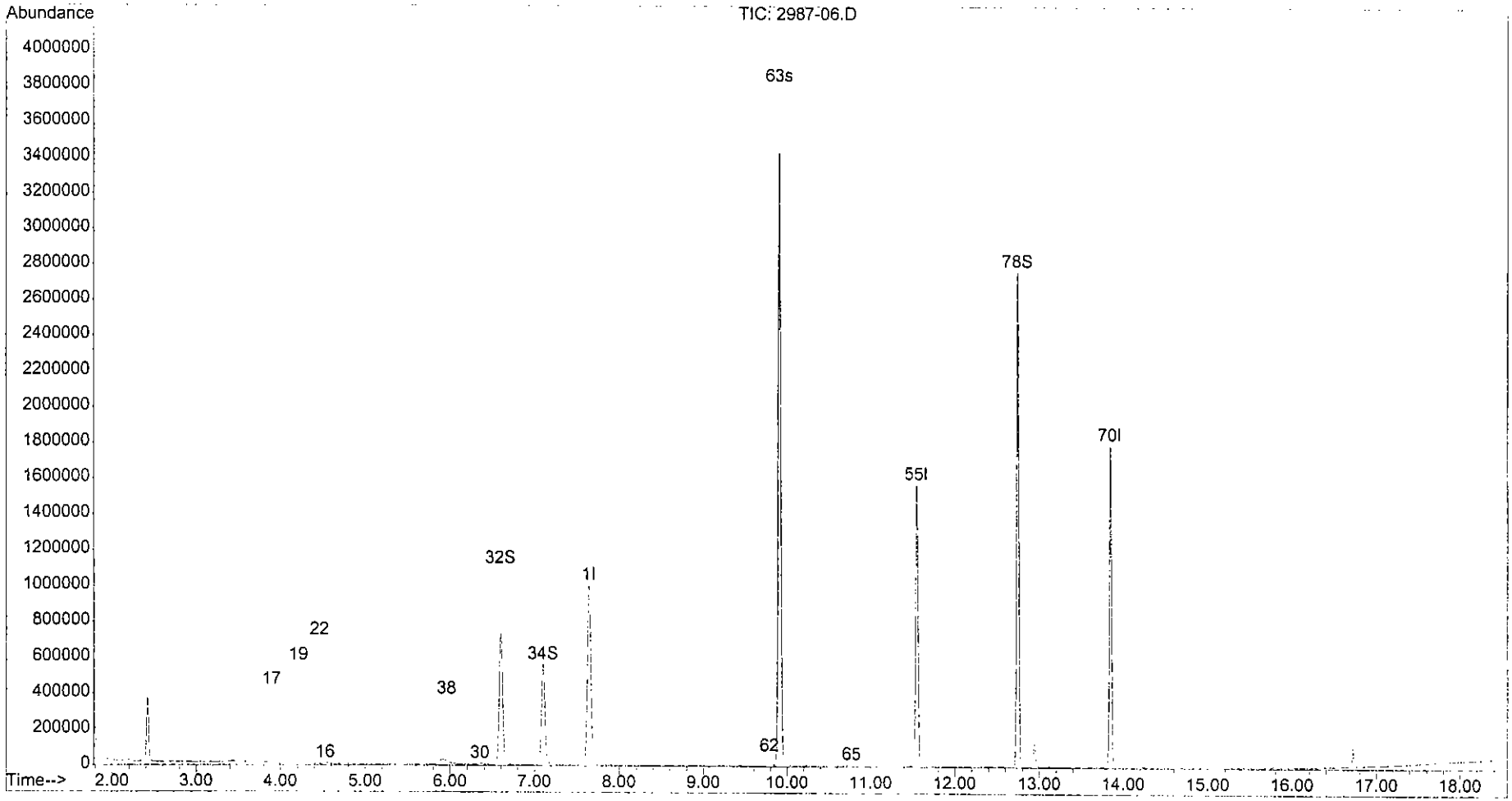
Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G2456\2987-06.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : May 13 17:16 2003
Method Update: Thu Apr 10 14:53 2003
Quant. Time : May 14 10:56 2003
Print Time : Wed May 14 11:30 2003
Miscleneous :

Sample : f=1 ms 524.2
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5355



FORM-4A

Applied P & Ch Laboratory

Method Blank Summary for Method 524.2

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	33015
Project ID:	JPL	Project No:	04-4428.10	Analysis Date:	05/13/03
		Sample Matrix:	Water	Analysis Time:	15:55
Sample ID:	**03G2456-MB-01**	Batch No:	03G2456	Instrument ID:	GC/MS: A
Lab Sample ID:	03G2456-MB-01	Data File Name:	G2456K01	GC Column:	HP-VOC
		Heated Purge: (Y/N)	N	Column ID:	0.20 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	03G2456-LCS-01	03G2456-LCS-01	Lab Control Spike	G2456L01	05/13/03	13:41
2	MW-23-5MS	03-2987-6MS	Matrix Spike	G2456M01	05/13/03	14:08
3	MW-23-5MSD	03-2987-6MSD	Matrix Spike Duplicate	G2456N01	05/13/03	14:35
4	DUPE-5-2Q03	03-3015-1	Field Sample	3015-01	05/13/03	19:59
5	EB-9-5/1/03	03-3015-2	Field Sample	3015-02	05/13/03	20:26
6	MW-3-1	03-3015-3	Field Sample	3015-03	05/13/03	20:53
7	MW-3-2	03-3015-4	Field Sample	3015-04	05/13/03	21:20
8	MW-3-3	03-3015-5	Field Sample	3015-05	05/13/03	21:47
9	MW-3-4	03-3015-6	Field Sample	3015-06	05/13/03	22:14
10	MW-3-5	03-3015-7	Field Sample	3015-07	05/13/03	22:41
11	TB-9-5/1/03	03-3015-8	Field Sample	3015-08	05/13/03	23:08
12						
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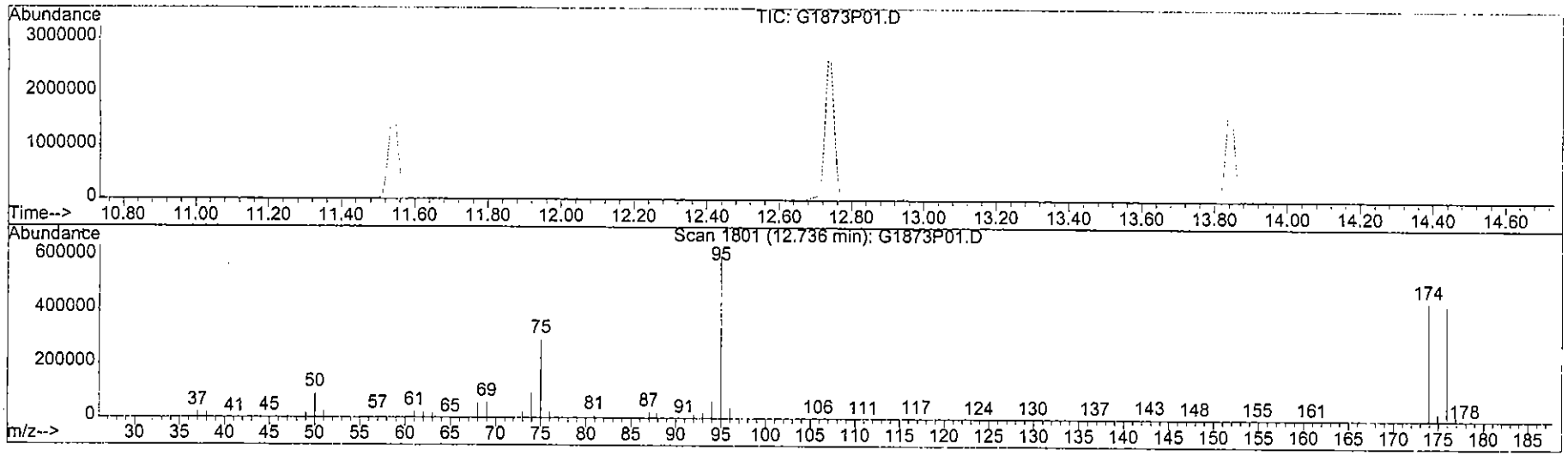
BFB

Data File : C:\MSDCHEM\1\DATA\03G1873\G1873P01.D
Acq On : 30 Mar 2003 2:29 pm
Sample : ##03g1873,w
Misc :
MS Integration Params: Lscint.p
Method : C:\MSDCHEM\1\METHODS\826WA010.M (RTE Integrator)
Title : **Applied P &Ch Lab** EPA 8260

Vial: 1
Operator: zou
Inst : GCMS-A
Multiplr: 1.00



Spectrum Information: Scan 1801

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	92424	PASS
75	95	30	60	48.4	293504	PASS
95	95	100	100	100.0	606592	PASS
96	95	5	9	6.6	39960	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	72.6	440576	PASS
175	174	5	9	7.4	32632	PASS
176	174	95	101	98.1	432384	PASS
177	176	5	9	6.7	29056	PASS

G187[illegible]P01.D 826WA010.M Mon Mar 31 17:15:05 [illegible]03

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name : APPLIED P & CH LAB Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 03-3015

Lab File ID: G1873P01 BFB Injection Date: 3/30/03

Instrument ID: GCMS-A BFB Injection Time: 1429

GC Column: HP-VOC ID: 0.20 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.2
75	30.0 - 60.0% of mass 95	48.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	72.6
175	5.0 - 9.0% of mass 174	5.4 (7.4)1
176	95.0 - 101.0% of mass 174	71.3 (98.1)1
177	5.0 - 9.0% of mass 176	4.8 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0003	10-0003	10-00003.D	3/30/03	1550
02	VSTD002	10-0002	10-0002.D	3/30/03	1643
03	VSTD010	10-0010	10-0010.D	3/30/03	1737
04	VSTD020	10-0020	10-0020.D	3/30/03	1830
05	VSTD040	10-0040	10-0040.D	3/30/03	1924
06	VSTD060	10-0060	10-0060.D	3/30/03	2017
07					
08					
09					
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14					
15					
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20					
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INITIAL CALIBRATION SUMMARY

Method File	826WA010		
Last Calibration Update	Mon Mar 31 10:32:37 2003		
Level 1 File Name	10-0003A.D	Level 1 ID	.3
Level 2 File Name	10-0002.D	Level 2 ID	2
Level 3 File Name	10-0010.D	Level 3 ID	10
Level 4 File Name	10-0020.D	Level 4 ID	20
Level 5 File Name	10-0040.D	Level 5 ID	40
Level 6 File Name	10-0060.D	Level 6 ID	60
Level 7 File Name	10-0020.D	Level 7 ID	cc

Compound Name	Level 1 Response	Level 2 Response	Level 3 Response	Level 4 Response	Level 5 Response	Level 6 Response	Level 7 Response	Coeff X^0	Coeff X^1 / ave RF	Coeff X^2	R^2 / RSD
1 Fluorobenzene	1402185	1401700	1425417	1419632	1412433	1400715	-1	------	------	------	------
3 di-Cl-di-F-methane	10847	65256	344729	715366	1537518	1972057	-1	0.0120	0.2437	0.0000	0.9908
4 Chloromethane	14243	71226	336320	702444	1333124	1882279	-1	0.0000	0.2560	0.0000	0.1632
2 F114	5136	33302	171012	381760	733605	974692	-1	0.0000	0.1235	0.0000	0.0577
5 vinyl chloride	10455	66474	343348	725558	1503869	2051199	-1	0.0000	0.2487	0.0000	0.0429
6 bromomethane	7777	45613	200938	379493	785517	1151335	-1	0.0000	0.1497	0.0000	0.1341
7 chloroethane	10022	41956	214551	459359	920537	1294623	-1	0.0034	0.1562	0.0000	0.9986
8 tri-Cl-F-methane	16293	99495	515840	1121757	2241613	2920268	-1	0.0000	0.3739	0.0000	0.0580
91 Acetonitrile X10	20424	83795	408495	988740	1981444	2545093	-1	0.0000	0.0317	0.0000	0.0940
9 acrolein X10	11130	69228	329654	676073	1354015	1908483	-1	0.0000	0.0237	0.0000	0.0326
11 acetone X10	28459	104684	332887	639556	1203415	1741743	-1	0.0375	0.0202	0.0000	0.9998
12 ethyl ether X5	27298	176671	881117	1890393	3629304	5150102	-1	0.0000	0.1273	0.0000	0.0313
13 11-dichloroethene	13394	82732	420004	911032	1792018	2421004	-1	0.0000	0.3057	0.0000	0.0478
14 Iodomethane	3342	21843	176232	629497	1424862	2050698	-1	-0.0514	0.2544	0.0000	0.9940
15 F-113	9667	60030	305521	677448	1343471	1714509	-1	0.0000	0.2231	0.0000	0.0641
16 acrylonitrile X10	14334	91693	475343	863383	1929340	2786466	-1	0.0000	0.0330	0.0000	0.0416
17 carbon disulfide	42449	230738	1170329	2572254	5155522	6945088	-1	0.0000	0.8830	0.0000	0.0847
94 Isopropyl Alcoholx10	3968	8959	17262	31346	53652	-1	-1	0.0037	0.0009	0.0000	0.9956
18 methylene chloride	18179	66074	311459	637490	1291619	1876442	-1	0.0027	0.2242	0.0000	0.9997
19 t-12-di-Cl-ethene	11094	66357	348511	724140	1535637	2159090	-1	0.0000	0.2548	0.0000	0.0499
20 t-Bu-Me-ether	18835	120775	641266	1340185	2809850	4095292	-1	0.0000	0.4642	0.0000	0.0552
95 Tert butyl alcoholx10	-1	14346	35248	105910	309880	244429	-1	0.0000	0.0039	0.0000	0.3363

94 allyl chloride	-1	83795	408495	988740	1981444	2545093	-1	0.0000	0.3175	0.0000	0.0940
21 11-dichloroethane	18621	112842	581855	1186542	2504419	3588511	-1	0.0000	0.4236	0.0000	0.0406
97 propionitrile·	136	3425	17147	28049	74203	104848	-1	0.0000	0.0119	0.0000	0.1029
22 c-12-di-Cl-ethene	10945	65228	346763	722727	1519062	2211008	-1	0.0000	0.2538	0.0000	0.0532
23 22-Dichloropropane	13116	74347	413858	914214	1915303	2688487	-1	0.0000	0.3080	0.0000	0.0854
24 Br-Cl-methane	4057	27612	140152	286516	593528	865536	-1	0.0000	0.1004	0.0000	0.0322
25 chloroform	22993	116777	597861	1214377	2494537	3609401	-1	0.0000	0.4269	0.0000	0.0230
26 tetrahydrofuranX5	6239	38117	198933	336272	790362	1173186	-1	0.0000	0.0274	0.0000	0.0727
98 Diisopropyl ether	28399	185552	986248	1893560	4112776	5938451	-1	0.0000	0.6884	0.0000	0.0370
27 Di-Br-F-Me (surr)	11084	60638	307963	643560	1311195	1902499	-1	0.0000	0.2302	0.0000	0.0761
99 ETBE	20365	132029	735024	1518648	3294293	4912092	-1	0.0000	0.5289	0.0000	0.0911
29 1,2-Di-Cl-Et-d4 (S1)	10836	56975	284710	593863	1176956	1708276	-1	0.0000	0.2136	0.0000	0.1024
30 12-dichloroethane	3534	21980	108018	227029	439257	631642	-1	0.0000	0.0785	0.0000	0.0409
32 vinyl acetate X5	63860	414860	2230480	4194574	9370203	13254307	-1	0.0000	0.3092	0.0000	0.0447
92 Nitro Methane(x10)	16099	98654	503941	1026662	2197883	3164808	-1	0.0000	0.0367	0.0000	0.0434
33 2-butanoneMEK X10	23496	109206	386182	800835	1835004	2621391	-1	0.0000	0.0316	0.0000	0.1475
93 Ethyl Acetate x2	10913	69080	401801	597072	1689794	2243912	-1	0.0000	0.1305	0.0000	0.1315
34 111-trichloroethane	16490	98389	517930	1091679	2332259	3272931	-1	0.0000	0.3822	0.0000	0.0576
35 11-Di-Cl-propene	13873	81037	444769	957310	2063877	2822864	-1	0.0000	0.3282	0.0000	0.0784
36 benzene	42274	259026	1393453	2994641	5972223	8547309	-1	0.0000	1.0059	0.0000	0.0500
37 CCl4	13612	78957	439090	920143	2050691	2812796	-1	0.0000	0.3225	0.0000	0.0840

Compound Name	Level 1 Response	Level 2 Response	Level 3 Response	Level 4 Response	Level 5 Response	Level 6 Response	Level 7 Response	Coeff X^0	Coeff X^1 / ave RF	Coeff X^2	R^2 / RSD
100 Isobutyl alcoholx10	-1	4726	14196	70592	117355	167235	-1	------	------	------	------
38 thiophene	20269	128315	706455	1525558	3083581	4494310	-1	0.0000	0.5088	0.0000	0.0701
39 12-di-Cl-propane	9049	55011	298031	645043	1275427	1856699	-1	0.0000	0.2157	0.0000	0.0542
40 trichloroethene	11826	69743	368318	809129	1664792	2353937	-1	0.0000	0.2747	0.0000	0.0633
41 dibromomethane	4302	28599	144754	304462	609801	879445	-1	0.0000	0.1043	0.0000	0.0267
101 TAME	17251	113069	647400	1450103	2994595	4479028	-1	0.0000	0.4736	0.0000	0.1247
42 Br-di-Cl-methane	15590	77950	410468	873215	1744848	2551794	-1	0.0000	0.2972	0.0000	0.0456
43 Me-methacrylate	3581	24393	141762	302947	655401	947564	-1	0.0000	0.1012	0.0000	0.1285
44 2-ClEt-Vi-ether10	4864	41895	276079	689334	1551121	2307334	-1	-0.0618	0.0285	0.0000	0.9983
45 c-13-di-Cl-propene	12016	78024	440533	972065	1981413	2911762	-1	0.0000	0.3188	0.0000	0.1009
46 t-1,3-dichloropropene	8432	57535	340215	757085	1619889	2349418	-1	-0.0204	0.2846	0.0000	0.9990
47 Chlorobezene-d5	988828	990172	1024243	1043945	1007385	1007143	-1	0.0000	1.0000	0.0000	0.0000

48 112-tri-Cl-Et	6594	39408	204447	433455	862039	1245491	-1	0.0000	0.2081	0.0000	0.0427
49 13-di-Cl-propane	11088	71526	366282	776054	1541261	2185204	-1	0.0000	0.3681	0.0000	0.0258
50 Et methacrylate	6698	49628	294482	634508	1395321	2018328	-1	-0.0285	0.3411	0.0000	0.9981

Compound Name	Level 1 Response	Level 2 Response	Level 3 Response	Level 4 Response	Level 5 Response	Level 6 Response	Level 7 Response	Coeff X^0	Coeff X^1 / ave RF	Coeff X^2	R^2 / RSD
51 di-Br-Cl-methane	9920	46263	252673	533500	1110440	1612394	-1	0.0000	0.2556	0.0000	0.0645
52 bromoform	4340	23486	130929	280129	598350	865181	-1	0.0000	0.1364	0.0000	0.0858
53 1,4-dichlorobutane-2	11561	63322	334210	699010	1415056	1998159	-1	0.0000	0.3325	0.0000	0.0355
54 MIBK	4102	26191	136436	276346	635297	913350	-1	0.0000	0.1413	0.0000	0.0861
55 toluene-d8	40331	232082	1249806	2759643	5492872	7796171	-1	0.0000	1.2734	0.0000	0.0606
56 toluene	44000	273555	1493556	3279721	6436941	9003846	-1	0.0000	1.4968	0.0000	0.0523
57 2-hexanone X5	18952	87657	465288	979048	2031915	2868357	-1	0.0000	0.0938	0.0000	0.0499
58 12-dibromoethane	5481	37268	194331	412749	842422	1213791	-1	0.0000	0.1950	0.0000	0.0469
59 tetra-Cl-ethene	11997	71322	368264	825724	1672283	2271115	-1	0.0000	0.3851	0.0000	0.0608
60 chlorobenzene	30395	178605	943078	2046929	4023278	5789041	-1	0.0000	0.9640	0.0000	0.0484
61 1112-tetra-Cl-Et	8360	55612	304924	672900	1358601	1988434	-1	0.0000	0.3081	0.0000	0.0799
62 1,4-Dichlorobenzene-d4	475933	477645	496828	495828	473305	466660	-1	0.0000	1.0000	0.0000	0.0000
63 1-chlorohexane	5749	32590	181618	420352	875550	1173405	-1	0.0000	0.4025	0.0000	0.1081
64 Et-Bz	49158	304901	1668070	3648966	7272072	10104426	-1	0.0000	3.5203	0.0000	0.0668
65 m/p-Xylenes X2	77987	475103	2595435	5637783	10918251	14861766	-1	0.0000	2.7016	0.0000	0.0550
66 styrene	26636	178864	994724	2170590	4313332	6092272	-1	0.0000	2.0638	0.0000	0.0850
67 o-xylene	37736	237765	1338059	2902842	5706977	7984326	-1	0.0000	2.7697	0.0000	0.0708
68 1122-Tetra-Cl-Et	7232	45751	228508	474459	964820	1348818	-1	0.0000	0.4859	0.0000	0.0389
69 123-tri-Cl-Pr	2281	12812	66381	135429	274408	386049	-1	0.0000	0.1411	0.0000	0.0708
70 4-Br-1-F-Bz (S3)	14323	68592	356594	767770	1533349	2198848	-1	0.0000	0.7610	0.0000	0.0545
71 isopropylbenzene	46404	281854	1625443	3621879	7283454	10015298	-1	0.0000	3.4248	0.0000	0.0953
72 bromobenzene	10720	66727	360820	778815	1562791	2219172	-1	0.0000	0.7632	0.0000	0.0613
92 t-1,4-dichloro-2-butene	721	5096	32426	74114	174039	258524	-1	-0.0165	0.0943	0.0000	0.9958
73 n-propylbenzene	14176	82858	463721	1046004	2147440	2993047	-1	0.0000	1.0086	0.0000	0.0966
74 2-Cl-Toluene	12148	71589	398415	872352	1768651	2511389	-1	0.0000	0.8522	0.0000	0.0789
75 4-Cl-Toluene	12996	74825	405718	882193	1787025	2516053	-1	0.0000	0.8737	0.0000	0.0698
76 135-tri-Me-Benzene	41200	245516	1403326	3075105	6157544	8461302	-1	0.0000	2.9426	0.0000	0.0809
77 4-iso-Pr-toluene	43393	271628	1518534	3283328	6877345	9299329	-1	0.0000	3.2006	0.0000	0.0870
78 124-tri-Me-Benzene	44257	256888	1411774	3112878	6178974	8636660	-1	0.0000	3.0196	0.0000	0.0703
79 tert-butylbenzene	35232	218303	1244711	2787927	5658720	7790717	-1	0.0000	2.6401	0.0000	0.0995

80 13-DCB	25714	143111	754344	1614275	3257265	4592008	-1	0.0000	1.6343	0.0000	0.0710
81 sec-butylbenzene	52624	328900	1843396	4079544	8272245	11100655	-1	0.0000	3.8811	0.0000	0.0861
82 14-DCB	27152	143617	745545	1584107	3232580	4565239	-1	0.0000	1.6402	0.0000	0.0917
83 Cl-benzyl	971	8277	57140	121481	312170	454087	-1	-0.0325	0.1668	0.0000	0.9932
84 12-DCB	22144	126151	657679	1353599	2799301	3968647	-1	0.0000	1.4094	0.0000	0.0651
85 n-butylbenzene	10725	68240	396229	839651	1862723	2572119	-1	0.0000	0.8354	0.0000	0.1224
86 12-diBr-2-Cl-Pra	829	6904	39462	77382	184762	265893	-1	-0.0119	0.0970	0.0000	0.9959
87 124-tri-Cl-Bz	17557	84776	461305	1077695	2118549	2975216	-1	0.0000	1.0169	0.0000	0.1007
88 naphthalene	25997	114299	652424	1633734	3193154	4499282	-1	0.0000	1.4901	0.0000	0.1480
89 hx-Cl-butadiene	8755	54493	276180	608951	1266400	1730110	-1	0.0000	0.6067	0.0000	0.0659
90 123-Tri-Cl-Bz	14845	70983	380915	916514	1740600	2447267	-1	0.0000	0.8455	0.0000	0.1010

Response Factor Report GCMS-A

5363

Method : C:\MSDCHEM\1\METHODS\826WA010.M (RTE Integrator)
Title : **Applied P &Ch Lab** EPA 8260
Last Update : Mon Mar 31 10:25:55 2003
Response via : Initial Calibration

Calibration Files
.3 =10-0003A.D 2 =10-0002.D 10 =10-0010.D
20 =10-0020.D 40 =10-0040.D 60 =10-0060.D

			Compound	.3	2	10	20	40	60	Avg	%RSD	
1)	I	1	Fluorobenzene	ISTD								
2)		3	di-Cl-di-F-m	0.258	0.233	0.242	0.252	0.272	0.235	0.249	6.08	
3)	p	4	Chloromethan	0.339	0.254	0.236	0.247	0.236	0.224	0.256	16.32	0.997
4)		2	F114	0.122	0.119	0.120	0.134	0.130	0.116	0.124	5.77	
5)	C	5	vinyl chlori	0.249	0.237	0.241	0.256	0.266	0.244	0.249	4.29	
6)		6	bromomethane	0.185	0.163	0.141	0.134	0.139	0.137	0.150	13.41	
7)		7	chloroethane	0.238	0.150	0.151	0.162	0.163	0.154	0.170	20.13	0.998
8)		8	tri-Cl-F-met	0.387	0.355	0.362	0.395	0.397	0.347	0.374	5.80	
9)		91	Acetonitrile		0.030	0.029	0.035	0.035	0.030	0.032	9.40	
10)		9	acrolein		0.025	0.023	0.024	0.024	0.023	0.024	3.26	
11)		11	acetone X		0.037	0.023	0.023	0.021	0.021	0.025	27.74	0.999
12)		12	ethyl ether	0.130	0.126	0.124	0.133	0.128	0.123	0.127	3.13	
13)	M, C13	11	11-dichloroe	0.318	0.295	0.295	0.321	0.317	0.288	0.306	4.78#	
14)		14	Iodomethane	0.079	0.078	0.124	0.222	0.252	0.244	0.166	49.28	0.994
15)		15	F-113	0.230	0.214	0.214	0.239	0.238	0.204	0.223	6.41	
16)		16	acrylonitril	0.034	0.033	0.033	0.030	0.034	0.033	0.033	4.16	
17)		17	carbon disul	1.009	0.823	0.821	0.906	0.913	0.826	0.883	8.47	
18)		94	Isopropyl Al	0.009	0.003	0.001	0.001	0.001		0.003	113.71	0.995
19)		18	methylene ch	0.432	0.236	0.219	0.225	0.229	0.223	0.260	32.37	0.999
20)		19	t-12-di-Cl-e	0.264	0.237	0.244	0.255	0.272	0.257	0.255	4.99	
21)		20	t-Bu-Me-ethe	0.448	0.431	0.450	0.472	0.497	0.487	0.464	5.52	
22)		95	Tert butyl a		0.005	0.002	0.004	0.005	0.003	0.004	33.63	
23)		94	allyl chlori		0.299	0.287	0.348	0.351	0.303	0.317	9.40	
24)	p	21	11-dichloroe	0.443	0.403	0.408	0.418	0.443	0.427	0.424	4.06	
25)		97	propionitril		0.012	0.012	0.010	0.013	0.012	0.012	10.29	
26)		22	c-12-di-Cl-e	0.260	0.233	0.243	0.255	0.269	0.263	0.254	5.32	
27)		23	22-Dichlorop	0.312	0.265	0.290	0.322	0.339	0.320	0.308	8.54	
28)		24	Br-Cl-methan	0.096	0.098	0.098	0.101	0.105	0.103	0.100	3.22	

(#) = Out of Range

Response Factor Report GCMS-A

Method : C:\MSDCHEM\1\METHODS\826WA010.M (RTE Integrator)
Title : **Applied P &Ch Lab** EPA 8260
Last Update : Mon Mar 31 10:25:55 2003
Response via : Initial Calibration

Calibration Files
.3 =10-0003A.D 2 =10-0002.D 10 =10-0010.D
20 =10-0020.D 40 =10-0040.D 60 =10-0060.D

			Compound	.3	2	10	20	40	60	Avg	%RSD	
29)	C	25	chloroform		0.417	0.419	0.428	0.442	0.429	0.427	2.30	
30)		26	tetrahydrofu	0.030	0.027	0.028	0.024	0.028	0.028	0.027	7.27	
31)		98	Diisopropyl	0.675	0.662	0.692	0.667	0.728	0.707	0.688	3.70	
32)	S	27	Di-Br-F-Me (	0.263	0.216	0.216	0.227	0.232	0.226	0.230	7.61	
33)		99	ETBE	0.484	0.471	0.516	0.535	0.583	0.584	0.529	9.11	
34)	S	29	1,2-Di-Cl-Et	0.258	0.203	0.200	0.209	0.208	0.203	0.214	10.24	
35)		30	12-dichloroe	0.084	0.078	0.076	0.080	0.078	0.075	0.079	4.09	
36)		32	vinyl acetat	0.304	0.296	0.313	0.295	0.332	0.315	0.309	4.47	
37)		92	Nitro Methan		0.035	0.035	0.036	0.039	0.038	0.037	4.34	
38)		33	2-butanoneME		0.039	0.027	0.028	0.032	0.031	0.032	14.75	
39)		93	Ethyl Acetat		0.123	0.141	0.105	0.150	0.133	0.130	13.15	
40)		34	111-trichlor	0.392	0.351	0.363	0.384	0.413	0.389	0.382	5.76	
41)		35	11-Di-Cl-pro	0.330	0.289	0.312	0.337	0.365	0.336	0.328	7.84	
42)	M	36	benzene	1.005	0.924	0.978	1.055	1.057	1.017	1.006	5.00	
43)		37	CCl4	0.324	0.282	0.308	0.324	0.363	0.335	0.323	8.40	
44)		100	Isobutyl al		0.002	0.001	0.002	0.002	0.002	0.002	30.05	
45)		38	thiophene	0.482	0.458	0.496	0.537	0.546	0.535	0.509	7.01	
46)	C	39	12-di-Cl-pro	0.215	0.196	0.209	0.227	0.226	0.221	0.216	5.42#	
47)	M	40	trichloroeth	0.281	0.249	0.258	0.285	0.295	0.280	0.275	6.33	
48)		41	dibromometha	0.102	0.102	0.102	0.107	0.108	0.105	0.104	2.67	
49)		101	TAME	0.410	0.403	0.454	0.511	0.530	0.533	0.474	12.47	
50)		42	Br-di-Cl-met		0.278	0.288	0.308	0.309	0.304	0.297	4.56	
51)		43	Me-methacryl	0.085	0.087	0.099	0.107	0.116	0.113	0.101	12.85	
52)		44	2-ClEt-Vi-et		0.015	0.019	0.024	0.027	0.027	0.023	24.02	0.998
53)		45	c-13-di-Cl-p	0.286	0.278	0.309	0.342	0.351	0.346	0.319	10.09	
54)		46	t-1,3-dichlo	0.200	0.205	0.239	0.267	0.287	0.280	0.246	15.20	0.999
55)	I	47	Chlorobezene-d5	----------ISTD----------								
56)		48	112-tri-Cl-E	0.222	0.199	0.200	0.208	0.214	0.206	0.208	4.27	

(#) = Out of Range

Response Factor Report GCMS-A

Method : C:\MSDCHEM\1\METHODS\826WA010.M (RTE Integrator)
Title : **Applied P &Ch Lab** EPA 8260
Last Update : Mon Mar 31 10:25:55 2003
Response via : Initial Calibration

Calibration Files
.3 =10-0003A.D 2 =10-0002.D 10 =10-0010.D
20 =10-0020.D 40 =10-0040.D 60 =10-0060.D

			Compound	.3	2	10	20	40	60	Avg	%RSD	
57)		49	13-di-Cl-pro	0.374	0.361	0.358	0.372	0.382	0.362	0.368	2.58	
58)		50	Et methacryl	0.226	0.251	0.288	0.304	0.346	0.334	0.291	16.07	0.998
59)		51	di-Br-Cl-met		0.234	0.247	0.256	0.276	0.267	0.256	6.45	
60)	P	52	bromoform	0.146	0.119	0.128	0.134	0.148	0.143	0.136	8.58	
61)		53	1,4-dichloro		0.320	0.326	0.335	0.351	0.331	0.333	3.55	
62)		54	MIBK		0.132	0.133	0.132	0.158	0.151	0.141	8.61	
63)	s	55	toluene-d8		1.172	1.220	1.322	1.363	1.290	1.273	6.06	
64)	M,C	56	toluene	1.483	1.381	1.458	1.571	1.597	1.490	1.497	5.23	
65)		57	2-hexanone X		0.089	0.091	0.094	0.101	0.095	0.094	4.99	
66)		58	12-dibromoet	0.185	0.188	0.190	0.198	0.209	0.201	0.195	4.69	
67)		59	tetra-Cl-eth	0.404	0.360	0.360	0.395	0.415	0.376	0.385	6.08	
68)	M,P	60	chlorobenzen	1.025	0.902	0.921	0.980	0.998	0.958	0.964	4.84	
69)		61	1112-tetra-C	0.282	0.281	0.298	0.322	0.337	0.329	0.308	7.99	
70)	I	62	1,4-Dichlorobenzen	----------	ISTD	----------						
71)		63	1-chlorohexa	0.403	0.341	0.366	0.424	0.462	0.419	0.402	10.81	
72)	C	64	Et-Bz	3.443	3.192	3.357	3.680	3.841	3.609	3.520	6.68#	
73)		65	m/p-Xylenes	2.731	2.487	2.612	2.843	2.884	2.654	2.702	5.50	
74)		66	styrene	1.866	1.872	2.002	2.189	2.278	2.176	2.064	8.50	
75)		67	o-xylene	2.643	2.489	2.693	2.927	3.014	2.852	2.770	7.08	
76)	p	68	1122-Tetra-C	0.507	0.479	0.460	0.478	0.510	0.482	0.486	3.89	
77)		69	123-tri-Cl-P	0.160	0.134	0.134	0.137	0.145	0.138	0.141	7.08	
78)	S	70	4-Br-1-F-Bz		0.718	0.718	0.774	0.810	0.785	0.761	5.45	
79)		71	isopropylben	3.250	2.950	3.272	3.652	3.847	3.577	3.425	9.53	
80)		72	bromobenzene	0.751	0.698	0.726	0.785	0.825	0.793	0.763	6.13	
81)		92	t-1,4-dichlo	0.050	0.053	0.065	0.075	0.092	0.092	0.071	25.62	0.994
82)		73	n-propylbenz	0.993	0.867	0.933	1.055	1.134	1.069	1.009	9.66	
83)		74	2-Cl-Toluene	0.851	0.749	0.802	0.880	0.934	0.897	0.852	7.89	
84)		75	4-Cl-Toluene	0.910	0.783	0.817	0.890	0.944	0.899	0.874	6.98	

(#) = Out of Range

Response Factor Report GCMS-A

Method : C:\MSDCHEM\1\METHODS\826WA010.M (RTE Integrator)
Title : **Applied P &Ch Lab** EPA 8260
Last Update : Mon Mar 31 10:25:55 2003
Response via : Initial Calibration

Calibration Files
.3 =10-0003A.D 2 =10-0002.D 10 =10-0010.D
20 =10-0020.D 40 =10-0040.D 60 =10-0060.D

	Compound	.3	2	10	20	40	60	Avg	%RSD	
85)	76 135-tri-Me-B	2.886	2.570	2.825	3.101	3.252	3.022	2.943	8.09	
86)	77 4-iso-Pr-tol	3.039	2.843	3.056	3.311	3.633	3.321	3.201	8.70	
87)	78 124-tri-Me-B	3.100	2.689	2.842	3.139	3.264	3.085	3.020	7.03	
88)	79 tert-butylbe	2.468	2.285	2.505	2.811	2.989	2.782	2.640	9.95	
89)	80 13-DCB	1.801	1.498	1.518	1.628	1.720	1.640	1.634	7.10	
90)	81 sec-butylben	3.686	3.443	3.710	4.114	4.369	3.965	3.881	8.61	
91)	82 14-DCB	1.902	1.503	1.501	1.597	1.707	1.630	1.640	9.17	
92)	83 Cl-benzyl	0.068	0.087	0.115	0.123	0.165	0.162	0.120	32.61	0.990
93)	84 12-DCB	1.551	1.321	1.324	1.365	1.479	1.417	1.409	6.51	
94)	85 n-butylbenze	0.751	0.714	0.798	0.847	0.984	0.919	0.835	12.24	
95)	86 12-diBr-2-Cl	0.058	0.072	0.079	0.078	0.098	0.095	0.080	18.35	0.994
96)	87 124-tri-Cl-B		0.887	0.929	1.087	1.119	1.063	1.017	10.07	
97)	88 naphthalene		1.196	1.313	1.647	1.687	1.607	1.490	14.80	
98)	89 hx-Cl-butadi	0.613	0.570	0.556	0.614	0.669	0.618	0.607	6.59	
99)	90 123-Tri-Cl-B		0.743	0.767	0.924	0.919	0.874	0.845	10.10	

(#) = Out of Range

Quantitation Report: **Applied P &Ch Lab** EPA 8260

5367

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0003A.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 15:50 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:23 2003
Print Time : Mon Mar 31 09:24 2003
Miscleneous :

Sample : f=1 0.3ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
Internal Standards											Dev(Min)	
1	1	Fluorobenzene	7.63	7.63	0.000	96	70	1402.185	10.00		0.00	
47	47	Chlorobezene-d5	11.54	11.54	0.000	117	82	988.828	10.00		0.00	
62	62	1,4-Dichlorobenze	13.84	13.84	0.000	152	150	475.933	10.00		0.00	
System Monitoring Compounds (Surrogate)											%Recovery	
27	27	Di-Br-F-Me (surr)	6.58	6.58	0.000	111	113	11.084	0.37	0.4	1.85%	
29	29	1,2-Di-Cl-Et-d4 (	7.09	7.09	0.000	65	102	10.836	0.36	0.4	1.78%	
55	55	toluene-d8	9.90	9.90	0.000	98	100	40.331	0.37	0.4	1.83%	
70	70	4-Br-1-F-Bz (S3)	12.74	12.74	0.000	174	95	14.323	0.45	0.4	2.24%	
Target Compounds											Qvalue	
<<< I1 : ISTD ID = 1 >>>												
3	3	di-Cl-di-F-methan	1.85	1.86	-0.002	85	87	10.847	0.25	0.3	89	m
4	4	Chloromethane	2.06	2.08	-0.001	50	52	14.243	0.30	0.3	92	
2	2	F114	1.99	2.00	-0.001	85	135	5.136	0.27	0.3	84	# 03/31/03
5	5	vinyl chloride	2.19	2.20	-0.002	62	64	10.455	0.23	0.2	95	
6	6	bromomethane	2.57	2.58	-0.001	94	96	7.777	0.25	0.2	88	m
7	7	chloroethane	2.69	2.70	-0.002	64	66	10.022	0.35	0.4	0	m
8	8	tri-Cl-F-methane	3.00	3.01	-0.002	101	103	16.293	0.35	0.4	90	
91	91	Acetonitrile X10	4.04	4.00	0.005	41	40	20.424	14.04	14.0	82	m?
9	9	acrolein X10	3.48	3.48	0.000	56	55	11.130	2.68	2.7	99	
11	11	acetone X10	3.68	3.67	0.002	43	58	28.459	5.59	5.6	98	m
12	12	ethyl ether X5	3.34	3.35	-0.002	59	74	27.298	1.50	1.5	89	
13	13	11-dichloroethene	3.60	3.62	-0.002	61	96	13.394	0.35	0.3	97	?
14	14	Iodomethane	3.79	3.79	0.000	142	127	3.342	0.10	0.1	76	m
15	15	F-113	3.62	3.63	-0.002	101	151	9.667	0.41	0.4	0	m
16	16	acrylonitrile X10	4.49	4.49	0.000	53	52	14.334	2.21	2.2	91	03/31/03
17	17	carbon disulfide	3.87	3.88	-0.002	76	78	42.449	0.35	0.3	97	
94	94	Isopropyl Alcohol	3.97	3.90	0.009	45	43	3.968	3.78	3.8	1	m
18	18	methylene chlorid	4.19	4.20	0.000	84	49	18.179	0.37	0.4	94	
19	19	t-12-di-Cl-ethene	4.55	4.56	-0.002	96	61	11.094	0.35	0.3	92	?

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0003A.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 15:50 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:23 2003
Print Time : Mon Mar 31 09:24 2003
Miscleneous :

Sample : f=1 0.3ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5368

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
20	20	t-Bu-Me-ether	4.57	4.57	0.000	73	57	18.835	0.26	0.3	97	?
95	95	Tert butyl alcoho	4.44	4.40	0.005	59	57	3.654	2.41	2.4	71	m
94	94	allyl chloride	4.04	4.05	0.000	41	76	20.437	0.39	0.4	83	#?
21	21	11-dichloroethane	5.09	5.10	-0.002	63	83	18.621	0.33	0.3	96	
22	22	c-12-di-Cl-ethene	5.89	5.90	-0.002	96	61	10.945	0.32	0.3	86	?
23	23	22-Dichloropropan	5.89	5.90	0.000	77	97	13.116	0.39	0.4	97	?
24	24	Br-Cl-methane	6.23	6.23	0.000	128	130	4.057	0.25	0.2	77	m
25	25	chloroform	6.35	6.35	0.000	83	85	22.993	0.39	0.4	90	?
26	26	tetrahydrofuranX5	6.34	6.32	0.002	42	72	6.239	1.05	1.0	89	?
98	98	Diisopropyl ether	5.22	5.22	0.000	45	87	28.399	0.28	0.3	99	
99	99	ETBE	5.72	5.72	0.000	59	87	20.365	0.27	0.3	96	
30	30	12-dichloroethane	7.20	7.21	0.000	64	62	3.534	0.31	0.3	57	#?
32	32	vinyl acetate X5	5.17	5.17	0.000	43	86	63.860	1.42	1.4	96	
92	92	Nitro Methane(x10	5.78	5.78	0.000	61	46	0.531	0.86	0.9	70	
33	33	2-butanoneMEK X10	5.93	5.92	0.002	43	72	23.496	2.89	2.9	97	
93	93	Ethyl Acetate x2	6.02	6.02	0.000	43	61	10.913	0.61	0.6	71	#
34	34	111-trichloroetha	6.63	6.63	0.000	97	99	16.490	0.37	0.4	92	
35	35	11-Di-Cl-propene	6.89	6.89	0.000	75	110	13.873	0.34	0.3	95	?
36	36	benzene	7.19	7.19	0.000	78	52	42.274	0.30	0.3	98	?
37	37	CCl4	6.89	6.90	0.000	117	119	13.612	0.41	0.4	89	?
100	100	Isobutyl alcohol	7.34	7.11	0.030	43	42	0.091	0.17	0.2	1	#
38	38	thiophene	7.51	7.52	0.000	84	58	20.269	0.29	0.3	95	
39	39	12-di-Cl-propane	8.54	8.55	0.000	63	76	9.049	0.31	0.3	89	
40	40	trichloroethene	8.23	8.23	0.000	130	132	11.826	0.33	0.3	94	
41	41	dibromomethane	8.71	8.72	-0.002	174	172	4.302	0.26	0.3	93	
101	101	TAME	7.39	7.40	0.000	73	43	17.251	0.23	0.2	94	
42	42	Br-di-Cl-methane	8.95	8.95	0.000	83	85	15.590	0.38	0.4	92	
43	43	Me-methacrylate	8.76	8.75	0.002	69	100	3.581	0.20	0.2	80	
44	44	2-ClEt-Vi-ether10	9.38	9.37	0.000	63	43	4.864	0.60	0.6	86	
45	45	c-13-di-Cl-propen	9.55	9.55	0.000	75	110	12.016	0.27	0.3	93	
46	46	t-1,3-dichloropro	10.24	10.24	0.000	75	110	8.432	0.24	0.2	98	
<<< I2 : ISTD ID = 47 >>>												
48	48	112-tri-Cl-Et	10.45	10.45	0.000	97	83	6.594	0.38	0.4	98	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

03/31/03

03/31/03

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0003A.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 15:50 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:23 2003
Print Time : Mon Mar 31 09:24 2003
Miscleneous :

Sample : f=1 0.3ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5369

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
49	49	13-di-Cl-propane	10.65	10.64	0.000	76	78	11.088	0.36	0.4	98	?
50	50	Et methacrylate	10.38	10.37	0.000	69	99	6.698	0.23	0.2	98	
51	51	di-Br-Cl-methane	10.90	10.90	0.000	129	127	9.920	0.49	0.5	89	
52	52	bromoform	12.41	12.42	0.000	173	174	4.340	0.37	0.4	94	
53	53	1,4-dichlorobutan	12.67	12.67	0.000	55	41	11.561	0.35	0.4	82	
54	54	MIBK	9.77	9.76	0.000	43	58	4.102	0.25	0.2	73	
56	56	toluene	9.98	9.98	0.000	91	92	44.000	0.33	0.3	95	
57	57	2-hexanone X5	10.76	10.75	0.001	43	58	18.952	1.65	1.7	97	m 03/31/03
58	58	12-dibromoethane	11.03	11.03	0.000	107	109	5.481	0.31	0.3	90	
59	59	tetra-Cl-ethene	10.64	10.64	0.000	166	168	11.997	0.39	0.4	92	?
60	60	chlorobenzene	11.57	11.57	0.000	112	77	30.395	0.33	0.3	91	?
61	61	1112-tetra-Cl-Et	11.65	11.66	0.000	131	133	8.360	0.38	0.4	91	
<<<	I3	: ISTD ID = 62	>>>									
63	63	1-chlorohexane	11.56	11.56	0.000	93	55	5.749	0.44	0.4	61	#?
64	64	Et-Bz	11.70	11.70	0.000	91	106	49.158	0.37	0.4	97	
65	65	m/p-Xylenes X2	11.82	11.82	0.000	91	106	77.987	0.72	0.7	99	
66	66	styrene	12.23	12.24	0.000	104	78	26.636	0.30	0.3	92	?
67	67	o-xylene	12.22	12.22	0.000	91	106	37.736	0.33	0.3	91	?
68	68	1122-Tetra-Cl-Et	12.86	12.87	0.000	83	85	7.232	0.38	0.4	94	
69	69	123-tri-Cl-Pr	12.91	12.91	0.000	110	97	2.281	0.39	0.4	93	?
71	71	isopropylbenzene	12.59	12.60	0.000	105	120	46.404	0.35	0.3	97	
72	72	bromobenzene	12.89	12.89	0.000	156	158	10.720	0.33	0.3	92	?
92	92	t-1,4-dichloro-2-	12.92	12.92	0.000	89	53	0.721	0.29	0.3	83	#?
73	73	n-propylbenzene	12.99	13.00	0.000	120	78	14.176	0.36	0.4	94	
74	74	2-Cl-Toluene	13.08	13.08	0.000	126	128	12.148	0.35	0.3	94	
75	75	4-Cl-Toluene	13.18	13.18	0.000	126	128	12.996	0.36	0.4	96	?
76	76	135-tri-Me-Benzen	13.16	13.16	0.000	105	120	41.200	0.34	0.3	100	?
77	77	4-iso-Pr-toluene	13.81	13.81	0.000	119	134	43.393	0.32	0.3	94	?
78	78	124-tri-Me-Benzen	13.51	13.51	0.000	105	120	44.257	0.34	0.3	96	
79	79	tert-butylbenzene	13.47	13.47	0.000	119	91	35.232	0.33	0.3	100	
80	80	13-DCB	13.78	13.79	0.000	146	148	25.714	0.36	0.4	96	?
81	81	sec-butylbenzene	13.68	13.68	0.000	105	134	52.624	0.33	0.3	100	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0003A.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 15:50 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:23 2003
Print Time : Mon Mar 31 09:24 2003
Miscleneous :

Sample : f=1 0.3ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5370

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
82	82	14-DCB	13.87	13.87	0.000	146	148	27.152	0.37	0.4	99	
83	83	Cl-benzyl	13.98	13.98	0.000	126	91	0.971	0.20	0.2	80	#
84	84	12-DCB	14.21	14.21	0.000	146	148	22.144	0.34	0.3	94	?
85	85	n-butylbenzene	14.18	14.18	0.000	134	91	10.725	0.29	0.3	75	#?
86	86	12-diBr-2-Cl-Pra	14.88	14.88	0.000	157	155	0.829	0.18	0.2	86	#
87	87	124-tri-Cl-Bz	15.58	15.59	0.000	180	182	17.557	0.34	0.3	93	
88	88	naphthalene	15.79	15.79	0.000	128	129	25.997	0.29	0.3	98	
89	89	hx-Cl-butadiene	15.72	15.72	0.000	225	258	8.755	0.33	0.3	92	
90	90	123-Tri-Cl-Bz	15.98	15.98	0.000	180	182	14.845	0.33	0.3	96	

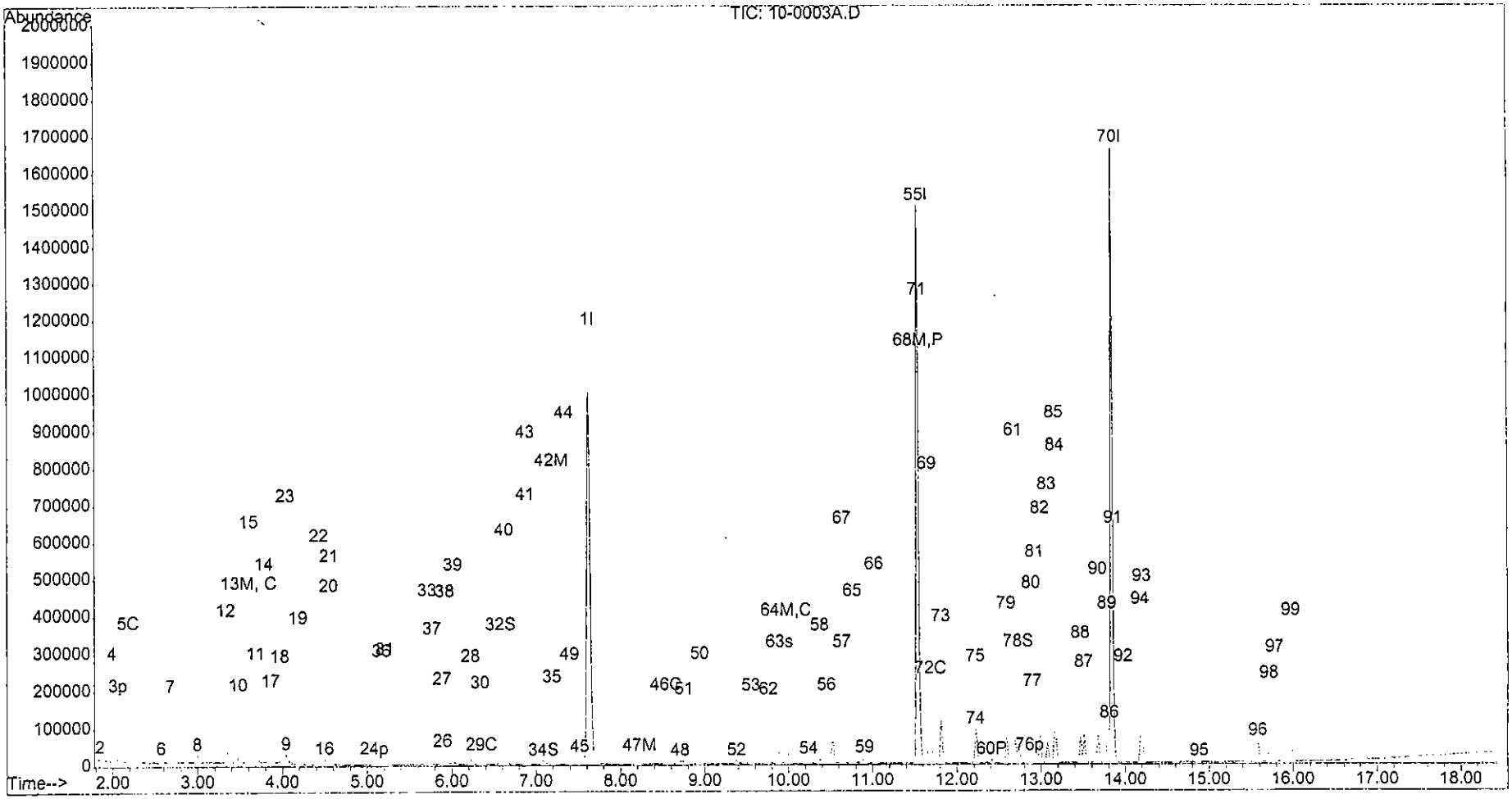
= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0003A.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 15:50 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:23 2003
Print Time : Mon Mar 31 09:24 2003
Miscleneous :

Sample : f=1 0.3ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5371



Quantitation Report: **Applied P &Ch Lab** EPA 8260

5372

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0002.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 16:43 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:36 2003
Print Time : Mon Mar 31 09:36 2003
Miscleneous :

Sample : f=1 2ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
Internal Standards										Dev(Min)		
1	1	Fluorobenzene	7.63	7.63	0.000	96	70	1401.700	10.00		0.00	
47	47	Chlorobezene-d5	11.54	11.54	0.000	117	82	990.172	10.00		0.00	
62	62	1,4-Dichlorobenze	13.84	13.84	0.000	152	150	477.645	10.00		0.00	
System Monitoring Compounds (Surrogate)										%Recovery		
27	27	Di-Br-F-Me (surr)	6.58	6.58	0.000	111	113	60.638	2.02	2.0	10.12%	
29	29	1,2-Di-Cl-Et-d4 (	7.09	7.09	0.000	65	102	56.975	1.87	1.9	9.36%	
55	55	toluene-d8	9.89	9.90	0.000	98	100	232.082	2.11	2.1	10.54%	
70	70	4-Br-1-F-Bz (S3)	12.74	12.74	0.000	174	95	68.592	2.14	2.1	10.68%	
Target Compounds										Qvalue		
<<< I1 : ISTD ID = 1 >>>												
3	3	di-Cl-di-F-methan	1.85	1.86	-0.002	85	87	65.256	1.52	1.5	100	m 03/31/03
4	4	Chloromethane	2.06	2.08	-0.001	50	52	71.226	1.49	1.5	99	
2	2	F114	1.99	2.00	-0.001	85	135	33.302	1.73	1.7	70	m
5	5	vinyl chloride	2.19	2.20	0.000	62	64	66.474	1.46	1.5	99	m 03/31/03
6	6	bromomethane	2.58	2.58	0.000	94	96	45.613	1.46	1.5	99	
7	7	chloroethane	2.69	2.70	-0.002	64	66	41.956	1.48	1.5	91	
8	8	tri-Cl-F-methane	3.00	3.01	-0.002	101	103	99.495	2.16	2.2	97	
91	91	Acetonitrile X10	4.04	4.00	0.005	41	40	83.795	57.63	57.6	30	#?
9	9	acrolein X10	3.49	3.48	0.002	56	55	69.228	16.67	16.7	99	
11	11	acetone X10	3.74	3.67	0.009	43	58	104.684	20.57	20.6	94	m 03/31/03
12	12	ethyl ether X5	3.34	3.35	0.000	59	74	176.671	9.74	9.7	99	
13	13	11-dichloroethene	3.60	3.62	-0.002	61	96	82.732	2.16	2.2	100	?
14	14	Iodomethane	3.78	3.79	-0.002	142	127	21.843	0.63	0.6	98	
15	15	F-113	3.62	3.63	-0.002	101	151	60.030	2.55	2.5	92	?
16	16	acrylonitrile X10	4.51	4.49	0.002	53	52	91.693	14.17	14.2	98	
17	17	carbon disulfide	3.87	3.88	0.000	76	78	230.738	1.90	1.9	99	
94	94	Isopropyl Alcohol	3.71	3.90	-0.026	45	43	8.959	8.54	8.5	83	m 03/31/03
18	18	methylene chlorid	4.19	4.20	-0.002	84	49	66.074	1.36	1.4	94	
19	19	t-12-di-Cl-ethene	4.55	4.56	-0.002	96	61	66.357	2.08	2.1	98	?

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0002.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 16:43 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:36 2003
Print Time : Mon Mar 31 09:36 2003
Miscleneous :

Sample : f=1 2ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

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ID	Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
20	20 t-Bu-Me-ether	4.57	4.57	0.000	73	57	120.775	1.64	1.6	98	?
95	95 Tert butyl alcoho	4.55	4.40	0.020	59	57	14.346	9.46	9.5	71	m? 03/31/03
94	94 allyl chloride	4.04	4.05	0.000	41	76	83.795	1.59	1.6	96	?
21	21 11-dichloroethane	5.09	5.10	-0.002	63	83	112.842	2.01	2.0	97	
97	97 propionitrile	6.02	5.98	0.005	54	51	3.425	1.17	1.2	77	m 03/31/03
22	22 c-12-di-Cl-ethene	5.89	5.90	0.000	96	61	65.228	1.90	1.9	95	?
23	23 22-Dichloropropan	5.89	5.90	0.000	77	97	74.347	2.20	2.2	99	? 03/31/03
24	24 Br-Cl-methane	6.23	6.23	0.000	128	130	27.612	1.68	1.7	97	
25	25 chloroform	6.35	6.35	0.000	83	85	116.777	1.99	2.0	99	?
26	26 tetrahydrofuranX5	6.35	6.32	0.003	42	72	38.117	6.41	6.4	97	?
98	98 Diisopropyl ether	5.22	5.22	0.000	45	87	185.552	1.85	1.8	98	
99	99 ETBE	5.72	5.72	0.000	59	87	132.029	1.75	1.8	99	
30	30 12-dichloroethane	7.20	7.21	0.000	64	62	21.980	1.92	1.9	96	?
32	32 vinyl acetate X5	5.17	5.17	0.000	43	86	414.860	9.23	9.2	98	
92	92 Nitro Methane(x10	5.83	5.78	0.007	61	46	1.890	3.06	3.1	95	m 03/31/03
33	33 2-butanoneMEK X10	5.95	5.92	0.005	43	72	109.206	13.45	13.4	98	
93	93 Ethyl Acetate x2	6.03	6.02	0.002	43	61	69.080	3.85	3.8	89	#?
34	34 111-trichloroetha	6.63	6.63	0.000	97	99	98.389	2.19	2.2	100	
35	35 11-Di-Cl-propene	6.88	6.89	0.000	75	110	81.037	1.97	2.0	98	?
36	36 benzene	7.19	7.19	0.000	78	52	259.026	1.86	1.9	100	?
37	37 CCl4	6.89	6.90	0.000	117	119	78.957	2.36	2.4	100	?
100	100 Isobutyl alcohol	7.27	7.11	0.021	43	42	4.726	9.00	9.0	58	m 03/31/03
38	38 thiophene	7.51	7.52	0.000	84	58	128.315	1.83	1.8	95	
39	39 12-di-Cl-propane	8.54	8.55	0.000	63	76	55.011	1.91	1.9	98	
40	40 trichloroethene	8.23	8.23	0.000	130	132	69.743	1.97	2.0	93	
41	41 dibromomethane	8.71	8.72	0.000	174	172	28.599	1.71	1.7	92	
101	101 TAME	7.40	7.40	0.000	73	43	113.069	1.51	1.5	99	
42	42 Br-di-Cl-methane	8.95	8.95	0.000	83	85	77.950	1.90	1.9	98	
43	43 Me-methacrylate	8.76	8.75	0.000	69	100	24.393	1.37	1.4	88	
44	44 2-ClEt-Vi-ether10	9.37	9.37	0.000	63	43	41.895	5.21	5.2	94	
45	45 c-13-di-Cl-propen	9.55	9.55	0.000	75	110	78.024	1.79	1.8	100	
46	46 t-1,3-dichloropro	10.24	10.24	0.000	75	110	57.535	1.62	1.6	99	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0002.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 16:43 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:36 2003
Print Time : Mon Mar 31 09:36 2003
Miscleneous :

Sample : f=1 2ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5374

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
<<< I2 : ISTD ID = 47 >>>												
48	48	112-tri-Cl-Et	10.45	10.45	0.000	97	83	39.408	2.25	2.3	100	
49	49	13-di-Cl-propane	10.64	10.64	0.000	76	78	71.526	2.31	2.3	97	?
50	50	Et methacrylate	10.38	10.37	0.000	69	99	49.628	1.68	1.7	98	
51	51	di-Br-Cl-methane	10.90	10.90	0.000	129	127	46.263	2.26	2.3	95	
52	52	bromoform	12.41	12.42	0.000	173	174	23.486	1.98	2.0	94	
53	53	1,4-dichlorobutan	12.67	12.67	0.000	55	41	63.322	1.92	1.9	91	
54	54	MIBK	9.77	9.76	0.000	43	58	26.191	1.57	1.6	96	
56	56	toluene	9.98	9.98	0.000	91	92	273.555	2.05	2.1	99	
57	57	2-hexanone X5	10.76	10.75	0.001	43	58	87.657	7.64	7.6	100	
58	58	12-dibromoethane	11.03	11.03	0.000	107	109	37.268	2.09	2.1	96	
59	59	tetra-Cl-ethene	10.64	10.64	0.000	166	168	71.322	2.33	2.3	99	?
60	60	chlorobenzene	11.57	11.57	0.000	112	77	178.605	1.96	2.0	96	?
61	61	1112-tetra-Cl-Et	11.66	11.66	0.000	131	133	55.612	2.55	2.6	98	
<<< I3 : ISTD ID = 62 >>>												
63	63	1-chlorohexane	11.56	11.56	0.000	93	55	32.590	2.48	2.5	90	?
64	64	Et-Bz	11.70	11.70	0.000	91	106	304.901	2.30	2.3	99	
65	65	m/p-Xylenes X2	11.82	11.82	0.000	91	106	475.103	4.36	4.4	100	
66	66	styrene	12.23	12.24	0.000	104	78	178.864	2.01	2.0	92	?
67	67	o-xylene	12.22	12.22	0.000	91	106	237.765	2.07	2.1	97	?
68	68	1122-Tetra-Cl-Et	12.87	12.87	0.000	83	85	45.751	2.41	2.4	95	
69	69	123-tri-Cl-Pr	12.91	12.91	0.000	110	97	12.812	2.17	2.2	95	?
71	71	isopropylbenzene	12.59	12.60	0.000	105	120	281.854	2.11	2.1	98	
72	72	bromobenzene	12.89	12.89	0.000	156	158	66.727	2.03	2.0	96	?
92	92	t-1,4-dichloro-2-	12.92	12.92	0.000	89	53	5.096	2.06	2.1	92	?
73	73	n-propylbenzene	12.99	13.00	0.000	120	78	82.858	2.08	2.1	99	
74	74	2-Cl-Toluene	13.08	13.08	0.000	126	128	71.589	2.04	2.0	100	
75	75	4-Cl-Toluene	13.18	13.18	0.000	126	128	74.825	2.06	2.1	97	?
76	76	135-tri-Me-Benzen	13.16	13.16	0.000	105	120	245.516	2.02	2.0	99	?
77	77	4-iso-Pr-toluene	13.81	13.81	0.000	119	134	271.628	2.01	2.0	98	?
78	78	124-tri-Me-Benzen	13.51	13.51	0.000	105	120	256.888	1.97	2.0	99	
79	79	tert-butylbenzene	13.47	13.47	0.000	119	91	218.303	2.03	2.0	100	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

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Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0002.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 16:43 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:36 2003
Print Time : Mon Mar 31 09:36 2003
Miscleneous :

Sample : f=1 2ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
80	80	13-DCB	13.79	13.79	0.000	146	148	143.111	2.00	2.0	98	?
81	81	sec-butylbenzene	13.68	13.68	0.000	105	134	328.900	2.08	2.1	99	
82	82	14-DCB	13.87	13.87	0.000	146	148	143.617	1.96	2.0	98	
83	83	Cl-benzyl	13.98	13.98	0.000	126	91	8.277	1.69	1.7	85	#
84	84	12-DCB	14.21	14.21	0.000	146	148	126.151	1.92	1.9	99	?
85	85	n-butylbenzene	14.18	14.18	0.000	134	91	68.240	1.84	1.8	90	#?
86	86	12-diBr-2-Cl-Pra	14.88	14.88	0.000	157	155	6.904	1.52	1.5	97	
87	87	124-tri-Cl-Bz	15.58	15.59	0.000	180	182	84.776	1.64	1.6	98	
88	88	naphthalene	15.79	15.79	0.000	128	129	114.299	1.29	1.3	99	
89	89	hx-Cl-butadiene	15.72	15.72	0.000	225	258	54.493	2.05	2.0	99	
90	90	123-Tri-Cl-Bz	15.98	15.98	0.000	180	182	70.983	1.58	1.6	96	

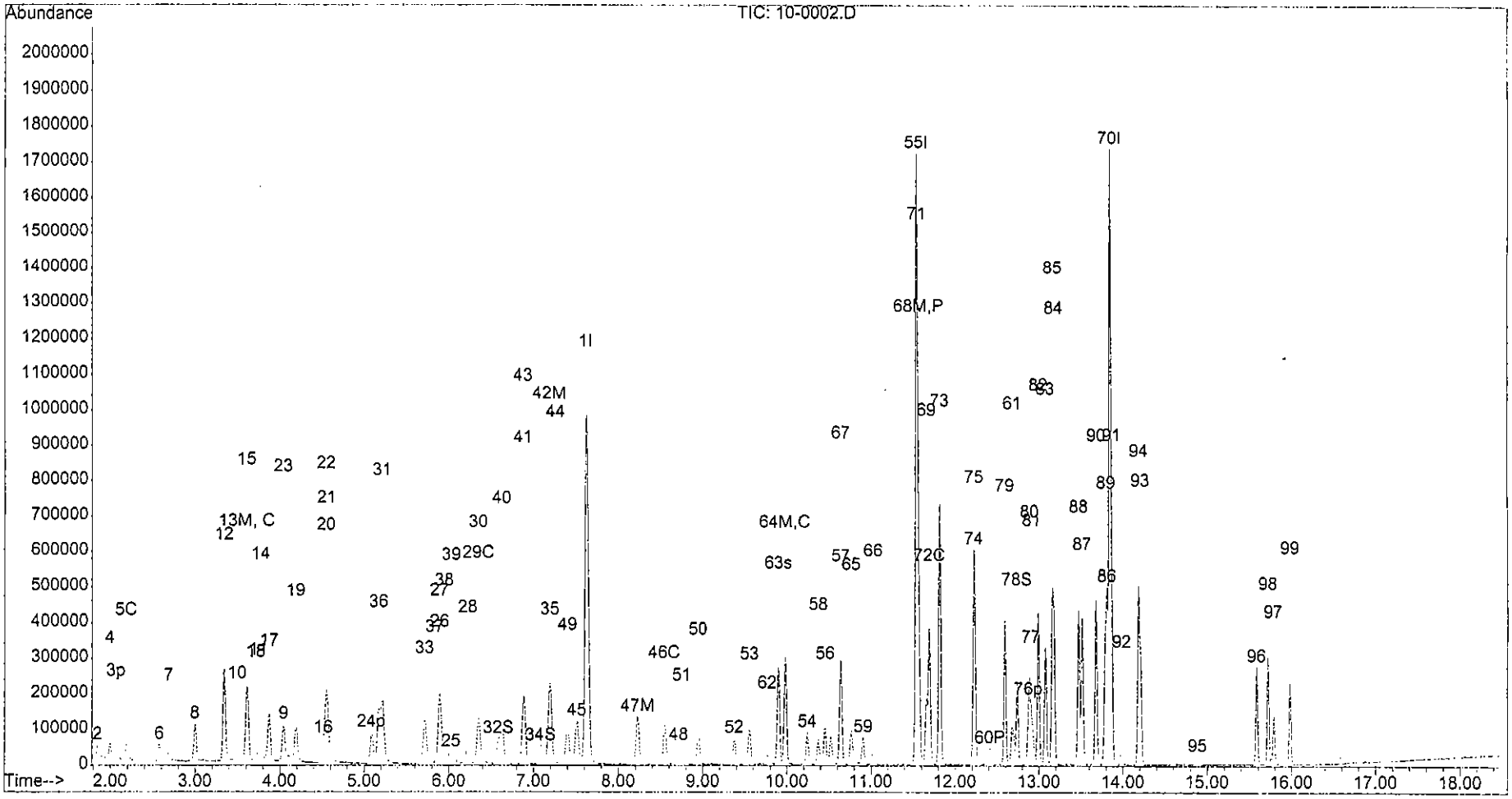
= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0002.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 16:43 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:36 2003
Print Time : Mon Mar 31 09:36 2003
Miscleneous :

Sample : f=1 2ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5376



Quantitation Report: **Applied P &Ch Lab** EPA 8260

5377

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0010.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 17:37 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:39 2003
Print Time : Mon Mar 31 09:40 2003
Miscleneous :

Sample : f=1 10ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
Internal Standards											Dev(Min)	
1	1	Fluorobenzene	7.63	7.63	0.000	96	70	1425.417	10.00		0.00	
47	47	Chlorobezene-d5	11.54	11.54	0.000	117	82	1024.243	10.00		0.00	
62	62	1,4-Dichlorobenze	13.84	13.84	0.000	152	150	496.828	10.00		0.00	
System Monitoring Compounds (Surrogate)											%Recovery	
27	27	Di-Br-F-Me (surr)	6.58	6.58	0.000	111	113	307.963	10.11	10.1	50.57%	
29	29	1,2-Di-Cl-Et-d4 (	7.08	7.09	0.000	65	102	284.710	9.20	9.2	45.99%	
55	55	toluene-d8	9.89	9.90	0.000	98	100	1249.806	10.98	11.0	54.88%	
70	70	4-Br-1-F-Bz (S3)	12.74	12.74	0.000	174	95	356.594	10.68	10.7	53.40%	
Target Compounds											Qvalue	
<<< I1 : ISTD ID = 1 >>>												
3	3	di-Cl-di-F-methan	1.85	1.86	-0.002	85	87	344.729	7.90	7.9	98	
4	4	Chloromethane	2.06	2.08	-0.001	50	52	336.320	6.90	6.9	99	
2	2	F114	1.99	2.00	-0.001	85	135	171.012	8.74	8.7	83	m
5	5	vinyl chloride	2.19	2.20	-0.002	62	64	343.348	7.43	7.4	100	
6	6	bromomethane	2.58	2.58	0.000	94	96	200.938	6.32	6.3	99	
7	7	chloroethane	2.69	2.70	-0.002	64	66	214.551	7.43	7.4	100	
8	8	tri-Cl-F-methane	3.00	3.01	-0.002	101	103	515.840	11.00	11.0	99	
91	91	Acetonitrile X10	4.04	4.00	0.005	41	40	408.495	276.25	276.2	28	#?
9	9	acrolein X10	3.49	3.48	0.002	56	55	329.654	78.06	78.1	97	
11	11	acetone X10	3.76	3.67	0.012	43	58	332.887	64.34	64.3	0	m?
12	12	ethyl ether X5	3.34	3.35	-0.002	59	74	881.117	47.75	47.7	97	
13	13	11-dichloroethene	3.60	3.62	-0.002	61	96	420.004	10.77	10.8	98	?
14	14	Iodomethane	3.78	3.79	-0.002	142	127	176.232	4.96	5.0	95	?
15	15	F-113	3.62	3.63	-0.002	101	151	305.521	12.74	12.7	97	?
16	16	acrylonitrile X10	4.51	4.49	0.002	53	52	475.343	72.21	72.2	97	
17	17	carbon disulfide	3.87	3.88	0.000	76	78	1170.329	9.48	9.5	99	
94	94	Isopropyl Alcohol	3.71	3.90	-0.025	45	43	17.262	16.19	16.2	83	m
18	18	methylene chlorid	4.19	4.20	-0.002	84	49	311.459	6.32	6.3	96	
19	19	t-12-di-Cl-ethene	4.55	4.56	-0.002	96	61	348.511	10.76	10.8	97	?

03/31/03

03/31/03

03/31/03

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

5378

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0010.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 17:37 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:39 2003
Print Time : Mon Mar 31 09:40 2003
Miscleneous :

Sample : f=1 10ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID	Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
20	20 t-Bu-Me-ether	4.57	4.57	0.000	73	57	641.266	8.59	8.6	98	?
95	95 Tert butyl alcoho	4.54	4.40	0.018	59	57	35.248	22.85	22.8	71	m?
94	94 allyl chloride	4.04	4.05	0.000	41	76	408.495	7.61	7.6	89	?
21	21 11-dichloroethane	5.09	5.10	-0.002	63	83	581.855	10.17	10.2	100	
97	97 propionitrile	6.05	5.98	0.009	54	51	17.147	5.76	5.8	77	m?
22	22 c-12-di-Cl-ethene	5.89	5.90	0.000	96	61	346.763	9.94	9.9	90	?
23	23 22-Dichloropropan	5.89	5.90	0.000	77	97	413.858	12.04	12.0	96	?
24	24 Br-Cl-methane	6.23	6.23	0.000	128	130	140.152	8.39	8.4	98	
25	25 chloroform	6.35	6.35	0.000	83	85	597.861	9.99	10.0	98	?
26	26 tetrahydrofuranX5	6.34	6.32	0.002	42	72	198.933	32.88	32.9	98	m?
98	98 Diisopropyl ether	5.22	5.22	0.000	45	87	986.248	9.66	9.7	99	
99	99 ETBE	5.72	5.72	0.000	59	87	735.024	9.60	9.6	98	
30	30 12-dichloroethane	7.21	7.21	0.000	64	62	108.018	9.26	9.3	96	?
32	32 vinyl acetate X5	5.17	5.17	0.000	43	86	2230.480	48.82	48.8	98	
92	92 Nitro Methane(x10	5.85	5.78	0.010	61	46	14.950	23.81	23.8	30	m
33	33 2-butanoneMEK X10	5.95	5.92	0.004	43	72	386.182	46.76	46.8	99	
93	93 Ethyl Acetate x2	6.03	6.02	0.000	43	61	401.801	22.00	22.0	90	#?
34	34 111-trichloroetha	6.63	6.63	0.000	97	99	517.930	11.33	11.3	100	
35	35 11-Di-Cl-propene	6.88	6.89	0.000	75	110	444.769	10.65	10.7	97	?
36	36 benzene	7.19	7.19	0.000	78	52	1393.453	9.86	9.9	100	?
37	37 CCl4	6.89	6.90	0.000	117	119	439.090	12.93	12.9	100	?
100	100 Isobutyl alcohol	7.28	7.11	0.022	43	42	14.196	26.57	26.6	75	m
38	38 thiophene	7.51	7.52	0.000	84	58	706.455	9.93	9.9	99	
39	39 12-di-Cl-propane	8.54	8.55	0.000	63	76	298.031	10.18	10.2	96	
40	40 trichloroethene	8.23	8.23	0.000	130	132	368.318	10.23	10.2	97	
41	41 dibromomethane	8.71	8.72	0.000	174	172	144.754	8.50	8.5	99	
101	101 TAME	7.39	7.40	0.000	73	43	647.400	8.49	8.5	99	
42	42 Br-di-Cl-methane	8.95	8.95	0.000	83	85	410.468	9.84	9.8	97	
43	43 Me-methacrylate	8.75	8.75	0.000	69	100	141.762	7.81	7.8	98	
44	44 2-ClEt-Vi-ether10	9.37	9.37	0.000	63	43	276.079	33.77	33.8	99	
45	45 c-13-di-Cl-propen	9.55	9.55	0.000	75	110	440.533	9.91	9.9	99	
46	46 t-1,3-dichloropro	10.24	10.24	0.000	75	110	340.215	9.40	9.4	100	

03/31/03

03/31/03

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

5379

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0010.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 17:37 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:39 2003
Print Time : Mon Mar 31 09:40 2003
Miscleneous :

Sample : f=1 10ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
<<< I2 : ISTD ID = 47 >>>												
48	48	112-tri-Cl-Et	10.45	10.45	0.000	97	83	204.447	11.30	11.3	98	
49	49	13-di-Cl-propane	10.64	10.64	0.000	76	78	366.282	11.43	11.4	95	?
50	50	Et methacrylate	10.38	10.37	0.000	69	99	294.482	9.61	9.6	98	
51	51	di-Br-Cl-methane	10.90	10.90	0.000	129	127	252.673	11.93	11.9	99	
52	52	bromoform	12.41	12.42	0.000	173	174	130.929	10.70	10.7	100	
53	53	1,4-dichlorobutan	12.67	12.67	0.000	55	41	334.210	9.78	9.8	100	
54	54	MIBK	9.77	9.76	0.000	43	58	136.436	7.90	7.9	96	
56	56	toluene	9.98	9.98	0.000	91	92	1493.556	10.84	10.8	99	
57	57	2-hexanone X5	10.76	10.75	0.000	43	58	465.288	39.19	39.2	97	
58	58	12-dibromoethane	11.03	11.03	0.000	107	109	194.331	10.53	10.5	98	
59	59	tetra-Cl-ethene	10.64	10.64	0.000	166	168	368.264	11.63	11.6	98	?
60	60	chlorobenzene	11.57	11.57	0.000	112	77	943.078	10.03	10.0	99	?
61	61	1112-tetra-Cl-Et	11.66	11.66	0.000	131	133	304.924	13.53	13.5	97	
<<< I3 : ISTD ID = 62 >>>												
63	63	1-chlorohexane	11.56	11.56	0.000	93	55	181.618	13.27	13.3	96	?
64	64	Et-Bz	11.69	11.70	0.000	91	106	1668.070	12.08	12.1	98	
65	65	m/p-Xylenes X2	11.82	11.82	0.000	91	106	2595.435	22.88	22.9	100	
66	66	styrene	12.23	12.24	0.000	104	78	994.724	10.74	10.7	93	?
67	67	o-xylene	12.22	12.22	0.000	91	106	1338.059	11.22	11.2	97	?
68	68	1122-Tetra-Cl-Et	12.87	12.87	0.000	83	85	228.508	11.58	11.6	99	
69	69	123-tri-Cl-Pr	12.91	12.91	0.000	110	97	66.381	10.81	10.8	100	?
71	71	isopropylbenzene	12.59	12.60	0.000	105	120	1625.443	11.69	11.7	98	
72	72	bromobenzene	12.89	12.89	0.000	156	158	360.820	10.58	10.6	96	?
92	92	t-1,4-dichloro-2-	12.92	12.92	0.000	89	53	32.426	12.60	12.6	98	?
73	73	n-propylbenzene	12.99	13.00	0.000	120	78	463.721	11.18	11.2	98	
74	74	2-Cl-Toluene	13.08	13.08	0.000	126	128	398.415	10.93	10.9	100	
75	75	4-Cl-Toluene	13.18	13.18	0.000	126	128	405.718	10.73	10.7	99	?
76	76	135-tri-Me-Benzen	13.16	13.16	0.000	105	120	1403.326	11.10	11.1	100	?
77	77	4-iso-Pr-toluene	13.81	13.81	0.000	119	134	1518.534	10.83	10.8	98	?
78	78	124-tri-Me-Benzen	13.51	13.51	0.000	105	120	1411.774	10.41	10.4	98	
79	79	tert-butylbenzene	13.47	13.47	0.000	119	91	1244.711	11.15	11.1	100	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

5380

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0010.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 17:37 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:39 2003
Print Time : Mon Mar 31 09:40 2003
Miscleneous :

Sample : f=1 10ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
80	80	13-DCB	13.78	13.79	0.000	146	148	754.344	10.12	10.1	98	?
81	81	sec-butylbenzene	13.68	13.68	0.000	105	134	1843.396	11.21	11.2	100	
82	82	14-DCB	13.87	13.87	0.000	146	148	745.545	9.76	9.8	100	
83	83	Cl-benzyl	13.98	13.98	0.000	126	91	57.140	11.22	11.2	99	
84	84	12-DCB	14.21	14.21	0.000	146	148	657.679	9.61	9.6	99	?
85	85	n-butylbenzene	14.18	14.18	0.000	134	91	396.229	10.30	10.3	93	?
86	86	12-diBr-2-Cl-Pra	14.88	14.88	0.000	157	155	39.462	8.37	8.4	93	
87	87	124-tri-Cl-Bz	15.58	15.59	0.000	180	182	461.305	8.59	8.6	98	
88	88	naphthalene	15.79	15.79	0.000	128	129	652.424	7.08	7.1	99	
89	89	hx-Cl-butadiene	15.72	15.72	0.000	225	258	276.180	9.96	10.0	99	
90	90	123-Tri-Cl-Bz	15.98	15.98	0.000	180	182	380.915	8.13	8.1	100	

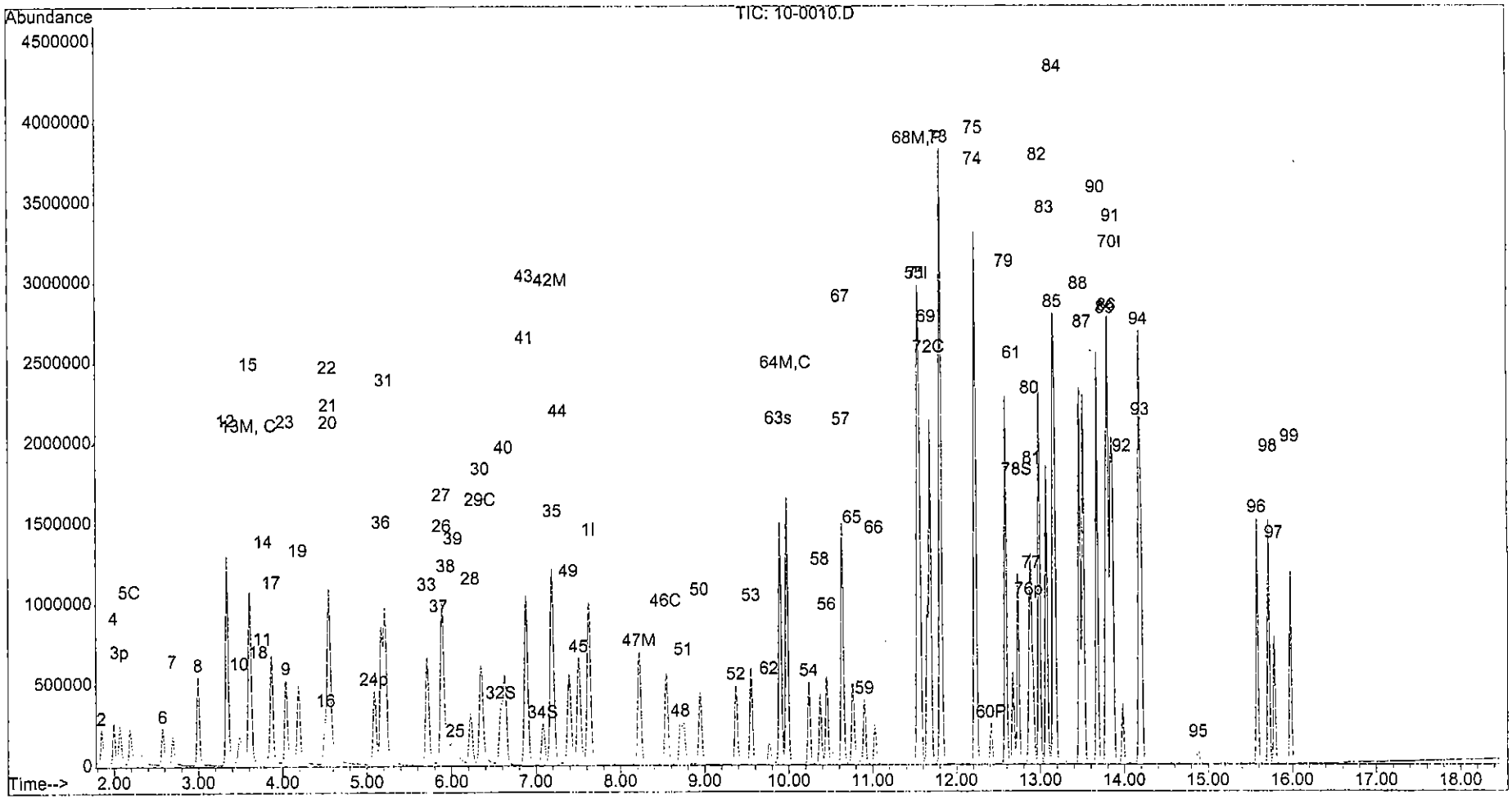
= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0010.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 17:37 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:39 2003
Print Time : Mon Mar 31 09:40 2003
Miscleneous :

Sample : f=1 10ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5381



Quantitation Report: **Applied P &Ch Lab** EPA 8260

5382

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0020.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 18:30 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:44 2003
Print Time : Mon Mar 31 09:44 2003
Miscleneous :

Sample : f=1 20ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
Internal Standards										Dev(Min)		
1	1	Fluorobenzene	7.63	7.63	0.000	96	70	1419.632	10.00		0.00	
47	47	Chlorobezene-d5	11.54	11.54	0.000	117	82	1043.945	10.00		0.00	
62	62	1,4-Dichlorobenze	13.84	13.84	0.000	152	150	495.828	10.00		0.00	
System Monitoring Compounds (Surrogate)										%Recovery		
27	27	Di-Br-F-Me (surr)	6.58	6.58	0.000	111	113	643.560	21.22	21.2	106.10%	
29	29	1,2-Di-Cl-Et-d4 (	7.08	7.09	0.000	65	102	593.863	19.26	19.3	96.31%	
55	55	toluene-d8	9.90	9.90	0.000	98	100	2759.643	23.78	23.8	118.89%	
70	70	4-Br-1-F-Bz (S3)	12.74	12.74	0.000	174	95	767.770	23.04	23.0	115.20%	
Target Compounds										Qvalue		
<<< I1 : ISTD ID = 1 >>>												
3	3	di-Cl-di-F-methan	1.85	1.86	-0.002	85	87	715.366	16.46	16.5	99	
4	4	Chloromethane	2.07	2.08	0.000	50	52	702.444	14.46	14.5	99	
2	2	F114	2.00	2.00	0.000	85	135	381.760	19.60	19.6	90	
5	5	vinyl chloride	2.19	2.20	0.000	62	64	725.558	15.76	15.8	98	
6	6	bromomethane	2.58	2.58	0.000	94	96	379.493	11.98	12.0	97	
7	7	chloroethane	2.69	2.70	-0.002	64	66	459.359	15.97	16.0	0	m
8	8	tri-Cl-F-methane	3.00	3.01	-0.002	101	103	1121.757	24.02	24.0	99	
91	91	Acetonitrile X10	4.04	4.00	0.005	41	40	988.740	671.37	671.4	32	#? 3/31/03
9	9	acrolein X10	3.49	3.48	0.000	56	55	676.073	160.75	160.7	0	m
11	11	acetone X10	3.72	3.67	0.007	43	58	639.556	124.11	124.1	0	m?
12	12	ethyl ether X5	3.34	3.35	-0.002	59	74	1890.393	102.86	102.9	99	
13	13	11-dichloroethene	3.60	3.62	-0.002	61	96	911.032	23.45	23.5	100	?
14	14	Iodomethane	3.78	3.79	-0.002	142	127	629.497	17.79	17.8	94	
15	15	F-113	3.62	3.63	-0.002	101	151	677.448	28.37	28.4	97	?
16	16	acrylonitrile X10	4.50	4.49	0.002	53	52	863.383	131.69	131.7	98	m
17	17	carbon disulfide	3.87	3.88	0.000	76	78	2572.254	20.93	20.9	100	03/31/03
94	94	Isopropyl Alcohol	3.70	3.90	-0.027	45	43	31.346	29.51	29.5	83	m?
18	18	methylene chlorid	4.19	4.20	-0.002	84	49	637.490	12.98	13.0	97	
19	19	t-12-di-Cl-ethene	4.55	4.56	-0.002	96	61	724.140	22.45	22.5	99	?

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

5383

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0020.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 18:30 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:44 2003
Print Time : Mon Mar 31 09:45 2003
Miscleneous :

Sample : f=1 20ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID	Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
20	20 t-Bu-Me-ether	4.57	4.57	0.000	73	57	1340.185	18.02	18.0	99	?
95	95 Tert butyl alcoho	4.55	4.40	0.019	59	57	105.910	68.93	68.9	71	m?
94	94 allyl chloride	4.04	4.05	0.000	41	76	988.740	18.49	18.5	96	?
21	21 11-dichloroethane	5.09	5.10	-0.002	63	83	1186.542	20.83	20.8	99	
97	97 propionitrile	6.01	5.98	0.004	54	51	28.049	9.46	9.5	77	m?
22	22 c-12-di-Cl-ethene	5.89	5.90	-0.002	96	61	722.727	20.80	20.8	99	?
23	23 22-Dichloropropan	5.89	5.90	0.000	77	97	914.214	26.70	26.7	99	?
24	24 Br-Cl-methane	6.23	6.23	0.000	128	130	286.516	17.22	17.2	98	
25	25 chloroform	6.35	6.35	0.000	83	85	1214.377	20.38	20.4	99	?
26	26 tetrahydrofuranX5	6.34	6.32	0.002	42	72	336.272	55.80	55.8	95	m?
98	98 Diisopropyl ether	5.22	5.22	0.000	45	87	1893.560	18.63	18.6	96	
99	99 ETBE	5.72	5.72	0.000	59	87	1518.648	19.91	19.9	96	
30	30 12-dichloroethane	7.21	7.21	0.000	64	62	227.029	19.55	19.5	99	?
32	32 vinyl acetate X5	5.17	5.17	0.000	43	86	4194.574	92.18	92.2	98	
92	92 Nitro Methane(x10	5.84	5.78	0.008	61	46	49.369	78.95	79.0	1	m
33	33 2-butanoneMEK X10	5.94	5.92	0.003	43	72	800.835	97.36	97.4	95	
93	93 Ethyl Acetate x2	6.03	6.02	0.002	43	61	597.072	32.82	32.8	94	?
34	34 111-trichloroetha	6.63	6.63	0.000	97	99	1091.679	23.97	24.0	100	
35	35 11-Di-Cl-propene	6.88	6.89	-0.002	75	110	957.310	23.02	23.0	98	?
36	36 benzene	7.19	7.19	0.000	78	52	2994.641	21.27	21.3	100	?
37	37 CCl4	6.88	6.90	-0.002	117	119	920.143	27.20	27.2	98	?
100	100 Isobutyl alcohol	7.19	7.11	0.010	43	42	70.592	132.68	132.7	31	m?
38	38 thiophene	7.51	7.52	0.000	84	58	1525.558	21.52	21.5	99	
39	39 12-di-Cl-propane	8.55	8.55	0.000	63	76	645.043	22.12	22.1	99	
40	40 trichloroethene	8.22	8.23	0.000	130	132	809.129	22.56	22.6	99	
41	41 dibromomethane	8.71	8.72	0.000	174	172	304.462	17.94	17.9	98	
101	101 TAME	7.40	7.40	0.000	73	43	1450.103	19.10	19.1	100	
42	42 Br-di-Cl-methane	8.95	8.95	0.000	83	85	873.215	21.02	21.0	100	
43	43 Me-methacrylate	8.76	8.75	0.000	69	100	302.947	16.75	16.8	99	
44	44 2-ClEt-Vi-ether10	9.38	9.37	0.000	63	43	689.334	84.65	84.7	100	
45	45 c-13-di-Cl-propen	9.55	9.55	0.000	75	110	972.065	21.96	22.0	99	
46	46 t-1,3-dichloropro	10.24	10.24	0.000	75	110	757.085	21.01	21.0	99	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0020.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 18:30 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:44 2003
Print Time : Mon Mar 31 09:45 2003
Miscleneous :

Sample : f=1 20ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5384

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
<<< I2 : ISTD ID = 47 >>>												
48	48	112-tri-Cl-Et	10.45	10.45	0.000	97	83	433.455	23.51	23.5	98	
49	49	13-di-Cl-propane	10.64	10.64	0.000	76	78	776.054	23.76	23.8	98	?
50	50	Et methacrylate	10.38	10.37	0.000	69	99	634.508	20.32	20.3	99	
51	51	di-Br-Cl-methane	10.90	10.90	0.000	129	127	533.500	24.72	24.7	100	
52	52	bromoform	12.41	12.42	0.000	173	174	280.129	22.46	22.5	100	
53	53	1,4-dichlorobutan	12.67	12.67	0.000	55	41	699.010	20.07	20.1	99	
54	54	MIBK	9.77	9.76	0.000	43	58	276.346	15.70	15.7	97	
56	56	toluene	9.98	9.98	0.000	91	92	3279.721	23.36	23.4	99	
57	57	2-hexanone X5	10.76	10.75	0.001	43	58	979.048	80.91	80.9	100	
58	58	12-dibromoethane	11.03	11.03	0.000	107	109	412.749	21.95	22.0	98	
59	59	tetra-Cl-ethene	10.64	10.64	0.000	166	168	825.724	25.59	25.6	98	?
60	60	chlorobenzene	11.57	11.57	0.000	112	77	2046.929	21.36	21.4	99	?
61	61	1112-tetra-Cl-Et	11.66	11.66	0.000	131	133	672.900	29.30	29.3	99	
<<< I3 : ISTD ID = 62 >>>												
63	63	1-chlorohexane	11.56	11.56	0.000	93	55	420.352	30.79	30.8	93	?
64	64	Et-Bz	11.69	11.70	0.000	91	106	3648.966	26.47	26.5	99	
65	65	m/p-Xylenes X2	11.82	11.82	0.000	91	106	5637.783	49.80	49.8	99	
66	66	styrene	12.23	12.24	0.000	104	78	2170.590	23.49	23.5	95	?
67	67	o-xylene	12.22	12.22	0.000	91	106	2902.842	24.40	24.4	100	?
68	68	1122-Tetra-Cl-Et	12.87	12.87	0.000	83	85	474.459	24.09	24.1	99	
69	69	123-tri-Cl-Pr	12.91	12.91	0.000	110	97	135.429	22.09	22.1	99	?
71	71	isopropylbenzene	12.59	12.60	0.000	105	120	3621.879	26.09	26.1	100	
72	72	bromobenzene	12.89	12.89	0.000	156	158	778.815	22.88	22.9	99	?
92	92	t-1,4-dichloro-2-	12.92	12.92	0.000	89	53	74.114	28.86	28.9	92	?
73	73	n-propylbenzene	12.99	13.00	0.000	120	78	1046.004	25.26	25.3	100	
74	74	2-Cl-Toluene	13.08	13.08	0.000	126	128	872.352	23.98	24.0	99	
75	75	4-Cl-Toluene	13.18	13.18	0.000	126	128	882.193	23.38	23.4	100	?
76	76	135-tri-Me-Benzen	13.16	13.16	0.000	105	120	3075.105	24.38	24.4	99	?
77	77	4-iso-Pr-toluene	13.81	13.81	0.000	119	134	3283.328	23.46	23.5	99	?
78	78	124-tri-Me-Benzen	13.51	13.51	0.000	105	120	3112.878	23.01	23.0	100	
79	79	tert-butylbenzene	13.47	13.47	0.000	119	91	2787.927	25.01	25.0	98	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0020.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 18:30 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:44 2003
Print Time : Mon Mar 31 09:45 2003
Miscleneous :

Sample : f=1 20ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5385

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
80	80	13-DCB	13.79	13.79	0.000	146	148	1614.275	21.71	21.7	99	?
81	81	sec-butylbenzene	13.68	13.68	0.000	105	134	4079.544	24.86	24.9	100	
82	82	14-DCB	13.87	13.87	0.000	146	148	1584.107	20.78	20.8	99	
83	83	Cl-benzyl	13.98	13.98	0.000	126	91	121.481	23.91	23.9	96	
84	84	12-DCB	14.21	14.21	0.000	146	148	1353.599	19.83	19.8	99	?
85	85	n-butylbenzene	14.18	14.18	0.000	134	91	839.651	21.86	21.9	99	?
86	86	12-diBr-2-Cl-Pra	14.88	14.88	0.000	157	155	77.382	16.44	16.4	96	
87	87	124-tri-Cl-Bz	15.58	15.59	0.000	180	182	1077.695	20.10	20.1	99	
88	88	naphthalene	15.78	15.79	0.000	128	129	1633.734	17.77	17.8	100	
89	89	hx-Cl-butadiene	15.72	15.72	0.000	225	258	608.951	22.01	22.0	98	
90	90	123-Tri-Cl-Bz	15.98	15.98	0.000	180	182	916.514	19.60	19.6	99	

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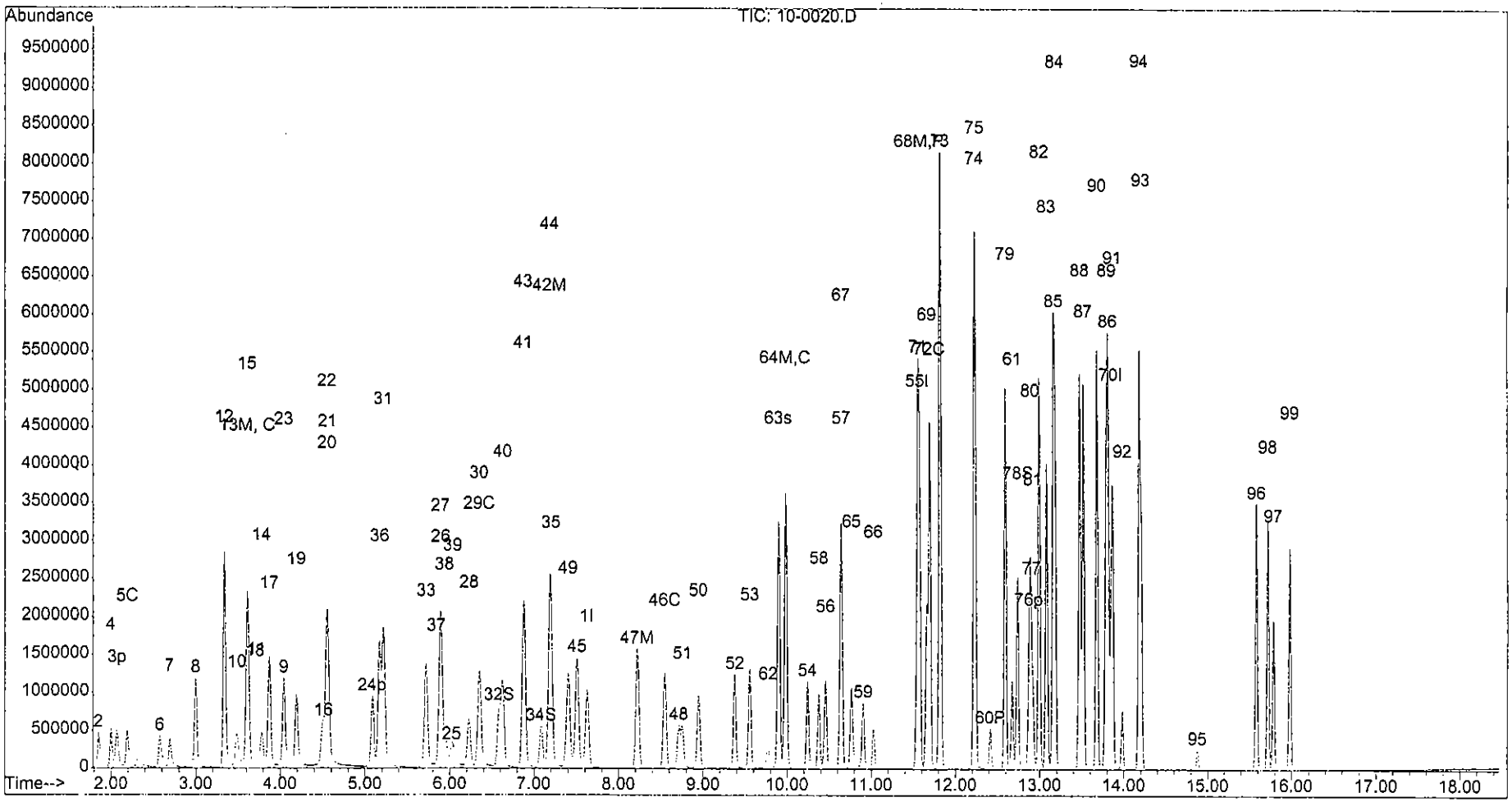
Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0020.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 18:30 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:44 2003
Print Time : Mon Mar 31 09:45 2003
Miscleneous :

Sample : f=1 20ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5386



Quantitation Report: **Applied P &Ch Lab** EPA 8260

5387

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0040.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 19:24 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:47 2003
Print Time : Mon Mar 31 09:47 2003
Miscleneous :

Sample : f=1 40ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
Internal Standards											Dev(Min)	
1	1	Fluorobenzene	7.63	7.63	0.000	96	70	1412.433	10.00		0.00	
47	47	Chlorobezene-d5	11.54	11.54	0.000	117	82	1007.385	10.00		0.00	
62	62	1,4-Dichlorobenze	13.84	13.84	0.000	152	150	473.305	10.00		0.00	
System Monitoring Compounds (Surrogate)											%Recovery	
27	27	Di-Br-F-Me (surr)	6.58	6.58	0.000	111	113	1311.195	43.45	43.5	217.27%	
29	29	1,2-Di-Cl-Et-d4 (	7.09	7.09	0.000	65	102	1176.956	38.37	38.4	191.85%	
55	55	toluene-d8	9.90	9.90	0.000	98	100	5492.872	49.05	49.0	245.24%	
70	70	4-Br-1-F-Bz (S3)	12.74	12.74	0.000	174	95	1533.349	48.21	48.2	241.03%	
Target Compounds											Qvalue	
<<< I1 : ISTD ID = 1 >>>												
3	3	di-Cl-di-F-methan	1.85	1.86	-0.002	85	87	1537.518	35.56	35.6	99	
4	4	Chloromethane	2.06	2.08	-0.001	50	52	1333.124	27.58	27.6	100	
2	2	F114	2.00	2.00	0.000	85	135	733.605	37.86	37.9	82	m
5	5	vinyl chloride	2.19	2.20	0.000	62	64	1503.869	32.83	32.8	99	
6	6	bromomethane	2.58	2.58	0.000	94	96	785.517	24.91	24.9	99	
7	7	chloroethane	2.69	2.70	-0.002	64	66	920.537	32.17	32.2	0	m
8	8	tri-Cl-F-methane	3.00	3.01	-0.002	101	103	2241.613	48.24	48.2	100	
91	91	Acetonitrile X10	4.04	4.00	0.005	41	40	1981.444	1352.28	1352.3	29	#?
9	9	acrolein X10	3.48	3.48	0.000	56	55	1354.015	323.58	323.6	0	m
11	11	acetone X10	3.71	3.67	0.005	43	58	1203.415	234.73	234.7	0	m?
12	12	ethyl ether X5	3.34	3.35	-0.002	59	74	3629.304	198.49	198.5	99	
13	13	11-dichloroethene	3.60	3.62	-0.002	61	96	1792.018	46.37	46.4	0	m?
14	14	Iodomethane	3.78	3.79	-0.002	142	127	1424.862	40.47	40.5	97	
15	15	F-113	3.62	3.63	-0.002	101	151	1343.471	56.56	56.6	97	?
16	16	acrylonitrile X10	4.50	4.49	0.000	53	52	1929.340	295.79	295.8	99	
17	17	carbon disulfide	3.87	3.88	0.000	76	78	5155.522	42.16	42.2	100	
94	94	Isopropyl Alcohol	3.70	3.90	-0.027	45	43	53.652	50.77	50.8	1	m
18	18	methylene chlorid	4.19	4.20	-0.002	84	49	1291.619	26.43	26.4	99	
19	19	t-12-di-Cl-ethene	4.55	4.56	-0.002	96	61	1535.637	47.86	47.9	99	?

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

5388

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0040.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 19:24 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:47 2003
Print Time : Mon Mar 31 09:47 2003
Miscleneous :

Sample : f=1 40ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID	Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
20	20 t-Bu-Me-ether	4.57	4.57	0.000	73	57	2809.850	37.98	38.0	100	?
95	95 Tert butyl alcoho	4.55	4.40	0.019	59	57	309.880	202.72	202.7	1	#?
94	94 allyl chloride	4.04	4.05	0.000	41	76	1981.444	37.25	37.2	95	?
21	21 11-dichloroethane	5.09	5.10	-0.002	63	83	2504.419	44.19	44.2	100	
97	97 propionitrile	6.01	5.98	0.003	54	51	74.203	25.16	25.2	77	#?
22	22 c-12-di-Cl-ethene	5.89	5.90	0.000	96	61	1519.062	43.95	43.9	96	?
23	23 22-Dichloropropan	5.89	5.90	0.000	77	97	1915.303	56.23	56.2	98	?
24	24 Br-Cl-methane	6.23	6.23	0.000	128	130	593.528	35.85	35.9	99	
25	25 chloroform	6.35	6.35	0.000	83	85	2494.537	42.08	42.1	98	?
26	26 tetrahydrofuranX5	6.34	6.32	0.002	42	72	790.362	131.83	131.8	98	?
98	98 Diisopropyl ether	5.22	5.22	0.000	45	87	4112.776	40.66	40.7	99	
99	99 ETBE	5.72	5.72	0.000	59	87	3294.293	43.41	43.4	100	
30	30 12-dichloroethane	7.21	7.21	0.000	64	62	439.257	38.01	38.0	97	?
32	32 vinyl acetate X5	5.17	5.17	0.000	43	86	9370.203	206.97	207.0	99	
92	92 Nitro Methane(x10	5.89	5.78	0.015	61	46	2197.883	3532.84	3532.8	30	#?
33	33 2-butanoneMEK X10	5.93	5.92	0.002	43	72	1835.004	224.23	224.2	98	
93	93 Ethyl Acetate x2	6.02	6.02	0.000	43	61	1689.794	93.36	93.4	93	#?
34	34 111-trichloroetha	6.63	6.63	0.000	97	99	2332.259	51.48	51.5	99	
35	35 11-Di-Cl-propene	6.88	6.89	0.000	75	110	2063.877	49.88	49.9	99	?
36	36 benzene	7.19	7.19	0.000	78	52	5972.223	42.64	42.6	99	?
37	37 CCl4	6.89	6.90	0.000	117	119	2050.691	60.94	60.9	99	?
100	100 Isobutyl alcohol	7.25	7.11	0.018	43	42	117.355	221.69	221.7	34	m
38	38 thiophene	7.51	7.52	0.000	84	58	3083.581	43.72	43.7	99	
39	39 12-di-Cl-propane	8.54	8.55	0.000	63	76	1275.427	43.96	44.0	98	
40	40 trichloroethene	8.23	8.23	0.000	130	132	1664.792	46.66	46.7	97	
41	41 dibromomethane	8.71	8.72	0.000	174	172	609.801	36.12	36.1	97	
101	101 TAME	7.39	7.40	0.000	73	43	2994.595	39.65	39.7	97	
42	42 Br-di-Cl-methane	8.95	8.95	0.000	83	85	1744.848	42.21	42.2	100	
43	43 Me-methacrylate	8.75	8.75	0.000	69	100	655.401	36.43	36.4	99	
44	44 2-ClEt-Vi-ether10	9.37	9.37	0.000	63	43	1551.121	191.45	191.5	99	
45	45 c-13-di-Cl-propen	9.55	9.55	0.000	75	110	1981.413	44.99	45.0	99	
46	46 t-1,3-dichloropro	10.24	10.24	0.000	75	110	1619.889	45.18	45.2	99	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

3/31/03

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0040.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 19:24 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:47 2003
Print Time : Mon Mar 31 09:47 2003
Miscleneous :

Sample : f=1 40ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5389

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
<<< I2 : ISTD ID = 47 >>>												
48	48	112-tri-Cl-Et	10.45	10.45	0.000	97	83	862.039	48.46	48.5	97	
49	49	13-di-Cl-propane	10.64	10.64	0.000	76	78	1541.261	48.89	48.9	98	?
50	50	Et methacrylate	10.37	10.37	0.000	69	99	1395.321	46.31	46.3	99	
51	51	di-Br-Cl-methane	10.90	10.90	0.000	129	127	1110.440	53.33	53.3	100	
52	52	bromoform	12.41	12.42	0.000	173	174	598.350	49.70	49.7	99	
53	53	1,4-dichlorobutan	12.67	12.67	0.000	55	41	1415.056	42.10	42.1	98	
54	54	MIBK	9.76	9.76	0.000	43	58	635.297	37.41	37.4	99	
56	56	toluene	9.98	9.98	0.000	91	92	6436.941	47.52	47.5	99	
57	57	2-hexanone X5	10.76	10.75	0.000	43	58	2031.915	174.02	174.0	98	
58	58	12-dibromoethane	11.03	11.03	0.000	107	109	842.422	46.43	46.4	99	
59	59	tetra-Cl-ethene	10.64	10.64	0.000	166	168	1672.283	53.70	53.7	99	?
60	60	chlorobenzene	11.57	11.57	0.000	112	77	4023.278	43.50	43.5	99	?
61	61	1112-tetra-Cl-Et	11.66	11.66	0.000	131	133	1358.601	61.30	61.3	100	
<<< I3 : ISTD ID = 62 >>>												
63	63	1-chlorohexane	11.56	11.56	0.000	93	55	875.550	67.18	67.2	92	?
64	64	Et-Bz	11.70	11.70	0.000	91	106	7272.072	55.27	55.3	98	
65	65	m/p-Xylenes X2	11.82	11.82	0.000	91	106	10918.251	101.04	101.0	96	
66	66	styrene	12.24	12.24	0.000	104	78	4313.332	48.90	48.9	100	?
67	67	o-xylene	12.22	12.22	0.000	91	106	5706.977	50.24	50.2	98	?
68	68	1122-Tetra-Cl-Et	12.87	12.87	0.000	83	85	964.820	51.32	51.3	100	
69	69	123-tri-Cl-Pr	12.91	12.91	0.000	110	97	274.408	46.90	46.9	99	?
71	71	isopropylbenzene	12.59	12.60	0.000	105	120	7283.454	54.97	55.0	98	
72	72	bromobenzene	12.89	12.89	0.000	156	158	1562.791	48.09	48.1	99	?
92	92	t-1,4-dichloro-2-	12.92	12.92	0.000	89	53	174.039	70.99	71.0	83	#?
73	73	n-propylbenzene	13.00	13.00	0.000	120	78	2147.440	54.33	54.3	98	
74	74	2-Cl-Toluene	13.08	13.08	0.000	126	128	1768.651	50.93	50.9	100	
75	75	4-Cl-Toluene	13.18	13.18	0.000	126	128	1787.025	49.61	49.6	100	?
76	76	135-tri-Me-Benzen	13.16	13.16	0.000	105	120	6157.544	51.13	51.1	97	?
77	77	4-iso-Pr-toluene	13.81	13.81	0.000	119	134	6877.345	51.48	51.5	100	?
78	78	124-tri-Me-Benzen	13.51	13.51	0.000	105	120	6178.974	47.84	47.8	97	
79	79	tert-butylbenzene	13.47	13.47	0.000	119	91	5658.720	53.19	53.2	97	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

5390

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0040.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 19:24 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:47 2003
Print Time : Mon Mar 31 09:47 2003
Miscleneous :

Sample : f=1 40ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
80	80	13-DCB	13.79	13.79	0.000	146	148	3257.265	45.88	45.9	99	?
81	81	sec-butylbenzene	13.68	13.68	0.000	105	134	8272.245	52.80	52.8	98	
82	82	14-DCB	13.87	13.87	0.000	146	148	3232.580	44.43	44.4	100	
83	83	Cl-benzyl	13.98	13.98	0.000	126	91	312.170	64.36	64.4	99	
84	84	12-DCB	14.21	14.21	0.000	146	148	2799.301	42.96	43.0	98	?
85	85	n-butylbenzene	14.18	14.18	0.000	134	91	1862.723	50.81	50.8	94	?
86	86	12-diBr-2-Cl-Pra	14.88	14.88	0.000	157	155	184.762	41.13	41.1	98	
87	87	124-tri-Cl-Bz	15.58	15.59	0.000	180	182	2118.549	41.39	41.4	100	
88	88	naphthalene	15.78	15.79	0.000	128	129	3193.154	36.38	36.4	100	
89	89	hx-Cl-butadiene	15.72	15.72	0.000	225	258	1266.400	47.96	48.0	100	
90	90	123-Tri-Cl-Bz	15.98	15.98	0.000	180	182	1740.600	38.99	39.0	98	

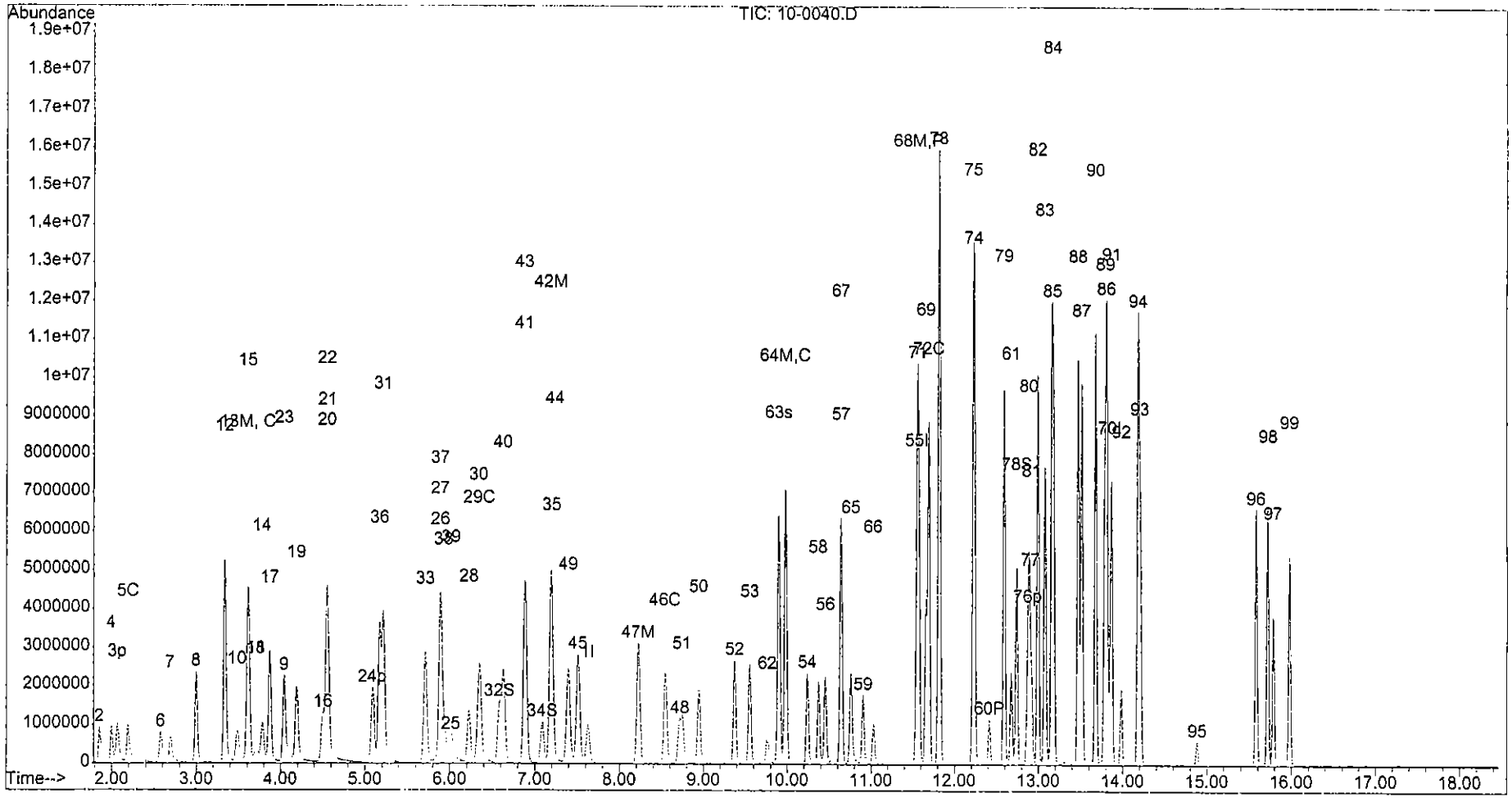
= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0040.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 19:24 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:47 2003
Print Time : Mon Mar 31 09:47 2003
Miscleneous :

Sample : f=1 40ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5391



Quantitation Report: **Applied P &Ch Lab** EPA 8260

5392

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0060.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 20:17 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:50 2003
Print Time : Mon Mar 31 09:50 2003
Miscleneous :

Sample : f=1 60ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
Internal Standards											Dev(Min)	
1	1	Fluorobenzene	7.63	7.63	0.000	96	70	1400.715	10.00		0.00	
47	47	Chlorobezene-d5	11.54	11.54	0.000	117	82	1007.143	10.00		0.00	
62	62	1,4-Dichlorobenze	13.84	13.84	0.000	152	150	466.660	10.00		0.00	
System Monitoring Compounds (Surrogate)											%Recovery	
27	27	Di-Br-F-Me (surr)	6.59	6.58	0.000	111	113	1902.499	63.58	63.6	317.89%	
29	29	1,2-Di-Cl-Et-d4 (	7.08	7.09	0.000	65	102	1708.276	56.16	56.2	280.79%	
55	55	toluene-d8	9.90	9.90	0.000	98	100	7796.171	69.63	69.6	348.16%	
70	70	4-Br-1-F-Bz (S3)	12.74	12.74	0.000	174	95	2198.848	70.11	70.1	350.56%	
Target Compounds											Qvalue	
<<< I1 : ISTD ID = 1 >>>												
3	3	di-Cl-di-F-methan	1.85	1.86	-0.002	85	87	1972.057	45.99	46.0	99	
4	4	Chloromethane	2.06	2.08	-0.001	50	52	1882.279	39.27	39.3	99	
2	2	F114	2.00	2.00	0.000	85	135	974.692	50.72	50.7	95	
5	5	vinyl chloride	2.19	2.20	0.000	62	64	2051.199	45.15	45.1	99	
6	6	bromomethane	2.58	2.58	0.000	94	96	1151.335	36.82	36.8	99	
7	7	chloroethane	2.70	2.70	0.000	64	66	1294.623	45.61	45.6	100	
8	8	tri-Cl-F-methane	3.00	3.01	-0.002	101	103	2920.268	63.37	63.4	100	
91	91	Acetonitrile X10	4.04	4.00	0.005	41	40	2545.093	1751.49	1751.5	28	#?
9	9	acrolein X10	3.49	3.48	0.000	56	55	1908.483	459.90	459.9	99	
11	11	acetone X10	3.74	3.67	0.009	43	58	1741.743	342.57	342.6	73	m 03/31/03
12	12	ethyl ether X5	3.34	3.35	-0.002	59	74	5150.102	284.01	284.0	99	
13	13	11-dichloroethene	3.60	3.62	-0.002	61	96	2421.004	63.16	63.2	97	?
14	14	Iodomethane	3.78	3.79	-0.002	142	127	2050.698	58.73	58.7	96	
15	15	F-113	3.62	3.63	-0.002	101	151	1714.509	72.78	72.8	99	?
16	16	acrylonitrile X10	4.50	4.49	0.002	53	52	2786.466	430.77	430.8	98	
17	17	carbon disulfide	3.87	3.88	0.000	76	78	6945.088	57.27	57.3	99	
94	94	Isopropyl Alcohol	3.70	3.90	-0.026	45	43	60.395	57.63	57.6	1	m 03/31/03
18	18	methylene chlorid	4.19	4.20	-0.002	84	49	1876.442	38.72	38.7	99	
19	19	t-12-di-Cl-ethene	4.55	4.56	-0.002	96	61	2159.090	67.85	67.9	98	?

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

5393

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0060.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 20:17 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:50 2003
Print Time : Mon Mar 31 09:50 2003
Miscleneous :

Sample : f=1 60ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID	Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
20	20 t-Bu-Me-ether	4.56	4.57	-0.002	73	57	4095.292	55.81	55.8	100	?
95	95 Tert butyl alcoho	4.55	4.40	0.019	59	57	244.429	161.24	161.2	1	#?
94	94 allyl chloride	4.04	4.05	0.000	41	76	2545.093	48.24	48.2	87	#?
21	21 11-dichloroethane	5.09	5.10	-0.002	63	83	3588.511	63.85	63.8	100	
97	97 propionitrile	6.03	5.98	0.006	54	51	104.848	35.85	35.8	77	m
22	22 c-12-di-Cl-ethene	5.89	5.90	0.000	96	61	2211.008	64.50	64.5	97	?
23	23 22-Dichloropropan	5.89	5.90	0.000	77	97	2688.487	79.58	79.6	98	?
24	24 Br-Cl-methane	6.23	6.23	0.000	128	130	865.536	52.72	52.7	98	
25	25 chloroform	6.35	6.35	0.000	83	85	3609.401	61.40	61.4	98	?
26	26 tetrahydrofuranX5	6.34	6.32	0.002	42	72	1173.186	197.31	197.3	96	?
98	98 Diisopropyl ether	5.22	5.22	0.000	45	87	5938.451	59.20	59.2	98	
99	99 ETBE	5.72	5.72	0.000	59	87	4912.092	65.26	65.3	99	
30	30 12-dichloroethane	7.21	7.21	0.000	64	62	631.642	55.11	55.1	97	?
32	32 vinyl acetate X5	5.17	5.17	0.000	43	86	13254.307	295.21	295.2	98	
92	92 Nitro Methane(x10	5.89	5.78	0.015	61	46	3164.808	5129.61	5129.6	37	#?
33	33 2-butanoneMEK X10	5.95	5.92	0.004	43	72	2621.391	323.01	323.0	99	
93	93 Ethyl Acetate x2	6.02	6.02	0.000	43	61	2243.912	125.01	125.0	94	?
34	34 111-trichloroetha	6.63	6.63	0.000	97	99	3272.931	72.84	72.8	100	
35	35 11-Di-Cl-propene	6.88	6.89	0.000	75	110	2822.864	68.79	68.8	99	?
36	36 benzene	7.19	7.19	0.000	78	52	8547.309	61.53	61.5	98	?
37	37 CCl4	6.89	6.90	0.000	117	119	2812.796	84.28	84.3	97	?
100	100 Isobutyl alcohol	7.25	7.11	0.018	43	42	167.235	318.56	318.6	44	m
38	38 thiophene	7.51	7.52	0.000	84	58	4494.310	64.26	64.3	100	
39	39 12-di-Cl-propane	8.54	8.55	0.000	63	76	1856.699	64.53	64.5	98	
40	40 trichloroethene	8.23	8.23	0.000	130	132	2353.937	66.52	66.5	98	
41	41 dibromomethane	8.71	8.72	0.000	174	172	879.445	52.53	52.5	98	
101	101 TAME	7.39	7.40	0.000	73	43	4479.028	59.80	59.8	99	
42	42 Br-di-Cl-methane	8.95	8.95	0.000	83	85	2551.794	62.25	62.3	99	
43	43 Me-methacrylate	8.75	8.75	0.000	69	100	947.564	53.11	53.1	99	
44	44 2-ClEt-Vi-ether10	9.37	9.37	0.000	63	43	2307.334	287.17	287.2	98	
45	45 c-13-di-Cl-propen	9.55	9.55	0.000	75	110	2911.762	66.66	66.7	99	
46	46 t-1,3-dichloropro	10.24	10.24	0.000	75	110	2349.418	66.08	66.1	100	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

5394

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0060.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 20:17 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:50 2003
Print Time : Mon Mar 31 09:50 2003
Miscleneous :

Sample : f=1 60ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
<<< I2 : ISTD ID = 47 >>>												
48	48	112-tri-Cl-Et	10.45	10.45	0.000	97	83	1245.491	70.03	70.0	96	
49	49	13-di-Cl-propane	10.65	10.64	0.000	76	78	2185.204	69.34	69.3	98	?
50	50	Et methacrylate	10.37	10.37	0.000	69	99	2018.328	67.00	67.0	100	
51	51	di-Br-Cl-methane	10.90	10.90	0.000	129	127	1612.394	77.45	77.5	99	
52	52	bromoform	12.41	12.42	0.000	173	174	865.181	71.89	71.9	100	
53	53	1,4-dichlorobutan	12.67	12.67	0.000	55	41	1998.159	59.46	59.5	98	
54	54	MIBK	9.76	9.76	0.000	43	58	913.350	53.79	53.8	100	
56	56	toluene	9.98	9.98	0.000	91	92	9003.846	66.48	66.5	98	
57	57	2-hexanone X5	10.76	10.75	0.000	43	58	2868.357	245.72	245.7	97	
58	58	12-dibromoethane	11.03	11.03	0.000	107	109	1213.791	66.92	66.9	100	
59	59	tetra-Cl-ethene	10.64	10.64	0.000	166	168	2271.115	72.95	72.9	100	?
60	60	chlorobenzene	11.57	11.57	0.000	112	77	5789.041	62.61	62.6	100	?
61	61	1112-tetra-Cl-Et	11.66	11.66	0.000	131	133	1988.434	89.74	89.7	99	
<<< I3 : ISTD ID = 62 >>>												
63	63	1-chlorohexane	11.56	11.56	0.000	93	55	1173.405	91.31	91.3	89	?
64	64	Et-Bz	11.70	11.70	0.000	91	106	10104.426	77.89	77.9	96	
65	65	m/p-Xylenes X2	11.82	11.82	0.000	91	106	14861.766	139.49	139.5	93	
66	66	styrene	12.24	12.24	0.000	104	78	6092.272	70.05	70.1	99	?
67	67	o-xylene	12.22	12.22	0.000	91	106	7984.326	71.30	71.3	96	?
68	68	1122-Tetra-Cl-Et	12.87	12.87	0.000	83	85	1348.818	72.76	72.8	99	
69	69	123-tri-Cl-Pr	12.91	12.91	0.000	110	97	386.049	66.92	66.9	100	?
71	71	isopropylbenzene	12.60	12.60	0.000	105	120	10015.298	76.66	76.7	97	
72	72	bromobenzene	12.89	12.89	0.000	156	158	2219.172	69.26	69.3	99	?
92	92	t-1,4-dichloro-2-	12.92	12.92	0.000	89	53	258.524	106.95	106.9	81	#?
73	73	n-propylbenzene	13.00	13.00	0.000	120	78	2993.047	76.81	76.8	98	
74	74	2-Cl-Toluene	13.08	13.08	0.000	126	128	2511.389	73.35	73.4	100	
75	75	4-Cl-Toluene	13.18	13.18	0.000	126	128	2516.053	70.84	70.8	99	?
76	76	135-tri-Me-Benzen	13.16	13.16	0.000	105	120	8461.302	71.26	71.3	96	?
77	77	4-iso-Pr-toluene	13.81	13.81	0.000	119	134	9299.329	70.60	70.6	100	?
78	78	124-tri-Me-Benzen	13.51	13.51	0.000	105	120	8636.660	67.82	67.8	97	
79	79	tert-butylbenzene	13.47	13.47	0.000	119	91	7790.717	74.27	74.3	98	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

5395

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0060.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 20:17 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:50 2003
Print Time : Mon Mar 31 09:50 2003
Miscleneous :

Sample : f=1 60ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
80	80	13-DCB	13.79	13.79	0.000	146	148	4592.008	65.60	65.6	100	?
81	81	sec-butylbenzene	13.68	13.68	0.000	105	134	11100.655	71.86	71.9	97	
82	82	14-DCB	13.87	13.87	0.000	146	148	4565.239	63.63	63.6	99	
83	83	Cl-benzyl	13.98	13.98	0.000	126	91	454.087	94.95	94.9	96	
84	84	12-DCB	14.21	14.21	0.000	146	148	3968.647	61.77	61.8	98	?
85	85	n-butylbenzene	14.18	14.18	0.000	134	91	2572.119	71.16	71.2	88	#?
86	86	12-diBr-2-Cl-Pra	14.88	14.88	0.000	157	155	265.893	60.03	60.0	95	
87	87	124-tri-Cl-Bz	15.58	15.59	0.000	180	182	2975.216	58.95	59.0	99	
88	88	naphthalene	15.79	15.79	0.000	128	129	4499.282	52.00	52.0	99	
89	89	hx-Cl-butadiene	15.72	15.72	0.000	225	258	1730.110	66.46	66.5	99	
90	90	123-Tri-Cl-Bz	15.98	15.98	0.000	180	182	2447.267	55.60	55.6	99	

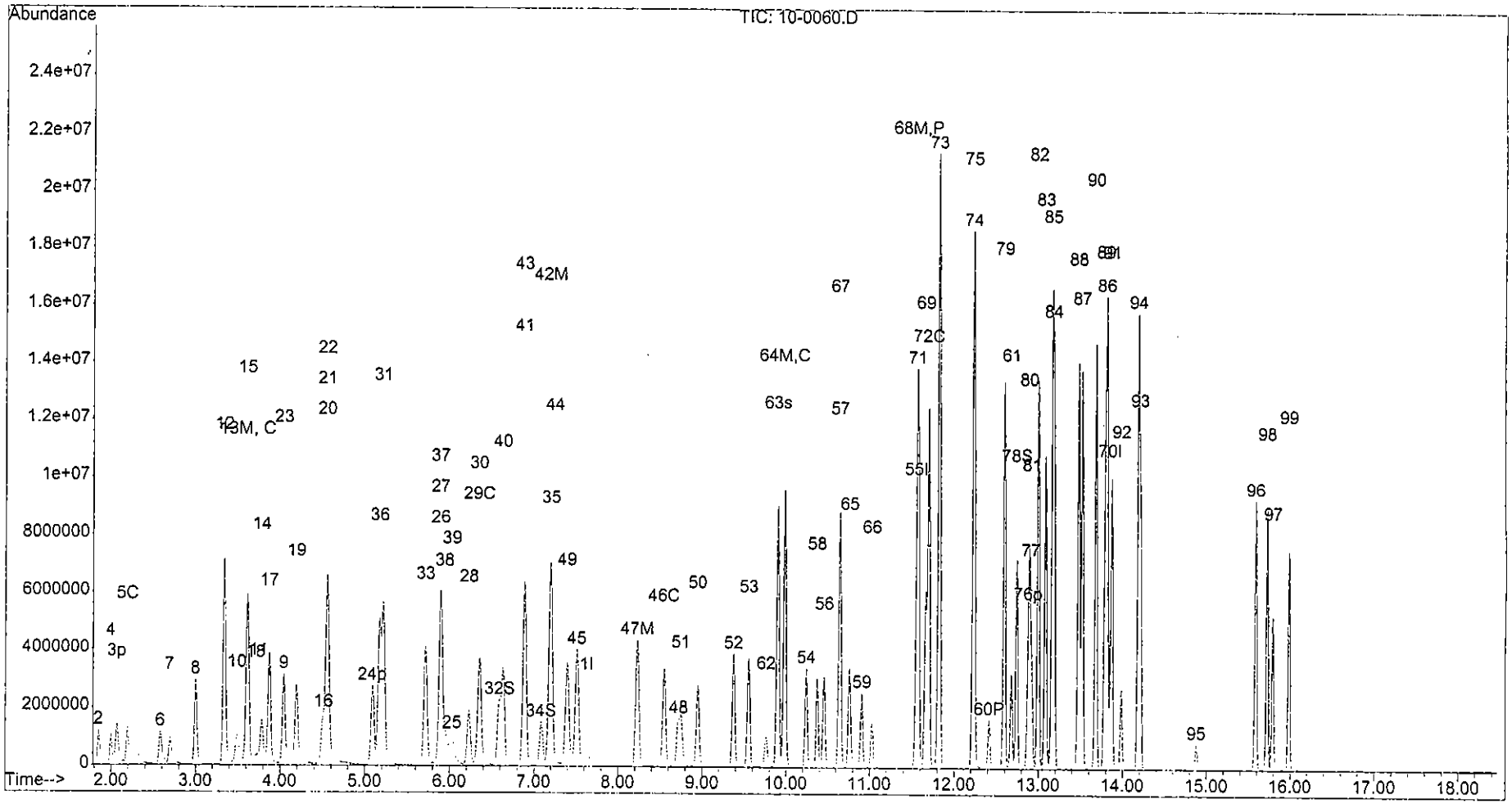
= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G1873\10-0060.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 30 20:17 2003
Method Update: Mon Mar 31 09:16 2003
Quant. Time : Mar 31 09:50 2003
Print Time : Mon Mar 31 09:50 2003
Miscleneous :

Sample : f=1 60ppb
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5396



Quantitation Report: **Applied P &Ch Lab** EPA 8260

5397

Data Filename: C:\MSDCHEM\1\DATA\03G1873\G1873Q01.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 31 11:23 2003
Method Update: Mon Mar 31 17:23 2003
Quant. Time : Apr 01 16:55 2003
Print Time : Tue Apr 01 16:56 2003
Miscleneous :

Sample : f=1
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
Internal Standards										Dev(Min)		
1	1	Fluorobenzene	7.63	7.63	0.000	96	70	1368.727	10.00		0.00	
47	47	Chlorobezene-d5	11.54	11.54	0.000	117	82	990.921	10.00		0.00	
62	62	1,4-Dichlorobenze	13.84	13.84	0.000	152	150	475.010	10.00		0.00	
System Monitoring Compounds (Surrogate)										%Recovery		
27	27	Di-Br-F-Me (surr)	6.58	6.58	0.000	111	113	601.942	19.11	19.1	95.54%	
29	29	1,2-Di-Cl-Et-d4 (	7.08	7.09	0.000	65	102	554.705	18.98	19.0	94.89%	
55	55	toluene-d8	9.89	9.90	0.000	98	100	2561.857	20.30	20.3	101.51%	
70	70	4-Br-1-F-Bz (S3)	12.74	12.74	0.000	174	95	726.383	20.09	20.1	100.47%	
Target Compounds										Qvalue		
<<< I1 : ISTD ID = 1 >>>												
3	3	di-Cl-di-F-methan	1.85	1.86	-0.002	85	87	741.370	21.73	21.7	100	
4	4	Chloromethane	2.07	2.08	0.000	50	52	661.349	18.88	18.9	100	
2	2	F114	2.00	2.00	0.000	85	135	280.677	16.60	16.6	71	#
5	5	vinyl chloride	2.19	2.20	0.000	62	64	720.079	21.15	21.2	100	
6	6	bromomethane	2.58	2.58	0.000	94	96	399.967	19.52	19.5	98	
7	7	chloroethane	2.70	2.70	0.000	64	66	433.600	20.06	20.1	100	
8	8	tri-Cl-F-methane	3.00	3.01	-0.002	101	103	1076.048	21.03	21.0	100	
91	91	Acetonitrile X10	4.04	4.00	0.005	41	40	1070.005	246.26	246.3	36	#?
9	9	acrolein X10	3.48	3.48	0.000	56	55	678.813	209.60	209.6	98	
11	11	acetone X10	3.69	3.67	0.003	43	58	1176.174	406.80	406.8	0	m 04-1-03
12	12	ethyl ether X5	3.34	3.35	-0.002	59	74	1724.155	98.97	99.0	98	
13	13	11-dichloroethene	3.60	3.62	-0.002	61	96	874.142	20.89	20.9	98	?
14	14	Iodomethane	3.78	3.79	-0.002	142	127	520.631	16.97	17.0	98	
15	15	F-113	3.62	3.63	-0.002	101	151	651.408	21.33	21.3	96	?
16	16	acrylonitrile X10	4.49	4.49	0.000	53	52	973.752	215.75	215.8	98	?
17	17	carbon disulfide	3.87	3.88	0.000	76	78	2437.363	20.17	20.2	100	
94	94	Isopropyl Alcohol	3.98	3.90	0.010	45	43	28.548	197.35	197.3	83	m
18	18	methylene chlorid	4.19	4.20	-0.002	84	49	604.208	19.57	19.6	96	04/01/03
19	19	t-12-di-Cl-ethene	4.55	4.56	-0.002	96	61	713.946	20.47	20.5	100	?

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

5398

Data Filename: C:\MSDCHEM\1\DATA\03G1873\G1873Q01.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 31 11:23 2003
Method Update: Mon Mar 31 17:23 2003
Quant. Time : Apr 01 16:55 2003
Print Time : Tue Apr 01 16:56 2003
Miscleneous :

Sample : f=1
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID	Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
20	20 t-Bu-Me-ether	4.56	4.57	-0.002	73	57	1327.037	20.89	20.9	99	?
95	95 Tert butyl alcoho	4.47	4.40	0.009	59	57	176.548	327.15	327.2	76	m?
94	94 allyl chloride	4.04	4.05	0.000	41	76	1070.005	24.63	24.6	94	?
21	21 11-dichloroethane	5.09	5.10	-0.002	63	83	1166.120	20.11	20.1	100	
97	97 propionitrile	5.99	5.98	0.002	54	51	36.762	22.48	22.5	89	#?
22	22 c-12-di-Cl-ethene	5.89	5.90	0.000	96	61	700.066	20.15	20.2	96	?
23	23 22-Dichloropropan	5.89	5.90	0.000	77	97	1001.720	23.76	23.8	97	?
24	24 Br-Cl-methane	6.23	6.23	0.000	128	130	277.371	20.19	20.2	100	
25	25 chloroform	6.35	6.35	0.000	83	85	1161.116	19.87	19.9	100	
26	26 tetrahydrofuranX5	6.32	6.32	0.000	42	72	406.139	108.33	108.3	100	
98	98 Diisopropyl ether	5.22	5.22	0.000	45	87	1944.605	20.64	20.6	99	
99	99 ETBE	5.72	5.72	0.000	59	87	1549.359	21.40	21.4	99	
30	30 12-dichloroethane	7.20	7.21	0.000	64	62	206.286	19.20	19.2	94	?
32	32 vinyl acetate X5	5.17	5.17	0.000	43	86	4669.659	110.34	110.3	99	
92	92 Nitro Methane(x10	5.89	5.78	0.015	61	46	1077.538	214.79	214.8	89	m?
33	33 2-butanoneMEK X10	5.92	5.92	0.000	43	72	1476.006	341.42	341.4	99	
93	93 Ethyl Acetate x2	6.02	6.02	0.000	43	61	620.361	34.74	34.7	100	?
34	34 111-trichloroetha	6.63	6.63	0.000	97	99	1093.847	20.91	20.9	99	
35	35 11-Di-Cl-propene	6.88	6.89	0.000	75	110	971.176	21.62	21.6	98	?
36	36 benzene	7.19	7.19	0.000	78	52	2793.127	20.29	20.3	100	?
37	37 CCl4	6.89	6.90	0.000	117	119	971.044	22.00	22.0	99	?
100	100 Isobutyl alcohol	7.17	7.11	0.007	43	42	75.401	298.26	298.3	75	#?
38	38 thiophene	7.51	7.52	0.000	84	58	1419.494	20.38	20.4	100	
39	39 12-di-Cl-propane	8.54	8.55	0.000	63	76	590.506	20.00	20.0	98	
40	40 trichloroethene	8.23	8.23	0.000	130	132	773.276	20.57	20.6	98	
41	41 dibromomethane	8.71	8.72	0.000	174	172	286.188	20.05	20.1	99	
101	101 TAME	7.39	7.40	0.000	73	43	1379.878	21.29	21.3	99	
42	42 Br-di-Cl-methane	8.95	8.95	0.000	83	85	809.806	19.91	19.9	99	
43	43 Me-methacrylate	8.75	8.75	0.000	69	100	296.715	21.43	21.4	100	
44	44 2-ClEt-Vi-ether10	9.37	9.37	0.000	63	43	656.758	189.96	190.0	99	
45	45 c-13-di-Cl-propen	9.55	9.55	0.000	75	110	929.845	21.31	21.3	99	
46	46 t-1,3-dichloropro	10.24	10.24	0.000	75	110	753.733	20.06	20.1	100	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

5399

Data Filename: C:\MSDCHEM\1\DATA\03G1873\G1873Q01.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 31 11:23 2003
Method Update: Mon Mar 31 17:23 2003
Quant. Time : Apr 01 16:55 2003
Print Time : Tue Apr 01 16:56 2003
Miscleneous :

Sample : f=1
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
<<< I2 : ISTD ID = 47 >>>												
48	48	112-tri-Cl-Et	10.45	10.45	0.000	97	83	400.240	19.41	19.4	97	
49	49	13-di-Cl-propane	10.64	10.64	0.000	76	78	724.022	19.85	19.9	97	?
50	50	Et methacrylate	10.37	10.37	0.000	69	99	645.437	19.93	19.9	98	
51	51	di-Br-Cl-methane	10.90	10.90	0.000	129	127	511.391	20.19	20.2	99	
52	52	bromoform	12.41	12.42	0.000	173	174	277.330	20.51	20.5	100	
53	53	1,4-dichlorobutan	12.67	12.67	0.000	55	41	669.042	20.30	20.3	99	
54	54	MIBK	9.76	9.76	0.000	43	58	305.965	21.85	21.8	100	
56	56	toluene	9.98	9.98	0.000	91	92	3033.999	20.46	20.5	99	
57	57	2-hexanone X5	10.75	10.75	0.000	43	58	1173.805	126.30	126.3	99	
58	58	12-dibromoethane	11.03	11.03	0.000	107	109	390.783	20.22	20.2	99	
59	59	tetra-Cl-ethene	10.64	10.64	0.000	166	168	788.680	20.67	20.7	99	?
60	60	chlorobenzene	11.57	11.57	0.000	112	77	1881.441	19.70	19.7	99	?
61	61	1112-tetra-Cl-Et	11.66	11.66	0.000	131	133	625.678	20.49	20.5	100	
<<< I3 : ISTD ID = 62 >>>												
63	63	1-chlorohexane	11.56	11.56	0.000	93	55	412.220	21.56	21.6	95	?
64	64	Et-Bz	11.69	11.70	0.000	91	106	3447.718	20.62	20.6	100	
65	65	m/p-Xylenes X2	11.82	11.82	0.000	91	106	5339.007	41.60	41.6	99	
66	66	styrene	12.23	12.24	0.000	104	78	2029.274	20.70	20.7	95	?
67	67	o-xylene	12.22	12.22	0.000	91	106	2725.834	20.72	20.7	100	?
68	68	1122-Tetra-Cl-Et	12.87	12.87	0.000	83	85	455.744	19.75	19.7	100	
69	69	123-tri-Cl-Pr	12.91	12.91	0.000	110	97	132.793	19.81	19.8	98	?
71	71	isopropylbenzene	12.59	12.60	0.000	105	120	3479.814	21.39	21.4	100	
72	72	bromobenzene	12.89	12.89	0.000	156	158	728.472	20.10	20.1	98	?
92	92	t-1,4-dichloro-2-	12.92	12.92	0.000	89	53	84.585	20.63	20.6	87	?
73	73	n-propylbenzene	12.99	13.00	0.000	120	78	1008.223	21.04	21.0	98	
74	74	2-Cl-Toluene	13.08	13.08	0.000	126	128	824.496	20.37	20.4	99	
75	75	4-Cl-Toluene	13.18	13.18	0.000	126	128	833.847	20.09	20.1	100	?
76	76	135-tri-Me-Benzen	13.16	13.16	0.000	105	120	2952.093	21.12	21.1	100	?
77	77	4-iso-Pr-toluene	13.81	13.81	0.000	119	134	3270.475	21.51	21.5	99	?
78	78	124-tri-Me-Benzen	13.51	13.51	0.000	105	120	2964.425	20.67	20.7	99	
79	79	tert-butylbenzene	13.47	13.47	0.000	119	91	2692.825	21.47	21.5	99	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

5400

Data Filename: C:\MSDCHEM\1\DATA\03G1873\G1873Q01.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 31 11:23 2003
Method Update: Mon Mar 31 17:23 2003
Quant. Time : Apr 01 16:55 2003
Print Time : Tue Apr 01 16:56 2003
Miscleneous :

Sample : f=1
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
80	80	13-DCB	13.78	13.79	0.000	146	148	1556.307	20.05	20.0	100	?
81	81	sec-butylbenzene	13.68	13.68	0.000	105	134	4017.320	21.79	21.8	100	
82	82	14-DCB	13.87	13.87	0.000	146	148	1531.461	19.66	19.7	100	
83	83	Cl-benzyl	13.98	13.98	0.000	126	91	168.740	23.24	23.2	99	
84	84	12-DCB	14.21	14.21	0.000	146	148	1340.369	20.02	20.0	99	?
85	85	n-butylbenzene	14.18	14.18	0.000	134	91	881.737	22.22	22.2	99	?
86	86	12-diBr-2-Cl-Pra	14.88	14.88	0.000	157	155	85.047	19.69	19.7	96	
87	87	124-tri-Cl-Bz	15.58	15.59	0.000	180	182	1018.933	21.10	21.1	99	
88	88	naphthalene	15.78	15.79	0.000	128	129	1524.214	21.53	21.5	100	
89	89	hx-Cl-butadiene	15.72	15.72	0.000	225	258	609.808	21.16	21.2	98	
90	90	123-Tri-Cl-Bz	15.98	15.98	0.000	180	182	835.712	20.81	20.8	100	

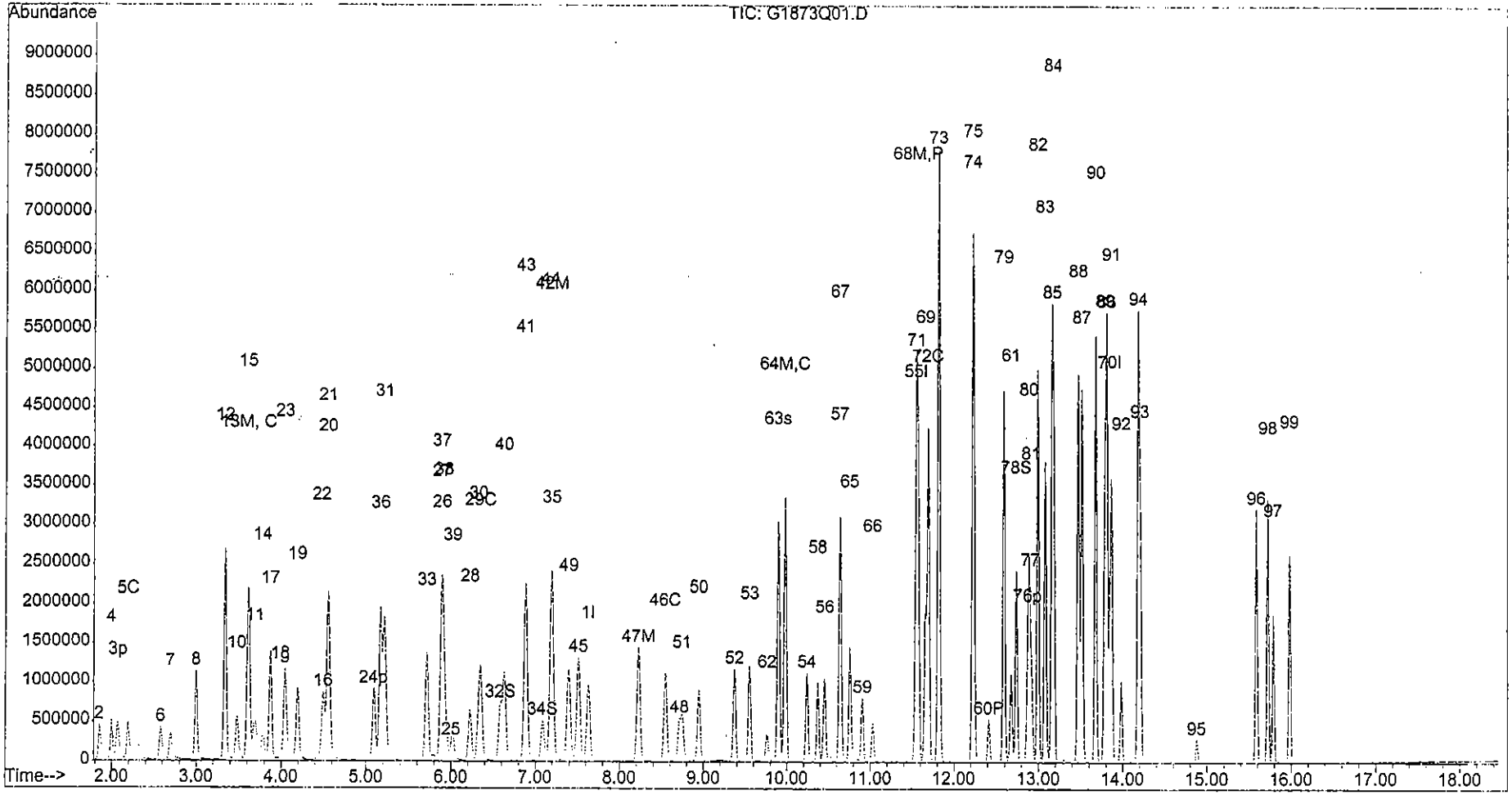
= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G1873\G1873Q01.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : Mar 31 11:23 2003
Method Update: Mon Mar 31 17:23 2003
Quant. Time : Apr 01 16:55 2003
Print Time : Tue Apr 01 16:56 2003
Miscleneous :

Sample : f=1
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5401



Continuing Calibration Concentration Summary

Data File G1873Q01
Method File 826WA010

Compound Name	Amount	Actual	Units	%Dev	Target Response
1 Fluorobenzene	10	10.00	ppb	0.00	1368727
3 di-Cl-di-F-methane	20	21.73	ppb	8.66	741370
4 Chloromethane	20	18.88	ppb	5.62	661349
2 F114	20	16.60	ppb	16.99	280677
5 vinyl chloride	20	21.15	ppb	5.76	720079
6 bromomethane	20	19.52	ppb	2.40	399967
7 chloroethane	20	20.06	ppb	0.31	433600
8 tri-Cl-F-methane	20	21.03	ppb	5.13	1076048
91 Acetonitrile X10	200	246.26	ppb	23.13	1070005
9 acrolein X10	200	209.60	ppb	4.80	678813
11 acetone X10	200	406.80	ppb	103.40	1176174
12 ethyl ether X5	100	98.97	ppb	1.03	1724155
13 11-dichloroethene	20	20.89	ppb	4.45	874142
14 Iodomethane	20	16.97	ppb	15.15	520631
15 F-113	20	21.33	ppb	6.66	651408
16 acrylonitrile X10	200	215.75	ppb	7.88	973752
17 carbon disulfide	20	20.17	ppb	0.83	2437363
94 Isopropyl Alcoholx10	200	197.35	ppb	1.33	28548
18 methylene chloride	20	19.57	ppb	2.13	604208
19 t-12-di-Cl-ethene	20	20.47	ppb	2.36	713946
20 t-Bu-Me-ether	20	20.89	ppb	4.44	1327037
95 Tert butyl alcoholx10	200	327.15	ppb	63.58	176548
94 allyl chloride	20	24.63	ppb	23.13	1070005
21 11-dichloroethane	20	20.11	ppb	0.57	1166120
97 propionitrile	20	22.48	ppb	12.41	36762
22 c-12-di-Cl-ethene	20	20.15	ppb	0.77	700066
23 22-Dichloropropane	20	23.76	ppb	18.79	1001720
24 Br-Cl-methane	20	20.19	ppb	0.95	277371
25 chloroform	20	19.87	ppb	0.65	1161116
26 tetrahydrofuranX5	100	108.33	ppb	8.33	406139
98 Diisopropyl ether	20	20.64	ppb	3.19	1944605
27 Di-Br-F-Me (surr)	20	19.11	ppb	4.46	601942
99 ETBE	20	21.40	ppb	7.02	1549359
29 1,2-Di-Cl-Et-d4 (S1)	20	18.98	ppb	5.11	554705
30 12-dichloroethane	20	19.20	ppb	4.02	206286
32 vinyl acetate X5	100	110.34	ppb	10.34	4669659
92 Nitro Methane(x10)	200	214.79	ppb	7.39	1077538
33 2-butanoneMEK X10	200	341.42	ppb	70.71	1476006
93 Ethyl Acetate x2	40	34.74	ppb	13.15	620361
34 111-trichloroethane	20	20.91	ppb	4.56	1093847
35 11-Di-Cl-propene	20	21.62	ppb	8.09	971176
36 benzene	20	20.29	ppb	1.44	2793127
37 CCl4	20	22.00	ppb	9.99	971044

Compound Name	Amount	Actual	Units	%Dev	Target Response
100 Isobutyl alcoholx10	200	298.26	ppb	49.13	75401
38 thiophene	20	20.38	ppb	1.91	1419494
39 12-di-Cl-propane	20	20.00	ppb	0.00	590506
40 trichloroethene	20	20.57	ppb	2.84	773276
41 dibromomethane	20	20.05	ppb	0.26	286188
101 TAME	20	21.29	ppb	6.44	1379878
42 Br-di-Cl-methane	20	19.91	ppb	0.47	809806
43 Me-methacrylate	20	21.43	ppb	7.13	296715
44 2-ClEt-Vi-ether10	200	189.96	ppb	5.02	656758
45 c-13-di-Cl-propene	20	21.31	ppb	6.56	929845
46 t-1,3-dichloropropene	20	20.06	ppb	0.32	753733
47 Chlorobezene-d5	10	10.00	ppb	0.00	990921
48 112-tri-Cl-Et	20	19.41	ppb	2.95	400240
49 13-di-Cl-propane	20	19.85	ppb	0.74	724022
50 Et methacrylate	20	19.93	ppb	0.33	645437

Compound Name	Amount	Actual	Units	%Dev	Target Response
51 di-Br-Cl-methane	20	20.19	ppb	0.94	511391
52 bromoform	20	20.51	ppb	2.57	277330
53 1,4-dichlorobutane-2	20	20.30	ppb	1.52	669042
54 MIBK	20	21.85	ppb	9.24	305965
55 toluene-d8	20	20.30	ppb	1.51	2561857
56 toluene	20	20.46	ppb	2.28	3033999
57 2-hexanone X5	100	126.30	ppb	26.30	1173805
58 12-dibromoethane	20	20.22	ppb	1.09	390783
59 tetra-Cl-ethene	20	20.67	ppb	3.34	788680
60 chlorobenzene	20	19.70	ppb	1.52	1881441
61 1112-tetra-Cl-Et	20	20.49	ppb	2.45	625678
62 1,4-Dichlorobenzene-d4	10	10.00	ppb	0.00	475010
63 1-chlorohexane	20	21.56	ppb	7.81	412220
64 Et-Bz	20	20.62	ppb	3.09	3447718
65 m/p-Xylenes X2	40	41.60	ppb	4.01	5339007
66 styrene	20	20.70	PPB	3.50	2029274
67 o-xylene	20	20.72	ppb	3.59	2725834
68 1122-Tetra-Cl-Et	20	19.75	ppb	1.26	455744
69 123-tri-Cl-Pr	20	19.81	ppb	0.97	132793
70 4-Br-1-F-Bz (S3)	20	20.09	ppb	0.47	726383
71 isopropylbenzene	20	21.39	ppb	6.95	3479814
72 bromobenzene	20	20.10	ppb	0.48	728472
92 t-1,4-dichloro-2-butene	20	20.63	ppb	3.16	84585
73 n-propylbenzene	20	21.04	ppb	5.22	1008223
74 2-Cl-Toluene	20	20.37	ppb	1.84	824496
75 4-Cl-Toluene	20	20.09	ppb	0.46	833847
76 135-tri-Me-Benzene	20	21.12	ppb	5.60	2952093
77 4-iso-Pr-toluene	20	21.51	ppb	7.56	3270475
78 124-tri-Me-Benzene	20	20.67	ppb	3.34	2964425
79 tert-butylbenzene	20	21.47	ppb	7.36	2692825
80 13-DCB	20	20.05	ppb	0.24	1556307
81 sec-butylbenzene	20	21.79	ppb	8.95	4017320

82 14-DCB	20	19.66	ppb	1.72	1531461
83 Cl-benzyl	20	23.24	ppb	16.22	168740
84 12-DCB	20	20.02	ppb	0.11	1340369
85 n-butylbenzene	20	22.22	ppb	11.10	881737
86 12-diBr-2-Cl-Pra	20	19.69	ppb	1.57	85047
87 124-tri-Cl-Bz	20	21.10	ppb	5.48	1018933
88 naphthalene	20	21.53	ppb	7.67	1524214
89 hx-Cl-butadiene	20	21.16	ppb	5.79	609808
90 123-Tri-Cl-Bz	20	20.81	ppb	4.04	835712

Average D % 7.8148853

Evaluate Continuing Calibration Report

5405

Data File : C:\MSDCHEM\1\DATA\03G1873\G1873Q01.D Vial: 3
Acq On : 31 Mar 2003 11:23 am Operator: zou
Sample : f=1 Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\826WA010.M (RTE Integrator)
Title : **Applied P &Ch Lab** EPA 8260
Last Update : Mon Mar 31 17:23:34 2003
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

			Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1	Fluorobenzene	1.000	1.000	0.0	96	0.00
2		3	di-Cl-di-F-methane	0.249	0.271	-8.8	104	-0.01
3	p	4	Chloromethane	0.256	0.242	5.5	94	0.00
4		2	F114	0.124	0.103	16.9	74	0.00
5	C	5	vinyl chloride	0.249	0.263	-5.6	99	0.00
6		6	bromomethane	0.150	0.146	2.7	105	0.00
7		7	chloroethane	0.170	0.158	7.1	94	0.00
8		8	tri-Cl-F-methane	0.374	0.393	-5.1	96	-0.01
9		91	Acetonitrile X10	0.032	0.039	-21.9#	108	0.04
10		9	acrolein X10	0.024	0.025	-4.2	100	0.00
11		11	acetone X10	0.025	0.043	-72.0#	184	0.02
12		12	ethyl ether X5	0.127	0.126	0.8	91	-0.01
13	M, C	13	11-dichloroethene	0.306	0.319	-4.2	96	-0.01
14		14	Iodomethane	0.166	0.190	-14.5	83	-0.01
15		15	F-113	0.223	0.238	-6.7	96	-0.01
16		16	acrylonitrile X10	0.033	0.036	-9.1	113	0.00
17		17	carbon disulfide	0.883	0.890	-0.8	95	0.00
18		94	Isopropyl Alcoholx10	0.003	0.001	66.7#	91	0.08
19		18	methylene chloride	0.260	0.221	15.0	95	-0.01
20		19	t-12-di-Cl-ethene	0.255	0.261	-2.4	99	-0.01
21		20	t-Bu-Me-ether	0.464	0.485	-4.5	99	-0.01
22		95	Tert butyl alcoholx10	0.004	0.006	-50.0#	167	0.07
23		94	allyl chloride	0.317	0.391	-23.3#	108	0.00
24	p	21	11-dichloroethane	0.424	0.426	-0.5	98	-0.01
25		97	propionitrile	0.012	0.013	-8.3	131	0.01
26		22	c-12-di-Cl-ethene	0.254	0.256	-0.8	97	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\03G1873\G1873Q01.D Vial: 3
Acq On : 31 Mar 2003 11:23 am Operator: zou
Sample : f=1 Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\826WA010.M (RTE Integrator)
Title : **Applied P &Ch Lab** EPA 8260
Last Update : Mon Mar 31 17:23:34 2003
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27		23 22-Dichloropropane	0.308	0.366	-18.8	110	0.00
28		24 Br-Cl-methane	0.100	0.101	-1.0	97	0.00
29	C	25 chloroform	0.427	0.424	0.7	96	0.00
30		26 tetrahydrofuranX5	0.027	0.030	-11.1	121	0.00
31		98 Diisopropyl ether	0.688	0.710	-3.2	103	0.00
32	S	27 Di-Br-F-Me (surr)	0.230	0.220	4.3	94	0.00
33		99 ETBE	0.529	0.566	-7.0	102	0.00
34	S	29 1,2-Di-Cl-Et-d4 (S1)	0.214	0.203	5.1	93	0.00
35		30 12-dichloroethane	0.079	0.075	5.1	91	0.00
36		32 vinyl acetate X5	0.309	0.341	-10.4	111	0.00
37		92 Nitro Methane(x10)	0.037	0.039	-5.4	105	0.12
38		33 2-butanoneMEK X10	0.032	0.054	-68.8#	184	0.00
39		93 Ethyl Acetate x2	0.130	0.113	13.1	104	0.00
40		34 111-trichloroethane	0.382	0.400	-4.7	100	0.00
41		35 11-Di-Cl-propene	0.328	0.355	-8.2	101	0.00
42	M	36 benzene	1.006	1.020	-1.4	93	0.00
43		37 CCl4	0.323	0.355	-9.9	106	0.00
44		100 Isobutyl alcoholx10	0.002	0.003	-50.0#	107	0.06
45		38 thiophene	0.509	0.519	-2.0	93	0.00
46	C	39 12-di-Cl-propane	0.216	0.216	0.0	92	0.00
47	M	40 trichloroethene	0.275	0.282	-2.5	96	0.00
48		41 dibromomethane	0.104	0.105	-1.0	94	0.00
49		101 TAME	0.474	0.504	-6.3	95	0.00
50		42 Br-di-Cl-methane	0.297	0.296	0.3	93	0.00
51		43 Me-methacrylate	0.101	0.108	-6.9	98	0.00
52		44 2-ClEt-Vi-ether10	0.023	0.024	-4.3	95	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\03G1873\G1873Q01.D Vial: 3
Acq On : 31 Mar 2003 11:23 am Operator: zou
Sample : f=1 Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\826WA010.M (RTE Integrator)
Title : **Applied P &Ch Lab** EPA 8260
Last Update : Mon Mar 31 17:23:34 2003
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

			Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
53		45	c-13-di-Cl-propene	0.319	0.340	-6.6	96	0.00
54		46	t-1,3-dichloropropene	0.246	0.275	-11.8	100	0.00
55	I	47	Chlorobezene-d5	1.000	1.000	0.0	95	0.00
56		48	112-tri-Cl-Et	0.208	0.202	2.9	92	0.00
57		49	13-di-Cl-propane	0.368	0.365	0.8	93	0.00
58		50	Et methacrylate	0.291	0.326	-12.0	102	0.00
59		51	di-Br-Cl-methane	0.256	0.258	-0.8	96	0.00
60	P	52	bromoform	0.136	0.140	-2.9	99	0.00
61		53	1,4-dichlorobutane-2	0.333	0.338	-1.5	96	0.00
62		54	MIBK	0.141	0.154	-9.2	111	0.00
63	s	55	toluene-d8	1.273	1.293	-1.6	93	0.00
64	M,C	56	toluene	1.497	1.531	-2.3	93	0.00
65		57	2-hexanone X5	0.094	0.118	-25.5#	120	0.00
66		58	12-dibromoethane	0.195	0.197	-1.0	95	0.00
67		59	tetra-Cl-ethene	0.385	0.398	-3.4	96	0.00
68	M,P	60	chlorobenzene	0.964	0.949	1.6	92	0.00
69		61	1112-tetra-Cl-Et	0.308	0.316	-2.6	93	0.00
70	I	62	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
71		63	1-chlorohexane	0.402	0.434	-8.0	98	0.00
72	C	64	Et-Bz	3.520	3.629	-3.1	94	0.00
73		65	m/p-Xylenes X2	2.702	2.810	-4.0	95	0.00
74		66	styrene	2.064	2.136	-3.5	93	0.00
75		67	o-xylene	2.770	2.869	-3.6	94	0.00
76	p	68	1122-Tetra-Cl-Et	0.486	0.480	1.2	96	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\03G1873\G1873Q01.D Vial: 3
Acq On : 31 Mar 2003 11:23 am Operator: zou
Sample : f=1 Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\826WA010.M (RTE Integrator)
Title : **Applied P &Ch Lab** EPA 8260
Last Update : Mon Mar 31 17:23:34 2003
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

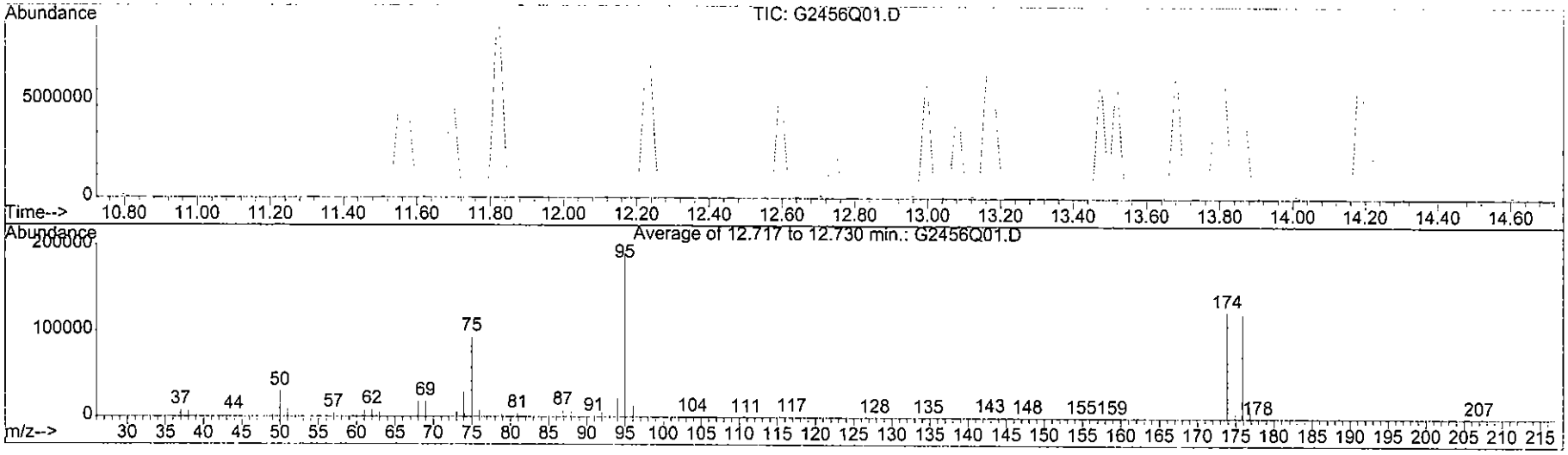
			Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77		69	123-tri-Cl-Pr	0.141	0.140	0.7	98	0.00
78	S	70	4-Br-1-F-Bz (S3)	0.761	0.765	-0.5	95	0.00
79		71	isopropylbenzene	3.425	3.663	-6.9	96	0.00
80		72	bromobenzene	0.763	0.767	-0.5	94	0.00
81		92	t-1,4-dichloro-2-butene	0.071	0.089	-25.4#	114	0.00
82		73	n-propylbenzene	1.009	1.061	-5.2	96	0.00
83		74	2-Cl-Toluene	0.852	0.868	-1.9	95	0.00
84		75	4-Cl-Toluene	0.874	0.878	-0.5	95	0.00
85		76	135-tri-Me-Benzene	2.943	3.107	-5.6	96	0.00
86		77	4-iso-Pr-toluene	3.201	3.443	-7.6	100	0.00
87		78	124-tri-Me-Benzene	3.020	3.120	-3.3	95	0.00
88		79	tert-butylbenzene	2.640	2.834	-7.3	97	0.00
89		80	13-DCB	1.634	1.638	-0.2	96	0.00
90		81	sec-butylbenzene	3.881	4.229	-9.0	98	0.00
91		82	14-DCB	1.640	1.612	1.7	97	0.00
92		83	Cl-benzyl	0.120	0.178	-48.3#	139	0.00
93		84	12-DCB	1.409	1.411	-0.1	99	0.00
94		85	n-butylbenzene	0.835	0.928	-11.1	105	0.00
95		86	12-diBr-2-Cl-Pra	0.080	0.090	-12.5	110	0.00
96		87	124-tri-Cl-Bz	1.017	1.073	-5.5	95	0.00
97		88	naphthalene	1.490	1.604	-7.7	93	0.00
98		89	hx-Cl-butadiene	0.607	0.642	-5.8	100	0.00
99		90	123-Tri-Cl-Bz	0.845	0.880	-4.1	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

BFB

Data File : C:\MSDCHEM\1\DATA\03G2456\G2456Q01.D
Acq On : 13 May 2003 1:15 pm
Sample : f=1
Misc :
MS Integration Params: Lscint.p
Method : C:\MSDCHEM\1\METHODS\826WA010.M (RTE Integrator)
Title : **Applied P &Ch Lab** EPA 8260

Vial: 3
Operator: zou
Inst : GCMS-A
Multiplr: 1.00



Spectrum Information: Average of 12.717 to 12.730 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.6	29790	PASS
75	95	30	60	48.9	93562	PASS
95	95	100	100	100.0	191189	PASS
96	95	5	9	7.3	13954	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.8	123936	PASS
175	174	5	9	7.8	9688	PASS
176	174	95	101	97.7	121088	PASS
177	176	5	9	7.3	8887	PASS

G2456Q01.D 826WA010.M Wed May 14 11:20:49 2003

FORM-5A

Applied P & Ch Laboratory

Volatile Organic Instrument Performance Check for Method 524.2

Bromofluorobenzene (BFB), Part II

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	033015
Project ID:	JPL	BFB Inj. Date:	05/13/03	Batch No:	03G2456
		BFB Inj. Time:	13:15	Sequence No:	03G2456
Project No:	04-4428.10	Instrument ID:	A	GC Column:	HP-VOC
Data File Name:	G2456Q01	Heated Purge: (Y/N)	N	Column ID:	0.20 mm

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

#	Client Sample No	Lab Sample ID	Data File Name	Date Analyzed	Time Analyzed
1	03G2456-CCV-01	03G2456-CCV-01	G2456Q01	05/13/03	13:15
2	03G2456-LCS-01	03G2456-LCS-01	G2456L01	05/13/03	13:41
3	MW-23-5MS	03-2987-6MS	G2456M01	05/13/03	14:08
4	MW-23-5MSD	03-2987-6MSD	G2456N01	05/13/03	14:35
5	03G2456-MB-01	03G2456-MB-01	G2456K01	05/13/03	15:55
6	DUPE-5-2Q03	03-3015-1	3015-01	05/13/03	19:59
7	EB-9-5/1/03	03-3015-2	3015-02	05/13/03	20:26
8	MW-3-1	03-3015-3	3015-03	05/13/03	20:53
9	MW-3-2	03-3015-4	3015-04	05/13/03	21:20
10	MW-3-3	03-3015-5	3015-05	05/13/03	21:47
11	MW-3-4	03-3015-6	3015-06	05/13/03	22:14
12	MW-3-5	03-3015-7	3015-07	05/13/03	22:41
13	TB-9-5/1/03	03-3015-8	3015-08	05/13/03	23:08
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G2456\G2456Q01.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : May 13 13:15 2003
Method Update: Thu Apr 10 14:53 2003
Quant. Time : May 14 11:18 2003
Print Time : Wed May 14 11:18 2003
Miscleneous :

Sample : f=1
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5411

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
Internal Standards										Dev(Min)		
1	1	Fluorobenzene	7.64	7.63	0.002	96	70	1646.457	10.00		0.01	
47	47	Chlorobezene-d5	11.54	11.54	0.000	117	82	1198.131	10.00		0.00	
62	62	1,4-Dichlorobenze	13.84	13.84	0.000	152	150	628.384	10.00		0.00	
System Monitoring Compounds (Surrogate)										%Recovery		
27	27	Di-Br-F-Me (surr)	6.60	6.58	0.001	111	113	711.767	18.78	18.8	93.91%	
29	29	1,2-Di-Cl-Et-d4 (	7.10	7.09	0.000	65	102	616.351	17.53	17.5	87.65%	
55	55	toluene-d8	9.91	9.90	0.000	98	100	2970.011	19.47	19.5	97.33%	
70	70	4-Br-1-F-Bz (S3)	12.74	12.74	0.000	174	95	882.502	18.45	18.5	92.27%	
Target Compounds										Qvalue		
<<< I1 : ISTD ID = 1 >>>												
3	3	di-Cl-di-F-methan	1.88	1.86	0.002	85	87	726.202	17.75	17.7	99	
4	4	Chloromethane	2.10	2.08	0.003	50	52	643.403	16.62	16.6	100	
2	2	F114	2.03	2.00	0.003	85	135	362.968	17.85	17.8	59	m 05/14/03
5	5	vinyl chloride	2.22	2.20	0.002	62	64	737.069	18.00	18.0	100	
6	6	bromomethane	2.60	2.58	0.003	94	96	387.834	15.73	15.7	100	
7	7	chloroethane	2.72	2.70	0.002	64	66	456.239	17.52	17.5	100	
8	8	tri-Cl-F-methane	3.03	3.01	0.002	101	103	1137.788	18.48	18.5	100	
91	91	Acetonitrile X10	4.07	4.00	0.008	41	40	1294.272	247.62	247.6	36	#?
9	9	acrolein X10	3.51	3.48	0.003	56	55	643.826	165.26	165.3	0	m
11	11	acetone X10	3.70	3.67	0.004	43	58	1022.772	288.92	288.9	0	m 05/14/03
12	12	ethyl ether X5	3.37	3.35	0.002	59	74	1897.786	90.56	90.6	99	
13	13	11-dichloroethene	3.63	3.62	0.002	61	96	896.873	17.82	17.8	98	?
14	14	Iodomethane	3.80	3.79	0.002	142	127	792.462	20.94	20.9	93	
15	15	F-113	3.65	3.63	0.002	101	151	714.265	19.44	19.4	0	m 05/14/03
16	16	acrylonitrile X10	4.52	4.49	0.003	53	52	1133.945	208.87	208.9	99	
17	17	carbon disulfide	3.90	3.88	0.002	76	78	2314.877	15.92	15.9	100	?
94	94	Isopropyl Alcohol	3.92	3.90	0.002	45	43	29.727	165.06	165.1	89	m 05/14/03
18	18	methylene chlorid	4.22	4.20	0.002	84	49	753.632	20.30	20.3	96	
19	19	t-12-di-Cl-ethene	4.57	4.56	0.002	96	61	795.724	18.97	19.0	94	?

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G2456\G2456Q01.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : May 13 13:15 2003
Method Update: Thu Apr 10 14:53 2003
Quant. Time : May 14 11:18 2003
Print Time : Wed May 14 11:18 2003
Miscleneous :

Sample : f=1
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5412

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
20	20	t-Bu-Me-ether	4.59	4.57	0.002	73	57	1523.160	19.93	19.9	99	?
95	95	Tert butyl alcoho	4.46	4.40	0.007	59	57	256.192	394.66	394.7	97	m
94	94	allyl chloride	4.07	4.05	0.002	41	76	1294.272	24.76	24.8	93	?
21	21	11-dichloroethane	5.11	5.10	0.002	63	83	1291.524	18.52	18.5	100	
97	97	propionitrile	6.01	5.98	0.004	54	51	41.944	21.32	21.3	86	#?
22	22	c-12-di-Cl-ethene	5.91	5.90	0.002	96	61	819.293	19.61	19.6	99	?
23	23	22-Dichloropropan	5.92	5.90	0.002	77	97	1117.461	22.03	22.0	98	?
24	24	Br-Cl-methane	6.24	6.23	0.002	128	130	325.556	19.70	19.7	97	
25	25	chloroform	6.37	6.35	0.003	83	85	1325.038	18.85	18.9	98	
26	26	tetrahydrofuranX5	6.34	6.32	0.002	42	72	446.372	98.97	99.0	92	
98	98	Diisopropyl ether	5.24	5.22	0.002	45	87	2148.005	18.95	19.0	97	
99	99	ETBE	5.73	5.72	0.002	59	87	1742.296	20.01	20.0	98	
30	30	12-dichloroethane	7.22	7.21	0.002	64	62	223.895	17.32	17.3	99	?
32	32	vinyl acetate X5	5.19	5.17	0.002	43	86	4882.913	95.92	95.9	98	
92	92	Nitro Methane(x10	5.91	5.78	0.018	61	46	1043.467	172.91	172.9	89	m
33	33	2-butanoneMEK X10	5.93	5.92	0.002	43	72	1445.478	277.96	278.0	95	?
93	93	Ethyl Acetate x2	6.04	6.02	0.002	43	61	643.184	29.94	29.9	98	?
34	34	111-trichloroetha	6.65	6.63	0.002	97	99	1257.987	19.99	20.0	99	
35	35	11-Di-Cl-propene	6.90	6.89	0.002	75	110	1061.234	19.64	19.6	98	?
36	36	benzene	7.21	7.19	0.002	78	52	3190.045	19.26	19.3	98	?
37	37	CCl4	6.91	6.90	0.002	117	119	1131.176	21.30	21.3	98	?
100	100	Isobutyl alcohol	7.15	7.11	0.005	43	42	114.213	375.57	375.6	70	#
38	38	thiophene	7.53	7.52	0.002	84	58	1637.488	19.55	19.5	97	
39	39	12-di-Cl-propane	8.56	8.55	0.000	63	76	672.824	18.94	18.9	97	
40	40	trichloroethene	8.24	8.23	0.002	130	132	897.033	19.84	19.8	100	
41	41	dibromomethane	8.73	8.72	0.000	174	172	344.537	20.07	20.1	97	
101	101	TAME	7.41	7.40	0.002	73	43	1574.036	20.19	20.2	95	
42	42	Br-di-Cl-methane	8.96	8.95	0.000	83	85	951.451	19.44	19.4	99	
43	43	Me-methacrylate	8.76	8.75	0.002	69	100	354.683	21.29	21.3	96	
44	44	2-ClEt-Vi-ether10	9.38	9.37	0.002	63	43	118.721	46.95	47.0	97	
45	45	c-13-di-Cl-propen	9.56	9.55	0.000	75	110	1079.280	20.56	20.6	97	
46	46	t-1,3-dichloropro	10.25	10.24	0.000	75	110	871.943	19.32	19.3	97	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G2456\G2456Q01.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : May 13 13:15 2003
Method Update: Thu Apr 10 14:53 2003
Quant. Time : May 14 11:18 2003
Print Time : Wed May 14 11:18 2003
Miscleneous :

Sample : f=1
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5413

ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
<<< I2 : ISTD ID = 47 >>>												
48	48	112-tri-Cl-Et	10.46	10.45	0.000	97	83	493.987	19.81	19.8	97	
49	49	13-di-Cl-propane	10.65	10.64	0.000	76	78	856.503	19.42	19.4	96	?
50	50	Et methacrylate	10.38	10.37	0.000	69	99	751.839	19.23	19.2	99	
51	51	di-Br-Cl-methane	10.91	10.90	0.000	129	127	636.409	20.78	20.8	100	
52	52	bromoform	12.42	12.42	0.000	173	174	347.919	21.29	21.3	100	
53	53	1,4-dichlorobutan	12.68	12.67	0.000	55	41	745.202	18.70	18.7	97	
54	54	MIBK	9.77	9.76	0.000	43	58	340.676	20.12	20.1	96	
56	56	toluene	9.99	9.98	0.000	91	92	3506.528	19.55	19.6	100	
57	57	2-hexanone X5	10.76	10.75	0.000	43	58	1243.497	110.66	110.7	97	
58	58	12-dibromoethane	11.03	11.03	0.000	107	109	472.189	20.21	20.2	99	
59	59	tetra-Cl-ethene	10.64	10.64	0.000	166	168	926.294	20.08	20.1	99	?
60	60	chlorobenzene	11.58	11.57	0.000	112	77	2243.020	19.42	19.4	99	?
61	61	1112-tetra-Cl-Et	11.66	11.66	0.000	131	133	765.753	20.74	20.7	98	
<<< I3 : ISTD ID = 62 >>>												
63	63	1-chlorohexane	11.56	11.56	0.000	93	55	473.929	18.74	18.7	86	#?
64	64	Et-Bz	11.70	11.70	0.000	91	106	4006.756	18.11	18.1	99	
65	65	m/p-Xylenes X2	11.82	11.82	0.000	91	106	6102.368	35.95	35.9	97	
66	66	styrene	12.24	12.24	0.000	104	78	2428.805	18.73	18.7	99	?
67	67	o-xylene	12.22	12.22	0.000	91	106	3180.795	18.28	18.3	100	?
68	68	1122-Tetra-Cl-Et	12.87	12.87	0.000	83	85	542.201	17.76	17.8	100	
69	69	123-tri-Cl-Pr	12.92	12.91	0.000	110	97	159.579	17.99	18.0	99	?
71	71	isopropylbenzene	12.60	12.60	0.000	105	120	4079.382	18.96	19.0	100	
72	72	bromobenzene	12.89	12.89	0.000	156	158	887.249	18.50	18.5	100	?
92	92	t-1,4-dichloro-2-	12.92	12.92	0.000	89	53	87.993	16.60	16.6	79	#?
73	73	n-propylbenzene	13.00	13.00	0.000	120	78	1193.315	18.83	18.8	97	
74	74	2-Cl-Toluene	13.08	13.08	0.000	126	128	992.418	18.53	18.5	100	
75	75	4-Cl-Toluene	13.19	13.18	0.000	126	128	996.343	18.15	18.1	100	?
76	76	135-tri-Me-Benzen	13.16	13.16	0.000	105	120	3440.427	18.61	18.6	98	?
77	77	4-iso-Pr-toluene	13.81	13.81	0.000	119	134	3802.809	18.91	18.9	100	?
78	78	124-tri-Me-Benzen	13.52	13.51	0.000	105	120	3476.640	18.32	18.3	98	
79	79	tert-butylbenzene	13.47	13.47	0.000	119	91	3151.803	19.00	19.0	97	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Quantitation Report: **Applied P &Ch Lab** EPA 8260

Data Filename: C:\MSDCHEM\1\DATA\03G2456\G2456Q01.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : May 13 13:15 2003
Method Update: Thu Apr 10 14:53 2003
Quant. Time : May 14 11:18 2003
Print Time : Wed May 14 11:18 2003
Miscleneous :

Sample : f=1
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5414

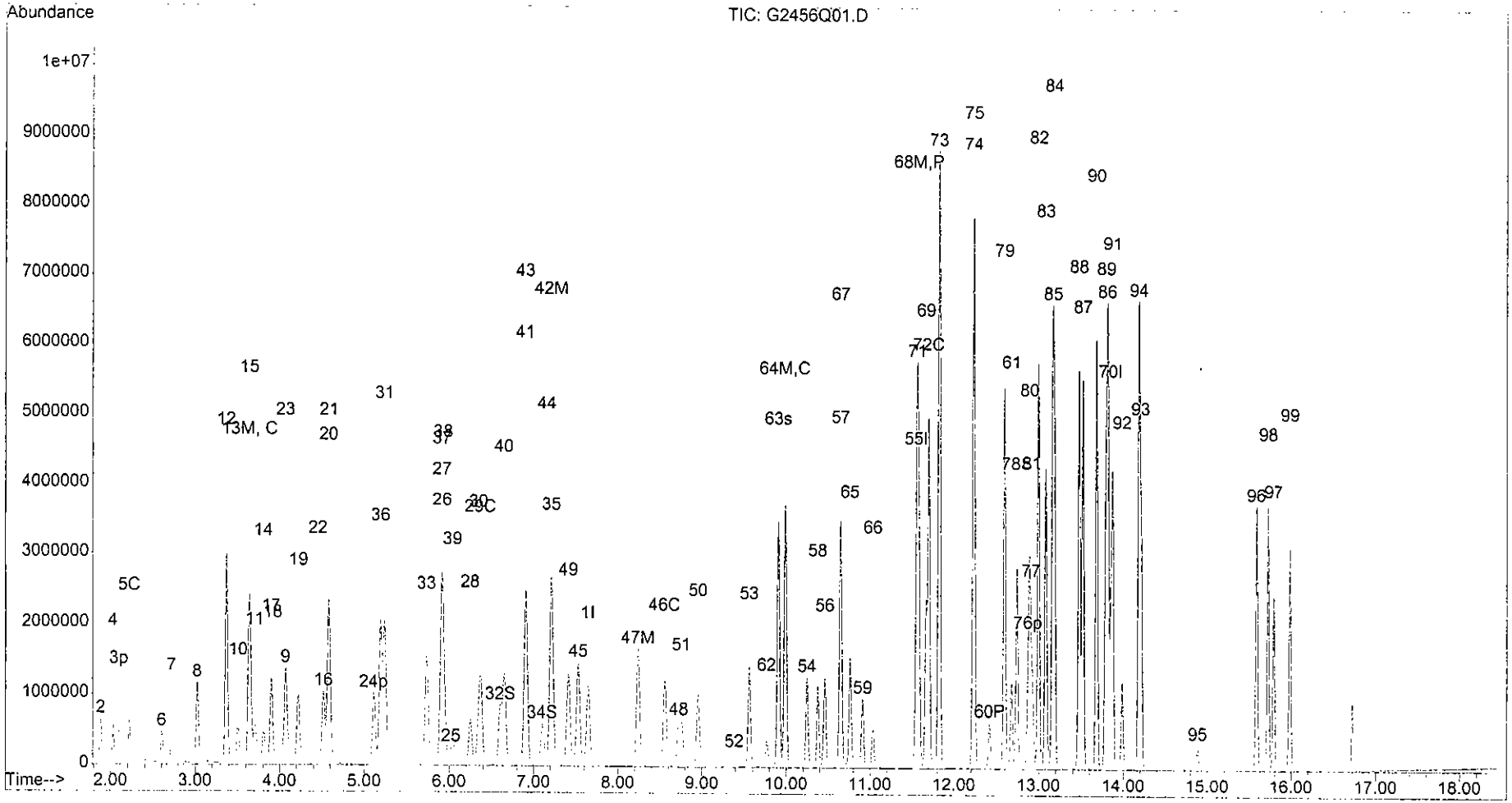
ID		Component Name	R.T.	RT0	DRRT	QIon	Q1	RF/1000	C0,ppb	C,ppb	Quality	Note
80	80	13-DCB	13.79	13.79	0.000	146	148	1882.277	18.33	18.3	100	?
81	81	sec-butylbenzene	13.68	13.68	0.000	105	134	4672.968	19.16	19.2	100	
82	82	14-DCB	13.87	13.87	0.000	146	148	1837.296	17.83	17.8	100	
83	83	Cl-benzyl	13.98	13.98	0.000	126	91	207.100	21.70	21.7	97	
84	84	12-DCB	14.21	14.21	0.000	146	148	1611.555	18.20	18.2	99	?
85	85	n-butylbenzene	14.18	14.18	0.000	134	91	1048.008	19.96	20.0	98	?
86	86	12-diBr-2-Cl-Pra	14.88	14.88	0.000	157	155	105.620	18.56	18.6	96	
87	87	124-tri-Cl-Bz	15.59	15.59	0.000	180	182	1248.512	19.54	19.5	99	
88	88	naphthalene	15.79	15.79	0.000	128	129	2012.873	21.50	21.5	100	
89	89	hx-Cl-butadiene	15.72	15.72	0.000	225	258	706.919	18.54	18.5	100	
90	90	123-Tri-Cl-Bz	15.98	15.98	0.000	180	182	1026.015	19.31	19.3	100	

= qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

Data Filename: C:\MSDCHEM\1\DATA\03G2456\G2456Q01.D
Method : C:\MSDCHEM\1\METHODS\826WA010.M
Acq. Time : May 13 13:15 2003
Method Update: Thu Apr 10 14:53 2003
Quant. Time : May 14 11:18 2003
Print Time : Wed May 14 11:18 2003
Miscleneous :

Sample : f=1
Inst. : GCMS-A
RF via : Multiple Level Calibration
Operator: zou
Multiplr: 1.000000

5415



Continuing Calibration Concentration Summary

Data File G2456Q01
Method File 826WA010

Compound Name	Amount	Actual	Units	%Dev	Target Response
1 Fluorobenzene	10	10.00	ppb	0.00	1646457
3 di-Cl-di-F-methane	20	17.75	ppb	11.27	726202
4 Chloromethane	20	16.62	ppb	16.90	643403
2 F114	20	17.85	ppb	10.76	362968
5 vinyl chloride	20	18.00	ppb	10.01	737069
6 bromomethane	20	15.73	ppb	21.33	387834
7 chloroethane	20	17.52	ppb	12.39	456239
8 tri-Cl-F-methane	20	18.48	ppb	7.59	1137788
91 Acetonitrile X10	200	247.62	ppb	23.81	1294272
9 acrolein X10	200	165.26	ppb	17.37	643826
11 acetone X10	200	288.92	ppb	44.46	1022772
12 ethyl ether X5	100	90.56	ppb	9.44	1897786
13 11-dichloroethene	20	17.82	ppb	10.91	896873
14 Iodomethane	20	20.94	ppb	4.68	792462
15 F-113	20	19.44	ppb	2.78	714265
16 acrylonitrile X10	200	208.87	ppb	4.43	1133945
17 carbon disulfide	20	15.92	ppb	20.39	2314877
94 Isopropyl Alcoholx10	200	165.06	ppb	17.47	29727
18 methylene chloride	20	20.30	ppb	1.50	753632
19 t-12-di-Cl-ethene	20	18.97	ppb	5.15	795724
20 t-Bu-Me-ether	20	19.93	ppb	0.35	1523160
95 Tert butyl alcoholx10	200	394.66	ppb	97.33	256192
94 allyl chloride	20	24.76	ppb	23.81	1294272
21 11-dichloroethane	20	18.52	ppb	7.41	1291524
97 propionitrile	20	21.32	ppb	6.62	41944
22 c-12-di-Cl-ethene	20	19.61	ppb	1.96	819293
23 22-Dichloropropane	20	22.03	ppb	10.17	1117461
24 Br-Cl-methane	20	19.70	ppb	1.50	325556
25 chloroform	20	18.85	ppb	5.75	1325038
26 tetrahydrofuranX5	100	98.97	ppb	1.03	446372
98 Diisopropyl ether	20	18.95	ppb	5.24	2148005
27 Di-Br-F-Me (surr)	20	18.78	ppb	6.09	711767
99 ETBE	20	20.01	ppb	0.05	1742296
29 1,2-Di-Cl-Et-d4 (S1)	20	17.53	ppb	12.35	616351
30 12-dichloroethane	20	17.32	ppb	13.40	223895
32 vinyl acetate X5	100	95.92	ppb	4.08	4882913
92 Nitro Methane(x10)	200	172.91	ppb	13.54	1043467
33 2-butanoneMEK X10	200	277.96	ppb	38.98	1445478
93 Ethyl Acetate x2	40	29.94	ppb	25.14	643184
34 111-trichloroethane	20	19.99	ppb	0.04	1257987
35 11-Di-Cl-propene	20	19.64	ppb	1.81	1061234
36 benzene	20	19.26	ppb	3.69	3190045
37 CCl4	20	21.30	ppb	6.52	1131176

Compound Name	Amount	Actual	Units	%Dev	Target Response
100 Isobutyl alcoholx10	200	375.57	ppb	87.79	114213
38 thiophene	20	19.55	ppb	2.27	1637488
39 12-di-Cl-propane	20	18.94	ppb	5.28	672824
40 trichloroethene	20	19.84	ppb	0.82	897033
41 dibromomethane	20	20.07	ppb	0.34	344537
101 TAME	20	20.19	ppb	0.94	1574036
42 Br-di-Cl-methane	20	19.44	ppb	2.78	951451
43 Me-methacrylate	20	21.29	ppb	6.46	354683
44 2-ClEt-Vi-ether10	200	46.95	ppb	76.52	118721
45 c-13-di-Cl-propene	20	20.56	ppb	2.82	1079280
46 t-1,3-dichloropropene	20	19.32	ppb	3.39	871943
47 Chlorobezene-d5	10	10.00	ppb	0.00	1198131
48 112-tri-Cl-Et	20	19.81	ppb	0.93	493987
49 13-di-Cl-propane	20	19.42	ppb	2.89	856503
50 Et methacrylate	20	19.23	ppb	3.83	751839

Compound Name	Amount	Actual	Units	%Dev	Target Response
51 di-Br-Cl-methane	20	20.78	ppb	3.89	636409
52 bromoform	20	21.29	ppb	6.43	347919
53 1,4-dichlorobutane-2	20	18.70	ppb	6.48	745202
54 MIBK	20	20.12	ppb	0.60	340676
55 toluene-d8	20	19.47	ppb	2.67	2970011
56 toluene	20	19.55	ppb	2.24	3506528
57 2-hexanone X5	100	110.66	ppb	10.66	1243497
58 12-dibromoethane	20	20.21	ppb	1.03	472189
59 tetra-Cl-ethene	20	20.08	ppb	0.39	926294
60 chlorobenzene	20	19.42	ppb	2.90	2243020
61 1112-tetra-Cl-Et	20	20.74	ppb	3.71	765753
62 1,4-Dichlorobenzene-d4	10	10.00	ppb	0.00	628384
63 1-chlorohexane	20	18.74	ppb	6.30	473929
64 Et-Bz	20	18.11	ppb	9.43	4006756
65 m/p-Xylenes X2	40	35.95	ppb	10.14	6102368
66 styrene	20	18.73	PPB	6.36	2428805
67 o-xylene	20	18.28	ppb	8.62	3180795
68 1122-Tetra-Cl-Et	20	17.76	ppb	11.20	542201
69 123-tri-Cl-Pr	20	17.99	ppb	10.04	159579
70 4-Br-1-F-Bz (S3)	20	18.45	ppb	7.73	882502
71 isopropylbenzene	20	18.96	ppb	5.22	4079382
72 bromobenzene	20	18.50	ppb	7.49	887249
92 t-1,4-dichloro-2-butene	20	16.60	ppb	17.00	87993
73 n-propylbenzene	20	18.83	ppb	5.86	1193315
74 2-Cl-Toluene	20	18.53	ppb	7.33	992418
75 4-Cl-Toluene	20	18.15	ppb	9.26	996343
76 135-tri-Me-Benzene	20	18.61	ppb	6.97	3440427
77 4-iso-Pr-toluene	20	18.91	ppb	5.46	3802809
78 124-tri-Me-Benzene	20	18.32	ppb	8.39	3476640
79 tert-butylbenzene	20	19.00	ppb	5.01	3151803
80 13-DCB	20	18.33	ppb	8.36	1882277
81 sec-butylbenzene	20	19.16	ppb	4.20	4672968

82 14-DCB	20	17.83	ppb	10.87	1837296
83 Cl-benzyl	20	21.70	ppb	8.52	207100
84 12-DCB	20	18.20	ppb	9.02	1611555
85 n-butylbenzene	20	19.96	ppb	0.18	1048008
86 12-diBr-2-Cl-Pra	20	18.56	ppb	7.22	105620
87 124-tri-Cl-Bz	20	19.54	ppb	2.30	1248512
88 naphthalene	20	21.50	ppb	7.48	2012873
89 hx-Cl-butadiene	20	18.54	ppb	7.29	706919
90 123-Tri-Cl-Bz	20	19.31	ppb	3.44	1026015

Average D % 9.3240463

Evaluate Continuing Calibration Report

5419

Data File : C:\MSDCHEM\1\DATA\03G2456\G2456Q01.D Vial: 3
Acq On : 13 May 2003 1:15 pm Operator: zou
Sample : f=1 Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\826WA010.M (RTE Integrator)
Title : **Applied P &Ch Lab** EPA 8260
Last Update : Thu Apr 10 14:53:47 2003
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

			Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1	Fluorobenzene	1.000	1.000	0.0	116	0.01
2		3	di-Cl-di-F-methane	0.249	0.221	11.2	102	0.02
3	p	4	Chloromethane	0.256	0.195	23.8#	92	0.02
4		2	F114	0.124	0.110	11.3	95	0.03
5	C	5	vinyl chloride	0.249	0.224	10.0	102	0.02
6		6	bromomethane	0.150	0.118	21.3#	102	0.02
7		7	chloroethane	0.170	0.139	18.2	99	0.02
8		8	tri-Cl-F-methane	0.374	0.346	7.5	101	0.02
9		91	Acetonitrile X10	0.032	0.039	-21.9#	131	0.06
10		9	acrolein X10	0.024	0.020	16.7	95	0.02
11		11	acetone X10	0.025	0.031	-24.0#	160	0.03
12		12	ethyl ether X5	0.127	0.115	9.4	100	0.02
13	M, C	13	11-dichloroethene	0.306	0.272	11.1	98	0.02
14		14	Iodomethane	0.166	0.241	-45.2#	126	0.01
15		15	F-113	0.223	0.217	2.7	105	0.02
16		16	acrylonitrile X10	0.033	0.034	-3.0	131	0.02
17		17	carbon disulfide	0.883	0.703	20.4#	90	0.02
18		94	Isopropyl Alcoholx10	0.003	0.001	66.7#	95	0.02
19		18	methylene chloride	0.260	0.229	11.9	118	0.02
20		19	t-12-di-Cl-ethene	0.255	0.242	5.1	110	0.01
21		20	t-Bu-Me-ether	0.464	0.463	0.2	114	0.02
22		95	Tert butyl alcoholx10	0.004	0.008	-100.0#	242#	0.06
23		94	allyl chloride	0.317	0.393	-24.0#	131	0.02
24	p	21	11-dichloroethane	0.424	0.392	7.5	109	0.01
25		97	propionitrile	0.012	0.013	-8.3	150	0.03
26		22	c-12-di-Cl-ethene	0.254	0.249	2.0	113	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

5420

Data File : C:\MSDCHEM\1\DATA\03G2456\G2456Q01.D Vial: 3
Acq On : 13 May 2003 1:15 pm Operator: zou
Sample : f=1 Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\826WA010.M (RTE Integrator)
Title : **Applied P &Ch Lab** EPA 8260
Last Update : Thu Apr 10 14:53:47 2003
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27		23 22-Dichloropropane	0.308	0.339	-10.1	122	0.02
28		24 Br-Cl-methane	0.100	0.099	1.0	114	0.01
29	C	25 chloroform	0.427	0.402	5.9	109	0.02
30		26 tetrahydrofuranX5	0.027	0.027	0.0	133	0.02
31		98 Diisopropyl ether	0.688	0.652	5.2	113	0.02
32	S	27 Di-Br-F-Me (surr)	0.230	0.216	6.1	111	0.02
33		99 ETBE	0.529	0.529	0.0	115	0.01
34	S	29 1,2-Di-Cl-Et-d4 (S1)	0.214	0.187	12.6	104	0.01
35		30 12-dichloroethane	0.079	0.068	13.9	99	0.01
36		32 vinyl acetate X5	0.309	0.297	3.9	116	0.02
37		92 Nitro Methane(x10)	0.037	0.032	13.5	102	0.13
38		33 2-butanoneMEK X10	0.032	0.044	-37.5#	180	0.02
39		93 Ethyl Acetate x2	0.130	0.098	24.6#	108	0.02
40		34 111-trichloroethane	0.382	0.382	0.0	115	0.02
41		35 11-Di-Cl-propene	0.328	0.322	1.8	111	0.01
42	M	36 benzene	1.006	0.969	3.7	107	0.01
43		37 CCl4	0.323	0.344	-6.5	123	0.01
44		100 Isobutyl alcoholx10	0.002	0.003	-50.0#	162	0.04
45		38 thiophene	0.509	0.497	2.4	107	0.01
46	C	39 12-di-Cl-propane	0.216	0.204	5.6	104	0.00
47	M	40 trichloroethene	0.275	0.272	1.1	111	0.01
48		41 dibromomethane	0.104	0.105	-1.0	113	0.00
49		101 TAME	0.474	0.478	-0.8	109	0.01
50		42 Br-di-Cl-methane	0.297	0.289	2.7	109	0.00
51		43 Me-methacrylate	0.101	0.108	-6.9	117	0.01
52		44 2-ClEt-Vi-ether10	0.023	0.004	82.6#	17#	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

5421

Data File : C:\MSDCHEM\1\DATA\03G2456\G2456Q01.D Vial: 3
Acq On : 13 May 2003 1:15 pm Operator: zou
Sample : f=1 Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\826WA010.M (RTE Integrator)
Title : **Applied P &Ch Lab** EPA 8260
Last Update : Thu Apr 10 14:53:47 2003
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

			Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
53		45	c-13-di-Cl-propene	0.319	0.328	-2.8	111	0.00
54		46	t-1,3-dichloropropene	0.246	0.265	-7.7	115	0.00
55	I	47	Chlorobezene-d5	1.000	1.000	0.0	115	0.00
56		48	112-tri-Cl-Et	0.208	0.206	1.0	114	0.00
57		49	13-di-Cl-propane	0.368	0.357	3.0	110	0.00
58		50	Et methacrylate	0.291	0.314	-7.9	118	0.00
59		51	di-Br-Cl-methane	0.256	0.266	-3.9	119	0.00
60	P	52	bromoform	0.136	0.145	-6.6	124	0.00
61		53	1,4-dichlorobutane-2	0.333	0.311	6.6	107	0.00
62		54	MIBK	0.141	0.142	-0.7	123	0.00
63	s	55	toluene-d8	1.273	1.239	2.7	108	0.00
64	M,C	56	toluene	1.497	1.463	2.3	107	0.00
65		57	2-hexanone X5	0.094	0.104	-10.6	127	0.00
66		58	12-dibromoethane	0.195	0.197	-1.0	114	0.00
67		59	tetra-Cl-ethene	0.385	0.387	-0.5	112	0.00
68	M,P	60	chlorobenzene	0.964	0.936	2.9	110	0.00
69		61	1112-tetra-Cl-Et	0.308	0.320	-3.9	114	0.00
70	I	62	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	127	0.00
71		63	1-chlorohexane	0.402	0.377	6.2	113	0.00
72	C	64	Et-Bz	3.520	3.188	9.4	110	0.00
73		65	m/p-Xylenes X2	2.702	2.428	10.1	108	0.00
74		66	styrene	2.064	1.933	6.3	112	0.00
75		67	o-xylene	2.770	2.531	8.6	110	0.00
76	p	68	1122-Tetra-Cl-Et	0.486	0.431	11.3	114	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

5422

Data File : C:\MSDCHEM\1\DATA\03G2456\G2456Q01.D Vial: 3
Acq On : 13 May 2003 1:15 pm Operator: zou
Sample : f=1 Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\826WA010.M (RTE Integrator)
Title : **Applied P &Ch Lab** EPA 8260
Last Update : Thu Apr 10 14:53:47 2003
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77		69 123-tri-Cl-Pr	0.141	0.127	9.9	118	0.00
78	S	70 4-Br-1-F-Bz (S3)	0.761	0.702	7.8	115	0.00
79		71 isopropylbenzene	3.425	3.246	5.2	113	0.00
80		72 bromobenzene	0.763	0.706	7.5	114	0.00
81		92 t-1,4-dichloro-2-butene	0.071	0.070	1.4	119	0.00
82		73 n-propylbenzene	1.009	0.950	5.8	114	0.00
83		74 2-Cl-Toluene	0.852	0.790	7.3	114	0.00
84		75 4-Cl-Toluene	0.874	0.793	9.3	113	0.00
85		76 135-tri-Me-Benzene	2.943	2.738	7.0	112	0.00
86		77 4-iso-Pr-toluene	3.201	3.026	5.5	116	0.00
87		78 124-tri-Me-Benzene	3.020	2.766	8.4	112	0.00
88		79 tert-butylbenzene	2.640	2.508	5.0	113	0.00
89		80 13-DCB	1.634	1.498	8.3	117	0.00
90		81 sec-butylbenzene	3.881	3.718	4.2	115	0.00
91		82 14-DCB	1.640	1.462	10.9	116	0.00
92		83 Cl-benzyl	0.120	0.165	-37.5#	170	0.00
93		84 12-DCB	1.409	1.282	9.0	119	0.00
94		85 n-butylbenzene	0.835	0.834	0.1	125	0.00
95		86 12-diBr-2-Cl-Pra	0.080	0.084	-5.0	136	0.00
96		87 124-tri-Cl-Bz	1.017	0.993	2.4	116	0.00
97		88 naphthalene	1.490	1.602	-7.5	123	0.00
98		89 hx-Cl-butadiene	0.607	0.562	7.4	116	0.00
99		90 123-Tri-Cl-Bz	0.845	0.816	3.4	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

FORM-8A

Applied P & Ch Laboratory

Internal Standard Area and RT Summary for Method 524.2

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	033015
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		CCV Data File:	G2456Q01	Instrument ID:	A

Batch No: 03G2456

#	Client Sample No	Lab Sample ID	Analysis Date & Time	IS-1 Area #	IS-1 RT #	IS-2 Area #	IS-2 RT #	IS-3 Area #	IS-3 RT #
	12 Hour CCV STD		05/13/03 13:15	1646457	7.64	1198131	11.54	628384	13.84
	CCV Upper Limit			3292914	8.14	2396262	12.04	1256768	14.34
	CCV Lower Limit			823228	7.14	599065	11.04	314192	13.34
1	03G2456-LCS-01	03G2456-LCS-01	05/13/03 13:41	1536499	7.64	1124739	11.54	592039	13.85
2	MW-23-5MS	03-2987-6MS	05/13/03 14:08	1674220	7.64	1209063	11.54	627928	13.84
3	MW-23-5MSD	03-2987-6MSD	05/13/03 14:35	1632156	7.64	1205698	11.54	637369	13.84
4	03G2456-MB-01	03G2456-MB-01	05/13/03 15:55	1477639	7.64	1123135	11.54	551400	13.85
5	DUPE-5-2Q03	03-3015-1	05/13/03 19:59	1386679	7.64	1073509	11.55	537220	13.84
6	EB-9-5/1/03	03-3015-2	05/13/03 20:26	1387975	7.64	1069429	11.55	532229	13.85
7	MW-3-1	03-3015-3	05/13/03 20:53	1390191	7.64	1066903	11.54	525857	13.85
8	MW-3-2	03-3015-4	05/13/03 21:20	1373949	7.64	1070160	11.55	533742	13.85
9	MW-3-3	03-3015-5	05/13/03 21:47	1384696	7.64	1074608	11.54	538940	13.85
10	MW-3-4	03-3015-6	05/13/03 22:14	1356572	7.65	1054109	11.55	523211	13.85
11	MW-3-5	03-3015-7	05/13/03 22:41	1350179	7.64	1057464	11.55	530985	13.85
12	TB-9-5/1/03	03-3015-8	05/13/03 23:08	1371302	7.64	1064889	11.55	534781	13.85
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS-1 = FLUOROBENZENE
IS-2 = CHLOROBENZENE-D5
IS-3 = 1,4-DICHLOROBENZENE-D4

Area Upper Limit = +100% of CCV internal standard area
Area Lower Limit = - 50% of CCV internal standard area
RT Upper Limit = +0.50 minutes of CCV internal standard RT
RT Lower Limit = - 0.50 minutes of CCV internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

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VOC Analysis General Logbook

Sequence # 0371873 Batch # 0371873 Matrix: W Date: 3-30-03 Analyst: Zou

#: IS/Surrogate: GC- 14507/14508 Methanol(mark-M): PEG (mark-PEG): Defoaming(mark-DF):

☐ Calib. + Ini. Batch ☑ Initial Batch; ☐ Middle Batch; ☐ Final Batch. ☐ Internal Study Datafile Path:

Op. #	Type	Sample ID	Method	$V/X=f_1$	$V_f/V_i=f_2$	$V_{spg}/V_{inj}=f_3$	F	A-#	Datafile	Note	pH
4969	SP	GT1873P01	826WA	2525=1	/ =	/ =	1		GT1873P01	3-30-03 2:29pm	
4970	Calib	10-0003A	010	/ =	/ =	/ =			10-0003A	GTC14991	
4971		10-0002		/ =	/ =	/ =			10-0002		
4972		10-0010		/ =	/ =	/ =			10-0010		
4973		10-0020		/ =	/ =	/ =			10-0020		
4974		10-0040		/ =	/ =	/ =			10-0040		
4975		10-0060		/ =	/ =	/ =			10-0060		
4976	CW	GT1873R01		/ =	/ =	/ =			GT1873R01	CW/ICW GTC14992	3-30-03 11:23AM
4977	LCS	L01		/ =	/ =	/ =			L01		
4978	MS	M01		/ =	/ =	/ =			M01	$2301-04	<2
4979	MSD	N01		/ =	/ =	/ =			N01	$2301-04	
4980	MS	M02		/ =	/ =	/ =			M02	$2303-03	
4981	MSD	N02		/ =	/ =	/ =			N02	$2303-03	
4982	MB	K01		/ =	/ =	/ =			K01		
4983	Sample	2469-01		/ =	/ =	/ =			2469-01	tb	<2
4984		2301-05		/ =	/ =	/ =			2301-05	tb	
4985		2303-04		/ =	/ =	/ =			2303-04	tb	
4986		2303-03		/ =	/ =	/ =			2303-03	ms	
4987		2301-04		/ =	/ =	/ =			2301-04	ms	
4988		01		/ =	/ =	/ =			01		
4989		02		/ =	/ =	/ =			02		
4990		03		/ =	/ =	/ =			03		
4991		2303-01		/ =	/ =	/ =			2303-01		
4992		02		/ =	/ =	/ =			02		
4993		2351-01		/ =	/ =	/ =			2351-01		
4994		2469-02		/ =	/ =	/ =			2469-02		
4995		03		/ =	/ =	/ =			03		
4996		04		/ =	/ =	/ =			04		
4997		2449-01		/ =	/ =	/ =			2449-01		
4998		02		/ =	/ =	/ =			02		
4999		2353-01A		/ =	/ =	/ =			2353-01A	23:15	
5000				/ =	/ =	/ =					

AL 4-2-03

Type	Op #	STD Lot #	$C_{std}(ng/\mu L)\times V_{std}(\mu L)/X(g\ or\ mL)=T$	Op #	STD Lot #	$C_{std}(ng/\mu L)\times V_{std}(\mu L)/X(g\ or\ mL)=T$
LCS/LCSD	4977	GC-	× /X= ppb		GC-	× /X= ppb
MS/MSD	4978/4979	GC- 1499/2	× 2.5 /X= 20 ppb		GC-	× /X= ppb

Footnote/Anomaly:

AL 4-2-03

FILE: [CUST.DOC.GC]VOC_LOG .TEX Root-File: VOC_LOG_ROOT.TEX I-Page-File:[CUST.DOC.GC]VOC_LOG1.TEX; pH for field water sample only. Supervisor Initial: 5424

APCL form 7-201, April 03, 1996; Ver 4.1 No pencil. Use blue pen for record. Use red pen for correction.

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VOC-150

VOC Analysis General Logbook

Sequence # 03G2456 Batch # 03G2456 Matrix: W Date: 05/13/03 Analyst: Zou

Lot #: IS/Surrogate: GC-1514/1515 Methanol(mark-*M*): _____ PEG (mark-*PEG*): _____ Defoaming(mark-*DF*): _____

☐ Calib. + Ini. Batch ☒ Initial Batch; ☐ Middle Batch; ☐ Final Batch. ☐ Internal Study Datafile Path: _____

Op. #	Type	Sample ID	Method	$V/X=f_1$	$V_f/V_i=f_2$	$V_{spg}/V_{inj}=f_3$	F	A-#	Datafile	Note	pH
5769	SP	G2456P01	8260WA	25/25 = 1	/ =	/ =	1		G2456P01	05/13/03	
5770	CCV	Q01		/ =	/ =	/ =			Q01	gc1514	1:15pm
5771	LCS	L01		/ =	/ =	/ =			L01		
5772	MS	M01		/ =	/ =	/ =			M01	52987-06	<2
5773	MSD	N01		/ =	/ =	/ =			N01	↓	↓
5774	MB	↓ K01		/ =	/ =	/ =			K01		
5775	sample	2987-01		/ =	/ =	/ =			2987-01	524.2	<2
5776		06		/ =	/ =	/ =			06		
5777		02		/ =	/ =	/ =			02		
5778		03		/ =	/ =	/ =			03		
5779		04		/ =	/ =	/ =			04		
5780		05		/ =	/ =	/ =			05		
5781		↓ 07		/ =	/ =	/ =			↓ 07		
5782		3015-01		/ =	/ =	/ =			3015-01		
5783		02		/ =	/ =	/ =			02		
5784		03		/ =	/ =	/ =			03		
5785		04		/ =	/ =	/ =			04		
5786		05		/ =	/ =	/ =			05		
5787		06		/ =	/ =	/ =			06		
5788		07		/ =	/ =	/ =			07		
5789		↓ 08		/ =	/ =	/ =			↓ 08	↓	
5790		3171-03		/ =	/ =	/ =			3171-03		
5791		04		/ =	/ =	/ =			04		
5792		09		/ =	/ =	/ =			09		
5793	↓	↓ 12	↓	/ =	/ =	/ =	↓		↓ 12		↓
5794				/ =	/ =	/ =					
5795				/ =	/ =	/ =					
5796				/ =	/ =	/ =					
5797				/ =	/ =	/ =					
5798				/ =	/ =	/ =					
5799				/ =	/ =	/ =					
5800				/ =	/ =	/ =					

05/15/03

Type	Op #	STD Lot #	$C_{std}(ng/\mu L)\times V_{std}(\mu L)/X(g \text{ or } mL)=T$	Op #	STD Lot #	$C_{std}(ng/\mu L)\times V_{std}(\mu L)/X(g \text{ or } mL)=T$
LCS/LCSD	5771	GC-	× /X= ppb		GC-	× /X= ppb
MS/MSD	5772/5773	GC-1512	200 × 2.5 /X= 20 ppb		GC-	× /X= ppb

Footnote/Anomaly:

5425