

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020520\  
 Data File : VD065072.D  
 Acq On : 05 Feb 2020 19:08  
 Operator : VA/SY  
 Sample : L1408-13  
 Misc : 5.03G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SHORE-RD-PATH-BH-04-A

Quant Time: Feb 06 06:12:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D020520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 05 15:53:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 22241    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 36055    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.66 | 117  | 38978    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 18078    | 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   | 16603    | 87.83 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 175.66% |          |
| 35) Dibromofluoromethane    | 7.93  | 113  | 13542    | 67.32 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 134.64% |          |
| 50) Toluene-d8              | 10.34 | 98   | 43022    | 53.73 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 107.46% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 15710    | 61.92 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 123.84% |          |

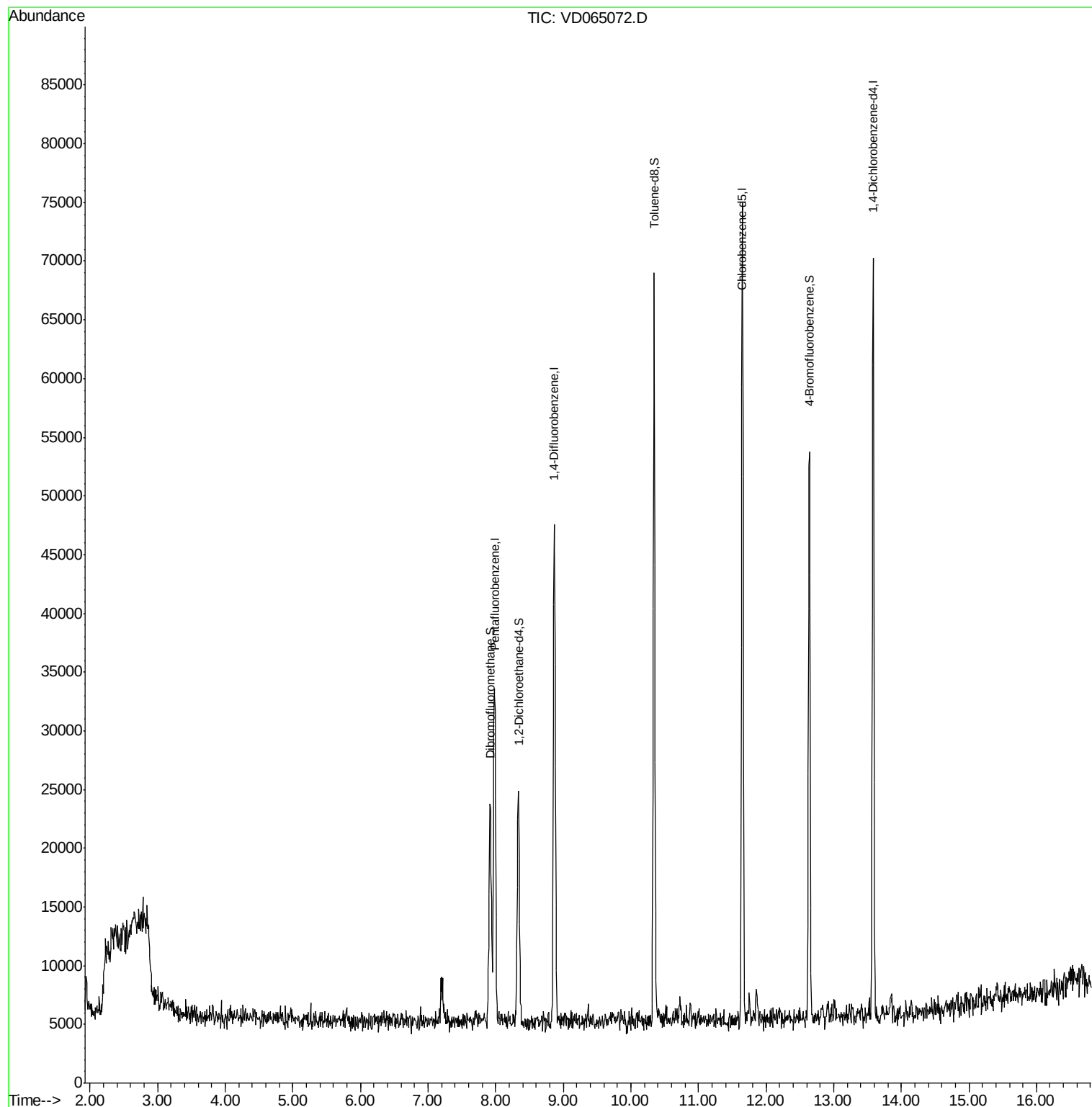
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

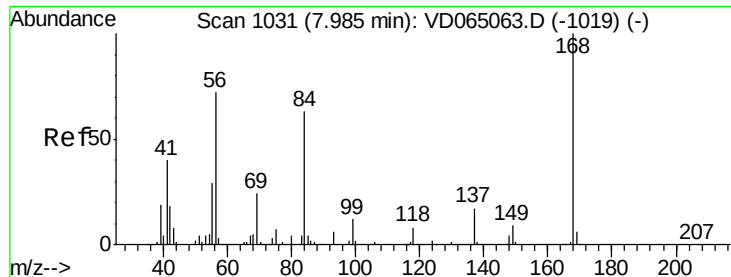
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
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Quant Title : SW846 8260  
QLast Update : Wed Feb 05 15:53:00 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VD065072.D

Acq: 05 Feb 2020 19:08

Instrument :

MSVOA\_D

ClientSampleId :

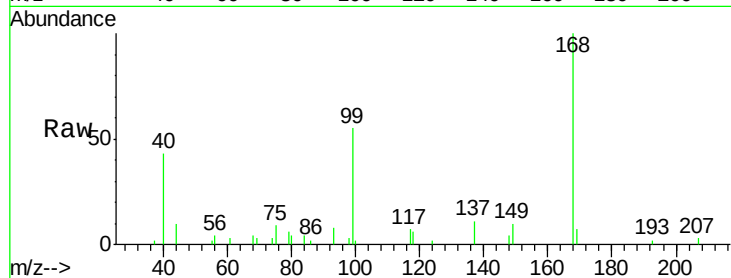
SHORE-RD-PATH-BH-04-A

Tot Ion:168 Resp: 22241

Ion Ratio Lower Upper

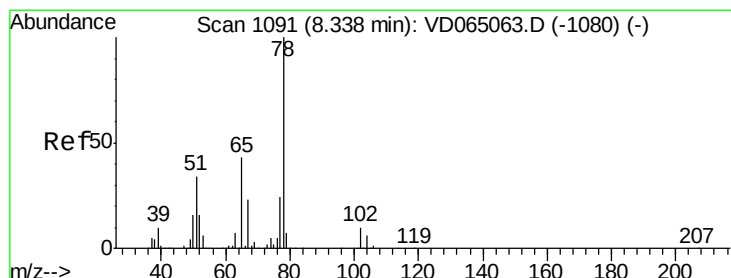
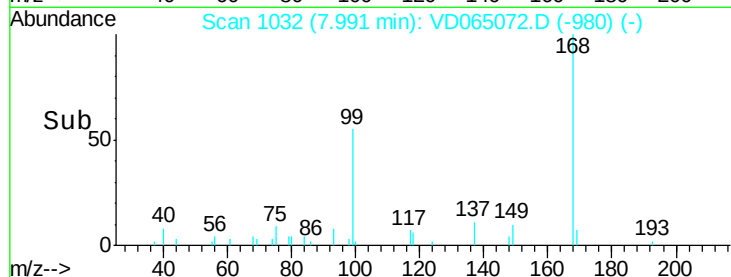
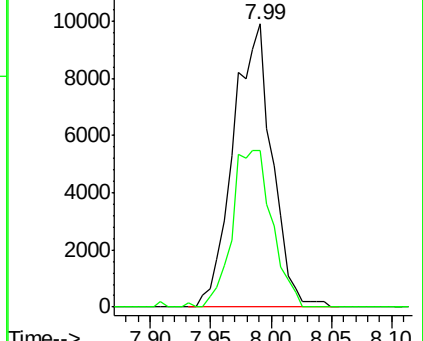
168 100

99 55.3 41.0 61.6



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: 87.833 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065072.D

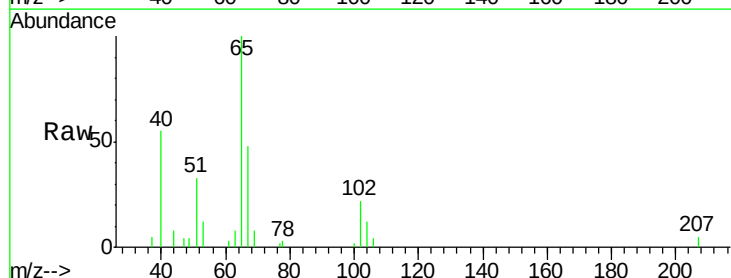
Acq: 05 Feb 2020 19:08

Tgt Ion: 65 Resp: 16603

Ion Ratio Lower Upper

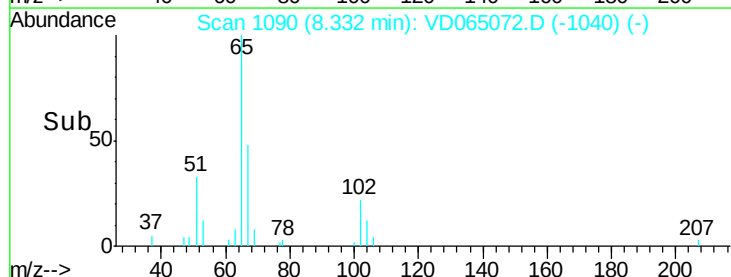
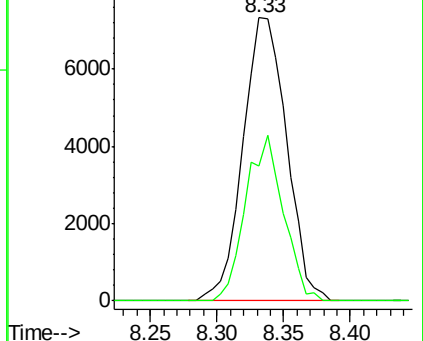
65 100

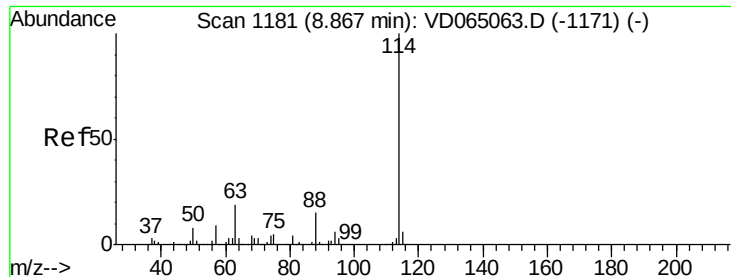
67 50.6 0.0 105.8



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: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD065072.D

Acq: 05 Feb 2020 19:08

Instrument :

MSVOA\_D

ClientSampleId :

SHORE-RD-PATH-BH-04-A

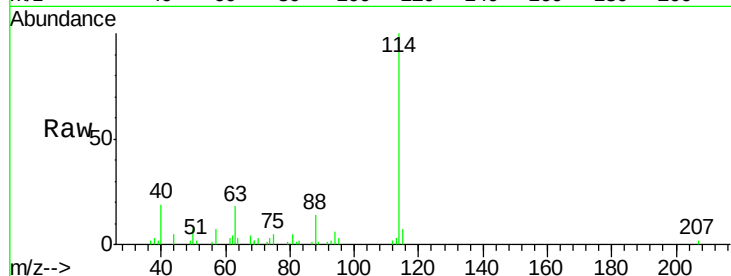
Tot Ion:114 Resp: 36055

Ion Ratio Lower Upper

114 100

63 18.3 0.0 38.8

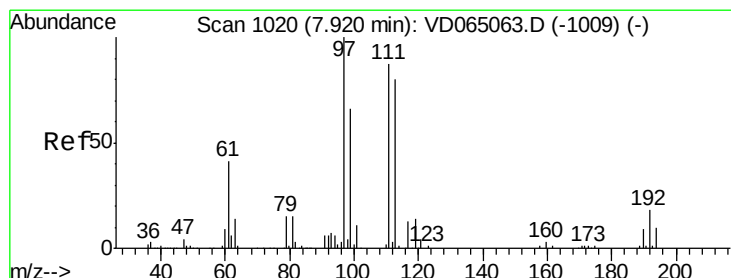
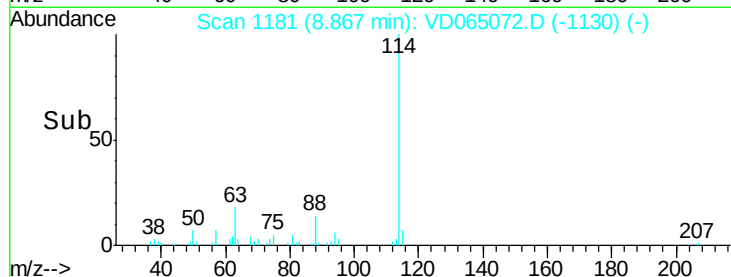
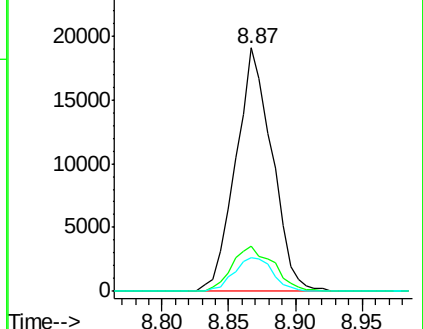
88 13.6 0.0 29.6



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: 67.318 ug/l

RT: 7.93 min Scan# 1021

Delta R.T. 0.01 min

Lab File: VD065072.D

Acq: 05 Feb 2020 19:08

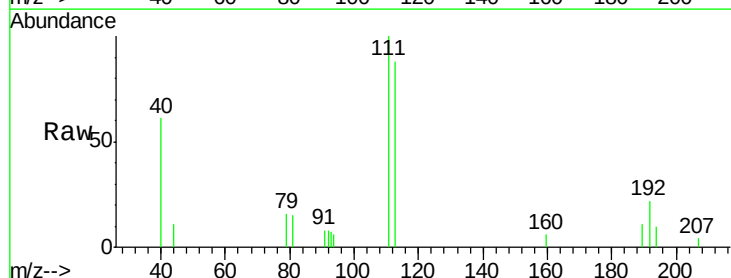
Tgt Ion:113 Resp: 13542

Ion Ratio Lower Upper

113 100

111 104.3 83.1 124.7

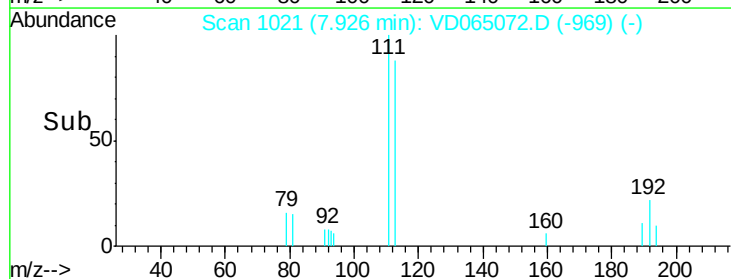
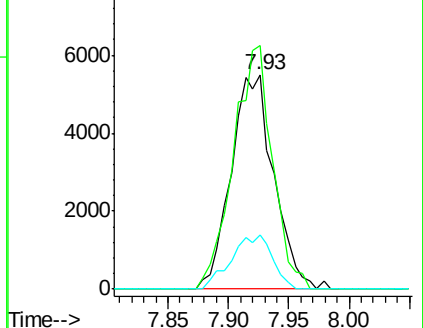
192 24.4 18.1 27.1

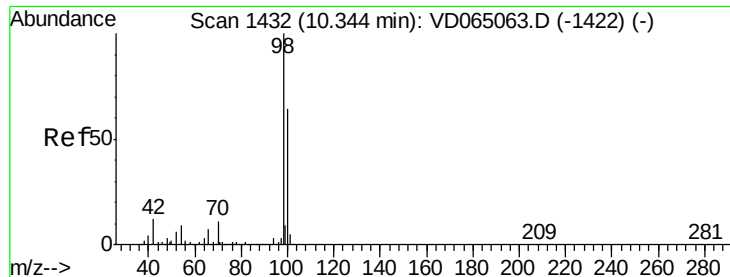


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 53.731 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD065072.D

Acq: 05 Feb 2020 19:08

Instrument :

MSVOA\_D

ClientSampleId :

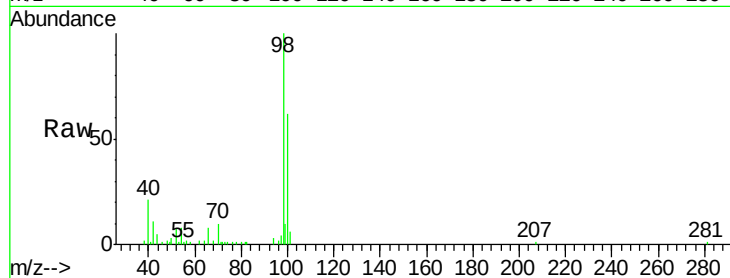
SHORE-RD-PATH-BH-04-A

Tot Ion: 98 Resp: 43022

Ion Ratio Lower Upper

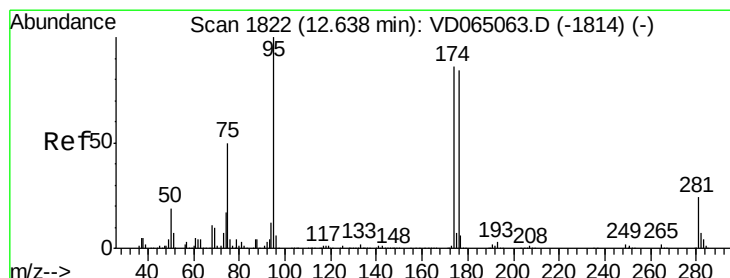
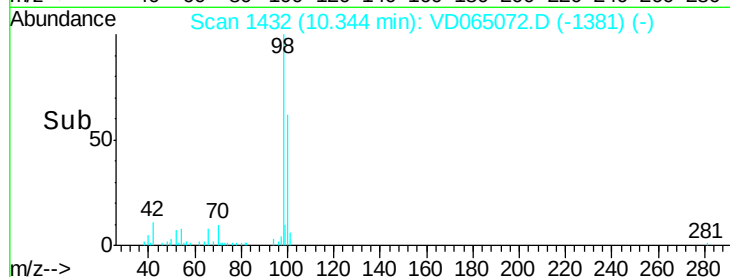
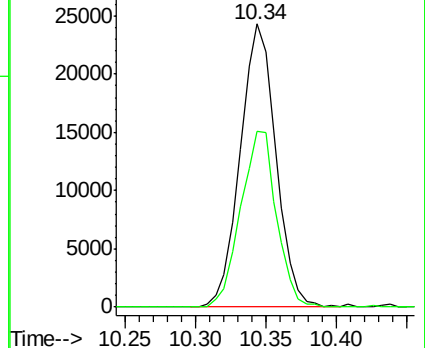
98 100

100 62.1 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 61.921 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.01 min

Lab File: VD065072.D

Acq: 05 Feb 2020 19:08

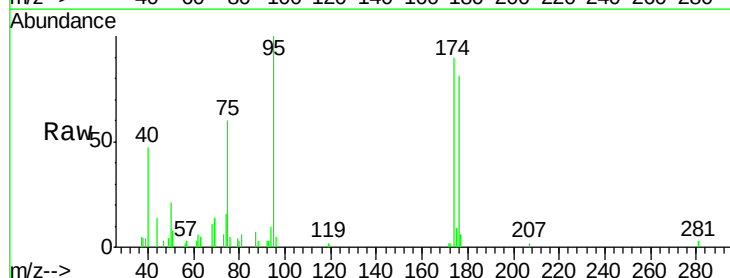
Tgt Ion: 95 Resp: 15710

Ion Ratio Lower Upper

95 100

174 95.4 0.0 180.0

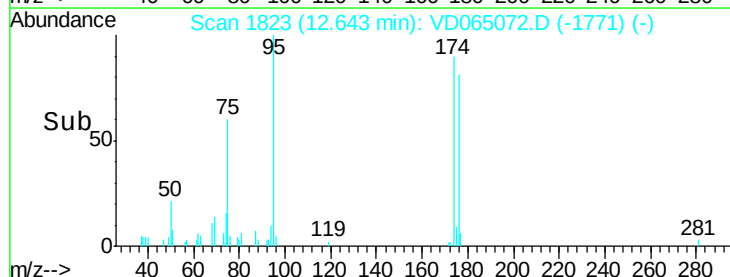
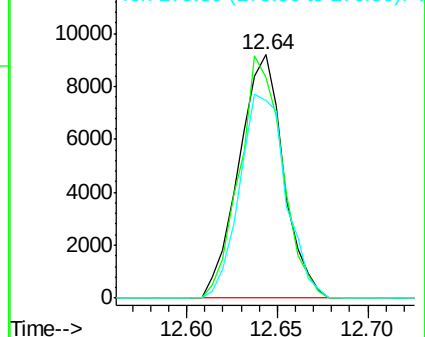
176 86.9 0.0 173.2

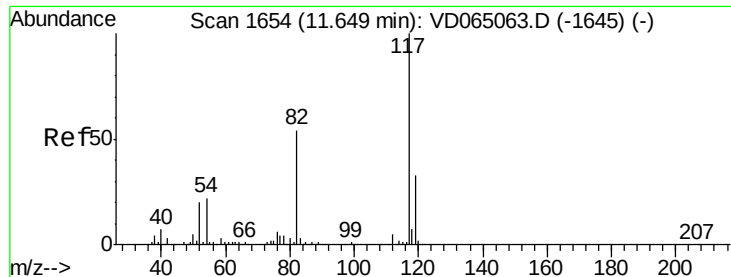


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

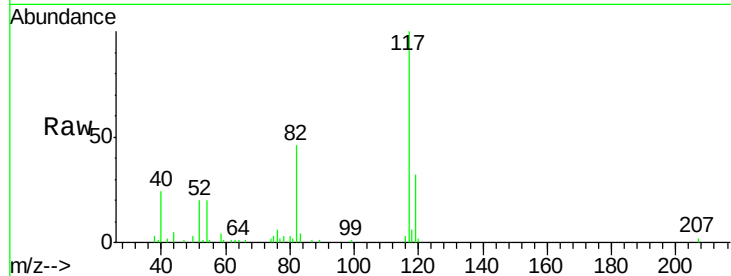




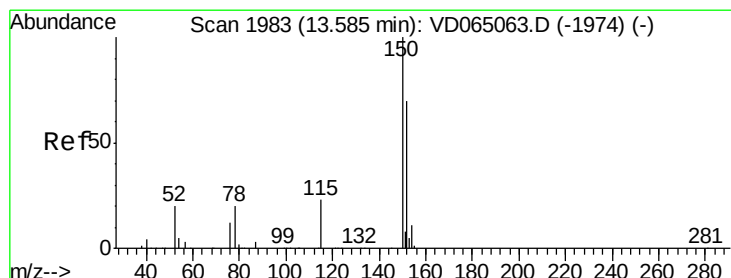
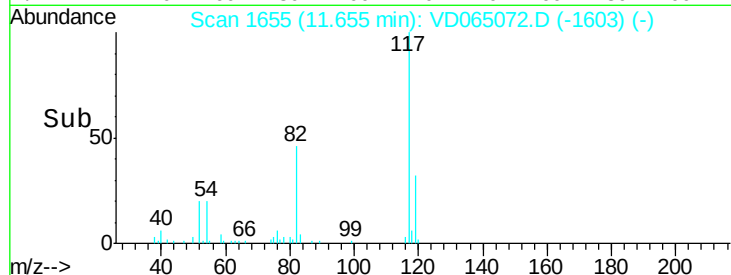
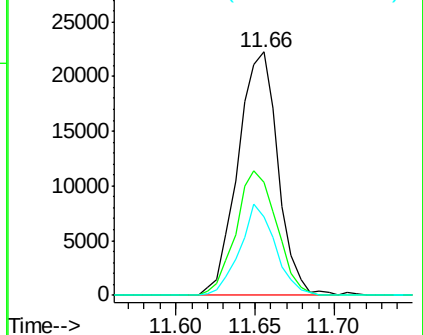
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.66 min Scan# 1655  
Delta R.T. 0.01 min  
Lab File: VD065072.D  
Acq: 05 Feb 2020 19:08

Instrument :  
MSVOA\_D  
ClientSampleId :  
SHORE-RD-PATH-BH-04-A

Tot Ion:117 Resp: 38978  
Ion Ratio Lower Upper  
117 100  
82 46.3 43.1 64.7  
119 32.3 26.0 39.0

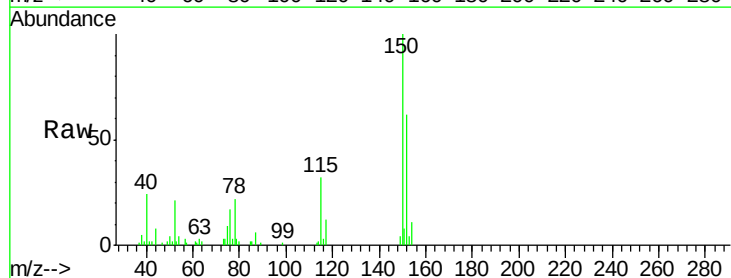


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. -0.00 min  
Lab File: VD065072.D  
Acq: 05 Feb 2020 19:08

Tgt Ion:152 Resp: 18078  
Ion Ratio Lower Upper  
152 100  
115 53.4 27.5 82.4  
150 161.8 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

