

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121018\  
 Data File : VN052743.D  
 Acq On : 10 Dec 2018 10:26  
 Operator : MD\SY  
 Sample : VN1210WBL01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 4 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1210WBL01

Quant Time: Dec 11 00:59:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Nov 27 00:48:33 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.19  | 128  | 166015   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.58  | 114  | 971040   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 821630   | 30.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 27) 1,2-Dichloroethane-d4   | 8.03   | 65    | 335853   | 29.69    | ug/l | 0.00   |
| Spiked Amount               | 30.000 | Range | 50 - 169 | Recovery | =    | 98.97% |
| 60) 4-Bromofluorobenzene    | 12.40  | 95    | 357315   | 28.44    | ug/l | 0.00   |
| Spiked Amount               | 30.000 | Range | 56 - 143 | Recovery | =    | 94.80% |
| 63) Toluene-d8              | 10.09  | 98    | 1125678  | 29.55    | ug/l | 0.00   |
| Spiked Amount               | 30.000 | Range | 66 - 137 | Recovery | =    | 98.50% |

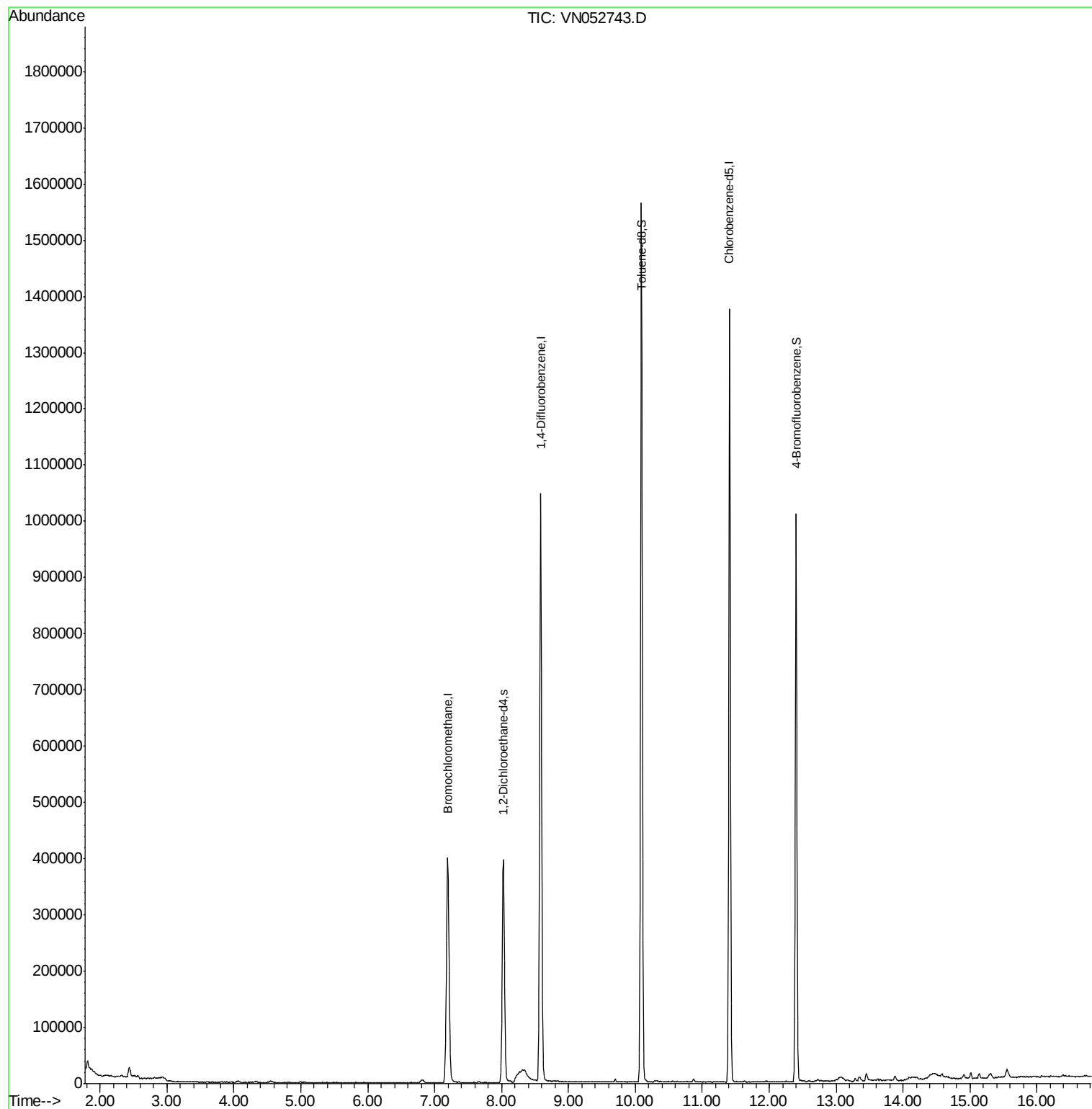
| Target Compounds | Ovalue |
|------------------|--------|
| -----            |        |

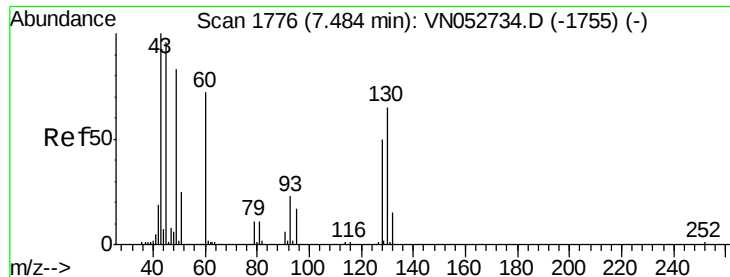
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Tue Nov 27 00:48:33 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN052743.D

Acq: 10 Dec 2018 10:26

Instrument :

MSVOA\_N

ClientSampleId :

VN1210WBL01

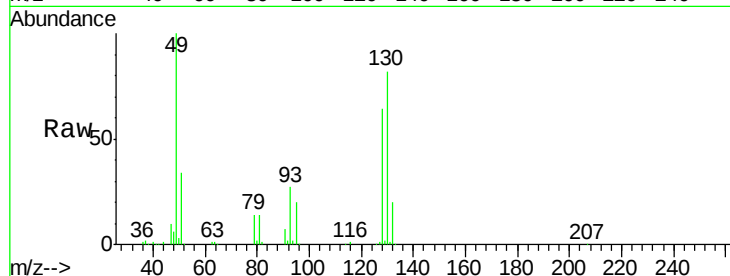
Tot Ion:128 Resp: 166015

Ion Ratio Lower Upper

128 100

49 160.0 0.0 431.8

130 129.0 0.0 317.0



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

120000

100000

80000

60000

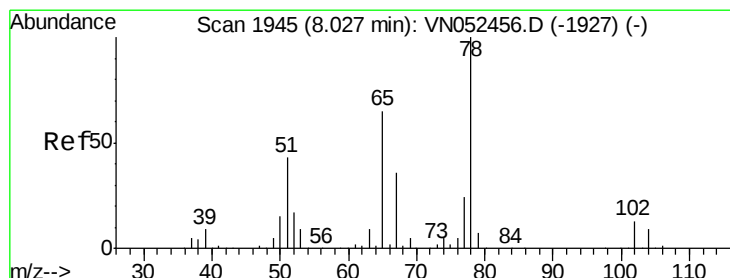
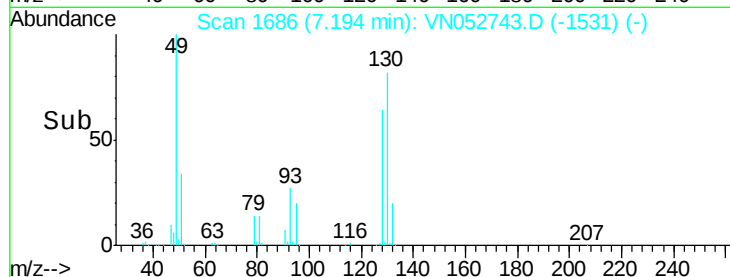
40000

20000

0

7.10 7.15 7.20 7.25 7.30

Time-->



#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052743.D

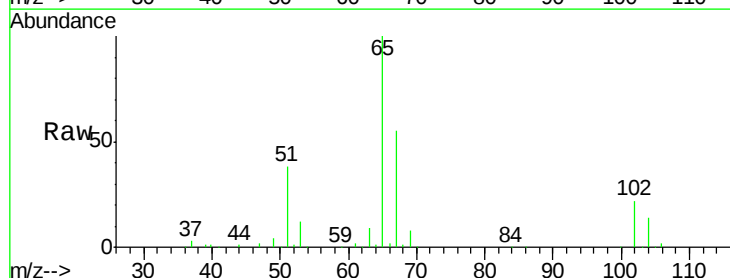
Acq: 10 Dec 2018 10:26

Tgt Ion: 65 Resp: 335853

Ion Ratio Lower Upper

65 100

67 55.1 44.6 66.8



Abundance Ion 65.00 (64.70 to 65.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

150000

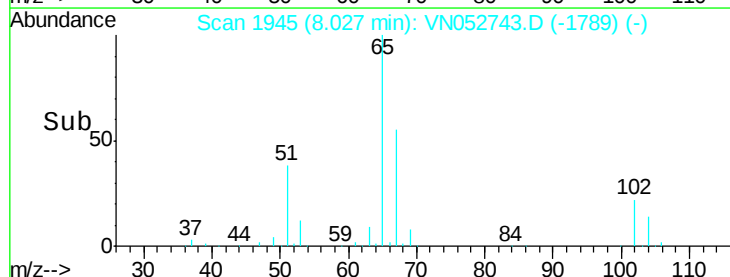
100000

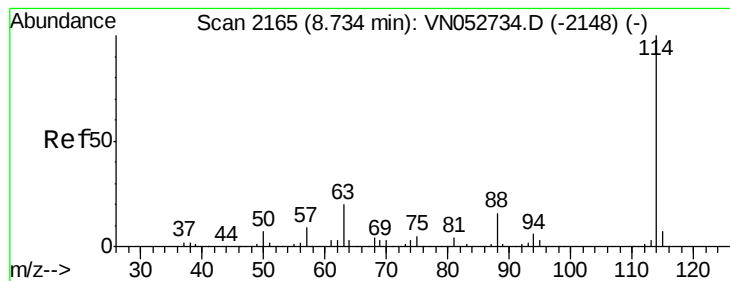
50000

0

7.95 8.00 8.05 8.10

Time-->





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN052743.D

Acq: 10 Dec 2018 10:26

Instrument :

MSVOA\_N

ClientSampleId :

VN1210WBL01

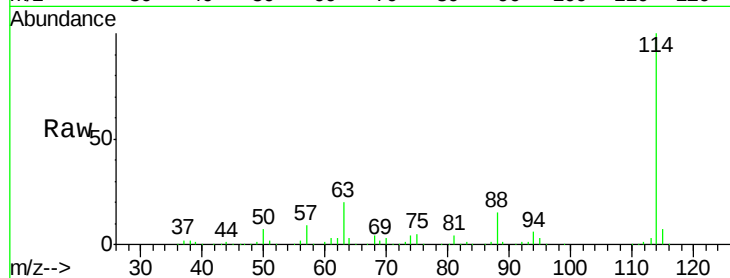
Tot Ion:114 Resp: 971040

Ion Ratio Lower Upper

114 100

63 19.9 16.9 25.3

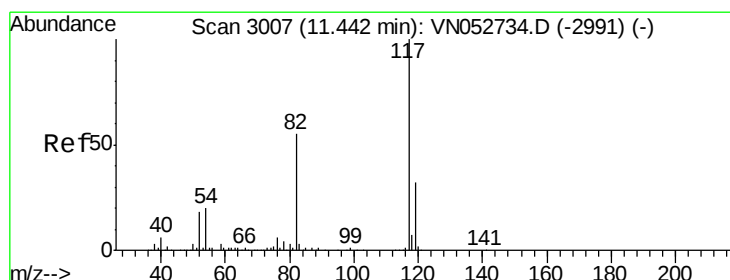
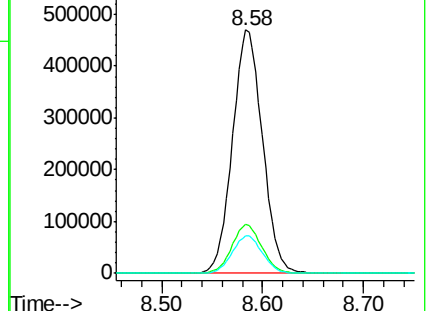
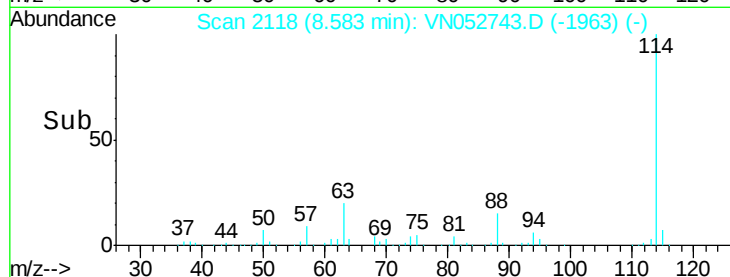
88 15.5 12.8 19.2



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: VN052743.D

Acq: 10 Dec 2018 10:26

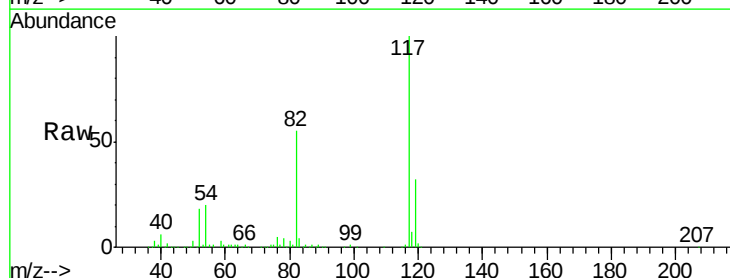
Tgt Ion:117 Resp: 821630

Ion Ratio Lower Upper

117 100

82 54.3 44.2 66.2

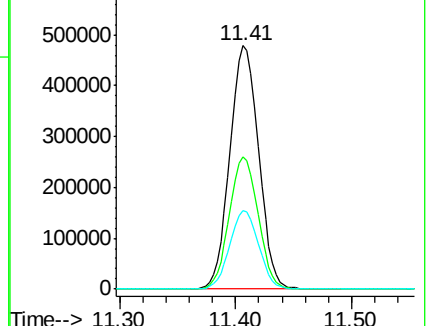
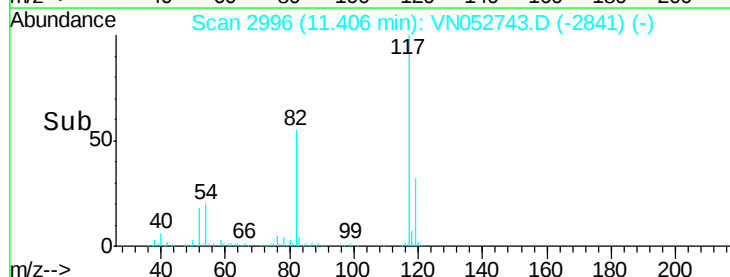
119 32.4 25.4 38.2

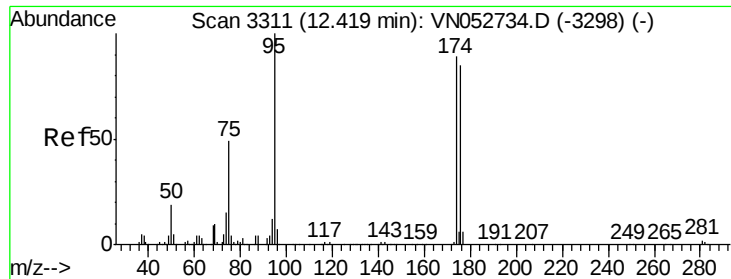


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 119.00 (118.70 to 119.70): V

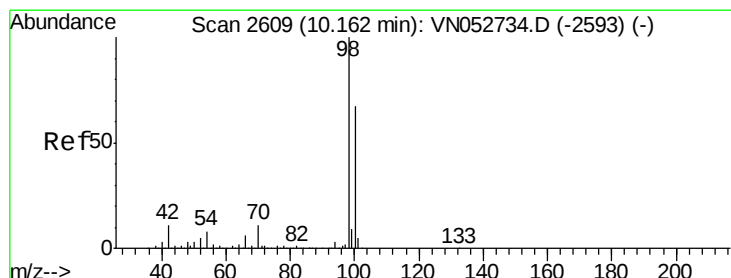
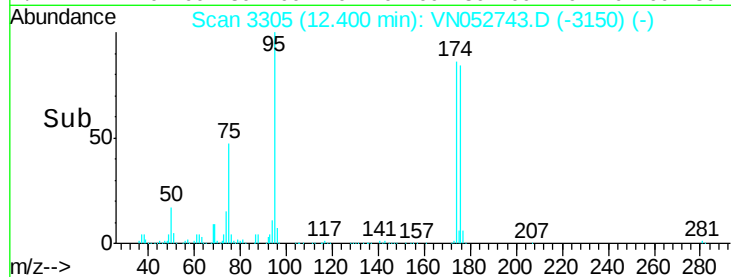
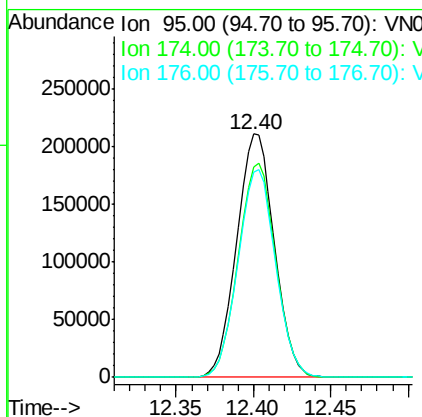
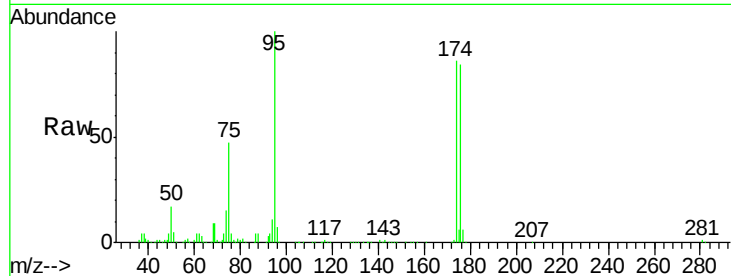




#60  
4-Bromofluorobenzene  
Concen: Below ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN052743.D  
Acq: 10 Dec 2018 10:26

Instrument :  
MSVOA\_N  
ClientSampled :  
VN1210WBL01

Tot Ion: 95 Resp: 357315  
Ion Ratio Lower Upper  
95 100  
174 87.6 67.9 101.9  
176 85.2 66.4 99.6



#63  
Toluene-d8  
Concen: Below ug/l  
RT: 10.09 min Scan# 2586  
Delta R.T. -0.00 min  
Lab File: VN052743.D  
Acq: 10 Dec 2018 10:26

Tgt Ion: 98 Resp: 1125678  
Ion Ratio Lower Upper  
98 100  
100 64.8 51.1 76.7

