

Data File : VU034855.D  
Acq On : 26 Sep 2019 20:27  
Operator : JC/SP  
Sample : K5044-03  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
CWK35

Quant Time: Sep 27 05:15:01 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR091819WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Sep 27 05:10:18 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 92174    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 86836    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 42252    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 33309    | 4.54     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 90.80% |
| 7) Chloroethane-d5             | 1.67   | 69    | 28874    | 4.85     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.00% |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 51263    | 3.96     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 79.20% |
| 20) 2-Butanone-d5              | 4.17   | 46    | 89520    | 49.65    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.30% |
| 24) Chloroform-d               | 4.62   | 84    | 51771    | 4.63     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.60% |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 28542    | 4.48     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.60% |
| 32) Benzene-d6                 | 5.31   | 84    | 108096   | 4.68     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.60% |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 37095    | 4.76     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.20% |
| 41) Toluene-d8                 | 7.54   | 98    | 102002   | 4.67     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.40% |
| 43) trans-1,3-Dichloropropene- | 7.83   | 79    | 12901    | 4.09     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 81.80% |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 63549    | 45.26    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 90.52% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 26605    | 4.39     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 87.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84  | 152   | 34492    | 4.74     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.80% |

#### Target Compounds

|                              |       |     |         |              | Qvalue |
|------------------------------|-------|-----|---------|--------------|--------|
| 3) Chloromethane             | 1.32  | 50  | 5760    | 0.875 ug/L   | 98     |
| 5) Vinyl chloride            | 1.40  | 62  | 4870    | 0.706 ug/L   | 90     |
| 8) Chloroethane              | 1.69  | 64  | 502     | 0.125 ug/L   | 99     |
| 12) 1,1-Dichloroethene       | 2.27  | 96  | 2223    | 0.489 ug/L # | 1      |
| 13) Acetone                  | 2.31  | 43  | 2196    | 1.576 ug/L   | 94     |
| 18) trans-1,2-Dichloroethene | 2.96  | 96  | 1402    | 0.297 ug/L   | 91     |
| 22) cis-1,2-Dichloroethene   | 4.20  | 96  | 188948  | 29.901 ug/L  | 98     |
| 25) Chloroform               | 4.64  | 83  | 2609    | 0.202 ug/L   | 97     |
| 33) Benzene                  | 5.37  | 78  | 3275    | 0.139 ug/L   | 100    |
| 34) Trichloroethene          | 6.16  | 95  | 1583107 | 270.492 ug/L | 98     |
| 35) Methylcyclohexane        | 6.31  | 83  | 8174    | 0.865 ug/L # | 17     |
| 37) 1,2-Dichloropropane      | 6.31  | 63  | 4155    | 0.573 ug/L # | 92     |
| 42) Toluene                  | 7.61  | 91  | 175754  | 6.927 ug/L   | 100    |
| 47) Tetrachloroethene        | 8.21  | 164 | 15916   | 4.486 ug/L   | 93     |
| 49) Dibromochloromethane     | 8.21  | 129 | 15159   | 2.803 ug/L # | 12     |
| 51) Chlorobenzene            | 9.10  | 112 | 13636   | 0.857 ug/L   | 96     |
| 59) 1,2,3-Trichloropropane   | 11.46 | 75  | 7044    | 1.487 ug/L   | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU092719\  
Quantitation Report (Not Reviewed)

Data File : VU034855.D  
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CWK35

Quant Time: Sep 27 05:15:01 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR091819WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Sep 27 05:10:18 2019  
Response via : Initial Calibration

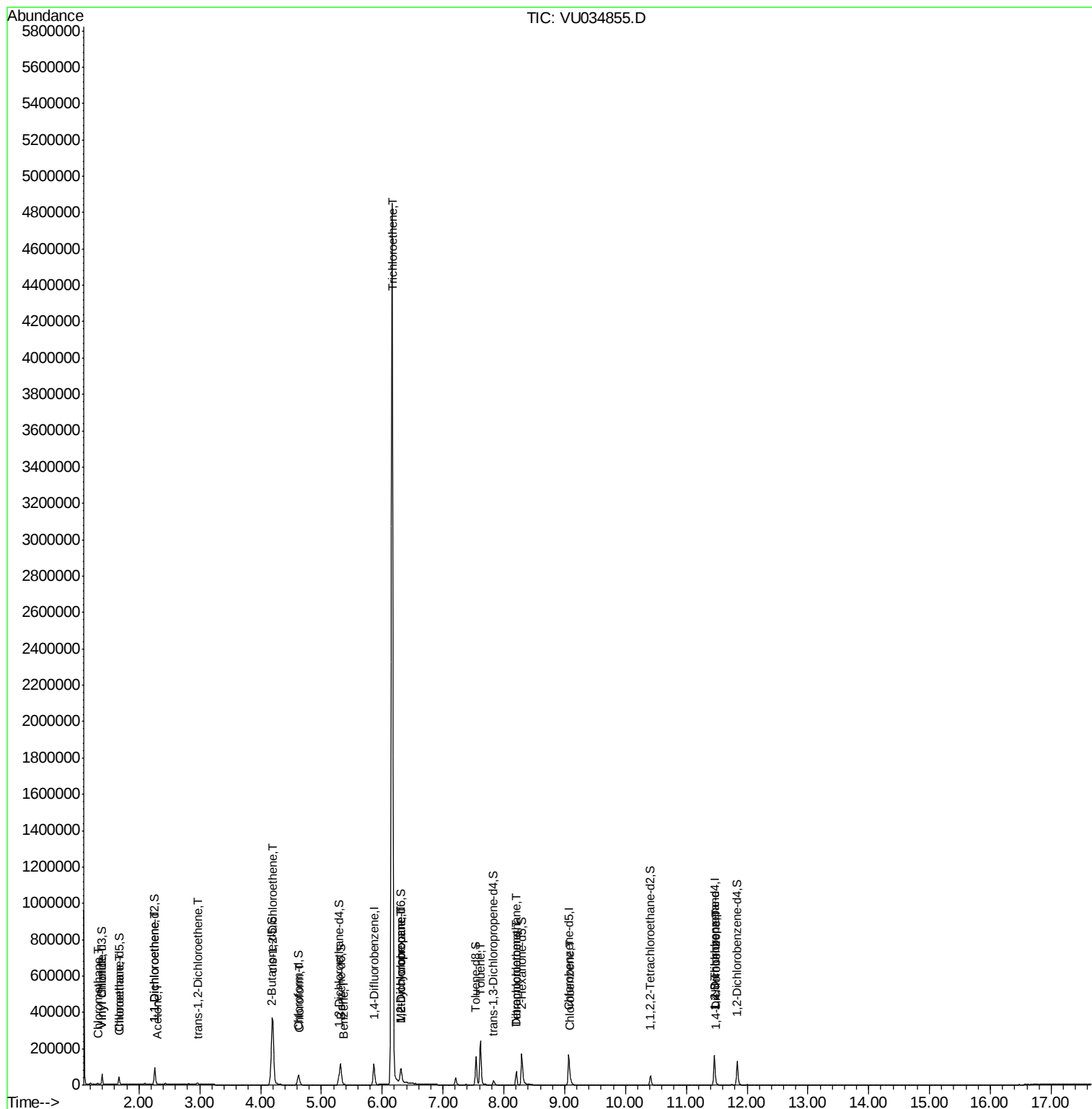
| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 63) 1,4-Dichlorobenzene | 11.49 | 146  | 2345     | 0.189 | ug/L  | 98       |

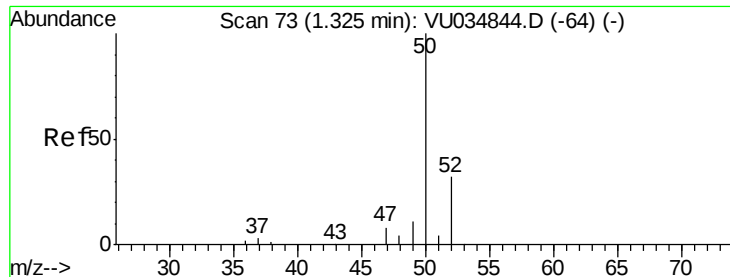
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.875 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU034855.D

Acq: 26 Sep 2019 20:27

Instrument :

MSVOA\_U

ClientSampleId :

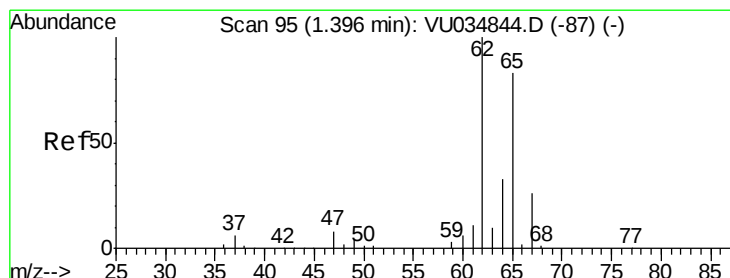
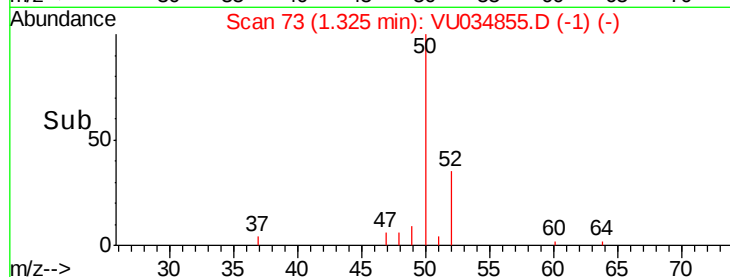
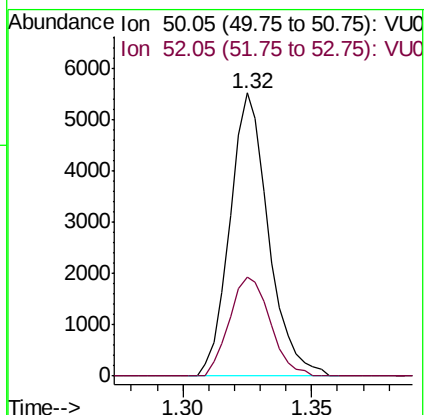
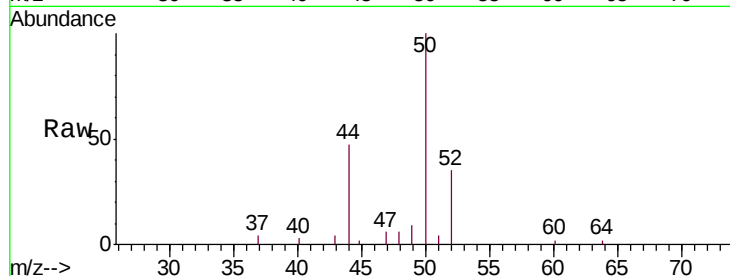
CWK35

Tgt Ion: 50 Resp: 5760

Ion Ratio Lower Upper

50 100

52 35.2 23.9 44.3



#5

Vinyl chloride

Concen: 0.706 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034855.D

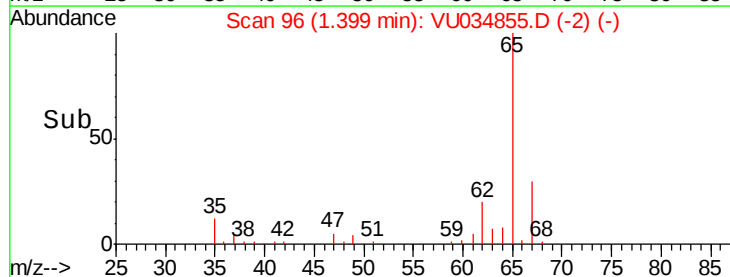
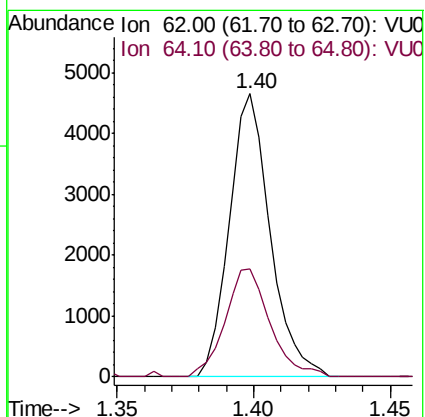
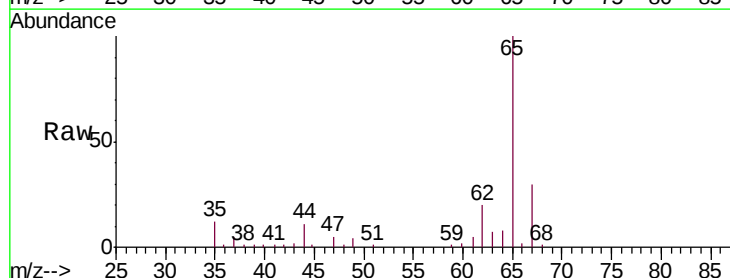
Acq: 26 Sep 2019 20:27

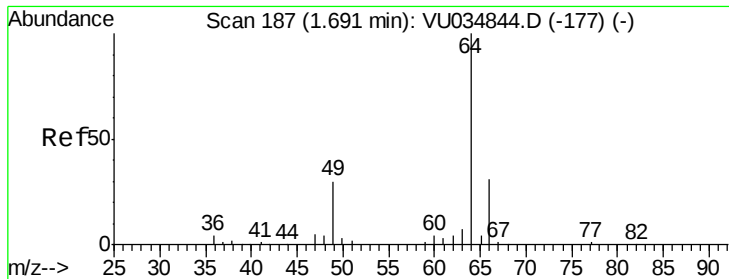
Tgt Ion: 62 Resp: 4870

Ion Ratio Lower Upper

62 100

64 38.2 22.7 42.1





#8

Chloroethane

Concen: 0.125 ug/L

RT: 1.69 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU034855.D

Acq: 26 Sep 2019 20:27

Instrument :

MSVOA\_U

ClientSampled :

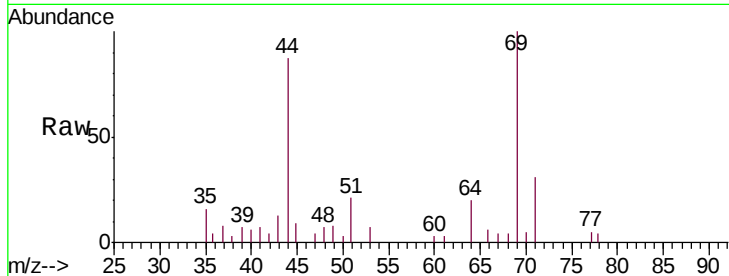
CWK35

Tgt Ion: 64 Resp: 502

Ion Ratio Lower Upper

64 100

66 31.7 22.6 42.0



Abundance Ion 64.10 (63.80 to 64.80): VU034844.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU034844.D (-177) (-)

1.69

600

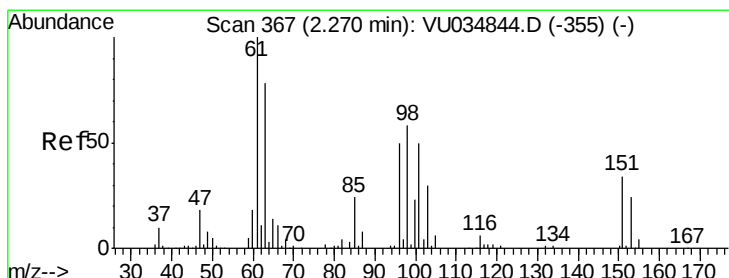
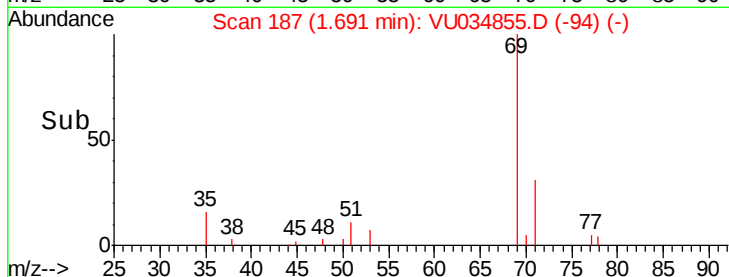
400

200

0

1.66 1.68 1.70 1.72 1.74

Time-->



#12

1,1-Dichloroethene

Concen: 0.489 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU034855.D

Acq: 26 Sep 2019 20:27

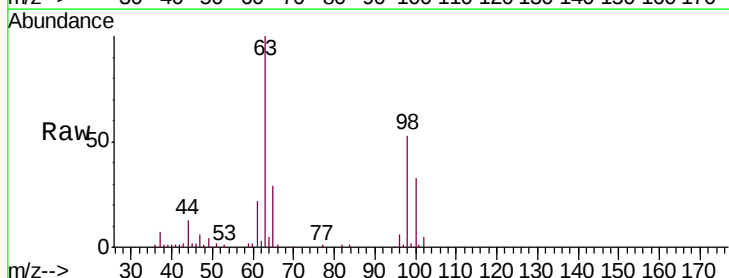
Tgt Ion: 96 Resp: 2223

Ion Ratio Lower Upper

96 100

61 357.4 144.4 268.2#

63 1649.9 111.5 207.1#



Abundance Ion 96.00 (95.70 to 96.70): VU034844.D (-355) (-)

Ion 61.05 (60.75 to 61.75): VU034844.D (-355) (-)

Ion 63.00 (62.70 to 63.70): VU034844.D (-355) (-)

40000

30000

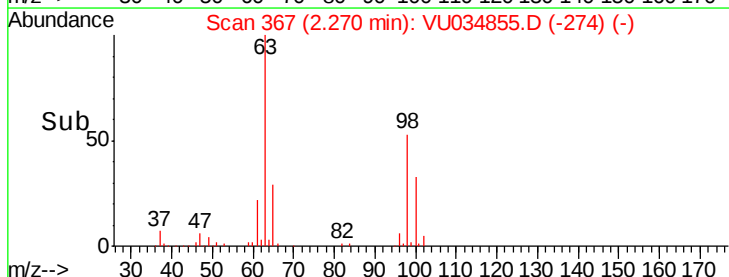
20000

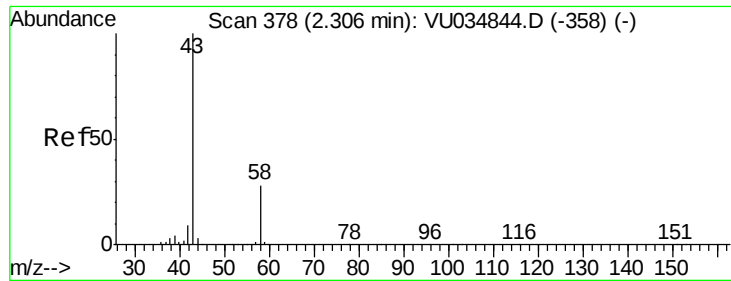
10000

0

2.25 2.30

Time-->





#13

Acetone

Concen: 1.576 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU034855.D

Acq: 26 Sep 2019 20:27

Instrument :

MSVOA\_U

ClientSampleId :

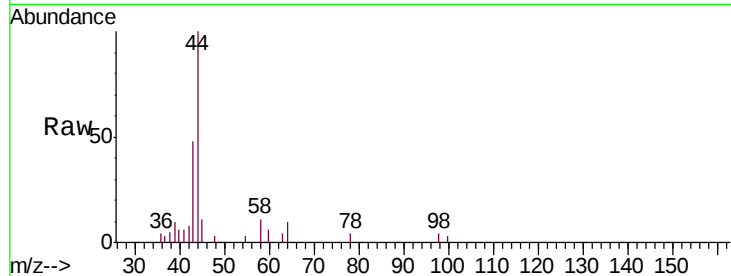
CWK35

Tgt Ion: 43 Resp: 2196

Ion Ratio Lower Upper

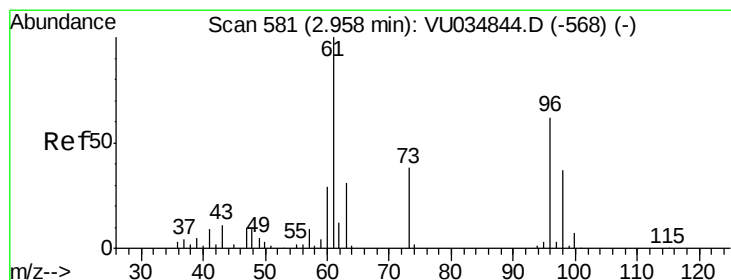
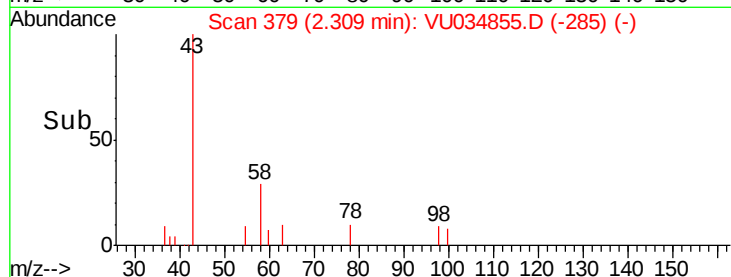
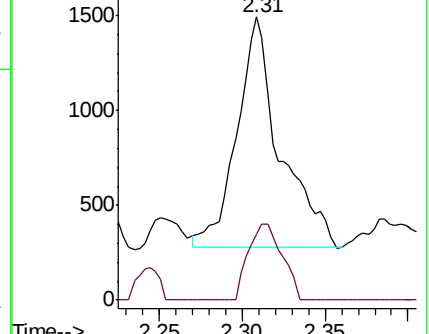
43 100

58 26.0 0.0 57.8



Abundance Ion 43.05 (42.75 to 43.75): VU034844.D (-358) (-)

Ion 58.05 (57.75 to 58.75): VU034844.D (-358) (-)



#18

trans-1,2-Dichloroethene

Concen: 0.297 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.01 min

Lab File: VU034855.D

Acq: 26 Sep 2019 20:27

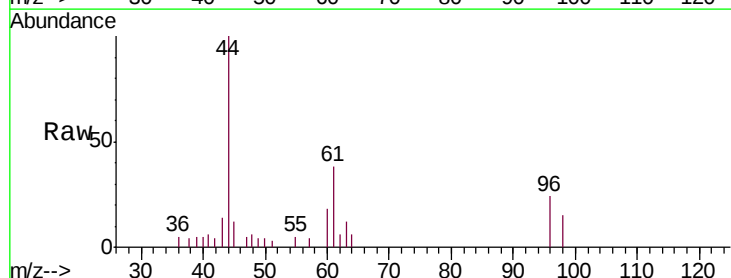
Tgt Ion: 96 Resp: 1402

Ion Ratio Lower Upper

96 100

61 153.4 118.2 219.6

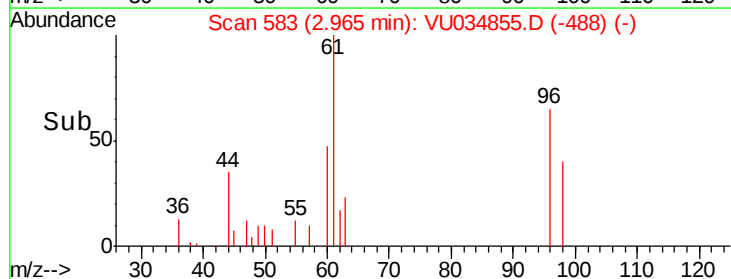
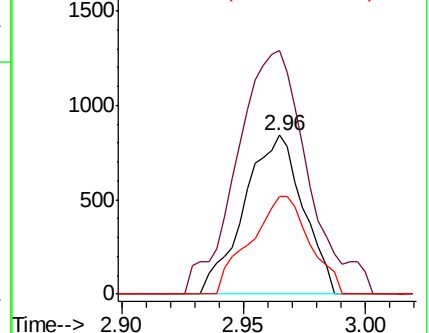
98 61.2 44.8 83.2

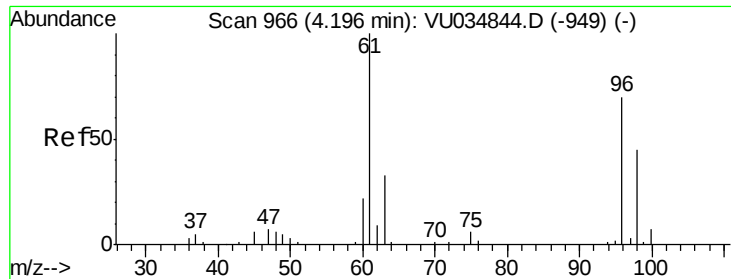


Abundance Ion 96.00 (95.70 to 96.70): VU034844.D (-568) (-)

Ion 61.05 (60.75 to 61.75): VU034844.D (-568) (-)

Ion 97.95 (97.65 to 98.65): VU034844.D (-568) (-)



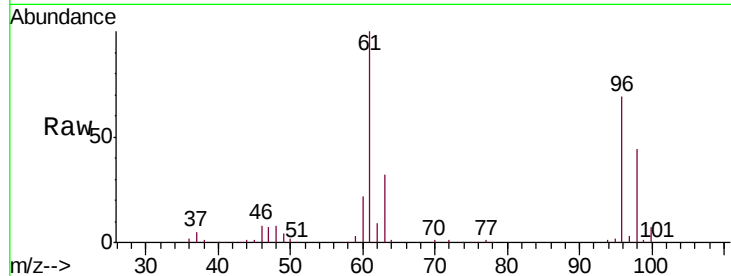


#22

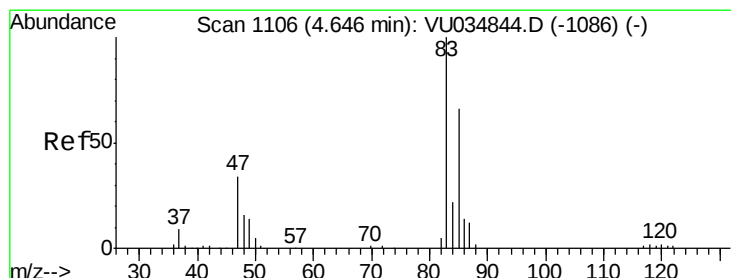
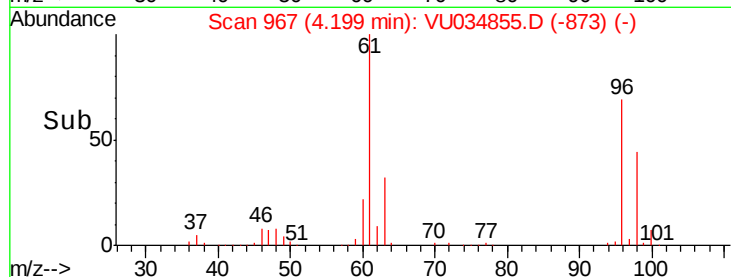
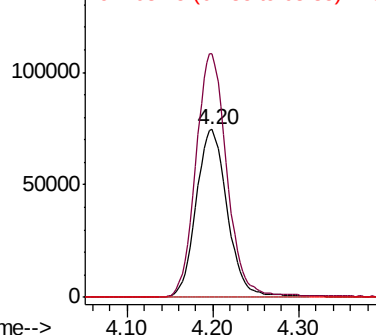
cis-1,2-Dichloroethene  
 Concen: 29.901 ug/L  
 RT: 4.20 min Scan# 967  
 Delta R.T. 0.00 min  
 Lab File: VU034855.D  
 Acq: 26 Sep 2019 20:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 CWK35

Tgt Ion: 96 Resp: 188948  
 Ion Ratio Lower Upper  
 96 100  
 61 145.4 100.0 185.8  
 68 0.0 0.0 0.0



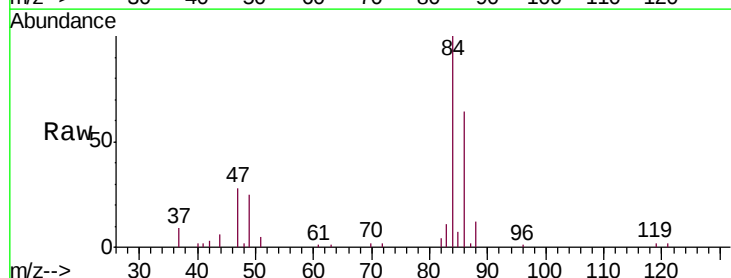
Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0



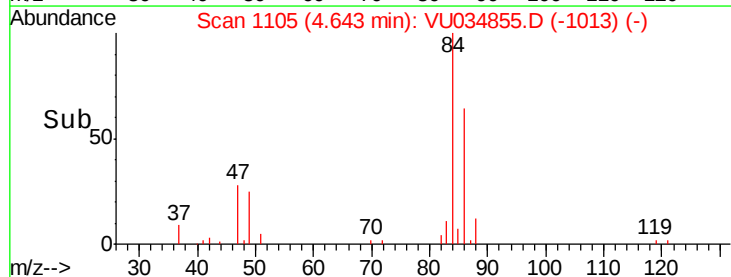
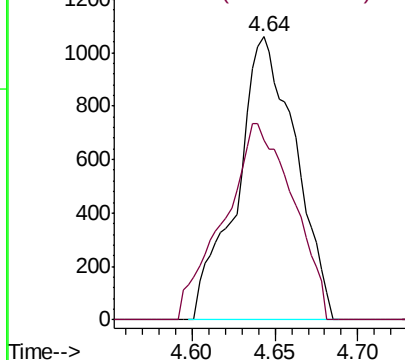
#25

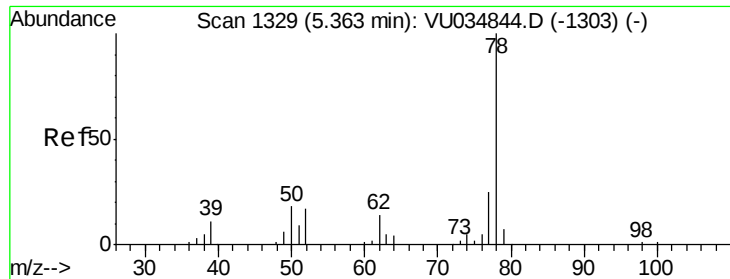
Chloroform  
 Concen: 0.202 ug/L  
 RT: 4.64 min Scan# 1105  
 Delta R.T. -0.00 min  
 Lab File: VU034855.D  
 Acq: 26 Sep 2019 20:27

Tgt Ion: 83 Resp: 2609  
 Ion Ratio Lower Upper  
 83 100  
 85 63.5 42.8 79.4



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





#33

Benzene

Concen: 0.139 ug/L

RT: 5.37 min Scan# 1332

Delta R.T. 0.01 min

Lab File: VU034855.D

Acq: 26 Sep 2019 20:27

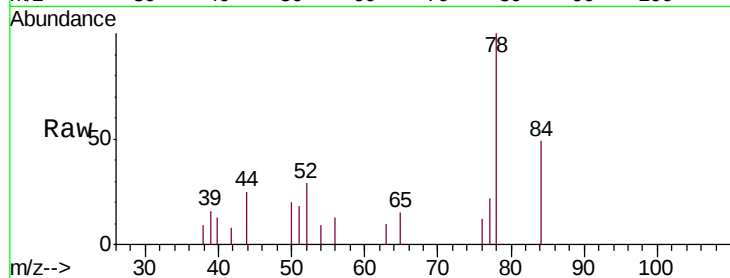
Instrument :

MSVOA\_U

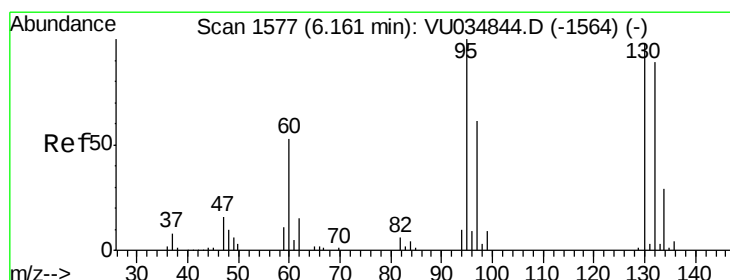
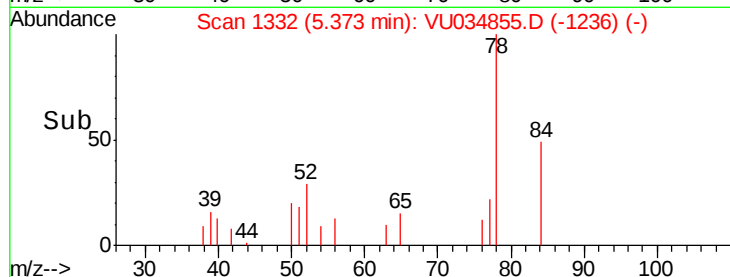
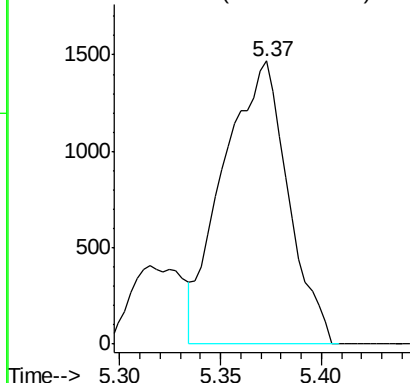
ClientSampled :

CWK35

Tgt Ion: 78 Resp: 3275



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 270.492 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034855.D

Acq: 26 Sep 2019 20:27

Tgt Ion: 95 Resp: 1583107

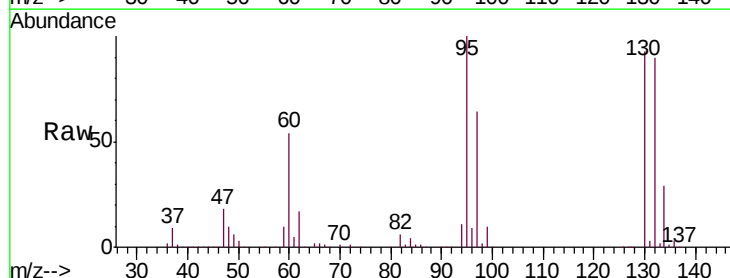
Ion Ratio Lower Upper

95 100

97 63.7 45.2 84.0

132 90.4 60.9 113.1

130 93.3 64.3 119.3

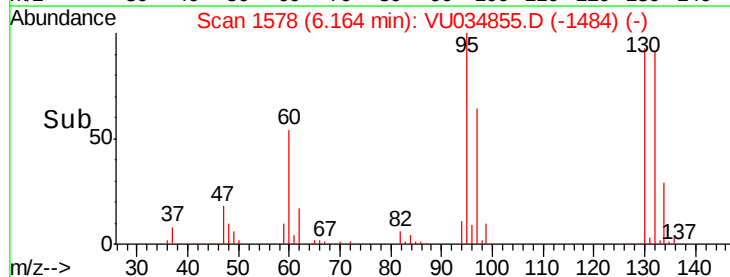
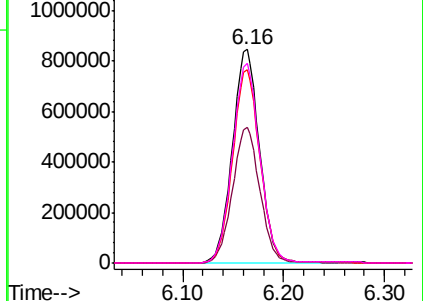


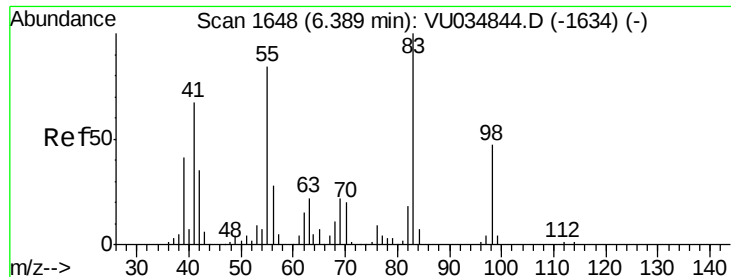
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0





#35

Methylcyclohexane

Concen: 0.865 ug/L

RT: 6.31 min Scan# 1624

Delta R.T. -0.08 min

Lab File: VU034855.D

Acq: 26 Sep 2019 20:27

Instrument :

MSVOA\_U

ClientSampleId :

CWK35

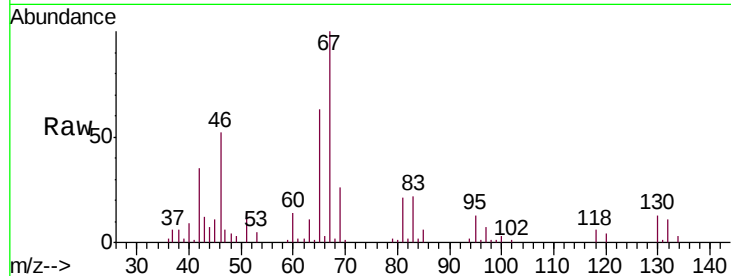
Tgt Ion: 83 Resp: 8174

Ion Ratio Lower Upper

83 100

55 1.4 66.8 100.2#

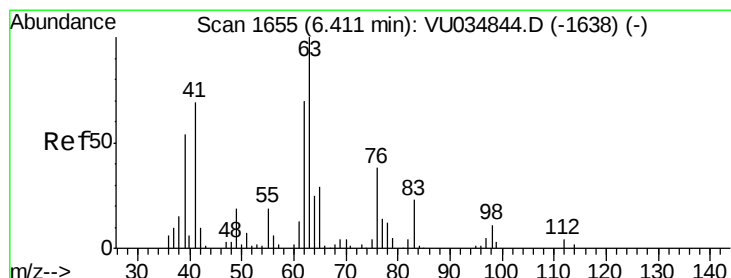
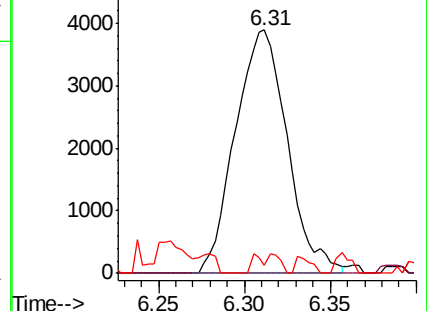
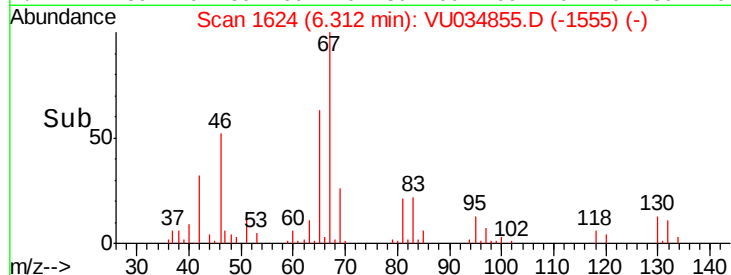
98 0.0 35.4 53.0#



Abundance Ion 83.15 (82.85 to 83.85): VU034844.D (-1634) (-)

Ion 55.10 (54.80 to 55.80): VU034844.D (-1634) (-)

Ion 98.15 (97.85 to 98.85): VU034844.D (-1634) (-)



#37

1,2-Dichloropropane

Concen: 0.573 ug/L

RT: 6.31 min Scan# 1622

Delta R.T. -0.11 min

Lab File: VU034855.D

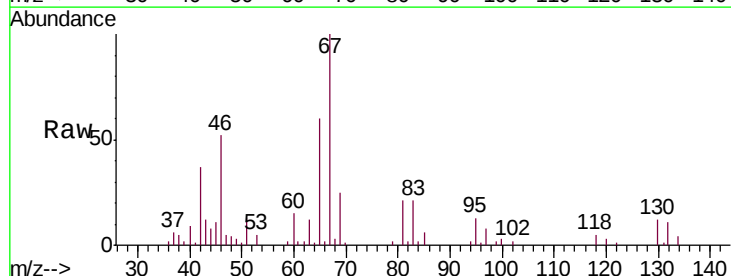
Acq: 26 Sep 2019 20:27

Tgt Ion: 63 Resp: 4155

Ion Ratio Lower Upper

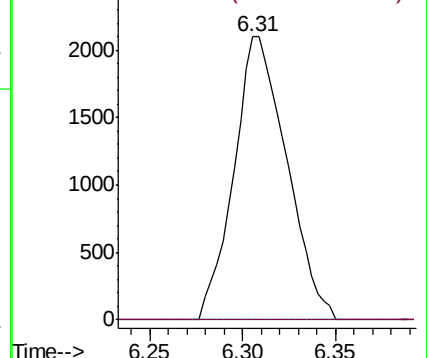
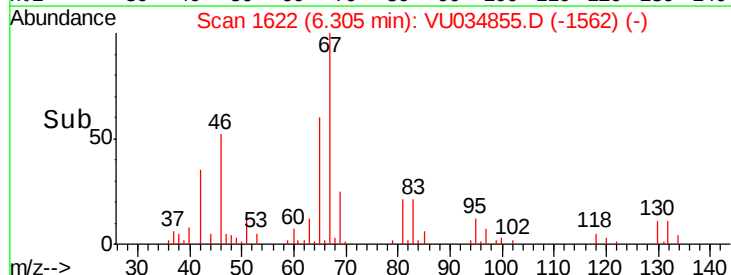
63 100

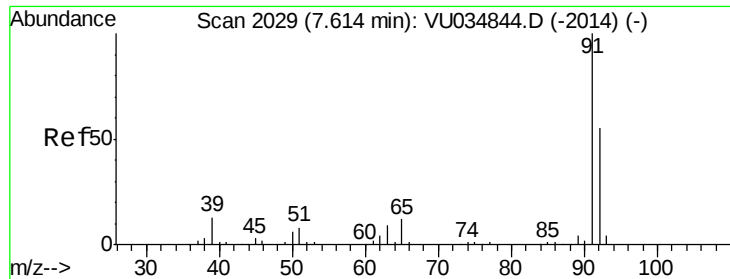
112 0.0 2.2 3.2#



Abundance Ion 63.10 (62.80 to 63.80): VU034844.D (-1638) (-)

Ion 112.10 (111.80 to 112.80): VU034844.D (-1638) (-)





#42

Toluene

Concen: 6.927 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU034855.D

Acq: 26 Sep 2019 20:27

Instrument :

MSVOA\_U

ClientSampleId :

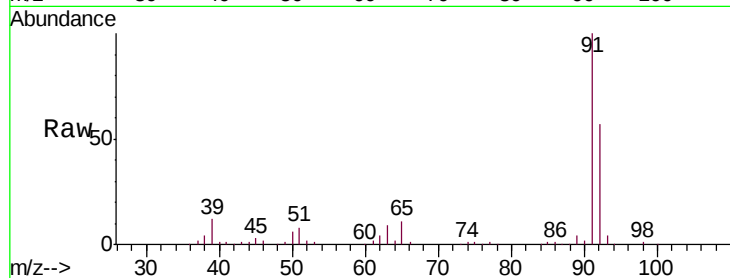
CWK35

Tgt Ion: 91 Resp: 175754

Ion Ratio Lower Upper

91 100

92 56.6 39.6 73.6



Abundance Ion 91.15 (90.85 to 91.85): VU034844.D (-2014) (-)

Ion 92.15 (91.85 to 92.85): VU034844.D (-2014) (-)

7.61

100000

80000

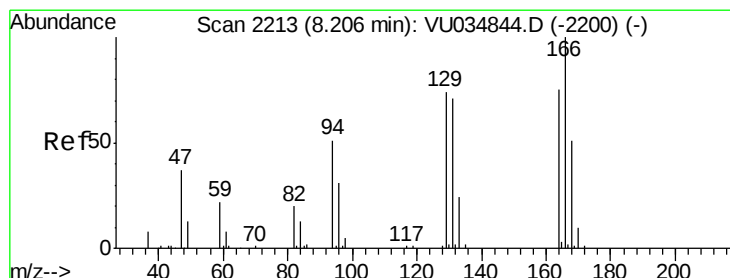
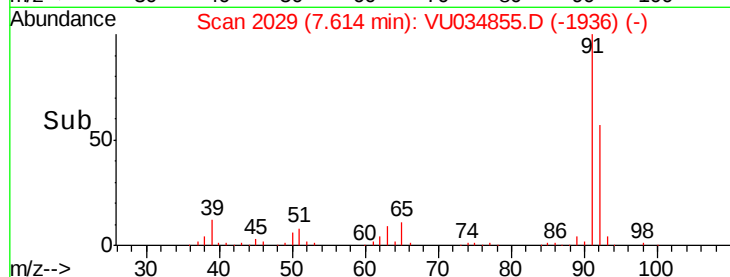
60000

40000

20000

0

Time-->



#47

Tetrachloroethene

Concen: 4.486 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. -0.00 min

Lab File: VU034855.D

Acq: 26 Sep 2019 20:27

Tgt Ion: 164 Resp: 15916

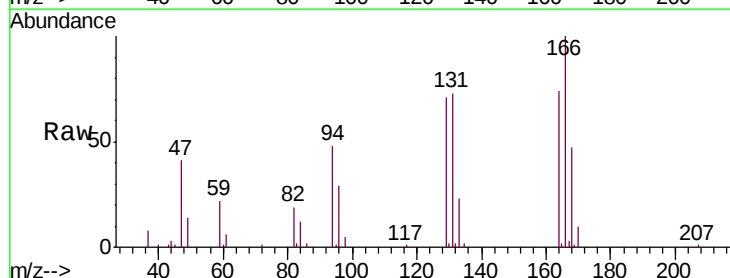
Ion Ratio Lower Upper

164 100

129 96.0 73.6 136.8

131 97.8 73.4 136.4

166 134.5 90.6 168.3



Abundance Ion 163.90 (163.60 to 164.60): VU034844.D (-2200) (-)

Ion 128.95 (128.65 to 129.65): VU034844.D (-2200) (-)

Ion 130.95 (130.65 to 131.65): VU034844.D (-2200) (-)

Ion 165.90 (165.60 to 166.60): VU034844.D (-2200) (-)

8.21

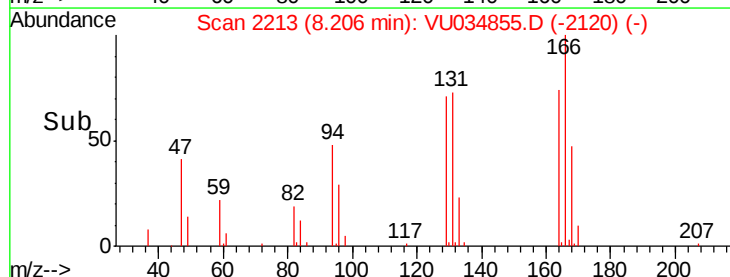
15000

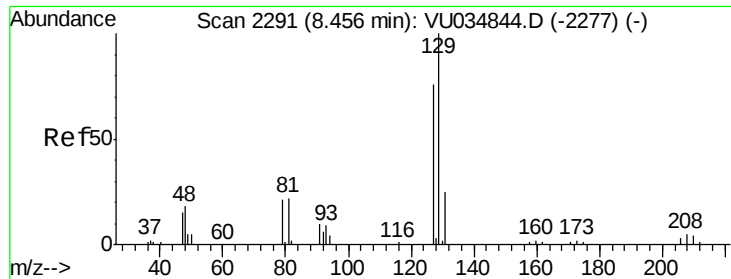
10000

5000

0

Time-->





#49

Dibromochloromethane

Concen: 2.803 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. -0.25 min

Lab File: VU034855.D

Acq: 26 Sep 2019 20:27

Instrument :

MSVOA\_U

ClientSampleId :

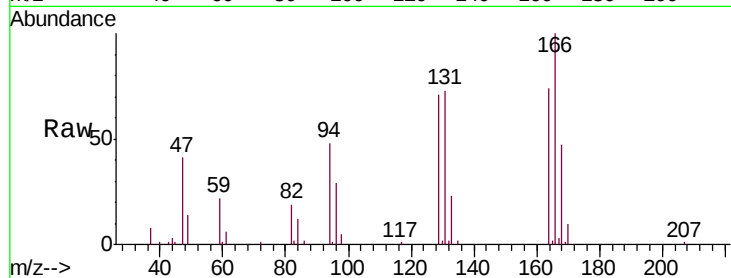
CWK35

Tgt Ion:129 Resp: 15159

Ion Ratio Lower Upper

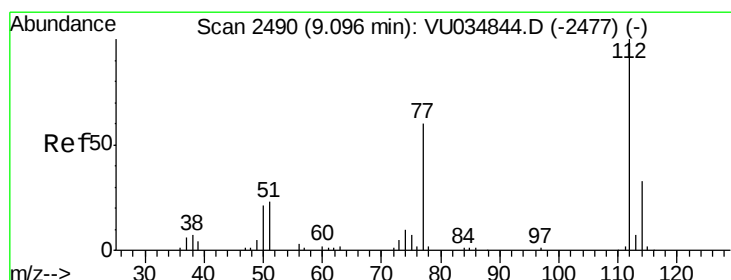
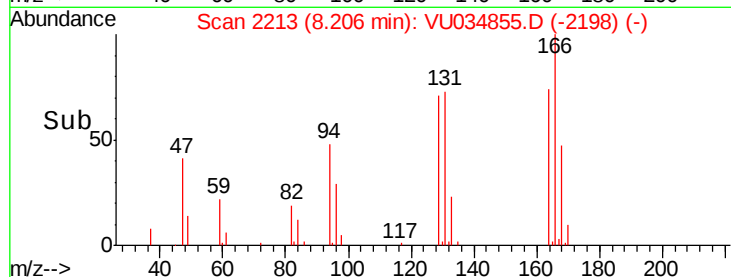
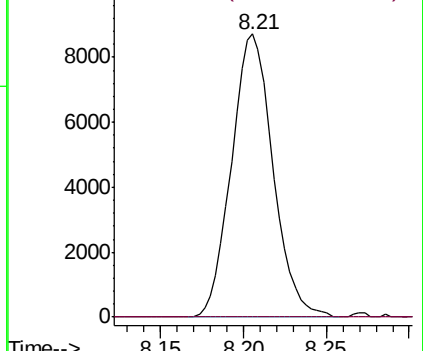
129 100

127 0.0 53.0 98.4#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#51

Chlorobenzene

Concen: 0.857 ug/L

RT: 9.10 min Scan# 2491

Delta R.T. 0.00 min

Lab File: VU034855.D

Acq: 26 Sep 2019 20:27

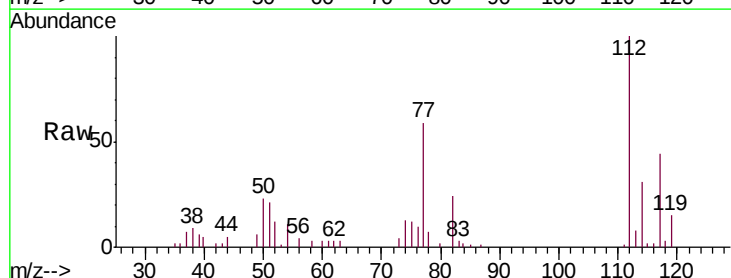
Tgt Ion:112 Resp: 13636

Ion Ratio Lower Upper

112 100

114 31.0 22.5 41.7

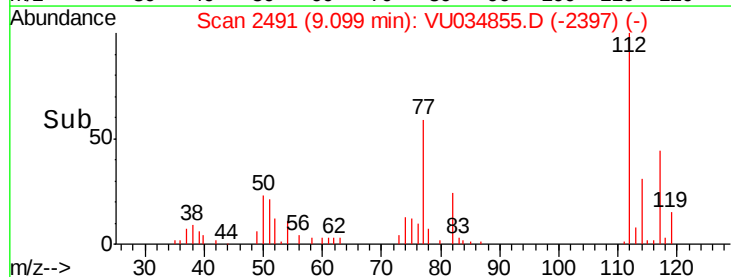
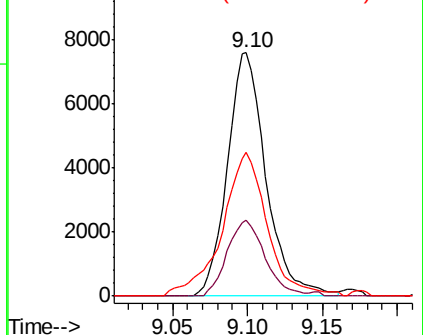
77 59.1 50.3 75.5

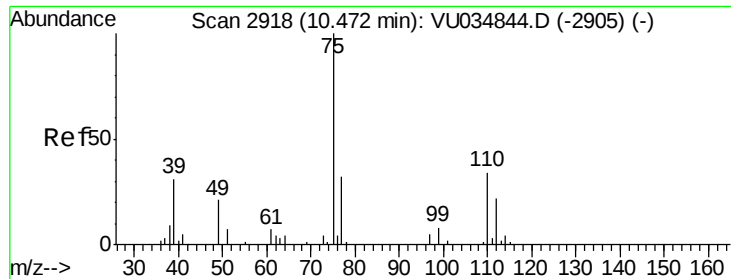


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0

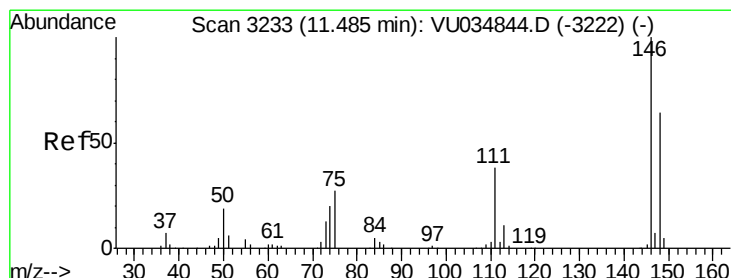
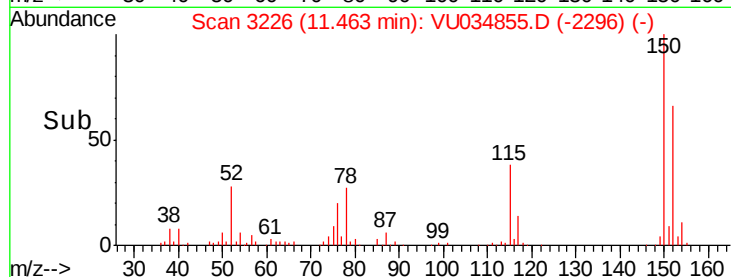
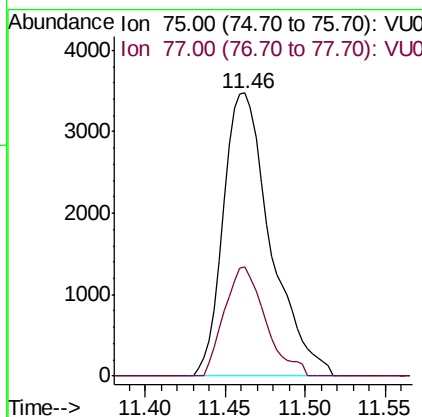
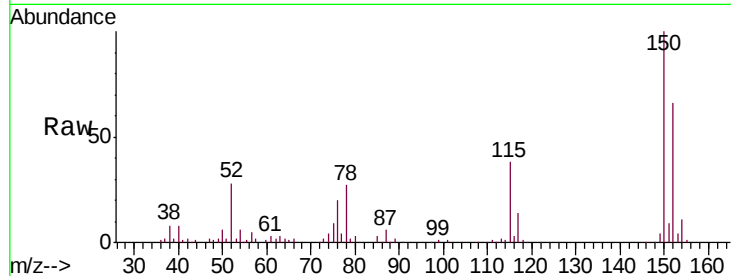




#59  
 1,2,3-Trichloropropane  
 Concen: 1.487 ug/L  
 RT: 11.46 min Scan# 3226  
 Delta R.T. 0.99 min  
 Lab File: VU034855.D  
 Acq: 26 Sep 2019 20:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 CWK35

Tgt Ion: 75 Resp: 7044  
 Ion Ratio Lower Upper  
 75 100  
 77 33.5 26.0 39.0



#63  
 1,4-Dichlorobenzene  
 Concen: 0.189 ug/L  
 RT: 11.49 min Scan# 3234  
 Delta R.T. 0.00 min  
 Lab File: VU034855.D  
 Acq: 26 Sep 2019 20:27

Tgt Ion: 146 Resp: 2345  
 Ion Ratio Lower Upper  
 146 100  
 111 43.9 30.2 56.2  
 148 66.9 45.4 84.4

