

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW121718\  
 Data File : VW007536.D  
 Acq On : 14 Dec 2018 15:33  
 Operator : SY/AP  
 Sample : J6370-01  
 Misc : 6.89G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 62 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 S32-0634

Quant Time: Dec 15 01:09:14 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

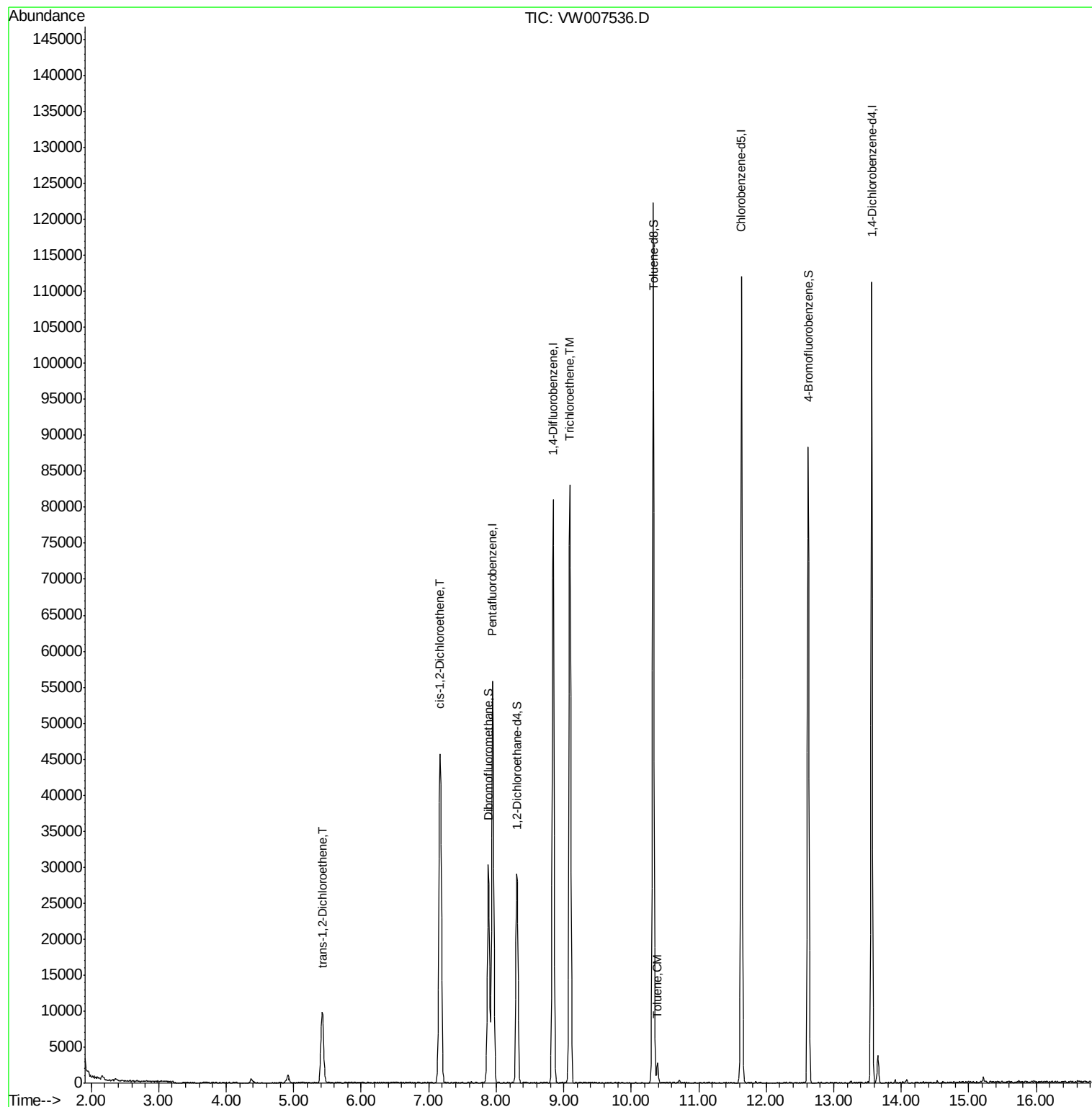
| Internal Standards           | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene        | 7.95  | 168  | 41122    | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.84  | 114  | 69149    | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5         | 11.63 | 117  | 63289    | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.56 | 152  | 29766    | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds  |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4    | 8.31  | 65   | 24472    | 53.64  | ug/l    | 0.00     |
| Spiked Amount 50.000         |       |      | Recovery | =      | 107.28% |          |
| 35) Dibromofluoromethane     | 7.88  | 113  | 21883    | 52.28  | ug/l    | 0.00     |
| Spiked Amount 50.000         |       |      | Recovery | =      | 104.56% |          |
| 50) Toluene-d8               | 10.32 | 98   | 81564    | 51.97  | ug/l    | 0.00     |
| Spiked Amount 50.000         |       |      | Recovery | =      | 103.94% |          |
| 62) 4-Bromofluorobenzene     | 12.62 | 95   | 29610    | 51.31  | ug/l    | 0.00     |
| Spiked Amount 50.000         |       |      | Recovery | =      | 102.62% |          |
| Target Compounds             |       |      |          |        |         |          |
| 21) trans-1,2-Dichloroethene | 5.42  | 96   | 6195     | 13.728 | ug/l    | 90       |
| 27) cis-1,2-Dichloroethene   | 7.17  | 96   | 27799    | 56.261 | ug/l    | 94       |
| 44) Trichloroethene          | 9.09  | 130  | 29360    | 58.732 | ug/l    | 100      |
| 52) Toluene                  | 10.39 | 92   | 1455     | 1.284  | ug/l    | 97       |

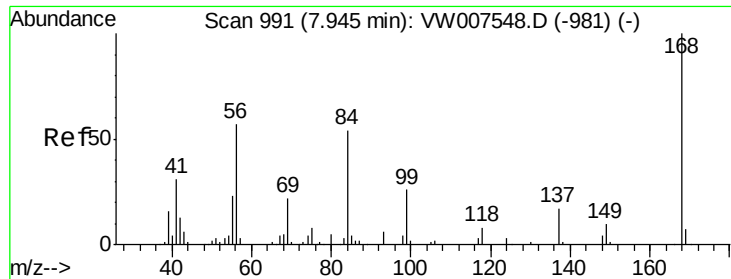
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW121718\  
Data File : VW007536.D  
Acq On : 14 Dec 2018 15:33  
Operator : SY/AP  
Sample : J6370-01  
Misc : 6.89G/5ML/MSVOA\_W/SOIL  
ALS Vial : 62 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
S32-0634

Quant Time: Dec 15 01:09:14 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 11 02:58:16 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

Instrument :

MSVOA\_W

ClientSampled :

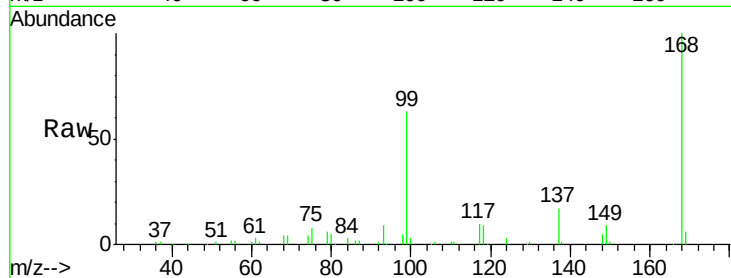
S32-0634

Tgt Ion: 168 Resp: 41122

Ion Ratio Lower Upper

168 100

99 62.9 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

20000

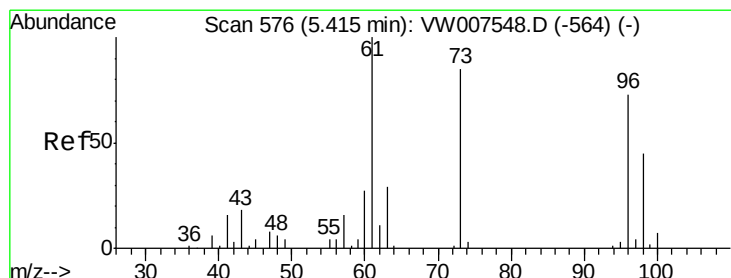
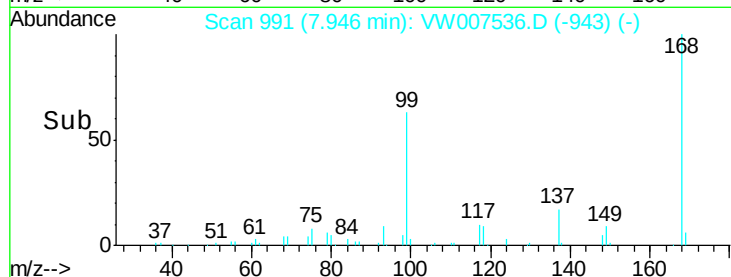
15000

10000

5000

0

Time--> 7.85 7.90 7.95 8.00 8.05



#21

trans-1,2-Dichloroethene

Concen: 13.728 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

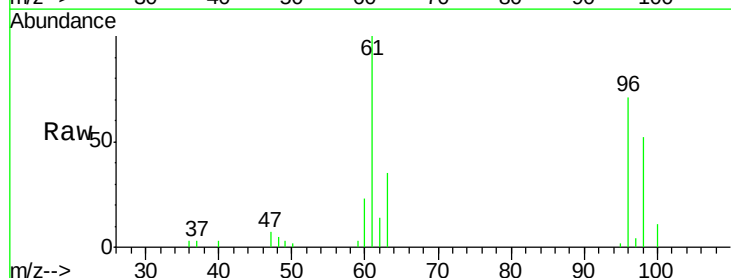
Tgt Ion: 96 Resp: 6195

Ion Ratio Lower Upper

96 100

61 140.7 105.0 157.6

98 73.0 49.7 74.5



Abundance Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW

5.42

4000

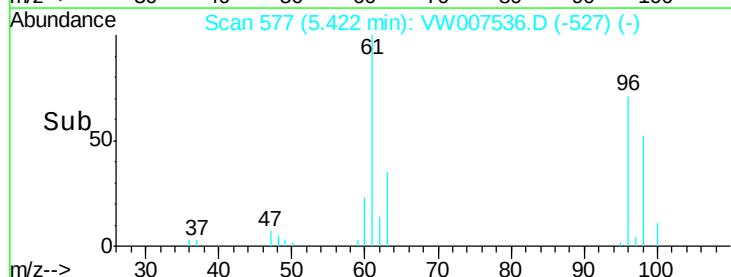
3000

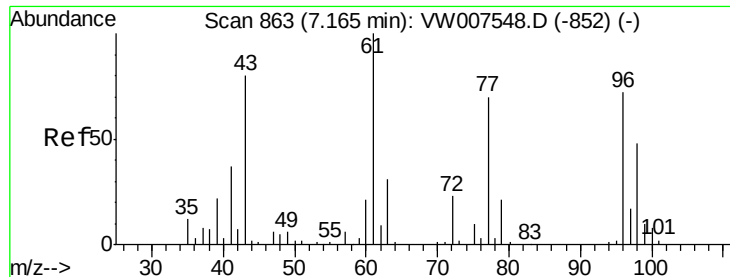
2000

1000

0

Time--> 5.30 5.35 5.40 5.45 5.50

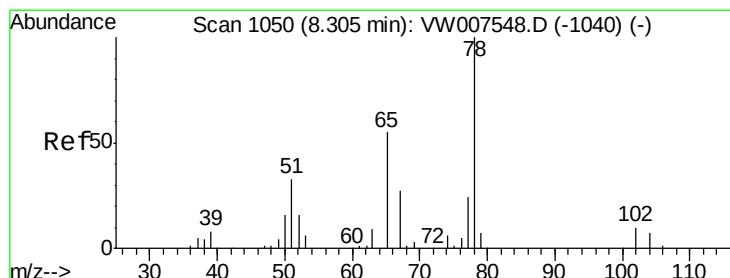
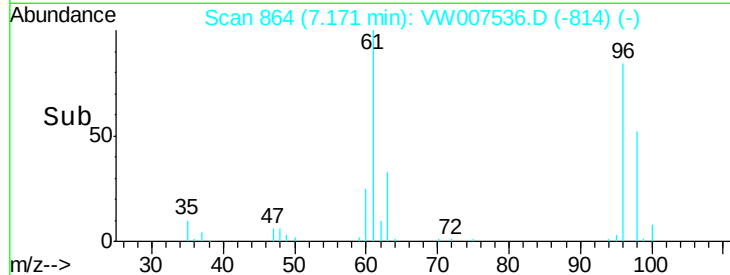
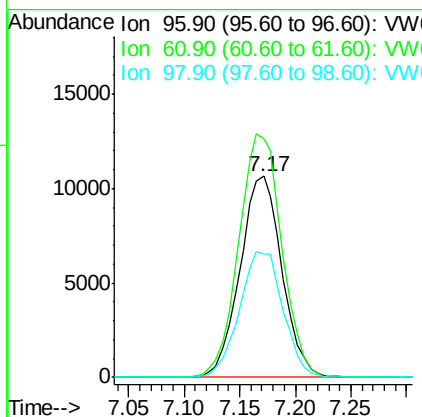
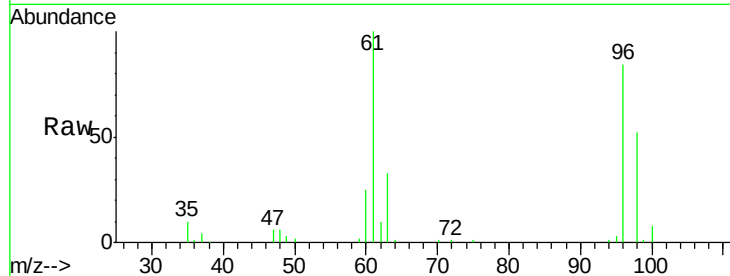




#27  
 cis-1,2-Dichloroethene  
 Concen: 56.261 ug/l  
 RT: 7.17 min Scan# 864  
 Delta R.T. 0.01 min  
 Lab File: VW007536.D  
 Acq: 14 Dec 2018 15:33

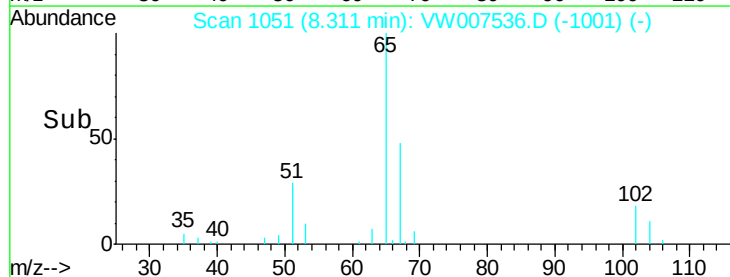
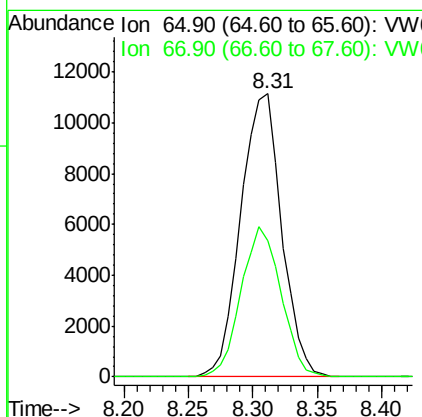
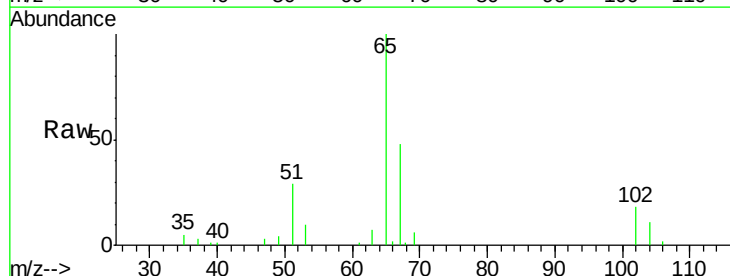
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 S32-0634

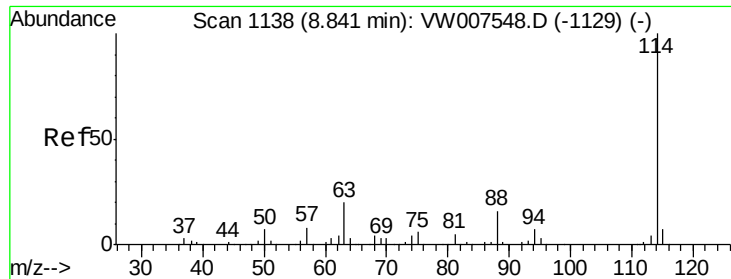
Tgt Ion: 96 Resp: 27799  
 Ion Ratio Lower Upper  
 96 100  
 61 124.7 0.0 268.4  
 98 65.0 0.0 127.8



#33  
 1,2-Dichloroethane-d4  
 Concen: 53.641 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. 0.01 min  
 Lab File: VW007536.D  
 Acq: 14 Dec 2018 15:33

Tgt Ion: 65 Resp: 24472  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 101.6

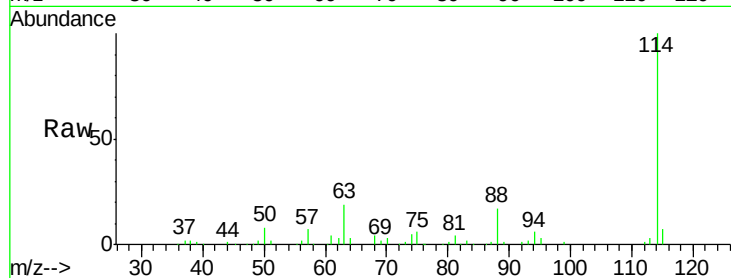




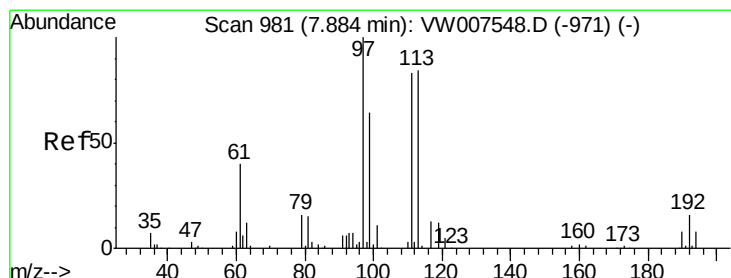
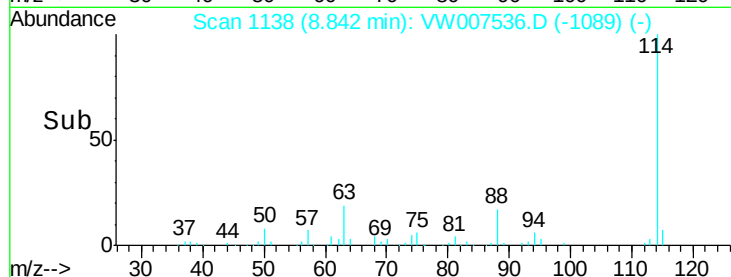
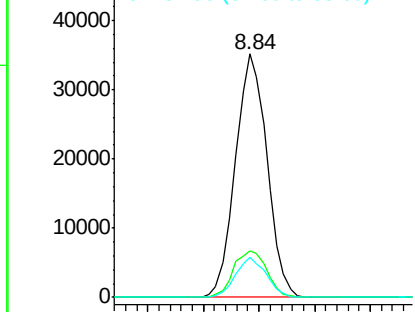
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW007536.D  
 Acq: 14 Dec 2018 15:33

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 S32-0634

Tgt Ion:114 Resp: 69149  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 39.6  
 88 16.7 0.0 31.4

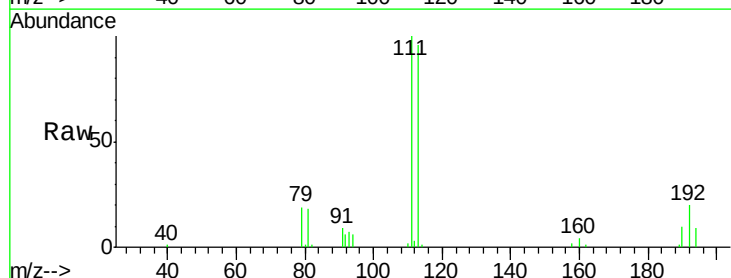


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

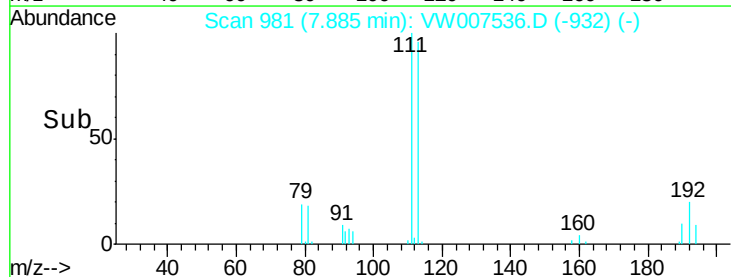
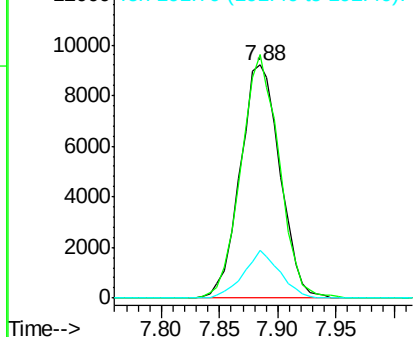


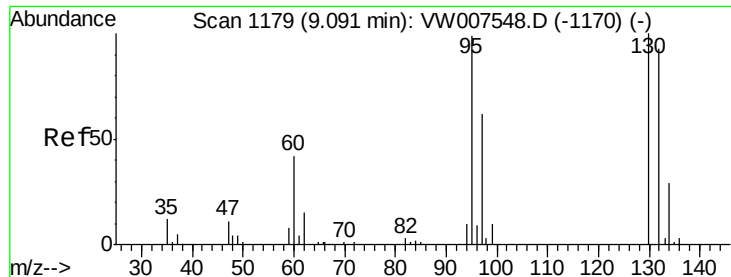
#35  
 Dibromofluoromethane  
 Concen: 52.278 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.00 min  
 Lab File: VW007536.D  
 Acq: 14 Dec 2018 15:33

Tgt Ion:113 Resp: 21883  
 Ion Ratio Lower Upper  
 113 100  
 111 100.3 81.1 121.7  
 192 18.5 14.6 21.8



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





#44

Trichloroethene

Concen: 58.732 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

Instrument :

MSVOA\_W

ClientSampleId :

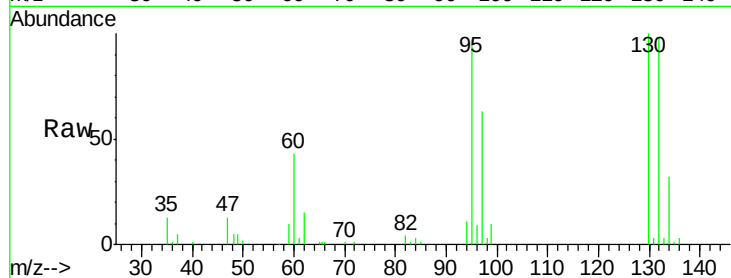
S32-0634

Tgt Ion:130 Resp: 29360

Ion Ratio Lower Upper

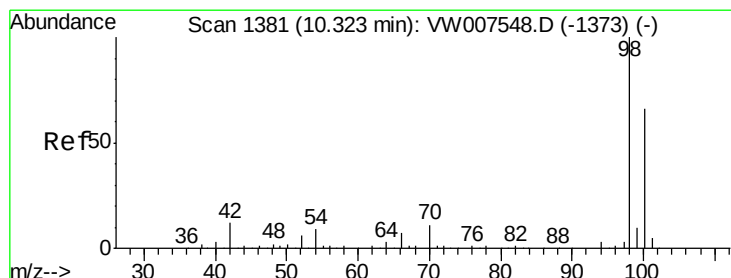
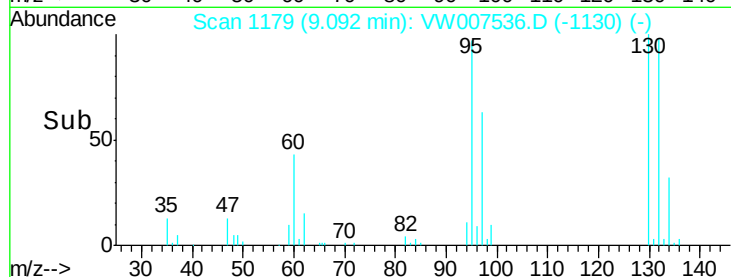
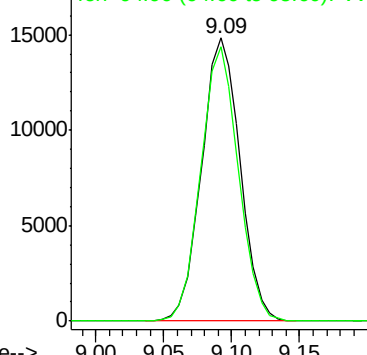
130 100

95 97.1 0.0 193.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW



#50

Toluene-d8

Concen: 51.969 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW007536.D

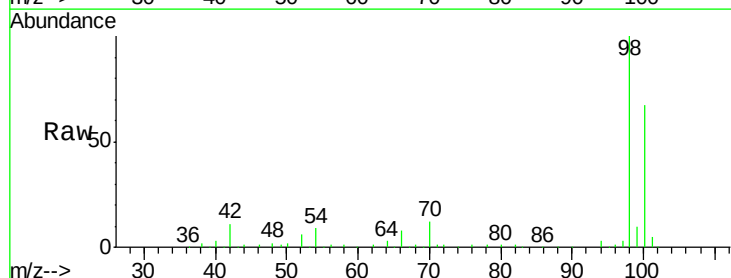
Acq: 14 Dec 2018 15:33

Tgt Ion: 98 Resp: 81564

Ion Ratio Lower Upper

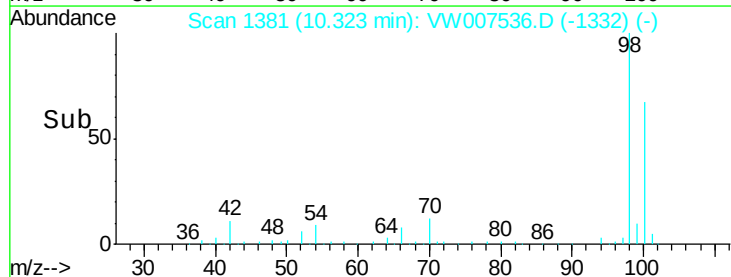
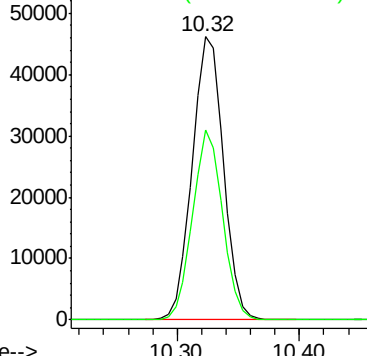
98 100

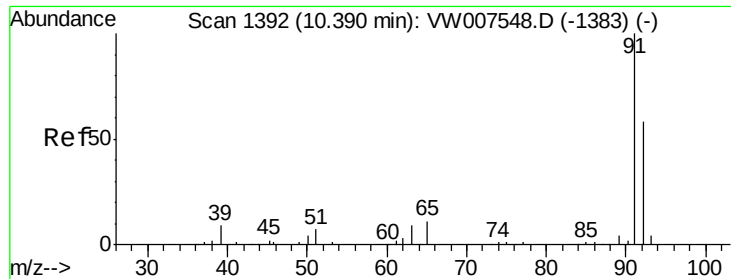
100 64.5 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 1.284 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

Instrument :

MSVOA\_W

ClientSampled :

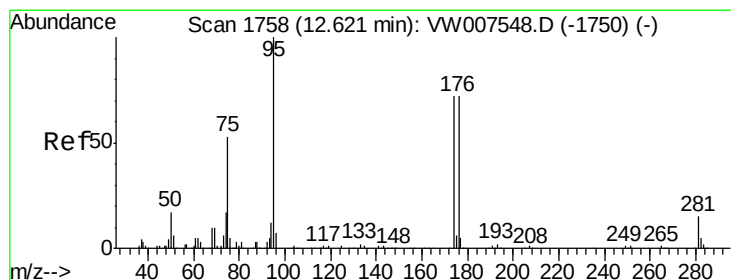
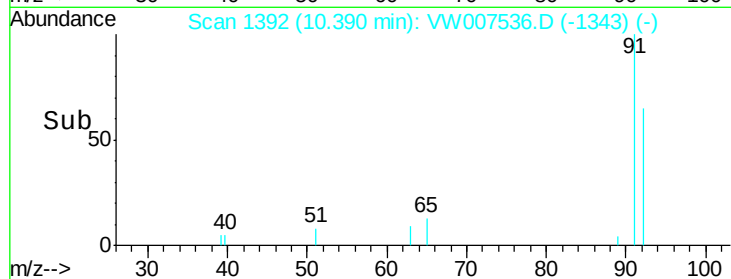
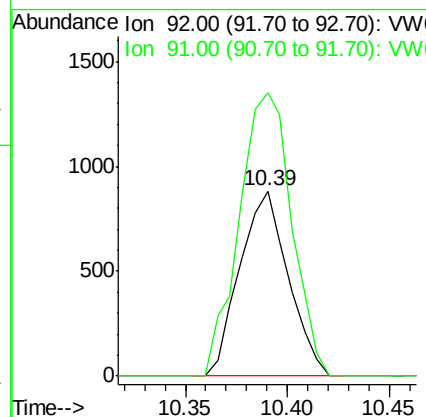
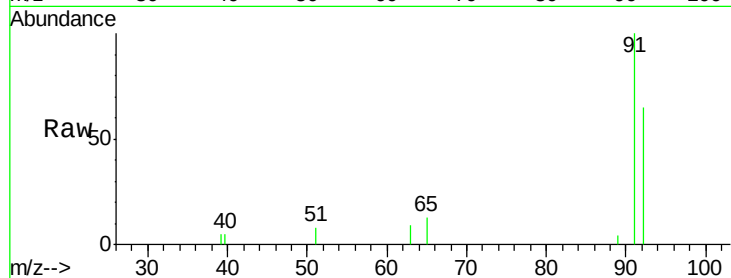
S32-0634

Tgt Ion: 92 Resp: 1455

Ion Ratio Lower Upper

92 100

91 165.9 136.2 204.2



#62

4-Bromofluorobenzene

Concen: 51.313 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW007536.D

Acq: 14 Dec 2018 15:33

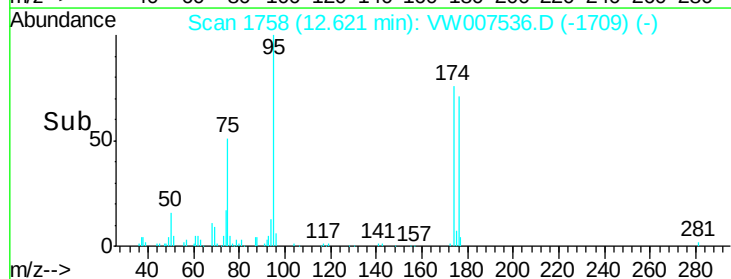
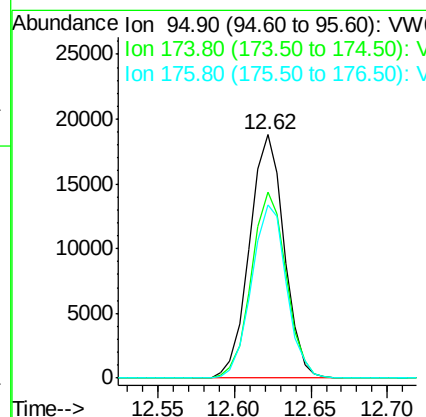
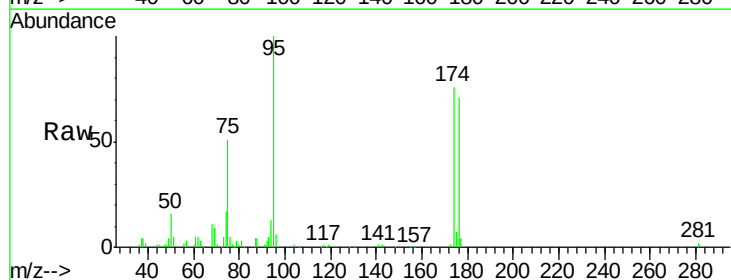
Tgt Ion: 95 Resp: 29610

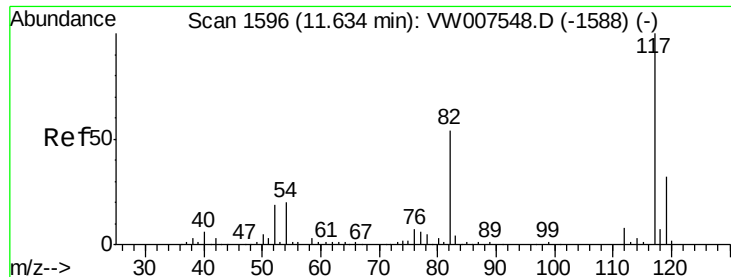
Ion Ratio Lower Upper

95 100

174 77.1 0.0 147.2

176 71.9 0.0 138.8

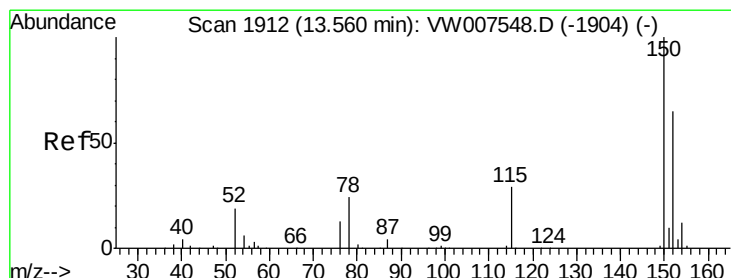
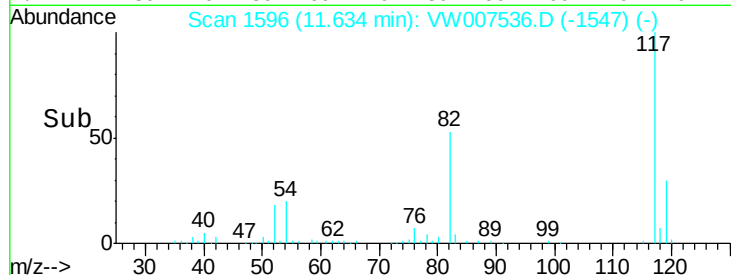
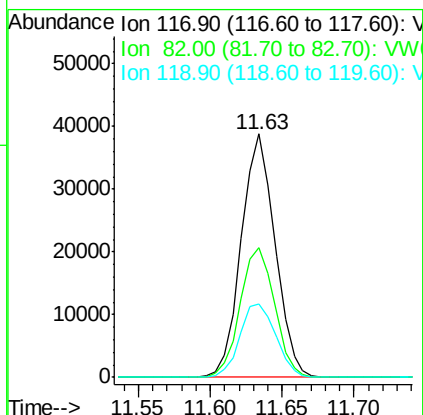
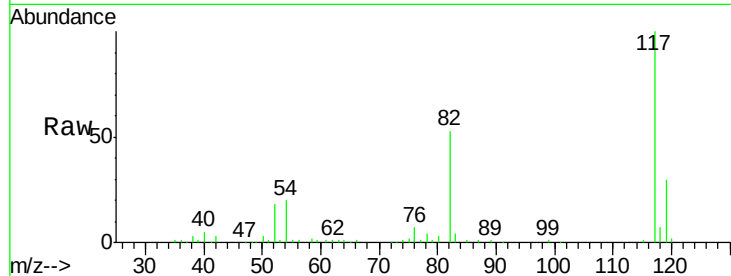




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW007536.D  
Acq: 14 Dec 2018 15:33

Instrument :  
MSVOA\_W  
ClientSampled :  
S32-0634

Tgt Ion:117 Resp: 63289  
Ion Ratio Lower Upper  
117 100  
82 53.3 42.3 63.5  
119 30.3 23.0 34.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW007536.D  
Acq: 14 Dec 2018 15:33

Tgt Ion:152 Resp: 29766  
Ion Ratio Lower Upper  
152 100  
115 61.0 31.4 94.2  
150 153.3 0.0 358.4

