

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082420\  
 Data File : VD066383.D  
 Acq On : 24 Aug 2020 16:11  
 Operator : VA/SY  
 Sample : L3772-04  
 Misc : 5.7G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 202-986

Quant Time: Aug 25 04:48:05 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  | 230178   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 349823   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 334327   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 159547   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 124859   | 55.33 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 110.66% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 115619   | 52.85 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 105.70% |          |
| 50) Toluene-d8              | 10.33 | 98   | 422167   | 52.75 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 105.50% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 144958   | 51.04 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 102.08% |          |

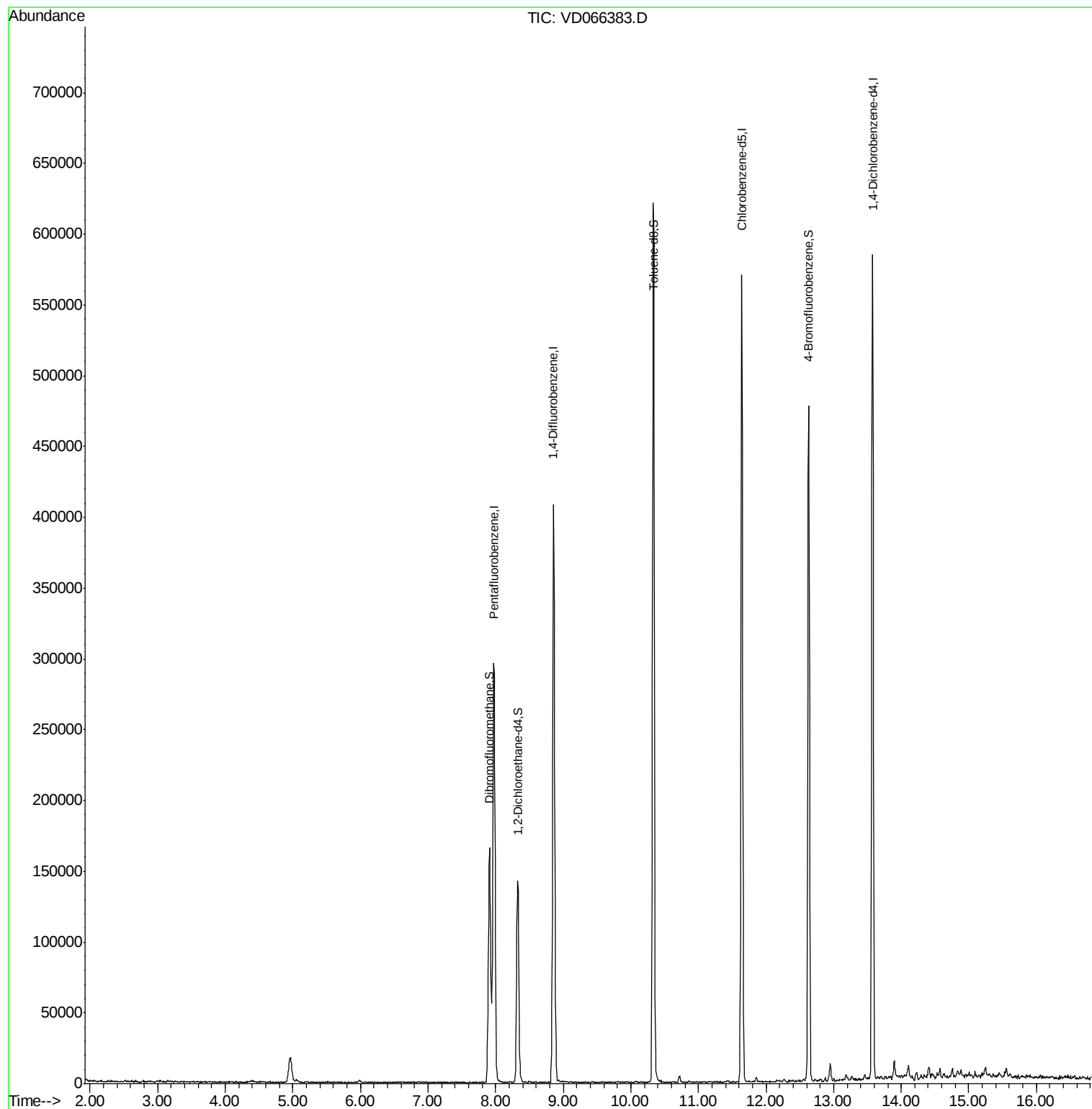
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

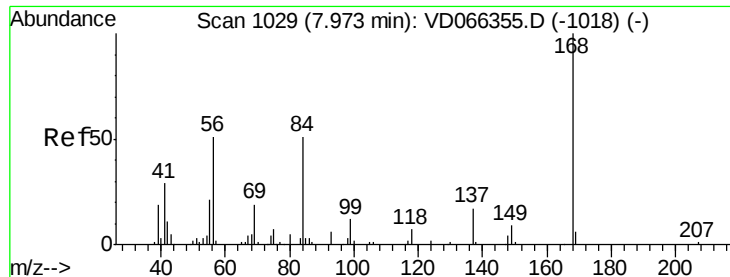
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD066383.D

Acq: 24 Aug 2020 16:11

Instrument :

MSVOA\_D

ClientSampleId :

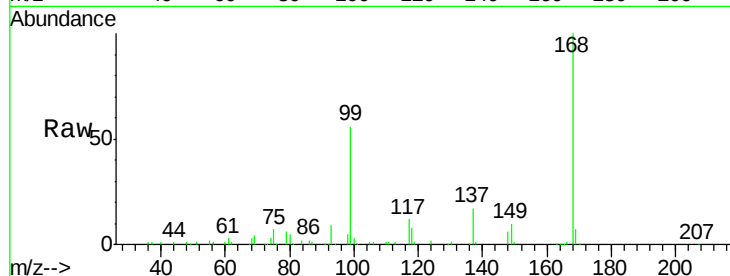
202-986

Tot Ion:168 Resp: 230178

Ion Ratio Lower Upper

168 100

99 56.3 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.97

100000

80000

60000

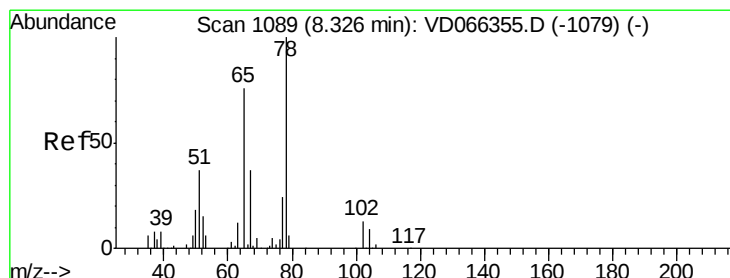
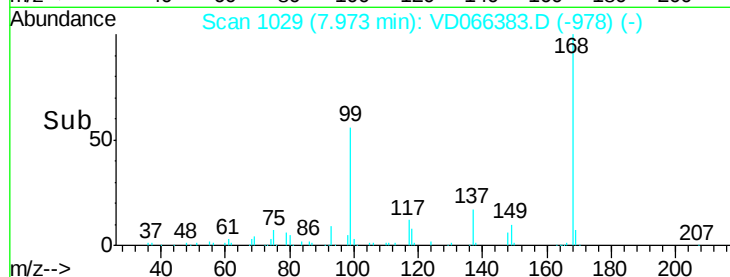
40000

20000

0

Time-->

7.90 8.00 8.10



#33

1,2-Dichloroethane-d4

Concen: 55.329 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VD066383.D

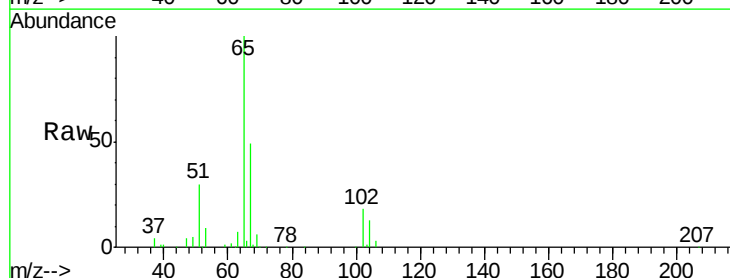
Acq: 24 Aug 2020 16:11

Tgt Ion: 65 Resp: 124859

Ion Ratio Lower Upper

65 100

67 49.1 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

60000

50000

40000

30000

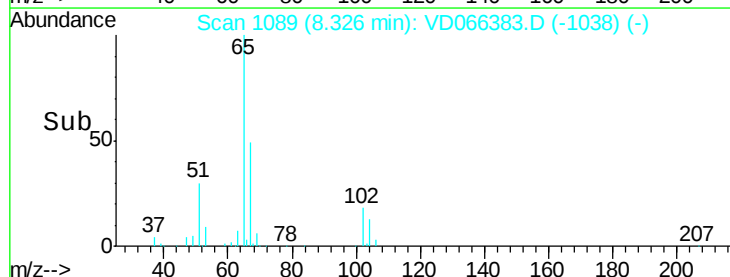
20000

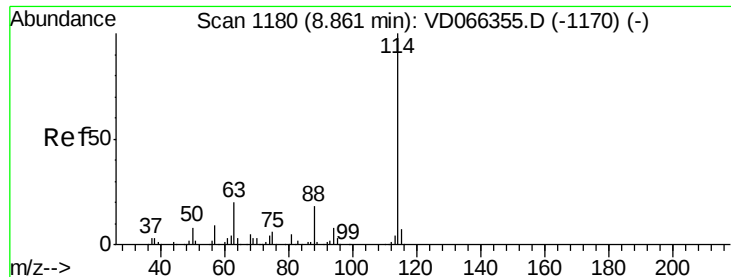
10000

0

Time-->

8.20 8.30 8.40

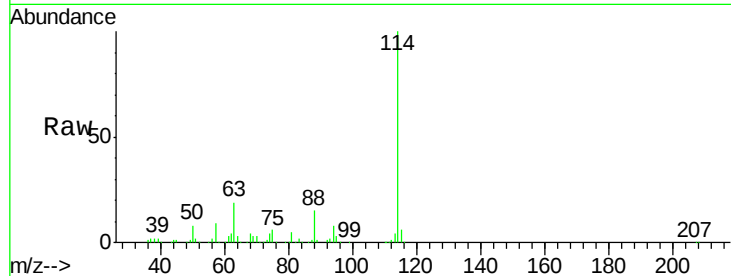




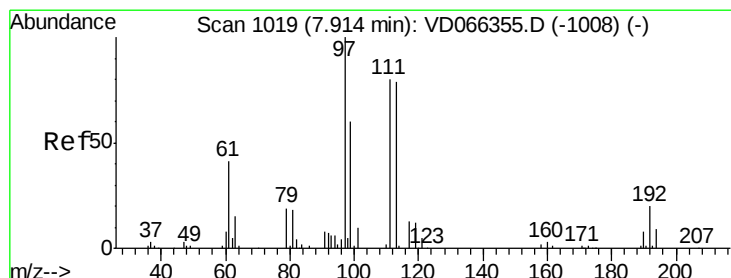
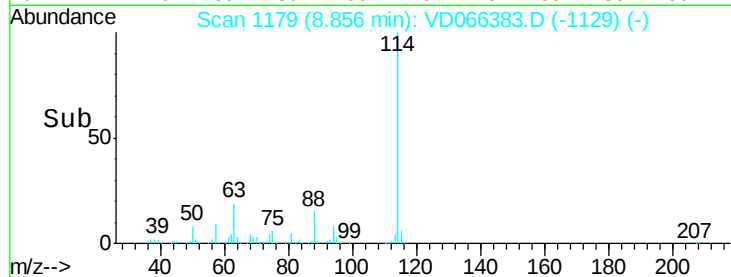
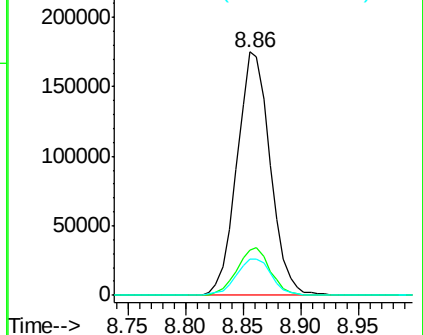
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1179  
 Delta R.T. -0.01 min  
 Lab File: VD066383.D  
 Acq: 24 Aug 2020 16:11

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 202-986

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 18.5  | 0.0   | 40.8  |
| 88      | 14.9  | 0.0   | 35.4  |

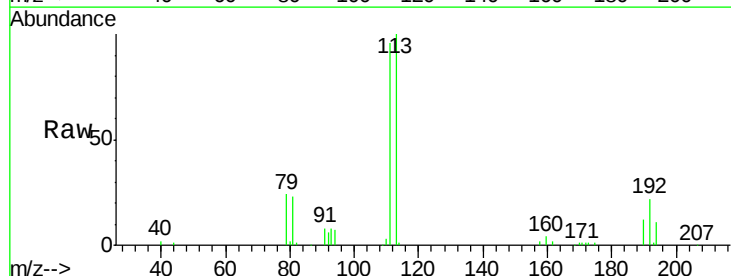


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

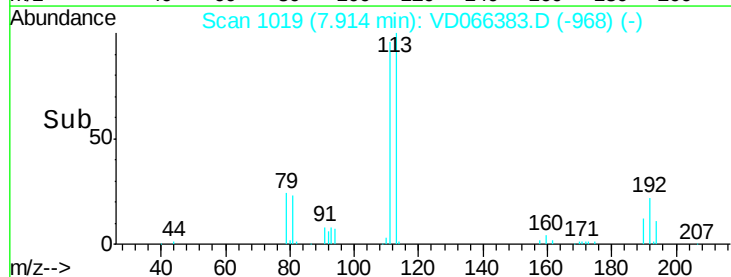
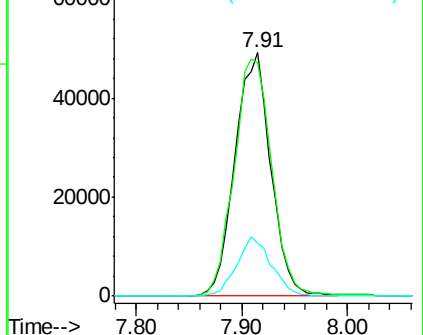


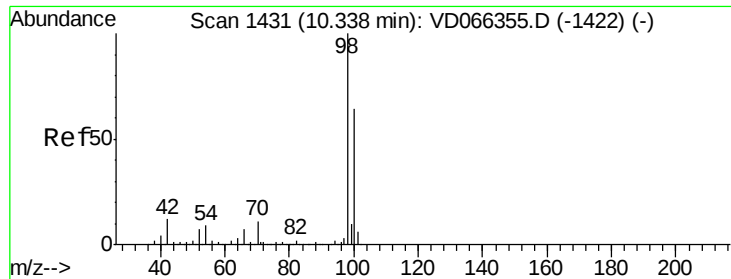
#35  
 Dibromofluoromethane  
 Concen: 52.855 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. 0.00 min  
 Lab File: VD066383.D  
 Acq: 24 Aug 2020 16:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.5 | 80.3  | 120.5 |
| 192     | 23.5  | 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





#50

Toluene-d8

Concen: 52.747 ug/l

RT: 10.33 min Scan# 1430

Delta R.T. -0.01 min

Lab File: VD066383.D

Acq: 24 Aug 2020 16:11

Instrument :

MSVOA\_D

ClientSampleId :

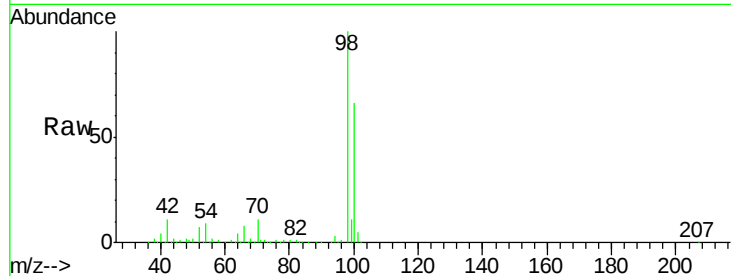
202-986

Tot Ion: 98 Resp: 422167

Ion Ratio Lower Upper

98 100

100 65.9 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VD066355.D (-1422) (-)

Ion 100.00 (99.70 to 100.70): VD066355.D (-1422) (-)

10.33

250000

200000

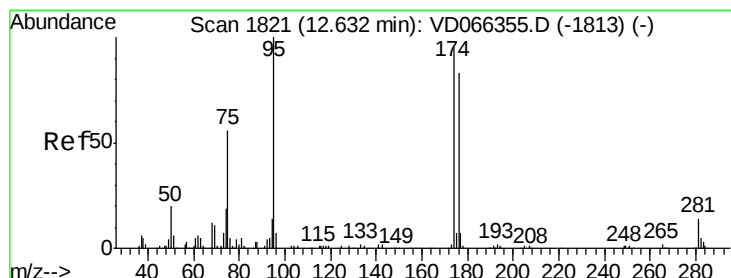
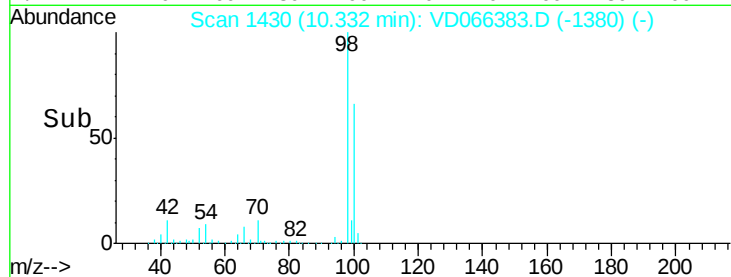
150000

100000

50000

0

Time--> 10.20 10.30 10.40 10.50



#62

4-Bromofluorobenzene

Concen: 51.041 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD066383.D

Acq: 24 Aug 2020 16:11

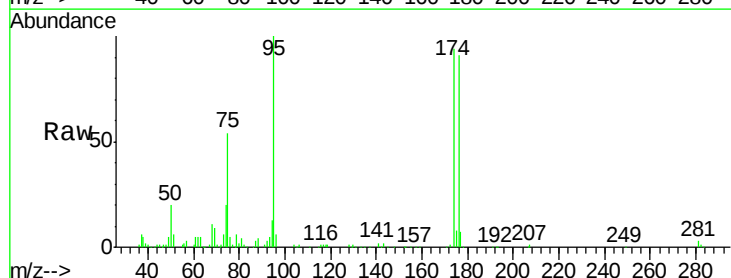
Tgt Ion: 95 Resp: 144958

Ion Ratio Lower Upper

95 100

174 96.0 0.0 183.4

176 90.7 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VD066355.D (-1813) (-)

Ion 173.80 (173.50 to 174.50): VD066355.D (-1813) (-)

Ion 175.80 (175.50 to 176.50): VD066355.D (-1813) (-)

12.63

120000

100000

80000

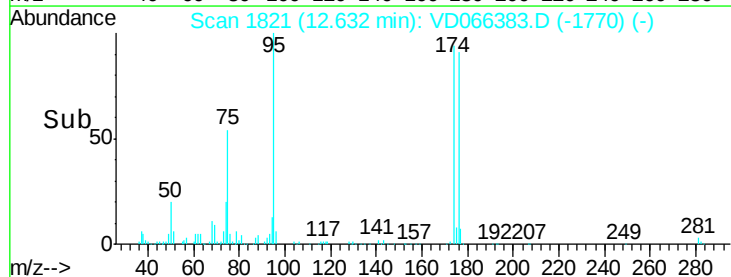
60000

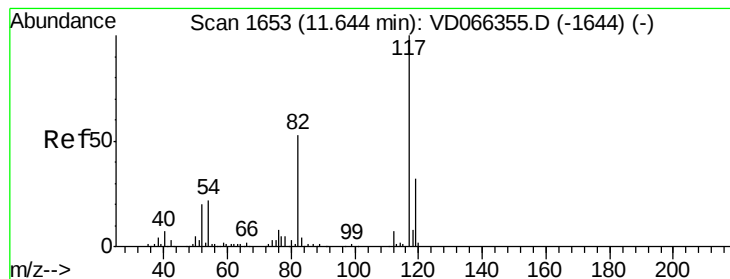
40000

20000

0

Time--> 12.60 12.70





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD066383.D

Acq: 24 Aug 2020 16:11

Instrument :

MSVOA\_D

ClientSampleId :

202-986

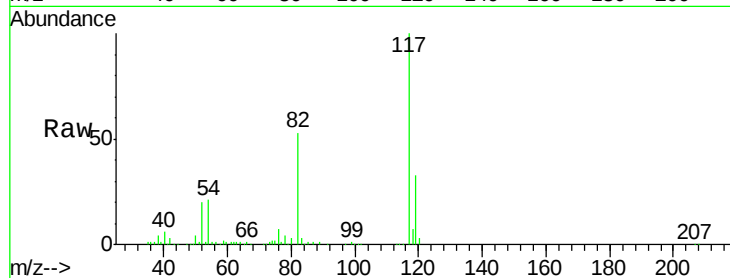
Tot Ion:117 Resp: 334327

Ion Ratio Lower Upper

117 100

82 53.0 42.8 64.2

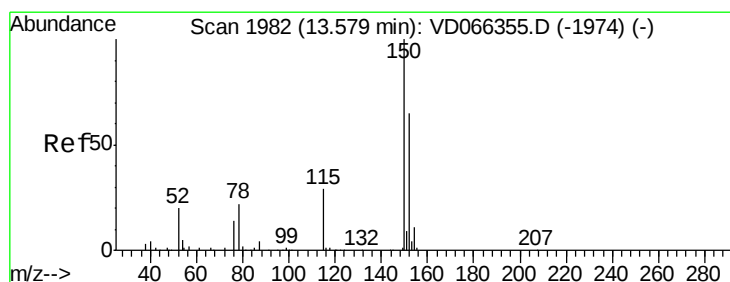
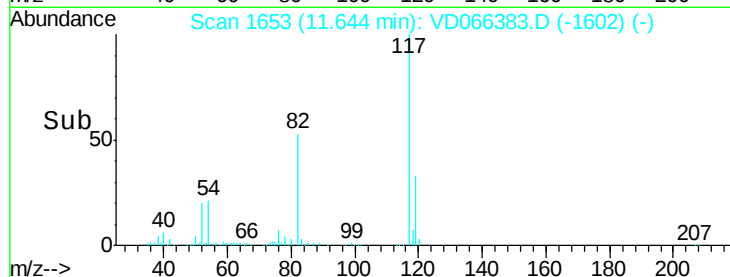
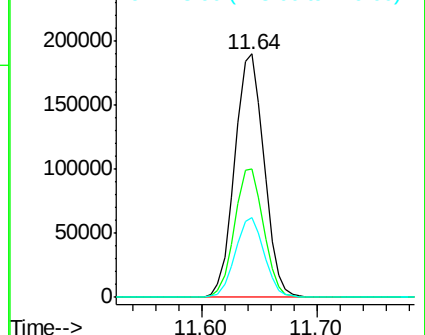
119 32.7 25.8 38.8



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: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066383.D

Acq: 24 Aug 2020 16:11

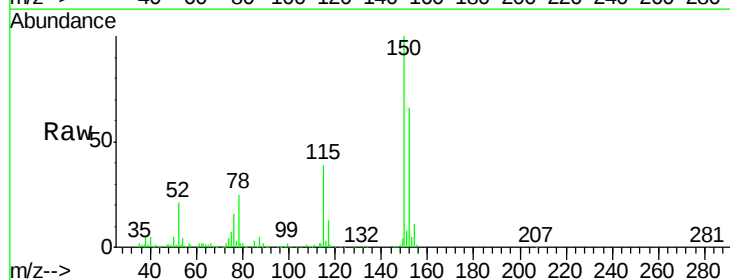
Tgt Ion:152 Resp: 159547

Ion Ratio Lower Upper

152 100

115 57.7 28.3 85.0

150 157.2 0.0 343.2



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

