

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122420\  
 Data File : VV019829.D  
 Acq On : 24 Dec 2020 11:45  
 Operator : SY/MD  
 Sample : L5173-15  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG4P5

Quant Time: Dec 25 05:37:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 25 05:36:52 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.62  | 114  | 639963   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.86  | 117  | 609204   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.26 | 152  | 289768   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 219204   | 47.77    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 95.54%   |
| 7) Chloroethane-d5             | 1.57    | 69    | 184409   | 50.95    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 101.90%  |
| 11) 1,1-Dichloroethene-d2      | 2.11    | 63    | 327513   | 38.45    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 76.90%   |
| 21) 2-Butanone-d5              | 3.89    | 46    | 330021   | 132.31   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 132.31%# |
| 24) Chloroform-d               | 4.35    | 84    | 410275   | 49.61    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.22%   |
| 26) 1,2-Dichloroethane-d4      | 5.03    | 65    | 286846   | 53.07    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 106.14%  |
| 32) Benzene-d6                 | 5.05    | 84    | 819957   | 50.47    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.94%  |
| 36) 1,2-Dichloropropane-d6     | 6.07    | 67    | 263740   | 51.82    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 103.64%  |
| 41) Toluene-d8                 | 7.32    | 98    | 707426   | 48.36    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.72%   |
| 43) trans-1,3-Dichloropropene- | 7.62    | 79    | 114579   | 39.58    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 79.16%   |
| 47) 2-Hexanone-d5              | 8.09    | 63    | 176301   | 88.26    | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 88.26%   |
| 57) 1,1,2,2-Tetrachloroethane- | 10.22   | 84    | 302042   | 43.87    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 87.74%   |
| 64) 1,2-Dichlorobenzene-d4     | 11.63   | 152   | 258020   | 47.63    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.26%   |

## Target Compounds

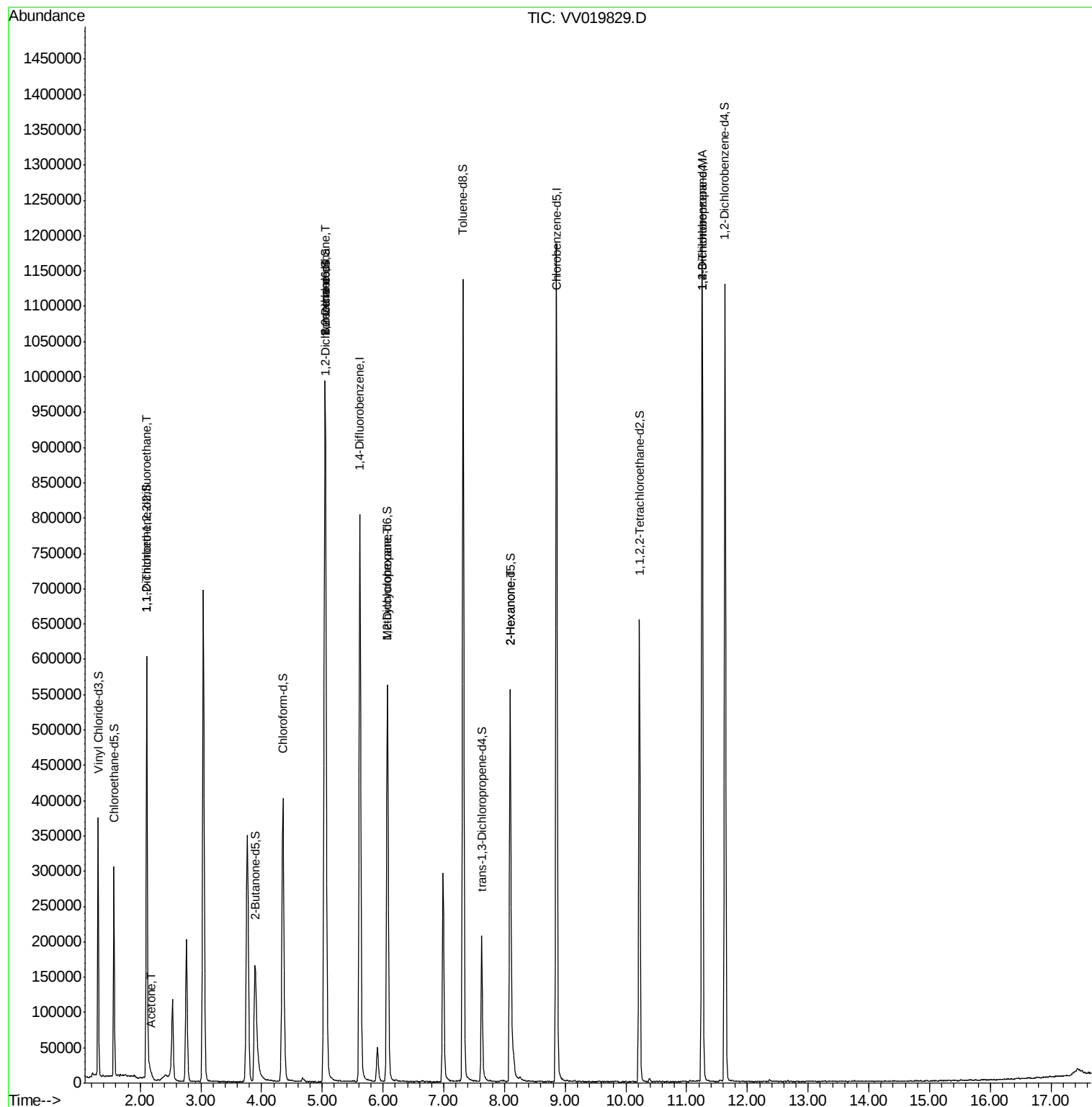
|                                |       |     |       |              | Ovalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.11  | 101 | 2675  | 0.720 ug/L # | 22     |
| 13) Acetone                    | 2.19  | 43  | 5823  | 2.740 ug/L   | 88     |
| 27) 1,2-Dichloroethane         | 5.05  | 62  | 5685  | 0.848 ug/L   | 95     |
| 35) Methylcyclohexane          | 6.07  | 83  | 62205 | 8.706 ug/L # | 17     |
| 48) 2-Hexanone                 | 8.09  | 43  | 23866 | 4.689 ug/L # | 79     |
| 59) 1,2,3-Trichloropropane     | 11.25 | 75  | 41424 | 7.163 ug/L   | 97     |

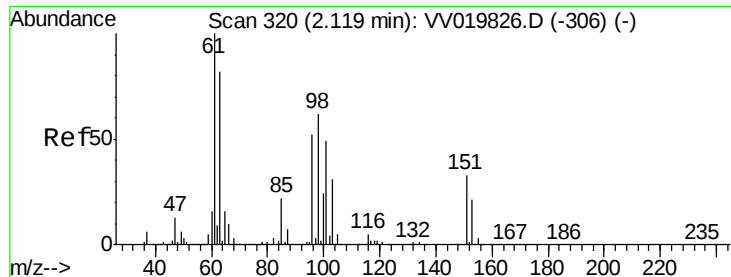
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
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BG4P5

Quant Time: Dec 25 05:37:48 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 25 05:36:52 2020  
Response via : Initial Calibration





#10

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

Concen: 0.720 ug/L

RT: 2.11 min Scan# 317

Delta R.T. -0.01 min

Lab File: VV019829.D

Acq: 24 Dec 2020 11:45

Instrument :

MSVOA\_V

ClientSampleId :

BG4P5

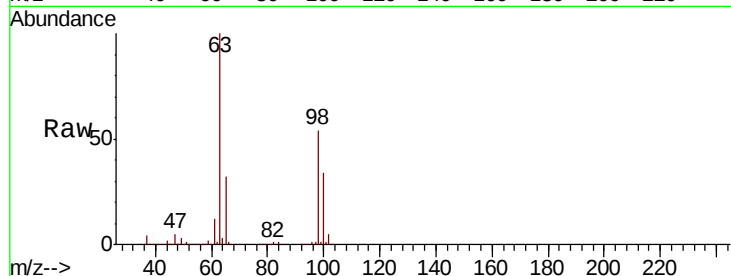
Tot Ion:101 Resp: 2675

Ion Ratio Lower Upper

101 100

85 1.5 35.0 52.4#

151 0.0 55.8 83.8#



Abundance Ion 101.00 (100.70 to 101.70): VV019829.D (-227) (-)

Ion 85.00 (84.70 to 85.70): VV019829.D (-227) (-)

Ion 151.00 (150.70 to 151.70): VV019829.D (-227) (-)

2.11

2000

1500

1000

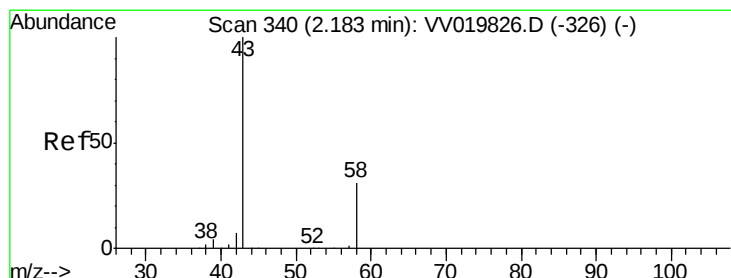
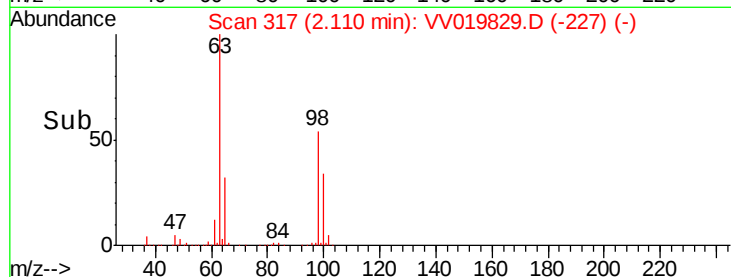
500

0

Time-->

2.10

2.15



#13

Acetone

Concen: 2.740 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.01 min

Lab File: VV019829.D

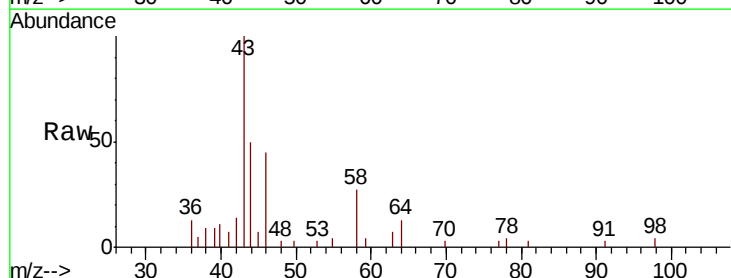
Acq: 24 Dec 2020 11:45

Tgt Ion: 43 Resp: 5823

Ion Ratio Lower Upper

43 100

58 37.3 0.0 61.6



Abundance Ion 43.00 (42.70 to 43.70): VV019829.D (-247) (-)

Ion 58.00 (57.70 to 58.70): VV019829.D (-247) (-)

4000

3000

2000

1000

0

Time-->

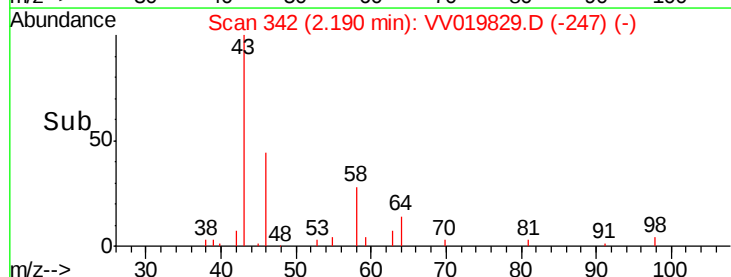
2.14

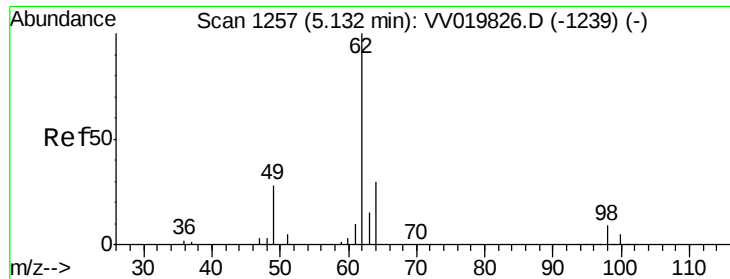
2.16

2.18

2.20

2.22

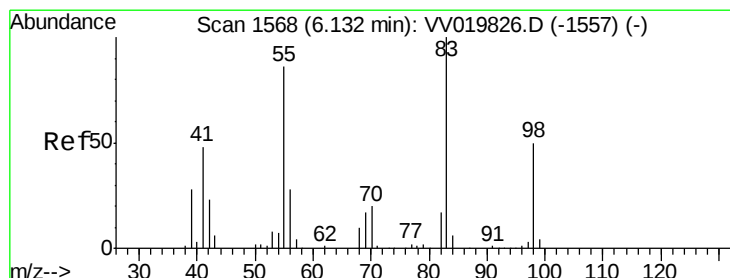
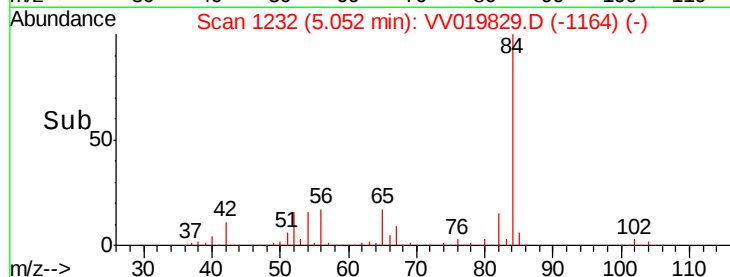
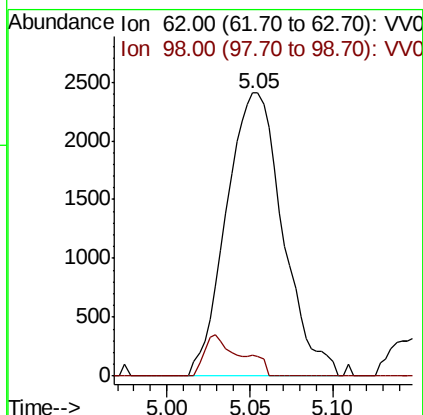
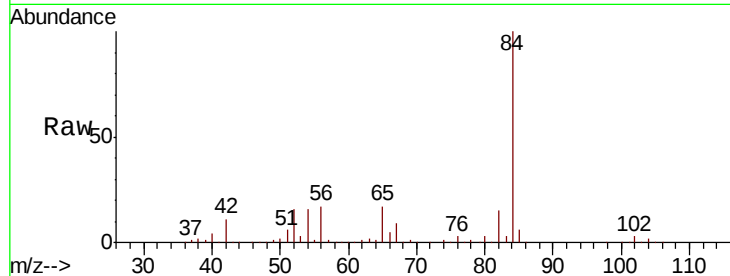




#27  
 1,2-Dichloroethane  
 Concen: 0.848 ug/L  
 RT: 5.05 min Scan# 1232  
 Delta R.T. -0.08 min  
 Lab File: VV019829.D  
 Acq: 24 Dec 2020 11:45

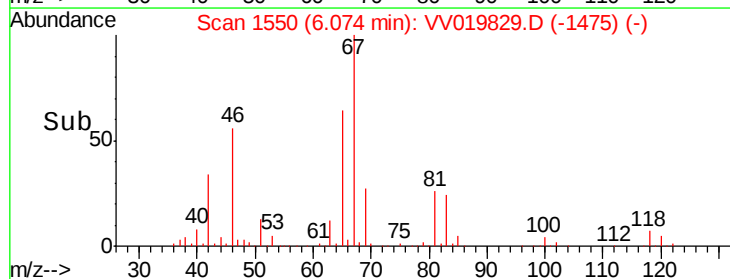
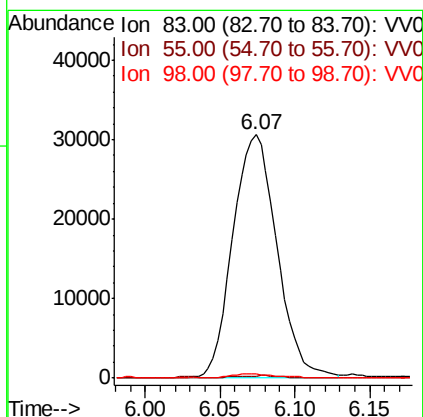
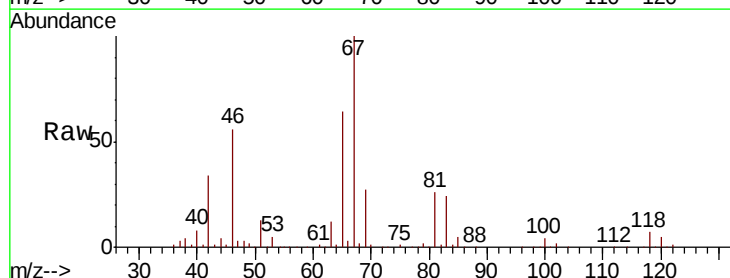
Instrument :  
 MSVOA\_V  
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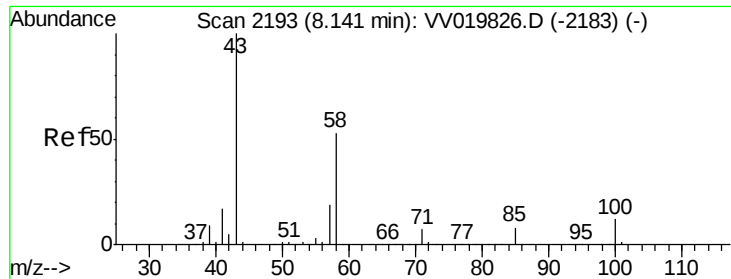
Tot Ion: 62 Resp: 5685  
 Ion Ratio Lower Upper  
 62 100  
 98 7.4 7.4 11.0



#35  
 Methylcyclohexane  
 Concen: 8.706 ug/L  
 RT: 6.07 min Scan# 1550  
 Delta R.T. -0.06 min  
 Lab File: VV019829.D  
 Acq: 24 Dec 2020 11:45

Tgt Ion: 83 Resp: 62205  
 Ion Ratio Lower Upper  
 83 100  
 55 0.5 64.2 96.4#  
 98 0.1 39.3 58.9#

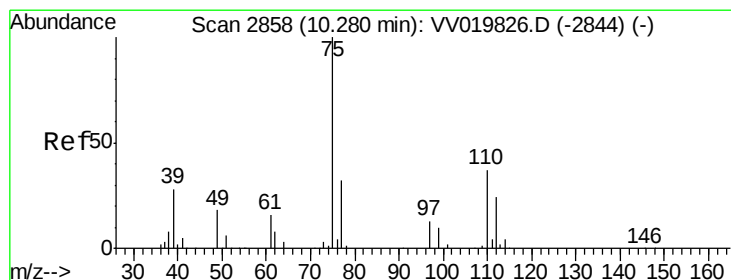
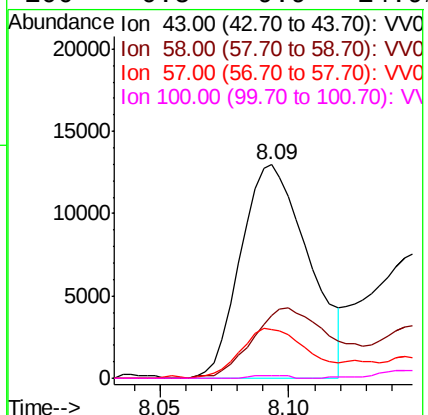
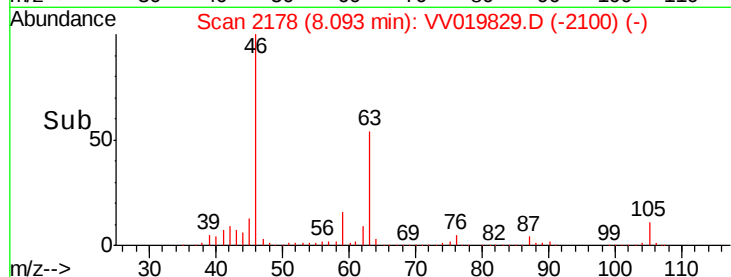
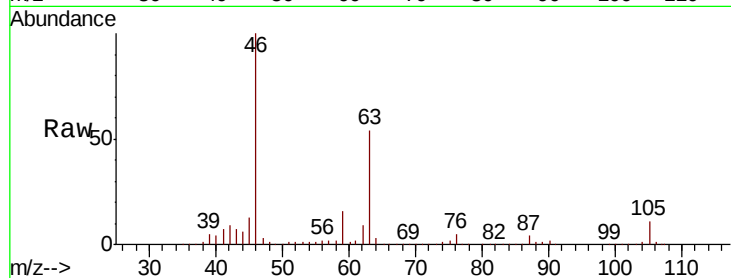




#48  
2-Hexanone  
Concen: 4.689 ug/L  
RT: 8.09 min Scan# 2178  
Delta R.T. -0.05 min  
Lab File: VV019829.D  
Acq: 24 Dec 2020 11:45

Instrument :  
MSVOA\_V  
ClientSampleId :  
BG4P5

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 23866 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 39.1  | 44.4  | 66.6# |
| 57       | 23.3  | 15.7  | 23.5  |
| 100      | 0.5   | 9.9   | 14.9# |



#59  
1,2,3-Trichloropropane  
Concen: 7.163 ug/L  
RT: 11.25 min Scan# 3161  
Delta R.T. 0.97 min  
Lab File: VV019829.D  
Acq: 24 Dec 2020 11:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 41424 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 33.7  | 25.8  | 38.8  |

