

Data File : VW008152.D  
Acq On : 10 Jan 2019 16:48  
Operator : SY/AP  
Sample : K1075-18  
Misc : 4.67G/5ML/MSVOA\_W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BASIN-9

Quant Time: Jan 11 05:12:06 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 09 04:40:48 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 58575    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 113227   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 104289   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 45027    | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.30   | 65  | 43323    | 65.81 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 131.62% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 36440    | 55.18 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.36% |      |
| 50) Toluene-d8            | 10.32  | 98  | 152856   | 55.16 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.32% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 50057    | 50.39 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.78% |      |

#### Target Compounds

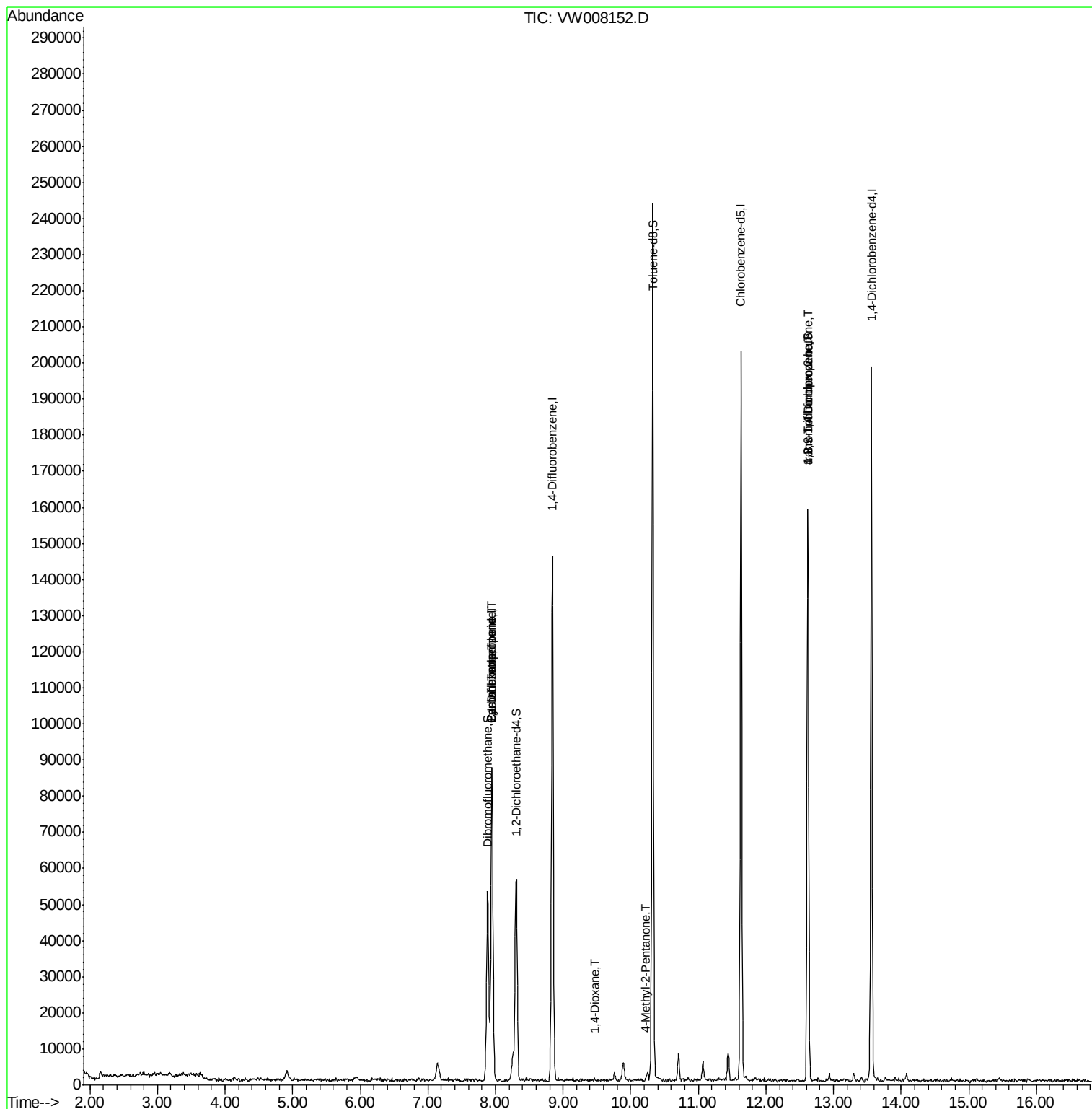
|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.23  | 59  | 103   | Below Cal | #      | 100    |
| 16) Acetone                    | 4.15  | 43  | 433   | Below Cal |        | 98     |
| 20) Methylene Chloride         | 4.92  | 84  | 1717  | Below Cal | #      | 67     |
| 31) Cyclohexane                | 7.95  | 56  | 1947  | 1.405     | ug/l # | 11     |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 5767  | 4.944     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 6510  | 6.098     | ug/l # | 15     |
| 49) 1,4-Dioxane                | 9.47  | 88  | 24    | 3.874     | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 10.22 | 43  | 499   | 1.103     | ug/l # | 79     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 26490 | 64.536    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 26490 | 150.284   | ug/l # | 11     |

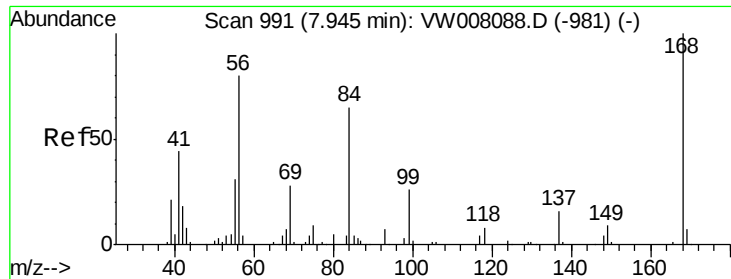
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VW008152.D  
Acq On : 10 Jan 2019 16:48  
Operator : SY/AP  
Sample : K1075-18  
Misc : 4.67G/5ML/MSVOA\_W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BASIN-9

Quant Time: Jan 11 05:12:06 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 09 04:40:48 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW008152.D

Acq: 10 Jan 2019 16:48

Instrument :

MSVOA\_W

ClientSampleId :

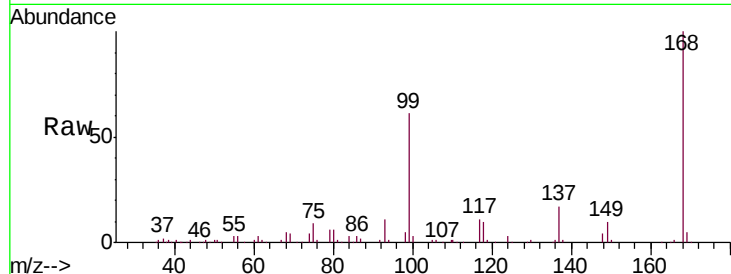
BASIN-9

Tgt Ion:168 Resp: 58575

Ion Ratio Lower Upper

168 100

99 60.6 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

30000

25000

20000

15000

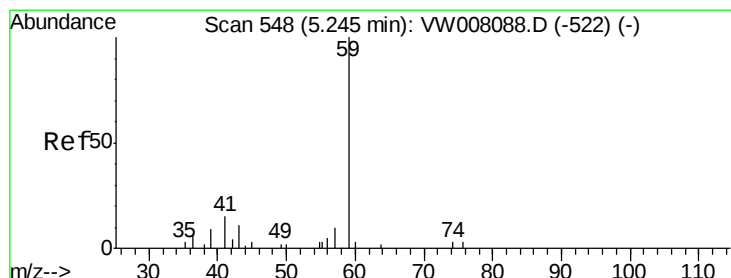
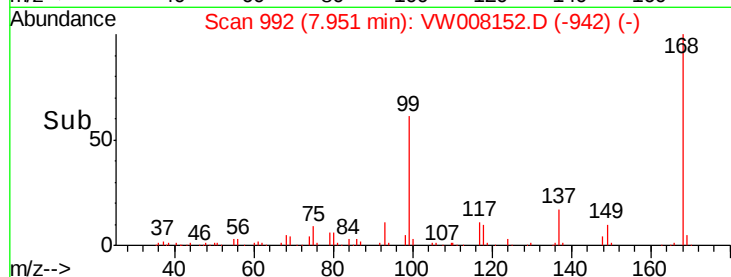
10000

5000

0

Time-->

7.85 7.90 7.95 8.00 8.05



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.23 min Scan# 546

Delta R.T. -0.01 min

Lab File: VW008152.D

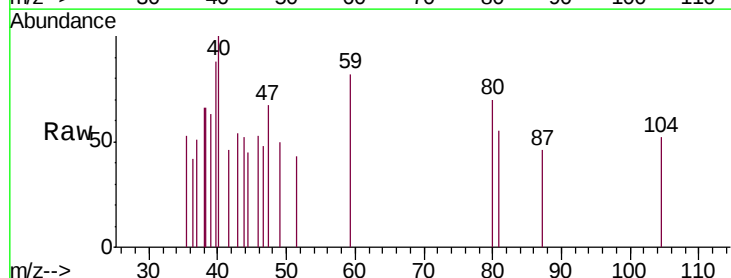
Acq: 10 Jan 2019 16:48

Tgt Ion: 59 Resp: 103

Ion Ratio Lower Upper

59 100

57 43.7 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.23

150

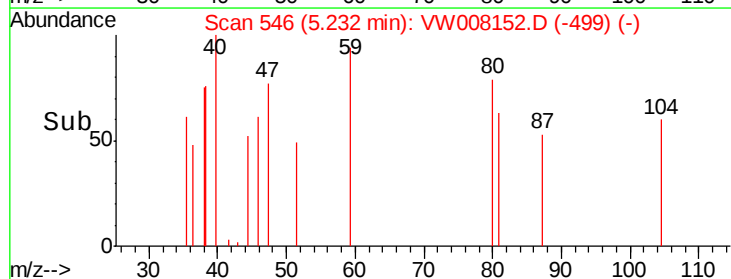
100

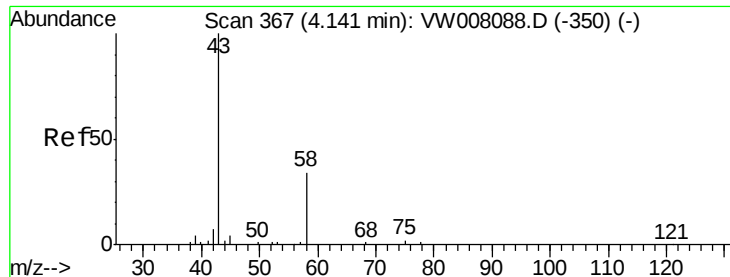
50

0

Time-->

5.22 5.24 5.26





#16

Acetone

Concen: Below Cal

RT: 4.15 min Scan# 369

Delta R.T. 0.01 min

Lab File: VW008152.D

Acq: 10 Jan 2019 16:48

Instrument :

MSVOA\_W

ClientSampled :

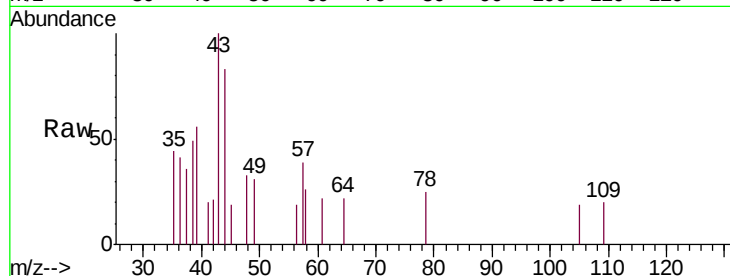
BASIN-9

Tgt Ion: 43 Resp: 433

Ion Ratio Lower Upper

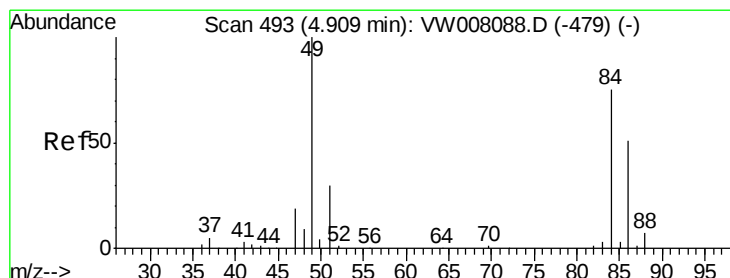
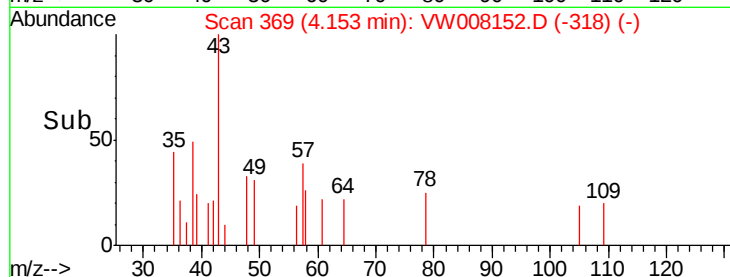
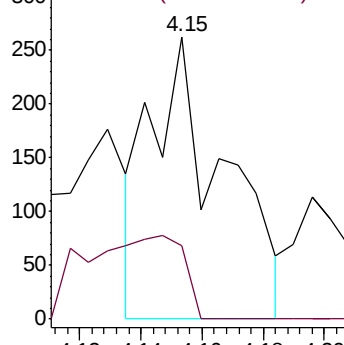
43 100

58 33.3 27.5 41.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW008152.D

Acq: 10 Jan 2019 16:48

Tgt Ion: 84 Resp: 1717

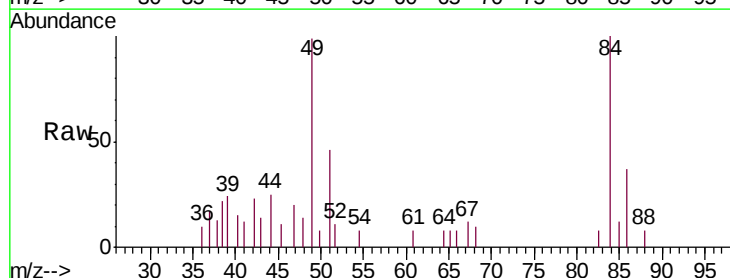
Ion Ratio Lower Upper

84 100

49 88.6 107.1 160.7#

51 45.9 32.4 48.6

86 36.6 54.2 81.4#

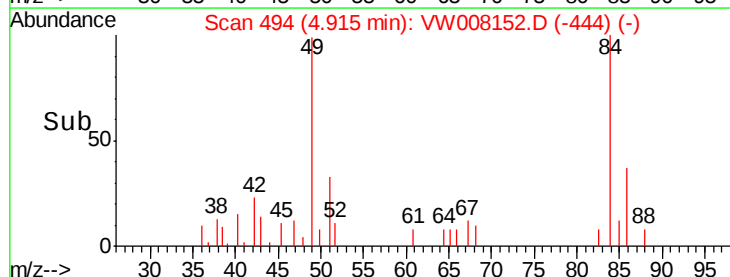
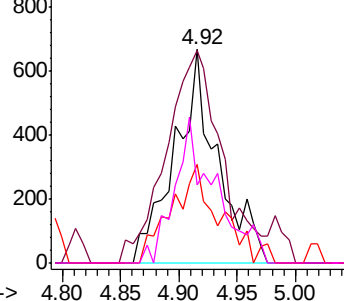


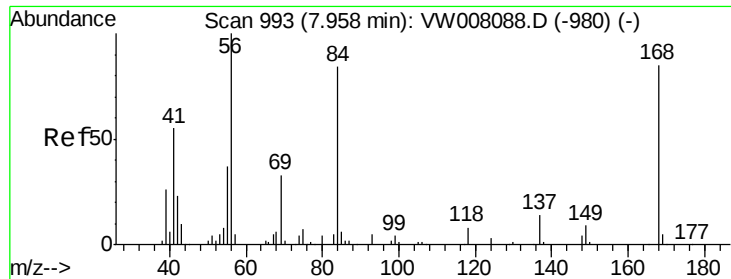
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

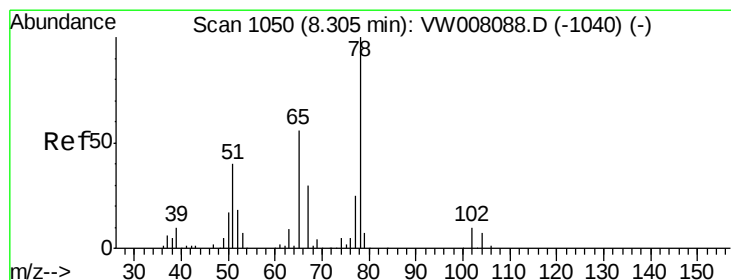
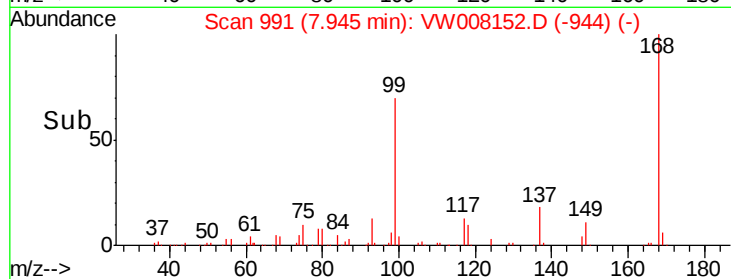
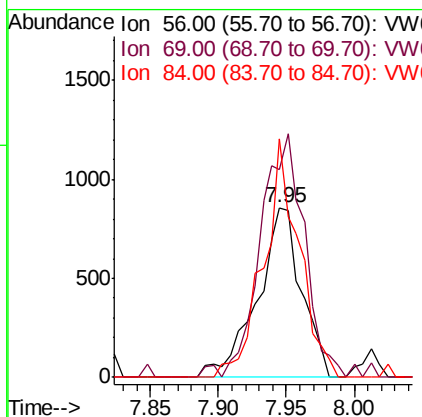
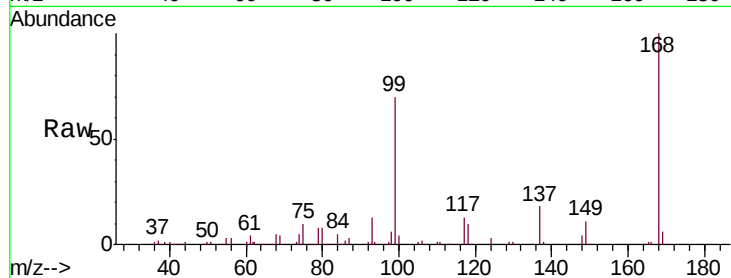




#31  
Cyclohexane  
Concen: 1.405 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW008152.D  
Acq: 10 Jan 2019 16:48

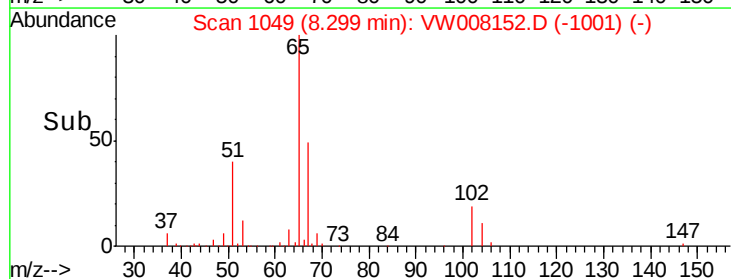
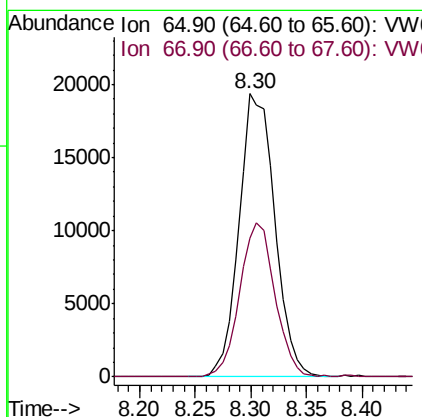
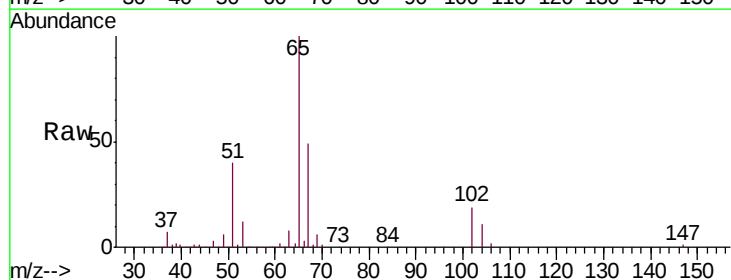
Instrument :  
MSVOA\_W  
ClientSampled :  
BASIN-9

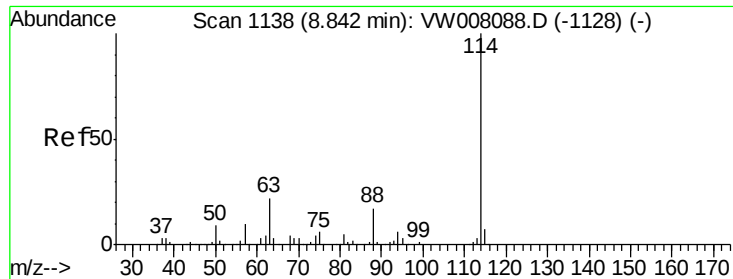
Tgt Ion: 56 Resp: 1947  
Ion Ratio Lower Upper  
56 100  
69 122.4 26.2 39.4#  
84 140.9 67.4 101.2#



#33  
1,2-Dichloroethane-d4  
Concen: 65.807 ug/l  
RT: 8.30 min Scan# 1049  
Delta R.T. -0.01 min  
Lab File: VW008152.D  
Acq: 10 Jan 2019 16:48

Tgt Ion: 65 Resp: 43323  
Ion Ratio Lower Upper  
65 100  
67 53.6 0.0 106.8

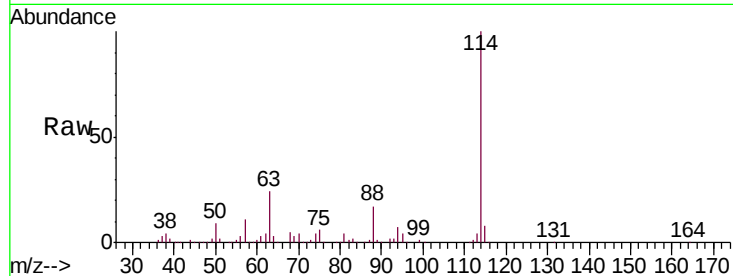




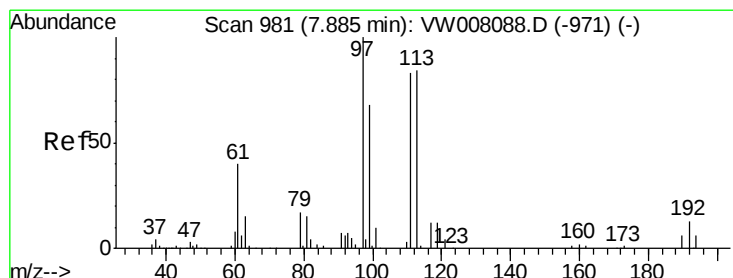
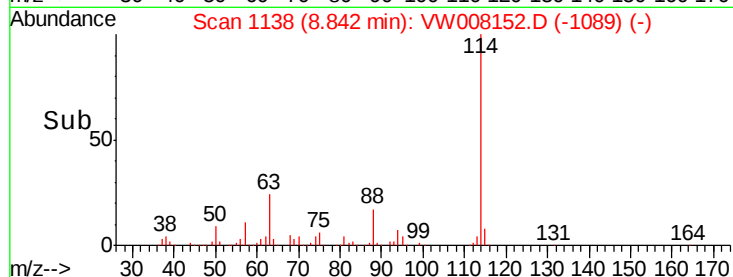
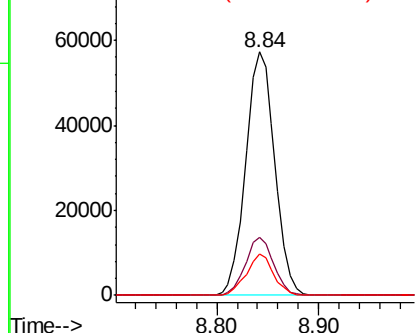
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW008152.D  
 Acq: 10 Jan 2019 16:48

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BASIN-9

Tgt Ion:114 Resp: 113227  
 Ion Ratio Lower Upper  
 114 100  
 63 23.7 0.0 43.4  
 88 17.2 0.0 33.4

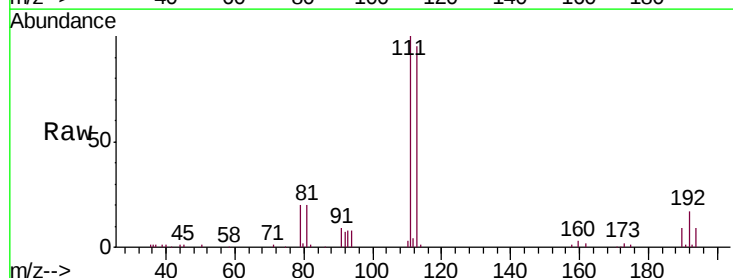


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

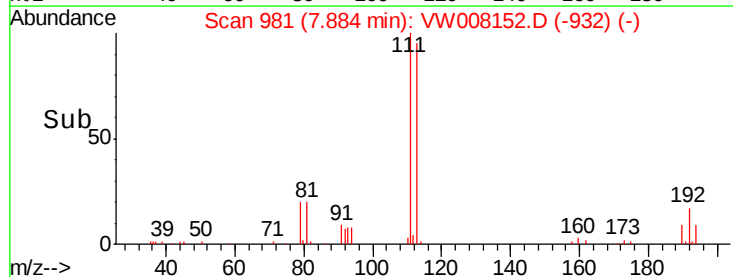
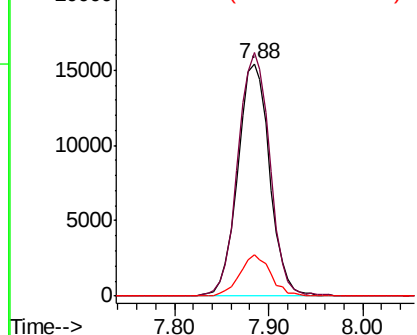


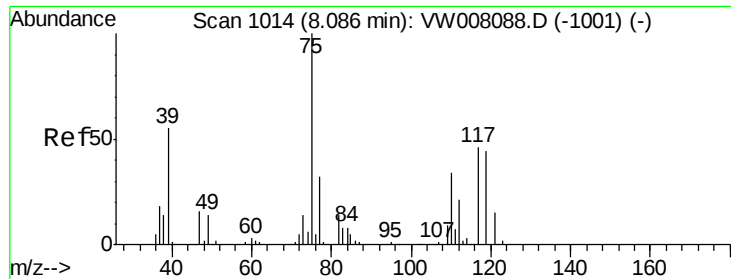
#35  
 Dibromofluoromethane  
 Concen: 55.180 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW008152.D  
 Acq: 10 Jan 2019 16:48

Tgt Ion:113 Resp: 36440  
 Ion Ratio Lower Upper  
 113 100  
 111 105.3 81.8 122.8  
 192 17.0 12.8 19.2



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

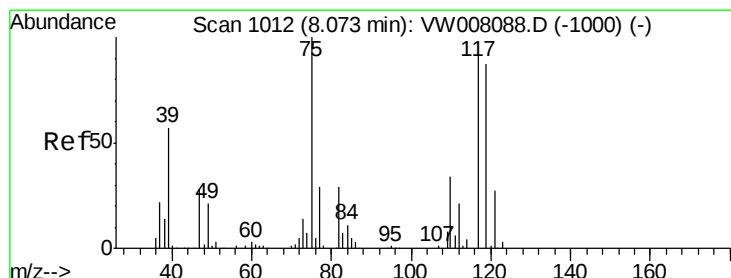
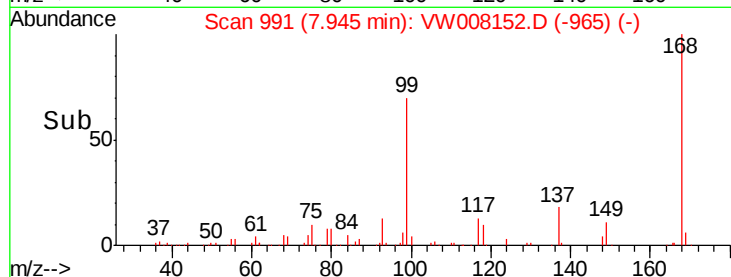
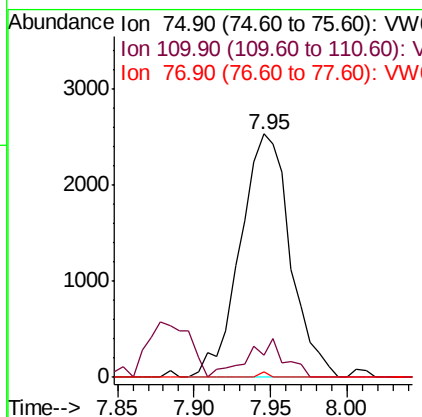
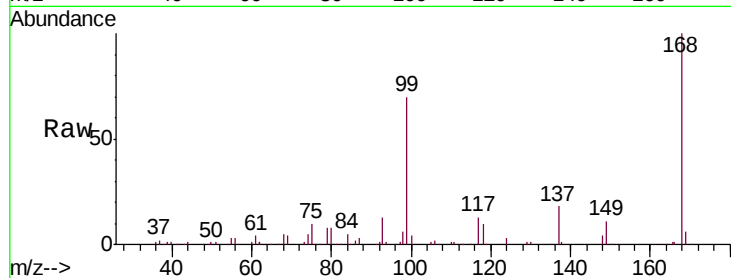




#36  
 1,1-Dichloropropene  
 Concen: 4.944 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.14 min  
 Lab File: VW008152.D  
 Acq: 10 Jan 2019 16:48

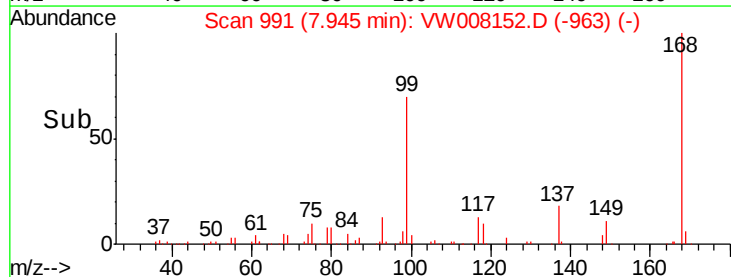
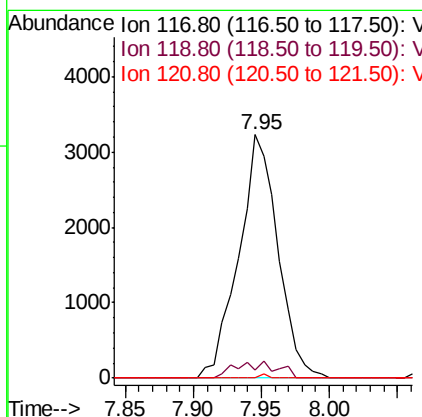
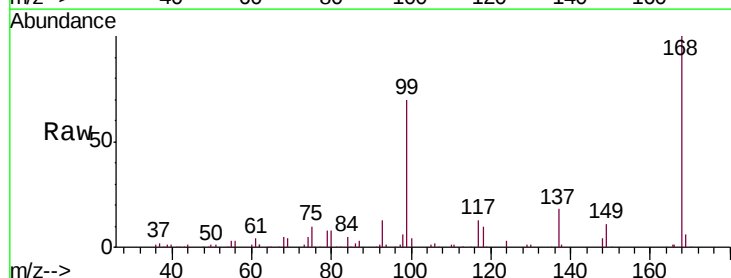
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BASIN-9

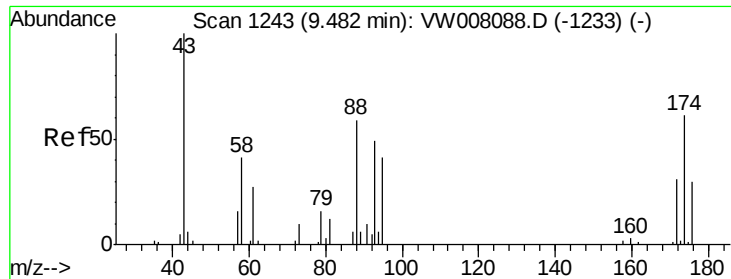
Tgt Ion: 75 Resp: 5767  
 Ion Ratio Lower Upper  
 75 100  
 110 11.3 17.1 51.3#  
 77 0.3 25.5 38.3#



#38  
 Carbon Tetrachloride  
 Concen: 6.098 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW008152.D  
 Acq: 10 Jan 2019 16:48

Tgt Ion: 117 Resp: 6510  
 Ion Ratio Lower Upper  
 117 100  
 119 3.4 75.8 113.8#  
 121 0.0 23.7 35.5#

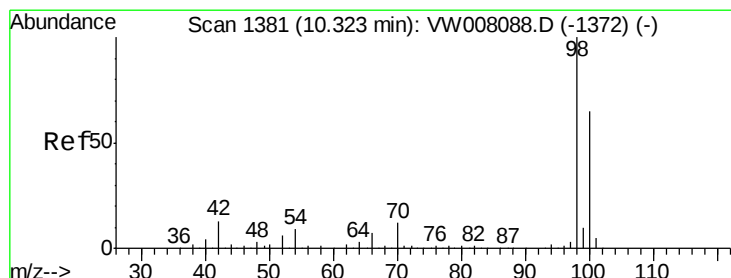
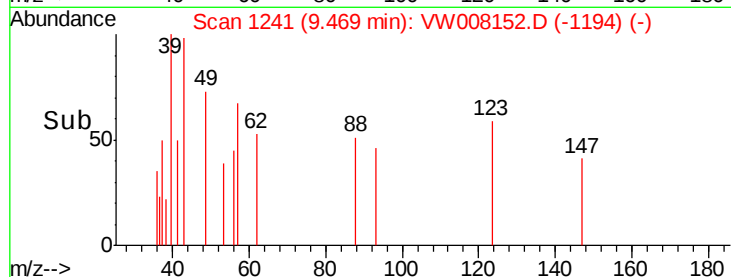
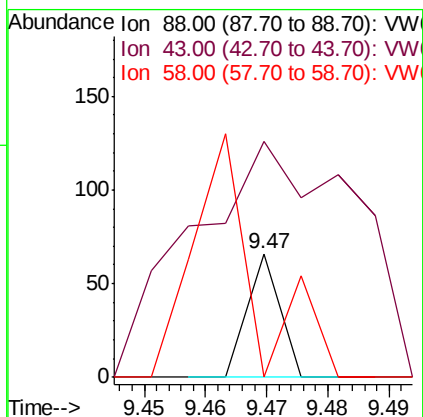
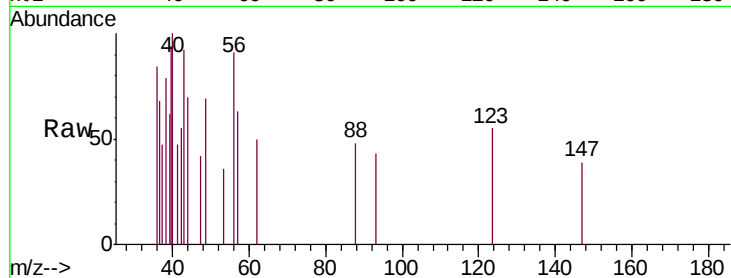




#49  
1,4-Dioxane  
Concen: 3.874 ug/l  
RT: 9.47 min Scan# 1241  
Delta R.T. -0.01 min  
Lab File: VW008152.D  
Acq: 10 Jan 2019 16:48

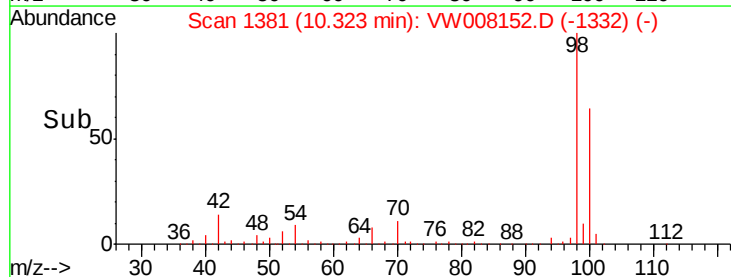
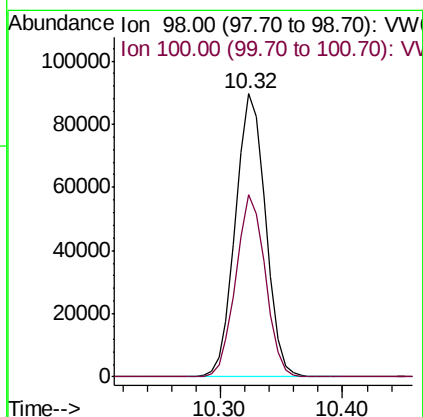
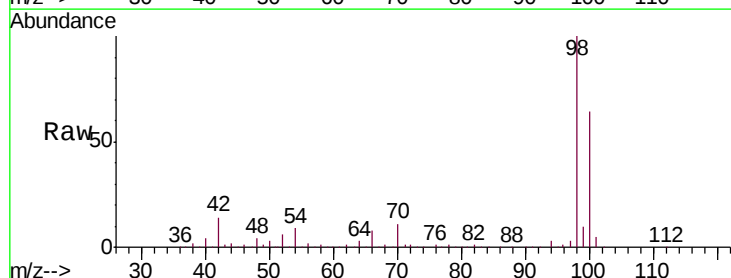
Instrument :  
MSVOA\_W  
ClientSampled :  
BASIN-9

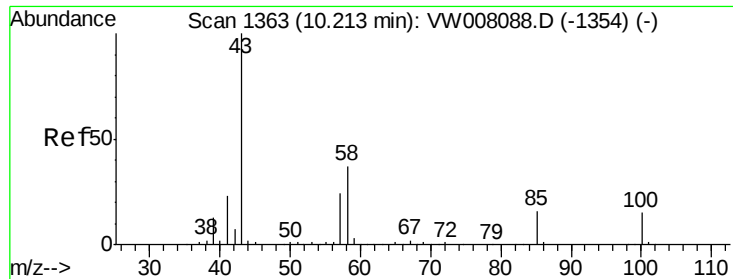
Tgt Ion: 88 Resp: 24  
Ion Ratio Lower Upper  
88 100  
43 970.8 0.0 0.0#  
58 375.0 61.7 92.5#



#50  
Toluene-d8  
Concen: 55.158 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW008152.D  
Acq: 10 Jan 2019 16:48

Tgt Ion: 98 Resp: 152856  
Ion Ratio Lower Upper  
98 100  
100 63.0 51.7 77.5

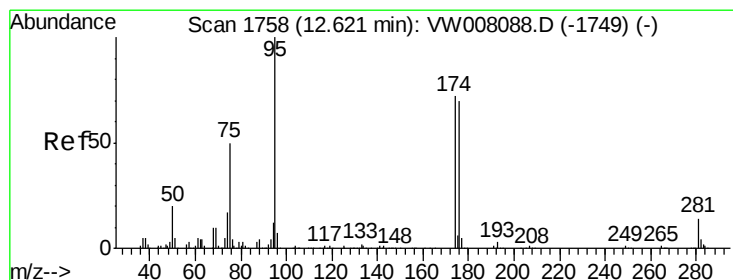
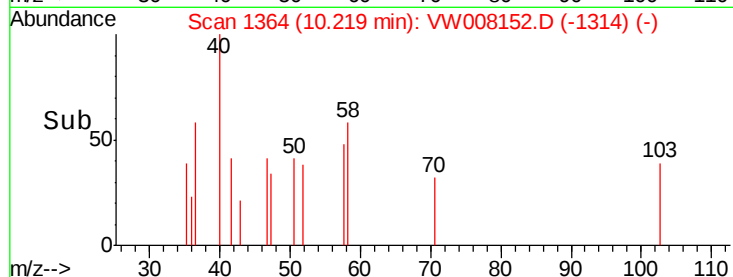
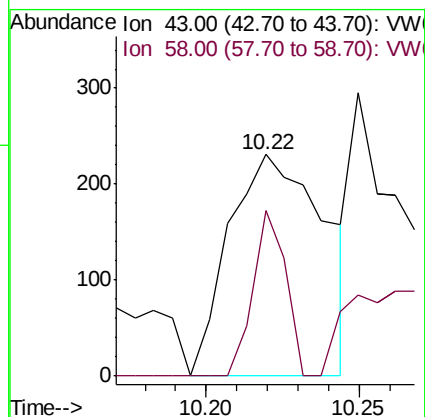
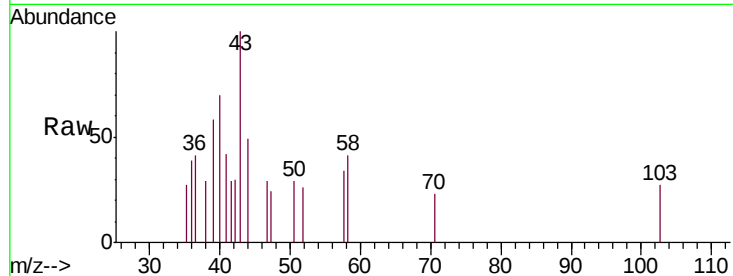




#51  
4-Methyl-2-Pentanone  
Concen: 1.103 ug/l  
RT: 10.22 min Scan# 1364  
Delta R.T. 0.01 min  
Lab File: VW008152.D  
Acq: 10 Jan 2019 16:48

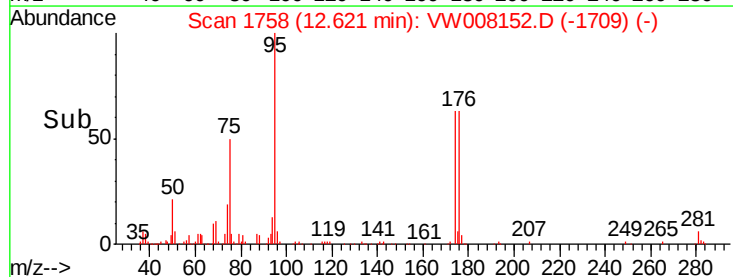
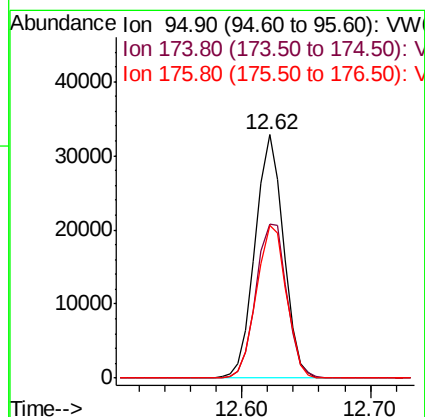
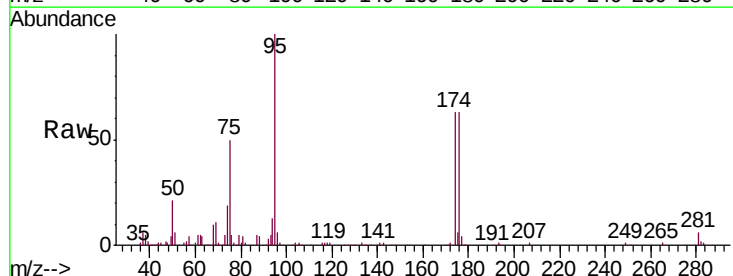
Instrument :  
MSVOA\_W  
ClientSampleId :  
BASIN-9

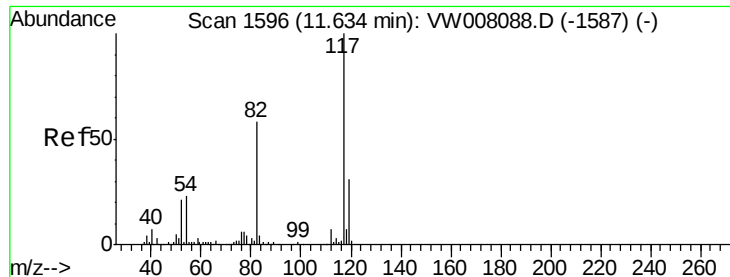
Tgt Ion: 43 Resp: 499  
Ion Ratio Lower Upper  
43 100  
58 25.5 30.6 46.0#



#62  
4-Bromofluorobenzene  
Concen: 50.386 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. -0.00 min  
Lab File: VW008152.D  
Acq: 10 Jan 2019 16:48

Tgt Ion: 95 Resp: 50057  
Ion Ratio Lower Upper  
95 100  
174 68.6 0.0 143.0  
176 66.1 0.0 140.2

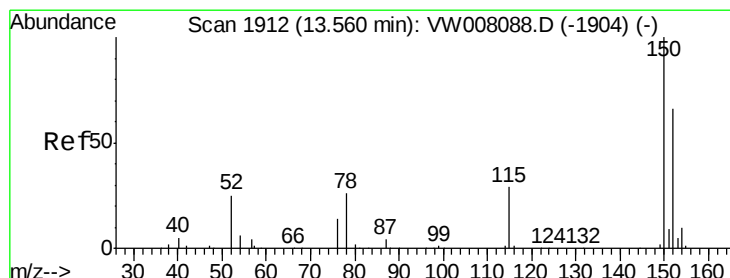
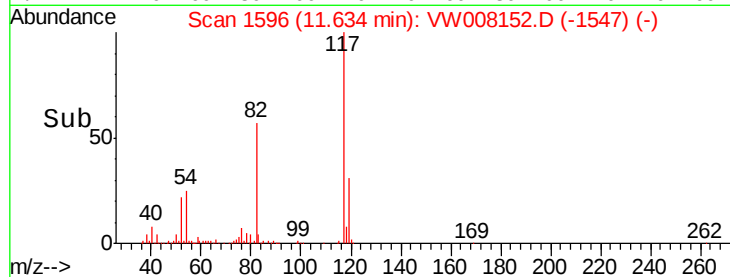
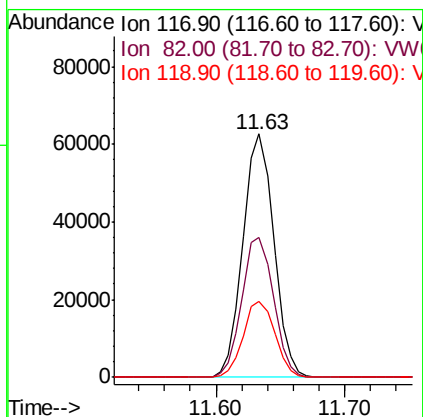
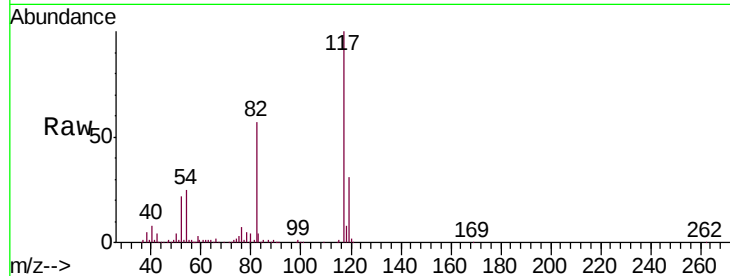




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW008152.D  
Acq: 10 Jan 2019 16:48

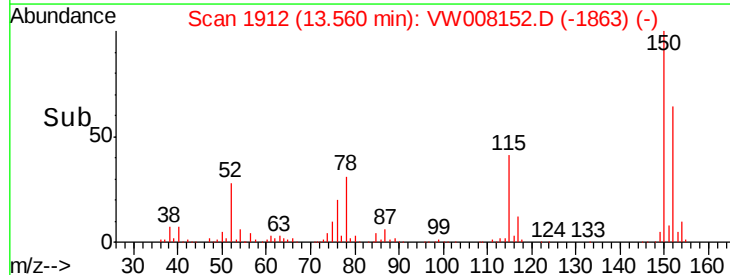
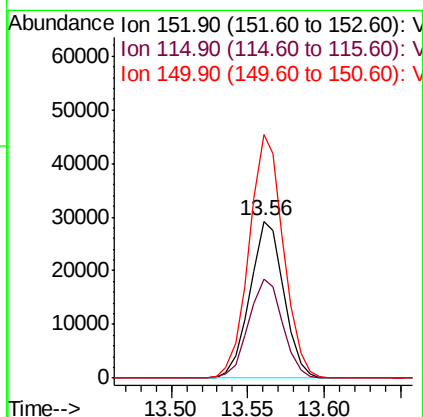
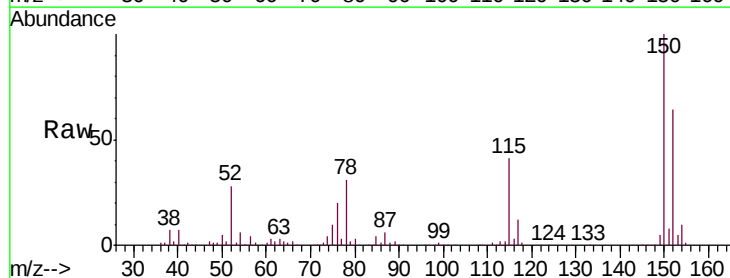
Instrument :  
MSVOA\_W  
ClientSampleId :  
BASIN-9

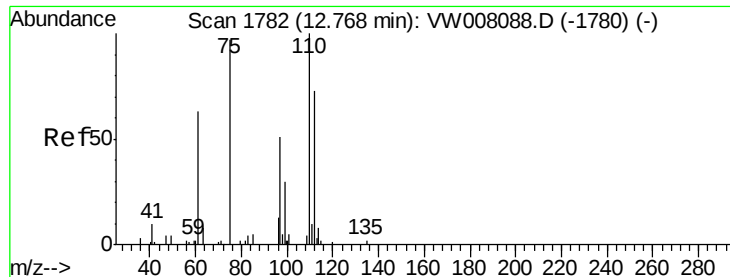
Tgt Ion:117 Resp: 104289  
Ion Ratio Lower Upper  
117 100  
82 57.5 46.4 69.6  
119 30.9 24.7 37.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW008152.D  
Acq: 10 Jan 2019 16:48

Tgt Ion:152 Resp: 45027  
Ion Ratio Lower Upper  
152 100  
115 63.9 30.8 92.4  
150 156.8 0.0 350.2





#76

1,2,3-Trichloropropane

Concen: 64.536 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008152.D

Acq: 10 Jan 2019 16:48

Instrument :

MSVOA\_W

ClientSampleId :

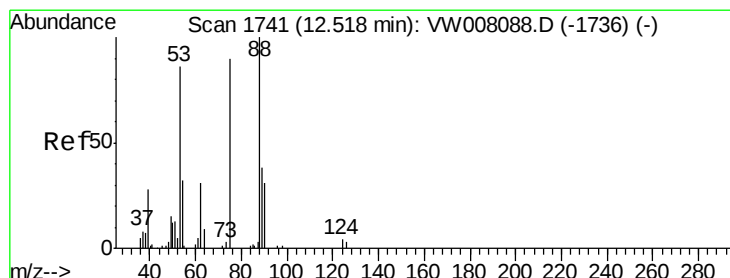
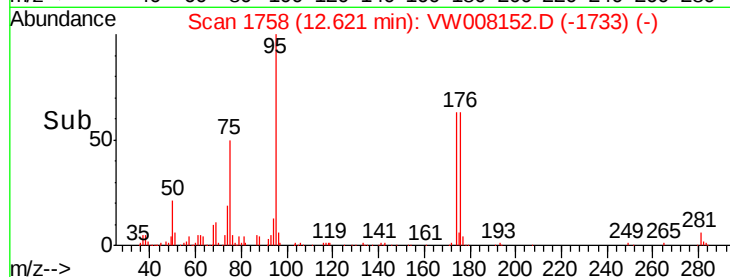
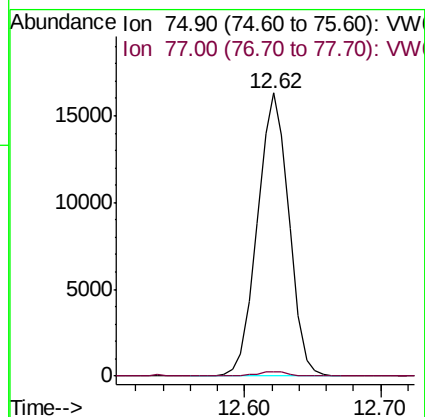
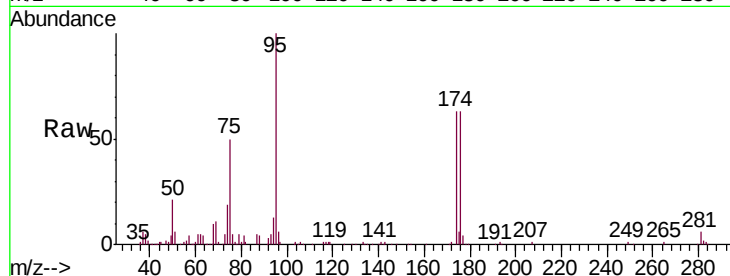
BASIN-9

Tgt Ion: 75 Resp: 26490

Ion Ratio Lower Upper

75 100

77 1.6 179.4 538.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 150.284 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW008152.D

Acq: 10 Jan 2019 16:48

Tgt Ion: 75 Resp: 26490

Ion Ratio Lower Upper

75 100

53 0.4 78.8 118.2#

89 0.0 35.4 53.2#

