

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100719\  
 Data File : VN058572.D  
 Acq On : 7 Oct 2019 17:30  
 Operator : JC/SP  
 Sample : K5197-09DL 5X  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-23B\_100319DL

Quant Time: Oct 08 15:18:20 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N092719W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 30 08:07:38 2019  
 Response via : Initial Calibration

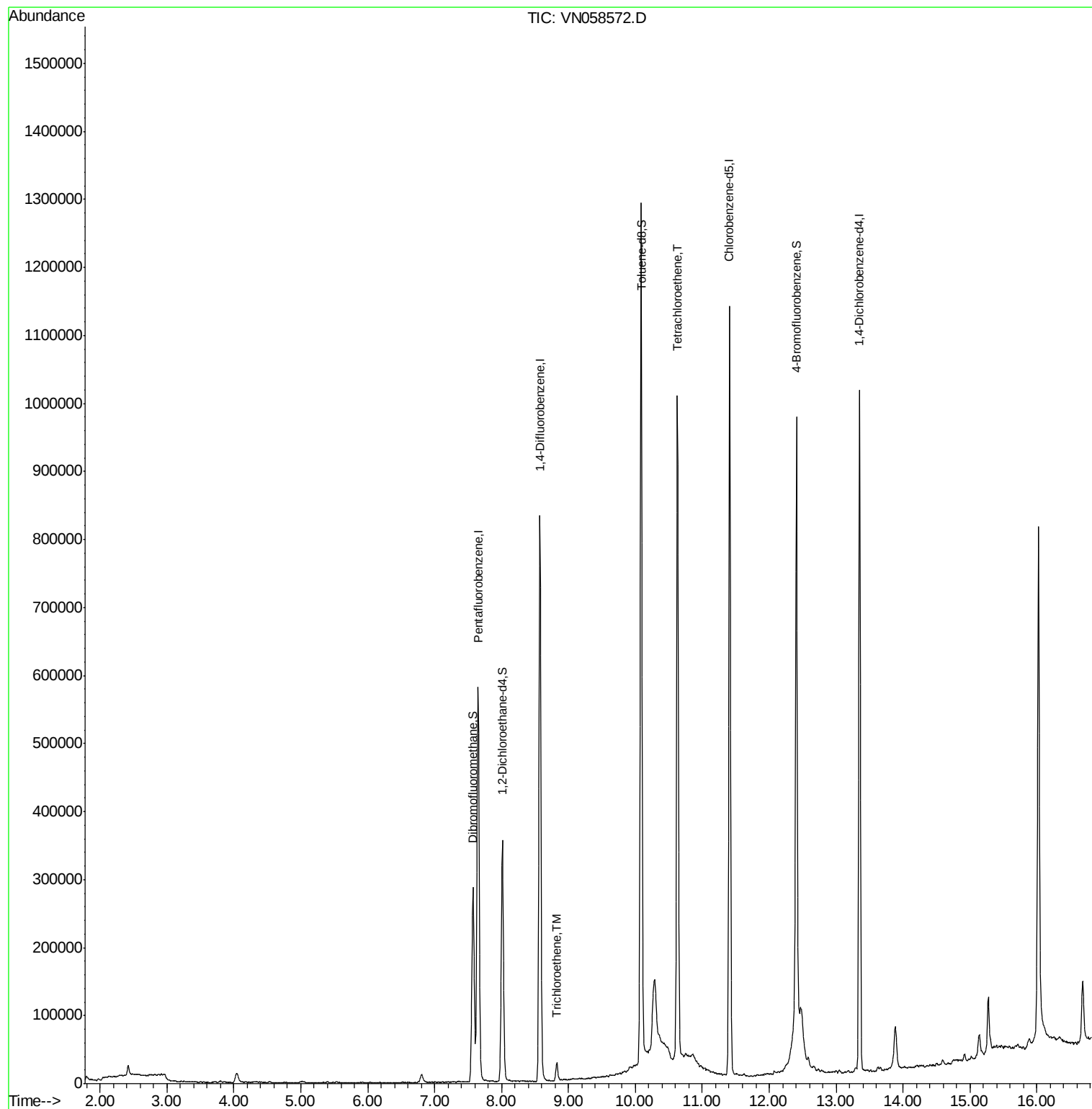
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.65  | 168  | 461995   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.57  | 114  | 731293   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 632027   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 257334   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 310744   | 46.03  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 92.06%  |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 219233   | 48.91  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 97.82%  |          |
| 50) Toluene-d8              | 10.08 | 98   | 881150   | 50.19  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 100.38% |          |
| 62) 4-Bromofluorobenzene    | 12.41 | 95   | 300492   | 47.33  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 94.66%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 44) Trichloroethene         | 8.82  | 130  | 8857     | 1.785  | ug/l    | 97       |
| 64) Tetrachloroethene       | 10.63 | 164  | 219123   | 54.570 | ug/l    | 98       |

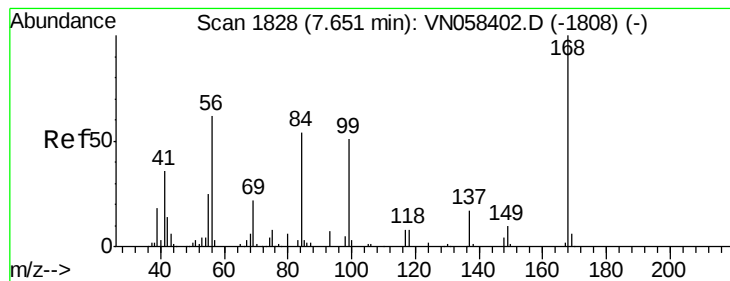
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN100719\  
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MW-23B\_100319DL

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Quant Title : SW846 8260  
QLast Update : Mon Sep 30 08:07:38 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

Instrument :

MSVOA\_N

ClientSampleId :

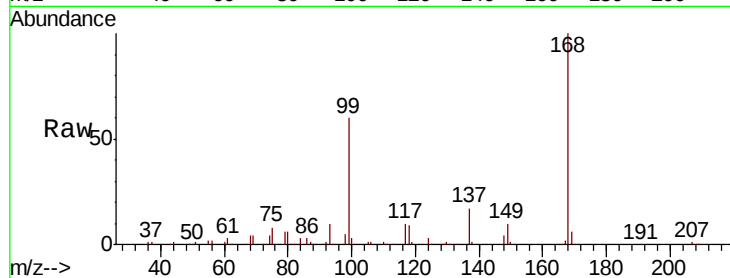
MW-23B\_100319DL

Tot Ion:168 Resp: 461995

Ion Ratio Lower Upper

168 100

99 60.5 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

150000

100000

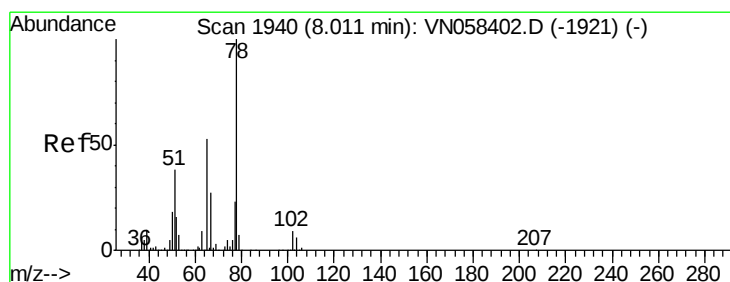
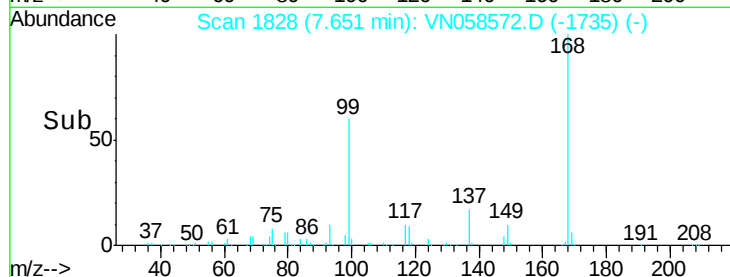
50000

0

7.60

7.70

Time-->



#33

1,2-Dichloroethane-d4

Concen: 46.027 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058572.D

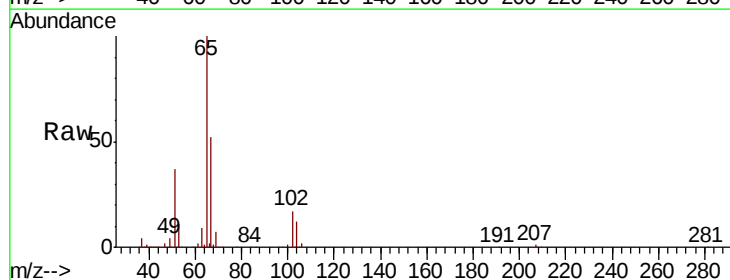
Acq: 7 Oct 2019 17:30

Tgt Ion: 65 Resp: 310744

Ion Ratio Lower Upper

65 100

67 50.9 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

8.01

150000

100000

50000

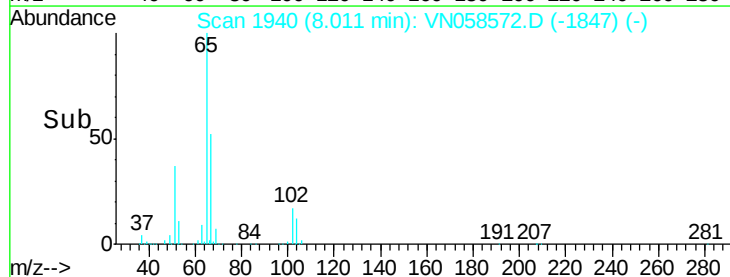
0

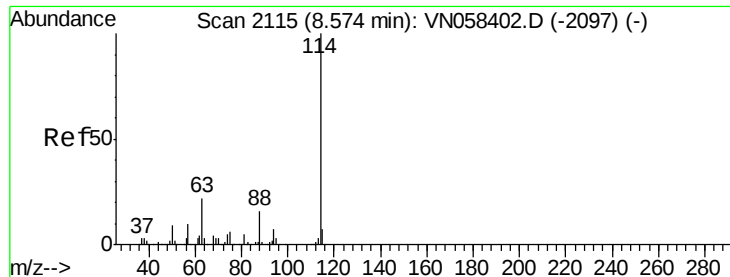
7.90

8.00

8.10

Time-->

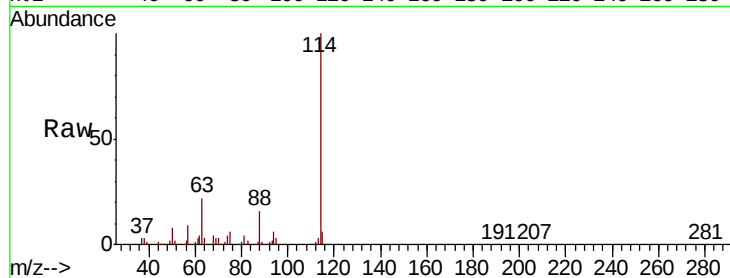




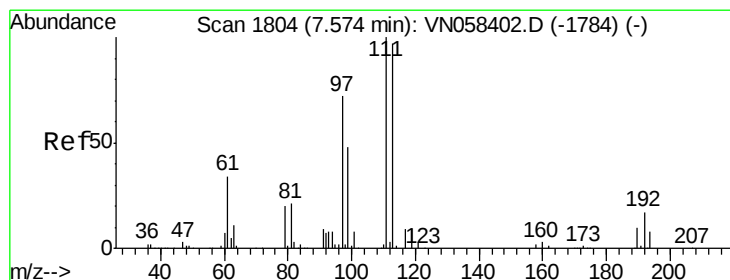
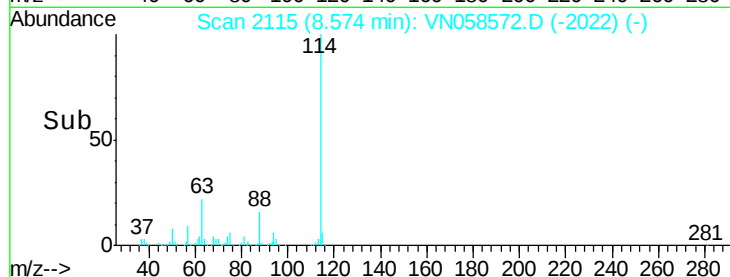
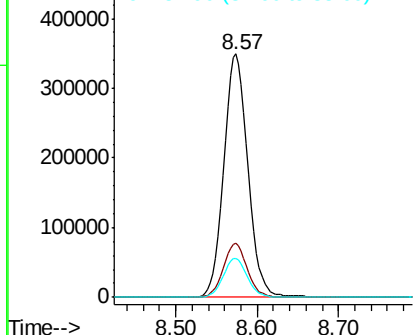
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.57 min Scan# 2115  
Delta R.T. 0.00 min  
Lab File: VN058572.D  
Acq: 7 Oct 2019 17:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-23B\_100319DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.4  | 0.0   | 45.0  |
| 88      | 16.2  | 0.0   | 32.2  |

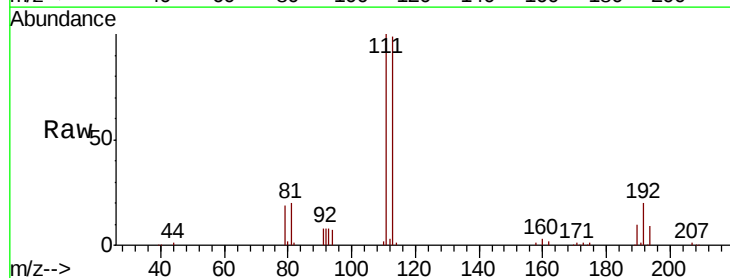


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VN  
Ion 87.90 (87.60 to 88.60): VN

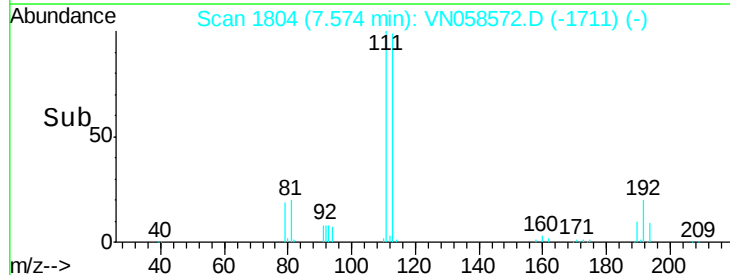
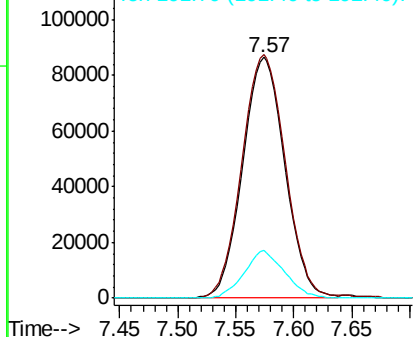


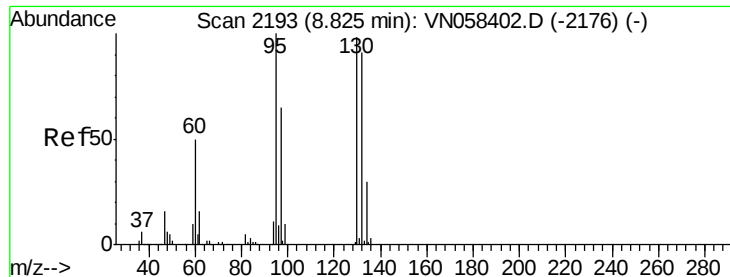
#35  
Dibromofluoromethane  
Concen: 48.914 ug/l  
RT: 7.57 min Scan# 1804  
Delta R.T. 0.00 min  
Lab File: VN058572.D  
Acq: 7 Oct 2019 17:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.5 | 83.4  | 125.2 |
| 192     | 19.0  | 14.9  | 22.3  |



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





#44

Trichloroethene

Concen: 1.785 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

Instrument :

MSVOA\_N

ClientSampleId :

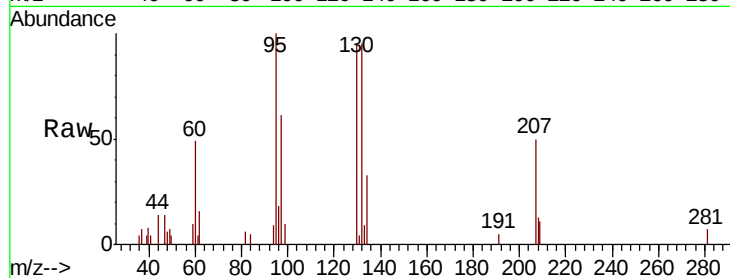
MW-23B\_100319DL

Tot Ion:130 Resp: 8857

Ion Ratio Lower Upper

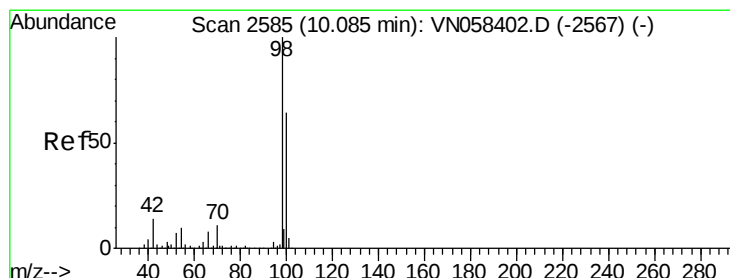
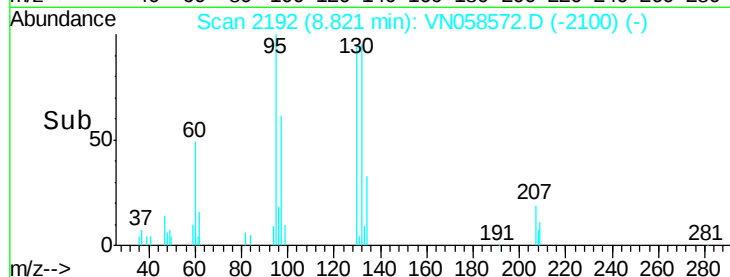
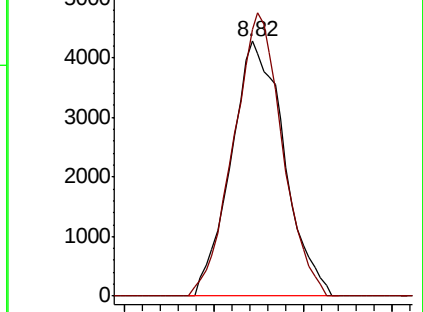
130 100

95 104.8 0.0 204.2



Abundance Ion 129.80 (129.50 to 130.50): VN058572.D (-2100) (-)

Ion 94.90 (94.60 to 95.60): VN058572.D (-2100) (-)



#50

Toluene-d8

Concen: 50.185 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058572.D

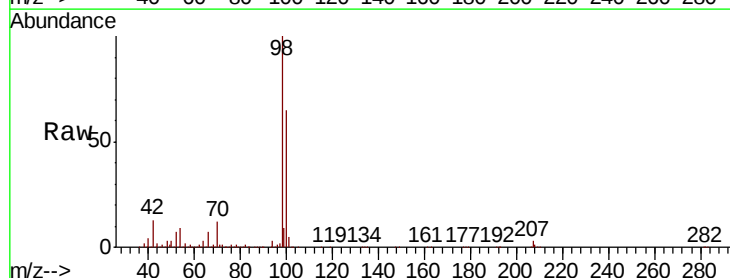
Acq: 7 Oct 2019 17:30

Tgt Ion: 98 Resp: 881150

Ion Ratio Lower Upper

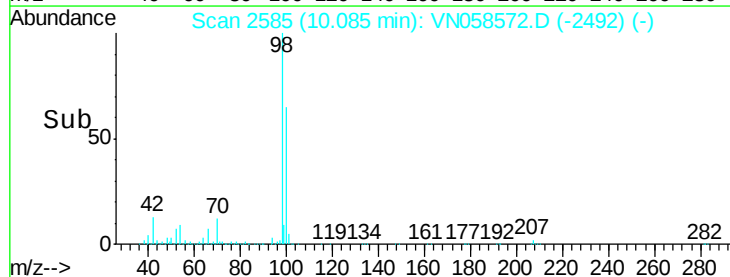
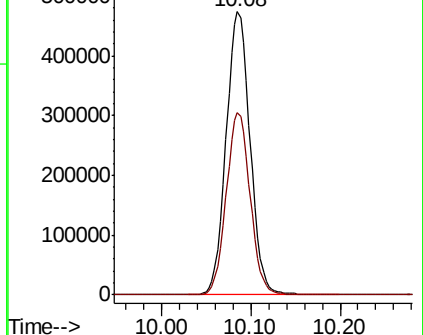
98 100

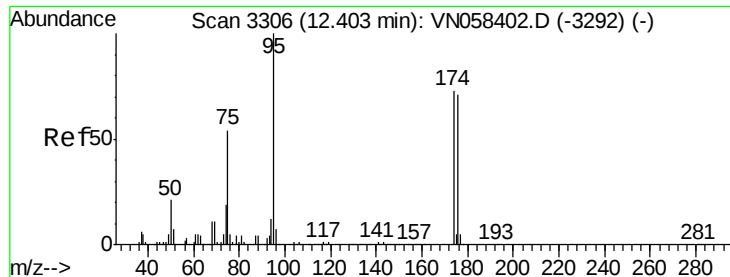
100 64.2 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN058572.D (-2492) (-)

Ion 100.00 (99.70 to 100.70): VN058572.D (-2492) (-)





#62

4-Bromofluorobenzene

Concen: 47.332 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

Instrument :

MSVOA\_N

ClientSampleId :

MW-23B\_100319DL

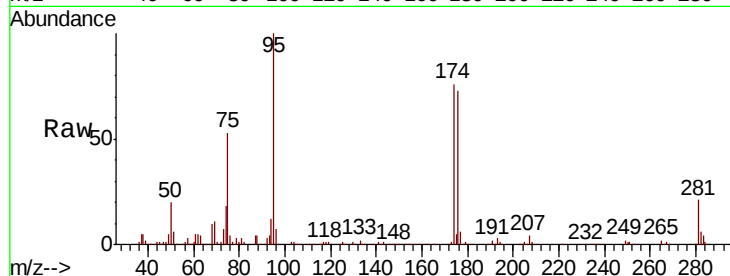
Tot Ion: 95 Resp: 300492

Ion Ratio Lower Upper

95 100

174 74.8 0.0 150.6

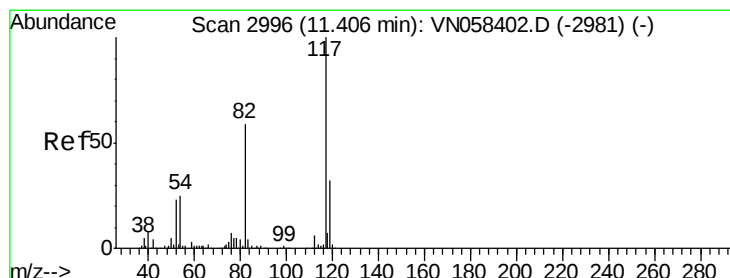
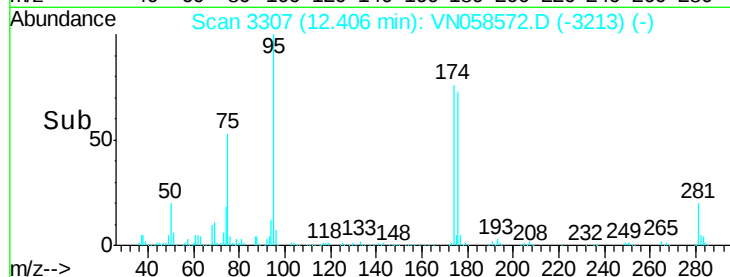
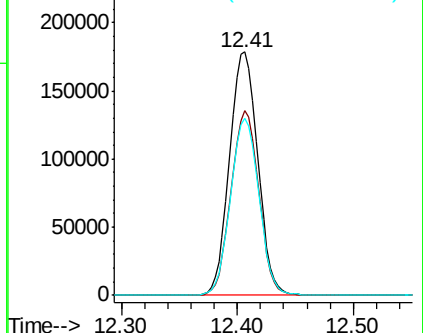
176 72.6 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): VN058572.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN058572.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN058572.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

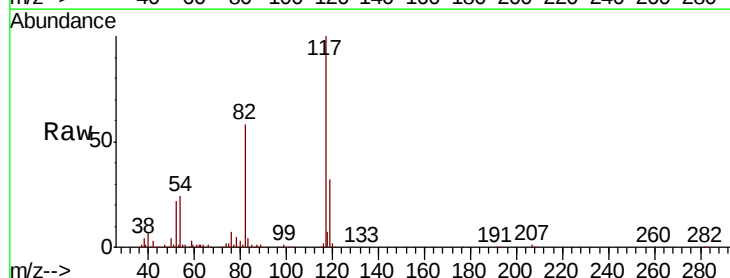
Tgt Ion: 117 Resp: 632027

Ion Ratio Lower Upper

117 100

82 58.0 47.4 71.0

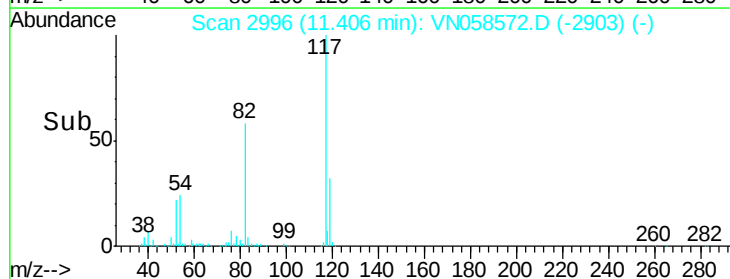
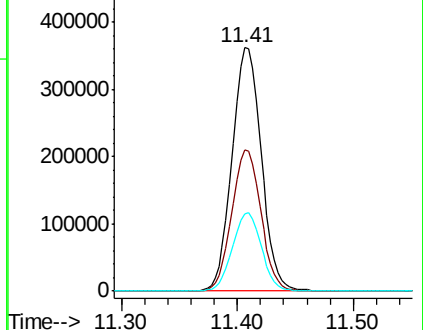
119 31.9 25.5 38.3

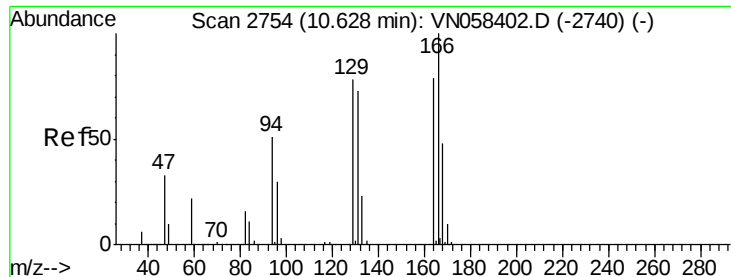


Abundance Ion 116.90 (116.60 to 117.60): VN058572.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058572.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058572.D (-2903) (-)

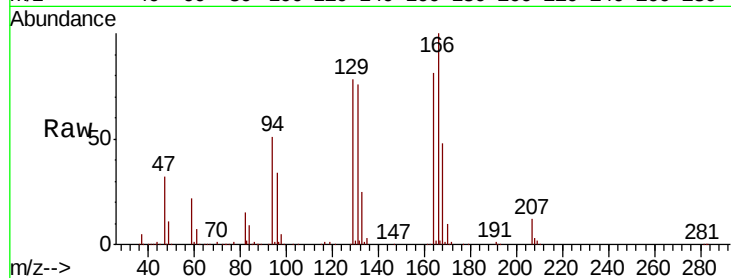




#64  
Tetrachloroethene  
Concen: 54.570 ug/l  
RT: 10.63 min Scan# 2754  
Delta R.T. 0.00 min  
Lab File: VN058572.D  
Acq: 7 Oct 2019 17:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-23B\_100319DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 124.2 | 101.1 | 151.7 |
| 129     | 96.9  | 79.2  | 118.8 |
| 131     | 94.8  | 74.1  | 111.1 |

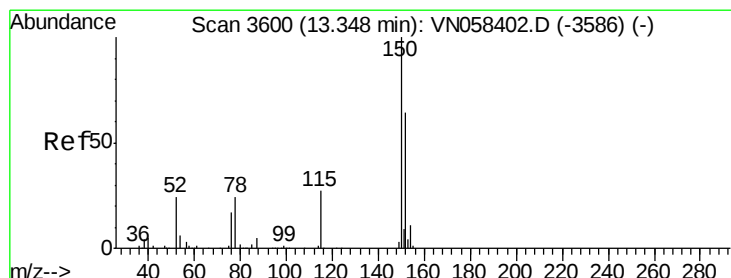
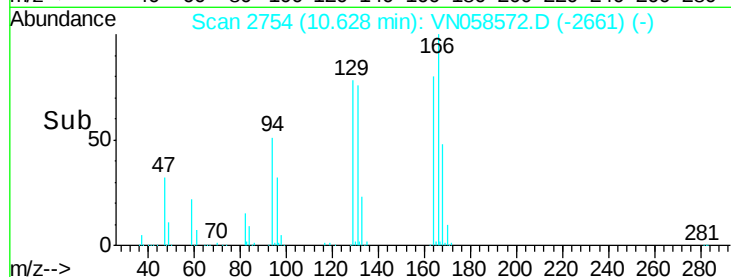
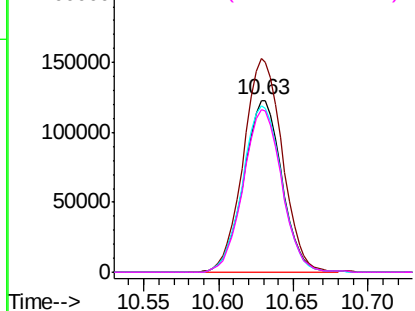


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

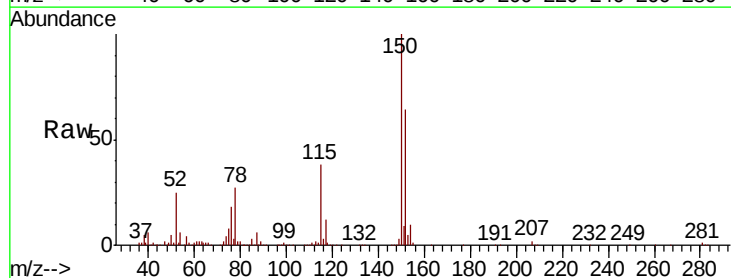
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3600  
Delta R.T. 0.00 min  
Lab File: VN058572.D  
Acq: 7 Oct 2019 17:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.9  | 30.0  | 90.0  |
| 150     | 157.3 | 0.0   | 348.2 |



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

