

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD073119\  
 Data File : VD063278.D  
 Acq On : 31 Jul 2019 14:53  
 Operator : VA/AP  
 Sample : K4074-08  
 Misc : 3.93g/5ml/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SS-08\_072919

Quant Time: Aug 01 04:29:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:04:50 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 988319   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 1285561  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 994684   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 484744   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 7.44   | 65  | 442862   | 40.38 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 80.76% |      |
| 35) Dibromofluoromethane    | 6.92   | 113 | 498937   | 45.46 | ug/l   | 0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.92% |      |
| 50) Toluene-d8              | 10.40  | 98  | 1010725  | 41.15 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 82.30% |      |
| 62) 4-Bromofluorobenzene    | 13.55  | 95  | 400973   | 35.82 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 71.64% |      |

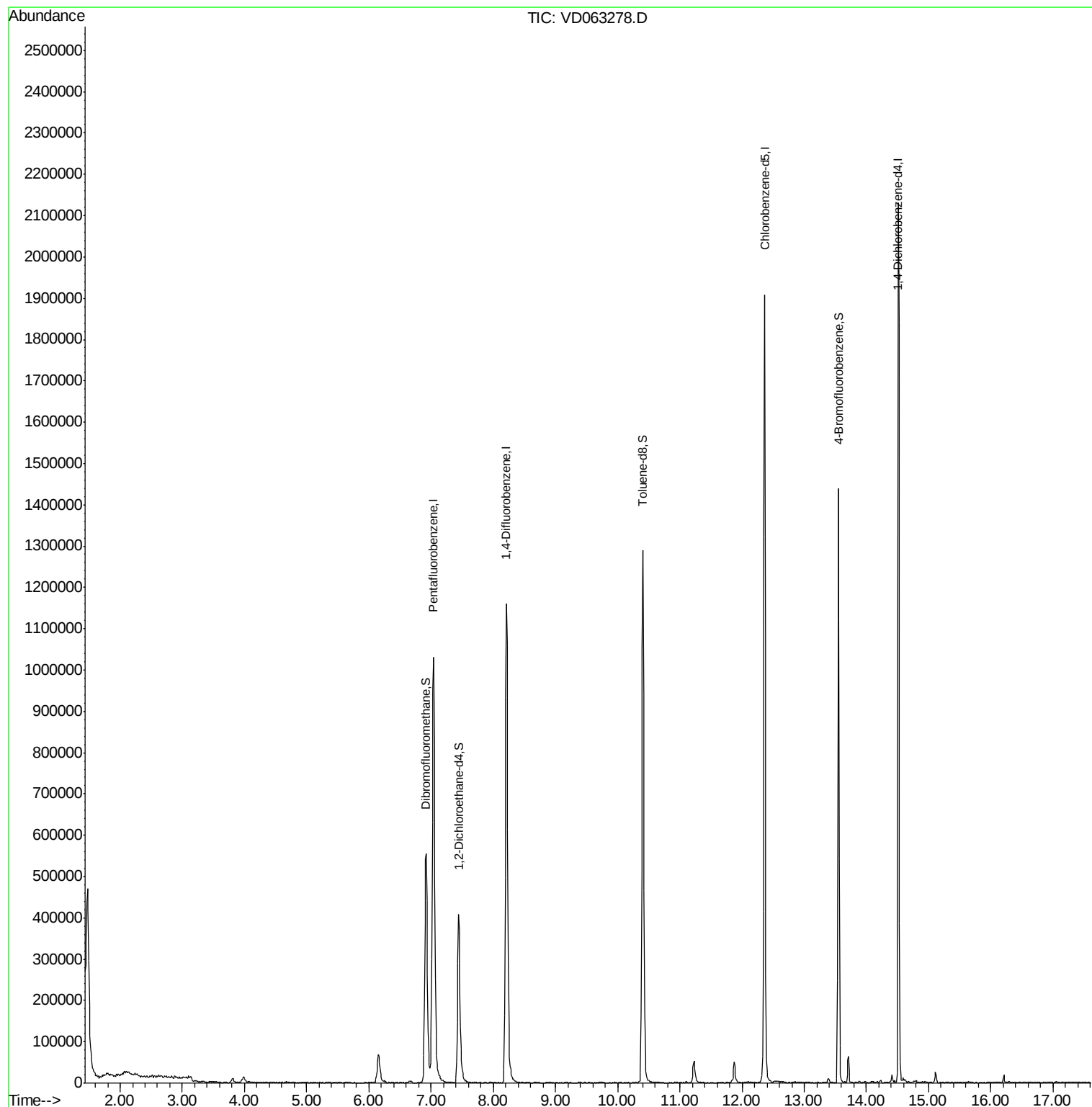
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

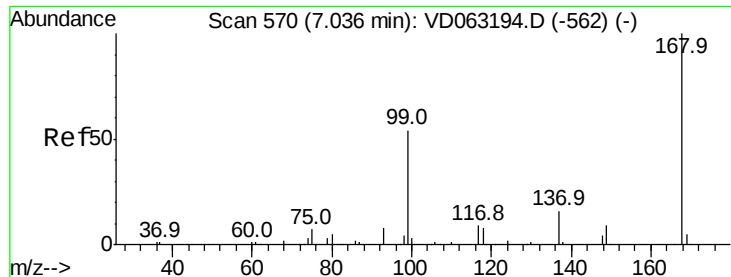
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Jul 30 03:04:50 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

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Instrument :

MSVOA\_D

ClientSampleId :

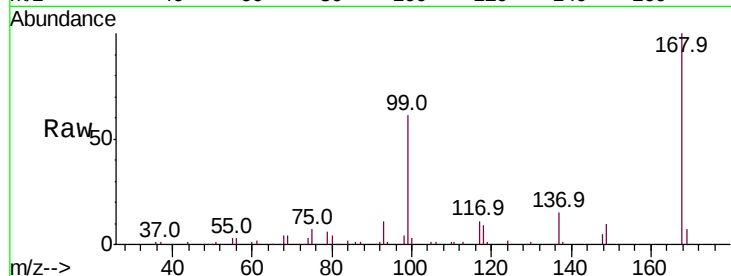
SS-08\_072919

Tot Ion:168 Resp: 988319

Ion Ratio Lower Upper

168 100

99 60.5 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

400000

300000

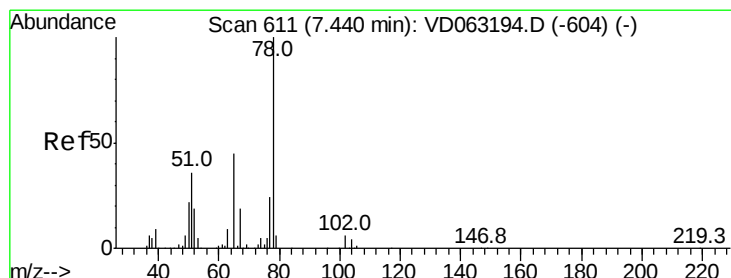
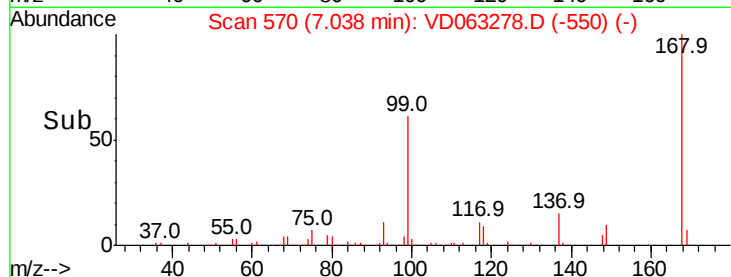
200000

100000

0

Time-->

6.90 7.00 7.10 7.20



#33

1,2-Dichloroethane-d4

Concen: 40.384 ug/l

RT: 7.44 min Scan# 611

Delta R.T. 0.00 min

Lab File: VD063278.D

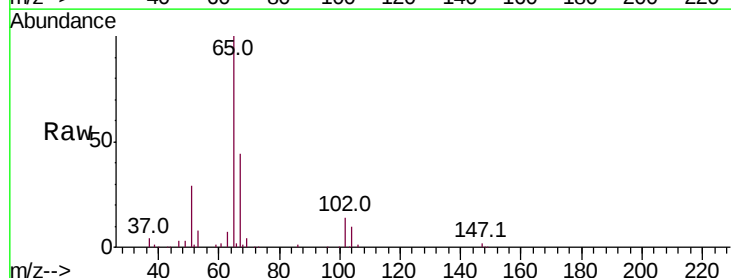
Acq: 31 Jul 2019 14:53

Tgt Ion: 65 Resp: 442862

Ion Ratio Lower Upper

65 100

67 44.3 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.44

200000

150000

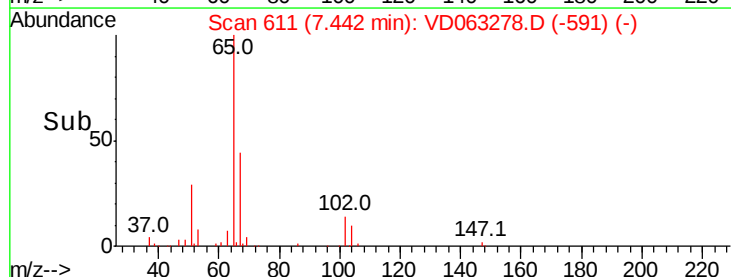
100000

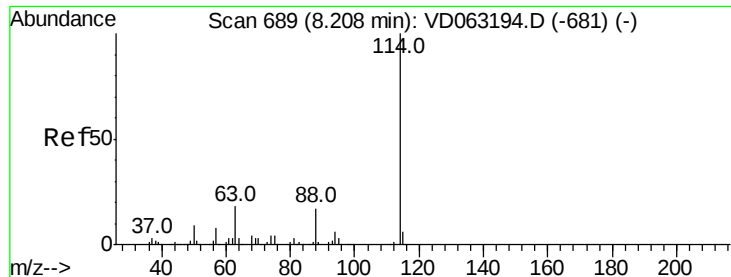
50000

0

Time-->

7.30 7.40 7.50 7.60





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. 0.00 min

Lab File: VD063278.D

Acq: 31 Jul 2019 14:53

Instrument :

MSVOA\_D

ClientSampleId :

SS-08\_072919

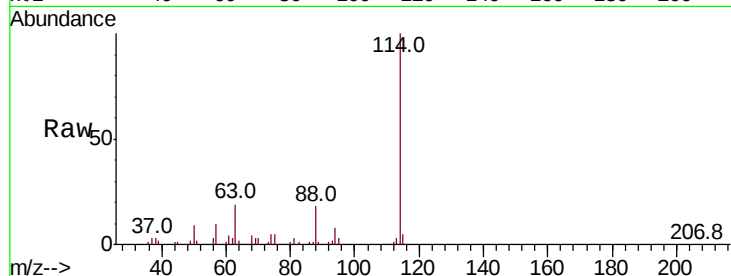
Tot Ion:114 Resp: 1285561

Ion Ratio Lower Upper

114 100

63 19.0 0.0 35.2

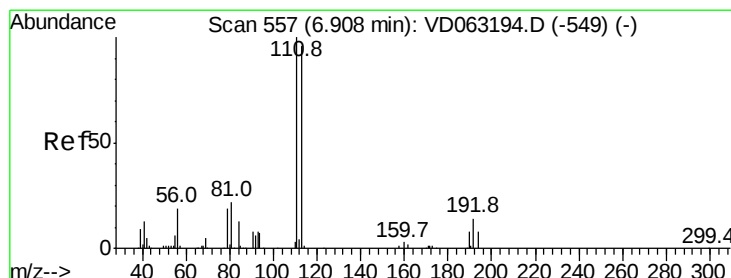
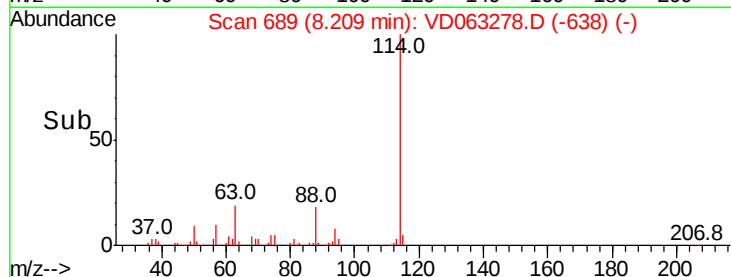
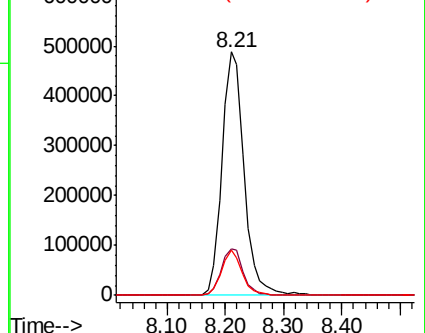
88 18.4 0.0 34.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 45.457 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.01 min

Lab File: VD063278.D

Acq: 31 Jul 2019 14:53

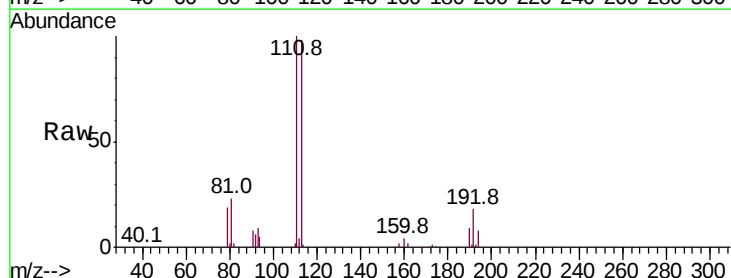
Tgt Ion:113 Resp: 498937

Ion Ratio Lower Upper

113 100

111 102.2 83.2 124.8

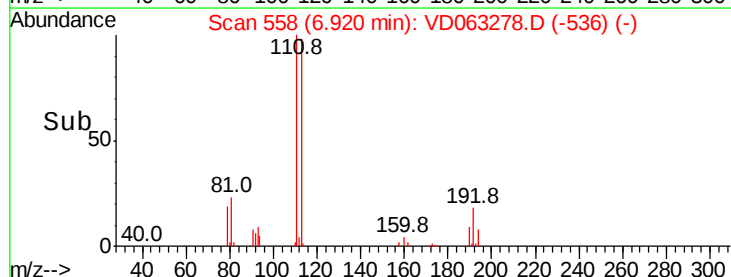
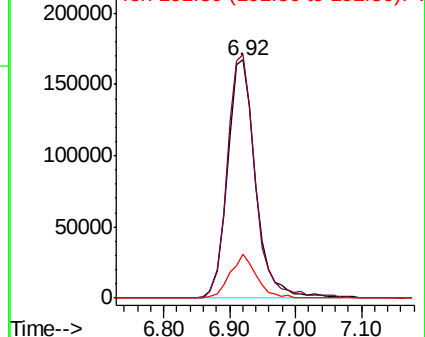
192 18.3 11.8 17.8#

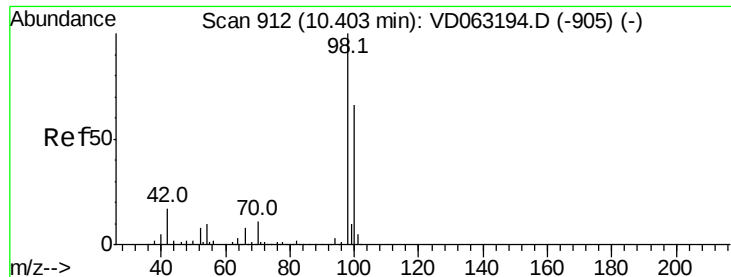


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

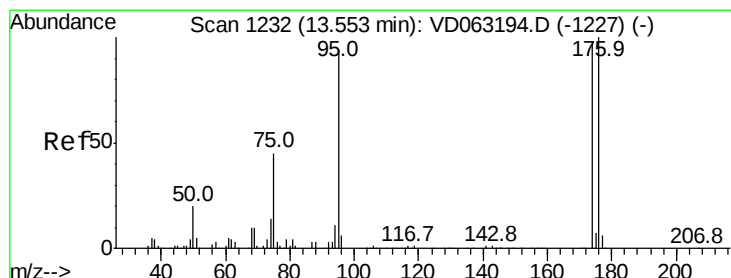
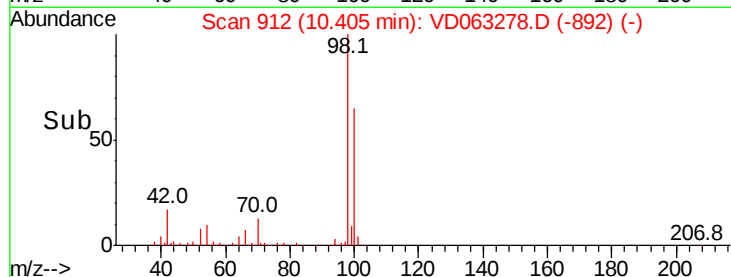
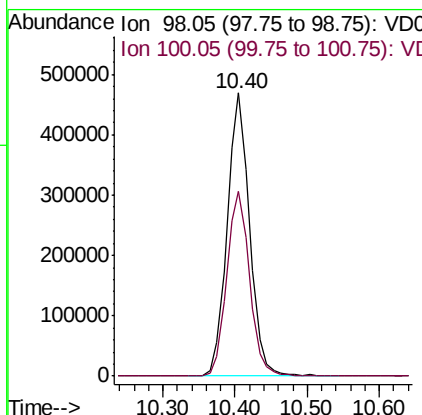
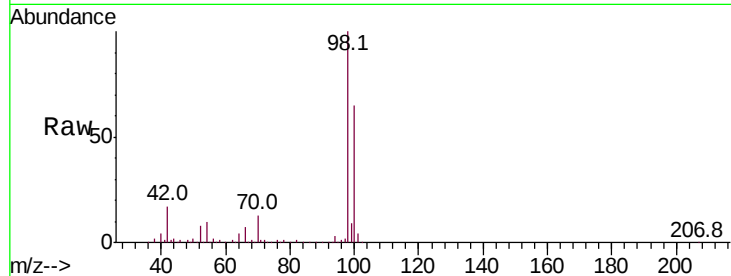




#50  
Toluene-d8  
Concen: 41.146 ug/l  
RT: 10.40 min Scan# 912  
Delta R.T. 0.00 min  
Lab File: VD063278.D  
Acq: 31 Jul 2019 14:53

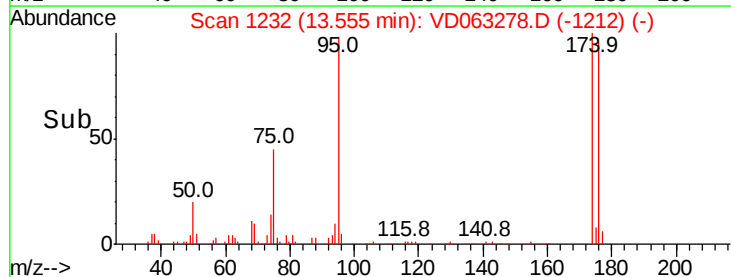
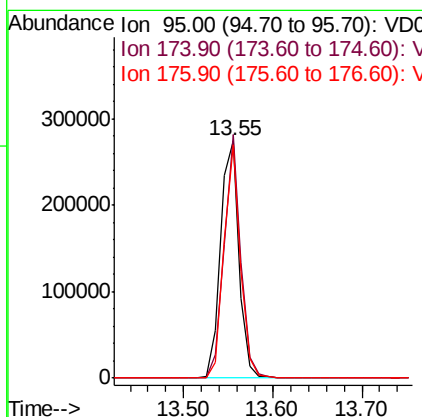
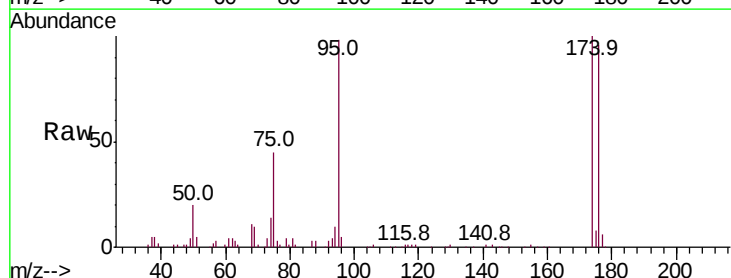
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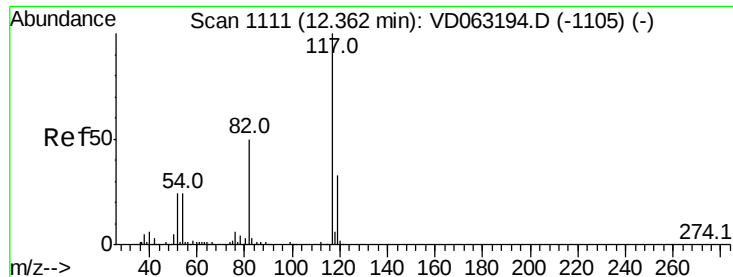
Tot Ion: 98 Resp: 1010725  
Ion Ratio Lower Upper  
98 100  
100 65.3 53.2 79.8



#62  
4-Bromofluorobenzene  
Concen: 35.821 ug/l  
RT: 13.55 min Scan# 1232  
Delta R.T. 0.00 min  
Lab File: VD063278.D  
Acq: 31 Jul 2019 14:53

Tgt Ion: 95 Resp: 400973  
Ion Ratio Lower Upper  
95 100  
174 102.5 0.0 205.4  
176 98.3 0.0 211.8

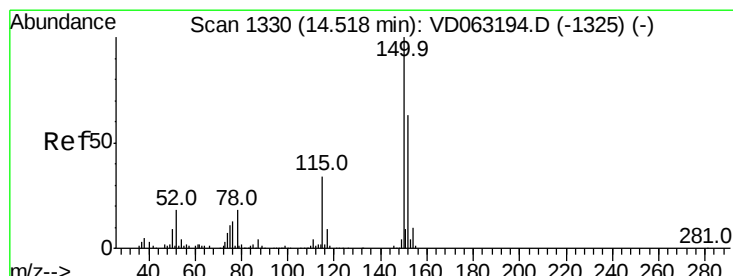
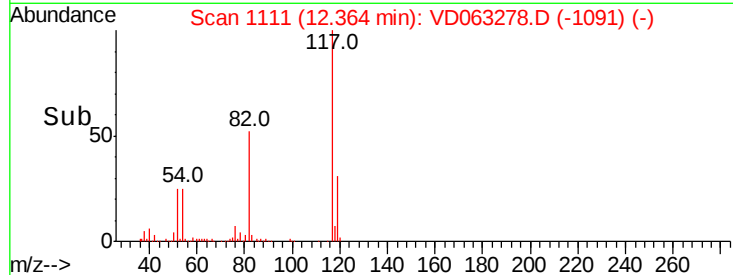
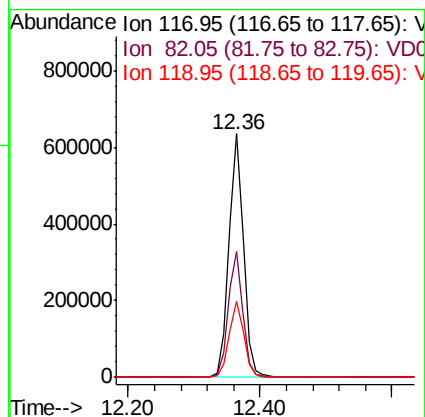
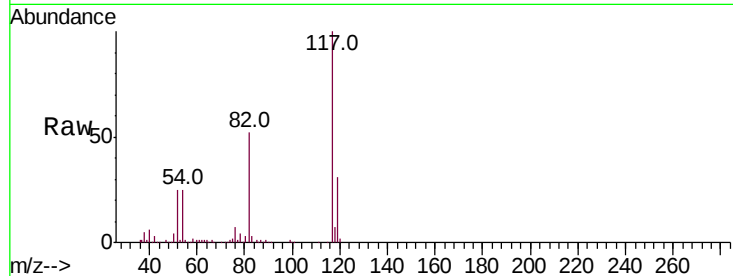




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.36 min Scan# 1111  
Delta R.T. 0.00 min  
Lab File: VD063278.D  
Acq: 31 Jul 2019 14:53

Instrument :  
MSVOA\_D  
ClientSampleId :  
SS-08\_072919

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 51.9  | 40.1  | 60.1  |
| 119     | 31.2  | 26.5  | 39.7  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. 0.00 min  
Lab File: VD063278.D  
Acq: 31 Jul 2019 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 50.8  | 27.5  | 82.4  |
| 150     | 158.9 | 0.0   | 320.6 |

