

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091619\  
 Data File : VX012414.D  
 Acq On : 16 Sep 2019 18:42  
 Operator : JC/SP  
 Sample : K4830-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S13-0276

Quant Time: Sep 17 05:20:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091619W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 17 04:36:38 2019  
 Response via : Initial Calibration

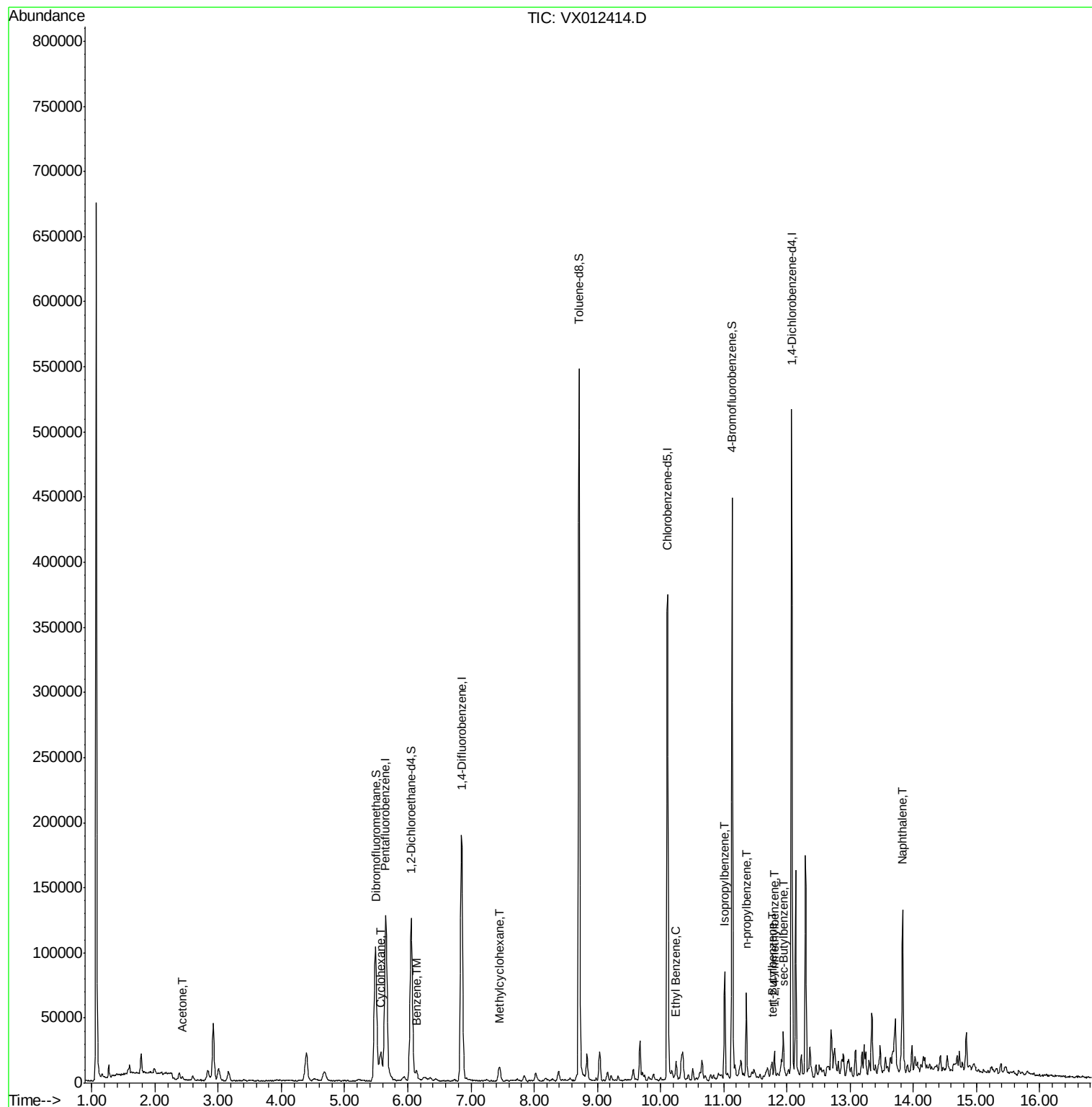
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 5.65  | 168  | 111855   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.85  | 114  | 181559   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.11 | 117  | 167336   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.07 | 152  | 94072    | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 122860   | 53.61 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 107.22% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 87539    | 49.77 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 99.54%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 316020   | 50.64 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.28% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 125477   | 47.79 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.58%  |          |
| Target Compounds            |       |      |          |       |         |          |
|                             |       |      |          |       | Qvalue  |          |
| 16) Acetone                 | 2.43  | 43   | 2386     | 2.318 | ug/l #  | 82       |
| 31) Cyclohexane             | 5.57  | 56   | 15248    | 9.684 | ug/l    | 98       |
| 39) Methylcyclohexane       | 7.46  | 83   | 3793     | 2.354 | ug/l #  | 83       |
| 40) Benzene                 | 6.13  | 78   | 8564     | 1.657 | ug/l    | 100      |
| 67) Ethyl Benzene           | 10.25 | 91   | 7106     | 1.066 | ug/l    | 94       |
| 73) Isopropylbenzene        | 11.01 | 105  | 42048    | 6.434 | ug/l    | 98       |
| 78) n-propylbenzene         | 11.35 | 91   | 37505    | 5.078 | ug/l    | 100      |
| 83) tert-Butylbenzene       | 11.76 | 119  | 3449     | 0.571 | ug/l    | 74       |
| 84) 1,2,4-Trimethylbenzene  | 11.80 | 105  | 8213     | 1.422 | ug/l    | 100      |
| 85) sec-Butylbenzene        | 11.94 | 105  | 15726    | 2.356 | ug/l    | 84       |
| 95) Naphthalene             | 13.83 | 128  | 71148    | 9.222 | ug/l    | 96       |

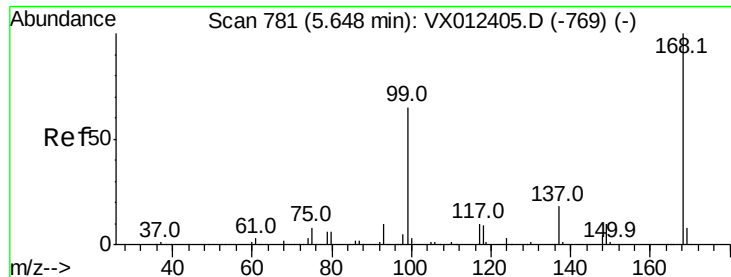
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Sep 17 04:36:38 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: VX012414.D

Acq: 16 Sep 2019 18:42

Instrument :

MSVOA\_X

ClientSampleId :

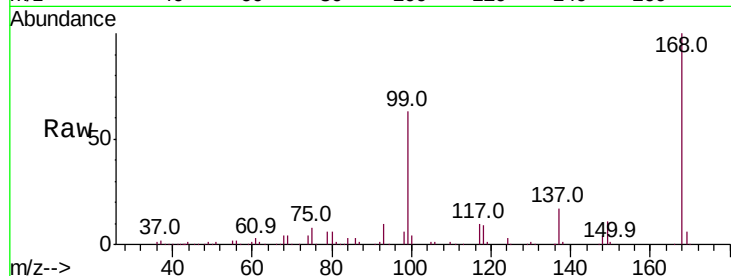
S13-0276

Tot Ion:168 Resp: 111855

Ion Ratio Lower Upper

168 100

99 63.2 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

5.65

40000

30000

20000

10000

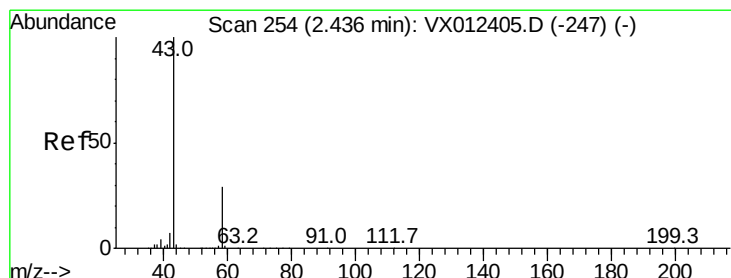
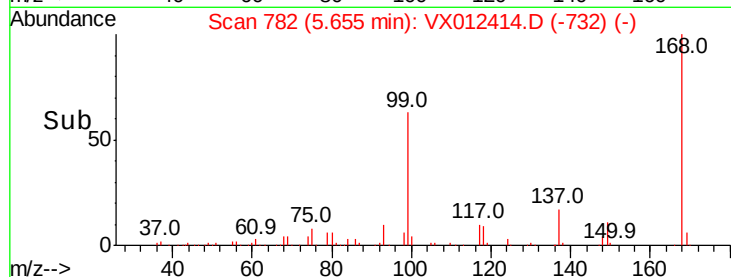
0

Time-->

5.50

5.60

5.70



#16

Acetone

Concen: 2.318 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012414.D

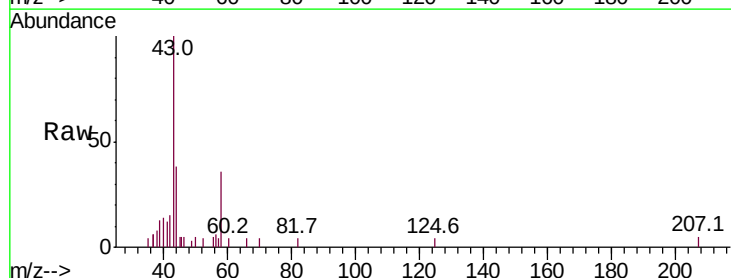
Acq: 16 Sep 2019 18:42

Tgt Ion: 43 Resp: 2386

Ion Ratio Lower Upper

43 100

58 39.1 23.5 35.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

1500

1000

500

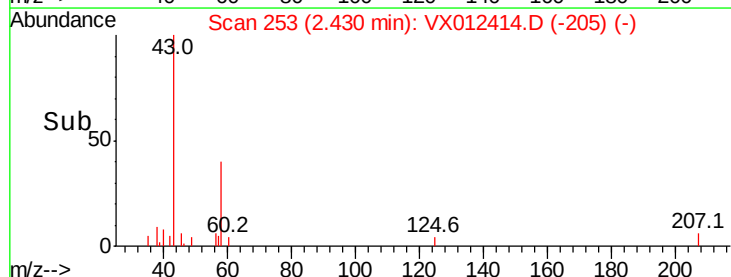
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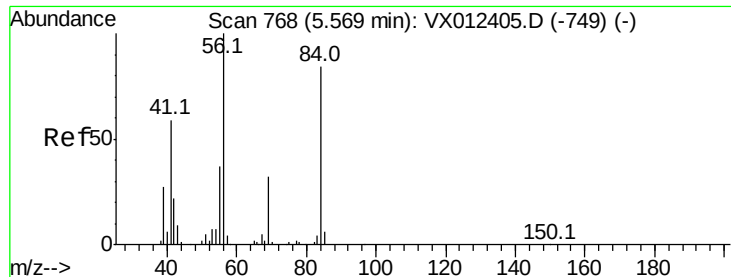
Time-->

2.40

2.45

2.50

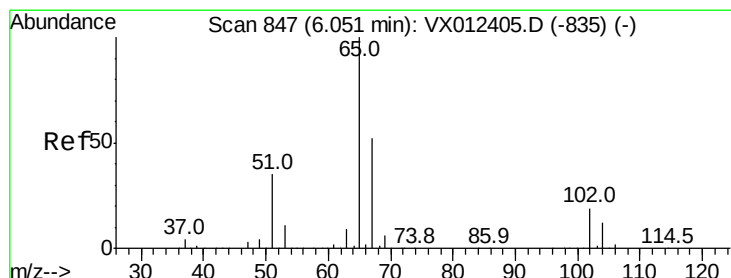
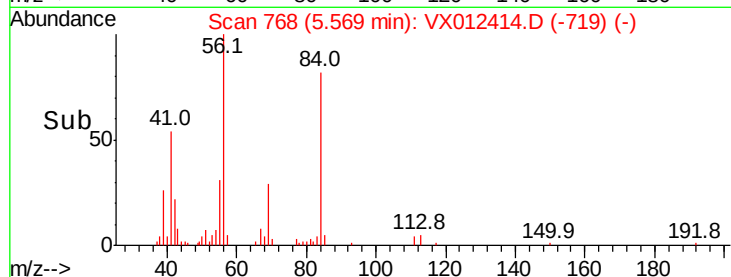
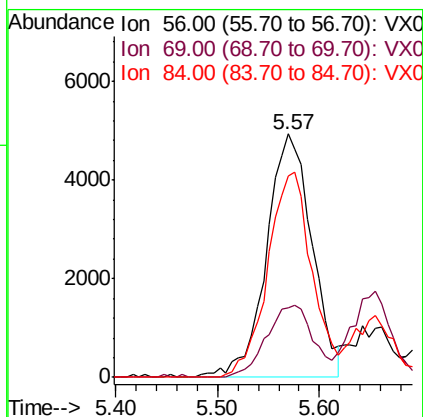
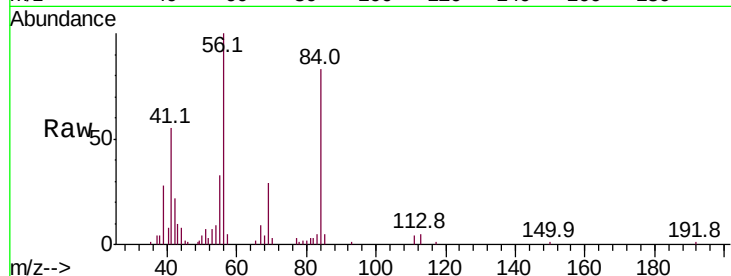




#31  
Cyclohexane  
Concen: 9.684 ug/l  
RT: 5.57 min Scan# 768  
Delta R.T. 0.00 min  
Lab File: VX012414.D  
Acq: 16 Sep 2019 18:42

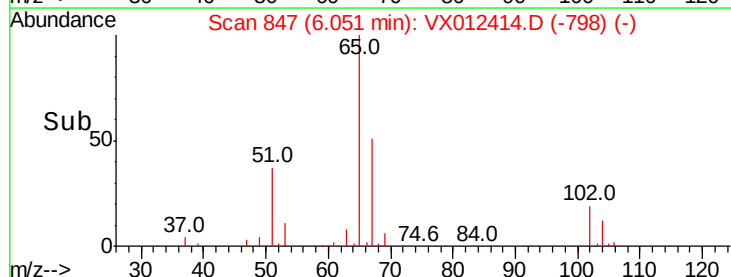
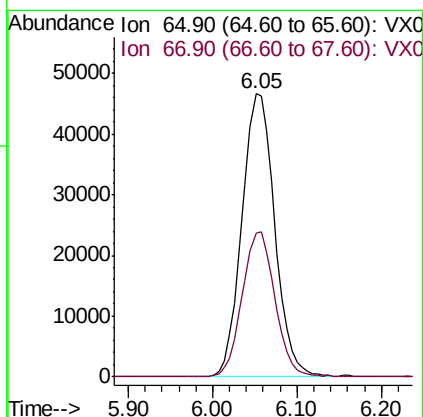
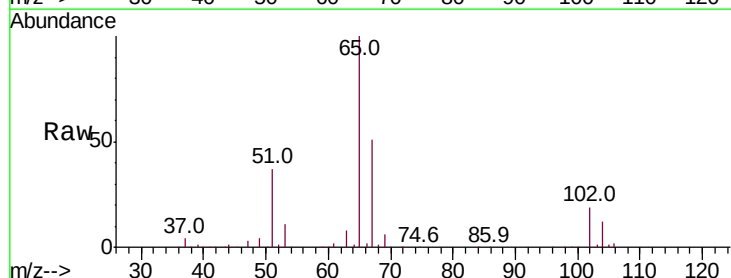
Instrument :  
MSVOA\_X  
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S13-0276

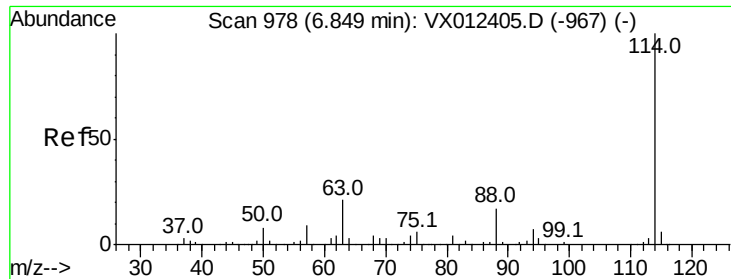
Tot Ion: 56 Resp: 15248  
Ion Ratio Lower Upper  
56 100  
69 28.6 24.9 37.3  
84 82.8 67.2 100.8



#33  
1,2-Dichloroethane-d4  
Concen: 53.605 ug/l  
RT: 6.05 min Scan# 847  
Delta R.T. 0.00 min  
Lab File: VX012414.D  
Acq: 16 Sep 2019 18:42

Tgt Ion: 65 Resp: 122860  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 102.8

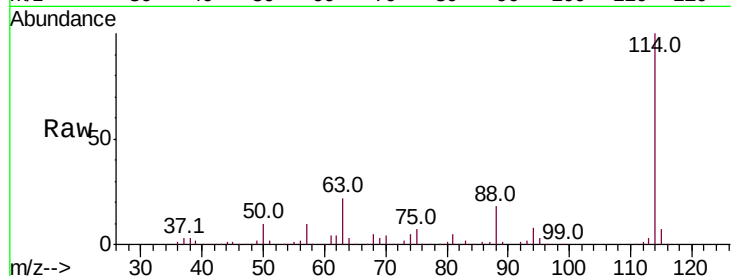




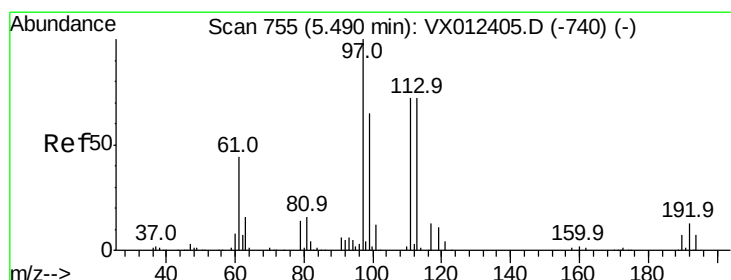
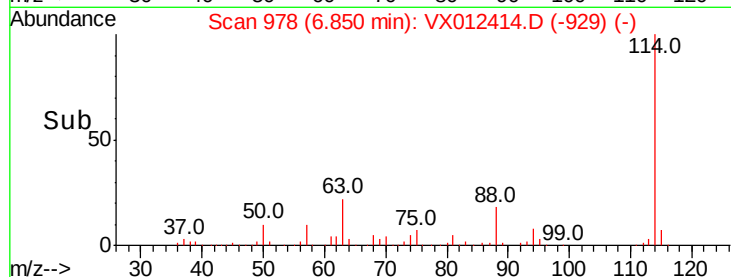
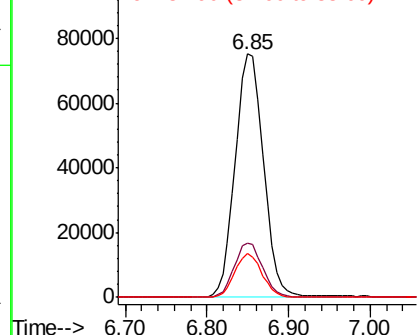
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX012414.D  
 Acq: 16 Sep 2019 18:42

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S13-0276

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.5  | 0.0   | 42.4  |
| 88      | 18.0  | 0.0   | 33.4  |

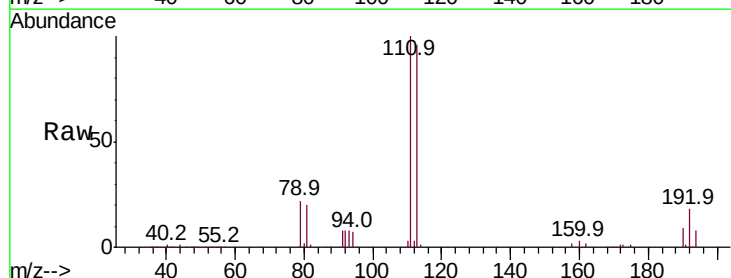


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

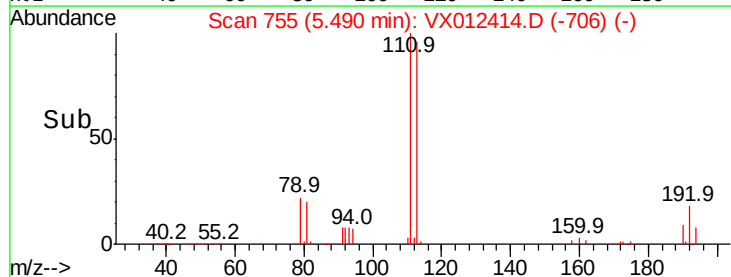
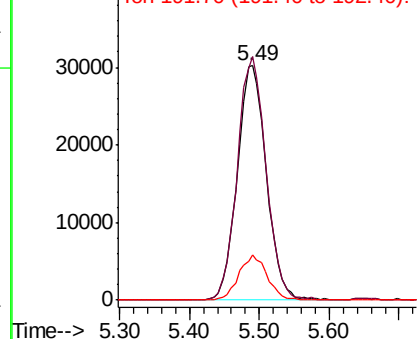


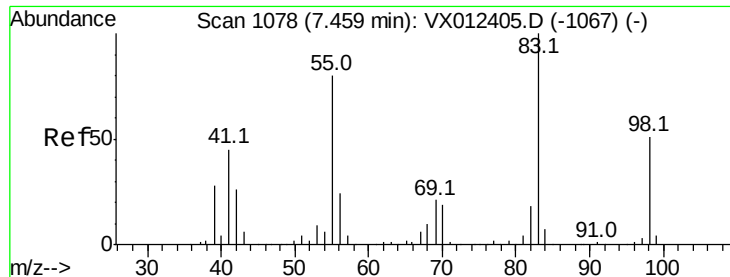
#35  
 Dibromofluoromethane  
 Concen: 49.774 ug/l  
 RT: 5.49 min Scan# 755  
 Delta R.T. 0.00 min  
 Lab File: VX012414.D  
 Acq: 16 Sep 2019 18:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.4 | 81.8  | 122.6 |
| 192     | 18.6  | 15.0  | 22.4  |



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

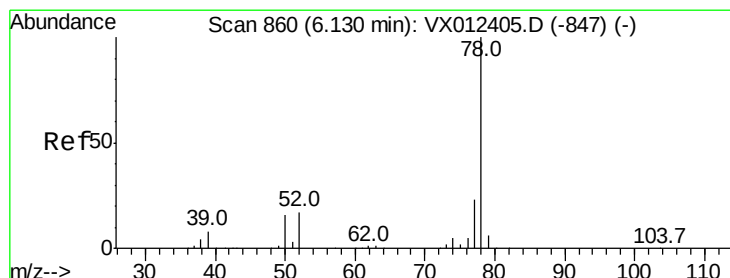
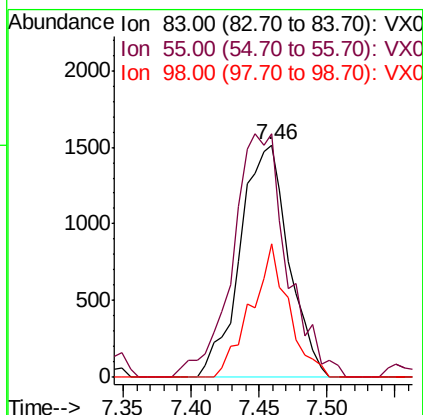
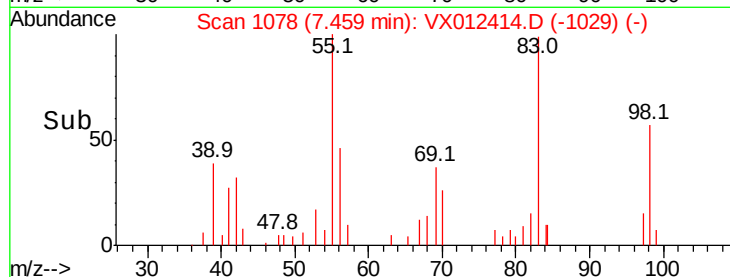
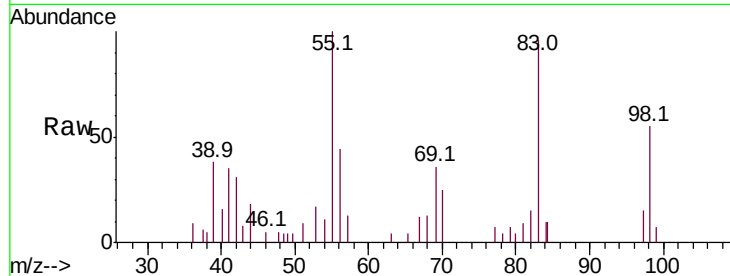




#39  
Methylvlcyclohexane  
Concen: 2.354 ug/l  
RT: 7.46 min Scan# 1078  
Delta R.T. 0.00 min  
Lab File: VX012414.D  
Acq: 16 Sep 2019 18:42

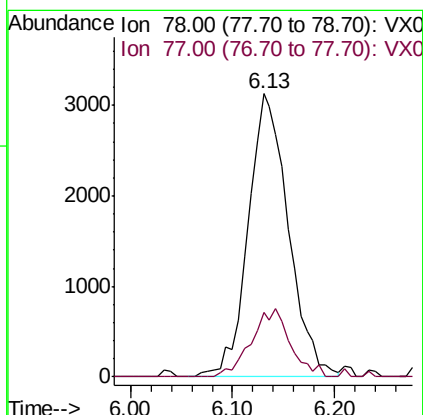
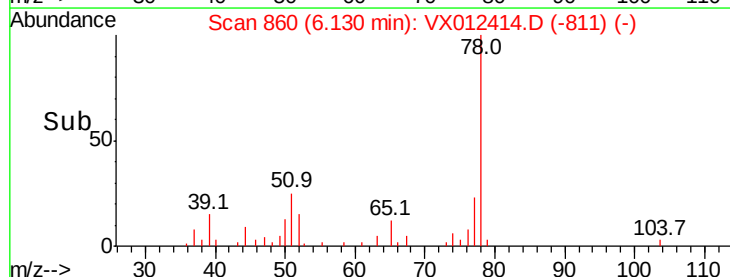
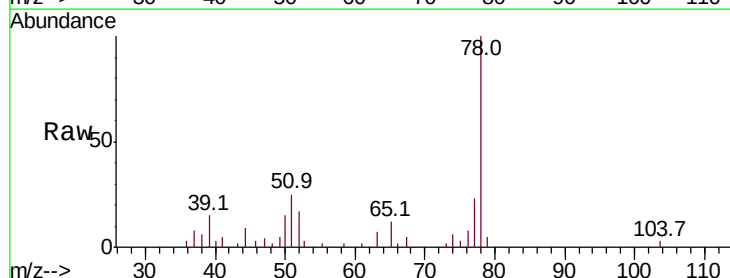
Instrument :  
MSVOA\_X  
ClientSampleId :  
S13-0276

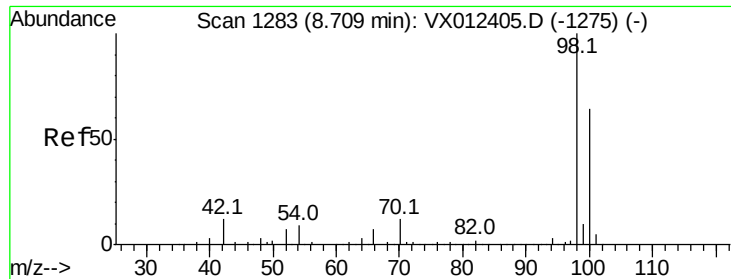
Tot Ion: 83 Resp: 3793  
Ion Ratio Lower Upper  
83 100  
55 99.4 63.8 95.6#  
98 57.5 40.6 61.0



#40  
Benzene  
Concen: 1.657 ug/l  
RT: 6.13 min Scan# 860  
Delta R.T. 0.00 min  
Lab File: VX012414.D  
Acq: 16 Sep 2019 18:42

Tgt Ion: 78 Resp: 8564  
Ion Ratio Lower Upper  
78 100  
77 22.6 18.2 27.2

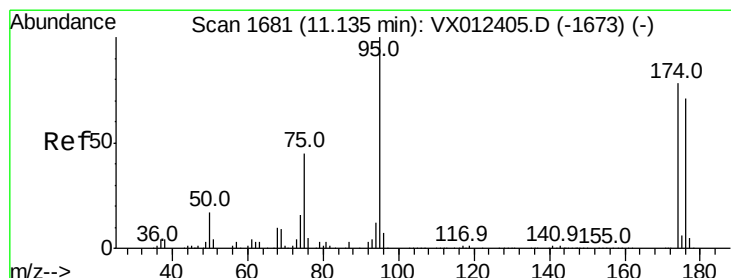
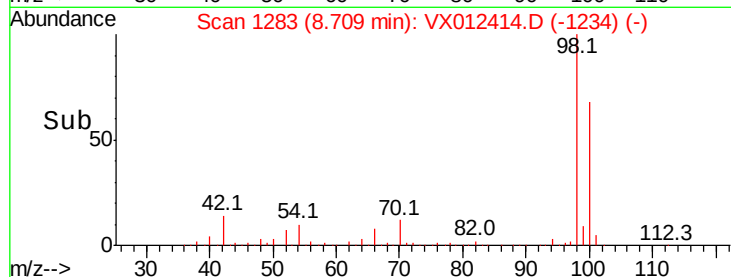
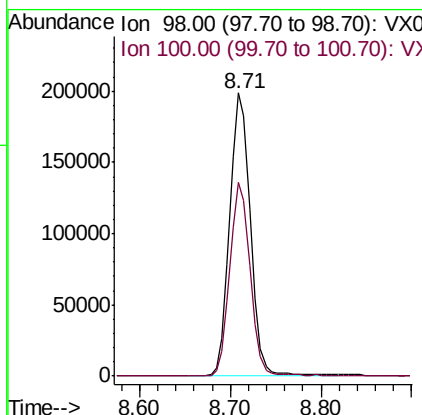
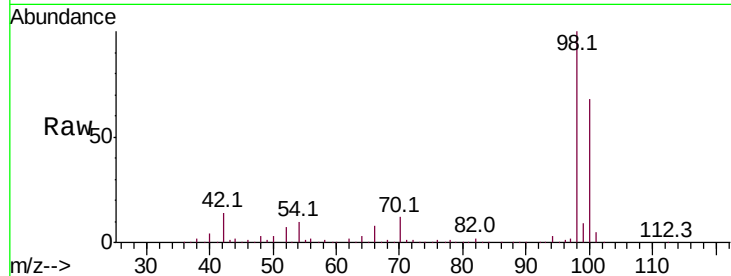




#50  
Toluene-d8  
Concen: 50.636 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX012414.D  
Acq: 16 Sep 2019 18:42

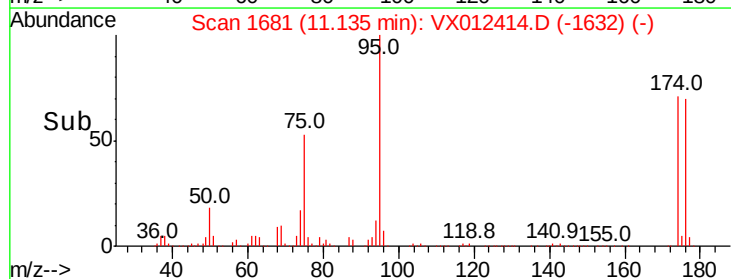
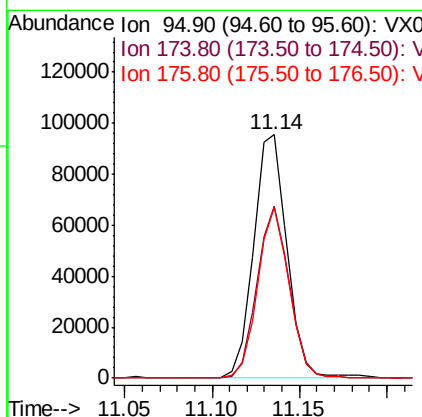
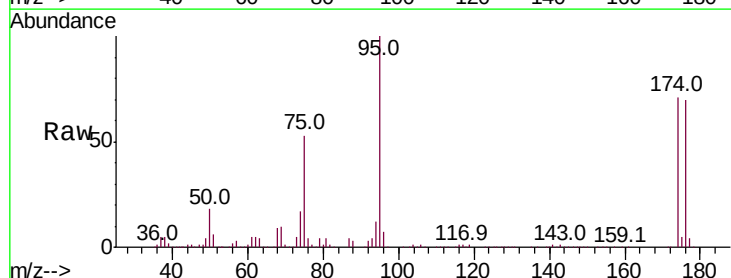
Instrument :  
MSVOA\_X  
ClientSampleId :  
S13-0276

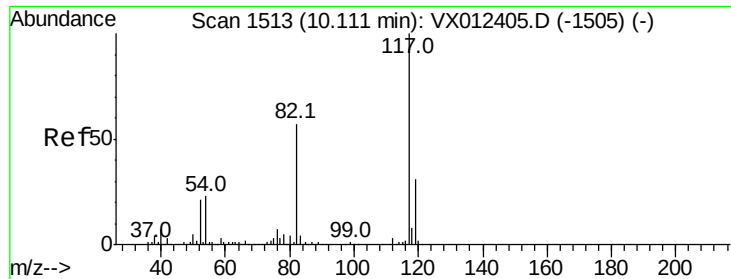
Tot Ion: 98 Resp: 316020  
Ion Ratio Lower Upper  
98 100  
100 67.6 54.4 81.6



#62  
4-Bromofluorobenzene  
Concen: 47.788 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. 0.00 min  
Lab File: VX012414.D  
Acq: 16 Sep 2019 18:42

Tgt Ion: 95 Resp: 125477  
Ion Ratio Lower Upper  
95 100  
174 68.7 0.0 146.0  
176 66.5 0.0 137.6

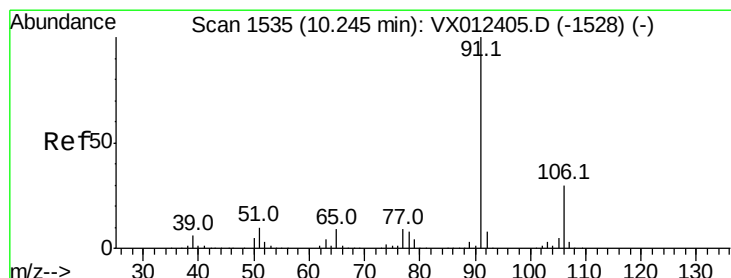
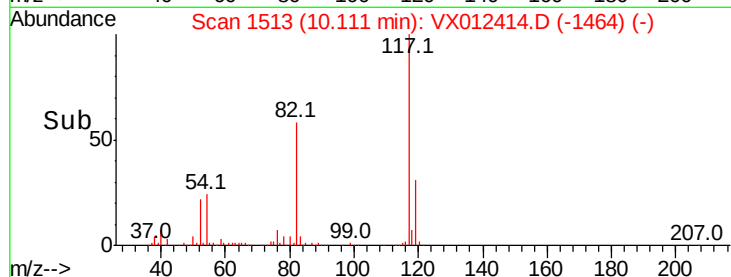
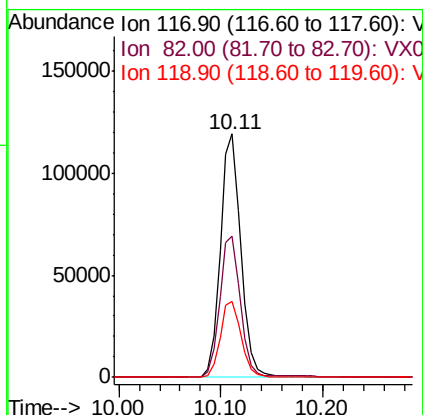
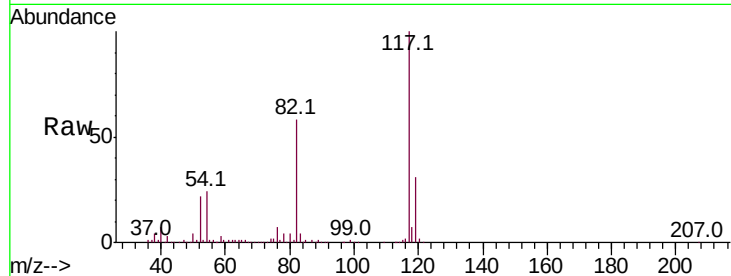




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX012414.D  
Acq: 16 Sep 2019 18:42

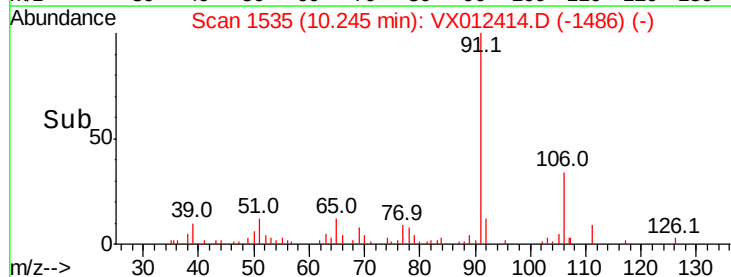
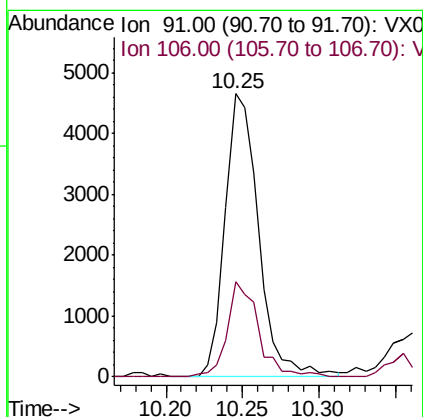
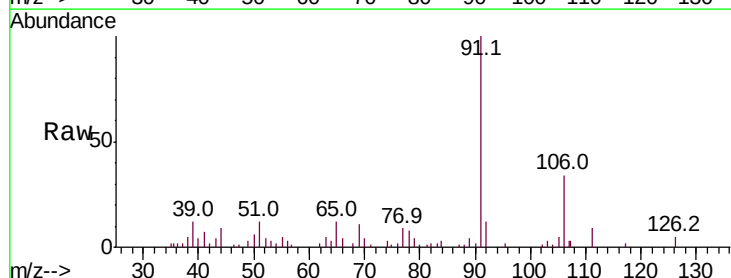
Instrument :  
MSVOA\_X  
ClientSampleId :  
S13-0276

Tot Ion:117 Resp: 167336  
Ion Ratio Lower Upper  
117 100  
82 58.1 45.8 68.6  
119 31.0 24.9 37.3

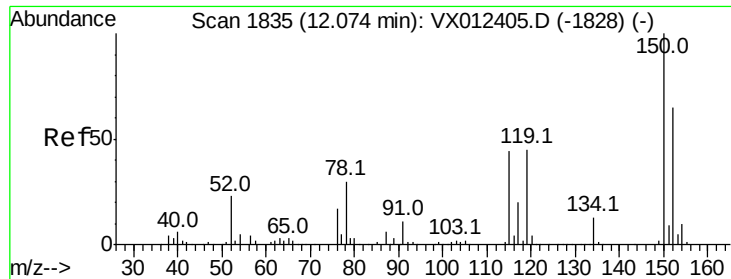


#67  
Ethyl Benzene  
Concen: 1.066 ug/l  
RT: 10.25 min Scan# 1535  
Delta R.T. 0.00 min  
Lab File: VX012414.D  
Acq: 16 Sep 2019 18:42

Tgt Ion: 91 Resp: 7106  
Ion Ratio Lower Upper  
91 100  
106 33.5 24.0 36.0



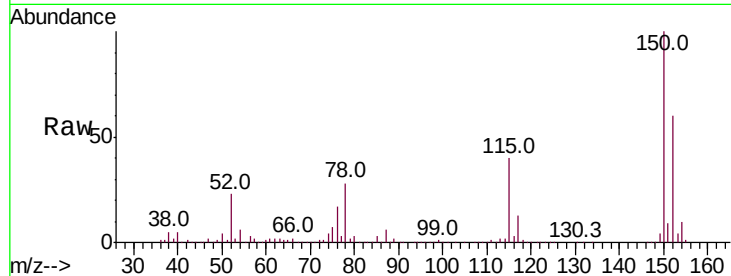




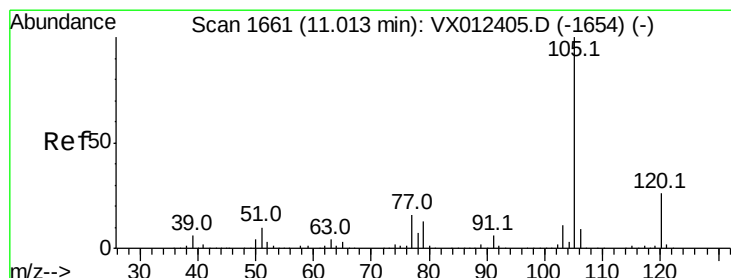
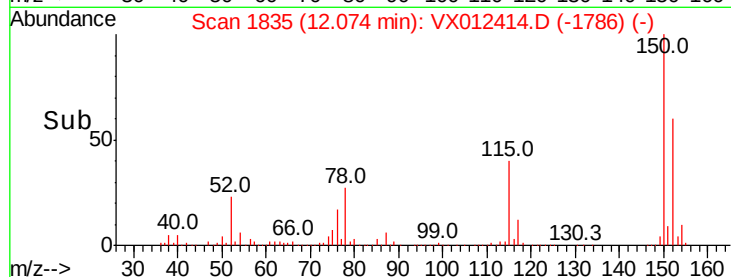
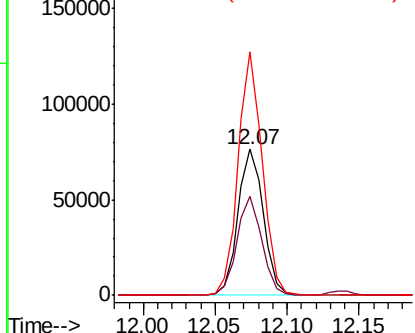
#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.07 min Scan# 1835  
 Delta R.T. 0.00 min  
 Lab File: VX012414.D  
 Acq: 16 Sep 2019 18:42

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S13-0276

Tot Ion:152 Resp: 94072  
 Ion Ratio Lower Upper  
 152 100  
 115 65.9 45.3 135.9  
 150 158.1 0.0 354.0

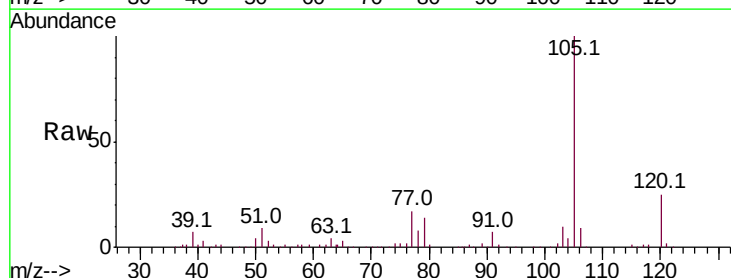


Abundance Ion 151.90 (151.60 to 152.60): V  
 Ion 114.90 (114.60 to 115.60): V  
 Ion 149.90 (149.60 to 150.60): V

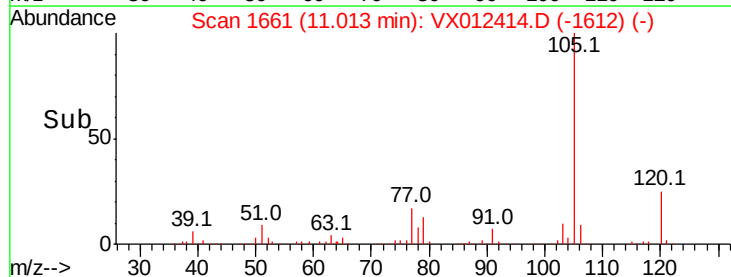
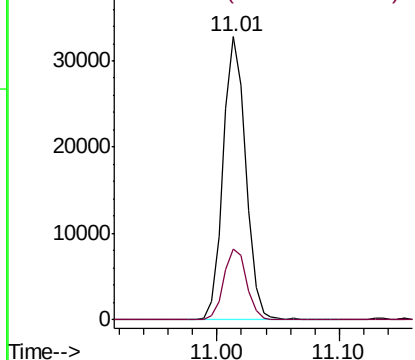


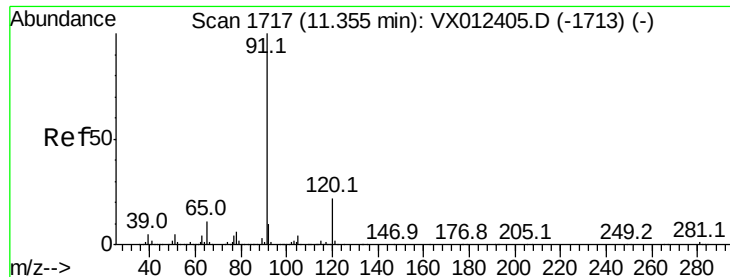
#73  
 Isopropylbenzene  
 Concen: 6.434 ug/l  
 RT: 11.01 min Scan# 1661  
 Delta R.T. 0.00 min  
 Lab File: VX012414.D  
 Acq: 16 Sep 2019 18:42

Tgt Ion:105 Resp: 42048  
 Ion Ratio Lower Upper  
 105 100  
 120 25.2 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V  
 Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 5.078 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX012414.D

Acq: 16 Sep 2019 18:42

Instrument :

MSVOA\_X

ClientSampled :

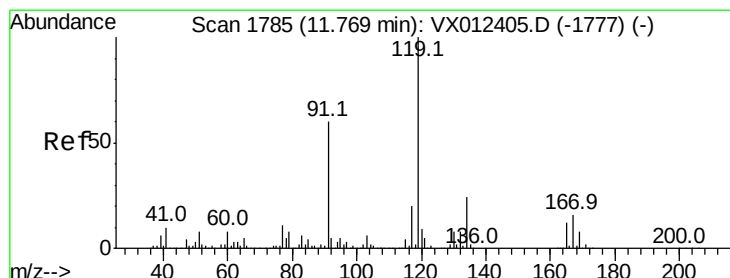
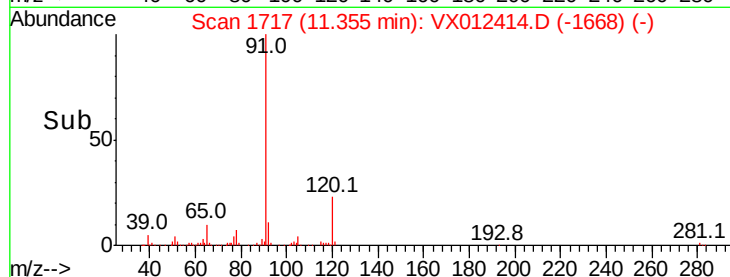
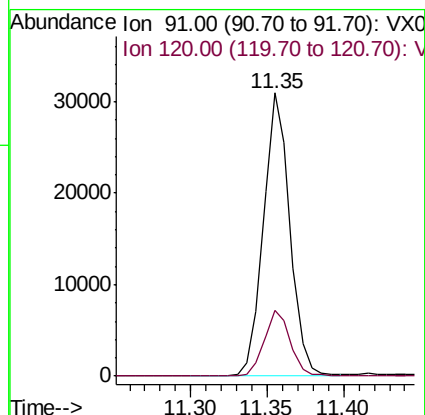
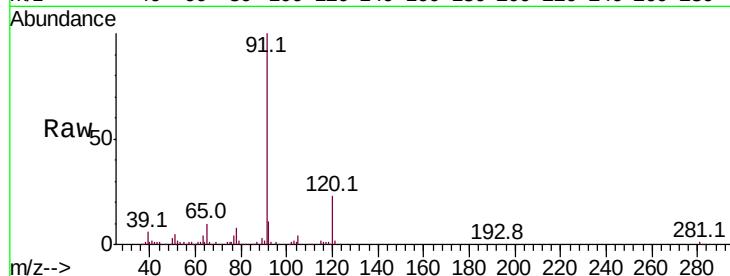
S13-0276

Tot Ion: 91 Resp: 37505

Ion Ratio Lower Upper

91 100

120 23.0 11.5 34.4



#83

tert-Butylbenzene

Concen: 0.571 ug/l

RT: 11.76 min Scan# 1784

Delta R.T. -0.01 min

Lab File: VX012414.D

Acq: 16 Sep 2019 18:42

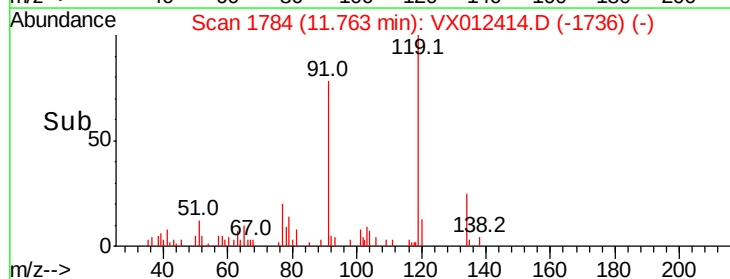
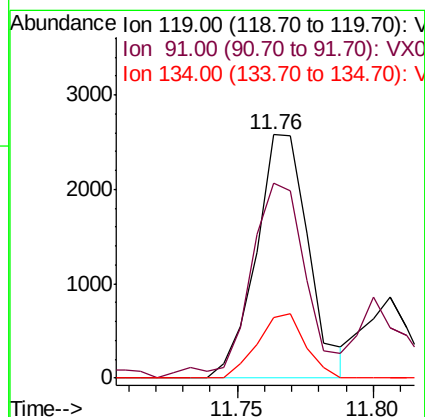
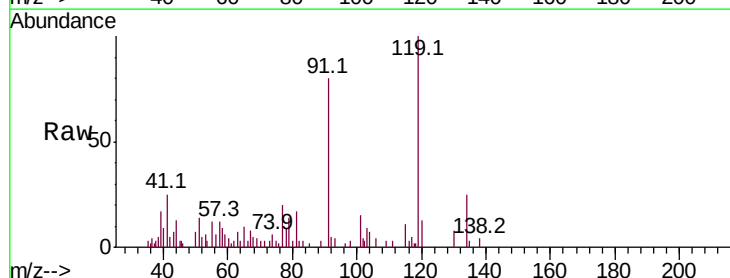
Tgt Ion: 119 Resp: 3449

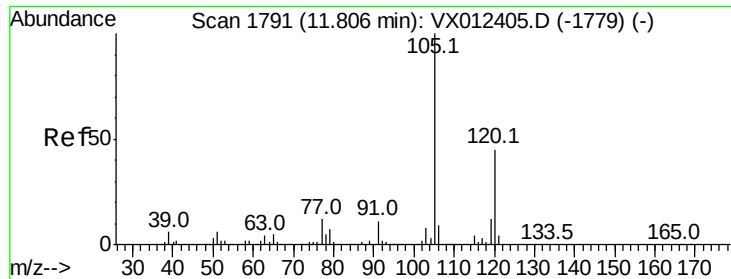
Ion Ratio Lower Upper

119 100

91 85.4 29.6 88.8

134 24.0 11.4 34.1

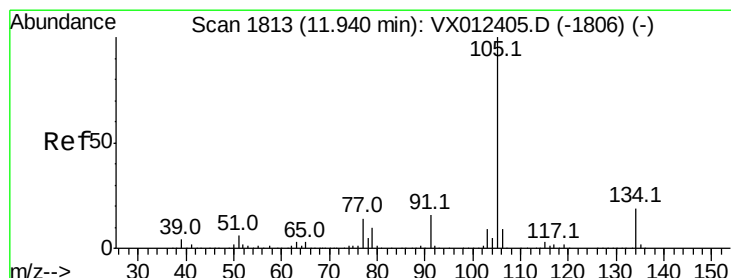
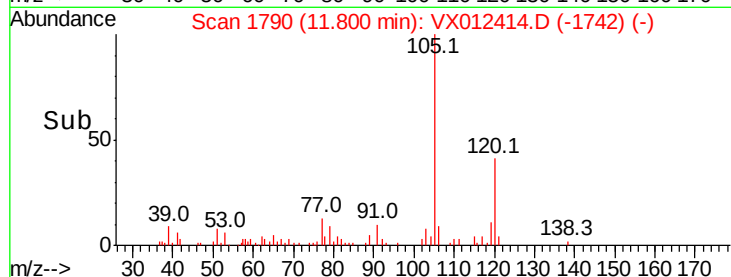
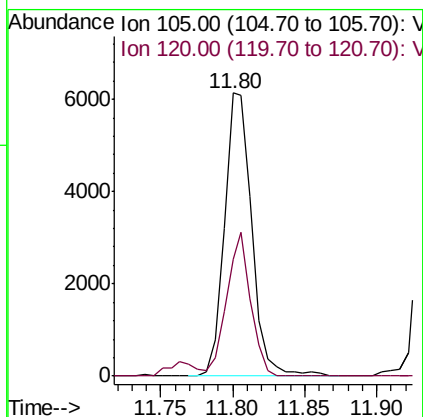
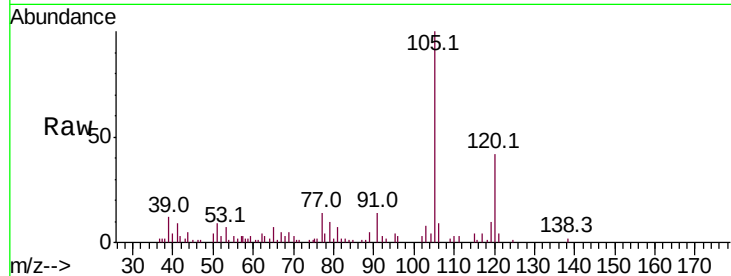




#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.422 ug/l  
 RT: 11.80 min Scan# 1790  
 Delta R.T. -0.01 min  
 Lab File: VX012414.D  
 Acq: 16 Sep 2019 18:42

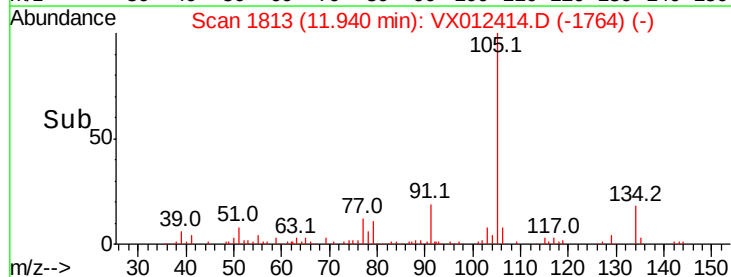
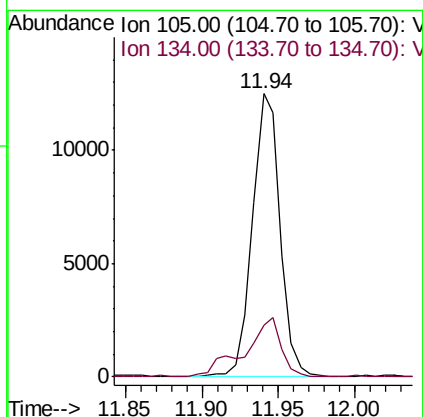
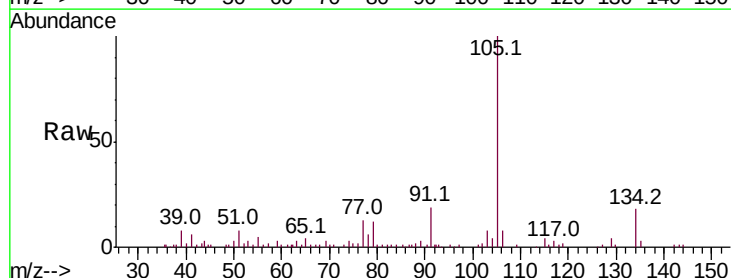
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S13-0276

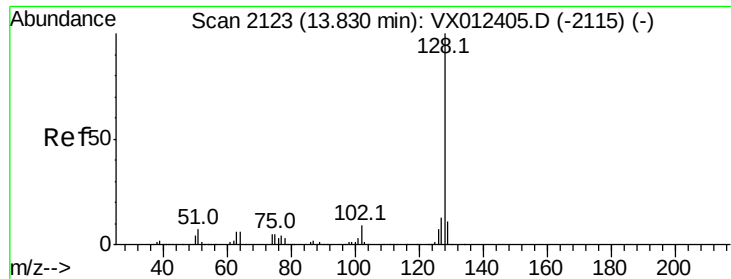
Tot Ion:105 Resp: 8213  
 Ion Ratio Lower Upper  
 105 100  
 120 44.2 22.1 66.5



#85  
 sec-Butylbenzene  
 Concen: 2.356 ug/l  
 RT: 11.94 min Scan# 1813  
 Delta R.T. 0.00 min  
 Lab File: VX012414.D  
 Acq: 16 Sep 2019 18:42

Tgt Ion:105 Resp: 15726  
 Ion Ratio Lower Upper  
 105 100  
 134 27.5 10.1 30.1

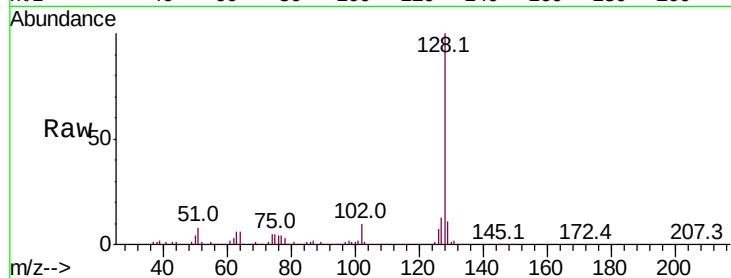




#95  
 Naphthalene  
 Concen: 9.222 ug/l  
 RT: 13.83 min Scan# 2123  
 Delta R.T. 0.00 min  
 Lab File: VX012414.D  
 Acq: 16 Sep 2019 18:42

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S13-0276

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 14.1  | 10.2  | 15.4  |
| 129     | 12.9  | 8.6   | 13.0  |



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

