

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091919\  
 Data File : VX012527.D  
 Acq On : 19 Sep 2019 14:47  
 Operator : JC/SP  
 Sample : K4858-24  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE132D3-20190911

Quant Time: Sep 20 05:37:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 17 15:27:10 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 195087   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 307333   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 255770   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 98366    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 128742   | 46.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.10%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 89583    | 48.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.32%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 353677   | 51.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.74% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 122788   | 42.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.90%  |          |

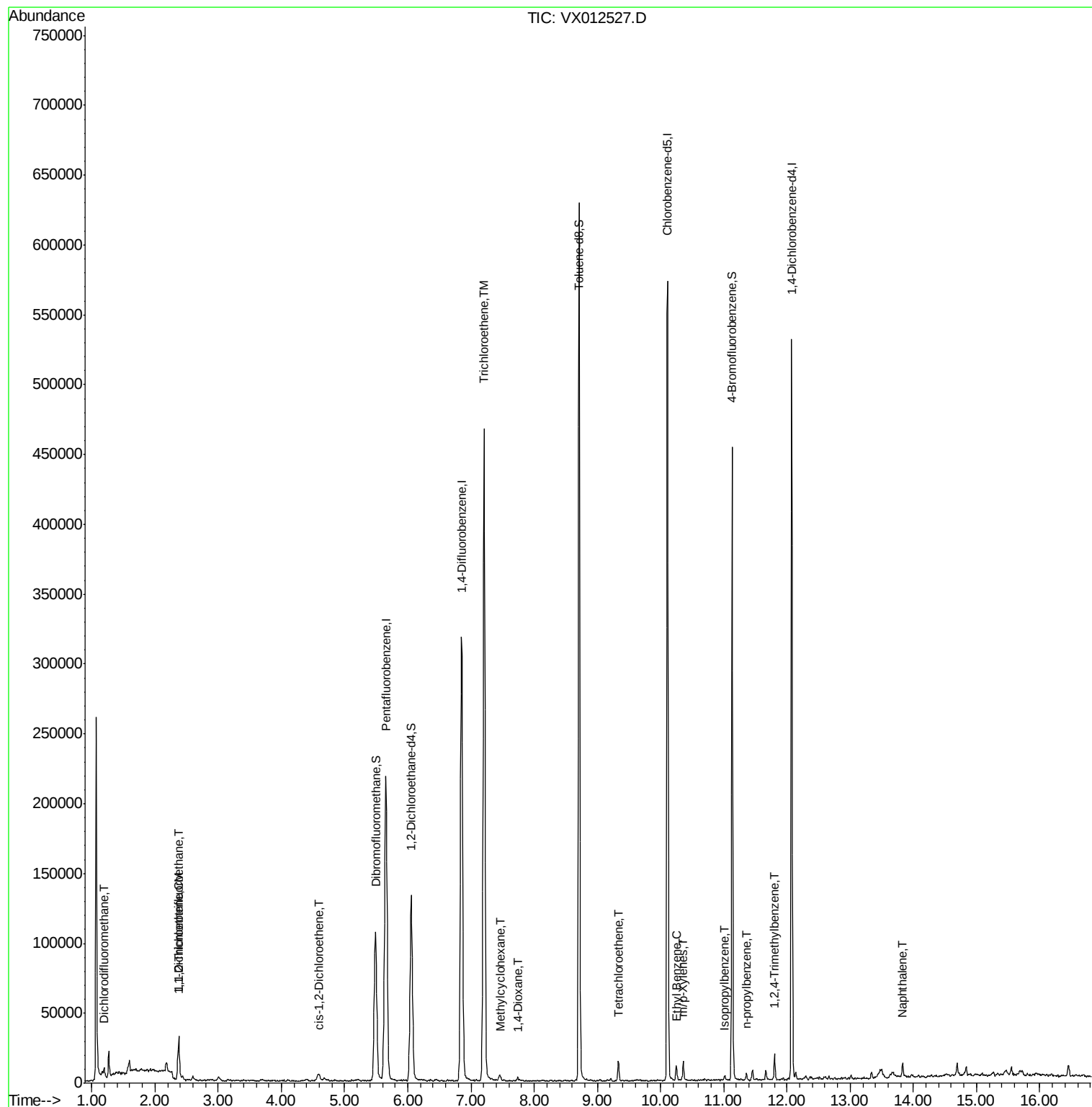
| Target Compounds              | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|-------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.19  | 85   | 2231     | 2.092   | ug/l   | 91     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37  | 101  | 11187    | 7.276   | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 2.36  | 96   | 1538     | 1.254   | ug/l # | 85     |
| 27) cis-1,2-Dichloroethene    | 4.59  | 96   | 3093     | 1.626   | ug/l   | 91     |
| 39) Methylcyclohexane         | 7.47  | 83   | 1497     | 0.824   | ug/l # | 84     |
| 44) Trichloroethene           | 7.21  | 130  | 176346   | 112.867 | ug/l   | 97     |
| 49) 1,4-Dioxane               | 7.74  | 88   | 1389     | 23.527  | ug/l # | 83     |
| 64) Tetrachloroethene         | 9.33  | 164  | 2546     | 2.172   | ug/l # | 88     |
| 67) Ethyl Benzene             | 10.25 | 91   | 5941     | 0.819   | ug/l   | 89     |
| 68) m/p-Xylenes               | 10.36 | 106  | 3124     | 1.184   | ug/l   | 97     |
| 73) Isopropylbenzene          | 11.01 | 105  | 1605     | 0.260   | ug/l   | 95     |
| 78) n-propylbenzene           | 11.36 | 91   | 2461     | 0.358   | ug/l   | 86     |
| 84) 1,2,4-Trimethylbenzene    | 11.81 | 105  | 7934     | 1.468   | ug/l   | 97     |
| 95) Naphthalene               | 13.83 | 128  | 5625     | 0.829   | ug/l # | 94     |

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

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RE132D3-20190911

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091719W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 17 15:27:10 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: VX012527.D

Acq: 19 Sep 2019 14:47

Instrument :

MSVOA\_X

ClientSampleId :

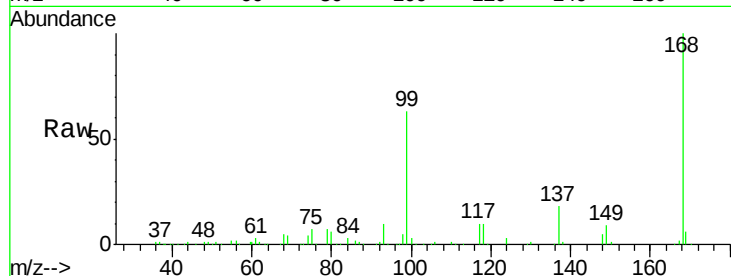
RE132D3-20190911

Tot Ion:168 Resp: 195087

Ion Ratio Lower Upper

168 100

99 62.6 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

80000

60000

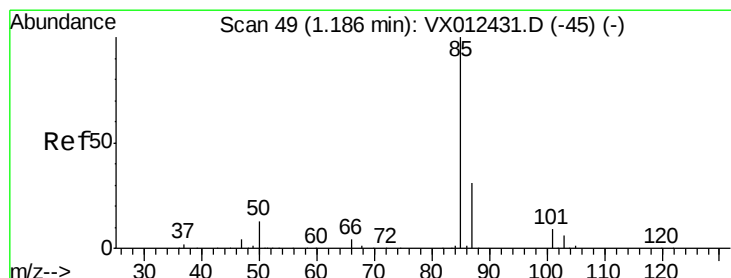
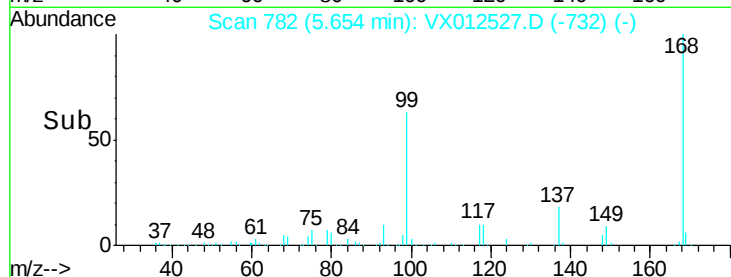
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 2.092 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX012527.D

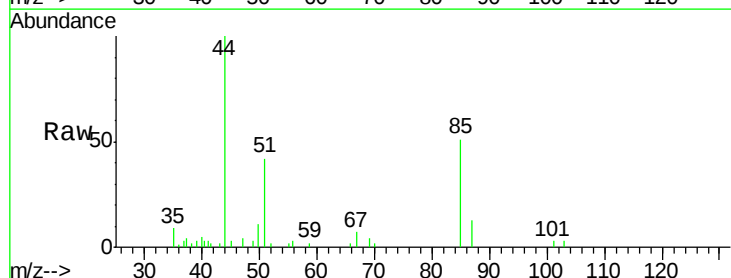
Acq: 19 Sep 2019 14:47

Tgt Ion: 85 Resp: 2231

Ion Ratio Lower Upper

85 100

87 26.1 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

2000

1500

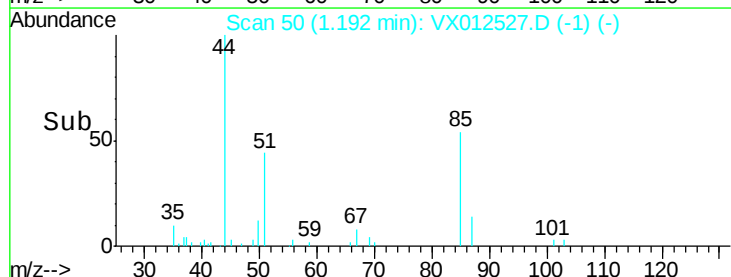
1000

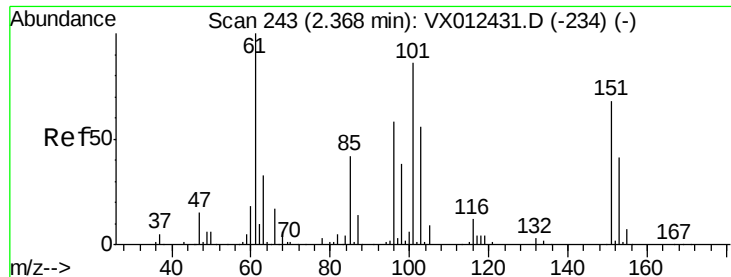
500

0

Time-->

1.15 1.20 1.25

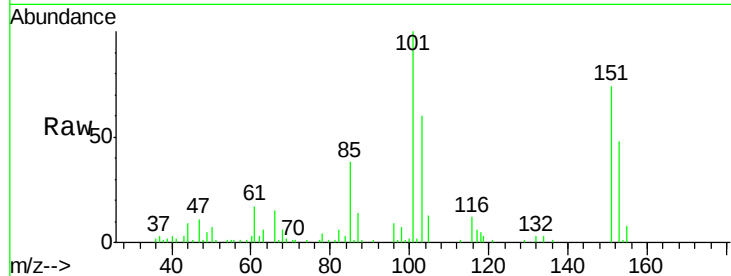




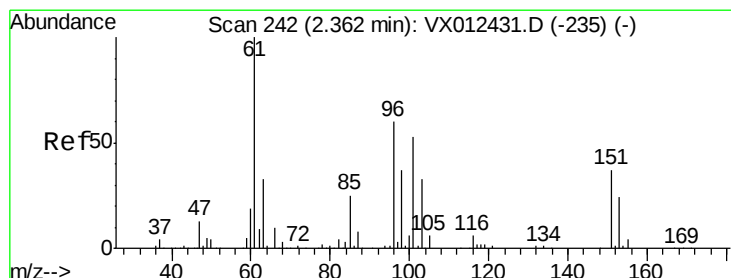
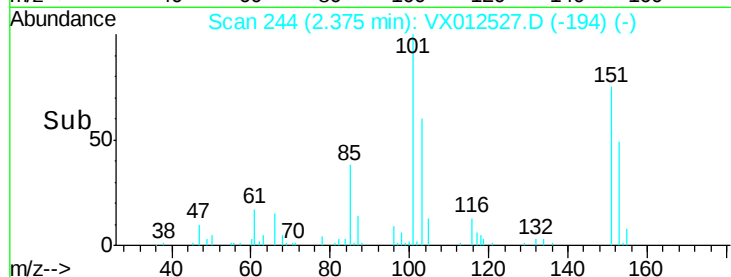
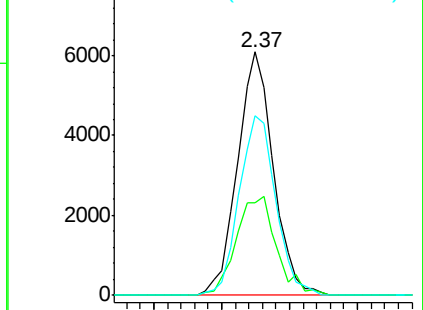
#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 7.276 ug/l  
 RT: 2.37 min Scan# 244  
 Delta R.T. 0.01 min  
 Lab File: VX012527.D  
 Acq: 19 Sep 2019 14:47

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE132D3-20190911

Tot Ion:101 Resp: 11187  
 Ion Ratio Lower Upper  
 101 100  
 85 45.7 37.3 55.9  
 151 75.5 61.0 91.4

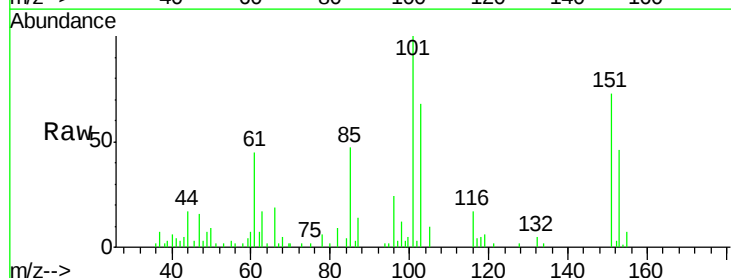


Abundance Ion 100.90 (100.60 to 101.60): V  
 Ion 84.90 (84.60 to 85.60): VX0  
 Ion 150.80 (150.50 to 151.50): V

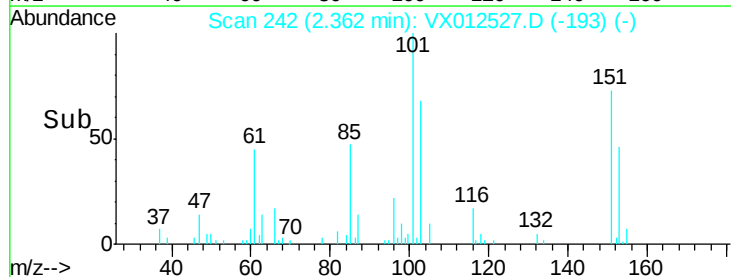
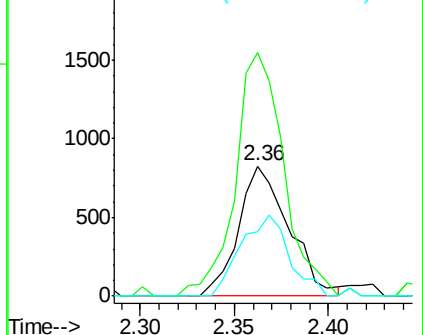


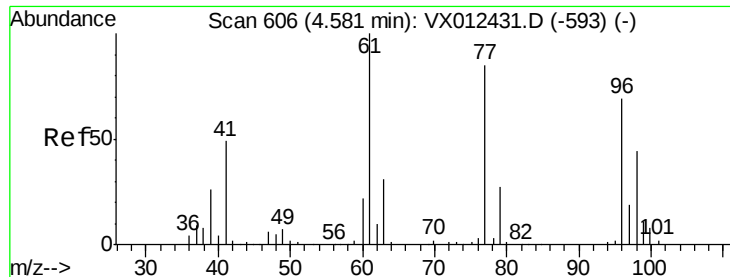
#12  
 1,1-Dichloroethene  
 Concen: 1.254 ug/l  
 RT: 2.36 min Scan# 242  
 Delta R.T. 0.00 min  
 Lab File: VX012527.D  
 Acq: 19 Sep 2019 14:47

Tgt Ion: 96 Resp: 1538  
 Ion Ratio Lower Upper  
 96 100  
 61 187.6 133.8 200.6  
 98 49.7 49.9 74.9#



Abundance Ion 95.90 (95.60 to 96.60): VX0  
 Ion 60.90 (60.60 to 61.60): VX0  
 Ion 97.90 (97.60 to 98.60): VX0

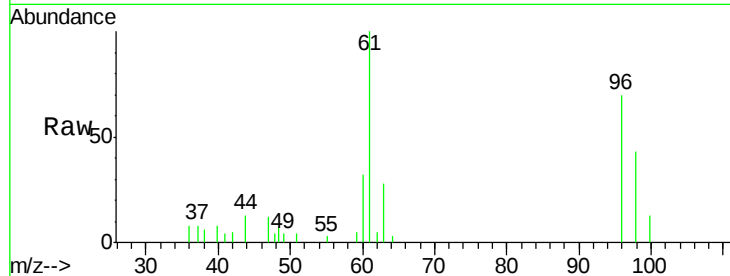




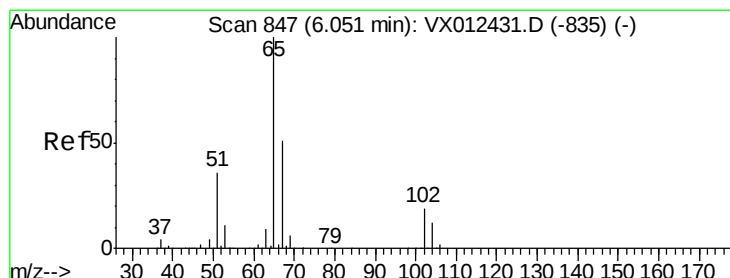
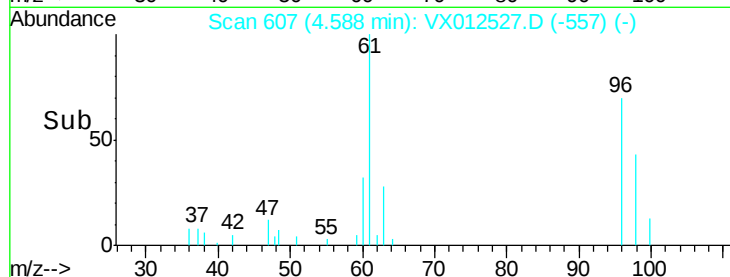
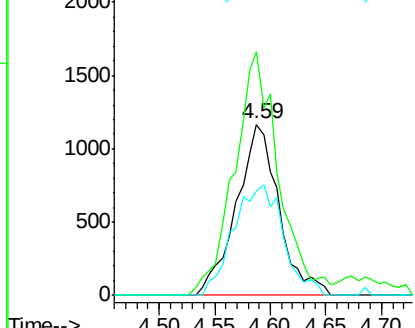
#27  
 cis-1,2-Dichloroethene  
 Concen: 1.626 ug/l  
 RT: 4.59 min Scan# 607  
 Delta R.T. 0.01 min  
 Lab File: VX012527.D  
 Acq: 19 Sep 2019 14:47

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE132D3-20190911

Tot Ion: 96 Resp: 3093  
 Ion Ratio Lower Upper  
 96 100  
 61 149.3 0.0 319.4  
 98 75.7 0.0 130.6

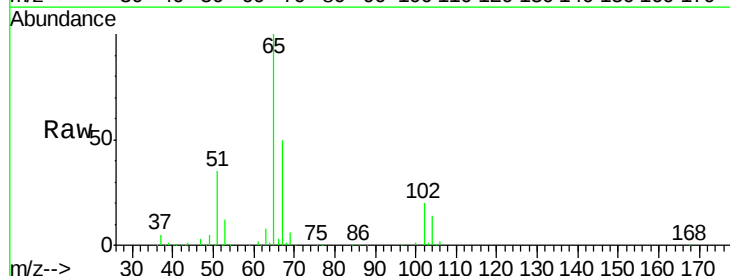


Abundance Ion 95.90 (95.60 to 96.60): VX0  
 Ion 60.90 (60.60 to 61.60): VX0  
 Ion 97.90 (97.60 to 98.60): VX0

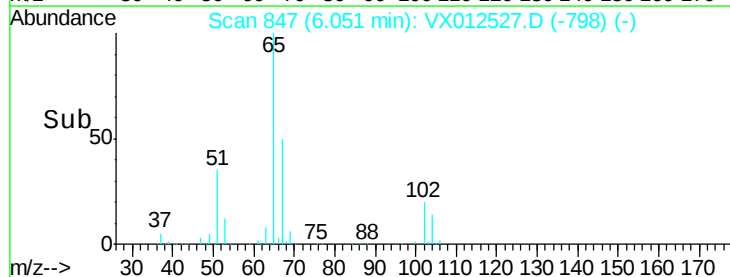
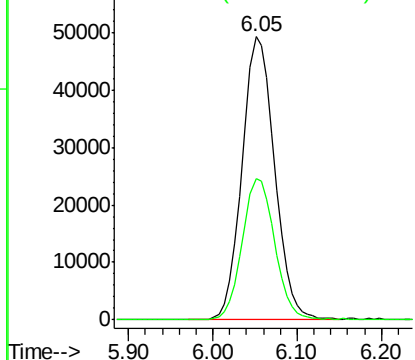


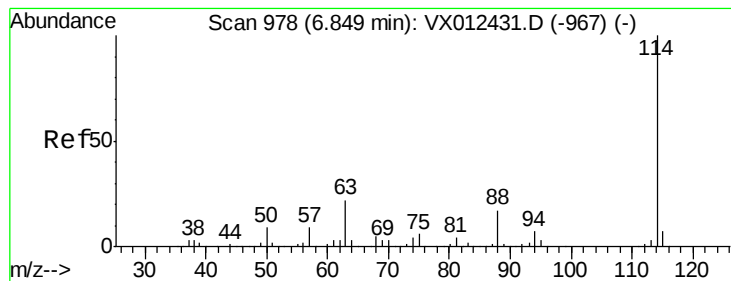
#33  
 1,2-Dichloroethane-d4  
 Concen: 46.045 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. 0.00 min  
 Lab File: VX012527.D  
 Acq: 19 Sep 2019 14:47

Tgt Ion: 65 Resp: 128742  
 Ion Ratio Lower Upper  
 65 100  
 67 50.2 0.0 101.2



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: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012527.D

Acq: 19 Sep 2019 14:47

Instrument :

MSVOA\_X

ClientSampleId :

RE132D3-20190911

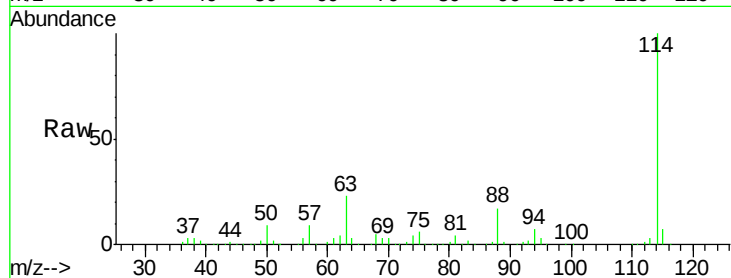
Tot Ion:114 Resp: 307333

Ion Ratio Lower Upper

114 100

63 22.7 0.0 43.2

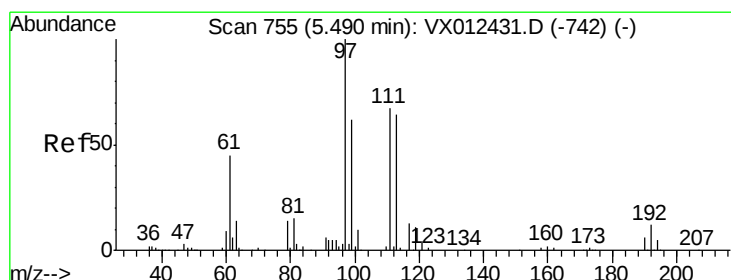
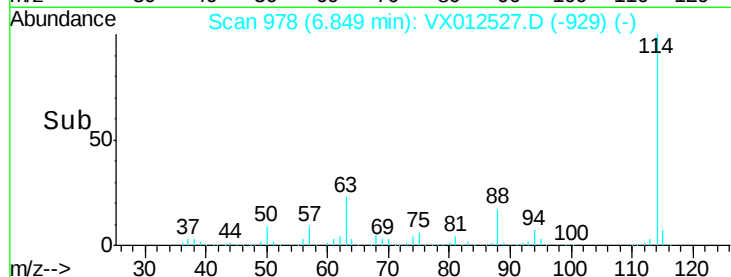
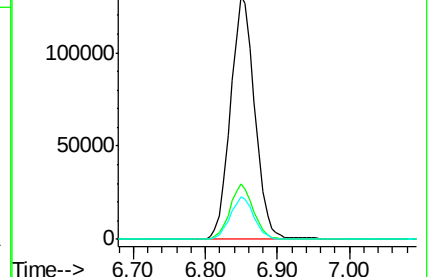
88 17.3 0.0 33.2



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



#35

Dibromofluoromethane

Concen: 48.159 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012527.D

Acq: 19 Sep 2019 14:47

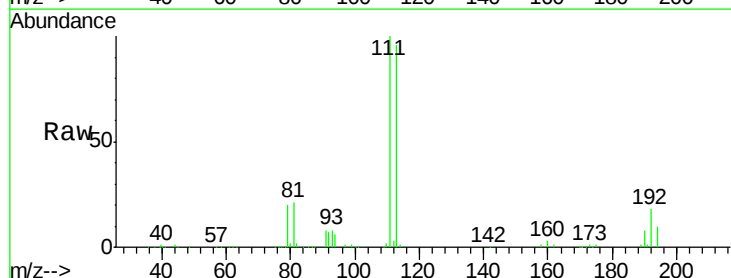
Tgt Ion:113 Resp: 89583

Ion Ratio Lower Upper

113 100

111 104.0 83.4 125.2

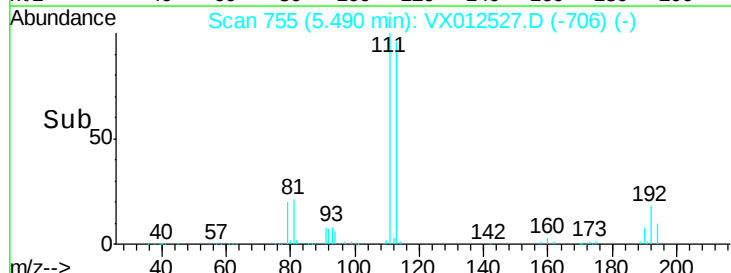
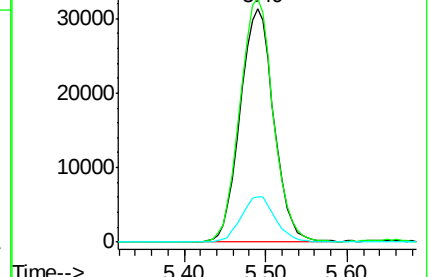
192 19.6 14.4 21.6

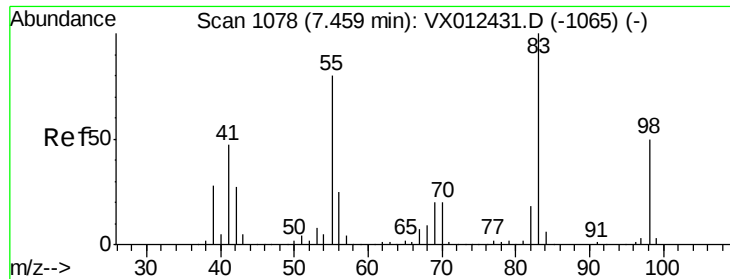


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

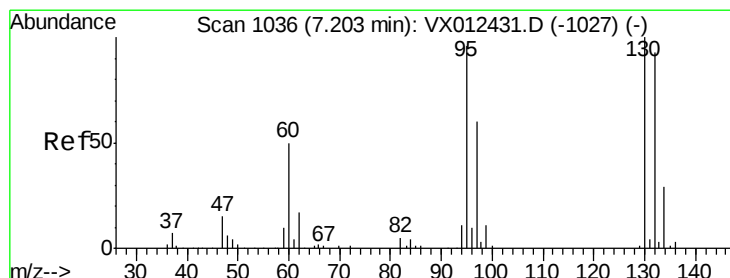
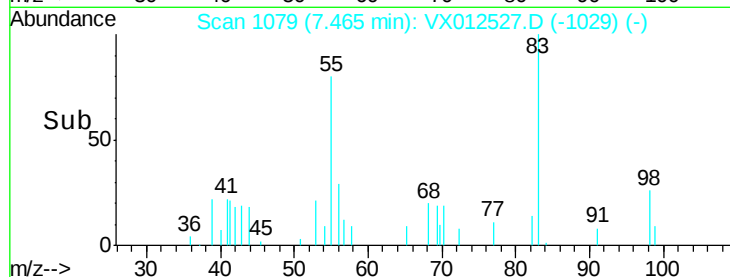
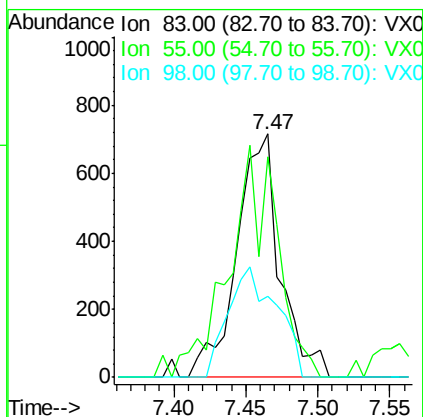
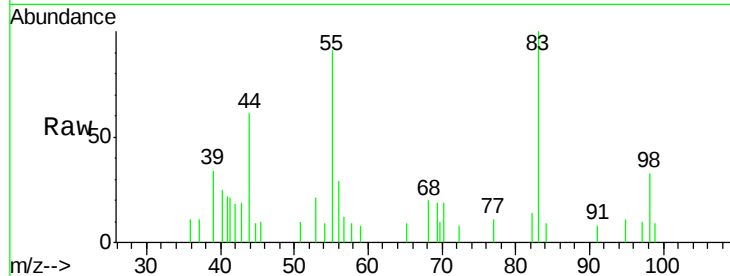




#39  
Methvlcvclohexane  
Concen: 0.824 ug/l  
RT: 7.47 min Scan# 1079  
Delta R.T. 0.01 min  
Lab File: VX012527.D  
Acq: 19 Sep 2019 14:47

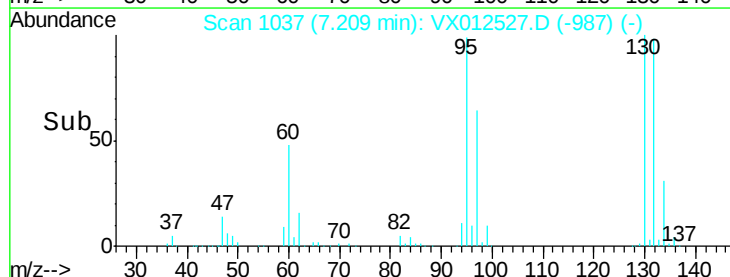
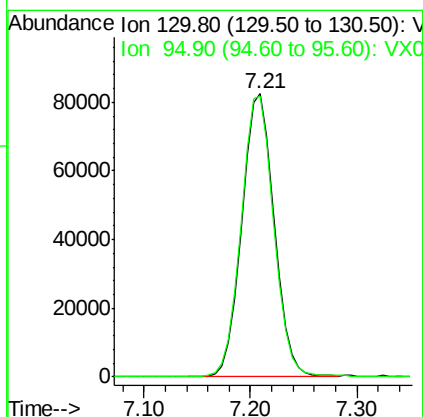
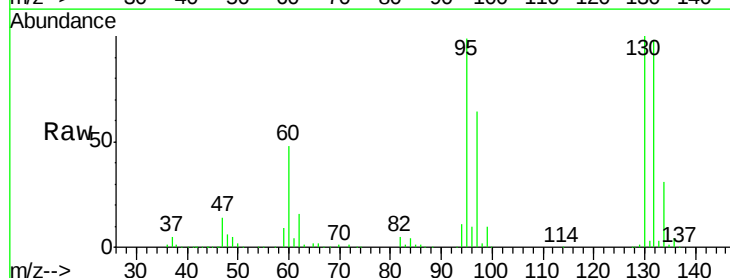
Instrument :  
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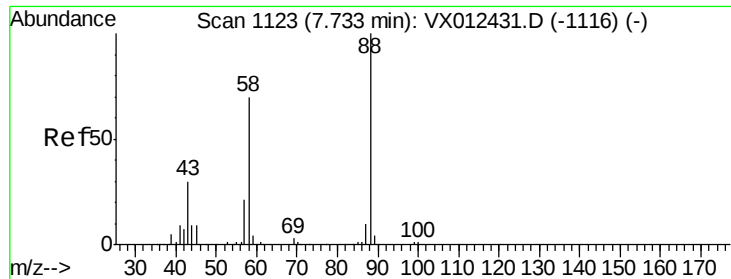
Tot Ion: 83 Resp: 1497  
Ion Ratio Lower Upper  
83 100  
55 90.6 64.4 96.6  
98 33.2 40.1 60.1#



#44  
Trichloroethene  
Concen: 112.867 ug/l  
RT: 7.21 min Scan# 1037  
Delta R.T. 0.01 min  
Lab File: VX012527.D  
Acq: 19 Sep 2019 14:47

Tgt Ion:130 Resp: 176346  
Ion Ratio Lower Upper  
130 100  
95 99.1 0.0 193.0





#49

1,4-Dioxane

Concen: 23.527 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX012527.D

Acq: 19 Sep 2019 14:47

Instrument :

MSVOA\_X

ClientSampleId :

RE132D3-20190911

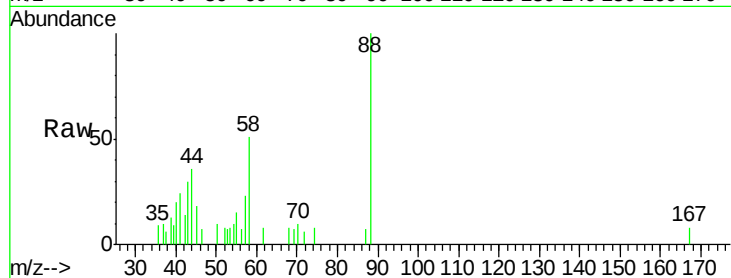
Tot Ion: 88 Resp: 1389

Ion Ratio Lower Upper

88 100

43 27.6 29.4 44.0#

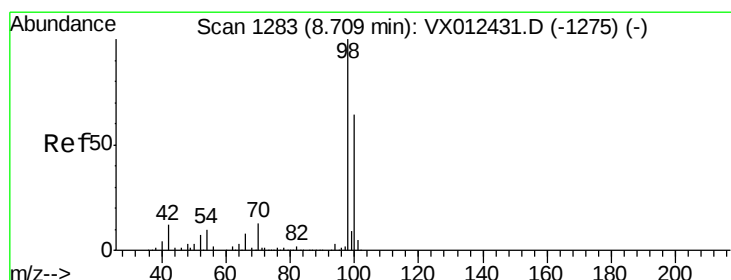
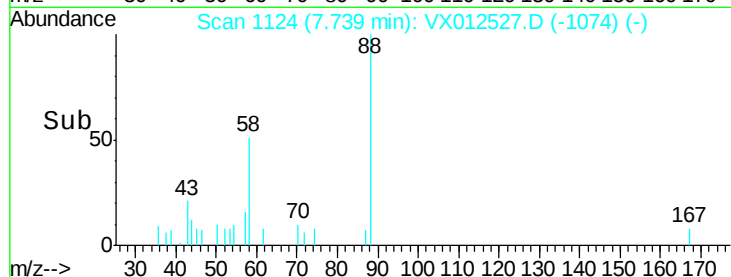
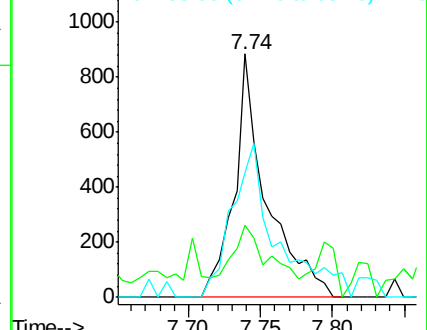
58 86.3 57.5 86.3#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 51.367 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012527.D

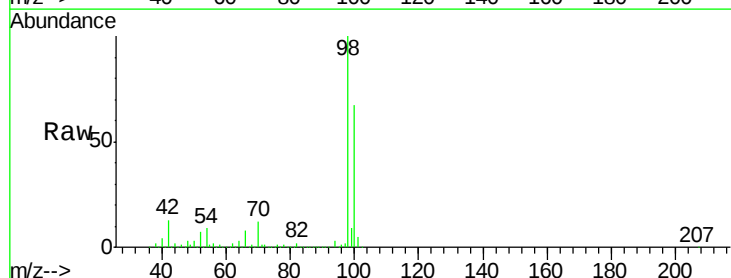
Acq: 19 Sep 2019 14:47

Tgt Ion: 98 Resp: 353677

Ion Ratio Lower Upper

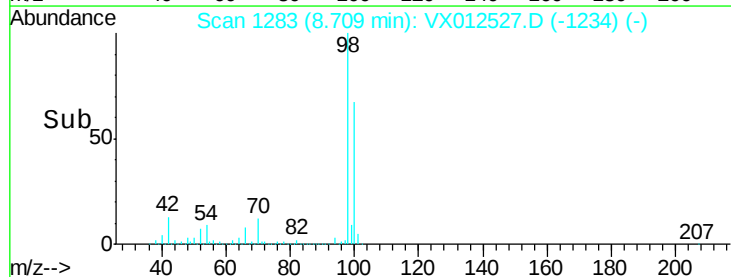
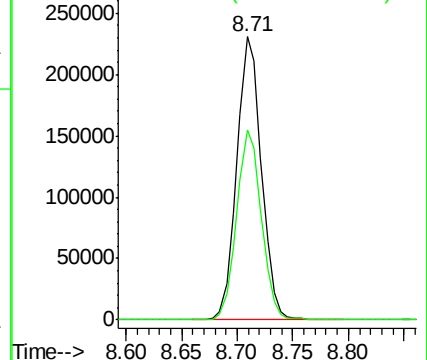
98 100

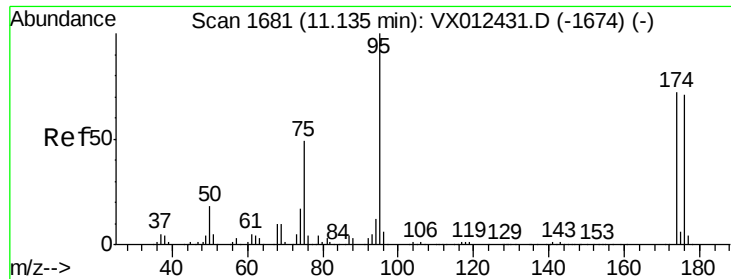
100 67.4 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 42.951 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012527.D

Acq: 19 Sep 2019 14:47

Instrument :

MSVOA\_X

ClientSampleId :

RE132D3-20190911

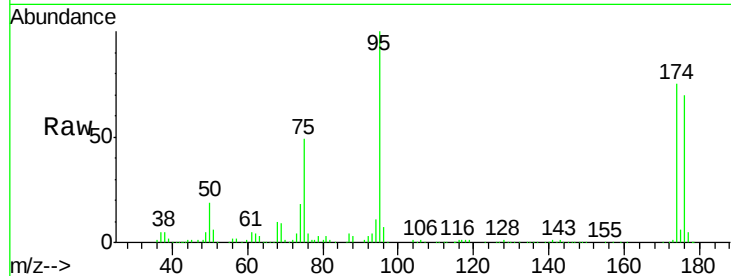
Tot Ion: 95 Resp: 122788

Ion Ratio Lower Upper

95 100

174 71.3 0.0 140.0

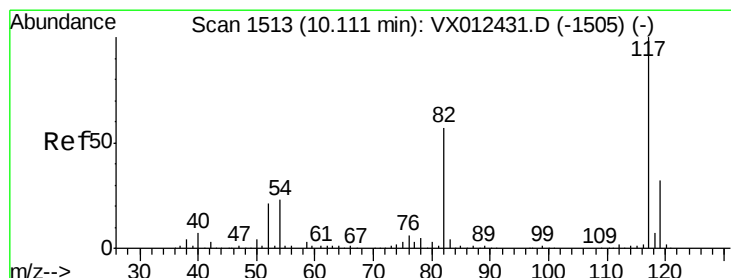
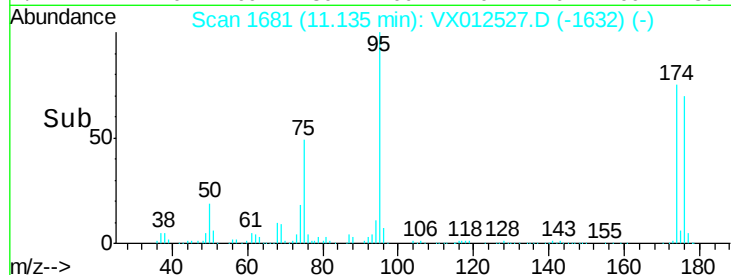
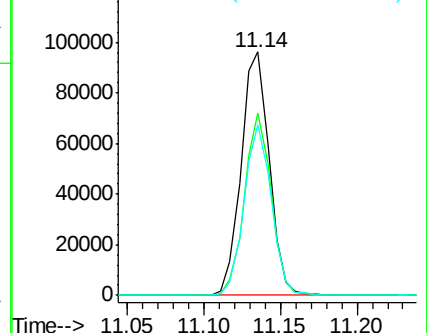
176 67.9 0.0 135.4



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012527.D

Acq: 19 Sep 2019 14:47

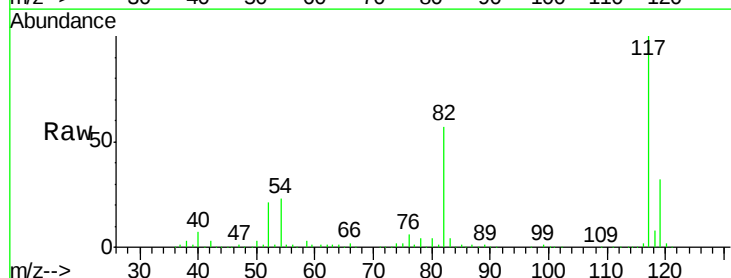
Tgt Ion: 117 Resp: 255770

Ion Ratio Lower Upper

117 100

82 57.1 45.9 68.9

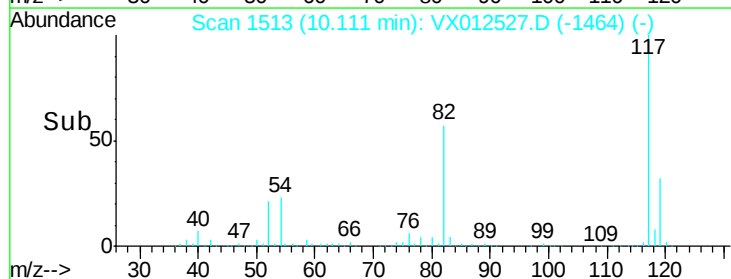
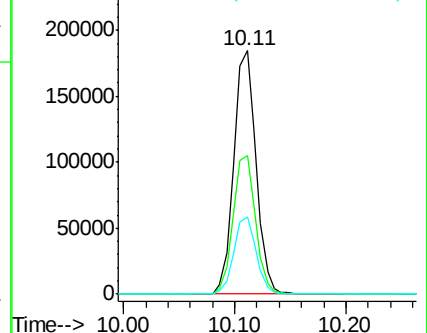
119 31.7 25.3 37.9

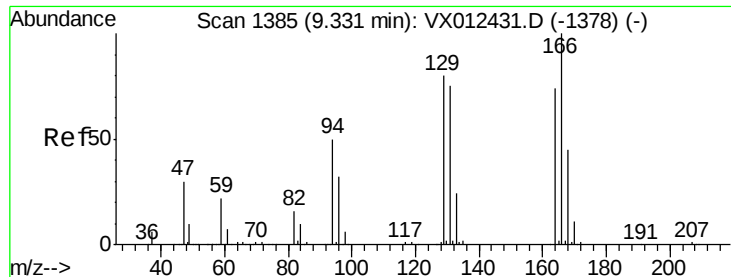


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 2.172 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX012527.D

Acq: 19 Sep 2019 14:47

Instrument :

MSVOA\_X

ClientSampleId :

RE132D3-20190911

Tot Ion:164 Resp: 2546

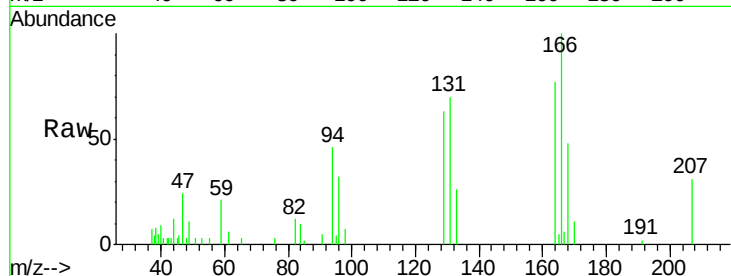
Ion Ratio Lower Upper

164 100

166 130.3 107.8 161.6

129 82.7 86.2 129.2#

131 91.8 80.4 120.6

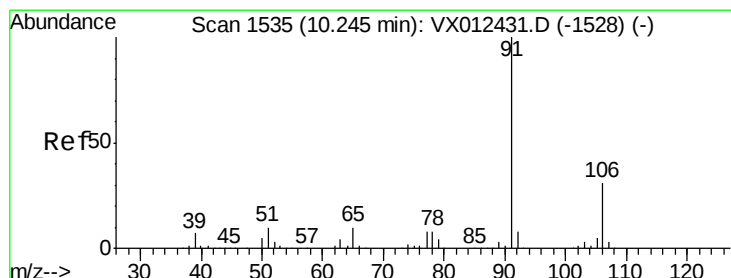
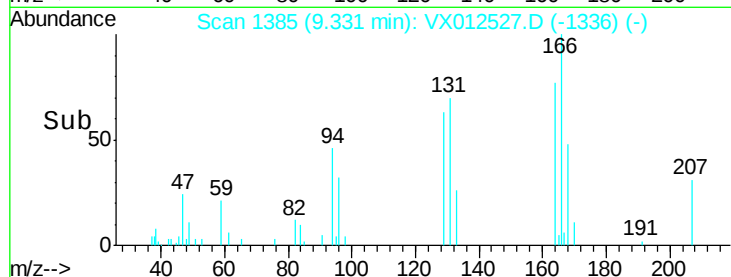
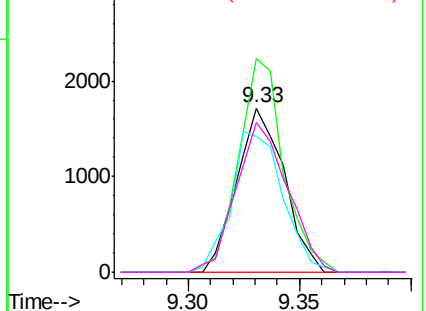


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#67

Ethyl Benzene

Concen: 0.819 ug/l

RT: 10.25 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VX012527.D

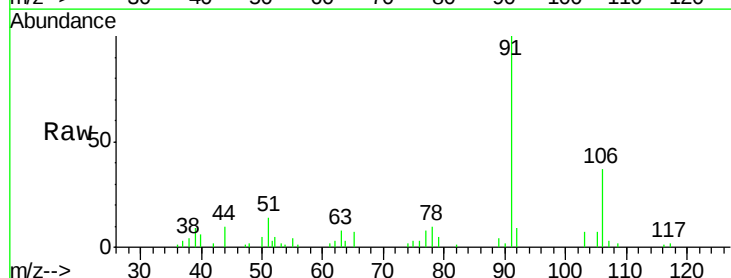
Acq: 19 Sep 2019 14:47

Tgt Ion: 91 Resp: 5941

Ion Ratio Lower Upper

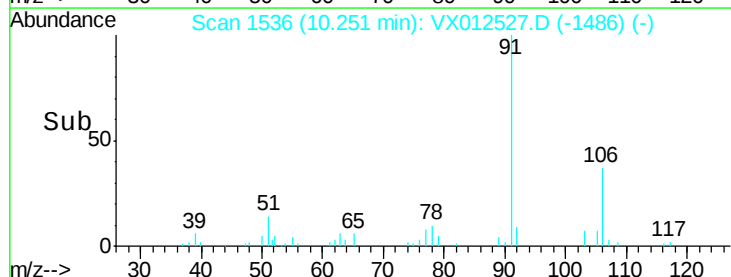
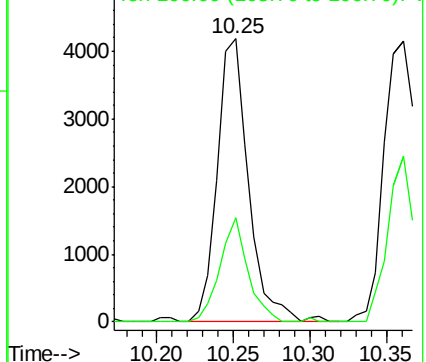
91 100

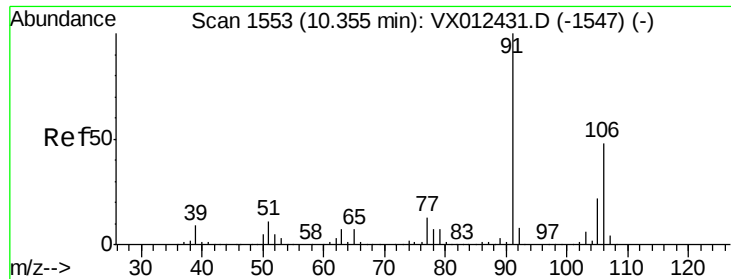
106 36.7 24.6 37.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

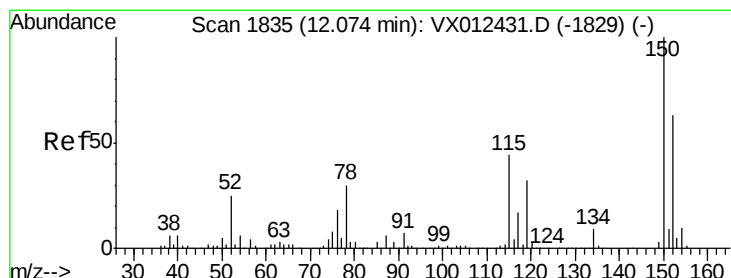
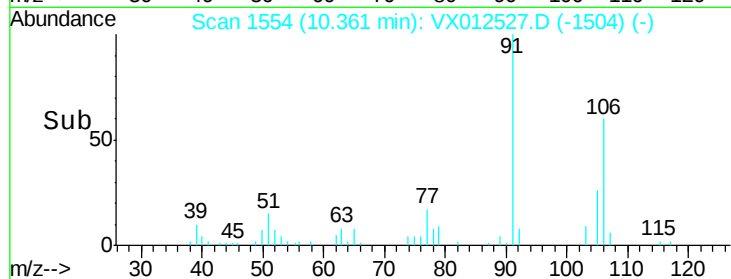
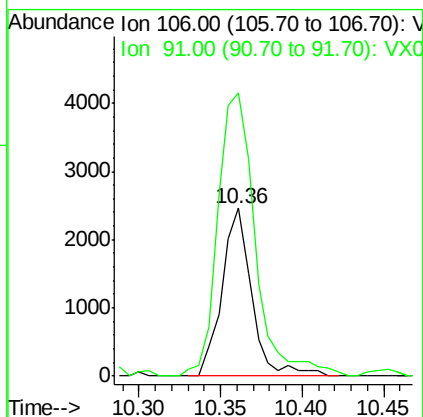
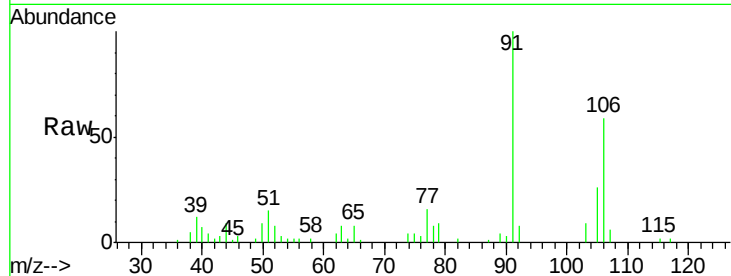




#68  
m/p-Xvlenes  
Concen: 1.184 ug/l  
RT: 10.36 min Scan# 1554  
Delta R.T. 0.01 min  
Lab File: VX012527.D  
Acq: 19 Sep 2019 14:47

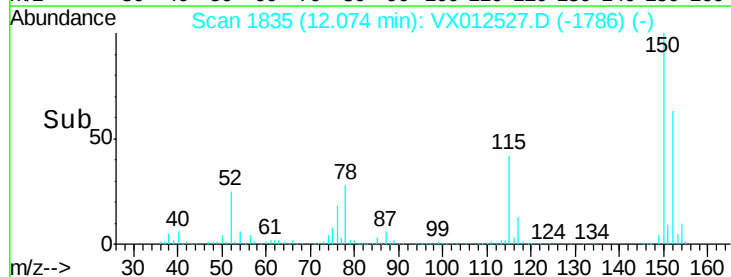
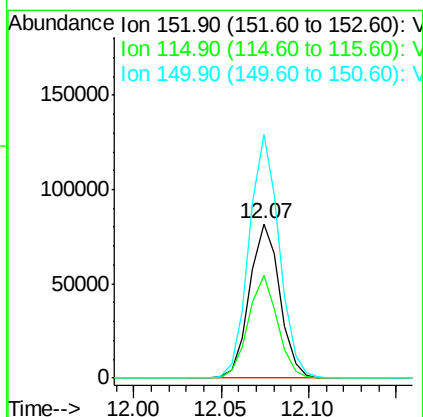
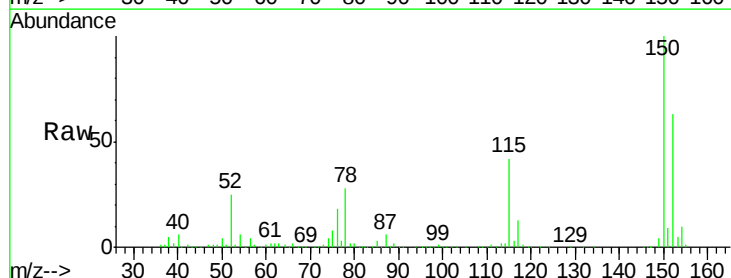
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D3-20190911

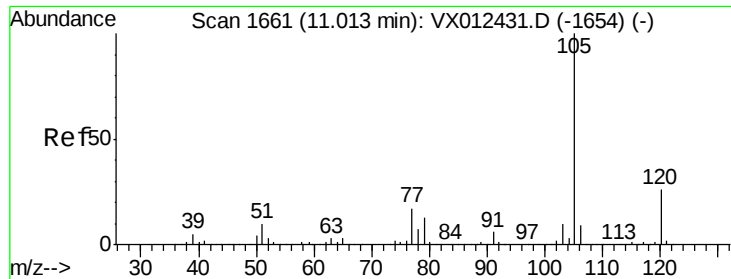
Tot Ion:106 Resp: 3124  
Ion Ratio Lower Upper  
106 100  
91 212.7 166.6 250.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX012527.D  
Acq: 19 Sep 2019 14:47

Tgt Ion:152 Resp: 98366  
Ion Ratio Lower Upper  
152 100  
115 64.9 44.1 132.3  
150 157.7 0.0 343.8





#73

Isopropylbenzene

Concen: 0.260 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VX012527.D

Acq: 19 Sep 2019 14:47

Instrument :

MSVOA\_X

ClientSampleId :

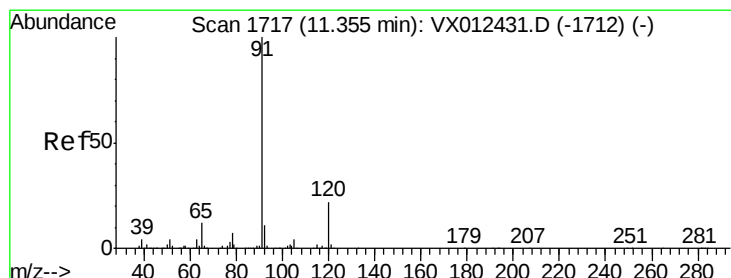
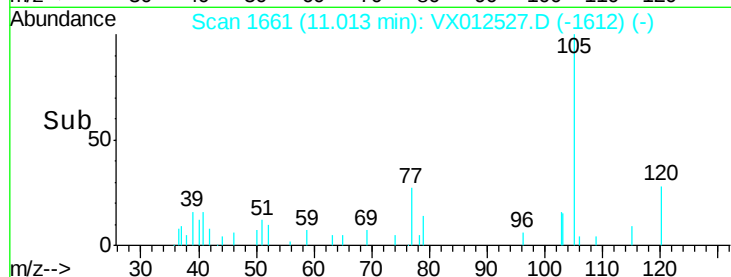
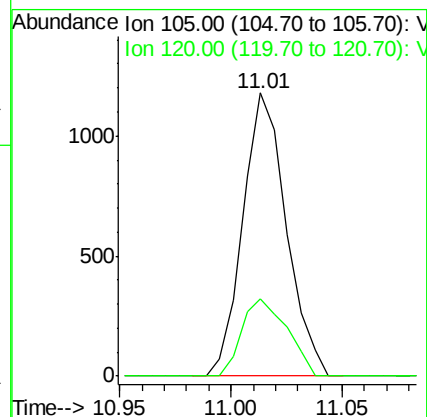
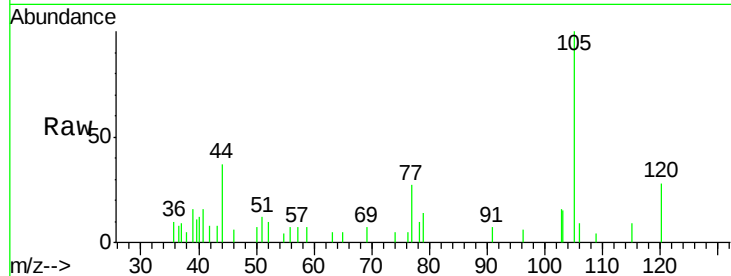
RE132D3-20190911

Tot Ion:105 Resp: 1605

Ion Ratio Lower Upper

105 100

120 28.4 12.9 38.7



#78

n-propylbenzene

Concen: 0.358 ug/l

RT: 11.36 min Scan# 1718

Delta R.T. 0.01 min

Lab File: VX012527.D

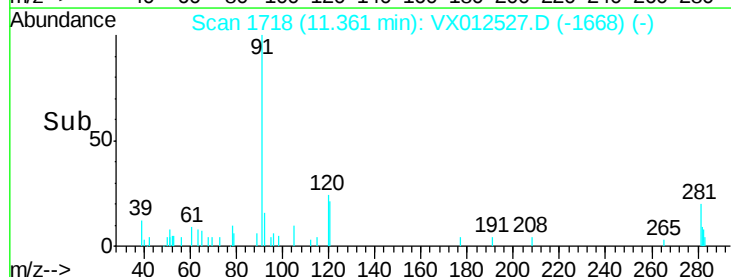
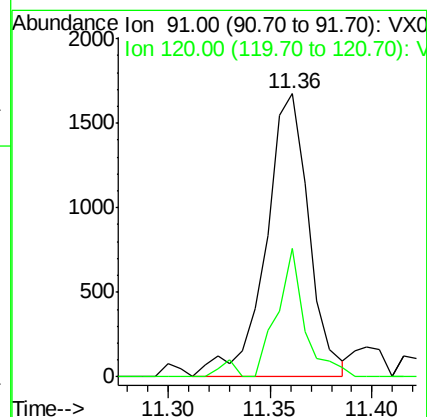
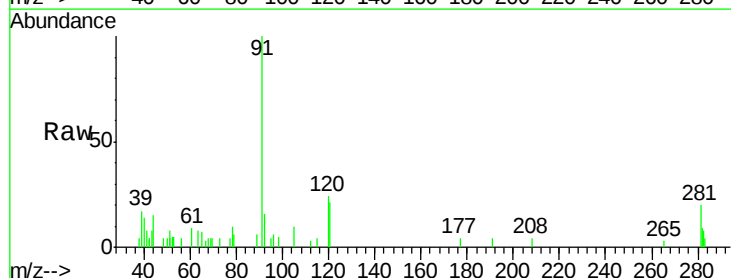
Acq: 19 Sep 2019 14:47

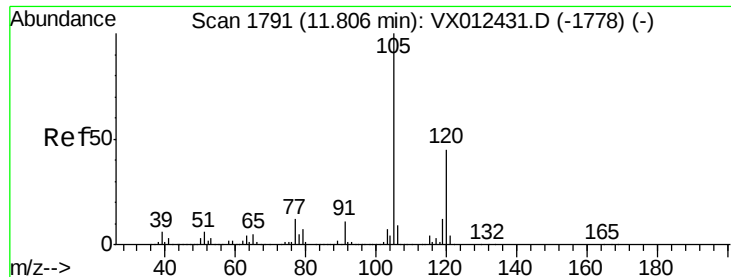
Tgt Ion: 91 Resp: 2461

Ion Ratio Lower Upper

91 100

120 29.2 11.3 33.8





#84

1,2,4-Trimethylbenzene

Concen: 1.468 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX012527.D

Acq: 19 Sep 2019 14:47

Instrument :

MSVOA\_X

ClientSampleId :

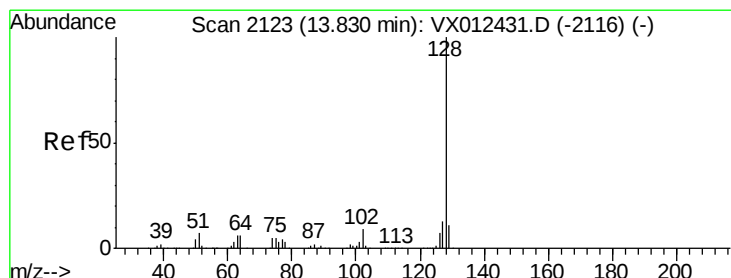
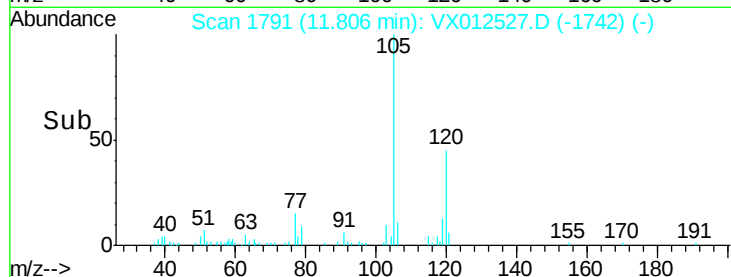
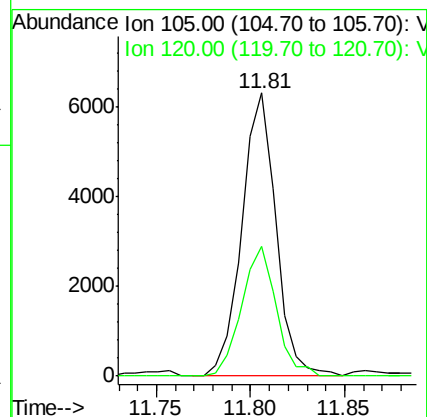
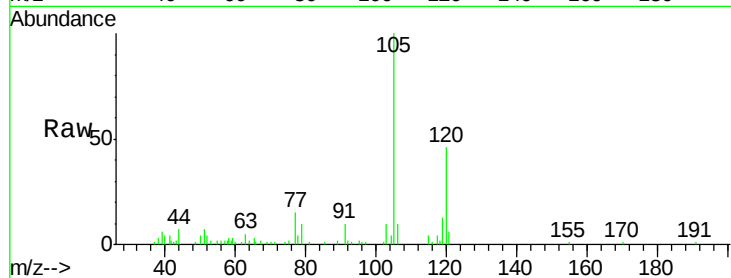
RE132D3-20190911

Tot Ion:105 Resp: 7934

Ion Ratio Lower Upper

105 100

120 46.2 22.2 66.6



#95

Naphthalene

Concen: 0.829 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX012527.D

Acq: 19 Sep 2019 14:47

Tgt Ion:128 Resp: 5625

Ion Ratio Lower Upper

128 100

127 16.9 10.2 15.4#

129 11.6 8.8 13.2

