

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052820\  
 Data File : VV016297.D  
 Acq On : 29 May 2020 00:18  
 Operator : SY/MD  
 Sample : L2766-07DL 25X  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BE4Z0DL

Quant Time: May 29 05:24:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR052620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri May 29 04:21:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 86322    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 84831    | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 39830    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 20116    | 3.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 72.60%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 20233    | 4.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 83.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 31129    | 2.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 59.80%# |
| 20) 2-Butanone-d5              | 3.94   | 46    | 71671    | 52.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 104.24% |
| 24) Chloroform-d               | 4.38   | 84    | 47367    | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 85.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 26915    | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.20%  |
| 32) Benzene-d6                 | 5.08   | 84    | 92481    | 4.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 29993    | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 92.20%  |
| 41) Toluene-d8                 | 7.34   | 98    | 82123    | 4.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 82.00%  |
| 45) trans-1,3-Dichloropropene- | 7.65   | 79    | 9102     | 3.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 75.20%  |
| 48) 2-Hexanone-d5              | 8.12   | 63    | 49887    | 44.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 89.78%  |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 21543    | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 89.60%  |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 30776    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 92.60%  |

## Target Compounds

| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 5) Vinyl chloride          | 1.32  | 62   | 1701     | 0.225 | ug/L # | 57     |
| 8) Chloroethane            | 1.60  | 64   | 20828    | 4.931 | ug/L   | 90     |
| 13) Acetone                | 2.21  | 43   | 5183     | 6.089 | ug/L   | 91     |
| 19) 1,1-Dichloroethane     | 3.22  | 63   | 4891     | 0.462 | ug/L # | 93     |
| 22) cis-1,2-Dichloroethene | 3.94  | 96   | 12626    | 1.916 | ug/L   | 100    |
| 33) Benzene                | 5.13  | 78   | 85564    | 3.505 | ug/L   | 100    |
| 35) Methylcyclohexane      | 6.15  | 83   | 1269     | 0.118 | ug/L # | 84     |
| 42) Toluene                | 7.41  | 91   | 168247   | 6.320 | ug/L   | 97     |
| 49) Tetrachloroethene      | 8.00  | 164  | 687      | 0.150 | ug/L # | 75     |
| 53) Chlorobenzene          | 8.90  | 112  | 78555    | 4.775 | ug/L   | 100    |
| 54) Ethylbenzene           | 9.04  | 91   | 32402    | 1.092 | ug/L   | 100    |
| 55) m,p-xylene             | 9.16  | 106  | 59125    | 5.314 | ug/L   | 99     |
| 56) o-xylene               | 9.57  | 106  | 11320    | 1.068 | ug/L   | 98     |
| 58) Isopropylbenzene       | 9.95  | 105  | 10402    | 0.358 | ug/L   | 98     |
| 64) 1,4-Dichlorobenzene    | 11.30 | 146  | 2812     | 0.228 | ug/L   | 95     |
| 66) 1,2-Dichlorobenzene    | 11.67 | 146  | 1942     | 0.177 | ug/L   | 87     |

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QLast Update : Fri May 29 04:21:25 2020  
Response via : Initial Calibration

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

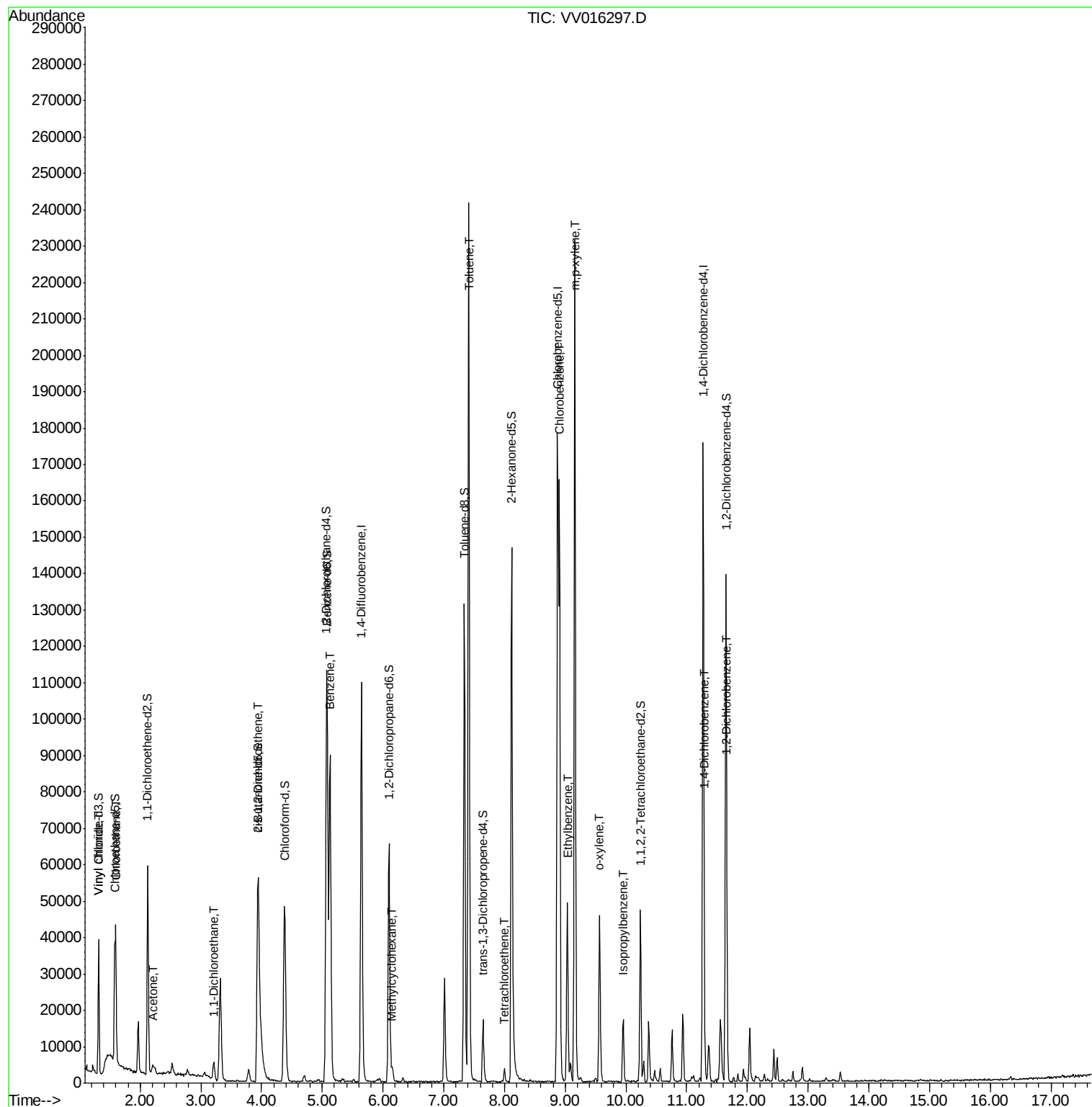
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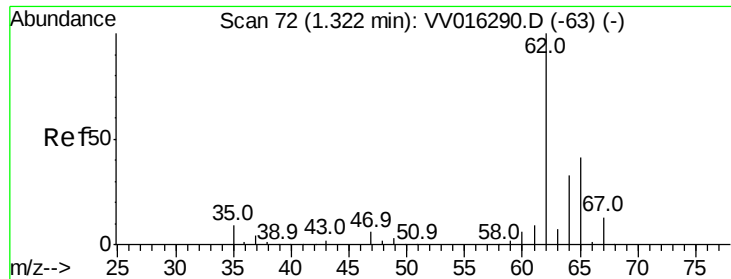
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 29 04:21:25 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.225 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

Instrument :

MSVOA\_V

ClientSampleId :

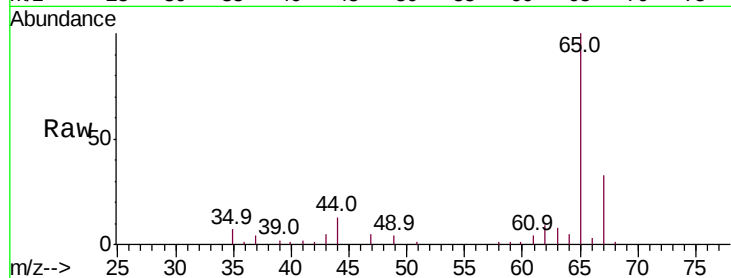
BE4Z0DL

Tot Ion: 62 Resp: 1701

Ion Ratio Lower Upper

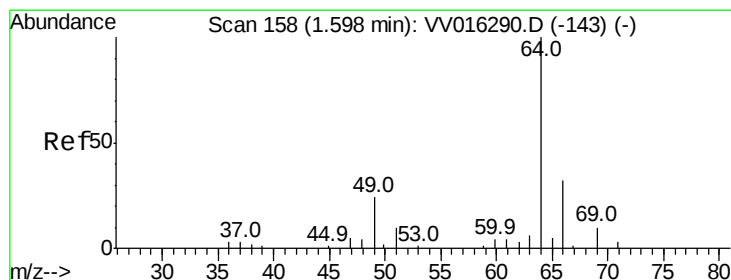
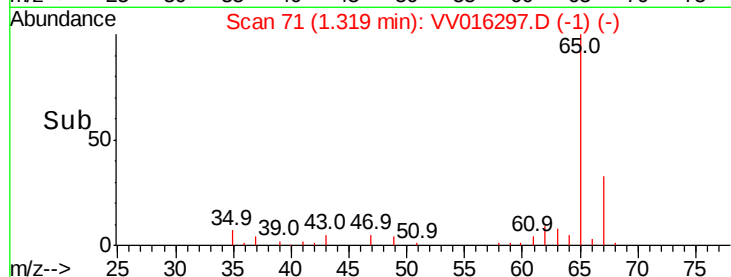
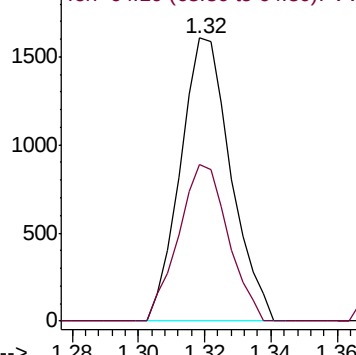
62 100

64 55.5 22.1 41.1#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#8

Chloroethane

Concen: 4.931 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV016297.D

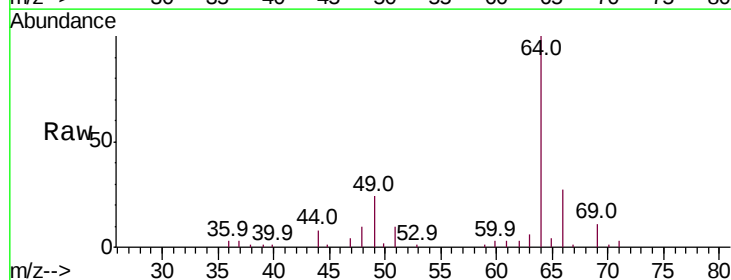
Acq: 29 May 2020 00:18

Tgt Ion: 64 Resp: 20828

Ion Ratio Lower Upper

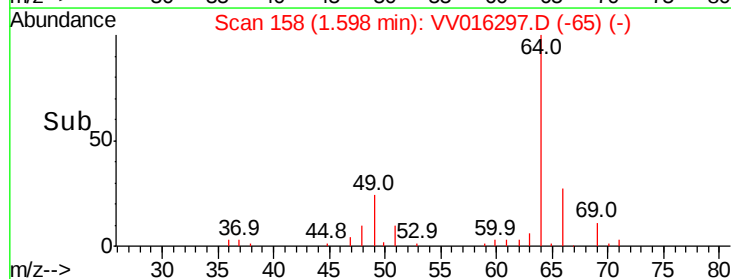
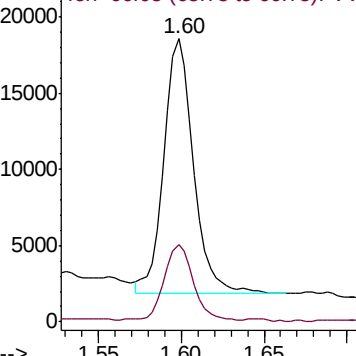
64 100

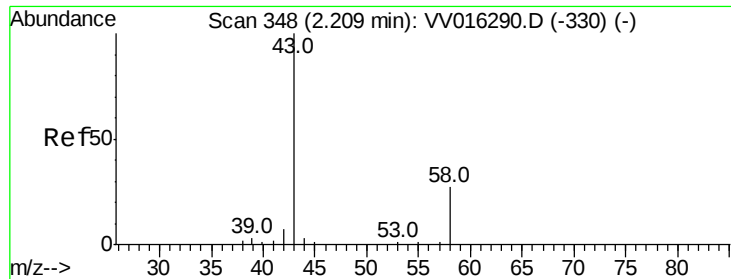
66 27.2 22.9 42.5



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0





#13

Acetone

Concen: 6.089 ug/L

RT: 2.21 min Scan# 349

Delta R.T. 0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

Instrument :

MSVOA\_V

ClientSampleId :

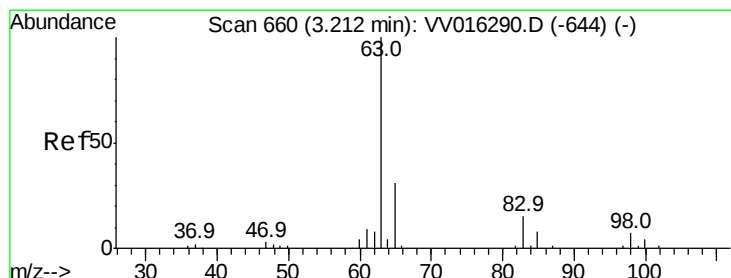
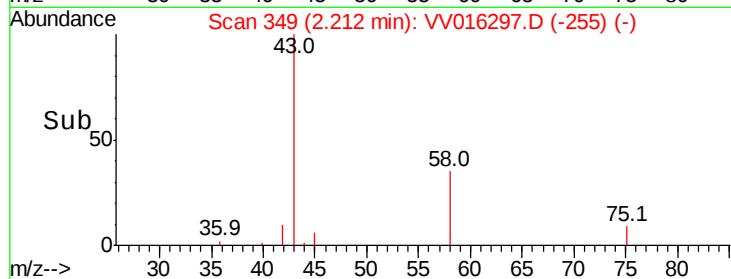
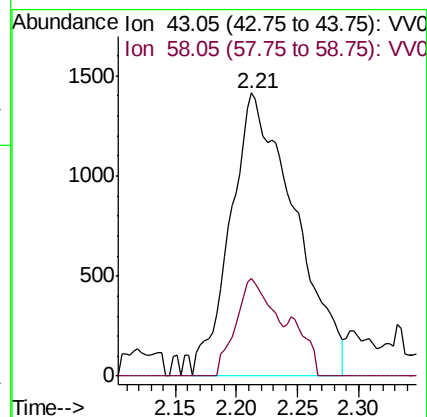
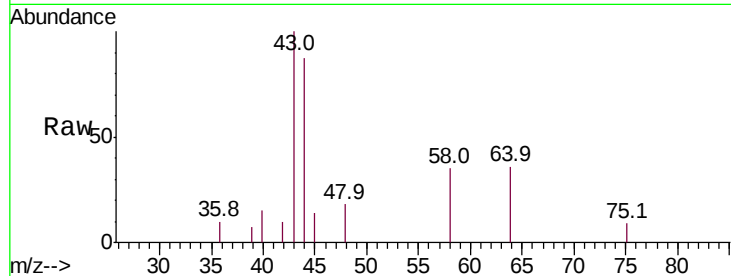
BE4Z0DL

Tot Ion: 43 Resp: 5183

Ion Ratio Lower Upper

43 100

58 20.0 0.0 48.8



#19

1,1-Dichloroethane

Concen: 0.462 ug/L

RT: 3.22 min Scan# 661

Delta R.T. 0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

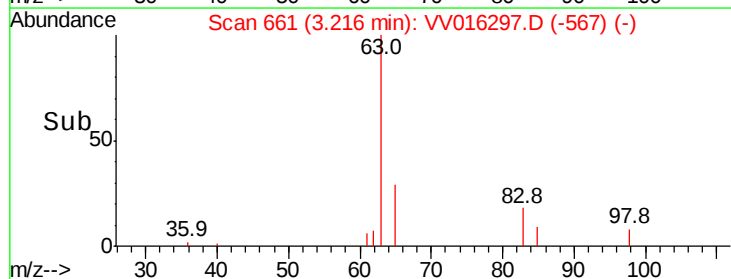
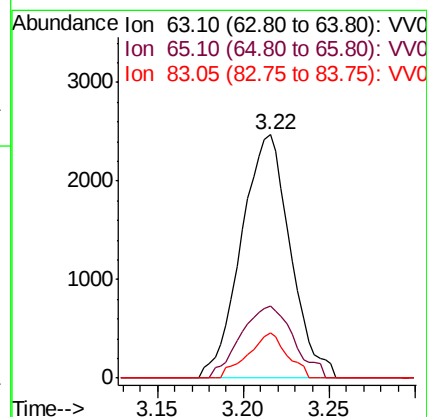
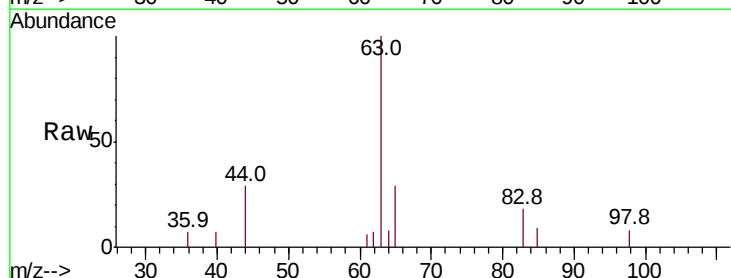
Tgt Ion: 63 Resp: 4891

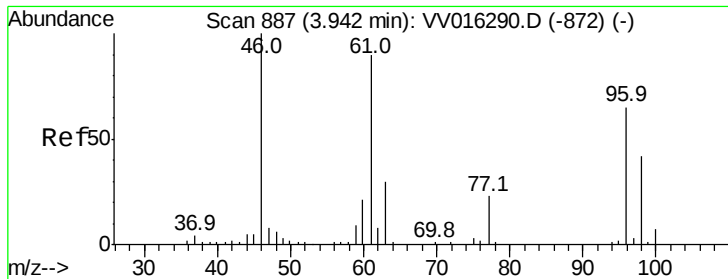
Ion Ratio Lower Upper

63 100

65 29.4 22.3 41.5

83 18.5 9.4 17.4#





#22

cis-1,2-Dichloroethene

Concen: 1.916 ug/L

RT: 3.94 min Scan# 886

Delta R.T. -0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

Instrument :

MSVOA\_V

ClientSampleId :

BE4Z0DL

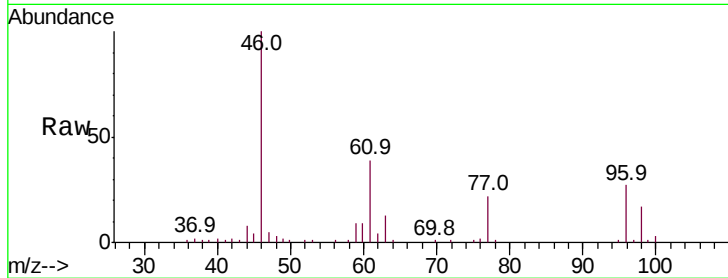
Tot Ion: 96 Resp: 12626

Ion Ratio Lower Upper

96 100

61 142.6 99.7 185.1

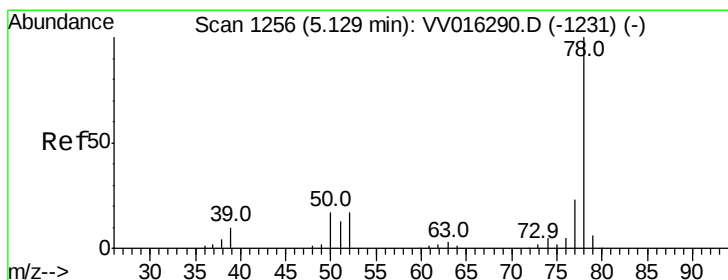
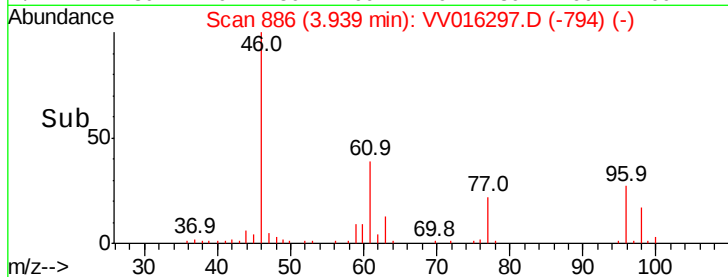
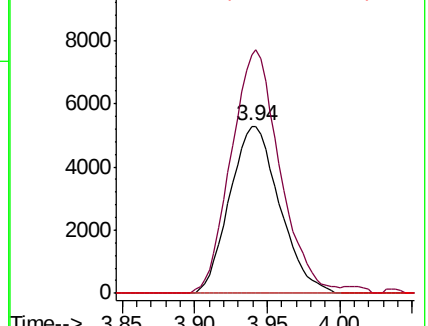
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 68.15 (67.85 to 68.85): VV0



#33

Benzene

Concen: 3.505 ug/L

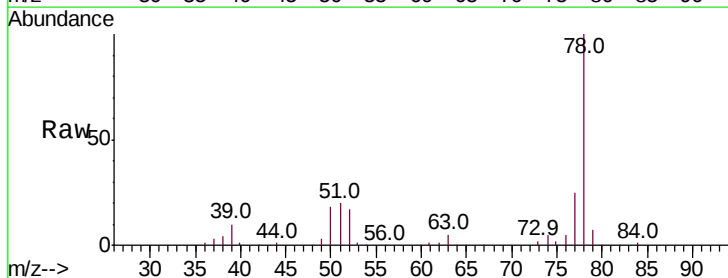
RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

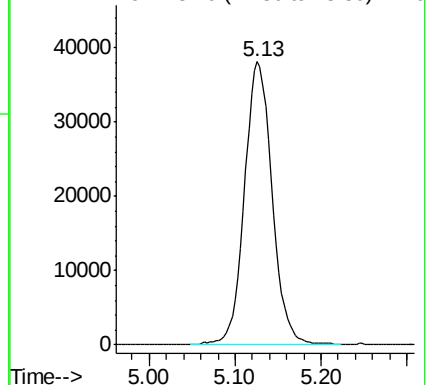
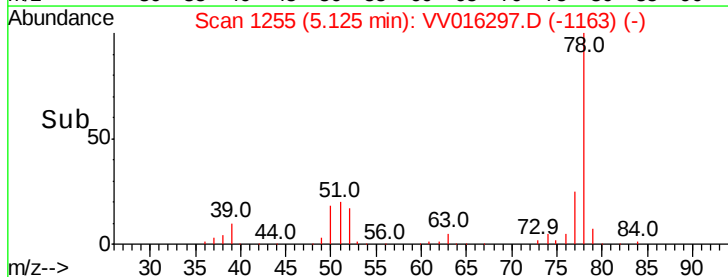
Lab File: VV016297.D

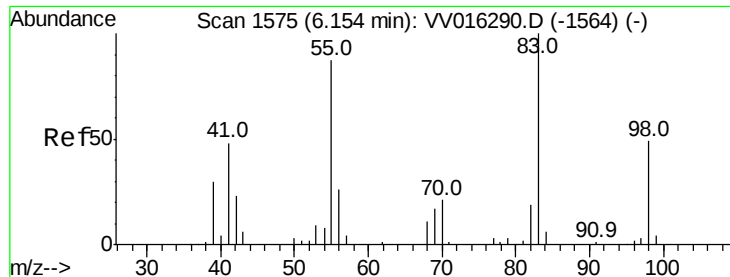
Acq: 29 May 2020 00:18

Tgt Ion: 78 Resp: 85564



Abundance Ion 78.10 (77.80 to 78.80): VV0

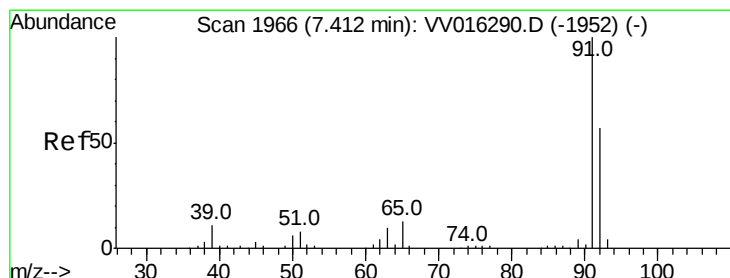
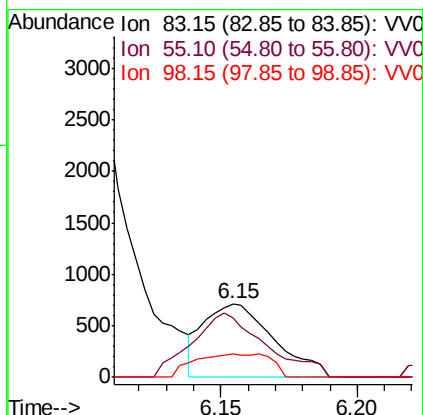
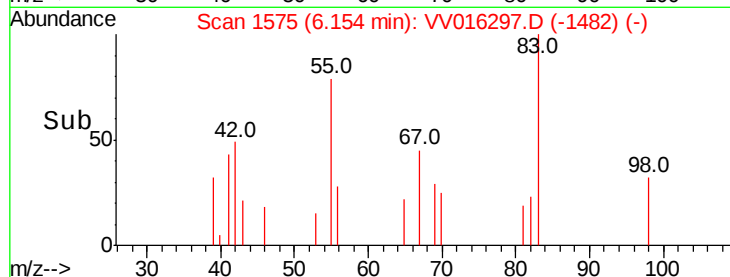
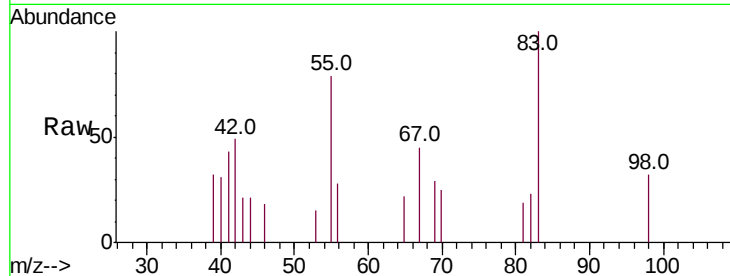




#35  
Methvlcvclohexane  
Concen: 0.118 ug/L  
RT: 6.15 min Scan# 1575  
Delta R.T. 0.00 min  
Lab File: VV016297.D  
Acq: 29 May 2020 00:18

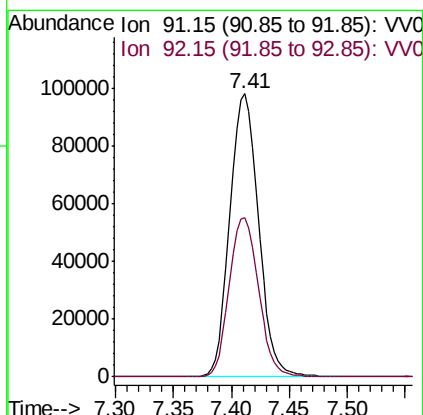
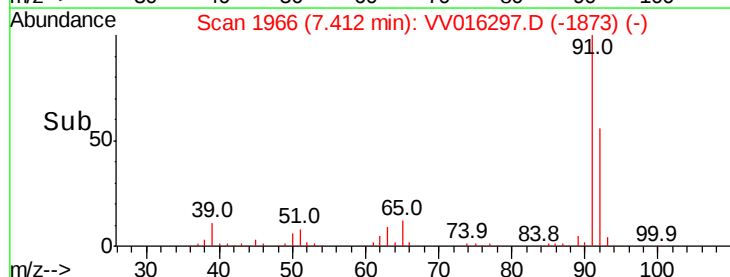
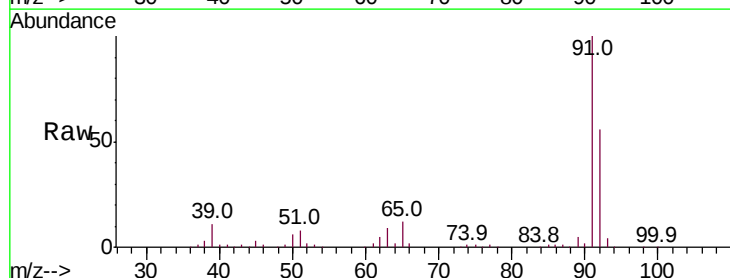
Instrument :  
MSVOA\_V  
ClientSampleId :  
BE4Z0DL

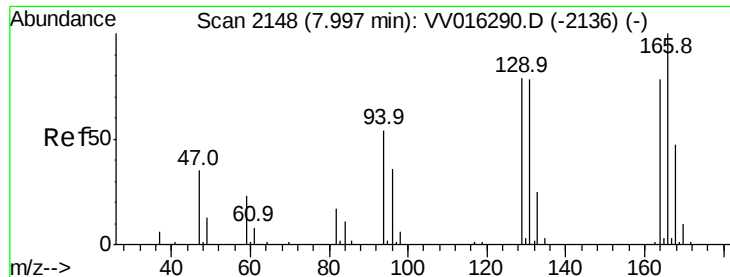
Tot Ion: 83 Resp: 1269  
Ion Ratio Lower Upper  
83 100  
55 92.7 65.4 98.0  
98 34.7 39.3 58.9#



#42  
Toluene  
Concen: 6.320 ug/L  
RT: 7.41 min Scan# 1966  
Delta R.T. 0.00 min  
Lab File: VV016297.D  
Acq: 29 May 2020 00:18

Tgt Ion: 91 Resp: 168247  
Ion Ratio Lower Upper  
91 100  
92 56.2 40.9 76.0





#49

Tetrachloroethene

Concen: 0.150 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

Instrument :

MSVOA\_V

ClientSampleId :

BE4Z0DL

Tot Ion:164 Resp: 687

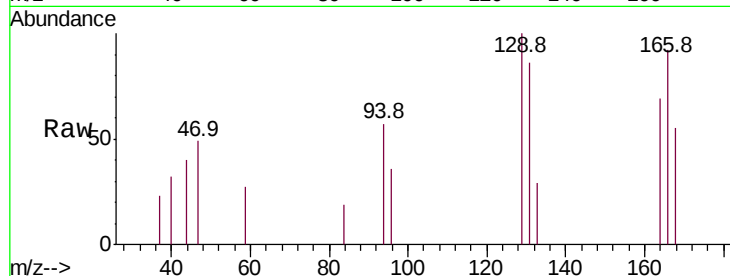
Ion Ratio Lower Upper

164 100

129 144.1 70.7 131.3#

131 124.2 66.6 123.8#

166 132.0 86.9 161.5

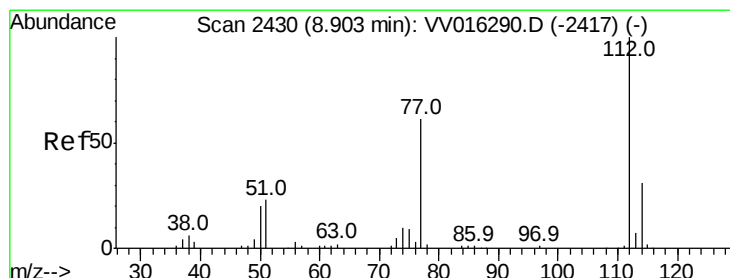
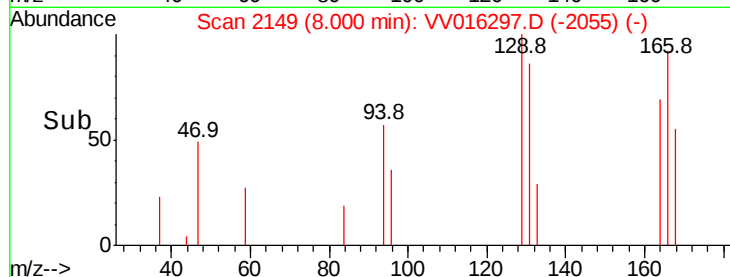
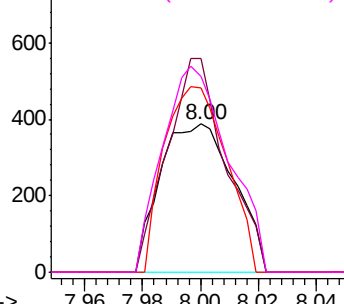


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#53

Chlorobenzene

Concen: 4.775 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

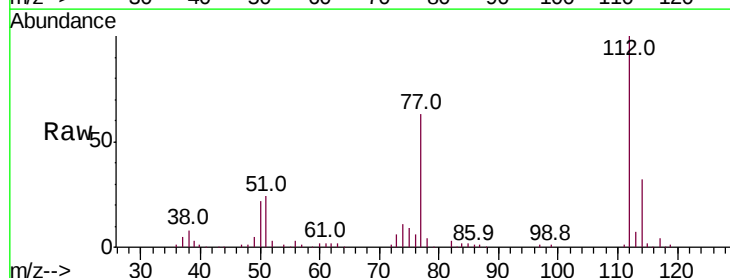
Tgt Ion:112 Resp: 78555

Ion Ratio Lower Upper

112 100

114 32.2 22.3 41.3

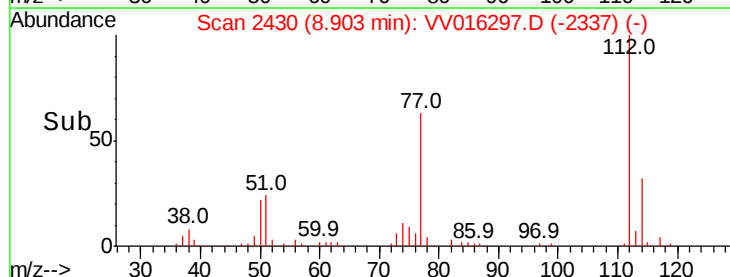
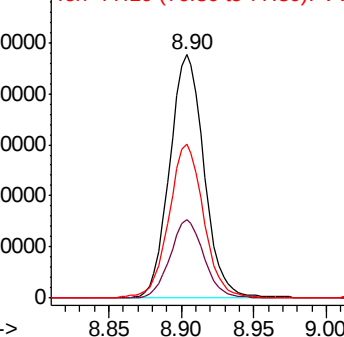
77 63.3 50.7 76.1

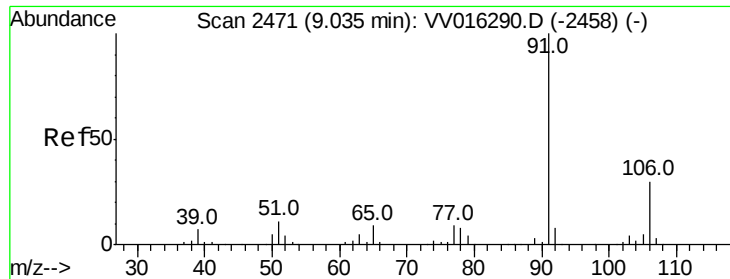


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#54

Ethylbenzene

Concen: 1.092 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

Instrument :

MSVOA\_V

ClientSampleId :

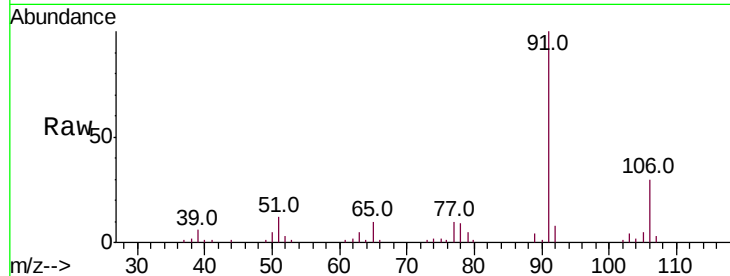
BE4Z0DL

Tot Ion: 91 Resp: 32402

Ion Ratio Lower Upper

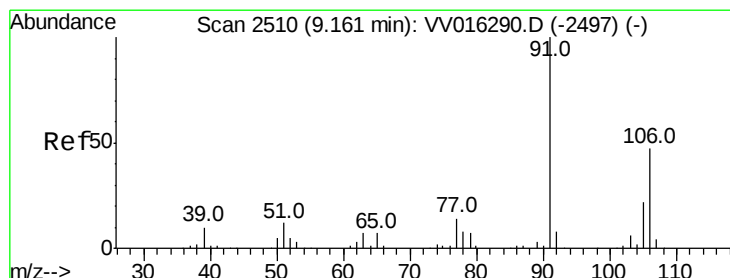
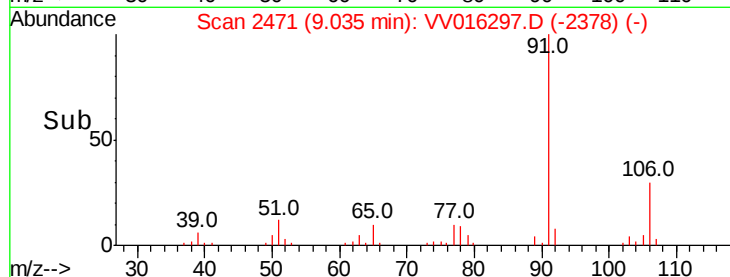
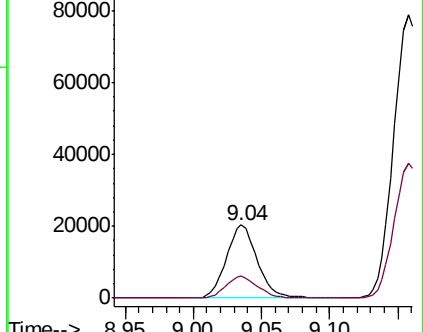
91 100

106 30.1 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VV016297.D (-2458) (-)

Ion 106.15 (105.85 to 106.85): VV016297.D (-2458) (-)



#55

m,p-xylene

Concen: 5.314 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV016297.D

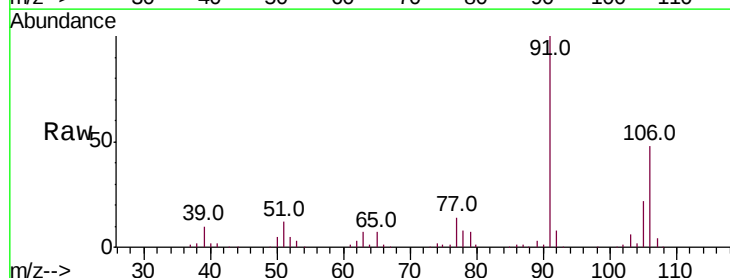
Acq: 29 May 2020 00:18

Tgt Ion: 106 Resp: 59125

Ion Ratio Lower Upper

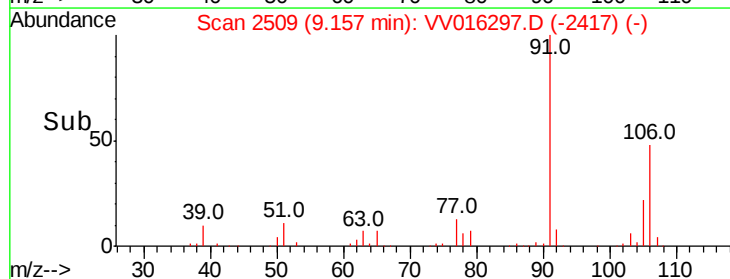
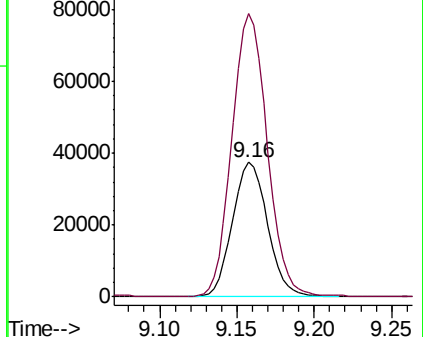
106 100

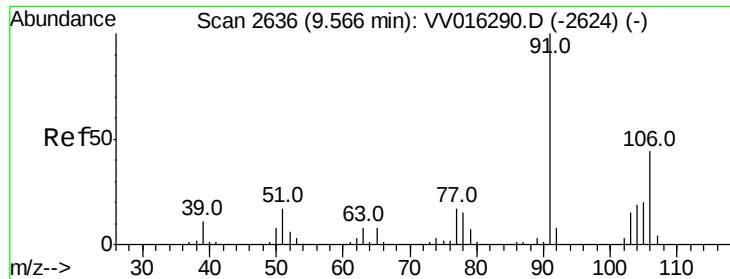
91 210.5 148.1 275.0



Abundance Ion 106.15 (105.85 to 106.85): VV016297.D (-2497) (-)

Ion 91.15 (90.85 to 91.85): VV016297.D (-2497) (-)

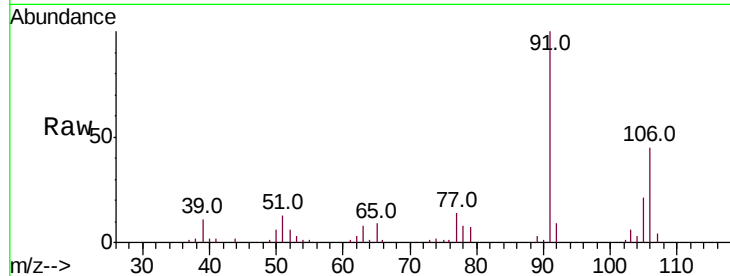




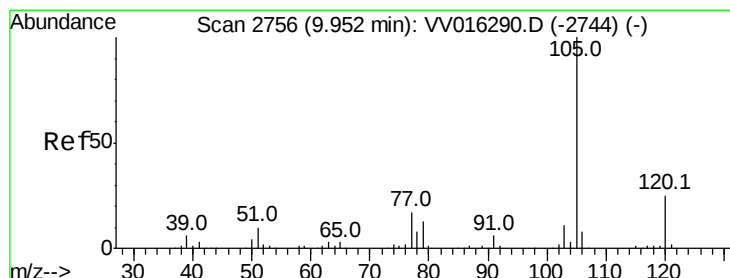
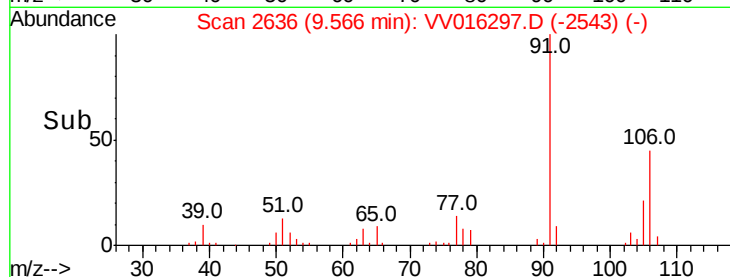
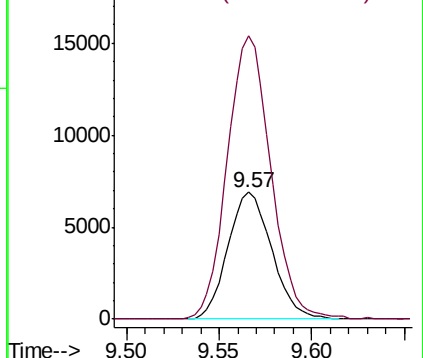
#56  
o-xylene  
Concen: 1.068 ug/L  
RT: 9.57 min Scan# 2636  
Delta R.T. 0.00 min  
Lab File: VV016297.D  
Acq: 29 May 2020 00:18

Instrument :  
MSVOA\_V  
ClientSampleId :  
BE4Z0DL

Tot Ion:106 Resp: 11320  
Ion Ratio Lower Upper  
106 100  
91 223.4 158.8 294.8

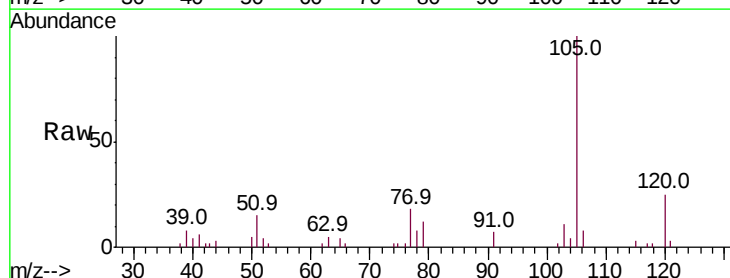


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VV0

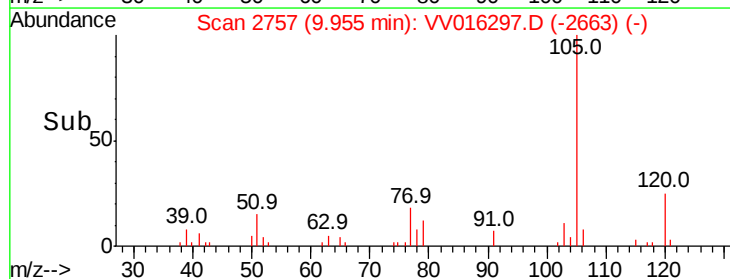
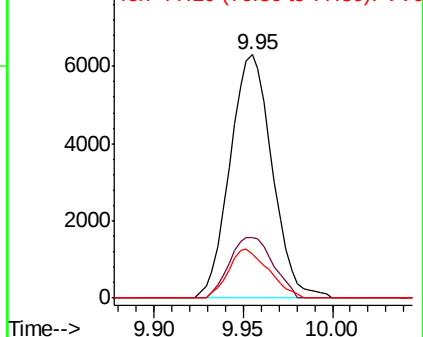


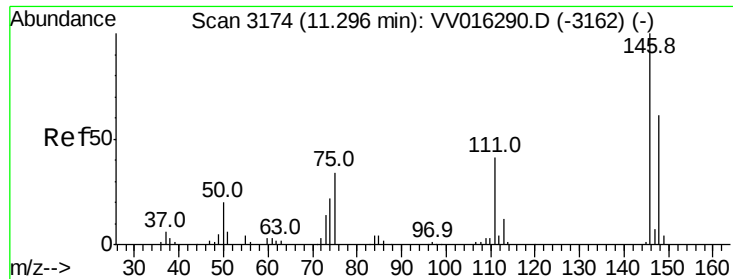
#58  
Isopropylbenzene  
Concen: 0.358 ug/L  
RT: 9.95 min Scan# 2757  
Delta R.T. 0.00 min  
Lab File: VV016297.D  
Acq: 29 May 2020 00:18

Tgt Ion:105 Resp: 10402  
Ion Ratio Lower Upper  
105 100  
120 25.7 20.9 31.3  
77 19.2 13.9 20.9



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): VV0





#64

1,4-Dichlorobenzene

Concen: 0.228 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

Instrument :

MSVOA\_V

ClientSampleId :

BE4Z0DL

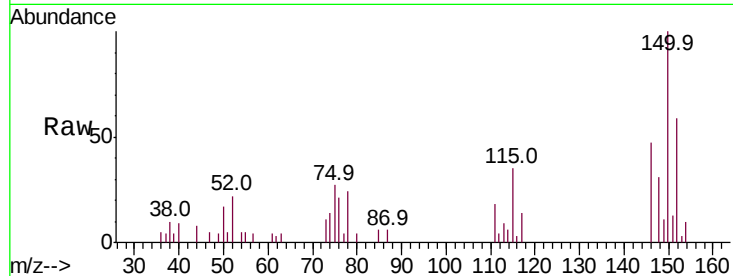
Tot Ion:146 Resp: 2812

Ion Ratio Lower Upper

146 100

111 38.0 28.3 52.7

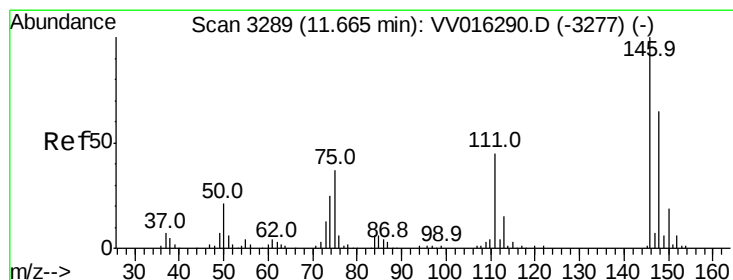
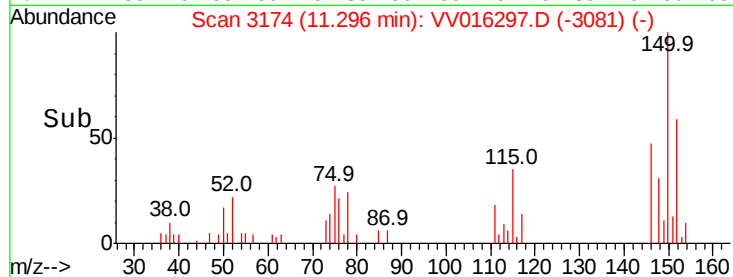
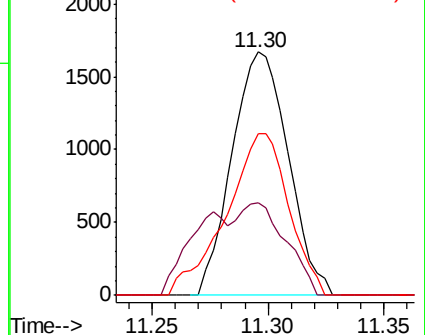
148 66.3 43.3 80.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dichlorobenzene

Concen: 0.177 ug/L

RT: 11.67 min Scan# 3290

Delta R.T. 0.00 min

Lab File: VV016297.D

Acq: 29 May 2020 00:18

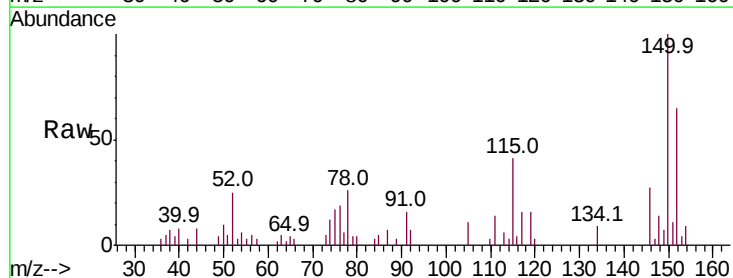
Tgt Ion:146 Resp: 1942

Ion Ratio Lower Upper

146 100

111 53.3 35.7 53.5

148 53.8 51.3 76.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

