

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072219\  
 Data File : VX011031.D  
 Acq On : 22 Jul 2019 15:26  
 Operator : JC/SP  
 Sample : K3884-21DL 10X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-0622DL

Manual Integrations  
 APPROVED

MMDadoda  
 7/23/2019 11:11:33 AM

Quant Time: Jul 23 05:43:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 20 04:05:59 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 5.66  | 168  | 230994   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.86  | 114  | 362005   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.11 | 117  | 338048   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08 | 152  | 167673   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 124148   | 50.52  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 101.04% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 112683   | 49.04  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 98.08%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 438795   | 50.92  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 101.84% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 163084   | 51.48  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 102.96% |          |
| Target Compounds            |       |      |          |        |         |          |
|                             |       |      |          |        | Qvalue  |          |
| 31) Cyclohexane             | 5.59  | 56   | 26002    | 7.793  | ug/l    | 99       |
| 39) Methylcyclohexane       | 7.46  | 83   | 55319    | 14.346 | ug/l    | 95       |
| 52) Toluene                 | 8.79  | 92   | 3328     | 0.556  | ug/l    | 90       |
| 67) Ethyl Benzene           | 10.25 | 91   | 494587   | 41.850 | ug/l    | 100      |
| 68) m/p-Xylenes             | 10.36 | 106  | 440580   | 97.186 | ug/l    | 99       |
| 69) o-Xylene                | 10.69 | 106  | 324959   | 73.448 | ug/l    | 99       |
| 73) Isopropylbenzene        | 11.02 | 105  | 61366    | 5.416  | ug/l    | 99       |
| 78) n-propylbenzene         | 11.36 | 91   | 78559    | 6.276  | ug/l    | 99       |
| 80) 1,3,5-Trimethylbenzene  | 11.51 | 105  | 101939   | 10.768 | ug/l    | 100      |
| 84) 1,2,4-Trimethylbenzene  | 11.80 | 105  | 349737   | 36.653 | ug/l    | 99       |
| 85) sec-Butylbenzene        | 11.94 | 105  | 9690m    | 0.889  | ug/l    |          |
| 86) p-Isopropyltoluene      | 12.06 | 119  | 9780     | 0.971  | ug/l    | 92       |
| 89) n-Butylbenzene          | 12.38 | 91   | 7514     | 0.872  | ug/l #  | 27       |
| 95) Naphthalene             | 13.83 | 128  | 48650    | 4.523  | ug/l    | 99       |

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

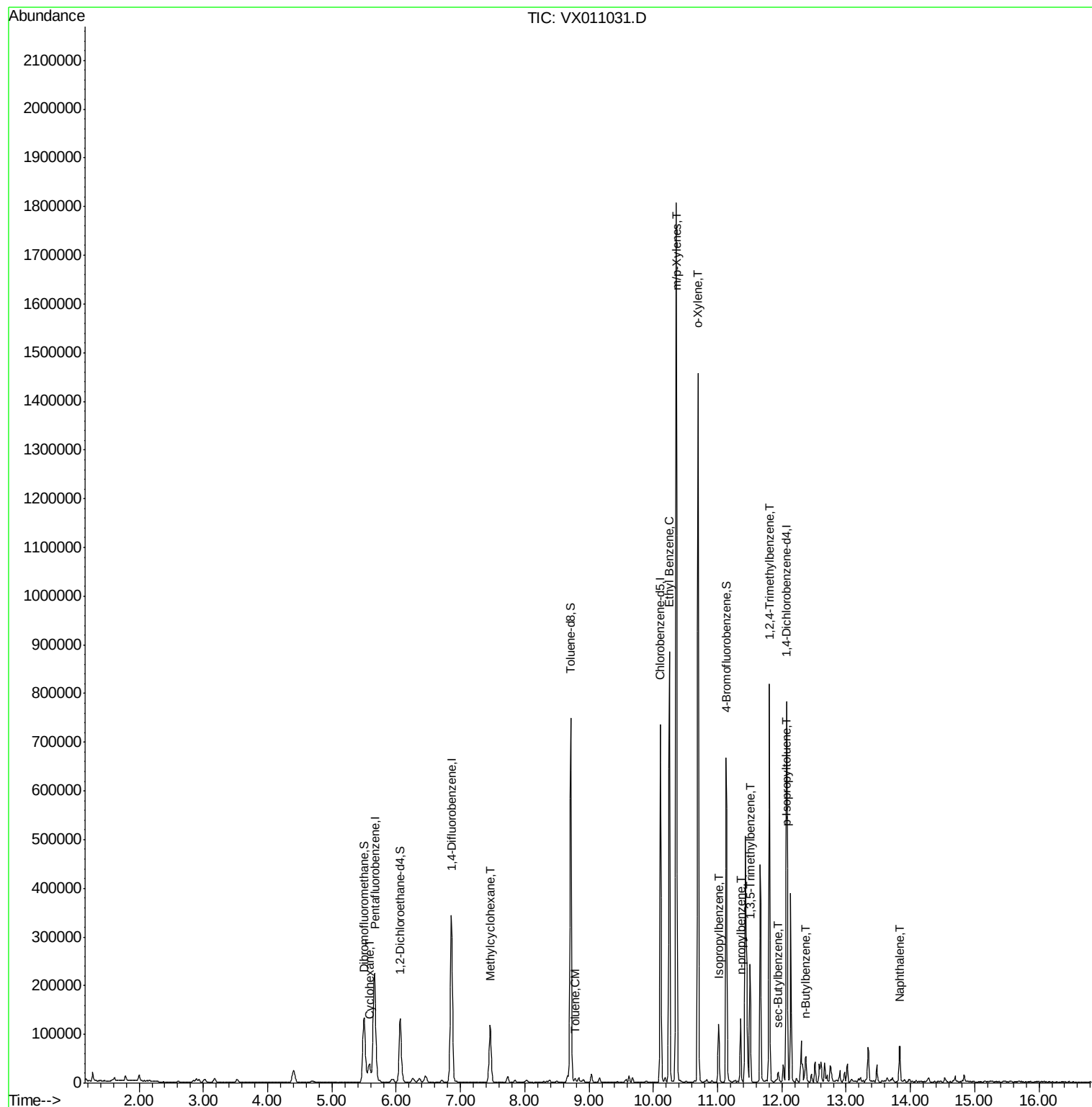
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX072219\  
Data File : VX011031.D  
Acq On : 22 Jul 2019 15:26  
Operator : JC/SP  
Sample : K3884-21DL 10X  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 14 Sample Multiplier: 1

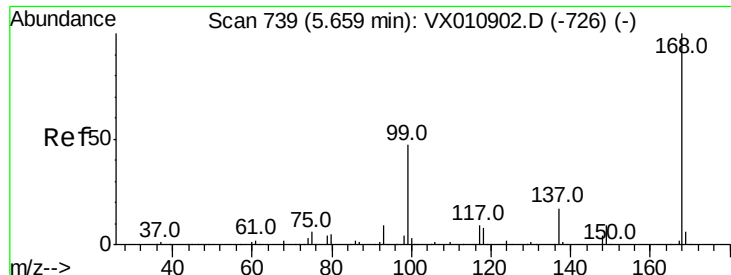
Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0622DL

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7/23/2019 11:11:33 AM

Quant Time: Jul 23 05:43:58 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 20 04:05:59 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011031.D

Acq: 22 Jul 2019 15:26

Instrument :

MSVOA\_X

ClientSampled :

FL-0622DL

Tot Ion:168 Resp: 230994

Ion Ratio Lower Upper

168 100

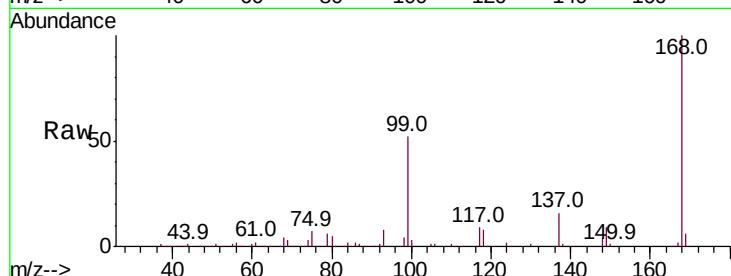
99 51.5 37.6 56.4

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

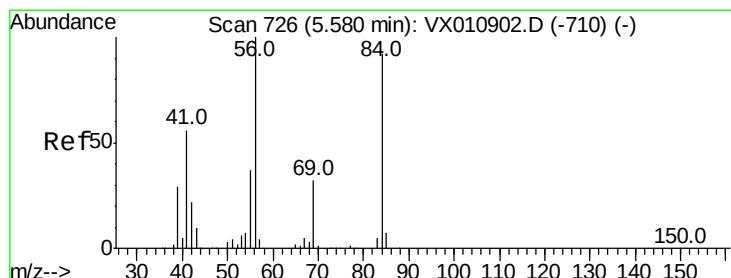
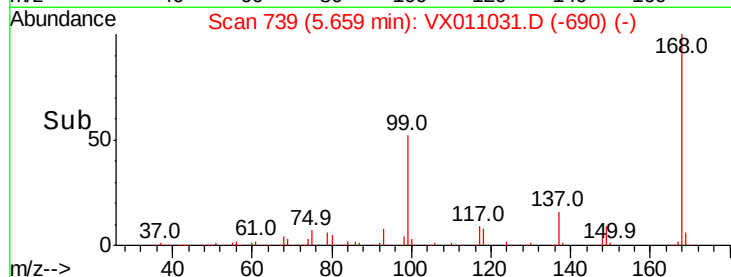
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#31

Cyclohexane

Concen: 7.793 ug/l

RT: 5.59 min Scan# 727

Delta R.T. 0.01 min

Lab File: VX011031.D

Acq: 22 Jul 2019 15:26

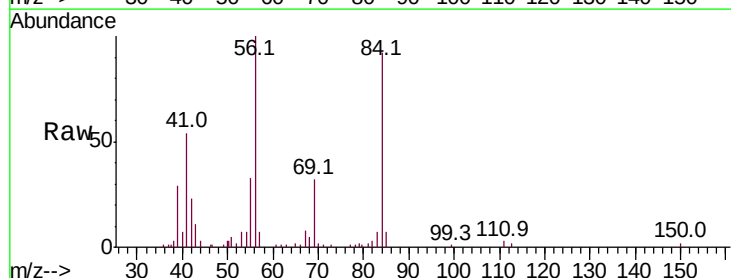
Tgt Ion: 56 Resp: 26002

Ion Ratio Lower Upper

56 100

69 32.4 25.8 38.8

84 90.8 73.8 110.6



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

10000

8000

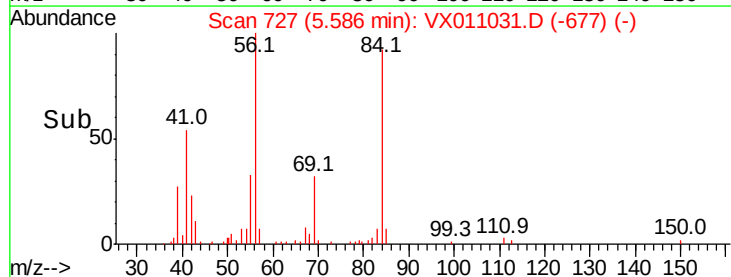
6000

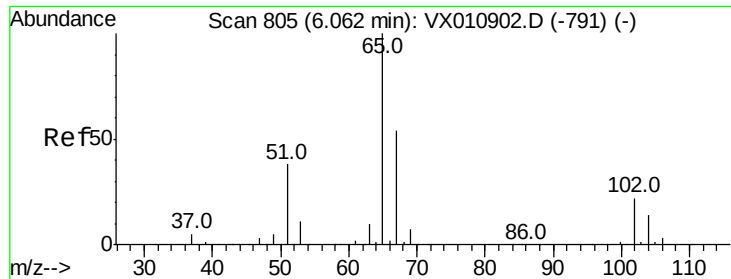
4000

2000

0

Time--> 5.45 5.50 5.55 5.60 5.65





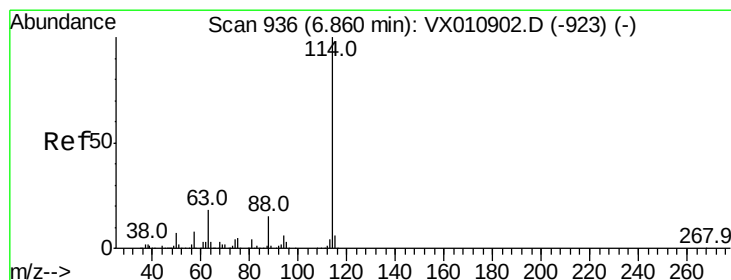
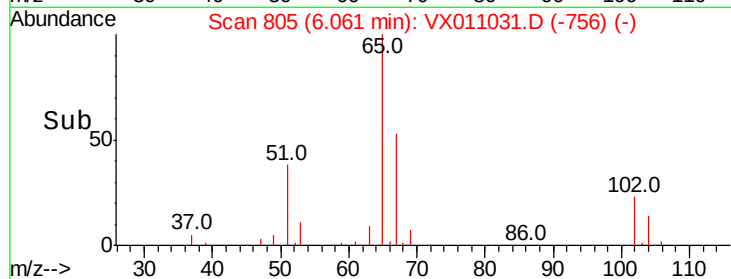
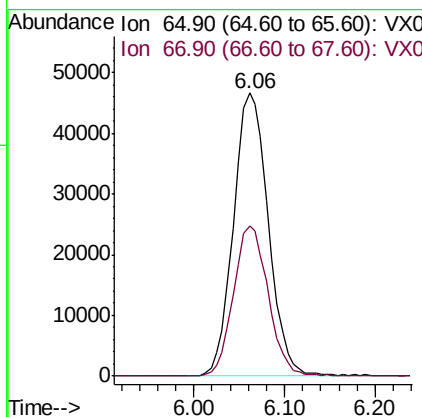
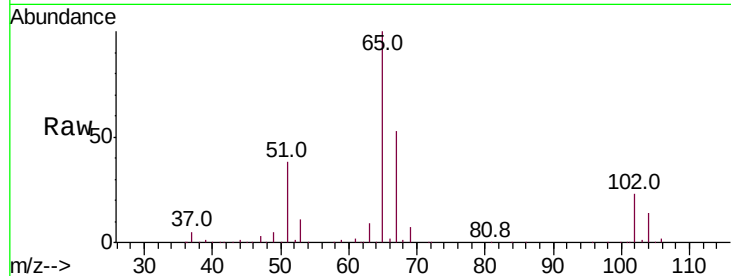
#33  
 1,2-Dichloroethane-d4  
 Concen: 50.520 ug/l  
 RT: 6.06 min Scan# 805  
 Delta R.T. -0.00 min  
 Lab File: VX011031.D  
 Acq: 22 Jul 2019 15:26

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 FL-0622DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 53.0  | 0.0   | 107.8 |

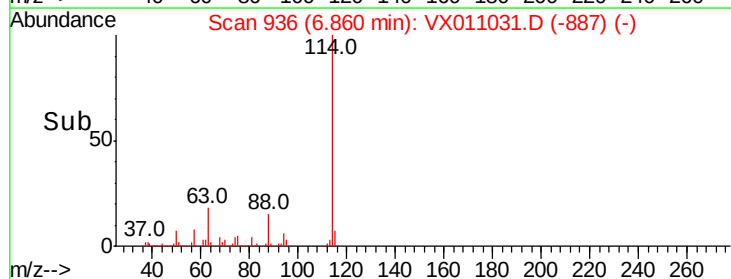
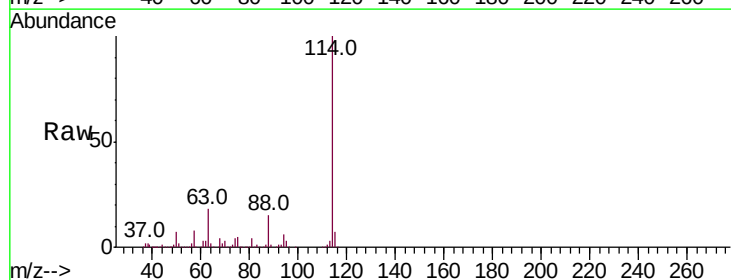
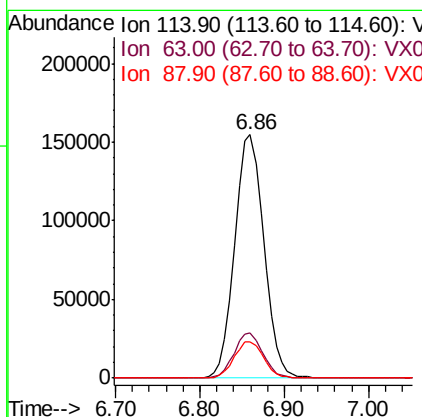
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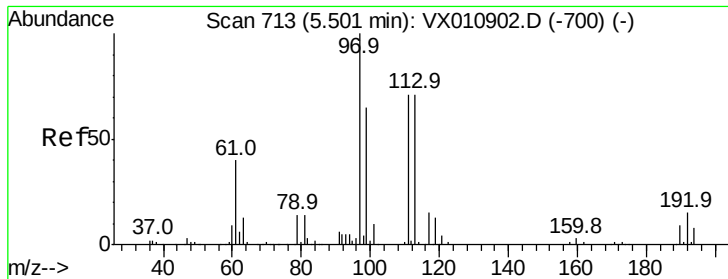
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX011031.D  
 Acq: 22 Jul 2019 15:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 18.4  | 0.0   | 35.6  |
| 88      | 15.0  | 0.0   | 29.8  |





#35

Dibromofluoromethane

Concen: 49.041 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011031.D

Acq: 22 Jul 2019 15:26

Instrument :

MSVOA\_X

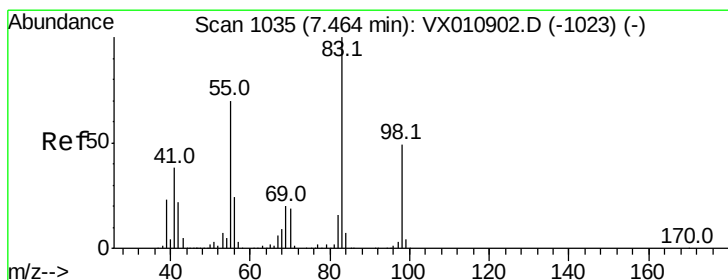
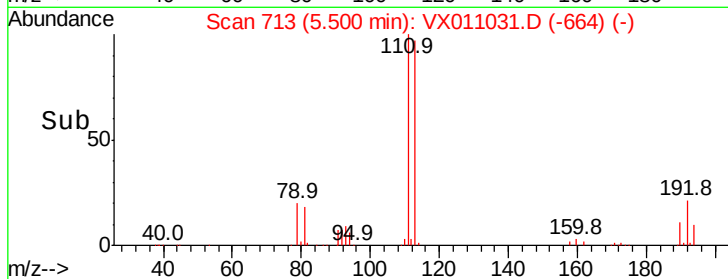
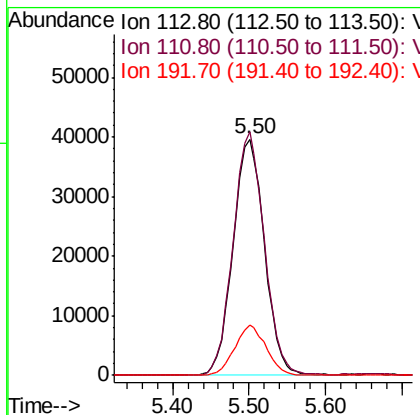
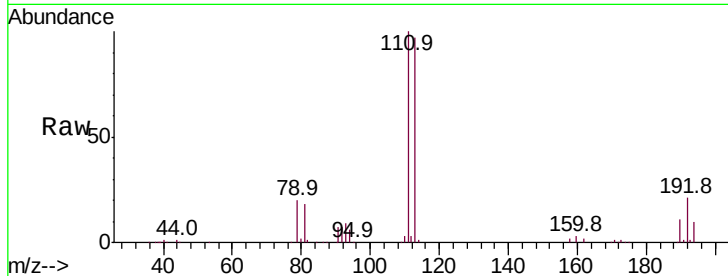
ClientSampled :

FL-0622DL

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 113   | Resp: | 112683 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 102.8 | 82.3  | 123.5  |
| 192      | 21.4  | 17.4  | 26.2   |

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#39

Methylcyclohexane

Concen: 14.346 ug/l

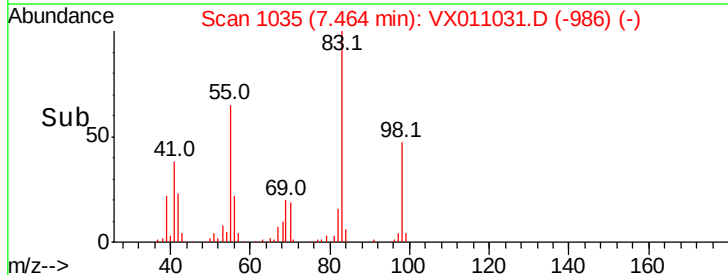
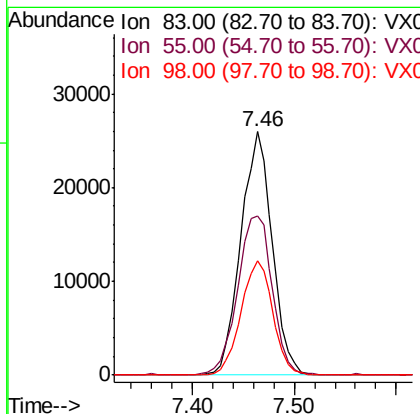
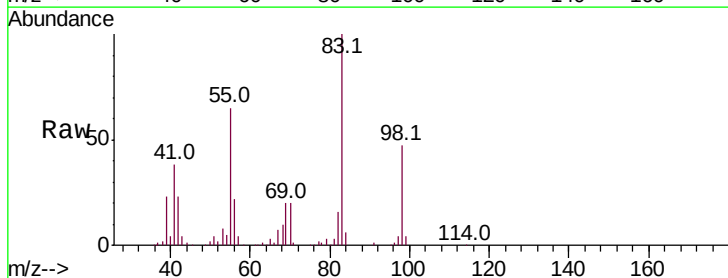
RT: 7.46 min Scan# 1035

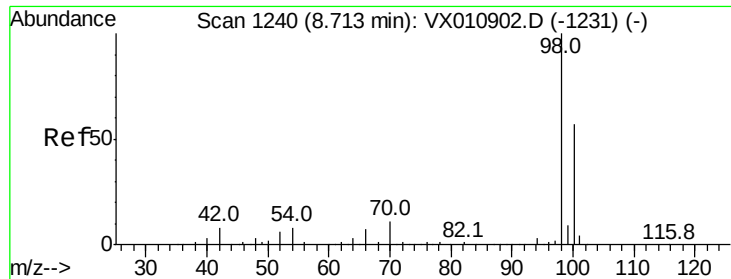
Delta R.T. -0.00 min

Lab File: VX011031.D

Acq: 22 Jul 2019 15:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 55319 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 65.1  | 56.2  | 84.4  |
| 98       | 47.0  | 39.0  | 58.4  |





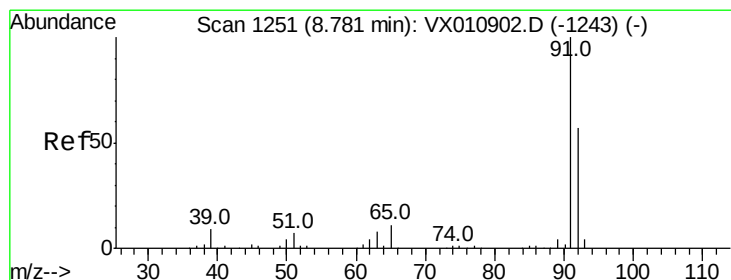
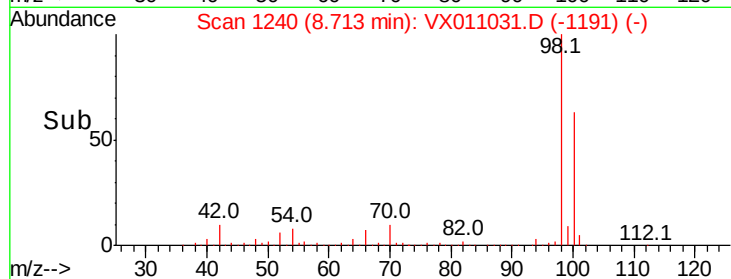
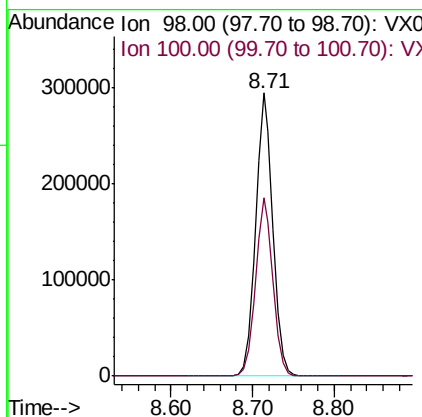
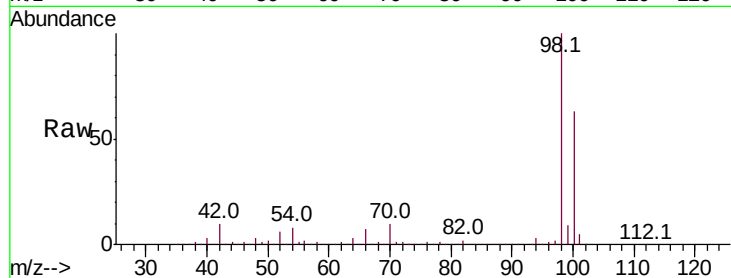
#50  
Toluene-d8  
Concen: 50.917 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.00 min  
Lab File: VX011031.D  
Acq: 22 Jul 2019 15:26

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0622DL

Tot Ion: 98 Resp: 438795  
Ion Ratio Lower Upper  
98 100  
100 63.4 50.6 75.8

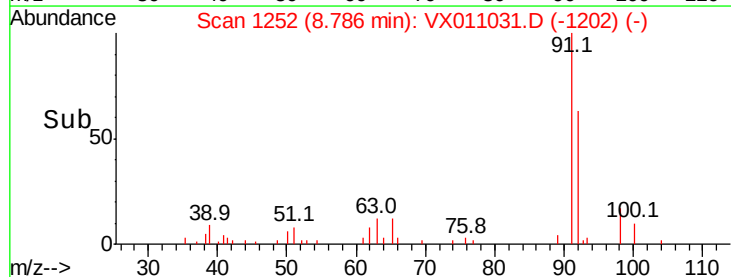
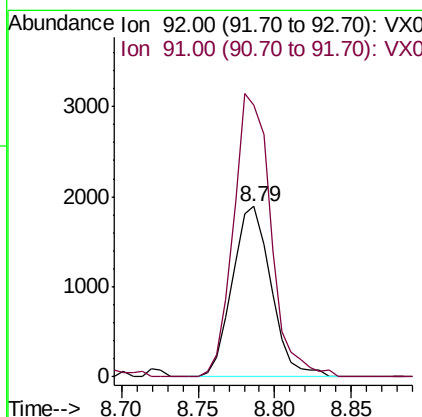
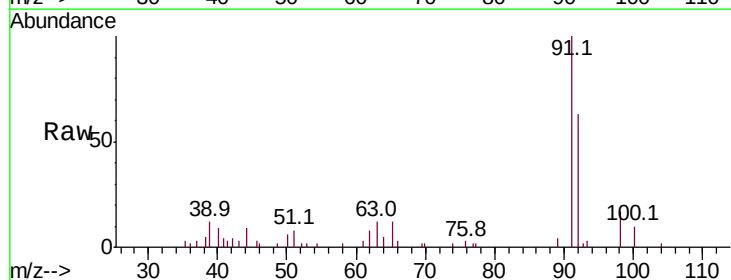
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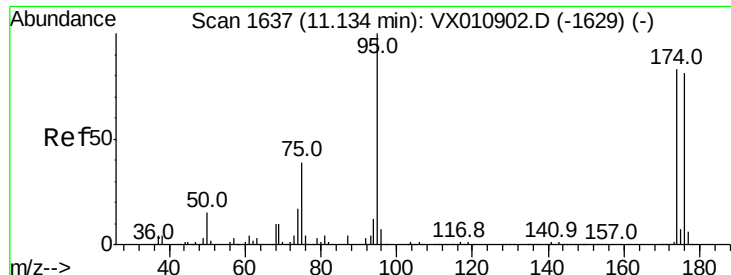
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#52  
Toluene  
Concen: 0.556 ug/l  
RT: 8.79 min Scan# 1252  
Delta R.T. 0.01 min  
Lab File: VX011031.D  
Acq: 22 Jul 2019 15:26

Tgt Ion: 92 Resp: 3328  
Ion Ratio Lower Upper  
92 100  
91 160.1 139.4 209.0





#62

4-Bromofluorobenzene

Concen: 51.484 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011031.D

Acq: 22 Jul 2019 15:26

Instrument :

MSVOA\_X

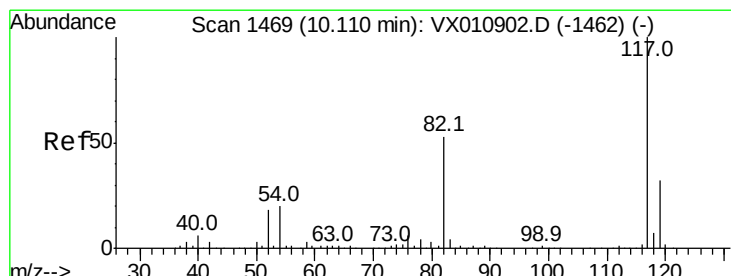
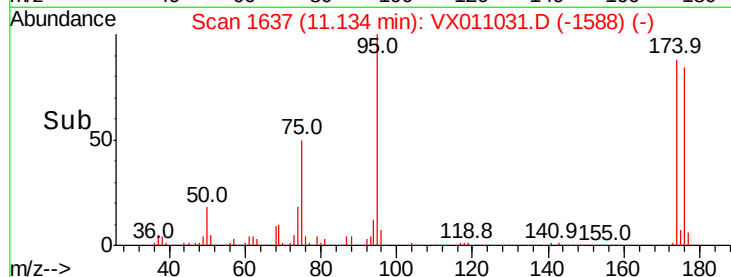
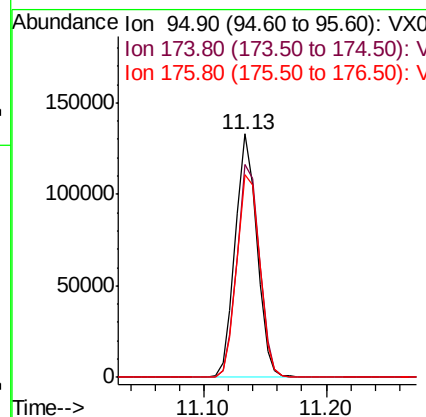
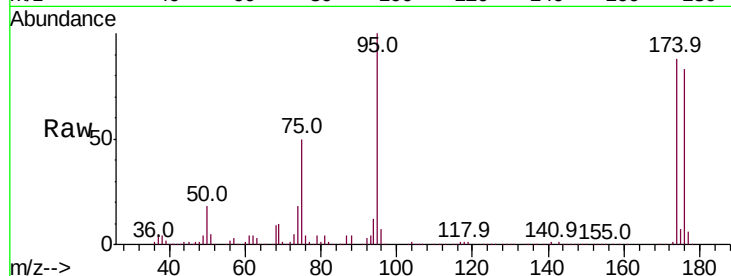
ClientSampleId :

FL-0622DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 95    | Resp: | 163084 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 90.8  | 0.0   | 180.6  |
| 176       | 88.1  | 0.0   | 173.8  |

Manual Integrations  
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7/23/2019 11:11:33 AM



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

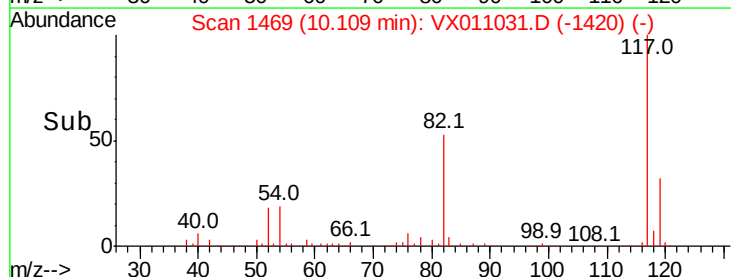
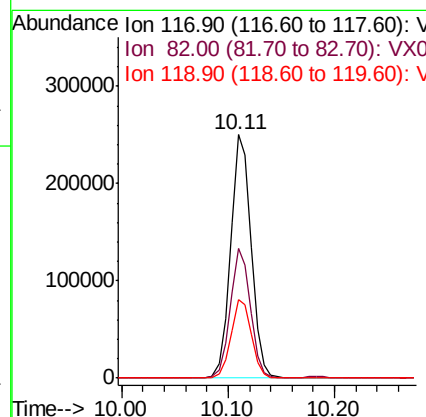
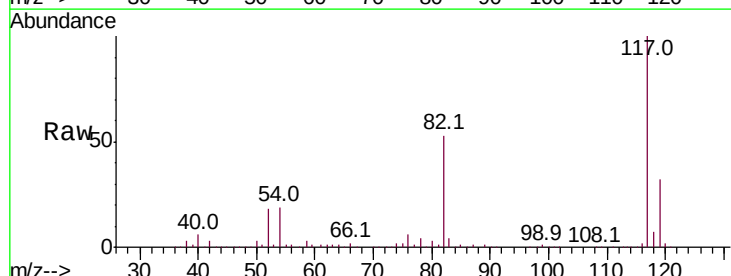
RT: 10.11 min Scan# 1469

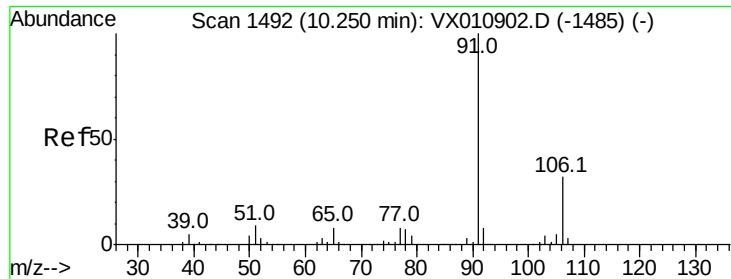
Delta R.T. -0.00 min

Lab File: VX011031.D

Acq: 22 Jul 2019 15:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 338048 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 53.2  | 42.6  | 63.8   |
| 119       | 32.1  | 25.9  | 38.9   |





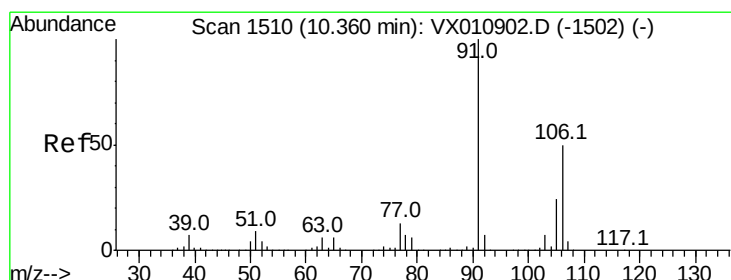
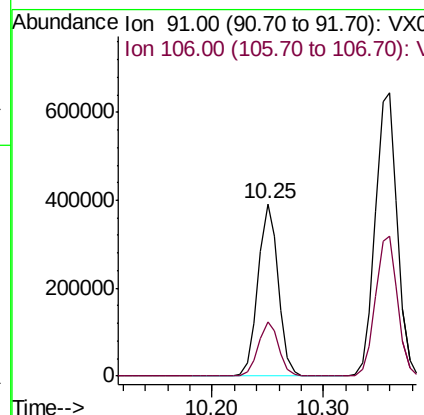
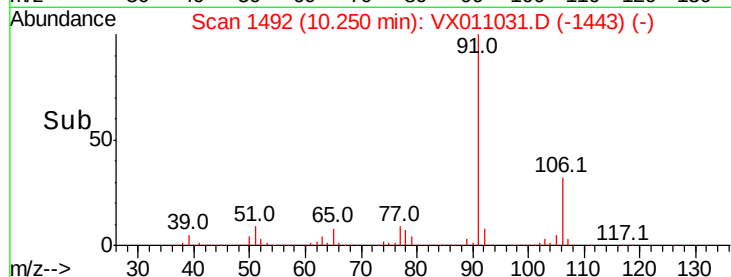
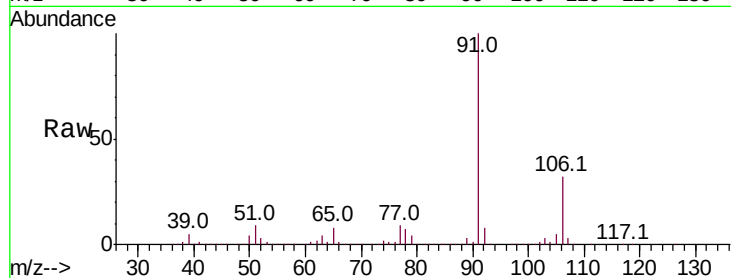
#67  
Ethyl Benzene  
Concen: 41.850 ug/l  
RT: 10.25 min Scan# 1492  
Delta R.T. -0.00 min  
Lab File: VX011031.D  
Acq: 22 Jul 2019 15:26

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-0622DL

Tot Ion: 91 Resp: 494587  
Ion Ratio Lower Upper  
91 100  
106 31.7 25.4 38.2

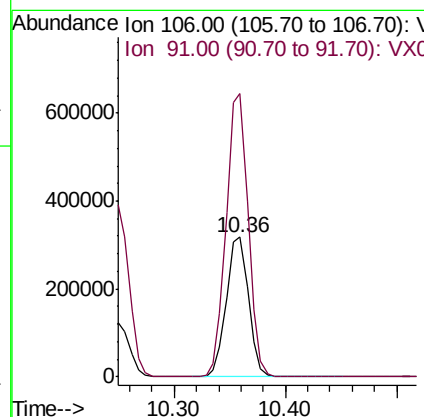
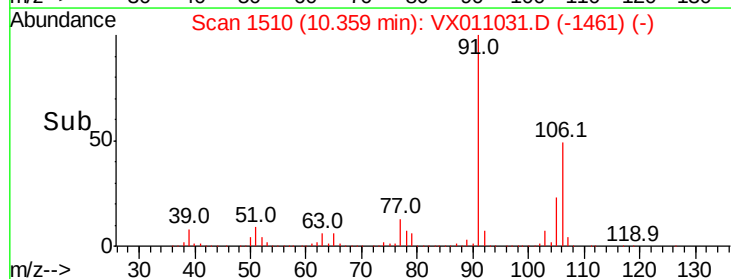
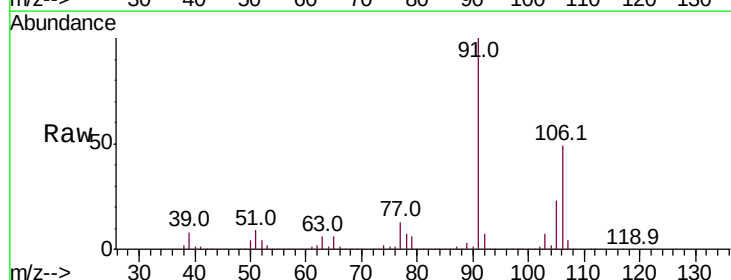
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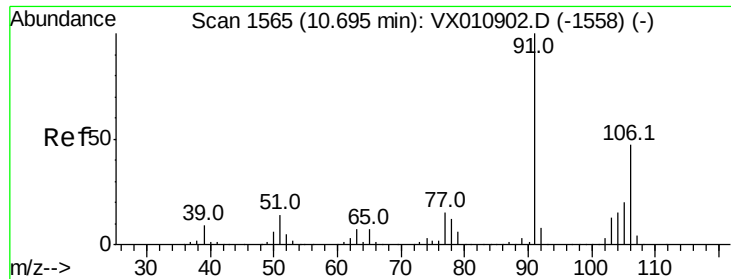


#68  
m/p-Xylenes  
Concen: 97.186 ug/l  
RT: 10.36 min Scan# 1510  
Delta R.T. -0.00 min  
Lab File: VX011031.D  
Acq: 22 Jul 2019 15:26

Tgt Ion: 106 Resp: 440580  
Ion Ratio Lower Upper  
106 100  
91 201.2 160.1 240.1







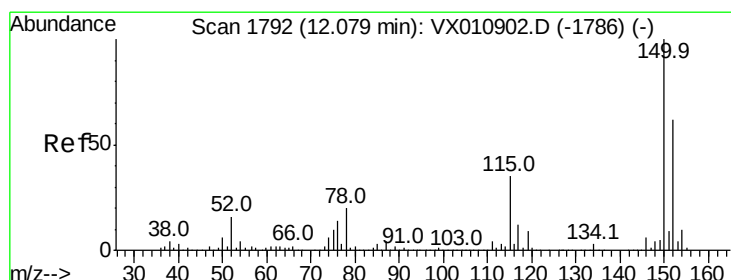
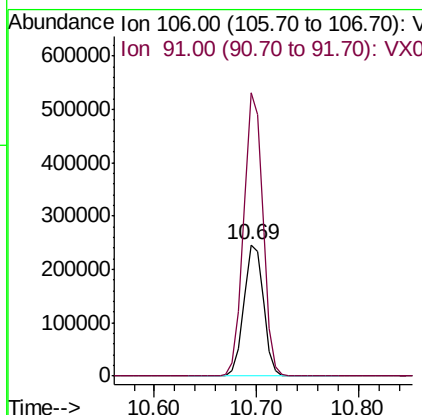
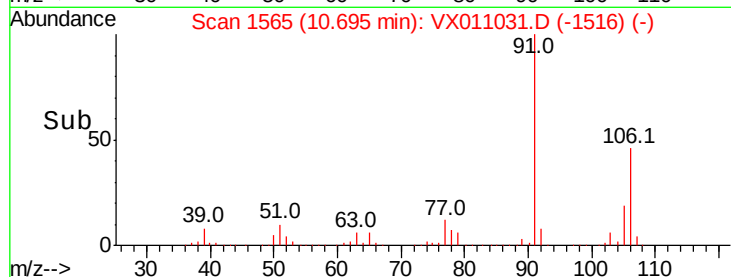
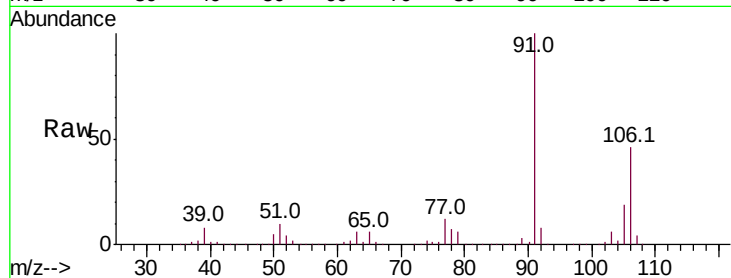
#69  
o-Xylene  
Concen: 73.448 ug/l  
RT: 10.69 min Scan# 1565  
Delta R.T. -0.00 min  
Lab File: VX011031.D  
Acq: 22 Jul 2019 15:26

Instrument :  
MSVOA\_X  
ClientSampleID :  
FL-0622DL

Tot Ion:106 Resp: 324959  
Ion Ratio Lower Upper  
106 100  
91 212.1 105.1 315.3

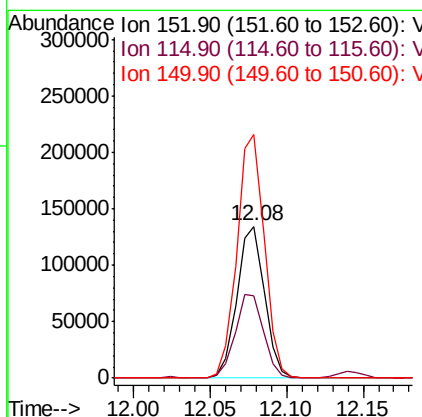
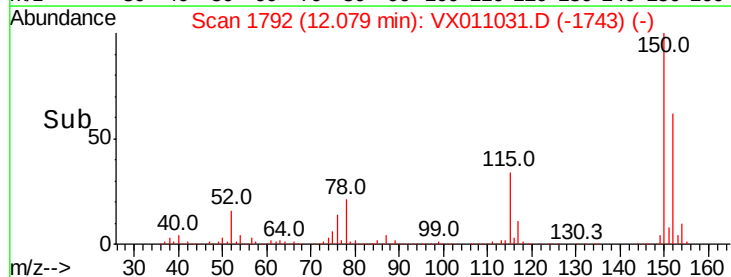
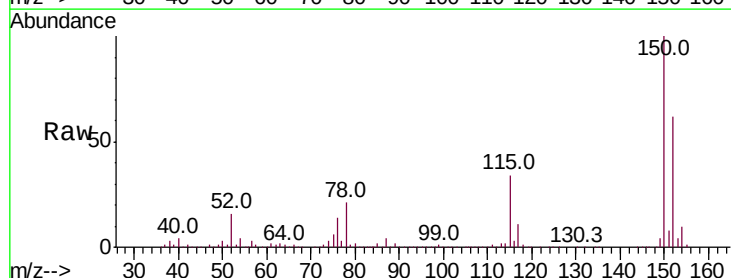
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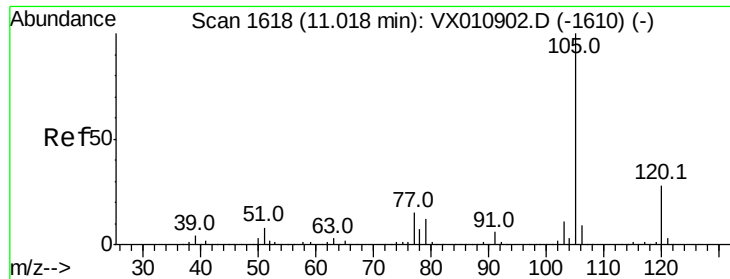
MMDadoda  
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#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX011031.D  
Acq: 22 Jul 2019 15:26

Tgt Ion:152 Resp: 167673  
Ion Ratio Lower Upper  
152 100  
115 56.5 39.7 119.1  
150 159.8 0.0 345.6





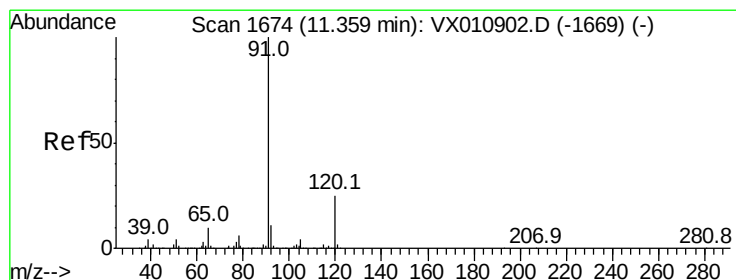
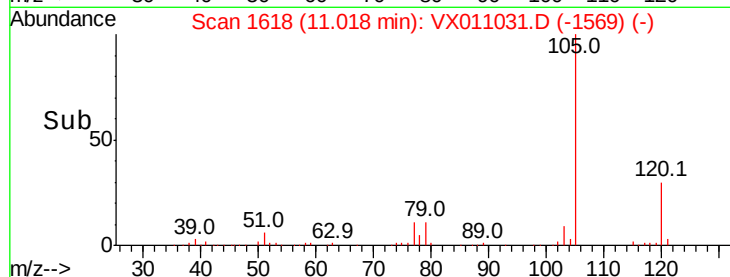
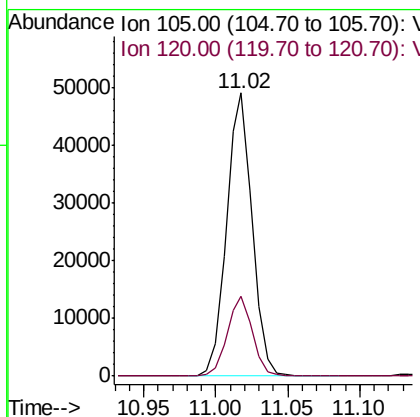
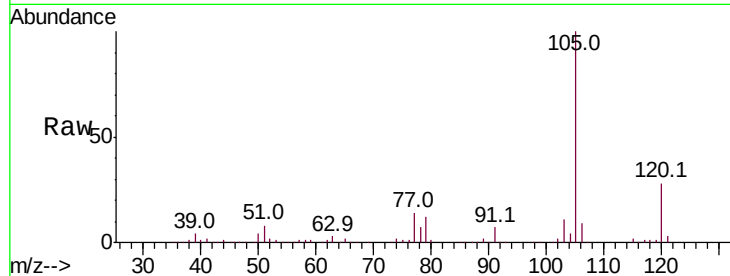
#73  
Isopropylbenzene  
Concen: 5.416 ug/l  
RT: 11.02 min Scan# 1618  
Delta R.T. -0.00 min  
Lab File: VX011031.D  
Acq: 22 Jul 2019 15:26

Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0622DL

Tot Ion: 105 Resp: 61366  
Ion Ratio Lower Upper  
105 100  
120 27.8 13.7 41.1

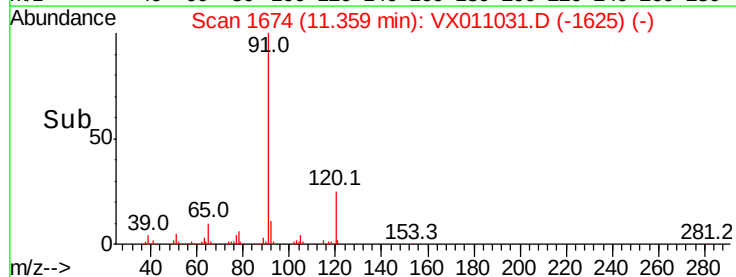
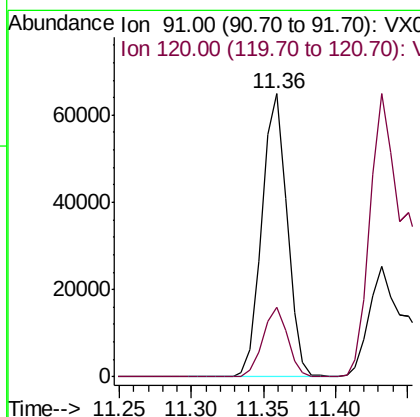
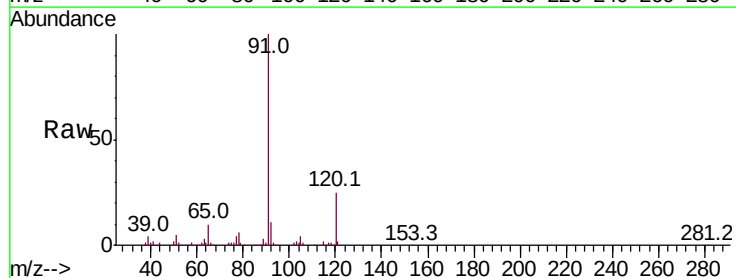
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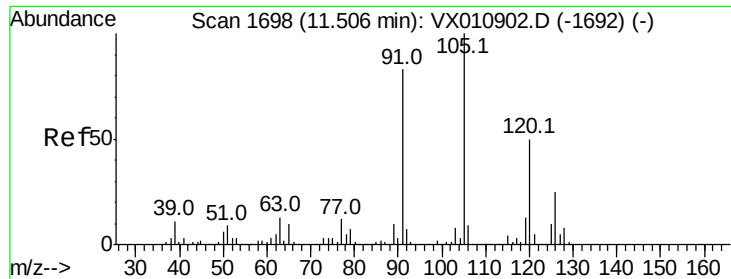
MMDadoda  
7/23/2019 11:11:33 AM



#78  
n-propylbenzene  
Concen: 6.276 ug/l  
RT: 11.36 min Scan# 1674  
Delta R.T. -0.00 min  
Lab File: VX011031.D  
Acq: 22 Jul 2019 15:26

Tgt Ion: 91 Resp: 78559  
Ion Ratio Lower Upper  
91 100  
120 24.1 12.3 36.8





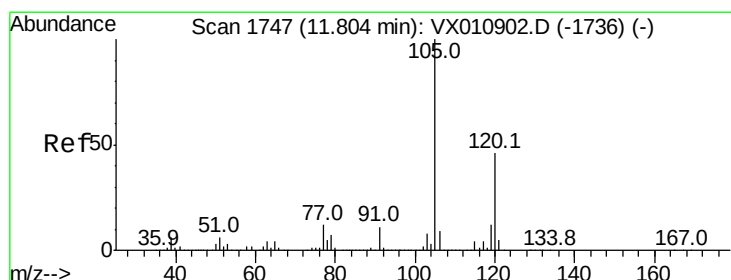
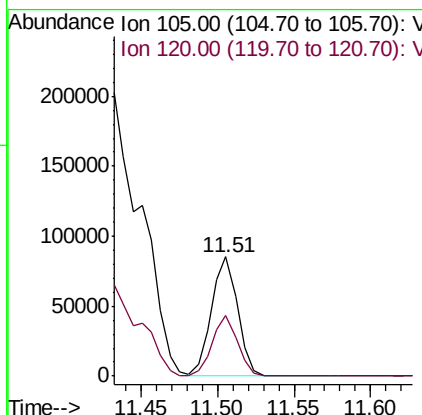
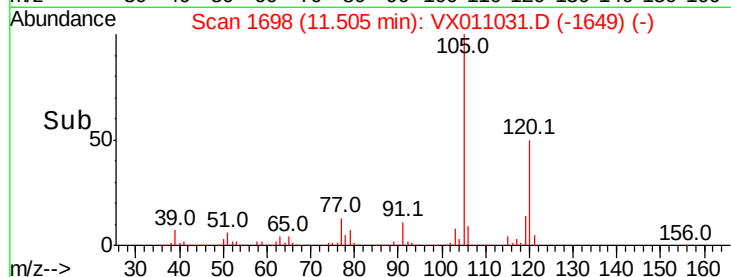
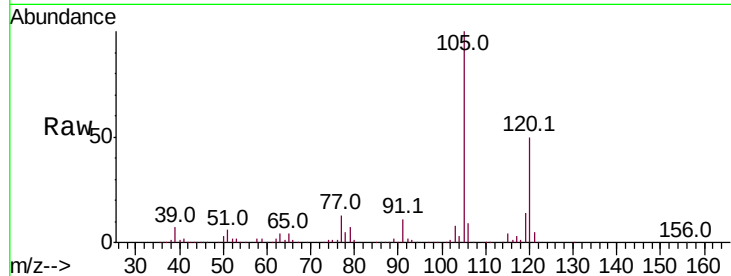
#80  
 1,3,5-Trimethylbenzene  
 Concen: 10.768 ug/l  
 RT: 11.51 min Scan# 1698  
 Delta R.T. -0.00 min  
 Lab File: VX011031.D  
 Acq: 22 Jul 2019 15:26

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 FL-0622DL

Tot Ion:105 Resp: 101939  
 Ion Ratio Lower Upper  
 105 100  
 120 49.2 24.6 73.8

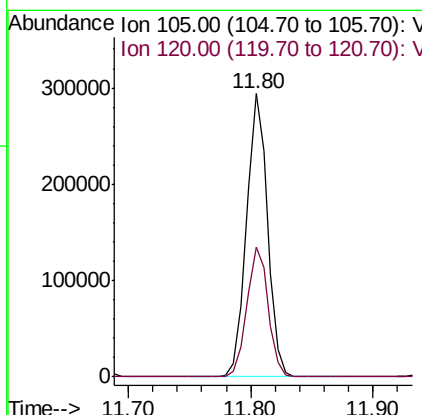
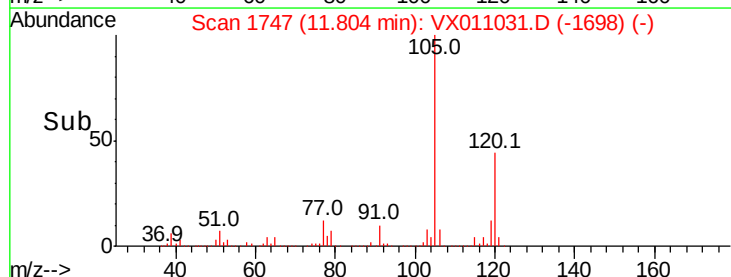
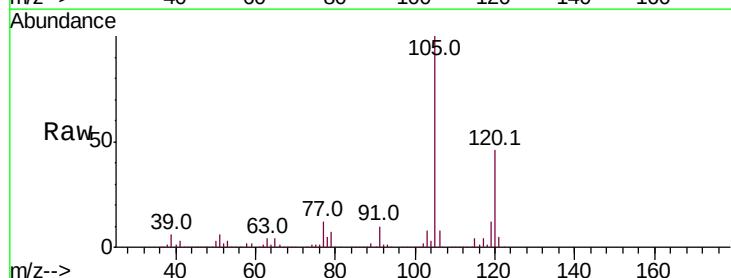
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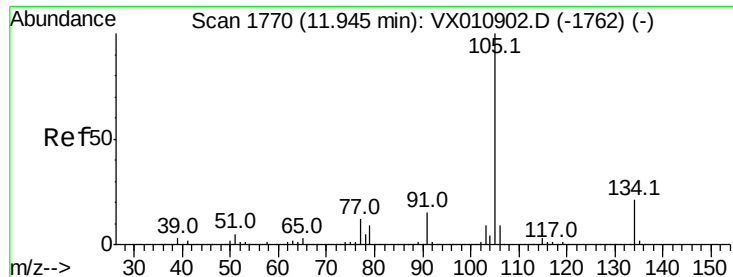
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#84  
 1,2,4-Trimethylbenzene  
 Concen: 36.653 ug/l  
 RT: 11.80 min Scan# 1747  
 Delta R.T. -0.00 min  
 Lab File: VX011031.D  
 Acq: 22 Jul 2019 15:26

Tgt Ion:105 Resp: 349737  
 Ion Ratio Lower Upper  
 105 100  
 120 46.5 22.9 68.5





#85

sec-Butylbenzene

Concen: 0.889 ug/l m

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX011031.D

Acq: 22 Jul 2019 15:26

Instrument :

MSVOA\_X

ClientSampleId :

FL-0622DL

Tot Ion:105 Resp: 9690

Ion Ratio Lower Upper

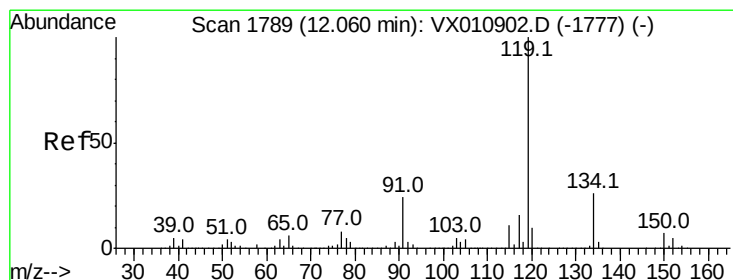
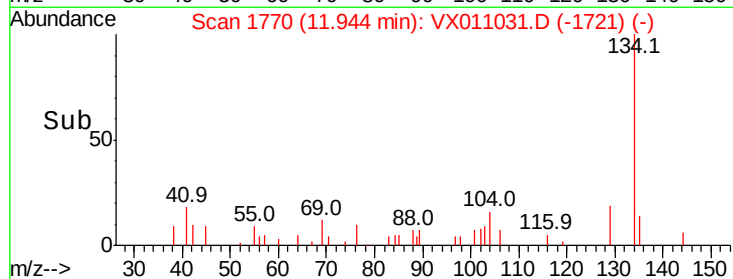
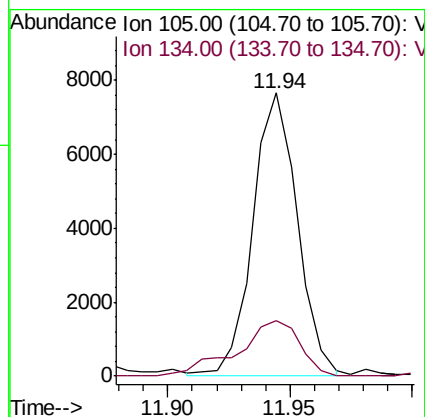
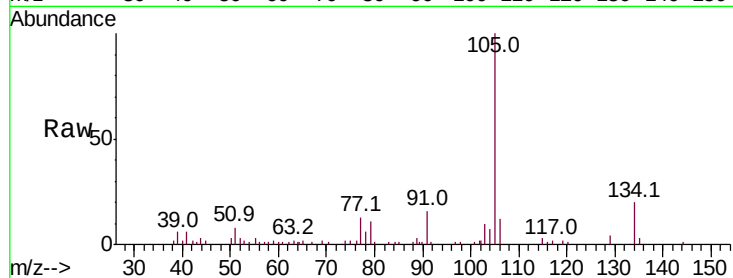
105 100

134 0.0 10.4 31.4#

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#86

p-Isopropyltoluene

Concen: 0.971 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX011031.D

Acq: 22 Jul 2019 15:26

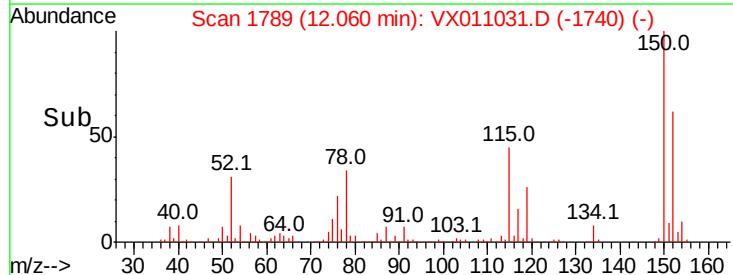
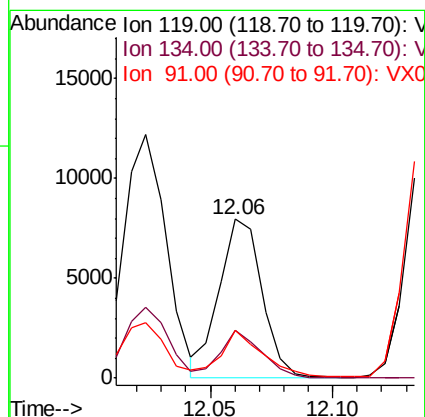
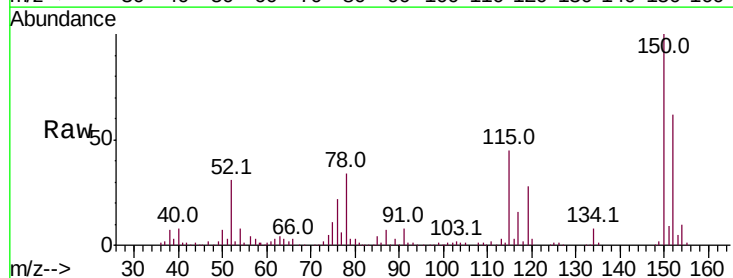
Tgt Ion:119 Resp: 9780

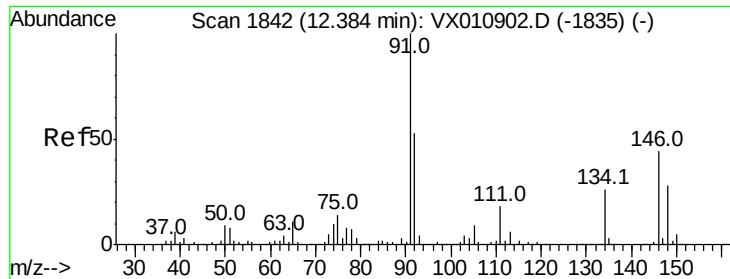
Ion Ratio Lower Upper

119 100

134 28.9 13.4 40.1

91 30.0 11.8 35.4





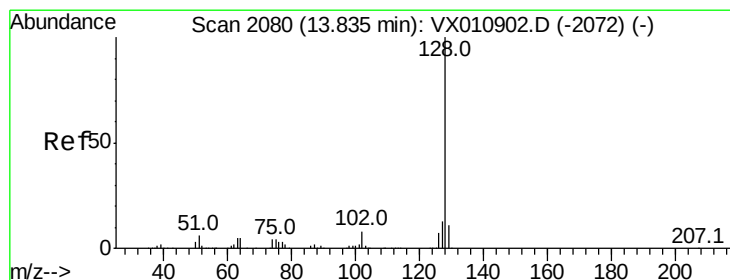
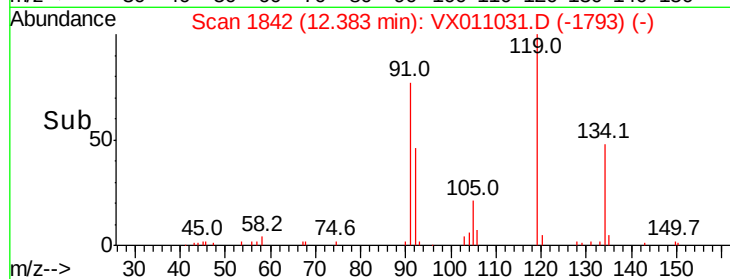
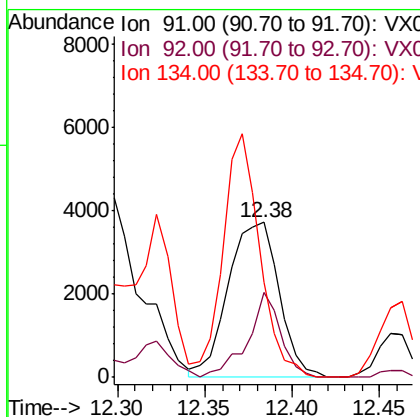
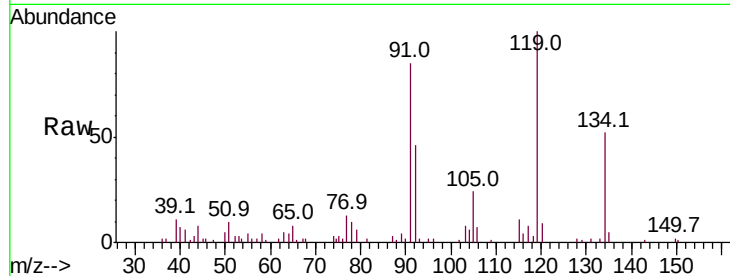
#89  
n-Butylbenzene  
Concen: 0.872 ug/l  
RT: 12.38 min Scan# 1842  
Delta R.T. -0.00 min  
Lab File: VX011031.D  
Acq: 22 Jul 2019 15:26

Instrument :  
MSVOA\_X  
ClientSampled :  
FL-0622DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 35.3  | 26.2  | 78.5  |
| 134     | 114.0 | 13.8  | 41.3# |

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#95  
Naphthalene  
Concen: 4.523 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. -0.00 min  
Lab File: VX011031.D  
Acq: 22 Jul 2019 15:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.3  | 10.4  | 15.6  |
| 129     | 11.3  | 8.9   | 13.3  |

