

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN112918\  
 Data File : VN052585.D  
 Acq On : 30 Nov 2018 1:04  
 Operator : MD\SY  
 Sample : J6144-02DL 20X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 37 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 14B-2DL

Quant Time: Nov 30 04:21:02 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   | 7.20  | 128  | 170071   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.59  | 114  | 975182   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 802377   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 8.03   | 65    | 349032   | 30.12    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 100.40% |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 321327   | 26.19    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 87.30%  |
| 63) Toluene-d8            | 10.09  | 98    | 1132049  | 30.43    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 101.43% |

## Target Compounds

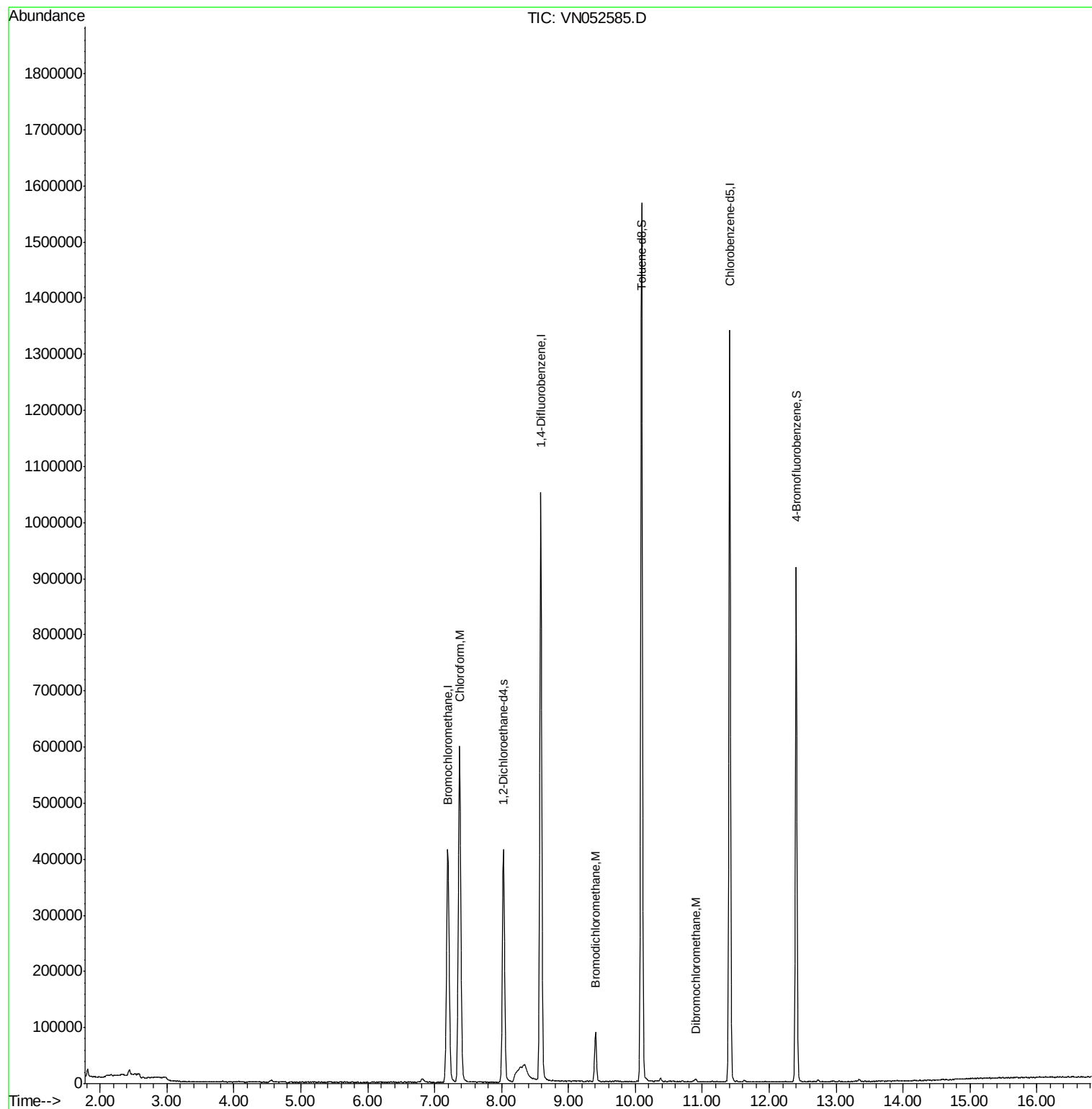
|                          |       |     |        |        | Qvalue  |
|--------------------------|-------|-----|--------|--------|---------|
| 25) Chloroform           | 7.37  | 83  | 641004 | 33.352 | ug/l 99 |
| 41) Bromodichloromethane | 9.40  | 83  | 64220  | 4.482  | ug/l 99 |
| 53) Dibromochloromethane | 10.90 | 129 | 2906   | 0.287  | ug/l 93 |

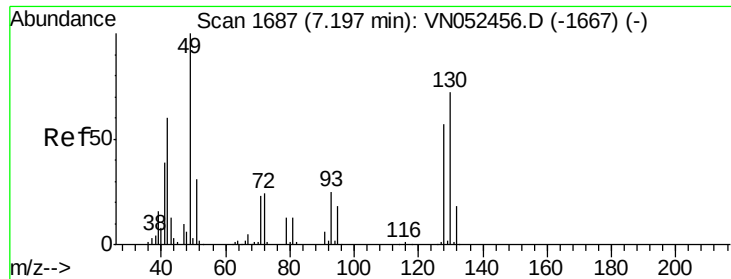
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
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14B-2DL

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QLast Update : Tue Nov 27 00:48:33 2018  
Response via : Initial Calibration

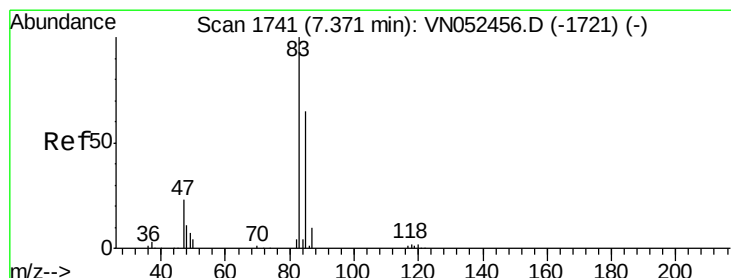
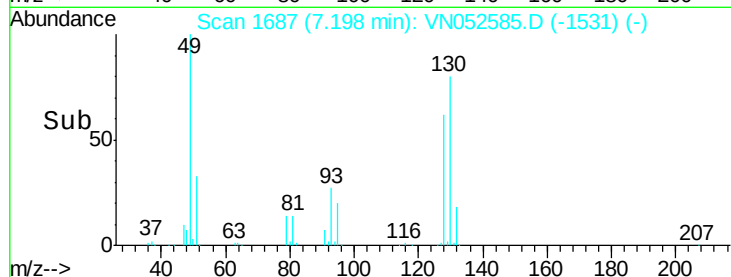
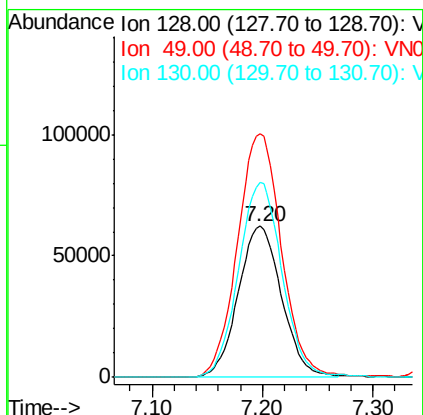
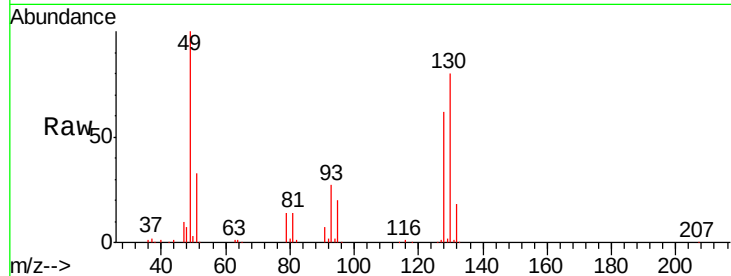




#1  
 Bromochloromethane  
 Concen: 30.000 ug/l  
 RT: 7.20 min Scan# 1687  
 Delta R.T. 0.00 min  
 Lab File: VN052585.D  
 Acq: 30 Nov 2018 1:04

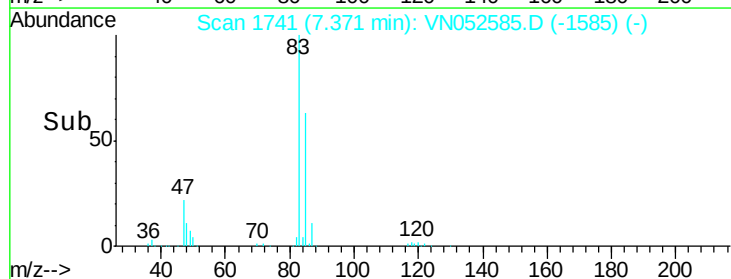
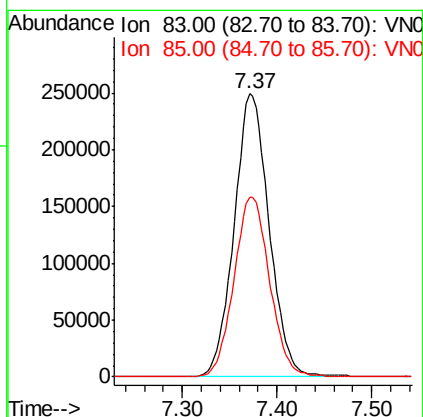
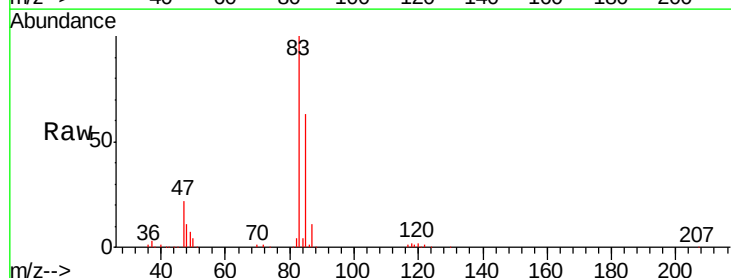
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 14B-2DL

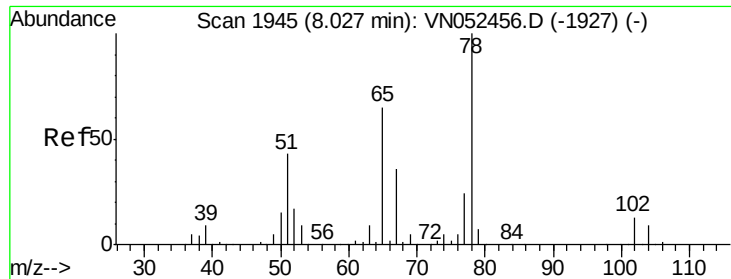
Tgt Ion: 128 Resp: 170071  
 Ion Ratio Lower Upper  
 128 100  
 49 163.7 0.0 431.8  
 130 129.6 0.0 317.0



#25  
 Chloroform  
 Concen: 33.352 ug/l  
 RT: 7.37 min Scan# 1741  
 Delta R.T. 0.00 min  
 Lab File: VN052585.D  
 Acq: 30 Nov 2018 1:04

Tgt Ion: 83 Resp: 641004  
 Ion Ratio Lower Upper  
 83 100  
 85 63.5 51.7 77.5

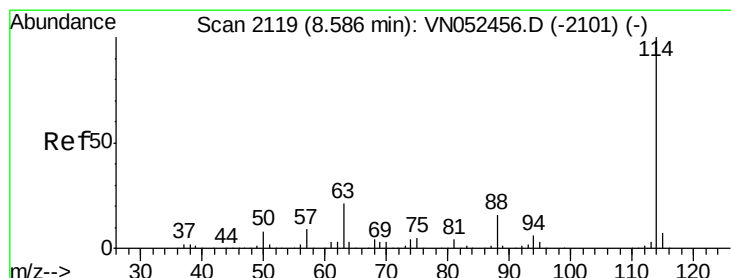
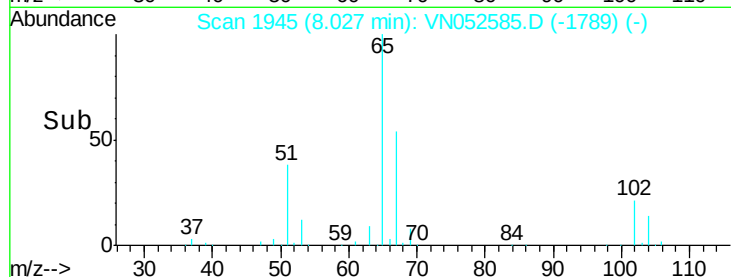
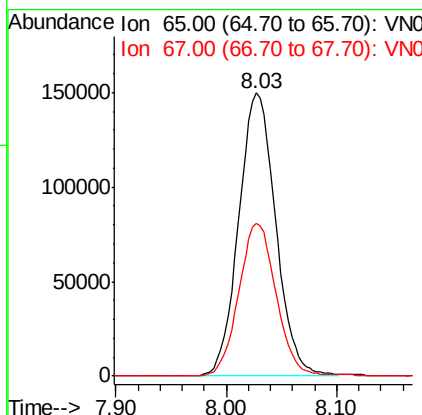
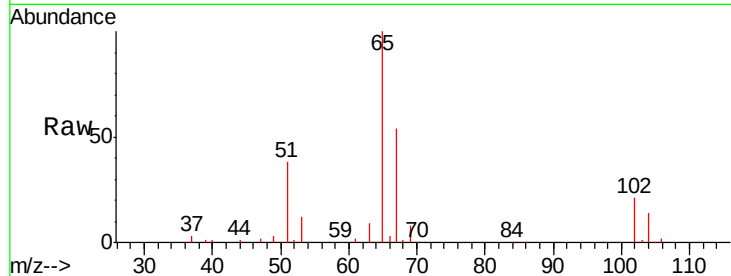




#27  
 1,2-Dichloroethane-d4  
 Concen: Below ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. 0.00 min  
 Lab File: VN052585.D  
 Acq: 30 Nov 2018 1:04

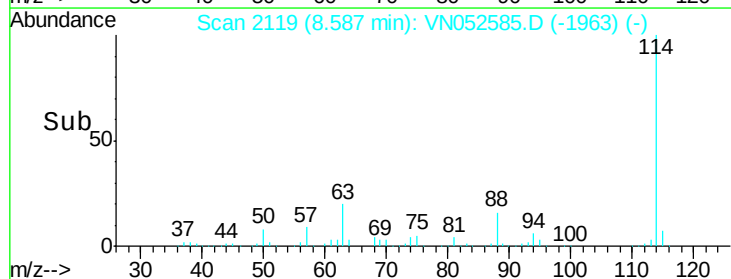
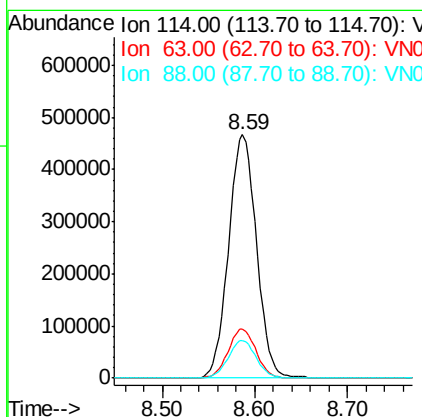
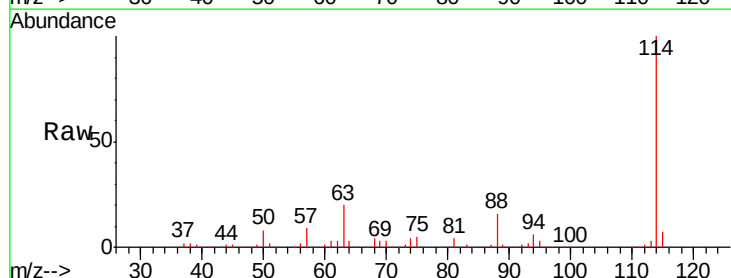
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 14B-2DL

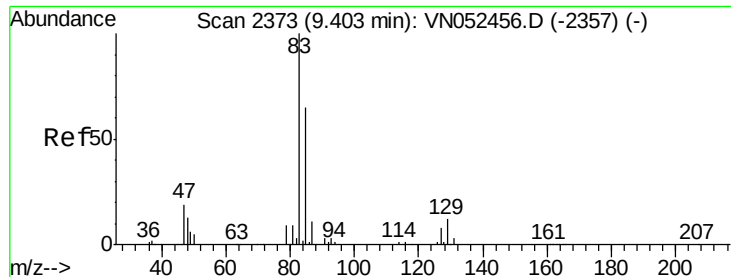
Tgt Ion: 65 Resp: 349032  
 Ion Ratio Lower Upper  
 65 100  
 67 54.4 44.6 66.8



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN052585.D  
 Acq: 30 Nov 2018 1:04

Tgt Ion: 114 Resp: 975182  
 Ion Ratio Lower Upper  
 114 100  
 63 20.2 16.9 25.3  
 88 15.4 12.8 19.2





#41

Bromodichloromethane

Concen: 4.482 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052585.D

Acq: 30 Nov 2018 1:04

Instrument :

MSVOA\_N

ClientSampleId :

14B-2DL

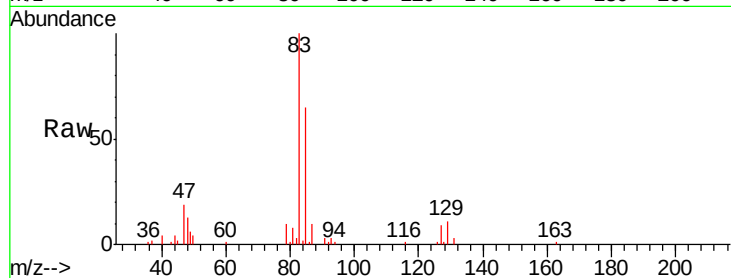
Tgt Ion: 83 Resp: 64220

Ion Ratio Lower Upper

83 100

85 65.1 52.4 78.6

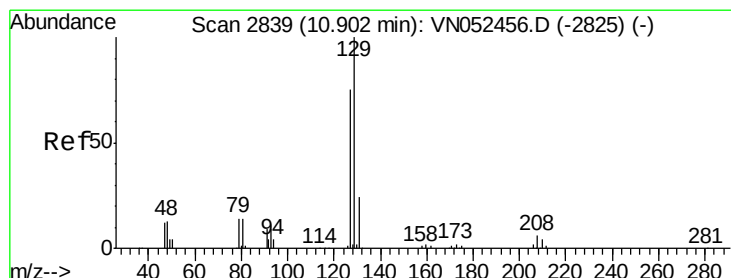
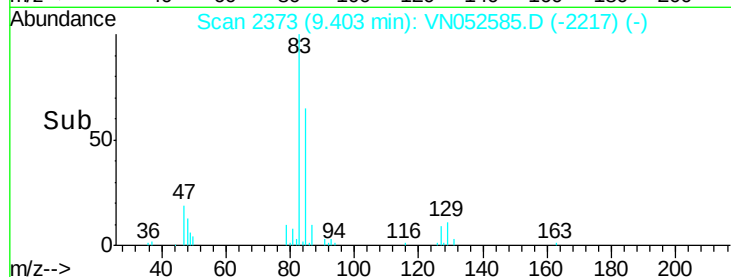
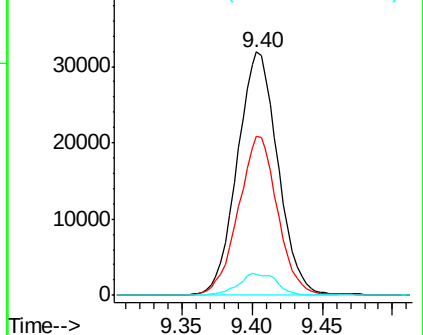
127 8.6 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VN052585.D (-2217) (-)

Ion 85.00 (84.70 to 85.70): VN052585.D (-2217) (-)

Ion 127.00 (126.70 to 127.70): VN052585.D (-2217) (-)



#53

Dibromochloromethane

Concen: 0.287 ug/l

RT: 10.90 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VN052585.D

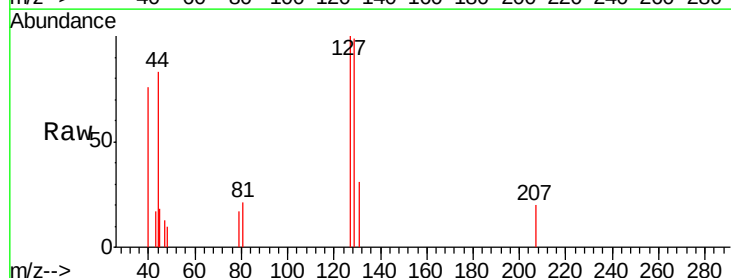
Acq: 30 Nov 2018 1:04

Tgt Ion: 129 Resp: 2906

Ion Ratio Lower Upper

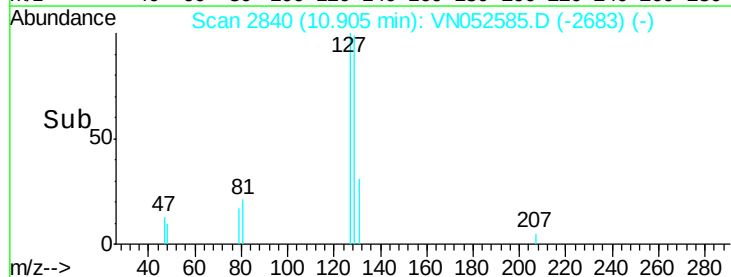
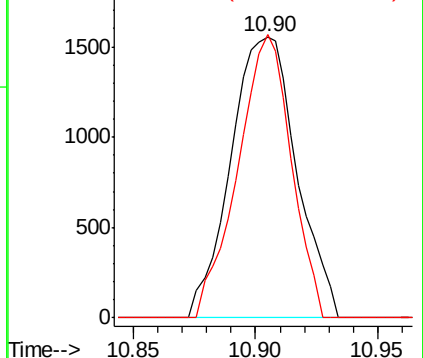
129 100

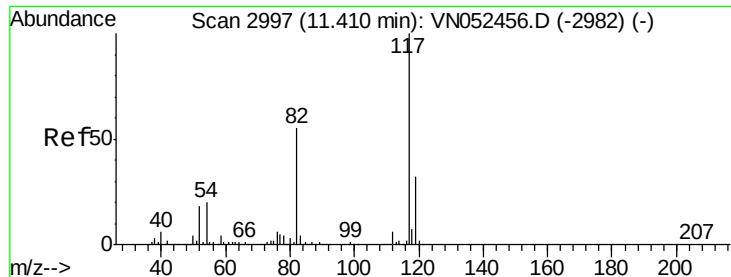
127 81.5 37.6 112.8



Abundance Ion 129.00 (128.70 to 129.70): VN052585.D (-2683) (-)

Ion 127.00 (126.70 to 127.70): VN052585.D (-2683) (-)

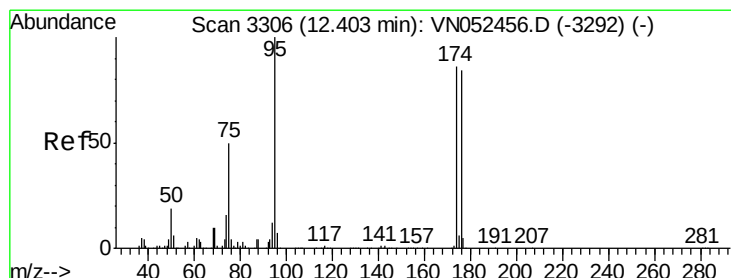
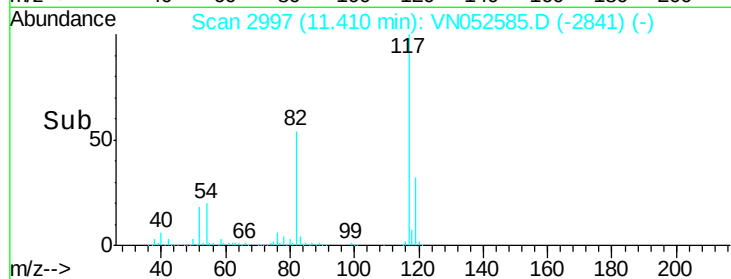
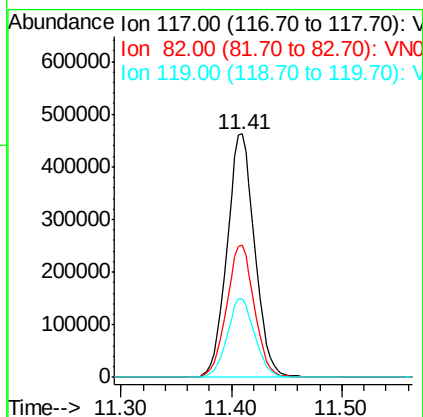
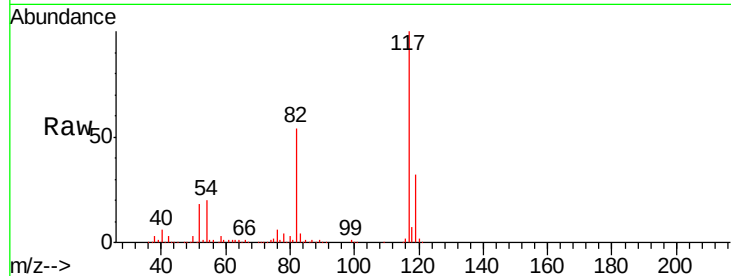




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN052585.D  
Acq: 30 Nov 2018 1:04

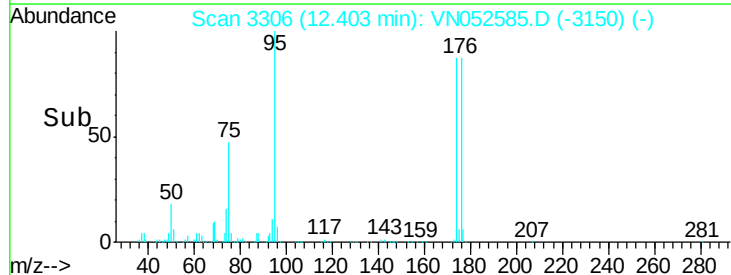
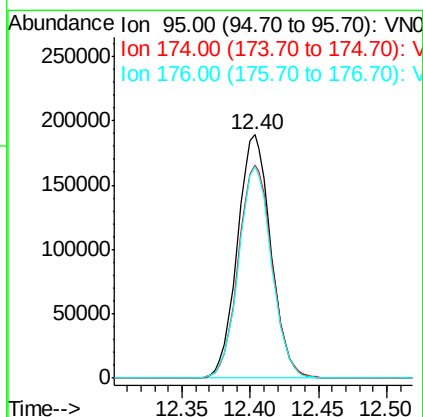
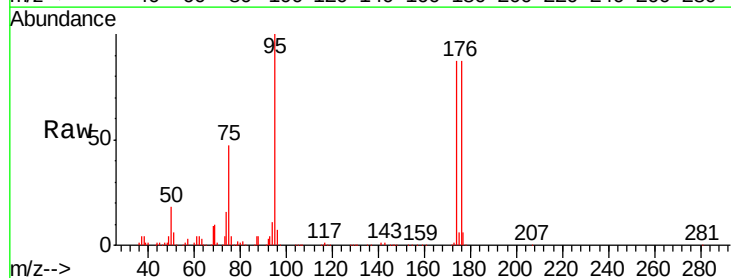
Instrument :  
MSVOA\_N  
ClientSampled :  
14B-2DL

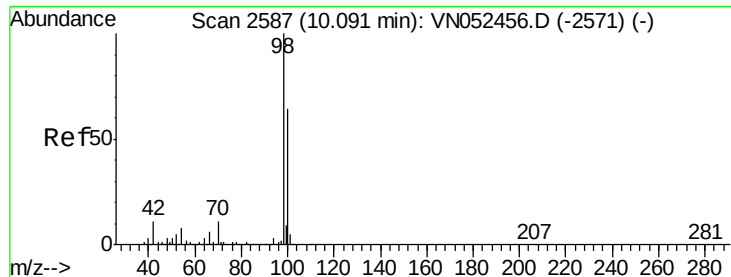
Tgt Ion: 117 Resp: 802377  
Ion Ratio Lower Upper  
117 100  
82 54.5 44.2 66.2  
119 32.2 25.4 38.2



#60  
4-Bromofluorobenzene  
Concen: Below ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN052585.D  
Acq: 30 Nov 2018 1:04

Tgt Ion: 95 Resp: 321327  
Ion Ratio Lower Upper  
95 100  
174 88.5 67.9 101.9  
176 86.0 66.4 99.6





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052585.D

Acq: 30 Nov 2018 1:04

Instrument :

MSVOA\_N

ClientSampleId :

14B-2DL

Tgt Ion: 98 Resp: 1132049

Ion Ratio Lower Upper

98 100

100 64.3 51.1 76.7

