

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\  
 Data File : VN055133.D  
 Acq On : 19 Apr 2019 11:24  
 Operator : JC/SP  
 Sample : K2479-07  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB

Quant Time: Apr 22 09:59:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Apr 12 07:55:25 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.20  | 128  | 67898    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.59  | 114  | 351471   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 288401   | 30.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4   | 8.03   | 65    | 159916   | 30.90    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 50 - 169 | Recovery | =    | 103.00% |
| 60) 4-Bromofluorobenzene    | 12.40  | 95    | 99735    | 22.21    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 56 - 143 | Recovery | =    | 74.03%  |
| 63) Toluene-d8              | 10.09  | 98    | 431377   | 31.46    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 66 - 137 | Recovery | =    | 104.87% |

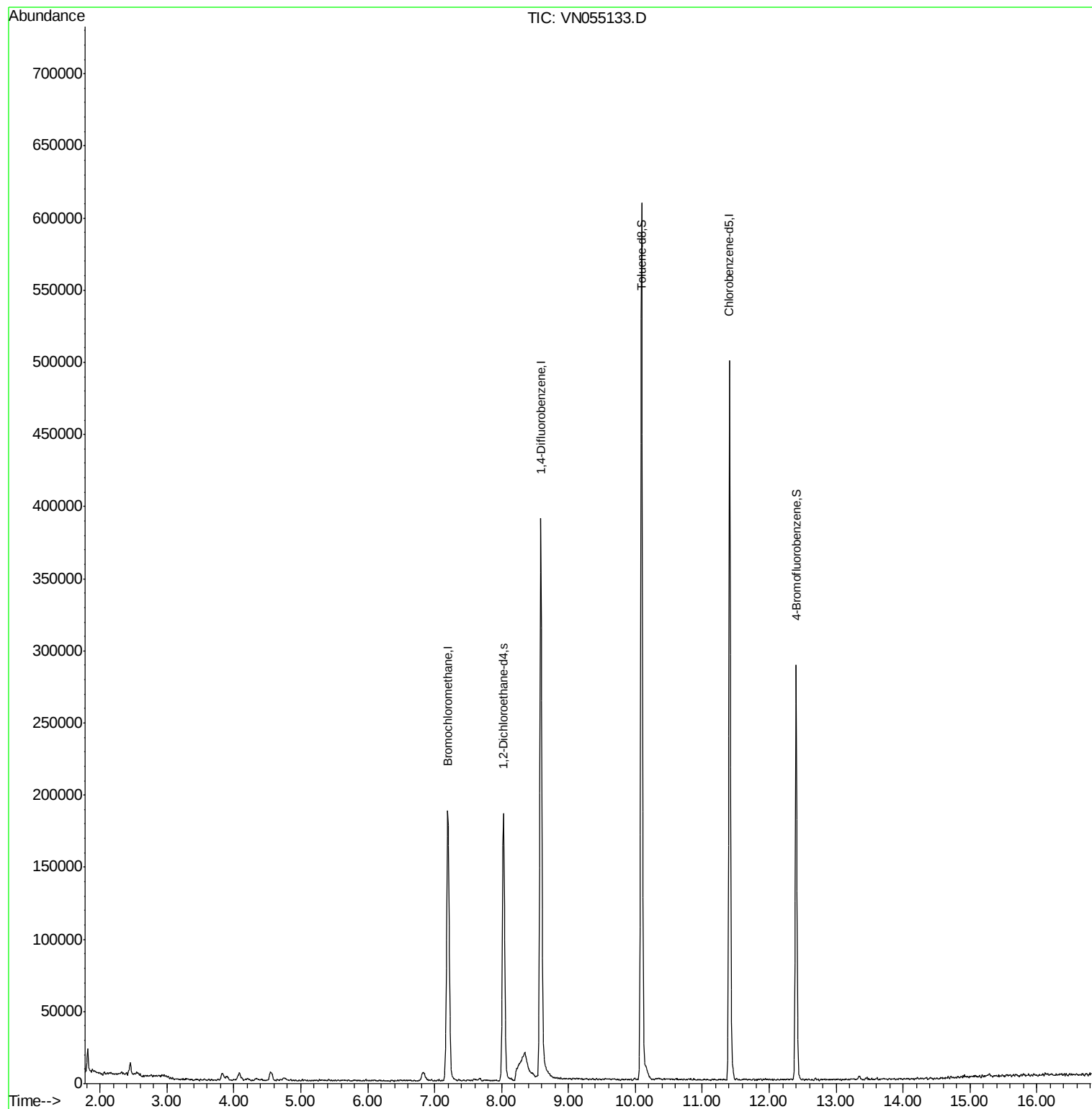
| Target Compounds | Ovalue |
|------------------|--------|
| -----            |        |

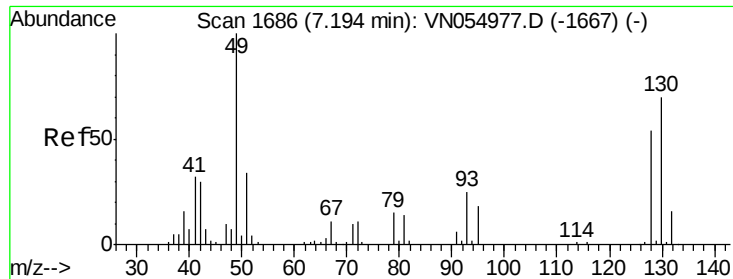
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN041919\  
Data File : VN055133.D  
Acq On : 19 Apr 2019 11:24  
Operator : JC/SP  
Sample : K2479-07  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB

Quant Time: Apr 22 09:59:22 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Apr 12 07:55:25 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: VN055133.D

Acq: 19 Apr 2019 11:24

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB

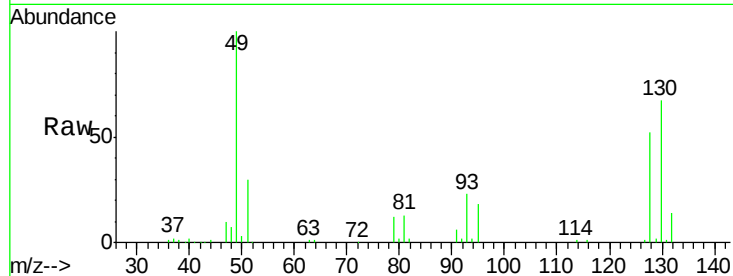
Tot Ion:128 Resp: 67898

Ion Ratio Lower Upper

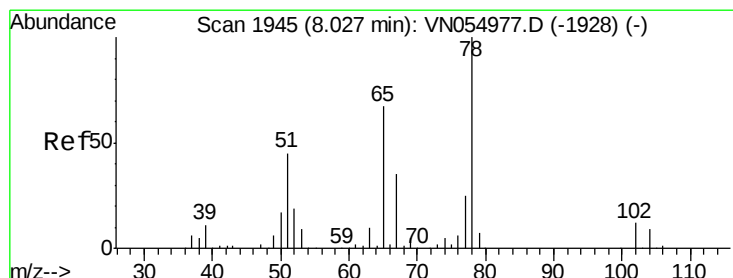
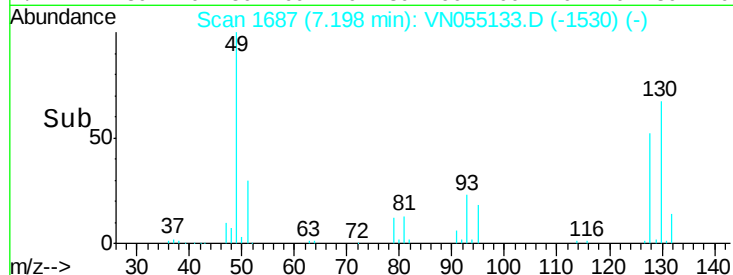
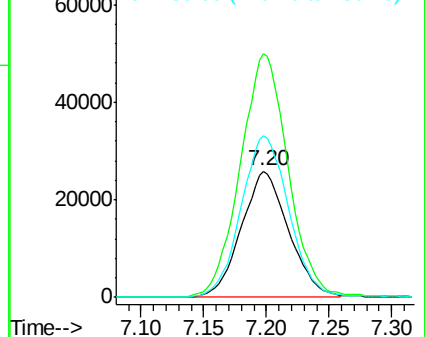
128 100

49 195.6 0.0 480.3

130 129.5 0.0 322.2



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 49.00 (48.70 to 49.70): VNO  
Ion 130.00 (129.70 to 130.70): V



#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN055133.D

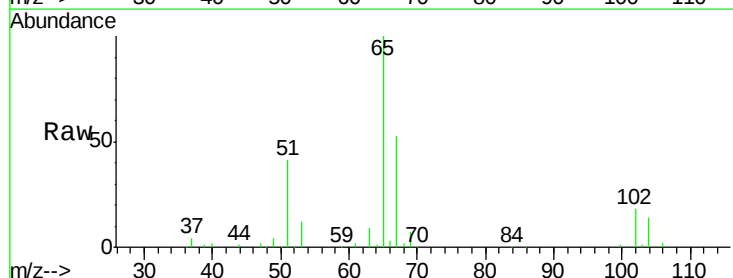
Acq: 19 Apr 2019 11:24

Tgt Ion: 65 Resp: 159916

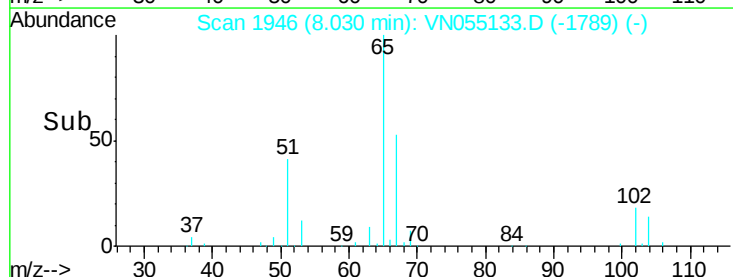
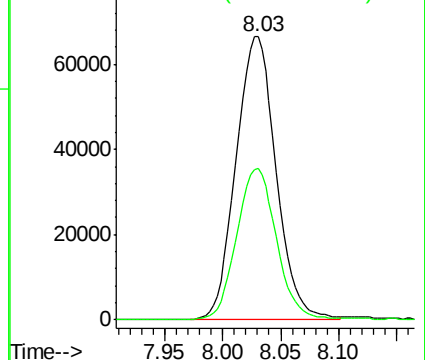
Ion Ratio Lower Upper

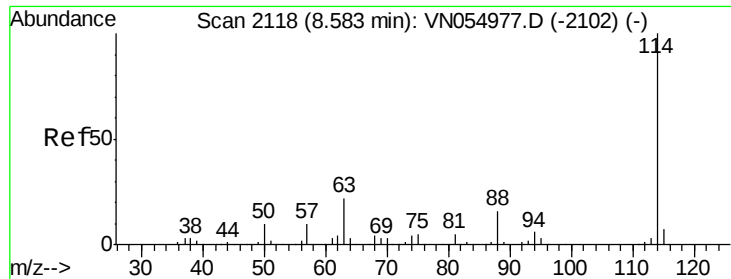
65 100

67 53.0 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VNO  
Ion 67.00 (66.70 to 67.70): VNO

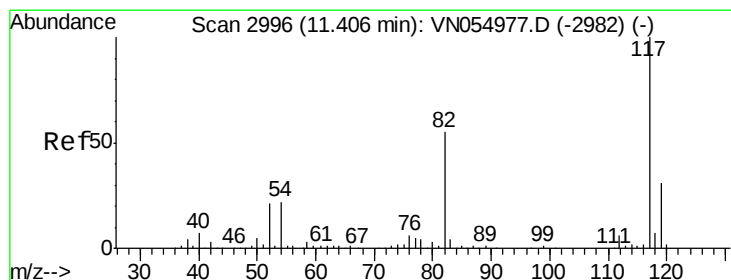
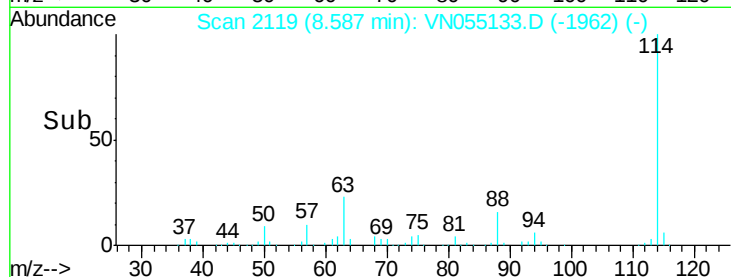
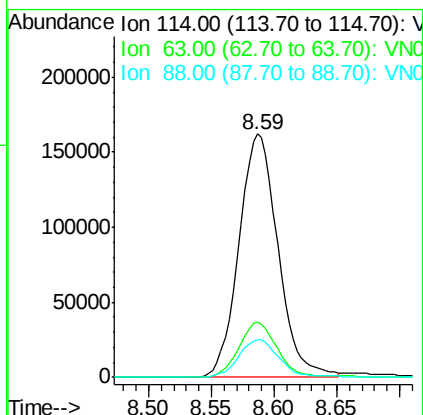
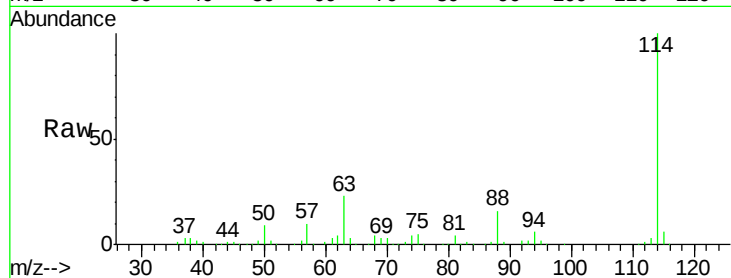




#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN055133.D  
 Acq: 19 Apr 2019 11:24

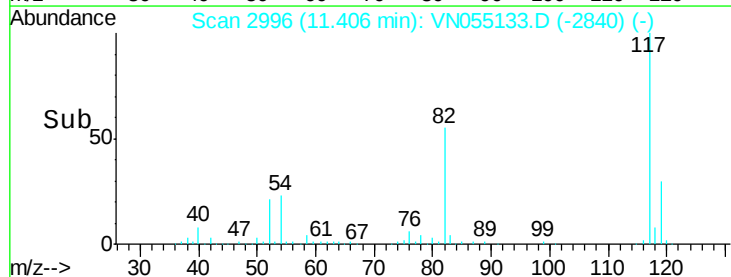
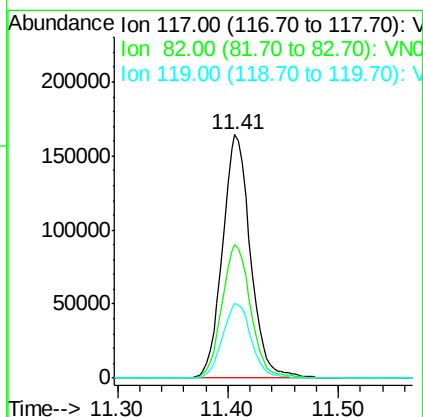
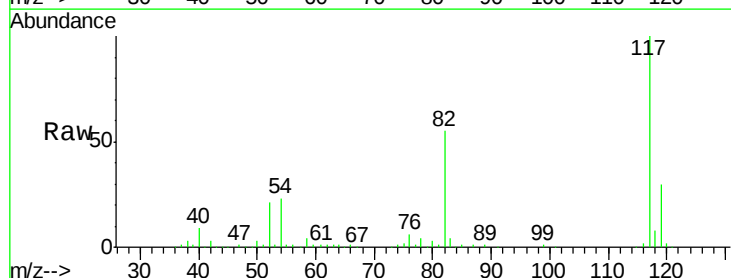
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB

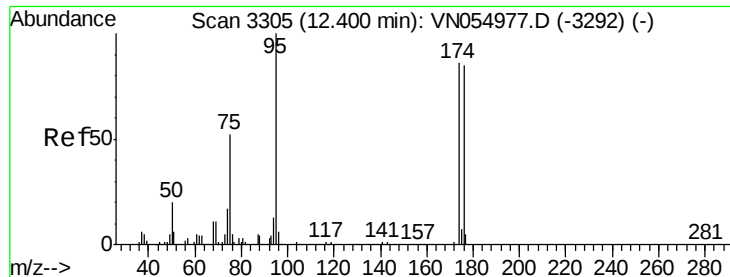
Tot Ion:114 Resp: 351471  
 Ion Ratio Lower Upper  
 114 100  
 63 22.1 17.0 25.4  
 88 16.0 12.3 18.5



#57  
 Chlorobenzene-d5  
 Concen: 30.000 ug/l  
 RT: 11.41 min Scan# 2996  
 Delta R.T. 0.00 min  
 Lab File: VN055133.D  
 Acq: 19 Apr 2019 11:24

Tgt Ion:117 Resp: 288401  
 Ion Ratio Lower Upper  
 117 100  
 82 56.5 45.2 67.8  
 119 31.6 25.4 38.2





#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN055133.D

Acq: 19 Apr 2019 11:24

Instrument :

MSVOA\_N

ClientSampleId :

TB

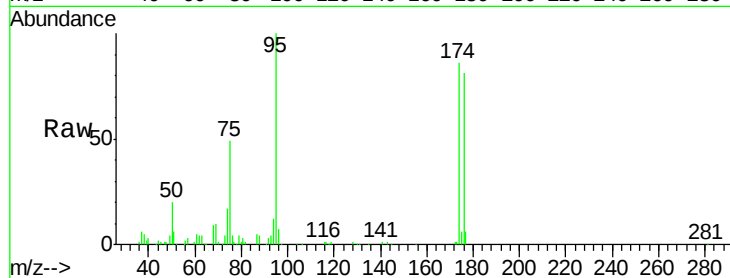
Tot Ion: 95 Resp: 99735

Ion Ratio Lower Upper

95 100

174 86.7 69.4 104.2

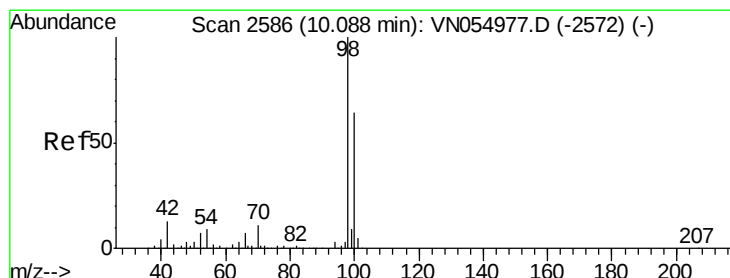
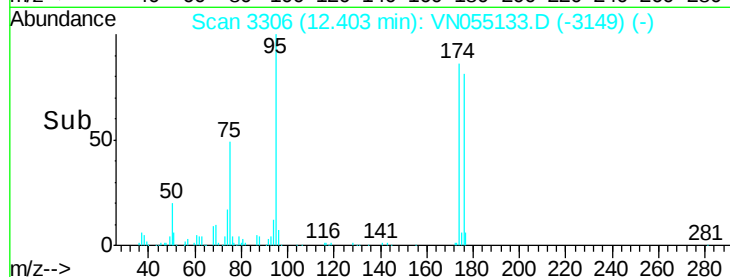
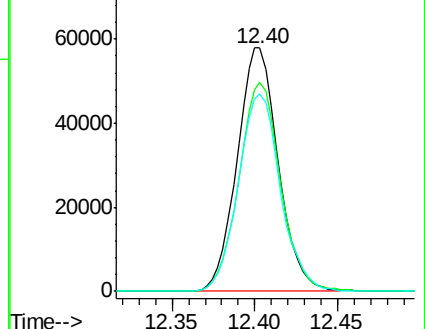
176 83.0 67.4 101.2



Abundance Ion 95.00 (94.70 to 95.70): VN054977.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN054977.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN054977.D (-3292) (-)



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055133.D

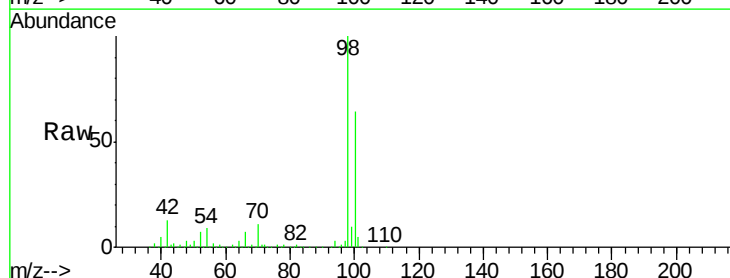
Acq: 19 Apr 2019 11:24

Tgt Ion: 98 Resp: 431377

Ion Ratio Lower Upper

98 100

100 63.5 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN054977.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN054977.D (-2572) (-)

