

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112719\  
 Data File : VU035899.D  
 Acq On : 27 Nov 2019 16:10  
 Operator : JC/SP  
 Sample : K5992-06DL 400X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Nov 28 05:02:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR112119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Nov 28 04:57:50 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 225901   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 264504   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 75692    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.62   | 65    | 130510   | 4.42     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 88.40% |
| 7) Chloroethane-d5             | 1.93   | 69    | 124249   | 4.86     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.20% |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 164976   | 3.01     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 60.20% |
| 20) 2-Butanone-d5              | 4.69   | 46    | 208426   | 30.52    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 61.04% |
| 24) Chloroform-d               | 5.11   | 84    | 208835   | 4.18     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 83.60% |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 125455   | 4.47     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.40% |
| 32) Benzene-d6                 | 5.77   | 84    | 432703   | 4.29     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 85.80% |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 151628   | 4.46     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 89.20% |
| 41) Toluene-d8                 | 7.93   | 98    | 346302   | 3.72     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 74.40% |
| 43) trans-1,3-Dichloropropene- | 8.22   | 79    | 49969    | 3.77     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 75.40% |
| 46) 2-Hexanone-d5              | 8.69   | 63    | 226665   | 42.62    | ug/L | 0.02   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 85.24% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79  | 84    | 120960   | 4.22     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 84.40% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 81846    | 4.98     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 99.60% |

## Target Compounds

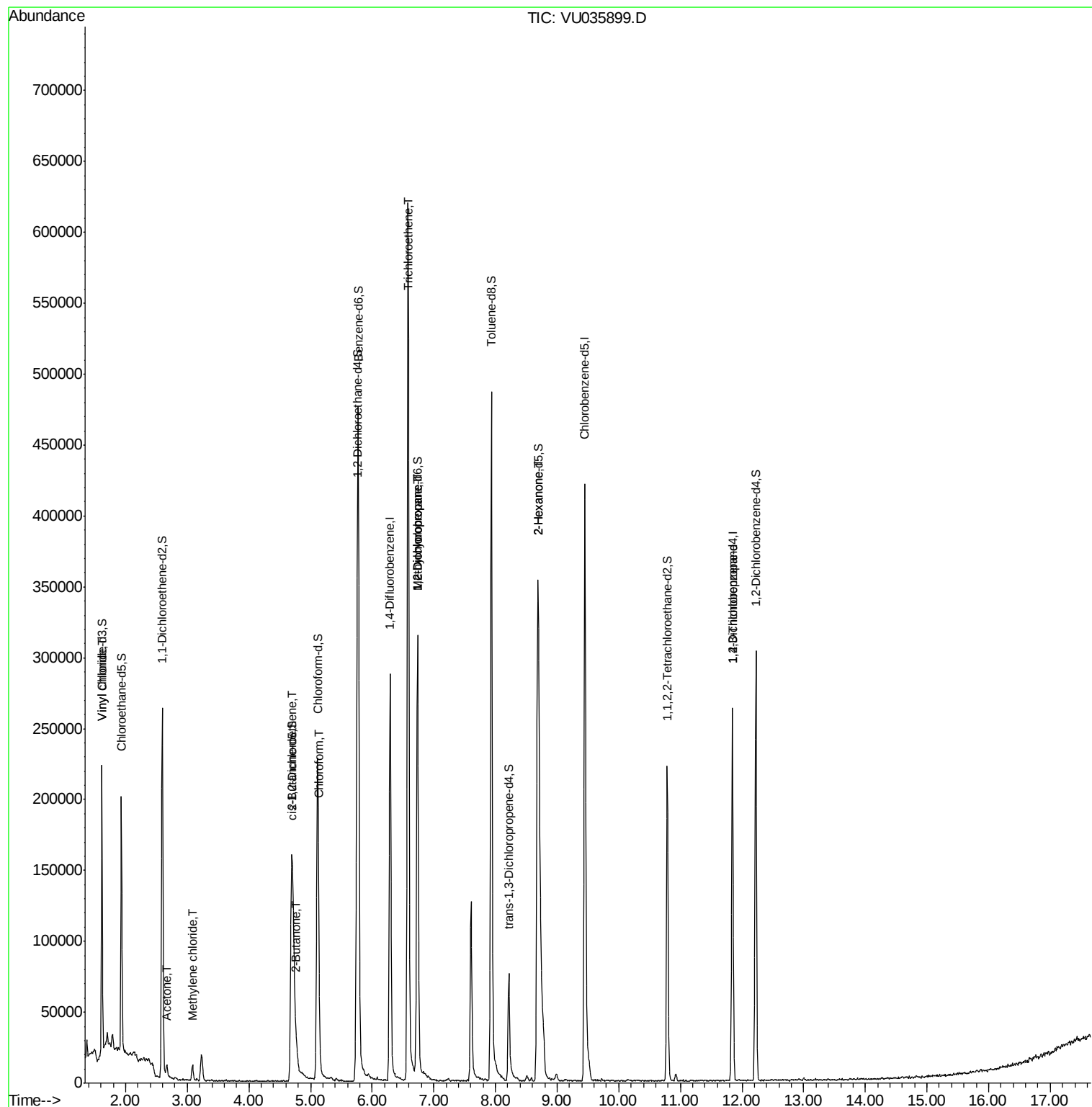
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 5) Vinyl chloride          | 1.62  | 62   | 7056     | 0.187 | ug/L # | 1      |
| 13) Acetone                | 2.67  | 43   | 9972     | 1.663 | ug/L   | 93     |
| 16) Methylene chloride     | 3.09  | 84   | 5105     | 0.180 | ug/L   | 86     |
| 21) 2-Butanone             | 4.76  | 43   | 28473    | 3.751 | ug/L # | 73     |
| 22) cis-1,2-Dichloroethene | 4.72  | 96   | 21635    | 0.839 | ug/L   | 95     |
| 25) Chloroform             | 5.14  | 83   | 24443    | 0.483 | ug/L   | 99     |
| 34) Trichloroethene        | 6.58  | 95   | 224234   | 8.284 | ug/L   | 97     |
| 35) Methylcyclohexane      | 6.73  | 83   | 34663    | 0.873 | ug/L # | 14     |
| 37) 1,2-Dichloropropane    | 6.74  | 63   | 15912    | 0.508 | ug/L # | 92     |
| 48) 2-Hexanone             | 8.68  | 43   | 31339    | 2.214 | ug/L # | 58     |
| 59) 1,2,3-Trichloropropane | 11.84 | 75   | 10180    | 0.500 | ug/L # | 86     |

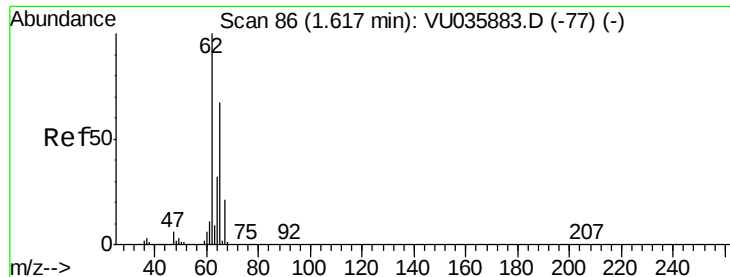
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU112719\  
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Sample : K5992-06DL 400X  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Nov 28 05:02:00 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR112119WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Nov 28 04:57:50 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.187 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU035899.D

Acq: 27 Nov 2019 16:10

Instrument :

MSVOA\_U

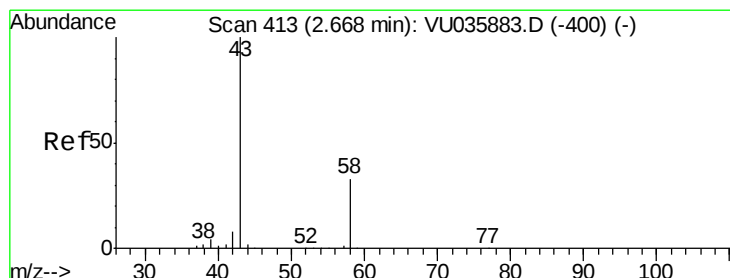
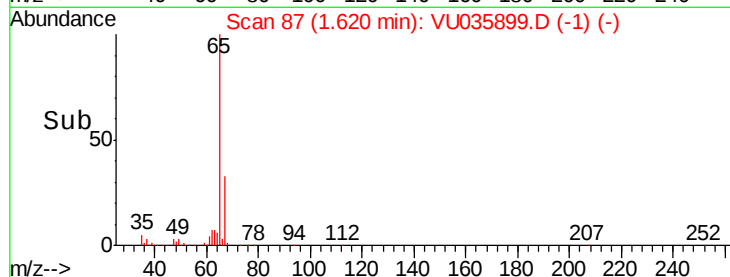
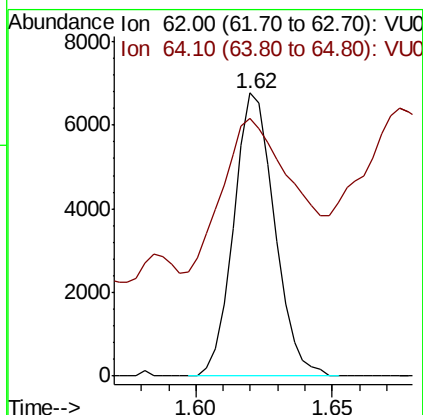
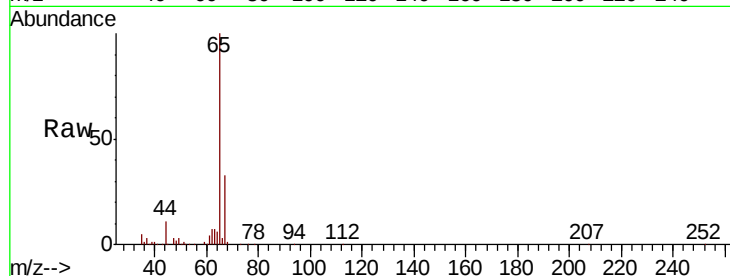
ClientSampleId :

Tot Ion: 62 Resp: 7056

Ion Ratio Lower Upper

62 100

64 91.0 22.5 41.9#



#13

Acetone

Concen: 1.663 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.00 min

Lab File: VU035899.D

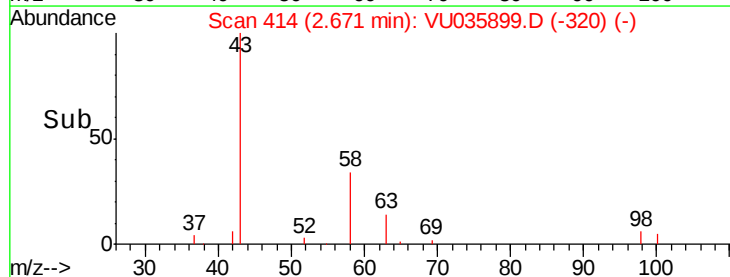
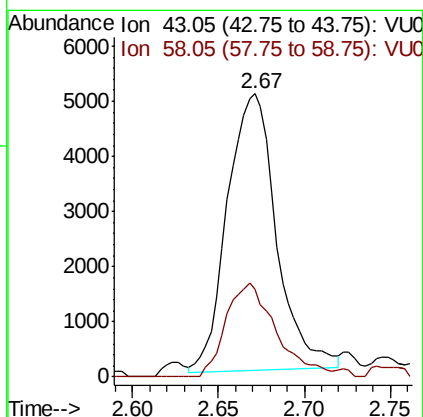
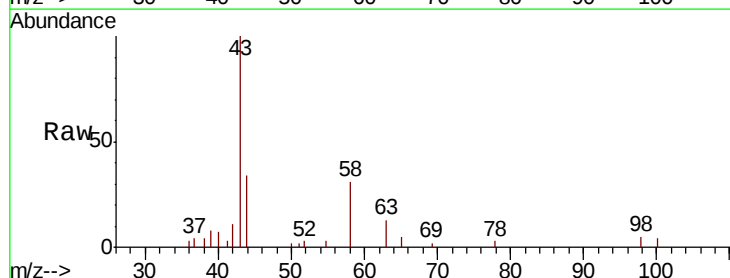
Acq: 27 Nov 2019 16:10

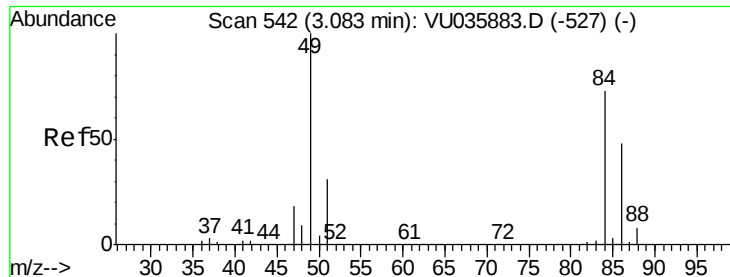
Tgt Ion: 43 Resp: 9972

Ion Ratio Lower Upper

43 100

58 34.5 0.0 61.2

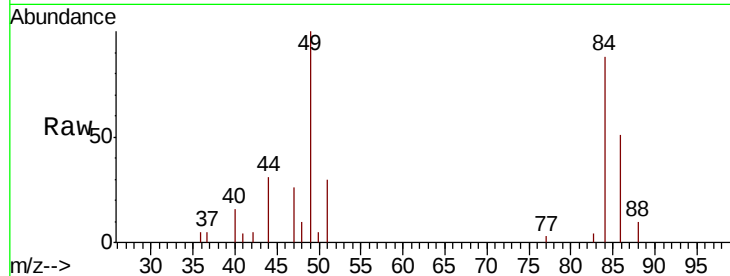




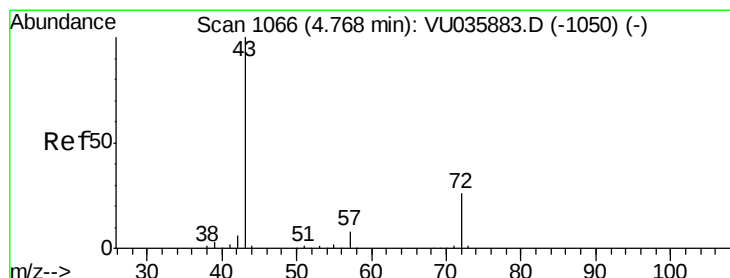
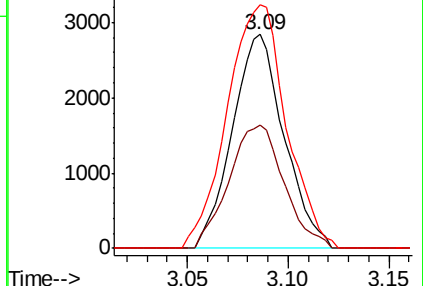
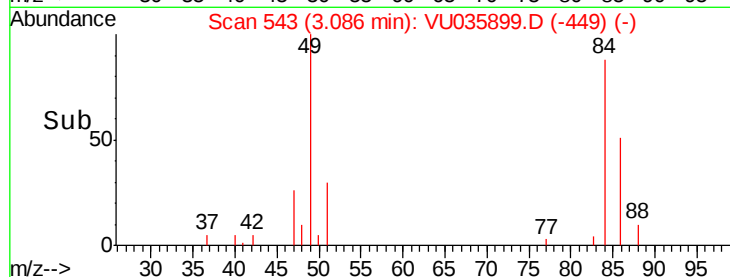
#16  
Methylene chloride  
Concen: 0.180 ug/L  
RT: 3.09 min Scan# 543  
Delta R.T. 0.00 min  
Lab File: VU035899.D  
Acq: 27 Nov 2019 16:10

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 84 Resp: 5105  
Ion Ratio Lower Upper  
84 100  
86 57.7 44.4 82.5  
49 113.9 94.0 174.6

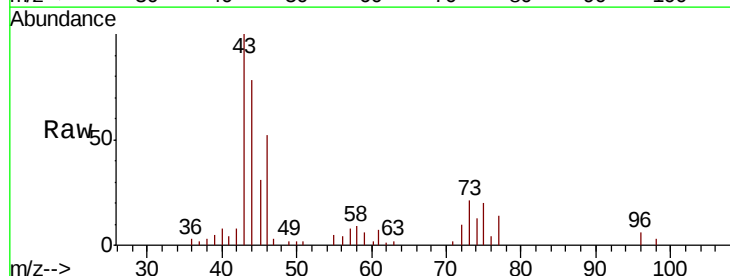


Abundance Ion 84.05 (83.75 to 84.75): VU0  
Ion 86.00 (85.70 to 86.70): VU0  
Ion 49.10 (48.80 to 49.80): VU0

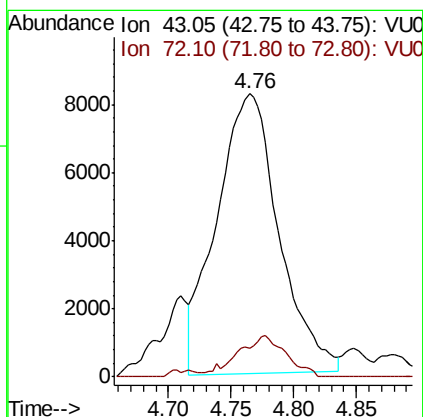
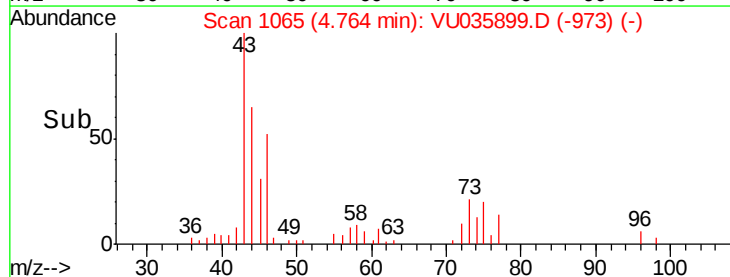


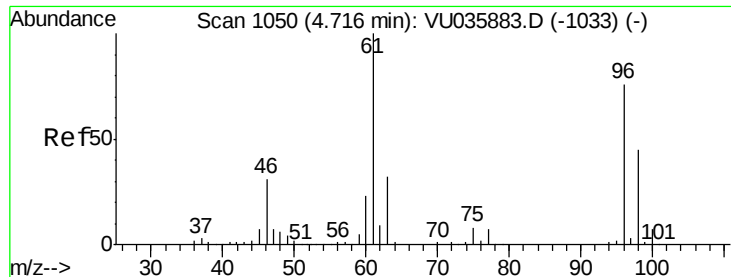
#21  
2-Butanone  
Concen: 3.751 ug/L  
RT: 4.76 min Scan# 1065  
Delta R.T. -0.00 min  
Lab File: VU035899.D  
Acq: 27 Nov 2019 16:10

Tgt Ion: 43 Resp: 28473  
Ion Ratio Lower Upper  
43 100  
72 11.4 12.4 37.4#



Abundance Ion 43.05 (42.75 to 43.75): VU0  
Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 0.839 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU035899.D

Acq: 27 Nov 2019 16:10

Instrument :  
MSVOA\_U  
ClientSampled :

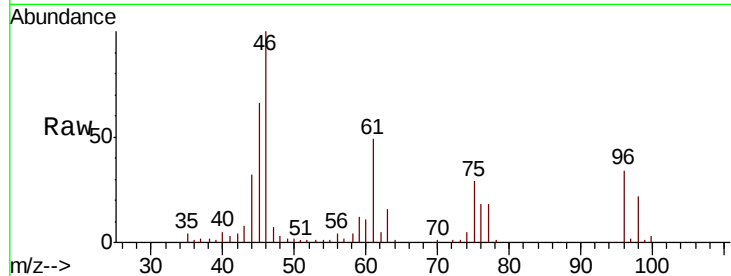
Tot Ion: 96 Resp: 21635

Ion Ratio Lower Upper

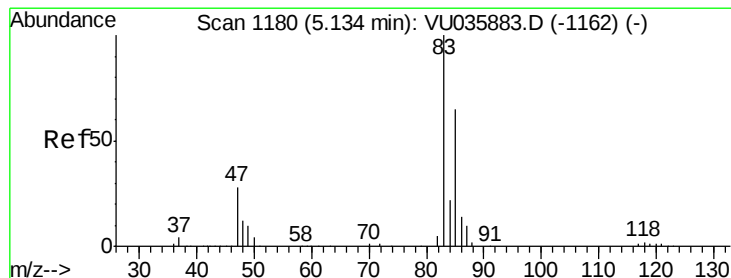
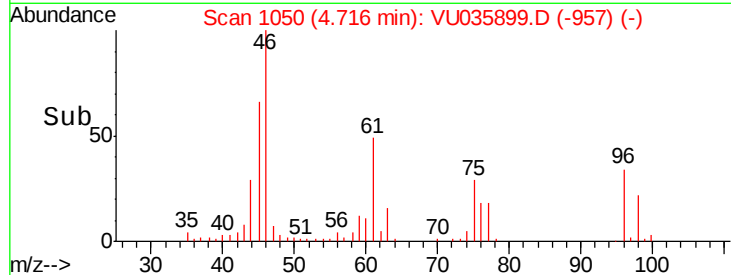
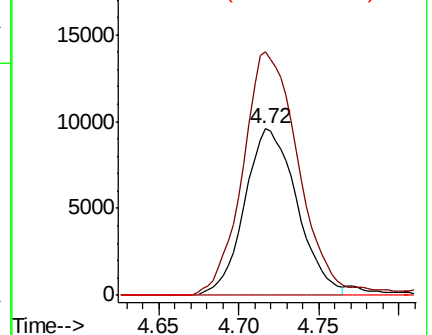
96 100

61 146.2 98.1 182.1

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



#25

Chloroform

Concen: 0.483 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VU035899.D

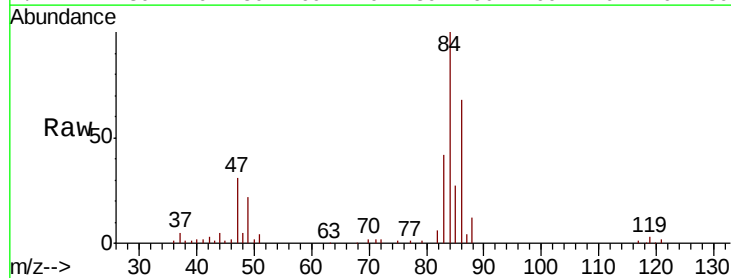
Acq: 27 Nov 2019 16:10

Tgt Ion: 83 Resp: 24443

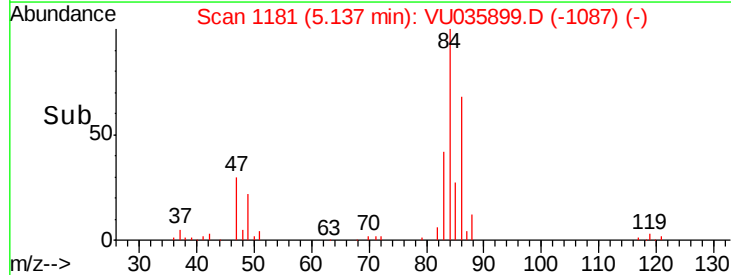
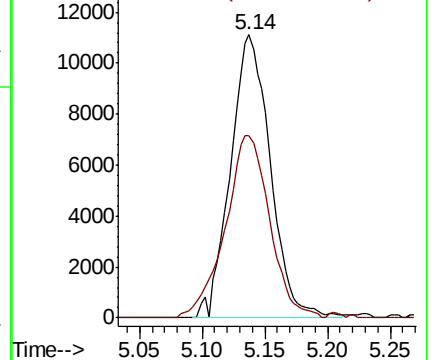
Ion Ratio Lower Upper

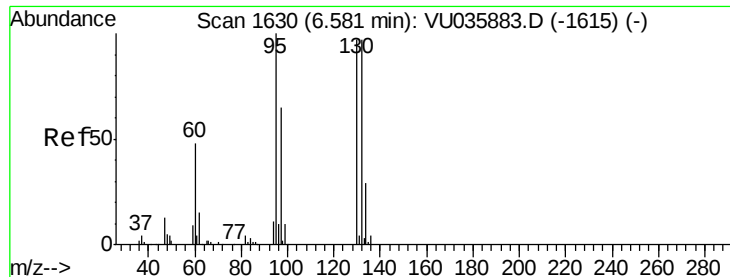
83 100

85 64.5 44.6 82.8



Abundance Ion 83.05 (82.75 to 83.75): VU0  
Ion 85.00 (84.70 to 85.70): VU0





#34

Trichloroethene

Concen: 8.284 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU035899.D

Acq: 27 Nov 2019 16:10

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 95 Resp: 224234

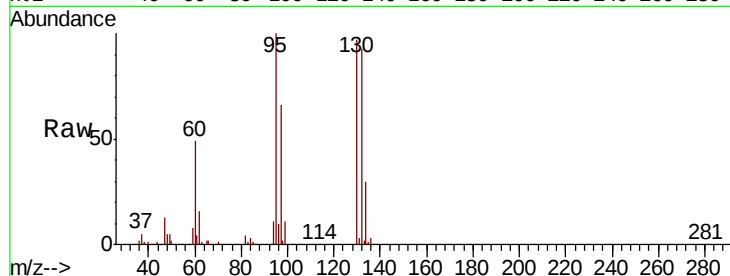
Ion Ratio Lower Upper

95 100

97 65.6 45.1 83.9

132 92.8 61.9 114.9

130 96.9 66.3 123.1

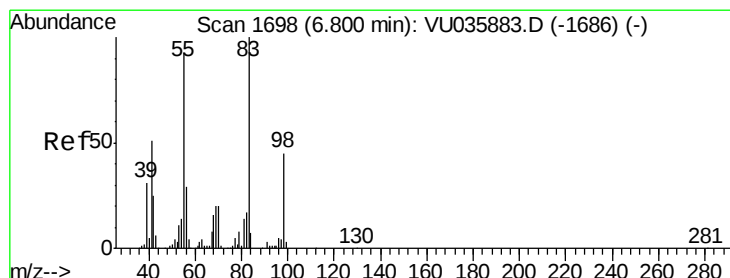
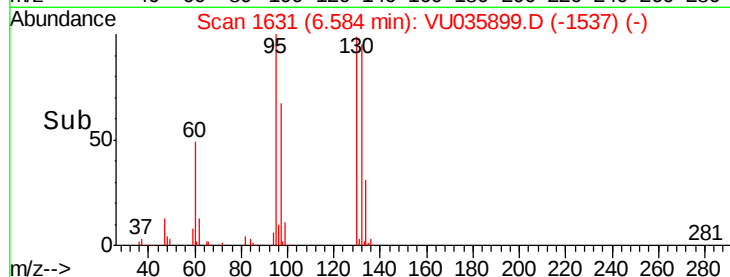
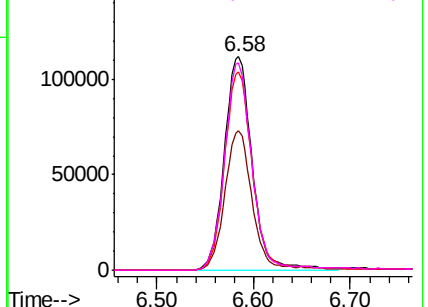


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.873 ug/L

RT: 6.73 min Scan# 1677

Delta R.T. -0.07 min

Lab File: VU035899.D

Acq: 27 Nov 2019 16:10

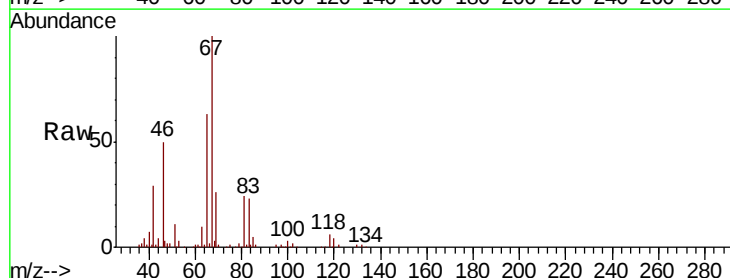
Tgt Ion: 83 Resp: 34663

Ion Ratio Lower Upper

83 100

55 0.5 72.7 109.1#

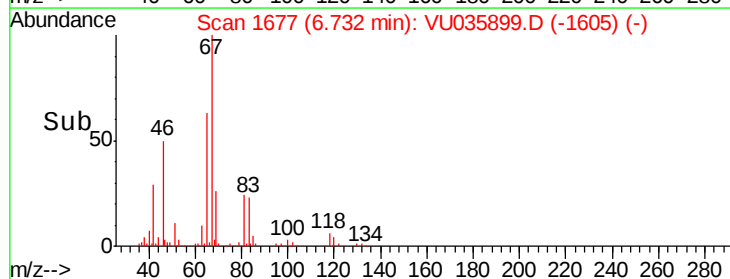
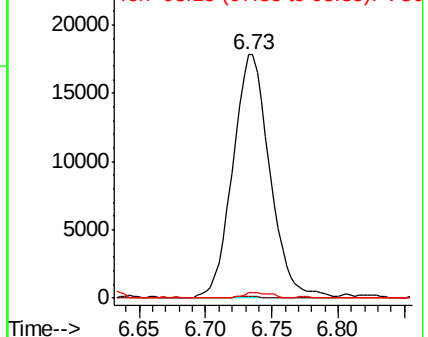
98 1.8 36.2 54.4#

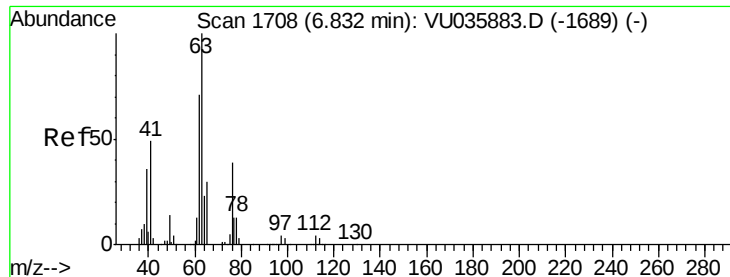


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

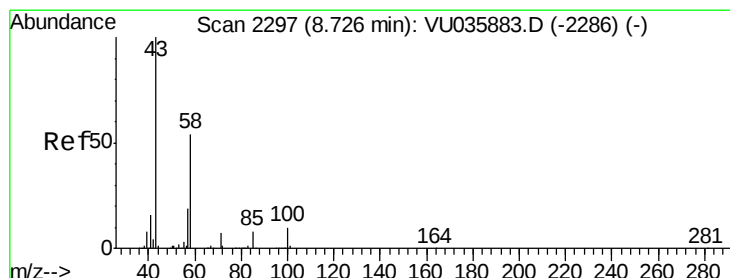
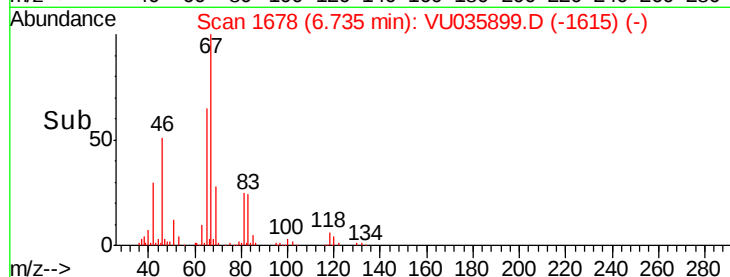
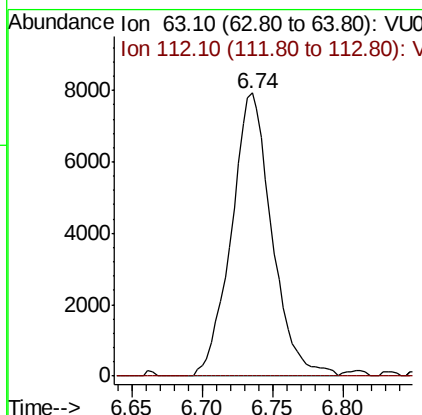
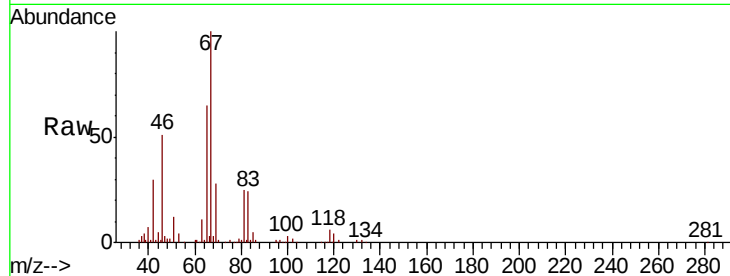




#37  
 1,2-Dichloropropane  
 Concen: 0.508 ug/L  
 RT: 6.74 min Scan# 1678  
 Delta R.T. -0.10 min  
 Lab File: VU035899.D  
 Acq: 27 Nov 2019 16:10

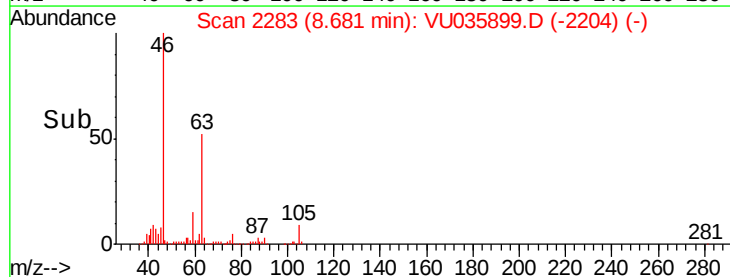
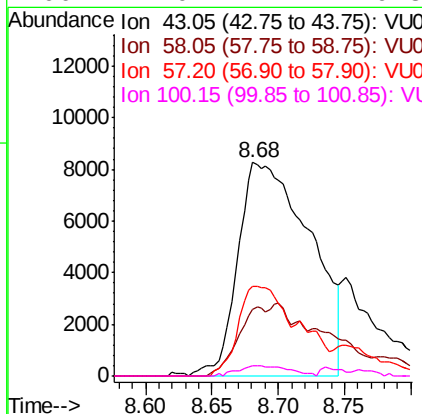
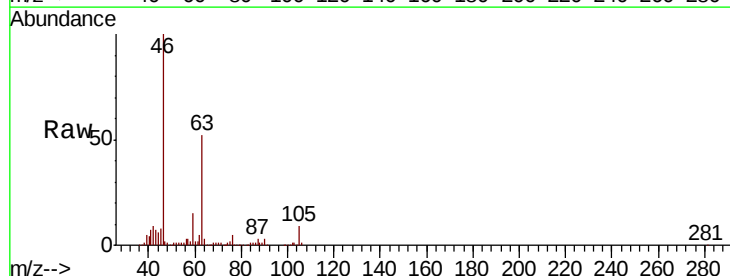
Instrument :  
 MSVOA\_U  
 ClientSampleId :

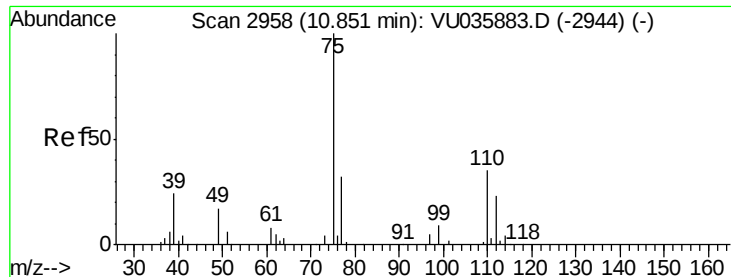
Tot Ion: 63 Resp: 15912  
 Ion Ratio Lower Upper  
 63 100  
 112 0.7 2.7 4.1#



#48  
 2-Hexanone  
 Concen: 2.214 ug/L  
 RT: 8.68 min Scan# 2283  
 Delta R.T. -0.04 min  
 Lab File: VU035899.D  
 Acq: 27 Nov 2019 16:10

Tgt Ion: 43 Resp: 31339  
 Ion Ratio Lower Upper  
 43 100  
 58 12.5 39.8 59.8#  
 57 26.0 14.0 21.0#  
 100 2.0 7.2 10.8#





#59

1,2,3-Trichloropropane

Concen: 0.500 ug/L

RT: 11.84 min Scan# 3266

Delta R.T. 0.99 min

Lab File: VU035899.D

Acq: 27 Nov 2019 16:10

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 75 Resp: 10180

Ion Ratio Lower Upper

75 100

77 39.5 25.4 38.2#

