

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\  
 Data File : VN056087.D  
 Acq On : 7 Jun 2019 9:45  
 Operator : JC/SP  
 Sample : K3232-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SPDES-1

Quant Time: Jun 07 10:07:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Jun 06 04:02:53 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.20  | 128  | 50243    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.58  | 114  | 263945   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 209976   | 30.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4   | 8.02   | 65    | 95843    | 30.72    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 50 - 169 | Recovery | =    | 102.40% |
| 60) 4-Bromofluorobenzene    | 12.40  | 95    | 69108    | 22.20    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 56 - 143 | Recovery | =    | 74.00%  |
| 63) Toluene-d8              | 10.09  | 98    | 308649   | 32.40    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 66 - 137 | Recovery | =    | 108.00% |

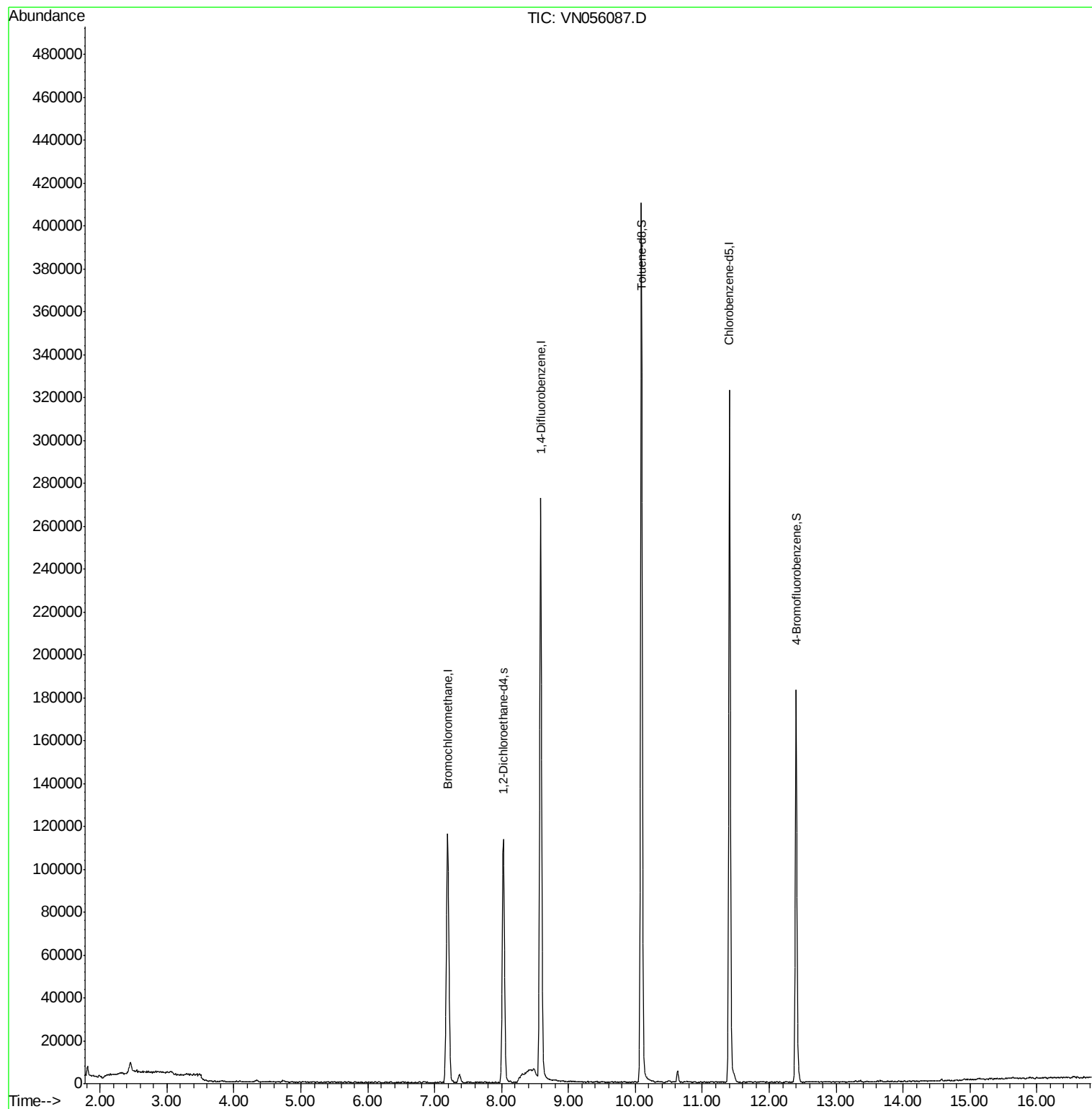
| Target Compounds | Ovalue |
|------------------|--------|
| -----            |        |

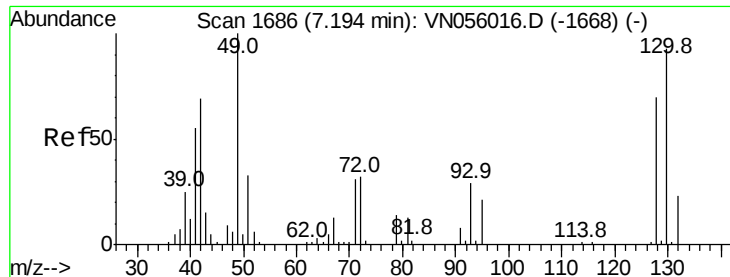
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jun 06 04:02:53 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN056087.D

Acq: 7 Jun 2019 9:45

Instrument :

MSVOA\_N

ClientSampleId :

SPDES-1

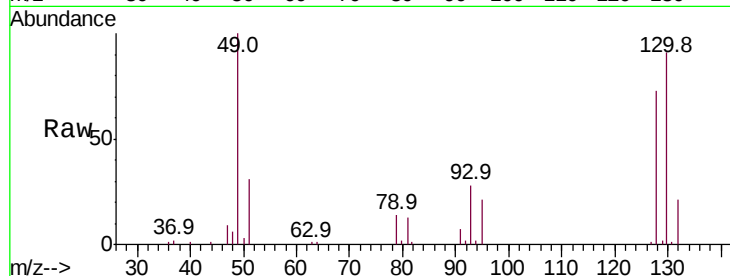
Tot Ion:128 Resp: 50243

Ion Ratio Lower Upper

128 100

49 142.8 0.0 355.8

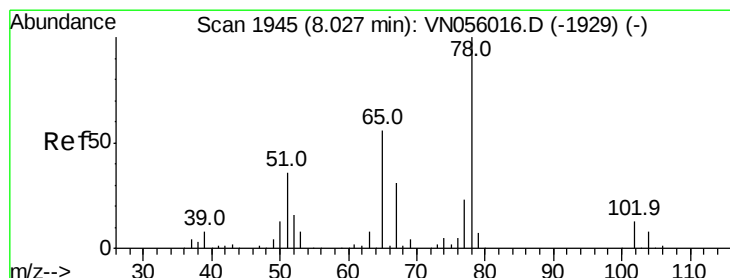
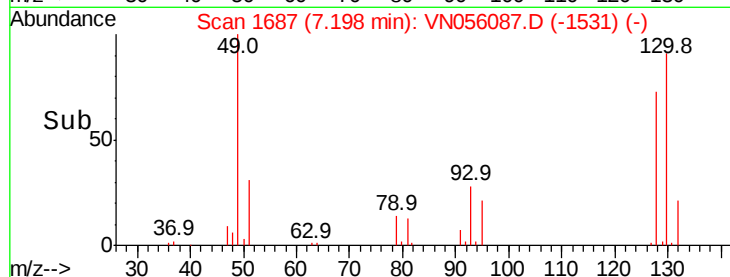
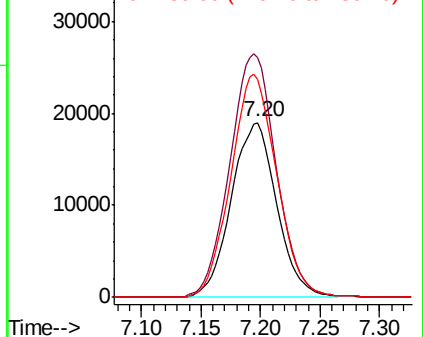
130 129.5 0.0 326.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#27

1,2-Dichloroethane-d4

Concen: 30.718 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN056087.D

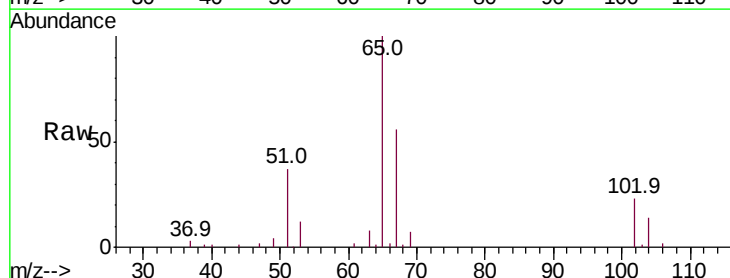
Acq: 7 Jun 2019 9:45

Tgt Ion: 65 Resp: 95843

Ion Ratio Lower Upper

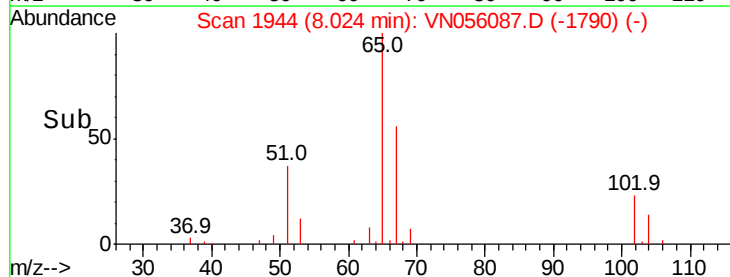
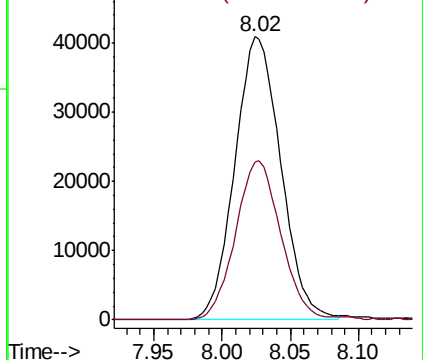
65 100

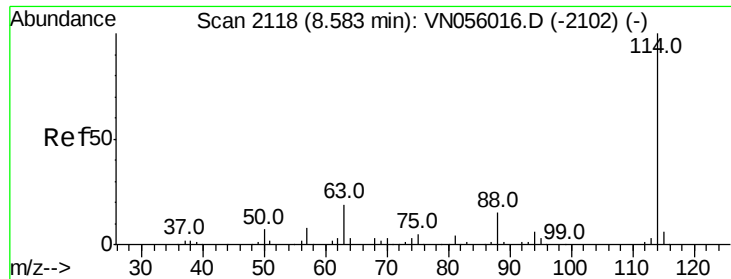
67 55.5 43.4 65.2



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

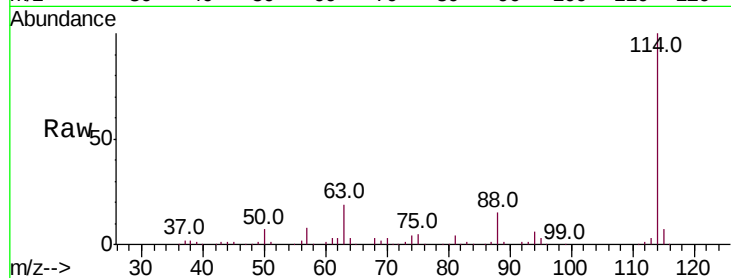




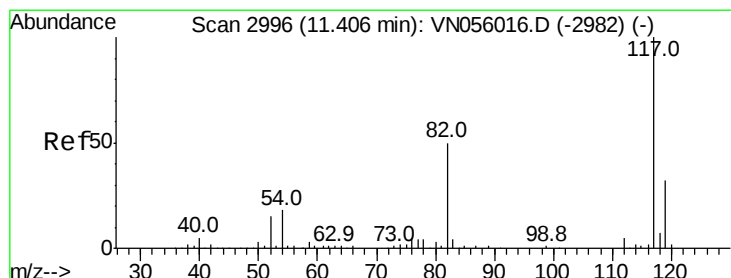
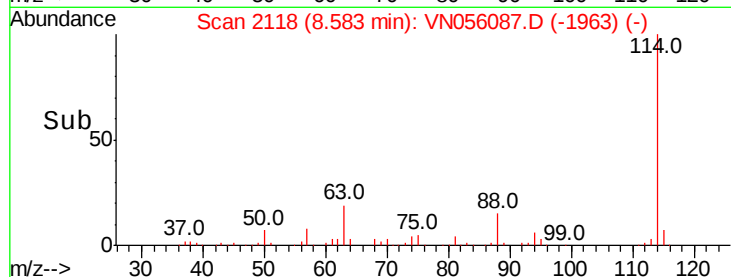
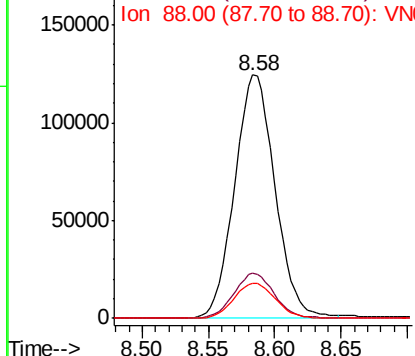
#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 8.58 min Scan# 2118  
 Delta R.T. -0.00 min  
 Lab File: VN056087.D  
 Acq: 7 Jun 2019 9:45

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 SPDES-1

Tot Ion:114 Resp: 263945  
 Ion Ratio Lower Upper  
 114 100  
 63 18.7 14.7 22.1  
 88 14.9 11.9 17.9

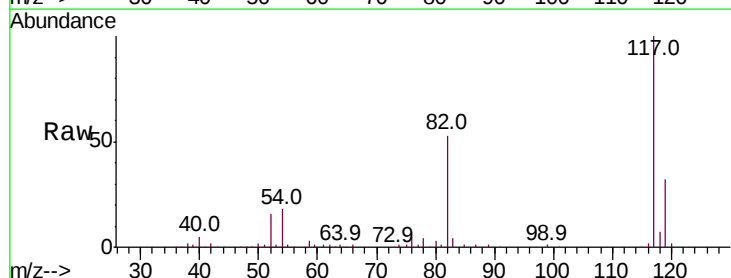


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 88.00 (87.70 to 88.70): VN

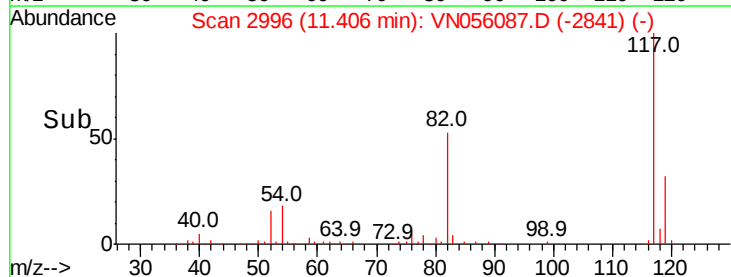
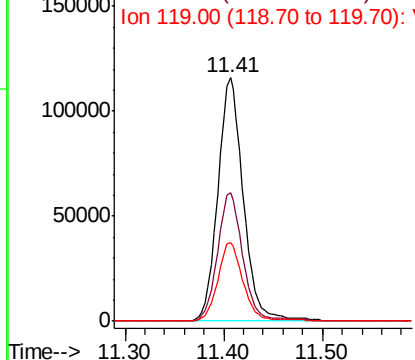


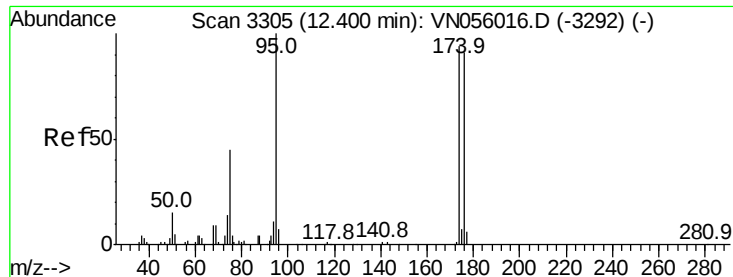
#57  
 Chlorobenzene-d5  
 Concen: 30.000 ug/l  
 RT: 11.41 min Scan# 2996  
 Delta R.T. -0.00 min  
 Lab File: VN056087.D  
 Acq: 7 Jun 2019 9:45

Tgt Ion:117 Resp: 209976  
 Ion Ratio Lower Upper  
 117 100  
 82 52.6 41.2 61.8  
 119 31.4 26.2 39.2



Abundance Ion 117.00 (116.70 to 117.70): V  
 Ion 82.00 (81.70 to 82.70): VN  
 Ion 119.00 (118.70 to 119.70): V





#60

4-Bromofluorobenzene

Concen: 22.205 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056087.D

Acq: 7 Jun 2019 9:45

Instrument :

MSVOA\_N

ClientSampleId :

SPDES-1

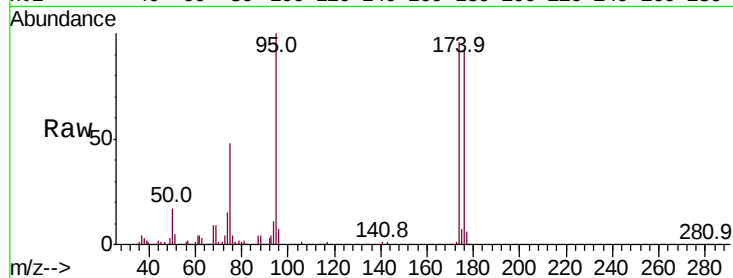
Tot Ion: 95 Resp: 69108

Ion Ratio Lower Upper

95 100

174 95.6 75.4 113.0

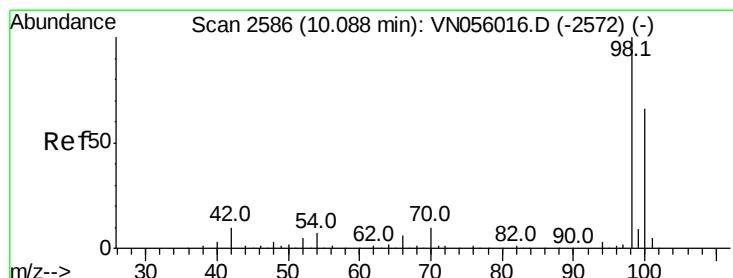
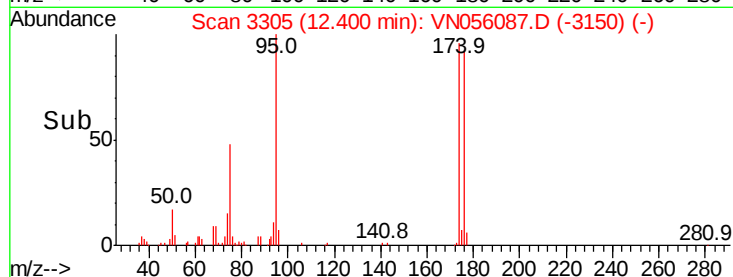
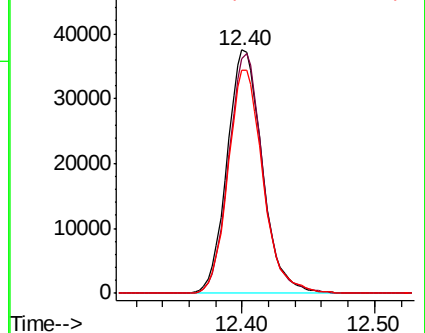
176 91.1 73.9 110.9



Abundance Ion 95.00 (94.70 to 95.70): VN056016.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN056016.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN056016.D (-3292) (-)



#63

Toluene-d8

Concen: 32.403 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056087.D

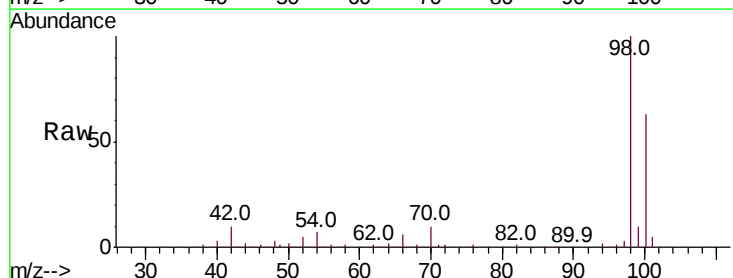
Acq: 7 Jun 2019 9:45

Tgt Ion: 98 Resp: 308649

Ion Ratio Lower Upper

98 100

100 63.4 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VN056016.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN056016.D (-2572) (-)

