

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF111518\  
 Data File : VF060748.D  
 Acq On : 15 Nov 2018 15:53  
 Operator : VA/AP  
 Sample : J5767-09  
 Misc : 7.95g/5mL/MSVOA-F/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 CL-01-111418-A

Quant Time: Nov 16 04:53:10 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 14 03:11:14 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.86  | 168  | 238213   | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 5.59  | 114  | 421472   | 50.00 | ug/l  | -0.03    |
| 63) Chlorobenzene-d5       | 9.76  | 117  | 356409   | 50.00 | ug/l  | -0.03    |
| 72) 1,4-Dichlorobenzene-d4 | 12.54 | 152  | 206394   | 50.00 | ug/l  | -0.02    |

|                             |        |     |          |       |        |       |
|-----------------------------|--------|-----|----------|-------|--------|-------|
| System Monitoring Compounds |        |     |          |       |        |       |
| 33) 1,2-Dichloroethane-d4   | 4.83   | 65  | 114411   | 42.11 | ug/l   | -0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 84.22% |       |
| 35) Dibromofluoromethane    | 4.10   | 113 | 140944   | 44.49 | ug/l   | -0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 88.98% |       |
| 50) Toluene-d8              | 7.54   | 98  | 327794   | 39.55 | ug/l   | -0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 79.10% |       |
| 62) 4-Bromofluorobenzene    | 11.40  | 95  | 168922   | 44.62 | ug/l   | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 89.24% |       |

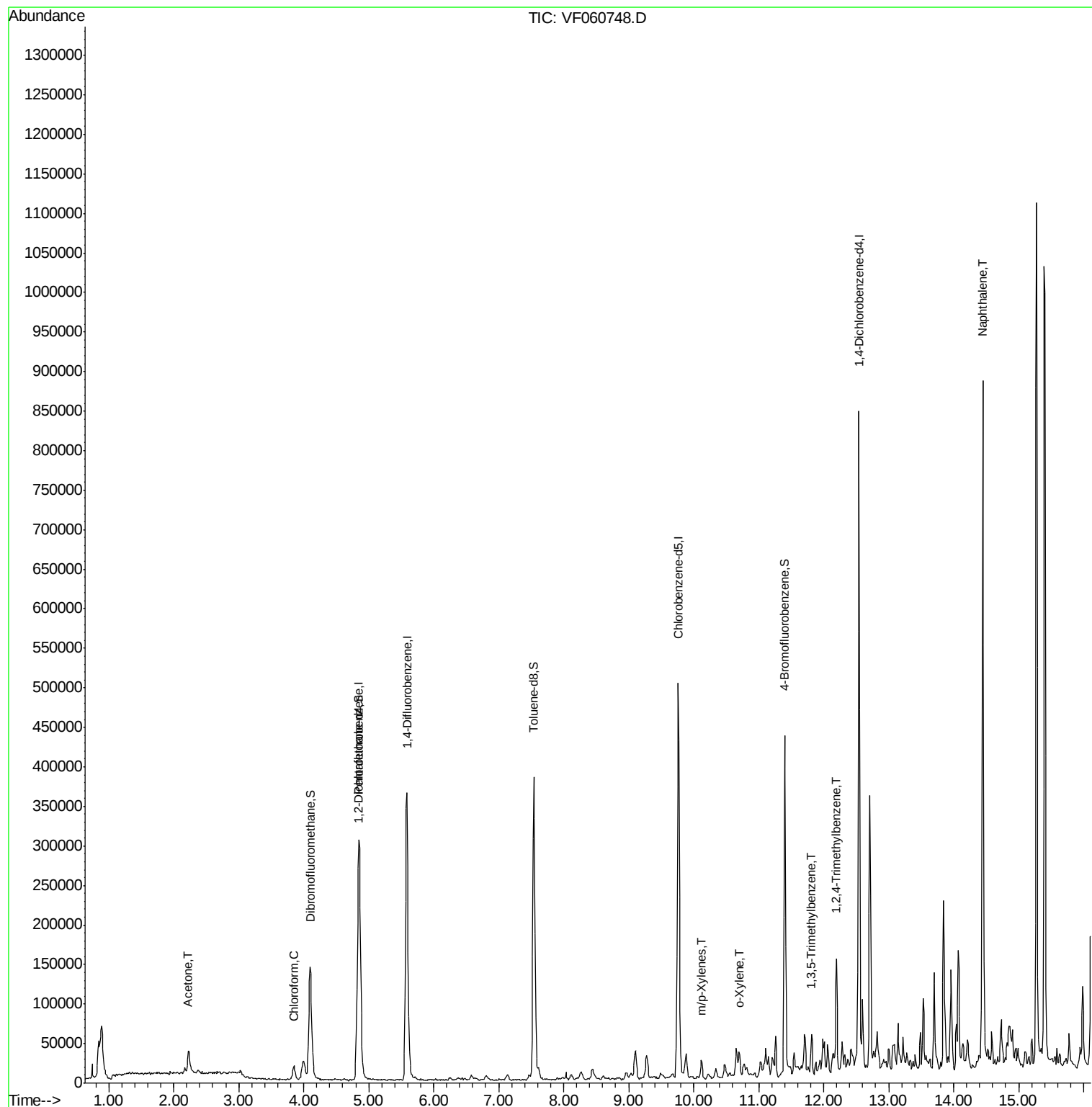
| Target Compounds           |       |     |        |       |      | Qvalue |
|----------------------------|-------|-----|--------|-------|------|--------|
| 16) Acetone                | 2.22  | 43  | 44675  | 76.92 | ug/l | 99     |
| 30) Chloroform             | 3.85  | 83  | 19045  | 2.98  | ug/l | 99     |
| 68) m/p-Xylenes            | 10.12 | 106 | 8211   | 1.69  | ug/l | 96     |
| 69) o-Xylene               | 10.70 | 106 | 8000   | 1.47  | ug/l | 98     |
| 80) 1,3,5-Trimethylbenzene | 11.81 | 105 | 23955  | 1.82  | ug/l | 93     |
| 84) 1,2,4-Trimethylbenzene | 12.20 | 105 | 57961  | 4.25  | ug/l | 97     |
| 95) Naphthalene            | 14.45 | 128 | 596062 | 70.14 | ug/l | 99     |

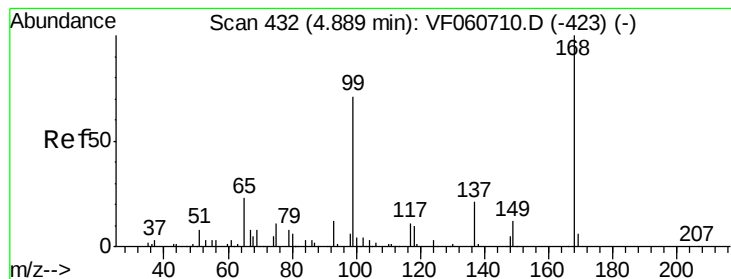
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 16 04:53:10 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 14 03:11:14 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.03 min

Lab File: VF060748.D

Acq: 15 Nov 2018 15:53

Instrument :

MSVOA\_F

ClientSampleId :

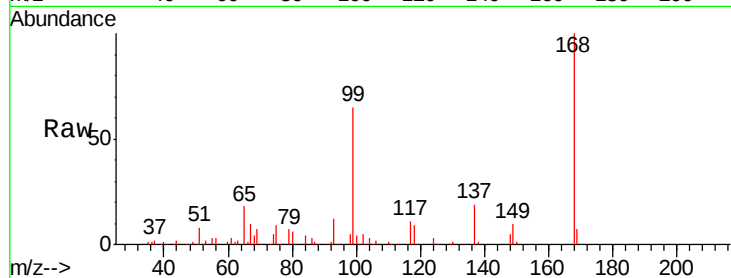
CL-01-111418-A

Tgt Ion:168 Resp: 238213

Ion Ratio Lower Upper

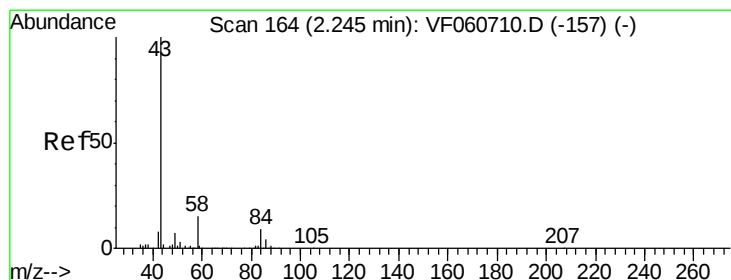
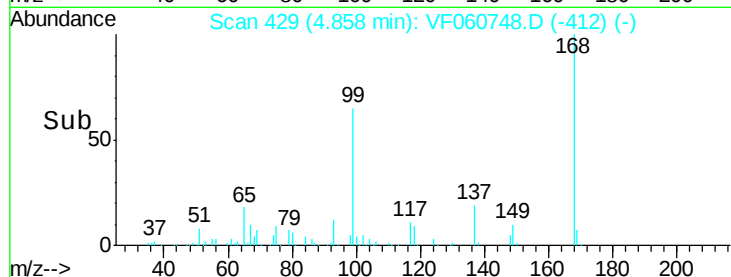
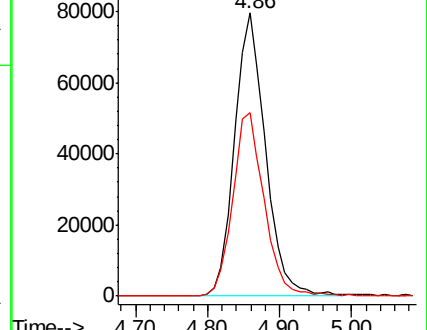
168 100

99 64.9 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#16

Acetone

Concen: 76.92 ug/l

RT: 2.22 min Scan# 162

Delta R.T. -0.02 min

Lab File: VF060748.D

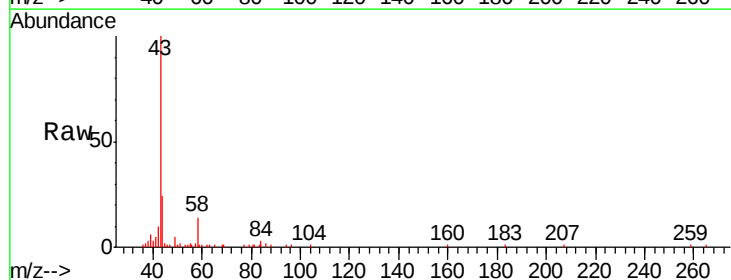
Acq: 15 Nov 2018 15:53

Tgt Ion: 43 Resp: 44675

Ion Ratio Lower Upper

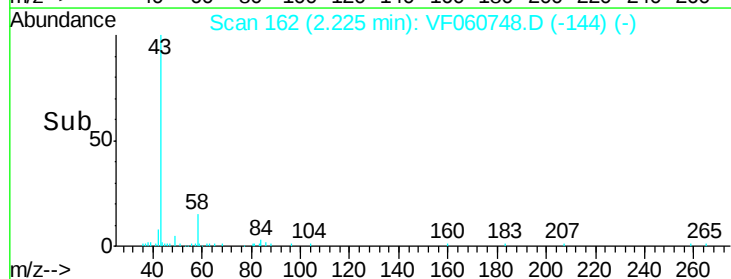
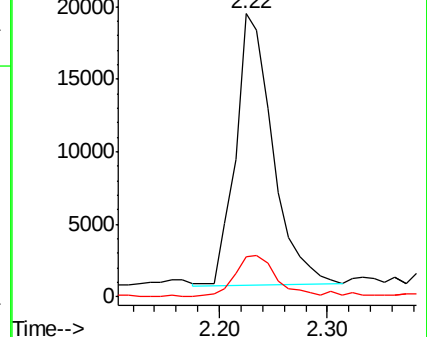
43 100

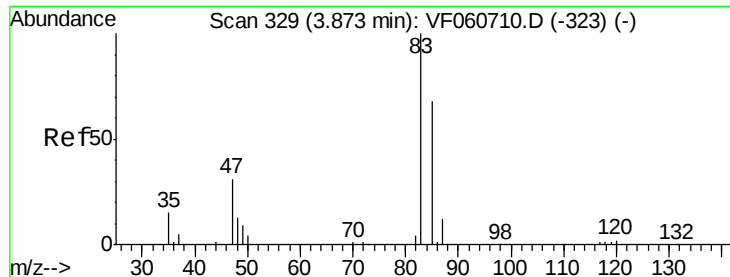
58 14.2 11.6 17.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

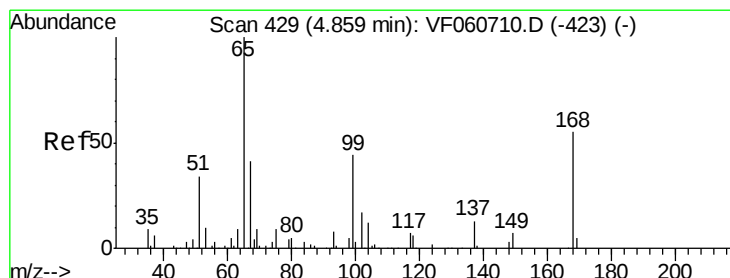
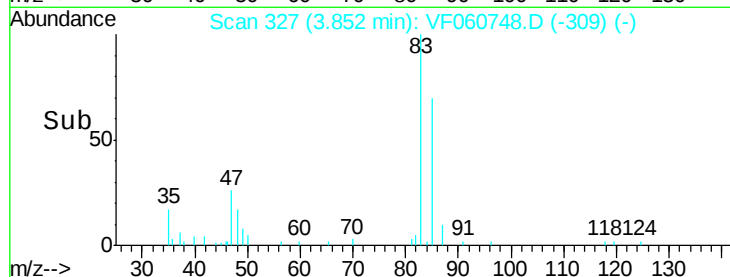
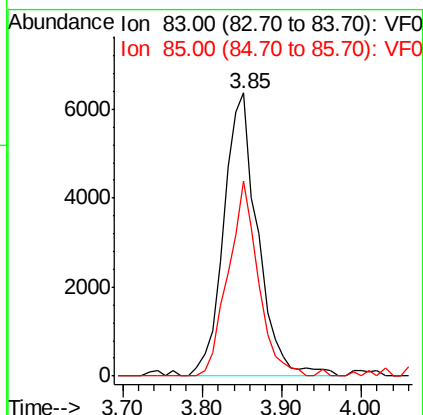
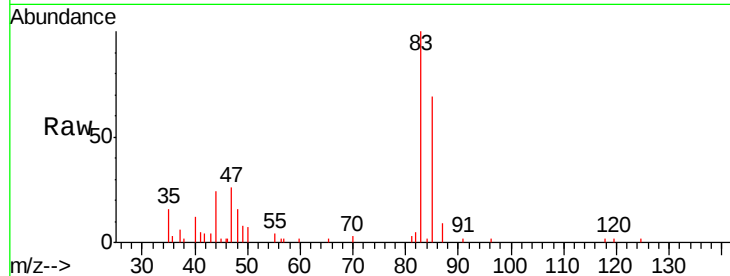




#30  
Chloroform  
Concen: 2.98 ug/l  
RT: 3.85 min Scan# 327  
Delta R.T. -0.02 min  
Lab File: VF060748.D  
Acq: 15 Nov 2018 15:53

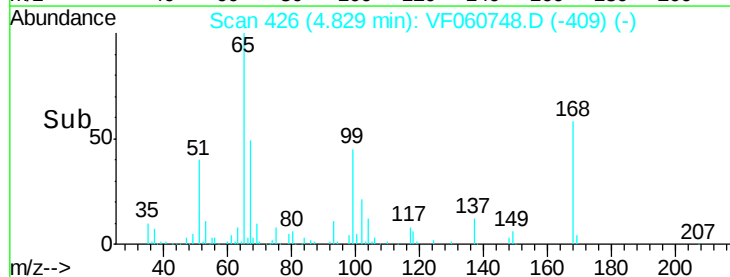
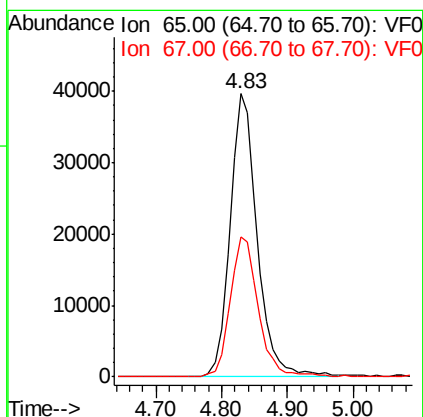
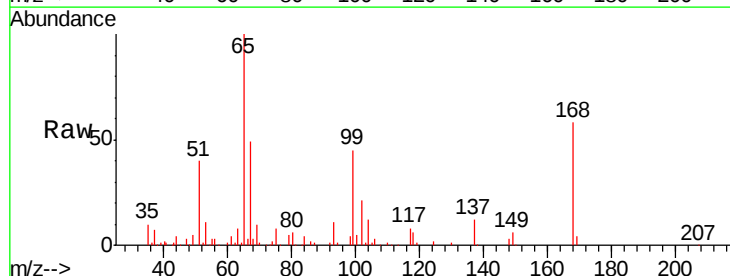
Instrument :  
MSVOA\_F  
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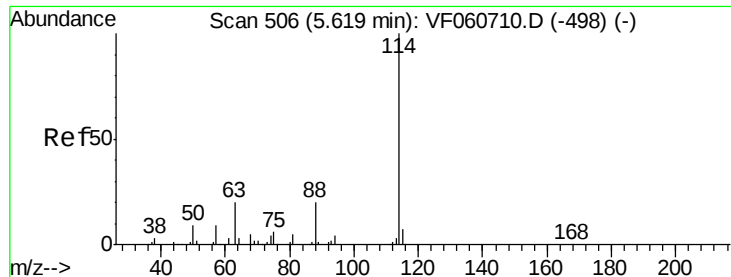
Tgt Ion: 83 Resp: 19045  
Ion Ratio Lower Upper  
83 100  
85 68.9 54.6 82.0



#33  
1,2-Dichloroethane-d4  
Concen: 42.11 ug/l  
RT: 4.83 min Scan# 426  
Delta R.T. -0.03 min  
Lab File: VF060748.D  
Acq: 15 Nov 2018 15:53

Tgt Ion: 65 Resp: 114411  
Ion Ratio Lower Upper  
65 100  
67 49.5 0.0 90.2





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.03 min

Lab File: VF060748.D

Acq: 15 Nov 2018 15:53

Instrument :

MSVOA\_F

ClientSampleId :

CL-01-111418-A

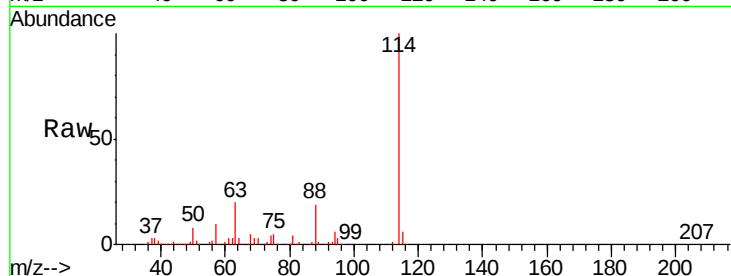
Tgt Ion:114 Resp: 421472

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.8

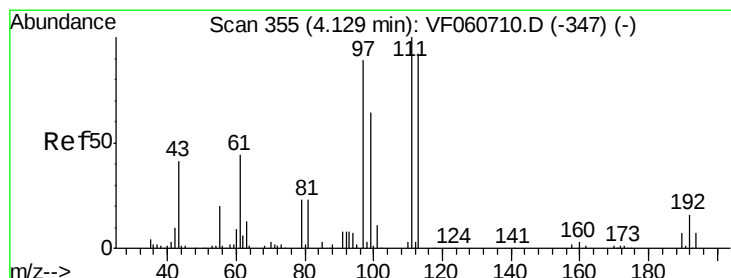
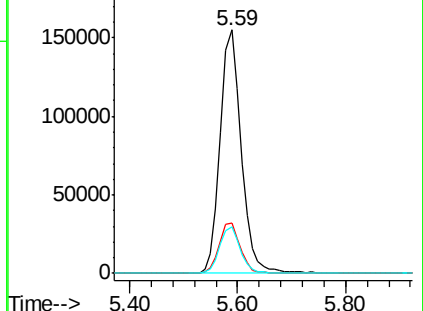
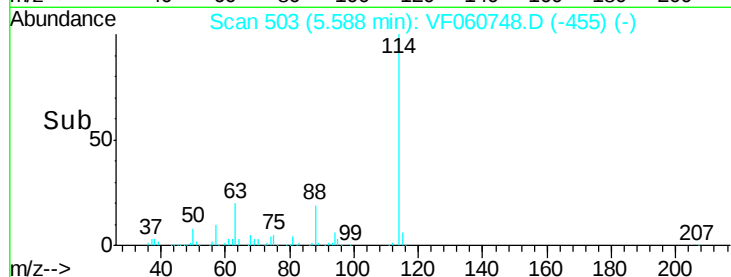
88 19.1 0.0 39.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 44.49 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.03 min

Lab File: VF060748.D

Acq: 15 Nov 2018 15:53

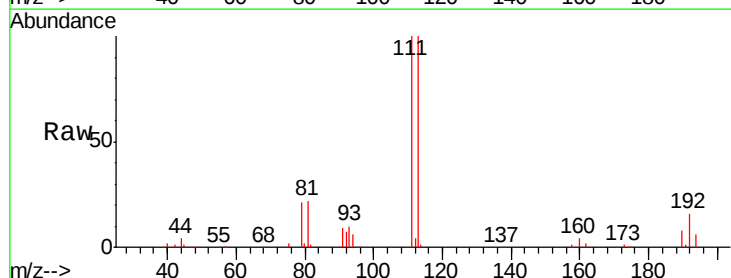
Tgt Ion:113 Resp: 140944

Ion Ratio Lower Upper

113 100

111 99.7 87.1 130.7

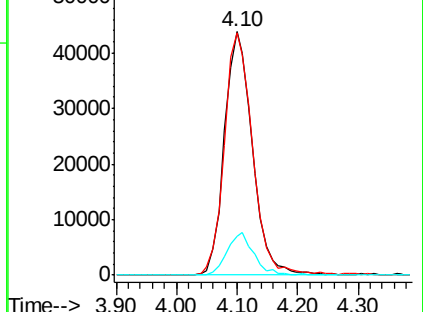
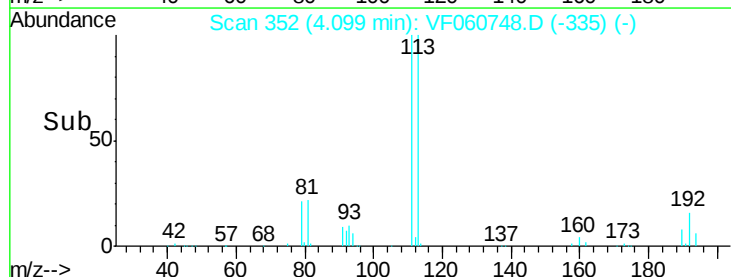
192 16.1 13.8 20.6

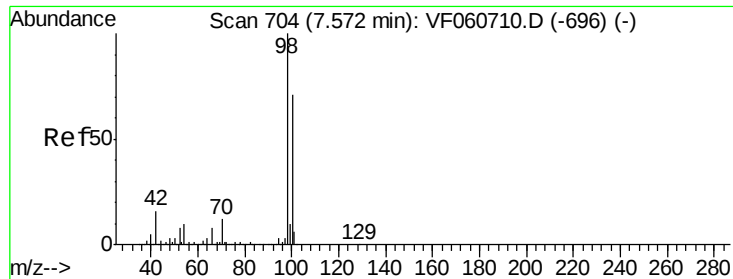


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

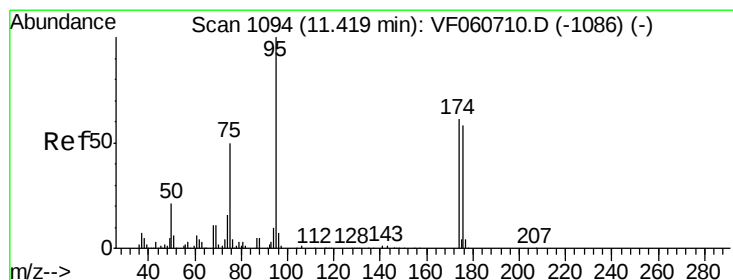
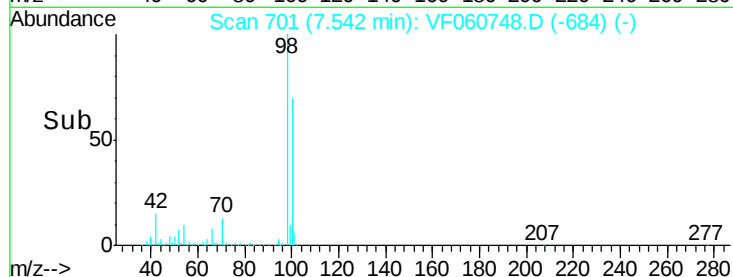
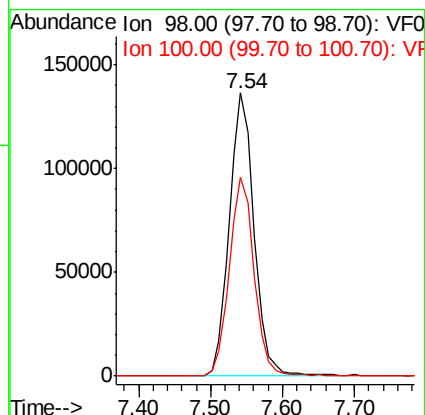
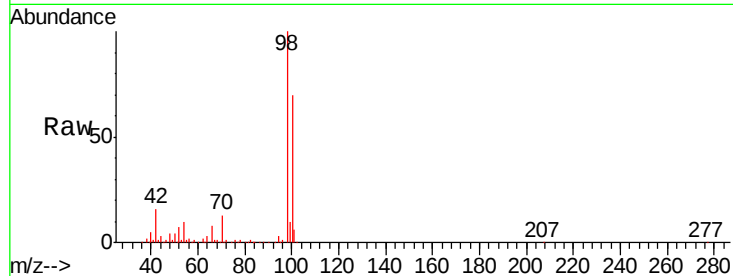




#50  
Toluene-d8  
Concen: 39.55 ug/l  
RT: 7.54 min Scan# 701  
Delta R.T. -0.03 min  
Lab File: VF060748.D  
Acq: 15 Nov 2018 15:53

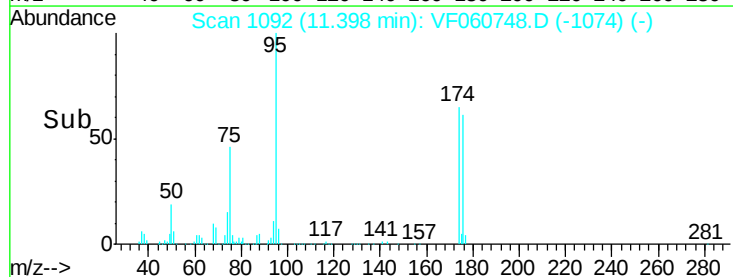
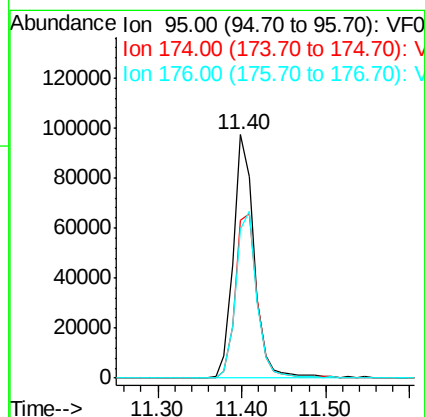
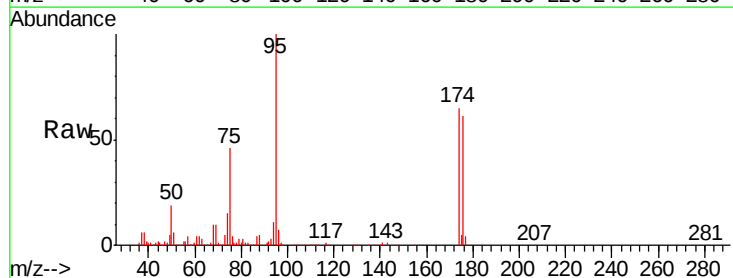
Instrument :  
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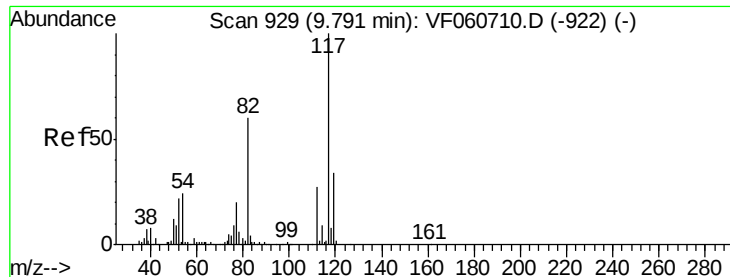
Tgt Ion: 98 Resp: 327794  
Ion Ratio Lower Upper  
98 100  
100 70.1 56.5 84.7



#62  
4-Bromofluorobenzene  
Concen: 44.62 ug/l  
RT: 11.40 min Scan# 1092  
Delta R.T. -0.02 min  
Lab File: VF060748.D  
Acq: 15 Nov 2018 15:53

Tgt Ion: 95 Resp: 168922  
Ion Ratio Lower Upper  
95 100  
174 64.9 0.0 121.6  
176 61.1 0.0 115.2

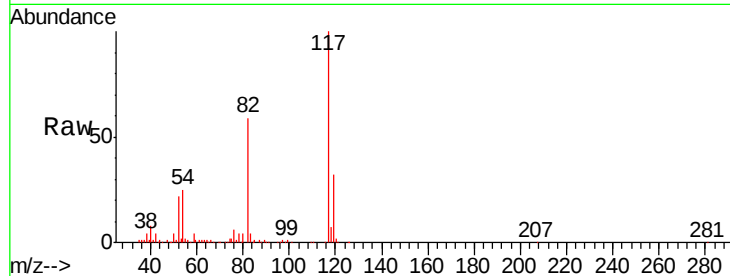




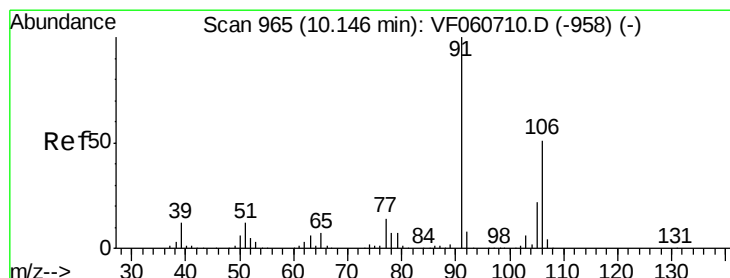
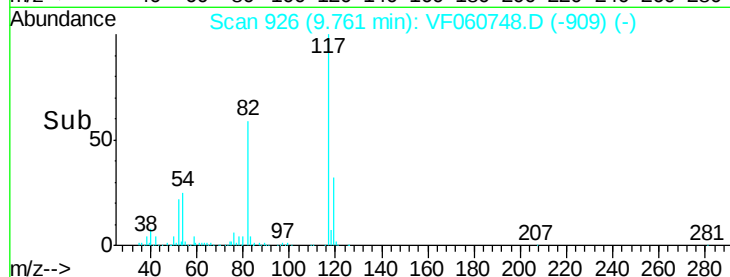
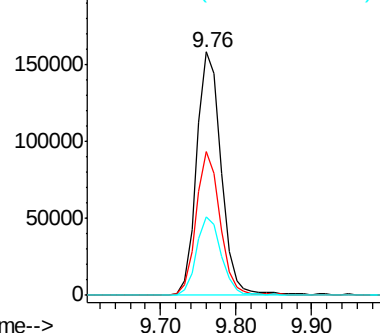
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.76 min Scan# 926  
Delta R.T. -0.03 min  
Lab File: VF060748.D  
Acq: 15 Nov 2018 15:53

Instrument :  
MSVOA\_F  
ClientSampleId :  
CL-01-111418-A

Tgt Ion:117 Resp: 356409  
Ion Ratio Lower Upper  
117 100  
82 59.3 47.9 71.9  
119 32.5 26.8 40.2

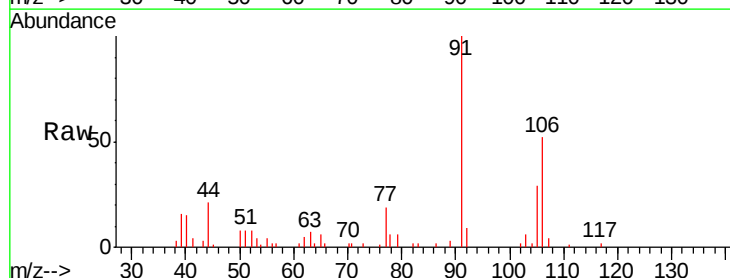


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 119.00 (118.70 to 119.70): V

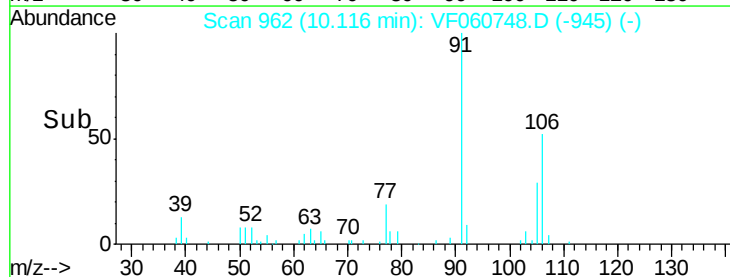
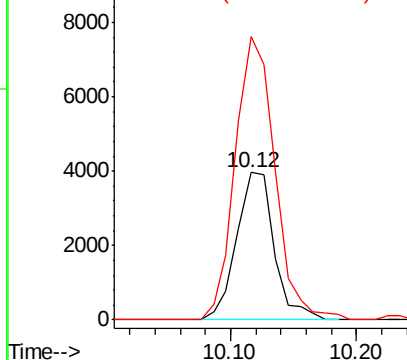


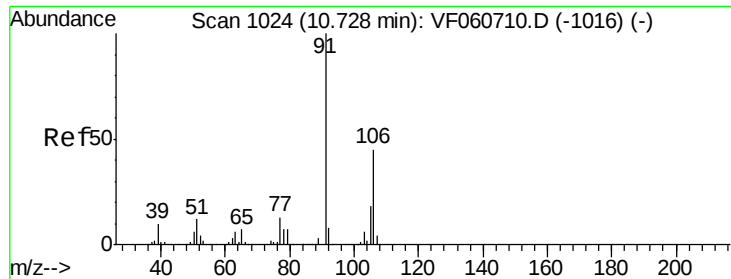
#68  
m/p-Xylenes  
Concen: 1.69 ug/l  
RT: 10.12 min Scan# 962  
Delta R.T. -0.03 min  
Lab File: VF060748.D  
Acq: 15 Nov 2018 15:53

Tgt Ion:106 Resp: 8211  
Ion Ratio Lower Upper  
106 100  
91 192.3 158.2 237.2



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VF0

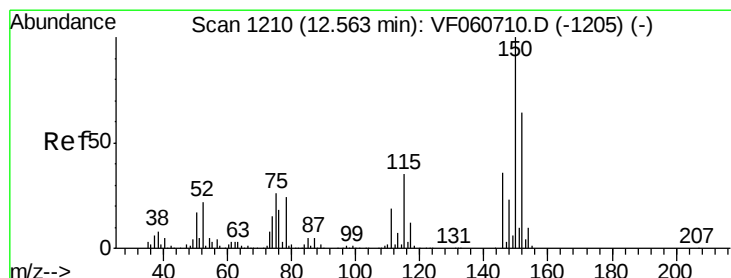
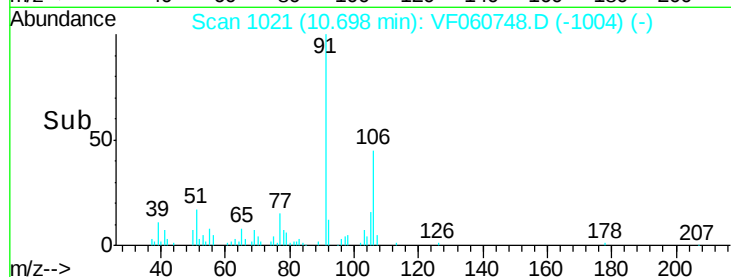
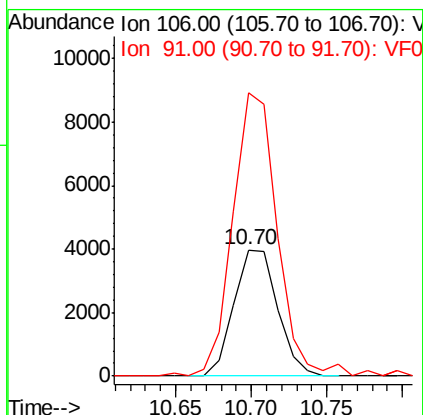
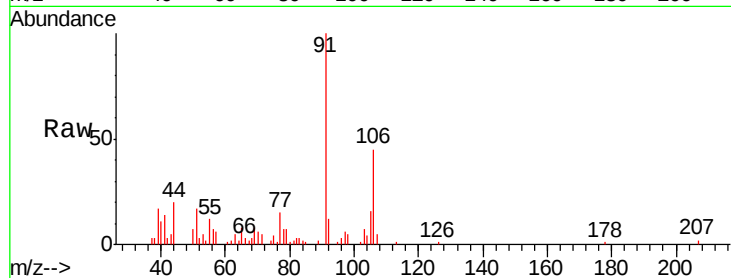




#69  
o-Xylene  
Concen: 1.47 ug/l  
RT: 10.70 min Scan# 1021  
Delta R.T. -0.03 min  
Lab File: VF060748.D  
Acq: 15 Nov 2018 15:53

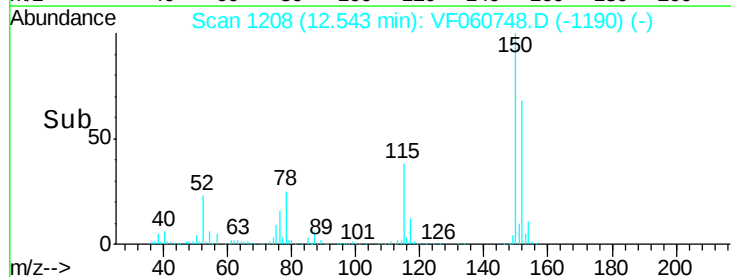
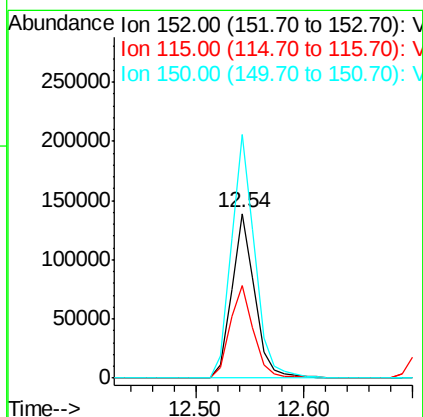
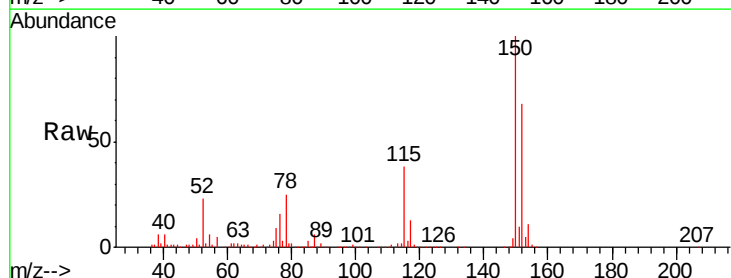
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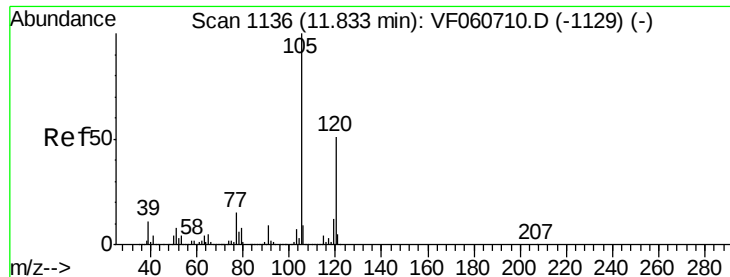
Tgt Ion:106 Resp: 8000  
Ion Ratio Lower Upper  
106 100  
91 223.9 110.3 330.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.54 min Scan# 1208  
Delta R.T. -0.02 min  
Lab File: VF060748.D  
Acq: 15 Nov 2018 15:53

Tgt Ion:152 Resp: 206394  
Ion Ratio Lower Upper  
152 100  
115 56.6 27.9 83.7  
150 148.0 0.0 316.4





#80

1,3,5-Trimethylbenzene

Concen: 1.82 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF060748.D

Acq: 15 Nov 2018 15:53

Instrument :

MSVOA\_F

ClientSampleId :

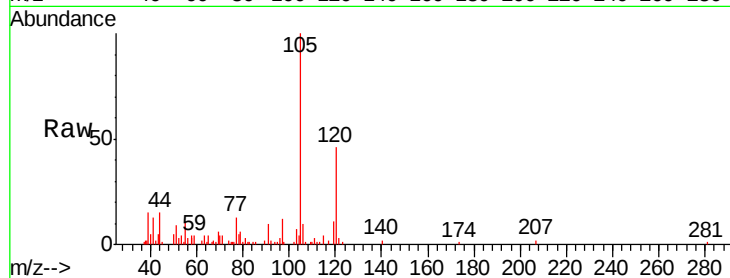
CL-01-111418-A

Tgt Ion:105 Resp: 23955

Ion Ratio Lower Upper

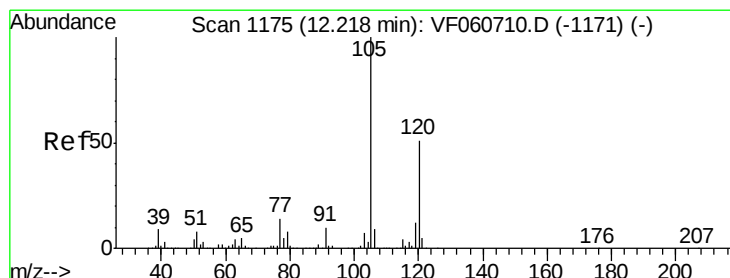
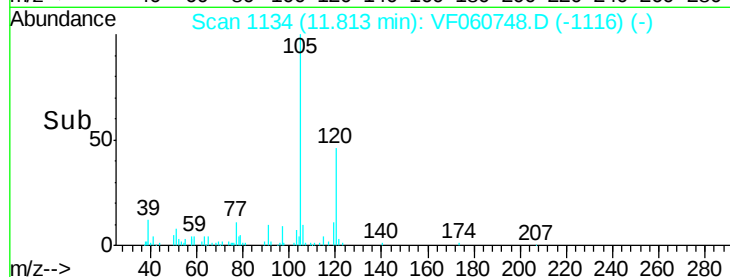
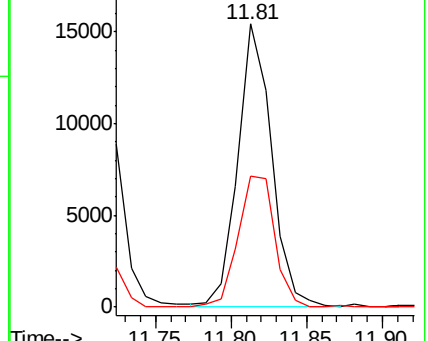
105 100

120 46.4 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 4.25 ug/l

RT: 12.20 min Scan# 1173

Delta R.T. -0.02 min

Lab File: VF060748.D

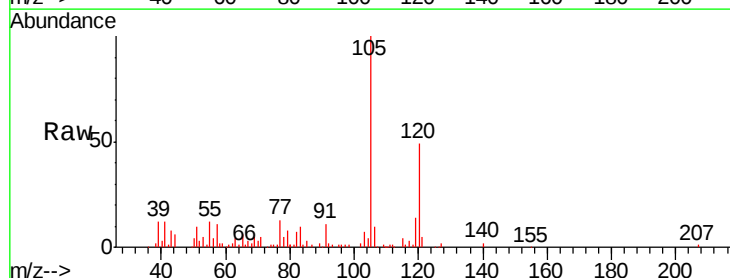
Acq: 15 Nov 2018 15:53

Tgt Ion:105 Resp: 57961

Ion Ratio Lower Upper

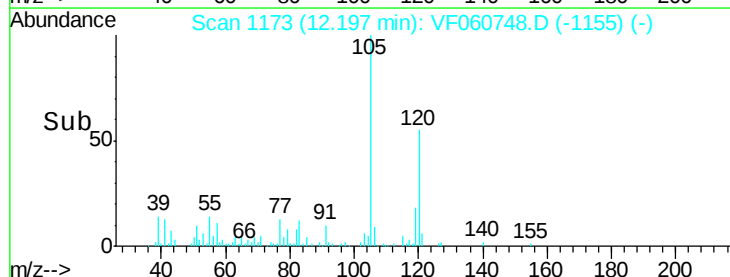
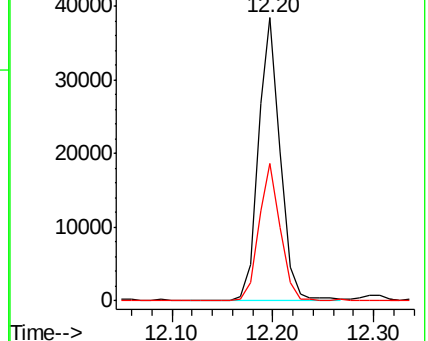
105 100

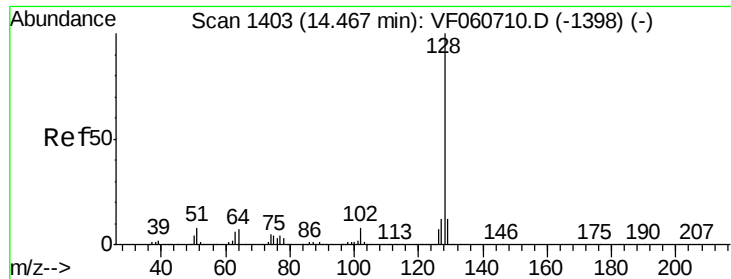
120 48.6 25.5 76.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95  
Naphthalene  
Concen: 70.14 ug/l  
RT: 14.45 min Scan# 1401  
Delta R.T. -0.02 min  
Lab File: VF060748.D  
Acq: 15 Nov 2018 15:53

Instrument :  
MSVOA\_F  
ClientSampleId :  
CL-01-111418-A

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.3  | 9.8   | 14.6  |
| 129     | 12.0  | 9.3   | 13.9  |

