

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN090919\  
 Data File : VN057795.D  
 Acq On : 9 Sep 2019 12:30  
 Operator : JC/SP  
 Sample : K4723-01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FRAC-A32780T

Quant Time: Sep 09 18:31:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N090919W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Sep 09 12:14:07 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.18  | 128  | 59482    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.58  | 114  | 342136   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 289467   | 30.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4   | 8.01   | 65    | 158329   | 30.09    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 50 - 169 | Recovery | =    | 100.30% |
| 60) 4-Bromofluorobenzene    | 12.40  | 95    | 133288   | 26.91    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 56 - 143 | Recovery | =    | 89.70%  |
| 63) Toluene-d8              | 10.09  | 98    | 431223   | 31.04    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 66 - 137 | Recovery | =    | 103.47% |

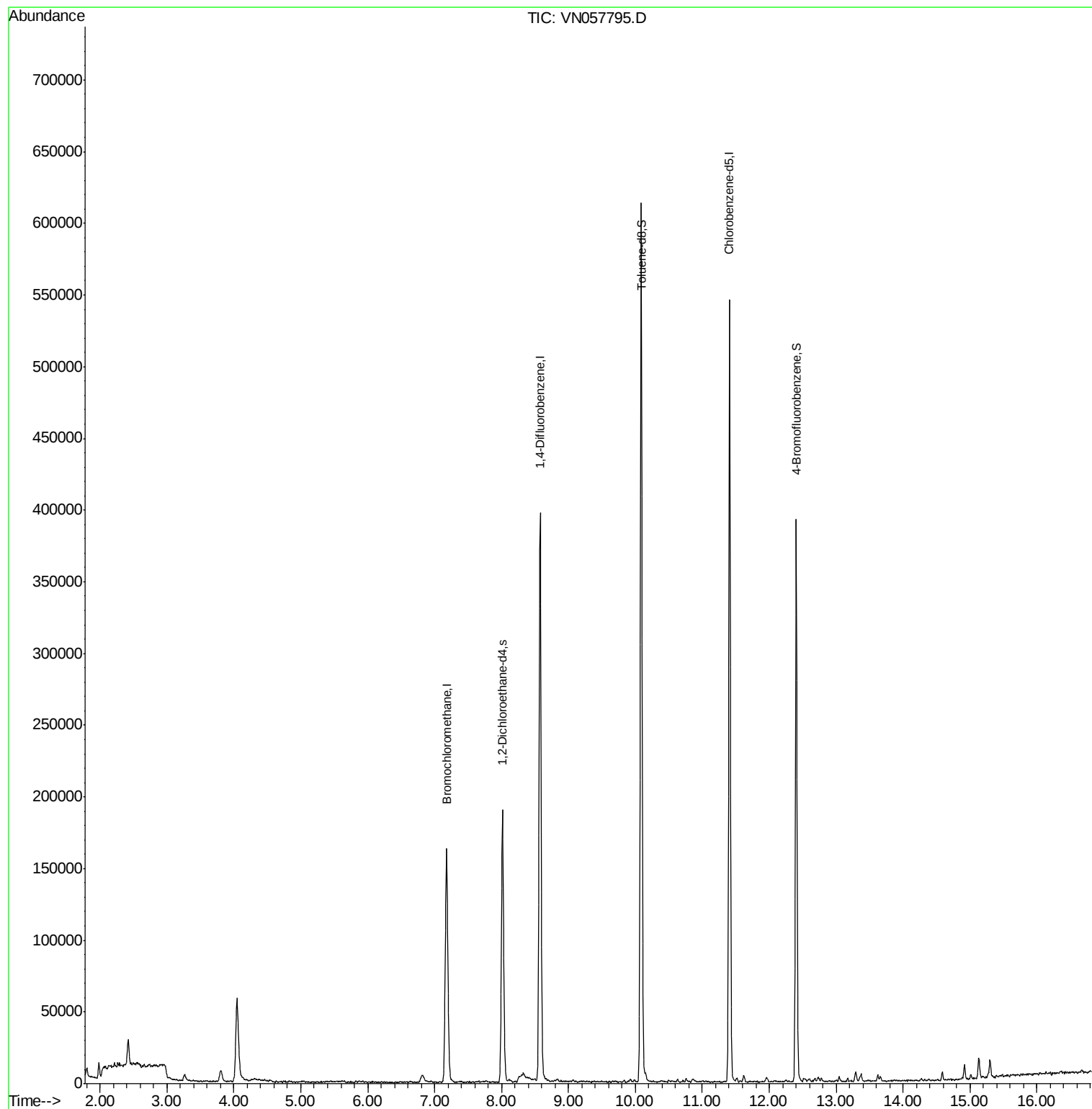
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

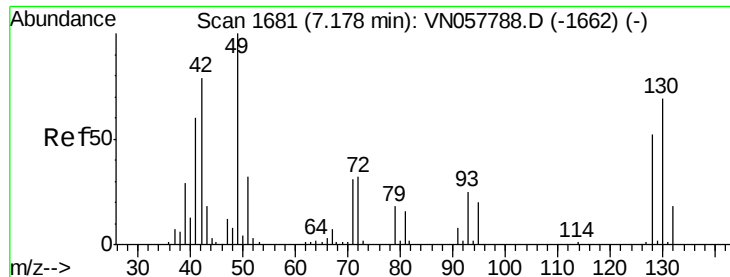
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Mon Sep 09 12:14:07 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1682

Delta R.T. 0.00 min

Lab File: VN057795.D

Acq: 9 Sep 2019 12:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
FRAC-A32780T

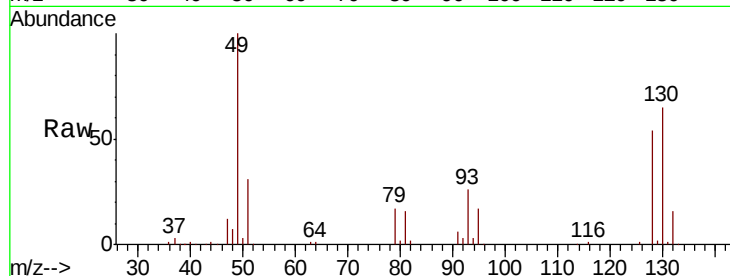
Tgt Ion:128 Resp: 59482

Ion Ratio Lower Upper

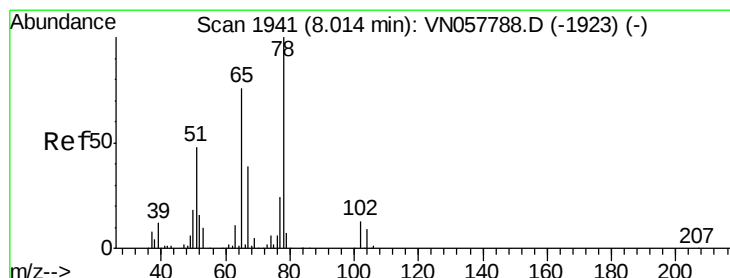
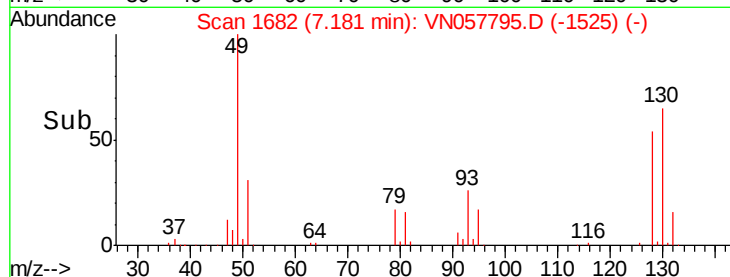
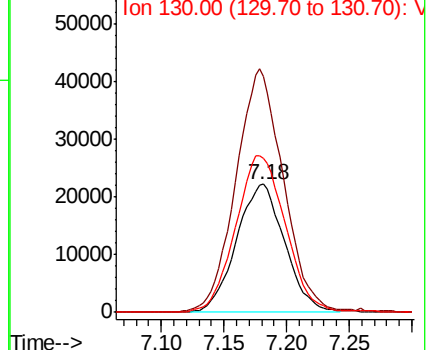
128 100

49 186.2 0.0 486.5

130 125.8 0.0 324.5



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



#27

1,2-Dichloroethane-d4

Concen: 30.092 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057795.D

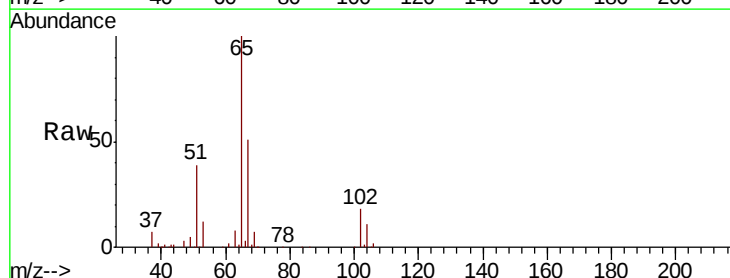
Acq: 9 Sep 2019 12:30

Tgt Ion: 65 Resp: 158329

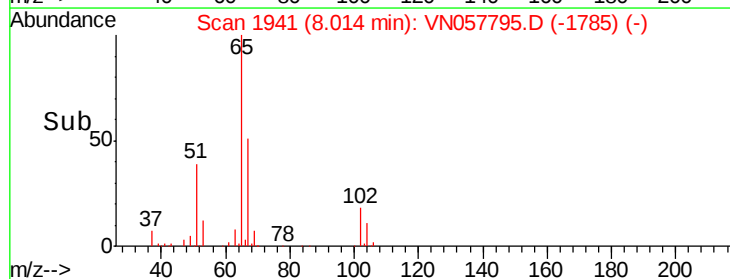
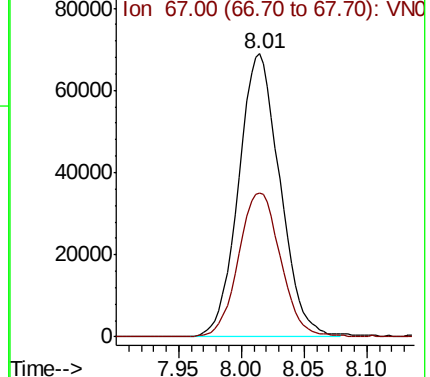
Ion Ratio Lower Upper

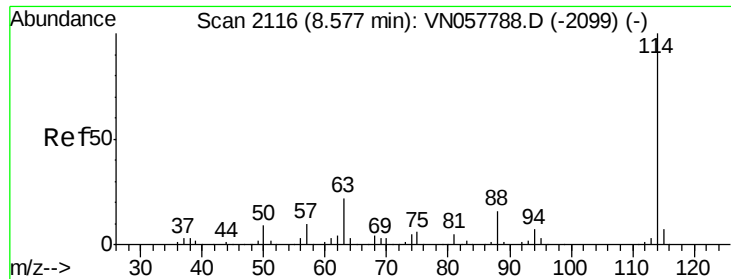
65 100

67 51.8 40.9 61.3



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

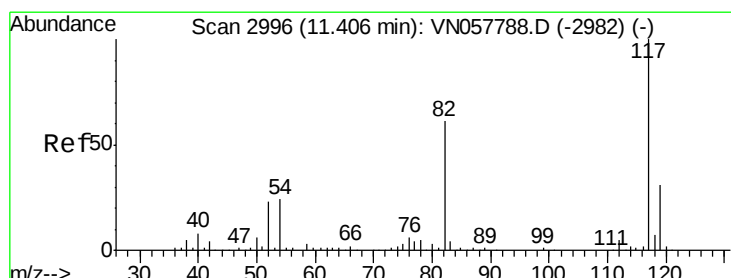
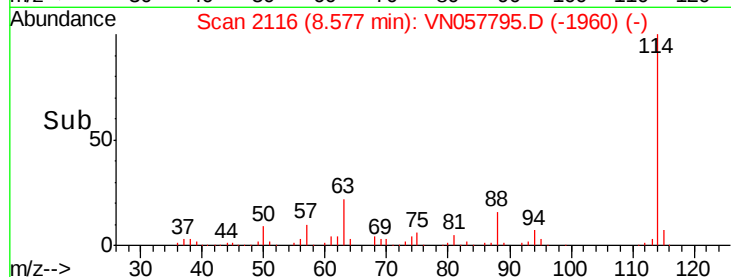
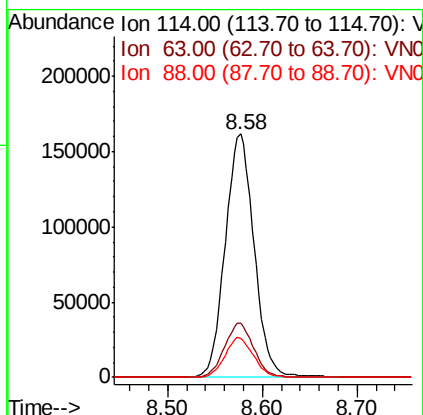
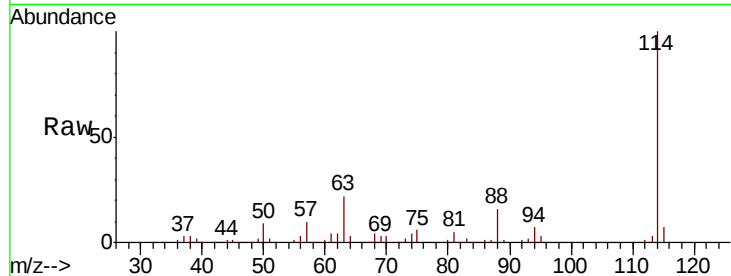




#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 8.58 min Scan# 2116  
 Delta R.T. 0.00 min  
 Lab File: VN057795.D  
 Acq: 9 Sep 2019 12:30

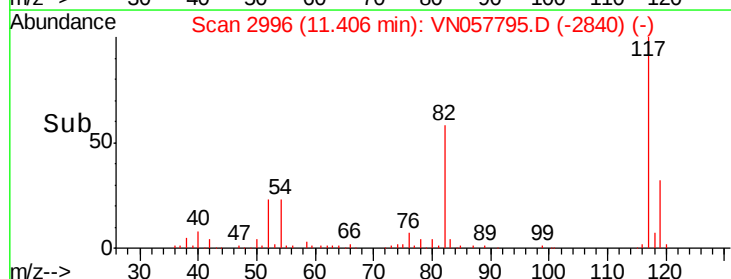
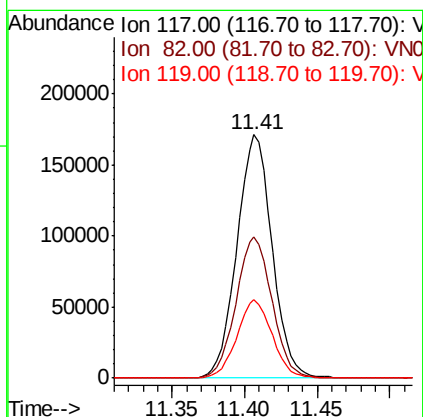
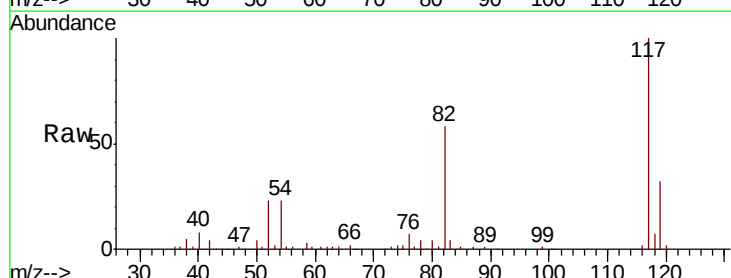
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FRAC-A32780T

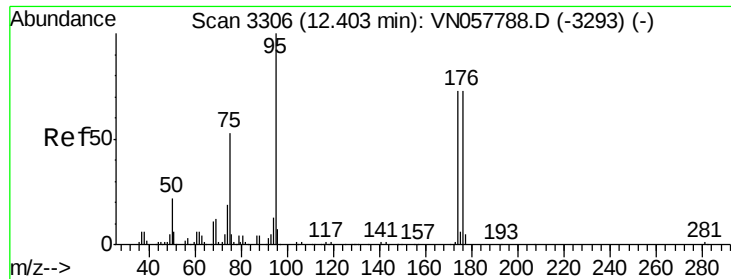
Tgt Ion:114 Resp: 342136  
 Ion Ratio Lower Upper  
 114 100  
 63 22.4 18.0 27.0  
 88 16.1 12.6 19.0



#57  
 Chlorobenzene-d5  
 Concen: 30.000 ug/l  
 RT: 11.41 min Scan# 2996  
 Delta R.T. 0.00 min  
 Lab File: VN057795.D  
 Acq: 9 Sep 2019 12:30

Tgt Ion:117 Resp: 289467  
 Ion Ratio Lower Upper  
 117 100  
 82 59.4 47.6 71.4  
 119 32.1 25.4 38.2





#60

4-Bromofluorobenzene

Concen: 26.909 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057795.D

Acq: 9 Sep 2019 12:30

Instrument :

MSVOA\_N

ClientSampled :

FRAC-A32780T

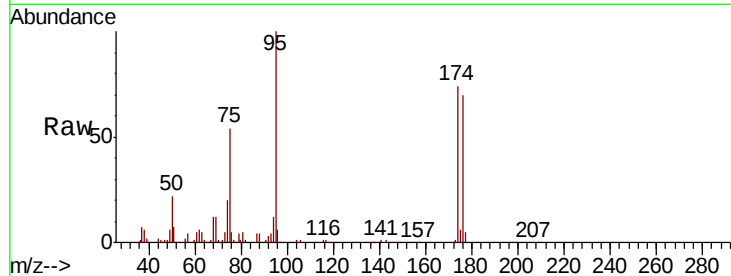
Tgt Ion: 95 Resp: 133288

Ion Ratio Lower Upper

95 100

174 73.8 59.4 89.0

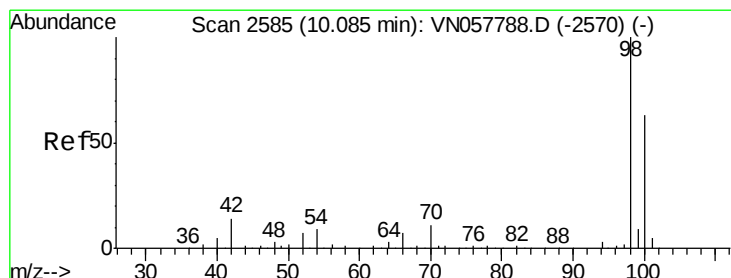
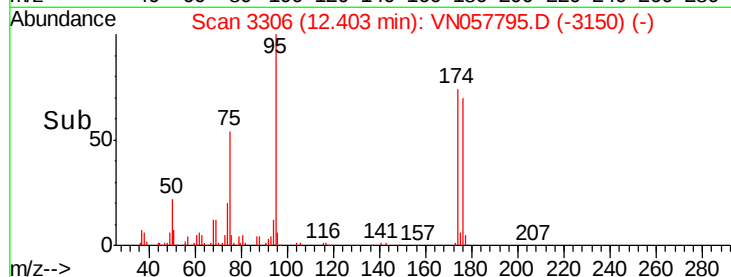
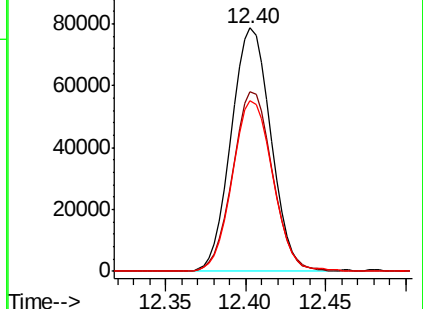
176 71.6 57.4 86.0



Abundance Ion 95.00 (94.70 to 95.70): VN057788.D (-3293) (-)

Ion 174.00 (173.70 to 174.70): VN057788.D (-3293) (-)

Ion 176.00 (175.70 to 176.70): VN057788.D (-3293) (-)



#63

Toluene-d8

Concen: 31.037 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057795.D

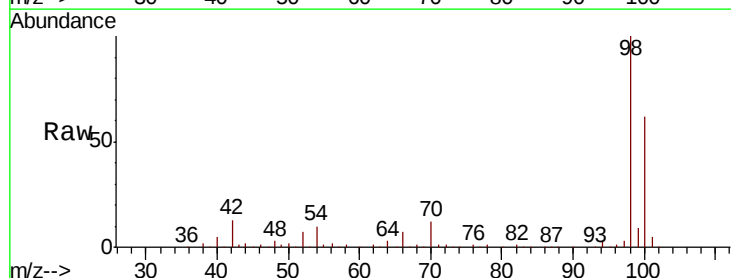
Acq: 9 Sep 2019 12:30

Tgt Ion: 98 Resp: 431223

Ion Ratio Lower Upper

98 100

100 61.9 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057788.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN057788.D (-2570) (-)

