

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV012120\  
 Data File : VV014366.D  
 Acq On : 21 Jan 2020 11:34  
 Operator : SY/MD  
 Sample : L1194-02RE  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AC1

Quant Time: Jan 21 15:51:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR010220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jan 21 15:31:21 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 792232   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 719068   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 333839   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 9735     | 0.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 3.60%#  |
| 7) Chloroethane-d5             | 1.58   | 69    | 199849   | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 93.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 155349   | 1.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 38.00%# |
| 20) 2-Butanone-d5              | 3.95   | 46    | 648491   | 48.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 97.40%  |
| 24) Chloroform-d               | 4.39   | 84    | 514624   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 246177   | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.80%  |
| 32) Benzene-d6                 | 5.09   | 84    | 1008007  | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.11   | 67    | 325226   | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.80%  |
| 41) Toluene-d8                 | 7.35   | 98    | 347939   | 1.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 35.40%# |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 80851    | 2.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 55.00%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 526018   | 42.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 84.44%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.25  | 84    | 223458   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 302348   | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.40%  |

## Target Compounds

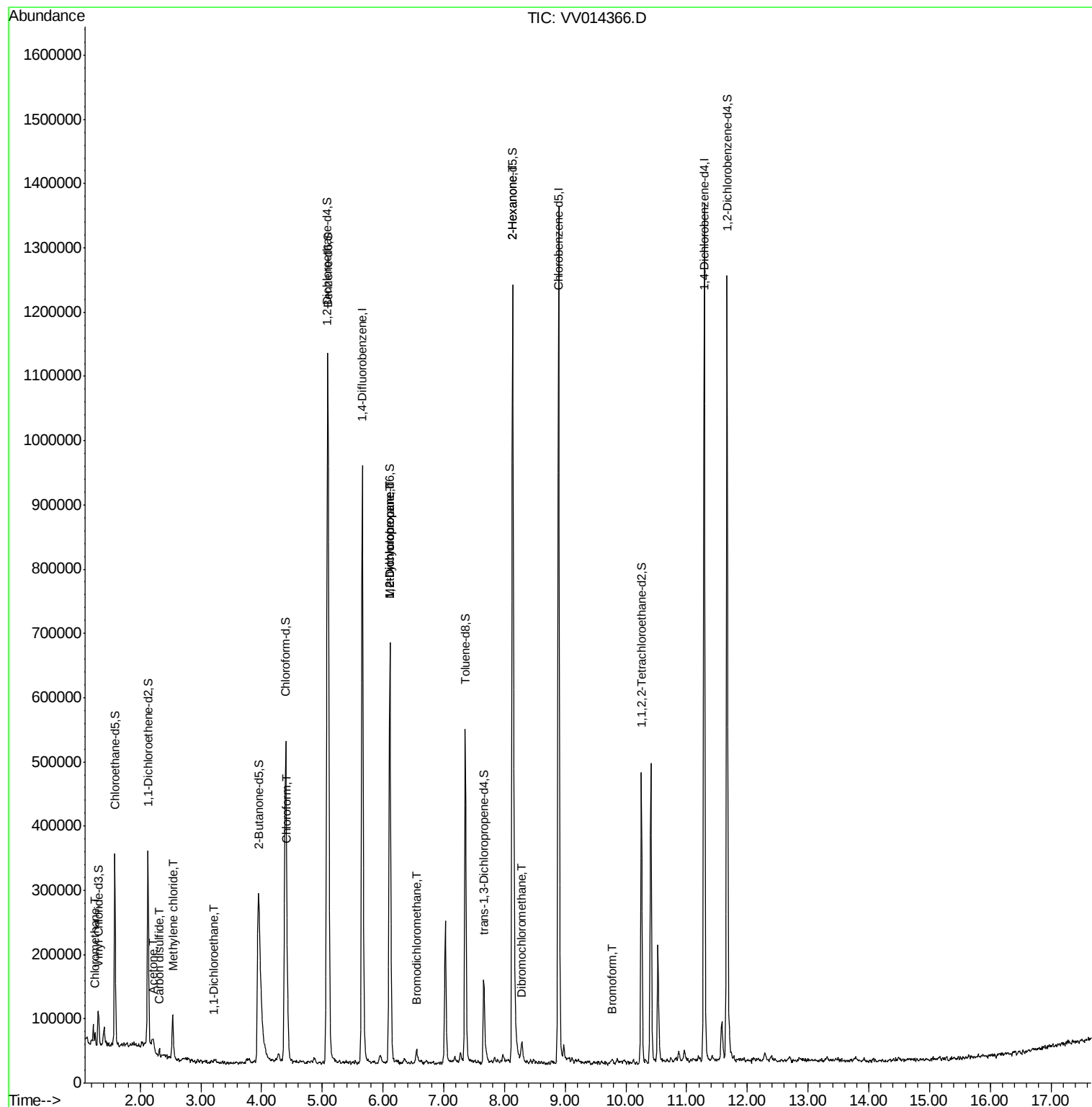
|                          |      |     |       |      |        | Qvalue |
|--------------------------|------|-----|-------|------|--------|--------|
| 3) Chloromethane         | 1.25 | 50  | 14175 | 0.24 | ug/L   | 96     |
| 13) Acetone              | 2.22 | 43  | 32190 | 3.51 | ug/L   | 88     |
| 14) Carbon disulfide     | 2.32 | 76  | 15754 | 0.10 | ug/L # | 93     |
| 16) Methylene chloride   | 2.54 | 84  | 26408 | 0.46 | ug/L   | 94     |
| 19) 1,1-Dichloroethane   | 3.23 | 63  | 6464  | 0.06 | ug/L # | 89     |
| 25) Chloroform           | 4.42 | 83  | 60520 | 0.61 | ug/L   | 98     |
| 35) Methylcyclohexane    | 6.11 | 83  | 77341 | 0.83 | ug/L # | 20     |
| 37) 1,2-Dichloropropane  | 6.11 | 63  | 35069 | 0.63 | ug/L # | 88     |
| 38) Bromodichloromethane | 6.55 | 83  | 14868 | 0.21 | ug/L # | 94     |
| 48) 2-Hexanone           | 8.14 | 43  | 63743 | 2.62 | ug/L # | 68     |
| 49) Dibromochloromethane | 8.28 | 129 | 10688 | 0.24 | ug/L   | 88     |
| 61) Bromoform            | 9.77 | 173 | 3068  | 0.14 | ug/L # | 90     |

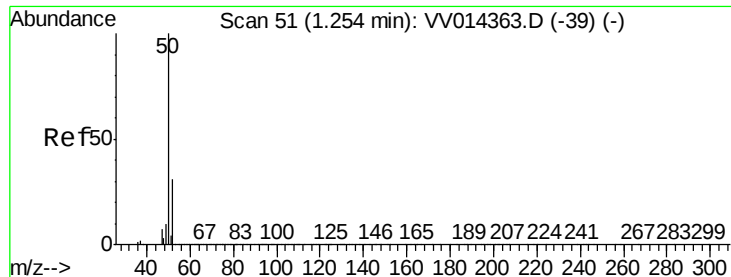
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV012120\  
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Sample : L1194-02RE  
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ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
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Quant Time: Jan 21 15:51:05 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR010220WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Jan 21 15:31:21 2020  
Response via : Initial Calibration

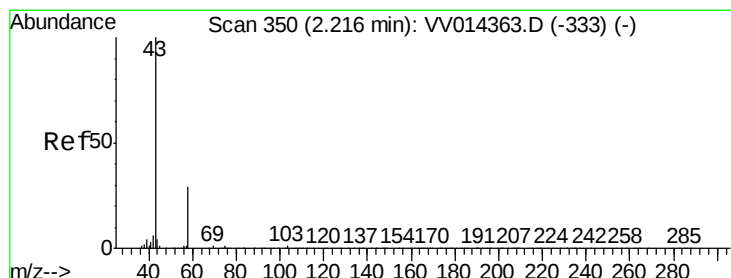
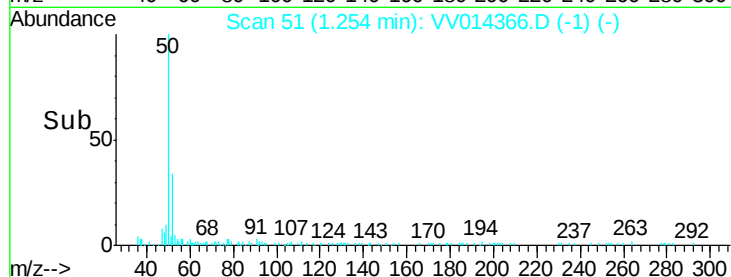
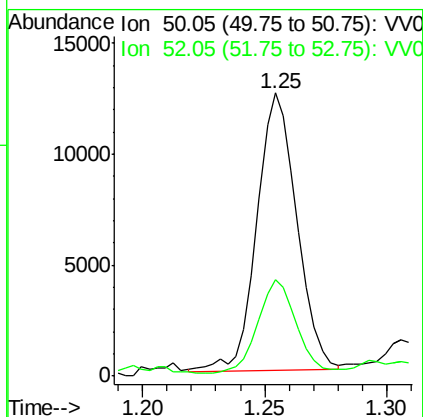
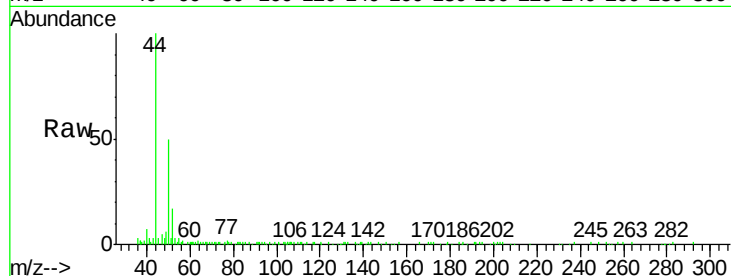




#3  
Chloromethane  
Concen: 0.24 ug/L  
RT: 1.25 min Scan# 51  
Delta R.T. -0.00 min  
Lab File: VV014366.D  
Acq: 21 Jan 2020 11:34

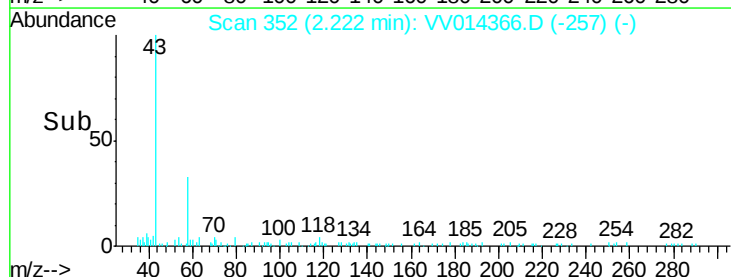
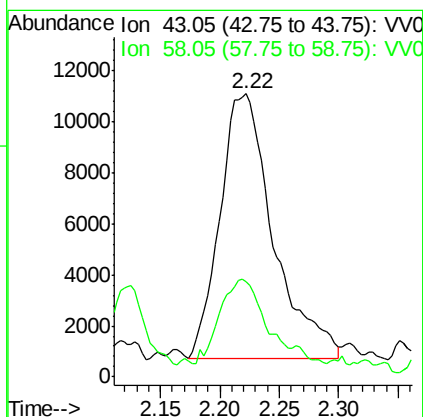
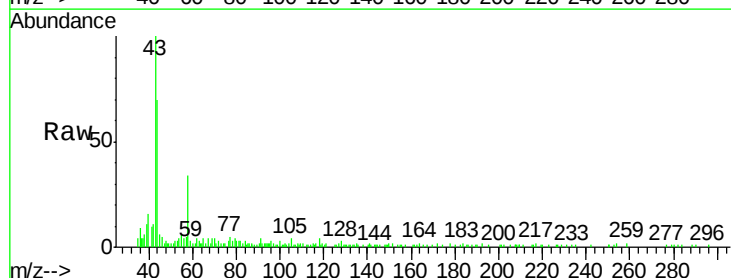
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AC1

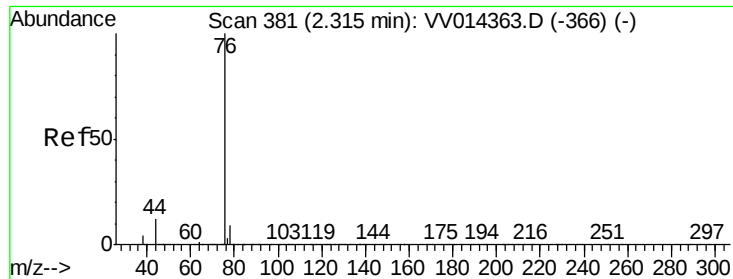
Tgt Ion: 50 Resp: 14175  
Ion Ratio Lower Upper  
50 100  
52 33.9 22.3 41.3



#13  
Acetone  
Concen: 3.51 ug/L  
RT: 2.22 min Scan# 352  
Delta R.T. 0.01 min  
Lab File: VV014366.D  
Acq: 21 Jan 2020 11:34

Tgt Ion: 43 Resp: 32190  
Ion Ratio Lower Upper  
43 100  
58 26.4 0.0 66.0





#14

Carbon disulfide

Concen: 0.10 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV014366.D

Acq: 21 Jan 2020 11:34

Instrument :

MSVOA\_V

ClientSampleId :

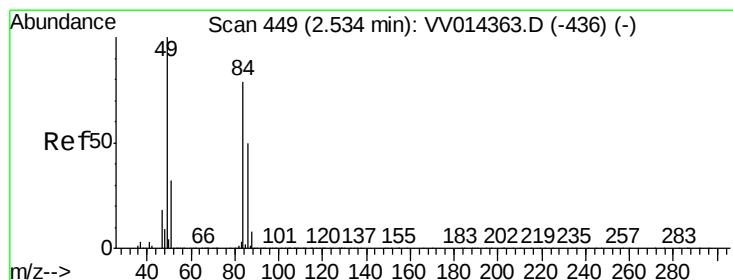
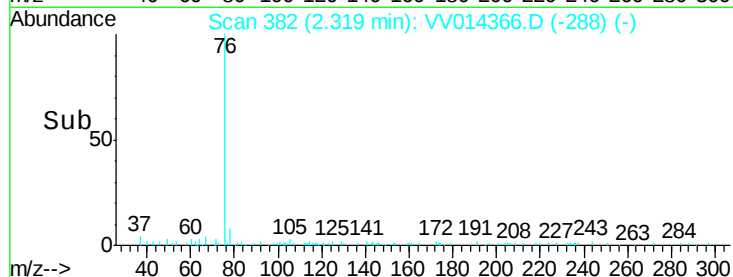
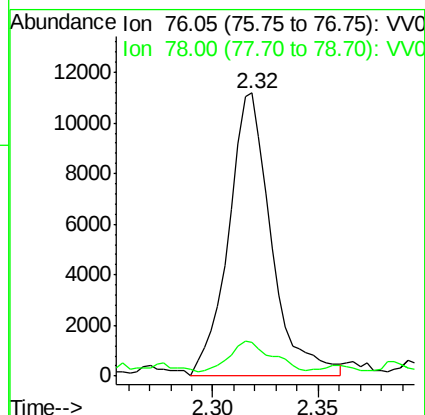
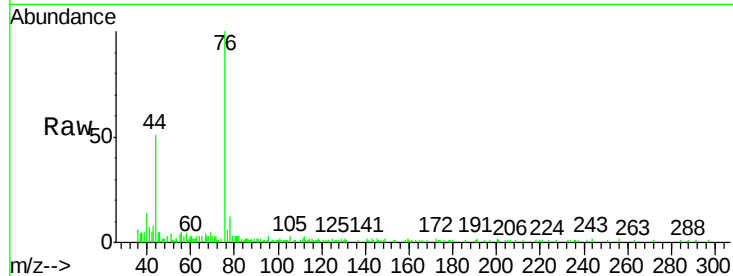
C0AC1

Tgt Ion: 76 Resp: 15754

Ion Ratio Lower Upper

76 100

78 12.0 7.5 11.3#



#16

Methylene chloride

Concen: 0.46 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV014366.D

Acq: 21 Jan 2020 11:34

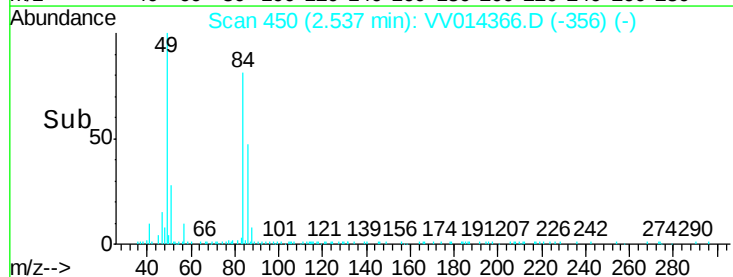
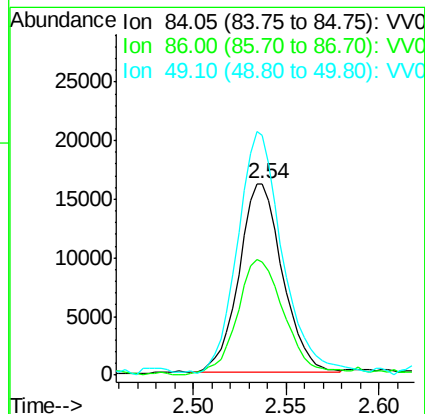
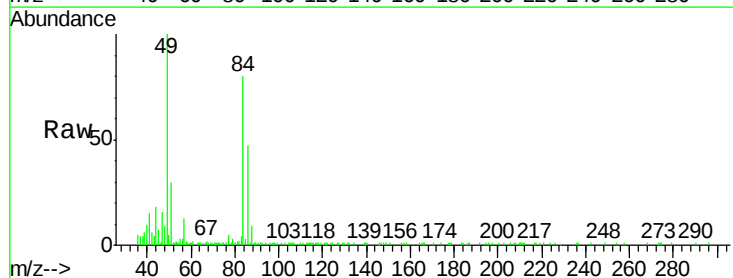
Tgt Ion: 84 Resp: 26408

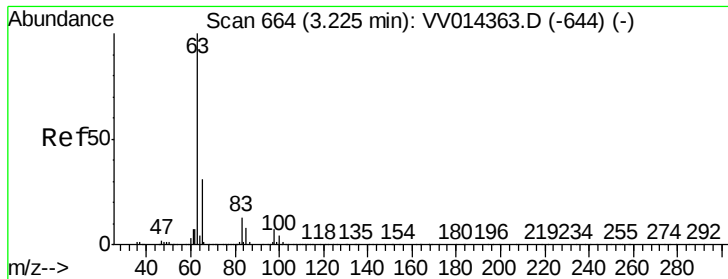
Ion Ratio Lower Upper

84 100

86 58.8 43.1 80.1

49 124.9 82.1 152.5

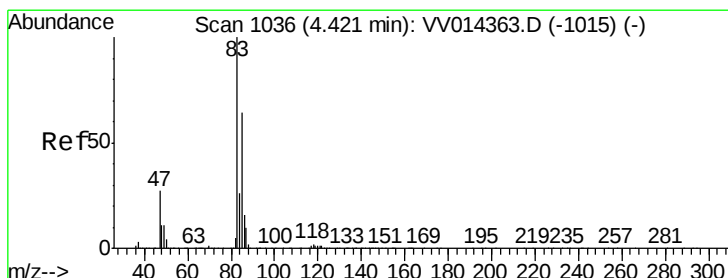
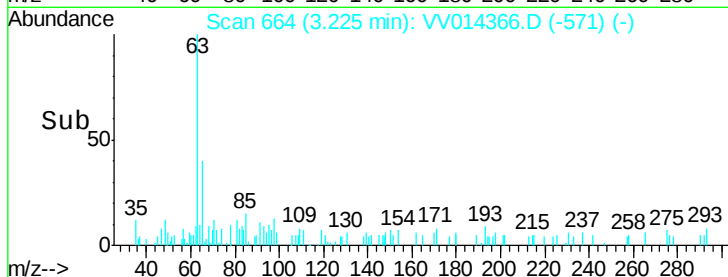
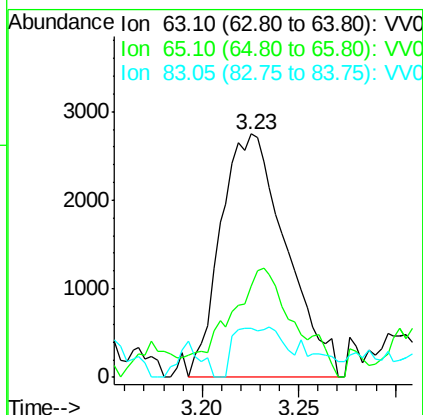
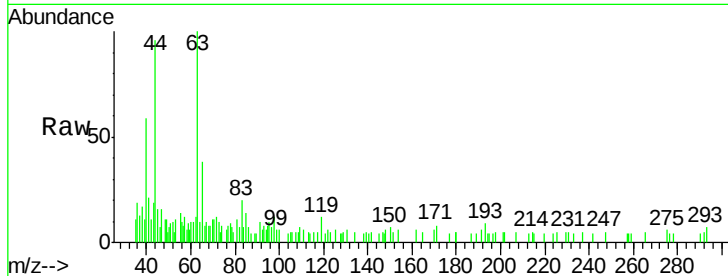




#19  
 1,1-Dichloroethane  
 Concen: 0.06 ug/L  
 RT: 3.23 min Scan# 664  
 Delta R.T. -0.00 min  
 Lab File: VV014366.D  
 Acq: 21 Jan 2020 11:34

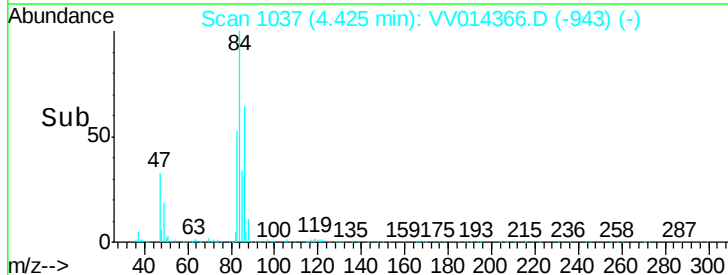
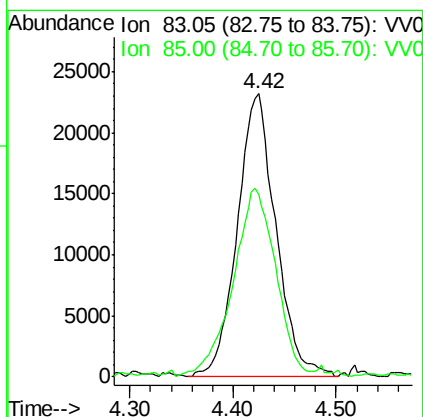
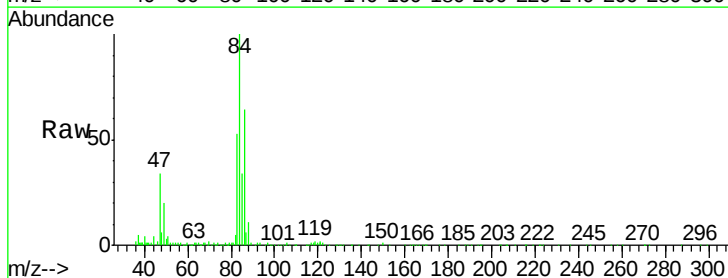
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AC1

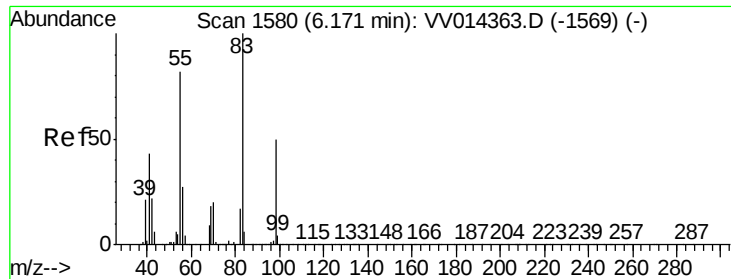
Tgt Ion: 63 Resp: 6464  
 Ion Ratio Lower Upper  
 63 100  
 65 37.7 22.7 42.3  
 83 20.0 10.0 18.6#



#25  
 Chloroform  
 Concen: 0.61 ug/L  
 RT: 4.42 min Scan# 1037  
 Delta R.T. 0.00 min  
 Lab File: VV014366.D  
 Acq: 21 Jan 2020 11:34

Tgt Ion: 83 Resp: 60520  
 Ion Ratio Lower Upper  
 83 100  
 85 64.4 46.2 85.8

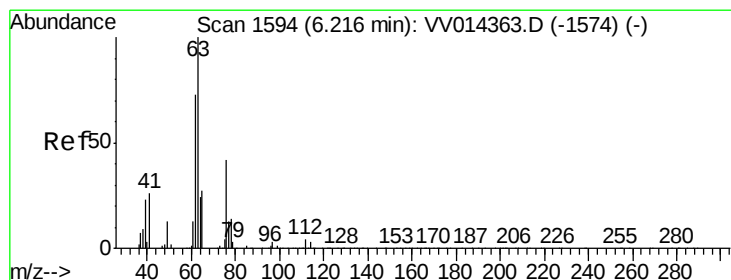
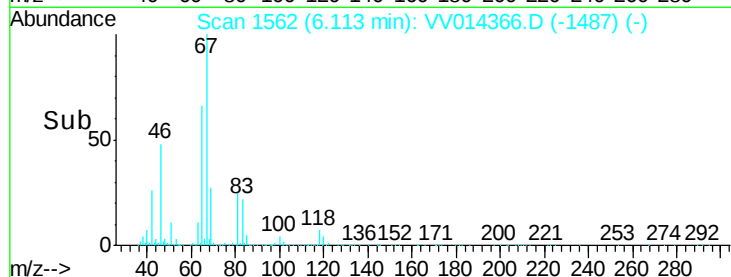
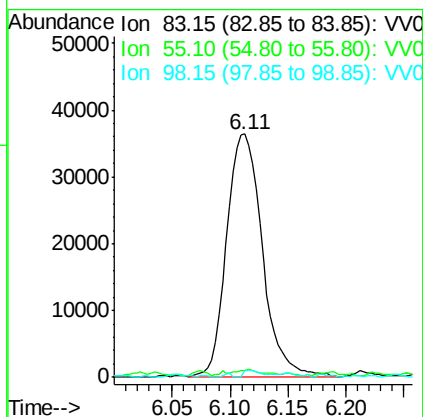
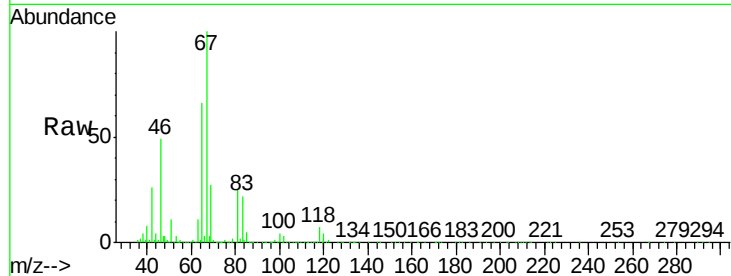




#35  
Methylcyclohexane  
Concen: 0.83 ug/L  
RT: 6.11 min Scan# 1562  
Delta R.T. -0.06 min  
Lab File: VV014366.D  
Acq: 21 Jan 2020 11:34

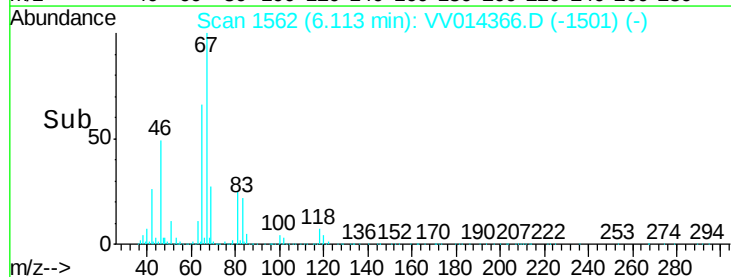
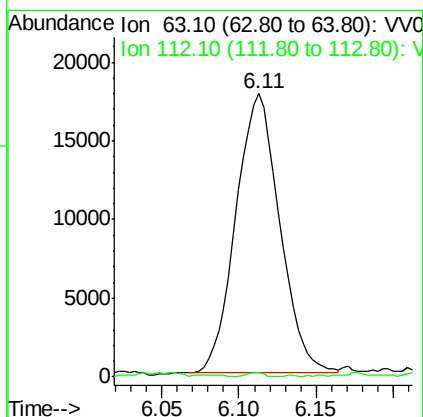
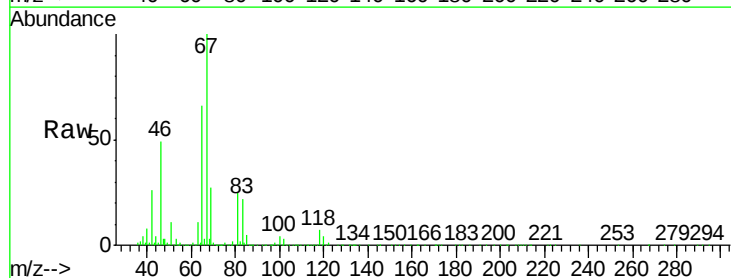
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AC1

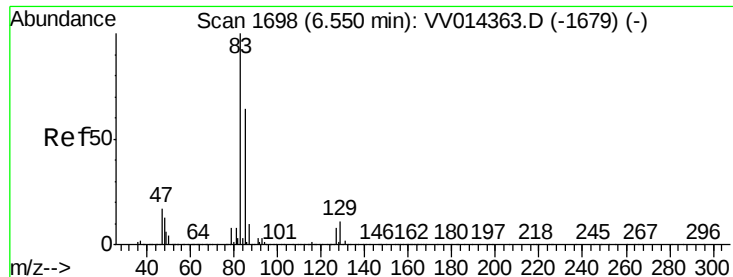
Tgt Ion: 83 Resp: 77341  
Ion Ratio Lower Upper  
83 100  
55 1.2 61.7 92.5#  
98 1.7 38.1 57.1#



#37  
1,2-Dichloropropane  
Concen: 0.63 ug/L  
RT: 6.11 min Scan# 1562  
Delta R.T. -0.10 min  
Lab File: VV014366.D  
Acq: 21 Jan 2020 11:34

Tgt Ion: 63 Resp: 35069  
Ion Ratio Lower Upper  
63 100  
112 0.6 3.7 5.5#





#38

Bromodichloromethane

Concen: 0.21 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV014366.D

Acq: 21 Jan 2020 11:34

Instrument :

MSVOA\_V

ClientSampleId :

C0AC1

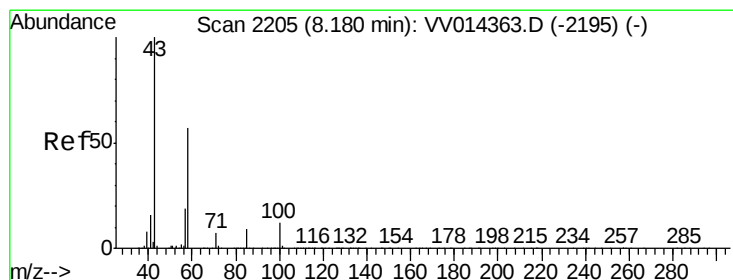
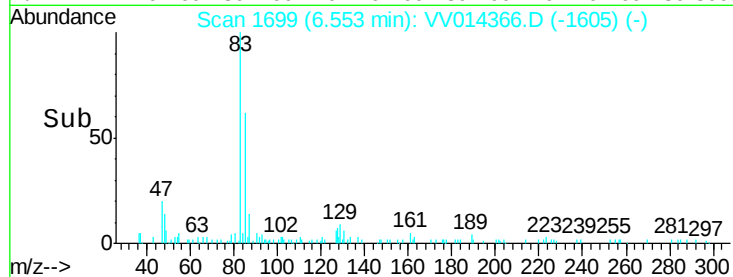
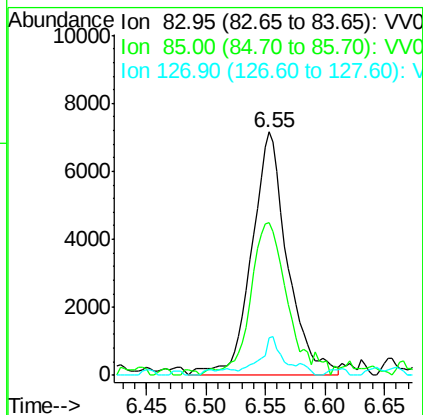
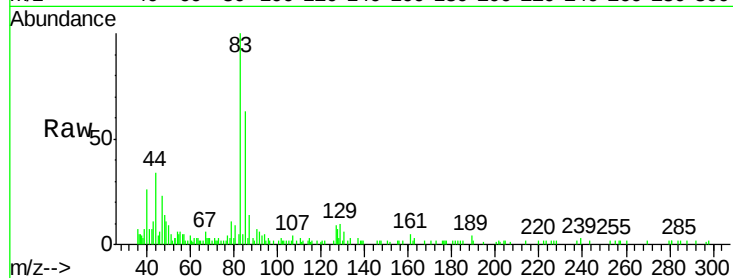
Tgt Ion: 83 Resp: 14868

Ion Ratio Lower Upper

83 100

85 62.9 46.4 86.2

127 15.4 6.3 9.5#



#48

2-Hexanone

Concen: 2.62 ug/L

RT: 8.14 min Scan# 2191

Delta R.T. -0.05 min

Lab File: VV014366.D

Acq: 21 Jan 2020 11:34

Tgt Ion: 43 Resp: 63743

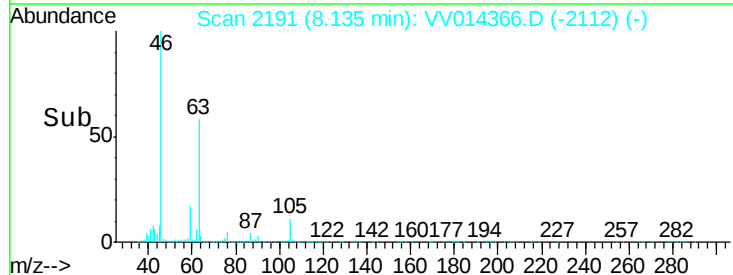
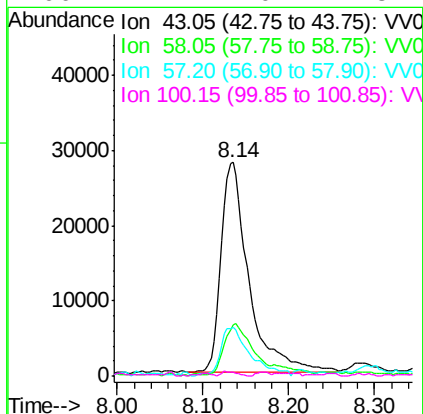
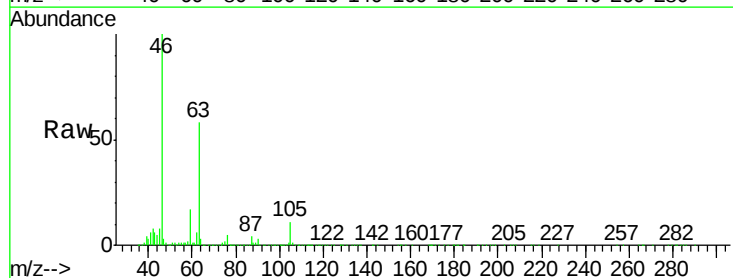
Ion Ratio Lower Upper

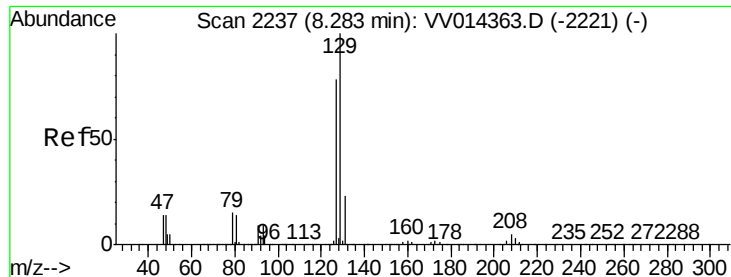
43 100

58 27.2 45.4 68.0#

57 24.3 15.8 23.8#

100 1.1 10.2 15.4#





#49

Dibromochloromethane

Concen: 0.24 ug/L

RT: 8.28 min Scan# 2237

Delta R.T. -0.00 min

Lab File: VV014366.D

Acq: 21 Jan 2020 11:34

Instrument :

MSVOA\_V

ClientSampleId :

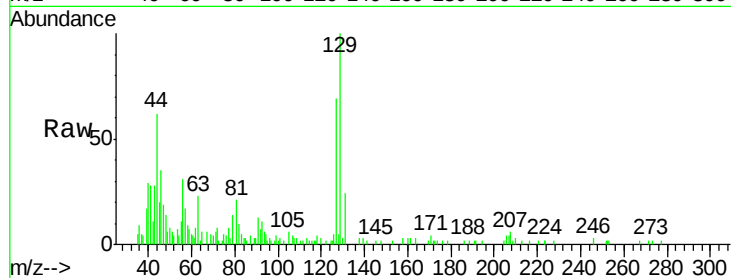
C0AC1

Tgt Ion:129 Resp: 10688

Ion Ratio Lower Upper

129 100

127 69.1 55.7 103.5



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.28

6000

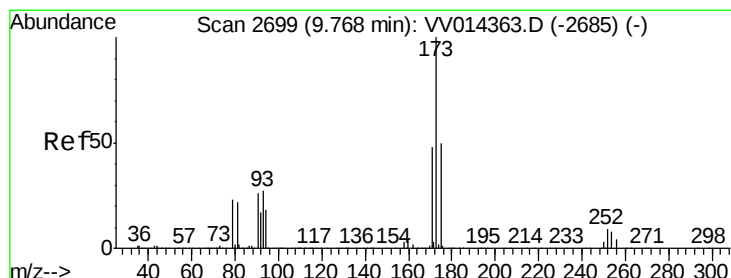
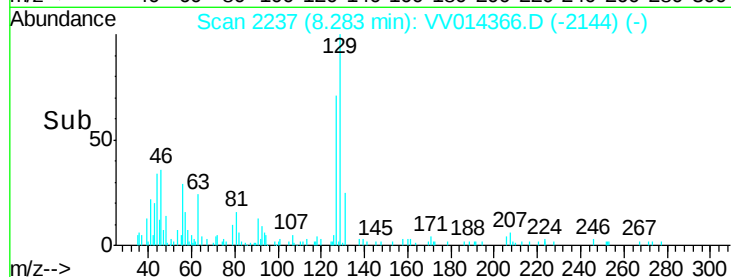
4000

2000

0

8.25 8.30 8.35

Time-->



#61

Bromoform

Concen: 0.14 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV014366.D

Acq: 21 Jan 2020 11:34

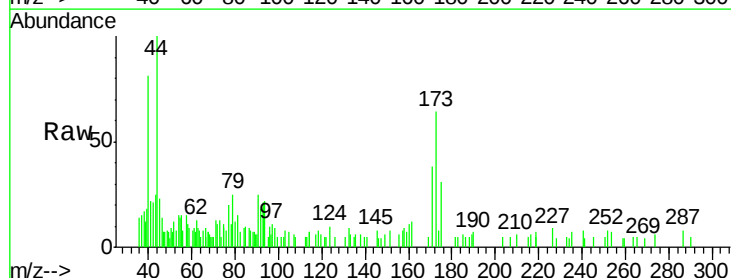
Tgt Ion:173 Resp: 3068

Ion Ratio Lower Upper

173 100

175 40.4 37.9 56.9

254 11.7 7.6 11.4#



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V

2000

1500

1000

500

0

9.70 9.75 9.80

Time-->

