

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102320\  
 Data File : VX019098.D  
 Acq On : 24 Oct 2020 01:52  
 Operator : JC/SP  
 Sample : L4417-16DL 10X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-5DL

Quant Time: Oct 26 06:06:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102120W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 22 17:51:42 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 273785   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 475315   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 448914   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 231973   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 166241   | 50.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.38% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 144225   | 47.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.86%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 584575   | 50.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.80% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 211552   | 51.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.58% |          |

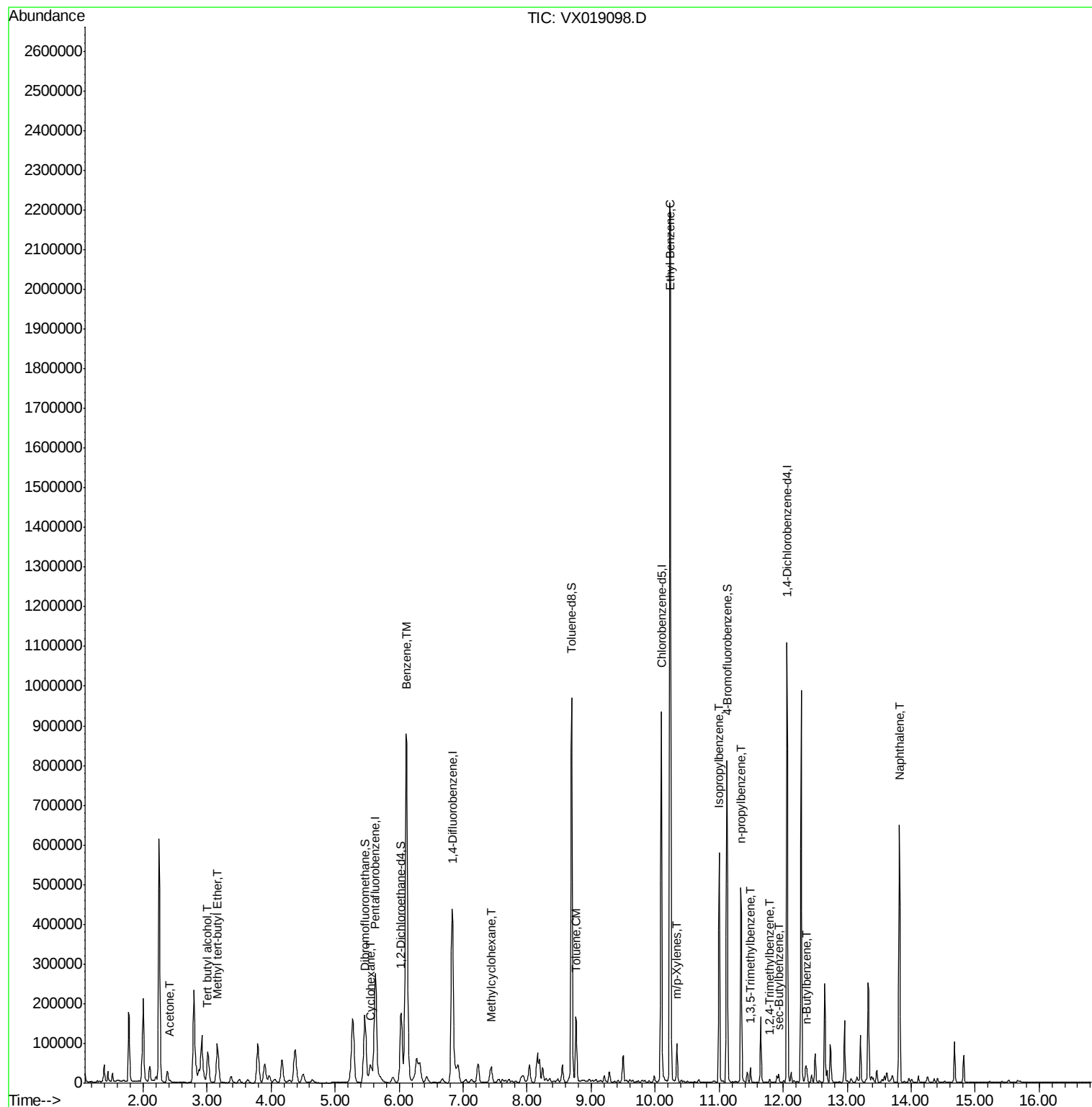
| Target Compounds            | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-----------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol      | 3.01  | 59   | 105700   | 159.137 | ug/l   | 99     |
| 16) Acetone                 | 2.42  | 43   | 4753     | 4.255   | ug/l   | 93     |
| 19) Methyl tert-butyl Ether | 3.17  | 73   | 97804    | 11.587  | ug/l # | 72     |
| 31) Cyclohexane             | 5.55  | 56   | 30164    | 7.854   | ug/l # | 95     |
| 39) Methylcyclohexane       | 7.44  | 83   | 18221    | 3.813   | ug/l   | 98     |
| 40) Benzene                 | 6.11  | 78   | 1117609  | 88.975  | ug/l   | 100    |
| 52) Toluene                 | 8.76  | 92   | 61938    | 7.466   | ug/l   | 99     |
| 67) Ethyl Benzene           | 10.23 | 91   | 1354928  | 83.476  | ug/l   | 100    |
| 68) m/p-Xylenes             | 10.34 | 106  | 23698    | 3.811   | ug/l   | 100    |
| 73) Isopropylbenzene        | 11.00 | 105  | 302739   | 18.142  | ug/l   | 100    |
| 78) n-propylbenzene         | 11.34 | 91   | 307729   | 16.274  | ug/l   | 99     |
| 80) 1,3,5-Trimethylbenzene  | 11.49 | 105  | 16369    | 1.188   | ug/l   | 99     |
| 84) 1,2,4-Trimethylbenzene  | 11.79 | 105  | 3153     | 0.228   | ug/l   | 100    |
| 85) sec-Butylbenzene        | 11.93 | 105  | 11374    | 0.692   | ug/l   | 98     |
| 89) n-Butylbenzene          | 12.37 | 91   | 16630    | 1.210   | ug/l # | 76     |
| 95) Naphthalene             | 13.82 | 128  | 391274   | 23.581  | ug/l   | 99     |

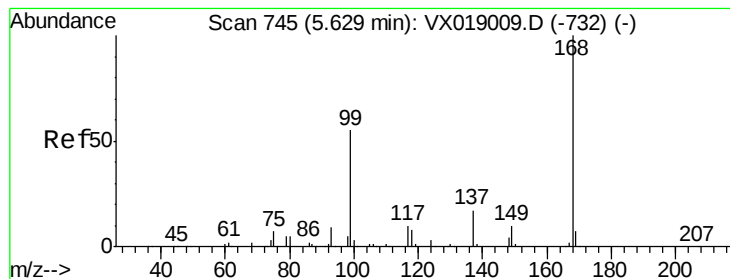
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX102320\  
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ALS Vial : 36 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-5DL

Quant Time: Oct 26 06:06:30 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X102120W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 22 17:51:42 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX019098.D

Acq: 24 Oct 2020 01:52

Instrument :

MSVOA\_X

ClientSampleId :

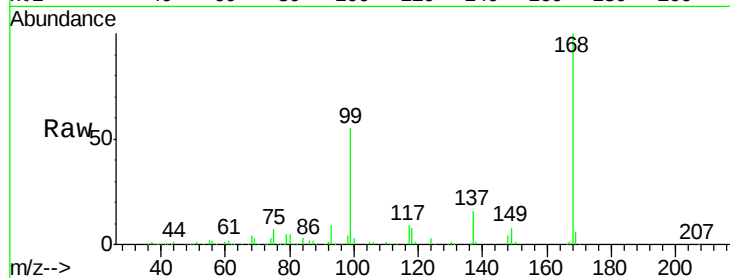
MW-5DL

Tot Ion:168 Resp: 273785

Ion Ratio Lower Upper

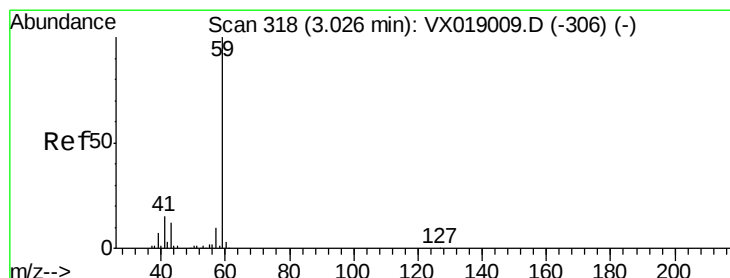
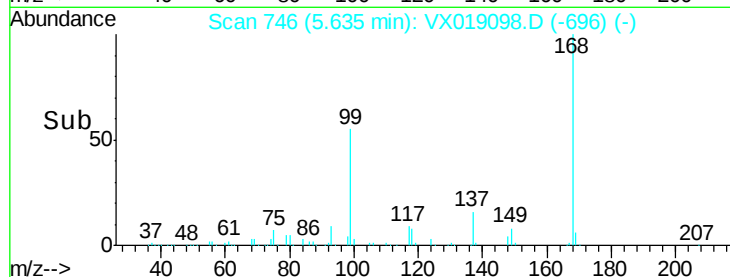
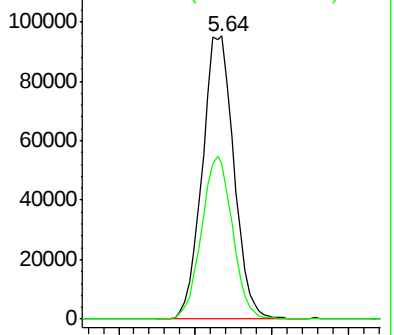
168 100

99 55.0 44.2 66.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 159.137 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.02 min

Lab File: VX019098.D

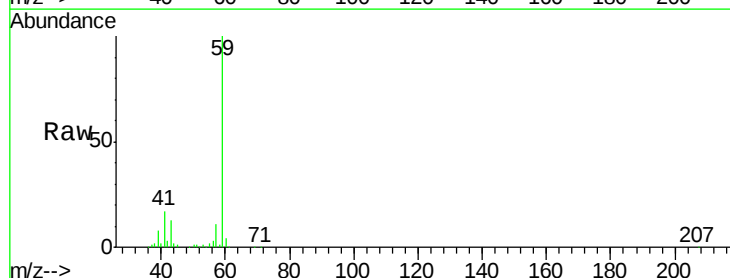
Acq: 24 Oct 2020 01:52

Tgt Ion: 59 Resp: 105700

Ion Ratio Lower Upper

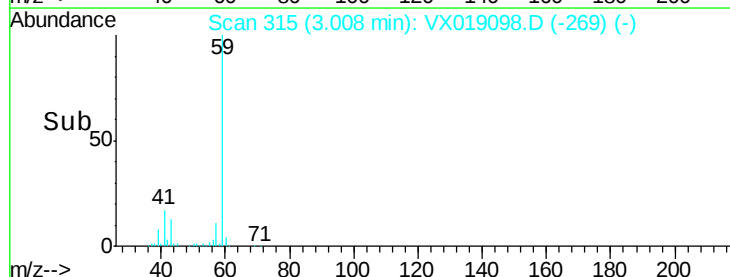
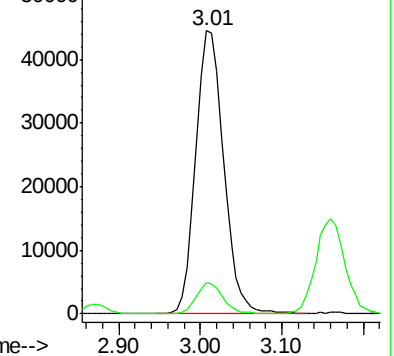
59 100

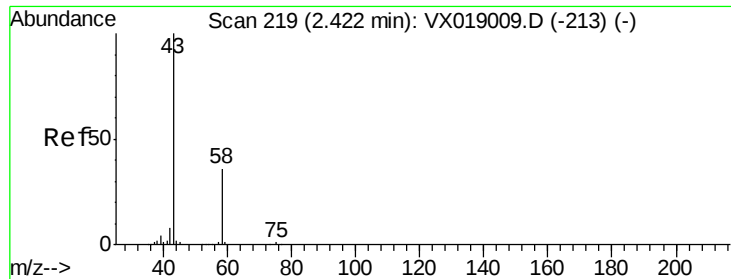
57 10.5 8.2 12.2



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

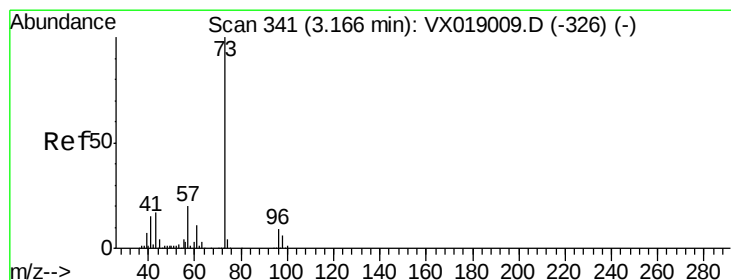
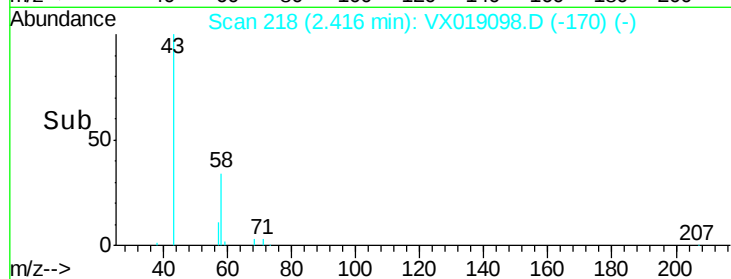
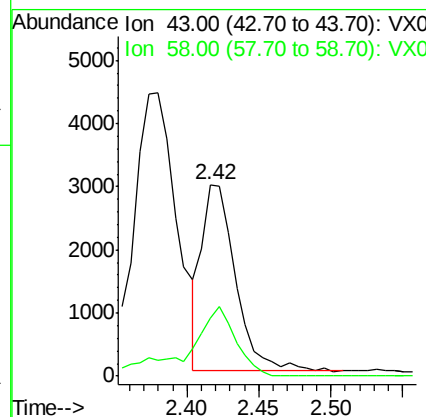
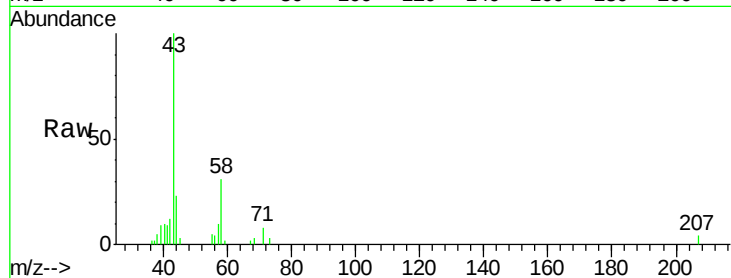




#16  
Acetone  
Concen: 4.255 ug/l  
RT: 2.42 min Scan# 218  
Delta R.T. -0.01 min  
Lab File: VX019098.D  
Acq: 24 Oct 2020 01:52

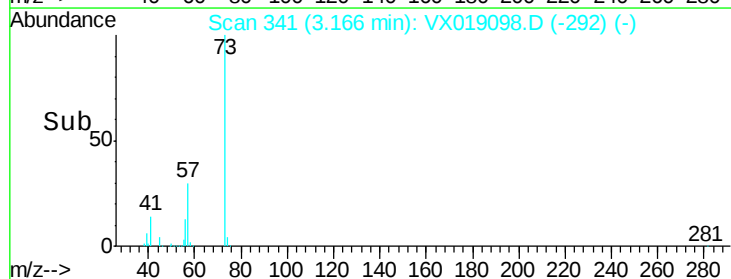
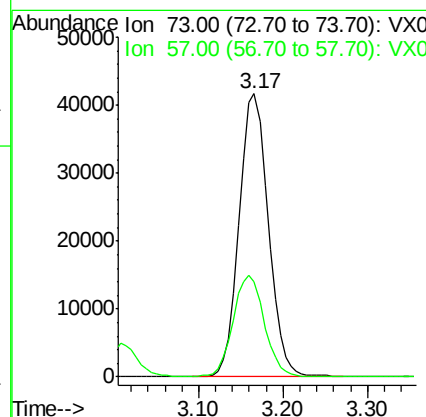
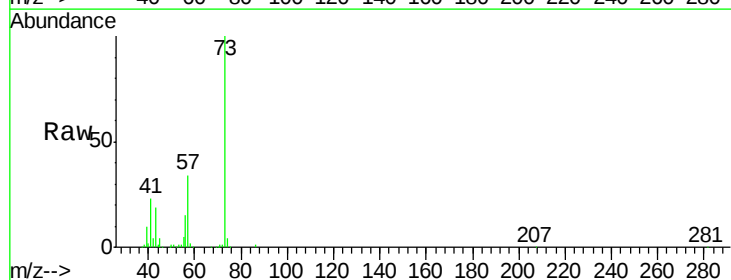
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-5DL

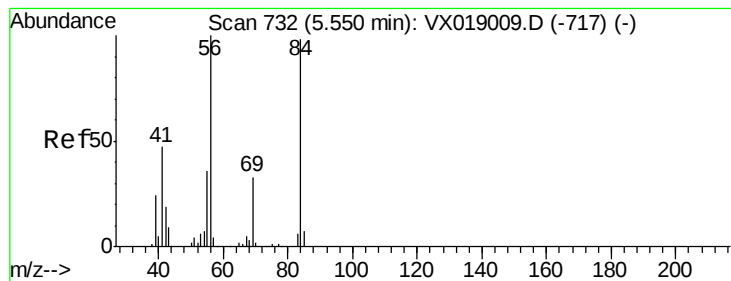
Tot Ion: 43 Resp: 4753  
Ion Ratio Lower Upper  
43 100  
58 31.4 28.6 42.8



#19  
Methyl tert-butyl Ether  
Concen: 11.587 ug/l  
RT: 3.17 min Scan# 341  
Delta R.T. -0.00 min  
Lab File: VX019098.D  
Acq: 24 Oct 2020 01:52

Tgt Ion: 73 Resp: 97804  
Ion Ratio Lower Upper  
73 100  
57 33.3 16.2 24.2#





#31

Cyclohexane

Concen: 7.854 ug/l

RT: 5.55 min Scan# 732

Delta R.T. -0.00 min

Lab File: VX019098.D

Acq: 24 Oct 2020 01:52

Instrument :

MSVOA\_X

ClientSampled :

MW-5DL

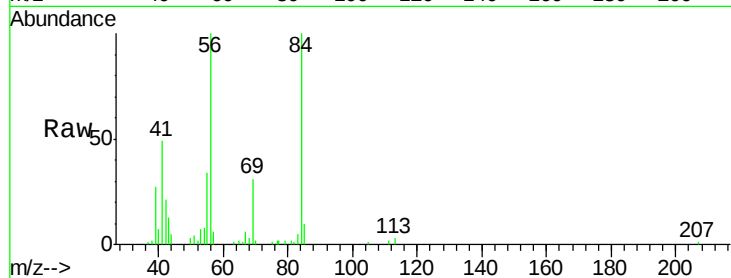
Tot Ion: 56 Resp: 30164

Ion Ratio Lower Upper

56 100

69 24.7 26.2 39.2#

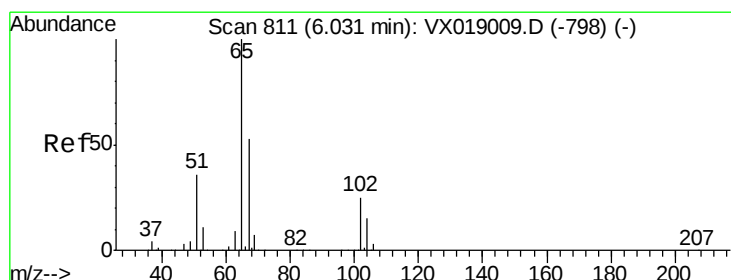
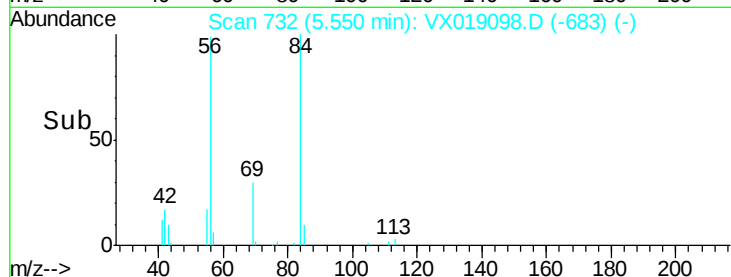
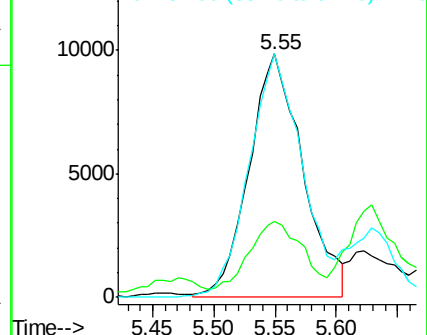
84 100.1 78.3 117.5



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.691 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019098.D

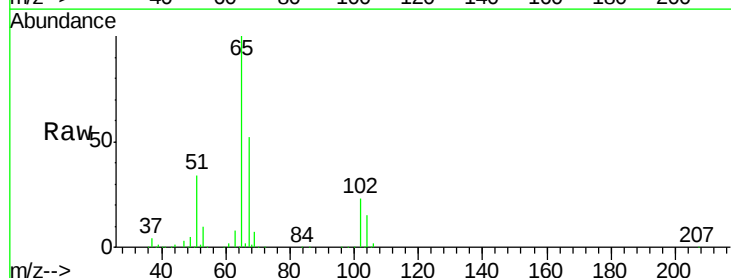
Acq: 24 Oct 2020 01:52

Tgt Ion: 65 Resp: 166241

Ion Ratio Lower Upper

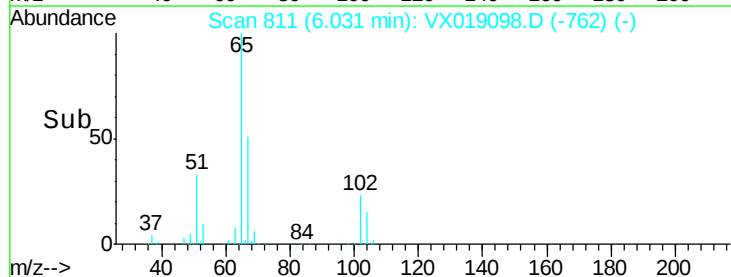
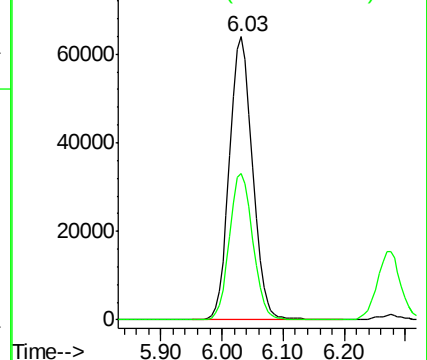
65 100

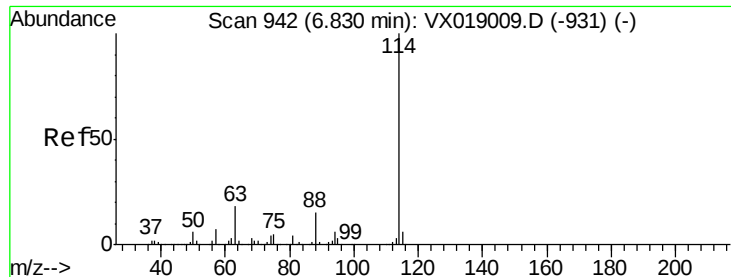
67 52.4 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019098.D

Acq: 24 Oct 2020 01:52

Instrument :

MSVOA\_X

ClientSampleId :

MW-5DL

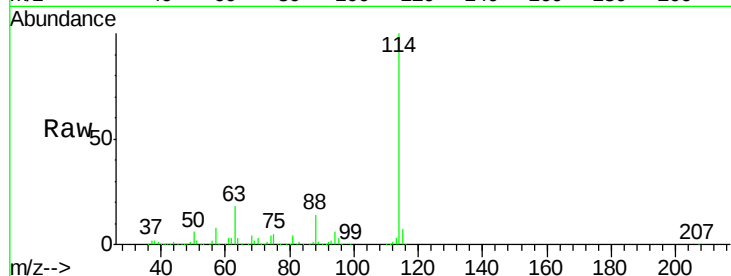
Tot Ion:114 Resp: 475315

Ion Ratio Lower Upper

114 100

63 17.6 0.0 36.8

88 14.5 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

250000

200000

150000

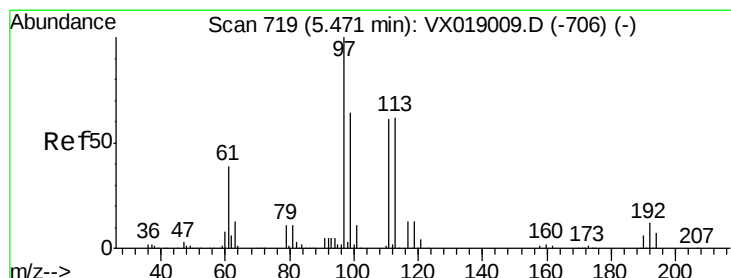
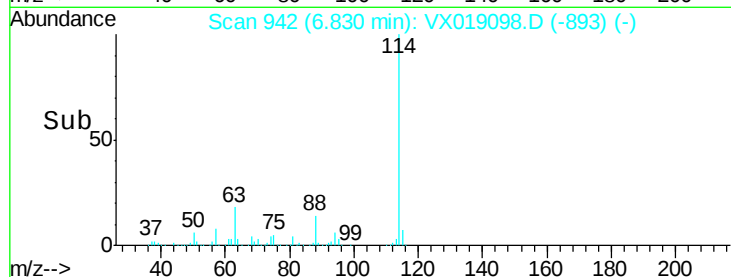
100000

50000

0

6.70 6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 47.925 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX019098.D

Acq: 24 Oct 2020 01:52

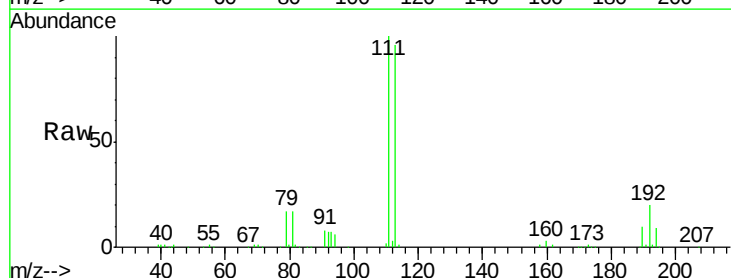
Tgt Ion:113 Resp: 144225

Ion Ratio Lower Upper

113 100

111 103.5 81.5 122.3

192 20.2 16.3 24.5



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

60000

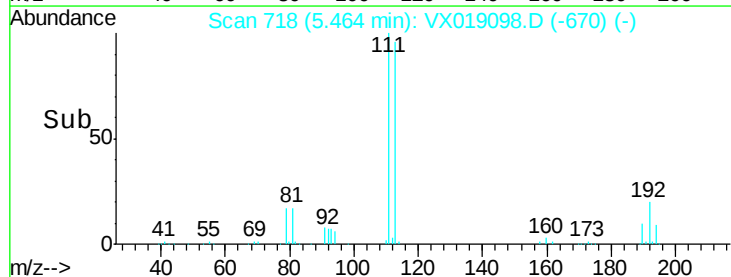
40000

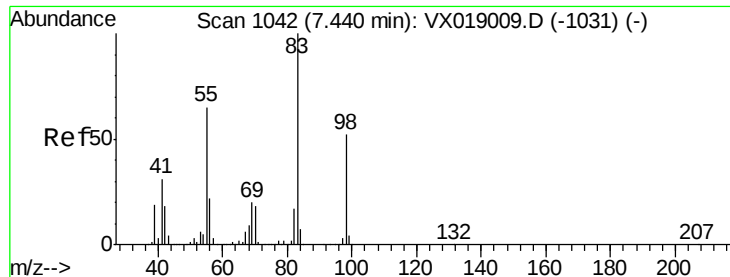
20000

0

5.30 5.40 5.50 5.60

Time-->

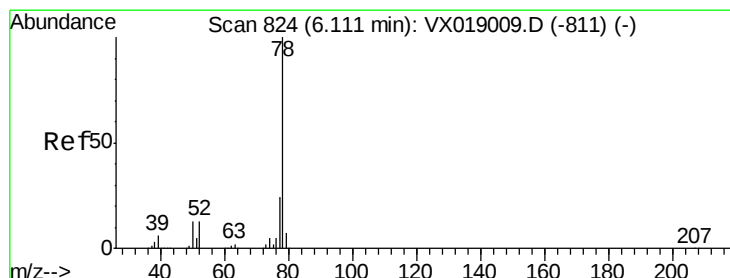
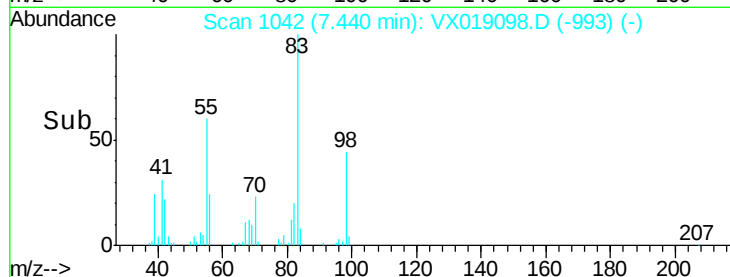
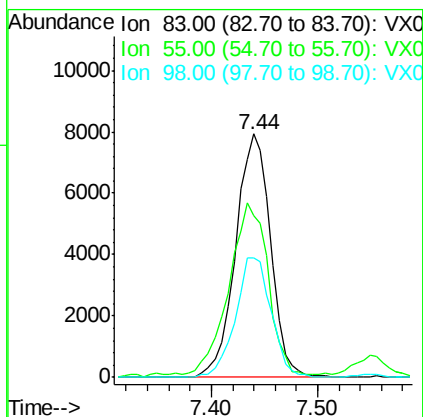
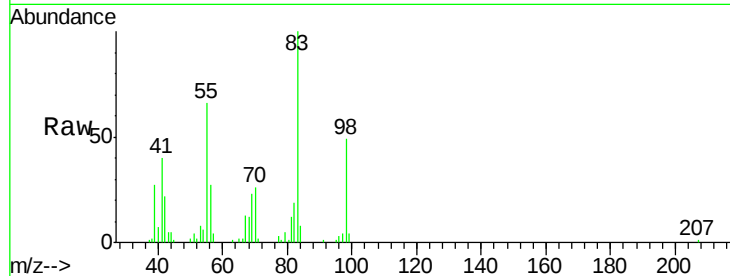




#39  
Methvlcvclohexane  
Concen: 3.813 ug/l  
RT: 7.44 min Scan# 1042  
Delta R.T. -0.00 min  
Lab File: VX019098.D  
Acq: 24 Oct 2020 01:52

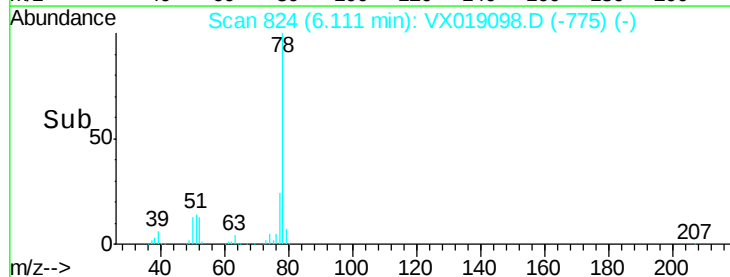
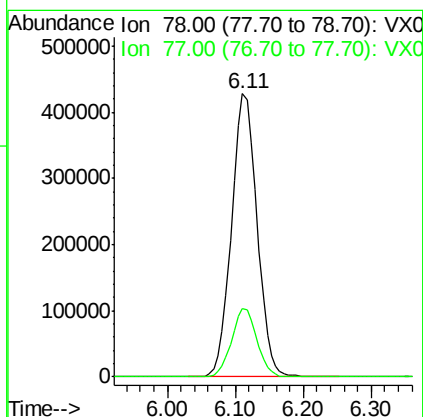
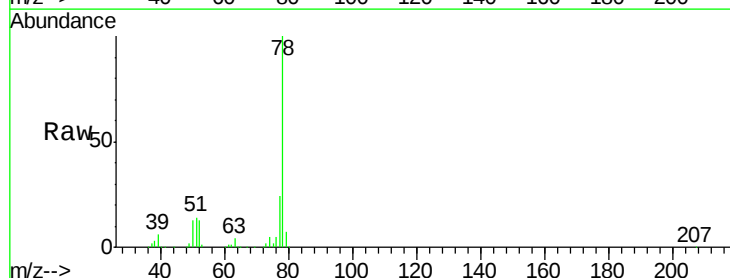
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-5DL

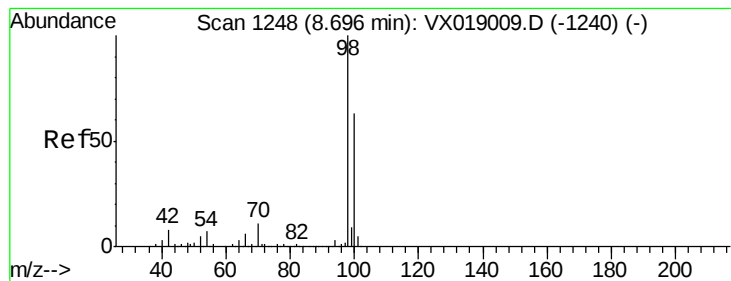
Tot Ion: 83 Resp: 18221  
Ion Ratio Lower Upper  
83 100  
55 64.6 51.8 77.6  
98 49.3 41.4 62.2



#40  
Benzene  
Concen: 88.975 ug/l  
RT: 6.11 min Scan# 824  
Delta R.T. -0.00 min  
Lab File: VX019098.D  
Acq: 24 Oct 2020 01:52

Tgt Ion: 78 Resp: 1117609  
Ion Ratio Lower Upper  
78 100  
77 23.9 19.3 28.9





#50

Toluene-d8

Concen: 50.904 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019098.D

Acq: 24 Oct 2020 01:52

Instrument :

MSVOA\_X

ClientSampleId :

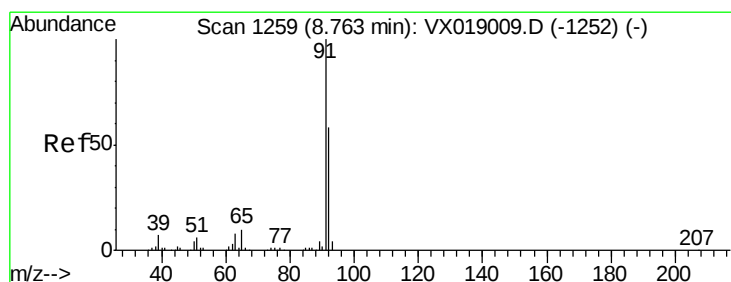
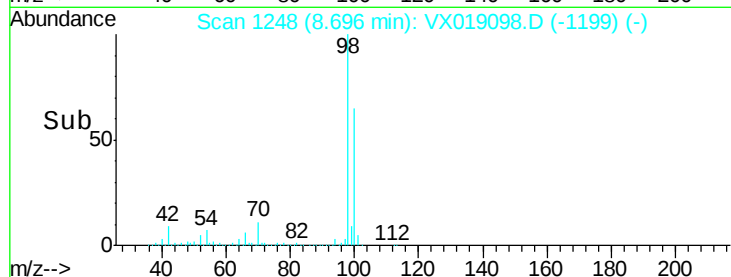
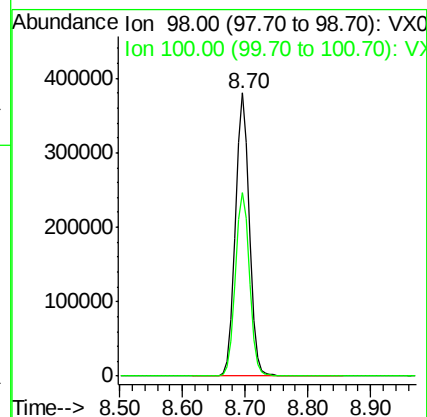
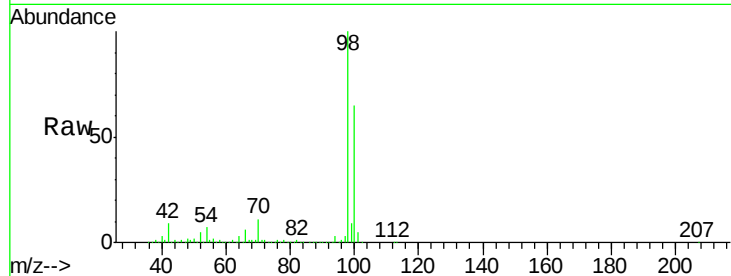
MW-5DL

Tot Ion: 98 Resp: 584575

Ion Ratio Lower Upper

98 100

100 66.1 52.1 78.1



#52

Toluene

Concen: 7.466 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX019098.D

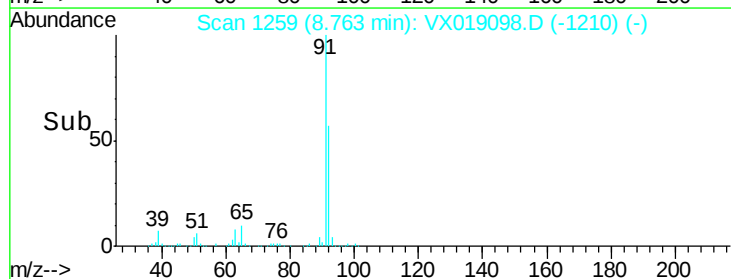
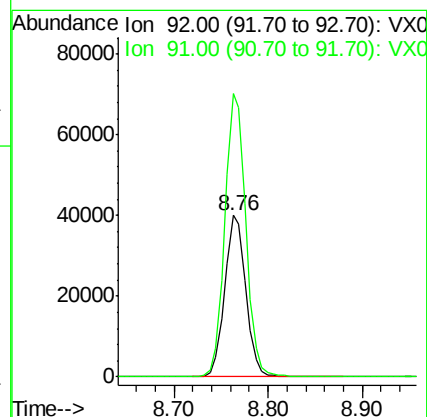
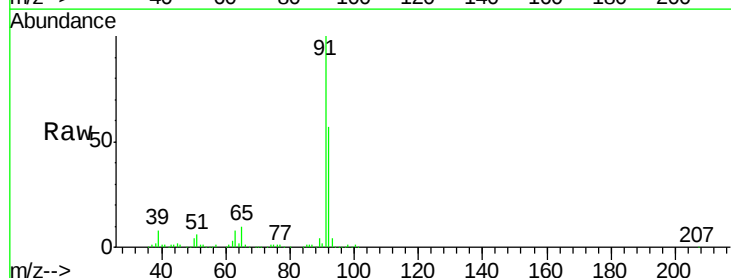
Acq: 24 Oct 2020 01:52

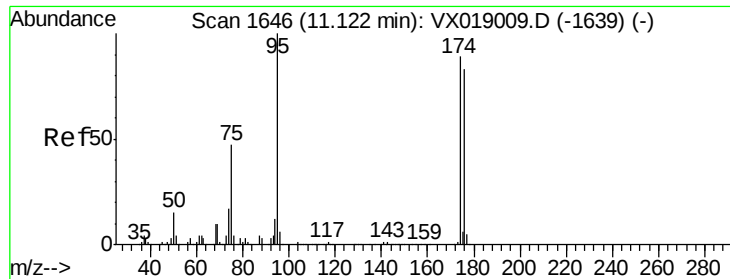
Tgt Ion: 92 Resp: 61938

Ion Ratio Lower Upper

92 100

91 175.0 138.6 208.0

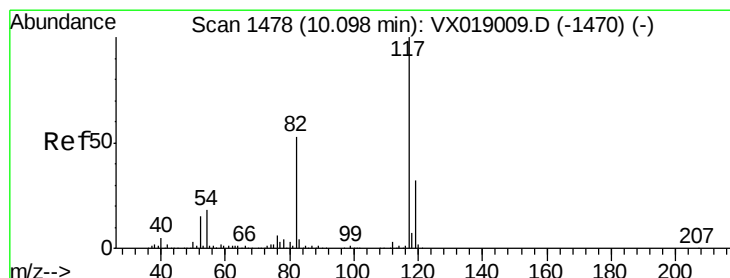
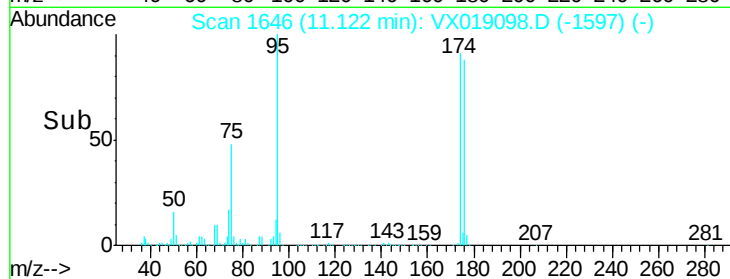
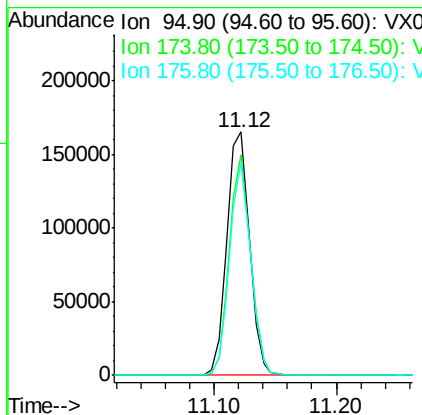
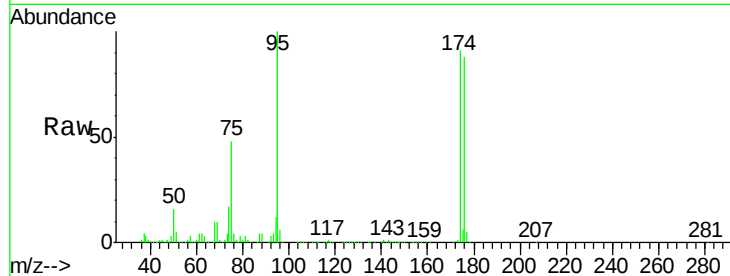




#62  
4-Bromofluorobenzene  
Concen: 51.789 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX019098.D  
Acq: 24 Oct 2020 01:52

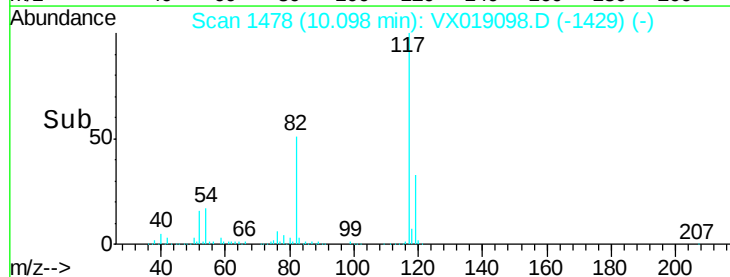
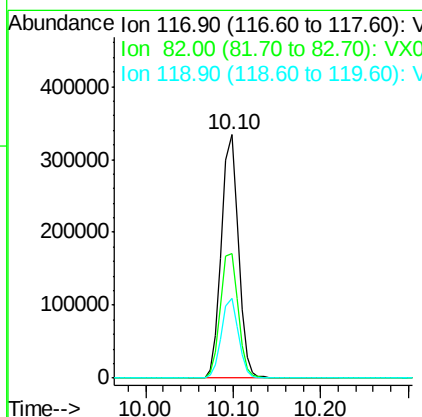
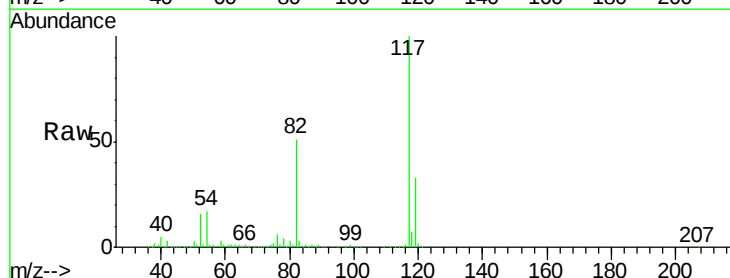
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-5DL

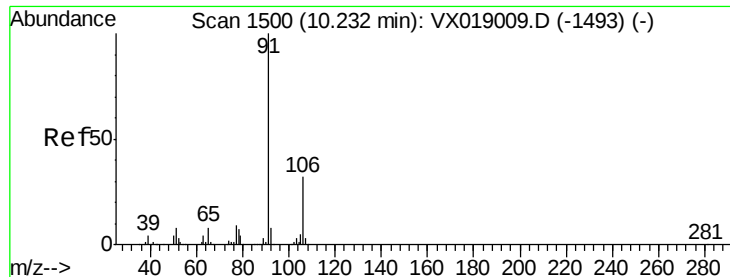
Tot Ion: 95 Resp: 211552  
Ion Ratio Lower Upper  
95 100  
174 85.1 0.0 167.6  
176 81.8 0.0 165.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX019098.D  
Acq: 24 Oct 2020 01:52

Tgt Ion: 117 Resp: 448914  
Ion Ratio Lower Upper  
117 100  
82 51.3 42.4 63.6  
119 32.8 25.6 38.4

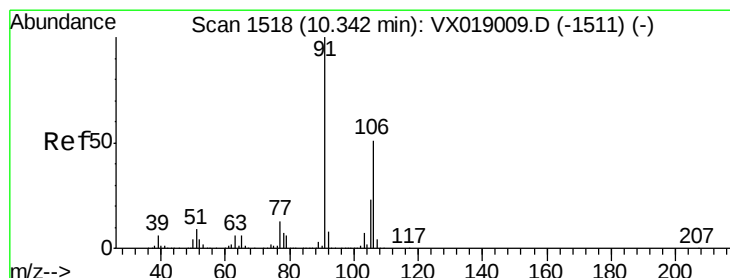
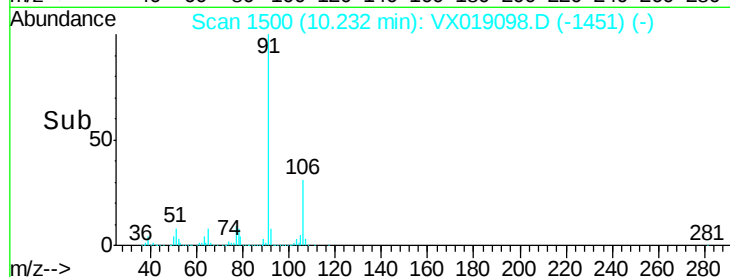
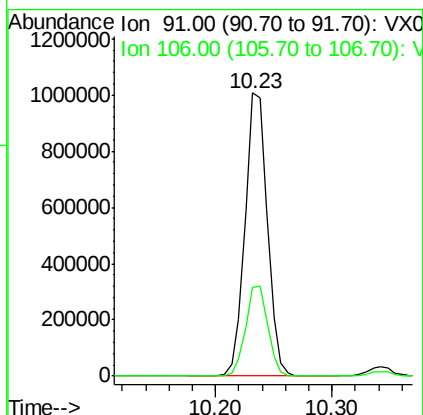
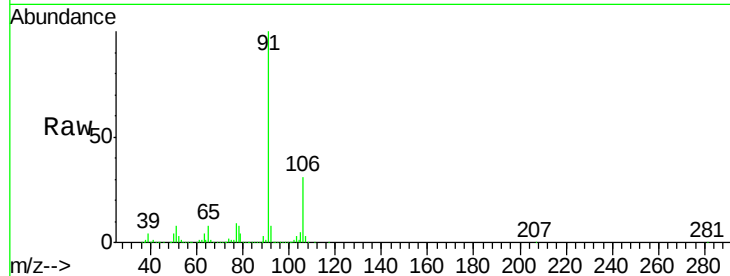




#67  
Ethyl Benzene  
Concen: 83.476 ug/l  
RT: 10.23 min Scan# 1500  
Delta R.T. -0.00 min  
Lab File: VX019098.D  
Acq: 24 Oct 2020 01:52

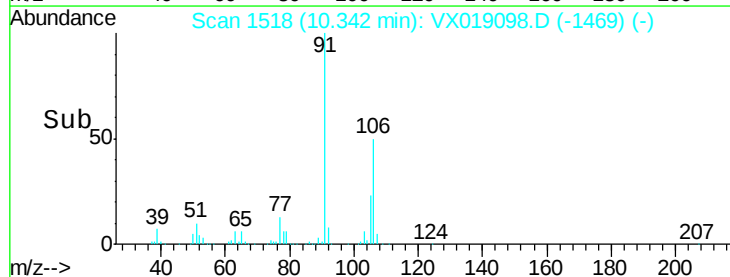
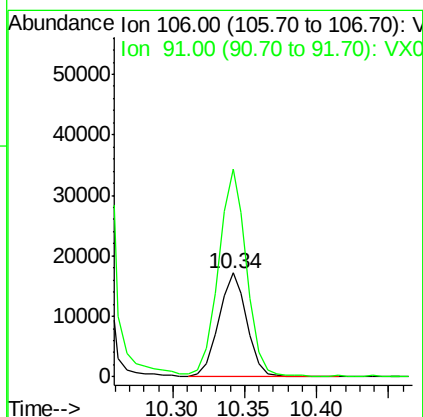
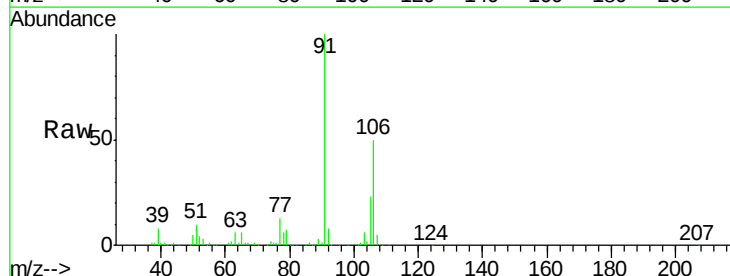
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-5DL

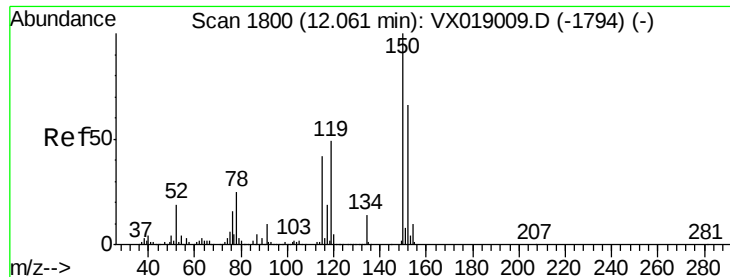
Tot Ion: 91 Resp: 1354928  
Ion Ratio Lower Upper  
91 100  
106 31.3 25.3 37.9



#68  
m/p-Xylenes  
Concen: 3.811 ug/l  
RT: 10.34 min Scan# 1518  
Delta R.T. -0.00 min  
Lab File: VX019098.D  
Acq: 24 Oct 2020 01:52

Tgt Ion: 106 Resp: 23698  
Ion Ratio Lower Upper  
106 100  
91 196.7 156.9 235.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019098.D

Acq: 24 Oct 2020 01:52

Instrument :

MSVOA\_X

ClientSampleId :

MW-5DL

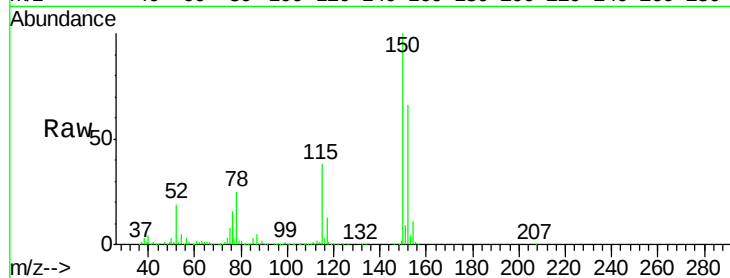
Tot Ion:152 Resp: 231973

Ion Ratio Lower Upper

152 100

115 57.5 40.8 122.5

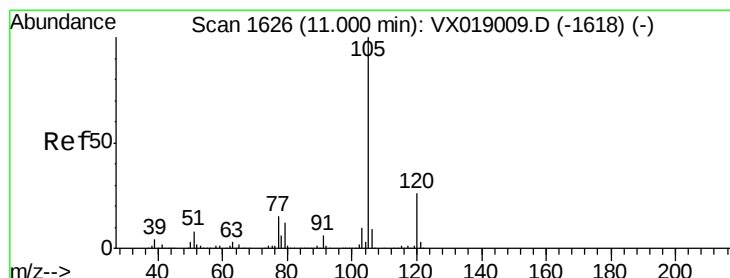
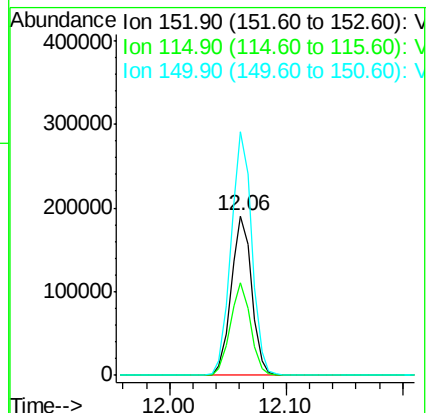
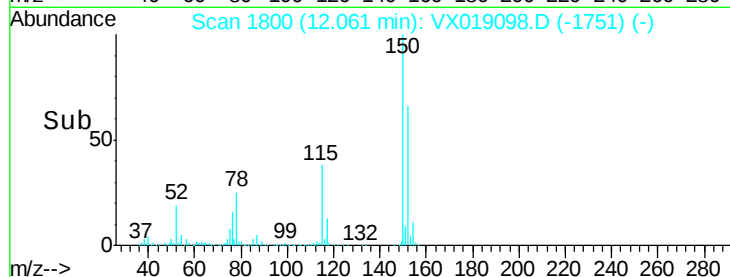
150 155.4 0.0 345.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 18.142 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX019098.D

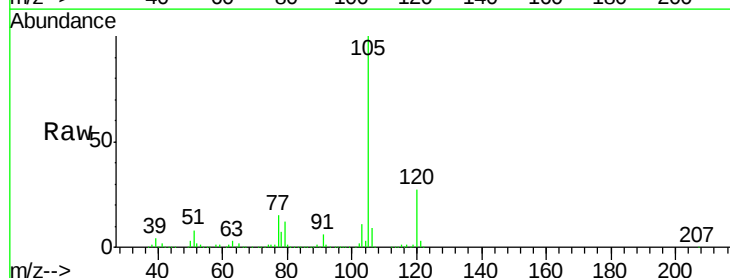
Acq: 24 Oct 2020 01:52

Tgt Ion:105 Resp: 302739

Ion Ratio Lower Upper

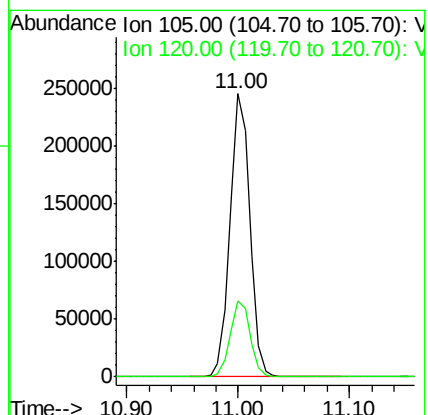
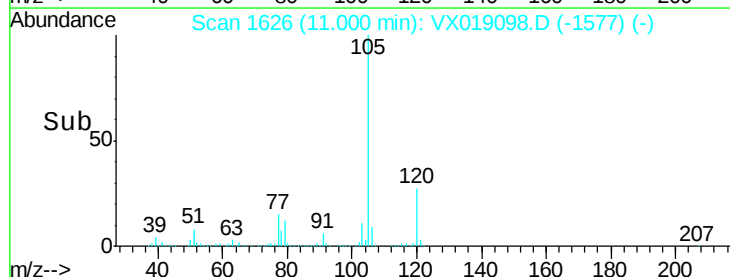
105 100

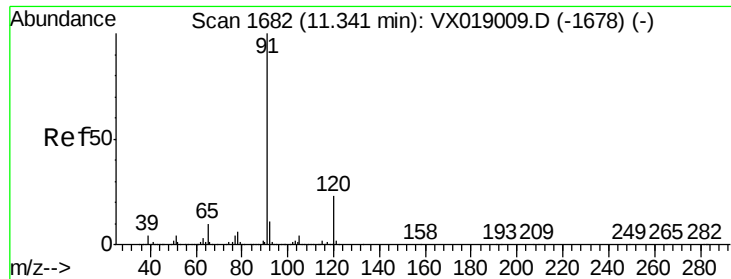
120 26.8 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 16.274 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. -0.00 min

Lab File: VX019098.D

Acq: 24 Oct 2020 01:52

Instrument :

MSVOA\_X

ClientSampled :

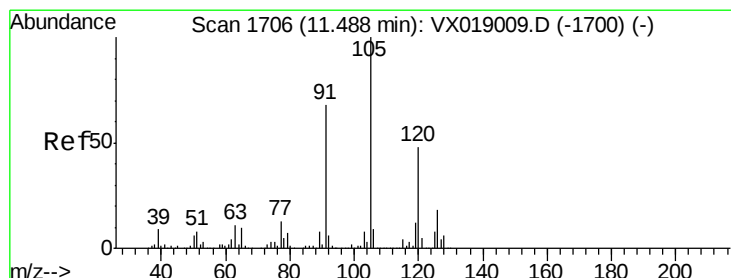
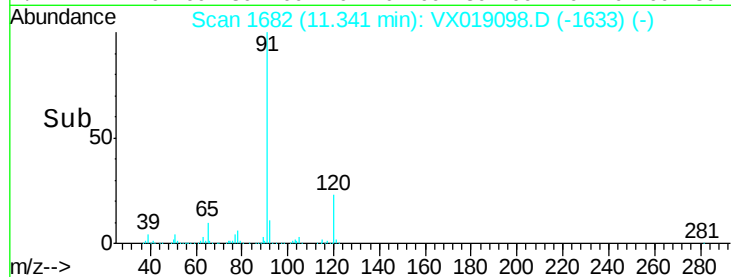
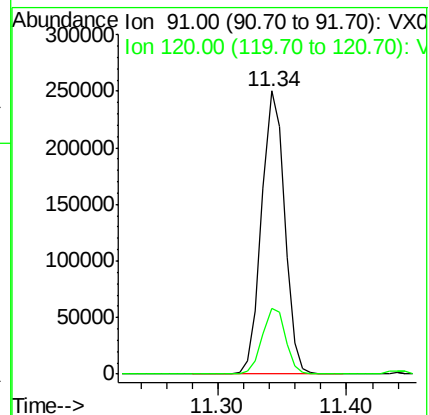
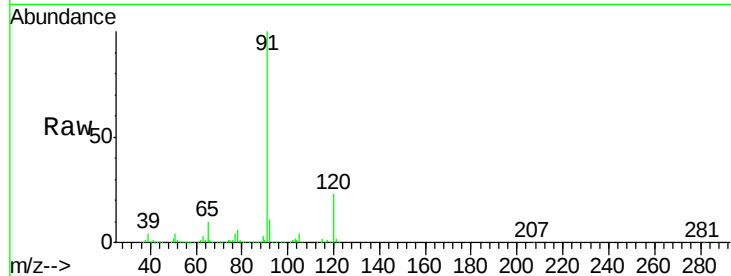
MW-5DL

Tot Ion: 91 Resp: 307729

Ion Ratio Lower Upper

91 100

120 23.7 12.1 36.3



#80

1,3,5-Trimethylbenzene

Concen: 1.188 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX019098.D

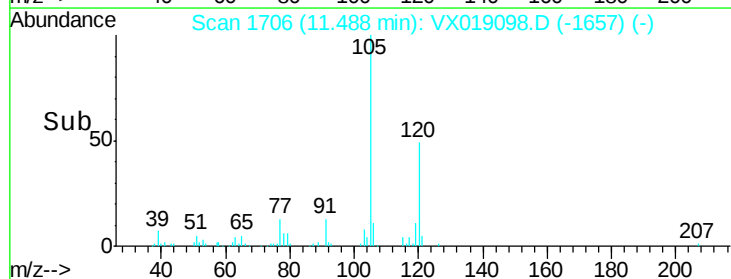
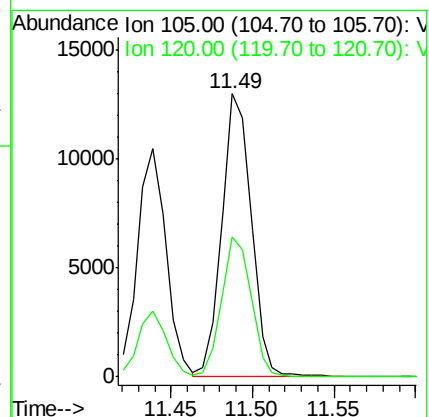
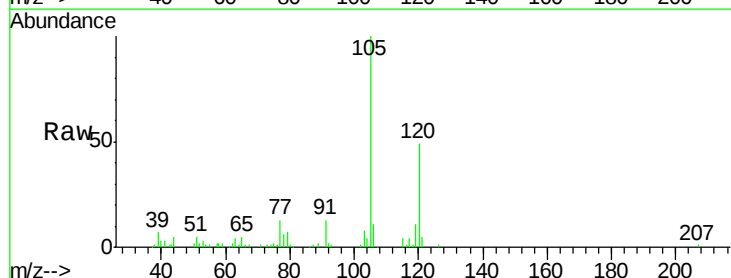
Acq: 24 Oct 2020 01:52

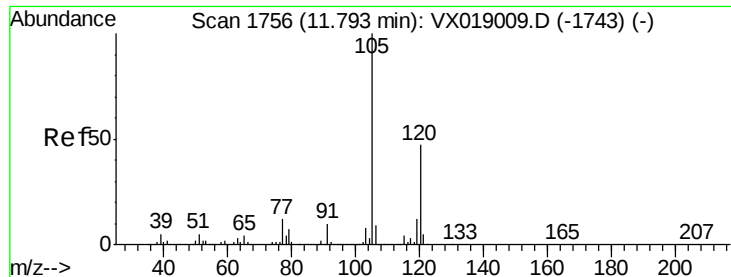
Tgt Ion: 105 Resp: 16369

Ion Ratio Lower Upper

105 100

120 49.8 25.2 75.6





#84

1,2,4-Trimethylbenzene

Concen: 0.228 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX019098.D

Acq: 24 Oct 2020 01:52

Instrument :

MSVOA\_X

ClientSampled :

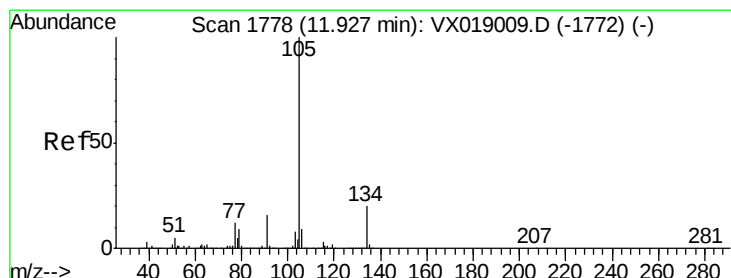
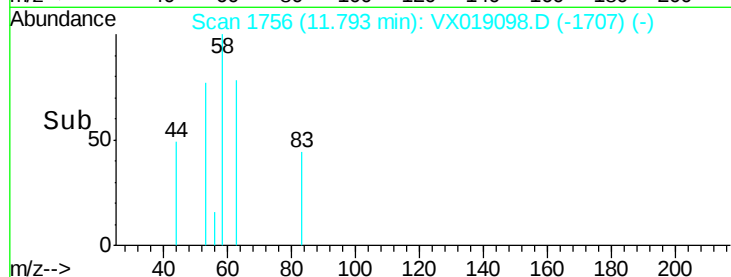
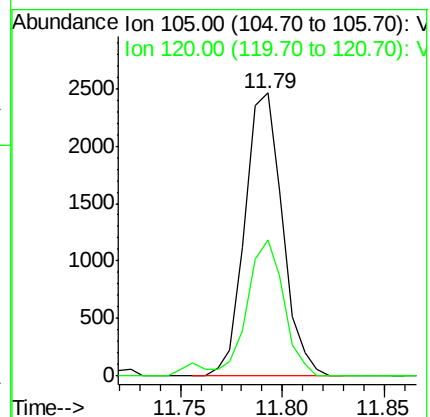
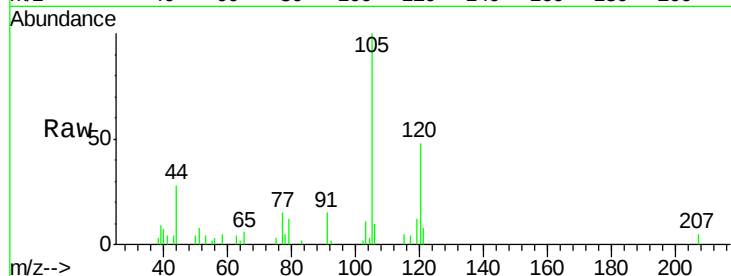
MW-5DL

Tot Ion:105 Resp: 3153

Ion Ratio Lower Upper

105 100

120 46.0 22.9 68.8



#85

sec-Butylbenzene

Concen: 0.692 ug/l

RT: 11.93 min Scan# 1779

Delta R.T. 0.01 min

Lab File: VX019098.D

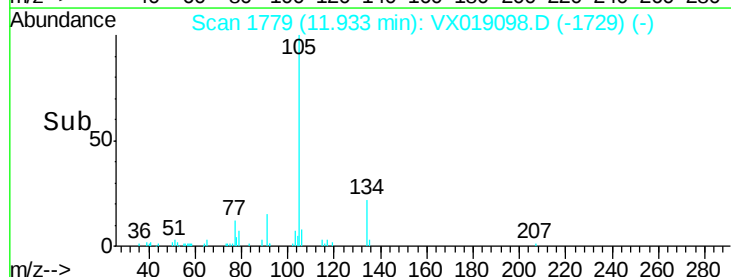
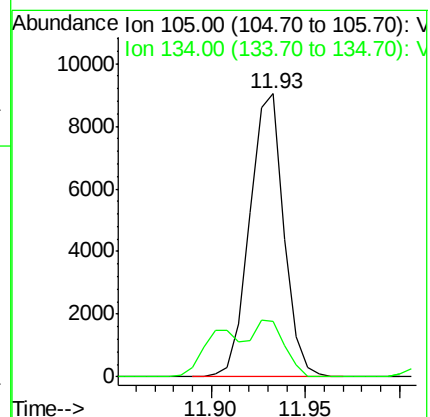
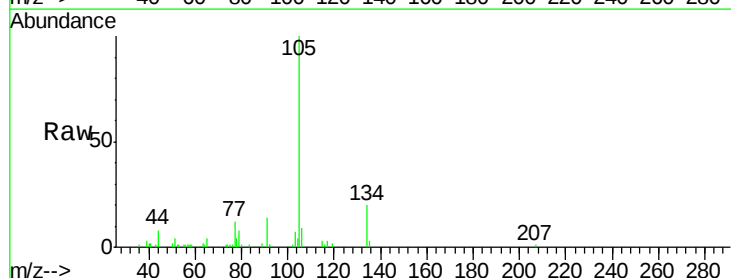
Acq: 24 Oct 2020 01:52

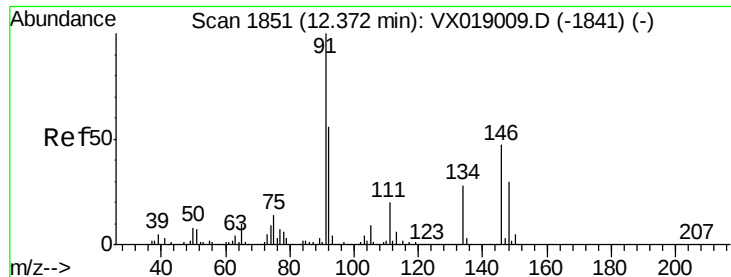
Tgt Ion:105 Resp: 11374

Ion Ratio Lower Upper

105 100

134 19.7 10.4 31.1





#89

n-Butylbenzene

Concen: 1.210 ug/l

RT: 12.37 min Scan# 1851

Delta R.T. -0.00 min

Lab File: VX019098.D

Acq: 24 Oct 2020 01:52

Instrument :

MSVOA\_X

ClientSampled :

MW-5DL

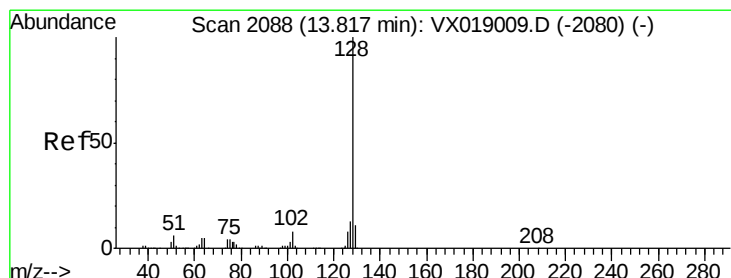
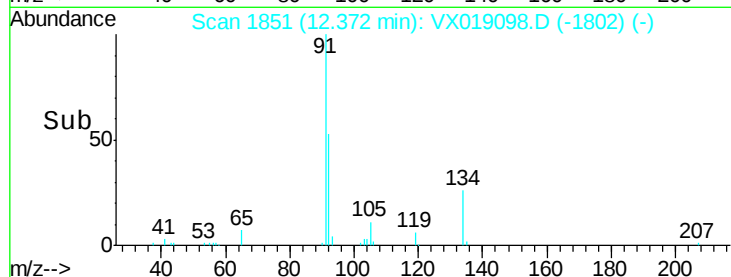
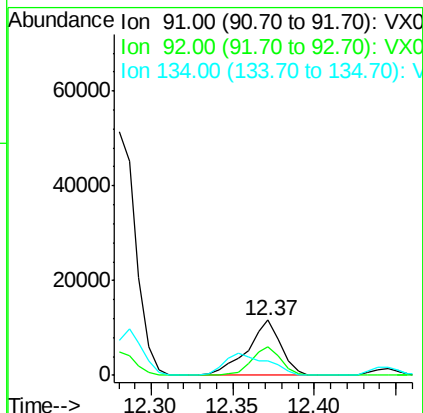
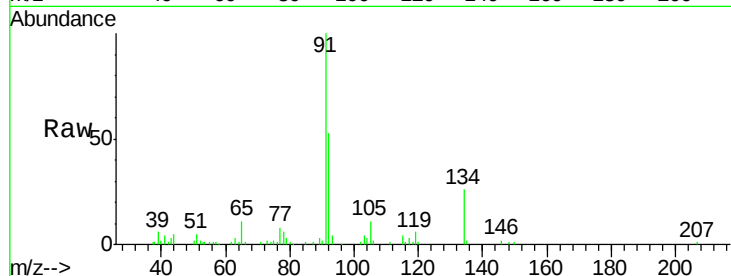
Tot Ion: 91 Resp: 16630

Ion Ratio Lower Upper

91 100

92 46.0 27.3 81.9

134 52.0 13.6 40.7#



#95

Naphthalene

Concen: 23.581 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX019098.D

Acq: 24 Oct 2020 01:52

Tgt Ion:128 Resp: 391274

Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

129 11.0 8.7 13.1

