

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032819\  
 Data File : VN054734.D  
 Acq On : 28 Mar 2019 10:45  
 Operator : JC/SP  
 Sample : VN0328WBL01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0328WBL01

Quant Time: Mar 29 05:33:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 22 02:09:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 498660   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 793616   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 666285   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 224781   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65  | 322564   | 52.01 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.02% |      |
| 35) Dibromofluoromethane    | 7.59   | 113 | 254452   | 49.77 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.54%  |      |
| 50) Toluene-d8              | 10.09  | 98  | 962493   | 50.07 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.14% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 288722   | 44.14 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 88.28%  |      |

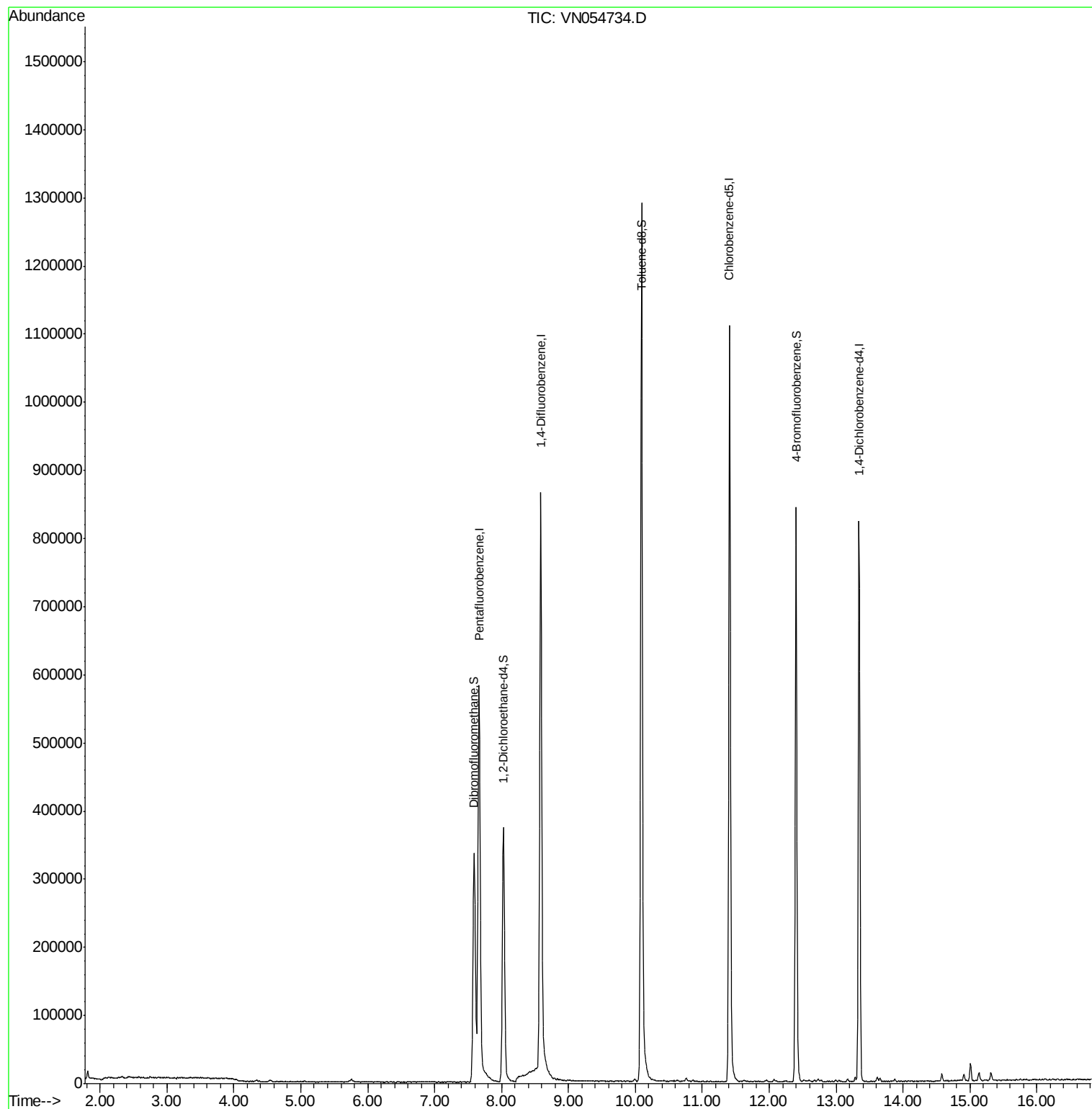
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

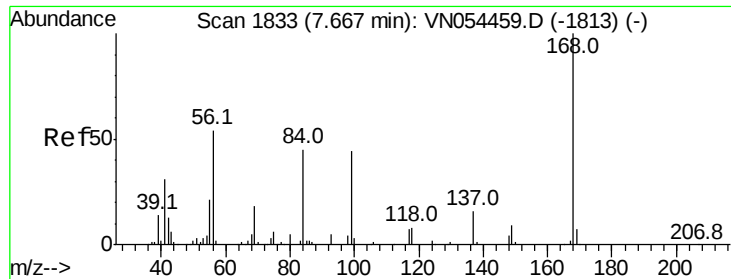
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN032819\  
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MSVOA\_N  
ClientSampleId :  
VN0328WBL01

Quant Time: Mar 29 05:33:17 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 22 02:09:07 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054734.D

Acq: 28 Mar 2019 10:45

Instrument :

MSVOA\_N

ClientSampled :

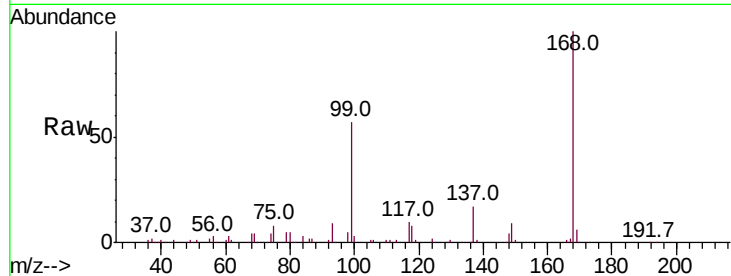
VN0328WBL01

Tot Ion:168 Resp: 498660

Ion Ratio Lower Upper

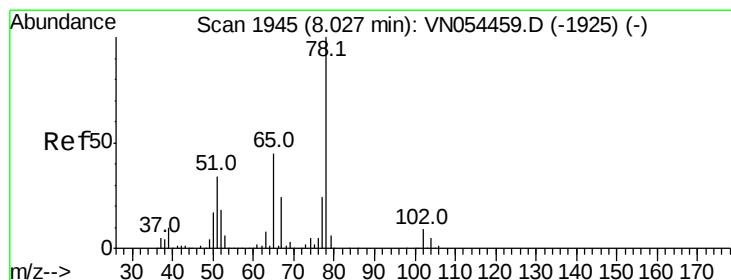
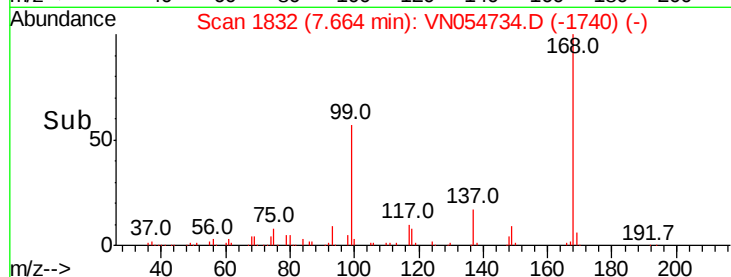
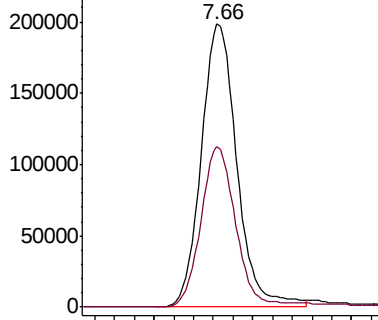
168 100

99 56.9 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 52.005 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054734.D

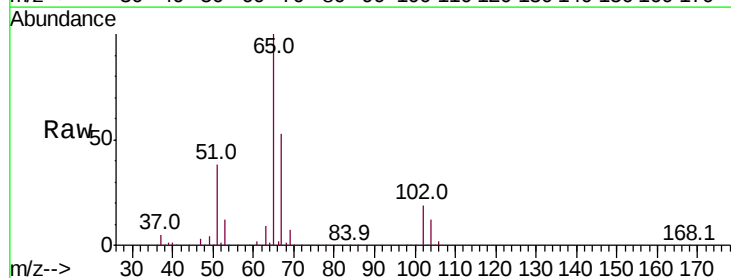
Acq: 28 Mar 2019 10:45

Tgt Ion: 65 Resp: 322564

Ion Ratio Lower Upper

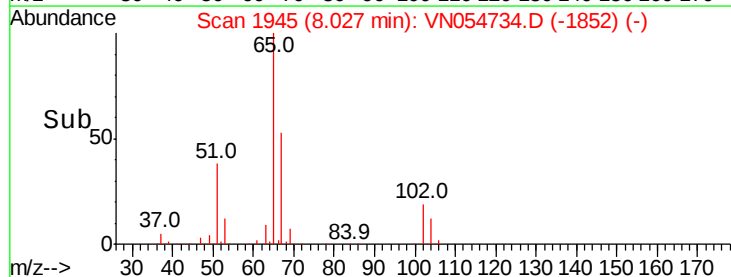
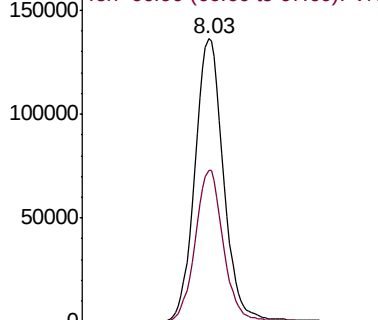
65 100

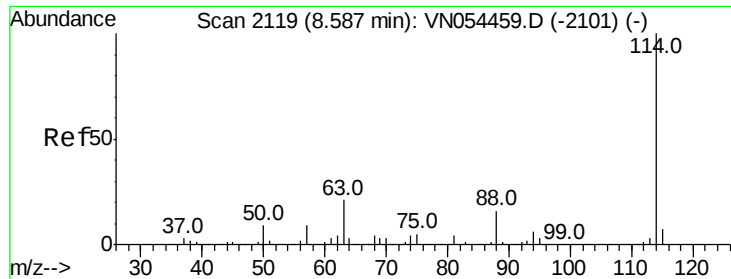
67 52.9 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

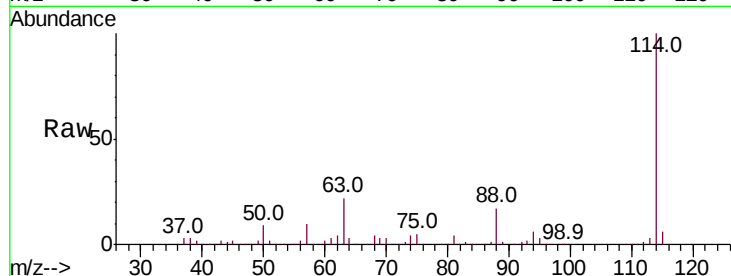




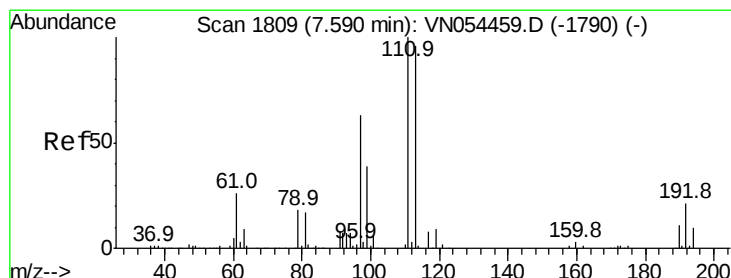
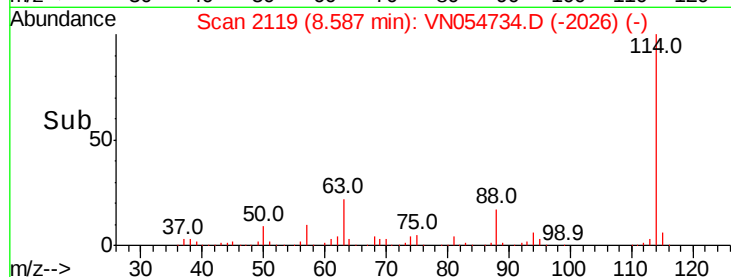
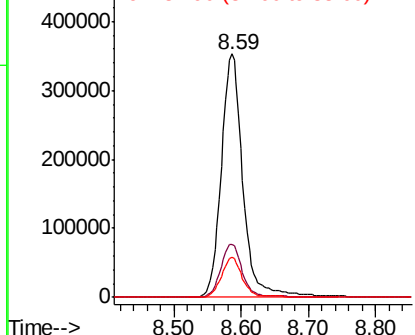
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN054734.D  
 Acq: 28 Mar 2019 10:45

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0328WBL01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 114   | Resp: | 793616 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 22.0  | 0.0   | 35.2   |
| 88       | 16.5  | 0.0   | 30.2   |

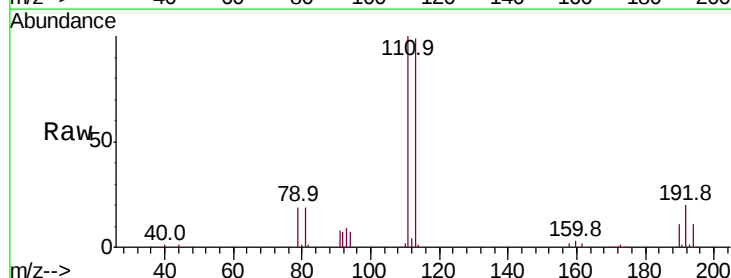


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN0  
 Ion 87.90 (87.60 to 88.60): VN0

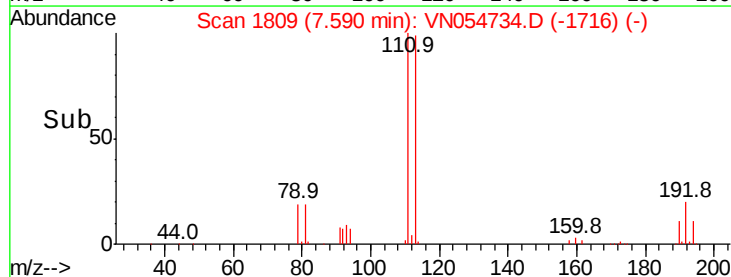
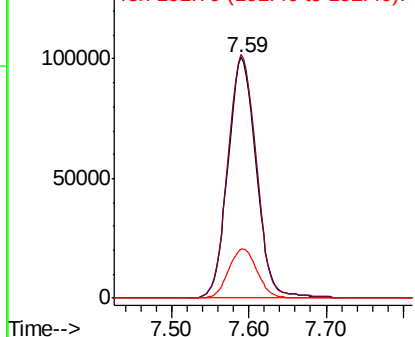


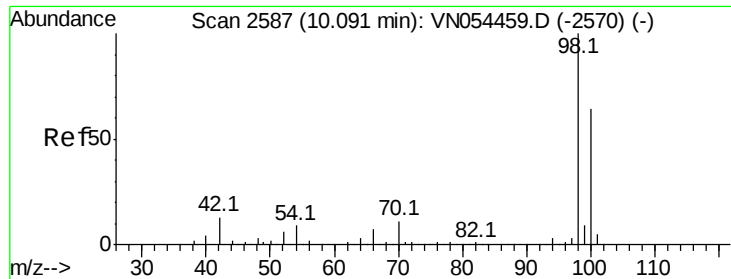
#35  
 Dibromofluoromethane  
 Concen: 49.767 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. -0.00 min  
 Lab File: VN054734.D  
 Acq: 28 Mar 2019 10:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 254452 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 102.3 | 82.2  | 123.4  |
| 192      | 20.5  | 19.2  | 28.8   |



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

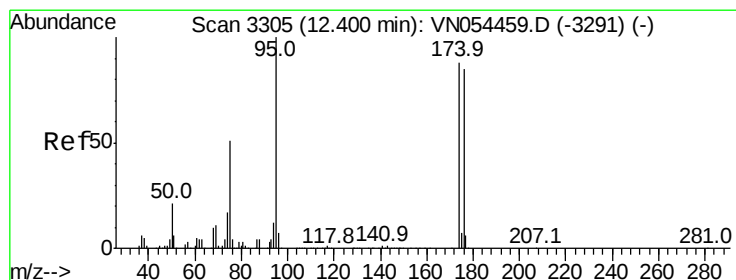
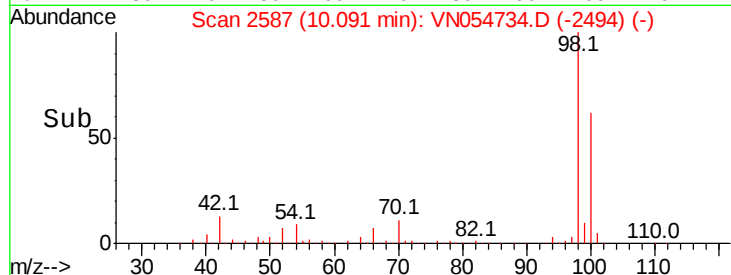
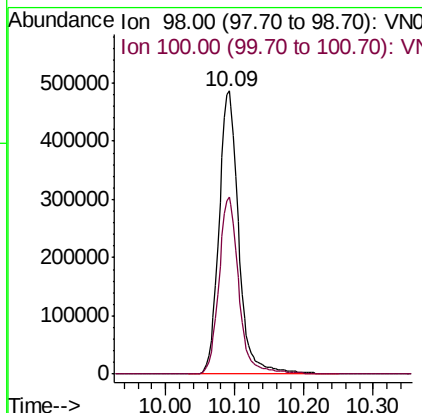
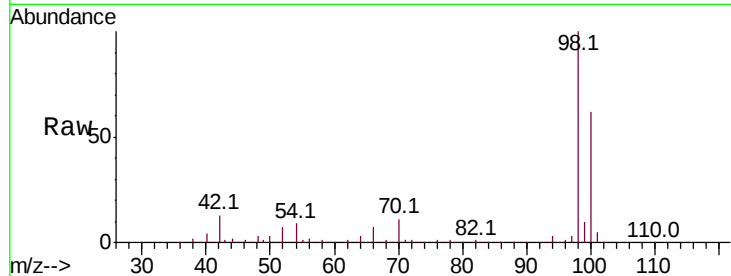




#50  
Toluene-d8  
Concen: 50.075 ug/l  
RT: 10.09 min Scan# 2587  
Delta R.T. -0.00 min  
Lab File: VN054734.D  
Acq: 28 Mar 2019 10:45

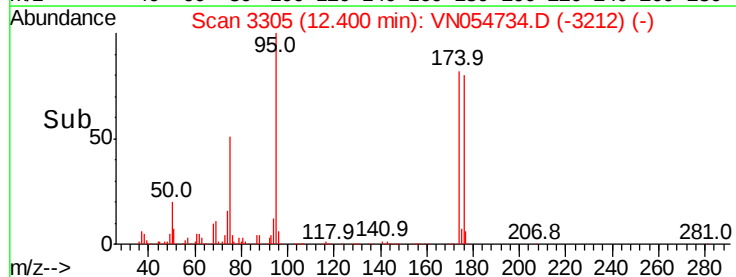
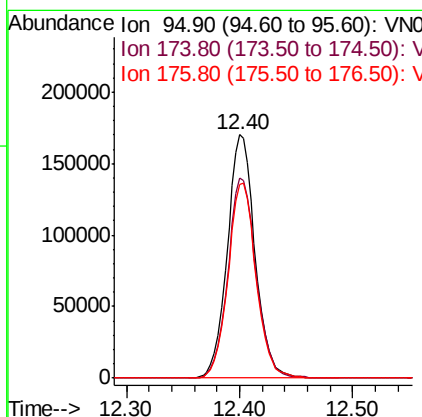
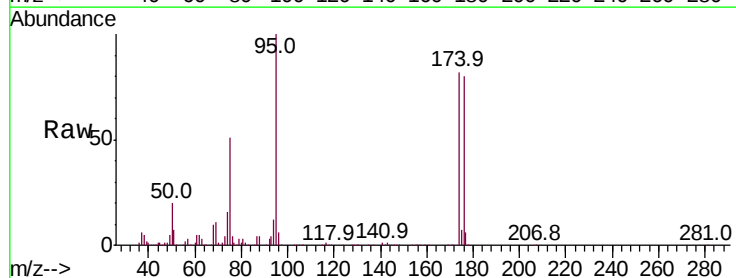
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0328WBL01

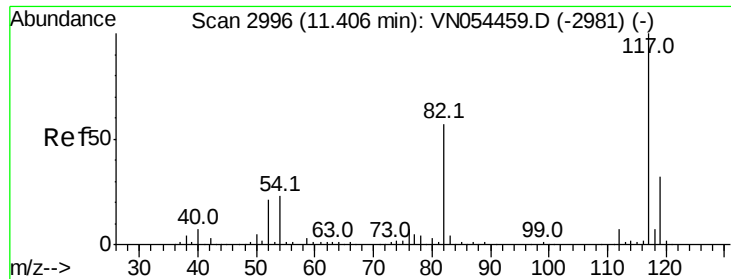
Tot Ion: 98 Resp: 962493  
Ion Ratio Lower Upper  
98 100  
100 62.9 51.2 76.8



#62  
4-Bromofluorobenzene  
Concen: 44.143 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN054734.D  
Acq: 28 Mar 2019 10:45

Tgt Ion: 95 Resp: 288722  
Ion Ratio Lower Upper  
95 100  
174 83.9 0.0 191.0  
176 81.3 0.0 187.4

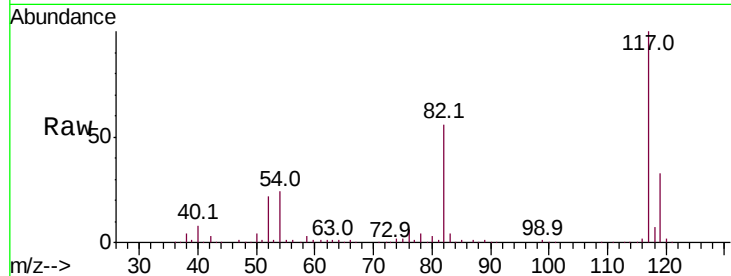




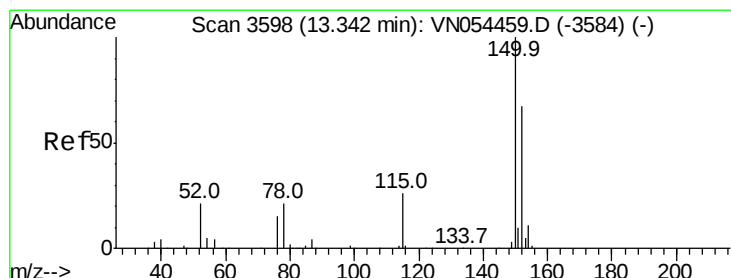
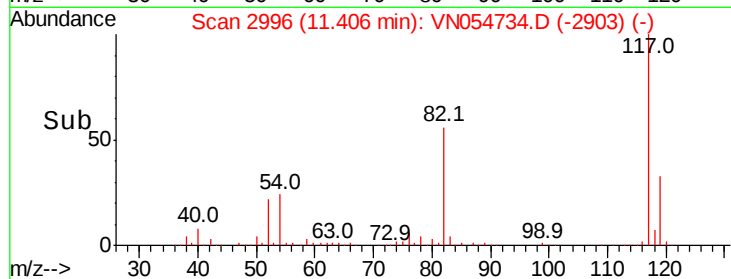
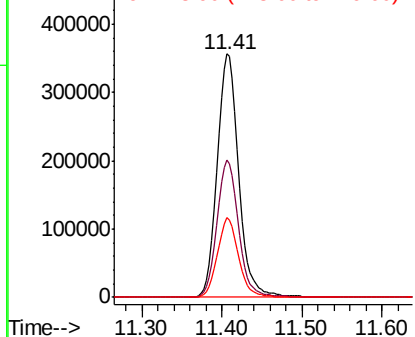
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN054734.D  
Acq: 28 Mar 2019 10:45

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0328WBL01

Tot Ion:117 Resp: 666285  
Ion Ratio Lower Upper  
117 100  
82 56.2 40.0 60.0  
119 32.6 25.8 38.6

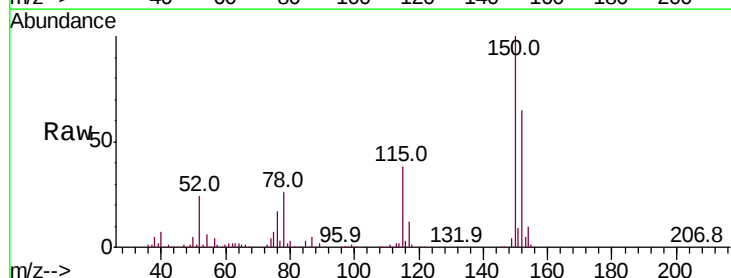


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. -0.00 min  
Lab File: VN054734.D  
Acq: 28 Mar 2019 10:45

Tgt Ion:152 Resp: 224781  
Ion Ratio Lower Upper  
152 100  
115 58.6 27.2 81.6  
150 156.8 0.0 349.2



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

