

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081619\  
 Data File : VN057335.D  
 Acq On : 15 Aug 2019 16:41  
 Operator : JC/SP  
 Sample : K4264-14  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 REACTOR-3-G3-(2)

Manual Integrations  
 APPROVED

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 8/19/2019 1:54:09 AM

Quant Time: Aug 16 02:28:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N081519W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 15 11:33:14 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 7.66  | 168  | 1087502  | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.58  | 114  | 1524674  | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.40 | 117  | 1270217  | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 320896   | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.02  | 65   | 514227   | 43.50 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 87.00% |          |
| 35) Dibromofluoromethane    | 7.58  | 113  | 455416   | 45.57 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 91.14% |          |
| 50) Toluene-d8              | 10.08 | 98   | 1771550  | 48.46 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 96.92% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 468878   | 36.30 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 72.60% |          |
| Target Compounds            |       |      |          |       |        |          |
| 20) Methylene Chloride      | 4.54  | 84   | 20927m   | 1.824 | ug/l   | Qvalue   |
| 43) Isopropyl Acetate       | 8.16  | 43   | 195481m  | 8.764 | ug/l   |          |

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

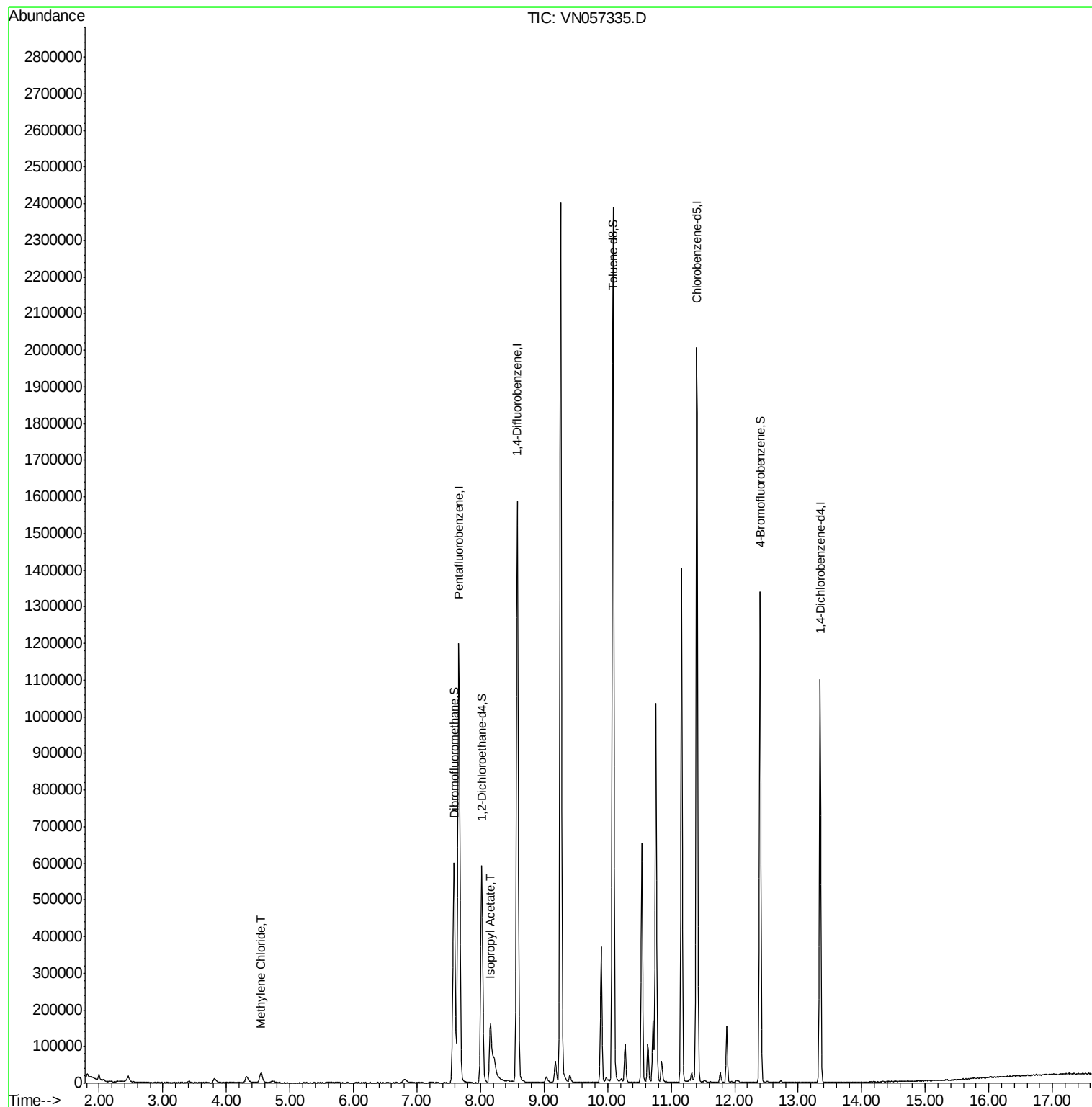
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081619\  
Data File : VN057335.D  
Acq On : 15 Aug 2019 16:41  
Operator : JC/SP  
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Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 20 Sample Multiplier: 1

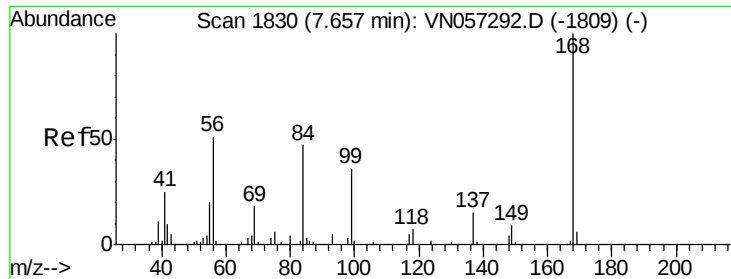
Instrument :  
MSVOA\_N  
ClientSampleId :  
REACTOR-3-G3-(2)

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Quant Time: Aug 16 02:28:02 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N081519W.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 15 11:33:14 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN057335.D

Acq: 15 Aug 2019 16:41

Instrument :

MSVOA\_N

ClientSampleId :

REACTOR-3-G3-(2)

Tot Ion:168 Resp: 1087502

Ion Ratio Lower Upper

168 100

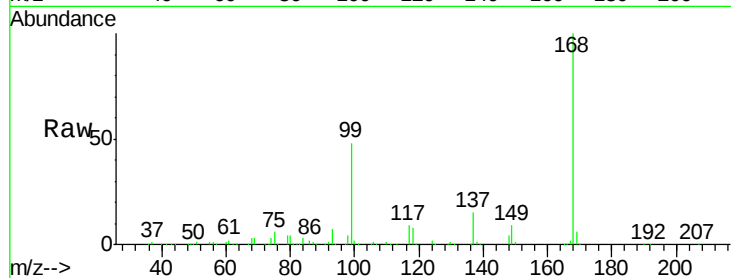
99 48.3 39.4 59.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

400000

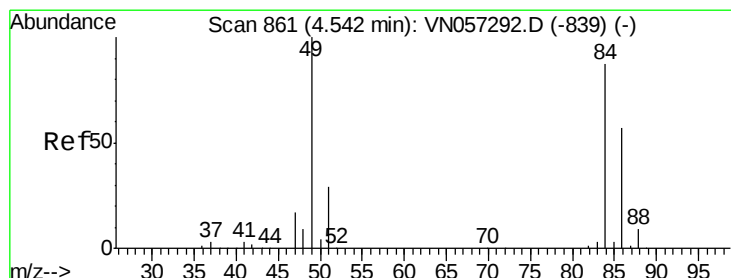
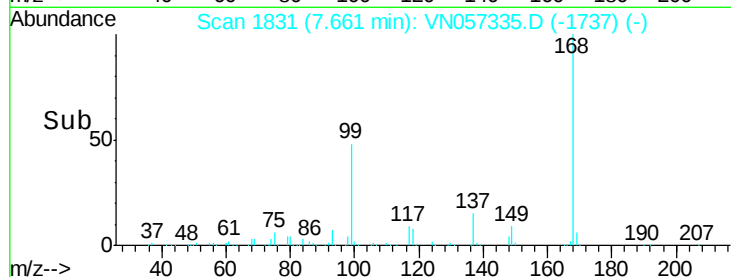
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 1.824 ug/l m

RT: 4.54 min Scan# 860

Delta R.T. -0.00 min

Lab File: VN057335.D

Acq: 15 Aug 2019 16:41

Tgt Ion: 84 Resp: 20927

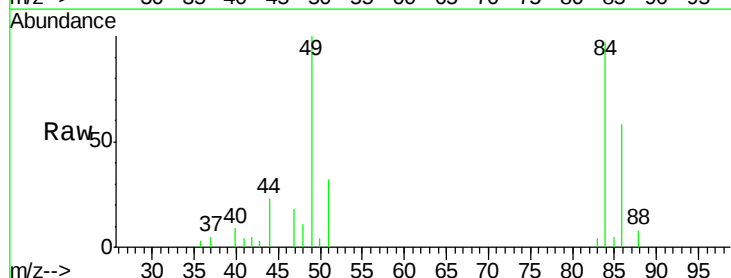
Ion Ratio Lower Upper

84 100

49 103.6 92.0 138.0

51 32.7 27.1 40.7

86 59.8 52.2 78.2



Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO

4.54

12000

10000

8000

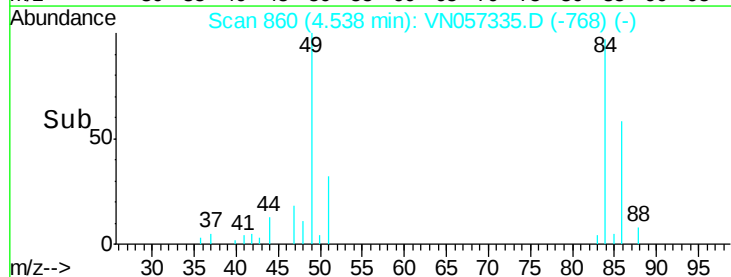
6000

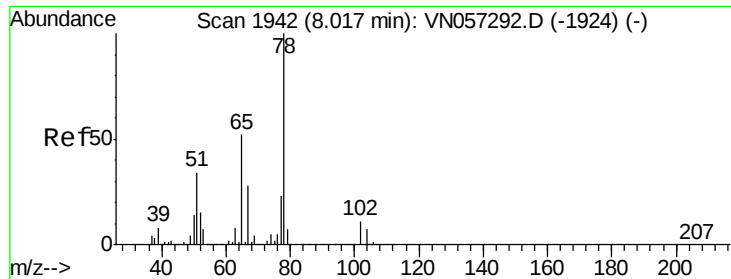
4000

2000

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 43.496 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN057335.D

Acq: 15 Aug 2019 16:41

Instrument :

MSVOA\_N

ClientSampleId :

REACTOR-3-G3-(2)

Tot Ion: 65 Resp: 514227

Ion Ratio Lower Upper

65 100

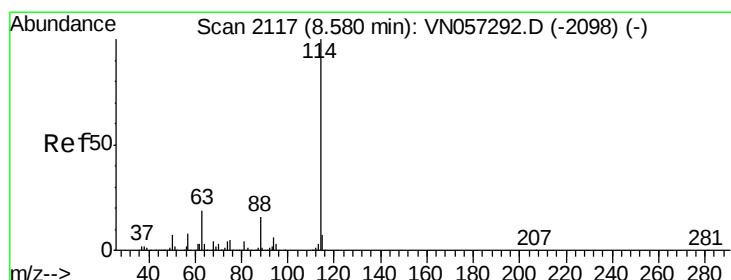
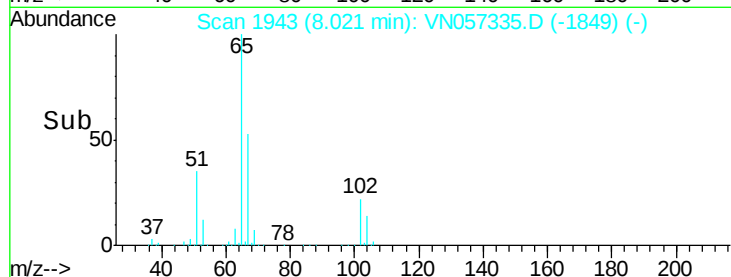
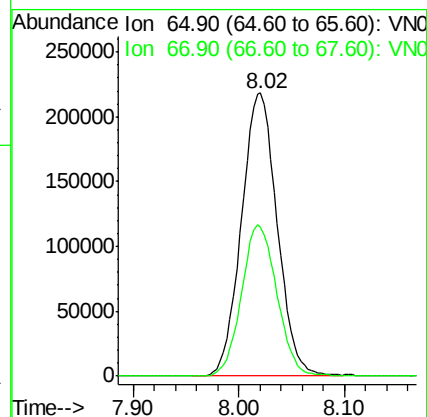
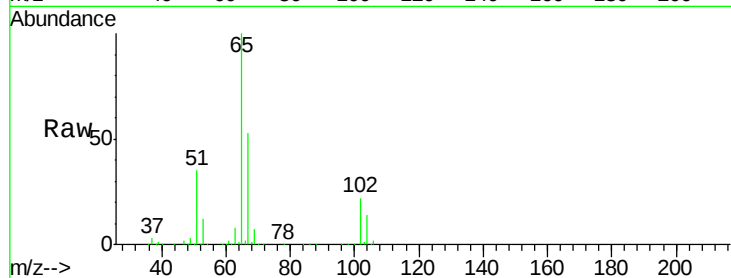
67 52.9 0.0 107.4

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2117

Delta R.T. 0.00 min

Lab File: VN057335.D

Acq: 15 Aug 2019 16:41

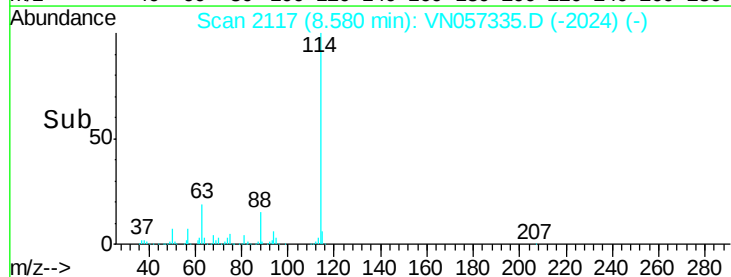
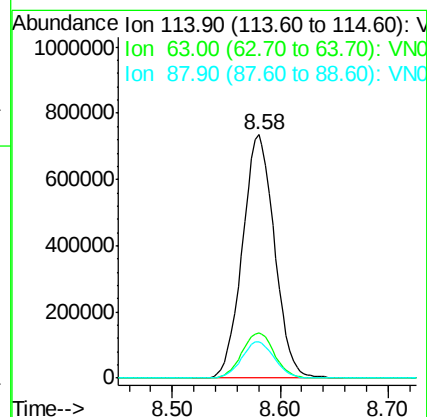
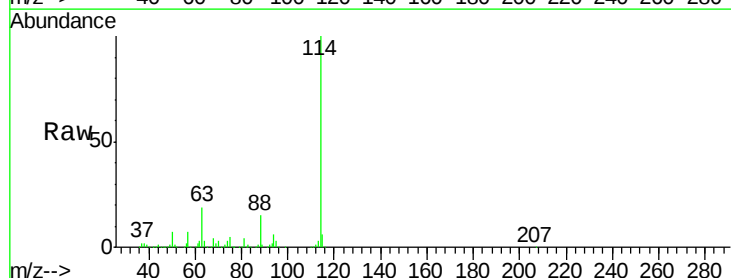
Tgt Ion: 114 Resp: 1524674

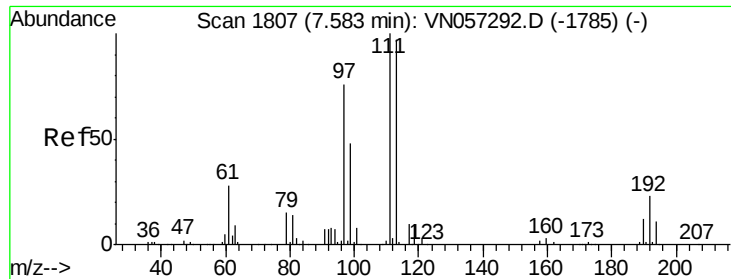
Ion Ratio Lower Upper

114 100

63 18.6 0.0 38.8

88 15.1 0.0 31.4





#35

Dibromofluoromethane

Concen: 45.566 ug/l

RT: 7.58 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN057335.D

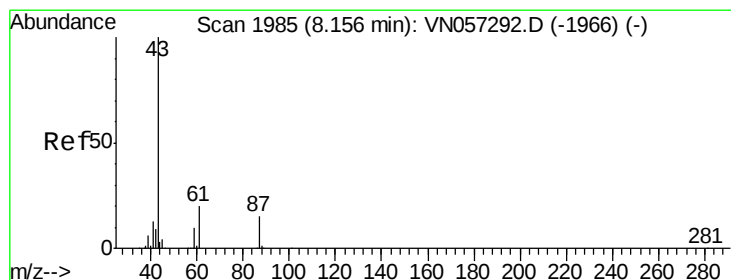
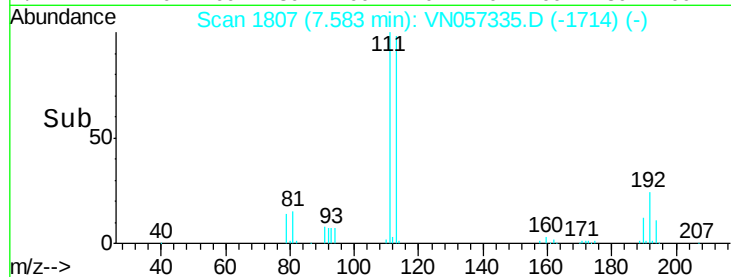
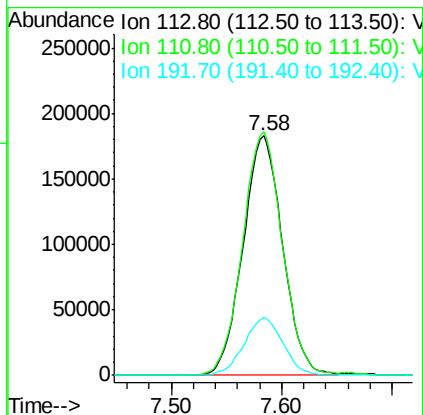
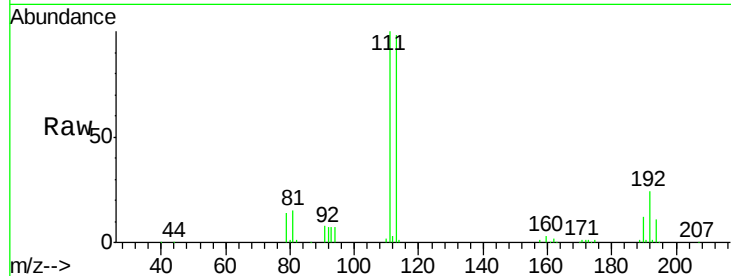
Acq: 15 Aug 2019 16:41

Instrument :  
MSVOA\_N  
ClientSampleId :  
REACTOR-3-G3-(2)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 113   | Resp: | 455416 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 102.2 | 82.1  | 123.1  |
| 192       | 23.8  | 19.3  | 28.9   |

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#43

Isopropyl Acetate

Concen: 8.764 ug/l m

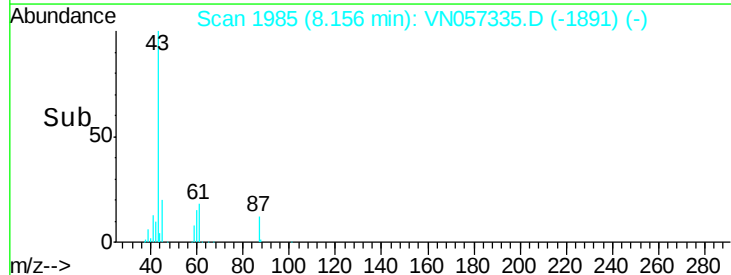
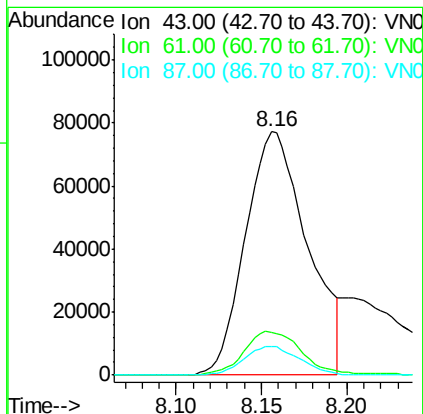
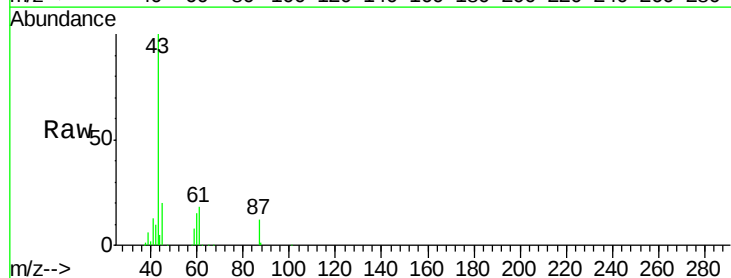
RT: 8.16 min Scan# 1985

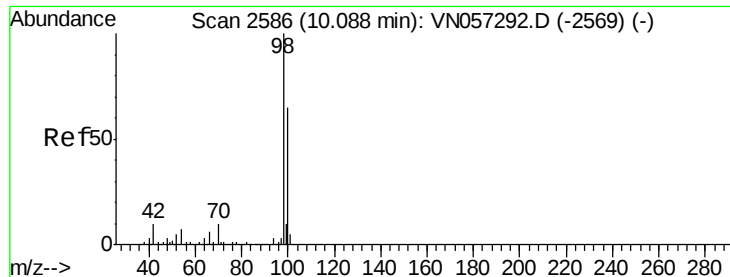
Delta R.T. 0.00 min

Lab File: VN057335.D

Acq: 15 Aug 2019 16:41

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 195481 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 61        | 17.1  | 21.6  | 32.4#  |
| 87        | 10.6  | 11.4  | 17.0#  |





#50

Toluene-d8

Concen: 48.462 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057335.D

Acq: 15 Aug 2019 16:41

Instrument :

MSVOA\_N

ClientSampleId :

REACTOR-3-G3-(2)

Tot Ion: 98 Resp: 1771550

Ion Ratio Lower Upper

98 100

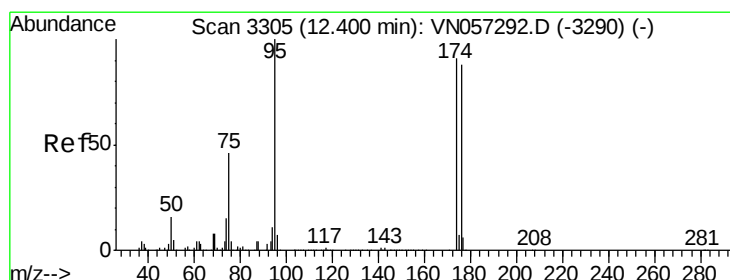
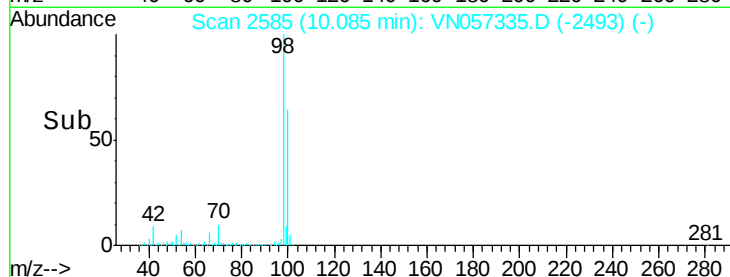
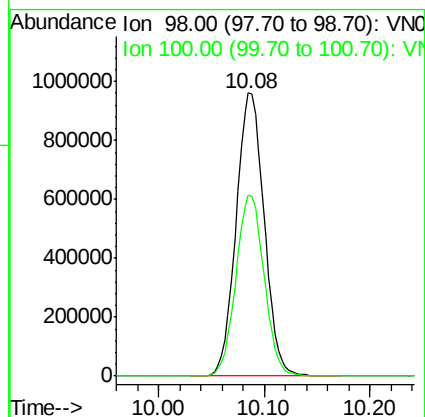
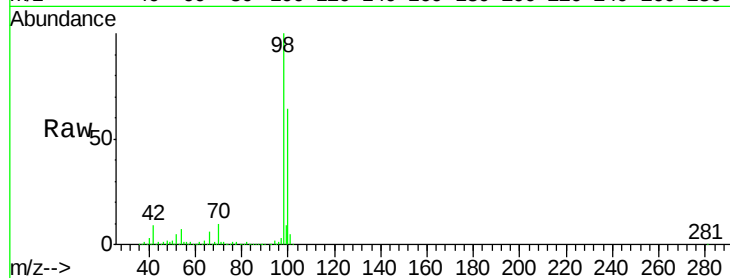
100 64.2 51.9 77.9

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#62

4-Bromofluorobenzene

Concen: 36.295 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN057335.D

Acq: 15 Aug 2019 16:41

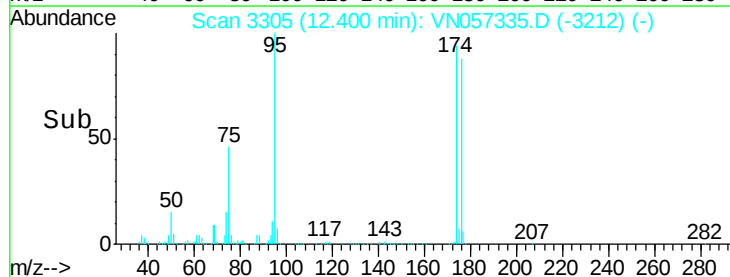
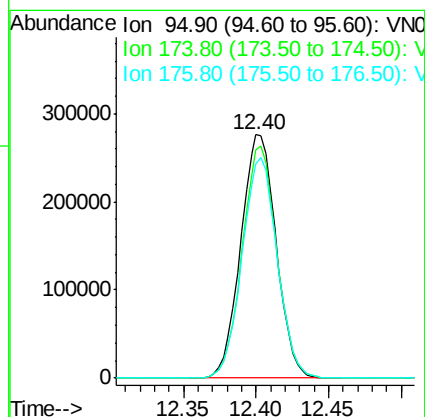
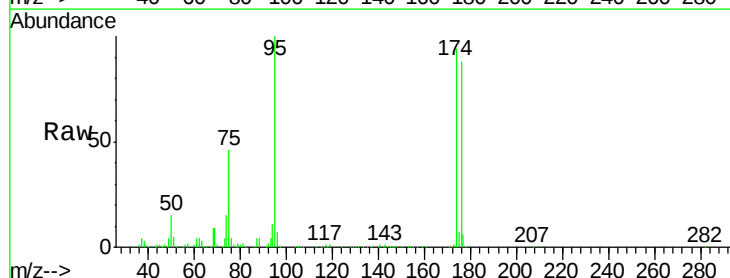
Tgt Ion: 95 Resp: 468878

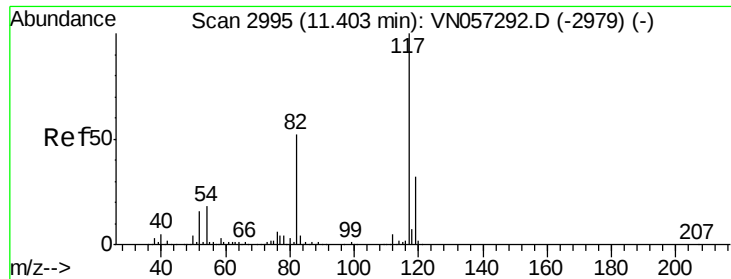
Ion Ratio Lower Upper

95 100

174 93.1 0.0 185.0

176 89.9 0.0 181.0





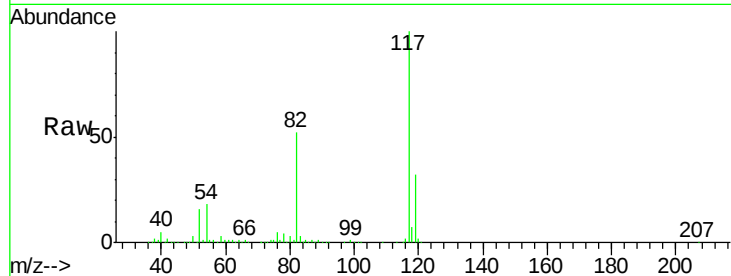
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2995  
Delta R.T. 0.00 min  
Lab File: VN057335.D  
Acq: 15 Aug 2019 16:41

Instrument :  
MSVOA\_N  
ClientSampleId :  
REACTOR-3-G3-(2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 51.9  | 41.2  | 61.8  |
| 119     | 31.9  | 25.8  | 38.8  |

Manual Integrations  
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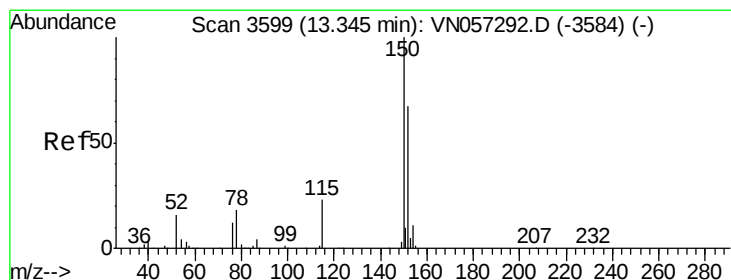
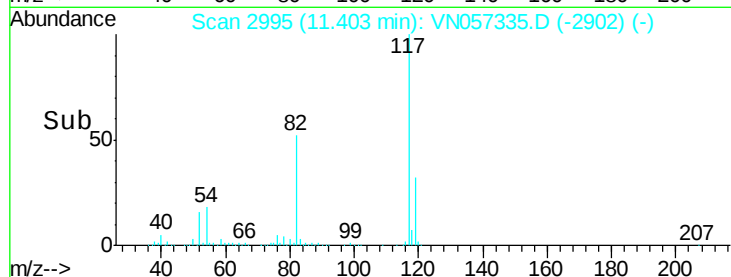
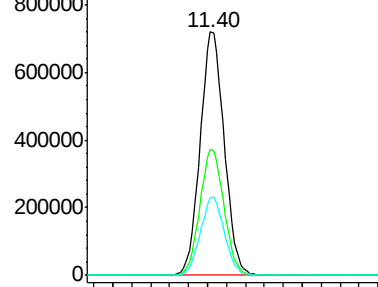


Abundance

Ion 116.90 (116.60 to 117.60): V

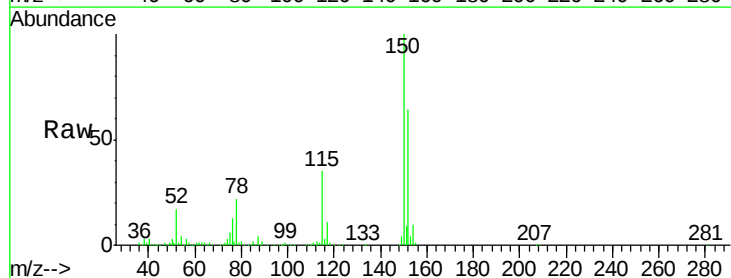
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. 0.00 min  
Lab File: VN057335.D  
Acq: 15 Aug 2019 16:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.5  | 27.3  | 81.9  |
| 150     | 158.0 | 0.0   | 344.4 |



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

