

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030220\  
 Data File : VN060300.D  
 Acq On : 2 Mar 2020 10:28  
 Operator : JC/MD  
 Sample : VN0302WBL01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0302WBL01

Quant Time: Mar 03 05:56:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N022720W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 27 13:52:50 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 207411   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 337139   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 311301   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 139646   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.00   | 65  | 131913   | 49.57 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.14%  |      |
| 35) Dibromofluoromethane    | 7.56   | 113 | 94854    | 60.61 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 121.22% |      |
| 50) Toluene-d8              | 10.08  | 98  | 414212   | 52.30 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.60% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 149717   | 49.87 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.74%  |      |

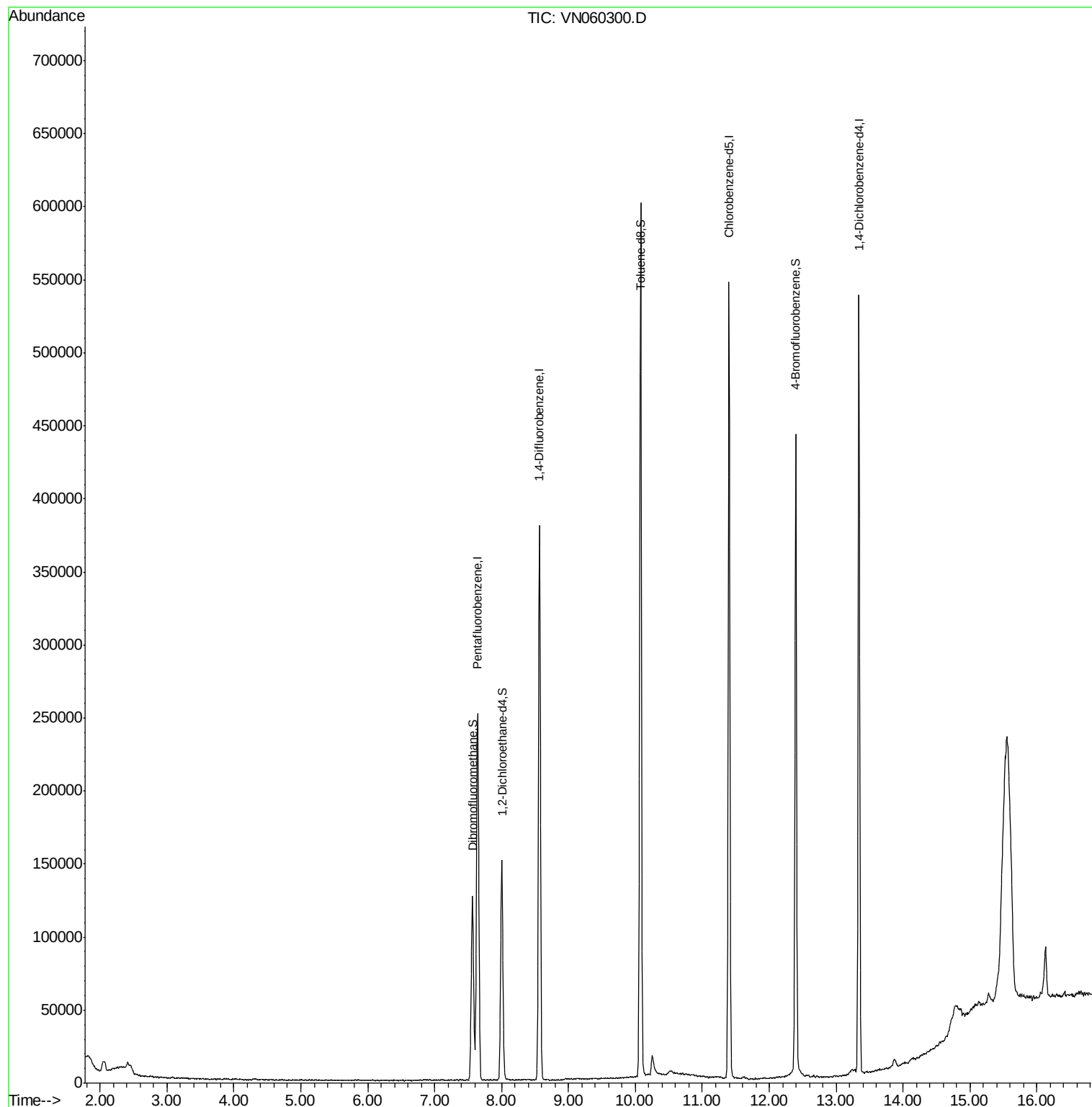
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

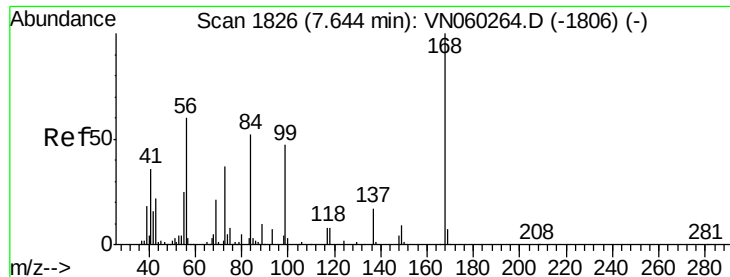
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0302WBL01

Quant Time: Mar 03 05:56:43 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N022720W.M  
Quant Title : SW846 8260  
QLast Update : Thu Feb 27 13:52:50 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060300.D

Acq: 2 Mar 2020 10:28

Instrument :

MSVOA\_N

ClientSampleId :

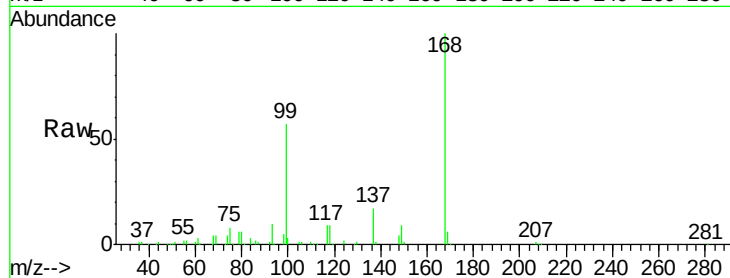
VN0302WBL01

Tot Ion:168 Resp: 207411

Ion Ratio Lower Upper

168 100

99 56.8 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.64

80000

60000

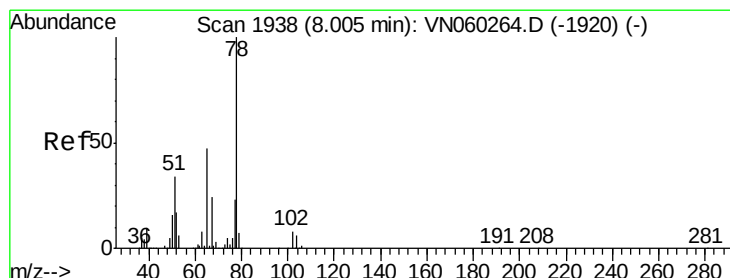
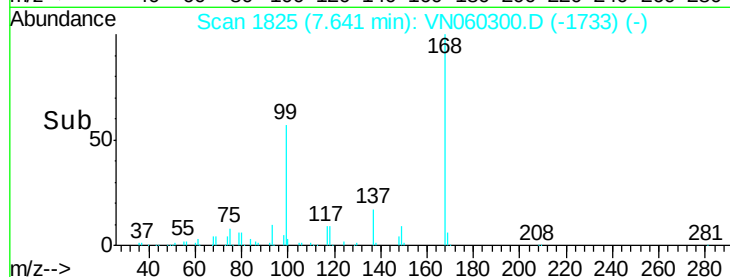
40000

20000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#33

1,2-Dichloroethane-d4

Concen: 49.571 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060300.D

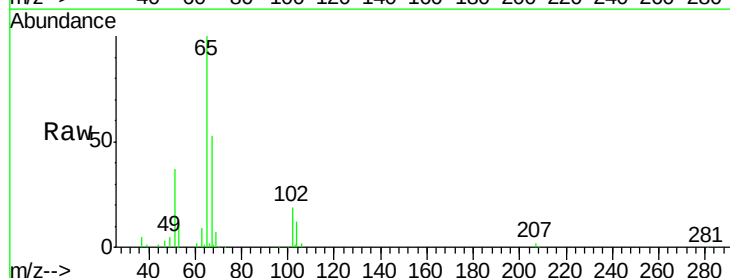
Acq: 2 Mar 2020 10:28

Tgt Ion: 65 Resp: 131913

Ion Ratio Lower Upper

65 100

67 52.2 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.00

60000

50000

40000

30000

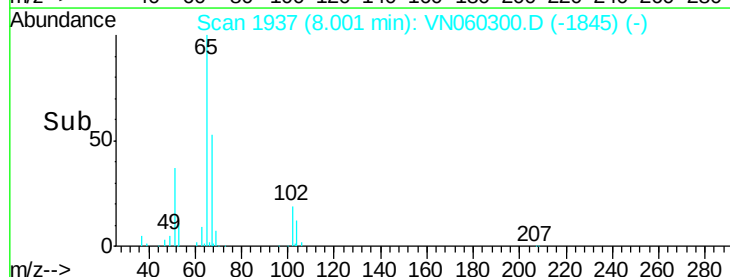
20000

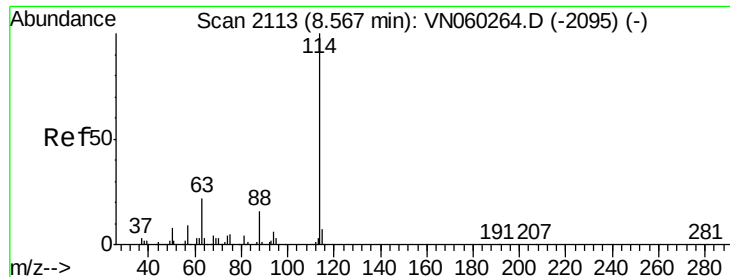
10000

0

7.90 8.00 8.10

Time-->

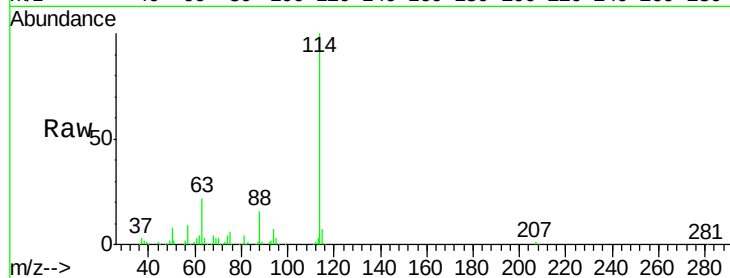




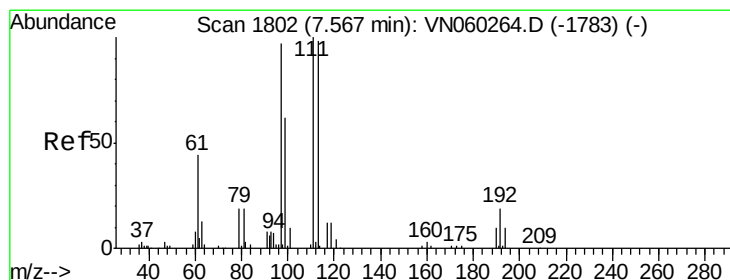
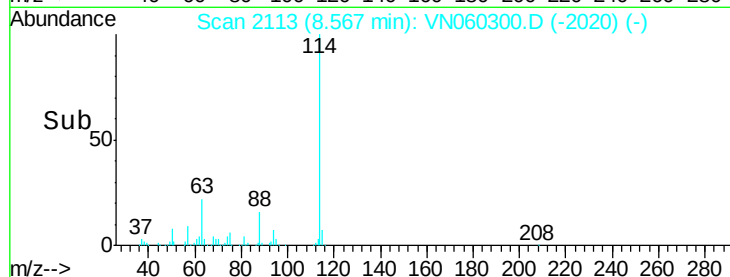
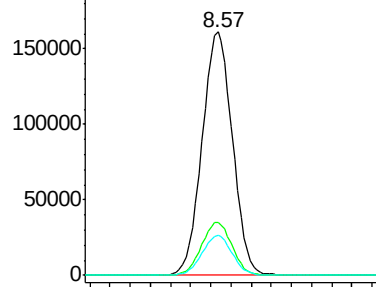
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.57 min Scan# 2113  
Delta R.T. 0.00 min  
Lab File: VN060300.D  
Acq: 2 Mar 2020 10:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0302WBL01

Tot Ion:114 Resp: 337139  
Ion Ratio Lower Upper  
114 100  
63 21.7 0.0 43.2  
88 16.4 0.0 31.6

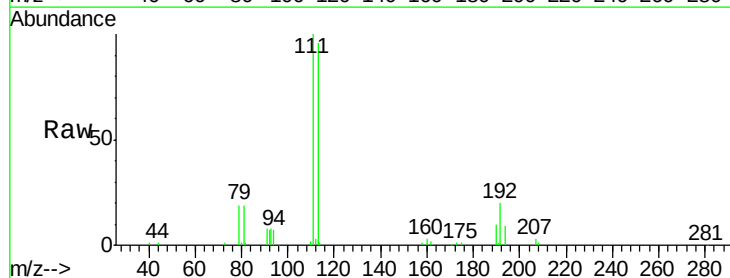


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): V  
Ion 87.90 (87.60 to 88.60): V

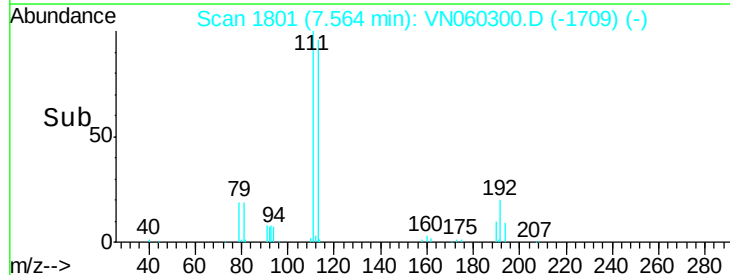
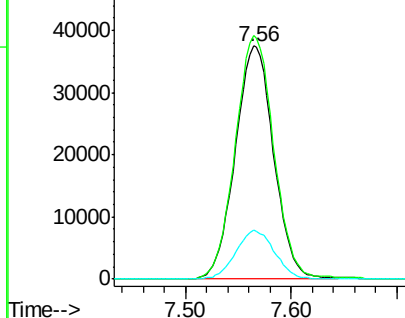


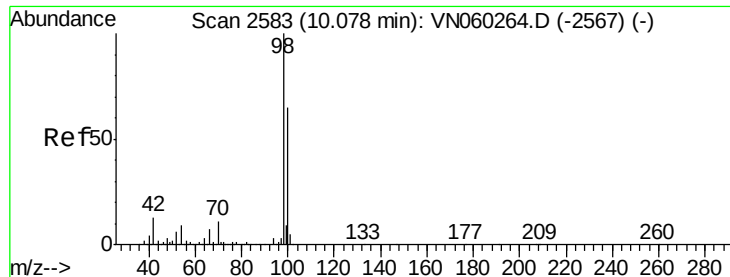
#35  
Dibromofluoromethane  
Concen: 60.614 ug/l  
RT: 7.56 min Scan# 1801  
Delta R.T. -0.00 min  
Lab File: VN060300.D  
Acq: 2 Mar 2020 10:28

Tgt Ion:113 Resp: 94854  
Ion Ratio Lower Upper  
113 100  
111 104.4 82.4 123.6  
192 21.0 16.2 24.2



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





#50

Toluene-d8

Concen: 52.299 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060300.D

Acq: 2 Mar 2020 10:28

Instrument :

MSVOA\_N

ClientSampled :

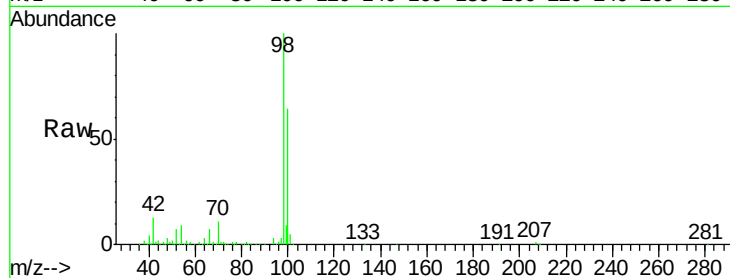
VN0302WBL01

Tot Ion: 98 Resp: 414212

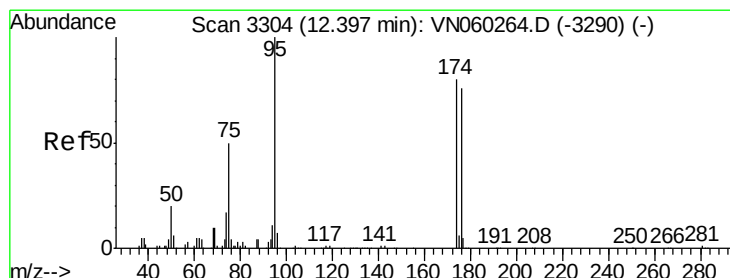
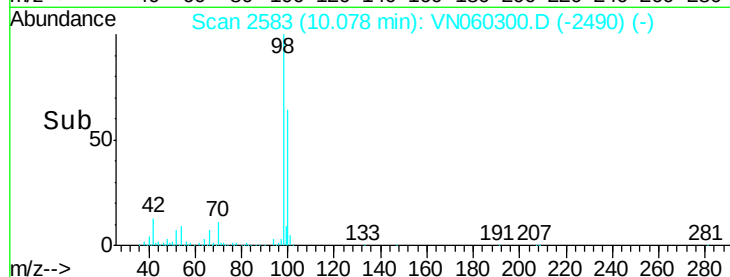
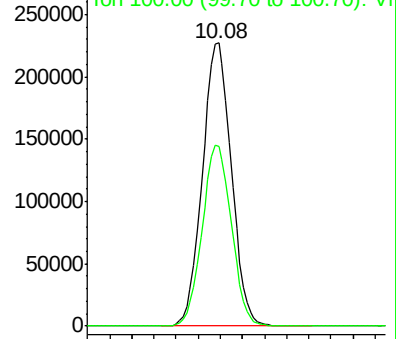
Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN060300.D (-2490) (-)



#62

4-Bromofluorobenzene

Concen: 49.867 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060300.D

Acq: 2 Mar 2020 10:28

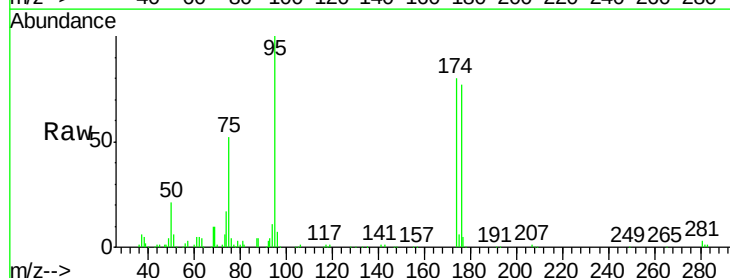
Tgt Ion: 95 Resp: 149717

Ion Ratio Lower Upper

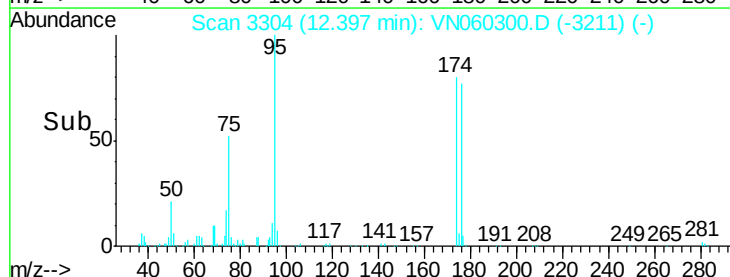
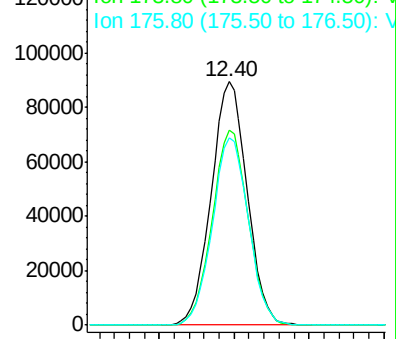
95 100

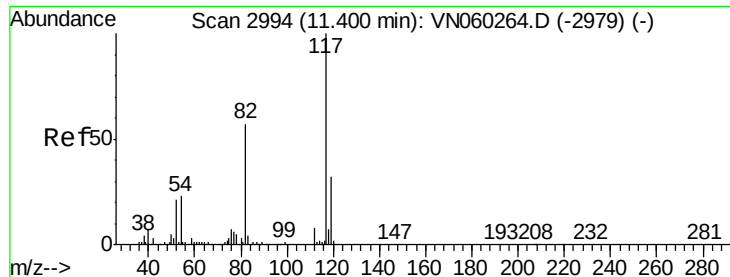
174 80.2 0.0 159.2

176 77.3 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060300.D (-3211) (-)

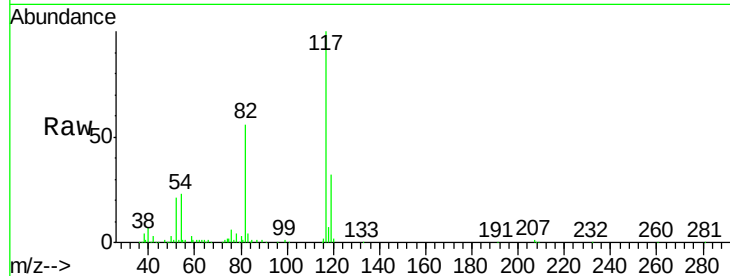




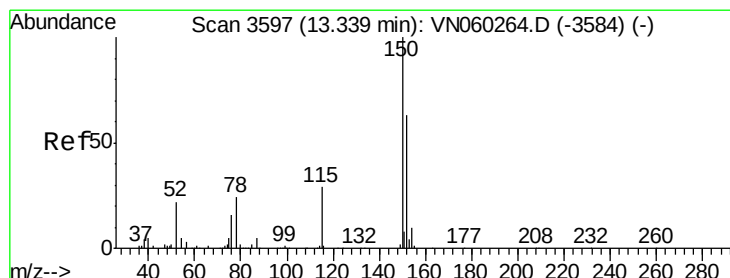
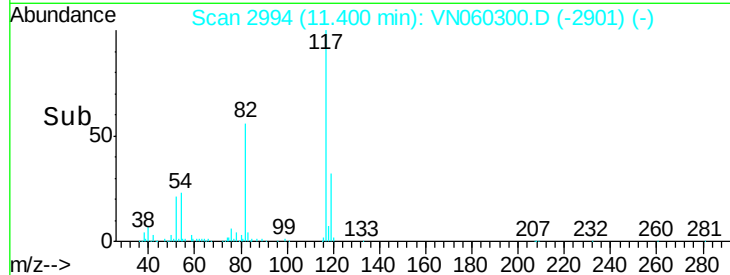
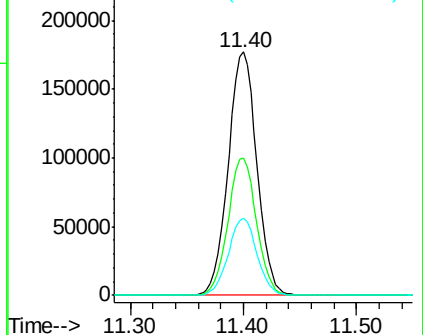
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. 0.00 min  
Lab File: VN060300.D  
Acq: 2 Mar 2020 10:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0302WBL01

Tot Ion:117 Resp: 311301  
Ion Ratio Lower Upper  
117 100  
82 56.4 45.8 68.6  
119 31.6 25.8 38.8

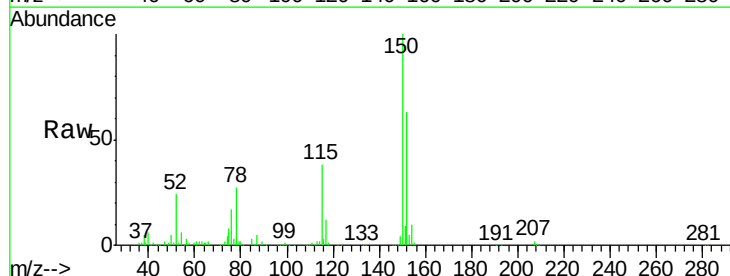


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3597  
Delta R.T. 0.00 min  
Lab File: VN060300.D  
Acq: 2 Mar 2020 10:28

Tgt Ion:152 Resp: 139646  
Ion Ratio Lower Upper  
152 100  
115 59.2 30.0 90.0  
150 156.6 0.0 349.6



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

