

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW080419\  
 Data File : VW011664.D  
 Acq On : 03 Aug 2019 14:30  
 Operator : SY/VA  
 Sample : K4152-03  
 Misc : 5.32G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 2S-H2-(0-1)

Quant Time: Aug 04 01:44:17 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

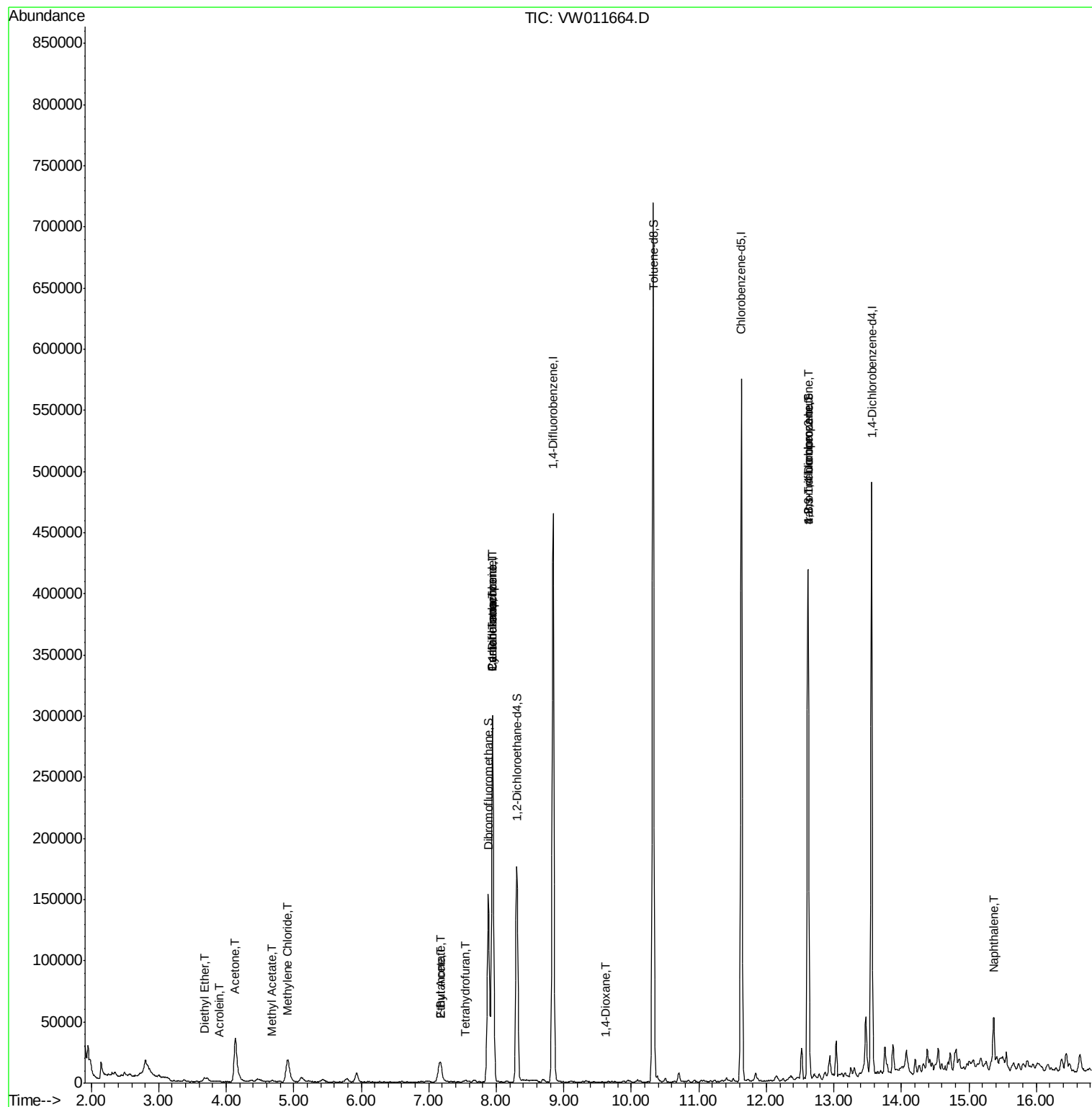
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.95  | 168  | 215827   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.84  | 114  | 360552   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.63 | 117  | 295589   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.56 | 152  | 115993   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.30  | 65   | 141158   | 56.96     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 113.92% |          |
| 35) Dibromofluoromethane       | 7.88  | 113  | 110708   | 54.73     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 109.46% |          |
| 50) Toluene-d8                 | 10.32 | 98   | 445028   | 53.74     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 107.48% |          |
| 62) 4-Bromofluorobenzene       | 12.62 | 95   | 136865   | 46.35     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 92.70%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 8) Diethyl Ether               | 3.68  | 74   | 1600     | 1.257     | ug/l #  | 46       |
| 11) Tert butyl alcohol         | 5.22  | 59   | 547      | Below Cal | #       | 93       |
| 13) Acrolein                   | 3.91  | 56   | 380      | 2.137     | ug/l #  | 15       |
| 16) Acetone                    | 4.13  | 43   | 72768    | 92.305    | ug/l    | 99       |
| 18) Methyl Acetate             | 4.68  | 43   | 1822     | 1.029     | ug/l    | 93       |
| 20) Methylene Chloride         | 4.91  | 84   | 14858    | 5.465     | ug/l    | 96       |
| 25) 2-Butanone                 | 7.18  | 43   | 21310    | 20.658    | ug/l    | 99       |
| 29) Tetrahydrofuran            | 7.54  | 42   | 766      | 1.299     | ug/l    | 94       |
| 31) Cyclohexane                | 7.95  | 56   | 5692     | 1.228     | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 18866    | 5.032     | ug/l #  | 52       |
| 37) Ethyl Acetate              | 7.18  | 43   | 21310    | 9.880     | ug/l #  | 73       |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 22258    | 6.935     | ug/l #  | 17       |
| 49) 1,4-Dioxane                | 9.62  | 88   | 23       | 1.239     | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 73042    | 59.512    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 73042    | 137.156   | ug/l #  | 6        |
| 95) Naphthalene                | 15.36 | 128  | 35467    | 9.491     | ug/l    | 99       |

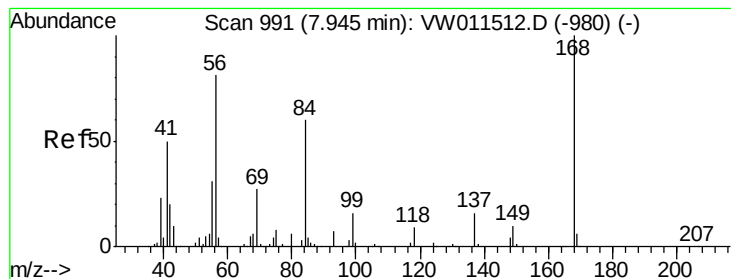
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_W  
ClientSampleId :  
2S-H2-(0-1)

Quant Time: Aug 04 01:44:17 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
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: VW011664.D

Acq: 03 Aug 2019 14:30

Instrument :

MSVOA\_W

ClientSampled :

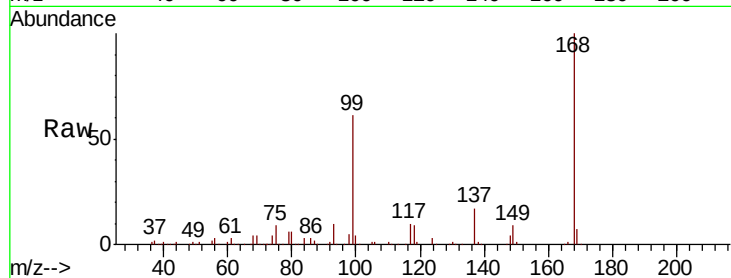
2S-H2-(0-1)

Tgt Ion:168 Resp: 215827

Ion Ratio Lower Upper

168 100

99 61.2 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

80000

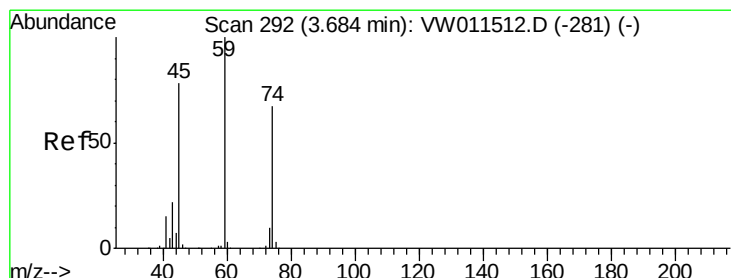
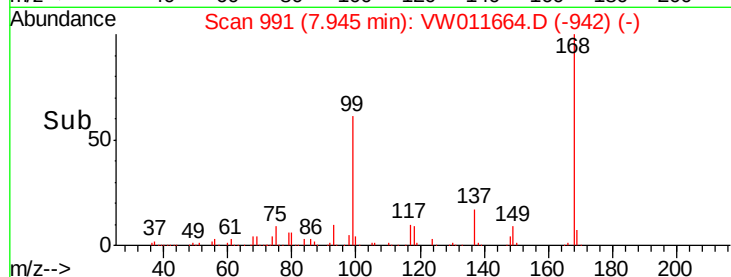
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#8

Diethyl Ether

Concen: 1.257 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.01 min

Lab File: VW011664.D

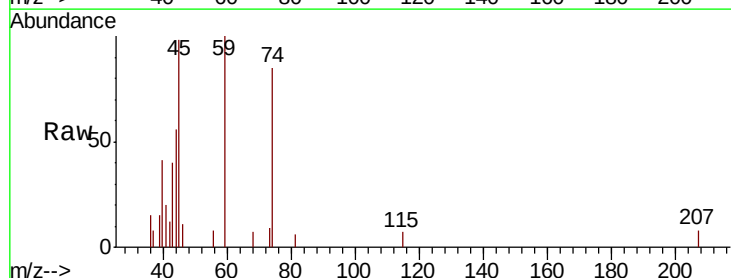
Acq: 03 Aug 2019 14:30

Tgt Ion: 74 Resp: 1600

Ion Ratio Lower Upper

74 100

45 178.9 59.6 178.8#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

1000

800

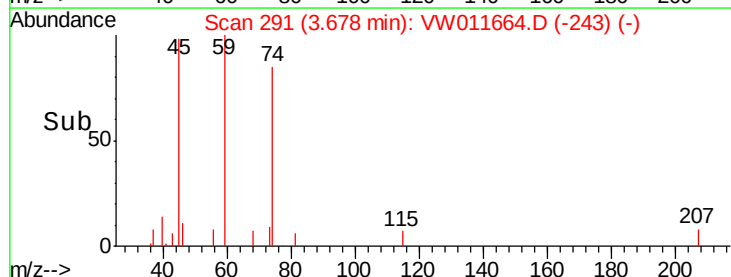
600

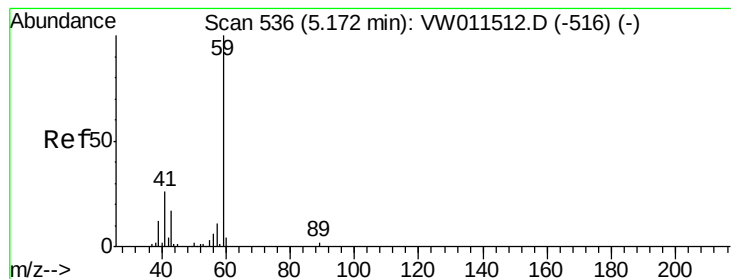
400

200

0

Time--> 3.60 3.65 3.70 3.75



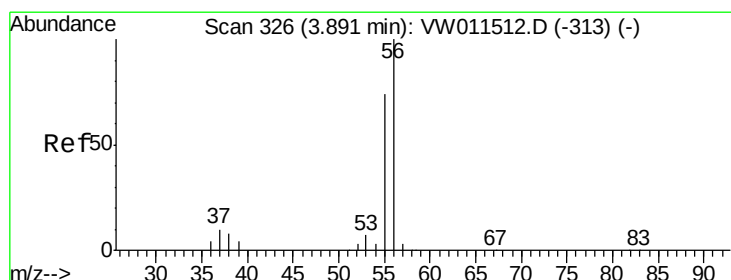
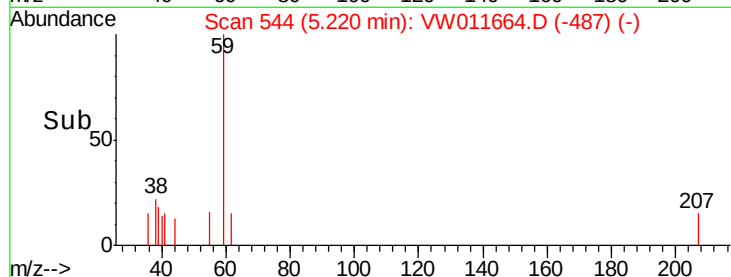
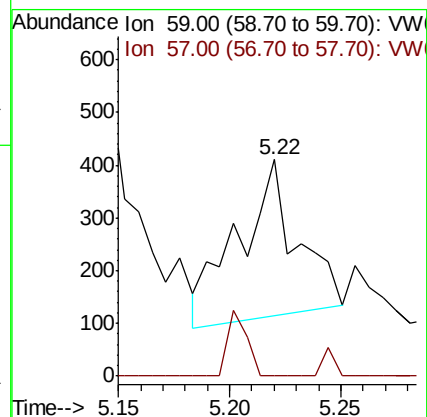
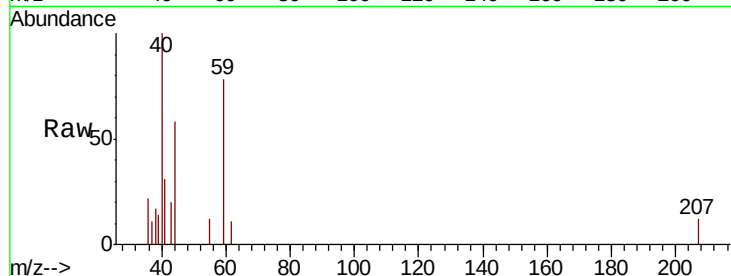


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.22 min Scan# 544  
 Delta R.T. 0.05 min  
 Lab File: VW011664.D  
 Acq: 03 Aug 2019 14:30

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 2S-H2-(0-1)

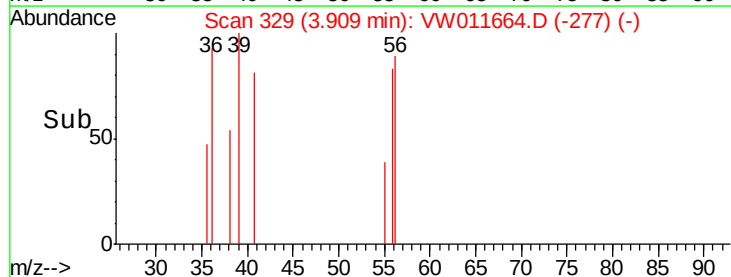
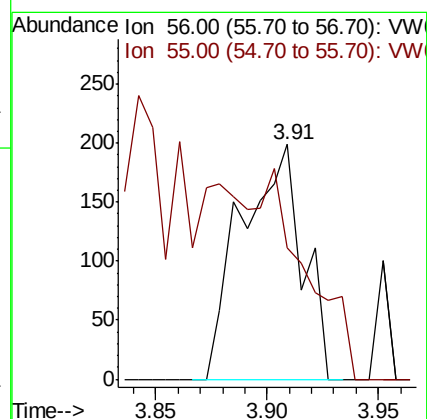
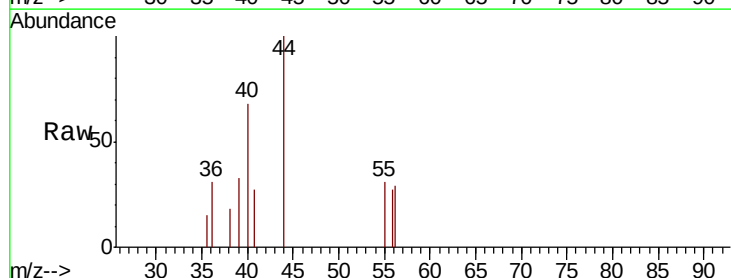
Tgt Ion: 59 Resp: 547  
 Ion Ratio Lower Upper  
 59 100  
 57 13.3 8.5 12.7#

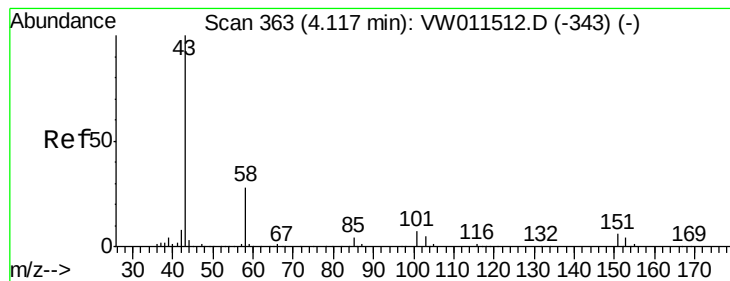


#13

Acrolein  
 Concen: 2.137 ug/l  
 RT: 3.91 min Scan# 329  
 Delta R.T. 0.02 min  
 Lab File: VW011664.D  
 Acq: 03 Aug 2019 14:30

Tgt Ion: 56 Resp: 380  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 56.0 84.0#





#16

Acetone

Concen: 92.305 ug/l

RT: 4.13 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW011664.D

Acq: 03 Aug 2019 14:30

Instrument :

MSVOA\_W

ClientSampleId :

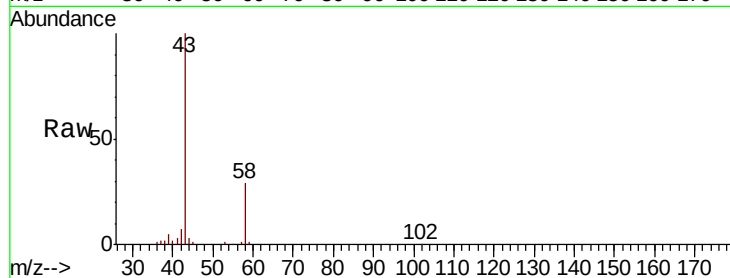
2S-H2-(0-1)

Tgt Ion: 43 Resp: 72768

Ion Ratio Lower Upper

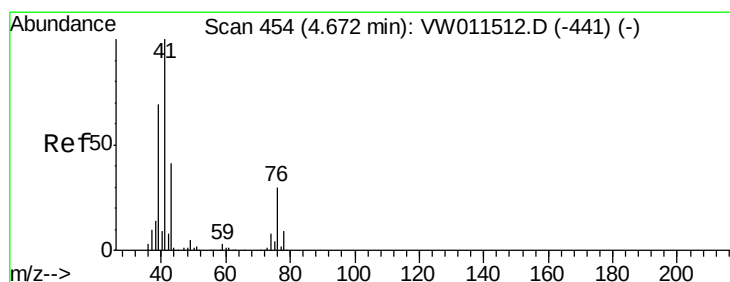
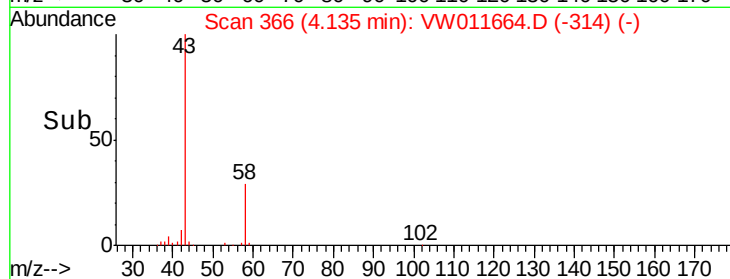
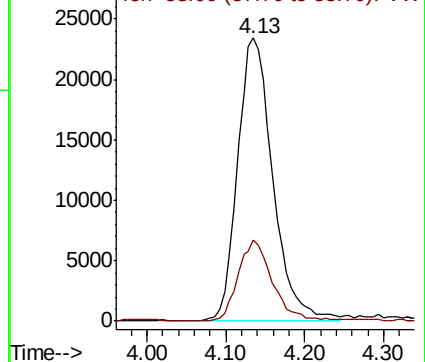
43 100

58 28.7 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#18

Methyl Acetate

Concen: 1.029 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW011664.D

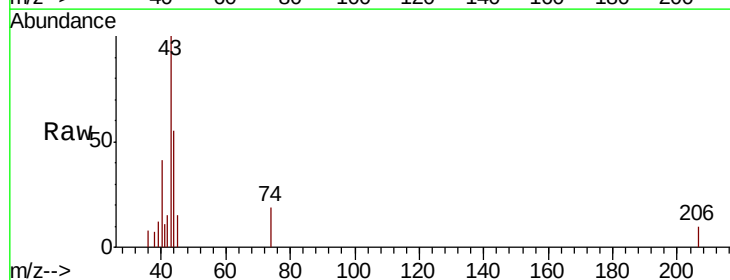
Acq: 03 Aug 2019 14:30

Tgt Ion: 43 Resp: 1822

Ion Ratio Lower Upper

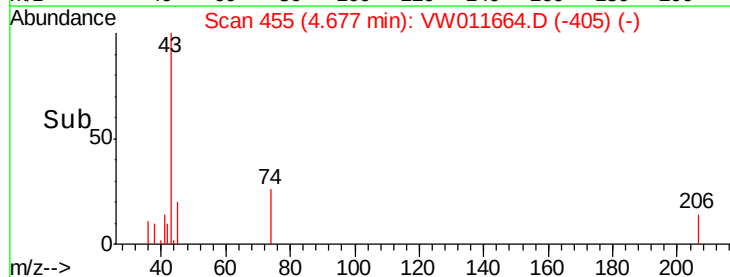
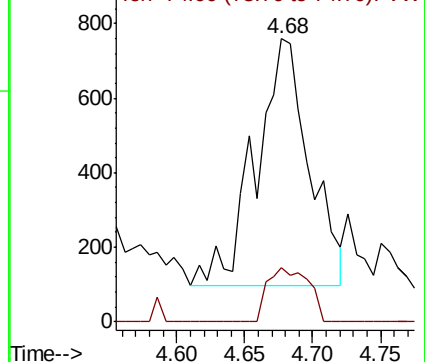
43 100

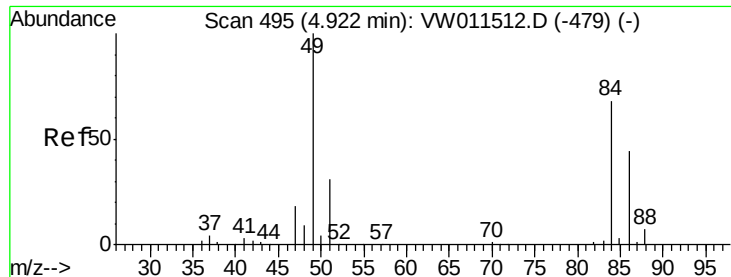
74 16.7 15.9 23.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

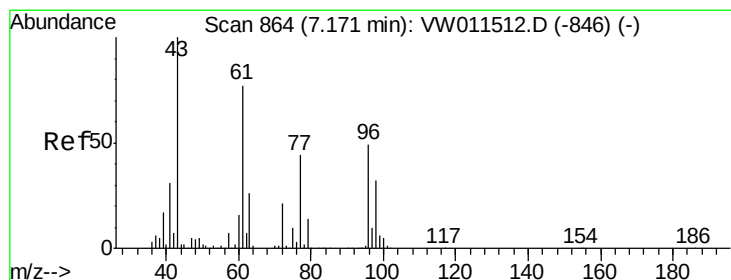
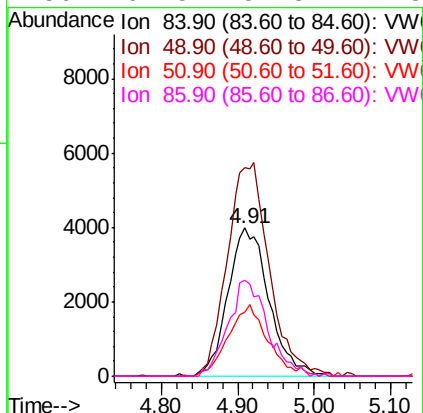
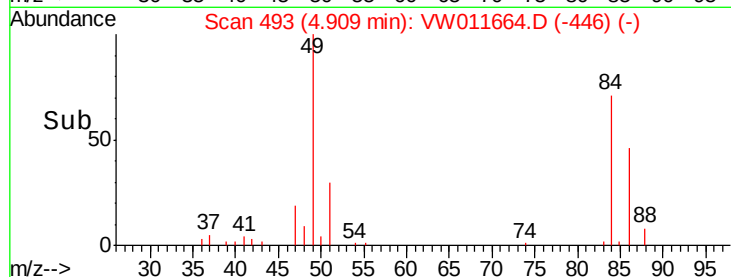
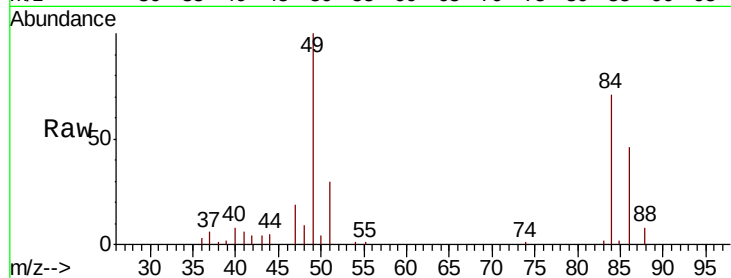




#20  
Methylene Chloride  
Concen: 5.465 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW011664.D  
Acq: 03 Aug 2019 14:30

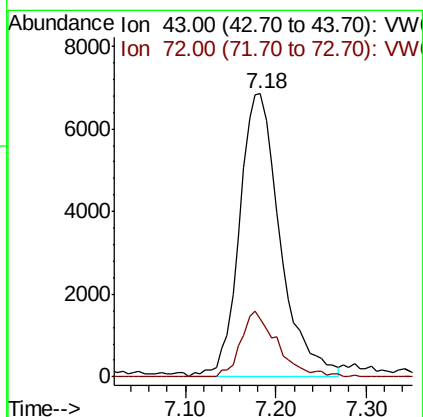
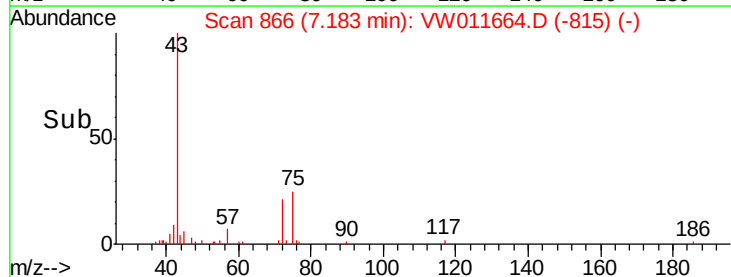
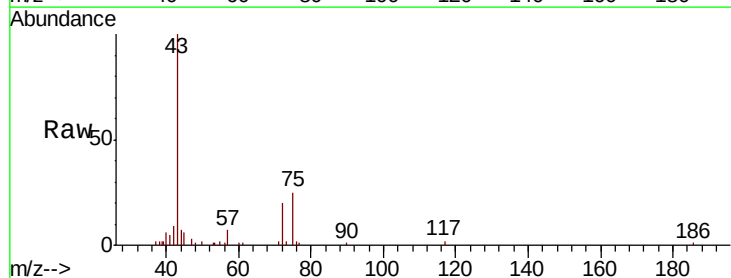
Instrument :  
MSVOA\_W  
ClientSampleId :  
2S-H2-(0-1)

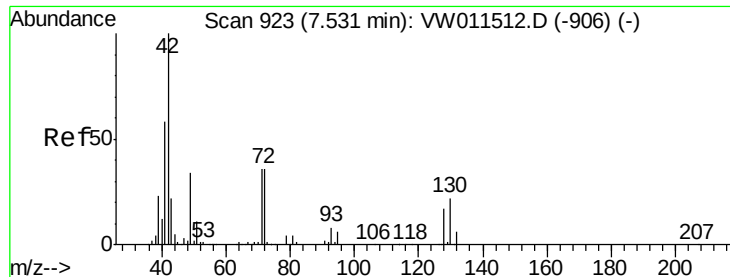
Tgt Ion: 84 Resp: 14858  
Ion Ratio Lower Upper  
84 100  
49 140.4 117.8 176.6  
51 42.7 37.0 55.4  
86 64.5 51.8 77.8



#25  
2-Butanone  
Concen: 20.658 ug/l  
RT: 7.18 min Scan# 866  
Delta R.T. 0.01 min  
Lab File: VW011664.D  
Acq: 03 Aug 2019 14:30

Tgt Ion: 43 Resp: 21310  
Ion Ratio Lower Upper  
43 100  
72 20.4 16.6 24.8





#29

Tetrahydrofuran

Concen: 1.299 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW011664.D

Acq: 03 Aug 2019 14:30

Instrument :

MSVOA\_W

ClientSampleId :

2S-H2-(0-1)

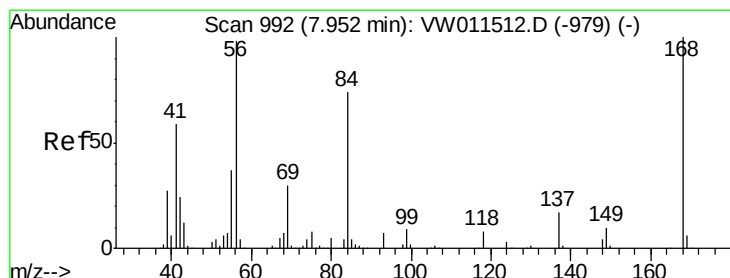
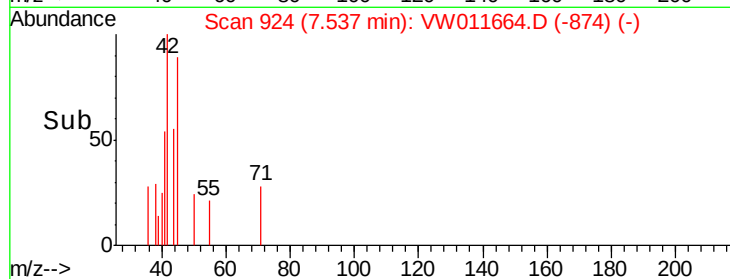
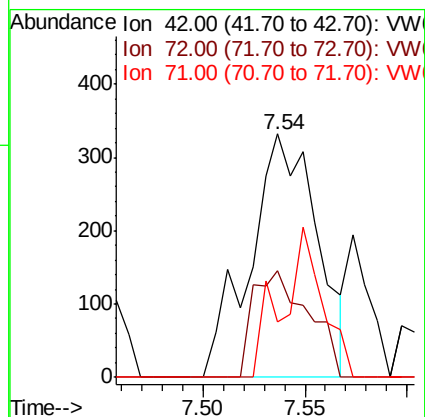
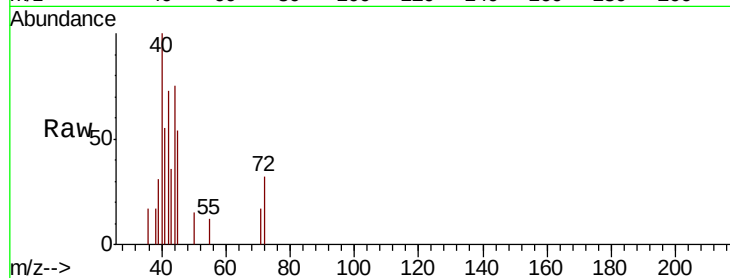
Tgt Ion: 42 Resp: 766

Ion Ratio Lower Upper

42 100

72 35.8 27.1 40.7

71 37.2 26.2 39.4



#31

Cyclohexane

Concen: 1.228 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011664.D

Acq: 03 Aug 2019 14:30

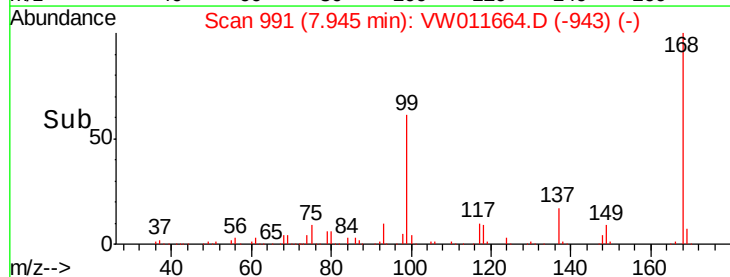
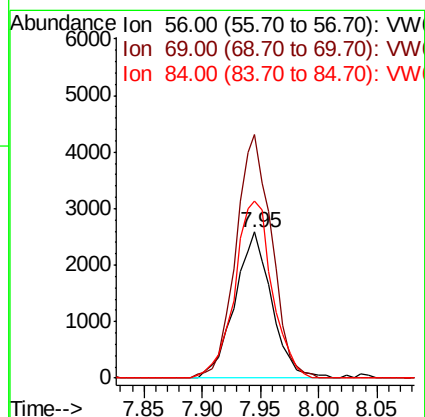
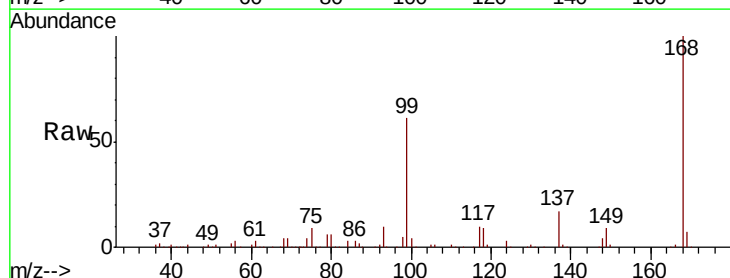
Tgt Ion: 56 Resp: 5692

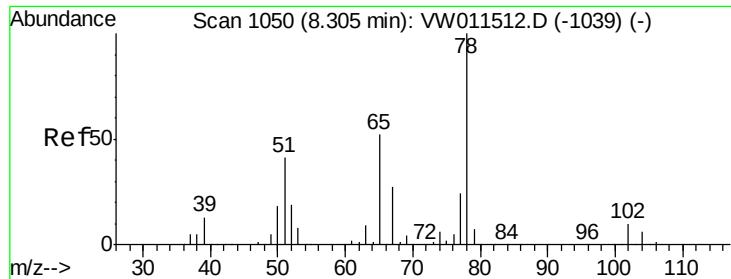
Ion Ratio Lower Upper

56 100

69 166.8 24.3 36.5#

84 121.2 60.4 90.6#

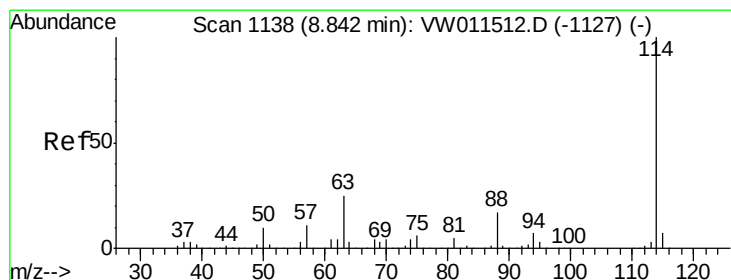
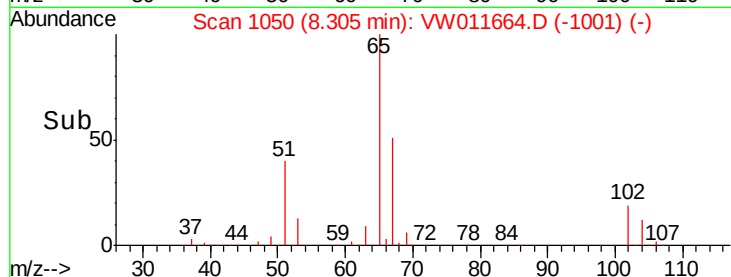
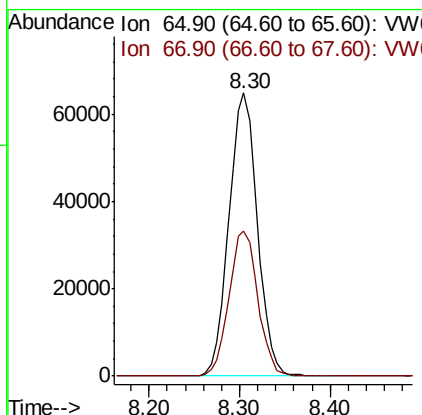
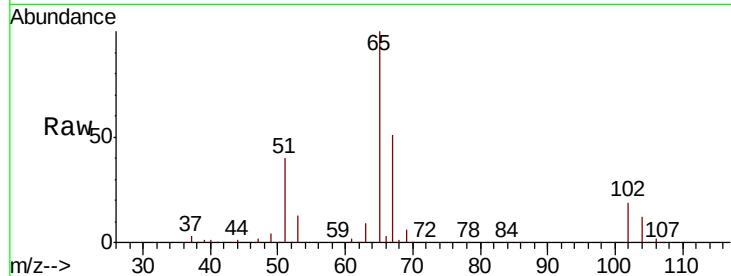




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.958 ug/l  
 RT: 8.30 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW011664.D  
 Acq: 03 Aug 2019 14:30

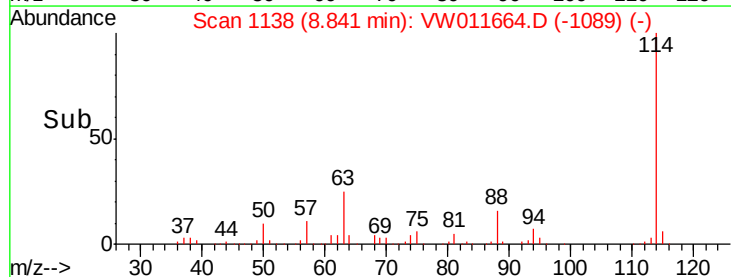
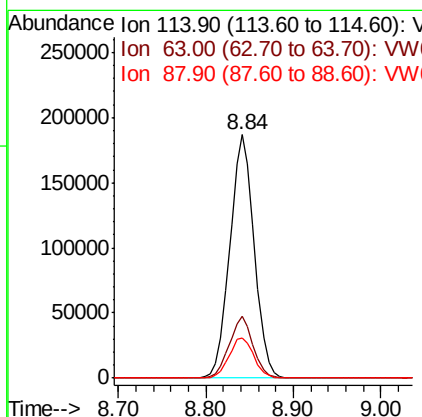
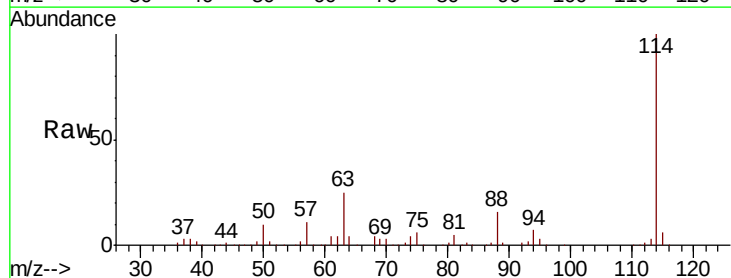
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 2S-H2-(0-1)

Tgt Ion: 65 Resp: 141158  
 Ion Ratio Lower Upper  
 65 100  
 67 52.0 0.0 105.2

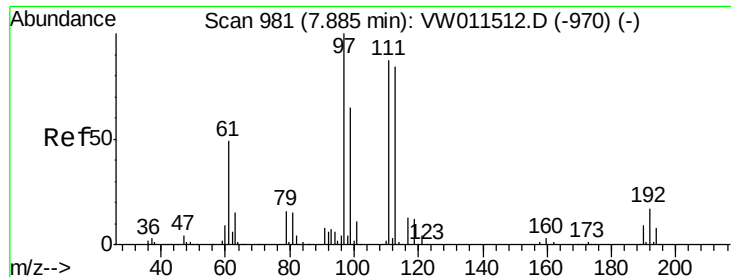


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW011664.D  
 Acq: 03 Aug 2019 14:30

Tgt Ion: 114 Resp: 360552  
 Ion Ratio Lower Upper  
 114 100  
 63 25.2 0.0 49.2  
 88 16.2 0.0 33.8



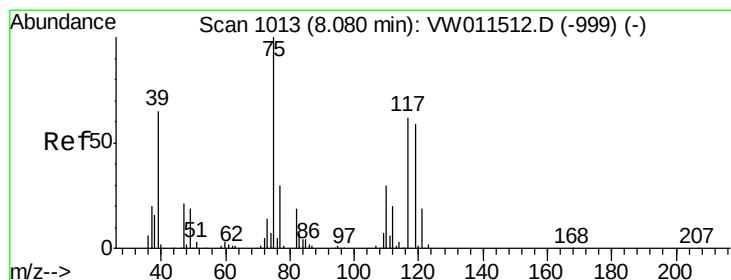
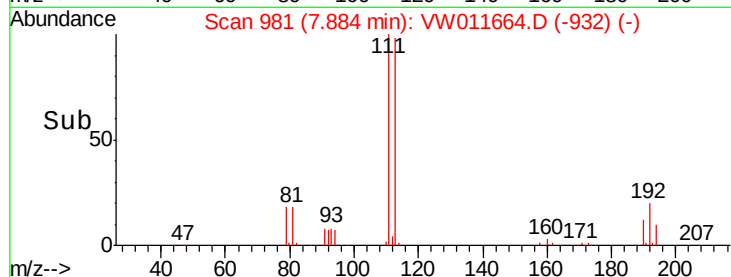
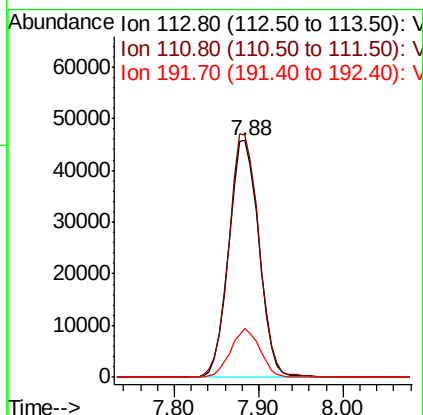
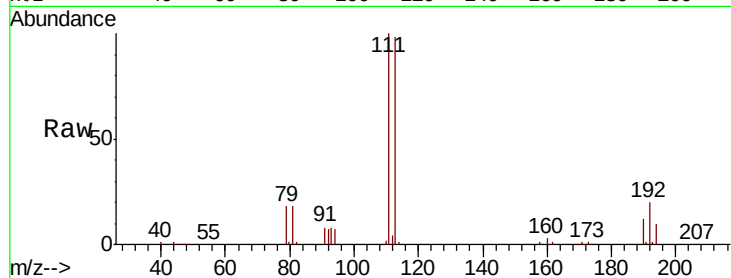




#35  
 Dibromofluoromethane  
 Concen: 54.731 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW011664.D  
 Acq: 03 Aug 2019 14:30

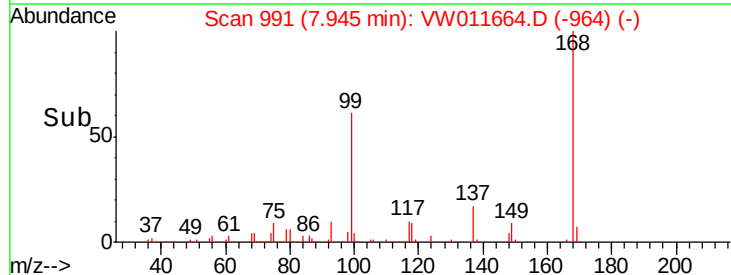
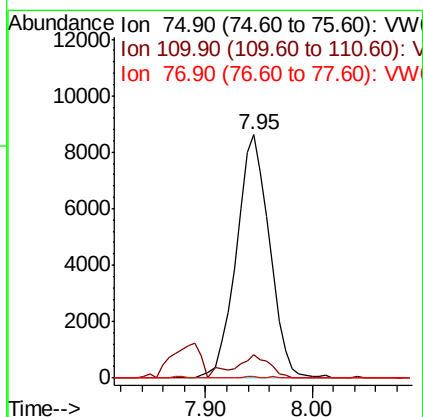
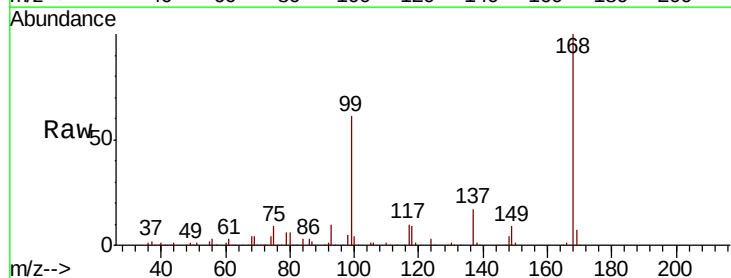
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 2S-H2-(0-1)

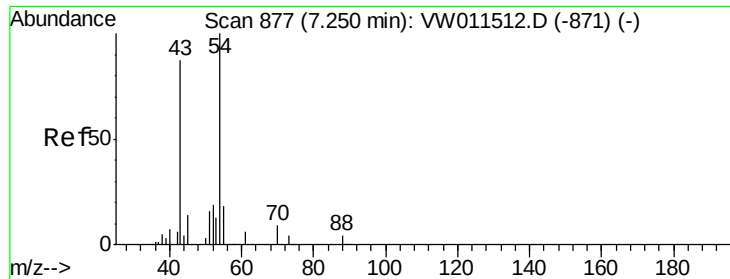
Tgt Ion:113 Resp: 110708  
 Ion Ratio Lower Upper  
 113 100  
 111 102.3 82.7 124.1  
 192 20.0 16.1 24.1



#36  
 1,1-Dichloropropene  
 Concen: 5.032 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW011664.D  
 Acq: 03 Aug 2019 14:30

Tgt Ion: 75 Resp: 18866  
 Ion Ratio Lower Upper  
 75 100  
 110 8.7 15.6 46.8#  
 77 0.2 24.3 36.5#





#37

Ethyl Acetate

Concen: 9.880 ug/l

RT: 7.18 min Scan# 866

Delta R.T. -0.07 min

Lab File: VW011664.D

Acq: 03 Aug 2019 14:30

Instrument :

MSVOA\_W

ClientSampleId :

2S-H2-(0-1)

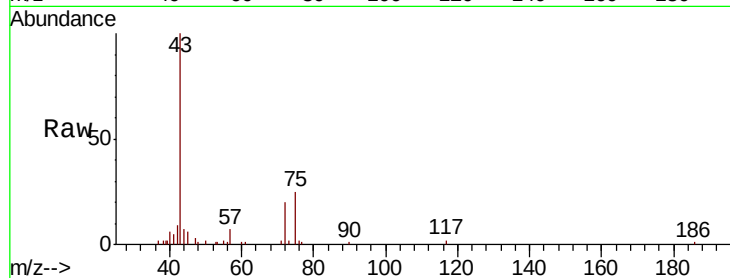
Tgt Ion: 43 Resp: 21310

Ion Ratio Lower Upper

43 100

61 0.0 8.8 13.2#

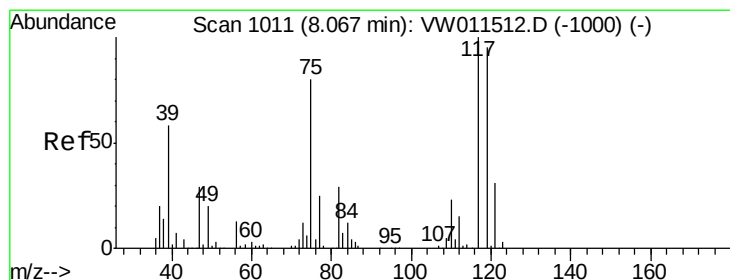
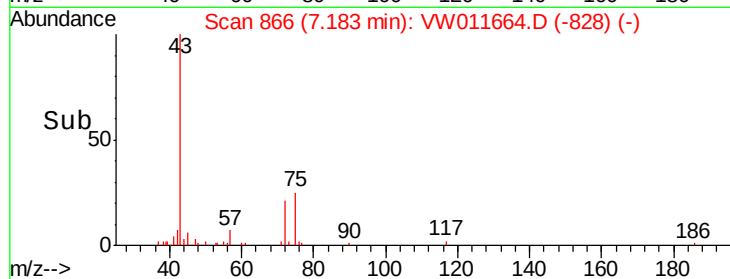
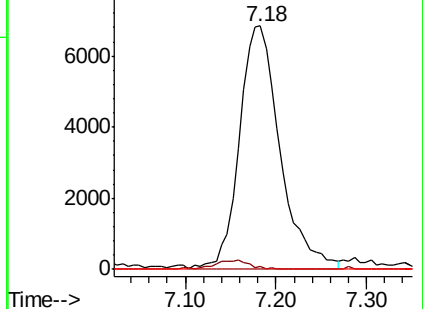
70 0.0 7.1 10.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 6.935 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011664.D

Acq: 03 Aug 2019 14:30

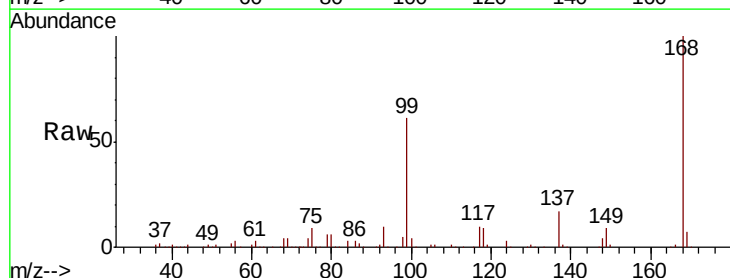
Tgt Ion: 117 Resp: 22258

Ion Ratio Lower Upper

117 100

119 5.2 75.8 113.6#

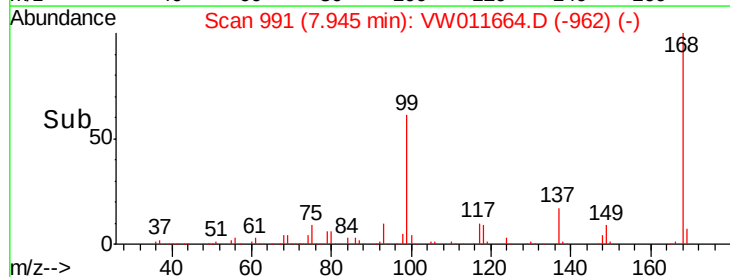
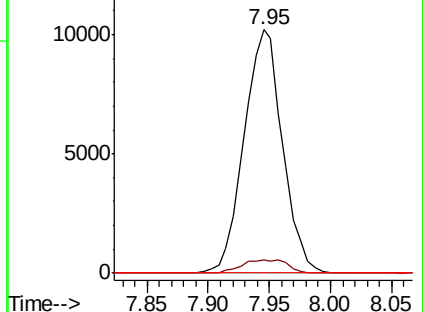
121 0.0 24.7 37.1#

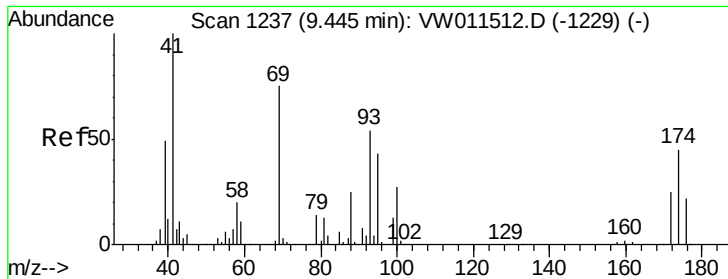


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

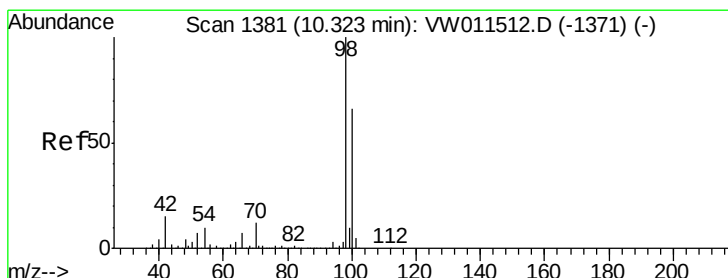
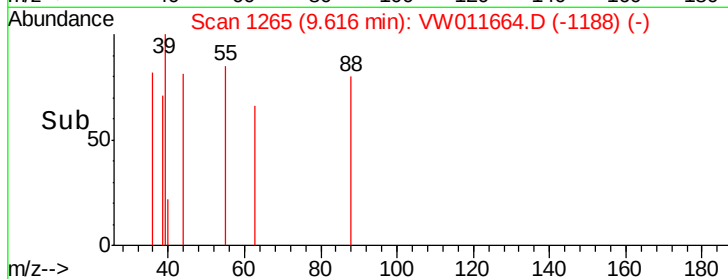
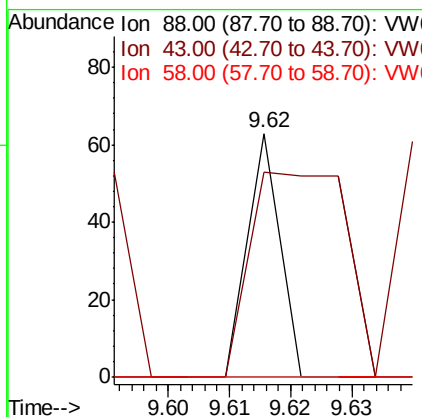
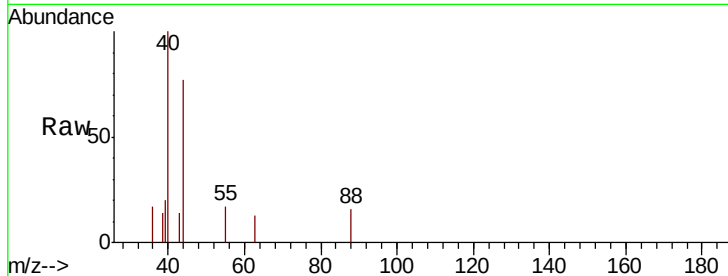




#49  
1,4-Dioxane  
Concen: 1.239 ug/l  
RT: 9.62 min Scan# 1265  
Delta R.T. 0.17 min  
Lab File: VW011664.D  
Acq: 03 Aug 2019 14:30

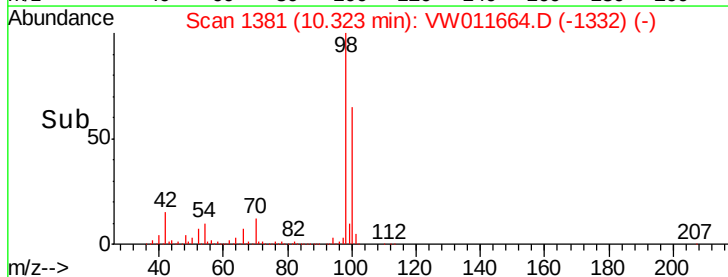
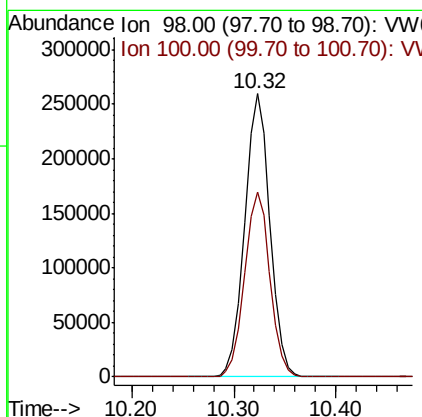
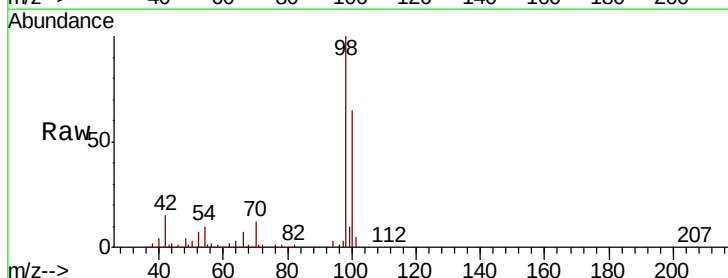
Instrument :  
MSVOA\_W  
ClientSampleId :  
2S-H2-(0-1)

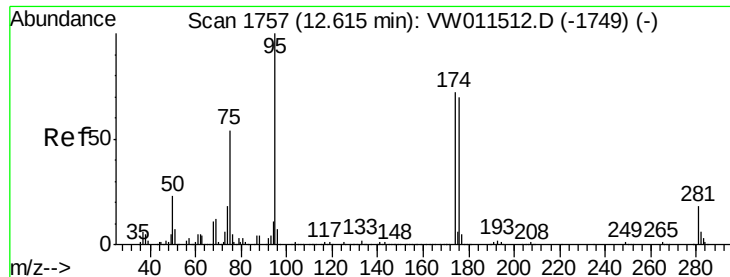
Tgt Ion: 88 Resp: 23  
Ion Ratio Lower Upper  
88 100  
43 247.8 34.0 51.0#  
58 0.0 69.7 104.5#



#50  
Toluene-d8  
Concen: 53.736 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW011664.D  
Acq: 03 Aug 2019 14:30

Tgt Ion: 98 Resp: 445028  
Ion Ratio Lower Upper  
98 100  
100 65.8 52.7 79.1

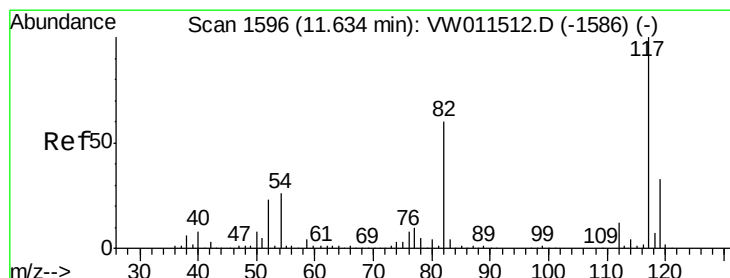
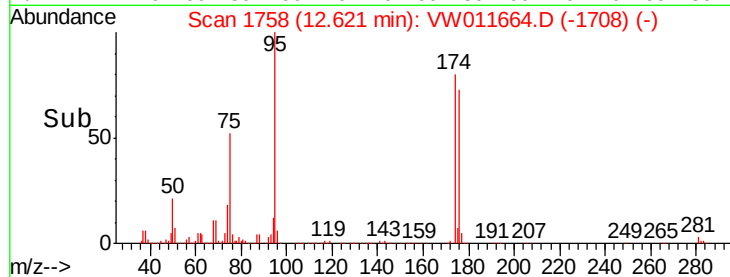
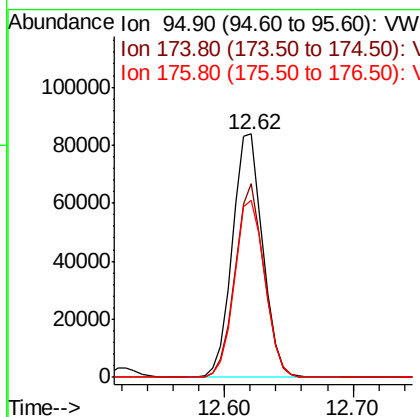
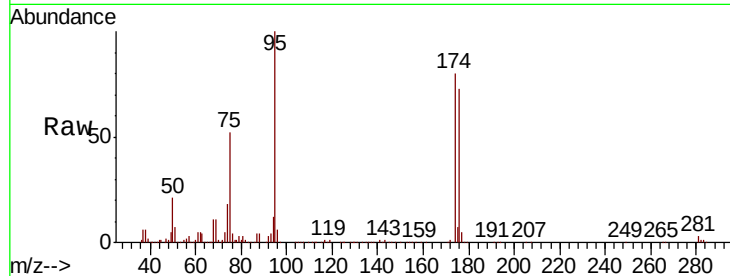




#62  
4-Bromofluorobenzene  
Concen: 46.354 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.01 min  
Lab File: VW011664.D  
Acq: 03 Aug 2019 14:30

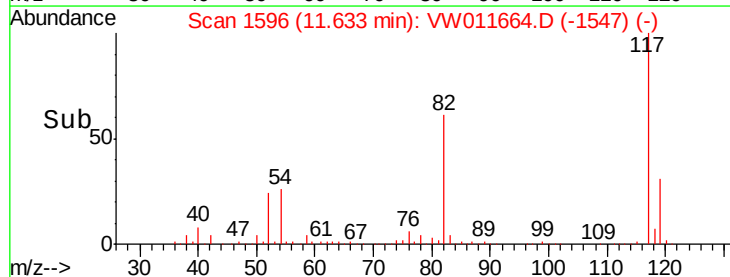
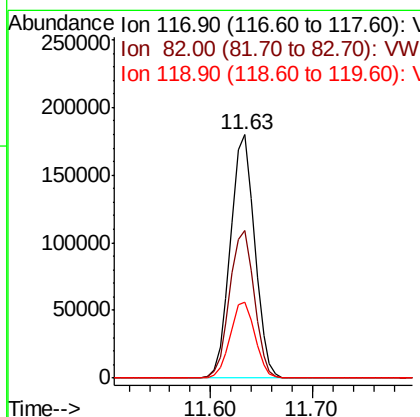
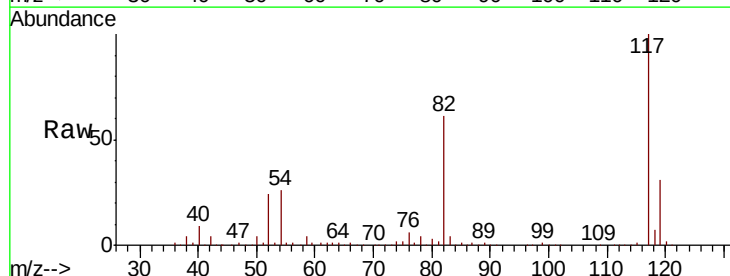
Instrument :  
MSVOA\_W  
ClientSampled :  
2S-H2-(0-1)

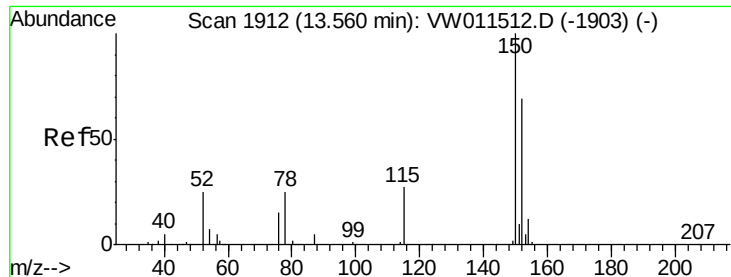
Tgt Ion: 95 Resp: 136865  
Ion Ratio Lower Upper  
95 100  
174 75.8 0.0 150.2  
176 72.9 0.0 144.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW011664.D  
Acq: 03 Aug 2019 14:30

Tgt Ion: 117 Resp: 295589  
Ion Ratio Lower Upper  
117 100  
82 60.8 47.9 71.9  
119 31.0 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW011664.D

Acq: 03 Aug 2019 14:30

Instrument :

MSVOA\_W

ClientSampleId :

2S-H2-(0-1)

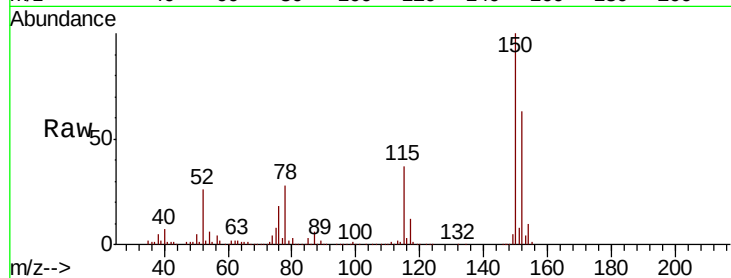
Tgt Ion: 152 Resp: 115993

Ion Ratio Lower Upper

152 100

115 60.0 30.5 91.5

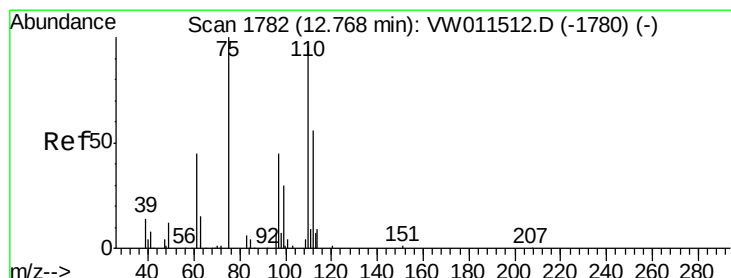
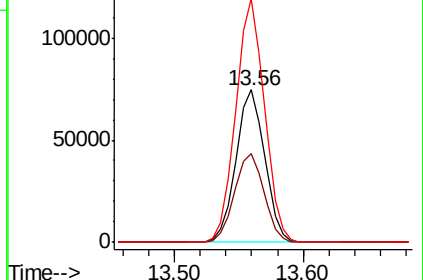
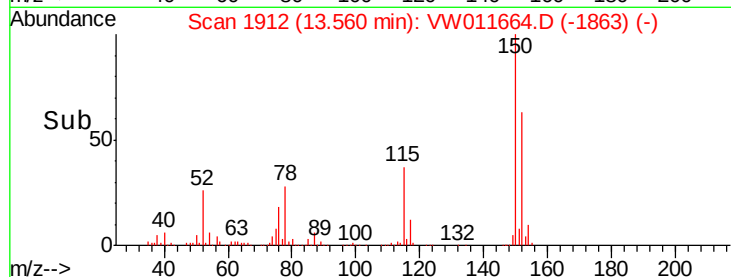
150 158.9 0.0 352.6



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: 59.512 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011664.D

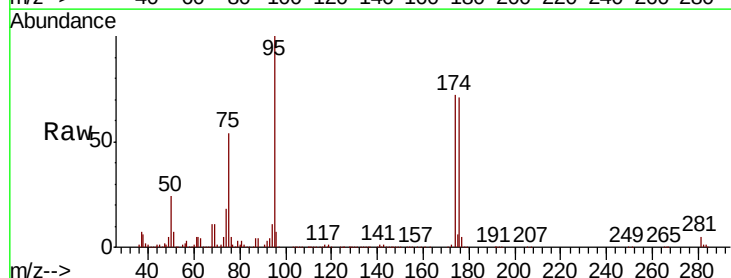
Acq: 03 Aug 2019 14:30

Tgt Ion: 75 Resp: 73042

Ion Ratio Lower Upper

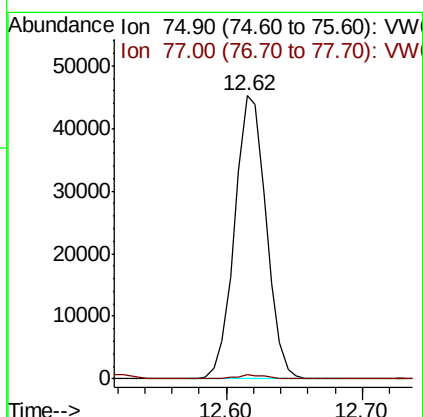
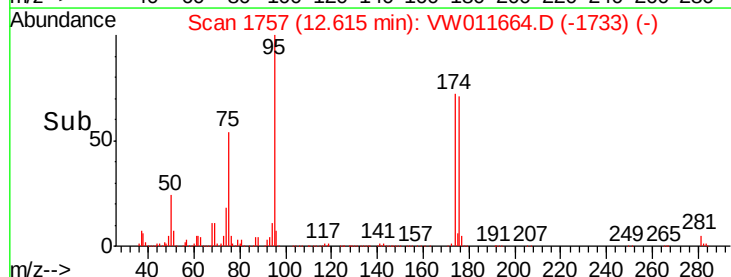
75 100

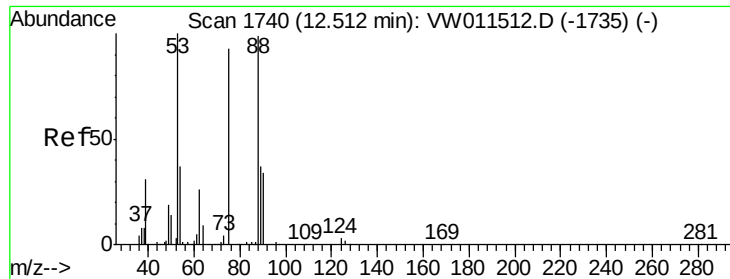
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

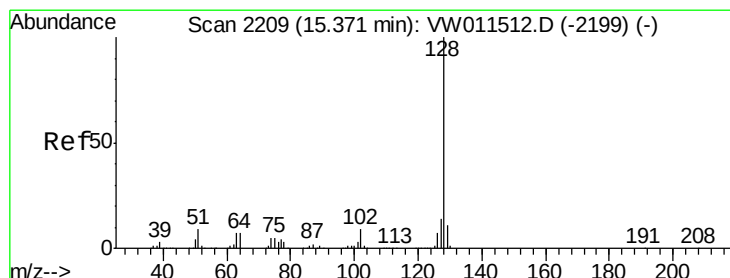
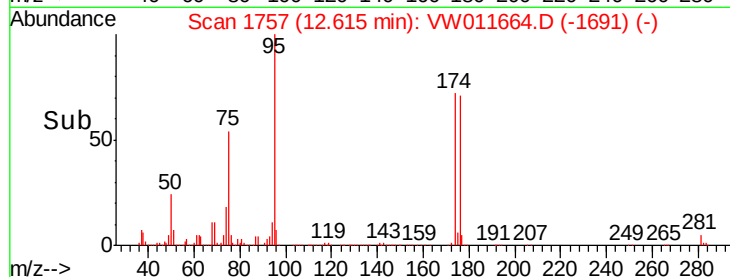
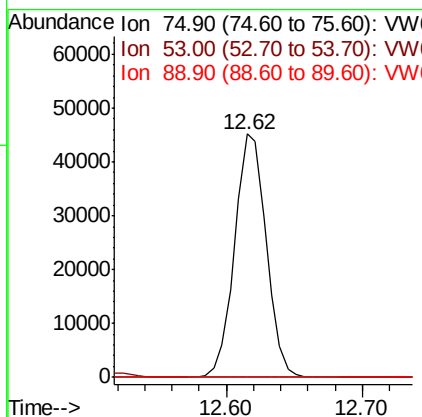
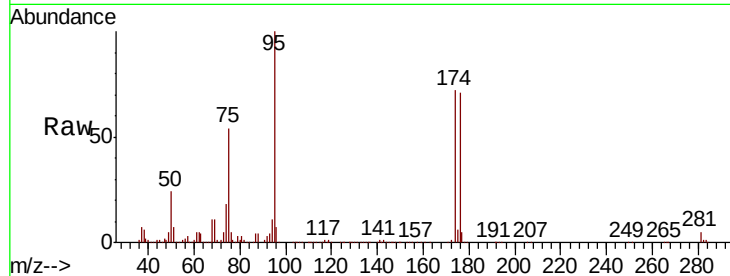




#81  
trans-1,4-Dichloro-2-butene  
Concen: 137.156 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. 0.10 min  
Lab File: VW011664.D  
Acq: 03 Aug 2019 14:30

Instrument :  
MSVOA\_W  
ClientSampleId :  
2S-H2-(0-1)

Tgt Ion: 75 Resp: 73042  
Ion Ratio Lower Upper  
75 100  
53 0.2 88.0 132.0#  
89 0.0 35.3 52.9#



#95  
Naphthalene  
Concen: 9.491 ug/l  
RT: 15.36 min Scan# 2208  
Delta R.T. -0.01 min  
Lab File: VW011664.D  
Acq: 03 Aug 2019 14:30

Tgt Ion: 128 Resp: 35467  
Ion Ratio Lower Upper  
128 100  
127 13.8 10.6 16.0  
129 11.1 8.6 13.0

