

**MONTGOMERY WATSON LABORATORIES**

a Division of Montgomery Watson Americas, Inc.
 555 East Walnut Street
 Pasadena, California 91101
 Tel: 626 568 6400 Fax: 626 568 6324
 1 800 566 LABS (1 800 566 5227)

**Laboratory
 Report
 #52654**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/19/99	93994	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.0	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	113	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	90	% Rec		

MW-991-019 (990316194) Sampled on 03/16/99

	03/17/99	93820	(ML/SM2320B)	Alkalinity	257	mg/l	2.0	1
	03/23/99		(ML/SM1040)	Anion Sum	12.5	meq/l	0.0010	1
03/22/99	03/23/99	93978	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	128	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	12.1	meq/l	0.0010	1
	03/17/99	93661	(ML/EPA 300)	Chloride	130	mg/l	2.0	2
	03/23/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.406	mg/l	0.0010	1
03/22/99	03/24/99	93988	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/16/99	93535	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/22/99	93828	(ML/S2510B)	Specific Conductance	1110	umho/cm	4.0	1
03/22/99	03/24/99	93990	(EPA/ML 200.8)	Iron, Total, ICAP/MS	150	ug/l	100	1
	03/23/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	313	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	2.75	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	42.8	mg/l	1.0	1
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	48.6	mg/l	1.0	1
	03/17/99	93665	(ML/EPA 300.0)	Nitrate-N by IC	7.8	mg/l	0.20	2
03/22/99	03/24/99	93989	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/17/99	93559	(ML/SM 4500HB)	Lab pH	7.3	Units	0.0010	1

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**Laboratory
 Report
 #52654**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/17/99	93667	(ML/EPA 300.0)	Sulfate	150	mg/l	4.0	2
	03/22/99	94031	(ML/S2540C)	Total Dissolved Solid (TDS)	730	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/19/99	93994	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/19/99	93994	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/19/99	93994	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/19/99	93994	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.8	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	87	% Rec		

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Laboratory**Report****#52654**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-020 (990316195) Sampled on 03/16/99								
	03/17/99	93820	(ML/SM2320B)	Alkalinity	167	mg/l	2.0	1
	03/23/99		(ML/SM1040)	Anion Sum	8.61	meq/l	0.0010	1
03/22/99	03/23/99	93978	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	94.5	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	8.62	meq/l	0.0010	1
	03/17/99	93661	(ML/EPA 300)	Chloride	75	mg/l	2.0	2
	03/23/99		(ML/SM2320B)	Carbonate as CO ₃ , Calculated	0.105	mg/l	0.0010	1
03/22/99	03/24/99	93988	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/16/99	93535	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/22/99	93828	(ML/S2510B)	Specific Conductance	815	umho/cm	4.0	1
03/22/99	03/24/99	93990	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	03/23/99		(ML/SM2320B)	Bicarbonate as HCO ₃ , calculated	204	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	1.92	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	31.3	mg/l	1.0	1
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	29.1	mg/l	1.0	1
	03/17/99	93665	(ML/EPA 300.0)	Nitrate-N by IC	15	mg/l	0.20	2
03/22/99	03/24/99	93989	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/17/99	93559	(ML/SM 4500HB)	Lab pH	6.9	Units	0.0010	1
	03/17/99	93667	(ML/EPA 300.0)	Sulfate	100	mg/l	4.0	2
	03/22/99	94031	(ML/S2540C)	Total Dissolved Solid (TDS)	500	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/19/99	93994	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1

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**Laboratory
Report
#52654**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/19/99	93994	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/19/99	93994	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/19/99	93994	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.8	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/19/99	93994	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCE)	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.5	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Trichloroethylene (TCE)	20	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/19/99	93994	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	111	% Rec		
			(Surrogate)	4-Bromofluorobenzene	90	% Rec		
			(Surrogate)	Toluene-d8	92	% Rec		

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Laboratory
QC Report
#52654

Foster Wheeler Environmental, Inc

QC Batch #93535**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316189		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0497	99.4	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0491	98.2	(78.00 - 118.00)	1.2
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0491	98.2	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0497	99.4	(80.00 - 120.00)	1.2

QC Batch #93559**Lab pH**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0316195		(0.00 - 0.00)	

QC Batch #93661**Chloride**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0315386		(0.00 - 0.00)	
LCS1	Chloride	25	25.3	101.2	(90.00 - 110.00)	
LCS2	Chloride	25	25.3	101.2	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	27.2	108.8	(80.00 - 120.00)	
MSD	Chloride	25	26.2	104.8	(80.00 - 120.00)	3.7

QC Batch #93665**Nitrate-N by IC**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0315386		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.53	101.2	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.52	100.8	(90.00 - 110.00)	0.40
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.56	102.4	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.45	98.0	(80.00 - 120.00)	4.4

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Laboratory**QC Report****#52654**Foster Wheeler Environmental, Inc
(continued)**QC Batch #93667****Sulfate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0315386		(0.00 - 0.00)	
LCS1	Sulfate	50	50.3	100.6	(90.00 - 110.00)	
LCS2	Sulfate	50	50.3	100.6	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	54.5	109.0	(80.00 - 120.00)	
MSD	Sulfate	50	52.2	104.4	(80.00 - 120.00)	4.3

QC Batch #93820**Alkalinity**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0317433		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	98.8	102.7	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	94.8	98.5	(90.00 - 110.00)	4.1
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	86.0	89.4	(80.00 - 120.00)	
MSD	Alkalinity	96.2	86.0	89.4	(80.00 - 120.00)	0.00

QC Batch #93828**Specific Conductance**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0316195		(0.00 - 0.00)	

QC Batch #93978**Arsenic, Total, GF**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0311314		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0198	99.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0190	95.0	(85.00 - 115.00)	4.1
MBLK	Arsenic, Total, GF	ND				

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QC Report
#52654Foster Wheeler Environmental, Inc
(continued)

MS	Arsenic, Total, GF	0.020	0.0225	112.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0195	97.5	(70.00 - 130.00)	14

QC Batch #93988**Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0311314		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	108	108.0	(85.00 - 115.00)	9.7
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	103	103.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	101	101.0	(70.00 - 130.00)	2.0

QC Batch #93989**Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0311314		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	19.9	99.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	22.2	111.0	(85.00 - 115.00)	11
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	20.9	104.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	20.9	104.5	(70.00 - 130.00)	0.00

QC Batch #93990**Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0311314		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	486	97.2	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	525	105.0	(85.00 - 115.00)	7.7
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	516	103.2	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	499	99.8	(70.00 - 130.00)	3.3

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(continued)**QC Batch #93994****Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.85	96.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.82	95.5	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.90	97.5	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.12	103.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.92	98.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.73	93.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.79	94.8	(70.00 - 130.00)	1.6
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.70	92.5	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.94	98.5	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.02	100.5	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	6.91	86.4	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.69	92.2	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				

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QC Report
#52654

Foster Wheeler Environmental, Inc
(continued)

MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0316193		(0.00 - 0.00)	
LCS1	Benzene	4	3.91	97.8	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.72	93.0	(70.00 - 130.00)	
MSD	Benzene	4	3.67	91.8	(70.00 - 130.00)	1.4
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.93	98.2	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.63	90.8	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.65	91.2	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.55	88.8	(70.00 - 130.00)	2.8
LCS1	Carbon Tetrachloride	4	3.58	89.5	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.07	76.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.97	99.2	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane (Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.42	85.5	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.77	94.2	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	3.72	93.0	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	3.65	91.2	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	1.93	96.5	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

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QC Report

#52654

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(continued)

MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	7.76	97.0	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	3.66	91.5	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.77	94.2	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	3.55	88.8	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.69	92.2	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	102	102.0		
MS	1,2-dichloroethane-d4	100	111	111.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	112	112.0	(80.00 - 120.00)	0.90
LCS1	Toluene-d8	100	92.5	92.5	(80.00 - 120.00)	
MBLK	Toluene-d8	100	84.8	84.8		
MS	Toluene-d8	100	85.2	85.2	(80.00 - 120.00)	
MSD	Toluene-d8	100	85.6	85.6	(80.00 - 120.00)	0.47
LCS1	4-Bromofluorobenzene	100	98.2	98.2	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	105	105.0		
MS	4-Bromofluorobenzene	100	90.7	90.7	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	99.0	99.0	(80.00 - 120.00)	8.8
LCS1	trans-1,2-Dichloroethylene	4	3.77	94.2	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.70	92.5	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	3.94	98.5	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.24	106.0	(70.00 - 130.00)	7.3

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Laboratory**QC Report****#52654**Foster Wheeler Environmental, Inc
(continued)

LCS1	Trichlorotrifluoroethane (Freon)	2	2.26	113.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon)	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.72	93.0	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.61	90.2	(70.00 - 130.00)	
MSD	Toluene	4	3.45	86.2	(70.00 - 130.00)	4.5
LCS1	Vinyl chloride (VC)	2	1.86	93.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #93999**Calcium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.8	103.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	52.4	104.8	(85.00 - 115.00)	1.2
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	53.7	107.4	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	52.1	104.2	(70.00 - 130.00)	3.0

QC Batch #94003**Potassium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.3	101.5	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.4	102.0	(80.00 - 110.00)	0.49
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	21.2	106.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.9	104.5	(80.00 - 120.00)	1.4

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#52654

Foster Wheeler Environmental, Inc
(continued)**QC Batch #94005****Magnesium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	21.1	105.5	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	21.3	106.5	(85.00 - 115.00)	0.94
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	21.6	108.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	21.3	106.5	(70.00 - 130.00)	1.4

QC Batch #94009**Sodium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	50.9	101.8	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	51.1	102.2	(85.00 - 115.00)	0.39
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	51.7	103.4	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	50.8	101.6	(70.00 - 130.00)	1.8

QC Batch #94010**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0311311		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	19.9	99.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.2	101.0	(90.00 - 110.00)	1.5
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.5	102.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.1	105.5	(75.00 - 125.00)	2.9

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(continued)**QC Batch #94031****Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0315386		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	688	98.3	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

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Quality Environmental Analysis

April 9, 1999

Foster Wheeler Environmental
611 Anton Blvd, Suite 800
Costa Mesa, CA. 92626

Attention: Mark Cutler

Re: Report # 52729 (MW-991-112, MW-991-111, MW-991-072,
MW-991-071, MW-991-004, MW-991-005)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):

None

Samples requiring dilution (with increased MRL's):

MW-991-072 was diluted for Anions.

MW-991-004 was diluted for Perchlorate.

Method blanks with compounds detected:

None

Other Comments:

1,1-Dichloroethane was detected in MW-991-072

1,1-Dichloroethylene was detected in MW-991-004

Carbon Tetrachloride was detected in MW-991-072, -071, -004, -005

Chloroform was detected in MW-991-072, -071, -004, -005

Tetrachlorethylene was detected in MW-991-072, -071, -004

Trichloroethylene was detected in MW-991-072, -071, -004, -005

Perchlorate was detected in MW-991-072, -071, -004, -005

TIC's:

None

Method Variance:

None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

Laboratory
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

Southwest Service Center
4820 South Mill Avenue - Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Northern California Service Center
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0005-0001
Group#: 52729
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 03/17/99. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
990317428	MW-991-112	@EBASVOA	Water	03/17/99
990317429	MW-991-111	@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI CLO4	Water	03/17/99
990317430	MW-991-072	@EBASVOA CR-VI PB-EBAS CR-EBAS AS-EBAS TDS CATION1 ANION1 PH EC HCO3 CO3 ALK NO3 SO4 CL FE-MS K NA MG CA CLO4	Water	03/17/99
990317431	MW-991-071	@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI CLO4	Water	03/17/99
990317432	MW-991-004	@EBASVOA CR-VI PB-EBAS CR-EBAS AS-EBAS TDS CATION1 ANION1 PH EC HCO3 CO3 ALK NO3 SO4 CL FE-MS K NA MG CA CLO4	Water	03/17/99
990317433	MW-991-005	@EBASVOA CR-VI PB-EBAS CR-EBAS AS-EBAS TDS CATION1 ANION1 PH EC HCO3 CO3 ALK NO3 SO4 CL FE-MS K NA MG CA CLO4	Water	03/17/99

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-EBAS	Arsenic, Total, GF
CA	Calcium, Total, ICAP

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0005-0001
Group#: 52729
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-EBAS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-EBAS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)



52730

NUMBER 1242

TEMP - 6-12

B.D. - OK

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572.0268		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS											
PROJECT ADDRESS 4300 OAK GROVE DR. PASADENA CA				ANALYSES REQUIRED													
SAMPLER (Name) J. BRENNER		SAMPLER (Signature) J. BRENNER		14-DIOXANE NDMA													
LABORATORY MONTGOMERY WATSON LABS																	
REPORTS TO BE SENT TO M. L. MACK CUTLER																	
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL												
					WATER	SOIL	OTHER (Describe)										
MW 991-072	0930	3/17/94	2	2 x 10L	X			X	X								
MW 991-009	1415	↓	2	↓	X			X	X								
LABORATORY INSTRUCTIONS/COMMENTS LATELY IN QA/QC																	
RELINQUISHED BY (Signature) J. BRENNER		DATE 3-17-94	RECEIVED BY (Signature) M. L. MACK CUTLER		RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)									
COMPANY JPL		TIME 17:25	COMPANY M. L. MACK CUTLER		COMPANY		TIME	COMPANY									



52729

NUMBER 1241

TEMP - 6 - 12

BE - REG ICE STILL OK

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT <u>JPL</u>		OFS NO. <u>1572.0268</u>		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS											
PROJECT ADDRESS <u>4300 OAK GROVE DR. PASADENA CA</u>																	
SAMPLER (Name) <u>J. BRENNER</u>		SAMPLER (Signature) <u>J. Brenner</u>		ANALYSES REQUIRED													
LABORATORY <u>MONTGOMERY WATSON LABS</u>																	
REPORTS TO BE SENT TO <u>M. MALLER CULVER</u>																	
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (SW-2)	TOM As C, Pb (6000/7000)	MASS ANALYSIS + TDS	Hex C	C104	PC Encl C				
					WATER	SOIL	OTHER (Describe)										
MW 991-112	1500	3/17/99	2	2 x 40ml	X			X									
MW 991-111	1445		5	2 x 40ml 1 x 250ml 2 x 125ml	X			X	X		X	X					
MW 991-072	0930		6	2 x 40ml 1 x 250ml 2 x 125ml 1 x 500ml	X			X	X	X	X	X					
MW 991-071	0945		5	2 x 40ml 1 x 250ml 2 x 125ml	X			X	X		X	X					
MW 991-004	1320		6	2 x 40ml 1 x 250ml 2 x 125ml 1 x 500ml	X			X	X	X	X	X					
MW 991-005	1415		6		X			X	X	X	X	X	X				
LABORATORY INSTRUCTIONS/COMMENTS <u>Level IV QA/QC</u>																	
RELINQUISHED BY (Signature) <u>J. Brenner</u>		DATE <u>3-17-99</u>	RECEIVED BY (Signature) <u>M. M. M. M.</u>		RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)									
COMPANY <u>FW-NC</u>		TIME <u>17:25</u>	COMPANY <u>M.W.</u>		COMPANY		TIME	COMPANY									

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH

Date Received: 3-17-99

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 3-17-99

by (print) MARTIN L. DEMESA (sign) [Signature]

1. Did cooler come with shipping slip (air bill, etc.)?

Yes No

If YES, attach & enter carrier and air bill # here: DELIVERED BY CLIENT

2. Were custody seals on outside of cooler?

(OUTSIDE)

Yes No

If YES, how many & where: 2 LID OF COOLER

If Yes, enter the following: seal date: 3-17-99, seal name: J.B.

3. Were custody seals unbroken & intact at delivery?

Yes No

4. Were custody papers sealed in bag & taped to lid?

Yes No

5. Were custody papers filled out properly (ink, etc.)

Yes No

6. Did you sign custody papers in appropriate place?

Yes No

7. Was project identifiable from custody papers?

Yes No

8. Have designated person(s) initial to acknowledge receipt: MLD (date) 3-17-99

B. LOG-IN PHASE: Date samples were logged-in: 3-17-99 by:

(print) M. DE MESA (sign) [Signature]

9. Describe packing:

10. If required, was enough ice used?

Yes No

11. Were all bottles sealed in separate plastic bags?

Yes No

12. Did all bottles arrive unbroken/in good condition?

Yes No

13. Were all bottle labels complete (ID, date, sign, pres)?

Yes No

14. Did all bottle labels agree with custody papers?

Yes No

If NO, indicate discrepancies on back.

15. Were correct containers used for the analytes?

Yes No

16. Were correct preservatives used when required?

Yes No

17. Was sufficient amount of sample sent for tests?

Yes No

18. Bubbles absent in VOA vials?

Yes No

If NO, list by sample id on back.

19. Was Client Services informed of problems?

Yes No

Report Summary of positive results, PR52729

			Result	MDL	UNITS
Analyzed	990317428	MW-991-112			
Analyzed	990317429	MW-991-111			
Analyzed	990317430	MW-991-072			
03/20/99	1,1-Dichloroethane		0.5	.500	UGL
03/20/99	Carbon Tetrachloride		1.2	.500	UGL
03/20/99	Chloroform (Trichloromethane)		2.5	.500	UGL
03/20/99	Tetrachloroethylene (PCE)		0.6	.500	UGL
03/20/99	Trichloroethylene (TCE)		4.1	.500	UGL
03/17/99	Alkalinity		166	2.000	MGL
03/23/99	Anion Sum		7.38	.001	MEQL
03/23/99	Bicarbonate as HCO ₃ ,calculated		202	.001	MGL
03/24/99	Calcium, Total, ICAP		80.0	1.000	MGL
03/23/99	Carbonate as CO ₃ , Calculated		0.262	.001	MGL
03/24/99	Cation Sum		7.53	.001	MEQL
03/18/99	Chloride		65	2.000	MGL
03/24/99	Iron, Total, ICAP/MS		620	*****	UGL
03/22/99	Lab pH		7.3	.001	UNIT
03/24/99	Magnesium, Total, ICAP		27.7	1.000	MGL
03/18/99	Nitrate-N by IC		7.5	.200	MGL
03/23/99	Perchlorate		38	4.000	UGL
03/24/99	Potassium, Total, ICAP		2.37	1.000	MGL
03/24/99	Sodium, Total, ICAP		27.3	1.000	MGL
03/23/99	Specific Conductance		665	4.000	UMHO
03/18/99	Sulfate		81	4.000	MGL
03/24/99	Total Dissolved Solid (TDS)		410	10.000	MGL
Analyzed	990317431	MW-991-071			
03/20/99	Carbon Tetrachloride		1.5	.500	UGL
03/20/99	Chloroform (Trichloromethane)		2.9	.500	UGL
03/20/99	Tetrachloroethylene (PCE)		0.8	.500	UGL
03/20/99	Trichloroethylene (TCE)		5.0	.500	UGL
03/23/99	Perchlorate		38	4.000	UGL
Analyzed	990317432	MW-991-004			
03/20/99	1,1-Dichloroethylene		1.5	.500	UGL
03/20/99	Carbon Tetrachloride		30 E	.500	UGL
03/20/99	Chloroform (Trichloromethane)		6.6	.500	UGL
03/20/99	Tetrachloroethylene (PCE)		1.0	.500	UGL
03/20/99	Trichloroethylene (TCE)		3.0	.500	UGL
03/17/99	Alkalinity		129	2.000	MGL
03/23/99	Anion Sum		3.83	.001	MEQL
03/23/99	Bicarbonate as HCO ₃ ,calculated		156	.001	MGL
03/24/99	Calcium, Total, ICAP		24.6	1.000	MGL
03/23/99	Carbonate as CO ₃ , Calculated		3.21	.001	MGL
03/24/99	Cation Sum		3.88	.001	MEQL
03/18/99	Chloride		27	1.000	MGL
03/24/99	Iron, Total, ICAP/MS		1100	*****	UGL
03/22/99	Lab pH		8.5	.001	UNIT
03/24/99	Magnesium, Total, ICAP		10.9	1.000	MGL

03/18/99	Nitrate-N by IC	2.8	.100	MGL
03/24/99	Perchlorate	580	80.000	UGL
03/24/99	Potassium, Total, ICAP	2.58	1.000	MGL
03/24/99	Sodium, Total, ICAP	38.8	1.000	MGL
03/23/99	Specific Conductance	345	4.000	UMHO
03/18/99	Sulfate	14	2.000	MGL
03/24/99	Total Dissolved Solid (TDS)	210	10.000	MGL
Analyzed 990317433 MW-991-005				
03/20/99	Carbon Tetrachloride	1.0	.500	UGL
03/20/99	Chloroform (Trichloromethane)	0.8	.500	UGL
03/20/99	Trichloroethylene (TCE)	1.5	.500	UGL
03/17/99	Alkalinity	153	2.000	MGL
03/23/99	Anion Sum	4.08	.001	MEQL
03/23/99	Bicarbonate as HCO ₃ , calculated	186	.001	MGL
03/24/99	Calcium, Total, ICAP	41.7	1.000	MGL
03/23/99	Carbonate as CO ₃ , Calculated	0.960	.001	MGL
03/24/99	Cation Sum	4.21	.001	MEQL
03/18/99	Chloride	9.4	1.000	MGL
03/24/99	Iron, Total, ICAP/MS	950	*****	UGL
03/22/99	Lab pH	7.9	.001	UNIT
03/24/99	Magnesium, Total, ICAP	16.5	1.000	MGL
03/18/99	Nitrate-N by IC	1.3	.100	MGL
03/24/99	Perchlorate	14	4.000	UGL
03/24/99	Potassium, Total, ICAP	2.43	1.000	MGL
03/24/99	Sodium, Total, ICAP	16.3	1.000	MGL
03/23/99	Specific Conductance	360	4.000	UMHO
03/18/99	Sulfate	32	2.000	MGL
03/24/99	Total Dissolved Solid (TDS)	220	10.000	MGL



MONTGOMERY WATSON LABORATORIES

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street

Pasadena, California 91101

Tel: 626 568 6400 Fax: 626 568 6324

1 800 566 LABS (1 800 566 5227)

Laboratory Report

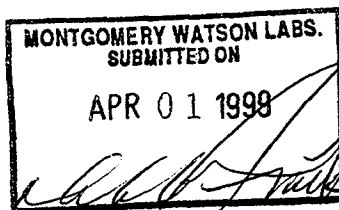
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714) 444-5560



DEB* Debbie Frank

Report#: 52729
JPL



MONTGOMERY WATSON LABORATORIES

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

**Report
Comments
#52729**

(990317432)

@EBASVOA

E indicates that the result is above the calibration curve. This sample is reanalyzed on 3/24/99 at 2.5 dilution for carbon tetrachloride but the result does not match the original run.

**MONTGOMERY WATSON LABORATORIES**

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555 East Walnut Street

Pasadena, California 91101

Tel: 626 568 6400 Fax: 626 568 6324

1 800 566 LABS (1 800 566 5227)

Laboratory**Report****#52729**

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
17-mar-1999 17:41:00

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-112 (990317428)				Sampled on 03/17/99				
Regulated VOCs plus Lists 1&3								
03/20/99	94008		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
03/20/99	94008		(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
03/20/99	94008		(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Pasadena, California 91101

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1 800 566 LABS (1 800 566 5227)

**Laboratory
Report
#52729**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/20/99	94008	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	117	% Rec		
			(Surrogate)	4-Bromofluorobenzene	92	% Rec		
			(Surrogate)	Toluene-d8	87	% Rec		

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Laboratory**Report****#52729**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-111 (990317429)				Sampled on 03/17/99				
03/22/99	03/23/99	93978	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	03/23/99	94010	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
03/22/99	03/24/99	93988	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/17/99	93633	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
03/22/99	03/24/99	93989	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
Regulated VOCs plus Lists 1&3								
	03/20/99	94008	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/20/99	94008	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/20/99	94008	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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**Laboratory
Report
#52729**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/20/99	94008	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	120	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		

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Laboratory**Report****#52729**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	89	% Rec		
MW-991-072 (990317430) Sampled on 03/17/99								
	03/17/99	93820	(ML/SM2320B)	Alkalinity	166	mg/l	2.0	1
	03/23/99		(ML/SM1040)	Anion Sum	7.38	meq/l	0.0010	1
03/22/99	03/23/99	93978	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	80.0	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	7.53	meq/l	0.0010	1
	03/18/99	93752	(ML/EPA 300)	Chloride	65	mg/l	2.0	2
	03/23/99	94010	(MOD/EPA 300)	Perchlorate	38	ug/l	4.0	1
	03/23/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.262	mg/l	0.0010	1
03/22/99	03/24/99	93988	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/17/99	93633	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/23/99	93920	(ML/S2510B)	Specific Conductance	665	umho/cm	4.0	1
03/22/99	03/24/99	93990	(EPA/ML 200.8)	Iron, Total, ICAP/MS	620	ug/l	100	1
	03/23/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	202	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	2.37	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	27.7	mg/l	1.0	1
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	27.3	mg/l	1.0	1
	03/18/99	93755	(ML/EPA 300.0)	Nitrate-N by IC	7.5	mg/l	0.20	2
03/22/99	03/24/99	93989	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/22/99	93886	(ML/SM 4500HB)	Lab pH	7.3	Units	0.0010	1
	03/18/99	93762	(ML/EPA 300.0)	Sulfate	81	mg/l	4.0	2
	03/24/99	94068	(ML/S2540C)	Total Dissolved Solid (TDS)	410	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/20/99	94008	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,1-Dichloroethane	0.5	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Laboratory
Report
#52729

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/20/99	94008	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/20/99	94008	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/20/99	94008	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Carbon Tetrachloride	1.2	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.5	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#52729****Foster Wheeler Environmental, Inc**
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/20/99	94008	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.6	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Trichloroethylene (TCE)	4.1	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	113	% Rec		
			(Surrogate)	4-Bromofluorobenzene	92	% Rec		
			(Surrogate)	Toluene-d8	87	% Rec		

MW-991-071 (990317431)**Sampled on 03/17/99**

03/22/99	03/23/99	93978	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	03/23/99	94010	(MOD/EPA 300)	Perchlorate	38	ug/l	4.0	1
03/22/99	03/24/99	93988	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/17/99	93633	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
03/22/99	03/24/99	93989	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1

Regulated VOCs plus Lists 1&3

03/20/99	94008	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1

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**Laboratory
Report
#52729**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/20/99	94008	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/20/99	94008	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/20/99	94008	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Carbon Tetrachloride	1.5	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.9	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1

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**Laboratory
Report
#52729**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/20/99	94008	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.8	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Trichloroethylene (TCE)	5.0	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	118	% Rec		
			(Surrogate)	4-Bromofluorobenzene	91	% Rec		
			(Surrogate)	Toluene-d8	83	% Rec		

MW-991-004 (990317432)**Sampled on 03/17/99**

	03/17/99	93820	(ML/SM2320B)	Alkalinity	129	mg/l	2.0	1
	03/23/99		(ML/SM1040)	Anion Sum	3.83	meq/l	0.0010	1
03/22/99	03/23/99	93978	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	24.6	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	3.88	meq/l	0.0010	1
	03/18/99	93752	(ML/EPA 300)	Chloride	27	mg/l	1.0	1
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	580	ug/l	80	20
	03/23/99		(ML/SM2320B)	Carbonate as CO3, Calculated	3.21	mg/l	0.0010	1
03/22/99	03/24/99	93988	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/17/99	93633	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/23/99	93920	(ML/S2510B)	Specific Conductance	345	umho/cm	4.0	1
03/22/99	03/24/99	93990	(EPA/ML 200.8)	Iron, Total, ICAP/MS	1100	ug/l	100	1
	03/23/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	156	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	2.58	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	10.9	mg/l	1.0	1

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**Laboratory
Report
#52729**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	38.8	mg/l	1.0	1
	03/18/99	93755	(ML/EPA 300.0)	Nitrate-N by IC	2.8	mg/l	0.10	1
03/22/99	03/24/99	93989	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/22/99	93886	(ML/SM 4500HB)	Lab pH	8.5	Units	0.0010	1
	03/18/99	93762	(ML/EPA 300.0)	Sulfate	14	mg/l	2.0	1
	03/24/99	94068	(ML/S2540C)	Total Dissolved Solid (TDS)	210	mg/l	10	1

Regulated VOCs plus Lists 1&3

03/20/99	94008	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,1-Dichloroethylene	1.5	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
03/20/99	94008	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
03/20/99	94008	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	Carbon Tetrachloride	30 E	ug/l	0.50	1
03/20/99	94008	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1

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Report
#52729**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/20/99	94008	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloroform (Trichloromethane)	6.6	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.0	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.0	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	111	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	90	% Rec		

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**Laboratory
Report
#52729**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-005 (990317433) Sampled on 03/17/99								
	03/17/99	93820	(ML/SM2320B)	Alkalinity	153	mg/l	2.0	1
	03/23/99		(ML/SM1040)	Anion Sum	4.08	meq/l	0.0010	1
03/22/99	03/23/99	93978	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	41.7	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	4.21	meq/l	0.0010	1
	03/18/99	93752	(ML/EPA 300)	Chloride	9.4	mg/l	1.0	1
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	14	ug/l	4.0	1
	03/23/99		(ML/SM2320B)	Carbonate as CO ₃ , Calculated	0.960	mg/l	0.0010	1
03/22/99	03/24/99	93988	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/17/99	93633	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/23/99	93920	(ML/S2510B)	Specific Conductance	360	umho/cm	4.0	1
03/22/99	03/24/99	93990	(EPA/ML 200.8)	Iron, Total, ICAP/MS	950	ug/l	100	1
	03/23/99		(ML/SM2320B)	Bicarbonate as HCO ₃ , calculated	186	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	2.43	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	16.5	mg/l	1.0	1
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	16.3	mg/l	1.0	1
	03/18/99	93755	(ML/EPA 300.0)	Nitrate-N by IC	1.3	mg/l	0.10	1
03/22/99	03/24/99	93989	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/22/99	93886	(ML/SM 4500HB)	Lab pH	7.9	Units	0.0010	1
	03/18/99	93762	(ML/EPA 300.0)	Sulfate	32	mg/l	2.0	1
	03/24/99	94068	(ML/S2540C)	Total Dissolved Solid (TDS)	220	mg/l	10	1
Regulated VOCs plus Lists 1&3								
03/20/99	94008		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
03/20/99	94008		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Report
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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/20/99	94008	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/20/99	94008	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/20/99	94008	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Carbon Tetrachloride	1.0	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.8	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#52729**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/20/99	94008	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.5	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/20/99	94008	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	88	% Rec		

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Laboratory

QC Report

#52729

Foster Wheeler Environmental, Inc

QC Batch #93633**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0317433		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0497	99.4	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0491	98.2	(78.00 - 118.00)	1.2
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0497	99.4	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0497	99.4	(80.00 - 120.00)	0.00

QC Batch #93752**Chloride**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0317432		(0.00 - 0.00)	
LCS1	Chloride	25	24.9	99.6	(90.00 - 110.00)	
LCS2	Chloride	25	25.0	100.0	(90.00 - 110.00)	0.40
MBLK	Chloride	ND				
MS	Chloride	25	26.0	104.0	(80.00 - 120.00)	
MSD	Chloride	25	26.1	104.4	(80.00 - 120.00)	0.38

QC Batch #93755**Nitrate-N by IC**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0317432		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.52	100.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.52	100.8	(90.00 - 110.00)	0.00
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.59	103.6	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.60	104.0	(80.00 - 120.00)	0.39

QC Batch #93762**Sulfate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0317432		(0.00 - 0.00)	
LCS1	Sulfate	50	49.6	99.2	(90.00 - 110.00)	
LCS2	Sulfate	50	49.9	99.8	(90.00 - 110.00)	0.60

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Laboratory**QC Report****#52729**Foster Wheeler Environmental, Inc
(continued)

MBLK	Sulfate	ND				
MS	Sulfate	50	51.9	103.8	(80.00 - 120.00)	
MSD	Sulfate	50	52.0	104.0	(80.00 - 120.00)	0.19

QC Batch #93820**Alkalinity**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0317433		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	98.8	102.7	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	94.8	98.5	(90.00 - 110.00)	4.1
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	86.0	89.4	(80.00 - 120.00)	
MSD	Alkalinity	96.2	86.0	89.4	(80.00 - 120.00)	0.00

QC Batch #93886**Lab pH**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0319305		(0.00 - 0.00)	

QC Batch #93920**Specific Conductance**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0318767		(0.00 - 0.00)	

QC Batch #93978**Arsenic, Total, GF**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0311314		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0198	99.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0190	95.0	(85.00 - 115.00)	4.1
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0225	112.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0195	97.5	(70.00 - 130.00)	14

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Laboratory

QC Report

#52729

Foster Wheeler Environmental, Inc
(continued)**QC Batch #93988****Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0311314		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	108	108.0	(85.00 - 115.00)	9.7
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	103	103.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	101	101.0	(70.00 - 130.00)	2.0

QC Batch #93989**Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0311314		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	19.9	99.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	22.2	111.0	(85.00 - 115.00)	11
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	20.9	104.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	20.9	104.5	(70.00 - 130.00)	0.00

QC Batch #93990**Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0311314		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	486	97.2	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	525	105.0	(85.00 - 115.00)	7.7
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	516	103.2	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	499	99.8	(70.00 - 130.00)	3.3

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QC Report
#52729

Foster Wheeler Environmental, Inc
(continued)

QC Batch #93999**Calcium, Total, ICAP**

QC	Analyte	Spiked Lab #	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	99	0316191		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.8	103.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	52.4	104.8	(85.00 - 115.00)	1.2
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	53.7	107.4	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	52.1	104.2	(70.00 - 130.00)	3.0

QC Batch #94003**Potassium, Total, ICAP**

QC	Analyte	Spiked Lab #	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	99	0316191		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.3	101.5	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.4	102.0	(80.00 - 110.00)	0.49
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	21.2	106.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.9	104.5	(80.00 - 120.00)	1.4

QC Batch #94005**Magnesium, Total, ICAP**

QC	Analyte	Spiked Lab #	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	99	0316191		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	21.1	105.5	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	21.3	106.5	(85.00 - 115.00)	0.94
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	21.6	108.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	21.3	106.5	(70.00 - 130.00)	1.4

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Laboratory

QC Report

#52729

Foster Wheeler Environmental, Inc
(continued)

QC Batch #94008

Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.78	94.5	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.61	90.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.92	98.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.11	102.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.65	91.2	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.73	93.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.79	94.8	(70.00 - 130.00)	1.6
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.53	88.2	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.21	105.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.61	90.2	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	6.39	79.9	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.53	88.2	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				

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**Laboratory
QC Report
#52729****Foster Wheeler Environmental, Inc
(continued)**

MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0316193		(0.00 - 0.00)	
LCS1	Benzene	4	3.69	92.2	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.72	93.0	(70.00 - 130.00)	
MSD	Benzene	4	3.67	91.8	(70.00 - 130.00)	1.4
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.63	90.8	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.46	86.5	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.65	91.2	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.55	88.8	(70.00 - 130.00)	2.8
LCS1	Carbon Tetrachloride	4	3.65	91.2	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	2.82	70.5	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.91	97.8	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane (Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.24	81.0	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.73	93.2	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	3.55	88.8	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	3.35	83.8	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	2.07	103.5	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

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1 800 566 LABS (1 800 566 5227)

Laboratory

QC Report

#52729

Foster Wheeler Environmental, Inc
(continued)

MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	7.14	89.2	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	3.46	86.5	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.66	91.5	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	3.37	84.2	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.37	84.2	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	110	110.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	101	101.0		
MS	1,2-dichloroethane-d4	100	111	111.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	112	112.0	(80.00 - 120.00)	0.90
LCS1	Toluene-d8	100	91.5	91.5	(80.00 - 120.00)	
MBLK	Toluene-d8	100	85.4	85.4		
MS	Toluene-d8	100	85.2	85.2	(80.00 - 120.00)	
MSD	Toluene-d8	100	85.6	85.6	(80.00 - 120.00)	0.47
LCS1	4-Bromofluorobenzene	100	95.4	95.4	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	99.0	99.0		
MS	4-Bromofluorobenzene	100	90.7	90.7	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	99.0	99.0	(80.00 - 120.00)	8.8
LCS1	trans-1,2-Dichloroethylene	4	4.10	102.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.42	85.5	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	3.94	98.5	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.24	106.0	(70.00 - 130.00)	7.3

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

**MONTGOMERY WATSON LABORATORIES**

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street

Pasadena, California 91101

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**Laboratory
QC Report
#52729**Foster Wheeler Environmental, Inc
(continued)

LCS1	Trichlorotrifluoroethane (Freon)	4	4.82	120.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon)	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.63	90.8	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.61	90.2	(70.00 - 130.00)	
MSD	Toluene	4	3.45	86.2	(70.00 - 130.00)	4.5
LCS1	Vinyl chloride (VC)	2	1.82	91.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #94009**Sodium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	50.9	101.8	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	51.1	102.2	(85.00 - 115.00)	0.39
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	51.7	103.4	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	50.8	101.6	(70.00 - 130.00)	1.8

QC Batch #94010**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0311311		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	19.9	99.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.2	101.0	(90.00 - 110.00)	1.5
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.5	102.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.1	105.5	(75.00 - 125.00)	2.9

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

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Laboratory

QC Report

#52729

Foster Wheeler Environmental, Inc
(continued)**QC Batch #94011****Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0319303		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	19.8	99.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.4	97.0	(90.00 - 110.00)	2.0
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.8	104.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.1	105.5	(75.00 - 125.00)	1.4

QC Batch #94068**Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0320008		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	166	94.9	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	674	96.3	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

**MONTGOMERY WATSON LABORATORIES**

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Quality Environmental Analysis

April 7, 1999

REVISED
4/9/99

Foster Wheeler Environmental
611 Anton Blvd, Suite 800
Costa Mesa, CA. 92626

Attention: Mark Cutler

Re: Report # 52757 (MW-991-113, MW-991-114, MW-991-038,
MW-991-040, MW-991-003)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. This letter is revised. Please file with the original report submitted. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):

None

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Other Comments:

MW-991-040 is reported with this report group. The original letter indicated that MW-991-040 was not reported with this report group due to loss of sample in storage. This MW-991-040 is a re-sample because the original vials submitted were broken in storage prior to analysis.

Analytes:

Chloroform was detected in sample ID: MW-991-114, -038

Dichloromethane was detected in sample ID: MW-991-114

Trichloroethylene was detected in sample ID: MW-991-038

Perchlorate was detected in sample ID: MW-991-038

Arsenic was detected in sample ID: MW-991-003

Chromium was detected in sample ID: MW-991-003

TIC's:

None

Method Variance:

None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

Laboratory
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

Southwest Service Center
4820 South Mill Avenue - Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Northern California Service Center
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0005-0001
Group#: 52757
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 03/18/99. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
990318763	MW-991-113	@EBASVOA	Water	03/18/99
990318764	MW-991-114	@EBASVOA CLO4 CR-VI	Water AS-EBAS CR-EBAS PB-EBAS	03/18/99
990318765	MW-991-038	@EBASVOA CR-VI TDS CATION1 CO3 ALK K NA	Water PB-EBAS CR-EBAS AS-EBAS ANION1 PH EC NO3 SO4 CL MG CA CLO4	03/18/99
990318766	MW-991-040	@EBASVOA	Water	03/18/99
990318767	MW-991-003	@EBASVOA CR-VI TDS CATION1 CO3 ALK K NA	Water PB-EBAS CR-EBAS AS-EBAS ANION1 PH EC NO3 SO4 CL MG CA CLO4	03/18/99

Test Acronym Description

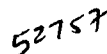
Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-EBAS	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-EBAS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0005-0001
Group#: 52757
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-EBAS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)



NUMBER 14

TEMP. 5-11

D. D. 2 RICE OK

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF

[illegible]

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSENCH Date Received: 3-18-99
 Use other side of this form to note further details concerning check-in problems
 and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 3-18-99
 by (print) M. DE MESA (sign) _____

1. Did cooler come with shipping slip (air bill, etc.)? Yes No
 If YES, attach & enter carrier and air bill # here: DEL BY AIRBNT

2. Were custody seals on outside of cooler? Yes No
 If YES, how many & where: 2 OUTSIDE LID OF COOLER
 If Yes, enter the following: seal date: 3-18-99, seal name: J. B.

3. Were custody seals unbroken & intact at delivery? Yes No

4. Were custody papers sealed in bag & taped to lid? Yes No

5. Were custody papers filled out properly (ink, etc.)? Yes No

6. Did you sign custody papers in appropriate place? Yes No

7. Was project identifiable from custody papers? Yes No

8. Have designated person(s) initial to acknowledge receipt: 3-18-99 (date)
MLD

B. LOG-IN PHASE: Date samples were logged-in: 3-18-99 by: _____
 (print) M. DE MESA (sign) _____

9. Describe packing: _____

10. If required, was enough ice used? Yes No

11. Were all bottles sealed in separate plastic bags? Yes No

12. Did all bottles arrive unbroken/in good condition? Yes No

13. Were all bottle labels complete (ID, date, sign, pres)? Yes No

14. Did all bottle labels agree with custody papers?
 If NO, indicate discrepancies on back. Yes No

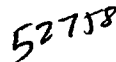
15. Were correct containers used for the analytes? Yes No

16. Were correct preservatives used when required? Yes No

17. Was sufficient amount of sample sent for tests? Yes No

18. Bubbles absent in VOA vials?
 If NO, list by sample id on back. Yes No

19. Was Client Services informed of problems? Yes No



TEMP - 5-11
B-I = OK

PAGE \ OF \

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

[illegible]

Report Summary of positive results, PR52757

		Result	MDL	UNITS
Analyzed	990318763 MW-991-113			
Analyzed	990318764 MW-991-114			
03/24/99	Chloroform (Trichloromethane)	2.6	.500	UGL
03/24/99	Dichloromethane	0.5	.500	UGL
Analyzed	990318765 MW-991-038			
03/24/99	Chloroform (Trichloromethane)	3.8	.500	UGL
03/24/99	Trichloroethylene (TCE)	1.6	.500	UGL
03/26/99	Alkalinity	157	2.000	MGL
03/31/99	Anion Sum	4.09	.001	MEQL
03/31/99	Bicarbonate as HCO ₃ ,calculated	191	.001	MGL
03/24/99	Calcium, Total, ICAP	40.1	1.000	MGL
03/31/99	Carbonate as CO ₃ , Calculated	1.24	.001	MGL
03/24/99	Cation Sum	4.21	.001	MEQL
03/19/99	Chloride	9.0	1.000	MGL
03/24/99	Iron, Total, ICAP/MS	1200	*****	UGL
03/22/99	Lab pH	8.0	.001	UNIT
03/24/99	Magnesium, Total, ICAP	16.4	1.000	MGL
03/19/99	Nitrate-N by IC	1.0	.100	MGL
03/24/99	Perchlorate	4.2	4.000	UGL
03/24/99	Potassium, Total, ICAP	1.85	1.000	MGL
03/24/99	Sodium, Total, ICAP	18.6	1.000	MGL
03/23/99	Specific Conductance	355	4.000	UMHO
03/19/99	Sulfate	30	2.000	MGL
03/25/99	Total Dissolved Solid (TDS)	210	10.000	MGL
Analyzed	990318766 MW-991-040			
Analyzed	990318767 MW-991-003			
03/26/99	Alkalinity	162	2.000	MGL
03/31/99	Anion Sum	4.47	.001	MEQL
03/23/99	Arsenic, Total, GF	0.0060	.005	MGL
03/31/99	Bicarbonate as HCO ₃ ,calculated	197	.001	MGL
03/24/99	Calcium, Total, ICAP	36.2	1.000	MGL
03/31/99	Carbonate as CO ₃ , Calculated	0.808	.001	MGL
03/24/99	Cation Sum	4.51	.001	MEQL
03/19/99	Chloride	26	1.000	MGL
03/24/99	Chromium, Total, ICAP/MS	13	10.000	UGL
03/24/99	Iron, Total, ICAP/MS	5200	*****	UGL
03/22/99	Lab pH	7.8	.001	UNIT
03/24/99	Magnesium, Total, ICAP	12.2	1.000	MGL
03/19/99	Nitrate-N by IC	2.0	.100	MGL
03/24/99	Potassium, Total, ICAP	1.90	1.000	MGL
03/24/99	Sodium, Total, ICAP	37.8	1.000	MGL
03/23/99	Specific Conductance	390	4.000	UMHO
03/19/99	Sulfate	17	2.000	MGL
03/25/99	Total Dissolved Solid (TDS)	240	10.000	MGL



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Laboratory Report

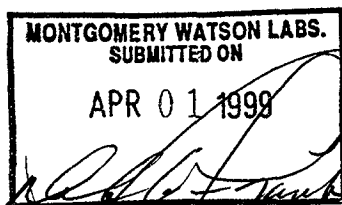
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714) 444-5560



DEB* Debbie Frank

Report#: 52757
JPL

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**Laboratory
Report
#52757**

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
18-mar-1999 16:35:48

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-113 (990318763)			Sampled on 03/18/99					
Regulated VOCs plus Lists 1&3								
03/24/99	94289	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1	
03/24/99	94289	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1	
03/24/99	94289	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1	

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Pasadena, California 91101

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**Laboratory
Report
#52757**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/24/99	94289	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

**MONTGOMERY WATSON LABORATORIES**

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street

Pasadena, California 91101

Tel: 626 568 6400 Fax: 626 568 6324

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Laboratory**Report****#52757**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-114 (990318764)				Sampled on 03/18/99				
03/22/99	03/23/99	93978	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
03/22/99	03/24/99	93988	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/18/99	93729	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
03/22/99	03/24/99	93989	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
Regulated VOCs plus Lists 1&3								
	03/24/99	94289	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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**Laboratory
Report
#52757**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/24/99	94289	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.6	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichloromethane	0.5	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	106	% Rec		
			(Surrogate)	4-Bromofluorobenzene	104	% Rec		

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Laboratory**Report****#52757**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	98	% Rec		
MW-991-038 (990318765) Sampled on 03/18/99								
	03/26/99	94205	(ML/SM2320B)	Alkalinity	157	mg/l	2.0	1
	03/31/99		(ML/SM1040)	Anion Sum	4.09	meq/l	0.0010	1
03/22/99	03/23/99	93978	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	40.1	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	4.21	meq/l	0.0010	1
	03/19/99	93913	(ML/EPA 300)	Chloride	9.0	mg/l	1.0	1
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	4.2	ug/l	4.0	1
	03/31/99		(ML/SM2320B)	Carbonate as CO3, Calculated	1.24	mg/l	0.0010	1
03/22/99	03/24/99	93988	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/18/99	93729	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/23/99	93920	(ML/S2510B)	Specific Conductance	355	umho/cm	4.0	1
03/22/99	03/24/99	93990	(EPA/ML 200.8)	Iron, Total, ICAP/MS	1200	ug/l	100	1
	03/31/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	191	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	1.85	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	16.4	mg/l	1.0	1
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	18.6	mg/l	1.0	1
	03/19/99	93915	(ML/EPA 300.0)	Nitrate-N by IC	1.0	mg/l	0.10	1
03/22/99	03/24/99	93989	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/22/99	93886	(ML/SM 4500HB)	Lab pH	8.0	Units	0.0010	1
	03/19/99	93916	(ML/EPA 300.0)	Sulfate	30	mg/l	2.0	1
	03/25/99	94227	(ML/S2540C)	Total Dissolved Solid (TDS)	210	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/24/99	94289	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#52757**

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.8	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#52757**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/24/99	94289	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.6	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

MW-991-040 (990318766)

Sampled on 03/18/99

Regulated VOCs plus Lists 1&3

03/24/99	94289	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/24/99	94289	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1

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Laboratory**Report****#52757****Foster Wheeler Environmental, Inc**
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/24/99	94289	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		
MW-991-003 (990318767) Sampled on 03/18/99								
	03/26/99	94205	(ML/SM2320B)	Alkalinity	162	mg/l	2.0	1
	03/31/99		(ML/SM1040)	Anion Sum	4.47	meq/l	0.0010	1
03/22/99	03/23/99	93978	(S3113B/E200.9)	Arsenic, Total, GF	0.0060	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	36.2	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	4.51	meq/l	0.0010	1
	03/19/99	93913	(ML/EPA 300)	Chloride	26	mg/l	1.0	1
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/31/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.808	mg/l	0.0010	1
03/22/99	03/24/99	93988	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	13	ug/l	10	1
	03/18/99	93729	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/23/99	93920	(ML/S2510B)	Specific Conductance	390	umho/cm	4.0	1
03/22/99	03/24/99	93990	(EPA/ML 200.8)	Iron, Total, ICAP/MS	5200	ug/l	500	5
	03/31/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	197	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	1.90	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	12.2	mg/l	1.0	1
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	37.8	mg/l	1.0	1
	03/19/99	93915	(ML/EPA 300.0)	Nitrate-N by IC	2.0	mg/l	0.10	1
03/22/99	03/24/99	93989	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/22/99	93886	(ML/SM 4500HB)	Lab pH	7.8	Units	0.0010	1
	03/19/99	93916	(ML/EPA 300.0)	Sulfate	17	mg/l	2.0	1

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**Laboratory
Report
#52757**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/25/99	94227	(ML/S2540C)	Total Dissolved Solid (TDS)	240	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/24/99	94289	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1

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Laboratory**Report****#52757**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/24/99	94289	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	102	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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QC Report
#52757**

Foster Wheeler Environmental, Inc

QC Batch #93729**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0318765		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0500	100.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0500	100.0	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0494	98.8	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0494	98.8	(80.00 - 120.00)	0.00

QC Batch #93886**Lab pH**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0319305		(0.00 - 0.00)	

QC Batch #93913**Chloride**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0318767		(0.00 - 0.00)	
LCS1	Chloride	25	24.1	96.4	(90.00 - 110.00)	
LCS2	Chloride	25	24.8	99.2	(90.00 - 110.00)	2.9
MBLK	Chloride	ND				
MS	Chloride	25	25.6	102.4	(80.00 - 120.00)	
MSD	Chloride	25	25.5	102.0	(80.00 - 120.00)	0.39

QC Batch #93915**Nitrate-N by IC**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0318767		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.44	97.6	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.52	100.8	(90.00 - 110.00)	3.2
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.54	101.6	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.53	101.2	(80.00 - 120.00)	0.39

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

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Laboratory**QC Report****#52757**Foster Wheeler Environmental, Inc
(continued)**QC Batch #93916****Sulfate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0318767		(0.00 - 0.00)	
LCS1	Sulfate	50	48.3	96.6	(90.00 - 110.00)	
LCS2	Sulfate	50	49.7	99.4	(90.00 - 110.00)	2.9
MBLK	Sulfate	ND				
MS	Sulfate	50	52.3	104.6	(80.00 - 120.00)	
MSD	Sulfate	50	52.3	104.6	(80.00 - 120.00)	0.00

QC Batch #93920**Specific Conductance**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0318767		(0.00 - 0.00)	

QC Batch #93978**Arsenic, Total, GF**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0311314		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0198	99.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0190	95.0	(85.00 - 115.00)	4.1
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0225	112.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0195	97.5	(70.00 - 130.00)	14

QC Batch #93988**Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0311314		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	108	108.0	(85.00 - 115.00)	9.7
MBLK	Chromium, Total, ICAP/MS	ND				

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**Laboratory
QC Report
#52757**Foster Wheeler Environmental, Inc
(continued)

MS	Chromium, Total, ICAP/MS	100	103	103.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	101	101.0	(70.00 - 130.00)	2.0

QC Batch #93989**Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0311314		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	19.9	99.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	22.2	111.0	(85.00 - 115.00)	11
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	20.9	104.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	20.9	104.5	(70.00 - 130.00)	0.00

QC Batch #93990**Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0311314		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	486	97.2	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	525	105.0	(85.00 - 115.00)	7.7
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	516	103.2	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	499	99.8	(70.00 - 130.00)	3.3

QC Batch #93999**Calcium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.8	103.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	52.4	104.8	(85.00 - 115.00)	1.2
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	53.7	107.4	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	52.1	104.2	(70.00 - 130.00)	3.0

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QC Report

#52757

Foster Wheeler Environmental, Inc
(continued)**QC Batch #94003****Potassium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.3	101.5	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.4	102.0	(80.00 - 110.00)	0.49
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	21.2	106.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.9	104.5	(80.00 - 120.00)	1.4

QC Batch #94005**Magnesium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	21.1	105.5	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	21.3	106.5	(85.00 - 115.00)	0.94
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	21.6	108.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	21.3	106.5	(70.00 - 130.00)	1.4

QC Batch #94009**Sodium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	50.9	101.8	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	51.1	102.2	(85.00 - 115.00)	0.39
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	51.7	103.4	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	50.8	101.6	(70.00 - 130.00)	1.8

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

**MONTGOMERY WATSON LABORATORIES**

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#52757

Foster Wheeler Environmental, Inc
(continued)

QC Batch #94011**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0319303		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	19.8	99.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.4	97.0	(90.00 - 110.00)	2.0
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.8	104.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.1	105.5	(75.00 - 125.00)	1.4

QC Batch #94205**Alkalinity**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0318765		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	98.1	102.0	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	98.0	101.9	(90.00 - 110.00)	0.10
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	87.0	90.4	(80.00 - 120.00)	
MSD	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	2.3

QC Batch #94227**Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0319174		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	688	98.3	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

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Laboratory

QC Report

#52757

Foster Wheeler Environmental, Inc
(continued)

QC Batch #94289

Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.85	96.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.80	95.0	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.52	88.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.96	99.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.50	87.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.45	86.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.66	91.5	(70.00 - 130.00)	5.9
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.82	95.5	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.61	90.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.89	97.2	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	6.86	85.8	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.13	103.2	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				

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**Laboratory
QC Report
#52757****Foster Wheeler Environmental, Inc
(continued)**

MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0323257		(0.00 - 0.00)	
LCS1	Benzene	4	3.62	90.5	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.49	87.2	(70.00 - 130.00)	
MSD	Benzene	4	3.96	99.0	(70.00 - 130.00)	13
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.73	93.2	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.82	95.5	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.58	89.5	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.90	97.5	(70.00 - 130.00)	8.6
LCS1	Carbon Tetrachloride	4	3.89	97.2	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	6.34	79.2	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	4.02	100.5	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane (Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.67	91.8	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.84	96.0	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	3.48	87.0	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	3.71	92.8	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	1.83	91.5	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

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Laboratory

QC Report

#52757

Foster Wheeler Environmental, Inc
(continued)

MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	7.82	97.8	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	3.73	93.2	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.82	95.5	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	3.93	98.2	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.85	96.2	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	99.3	99.3	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	96.0	96.0		
MS	1,2-dichloroethane-d4	100	101	101.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 120.00)	3.9
LCS1	Toluene-d8	100	99.6	99.6	(80.00 - 120.00)	
MBLK	Toluene-d8	100	99.0	99.0		
MS	Toluene-d8	100	95.7	95.7	(80.00 - 120.00)	
MSD	Toluene-d8	100	101	101.0	(80.00 - 120.00)	5.4
LCS1	4-Bromofluorobenzene	100	105	105.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	112	112.0		
MS	4-Bromofluorobenzene	100	98.4	98.4	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	98.0	98.0	(80.00 - 120.00)	0.41
LCS1	trans-1,2-Dichloroethylene	4	3.86	96.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.85	96.2	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	3.67	91.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.85	96.2	(70.00 - 130.00)	4.8

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**Laboratory
QC Report
#52757**Foster Wheeler Environmental, Inc
(continued)

LCS1	Trichlorotrifluoroethane (Freon	2	2.12	106.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane (Freon	ND			
MBLK	trans-1,3-Dichloropropene	ND			
LCS1	Toluene	4	3.62	90.5	(70.00 - 130.00)
MBLK	Toluene	ND			
MS	Toluene	4	3.68	92.0	(70.00 - 130.00)
MSD	Toluene	4	3.79	94.8	(70.00 - 130.00) 2.9
LCS1	Vinyl chloride (VC)	2	1.86	93.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			

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MONTGOMERY WATSON LABORATORIES

A division of Montgomery Watson Americas, Inc.

Quality Environmental Analysis

April 9, 1999

Foster Wheeler Environmental
611 Anton Blvd, Suite 800
Costa Mesa, CA. 92626

Attention: Mark Cutler

Re: Report # 52812 (MW-991-115, MW-991-049, MW-991-048,
MW-991-065, MW-991-200, MW-991-041)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):

None

Samples requiring dilution (with increased MRL's):

MW-991-041 and -065 were diluted for VOCs, Perchlorate and Anions.

MW-991-048 was diluted for VOCs.

MW-991-049 was diluted for VOCs and Anions.

Method blanks with compounds detected:

None

Other Comments:

1,1-Dichloroethylene was detected in MW-991-049, -048, -065, -041

1,2-Dichloroethane was detected in MW-991-049, -048, -041

Carbon Tetrachloride was detected in MW-991-049, -048, -065, -041

Chloroform was detected in MW-991-049, -048, -065, -200, -041

Tetrachloroethylene was detected in MW-991-065, -041

Trichloroethylene was detected in MW-991-049, -048, -065, -041

Trichlorotrifluoroethane was detected in MW-991-065, -041

Chromium was detected in MW-991-049, -048, -041

Hexavalent Chrome was detected in MW-991-049, -048, -041

Perchlorate was detected in MW-991-049, -048, -065, -041

TIC's:

None

Method Variance:

None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

Laboratory
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

Southwest Service Center
4820 South Mill Avenue - Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Northern California Service Center
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0005-0001
Group#: 52812
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 03/19/99. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
990319300	MW-991-115	@EBASVOA	Water	03/19/99
990319301	MW-991-049	@EBASVOA CR-VI PB-EBAS CR-EBAS AS-EBAS TDS CATION1 ANION1 PH EC HCO3 CO3 ALK NO3 SO4 CL FE-MS K NA MG CA CLO4	Water	03/19/99
990319302	MW-991-048	@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI CLO4	Water	03/19/99
990319303	MW-991-065	@EBASVOA CR-VI PB-EBAS CR-EBAS AS-EBAS TDS CATION1 ANION1 PH EC HCO3 CO3 ALK NO3 SO4 CL FE-MS K NA MG CA CLO4	Water	03/19/99
990319304	MW-991-200	@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI CLO4	Water	03/19/99
990319305	MW-991-041	@EBASVOA CR-VI PB-EBAS CR-EBAS AS-EBAS TDS CATION1 ANION1 PH EC HCO3 CO3 ALK NO3 SO4 CL FE-MS K NA MG CA CLO4	Water	03/19/99

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-EBAS	Arsenic, Total, GF
CA	Calcium, Total, ICAP

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0005-0001
Group#: 52812
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-EBAS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-EBAS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)



FOSTER WHEELER ENVIRONMENTAL CORPORATION

52813

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT <u>JPL</u>		OFS NO. <u>1572.0268</u>		HAZARD IDENTIFICATION		TIME REQUIRED			
PROJECT ADDRESS <u>4800 OAK GILGATE DR PASADENA CA</u>				Non Hazard ☒ Reactive ☐		NORMAL ☒ DAYS			
				Flammable ☐ Toxic ☐		RUSH ☐ DAYS			
SAMPLER (Name) <u>J. BRENNER</u>				SAMPLER (Signature) <u>J. B.</u>		ANALYSES REQUIRED			
LABORATORY <u>MONZOMERY WATSON</u>				REPORTS TO BE SENT TO <u>M.D. MARK CUTLER</u>		14-DIGIT 24			
SAMPLE NUMBER		TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)			SAMPLE MATERIAL	
								WATER	SOIL
								OTHER (Describe)	
MW 991-049		1035	3/19/99	2	2 x 1.0L	X			
MW 991-049113		1035		1	1 x 1.0L	X			
MW 991-049113		1035		1	1 x 1.0L	X			
MW 991-065		1540		2	2 x 1.0L	X	X		
MW 991-091		1730		2	2	X	X		
LABORATORY INSTRUCTIONS/COMMENTS <u>LEVEL IV QA/QC</u>									
RELINQUISHED BY (Signature) <u>[Signature]</u>		DATE <u>3-19-99</u>	RECEIVED BY (Signature) <u>M. DE MESA</u>		RELINQUISHED BY (Signature) <u>[Signature]</u>		DATE <u>3-19-99</u>		
COMPANY <u>[Signature]</u>		TIME <u>10:00</u>	COMPANY <u>M.W.</u>		COMPANY <u>[Signature]</u>		COMPANY <u>[Signature]</u>		



NUMBER 1247

52812

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

TEMP. 6-9

B.D. - REC 100
OK

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572.0265		HAZARD IDENTIFICATION		TIME REQUIRED										
PROJECT ADDRESS 4000 OAKGLEN DR. PASADENA CA		SAMPLER (Name) J. B. ENNIS		SAMPLER (Signature) [Signature]		Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐										
LABORATORY MONTGOMERY WATSON LABS		REPORTS TO BE SENT TO MR. MARIC C-201		ANALYSES REQUIRED		NORMAL ☒ DAYS RUSH ☐ DAYS										
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOC (521)	TOTAL A.C. PC (4001)	MTA SULFONAMIDES (1001)	HEX C.	PHE C.	C6 C.			
					WATER	SOIL	OTHER (Describe)									
MW 991-115	0900	3/19/91	2	2x40ml	X			X								
MW 991-049	1035		6	2x40ml 1x25ml 2x125ml 1x25ml	X			X	X	X	X	X				
MW 991-045	1045		5	2x40ml 1x25ml 2x125ml	X			X	X		X	X				
MW 991-065	1540		6	2x40ml 1x25ml 2x125ml 1x25ml	X			X	X	X	X	X				
MW 991-200	1545		5	2x40ml 1x25ml 2x125ml	X			X	X		X	X				
MW 991-041	1730		6	2x40ml 1x25ml 2x125ml 1x25ml	X			X	X	X	X	X	X			
LABORATORY INSTRUCTIONS/COMMENTS LAVAGY CA/QC																
RELINQUISHED BY (Signature) [Signature]		DATE 3-19-91	RECEIVED BY (Signature) [Signature]		DATE 3-19-91		RECEIVED BY (Signature) [Signature]		DATE 3-19-91		RECEIVED BY (Signature) [Signature]		DATE 3-19-91		RECEIVED BY (Signature) [Signature]	
COMPANY [Signature]		TIME 19:00	COMPANY [Signature]		COMPANY [Signature]		COMPANY [Signature]		COMPANY [Signature]		COMPANY [Signature]		COMPANY [Signature]		COMPANY [Signature]	

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 3-19-99
 Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 3-19-99
 by (print) MARTIN L. DEMESA (sign) _____

1. Did cooler come with shipping slip (air bill, etc.)? Yes No
 If YES, attach & enter carrier and air bill # here: DELIVERED BY CLIENT

2. Were custody seals on outside of cooler? Yes No
 If YES, how many & where: 2 OUTSIDE LID
 If Yes, enter the following: seal date: 3-19-99, seal name: J. B.

3. Were custody seals unbroken & intact at delivery? Yes No

4. Were custody papers sealed in bag & taped to lid? Yes No

5. Were custody papers filled out properly (ink, etc.)? Yes No

6. Did you sign custody papers in appropriate place? Yes No

7. Was project identifiable from custody papers? Yes No

8. Have designated person(s) initial to acknowledge receipt: MUD (date) 3-19-99

B. LOG-IN PHASE: Date samples were logged-in: 3-19-99 by:
 (print) M. L. DEMESA (sign) _____

9. Describe packing: _____

10. If required, was enough ice used? Yes No

11. Were all bottles sealed in separate plastic bags? Yes No

12. Did all bottles arrive unbroken/in good condition? Yes No

13. Were all bottle labels complete (ID, date, sign, pres)? Yes No

14. Did all bottle labels agree with custody papers?
 If NO, indicate discrepancies on back. Yes No

15. Were correct containers used for the analytes? Yes No

16. Were correct preservatives used when required? Yes No

17. Was sufficient amount of sample sent for tests? Yes No

18. Bubbles absent in VOA vials?
 If NO, list by sample id on back. Yes No

19. Was Client Services informed of problems? Yes No

Report Summary of positive results, PR52812

			Result	MDL	UNITS
Analyzed	990319300	MW-991-115			
Analyzed	990319301	MW-991-049			
03/24/99	1,1-Dichloroethylene		0.7	.500	UGL
03/24/99	1,2-Dichloroethane		0.7	.500	UGL
03/24/99	Carbon Tetrachloride		9.4	.500	UGL
03/24/99	Chloroform (Trichloromethane)		11	.500	UGL
03/26/99	Trichloroethylene (TCE)		28	1.000	UGL
03/26/99	Alkalinity		158	2.000	MGL
03/31/99	Anion Sum		5.39	.001	MEQL
03/31/99	Bicarbonate as HCO ₃ ,calculated		193	.001	MGL
03/24/99	Calcium, Total, ICAP		56.2	1.000	MGL
03/31/99	Carbonate as CO ₃ , Calculated		0.199	.001	MGL
03/24/99	Cation Sum		5.50	.001	MEQL
03/19/99	Chloride		21	2.000	MGL
03/24/99	Chromium, Total, ICAP/MS		27	10.000	UGL
03/19/99	Hexavalent chromium (Cr VI)		0.0175	.005	MGL
03/22/99	Lab pH		7.2	.001	UNIT
03/24/99	Magnesium, Total, ICAP		19.0	.100	MGL
03/19/99	Nitrate-N by IC		8.3	.200	MGL
03/24/99	Perchlorate		98	4.000	UGL
03/24/99	Potassium, Total, ICAP		2.45	1.000	MGL
03/24/99	Sodium, Total, ICAP		24.5	1.000	MGL
03/23/99	Specific Conductance		495	4.000	UMHO
03/19/99	Sulfate		50	4.000	MGL
03/25/99	Total Dissolved Solid (TDS)		300	10.000	MGL
Analyzed	990319302	MW-991-048			
03/24/99	1,1-Dichloroethylene		0.6	.500	UGL
03/24/99	1,2-Dichloroethane		0.6	.500	UGL
03/24/99	Carbon Tetrachloride		8.4	.500	UGL
03/24/99	Chloroform (Trichloromethane)		9.8	.500	UGL
03/26/99	Trichloroethylene (TCE)		29	1.000	UGL
03/24/99	Chromium, Total, ICAP/MS		30	10.000	UGL
03/19/99	Hexavalent chromium (Cr VI)		0.0188	.005	MGL
03/24/99	Perchlorate		98	4.000	UGL
Analyzed	990319303	MW-991-065			
03/24/99	1,1-Dichloroethylene		0.9	.500	UGL
03/26/99	Carbon Tetrachloride		49	2.500	UGL
03/24/99	Chloroform (Trichloromethane)		7.2	.500	UGL
03/24/99	Tetrachloroethylene (PCE)		0.6	.500	UGL
03/24/99	Trichloroethylene (TCE)		17	.500	UGL
03/24/99	Trichlorotrifluoroethane (Freon		2.0	.500	UGL
03/26/99	Alkalinity		144	2.000	MGL
03/31/99	Anion Sum		4.70	.001	MEQL
03/31/99	Bicarbonate as HCO ₃ ,calculated		176	.001	MGL
03/24/99	Calcium, Total, ICAP		52.4	1.000	MGL
03/31/99	Carbonate as CO ₃ , Calculated		0.362	.001	MGL
03/24/99	Cation Sum		4.89	.001	MEQL
03/19/99	Chloride		19	2.000	MGL
03/24/99	Iron, Total, ICAP/MS		350	*****	UGL

03/22/99	Lab pH	7.5	.001	UNIT
03/24/99	Magnesium, Total, ICAP	17.3	.100	MGL
03/19/99	Nitrate-N by IC	5.1	.200	MGL
03/24/99	Perchlorate	150	40.000	UGL
03/24/99	Potassium, Total, ICAP	2.50	1.000	MGL
03/24/99	Sodium, Total, ICAP	18.1	1.000	MGL
03/23/99	Specific Conductance	435	4.000	UMHO
03/19/99	Sulfate	44	4.000	MGL
03/25/99	Total Dissolved Solid (TDS)	270	10.000	MGL
Analyzed	990319304 MW-991-200			
03/24/99	Chloroform (Trichloromethane)	2.4	.500	UGL
Analyzed	990319305 MW-991-041			
03/24/99	1,1-Dichloroethylene	1.8	.500	UGL
03/24/99	1,2-Dichloroethane	1.1	.500	UGL
03/26/99	Carbon Tetrachloride	67	2.500	UGL
03/26/99	Chloroform (Trichloromethane)	24	2.500	UGL
03/24/99	Tetrachloroethylene (PCE)	1.4	.500	UGL
03/24/99	Trichloroethylene (TCE)	20	.500	UGL
03/24/99	Trichlorotrifluoroethane (Freon	1.1	.500	UGL
03/26/99	Alkalinity	127	2.000	MGL
03/31/99	Anion Sum	5.15	.001	MEQL
03/31/99	Bicarbonate as HCO3, calculated	155	.001	MGL
03/24/99	Calcium, Total, ICAP	51.6	1.000	MGL
03/31/99	Carbonate as CO3, Calculated	0.253	.001	MGL
03/24/99	Cation Sum	5.29	.001	MEQL
03/19/99	Chloride	20	2.000	MGL
03/24/99	Chromium, Total, ICAP/MS	13	10.000	UGL
03/19/99	Hexavalent chromium (Cr VI)	0.0055	.005	MGL
03/24/99	Iron, Total, ICAP/MS	260	*****	UGL
03/22/99	Lab pH	7.4	.001	UNIT
03/24/99	Magnesium, Total, ICAP	19.9	.100	MGL
03/19/99	Nitrate-N by IC	17	.200	MGL
03/24/99	Perchlorate	790	80.000	UGL
03/24/99	Potassium, Total, ICAP	2.29	1.000	MGL
03/24/99	Sodium, Total, ICAP	23.3	1.000	MGL
03/23/99	Specific Conductance	495	4.000	UMHO
03/19/99	Sulfate	40	4.000	MGL
03/25/99	Total Dissolved Solid (TDS)	290	10.000	MGL



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Laboratory Report

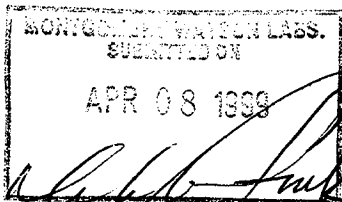
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714) 444-5560



DEB* Debbie Frank

Report#: 52812
JPL

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**Laboratory
Report
#52812**

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626

Samples Received
19-mar-1999 18:25:43

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-115 (990319300)				Sampled on 03/19/99				
Regulated VOCs plus Lists 1&3								
03/24/99	94289	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1	
03/24/99	94289	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1	
03/24/99	94289	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1	
03/24/99	94289	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1	

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Laboratory**Report****#52812**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/24/99	94289	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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**Laboratory
Report
#52812**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-049 (990319301)				Sampled on 03/19/99				
	03/26/99	94205	(ML/SM2320B)	Alkalinity	158	mg/l	2.0	1
	03/31/99		(ML/SM1040)	Anion Sum	5.39	meq/l	0.0010	1
03/23/99	03/29/99	94244	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	56.2	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	5.50	meq/l	0.0010	1
	03/19/99	93913	(ML/EPA 300)	Chloride	21	mg/l	2.0	2
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	98	ug/l	4.0	1
	03/31/99		(ML/SM2320B)	Carbonate as CO ₃ , Calculated	0.199	mg/l	0.0010	1
03/23/99	03/24/99	94067	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	27	ug/l	10	1
	03/19/99	93865	(ML/SW 7196)	Hexavalent chromium (Cr VI)	0.0175	mg/l	0.005	1
	03/23/99	93924	(ML/S2510B)	Specific Conductance	495	umho/cm	4.0	1
03/23/99	03/24/99	94069	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	03/31/99		(ML/SM2320B)	Bicarbonate as HCO ₃ , calculated	193	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	2.45	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	19.0	mg/l	0.10	1
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	24.5	mg/l	1.0	1
	03/19/99	93915	(ML/EPA 300.0)	Nitrate-N by IC	8.3	mg/l	0.20	2
03/23/99	03/24/99	94070	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/22/99	93886	(ML/SM 4500HB)	Lab pH	7.2	Units	0.0010	1
	03/19/99	93916	(ML/EPA 300.0)	Sulfate	50	mg/l	4.0	2
	03/25/99	94227	(ML/S2540C)	Total Dissolved Solid (TDS)	300	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/24/99	94289	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethylene	0.7	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#52812**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloroethane	0.7	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Carbon Tetrachloride	9.4	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroform (Trichloromethane)	11	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#52812**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/24/99	94289	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/26/99	94289	(ML/EPA 524.2)	Trichloroethylene (TCE)	28	ug/l	1.0	2
	03/24/99	94289	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	117	% Rec		
			(Surrogate)	4-Bromofluorobenzene	93	% Rec		
			(Surrogate)	Toluene-d8	107	% Rec		

MW-991-048 (990319302) Sampled on 03/19/99

03/23/99	03/29/99	94244	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	98	ug/l	4.0	1
03/23/99	03/24/99	94067	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	30	ug/l	10	1
	03/19/99	93865	(ML/SW 7196)	Hexavalent chromium (Cr VI)	0.0188	mg/l	0.005	1
03/23/99	03/24/99	94070	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1

Regulated VOCs plus Lists 1&3

03/24/99	94289	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethylene	0.6	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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1 800 566 LABS (1 800 566 5227)

**Laboratory
Report
#52812**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloroethane	0.6	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Carbon Tetrachloride	8.4	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroform (Trichloromethane)	9.8	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#52812**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/24/99	94289	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/26/99	94289	(ML/EPA 524.2)	Trichloroethylene (TCE)	29	ug/l	1.0	2
	03/24/99	94289	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	93	% Rec		

MW-991-065 (990319303) Sampled on 03/19/99

	03/26/99	94205	(ML/SM2320B)	Alkalinity	144	mg/l	2.0	1
	03/31/99		(ML/SM1040)	Anion Sum	4.70	meq/l	0.0010	1
03/23/99	03/29/99	94244	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	52.4	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	4.89	meq/l	0.0010	1
	03/19/99	93913	(ML/EPA 300)	Chloride	19	mg/l	2.0	2
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	150	ug/l	40	10
	03/31/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.362	mg/l	0.0010	1
03/23/99	03/24/99	94067	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/19/99	93865	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/23/99	93924	(ML/S2510B)	Specific Conductance	435	umho/cm	4.0	1
03/23/99	03/24/99	94069	(EPA/ML 200.8)	Iron, Total, ICAP/MS	350	ug/l	100	1
	03/31/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	176	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	2.50	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	17.3	mg/l	0.10	1
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	18.1	mg/l	1.0	1

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Laboratory**Report****#52812**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/19/99	93915	(ML/EPA 300.0)	Nitrate-N by IC	5.1	mg/l	0.20	2
03/23/99	03/24/99	94070	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/22/99	93886	(ML/SM 4500HB)	Lab pH	7.5	Units	0.0010	1
	03/19/99	93916	(ML/EPA 300.0)	Sulfate	44	mg/l	4.0	2
	03/25/99	94227	(ML/S2540C)	Total Dissolved Solid (TDS)	270	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/24/99	94289	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethylene	0.9	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/26/99	94289	(ML/EPA 524.2)	Carbon Tetrachloride	49	ug/l	2.5	5
	03/24/99	94289	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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**Laboratory
Report
#52812**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/24/99	94289	(ML/EPA 524.2)	Chloroform (Trichloromethane)	7.2	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.6	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichloroethylene (TCB)	17	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	2.0	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	114	% Rec		
			(Surrogate)	4-Bromofluorobenzene	106	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Laboratory**Report****#52812**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-200 (990319304)				Sampled on 03/19/99				
03/23/99	03/29/99	94244	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
03/23/99	03/24/99	94067	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/19/99	93865	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
03/23/99	03/24/99	94070	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
Regulated VOCs plus Lists 1&3								
	03/24/99	94289	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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**Laboratory
Report
#52812**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/24/99	94289	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.4	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	104	% Rec		
			(Surrogate)	4-Bromofluorobenzene	105	% Rec		

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**Laboratory
Report
#52812**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	101	% Rec		
MW-991-041 (990319305) Sampled on 03/19/99								
	03/26/99	94205	(ML/SM2320B)	Alkalinity	127	mg/l	2.0	1
	03/31/99		(ML/SM1040)	Anion Sum	5.15	meq/l	0.0010	1
03/23/99	03/29/99	94244	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	51.6	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	5.29	meq/l	0.0010	1
	03/19/99	93913	(ML/EPA 300)	Chloride	20	mg/l	2.0	2
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	790	ug/l	80	20
	03/31/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.253	mg/l	0.0010	1
03/23/99	03/24/99	94067	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	13	ug/l	10	1
	03/19/99	93865	(ML/SW 7196)	Hexavalent chromium (Cr VI)	0.0055	mg/l	0.005	1
	03/23/99	93924	(ML/S2510B)	Specific Conductance	495	umho/cm	4.0	1
03/23/99	03/24/99	94069	(EPA/ML 200.8)	Iron, Total, ICAP/MS	260	ug/l	100	1
	03/31/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	155	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	2.29	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	19.9	mg/l	0.10	1
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	23.3	mg/l	1.0	1
	03/19/99	93915	(ML/EPA 300.0)	Nitrate-N by IC	17	mg/l	0.20	2
03/23/99	03/24/99	94070	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/22/99	93886	(ML/SM 4500KB)	Lab pH	7.4	Units	0.0010	1
	03/19/99	93916	(ML/EPA 300.0)	Sulfate	40	mg/l	4.0	2
	03/25/99	94227	(ML/S2540C)	Total Dissolved Solid (TDS)	290	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/24/99	94289	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloroethylene	1.8	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Report
#52812**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/24/99	94289	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloroethane	1.1	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/24/99	94289	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/26/99	94289	(ML/EPA 524.2)	Carbon Tetrachloride	67	ug/l	2.5	5
	03/24/99	94289	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/26/99	94289	(ML/EPA 524.2)	Chloroform (Trichloromethane)	24	ug/l	2.5	5
	03/24/99	94289	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#52812**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/24/99	94289	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.4	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichloroethylene (TCE)	20	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	1.1	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/24/99	94289	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		



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Laboratory
QC Report
#52812

Foster Wheeler Environmental, Inc

QC Batch #93865

Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0319305		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0500	100.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0500	100.0	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0494	98.8	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0494	98.8	(80.00 - 120.00)	0.00

QC Batch #93886

Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0319305		(0.00 - 0.00)	

QC Batch #93913

Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0318767		(0.00 - 0.00)	
LCS1	Chloride	25	24.1	96.4	(90.00 - 110.00)	
LCS2	Chloride	25	24.8	99.2	(90.00 - 110.00)	2.9
MBLK	Chloride	ND				
MS	Chloride	25	25.6	102.4	(80.00 - 120.00)	
MSD	Chloride	25	25.5	102.0	(80.00 - 120.00)	0.39

QC Batch #93915

Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0318767		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.44	97.6	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.52	100.8	(90.00 - 110.00)	3.2
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.54	101.6	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.53	101.2	(80.00 - 120.00)	0.39

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

**MONTGOMERY WATSON LABORATORIES**

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555 East Walnut Street

Pasadena, California 91101

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1 800 566 LABS (1 800 566 5227)

**Laboratory
QC Report
#52812**Foster Wheeler Environmental, Inc
(continued)**QC Batch #93916****Sulfate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0318767		(0.00 - 0.00)	
LCS1	Sulfate	50	48.3	96.6	(90.00 - 110.00)	
LCS2	Sulfate	50	49.7	99.4	(90.00 - 110.00)	2.9
MBLK	Sulfate	ND				
MS	Sulfate	50	52.3	104.6	(80.00 - 120.00)	
MSD	Sulfate	50	52.3	104.6	(80.00 - 120.00)	0.00

QC Batch #93924**Specific Conductance**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0322091		(0.00 - 0.00)	

QC Batch #93999**Calcium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.8	103.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	52.4	104.8	(85.00 - 115.00)	1.2
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	53.7	107.4	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	52.1	104.2	(70.00 - 130.00)	3.0

QC Batch #94003**Potassium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.3	101.5	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.4	102.0	(80.00 - 110.00)	0.49
MBLK	Potassium, Total, ICAP	ND				

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(continued)

MS	Potassium, Total, ICAP	20	21.2	106.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.9	104.5	(80.00 - 120.00)	1.4

QC Batch #94005**Magnesium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	21.1	105.5	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	21.3	106.5	(85.00 - 115.00)	0.94
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	21.6	108.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	21.3	106.5	(70.00 - 130.00)	1.4

QC Batch #94009**Sodium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	50.9	101.8	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	51.1	102.2	(85.00 - 115.00)	0.39
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	51.7	103.4	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	50.8	101.6	(70.00 - 130.00)	1.8

QC Batch #94011**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0319303		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	19.8	99.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.4	97.0	(90.00 - 110.00)	2.0
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.8	104.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.1	105.5	(75.00 - 125.00)	1.4

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Laboratory**QC Report****#52812**Foster Wheeler Environmental, Inc
(continued)**QC Batch #94067****Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0321257		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	97	97.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	97	97.0	(85.00 - 115.00)	0.00
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	98	98.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	96	96.0	(70.00 - 130.00)	2.1

QC Batch #94069**Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323257		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	493	98.6	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	502	100.4	(85.00 - 115.00)	1.8
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	494	98.8	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	494	98.8	(70.00 - 130.00)	0.00

QC Batch #94070**Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323257		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	20.5	102.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	19.8	99.0	(85.00 - 115.00)	3.5
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.0	105.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	20.0	100.0	(70.00 - 130.00)	4.9

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QC Report
#52812Foster Wheeler Environmental, Inc
(continued)**QC Batch #94205****Alkalinity**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0318765		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	98.1	102.0	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	98.0	101.9	(90.00 - 110.00)	0.10
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	87.0	90.4	(80.00 - 120.00)	
MSD	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	2.3

QC Batch #94227**Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0319174		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	688	98.3	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #94244**Arsenic, Total, GF**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323257		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0200	100.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0202	101.0	(85.00 - 115.00)	1.00
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0206	103.0	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0202	101.0	(70.00 - 130.00)	2.0

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Laboratory

QC Report

#52812

Foster Wheeler Environmental, Inc
(continued)

QC Batch #94289

Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.85	96.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.80	95.0	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.52	88.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.96	99.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.50	87.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.45	86.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.66	91.5	(70.00 - 130.00)	5.9
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.82	95.5	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.61	90.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.89	97.2	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	6.86	85.8	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.13	103.2	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				

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Laboratory**QC Report****#52812**Foster Wheeler Environmental, Inc
(continued)

MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0323257		(0.00 - 0.00)	
LCS1	Benzene	4	3.62	90.5	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.49	87.2	(70.00 - 130.00)	
MSD	Benzene	4	3.96	99.0	(70.00 - 130.00)	13
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.73	93.2	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.82	95.5	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.58	89.5	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.90	97.5	(70.00 - 130.00)	8.6
LCS1	Carbon Tetrachloride	4	3.89	97.2	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	6.34	79.2	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	4.02	100.5	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane (Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.67	91.8	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.84	96.0	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	3.48	87.0	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	3.71	92.8	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	1.83	91.5	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

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Laboratory**QC Report****#52812**Foster Wheeler Environmental, Inc
(continued)

MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	7.82	97.8	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	3.73	93.2	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.82	95.5	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	3.93	98.2	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.85	96.2	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	99.3	99.3	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	96.0	96.0		
MS	1,2-dichloroethane-d4	100	101	101.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 120.00)	3.9
LCS1	Toluene-d8	100	99.6	99.6	(80.00 - 120.00)	
MBLK	Toluene-d8	100	99.0	99.0		
MS	Toluene-d8	100	95.7	95.7	(80.00 - 120.00)	
MSD	Toluene-d8	100	101	101.0	(80.00 - 120.00)	5.4
LCS1	4-Bromofluorobenzene	100	105	105.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	112	112.0		
MS	4-Bromofluorobenzene	100	98.4	98.4	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	98.0	98.0	(80.00 - 120.00)	0.41
LCS1	trans-1,2-Dichloroethylene	4	3.86	96.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.85	96.2	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	3.67	91.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.85	96.2	(70.00 - 130.00)	4.8

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Laboratory
QC Report
#52812

Foster Wheeler Environmental, Inc
(continued)

LCS1	Trichlorotrifluoroethane(Freon	2	2.12	106.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.62	90.5	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.68	92.0	(70.00 - 130.00)	
MSD	Toluene	4	3.79	94.8	(70.00 - 130.00)	2.9
LCS1	Vinyl chloride (VC)	2	1.86	93.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

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Quality Environmental Analysis

April 9, 1999

Foster Wheeler Environmental
611 Anton Blvd, Suite 800
Costa Mesa, CA. 92626

Attention: Mark Cutler

Re: Report # 52845 (MW-991-116, MW-991-066, MW-991-061,
MW-991-062, MW-991-067)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):

None

Samples requiring dilution (with increased MRL's):

MW-991-062 and -066 were diluted for Anions.

Method blanks with compounds detected:

None

Other Comments:

1,1-Dichloroethane was detected in MW-991-066

Chloroform was detected in MW-991-066, -061, -062

Tetrachloroethylene was detected in MW-991-066

Trichloroethylene was detected in MW-991-066, -061, -062

Chromium was detected in MW-991-066, -061, -062

Perchlorate was detected in MW-991-061, -062

TIC's:

None

Method Variance:

None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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Northern California Service Center
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Walnut Creek, California 94596
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Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0005-0001
Group#: 52845
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 03/22/99. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
990323010	MW-991-116	@EBASVOA	Water	03/22/99
990323011	MW-991-066	@EBASVOA CR-VI PB-EBAS CR-EBAS AS-EBAS TDS CATION1 ANION1 PH EC HCO3 CO3 ALK NO3 SO4 CL FE-MS K NA MG CA CLO4	Water	03/22/99
990323012	MW-991-061	@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI CLO4	Water	03/22/99
990323013	MW-991-062	@EBASVOA CR-VI PB-EBAS CR-EBAS AS-EBAS TDS CATION1 ANION1 PH EC HCO3 CO3 ALK NO3 SO4 CL FE-MS K NA MG CA CLO4	Water	03/22/99
990323014	MW-991-067	@EBASVOA CLO4 CA MG NA K FE-MS CL SO4 NO3 ALK CO3 HCO3 EC PH ANION1 CATIO TDS AS-EBAS CR-EBAS PB-EBAS CR-VI	Water	03/22/99

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-EBAS	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate

Foster Wheeler Environmental, Inc

611 Anton Boulevard

Suite 800

Costa Mesa, CA 92626

Attn: Mark Cutler

Customer Code: ENSERCH

PO#: Sub PO#007618-0005-0001

Group#: 52845

Project#: JPL

Proj Mgr: Debbie Frank

Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
CO3	Carbonate as CO3, Calculated
CR-EBAS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-EBAS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)



52845

NUMBER 1248

TEMP = 5-10
B.D. - OK
REC 100

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572 0260		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS	
PROJECT ADDRESS 4000 OAK GLEN DR PASADENA CA				ANALYSES REQUIRED			
SAMPLER (Name) J. Brennan		SAMPLER (Signature) <i>[Signature]</i>		VOCs (5242) TDMS Hex Cr PCB/PAH OC FOR C-6			
LABORATORY MONTGOMERY WATSON				REPORTS TO BE SENT TO M.2. MACK			
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL		
					WATER	SOIL	OTHER (Describe)
M.991-060	0800	3/22/97	2	2x40ml	X		
M.991-066	1035	↓	6	2x40ml 1x25ml 2x125ml 1x50ml	X		
M.991-061	1230		6	↓	X		
M.991-062	1240		5	2x40ml 1x25ml 2x125ml	X		
M.991-067	1445		6	2x40ml 1x25ml 2x125ml 1x50ml	X		
* DID NOT REC * REC SAMPLES JEFF WAS INFORMED, EVERYTHING COLLECTED							
LABORATORY INSTRUCTIONS/COMMENTS Level IV QA/QC							
RELINQUISHED BY (Signature) <i>[Signature]</i>		DATE 3-22-97		RECEIVED BY (Signature) <i>[Signature]</i>		DATE 3-22-97	
COMPANY FW		TIME 1:42		COMPANY M.2. MACK		COMPANY M.2. MACK	

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 3-22-99
 Use other side of this form to note further details concerning check-in problems
 and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 3-22-99
 by (print) M. DE MESA (sign) [Signature]

1. Did cooler come with shipping slip (air bill, etc.)? Yes No
 If YES, attach & enter carrier and air bill # here: DELIVERED BY CLIENT

2. Were custody seals on outside of cooler? Yes No
 If YES, how many & where: 2 OUTSIDE LID
 If Yes, enter the following: seal date: 3-22-99 seal name: J.B.

3. Were custody seals unbroken & intact at delivery? Yes No

4. Were custody papers sealed in bag & taped to lid? Yes No

5. Were custody papers filled out properly (ink, etc.) Yes No

6. Did you sign custody papers in appropriate place? Yes No

7. Was project identifiable from custody papers? Yes No

8. Have designated person(s) initial to acknowledge receipt: 3-22-99 (date) NLD

B. LOG-IN PHASE: Date samples were logged-in: 3-23-99 by:
 (print) M. DE MESA (sign) [Signature]

9. Describe packing:

10. If required, was enough ice used? Yes No

11. Were all bottles sealed in separate plastic bags? Yes No

12. Did all bottles arrive unbroken/in good condition? Yes No

13. Were all bottle labels complete (ID, date, sign, pres)? Yes No

14. Did all bottle labels agree with custody papers? Yes No - SEE CCC
 If NO, indicate discrepancies on back.

15. Were correct containers used for the analytes? Yes No

16. Were correct preservatives used when required? Yes No

17. Was sufficient amount of sample sent for tests? Yes No

18. Bubbles absent in VOA vials? Yes No
 If NO, list by sample id on back.

19. Was Client Services informed of problems? Yes No

Report Summary of positive results, PR52845

			Result	MDL	UNITS
Analyzed	990323010	MW-991-116			
Analyzed	990323011	MW-991-066			
03/26/99	1,1-Dichloroethane		1.0	.500	UGL
03/26/99	Chloroform (Trichloromethane)		0.6	.500	UGL
03/26/99	Tetrachloroethylene (PCE)		3.8	.500	UGL
03/26/99	Trichloroethylene (TCE)		0.8	.500	UGL
03/26/99	Alkalinity		219	2.000	MGL
03/31/99	Anion Sum		11.5	.001	MEQL
03/31/99	Bicarbonate as HCO ₃ ,calculated		267	.001	MGL
03/24/99	Calcium, Total, ICAP		133	1.000	MGL
03/31/99	Carbonate as CO ₃ , Calculated		0.174	.001	MGL
03/24/99	Cation Sum		11.6	.001	MEQL
03/23/99	Chloride		110	4.000	MGL
03/24/99	Chromium, Total, ICAP/MS		17	10.000	UGL
03/24/99	Iron, Total, ICAP/MS		130	*****	UGL
03/25/99	Lab pH		7.0	.001	UNIT
03/24/99	Magnesium, Total, ICAP		43.6	.100	MGL
03/23/99	Nitrate-N by IC		10	.400	MGL
03/24/99	Potassium, Total, ICAP		2.32	1.000	MGL
03/24/99	Sodium, Total, ICAP		30.9	1.000	MGL
3/26/99	Specific Conductance		1110	4.000	UMHO
03/23/99	Sulfate		160	8.000	MGL
03/25/99	Total Dissolved Solid (TDS)		680	10.000	MGL
Analyzed	990323012	MW-991-061			
03/26/99	Chloroform (Trichloromethane)		0.9	.500	UGL
03/26/99	Trichloroethylene (TCE)		5.6	.500	UGL
03/24/99	Chromium, Total, ICAP/MS		14	10.000	UGL
03/24/99	Perchlorate		39	4.000	UGL
Analyzed	990323013	MW-991-062			
03/26/99	Chloroform (Trichloromethane)		0.9	.500	UGL
03/26/99	Trichloroethylene (TCE)		5.7	.500	UGL
03/26/99	Alkalinity		179	2.000	MGL
03/31/99	Anion Sum		7.28	.001	MEQL
03/31/99	Bicarbonate as HCO ₃ ,calculated		218	.001	MGL
03/24/99	Calcium, Total, ICAP		82.5	1.000	MGL
03/31/99	Carbonate as CO ₃ , Calculated		0.142	.001	MGL
03/24/99	Cation Sum		7.25	.001	MEQL
03/23/99	Chloride		46	2.000	MGL
03/24/99	Chromium, Total, ICAP/MS		12	10.000	UGL
03/24/99	Iron, Total, ICAP/MS		110	*****	UGL
03/25/99	Lab pH		7.0	.001	UNIT
03/24/99	Magnesium, Total, ICAP		27.3	.100	MGL
03/23/99	Nitrate-N by IC		9.1	.200	MGL
03/24/99	Perchlorate		39	4.000	UGL
03/24/99	Potassium, Total, ICAP		2.66	1.000	MGL
03/24/99	Sodium, Total, ICAP		18.6	1.000	MGL
03/26/99	Specific Conductance		700	4.000	UMHO
03/23/99	Sulfate		84	4.000	MGL
03/25/99	Total Dissolved Solid (TDS)		400	10.000	MGL

Analyzed	990323014	MW-991-067		
03/26/99	Alkalinity	132	2.000	MGL
03/31/99	Anion Sum	3.40	.001	MEQL
03/31/99	Bicarbonate as HCO ₃ ,calculated	161	.001	MGL
03/24/99	Calcium, Total, ICAP	37.5	1.000	MGL
03/31/99	Carbonate as CO ₃ , Calculated	0.132	.001	MGL
03/24/99	Cation Sum	3.48	.001	MEQL
03/23/99	Chloride	8.4	1.000	MGL
03/24/99	Iron, Total, ICAP/MS	590	*****	UGL
03/25/99	Lab pH	7.1	.001	UNIT
03/24/99	Magnesium, Total, ICAP	11.6	.100	MGL
03/23/99	Nitrate-N by IC	1.2	.100	MGL
03/24/99	Potassium, Total, ICAP	2.57	1.000	MGL
03/24/99	Sodium, Total, ICAP	13.4	1.000	MGL
03/26/99	Specific Conductance	335	4.000	UMHO
03/23/99	Sulfate	21	2.000	MGL
03/25/99	Total Dissolved Solid (TDS)	200	10.000	MGL



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Laboratory Report

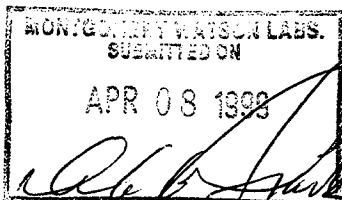
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714) 444-5560



DEB* Debbie Frank

Report#: 52845
JPL

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Laboratory**Report****#52845**

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
22-mar-1999 16:42:00

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-116 (990323010)				Sampled on 03/22/99				
Regulated VOCs plus Lists 1&3								
03/26/99	94287	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1	
03/26/99	94287	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1	
03/26/99	94287	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1	
03/26/99	94287	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1	

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**Laboratory
Report
#52845**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/26/99	94287	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	101	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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**Laboratory
Report
#52845**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-066 (990323011) Sampled on 03/22/99								
	03/26/99	94205	(ML/SM2320B)	Alkalinity	219	mg/l	2.0	1
	03/31/99		(ML/SM1040)	Anion Sum	11.5	meq/l	0.0010	1
03/23/99	03/29/99	94244	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	133	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	11.6	meq/l	0.0010	1
	03/23/99	94186	(ML/EPA 300)	Chloride	110	mg/l	4.0	4
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/31/99		(ML/SM2320B)	Carbonate as CO ₃ , Calculated	0.174	mg/l	0.0010	1
03/23/99	03/24/99	94067	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	17	ug/l	10	1
	03/22/99	93910	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/26/99	94187	(ML/S2510B)	Specific Conductance	1110	umho/cm	4.0	1
03/23/99	03/24/99	94069	(EPA/ML 200.8)	Iron, Total, ICAP/MS	130	ug/l	100	1
	03/31/99		(ML/SM2320B)	Bicarbonate as HCO ₃ ,calculated	267	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	2.32	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	43.6	mg/l	0.10	1
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	30.9	mg/l	1.0	1
	03/23/99	94194	(ML/EPA 300.0)	Nitrate-N by IC	10	mg/l	0.40	4
03/23/99	03/24/99	94070	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/25/99	94107	(ML/SM 4500HB)	Lab pH	7.0	Units	0.0010	1
	03/23/99	94196	(ML/EPA 300.0)	Sulfate	160	mg/l	8.0	4
	03/25/99	94227	(ML/S2540C)	Total Dissolved Solid (TDS)	680	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/26/99	94287	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1-Dichloroethane	1.0	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#52845**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/26/99	94287	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/26/99	94287	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/26/99	94287	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.6	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#52845****Foster Wheeler Environmental, Inc
(continued)**

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/26/99	94287	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	3.8	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.8	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

MW-991-061 (990323012) Sampled on 03/22/99

03/23/99	03/29/99	94244	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	39	ug/l	4.0	1
03/23/99	03/24/99	94067	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	14	ug/l	10	1
	03/22/99	93910	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
03/23/99	03/24/99	94070	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1

Regulated VOCs plus Lists 1&3

03/26/99	94287	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
03/26/99	94287	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
03/26/99	94287	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
03/26/99	94287	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
03/26/99	94287	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
03/26/99	94287	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
03/26/99	94287	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
03/26/99	94287	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
03/26/99	94287	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
03/26/99	94287	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#52845**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/26/99	94287	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/26/99	94287	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/26/99	94287	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.9	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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**Laboratory
 Report
 #52845**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/26/99	94287	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Trichloroethylene (TCE)	5.6	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	102	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

MW-991-062 (990323013) Sampled on 03/22/99

	03/26/99	94205	(ML/SM2320B)	Alkalinity	179	mg/l	2.0	1
	03/31/99		(ML/SM1040)	Anion Sum	7.28	meq/l	0.0010	1
03/23/99	03/29/99	94244	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	82.5	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	7.25	meq/l	0.0010	1
	03/23/99	94186	(ML/EPA 300)	Chloride	46	mg/l	2.0	2
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	39	ug/l	4.0	1
	03/31/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.142	mg/l	0.0010	1
03/23/99	03/24/99	94067	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	12	ug/l	10	1
	03/22/99	93910	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/26/99	94187	(ML/S2510B)	Specific Conductance	700	umho/cm	4.0	1
03/23/99	03/24/99	94069	(EPA/ML 200.8)	Iron, Total, ICAP/MS	110	ug/l	100	1
	03/31/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	218	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	2.66	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	27.3	mg/l	0.10	1
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	18.6	mg/l	1.0	1

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**Laboratory
Report
#52845**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/23/99	94194	(ML/EPA 300.0)	Nitrate-N by IC	9.1	mg/l	0.20	2
03/23/99	03/24/99	94070	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/25/99	94107	(ML/SM 4500HB)	Lab pH	7.0	Units	0.0010	1
	03/23/99	94196	(ML/EPA 300.0)	Sulfate	84	mg/l	4.0	2
	03/25/99	94227	(ML/S2540C)	Total Dissolved Solid (TDS)	400	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/26/99	94287	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/26/99	94287	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/26/99	94287	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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**Laboratory
Report
#52845**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/26/99	94287	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.9	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Trichloroethylene (TCE)	5.7	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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**Laboratory
Report
#52845**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-067 (990323014) Sampled on 03/22/99								
	03/26/99	94205	(ML/SM2320B)	Alkalinity	132	mg/l	2.0	1
	03/31/99		(ML/SM1040)	Anion Sum	3.40	meq/l	0.0010	1
03/23/99	03/29/99	94244	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	37.5	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	3.48	meq/l	0.0010	1
	03/23/99	94186	(ML/EPA 300)	Chloride	8.4	mg/l	1.0	1
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/31/99		(ML/SM2320B)	Carbonate as CO ₃ , Calculated	0.132	mg/l	0.0010	1
03/23/99	03/24/99	94067	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/22/99	93910	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/26/99	94187	(ML/S2510B)	Specific Conductance	335	umho/cm	4.0	1
03/23/99	03/24/99	94069	(EPA/ML 200.8)	Iron, Total, ICAP/MS	590	ug/l	100	1
	03/31/99		(ML/SM2320B)	Bicarbonate as HCO ₃ , calculated	161	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	2.57	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	11.6	mg/l	0.10	1
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	13.4	mg/l	1.0	1
	03/23/99	94194	(ML/EPA 300.0)	Nitrate-N by IC	1.2	mg/l	0.10	1
03/23/99	03/24/99	94070	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/25/99	94107	(ML/SM 4500HB)	Lab pH	7.1	Units	0.0010	1
	03/23/99	94196	(ML/EPA 300.0)	Sulfate	21	mg/l	2.0	1
	03/25/99	94227	(ML/S2540C)	Total Dissolved Solid (TDS)	200	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/26/99	94287	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#52845**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/26/99	94287	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/26/99	94287	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/26/99	94287	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Laboratory
Report
#52845

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/26/99	94287	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/26/99	94287	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	113	% Rec		
			(Surrogate)	4-Bromofluorobenzene	109	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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QC Report

#52845

Foster Wheeler Environmental, Inc

QC Batch #93910**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323014		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0490	98.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(78.00 - 118.00)	2.4
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0515	103.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0509	101.8	(80.00 - 120.00)	1.2

QC Batch #93999**Calcium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.8	103.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	52.4	104.8	(85.00 - 115.00)	1.2
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	53.7	107.4	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	52.1	104.2	(70.00 - 130.00)	3.0

QC Batch #94003**Potassium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.3	101.5	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.4	102.0	(80.00 - 110.00)	0.49
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	21.2	106.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.9	104.5	(80.00 - 120.00)	1.4

QC Batch #94005**Magnesium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	21.1	105.5	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	21.3	106.5	(85.00 - 115.00)	0.94

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Laboratory
QC Report
#52845

Foster Wheeler Environmental, Inc
(continued)

MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	21.6	108.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	21.3	106.5	(70.00 - 130.00)	1.4

QC Batch #94009**Sodium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	50.9	101.8	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	51.1	102.2	(85.00 - 115.00)	0.39
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	51.7	103.4	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	50.8	101.6	(70.00 - 130.00)	1.8

QC Batch #94011**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0319303		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	19.8	99.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.4	97.0	(90.00 - 110.00)	2.0
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.8	104.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.1	105.5	(75.00 - 125.00)	1.4

QC Batch #94067**Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0321257		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	97	97.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	97	97.0	(85.00 - 115.00)	0.00
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	98	98.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	96	96.0	(70.00 - 130.00)	2.1

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Laboratory

QC Report

#52845

Foster Wheeler Environmental, Inc
(continued)**QC Batch #94069****Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323257		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	493	98.6	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	502	100.4	(85.00 - 115.00)	1.8
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	494	98.8	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	494	98.8	(70.00 - 130.00)	0.00

QC Batch #94070**Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323257		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	20.5	102.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	19.8	99.0	(85.00 - 115.00)	3.5
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.0	105.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	20.0	100.0	(70.00 - 130.00)	4.9

QC Batch #94107**Lab pH**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0325068		(0.00 - 0.00)	

QC Batch #94186**Chloride**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323014		(0.00 - 0.00)	
LCS1	Chloride	25	25.4	101.6	(90.00 - 110.00)	
LCS2	Chloride	25	25.4	101.6	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				

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1 800 566 LABS (1 800 566 5227)

**Laboratory
QC Report
#52845**Foster Wheeler Environmental, Inc
(continued)

MS	Chloride	25	26.8	107.2	(80.00 - 120.00)	
MSD	Chloride	25	27.0	108.0	(80.00 - 120.00)	0.74

QC Batch #94187**Specific Conductance**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0323255		(0.00 - 0.00)	

QC Batch #94194**Nitrate-N by IC**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323014		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.57	102.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.57	102.8	(90.00 - 110.00)	0.00
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.57	102.8	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.59	103.6	(80.00 - 120.00)	0.78

QC Batch #94196**Sulfate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323014		(0.00 - 0.00)	
LCS1	Sulfate	50	50.5	101.0	(90.00 - 110.00)	
LCS2	Sulfate	50	50.7	101.4	(90.00 - 110.00)	0.40
MBLK	Sulfate	ND				
MS	Sulfate	50	52.6	105.2	(80.00 - 120.00)	
MSD	Sulfate	50	52.9	105.8	(80.00 - 120.00)	0.57

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Laboratory

QC Report

#52845

Foster Wheeler Environmental, Inc
(continued)**QC Batch #94205****Alkalinity**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0318765		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	98.1	102.0	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	98.0	101.9	(90.00 - 110.00)	0.10
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	87.0	90.4	(80.00 - 120.00)	
MSD	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	2.3

QC Batch #94227**Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0319174		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	688	98.3	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #94244**Arsenic, Total, GF**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323257		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0200	100.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0202	101.0	(85.00 - 115.00)	1.00
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0206	103.0	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0202	101.0	(70.00 - 130.00)	2.0

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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**Laboratory
QC Report
#52845**Foster Wheeler Environmental, Inc
(continued)**QC Batch #94287****Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.99	99.8	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.13	103.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.79	94.8	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.86	96.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.57	89.2	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.45	86.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.66	91.5	(70.00 - 130.00)	5.9
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.13	103.2	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.84	96.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.03	100.8	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.25	90.6	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.00	100.0	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				

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Laboratory**QC Report****#52845**Foster Wheeler Environmental, Inc
(continued)

MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0323257		(0.00 - 0.00)	
LCS1	Benzene	4	3.78	94.5	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.49	87.2	(70.00 - 130.00)	
MSD	Benzene	4	3.96	99.0	(70.00 - 130.00)	13
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.91	97.8	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.77	94.2	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.58	89.5	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.90	97.5	(70.00 - 130.00)	8.6
LCS1	Carbon Tetrachloride	4	3.83	95.8	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	2.91	72.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.83	95.8	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane (Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.82	95.5	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.86	96.5	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	3.43	85.8	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	3.87	96.8	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	1.86	93.0	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

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**Laboratory
QC Report
#52845**

**Foster Wheeler Environmental, Inc
(continued)**

MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	7.97	99.6	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	3.89	97.2	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.74	93.5	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	3.89	97.2	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.89	97.2	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	103	103.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	108	108.0		
MS	1,2-dichloroethane-d4	100	101	101.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 120.00)	3.9
LCS1	Toluene-d8	100	98.5	98.5	(80.00 - 120.00)	
MBLK	Toluene-d8	100	102	102.0		
MS	Toluene-d8	100	95.7	95.7	(80.00 - 120.00)	
MSD	Toluene-d8	100	101	101.0	(80.00 - 120.00)	5.4
LCS1	4-Bromofluorobenzene	100	104	104.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	97.1	97.1		
MS	4-Bromofluorobenzene	100	98.4	98.4	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	98.0	98.0	(80.00 - 120.00)	0.41
LCS1	trans-1,2-Dichloroethylene	4	3.36	84.0	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.80	95.0	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	3.67	91.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.85	96.2	(70.00 - 130.00)	4.8

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**Laboratory
QC Report
#52845**

Foster Wheeler Environmental, Inc
(continued)

LCS1	Trichlorotrifluoroethane (Freon	2	2.13	106.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.62	90.5	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.68	92.0	(70.00 - 130.00)	
MSD	Toluene	4	3.79	94.8	(70.00 - 130.00)	2.9
LCS1	Vinyl chloride (VC)	2	1.97	98.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

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Quality Environmental Analysis

April 9, 1999

Foster Wheeler Environmental
611 Anton Blvd, Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 52867 (MW-991-117, MW-991-064, MW-991-063,
MW-991-079, MW-991-042)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):

None

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Other Comments:

None

TIC's:

None

Method Variance:

None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelty (JPL)

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4820 South Mill Avenue - Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Northern California Service Center
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0005-0001
Group#: 52867
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 03/23/99. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
990323253	MW-991-117	@EBASVOA	Water	03/23/99
990323254	MW-991-064	@EBASVOA CR-VI PB-EBAS CR-EBAS AS-EBAS TDS CATION1 ANION1 PH EC HCO3 CO3 ALK NO3 SO4 CL FE-MS K NA MG CA CLO4	Water	03/23/99
990323255	MW-991-063	@EBASVOA CLO4 CA MG NA K FE-MS CL SO4 NO3 ALK CO3 HCO3 EC PH ANION1 CATIO TDS AS-EBAS CR-EBAS PB-EBAS CR-VI	Water	03/23/99
990323256	MW-991-079	@EBASVOA CLO4 CA MG NA K FE-MS CL SO4 NO3 ALK CO3 HCO3 EC PH ANION1 CATIO TDS AS-EBAS CR-EBAS PB-EBAS CR-VI	Water	03/23/99
990323257	MW-991-042	@EBASVOA CLO4 CA MG NA K FE-MS CL SO4 NO3 ALK CO3 HCO3 EC PH ANION1 CATIO TDS AS-EBAS CR-EBAS PB-EBAS CR-VI	Water	03/23/99

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-EBAS	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0005-0001
Group#: 52867
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-EBAS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-EBAS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)



52867

NUMBER 1 19

TEMP = 5-9

REG ICE OK

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572.0269		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS										
PROJECT ADDRESS 4900 Oak Grove Dr Pasadena				ANALYSES REQUIRED												
SAMPLER (Name) J. Blenner		SAMPLER (Signature) J. Blenner		VOCs (S242)												
LABORATORY MONTGOMERY WATSON LABS				TOTAL DS, C, P (6010/700)												
REPORTS TO BE SENT TO M2 MARK CUTLER				MAJOR ANALYSES TDS												
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (S242)	TOTAL DS, C, P (6010/700)	MAJOR ANALYSES TDS	HEX C	C104	MS VOCs	MS FOCs	MS/MS VOCs	GC S242 C-6
					WATER	SOIL	OTHER (Describe)									
MW 991-017	0900	3/23/92	2	2x40ml	X			X								
MW 991-064	0755	↓	6	2x40ml & 250ml	X			X	X	X	X	X				
MW 991-063	0915		6	2x125ml & 500ml	X			X	X	X	X	X				
MW 991-079	1025		6	↓	X			X	X	X	X	X				
MW 991-042	1125		7	2x40ml & 250ml	X			X	X	X	X	X				
MW 991-0205	1125		2	2x125ml & 500ml	X			X	X	X	X	X				
MW 991-047MS	1125		2	2x40ml	X			X	X	X	X	X				
MW 991-047MS	1125	↓	2	2x40ml	X			X	X	X	X					
LABORATORY INSTRUCTIONS/COMMENTS Level IV QA/QC																
RELINQUISHED BY (Signature) J. Blenner		DATE 3/23/92	RECEIVED BY (Signature) M. W.		DATE 3/23/92		RECEIVED BY (Signature) M. W.		DATE 3/23/92		RECEIVED BY (Signature) M. W.		DATE 3/23/92		RECEIVED BY (Signature) M. W.	
COMPANY Foster Wheeler		TIME 10:00	COMPANY Foster Wheeler		TIME 10:00		COMPANY Foster Wheeler		TIME 10:00		COMPANY Foster Wheeler		TIME 10:00		COMPANY Foster Wheeler	

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 3-23-99
 Use other side of this form to note further details concerning check-in problems
 and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 3-23-99
 by (print) M. DE WESA (sign) _____

1. Did cooler come with shipping slip (air bill, etc.)? Yes No
 If YES, attach & enter carrier and air bill # here: DEL BY CLIENT

2. Were custody seals on outside of cooler? Yes No
 If YES, how many & where: 4 OUTSIDE LID
 If Yes, enter the following: seal date: 3-23-99, seal name: J. B.

3. Were custody seals unbroken & intact at delivery? Yes No

4. Were custody papers sealed in bag & taped to lid? Yes No

5. Were custody papers filled out properly (ink, etc.) Yes No

6. Did you sign custody papers in appropriate place? Yes No

7. Was project identifiable from custody papers? Yes No

8. Have designated person(s) initial to acknowledge receipt: MW (date) 3-23-99

B. LOG-IN PHASE: Date samples were logged-in: 3-23-99 by:
 (print) M. DE WESA (sign) _____

9. Describe packing:

10. If required, was enough ice used? Yes No

11. Were all bottles sealed in separate plastic bags? Yes No

12. Did all bottles arrive unbroken/in good condition? Yes No

13. Were all bottle labels complete (ID, date, sign, pres)? Yes No

14. Did all bottle labels agree with custody papers?
 If NO, indicate discrepancies on back. Yes No

15. Were correct containers used for the analytes? Yes No

16. Were correct preservatives used when required? Yes No

17. Was sufficient amount of sample sent for tests? Yes No

18. Bubbles absent in VOA vials?
 If NO, list by sample id on back. Yes No

19. Was Client Services informed of problems? Yes No

Report Summary of positive results, PR52867

			Result	MDL	UNITS
Analyzed	990323253	MW-991-117			
Analyzed	990323254	MW-991-064			
03/26/99	Alkalinity		128	2.000	MGL
03/31/99	Anion Sum		3.34	.001	MEQL
03/31/99	Bicarbonate as HCO ₃ ,calculated		156	.001	MGL
03/24/99	Calcium, Total, ICAP		36.3	1.000	MGL
03/31/99	Carbonate as CO ₃ , Calculated		0.202	.001	MGL
03/24/99	Cation Sum		3.43	.001	MEQL
03/24/99	Chloride		8.6	1.000	MGL
03/24/99	Iron, Total, ICAP/MS		100	*****	UGL
03/25/99	Lab pH		7.3	.001	UNIT
03/24/99	Magnesium, Total, ICAP		11.9	.100	MGL
03/24/99	Nitrate-N by IC		0.77	.100	MGL
03/24/99	Potassium, Total, ICAP		2.17	1.000	MGL
03/24/99	Sodium, Total, ICAP		13.4	1.000	MGL
03/26/99	Specific Conductance		325	4.000	UMHO
03/24/99	Sulfate		23	2.000	MGL
03/30/99	Total Dissolved Solid (TDS)		200	10.000	MGL
Analyzed	990323255	MW-991-063			
03/26/99	Alkalinity		173	2.000	MGL
03/31/99	Anion Sum		5.20	.001	MEQL
03/31/99	Bicarbonate as HCO ₃ ,calculated		211	.001	MGL
03/24/99	Calcium, Total, ICAP		56.9	1.000	MGL
03/31/99	Carbonate as CO ₃ , Calculated		0.434	.001	MGL
03/24/99	Cation Sum		5.26	.001	MEQL
03/24/99	Chloride		21	1.000	MGL
03/25/99	Lab pH		7.5	.001	UNIT
03/24/99	Magnesium, Total, ICAP		17.8	.100	MGL
03/24/99	Nitrate-N by IC		0.94	.100	MGL
03/24/99	Potassium, Total, ICAP		3.04	1.000	MGL
03/24/99	Sodium, Total, ICAP		20.0	1.000	MGL
03/26/99	Specific Conductance		500	4.000	UMHO
03/24/99	Sulfate		52	2.000	MGL
03/30/99	Total Dissolved Solid (TDS)		320	10.000	MGL
Analyzed	990323256	MW-991-079			
03/26/99	Alkalinity		168	2.000	MGL
03/31/99	Anion Sum		4.32	.001	MEQL
03/31/99	Bicarbonate as HCO ₃ ,calculated		205	.001	MGL
03/24/99	Calcium, Total, ICAP		43.7	1.000	MGL
03/31/99	Carbonate as CO ₃ , Calculated		0.530	.001	MGL
03/24/99	Cation Sum		4.29	.001	MEQL
03/24/99	Chloride		10	1.000	MGL
03/25/99	Lab pH		7.6	.001	UNIT
03/24/99	Magnesium, Total, ICAP		13.9	.100	MGL
03/24/99	Nitrate-N by IC		0.98	.100	MGL
03/24/99	Potassium, Total, ICAP		2.80	1.000	MGL
03/24/99	Sodium, Total, ICAP		22.3	1.000	MGL
03/26/99	Specific Conductance		425	4.000	UMHO
03/24/99	Sulfate		29	2.000	MGL

03/30/99	Total Dissolved Solid (TDS)	260	10.000	MGL
Analyzed	990323257 MW-991-042			
03/26/99	Alkalinity	169	2.000	MGL
03/31/99	Anion Sum	5.12	.001	MEQL
03/31/99	Bicarbonate as HCO ₃ ,calculated	206	.001	MGL
03/24/99	Calcium, Total, ICAP	55.2	1.000	MGL
03/31/99	Carbonate as CO ₃ , Calculated	0.336	.001	MGL
03/24/99	Cation Sum	5.18	.001	MEQL
03/24/99	Chloride	20	1.000	MGL
03/25/99	Lab pH	7.4	.001	UNIT
03/24/99	Magnesium, Total, ICAP	17.7	.100	MGL
03/24/99	Nitrate-N by IC	2.2	.100	MGL
03/24/99	Potassium, Total, ICAP	2.94	1.000	MGL
03/24/99	Sodium, Total, ICAP	20.4	1.000	MGL
03/26/99	Specific Conductance	495	4.000	UMHO
03/24/99	Sulfate	49	2.000	MGL
03/30/99	Total Dissolved Solid (TDS)	330	10.000	MGL



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1 800 566 LABS (1 800 566 5227)

Laboratory Report

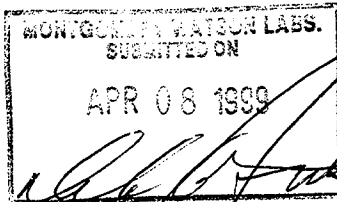
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714) 444-5560



DEB* Debbie Frank

Report#: 52867
JPL

**MONTGOMERY WATSON LABORATORIES**

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street

Pasadena, California 91101

Tel: 626 568 6400 Fax: 626 568 6324

1 800 566 LABS (1 800 566 5227)

Laboratory**Report****#52867**

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
23-mar-1999 16:12:21

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-117 (990323253) Sampled on 03/23/99								
Regulated VOCs plus Lists 1&3								
03/29/99	94340	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1	
03/29/99	94340	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1	
03/29/99	94340	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1	
03/29/99	94340	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1	

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**Laboratory
Report
#52867**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/29/99	94340	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	106	% Rec		
			(Surrogate)	4-Bromofluorobenzene	93	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

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Laboratory**Report****#52867**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-064 (990323254) Sampled on 03/23/99								
	03/26/99	94205	(ML/SM2320B)	Alkalinity	128	mg/l	2.0	1
	03/31/99		(ML/SM1040)	Anion Sum	3.34	meq/l	0.0010	1
03/23/99	03/29/99	94244	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	36.3	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	3.43	meq/l	0.0010	1
	03/24/99	94190	(ML/EPA 300)	Chloride	8.6	mg/l	1.0	1
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/31/99		(ML/SM2320B)	Carbonate as CO ₃ , Calculated	0.202	mg/l	0.0010	1
03/23/99	03/24/99	94067	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/23/99	93936	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/26/99	94187	(ML/S2510B)	Specific Conductance	325	umho/cm	4.0	1
03/23/99	03/24/99	94069	(EPA/ML 200.8)	Iron, Total, ICAP/MS	100	ug/l	100	1
	03/31/99		(ML/SM2320B)	Bicarbonate as HCO ₃ ,calculated	156	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	2.17	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	11.9	mg/l	0.10	1
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	13.4	mg/l	1.0	1
	03/24/99	94194	(ML/EPA 300.0)	Nitrate-N by IC	0.77	mg/l	0.10	1
03/23/99	03/24/99	94070	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/25/99	94107	(ML/SM 4500HB)	Lab pH	7.3	Units	0.0010	1
	03/24/99	94196	(ML/EPA 300.0)	Sulfate	23	mg/l	2.0	1
	03/30/99	94385	(ML/S2540C)	Total Dissolved Solid (TDS)	200	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/29/99	94340	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#52867**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/29/99	94340	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/29/99	94340	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/29/99	94340	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#52867**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/29/99	94340	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	104	% Rec		
			(Surrogate)	4-Bromofluorobenzene	101	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

MW-991-063 (990323255) Sampled on 03/23/99

	03/26/99	94205	(ML/SM2320B)	Alkalinity	173	mg/l	2.0	1
	03/31/99		(ML/SM1040)	Anion Sum	5.20	meq/l	0.0010	1
03/23/99	03/29/99	94244	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	56.9	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	5.26	meq/l	0.0010	1
	03/24/99	94190	(ML/EPA 300)	Chloride	21	mg/l	1.0	1
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/31/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.434	mg/l	0.0010	1
03/23/99	03/24/99	94067	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/23/99	93936	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/26/99	94187	(ML/S2510B)	Specific Conductance	500	umho/cm	4.0	1
03/23/99	03/24/99	94069	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	03/31/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	211	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	3.04	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	17.8	mg/l	0.10	1
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	20.0	mg/l	1.0	1
	03/24/99	94194	(ML/EPA 300.0)	Nitrate-N by IC	0.94	mg/l	0.10	1

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**Laboratory
Report
#52867**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
03/23/99	03/24/99	94070	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/25/99	94107	(ML/SM 4500HB)	Lab pH	7.5	Units	0.0010	1
	03/24/99	94196	(ML/EPA 300.0)	Sulfate	52	mg/l	2.0	1
	03/30/99	94385	(ML/S2540C)	Total Dissolved Solid (TDS)	320	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/29/99	94340	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/29/99	94340	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/29/99	94340	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

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Laboratory**Report****#52867****Foster Wheeler Environmental, Inc
(continued)**

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/29/99	94340	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

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**Laboratory
Report
#52867**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-079 (990323256) Sampled on 03/23/99								
	03/26/99	94205	(ML/SM2320B)	Alkalinity	168	mg/l	2.0	1
	03/31/99		(ML/SM1040)	Anion Sum	4.32	meq/l	0.0010	1
03/23/99	03/29/99	94244	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	43.7	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	4.29	meq/l	0.0010	1
	03/24/99	94190	(ML/EPA 300)	Chloride	10	mg/l	1.0	1
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/31/99		(ML/SM2320B)	Carbonate as CO ₃ , Calculated	0.530	mg/l	0.0010	1
03/23/99	03/24/99	94067	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/23/99	93936	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/26/99	94188	(ML/S2510B)	Specific Conductance	425	umho/cm	4.0	1
03/23/99	03/24/99	94069	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	03/31/99		(ML/SM2320B)	Bicarbonate as HCO ₃ ,calculated	205	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	2.80	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	13.9	mg/l	0.10	1
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	22.3	mg/l	1.0	1
	03/24/99	94194	(ML/EPA 300.0)	Nitrate-N by IC	0.98	mg/l	0.10	1
03/23/99	03/24/99	94070	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/25/99	94107	(ML/SM 4500HB)	Lab pH	7.6	Units	0.0010	1
	03/24/99	94196	(ML/EPA 300.0)	Sulfate	29	mg/l	2.0	1
	03/30/99	94385	(ML/S2540C)	Total Dissolved Solid (TDS)	260	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/29/99	94340	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#52867****Foster Wheeler Environmental, Inc**
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/29/99	94340	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/29/99	94340	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/29/99	94340	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#52867**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/29/99	94340	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	110	% Rec		
			(Surrogate)	4-Bromofluorobenzene	102	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

MW-991-042 (990323257)**Sampled on 03/23/99**

	03/26/99	94205	(ML/SM2320B)	Alkalinity	169	mg/l	2.0	1
	03/31/99		(ML/SM1040)	Anion Sum	5.12	meq/l	0.0010	1
03/23/99	03/29/99	94244	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/24/99	03/24/99	93999	(ML/EPA 200.7)	Calcium, Total, ICAP	55.2	mg/l	1.0	1
	03/24/99		(ML/SM1040)	Cation Sum	5.18	meq/l	0.0010	1
	03/24/99	94190	(ML/EPA 300)	Chloride	20	mg/l	1.0	1
	03/24/99	94011	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/31/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.336	mg/l	0.0010	1
03/23/99	03/24/99	94067	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/23/99	93936	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/26/99	94188	(ML/S2510B)	Specific Conductance	495	umho/cm	4.0	1
03/23/99	03/24/99	94069	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	03/31/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	206	mg/l	0.0010	1
03/24/99	03/24/99	94003	(ML/EPA 200.7)	Potassium, Total, ICAP	2.94	mg/l	1.0	1
03/24/99	03/24/99	94005	(ML/EPA 200.7)	Magnesium, Total, ICAP	17.7	mg/l	0.10	1
03/24/99	03/24/99	94009	(ML/EPA 200.7)	Sodium, Total, ICAP	20.4	mg/l	1.0	1
	03/24/99	94194	(ML/EPA 300.0)	Nitrate-N by IC	2.2	mg/l	0.10	1

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Laboratory**Report****#52867****Foster Wheeler Environmental, Inc**
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
03/23/99	03/24/99	94070	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/25/99	94107	(ML/SM 4500HB)	Lab pH	7.4	Units	0.0010	1
	03/24/99	94196	(ML/EPA 300.0)	Sulfate	49	mg/l	2.0	1
	03/30/99	94385	(ML/S2540C)	Total Dissolved Solid (TDS)	330	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/29/99	94340	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/29/99	94340	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/29/99	94340	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

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**Laboratory
Report
#52867**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/29/99	94340	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/29/99	94340	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	106	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

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Laboratory**QC Report****#52867**

Foster Wheeler Environmental, Inc

QC Batch #93936**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323257		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0483	96.6	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0495	99.0	(78.00 - 118.00)	2.5
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0501	100.2	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0495	99.0	(80.00 - 120.00)	1.2

QC Batch #93999**Calcium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.8	103.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	52.4	104.8	(85.00 - 115.00)	1.2
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	53.7	107.4	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	52.1	104.2	(70.00 - 130.00)	3.0

QC Batch #94003**Potassium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.3	101.5	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.4	102.0	(80.00 - 110.00)	0.49
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	21.2	106.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.9	104.5	(80.00 - 120.00)	1.4

QC Batch #94005**Magnesium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	21.1	105.5	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	21.3	106.5	(85.00 - 115.00)	0.94

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Laboratory**QC Report****#52867**

Foster Wheeler Environmental, Inc
(continued)

MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	21.6	108.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	21.3	106.5	(70.00 - 130.00)	1.4

QC Batch #94009**Sodium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0316191		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	50.9	101.8	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	51.1	102.2	(85.00 - 115.00)	0.39
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	51.7	103.4	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	50.8	101.6	(70.00 - 130.00)	1.8

QC Batch #94011**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0319303		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	19.8	99.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.4	97.0	(90.00 - 110.00)	2.0
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.8	104.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.1	105.5	(75.00 - 125.00)	1.4

QC Batch #94067**Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0321257		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	97	97.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	97	97.0	(85.00 - 115.00)	0.00
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	98	98.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	96	96.0	(70.00 - 130.00)	2.1

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QC Report

#52867

Foster Wheeler Environmental, Inc
(continued)**QC Batch #94069****Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323257		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	493	98.6	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	502	100.4	(85.00 - 115.00)	1.8
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	494	98.8	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	494	98.8	(70.00 - 130.00)	0.00

QC Batch #94070**Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323257		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	20.5	102.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	19.8	99.0	(85.00 - 115.00)	3.5
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.0	105.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	20.0	100.0	(70.00 - 130.00)	4.9

QC Batch #94107**Lab pH**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0325068		(0.00 - 0.00)	

QC Batch #94187**Specific Conductance**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0323255		(0.00 - 0.00)	

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QC Report
#52867**Foster Wheeler Environmental, Inc
(continued)**QC Batch #94188****Specific Conductance**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0325083		(0.00 - 0.00)	

QC Batch #94190**Chloride**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323254		(0.00 - 0.00)	
LCS1	Chloride	25	25.5	102.0	(90.00 - 110.00)	
LCS2	Chloride	25	25.6	102.4	(90.00 - 110.00)	0.39
MBLK	Chloride	ND				
MS	Chloride	25	26.5	106.0	(80.00 - 120.00)	
MSD	Chloride	25	25.5	102.0	(80.00 - 120.00)	3.8

QC Batch #94194**Nitrate-N by IC**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323014		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.57	102.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.57	102.8	(90.00 - 110.00)	0.00
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.57	102.8	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.59	103.6	(80.00 - 120.00)	0.78

QC Batch #94196**Sulfate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323014		(0.00 - 0.00)	
LCS1	Sulfate	50	50.5	101.0	(90.00 - 110.00)	
LCS2	Sulfate	50	50.7	101.4	(90.00 - 110.00)	0.40
MBLK	Sulfate	ND				

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Laboratory

QC Report

#52867

Foster Wheeler Environmental, Inc
(continued)

MS	Sulfate	50	52.6	105.2	(80.00 - 120.00)	
MSD	Sulfate	50	52.9	105.8	(80.00 - 120.00)	0.57

QC Batch #94205**Alkalinity**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0318765		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	98.1	102.0	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	98.0	101.9	(90.00 - 110.00)	0.10
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	87.0	90.4	(80.00 - 120.00)	
MSD	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	2.3

QC Batch #94244**Arsenic, Total, GF**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0323257		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0200	100.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0202	101.0	(85.00 - 115.00)	1.00
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0206	103.0	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0202	101.0	(70.00 - 130.00)	2.0

QC Batch #94340**Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.67	91.8	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.11	102.8	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.87	96.8	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.96	99.0	(70.00 - 130.00)	

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**Laboratory
QC Report
#52867****Foster Wheeler Environmental, Inc
(continued)**

MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.61	90.2	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.45	86.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.66	91.5	(70.00 - 130.00)	5.9
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.94	98.5	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.77	94.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.03	100.8	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.81	97.6	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.90	97.5	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0323257		(0.00 - 0.00)	
LCS1	Benzene	4	3.77	94.2	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.49	87.2	(70.00 - 130.00)	
MSD	Benzene	4	3.96	99.0	(70.00 - 130.00)	13
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.98	99.5	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.96	99.0	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				

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**Laboratory
QC Report
#52867****Foster Wheeler Environmental, Inc
(continued)**

MS	Chlorobenzene	4	3.58	89.5	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.90	97.5	(70.00 - 130.00)	8.6
LCS1	Carbon Tetrachloride	4	3.65	91.2	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.03	75.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.57	89.2	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane (Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.37	84.2	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.71	92.8	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	3.94	98.5	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	3.82	95.5	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	1.78	89.0	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	7.64	95.5	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	3.90	97.5	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.04	101.0	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	3.73	93.2	(70.00 - 130.00)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

**MONTGOMERY WATSON LABORATORIES**

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street

Pasadena, California 91101

Tel: 626 568 6400 Fax: 626 568 6324

1 800 566 LABS (1 800 566 5227)

**Laboratory
QC Report
#52867**Foster Wheeler Environmental, Inc
(continued)

MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.95	98.8	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	94.9	94.9	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	102	102.0		
MS	1,2-dichloroethane-d4	100	101	101.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 120.00)	3.9
LCS1	Toluene-d8	100	101	101.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	98.3	98.3		
MS	Toluene-d8	100	95.7	95.7	(80.00 - 120.00)	
MSD	Toluene-d8	100	101	101.0	(80.00 - 120.00)	5.4
LCS1	4-Bromofluorobenzene	100	94.3	94.3	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	97.1	97.1		
MS	4-Bromofluorobenzene	100	98.4	98.4	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	98.0	98.0	(80.00 - 120.00)	0.41
LCS1	trans-1,2-Dichloroethylene	4	4.09	102.2	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.73	93.2	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	3.67	91.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.85	96.2	(70.00 - 130.00)	4.8
LCS1	Trichlorotrifluoroethane (Freon)	2	1.81	90.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon)	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.88	97.0	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.68	92.0	(70.00 - 130.00)	
MSD	Toluene	4	3.79	94.8	(70.00 - 130.00)	2.9
LCS1	Vinyl chloride (VC)	2	1.72	86.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

**MONTGOMERY WATSON LABORATORIES**

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street

Pasadena, California 91101

Tel: 626 568 6400 Fax: 626 568 6324

1 800 566 LABS (1 800 566 5227)

Laboratory

QC Report

#52867

Foster Wheeler Environmental, Inc
(continued)

QC Batch #94385**Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0323254		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	688	98.3	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.



MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

April 9, 1999

Foster Wheeler Environmental
611 Anton Blvd, Suite 800
Costa Mesa, CA. 92626

Attention: Mark Cutler

Re: Report # 52813 (MW-991-049, MW-991-065, MW-991-041)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):

None

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Other Comments:

1,4-Dioxane was detected in MW-991-041

Pacific Analytical, Inc utilizing EPA method 1625C, analyzed n-Nitrosodimethylamine, NDMA. This is a Gas Chromatographic Mass Spectroscopic methodology utilizing Isotope dilution in Specific Ion Mode, GCMS-SIM. This method does not require an MS/MSD. The reporting limit is 0.03 ppb or 30 ppt. Any detects below the MRL, but above the MDL of 0.005 ppb, would show on the Quantitation Results page. Results below 0.030 ppb but above 0.005 are DNQ (Detect Not Quantifiable) these are estimates only. A standard at 0.020 ug/ml, equivalent to a sample concentration of 0.020 ppb, is the lowest standard analyzed with the calibration. All samples are ND, <0.030 ppb.

Montgomery Watson Laboratories analyzed 1,4-Dioxane following EPA method 8270 in the standard operating mode. The Minimum reporting limit is 3.0 ppb.

TIC's:

None

Method Variance:

None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

Laboratory
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

Southwest Service Center
4820 South Mill Avenue - Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Northern California Service Center
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0005-0001
Group#: 52813
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 03/19/99. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
990319306	MW-991-049	@DIOXANE CUSTOMMS	Water	03/19/99
990319307	MW-991-065	@DIOXANE CUSTOMMS	Water	03/19/99
990319308	MW-991-041	@DIOXANE CUSTOMMS	Water	03/19/99

Test Acronym Description

Test Acronym	Description
@DIOXANE	1,4-Dioxane
CUSTOMMS	Custom GCMS Analysis



NUMBER 1-46

FOSTER WHEELER ENVIRONMENTAL CORPORATION

52813

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572.0265		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS													
PROJECT ADDRESS 4800 OAK GIZAVE DR PASADENA CA				ANALYSES REQUIRED 14-DIOXANE 1-DMA															
SAMPLER (Name) J. BENNER		SAMPLER (Signature) J. Benner																	
LABORATORY MONTGOMERY WATSON		REPORTS TO BE SENT TO MR. MARK CUTLER																	
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL														
					WATER	SOIL	OTHER (Describe)												
MW-991-049	1035	3/19/99	2	2 x 1.0L	X			X	X										
MW-991-049M3	1035		1	1 x 1.0L	X			X											
MW-991-049MSD	1035		1	1 x 1.0L	X			X											
MW-991-065	1540		2	2 x 1.0L	X			X	X										
MW-991-041	1730		2	2	X			X	X										

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

RELINQUISHED BY (Signature) J. Benner	DATE 3-19-99	RECEIVED BY (Signature) M. DE WESA	DATE 3-19-99	RECEIVED BY (Signature) H.W.
COMPANY F.W.E.C.	TIME 10:00	COMPANY H.W.	TIME	COMPANY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 3-19-99
 Use other side of this form to note further details concerning check-in problems
 and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 3-19-99
 by (print) Mike Chiang (sign) [Signature]

1. Did cooler come with shipping slip (air bill, etc.)? Yes ☒ No ☐
 If YES, attach & enter carrier and air bill # here: _____

2. Were custody seals on outside of cooler? Yes ☒ No ☐
 If YES, how many & where: See group 52812
 If Yes, enter the following: seal date: _____, seal name: _____

3. Were custody seals unbroken & intact at delivery? Yes ☒ No ☐

4. Were custody papers sealed in bag & taped to lid? Yes ☐ No ☒

5. Were custody papers filled out properly (ink, etc.)? Yes ☒ No ☐

6. Did you sign custody papers in appropriate place? Yes ☒ No ☐

7. Was project identifiable from custody papers? Yes ☒ No ☐

8. Have designated person(s) initial to acknowledge receipt: _____ (date) _____

B. LOG-IN PHASE: Date samples were logged-in: 3/19-99 by:
 (print) M. DE MEST (sign) [Signature]

9. Describe packing: _____

10. If required, was enough ice used? Yes ☒ No ☐

11. Were all bottles sealed in separate plastic bags? Yes ☒ No ☐

12. Did all bottles arrive unbroken/in good condition? Yes ☒ No ☐

13. Were all bottle labels complete (ID, date, sign, pres)? Yes ☒ No ☐

14. Did all bottle labels agree with custody papers?
 If NO, indicate discrepancies on back. Yes ☒ No ☐

15. Were correct containers used for the analytes? Yes ☒ No ☐

16. Were correct preservatives used when required? Yes ☒ No ☐

17. Was sufficient amount of sample sent for tests? Yes ☒ No ☐

18. Bubbles absent in VOA vials? Yes ☐ No ☒
 If NO, list by sample id on back.

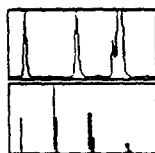
19. Was Client Services informed of problems? Yes ☐ No ☐

Report Summary of positive results, PR52813

			Result	MDL	UNITS
Analyzed	990319306	MW-991-049			
03/26/99	Custom GCMS Analysis		SUB PAI		NONE
Analyzed	990319307	MW-991-065			
03/26/99	Custom GCMS Analysis		SUB PAI		NONE
Analyzed	990319308	MW-991-041			
03/29/99	1,4-Dioxane		3.7	3.000	UGL
03/26/99	Custom GCMS Analysis		SUB PAI		NONE

Semi-Volatiles DATA SUMMARY PACKAGE

CLIENT: MONTGOMERY WATSON
JOB #: P80 - MWL Project # 52813
DATE: MARCH 26, 1999



Pacific Analytical, Inc.

6349 Paseo Del Lago □ Carlsbad, CA 92009

(760) 438-3100

NARRATIVE REPORT
Method 1625C Semivolatiles

PA Reference: P80

03/26/99

Samples: MW-991-041, MW-991-049, MW-991-065

Semivolatiles analysis:

The samples were extracted and analyzed by Method 1625C, modified for the lowest possible detection limits. A 1000 mL aliquot was spiked with 1.0 ug of deuterated N-Nitrosodimethylamine-d6 and extracted with liquid-liquid extractors for 24 hours. The sample extract was concentrated to a final volume of 1.0 mL and then spiked with 1.0 ug of 2,2'-Difluorobiphenyl as an internal recovery standard. The extract was analyzed by GC/MS with the mass spectrometer operating in the "Specific Ion Mode" for greater sensitivity and lower detection limits. The instrument was calibrated with five initial calibration standards ranging from 0.02 ug/mL to 1.00 ug/mL. A recent minimum detection limit study suggests that the instrument is capable of detecting N-Nitrosodimethylamine (NNDMA) at 0.005 ug/mL. However for reporting purposes, our detection limit is 0.03 ug/mL which translates to a sample concentration of 0.03 ug/L.

On-Going Precision and Recovery

A laboratory blank (P&R) was spiked with 0.10 ug of NNDMA and its labeled analog, and extracted and analyzed like a sample for each analytical batch. Recoveries for NNDMA and its label were within method specified recovery limits.

Blank

A laboratory blank was extracted and analyzed like the sample with each extraction batch. NNDMA was not detected at or above our report limit of 0.03 ug/L.

Samples

The samples MW-991-038, MW-991-041, MW-991-049 and MW-991-065 are clean with no NNDMA detected.

The data package consists of a summary page followed by a chromatogram and a close up of the extracted ion current profile of NNDMA and its label. This is followed by the raw data printout with areas and scan numbers, and finally a "Quantitation Results" page which lists extract concentrations in ug/mL.

Please contact Chris Burbach or Steve Parsons at (760) 438-3100 if there are any questions concerning this data package.



Chris Burbach
GC/MS Chemist

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

MW-991-041

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: P8002
Lab File ID: 6025A18
Date Sampled: 03/19/99
Date Extracted: 03/24/99
Date Analyzed: 03/26/99
Time Analyzed: 0107

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	92 %

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

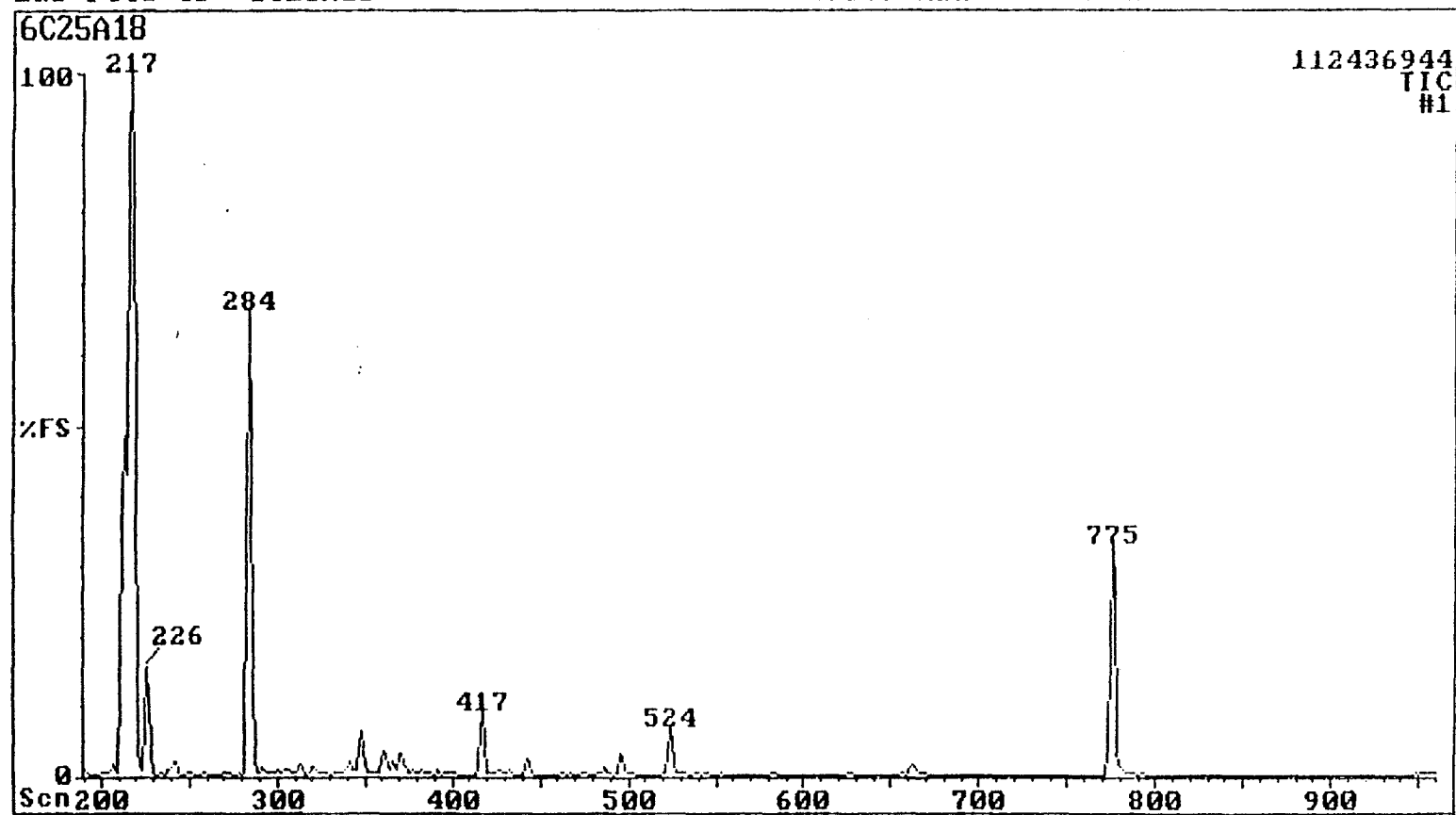
PQL = 0.03 ug/L

Sample No.: MW-991-041

Lab File ID: 6C25A18

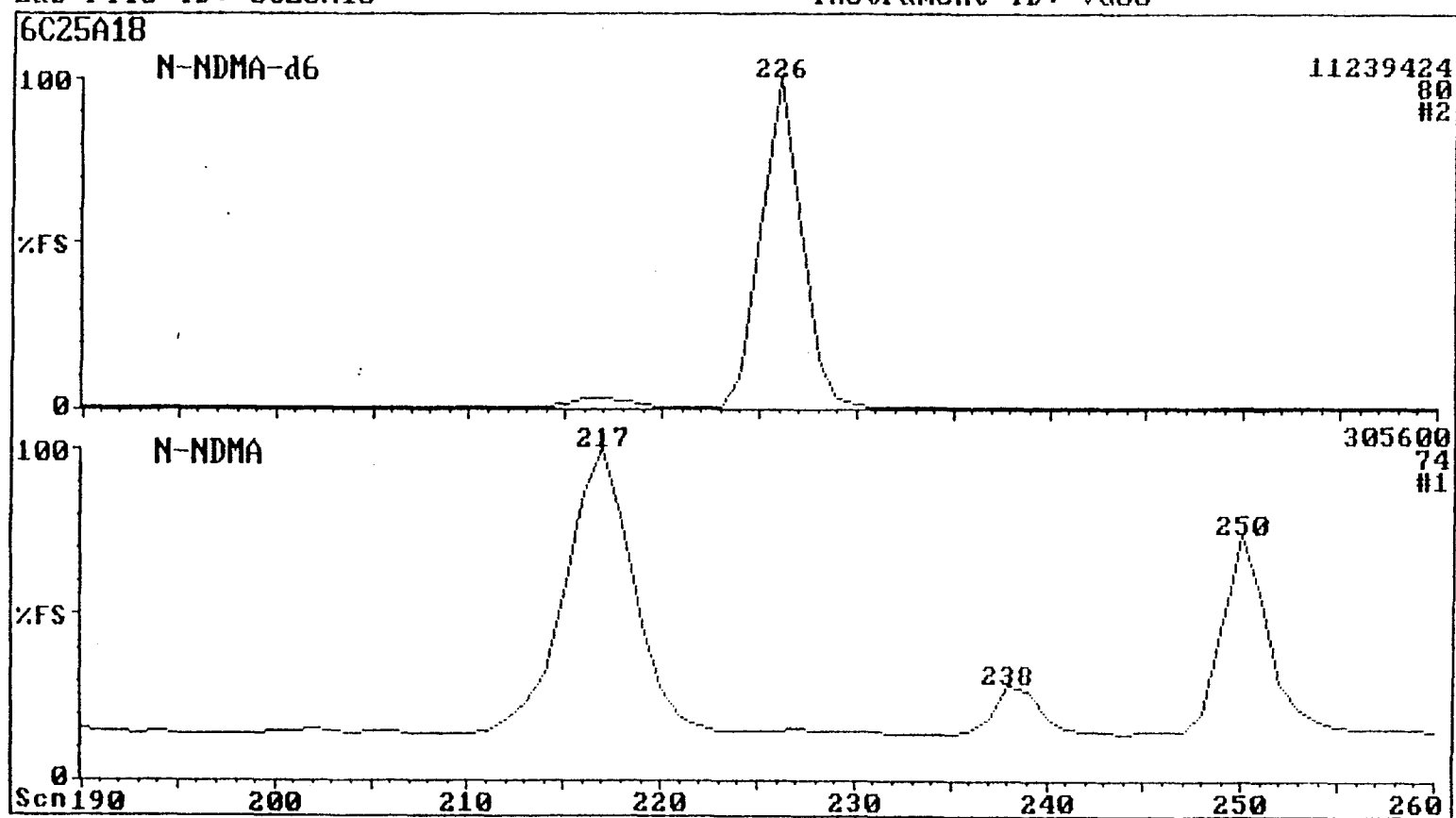
Analyzed: 03/26/99 0107

Instrument ID: VG06



Sample No.: MW-991-041
Lab File ID: 6C25A18

Analyzed: 03/26/99 0107
Instrument ID: VG06



Sample: MW-991-Q41 P8002 Analyzed: 03/26/99 0107
 Lab File: 6C25A18 Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	0816
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=====

Raw Datafile : 6C25A18 Quan DB : 6C25A18
 Find DB : NNDMA Scan DB : NONE

No.	Spectrum Scan				Peak	Scan		QM Compound Name	
	MAT	FOR	REV	Diff	Area Flgs	Found	Pred		
1	100	90	100	1	101024985	b?	775	774	190 2,2'-Difluorobiphenyl
2	100	95	99	0	26769825	b?	226	226	80 N-Nitrosodimethylamine-d6
3	66	37	78	3	656	!!	233	230	74 N-Nitrosodimethylamine
	47	20	90	8	130783	v?	238		

Quantitation Results

=====

EPA Name: MW-991-041	Lab ID: P8002	Lab File: 6C25A18
Instr: 06	ICAL: 6C25	Acquisition Date: 03/26/97 Acquisition Time: 0107

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	91.6	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

MW-991-049

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: PS003
Lab File ID: 6C25A19
Date Sampled: 03/19/99
Date Extracted: 03/24/99
Date Analyzed: 03/26/99
Time Analyzed: 0149

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	89 %

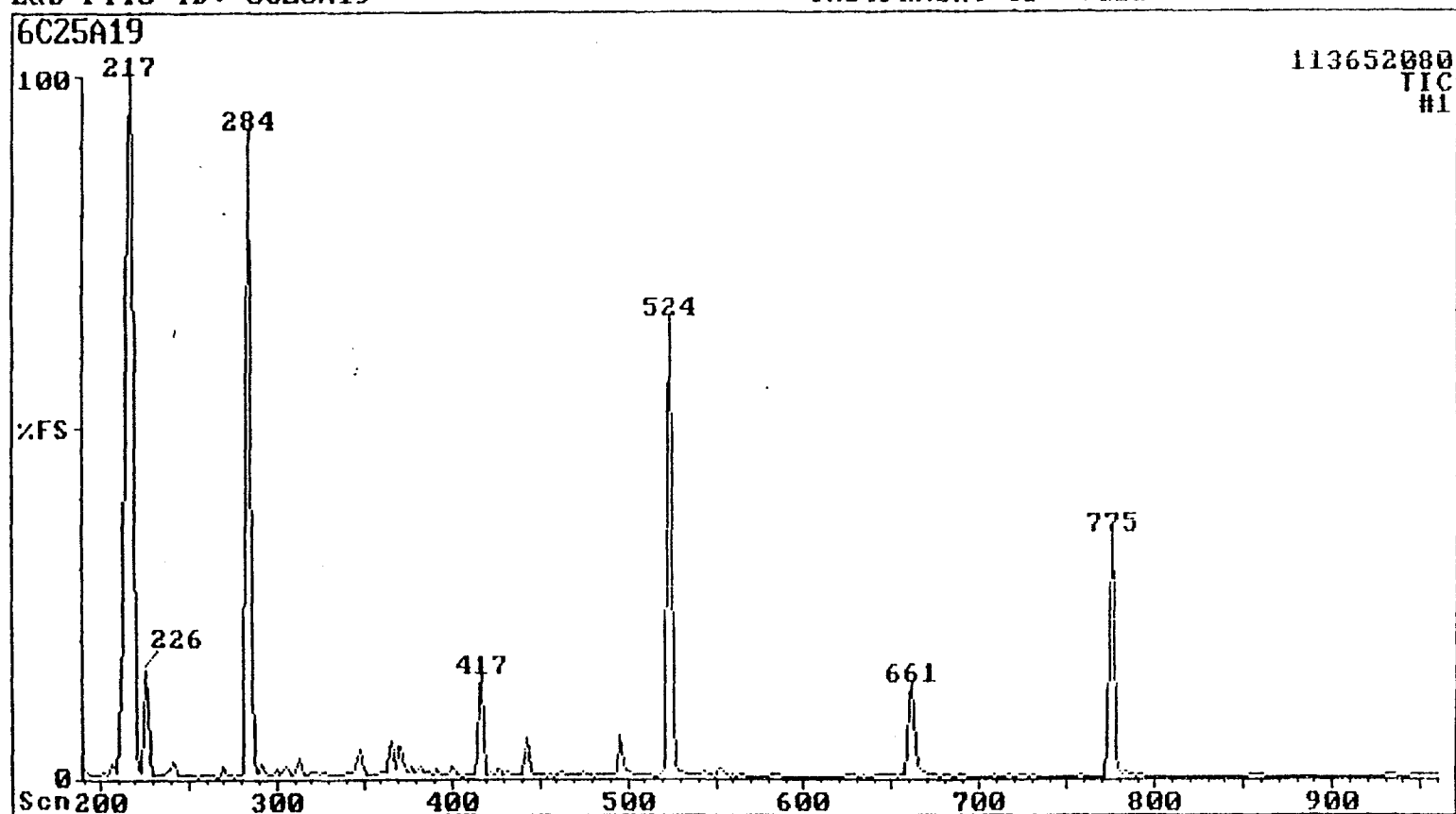
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

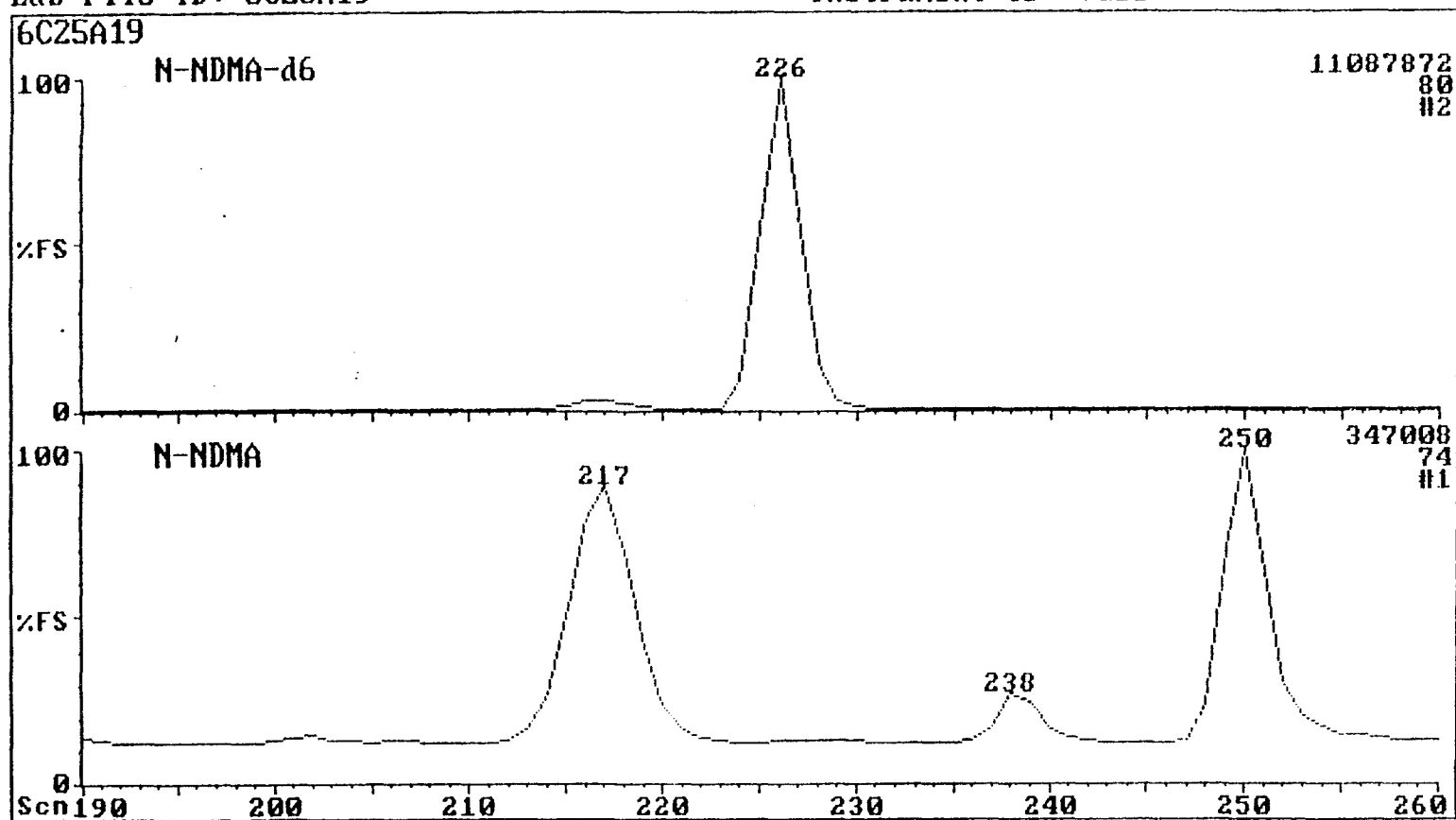
Sample No.: MW-991-049
Lab File ID: 6C25A19

Analyzed: 03/26/99 0149
Instrument ID: VG06



Sample No.: MW-991-049
Lab File ID: 6C25A19

Analyzed: 03/26/99 0149
Instrument ID: VG06



Sample: MW-991-049 P8003 Analyzed: 03/26/99 0149
 Lab File: 6C25A19 Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	0817
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=====

Raw Datafile : 6C25A19 Quan DB : 6C25A19
 Find DB : NNDMA Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		QM	Compound Name
	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred		
1	100	90	100	1	102096472	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	94	99	0	26391480	b?	226	226	80	N-Nitrosodimethylamine-d6
3	67	37	74	2	1936	!!	232	230	74	N-Nitrosodimethylamine
	45	20	65	8	140192	b?	238			

Quantitation Results

=====

EPA Name: MW-991-049	Lab ID: P8003	Lab File: 6C25A1
Instr: 06	ICAL: 6C25	Acquisition Date: 03/26/99 Acquisition Time: 0149

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	89.3	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

MW-991-065

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: PB004
Lab File ID: 6C25A20
Date Sampled: 03/19/99
Date Extracted: 03/24/99
Date Analyzed: 03/26/99
Time Analyzed: 0230

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	91 %

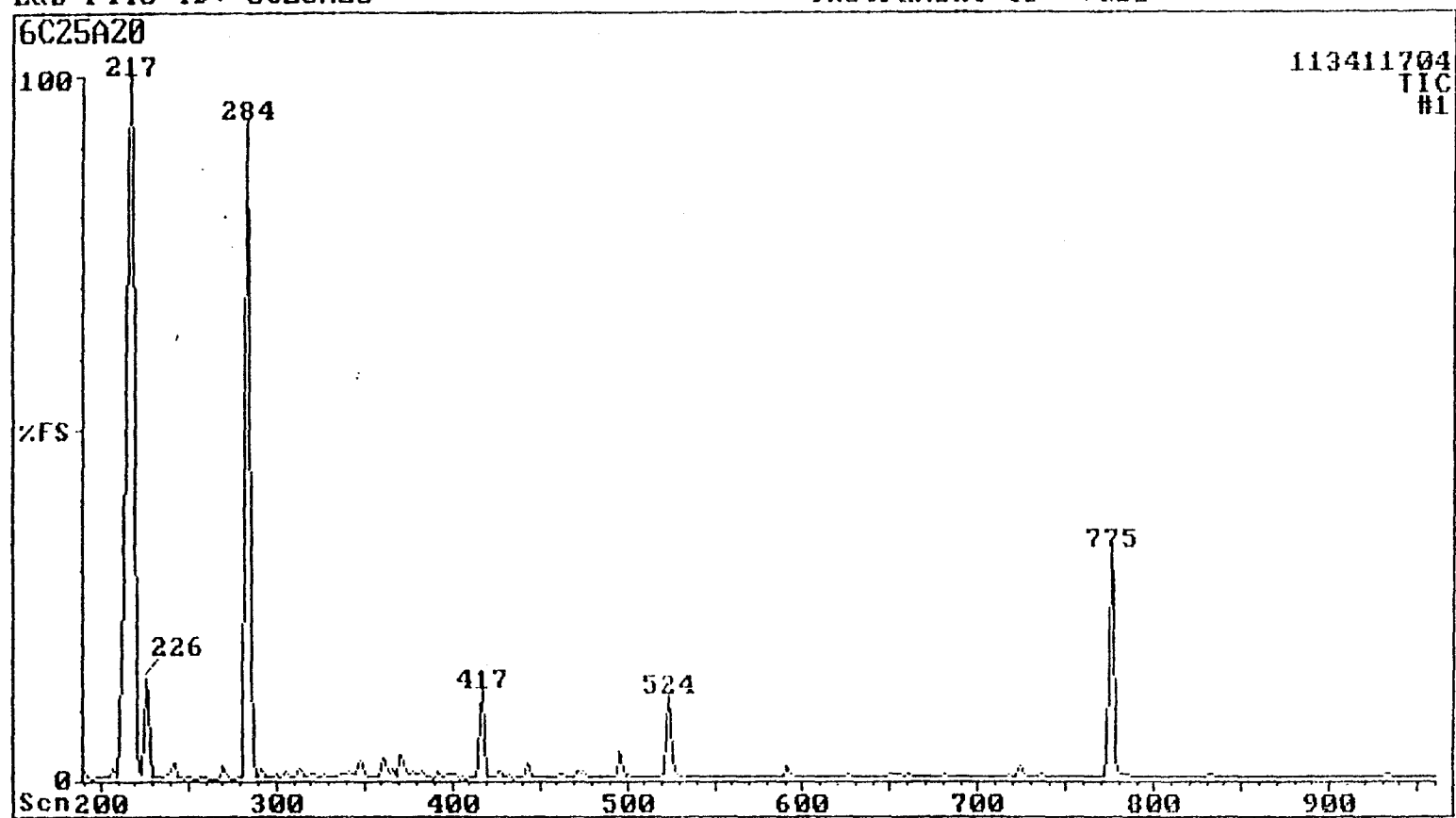
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

Sample No.: MW-991-065
Lab File ID: 6C25A20

Analyzed: 03/26/99 0230
Instrument ID: VG06

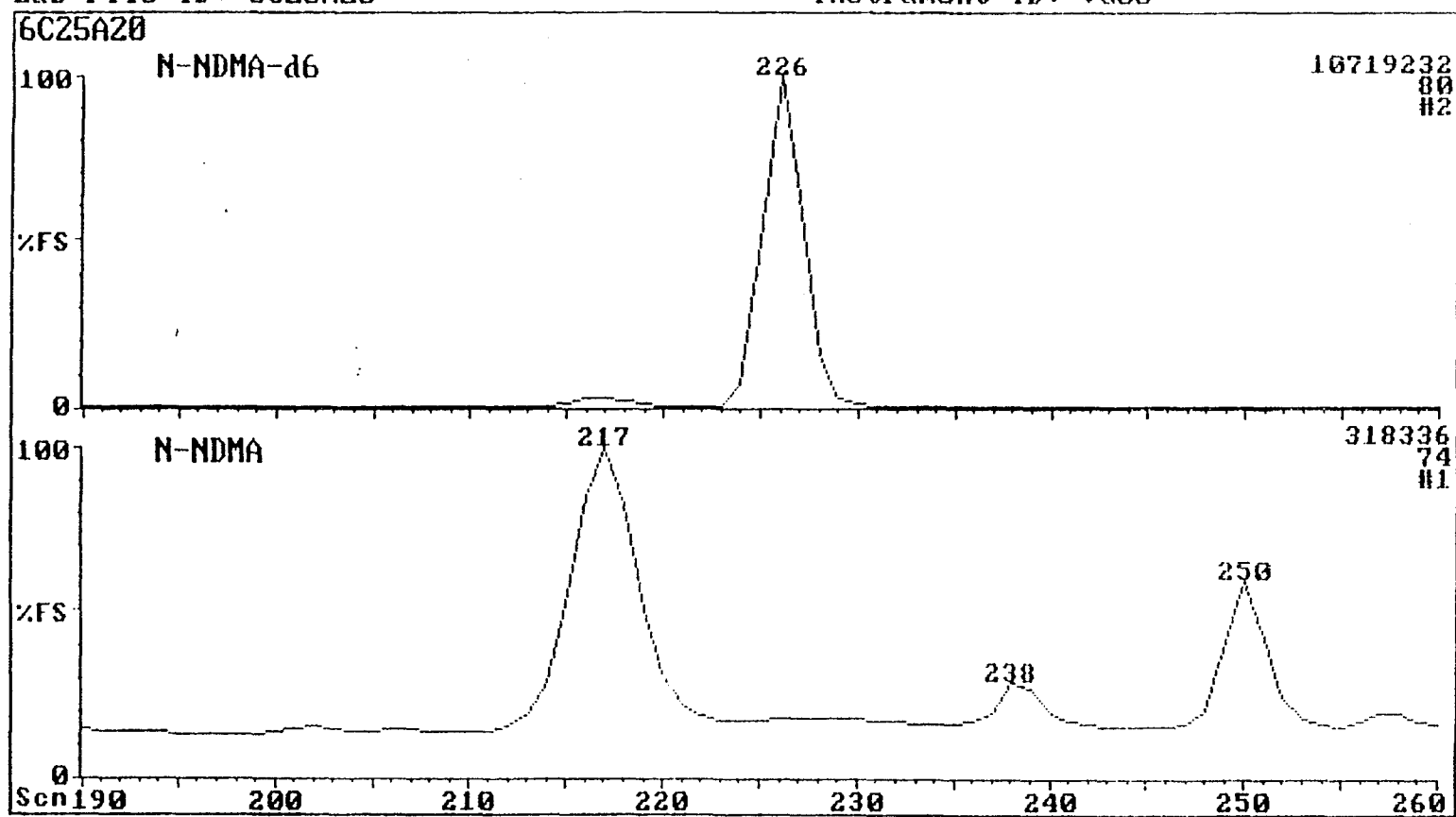


Sample No.: MW-991-065

Analyzed: 03/26/99 0230

Lab File ID: 6C25A20

Instrument ID: VG06



Sample: MW-991-065
Lab File: 6C25A20

P8004

Analyzed: 03/26/99 0230
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0818

Raw Datafile : 6C25A20
Find DB : NNDMA

Quan DB : 6C25A20
Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		QM Compound Name	
	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred		
1	100	90	100	1	96656996	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	94	99	0	25433920	b?	226	226	80	N-Nitrosodimethylamine-d6
3	70	38	79	0	12373	!!	230	230	74	N-Nitrosodimethylamine
	48	24	87	8	109520	!!	238			

Quantitation Results

=====

EPA Name: MW-991-065	Lab ID: P8004	Lab File: 6C25A2
Instr: 06	ICAL: 6C25	Acquisition Date: 03/26/99 Acquisition Time: 0230

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	91.0	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
LABELED COMPOUNDS

Lab Name: PACIFIC ANALYTICAL

Instr. ID: V906

Calibration Date: 03/25/99

LAB FILE IDs:

RF 0.02 = 6025A05
RF 0.05 = 6025A06
RF 0.10 = 6025A07
RF 0.50 = 6025A08
RF 1.00 = 6025A09

COMPOUND	RF 0.02	RF 0.05	RF 0.10	RF 0.50	RF 1.00	RF MEAN	% RSD
2,4-Dinitrosodimethylamine-	0.287	0.295	0.287	0.295	0.280	0.287	2.1

Internal Standard = 1 ug/mL

Pollutant Compounds = 0.02, 0.05, 0.10, 0.50, 1.00 ug/mL

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
COMPOUNDS HAVING A LABELED REFERENCE

Lab Name: PACIFIC ANALYTICAL

Instr. ID: VG06

Calibration Date: 03/25/99

LAB FILE IDs:

RF 0.02 = 6025A05
RF 0.05 = 6025A06
RF 0.10 = 6025A07
RF 0.50 = 6025A08
RF 1.00 = 6025A09

COMPOUND	RR 0.02	RR 0.05	RR 0.10	RR 0.50	RR 1.00	SLOPE	INTCP
3 N-Nitrosodimethylamine	0.016	0.043	0.083	0.420	0.543	1.136	0.001

Internal Standard = 1 ug/mL

Pollutant Compounds = 0.02, 0.05, 0.10, 0.50, 1.00 ug/mL

Sample: 0.02 PPM STD NSTDO.02 Analyzed: 03/25/99 1605
 Lab File: 6025A05 Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	0734
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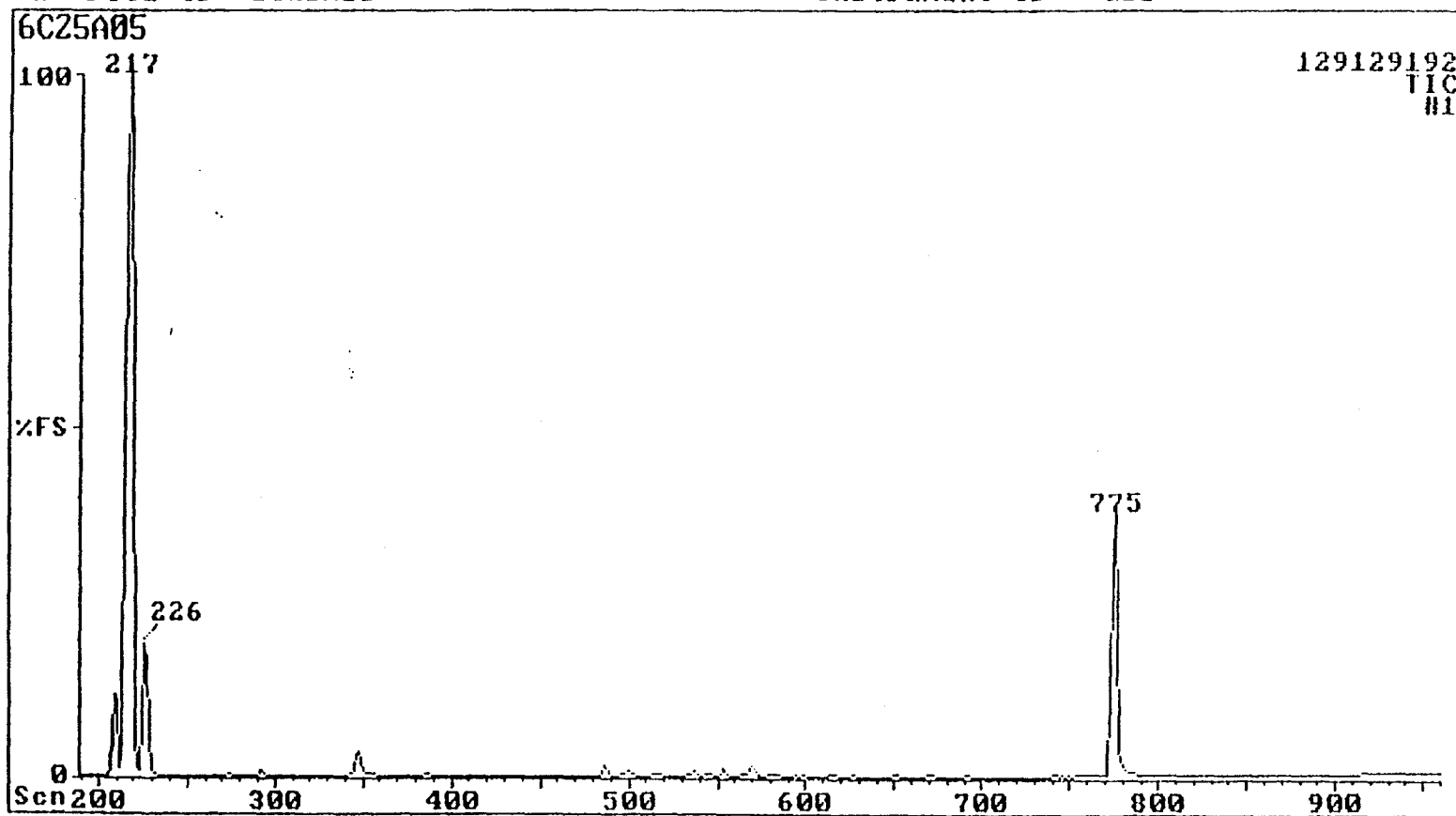
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Raw Datafile : 6025A05 Quan DB : 6025A05
 Find DB : NNDMA Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		QM Compound Name
	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred	
1	100	89	100	1	142039503	b?	775	774	190 2,2'-Difluorobiphenyl
2	100	96	100	0	40628079	b?	226	226	90 N-Nitrosodimethylamine-d6
3	94	89	93	-1	666664	bb	229	230	74 N-Nitrosodimethylamine

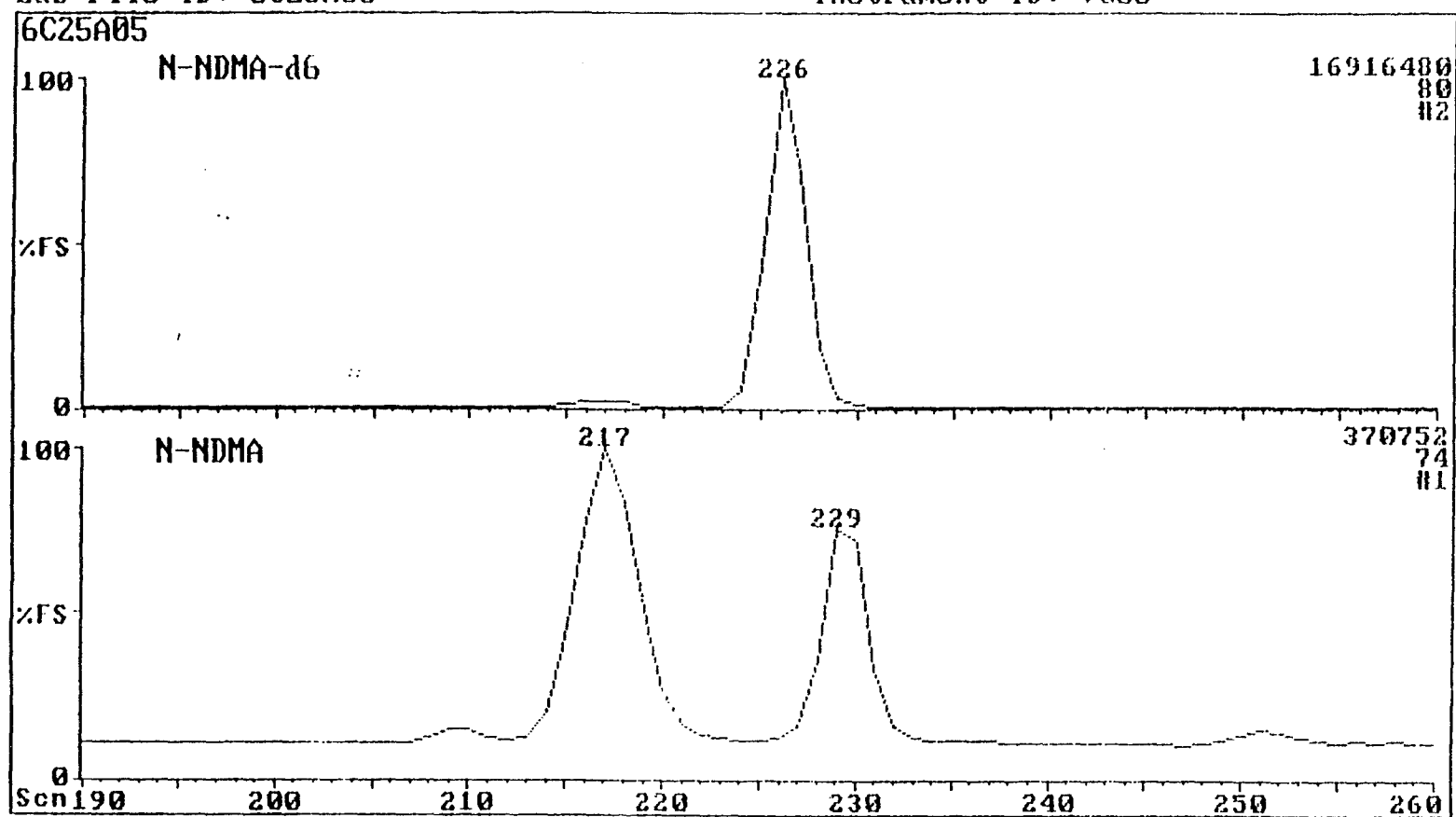
Sample No.: 0.02 PPM STD
Lab File ID: 6C25A05

Analyzed: 03/25/99 1605
Instrument ID: VG06



Sample No.: 0.02 PPM STD
Lab File ID: 6C25A05

Analyzed: 03/25/99 1605
Instrument ID: VG06



Sample: 0.05 PPM STD NSTDO.05 Analyzed: 03/25/99 1646
 Lab File: 6C25A06 Instrument ID: 06

=====

Interim Report LAB-BASE FIND 03/26/99 0734

=====

Raw Datafile : 6C25A06 Quan DB : 6C25A06
 Find DB : NNDMA Scan DB : NONE

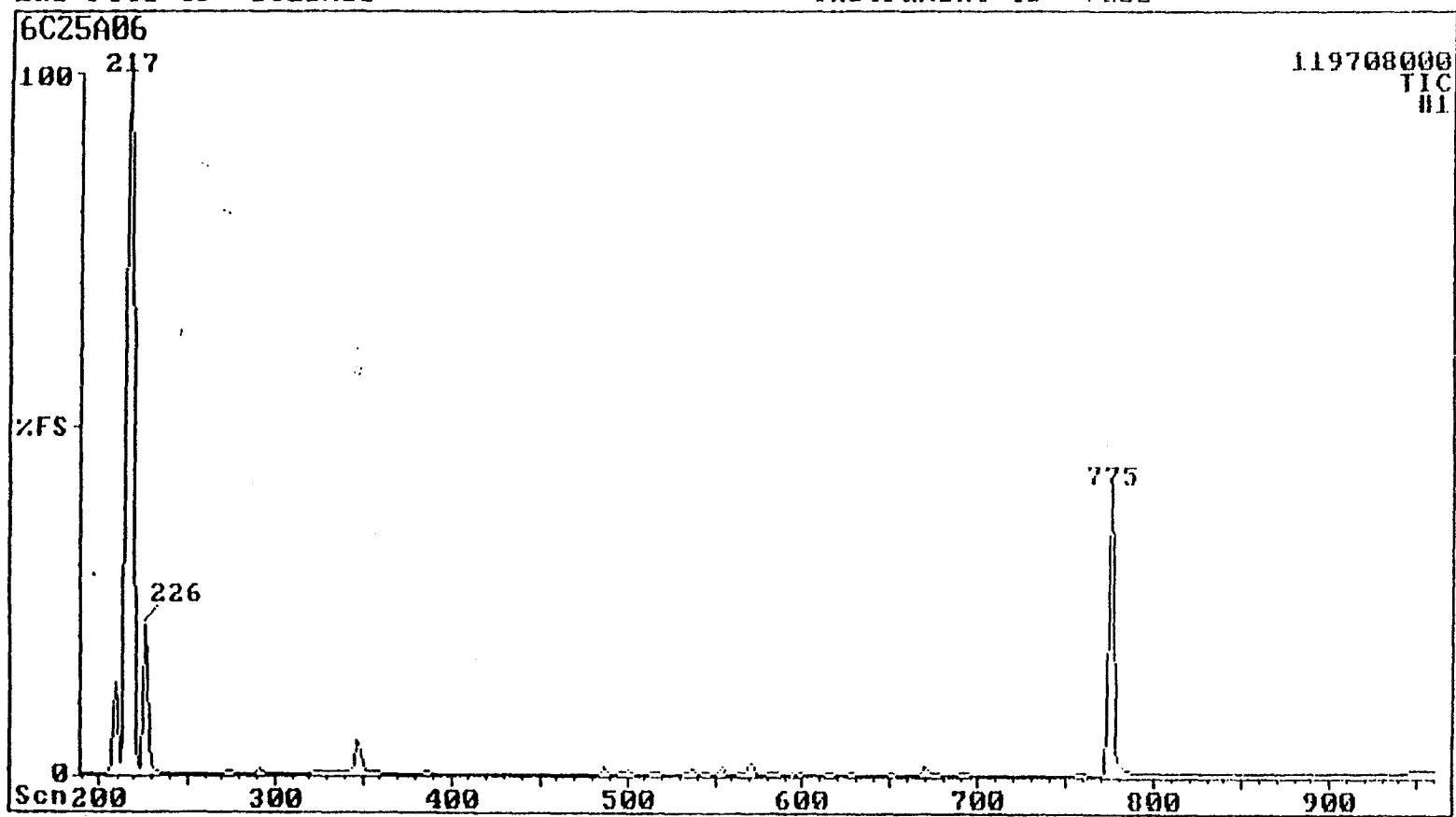
No.	Spectrum Scan				Peak Area	Flgs	Scan		QM	Compound Name
	MAT	FDR	REV	Diff			Found	Pred		
1	100	90	100	1	135675981	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	96	99	0	40050321	b?	226	226	80	N-Nitrosodimethylamine-d6
3	97	64	97	-1	1707320	b?	229	230	74	N-Nitrosodimethylamine

Sample No.: 0.05 PPM STD

Lab File ID: 6C25A06

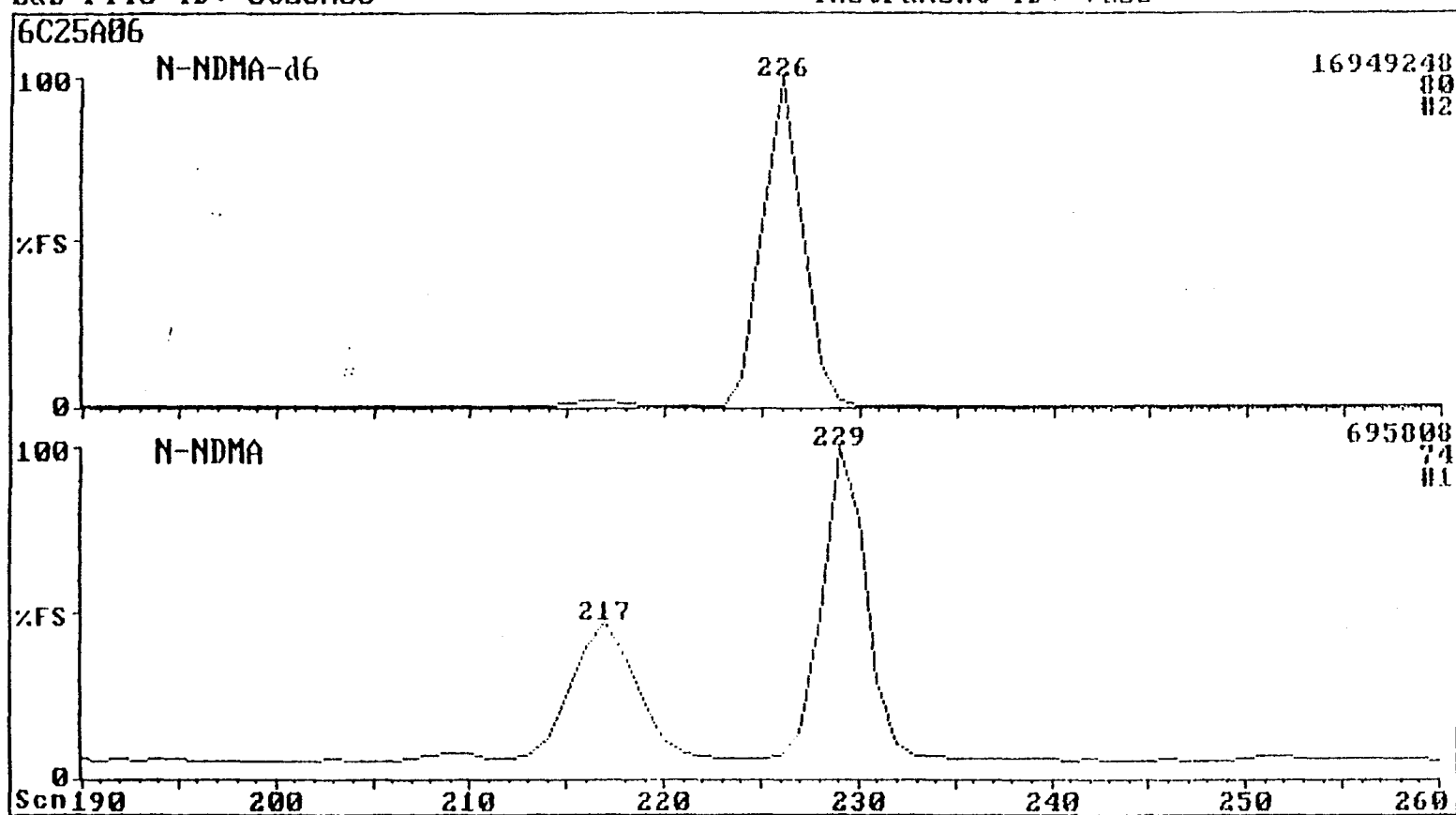
Analyzed: 03/25/99 1646

Instrument ID: VG06



Sample No.: 0.05 PPM STD
Lab File ID: 6C25A06

Analyzed: 03/25/99 1646
Instrument ID: VG06



Sample: 0.10 PPM STD NSTDO.10 Analyzed: 03/25/99 17:
 Lab File: 6025A07 Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/25/99	07:
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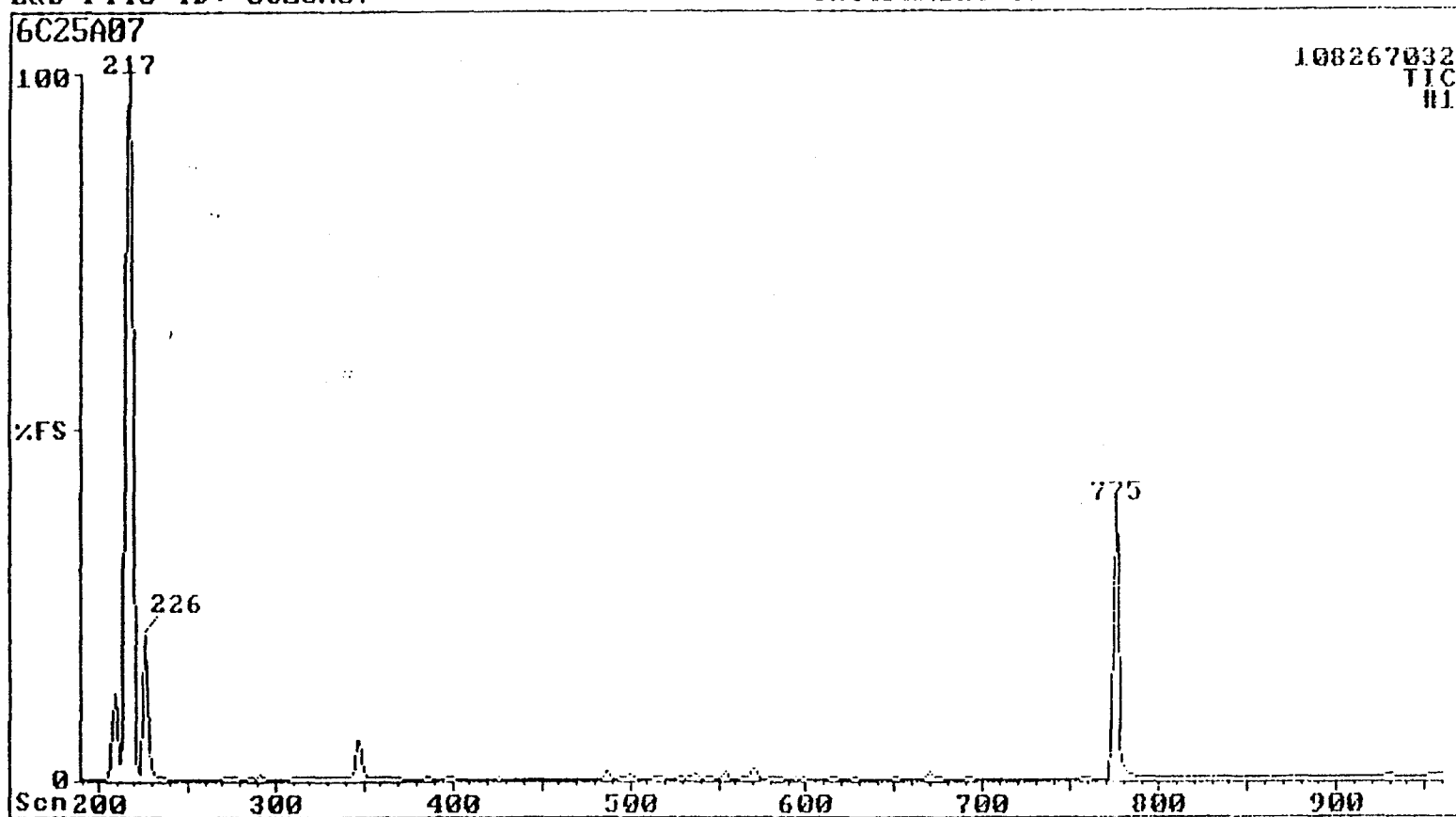
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Raw Datafile : 6025A07	Quan DB : 6025A07
Find DB : NNDMA	Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		QM Compound Name
	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred	
1	100	90	100	1	119506948	b?	775	774	190 2,2'-Difluorobiphenyl
2	100	95	99	0	24487449	b?	226	226	90 N-Nitrosodimethylamine-d.
3	100	77	98	-1	2860496	b?	229	230	74 N-Nitrosodimethylamine

Sample No.: 0.10 PPM STD
Lab File ID: 6C25A07

Analyzed: 03/25/99 1728
Instrument ID: VG06

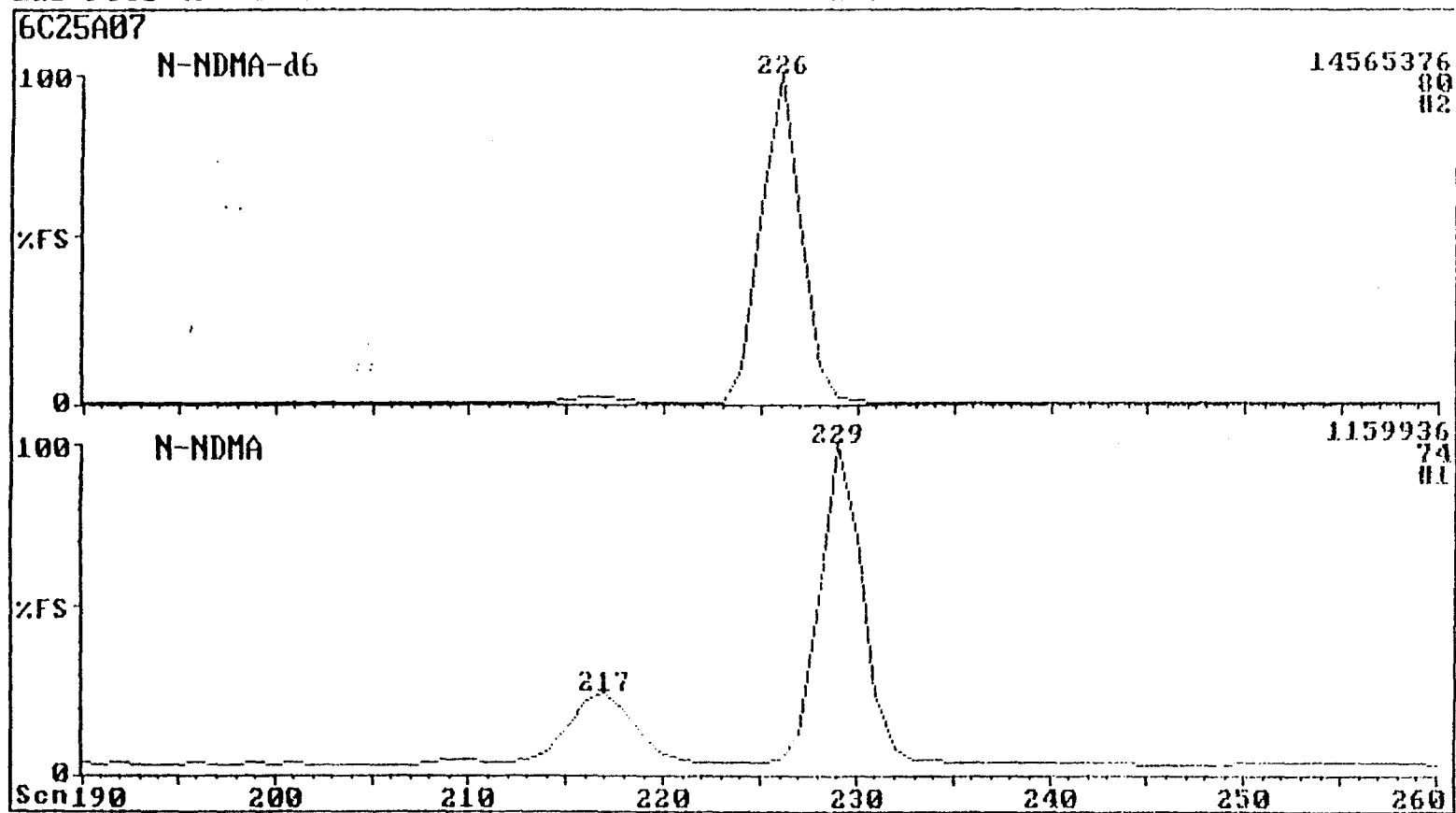


Sample No.: 0.10 PPM STD

Analyzed: 03/25/99 1728

Lab File ID: 6C25A07

Instrument ID: VG06



Sample: 0.50 PPM STD NSTDO.50 Analyzed: 03/25/99 1810
 Lab File: 6025A08 Instrument ID: 06

=====

Interim Report LAB-BASE FIND 03/26/99 0736

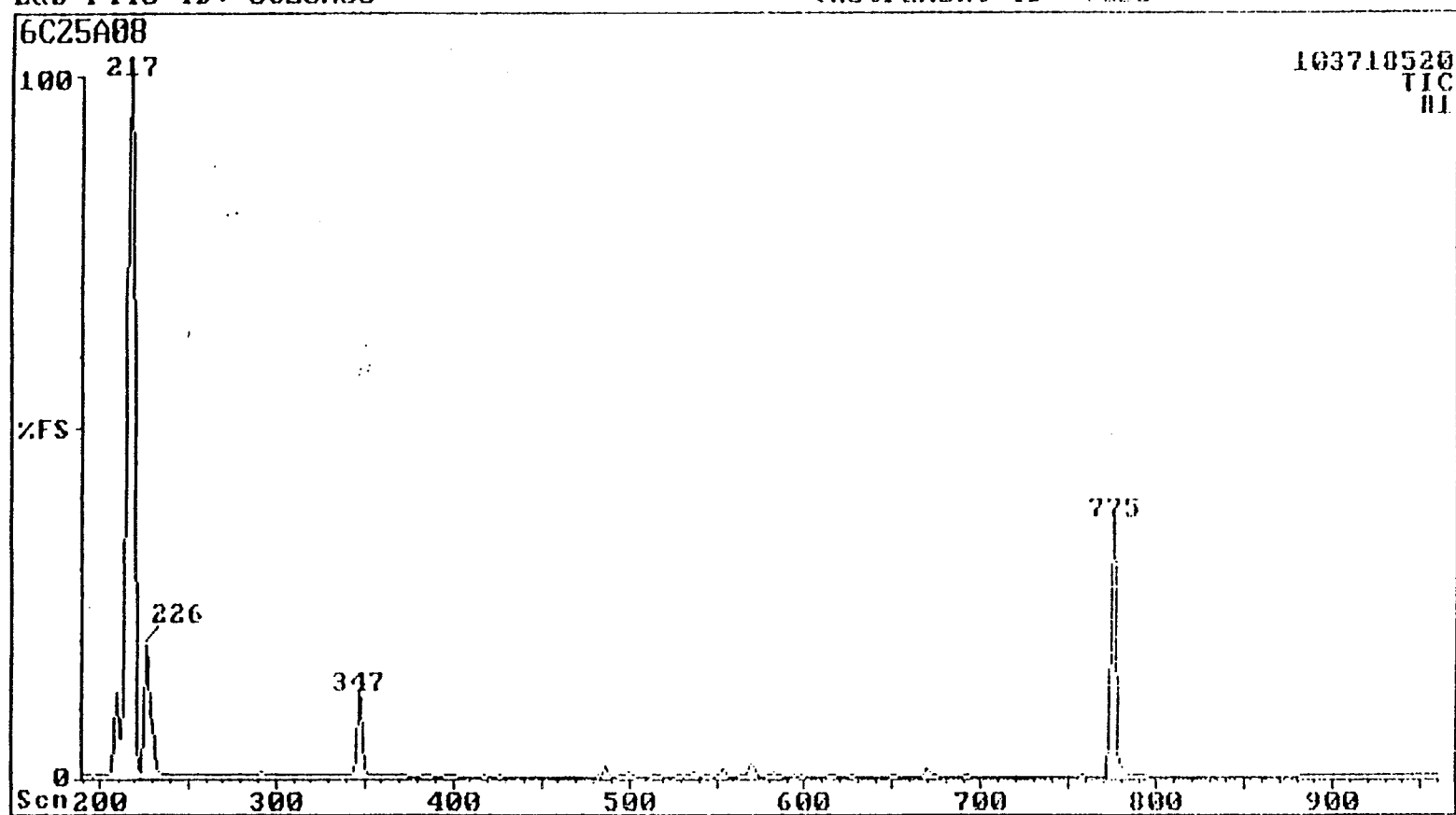
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Raw Datafile : 6025A08 Quan DB : 6025A08
 Find DB : NNDMA Scan DB : NONE

No.	MAT	Spectrum Scan FOR REV Diff	Peak Area Flgs	Scan Found	Pred	QM Compound Name
1	100	90 100	1	105040581 b?	775	774 190 2,2'-Difluorobiphenyl
2	100	95 100	0	20969823 b?	226	226 80 N-Nitrosodimethylamine-d6
3	100	91 99	-1	12998048 b?	229	230 74 N-Nitrosodimethylamine

Sample No.: 0.50 PPM STD
Lab File ID: 6C25A08

Analyzed: 03/25/99 1810
Instrument ID: 0606

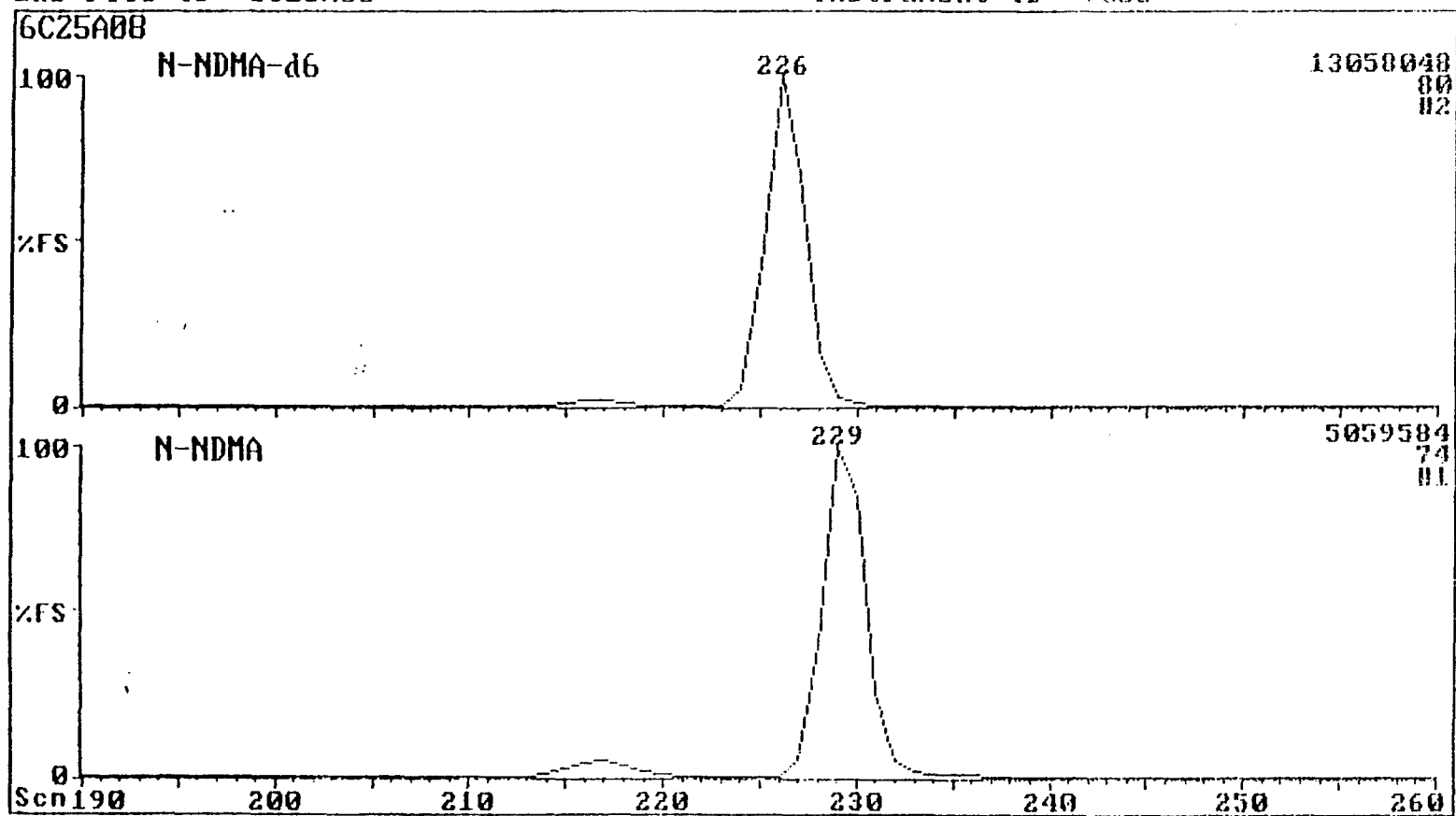


Sample No.: 0.50 PPM STD

Lab File ID: 6C25A08

Analyzed: 03/25/99 1010

Instrument ID: V096



Sample: 1.00 PPM STD
Lab File: 6C25A09

NSTD1.00

Analyzed: 03/25/99 1852
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0737

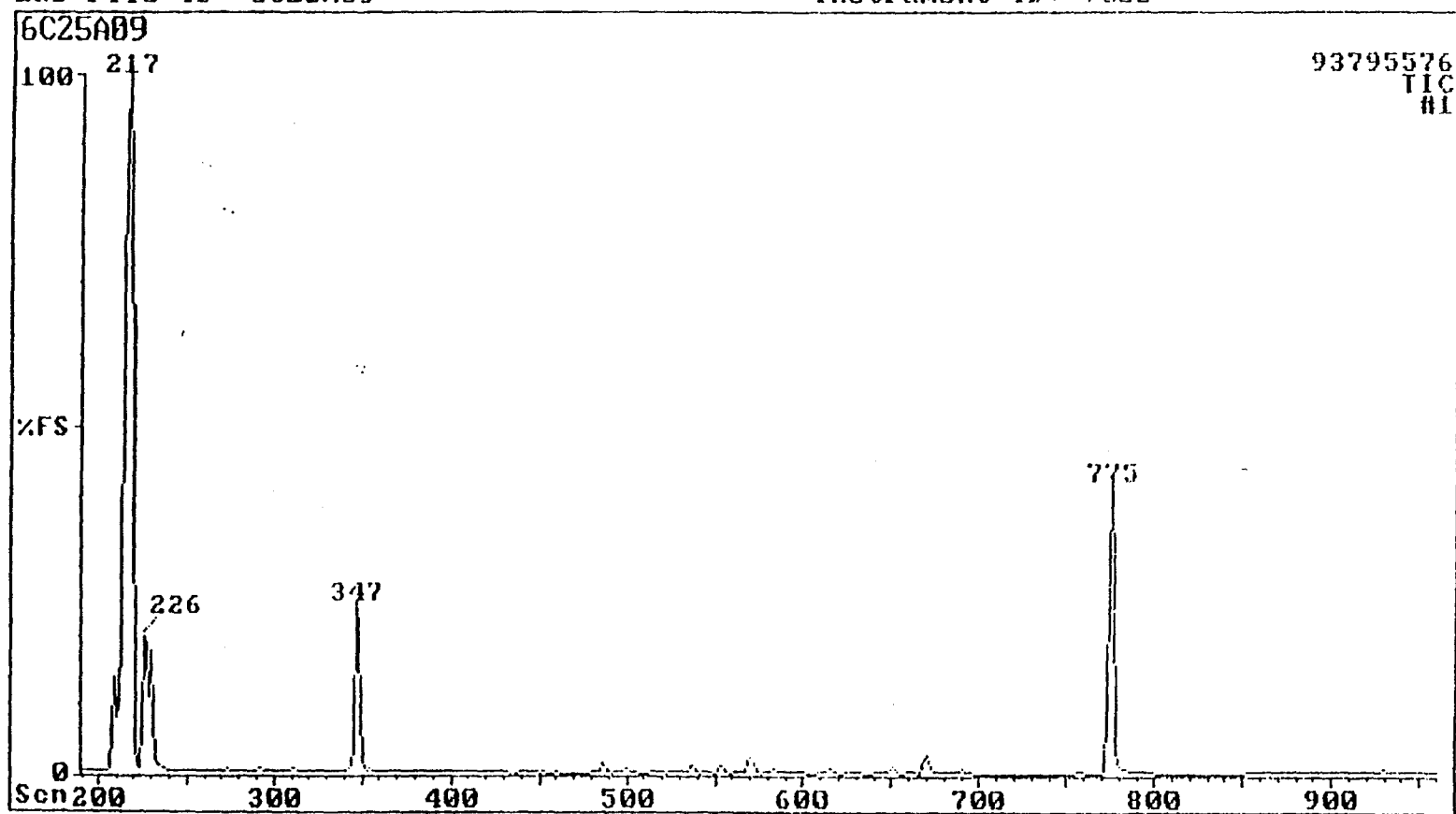
Raw Datafile : 6C25A09
Find DB : NNDMA.

Quan DB : 6C25A09
Scan DB : NONE

No.	Spectrum	Scan	Peak	Scan	GM Compound Name				
No.	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred	GM Compound Name
1	100	90	100	1	107364121	b?	773	774	190 2,2'-Difluorobiphenyl
2	100	95	100	0	30106551	b?	226	226	80 N-Nitrosodimethylamine-d6
3	100	95	99	-1	25386272	b?	229	230	74 N-Nitrosodimethylamine

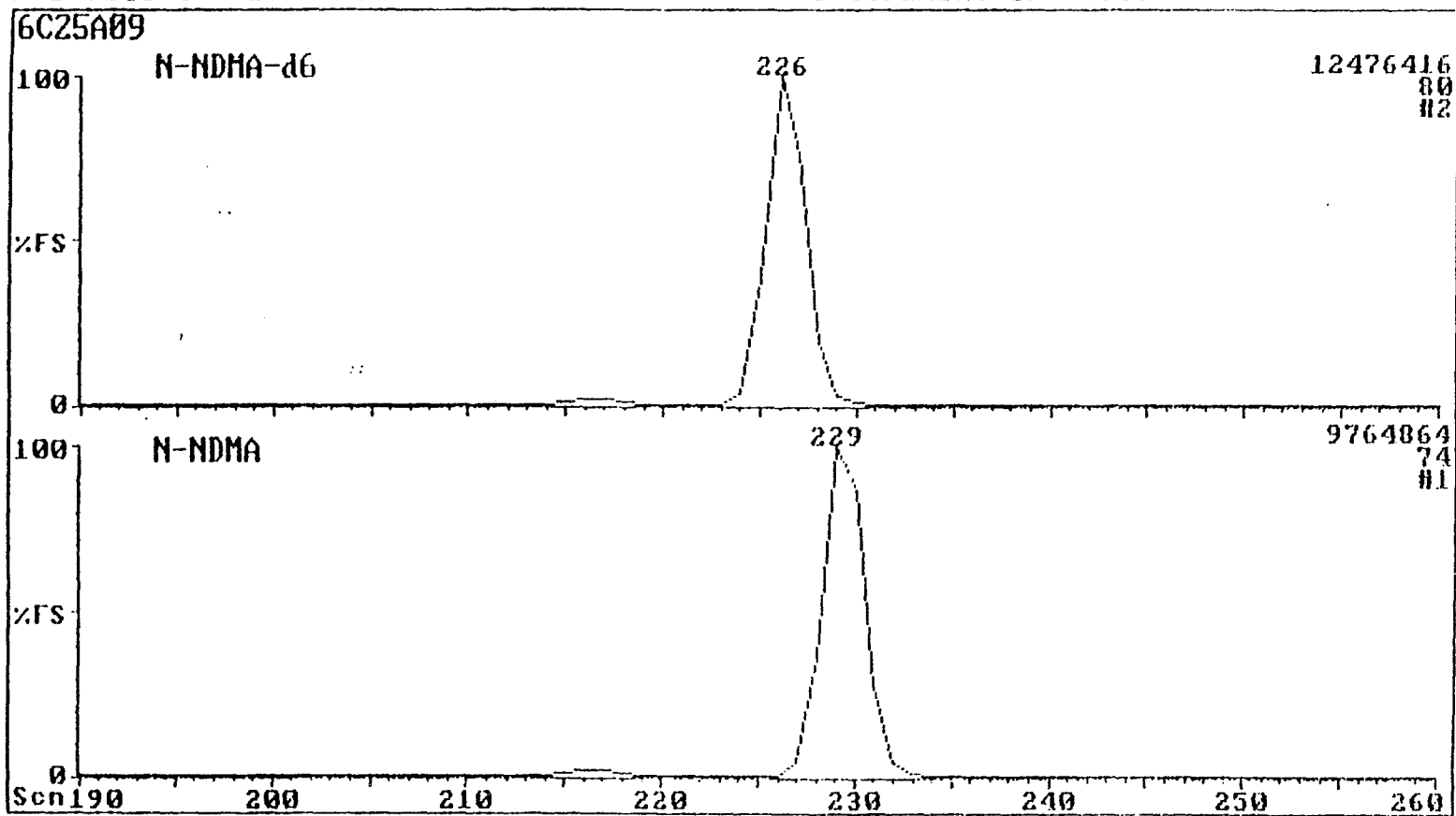
Sample No.: 1.00 PPM STD
Lab File ID: 6C25A09

Analyzed: 03/25/99 1852
Instrument ID: VG06



Sample No.: 1.00 PPM STD
Lab File ID: 6C25A09

Analyzed: 03/25/99 1852
Instrument ID: VG06



ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

P&R D15

Lab Name: PACIFIC ANALYTICAL, INC.	Lab Sample ID: P&R D15
Matrix: WATER	Lab File ID: 6C25A10
Sample wt/vol: 1000 ml	Date Sampled:
Concentrated Extract Volume: 1000 ul	Date Extracted: 03/24/99
Injection Volume: 1 ul	Date Analyzed: 03/25/99
GPC Cleanup: N/A	Time Analyzed: 1933
Fraction: Combined	

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.06		87 %

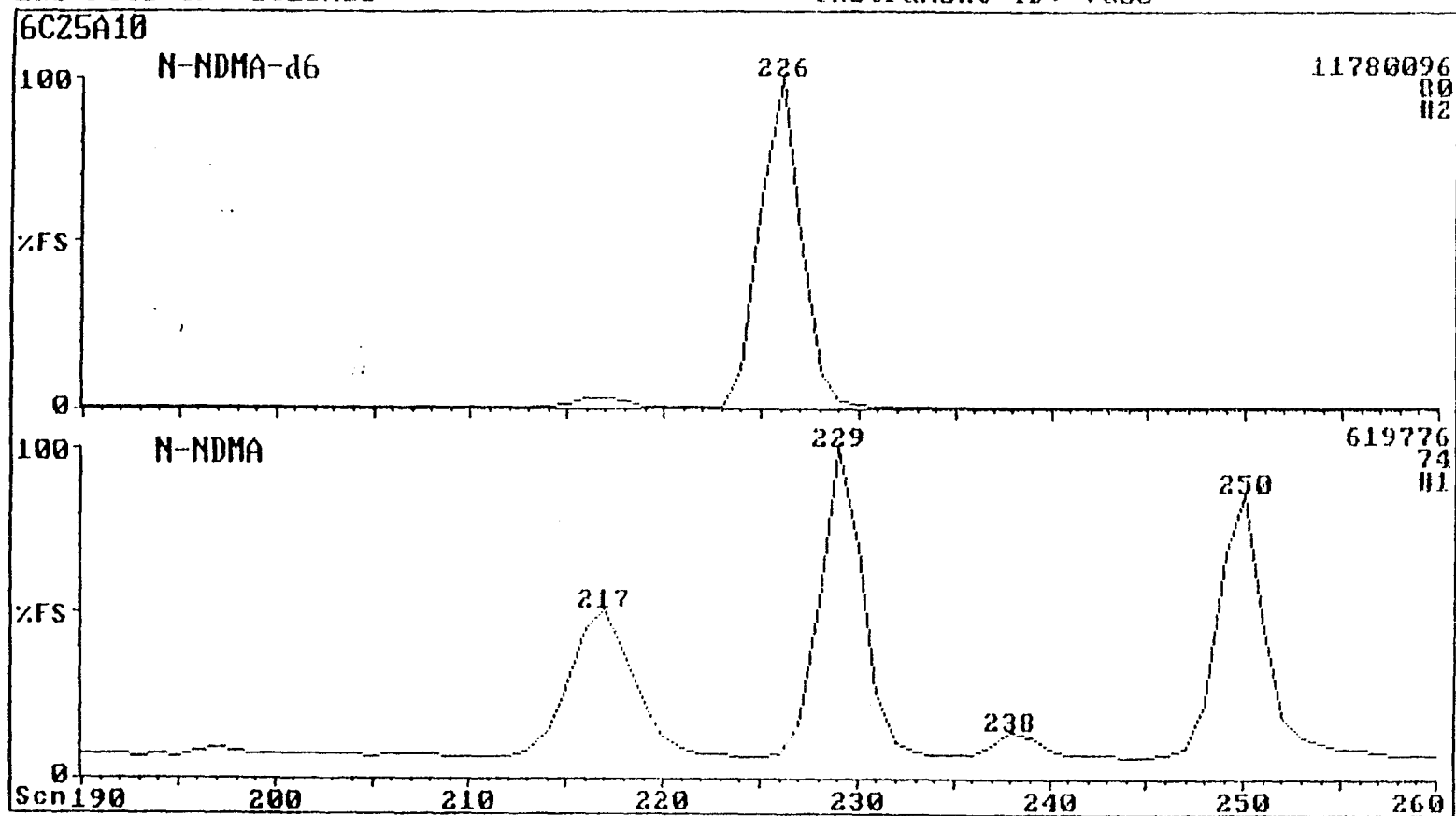
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

Sample No.: P&R D15
Lab File ID: 6C25A10

Analyzed: 03/25/99 1933
Instrument ID: VG06



Sample: P&R D15 P&R D15 Analyzed: 03/25/99 1931
 Lab File: 6025A10 Instrument ID: 06
 =====
 Interim Report LAB-BASE FIND 03/26/99 0808
 =====
 Raw Datafile : 6025A10 Quan DB : 6025A10
 Find DB : NNDMA Scan DB : NONE

No.	MAT	FOR	REV	Diff	Peak Area	Flags	Found	Scan Pred	QM	Compound Name
1	100	91	100	1	112646127	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	94	99	0	29230000	b?	226	226	80	N-Nitrosodimethylamine-d6
3	100	69	97	-1	1471104	b?	229	230	74	N-Nitrosodimethylamine

On-going Accuracy (P&R) Check

=====

EPA Name: P&R D15	Lab ID: P&R D15	Lab File: 6025A1
Instr: 06	ICAL: 6025	Acquisition Date: 03/25/99 Acquisition Time: 1933

=====

Compound	Target Conc.	Rec.	Label Rec.	Limits
N-Nitrosodimethylamine	0.06	61.77	86.6	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

B9052

Lab Name: PACIFIC ANALYTICAL, INC.	Lab Sample ID: 9052
Matrix: WATER	Lab File ID: 6C25A12
Sample wt/vol: 1000 ml	Date Sampled:
Concentrated Extract Volume: 1000 ul	Date Extracted: 03/24/99
Injection Volume: 1 ul	Date Analyzed: 03/25/99
GPC Cleanup: N/A	Time Analyzed: 2057
Fraction: Combined	

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	98 %

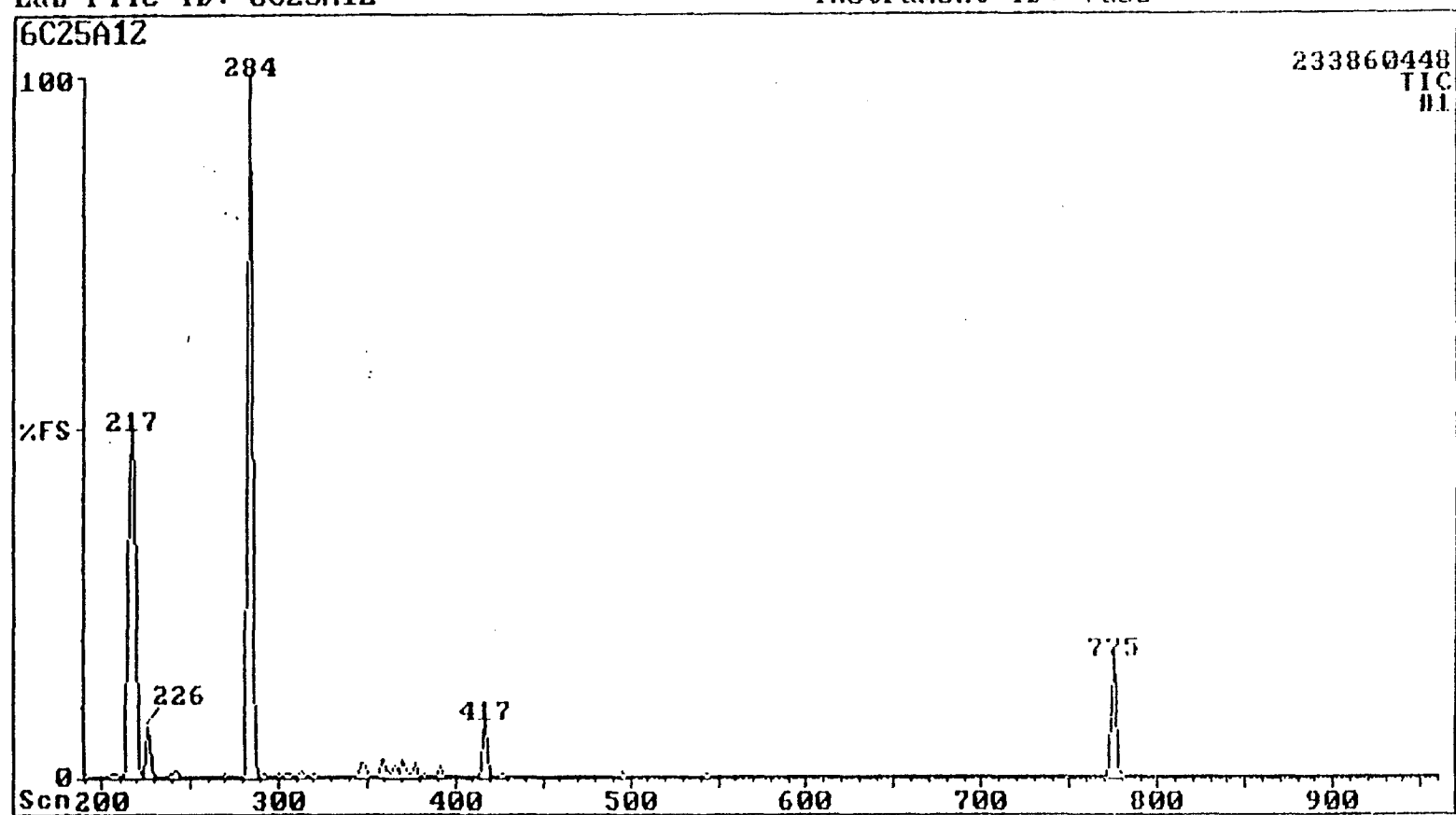
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

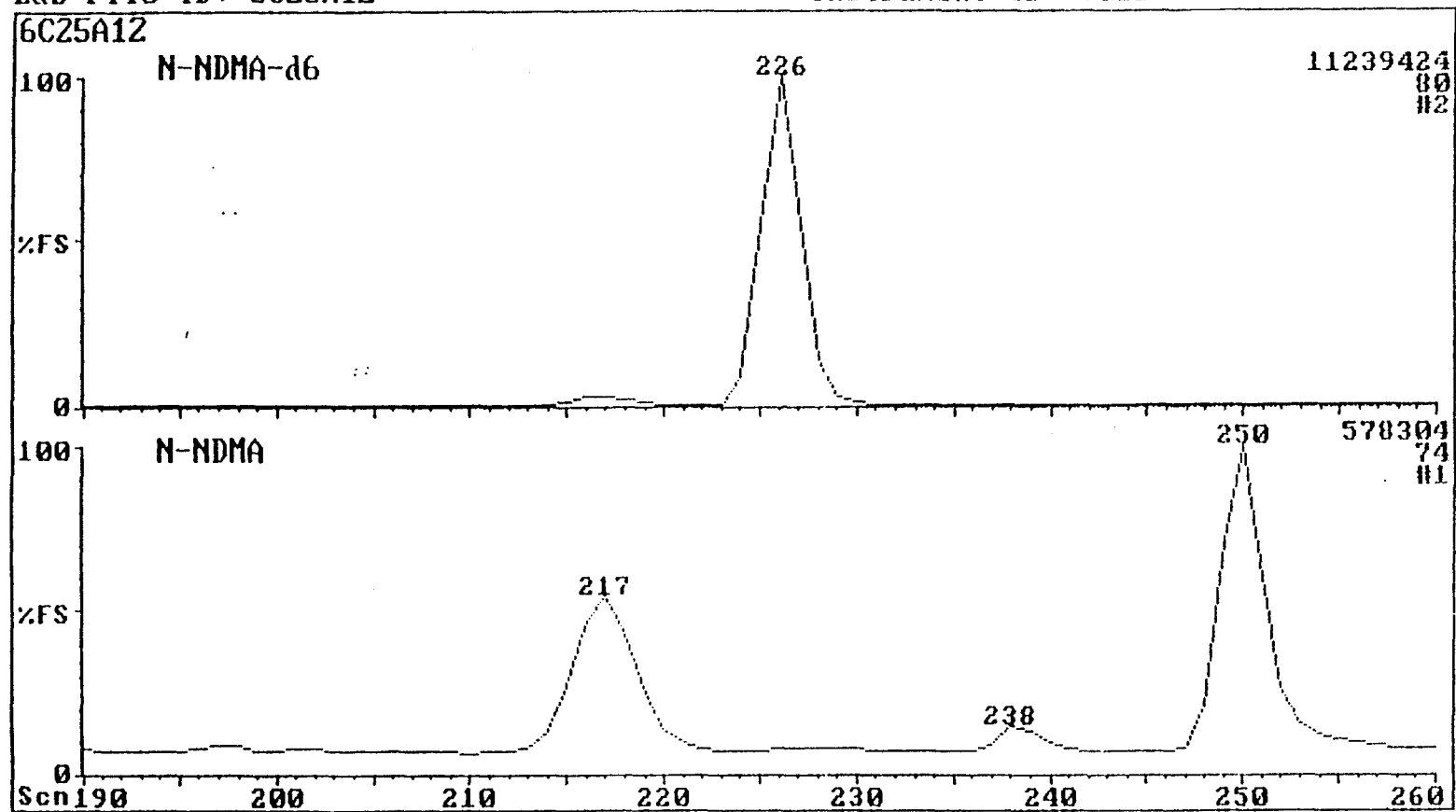
Sample No.: B9052
Lab File ID: 6C25A12

Analyzed: 03/25/99 2057
Instrument ID: VG06



Sample No.: B9052
Lab File ID: 6C25A12

Analyzed: 03/25/99 2057
Instrument ID: VG06



Sample: B9052
Lab File: 6C25A12

9052

Analyzed: 03/25/99 2057
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0810

Raw Datafile : 6C25A12
Find DB : NNDMA

Quan DB : 6C25A12
Scan DB : NONE

No.	MAT	FOR	REV	Diff	Spectrum Scan	Peak Area	Flgs	Found	Scan Pred	GM Compound Name
1	100	90	100	1	105356868	b?		775	774 190	2,2'-Difluorobiphenyl
2	100	95	99	0	26823649	b?		226	226 80	N-Nitrosodimethylamine-d6
3	70	32	80	-1	12704	!!		229	230 74	N-Nitrosodimethylamine
	47	20	98	2	107296	!!		238		

Quantitation Results

=====

EPA Name: B9052	Lab ID: 9052	Lab File: 6025A1
Instr: 06	IDAL: 6025	Acquisition Date: 03/25/99 Acquisition Time: 2057

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	88.0	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

Page 1 of 1

CLIENT SAMPLE NO.

B9053

Lab Name: PACIFIC ANALYTICAL, INC.

Matrix: WATER

Sample wt/vol: 1000 ml

Concentrated Extract Volume: 1000 ul

Injection Volume: 1 ul

GPC Cleanup: N/A

Fraction: Combined

Lab Sample ID: 9053

Lab File ID: 6C25A13

Date Sampled:

Date Extracted: 03/24/99

Date Analyzed: 03/25/99

Time Analyzed: 2138

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	91 %

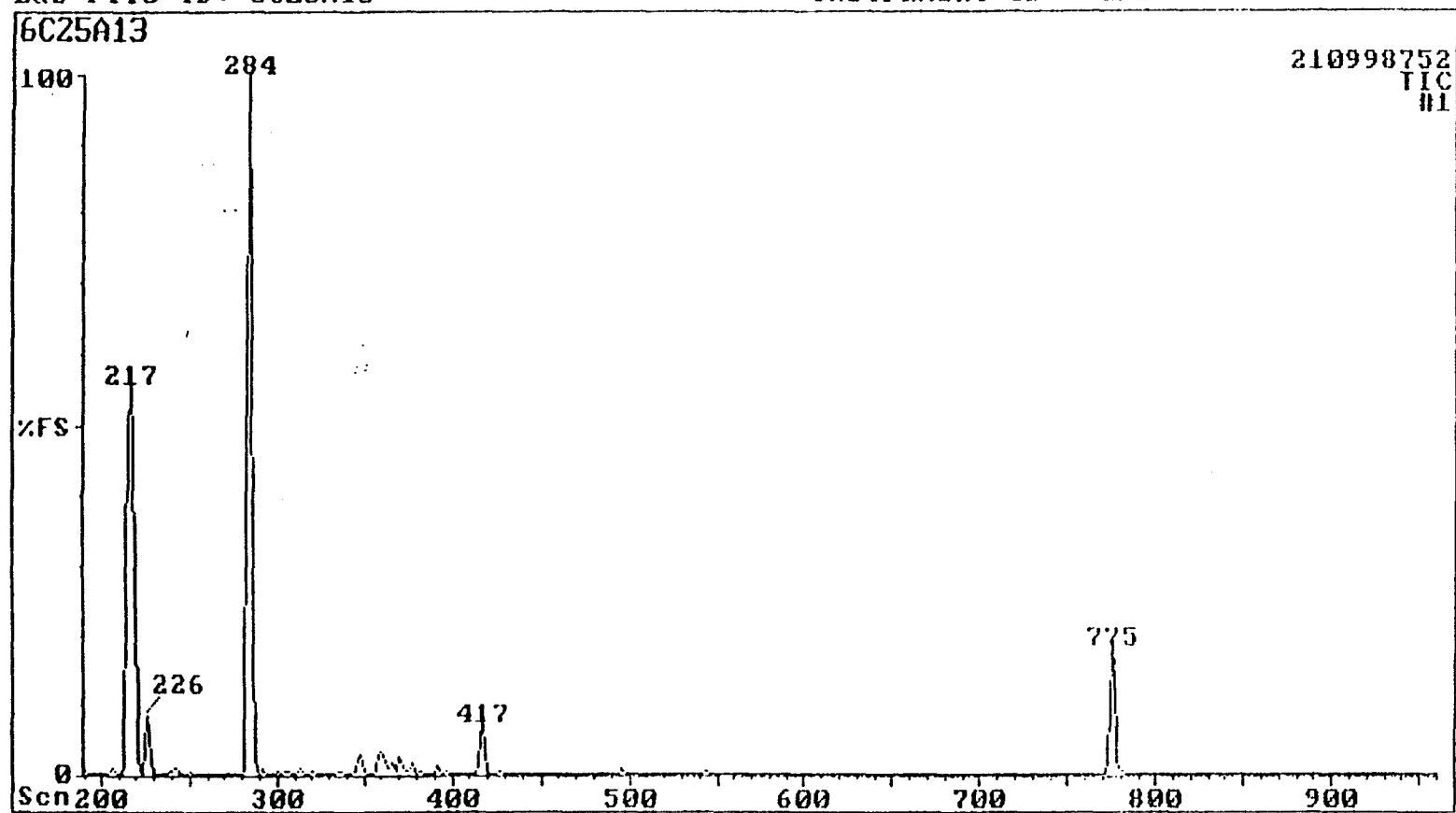
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

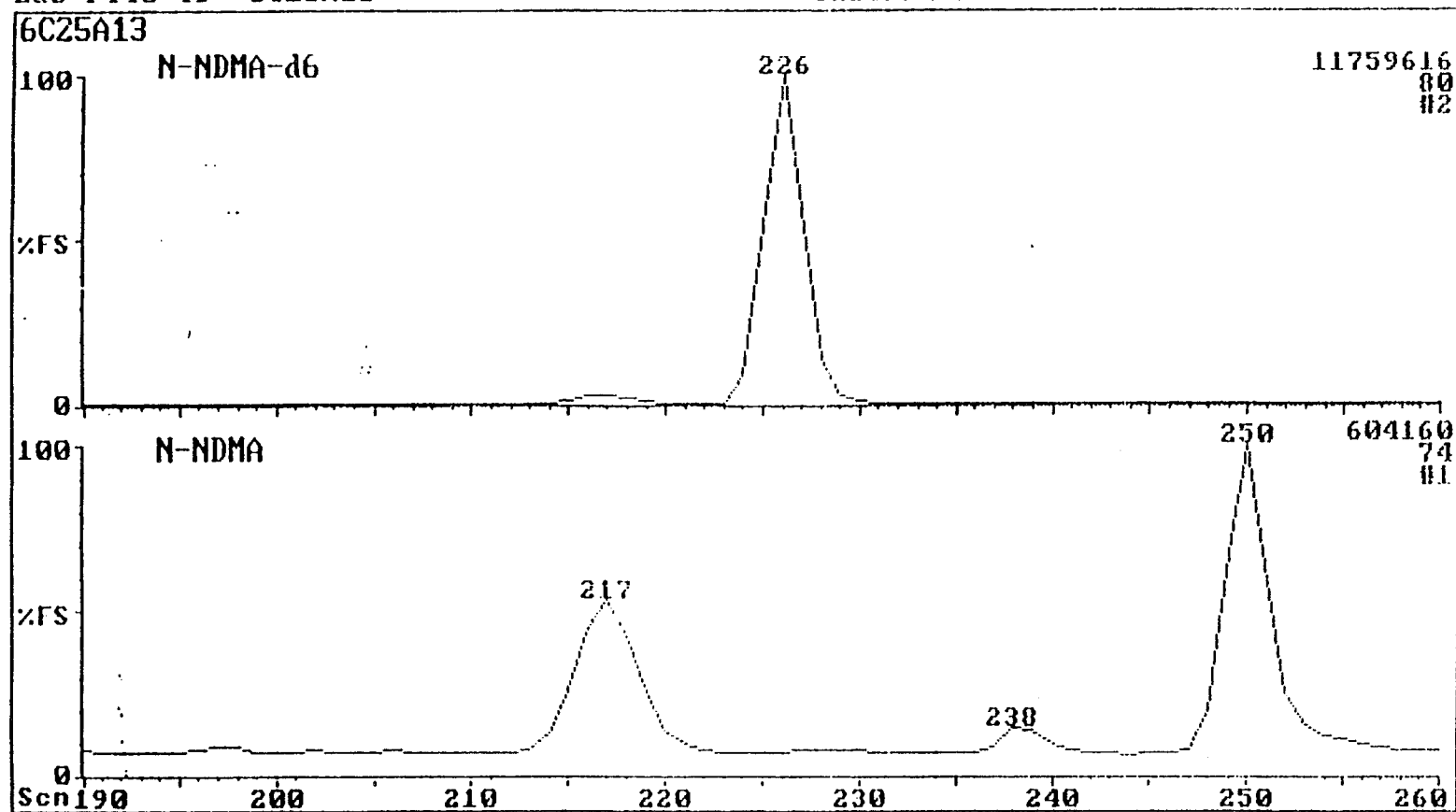
Sample No.: B9053
Lab File ID: 6C25A13

Analyzed: 03/25/99 2130
Instrument ID: VG06



Sample No.: B9053
Lab File ID: 6C25A13

Analyzed: 03/25/99 2138
Instrument ID: VG06



Sample: B9053 9053 Analyzed: 03/25/99 2135
 Lab File: 6C25A13 Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	0811
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=====

Raw Datafile : 6C25A13 Quan DB : 6C25A13
 Find BB : NNDMA Scan DB : NONE

No.	Spectrum Scan				Peak	Scan		QM Compound Name	
	MAT	FOR	REV	Diff	Area Flgs	Found	Pred		
1	100	90	100	1	106390168	b?	775	774	190 2,2'-Difluorobiphenyl
2	100	95	99	0	27980391	b?	226	226	80 N-Nitrosodimethylamine-d6
3	69	36	79	0	17237	!!	230	230	74 N-Nitrosodimethylamine
	47	20	29	8	129840	b?	238		

Quantitation Results

=====

EPA Name: B9053	Lab ID: 9053	Lab File: 6025A1
Instr: 06	ICAL: 6025	Acquisition Date: 03/25/99 Acquisition Time: 2138

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	90.9	25 - 175

Pacific Analytical
GC/MS SEMI-VOLATILES
RUN LOG

Instrument: V606

Page: 362

Cal File: 6C25

Date: 3/25/99

Notes: P 74, P83, P80, P81 NNDMA
Tune Pur: SIR=5.0, SEC=100, SF1=14, SF3=210, QL=6.0, QR=10.9, DM=700
SEE=70, SF2=21.0, SF4=21, QTE=1.5, QTR=1.0

GC Par: 40°C 2.5 min, 15°C/min to 280 Hold 15 min

Taped	Sample ID	File Name	OK	Description	OP
		6C25A01		warm-up	CB
		02			
		03			
		04			
	NSSTD0.02	05		0.02 ug/ml <u>NNDMA + Dioxan + ICA1</u>	
	NSSTD0.05	06		0.05	
	NSSTD0.10	07		0.10	
	NSSTD0.50	08		0.50	
	NSSTD1.00	09		1.00	
	P&R D15	10			
	P&R D15dup	11			
	9052	12			
	9053	13			
	P8201	14			
	P7401	15			
	P7402	16			
	P8001	17			
	P8002	18			
	P8003	19			
	P8004	20			
	P8101	21			
	P8102	22			
	NSSTD0.10	23		0.10 ug/ml <u>NNDMA Daily</u>	
	P8103	24			
	P8104	25			

06/21/93

Reviewed by: _____ on: _____

.....

Page: 363

Date: 3/25/99

Notes: Same as Page 362

[illegible]

PACIFIC ANALYTICAL, INC.

*** SAMPLE RECEIPT LOG ***

PA JOB NUMBER: PSO
(Sample Tracking Information)

JOB _____ TASK _____
(Invoice Informatio

CUSTOMER: MONTGOMERY WATSON

RECEIVED BY: JTJ⁷

REVISION DATE: 03/24/99

REVISION TIME: 09:50

CHAIN OF CUSTODY RECEIVED: Y

SHIPPER: FEDEX
SHIPPER CODE: 4147-8266-468

LAB SAMPLE NUMBER OF FIRST SAMPLE TO BE LOGGED IN: P80

L&E SAMPLE NUMBER	CUSTOMER SAMPLE ID	DATE OF RECEIPT	DESCRIPTION (soil, water, tissue, etc.)	CONDITION
P8001	MW-991036	03/19/99	03/22/99 WATER, 1X1 L BOTTLE, N-NOMA 02636	OK
P8001	MW-991038	03/19/99	03/22/99 WATER, 1X1 L BOTTLE	OK
P7802	MW-991-041	03/19/99	03/22/99 WATER, 1X1 BOTTLE	OK
P8003	MW-991049	03/19/99	03/22/99 WATER, 1X1 L BOTTLE 0236	OK
P8004	MW-991065	03/19/99	03/22/99 WATER, 1X1 L BOTTLE 0236	OK
	/ /	/ /		
	/ /	/ /		
	/ /	/ /		
	/ /	/ /		
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	/ /	/ /		

P8002
OS
3/24/99

CB
3/24/99

COMMENTS: 1 MED. COOLER



Montgomery Watson Laboratories

555 East Walnut Street
Pasadena, CA 91101
Ph (626) 568-6400 Fax (626) 568-6324

Date 03/22/99

Submittal Form

DEB

52813

Ship To **Steve Parsons**
Pacific Analytical, Inc
6349 Paseo del Lago
Carlsbad, CA 92009

(760) 438-3100

Reporting: One report for this MWL Project Number 52813

Do Not Combine Report with any other samples submitted under different MWL project numbers!

Report & Invoice must have the MWL Project Number and Sub PO#: 99-0353

Report all quality control data according to Method. Include dates analyzed, date extracted (if extracted) and Method reference on the report. Fax results to 626-568-6324. Faxed results must have complete data & QC. Hardcopy report is due in hand on due date. Please advise us immediately if Due Date will be missed.

If you have questions about these samples,
please call the MWL project manager

Debbie Frank

(626) 568-6449

MWL
Project # 52813

Report
Due: 4/1/99

For Prompt Payment, please mail Hardcopy Report & Invoice to attention of
Martha Frost Montgomery Watson Laboratories 555 East Walnut St Pasadena CA 91101
even if your arrangements were made with the MWL project manager.

Qty	Test Code	Use MWL Lab # for ID	Client Sample ID for reference only	Analysis Requested	Sample Date	Matrix	Container
1	CUSTOMMS DMA	990319306	MW-991-049	N-Nitrosodimethylamine (N-NDMA)	03/19/99	aq	2 1L amber glass / no preservative
1	CUSTOMMS DMA	990319307	MW-991-065	N-Nitrosodimethylamine (N-NDMA)	03/19/99	aq	2 1L amber glass / no preservative
1	CUSTOMMS DMA	990319308	MW-991-041	N-Nitrosodimethylamine (N-NDMA)	03/19/99	aq	2 1L amber glass / no preservative

5
3

Relinquished by

Sample Control 03/22/99

P74 | P80 | P81 | P82

3/24/99

1625M (NNDMA)

$$\underline{\text{MeCl}_7}$$

87025

Mr.

Matrix:

water

Fractions Extracted:

Other Reagents:

Lot #.

Surrogate Spike:

Matrix Spike:

Internal Standard:

BN fraction:

Acid Fraction.

Label:	Date Made:	Concentration:	Volume added:	Date Spiked:	Initials:	Comments:
NUSHA label	8/13/98	20 ug/mL	50 μ L	3/24/99	MD	
NUSHA wkq 51	2/13/98	1.0 ug/mL	100 μ L	3/24/99	MD	
NUSHA IS	10/12/98	100 μ g/mL	10 μ L	3/25/99	clm	

[illegible]

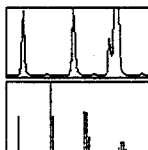
QA Review:

APR 1 - RECD

ENSCRCH 52813

Semi-Volatiles DATA SUMMARY PACKAGE

CLIENT: MONTGOMERY WATSON
JOB #: P80 - MWL Project # 52813
DATE: MARCH 26, 1999



Pacific Analytical, Inc.
6349 Paseo Del Lago □ Carlsbad, CA 92009
(760) 438-3100

NARRATIVE REPORT
Method 1625C Semivolatiles

PA Reference: P80

03/26/99

Samples: MW-991-041, MW-991-049, MW-991-065

Semivolatiles analysis:

The samples were extracted and analyzed by Method 1625C, modified for the lowest possible detection limits. A 1000 mL aliquot was spiked with 1.0 ug of deuterated N-Nitrosodimethylamine-d6 and extracted with liquid-liquid extractors for 24 hours. The sample extract was concentrated to a final volume of 1.0 mL and then spiked with 1.0 ug of 2,2'-Difluorobiphenyl as an internal recovery standard. The extract was analyzed by GC/MS with the mass spectrometer operating in the "Specific Ion Mode" for greater sensitivity and lower detection limits. The instrument was calibrated with five initial calibration standards ranging from 0.02 ug/mL to 1.00 ug/mL. A recent minimum detection limit study suggests that the instrument is capable of detecting N-Nitrosodimethylamine (NNDMA) at 0.005 ug/mL. However for reporting purposes, our detection limit is 0.03 ug/mL which translates to a sample concentration of 0.03 ug/L.

On-Going Precision and Recovery

A laboratory blank (P&R) was spiked with 0.10 ug of NNDMA and its labeled analog, and extracted and analyzed like a sample for each analytical batch. Recoveries for NNDMA and its label were within method specified recovery limits.

Blank

A laboratory blank was extracted and analyzed like the sample with each extraction batch. NNDMA was not detected at or above our report limit of 0.03 ug/L.

Samples

The samples MW-991-038, MW-991-041, MW-991-049 and MW-991-065 are clean with no NNDMA detected.

The data package consists of a summary page followed by a chromatogram and a close up of the extracted ion current profile of NNDMA and its label. This is followed by the raw data printout with areas and scan numbers, and finally a "Quantitation Results" page which lists extract concentrations in ug/mL.

Please contact Chris Burbach or Steve Parsons at (760) 438-3100 if there are any questions concerning this data package.



Chris Burbach
GC/MS Chemist

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

MW-991-041

Lab Name: PACIFIC ANALYTICAL, INC.	Lab Sample ID: P8002
Matrix: WATER	Lab File ID: 6C25A18
Sample wt/vol: 1000 ml	Date Sampled: 03/19/99
Concentrated Extract Volume: 1000 ul	Date Extracted: 03/24/99
Injection Volume: 1 ul	Date Analyzed: 03/26/99
GPC Cleanup: N/A	Time Analyzed: 0107
Fraction: Combined	

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U.	92 %

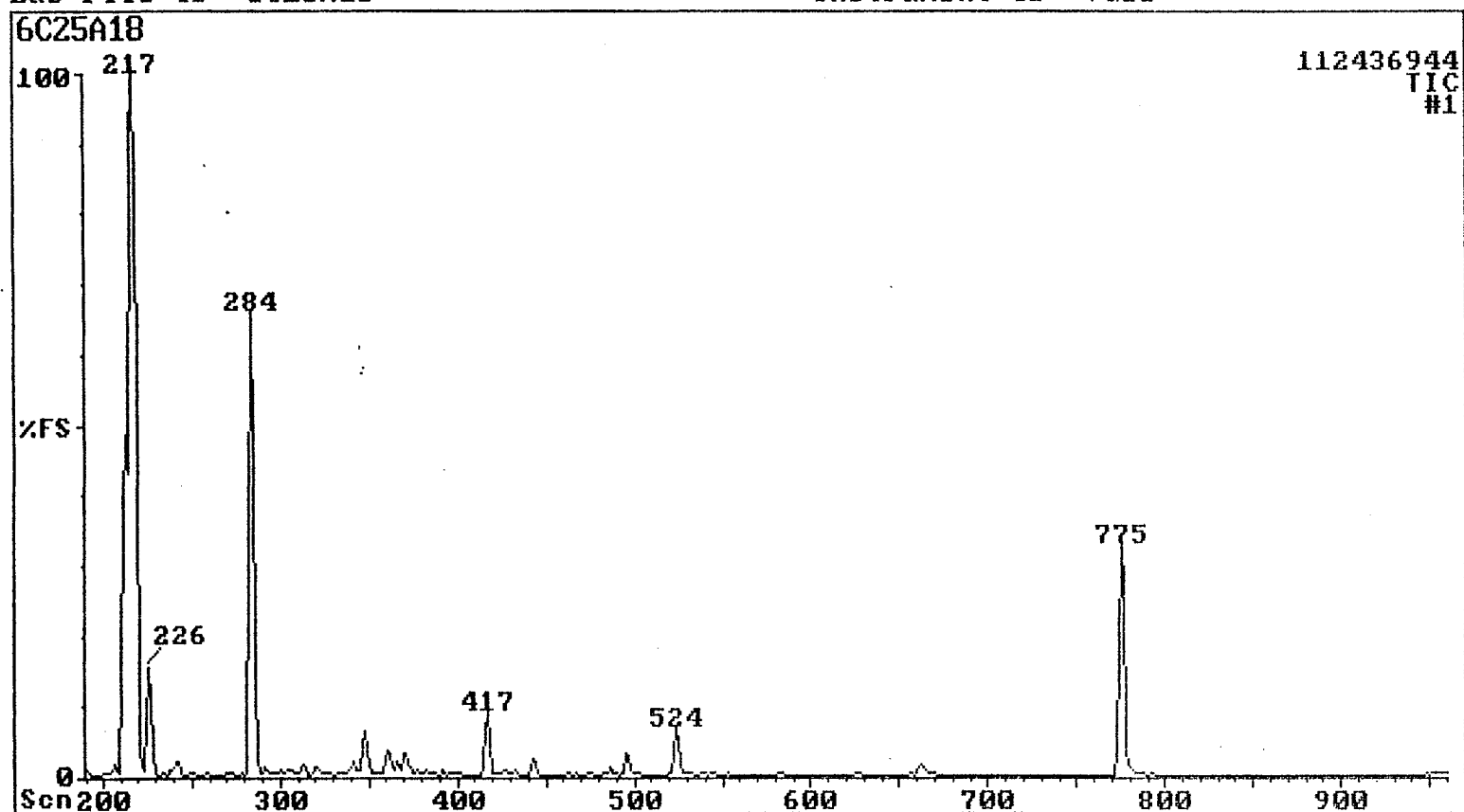
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

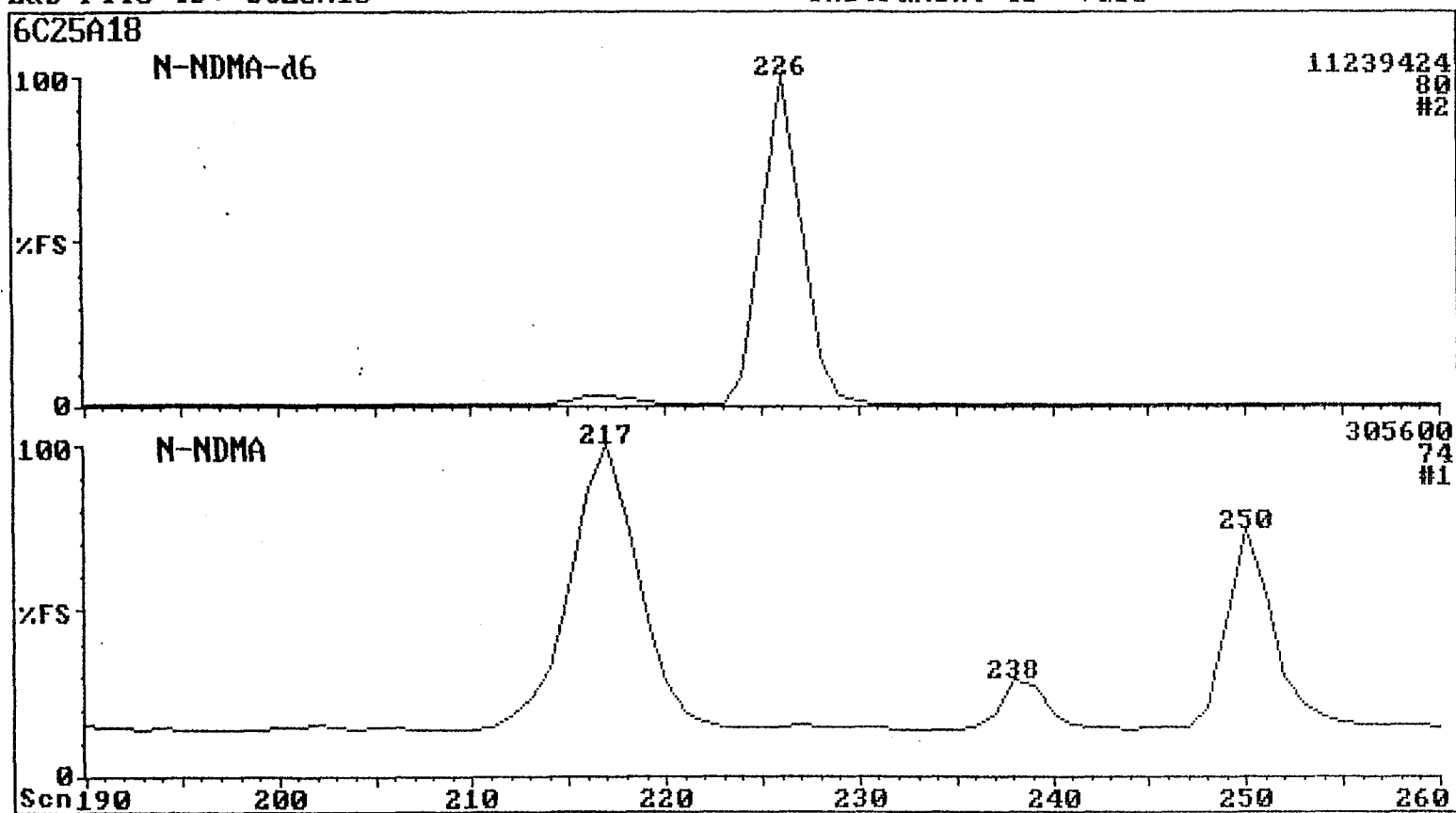
Sample No.: MW-991-041
Lab File ID: 6C25A18

Analyzed: 03/26/99 0107
Instrument ID: VG06



Sample No.: MW-991-041
Lab File ID: 6C25A18

Analyzed: 03/26/99 0107
Instrument ID: VG06



Sample: MW-991-041 P8002 Analyzed: 03/26/99 0107
 Lab File: 6C25A18 Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	0816
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Raw Datafile : 6C25A18 Quan DB : 6C25A18
 Find DB : NNDMA Scan DB : NONE

No.	Spectrum Scan				Peak	Scan				QM Compound Name
	MAT	FDR	REV	Diff	Area Flgs	Found	Pred			
1	100	90	100	1	101024985	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	95	99	0	26769825	b?	226	226	80	N-Nitrosodimethylamine-d6
3	66	37	78	3	656	!!	233	230	74	N-Nitrosodimethylamine
	47	20	90	8	130783	v?	238			

Quantitation Results

=====

EPA Name: MW-991-041	Lab ID: P8002	Lab File: 6C25A18
Instr: 06	ICAL: 6C25	Acquisition Date: 03/26/99 Acquisition Time: 0107

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	91.6	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

MW-991-049

Lab Name: PACIFIC ANALYTICAL, INC.

Matrix: WATER

Sample wt/vol: 1000 ml

Concentrated Extract Volume: 1000 ul

Injection Volume: 1 ul

GPC Cleanup: N/A

Fraction: Combined

Lab Sample ID: P8003

Lab File ID: 6C25A19

Date Sampled: 03/19/99

Date Extracted: 03/24/99

Date Analyzed: 03/26/99

Time Analyzed: 0149

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	89 %

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

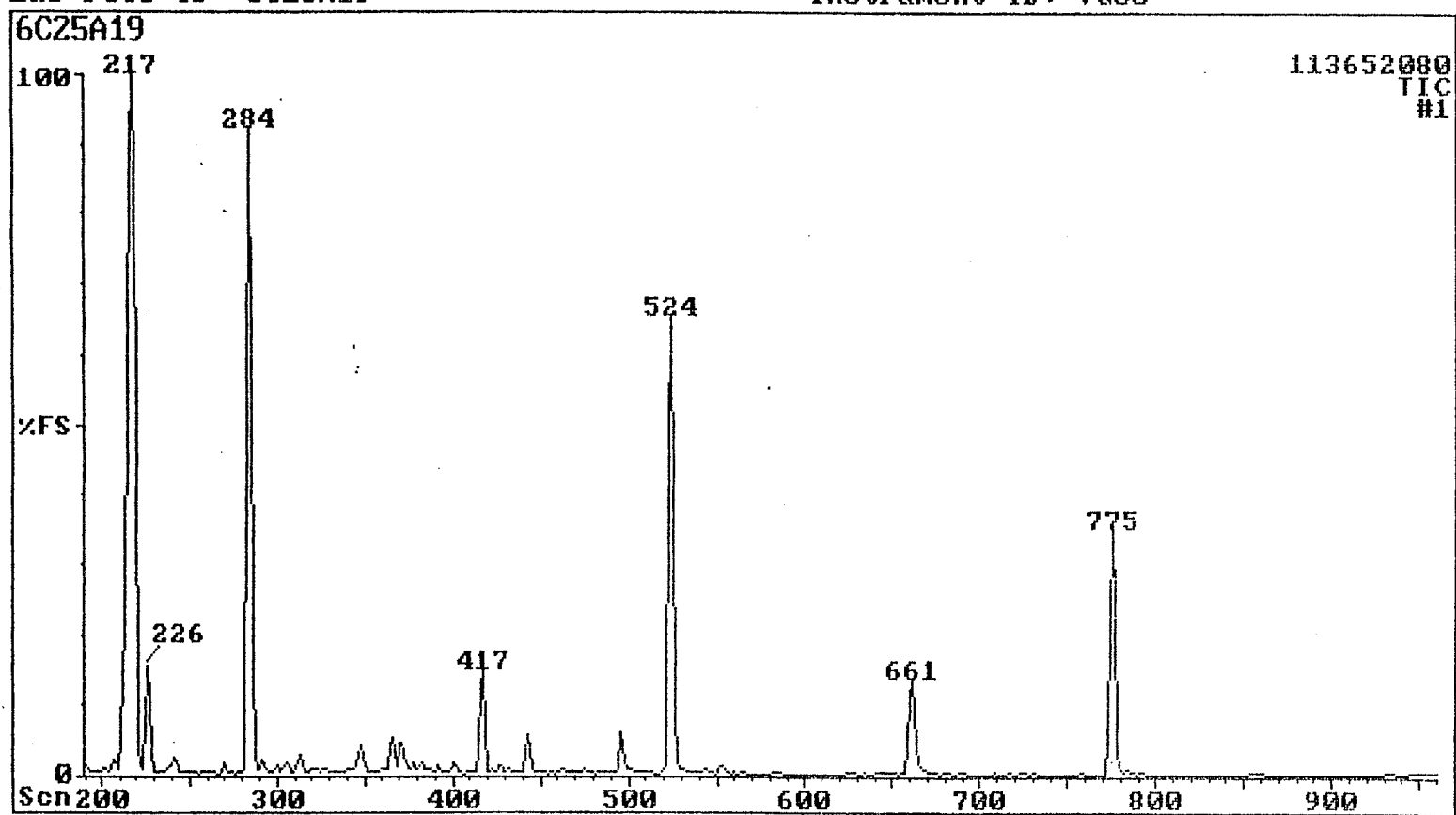
PQL = 0.03 ug/L

Sample No.: MW-991-049

Lab File ID: 6C25A19

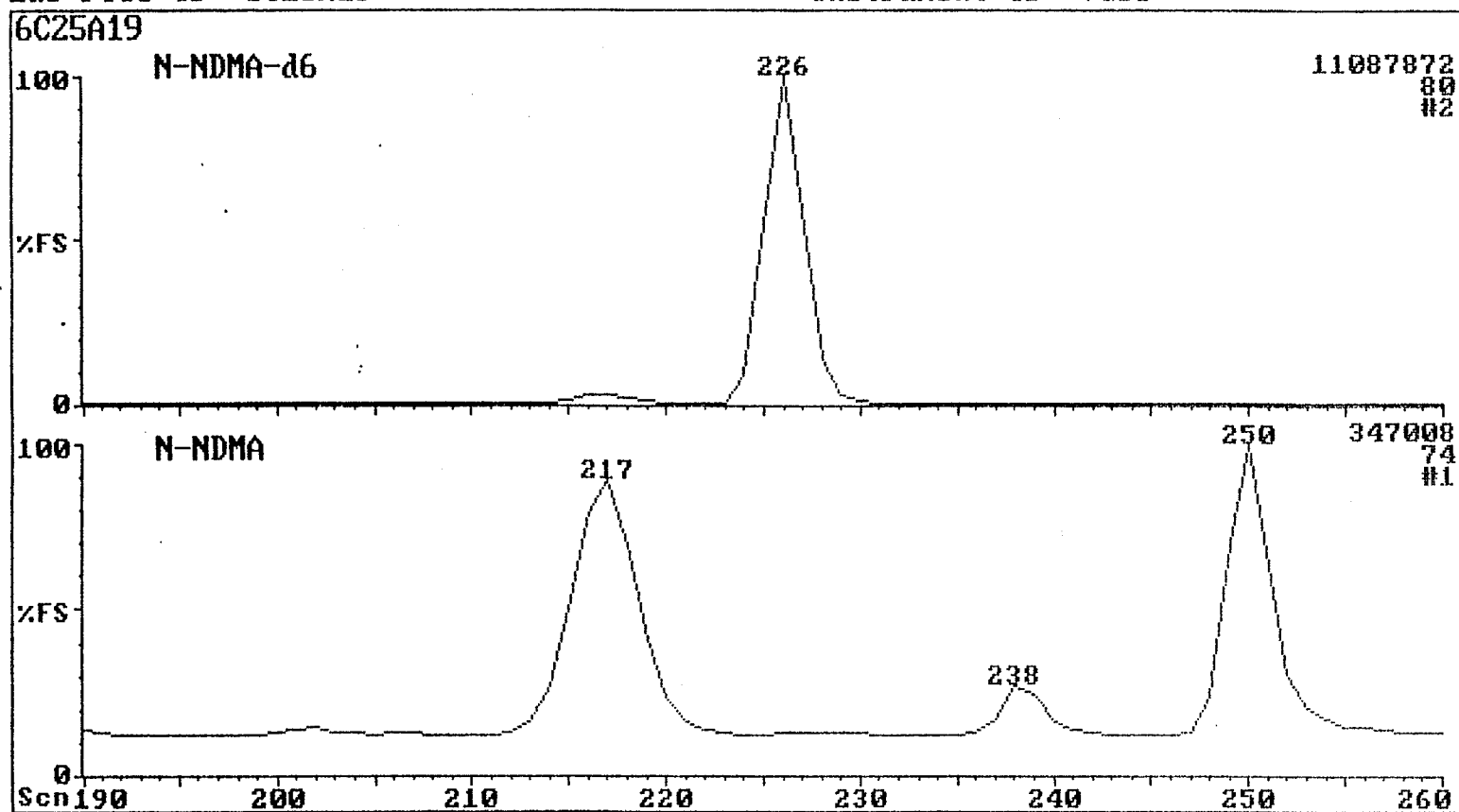
Analyzed: 03/26/99 0149

Instrument ID: VG06



Sample No.: MW-991-049
Lab File ID: 6C25A19

Analyzed: 03/26/99 0149
Instrument ID: VG06



Sample: MW-991-049 P8003 Analyzed: 03/26/99 0149
 Lab File: 6C25A19 Instrument ID: 06

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Interim Report	LAB-BASE FIND	03/26/99	0817
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=====

Raw Datafile : 6C25A19 Quan DB : 6C25A19
 Find DB : NNDMA Scan DB : NONE

No.	Spectrum Scan				Peak Area Flgs	Scan Found	Pred	QM	Compound Name
	MAT	FOR	REV	Diff					
1	100	90	100	1	102096472 b?	775	774	190	2,2'-Difluorobiphenyl
2	100	94	99	0	26391480 b?	226	226	80	N-Nitrosodimethylamine-d6
3	67	37	74	2	1936 !!	232	230	74	N-Nitrosodimethylamine
	45	20	85	8	140192 b?	238			

Quantitation Results

=====

EPA Name: MW-991-049	Lab ID: P8003	Lab File: 6C25A19
Instr: 06	ICAL: 6C25	Acquisition Date: 03/26/99 Acquisition Time: 0149

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	89.3	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

MW-991-065

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: PB004
Lab File ID: 6C25A20
Date Sampled: 03/19/99
Date Extracted: 03/24/99
Date Analyzed: 03/26/99
Time Analyzed: 0230

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	91 %

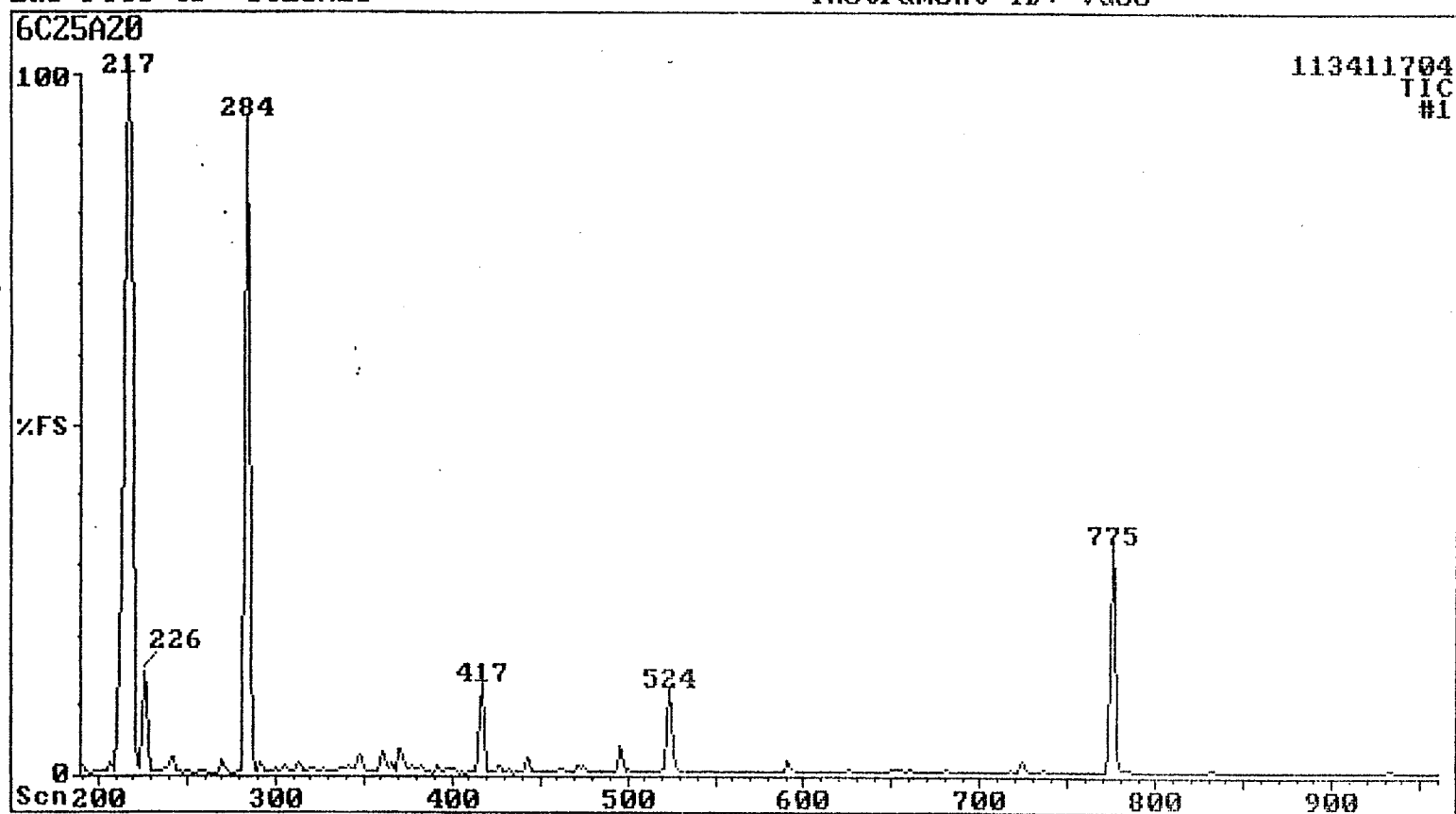
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

Sample No.: MW-991-065
Lab File ID: 6C25A20

Analyzed: 03/26/99 0230
Instrument ID: VG06

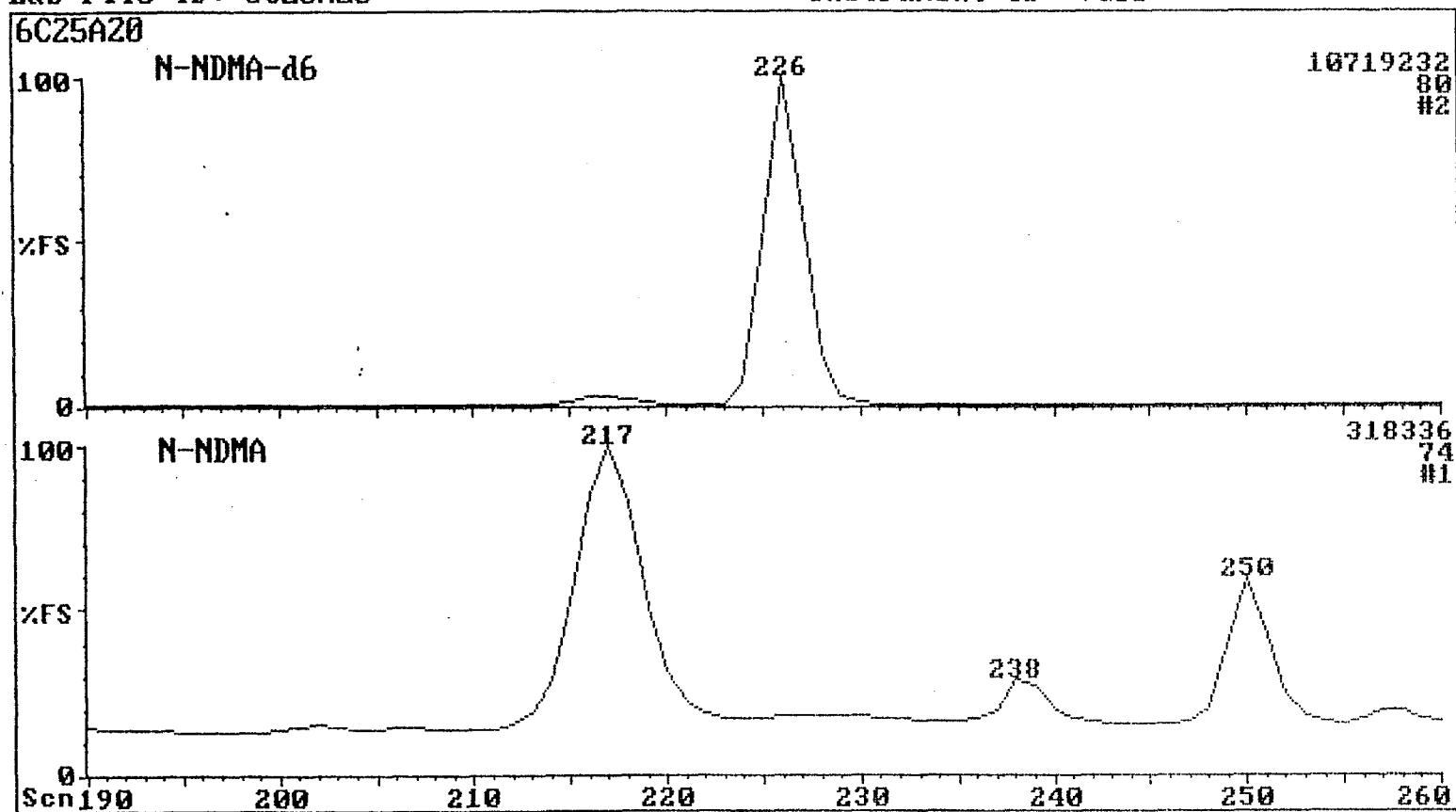


Sample No.: MW-991-065

Lab File ID: 6C25A20

Analyzed: 03/26/99 0230

Instrument ID: VG06



Sample: MW-991-065 P8004 Analyzed: 03/26/99 0230
 Lab File: 6C25A20 Instrument ID: 06

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Interim Report	LAB-BASE FIND	03/26/99	0818
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Raw Datafile : 6C25A20 Quan DB : 6C25A20
 Find DB : NNDMA Scan DB : NONE

No.	MAT	FOR	REV	Diff	Spectrum Scan	Peak	Scan	Area	Flgs	Found	Pred	QM	Compound Name
1	100	90	100	1	96656996	b?	775	774	190	2,2'-Difluorobiphenyl			
2	100	94	99	0	25433920	b?	226	226	80	N-Nitrosodimethylamine-d6			
3	70	38	79	0	12373	!!	230	230	74	N-Nitrosodimethylamine			
	48	24	87	8	109520	!!	238						

Quantitation Results

=====

EPA Name: MW-991-065	Lab ID: P8004	Lab File: 6C25A20
Instr: 06	ICAL: 6C25	Acquisition Date: 03/26/99 Acquisition Time: 0230

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	91.0	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
LABELED COMPOUNDS

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG06

Calibration Date: 03/25/99

LAB FILE IDs:

RF 0.02 = 6025A05
RF 0.05 = 6025A06
RF 0.10 = 6025A07
RF 0.50 = 6025A08
RF 1.00 = 6025A09

COMPOUND	RF 0.02	RF 0.05	RF 0.10	RF 0.50	RF 1.00	RF MEAN	% RSD
2 N-Nitrosodimethylamine-	0.287	0.295	0.289	0.295	0.280	0.289	2.1

Internal Standard = 1 ug/mL

Pollutant Compounds = 0.02, 0.05, 0.10, 0.50, 1.00 ug/mL

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
COMPOUNDS HAVING A LABELED REFERENCE

Lab Name: PACIFIC ANALYTICAL

Instr. ID: VG06

Calibration Date: 03/25/99

LAB FILE IDs:

RF 0.02 = 6025A05
RF 0.05 = 6025A06
RF 0.10 = 6025A07
RF 0.50 = 6025A08
RF 1.00 = 6025A09

COMPOUND	RR 0.02	RR 0.05	RR 0.10	RR 0.50	RR 1.00	SLOPE	INTCP
3 N-Nitrosodimethylamine	0.016	0.043	0.083	0.420	0.843	1.186	0.001

Internal Standard = 1 ug/mL

Pollutant Compounds = 0.02, 0.05, 0.10, 0.50, 1.00 ug/mL

Sample: 0.02 PPM STD NSTDO.02 Analyzed: 03/25/99 1605
 Lab File: 6025A05 Instrument ID: 06

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Interim Report	LAB-BASE FIND	03/26/99	0734
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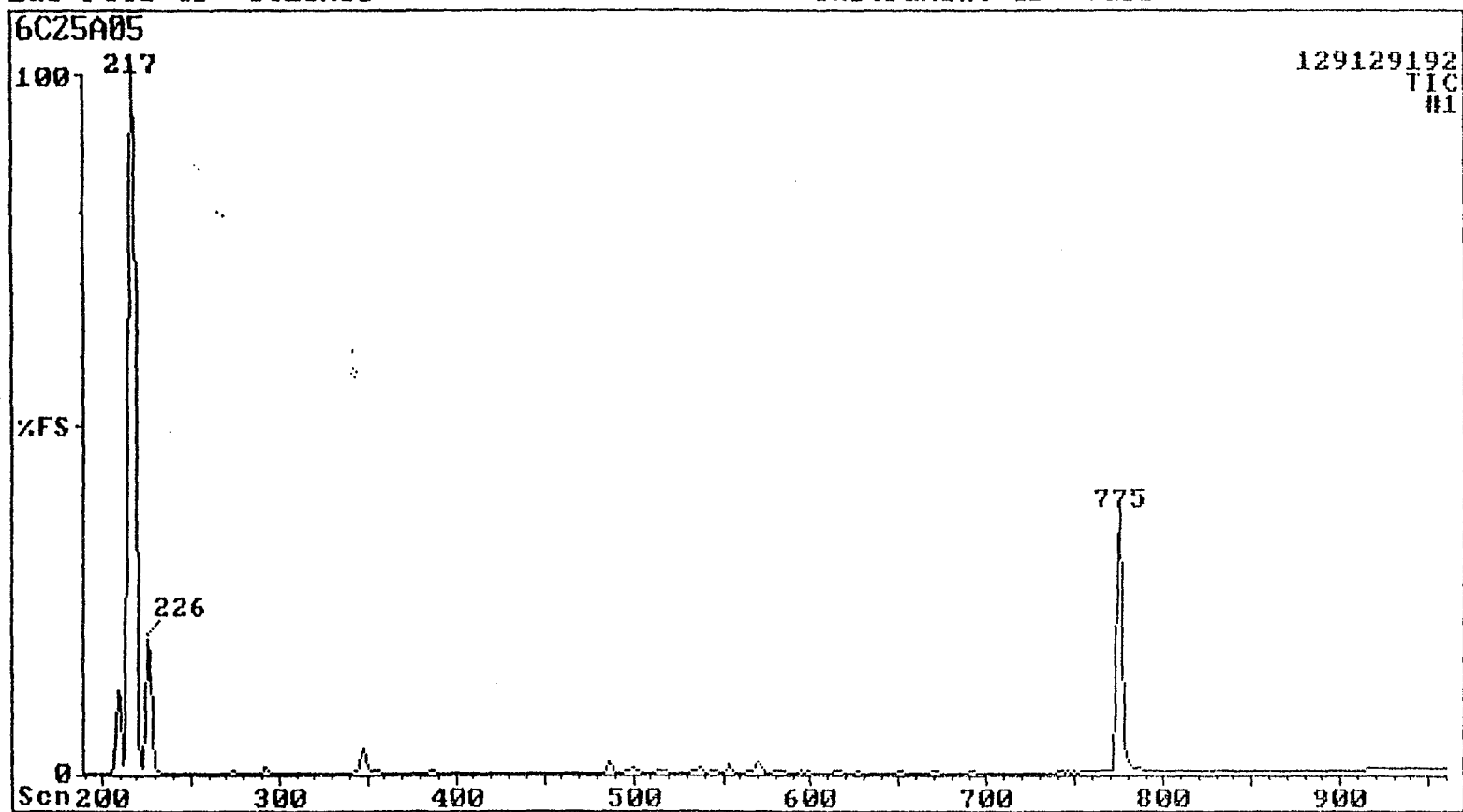
=====

Raw Datafile : 6025A05	Quan DB : 6025A05
Find DB : NNDMA	Scan DB : NONE

No.	MAT	FDR	REV	Diff	Peak Area Flgs	Scan Found	Pred	QM	Compound Name
1	100	89	100	1	142039503 b?	775	774	190	2,2'-Difluorobiphenyl
2	100	96	100	0	40629079 b?	226	226	80	N-Nitrosodimethylamine-d6
3	94	59	92	-1	666664 bb	229	230	74	N-Nitrosodimethylamine

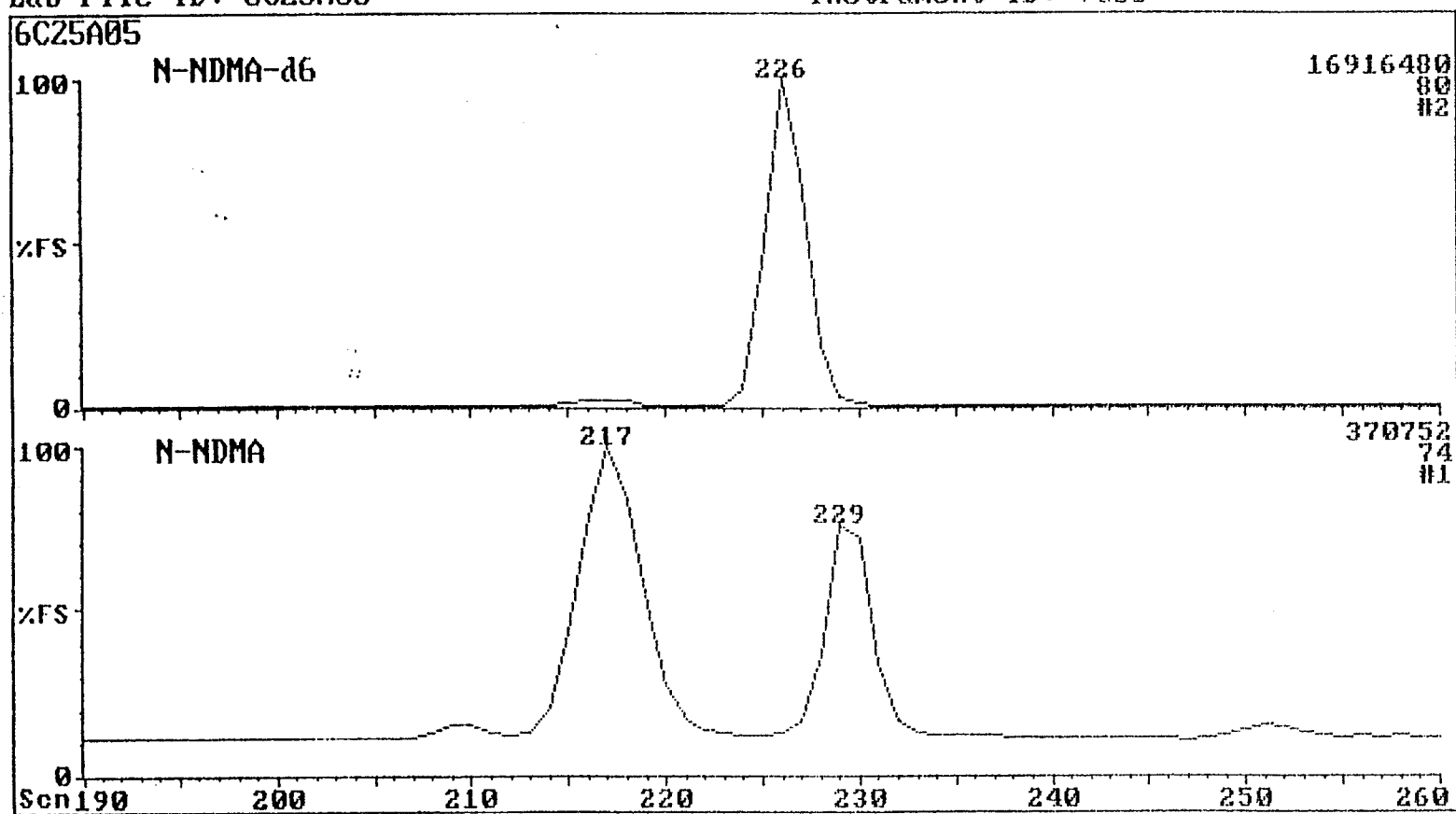
Sample No.: 0.02 PPM STD
Lab File ID: 6C25A05

Analyzed: 03/25/99 1605
Instrument ID: VG06



Sample No.: 0.02 PPM STD
Lab File ID: 6C25A05

Analyzed: 03/25/99 1605
Instrument ID: VG06



Sample: 0.05 PPM STD NSTD0.05 Analyzed: 03/25/99 1646
 Lab File: 6C25A06 Instrument ID: 06

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Interim Report	LAB-BASE FIND	03/26/99	0734
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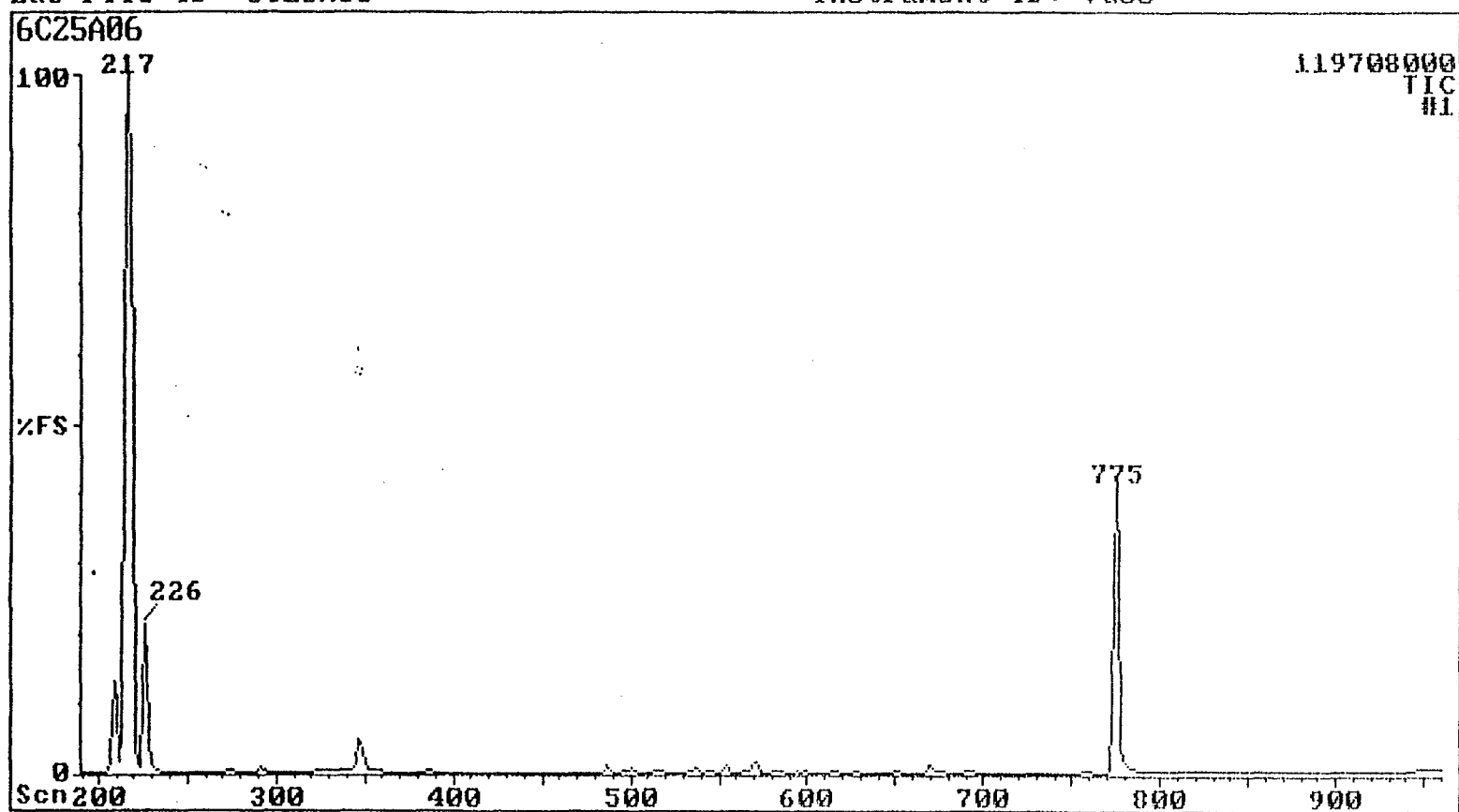
=====

Raw Datafile : 6C25A06	Quan DB : 6C25A06
Find DB : NNDMA	Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		QM	Compound Name
	MAT	FDR	REV	Diff	Area	Flgs	Found	Pred		
1	100	90	100	1	135675981	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	96	99	0	40050321	b?	226	226	80	N-Nitrosodimethylamine-d6
3	97	64	97	-1	1707320	b?	229	230	74	N-Nitrosodimethylamine

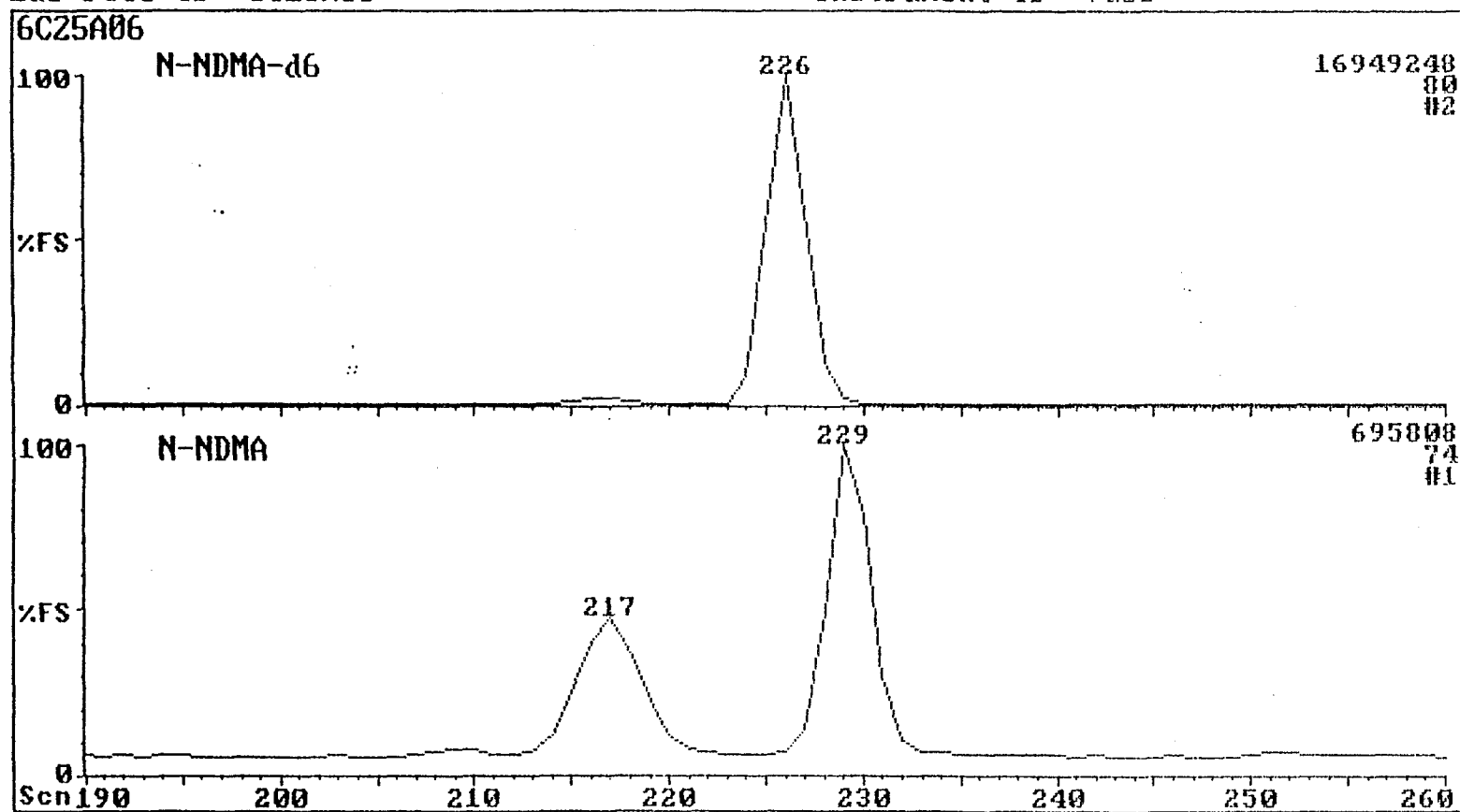
Sample No.: 0.05 PPM STD
Lab File ID: 6C25A06

Analyzed: 03/25/99 1646
Instrument ID: VG06



Sample No.: 0.05 PPM STD
Lab File ID: 6C25A06

Analyzed: 03/25/99 1646
Instrument ID: VG06



Sample: 0.10 PPM STD NSTDO.10 Analyzed: 03/26/99 1728
 Lab File: 6C25A07 Instrument ID: 06

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Interim Report	LAB-BASE FIND	03/26/99	0735
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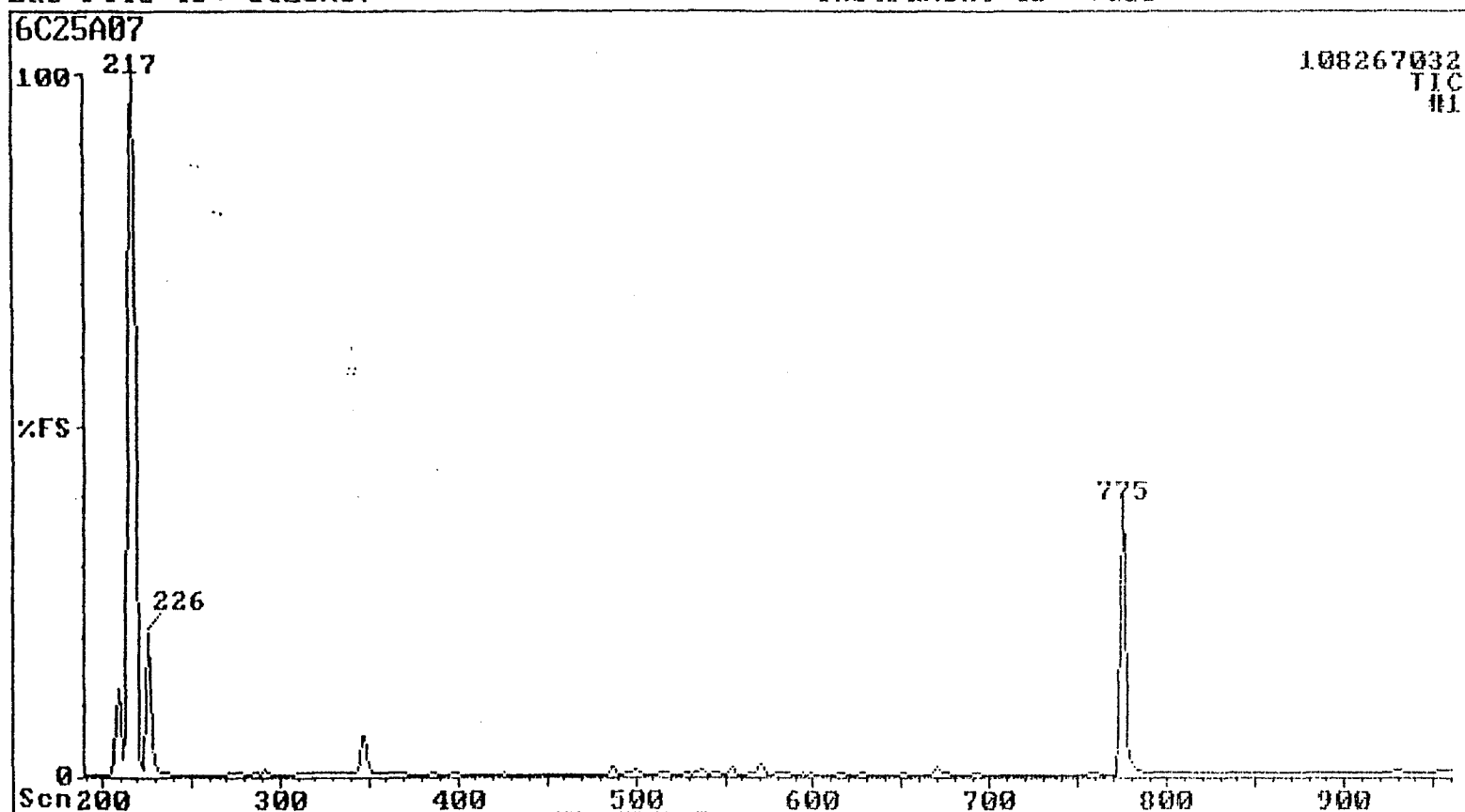
=====

Raw Datafile : 6C25A07 Quan DB : 6C25A07
 Find DB : NNDMA Scan DB : NONE

No.	Spectrum Scan				Peak Area Flgs	Scan		QM Compound Name
	MAT	FOR	REV	Diff		Found	Pred	
1	100	90	100	1	119506948 b?	775	774 190	2,2'-Difluorobiphenyl
2	100	95	99	0	34497449 b?	226	226 80	N-Nitrosodimethylamine-d6
3	100	77	98	-1	2860496 b?	229	230 74	N-Nitrosodimethylamine

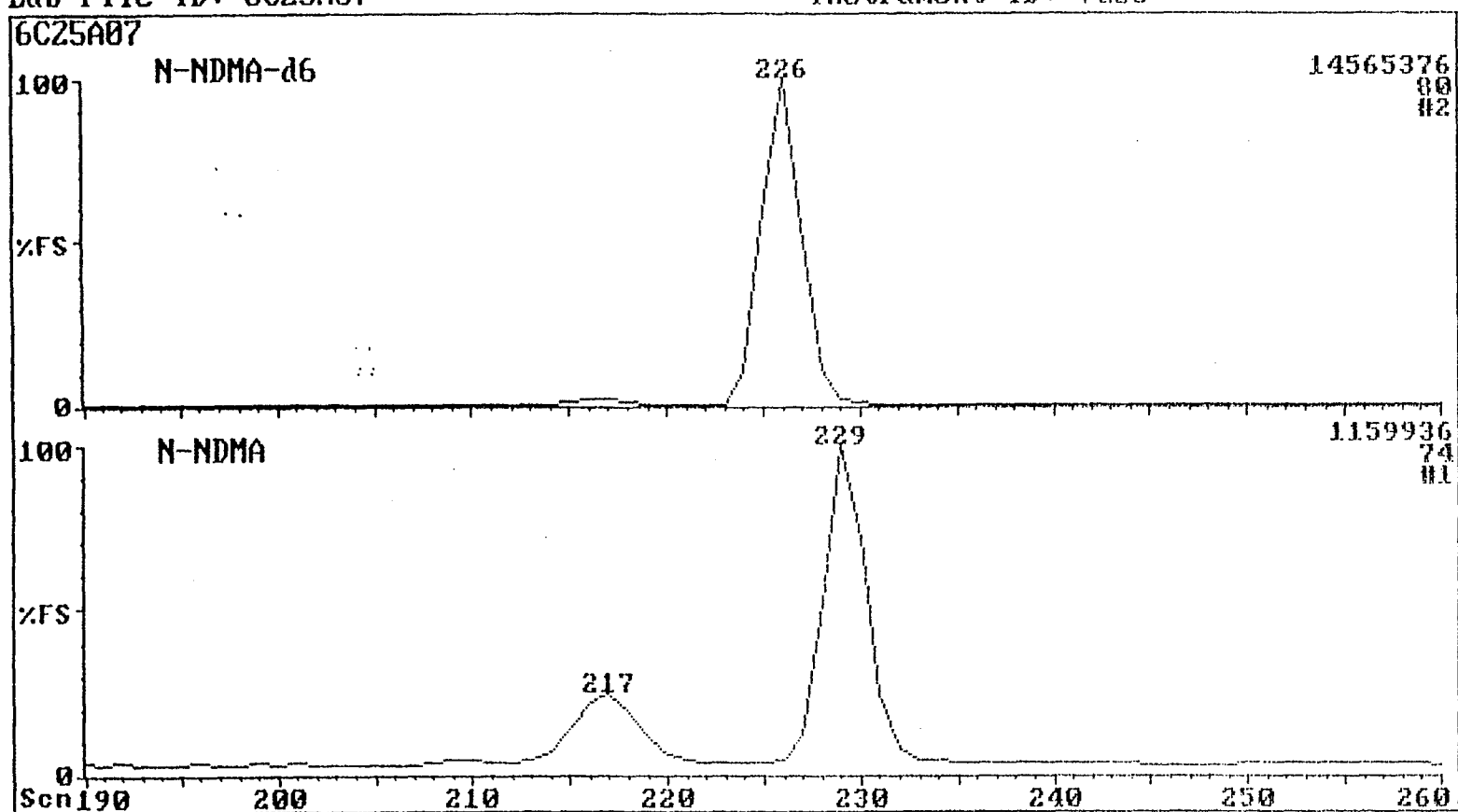
Sample No.: 0.10 PPM STD
Lab File ID: 6C25A07

Analyzed: 03/25/99 1728
Instrument ID: VG06



Sample No.: 0.10 PPM STD
Lab File ID: 6C25A07

Analyzed: 03/25/99 1728
Instrument ID: VG06



Sample: 0.50 PPM STD NSTDO.50 Analyzed: 03/25/99 1810
 Lab File: 6025A08 Instrument ID: 06

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Interim Report	LAB-BASE FIND	03/26/99	0736
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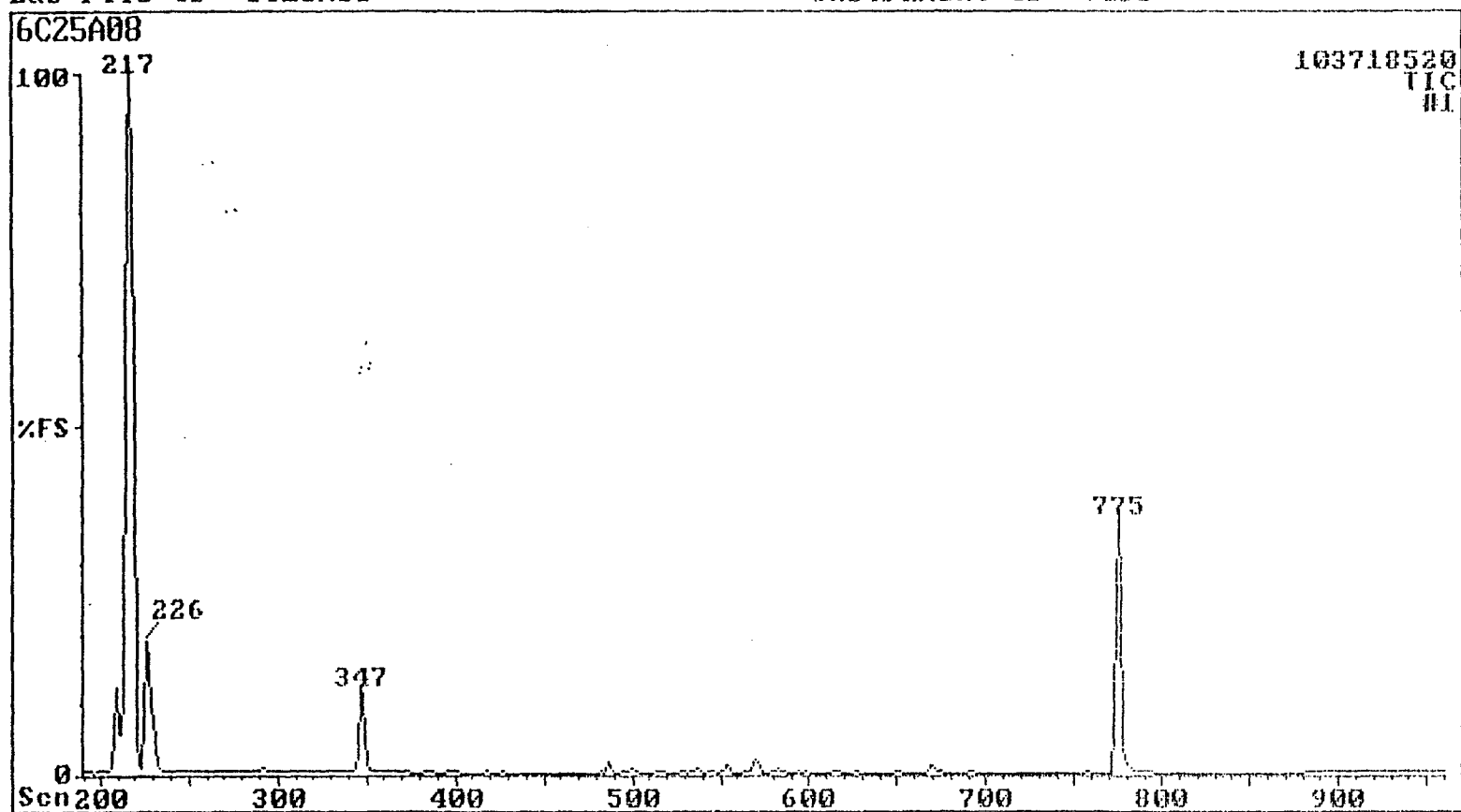
=====

Raw Datafile : 6025A08	Quan DB : 6025A08
Find DB : NNDMA	Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		GM Compound Name
	MAT	FDR	REV	Diff	Area	Flgs	Found	Pred	
1	100	90	100	1	105040581	b?	775	774 190	2,2'-Difluorobiphenyl
2	100	95	100	0	30969823	b?	226	226 80	N-Nitrosodimethylamine-d6
3	100	91	99	-1	12998048	b?	229	230 74	N-Nitrosodimethylamine

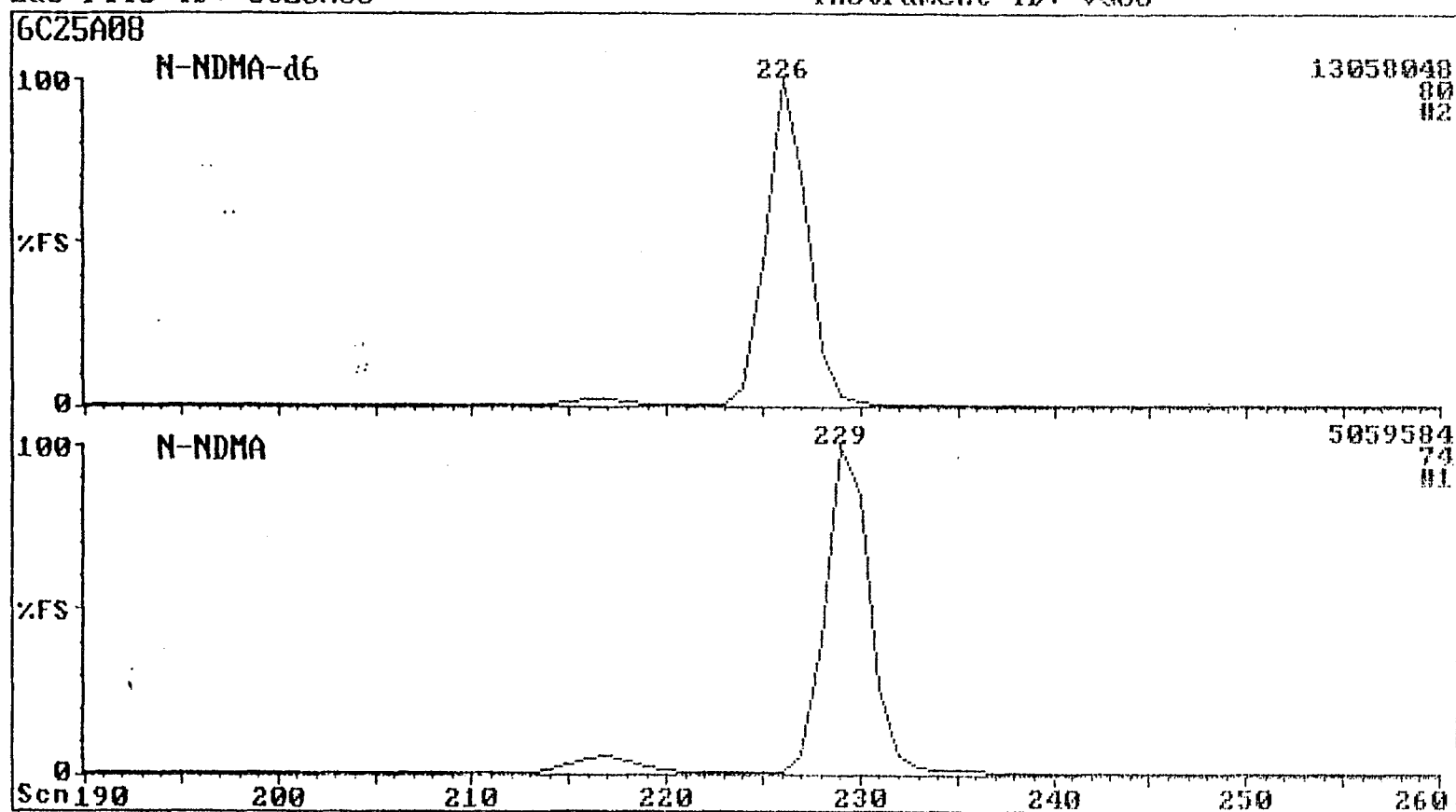
Sample No.: 0.50 PPM STD
Lab File ID: 6C25A08

Analyzed: 03/25/99 1810
Instrument ID: VG06



Sample No.: 0.50 PPM STD
Lab File ID: 6C25A08

Analyzed: 03/25/99 1810
Instrument ID: VG96



Sample: 1.00 PPM STD NSTD1.00 Analyzed: 03/25/99 1852
 Lab File: 6C25A09 Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	0737
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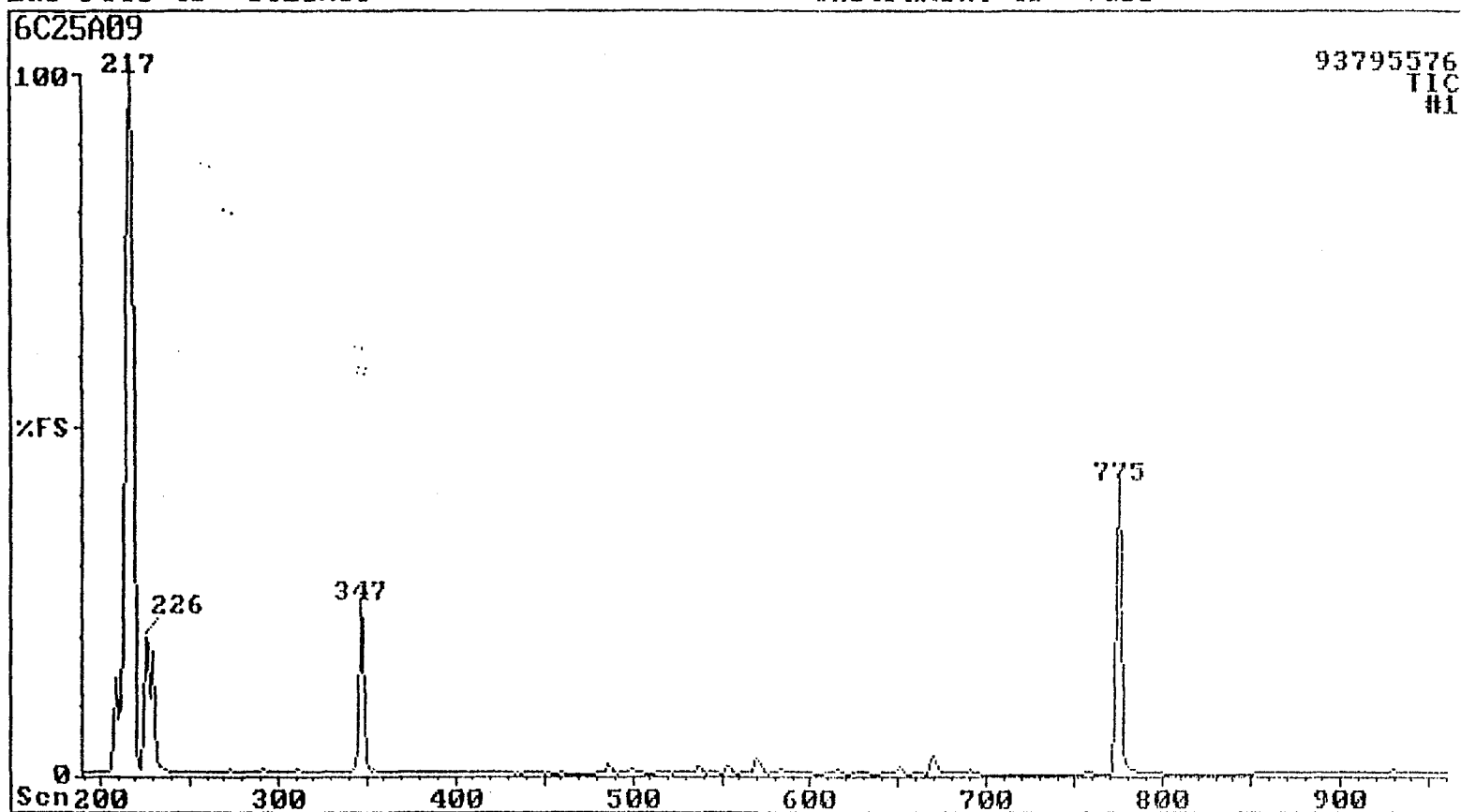
=====

Raw Datafile : 6C25A09 Quan DB : 6C25A09
 Find DB : NNDMA Scan DB : NONE

No.	MAT	Spectrum	Scan	Diff	Peak	Area	Flgs	Found	Pred	QM	Compound Name
1	100	50	100	1	107364121	b7	775	774	190	2,2'-Difluorobiphenyl	
2	100	95	100	0	30106551	b7	226	226	80	N-Nitrosodimethylamine-d6	
3	100	95	99	-1	25386272	b7	229	230	74	N-Nitrosodimethylamine	

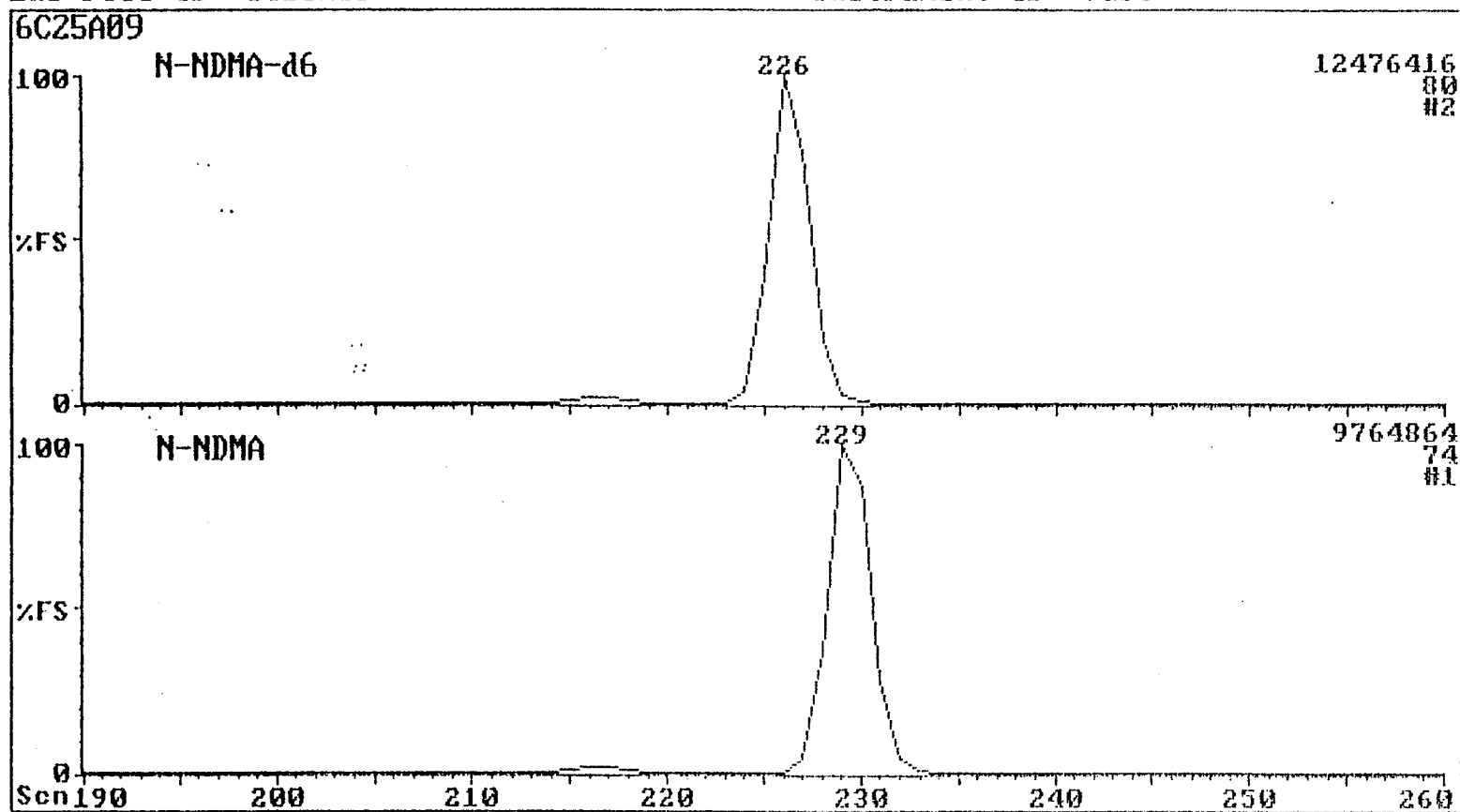
Sample No.: 1.00 PPM STD
Lab File ID: 6C25A09

Analyzed: 03/25/99 1852
Instrument ID: VG06



Sample No.: 1.00 PPM STD
Lab File ID: 6C25A09

Analyzed: 03/25/99 1852
Instrument ID: VG06



ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

P&R D15

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: P&R D15
Lab File ID: 6C25A10
Date Sampled:
Date Extracted: 03/24/99
Date Analyzed: 03/25/99
Time Analyzed: 1933

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.06		87 %

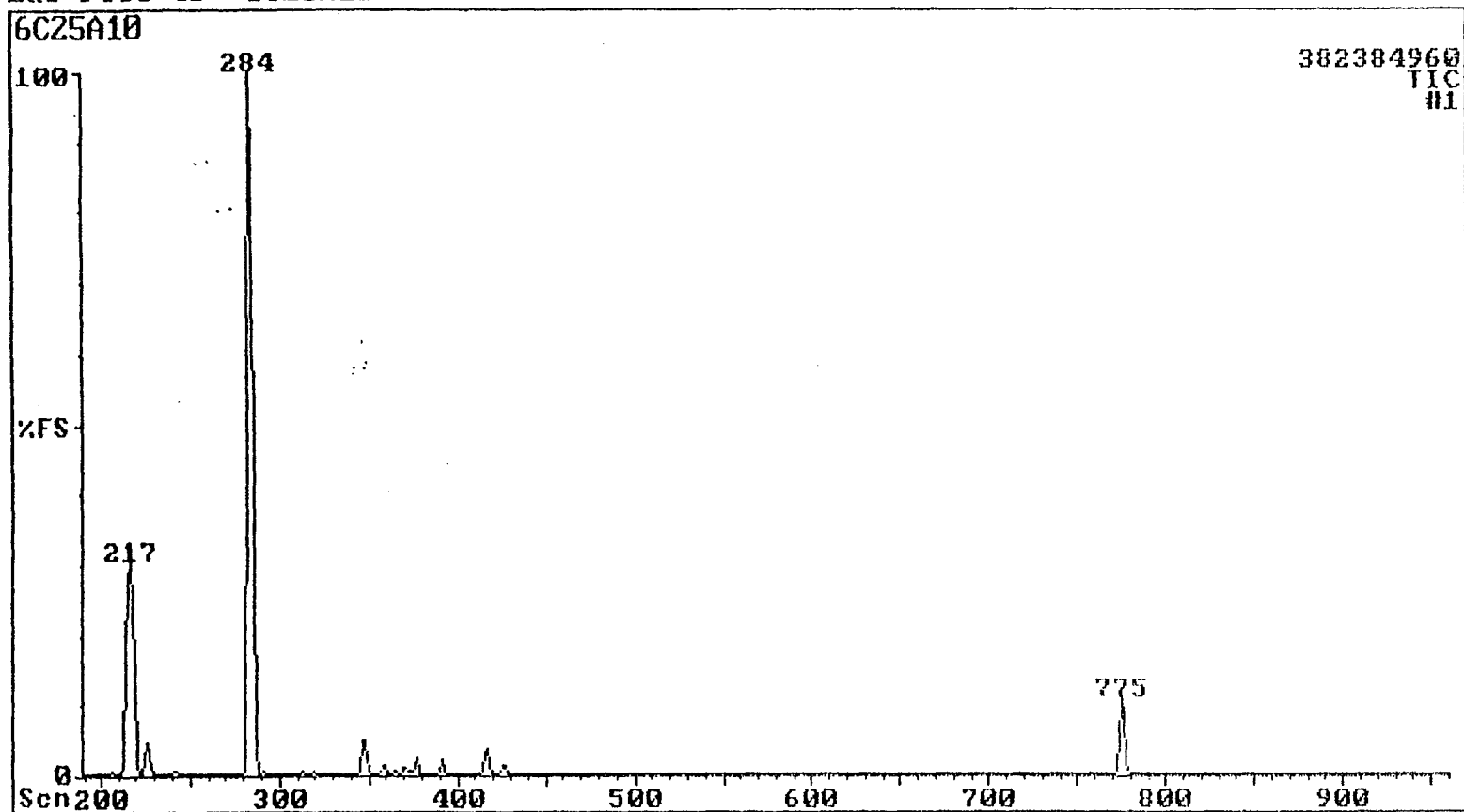
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

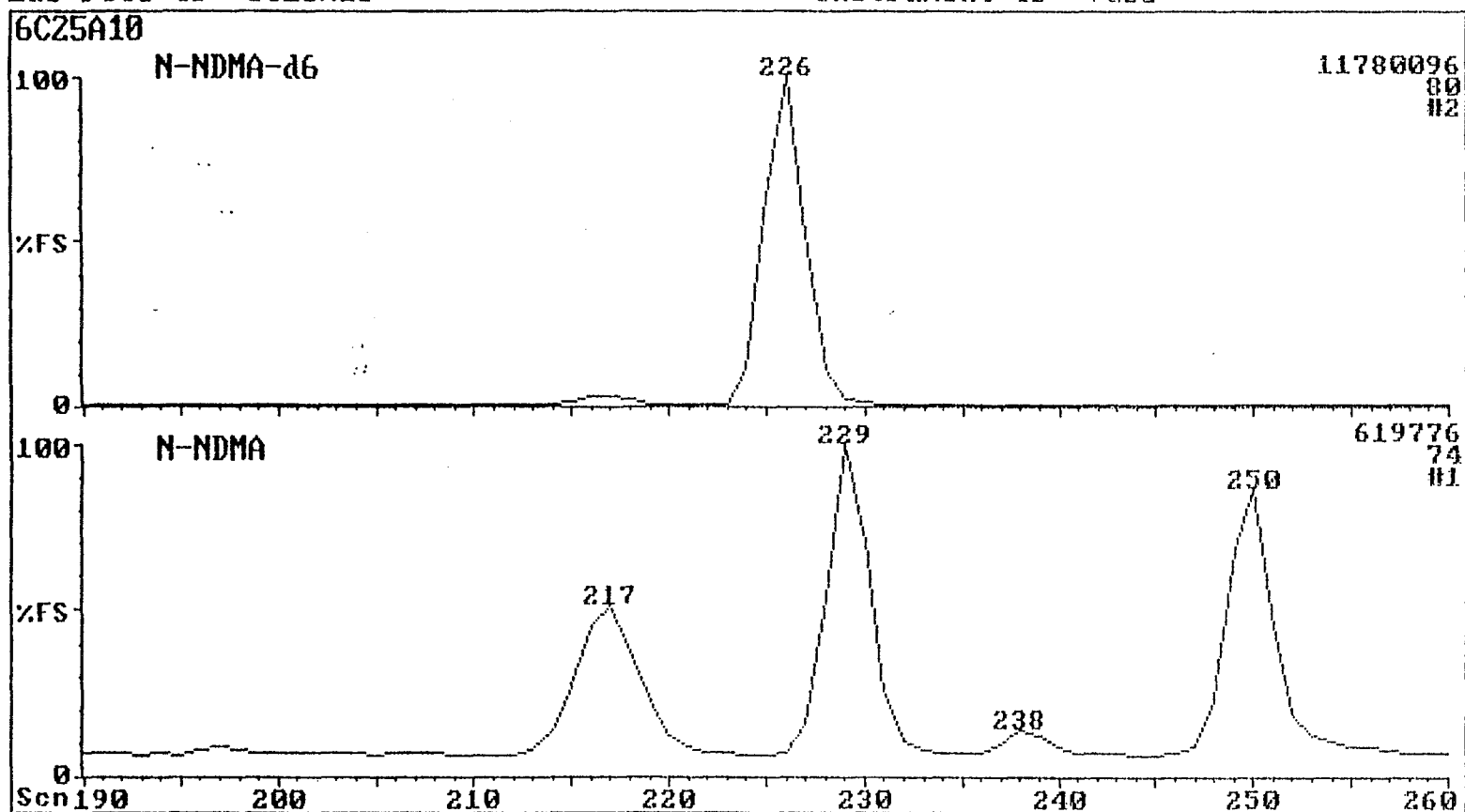
Sample No.: P&R D15
Lab File ID: 6C25A10

Analyzed: 03/25/99 1933
Instrument ID: VG06



Sample No.: P&R D15
Lab File ID: 6C25A10

Analyzed: 03/25/99 1933
Instrument ID: VG06



Sample: P&R D15
Lab File: 6C25A10

P&R D15

Analyzed: 03/25/99 1933
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0808

Raw Datafile : 6C25A10
Find DB : NNDMA

Quan DB : 6C25A10
Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		QM Compound Name	
	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred		
1	100	91	100	1	112646127	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	94	99	0	282300000	b?	226	226	80	N-Nitrosodimethylamine-d6
3	100	69	97	-1	1471104	b?	229	230	74	N-Nitrosodimethylamine

On-going Accuracy (P&R) Check

=====

EPA Name: P&R D15	Lab ID: P&R D15	Lab File: 6025A10
Instr: 06	ICAL: 6025	Acquisition Date: 03/25/99 Acquisition Time: 1933

=====

Compound	Target Conc.	Rec.	Label Rec.	Limits
N-Nitrosodimethylamine	0.06	61.77	86.6	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

B9052

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: 9052
Lab File ID: 6C25A12
Date Sampled:
Date Extracted: 03/24/99
Date Analyzed: 03/25/99
Time Analyzed: 2057

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	88 %

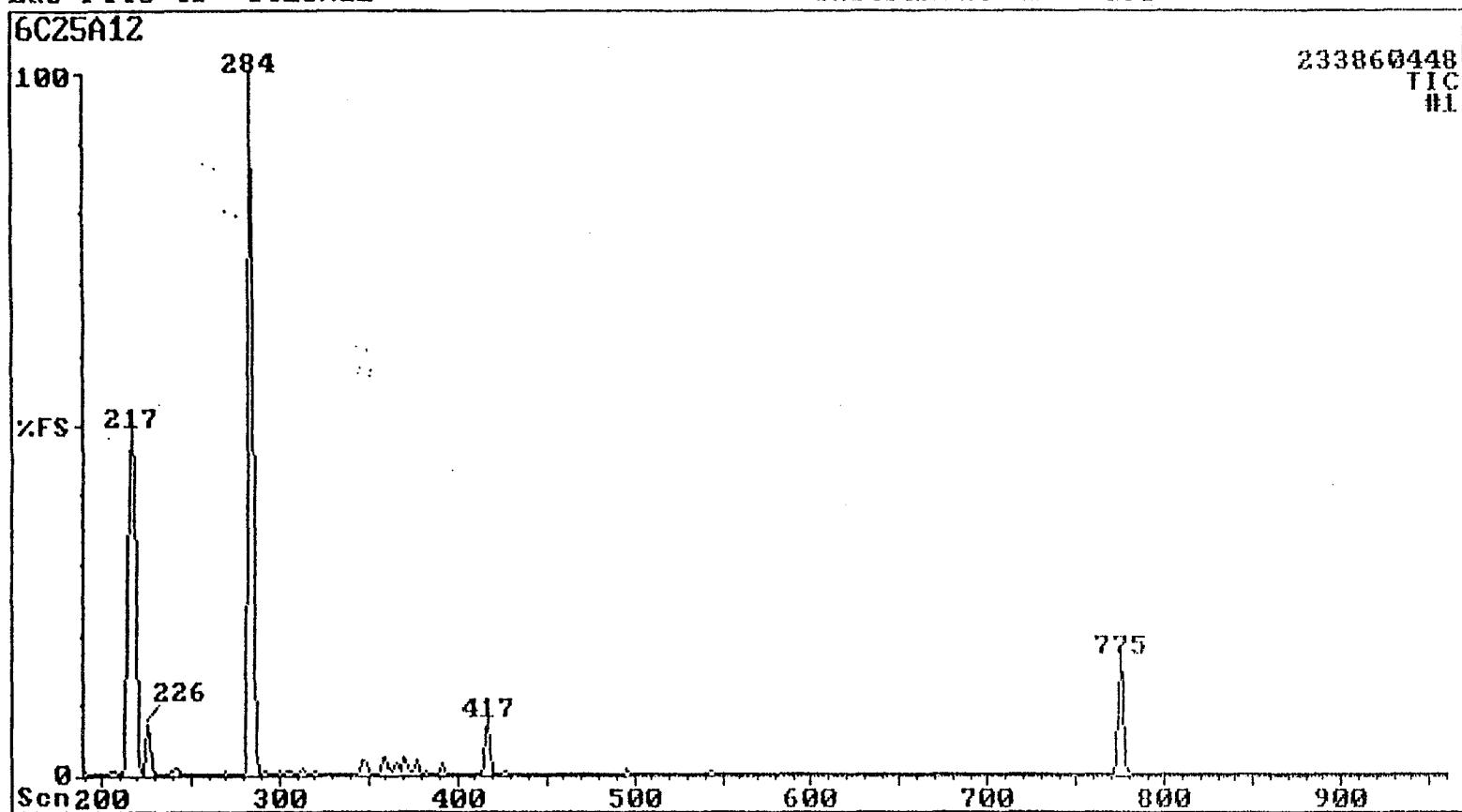
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

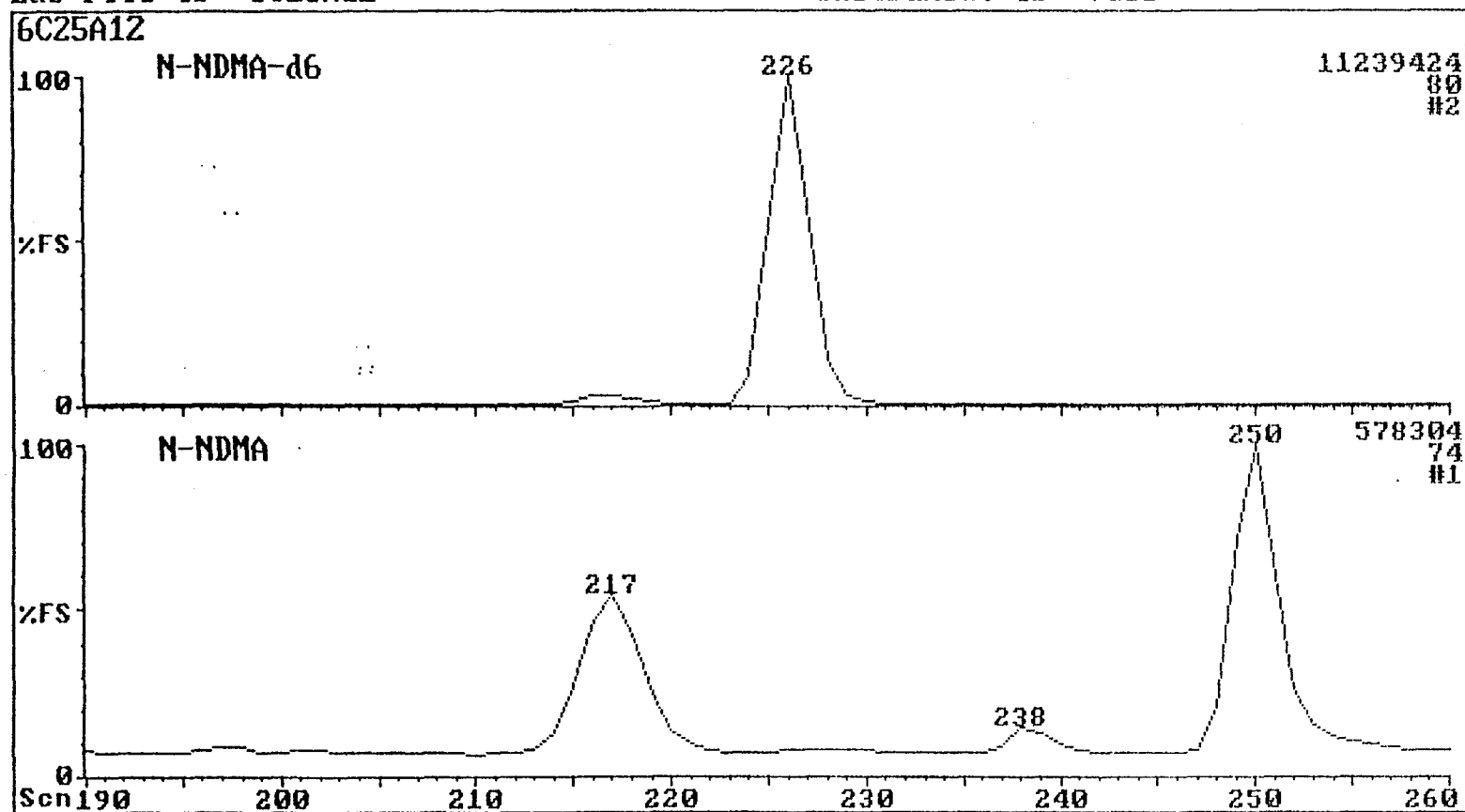
Sample No.: B9052
Lab File ID: 6C25A12

Analyzed: 03/25/99 2057
Instrument ID: VG06



Sample No.: B9052
Lab File ID: 6C25A12

Analyzed: 03/25/99 2057
Instrument ID: VG06



Sample: B9052 9052 Analyzed: 03/25/99 2057
 Lab File: 6025A12 Instrument ID: 06

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Interim Report	LAB-BASE FIND	03/26/99	0810
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=====

Raw Datafile : 6025A12 Quan DB : 6025A12
 Find DB : NNDMA Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		QM	Compound Name
	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred		
1	100	90	100	1	105356868	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	95	99	0	26823649	b?	226	226	80	N-Nitrosodimethylamine-d6
3	70	32	80	-1	12704	!!	229	230	74	N-Nitrosodimethylamine
	47	20	88	8	107296	!!	238			

Quantitation Results

=====

EPA Name: B9052	Lab ID: 9052	Lab File: 6025A12
Instr: 06	ICAL: 6025	Acquisition Date: 03/25/99 Acquisition Time: 2057

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	88.0	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

B9053

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: 9053
Lab File ID: 6C25A13
Date Sampled:
Date Extracted: 03/24/99
Date Analyzed: 03/25/99
Time Analyzed: 2138

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	91 %

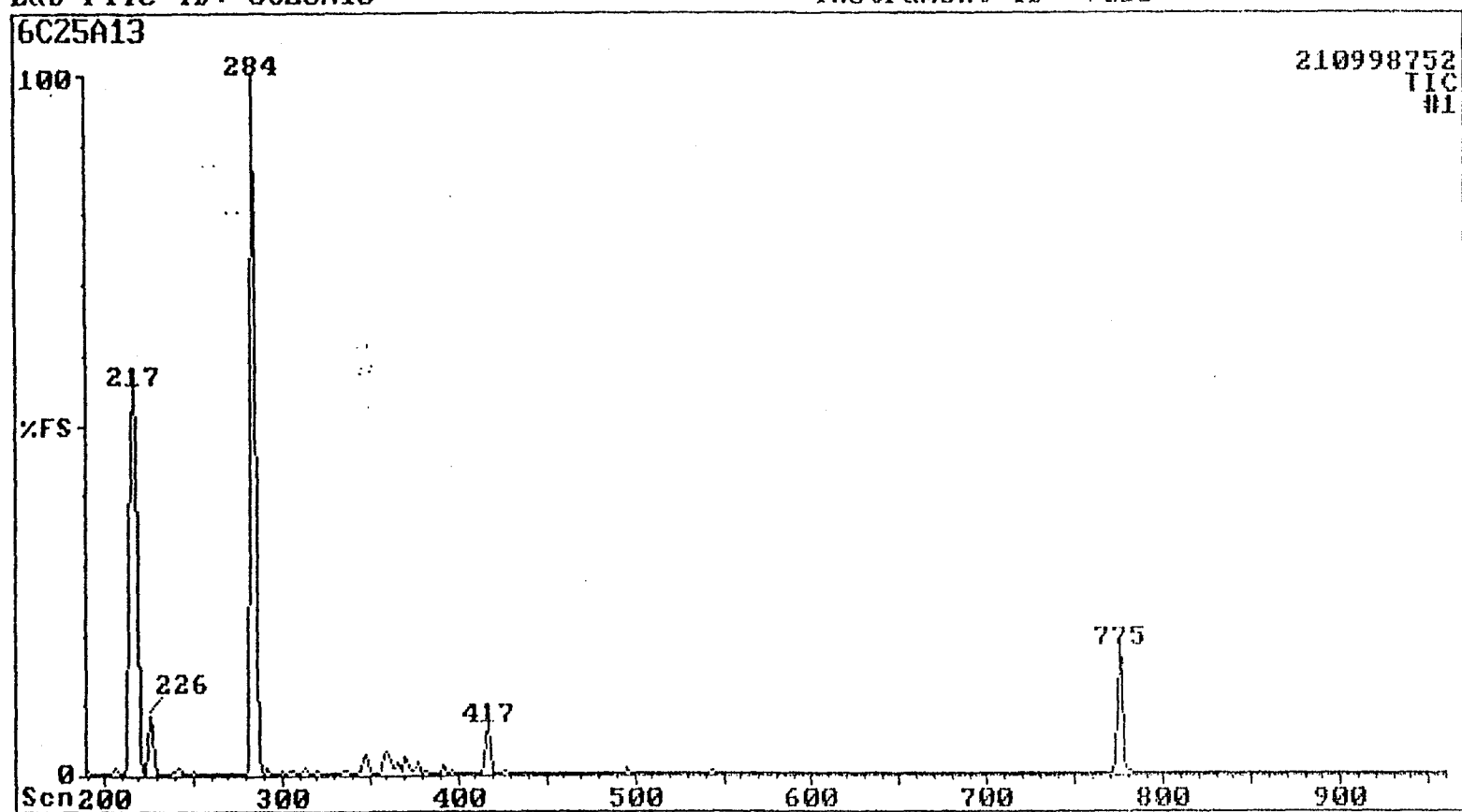
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

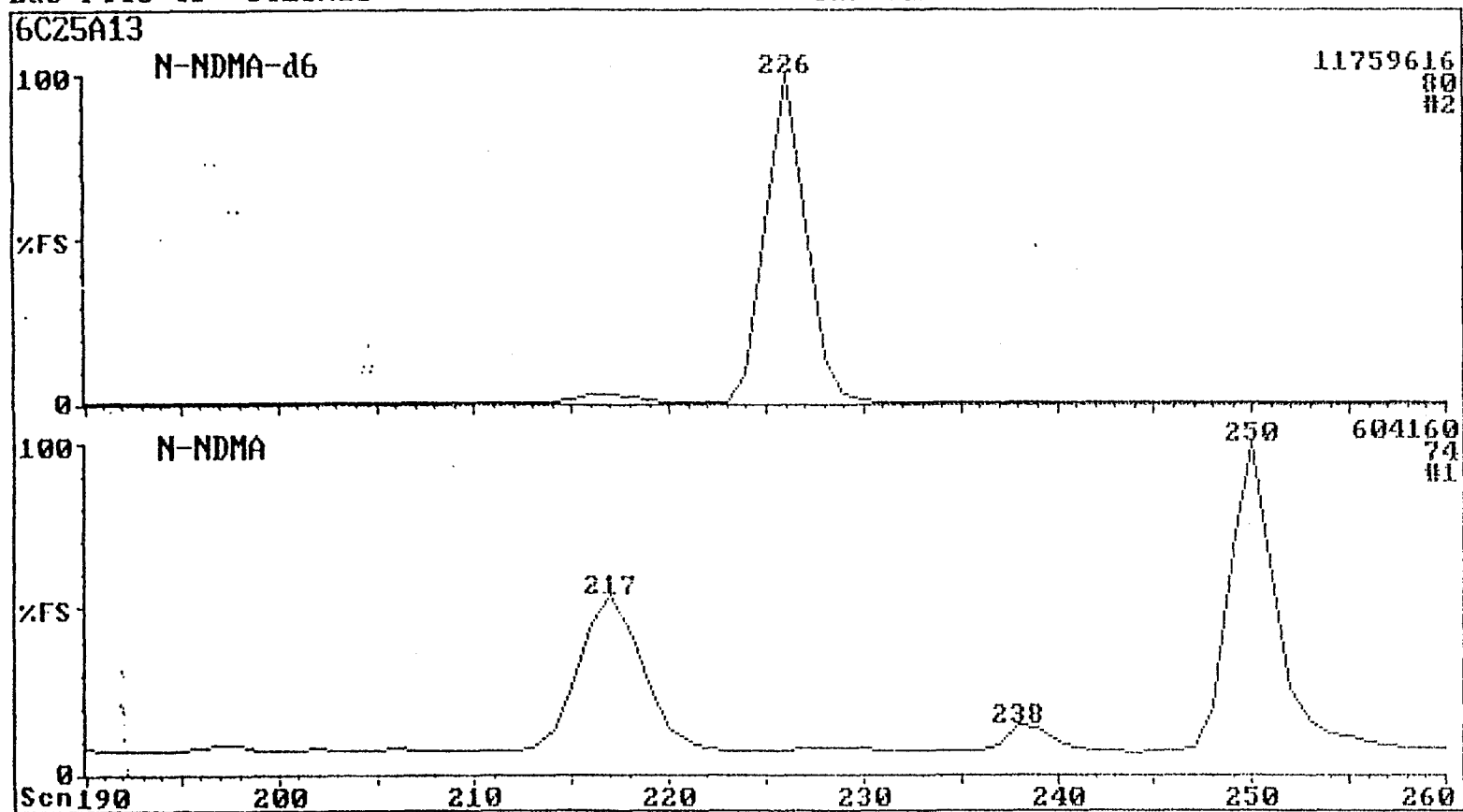
Sample No.: B9053
Lab File ID: 6C25A13

Analyzed: 03/25/99 2138
Instrument ID: VG06



Sample No.: B9053
Lab File ID: 6C25A13

Analyzed: 03/25/99 2138
Instrument ID: VG06



Analyzed: 03/25/79 2138
Instrument ID: 06

03/26/99 0811

Quan DB : 6C25A13
Scan DB : NONE

Spectrum Scan					Peak		Scan				
No.	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred	QM	Compound Name	
1	100	90	100	1	106390168	b?	775	774	190	2,2'-Difluorobiphenyl	
2	100	95	99	0	27980591	b?	226	226	80	N-Nitrosodimethylamine-d6	
3	69	36	79	0	17237	!!	230	230	74	N-Nitrosodimethylamine	
	47	20	89	8	129840	b?	238				

Quantitation Results

=====

EPA Name: B9053	Lab ID: 9053	Lab File: 6025A13
Instr: 06	ICAL: 6025	Acquisition Date: 03/25/99 Acquisition Time: 2138

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	90.9	25 - 175

Pacific Analytical
GC/MS SEMI-VOLATILES
RUN LOG

Instrument: V686

Page: 362

Cal File: 6C25

Date: 3/25/99

Notes: P 74, P82, P80, P81 NNDMA
Tune Pur: SIR=5, SEC=100, SF1=14, SF3=210, QL=6.0, QA=10.9, DM=700
SEE=70, SF2=210, SF4=21, QIE=1.5, QIR=1.0

GC Par: 40°C 2.5 min, 15°C/min to 280 Hold 15 min

Taped	Sample ID	File Name	OK	Description	OP
		6C25A01		Warm-up	CB
		02			
		03			
		04			
	NSSTD0.02	05		0.02 ug/ml NNDMA + DiethylCAL	
	NSSTD0.05	06		0.05	
	NSSTD0.10	07		0.10	
	NSSTD0.50	08		0.50	
	NSSTD 1.00	09		1.00	
	P&R D15	10			
	P&R DK Dup	11			
	9052	12			
	9053	13			
	P8201	14			
	P7401	15			
	P7402	16			
	P8001	17			
	P8002	18			
	P8003	19			
	P8004	20			
	P8101	21			
	P8102	22			
	NSSTD0.10	23		0.10 ug/ml NNDMA Daily	
	P8103	24			
	P8104	25			

Pacific Analytical
GC/MS SEMI-VOLATILES
RUN LOG

Instrument: V606

Page: 363

Cal File: 6C25

Date: 3/25/99

Notes: Same as Page 362

[illegible]

06/21/93

Reviewed by: _____ on: _____

PACIFIC ANALYTICAL, INC.

*** SAMPLE RECEIPT LOG ***

PA JOB NUMBER: 180
(Sample Tracking Information)

JOB _____ TASK _____
(Invoice Information)

CUSTOMER: MONTGOMERY WATSON

RECEIVED BY: JTJ⁷

REVISION DATE: 03/24/99

REVISION TIME: 09:50

CHAIN OF CUSTODY RECEIVED: Y

SHIPPER: FEDEX
SHIPPER CODE: 4147-8266-4688

LAB SAMPLE NUMBER OF FIRST SAMPLE TO BE LOGGED IN: P80

[illegible]

COMMENTS: 1 MED. COOLER

**Montgomery Watson Laboratories**

555 E. Walnut Street
Pasadena, CA 91101
Ph (626) 568-6400 Fax (626) 568-6324

Date 03/22/99

Submittal Form

DEB

52813

Ship To **Steve Parsons**

Pacific Analytical, Inc
6349 Paseo del Lago
Carlsbad, CA 92009

(760) 438-3100

Reporting: One report for this MWL Project Number 52813

Do Not Combine Report with any other samples submitted under different MWL project numbers!

Report & Invoice must have the MWL Project Number and Sub PO#: 99-0353

Report all quality control data according to Method. Include dates analyzed,
date extracted (if extracted) and Method reference on the report. Fax results to 626-568-6324
Faxed results must have complete data & QC. Hardcopy report is due in hand on due date.
Please advise us immediately if Due Date will be missed.

If you have questions about these samples,
please call the MWL project manager

Debbie Frank

(626) 568-6449

MWL
Project # 52813

Report
Due: 4/1/99

For Prompt Payment, please mail Hardcopy Report & Invoice to attention of
Martha Frost Montgomery Watson Laboratories 555 East Walnut St Pasadena CA 91101
even if your arrangements were made with the MWL project manager.

Qty	Test Code	Use MWL Lab # for ID	Client Sample ID for reference only	Analysis Requested	Sample Date	Matrix	Container
1	CUSTOMMS DMA	990319306	MW-991-049	N-Nitrosodimethylamine (N-NDMA)	03/19/99	aq	2 1L amber glass / no preservative
1	CUSTOMMS DMA	990319307	MW-991-065	N-Nitrosodimethylamine (N-NDMA)	03/19/99	aq	2 1L amber glass / no preservative
1	CUSTOMMS DMA	990319308	MW-991-041	N-Nitrosodimethylamine (N-NDMA)	03/19/99	aq	2 1L amber glass / no preservative

53

Relinquished by:

Sample Control 03/22/99

Received by:

An Acknowledgement of Receipt is requested.

P74 | P80 | P81 | P82

Extraction Date: 3/24/99

Extraction Method: 1625M (NNDMA)

Extraction Solvent: MeCl₂

Lot #: 39025 Initials: MR

Matrix: water

Fractions Extracted: _____

Other Reagents: _____

Lot #: _____

Surrogate Spike:

Matrix Spike:

Internal Standard:

BN fraction:

Acid Fraction:

Label:	Date Made:	Concentration:	Volume added:	Date Spiked:	Initials:	Comments:
NVQMA label	8/13/98	20 μ g/mL	50 μ L	3/24/99	MD	
NVQMA wkq st.	8/13/98	1.0 μ g/mL	100 μ L	3/24/99	MD	
NVQMA IS	10/12/98	100 μ g/L	10 μ L	3/25/99	den	

[illegible]

QA Review:



MONTGOMERY WATSON LABORATORIES

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street

Pasadena, California 91101

Tel: 626 568 6400 Fax: 626 568 6324

1 800 566 LABS (1 800 566 5227)

Report
Comments
#52813

(990319306)

CUSTOMMS

Analytical results for CUSTOMMS N-NDMA were submitted by
Pacific Analytical, Inc. (PAI)

**MONTGOMERY WATSON LABORATORIES**

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street

Pasadena, California 91101

Tel: 626 568 6400 Fax: 626 568 6324

1 800 566 LABS (1 800 566 5227)

**Laboratory
Report
#52813**

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
19-mar-1999 18:29:42

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-049 (990319306) Sampled on 03/19/99								
	03/26/99	(	)	Custom GCMS Analysis	SUB PAI	None	0.0000	1
1,4-Dioxane								
03/25/99	03/29/99	94292	(ML/SW 8270	) 1,4-Dioxane	ND	ug/l	3.0	1
			(Surrogate	) 2-Fluorobiphenyl	81	% Rec		
			(Surrogate	) Nitrobenzene-d5	74	% Rec		
			(Surrogate	) Terphenyl-d14	47	% Rec		
MW-991-065 (990319307) Sampled on 03/19/99								
	03/26/99	(	)	Custom GCMS Analysis	SUB PAI	None	0.0000	1
1,4-Dioxane								
03/25/99	03/29/99	94292	(ML/SW 8270	) 1,4-Dioxane	ND	ug/l	3.0	1
			(Surrogate	) 2-Fluorobiphenyl	85	% Rec		
			(Surrogate	) Nitrobenzene-d5	75	% Rec		
			(Surrogate	) Terphenyl-d14	64	% Rec		
MW-991-041 (990319308) Sampled on 03/19/99								
	03/26/99	(	)	Custom GCMS Analysis	SUB PAI	None	0.0000	1
1,4-Dioxane								
03/25/99	03/29/99	94292	(ML/SW 8270	) 1,4-Dioxane	3.7	ug/l	3.0	1
			(Surrogate	) 2-Fluorobiphenyl	72	% Rec		
			(Surrogate	) Nitrobenzene-d5	85	% Rec		
			(Surrogate	) Terphenyl-d14	40	% Rec		

**MONTGOMERY WATSON LABORATORIES**

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street

Pasadena, California 91101

Tel: 626 568 6400 Fax: 626 568 6324

1 800 566 LABS (1 800 566 5227)

Laboratory

QC Report

#52813

Foster Wheeler Environmental, Inc

QC Batch #94292**1,4-Dioxane**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,4-Dioxane	10	8.36	83.6	(70.00 - 130.00)	
MBLK	1,4-Dioxane	ND				
MS	1,4-Dioxane	10	10.9	109.0	(70.00 - 130.00)	
MSD	1,4-Dioxane	10	8.80	88.0	(70.00 - 130.00)	21
MS	Spiked sample	Lab # 99	0319306		(0.00 - 0.00)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.



MONTGOMERY WATSON LABORATORIES

A division of Montgomery Watson Americas, Inc.

Quality Environmental Analysis

April 9, 1999

Foster Wheeler Environmental
611 Anton Blvd, Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 52758 (MW-991-038)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):

None

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Other Comments:

Pacific Analytical, Inc utilizing EPA method 1625C, analyzed n-Nitrosodimethylamine, NDMA. This is a Gas Chromatographic Mass Spectroscopic methodology utilizing Isotope dilution in Specific Ion Mode, GCMS-SIM. This method does not require an MS/MSD. The reporting limit is 0.03 ppb or 30 ppt. Any detects below the MRL, but above the MDL of 0.005 ppb, would show on the Quantitation Results page. Results below 0.030 ppb but above 0.005 are DNQ (Detect Not Quantifiable) these are estimates only. A standard at 0.020 ug/ml, equivalent to a sample concentration of 0.020 ppb, is the lowest standard analyzed with the calibration. All samples are ND, <0.030 ppb.

Montgomery Watson Laboratories analyzed 1,4-Dioxane following EPA method 8270 in the standard operating mode. The Minimum reporting limit is 3.0 ppb.

TIC's:

None

Method Variance:

None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

Laboratory
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

Southwest Service Center
4820 South Mill Avenue - Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Northern California Service Center
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

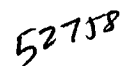
Customer Code: ENSERCH
PO#: Sub PO#007618-0005-0001
Group#: 52758
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 03/18/99. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
990318768	MW-991-038	@DIOXANE CUSTOMMS	Water	03/18/99

Test Acronym Description

Test Acronym	Description
@DIOXANE	1,4-Dioxane
CUSTOMMS	Custom GCMS Analysis

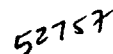


TEMP - 5-11
B-I = OK

PAGE 1 OF 1

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT JPL		OFS NO. 1572.0268.0000		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐				TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS											
PROJECT ADDRESS 4800 Oak Grove Drive																			
SAMPLER (Name) Jeff Brenner			SAMPLER (Signature)			ANALYSES REQUIRED													
LABORATORY Montgomery Watson																			
REPORTS TO BE SENT TO Mark Cutler																			
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			1,4-Dioxane	A D 2										
					WATER	SOIL	OTHER (Describe)												
MW-911-038 0931		3/18/11	2	2 x 1.0 l	X			X	X										
LABORATORY INSTRUCTIONS/COMMENTS LEVEL IV QA/QC																			
RELINQUISHED BY (Signature) [Signature]		DATE 3-18-11		RECEIVED BY (Signature) [Signature] M.W.		RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)									
COMPANY M.W.		TIME 15:45		COMPANY M.W.		COMPANY		TIME		COMPANY									



NUMBER **114**

TEMP. 5-11

D. P. 2 RSTICE OK

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE / OF

[illegible]

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL ~~IV~~ QA/QC

RELINQUISHED BY (Signature) <i>[Signature]</i>	DATE 3-18-79	RECEIVED BY (Signature) <i>[Signature]</i> M. DE ME	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY Futaba	TIME 15:45	COMPANY M.W	COMPANY	TIME	COMPANY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 3-18-99
 Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 3-18-99
 by (print) M. DE MESA (sign) _____

1. Did cooler come with shipping slip (air bill, etc.)? Yes No
 If YES, attach & enter carrier and air bill # here: DEL BY CLIENT

2. Were custody seals on outside of cooler? Yes No
 If YES, how many & where: 2 OUTSIDE LID OF COOLER
 If Yes, enter the following: seal date: 3-18-99, seal name: J. B.

3. Were custody seals unbroken & intact at delivery? Yes No

4. Were custody papers sealed in bag & taped to lid? Yes No

5. Were custody papers filled out properly (ink, etc.) Yes No

6. Did you sign custody papers in appropriate place? Yes No

7. Was project identifiable from custody papers? Yes No

8. Have designated person(s) initial to acknowledge receipt: 3-18-99 (date)
MLD

B. LOG-IN PHASE: Date samples were logged-in: 3-18-99 by:
 (print) M. DE MESA (sign) _____

9. Describe packing:

10. If required, was enough ice used? Yes No

11. Were all bottles sealed in separate plastic bags? Yes No

12. Did all bottles arrive unbroken/in good condition? Yes No

13. Were all bottle labels complete (ID, date, sign, pres)? Yes No

14. Did all bottle labels agree with custody papers?
 If NO, indicate discrepancies on back. Yes No

15. Were correct containers used for the analytes? Yes No

16. Were correct preservatives used when required? Yes No

17. Was sufficient amount of sample sent for tests? Yes No

18. Bubbles absent in VOA vials?
 If NO, list by sample id on back. Yes No

19. Was Client Services informed of problems? Yes No

rt Summary of positive results, PR52758

			Result	MDL	UNITS
alyzed	990318768	MW-991-038			
/26/99	Custom GCMS Analysis		SUB PAI		NONE

ENSERCH 52758

Semi-Volatiles DATA SUMMARY PACKAGE

CLIENT: MONTGOMERY WATSON
 JOB #: P80 - MWL Project # 52758
 DATE: MARCH 26, 1999



Pacific Analytical, Inc.
 6349 Paseo Del Lago □ Carlsbad, CA 92009
 (760) 438-3100

NARRATIVE REPORT
Method 1625C Semivolatiles

PA Reference: P80

03/26/99

Samples: MW-991-038

Semivolatiles analysis:

The samples were extracted and analyzed by Method 1625C, modified for the lowest possible detection limits. A 1000 mL aliquot was spiked with 1.0 ug of deuterated N-Nitrosodimethylamine-d6 and extracted with liquid-liquid extractors for 24 hours. The sample extract was concentrated to a final volume of 1.0 mL and then spiked with 1.0 ug of 2,2'-Difluorobiphenyl as an internal recovery standard. The extract was analyzed by GC/MS with the mass spectrometer operating in the "Specific Ion Mode" for greater sensitivity and lower detection limits. The instrument was calibrated with five initial calibration standards ranging from 0.02 ug/mL to 1.00 ug/mL. A recent minimum detection limit study suggests that the instrument is capable of detecting N-Nitrosodimethylamine (NNDMA) at 0.005 ug/mL. However for reporting purposes, our detection limit is 0.03 ug/mL which translates to a sample concentration of 0.03 ug/L.

On-Going Precision and Recovery

A laboratory blank (P&R) was spiked with 0.10 ug of NNDMA and its labeled analog, and extracted and analyzed like a sample for each analytical batch. Recoveries for NNDMA and its label were within method specified recovery limits.

Blank

A laboratory blank was extracted and analyzed like the sample with each extraction batch. NNDMA was not detected at or above our report limit of 0.03 ug/L.

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

MW-991-038

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: P8001
Lab File ID: 6C25A17
Date Sampled: 03/19/99
Date Extracted: 03/24/99
Date Analyzed: 03/26/99
Time Analyzed: 0025

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	72 %

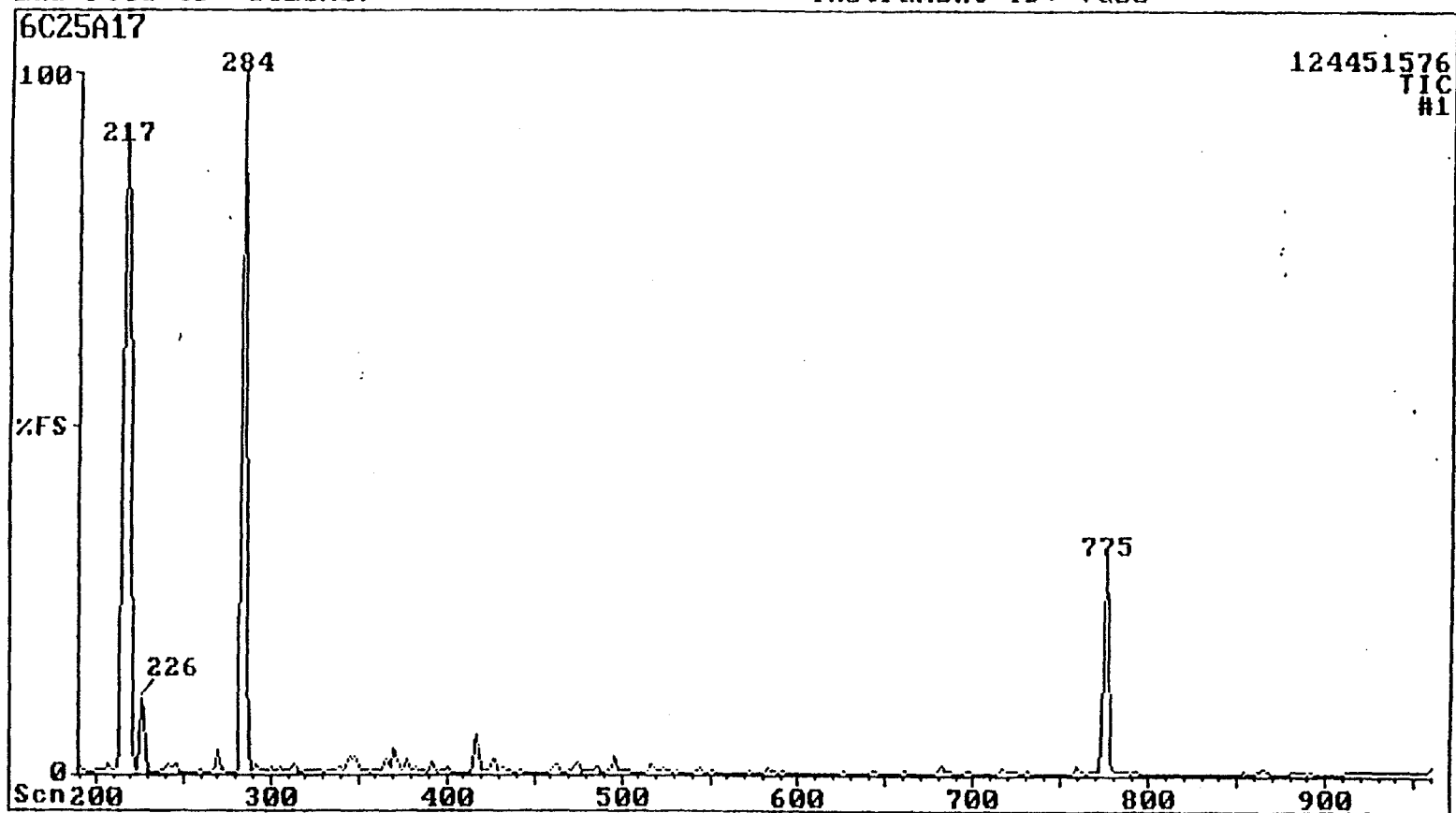
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

Sample No.: MW-991-038
Lab File ID: 6C25A17

Analyzed: 03/26/99 0025
Instrument ID: VG06

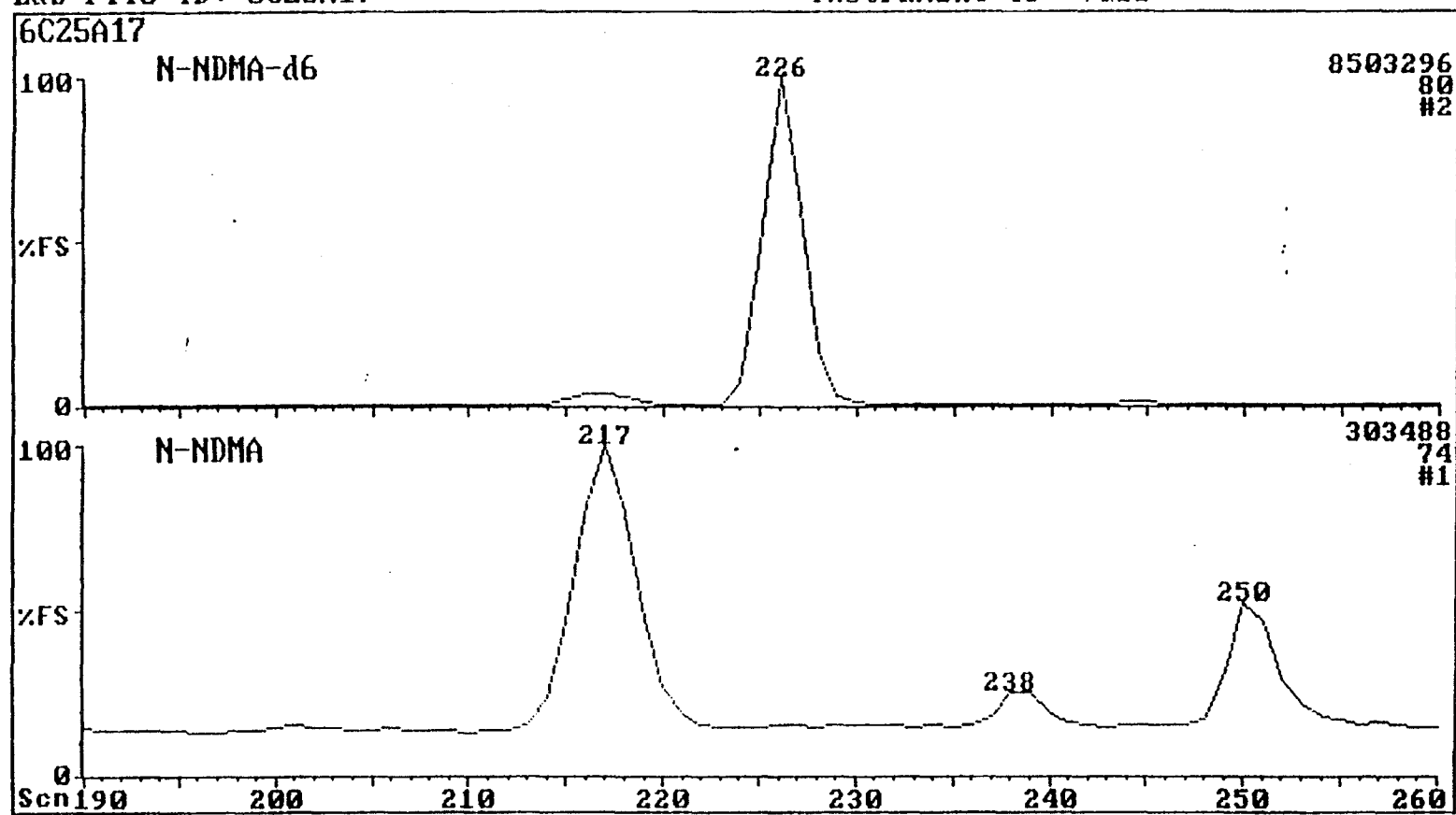


Sample No.: MW-991-038

Lab File ID: 6C25A17

Analyzed: 03/26/99 0025

Instrument ID: VG06



Sample: MW-991-038 P8001 Analyzed: 03/26/99 0025
 Lab File: 6C25A17 Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	0815
----------------	---------------	----------	------

=====

Raw Datafile : 6C25A17 Quan DB : 6C25A17
 Find DB : NNDMA Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		QM	Compound Name
	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred		
1	100	90	100	1	97137960	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	94	99	0	20318432	b?	226	226	80	N-Nitrosodimethylamine-d6
3	69	39	76	0	6459	!!	230	230	74	N-Nitrosodimethylamine
	48	25	86	8	91168	!!	238			

Quantitation Results

=====

EPA Name: MW-991-038	Lab ID: PB001	Lab File: 6C25A17
Instr: 06	ICAL: 6C25	Acquisition Date: 03/26/99 Acquisition Time: 0025

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	72.3	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
LABELED COMPOUNDS

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG06

Calibration Date: 03/25/99

LAB FILE IDs:

RF 0.02 = 6025A05
RF 0.05 = 6025A06
RF 0.10 = 6025A07
RF 0.50 = 6025A08
RF 1.00 = 6025A09

COMPOUND	RF 0.02	RF 0.05	RF 0.10	RF 0.50	RF 1.00	RF MEAN	% RSD
2 N-Nitrosodimethylamine-	0.287	0.295	0.289	0.295	0.280	0.289	2.1

Internal Standard = 1 ug/mL

Pollutant Compounds = 0.02, 0.05, 0.10, 0.50, 1.00 ug/mL

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
COMPOUNDS HAVING A LABELED REFERENCE

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG06

Calibration Date: 03/25/99

LAB FILE IDs:

RF 0.02 = 6C25A05
RF 0.05 = 6C25A06
RF 0.10 = 6C25A07
RF 0.50 = 6C25A08
RF 1.00 = 6C25A09

COMPOUND	RR 0.02	RR 0.05	RR 0.10	RR 0.50	RR 1.00	SLOPE	INTCP
3 N-Nitrosodimethylamine	0.016	0.043	0.083	0.420	0.843	1.186	0.001

Internal Standard = 1 ug/mL

Pollutant Compounds = 0.02, 0.05, 0.10, 0.50, 1.00 ug/mL

Sample: 0.02 PPM STD
Lab File: 6C25A05

NSTD0.02

Analyzed: 03/25/99 1605
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0734

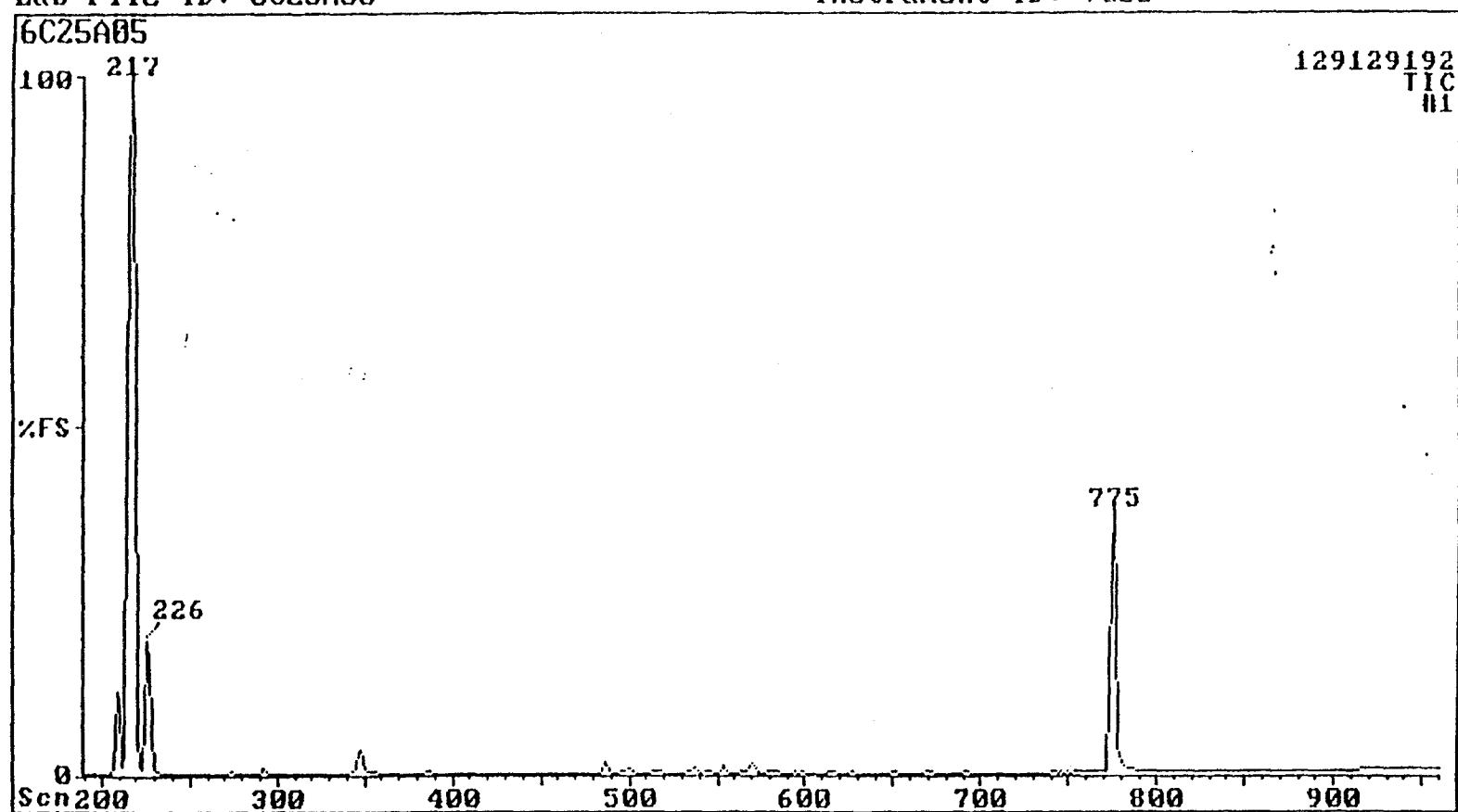
Raw Datafile : 6C25A05
Find DB : NNDMA

Quan DB : 6C25A05
Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		QM Compound Name	
	MAT	FDR	REV	Diff	Area	Flgs	Found	Pred		
1	100	89	100	1	142039503	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	96	100	0	40828079	b?	226	226	80	N-Nitrosodimethylamine-d6
3	94	59	92	-1	666664	bb	229	230	74	N-Nitrosodimethylamine

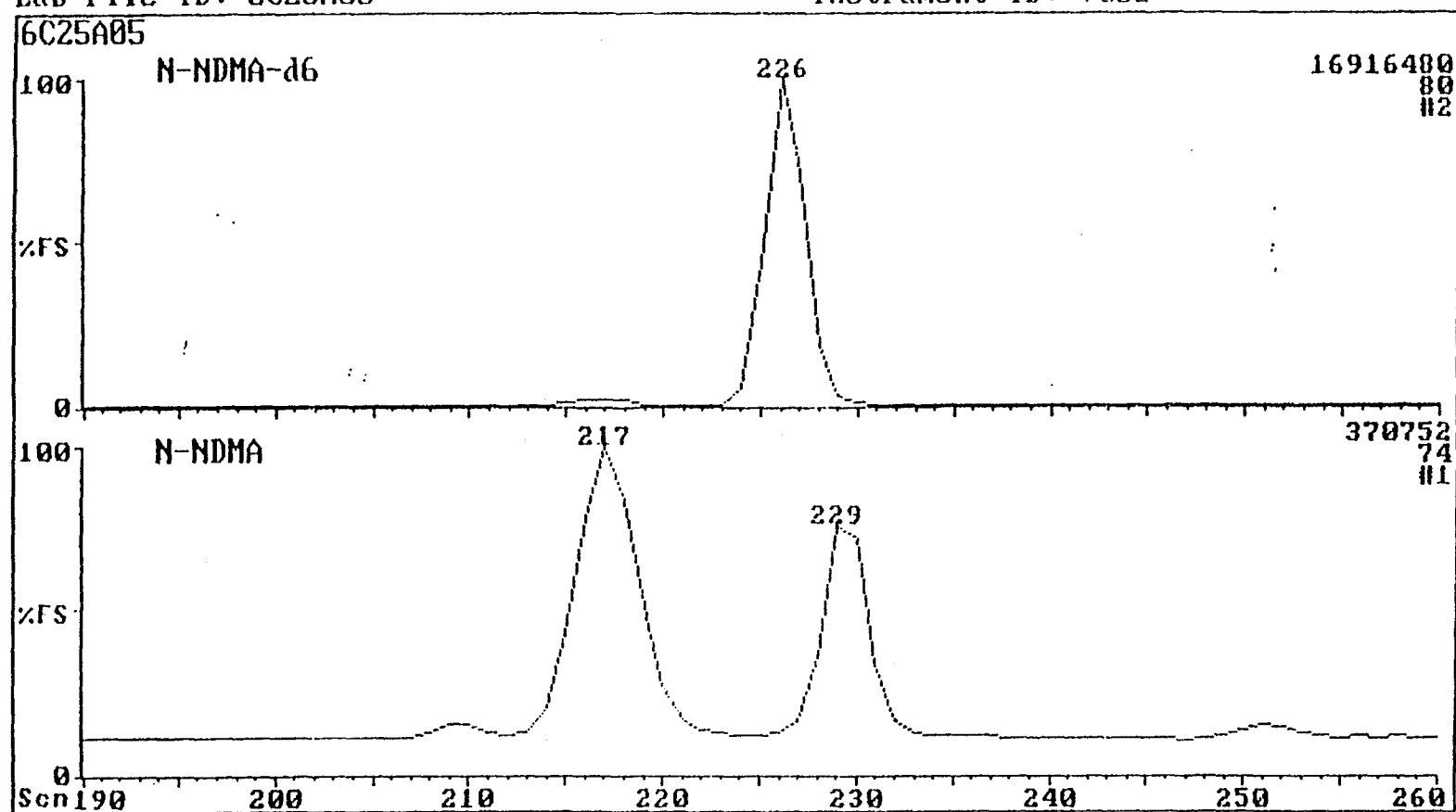
Sample No.: 0.02 PPM STD
Lab File ID: 6C25A05

Analyzed: 03/25/99 1605
Instrument ID: VG06



Sample No.: 0.02 PPM STD
Lab File ID: 6C25A05

Analyzed: 03/25/99 1605
Instrument ID: VG06



Sample: 0.05 PPM STD

NSTD0.05

Analyzed: 03/25/99

1646

Lab File: 6C25A06

Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99

0734

Raw Datafile : 6C25A06

Guan DB : 6C25A06

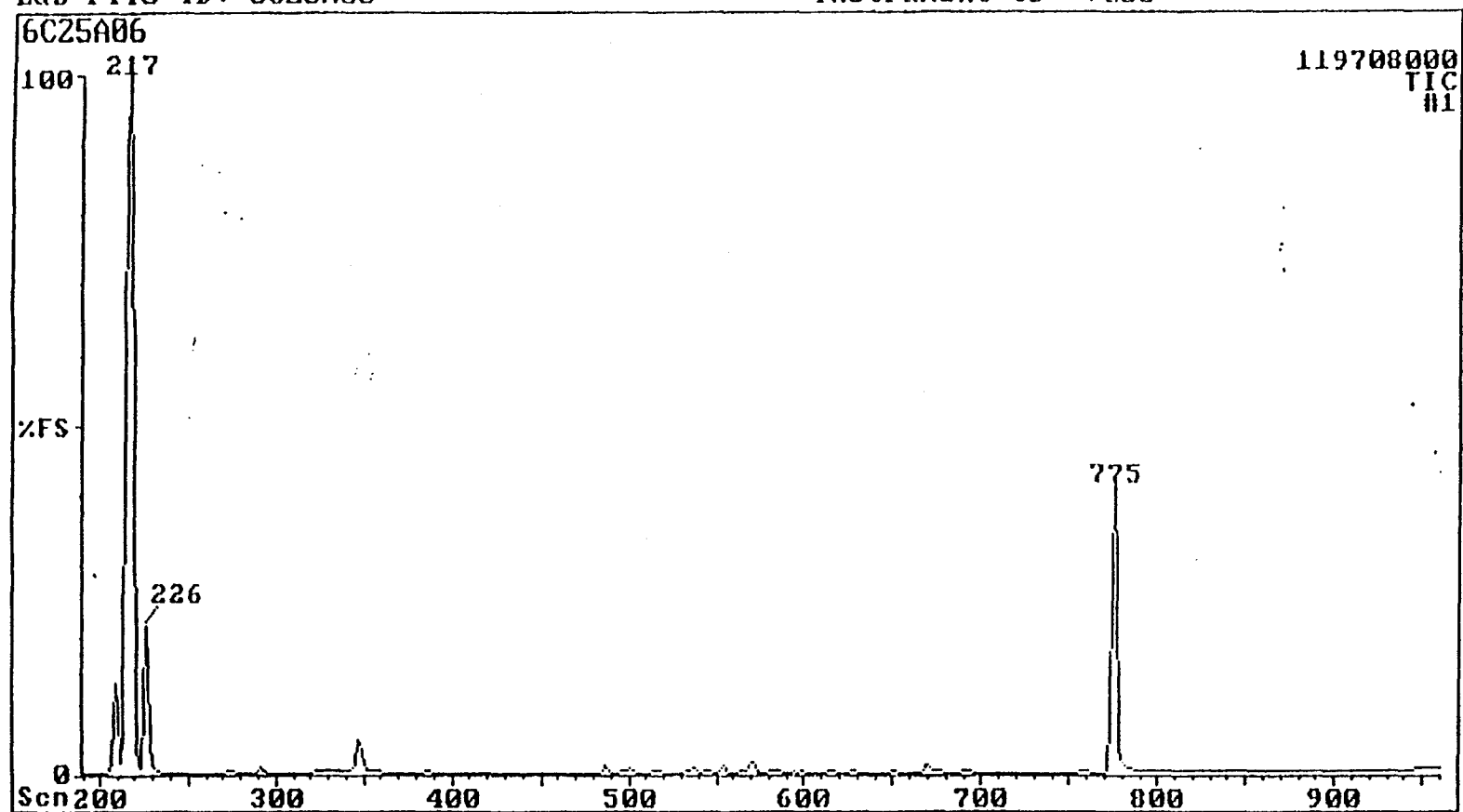
Find DB : NNDMA

Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		GM Compound Name
	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred	
1	100	90	100	1	135675981	b?	775	774 190	2,2'-Difluorobiphenyl
2	100	96	99	0	40050321	b?	226	226 80	N-Nitrosodimethylamine-d6
3	97	64	97	-1	1707320	b?	229	230 74	N-Nitrosodimethylamine

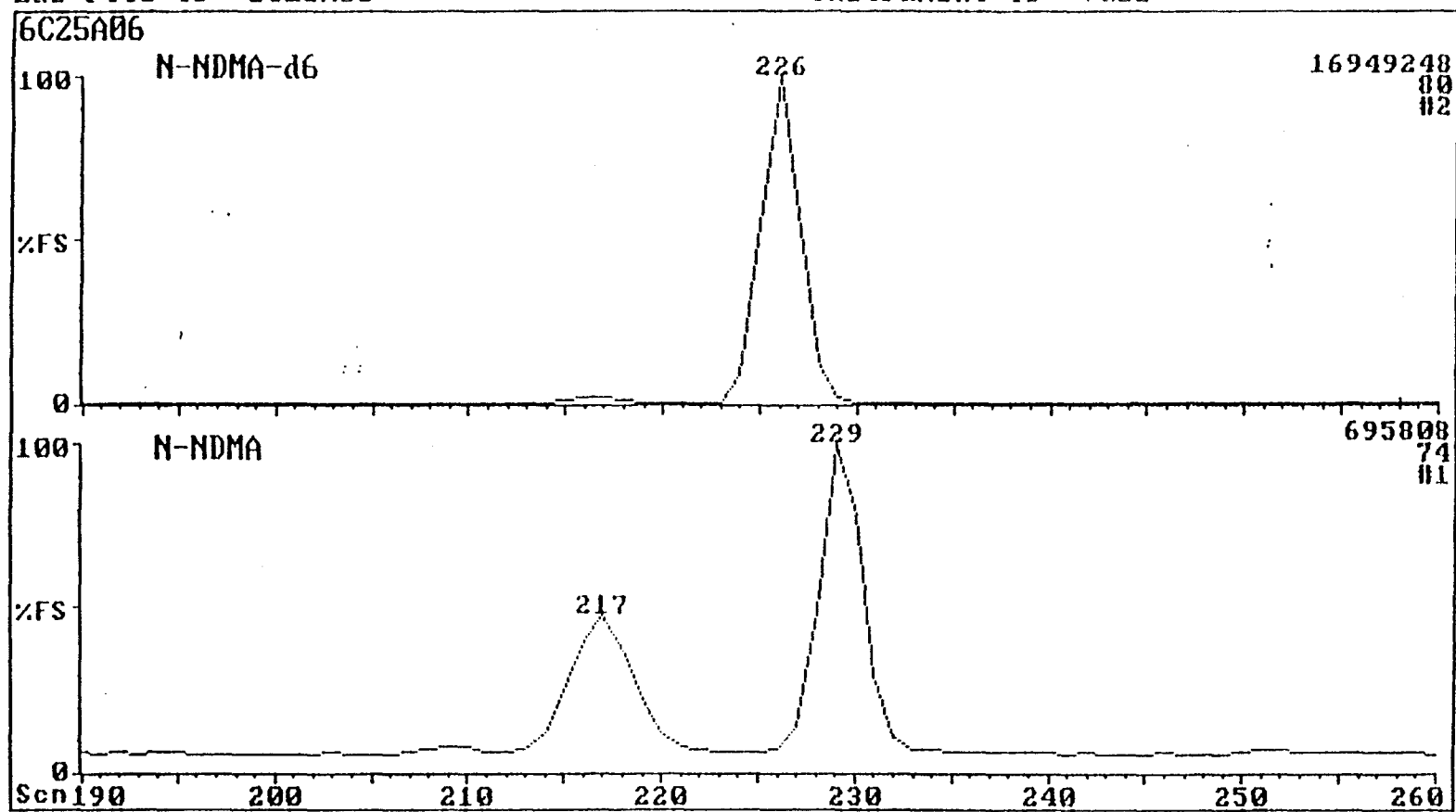
Sample No.: 0.05 PPM STD
Lab File ID: 6C25A06

Analyzed: 03/25/99 1646
Instrument ID: VG06



Sample No.: 0.05 PPM STD
Lab File ID: 6C25A06

Analyzed: 03/25/99 1646
Instrument ID: VG06



Analyzed: 03/25/99 1728
Instrument ID: 06

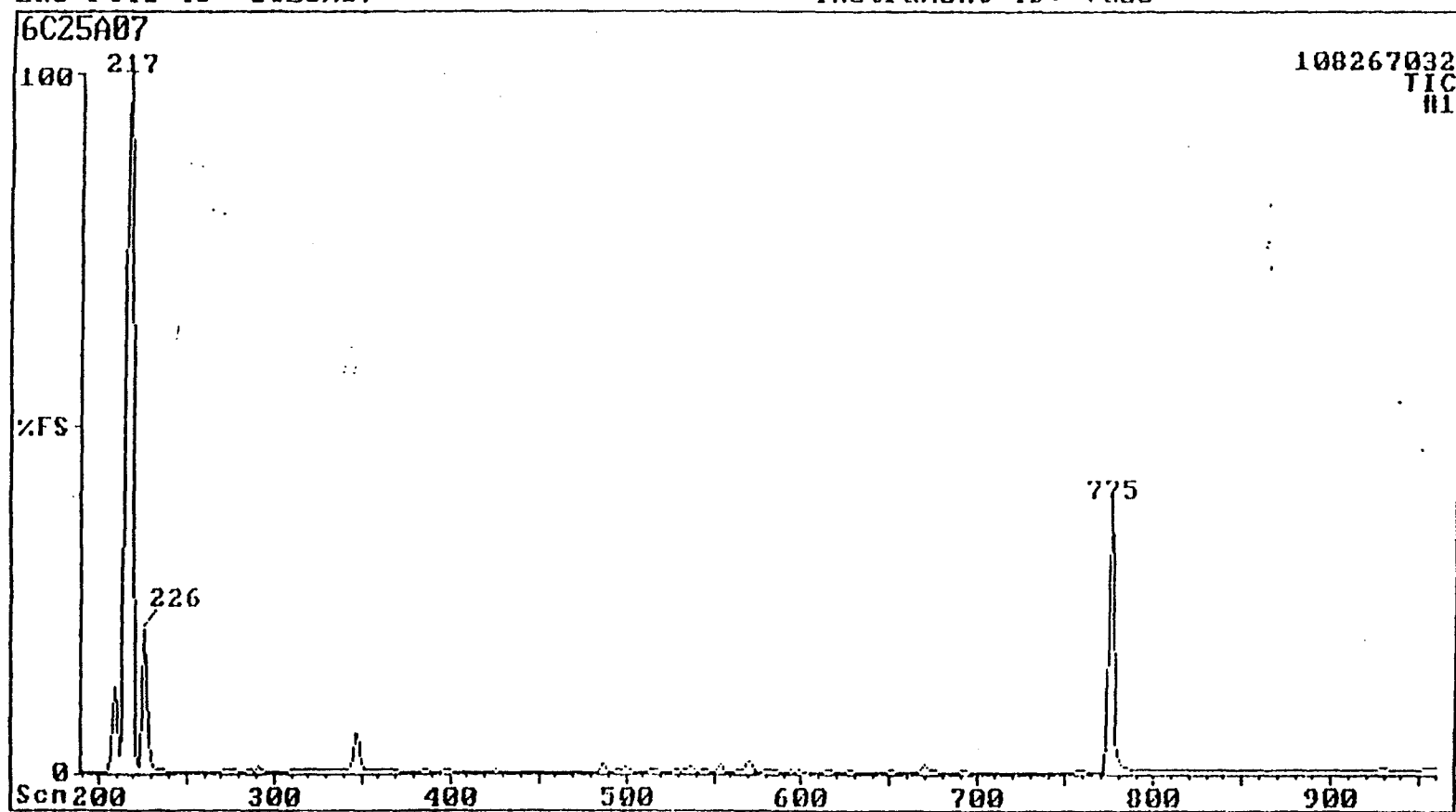
03/26/99 0735

Quan DB : 6C25A07
Scan DB : NONE

No.	MAT	FOR	REV	Diff	Spectrum Scan	Peak Area	Flags	Found	Scan	Fred	GM	Compound Name
1	100	90	100	1	119506948	b?	775	774	190	2,2'-Difluorobiphenyl		
2	100	95	99	0	34497449	b?	226	226	80	N-Nitrosodimethylamine-d6		
3	100	77	95	-1	2860496	b?	229	230	74	N-Nitrosodimethylamine		

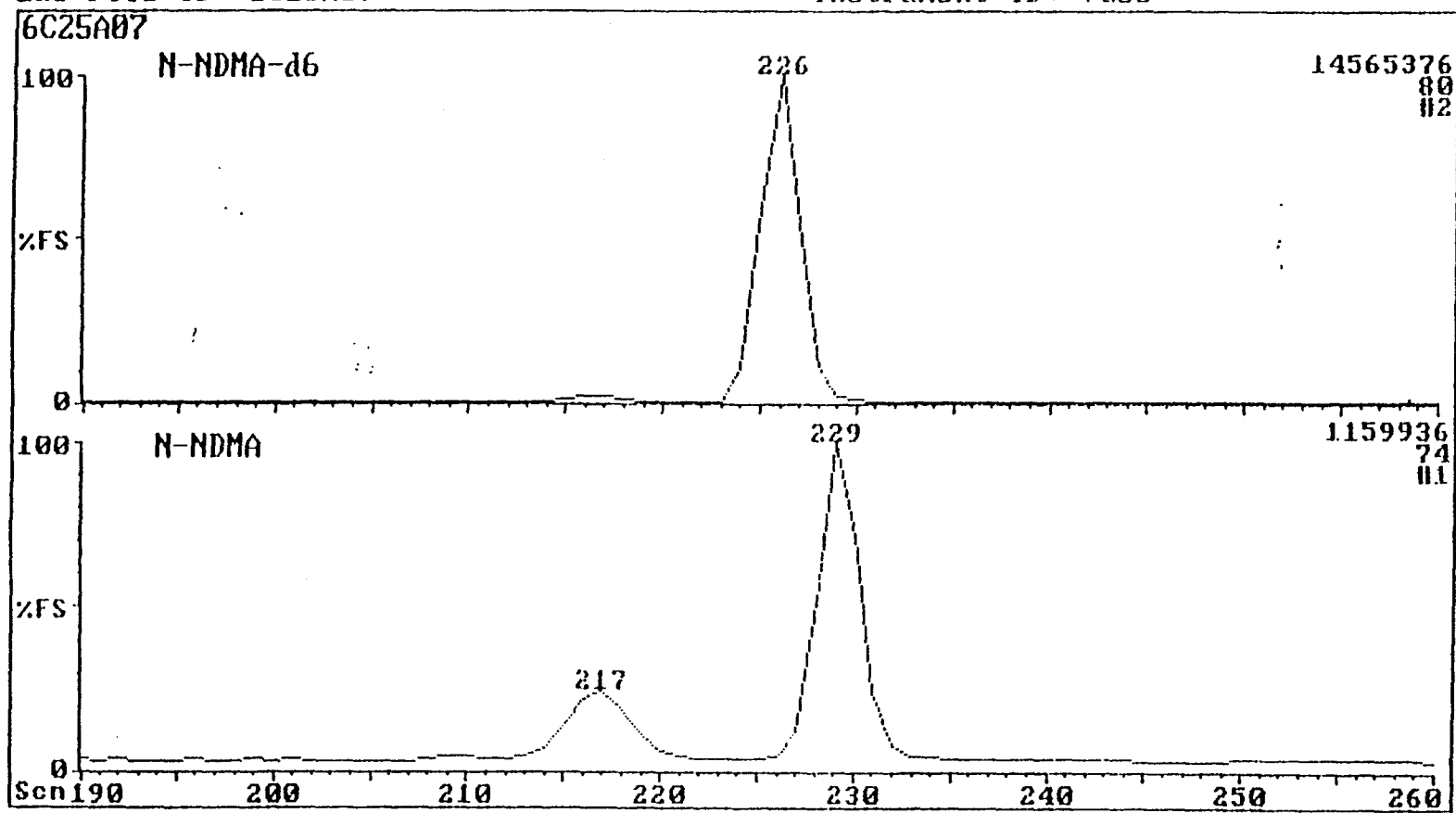
Sample No.: 0.10 PPM STD
Lab File ID: 6C25A07

Analyzed: 03/25/99 1728
Instrument ID: VG06



Sample No.: 0.10 PPM STD
Lab File ID: 6C25A07

Analyzed: 03/25/99 1728
Instrument ID: VG06



Sample: 0.50 PPM STD
Lab File: 6C25A08

NSTD0.50

Analyzed: 03/25/99 1810
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0736

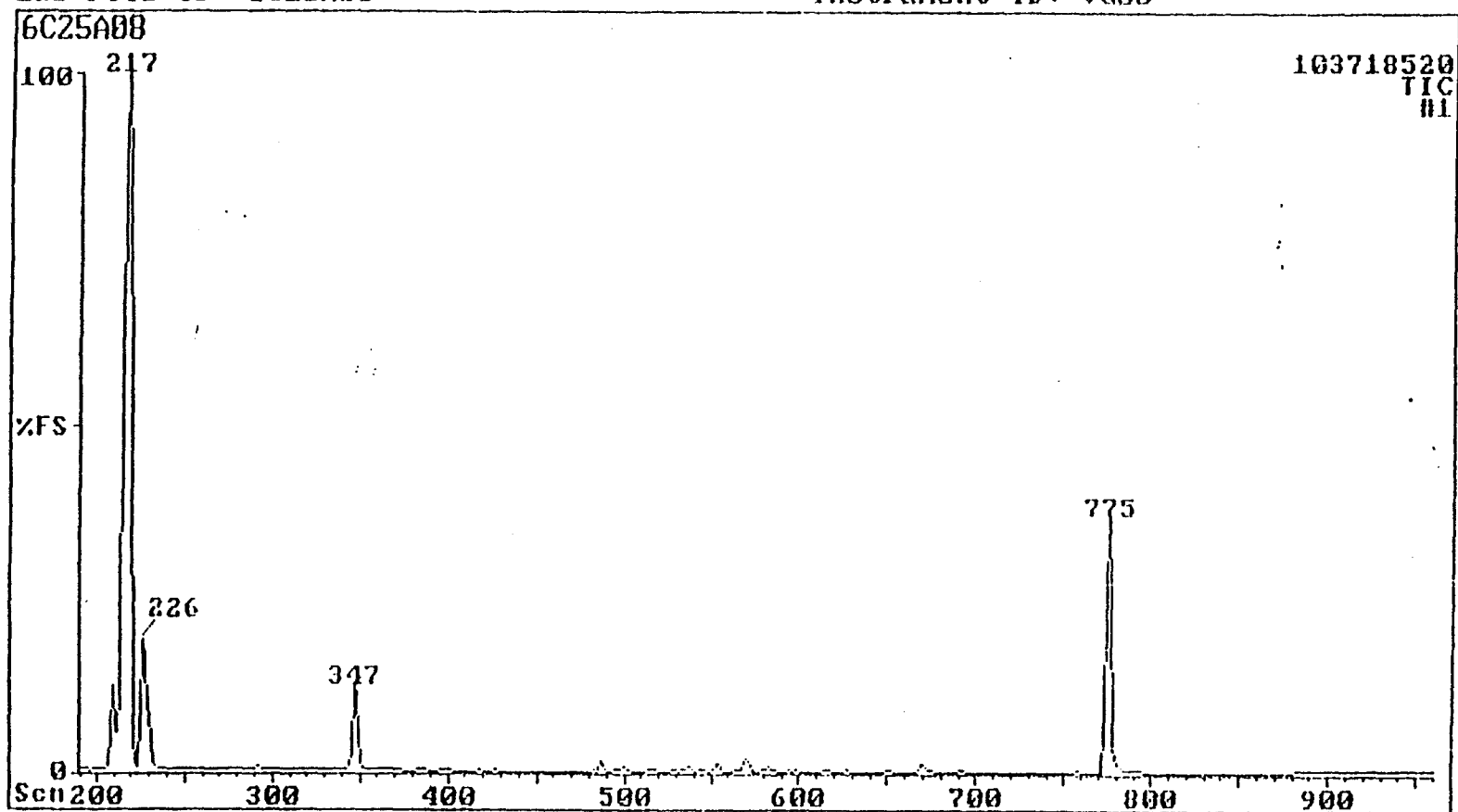
Raw Datafile : 6C25A08
Find DB : NNDMA

Quan DB : 6C25A08
Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		GM Compound Name	
	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred		
1	100	90	100	1	105040581	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	95	100	0	30969823	b?	226	226	80	N-Nitrosodimethylamine-d6
3	100	91	99	-1	12998048	b?	229	230	74	N-Nitrosodimethylamine

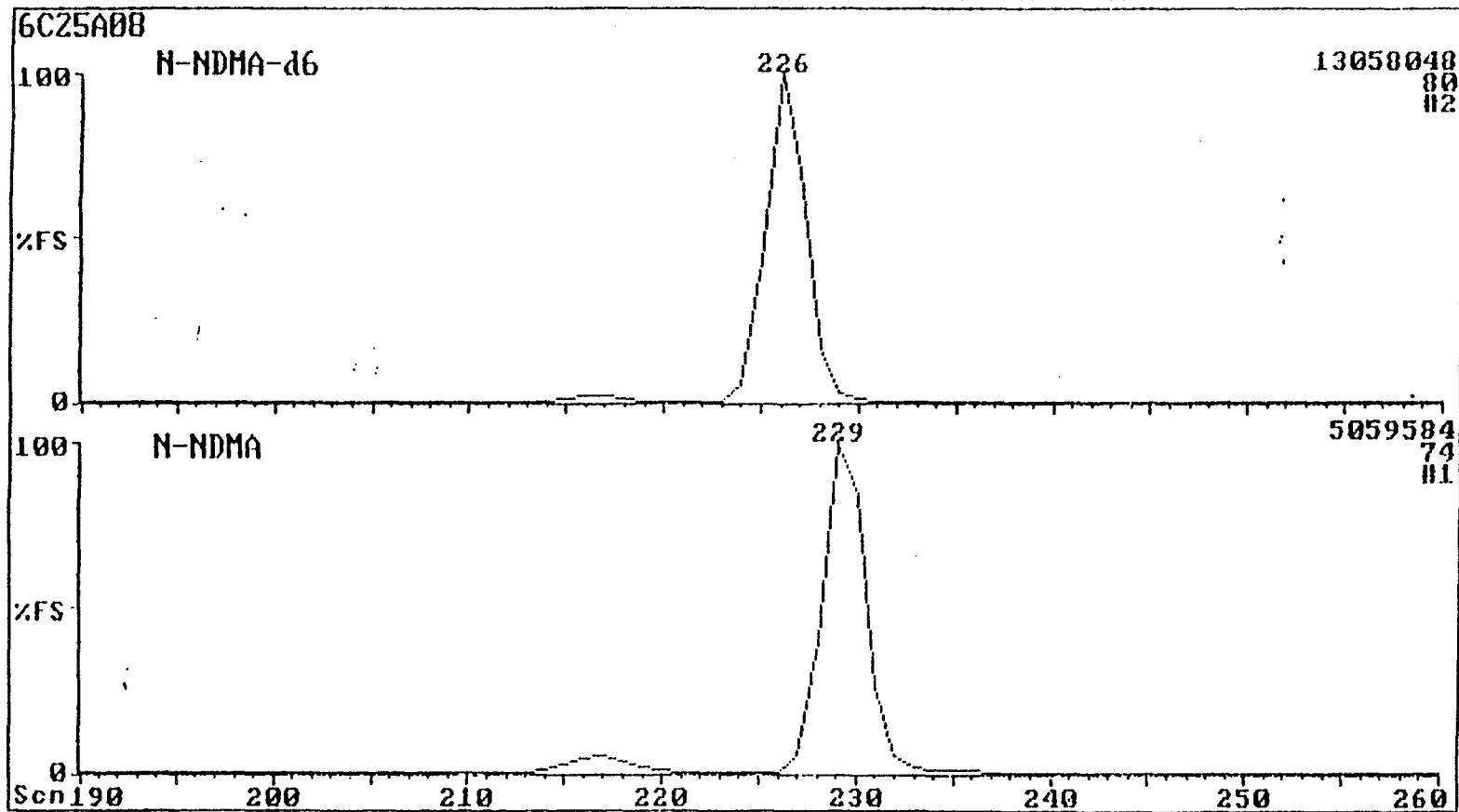
Sample No.: 0.50 PPM STD
Lab File ID: 6C25A008

Analyzed: 03/25/99 1810
Instrument ID: VG06



Sample No.: 0.50 PPM STD
Lab File ID: 6C25A00

Analyzed: 03/25/99 1810
Instrument ID: VG06



Analyzed: 03/25/99 1852
Instrument ID: 06

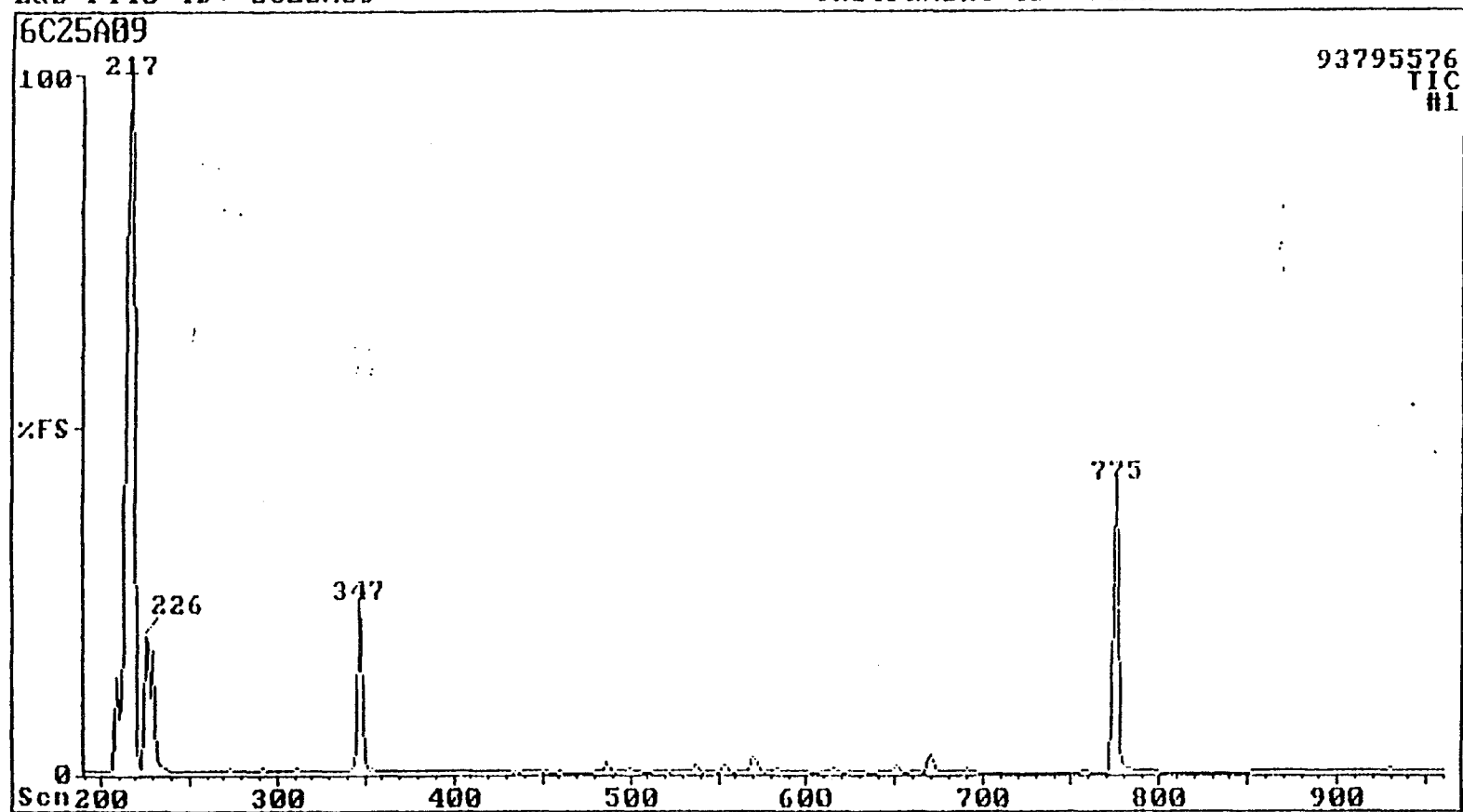
03/26/99 0737

Quan DB : 6C25A09
Scan DB : NONE

No.	Spectrum Scan				Peak	Scan				
	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred	GM	Compound Name
1	100	90	100	1	107364121	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	95	100	0	30106551	b?	226	226	80	N-Nitrosodimethylamine-d6
3	100	95	99	-1	25386272	b?	229	230	74	N-Nitrosodimethylamine

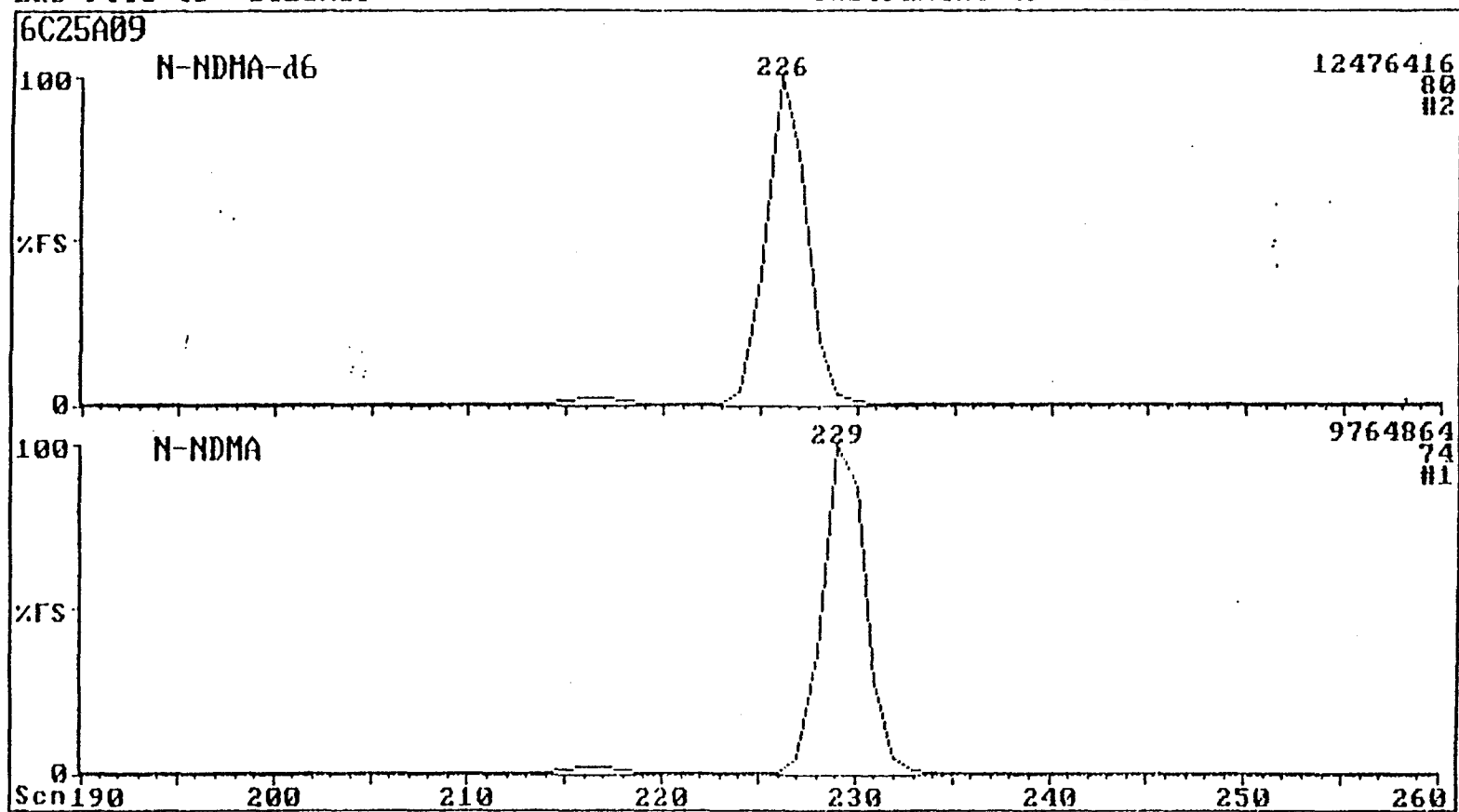
Sample No.: 1.00 PPM STD
Lab File ID: 6C25A09

Analyzed: 03/25/99 1052
Instrument ID: VG06



Sample No.: 1.00 PPM STD
Lab File ID: 6C25A09

Analyzed: 03/25/99 1852
Instrument ID: VG06



ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

P&R D15

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: P&R D15
Lab File ID: 6C25A10
Date Sampled:
Date Extracted: 03/24/99
Date Analyzed: 03/25/99
Time Analyzed: 1933

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.06		87 %

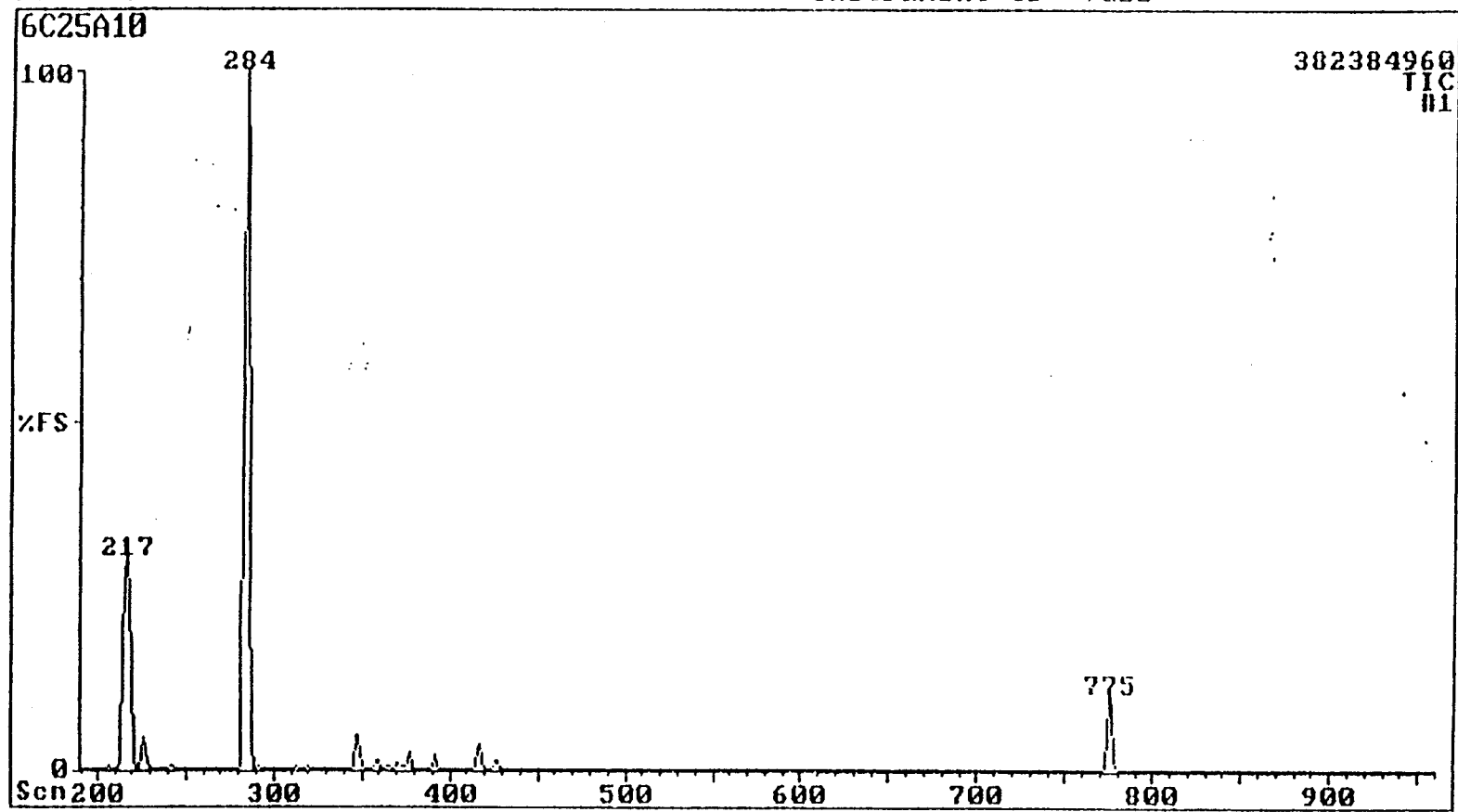
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

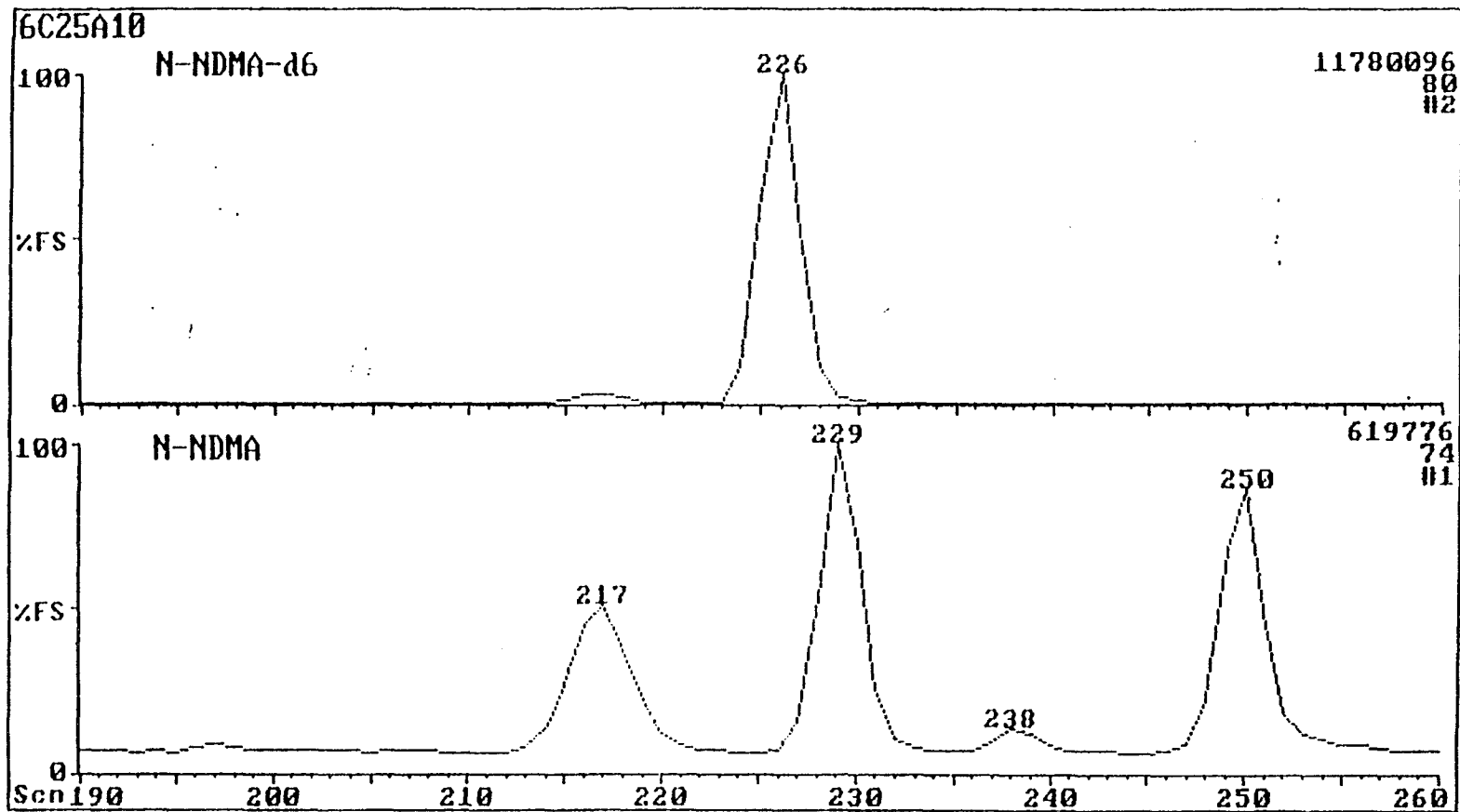
Sample No.: P&R D15
Lab File ID: 6C25A10

Analyzed: 03/25/99 1933
Instrument ID: VG06



Sample No.: P&R D15
Lab File ID: 6C25A10

Analyzed: 03/25/99 1933
Instrument ID: VG06



Sample: P&R D15
Lab File: 6C25A10

P&R D15

Analyzed: 03/25/99 1933
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0808

Raw Datafile : 6C25A10
Find DB : NNDMA

Quan DB : 6C25A10
Scan DB : NONE

No.	Spectrum Scan				Peak		Scan				QM Compound Name
	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred			
1	100	91	100	1	112646127	b?	775	774	190		2,2'-Difluorobiphenyl
2	100	94	99	0	28230000	b?	226	226	80		N-Nitrosodimethylamine-d6
3	100	69	97	-1	1471104	b?	229	230	74		N-Nitrosodimethylamine

On-going Accuracy (P&R) Check

=====

EPA Name: P&R D15	Lab ID: P&R D15	Lab File: 6C25A1
Instr: 06	ICAL: 6C25	Acquisition Date: 03/25/99 Acquisition Time: 1933

=====

Compound	Target Conc.	Rec.	Label Rec.	Limits
N-Nitrosodimethylamine	0.06	61.77	86.6	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

B9052

Lab Name: PACIFIC ANALYTICAL, INC.	Lab Sample ID: 9052
Matrix: WATER	Lab File ID: 6C25A12
Sample wt/vol: 1000 ml	Date Sampled:
Concentrated Extract Volume: 1000 ul	Date Extracted: 03/24/99
Injection Volume: 1 ul	Date Analyzed: 03/25/99
GPC Cleanup: N/A	Time Analyzed: 2057
Fraction: Combined	

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	88 %

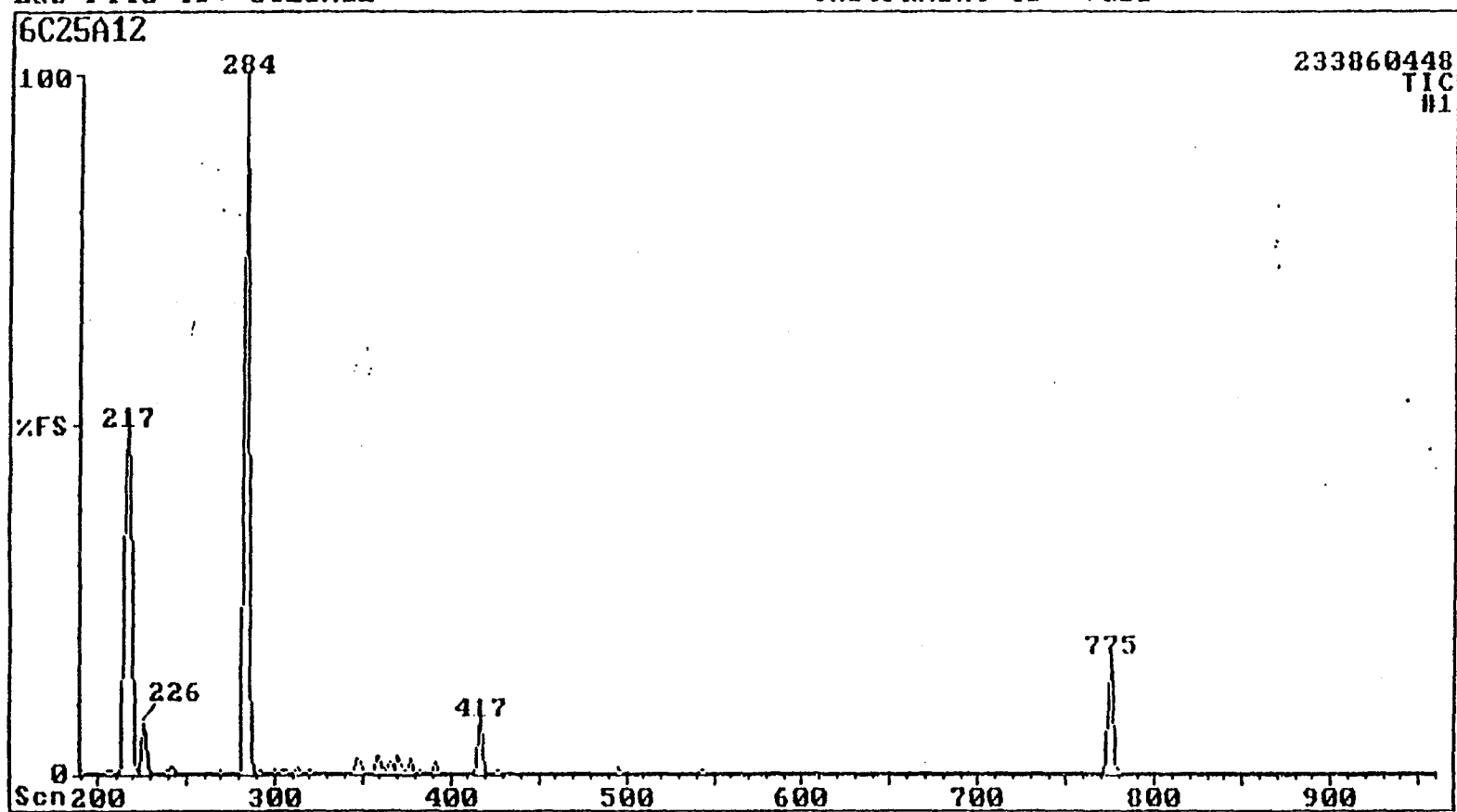
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

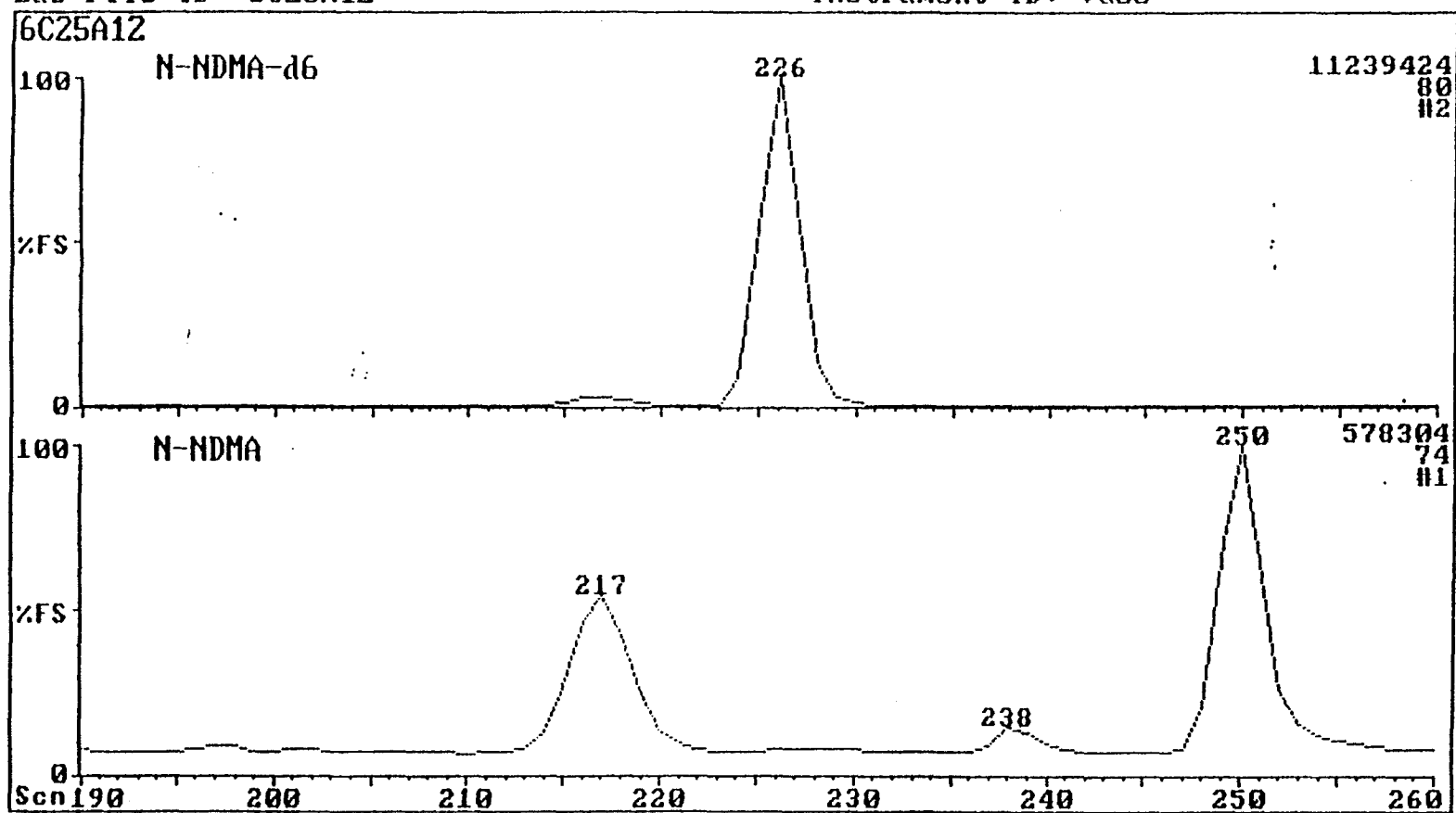
Sample No.: B9052
Lab File ID: 6C25A12

Analyzed: 03/25/99 2057
Instrument ID: VG06



Sample No.: B9052
Lab File ID: 6C25A12

Analyzed: 03/25/99 2057
Instrument ID: VG06



Sample: B9052
Lab File: 6C25A12

9052

Analyzed: 03/25/99 2057
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0810

Raw Datafile : 6C25A12
Find DB : NNDMA

Quan DB : 6C25A12
Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		QM Compound Name	
	MAT	FDR	REV	Diff	Area	Flgs	Found	Pred		
1	100	90	100	1	105356868	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	95	.99	0	26823649	b?	226	226	80	N-Nitrosodimethylamine-d6
3	70	32	80	-1	12704	!!	229	230	74	N-Nitrosodimethylamine
	47	20	98	2	107296	!!	238			

Quantitation Results

=====

EPA Name: B9052	Lab ID: 9052	Lab File: 6C25A
Instr: 06	ICAL: 6C25	Acquisition Date: 03/25/99 Acquisition Time: 2057

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	88.0	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

B9053

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: 9053
Lab File ID: 6025A13
Date Sampled:
Date Extracted: 03/24/99
Date Analyzed: 03/25/99
Time Analyzed: 2138

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	91 %

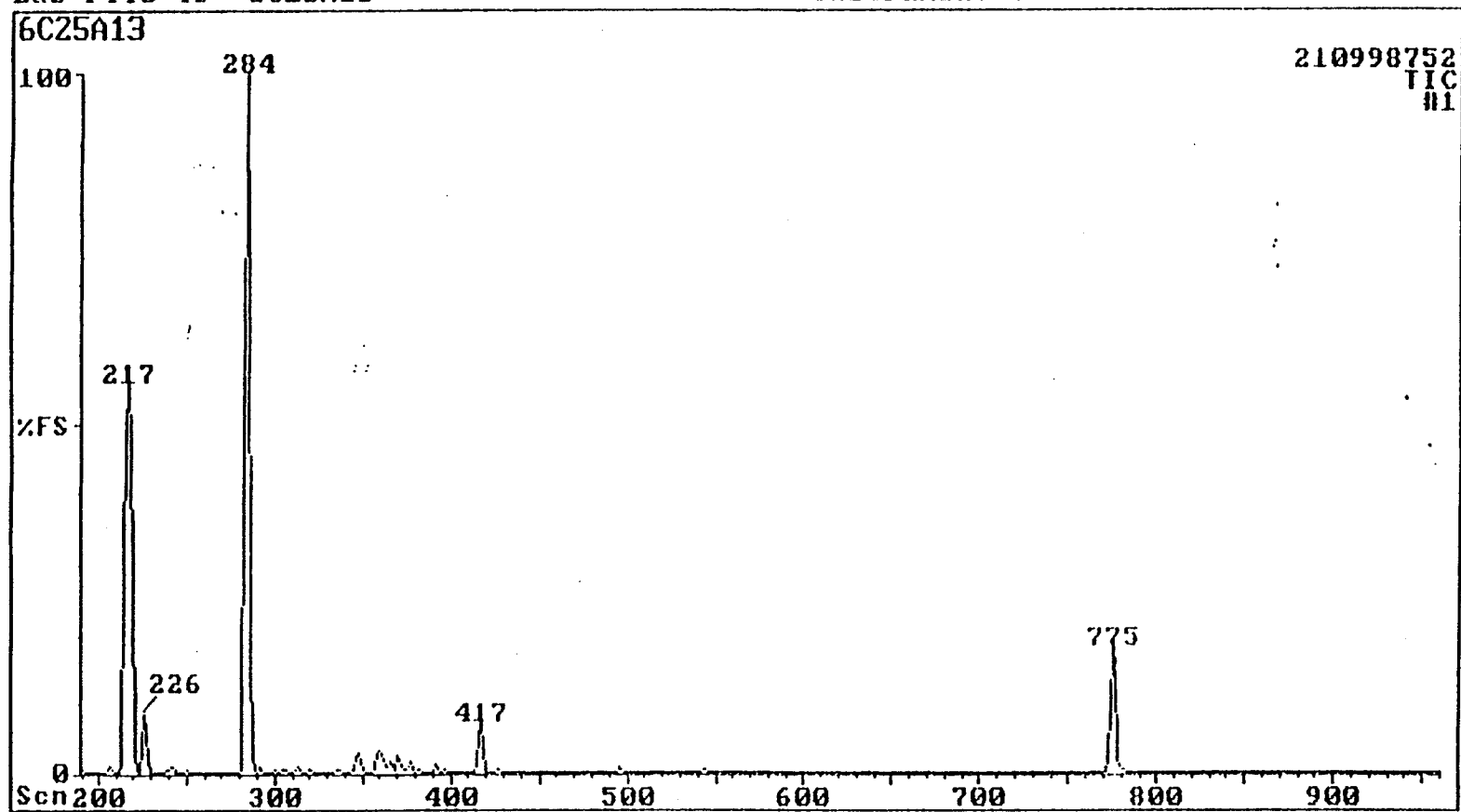
U = Undetected U = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

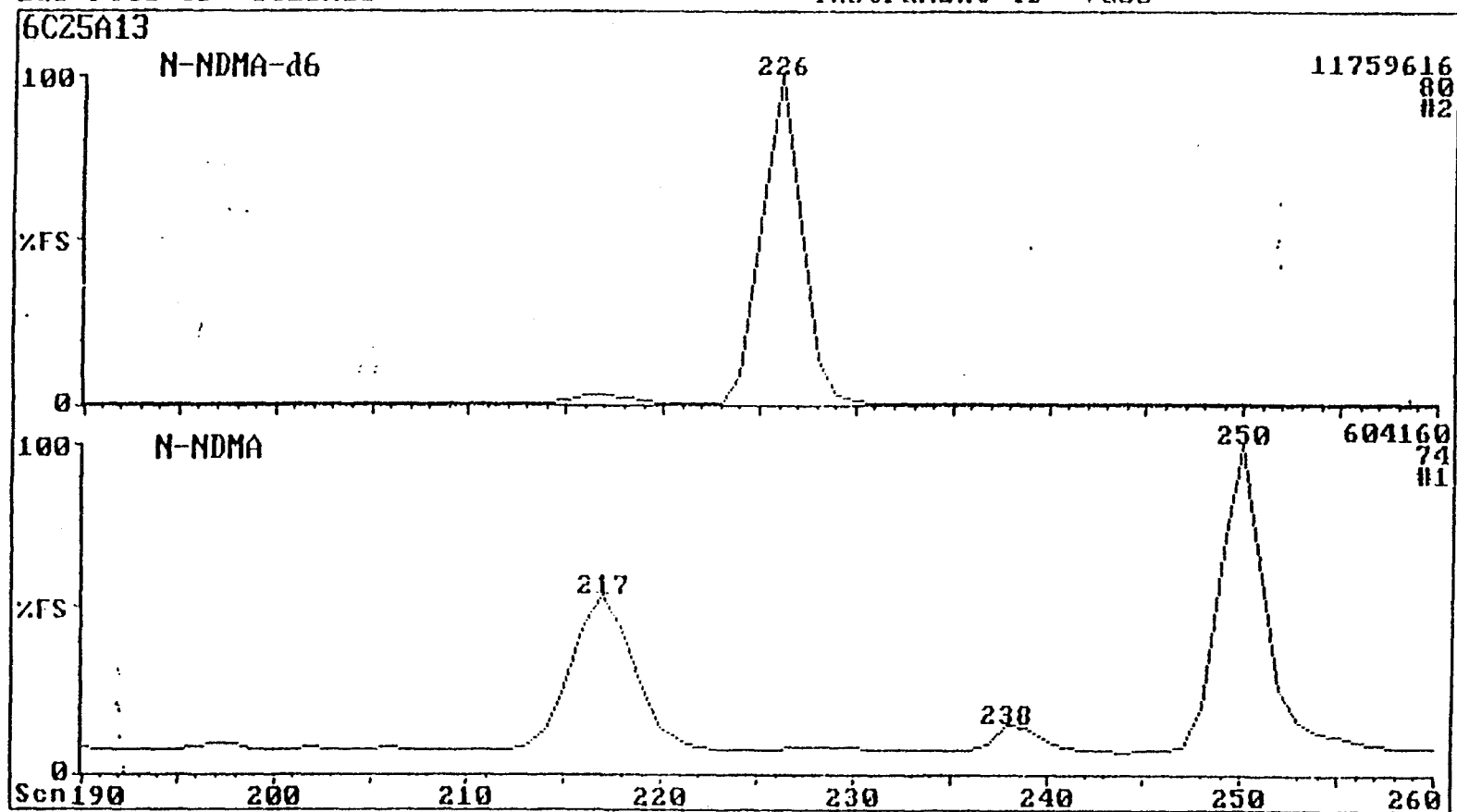
Sample No.: B9053
Lab File ID: 6C25A13

Analyzed: 03/25/99 2138
Instrument ID: VG06



Sample No.: B9053
Lab File ID: 6C25A13

Analyzed: 03/25/99 2138
Instrument ID: VG06



Sample: B9053
Lab File: 6C25A13

9053

Analyzed: 03/25/99 2138
Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	081:
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=====

Raw Datafile : 6C25A13
Find DB : NNDMA

Quan DB : 6C25A13
Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		QM Compound Name	
	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred		
1	100	90	100	1	106390168	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	95	99	0	27980591	b?	226	226	80	N-Nitrosodimethylamine-d6
3	69	36	79	0	17237	!!	230	230	74	N-Nitrosodimethylamine
	47	20	89	8	129840	b?	238			

Quantitation Results

=====

EPA Name: B9053	Lab ID: 9053	Lab File: 6C25A:
Instr: 06	ICAL: 6C25	Acquisition Date: 03/25/99 Acquisition Time: 2138

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	90.9	25 - 175

GC/MS SEMI-VOLATILES RUN LOG

Instrument: V606

Page: 362

Cal File: 6C25

Date: 3/25/99

Notes: P 74, P82, P80, P81 NNDMA
 Tune Par: SIR=5.0, SEC=109, SF1=14, SF3=210, QL=6.0, QR=10.9, DM=700
 SEE=70, SF2=21.0, SF4=21, QTE=1.5, QTR=1.0
 GC Par: 40002.5min, 15%/min to 280 Hold 15min

Taped	Sample ID	File Name	OK	Description	OP
		6C25A01		Warm-up	CB
		02			
		03			
		04			
	NSSTD0.02	05		0.02 μ g/ml NNDMA + Dioxan + ICHL	
	NSSTD0.05	06		0.05	
	NSSTD0.10	07		0.10	
	NSSTD0.50	08		0.50	
	NSSTD1.00	09		1.00	
	R&R D15	10			
	P&R D5dup	11			
	9052	12			
	9053	13			
	P8201	14			
	P7401	15			
	P7402	16			
	P8001	17			
	P8002	18			
	P8003	19			
	P8004	20			
	P8101	21			
	P8102	22			
	NSSTD0.10	23		0.10 μ g/ml NNDMA Daily	
	P8103	24			
	P8104	25			

06/21/93

Reviewed by: _____ on: _____

GC/MS SEMI-VOLATILES
RUN LOG

Instrument: V606

Page: 363

Cal File: 6C25

Date: 3/25/99

Notes: Same as Page 362

[illegible]

PACIFIC ANALYTICAL, INC.

*** SAMPLE RECEIPT LOG ***

PA JOB NUMBER: 1580
(Sample Tracking Information)

JOB _____ TASK _____
(Invoice Informatic

CUSTOMER: MONTGOMERY WATSON

RECEIVED BY: JTJ

REVISION DATE: 03/24/99

REVISION TIME: 09:50

CHAIN OF CUSTODY RECEIVED: Y

SHIPPER: FEDEX

SHIPPER CODE: 4147-8266-46E

LAB SAMPLE NUMBER OF FIRST SAMPLE TO BE LOGGED IN: P80

[illegible]

COMMENTS: 1 MED. COOLER



Martha Frost Montgomery Watson Laboratories

555 East Walnut Street
Pasadena, CA 91101
Ph (626) 568-6400 Fax (626) 568-6324

Date 03/22/99

Submittal Form

DEB

52758

Ship To **Steve Parsons**
Pacific Analytical, Inc
6349 Paseo del Lago
Carlsbad, CA 92009

(760) 438-3100

Reporting: One report ... this MWL Project Number 52758

Do Not Combine Report with any other samples submitted under different MWL project numbers!

Report & Invoice must have the MWL Project Number and Sub PO#: 99-0352

Report all quality control data according to Method. Include dates analyzed, date extracted (if extracted) and Method reference on the report. Fax results to 626-568-6324. Faxed results must have complete data & QC. Hardcopy report is due in hand on due date. Please advise us immediately if Due Date will be missed.

If you have questions about these samples,
please call the MWL project manager

Debbie Frank

(626) 568-6449

MWL
Project # 52758

Report
Due: 4/1/99

For Prompt Payment, please mail Hardcopy Report & Invoice to attention of
Martha Frost Montgomery Watson Laboratories 555 East Walnut St Pasadena CA 91101
even if your arrangements were made with the MWL project manager.

Qty	Test Code	Use MWL	Client Sample ID for reference only	Analysis Requested	Sample Date	Matrix	Container
		Lab # for ID					
1	CUSTOMMS DMA	990318768	MW-991-038	N-Nitrosodimethylamine (N-NDMA)	03/18/99	aq	2 1L amber glass / no preservative

Relinquished by:

Sample Control 03/22/99

Montgomery Water

Client: SCWC, WBHWD

SEMI-VVA/BNA

Job # P74/P80/P81/P82

Extraction Date: 3/24/99

Extraction Method: 1625M (NNDMA)

Extraction Solvent: MeCl₂

Lot #: 89025 Initials: MD

Matrix: water

Fractions Extracted:

Other Reagents:

Lot #:

Surrogate Spike:

Matrix Spike:

Internal Standard:

BN fraction:

Add Fraction:

Label:	Date Made:	Concentration:	Volume added:	Date Spiked:	Initials:	Comments:
NNDMA label	8/13/98	20 ug/mL	50 µL	3/24/99	MD	
NNDMA wkq st.	2/13/98	1.0 ug/mL	100 µL	3/24/99	MD	
NNDMA IS	10/12/98	100 µg/mL	10 µL	3/25/99	den	

Sample #:	Sample Size: Extracted:	% Moisture Solids:	pH First Extraction:	Initial Extract Volume: A	Aliquot Removed for Prep: B	Volume After Prep: C	Calculated Final Volume: A/B x C =	pH Second Extraction:	Initial Extract Volume: A	Aliquot Removed for Prep: B	Volume After Prep: C	Calculated Final Volume: A/B x C =	Comments: (Cleanup methods applied and info describing unusual sample behavior):
9052	1000 mL	N/A	7.1	1.0 mL	N/A	N/A	1.0 mL						
9053													
P1R015													
P1R015 dup													
P7401													
P7402													
P8001													
P8002													
P8003													
P8004													
P8101													
P8102													
P8103													
P8104													
P8105													
P8106													
P8107													
P8108													
P8201													

QA Review:



MONTGOMERY WATSON LABORATORIES

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street

Pasadena, California 91101

Tel: 626 568 6400 Fax: 626 568 6324

1 800 566 LABS (1 800 566 5227)

Laboratory Report

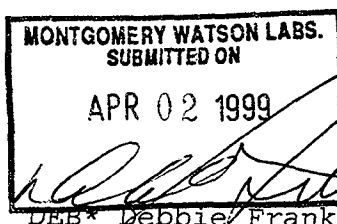
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714) 444-5560



Report#: 52758
JPL



MONTGOMERY WATSON LABORATORIES

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street

Pasadena, California 91101

Tel: 626 568 6400 Fax: 626 568 6324

1 800 566 LABS (1 800 566 5227)

Report
Comments
#52758

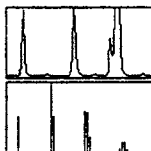
(990318768)

CUSTOMMS

Analytical results for CUSTOMMS N-NDMA were submitted by
Pacific Analytical, Inc. (PAI)

Semi-Volatiles DATA SUMMARY PACKAGE

CLIENT: MONTGOMERY WATSON
JOB #: P80 - MWL Project # 52758
DATE: MARCH 26, 1999



Pacific Analytical, Inc.
6349 Paseo Del Lago □ Carlsbad, CA 92009
(760) 438-3100

NARRATIVE REPORT
Method 1625C Semivolatiles

PA Reference: P80

03/26/99

Samples: MW-991-038

Semivolatiles analysis:

The samples were extracted and analyzed by Method 1625C, modified for the lowest possible detection limits. A 1000 mL aliquot was spiked with 1.0 ug of deuterated N-Nitrosodimethylamine-d6 and extracted with liquid-liquid extractors for 24 hours. The sample extract was concentrated to a final volume of 1.0 mL and then spiked with 1.0 ug of 2,2'-Difluorobiphenyl as an internal recovery standard. The extract was analyzed by GC/MS with the mass spectrometer operating in the "Specific Ion Mode" for greater sensitivity and lower detection limits. The instrument was calibrated with five initial calibration standards ranging from 0.02 ug/mL to 1.00 ug/mL. A recent minimum detection limit study suggests that the instrument is capable of detecting N-Nitrosodimethylamine (NNDMA) at 0.005 ug/mL. However for reporting purposes, our detection limit is 0.03 ug/mL which translates to a sample concentration of 0.03 ug/L.

On-Going Precision and Recovery

A laboratory blank (P&R) was spiked with 0.10 ug of NNDMA and its labeled analog, and extracted and analyzed like a sample for each analytical batch. Recoveries for NNDMA and its label were within method specified recovery limits.

Blank

A laboratory blank was extracted and analyzed like the sample with each extraction batch. NNDMA was not detected at or above our report limit of 0.03 ug/L.

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

MW-991-038

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: P8001
Lab File ID: 6C25A17
Date Sampled: 03/19/99
Date Extracted: 03/24/99
Date Analyzed: 03/26/99
Time Analyzed: 0025

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	72 %

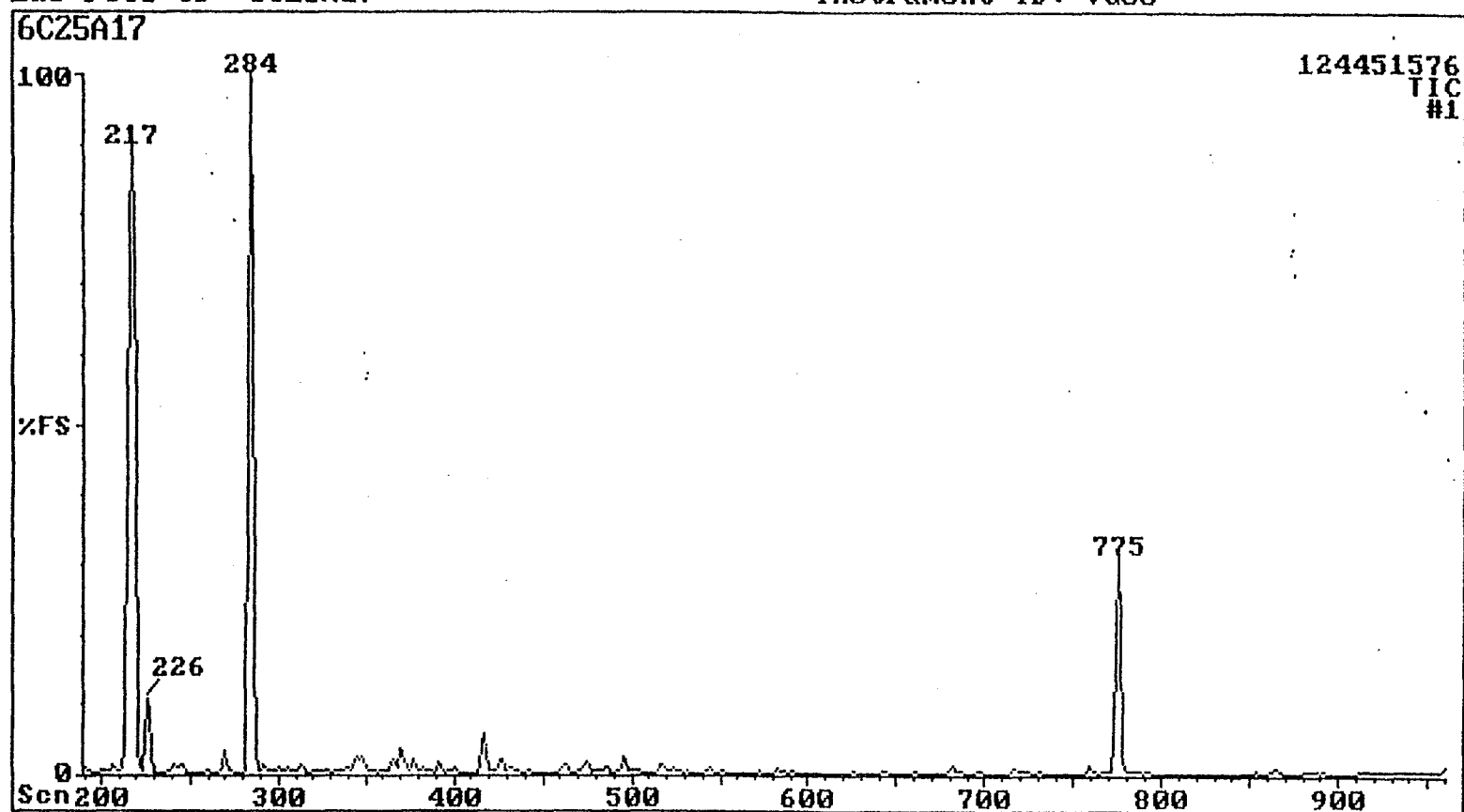
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

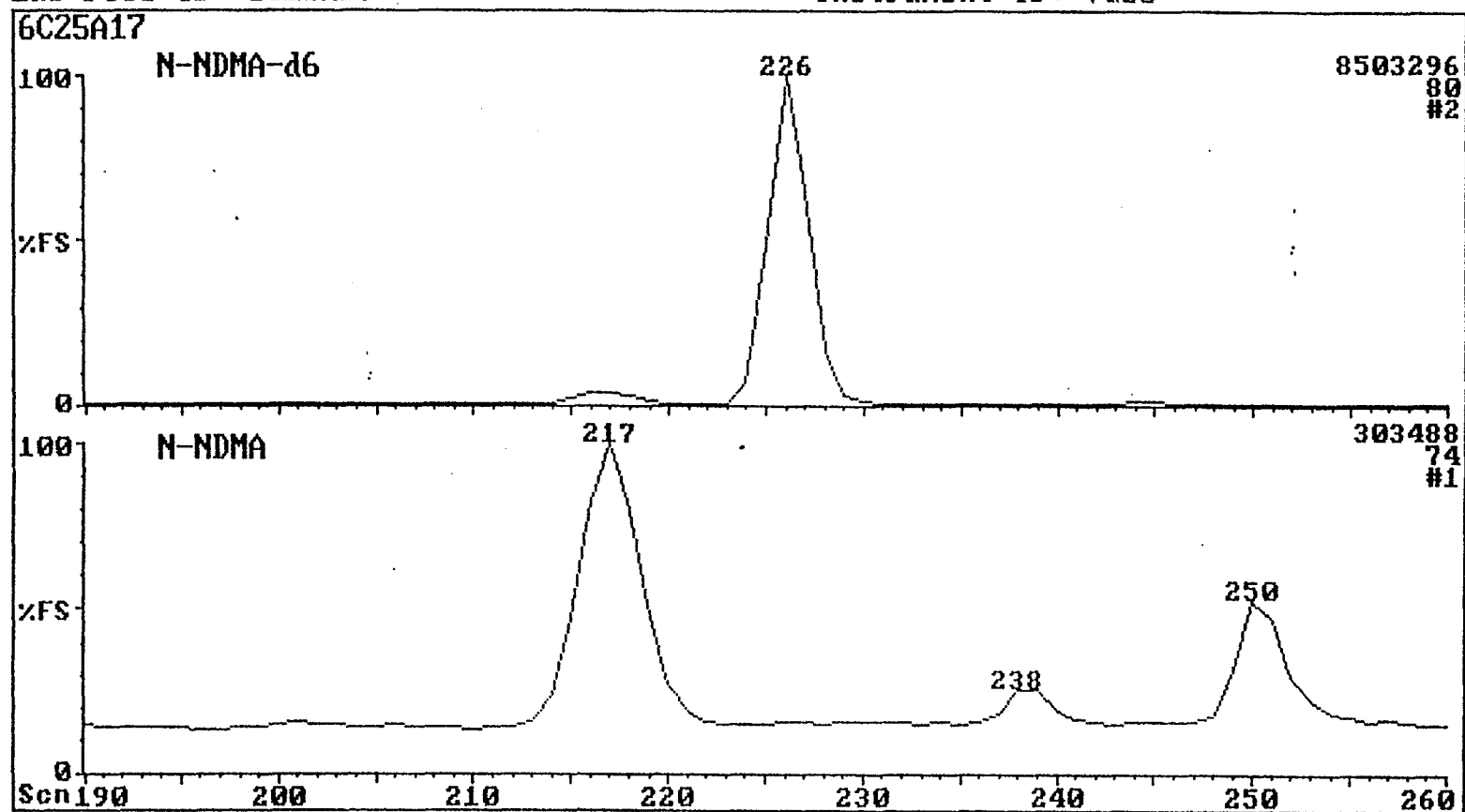
Sample No.: MW-991-038
Lab File ID: 6C25A17

Analyzed: 03/26/99 0025
Instrument ID: VG06



Sample No.: MW-991-038
Lab File ID: 6C25A17

Analyzed: 03/26/99 0025
Instrument ID: VG06



Sample: MW-991-038
Lab File: 6C25A17

P8001

Analyzed: 03/26/99 0025
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0815

Raw Datafile : 6C25A17
Find DB : NNDMA

Quan DB : 6C25A17
Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		GM Compound Name	
	MAT	FDR	REV	Diff	Area	Flgs	Found	Pred		
1	100	90	100	1	97137960	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	94	99	0	20318432	b?	226	226	80	N-Nitrosodimethylamine-d6
3	69	39	76	0	6459	!!	230	230	74	N-Nitrosodimethylamine
	48	25	86	8	91168	!!	238			

Quantitation Results

=====

EPA Name: MW-991-038	Lab ID: P8001	Lab File: 6C25A17
Instr: 06	ICAL: 6C25	Acquisition Date: 03/26/99 Acquisition Time: 0025

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	72.3	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
LABELED COMPOUNDS

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG06

Calibration Date: 03/25/99

LAB FILE IDs:

RF 0.02 = 6025A05
RF 0.05 = 6025A06
RF 0.10 = 6025A07
RF 0.50 = 6025A09
RF 1.00 = 6025A07

COMPOUND	RF 0.02	RF 0.05	RF 0.10	RF 0.50	RF 1.00	RF MEAN	% RSD
2 N-Nitrosodimethylamine-	0.287	0.295	0.289	0.295	0.280	0.289	2.1

Internal Standard = 1 ug/mL

Pollutant Compounds = 0.02, 0.05, 0.10, 0.50, 1.00 ug/mL

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
COMPOUNDS HAVING A LABELED REFERENCE

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG06

Calibration Date: 03/25/99

LAB FILE IDs:

RF 0.02 = 6C25A05
RF 0.05 = 6C25A06
RF 0.10 = 6C25A07
RF 0.50 = 6C25A08
RF 1.00 = 6C25A09

COMPOUND	RR 0.02	RR 0.05	RR 0.10	RR 0.50	RR 1.00	SLOPE	INTCP
3 N-Nitrosodimethylamine	0.016	0.043	0.083	0.420	0.843	1.186	0.001

Internal Standard = 1 ug/mL

Pollutant Compounds = 0.02, 0.05, 0.10, 0.50, 1.00 ug/mL

Sample: 0.02 PPM STD
Lab File: 6C25A05

NSTD0.02

Analyzed: 03/25/99 1605
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0734

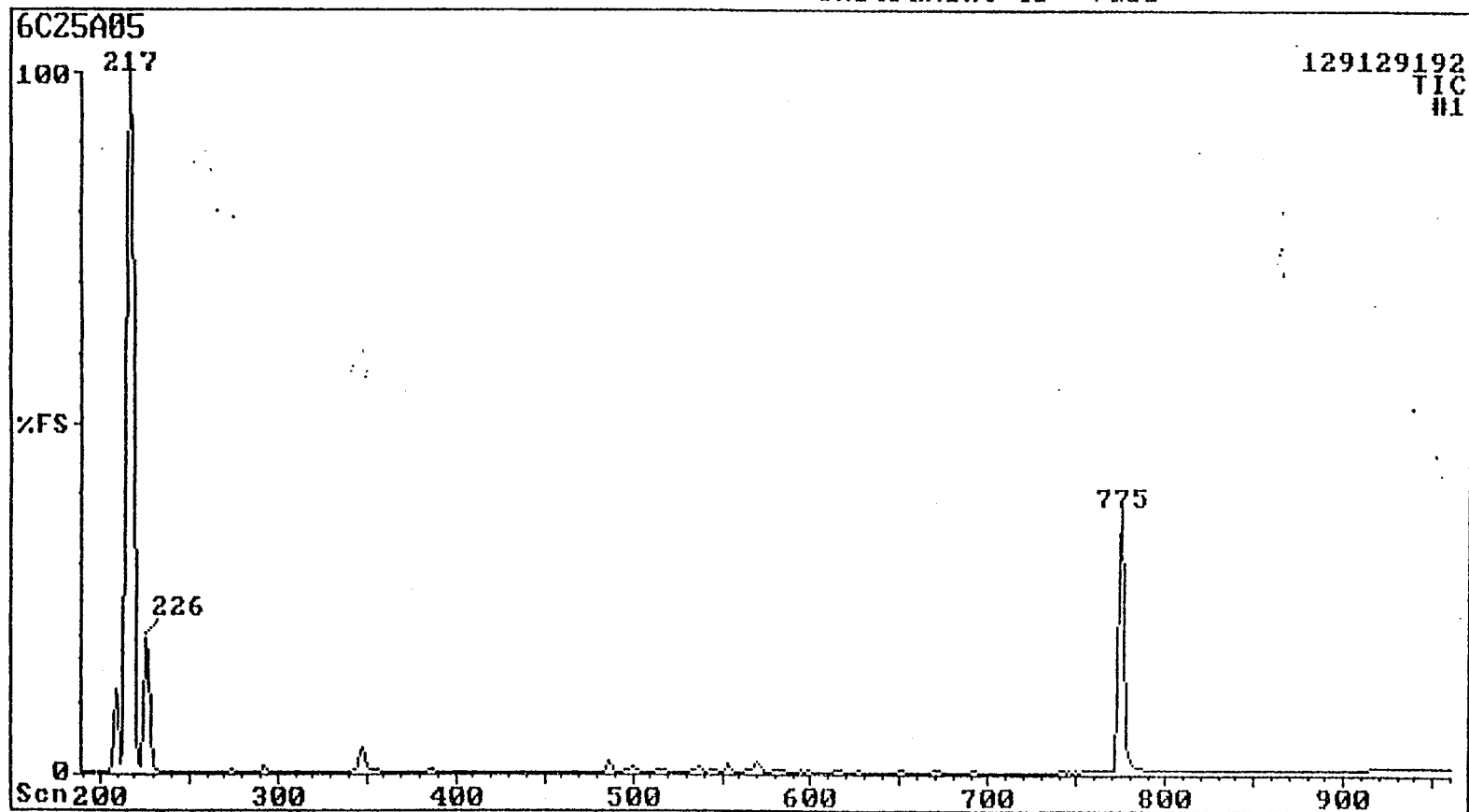
Raw Datafile : 6C25A05
Find DB : NNDMA

Quan DB : 6C25A05
Scan DB : NONE

No.	MAT	FDR	REV	Diff	Spectrum Scan	Peak	Area	Flgs	Found	Scan	Pred	QM	Compound Name
1	100	89	100	1	142039503	b?	775	774	190	2,2'-Difluorobiphenyl			
2	100	96	100	0	40828079	b?	226	226	80	N-Nitrosodimethylamine-d6			
3	94	59	92	-1	666664	bb	229	230	74	N-Nitrosodimethylamine			

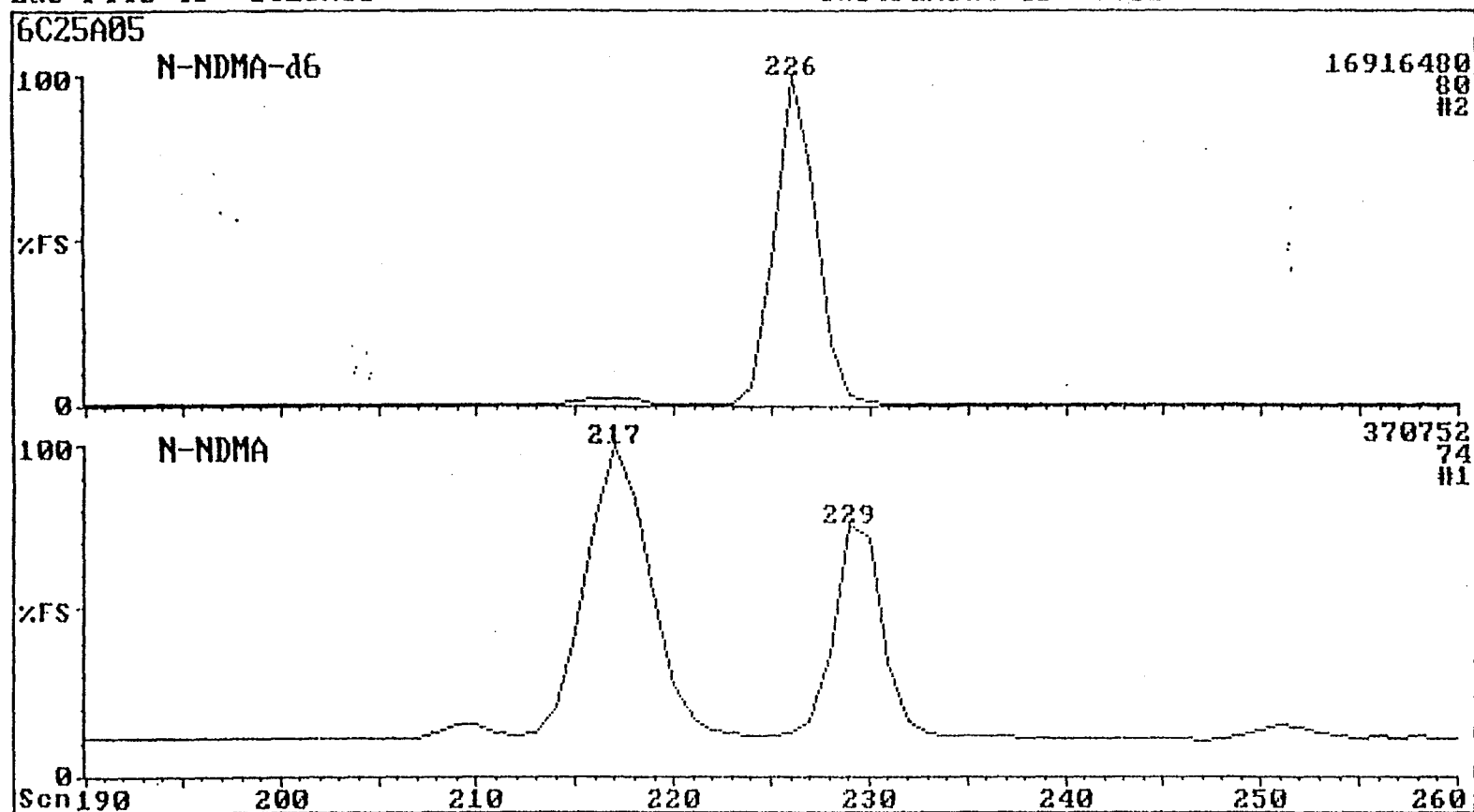
Sample No.: 0.02 PPM STD
Lab File ID: 6C25A05

Analyzed: 03/25/99 1605
Instrument ID: VG06



Sample No.: 0.02 PPM STD
Lab File ID: 6C25A05

Analyzed: 03/25/99 1605
Instrument ID: VG06



Sample: 0.05 PPM STD NSTD0.05 Analyzed: 03/25/99 1646
 Lab File: 6C25A06 Instrument ID: 06

=====

Interim Report LAB-BASE FIND 03/26/99 0734

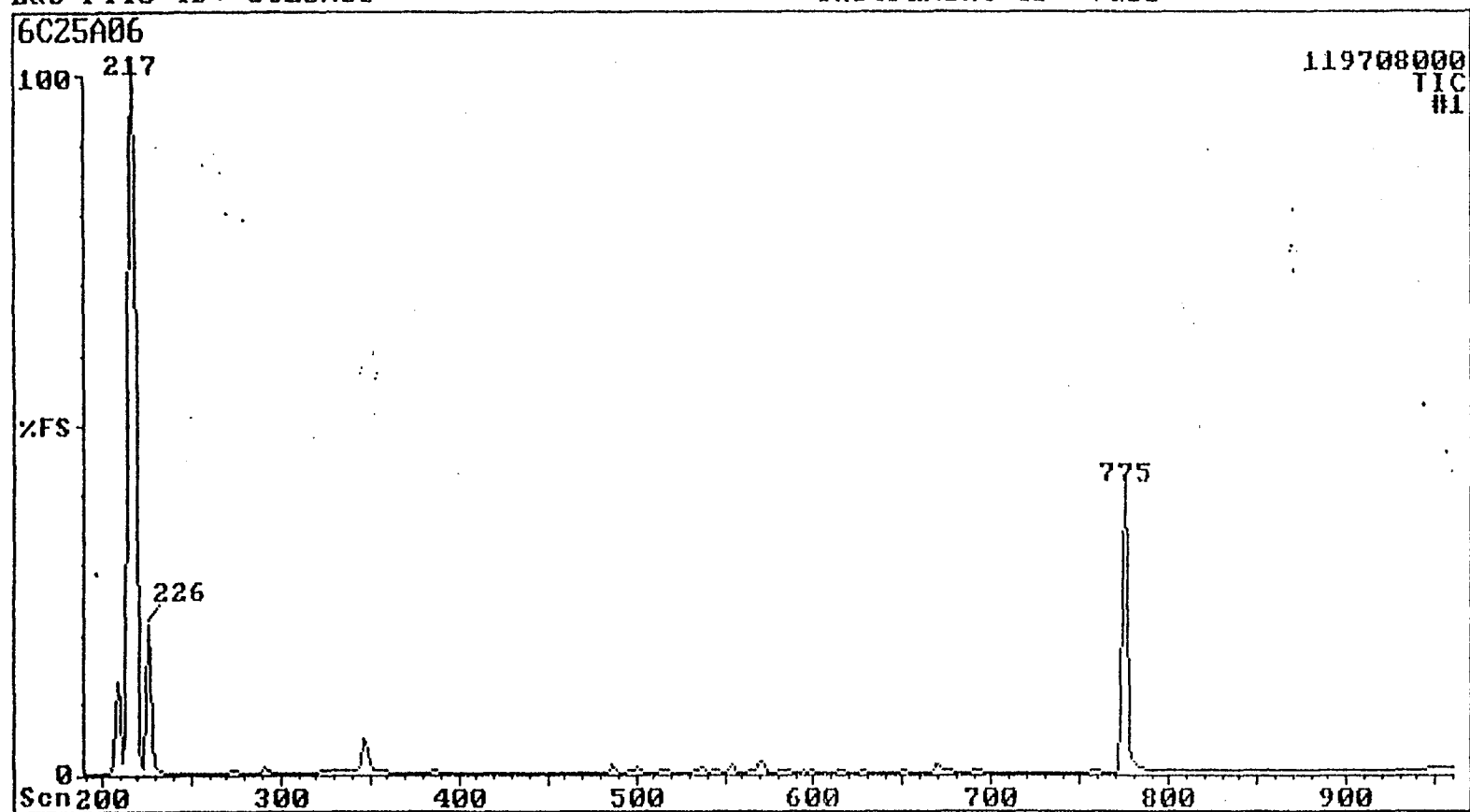
=====

Raw Datafile : 6C25A06 Guan DB : 6C25A06
 Find DB : NNDMA Scan DB : NONE

No.	Spectrum Scan				Peak	Scan		GM Compound Name	
	MAT	FDR	REV	Diff	Area Flgs	Found	Pred		
1	100	90	100	1	135675981	b?	775	774	190 2,2'-Difluorobiphenyl
2	100	96	99	0	40050321	b?	226	226	80 N-Nitrosodimethylamine-d6
3	97	64	97	-1	1707320	b?	229	230	74 N-Nitrosodimethylamine

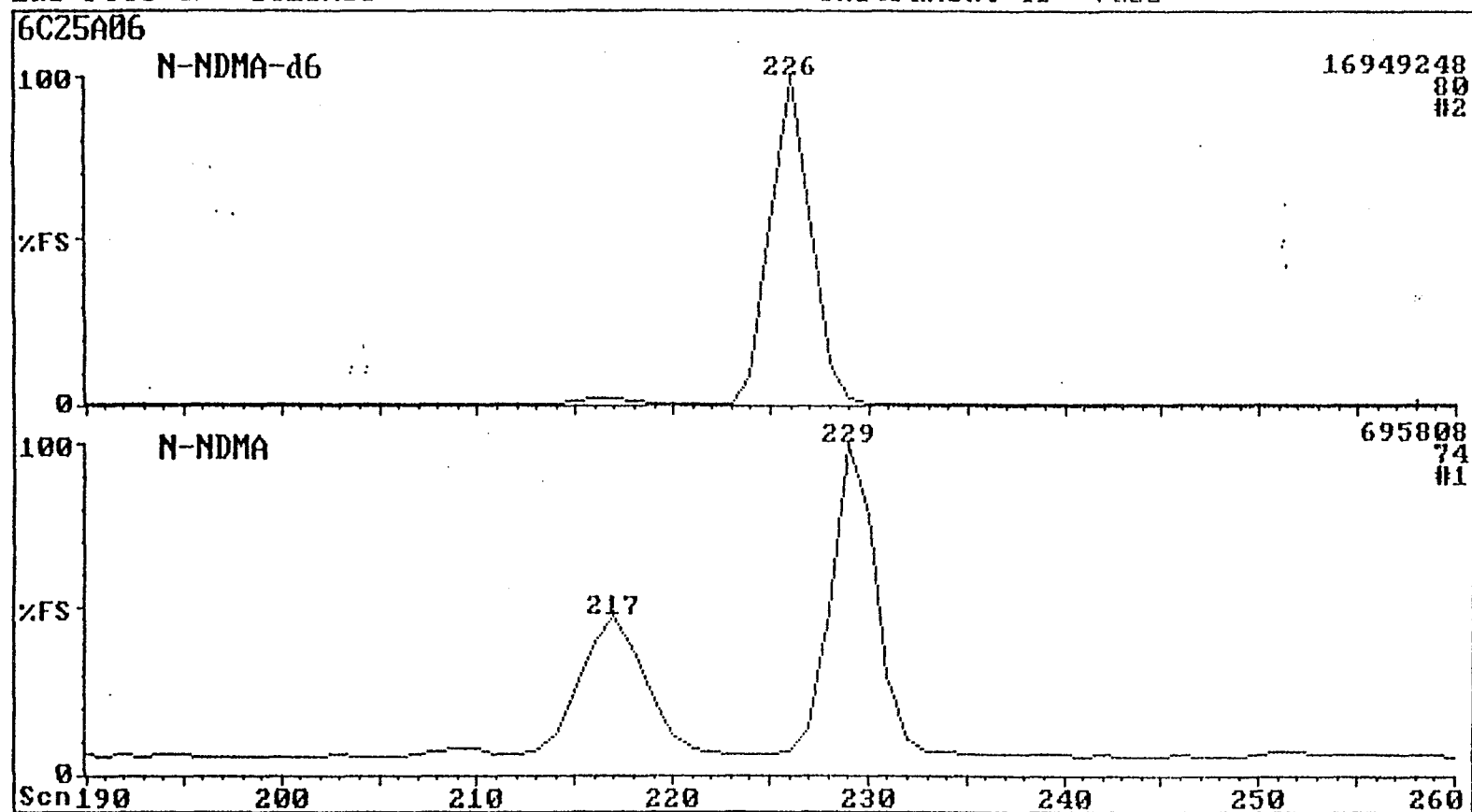
Sample No.: 0.05 PPM STD
Lab File ID: 6C25A06

Analyzed: 03/25/99 1646
Instrument ID: VG06



Sample No.: 0.05 PPM STD
Lab File ID: 6C25A06

Analyzed: 03/25/99 1646
Instrument ID: VG06



Sample: 0.10 PPM STD
Lab File: 6C25A07

NSTD0.10

Analyzed: 03/25/99 1728
Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	0735
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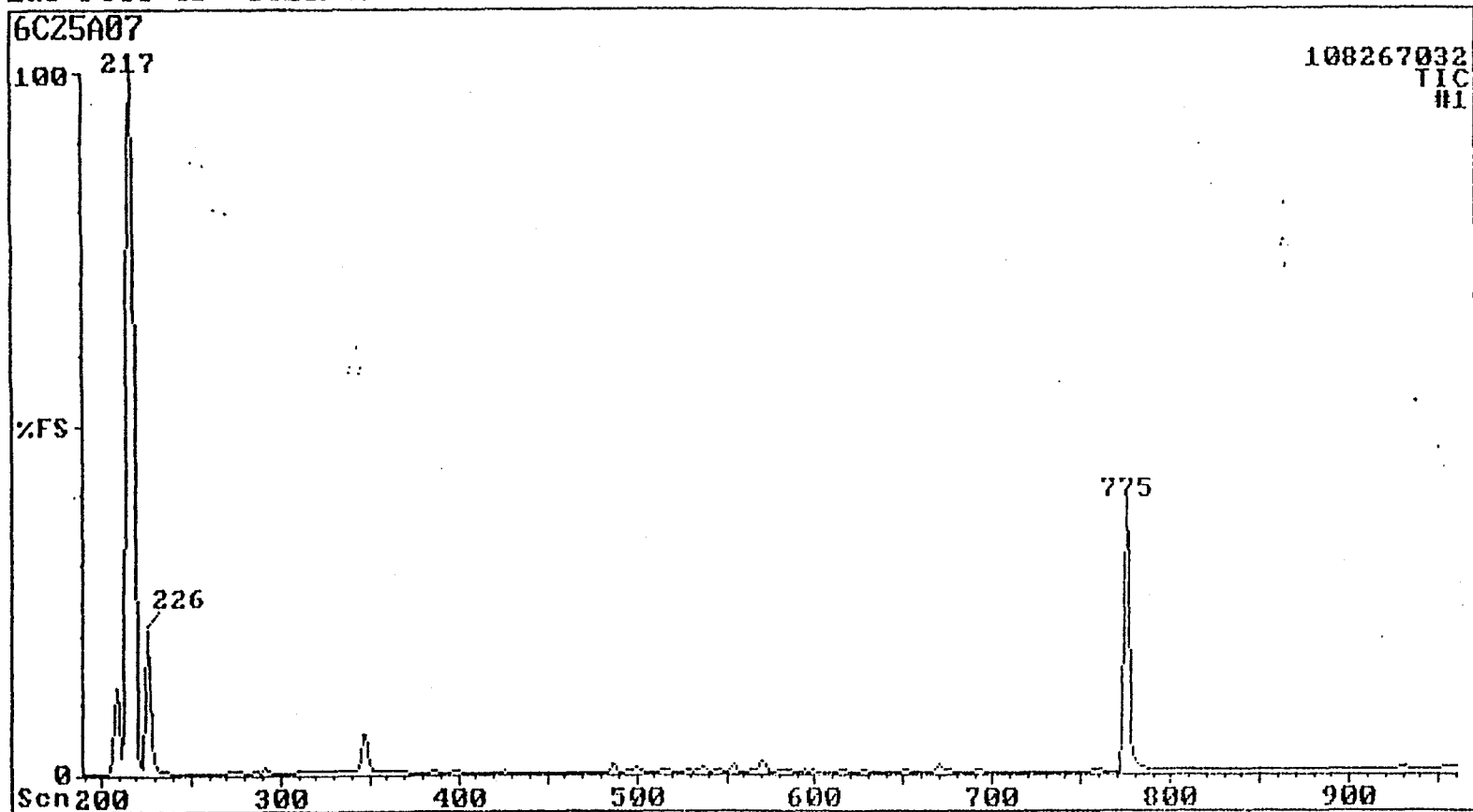
Raw Datafile : 6C25A07
Find DB : NNDMA

Quan DB : 6C25A07
Scan DB : NONE

No.	MAT	FOR	REV	Diff	Spectrum Scan	Peak	Scan	Area	Flgs.	Found	Pred	QM	Compound Name
1	100	90	100	1	119306948	b?	775	774	190	2,2'-Difluorobiphenyl			
2	100	95	99	0	34497449	b?	226	226	80	N-Nitrosodimethylamine-d6			
3	100	77	98	-1	2960496	b?	229	230	74	N-Nitrosodimethylamine			

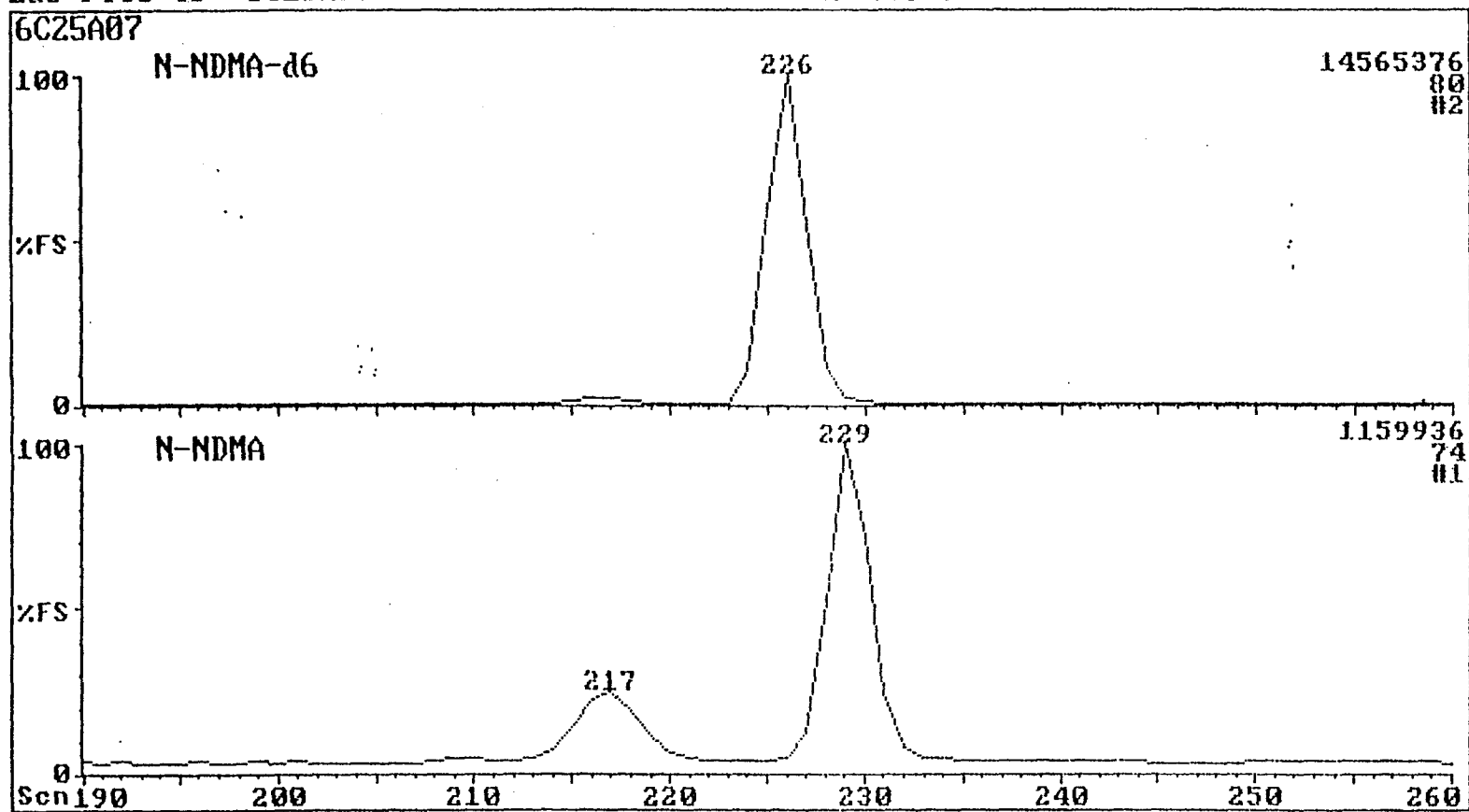
Sample No.: 0.10 PPM STD
Lab File ID: 6C25A07

Analyzed: 03/25/99 1728
Instrument ID: VG06



Sample No.: 0.10 PPM STD
Lab File ID: 6C25A07

Analyzed: 03/25/99 1728
Instrument ID: VG06



Sample: 0.50 PPM STD
Lab File: 6C25A08

NSTD0.50

Analyzed: 03/25/99 1810
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0736

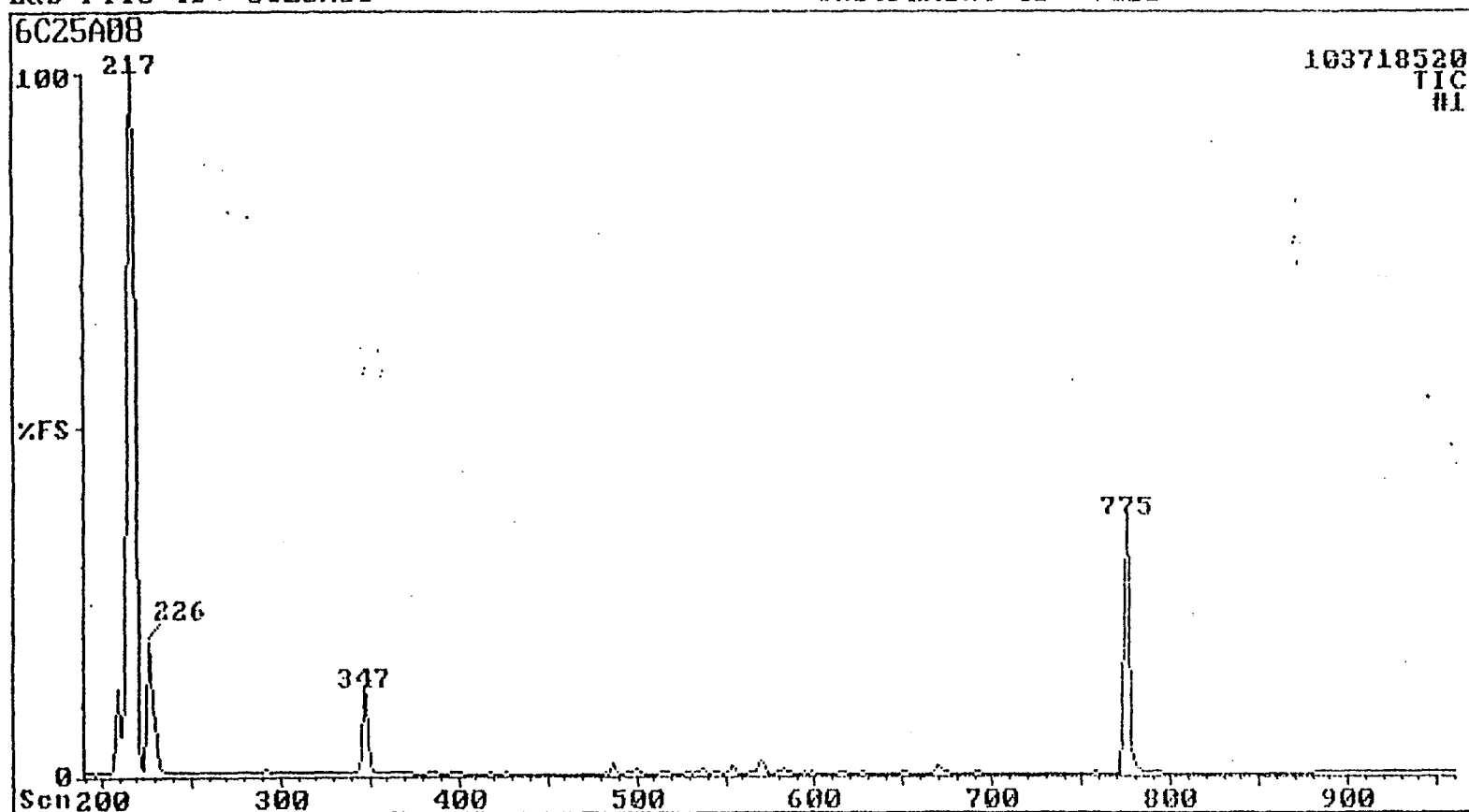
Raw Datafile : 6C25A08
Find DB : NNDMA

Quan DB : 6C25A08
Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		GM Compound Name		
	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred			
1	100	90	100	1	105040581	b?	775	774	190	2,2'-Difluorobiphenyl	
2	100	95	100	0	30949823	b?	226	226	80	N-Nitrosodimethylamine-d6	
3	100	91	99	-1	12998048	b?	229	230	74	N-Nitrosodimethylamine	

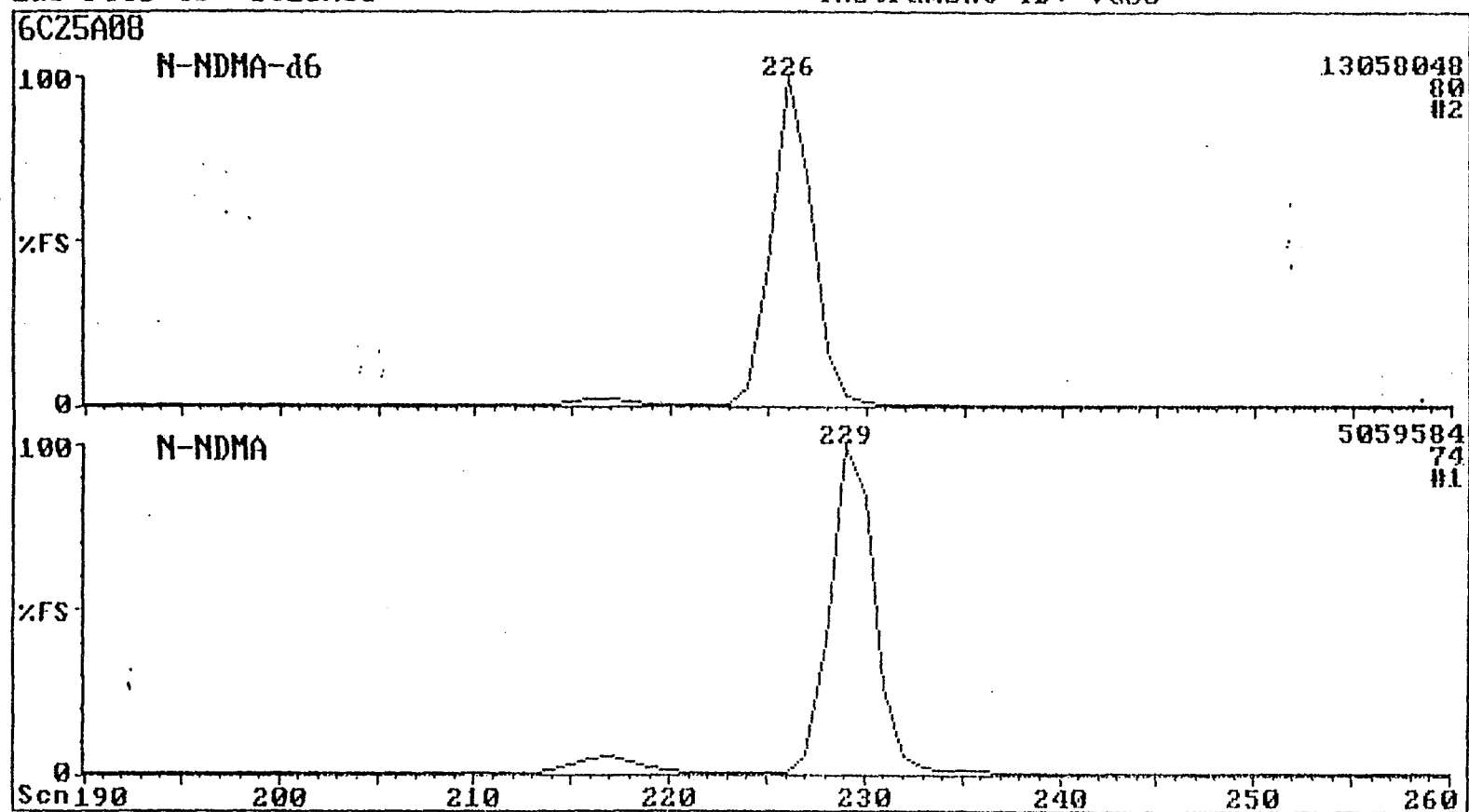
Sample No.: 0.50 PPM STD
Lab File ID: 6C25A08

Analyzed: 03/25/99 1810
Instrument ID: VG06



Sample No.: 0.50 PPM STD
Lab File ID: 6C25A08

Analyzed: 03/25/99 1810
Instrument ID: VG06



Sample: 1.00 PPM STD
Lab File: 6C25A09

NSTD1.00

Analyzed: 03/25/99 1852
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99

0737

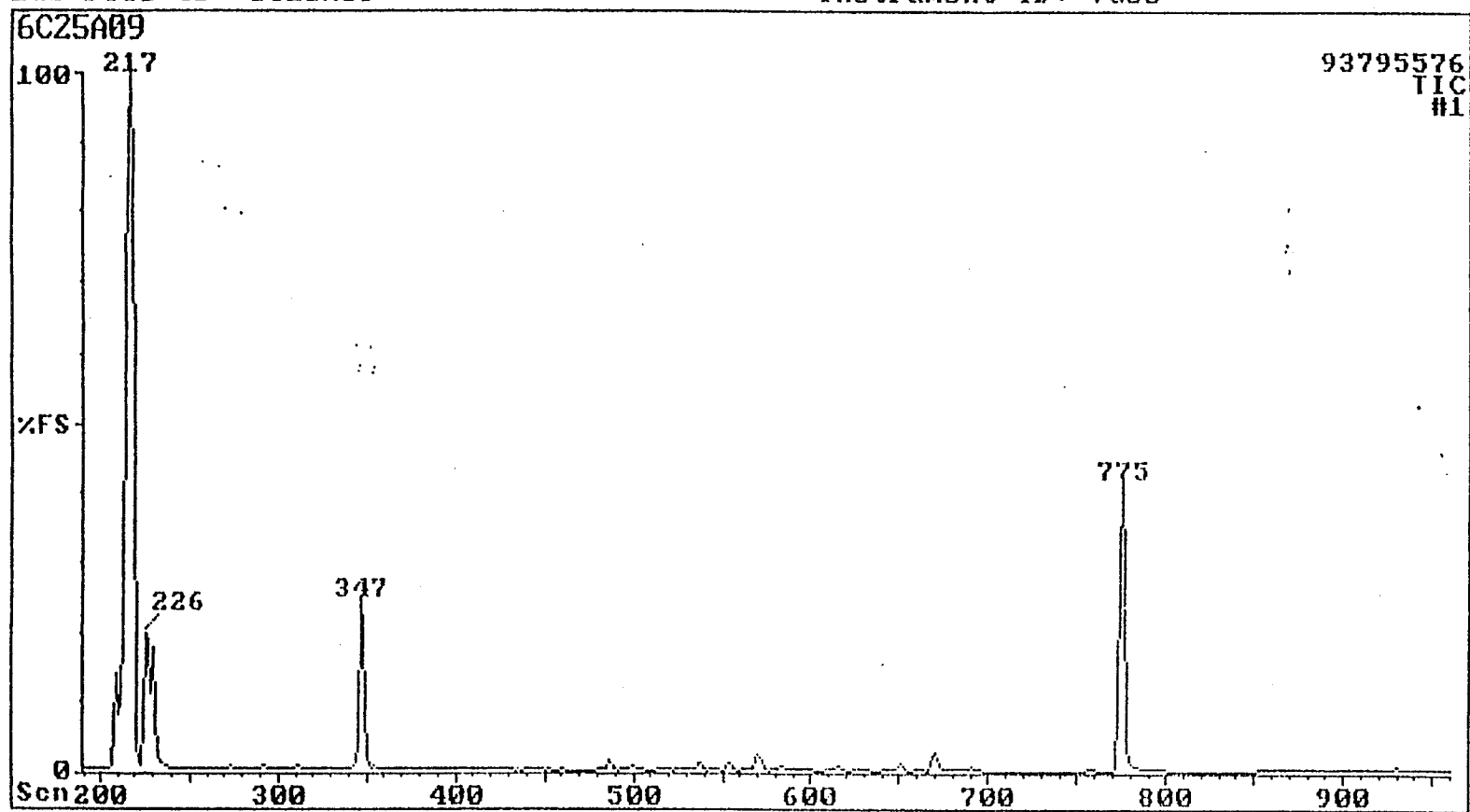
Raw Datafile : 6C25A09
Find DB : NNDMA.

Quan DB : 6C25A09
Scan DB : NONE

No.	MAT	FOR	REV	Diff	Peak Area Flgs	Found	Scan Pred	QM	Compound Name
1	100	90	100	1	107364121	b?	775 774	190	2,2'-Difluorobiphenyl
2	100	95	100	0	30106551	b?	226 226	80	N-Nitrosodimethylamine-d6
3	100	95	99	-1	25386272	b?	229 230	74	N-Nitrosodimethylamine

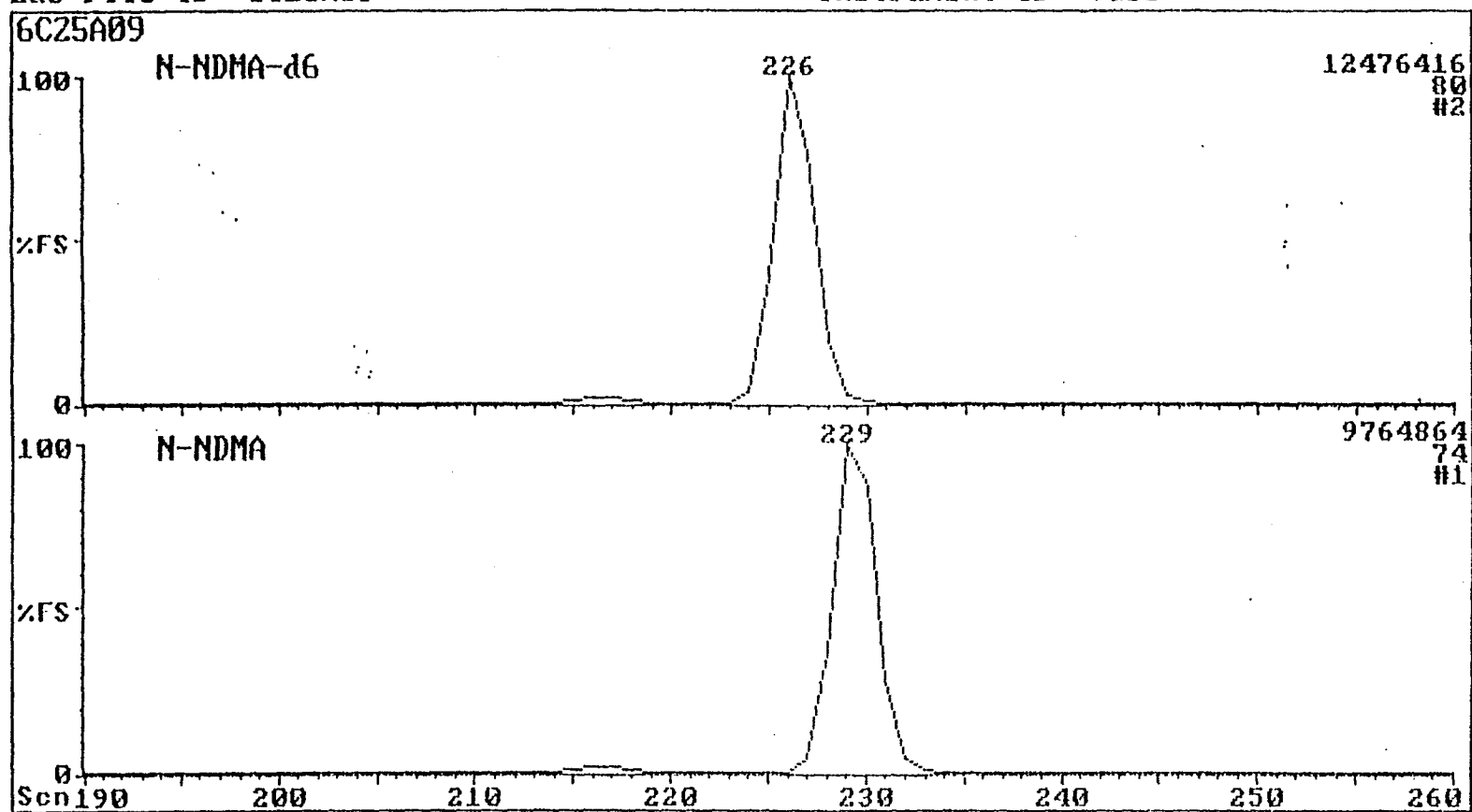
Sample No.: 1.00 PPM STD
Lab File ID: 6C25A09

Analyzed: 03/25/99 1852
Instrument ID: VG06



Sample No.: 1.00 PPM STD
Lab File ID: 6C25A09

Analyzed: 03/25/99 1052
Instrument ID: VG06



ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

P&R D15

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: P&R D15
Lab File ID: 6C25A10
Date Sampled:
Date Extracted: 03/24/99
Date Analyzed: 03/25/99
Time Analyzed: 1933

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.06		87 %

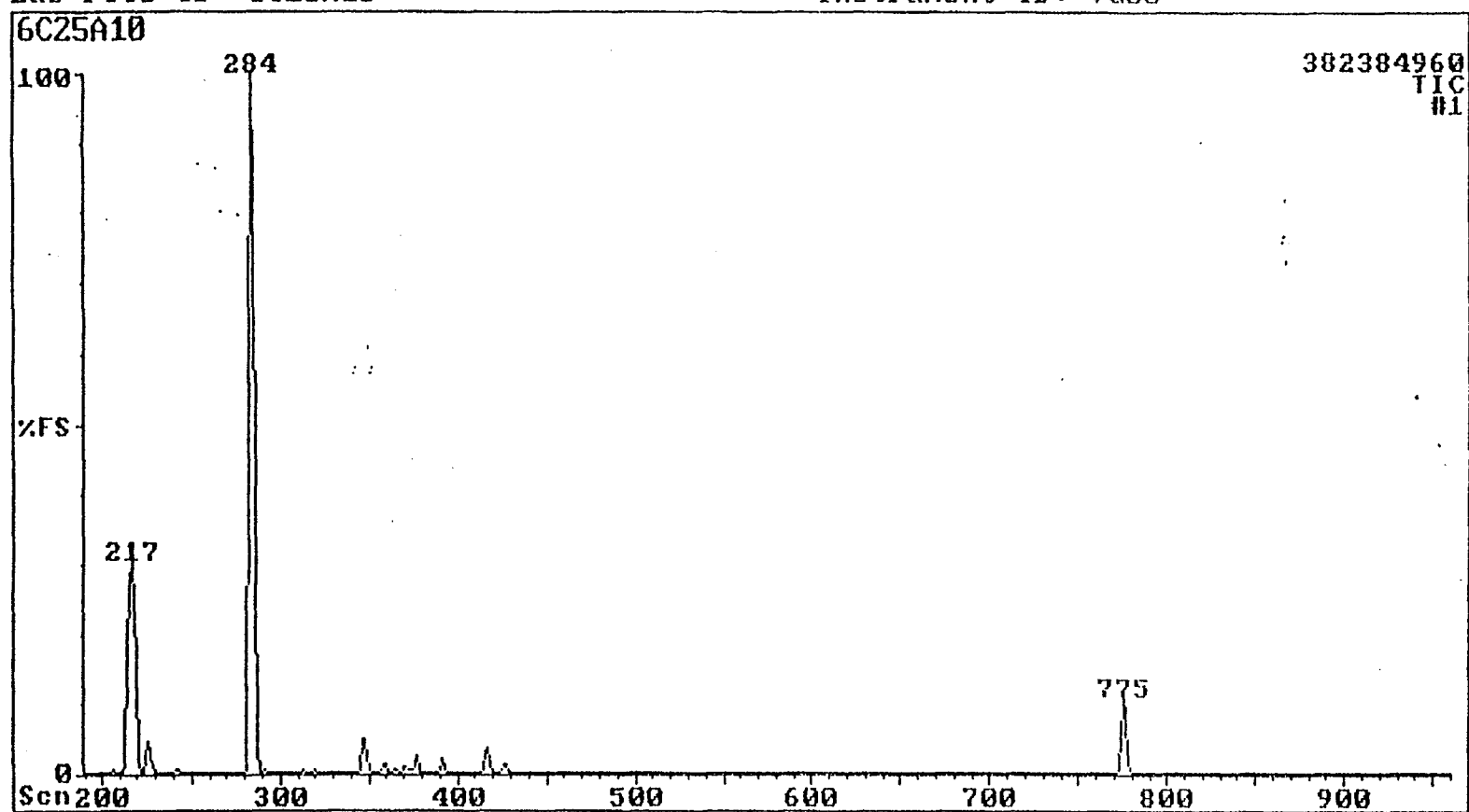
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

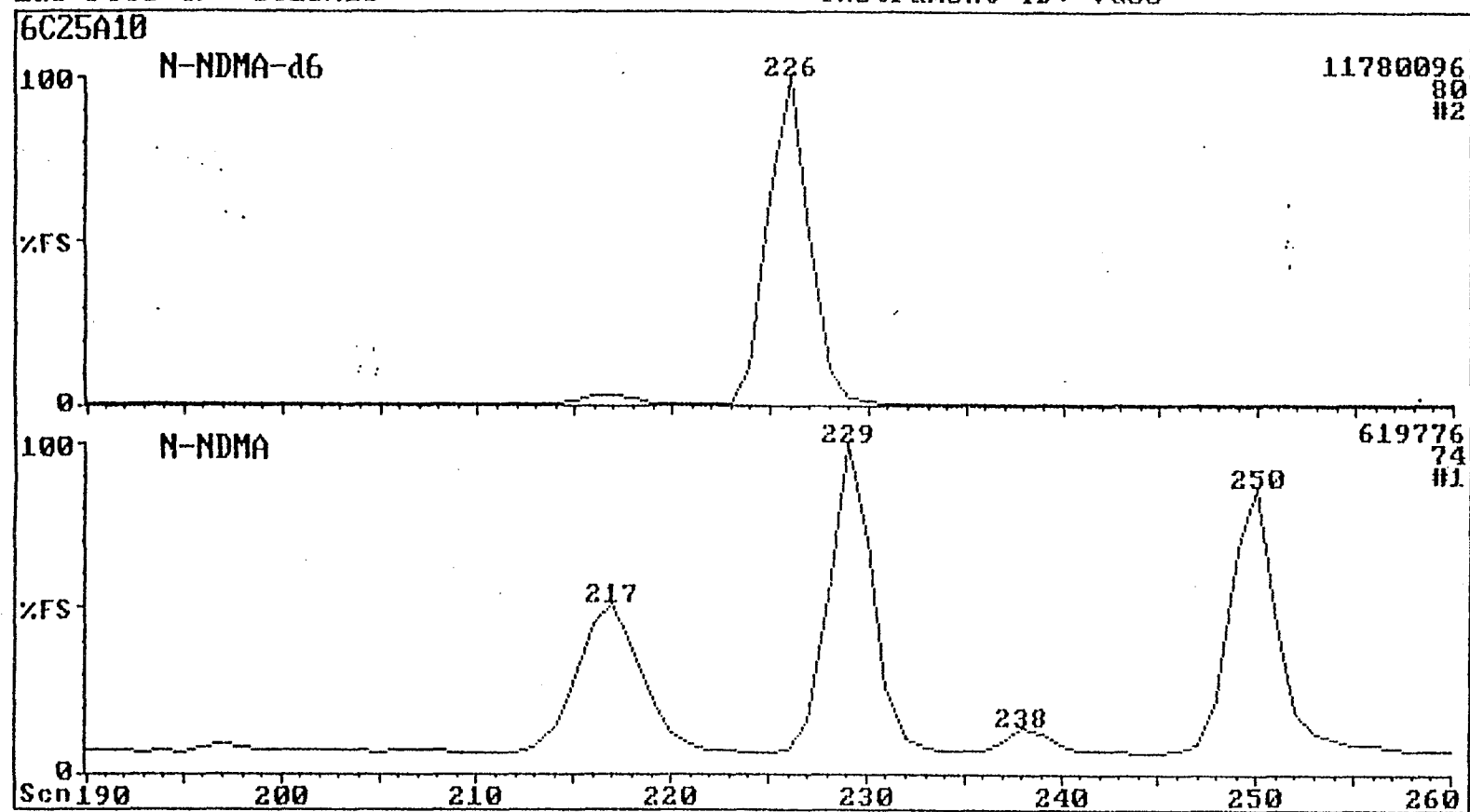
Sample No.: P&R D15
Lab File ID: 6C25A10

Analyzed: 03/25/99 1933
Instrument ID: VG06



Sample No.: P&R D15
Lab File ID: 6C25A10

Analyzed: 03/25/99 1933
Instrument ID: VG06



Sample: P&R D15 P&R D15 Analyzed: 03/25/99 1933
 Lab File: 6C25A10 Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	0808
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=====

Raw Datafile : 6C25A10	Quan DB : 6C25A10
Find DB : NNDMA	Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		QM	Compound Name
	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred		
1	100	91	100	1	112646127	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	94	99	0	28230000	b?	226	226	80	N-Nitrosodimethylamine-d6
3	100	69	97	-1	1471104	b?	229	230	74	N-Nitrosodimethylamine

On-going Accuracy (P&R) Check

=====

EPA Name: P&R D15	Lab ID: P&R D15	Lab File: 6C25A10
Instr: 06	ICAL: 6C25	Acquisition Date: 03/25/99 Acquisition Time: 1933

=====

Compound	Target Conc.	Rec.	Label Rec.	Limits
N-Nitrosodimethylamine	0.06	61.77	86.6	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

B9052

Lab Name: PACIFIC ANALYTICAL, INC.

Matrix: WATER

Sample wt/vol: 1000 ml

Concentrated Extract Volume: 1000 ul

Injection Volume: 1 ul

GPC Cleanup: N/A

Fraction: Combined

Lab Sample ID: 9052

Lab File ID: 6C25A12

Date Sampled:

Date Extracted: 03/24/99

Date Analyzed: 03/25/99

Time Analyzed: 2057

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	88 %

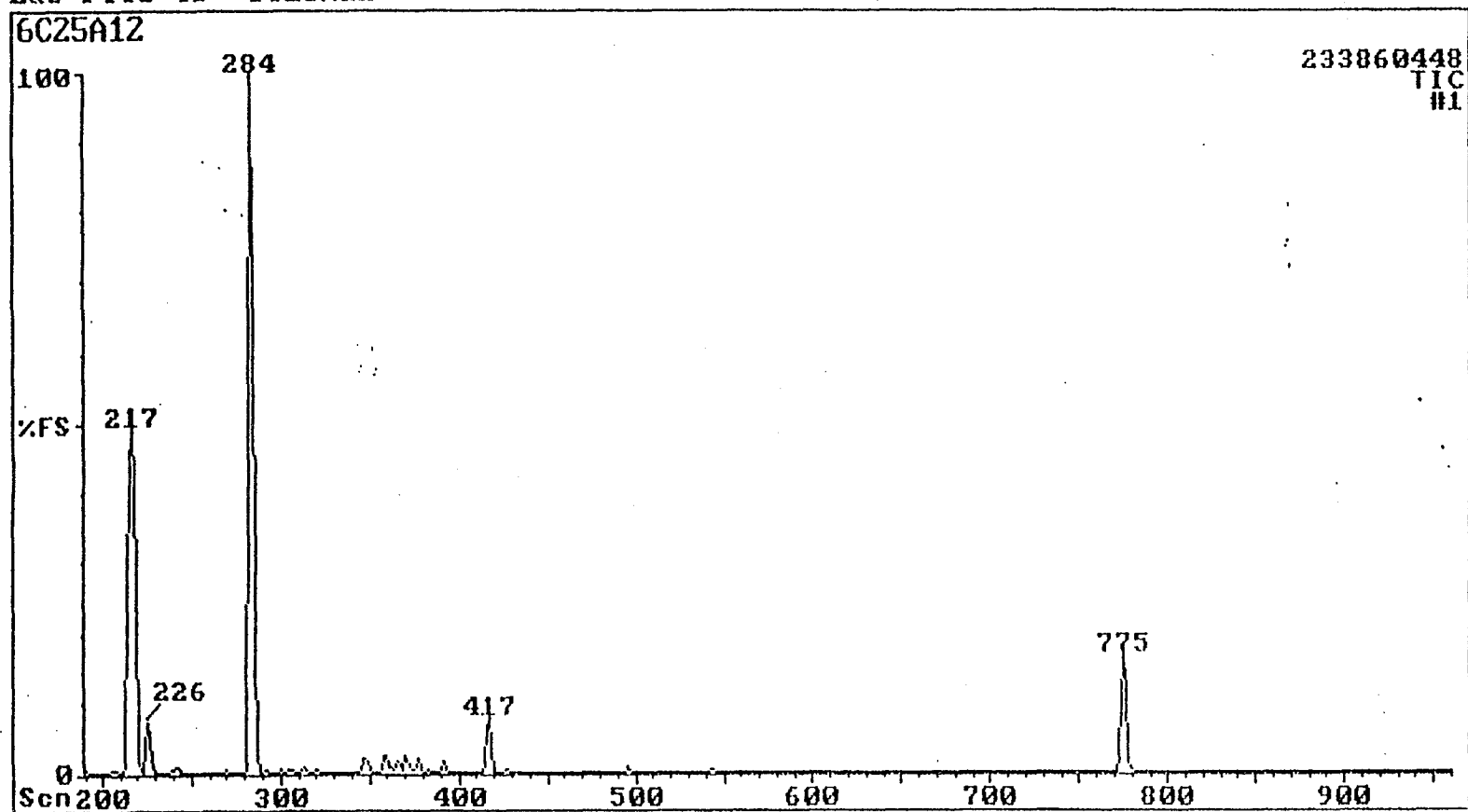
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

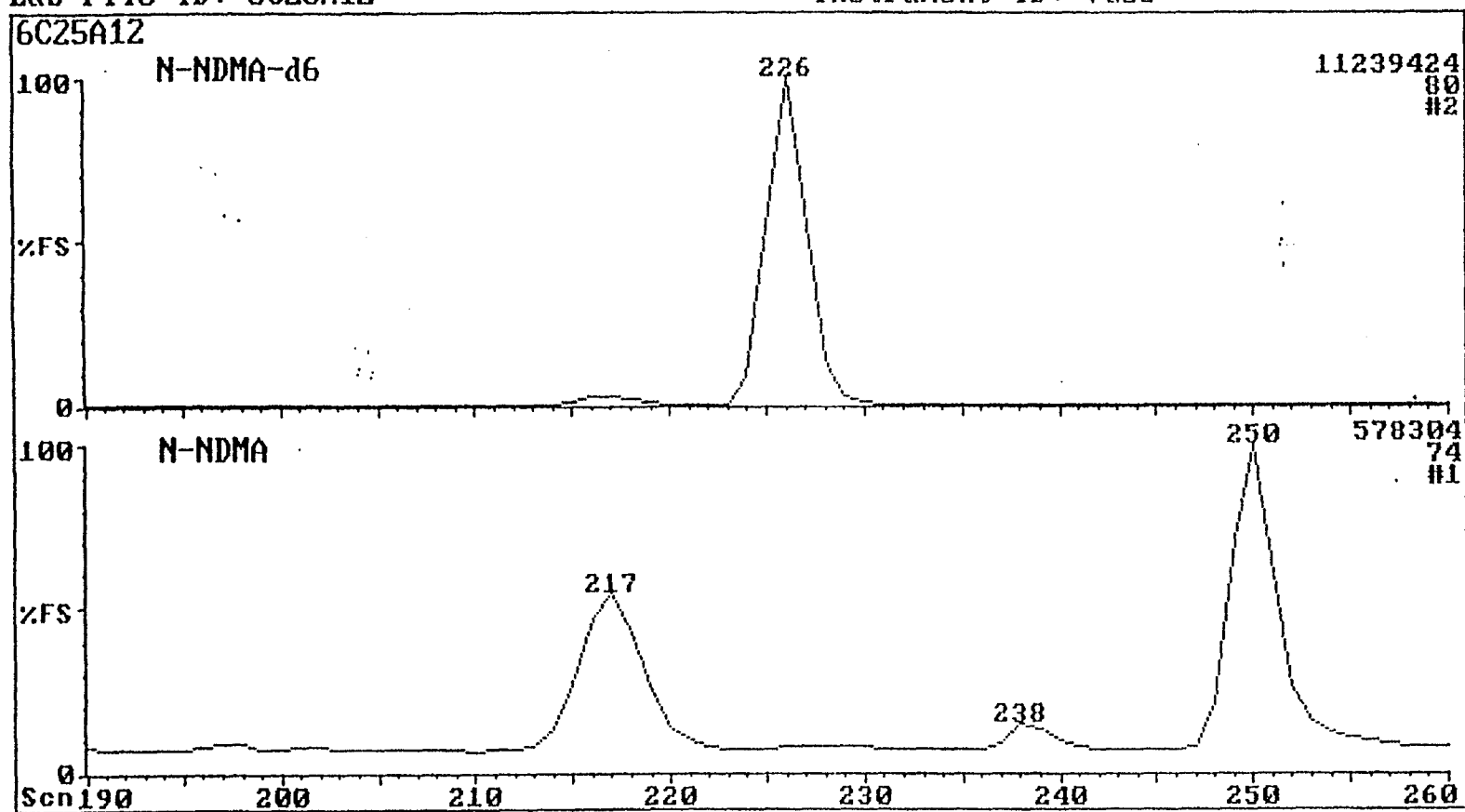
Sample No.: B9052
Lab File ID: 6C25A12

Analyzed: 03/25/99 2057
Instrument ID: VG06



Sample No.: B9052
Lab File ID: 6C25A12

Analyzed: 03/25/99 2057
Instrument ID: VG06



Sample: B9052 9052 Analyzed: 03/25/99 2057
 Lab File: 6C25A12 Instrument ID: 06

=====

Interim Report LAB-BASE FIND 03/26/99 0810

=====

Raw Datafile : 6C25A12 Guan DB : 6C25A12
 Find DB : NNDMA Scan DB : NONE

No.	MAT	FOR	REV	Spectrum Scan Diff	Peak Area Flgs	Scan Found	Pred	QM	Compound Name
1	100	90	100	1	105356868 b?	775	774	190	2,2'-Difluorobiphenyl
2	100	95	99	0	26823649 b?	226	226	80	N-Nitrosodimethylamine-d6
3	70	32	80	-1	12704 !!	229	230	74	N-Nitrosodimethylamine
	47	20	88	2	107296 !!	238			

Quantitation Results

=====

EPA Name: B9052	Lab ID: 9052	Lab File: 6C25A12
Instr: 06	ICAL: 6C25	Acquisition Date: 03/25/99 Acquisition Time: 2057

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	88.0	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

B9053

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: 9053
Lab File ID: 6C25A13
Date Sampled:
Date Extracted: 03/24/99
Date Analyzed: 03/25/99
Time Analyzed: 2138

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	91 %

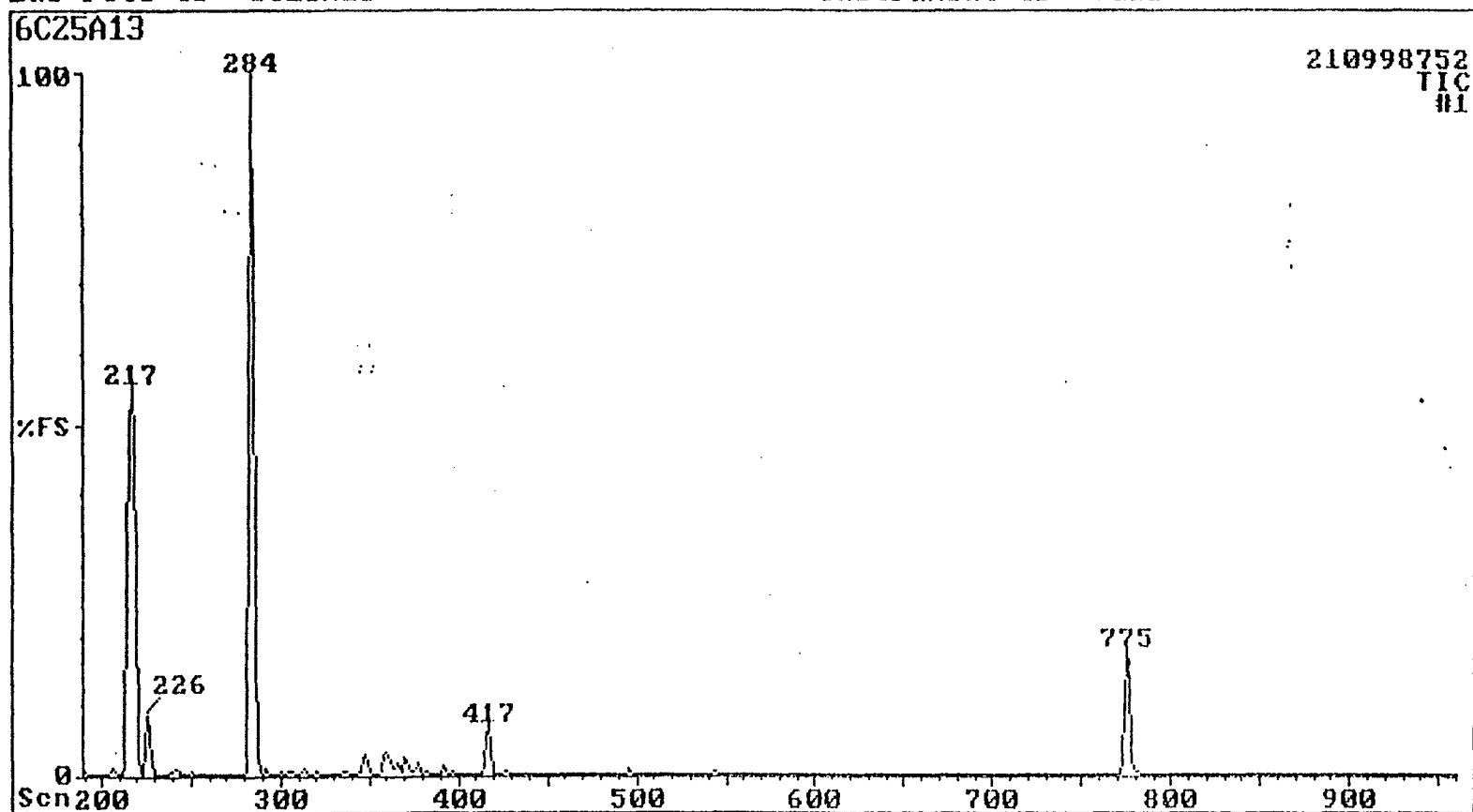
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

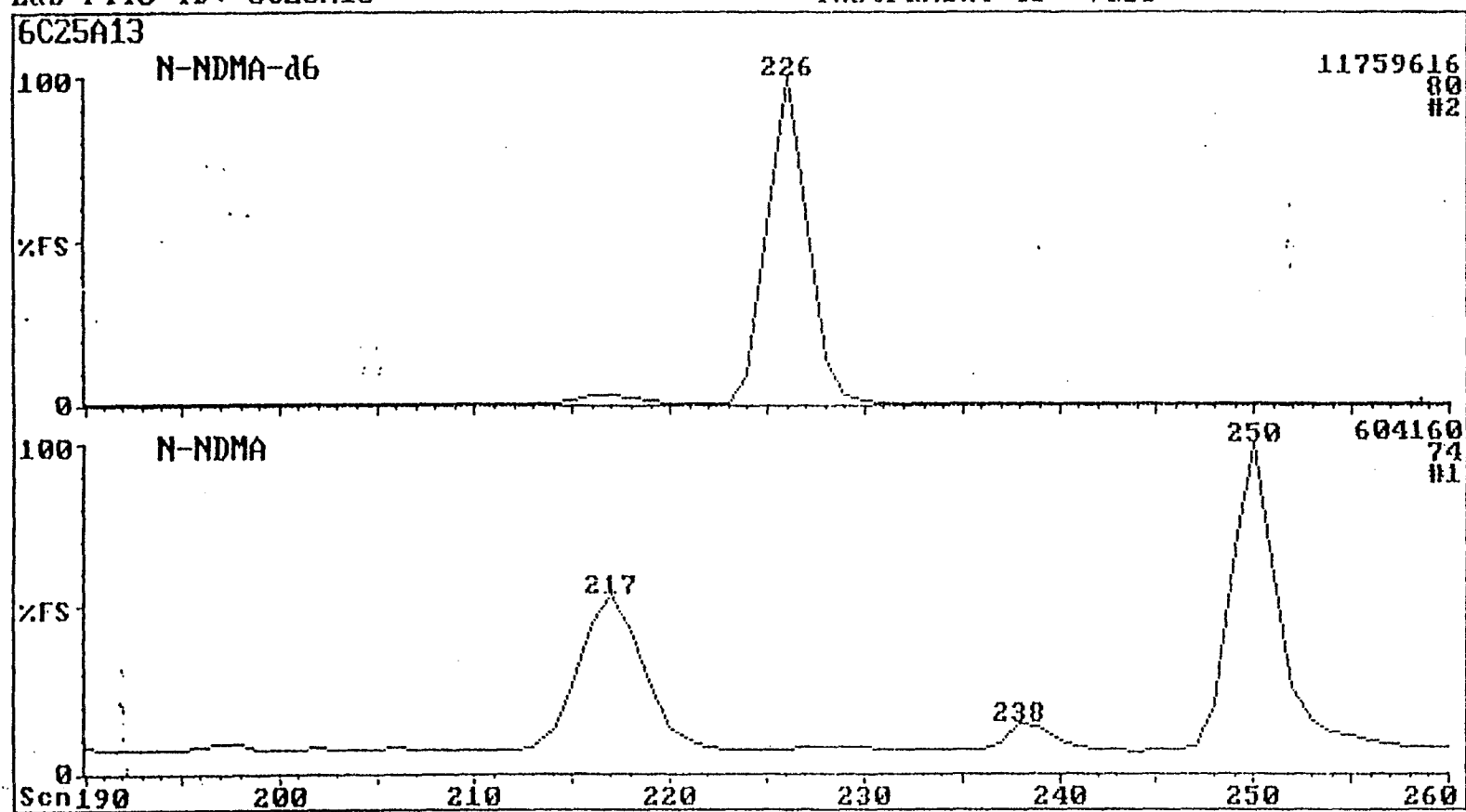
Sample No.: B9053
Lab File ID: 6C25A13

Analyzed: 03/25/99 2138
Instrument ID: VG06



Sample No.: B9053
Lab File ID: 6C25A13

Analyzed: 03/25/99 2138
Instrument ID: VG06



Sample: B9053
Lab File: 6C25A13

9053

Analyzed: 03/25/99 2138
Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	0811
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=====

Raw Datafile : 6C25A13
Find DB : NNDMA

Quan DB : 6C25A13
Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		QM Compound Name	
	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred		
1	100	90	100	1	106390168	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	95	99	0	27980591	b?	226	226	80	N-Nitrosodimethylamine-d6
3	69	36	79	0	17237	!!	230	230	74	N-Nitrosodimethylamine
	47	20	89	8	129840	b?	238			

Quantitation Results

=====

EPA Name: B9053	Lab ID: 9053	Lab File: 6C25A1:
Instr: 06	ICAL: 6C25	Acquisition Date: 03/25/99 Acquisition Time: 2138

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	90.9	25 - 175

GC/MS SEMI-VOLATILES RUN LOG

Instrument: V606

Page: 362

Cal File: 6C25

Date: 3/25/99

Notes: P 74, P82, P80, P81 NNDMA
Tune Par: SIR=5.0, SEC=109, SF1=14, SF3=210, QL=6.0, QA=10.9, DM=700
SEE=70, ST2=21.0, SF4=21, QIE=1.5, QIR=1.0

GC Par: 40°C 2.5 min, 15°C/min to 280 Hold 15 min

Taped	Sample ID	File Name	OK	Description	OP
		6C25A01		Warm-up	CB
		02			
		03			
		04			
	NSSTD0.02	05		0.02 ug/ml NNDMA + Dioxane IGL	
	NSSTD0.05	06		0.05	
	NSSTD0.10	07		0.10	
	NSSTD0.50	08		0.50	
	NSSTD1.00	09		1.00	
	P8015	10			
	P80Kdup	11			
	9052	12			
	9053	13			
	P8201	14			
	P7401	15			
	P7402	16			
	P8001	17			
	P8002	18			
	P8003	19			
	P8004	20			
	P8101	21			
	P8102	22			
	NSSTD0.10	23		0.10 ug/ml NNDMA Daily	
	P8103	24			
	P8104	25			

06/21/93

Reviewed by: _____ on: _____

GC/MS SEMI-VOLATILES
RUN LOG

Instrument: V606

Page: 363

Cal File: 6C25

Date: 3/25/99

Notes: Same as Page 362

[illegible]

PACIFIC ANALYTICAL, INC.

*** SAMPLE RECEIPT LOG ***

PA JOB NUMBER: 180
(Sample Tracking Information)

JOB _____ TASK _____
(Invoice Informatio

CUSTOMER: MONTGOMERY WATSON

RECEIVED BY: JTJ

REVISION DATE: 03/24/99

REVISION TIME: 09:50

CHAIN OF CUSTODY RECEIVED: Y

SHIPPER: FEDEX
SHIPPER CODE: 4147-8266-4688

LAB SAMPLE NUMBER OF FIRST SAMPLE TO BE LOGGED IN: P80

[illegible]

COMMENTS: 1 MED. COOLER



Martha Frost Montgomery Watson Laboratories

555 East Walnut Street
Pasadena, CA 91101
Ph (626) 568-6400 Fax (626) 568-6324

Date 03/22/99

Submittal Form

DEB

52758

Reporting: One report for this MWL Project Number 52758

Do Not Combine Report with any other samples submitted under different MWL project numbers!

Report & Invoice must have the MWL Project Number and Sub PO#: 99-0352

Report all quality control data according to Method. Include dates analyzed, date extracted (if extracted) and Method reference on the report. Fax results to 626-568-6324. Faxed results must have complete data & QC. Hardcopy report is due in hand on due date. Please advise us immediately if Due Date will be missed.

If you have questions about these samples,
please call the MWL project manager

Debbie Frank

(626) 568-6449

Ship To **Steve Parsons**
Pacific Analytical, Inc
6349 Paseo del Lago
Carlsbad, CA 92009

(760) 438-3100

MWL
Project # 52758

Report
Due: 4/1/99

For Prompt Payment, please mail Hardcopy Report & Invoice to attention of
Martha Frost Montgomery Watson Laboratories 555 East Walnut St Pasadena CA 91101
even if your arrangements were made with the MWL project manager.

Use MWL

Lab # for ID

Client Sample ID for reference only

Analysis Requested

Sample Date

Matrix

Container

Qty	Test Code	Lab # for ID	Client Sample ID for reference only	Analysis Requested	Sample Date	Matrix	Container
1	CUSTOMMS DMA	990318768	MW-991-038	N-Nitrosodimethylamine (N-NDMA)	03/18/99	aq	2 1L amber glass / no preservative

Relinquished by:

Sample Control 03/22/99

Received by:

Steve Parsons

An Acknowledgement of Receipt is requested.

P74 | P80 | P81 | P82

Extraction Date: 3/24/99

Extraction Method: 1625M (NNDMA)

Extraction Solvent: MeCl₂

Lot #: 39025 Initials: MR

Matrix: water

Fractions Extracted:

Other Reagents:

Lot #:

Surrogate Spike:

Matrix Spike:

Internal Standard:

Label:	Date Made:	Concentration:	Volume added:	Date Spiked:	Initials:	Comments:
NMDMA label	8/13/98	20 µg/mL	50 µL	3/24/99	MD	
NMDMA 100 µg SL	8/13/98	1.0 µg/mL	100 µL	3/24/99	MD	
NMDMA IS	10/12/98	100 µg/mL	10 µL	3/25/99	den	

[illegible]

QA Review: _____

**MONTGOMERY WATSON LABORATORIES**

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street

Pasadena, California 91101

Tel: 626 568 5400 Fax: 626 568 6324

1 800 566 LABS (1 800 566 5227)

**Laboratory
Report
#52758**

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
18-mar-1999 16:41:54

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-038 (990318768)					Sampled on 03/18/99			
	03/26/99		(	) Custom GCMS Analysis	SUB PAI	None	0.0000	1
1,4-Dioxane								
03/25/99	03/29/99	94292	(ML/SW 8270	) 1,4-Dioxane	ND	ug/l	3.0	1
			(Surrogate	) 2-Fluorobiphenyl	72	% Rec		
			(Surrogate	) Nitrobenzene-d5	75	% Rec		
			(Surrogate	) Terphenyl-d14	46	% Rec		

**MONTGOMERY WATSON LABORATORIES**

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 56 5227)

Laboratory
QC Report
#52758

Foster Wheeler Environmental, Inc

QC Batch #94292**1,4-Dioxane**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,4-Dioxane	10	8.36	83.6	(70.00 - 130.00)	
MBLK	1,4-Dioxane	ND				
MS	1,4-Dioxane	10	10.9	109.0	(70.00 - 130.00)	
MSD	1,4-Dioxane	10	8.80	88.0	(70.00 - 130.00)	21
MS	Spiked sample	Lab # 99	0319306		(0.00 - 0.00)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.



MONTGOMERY WATSON LABORATORIES

A division of Montgomery Watson Americas, Inc.

Quality Environmental Analysis

April 9, 1999

Foster Wheeler Environmental
611 Anton Blvd, Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 52730 (MW-991-072, MW-991-005)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):

None

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Other Comments:

Pacific Analytical, Inc utilizing EPA method 1625C, analyzed n-Nitrosodimethylamine, NDMA. This is a Gas Chromatographic Mass Spectroscopic methodology utilizing Isotope dilution in Specific Ion Mode, GCMS-SIM. This method does not require an MS/MSD. The reporting limit is 0.03 ppb or 30 ppt. Any detects below the MRL, but above the MDL of 0.005 ppb, would show on the Quantitation Results page. Results below 0.030 ppb but above 0.005 are DNQ (Detect Not Quantifiable) these are estimates only. A standard at 0.020 ug/ml, equivalent to a sample concentration of 0.020 ppb, is the lowest standard analyzed with the calibration. All samples are ND, <0.030 ppb.

Montgomery Watson Laboratories analyzed 1,4-Dioxane following EPA method 8270 in the standard operating mode. The Minimum reporting limit is 3.0 ppb.

TIC's:

None

Method Variance:

None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

Laboratory
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

Southwest Service Center
4820 South Mill Avenue - Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Northern California Service Center
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0005-0001
Group#: 52730
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 03/17/99. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
990317434	MW-991-072	@DIOXANE CUSTOMMS	Water	03/17/99
990317435	MW-991-005	@DIOXANE CUSTOMMS	Water	03/17/99

Test Acronym Description

Test Acronym	Description
@DIOXANE	1,4-Dioxane
CUSTOMMS	Custom GCMS Analysis



52730

NUM. 1242

TEMP - 6-12

B.D - OK

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO 1572 0265		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS											
PROJECT ADDRESS 4500 Oak Grove Dr Pasadena CA				ANALYSES REQUIRED 14-Dioxane DMA													
SAMPLER (Name) J. BIRNBAUM		SAMPLER (Signature) [Signature]															
LABORATORY MONTGOMERY WATSON LABS																	
REPORTS TO BE SENT TO M. J. MALL CUTEZ																	
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL WATER SOIL OTHER (Describe)												
MW 991-072	0930	3/17/91	2	2 x 10L	X				X	X							
MW 991-009	1415	↓	2	↓	X				X	X							
LABORATORY INSTRUCTIONS/COMMENTS Lately, I've WA/QC																	
RELINQUISHED BY (Signature) [Signature]		DATE 3/17/91	RECEIVED BY (Signature) [Signature]		DATE 3/17/91		RELINQUISHED BY (Signature) [Signature]		DATE 3/17/91	RECEIVED BY (Signature) [Signature]		DATE 3/17/91		RECEIVED BY (Signature) [Signature]		DATE 3/17/91	
COMPANY FWC		TIME 17:25	COMPANY FWC		TIME 17:25		COMPANY FWC		TIME 17:25	COMPANY FWC		TIME 17:25		COMPANY FWC		TIME 17:25	



52729

NUMBER 1241

TEMP- 6-12

BC - REG ICE STILL OK

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572 0260		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS	
PROJECT ADDRESS 4320 OAK GROVE DR PASADENA CA				ANALYSES REQUIRED VOCs (SW-2) TOM AC GR PB (GAS/TOX) MADL ARV-33 + PDS Hex Cr C104 PC En Cr- b			
SAMPLER (Name) J. B. ZIMMERMAN		SAMPLER (Signature) [Signature]					
LABORATORY MONTGOMERY WATSON LABS							
REPORTS TO BE SENT TO M2 MAIL C-136							
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL		
					WATER	SOIL	OTHER (Describe)
MW 991-112	1500	3/17/91	2	2 x 40ml	X		
MW 991-111	1445	/	5	2 x 40ml 1 x 250ml 2 x 125ml	X		
MW 991-072	0930		6	2 x 40ml 1 x 250ml 2 x 125ml 1 x 50ml	X		
MW 991-071	0945		5	2 x 40ml 1 x 250ml 2 x 125ml	X		
MW 991-074	1320		6	2 x 40ml 1 x 250ml 2 x 125ml 1 x 500ml	X		
MW 991-005	1415		6		X		
LABORATORY INSTRUCTIONS/COMMENTS Level IX GR/QC							
RELINQUISHED BY (Signature) [Signature]		DATE 3-17-91	RECEIVED BY (Signature) [Signature]		DATE	RECEIVED BY (Signature)	
COMPANY Foster Wheeler		TIME 17:25	COMPANY M.W.		TIME	COMPANY	

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH

Date Received: 3-17-99

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 3-17-99
by (print) MARTIN L. DEMESA (sign) [Signature]

1. Did cooler come with shipping slip (air bill, etc.)? Yes No
If YES, attach & enter carrier and air bill # here: DELIVERED BY CLIENT

2. Were custody seals on outside of cooler? (OUTSIDE) Yes No
If YES, how many & where: 2 LID OF COOLER
If Yes, enter the following: seal date: 3-17-99, seal name: J.B.

3. Were custody seals unbroken & intact at delivery? Yes No

4. Were custody papers sealed in bag & taped to lid? Yes No

5. Were custody papers filled out properly (ink, etc.) Yes No

6. Did you sign custody papers in appropriate place? Yes No

7. Was project identifiable from custody papers? Yes No

8. Have designated person(s) initial to acknowledge receipt: M.L.D. (date) 3-17-99

B. LOG-IN PHASE: Date samples were logged-in: 3-17-99 by:
(print) M. DEMESA (sign) [Signature]

9. Describe packing:

10. If required, was enough ice used? Yes No

11. Were all bottles sealed in separate plastic bags? Yes No

12. Did all bottles arrive unbroken/in good condition? Yes No

13. Were all bottle labels complete (ID, date, sign, pres)? Yes No

14. Did all bottle labels agree with custody papers?
If NO, indicate discrepancies on back. Yes No

15. Were correct containers used for the analytes? Yes No

16. Were correct preservatives used when required? Yes No

17. Was sufficient amount of sample sent for tests? Yes No

18. Bubbles absent in VOA vials?
If NO, list by sample id on back. Yes No

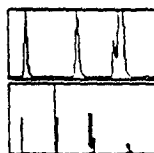
19. Was Client Services informed of problems? Yes No

Report Summary of positive results, PR52730

			Result	MDL	UNITS
Analyzed	990317434	MW-991-072			
03/25/99	Custom GCMS Analysis		SUB PAI		NONE
Analyzed	990317435	MW-991-005			
03/25/99	Custom GCMS Analysis		SUB PAI		NONE

Semi-Volatiles DATA SUMMARY PACKAGE

CLIENT: MONTGOMERY WATSON
JOB #: P74
DATE: MARCH 26, 1999



Pacific Analytical, Inc.
6349 Paseo Del Lago □ Carlsbad, CA 92009
(760) 438-3100



NARRATIVE REPORT
Method 1625C Semivolatiles

PA Reference: P74

03/26/99

Samples: MW-991-005, MW-991-072

Semivolatiles analysis:

The samples were extracted and analyzed by Method 1625C, modified for the lowest possible detection limits. A 1000 mL aliquot was spiked with 1.0 ug of deuterated N-Nitrosodimethylamine-d6 and extracted with liquid-liquid extractors for 24 hours. The sample extract was concentrated to a final volume of 1.0 mL and then spiked with 1.0 ug of 2,2'-Difluorobiphenyl as an internal recovery standard. The extract was analyzed by GC/MS with the mass spectrometer operating in the "Specific Ion Mode" for greater sensitivity and lower detection limits. The instrument was calibrated with five initial calibration standards ranging from 0.02 ug/mL to 1.00 ug/mL. A recent minimum detection limit study suggests that the instrument is capable of detecting N-Nitrosodimethylamine (NNDMA) at 0.005 ug/mL. However for reporting purposes, our detection limit is 0.03 ug/mL which translates to a sample concentration of 0.03 ug/L.

On-Going Precision and Recovery

A laboratory blank (P&R) was spiked with 0.10 ug of NNDMA and its labeled analog, and extracted and analyzed like a sample for each analytical batch. Recoveries for NNDMA and its label were within method specified recovery limits.

Blank

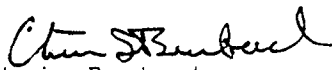
A laboratory blank was extracted and analyzed like the sample with each extraction batch. NNDMA was not detected at or above our report limit of 0.03 ug/L.

Samples

The samples MW-991-005 and MW-991-072 are clean with no NNDMA detected.

The data package consists of a summary page followed by a chromatogram and a close up of the extracted ion current profile of NNDMA and its label. This is followed by the raw data printout with areas and scan numbers, and finally a "Quantitation Results" page which lists extract concentrations in ug/mL.

Please contact Chris Burbach or Steve Parsons at (760) 438-3100 if there are any questions concerning this data package.


Chris Burbach
GC/MS Chemist

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

MW-991-005

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: P7401
Lab File ID: 6C25A15
Date Sampled: 03/17/99
Date Extracted: 03/24/99
Date Analyzed: 03/25/99
Time Analyzed: 2302

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	73 %

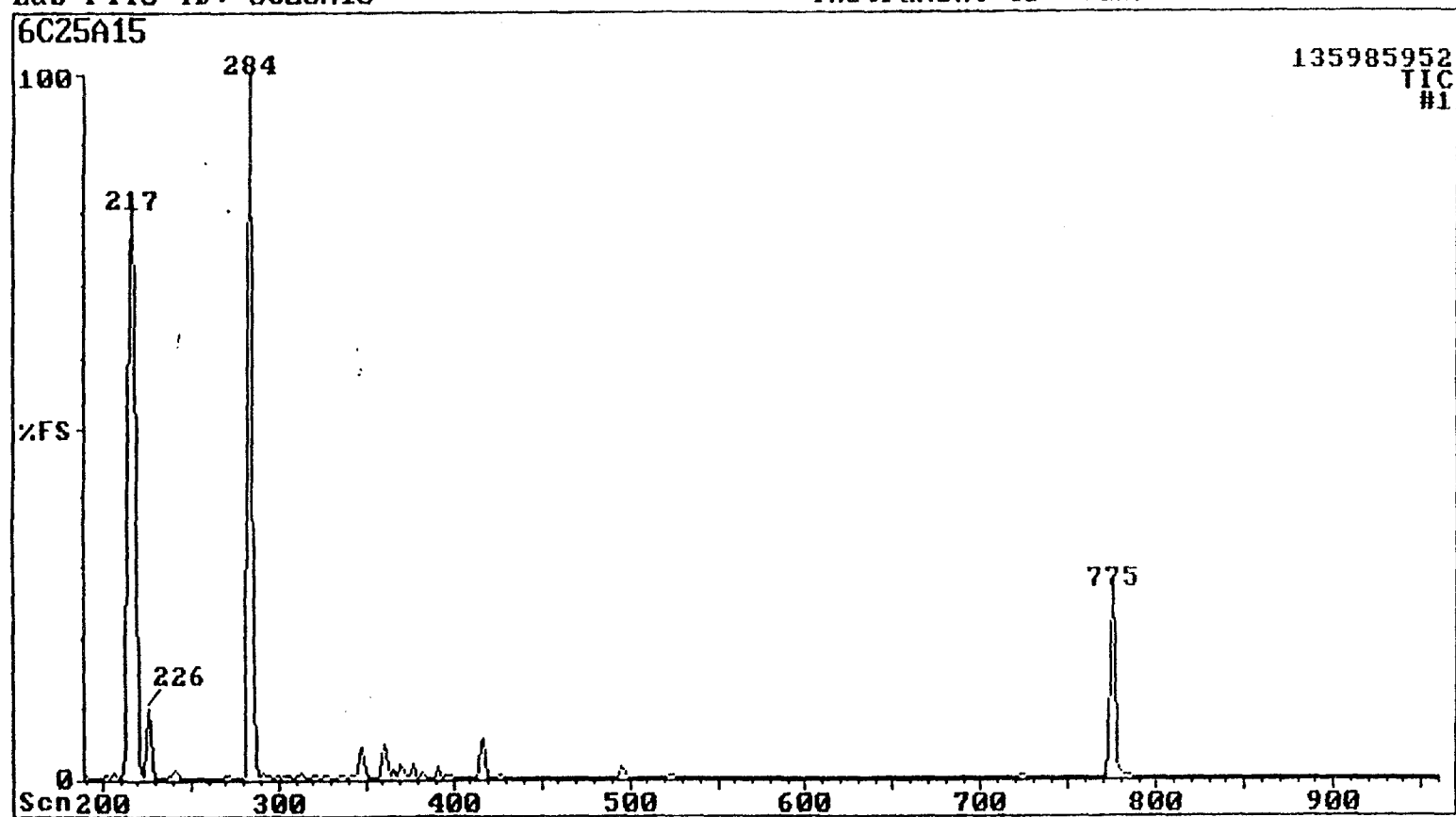
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

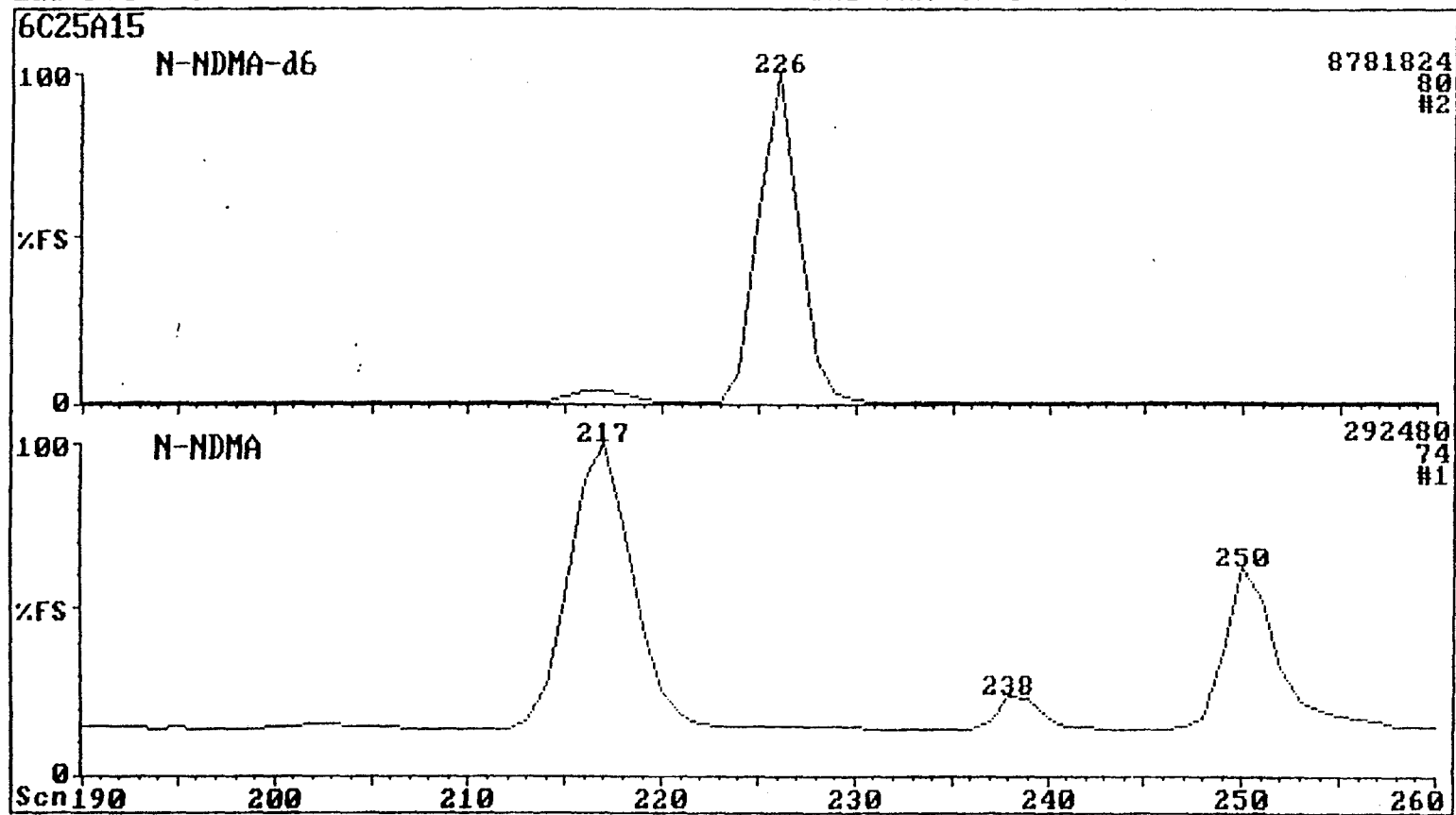
Sample No.: MW-991-005
Lab File ID: 6C25A15

Analyzed: 03/25/99 2302
Instrument ID: VG06



Sample No.: MW-991-005
Lab File ID: 6C25A15

Analyzed: 03/25/99 2302
Instrument ID: VG06



Sample: MW-991-005 P7401 Analyzed: 03/25/99 2302
 Lab File: 6C25A15 Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	0813
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=====

Raw Datafile : 6C25A15 Quan DB : 6C25A15
 Find DB : NNDMA Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		QM	Compound Name
	MAT	FDR	REV	Diff	Area	Flgs	Found	Pred		
1	100	90	100	1	98640841	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	94	99	0	20887689	b?	226	226	80	N-Nitrosodimethylamine-d6
3	64	38	77	3	104	!!	233	230	74	N-Nitrosodimethylamine
	47	22	88	8	79091	!!	238			

Quantitation Results

=====

EPA Name: MW-991-005	Lab ID: P7401	Lab File: 6C25A15
Instr: 06	ICAL: 6C25	Acquisition Date: 03/25/99 Acquisition Time: 2302

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	73.2	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

MW-991-072

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: P7402
Lab File ID: 6C25A16
Date Sampled: 03/17/99
Date Extracted: 03/24/99
Date Analyzed: 03/25/99
Time Analyzed: 2344

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	81 %

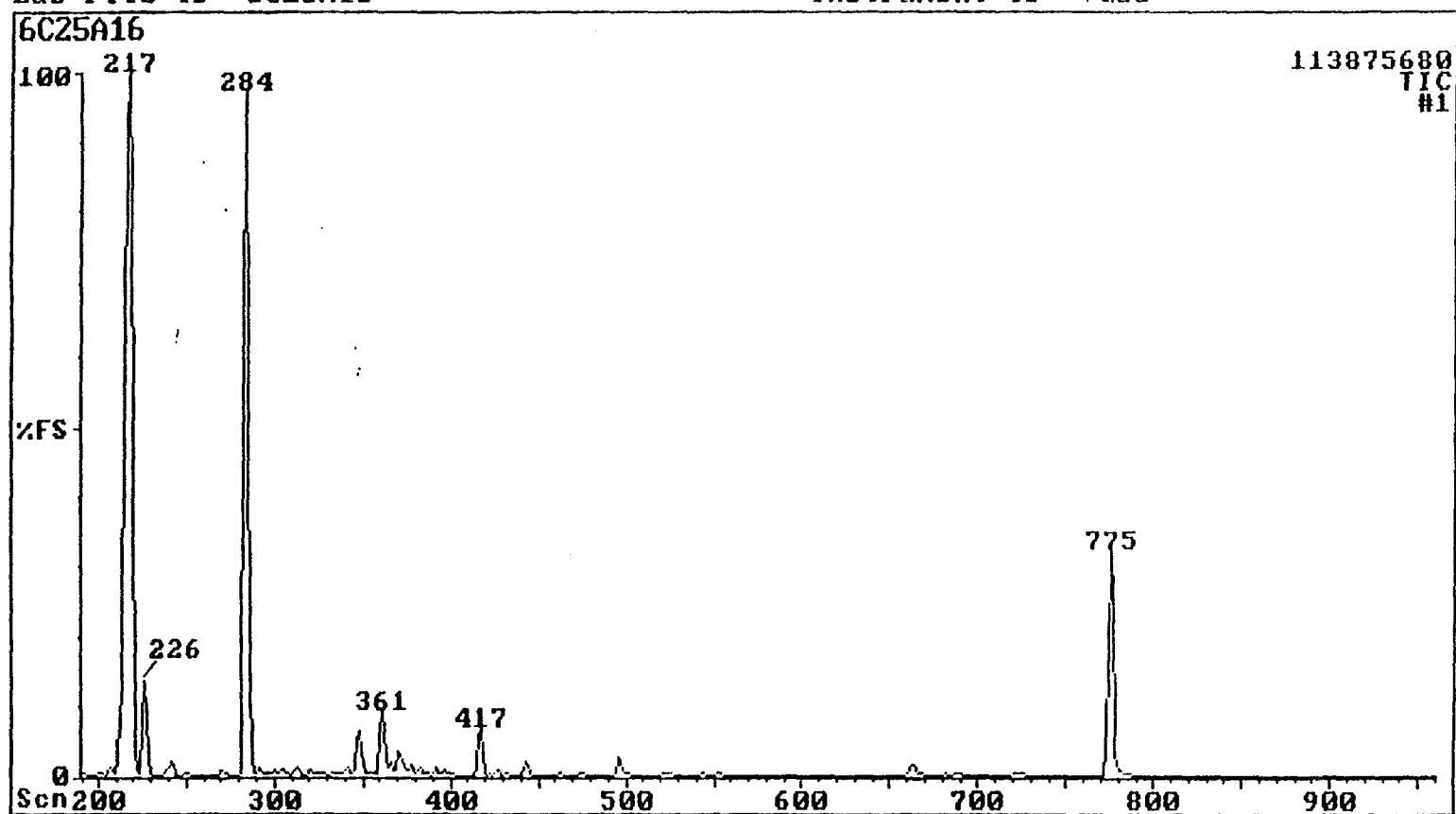
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

Sample No.: MW-991-072
Lab File ID: 6C25A16

Analyzed: 03/25/99 2344
Instrument ID: VG06

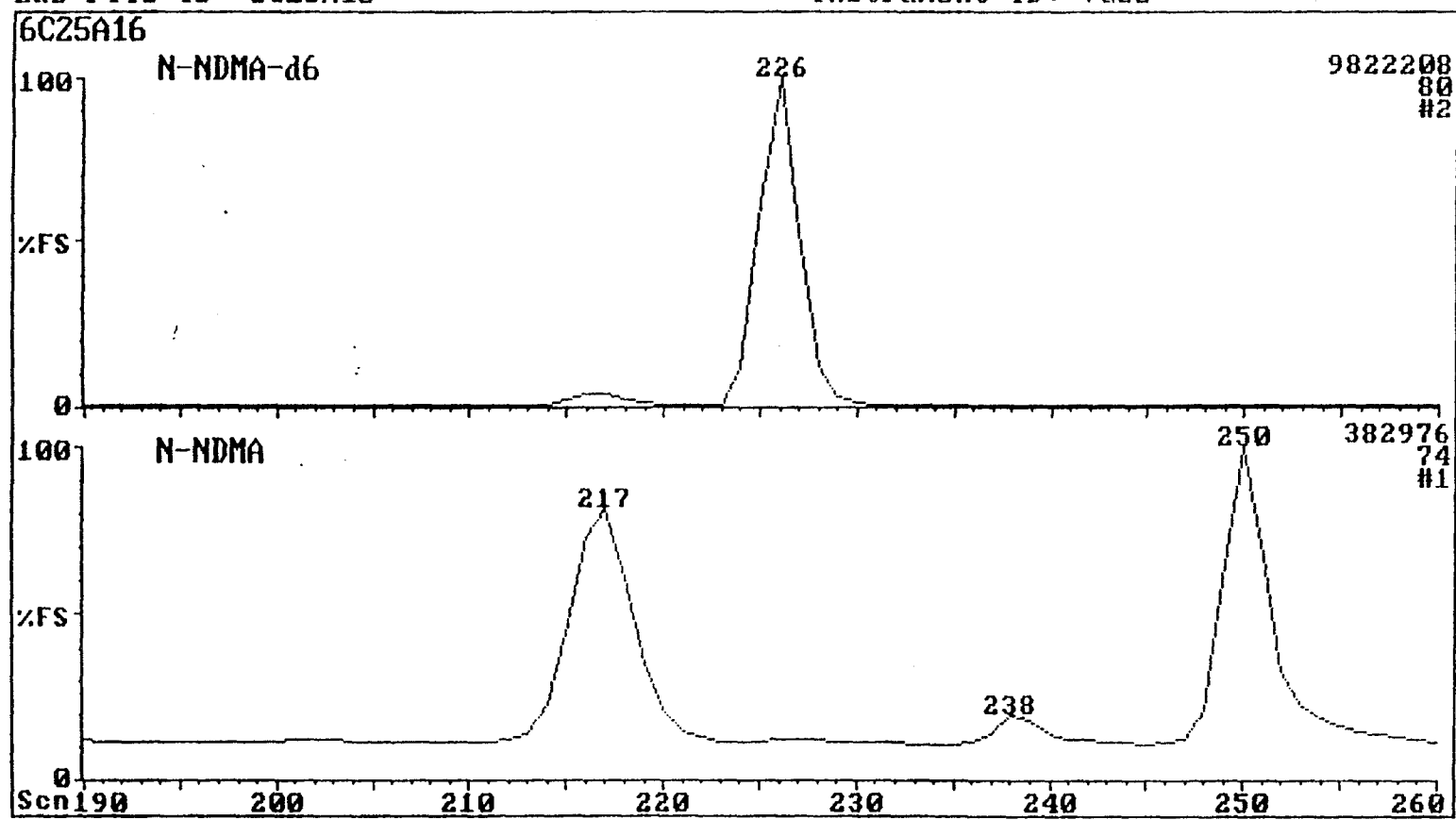


Sample No.: MW-991-072

Lab File ID: 6C25A16

Analyzed: 03/25/99 2344

Instrument ID: VG06



Sample: MW-991-072 F7402 Analyzed: 03/25/99 2344
 Lab File: 6C25A16 Instrument ID: 06

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Interim Report	LAB-BASE FIND	03/26/99	0814
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Raw Datafile : 6C25A16 Quan DB : 6C25A16
 Find DB : NNDMA Scan DB : NONE

No.	Spectrum Scan				Peak	Scan		QM	Compound Name
	MAT	FOR	REV	Diff	Area Flgs	Found	Pred		
1	100	90	100	1	99817082	b?	775	774	190 2,2'-Difluorobiphenyl
2	100	94	99	0	23476552	b?	226	226	80 N-Nitrosodimethylamine-d6
3	66	37	78	3	664	!!	233	230	74 N-Nitrosodimethylamine
	53	33	84	8	91615	!!	238		

Quantitation Results

=====

EPA Name: MW-991-072	Lab ID: P7402	Lab File: 6C25A16
Instr: 06	ICAL: 6C25	Acquisition Date: 03/25/99 Acquisition Time: 2344

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	81.3	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
LABELED COMPOUNDS

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG06

Calibration Date: 03/25/99

LAB FILE IDs:

RF 0.02 = 6025A05
RF 0.05 = 6025A06
RF 0.10 = 6025A07
RF 0.50 = 6025A08
RF 1.00 = 6025A09

COMPOUND	RF 0.02	RF 0.05	RF 0.10	RF 0.50	RF 1.00	RF MEAN	% RSD
2 N-Nitrosodimethylamine-	0.287	0.295	0.289	0.295	0.280	0.289	2.1

Internal Standard = 1 ug/mL

Pollutant Compounds = 0.02, 0.05, 0.10, 0.50, 1.00 ug/mL

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
COMPOUNDS HAVING A LABELED REFERENCE

Lab Name: PACIFIC ANALYTICAL

Instr. ID: VG06

Calibration Date: 03/25/99

LAB FILE IDs:

RF 0.02 = 5025A05

RF 0.05 = 5025A06

RF 0.10 = 5025A07

RF 0.50 = 5025A08

RF 1.00 = 5025A09

COMPOUND	RR 0.02	RR 0.05	RR 0.10	RR 0.50	RR 1.00	SLOPE	INTCP
3 N-Nitrosodimethylamine	0.016	0.043	0.083	0.420	0.843	1.186	0.001

Internal Standard = 1 ug/mL

Pollutant Compounds = 0.02, 0.05, 0.10, 0.50, 1.00 ug/mL

NETDO. 02

Analyzed: 03/25/99 1605
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0734

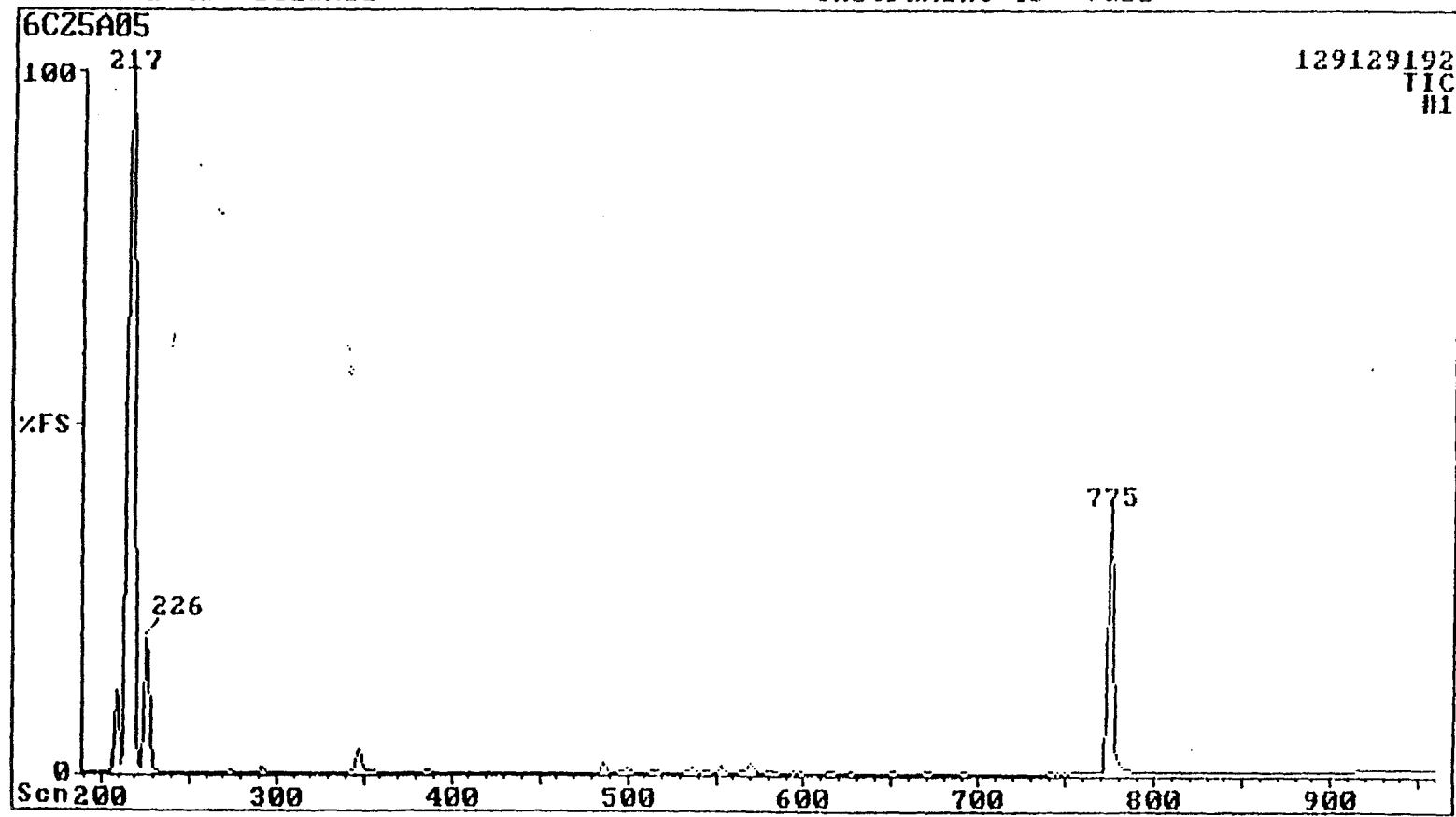
Raw Datafile : 6025405
Find DE : NNDMA

Quan DB : 6C25A05
Scan DB : NONE

Spectrum Scan					Peak		Scan		GM	Compound Name
No.	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred		
1	100	89	100	1	142039503	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	96	100	0	40828079	b?	226	226	80	N-Nitrosodimethylamine-d6
3	74	59	72	-1	666664	bb	229	230	74	N-Nitrosodimethylamine

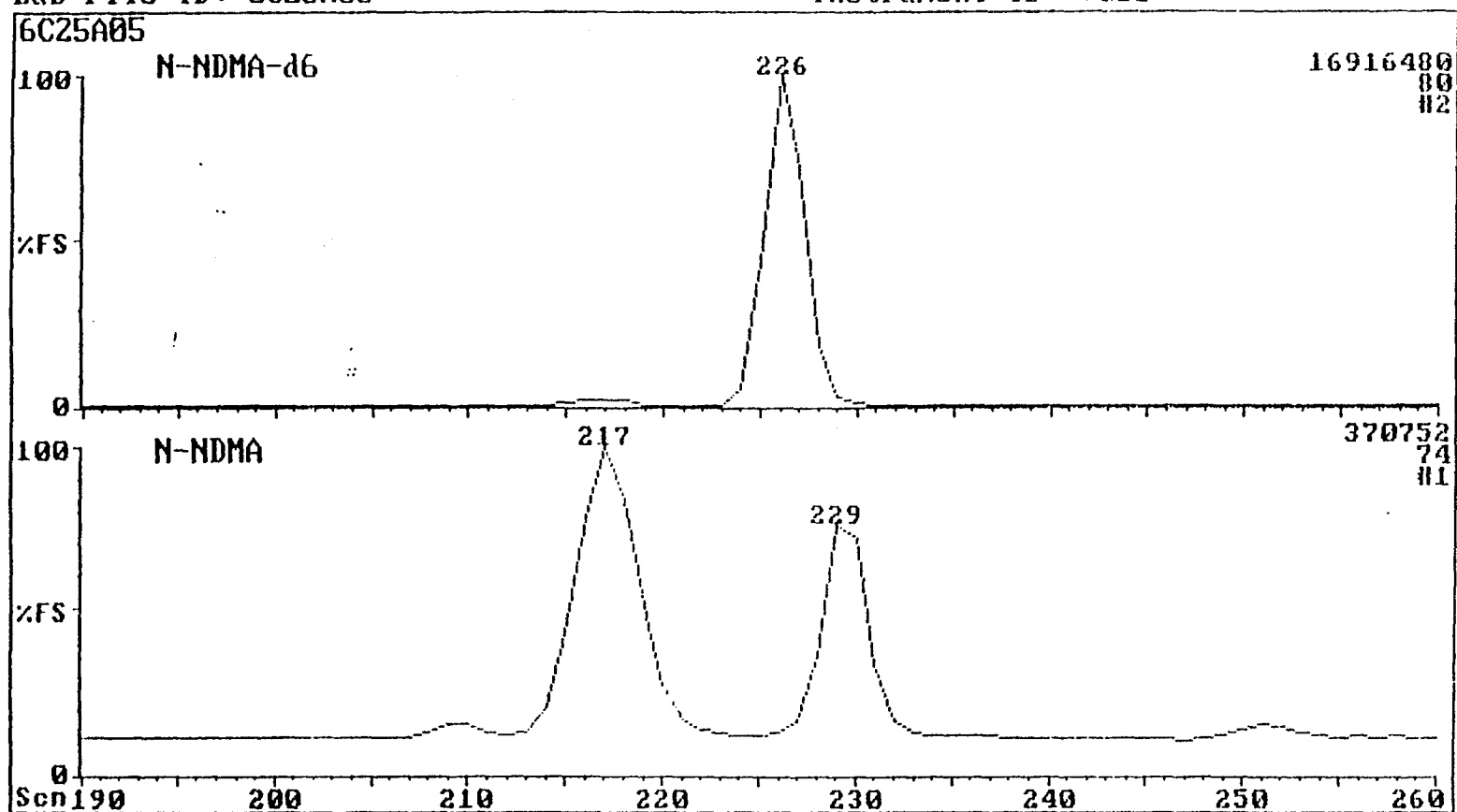
Sample No.: 0.02 PPM STD
Lab File ID: 6C25A05

Analyzed: 03/25/99 1605
Instrument ID: VG06



Sample No.: 0.02 PPM STD
Lab File ID: 6C25A05

Analyzed: 03/25/99 1605
Instrument ID: VG06



Sample: 0.05 PPM STD NSTDO.05 Analyzed: 03/25/99 1646
 Lab File: 6C25A06 Instrument ID: 06

=====

Interim Report LAB-BASE FIND 03/26/99 0734

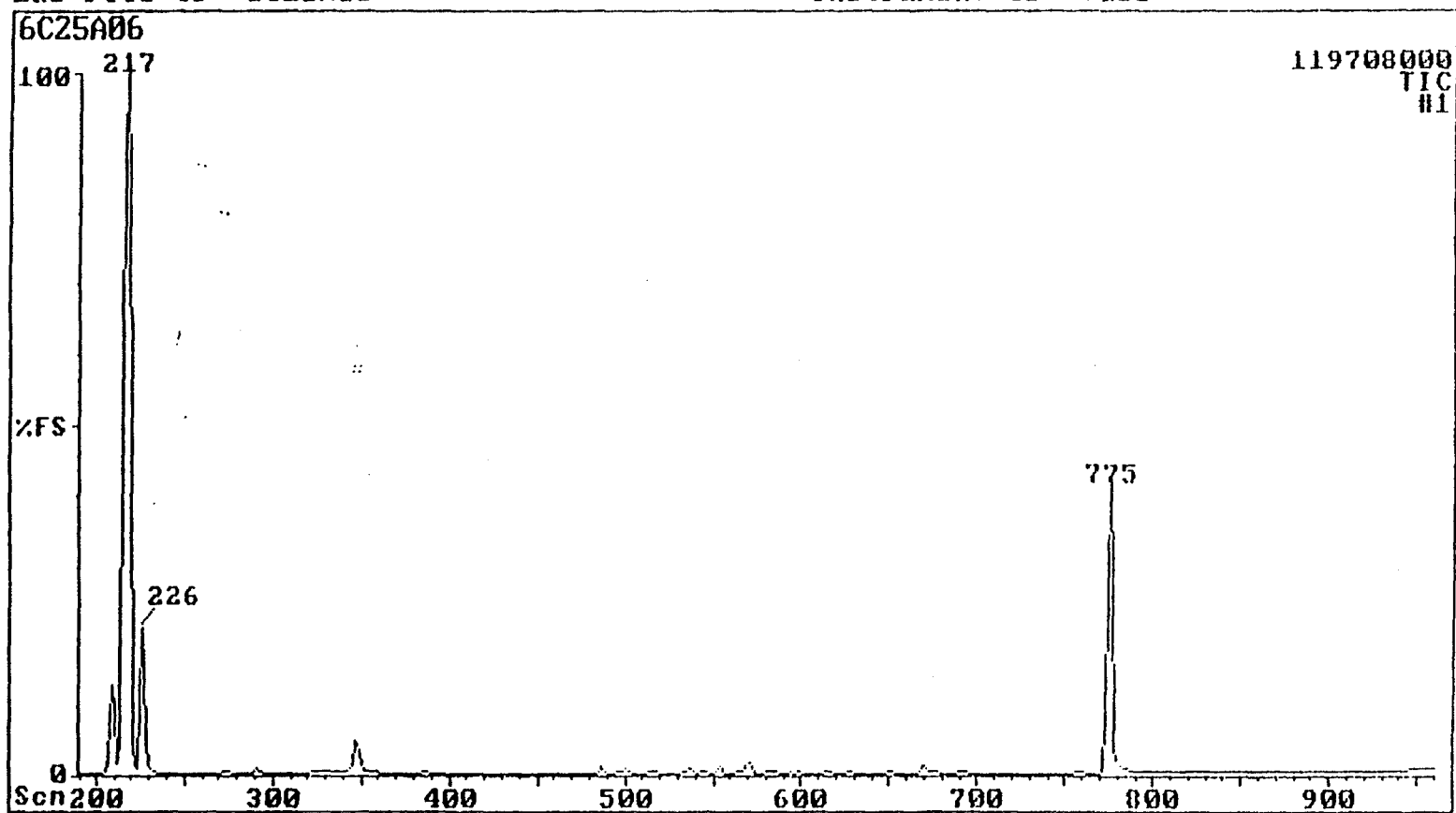
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Raw Datafile : 6C25A06 Quan DB : 6C25A06
 Find DB : NNDMA Scan DB : NONE

No.	MAT	Spectrum	Scan	Diff	Peak	Area	Flgs	Found	Pred	QM	Compound Name
1	100	90	100	1	135675981	b?		775	774	190	2,2'-Difluorobiphenyl
2	100	96	99	0	40050321	b?		226	226	80	N-Nitrosodimethylamine-d6
3	97	64	97	-1	1707320	b?		229	230	74	N-Nitrosodimethylamine

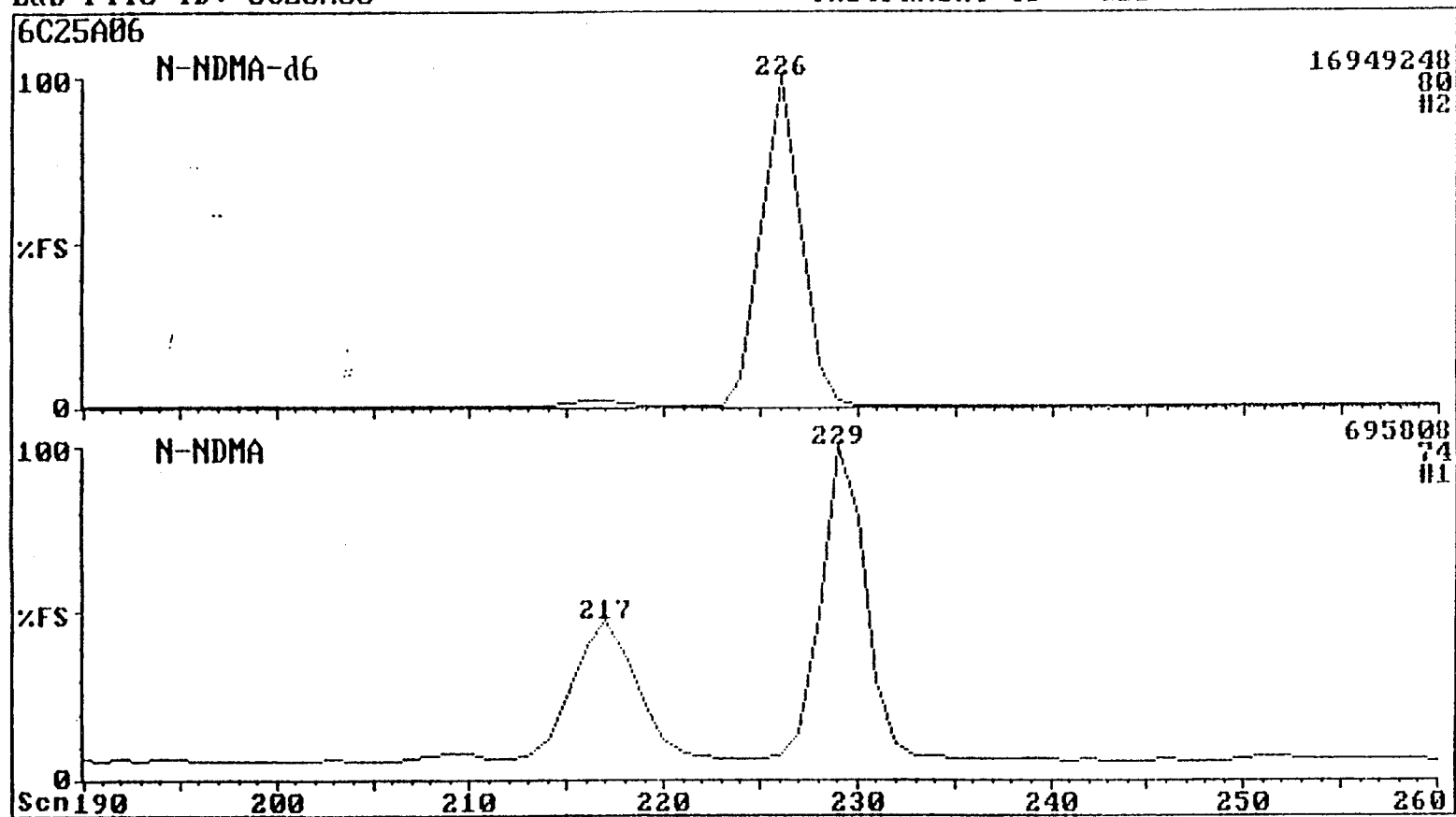
Sample No.: 0.05 PPM STD
Lab File ID: 6C25A06

Analyzed: 03/25/99 1646
Instrument ID: VG06



Sample No.: 0.05 PPM STD
Lab File ID: 6C25A06

Analyzed: 03/25/99 1646
Instrument ID: VG06



Sample: 0.10 PPM STD
Lab File: 6025A07

NSTD0.10

Analyzed: 03/25/99 1728
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0735

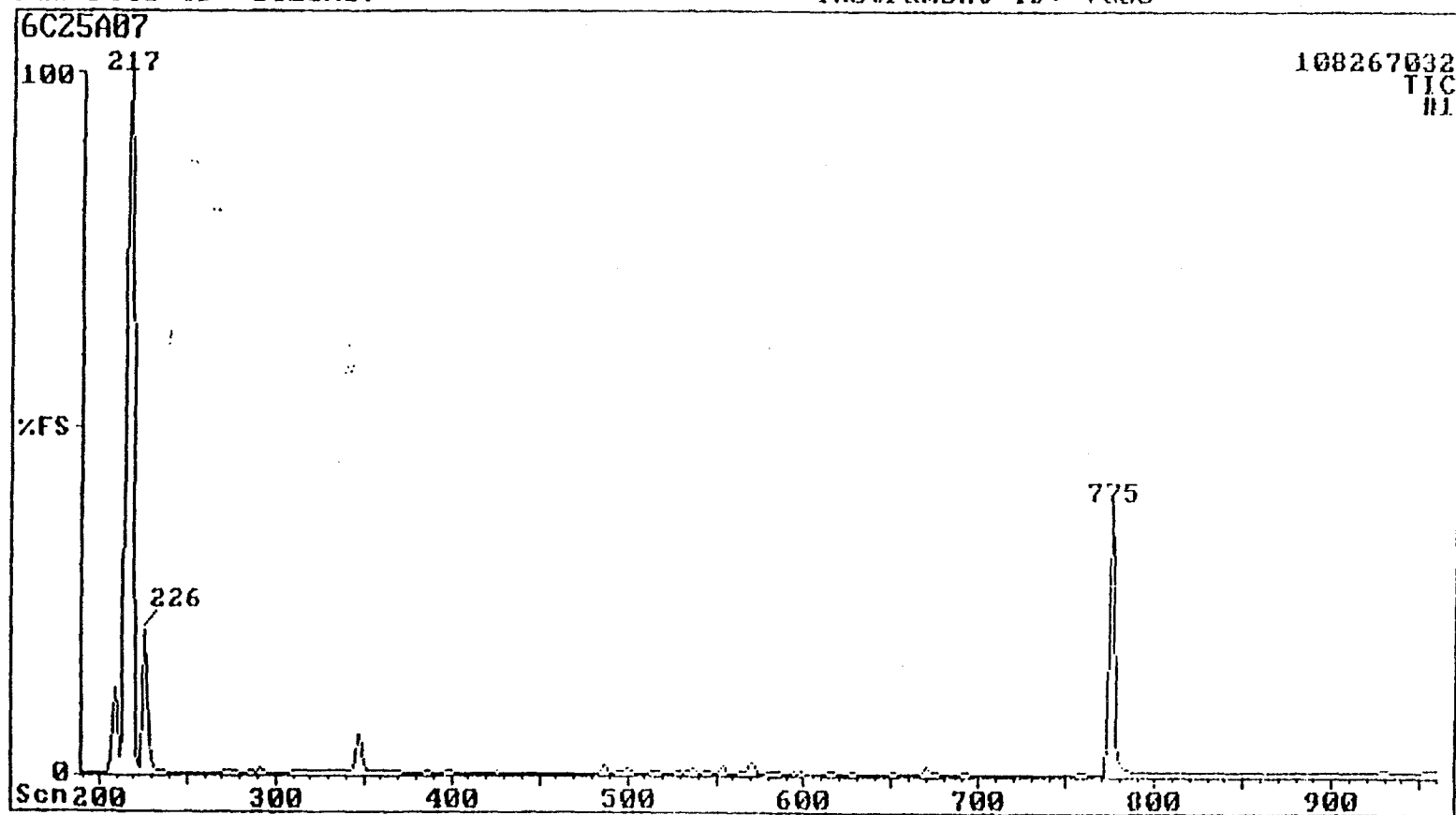
Raw Datafile : 6025A07
Find DB : NNDMA

Quan DB : 6025A07
Scan DB : NONE

Spectrum Scan					Peak		Scan				QM	Compound Name
No.	MAT	FOR	REV	Diff	Area	Flgs	Found	Pred				
1	100	90	100	1	119506948	b?	775	774	190	2,2'-Difluorobiphenyl		
2	100	95	99	0	34497449	b?	226	226	80	N-Nitrosodimethylamine-d6		
3	100	77	98	-1	2860496	b?	227	230	74	N-Nitrosodimethylamine		

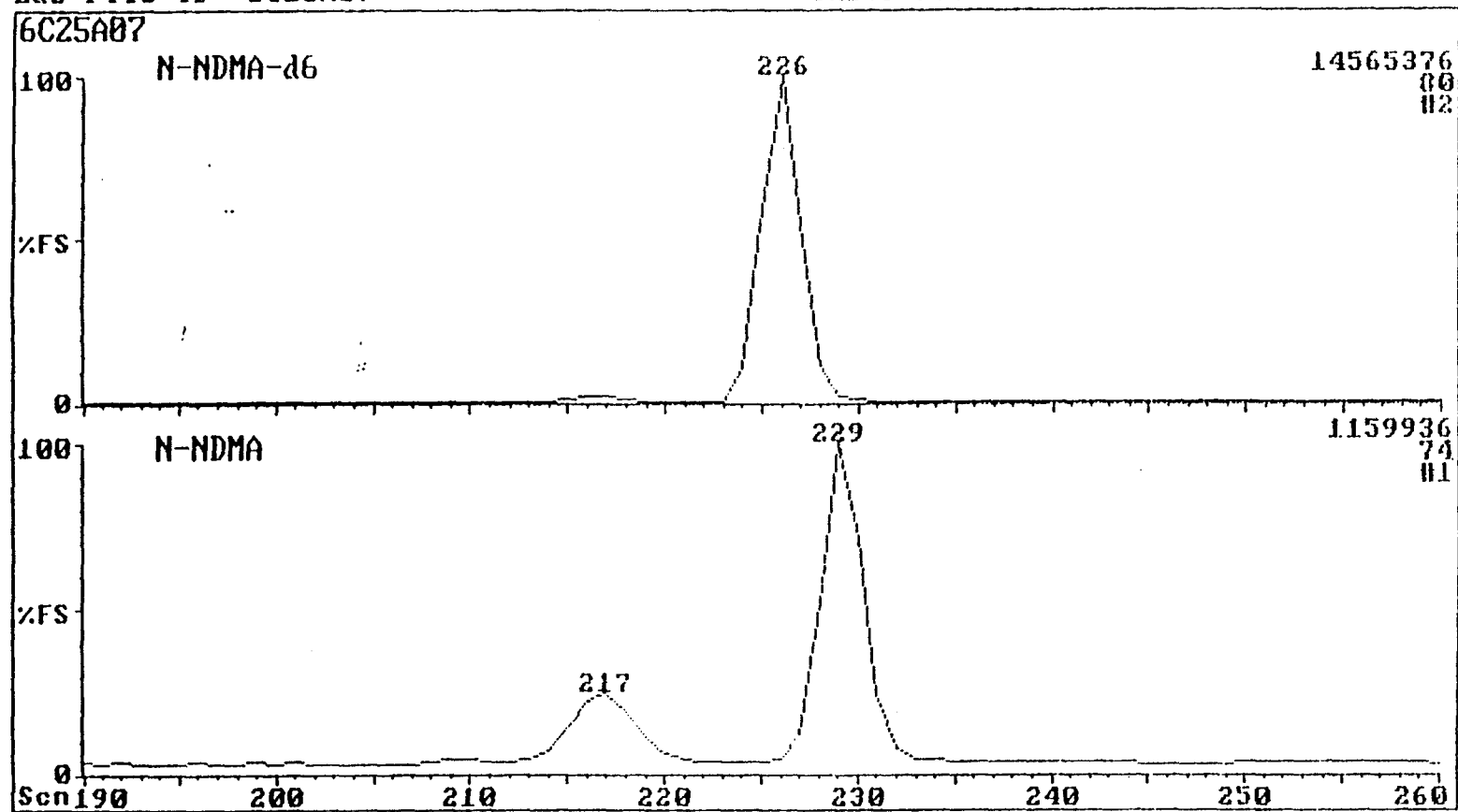
Sample No.: 0.10 PPM STD
Lab File ID: 6C25A07

Analyzed: 03/25/99 1728
Instrument ID: VG06



Sample No.: 0.10 PPM STD
Lab File ID: 6C25A07

Analyzed: 03/25/99 1728
Instrument ID: VG06



Sample: 0.50 PPM STD
Lab File: 6025A08

NSTD0.50

Analyzed: 03/25/99 1810
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0736

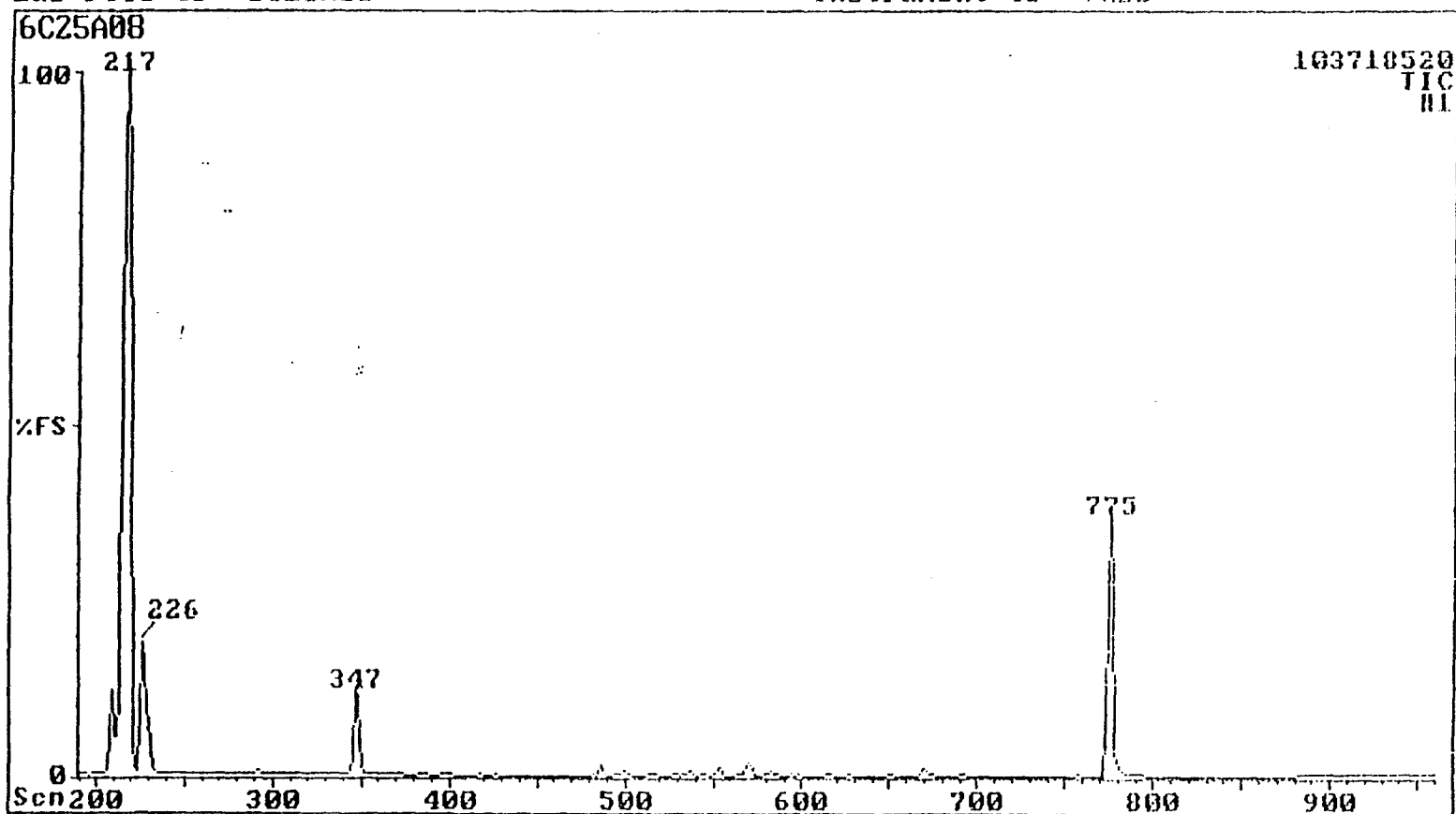
Raw Datafile : 6025A08
Find DB : NNDMA

Quan DB : 6025A08
Scan DB : NONE

No.	MAT	FOR	REV	Diff	Peak Area Flgs	Scan Found	Pred	QM	Compound Name
1	100	90	100	1	108040581 b?	775	774	190	2,2'-Difluorobiphenyl
2	100	95	100	0	30969823 b?	226	226	80	N-Nitrosodimethylamine-d6
3	100	91	99	-1	12998048 b?	229	230	74	N-Nitrosodimethylamine

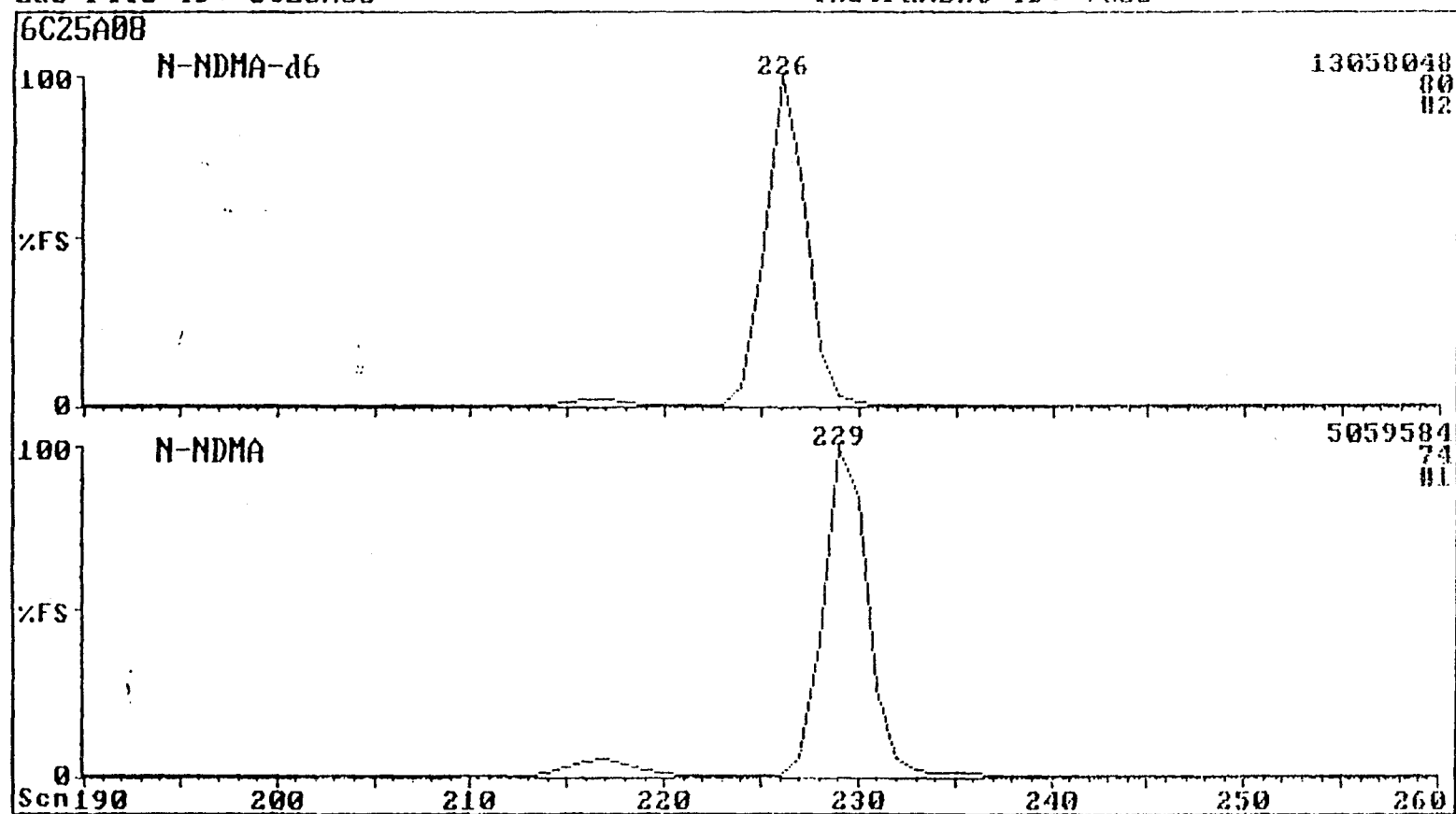
Sample No.: 0.50 PPM STD
Lab File ID: 6C25A08

Analyzed: 03/25/99 1010
Instrument ID: VG06



Sample No.: 0.50 PPM STD
Lab File ID: 6C25A008

Analyzed: 03/25/99 1010
Instrument ID: VG05



Sample: 1.00 PPM STD NSTD1.00 Analyzed: 03/25/99 1852
 Lab File: 6C25A09 Instrument ID: 06

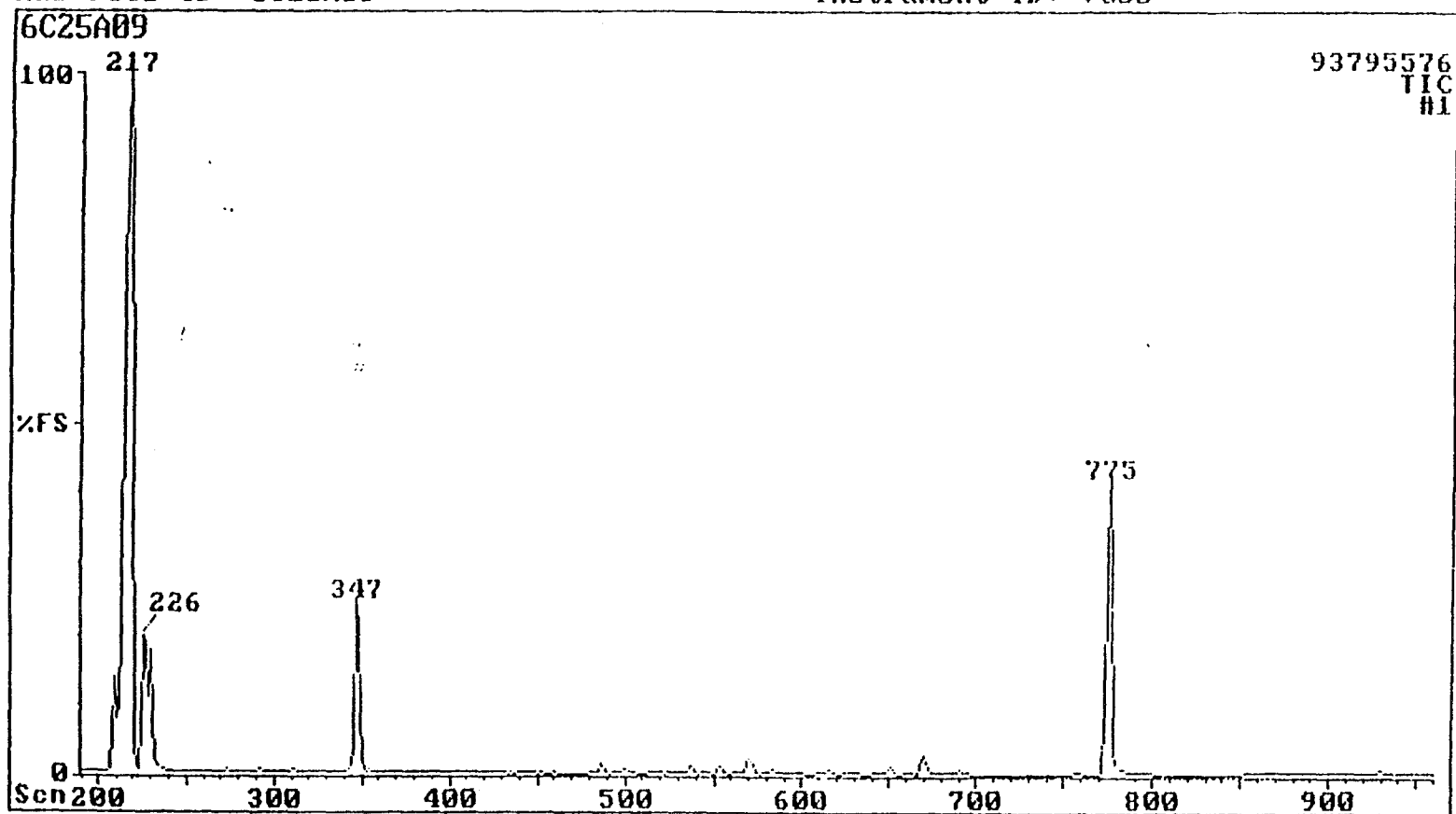
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 Interim Report LAB-BASE FIND 03/25/99 0737
 =====

Raw Datafile : 6C25A09 Quan DB : 6C25A09
 Find DB : NNDMA Scan DB : NONE

No.	Spectrum Scan				Peak	Scan		QM Compound Name	
	MAT	FOR	REV	Diff	Area Flgs	Found	Pred		
1	100	90	100	1	107364121	b?	775	774	190 2,2'-Difluorobiphenyl
2	100	95	100	0	30106551	b?	226	226	80 N-Nitrosodimethylamine-d6
3	100	95	99	-1	25386272	b?	229	230	74 N-Nitrosodimethylamine

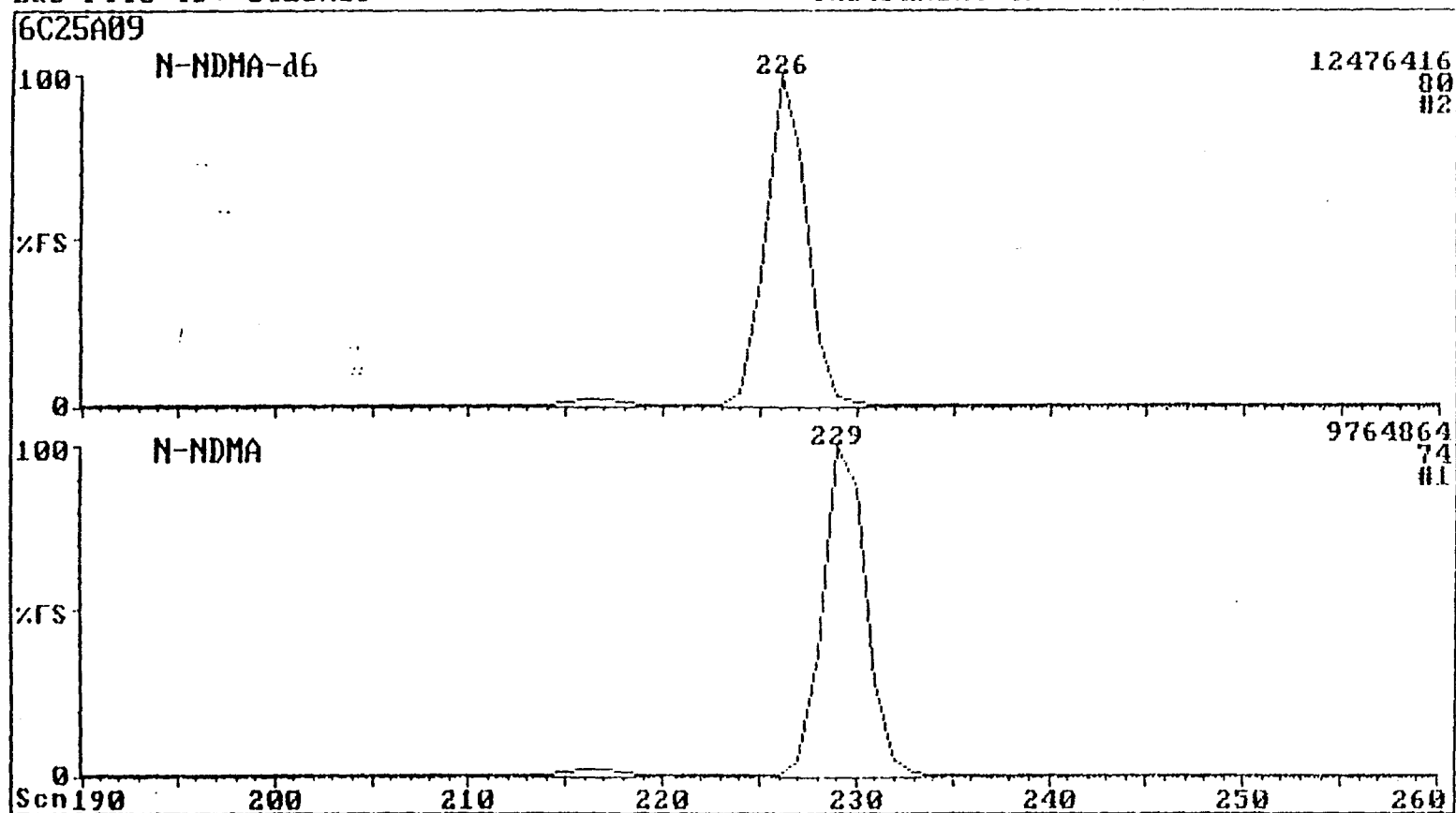
Sample No.: 1.00 PPM STD
Lab File ID: 6C25A09

Analyzed: 03/25/99 1852
Instrument ID: VG06



Sample No.: 1.00 PPM STD
Lab File ID: 6C25A09

Analyzed: 03/25/99 1052
Instrument ID: VG06



ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

P&R D15

Lab Name: PACIFIC ANALYTICAL, INC.

Lab Sample ID: P&R D15

Matrix: WATER

Lab File ID: 6C25A10

Sample wt/vol: 1000 ml

Date Sampled:

Concentrated Extract Volume: 1000 ul

Date Extracted: 03/24/99

Injection Volume: 1 ul

Date Analyzed: 03/25/99

GPC Cleanup: N/A

Time Analyzed: 1933

Fraction: Combined

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.06		87 %

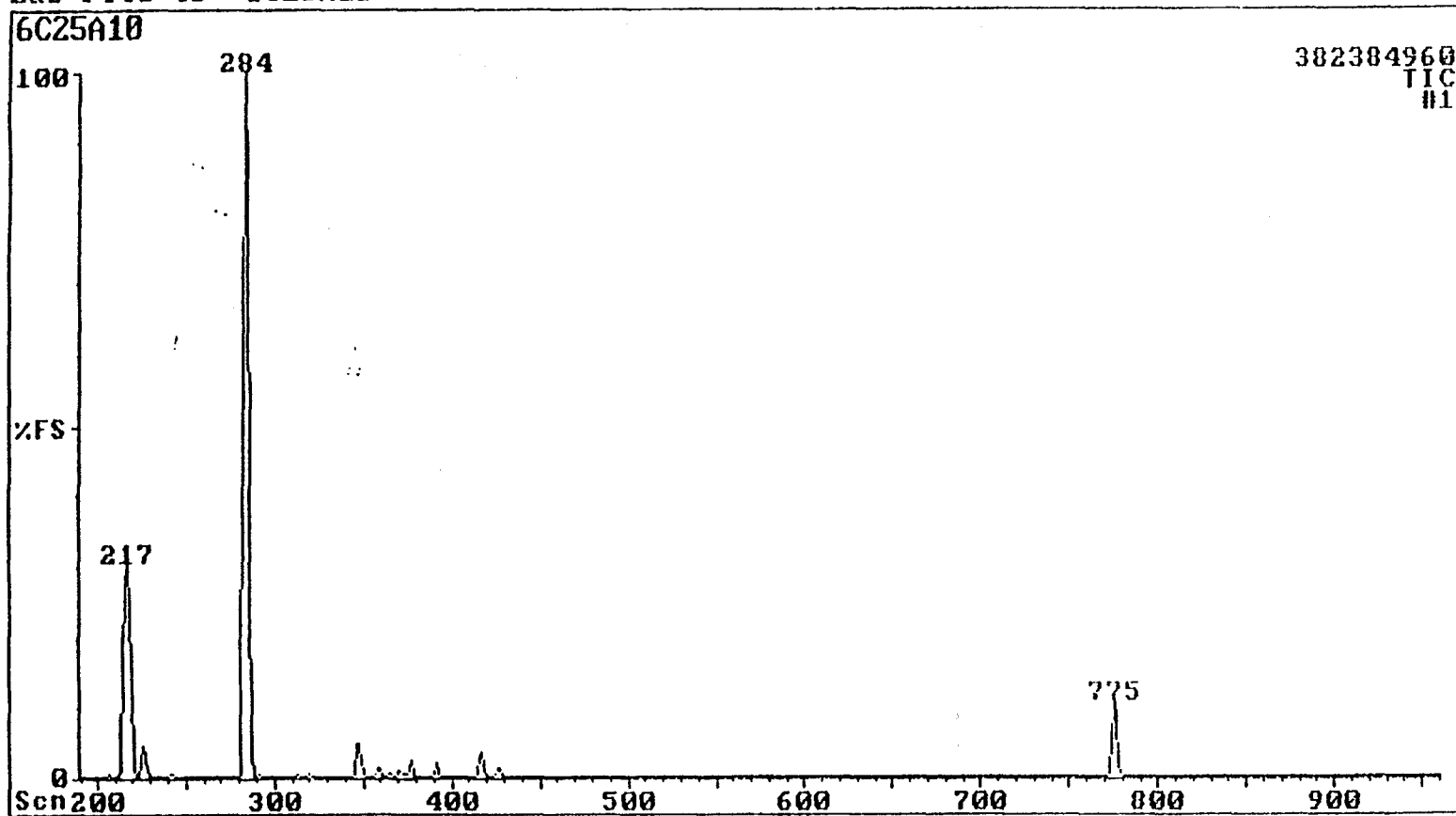
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

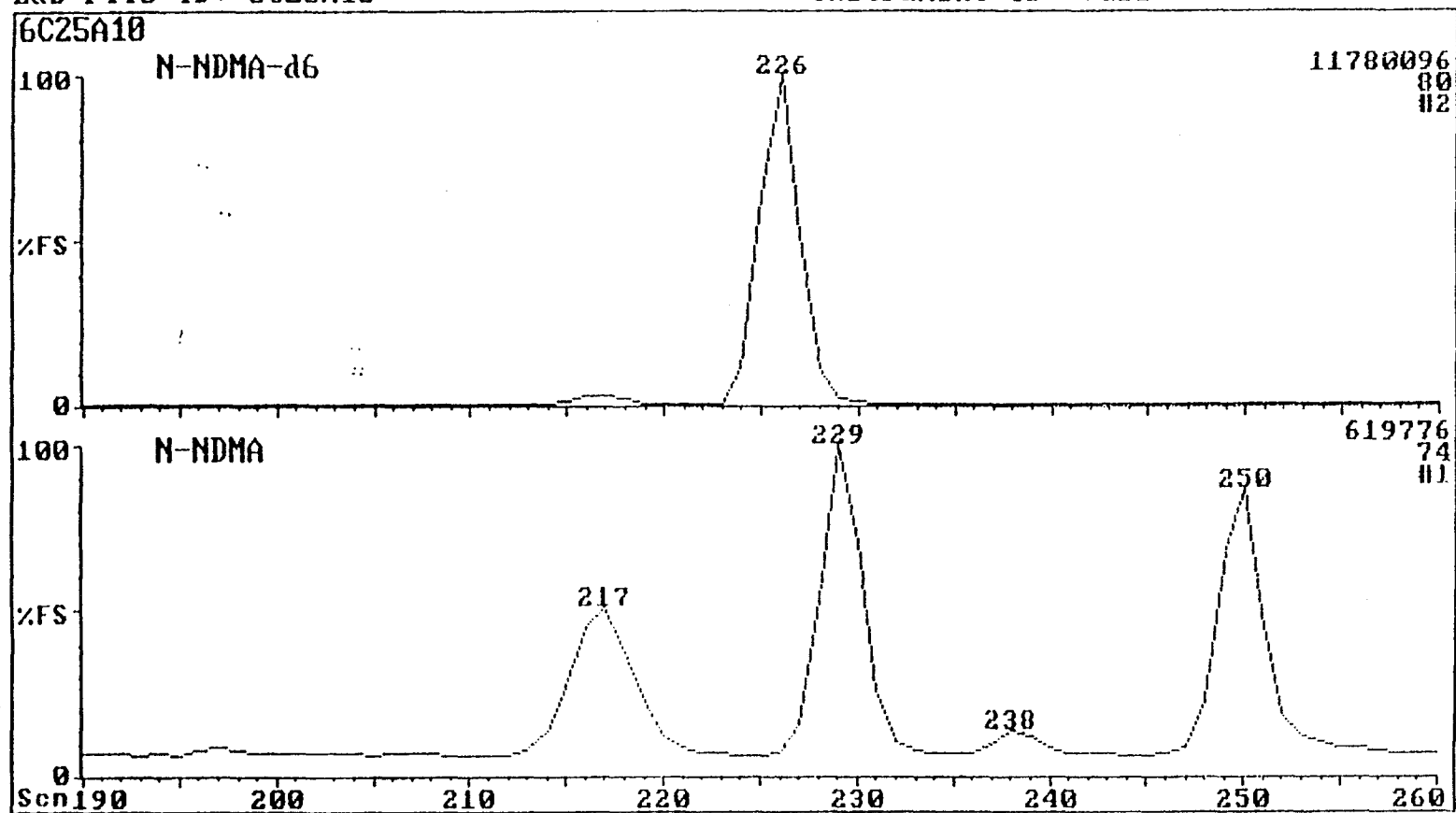
Sample No.: P&R D15
Lab File ID: 6C25A10

Analyzed: 03/25/99 1933
Instrument ID: VG06



Sample No.: P&R D15
Lab File ID: 6C25A10

Analyzed: 03/25/99 1933
Instrument ID: VG06



Sample: P&R D15 P&R D15 Analyzed: 03/25/99 1933
 Lab File: 6C25A10 Instrument ID: 06

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Interim Report	LAB-BASE FIND	03/26/99	0808
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Raw Datafile : 6C25A10 Guan DB : 6C25A10
 Find EB : NNEMA Scan DB : NONE

No.	Spectrum Scan				Peak Area Flgs	Found	Scan		QM	Compound Name
	MAT	FOR	REV	Diff			Pred			
1	100	91	100	1	112646127	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	94	99	0	25230000	b?	326	226	80	N-Nitrosodimethylamine-d6
3	100	69	97	-1	1471104	b?	229	230	74	N-Nitrosodimethylamine

On-going Accuracy (P&R) Check

=====

EPA Name: P&R D15	Lab ID: P&R D15	Lab File: 6C25A1
Instr: 06	ICAL: 6C25	Acquisition Date: 03/25/99 Acquisition Time: 1933

=====

Compound	Target Conc.	Rec.	Label Rec.	Limits
N-Nitrosodimethylamine	0.06	61.77	86.6	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

B9052

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: 9052
Lab File ID: 6C25A12
Date Sampled:
Date Extracted: 03/24/99
Date Analyzed: 03/25/99
Time Analyzed: 2057

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	58 %

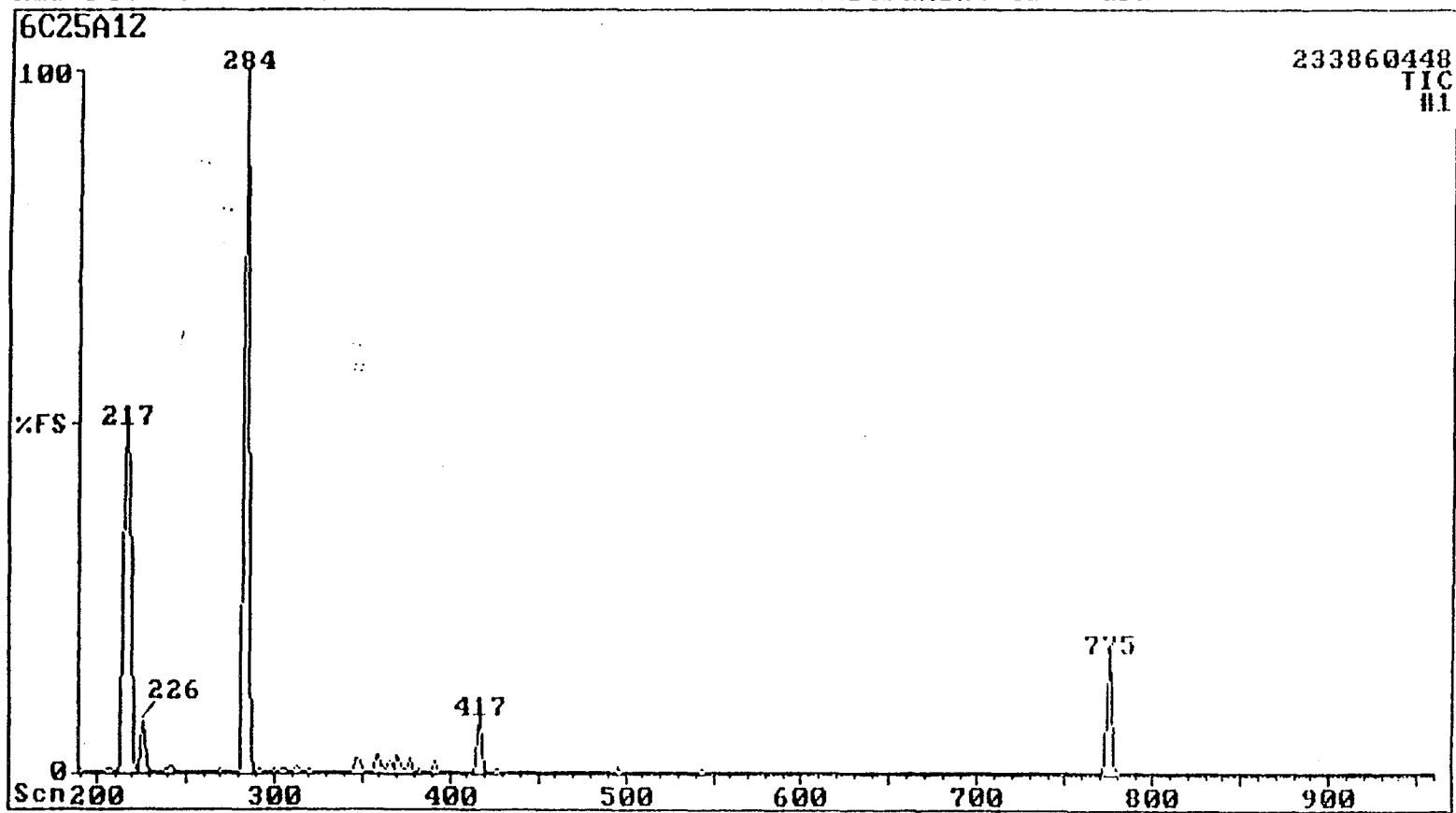
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

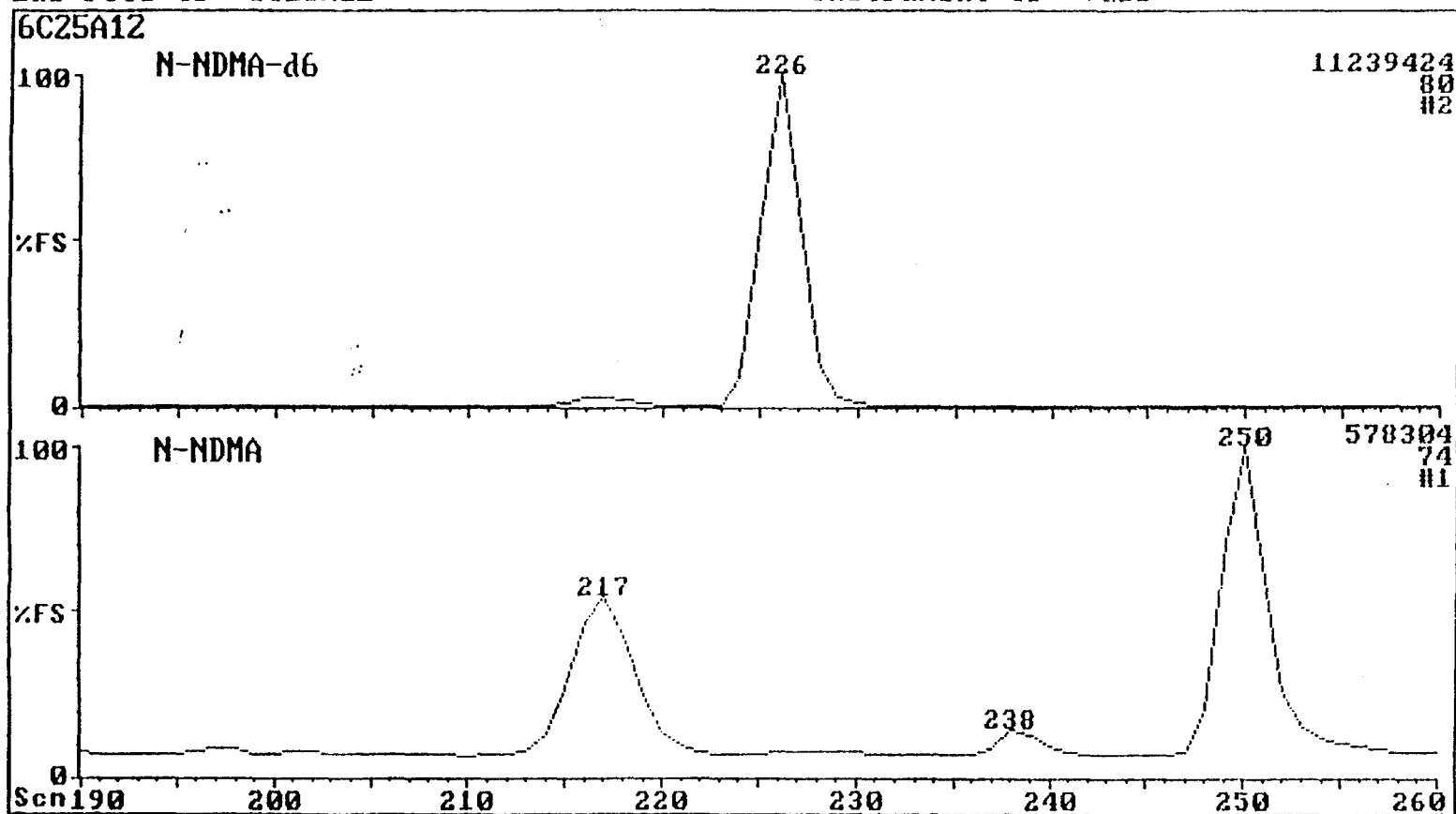
Sample No.: B9052
Lab File ID: 6C25A12

Analyzed: 03/25/99 2057
Instrument ID: VG06



Sample No.: B9052
Lab File ID: 6C25A12

Analyzed: 03/25/99 2057
Instrument ID: VG06



Sample: B9052 9052 Analyzed: 03/25/99 2057
 Lab File: 6025A12 Instrument ID: 06

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Interim Report	LAB-BASE FIND	03/26/99	0810
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Raw Datafile : 6025A12 Quan DB : 6025A12
 Find DB : NNDMA Scan DB : NONE

No.	Spectrum Scan				Peak Area	Flgs	Scan		GM	Compound Name
	MAT	FDR	REV	Diff			Found	Pred		
1	100	90	100	1	105356868	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	95	99	0	26823649	b?	226	226	80	N-Nitrosodimethylamine-d6
3	70	32	80	-1	12704	!!	229	230	74	N-Nitrosodimethylamine
	47	20	88	2	107296	!!	238			

Quantitation Results

=====

EPA Name: B9052	Lab ID: 9052	Lab File: 6C25A12
Instr: 06	ICAL: 6C25	Acquisition Date: 03/25/99 Acquisition Time: 2057

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	28.0	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

B9053

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: 9053
Lab File ID: 6C25A13
Date Sampled:
Date Extracted: 03/24/99
Date Analyzed: 03/25/99
Time Analyzed: 2138

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	91 %

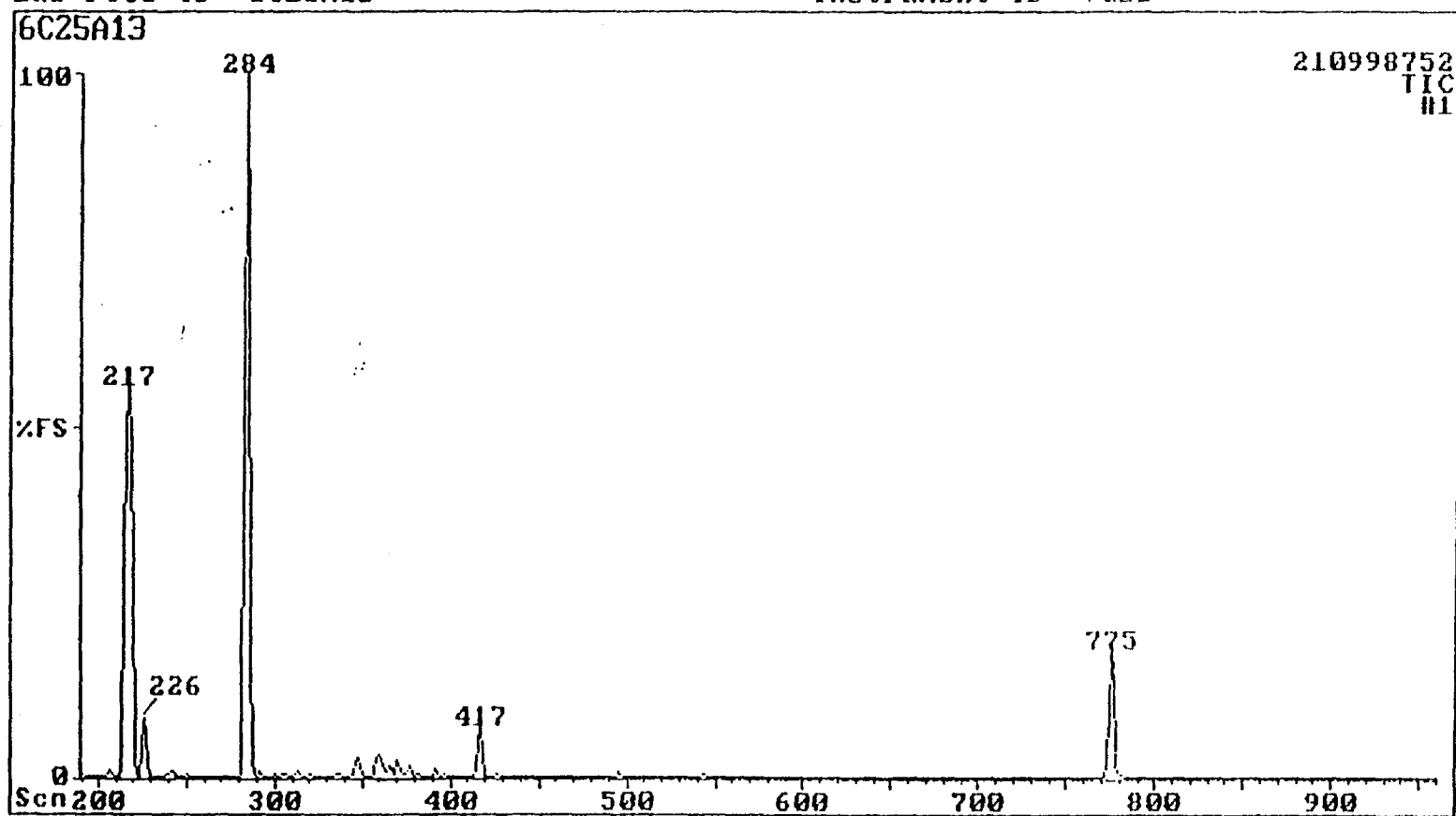
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

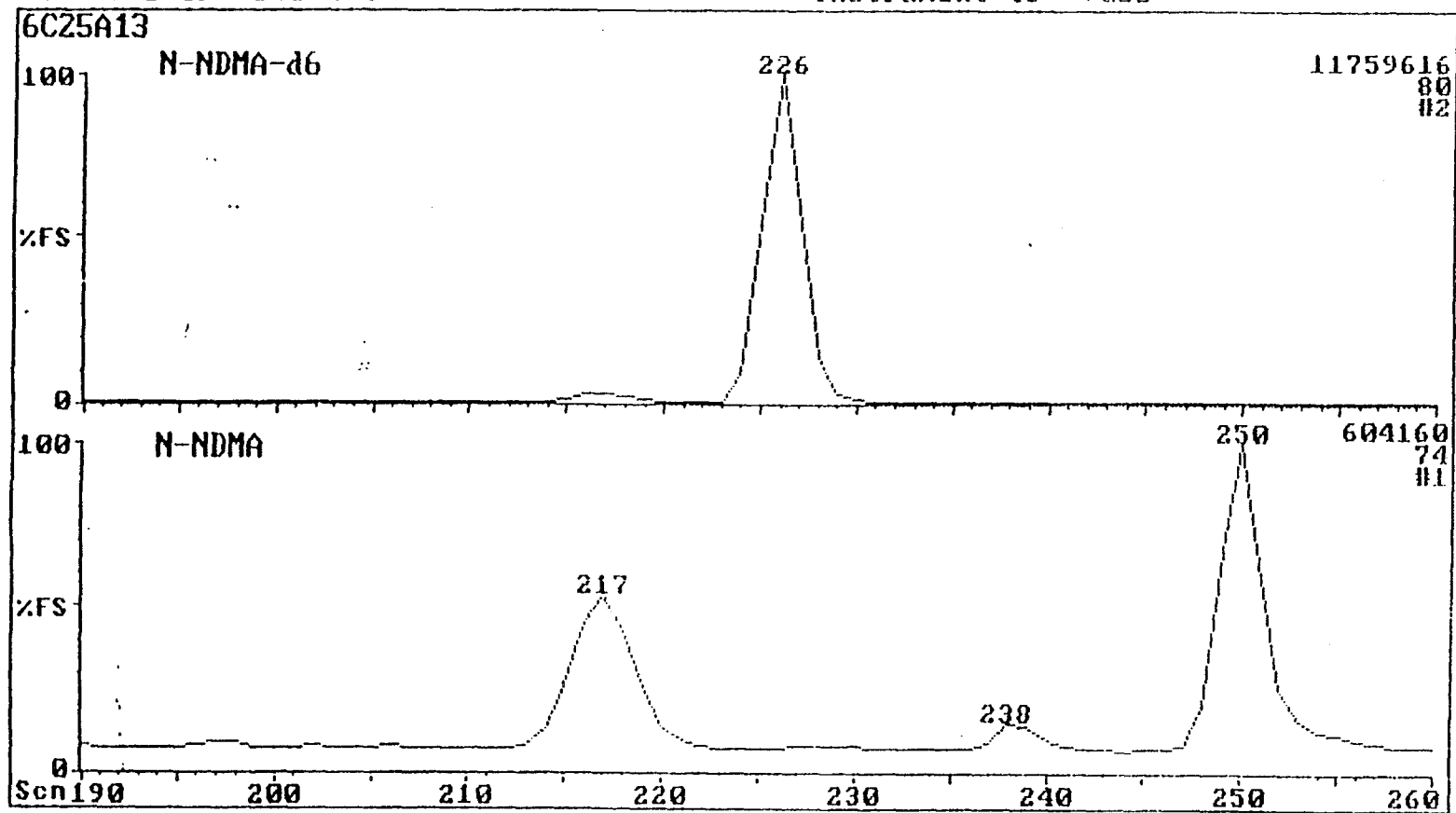
Sample No.: B9053
Lab File ID: 6C25A13

Analyzed: 03/25/99 2130
Instrument ID: VG06



Sample No.: B9053
Lab File ID: 6C25A13

Analyzed: 03/25/99 2138
Instrument ID: VG06



Sample: B9053 9053 Analyzed: 03/25/99 2136
 Lab File: 6C25A13 Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	0811
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=====

Raw Datafile : 6C25A13 Quan DB : 6C25A13
 Find DB : NNDMA Scan DB : NONE

No.	Spectrum Scan				Peak	Scan		QM Compound Name	
	KAT	FOR	REV	Diff	Area Flgs	Found	Pred		
1	100	90	100	1	106390168	b?	775	774	190 2,2'-Difluorobiphenyl
2	100	95	99	0	27980591	b?	226	226	80 N-Nitrosodimethylamine-d6
3	69	36	79	0	17237	!!	230	230	74 N-Nitrosodimethylamine
	47	20	89	8	129840	b?	238		

Quantitation Results

=====

EPA Name: B9053	Lab ID: 9053	Lab File: 6C25A1
Instr: 06	ICAL: 6025	Acquisition Date: 03/25/99 Acquisition Time: 2138

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	90.9	25 - 175

Pacific Analytical
GC/MS SEMI-VOLATILES
RUN LOG

Instrument: V606

Page: 362

Cal File: 6C25

Date: 3/25/99

Notes: P 74, P82, P80, P81 NNDMA
Tune Par: SIR=5.0, SEC=100, SF1=14, SF3=210, QL=6.0, QA=10.9, DM=700
SEE=70, SF2=21.0, SF4=21, QIE=1.5, QIR=1.0

GC Par: 40002.5min, 15%/min to 280 Hold 15min

Taped	Sample ID	File Name	OK	Description	OP
		6C25A01		Warm-up	CB
		02			
		03			
		04			
	NSSTD0.02	05		0.02 ug/ml NNDMA + Dioxane + ICL	
	NSSTD0.05	06		0.05	
	NSSTD0.10	07		0.10	
	NSSTD0.50	08		0.50	
	NSSTD1.00	09		1.00	
	R&R D15	10			
	P&R D5dup	11			
	9052	12			
	9053	13			
	P8201	14			
	P7401	15			
	P7402	16			
	P8001	17			
	P8002	18			
	P8003	19			
	P8004	20			
	P8101	21			
	P8102	22			
	NSSTD0.10	23		0.10 ug/ml NNDMA Daily	
	P8103	24			
	P8104	25			

06/21/93

Reviewed by: _____ on: _____

Page: 363

Cal File: 6C25

Date: 3/25/99

Notes: Same as Page 362

[illegible]

PACIFIC ANALYTICAL, INC.

*** SAMPLE RECEIPT LOG ***

PA JOB NUMBER: 19
(Sample Tracking Information)

JOB _____ TASK _____
(Invoice Information:

CUSTOMER: MONTGOMERY WATSON

RECEIVED BY: JLT JLT

REVISION DATE: 03/19/99

REVISION TIME: 10:39

CHAIN OF CUSTODY RECEIVED: Y

SHIPPER: FED EX
SHIPPER CODE: 414782664059

LAB SAMPLE NUMBER OF FIRST SAMPLE TO BE LOGGED IN: 97401

[illegible]

COMMENTS: 1 MEDIUM COOLER

**Montgomery Watson Laboratories**

555 East Walnut Street
Pasadena, CA 91101
Ph (626) 568-6400 Fax (626) 568-6324

Ship To **Steve Parsons**
Pacific Analytical, Inc
6349 Paseo del Lago
Carlsbad, CA 92009

(760) 438-3100

Date **03/18/99**

Submittal Form

DEB

52730

Reporting: One report for this MWL Project Number 52730

Do Not Combine Report with any other samples submitted under different MWL project numbers!

Report & Invoice must have the MWL Project Number and Sub PO#: 99-0340

Report all quality control data according to Method. Include dates analyzed, date extracted (if extracted) and Method reference on the report. Fax results to 626-568-6324. Faxed results must have complete data & QC. Hardcopy report is due in hand on due date. Please advise us immediately if Due Date will be missed.

If you have questions about these samples,
please call the MWL project manager

Debbie Frank

(626) 568-6449

this is a single report for one specific client. Please do not combine any other samples submitted by our lab in same report. Must be separate.

MWL
Project # 52730

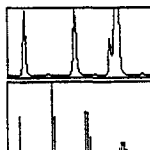
Report
Due: 4/2/99

**For Prompt Payment, please mail Hardcopy Report & Invoice to attention of
Martha Frost Montgomery Watson Laboratories 555 East Walnut St Pasadena CA 91101
even if your arrangements were made with the MWL project manager.**

Qty	Test Code	Use MWL Lab # for ID	Client Sample ID for reference only	Analysis Requested	Sample Date	Matrix	Container
1	CUSTOMMS DMA	99031434	MW-991-072	N-Nitrosodimethylamine (N-NDMA)	03/17/99	aq	2 1L amber glass / no preservative
1	CUSTOMMS DMA	990317435	MW-991-005	N-Nitrosodimethylamine (N-NDMA)	03/17/99	aq	2 1L amber glass / no preservative

Semi-Volatiles DATA SUMMARY PACKAGE

CLIENT: MONTGOMERY WATSON
JOB #: P74
DATE: MARCH 26, 1999



Pacific Analytical, Inc.

6349 Paseo Del Lago □ Carlsbad, CA 92009

(760) 438-3100



6349 Paseo Del Lago • Carlsbad, CA 92009
(760) 438-3100 • FAX (760) 931-9479

NARRATIVE REPORT
Method 1625C Semivolatiles

PA Reference: P74

03/26/99

Samples: MW-991-005, MW-991-072

Semivolatiles analysis:

The samples were extracted and analyzed by Method 1625C, modified for the lowest possible detection limits. A 1000 mL aliquot was spiked with 1.0 ug of deuterated N-Nitrosodimethylamine-d₆ and extracted with liquid-liquid extractors for 24 hours. The sample extract was concentrated to a final volume of 1.0 mL and then spiked with 1.0 ug of 2,2'-Difluorobiphenyl as an internal recovery standard. The extract was analyzed by GC/MS with the mass spectrometer operating in the "Specific Ion Mode" for greater sensitivity and lower detection limits. The instrument was calibrated with five initial calibration standards ranging from 0.02 ug/mL to 1.00 ug/mL. A recent minimum detection limit study suggests that the instrument is capable of detecting N-Nitrosodimethylamine (NNDMA) at 0.005 ug/mL. However for reporting purposes, our detection limit is 0.03 ug/mL which translates to a sample concentration of 0.03 ug/L.

On-Going Precision and Recovery

A laboratory blank (P&R) was spiked with 0.10 ug of NNDMA and its labeled analog, and extracted and analyzed like a sample for each analytical batch. Recoveries for NNDMA and its label were within method specified recovery limits.

Blank

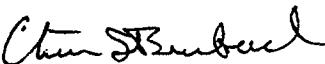
A laboratory blank was extracted and analyzed like the sample with each extraction batch. NNDMA was not detected at or above our report limit of 0.03 ug/L.

Samples

The samples MW-991-005 and MW-991-072 are clean with no NNDMA detected.

The data package consists of a summary page followed by a chromatogram and a close up of the extracted ion current profile of NNDMA and its label. This is followed by the raw data printout with areas and scan numbers, and finally a "Quantitation Results" page which lists extract concentrations in ug/mL.

Please contact Chris Burbach or Steve Parsons at (760) 438-3100 if there are any questions concerning this data package.


Chris Burbach
GC/MS Chemist

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

MW-991-005

Lab Name: PACIFIC ANALYTICAL, INC.	Lab Sample ID: P7401
Matrix: WATER	Lab File ID: 6C25A15
Sample wt/vol: 1000 ml	Date Sampled: 03/17/99
Concentrated Extract Volume: 1000 ul	Date Extracted: 03/24/99
Injection Volume: 1 ul	Date Analyzed: 03/25/99
GPC Cleanup: N/A	Time Analyzed: 2302
Fraction: Combined	

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	73 %

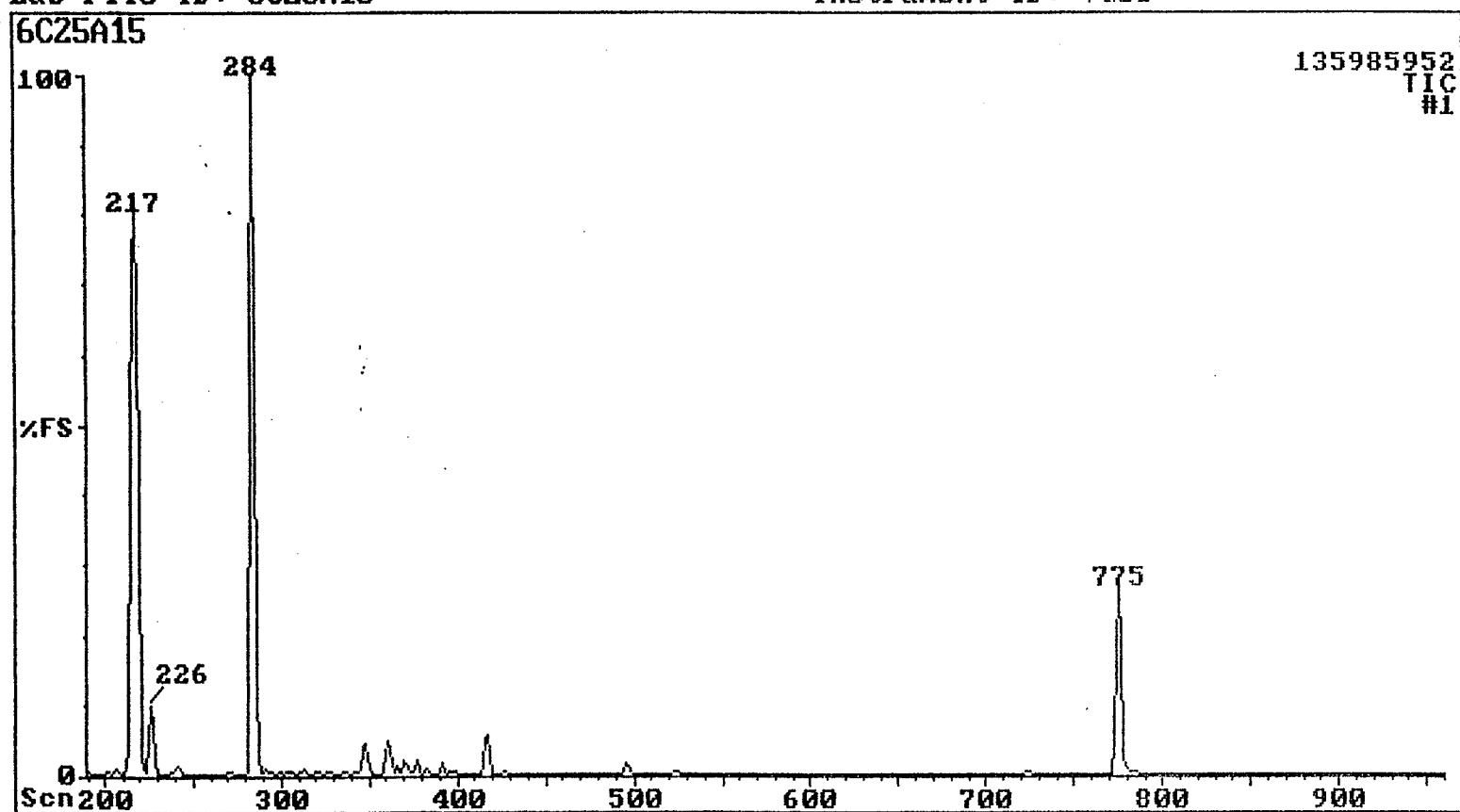
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

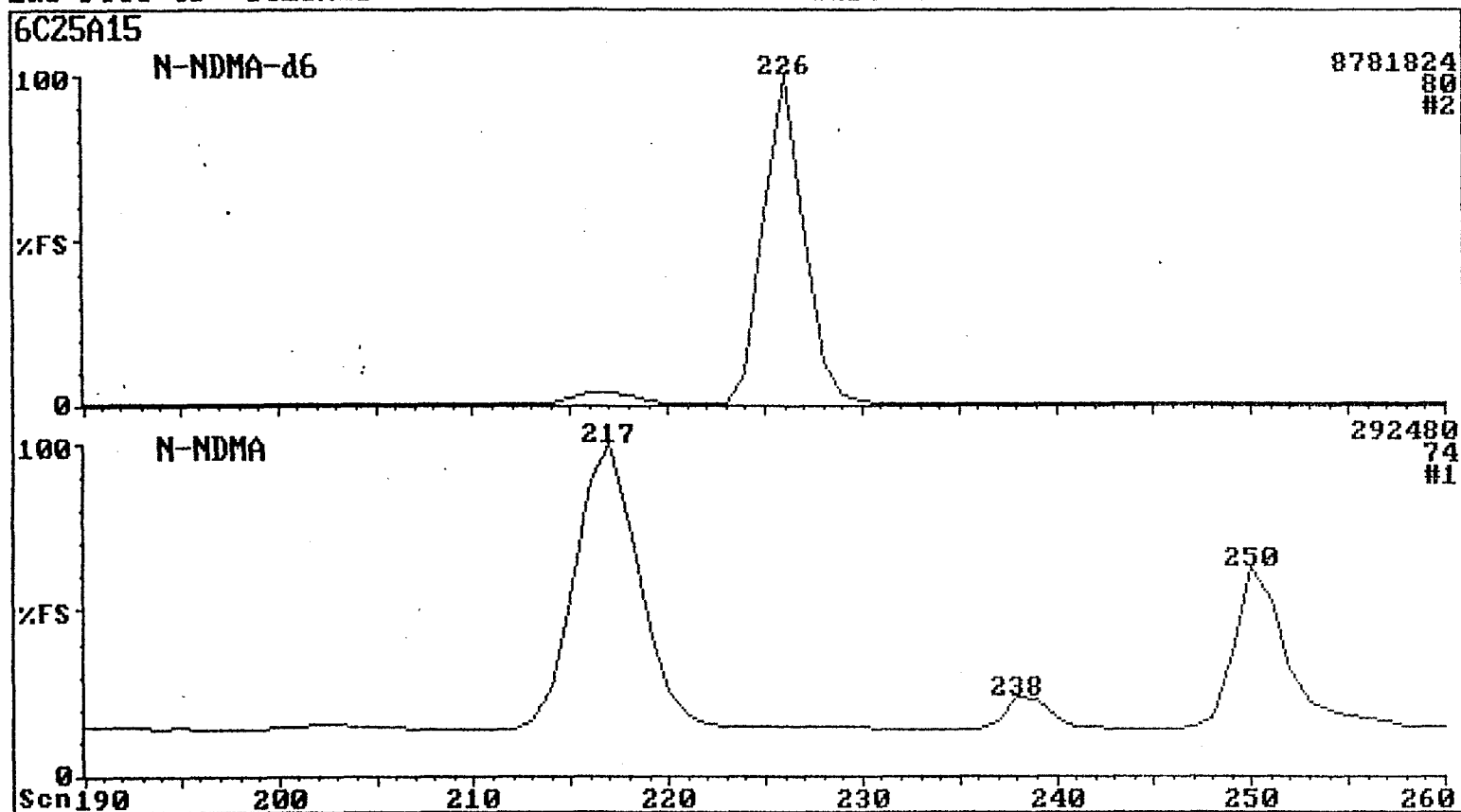
Sample No.: MW-991-005
Lab File ID: 6C25A15

Analyzed: 03/25/99 2302
Instrument ID: VG06



Sample No.: MW-991-005
Lab File ID: 6C25A15

Analyzed: 03/25/99 2302
Instrument ID: VG06



Sample: MW-991-005
Lab File: 6C25A15

P7401

Analyzed: 03/25/99 2302
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0813

Raw Datafile : 6C25A15
Find DB : NNDMA

Quan DB : 6C25A15
Scan DB : NONE

No.	MAT	FOR	REV	Diff	Peak Area Flgs	Scan Found	Pred	QM	Compound Name
1	100	90	100	1	98640841 b?	775	774 190	2,2'-Difluorobiphenyl	
2	100	94	99	0	20887689 b?	226	226 80	N-Nitrosodimethylamine-d6	
3	64	38	77	3	104 !!	233	230 74	N-Nitrosodimethylamine	
	47	22	88	8	79091 !!	238			

Quantitation Results

=====

EPA Name: MW-991-005	Lab ID: P7401	Lab File: 6C25A15
Instr: 06	ICAL: 6C25	Acquisition Date: 03/25/99 Acquisition Time: 2302

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	73.2	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

MW-991-072

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: P7402
Lab File ID: 6C25A16
Date Sampled: 03/17/99
Date Extracted: 03/24/99
Date Analyzed: 03/25/99
Time Analyzed: 2344

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	81 %

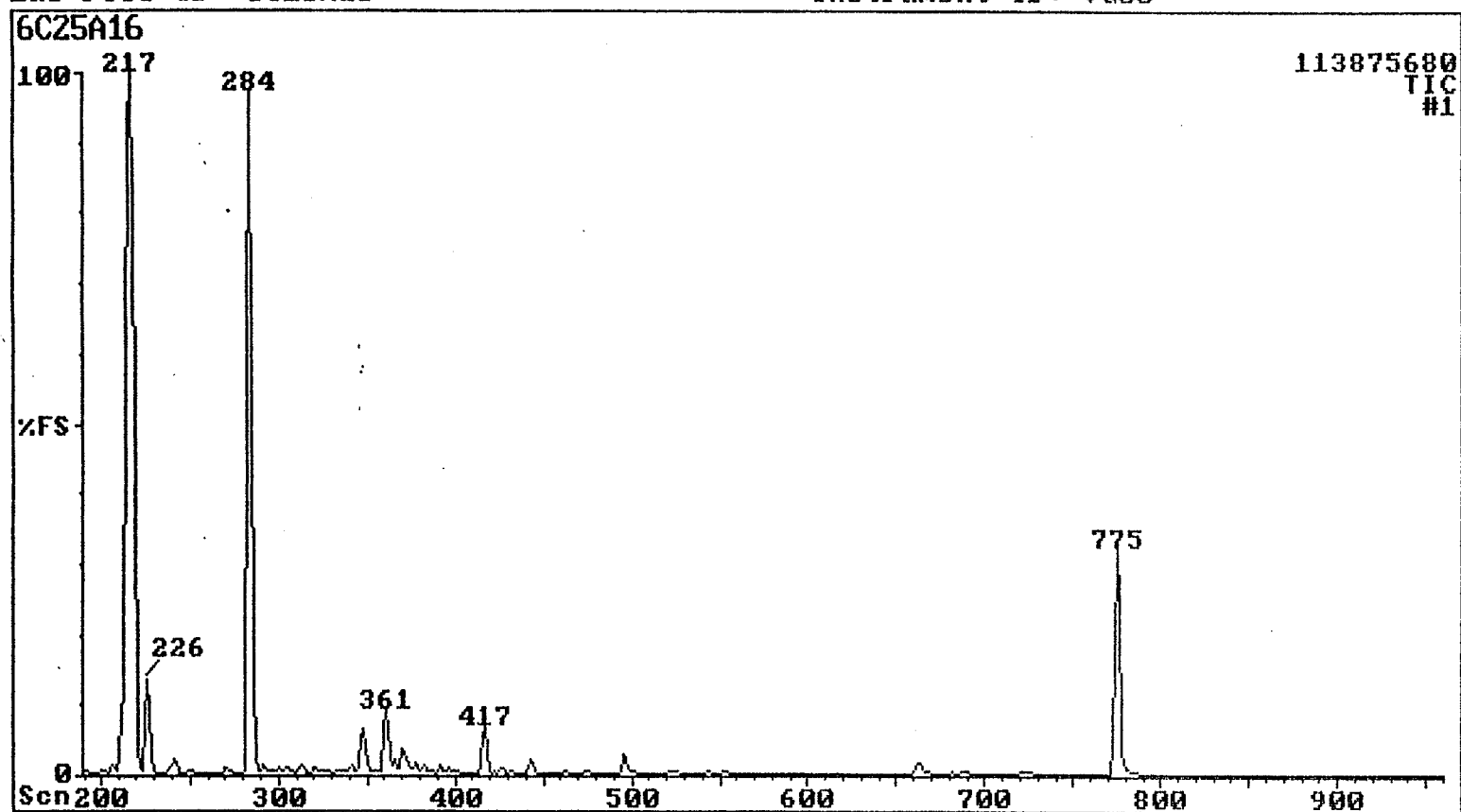
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

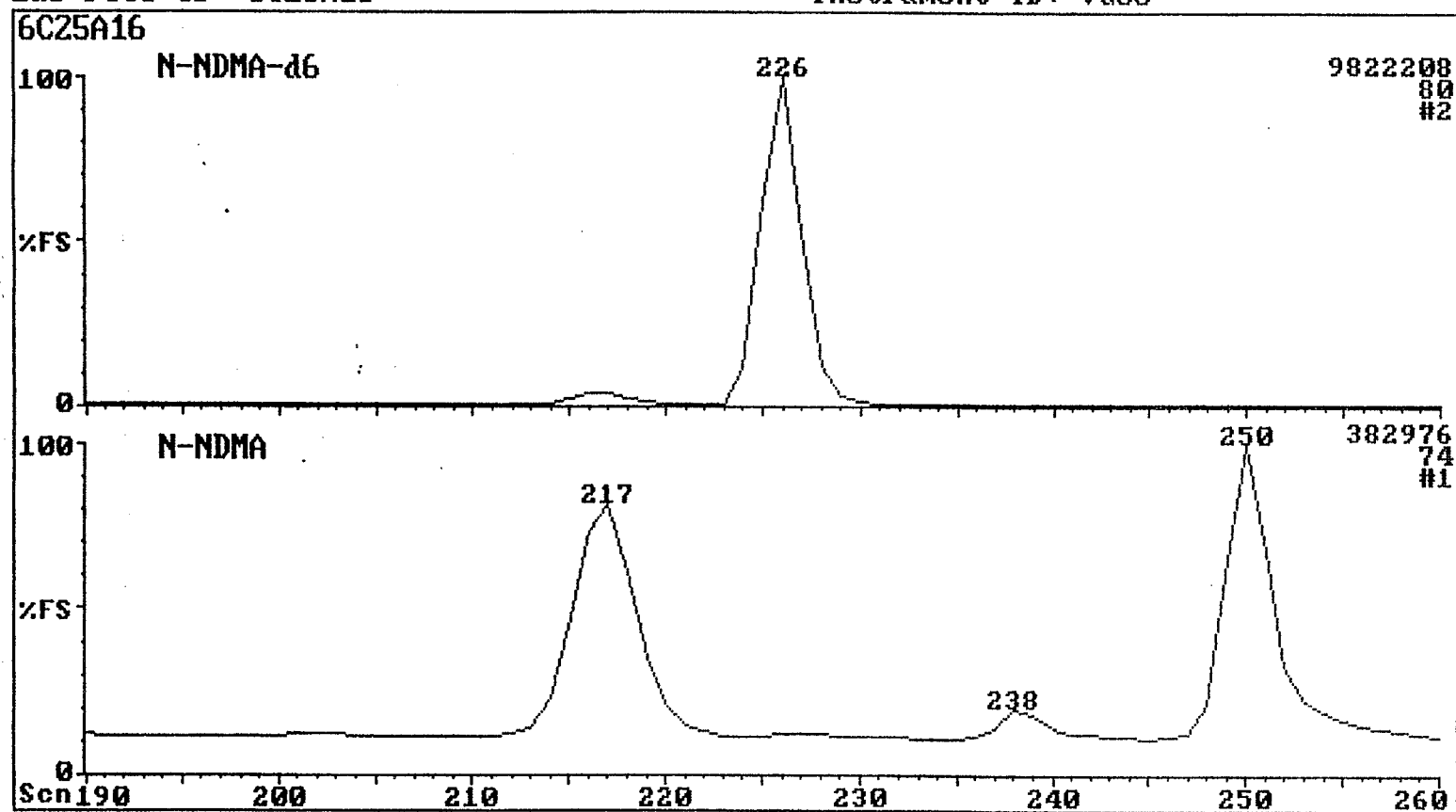
Sample No.: MW-991-072
Lab File ID: 6C25A16

Analyzed: 03/25/99 2344
Instrument ID: VG06



Sample No.: MW-991-072
Lab File ID: 6C25A16

Analyzed: 03/25/99 2344
Instrument ID: VG06



Sample: MW-991-072 F7402 Analyzed: 03/25/99 2344
 Lab File: 6C25A16 Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	0814
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=====

Raw Datafile : 6C25A16 Quan DB : 6C25A16
 Find DB : NNDMA Scan DB : NDNE

No.	Spectrum Scan				Peak	Scan		QM Compound Name	
	MAT	FOR	REV	Diff	Area Flgs	Found	Pred		
1	100	90	100	1	99817082	b?	775	774	190 2,2'-Difluorobiphenyl
2	100	94	99	0	23476552	b?	226	226	80 N-Nitrosodimethylamine-d6
3	66	37	78	3	664	!!	233	230	74 N-Nitrosodimethylamine
	53	33	84	8	91615	!!	238		

Quantitation Results

=====

EPA Name: MW-991-072	Lab ID: P7402	Lab File: 6C25A16
Instr: 06	ICAL: 6C25	Acquisition Date: 03/25/99 Acquisition Time: 2344

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	81.3	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
LABELED COMPOUNDS

Lab Name: PACIFIC ANALYTICAL

Instr. ID: VG06

Calibration Date: 03/25/99

LAB FILE IDs:

RF 0.02 = 6025A05

RF 0.05 = 6025A06

RF 0.10 = 6025A07

RF 0.50 = 6025A08

RF 1.00 = 6025A09

COMPOUND	RF 0.02	RF 0.05	RF 0.10	RF 0.50	RF 1.00	RF MEAN	% RSD
2 N-Nitrosodimethylamines-	0.287	0.295	0.289	0.295	0.280	0.289	2.1

Internal Standard = 1 ug/mL

Pollutant Compounds = 0.02, 0.05, 0.10, 0.50, 1.00 ug/mL

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
COMPOUNDS HAVING A LABELED REFERENCE

Lab Name: PACIFIC ANALYTICAL

Instr. ID: VG06

Calibration Date: 03/25/99

LAB FILE IDs:

RF 0.02 = 6C25A05
RF 0.05 = 6C25A06
RF 0.10 = 6C25A07
RF 0.50 = 6C25A08
RF 1.00 = 6C25A09

COMPOUND	RR 0.02	RR 0.05	RR 0.10	RR 0.50	RR 1.00	SLOPE	INTCP
3 N-Nitrosodimethylamine	0.016	0.043	0.083	0.420	0.843	1.186	0.001

Internal Standard = 1 ug/mL

Pollutant Compounds = 0.02, 0.05, 0.10, 0.50, 1.00 ug/mL

Sample: 0.02 PPM STD
Lab File: 6C25A05

NSTD0.02

Analyzed: 03/25/99 1605
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0734

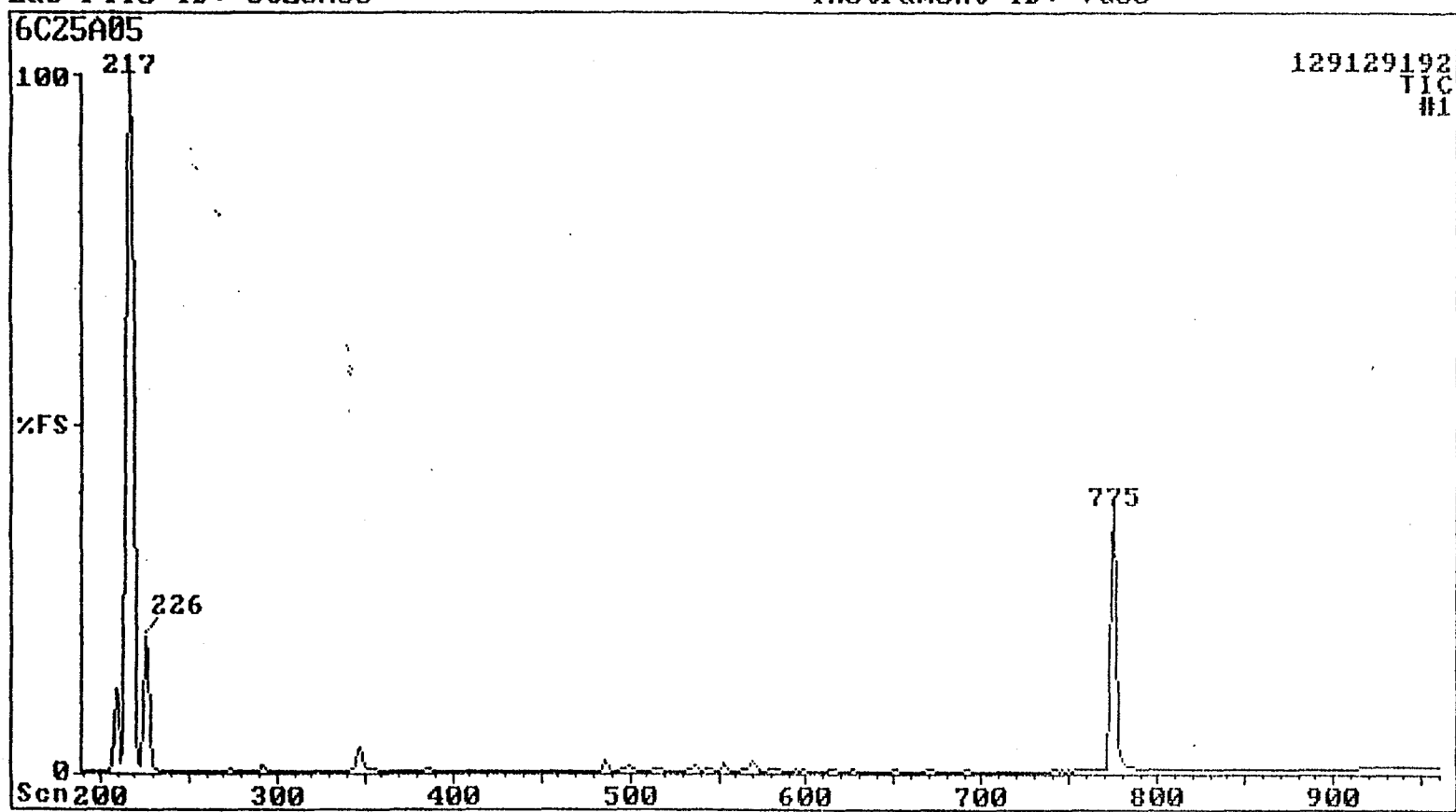
Raw Datafile : 6C25A05
Find DB : NNDMA

Quan DB : 6C25A05
Scan DB : NONE

No.	MAT	FDR	REV	Scan Diff	Peak Area Flgs	Found	Pred	QM	Compound Name
1	100	89	100	1	142039503	b?	775	774	190 2,2'-Difluorobiphenyl
2	100	96	100	0	40828079	b?	226	226	80 N-Nitrosodimethylamine-d6
3	94	59	92	-1	666664	bb	229	230	74 N-Nitrosodimethylamine

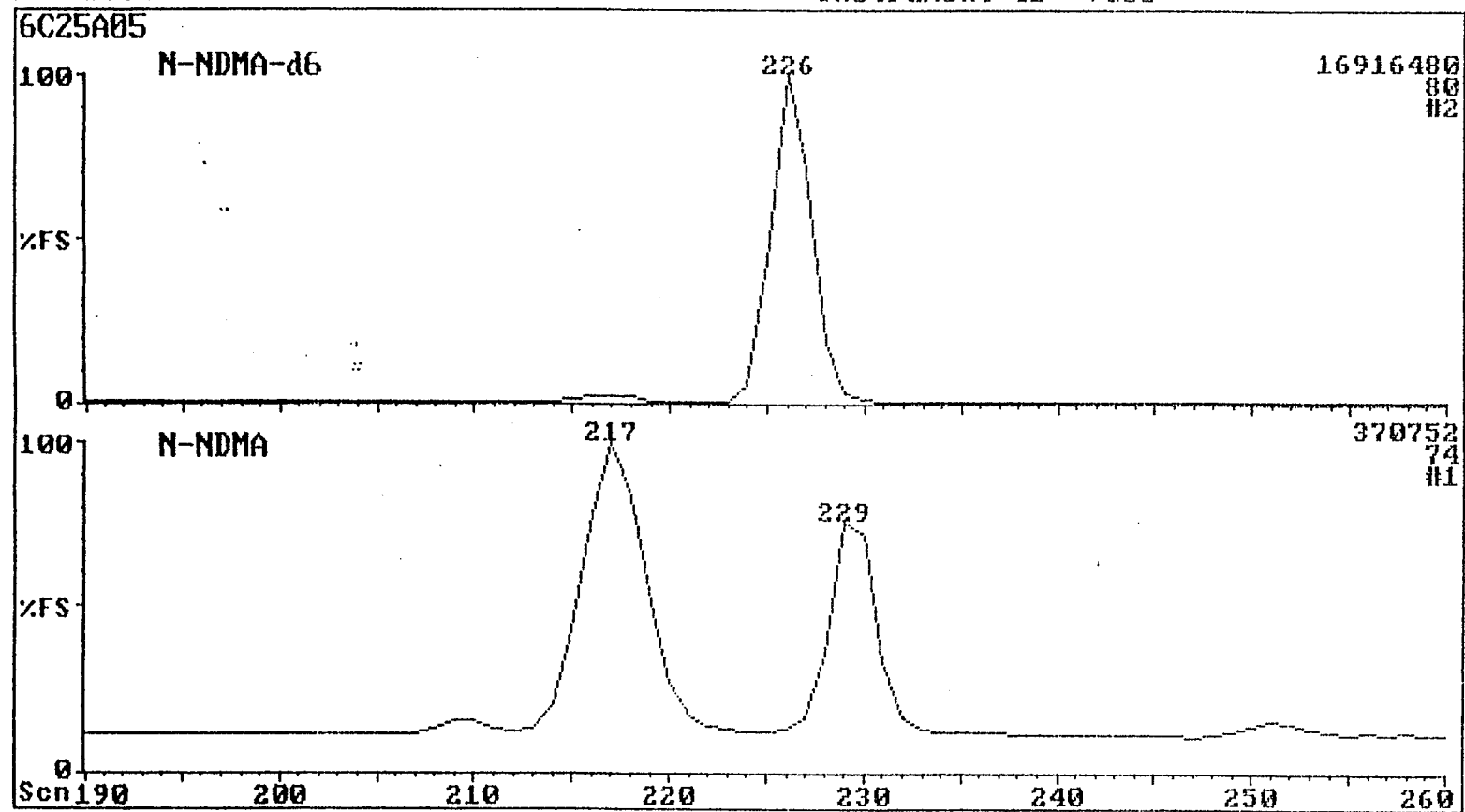
Sample No.: 0.02 PPM STD
Lab File ID: 6C25A05

Analyzed: 03/25/99 1605
Instrument ID: VG06



Sample No.: 0.02 PPM STD
Lab File ID: 6C25A05

Analyzed: 03/25/99 1605
Instrument ID: VG06



Sample: 0.05 PPM STD NSTDO.05 Analyzed: 03/25/99 1646
 Lab File: 6C25A06 Instrument ID: 06

=====

Interim Report LAB-BASE FIND 03/26/99 0734

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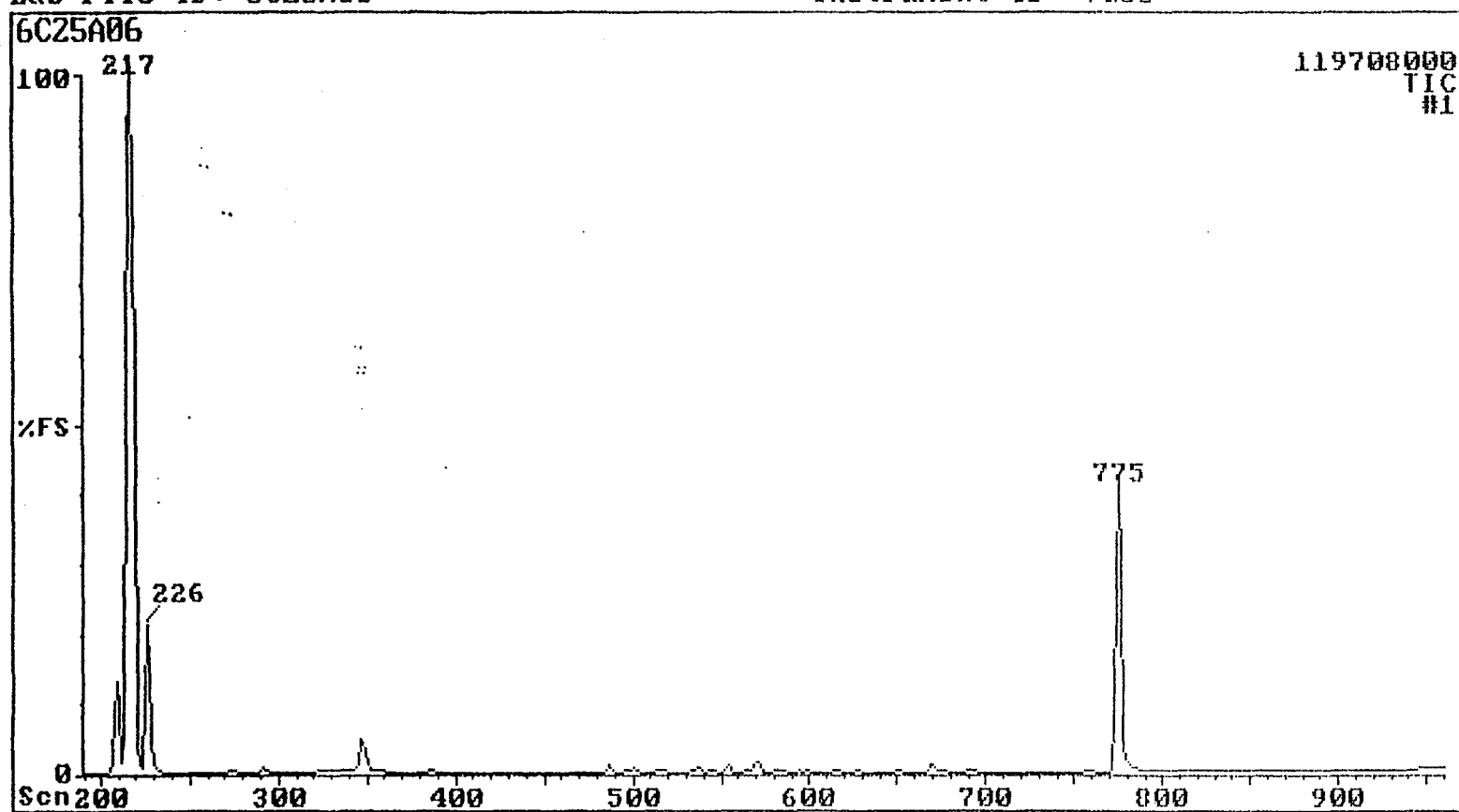
Raw Datafile : 6C25A06
 Find DB : NNDMA

Quan DB : 6C25A06
 Scan DB : NONE

No.	MAT	Spectrum	Scan	Diff	Peak	Area	Flgs	Found	Pred	GM	Compound Name
1	100	90	100	1	135675981	b?		775	774	190	2,2'-Difluorobiphenyl
2	100	96	99	0	40050321	b?		226	226	80	N-Nitrosodimethylamine-d6
3	97	64	97	-1	1707320	b?		229	230	74	N-Nitrosodimethylamine

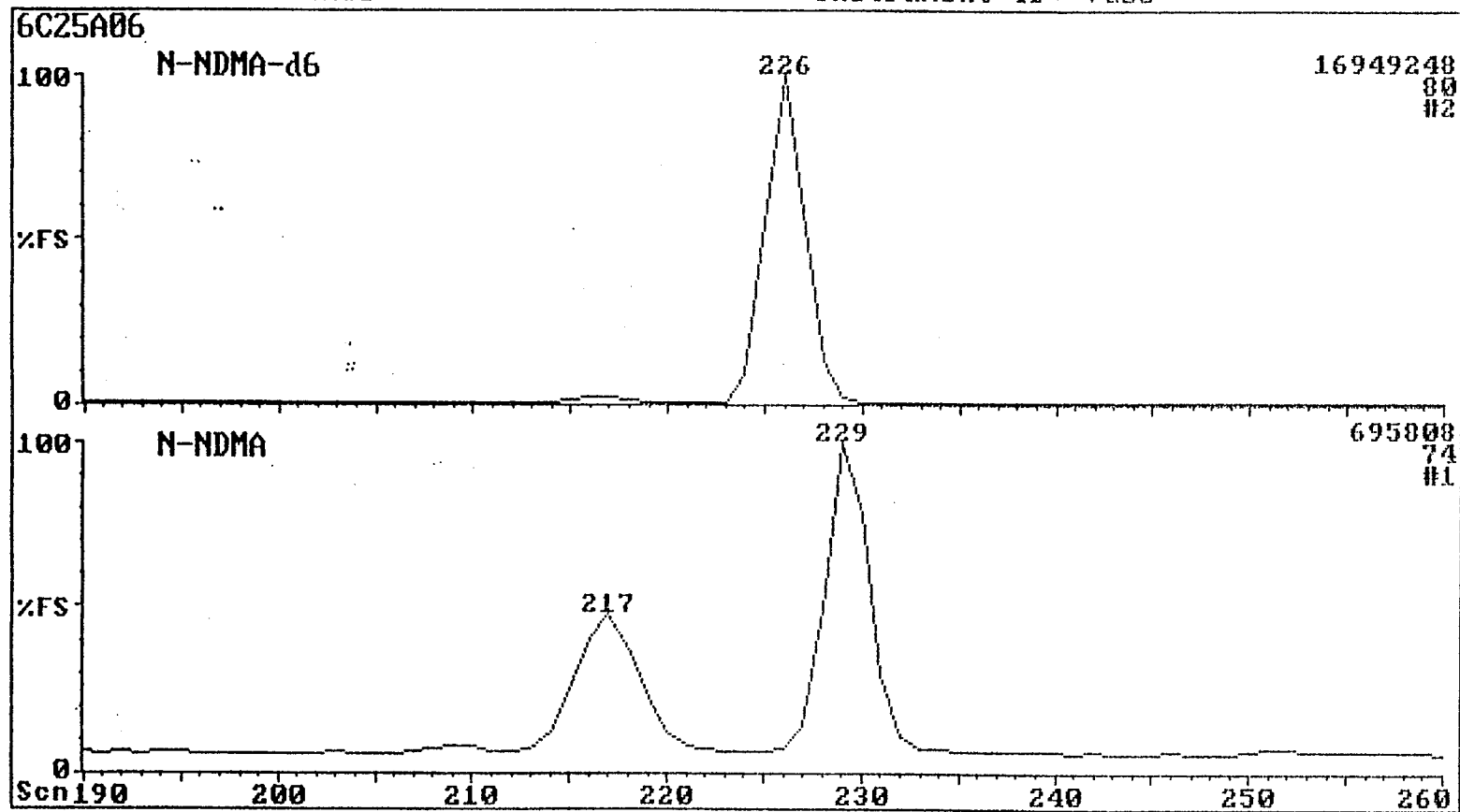
Sample No.: 0.05 PPM STD
Lab File ID: 6C25A06

Analyzed: 03/25/99 1646
Instrument ID: VG06



Sample No.: 0.05 PPM STD
Lab File ID: 6C25A06

Analyzed: 03/25/99 1646
Instrument ID: VG06



Sample: 0.10 PPM STD
Lab File: 6C25A07

NSTD0.10

Analyzed: 03/25/99 1728
Instrument ID: 06

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Interim Report	LAB-BASE FIND	03/26/99	0735
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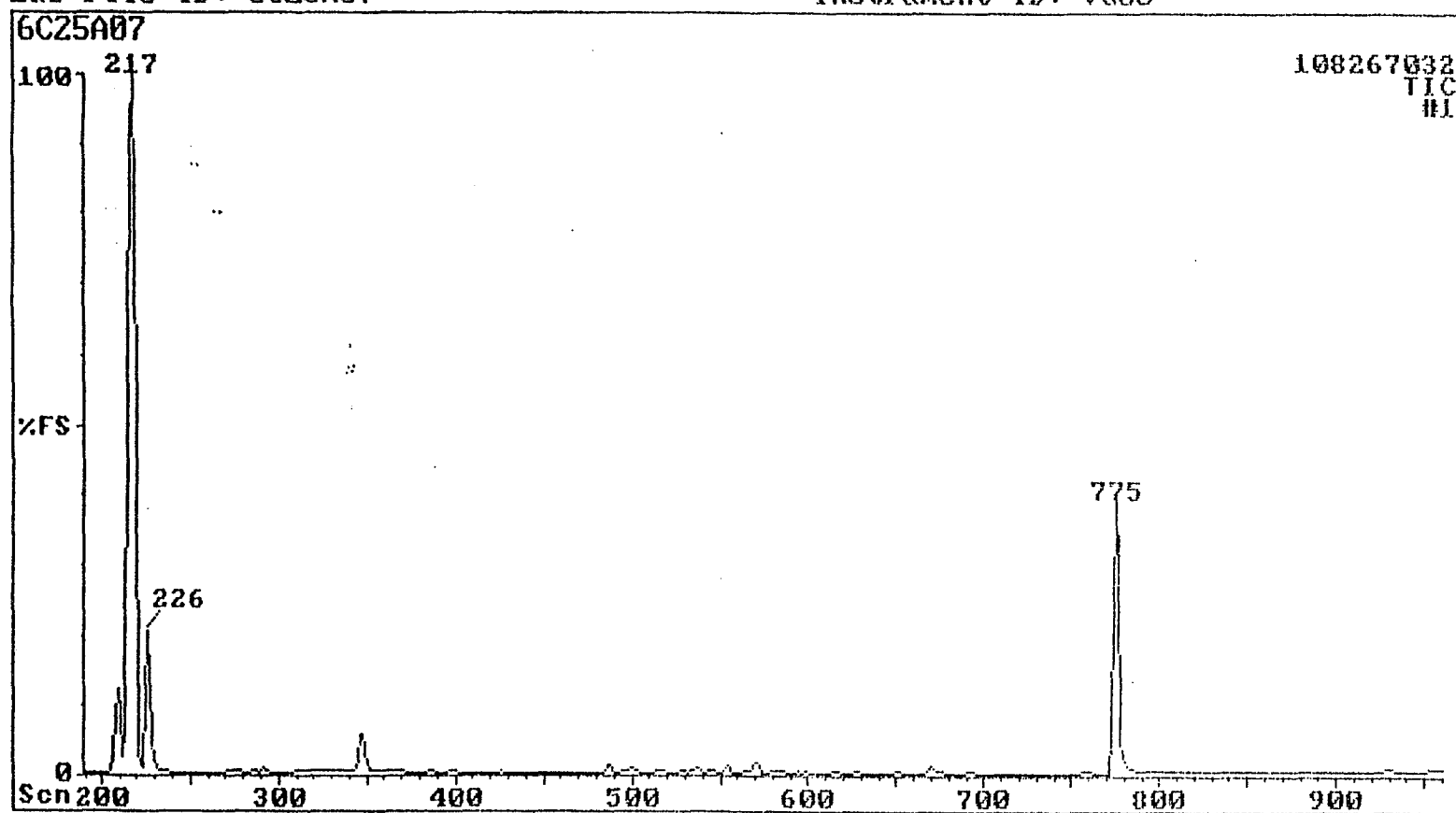
Raw Datafile : 6C25A07
Find DB : NNDMA

Quan DB : 6C25A07
Scan DB : NONE

No.	MAT	FOR	REV	Diff	Spectrum Scan	Peak	Scan	QM	Compound Name
						Area Flgs	Found	Pred	
1	100	90	100	1	119506948	b?	775	774 190	2,2'-Difluorobiphenyl
2	100	95	99	0	34497449	b?	226	226 80	N-Nitrosodimethylamine-d6
3	100	77	98	-1	2860496	b?	229	230 74	N-Nitrosodimethylamine

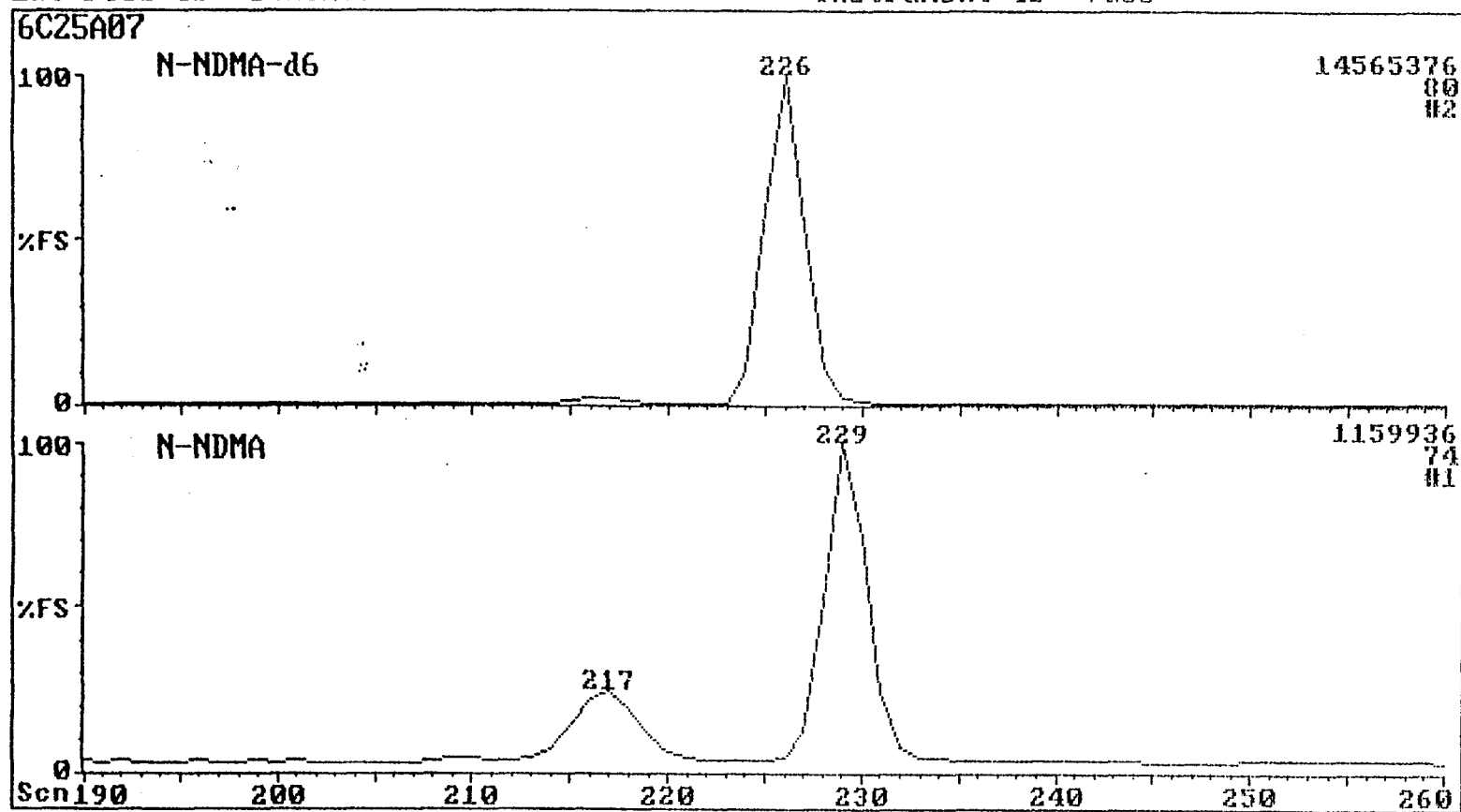
Sample No.: 0.10 PPM STD
Lab File ID: 6C25A07

Analyzed: 03/25/99 1728
Instrument ID: VG06



Sample No.: 0.10 PPM STD
Lab File ID: 6C25A07

Analyzed: 03/25/99 1728
Instrument ID: VG06



Sample: 0.50 PPM STD
Lab File: 6C25A08

NSTD0.50

Analyzed: 03/25/99 1810
Instrument ID: 06

Interim Report

LAB-BASE FIND

03/26/99 0736

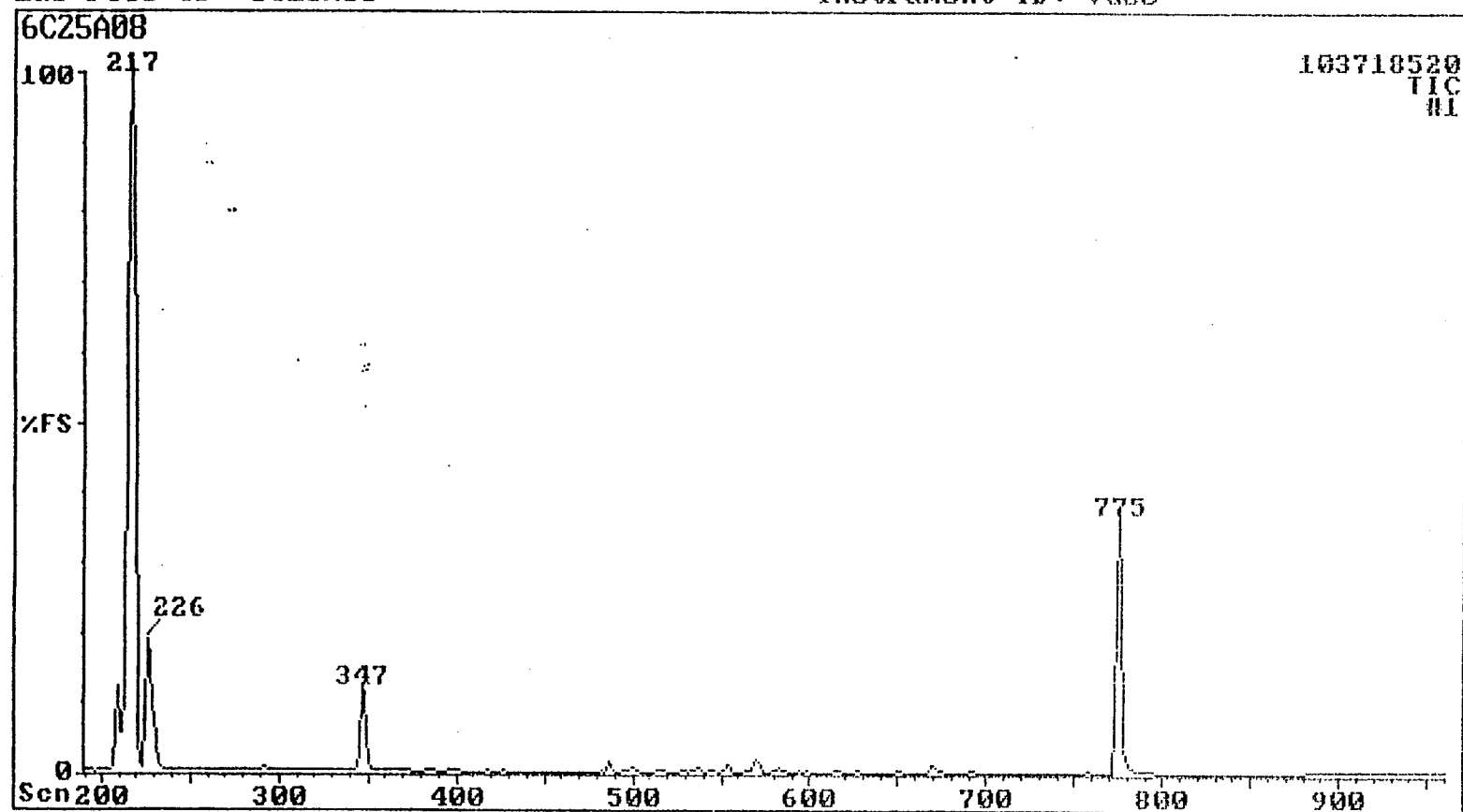
Raw Datafile : 6C25A08
Find DB : NNDMA

Quan DB : 6C25A08
Scan DB : NONE

No.	MAT	FOR	REV	Diff	Peak Area	Flgs	Found	Scan Pred	QM	Compound Name
1	100	90	100	1	105040581	b?	775	774 190	2,2'-Difluorobiphenyl	
2	100	95	100	0	30969823	b?	226	226 80	N-Nitrosodimethylamine-d6	
3	100	91	99	-1	12998048	b?	229	230 74	N-Nitrosodimethylamine	

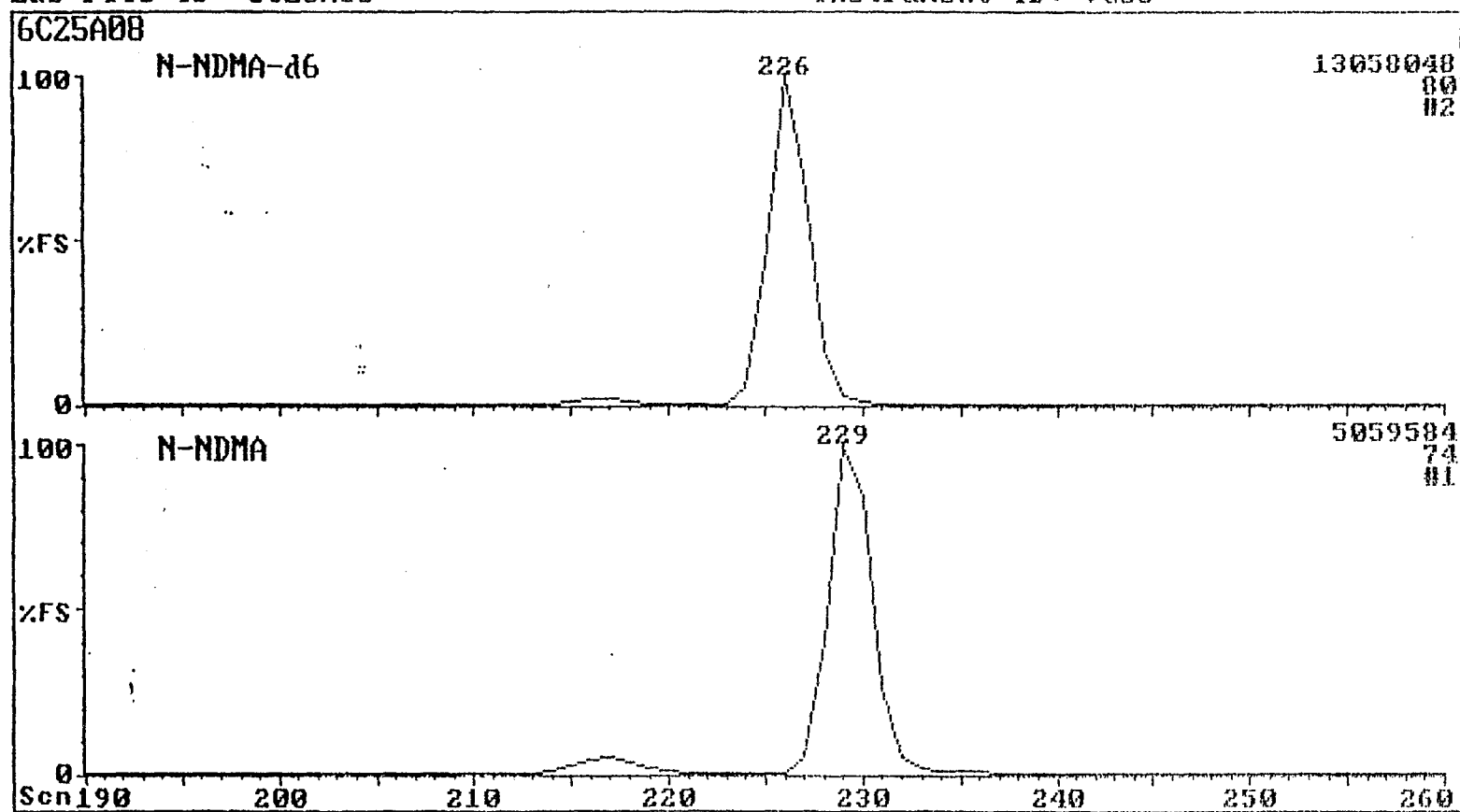
Sample No.: 0.50 PPM STD
Lab File ID: 6C25A08

Analyzed: 03/25/99 1810
Instrument ID: VG06



Sample No.: 0.50 PPM STD
Lab File ID: 6C25A08

Analyzed: 03/25/99 1010
Instrument ID: VG06



Sample: 1.00 PPM STD NSTD1.00 Analyzed: 03/25/99 1852
 Lab File: 6C25A09 Instrument ID: 06

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Interim Report	LAB-BASE FIND	03/26/99	0737
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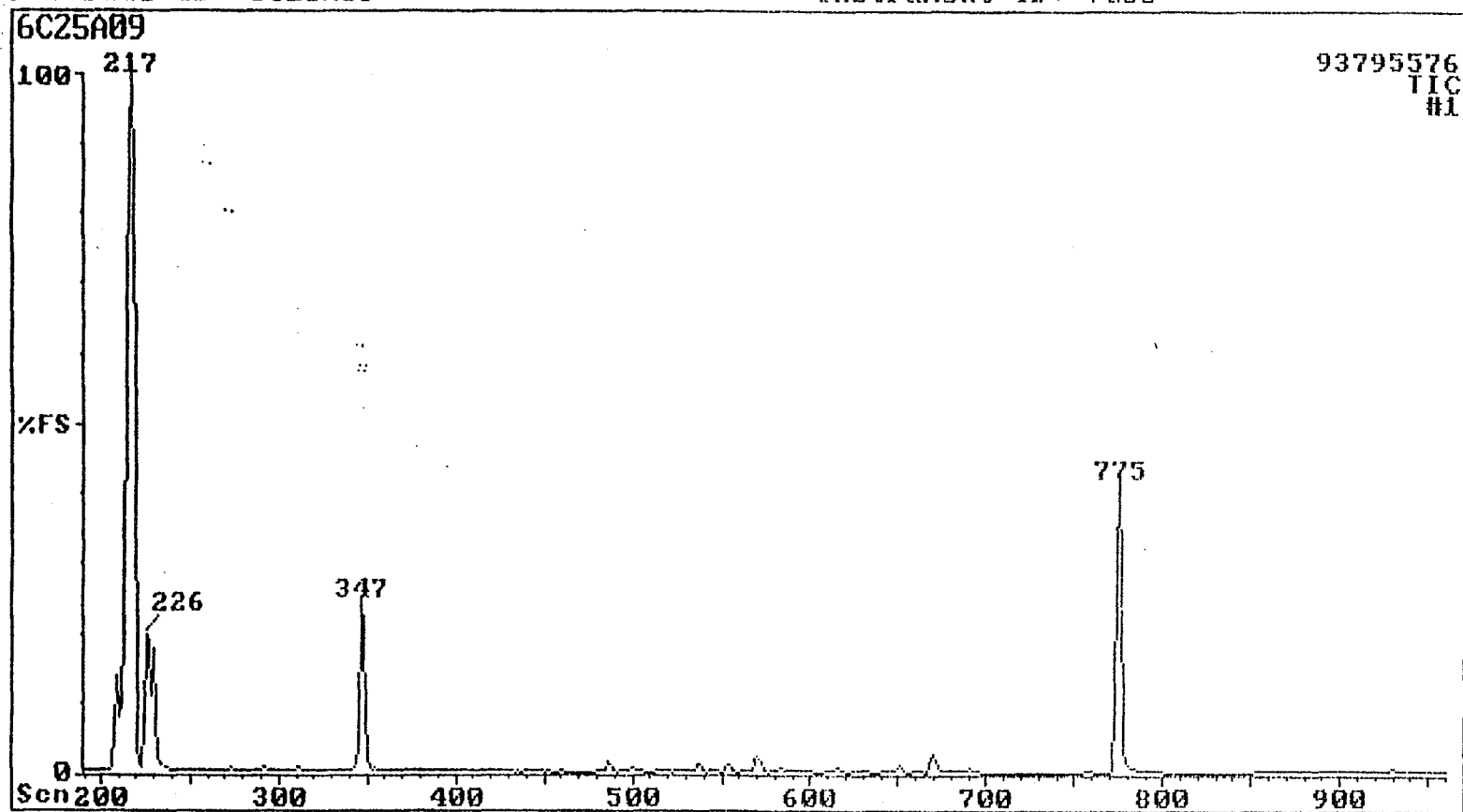
Raw Datafile : 6C25A09
 Find DB : NNDMA.

Quan DB : 6C25A09
 Scan DB : NONE

Spectrum Scan				Peak	Scan				
No.	MAT	FDR	REV	Diff	Area	Flgs	Found	Pred	QM Compound Name
1	100	90	100	1	107364121	b?	775	774	190 2,2'-Difluorobiphenyl
2	100	95	100	0	30106551	b?	226	226	80 N-Nitrosodimethylamine-d6
3	100	95	99	-1	25386272	b?	229	230	74 N-Nitrosodimethylamine

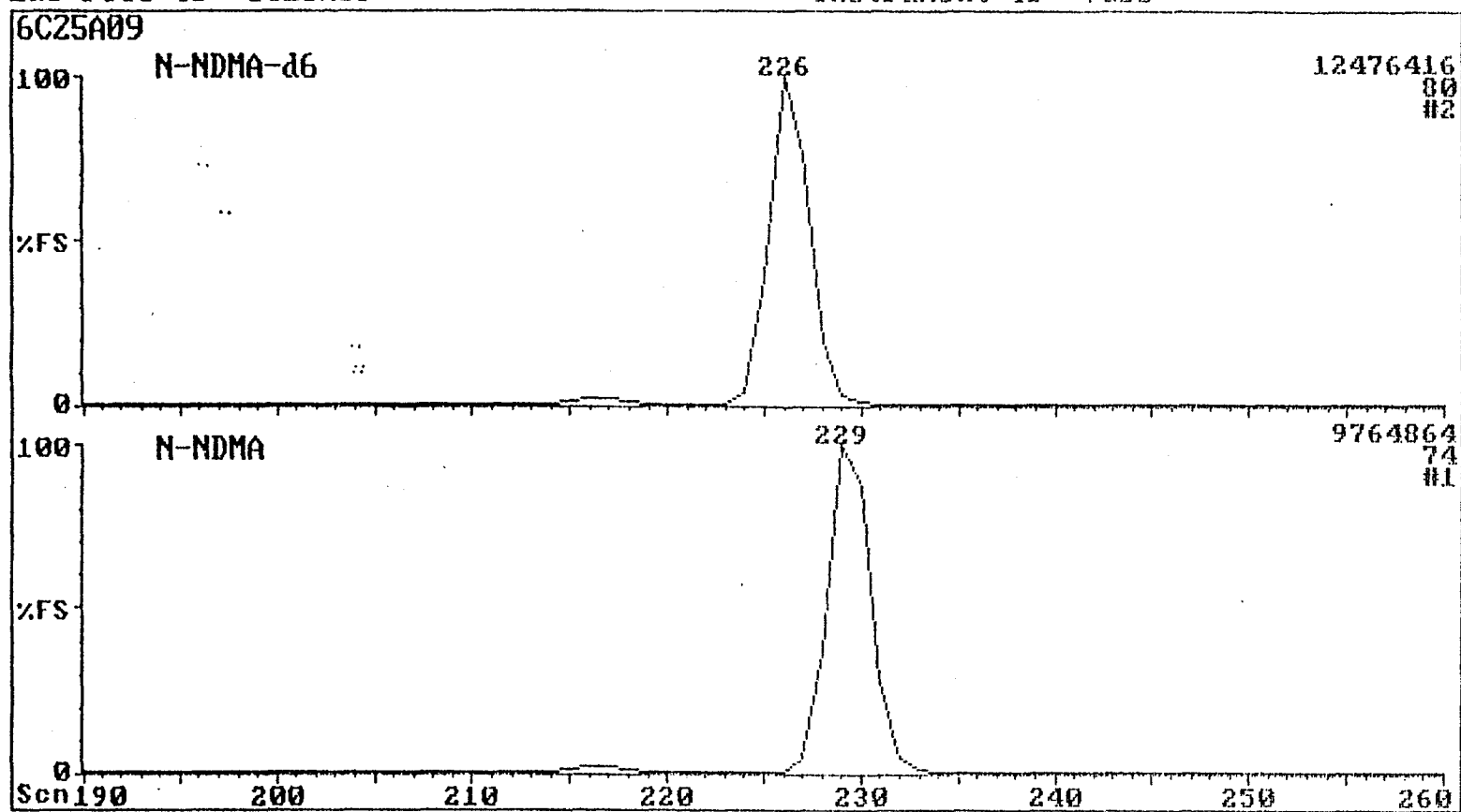
Sample No.: 1.00 PPM STD
Lab File ID: 6C25A09

Analyzed: 03/25/99 1852
Instrument ID: VG06



Sample No.: 1.00 PPM STD
Lab File ID: 6C25A09

Analyzed: 03/25/99 1852
Instrument ID: VG06



ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

P&R D15

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: P&R D15
Lab File ID: 6C25A10
Date Sampled:
Date Extracted: 03/24/99
Date Analyzed: 03/25/99
Time Analyzed: 1933

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.06		87 %

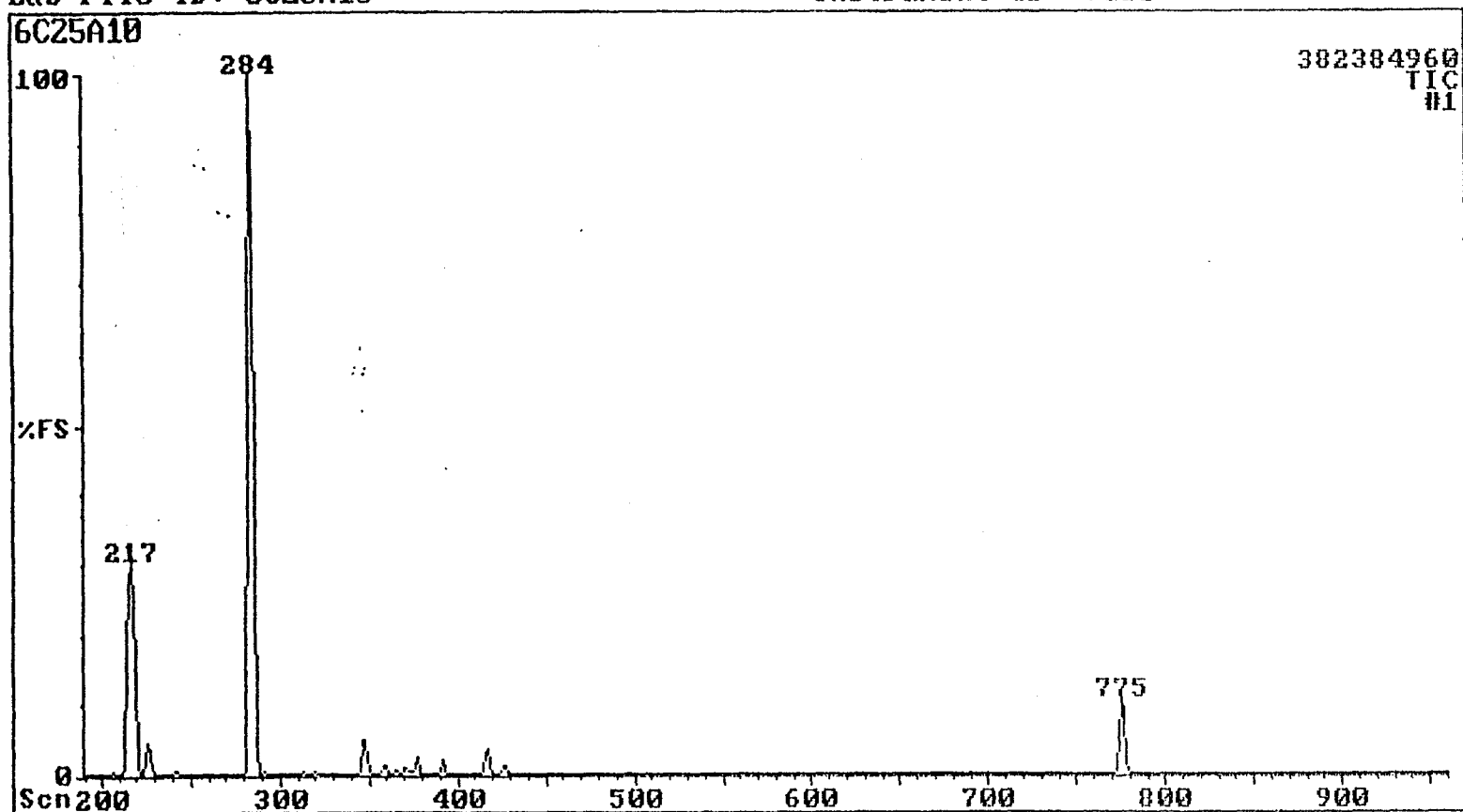
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

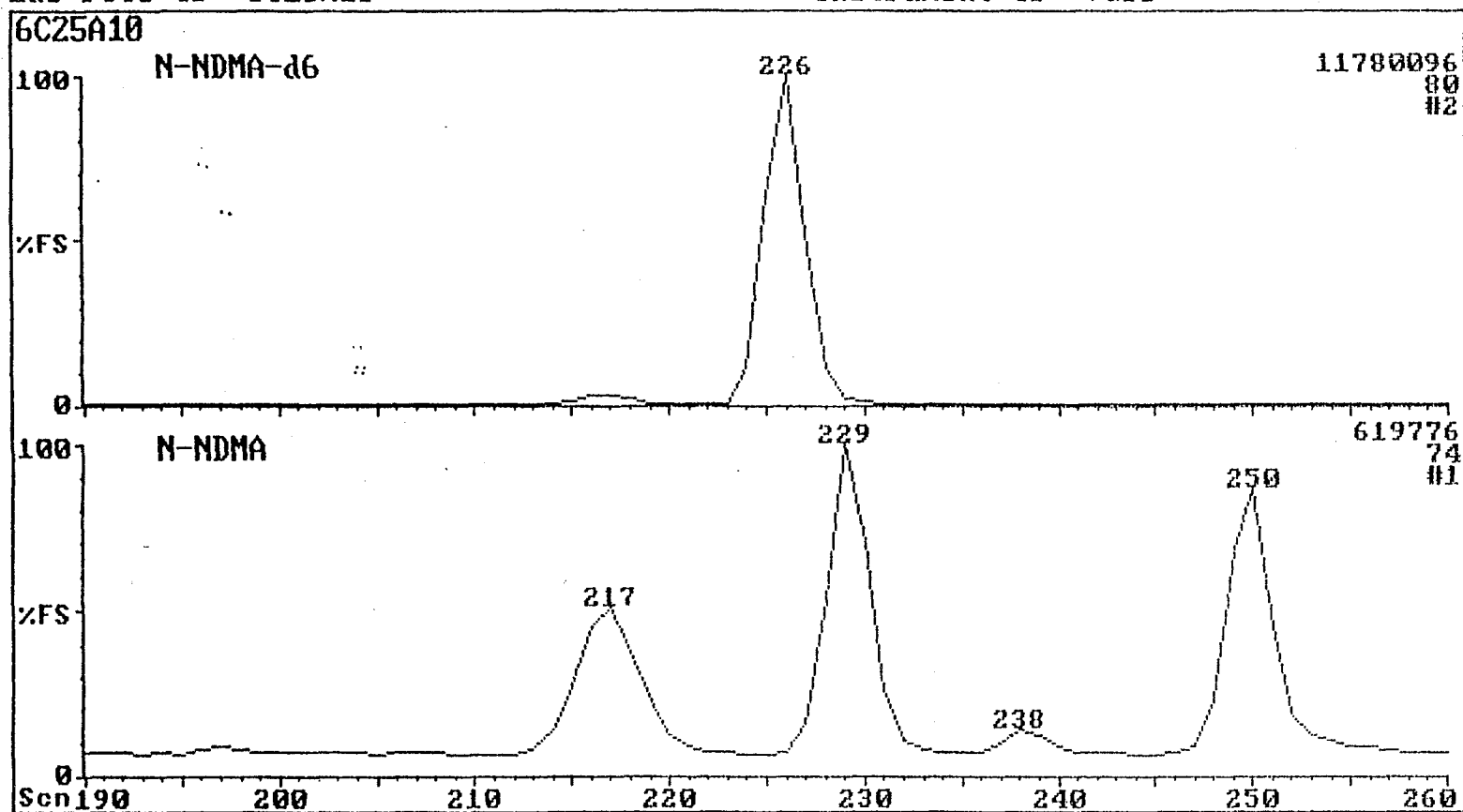
Sample No.: P&R D15
Lab File ID: 6C25A10

Analyzed: 03/25/99 1933
Instrument ID: VG06



Sample No.: P&R D15
Lab File ID: 6C25A10

Analyzed: 03/25/99 1933
Instrument ID: VG06



Sample: P&R D15 P&R D15 Analyzed: 03/25/99 1933
 Lab File: 6C25A10 Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	0808
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=====

Raw Datafile : 6C25A10	Quan DB : 6C25A10
Find DB : NNDMA	Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		GM Compound Name
	MAT	FDR	REV	Diff	Area	Flgs	Found	Pred	
1	100	91	100	1	112646127	b?	775	774	190 2,2'-Difluorobiphenyl
2	100	94	99	0	28230000	b?	226	226	80 N-Nitrosodimethylamine-d6
3	100	69	97	-1	1471104	b?	229	230	74 N-Nitrosodimethylamine

On-going Accuracy (P&R) Check

=====

EPA Name: P&R D15	Lab ID: P&R D15	Lab File: 6C25A10
Instr: 06	ICAL: 6C25	Acquisition Date: 03/25/99 Acquisition Time: 1933

=====

Compound	Target Conc.	Rec.	Label Rec.	Limits
N-Nitrosodimethylamine	0.06	61.77	86.6	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

B9052

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: 9052
Lab File ID: 6C25A12
Date Sampled:
Date Extracted: 03/24/99
Date Analyzed: 03/25/99
Time Analyzed: 2057

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	88 %

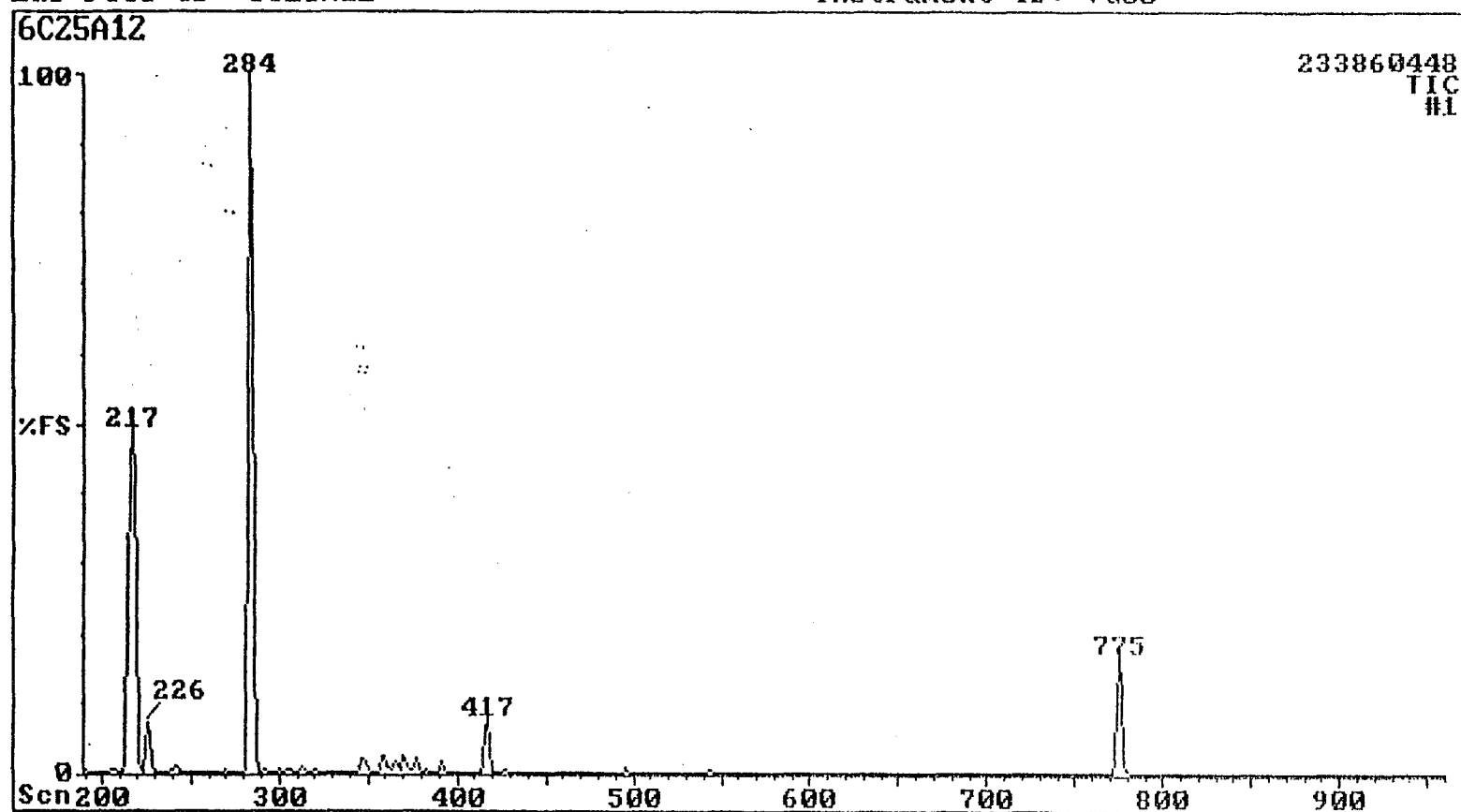
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

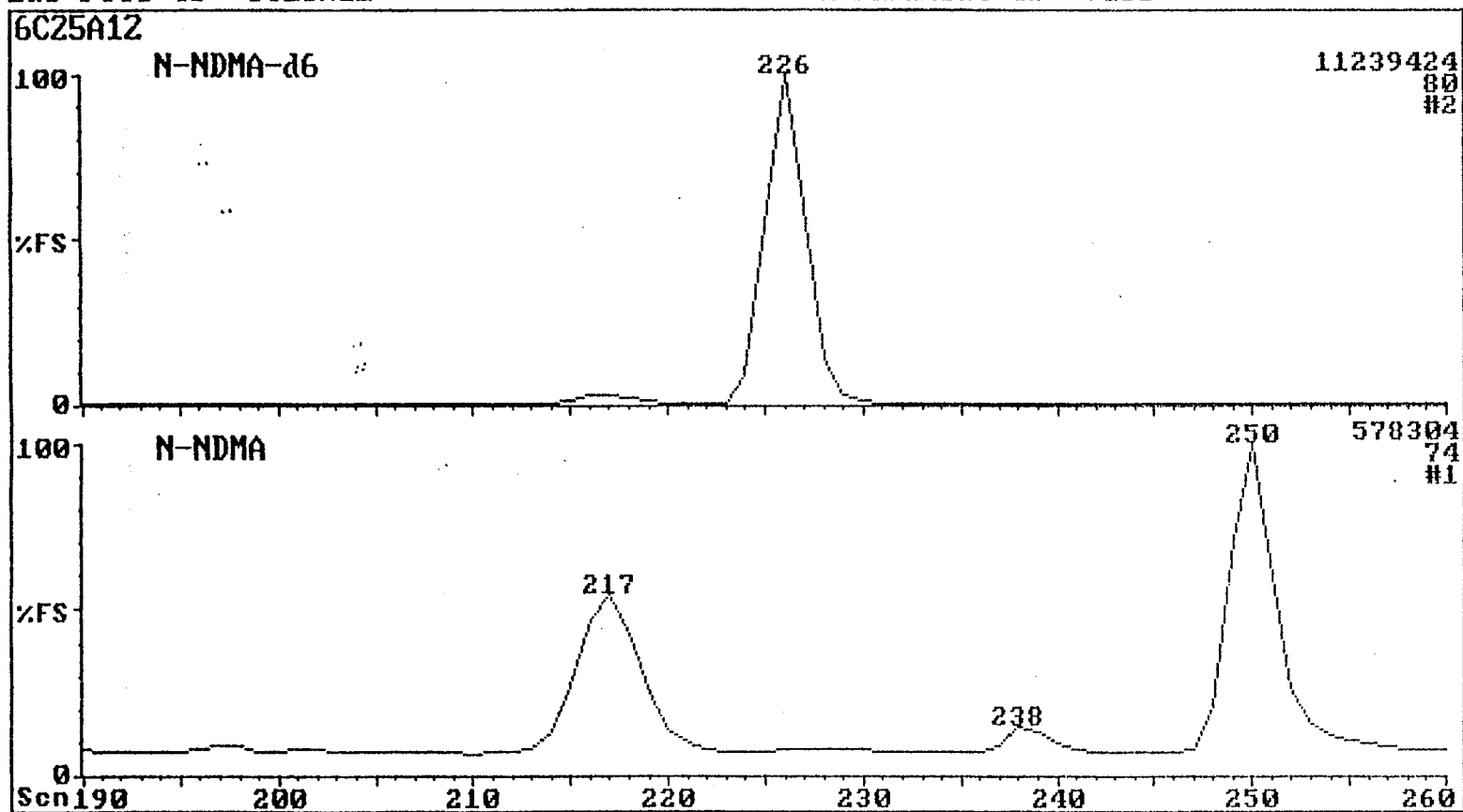
Sample No.: B9052
Lab File ID: 6C25A12

Analyzed: 03/25/99 2057
Instrument ID: VG06



Sample No.: B9052
Lab File ID: 6C25A12

Analyzed: 03/25/99 2057
Instrument ID: VG06



Sample: B9052 9052 Analyzed: 03/25/99 2057
 Lab File: 6C25A12 Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	0810
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=====

Raw Datafile : 6C25A12 Quan DB : 6C25A12
 Find DB : NNDMA Scan DB : NONE

No.	Spectrum Scan				Peak		Scan		QM	Compound Name
	MAT	FDR	REV	Diff	Area	Flgs	Found	Pred		
1	100	90	100	1	105256868	b?	775	774	190	2,2'-Difluorobiphenyl
2	100	95	99	0	26823649	b?	226	226	80	N-Nitrosodimethylamine-d6
3	70	32	80	-1	12704	!!	229	230	74	N-Nitrosodimethylamine
	47	20	88	8	107296	!!	238			

Quantitation Results

=====

EPA Name: B9052	Lab ID: 9052	Lab File: 6C25A12
Instr: 06	ICAL: 6C25	Acquisition Date: 03/25/99 Acquisition Time: 2057

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	88.0	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST
Page 1 of 1

CLIENT SAMPLE NO.

B9053

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Combined

Lab Sample ID: 9053
Lab File ID: 6C25A13
Date Sampled:
Date Extracted: 03/24/99
Date Analyzed: 03/25/99
Time Analyzed: 2138

Compound	Concentration (ug/L)	Flags	Labeled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	91 %

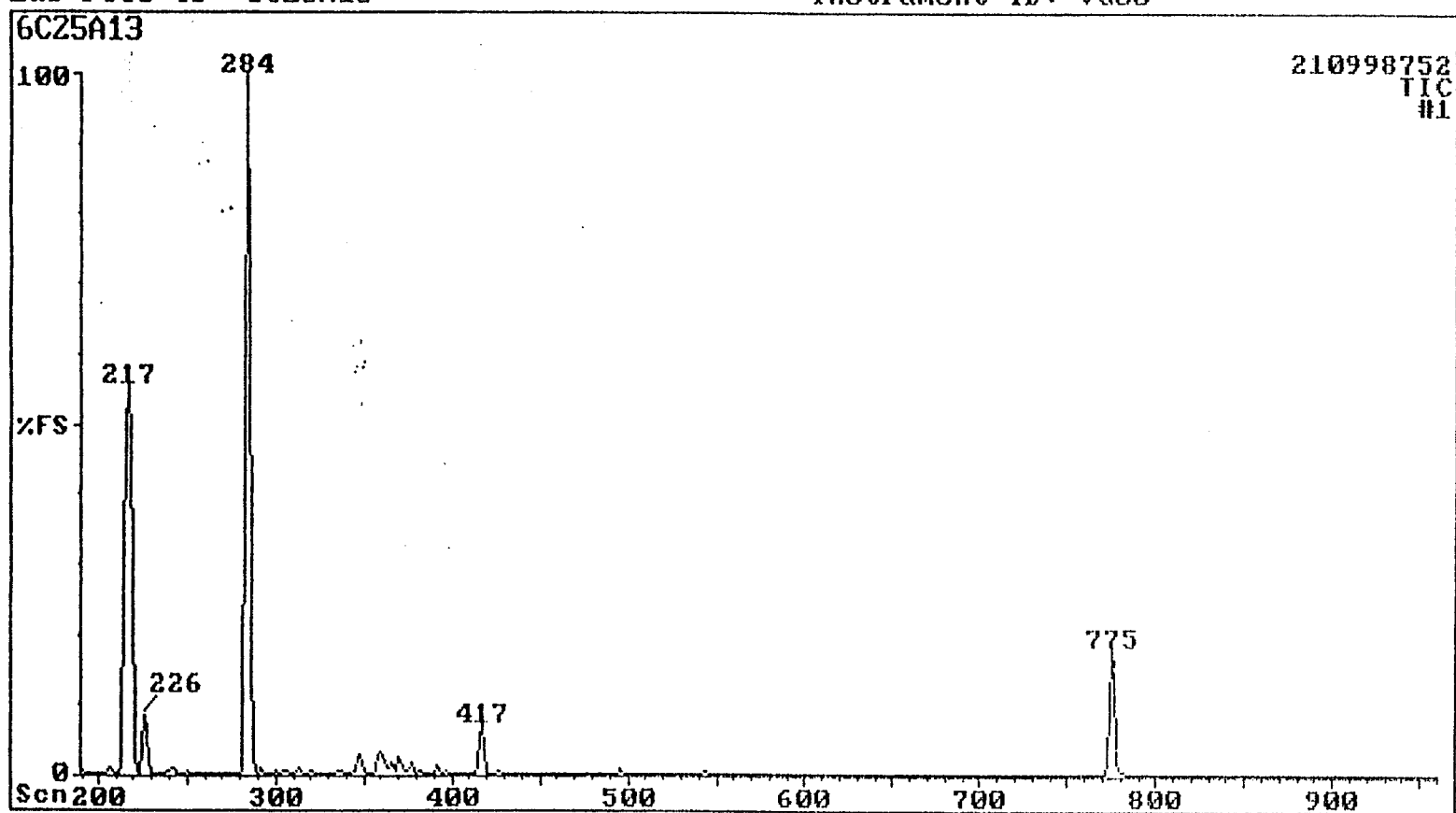
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

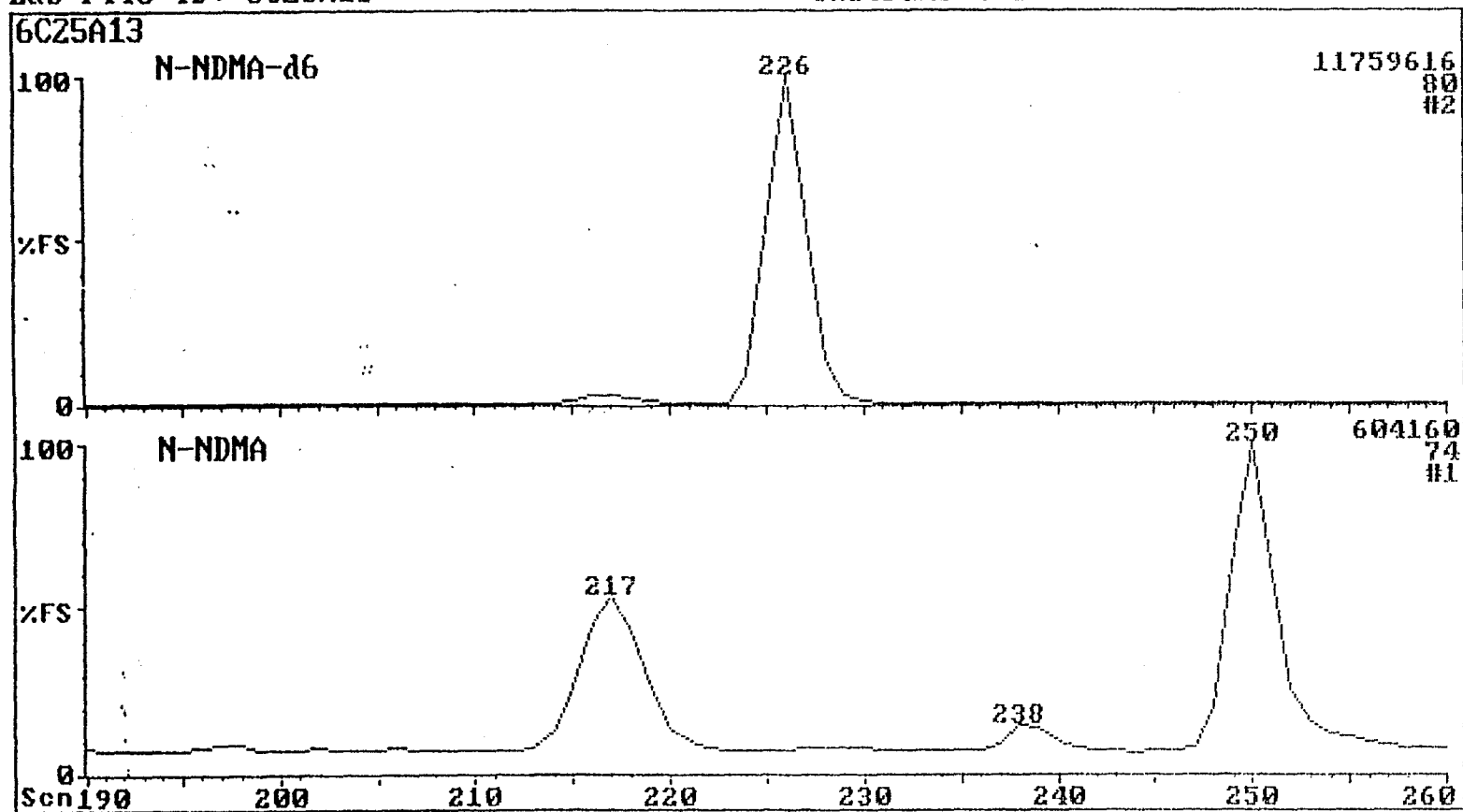
Sample No.: B9053
Lab File ID: 6C25A13

Analyzed: 03/25/99 2138
Instrument ID: VG06



Sample No.: B9053
Lab File ID: 6C25A13

Analyzed: 03/25/99 2138
Instrument ID: VG06



Sample: B9053 9053 Analyzed: 03/25/99 2138
 Lab File: 6C25A13 Instrument ID: 06

=====

Interim Report	LAB-BASE FIND	03/26/99	0811
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=====

Raw Datafile : 6C25A13 Quan DB : 6C25A13
 Find DB : NNDMA Scan DB : NONE

No.	MAT	FQR	REV	Diff	Spectrum Scan	Peak	Scan	Area	Flgs	Found	Pred	QM	Compound Name
1	100	90	100	1	106390168	b?	775	774	190	2,2'-Difluorobiphenyl			
2	100	95	99	0	27980591	b?	226	226	80	N-Nitrosodimethylamine-d6			
3	69	36	79	0	17237	!!	230	230	74	N-Nitrosodimethylamine			
	47	20	89	8	129840	b?	238						

Quantitation Results

=====

EPA Name: B9053	Lab ID: 9053	Lab File: 6025A13
Instr: 06	ICAL: 6025	Acquisition Date: 03/25/99 Acquisition Time: 2138

=====

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	90.9	25 - 175

Pacific Analytical
GC/MS SEMI-VOLATILES
RUN LOG

Instrument: V686

Page: 362

Cal File: 6C25

Date: 3/25/99

Notes: P 74, P82, P80, P81
Tune Par: SIR=5, Q, SEC=100, SF1=14, SF3=210, QL=6.0, QA=10.9, DM=700
SEE=70, STZ=21.0, SF4=21, QIE=1.5, QIR=1.0

GC Par: 40°C 0.5 min, 15°C/min to 280 Hold 15 min

Taped	Sample ID	File Name	OK	Description	OP
		6C25A01		Warm-up	CB
		02			
		03			
		04			
	NSSTD0.02	05		0.02 ug/ml NNOMA + Dioxan + ICHL	
	NSSTD0.05	06		0.05	
	NSSTD0.10	07		0.10	
	NSSTD0.50	08		0.50	
	NSSTD1.00	09		1.00	
	P8RD15	10			
	P8RD50	11			
	9052	12			
	9053	13			
	P8201	14			
	P7401	15			
	P7402	16			
	P8001	17			
	P8002	18			
	P8003	19			
	P8004	20			
	P8101	21			
	P8102	22			
	NSSTD0.10	23		0.10 ug/ml NNOMA Daily	
	P8103	24			
	P8104	25			

06/21/93

Reviewed by: _____ on: _____

Pacific Analytical
GC/MS SEMI-VOLATILES
RUN LOG

Instrument: V606

Page: 363

Cal File: 6C23

Date: 3/25/99

Notes: Same as Page 362

[illegible]

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PACIFIC ANALYTICAL, INC.

*** SAMPLE RECEIPT LOG ***

PA JOB NUMBER: 179
(Sample Tracking Information)

JOB _____ TASK _____
(Invoice Information)

CUSTOMER: MONTGOMERY WATSON

RECEIVED BY: JLT JLT

REVISION DATE: 03/19/99

REVISION TIME: 10:39

CHAIN OF CUSTODY RECEIVED: Y

SHIPPER: FED EX
SHIPPER CODE: 414782664059

LAB SAMPLE NUMBER OF FIRST SAMPLE TO BE LOGGED IN: P7401

[illegible]

COMMENTS: 1 MEDIUM COOLER

**Montgomery Watson Laboratories**

555 East Walnut Street
Pasadena, CA 91101
Ph (626) 568-6400 Fax (626) 568-6324

Ship To **Steve Parsons**
Pacific Analytical, Inc
6349 Paseo del Lago
Carlsbad, CA 92009

(760) 438-3100

Date 03/18/99

Submittal Form

DEB

52730

Reporting: One report for this MWL Project Number 52730

Do Not Combine Report with any other samples submitted under different MWL project numbers!

Report & Invoice must have the MWL Project Number and Sub PO#: 99-0340

Report all quality control data according to Method. Include dates analyzed, date extracted (if extracted) and Method reference on the report. Fax results to 626-568-6324. Faxed results must have complete data & QC. Hardcopy report is due in hand on due date. Please advise us immediately if Due Date will be missed.

If you have questions about these samples,
please call the MWL project manager

Debbie Frank (626) 568-6449

this is a single report for one specific client. Please do not combine any other samples submitted by our lab in same report. Must be separate.

MWL
Project # 52730

Report
Due: 4/2/99

For Prompt Payment, please mail Hardcopy Report & Invoice to attention of
Martha Frost Montgomery Watson Laboratories 555 East Walnut St Pasadena CA 91101
even if your arrangements were made with the MWL project manager.

Qty		Test Code	Use MWL Lab # for ID	Client Sample ID for reference only	Analysis Requested	Sample Date	Matrix	Container
1		CUSTOMMS DMA	99031434	MW-991-072	N-Nitrosodimethylamine (N-NDMA)	03/17/99	aq	2 1L amber glass / no preservative
1		CUSTOMMS DMA	990317435	MW-991-005	N-Nitrosodimethylamine (N-NDMA)	03/17/99	aq	2 1L amber glass / no preservative

**MONTGOMERY WATSON LABORATORIES**

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#52730

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
17-mar-1999 17:47:05

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-072 (990317434) Sampled on 03/17/99								
	03/25/99		(	) Custom GCMS Analysis	SUB PAI	None	0.0000	1
1,4-Dioxane								
03/25/99	03/29/99	94292	(ML/SW 8270	) 1,4-Dioxane	ND	ug/l	3.0	1
			(Surrogate	) 2-Fluorobiphenyl	72	% Rec		
			(Surrogate	) Nitrobenzene-d5	64	% Rec		
			(Surrogate	) Terphenyl-d14	45	% Rec		
MW-991-005 (990317435) Sampled on 03/17/99								
	03/25/99		(	) Custom GCMS Analysis	SUB PAI	None	0.0000	1
1,4-Dioxane								
03/25/99	03/29/99	94292	(ML/SW 8270	) 1,4-Dioxane	ND	ug/l	3.0	1
			(Surrogate	) 2-Fluorobiphenyl	68	% Rec		
			(Surrogate	) Nitrobenzene-d5	69	% Rec		
			(Surrogate	) Terphenyl-d14	47	% Rec		

**MONTGOMERY WATSON LABORATORIES**

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street

Pasadena, California 91101

Tel: 626 568 6400 Fax: 626 568 6324

1 800 566 LABS (1 800 566 5227)

Laboratory

QC Report

#52730

Foster Wheeler Environmental, Inc

QC Batch #94292		1,4-Dioxane				
QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,4-Dioxane	10	8.36	83.6	(70.00 - 130.00)	
MBLK	1,4-Dioxane	ND				
MS	1,4-Dioxane	10	10.9	109.0	(70.00 - 130.00)	
MSD	1,4-Dioxane	10	8.80	88.0	(70.00 - 130.00)	21
MS	Spiked sample	Lab # 99	0319306		(0.00 - 0.00)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.



FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572.0268		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS		THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY												
PROJECT ADDRESS 4800 OAK GROVE DR., PASADENA CA				ANALYSES REQUIRED																
SAMPLER (Name) J. BRENNER		SAMPLER (Signature) <i>J. Brenner</i>		VOCs (Std. 2) TOTAL AQS, 6 PLS (COPD/1000) MASS FOR IONS TDS HEX. CR PERCHLORATE MS FOR VOCs MSD FOR VOCs MS/MSD FOR METALS * QC FOR CR																
LABORATORY MONTGOMERY LABS																				
REPORTS TO BE SENT TO MR. MARK CUTLER																				
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (Std. 2)	TOTAL AQS, 6 PLS (COPD/1000)	MASS FOR IONS	TDS	HEX. CR	PERCHLORATE	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR METALS	* QC FOR CR	LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)													
MW-991-080	0900	2/24/99	2	2x40ml	X			X										TRIP BLANK	2/24/99	
MW-991-081	1130	↓	5	2x40ml 2x125ml 1x250ml	X			X	X			X	X					EQUIP. BLANK	2/24/99	
MW-991-031	1030		6	2x40ml 1x500ml 1x250ml 2x125ml	X			X	X	X		X	X					MW-18, SCREEN #5		
MW-991-032	1210		7	2x40ml 1x500ml 2x250ml 2x125ml	X			X	X	X		X	X		X			MW-18, SCREEN #4	MS/MSD METALS	
MW-991-032MS	1210		2	2x40ml	X									X				MW-18-4	MS FOR VOCs	
MW-991-032MSD	1210		2	2x40ml	X										X			MW-18-4	MSD FOR VOCs	
MW-991-033	1330		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X	X					MW-18, SCREEN #3		
MW-991-034	1425		6	↓	X			X	X	X	X	X					X	MW-18, SCREEN #2		
MW-991-035	1515		6	↓	X			X	X	X	X	X						MW-18, SCREEN #1		
LABORATORY INSTRUCTIONS/COMMENTS																		SAMPLING COMMENTS		
LEVEL IV QA/QC <i>[Signature]</i> FWENC																		DURING AT 3°C		
RELINQUISHED BY (Signature) <i>J. Brenner</i>		DATE 2/24/99		RECEIVED BY (Signature) <i>M. DE MESA</i>		DATE		RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)		TIME		COMPANY				
COMPANY FWENC		TIME 1630		COMPANY M.W.				COMPANY				COMPANY								



FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572.0268		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS					
PROJECT ADDRESS 4800 OAK GROVE DR., PASADENA, CA				ANALYSES REQUIRED VOCs (524.2) ☒ TOTAL AS, G, Pb (6010/7000) ☒ MAJOR IONS ☒ TDS ☒ HX. Cr. ☒ Pesticides ☒ MS FOR VOCs ☒ MSD FOR VOCs ☒ MS/MSD FOR METALS ☒ QC FOR Cr ☒							
SAMPLER (Name) J. BRENNER		SAMPLER (Signature) <i>J. Brenner</i>									
LABORATORY MONTGOMERY WATSON LABS											
REPORTS TO BE SENT TO MIZ. MARK CUTLER				THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY							
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS					CONTAINER SIZE(S)	SAMPLE MATERIAL		
									WATER	SOIL	OTHER (Describe)
MW-991-082	0830	2/25/99	2					2x40ml	X		
MW-991-083	1210	↓	5					2x40ml 1x250ml 2x125ml	X		
MW-991-084	1000		6					2x40ml 1x250ml 2x125ml 1x500ml	X		
MW-991-022	1130		6					↓	X		
MW-991-023	1230		7					2x40ml 2x250ml 2x125ml 1x500ml	X		
MW-991-023/15	1230		2					2x40ml	X		
MW-991-023/MSD	1230		2					2x40ml	X		
MW-991-024	1400		6	2x40ml 1x250ml 2x125ml 1x500ml	X						
MW-991-025	1500		6	↓	X						
LABORATORY INSTRUCTIONS/COMMENTS LEVEL IV QA/QC											
SAMPLING COMMENTS DELIVERED AT 3°C											
RELINQUISHED BY (Signature) <i>Robert J. Feldman</i>		DATE 2/25/99	RECEIVED BY (Signature) <i>M. DE NIOSA</i>		DATE	RECEIVED BY (Signature)					
COMPANY Foster Wheeler		TIME 4:10	COMPANY M.W.		TIME	COMPANY					



FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT		OFS NO.		HAZARD IDENTIFICATION		TIME REQUIRED		THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY															
PROJECT ADDRESS		SAMPLER (Name)		SAMPLER (Signature)		ANALYSIS REQUIRED																	
LABORATORY		REPORTS TO BE SENT TO		SAMPLE MATERIAL		VOCs (S24.2)		TOTAL AS, C, Pb (6010/7000)		MAJOR ANIONS 3 TDS		Hex. Cr.		Clorg (Perchlorate)		MS FOR VOCs		MSD FOR VOCs		MS/MSD FOR METALS		QC FOR Cr	
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	WATER	SOIL	OTHER (Describe)													LOCATION	DEPTH	QC CODE	
MW-991-084	1005	2/26/99	2	2x 40ml	X			X												TRIP BLANK	2/26/99		
MW-991-085	1000		5	2x40ml 1x250ml 2x125ml 1x250ml	X			X	X			X	X							EQUIP. BLANK	2/26/99		
MW-991-026	0930		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X		X	X							MW-19 SCREEN #5			
MW-991-027	1045		6		X			X	X	X		X	X							MW-19 SCREEN #4			
MW-991-028	1150		6		X			X	X	X		X	X							MW-19 SCREEN #3			
MW-991-028MS	1150		2	2x40ml	X										X					MW-19-3 MS FOR VOCs			
MW-991-029MS	1150		2	2x40ml	X											X				MW-19-3 MS FOR VOCs			
MW-991-028MS/MSD	1150		1	1x250ml	X												X			MW-19-3 MS/MSD FOR METALS			
MW-991-029	1320		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X		X	X							MW-19 SCREEN #2			
MW-991-030	1420		6		X			X	X	X		X	X						X	MW-19 SCREEN #1			
LABORATORY INSTRUCTIONS/COMMENTS																						SAMPLING COMMENTS	
LEVEL IV QA/QC																						DELIVERED TO LAB AT 3'C	
RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)		DATE		RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)		DATE		RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)			
COMPANY		TIME		COMPANY		TIME		COMPANY		TIME		COMPANY		TIME		COMPANY		TIME		COMPANY			
Foster Wheeler		3:55		M. W.				Foster Wheeler								Foster Wheeler							



FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT		OFS NO.		HAZARD IDENTIFICATION		TIME REQUIRED					
JPL		1572.0268		Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		NORMAL ☒ DAYS RUSH ☐ DAYS					
PROJECT ADDRESS		SAMPLER (Name)		SAMPLER (Signature)		ANALYSES REQUIRED					
4800 OAK GROVE DR, PASADENA, CA		J. BRENNER		[Signature]		VOCs (524.2) TOTAL AS G-PC (6010/7000) PLA 302 AMU 335 + TDs Hex. Cr Perchlorate QC for Cr 4					
LABORATORY		REPORTS TO BE SENT TO		SAMPLE MATERIAL		THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY					
MONTGOMERY WATSON LABS		MR. MARK CUTLER		WATER SOIL OTHER (Describe)		LOCATION DEPTH QC CODE					
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)							
MW-991-108	1430	3/15/99	2	2x40ml	X			X			TRIP BLANK 3/15/99
MW-991-107	1415	↓	5	2x40ml 1x250ml 2x125ml	X			X	X		EQUIP. BLANK 3/15/99
MW-991-036	1400	↓	6	2x40ml 1x250ml 2x125ml 1x50ml	X			X	X	X	MW-17, SCREEN #5
LABORATORY INSTRUCTIONS/COMMENTS											
LEVEL IV QA/QC											
SAMPLING COMMENTS											
SENT TO LAB AT 3°C											
RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)		DATE		RECEIVED BY (Signature)			
[Signature]		3/15/99		[Signature]							
COMPANY		TIME		COMPANY		TIME		COMPANY			
FWERC		1615		HUTALAB							



FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572.0265		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS		THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY												
PROJECT ADDRESS 4500 OAK GROVE DR. PASADENA, CA				ANALYSES REQUIRED VOCs (524.2) ☒ Total A5, G, PB (60.0/70.0) ☒ MAJOR ANIONS ☒ TDS ☒ Hex. Cr. ☒ Pesticide ☒ MS For VOCs ☒ MSD For VOCs ☒ MS/MSD For Metals ☒ QC For Hex. Cr. ☒																
SAMPLER (Name) J. BIRNBAUM		SAMPLER (Signature) [Signature]																		
LABORATORY MONTGOMERY WATSON LABS																				
REPORTS TO BE SENT TO MR. MARK CUTLER																				
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (524.2)	Total A5, G, PB (60.0/70.0)	MAJOR ANIONS	TDS	Hex. Cr.	Pesticide	MS For VOCs	MSD For VOCs	MS/MSD For Metals	QC For Hex. Cr.	LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)													
MW-991-102	0930	3/11/99	2	2x40ml	X			X										TRIP BLANK	3/11/99	
MW-991-103	1045		5	2x40ml 1x250ml 2x125ml	X			X	X			X	X					EQUIP. BLANK	3/11/99	
MW-991-006	0920		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X	X					MW-23, SCREEN #5		
MW-991-007	1020		6		X			X	X	X	X	X	X				X	MW-23, SCREEN #4		
MW-991-008	1130		2	2x40ml 2x250ml 2x125ml 1x500ml	X			X	X	X	X	X	X			X		MW-23, SCREEN #3		
MW-991-008MS	1130		2	2x40ml	X									X				MW-23-3 MS For VOCs		
MW-991-008MS	1130		2	2x40ml	X										X			MW-23-3 MSD For VOCs		
MW-991-009	1230		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X	X					MW-23, SCREEN #2		
MW-991-610	1315		6		X			X	X	X	X	X	X					MW-23, SCREEN #1		
LABORATORY INSTRUCTIONS/COMMENTS LEVEL IV QA/QC																		SAMPLING COMMENTS DELIVERED TO LAB AT 3°C		
RELINQUISHED BY (Signature) [Signature]		DATE 3-11-99	RECEIVED BY (Signature) [Signature]		DATE 3-11-99	RELINQUISHED BY (Signature) [Signature]		DATE 3-11-99	RECEIVED BY (Signature) [Signature]		DATE 3-11-99	RELINQUISHED BY (Signature) [Signature]		DATE 3-11-99	RECEIVED BY (Signature) [Signature]		DATE 3-11-99			
COMPANY Foster Wheeler		TIME 2:10	COMPANY M.W.		TIME 2:10	COMPANY M.W.		TIME 2:10	COMPANY M.W.		TIME 2:10	COMPANY M.W.		TIME 2:10	COMPANY M.W.		TIME 2:10			



FOSTER WHEELER ENVIRONMENTAL CORPORATION
CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572-0268-0000		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS			
PROJECT ADDRESS 4800 Oak Grove Drive, Pasadena, CA				ANALYSES REQUIRED VOCs (524.2) Total Metals Cr+As Pb (6010/7000) Anions + TDS Cr+6 ClO4 MS for VOCs MSD for VOCs MS/MSD for metals QC for Cr+6					
SAMPLER (Name) Robert Feldpausch		SAMPLER (Signature) <i>Robert Feldpausch</i>							
LABORATORY Montgomery Watson		REPORTS TO BE SENT TO Mark Cutler							
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL WATER SOIL OTHER (Describe)			LOCATION DEPTH QC CODE	
MW-991-100	1030	3/10/99	2	40 ml	X				trip blank 3/10/99 MW-17-4 equipment blank 3/10/99 MW-17-2 MW-17-1
MW-991-037	1115	3/10/99	6	2x 40 ml, 250 ml 500 ml, 125 ml	X				
MW-991-101	1245	3/10/99	5	2x 40 ml, 1x 250 ml 2x 125 ml	X				
MW-991-031	1300	3/10/99	6	2x 40 ml, 1x 250 ml 1x 500 ml, 2x 125 ml	X				
MW-991-010	1400	3/10/99	6	2x 40 ml, 1x 250 ml 1x 500 ml, 2x 125 ml	X				
End									
LABORATORY INSTRUCTIONS/COMMENTS LEVEL IV QA/QC								SAMPLING COMMENTS Samples Received at 3°C	
RELINQUISHED BY (Signature) <i>Robert J. Feld</i> DATE 3-10-99 TIME 3:10 COMPANY Foster Wheeler									
RECEIVED BY (Signature) <i>[Signature]</i> DATE 3-10-99 TIME 3:10 COMPANY M.W.				RELINQUISHED BY (Signature) DATE RECEIVED BY (Signature) DATE COMPANY COMPANY					



FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572.0260		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS																															
PROJECT ADDRESS 4000 OAK GLEN DR, PASADENA, CA				THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY <table border="1"> <thead> <tr> <th>LOCATION</th> <th>DEPTH</th> <th>QC CODE</th> </tr> </thead> <tbody> <tr> <td>TRIP BLANK</td> <td></td> <td>3/9/99</td> </tr> <tr> <td>EDJ.P. BLANK</td> <td></td> <td>3/9/99</td> </tr> <tr> <td>MW-22, SCREEN #5</td> <td></td> <td></td> </tr> <tr> <td>MW-22, SCREEN #4</td> <td></td> <td></td> </tr> <tr> <td>MW-22, SCREEN #3</td> <td></td> <td></td> </tr> <tr> <td>MW-22, SCREEN #2</td> <td></td> <td></td> </tr> <tr> <td>MW-22, SCREEN #1</td> <td></td> <td></td> </tr> <tr> <td>MW-22-1 MS FOR VOCs</td> <td></td> <td></td> </tr> <tr> <td>MW-22-1 MSD FOR VOCs</td> <td></td> <td></td> </tr> </tbody> </table>				LOCATION	DEPTH	QC CODE	TRIP BLANK		3/9/99	EDJ.P. BLANK		3/9/99	MW-22, SCREEN #5			MW-22, SCREEN #4			MW-22, SCREEN #3			MW-22, SCREEN #2			MW-22, SCREEN #1			MW-22-1 MS FOR VOCs			MW-22-1 MSD FOR VOCs		
LOCATION	DEPTH	QC CODE																																			
TRIP BLANK		3/9/99																																			
EDJ.P. BLANK		3/9/99																																			
MW-22, SCREEN #5																																					
MW-22, SCREEN #4																																					
MW-22, SCREEN #3																																					
MW-22, SCREEN #2																																					
MW-22, SCREEN #1																																					
MW-22-1 MS FOR VOCs																																					
MW-22-1 MSD FOR VOCs																																					
SAMPLER (Name) J. BRENNER		SAMPLER (Signature) <i>J. Brenner</i>																																			
LABORATORY MONTGOMERY WATSON LABS																																					
REPORTS TO BE SENT TO MR. MARK CUTLER																																					
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (524.2)	Total DS, Cr, Pb (6010/7000)	MAJOR ANIONS 3 TDS	Hex. Cr.	Perchlorate	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR METALS	QC FOR Cr																					
					WATER	SOIL	OTHER (Describe)																														
MW-991-098	1000	3/9/99	2	2x40ml	X			X																													
MW-991-099	1100	↓	5	2x40ml 1x250ml 2x125ml 1x50ml	X			X	X		X	X																									
MW-991-011	0915		6	2x40ml 1x250ml 2x125ml 1x50ml	X			X	X	X	X	X																									
MW-991-012	1030		6		X			X	X	X	X																										
MW-991-013	1130		6		X			X	X	X	X																										
MW-991-014	1315		6		X			X	X	X	X				X																						
MW-991-015	1430		7	2x40ml 2x250ml 2x125ml 1x50ml	X			X	X	X	X	X			X																						
MW-991-015ms	1430		2	2x40ml	X								X																								
MW-991-015msd	1430		2	2x40ml	X									X																							
END																																					
LABORATORY INSTRUCTIONS/COMMENTS LEVEL IV QA/QC																SAMPLING COMMENTS DELIVERED TO LAB AT 3°C																					
RELINQUISHED BY (Signature) <i>Robert Feld</i>		DATE 3-9-99	RECEIVED BY (Signature) <i>M. De Mesa</i>		RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)																													
COMPANY Foster Wheeler		TIME	COMPANY M.W.		COMPANY		TIME	COMPANY																													



FOSTER WHEELER ENVIRONMENTAL CORPORATION
CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF

PROJECT PL		OFS NO. 1572.0268		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS															
PROJECT ADDRESS 4800 OAK GROVE DR. PASADENA, CA				ANALYSES REQUIRED VOCs (S24.2) TOTAL AS-C-Pb (6010/200) MAJOR ANIONS ITDS Hex. Cr. Pentachloro MS FOR VOCs MSD FOR VOCs MS/MSD FOR METALS QC FOR Cr																	
SAMPLER (Name) J. BRENNER		SAMPLER (Signature) <i>J. Brenner</i>																			
LABORATORY MONTGOMERY WATSON LABS				THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY																	
REPORTS TO BE SENT TO M2. MARK CUTLER																					
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (S24.2)	TOTAL AS-C-Pb (6010/200)	MAJOR ANIONS	ITDS	Hex. Cr.	Pentachloro	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR METALS	QC FOR Cr	LOCATION	DEPTH	QC CODE	
					WATER	SOIL	OTHER (Describe)														
MW-991-096	0930	3/8/99	2	2x40ml	X			X										Trip Blank		3/8/99	
MW-991-097	1045	↓	5	2x40ml 1x250ml 2x125ml	X			X	X			X	X					Equip. Blank		3/8/99	
MW-991-068	0920		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X			X	X					MW-4, SCREEN #5		
MW-991-069	1035		6	↓ 2x40ml 2x250ml 2x125ml 1x500ml	X			X	X	X			X	X					MW-4, SCREEN #4		
MW-991-070	1130		7	2x40ml 2x250ml 2x125ml 1x500ml	X			X	X	X			X	X		X			MW-4, SCREEN #3		
MW-991-070.15	1130		2	2x40ml	X										X				MW-4.3 MS FOR VOCs		
MW-991-070.15	1130		2	2x40ml	X											X			MW-4.3 MSD FOR VOCs		
MW-991-072	1230		↓	6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X		X	X				X	MW-4, SCREEN #1		
LABORATORY INSTRUCTIONS/COMMENTS LEVEL II QA/QC																		SAMPLING COMMENTS DELIVERED TO LAB AT 3:00			
RELINQUISHED BY (Signature) <i>John J. Foster</i>		DATE 3/8/99	RECEIVED BY (Signature) <i>M. De Mota</i>		RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)													
COMPANY Foster Wheeler		TIME 5:00	COMPANY M.W.		COMPANY		TIME	COMPANY													



NUMBER 2728

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572.0268		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS		THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY											
PROJECT ADDRESS 4800 Oakgrove Dr. Pasadena, CA		SAMPLER (Name) David Tietje		SAMPLER (Signature) <i>David Tietje</i>		ANALYSES REQUIRED													
LABORATORY Montgomery Watson Labs																			
REPORTS TO BE SENT TO Mr. Mark Cutler																			
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOC's (524.2)	Total As, Cr, Pb	Major Anions + TDS	Hexaval Chromium	C10 ₄ (Pesticides)	MS For VOC's	MSD For VOC's	MS/MSD For Metals	QC for Cr & Pb	LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)												
MW-0991-056 MS	08:55	03/05/99	2	40 mL	X								X				MS For VOC's	3/5/99	
MW-0991-056 MSD	8:55		2	40 mL	X									X			MSD For VOC's		
MW-0991-056 MS/MSD	8:55		1	250 mL	X										X		MS/MSD For Metals		
MW-0991-056	8:55		6	40 mL x 2 1x 500 mL 1x 250 mL 2x 125 mL	X			X	X	X	X	X					MW-11, Screen #5		
MW-0991-057	10:30		6	2x 40 mL 1x 500 mL 1x 250 mL 2x 125 mL	X			X	X	X	X	X					MW-11, Screen #4		
MW-0991-058	11:30		6	2x 40 mL 1x 500 mL 1x 250 mL 2x 125 mL	X			X	X	X	X	X					MW-11, Screen #3		
MW-0991-059	13:20		6	2x 40 mL 1x 500 mL 1x 250 mL 2x 125 mL	X			X	X	X	X	X				X	MW-11, Screen #2, QC for Cr & Pb		
MW-0991-094	08:00		2	40 mL	X			X									Trip Blank	3/5/99	
MW-0991-095	12:45		5	2x 40 mL 2x 125 mL 1x 250 mL	X			X	X		X	X					Equipment Blank	3/5/99	
MW-0991-060	14:15		6	2x 40 mL 1x 500 mL 1x 250 mL 2x 125 mL	X			X	X	X	X	X					MW-11, Screen #1		
END																			
LABORATORY INSTRUCTIONS/COMMENTS Level IV QA/QC																	SAMPLING COMMENTS Delivered at 3°C		
RELINQUISHED BY (Signature) <i>[Signature]</i>		DATE 3/5/99	RECEIVED BY (Signature) <i>[Signature]</i>		DATE 3:55	RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)										
COMPANY Foster Wheeler		TIME 3:55	COMPANY M.W.			COMPANY		TIME	COMPANY										



FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT		OFS NO.		HAZARD IDENTIFICATION		TIME REQUIRED			
JPL		1572,0268		Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		NORMAL ☒ DAYS RUSH ☐ DAYS			
PROJECT ADDRESS		SAMPLER (Name)		SAMPLER (Signature)		ANALYSES REQUIRED			
4800 Oak Grove Dr. Pasadena, CA		Robert Feldpausch		Robert Feldpausch		VOCs (524.2) Total As, Cr, Pb Major Anions & TDS Hex. Cr C104 (Pesticides) MS, PFVOCs MSD PFVOCs MS/MSF for Metals QC for Cr			
LABORATORY		REPORTS TO BE SENT TO		SAMPLE MATERIAL		THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY			
Montgomery Watson Labs <td colspan="2">Mr. Mark Cutler</td> <th colspan="2">WATER SOIL OTHER (Describe)</th> <th colspan="2">LOCATION DEPTH QC CODE</th>		Mr. Mark Cutler		WATER SOIL OTHER (Describe)		LOCATION DEPTH QC CODE			
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL				
MW-991-043	0935	3/4/99	6	2x 40mL 1x 125mL 1x 250mL 1x 125mL	X		X	X	
MW-991-044	1100		6		X		X	X	
MW-991-045	1210		6		X		X	X	
MW-991-046	1315		6		X		X	X	
MW-991-047	1415		6		X		X	X	
MW-991-092	0900		2	2x 40mL	X		X		
MW-991-093	1015		5	2x 40mL 1x 125mL 1x 250mL 1x 125mL	X		X	X	
END									
LABORATORY INSTRUCTIONS/COMMENTS								SAMPLING COMMENTS	
Level IV QA/QC								Delivered to Lab at 30C	
RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)		DATE	RECEIVED BY (Signature)			
Robert J. Feldpausch		3/4/99	M. DE WES						
COMPANY		TIME	COMPANY		TIME	COMPANY			
Foster Wheeler		320	M.W.						



FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572-0268		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS		THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY											
PROJECT ADDRESS 4800 Oak Grove Dr. Pasadena, CA				ANALYSES REQUIRED															
SAMPLER (Name) Robert Feldpausch		SAMPLER (Signature) <i>Robert Feldpausch</i>		VOCs (5242) Total As Cr Pb Major Anions: TDS Hex Cr C10 ₄ (Perchlorate) MS For VOCs MSD For VOCs MS/MSD For Metals QC for Cr															
LABORATORY Montgomery Watson Labs																			
REPORTS TO BE SENT TO Mr. Mark Cutler																			
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (5242)	Total As Cr Pb	Major Anions: TDS	Hex Cr	C10 ₄ (Perchlorate)	MS For VOCs	MSD For VOCs	MS/MSD For Metals	QC for Cr	LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)												
MW-991-90	720	3/3/99	2	40 mL	X			X									Trip Blank	3/3/99	
MW-991-076	0800		6	2x 40 mL 1x 125 mL 1x 250 mL 1x 125 mL	X			X	X	X	X						MW-3, Screen #3		
MW-991-076ms	800		2	40 mL	X			X					X				MS For VOCs	MW-76	
MW-991-076msd	800		2	40 mL	X			X					X				MSD For VOCs	MW-76	
MW-991-076msd/as	800		1	250 mL	X			X						X			MS/MSD For Metals	MW-76	
MW-991-091	930		5	2x 40 mL 1x 125 mL 1x 250 mL 1x 125 mL	X			X	X		X						Equipment Blank		
MW-991-077	1000		6	2x 40 mL 1x 250 mL 1x 250 mL 1x 125 mL	X			X	X	X	X						MW-3, Screen #2		
MW-991-078	1115		6		X			X	X	X	X					X	MW-3, Screen #1		
END																			
LABORATORY INSTRUCTIONS/COMMENTS Level IV QA/QC																	SAMPLING COMMENTS Delivered to lab at 30°C		
RELINQUISHED BY (Signature) <i>Robert J. Feldpausch</i>		DATE 3-3-99	RECEIVED BY (Signature) <i>William</i>		RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)											
COMPANY Foster Wheeler		TIME 11:25	COMPANY MW		COMPANY		TIME	COMPANY											



FOSTER WHEELER ENVIRONMENTAL CORPORATION CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO.		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS				
PROJECT ADDRESS 4800 Oak Grove Dr. Pasadena, CA				ANALYSES REQUIRED						
SAMPLER (Name) R. Feldpausch		SAMPLER (Signature) R.F.		Voc's (5242) Total As, Cr, Pb (6010/7000) Major Anions & TDS Hex. Cr. C10_y (Residuals) Pb/Cr						
LABORATORY Montgomery Watson Labs										
REPORTS TO BE SENT TO Mr. Mark Cutler										
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)			
MW-991-088	1350	3/2/99	5	2x40mL 1x125mL 1x250mL 1x125mL	X			X	X	
MW-991-089	1410	3/2/99	2	2x40mL	X			X		
MW-991-074	1445	3/2/99	6	2x40mL 1x125mL 1x250mL 1x250mL 1x500mL	X			X	X	
MW-991-075	1600	3/2/99	6		X			X	X	X
END										
LABORATORY INSTRUCTIONS/COMMENTS Level IV QA/QC								SAMPLING COMMENTS Delivered to lab at 3°C		
RELINQUISHED BY (Signature) [Signature]		DATE 3/2/99	RECEIVED BY (Signature) [Signature]		DATE		RECEIVED BY (Signature)			
COMPANY Foster Wheeler		TIME 5:00	COMPANY M.W.		COMPANY		COMPANY			

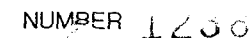


FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572.0268		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS		THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY													
PROJECT ADDRESS 4800 OAK GROVE DR., PASADENA, CA				ANALYSES REQUIRED																	
SAMPLER (Name) J. BRENNER		SAMPLER (Signature) <i>J. Brenner</i>		Vocs (524.2) Total As, G, Pb (Mn, Zn, Cd) MA, Li, Arsenic + TDS Hex. G. C104 QC For Gt																	
LABORATORY MONTGOMERY WATSON LABS																					
REPORTS TO BE SENT TO MR. MARK CUTLER										LOCATION		DEPTH		QC CODE							
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			Vocs (524.2)	Total As, G, Pb (Mn, Zn, Cd)	MA, Li, Arsenic + TDS	Hex. G.	C104	QC For Gt								
					WATER	SOIL	OTHER (Describe)														
MW-911-086	0930	3/1/99	2	2x40ml	X			X												TRIP BLANK 3/1/99	
MW-911-087	1330		5	2x40ml 1x25ml 2x125ml	X			X	X		X	X								EQUIP. BLANK 3/1/99	
MW-911-050	0905		6	2x40ml 1x125ml 2x125ml 1x250ml	X			X	X	X	X	X								MW-12, SCREEN #5	
MW-911-051	1010		6		X			X	X	X	X	X								MW-12, SCREEN #4	
MW-911-052	1115		6		X			X	X	X	X	X								MW-12, SCREEN #3	
MW-911-053	1210		5	2x40ml 1x125ml 2x125ml	X			X	X		X	X								MW-12-2 (DUPLICATE)	
MW-911-054	1225		6	2x40ml 1x125ml 2x125ml 1x250ml	X			X	X	X	X	X								MW-12, SCREEN #2	
MW-911-055	1445		6		X			X	X	X	X	X	X							MW-12, SCREEN #1	
LABORATORY INSTRUCTIONS/COMMENTS														SAMPLING COMMENTS							
LEVEL IV QA/QC														DELIVERED AT 3°C							
RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)		DATE		RECEIVED BY (Signature)		RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)		RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)	
				<i>M. W.</i>																	
COMPANY		TIME		COMPANY		TIME		COMPANY		TIME		COMPANY		TIME		COMPANY		TIME		COMPANY	



CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

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FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572.0268		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS											
PROJECT ADDRESS 4800 OAK GROVE DR., PASADENA, CA				ANALYSES REQUIRED VOCs (524.2) ☒ Total As, Cr, Pb (6210/7000) ☒ MSOD ☒ A-16.55-4 TDS ☒ Hex. Cr. ☒ Perchlorate ☒ MS for VOCs ☒ MS for VOCs ☒ MS/MSD for Metals ☒ QC for G+ ☒													
SAMPLER (Name) D. BRENNER		SAMPLER (Signature) <i>[Signature]</i>															
LABORATORY MONTGOMERY WATSON LABS																	
REPORTS TO BE SENT TO MR. MARK CUTLER																	
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (524.2)	Total As, Cr, Pb (6210/7000)	MSOD	A-16.55-4 TDS	Hex. Cr.	Perchlorate	MS for VOCs	MS for VOCs	MS/MSD for Metals	QC for G+
					WATER	SOIL	OTHER (Describe)										
MW 991-109	1120	3/16/99	5	2x40ml 1x250ml 2x125ml	X			X	X			X	X				
MW 991-110	1130	↓	2	2x40ml	X			X									
MW 991-016	0920		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X					
MW 991-017	1020		6	↓	X			X	X	X	X	X					
MW 991-018	1125		7	2x40ml 2x250ml 2x125ml 1x500ml	X			X	X	X	X	X			X		
MW 991-018MS	1125		2	2x40ml	X								X				
MW 991-018MS2	1125		2	2x40ml	X									X			
MW 991-019	1225		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X	X				
MW 991-020	1315		6	↓	X			X	X	X	X	X	X			X	
LABORATORY INSTRUCTIONS/COMMENTS LEVEL IV QA/QC																	
SAMPLING COMMENTS DELIVERED AT 3°C																	
RELINQUISHED BY (Signature) <i>[Signature]</i>		DATE 3/16/99	RECEIVED BY (Signature) <i>[Signature]</i>		RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)									
COMPANY Foster Wheeler		TIME 1530	COMPANY MWLD		COMPANY		TIME	COMPANY									



FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT		OFS NO.		HAZARD IDENTIFICATION		TIME REQUIRED		
JPL		1572.0268		Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		NORMAL ☒ DAYS RUSH ☐ DAYS		
PROJECT ADDRESS		SAMPLER (Name)		SAMPLER (Signature)		ANALYSES REQUIRED		
4800 OAK GROVE DR, PASADENA, CA		J. BRENNER				Vocs (Std. 2) Total As, Cr, Pb (6010/7000) Mass Conc. Analysis + TDS Hex. Cr. ClO4 DC For Cr-6		
LABORATORY		REPORTS TO BE SENT TO		SAMPLE MATERIAL		THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY		
MONTGOMERY WATSON LABS		MR. MARK CUTLER		WATER SOIL OTHER (Describe)		LOCATION DEPTH QC CODE		
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			
MW-991-112	1500	3/17/99	2	2x40ml	X		X	
MW-991-111	1415		5	2x40ml 1x250ml 2x125ml	X		X X	
MW-991-072	0930		6	2x40ml 1x250ml 2x125ml 1x500ml	X		X X X	
MW-991-071	0945		5	2x40ml 1x250ml 2x125ml	X		X X	
MW-991-004	1320		6	2x40ml 1x250ml 2x125ml 1x500ml	X		X X X	
MW-991-005	1415		6	2x40ml 1x250ml 2x125ml 1x500ml	X		X X X	
LABORATORY INSTRUCTIONS/COMMENTS								SAMPLING COMMENTS
Level IV QA/QC								
RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)		DATE	RECEIVED BY (Signature)		
		3-17-99						
COMPANY		TIME	COMPANY		TIME	COMPANY		
FWENC		17:25	M.W.					

DELIVERED AT 3°C



FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572.0268.0000		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ _____ DAYS RUSH ☐ _____ DAYS				
PROJECT ADDRESS 4800 Oak Grove Drive, Pasadena, CA				ANALYSES REQUIRED						
SAMPLER (Name) Jeff Brenner		SAMPLER (Signature) 		Vol's (524.2) Total As, Cr, Pb (Gross / Free) MAJOR ANIONS + TDS HX Cr ClO ₄ Qc for C ₁₄						
LABORATORY Montgomery Watson										
REPORTS TO BE SENT TO Mark Cutler										
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)			
MW-991-113	0845	3/18/99	2	2x40ml	X			X		
MW-991-114	0915	3/18/99	5	2x40, 1x250, 2x125	X			X	X	
MW-991-038	0930	3/18/99	6	2x40, 1x250, 1x500, 2x125	X			X	X	X
MW-991-040	1110	3/18/99	2	2x40ml	X			X		
MW-991-003	1425	3/18/99	6	2x40, 1x250, 1x500, 1x125	X			X	X	
LABORATORY INSTRUCTIONS/COMMENTS LEVEL IV QA/QC								SAMPLING COMMENTS Delivered at 3°C		
RELINQUISHED BY (Signature) 		DATE 3-18-99	RECEIVED BY (Signature) 		RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)		
COMPANY FWENC		TIME 15:45	COMPANY M.W.		COMPANY		TIME	COMPANY		



FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572.0268		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS																						
PROJECT ADDRESS 4800 CREEK GROVE DR. PASADENA CA				ANALYSES REQUIRED VOCs (S242) ☒ TOX AS C Pb (600/1000) ☒ MAJOR ANIONS ☒ TDS ☒ HEX. Cr. ☒ PEROXIDANT ☒ OC FAL Cr Cr ☒																								
SAMPLER (Name) J. BRENNER		SAMPLER (Signature) <i>[Signature]</i>																										
LABORATORY MONTGOMERY WATSON LABS																												
REPORTS TO BE SENT TO MR. MARK CUTLER				THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY <table border="1"> <thead> <tr> <th>LOCATION</th> <th>DEPTH</th> <th>QC CODE</th> </tr> </thead> <tbody> <tr> <td>TRIP BLANK</td> <td>3/19/99</td> <td></td> </tr> <tr> <td>MW-13</td> <td></td> <td></td> </tr> <tr> <td>MW-13 DSD</td> <td></td> <td></td> </tr> <tr> <td>MW-7</td> <td></td> <td></td> </tr> <tr> <td>FIELD BLANK</td> <td></td> <td></td> </tr> <tr> <td>MW-16</td> <td></td> <td></td> </tr> </tbody> </table>				LOCATION	DEPTH	QC CODE	TRIP BLANK	3/19/99		MW-13			MW-13 DSD			MW-7			FIELD BLANK			MW-16		
LOCATION	DEPTH	QC CODE																										
TRIP BLANK	3/19/99																											
MW-13																												
MW-13 DSD																												
MW-7																												
FIELD BLANK																												
MW-16																												
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL																							
					WATER	SOIL	OTHER (Describe)																					
MW 991-115	0800	3/19/99	2	2x40ml	X																							
MW 991-045	1035	↓	6	2x40ml 1x250ml 2x125ml 1x500ml	X																							
MW 991-045	1045		5	2x40ml 1x250ml 2x125ml 1x500ml	X																							
MW 991-065	1540		6	2x40ml 1x250ml 2x125ml 1x500ml	X																							
MW 991-200	1545		5	2x40ml 1x250ml 2x125ml 1x500ml	X																							
MW 991-041	1730		6	2x40ml 1x250ml 2x125ml 1x500ml	X																							
LABORATORY INSTRUCTIONS/COMMENTS LEVEL IV CA/QC <i>[Signature]</i>																												
SAMPLING COMMENTS DELIVERED AT 3°C																												
RELINQUISHED BY (Signature) <i>[Signature]</i>		DATE 3-19-99	RECEIVED BY (Signature) <i>[Signature]</i>		DATE	RECEIVED BY (Signature)																						
COMPANY Foster Wheeler		TIME 18:09	COMPANY K. CO.		TIME	COMPANY																						



FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL			OFS NO. 1572.0268			HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐			TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS			THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY							
PROJECT ADDRESS 4800 OAK GROVE DR PASADENA CA						ANALYSES REQUIRED VOCs (524.2) ☒ Total As Cr Pb (6010/7000) ☒ Major Anions ☒ 3-TDS ☒ Hex. Cr ☒ Pesticide ☒ QC for Cr ☒													
SAMPLER (Name) J. Branner			SAMPLER (Signature) <i>J. Branner</i>																
LABORATORY MONTGOMERY WATSON LABS																			
REPORTS TO BE SENT TO MR. MARK COTER																			
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL												LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)												
MW-991-066	0800	3/22/99	2	2x40ml	X			X									TRIP BLANK	3/22/99	
MW-991-066	1035	↓	6	2x40ml 1x25ml 2x125ml 1x500ml	X			X	X	X	X	X					MW-6		
MW-991-066	1230		6	↓	X			X	X	X	X	X					MW-10		
MW-991-062	1240		5	2x40ml 1x25ml 2x125ml	X			X	X	X	X	X					MW-10 (DUPLICATE)		
MW-991-067	1445		6	2x40ml 1x25ml 2x125ml 1x500ml	X			X	X	X	X	X	X				MW-5		
LABORATORY INSTRUCTIONS/COMMENTS																		SAMPLING COMMENTS	
LEVEL III QA/QC																		DELIVERED AT 3°C	
RELINQUISHED BY (Signature) <i>J. Branner</i>		DATE 3-22-99	RECEIVED BY (Signature) <i>M. De Mesa</i>		RELINQUISHED BY (Signature)		DATE	RECEIVED BY (Signature)											
COMPANY Foster Wheeler		TIME 16:42	COMPANY M.W.		COMPANY		TIME	COMPANY											

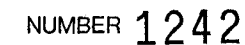


FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

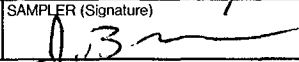
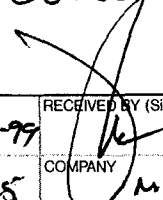
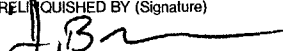
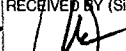
PAGE 1 OF 1

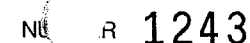
PROJECT		OFS NO.		HAZARD IDENTIFICATION				TIME REQUIRED		THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY									
PROJECT ADDRESS																			
JPL		1572.0268		Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐				NORMAL ☒ DAYS RUSH ☐ DAYS											
PROJECT ADDRESS																			
4800 Oak Grove Dr. Pasadena																			
SAMPLER (Name)		SAMPLER (Signature)		ANALYSES REQUIRED															
J. Brenner		J. Brenner		VOCs (S24.2) Total As, Cr, Pb (6010/7000) Major Anions 3 TDS H ₂ O ClO ₄ MS for VOCs MS for VOCs MS for VOCs QC for Cr ⁶⁺															
LABORATORY																			
MONTGOMERY WATSON LABS																			
REPORTS TO BE SENT TO																			
MR. MARK CUTLER																			
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL											LOCATION	DEPTH	QC CODE	
					WATER	SOIL	OTHER (Describe)												
MW-991-017	0800	3/23/99	2	2x40ml	X			X									Trip Blank 3/23/99		
MW-991-018	0755		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X						MW-8		
MW-991-013	0915		6		X			X	X	X	X						MW-9		
MW-991-019	1025		6		X			X	X	X	X						MW-1		
MW-991-012	1125		7	2x40ml 2x250ml 2x125ml 1x500ml	X			X	X	X	X		X				MW-15		
MW-991-012ms	1125		2	2x40ml	X							X					MW-15 MS for VOCs		
MW-991-012ms	1125		2	2x40ml	X							X					MW-15 MS for VOCs		
LABORATORY INSTRUCTIONS/COMMENTS																	SAMPLING COMMENTS		
Level IV QA/QC																	Deliver at 3°C		
RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)		DATE		RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)							
J. Brenner		3-23-99		M. DE WESA															
COMPANY		TIME		COMPANY		TIME		COMPANY		TIME		COMPANY							
FWENC		15:38		M.W.															



CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572.0268		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ _____ DAYS RUSH ☐ _____ DAYS																															
PROJECT ADDRESS 4800 OAK GROVE DR. PASADENA CA				ANALYSES REQUIRED																																	
SAMPLER (Name) J. BRENNER		SAMPLER (Signature) 																																			
LABORATORY MONTGOMERY WATSON LABS																																					
REPORTS TO BE SENT TO M.R. MARK CUTLER				THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY <table border="1"><thead><tr><th>LOCATION</th><th>DEPTH</th><th>QC CODE</th></tr></thead><tbody><tr><td>MW-4, SCREEN</td><td></td><td>#2</td></tr><tr><td>MW-2st, SCREEN</td><td></td><td>#1</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>				LOCATION	DEPTH	QC CODE	MW-4, SCREEN		#2	MW-2st, SCREEN		#1																					
LOCATION	DEPTH	QC CODE																																			
MW-4, SCREEN		#2																																			
MW-2st, SCREEN		#1																																			
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL WATER SOIL OTHER (Describe)			14-DIOXANE	NDMA																												
MW-991-072	0930	3/17/99	2	2x10g	X				X	X																											
MW-991-005	1415	↓	2	↓	X				X	X																											
LABORATORY INSTRUCTIONS/COMMENTS LABOR II QA/QC 										SAMPLING COMMENTS DELIVERED AT 3°C																											
RELINQUISHED BY (Signature) 		DATE 3-17-99		RECEIVED BY (Signature)  M. DE WESS		RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)																											
COMPANY RWENC		TIME 17:25		COMPANY M.W.		COMPANY		TIME		COMPANY																											



PAGE 1 OF 1

F-2

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FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572.026E		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS		THE INFORMATION IN THIS SECTION WILL NOT BE AVAILABLE TO THE LABORATORY														
PROJECT ADDRESS 4800 OAK GROVE DR, PASADENA, CA				ANALYSES REQUIRED																		
SAMPLER (Name) J. BRENNER		SAMPLER (Signature) <i>J. Brenner</i>																				
LABORATORY MONTGOMERY WATSON																						
REPORTS TO BE SENT TO MR. MARK CUTER																						
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			14- DIOXANE	NDMA											LOCATION	DEPTH	QC CODE
					WATER	SOIL	OTHER (Describe)															
MW-991-049	1035	3/19/99	2	2 x 1.0L	X			X	X										MW-13			
MW-991-049MS	1035		1	1 x 1.0L	X			X											MW-13	MS	(Diox)	
MW-991-049MSD	1035		1	1 x 1.0L	X			X											MW-13	MSD	(Diox)	
MW-991-065	1540		2	2 x 1.0L	X			X	X										MW-7			
MW-991-041	1730		2	2	X			X	X										MW-16			
LABORATORY INSTRUCTIONS/COMMENTS																				SAMPLING COMMENTS DELIVERED At 3°C		
Level IV QA/QC																						
RELINQUISHED BY (Signature) <i>J. Brenner</i>		DATE 3-19-99		RECEIVED BY (Signature) <i>M. O. Mesa</i>		DATE		RECEIVED BY (Signature)														
COMPANY FWENC		TIME 18:00		COMPANY M.W.		COMPANY		COMPANY														