

Data File : VV012295.D  
Acq On : 19 Aug 2019 23:36  
Operator : SY/MD  
Sample : K4373-14  
Misc : 25mL/MSVOA\_V/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AD2

Quant Time: Aug 20 02:40:24 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR081919WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Aug 20 02:35:23 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 241722   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 218489   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 114006   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 76692    | 6.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 124.20% |
| 7) Chloroethane-d5             | 1.58   | 69    | 57596    | 6.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 127.60% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 84219    | 3.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 71.80%  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 158264   | 47.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 95.06%  |
| 24) Chloroform-d               | 4.40   | 84    | 151296   | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 72934    | 4.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 84.80%  |
| 32) Benzene-d6                 | 5.09   | 84    | 320176   | 5.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 110.80% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 92406    | 5.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 113.00% |
| 41) Toluene-d8                 | 7.36   | 98    | 281560   | 5.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 104.60% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 32327    | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 92.20%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 137491   | 62.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 124.16% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 63913    | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 103.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 97874    | 4.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 85.40%  |

#### Target Compounds

|                                |      |     |         |              | Qvalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 3) Chloromethane               | 1.25 | 50  | 1897    | 0.126 ug/L   | 100    |
| 6) Bromomethane                | 1.54 | 94  | 1004    | 0.123 ug/L # | 68     |
| 8) Chloroethane                | 1.54 | 64  | 53399   | 6.742 ug/L # | 49     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 885     | 0.072 ug/L # | 14     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 778     | 0.070 ug/L # | 1      |
| 13) Acetone                    | 2.47 | 43  | 8154    | 4.681 ug/L   | 72     |
| 15) Methyl Acetate             | 2.47 | 43  | 8154    | 2.360 ug/L   | 90     |
| 27) 1,2-Dichloroethane         | 5.14 | 62  | 30236   | 1.522 ug/L # | 74     |
| 33) Benzene                    | 5.14 | 78  | 3548451 | 58.715 ug/L  | 100    |
| 37) 1,2-Dichloropropane        | 6.11 | 63  | 9961    | 0.704 ug/L # | 81     |
| 39) cis-1,3-Dichloropropene    | 7.03 | 75  | 2438    | 0.109 ug/L   | 85     |
| 42) Toluene                    | 7.43 | 91  | 6199885 | 92.684 ug/L  | 99     |
| 44) trans-1,3-Dichloropropene  | 7.66 | 75  | 1496    | 0.083 ug/L # | 56     |
| 45) 1,1,2-Trichloroethane      | 7.74 | 97  | 42642   | 3.931 ug/L # | 20     |
| 48) 2-Hexanone                 | 8.14 | 43  | 20330   | 3.804 ug/L # | 70     |
| 51) Chlorobenzene              | 8.92 | 112 | 3818    | 0.084 ug/L   | 98     |
| 52) Ethylbenzene               | 9.05 | 91  | 4348855 | 58.106 ug/L  | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV081919\  
Quantitation Report (Not Reviewed)

Data File : VV012295.D  
Acq On : 19 Aug 2019 23:36  
Operator : SY/MD  
Sample : K4373-14  
Misc : 25mL/MSVOA\_V/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AD2

Quant Time: Aug 20 02:40:24 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR081919WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Aug 20 02:35:23 2019  
Response via : Initial Calibration

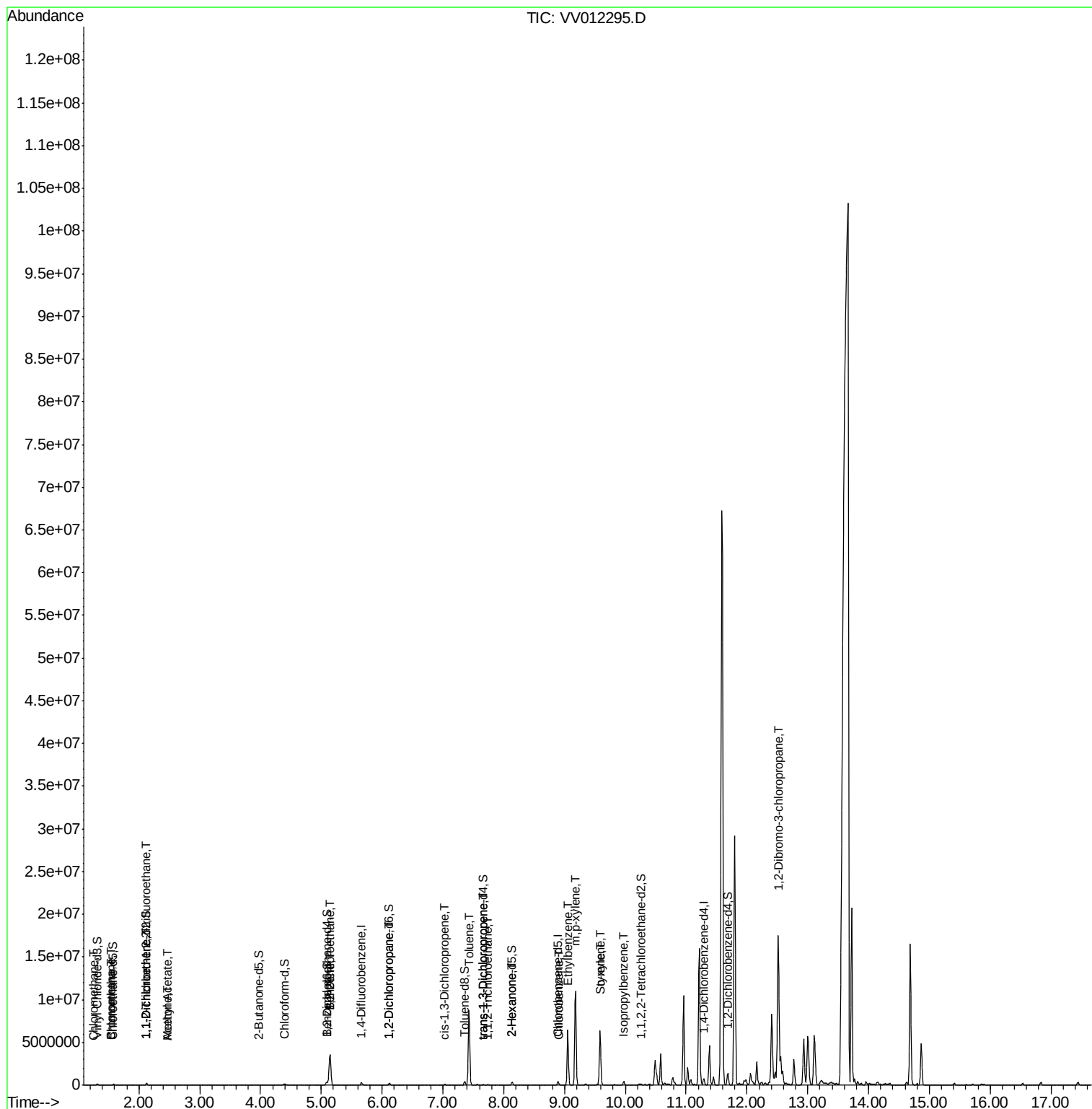
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 53) m,p-xylene                 | 9.18  | 106  | 3145863  | 107.667 | ug/L   | 98       |
| 54) o-xylene                   | 9.59  | 106  | 1652180  | 58.792  | ug/L   | 97       |
| 55) Styrene                    | 9.60  | 104  | 319327   | 6.727   | ug/L # | 71       |
| 56) Isopropylbenzene           | 9.97  | 105  | 276186   | 3.561   | ug/L   | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.51 | 75   | 344000   | 185.953 | ug/L # | 1        |

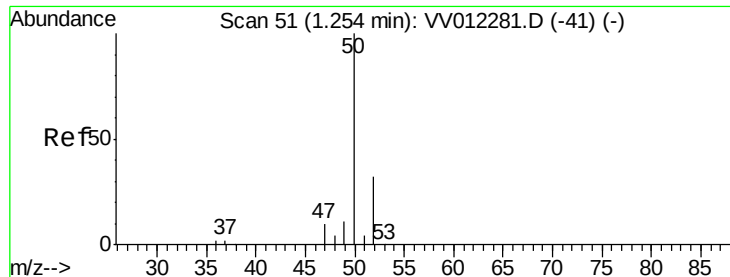
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VV012295.D  
Acq On : 19 Aug 2019 23:36  
Operator : SY/MD  
Sample : K4373-14  
Misc : 25mL/MSVOA\_V/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AD2

Quant Time: Aug 20 02:40:24 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR081919WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Aug 20 02:35:23 2019  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.126 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV012295.D

Acq: 19 Aug 2019 23:36

Instrument :

MSVOA\_V

ClientSampleId :

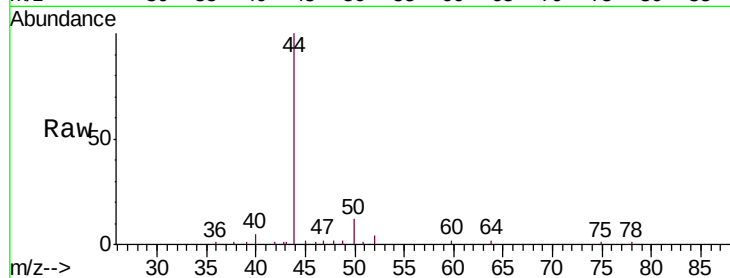
C0AD2

Tgt Ion: 50 Resp: 1897

Ion Ratio Lower Upper

50 100

52 32.4 22.6 42.0



Abundance Ion 50.05 (49.75 to 50.75): VV012281.D (-41) (-)

Ion 52.05 (51.75 to 52.75): VV012281.D (-41) (-)

1.25

2000

1500

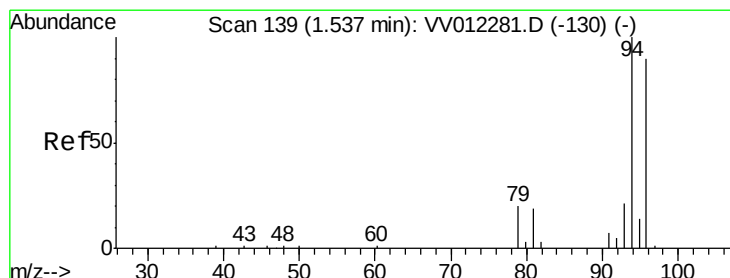
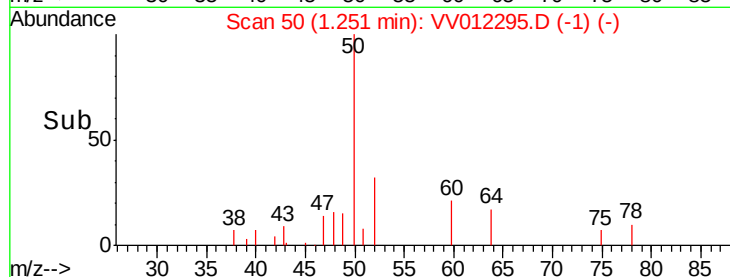
1000

500

0

1.22 1.24 1.26 1.28

Time-->



#6

Bromomethane

Concen: 0.123 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV012295.D

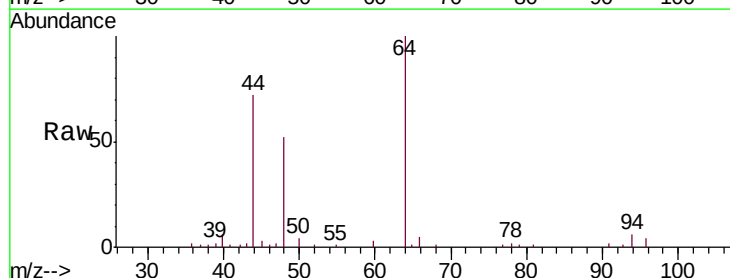
Acq: 19 Aug 2019 23:36

Tgt Ion: 94 Resp: 1004

Ion Ratio Lower Upper

94 100

96 65.1 67.3 125.1#



Abundance Ion 94.00 (93.70 to 94.70): VV012281.D (-130) (-)

Ion 96.00 (95.70 to 96.70): VV012281.D (-130) (-)

1.54

800

600

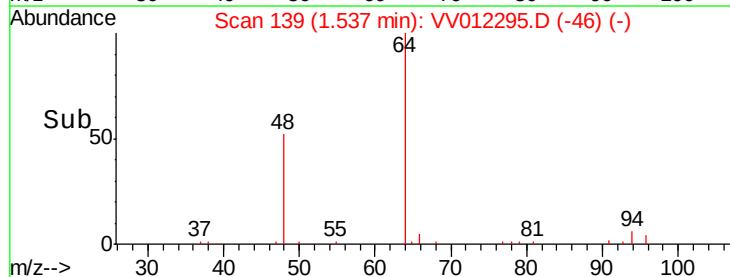
400

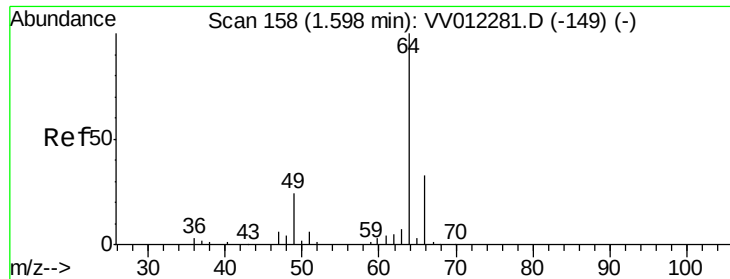
200

0

1.50 1.52 1.54 1.56 1.58

Time-->

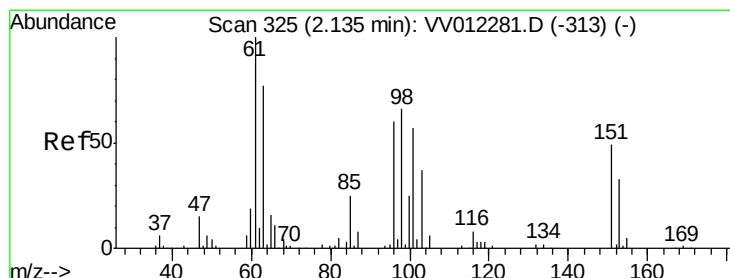
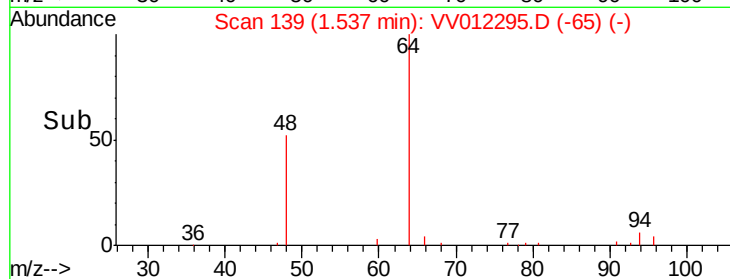
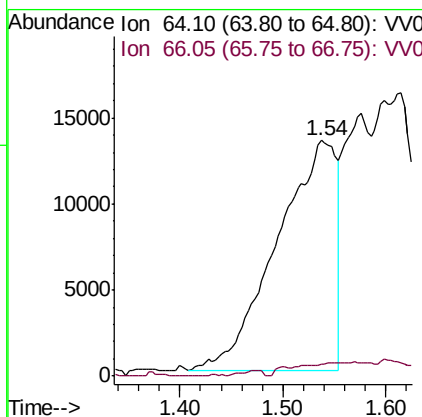
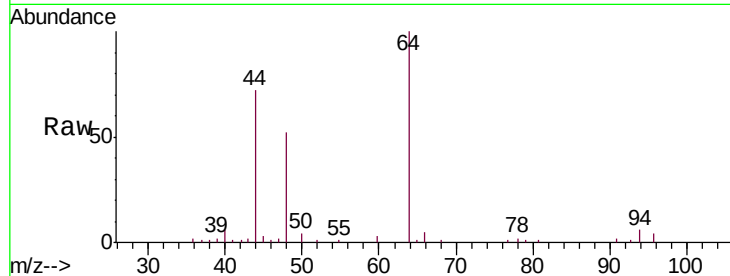




#8  
 Chloroethane  
 Concen: 6.742 ug/L  
 RT: 1.54 min Scan# 139  
 Delta R.T. -0.06 min  
 Lab File: VV012295.D  
 Acq: 19 Aug 2019 23:36

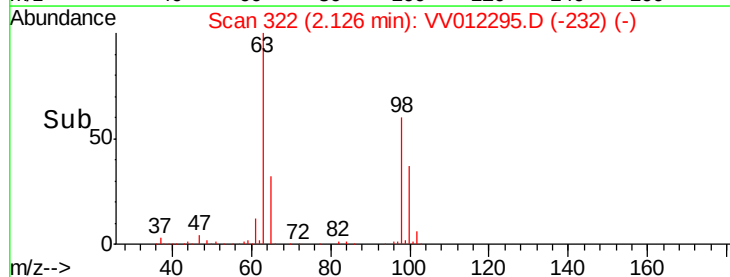
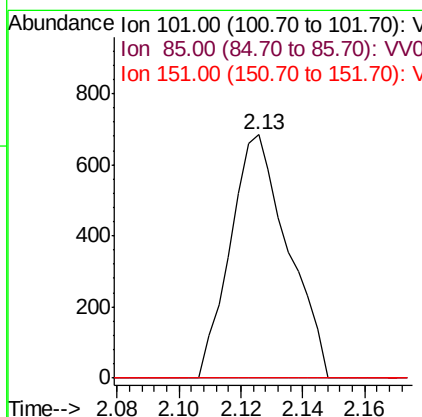
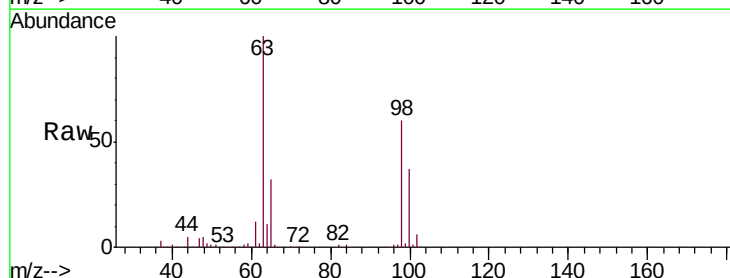
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AD2

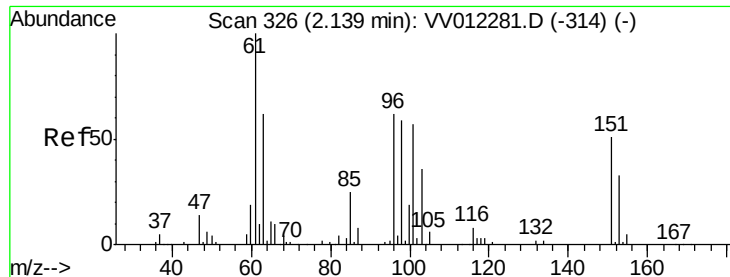
Tgt Ion: 64 Resp: 53399  
 Ion Ratio Lower Upper  
 64 100  
 66 4.9 23.7 44.1#



#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.072 ug/L  
 RT: 2.13 min Scan# 322  
 Delta R.T. -0.01 min  
 Lab File: VV012295.D  
 Acq: 19 Aug 2019 23:36

Tgt Ion: 101 Resp: 885  
 Ion Ratio Lower Upper  
 101 100  
 85 0.0 34.9 52.3#  
 151 0.0 71.5 107.3#

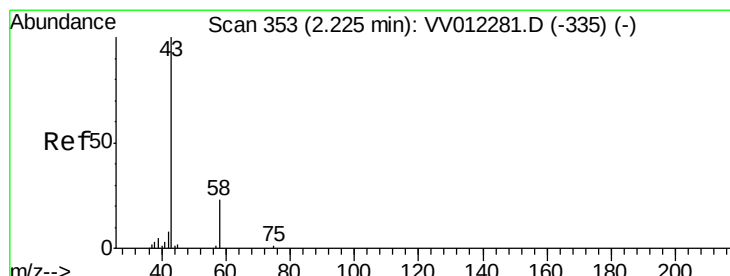
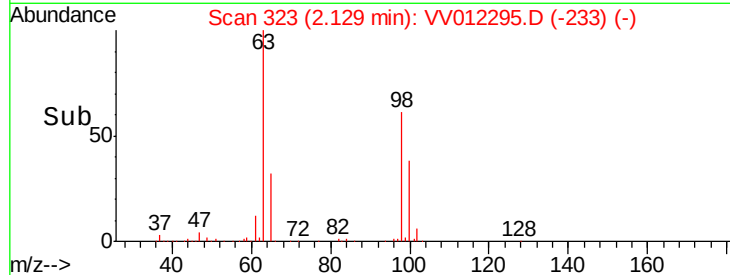
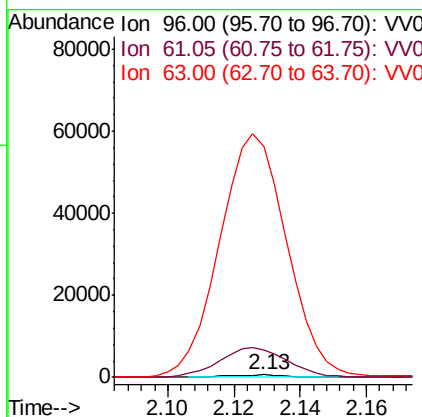
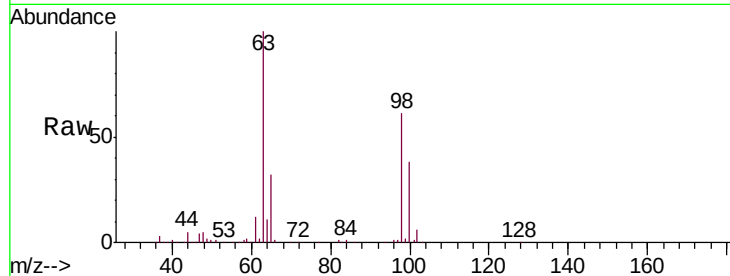




#12  
 1,1-Dichloroethene  
 Concen: 0.070 ug/L  
 RT: 2.13 min Scan# 323  
 Delta R.T. -0.01 min  
 Lab File: VV012295.D  
 Acq: 19 Aug 2019 23:36

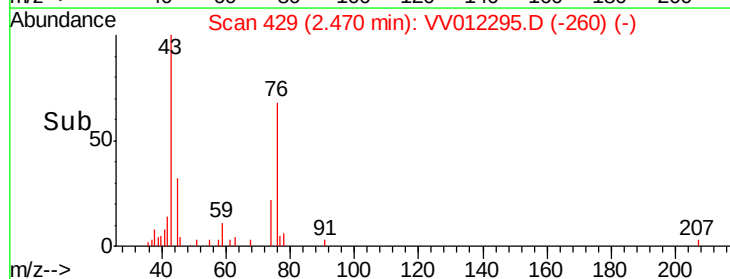
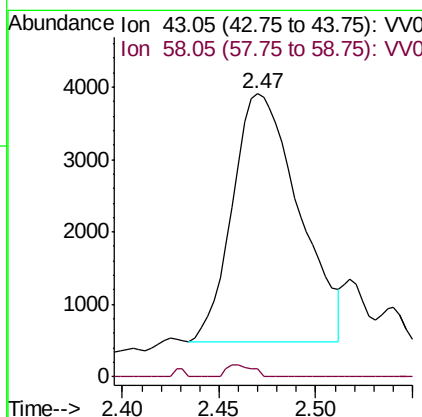
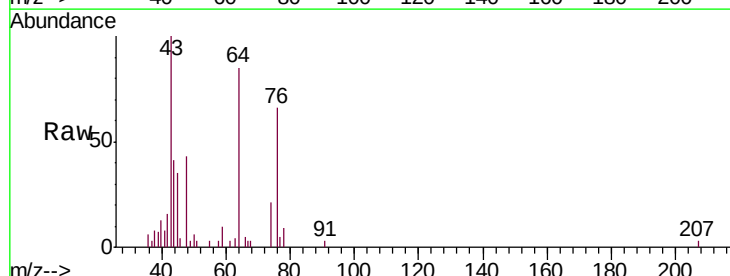
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 C0AD2

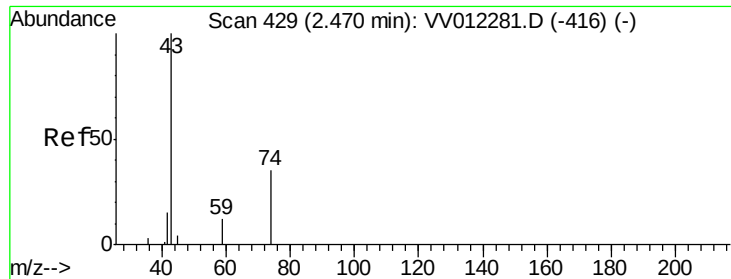
Tgt Ion: 96 Resp: 778  
 Ion Ratio Lower Upper  
 96 100  
 61 1171.4 117.7 218.7#  
 63 9750.0 81.1 150.5#



#13  
 Acetone  
 Concen: 4.681 ug/L  
 RT: 2.47 min Scan# 429  
 Delta R.T. 0.24 min  
 Lab File: VV012295.D  
 Acq: 19 Aug 2019 23:36

Tgt Ion: 43 Resp: 8154  
 Ion Ratio Lower Upper  
 43 100  
 58 1.9 0.0 25.6

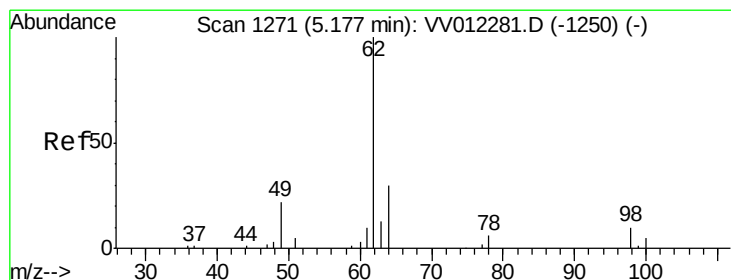
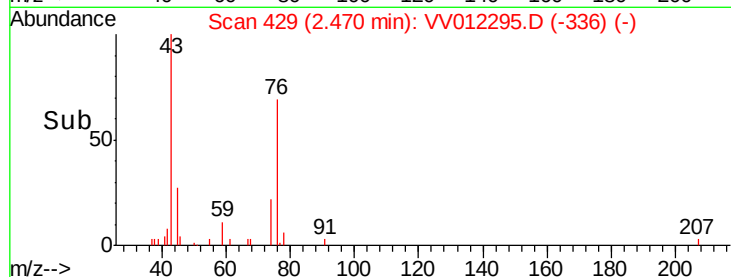
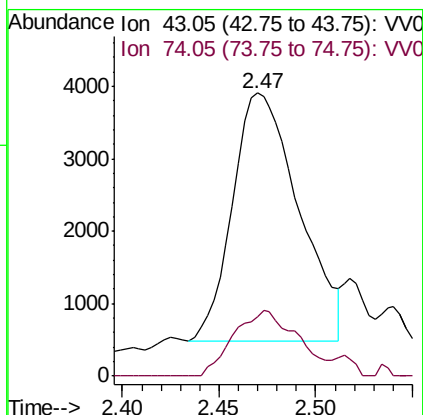
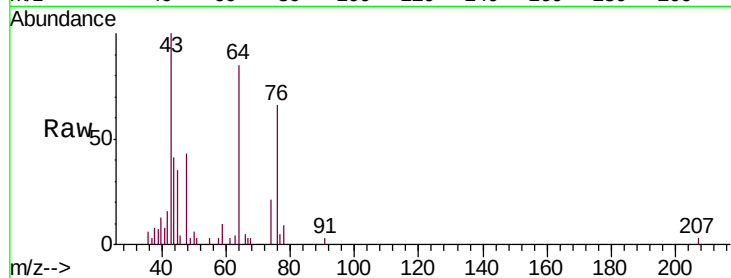




#15  
Methyl Acetate  
Concen: 2.360 ug/L  
RT: 2.47 min Scan# 429  
Delta R.T. -0.00 min  
Lab File: VV012295.D  
Acq: 19 Aug 2019 23:36

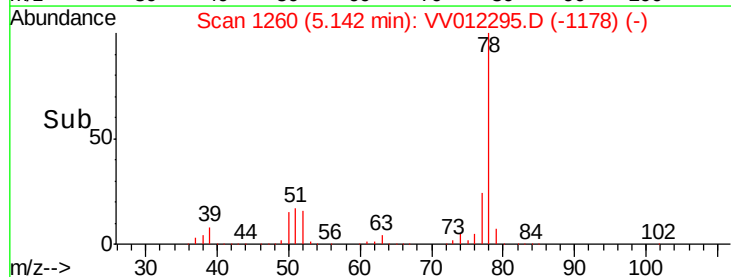
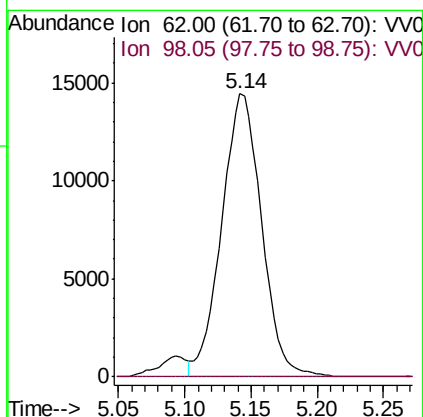
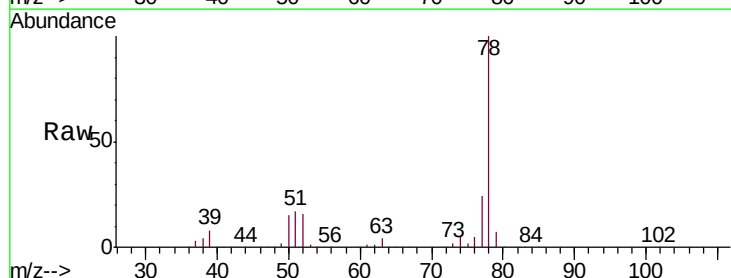
Instrument :  
MSVOA\_V  
ClientSampled :  
C0AD2

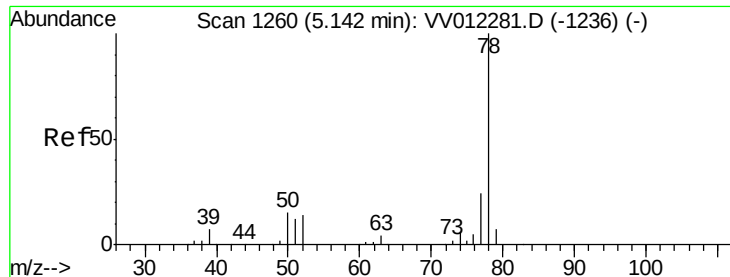
Tgt Ion: 43 Resp: 8154  
Ion Ratio Lower Upper  
43 100  
74 25.3 24.9 37.3



#27  
1,2-Dichloroethane  
Concen: 1.522 ug/L  
RT: 5.14 min Scan# 1260  
Delta R.T. -0.04 min  
Lab File: VV012295.D  
Acq: 19 Aug 2019 23:36

Tgt Ion: 62 Resp: 30236  
Ion Ratio Lower Upper  
62 100  
98 0.0 7.6 11.4#





#33

Benzene

Concen: 58.715 ug/L

RT: 5.14 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VV012295.D

Acq: 19 Aug 2019 23:36

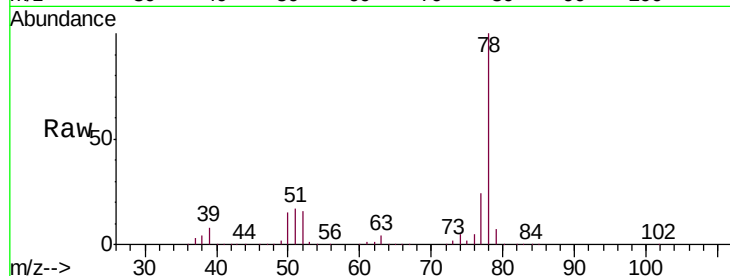
Instrument :

MSVOA\_V

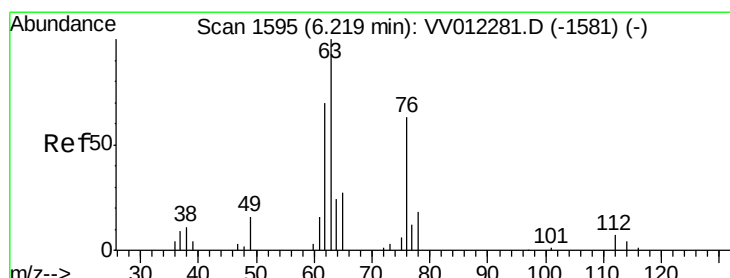
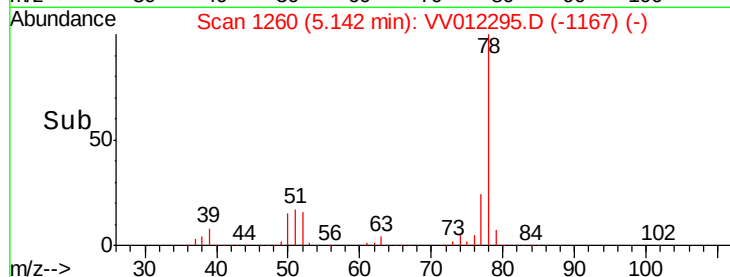
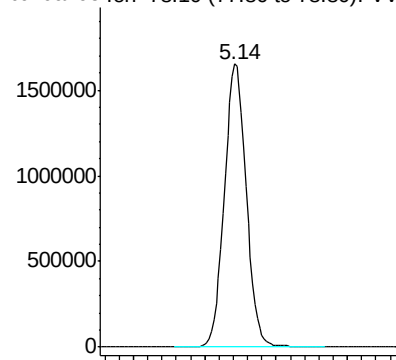
ClientSampled :

C0AD2

Tgt Ion: 78 Resp: 3548451



Abundance Ion 78.10 (77.80 to 78.80): VV0



#37

1,2-Dichloropropane

Concen: 0.704 ug/L

RT: 6.11 min Scan# 1562

Delta R.T. -0.11 min

Lab File: VV012295.D

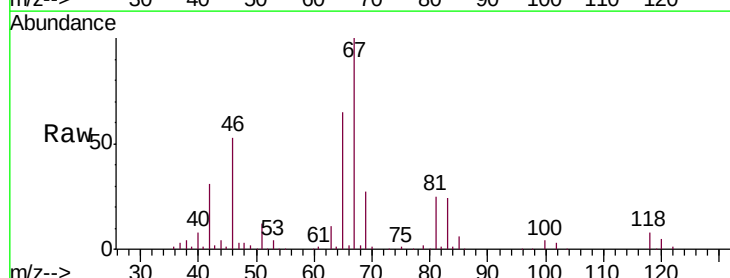
Acq: 19 Aug 2019 23:36

Tgt Ion: 63 Resp: 9961

Ion Ratio Lower Upper

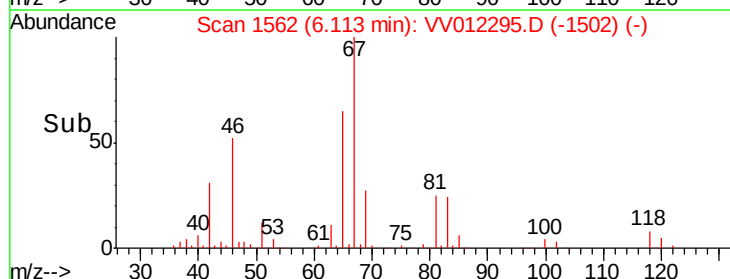
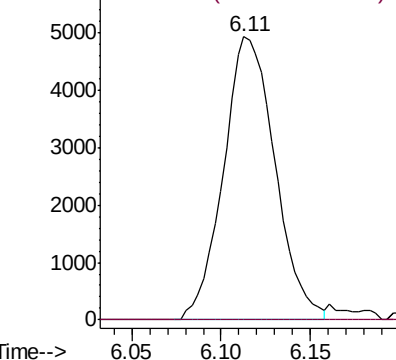
63 100

112 0.0 5.1 7.7#

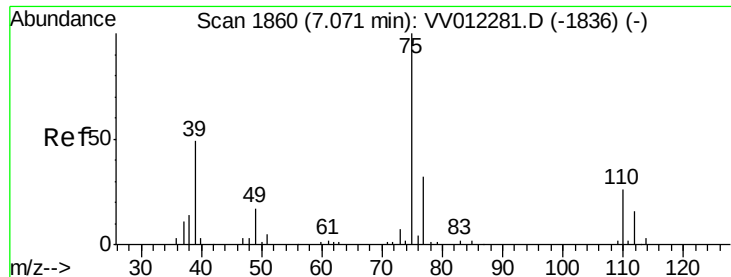


Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 112.10 (111.80 to 112.80): V



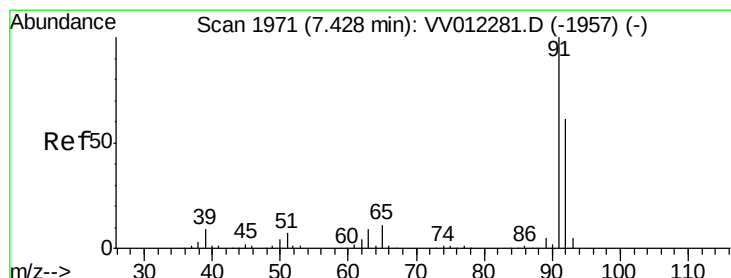
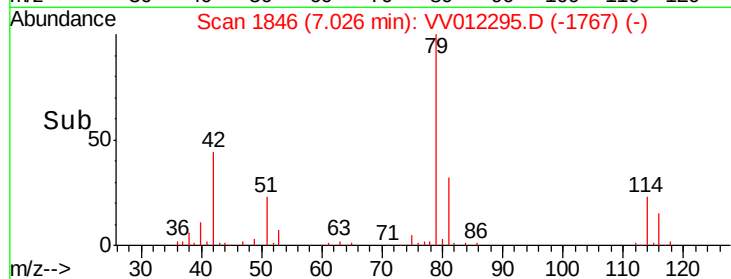
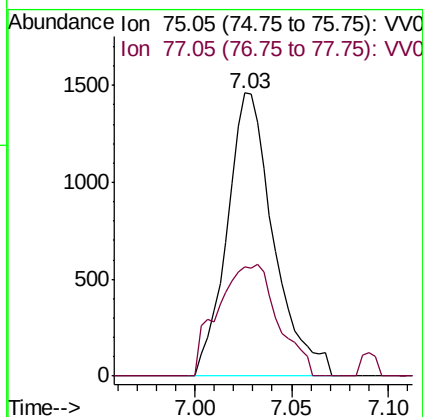
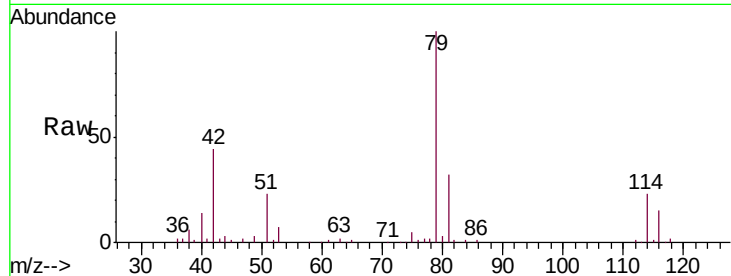




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.109 ug/L  
 RT: 7.03 min Scan# 1846  
 Delta R.T. -0.05 min  
 Lab File: VV012295.D  
 Acq: 19 Aug 2019 23:36

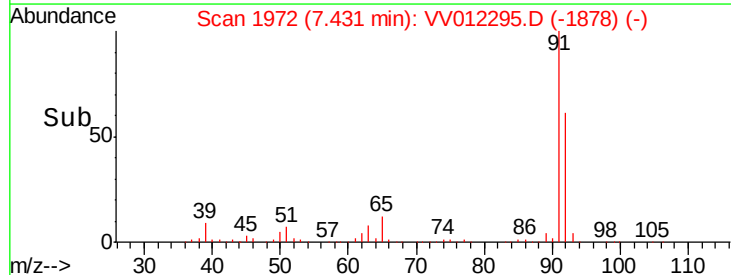
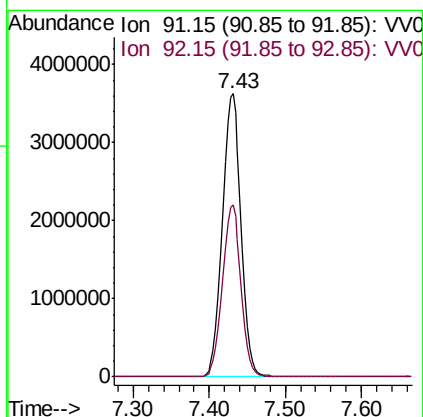
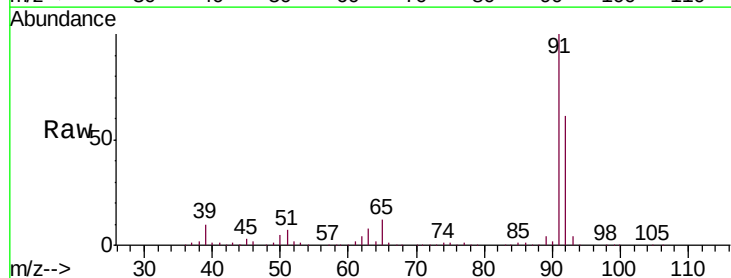
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AD2

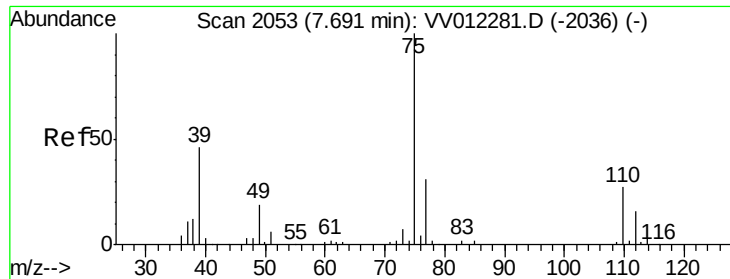
Tgt Ion: 75 Resp: 2438  
 Ion Ratio Lower Upper  
 75 100  
 77 38.7 21.5 39.9



#42  
 Toluene  
 Concen: 92.684 ug/L  
 RT: 7.43 min Scan# 1972  
 Delta R.T. 0.00 min  
 Lab File: VV012295.D  
 Acq: 19 Aug 2019 23:36

Tgt Ion: 91 Resp: 6199885  
 Ion Ratio Lower Upper  
 91 100  
 92 60.6 41.6 77.3





#44

trans-1,3-Dichloropropene

Concen: 0.083 ug/L

RT: 7.66 min Scan# 2043

Delta R.T. -0.03 min

Lab File: VV012295.D

Acq: 19 Aug 2019 23:36

Instrument :

MSVOA\_V

ClientSampleId :

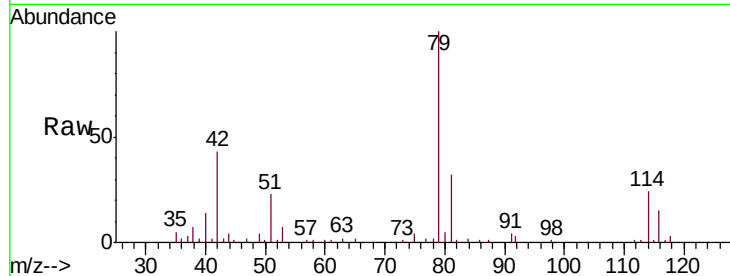
C0AD2

Tgt Ion: 75 Resp: 1496

Ion Ratio Lower Upper

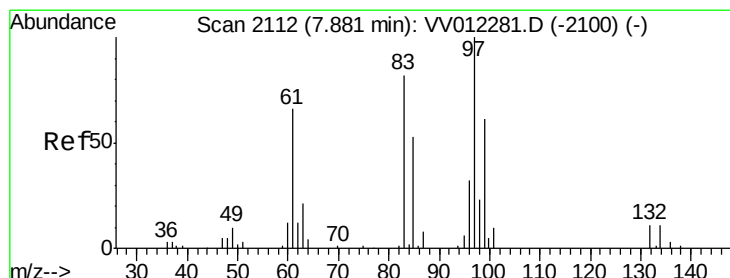
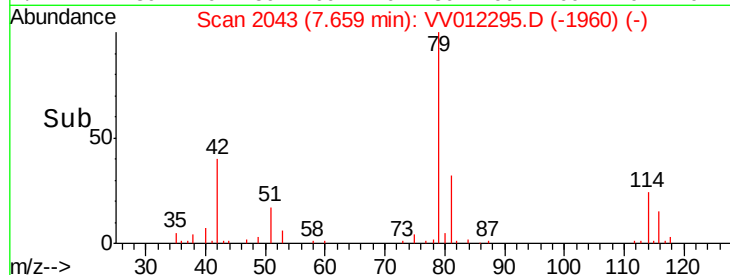
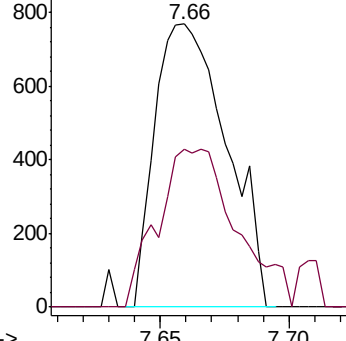
75 100

77 55.9 22.1 41.1#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#45

1,1,2-Trichloroethane

Concen: 3.931 ug/L

RT: 7.74 min Scan# 2067

Delta R.T. -0.14 min

Lab File: VV012295.D

Acq: 19 Aug 2019 23:36

Tgt Ion: 97 Resp: 42642

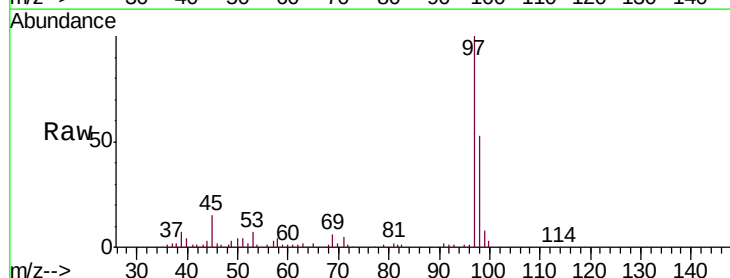
Ion Ratio Lower Upper

97 100

99 7.7 44.7 83.1#

83 0.0 56.8 105.6#

85 0.0 34.5 64.1#

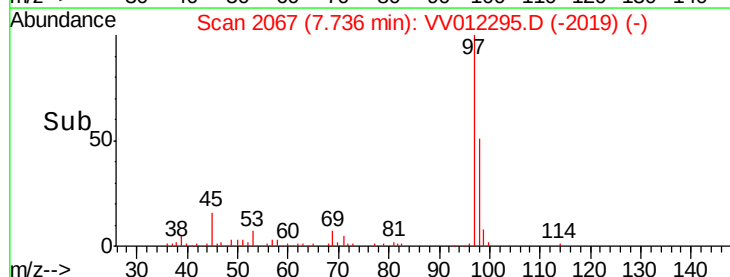
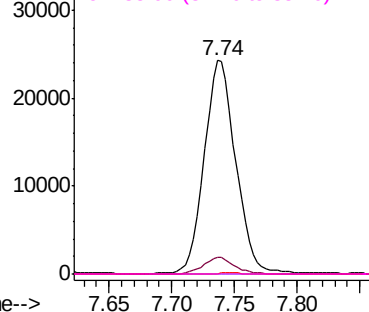


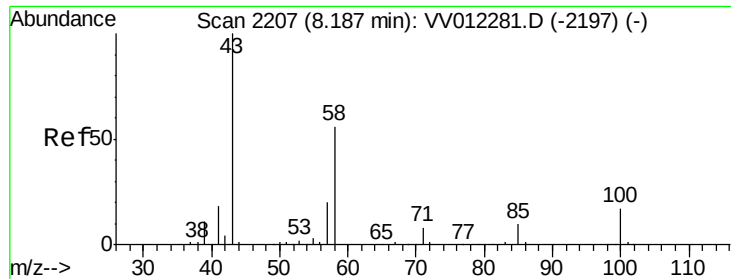
Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

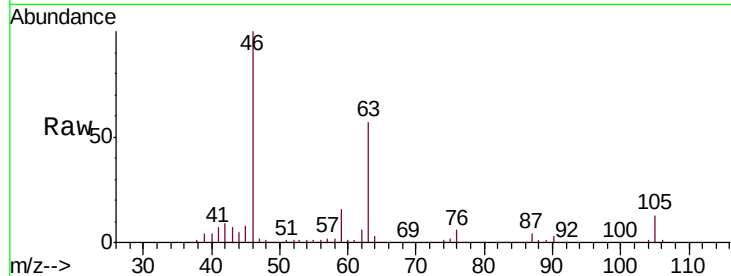




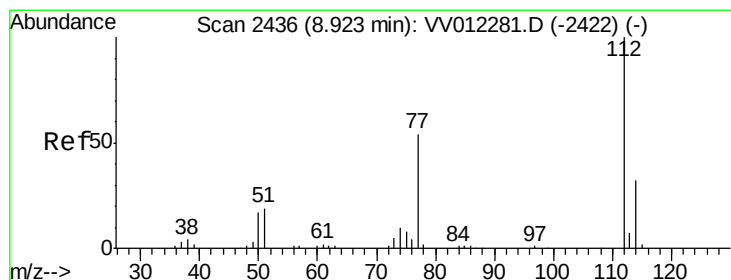
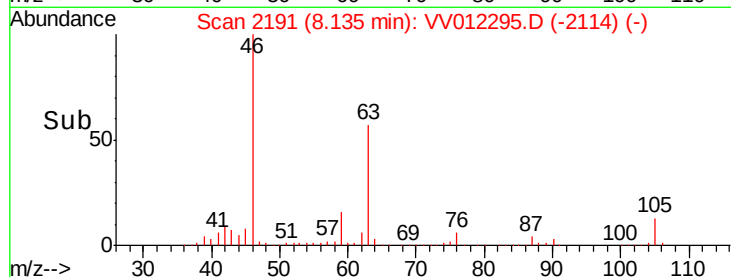
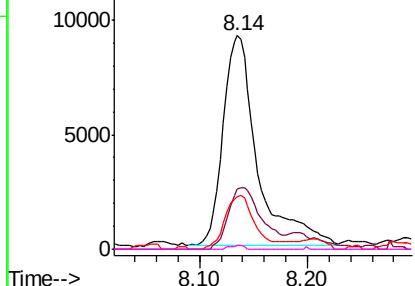
#48  
2-Hexanone  
Concen: 3.804 ug/L  
RT: 8.14 min Scan# 2191  
Delta R.T. -0.05 min  
Lab File: VV012295.D  
Acq: 19 Aug 2019 23:36

Instrument :  
MSVOA\_V  
ClientSampled :  
C0AD2

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 20330 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 28.6  | 45.4  | 68.2# |
| 57       | 22.1  | 16.8  | 25.2  |
| 100      | 0.8   | 12.2  | 18.2# |

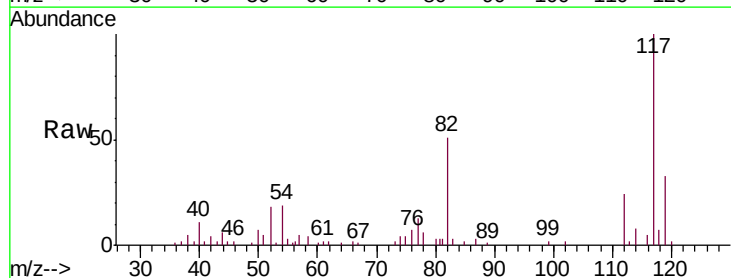


Abundance Ion 43.05 (42.75 to 43.75): VV012295.D (-2197) (-)  
Ion 58.05 (57.75 to 58.75): VV012295.D (-2197) (-)  
Ion 57.20 (56.90 to 57.90): VV012295.D (-2197) (-)  
Ion 100.15 (99.85 to 100.85): VV012295.D (-2197) (-)

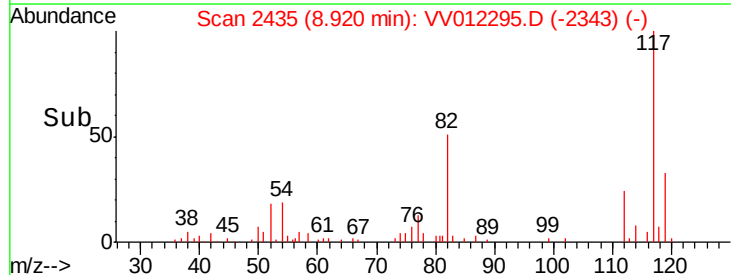
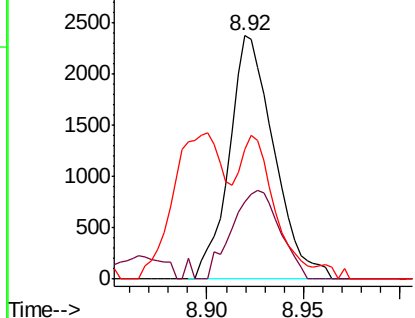


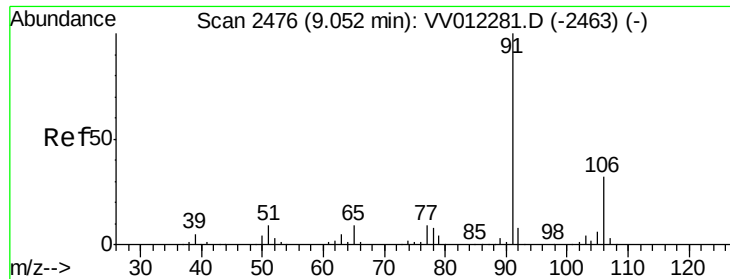
#51  
Chlorobenzene  
Concen: 0.084 ug/L  
RT: 8.92 min Scan# 2435  
Delta R.T. -0.00 min  
Lab File: VV012295.D  
Acq: 19 Aug 2019 23:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 3818  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 114      | 31.8  | 22.3  | 41.5  |
| 77       | 53.1  | 43.9  | 65.9  |



Abundance Ion 112.10 (111.80 to 112.80): VV012295.D (-2433) (-)  
Ion 114.05 (113.75 to 114.75): VV012295.D (-2433) (-)  
Ion 77.10 (76.80 to 77.80): VV012295.D (-2433) (-)

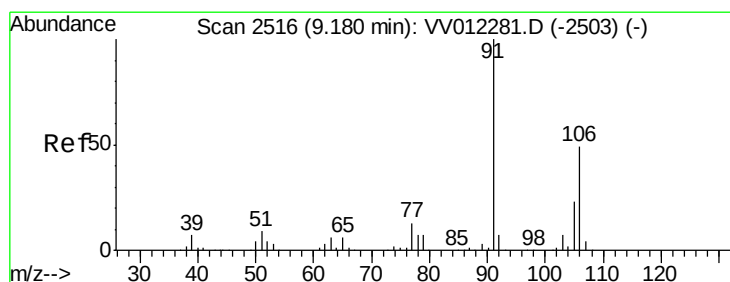
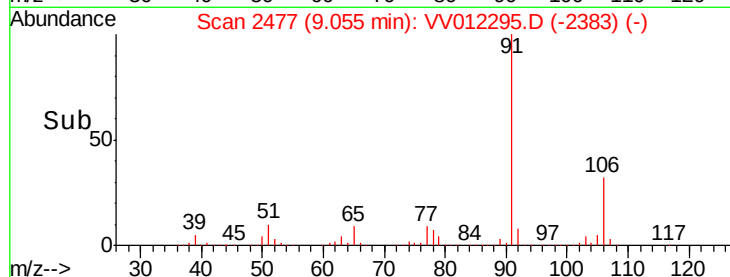
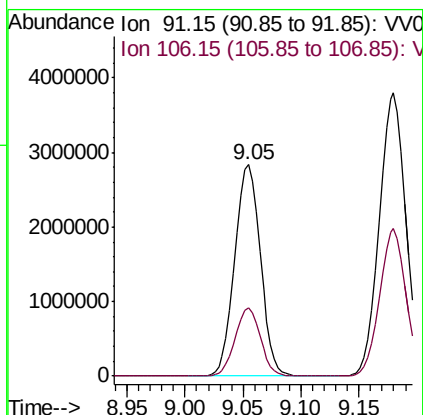
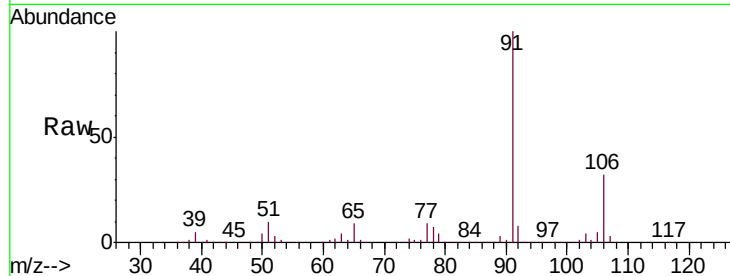




#52  
Ethylbenzene  
Concen: 58.106 ug/L  
RT: 9.05 min Scan# 2477  
Delta R.T. 0.00 min  
Lab File: VV012295.D  
Acq: 19 Aug 2019 23:36

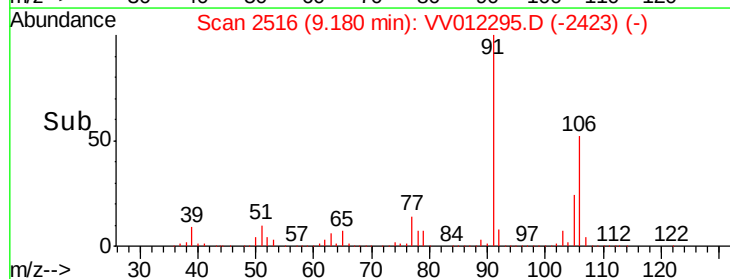
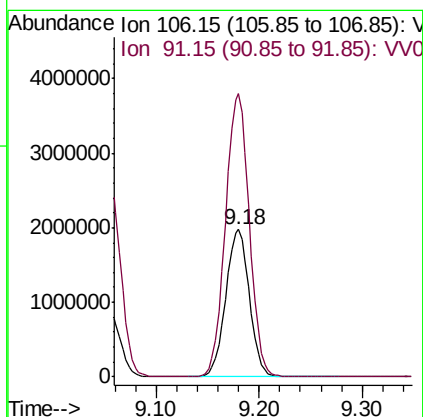
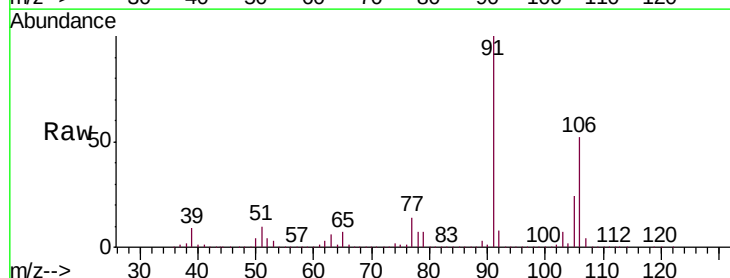
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AD2

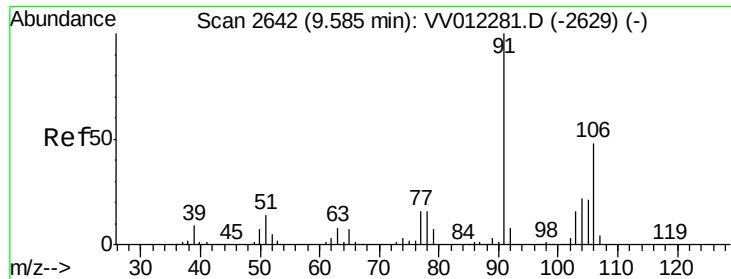
Tgt Ion: 91 Resp: 4348855  
Ion Ratio Lower Upper  
91 100  
106 32.1 21.6 40.0



#53  
m,p-xylene  
Concen: 107.667 ug/L  
RT: 9.18 min Scan# 2516  
Delta R.T. -0.00 min  
Lab File: VV012295.D  
Acq: 19 Aug 2019 23:36

Tgt Ion: 106 Resp: 3145863  
Ion Ratio Lower Upper  
106 100  
91 192.0 136.0 252.6





#54

o-xylene

Concen: 58.792 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV012295.D

Acq: 19 Aug 2019 23:36

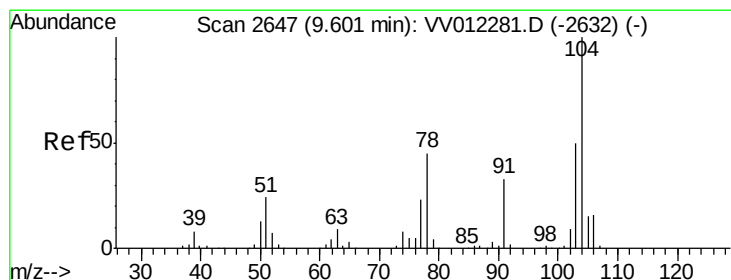
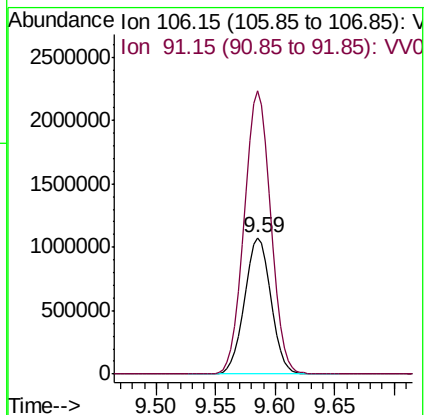
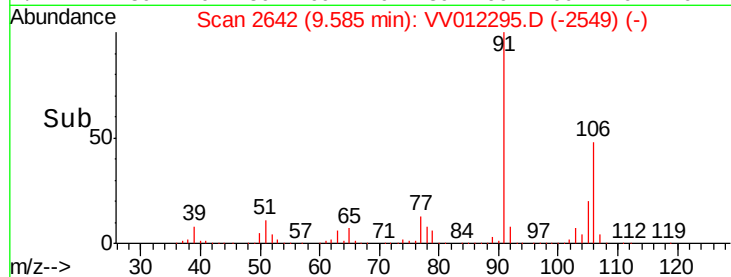
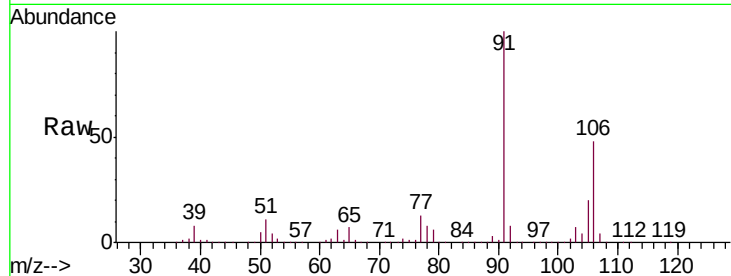
Instrument :  
MSVOA\_V  
ClientSampleID :  
C0AD2

Tgt Ion:106 Resp: 1652180

Ion Ratio Lower Upper

106 100

91 207.1 148.7 276.1



#55

Styrene

Concen: 6.727 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV012295.D

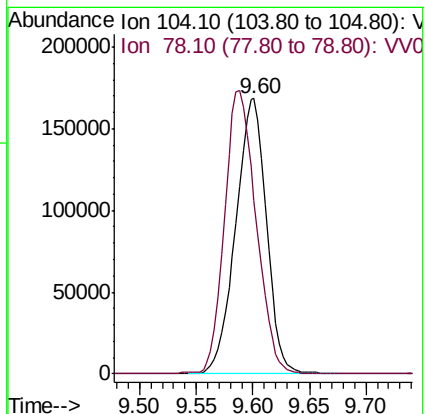
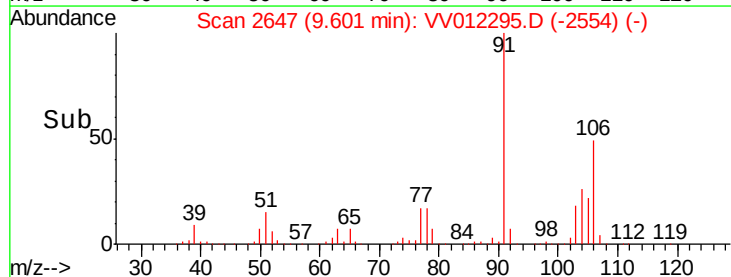
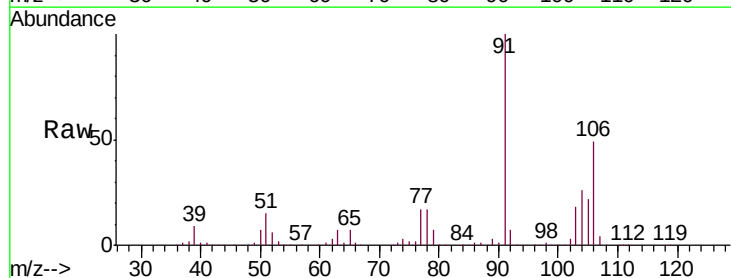
Acq: 19 Aug 2019 23:36

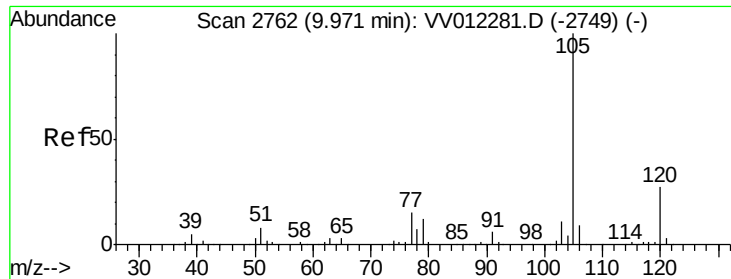
Tgt Ion:104 Resp: 319327

Ion Ratio Lower Upper

104 100

78 63.0 30.8 57.2#





#56

Isopropylbenzene

Concen: 3.561 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012295.D

Acq: 19 Aug 2019 23:36

Instrument :

MSVOA\_V

ClientSampleId :

C0AD2

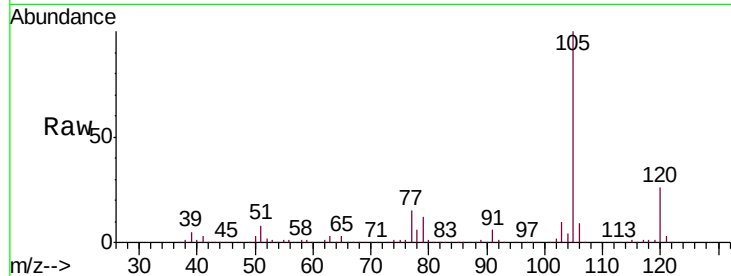
Tgt Ion: 105 Resp: 276186

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.0

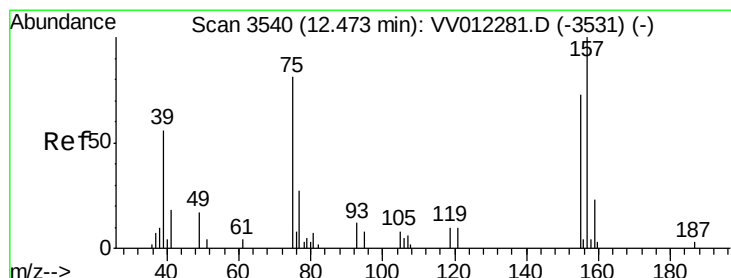
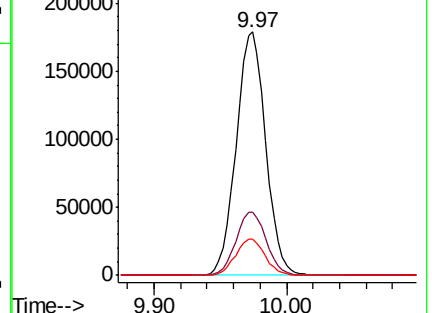
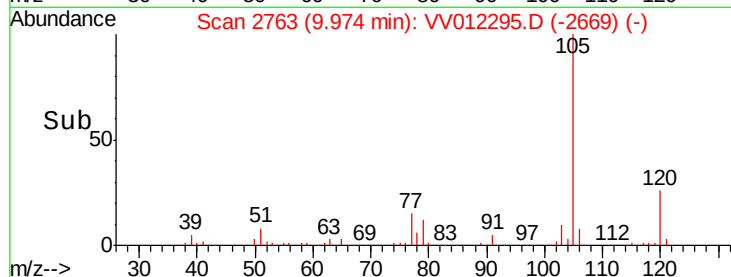
77 15.3 12.2 18.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#66

1,2-Dibromo-3-chloropropane

Concen: 185.953 ug/L

RT: 12.51 min Scan# 3553

Delta R.T. 0.04 min

Lab File: VV012295.D

Acq: 19 Aug 2019 23:36

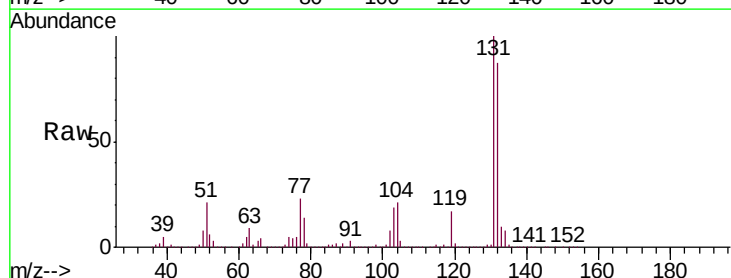
Tgt Ion: 75 Resp: 344000

Ion Ratio Lower Upper

75 100

155 0.0 68.4 102.6#

157 0.0 92.6 139.0#



Abundance Ion 75.05 (74.75 to 75.75): V

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

