

Data File : VV013858.D  
Acq On : 29 Nov 2019 18:53  
Operator : SY/MD  
Sample : K6028-03MSD  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
H0AA0MSD

Quant Time: Nov 29 22:39:23 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM110619WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 29 22:33:56 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 688872   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 671517   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 318498   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 196575   | 48.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 97.46%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 177782   | 54.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 108.28% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 374786   | 53.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 106.24% |
| 21) 2-Butanone-d5              | 3.92    | 46    | 321925   | 107.93   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 107.93% |
| 24) Chloroform-d               | 4.40    | 84    | 409772   | 46.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.58%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 266333   | 46.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.22%  |
| 32) Benzene-d6                 | 5.10    | 84    | 834205   | 46.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.16%  |
| 36) 1,2-Dichloropropane-d6     | 6.11    | 67    | 258187   | 44.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 88.88%  |
| 41) Toluene-d8                 | 7.36    | 98    | 723291   | 43.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.78%  |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 116142   | 43.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.00%  |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 225872   | 107.17   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 107.17% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 366210   | 50.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 100.34% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67   | 152   | 332567   | 52.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 104.76% |

#### Target Compounds

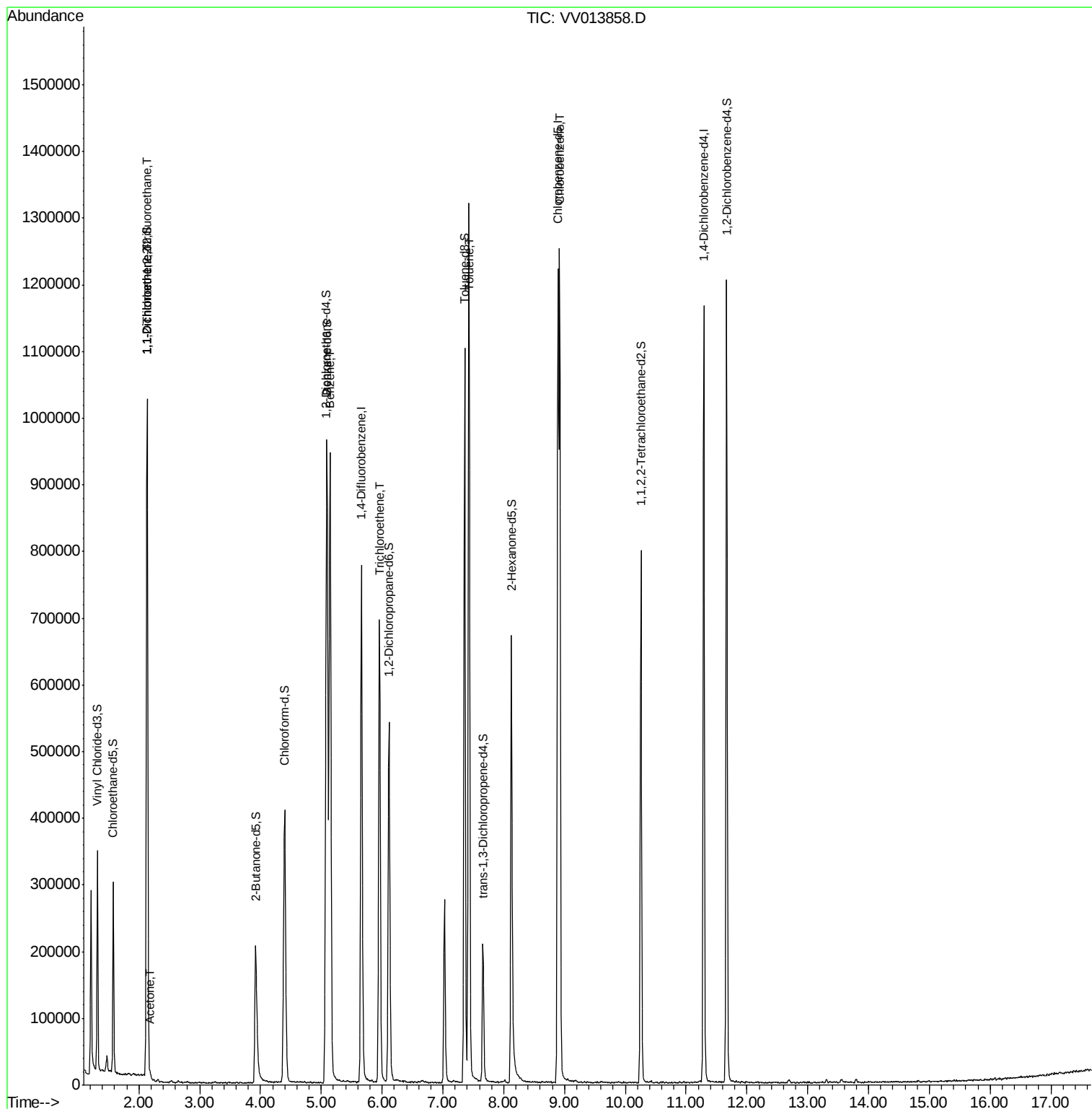
|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 3325   | 0.874 ug/L  | # 19   |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 194168 | 53.468 ug/L | 99     |
| 13) Acetone                    | 2.19 | 43  | 2837   | 1.019 ug/L  | 90     |
| 33) Benzene                    | 5.14 | 78  | 928501 | 48.697 ug/L | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 232039 | 45.795 ug/L | 97     |
| 42) Toluene                    | 7.43 | 91  | 951206 | 47.873 ug/L | 100    |
| 51) Chlorobenzene              | 8.92 | 112 | 658461 | 49.859 ug/L | 98     |

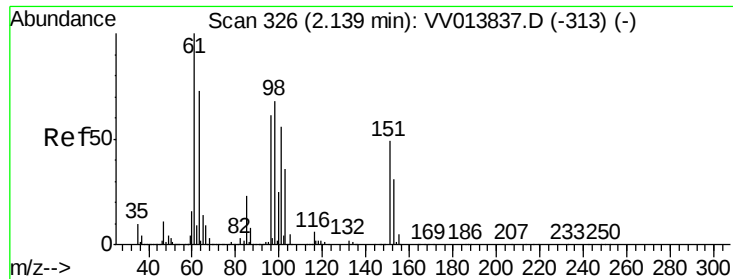
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.874 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV013858.D

Acq: 29 Nov 2019 18:53

Instrument :

MSVOA\_V

ClientSampleId :

H0AA0MSD

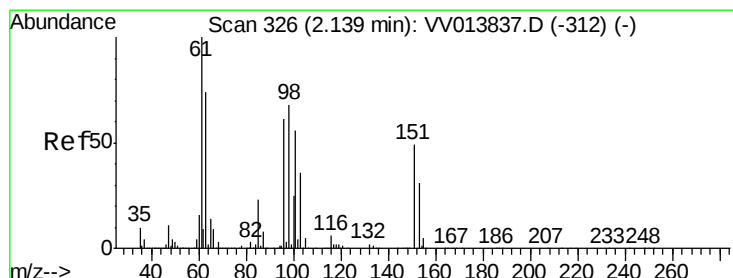
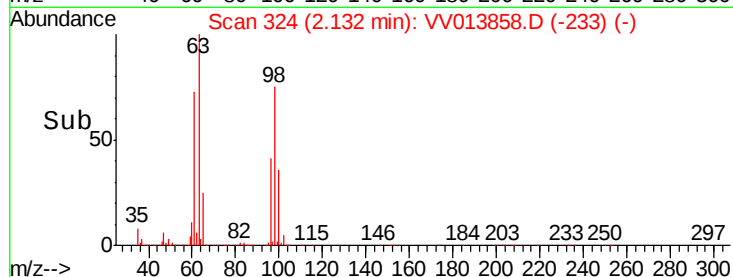
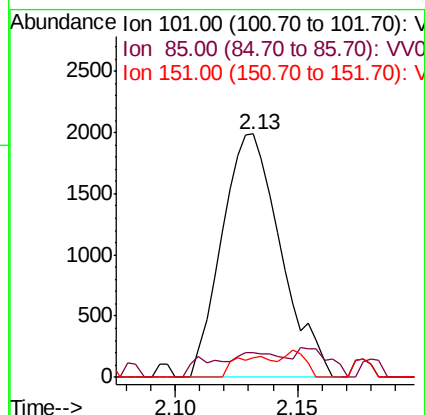
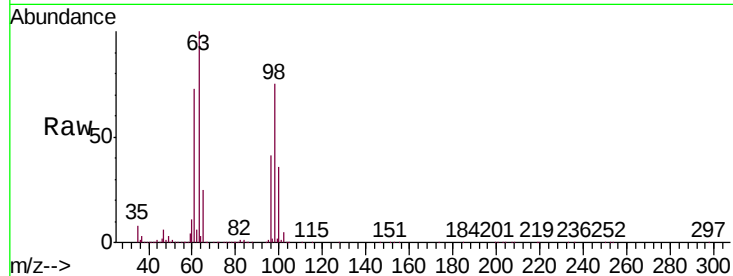
Tgt Ion: 101 Resp: 3325

Ion Ratio Lower Upper

101 100

85 3.5 33.3 49.9#

151 3.4 69.5 104.3#



#12

1,1-Dichloroethene

Concen: 53.468 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013858.D

Acq: 29 Nov 2019 18:53

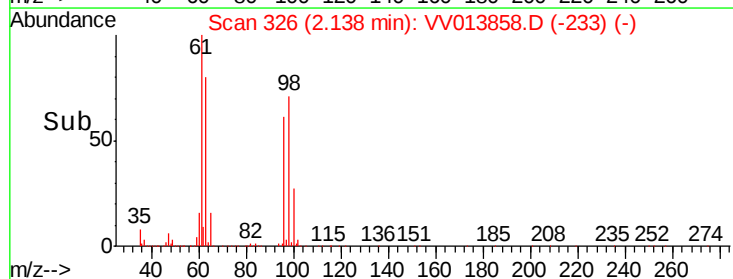
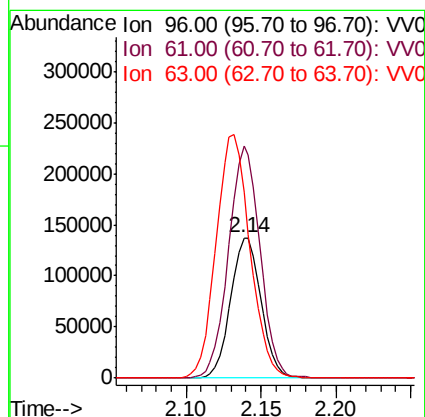
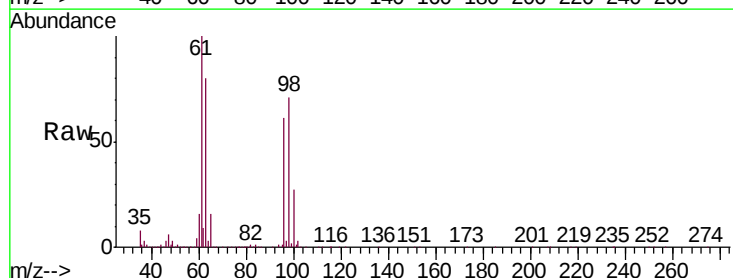
Tgt Ion: 96 Resp: 194168

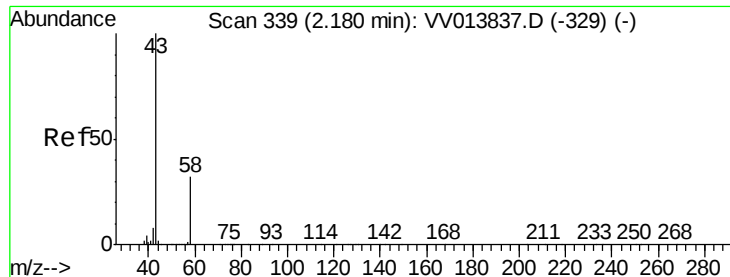
Ion Ratio Lower Upper

96 100

61 164.9 116.9 217.1

63 132.2 91.5 169.9





#13

Acetone

Concen: 1.019 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.01 min

Lab File: VV013858.D

Acq: 29 Nov 2019 18:53

Instrument :

MSVOA\_V

ClientSampleId :

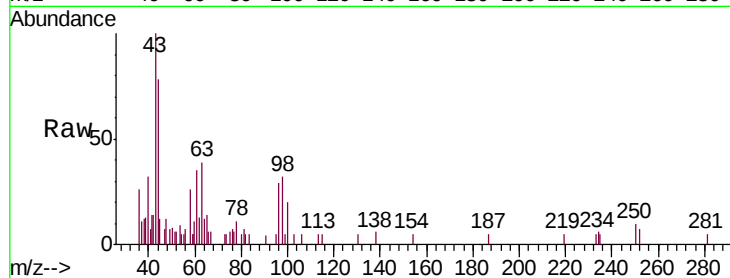
H0AA0MSD

Tgt Ion: 43 Resp: 2837

Ion Ratio Lower Upper

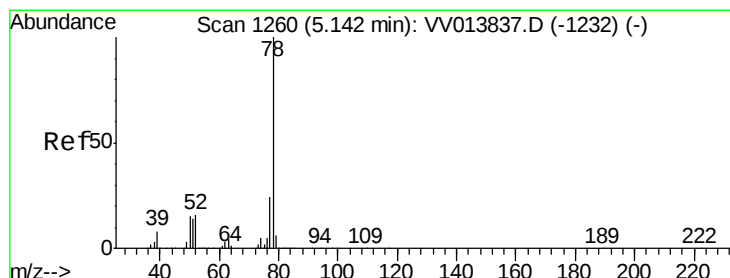
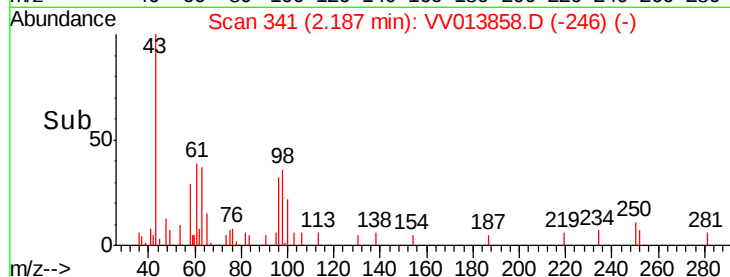
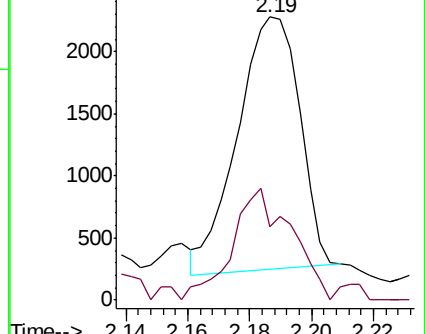
43 100

58 26.9 0.0 65.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#33

Benzene

Concen: 48.697 ug/L

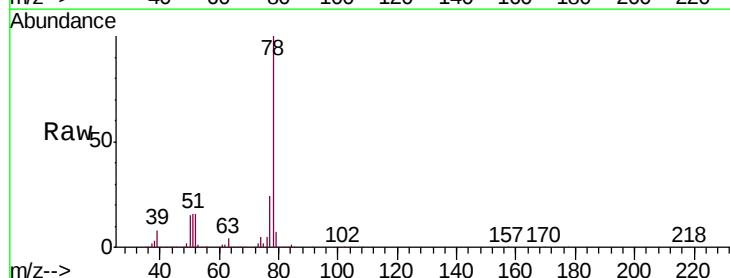
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

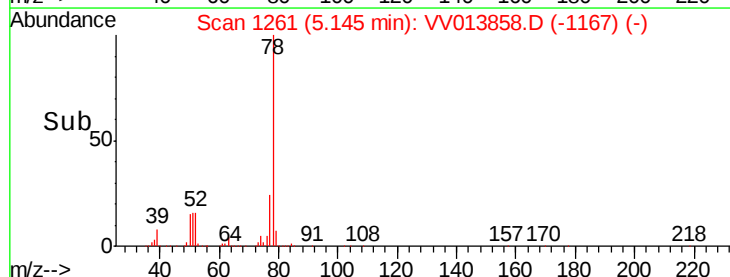
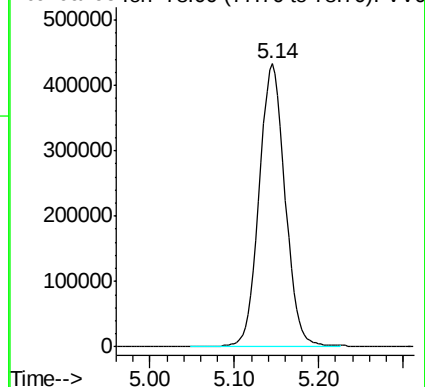
Lab File: VV013858.D

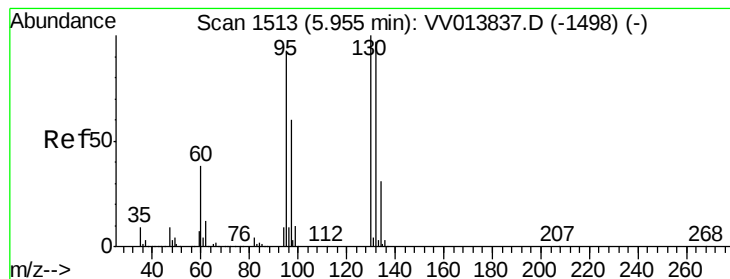
Acq: 29 Nov 2019 18:53

Tgt Ion: 78 Resp: 928501



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 45.795 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV013858.D

Acq: 29 Nov 2019 18:53

Instrument :

MSVOA\_V

ClientSampleId :

H0AA0MSD

Tgt Ion: 95 Resp: 232039

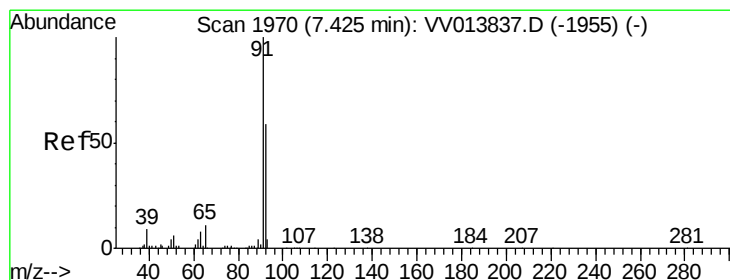
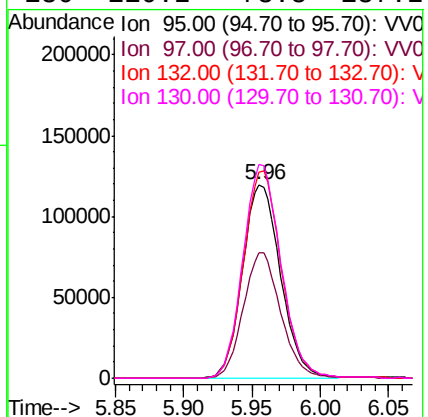
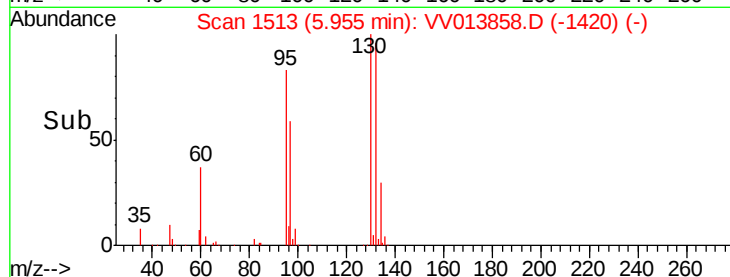
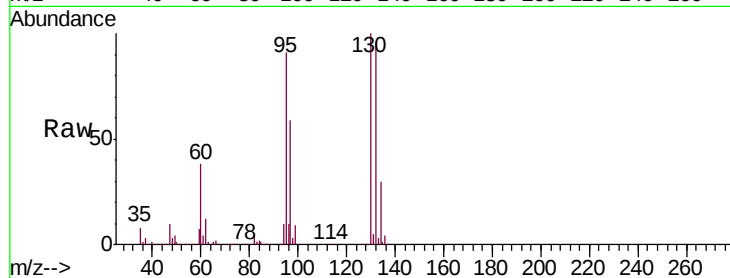
Ion Ratio Lower Upper

95 100

97 64.7 45.1 83.7

132 106.1 71.7 133.1

130 110.2 73.8 137.2



#42

Toluene

Concen: 47.873 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV013858.D

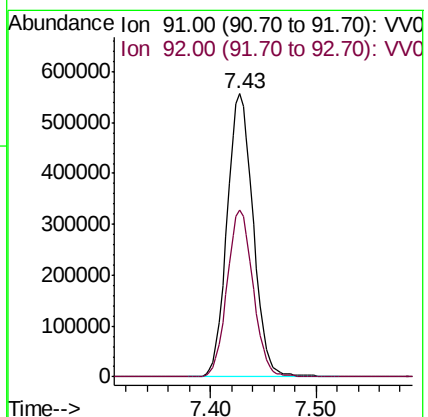
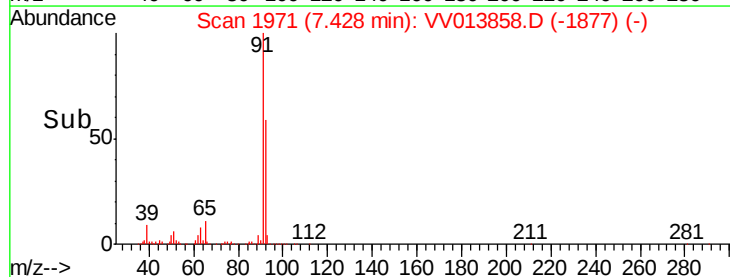
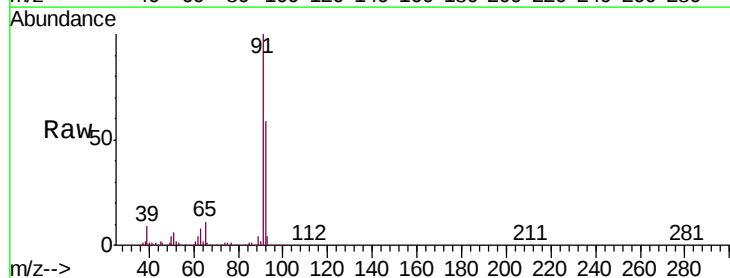
Acq: 29 Nov 2019 18:53

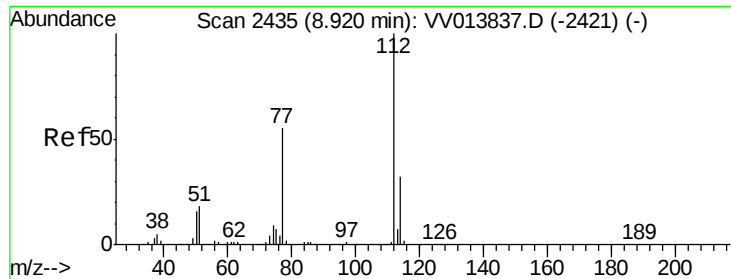
Tgt Ion: 91 Resp: 951206

Ion Ratio Lower Upper

91 100

92 59.0 41.3 76.7





#51

Chlorobenzene

Concen: 49.859 ug/L

RT: 8.92 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VV013858.D

Acq: 29 Nov 2019 18:53

Instrument :

MSVOA\_V

ClientSampleId :

H0AA0MSD

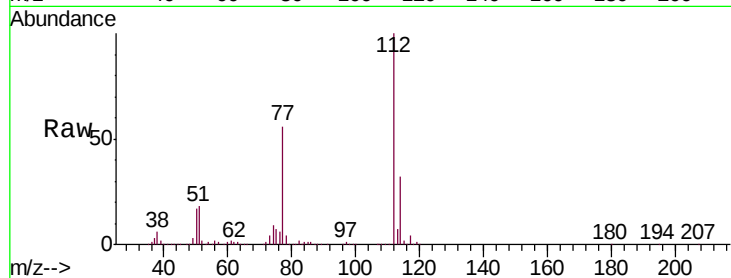
Tgt Ion:112 Resp: 658461

Ion Ratio Lower Upper

112 100

114 32.3 22.8 42.4

77 55.8 46.7 70.1



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0

