

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070620\  
 Data File : VU039292.D  
 Acq On : 06 Jul 2020 15:38  
 Operator : SY/MD  
 Sample : L3193-02  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H4276

Quant Time: Jul 07 01:19:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR070620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jul 07 01:17:04 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.27  | 114  | 120135   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 113558   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 53480    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 47245    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 102.20% |
| 7) Chloroethane-d5             | 1.93   | 69    | 39521    | 4.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 89.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 66373    | 3.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 77.20%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 163168   | 46.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 93.72%  |
| 24) Chloroform-d               | 5.09   | 84    | 86662    | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 51322    | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.80%  |
| 32) Benzene-d6                 | 5.75   | 84    | 173771   | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.71   | 67    | 56487    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.40%  |
| 41) Toluene-d8                 | 7.91   | 98    | 153933   | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.80%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 22242    | 4.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 82.80%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 131367   | 46.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 92.84%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.76  | 84    | 50940    | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 92.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 57967    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.00%  |

## Target Compounds

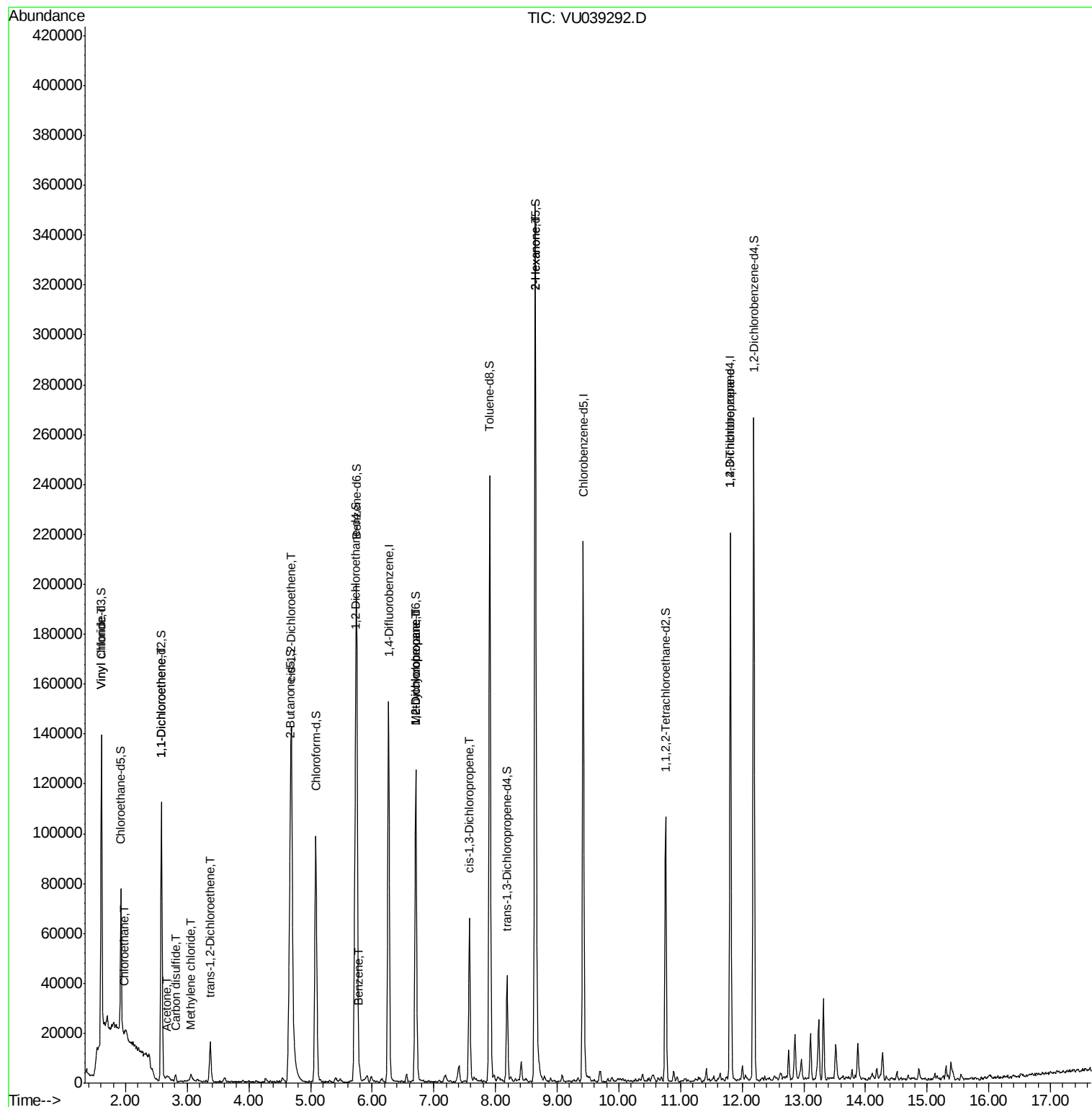
|                              |       |    |       |              | Ovalue |
|------------------------------|-------|----|-------|--------------|--------|
| 5) Vinyl chloride            | 1.61  | 62 | 38102 | 4.257 ug/L # | 56     |
| 8) Chloroethane              | 1.99  | 64 | 968   | 0.158 ug/L # | 53     |
| 12) 1,1-Dichloroethene       | 2.58  | 96 | 744   | 0.109 ug/L # | 1      |
| 13) Acetone                  | 2.67  | 43 | 2216  | 1.345 ug/L   | 67     |
| 14) Carbon disulfide         | 2.81  | 76 | 3295  | 0.152 ug/L # | 87     |
| 16) Methylene chloride       | 3.06  | 84 | 1107  | 0.128 ug/L   | 87     |
| 18) trans-1,2-Dichloroethene | 3.37  | 96 | 5629  | 0.761 ug/L   | 90     |
| 22) cis-1,2-Dichloroethene   | 4.69  | 96 | 46443 | 5.509 ug/L   | 93     |
| 33) Benzene                  | 5.79  | 78 | 3679  | 0.115 ug/L   | 100    |
| 35) Methylcyclohexane        | 6.71  | 83 | 12482 | 0.945 ug/L # | 17     |
| 37) 1,2-Dichloropropane      | 6.70  | 63 | 7010  | 0.785 ug/L # | 90     |
| 39) cis-1,3-Dichloropropene  | 7.57  | 75 | 1868  | 0.135 ug/L   | 85     |
| 48) 2-Hexanone               | 8.65  | 43 | 16487 | 2.934 ug/L # | 73     |
| 59) 1,2,3-Trichloropropane   | 11.81 | 75 | 8389  | 1.250 ug/L   | 98     |

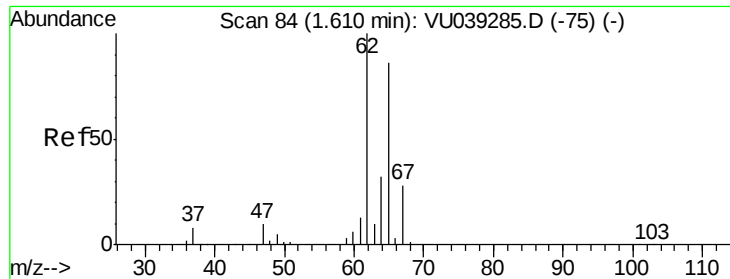
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR070620WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Jul 07 01:17:04 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 4.257 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU039292.D

Acq: 06 Jul 2020 15:38

Instrument :

MSVOA\_U

ClientSampleId :

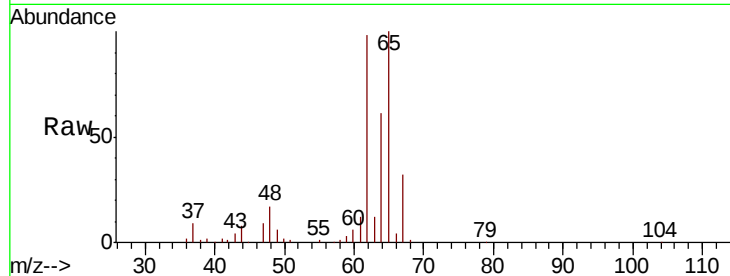
H4276

Tot Ion: 62 Resp: 38102

Ion Ratio Lower Upper

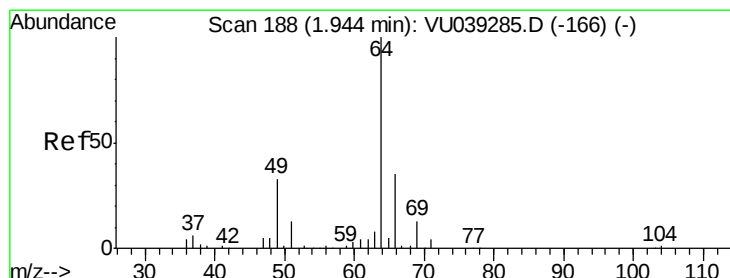
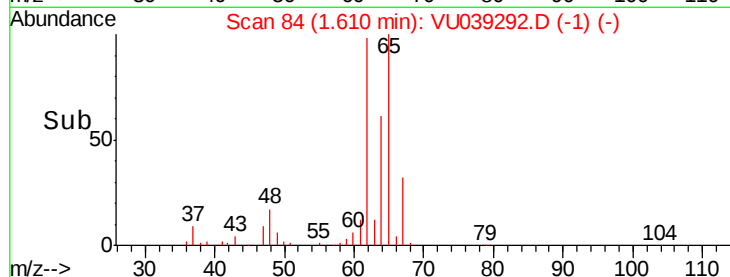
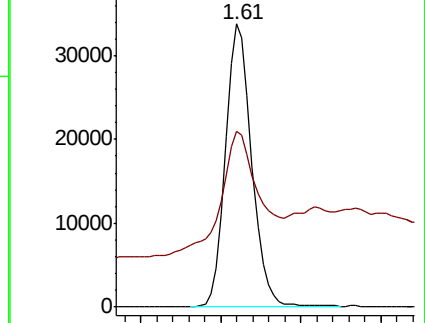
62 100

64 62.3 25.6 47.4#



Abundance Ion 62.00 (61.70 to 62.70): VU039285.D (-75) (-)

Ion 64.10 (63.80 to 64.80): VU039292.D (-95) (-)



#8

Chloroethane

Concen: 0.158 ug/L

RT: 1.99 min Scan# 202

Delta R.T. 0.05 min

Lab File: VU039292.D

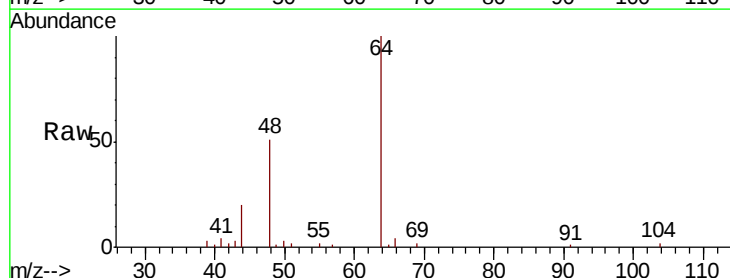
Acq: 06 Jul 2020 15:38

Tgt Ion: 64 Resp: 968

Ion Ratio Lower Upper

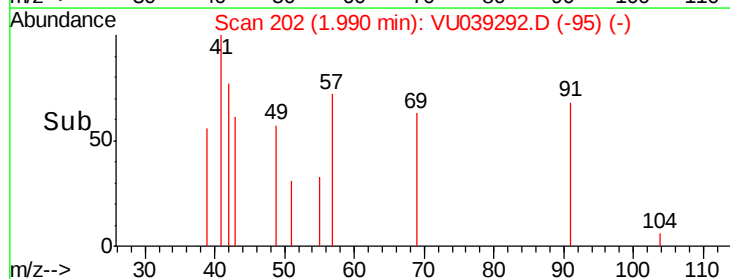
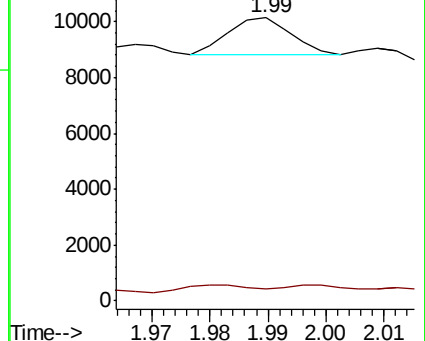
64 100

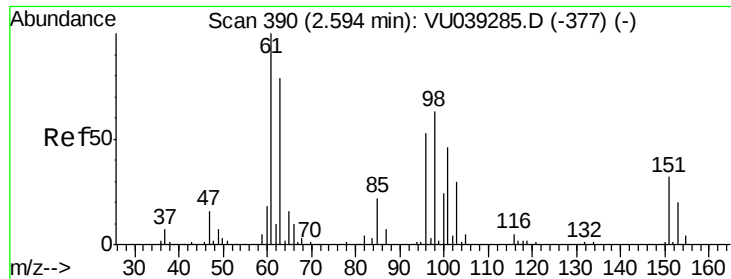
66 4.3 20.7 38.5#



Abundance Ion 64.10 (63.80 to 64.80): VU039285.D (-166) (-)

Ion 66.05 (65.75 to 66.75): VU039292.D (-95) (-)





#12

1,1-Dichloroethene

Concen: 0.109 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU039292.D

Acq: 06 Jul 2020 15:38

Instrument :

MSVOA\_U

ClientSampleId :

H4276

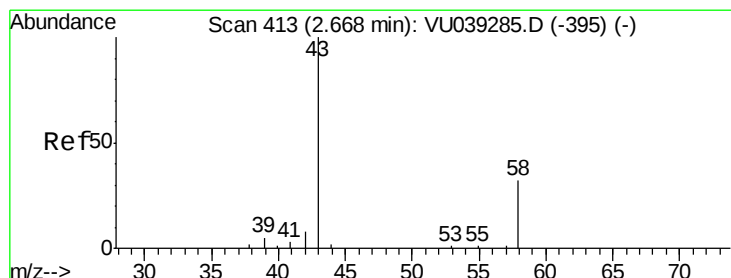
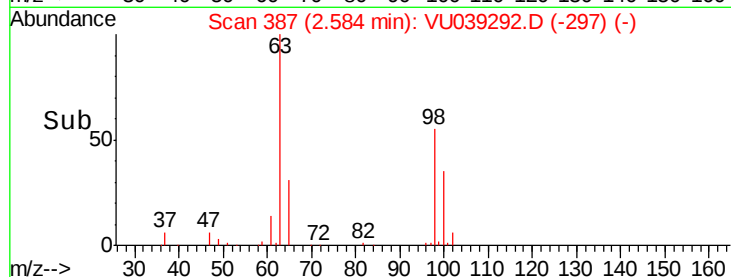
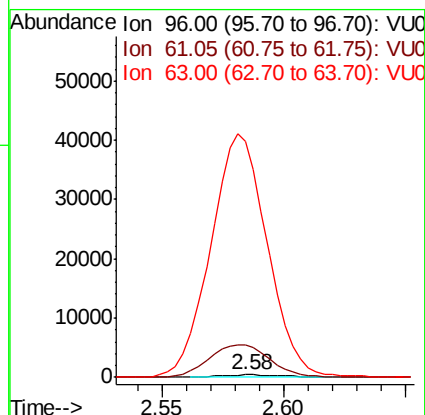
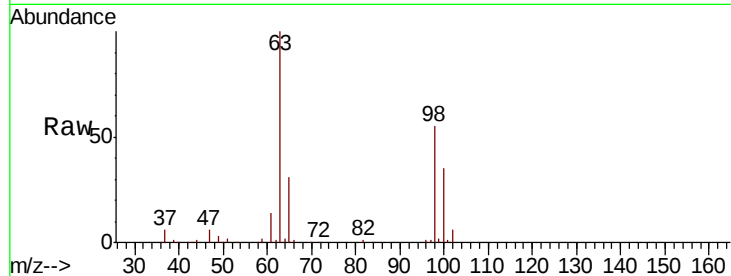
Tot Ion: 96 Resp: 744

Ion Ratio Lower Upper

96 100

61 1326.2 123.8 230.0#

63 9555.8 112.1 208.3#



#13

Acetone

Concen: 1.345 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.00 min

Lab File: VU039292.D

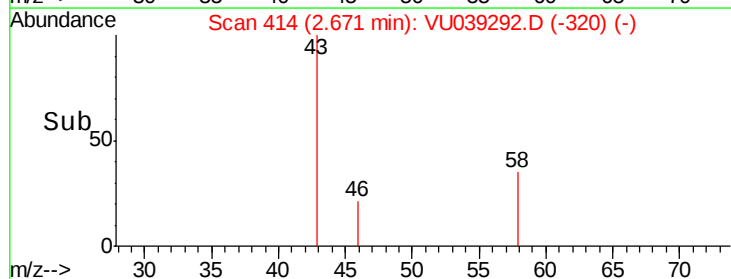
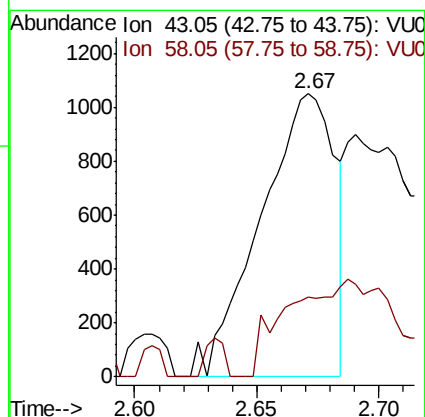
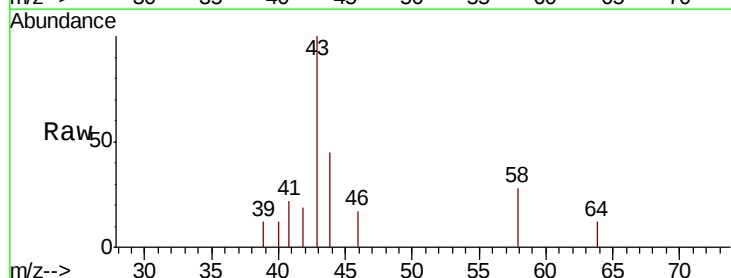
Acq: 06 Jul 2020 15:38

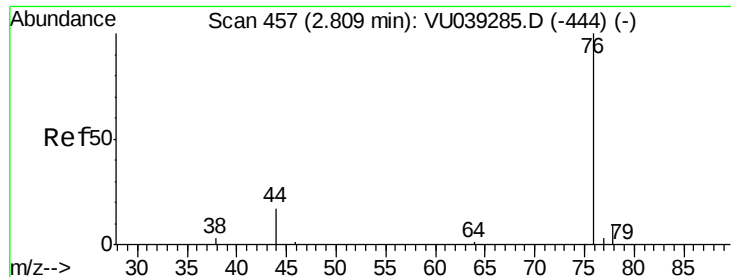
Tgt Ion: 43 Resp: 2216

Ion Ratio Lower Upper

43 100

58 50.2 0.0 63.6





#14

Carbon disulfide

Concen: 0.152 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU039292.D

Acq: 06 Jul 2020 15:38

Instrument :

MSVOA\_U

ClientSampleId :

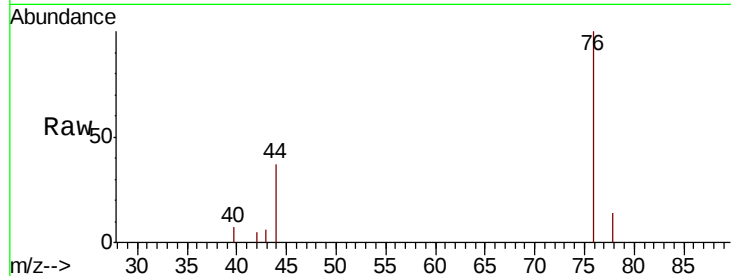
H4276

Tot Ion: 76 Resp: 3295

Ion Ratio Lower Upper

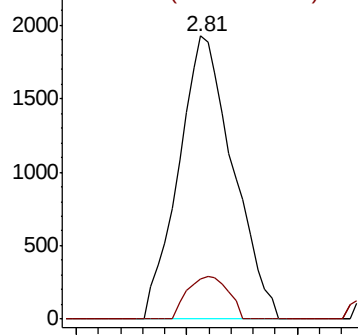
76 100

78 14.1 7.4 11.0#

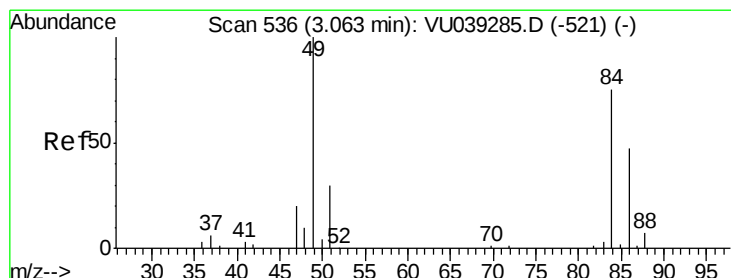
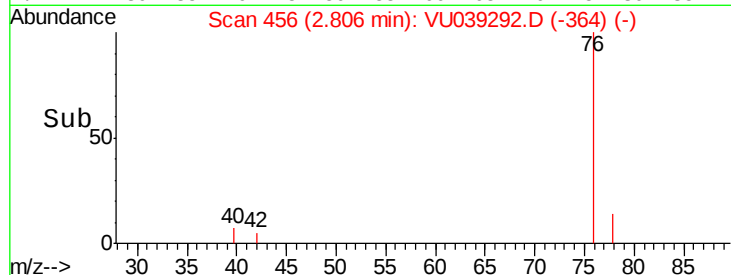


Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0



Time--> 2.75 2.80 2.85



#16

Methylene chloride

Concen: 0.128 ug/L

RT: 3.06 min Scan# 535

Delta R.T. -0.00 min

Lab File: VU039292.D

Acq: 06 Jul 2020 15:38

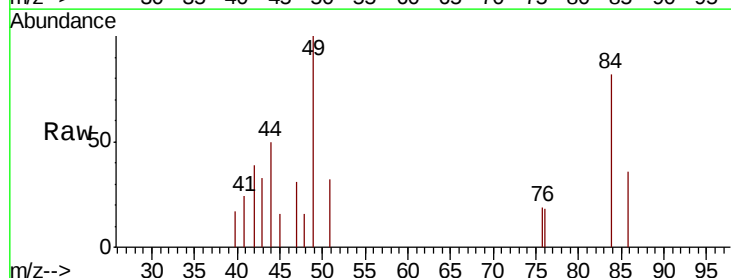
Tgt Ion: 84 Resp: 1107

Ion Ratio Lower Upper

84 100

86 43.6 42.6 79.0

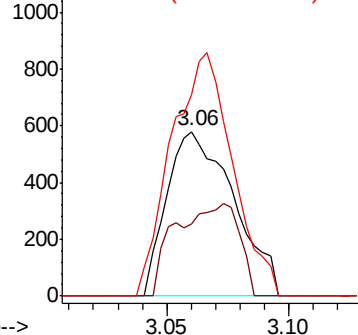
49 122.2 93.0 172.8



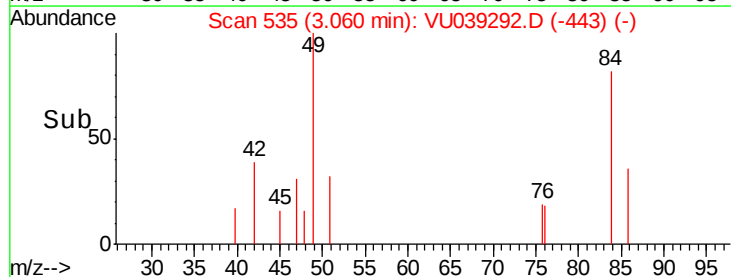
Abundance Ion 84.05 (83.75 to 84.75): VU0

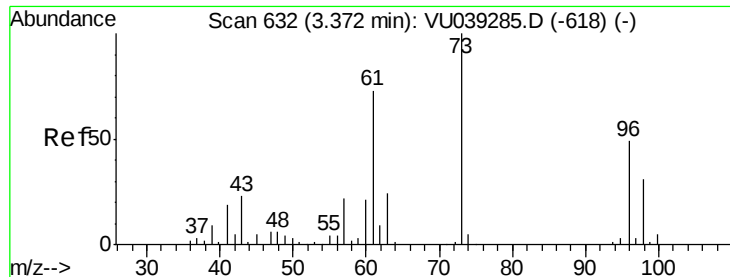
Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0



Time--> 3.05 3.10

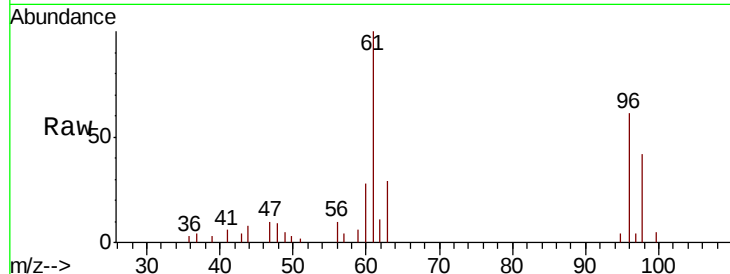




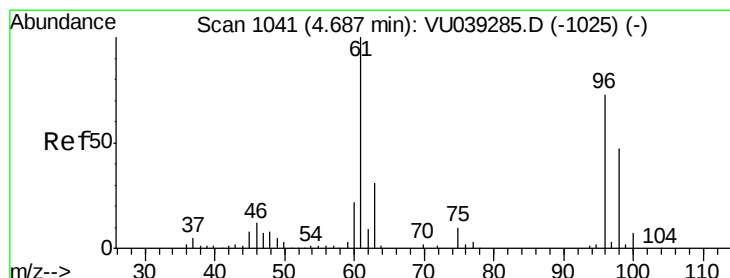
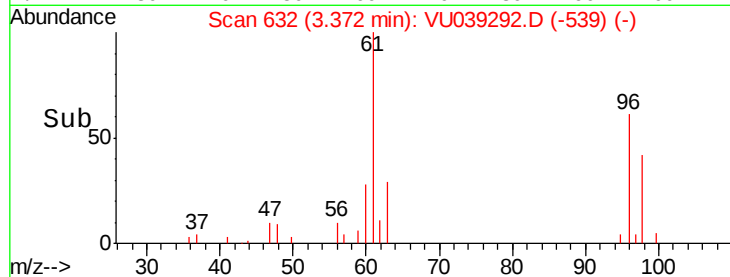
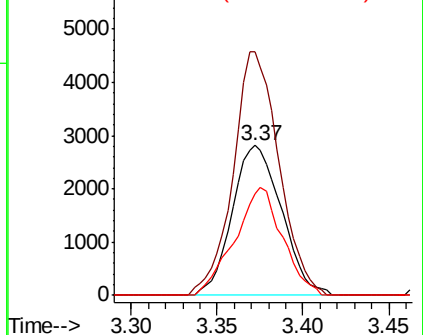
#18  
trans-1,2-Dichloroethene  
Concen: 0.761 ug/L  
RT: 3.37 min Scan# 632  
Delta R.T. 0.00 min  
Lab File: VU039292.D  
Acq: 06 Jul 2020 15:38

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4276

Tot Ion: 96 Resp: 5629  
Ion Ratio Lower Upper  
96 100  
61 162.8 104.7 194.5  
98 68.0 43.1 80.1

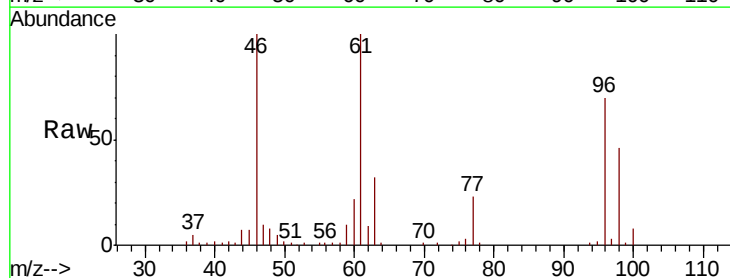


Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 97.95 (97.65 to 98.65): VU0

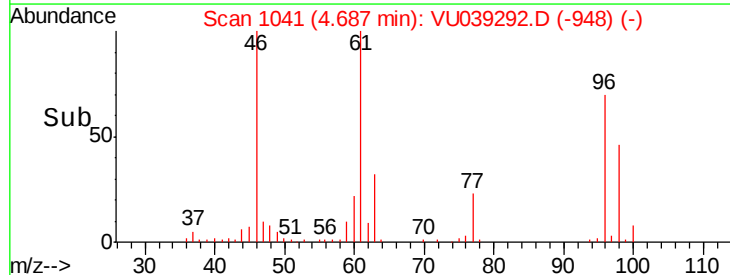
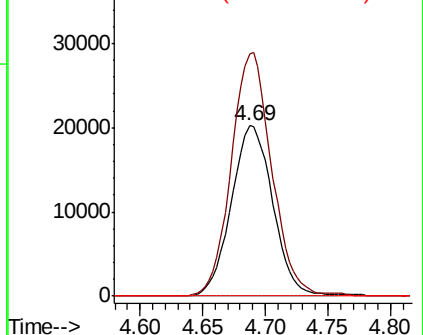


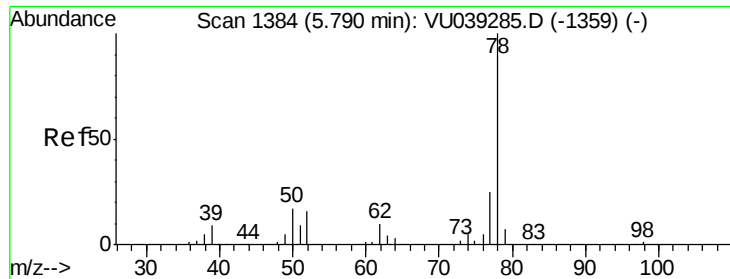
#22  
cis-1,2-Dichloroethene  
Concen: 5.509 ug/L  
RT: 4.69 min Scan# 1041  
Delta R.T. 0.00 min  
Lab File: VU039292.D  
Acq: 06 Jul 2020 15:38

Tgt Ion: 96 Resp: 46443  
Ion Ratio Lower Upper  
96 100  
61 142.4 93.7 173.9  
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 68.15 (67.85 to 68.85): VU0





#33

Benzene

Concen: 0.115 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU039292.D

Acq: 06 Jul 2020 15:38

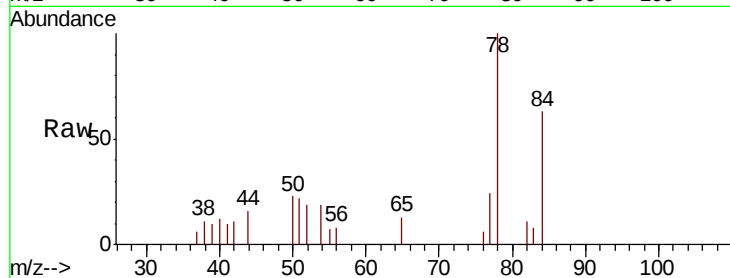
Instrument :

MSVOA\_U

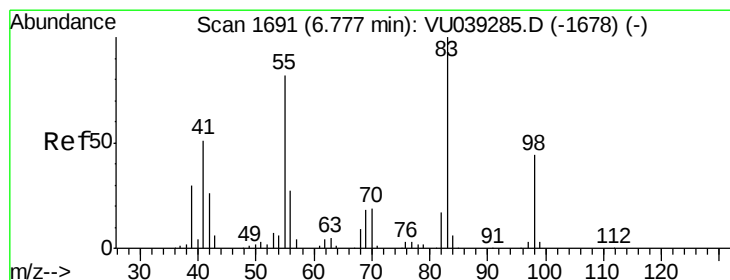
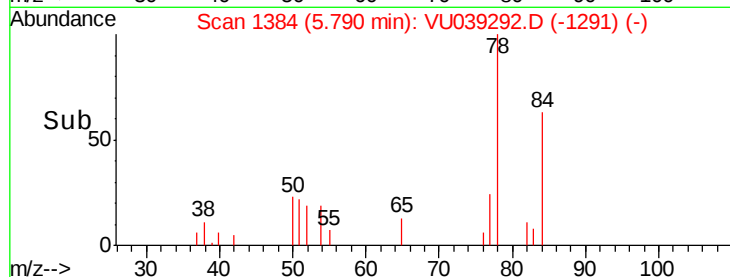
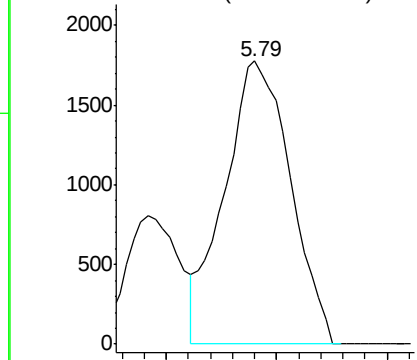
ClientSampleId :

H4276

Tgt Ion: 78 Resp: 3679



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 0.945 ug/L

RT: 6.71 min Scan# 1669

Delta R.T. -0.07 min

Lab File: VU039292.D

Acq: 06 Jul 2020 15:38

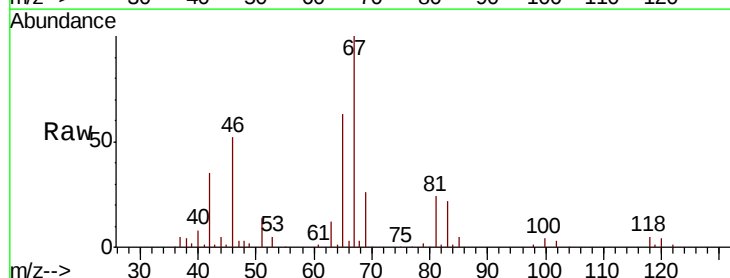
Tgt Ion: 83 Resp: 12482

Ion Ratio Lower Upper

83 100

55 0.0 63.3 94.9#

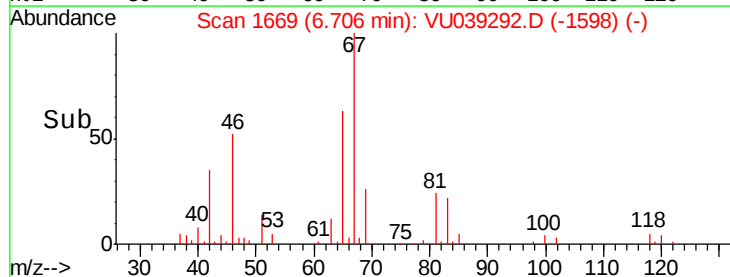
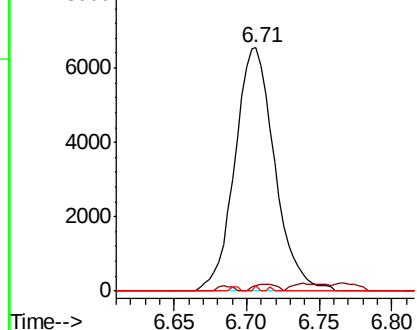
98 0.2 37.4 56.2#

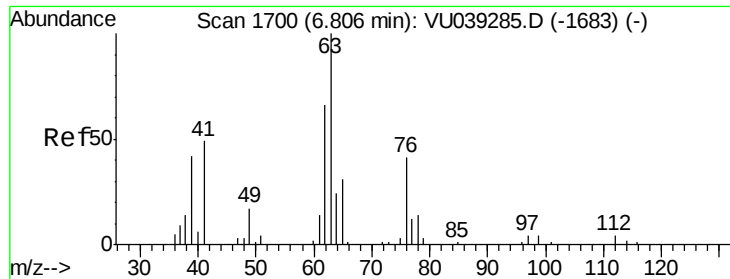


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

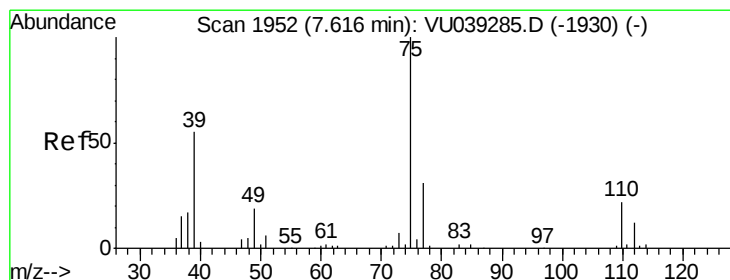
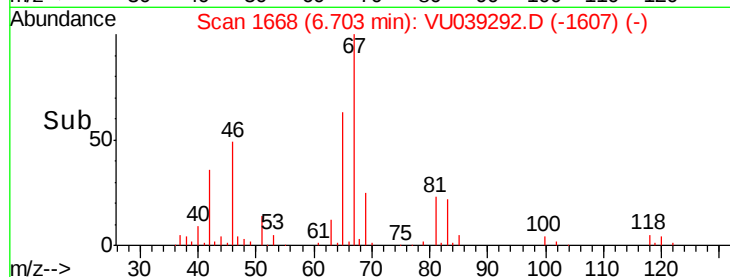
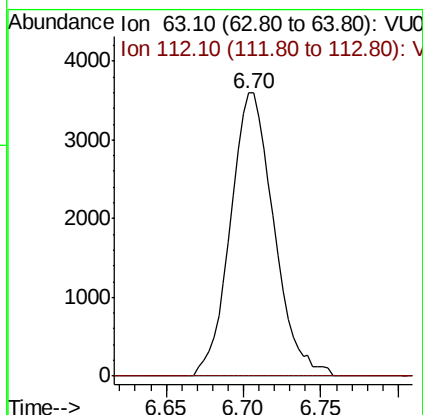
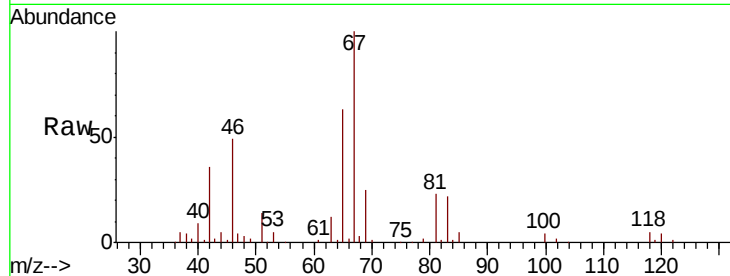




#37  
 1,2-Dichloropropane  
 Concen: 0.785 ug/L  
 RT: 6.70 min Scan# 1668  
 Delta R.T. -0.10 min  
 Lab File: VU039292.D  
 Acq: 06 Jul 2020 15:38

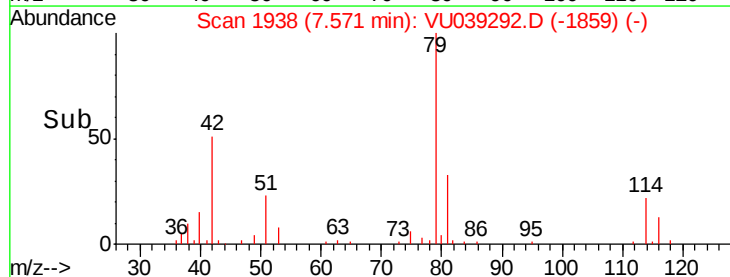
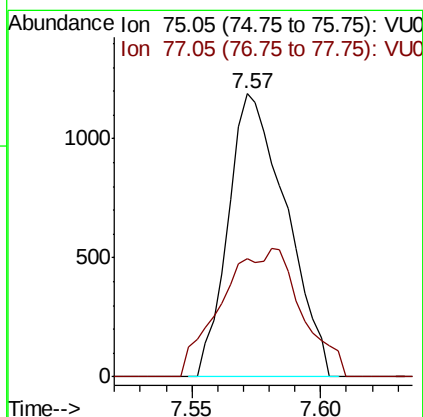
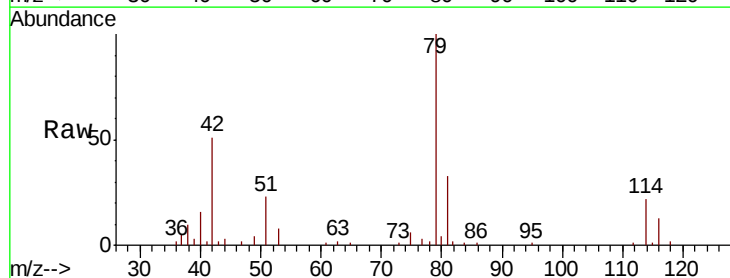
Instrument :  
 MSVOA\_U  
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 H4276

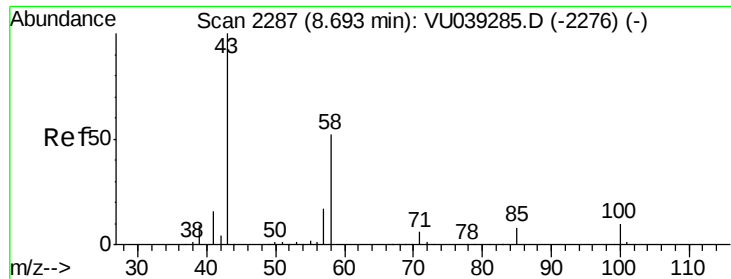
Tot Ion: 63 Resp: 7010  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 2.6 3.8#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.135 ug/L  
 RT: 7.57 min Scan# 1938  
 Delta R.T. -0.04 min  
 Lab File: VU039292.D  
 Acq: 06 Jul 2020 15:38

Tgt Ion: 75 Resp: 1868  
 Ion Ratio Lower Upper  
 75 100  
 77 42.0 23.3 43.3

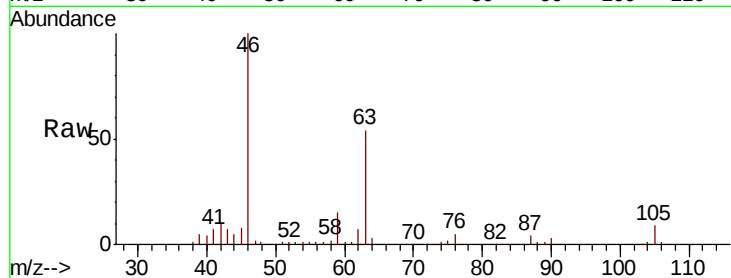




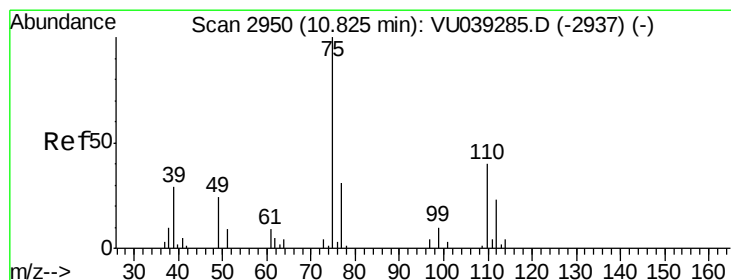
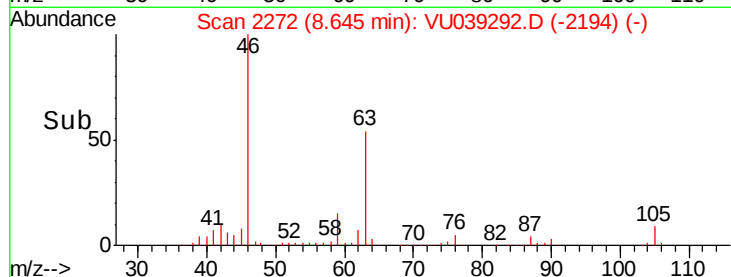
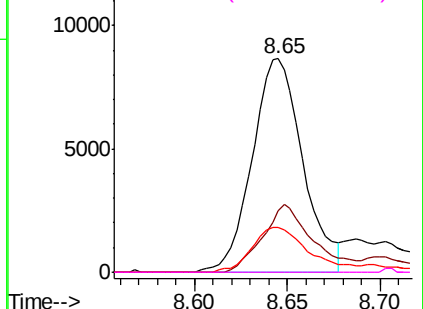
#48  
2-Hexanone  
Concen: 2.934 ug/L  
RT: 8.65 min Scan# 2272  
Delta R.T. -0.05 min  
Lab File: VU039292.D  
Acq: 06 Jul 2020 15:38

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4276

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 31.6  | 43.1  | 64.7# |
| 57      | 23.6  | 14.4  | 21.6# |
| 100     | 0.0   | 8.3   | 12.5# |

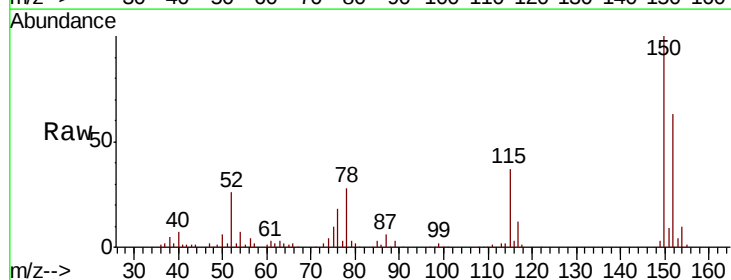


Abundance Ion 43.05 (42.75 to 43.75): VU0  
Ion 58.05 (57.75 to 58.75): VU0  
Ion 57.20 (56.90 to 57.90): VU0  
Ion 100.15 (99.85 to 100.85): VU0



#59  
1,2,3-Trichloropropane  
Concen: 1.250 ug/L  
RT: 11.81 min Scan# 3256  
Delta R.T. 0.98 min  
Lab File: VU039292.D  
Acq: 06 Jul 2020 15:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 35.7  | 27.7  | 41.5  |



Abundance Ion 75.00 (74.70 to 75.70): VU0  
Ion 77.00 (76.70 to 77.70): VU0

