

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052119\  
 Data File : VN055710.D  
 Acq On : 21 May 2019 15:30  
 Operator : JC/SP  
 Sample : K2959-03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 20659

Manual Integrations  
 APPROVED

MMDadoda  
 5/22/2019 4:11:37 PM

Quant Time: May 22 05:46:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051719W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 17 23:54:12 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 7.67  | 168  | 414734   | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.59  | 114  | 586344   | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 508035   | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.34 | 152  | 178676   | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 189180   | 41.61 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 83.22% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 178594   | 47.95 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.90% |          |
| 50) Toluene-d8              | 10.09 | 98   | 682868   | 48.49 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 96.98% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 213366   | 43.87 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 87.74% |          |
| Target Compounds            |       |      |          |       |        |          |
| 16) Acetone                 | 3.82  | 43   | 9466     | 5.102 | ug/l   | 96       |
| 43) Isopropyl Acetate       | 8.19  | 43   | 19400m   | 2.364 | ug/l   |          |

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

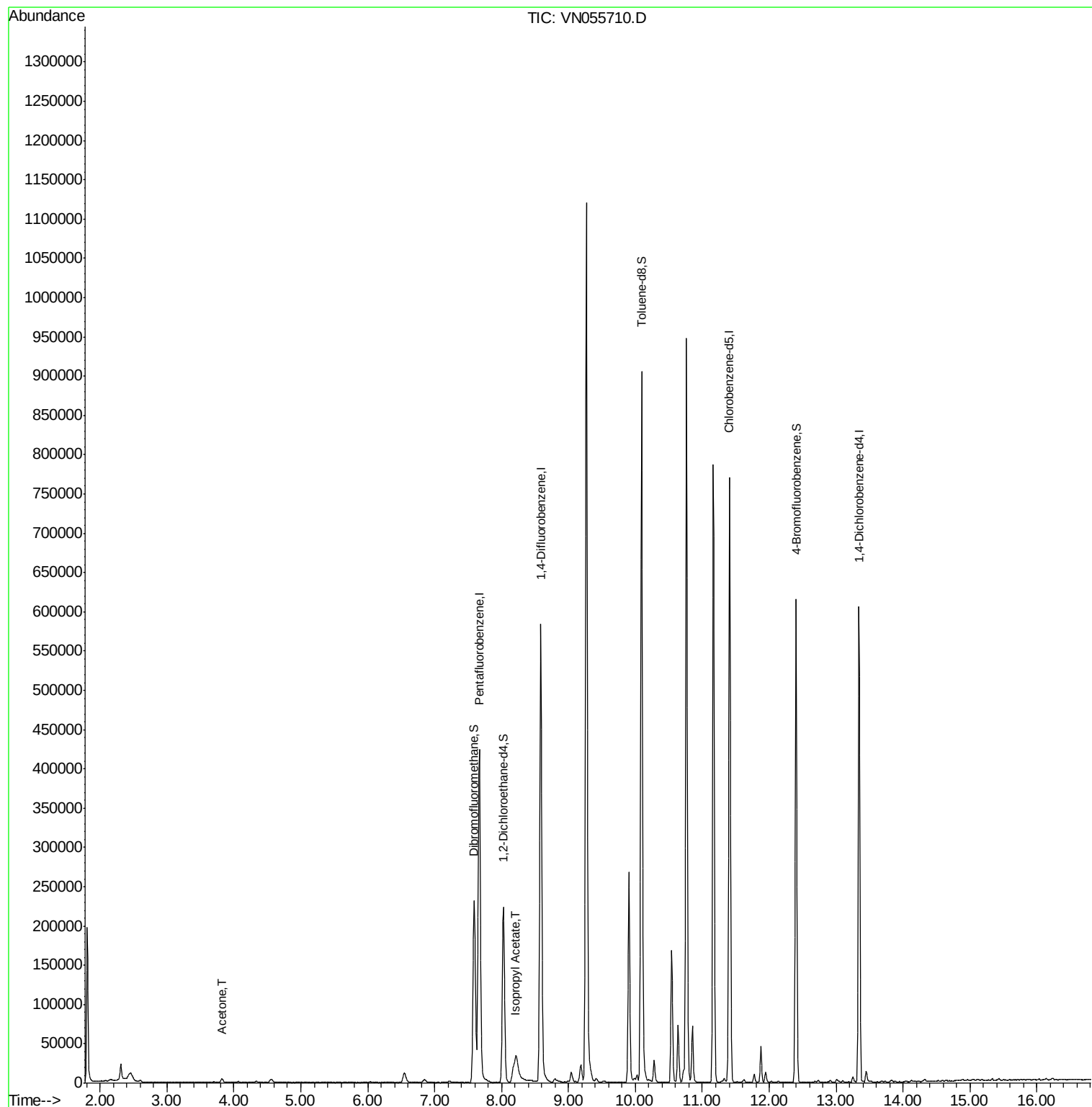
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN052119\  
Data File : VN055710.D  
Acq On : 21 May 2019 15:30  
Operator : JC/SP  
Sample : K2959-03  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 16 Sample Multiplier: 1

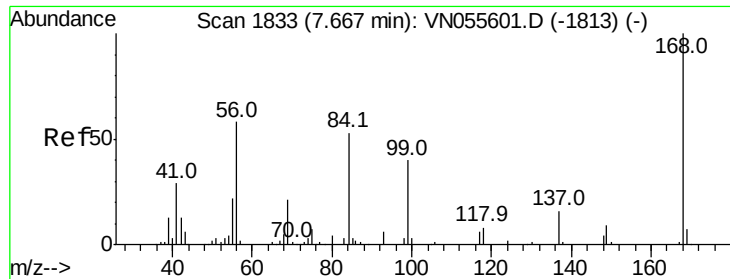
Instrument :  
MSVOA\_N  
ClientSampleId :  
20659

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Quant Time: May 22 05:46:59 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N051719W.M  
Quant Title : SW846 8260  
QLast Update : Fri May 17 23:54:12 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN055710.D

Acq: 21 May 2019 15:30

Instrument :

MSVOA\_N

ClientSampled :

20659

Tot Ion:168 Resp: 414734

Ion Ratio Lower Upper

168 100

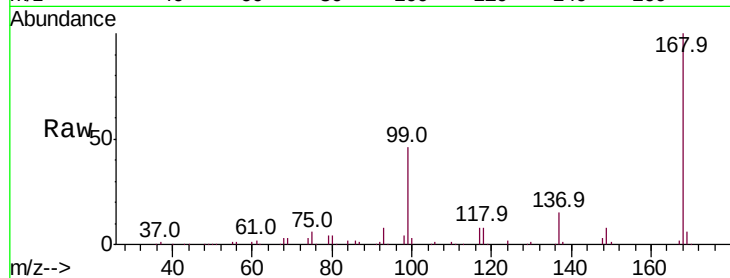
99 46.3 40.2 60.2

Manual Integrations

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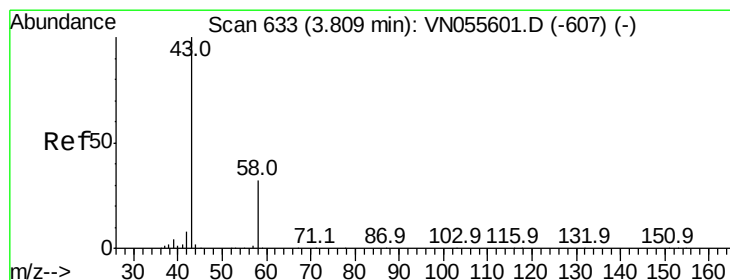
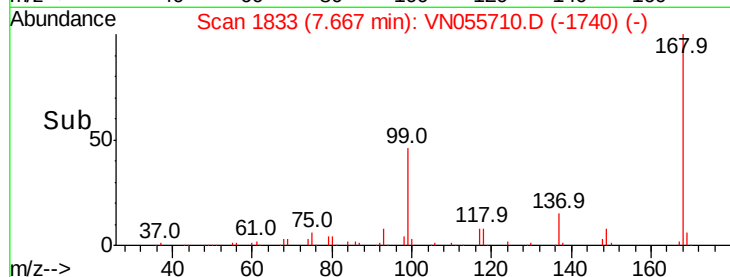
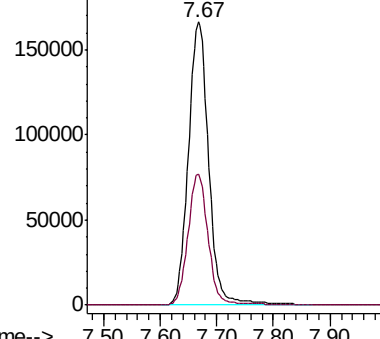
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 5.102 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.02 min

Lab File: VN055710.D

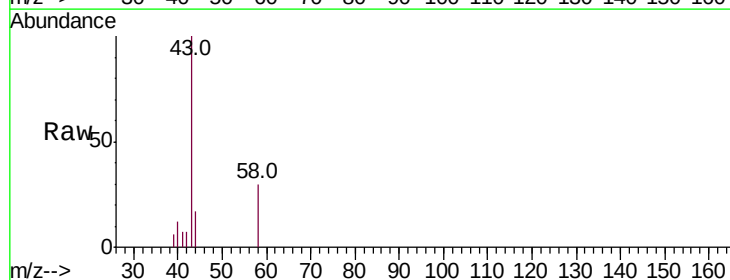
Acq: 21 May 2019 15:30

Tgt Ion: 43 Resp: 9466

Ion Ratio Lower Upper

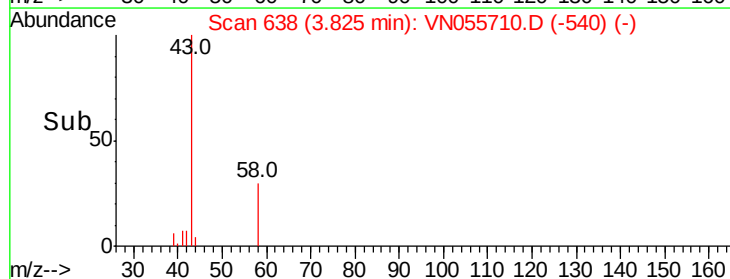
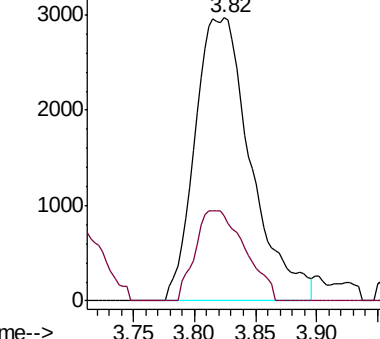
43 100

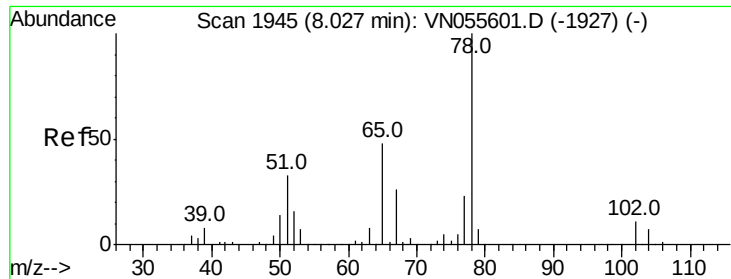
58 30.0 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





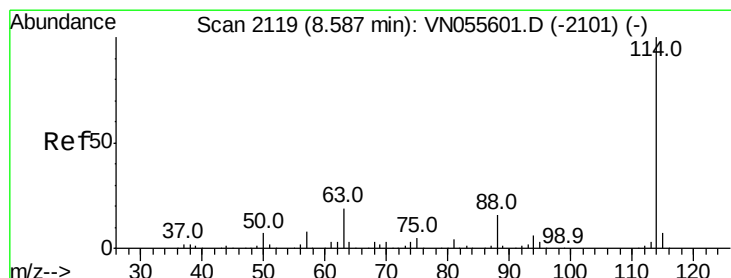
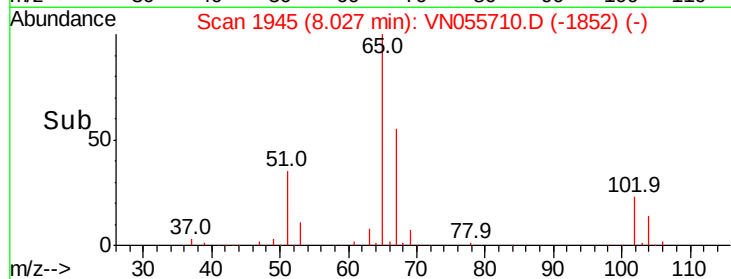
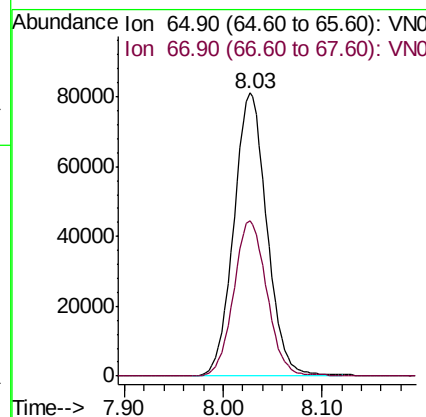
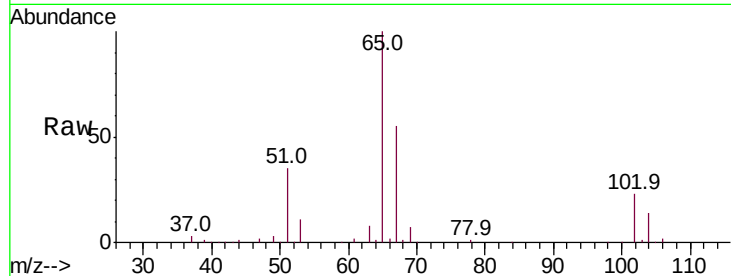
#33  
 1,2-Dichloroethane-d4  
 Concen: 41.612 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. -0.00 min  
 Lab File: VN055710.D  
 Acq: 21 May 2019 15:30

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 20659

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 189180 |       |       |
| 67      | 55.2  | 0.0    | 108.6 |       |

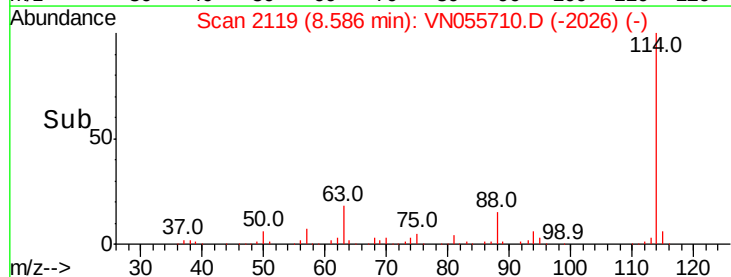
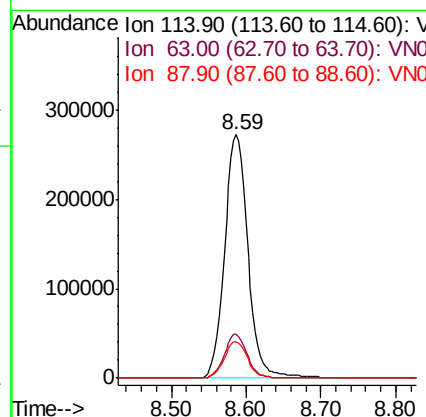
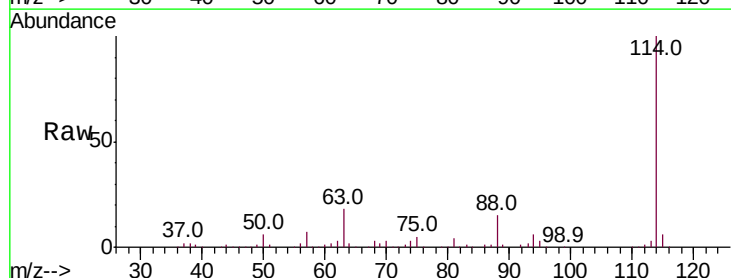
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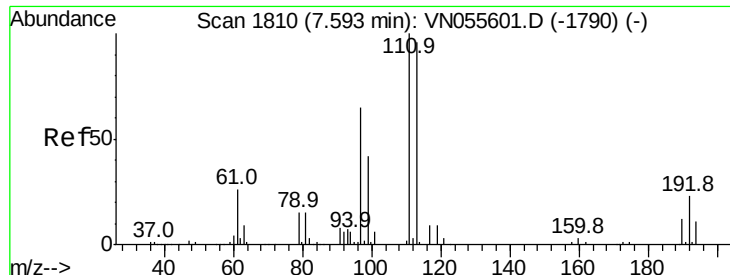
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN055710.D  
 Acq: 21 May 2019 15:30

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 586344 |       |       |
| 63      | 18.0  | 0.0    | 38.2  |       |
| 88      | 15.0  | 0.0    | 31.0  |       |





#35

Dibromofluoromethane

Concen: 47.948 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN055710.D

Acq: 21 May 2019 15:30

Instrument :

MSVOA\_N

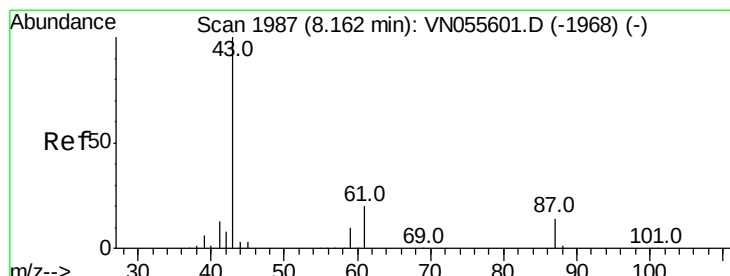
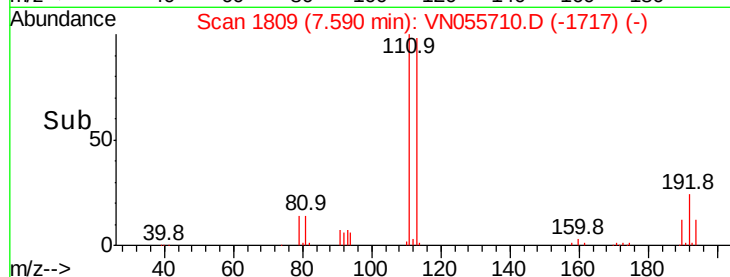
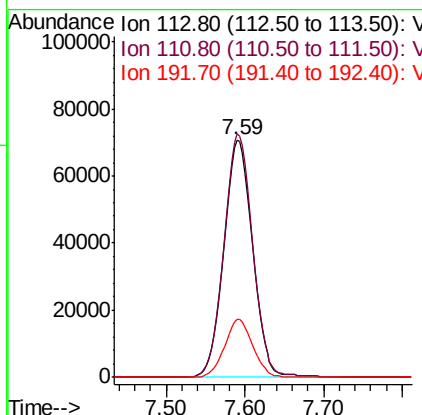
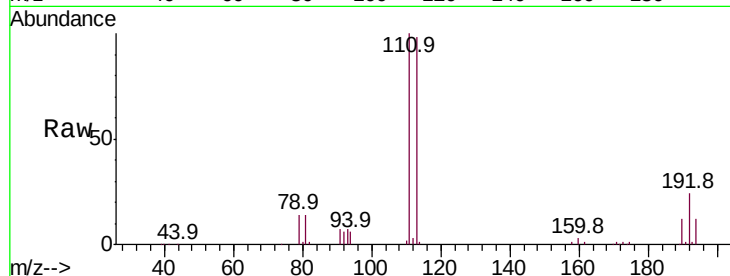
ClientSampled :

20659

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 113   | Resp: | 178594 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 102.6 | 82.5  | 123.7  |
| 192       | 23.9  | 18.7  | 28.1   |

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#43

Isopropyl Acetate

Concen: 2.364 ug/l m

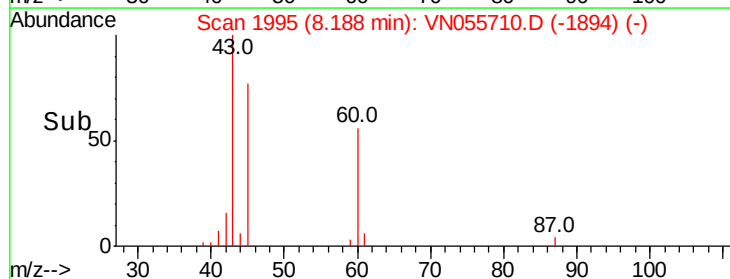
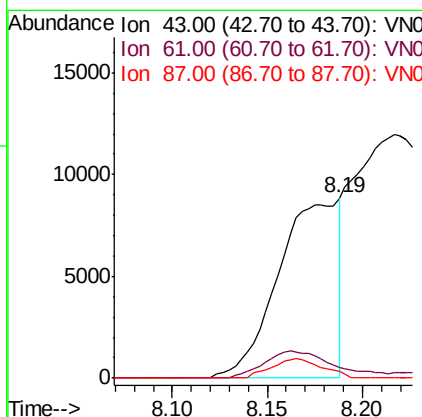
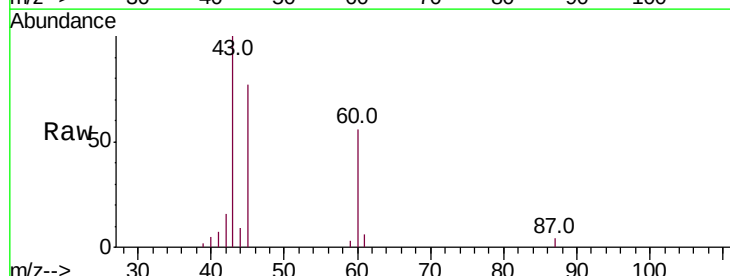
RT: 8.19 min Scan# 1995

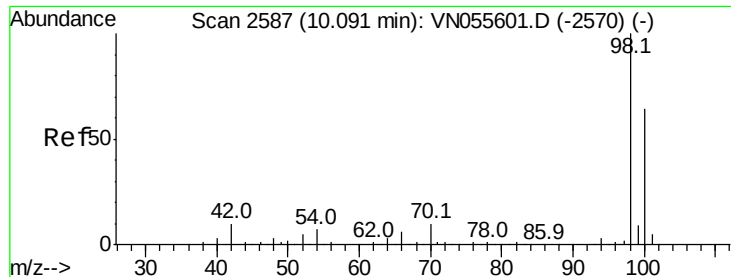
Delta R.T. 0.03 min

Lab File: VN055710.D

Acq: 21 May 2019 15:30

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 19400 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 61        | 0.0   | 22.1  | 33.1# |
| 87        | 0.0   | 11.8  | 17.6# |





#50

Toluene-d8

Concen: 48.487 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055710.D

Acq: 21 May 2019 15:30

Instrument :

MSVOA\_N

ClientSampled :

20659

Tot Ion: 98 Resp: 682868

Ion Ratio Lower Upper

98 100

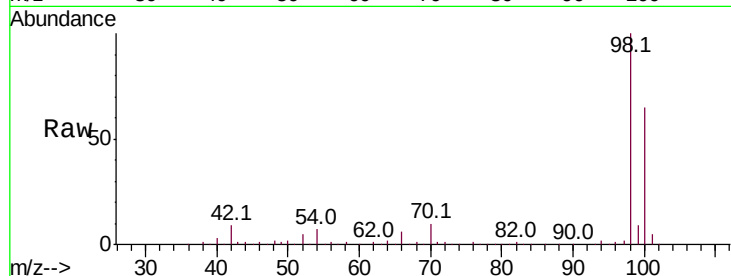
100 64.7 51.9 77.9

Manual Integrations

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Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

400000

300000

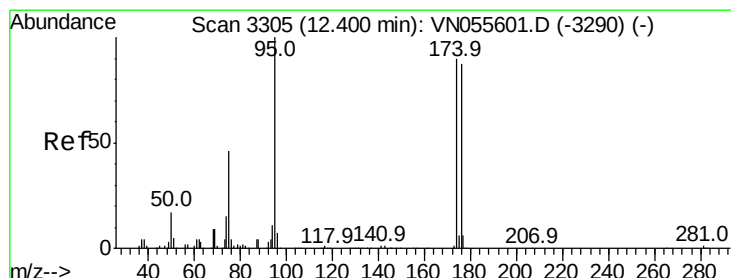
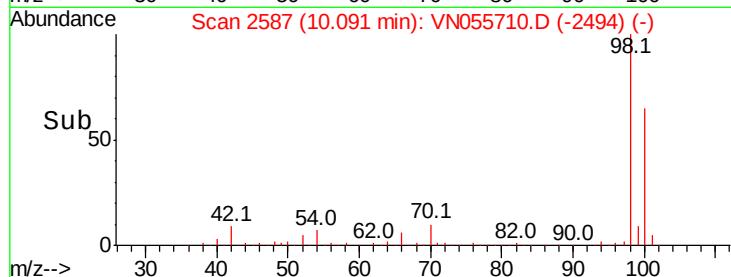
200000

100000

0

10.00 10.10 10.20

Time-->



#62

4-Bromofluorobenzene

Concen: 43.873 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055710.D

Acq: 21 May 2019 15:30

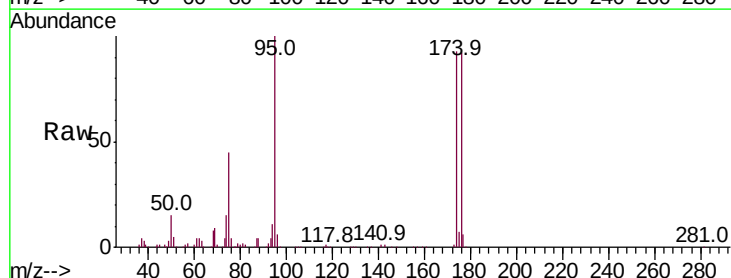
Tgt Ion: 95 Resp: 213366

Ion Ratio Lower Upper

95 100

174 95.1 0.0 180.6

176 92.6 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

150000

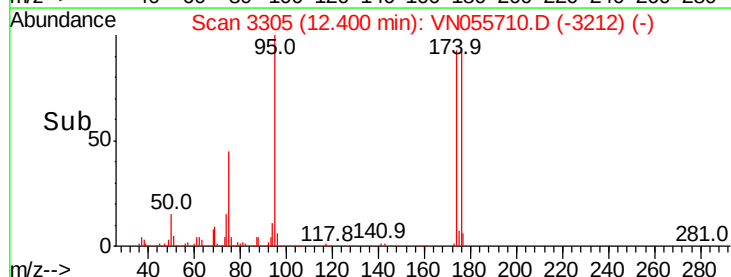
100000

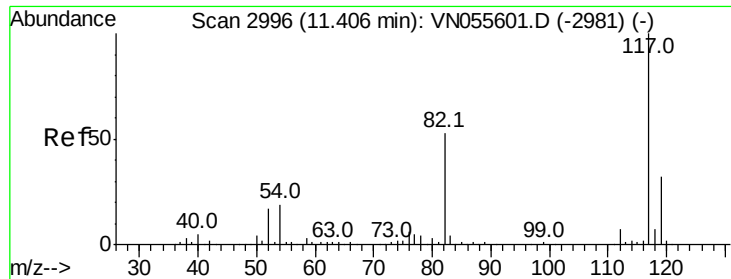
50000

0

12.30 12.40 12.50

Time-->





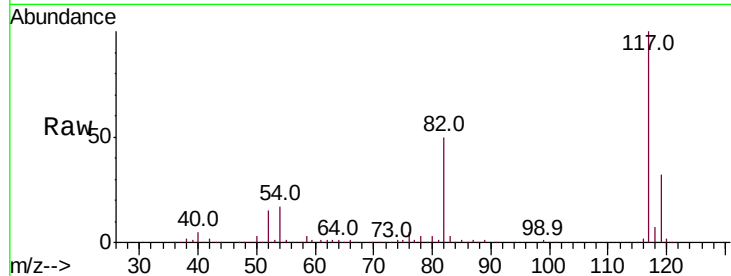
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN055710.D  
Acq: 21 May 2019 15:30

Instrument :  
MSVOA\_N  
ClientSampled :  
20659

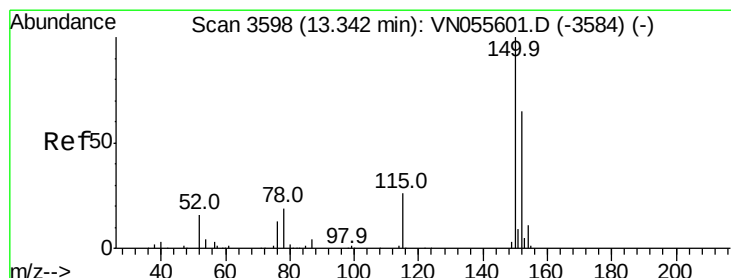
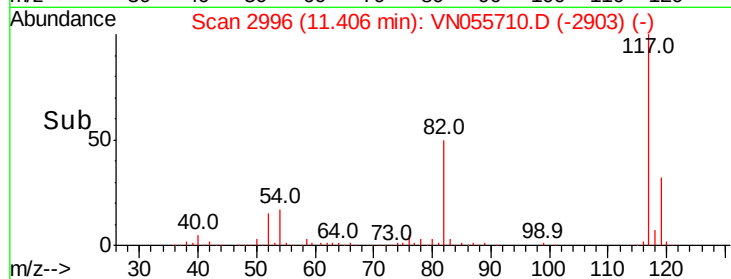
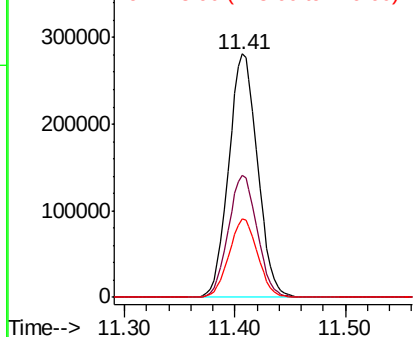
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 50.2  | 42.3  | 63.5  |
| 119     | 32.0  | 25.4  | 38.2  |

Manual Integrations  
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5/22/2019 4:11:37 PM

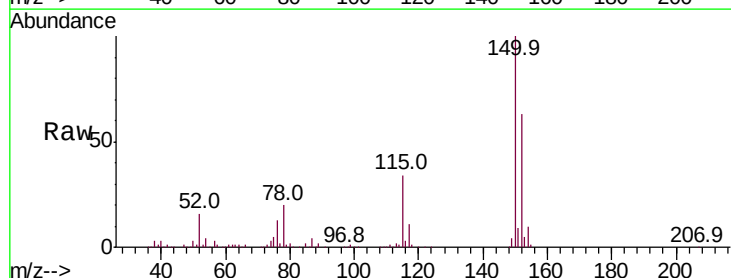


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. -0.00 min  
Lab File: VN055710.D  
Acq: 21 May 2019 15:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 53.3  | 28.1  | 84.2  |
| 150     | 156.7 | 0.0   | 348.0 |



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

