

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102219\  
 Data File : VV013281.D  
 Acq On : 22 Oct 2019 15:59  
 Operator : SY/MD  
 Sample : K5457-01  
 Misc : 25.00ML/MSVOA V/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Oct 23 01:26:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR102119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Oct 23 01:23:09 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 438653   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 479898   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 251153   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 173675   | 5.37     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 107.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 145752   | 5.46     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 109.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 220452   | 3.83     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 76.60%   |
| 20) 2-Butanone-d5              | 3.97   | 46    | 455163   | 73.29    | ug/L | 0.02     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 146.58%# |
| 24) Chloroform-d               | 4.40   | 84    | 399273   | 5.25     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 105.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 191114   | 5.42     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 108.40%  |
| 32) Benzene-d6                 | 5.10   | 84    | 792977   | 5.10     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 239828   | 5.13     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 102.60%  |
| 41) Toluene-d8                 | 7.36   | 98    | 650523   | 4.52     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 90.40%   |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 68901    | 3.89     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 77.80%   |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 329802   | 52.31    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 104.62%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 171750   | 5.09     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 267400   | 5.47     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 109.40%  |

## Target Compounds

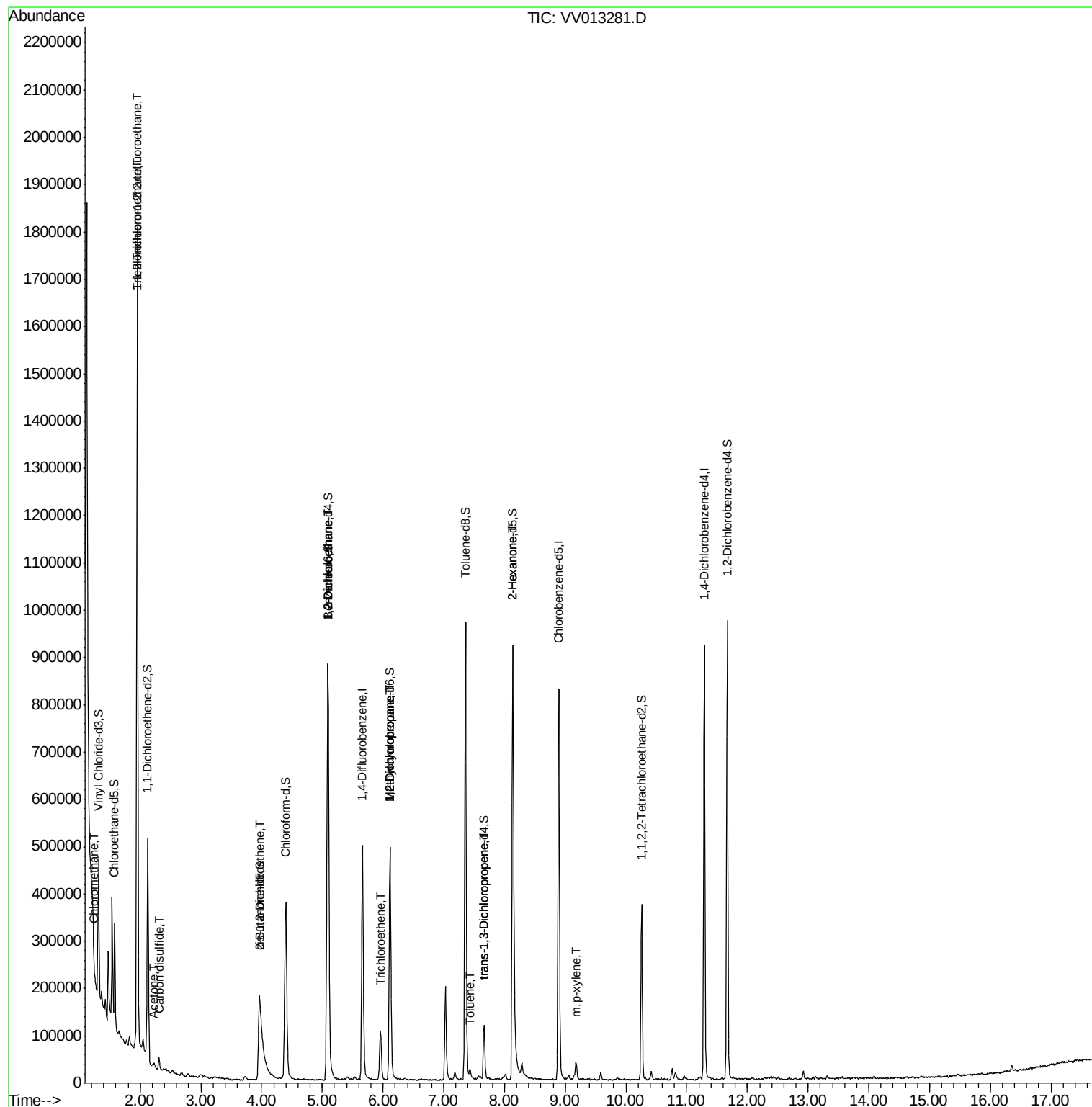
| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 3) Chloromethane               | 1.25 | 50   | 4997     | 0.119 | ug/L   | 100    |
| 9) Trichlorofluoromethane      | 1.95 | 101  | 105553   | 1.723 | ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 1.95 | 101  | 105553   | 2.916 | ug/L # | 14     |
| 13) Acetone                    | 2.24 | 43   | 4797     | 1.494 | ug/L   | 75     |
| 14) Carbon disulfide           | 2.31 | 76   | 29756    | 0.301 | ug/L # | 94     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96   | 23445    | 0.539 | ug/L # | 92     |
| 27) 1,2-Dichloroethane         | 5.09 | 62   | 4328     | 0.094 | ug/L   | 100    |
| 34) Trichloroethene            | 5.96 | 95   | 35094    | 0.714 | ug/L   | 98     |
| 35) Methylcyclohexane          | 6.12 | 83   | 61268    | 0.810 | ug/L # | 19     |
| 37) 1,2-Dichloropropane        | 6.12 | 63   | 25855    | 0.581 | ug/L # | 87     |
| 42) Toluene                    | 7.43 | 91   | 12811    | 0.067 | ug/L   | 95     |
| 44) trans-1,3-Dichloropropene  | 7.66 | 75   | 3230     | 0.068 | ug/L   | 96     |
| 48) 2-Hexanone                 | 8.14 | 43   | 45471    | 2.799 | ug/L # | 74     |
| 53) m,p-xylene                 | 9.18 | 106  | 10464    | 0.136 | ug/L   | 93     |

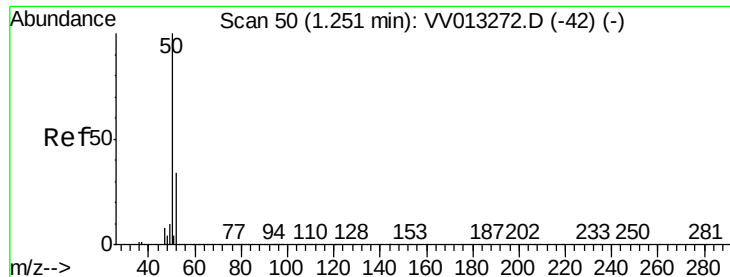
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR102119WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Oct 23 01:23:09 2019  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.119 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV013281.D

Acq: 22 Oct 2019 15:59

Instrument :

MSVOA\_V

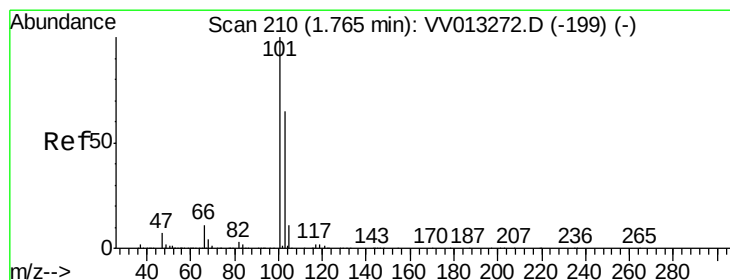
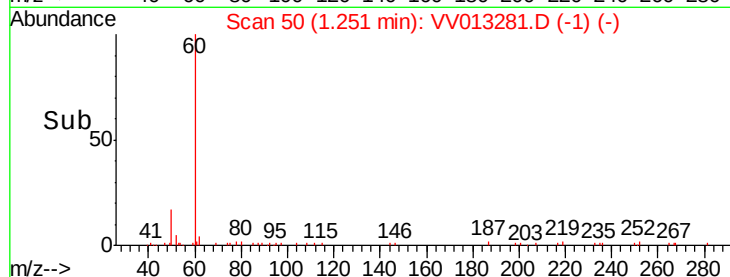
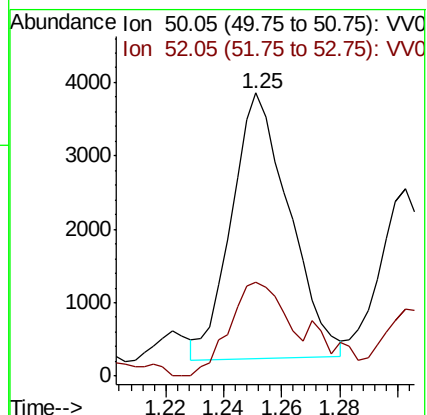
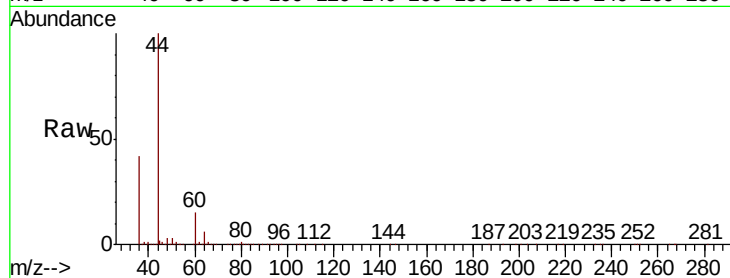
ClientSampleId :

Tot Ion: 50 Resp: 4997

Ion Ratio Lower Upper

50 100

52 33.1 23.3 43.3



#9

Trichlorofluoromethane

Concen: 1.723 ug/L

RT: 1.95 min Scan# 268

Delta R.T. 0.19 min

Lab File: VV013281.D

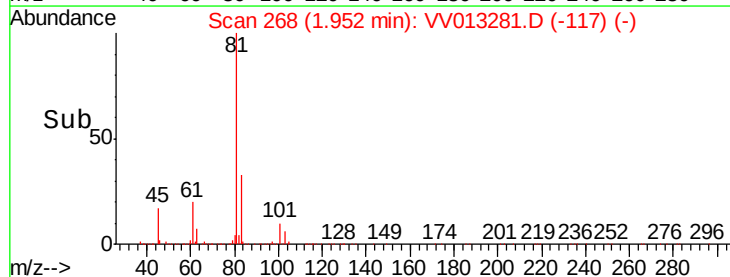
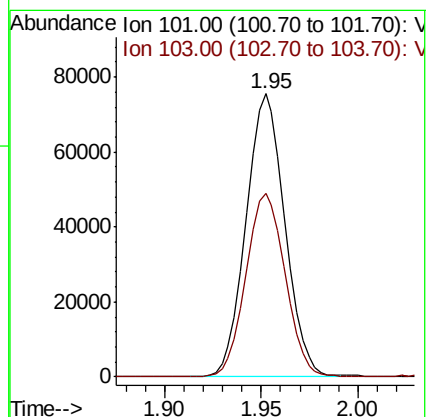
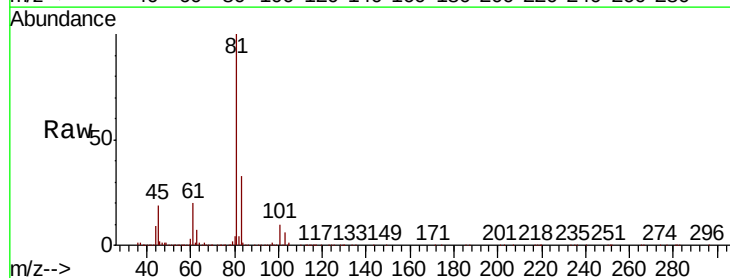
Acq: 22 Oct 2019 15:59

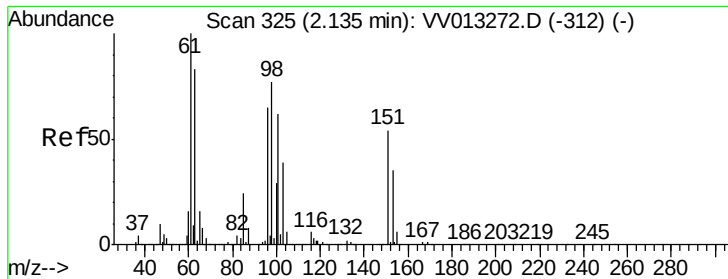
Tgt Ion: 101 Resp: 105553

Ion Ratio Lower Upper

101 100

103 65.1 52.8 79.2





#10

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

Concen: 2.916 ug/L

RT: 1.95 min Scan# 268

Delta R.T. -0.18 min

Lab File: VV013281.D

Acq: 22 Oct 2019 15:59

Instrument :

MSVOA\_V

ClientSampleId :

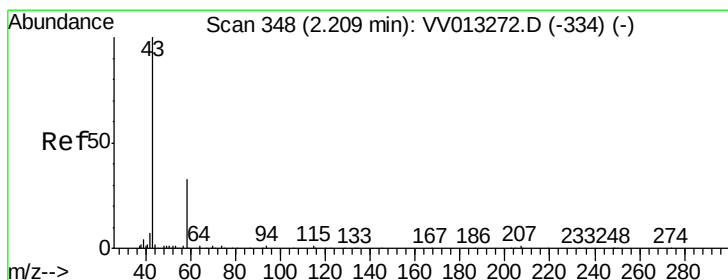
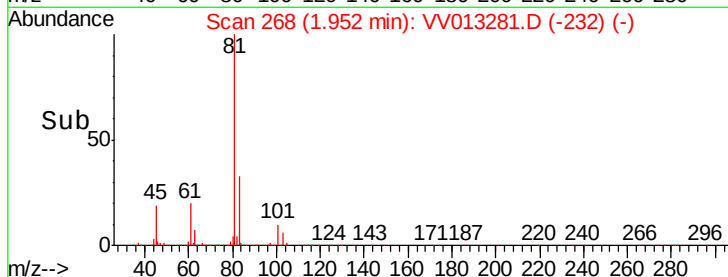
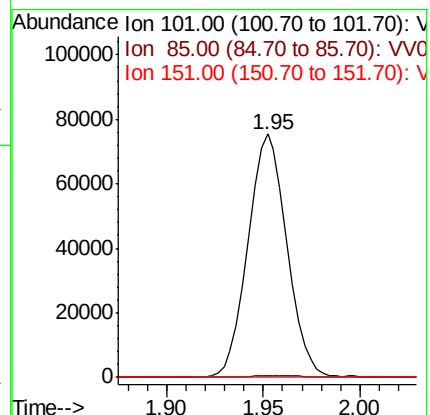
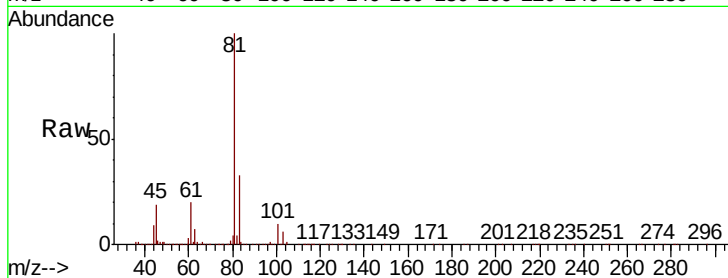
Tot Ion:101 Resp: 105553

Ion Ratio Lower Upper

101 100

85 1.0 31.8 47.8#

151 0.0 72.9 109.3#



#13

Acetone

Concen: 1.494 ug/L

RT: 2.24 min Scan# 357

Delta R.T. 0.03 min

Lab File: VV013281.D

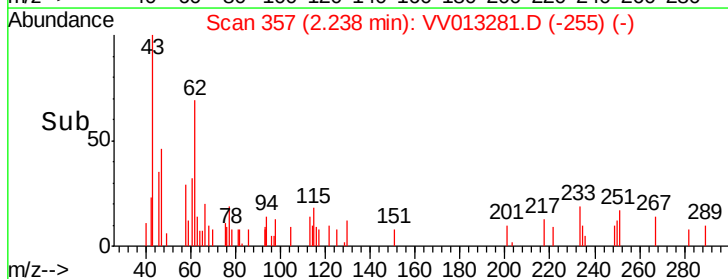
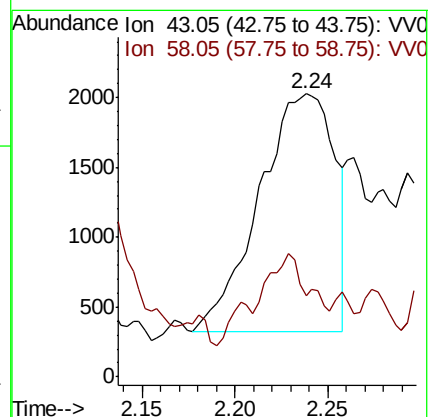
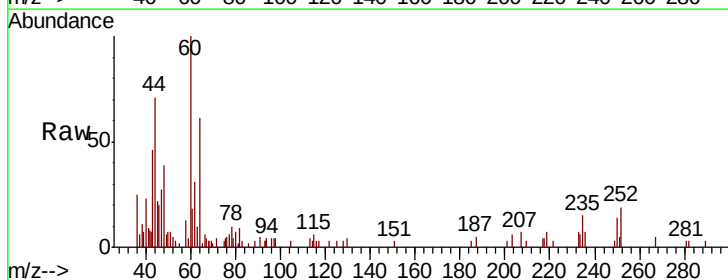
Acq: 22 Oct 2019 15:59

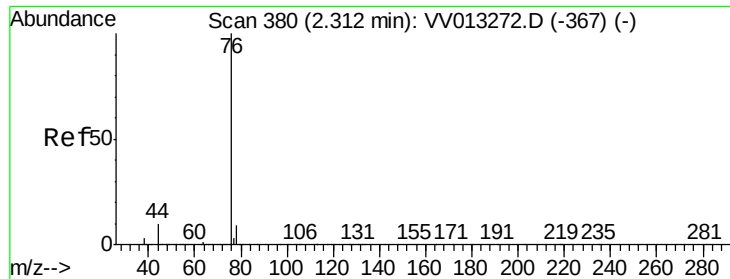
Tgt Ion: 43 Resp: 4797

Ion Ratio Lower Upper

43 100

58 23.2 0.0 26.2





#14

Carbon disulfide

Concen: 0.301 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV013281.D

Acq: 22 Oct 2019 15:59

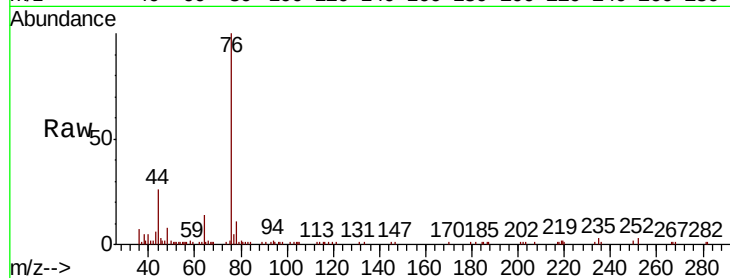
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 76 Resp: 29756

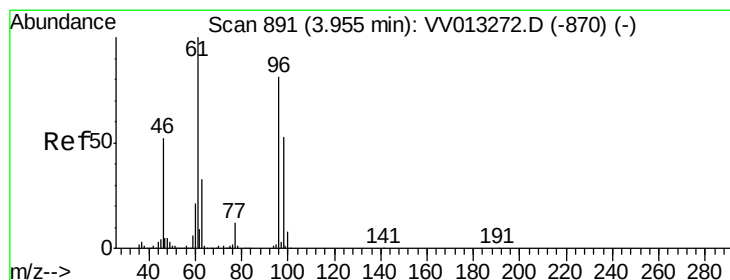
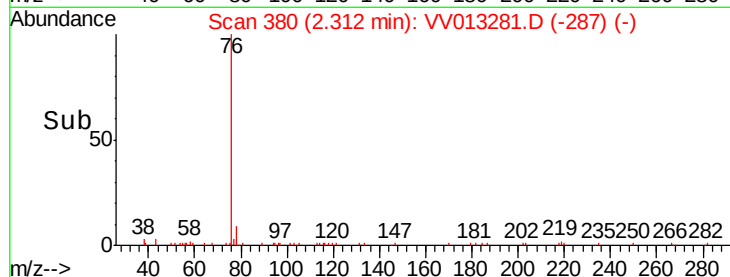
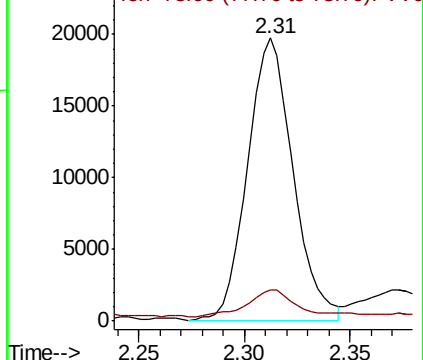
Ion Ratio Lower Upper

76 100

78 11.2 7.3 10.9#



Abundance Ion 76.05 (75.75 to 76.75): VV0  
Ion 78.00 (77.70 to 78.70): VV0



#22

cis-1,2-Dichloroethene

Concen: 0.539 ug/L

RT: 3.96 min Scan# 892

Delta R.T. 0.00 min

Lab File: VV013281.D

Acq: 22 Oct 2019 15:59

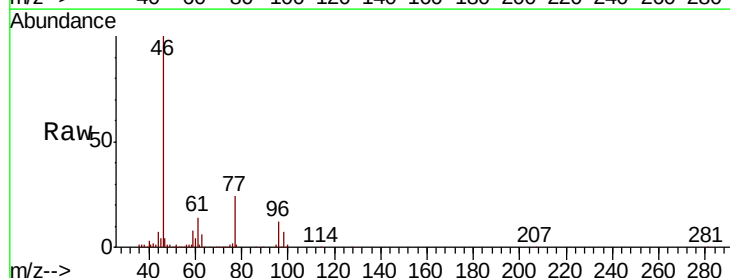
Tgt Ion: 96 Resp: 23445

Ion Ratio Lower Upper

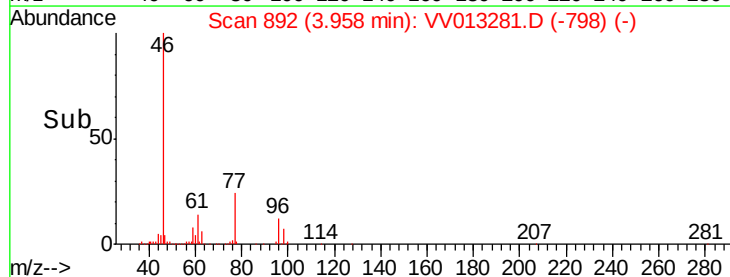
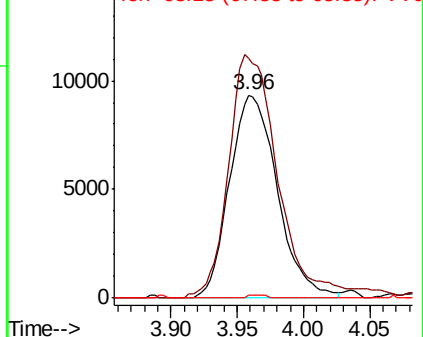
96 100

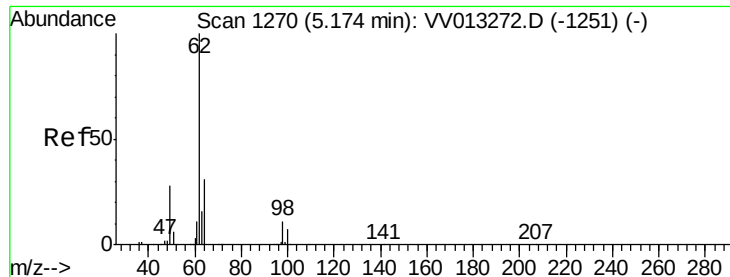
61 118.6 77.3 143.7

68 1.2 0.1 0.1#



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





#27

1,2-Dichloroethane

Concen: 0.094 ug/L

RT: 5.09 min Scan# 1244

Delta R.T. -0.08 min

Lab File: VV013281.D

Acq: 22 Oct 2019 15:59

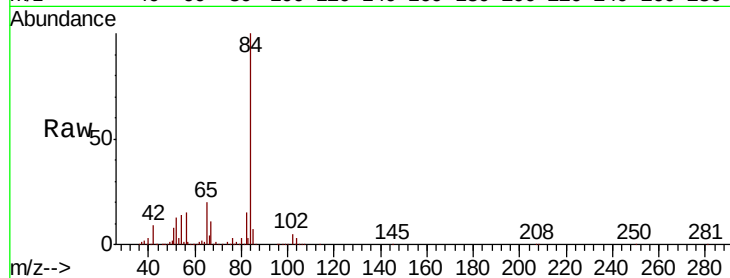
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 62 Resp: 4328

Ion Ratio Lower Upper

62 100

98 10.3 8.3 12.5



Abundance Ion 62.00 (61.70 to 62.70): VV013272.D (-1251) (-)

Ion 98.05 (97.75 to 98.75): VV013272.D (-1251) (-)

5.09

2000

1500

1000

500

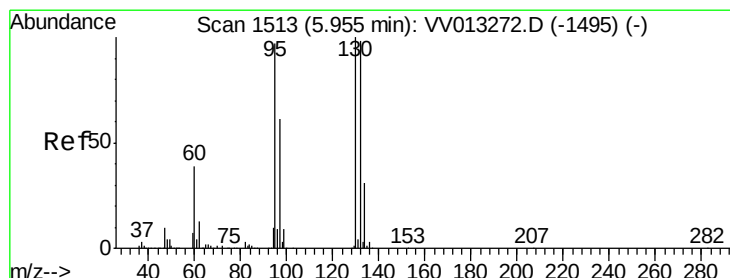
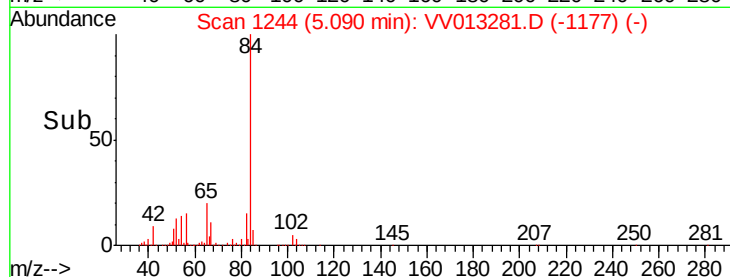
0

Time-->

5.05

5.10

5.15



#34

Trichloroethene

Concen: 0.714 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV013281.D

Acq: 22 Oct 2019 15:59

Tgt Ion: 95 Resp: 35094

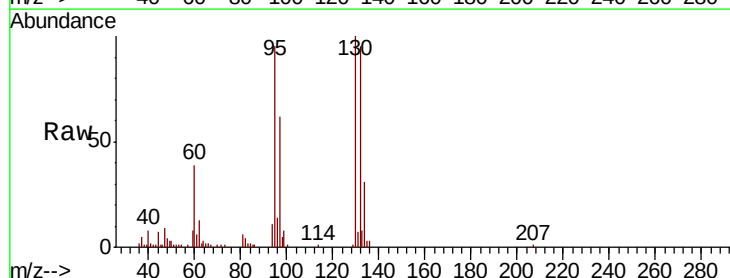
Ion Ratio Lower Upper

95 100

97 65.6 45.2 84.0

132 100.3 70.6 131.2

130 105.1 75.5 140.3



Abundance Ion 95.00 (94.70 to 95.70): VV013272.D (-1495) (-)

Ion 96.95 (96.65 to 97.65): VV013272.D (-1495) (-)

Ion 131.95 (131.65 to 132.65): VV013272.D (-1495) (-)

Ion 129.95 (129.65 to 130.65): VV013272.D (-1495) (-)

30000

25000

20000

15000

10000

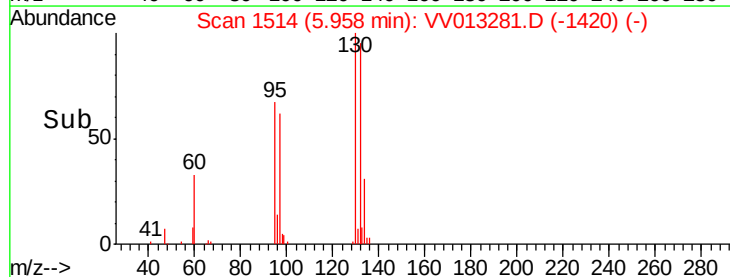
5000

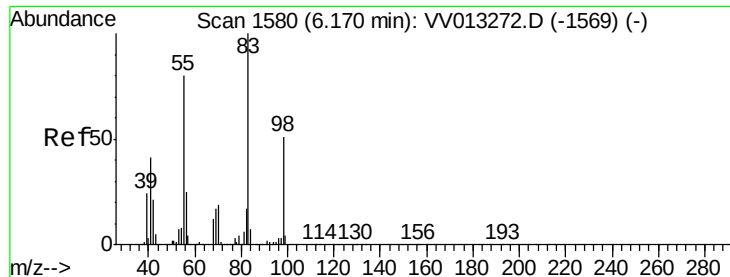
0

Time-->

5.90

6.00

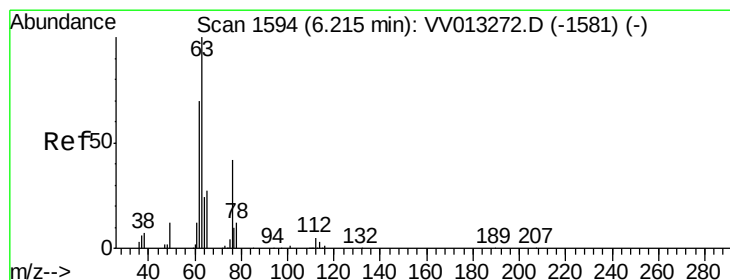
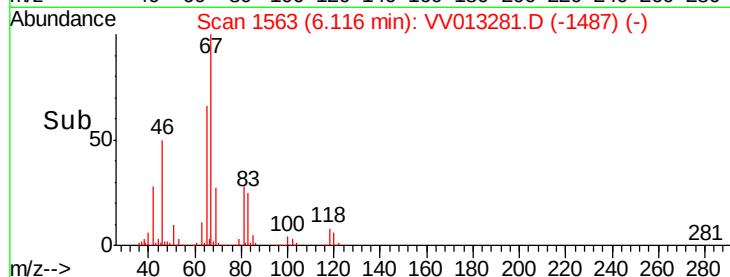
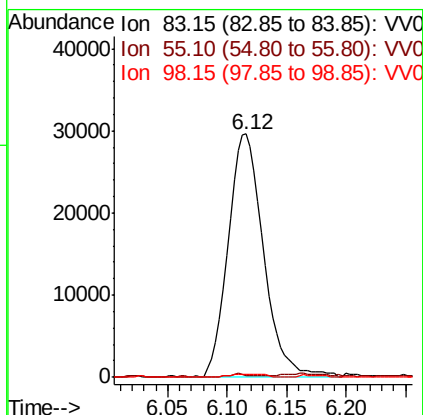
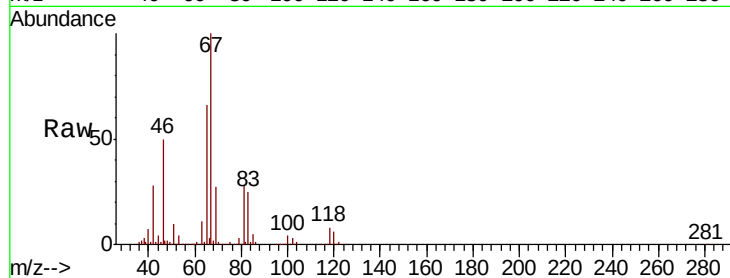




#35  
Methylvlcyclohexane  
Concen: 0.810 ug/L  
RT: 6.12 min Scan# 1563  
Delta R.T. -0.05 min  
Lab File: VV013281.D  
Acq: 22 Oct 2019 15:59

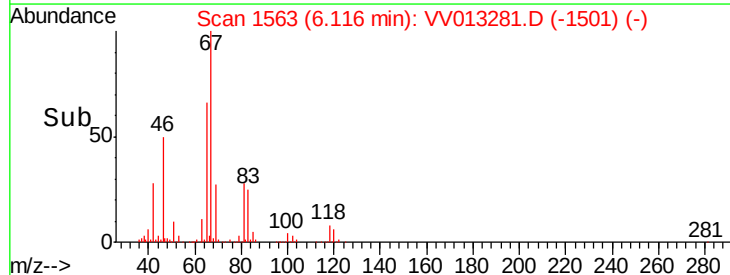
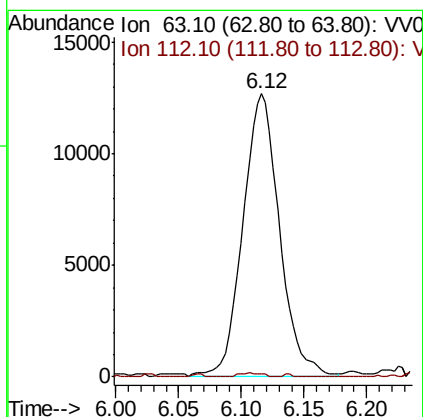
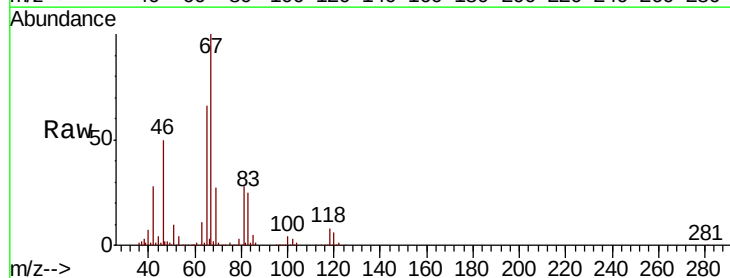
Instrument :  
MSVOA\_V  
ClientSampleId :

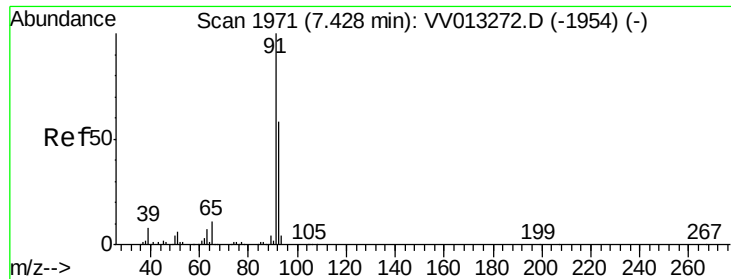
Tot Ion: 83 Resp: 61268  
Ion Ratio Lower Upper  
83 100  
55 0.8 62.4 93.6#  
98 1.3 39.2 58.8#



#37  
1,2-Dichloropropane  
Concen: 0.581 ug/L  
RT: 6.12 min Scan# 1563  
Delta R.T. -0.10 min  
Lab File: VV013281.D  
Acq: 22 Oct 2019 15:59

Tgt Ion: 63 Resp: 25855  
Ion Ratio Lower Upper  
63 100  
112 0.8 4.1 6.1#





#42

Toluene

Concen: 0.067 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV013281.D

Acq: 22 Oct 2019 15:59

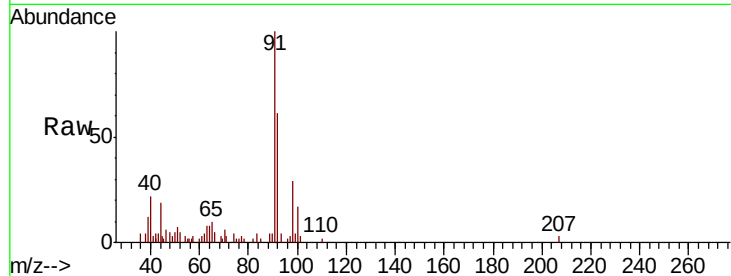
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 12811

Ion Ratio Lower Upper

91 100

92 61.3 40.5 75.1



Abundance Ion 91.15 (90.85 to 91.85): VV013272.D (-1954) (-)

Ion 92.15 (91.85 to 92.85): VV013281.D (-1878) (-)

7.43

6000

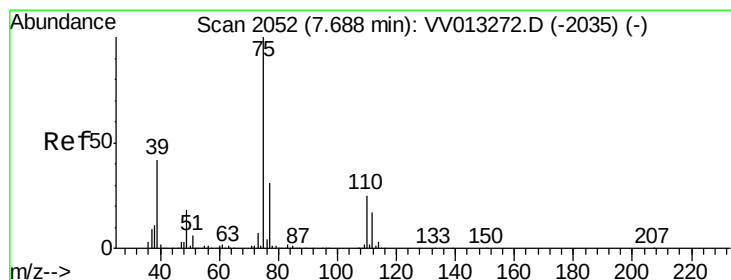
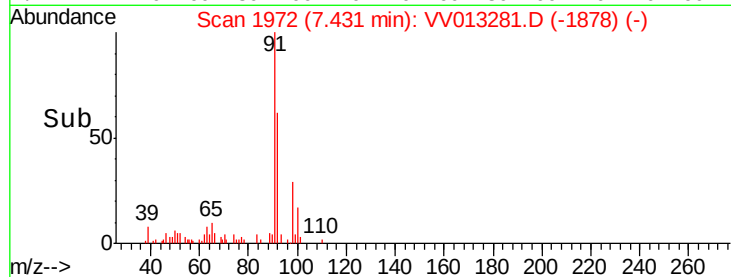
4000

2000

0

7.40 7.45 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.068 ug/L

RT: 7.66 min Scan# 2043

Delta R.T. -0.03 min

Lab File: VV013281.D

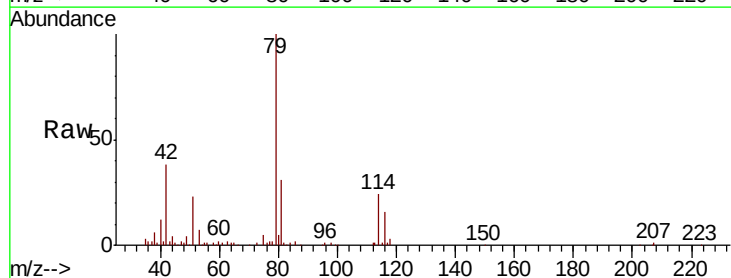
Acq: 22 Oct 2019 15:59

Tgt Ion: 75 Resp: 3230

Ion Ratio Lower Upper

75 100

77 33.5 21.8 40.6



Abundance Ion 75.05 (74.75 to 75.75): VV013272.D (-2035) (-)

Ion 77.05 (76.75 to 77.75): VV013281.D (-1959) (-)

7.66

2000

1500

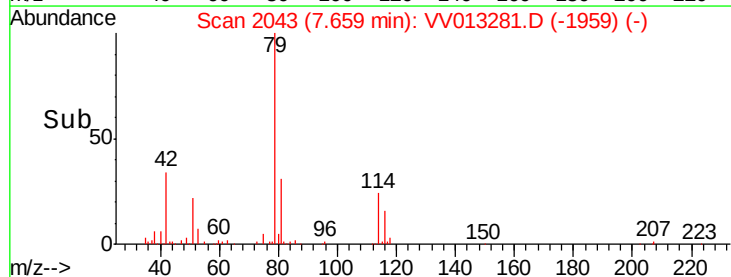
1000

500

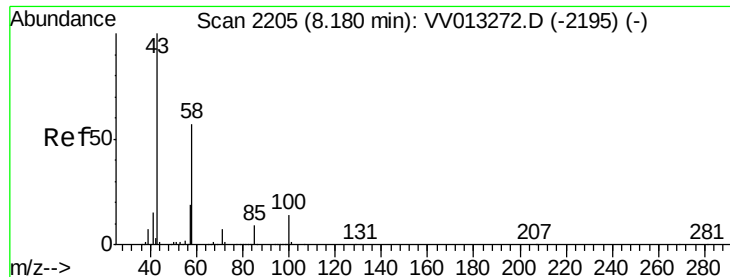
0

7.60 7.65 7.70

Time-->



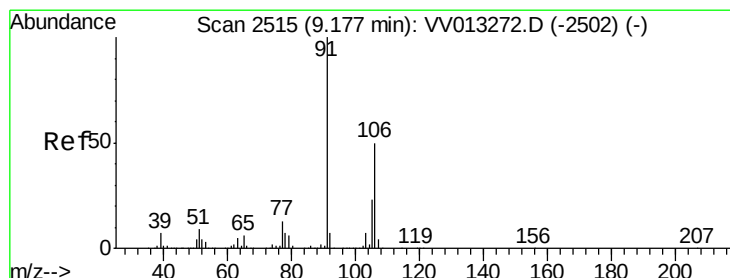
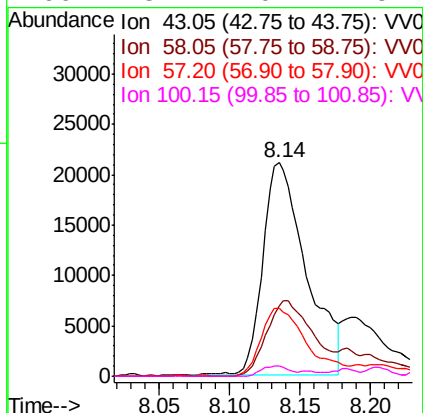
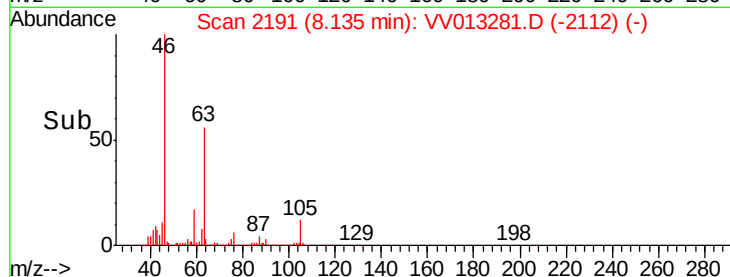
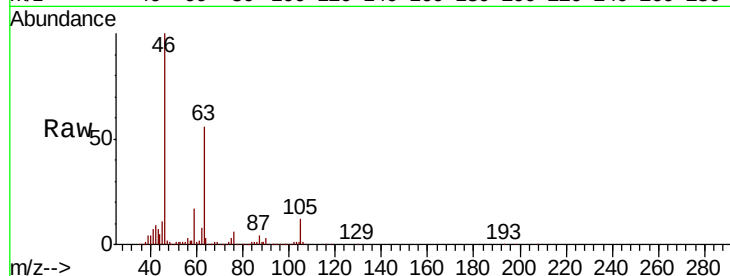




#48  
2-Hexanone  
Concen: 2.799 ug/L  
RT: 8.14 min Scan# 2191  
Delta R.T. -0.04 min  
Lab File: VV013281.D  
Acq: 22 Oct 2019 15:59

Instrument :  
MSVOA\_V  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 38.3  | 45.1  | 67.7# |
| 57      | 33.4  | 15.5  | 23.3# |
| 100     | 3.2   | 10.2  | 15.2# |



#53  
m,p-xylene  
Concen: 0.136 ug/L  
RT: 9.18 min Scan# 2516  
Delta R.T. 0.00 min  
Lab File: VV013281.D  
Acq: 22 Oct 2019 15:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 206.9 | 137.8 | 255.8 |

