

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121918\
 Data File : VW007646.D
 Acq On : 17 Dec 2018 21:34
 Operator : SY/AP
 Sample : J6379-05
 Misc : 5.14G/5ML/MSVOA W/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 18 07:07:33 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	23721	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	57889	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	55365	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	19231	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	32326	122.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	245.68%	
35) Dibromofluoromethane	7.88	113	25149	71.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	143.54%	
50) Toluene-d8	10.33	98	64163	48.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.66%	
62) 4-Bromofluorobenzene	12.62	95	22374	46.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.62%	

Target Compounds

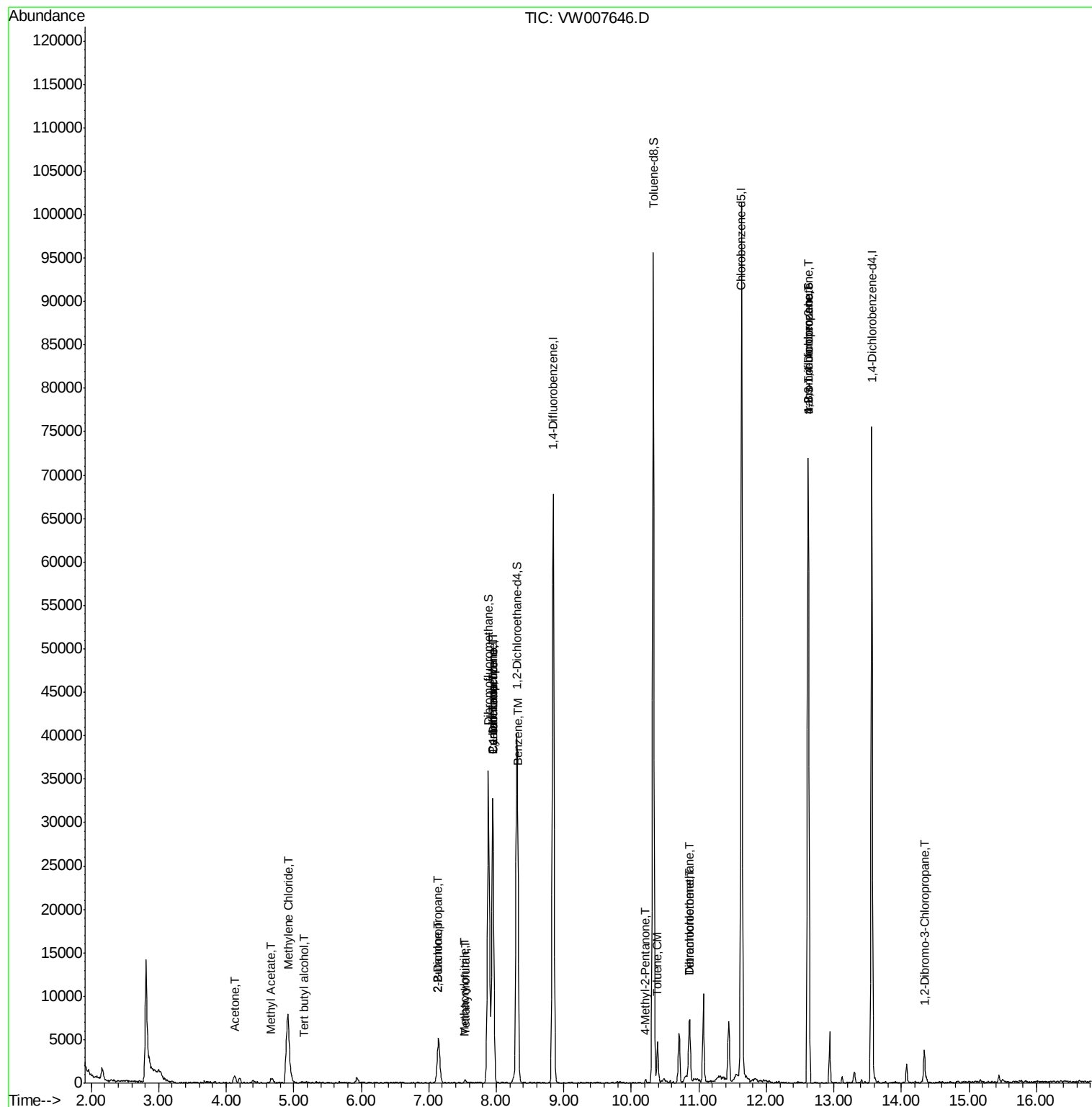
						Qvalue
11) Tert butyl alcohol	5.15	59	109	6.031	ug/l #	74
16) Acetone	4.12	43	1482	32.240	ug/l	98
18) Methyl Acetate	4.67	43	1211	9.707	ug/l #	88
20) Methylene Chloride	4.91	84	6667	24.526	ug/l	96
25) 2-Butanone	7.13	43	162	2.700	ug/l #	45
26) 2,2-Dichloropropane	7.14	77	302	1.024	ug/l #	52
29) Tetrahydrofuran	7.53	42	254	6.686	ug/l #	37
31) Cyclohexane	7.95	56	509	1.245	ug/l #	36
36) 1,1-Dichloropropene	7.95	75	2048	3.878	ug/l #	42
38) Carbon Tetrachloride	7.95	117	2531	4.405	ug/l #	19
40) Benzene	8.32	78	2718	1.855	ug/l	95
41) Methacrylonitrile	7.52	41	157	1.404	ug/l #	33
51) 4-Methyl-2-Pentanone	10.21	43	315	1.718	ug/l #	55
52) Toluene	10.39	92	2217	2.338	ug/l	100
60) Dibromochloromethane	10.86	129	1514	4.577	ug/l #	11
64) Tetrachloroethene	10.87	164	1616	4.059	ug/l	91
76) 1,2,3-Trichloropropane	12.62	75	11619	73.276	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	11619	161.867	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.34	75	256	5.845	ug/l #	3

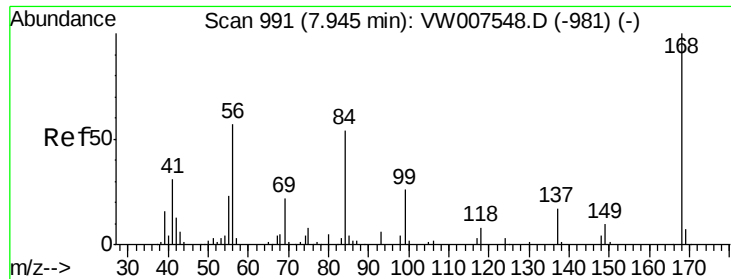
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW007646.D

Acq: 17 Dec 2018 21:34

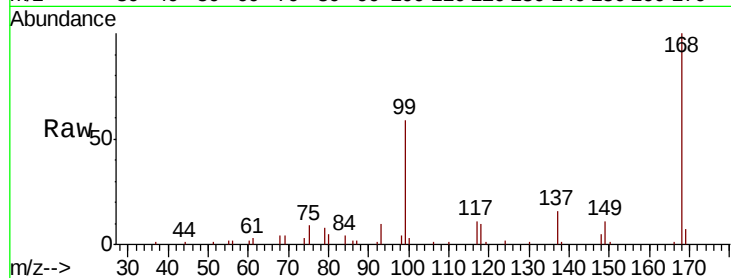
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 23721

Ion Ratio Lower Upper

168 100

99 58.5 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

12000

10000

8000

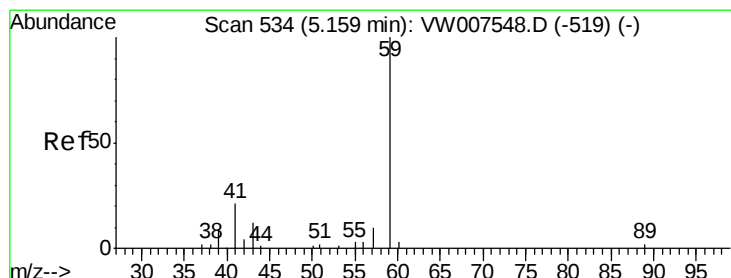
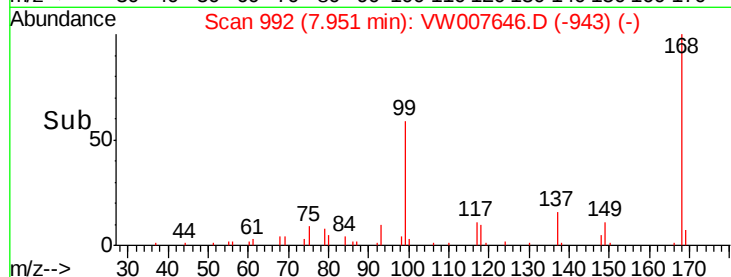
6000

4000

2000

0

Time-->



#11

Tert butyl alcohol

Concen: 6.031 ug/l

RT: 5.15 min Scan# 533

Delta R.T. -0.01 min

Lab File: VW007646.D

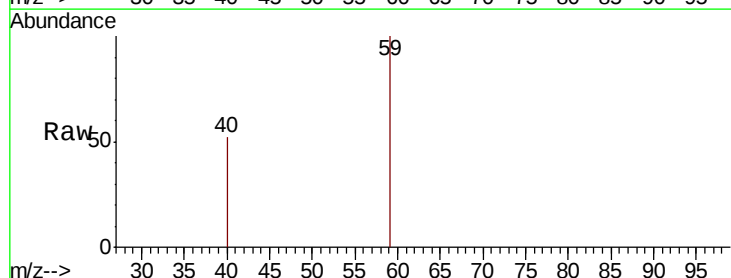
Acq: 17 Dec 2018 21:34

Tgt Ion: 59 Resp: 109

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.15

120

100

80

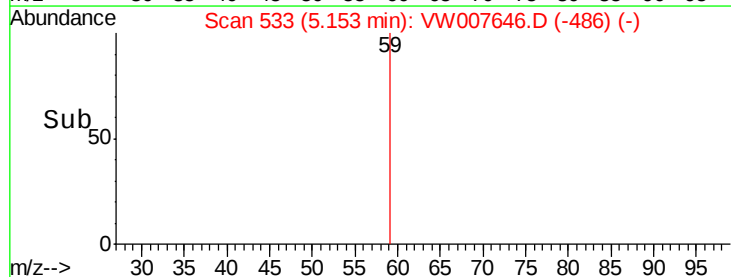
60

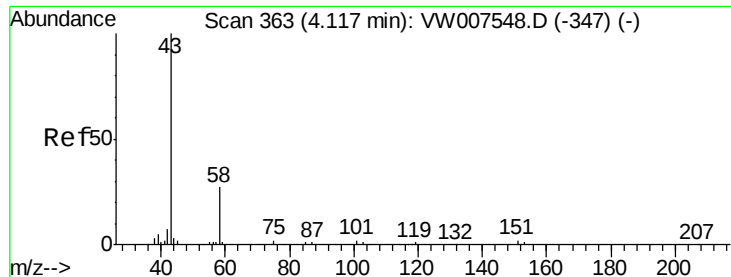
40

20

0

Time-->





#16

Acetone

Concen: 32.240 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007646.D

Acq: 17 Dec 2018 21:34

Instrument :

MSVOA_W

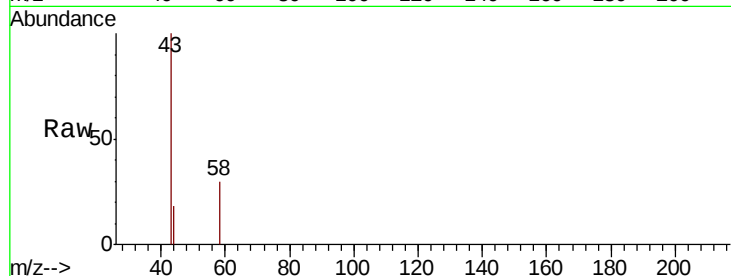
ClientSampled :

Tot Ion: 43 Resp: 1482

Ion Ratio Lower Upper

43 100

58 30.1 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

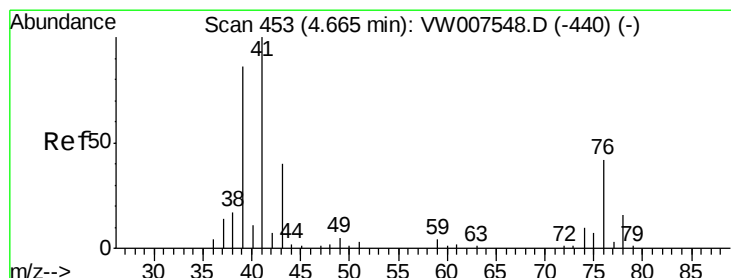
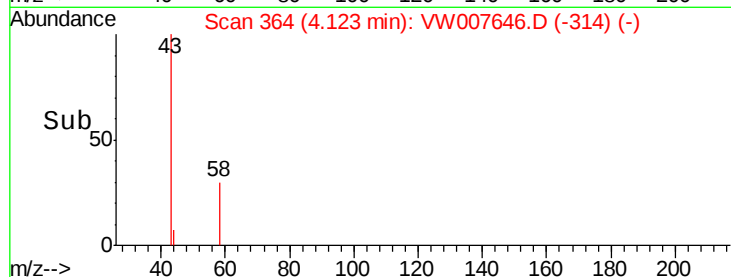
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 9.707 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW007646.D

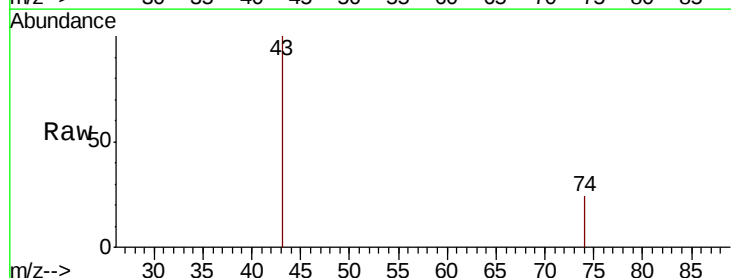
Acq: 17 Dec 2018 21:34

Tgt Ion: 43 Resp: 1211

Ion Ratio Lower Upper

43 100

74 20.2 21.1 31.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

4.67

500

400

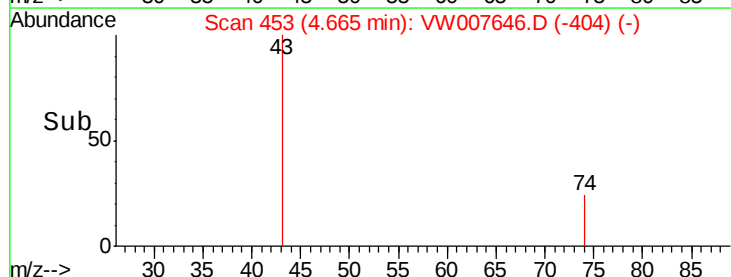
300

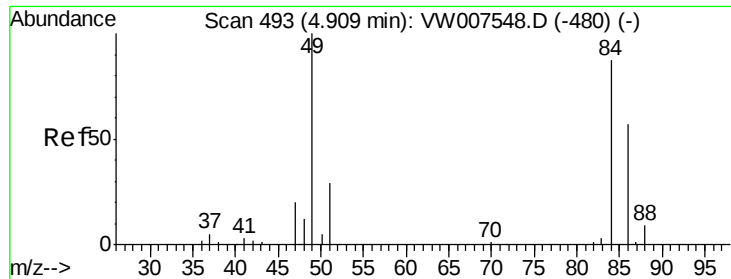
200

100

0

Time-->

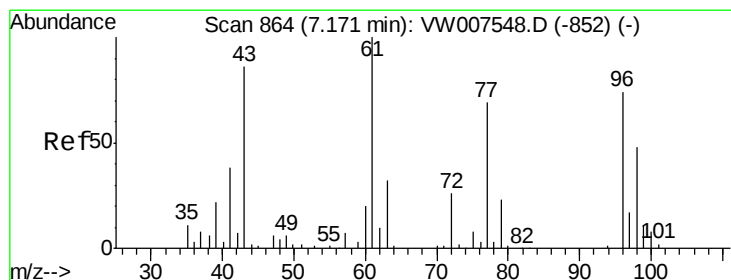
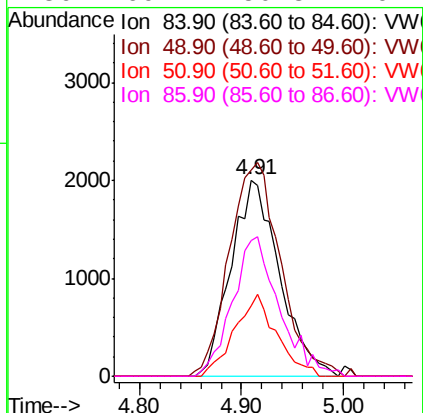
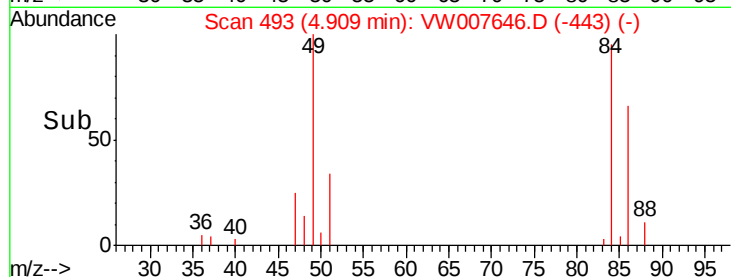
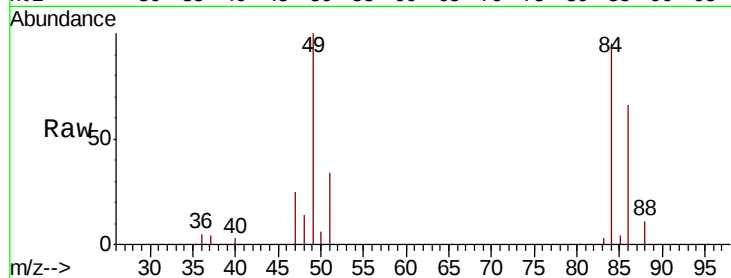




#20
Methvlene Chloride
Concen: 24.526 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.01 min
Lab File: VW007646.D
Acq: 17 Dec 2018 21:34

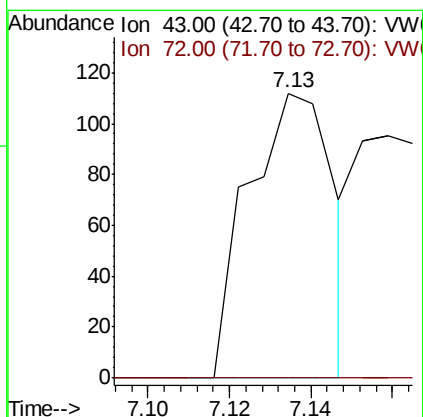
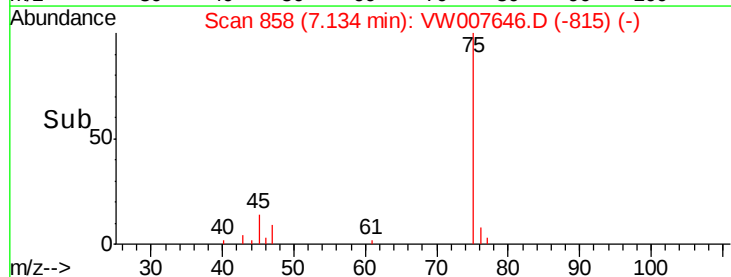
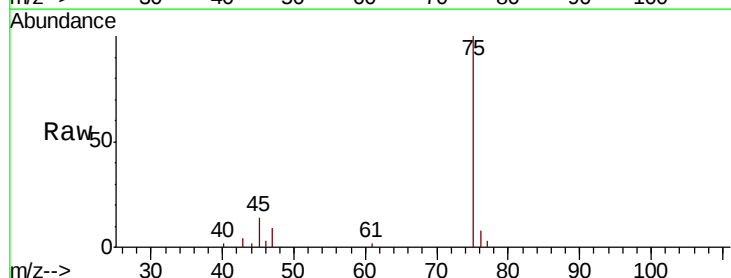
Instrument :
MSVOA_W
ClientSampleId :

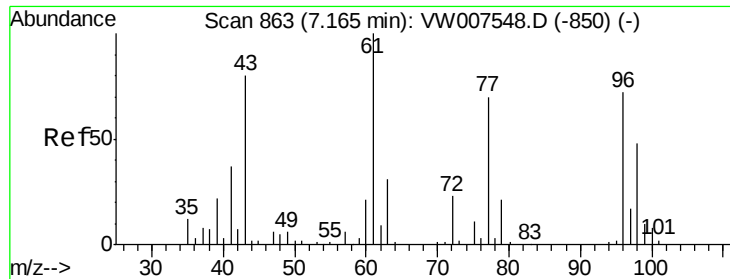
Tot Ion: 84 Resp: 6667
Ion Ratio Lower Upper
84 100
49 104.8 87.1 130.7
51 35.8 28.2 42.2
86 69.2 50.8 76.2



#25
2-Butanone
Concen: 2.700 ug/l
RT: 7.13 min Scan# 858
Delta R.T. -0.04 min
Lab File: VW007646.D
Acq: 17 Dec 2018 21:34

Tgt Ion: 43 Resp: 162
Ion Ratio Lower Upper
43 100
72 0.0 23.4 35.2#

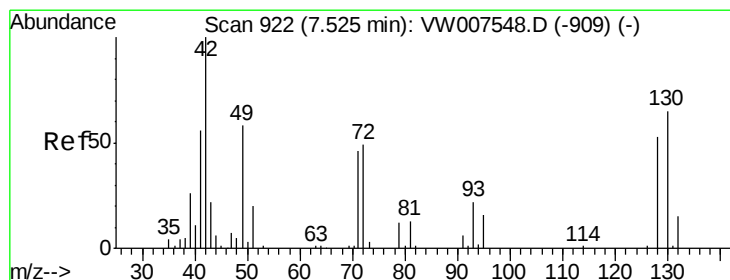
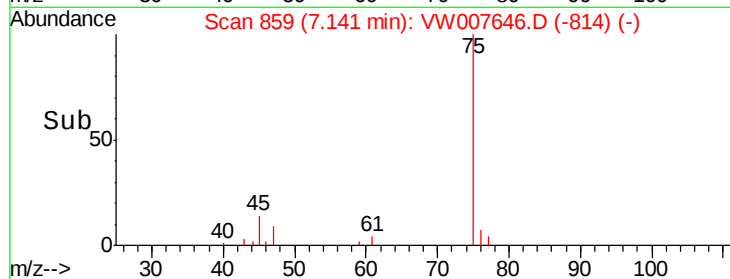
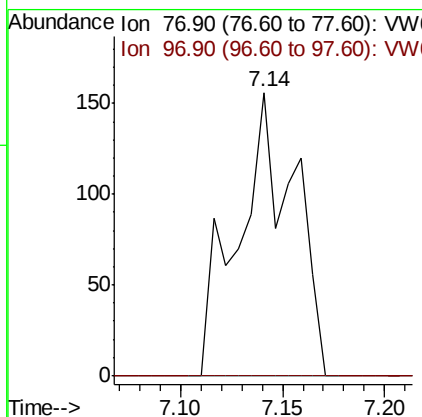
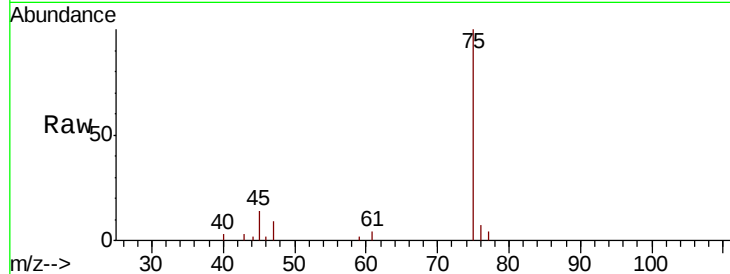




#26
 2,2-Dichloropropane
 Concen: 1.024 ug/l
 RT: 7.14 min Scan# 859
 Delta R.T. -0.02 min
 Lab File: VW007646.D
 Acq: 17 Dec 2018 21:34

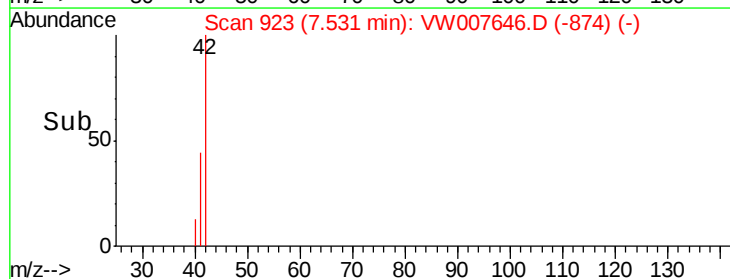
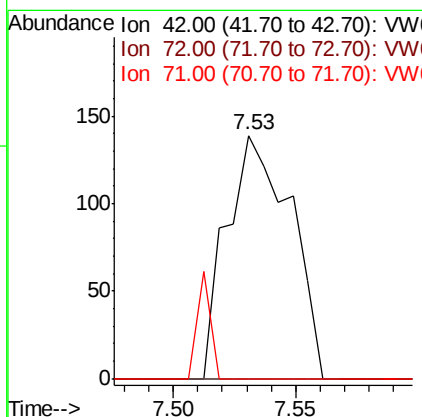
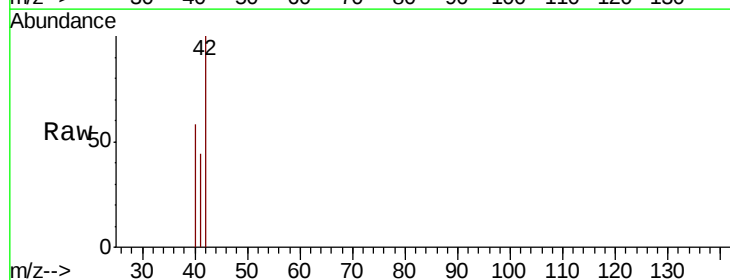
Instrument :
 MSVOA_W
 ClientSampleId :

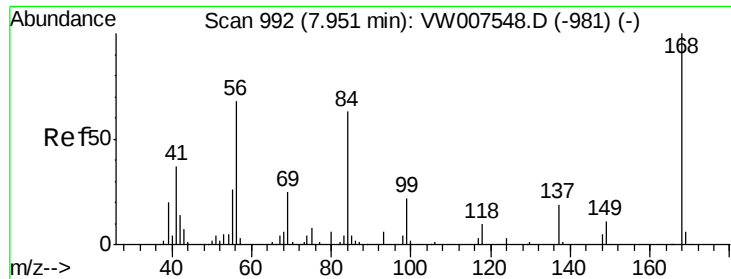
Tot Ion: 77 Resp: 302
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.6 34.8#



#29
 Tetrahydrofuran
 Concen: 6.686 ug/l
 RT: 7.53 min Scan# 923
 Delta R.T. -0.00 min
 Lab File: VW007646.D
 Acq: 17 Dec 2018 21:34

Tgt Ion: 42 Resp: 254
 Ion Ratio Lower Upper
 42 100
 72 0.0 38.2 57.4#
 71 8.7 35.5 53.3#

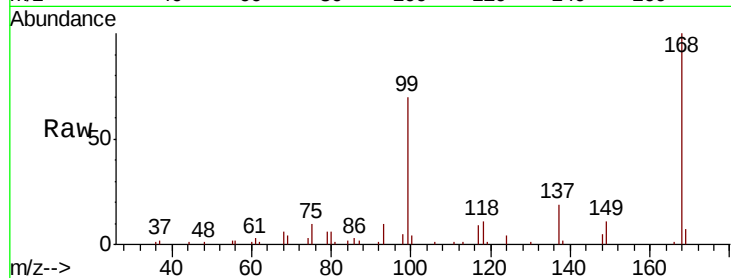




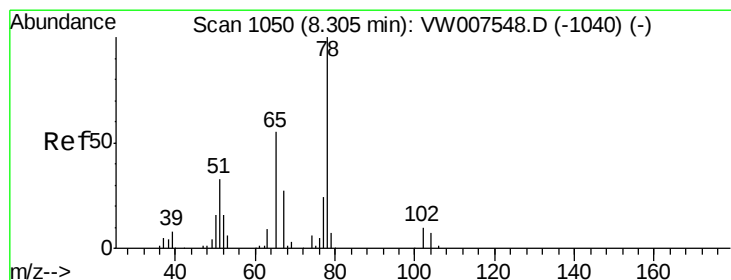
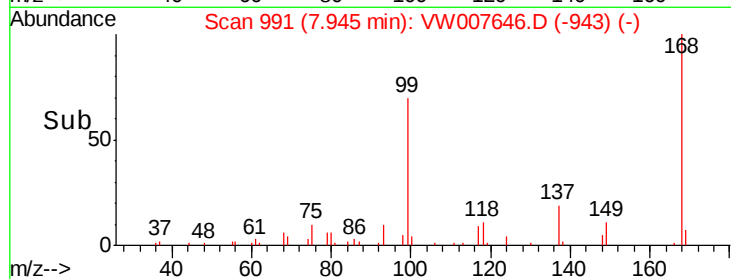
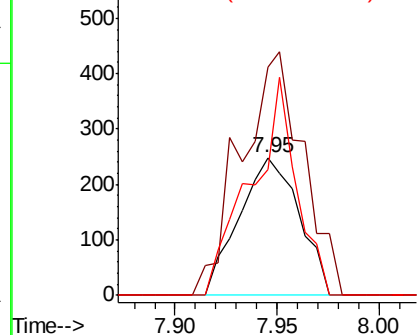
#31
Cyclohexane
Concen: 1.245 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW007646.D
Acq: 17 Dec 2018 21:34

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 509
Ion Ratio Lower Upper
56 100
69 165.5 28.9 43.3#
84 91.2 71.8 107.6

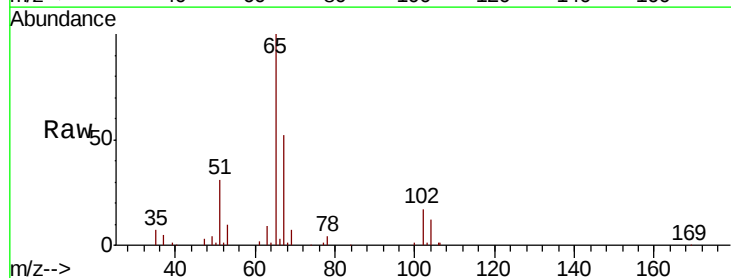


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

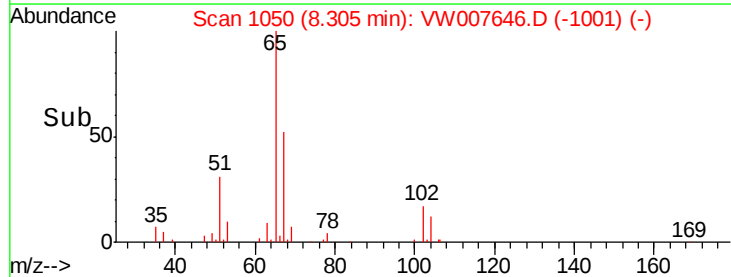
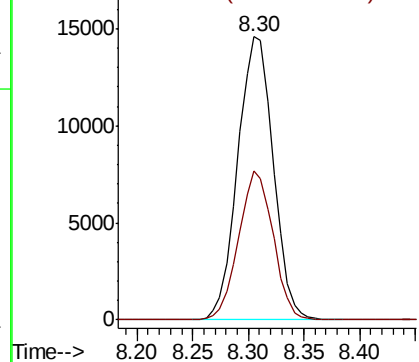


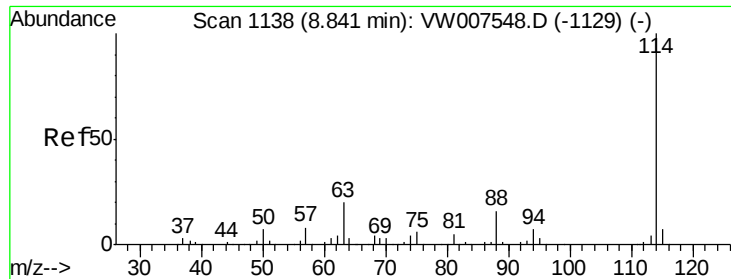
#33
1,2-Dichloroethane-d4
Concen: 122.835 ug/l
RT: 8.30 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VW007646.D
Acq: 17 Dec 2018 21:34

Tgt Ion: 65 Resp: 32326
Ion Ratio Lower Upper
65 100
67 50.9 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

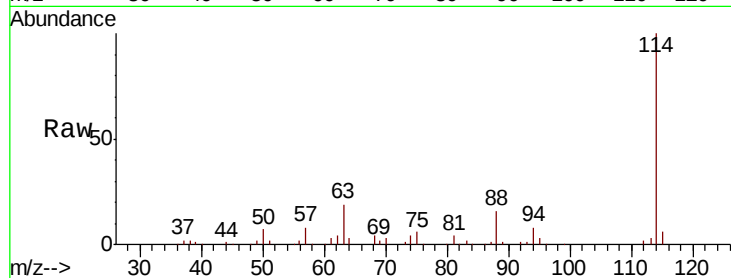




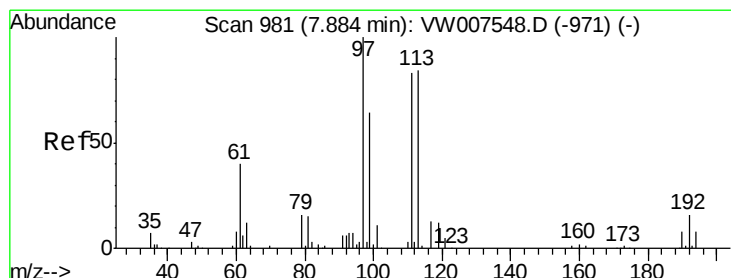
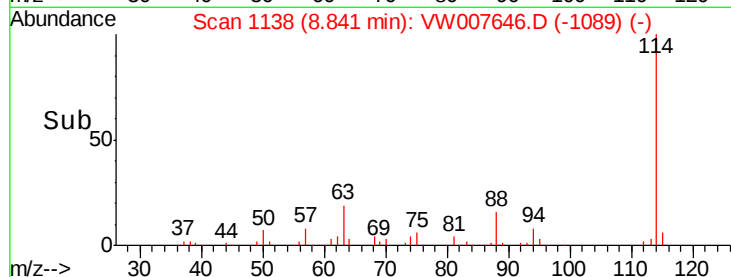
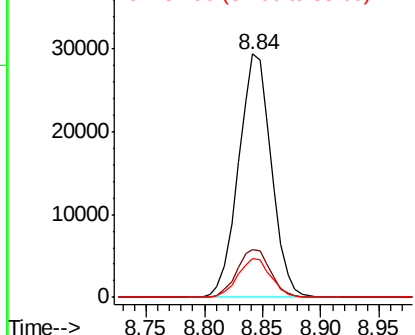
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW007646.D
 Acq: 17 Dec 2018 21:34

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:114 Resp: 57889
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.6
 88 15.9 0.0 31.4

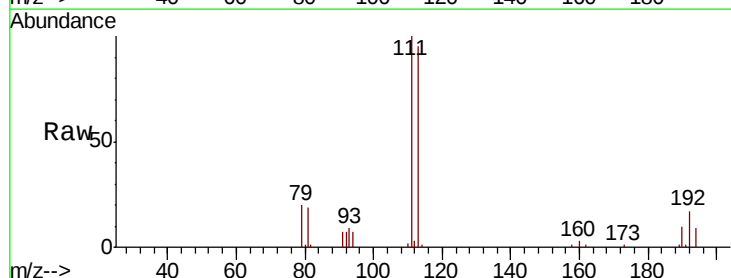


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

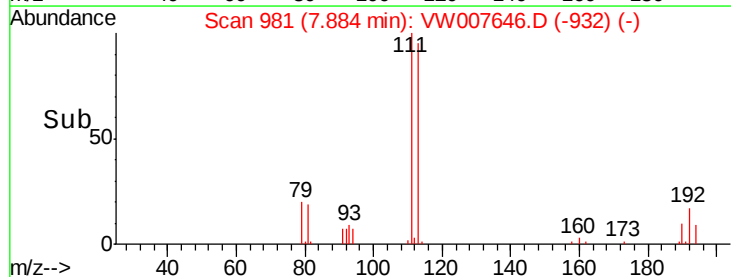
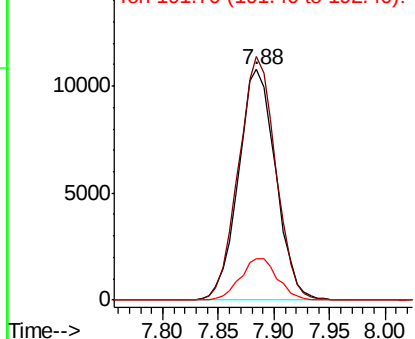


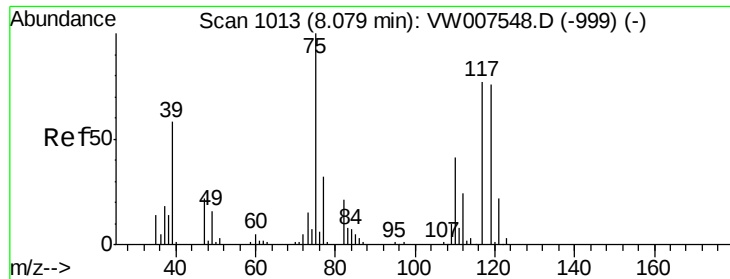
#35
 Dibromofluoromethane
 Concen: 71.767 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW007646.D
 Acq: 17 Dec 2018 21:34

Tgt Ion:113 Resp: 25149
 Ion Ratio Lower Upper
 113 100
 111 104.7 81.1 121.7
 192 17.9 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

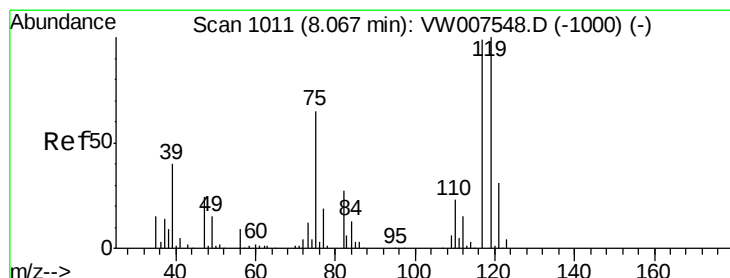
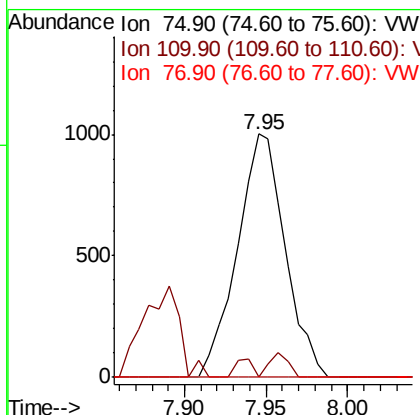
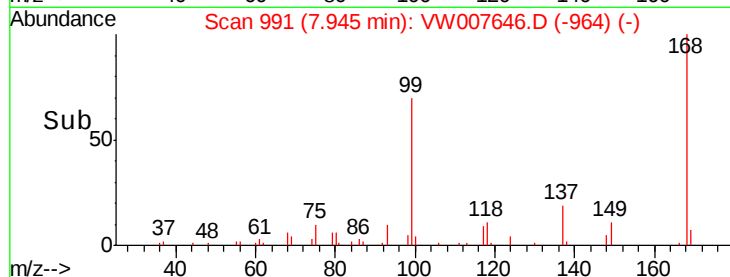
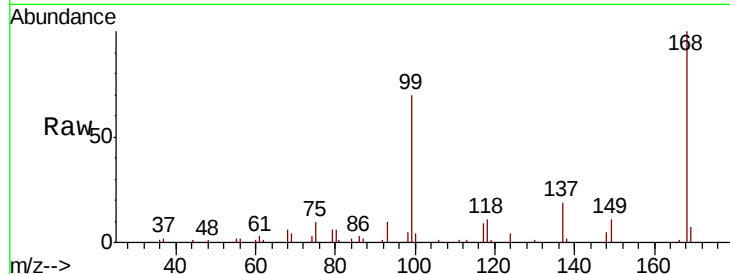




#36
 1,1-Dichloropropene
 Concen: 3.878 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW007646.D
 Acq: 17 Dec 2018 21:34

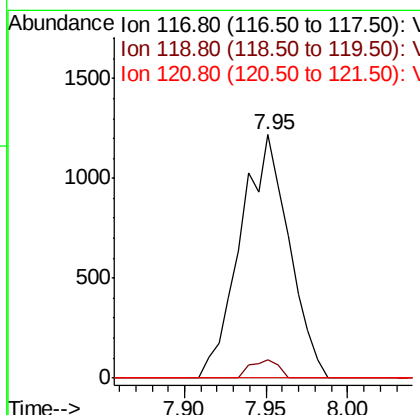
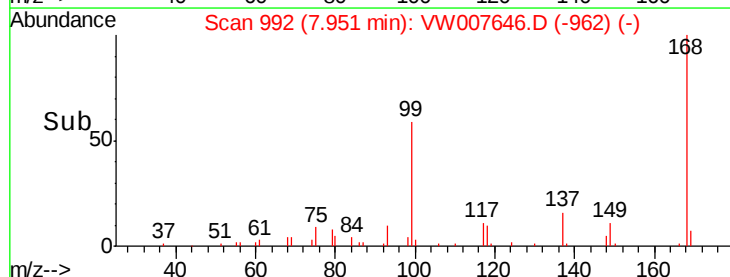
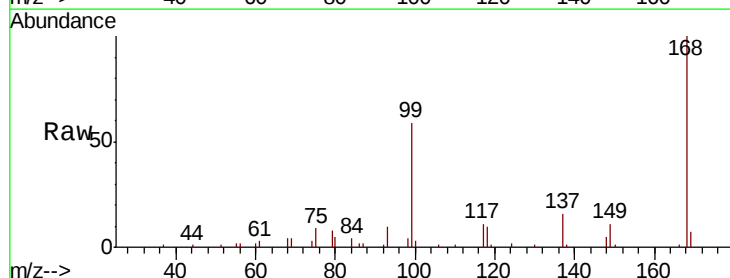
Instrument :
 MSVOA_W
 ClientSampled :

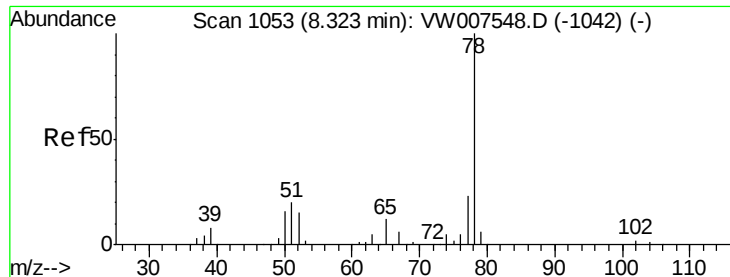
Tot Ion: 75 Resp: 2048
 Ion Ratio Lower Upper
 75 100
 110 2.5 18.5 55.5#
 77 0.0 25.6 38.4#



#38
 Carbon Tetrachloride
 Concen: 4.405 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW007646.D
 Acq: 17 Dec 2018 21:34

Tgt Ion: 117 Resp: 2531
 Ion Ratio Lower Upper
 117 100
 119 7.7 74.3 111.5#
 121 0.0 24.3 36.5#





#40

Benzene

Concen: 1.855 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW007646.D

Acq: 17 Dec 2018 21:34

Instrument :

MSVOA_W

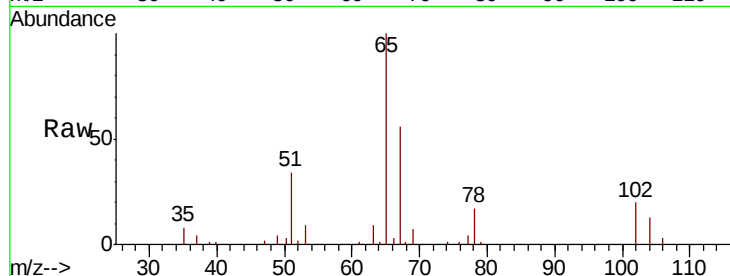
ClientSampled :

Tot Ion: 78 Resp: 2718

Ion Ratio Lower Upper

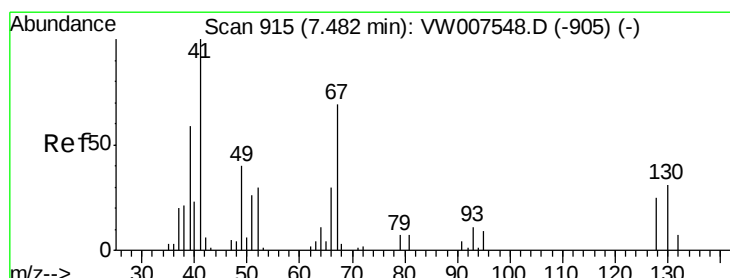
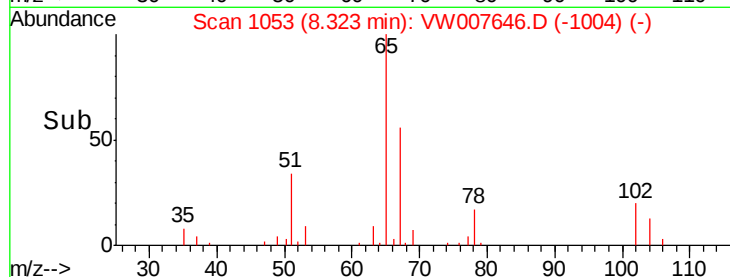
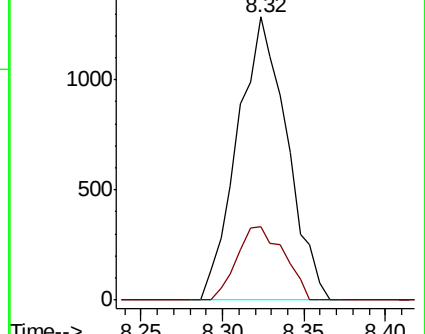
78 100

77 25.9 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VW

Ion 77.00 (76.70 to 77.70): VW



#41

Methacrylonitrile

Concen: 1.404 ug/l

RT: 7.52 min Scan# 922

Delta R.T. 0.04 min

Lab File: VW007646.D

Acq: 17 Dec 2018 21:34

Tgt Ion: 41 Resp: 157

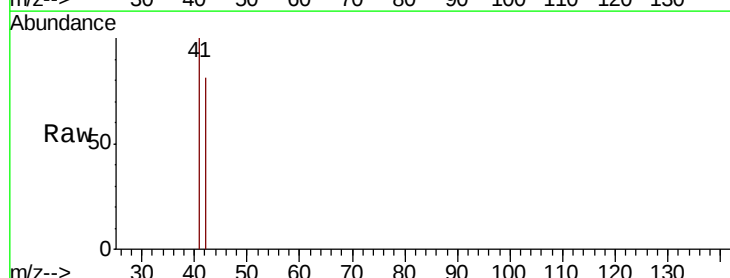
Ion Ratio Lower Upper

41 100

39 28.7 52.2 78.2#

67 0.0 60.5 90.7#

52 0.0 25.3 37.9#

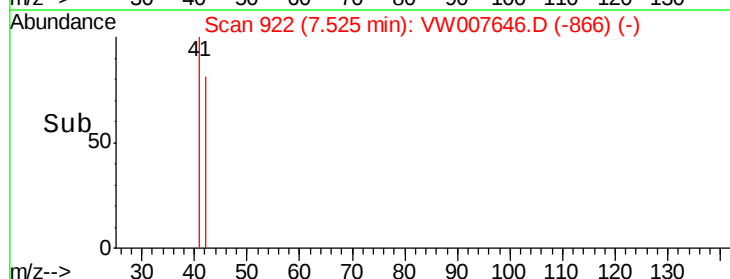
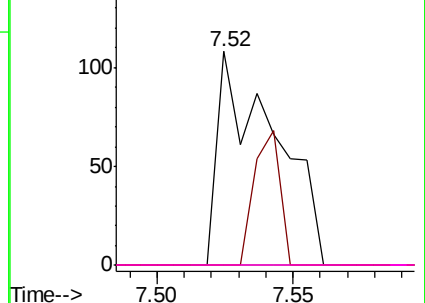


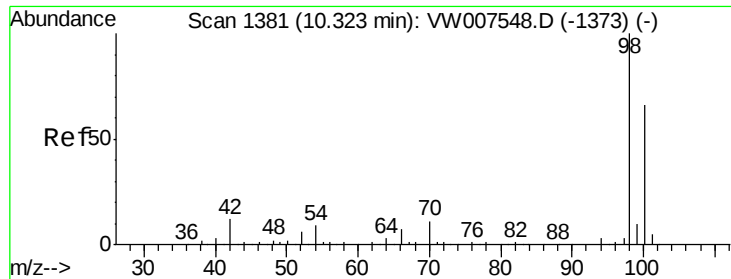
Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW





#50

Toluene-d8

Concen: 48.834 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VW007646.D

Acq: 17 Dec 2018 21:34

Instrument :

MSVOA_W

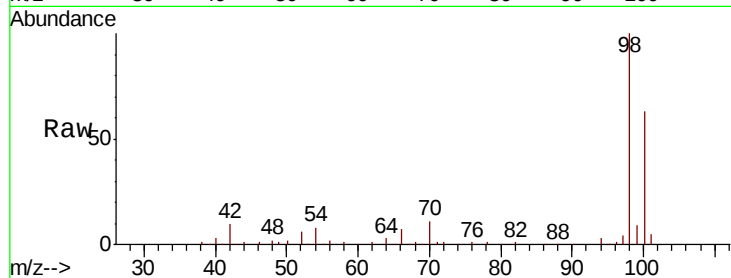
ClientSampled :

Tot Ion: 98 Resp: 64163

Ion Ratio Lower Upper

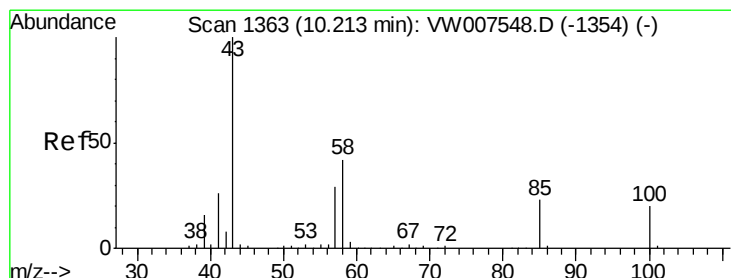
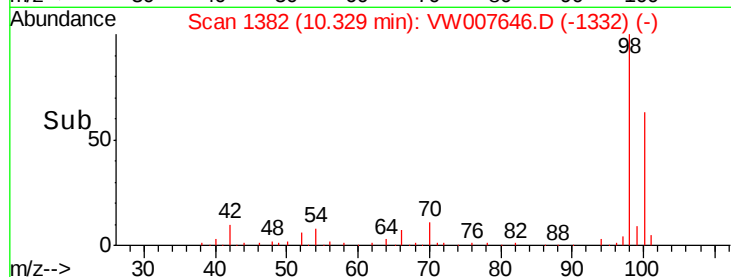
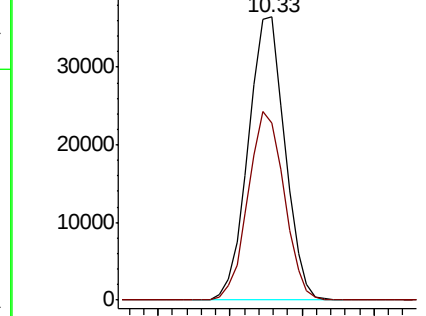
98 100

100 65.8 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#51

4-Methyl-2-Pentanone

Concen: 1.718 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW007646.D

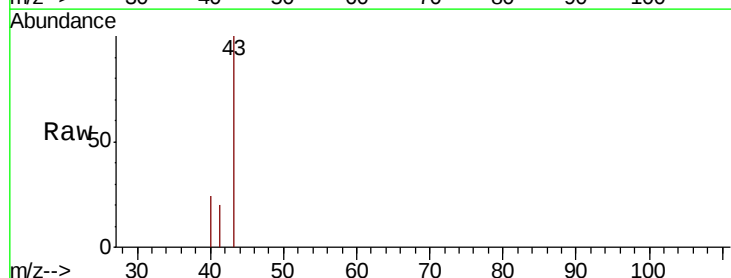
Acq: 17 Dec 2018 21:34

Tgt Ion: 43 Resp: 315

Ion Ratio Lower Upper

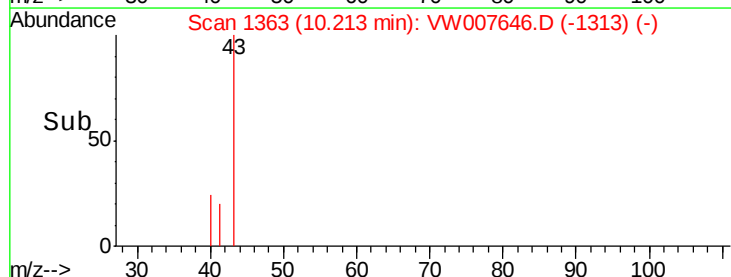
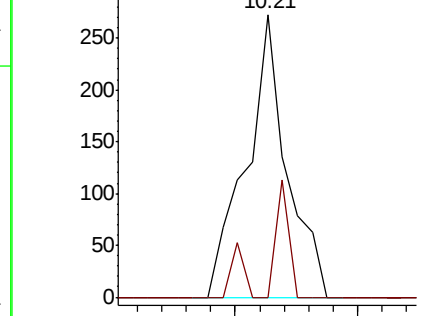
43 100

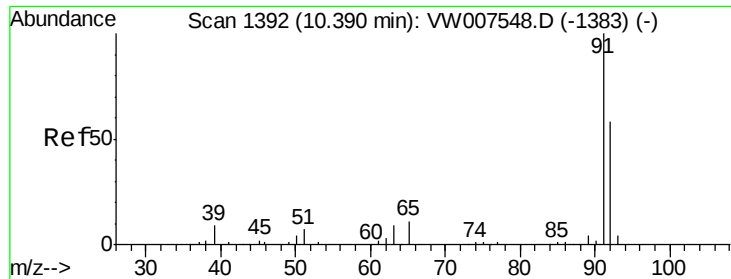
58 13.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#52

Toluene

Concen: 2.338 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007646.D

Acq: 17 Dec 2018 21:34

Instrument :

MSVOA_W

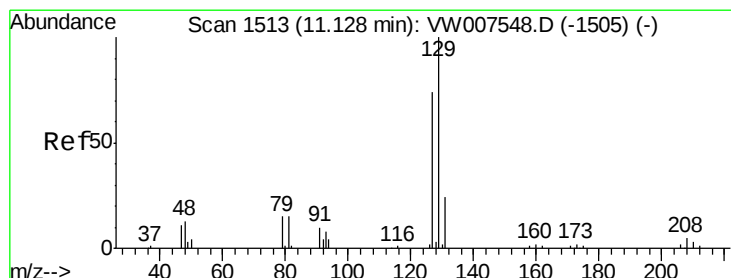
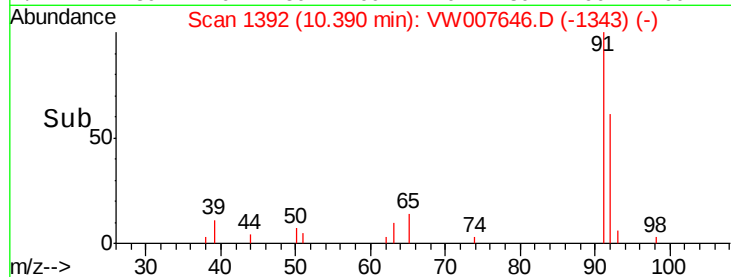
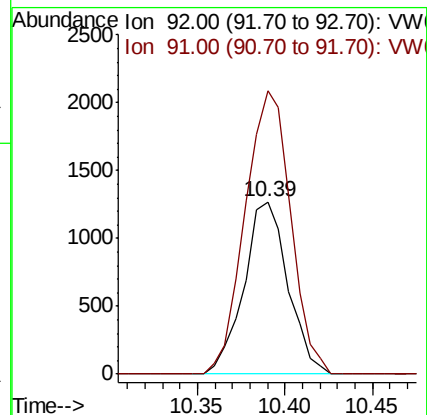
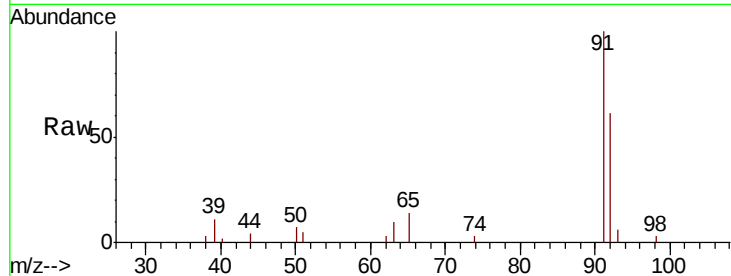
ClientSampleId :

Tot Ion: 92 Resp: 2217

Ion Ratio Lower Upper

92 100

91 170.9 136.2 204.2



#60

Dibromochloromethane

Concen: 4.577 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW007646.D

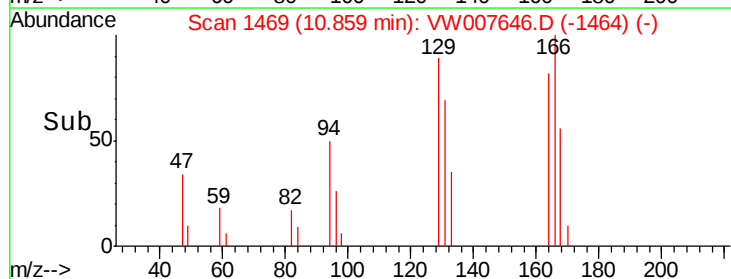
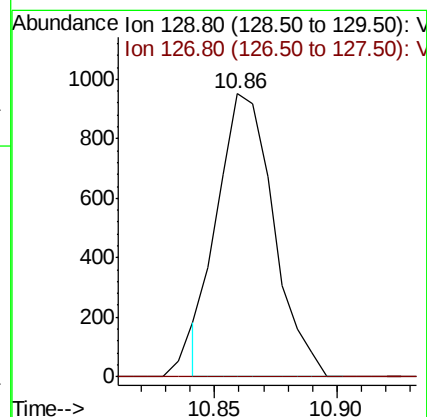
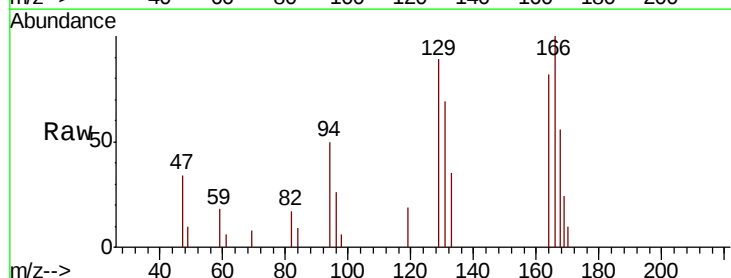
Acq: 17 Dec 2018 21:34

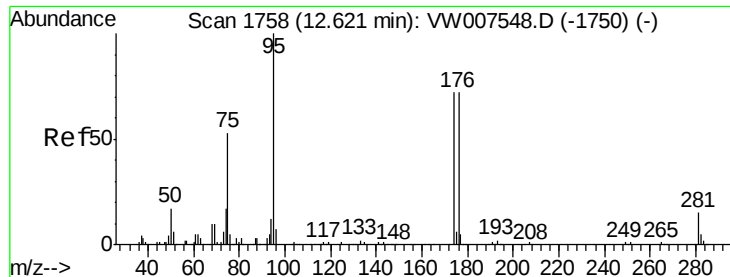
Tgt Ion: 129 Resp: 1514

Ion Ratio Lower Upper

129 100

127 0.0 38.1 114.3#

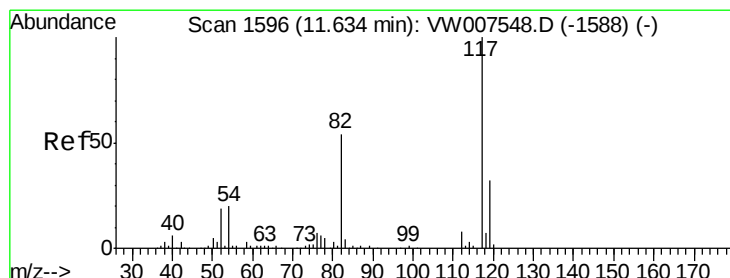
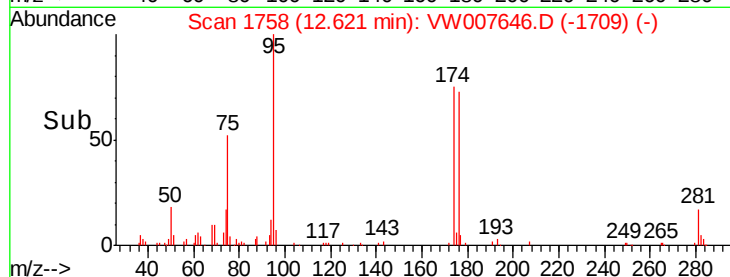
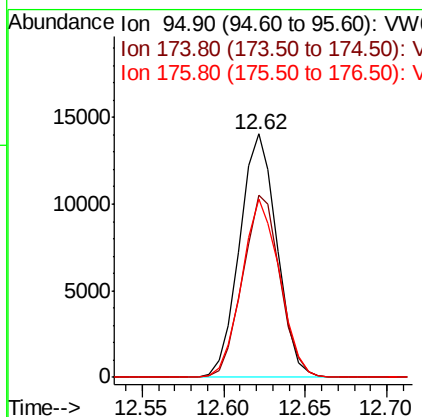
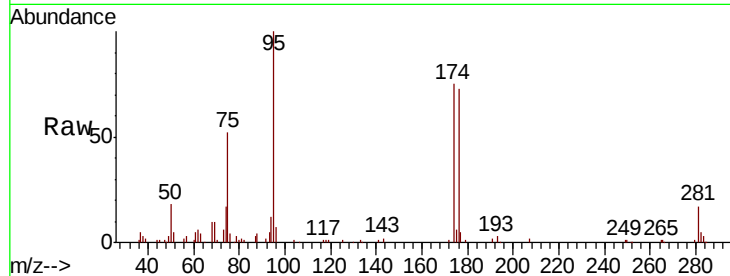




#62
4-Bromofluorobenzene
Concen: 46.315 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW007646.D
Acq: 17 Dec 2018 21:34

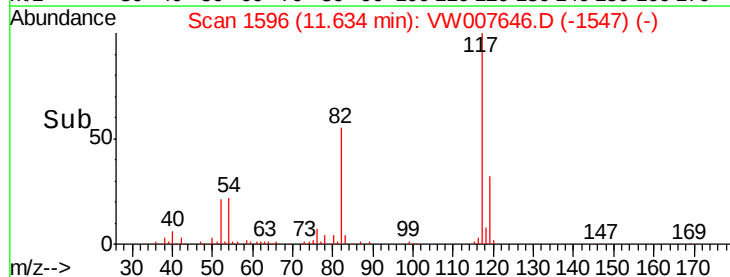
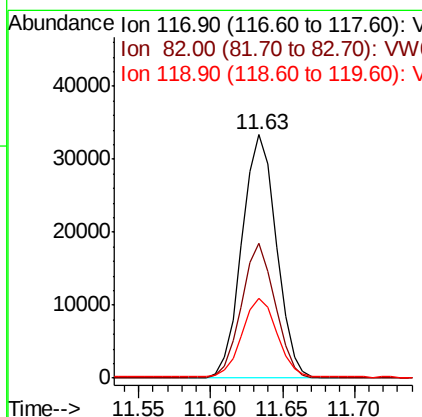
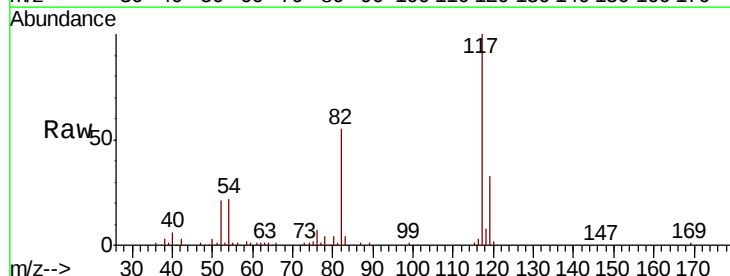
Instrument :
MSVOA_W
ClientSampleId :

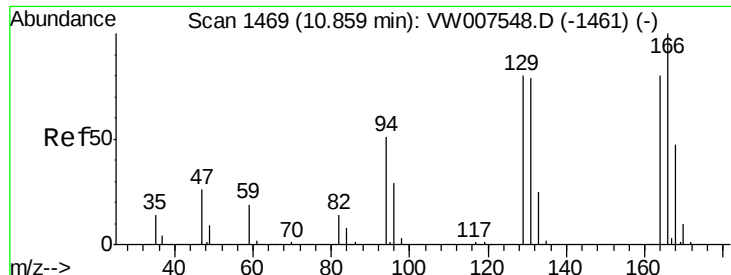
Tot Ion: 95 Resp: 22374
Ion Ratio Lower Upper
95 100
174 75.0 0.0 147.2
176 74.4 0.0 138.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW007646.D
Acq: 17 Dec 2018 21:34

Tgt Ion: 117 Resp: 55365
Ion Ratio Lower Upper
117 100
82 55.4 42.3 63.5
119 32.3 23.0 34.6





#64

Tetrachloroethene

Concen: 4.059 ug/l

RT: 10.87 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VW007646.D

Acq: 17 Dec 2018 21:34

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:164 Resp: 1616

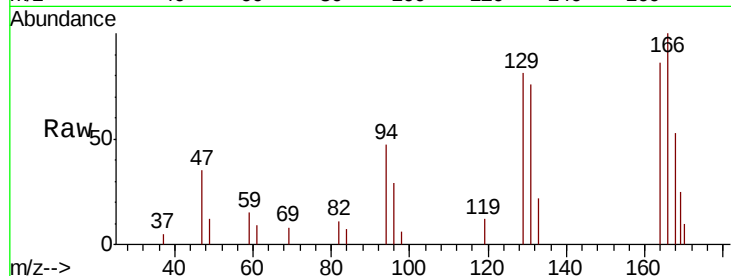
Ion Ratio Lower Upper

164 100

166 115.8 107.9 161.9

129 93.8 73.4 110.2

131 88.5 75.8 113.6

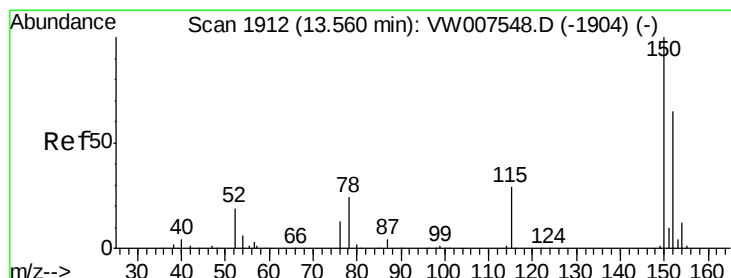
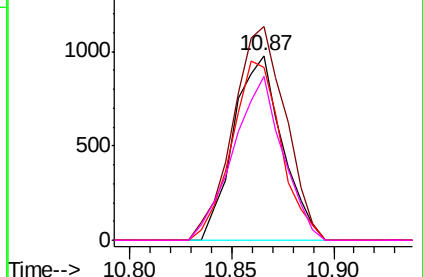
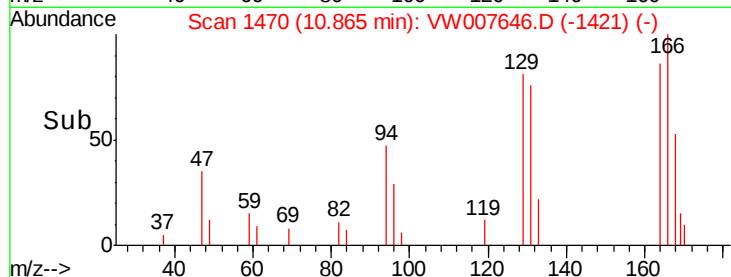


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW007646.D

Acq: 17 Dec 2018 21:34

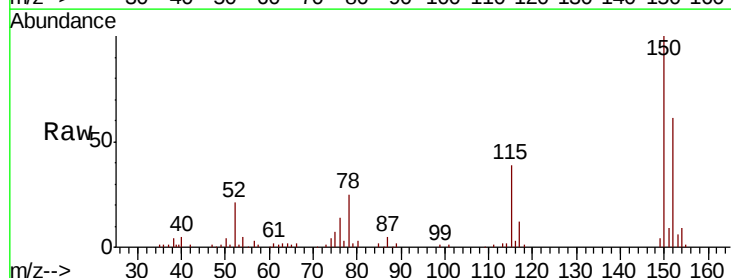
Tgt Ion:152 Resp: 19231

Ion Ratio Lower Upper

152 100

115 64.0 31.4 94.2

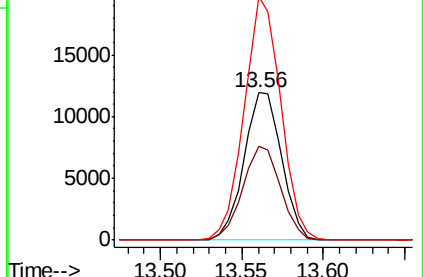
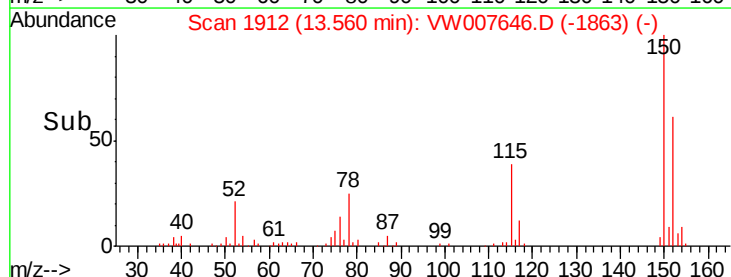
150 160.1 0.0 358.4

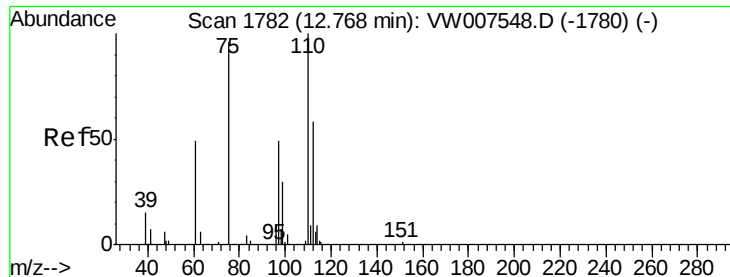


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 73.276 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007646.D

Acq: 17 Dec 2018 21:34

Instrument :

MSVOA_W

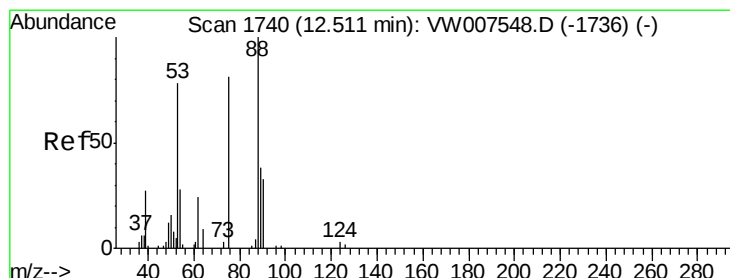
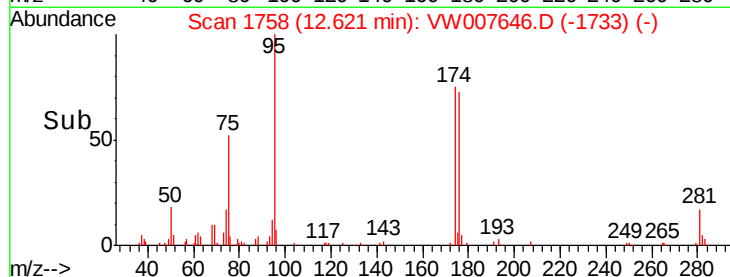
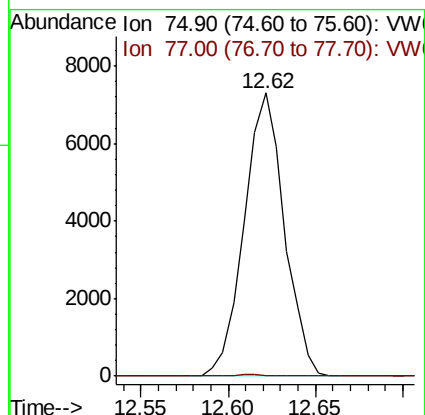
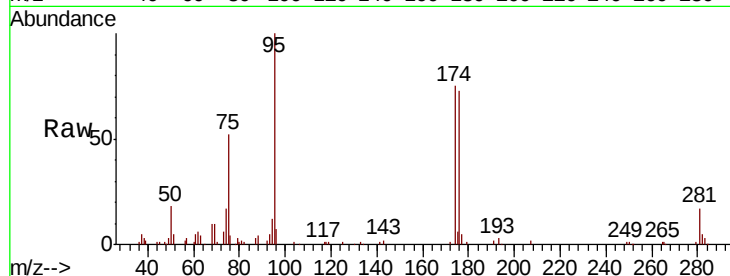
ClientSampleId :

Tot Ion: 75 Resp: 11619

Ion Ratio Lower Upper

75 100

77 0.3 166.9 500.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 161.867 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW007646.D

Acq: 17 Dec 2018 21:34

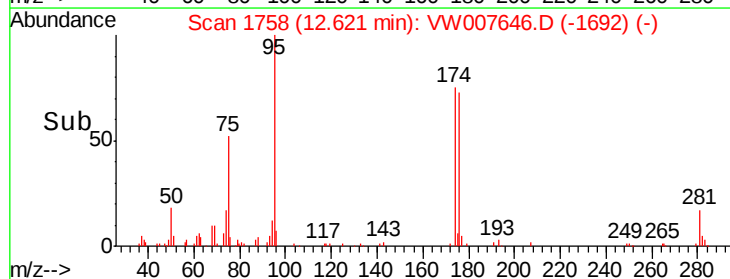
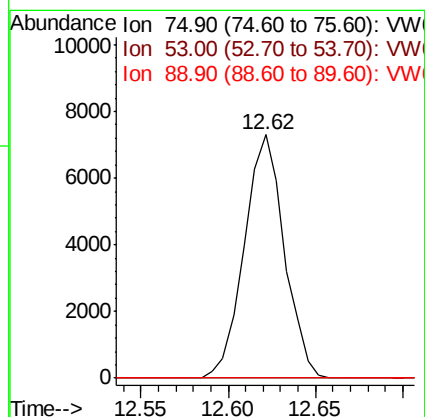
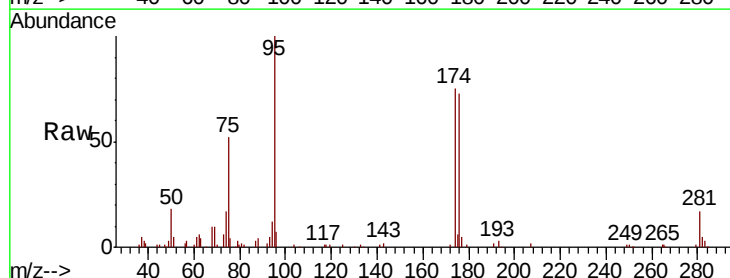
Tgt Ion: 75 Resp: 11619

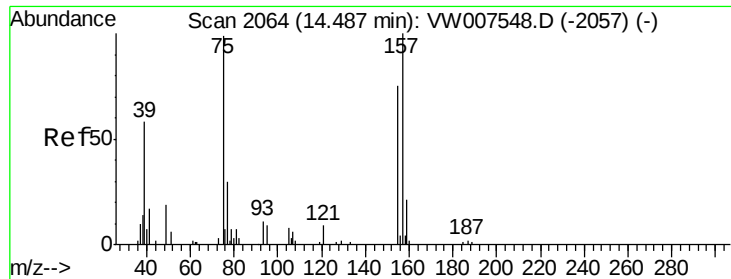
Ion Ratio Lower Upper

75 100

53 0.0 84.9 127.3#

89 0.0 40.3 60.5#





#92

1,2-Dibromo-3-Chloropropane

Concen: 5.845 ug/l

RT: 14.34 min Scan# 2040

Delta R.T. -0.15 min

Lab File: VW007646.D

Acq: 17 Dec 2018 21:34

Instrument :

MSVOA_W

ClientSampleId :

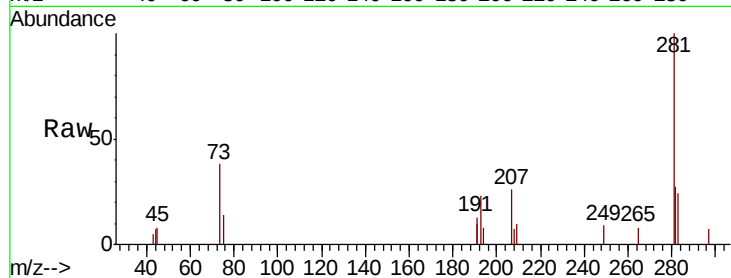
Tot Ion: 75 Resp: 256

Ion Ratio Lower Upper

75 100

155 0.0 40.8 122.2#

157 0.0 51.1 153.4#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

