

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060520\  
 Data File : VV016537.D  
 Acq On : 05 Jun 2020 15:42  
 Operator : SY/MD  
 Sample : L2861-09  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jun 06 00:11:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060320WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jun 06 00:07:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 397802   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.88  | 117  | 390206   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 198714   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 110169   | 39.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 78.20%  |
| 7) Chloroethane-d5             | 1.56    | 69    | 77392    | 38.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 76.10%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 144710   | 28.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 57.94%# |
| 21) 2-Butanone-d5              | 3.90    | 46    | 166094   | 92.19    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 92.19%  |
| 24) Chloroform-d               | 4.38    | 84    | 218771   | 41.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 82.74%  |
| 26) 1,2-Dichloroethane-d4      | 5.07    | 65    | 163803   | 46.26    | ug/L | 0.02    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.52%  |
| 32) Benzene-d6                 | 5.08    | 84    | 442858   | 42.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 84.74%  |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 134715   | 41.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 82.72%  |
| 41) Toluene-d8                 | 7.35    | 98    | 414971   | 43.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.42%  |
| 43) trans-1,3-Dichloropropene- | 7.65    | 79    | 60129    | 37.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 75.76%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 129343   | 92.73    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 92.73%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 171530   | 38.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 77.66%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 166698   | 44.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.28%  |

## Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc     | Units  | Ovalue |
|--------------------------------|-------|------|----------|----------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101  | 1564     | 0.681    | ug/L # | 20     |
| 13) Acetone                    | 2.17  | 43   | 8758     | 5.201    | ug/L   | 100    |
| 15) Methyl Acetate             | 2.44  | 43   | 29776    | 9.621    | ug/L # | 54     |
| 27) 1,2-Dichloroethane         | 5.15  | 62   | 831366   | 189.416  | ug/L # | 76     |
| 29) Cyclohexane                | 4.70  | 56   | 758362   | 163.749  | ug/L   | 99     |
| 35) Methylcyclohexane          | 6.15  | 83   | 121926   | 28.209   | ug/L   | 97     |
| 39) cis-1,3-Dichloropropene    | 7.01  | 75   | 7204     | 1.652    | ug/L   | 93     |
| 40) 4-Methyl-2-pentanone       | 7.27  | 43   | 4919     | 1.195    | ug/L # | 85     |
| 48) 2-Hexanone                 | 8.17  | 43   | 12924    | 4.039    | ug/L # | 91     |
| 53) m,p-Xylene                 | 9.17  | 106  | 6245137  | 1251.390 | ug/L   | 92     |
| 54) o-xylene                   | 9.57  | 106  | 5499717  | 1137.882 | ug/L   | 92     |
| 56) Isopropylbenzene           | 9.96  | 105  | 793119   | 63.175   | ug/L   | 100    |
| 58) 1,1,2,2-Tetrachloroethane  | 10.25 | 83   | 13992    | 3.016    | ug/L # | 72     |
| 59) 1,2,3-Trichloropropane     | 10.25 | 75   | 5576     | 1.494    | ug/L   | 90     |
| 66) 1,2-Dibromo-3-chloropropan | 12.28 | 75   | 2801     | 2.978    | ug/L # | 3      |
| 69) Naphthalene                | 13.53 | 128  | 2601645  | 221.035  | ug/L   | 99     |

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Sample : L2861-09  
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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Jun 06 00:11:30 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060320WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jun 06 00:07:58 2020  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

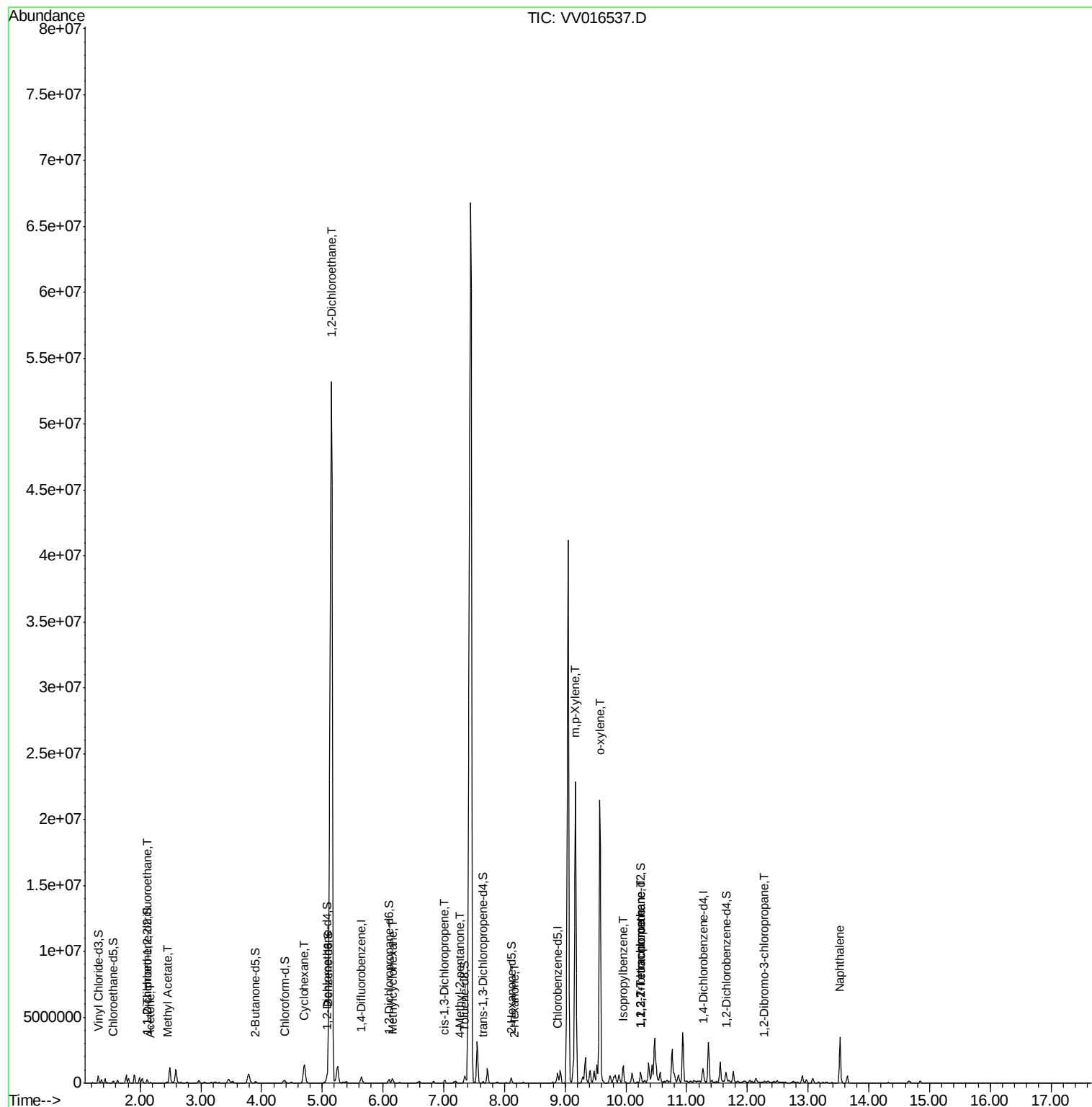
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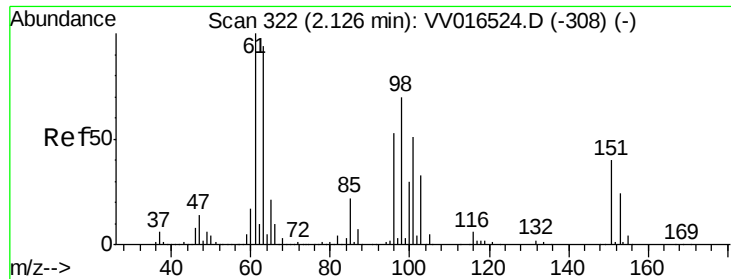
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060320WMA.M  
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Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.681 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV016537.D

Acq: 05 Jun 2020 15:42

Instrument :

MSVOA\_V

ClientSampled :

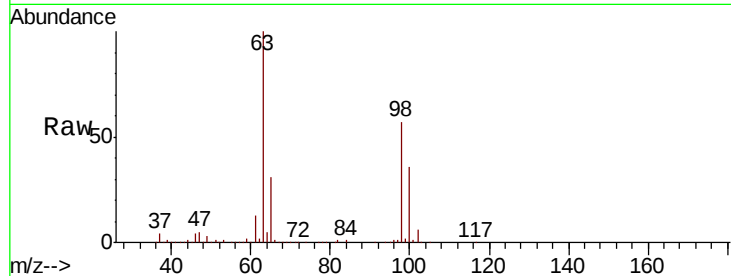
Tot Ion:101 Resp: 1564

Ion Ratio Lower Upper

101 100

85 2.6 35.6 53.4#

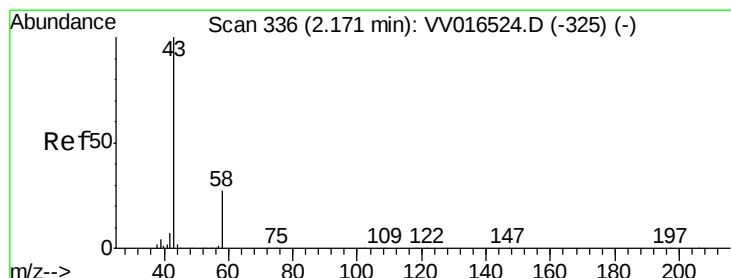
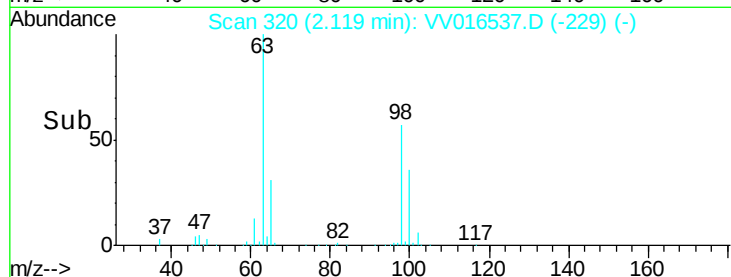
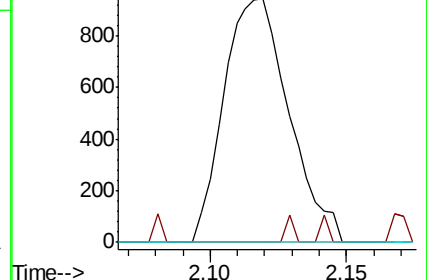
151 0.0 61.8 92.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 5.201 ug/L

RT: 2.17 min Scan# 337

Delta R.T. 0.00 min

Lab File: VV016537.D

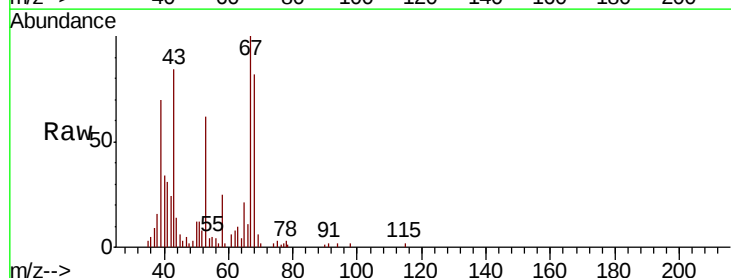
Acq: 05 Jun 2020 15:42

Tgt Ion: 43 Resp: 8758

Ion Ratio Lower Upper

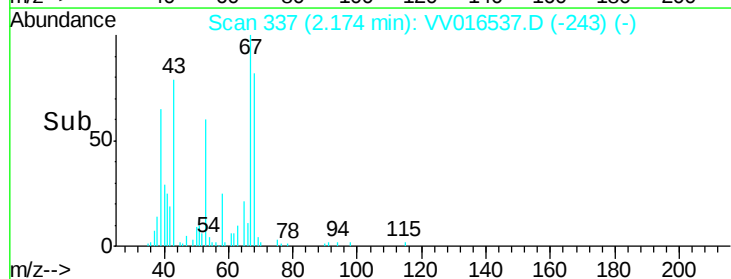
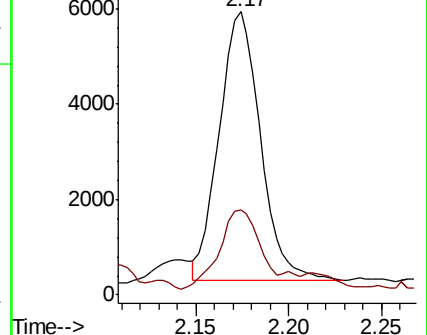
43 100

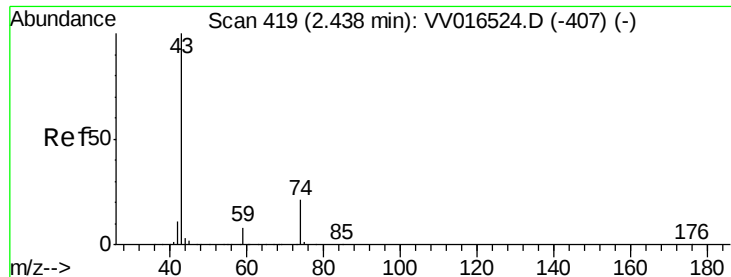
58 28.8 0.0 57.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

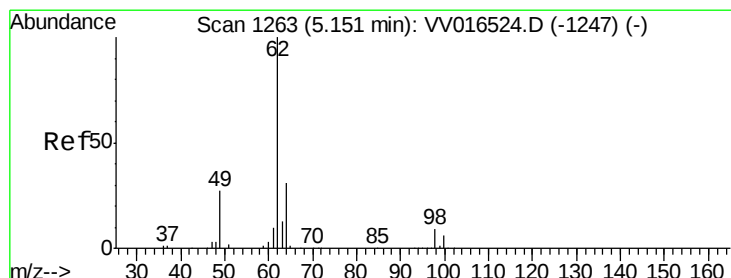
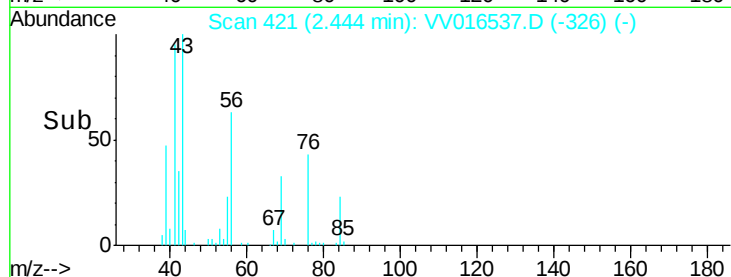
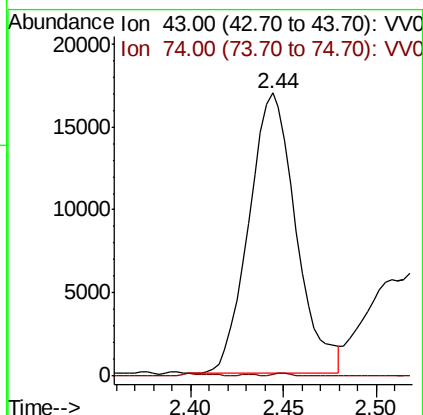
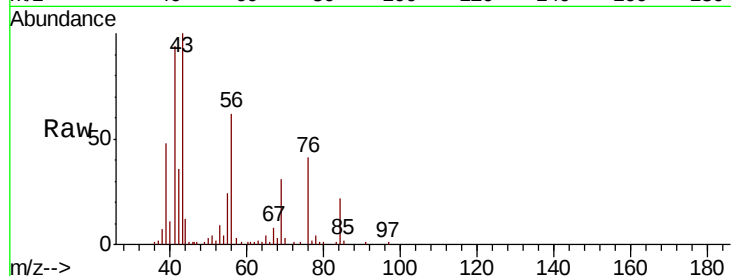




#15  
Methvl Acetate  
Concen: 9.621 ug/L  
RT: 2.44 min Scan# 421  
Delta R.T. 0.01 min  
Lab File: VV016537.D  
Acq: 05 Jun 2020 15:42

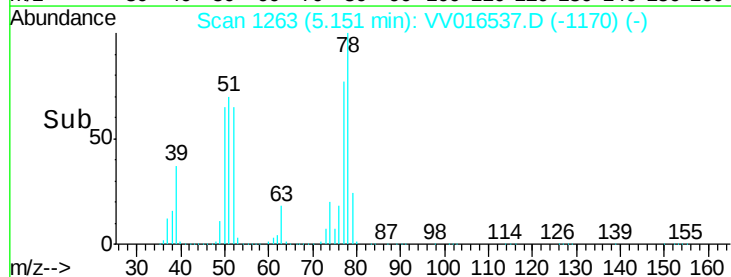
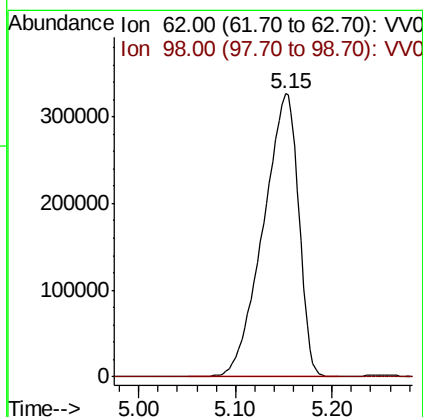
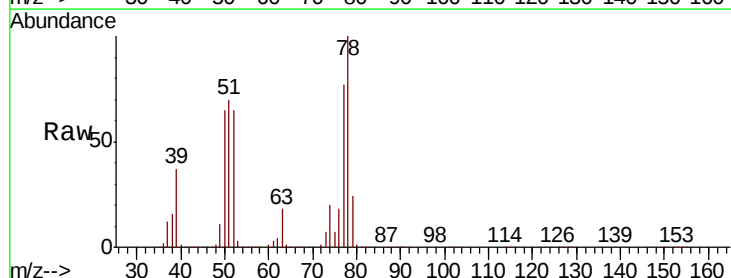
Instrument :  
MSVOA\_V  
ClientSampleId :

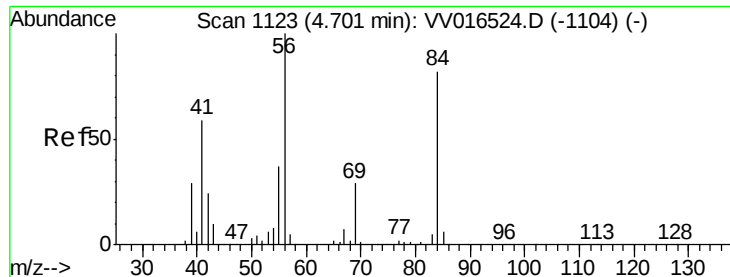
Tot Ion: 43 Resp: 29776  
Ion Ratio Lower Upper  
43 100  
74 0.3 18.1 27.1#



#27  
1,2-Dichloroethane  
Concen: 189.416 ug/L  
RT: 5.15 min Scan# 1263  
Delta R.T. 0.00 min  
Lab File: VV016537.D  
Acq: 05 Jun 2020 15:42

Tgt Ion: 62 Resp: 831366  
Ion Ratio Lower Upper  
62 100  
98 0.0 6.9 10.3#

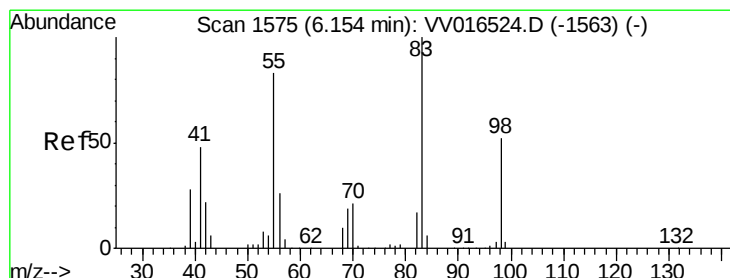
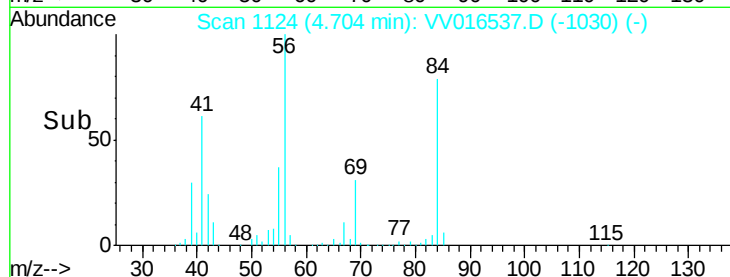
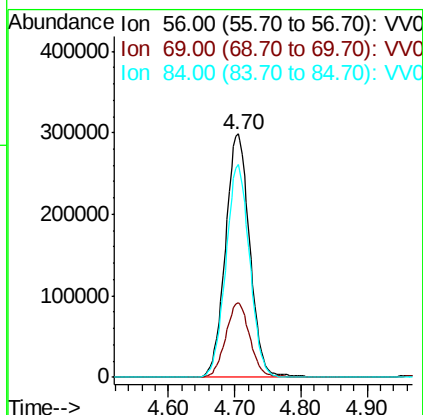
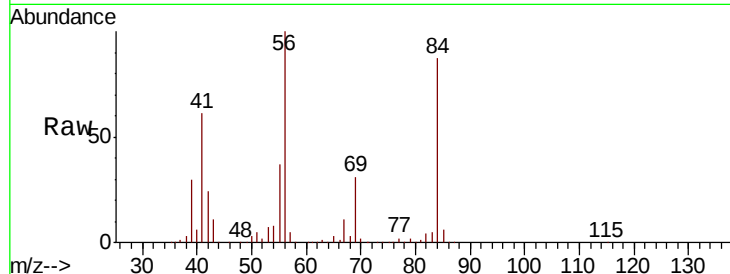




#29  
Cyclohexane  
Concen: 163.749 ug/L  
RT: 4.70 min Scan# 1124  
Delta R.T. 0.00 min  
Lab File: VV016537.D  
Acq: 05 Jun 2020 15:42

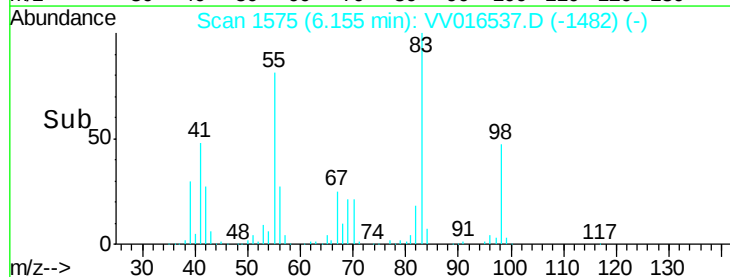
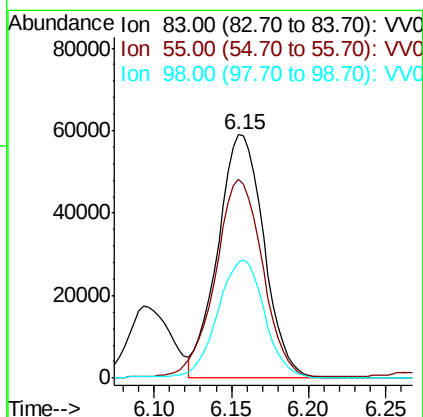
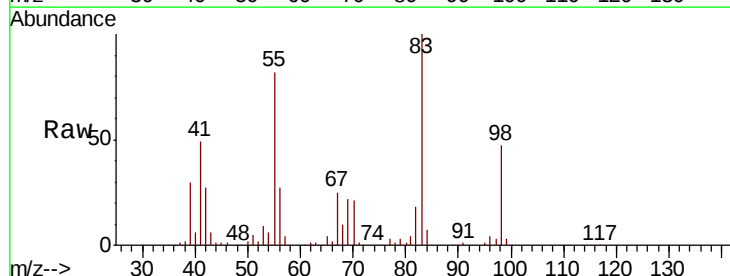
Instrument :  
MSVOA\_V  
ClientSampleId :

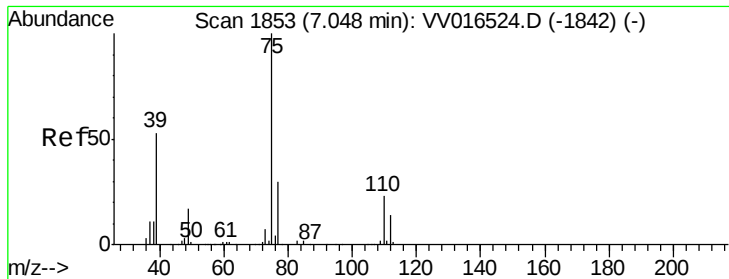
Tot Ion: 56 Resp: 758362  
Ion Ratio Lower Upper  
56 100  
69 30.5 23.9 35.9  
84 85.6 68.2 102.2



#35  
Methylcyclohexane  
Concen: 28.209 ug/L  
RT: 6.15 min Scan# 1575  
Delta R.T. 0.00 min  
Lab File: VV016537.D  
Acq: 05 Jun 2020 15:42

Tgt Ion: 83 Resp: 121926  
Ion Ratio Lower Upper  
83 100  
55 83.3 63.4 95.0  
98 49.5 39.4 59.0



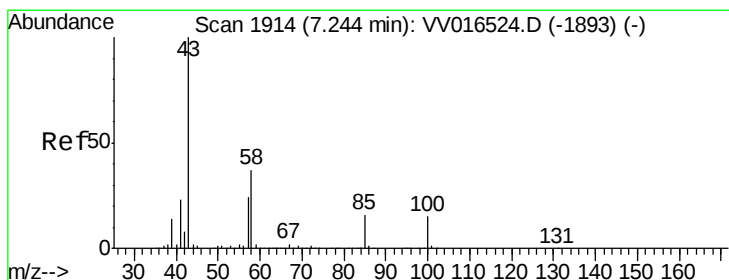
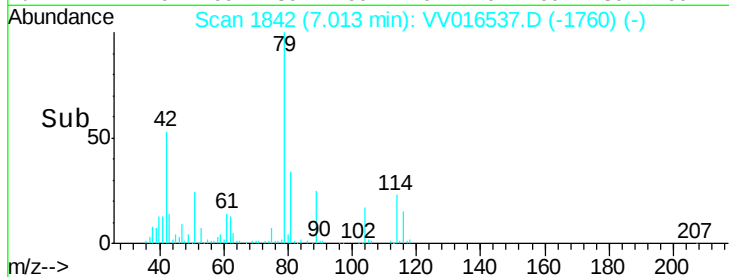
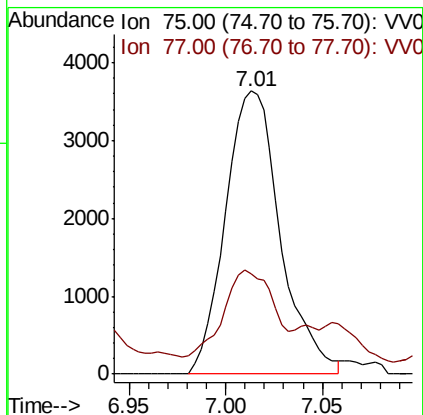
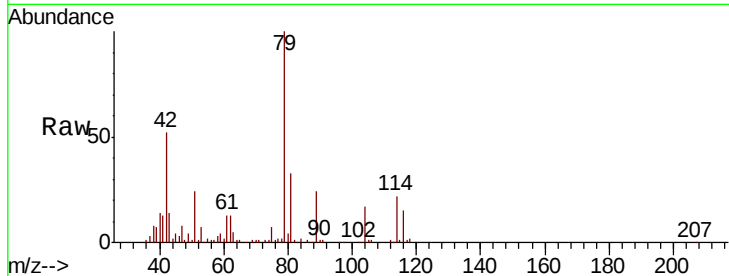


#39

cis-1,3-Dichloropropene  
 Concen: 1.652 ug/L  
 RT: 7.01 min Scan# 1842  
 Delta R.T. -0.04 min  
 Lab File: VV016537.D  
 Acq: 05 Jun 2020 15:42

Instrument :  
 MSVOA\_V  
 ClientSampleId :

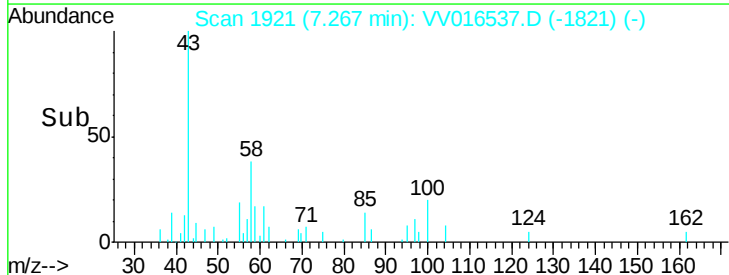
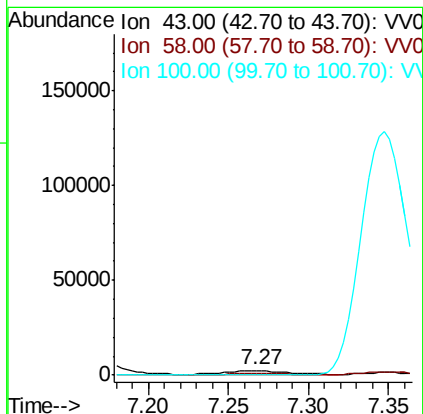
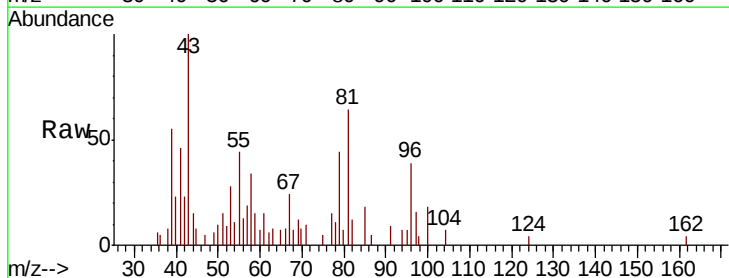
Tot Ion: 75 Resp: 7204  
 Ion Ratio Lower Upper  
 75 100  
 77 35.3 22.0 41.0

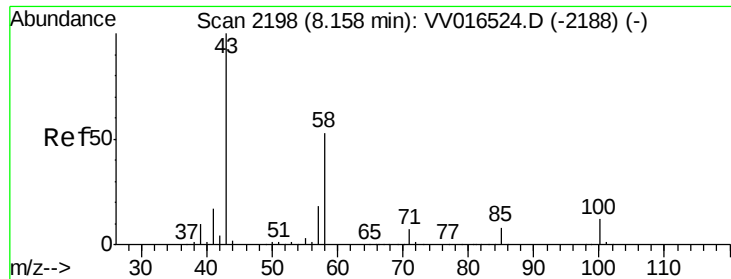


#40

4-Methyl-2-pentanone  
 Concen: 1.195 ug/L  
 RT: 7.27 min Scan# 1921  
 Delta R.T. 0.02 min  
 Lab File: VV016537.D  
 Acq: 05 Jun 2020 15:42

Tgt Ion: 43 Resp: 4919  
 Ion Ratio Lower Upper  
 43 100  
 58 30.1 29.9 44.9  
 100 5.8 11.9 17.9#

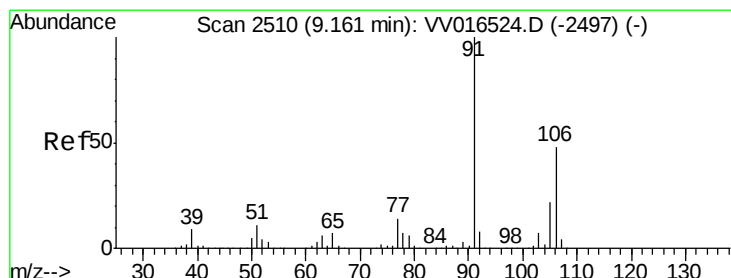
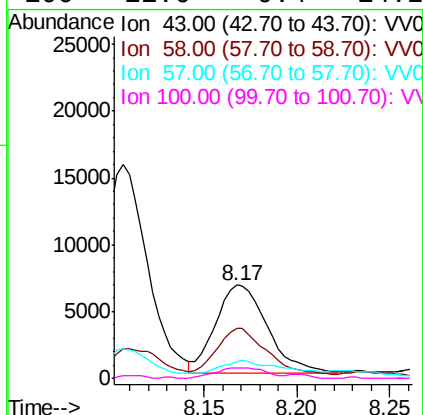
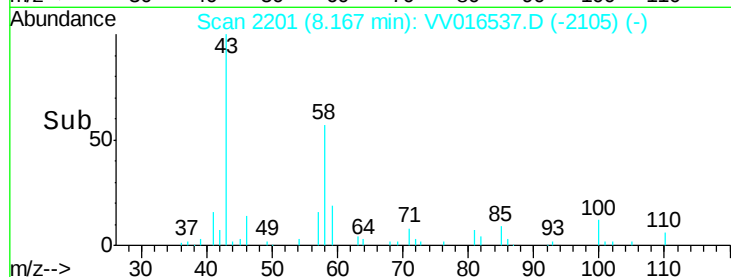
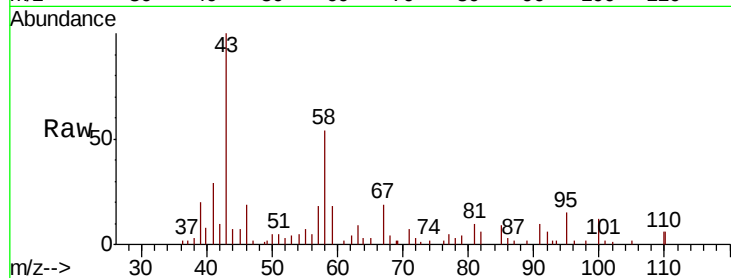




#48  
2-Hexanone  
Concen: 4.039 ug/L  
RT: 8.17 min Scan# 2201  
Delta R.T. 0.01 min  
Lab File: VV016537.D  
Acq: 05 Jun 2020 15:42

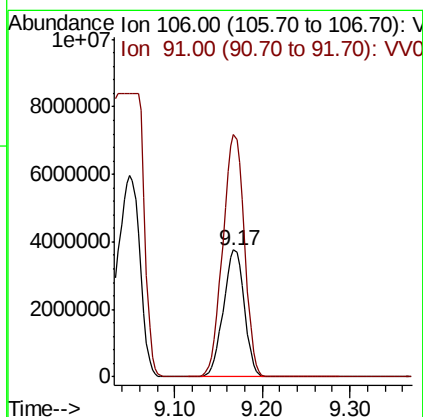
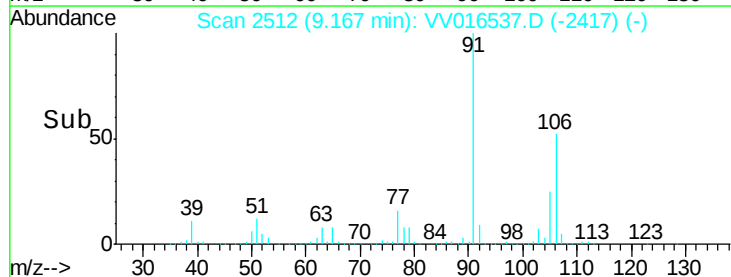
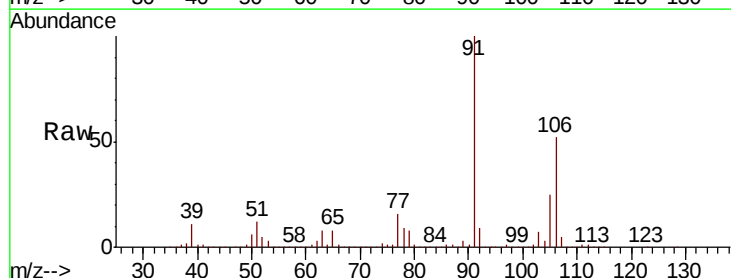
Instrument :  
MSVOA\_V  
ClientSampleId :

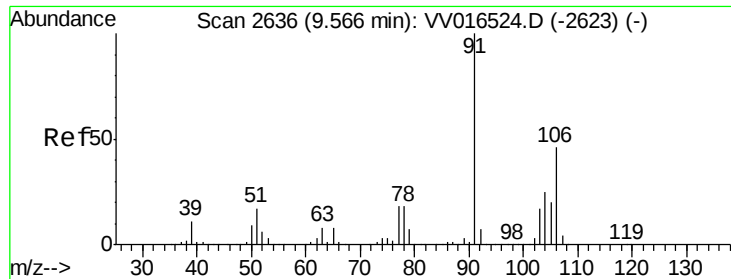
Tot Ion: 43 Resp: 12924  
Ion Ratio Lower Upper  
43 100  
58 58.9 42.7 64.1  
57 9.0 14.5 21.7#  
100 11.6 9.4 14.2



#53  
m,p-Xylene  
Concen: 1251.390 ug/L  
RT: 9.17 min Scan# 2512  
Delta R.T. 0.01 min  
Lab File: VV016537.D  
Acq: 05 Jun 2020 15:42

Tgt Ion: 106 Resp: 6245137  
Ion Ratio Lower Upper  
106 100  
91 191.3 142.5 264.6





#54

o-xylene

Concen: 1137.882 ug/L

RT: 9.57 min Scan# 2638

Delta R.T. 0.01 min

Lab File: VV016537.D

Acq: 05 Jun 2020 15:42

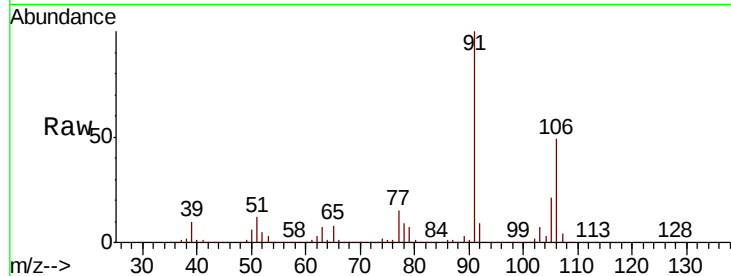
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:106 Resp: 5499717

Ion Ratio Lower Upper

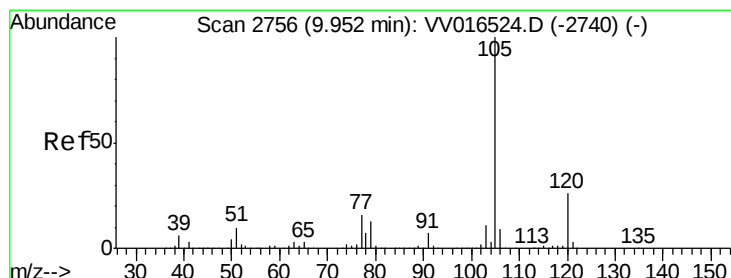
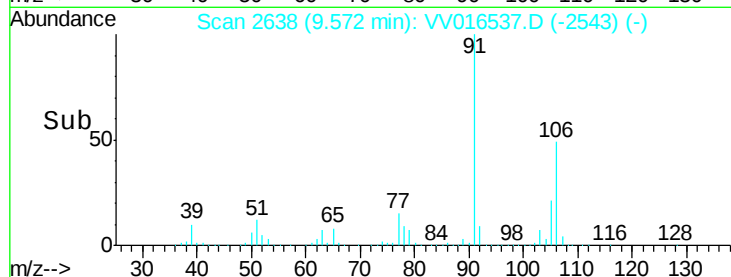
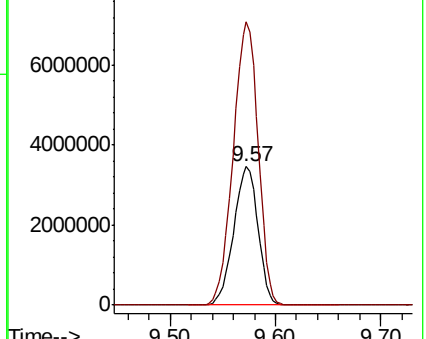
106 100

91 204.7 152.5 283.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Isopropylbenzene

Concen: 63.175 ug/L

RT: 9.96 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV016537.D

Acq: 05 Jun 2020 15:42

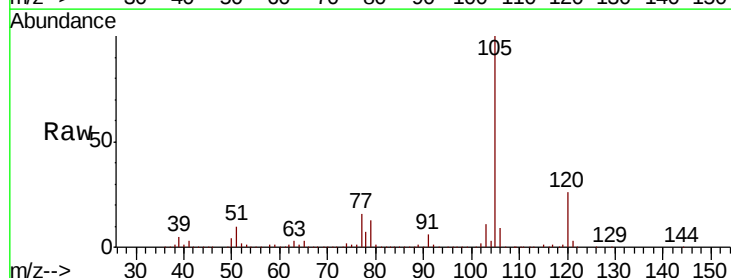
Tgt Ion:105 Resp: 793119

Ion Ratio Lower Upper

105 100

120 26.1 21.0 31.6

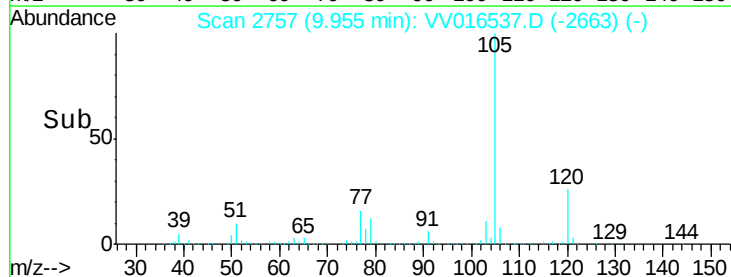
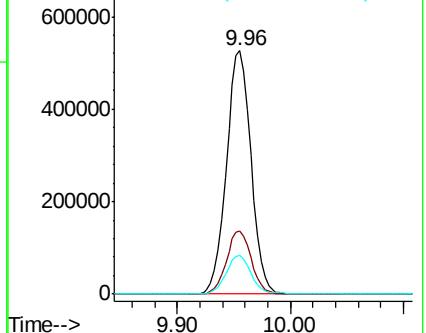
77 16.2 13.0 19.4

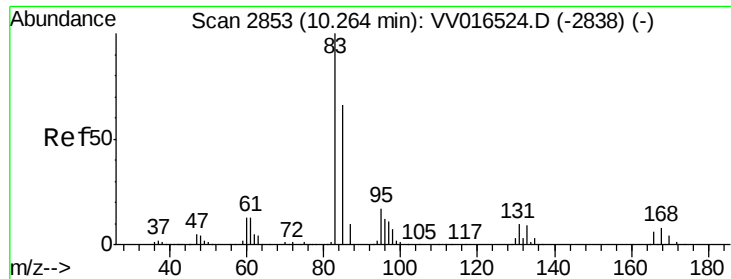


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#58

1,1,2,2-Tetrachloroethane

Concen: 3.016 ug/L

RT: 10.25 min Scan# 2848

Delta R.T. -0.02 min

Lab File: VV016537.D

Acq: 05 Jun 2020 15:42

Instrument :

MSVOA\_V

ClientSampled :

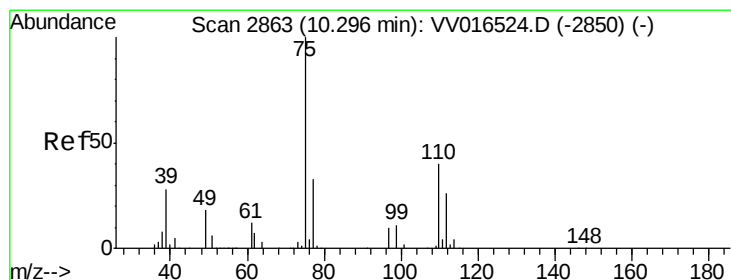
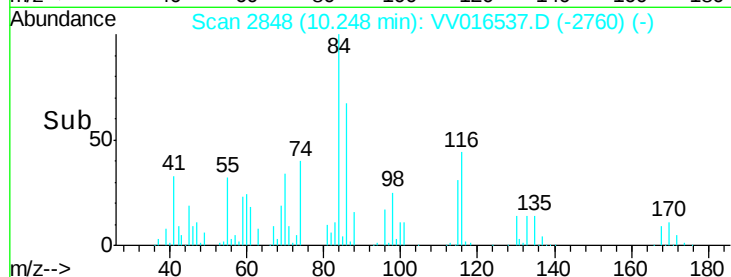
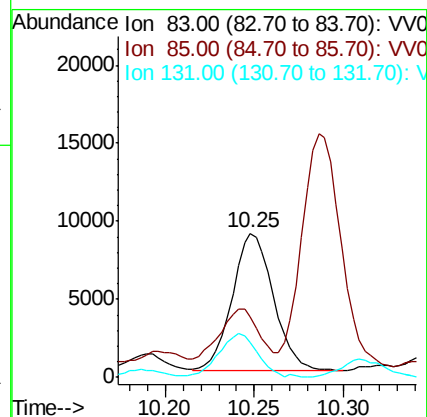
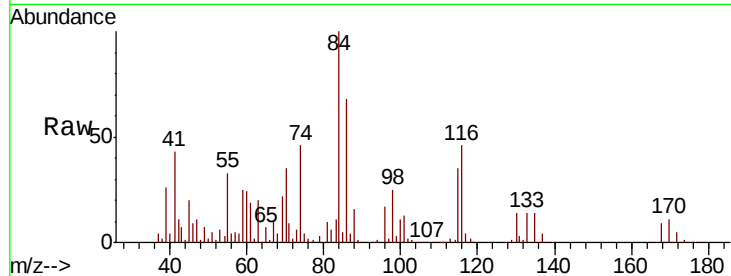
Tot Ion: 83 Resp: 13992

Ion Ratio Lower Upper

83 100

85 42.3 44.0 81.6#

131 24.1 7.6 11.4#



#59

1,2,3-Trichloropropane

Concen: 1.494 ug/L

RT: 10.25 min Scan# 2848

Delta R.T. -0.05 min

Lab File: VV016537.D

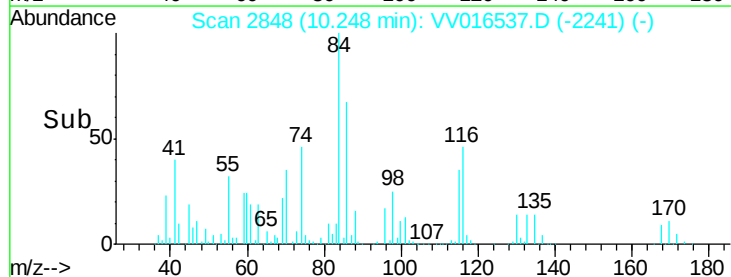
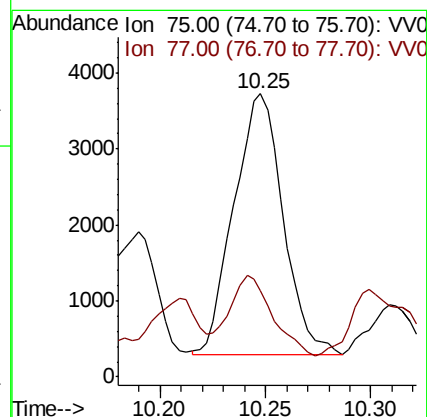
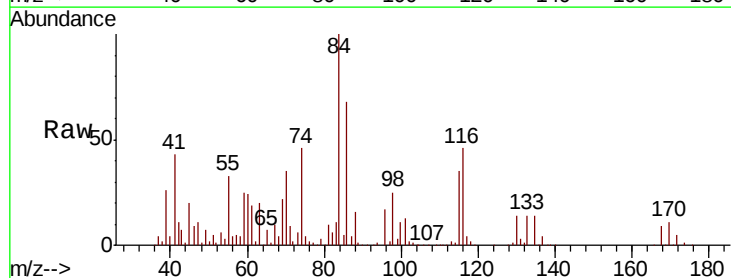
Acq: 05 Jun 2020 15:42

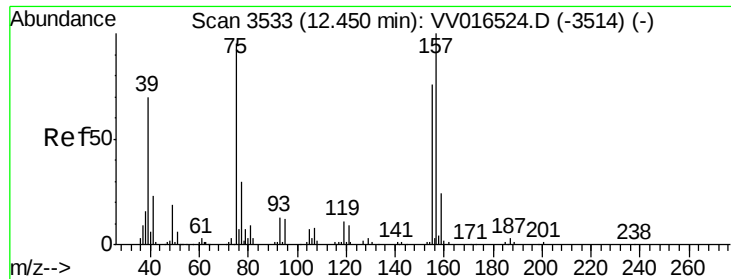
Tgt Ion: 75 Resp: 5576

Ion Ratio Lower Upper

75 100

77 27.5 26.6 40.0

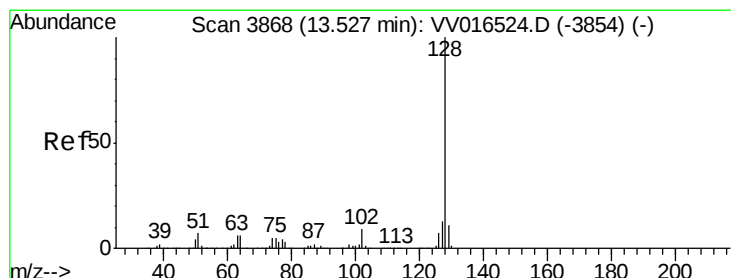
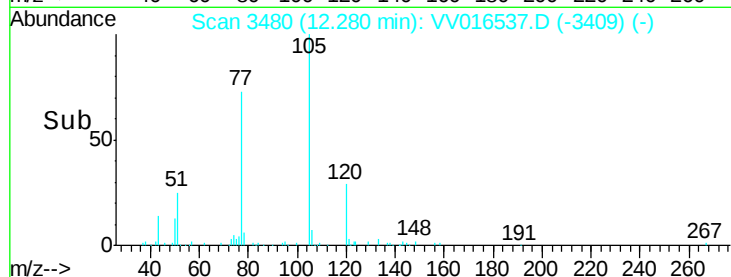
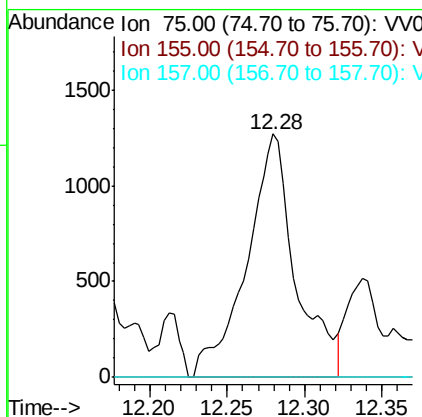
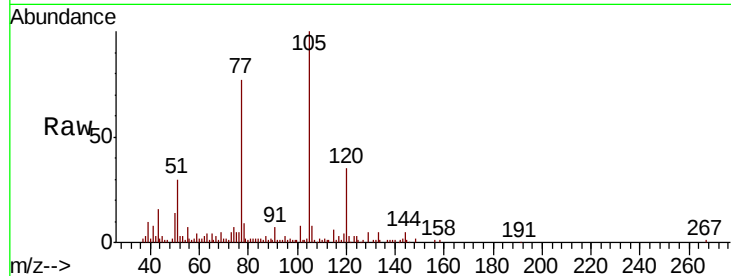




#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 2.978 ug/L  
 RT: 12.28 min Scan# 3480  
 Delta R.T. -0.17 min  
 Lab File: VV016537.D  
 Acq: 05 Jun 2020 15:42

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion: 75 Resp: 2801  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 66.2 99.2#  
 157 0.0 83.0 124.4#



#69  
 Naphthalene  
 Concen: 221.035 ug/L  
 RT: 13.53 min Scan# 3868  
 Delta R.T. 0.00 min  
 Lab File: VV016537.D  
 Acq: 05 Jun 2020 15:42

Tgt Ion: 128 Resp: 2601645  
 Ion Ratio Lower Upper  
 128 100  
 127 13.2 10.2 15.4  
 129 10.9 8.7 13.1

