

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112018\  
 Data File : VU028299.D  
 Acq On : 20 Nov 2018 23:43  
 Operator : MD/SY  
 Sample : J5986-22  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Nov 21 07:13:14 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Nov 21 07:07:52 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 155046   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 152083   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 67721    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 39228    | 3.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 67.20%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 38712    | 3.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 76.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 60349    | 2.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 52.00%# |
| 20) 2-Butanone-d5              | 4.22   | 46    | 210965   | 54.03    | ug/L | 0.02    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 108.06% |
| 24) Chloroform-d               | 4.65   | 84    | 95738    | 4.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 55702    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.60%  |
| 32) Benzene-d6                 | 5.34   | 84    | 170642   | 3.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 78.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 71752    | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 90.20%  |
| 41) Toluene-d8                 | 7.56   | 98    | 142703   | 3.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 72.80%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 23782    | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 93.60%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 173194   | 56.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 113.74% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 57734    | 5.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 100.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 56527    | 4.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 89.80%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.32 | 50   | 1486     | 0.090  | ug/L   | 88     |
| 5) Vinyl chloride              | 1.40 | 62   | 4285     | 0.272  | ug/L # | 69     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101  | 507      | 0.050  | ug/L # | 27     |
| 12) 1,1-Dichloroethene         | 2.27 | 96   | 747      | 0.078  | ug/L # | 1      |
| 13) Acetone                    | 2.35 | 43   | 62478    | 23.267 | ug/L   | 93     |
| 14) Carbon disulfide           | 2.48 | 76   | 4005     | 0.134  | ug/L   | 100    |
| 15) Methyl Acetate             | 2.55 | 43   | 145456   | 20.437 | ug/L # | 59     |
| 17) Methyl tert-butyl Ether    | 3.01 | 73   | 830338   | 28.959 | ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 2.98 | 96   | 12805    | 1.259  | ug/L   | 97     |
| 19) 1,1-Dichloroethane         | 3.44 | 63   | 3894     | 0.165  | ug/L # | 80     |
| 22) cis-1,2-Dichloroethene     | 4.22 | 96   | 84731    | 7.050  | ug/L   | 93     |
| 33) Benzene                    | 5.39 | 78   | 2869     | 0.057  | ug/L   | 100    |
| 34) Trichloroethene            | 6.18 | 95   | 45037    | 3.666  | ug/L   | 95     |
| 35) Methylcyclohexane          | 6.33 | 83   | 13882    | 0.717  | ug/L # | 16     |
| 37) 1,2-Dichloropropane        | 6.33 | 63   | 7392     | 0.516  | ug/L # | 92     |
| 39) cis-1,3-Dichloropropene    | 7.23 | 75   | 1763     | 0.097  | ug/L # | 70     |
| 40) 4-Methyl-2-pentanone       | 7.47 | 43   | 14567    | 1.423  | ug/L # | 91     |

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MSVOA\_U  
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Quant Time: Nov 21 07:13:14 2018  
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Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Nov 21 07:07:52 2018  
Response via : Initial Calibration

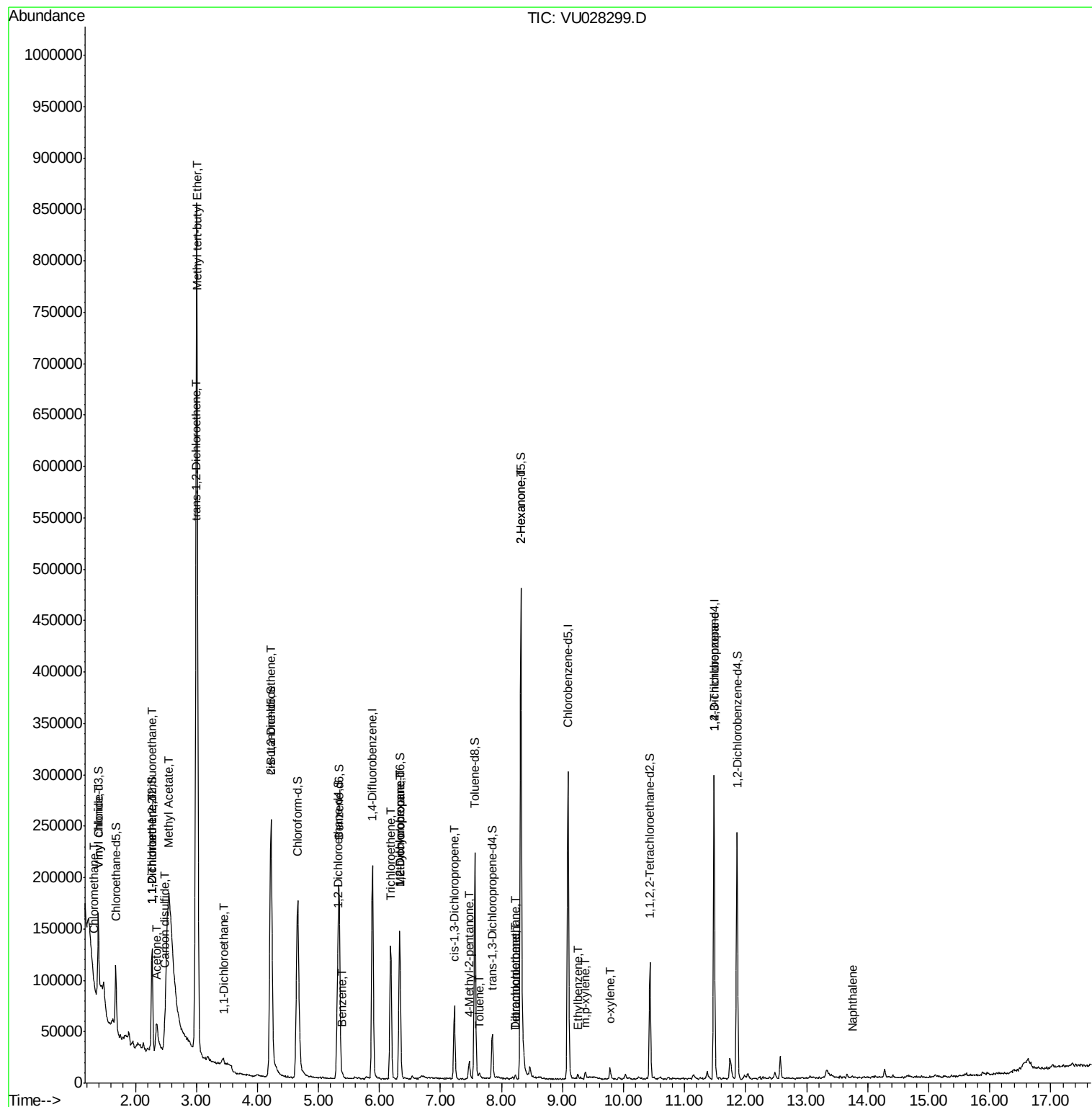
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 42) Toluene                | 7.63  | 91   | 2525     | 0.050 | ug/L   | 82       |
| 47) Tetrachloroethene      | 8.22  | 164  | 759      | 0.089 | ug/L   | 82       |
| 48) 2-Hexanone             | 8.31  | 43   | 22008    | 3.015 | ug/L # | 68       |
| 49) Dibromochloromethane   | 8.22  | 129  | 627      | 0.072 | ug/L # | 10       |
| 52) Ethylbenzene           | 9.24  | 91   | 3126     | 0.057 | ug/L   | 96       |
| 53) m,p-xylene             | 9.37  | 106  | 1534     | 0.081 | ug/L   | 97       |
| 54) o-xylene               | 9.78  | 106  | 2241     | 0.118 | ug/L   | 92       |
| 59) 1,2,3-Trichloropropane | 11.48 | 75   | 10138    | 1.225 | ug/L   | 90       |
| 69) Naphthalene            | 13.74 | 128  | 1182     | 0.050 | ug/L # | 81       |

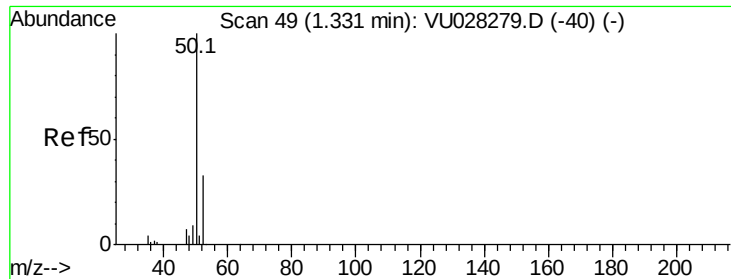
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.090 ug/L

RT: 1.32 min Scan# 47

Delta R.T. -0.01 min

Lab File: VU028299.D

Acq: 20 Nov 2018 23:43

Instrument :

MSVOA\_U

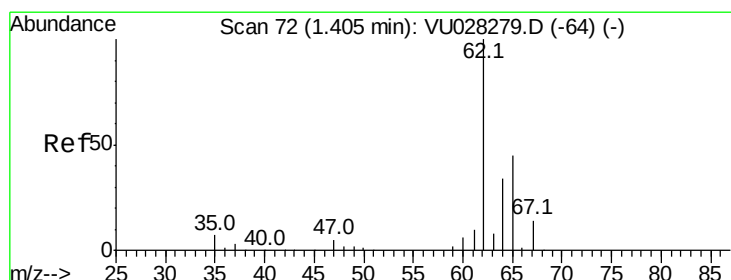
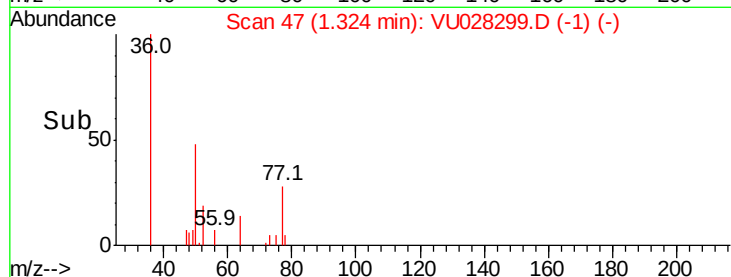
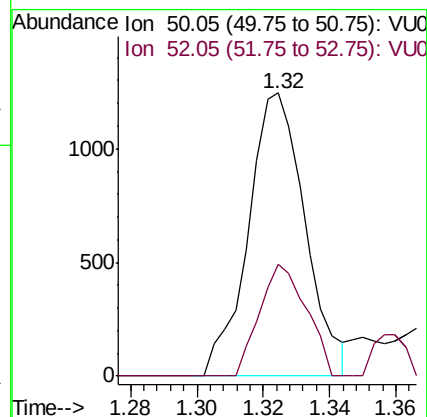
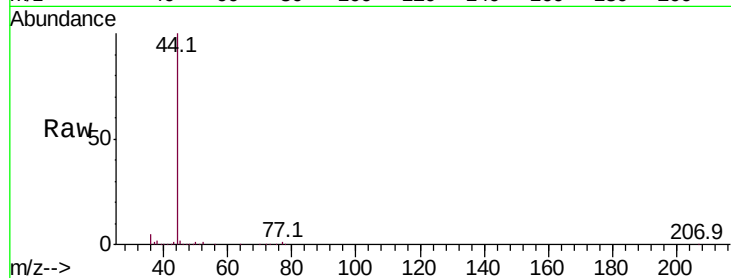
ClientSampleId :

Tot Ion: 50 Resp: 1486

Ion Ratio Lower Upper

50 100

52 39.4 22.8 42.4



#5

Vinyl chloride

Concen: 0.272 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028299.D

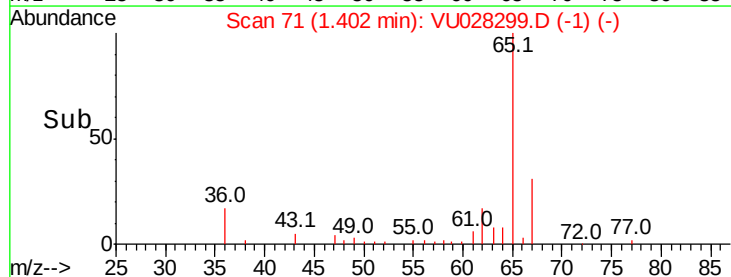
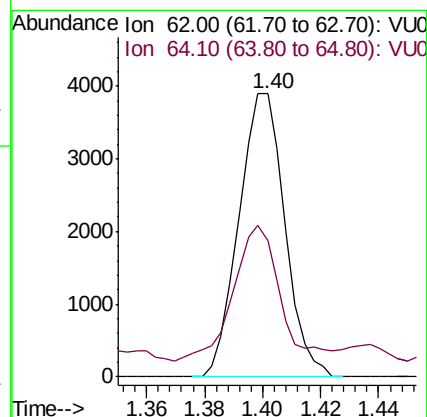
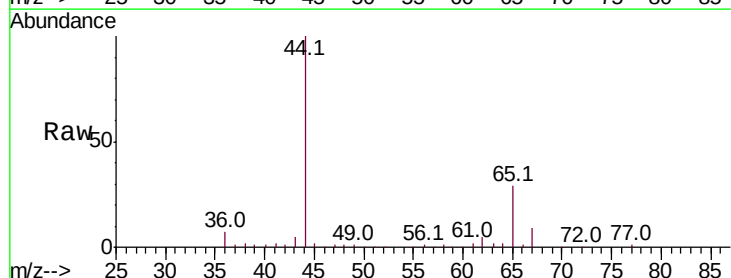
Acq: 20 Nov 2018 23:43

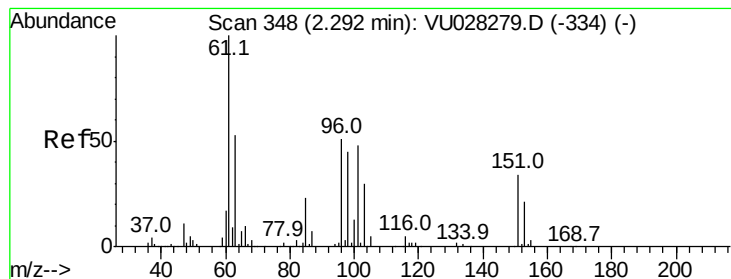
Tgt Ion: 62 Resp: 4285

Ion Ratio Lower Upper

62 100

64 48.1 21.7 40.3#





#10

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

Concen: 0.050 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.02 min

Lab File: VU028299.D

Acq: 20 Nov 2018 23:43

Instrument :

MSVOA\_U

ClientSampled :

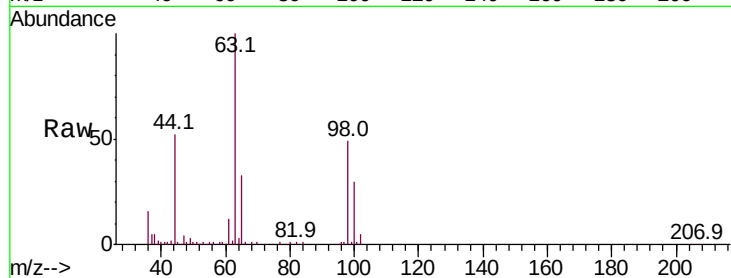
Tot Ion:101 Resp: 507

Ion Ratio Lower Upper

101 100

85 0.0 37.4 56.2#

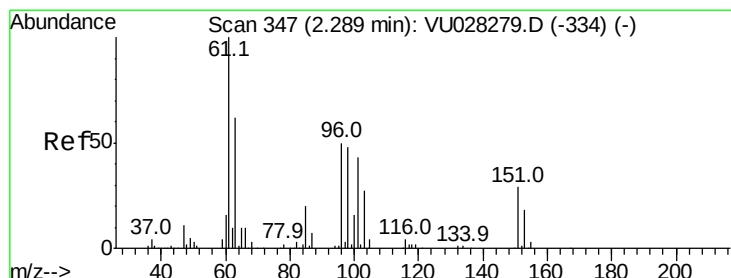
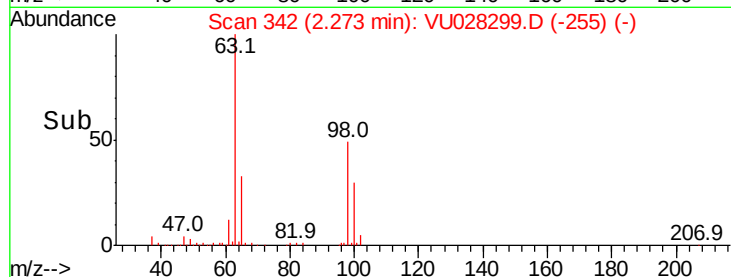
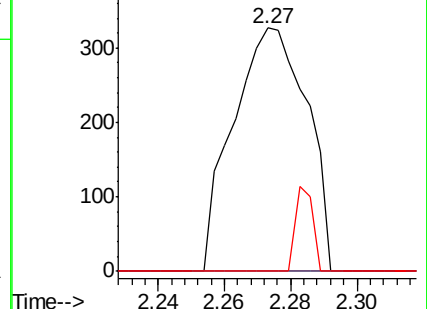
151 8.1 55.0 82.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.078 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.02 min

Lab File: VU028299.D

Acq: 20 Nov 2018 23:43

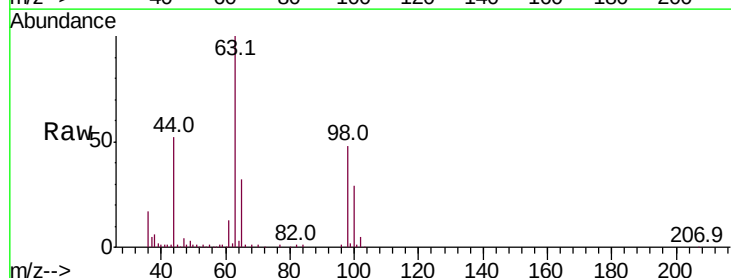
Tgt Ion: 96 Resp: 747

Ion Ratio Lower Upper

96 100

61 1010.8 145.5 270.1#

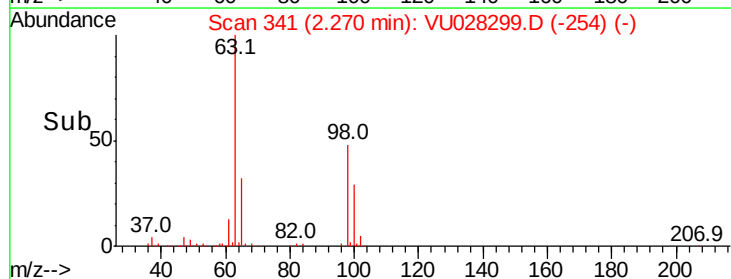
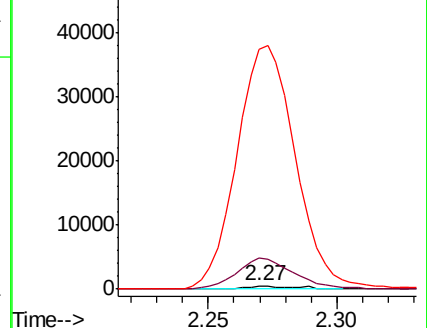
63 7910.4 98.6 183.2#

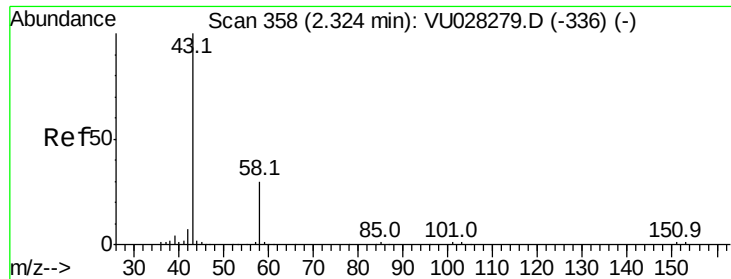


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 23.267 ug/L

RT: 2.35 min Scan# 366

Delta R.T. 0.03 min

Lab File: VU028299.D

Acq: 20 Nov 2018 23:43

Instrument :

MSVOA\_U

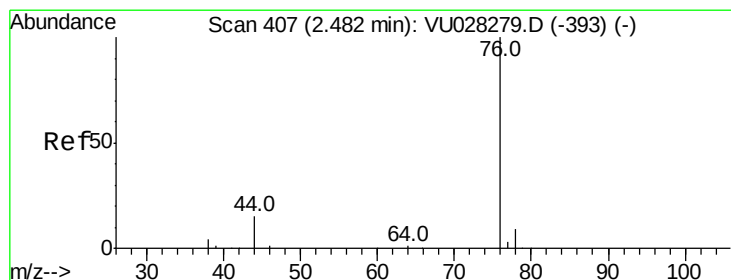
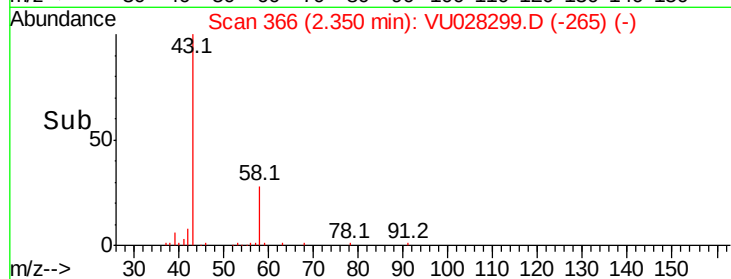
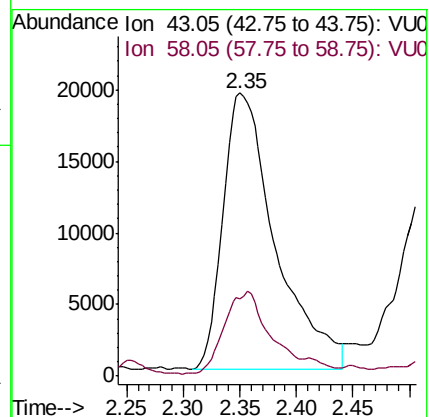
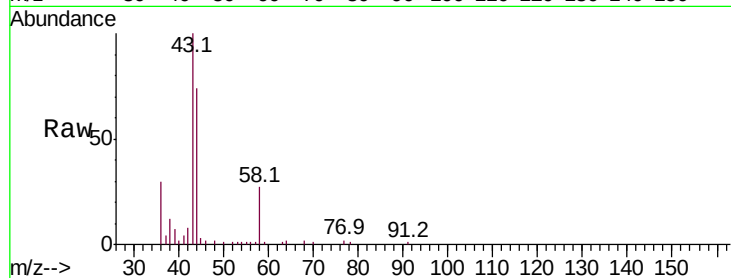
ClientSampleId :

Tot Ion: 43 Resp: 62478

Ion Ratio Lower Upper

43 100

58 25.6 0.0 58.6



#14

Carbon disulfide

Concen: 0.134 ug/L

RT: 2.48 min Scan# 405

Delta R.T. -0.01 min

Lab File: VU028299.D

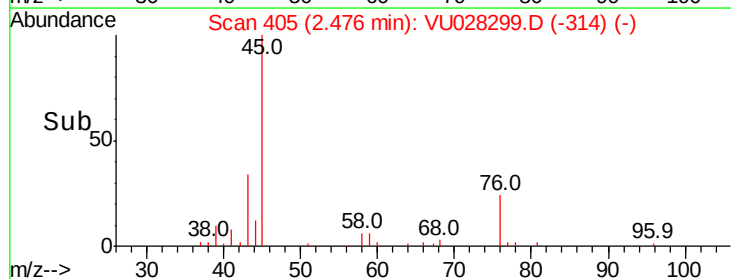
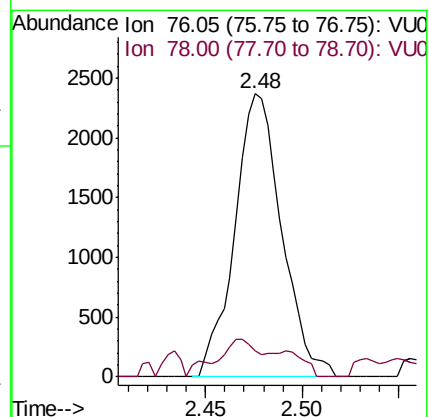
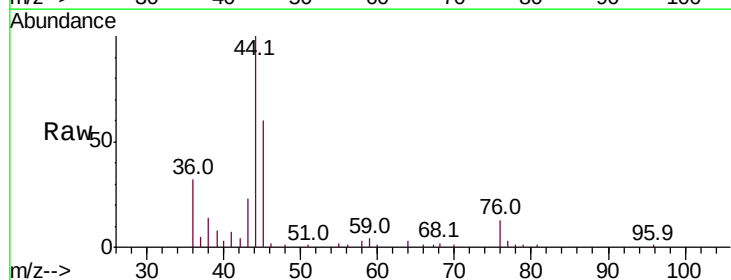
Acq: 20 Nov 2018 23:43

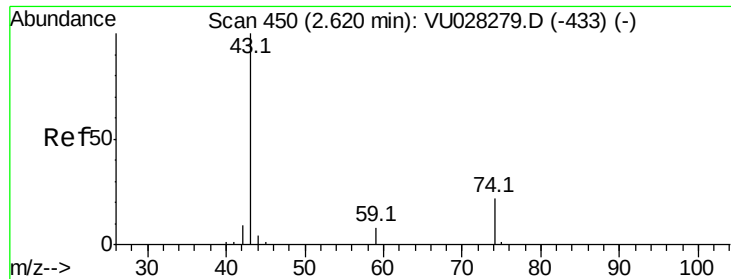
Tgt Ion: 76 Resp: 4005

Ion Ratio Lower Upper

76 100

78 9.4 7.6 11.4

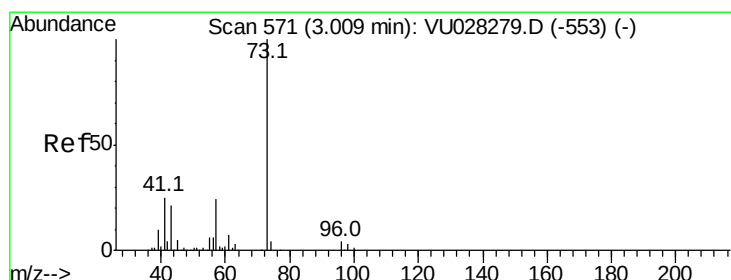
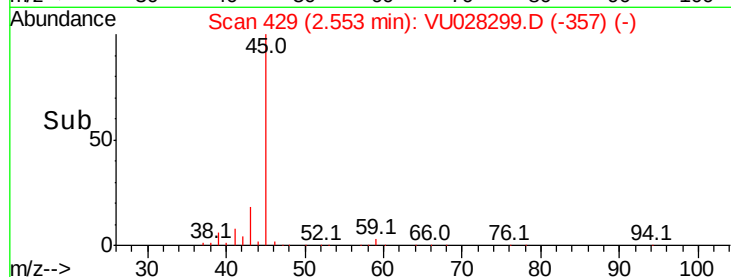
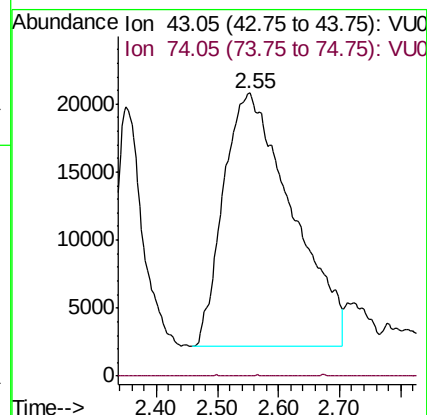
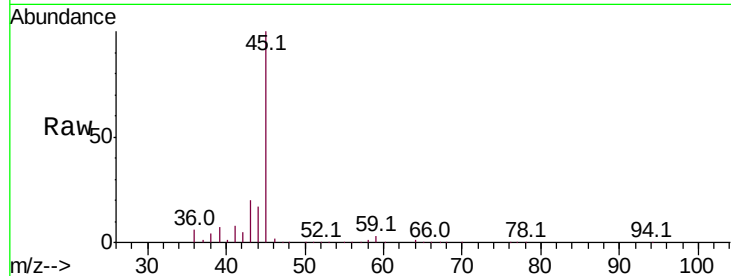




#15  
Methyl Acetate  
Concen: 20.437 ug/L  
RT: 2.55 min Scan# 429  
Delta R.T. -0.07 min  
Lab File: VU028299.D  
Acq: 20 Nov 2018 23:43

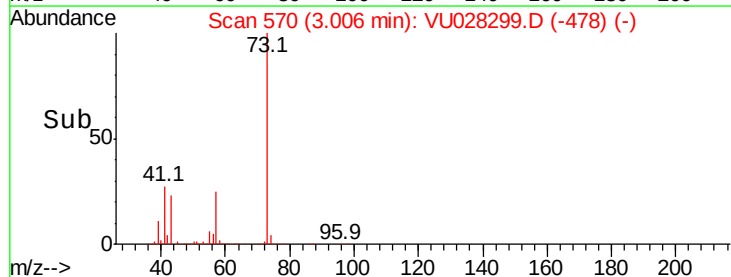
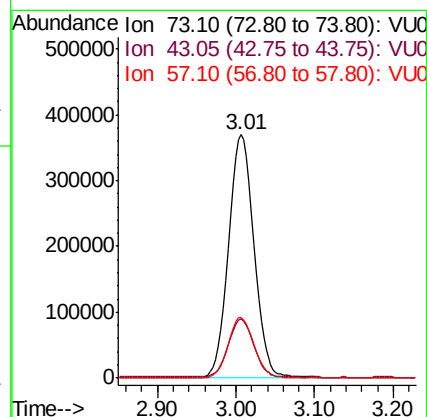
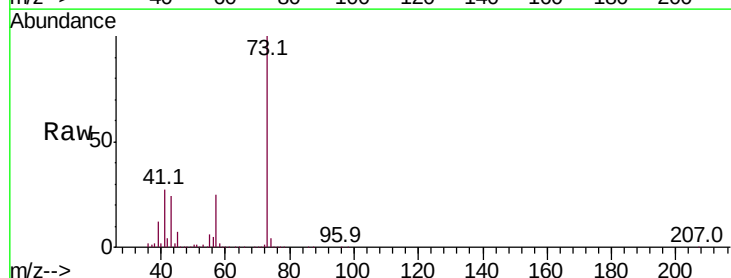
Instrument :  
MSVOA\_U  
ClientSampleId :

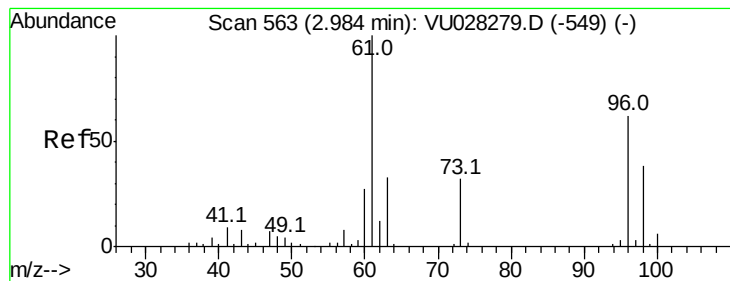
Tot Ion: 43 Resp: 145456  
Ion Ratio Lower Upper  
43 100  
74 0.0 14.7 22.1#



#17  
Methyl tert-butyl Ether  
Concen: 28.959 ug/L  
RT: 3.01 min Scan# 570  
Delta R.T. -0.00 min  
Lab File: VU028299.D  
Acq: 20 Nov 2018 23:43

Tgt Ion: 73 Resp: 830338  
Ion Ratio Lower Upper  
73 100  
43 23.6 18.8 28.2  
57 25.3 19.2 28.8





#18

trans-1,2-Dichloroethene

Concen: 1.259 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028299.D

Acq: 20 Nov 2018 23:43

Instrument :

MSVOA\_U

ClientSampleId :

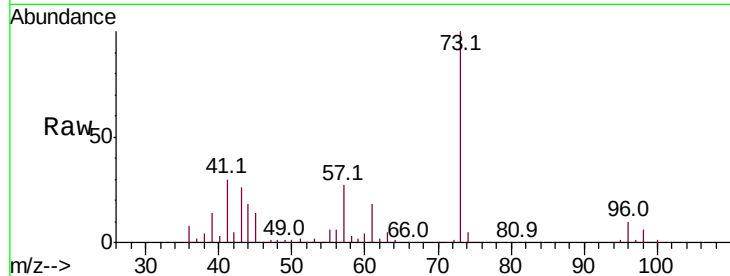
Tot Ion: 96 Resp: 12805

Ion Ratio Lower Upper

96 100

61 169.9 122.2 227.0

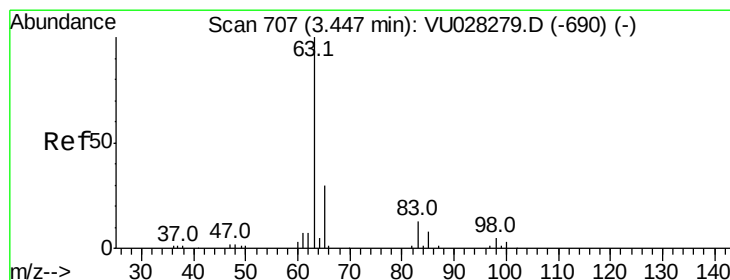
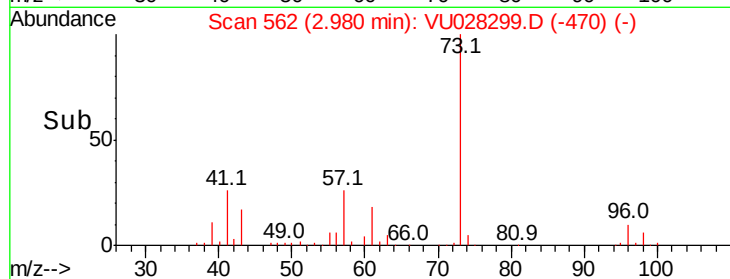
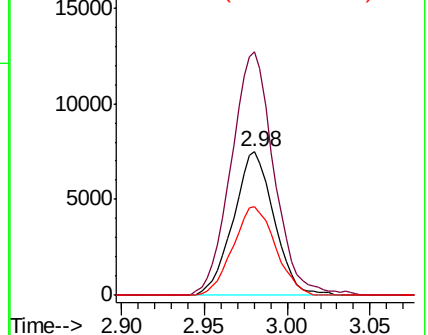
98 61.8 44.9 83.5



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



#19

1,1-Dichloroethane

Concen: 0.165 ug/L

RT: 3.44 min Scan# 705

Delta R.T. -0.01 min

Lab File: VU028299.D

Acq: 20 Nov 2018 23:43

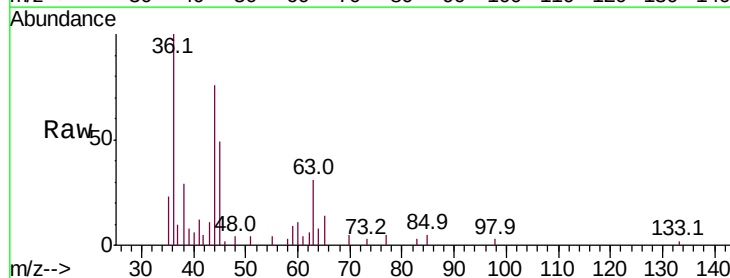
Tgt Ion: 63 Resp: 3894

Ion Ratio Lower Upper

63 100

65 44.7 21.2 39.4#

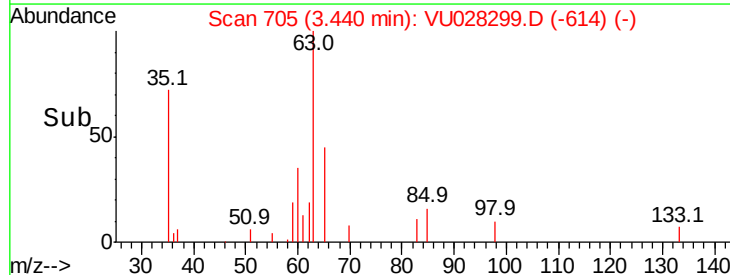
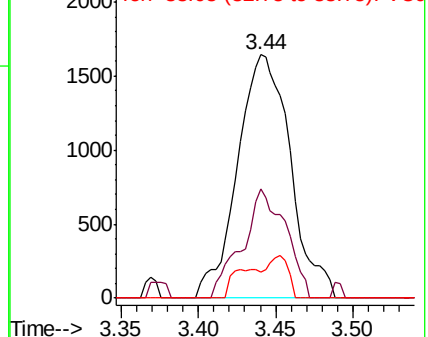
83 10.9 8.8 16.4



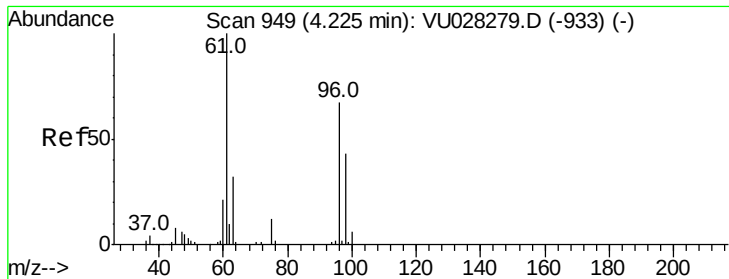
Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0





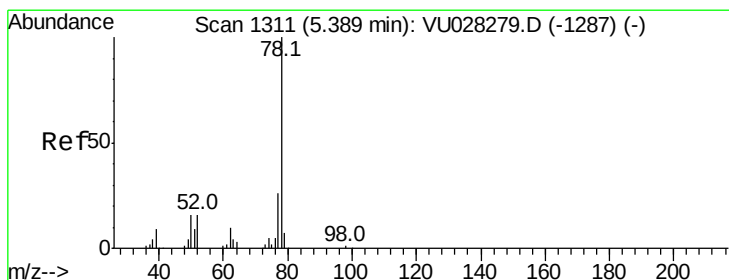
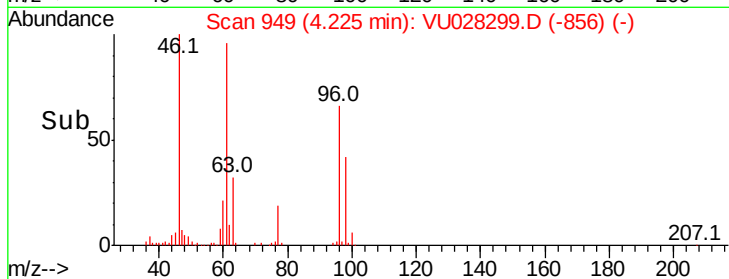
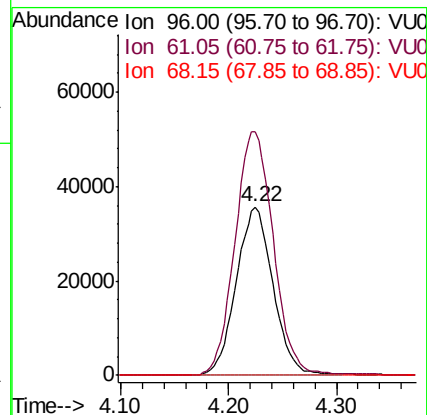
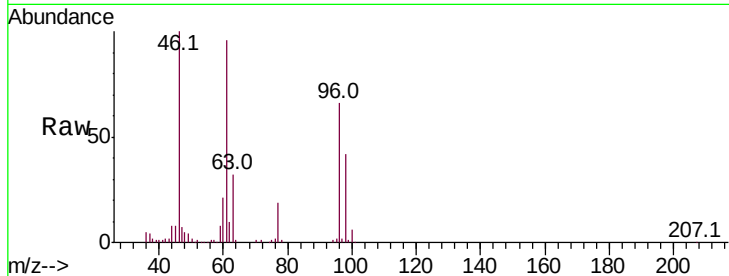


#22

cis-1,2-Dichloroethene  
Concen: 7.050 ug/L  
RT: 4.22 min Scan# 949  
Delta R.T. -0.00 min  
Lab File: VU028299.D  
Acq: 20 Nov 2018 23:43

Instrument :  
MSVOA\_U  
ClientSampleId :

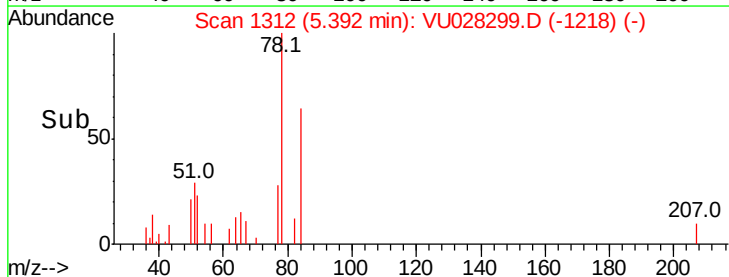
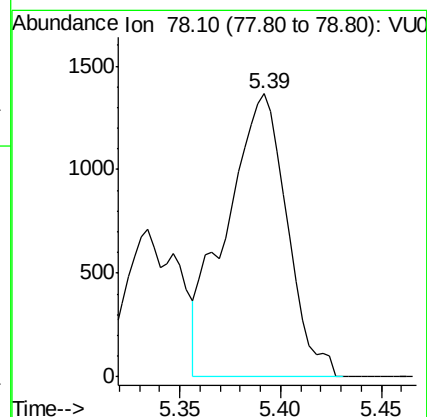
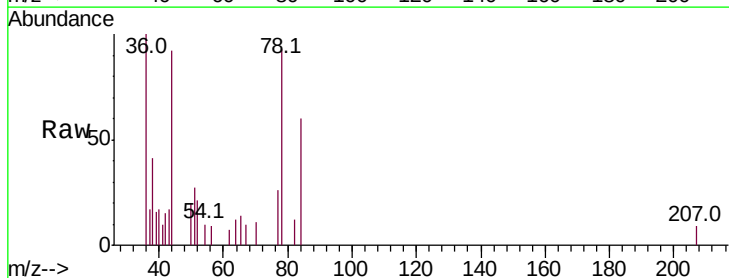
Tot Ion: 96 Resp: 84731  
Ion Ratio Lower Upper  
96 100  
61 144.8 108.0 200.6  
68 0.0 0.0 0.0

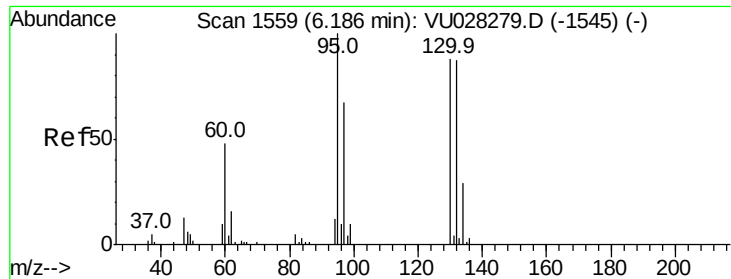


#33

Benzene  
Concen: 0.057 ug/L  
RT: 5.39 min Scan# 1312  
Delta R.T. 0.00 min  
Lab File: VU028299.D  
Acq: 20 Nov 2018 23:43

Tgt Ion: 78 Resp: 2869





#34

Trichloroethene

Concen: 3.666 ug/L

RT: 6.18 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VU028299.D

Acq: 20 Nov 2018 23:43

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 95 Resp: 45037

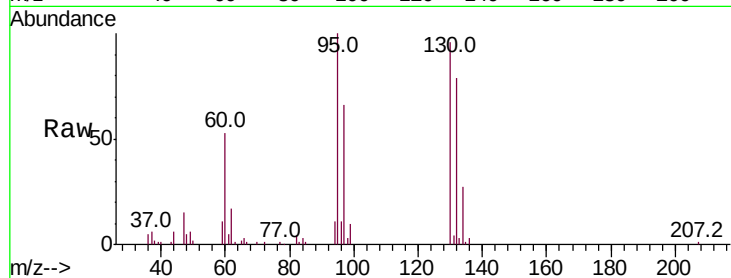
Ion Ratio Lower Upper

95 100

97 66.4 46.5 86.3

132 79.1 58.9 109.3

130 96.3 61.3 113.9

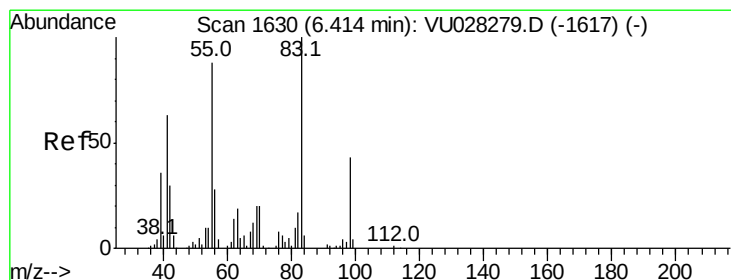
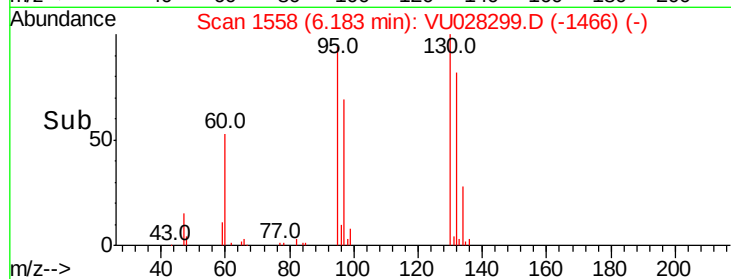
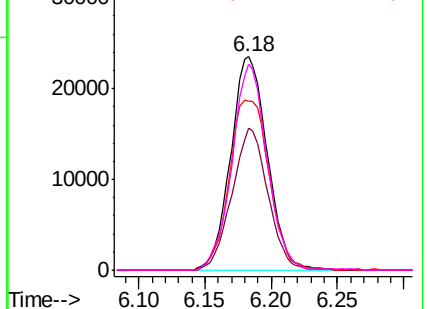


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.717 ug/L

RT: 6.33 min Scan# 1604

Delta R.T. -0.08 min

Lab File: VU028299.D

Acq: 20 Nov 2018 23:43

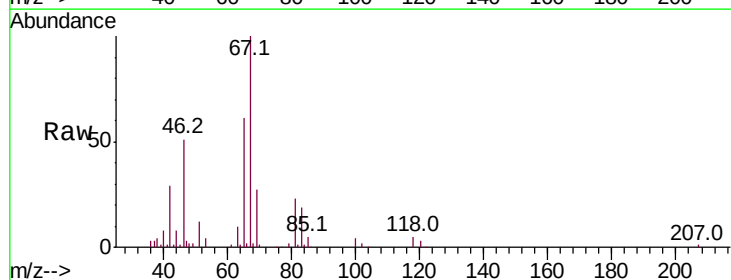
Tgt Ion: 83 Resp: 13882

Ion Ratio Lower Upper

83 100

55 2.8 73.2 109.8#

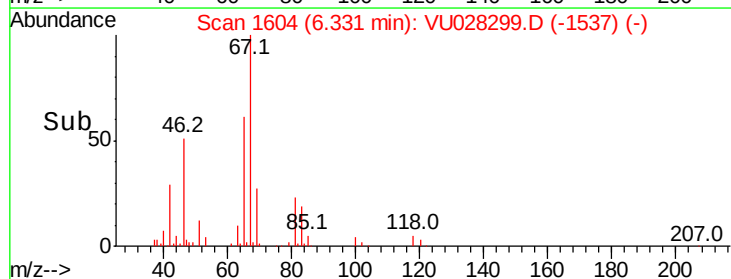
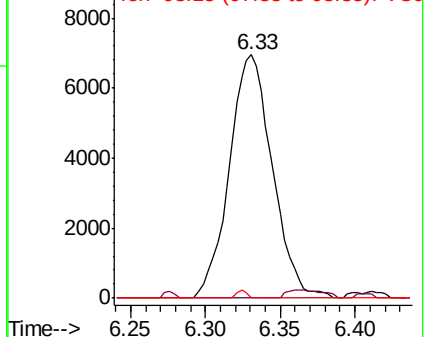
98 0.8 33.4 50.2#

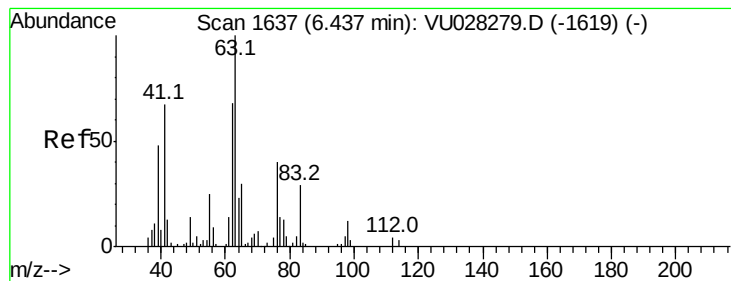


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.516 ug/L

RT: 6.33 min Scan# 1604

Delta R.T. -0.11 min

Lab File: VU028299.D

Acq: 20 Nov 2018 23:43

Instrument :

MSVOA\_U

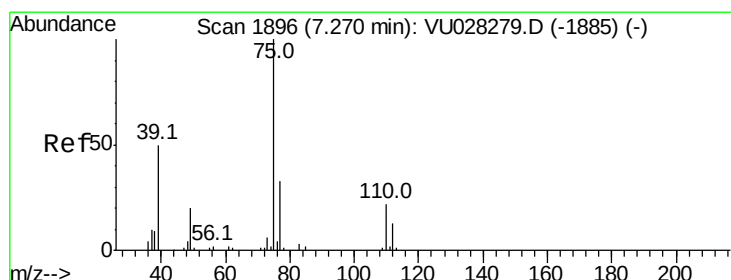
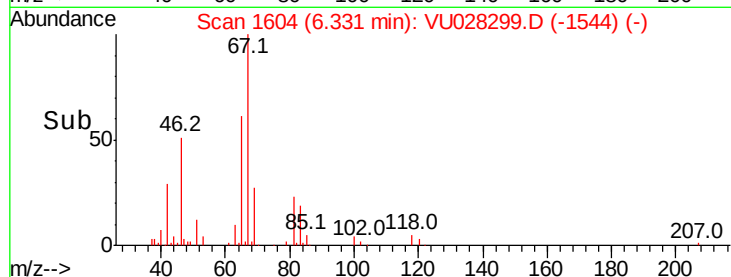
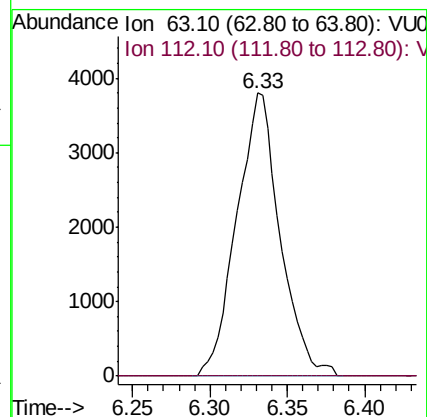
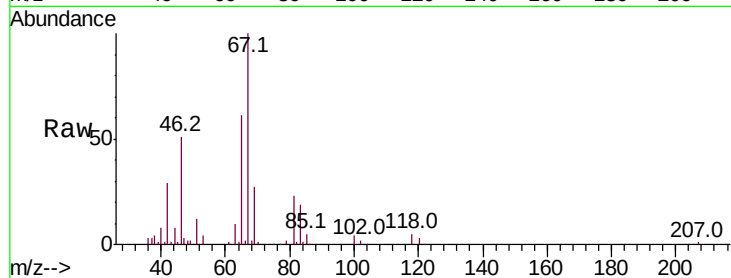
ClientSampleId :

Tot Ion: 63 Resp: 7392

Ion Ratio Lower Upper

63 100

112 0.0 2.2 3.2#



#39

cis-1,3-Dichloropropene

Concen: 0.097 ug/L

RT: 7.23 min Scan# 1883

Delta R.T. -0.04 min

Lab File: VU028299.D

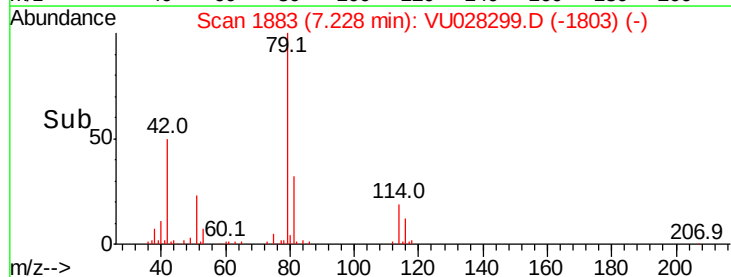
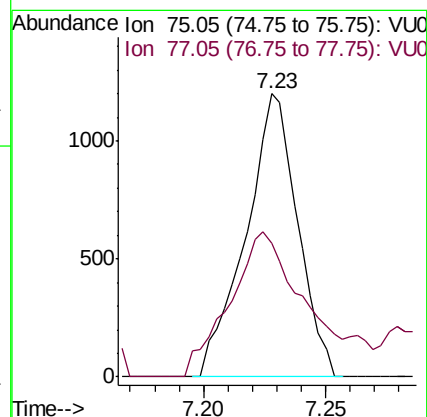
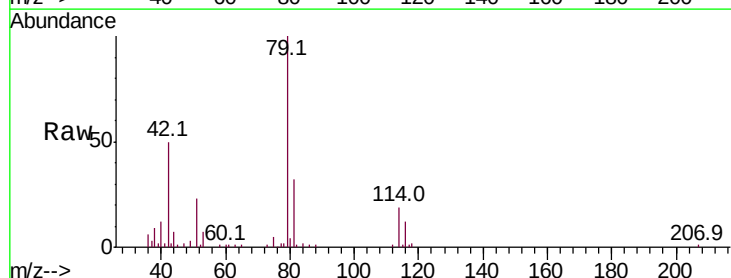
Acq: 20 Nov 2018 23:43

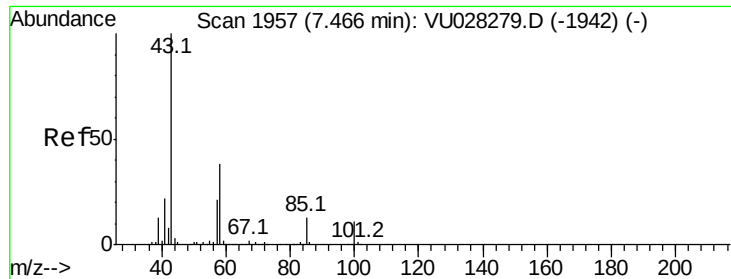
Tgt Ion: 75 Resp: 1763

Ion Ratio Lower Upper

75 100

77 47.4 21.7 40.3#

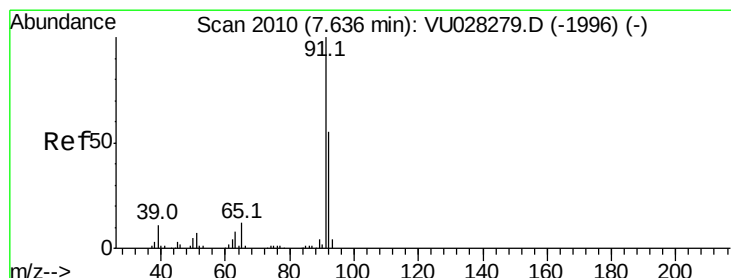
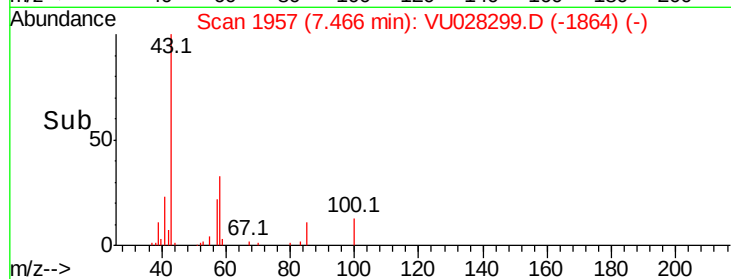
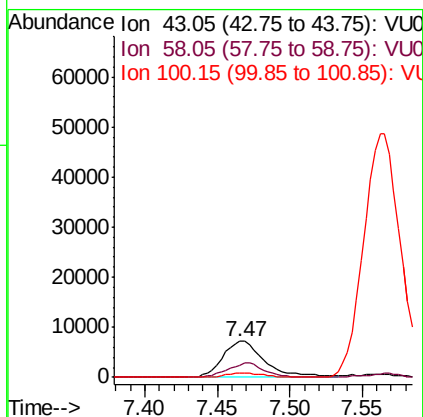
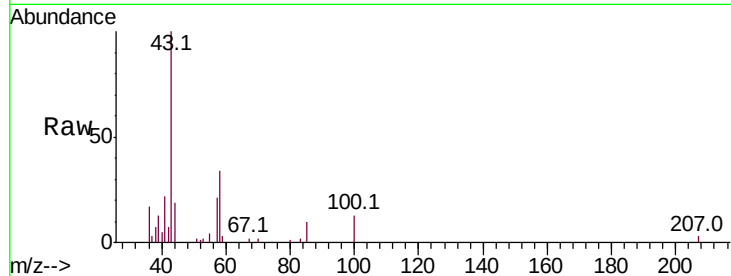




#40  
4-Methyl-2-pentanone  
Concen: 1.423 ug/L  
RT: 7.47 min Scan# 1957  
Delta R.T. -0.00 min  
Lab File: VU028299.D  
Acq: 20 Nov 2018 23:43

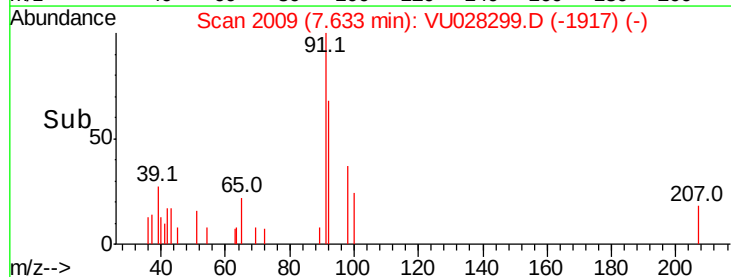
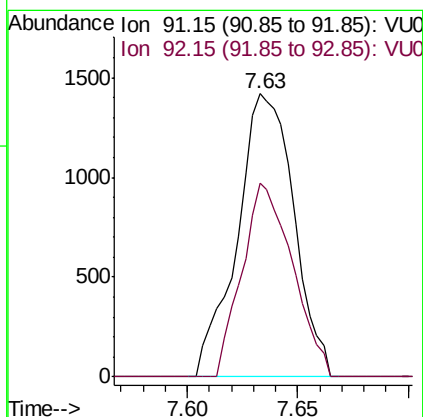
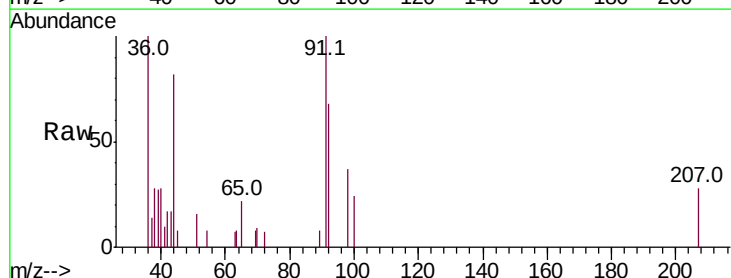
Instrument :  
MSVOA\_U  
ClientSampleId :

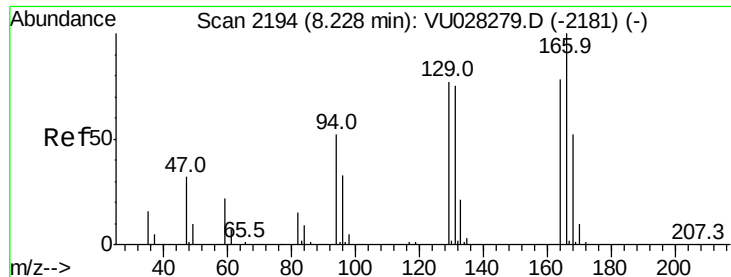
Tot Ion: 43 Resp: 14567  
Ion Ratio Lower Upper  
43 100  
58 33.9 28.8 43.2  
100 0.0 8.0 12.0#



#42  
Toluene  
Concen: 0.050 ug/L  
RT: 7.63 min Scan# 2009  
Delta R.T. -0.00 min  
Lab File: VU028299.D  
Acq: 20 Nov 2018 23:43

Tgt Ion: 91 Resp: 2525  
Ion Ratio Lower Upper  
91 100  
92 68.5 39.0 72.4

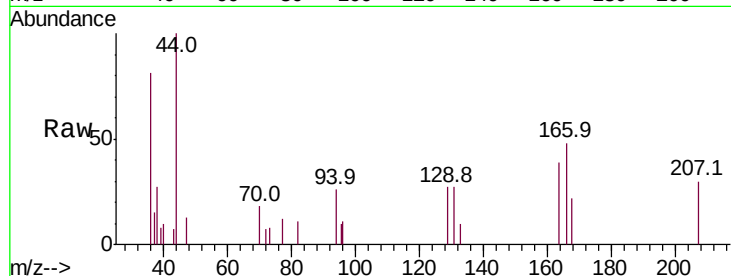




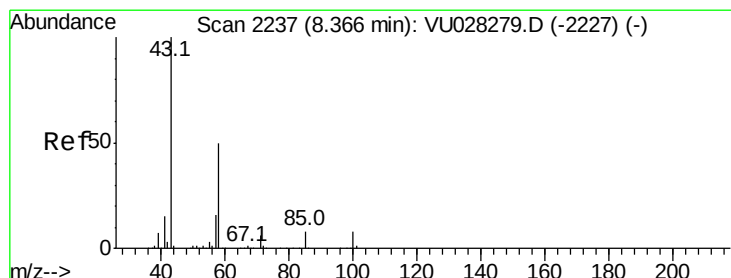
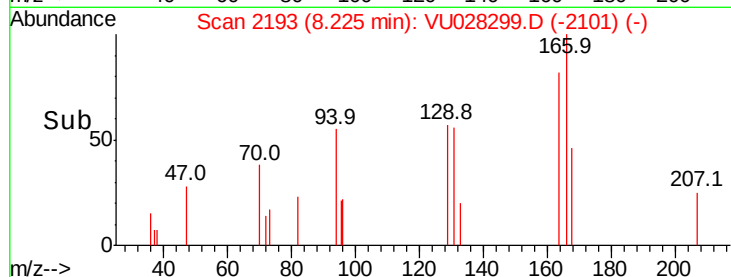
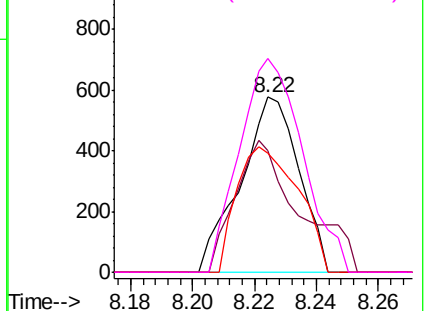
#47  
Tetrachloroethene  
Concen: 0.089 ug/L  
RT: 8.22 min Scan# 2193  
Delta R.T. -0.00 min  
Lab File: VU028299.D  
Acq: 20 Nov 2018 23:43

Instrument :  
MSVOA\_U  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 164   | Resp: | 759   |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 69.7  | 67.6  | 125.6 |
| 131      | 68.3  | 66.3  | 123.1 |
| 166      | 121.8 | 89.2  | 165.6 |

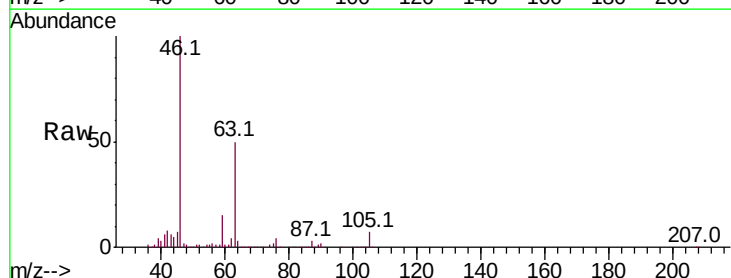


Abundance Ion 163.90 (163.60 to 164.60): V  
Ion 128.95 (128.65 to 129.65): V  
Ion 130.95 (130.65 to 131.65): V  
Ion 165.90 (165.60 to 166.60): V

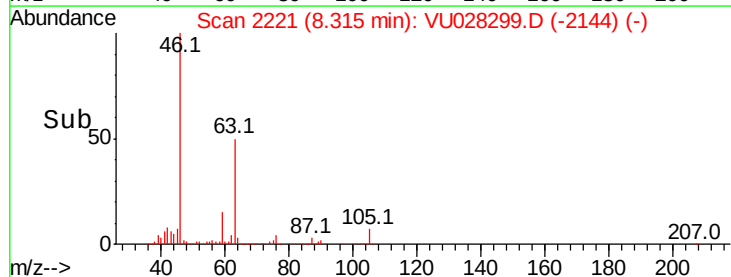
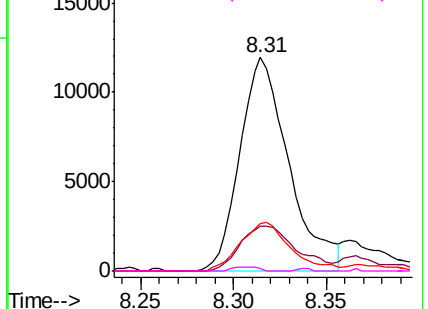


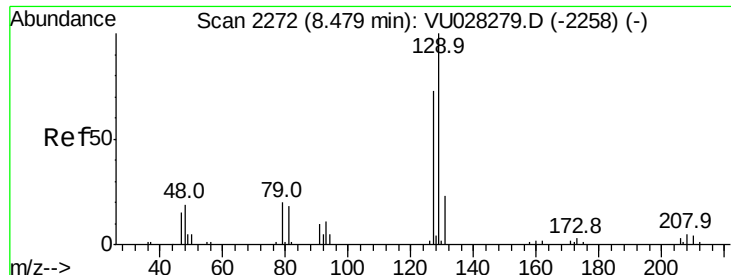
#48  
2-Hexanone  
Concen: 3.015 ug/L  
RT: 8.31 min Scan# 2221  
Delta R.T. -0.05 min  
Lab File: VU028299.D  
Acq: 20 Nov 2018 23:43

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 22008 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 23.9  | 41.1  | 61.7# |
| 57       | 23.4  | 13.8  | 20.8# |
| 100      | 0.9   | 6.5   | 9.7#  |



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





#49

Dibromochloromethane

Concen: 0.072 ug/L

RT: 8.22 min Scan# 2192

Delta R.T. -0.26 min

Lab File: VU028299.D

Acq: 20 Nov 2018 23:43

Instrument :

MSVOA\_U

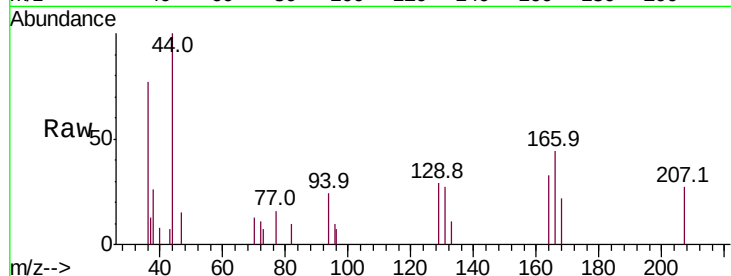
ClientSampled :

Tot Ion:129 Resp: 627

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.22

400

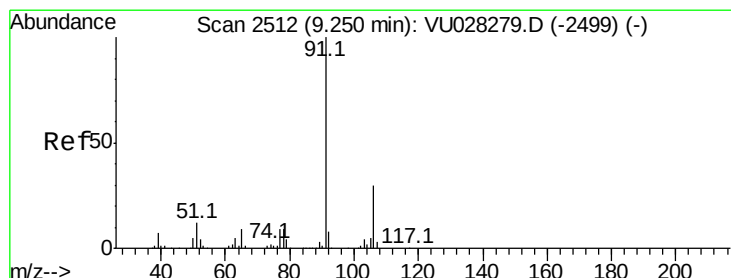
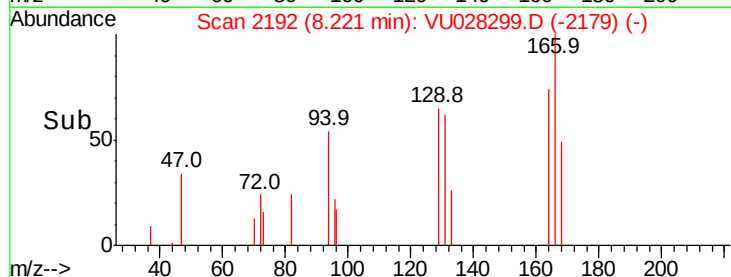
300

200

100

0

Time-->



#52

Ethylbenzene

Concen: 0.057 ug/L

RT: 9.24 min Scan# 2510

Delta R.T. -0.01 min

Lab File: VU028299.D

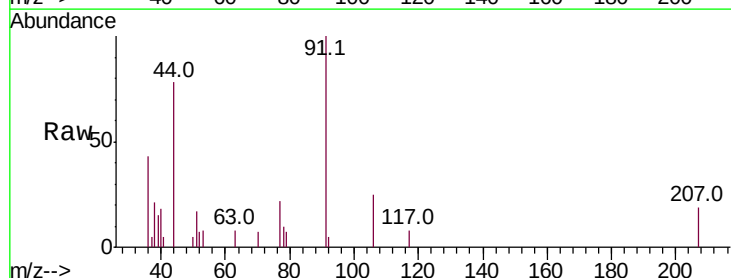
Acq: 20 Nov 2018 23:43

Tgt Ion: 91 Resp: 3126

Ion Ratio Lower Upper

91 100

106 25.3 19.3 35.9



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 106.15 (105.85 to 106.85): V

9.24

2000

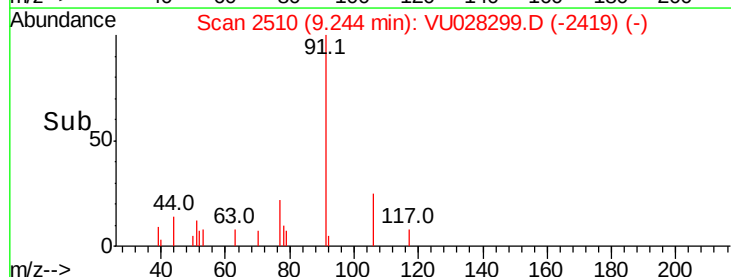
1500

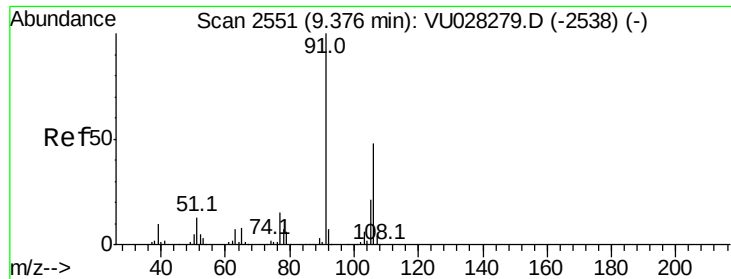
1000

500

0

Time-->





#53

m,p-xylene

Concen: 0.081 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VU028299.D

Acq: 20 Nov 2018 23:43

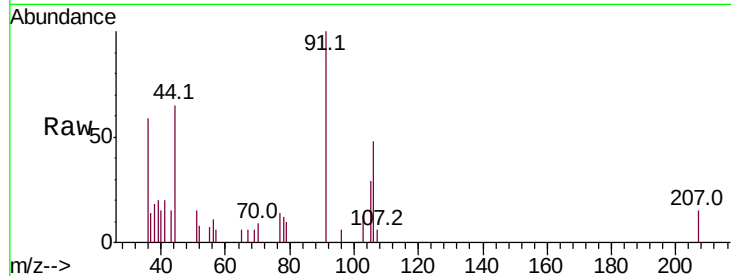
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion:106 Resp: 1534

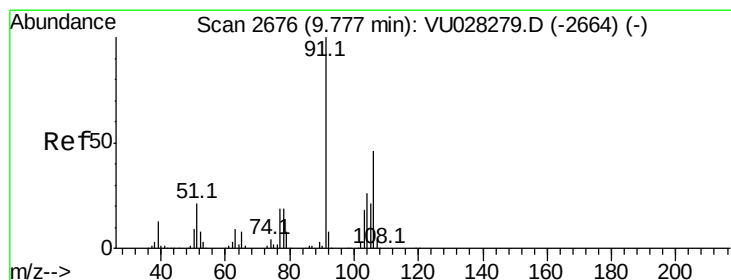
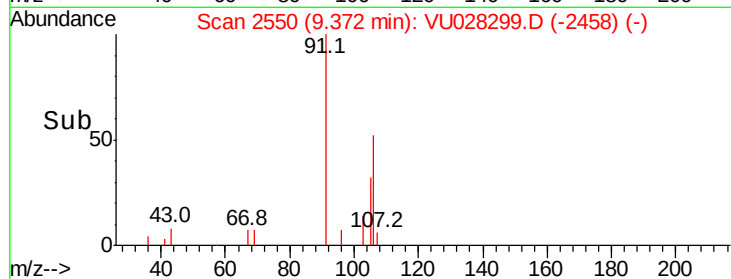
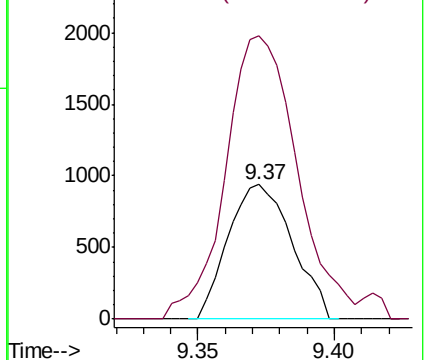
Ion Ratio Lower Upper

106 100

91 210.4 150.6 279.6



Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0



#54

o-xylene

Concen: 0.118 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VU028299.D

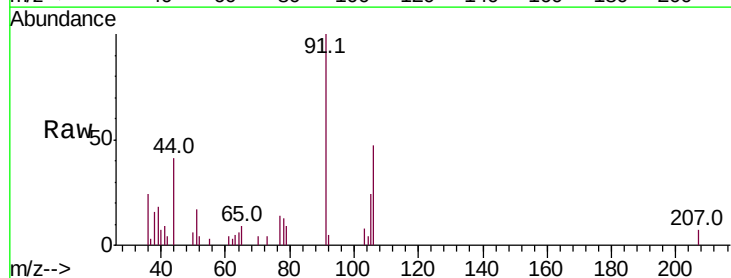
Acq: 20 Nov 2018 23:43

Tgt Ion:106 Resp: 2241

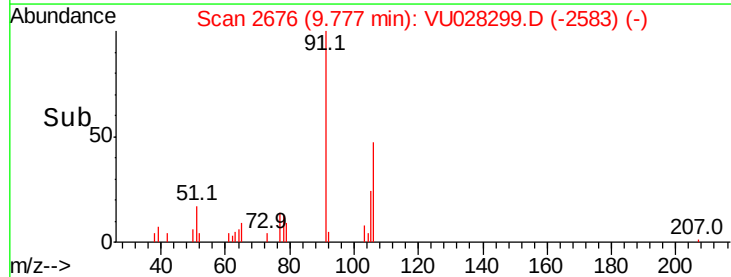
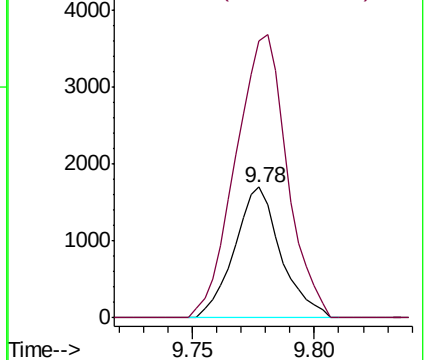
Ion Ratio Lower Upper

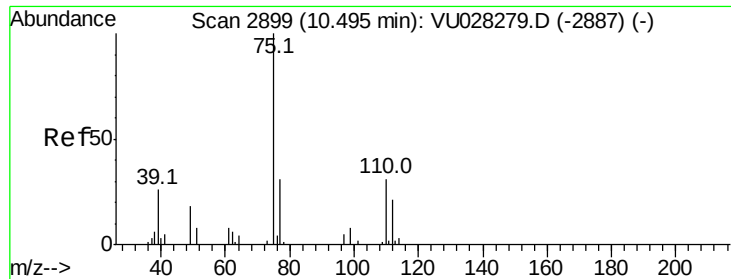
106 100

91 211.8 157.5 292.5



Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0





#59

1,2,3-Trichloropropane

Concen: 1.225 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.99 min

Lab File: VU028299.D

Acq: 20 Nov 2018 23:43

Instrument :

MSVOA\_U

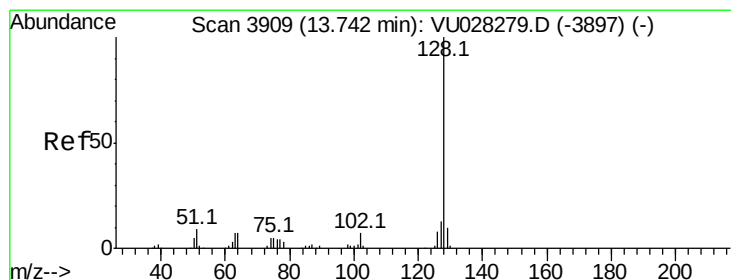
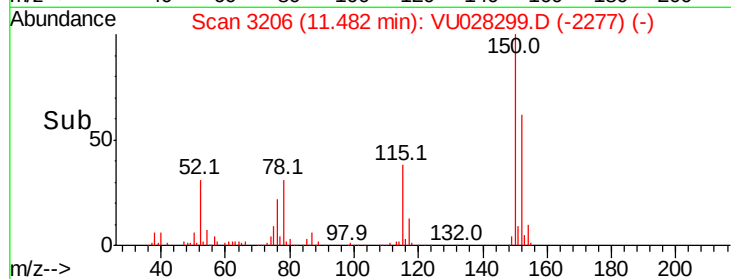
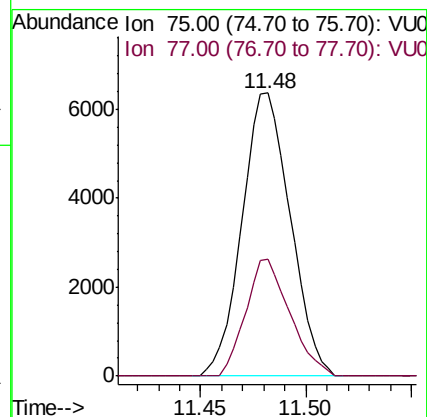
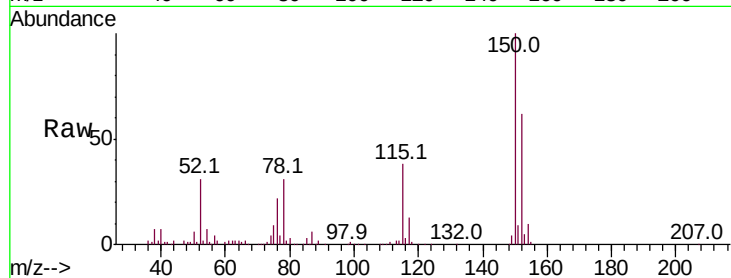
ClientSampleId :

Tot Ion: 75 Resp: 10138

Ion Ratio Lower Upper

75 100

77 37.6 25.7 38.5



#69

Naphthalene

Concen: 0.050 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU028299.D

Acq: 20 Nov 2018 23:43

Tgt Ion: 128 Resp: 1182

Ion Ratio Lower Upper

128 100

129 6.3 8.6 12.8#

127 3.6 10.7 16.1#

