

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW080319\  
 Data File : VW011640.D  
 Acq On : 03 Aug 2019 01:17  
 Operator : SY/VA  
 Sample : K4131-04  
 Misc : 5.26G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 1S-D3-(0-1)

Quant Time: Aug 04 00:07:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 264050   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 439797   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 368330   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 134973   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 169631   | 55.95 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 111.90% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 134348   | 54.45 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.90% |      |
| 50) Toluene-d8              | 10.32  | 98  | 551543   | 54.60 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 109.20% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 170441   | 47.32 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.64%  |      |

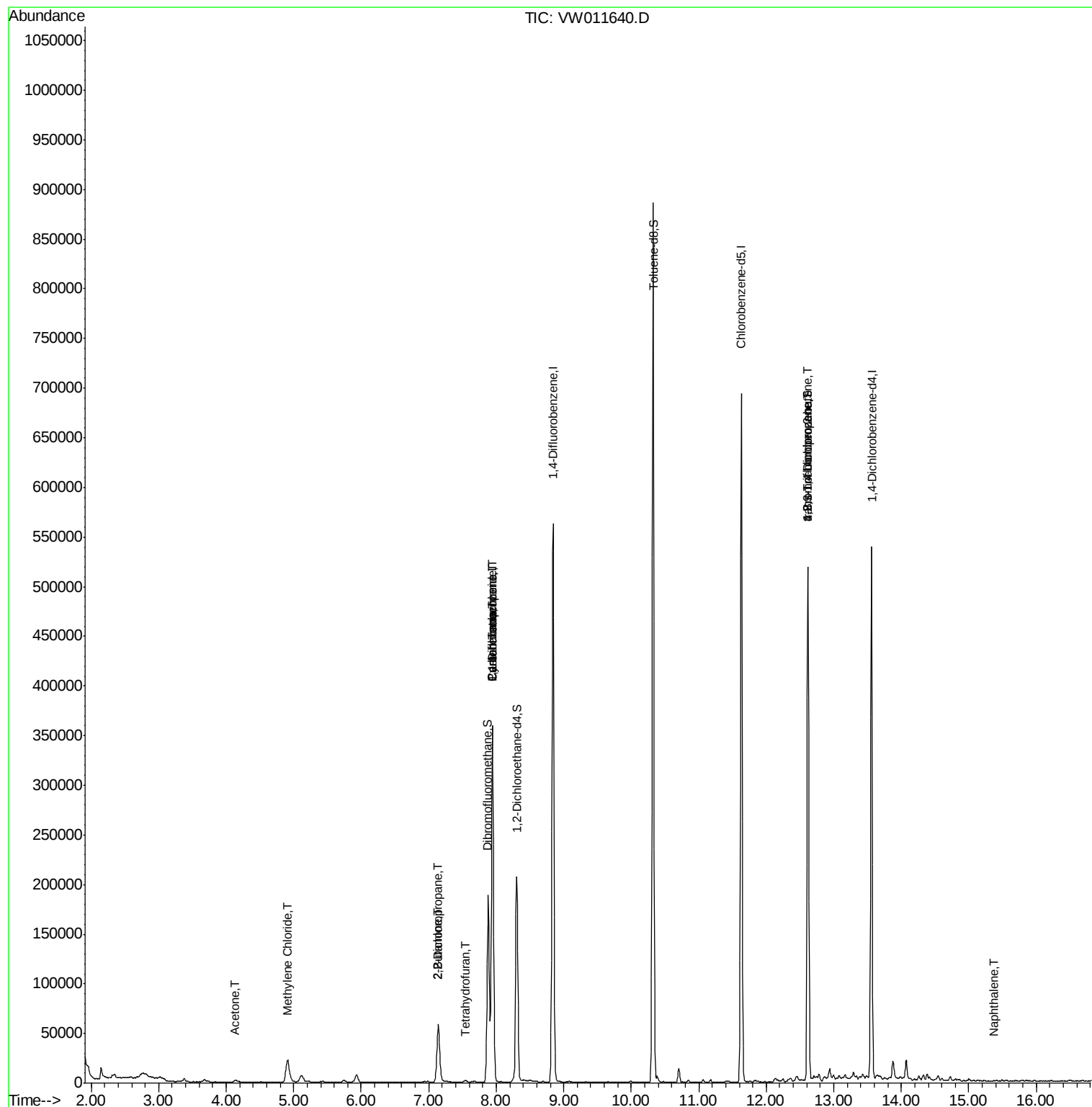
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.21  | 59   | 1213     | Below Cal | #      | 86     |
| 16) Acetone                    | 4.14  | 43   | 4663     | 4.835     | ug/l   | 90     |
| 20) Methylene Chloride         | 4.91  | 84   | 16042    | 4.823     | ug/l   | 97     |
| 25) 2-Butanone                 | 7.14  | 43   | 3809     | 3.018     | ug/l # | 89     |
| 26) 2,2-Dichloropropane        | 7.13  | 77   | 4121     | 1.135     | ug/l # | 54     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 1552     | 2.151     | ug/l   | 98     |
| 31) Cyclohexane                | 7.95  | 56   | 6600     | 1.164     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 22207    | 4.856     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 26570    | 6.787     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 89878    | 62.932    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 89878    | 145.037   | ug/l # | 6      |
| 95) Naphthalene                | 15.37 | 128  | 499      | 2.156     | ug/l # | 80     |

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

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1S-D3-(0-1)

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Quant Title : SW846 8260  
QLast Update : Sat Jul 27 00:23:30 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW011640.D

Acq: 03 Aug 2019 01:17

Instrument :

MSVOA\_W

ClientSampleId :

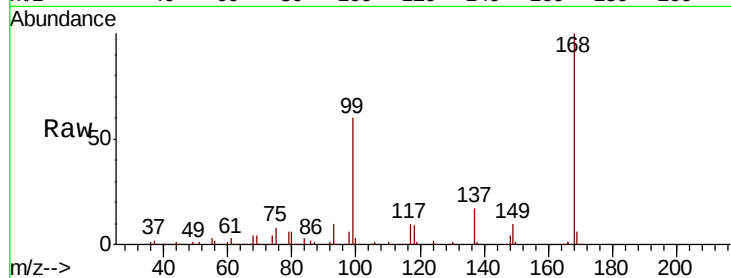
1S-D3-(0-1)

Tgt Ion:168 Resp: 264050

Ion Ratio Lower Upper

168 100

99 60.4 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

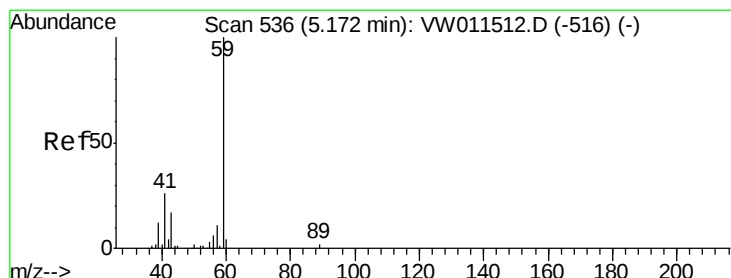
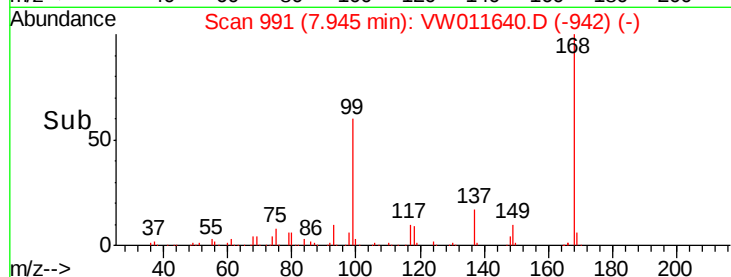
100000

50000

0

Time-->

7.90 8.00



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 542

Delta R.T. 0.04 min

Lab File: VW011640.D

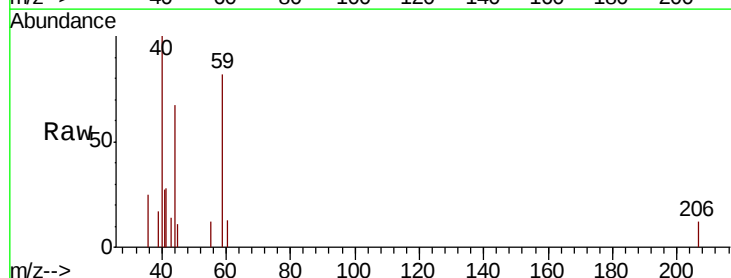
Acq: 03 Aug 2019 01:17

Tgt Ion: 59 Resp: 1213

Ion Ratio Lower Upper

59 100

57 5.4 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

1500

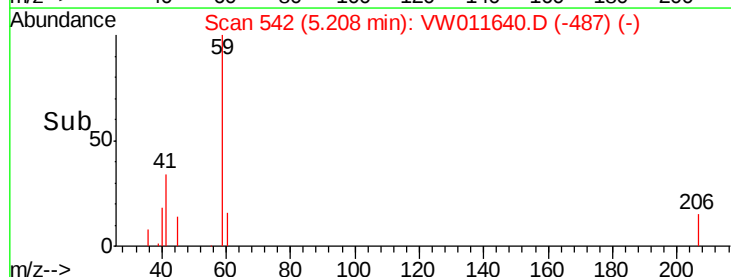
1000

500

0

Time-->

5.15 5.20 5.25 5.30





#16

Acetone

Concen: 4.835 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW011640.D

Acq: 03 Aug 2019 01:17

Instrument :

MSVOA\_W

ClientSampleId :

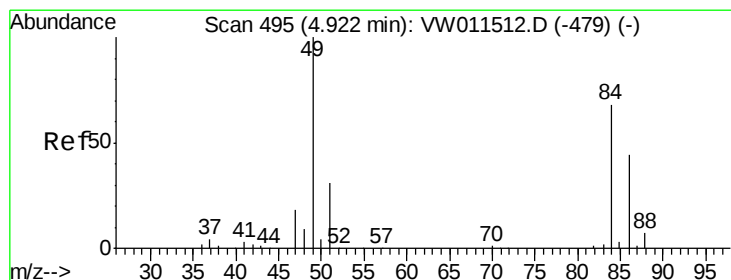
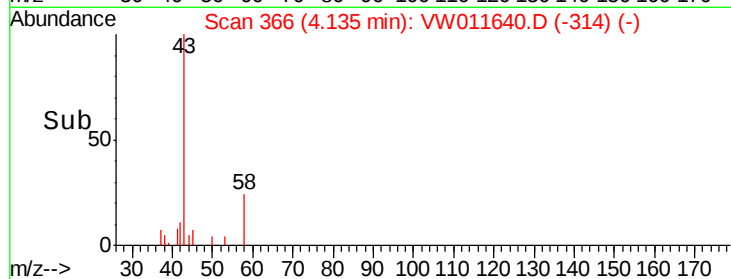
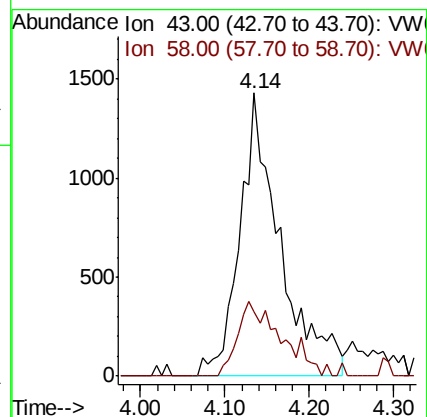
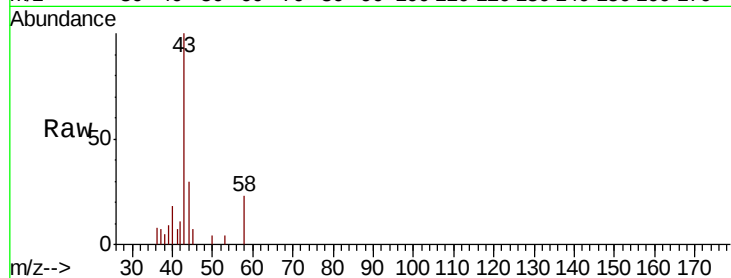
1S-D3-(0-1)

Tgt Ion: 43 Resp: 4663

Ion Ratio Lower Upper

43 100

58 22.9 22.3 33.5



#20

Methylene Chloride

Concen: 4.823 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW011640.D

Acq: 03 Aug 2019 01:17

Tgt Ion: 84 Resp: 16042

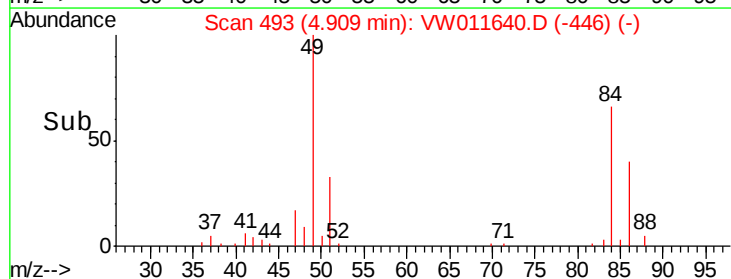
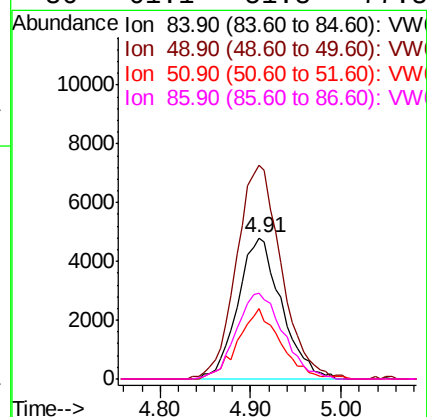
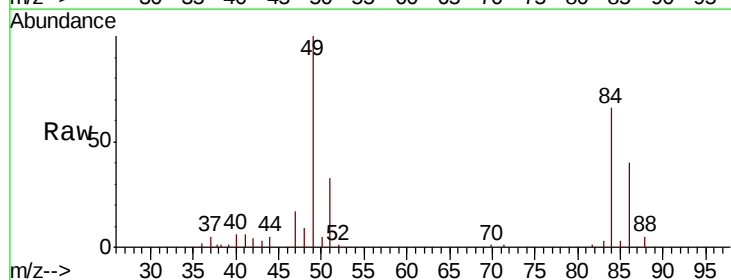
Ion Ratio Lower Upper

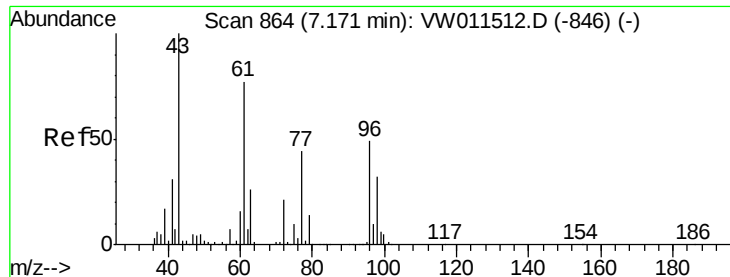
84 100

49 149.9 117.8 176.6

51 50.2 37.0 55.4

86 61.1 51.8 77.8





#25

2-Butanone

Concen: 3.018 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW011640.D

Acq: 03 Aug 2019 01:17

Instrument :

MSVOA\_W

ClientSampleId :

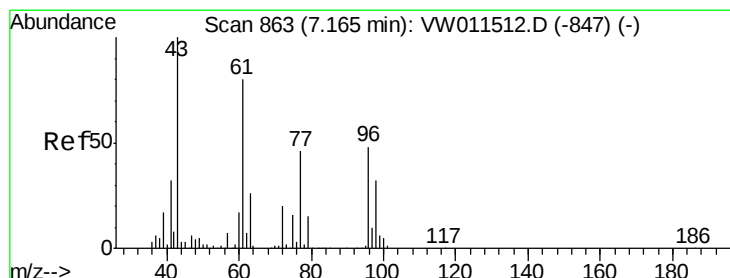
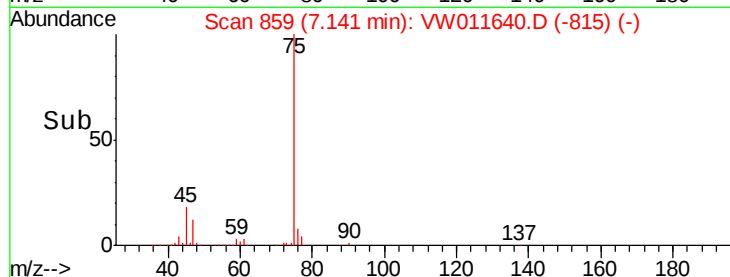
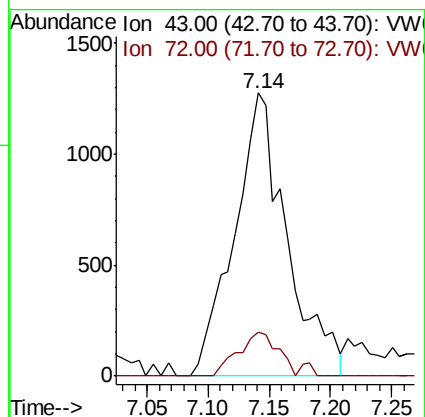
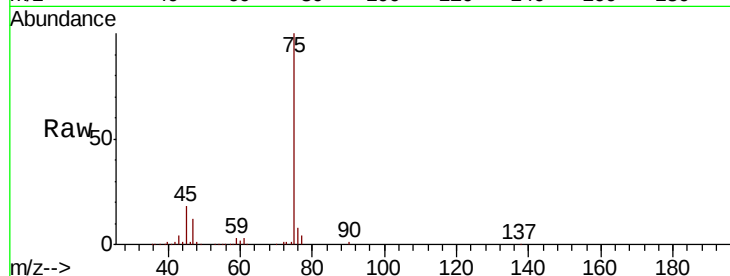
1S-D3-(0-1)

Tgt Ion: 43 Resp: 3809

Ion Ratio Lower Upper

43 100

72 15.5 16.6 24.8#



#26

2,2-Dichloropropane

Concen: 1.135 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW011640.D

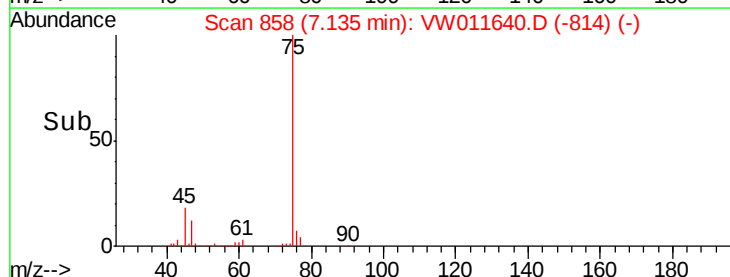
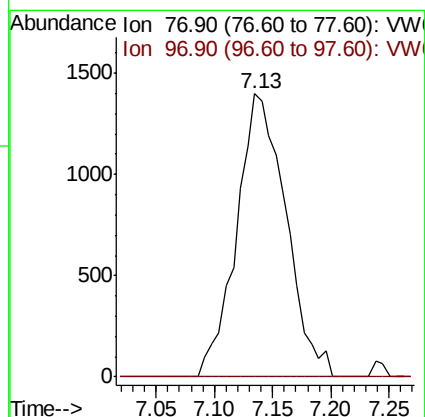
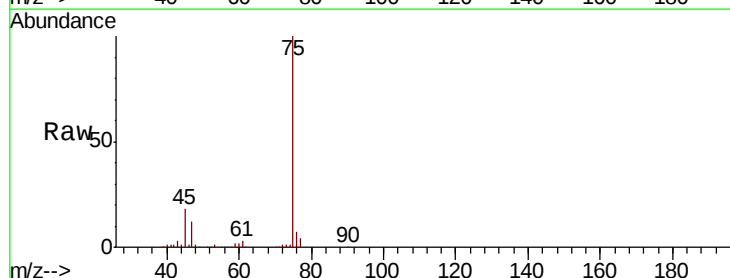
Acq: 03 Aug 2019 01:17

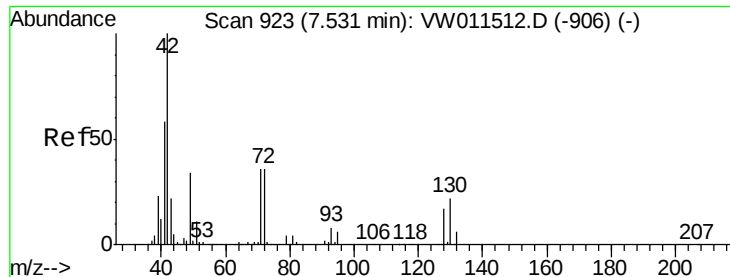
Tgt Ion: 77 Resp: 4121

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.4#





#29

Tetrahydrofuran

Concen: 2.151 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW011640.D

Acq: 03 Aug 2019 01:17

Instrument :

MSVOA\_W

ClientSampleId :

1S-D3-(0-1)

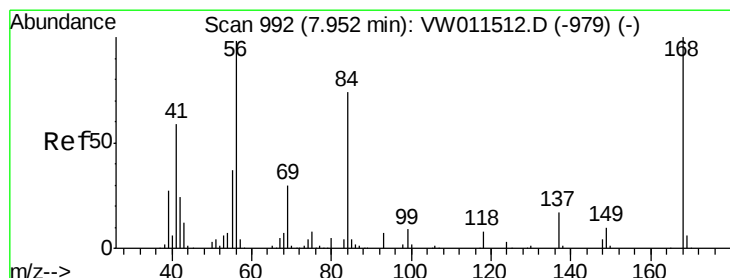
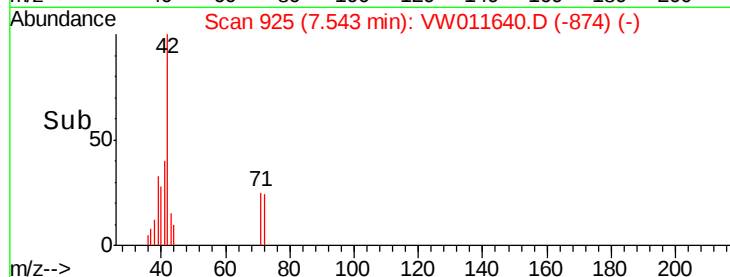
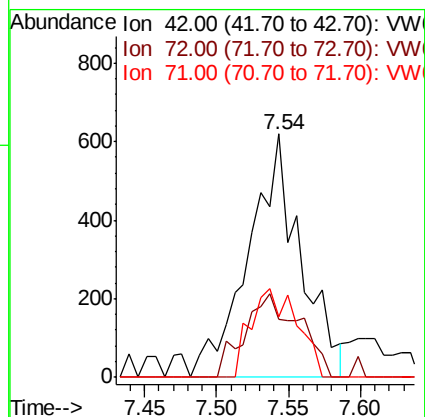
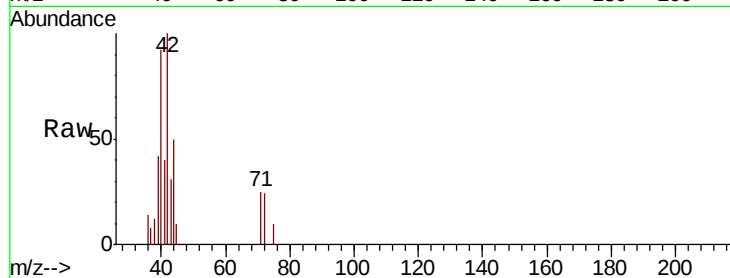
Tgt Ion: 42 Resp: 1552

Ion Ratio Lower Upper

42 100

72 36.3 27.1 40.7

71 32.5 26.2 39.4



#31

Cyclohexane

Concen: 1.164 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011640.D

Acq: 03 Aug 2019 01:17

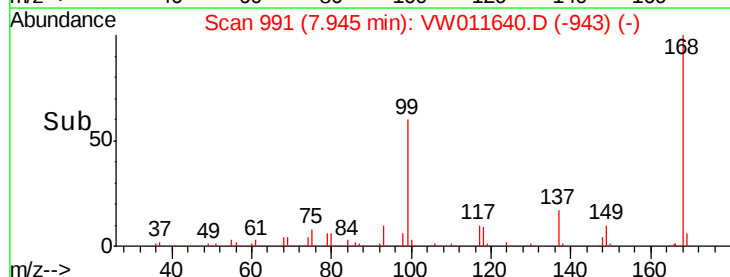
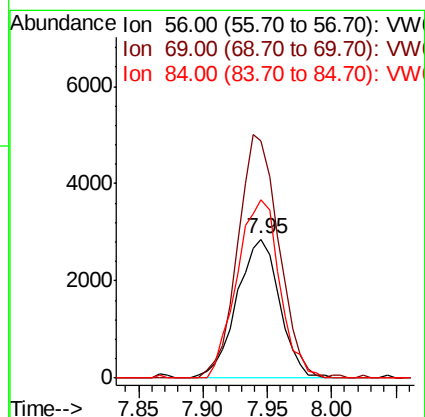
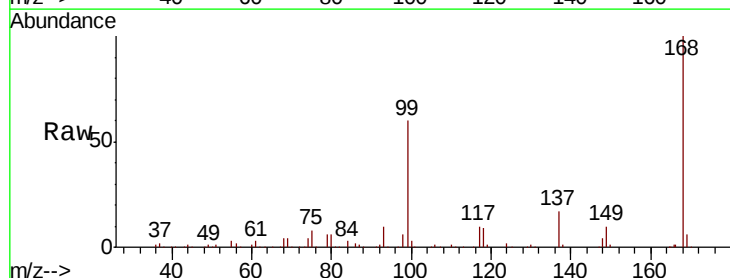
Tgt Ion: 56 Resp: 6600

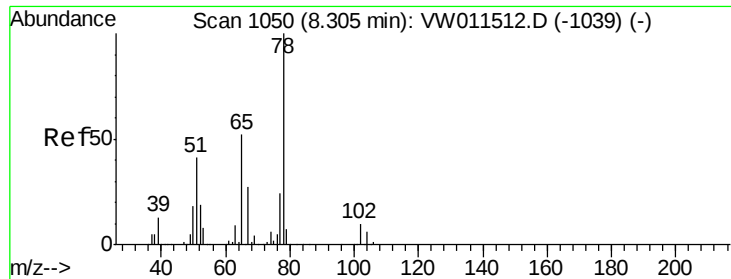
Ion Ratio Lower Upper

56 100

69 170.6 24.3 36.5#

84 128.4 60.4 90.6#





#33

1,2-Dichloroethane-d4

Concen: 55.946 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW011640.D

Acq: 03 Aug 2019 01:17

Instrument :

MSVOA\_W

ClientSampleId :

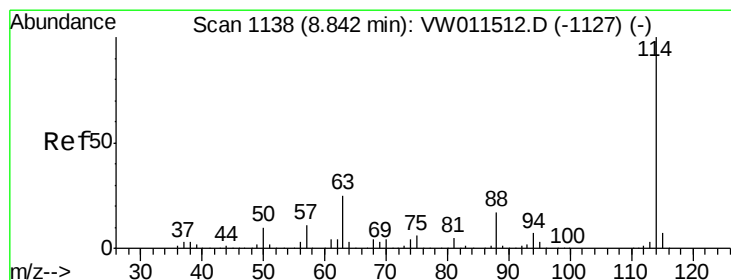
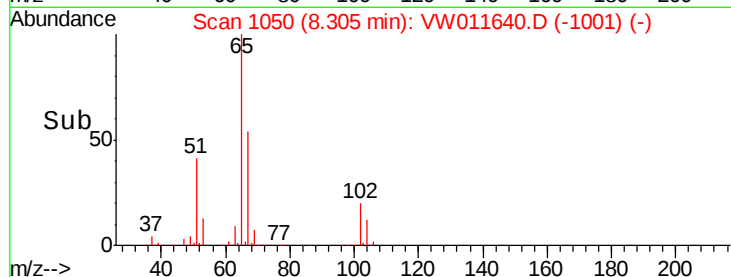
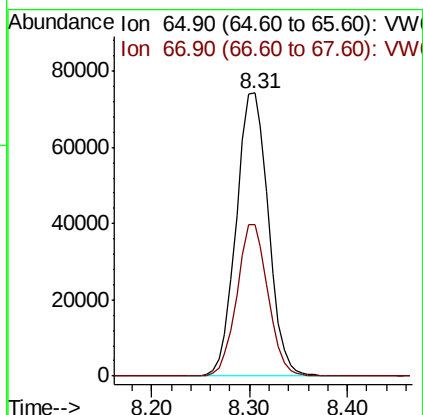
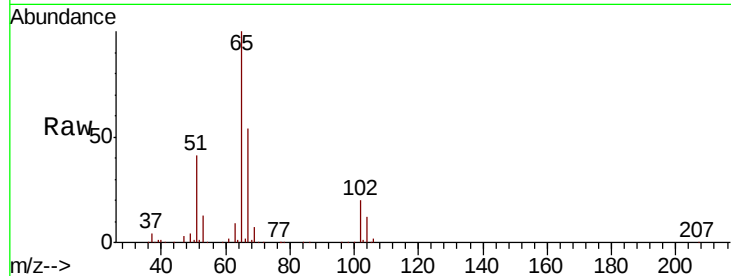
1S-D3-(0-1)

Tgt Ion: 65 Resp: 169631

Ion Ratio Lower Upper

65 100

67 52.0 0.0 105.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW011640.D

Acq: 03 Aug 2019 01:17

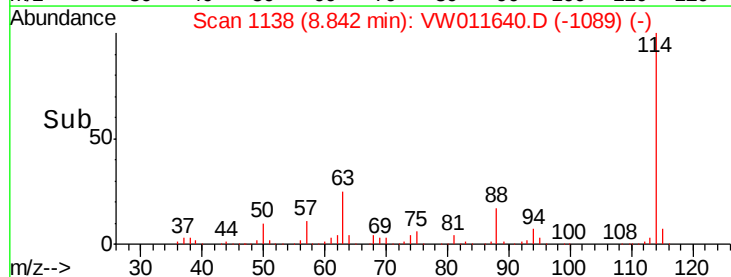
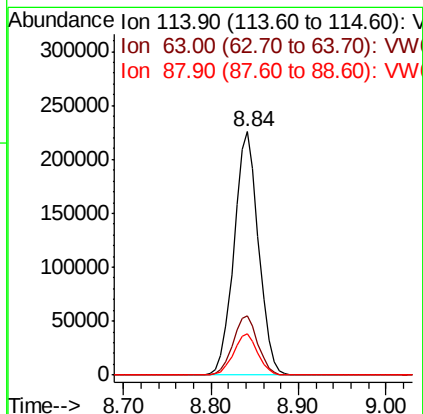
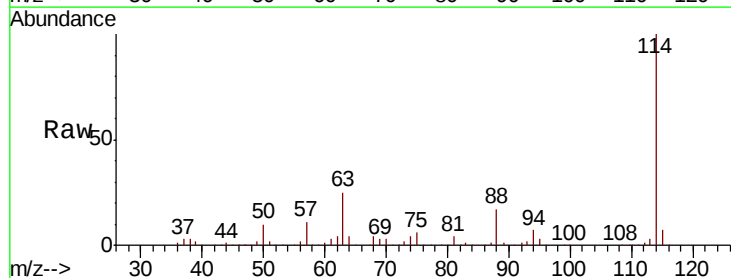
Tgt Ion: 114 Resp: 439797

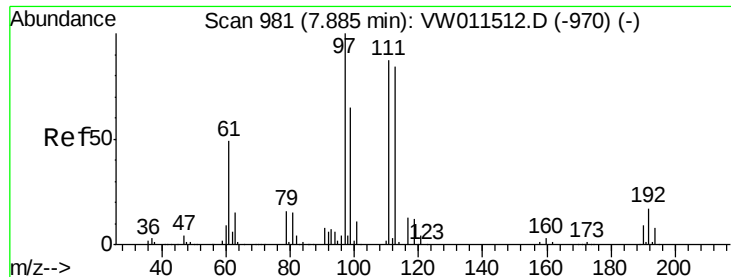
Ion Ratio Lower Upper

114 100

63 24.5 0.0 49.2

88 16.9 0.0 33.8

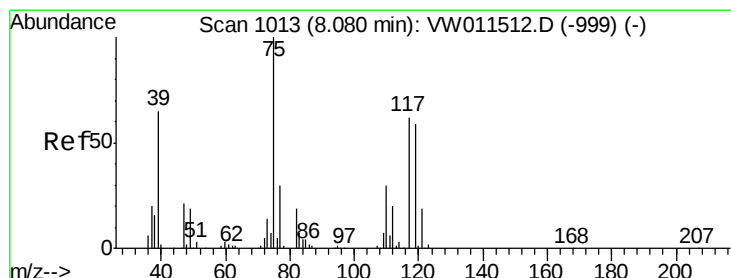
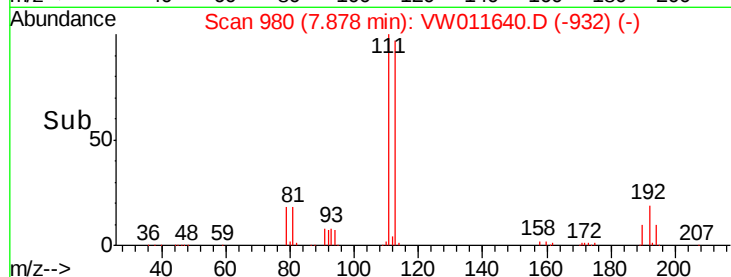
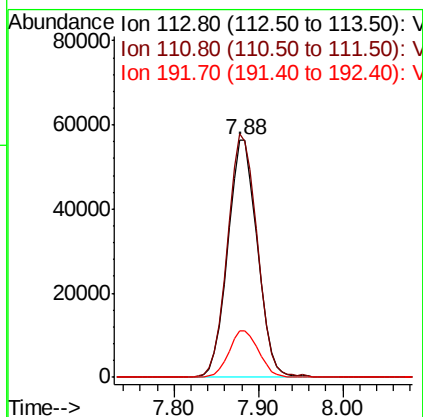
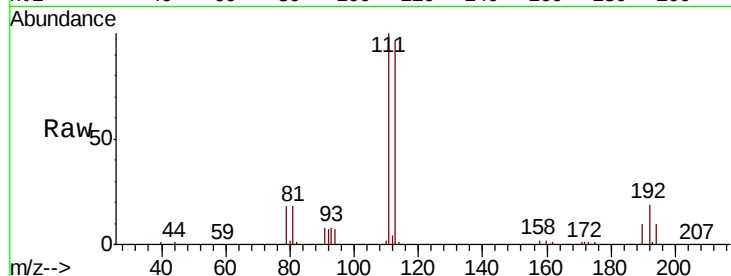




#35  
 Dibromofluoromethane  
 Concen: 54.451 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. -0.01 min  
 Lab File: VW011640.D  
 Acq: 03 Aug 2019 01:17

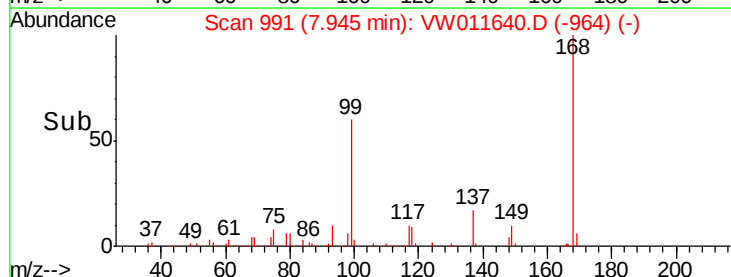
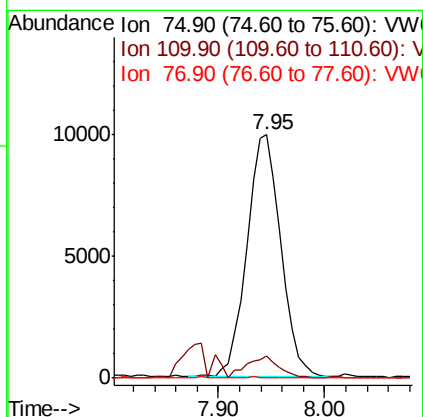
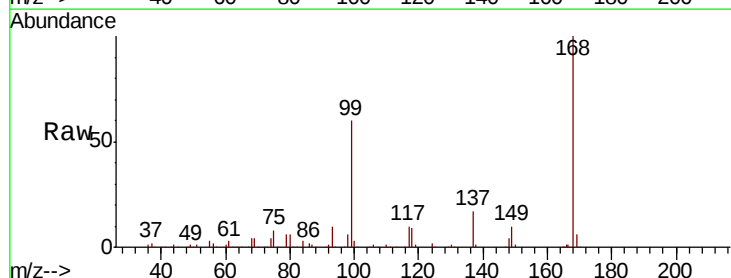
Instrument :  
 MSVOA\_W  
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 1S-D3-(0-1)

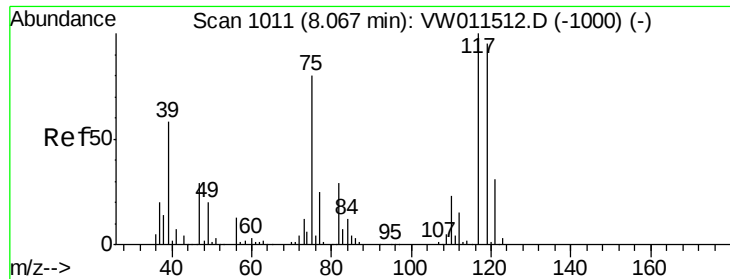
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.0 | 82.7  | 124.1 |
| 192     | 19.7  | 16.1  | 24.1  |



#36  
 1,1-Dichloropropene  
 Concen: 4.856 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW011640.D  
 Acq: 03 Aug 2019 01:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.8   | 15.6  | 46.8# |
| 77      | 0.1   | 24.3  | 36.5# |

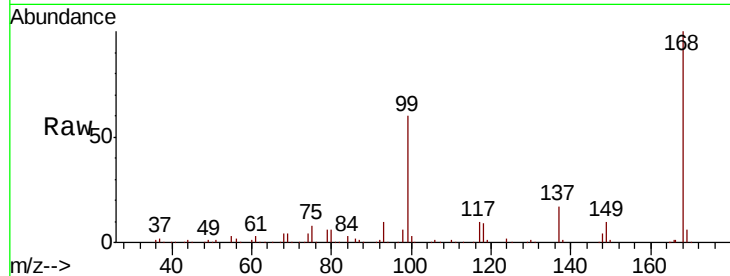




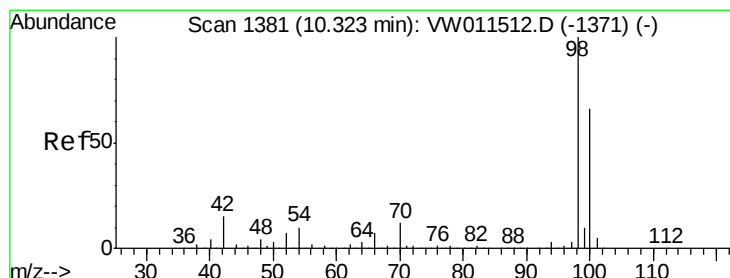
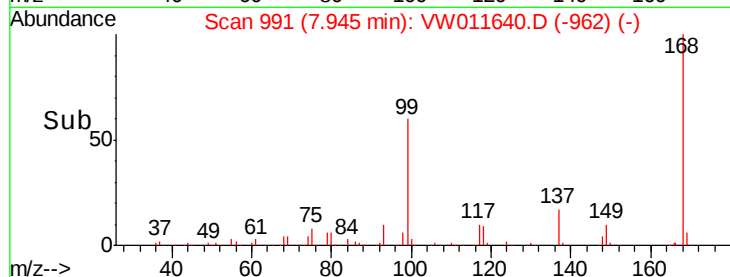
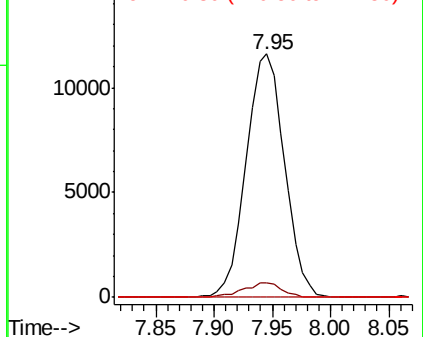
#38  
Carbon Tetrachloride  
Concen: 6.787 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW011640.D  
Acq: 03 Aug 2019 01:17

Instrument :  
MSVOA\_W  
ClientSampleId :  
1S-D3-(0-1)

Tgt Ion:117 Resp: 26570  
Ion Ratio Lower Upper  
117 100  
119 5.9 75.8 113.6#  
121 0.0 24.7 37.1#

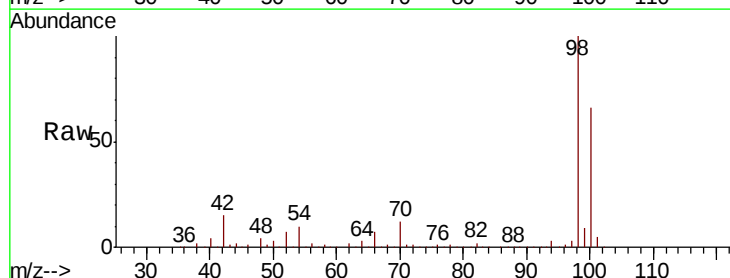


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

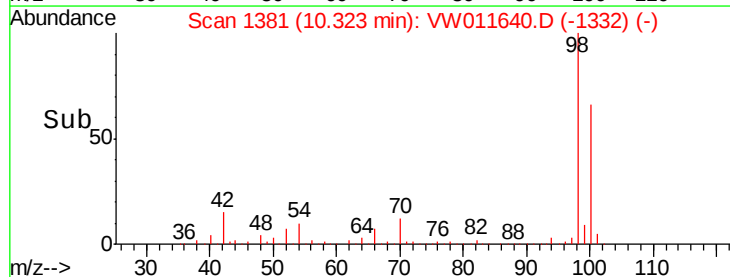
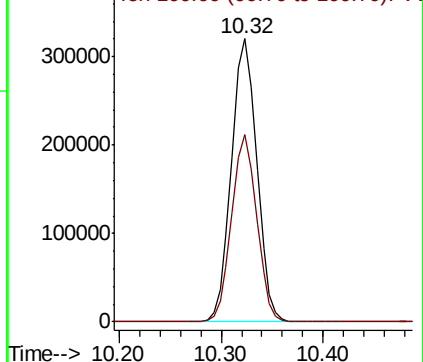


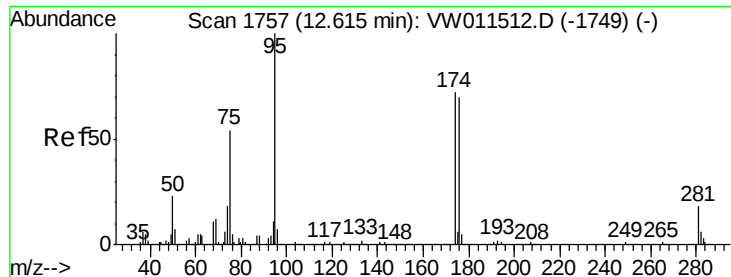
#50  
Toluene-d8  
Concen: 54.597 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW011640.D  
Acq: 03 Aug 2019 01:17

Tgt Ion: 98 Resp: 551543  
Ion Ratio Lower Upper  
98 100  
100 65.3 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW  
Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 47.324 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW011640.D

Acq: 03 Aug 2019 01:17

Instrument :

MSVOA\_W

ClientSampleId :

1S-D3-(0-1)

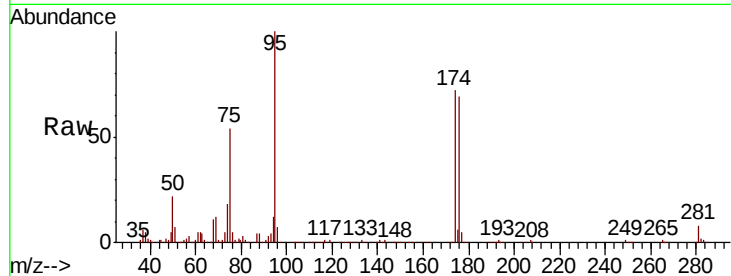
Tgt Ion: 95 Resp: 170441

Ion Ratio Lower Upper

95 100

174 75.1 0.0 150.2

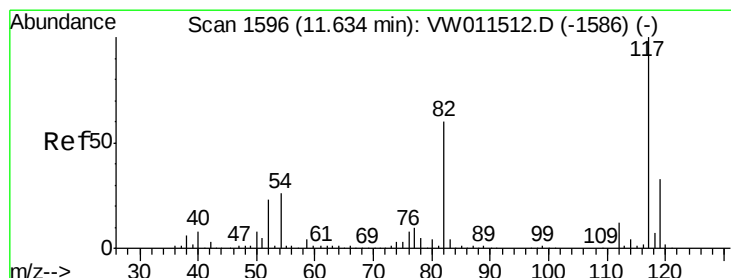
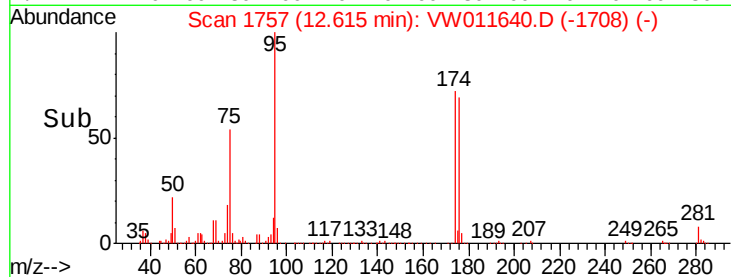
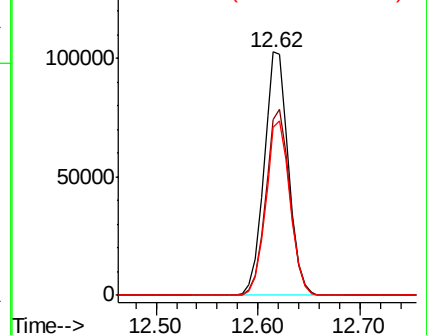
176 71.2 0.0 144.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW011640.D

Acq: 03 Aug 2019 01:17

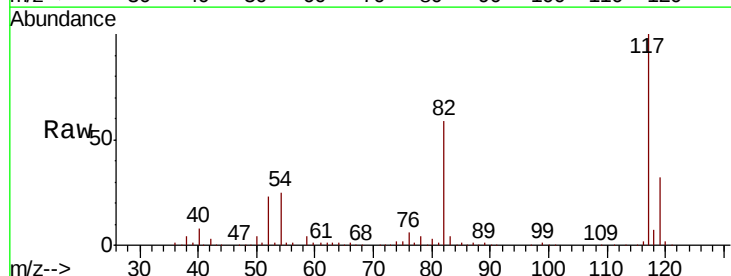
Tgt Ion: 117 Resp: 368330

Ion Ratio Lower Upper

117 100

82 58.5 47.9 71.9

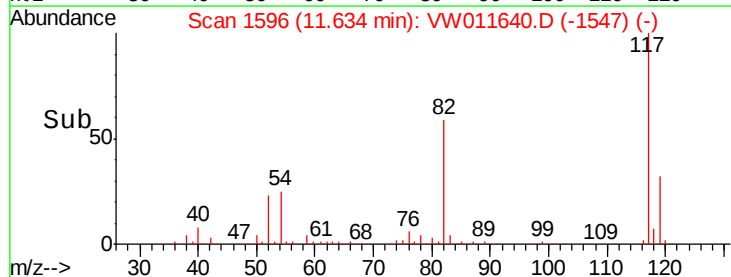
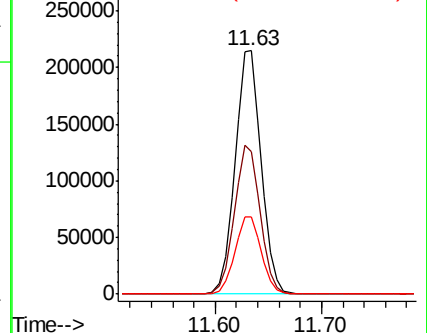
119 31.8 26.2 39.2



Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW011640.D

Acq: 03 Aug 2019 01:17

Instrument :

MSVOA\_W

ClientSampleId :

1S-D3-(0-1)

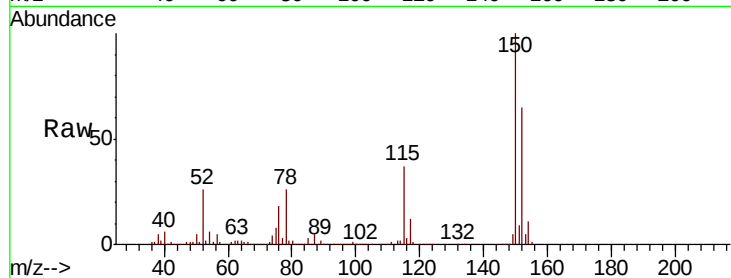
Tgt Ion: 152 Resp: 134973

Ion Ratio Lower Upper

152 100

115 60.0 30.5 91.5

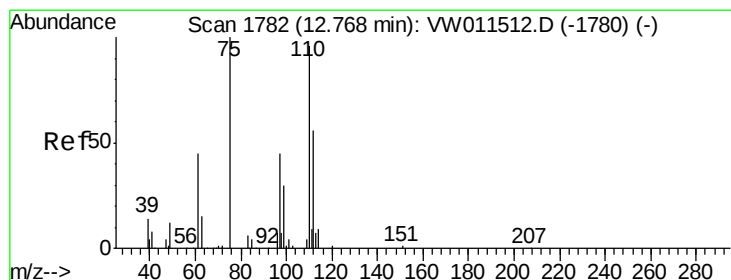
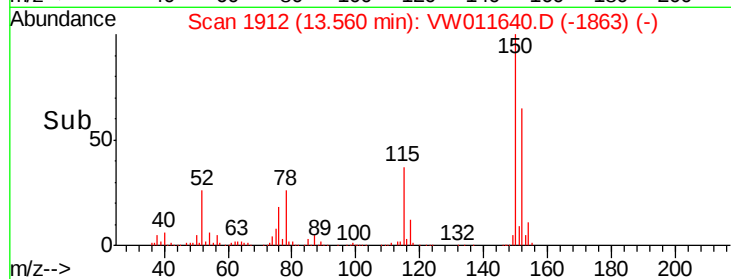
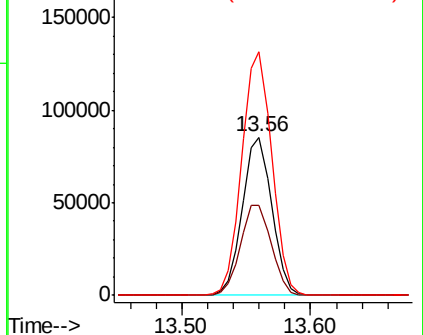
150 156.7 0.0 352.6



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



#76

1,2,3-Trichloropropane

Concen: 62.932 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011640.D

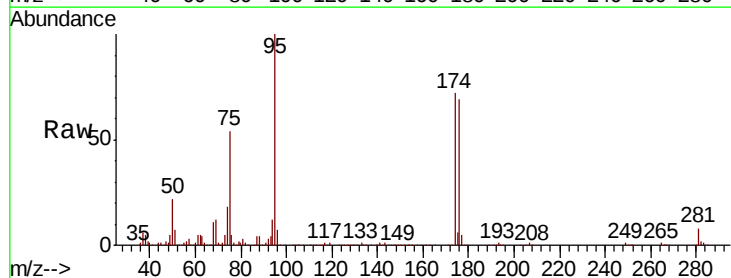
Acq: 03 Aug 2019 01:17

Tgt Ion: 75 Resp: 89878

Ion Ratio Lower Upper

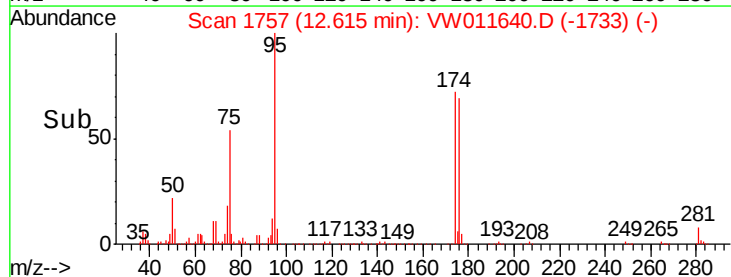
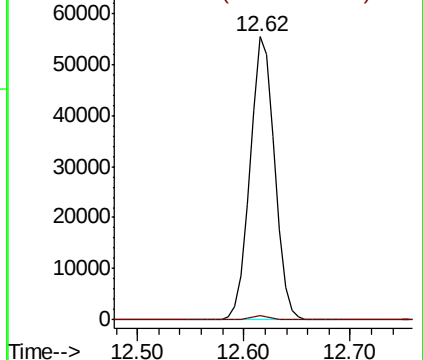
75 100

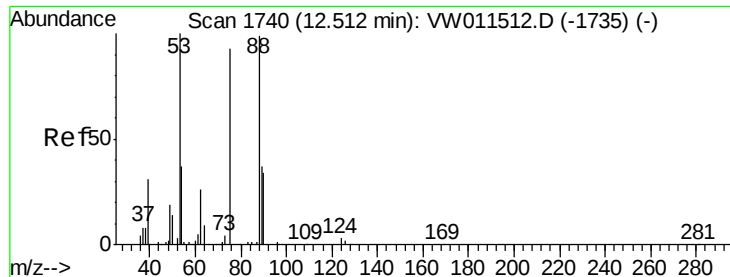
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 145.037 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011640.D

Acq: 03 Aug 2019 01:17

Instrument :

MSVOA\_W

ClientSampleId :

1S-D3-(0-1)

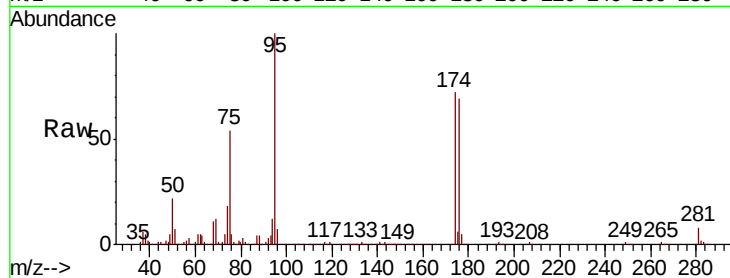
Tgt Ion: 75 Resp: 89878

Ion Ratio Lower Upper

75 100

53 0.3 88.0 132.0#

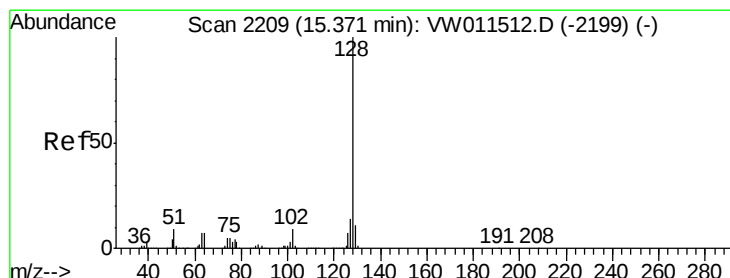
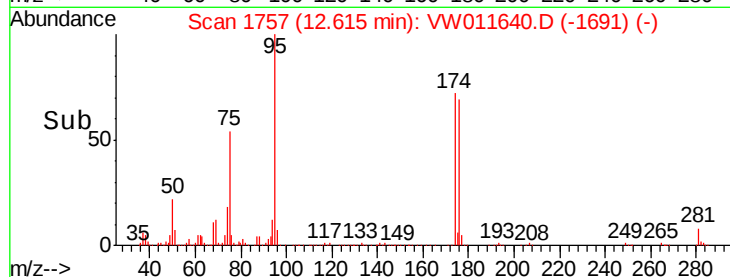
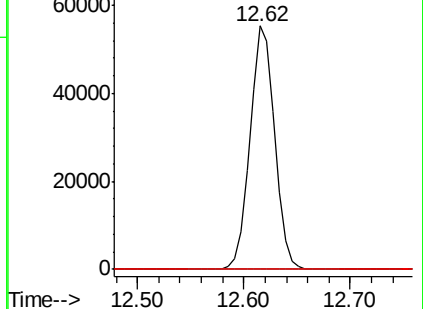
89 0.1 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#95

Naphthalene

Concen: 2.156 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011640.D

Acq: 03 Aug 2019 01:17

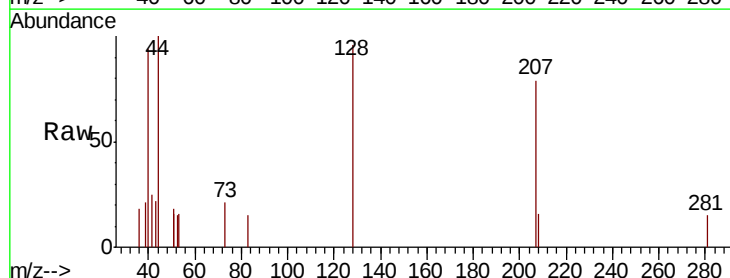
Tgt Ion: 128 Resp: 499

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 9.6 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

