

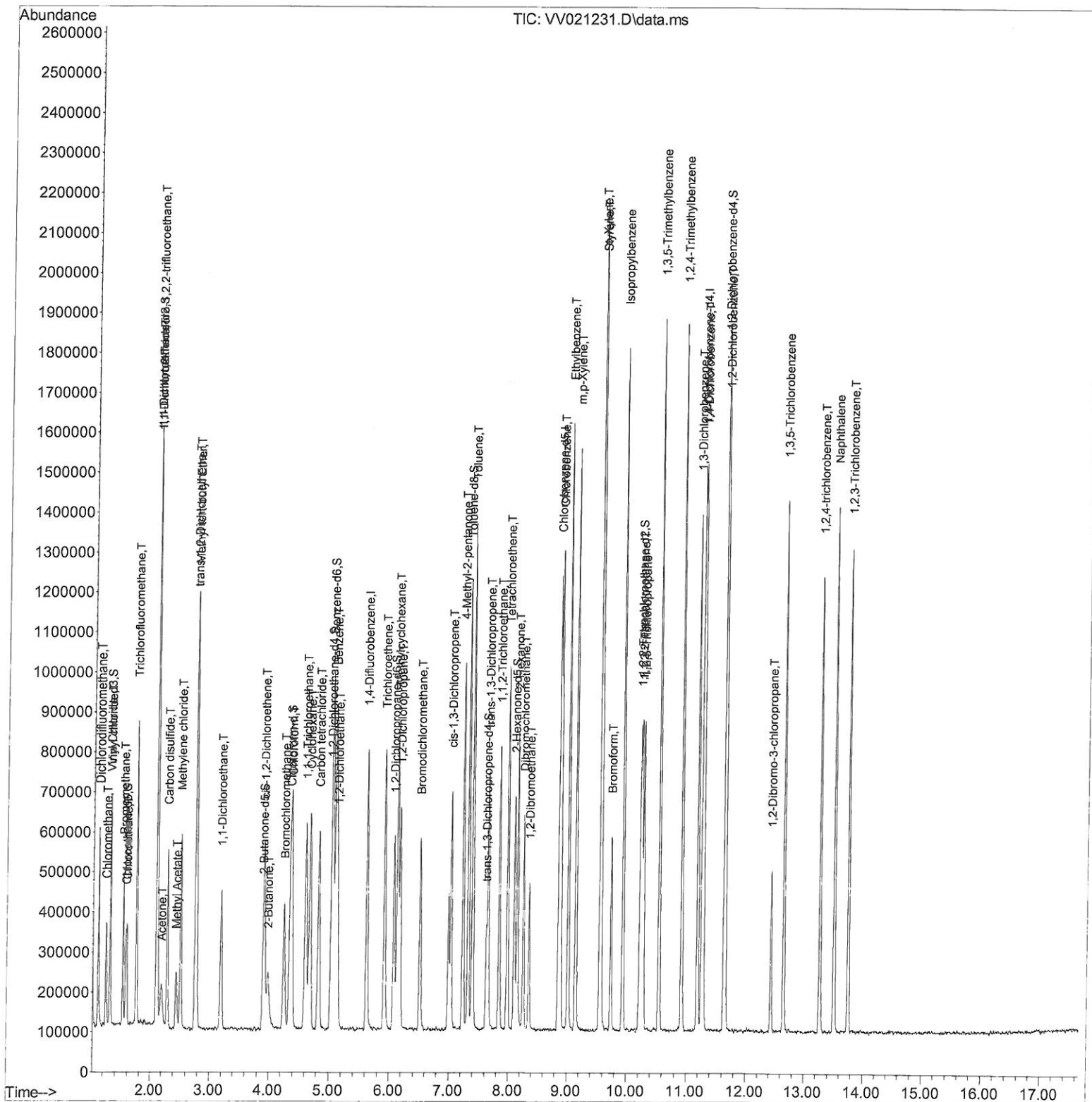
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV042921\  
Data File : VV021231.D  
Acq On : 29 Apr 2021 19:26  
Operator : SY/MD  
Sample : VSTDCCC050EC  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
LabSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

MMDadoda  
4/30/2021 3:51:03 PM

Quant Time: Apr 30 05:59:07 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM042121WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Apr 30 05:55:34 2021  
Response via : Initial Calibration



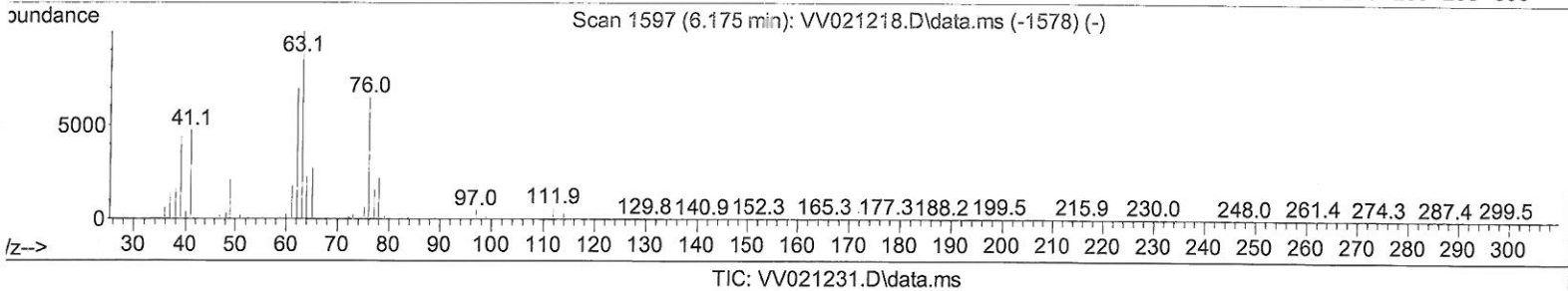
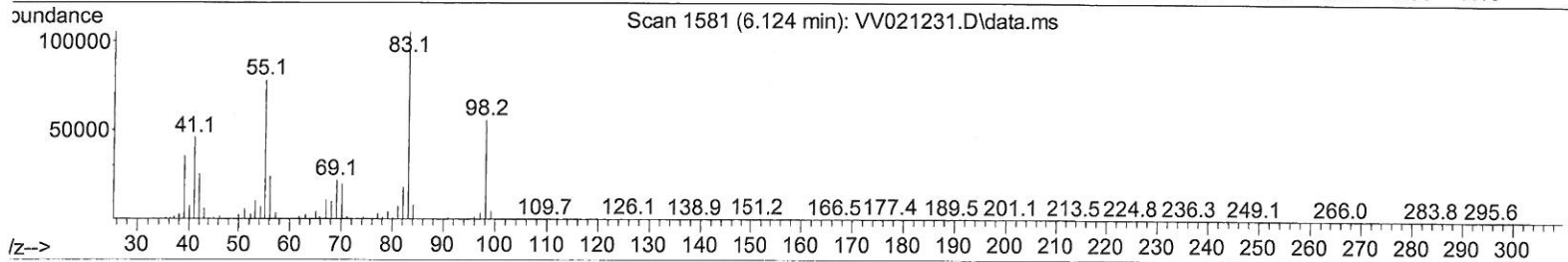
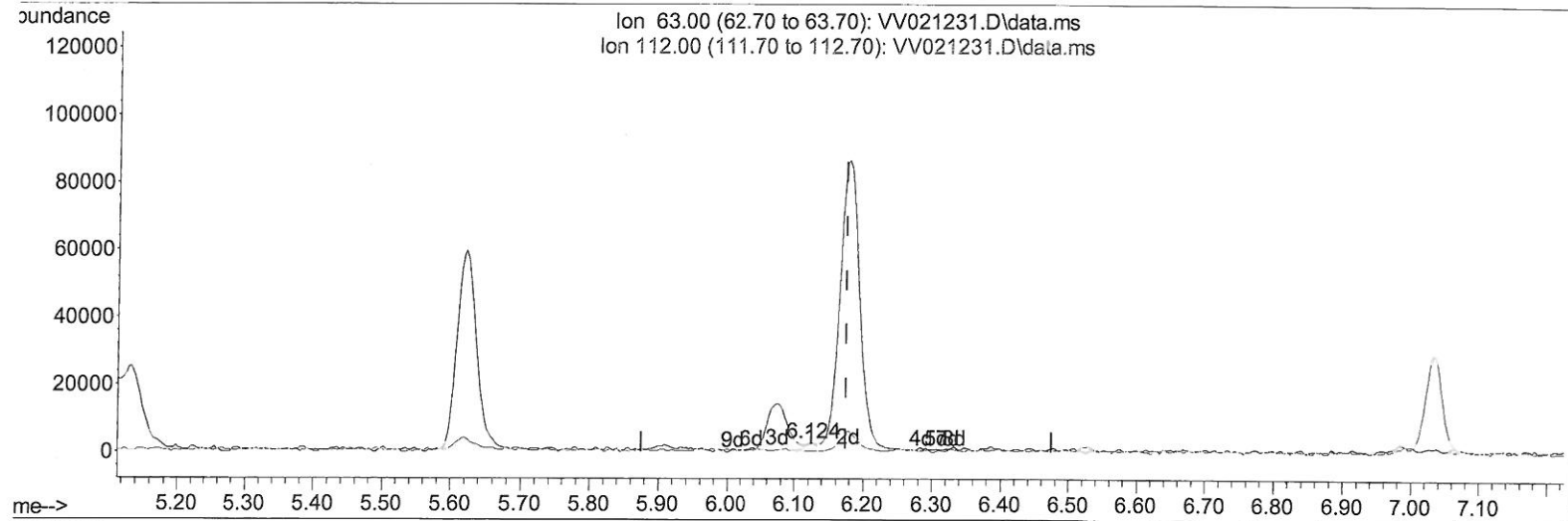
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(37) 1,2-Dichloropropane (T)

6.124min (-0.051) 0.39 ug/L

response 1572

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 63.00  | 100.00 | 100.00 |
| 112.00 | 4.90   | 4.33   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |

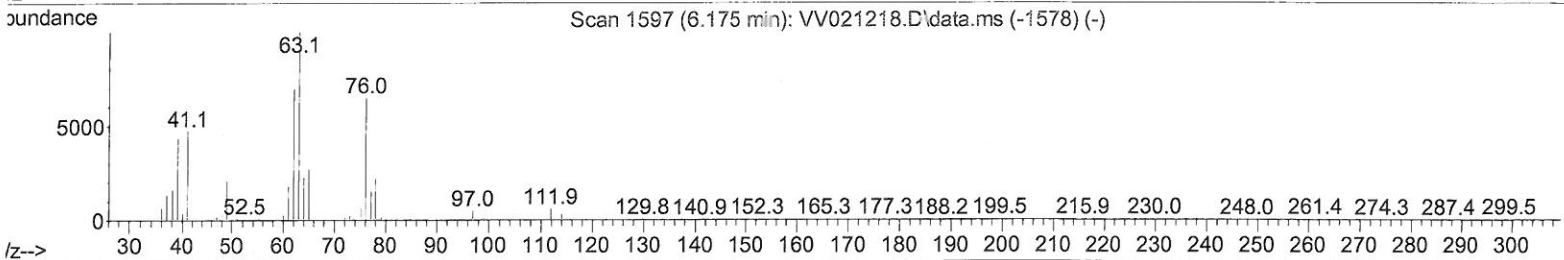
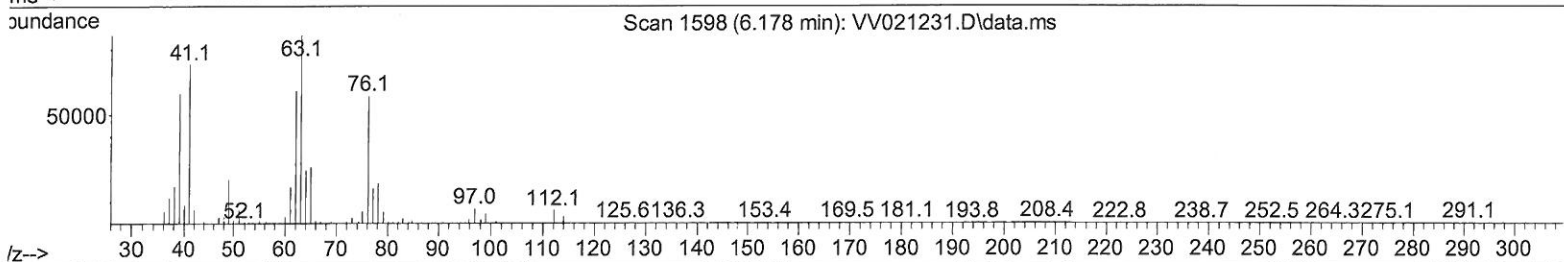
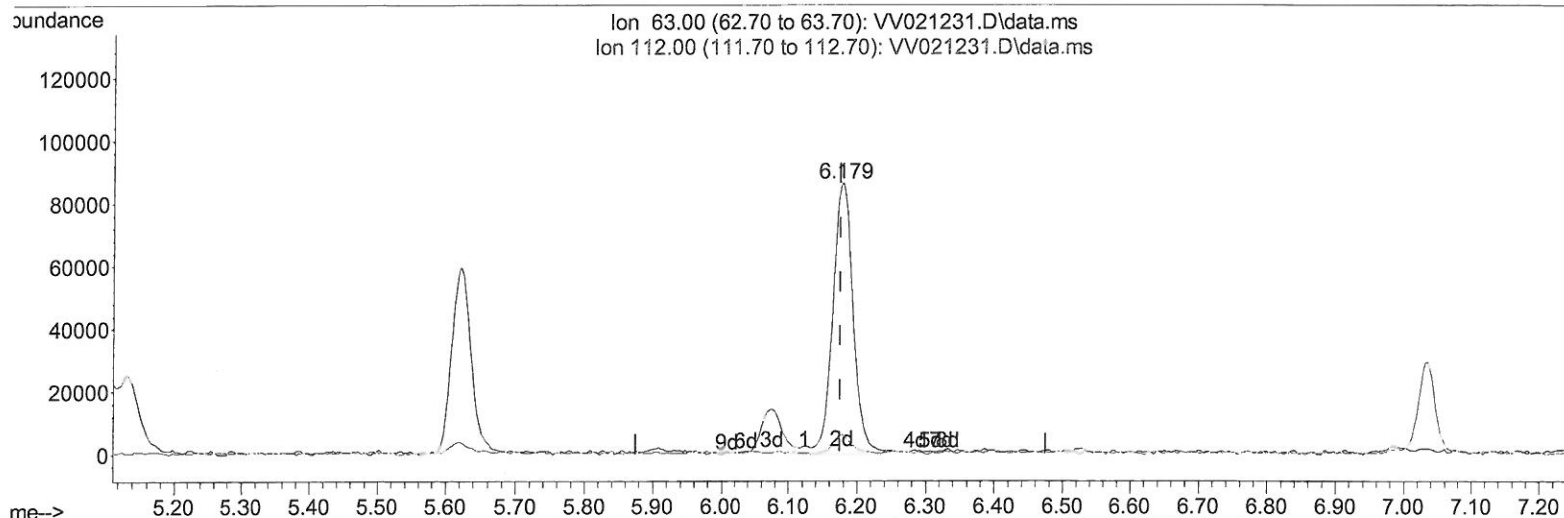
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(37) 1,2-Dichloropropane (T)

6.178min (+ 0.003) 45.30 ug/L m

response 180959

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 63.00  | 100.00 | 100.00 |
| 112.00 | 4.90   | 0.04#  |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |

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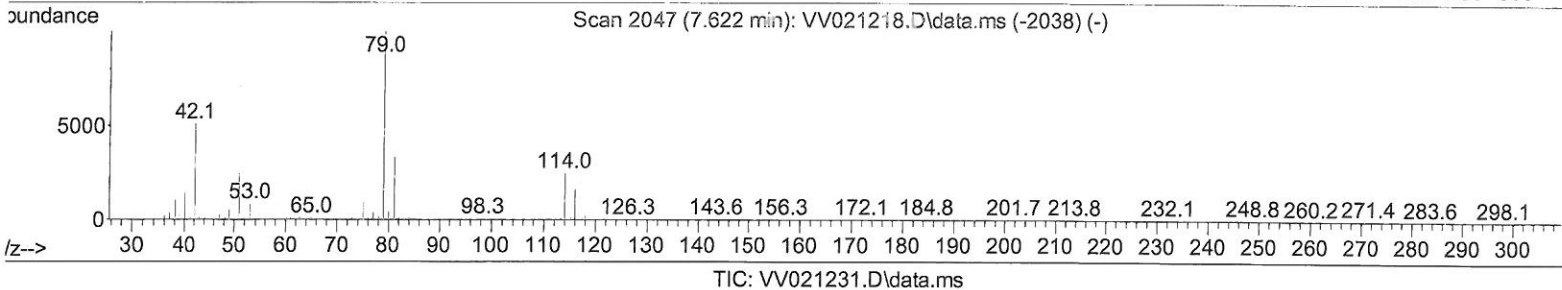
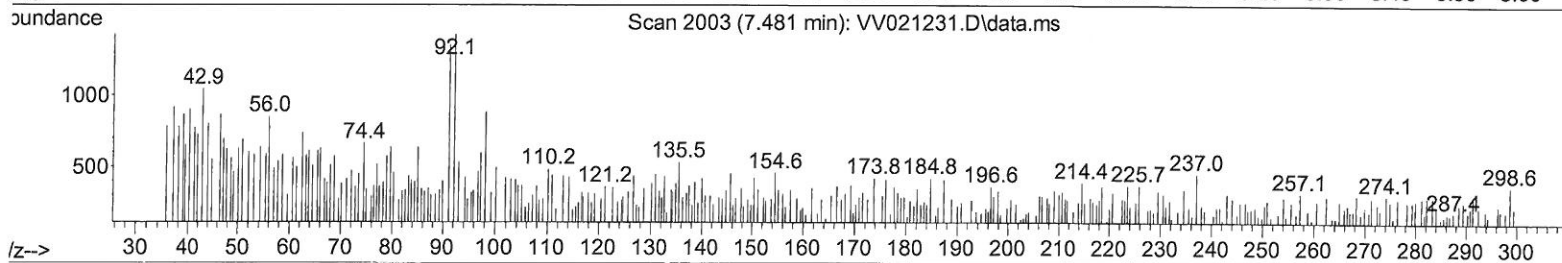
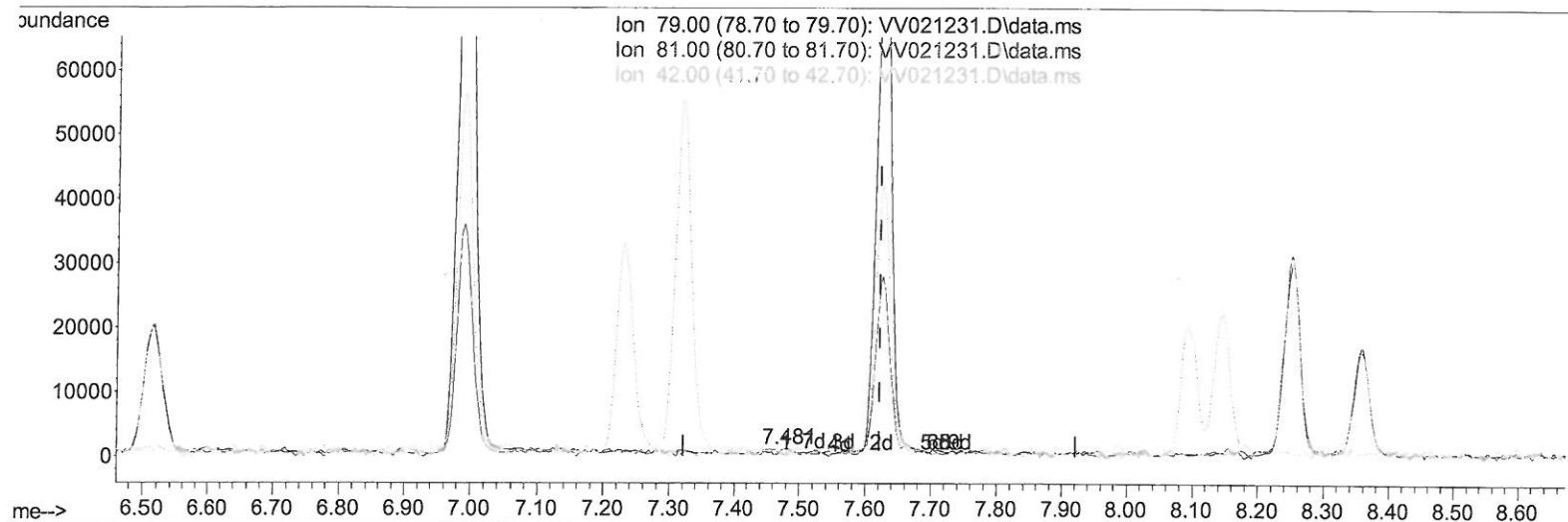
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(43) trans-1,3-Dichloropropene-d4 (S)

7.481min (-0.141) 0.49 ug/L

response 1242

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 79.00 | 100.00 | 100.00 |
| 81.00 | 32.90  | 38.16  |
| 42.00 | 35.10  | 43.96  |
| 0.00  | 0.00   | 0.00   |

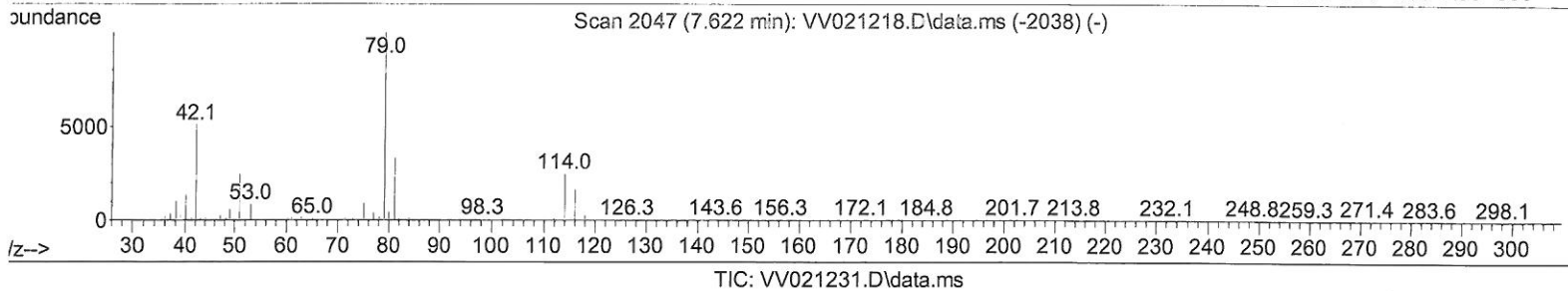
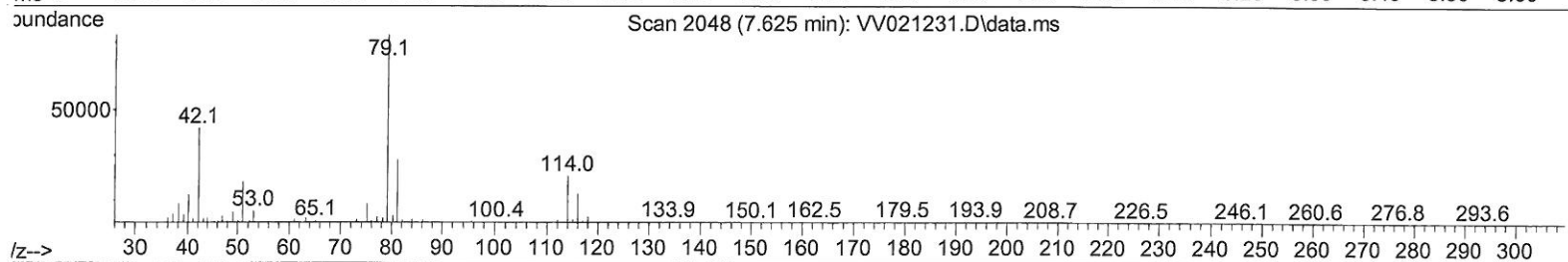
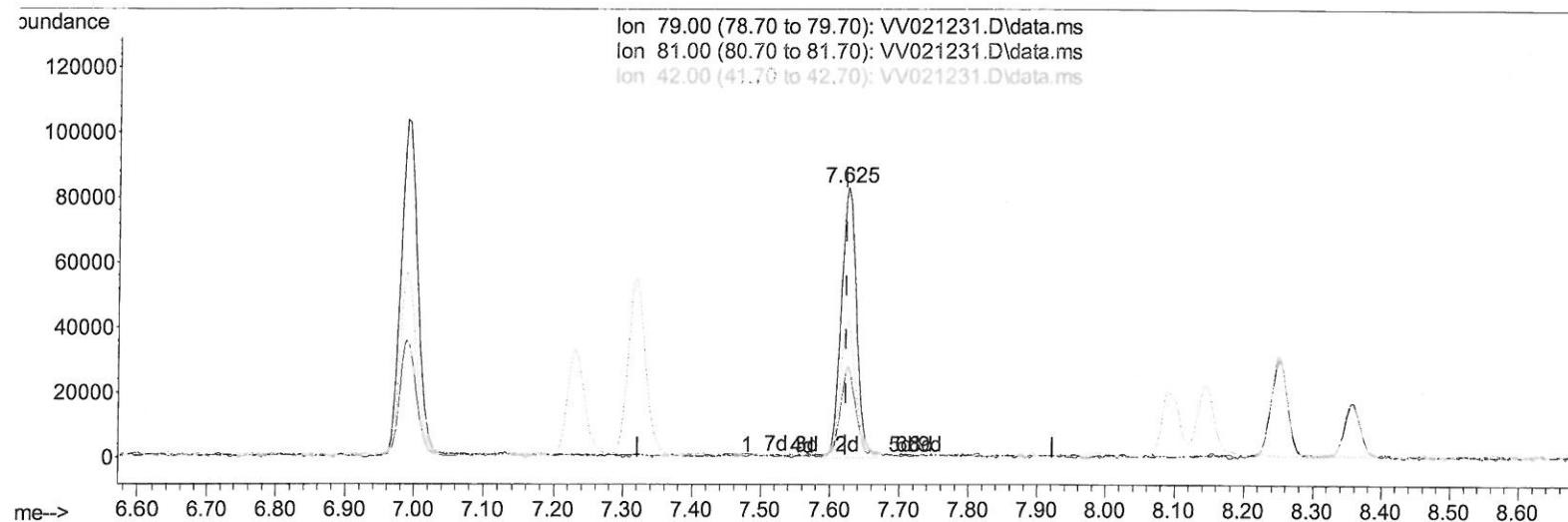
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(43) trans-1,3-Dichloropropene-d4 (S)

7.625min (+ 0.003) 50.66 ug/L m

response 128387

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 79.00 | 100.00 | 100.00 |
| 81.00 | 32.90  | 0.37#  |
| 42.00 | 35.10  | 0.43#  |
| 0.00  | 0.00   | 0.00   |

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| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) 1,4-Difluorobenzene        | 5.619          | 114  | 599912     | 50.00   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.857          | 117  | 583362     | 50.00   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.255         | 152  | 338000     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 4) Vinyl Chloride-d3          | 1.307          | 65   | 166638     | 33.80   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 67.60%  |        |          |
| 7) Chloroethane-d5            | 1.571          | 69   | 129863     | 35.81   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 71.62%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.111          | 63   | 365959     | 40.25   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 80.50%  |        |          |
| 21) 2-Butanone-d5             | 3.896          | 46   | 257992     | 107.18  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 107.18% |        |          |
| 24) Chloroform-d              | 4.352          | 84   | 411763     | 46.85   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 93.70%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.034          | 65   | 300355     | 53.77   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 107.54% |        |          |
| 32) Benzene-d6                | 5.053          | 84   | 718675     | 46.26   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 92.52%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.076          | 67   | 192711     | 41.56   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 83.12%  |        |          |
| 41) Toluene-d8                | 7.320          | 98   | 718290     | 47.77   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 95.54%  |        |          |
| 43) trans-1,3-Dichloroprop... | 7.625          | 79   | 128387m    | 50.66   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 101.32% |        |          |
| 47) 2-Hexanone-d5             | 8.092          | 63   | 188791     | 102.64  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 102.64% |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.220         | 84   | 306904     | 43.88   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 87.76%  |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.632         | 152  | 332924     | 49.86   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 99.72%  |        |          |
| Target Compounds              |                |      |            |         |        |          |
| 2) Dichlorodifluoromethane    | 1.130          | 85   | 257981     | 42.59   | ug/L   | 100      |
| 3) Chloromethane              | 1.243          | 50   | 183412     | 35.18   | ug/L   | 94       |
| 5) Vinyl chloride             | 1.314          | 62   | 200609     | 37.59   | ug/L   | 100      |
| 6) Bromomethane               | 1.523          | 94   | 142152     | 39.53   | ug/L   | 100      |
| 8) Chloroethane               | 1.587          | 64   | 124314     | 39.48   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 1.754          | 101  | 434995     | 45.74   | ug/L   | 96       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.118          | 101  | 189037     | 40.08   | ug/L   | 94       |
| 12) 1,1-Dichloroethene        | 2.121          | 96   | 171938     | 40.15   | ug/L   | 90       |
| 13) Acetone                   | 2.195          | 43   | 218531     | 97.19   | ug/L   | 74       |
| 14) Carbon disulfide          | 2.294          | 76   | 499458     | 42.52   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.439          | 43   | 177515     | 47.74   | ug/L   | 98       |
| 16) Methylene chloride        | 2.510          | 84   | 203519     | 45.57   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 2.761          | 96   | 188548     | 45.82   | ug/L   | 94       |
| 18) Methyl tert-butyl Ether   | 2.770          | 73   | 656875     | 52.00   | ug/L # | 91       |
| 19) 1,1-Dichloroethane        | 3.191          | 63   | 336229     | 45.28   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 3.915          | 96   | 215293     | 49.02   | ug/L # | 96       |
| 22) 2-Butanone                | 3.982          | 43   | 265022     | 101.77  | ug/L   | 95       |
| 23) Bromochloromethane        | 4.253          | 128  | 124187     | 49.07   | ug/L   | 95       |

7 MD  
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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 25) Chloroform                | 4.378  | 83   | 408584   | 48.89  | ug/L   | 96       |
| 27) 1,2-Dichloroethane        | 5.134  | 62   | 372554   | 55.99  | ug/L   | 99       |
| 29) Cyclohexane               | 4.680  | 56   | 270691   | 45.60  | ug/L   | 96       |
| 30) 1,1,1-Trichloroethane     | 4.613  | 97   | 412890   | 52.83  | ug/L   | 98       |
| 31) Carbon tetrachloride      | 4.831  | 117  | 383701   | 53.16  | ug/L   | 99       |
| 33) Benzene                   | 5.101  | 78   | 764096   | 46.99  | ug/L   | 100      |
| 34) Trichloroethene           | 5.918  | 95   | 223611   | 49.68  | ug/L   | 96       |
| 35) Methylcyclohexane         | 6.137  | 83   | 310600   | 45.92  | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.178  | 63   | 180959m  | 45.30  | ug/L   | 99       |
| 38) Bromodichloromethane      | 6.513  | 83   | 307060   | 49.33  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.031  | 75   | 309782   | 47.55  | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 7.230  | 43   | 533745   | 110.54 | ug/L   | 96       |
| 42) Toluene                   | 7.391  | 91   | 869785   | 48.72  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 7.654  | 75   | 331348   | 49.15  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 7.844  | 97   | 206386   | 47.57  | ug/L   | 94       |
| 46) Tetrachloroethene         | 7.979  | 164  | 201289   | 50.00  | ug/L   | 97       |
| 48) 2-Hexanone                | 8.143  | 43   | 410607   | 107.99 | ug/L   | 97       |
| 49) Dibromochloromethane      | 8.249  | 129  | 274995   | 51.46  | ug/L   | 97       |
| 50) 1,2-Dibromoethane         | 8.355  | 107  | 227576   | 48.52  | ug/L   | 97       |
| 51) Chlorobenzene             | 8.886  | 112  | 592498   | 48.26  | ug/L   | 99       |
| 52) Ethylbenzene              | 9.018  | 91   | 1004971  | 50.77  | ug/L   | 99       |
| 53) m,p-Xylene                | 9.143  | 106  | 400996   | 53.16  | ug/L   | 96       |
| 54) o-Xylene                  | 9.548  | 106  | 388072   | 52.37  | ug/L   | 100      |
| 55) Styrene                   | 9.564  | 104  | 672727   | 53.75  | ug/L   | 96       |
| 57) 1,1,2,2-Tetrachloroethane | 10.246 | 83   | 304109   | 44.10  | ug/L # | 99       |
| 59) Bromoform                 | 9.735  | 173  | 215098   | 51.92  | ug/L   | 99       |
| 60) Isopropylbenzene          | 9.934  | 105  | 1051079  | 52.02  | ug/L   | 100      |
| 61) 1,2,3-Trichloropropane    | 10.278 | 75   | 272668   | 47.85  | ug/L   | 97       |
| 62) 1,3,5-Trimethylbenzene    | 10.545 | 105  | 915932   | 53.38  | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 10.921 | 105  | 931698   | 54.45  | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 11.188 | 146  | 524710   | 52.13  | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 11.278 | 146  | 527215   | 50.98  | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 11.651 | 146  | 536117   | 51.60  | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.435 | 75   | 91402    | 53.51  | ug/L   | 98       |
| 69) 1,3,5-Trichlorobenzene    | 12.651 | 180  | 411691   | 52.59  | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.268 | 180  | 340151   | 53.01  | ug/L   | 98       |
| 71) Naphthalene               | 13.509 | 128  | 1013538  | 56.71  | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.754 | 180  | 362790   | 55.42  | ug/L   | 98       |

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(#) = qualifier out of range (m) = manual integration (+) = signals summed