

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082620\  
 Data File : VD066419.D  
 Acq On : 26 Aug 2020 14:37  
 Operator : VA/SY  
 Sample : L3793-10  
 Misc : 7.52G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-4

Quant Time: Aug 27 08:14:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 13:36:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.97  | 168  | 203512   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 299357   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 276601   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 142927   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 113094   | 56.68 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 113.36% |      |
| 35) Dibromofluoromethane    | 7.91   | 113 | 94953    | 50.73 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.46% |      |
| 50) Toluene-d8              | 10.34  | 98  | 347363   | 50.72 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.44% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 117408   | 48.31 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.62%  |      |

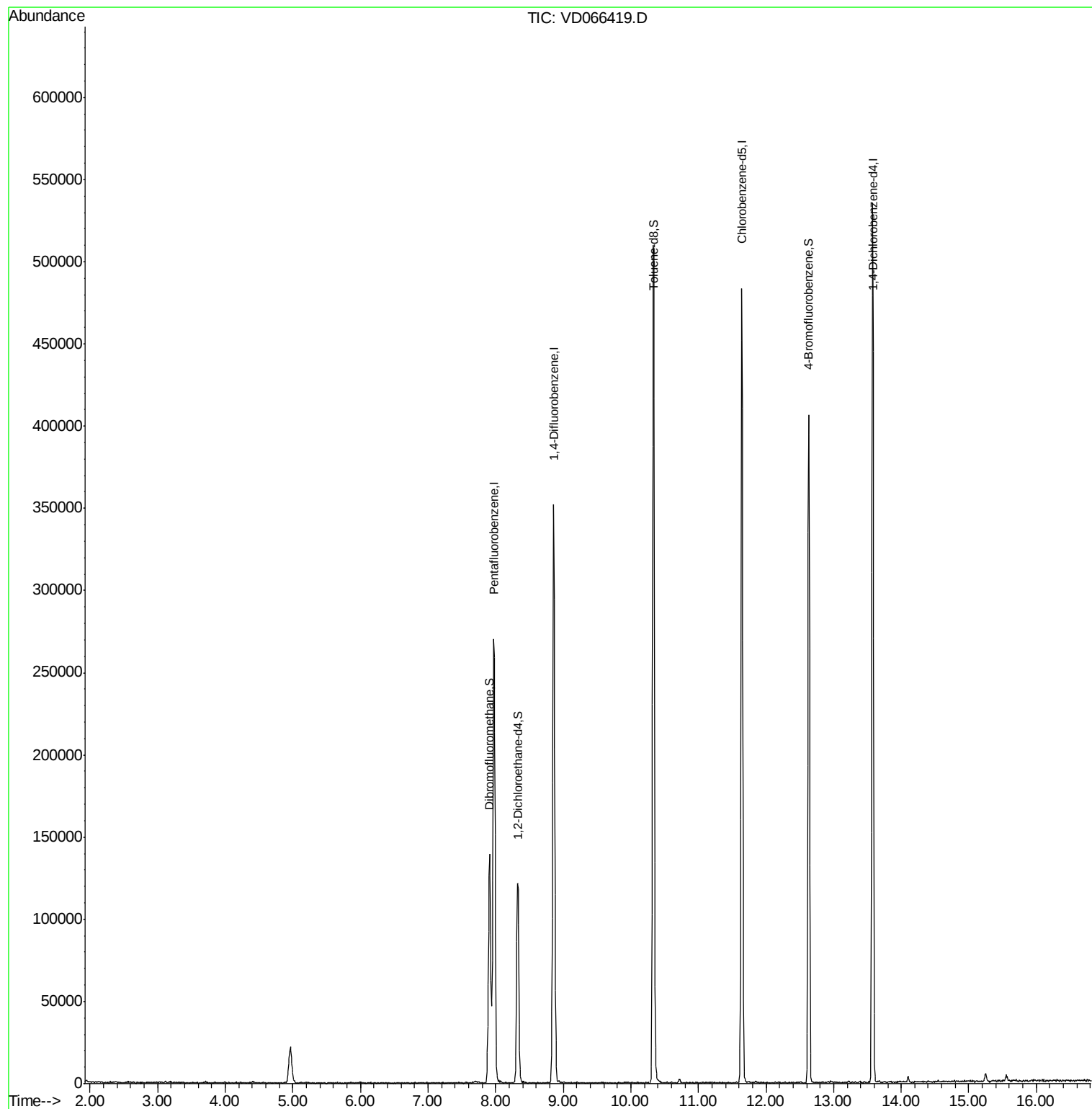
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

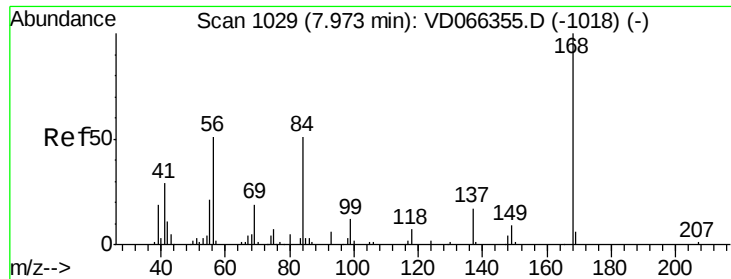
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 13:36:12 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VD066419.D

Acq: 26 Aug 2020 14:37

Instrument :

MSVOA\_D

ClientSampleId :

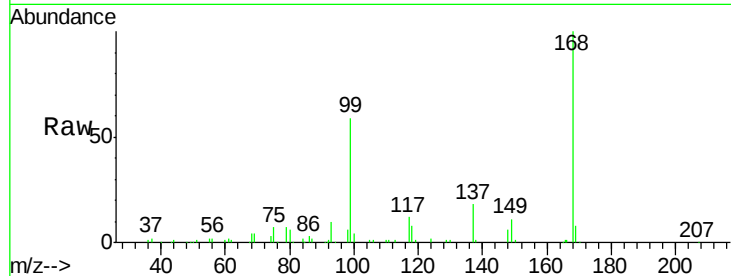
TP-4

Tot Ion:168 Resp: 203512

Ion Ratio Lower Upper

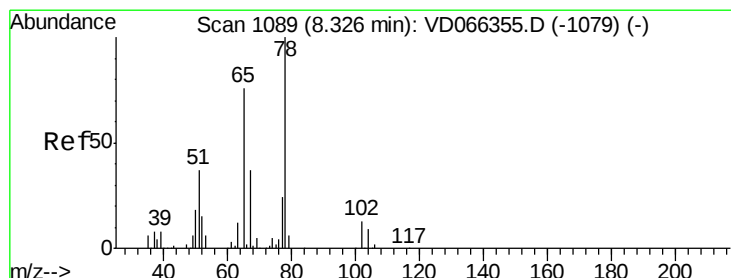
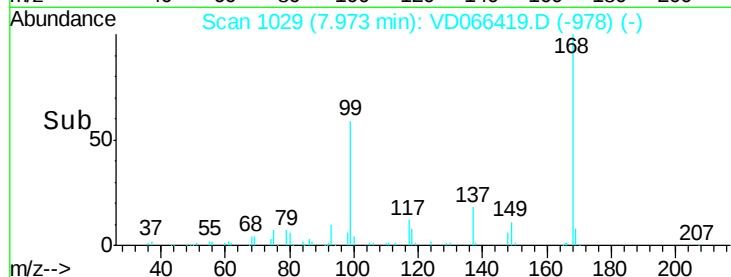
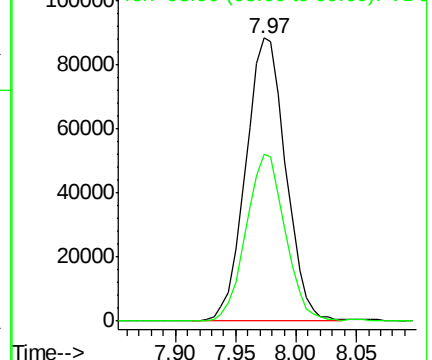
168 100

99 58.9 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#33

1,2-Dichloroethane-d4

Concen: 56.682 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VD066419.D

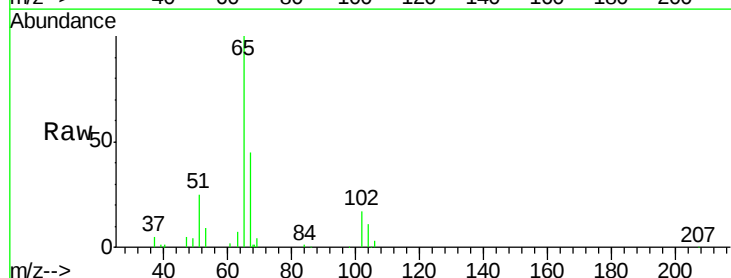
Acq: 26 Aug 2020 14:37

Tgt Ion: 65 Resp: 113094

Ion Ratio Lower Upper

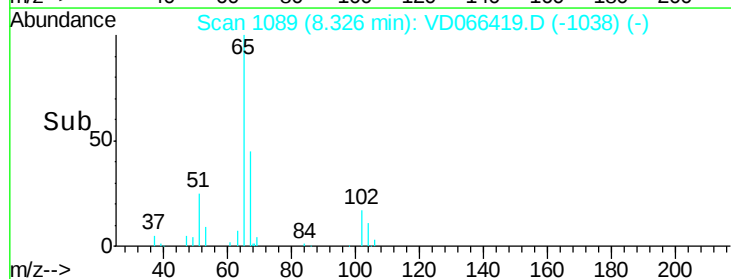
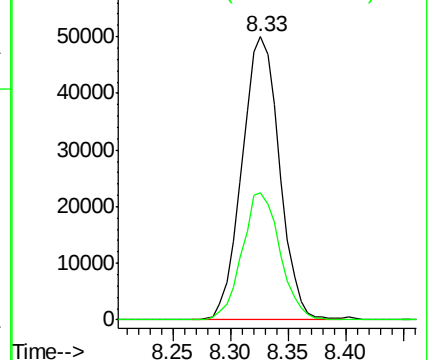
65 100

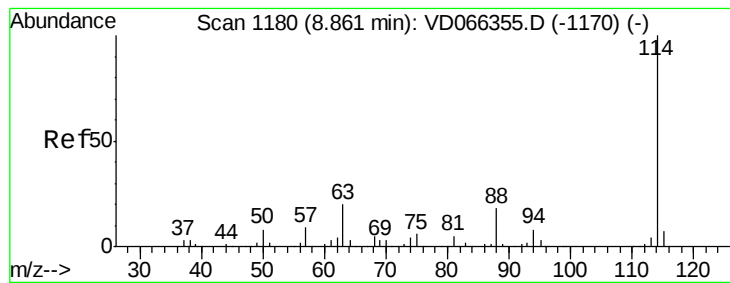
67 45.3 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD066419.D

Acq: 26 Aug 2020 14:37

Instrument :

MSVOA\_D

ClientSampleId :

TP-4

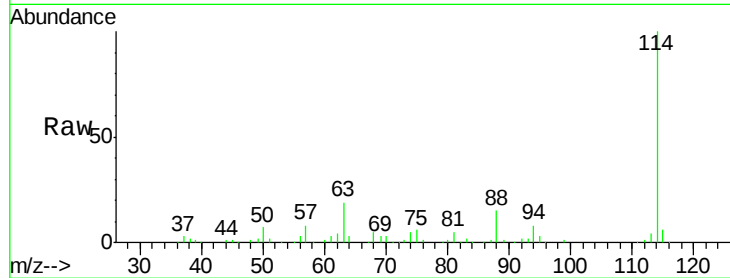
Tot Ion:114 Resp: 299357

Ion Ratio Lower Upper

114 100

63 18.8 0.0 40.8

88 14.8 0.0 35.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V

200000

150000

100000

50000

0

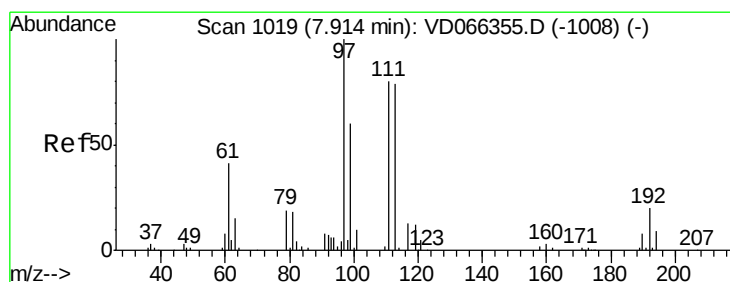
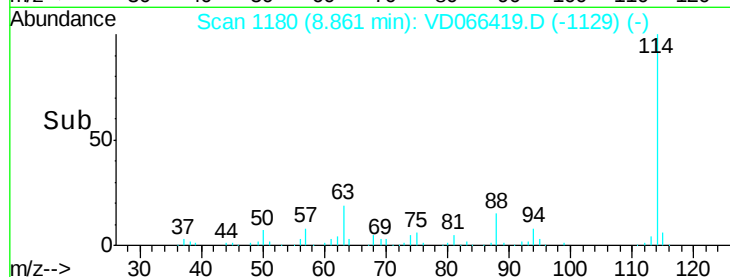
8.86

8.85

8.90

8.95

Time-->



#35

Dibromofluoromethane

Concen: 50.725 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. -0.01 min

Lab File: VD066419.D

Acq: 26 Aug 2020 14:37

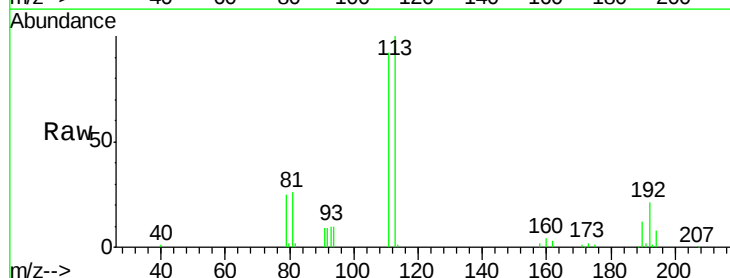
Tgt Ion:113 Resp: 94953

Ion Ratio Lower Upper

113 100

111 99.9 80.3 120.5

192 22.7 19.0 28.6



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

50000

40000

30000

20000

10000

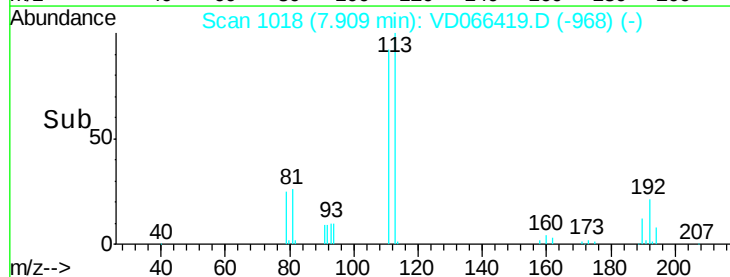
0

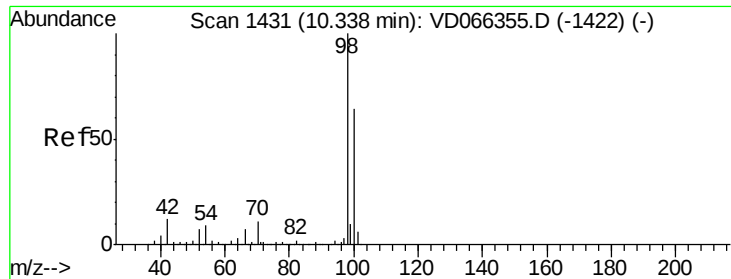
7.91

7.90

8.00

Time-->





#50

Toluene-d8

Concen: 50.717 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066419.D

Acq: 26 Aug 2020 14:37

Instrument :

MSVOA\_D

ClientSampleId :

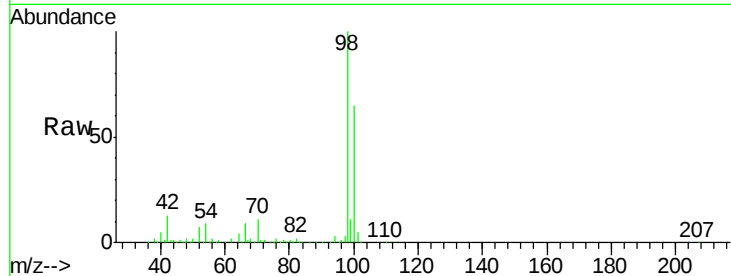
TP-4

Tot Ion: 98 Resp: 347363

Ion Ratio Lower Upper

98 100

100 66.2 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.34

200000

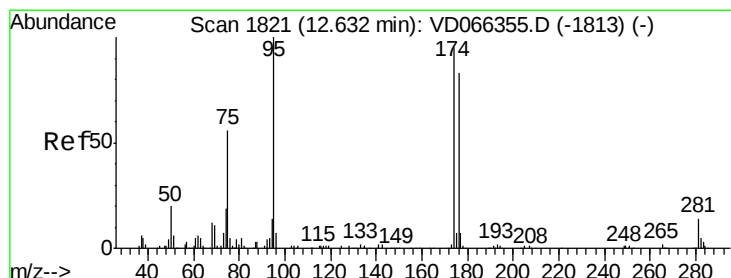
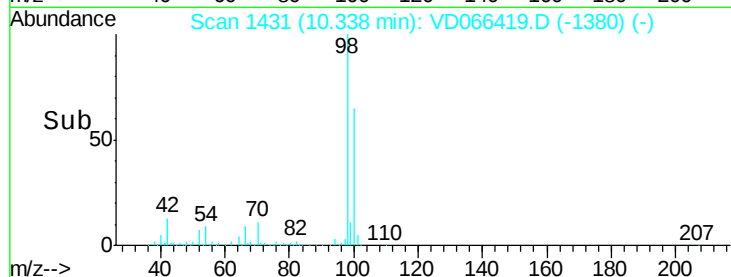
150000

100000

50000

0

Time--> 10.20 10.30 10.40 10.50



#62

4-Bromofluorobenzene

Concen: 48.309 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD066419.D

Acq: 26 Aug 2020 14:37

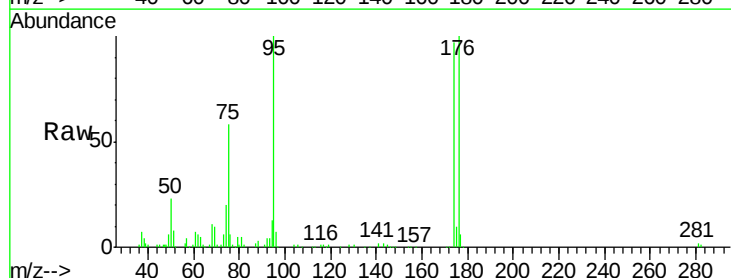
Tgt Ion: 95 Resp: 117408

Ion Ratio Lower Upper

95 100

174 98.1 0.0 183.4

176 96.6 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

12.64

80000

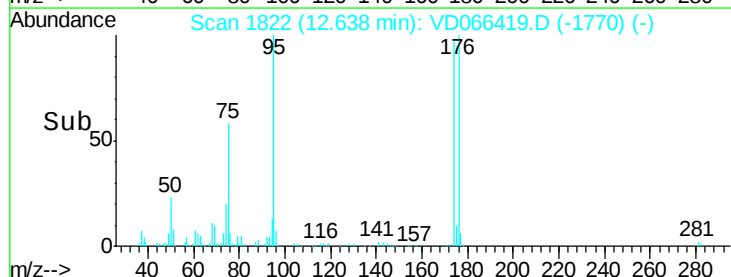
60000

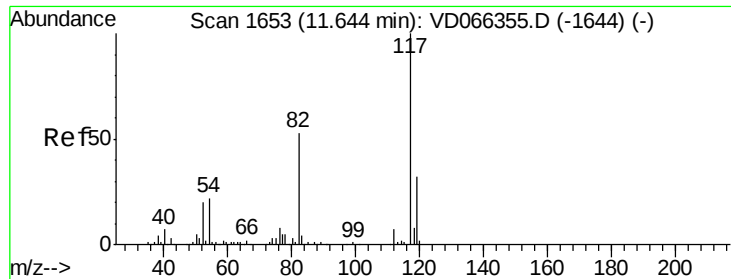
40000

20000

0

Time--> 12.55 12.60 12.65 12.70

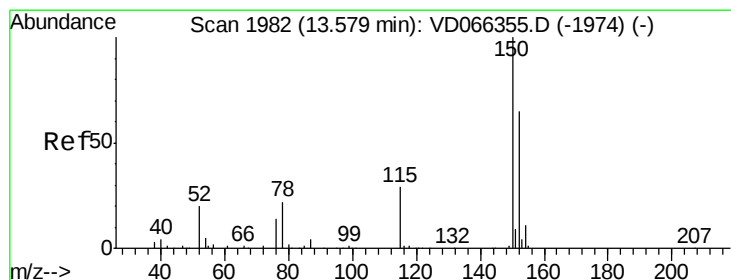
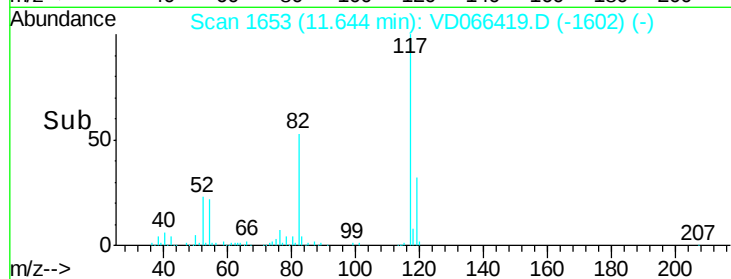
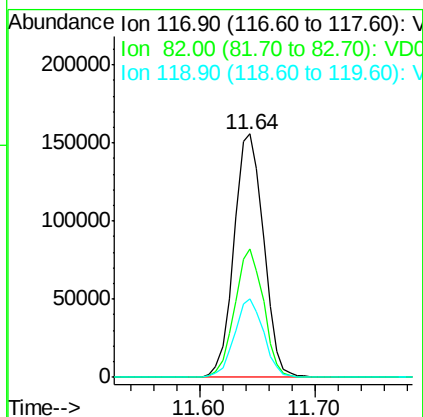
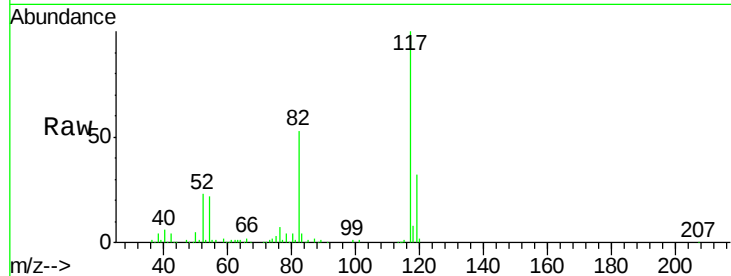




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD066419.D  
Acq: 26 Aug 2020 14:37

Instrument :  
MSVOA\_D  
ClientSampled :  
TP-4

Tot Ion:117 Resp: 276601  
Ion Ratio Lower Upper  
117 100  
82 52.5 42.8 64.2  
119 32.5 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD066419.D  
Acq: 26 Aug 2020 14:37

Tgt Ion:152 Resp: 142927  
Ion Ratio Lower Upper  
152 100  
115 57.3 28.3 85.0  
150 155.2 0.0 343.2

