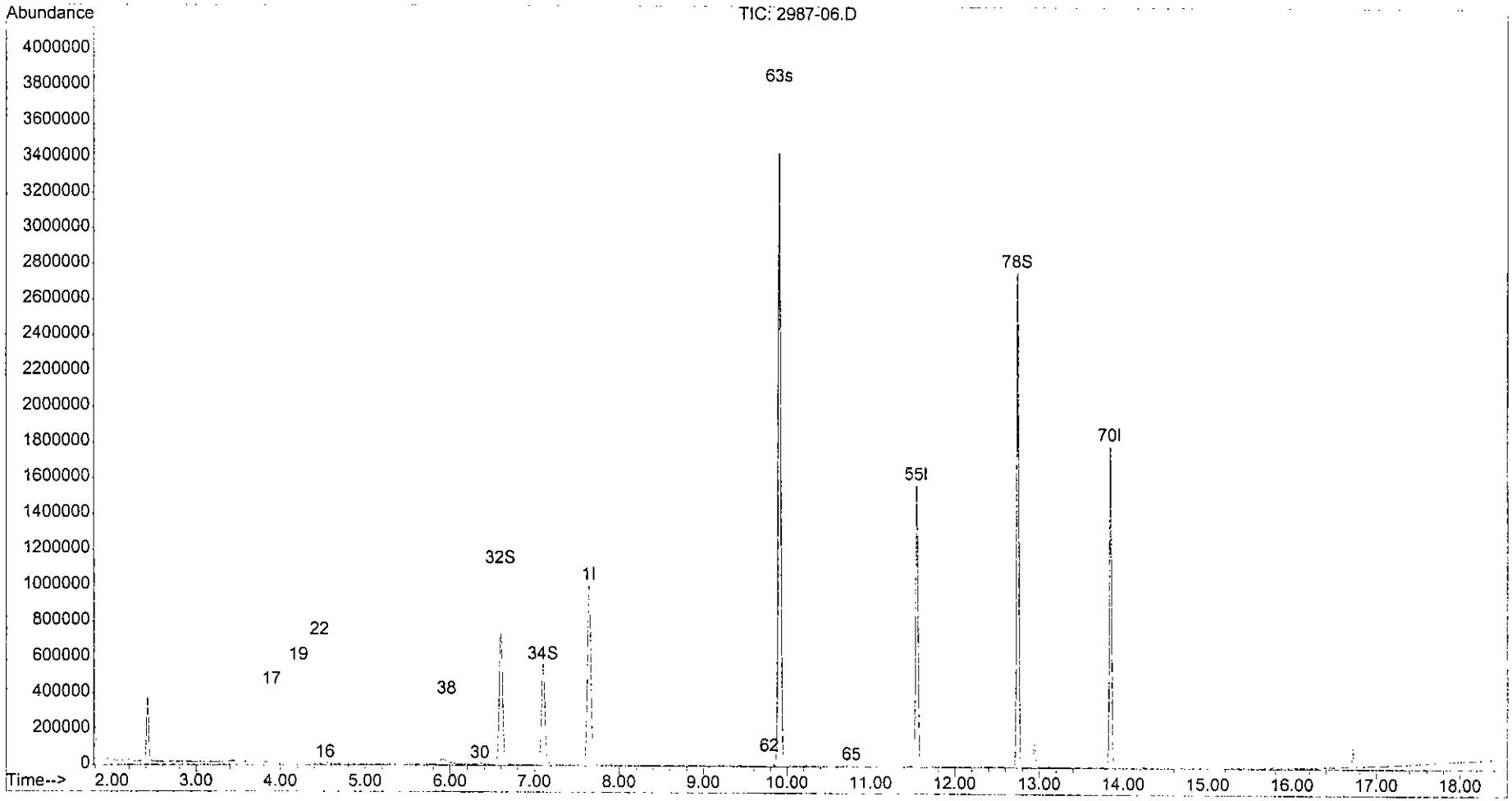
Quantitation Report: **Applied P &Ch Lab**  EPA 8260

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 |
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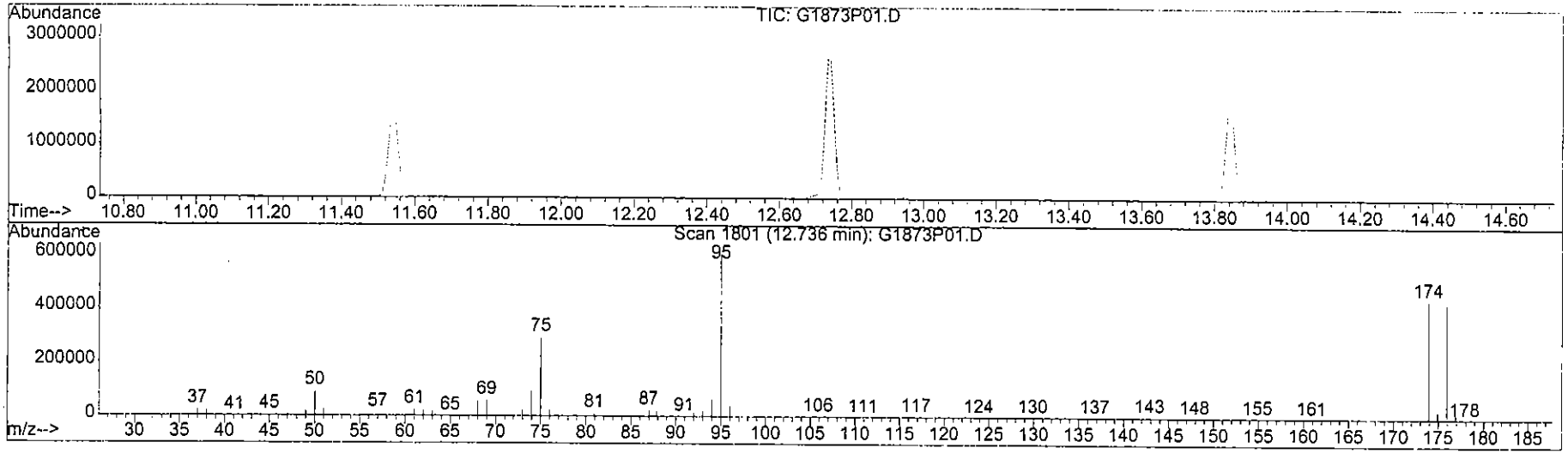
# BFB

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 | | | | | |
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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, C | 13 | 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

5368

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 1,2-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

5369

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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

5370

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | |

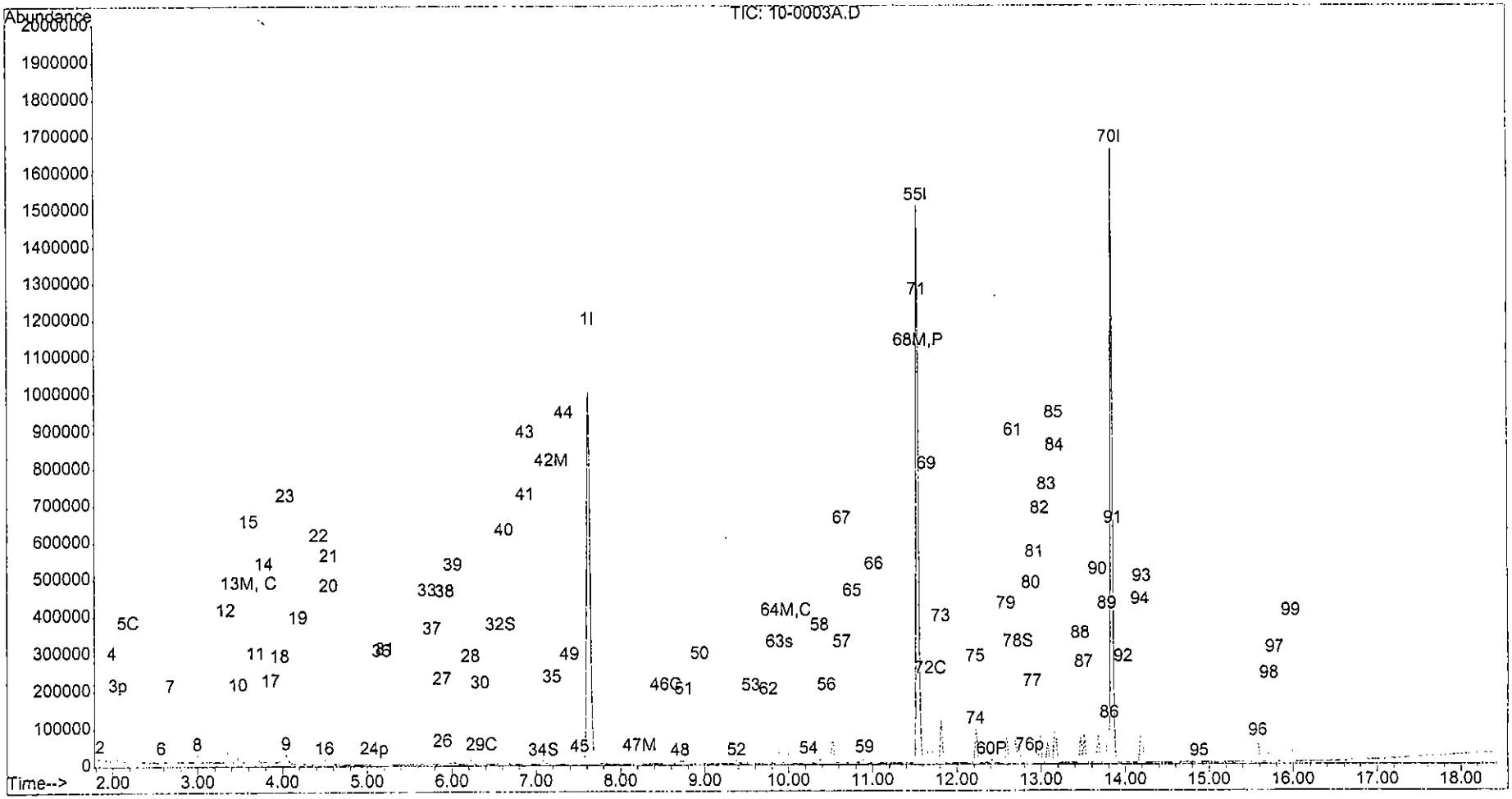
# = qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

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

5373

| 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

5375

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 | |

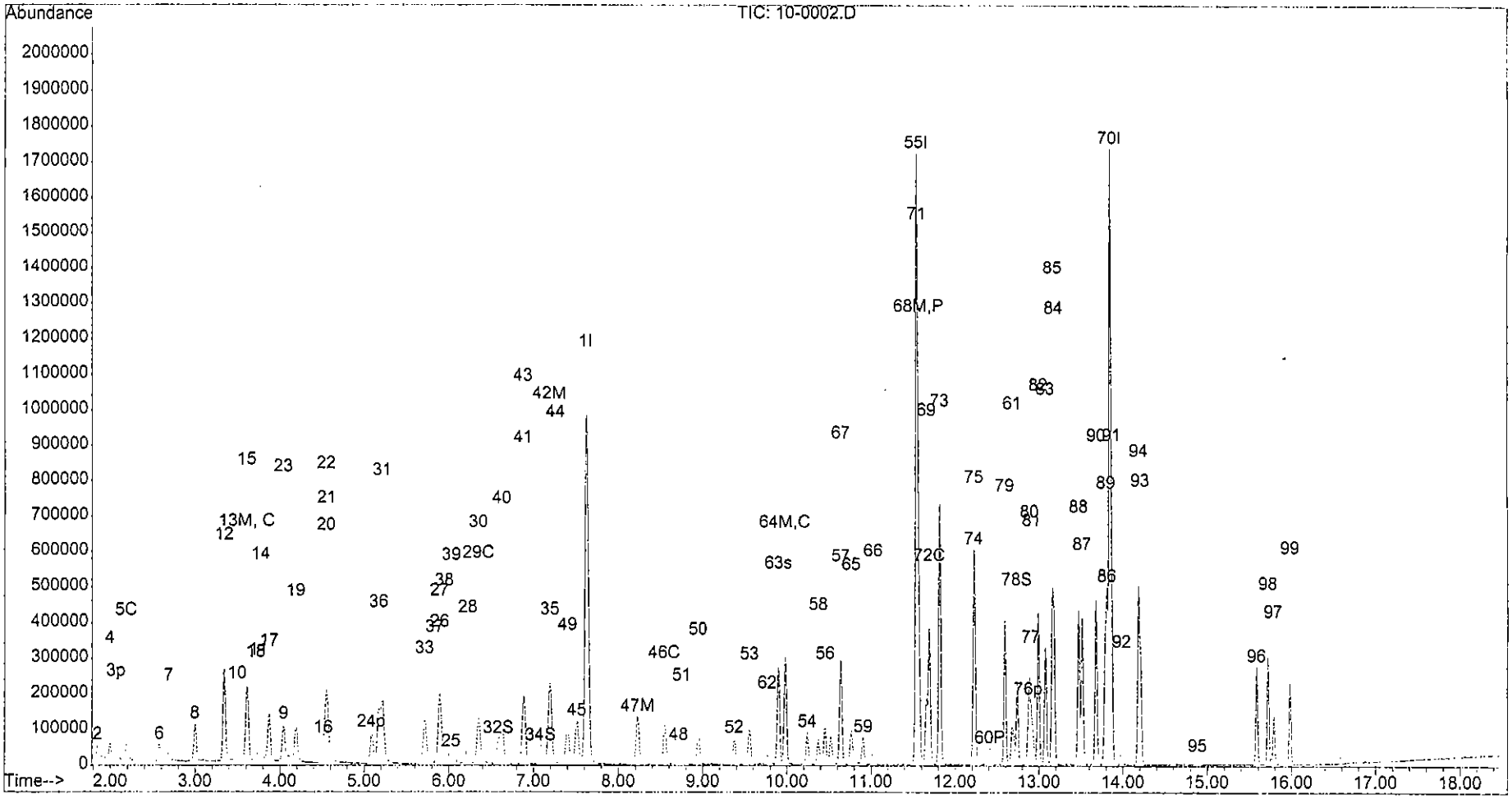
# = qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

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 | ? |

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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 | |

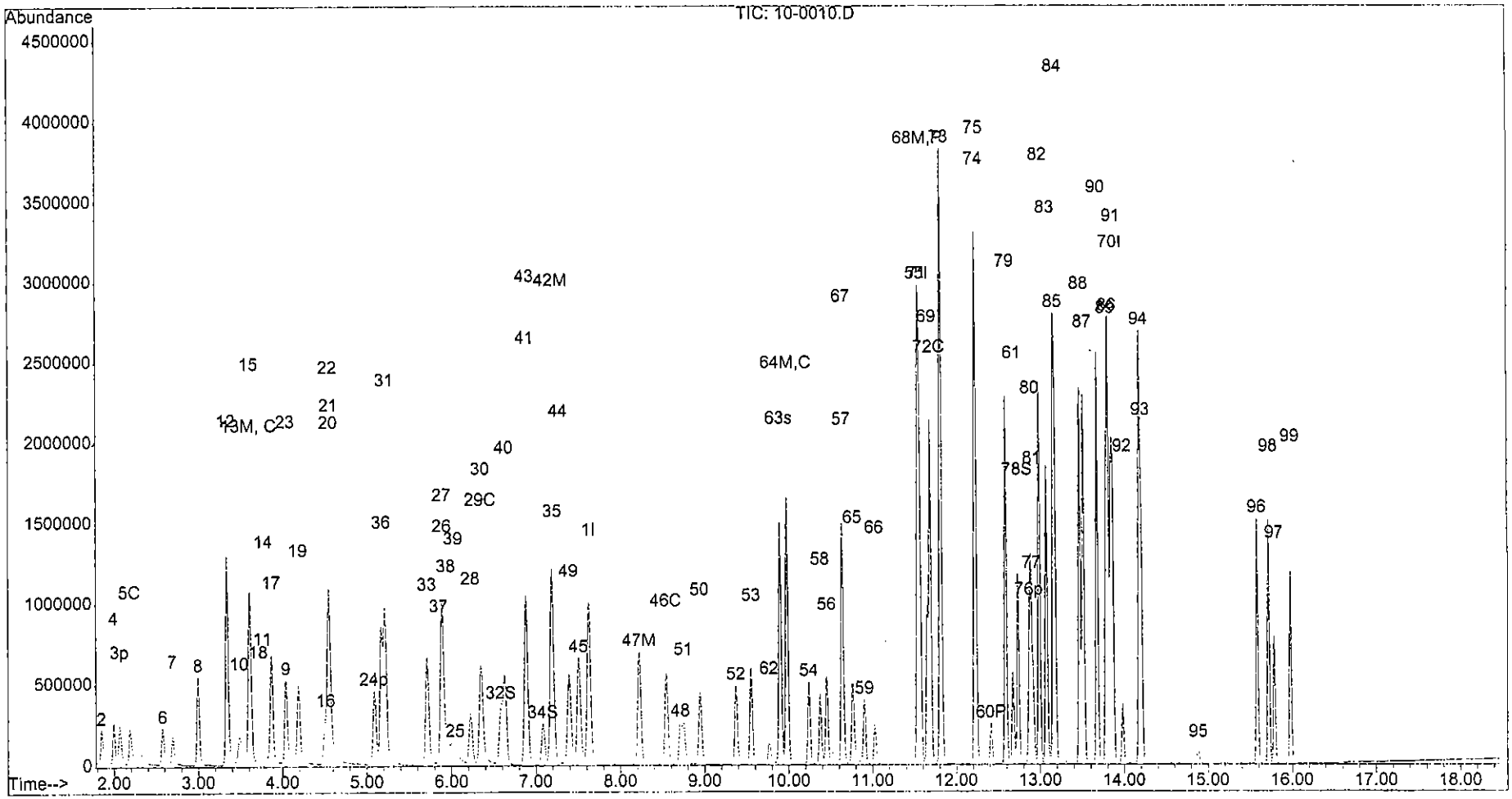
# = qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

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 | |

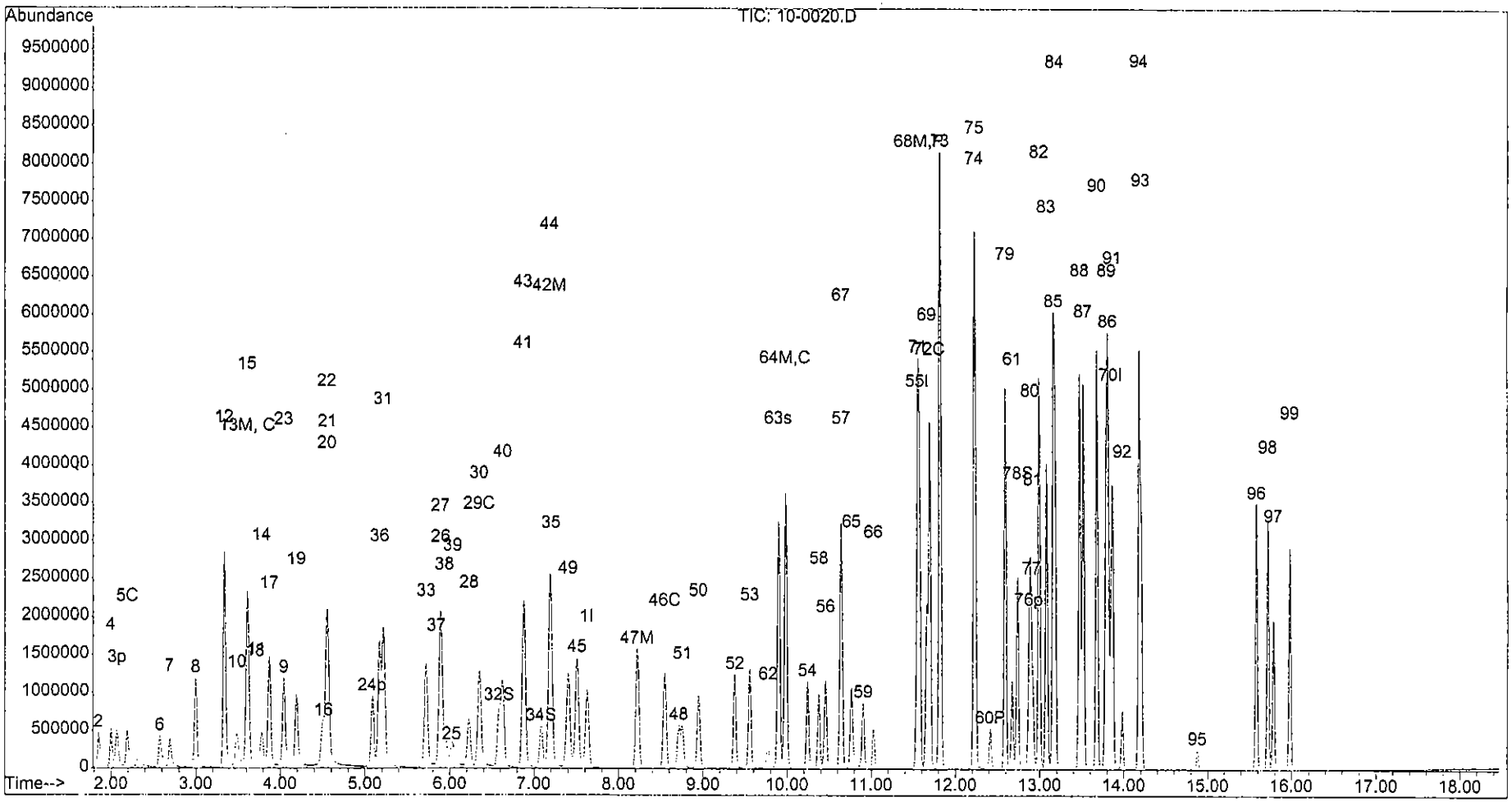
# = qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

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

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 | |

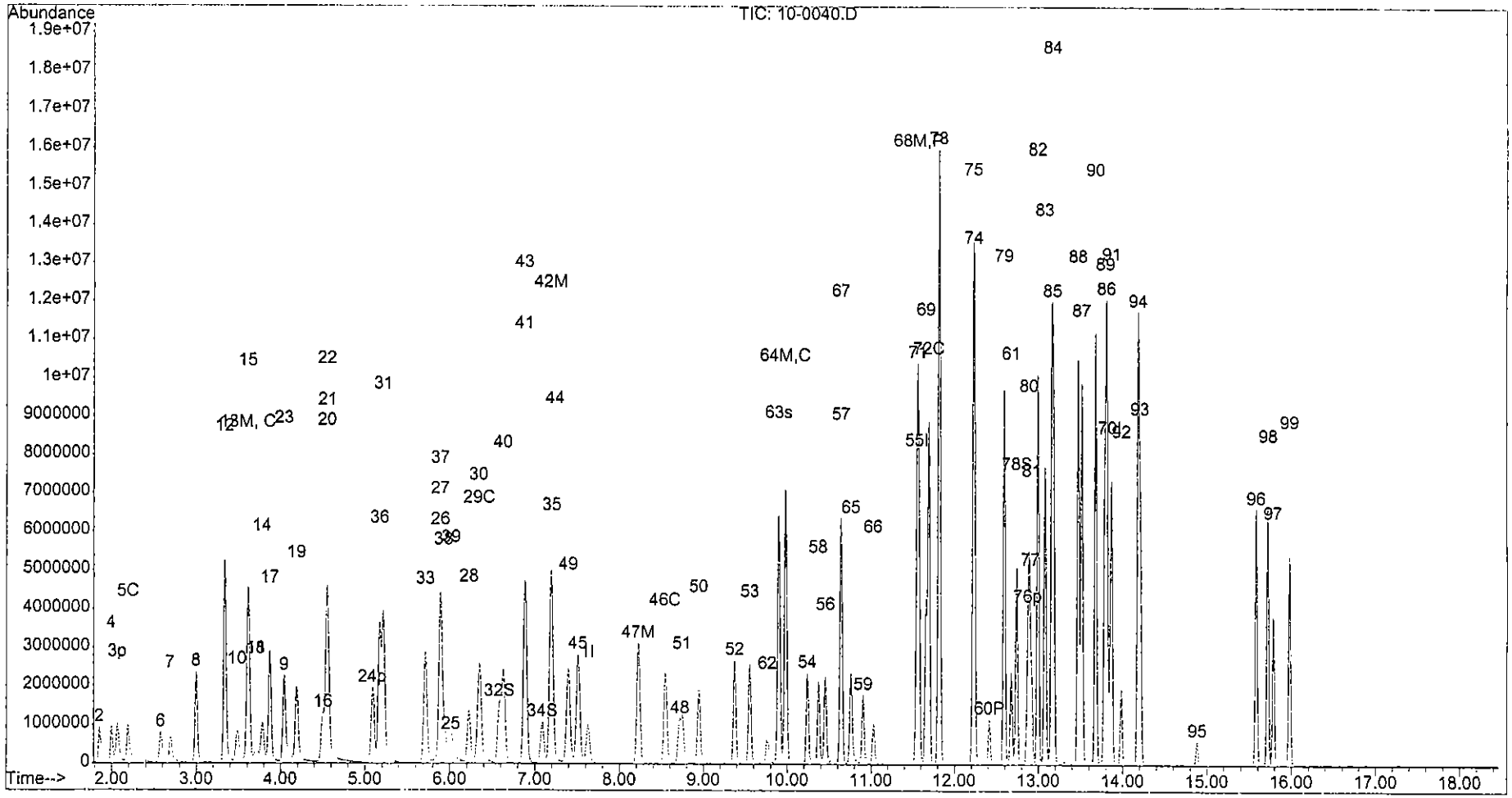
# = qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

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

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

5393

| 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 | |

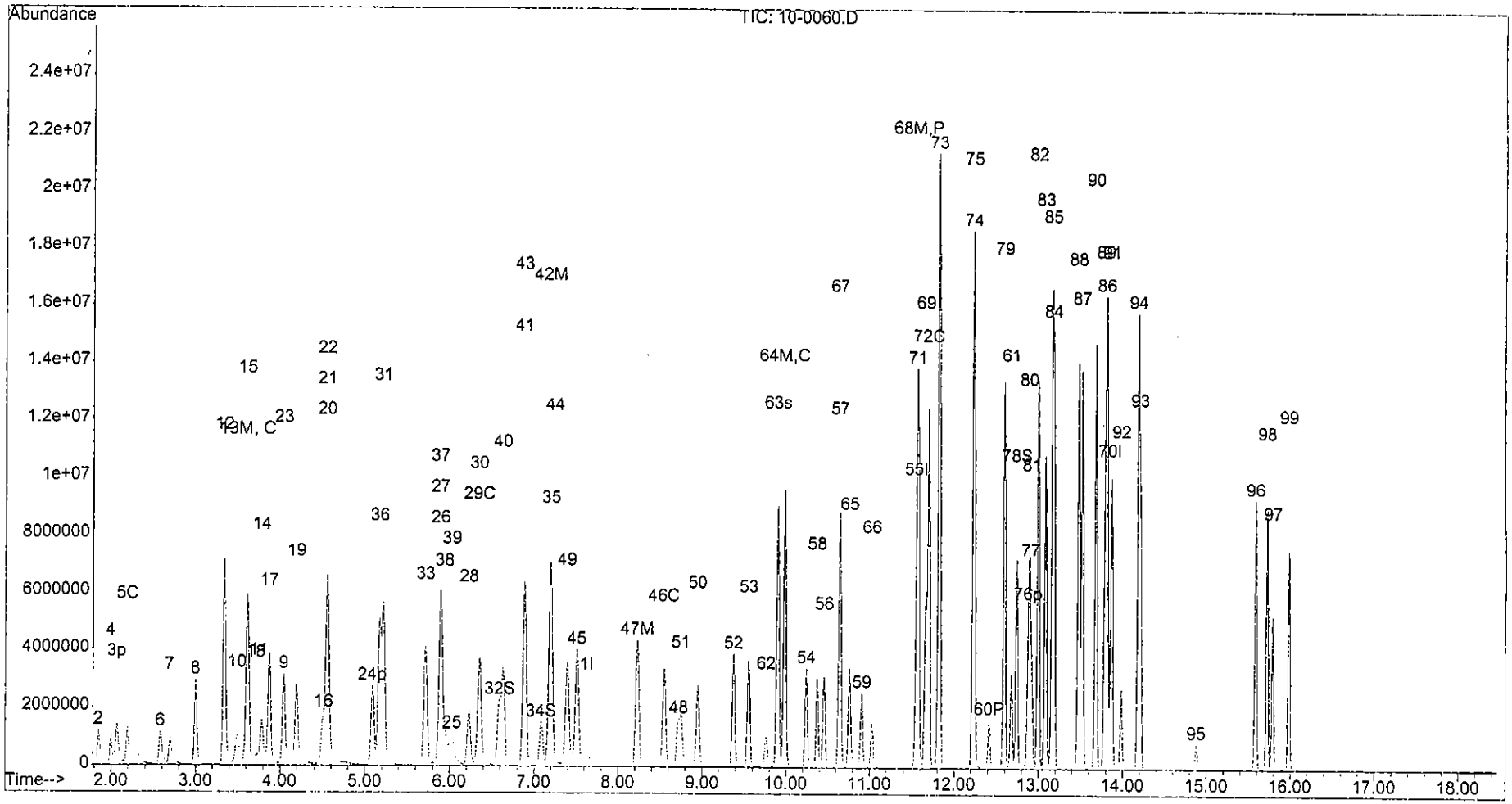
# = qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

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

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

5397

| 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 |
| 12 | 12 | ethyl ether X5 | 3.34 | 3.35 | -0.002 | 59 | 74 | 1724.155 | 98.97 | 99.0 | 98 | 04-1-03 |
| 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 | |

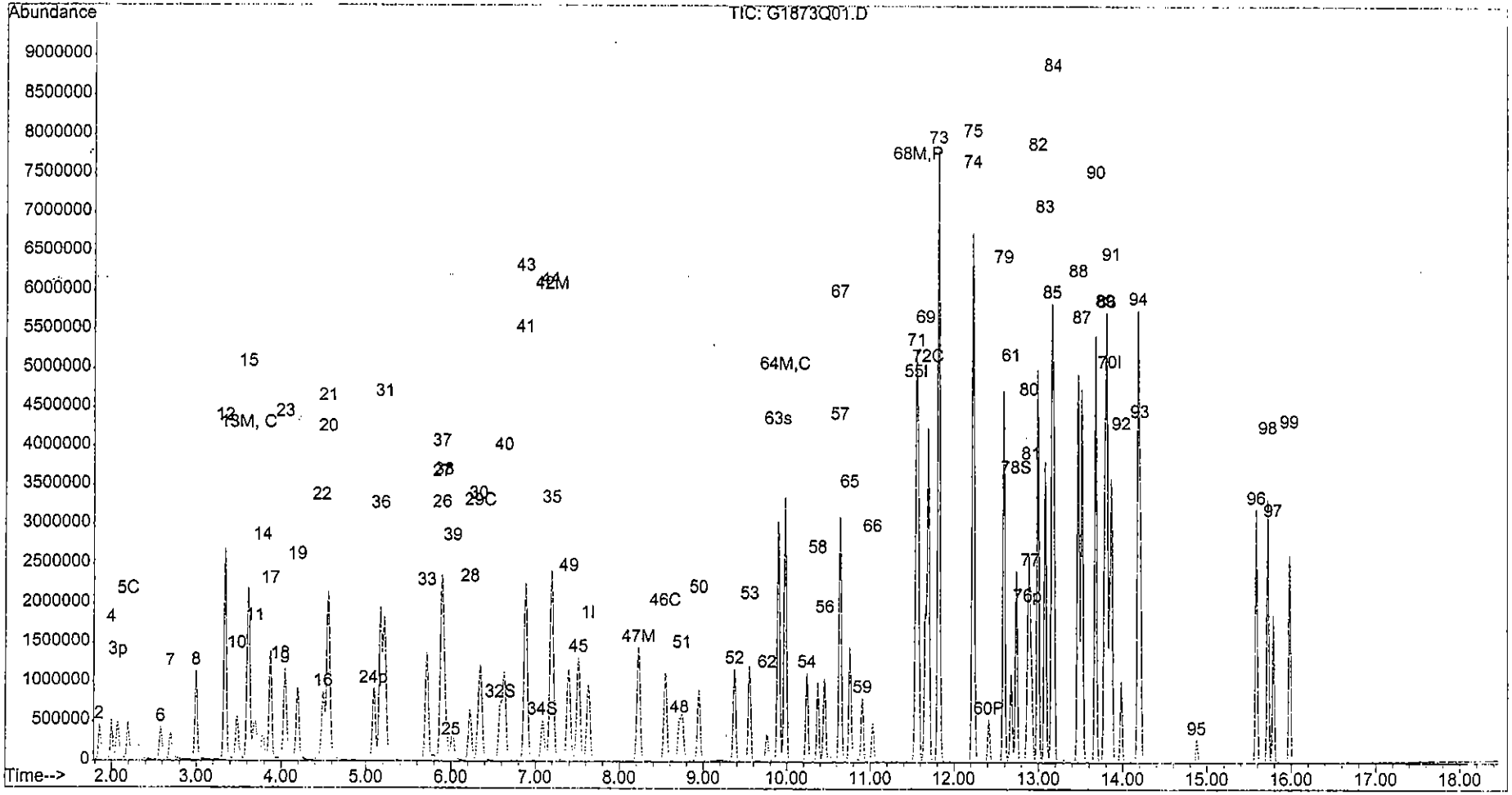
# = qualifier out of range, m = manual integration, ? = RT coelution, * = DRRT > 0.06

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%

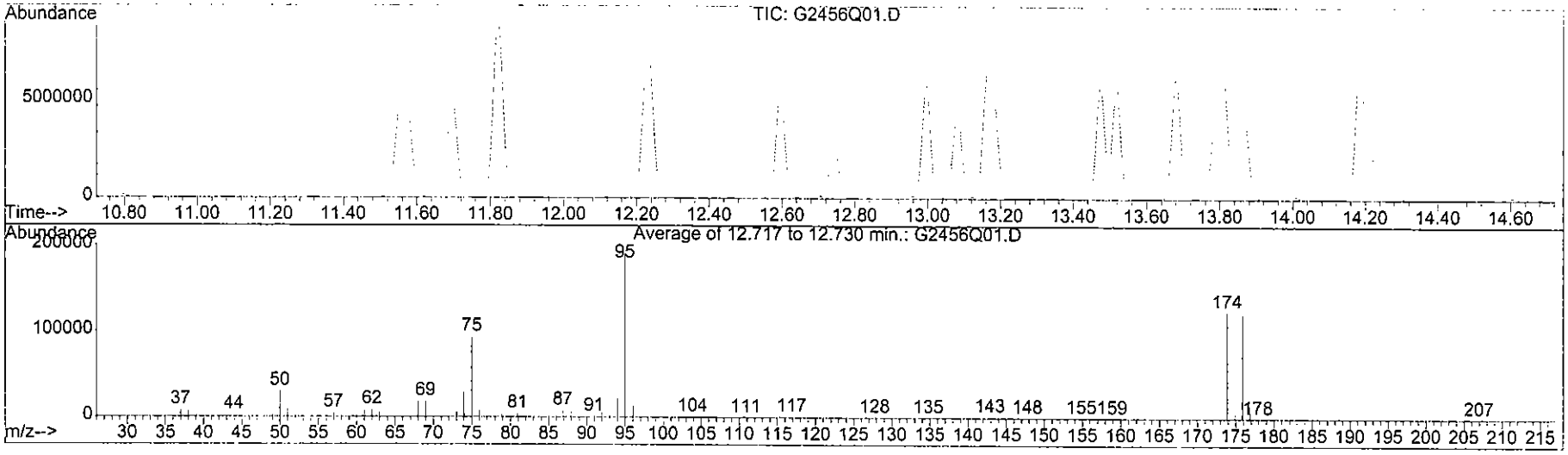
| | | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|---|
| 77 | | 69 | 123-tri-Cl-Pr | 0.141 | 0.140 | 0.7 | 98 | 0.00 |
| 78 | S | 70 | 4-Br-1-F-Bz (S3) | 0.761 | 0.765 | -0.5 | 95 | 0.00 |
| 79 | | 71 | isopropylbenzene | 3.425 | 3.663 | -6.9 | 96 | 0.00 |
| 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

5409

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




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 |
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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

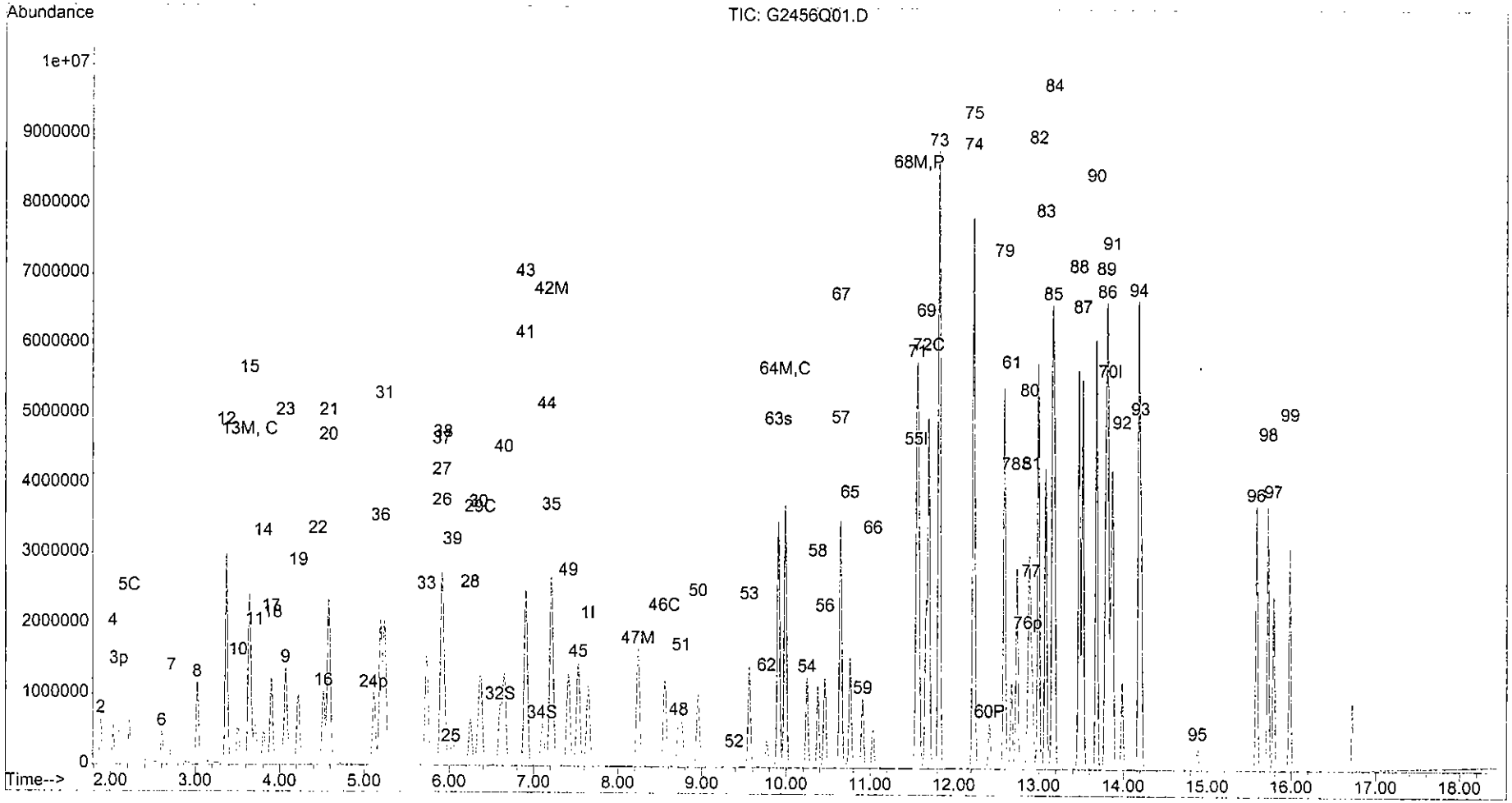
| ID | | Component Name | R.T. | RT0 | DRRT | QIon | Q1 | RF/1000 | C0,ppb | C,ppb | Quality | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80 | 80 | 13-DCB | 13.79 | 13.79 | 0.000 | 146 | 148 | 1882.277 | 18.33 | 18.3 | 100 | ? |
| 81 | 81 | sec-butylbenzene | 13.68 | 13.68 | 0.000 | 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

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 | | | | | | | | | |
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| 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

# VOC Analysis General Logbook

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sequence # 0361873 Batch # 0361873 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 | 0361873P01 | 8260A | 25/25=1 | / = | / = | 1 | | 0361873P01 | 3-30-03 2:29PM | |
| 4970 | Calib | 10-0003A | 010 | / = | / = | / = | | | 10-0003A | GC/14501 | |
| 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 | CCV | 0361873Z01 | | / = | / = | / = | | | 0361873Z01 | CCV/ICV 3-30-03 GC/14507/2 12:37AM | |
| 4977 | LCS | L01 | | / = | / = | / = | | | L01 | | |
| 4978 | MS | M01 | | / = | / = | / = | | | M01 | 2301-04 | L2 |
| 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 | L2 |
| 4984 | | 2301-05 | | / = | / = | / = | | | 2301-05 | tb | |
| 4985 | | 2303-04 | | / = | / = | / = | | | 2303-04 | tb | |
| 4986 | | 2303 03 | | / = | / = | / = | | | 2303-03 | mg | |
| 4987 | | 2301-04 | | / = | / = | / = | | | 2301-04 | mg | |
| 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 | A 23:15 | |
| 5000 | | | | / = | / = | / = | | | | | |

| 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 | 4977 | GC- | ×/X= ppb | | GC- | ×/X= ppb |
| MS/MSD | 4978/4979 | GC- 14492 | 20 ×/X= 20 ppb | | GC- | ×/X= ppb |

2.5 20

Footnote/Anomaly:

AL 4-2-03

FILE: [CUST.DOC.GC]VOC_LOG .TEX Root-File: VOC_LOG_ROOT.TEX 1-Page-File:[CUST.DOC.GC]VOC_LOG1.TEX; pH for field water sample only.
APCL form 7-201, April 03, 1996; Ver 4.1 No pencil. Use blue pen for record. Use red pen for correction. Supervisor Init: 5424

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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 | gc1514B | 1:15 pm |
| 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 | | | | / = | / = | / = | | | | | |

| 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