

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW021419\
 Data File : VW008668.D
 Acq On : 14 Feb 2019 16:07
 Operator : SY/VA
 Sample : K1490-01RE
 Misc : 5.28G/5ML/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-1-214RE

Quant Time: Feb 15 02:49:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 04:06:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	239061	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	329686	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	239985	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	86196	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	108392	43.61	ug/l	0.00
Spiked Amount			Recovery	=	87.22%	
35) Dibromofluoromethane	7.88	113	99222	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
50) Toluene-d8	10.32	98	379315	48.07	ug/l	0.00
Spiked Amount			Recovery	=	96.14%	
62) 4-Bromofluorobenzene	12.62	95	100835	33.92	ug/l	0.00
Spiked Amount			Recovery	=	67.84%	

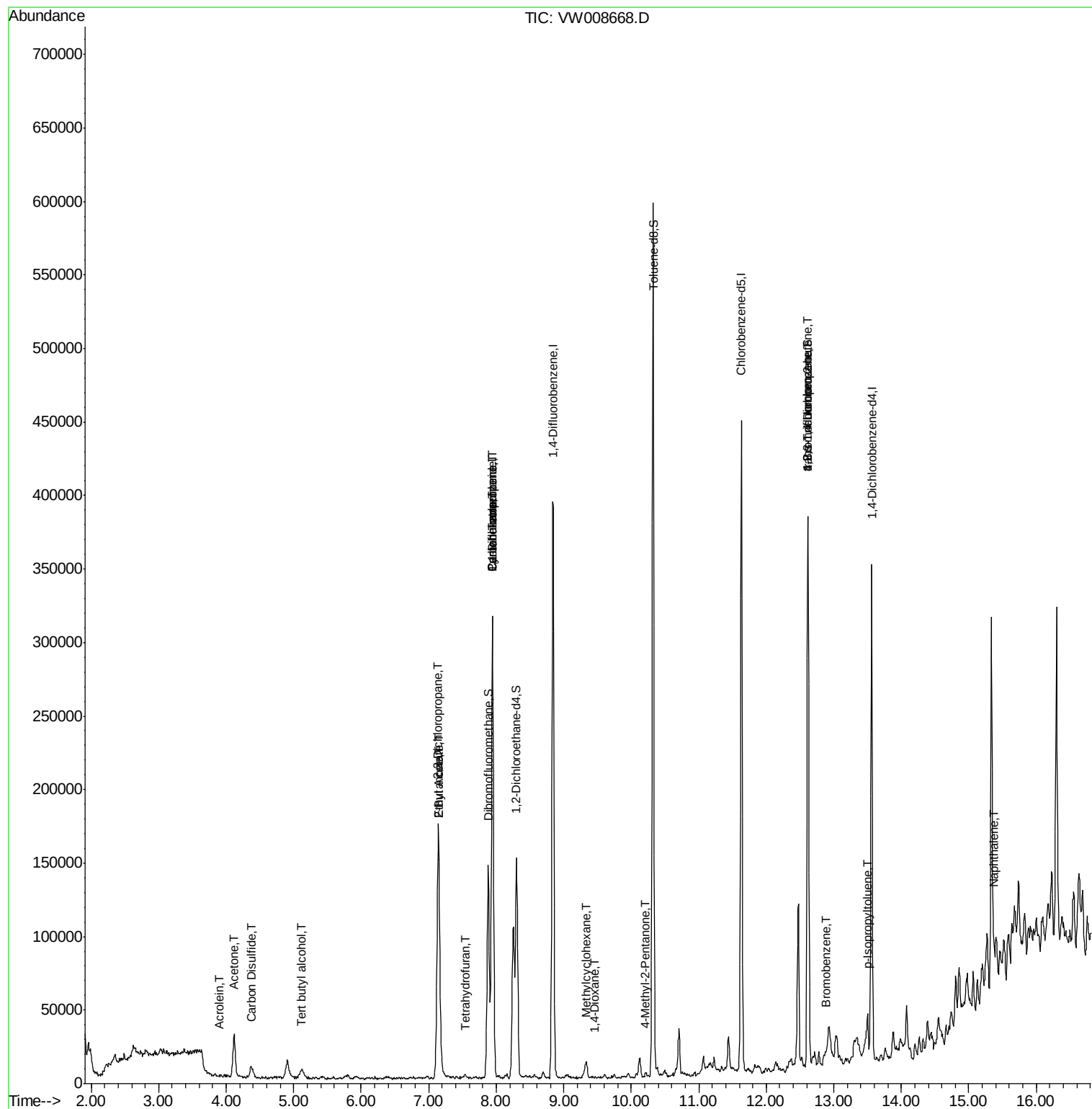
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.10	59	2714	13.648	ug/l #	94
13) Acrolein	3.89	56	603	2.943	ug/l #	79
16) Acetone	4.12	43	48756	86.208	ug/l	90
17) Carbon Disulfide	4.37	76	10953	1.555	ug/l #	83
20) Methylene Chloride	4.91	84	7674	Below Cal	#	85
25) 2-Butanone	7.16	43	19719	24.692	ug/l #	86
26) 2,2-Dichloropropane	7.14	77	11578	4.115	ug/l #	55
29) Tetrahydrofuran	7.54	42	2470	4.693	ug/l #	84
31) Cyclohexane	7.95	56	7704	1.695	ug/l #	47
36) 1,1-Dichloropropene	7.94	75	18586	5.611	ug/l #	52
37) Ethyl Acetate	7.16	43	20022	12.531	ug/l #	55
38) Carbon Tetrachloride	7.95	117	23475	7.127	ug/l #	17
39) Methylcyclohexane	9.34	83	4684	1.118	ug/l #	85
49) 1,4-Dioxane	9.45	88	48	2.438	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	1950	1.191	ug/l	97
76) 1,2,3-Trichloropropane	12.62	75	50937	59.845	ug/l #	100
77) Bromobenzene	12.88	156	4276	2.897	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	50937	127.818	ug/l #	7
86) p-Isopropyltoluene	13.50	119	13003	2.156	ug/l	92
95) Naphthalene	15.37	128	23134	6.841	ug/l #	93

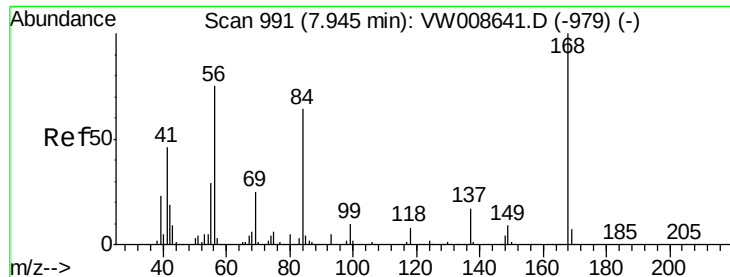
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW021419\
Data File : VW008668.D
Acq On : 14 Feb 2019 16:07
Operator : SY/VA
Sample : K1490-01RE
Misc : 5.28G/5ML/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-1-214RE

Quant Time: Feb 15 02:49:21 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W021319S.M
Quant Title : SW846 8260
QLast Update : Thu Feb 14 04:06:50 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: VW008668.D

Acq: 14 Feb 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

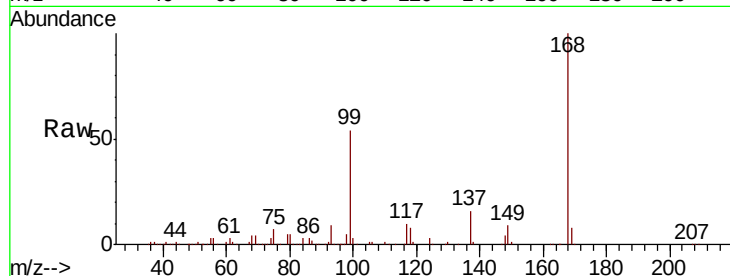
TP-1-214RE

Tgt Ion:168 Resp: 239061

Ion Ratio Lower Upper

168 100

99 54.0 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

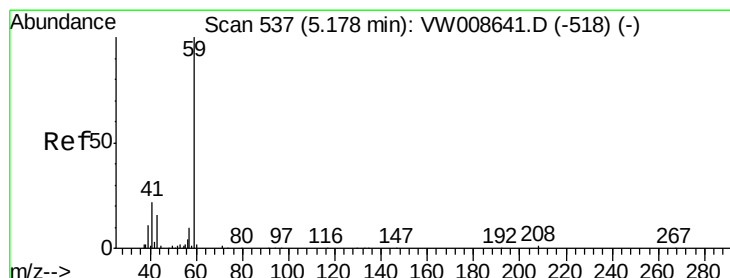
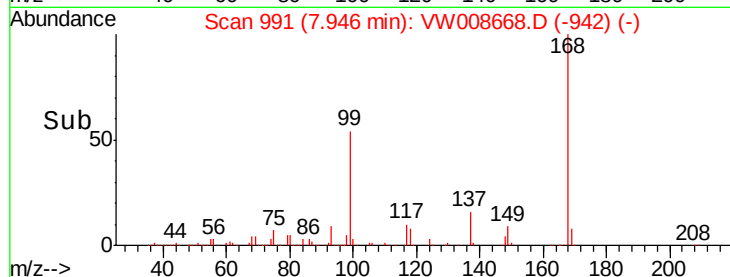
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 13.648 ug/l

RT: 5.10 min Scan# 525

Delta R.T. -0.07 min

Lab File: VW008668.D

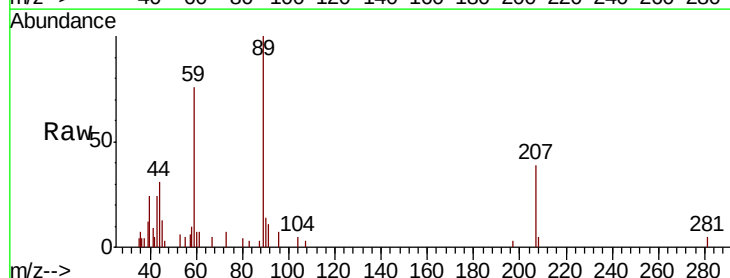
Acq: 14 Feb 2019 16:07

Tgt Ion: 59 Resp: 2714

Ion Ratio Lower Upper

59 100

57 12.8 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.10

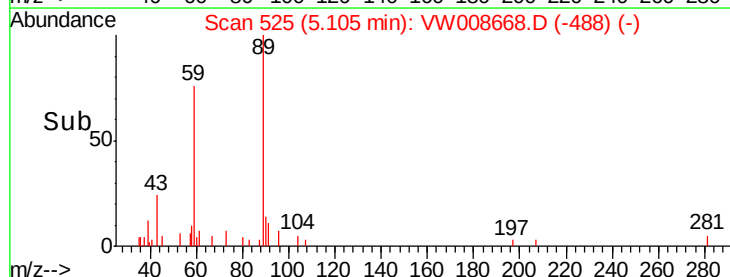
1500

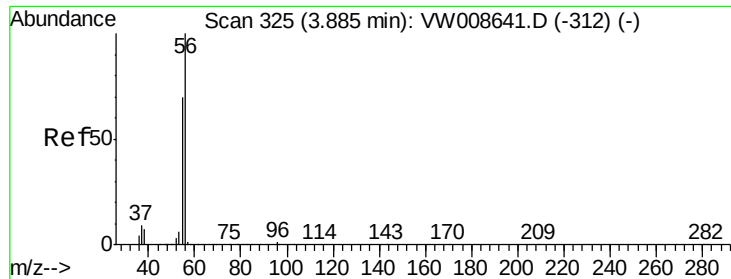
1000

500

0

Time-->





#13

Acrolein

Concen: 2.943 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.01 min

Lab File: VW008668.D

Acq: 14 Feb 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

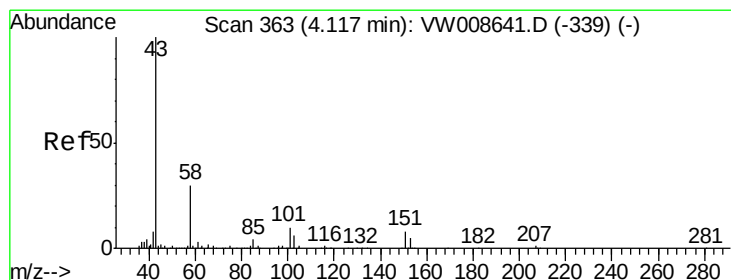
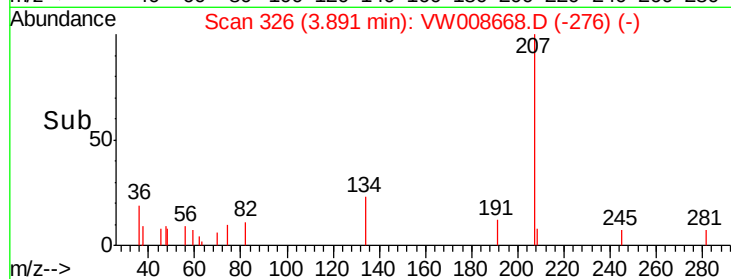
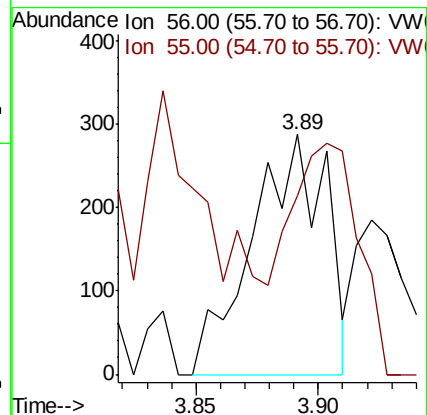
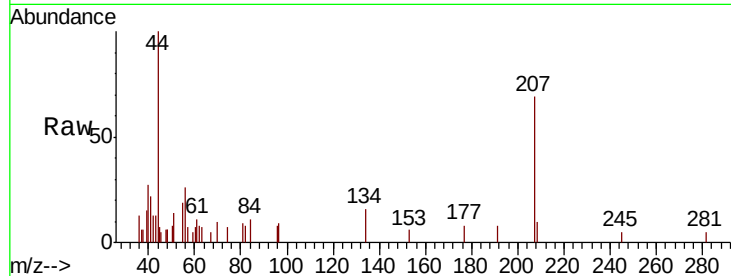
TP-1-214RE

Tgt Ion: 56 Resp: 603

Ion Ratio Lower Upper

56 100

55 89.4 57.4 86.2#



#16

Acetone

Concen: 86.208 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW008668.D

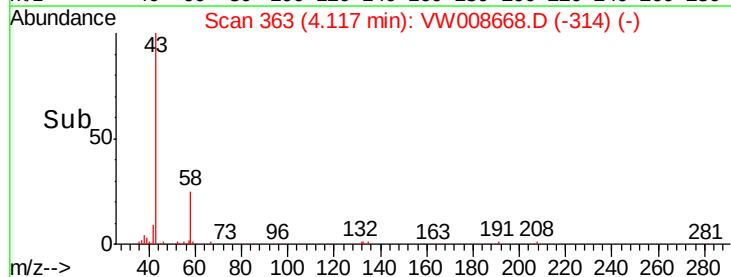
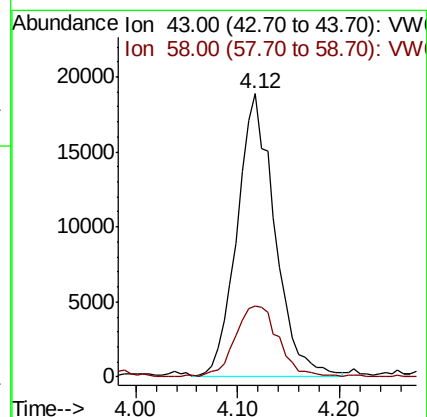
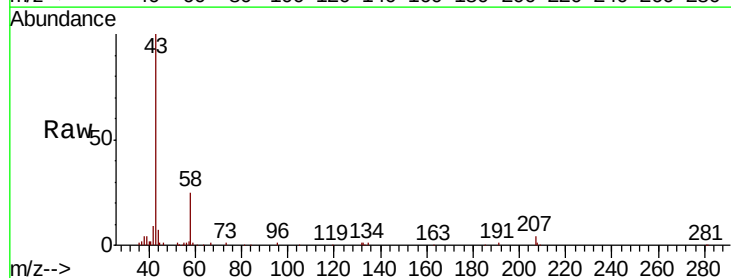
Acq: 14 Feb 2019 16:07

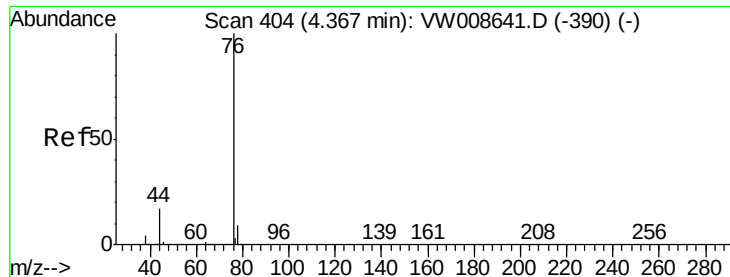
Tgt Ion: 43 Resp: 48756

Ion Ratio Lower Upper

43 100

58 24.8 24.1 36.1





#17

Carbon Disulfide

Concen: 1.555 ug/l

RT: 4.37 min Scan# 405

Delta R.T. 0.01 min

Lab File: VW008668.D

Acq: 14 Feb 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

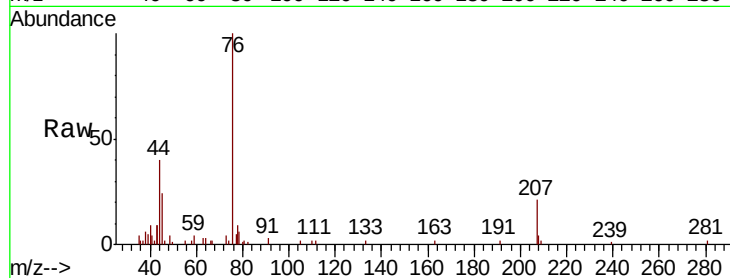
TP-1-214RE

Tgt Ion: 76 Resp: 10953

Ion Ratio Lower Upper

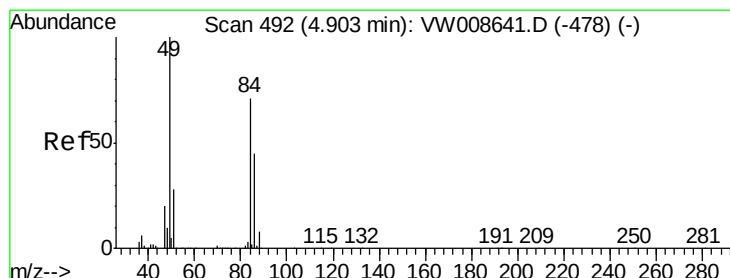
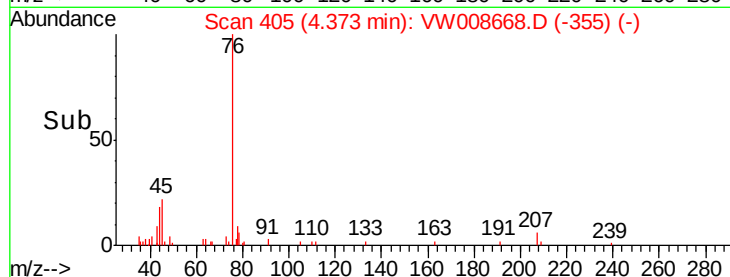
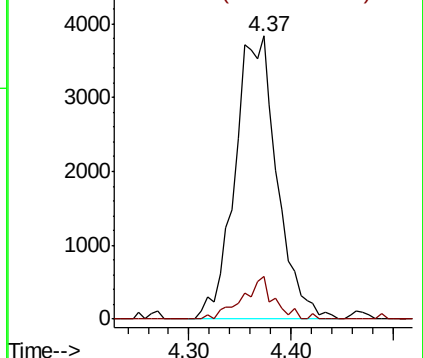
76 100

78 15.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#20

Methylene Chloride

Concen: Below Cal

RT: 4.91 min Scan# 493

Delta R.T. 0.01 min

Lab File: VW008668.D

Acq: 14 Feb 2019 16:07

Tgt Ion: 84 Resp: 7674

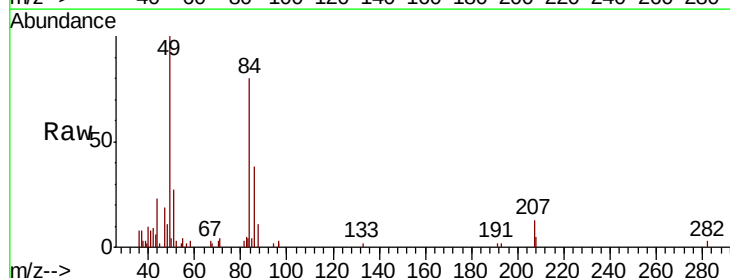
Ion Ratio Lower Upper

84 100

49 124.5 113.3 169.9

51 33.6 32.1 48.1

86 46.8 50.9 76.3#

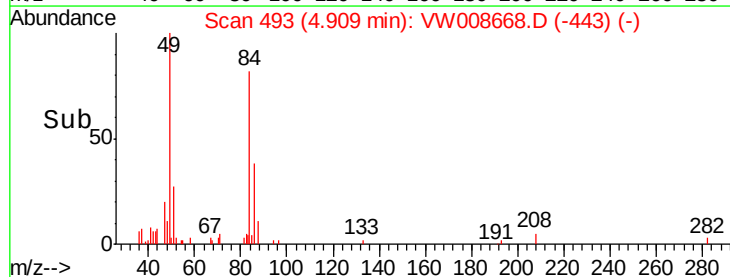
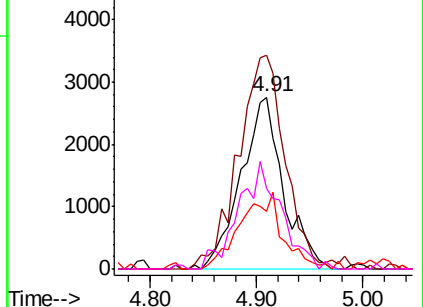


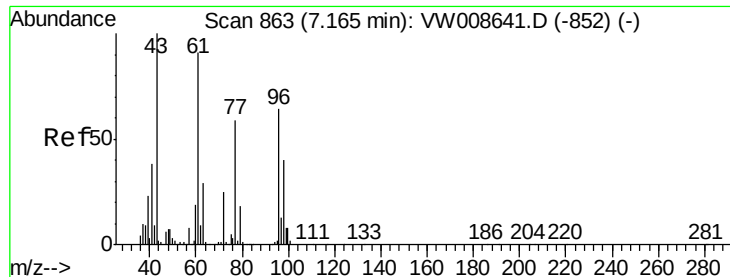
Abundance Ion 83.90 (83.60 to 84.60): VW

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





#25

2-Butanone

Concen: 24.692 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW008668.D

Acq: 14 Feb 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

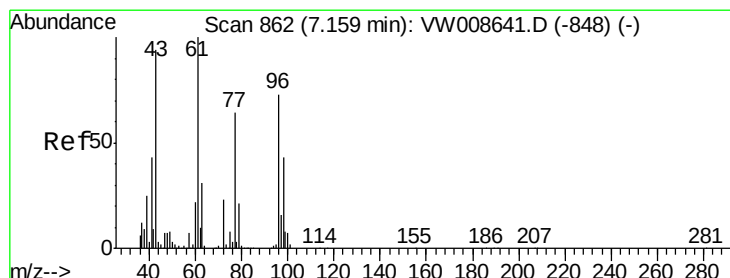
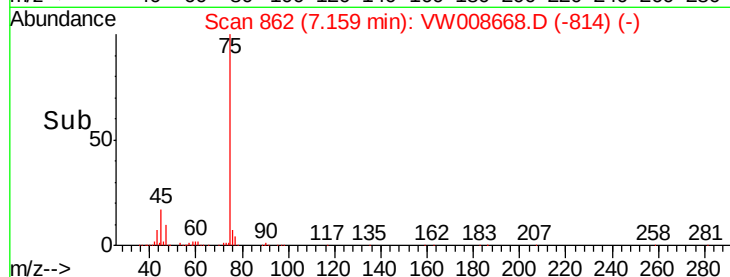
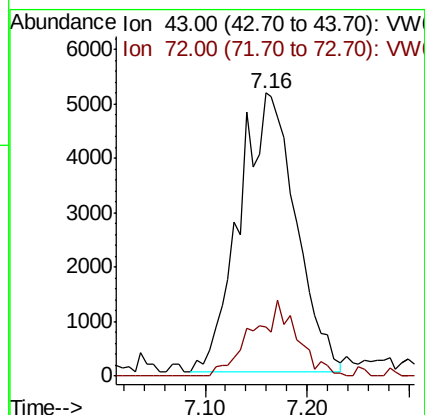
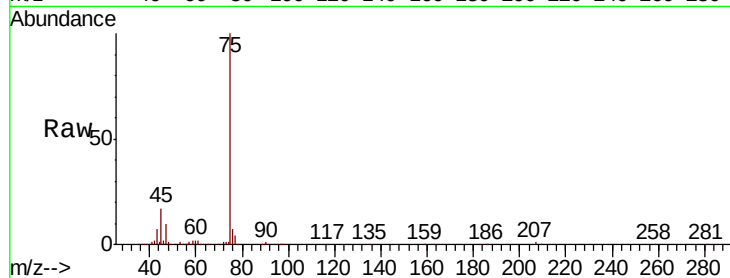
TP-1-214RE

Tgt Ion: 43 Resp: 19719

Ion Ratio Lower Upper

43 100

72 17.5 19.7 29.5#



#26

2,2-Dichloropropane

Concen: 4.115 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW008668.D

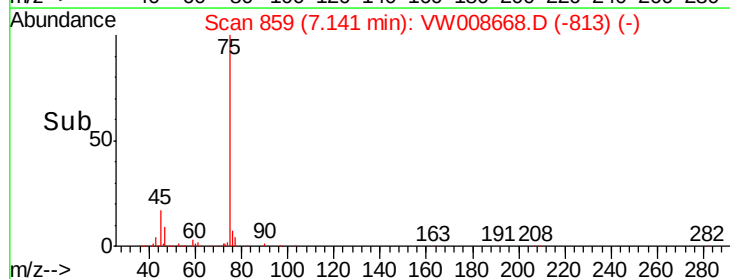
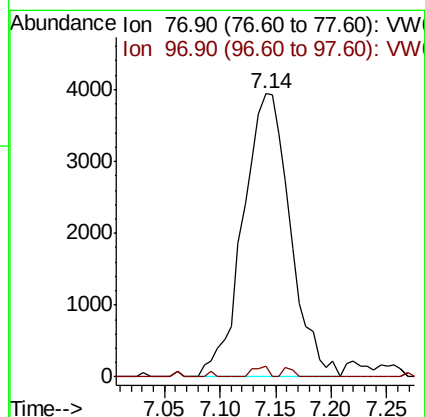
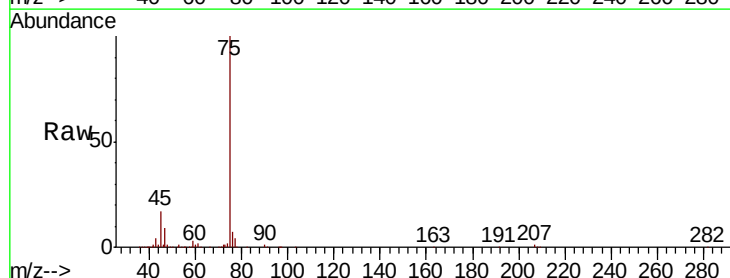
Acq: 14 Feb 2019 16:07

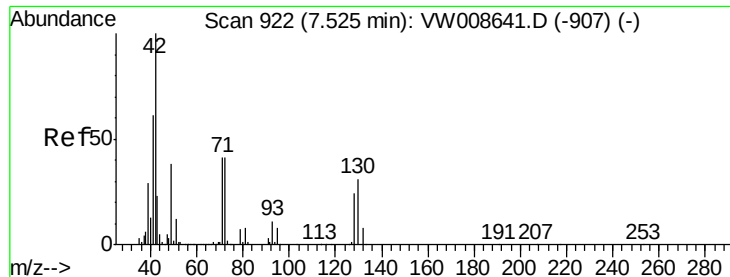
Tgt Ion: 77 Resp: 11578

Ion Ratio Lower Upper

77 100

97 1.2 11.7 35.0#





#29

Tetrahydrofuran

Concen: 4.693 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW008668.D

Acq: 14 Feb 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

TP-1-214RE

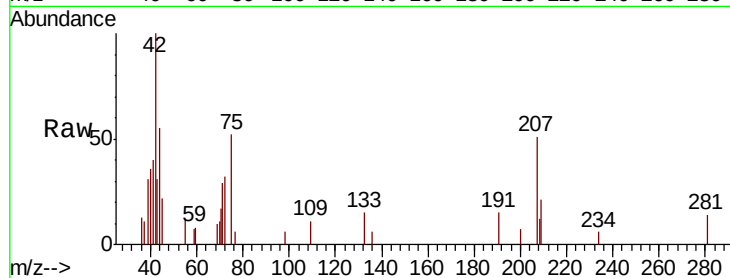
Tgt Ion: 42 Resp: 2470

Ion Ratio Lower Upper

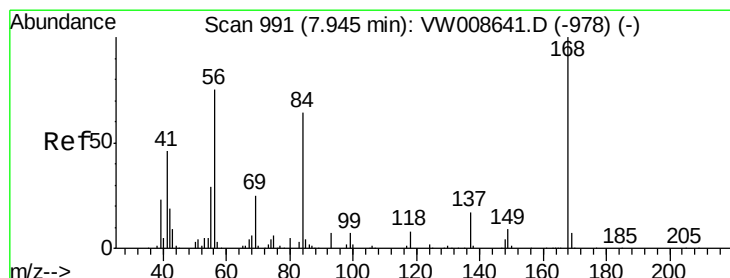
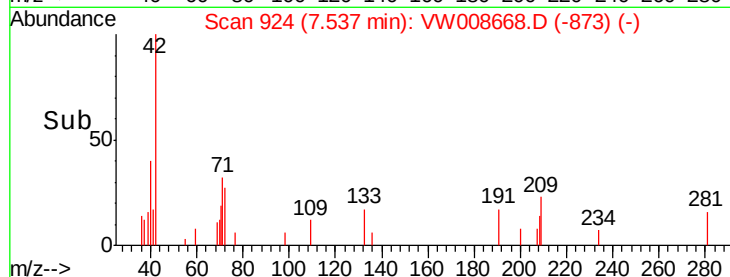
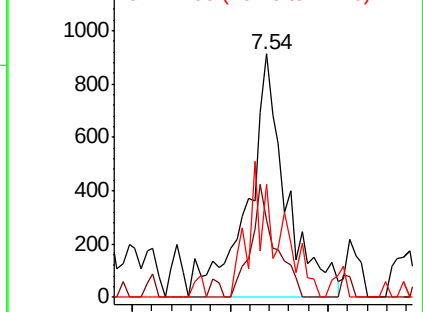
42 100

72 29.6 32.2 48.2#

71 29.1 31.0 46.6#



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.695 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008668.D

Acq: 14 Feb 2019 16:07

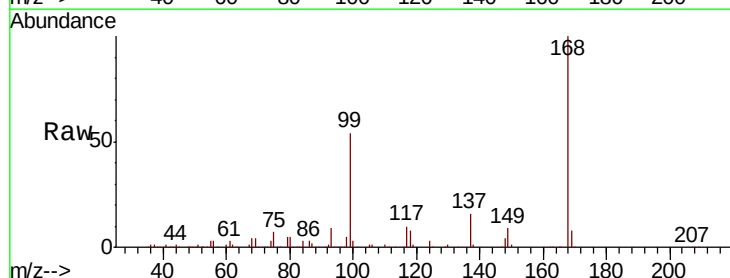
Tgt Ion: 56 Resp: 7704

Ion Ratio Lower Upper

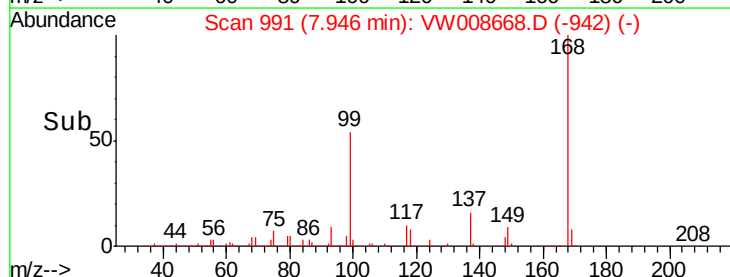
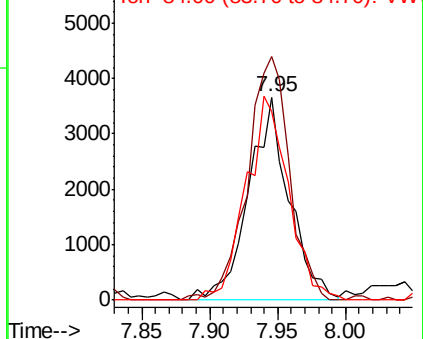
56 100

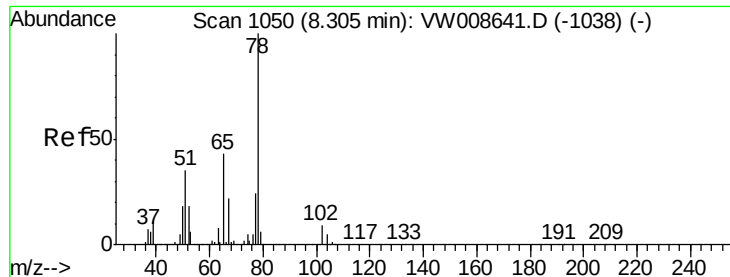
69 122.1 26.4 39.6#

84 94.6 67.4 101.2



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

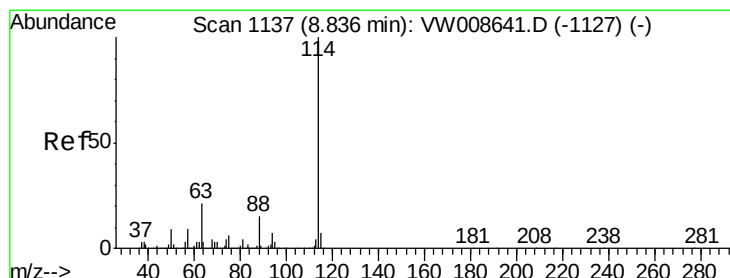
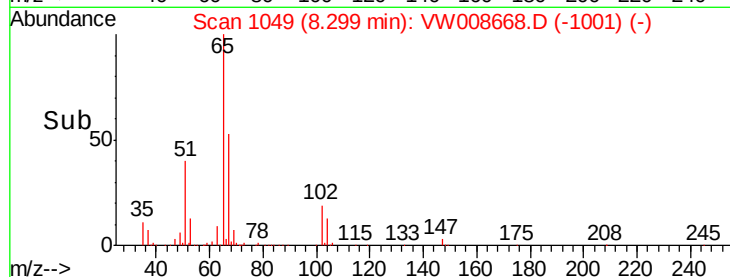
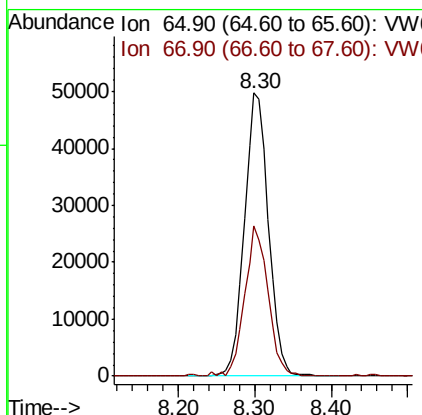
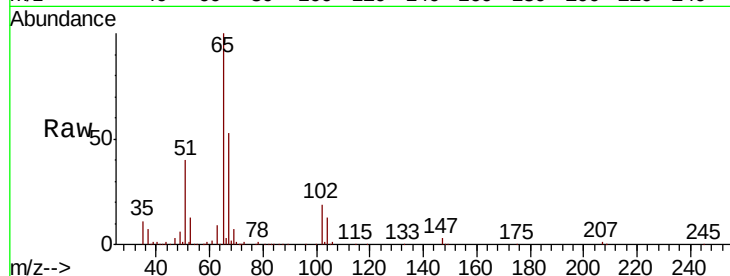




#33
 1,2-Dichloroethane-d4
 Concen: 43.612 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW008668.D
 Acq: 14 Feb 2019 16:07

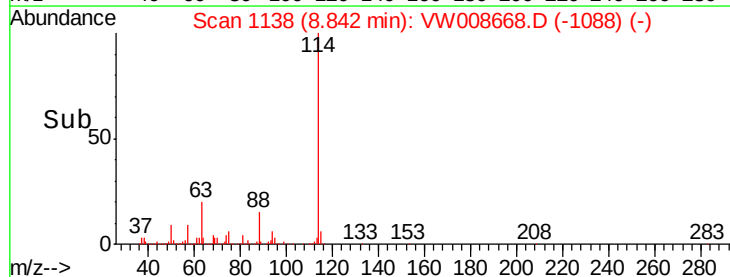
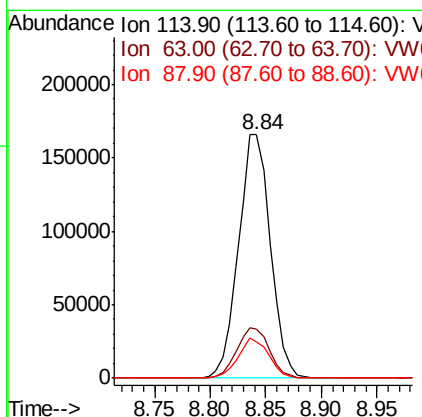
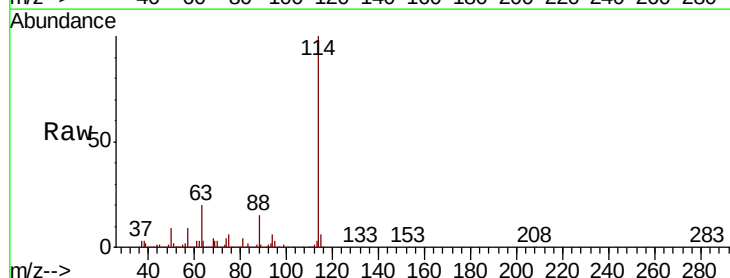
Instrument :
 MSVOA_W
 ClientSampleId :
 TP-1-214RE

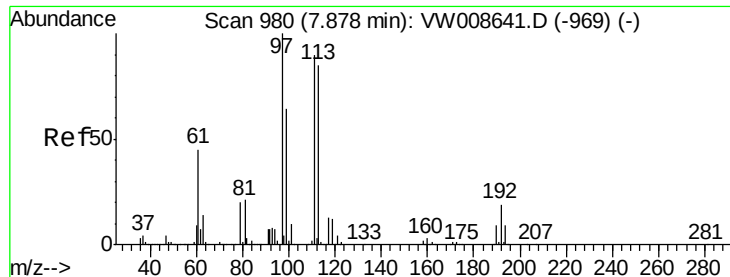
Tgt Ion: 65 Resp: 108392
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.01 min
 Lab File: VW008668.D
 Acq: 14 Feb 2019 16:07

Tgt Ion: 114 Resp: 329686
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 41.2
 88 15.1 0.0 29.6





#35

Dibromofluoromethane

Concen: 48.468 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW008668.D

Acq: 14 Feb 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

TP-1-214RE

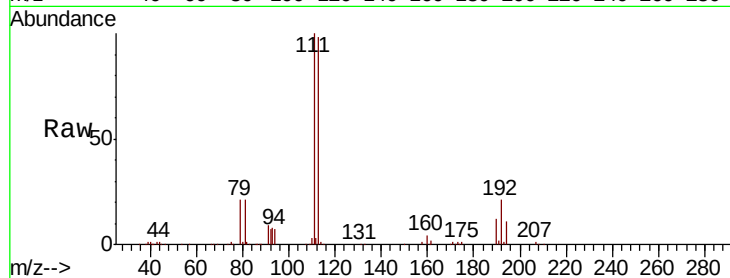
Tgt Ion:113 Resp: 99222

Ion Ratio Lower Upper

113 100

111 103.1 84.0 126.0

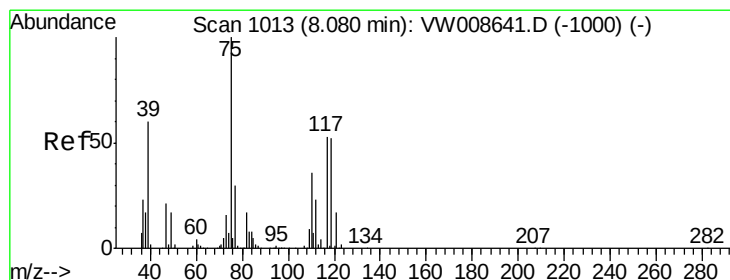
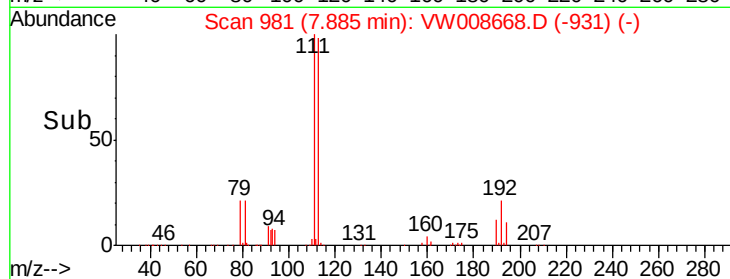
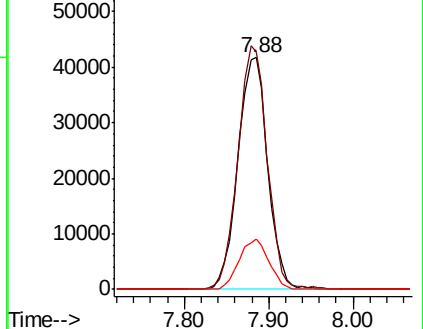
192 21.8 17.4 26.2



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: 5.611 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW008668.D

Acq: 14 Feb 2019 16:07

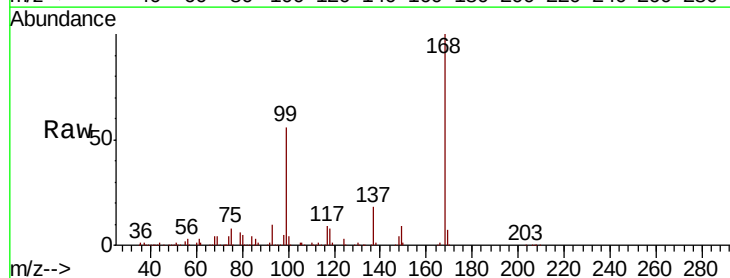
Tgt Ion: 75 Resp: 18586

Ion Ratio Lower Upper

75 100

110 11.4 17.8 53.3#

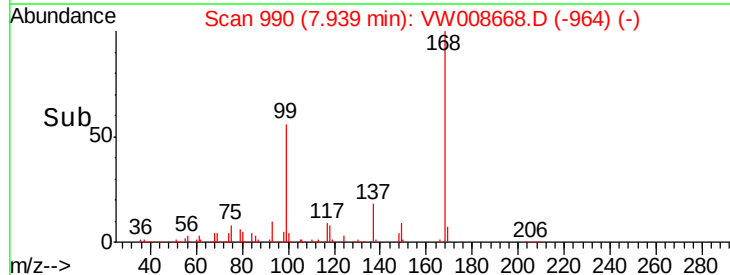
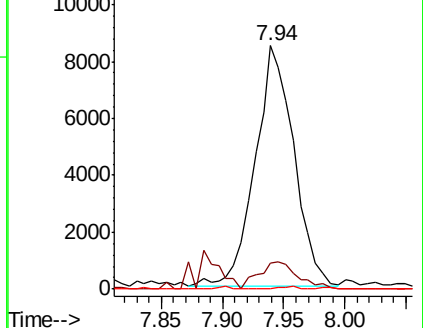
77 0.4 24.7 37.1#

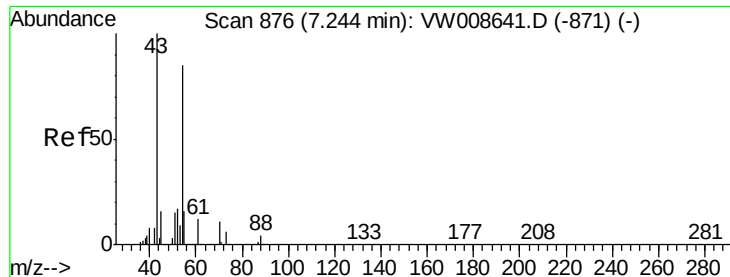


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

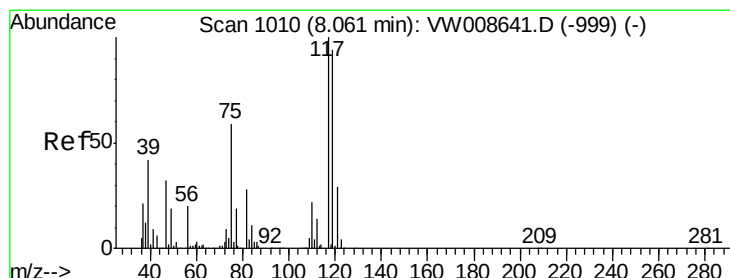
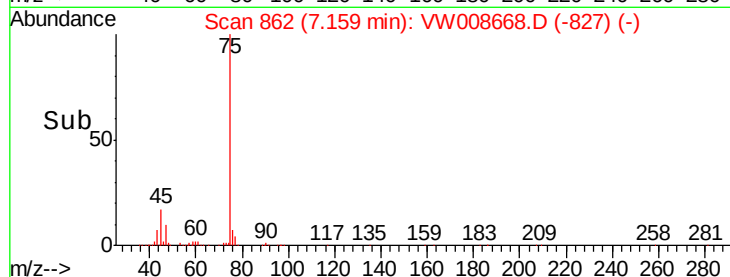
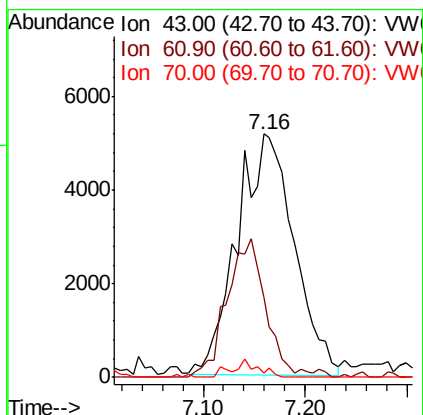
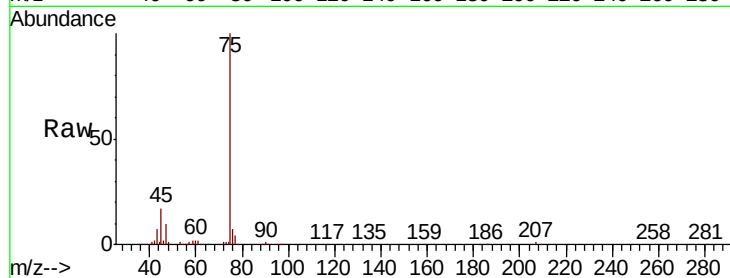




#37
Ethyl Acetate
Concen: 12.531 ug/l
RT: 7.16 min Scan# 862
Delta R.T. -0.09 min
Lab File: VW008668.D
Acq: 14 Feb 2019 16:07

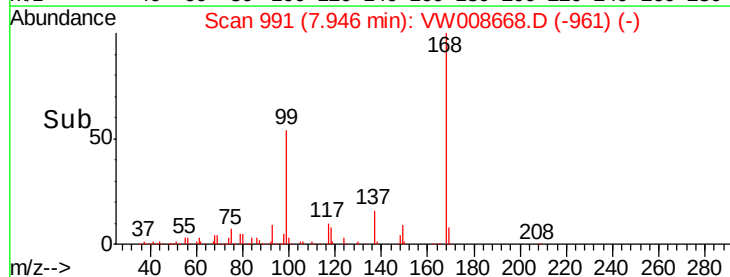
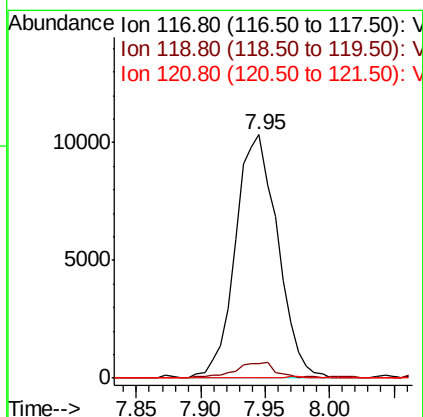
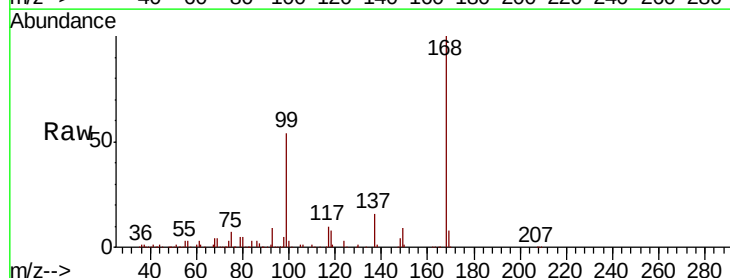
Instrument :
MSVOA_W
ClientSampleId :
TP-1-214RE

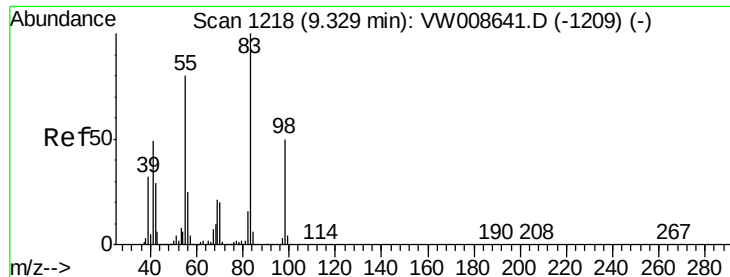
Tgt Ion: 43 Resp: 20022
Ion Ratio Lower Upper
43 100
61 39.4 10.5 15.7#
70 3.3 8.1 12.1#



#38
Carbon Tetrachloride
Concen: 7.127 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW008668.D
Acq: 14 Feb 2019 16:07

Tgt Ion: 117 Resp: 23475
Ion Ratio Lower Upper
117 100
119 5.9 75.1 112.7#
121 0.0 23.5 35.3#





#39

Methylcyclohexane

Concen: 1.118 ug/l

RT: 9.34 min Scan# 1219

Delta R.T. 0.01 min

Lab File: VW008668.D

Acq: 14 Feb 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

TP-1-214RE

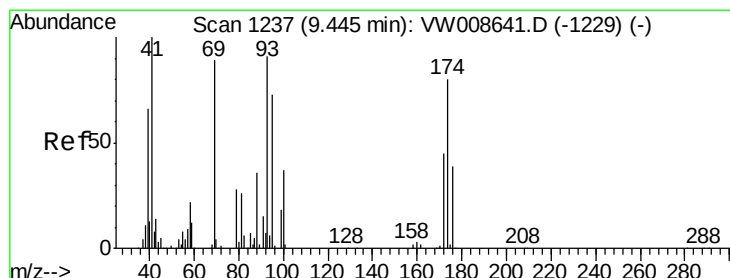
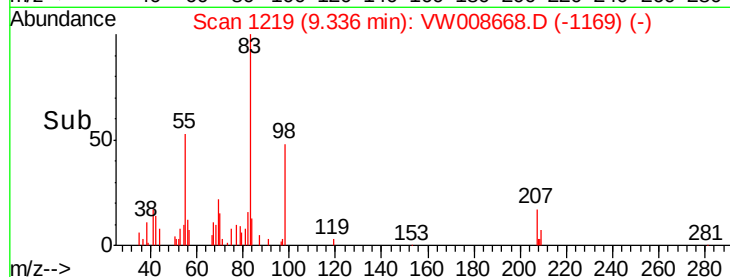
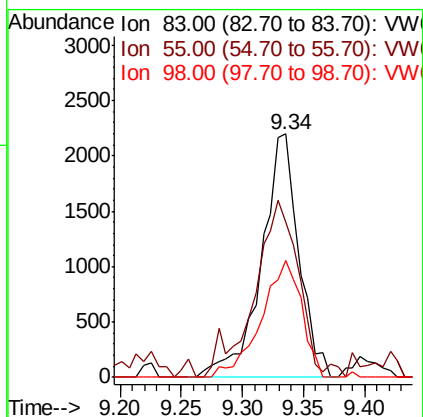
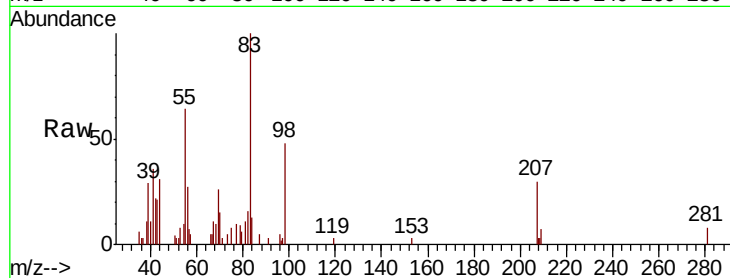
Tgt Ion: 83 Resp: 4684

Ion Ratio Lower Upper

83 100

55 59.5 63.9 95.9#

98 48.0 40.2 60.2



#49

1,4-Dioxane

Concen: 2.438 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VW008668.D

Acq: 14 Feb 2019 16:07

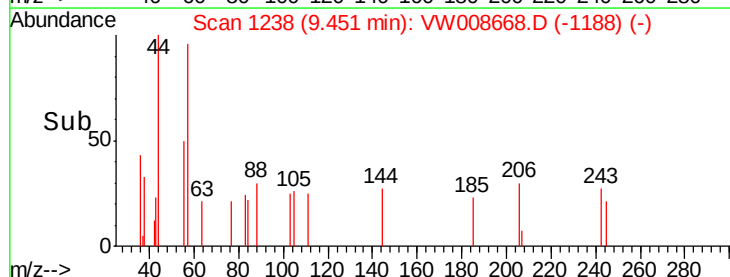
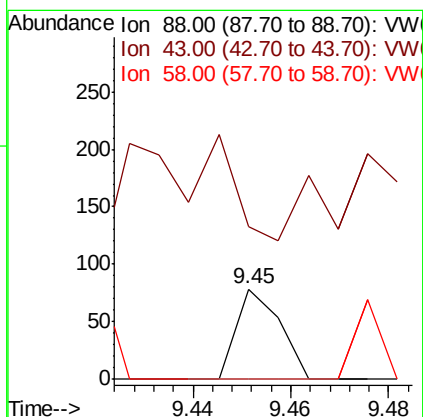
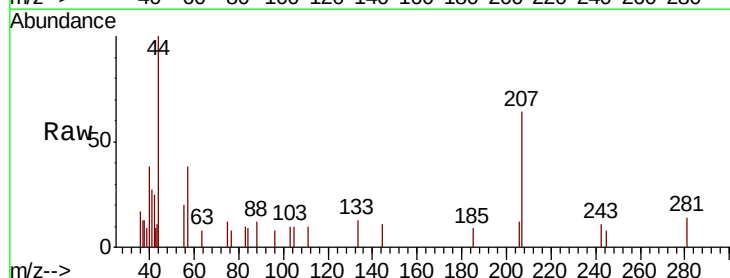
Tgt Ion: 88 Resp: 48

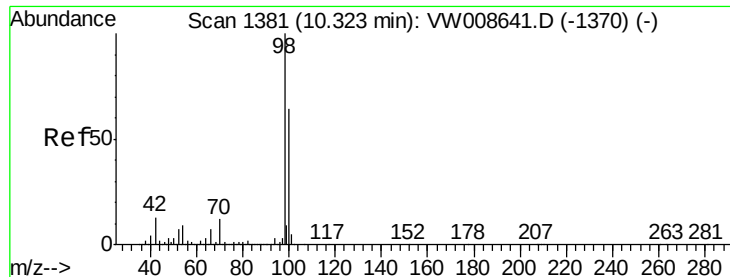
Ion Ratio Lower Upper

88 100

43 337.5 31.0 46.6#

58 0.0 57.0 85.6#





#50

Toluene-d8

Concen: 48.066 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008668.D

Acq: 14 Feb 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

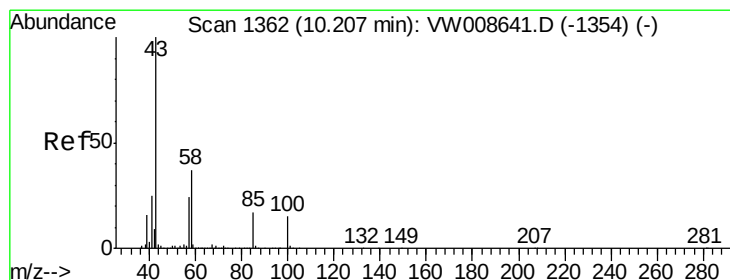
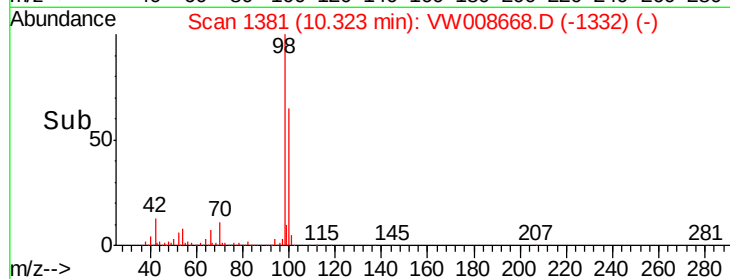
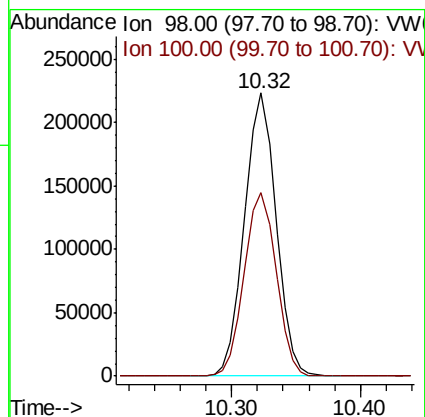
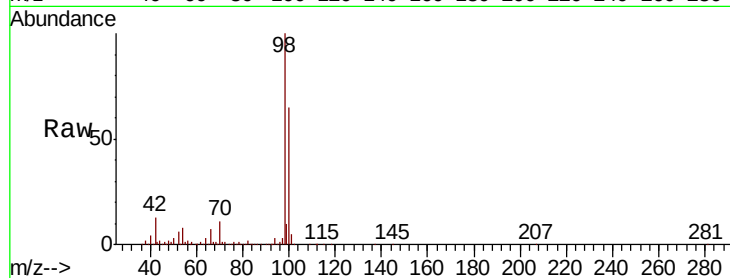
TP-1-214RE

Tgt Ion: 98 Resp: 379315

Ion Ratio Lower Upper

98 100

100 66.1 52.2 78.4



#51

4-Methyl-2-Pentanone

Concen: 1.191 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW008668.D

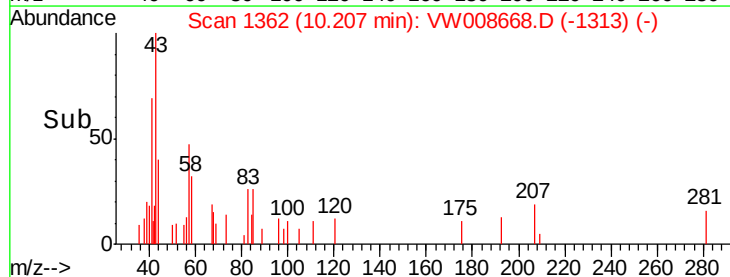
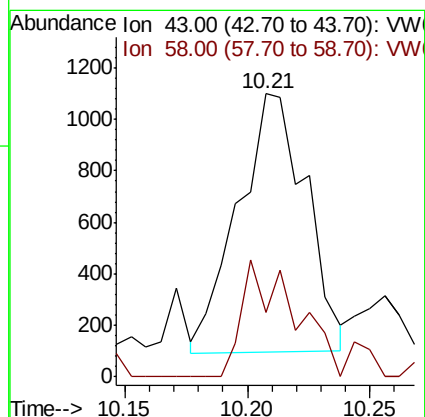
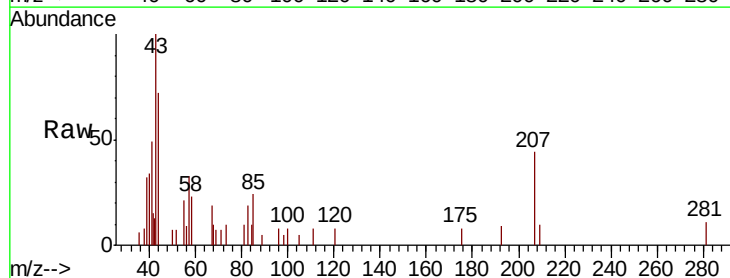
Acq: 14 Feb 2019 16:07

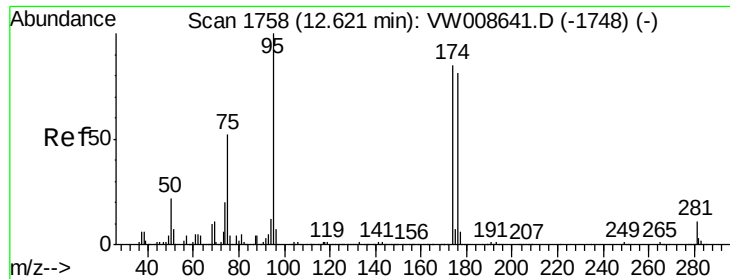
Tgt Ion: 43 Resp: 1950

Ion Ratio Lower Upper

43 100

58 34.8 29.0 43.6





#62

4-Bromofluorobenzene

Concen: 33.923 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008668.D

Acq: 14 Feb 2019 16:07

Instrument :

MSVOA_W

ClientSampled :

TP-1-214RE

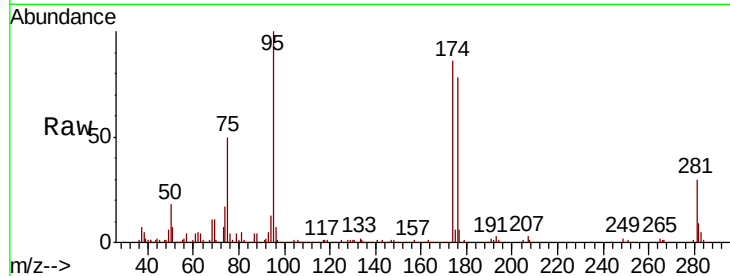
Tgt Ion: 95 Resp: 100835

Ion Ratio Lower Upper

95 100

174 83.0 0.0 163.2

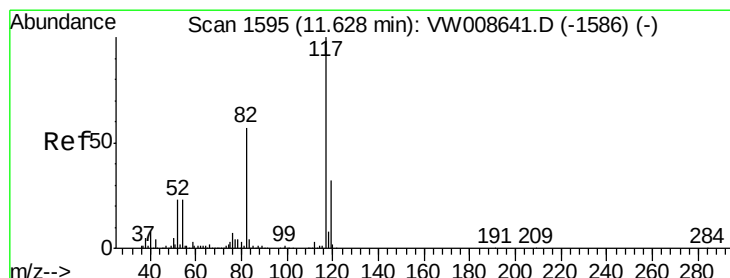
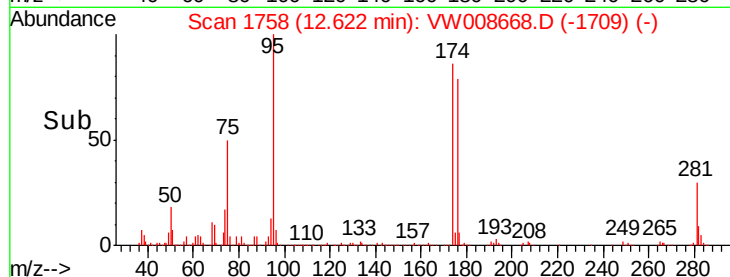
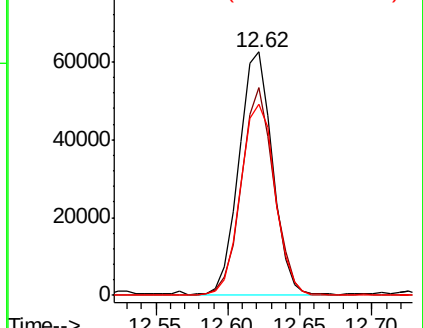
176 81.0 0.0 158.0



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. 0.01 min

Lab File: VW008668.D

Acq: 14 Feb 2019 16:07

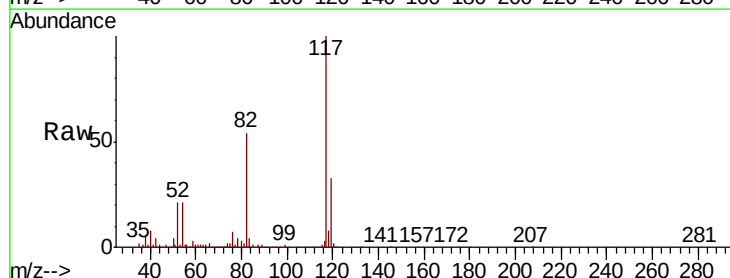
Tgt Ion: 117 Resp: 239985

Ion Ratio Lower Upper

117 100

82 54.1 45.6 68.4

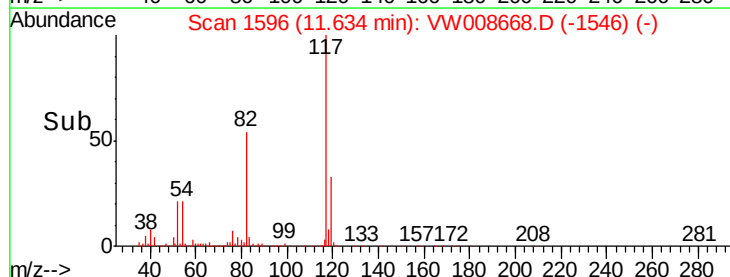
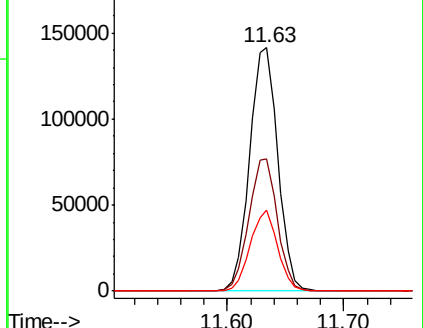
119 33.1 25.7 38.5

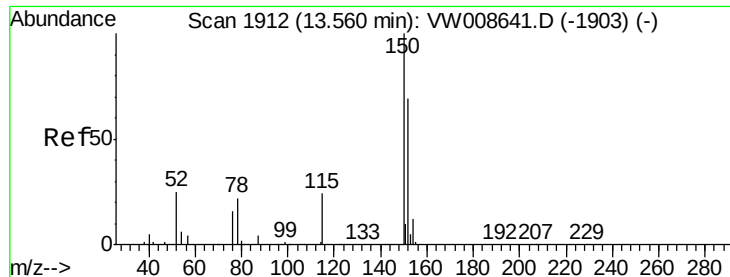


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW



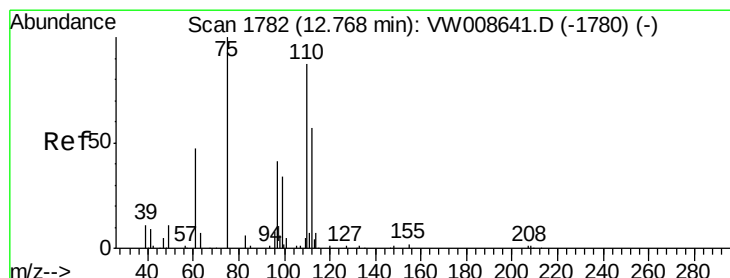
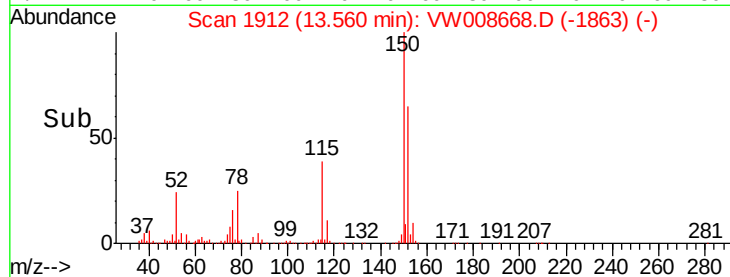
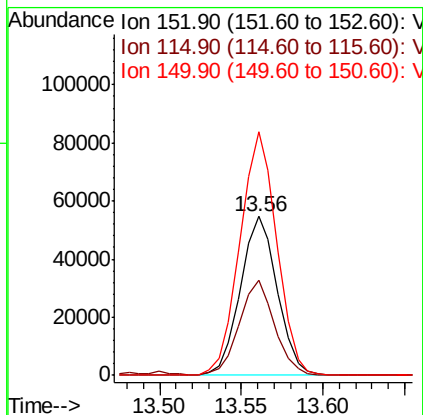
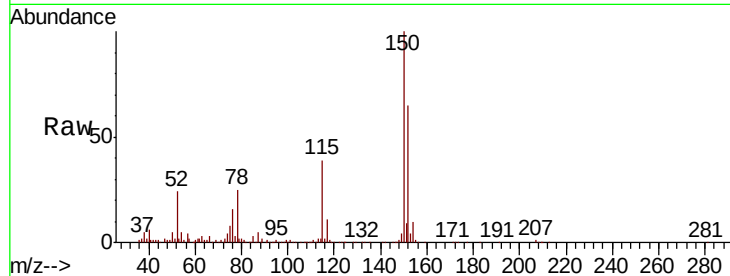


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008668.D
Acq: 14 Feb 2019 16:07

Instrument :
MSVOA_W
ClientSampleId :
TP-1-214RE

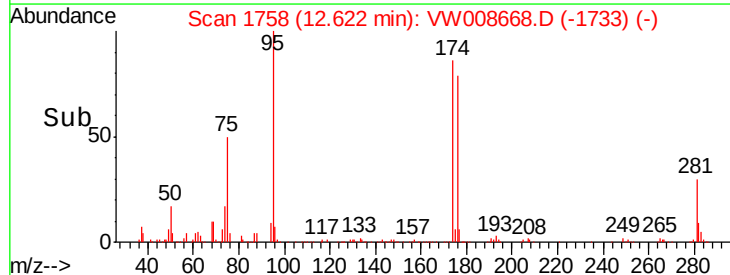
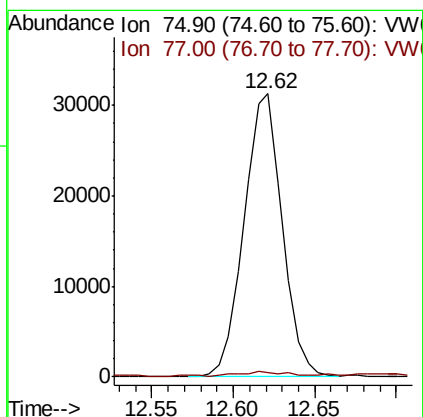
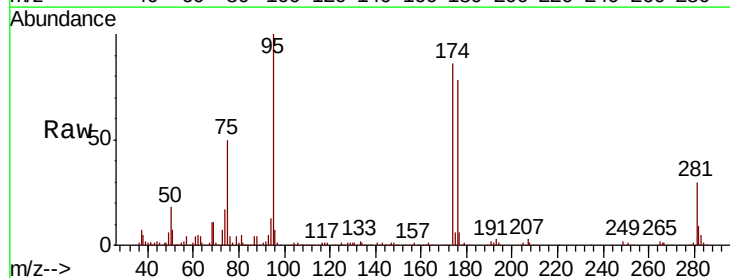
Tgt Ion:152 Resp: 86196
Ion Ratio Lower Upper
152 100
115 56.9 29.3 87.8
150 153.1 0.0 352.8

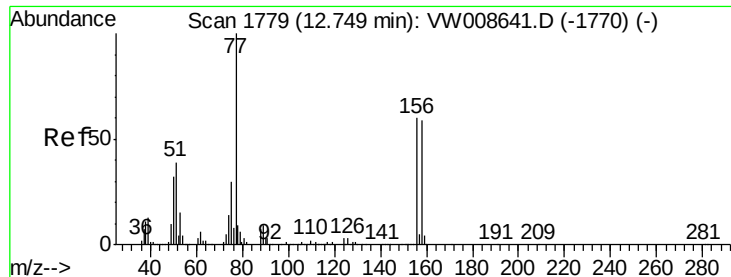


#76

1,2,3-Trichloropropane
Concen: 59.845 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW008668.D
Acq: 14 Feb 2019 16:07

Tgt Ion: 75 Resp: 50937
Ion Ratio Lower Upper
75 100
77 2.4 0.0 0.0#





#77

Bromobenzene

Concen: 2.897 ug/l

RT: 12.88 min Scan# 1800

Delta R.T. 0.13 min

Lab File: VW008668.D

Acq: 14 Feb 2019 16:07

Instrument :

MSVOA_W

ClientSampleId :

TP-1-214RE

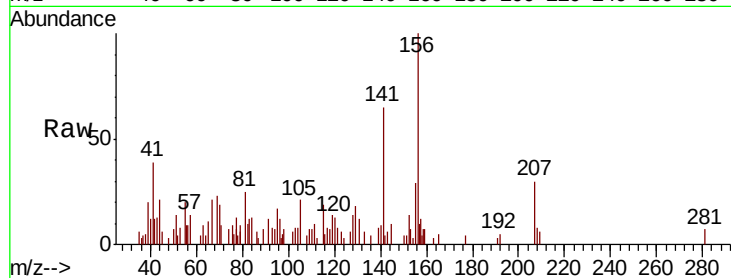
Tgt Ion:156 Resp: 4276

Ion Ratio Lower Upper

156 100

77 0.0 93.2 279.5#

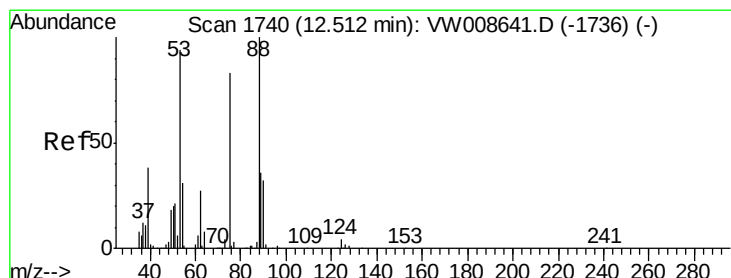
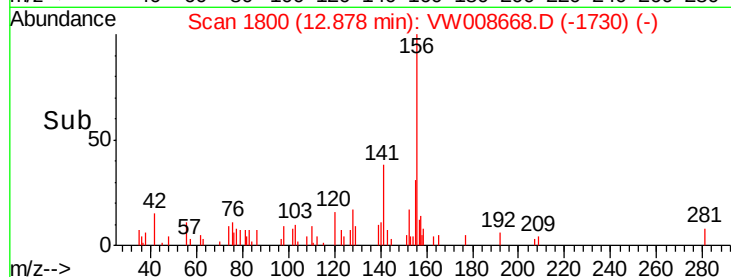
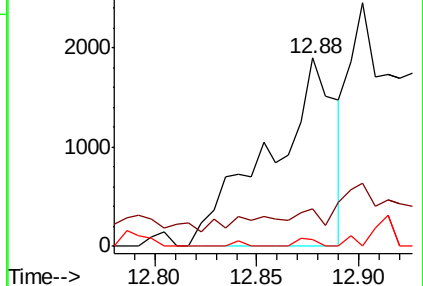
158 1.3 48.5 145.5#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 127.818 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008668.D

Acq: 14 Feb 2019 16:07

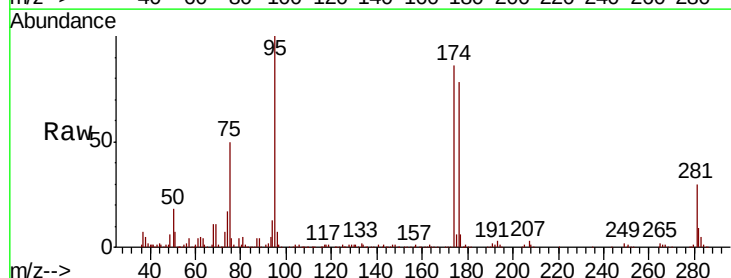
Tgt Ion: 75 Resp: 50937

Ion Ratio Lower Upper

75 100

53 0.8 87.4 131.0#

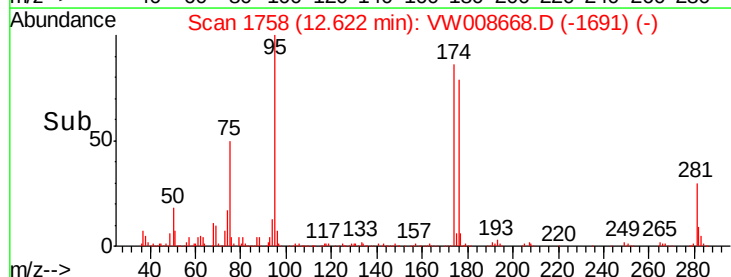
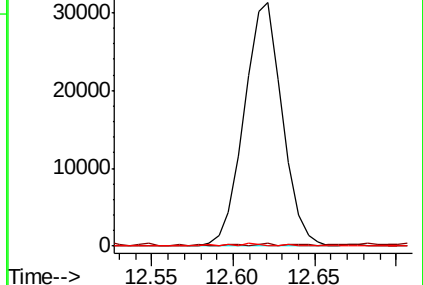
89 0.8 37.0 55.4#

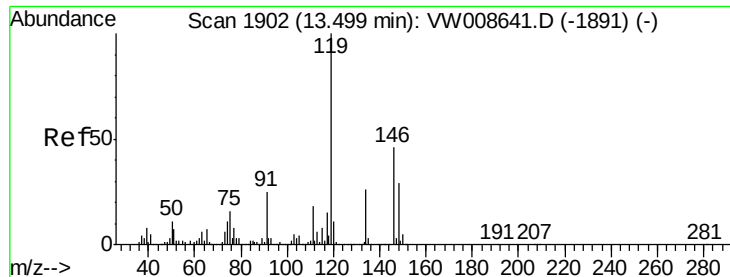


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

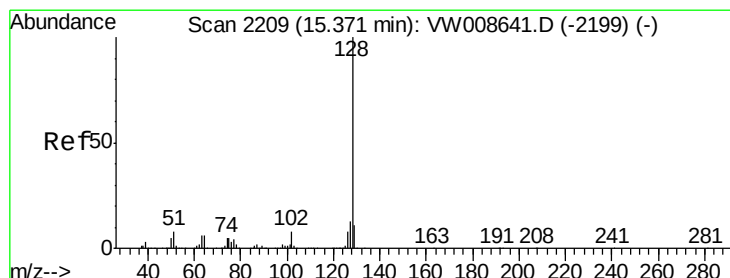
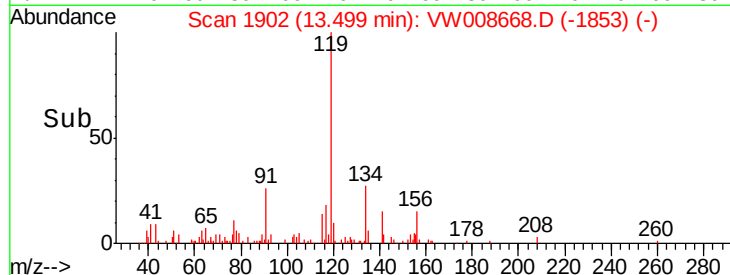
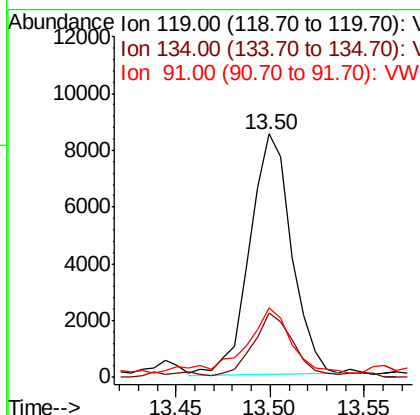
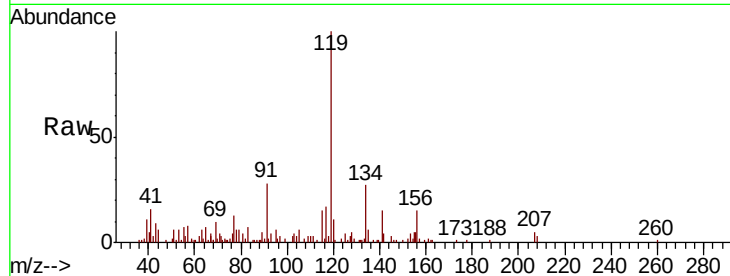




#86
p-Isopropyltoluene
Concen: 2.156 ug/l
RT: 13.50 min Scan# 1902
Delta R.T. 0.00 min
Lab File: VW008668.D
Acq: 14 Feb 2019 16:07

Instrument :
MSVOA_W
ClientSampleId :
TP-1-214RE

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.0	13.0	39.0
91	30.6	12.3	36.9



#95
Naphthalene
Concen: 6.841 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW008668.D
Acq: 14 Feb 2019 16:07

Tgt Ion	Ratio	Lower	Upper
128	100		
127	16.5	10.9	16.3#
129	13.5	8.7	13.1#

