

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020119\  
 Data File : VD060825.D  
 Acq On : 1 Feb 2019 18:01  
 Operator : VA/AP  
 Sample : K1297-06RE  
 Misc : 4.61µl/5ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 A0C4-SS1RE

Quant Time: Feb 02 02:00:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D012819S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 29 13:53:55 2019  
 Response via : Initial Calibration

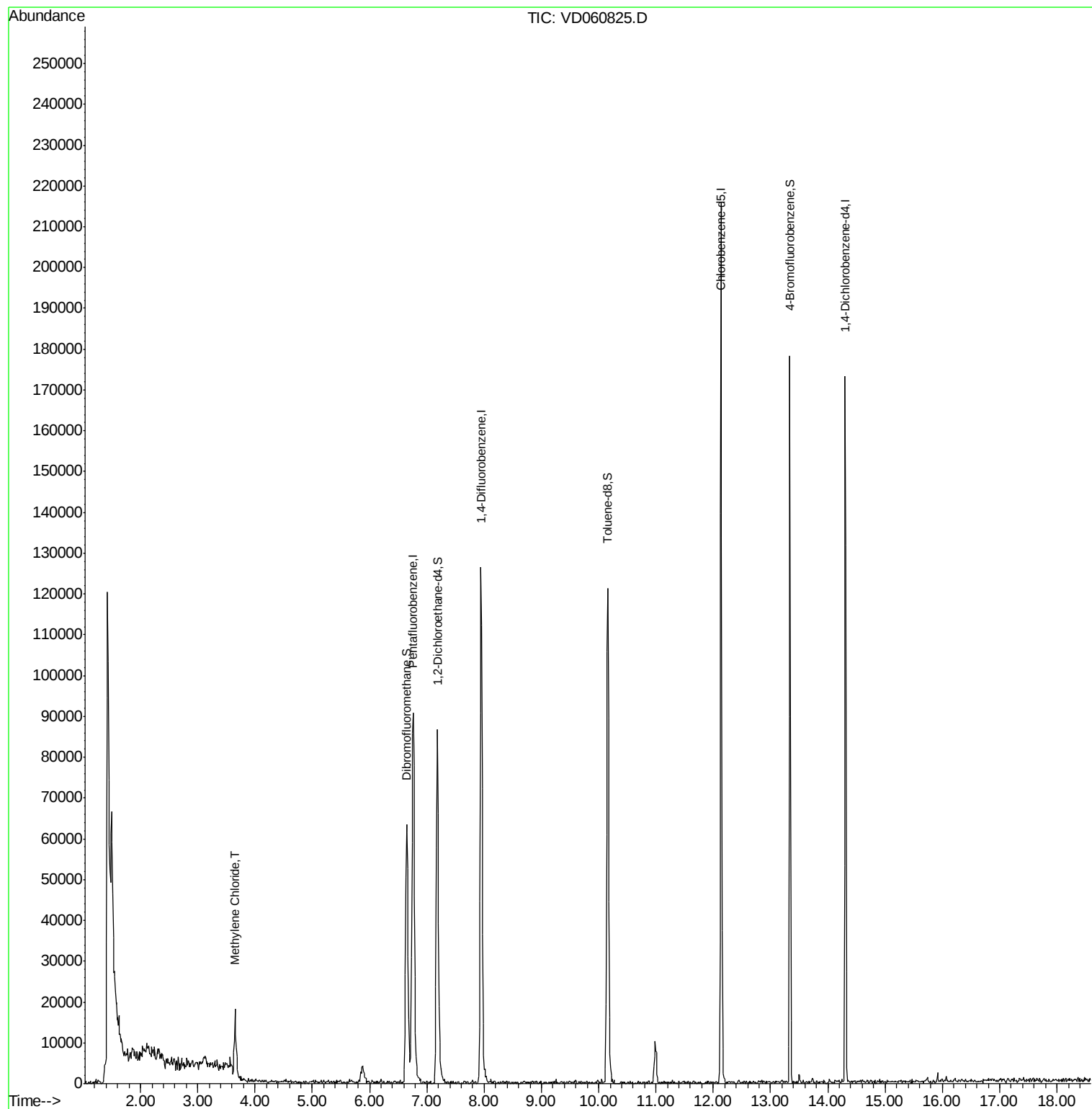
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|---------|-----------|
| 1) Pentafluorobenzene       | 6.76  | 168  | 81278    | 50.00 | ug/l    | -0.03     |
| 34) 1,4-Difluorobenzene     | 7.94  | 114  | 116853   | 50.00 | ug/l    | -0.03     |
| 63) Chlorobenzene-d5        | 12.14 | 117  | 96228    | 50.00 | ug/l    | -0.02     |
| 72) 1,4-Dichlorobenzene-d4  | 14.30 | 152  | 32682    | 50.00 | ug/l    | -0.02     |
| System Monitoring Compounds |       |      |          |       |         |           |
| 33) 1,2-Dichloroethane-d4   | 7.19  | 65   | 108049   | 86.71 | ug/l    | -0.03     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 173.42% |           |
| 35) Dibromofluoromethane    | 6.64  | 113  | 58086    | 51.83 | ug/l    | -0.03     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.66% |           |
| 50) Toluene-d8              | 10.16 | 98   | 95933    | 36.66 | ug/l    | -0.03     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 73.32%  |           |
| 62) 4-Bromofluorobenzene    | 13.34 | 95   | 45483    | 34.58 | ug/l    | -0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 69.16%  |           |
| Target Compounds            |       |      |          |       |         |           |
| 20) Methylene Chloride      | 3.65  | 84   | 7957     | 5.942 | ug/l    | Qvalue 85 |

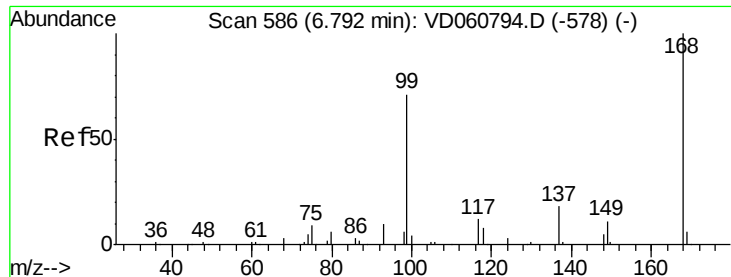
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VD060825.D  
Acq On : 1 Feb 2019 18:01  
Operator : VA/AP  
Sample : K1297-06RE  
Misc : 4.61a/5ml/MSVOA D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
A0C4-SS1RE

Quant Time: Feb 02 02:00:23 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D012819S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 29 13:53:55 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.76 min Scan# 583

Delta R.T. -0.03 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

Instrument :

MSVOA\_D

ClientSampleId :

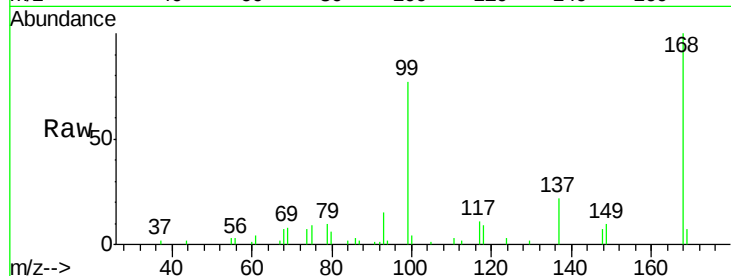
A0C4-SS1RE

Tot Ion:168 Resp: 81278

Ion Ratio Lower Upper

168 100

99 76.9 59.2 88.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.76

25000

20000

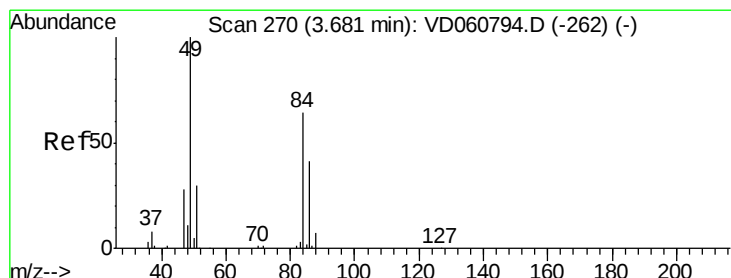
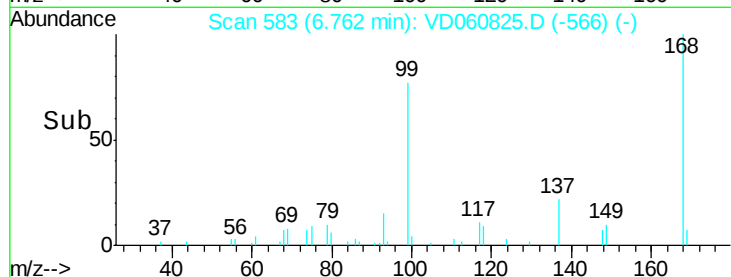
15000

10000

5000

0

Time--> 6.60 6.70 6.80 6.90



#20

Methylene Chloride

Concen: 5.942 ug/l

RT: 3.65 min Scan# 267

Delta R.T. -0.03 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

Tgt Ion: 84 Resp: 7957

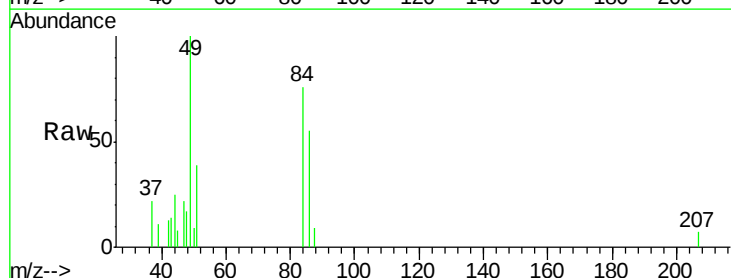
Ion Ratio Lower Upper

84 100

49 131.2 124.2 186.2

51 51.4 38.1 57.1

86 72.8 50.6 76.0



Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

6000

5000

4000

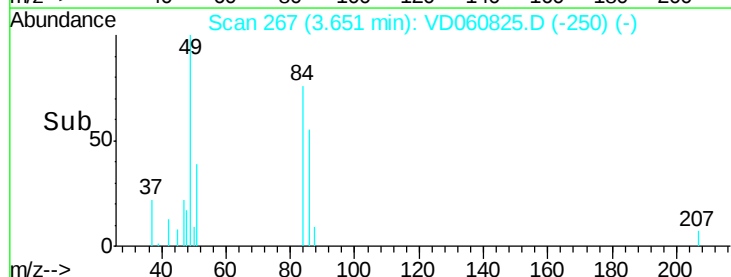
3000

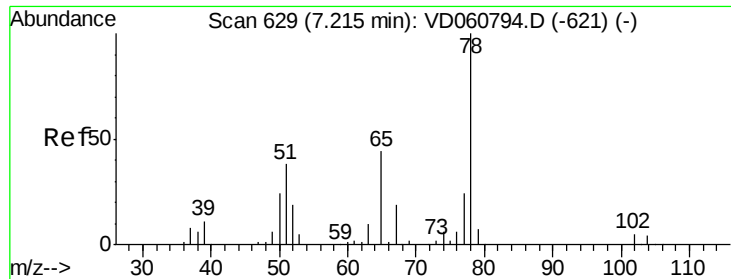
2000

1000

0

Time--> 3.60 3.65 3.70 3.75





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.19 min Scan# 626

Delta R.T. -0.03 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

Instrument :

MSVOA\_D

ClientSampleId :

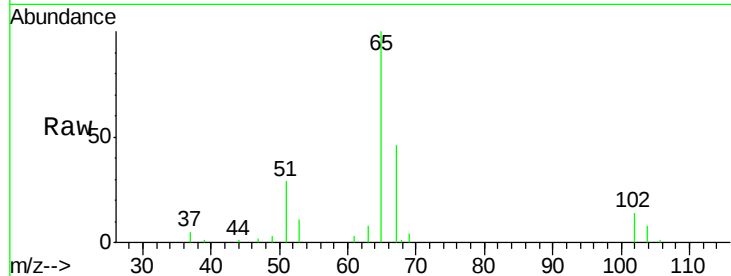
A0C4-SS1RE

Tot Ion: 65 Resp: 108049

Ion Ratio Lower Upper

65 100

67 45.8 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.19

40000

30000

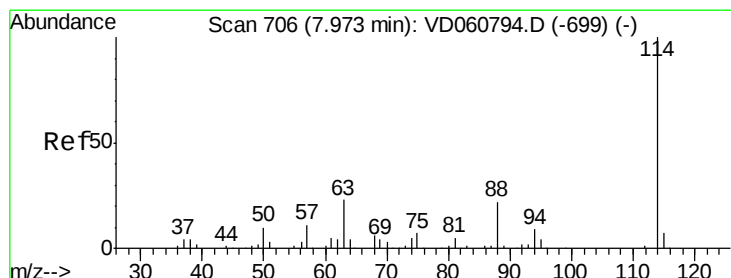
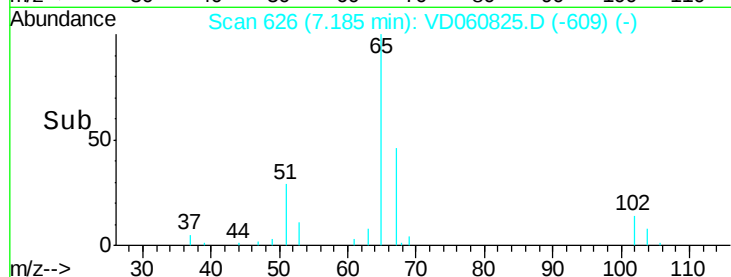
20000

10000

0

7.10 7.20 7.30

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.94 min Scan# 703

Delta R.T. -0.03 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

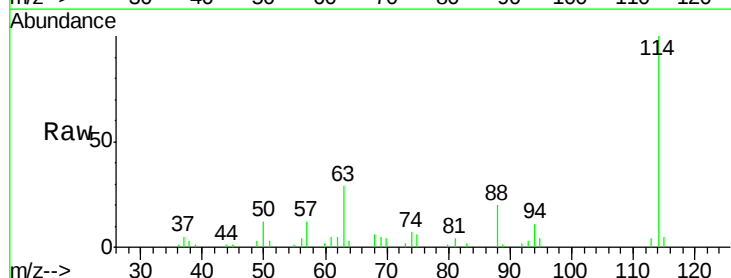
Tgt Ion: 114 Resp: 116853

Ion Ratio Lower Upper

114 100

63 29.2 0.0 46.6

88 19.9 0.0 44.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

7.94

60000

50000

40000

30000

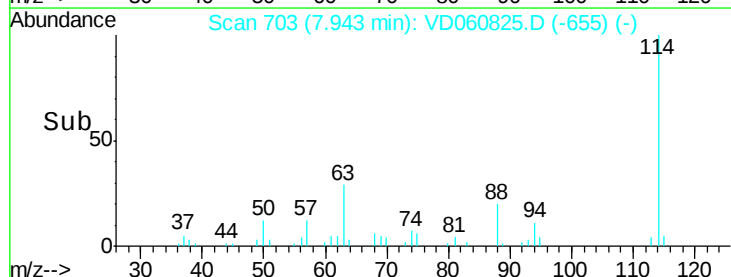
20000

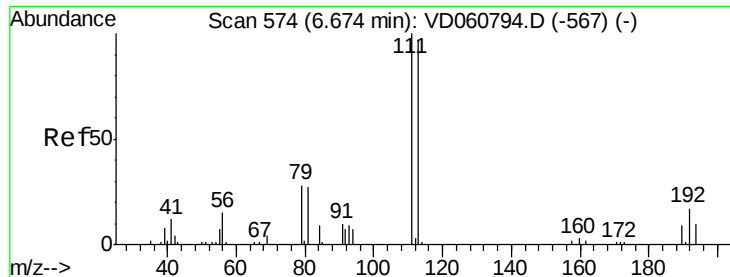
10000

0

7.80 7.90 8.00 8.10

Time-->

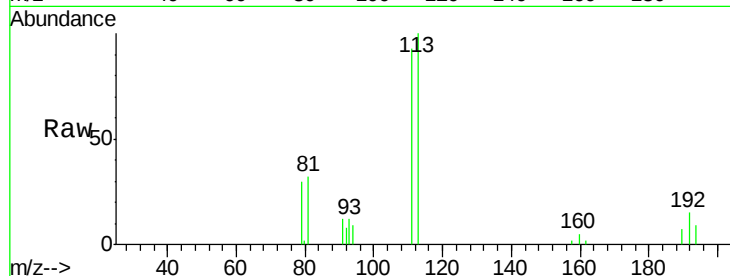




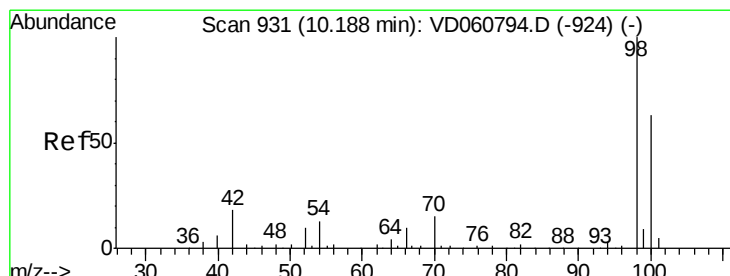
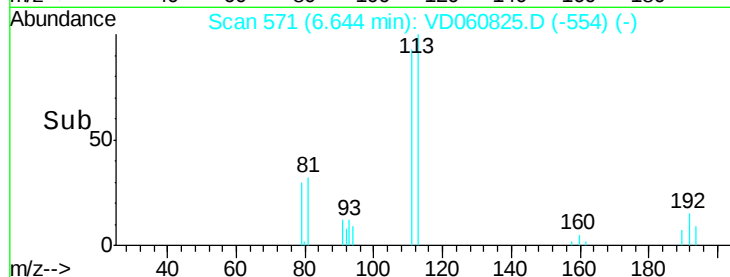
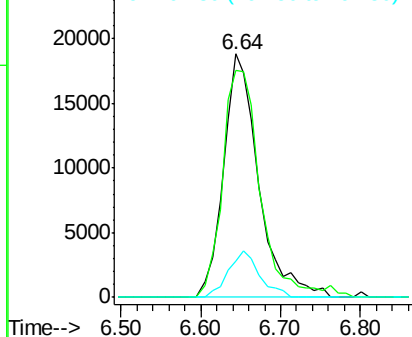
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.64 min Scan# 571  
 Delta R.T. -0.03 min  
 Lab File: VD060825.D  
 Acq: 1 Feb 2019 18:01

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 A0C4-SS1RE

Tot Ion:113 Resp: 58086  
 Ion Ratio Lower Upper  
 113 100  
 111 93.2 82.3 123.5  
 192 14.7 14.4 21.6

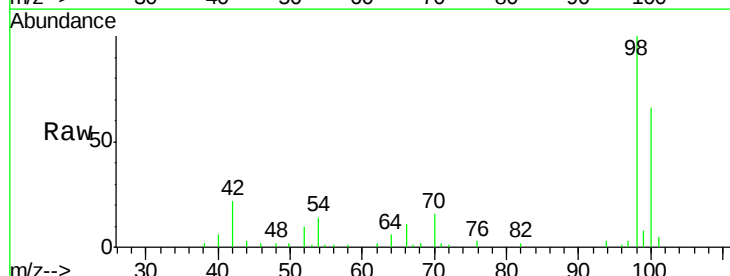


Abundance Ion 112.90 (112.60 to 113.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 191.80 (191.50 to 192.50): V

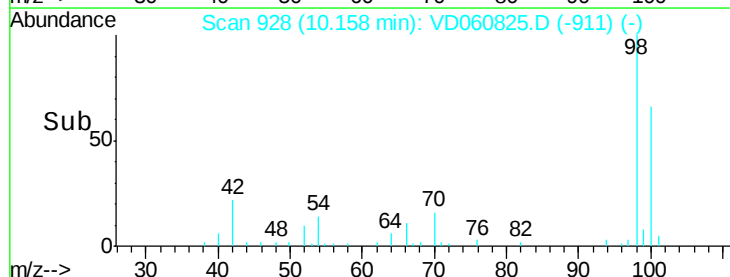
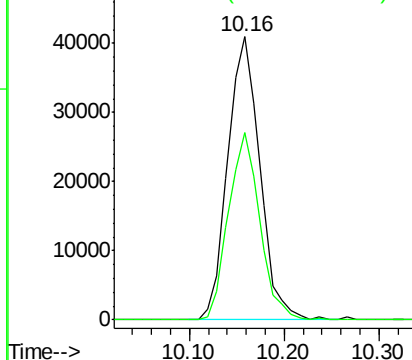


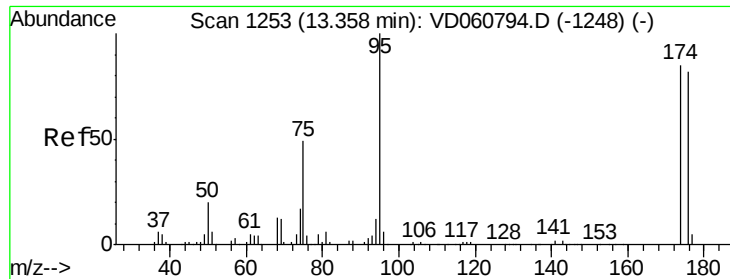
#50  
 Toluene-d8  
 Concen: N.D. ug/l  
 RT: 10.16 min Scan# 928  
 Delta R.T. -0.03 min  
 Lab File: VD060825.D  
 Acq: 1 Feb 2019 18:01

Tgt Ion: 98 Resp: 95933  
 Ion Ratio Lower Upper  
 98 100  
 100 66.0 51.0 76.6



Abundance Ion 98.05 (97.75 to 98.75): V  
 Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.34 min Scan# 1251

Delta R.T. -0.02 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

Instrument :

MSVOA\_D

ClientSampleId :

A0C4-SS1RE

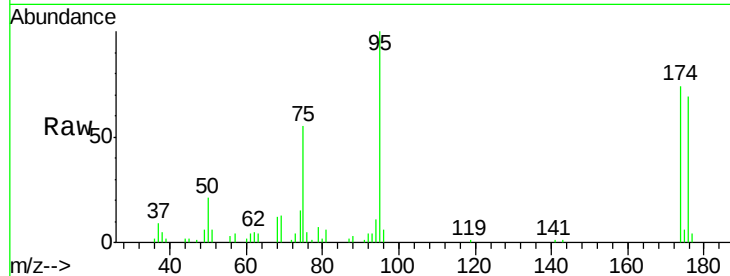
Tot Ion: 95 Resp: 45483

Ion Ratio Lower Upper

95 100

174 73.8 0.0 169.6

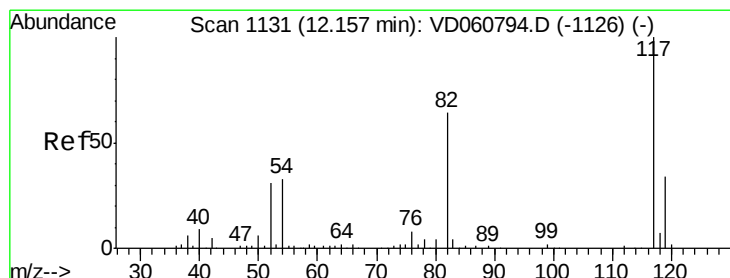
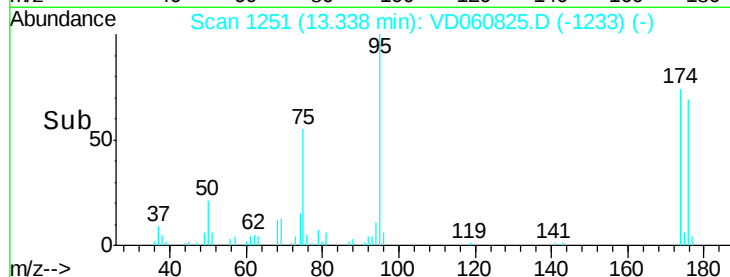
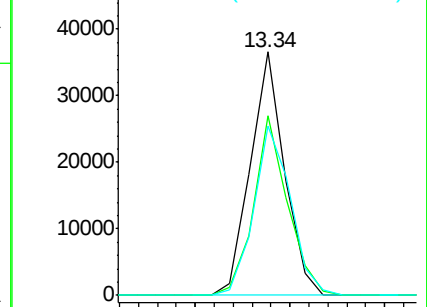
176 69.4 0.0 163.8



Abundance Ion 95.00 (94.70 to 95.70): VD060794.D (-1248) (-)

Ion 173.90 (173.60 to 174.60): VD060794.D (-1248) (-)

Ion 175.90 (175.60 to 176.60): VD060794.D (-1248) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.14 min Scan# 1129

Delta R.T. -0.02 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

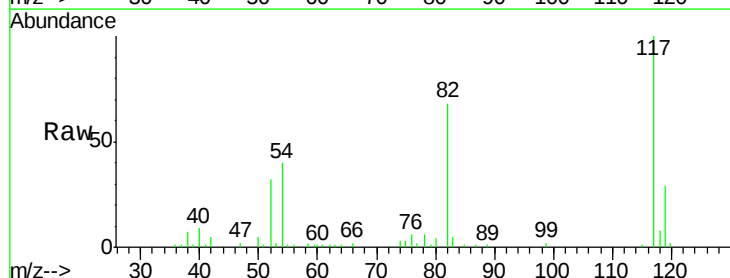
Tgt Ion: 117 Resp: 96228

Ion Ratio Lower Upper

117 100

82 68.0 51.5 77.3

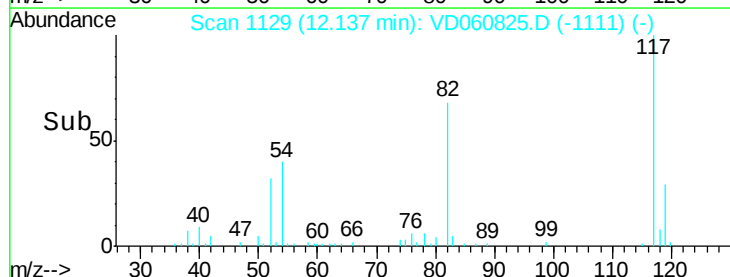
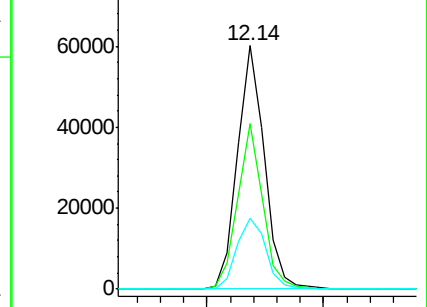
119 29.1 27.1 40.7

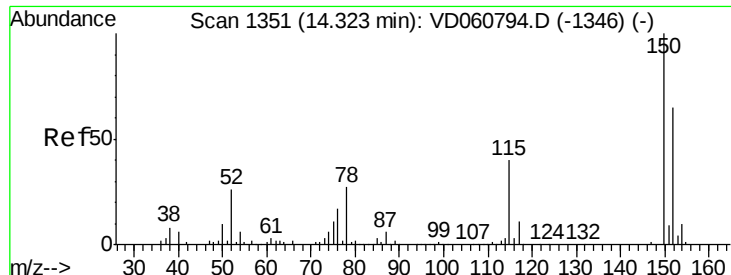


Abundance Ion 116.95 (116.65 to 117.65): VD060794.D (-1126) (-)

Ion 82.05 (81.75 to 82.75): VD060794.D (-1126) (-)

Ion 118.95 (118.65 to 119.65): VD060794.D (-1126) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.30 min Scan# 1349

Delta R.T. -0.02 min

Lab File: VD060825.D

Acq: 1 Feb 2019 18:01

Instrument :

MSVOA\_D

ClientSampleId :

A0C4-SS1RE

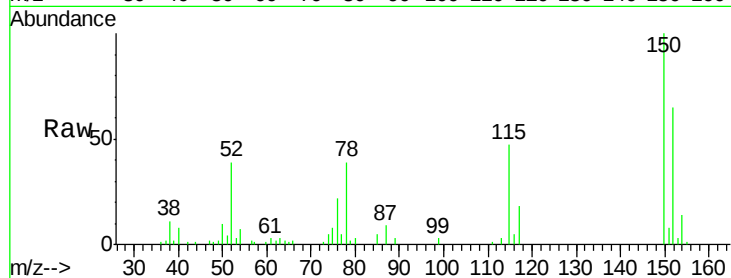
Tot Ion:152 Resp: 32682

Ion Ratio Lower Upper

152 100

115 72.7 31.6 95.0

150 153.3 0.0 317.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V

