

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080718\  
 Data File : VX003880.D  
 Acq On : 07 Aug 2018 14:46  
 Operator : JC/MD  
 Sample : J4344-03DL 10X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0533DL

Quant Time: Aug 08 03:36:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080618W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 07:45:48 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 307545   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 474516   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 445538   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 231500   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 210021   | 51.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.04% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 175170   | 48.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.46%  |          |
| 50) Toluene-d8              | 8.72  | 98   | 680708   | 48.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.38%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 247404   | 54.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.38% |          |

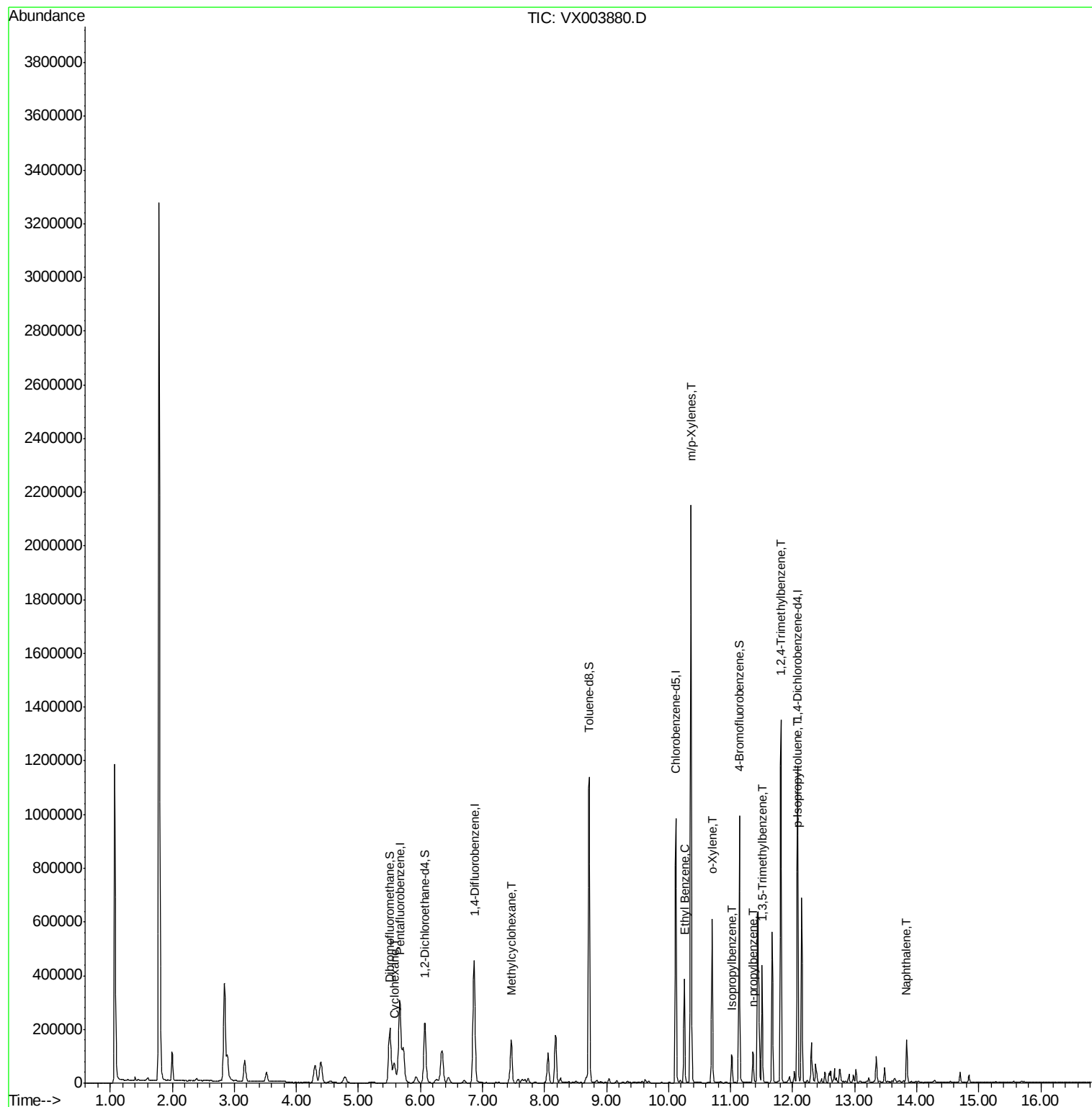
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 31) Cyclohexane            | 5.57  | 56   | 47333    | 8.06  | ug/l  | 93     |
| 39) Methylcyclohexane      | 7.46  | 83   | 65442    | 10.44 | ug/l  | 98     |
| 67) Ethyl Benzene          | 10.26 | 91   | 221028   | 11.65 | ug/l  | 99     |
| 68) m/p-Xylenes            | 10.36 | 106  | 492603   | 66.43 | ug/l  | 97     |
| 69) o-Xylene               | 10.70 | 106  | 132345   | 18.91 | ug/l  | 95     |
| 73) Isopropylbenzene       | 11.02 | 105  | 54836    | 3.20  | ug/l  | 96     |
| 78) n-propylbenzene        | 11.36 | 91   | 67319    | 3.50  | ug/l  | 99     |
| 80) 1,3,5-Trimethylbenzene | 11.51 | 105  | 190746   | 13.66 | ug/l  | 99     |
| 84) 1,2,4-Trimethylbenzene | 11.81 | 105  | 570745   | 40.65 | ug/l  | 99     |
| 86) p-Isopropyltoluene     | 12.07 | 119  | 11958    | 0.82  | ug/l  | 93     |
| 95) Naphthalene            | 13.83 | 128  | 104939   | 6.09  | ug/l  | 100    |

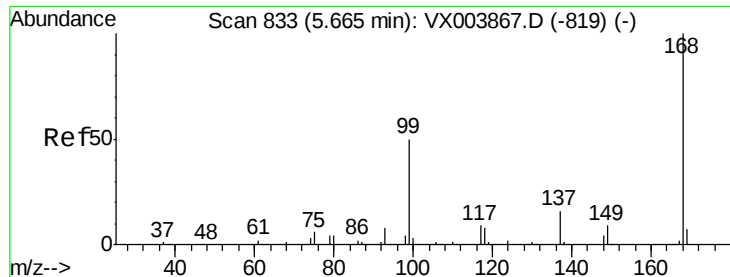
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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FL-0533DL

Quant Time: Aug 08 03:36:16 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X080618W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 07 07:45:48 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003880.D

Acq: 07 Aug 2018 14:46

Instrument :

MSVOA\_X

ClientSampleId :

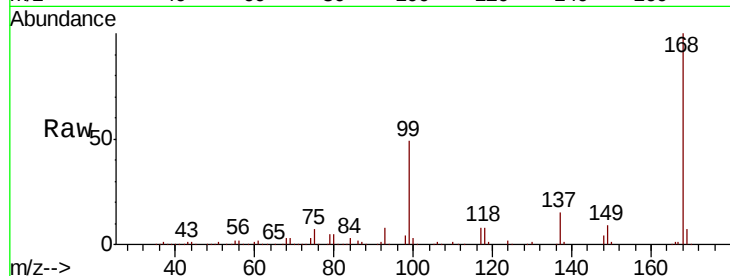
FL-0533DL

Tot Ion:168 Resp: 307545

Ion Ratio Lower Upper

168 100

99 49.4 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

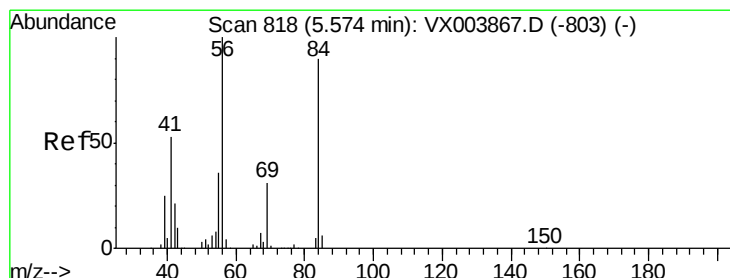
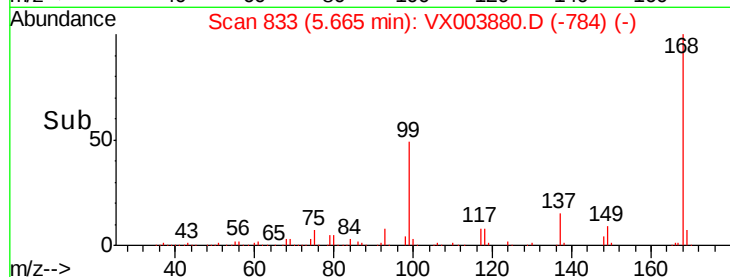
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#31

Cyclohexane

Concen: 8.06 ug/l

RT: 5.57 min Scan# 818

Delta R.T. 0.00 min

Lab File: VX003880.D

Acq: 07 Aug 2018 14:46

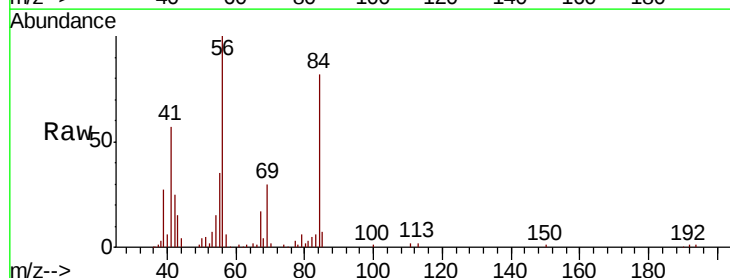
Tgt Ion: 56 Resp: 47333

Ion Ratio Lower Upper

56 100

69 29.4 24.9 37.3

84 81.8 71.7 107.5



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

20000

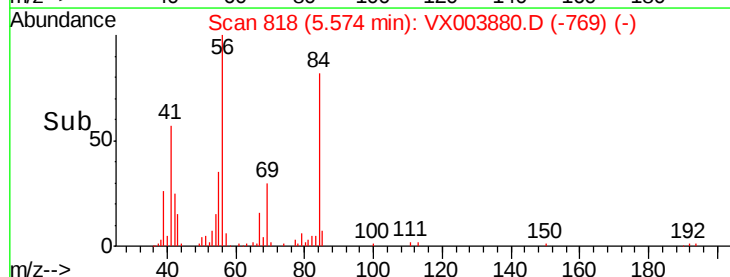
15000

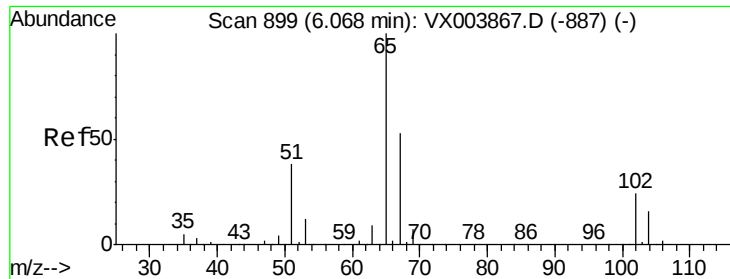
10000

5000

0

Time--> 5.50 5.55 5.60 5.65 5.70

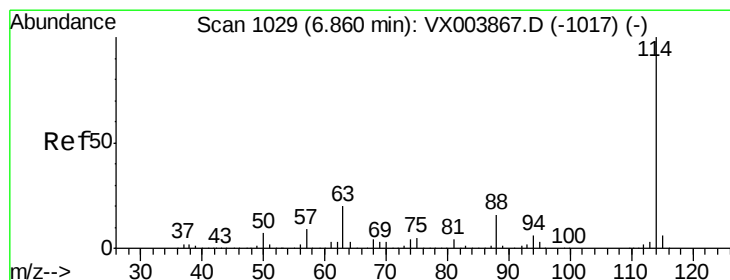
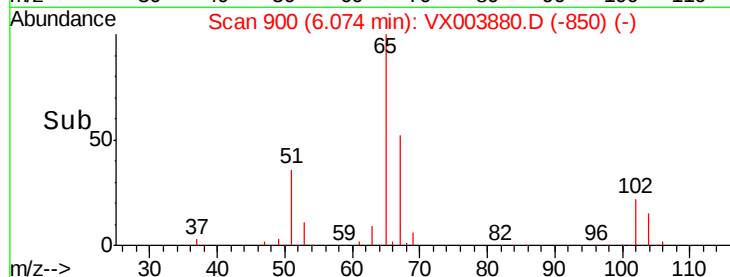
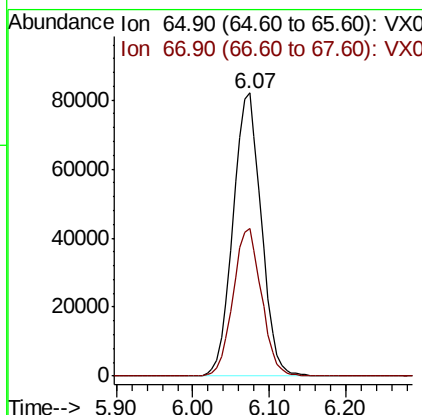
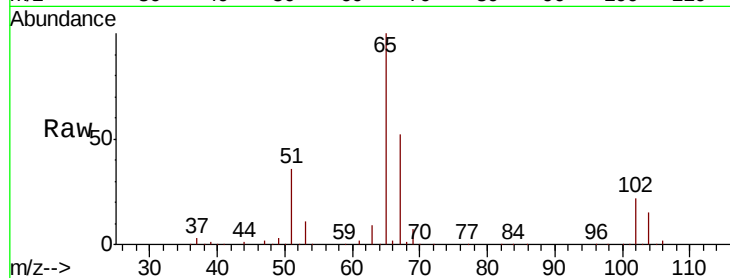




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.52 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. 0.01 min  
 Lab File: VX003880.D  
 Acq: 07 Aug 2018 14:46

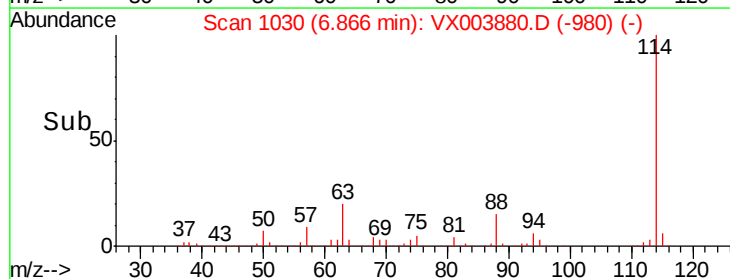
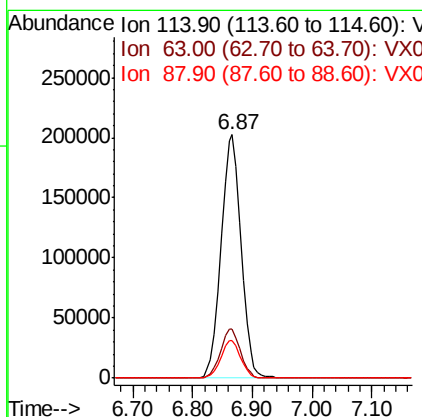
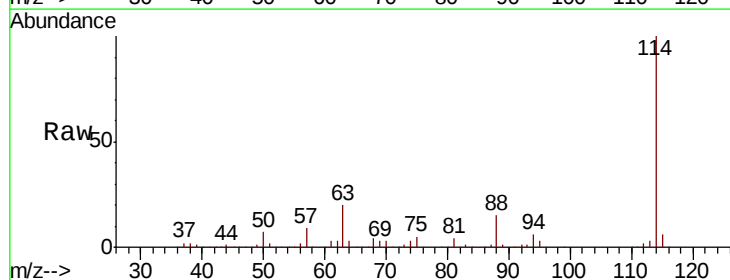
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0533DL

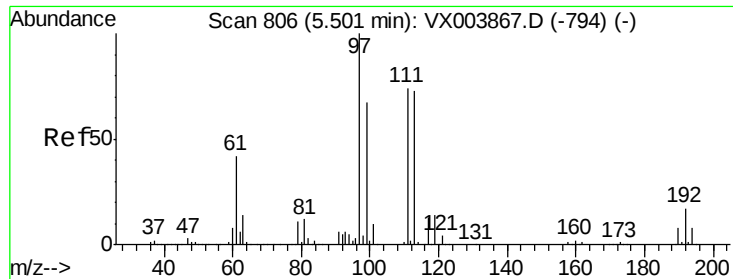
Tot Ion: 65 Resp: 210021  
 Ion Ratio Lower Upper  
 65 100  
 67 52.6 0.0 105.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.01 min  
 Lab File: VX003880.D  
 Acq: 07 Aug 2018 14:46

Tgt Ion: 114 Resp: 474516  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 39.0  
 88 15.2 0.0 32.0

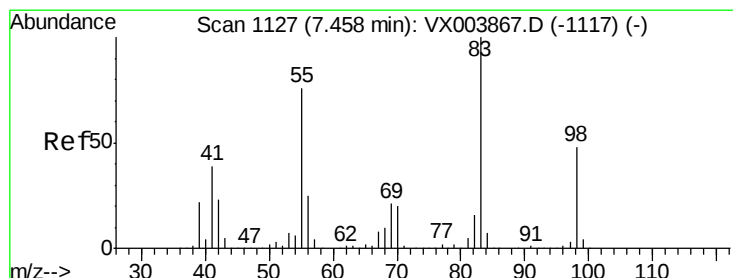
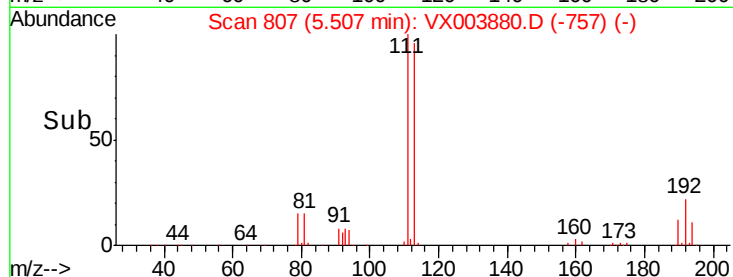
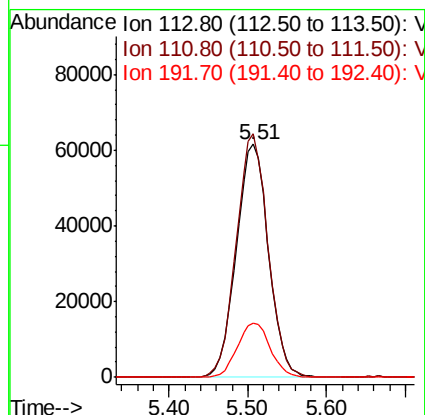
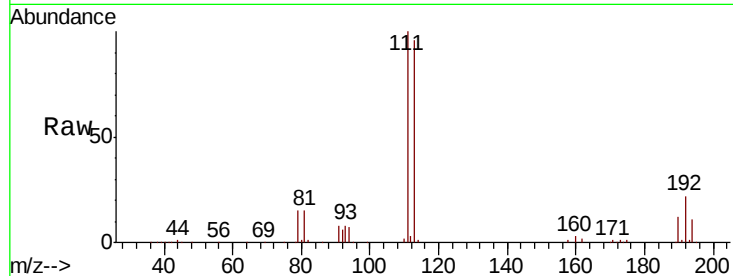




#35  
 Dibromofluoromethane  
 Concen: 48.73 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. 0.01 min  
 Lab File: VX003880.D  
 Acq: 07 Aug 2018 14:46

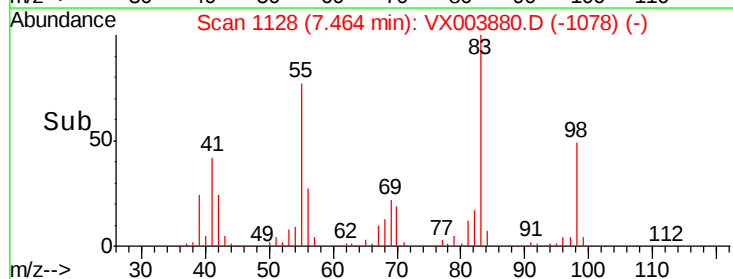
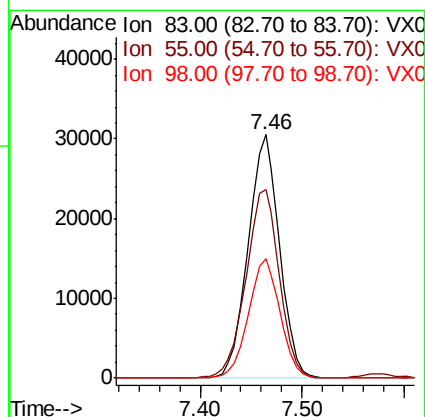
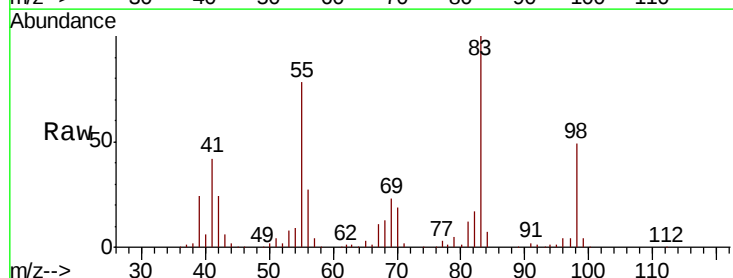
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0533DL

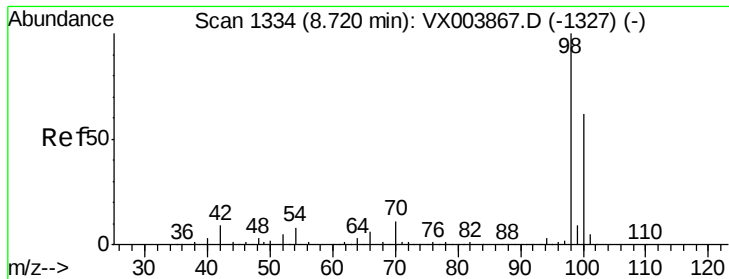
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.7 | 82.0  | 123.0 |
| 192     | 23.8  | 19.0  | 28.4  |



#39  
 Methylcyclohexane  
 Concen: 10.44 ug/l  
 RT: 7.46 min Scan# 1128  
 Delta R.T. 0.01 min  
 Lab File: VX003880.D  
 Acq: 07 Aug 2018 14:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 77.6  | 61.0  | 91.6  |
| 98      | 49.3  | 38.6  | 57.8  |

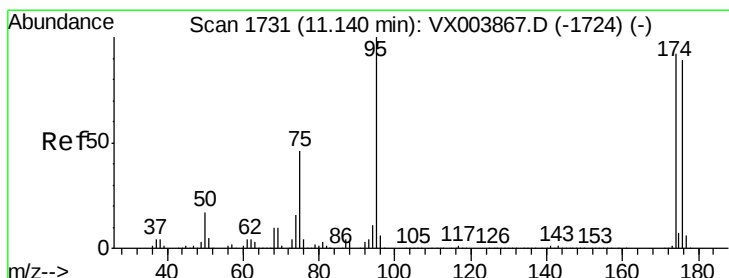
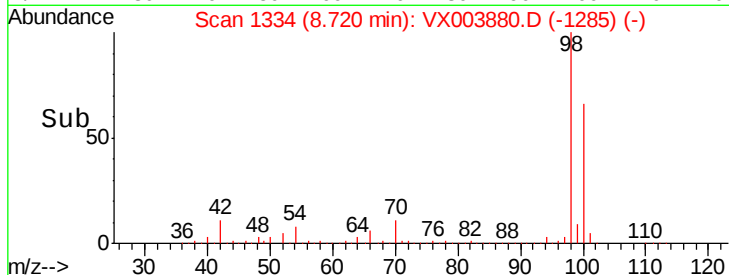
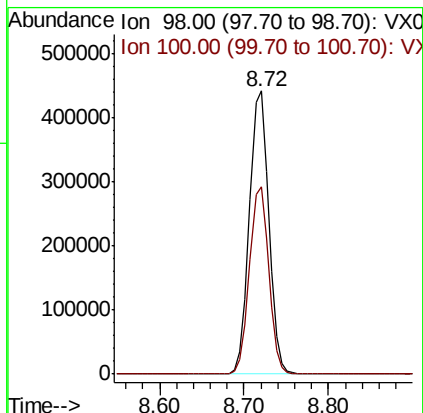
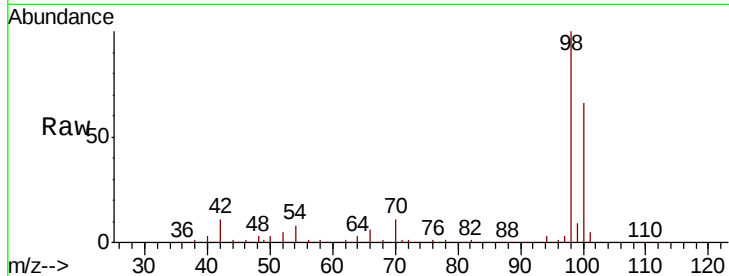




#50  
Toluene-d8  
Concen: 48.69 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VX003880.D  
Acq: 07 Aug 2018 14:46

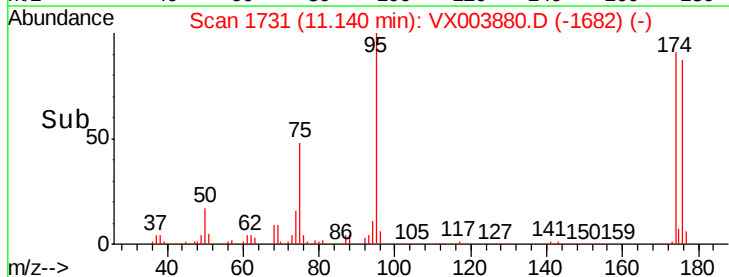
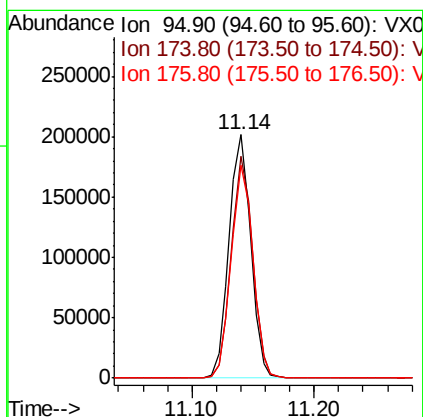
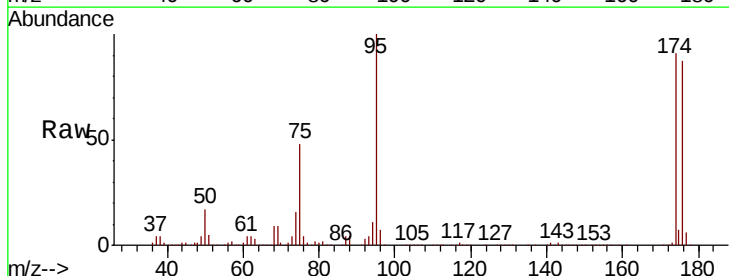
Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0533DL

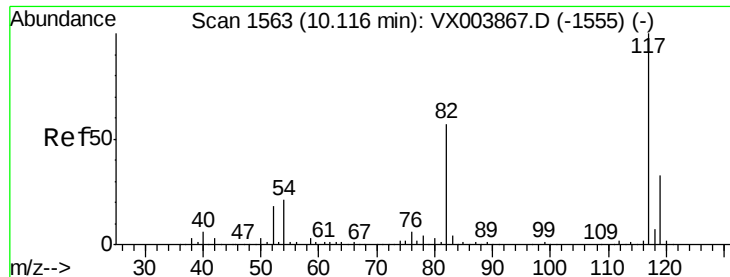
Tot Ion: 98 Resp: 680708  
Ion Ratio Lower Upper  
98 100  
100 66.1 53.3 79.9



#62  
4-Bromofluorobenzene  
Concen: 54.69 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.00 min  
Lab File: VX003880.D  
Acq: 07 Aug 2018 14:46

Tgt Ion: 95 Resp: 247404  
Ion Ratio Lower Upper  
95 100  
174 89.9 0.0 182.8  
176 87.4 0.0 179.0

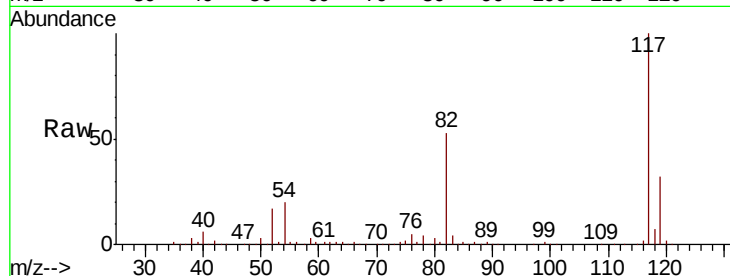




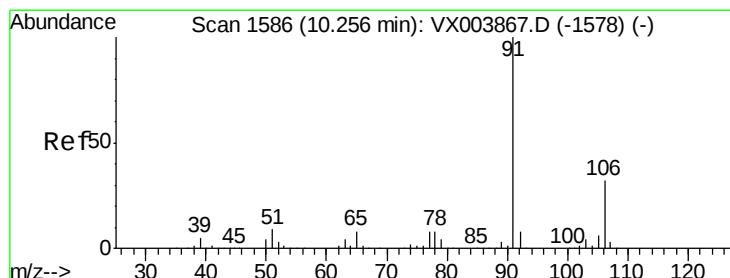
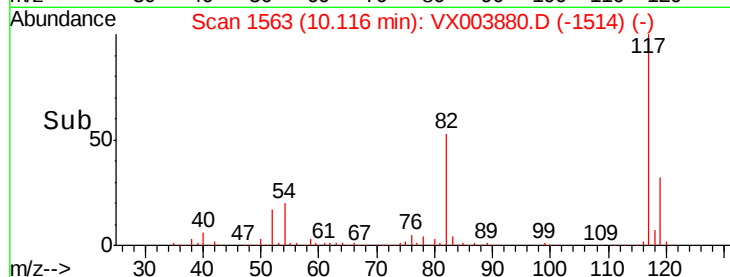
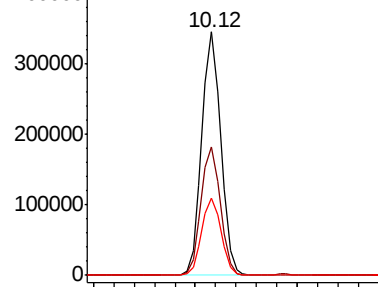
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. 0.00 min  
Lab File: VX003880.D  
Acq: 07 Aug 2018 14:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0533DL

Tot Ion:117 Resp: 445538  
Ion Ratio Lower Upper  
117 100  
82 52.9 45.4 68.0  
119 31.8 26.6 40.0

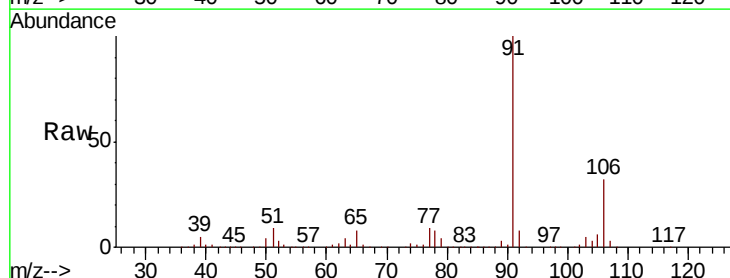


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

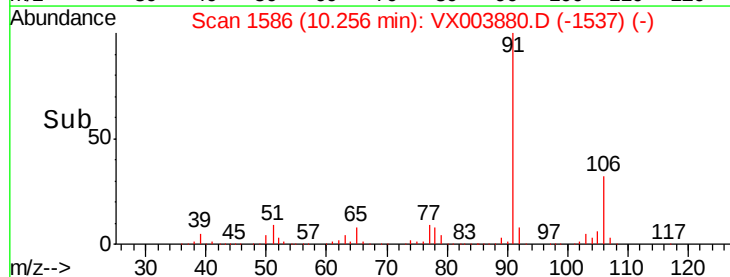
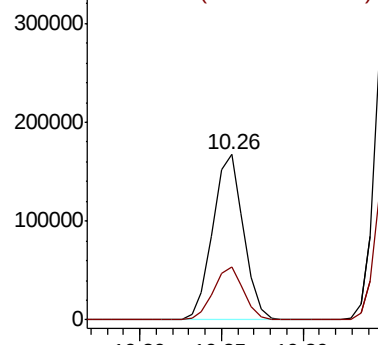


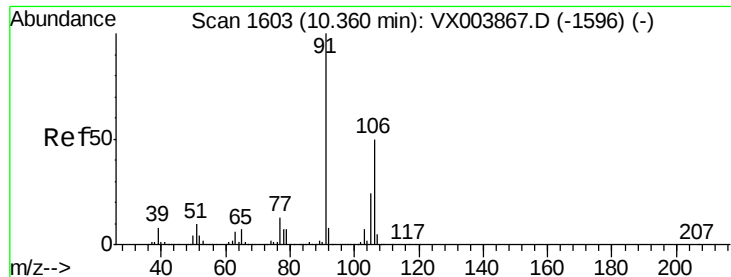
#67  
Ethyl Benzene  
Concen: 11.65 ug/l  
RT: 10.26 min Scan# 1586  
Delta R.T. 0.00 min  
Lab File: VX003880.D  
Acq: 07 Aug 2018 14:46

Tgt Ion: 91 Resp: 221028  
Ion Ratio Lower Upper  
91 100  
106 32.1 25.9 38.9



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

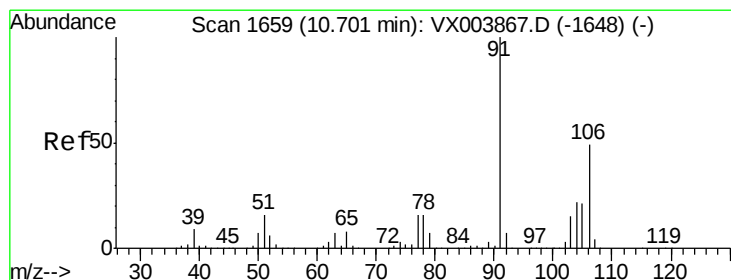
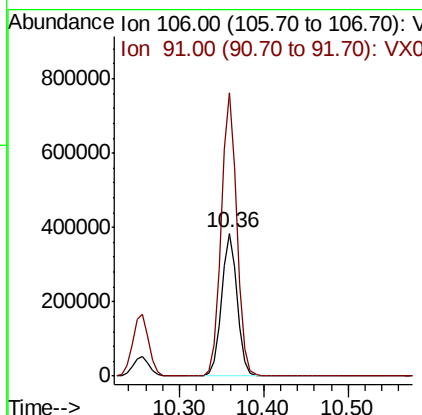
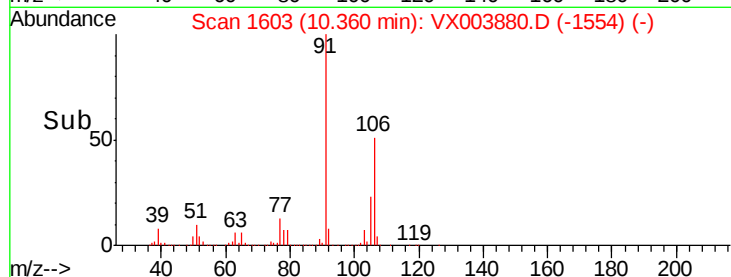
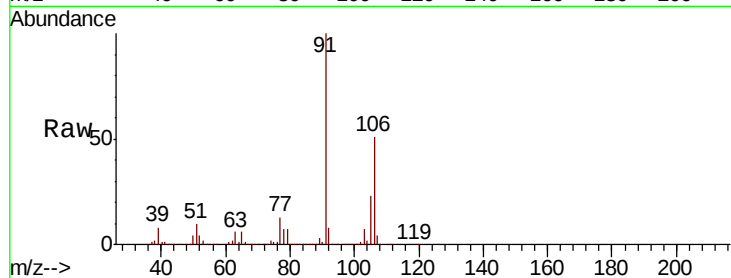




#68  
m/p-Xylenes  
Concen: 66.43 ug/l  
RT: 10.36 min Scan# 1603  
Delta R.T. 0.00 min  
Lab File: VX003880.D  
Acq: 07 Aug 2018 14:46

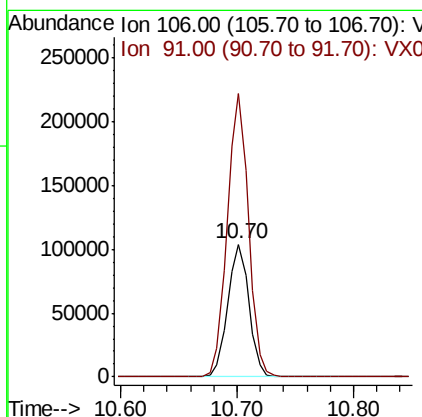
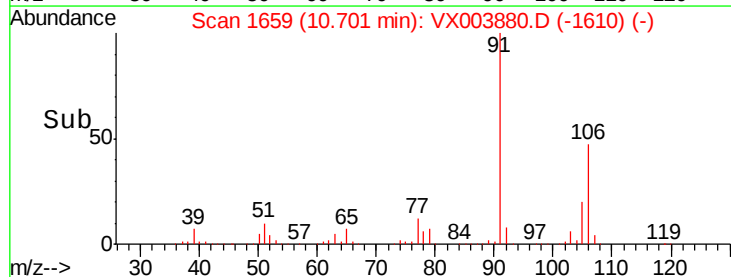
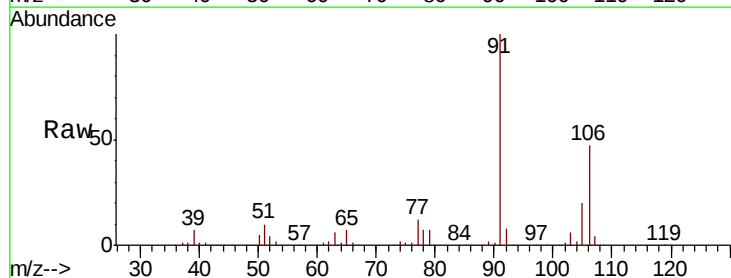
Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0533DL

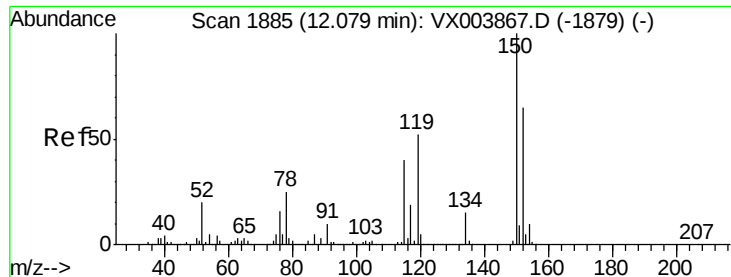
Tot Ion:106 Resp: 492603  
Ion Ratio Lower Upper  
106 100  
91 198.3 162.3 243.5



#69  
o-Xylene  
Concen: 18.91 ug/l  
RT: 10.70 min Scan# 1659  
Delta R.T. 0.00 min  
Lab File: VX003880.D  
Acq: 07 Aug 2018 14:46

Tgt Ion:106 Resp: 132345  
Ion Ratio Lower Upper  
106 100  
91 212.2 101.9 305.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003880.D

Acq: 07 Aug 2018 14:46

Instrument :

MSVOA\_X

ClientSampleId :

FL-0533DL

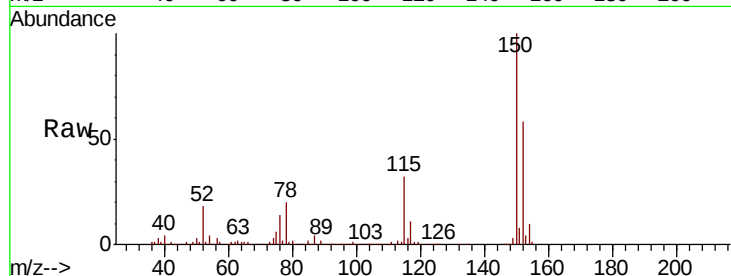
Tot Ion:152 Resp: 231500

Ion Ratio Lower Upper

152 100

115 55.2 39.1 117.3

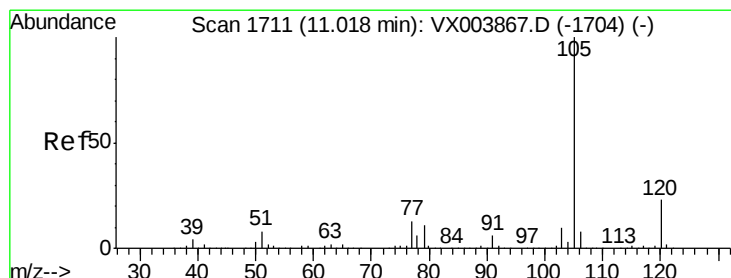
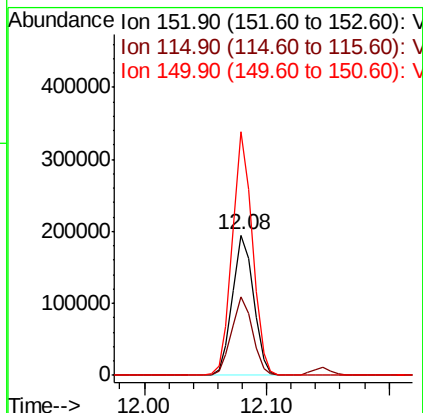
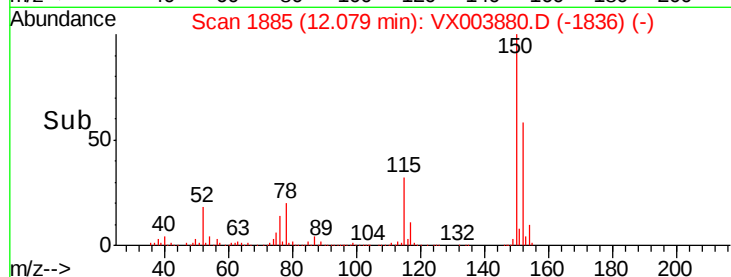
150 164.7 0.0 349.2



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: 3.20 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. 0.00 min

Lab File: VX003880.D

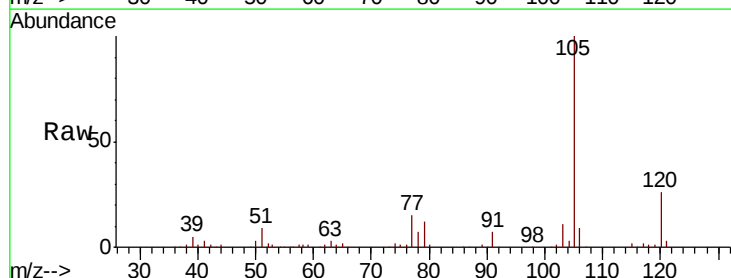
Acq: 07 Aug 2018 14:46

Tgt Ion:105 Resp: 54836

Ion Ratio Lower Upper

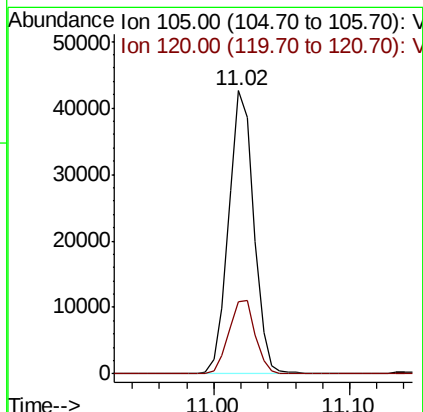
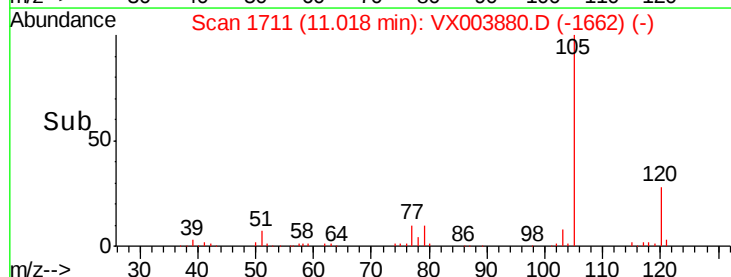
105 100

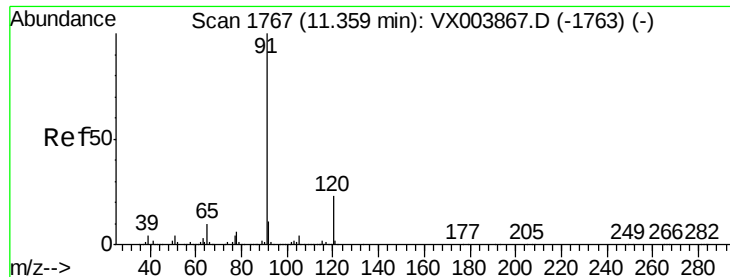
120 27.2 12.6 37.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 3.50 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. 0.00 min

Lab File: VX003880.D

Acq: 07 Aug 2018 14:46

Instrument :

MSVOA\_X

ClientSampleId :

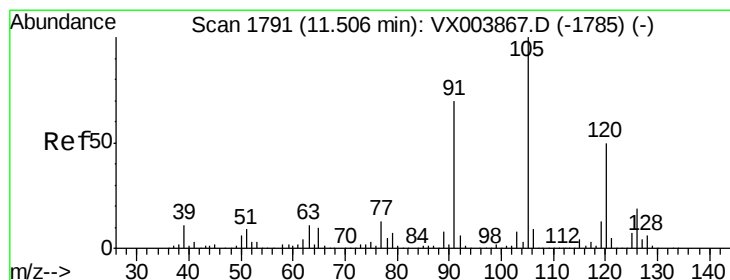
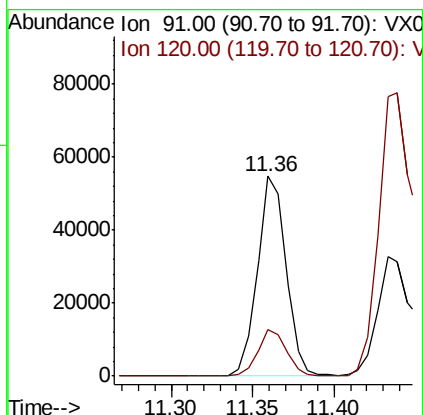
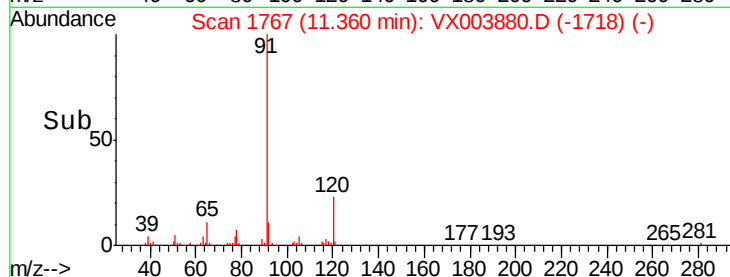
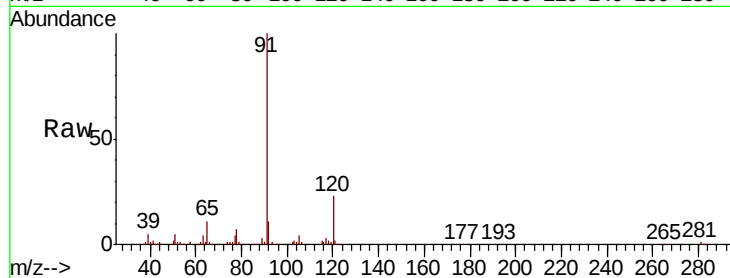
FL-0533DL

Tot Ion: 91 Resp: 67319

Ion Ratio Lower Upper

91 100

120 23.2 11.9 35.5



#80

1,3,5-Trimethylbenzene

Concen: 13.66 ug/l

RT: 11.51 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX003880.D

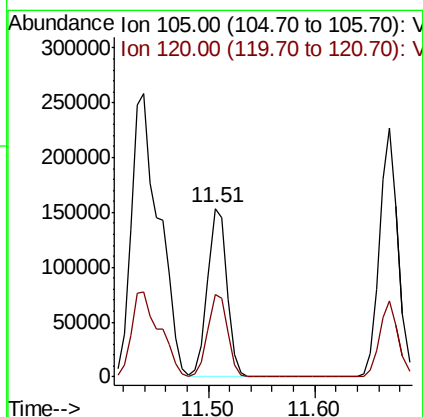
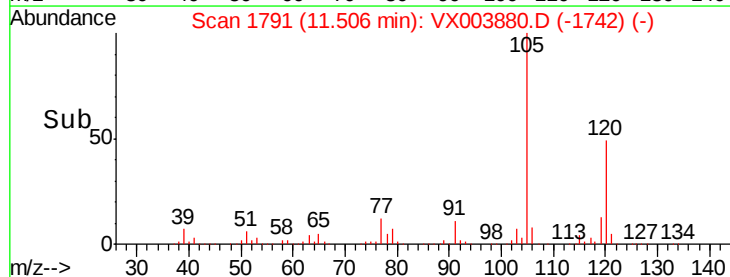
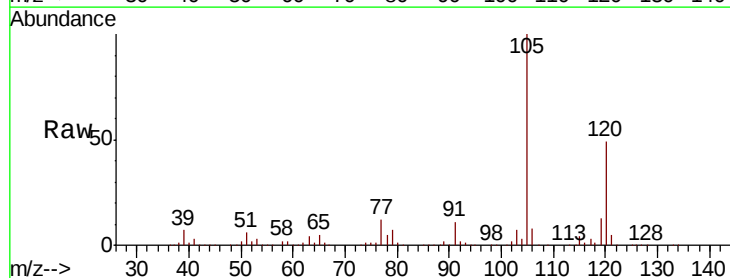
Acq: 07 Aug 2018 14:46

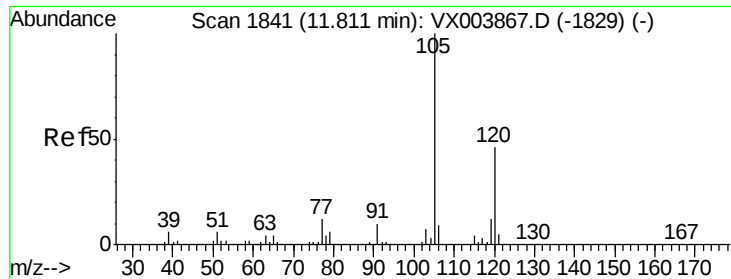
Tgt Ion: 105 Resp: 190746

Ion Ratio Lower Upper

105 100

120 50.2 25.4 76.2

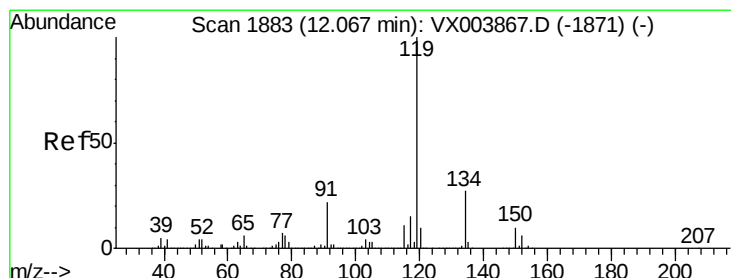
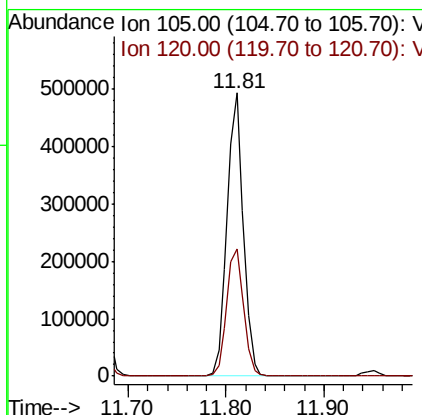
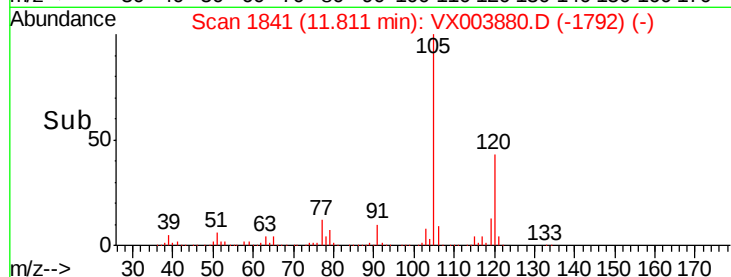
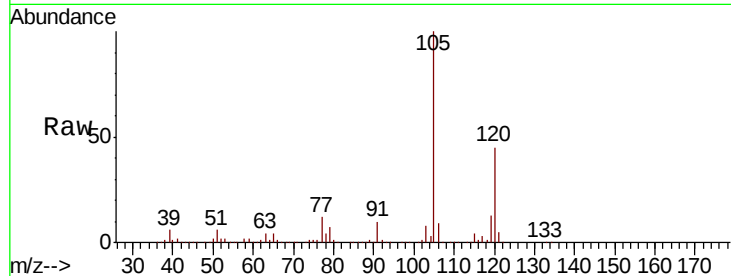




#84  
 1,2,4-Trimethylbenzene  
 Concen: 40.65 ug/l  
 RT: 11.81 min Scan# 1841  
 Delta R.T. 0.00 min  
 Lab File: VX003880.D  
 Acq: 07 Aug 2018 14:46

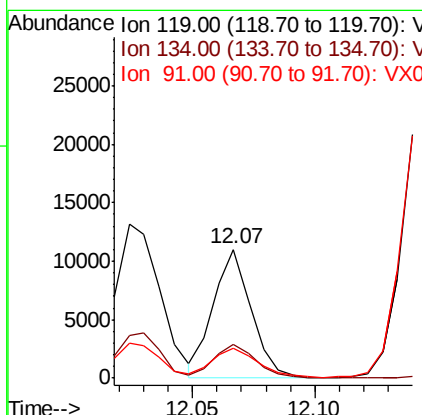
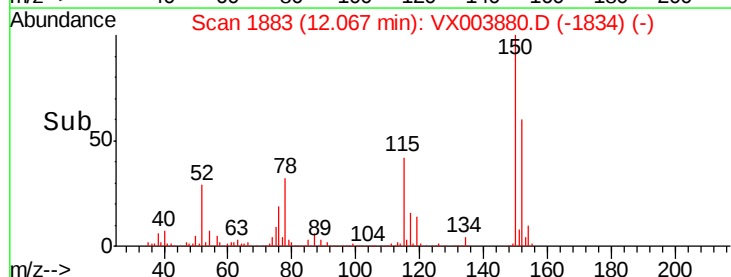
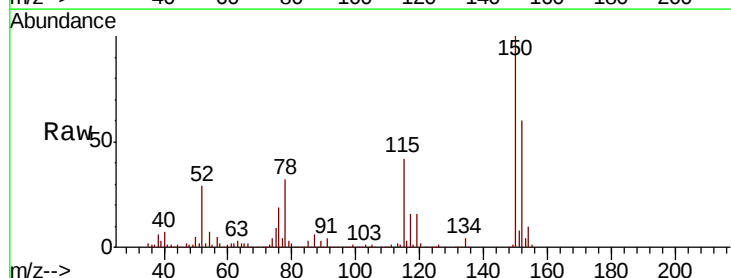
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 FL-0533DL

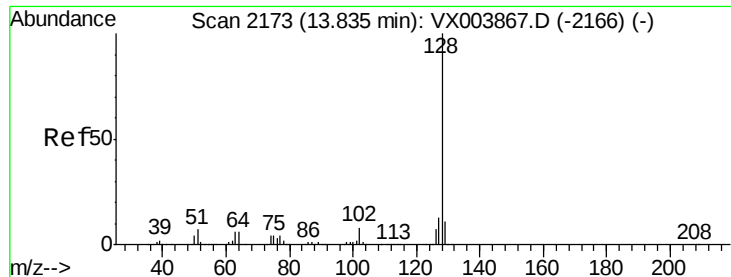
Tot Ion:105 Resp: 570745  
 Ion Ratio Lower Upper  
 105 100  
 120 46.9 23.1 69.2



#86  
 p-Isopropyltoluene  
 Concen: 0.82 ug/l  
 RT: 12.07 min Scan# 1883  
 Delta R.T. 0.00 min  
 Lab File: VX003880.D  
 Acq: 07 Aug 2018 14:46

Tgt Ion:119 Resp: 11958  
 Ion Ratio Lower Upper  
 119 100  
 134 28.6 13.3 39.8  
 91 27.2 10.9 32.7

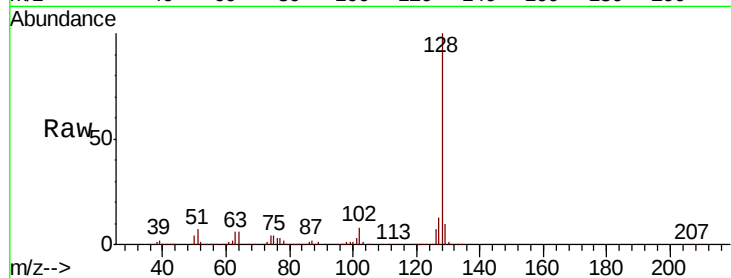




#95  
Naphthalene  
Concen: 6.09 ug/l  
RT: 13.83 min Scan# 2173  
Delta R.T. 0.00 min  
Lab File: VX003880.D  
Acq: 07 Aug 2018 14:46

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0533DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.7  | 10.2  | 15.2  |
| 129     | 10.9  | 8.8   | 13.2  |



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

