

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090119\  
 Data File : VW012474.D  
 Acq On : 02 Sep 2019 03:41  
 Operator : SY/VA  
 Sample : K4527-19  
 Misc : 5.73G/5ML/MSVOA W/SOIL  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T9-12-13-P-(1.9)

Quant Time: Sep 02 08:39:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

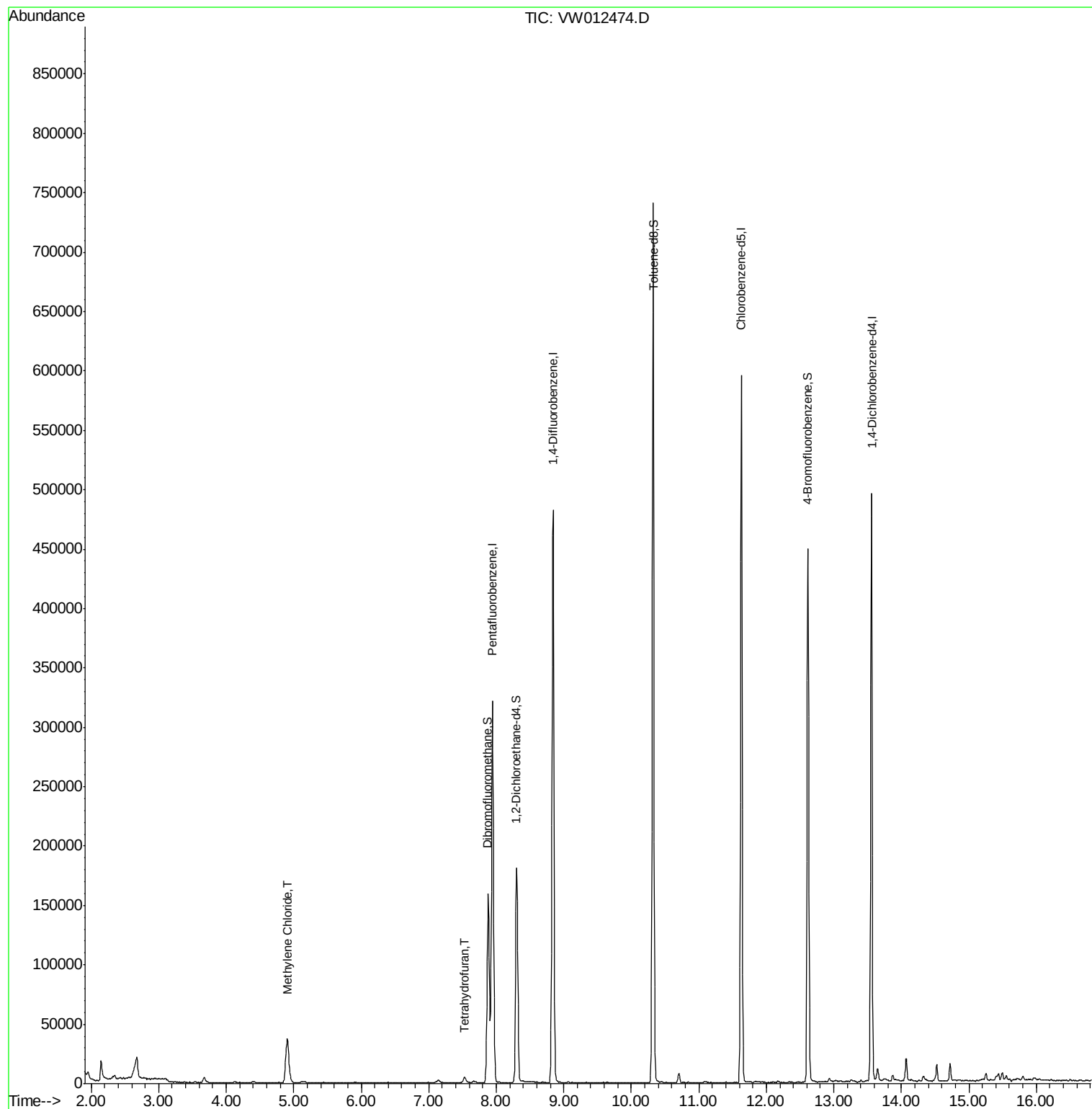
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 229864   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.84  | 114  | 376525   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 310864   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.56 | 152  | 123220   | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 148996   | 54.53 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 109.06% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 115328   | 51.31 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 102.62% |          |
| 50) Toluene-d8              | 10.32 | 98   | 456741   | 50.12 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.24% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 142466   | 44.35 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 88.70%  |          |
| Target Compounds            |       |      |          |       |         |          |
| 20) Methylene Chloride      | 4.90  | 84   | 26182    | 9.915 | ug/l    | 98       |
| 29) Tetrahydrofuran         | 7.52  | 42   | 3573     | 6.274 | ug/l #  | 88       |

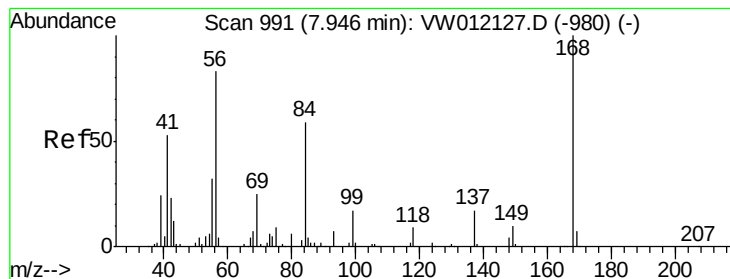
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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T9-12-13-P-(1.9)

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QLast Update : Mon Aug 26 07:18:31 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012474.D

Acq: 02 Sep 2019 03:41

Instrument :

MSVOA\_W

ClientSampleId :

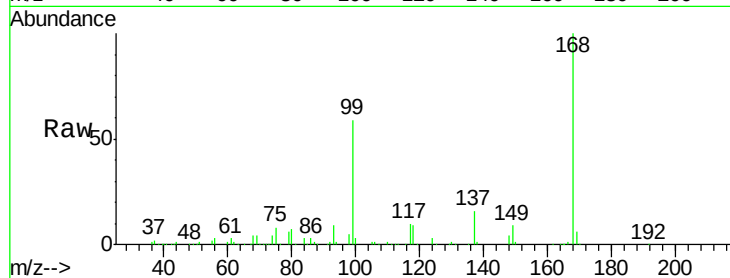
T9-12-13-P-(1.9)

Tot Ion:168 Resp: 229864

Ion Ratio Lower Upper

168 100

99 59.3 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

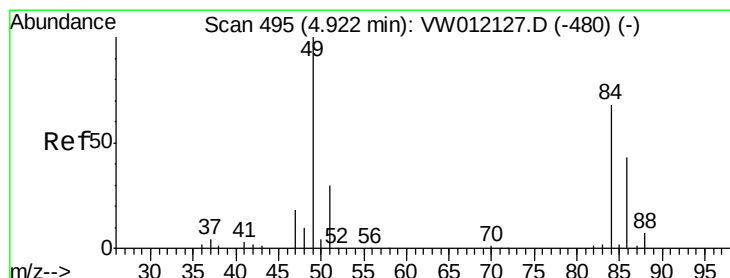
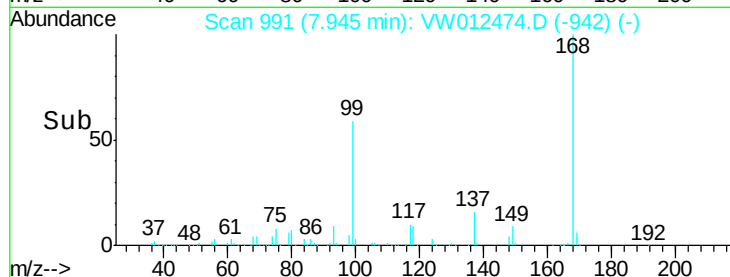
60000

40000

20000

0

Time-->



#20

Methylene Chloride

Concen: 9.915 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.02 min

Lab File: VW012474.D

Acq: 02 Sep 2019 03:41

Tgt Ion: 84 Resp: 26182

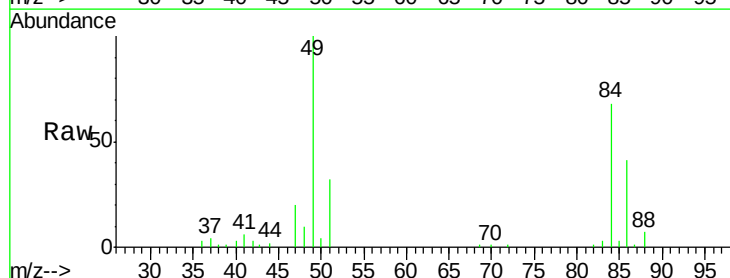
Ion Ratio Lower Upper

84 100

49 146.8 117.8 176.8

51 46.7 35.6 53.4

86 60.2 51.2 76.8



Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

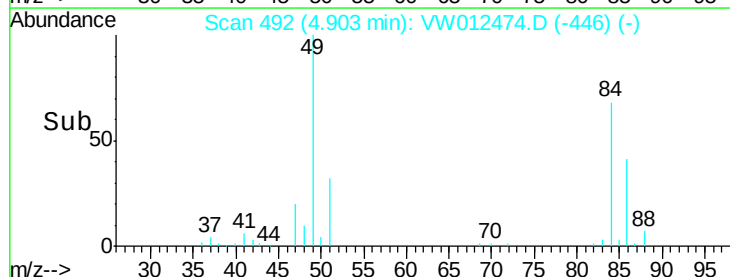
15000

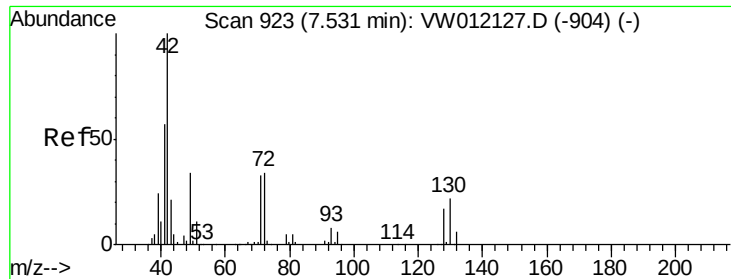
10000

5000

0

Time-->

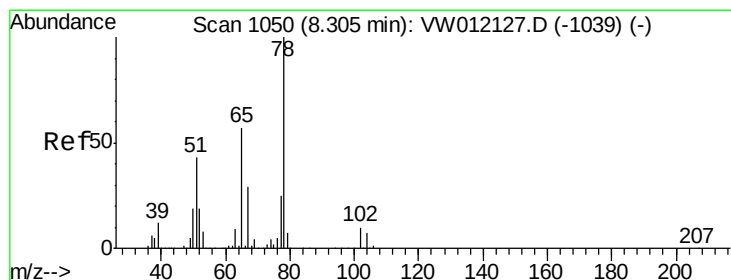
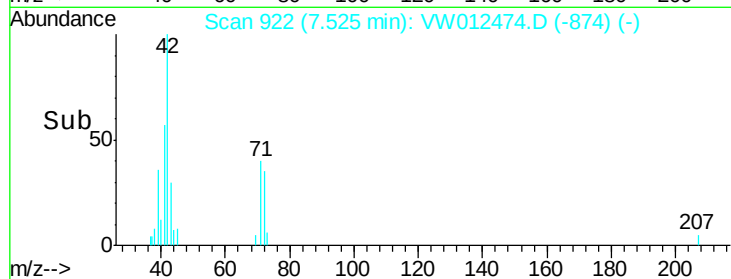
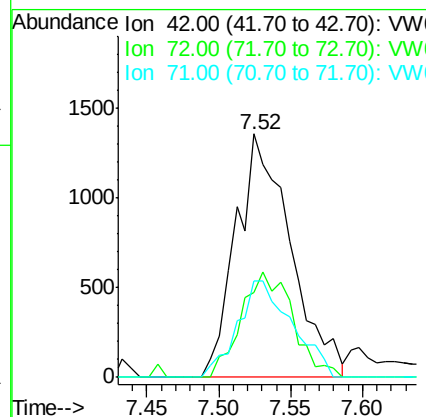
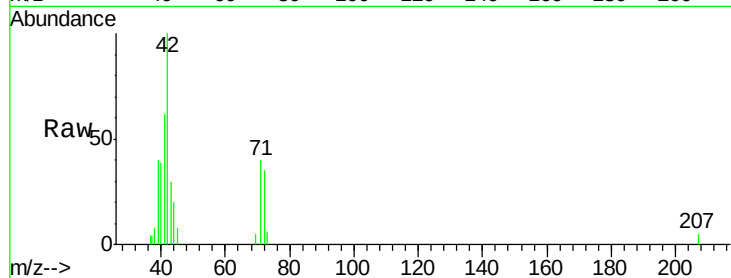




#29  
Tetrahydrofuran  
Concen: 6.274 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: VW012474.D  
Acq: 02 Sep 2019 03:41

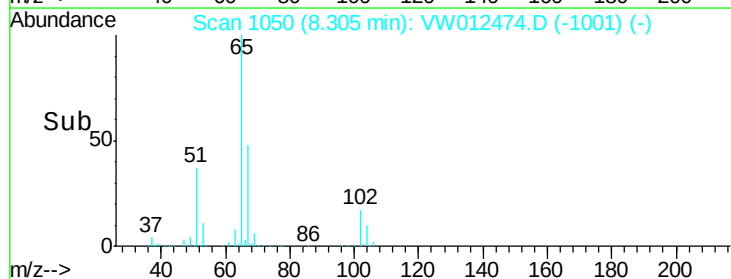
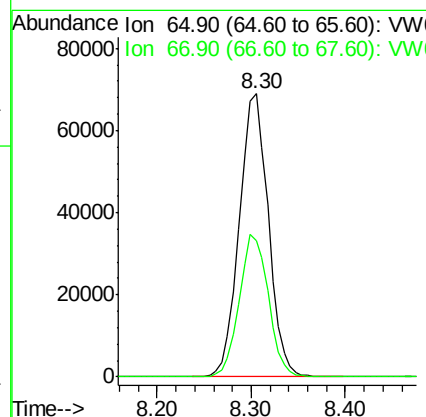
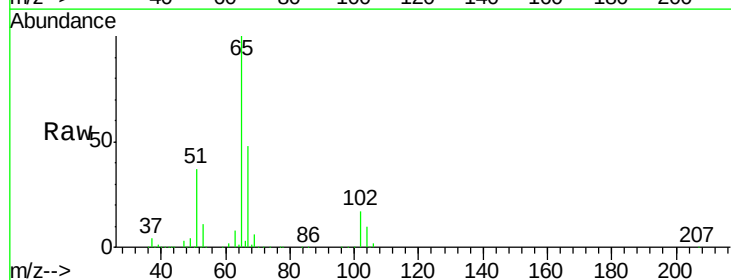
Instrument :  
MSVOA\_W  
ClientSampleId :  
T9-12-13-P-(1.9)

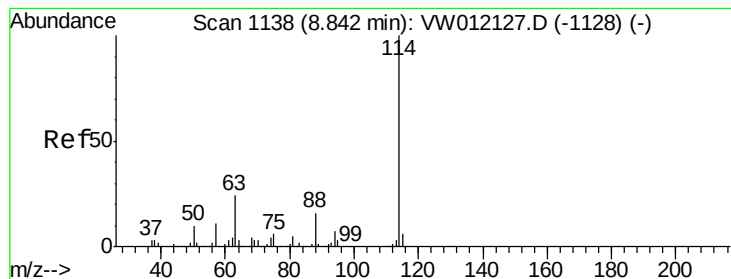
Tot Ion: 42 Resp: 3573  
Ion Ratio Lower Upper  
42 100  
72 40.7 27.3 40.9  
71 39.4 25.5 38.3#



#33  
1,2-Dichloroethane-d4  
Concen: 54.527 ug/l  
RT: 8.30 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VW012474.D  
Acq: 02 Sep 2019 03:41

Tgt Ion: 65 Resp: 148996  
Ion Ratio Lower Upper  
65 100  
67 50.2 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012474.D

Acq: 02 Sep 2019 03:41

Instrument :

MSVOA\_W

ClientSampleId :

T9-12-13-P-(1.9)

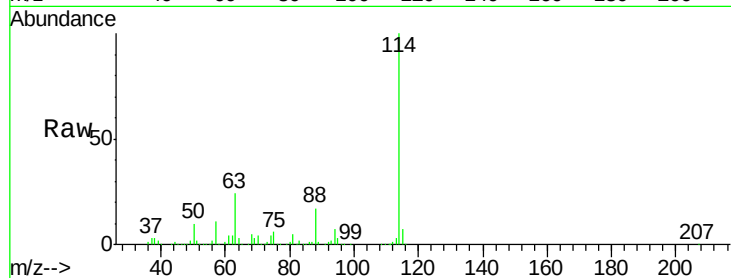
Tot Ion:114 Resp: 376525

Ion Ratio Lower Upper

114 100

63 24.3 0.0 48.6

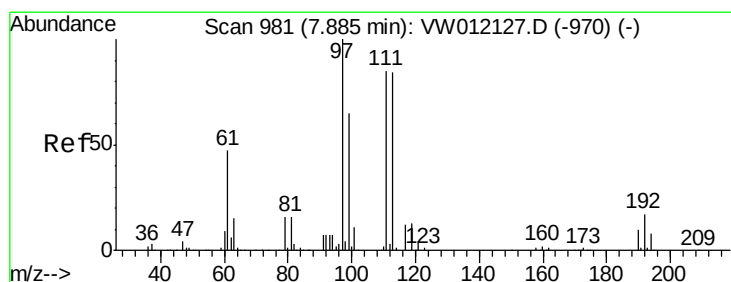
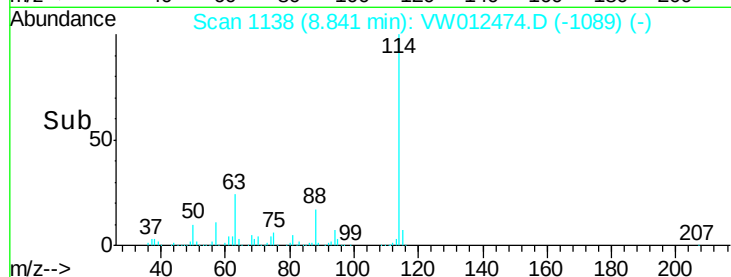
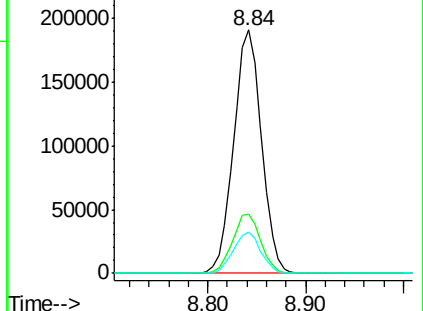
88 17.1 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 51.314 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012474.D

Acq: 02 Sep 2019 03:41

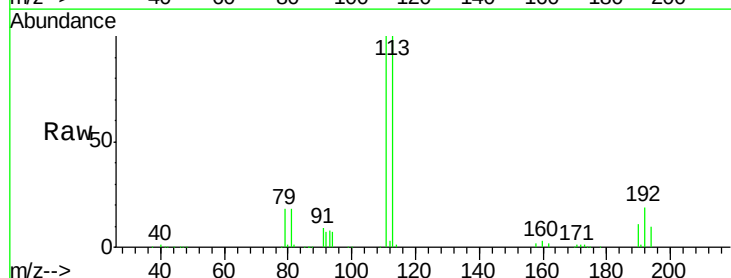
Tgt Ion:113 Resp: 115328

Ion Ratio Lower Upper

113 100

111 102.5 82.7 124.1

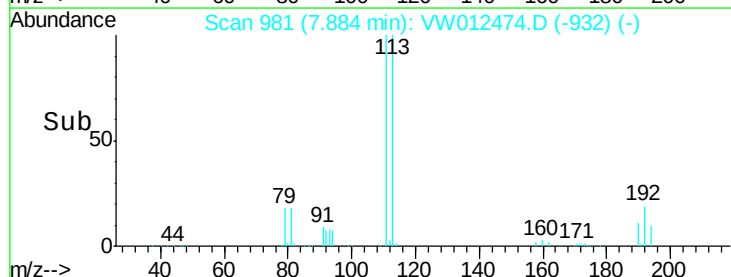
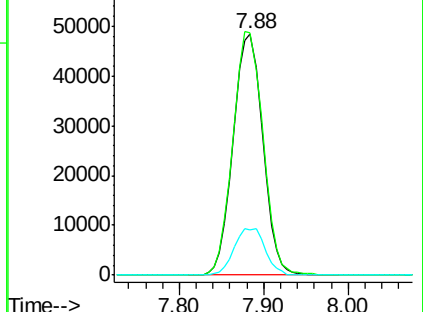
192 20.3 16.2 24.2

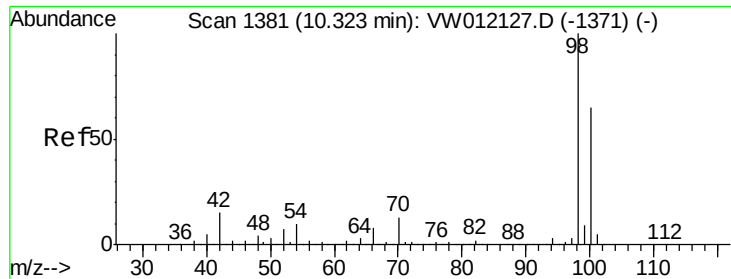


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 50.120 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012474.D

Acq: 02 Sep 2019 03:41

Instrument :

MSVOA\_W

ClientSampleId :

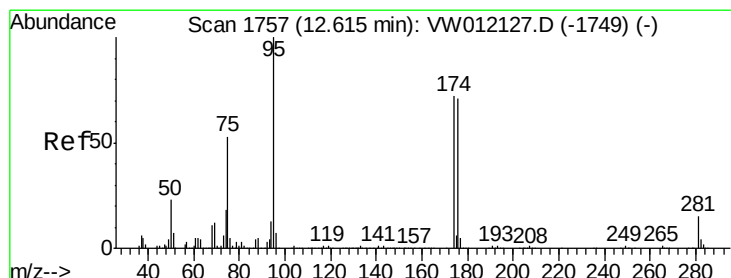
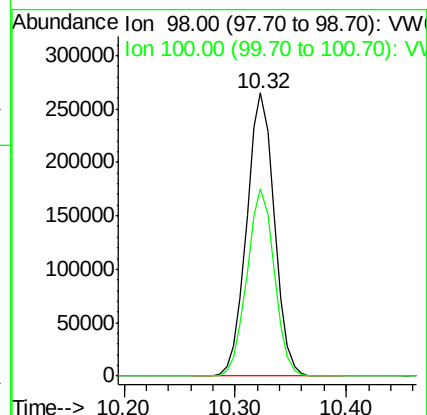
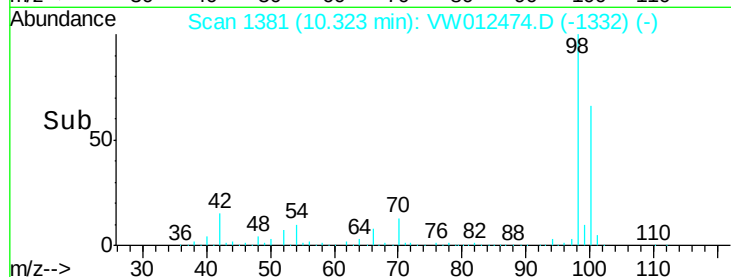
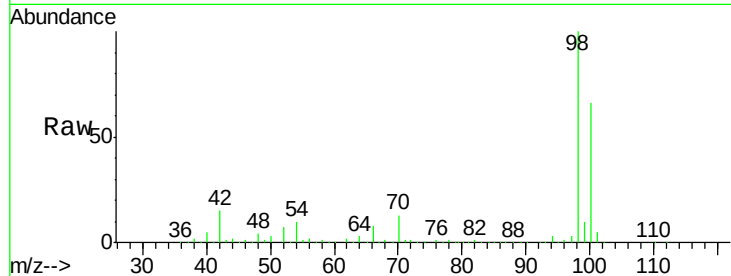
T9-12-13-P-(1.9)

Tot Ion: 98 Resp: 456741

Ion Ratio Lower Upper

98 100

100 65.5 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 44.350 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012474.D

Acq: 02 Sep 2019 03:41

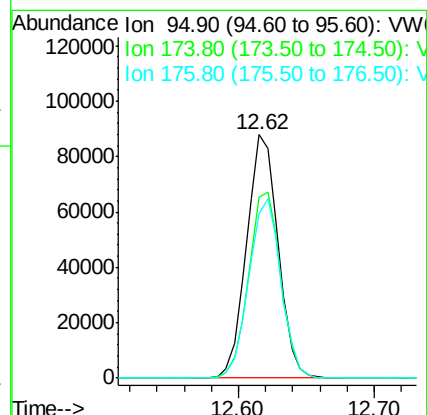
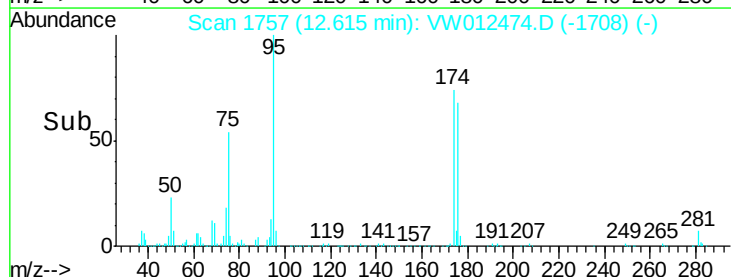
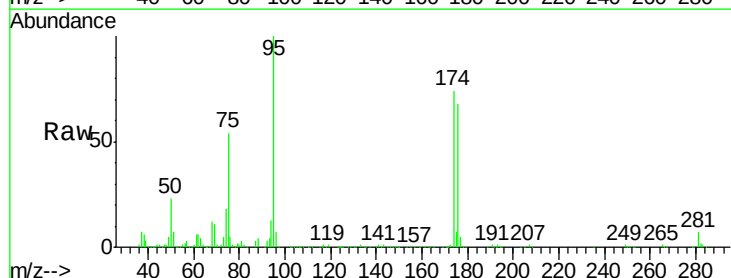
Tgt Ion: 95 Resp: 142466

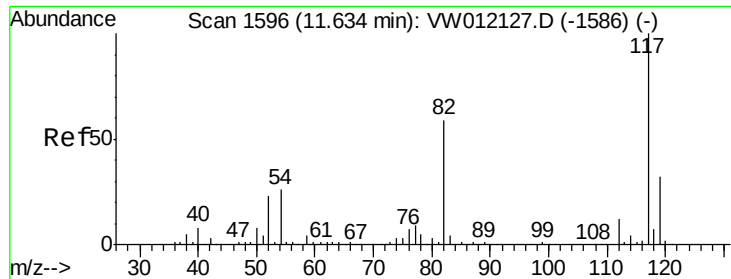
Ion Ratio Lower Upper

95 100

174 78.2 0.0 150.8

176 75.2 0.0 148.6

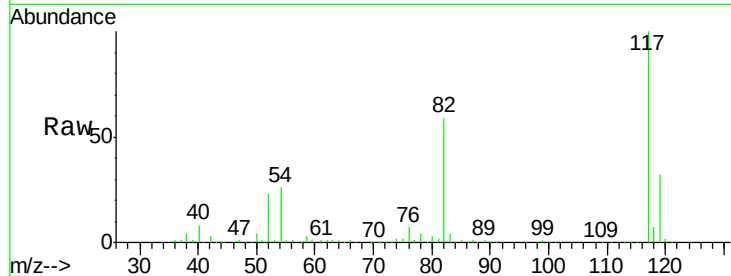




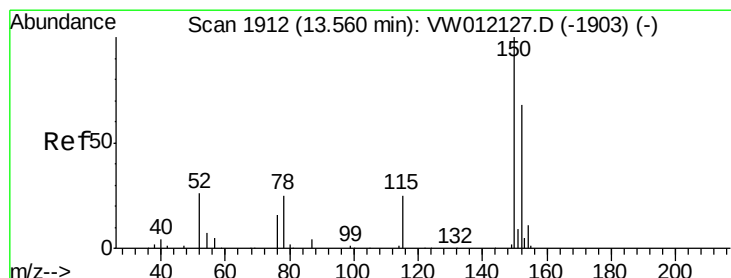
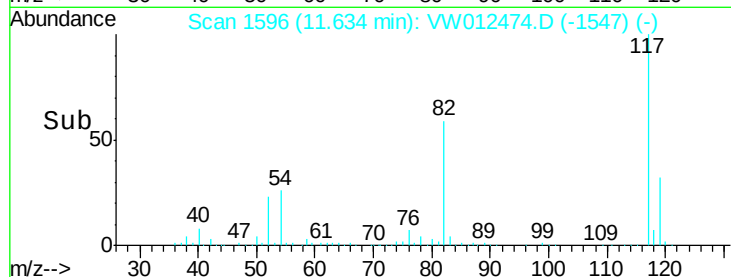
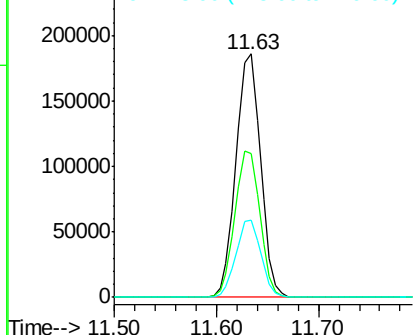
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW012474.D  
Acq: 02 Sep 2019 03:41

Instrument :  
MSVOA\_W  
ClientSampleId :  
T9-12-13-P-(1.9)

Tot Ion:117 Resp: 310864  
Ion Ratio Lower Upper  
117 100  
82 59.2 47.4 71.2  
119 31.7 25.4 38.2

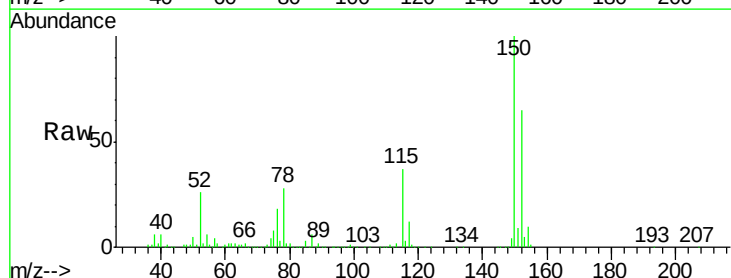


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW012474.D  
Acq: 02 Sep 2019 03:41

Tgt Ion:152 Resp: 123220  
Ion Ratio Lower Upper  
152 100  
115 59.8 30.1 90.3  
150 155.9 0.0 345.8



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V

