

Data File : VU041397.D  
Acq On : 23 Nov 2020 19:03  
Operator : SY/MD  
Sample : L4849-06DL 20X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4411DL

Quant Time: Nov 24 01:55:43 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR112320WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Nov 24 01:52:19 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 63302    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 67110    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 28405    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 22052    | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 99.20%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 16660    | 5.33     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 106.60% |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 36544    | 4.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 83.80%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 71934    | 63.47    | ug/L | 0.02    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 126.94% |
| 24) Chloroform-d               | 5.08   | 84    | 43151    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 28950    | 5.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 109.60% |
| 32) Benzene-d6                 | 5.74   | 84    | 80569    | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 28191    | 5.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 107.80% |
| 41) Toluene-d8                 | 7.90   | 98    | 71908    | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.80%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 12026    | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 101.40% |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 44509    | 57.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 114.70% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 23292    | 5.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 109.60% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 27366    | 5.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 115.60% |

#### Target Compounds

|                               |       |    |       |              | Qvalue |
|-------------------------------|-------|----|-------|--------------|--------|
| 5) Vinyl chloride             | 1.61  | 62 | 2816  | 0.509 ug/L   | 91     |
| 16) Methylene chloride        | 3.06  | 84 | 7953  | 1.428 ug/L   | 98     |
| 17) Methyl tert-butyl Ether   | 3.38  | 73 | 2958  | 0.305 ug/L   | 97     |
| 18) trans-1,2-Dichloroethene  | 3.37  | 96 | 1645  | 0.389 ug/L   | 96     |
| 22) cis-1,2-Dichloroethene    | 4.68  | 96 | 28555 | 6.352 ug/L   | 97     |
| 25) Chloroform                | 5.11  | 83 | 2840  | 0.307 ug/L   | 84     |
| 27) 1,2-Dichloroethane        | 5.75  | 62 | 562   | 0.093 ug/L # | 78     |
| 34) Trichloroethene           | 6.56  | 95 | 1341  | 0.274 ug/L   | 96     |
| 35) Methylcyclohexane         | 6.70  | 83 | 6665  | 0.932 ug/L # | 15     |
| 37) 1,2-Dichloropropane       | 6.70  | 63 | 3505  | 0.710 ug/L # | 90     |
| 39) cis-1,3-Dichloropropene   | 7.57  | 75 | 886   | 0.130 ug/L # | 74     |
| 44) trans-1,3-Dichloropropene | 8.18  | 75 | 573   | 0.092 ug/L # | 71     |
| 48) 2-Hexanone                | 8.64  | 43 | 6226  | 2.801 ug/L # | 72     |
| 59) 1,2,3-Trichloropropane    | 11.81 | 75 | 3750  | 1.162 ug/L # | 89     |

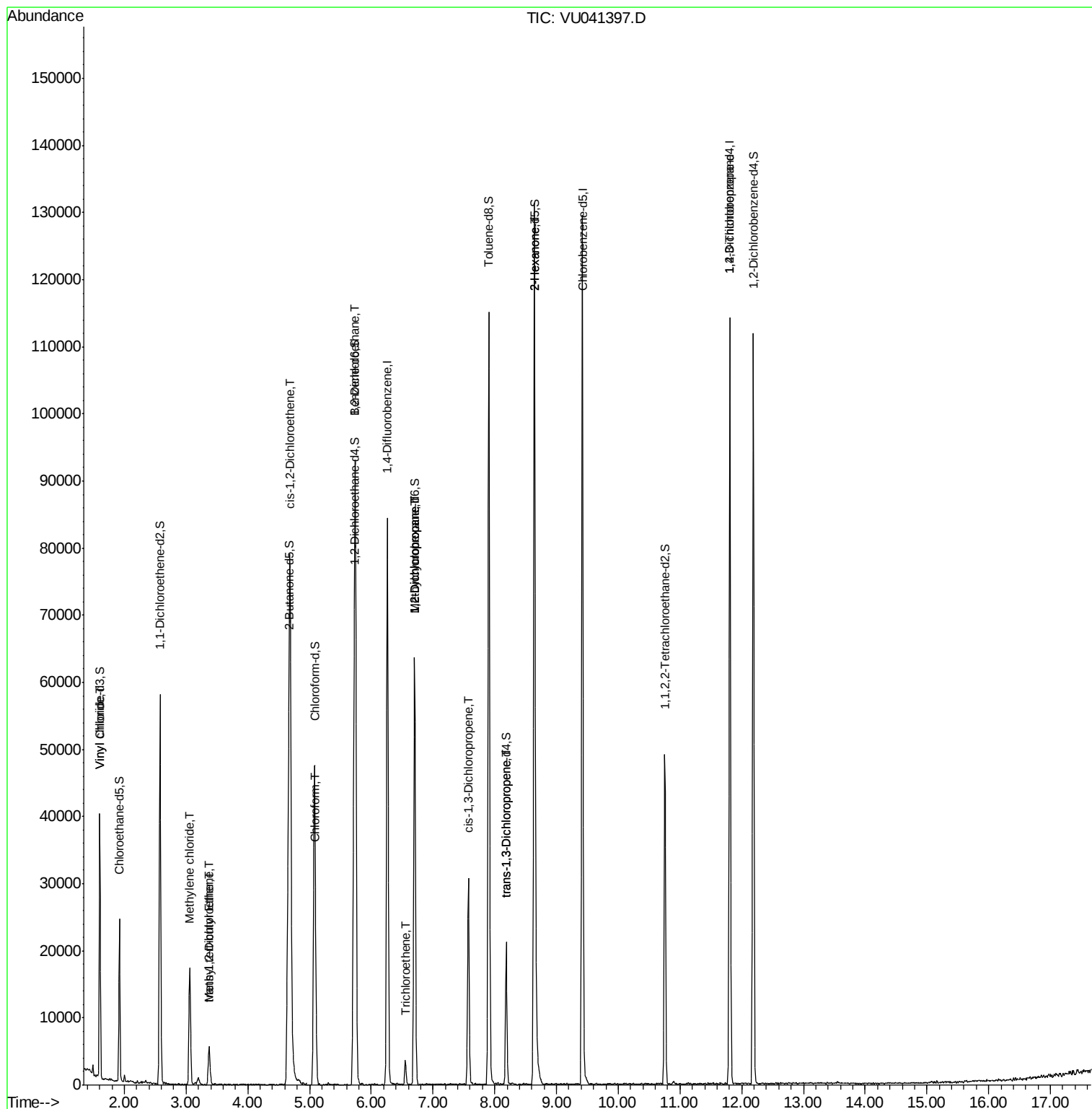
(#) = qualifier out of range (m) = manual integration (+) = signals summed

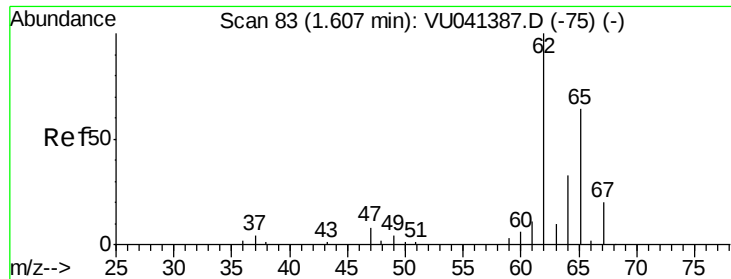
Data File : VU041397.D

```
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ALS Vial    : 20   Sample Multiplier: 1
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MSVOA\_U  
**ClientSampleId :**  
H4411DL

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QLast Update : Tue Nov 24 01:52:19 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.509 ug/L

RT: 1.61 min Scan# 83

Delta R.T. 0.00 min

Lab File: VU041397.D

Acq: 23 Nov 2020 19:03

Instrument :

MSVOA\_U

ClientSampleId :

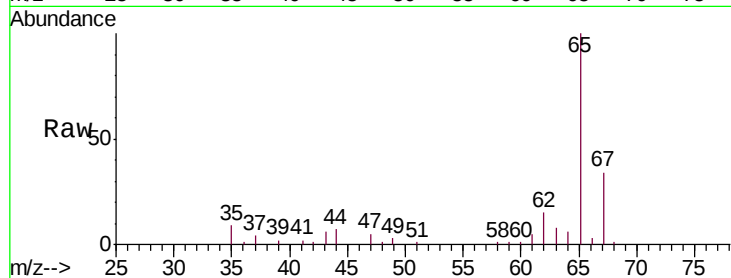
H4411DL

Tgt Ion: 62 Resp: 2816

Ion Ratio Lower Upper

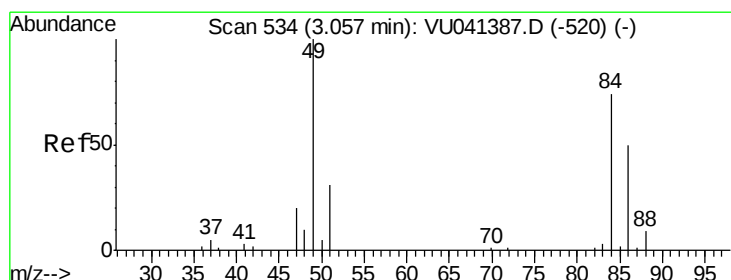
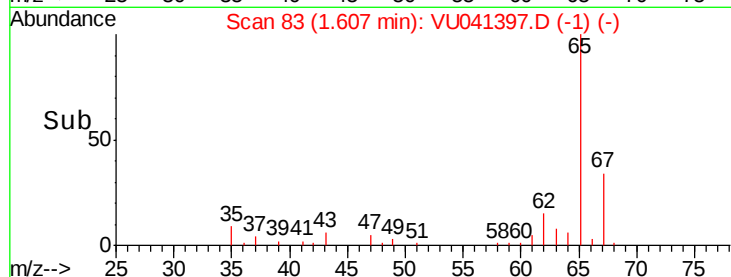
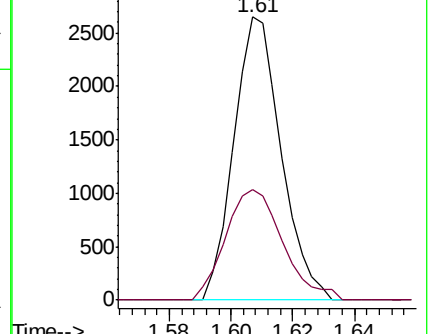
62 100

64 39.1 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#16

Methylene chloride

Concen: 1.428 ug/L

RT: 3.06 min Scan# 534

Delta R.T. 0.00 min

Lab File: VU041397.D

Acq: 23 Nov 2020 19:03

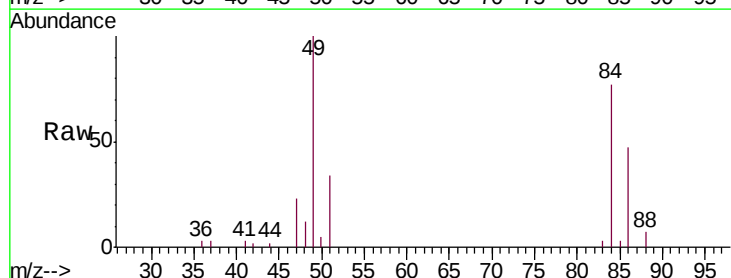
Tgt Ion: 84 Resp: 7953

Ion Ratio Lower Upper

84 100

86 60.5 44.4 82.5

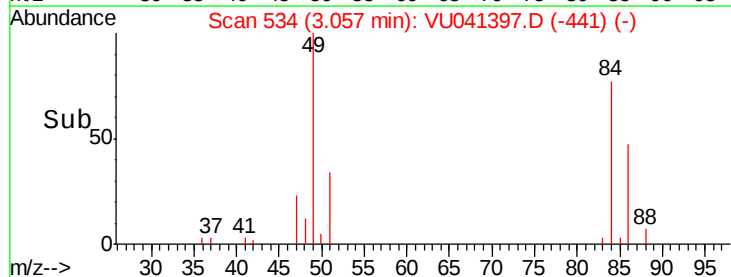
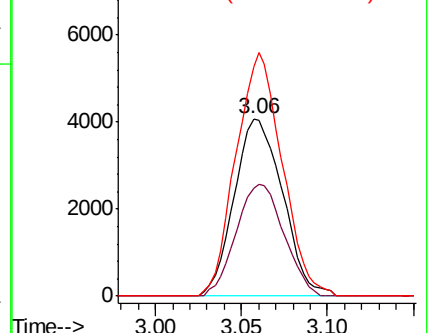
49 129.3 89.9 167.0

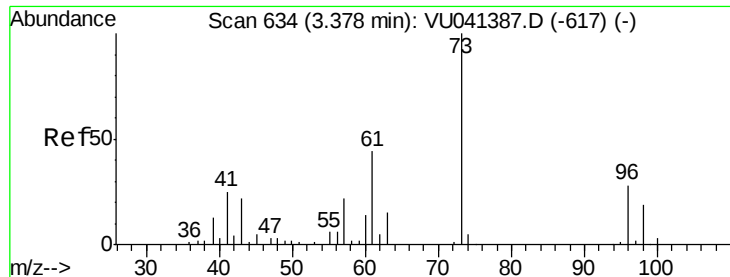


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

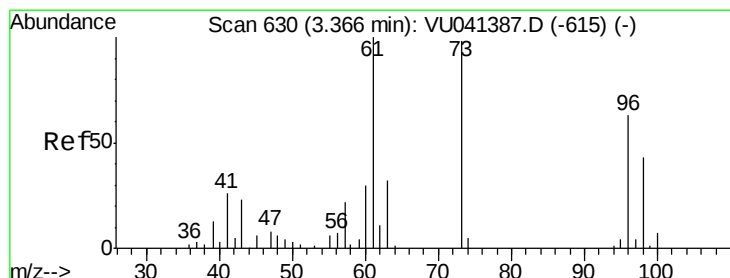
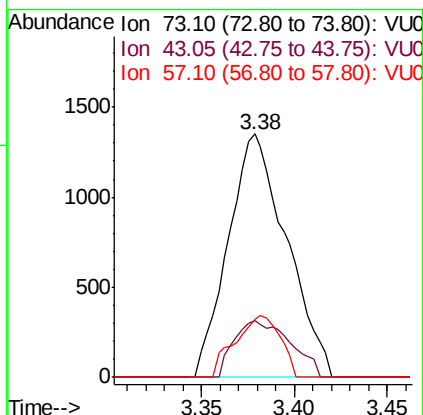
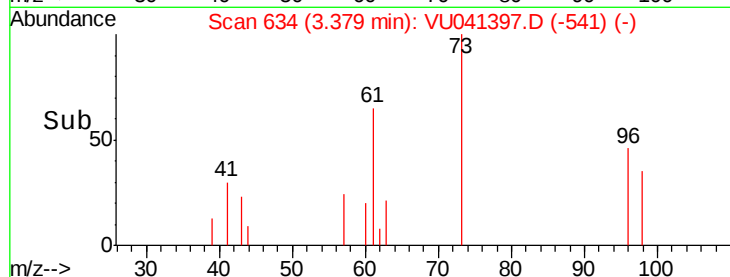
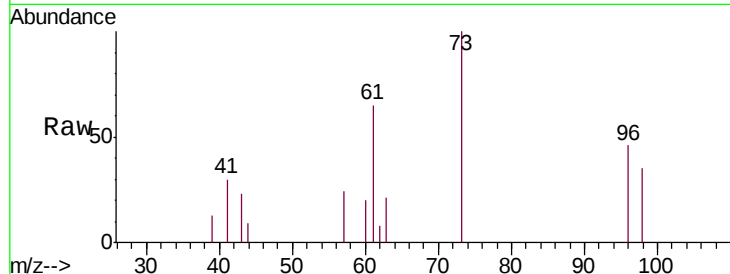




#17  
Methyl tert-butyl Ether  
Concen: 0.305 ug/L  
RT: 3.38 min Scan# 634  
Delta R.T. 0.00 min  
Lab File: VU041397.D  
Acq: 23 Nov 2020 19:03

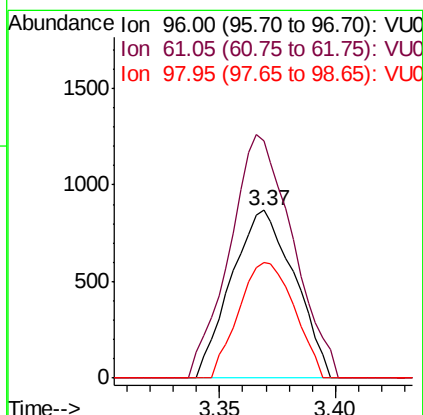
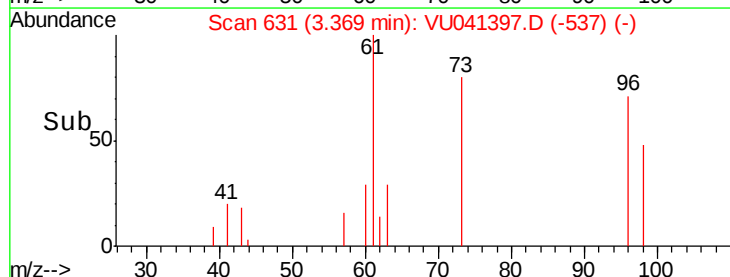
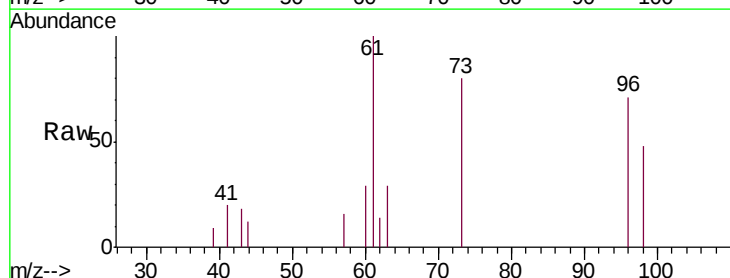
Instrument :  
MSVOA\_U  
ClientSampleId :  
H4411DL

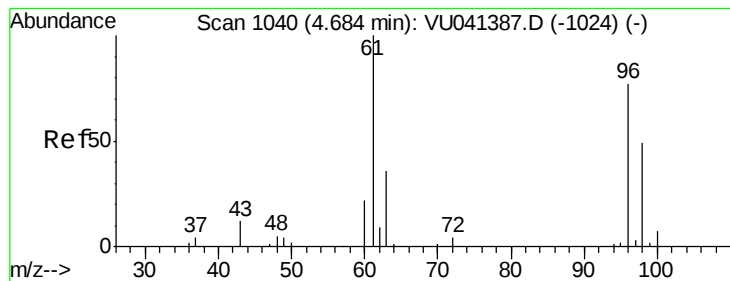
Tgt Ion: 73 Resp: 2958  
Ion Ratio Lower Upper  
73 100  
43 22.6 18.3 27.5  
57 19.6 17.7 26.5



#18  
trans-1,2-Dichloroethene  
Concen: 0.389 ug/L  
RT: 3.37 min Scan# 631  
Delta R.T. 0.00 min  
Lab File: VU041397.D  
Acq: 23 Nov 2020 19:03

Tgt Ion: 96 Resp: 1645  
Ion Ratio Lower Upper  
96 100  
61 141.7 103.7 192.5  
98 68.7 47.5 88.3





#22

cis-1,2-Dichloroethene

Concen: 6.352 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU041397.D

Acq: 23 Nov 2020 19:03

Instrument :

MSVOA\_U

ClientSampleID :

H4411DL

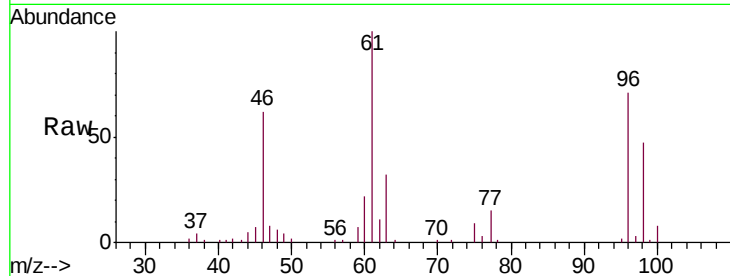
Tgt Ion: 96 Resp: 28555

Ion Ratio Lower Upper

96 100

61 140.1 95.3 176.9

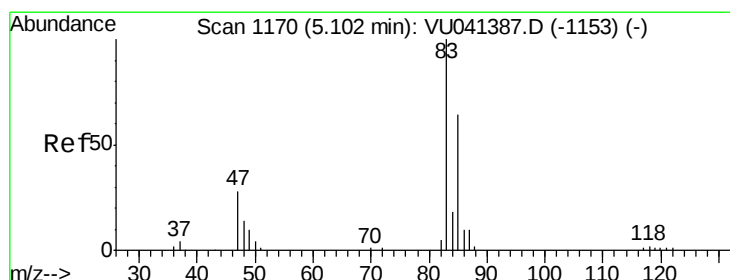
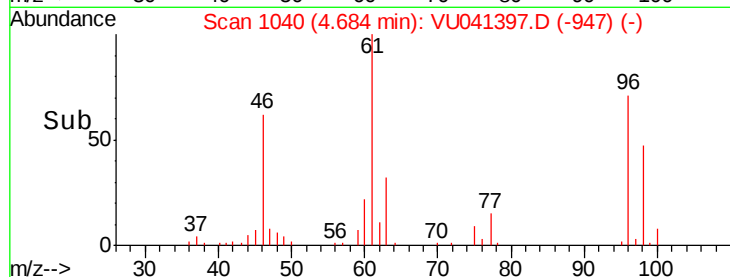
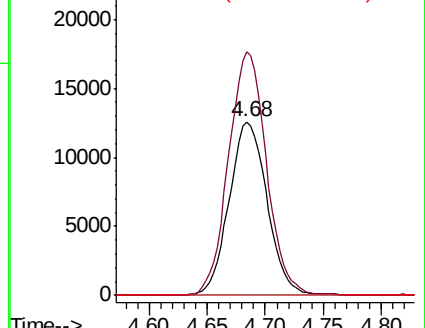
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU041397.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU041397.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU041397.D (-947) (-)



#25

Chloroform

Concen: 0.307 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VU041397.D

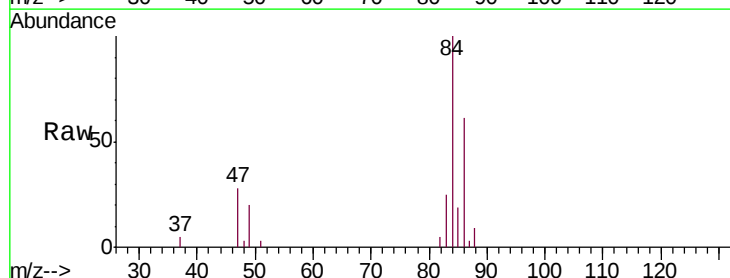
Acq: 23 Nov 2020 19:03

Tgt Ion: 83 Resp: 2840

Ion Ratio Lower Upper

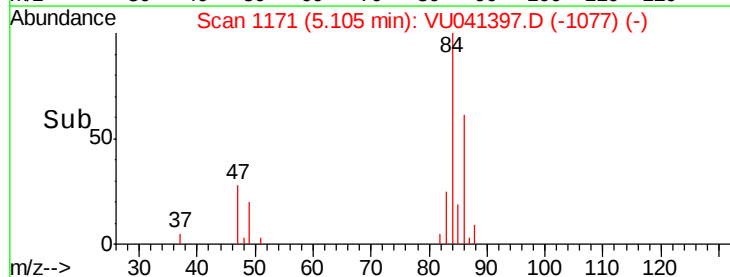
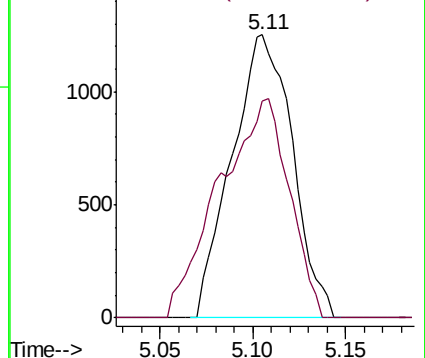
83 100

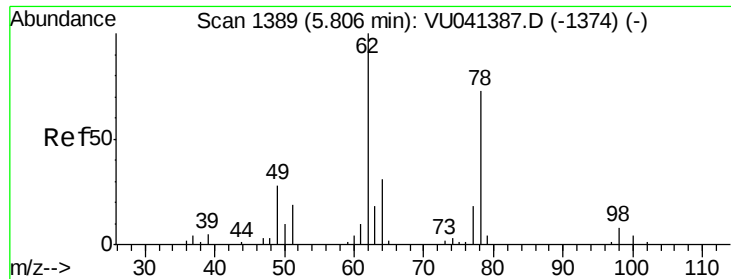
85 76.4 44.7 82.9



Abundance Ion 83.05 (82.75 to 83.75): VU041397.D (-1077) (-)

Ion 85.00 (84.70 to 85.70): VU041397.D (-1077) (-)

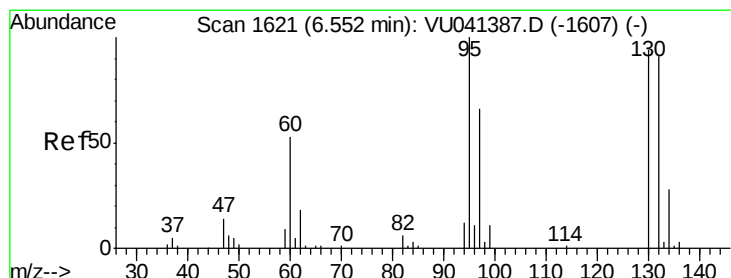
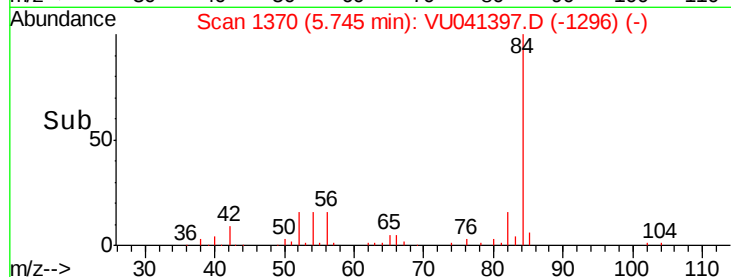
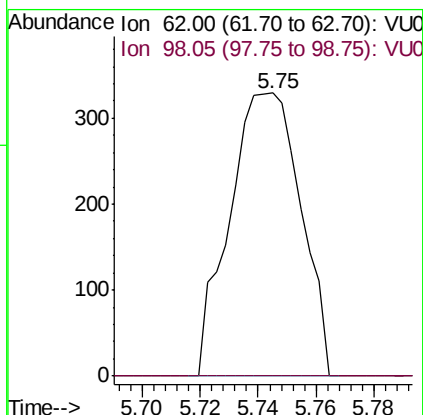
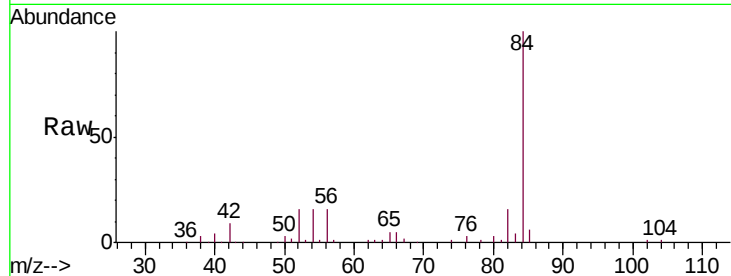




#27  
 1,2-Dichloroethane  
 Concen: 0.093 ug/L  
 RT: 5.75 min Scan# 1370  
 Delta R.T. -0.06 min  
 Lab File: VU041397.D  
 Acq: 23 Nov 2020 19:03

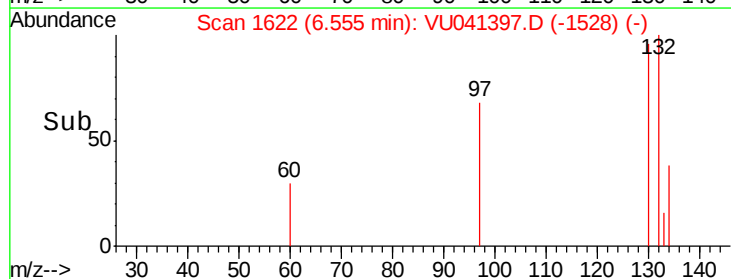
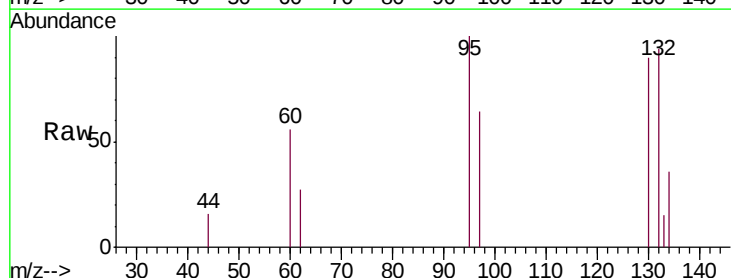
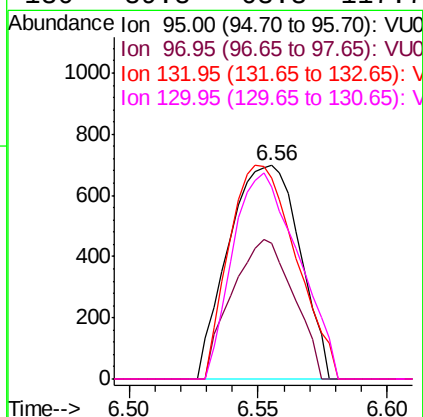
Instrument :  
 MSVOA\_U  
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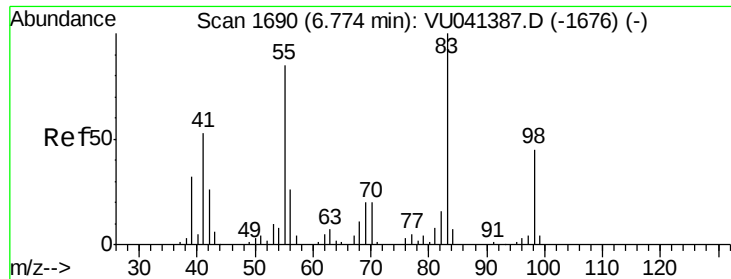
Tgt Ion: 62 Resp: 562  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 6.0 9.0#



#34  
 Trichloroethene  
 Concen: 0.274 ug/L  
 RT: 6.56 min Scan# 1622  
 Delta R.T. 0.00 min  
 Lab File: VU041397.D  
 Acq: 23 Nov 2020 19:03

Tgt Ion: 95 Resp: 1341  
 Ion Ratio Lower Upper  
 95 100  
 97 63.6 46.5 86.5  
 132 93.8 60.8 113.0  
 130 89.8 63.3 117.7

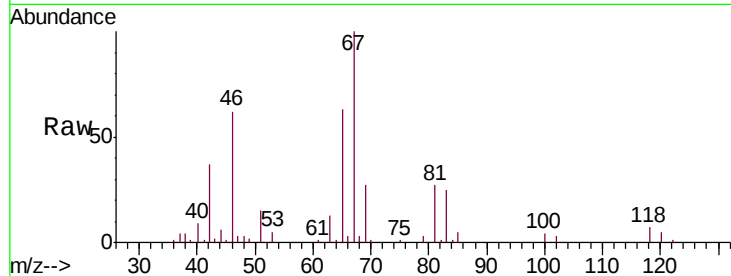




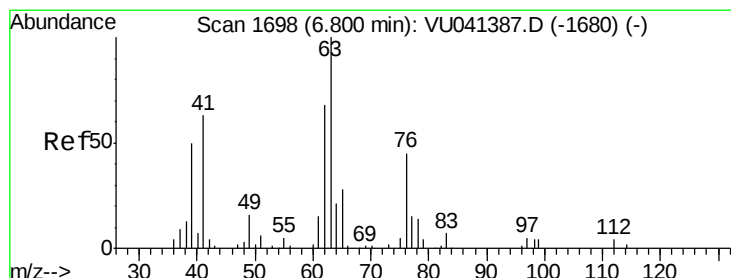
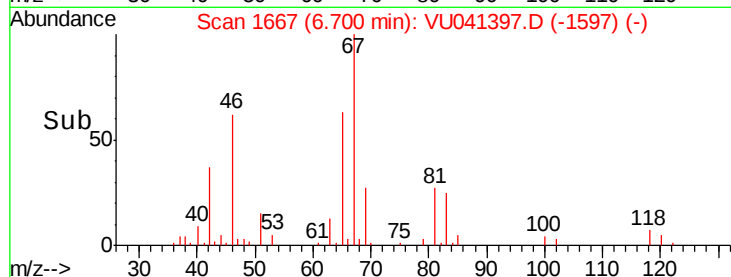
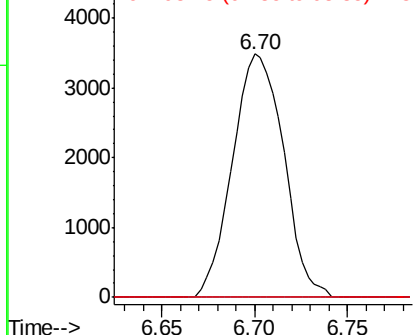
#35  
Methylcyclohexane  
Concen: 0.932 ug/L  
RT: 6.70 min Scan# 1667  
Delta R.T. -0.07 min  
Lab File: VU041397.D  
Acq: 23 Nov 2020 19:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4411DL

Tgt Ion: 83 Resp: 6665  
Ion Ratio Lower Upper  
83 100  
55 0.0 68.4 102.6#  
98 0.0 36.5 54.7#

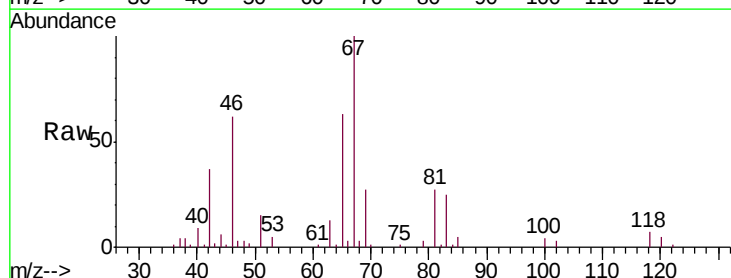


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

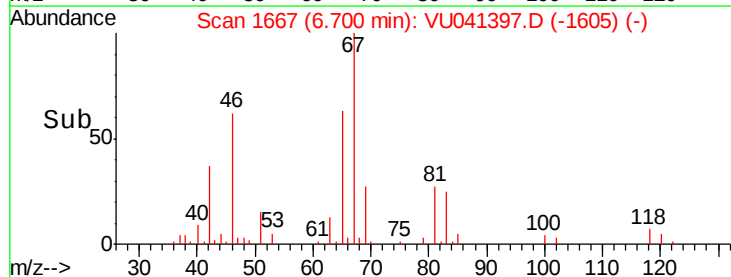
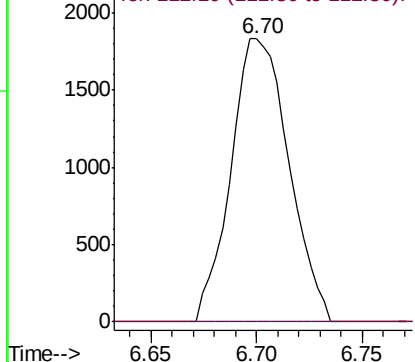


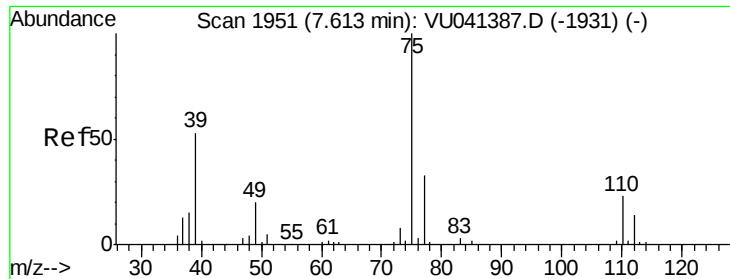
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1,2-Dichloropropane  
Concen: 0.710 ug/L  
RT: 6.70 min Scan# 1667  
Delta R.T. -0.10 min  
Lab File: VU041397.D  
Acq: 23 Nov 2020 19:03

Tgt Ion: 63 Resp: 3505  
Ion Ratio Lower Upper  
63 100  
112 0.0 2.6 4.0#



Abundance Ion 63.10 (62.80 to 63.80): VU0  
Ion 112.10 (111.80 to 112.80): V

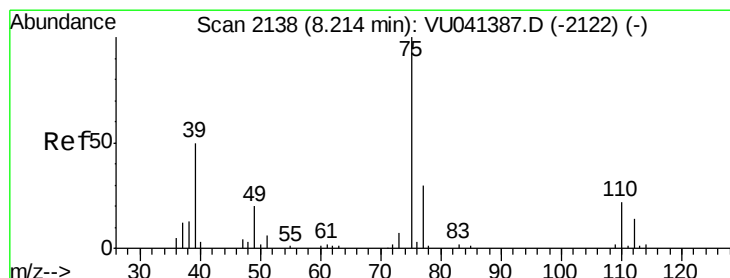
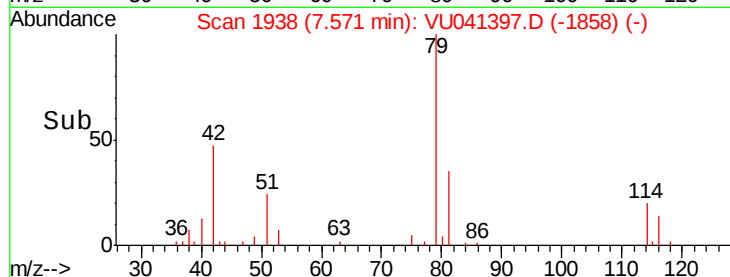
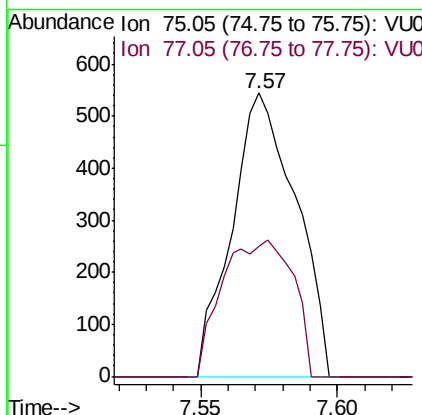
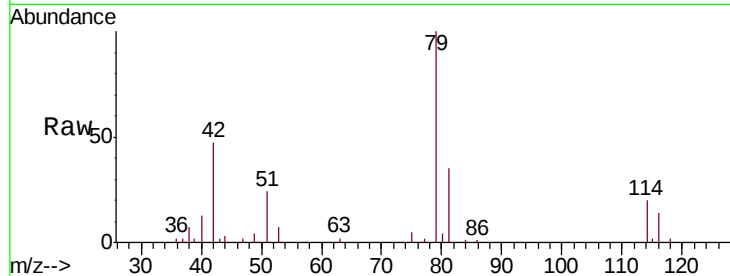




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.130 ug/L  
 RT: 7.57 min Scan# 1938  
 Delta R.T. -0.04 min  
 Lab File: VU041397.D  
 Acq: 23 Nov 2020 19:03

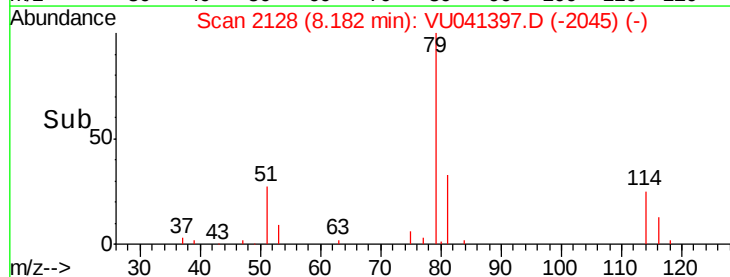
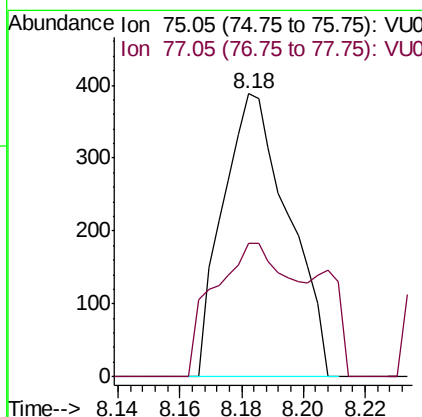
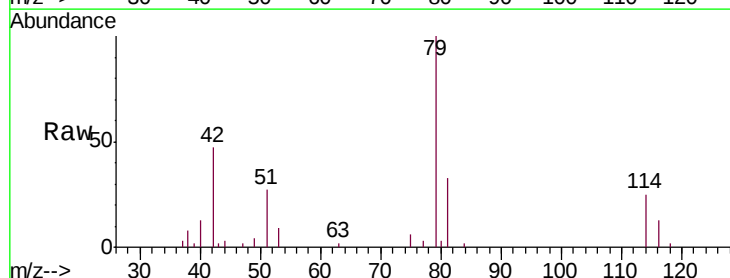
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H4411DL

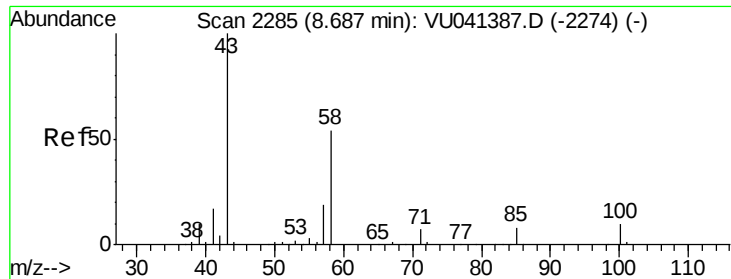
Tgt Ion: 75 Resp: 886  
 Ion Ratio Lower Upper  
 75 100  
 77 46.0 22.1 41.1#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.092 ug/L  
 RT: 8.18 min Scan# 2128  
 Delta R.T. -0.03 min  
 Lab File: VU041397.D  
 Acq: 23 Nov 2020 19:03

Tgt Ion: 75 Resp: 573  
 Ion Ratio Lower Upper  
 75 100  
 77 47.2 21.7 40.3#

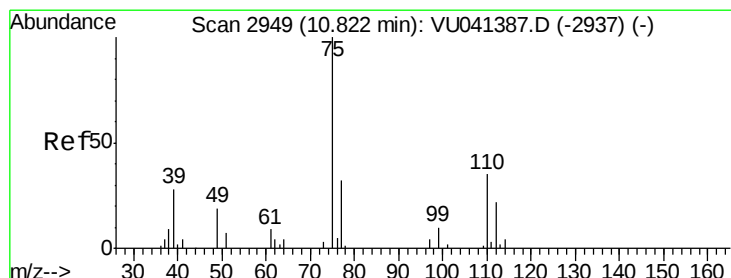
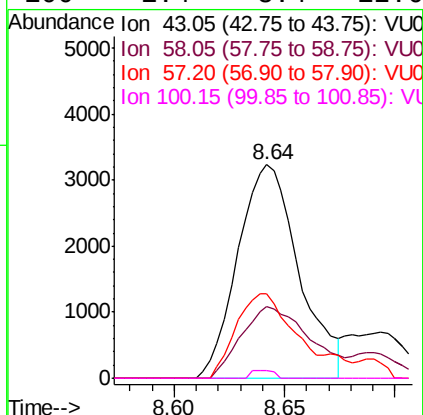
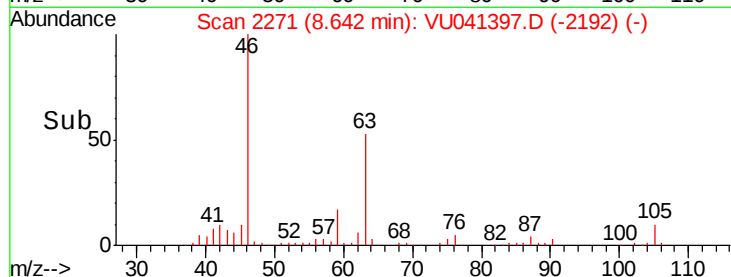
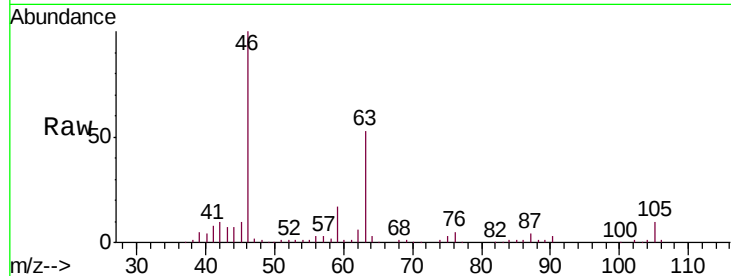




#48  
2-Hexanone  
Concen: 2.801 ug/L  
RT: 8.64 min Scan# 2271  
Delta R.T. -0.04 min  
Lab File: VU041397.D  
Acq: 23 Nov 2020 19:03

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4411DL

Tgt Ion: 43 Resp: 6226  
Ion Ratio Lower Upper  
43 100  
58 37.9 42.0 63.0#  
57 41.4 15.0 22.4#  
100 1.4 8.4 12.6#



#59  
1,2,3-Trichloropropane  
Concen: 1.162 ug/L  
RT: 11.81 min Scan# 3256  
Delta R.T. 0.99 min  
Lab File: VU041397.D  
Acq: 23 Nov 2020 19:03

Tgt Ion: 75 Resp: 3750  
Ion Ratio Lower Upper  
75 100  
77 37.7 25.1 37.7#

