

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\  
 Data File : VN058222.D  
 Acq On : 19 Sep 2019 22:12  
 Operator : JC/SP  
 Sample : K4940-03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 40278

Quant Time: Sep 20 06:54:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 09:27:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 519322   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 845703   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 734992   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 371480   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 349292   | 48.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 96.58%  |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 245417   | 47.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 95.48%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1009447  | 50.39 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 100.78% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 387359   | 52.06 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 104.12% |          |

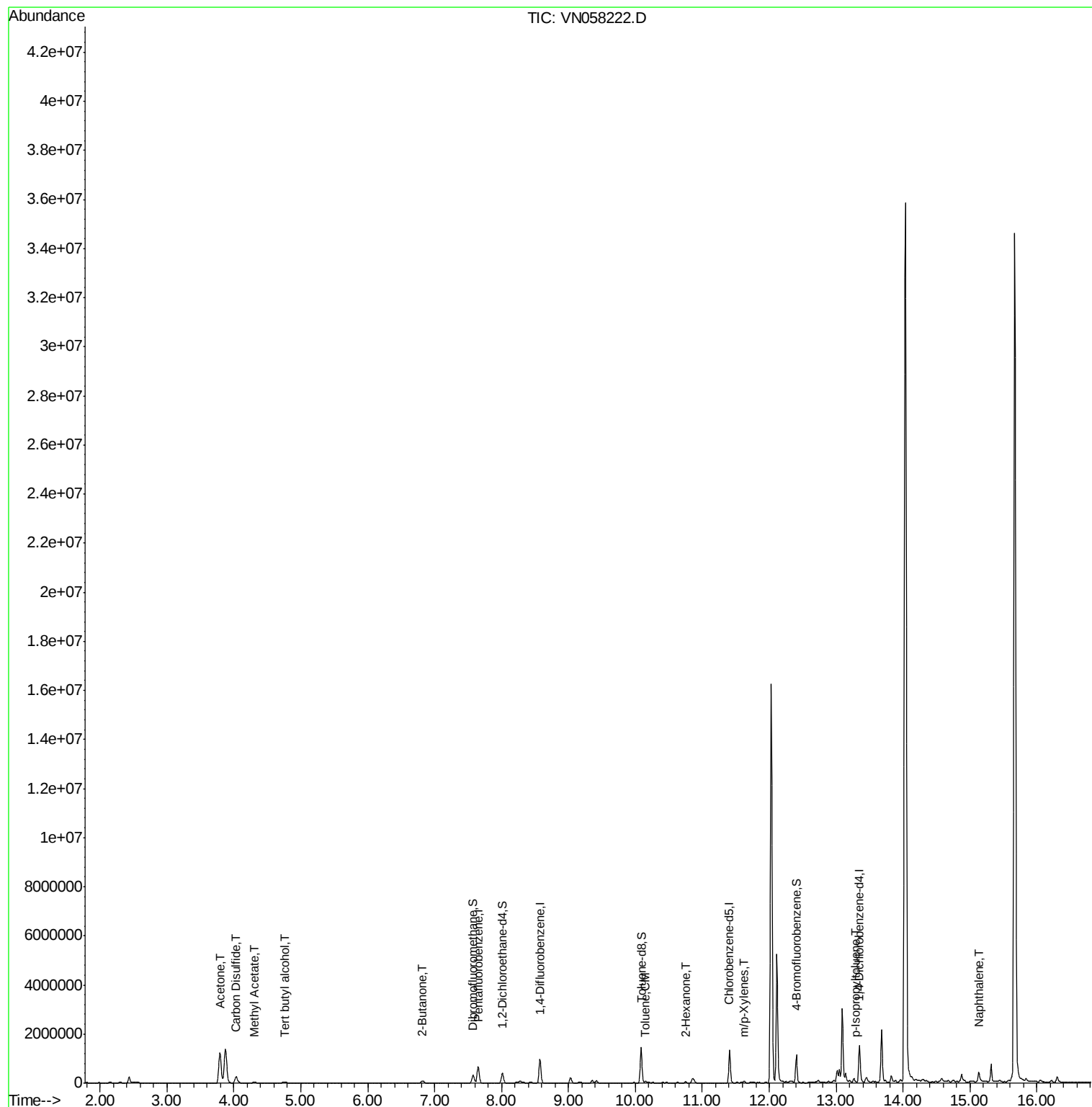
| Target Compounds       | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol | 4.75  | 59   | 84662    | 98.398  | ug/l   | 99     |
| 16) Acetone            | 3.79  | 43   | 2066048  | 841.493 | ug/l   | 98     |
| 17) Carbon Disulfide   | 4.04  | 76   | 39268    | 8.979   | ug/l   | 99     |
| 18) Methyl Acetate     | 4.31  | 43   | 72102    | 11.160  | ug/l   | 99     |
| 25) 2-Butanone         | 6.82  | 43   | 165266   | 49.408  | ug/l   | 99     |
| 52) Toluene            | 10.15 | 92   | 22499    | 1.927   | ug/l   | 99     |
| 59) 2-Hexanone         | 10.75 | 43   | 43321    | 9.290   | ug/l   | 97     |
| 68) m/p-Xylenes        | 11.62 | 106  | 18427    | 2.209   | ug/l   | 94     |
| 86) p-Isopropyltoluene | 13.29 | 119  | 21917    | 1.075   | ug/l # | 73     |
| 95) Naphthalene        | 15.13 | 128  | 309530   | 17.444  | ug/l   | 99     |

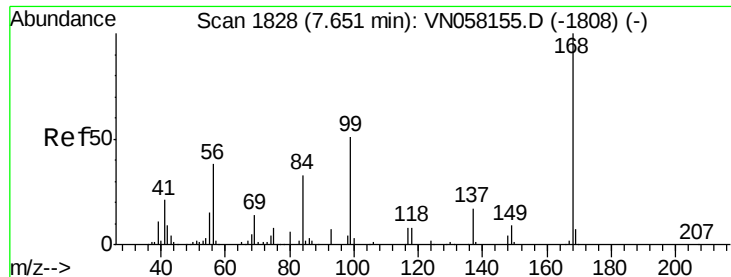
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Sep 19 09:27:53 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: VN058222.D

Acq: 19 Sep 2019 22:12

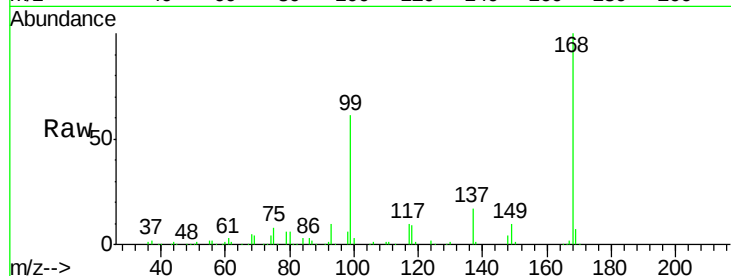
Instrument :  
MSVOA\_N  
ClientSampleId :  
40278

Tot Ion:168 Resp: 519322

Ion Ratio Lower Upper

168 100

99 61.0 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

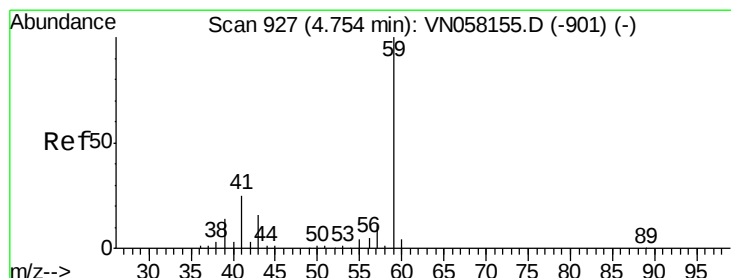
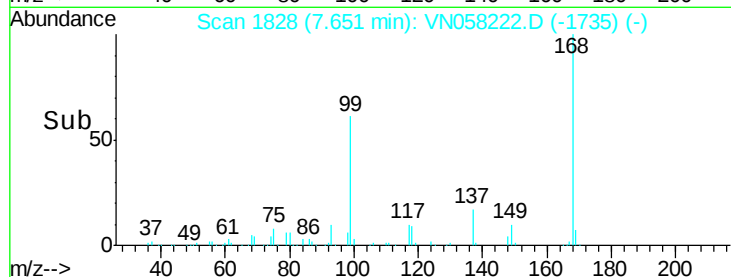
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 98.398 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.00 min

Lab File: VN058222.D

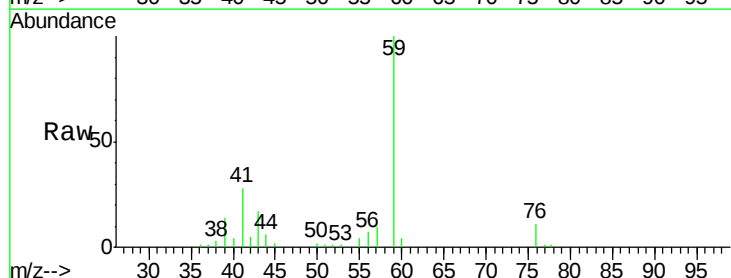
Acq: 19 Sep 2019 22:12

Tgt Ion: 59 Resp: 84662

Ion Ratio Lower Upper

59 100

57 11.3 8.6 13.0



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.75

30000

25000

20000

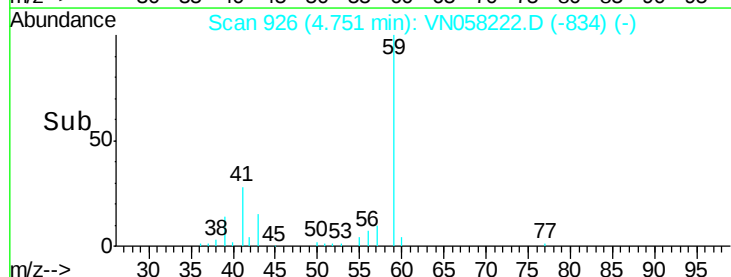
15000

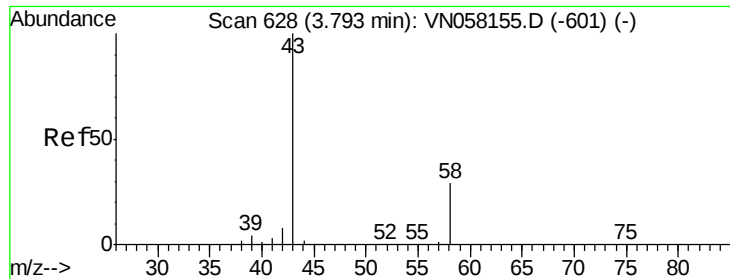
10000

5000

0

Time-->





#16

Acetone

Concen: 841.493 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN058222.D

Acq: 19 Sep 2019 22:12

Instrument :

MSVOA\_N

ClientSampled :

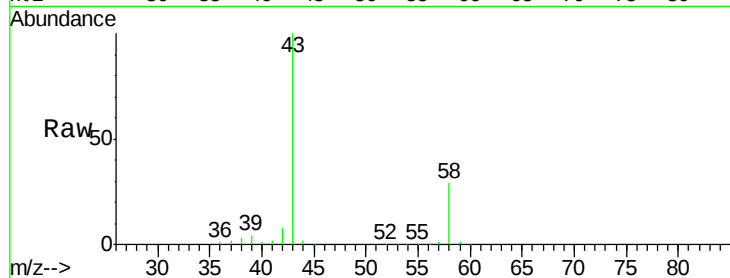
40278

Tot Ion: 43 Resp: 2066048

Ion Ratio Lower Upper

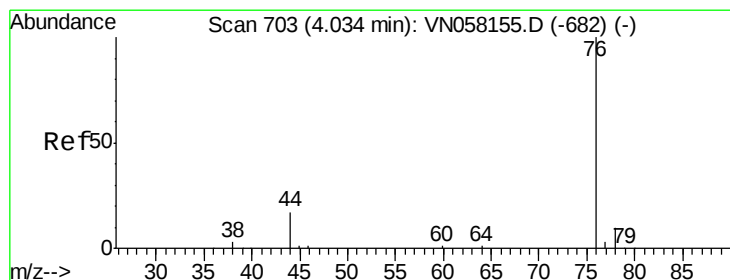
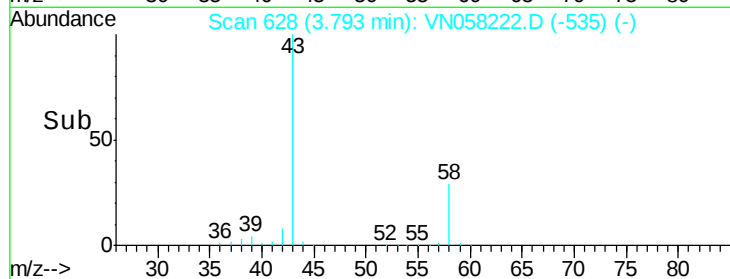
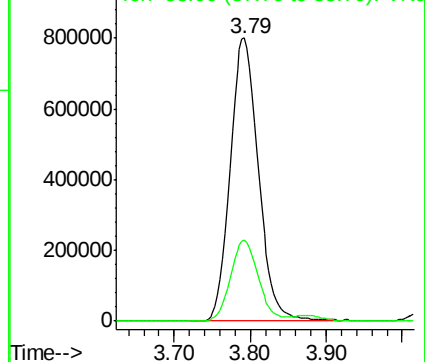
43 100

58 28.5 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 8.979 ug/l

RT: 4.04 min Scan# 704

Delta R.T. 0.00 min

Lab File: VN058222.D

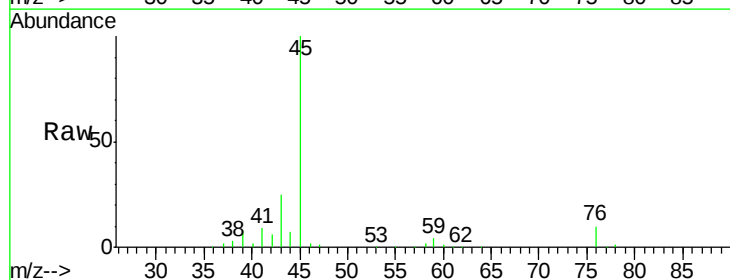
Acq: 19 Sep 2019 22:12

Tgt Ion: 76 Resp: 39268

Ion Ratio Lower Upper

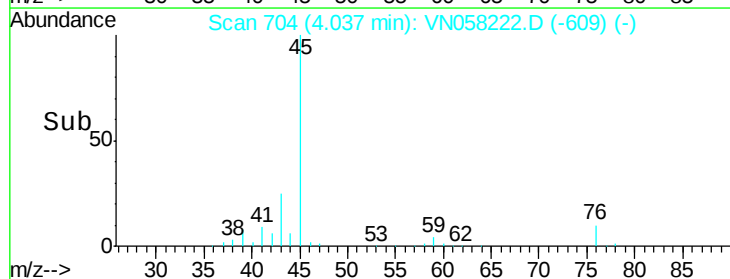
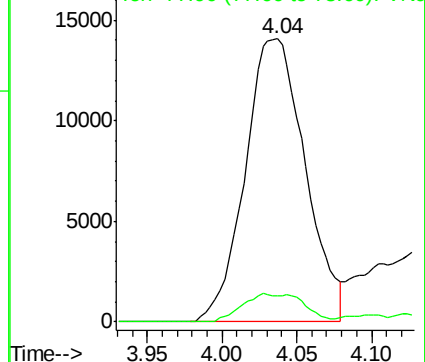
76 100

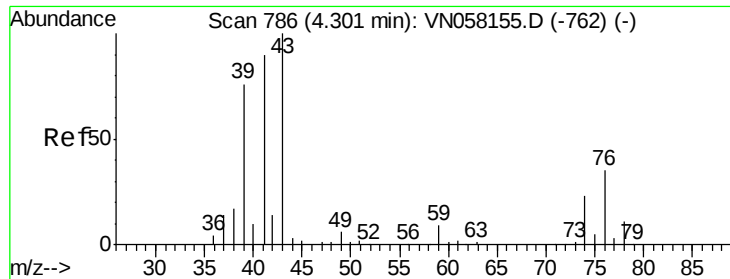
78 9.2 7.7 11.5



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

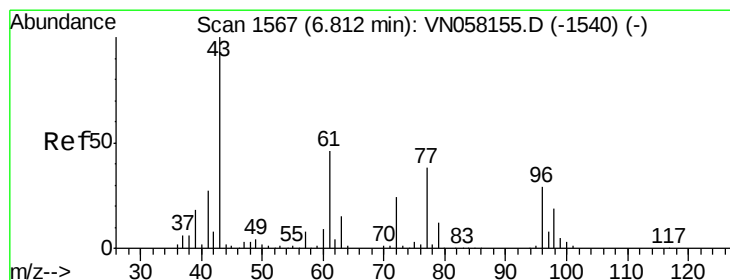
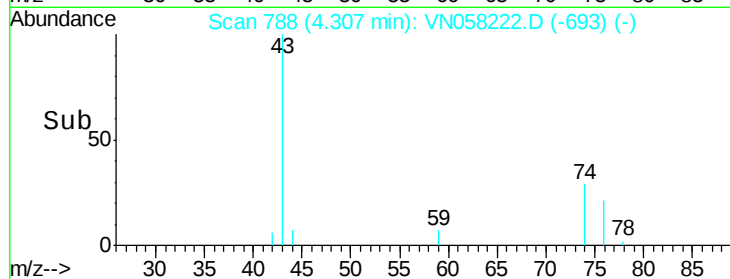
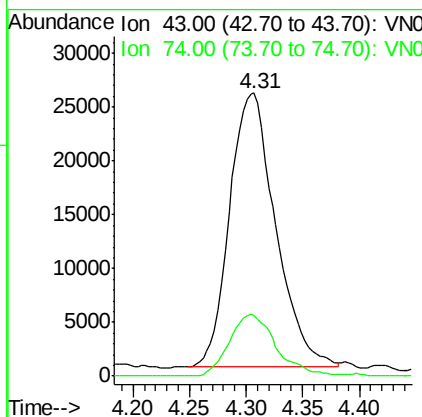
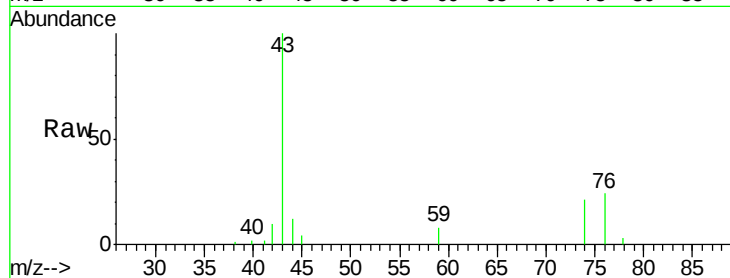




#18  
Methvl Acetate  
Concen: 11.160 ug/l  
RT: 4.31 min Scan# 788  
Delta R.T. 0.01 min  
Lab File: VN058222.D  
Acq: 19 Sep 2019 22:12

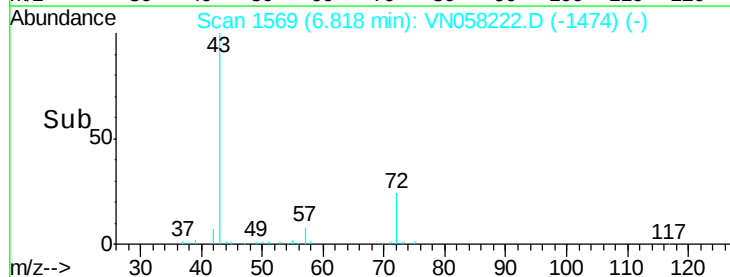
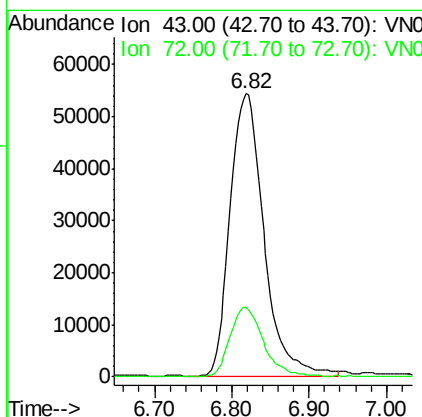
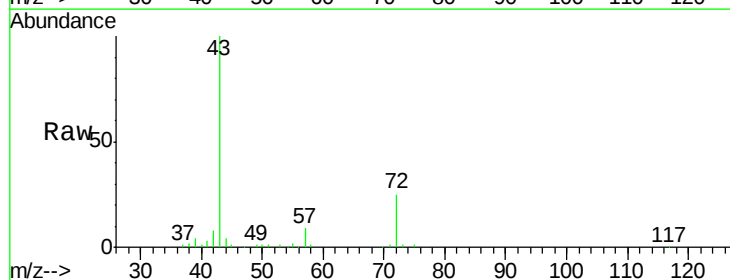
Instrument :  
MSVOA\_N  
ClientSampled :  
40278

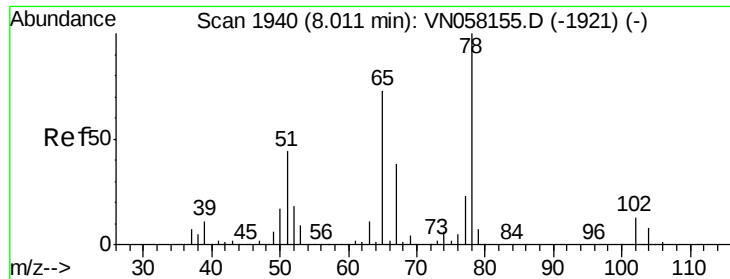
Tot Ion: 43 Resp: 72102  
Ion Ratio Lower Upper  
43 100  
74 22.8 18.0 27.0



#25  
2-Butanone  
Concen: 49.408 ug/l  
RT: 6.82 min Scan# 1569  
Delta R.T. 0.01 min  
Lab File: VN058222.D  
Acq: 19 Sep 2019 22:12

Tgt Ion: 43 Resp: 165266  
Ion Ratio Lower Upper  
43 100  
72 24.7 19.5 29.3

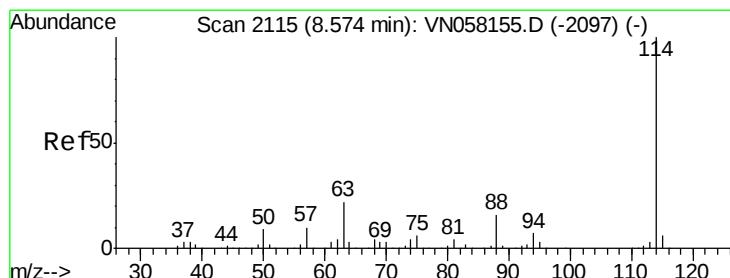
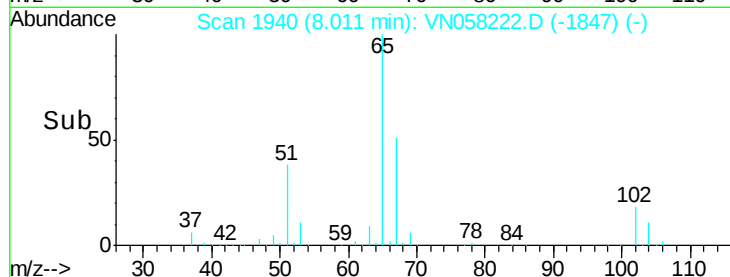
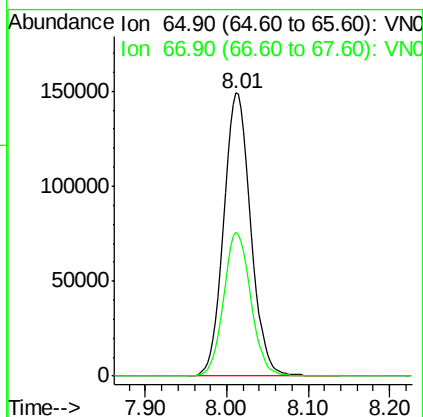
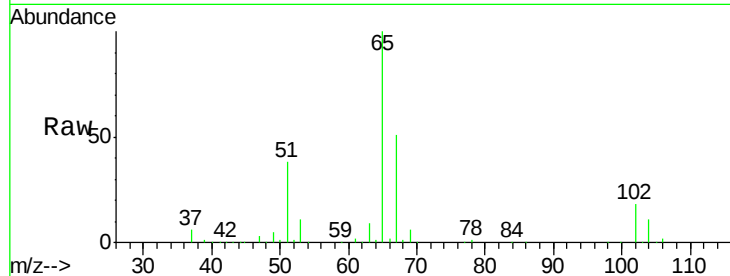




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.291 ug/l  
 RT: 8.01 min Scan# 1940  
 Delta R.T. 0.00 min  
 Lab File: VN058222.D  
 Acq: 19 Sep 2019 22:12

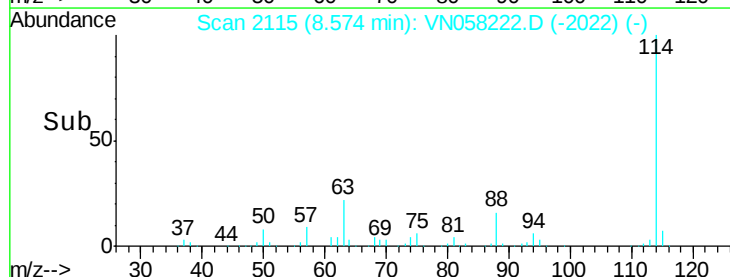
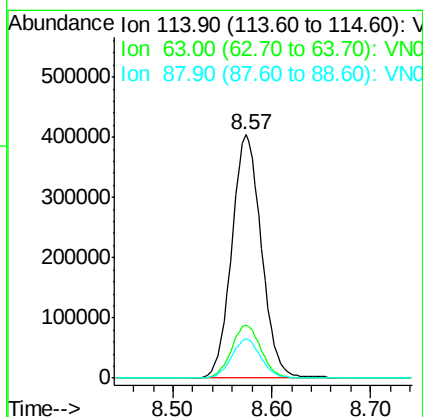
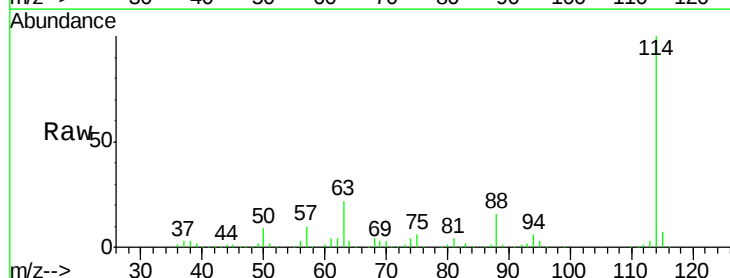
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 40278

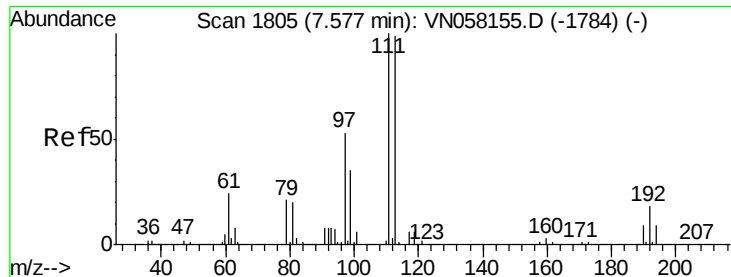
Tot Ion: 65 Resp: 349292  
 Ion Ratio Lower Upper  
 65 100  
 67 51.2 0.0 103.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. 0.00 min  
 Lab File: VN058222.D  
 Acq: 19 Sep 2019 22:12

Tgt Ion: 114 Resp: 845703  
 Ion Ratio Lower Upper  
 114 100  
 63 21.9 0.0 44.2  
 88 16.1 0.0 31.6

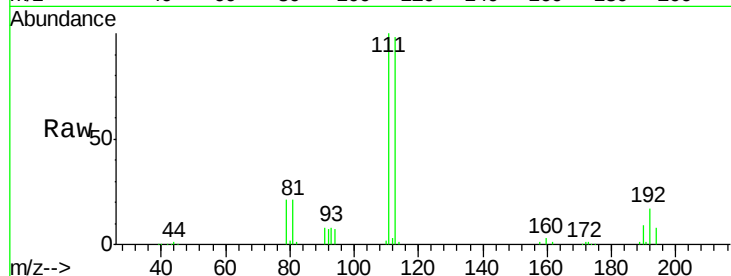




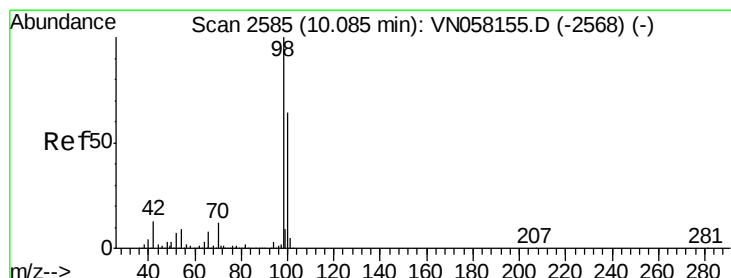
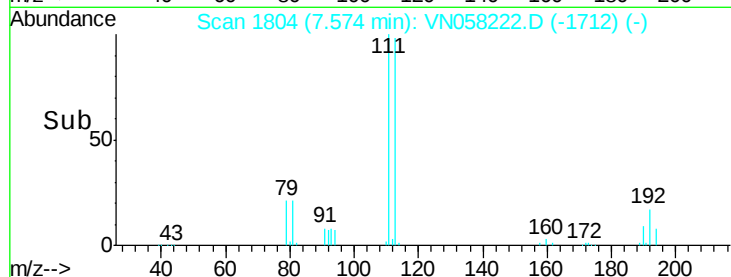
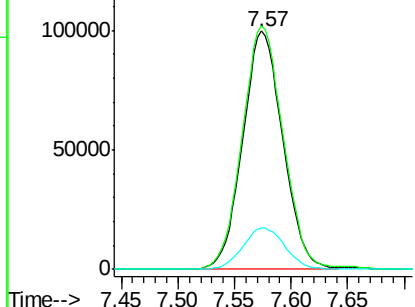
#35  
 Dibromofluoromethane  
 Concen: 47.736 ug/l  
 RT: 7.57 min Scan# 1804  
 Delta R.T. -0.00 min  
 Lab File: VN058222.D  
 Acq: 19 Sep 2019 22:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 40278

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.3 | 81.8  | 122.6 |
| 192     | 18.2  | 14.5  | 21.7  |

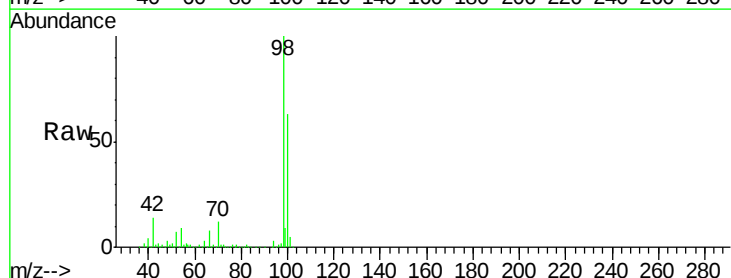


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

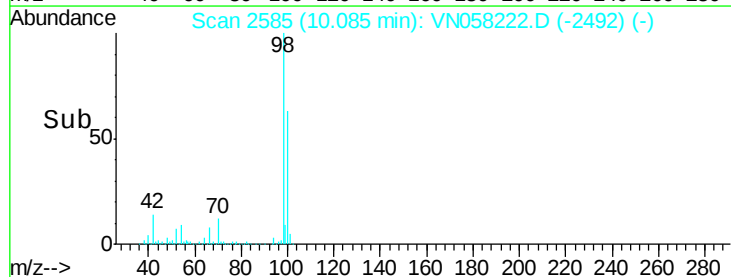
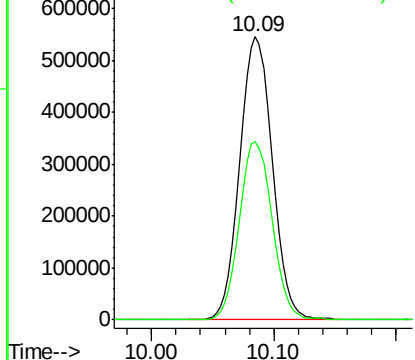


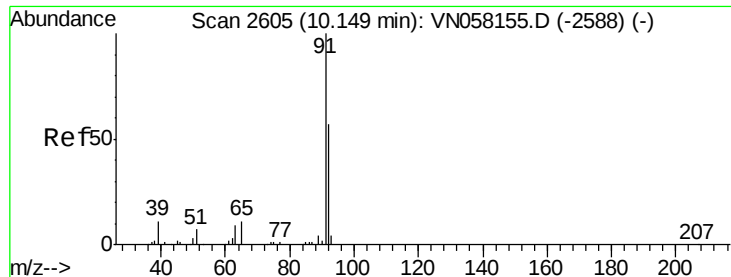
#50  
 Toluene-d8  
 Concen: 50.394 ug/l  
 RT: 10.09 min Scan# 2585  
 Delta R.T. 0.00 min  
 Lab File: VN058222.D  
 Acq: 19 Sep 2019 22:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 63.6  | 51.1  | 76.7  |



Abundance Ion 98.00 (97.70 to 98.70): V  
 Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 1.927 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058222.D

Acq: 19 Sep 2019 22:12

Instrument :

MSVOA\_N

ClientSampleId :

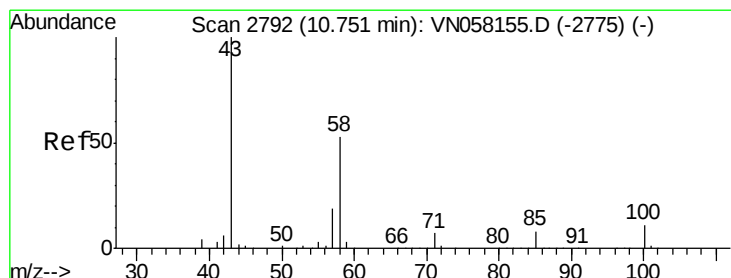
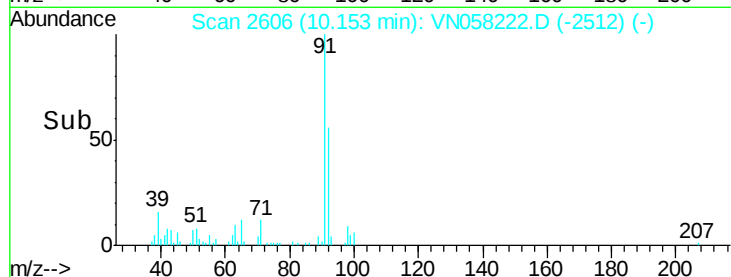
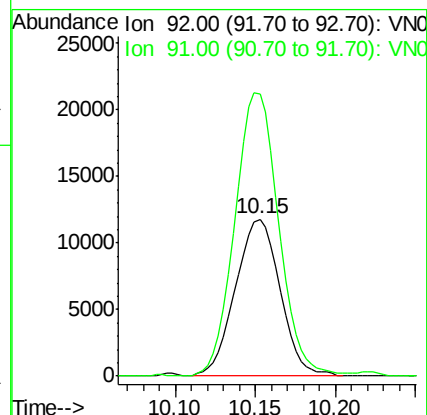
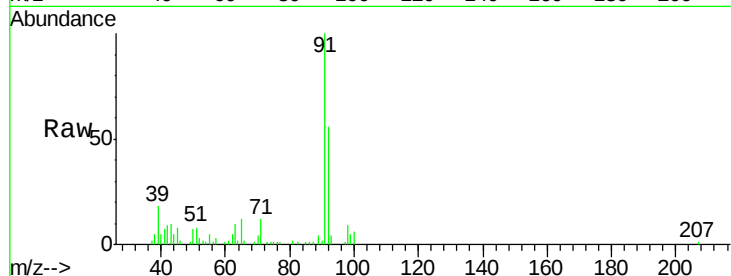
40278

Tot Ion: 92 Resp: 22499

Ion Ratio Lower Upper

92 100

91 177.1 140.2 210.2



#59

2-Hexanone

Concen: 9.290 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VN058222.D

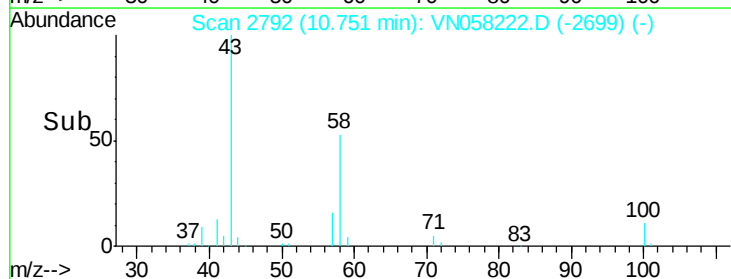
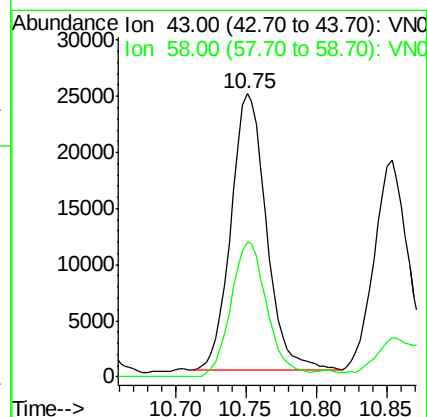
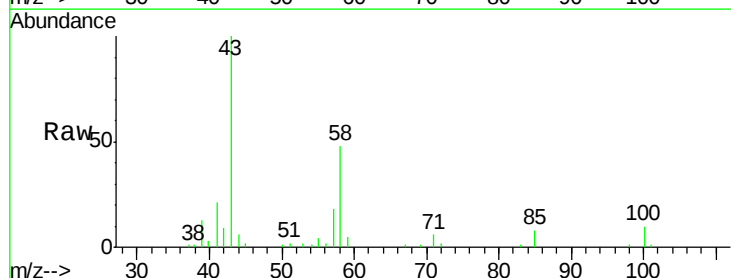
Acq: 19 Sep 2019 22:12

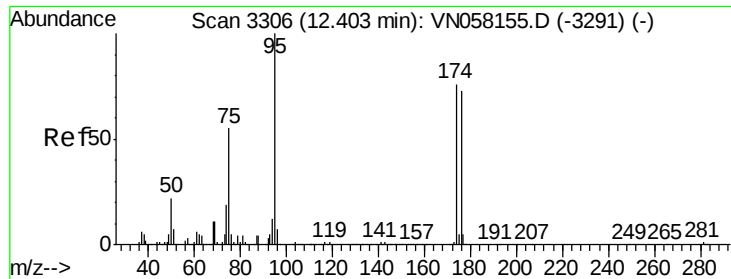
Tgt Ion: 43 Resp: 43321

Ion Ratio Lower Upper

43 100

58 49.7 26.0 78.0





#62

4-Bromofluorobenzene

Concen: 52.059 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058222.D

Acq: 19 Sep 2019 22:12

Instrument :

MSVOA\_N

ClientSampleId :

40278

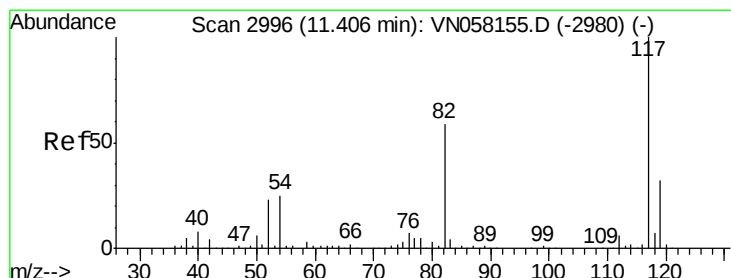
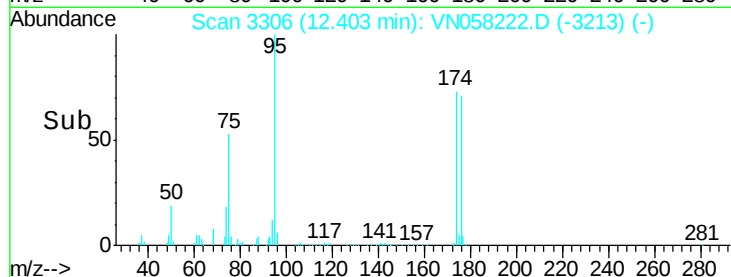
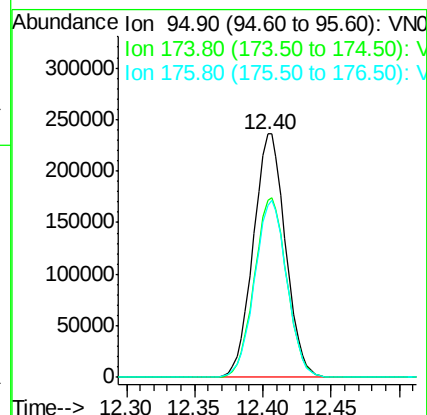
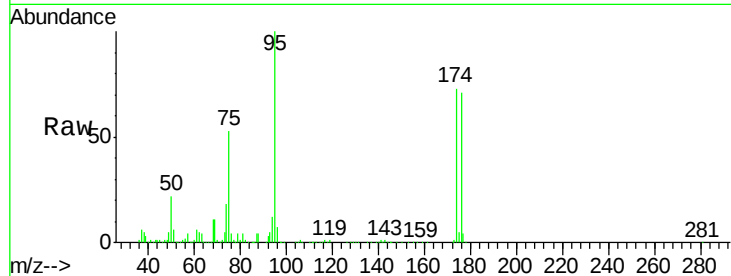
Tot Ion: 95 Resp: 387359

Ion Ratio Lower Upper

95 100

174 74.0 0.0 152.2

176 72.5 0.0 148.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058222.D

Acq: 19 Sep 2019 22:12

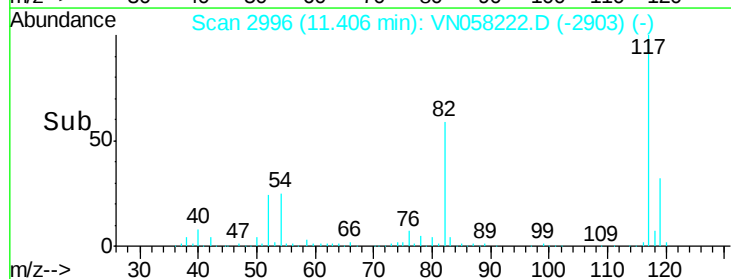
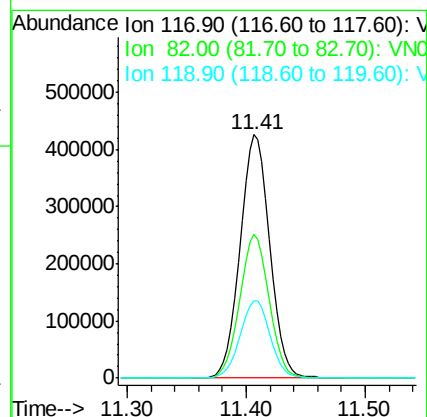
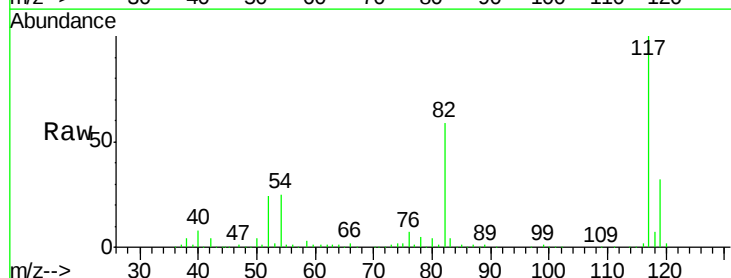
Tgt Ion: 117 Resp: 734992

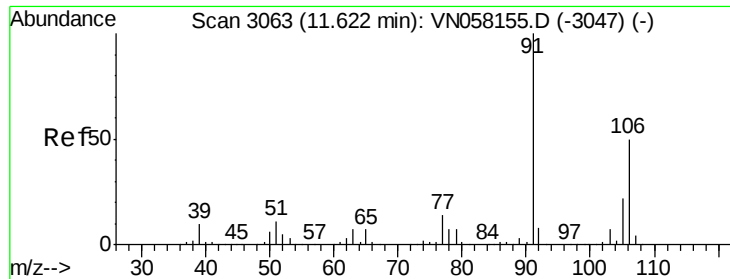
Ion Ratio Lower Upper

117 100

82 59.0 46.9 70.3

119 31.7 25.3 37.9

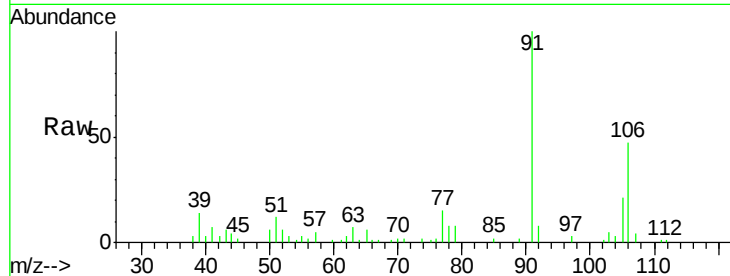




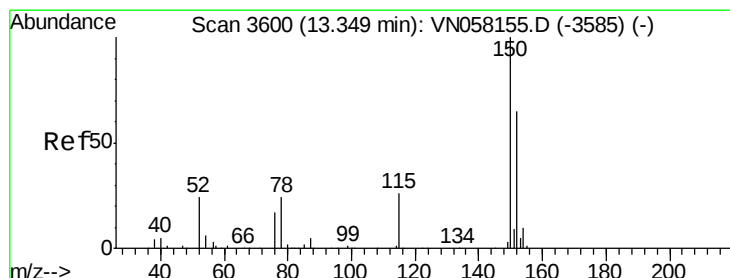
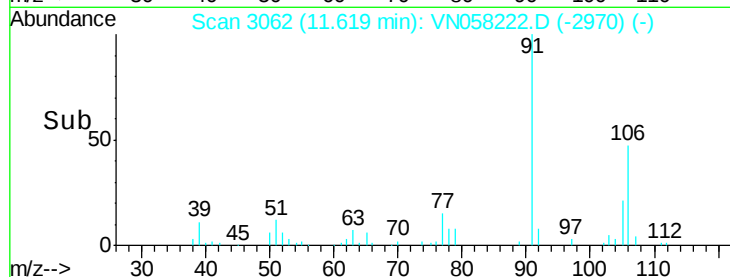
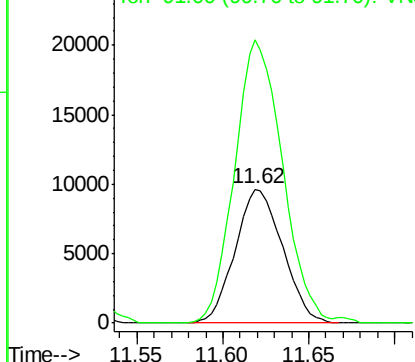
#68  
m/p-Xvlenes  
Concen: 2.209 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. -0.00 min  
Lab File: VN058222.D  
Acq: 19 Sep 2019 22:12

Instrument :  
MSVOA\_N  
ClientSampled :  
40278

Tot Ion:106 Resp: 18427  
Ion Ratio Lower Upper  
106 100  
91 213.3 163.6 245.4

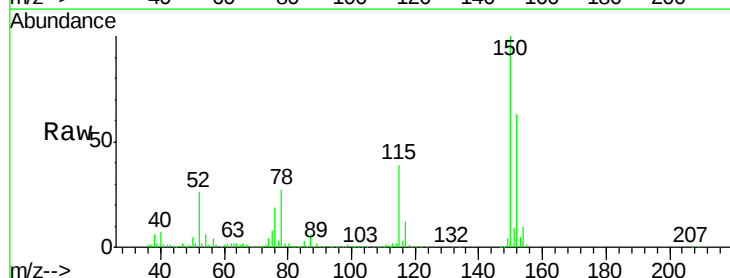


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN

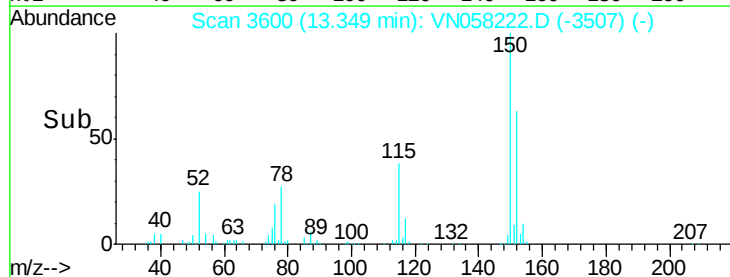
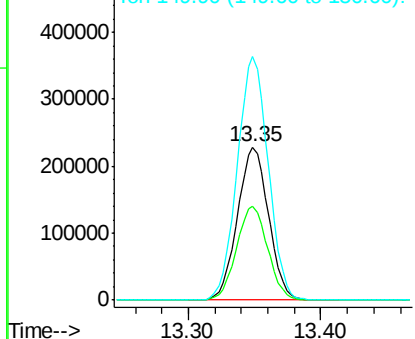


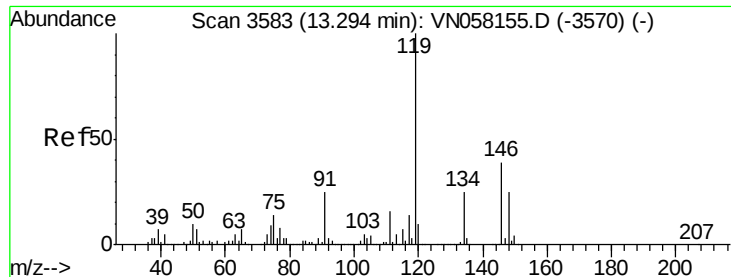
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3600  
Delta R.T. 0.00 min  
Lab File: VN058222.D  
Acq: 19 Sep 2019 22:12

Tgt Ion:152 Resp: 371480  
Ion Ratio Lower Upper  
152 100  
115 61.3 30.1 90.3  
150 158.6 0.0 346.4



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

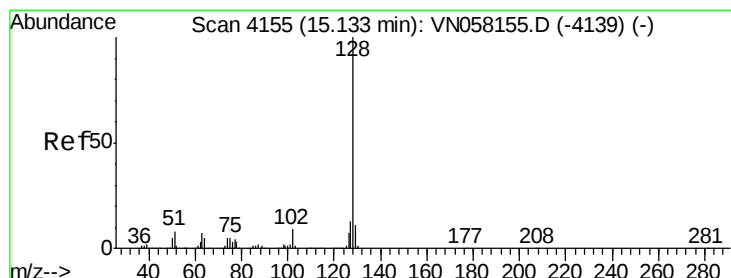
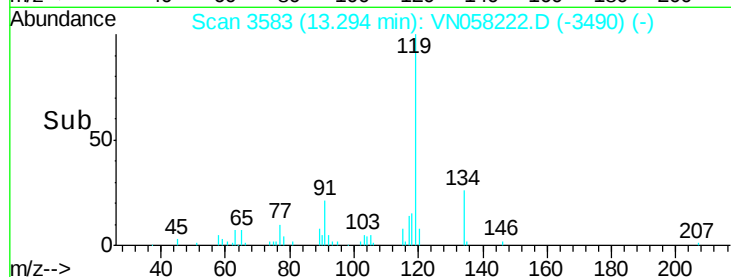
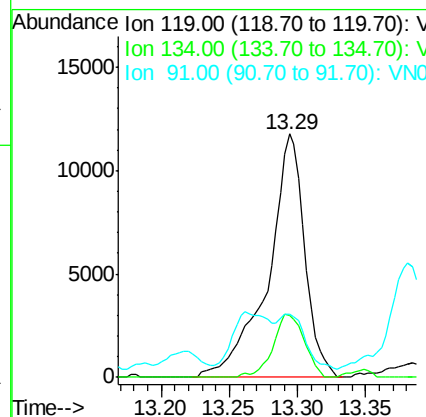
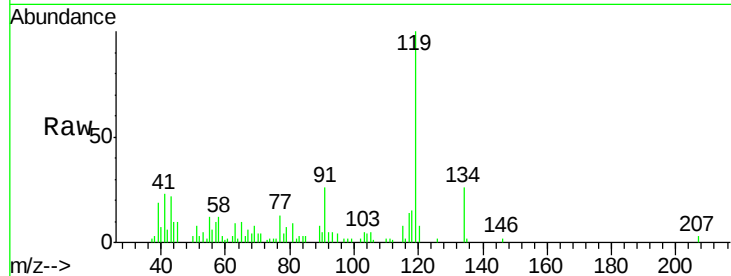




#86  
p-Isopropyltoluene  
Concen: 1.075 ug/l  
RT: 13.29 min Scan# 3583  
Delta R.T. 0.00 min  
Lab File: VN058222.D  
Acq: 19 Sep 2019 22:12

Instrument :  
MSVOA\_N  
ClientSampleId :  
40278

Tot Ion:119 Resp: 21917  
Ion Ratio Lower Upper  
119 100  
134 22.1 12.7 38.0  
91 0.0 12.3 36.8#



#95  
Naphthalene  
Concen: 17.444 ug/l  
RT: 15.13 min Scan# 4155  
Delta R.T. 0.00 min  
Lab File: VN058222.D  
Acq: 19 Sep 2019 22:12

Tgt Ion:128 Resp: 309530  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.2 15.2  
129 11.0 8.6 12.8

