

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092319\  
 Data File : VX012615.D  
 Acq On : 23 Sep 2019 19:27  
 Operator : JC/SP  
 Sample : K4978-04DL 10X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z2-0163DL

Quant Time: Sep 24 12:37:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 23 12:27:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 171282   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 297666   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 251251   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 100369   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 125418   | 50.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 100.56% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 89198    | 50.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 100.64% |          |
| 50) Toluene-d8              | 8.71  | 98   | 351547   | 51.49 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 102.98% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 122233   | 45.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 91.08%  |          |

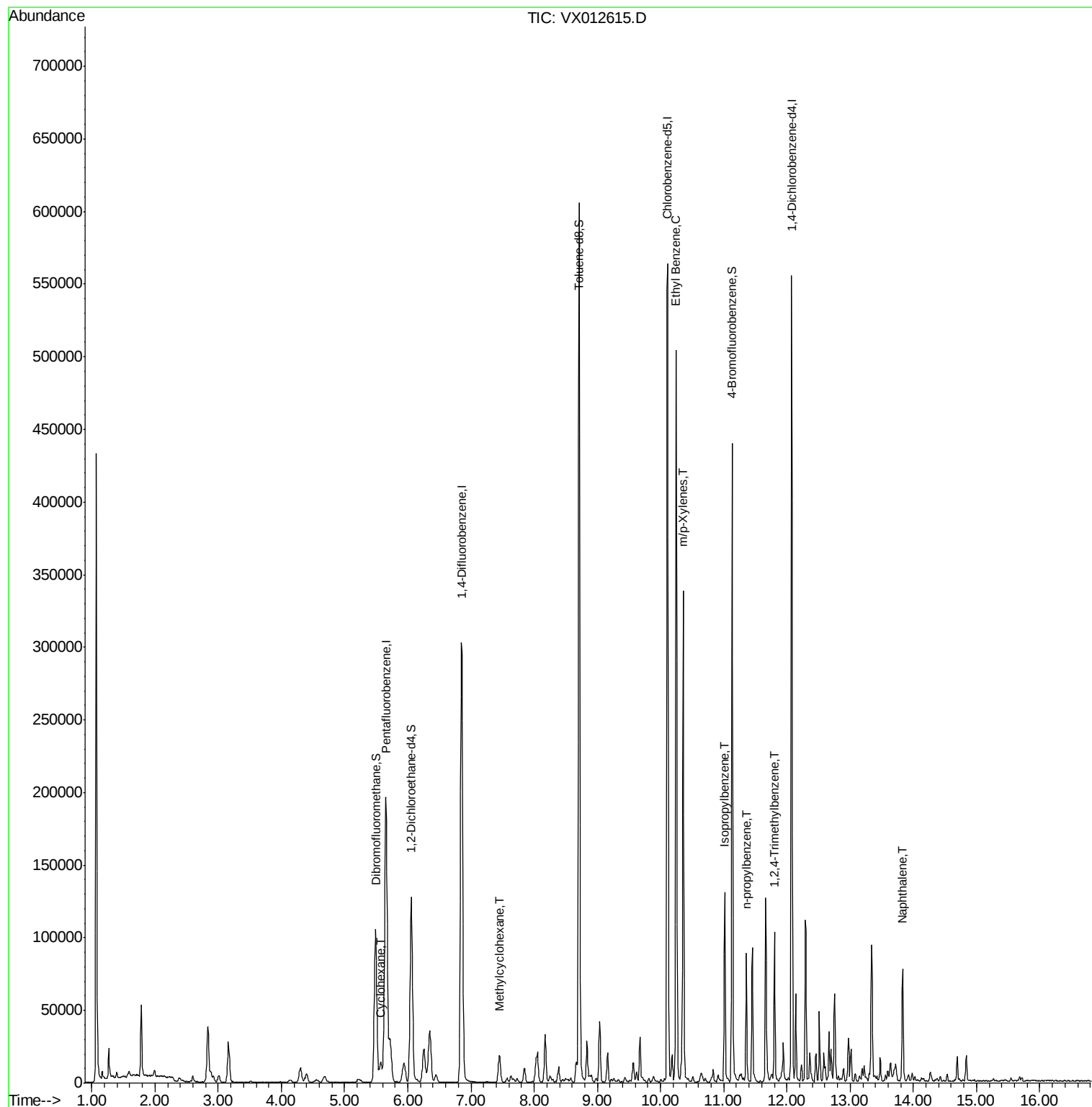
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 31) Cyclohexane            | 5.57  | 56   | 8624     | 2.484  | ug/l   | 97     |
| 39) Methylcyclohexane      | 7.45  | 83   | 6339     | 1.835  | ug/l # | 71     |
| 67) Ethyl Benzene          | 10.25 | 91   | 297340   | 30.985 | ug/l   | 98     |
| 68) m/p-Xylenes            | 10.35 | 106  | 73259    | 20.380 | ug/l   | 98     |
| 73) Isopropylbenzene       | 11.01 | 105  | 65742    | 8.042  | ug/l   | 100    |
| 78) n-propylbenzene        | 11.35 | 91   | 51093    | 5.552  | ug/l   | 100    |
| 84) 1,2,4-Trimethylbenzene | 11.81 | 105  | 45801    | 6.623  | ug/l   | 98     |
| 95) Naphthalene            | 13.83 | 128  | 47781    | 6.496  | ug/l   | 99     |

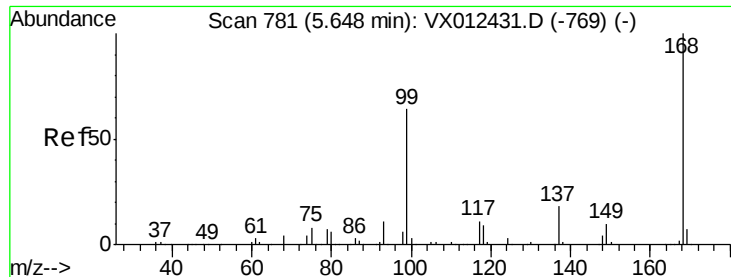
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ZZ-0163DL

Quant Time: Sep 24 12:37:50 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
Quant Title : SW846 8260  
QLast Update : Mon Sep 23 12:27:01 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012615.D

Acq: 23 Sep 2019 19:27

Instrument :

MSVOA\_X

ClientSampleId :

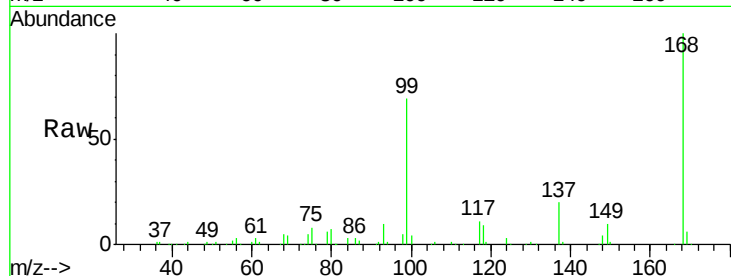
Z2-0163DL

Tot Ion:168 Resp: 171282

Ion Ratio Lower Upper

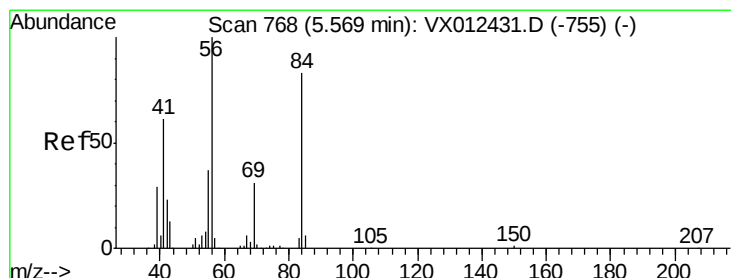
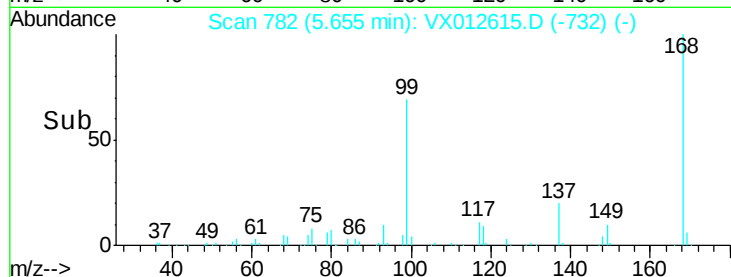
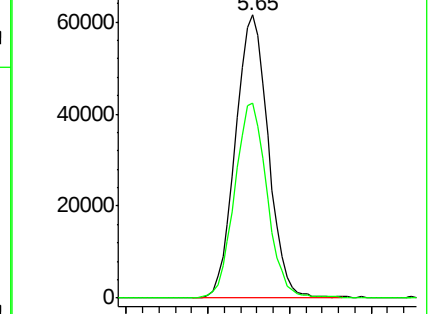
168 100

99 69.1 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#31

Cyclohexane

Concen: 2.484 ug/l

RT: 5.57 min Scan# 768

Delta R.T. 0.00 min

Lab File: VX012615.D

Acq: 23 Sep 2019 19:27

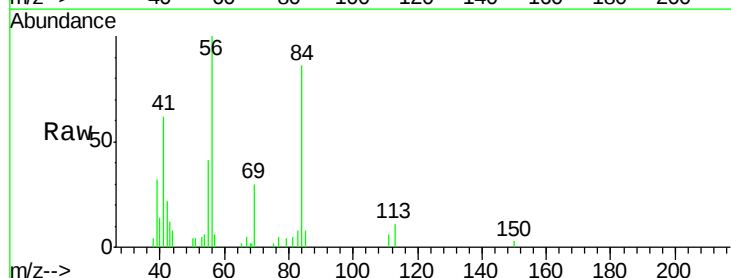
Tgt Ion: 56 Resp: 8624

Ion Ratio Lower Upper

56 100

69 30.2 25.0 37.6

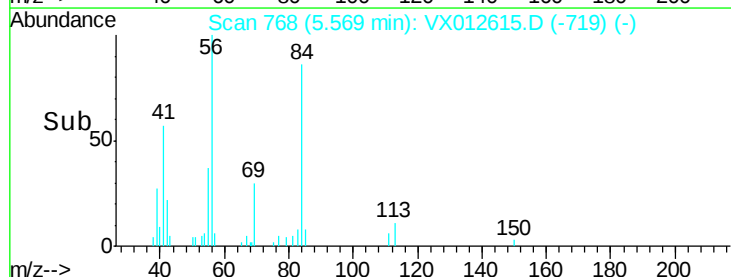
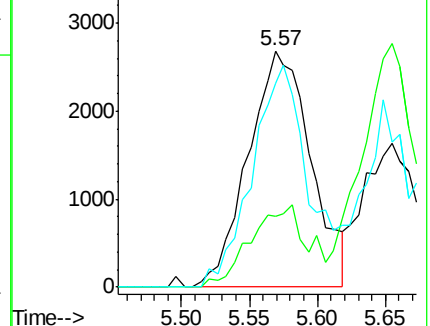
84 86.4 66.4 99.6

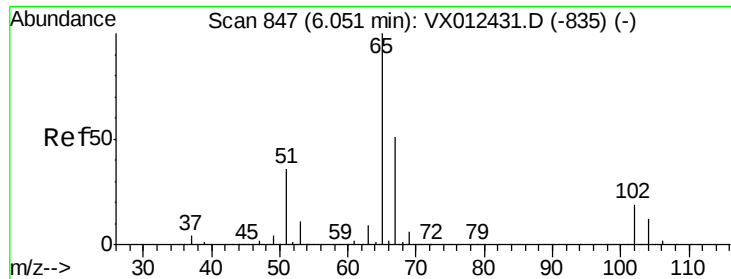


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

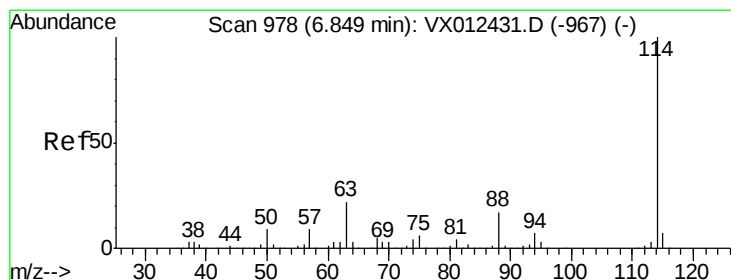
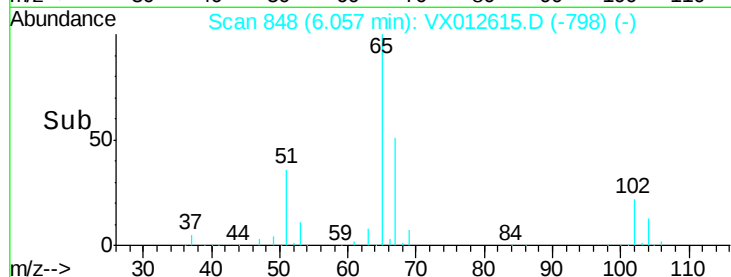
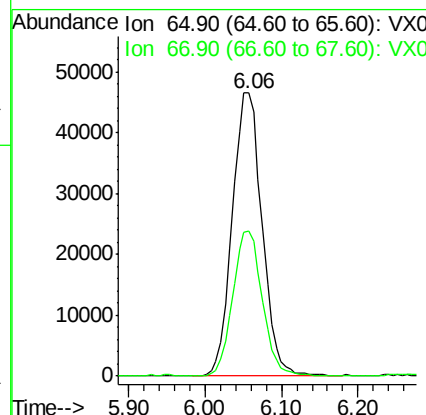
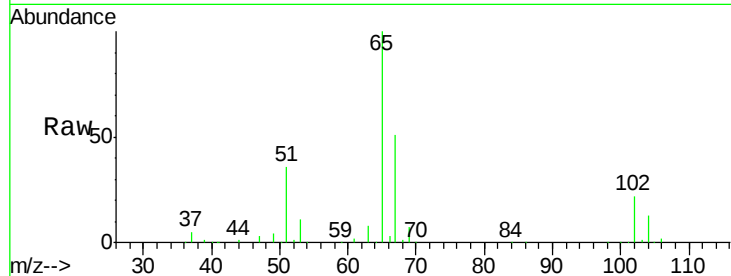




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.284 ug/l  
 RT: 6.06 min Scan# 848  
 Delta R.T. 0.01 min  
 Lab File: VX012615.D  
 Acq: 23 Sep 2019 19:27

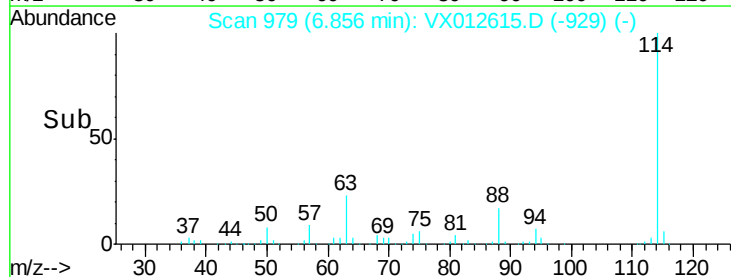
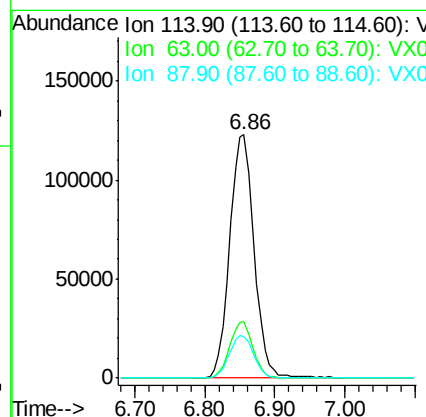
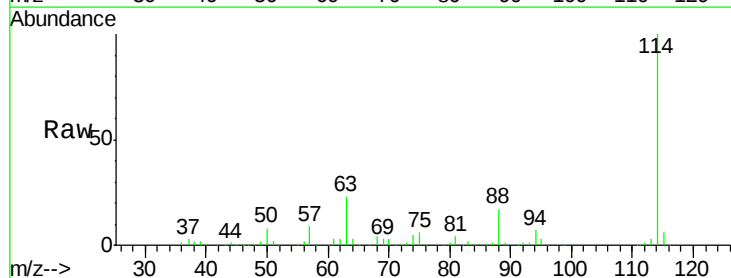
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 Z2-0163DL

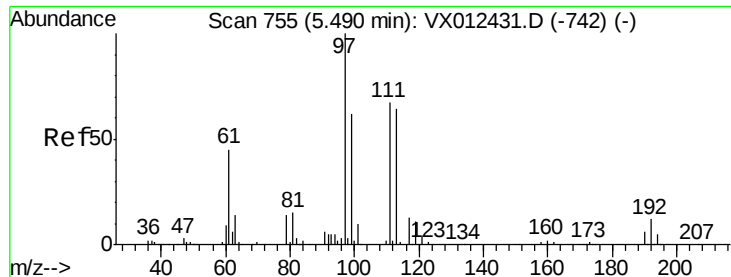
Tot Ion: 65 Resp: 125418  
 Ion Ratio Lower Upper  
 65 100  
 67 50.8 0.0 101.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 979  
 Delta R.T. 0.01 min  
 Lab File: VX012615.D  
 Acq: 23 Sep 2019 19:27

Tgt Ion: 114 Resp: 297666  
 Ion Ratio Lower Upper  
 114 100  
 63 23.3 0.0 43.2  
 88 17.0 0.0 33.2





#35

Dibromofluoromethane

Concen: 50.317 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012615.D

Acq: 23 Sep 2019 19:27

Instrument :

MSVOA\_X

ClientSampleId :

Z2-0163DL

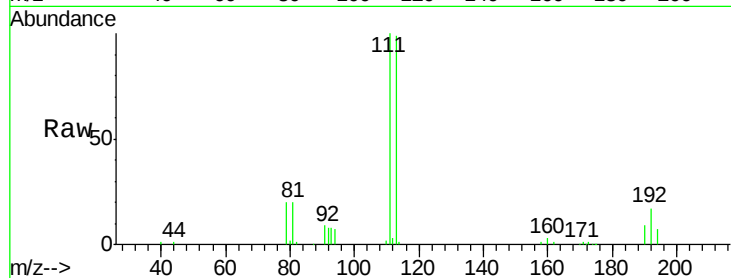
Tot Ion:113 Resp: 89198

Ion Ratio Lower Upper

113 100

111 103.2 83.4 125.2

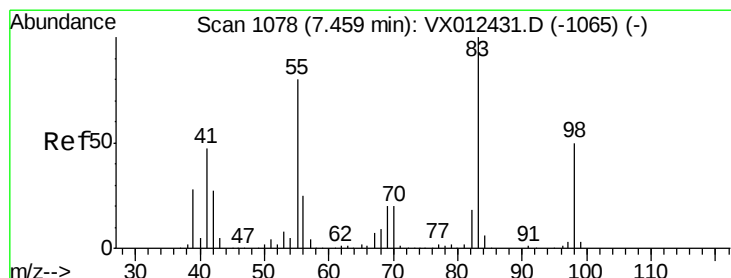
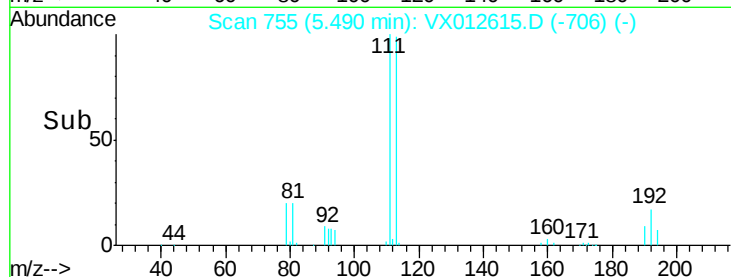
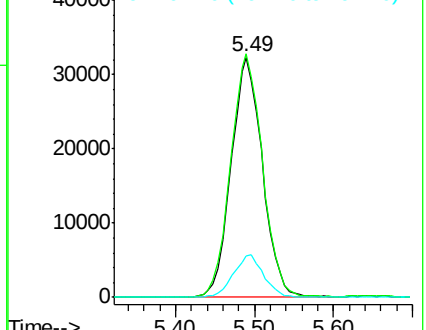
192 17.1 14.4 21.6



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



#39

Methylcyclohexane

Concen: 1.835 ug/l

RT: 7.45 min Scan# 1077

Delta R.T. -0.01 min

Lab File: VX012615.D

Acq: 23 Sep 2019 19:27

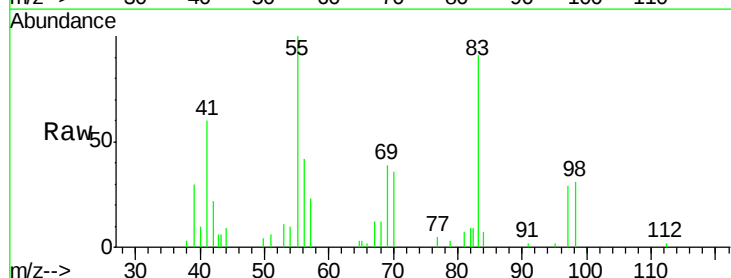
Tgt Ion: 83 Resp: 6339

Ion Ratio Lower Upper

83 100

55 110.0 64.4 96.6#

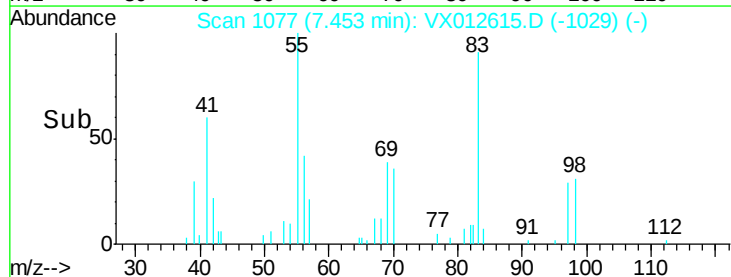
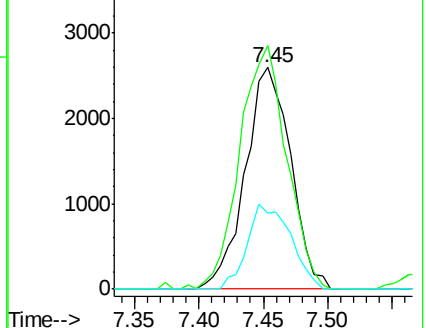
98 34.0 40.1 60.1#

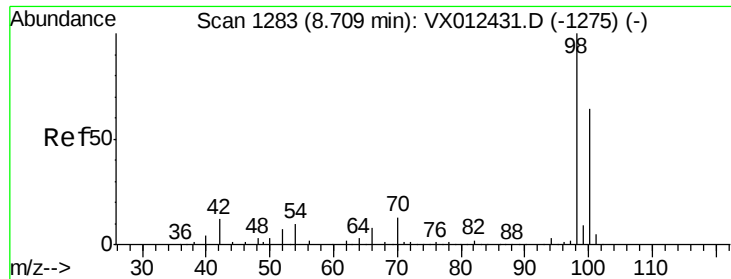


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 51.494 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012615.D

Acq: 23 Sep 2019 19:27

Instrument :

MSVOA\_X

ClientSampleId :

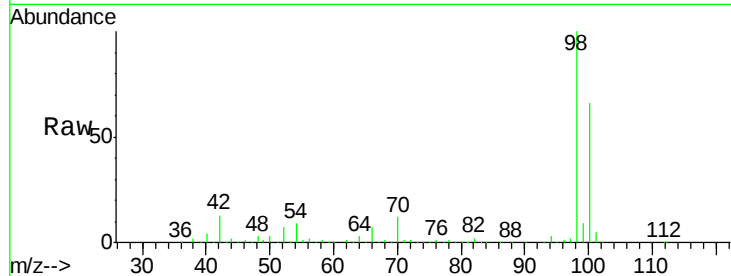
Z2-0163DL

Tot Ion: 98 Resp: 351547

Ion Ratio Lower Upper

98 100

100 66.3 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

250000

200000

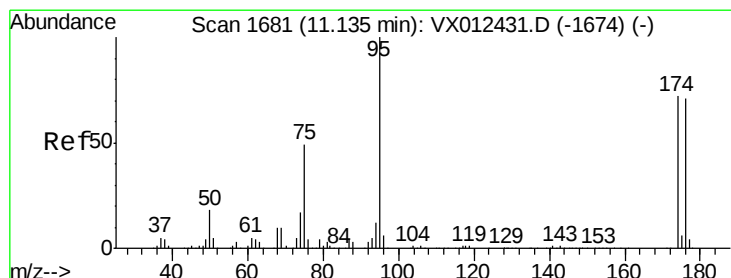
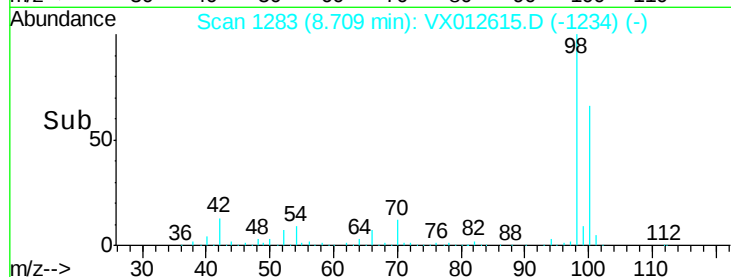
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 45.535 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012615.D

Acq: 23 Sep 2019 19:27

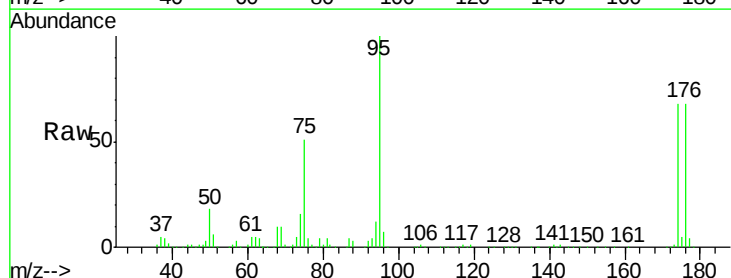
Tgt Ion: 95 Resp: 122233

Ion Ratio Lower Upper

95 100

174 66.7 0.0 140.0

176 65.0 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

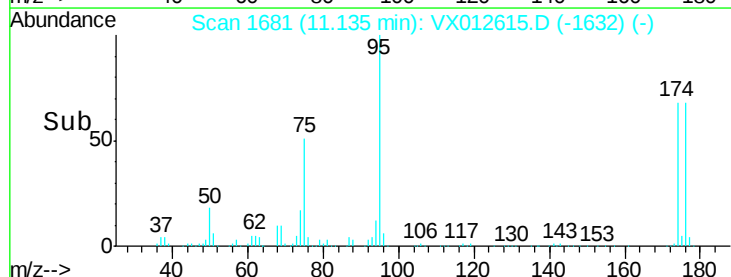
60000

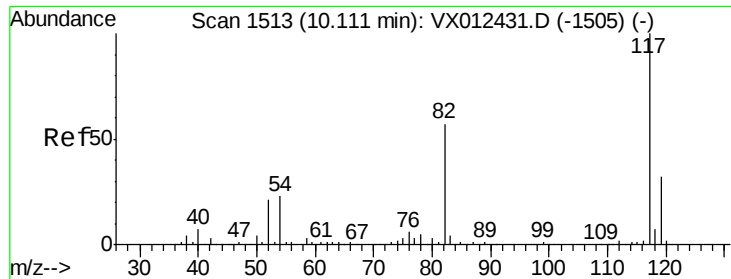
40000

20000

0

Time-->

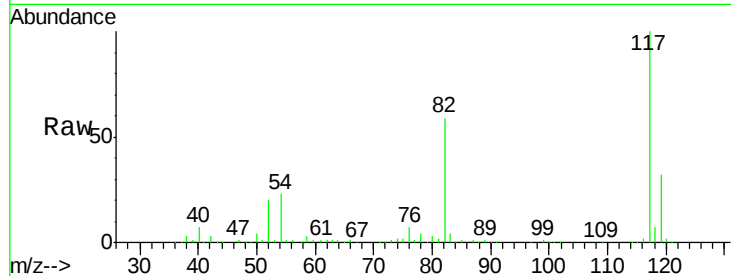




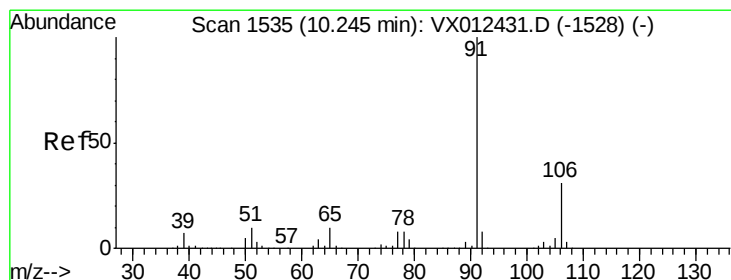
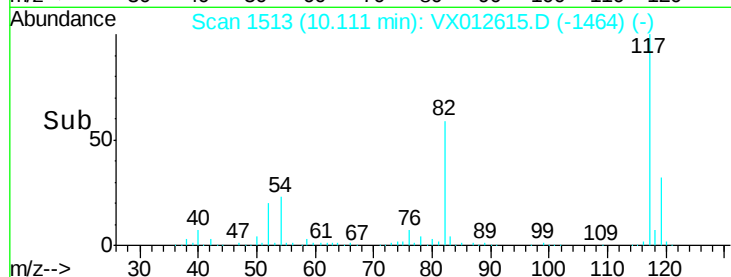
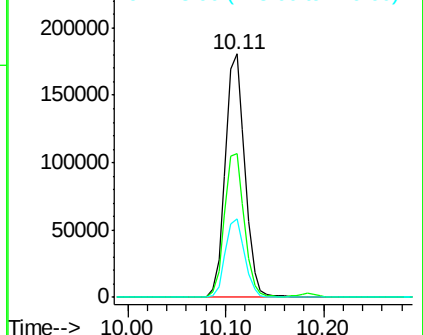
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX012615.D  
Acq: 23 Sep 2019 19:27

Instrument :  
MSVOA\_X  
ClientSampleId :  
Z2-0163DL

Tot Ion:117 Resp: 251251  
Ion Ratio Lower Upper  
117 100  
82 59.1 45.9 68.9  
119 32.1 25.3 37.9

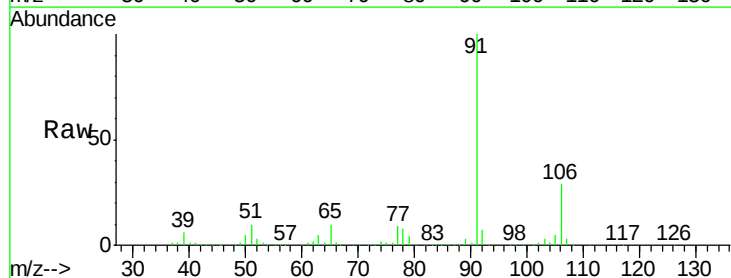


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

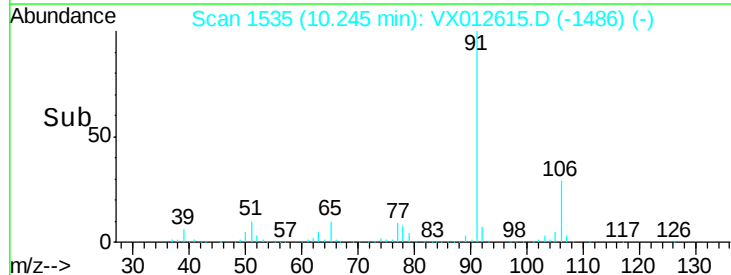
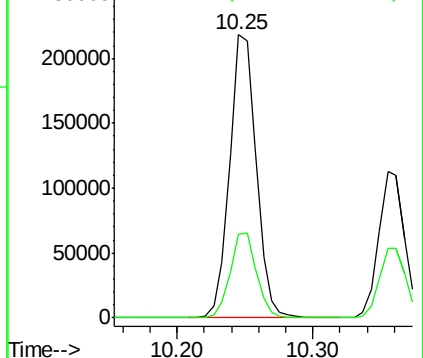


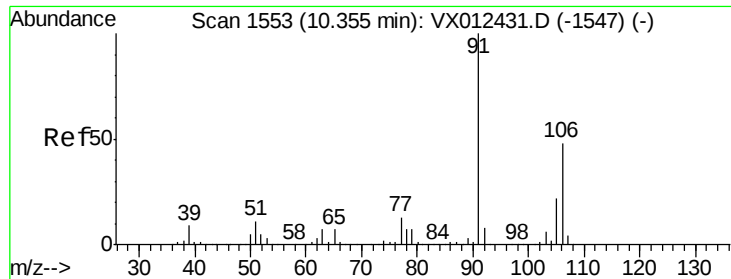
#67  
Ethyl Benzene  
Concen: 30.985 ug/l  
RT: 10.25 min Scan# 1535  
Delta R.T. 0.00 min  
Lab File: VX012615.D  
Acq: 23 Sep 2019 19:27

Tgt Ion: 91 Resp: 297340  
Ion Ratio Lower Upper  
91 100  
106 29.4 24.6 37.0



Abundance Ion 91.00 (90.70 to 91.70): VX0  
Ion 106.00 (105.70 to 106.70): V

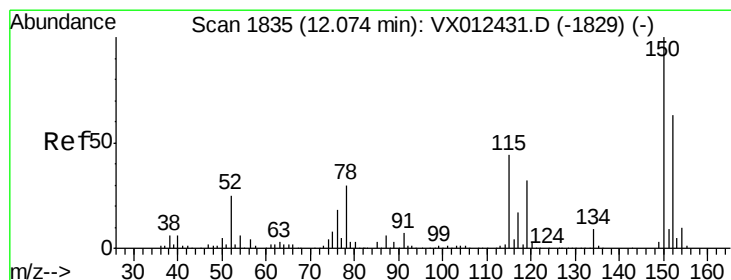
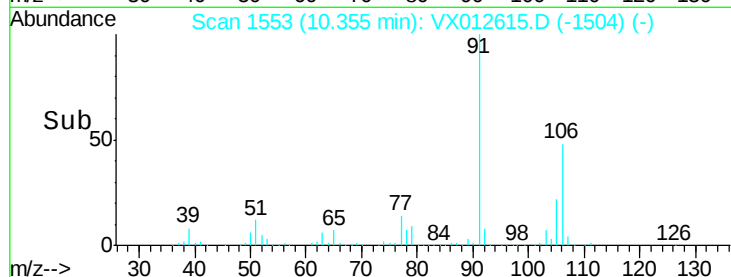
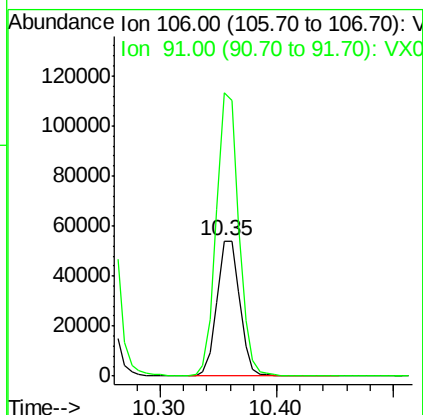
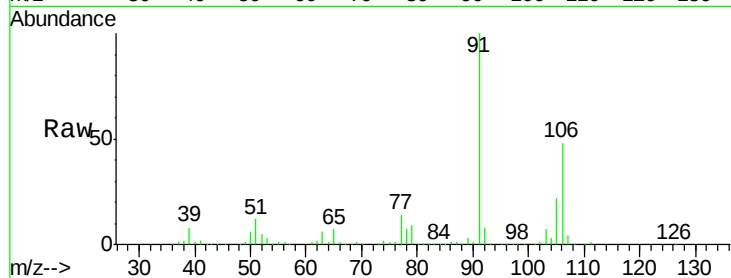




#68  
m/p-Xvlenes  
Concen: 20.380 ug/l  
RT: 10.35 min Scan# 1553  
Delta R.T. 0.00 min  
Lab File: VX012615.D  
Acq: 23 Sep 2019 19:27

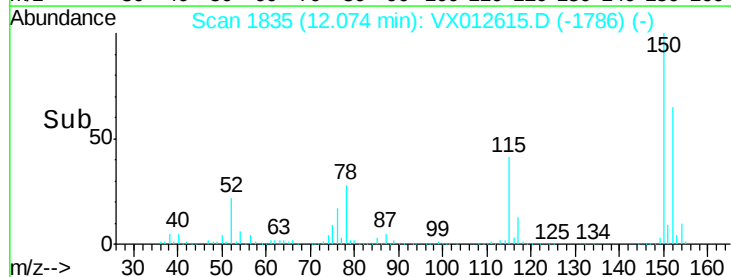
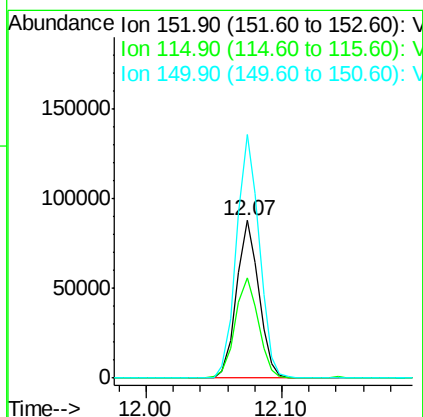
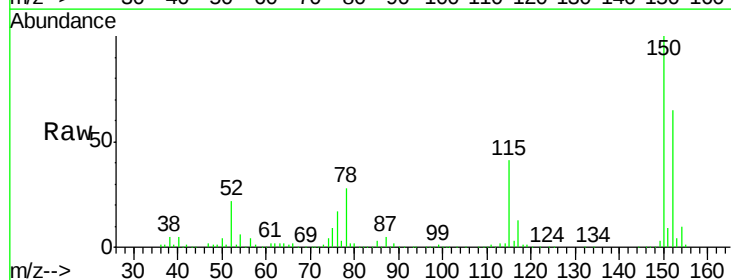
Instrument :  
MSVOA\_X  
ClientSampled :  
Z2-0163DL

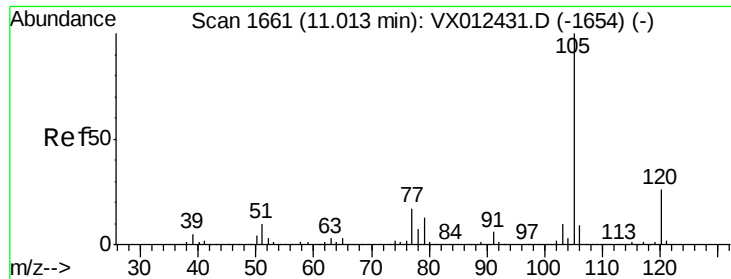
Tot Ion:106 Resp: 73259  
Ion Ratio Lower Upper  
106 100  
91 205.5 166.6 250.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX012615.D  
Acq: 23 Sep 2019 19:27

Tgt Ion:152 Resp: 100369  
Ion Ratio Lower Upper  
152 100  
115 66.0 44.1 132.3  
150 157.7 0.0 343.8





#73

Isopropylbenzene

Concen: 8.042 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VX012615.D

Acq: 23 Sep 2019 19:27

Instrument :

MSVOA\_X

ClientSampleId :

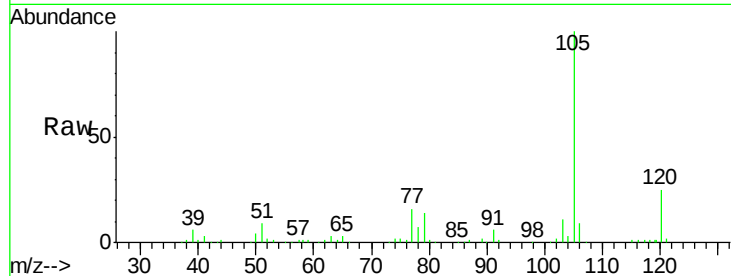
Z2-0163DL

Tot Ion: 105 Resp: 65742

Ion Ratio Lower Upper

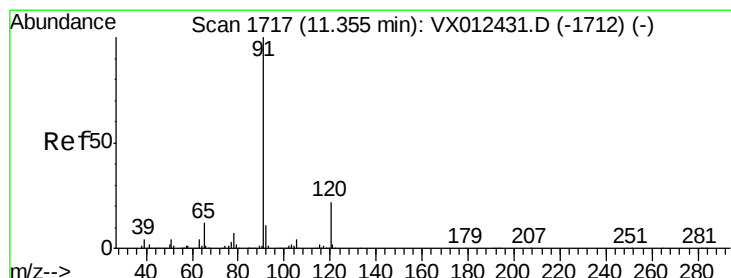
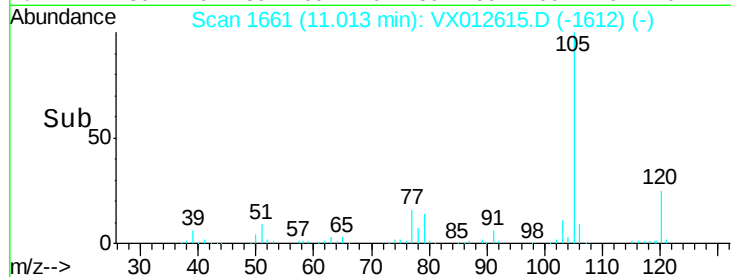
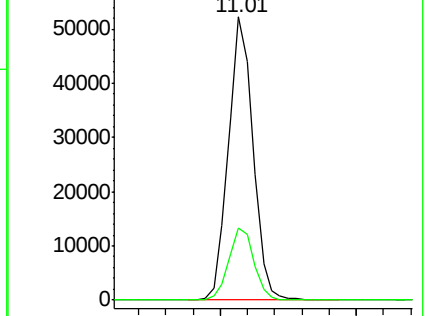
105 100

120 26.0 12.9 38.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 5.552 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX012615.D

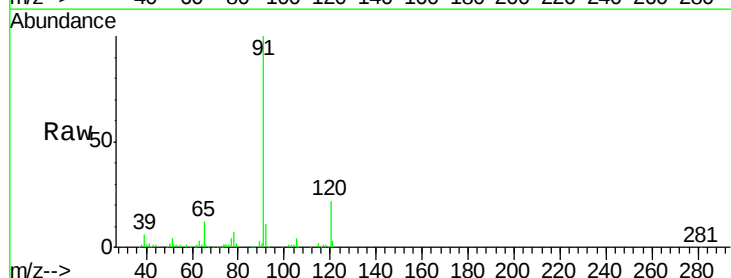
Acq: 23 Sep 2019 19:27

Tgt Ion: 91 Resp: 51093

Ion Ratio Lower Upper

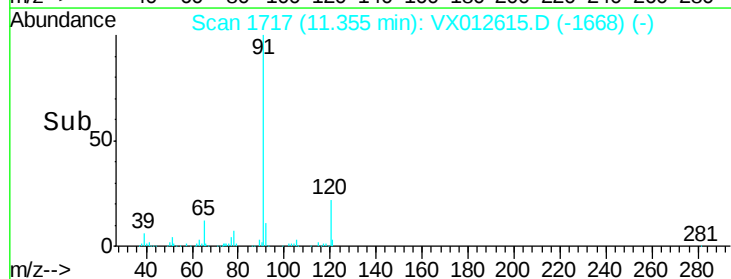
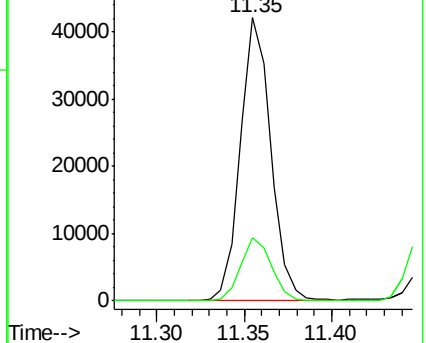
91 100

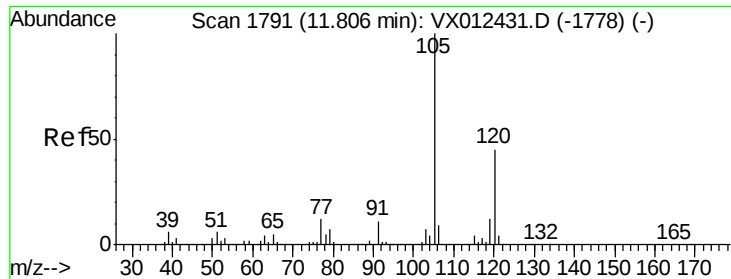
120 22.3 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

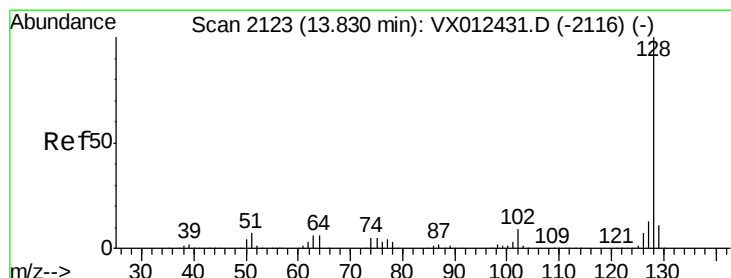
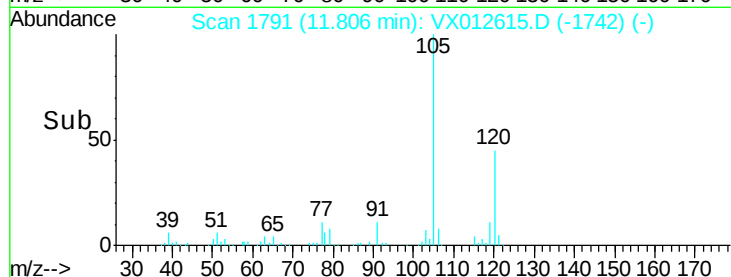
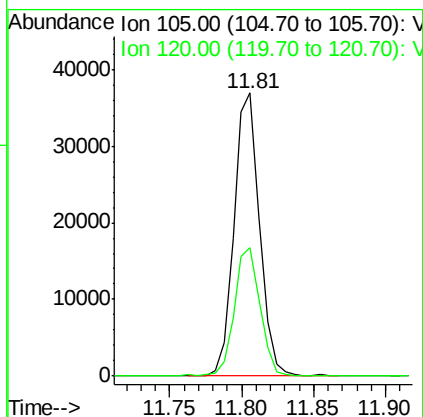
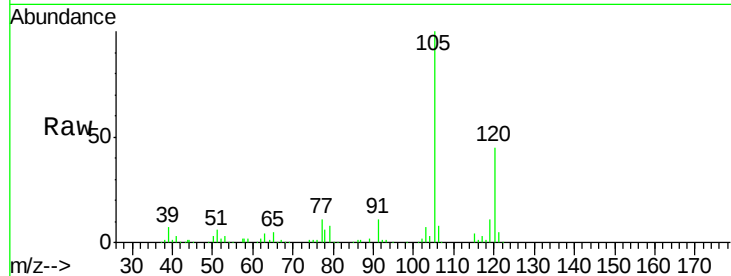




#84  
 1,2,4-Trimethylbenzene  
 Concen: 6.623 ug/l  
 RT: 11.81 min Scan# 1791  
 Delta R.T. 0.00 min  
 Lab File: VX012615.D  
 Acq: 23 Sep 2019 19:27

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z2-0163DL

Tot Ion:105 Resp: 45801  
 Ion Ratio Lower Upper  
 105 100  
 120 45.8 22.2 66.6



#95  
 Naphthalene  
 Concen: 6.496 ug/l  
 RT: 13.83 min Scan# 2123  
 Delta R.T. 0.00 min  
 Lab File: VX012615.D  
 Acq: 23 Sep 2019 19:27

Tgt Ion:128 Resp: 47781  
 Ion Ratio Lower Upper  
 128 100  
 127 12.6 10.2 15.4  
 129 11.5 8.8 13.2

