

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102319\  
 Data File : VN058909.D  
 Acq On : 22 Oct 2019 15:24  
 Operator : JC/SP  
 Sample : VN1023WBL02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1023WBL02

Quant Time: Oct 23 02:04:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Oct 11 04:26:47 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 0.00  | 128  | 0        | 0.00  | ug/l  | -7.18    |
| 28) 1,4-Difluorobenzene | 8.57  | 114  | 550448   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 487694   | 30.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4   | 8.01   | 65    | 269708   | 0.00     | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 50 - 169 | Recovery | =    | 0.00%#  |
| 60) 4-Bromofluorobenzene    | 12.40  | 95    | 221318   | 25.94    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 56 - 143 | Recovery | =    | 86.47%  |
| 63) Toluene-d8              | 10.08  | 98    | 709512   | 30.81    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 66 - 137 | Recovery | =    | 102.70% |

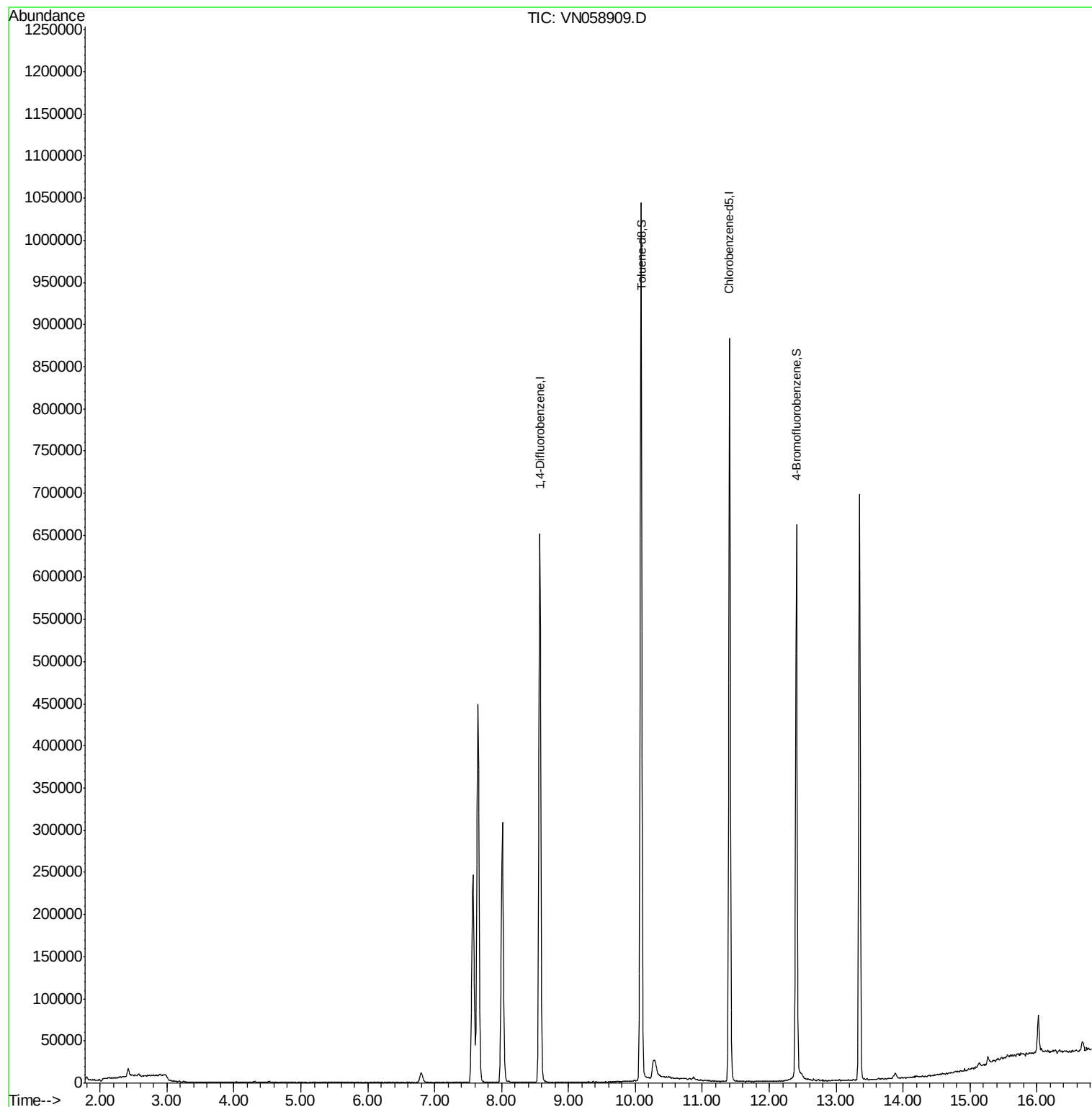
| Target Compounds | Ovalue |
|------------------|--------|
| -----            |        |

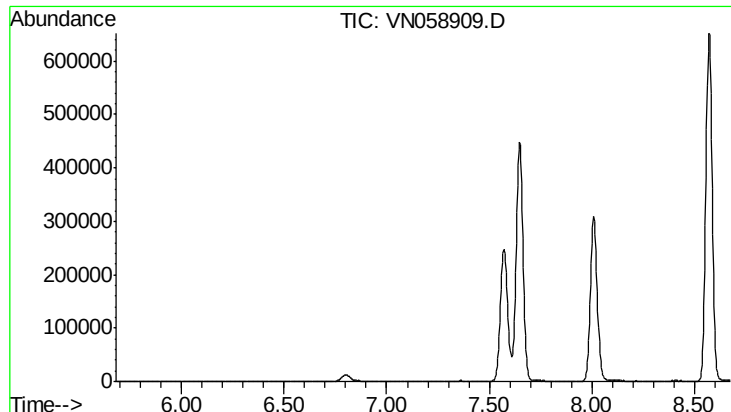
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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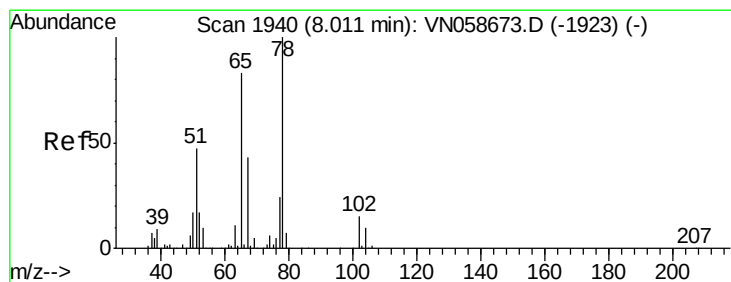
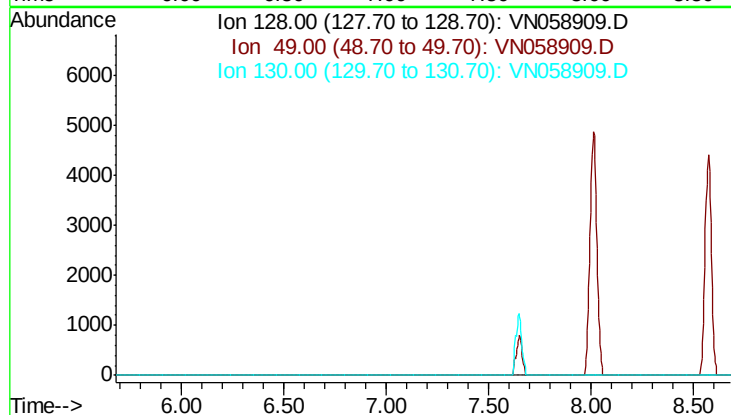




#1  
 Bromochloromethane  
 Concen: 0.000 ug/l  
 Expected RT: 7.18 min  
 Lab File: VN058909.D  
 Acq: 22 Oct 2019 15:24

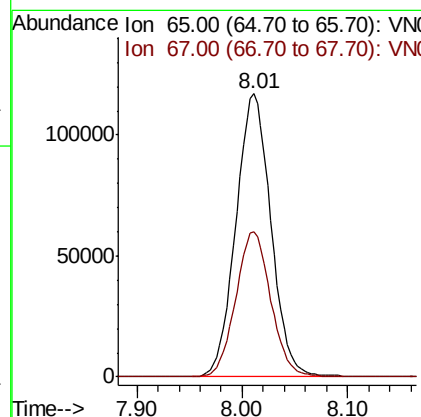
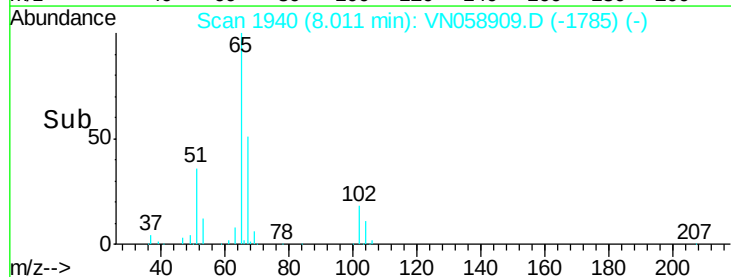
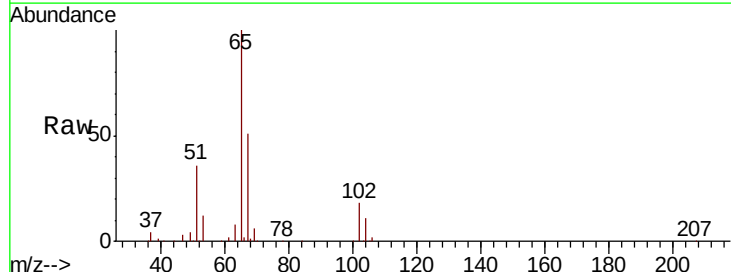
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1023WBL02

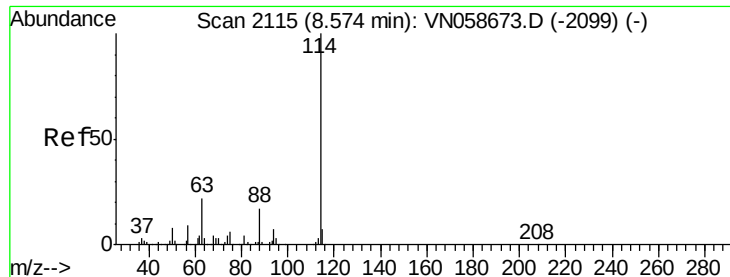
Tot Ion: 128  
 Sig Exp Ratio  
 128 100  
 49 181.4  
 130 125.7



#27  
 1,2-Dichloroethane-d4  
 Concen: 0.000 ug/l  
 RT: 8.01 min Scan# 1940  
 Delta R.T. -0.00 min  
 Lab File: VN058909.D  
 Acq: 22 Oct 2019 15:24

Tgt Ion: 65 Resp: 269708  
 Ion Ratio Lower Upper  
 65 100  
 67 51.4 41.5 62.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058909.D

Acq: 22 Oct 2019 15:24

Instrument :

MSVOA\_N

ClientSampleId :

VN1023WBL02

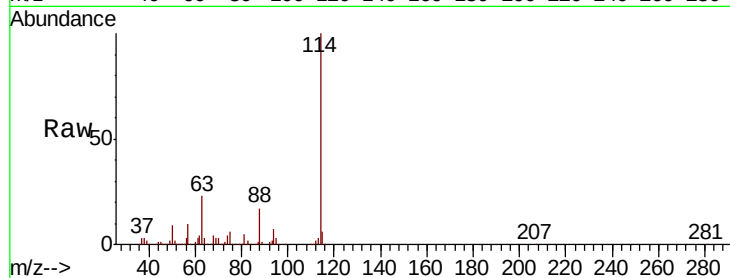
Tot Ion:114 Resp: 550448

Ion Ratio Lower Upper

114 100

63 23.0 18.1 27.1

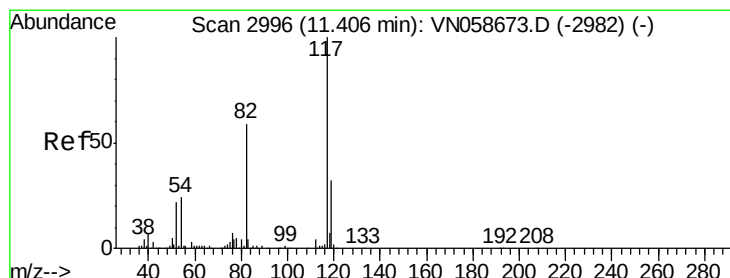
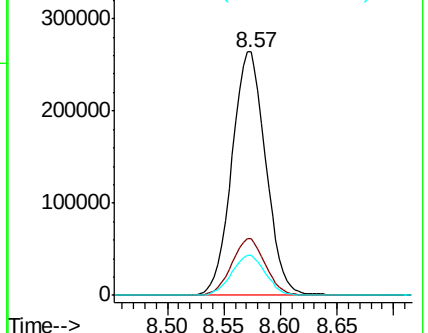
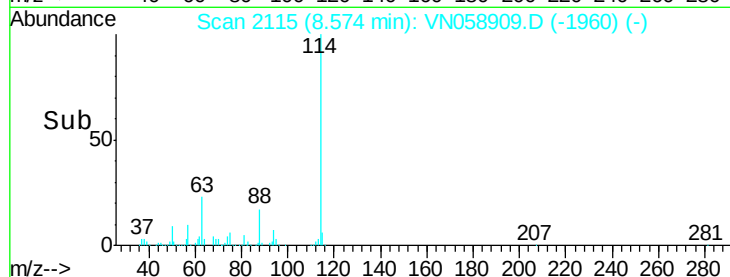
88 16.5 13.0 19.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058909.D

Acq: 22 Oct 2019 15:24

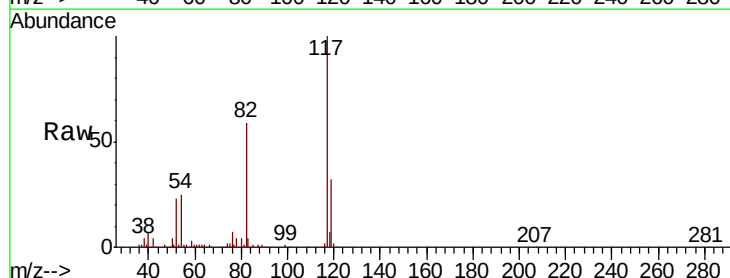
Tgt Ion:117 Resp: 487694

Ion Ratio Lower Upper

117 100

82 58.9 46.9 70.3

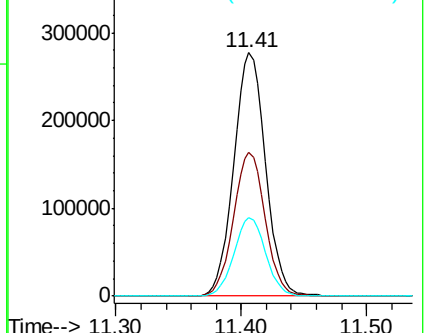
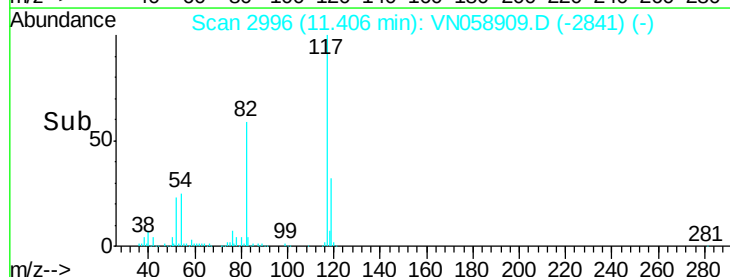
119 32.2 25.8 38.6

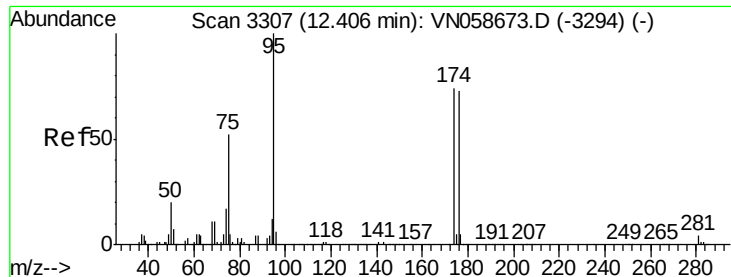


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 119.00 (118.70 to 119.70): V





#60

4-Bromofluorobenzene

Concen: 25.943 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN058909.D

Acq: 22 Oct 2019 15:24

Instrument :

MSVOA\_N

ClientSampleId :

VN1023WBL02

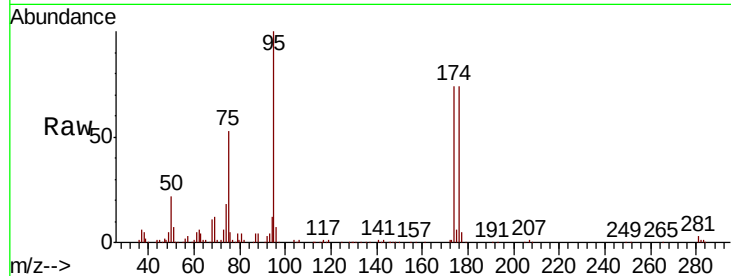
Tot Ion: 95 Resp: 221318

Ion Ratio Lower Upper

95 100

174 75.8 59.9 89.9

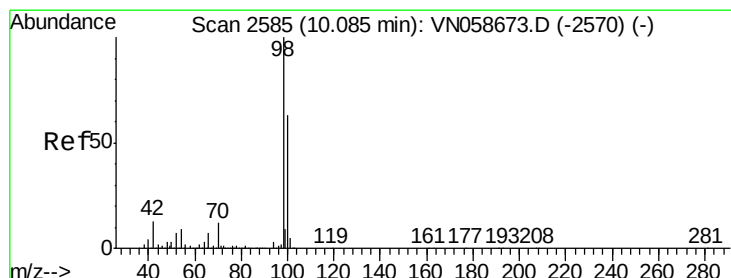
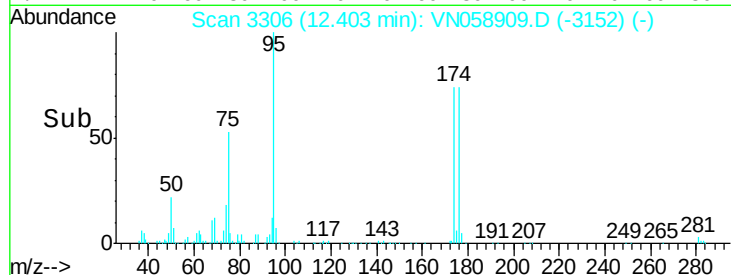
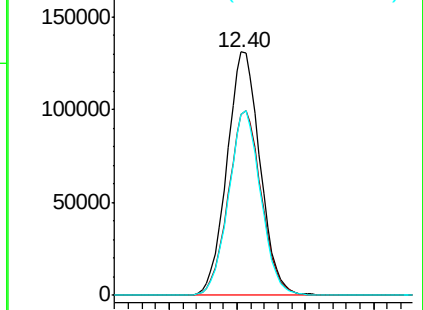
176 73.5 58.3 87.5



Abundance Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Toluene-d8

Concen: 30.812 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058909.D

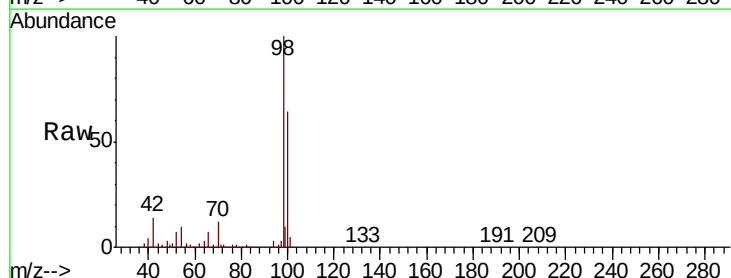
Acq: 22 Oct 2019 15:24

Tgt Ion: 98 Resp: 709512

Ion Ratio Lower Upper

98 100

100 63.4 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): V

