

Data File : VW008598.D
Acq On : 11 Feb 2019 15:35
Operator : SY/VA
Sample : K1458-05
Misc : 5.09G/5ML/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SB-3

Quant Time: Feb 12 04:29:21 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
Quant Title : SW846 8260
QLast Update : Fri Jan 25 11:07:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	83811	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	129747	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	112842	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	46749	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	49551	60.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.36%	
35) Dibromofluoromethane	7.88	113	41438	54.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.24%	
50) Toluene-d8	10.32	98	149684	49.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.40%	
62) 4-Bromofluorobenzene	12.62	95	53425	45.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.38%	

Target Compounds

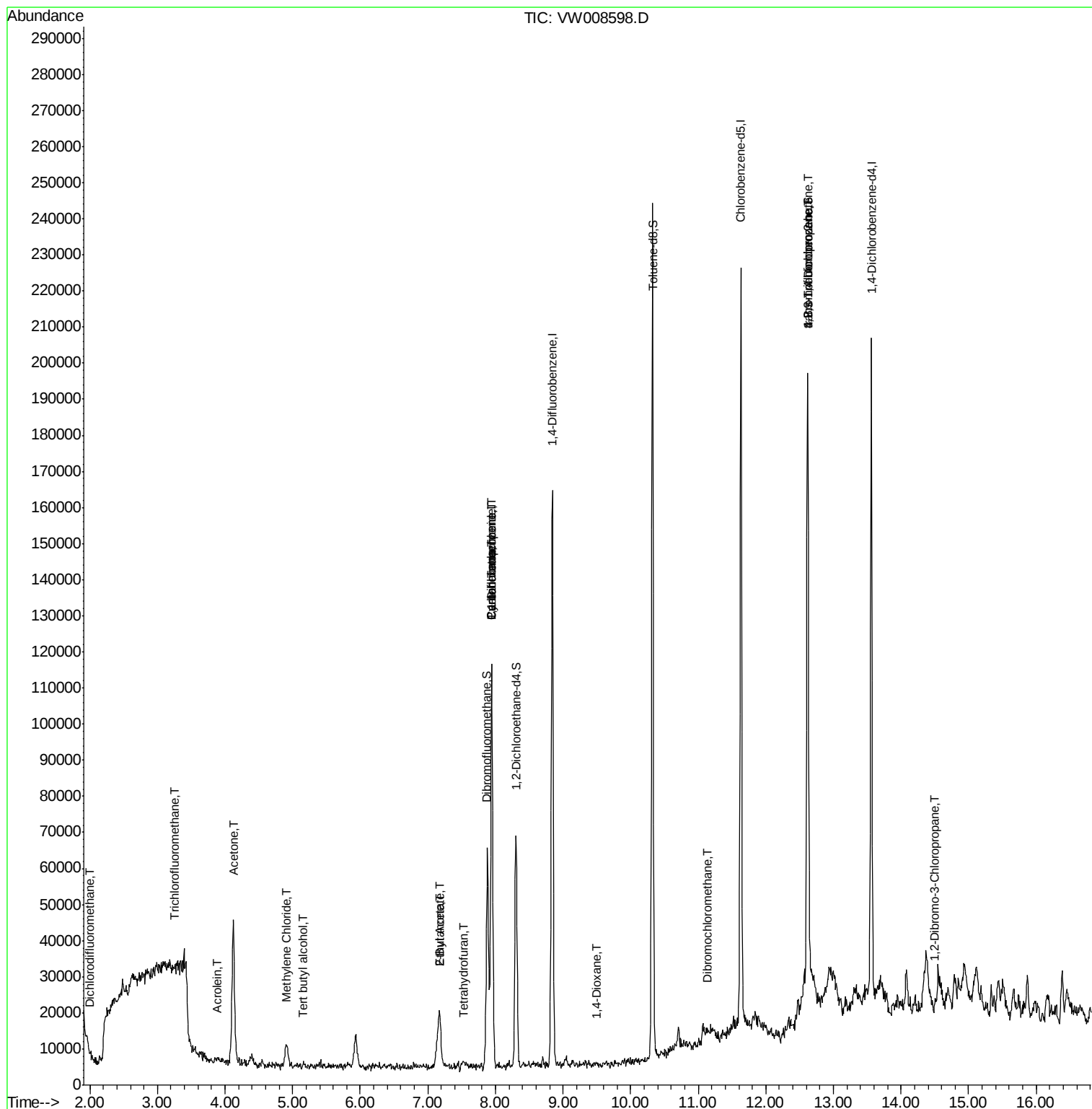
						Qvalue
2) Dichlorodifluoromethane	2.00	85	69	3.386	ug/l #	41
7) Trichlorofluoromethane	3.25	101	93	4.836	ug/l #	17
11) Tert butyl alcohol	5.14	59	465	7.015	ug/l #	63
13) Acrolein	3.89	56	563	13.650	ug/l #	61
16) Acetone	4.12	43	68371	369.775	ug/l	94
20) Methylene Chloride	4.92	84	3766	4.419	ug/l #	86
25) 2-Butanone	7.17	43	22863	89.023	ug/l	93
29) Tetrahydrofuran	7.53	42	292	1.794	ug/l #	83
31) Cyclohexane	7.95	56	2220	1.374	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	6540	5.336	ug/l #	46
37) Ethyl Acetate	7.17	43	22863	42.164	ug/l #	72
38) Carbon Tetrachloride	7.95	117	7716	6.256	ug/l #	20
49) 1,4-Dioxane	9.50	88	42	5.697	ug/l #	1
60) Dibromochloromethane	11.13	129	811	1.043	ug/l	94
76) 1,2,3-Trichloropropane	12.62	75	27875	68.582	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	27875	135.454	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.49	75	120	1.146	ug/l #	20

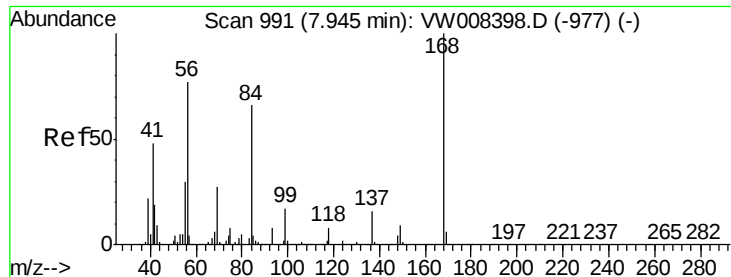
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008598.D

Acq: 11 Feb 2019 15:35

Instrument :

MSVOA_W

ClientSampled :

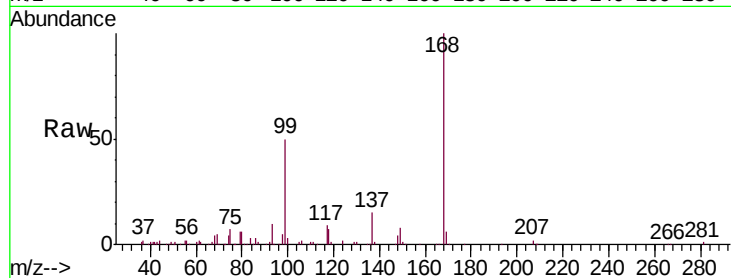
SB-3

Tgt Ion:168 Resp: 83811

Ion Ratio Lower Upper

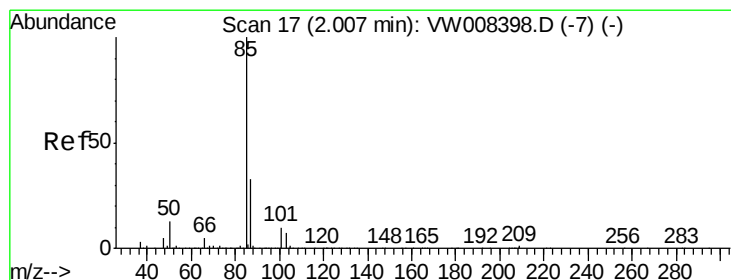
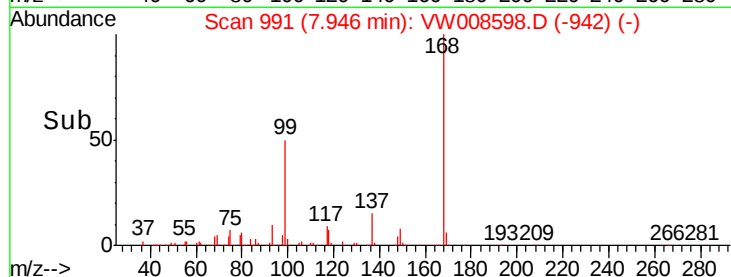
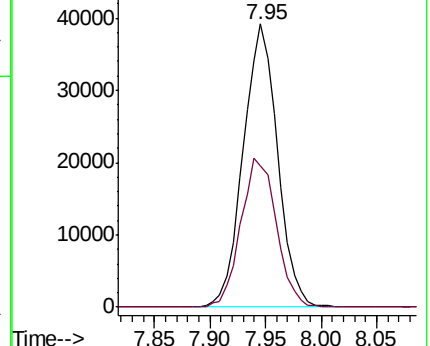
168 100

99 50.0 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 3.386 ug/l

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW008598.D

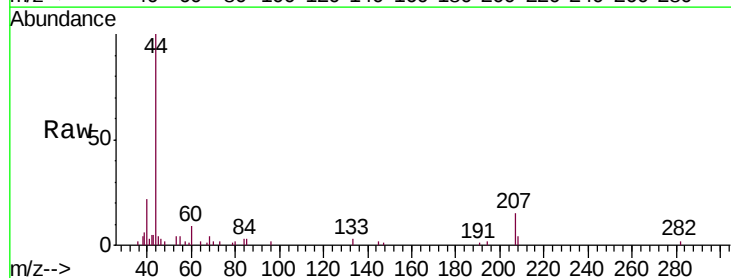
Acq: 11 Feb 2019 15:35

Tgt Ion: 85 Resp: 69

Ion Ratio Lower Upper

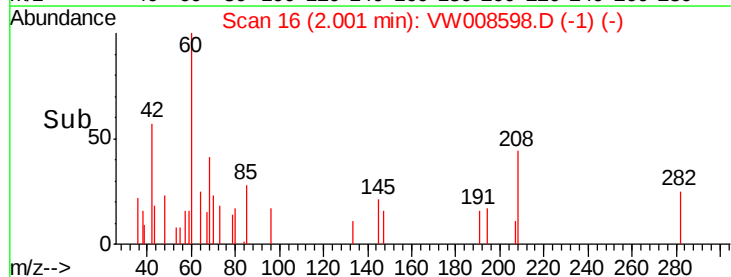
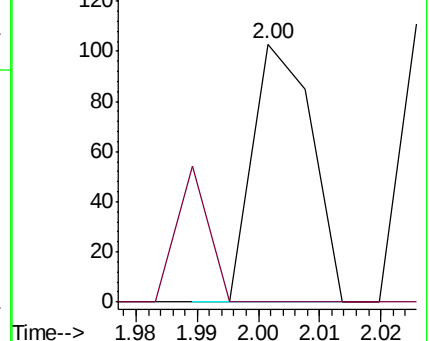
85 100

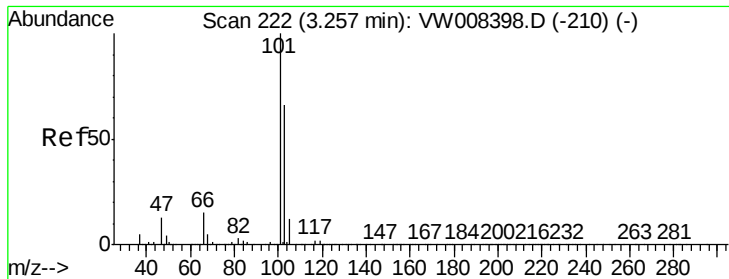
87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW



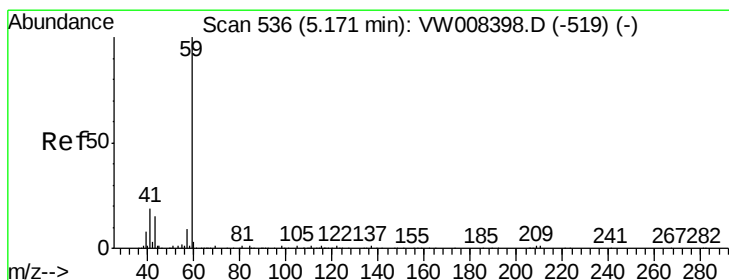
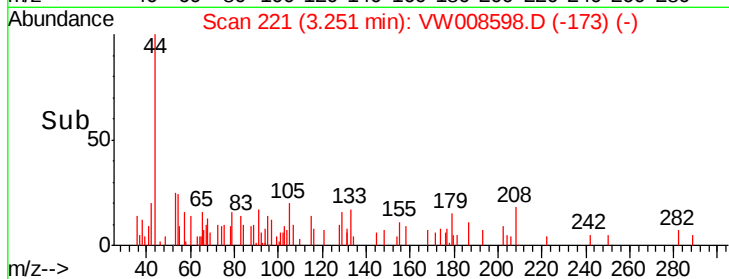
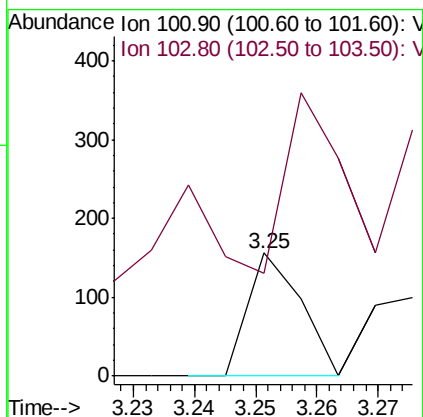
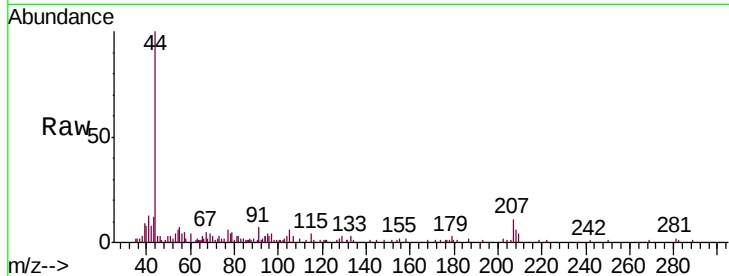


#7

Trichlorofluoromethane
 Concen: 4.836 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. -0.01 min
 Lab File: VW008598.D
 Acq: 11 Feb 2019 15:35

Instrument :
 MSVOA_W
 ClientSampleID :
 SB-3

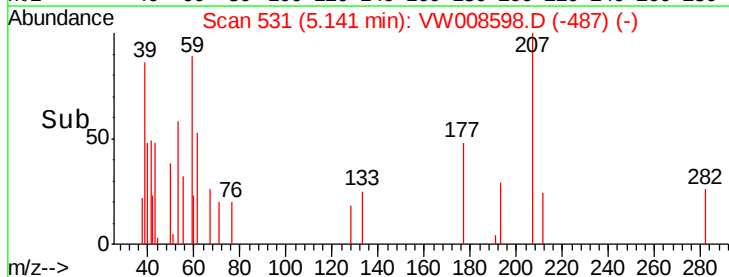
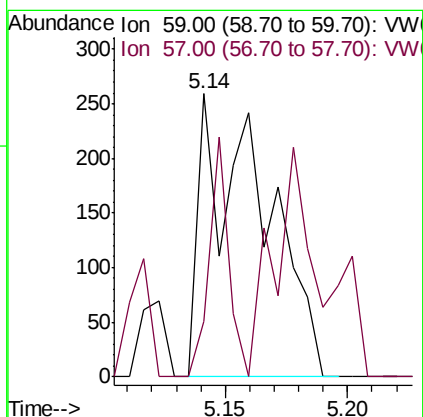
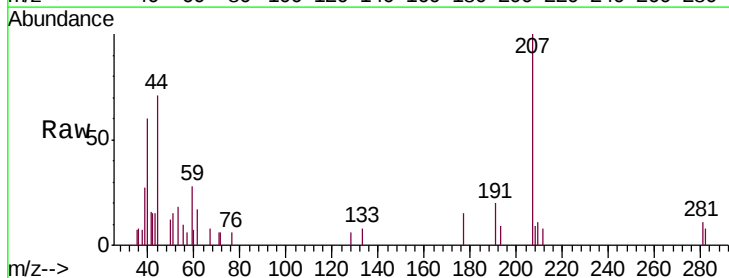
Tgt Ion: 101 Resp: 93
 Ion Ratio Lower Upper
 101 100
 103 0.0 52.5 78.7#

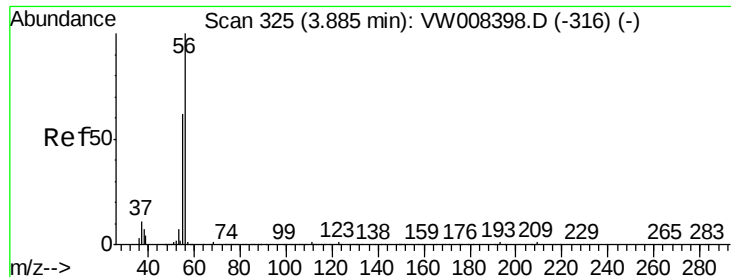


#11

Tert butyl alcohol
 Concen: 7.015 ug/l
 RT: 5.14 min Scan# 531
 Delta R.T. -0.03 min
 Lab File: VW008598.D
 Acq: 11 Feb 2019 15:35

Tgt Ion: 59 Resp: 465
 Ion Ratio Lower Upper
 59 100
 57 25.8 9.3 13.9#





#13

Acrolein

Concen: 13.650 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.01 min

Lab File: VW008598.D

Acq: 11 Feb 2019 15:35

Instrument :

MSVOA_W

ClientSampleId :

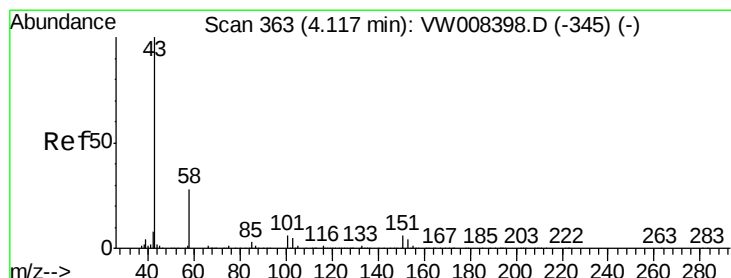
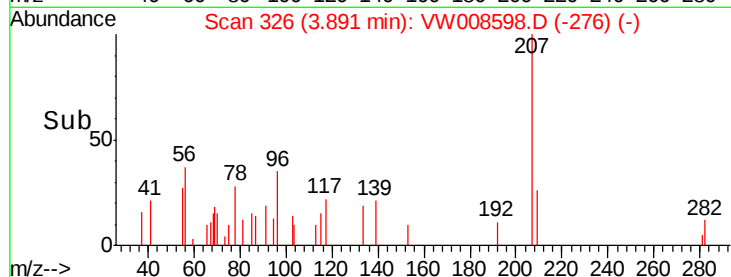
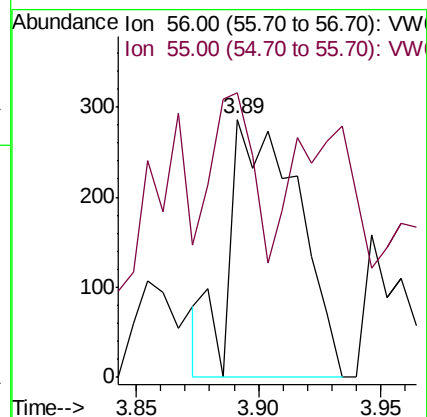
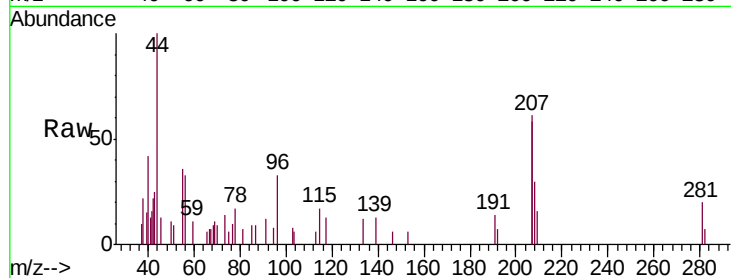
SB-3

Tgt Ion: 56 Resp: 563

Ion Ratio Lower Upper

56 100

55 38.9 56.7 85.1#



#16

Acetone

Concen: 369.775 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW008598.D

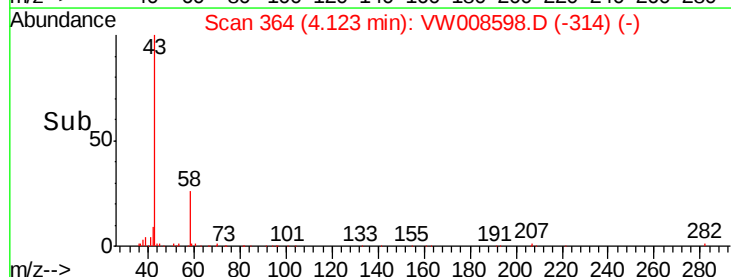
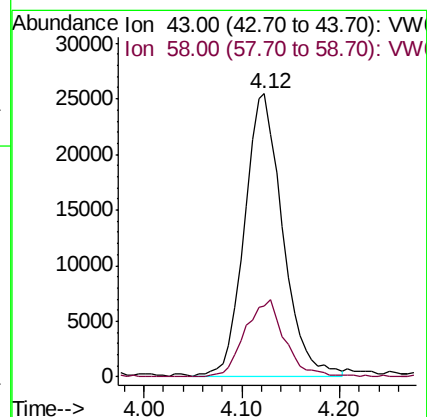
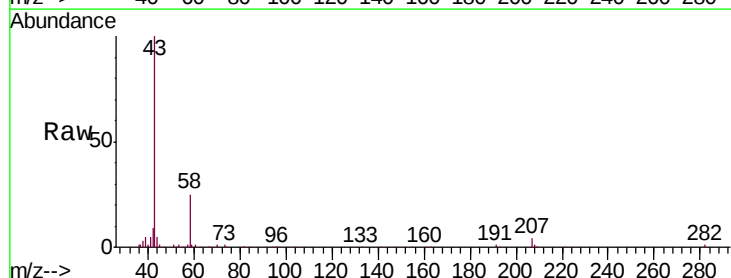
Acq: 11 Feb 2019 15:35

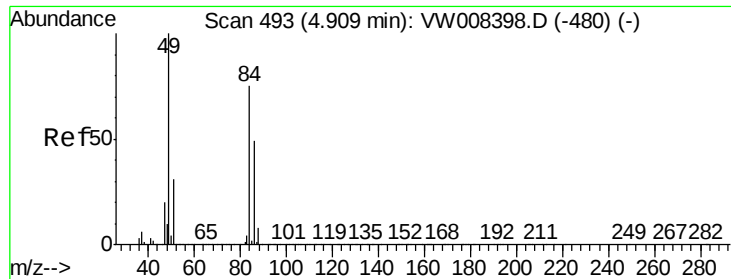
Tgt Ion: 43 Resp: 68371

Ion Ratio Lower Upper

43 100

58 25.4 22.6 34.0

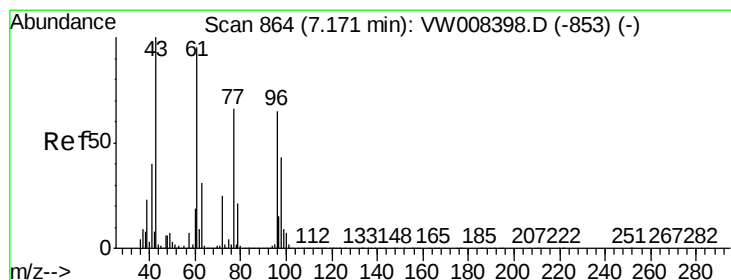
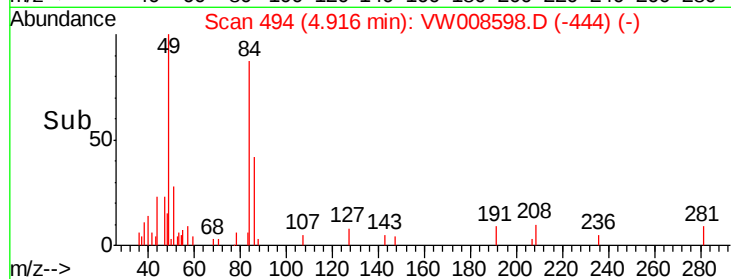
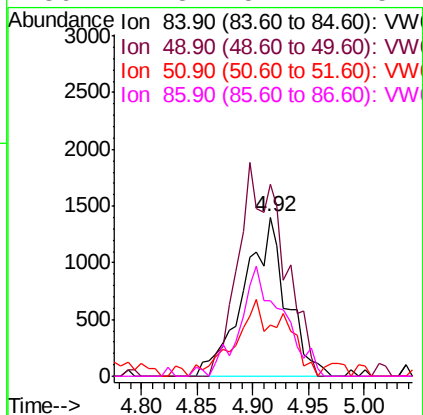
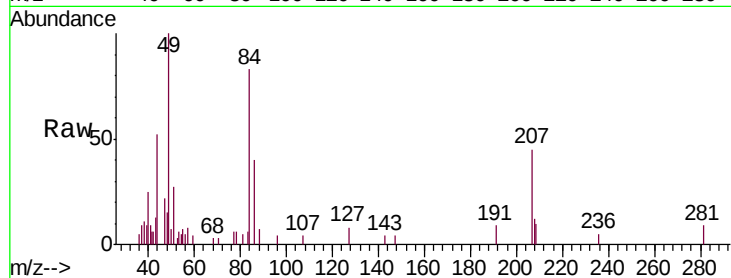




#20
Methylene Chloride
Concen: 4.419 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW008598.D
Acq: 11 Feb 2019 15:35

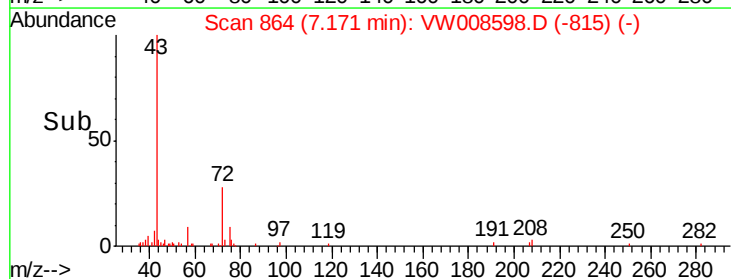
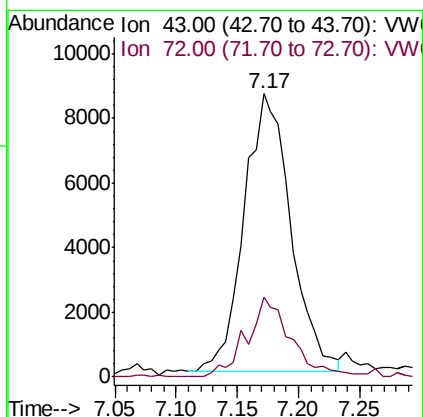
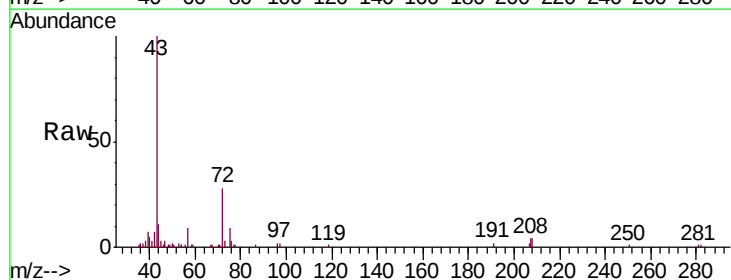
Instrument :
MSVOA_W
ClientSampleId :
SB-3

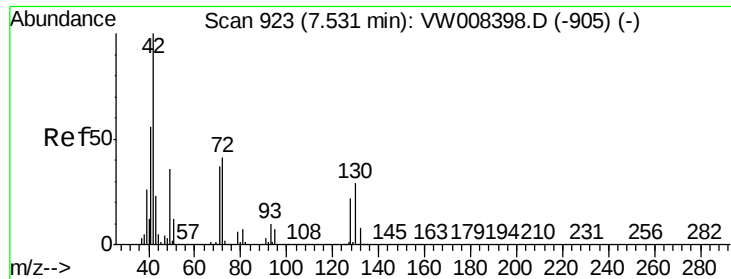
Tgt Ion: 84 Resp: 3766
Ion Ratio Lower Upper
84 100
49 120.9 106.8 160.2
51 32.5 32.9 49.3#
86 47.8 52.2 78.2#



#25
2-Butanone
Concen: 89.023 ug/l
RT: 7.17 min Scan# 864
Delta R.T. 0.00 min
Lab File: VW008598.D
Acq: 11 Feb 2019 15:35

Tgt Ion: 43 Resp: 22863
Ion Ratio Lower Upper
43 100
72 28.6 20.1 30.1

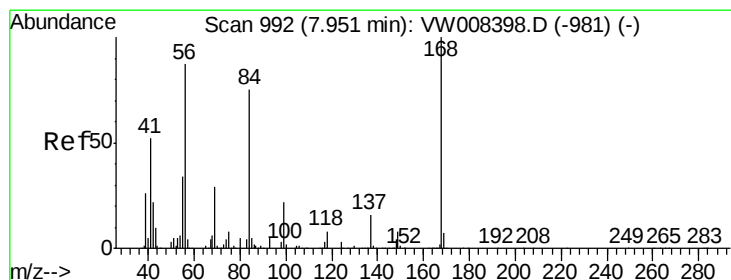
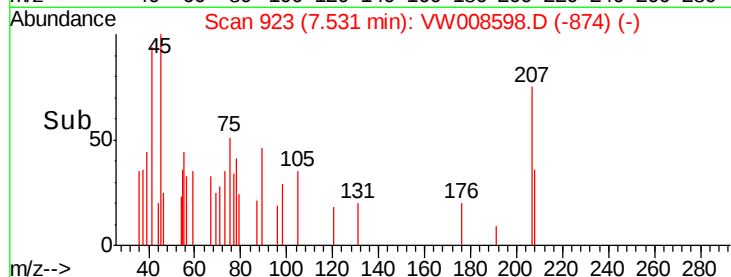
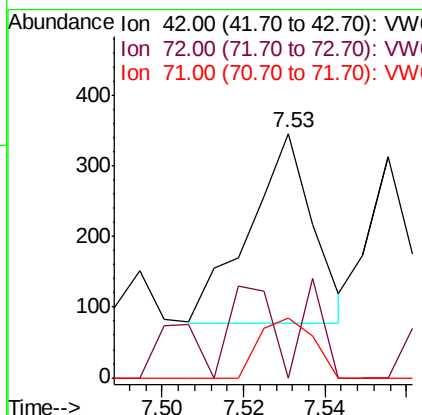
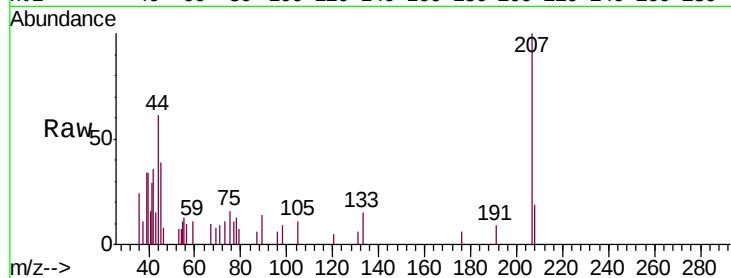




#29
Tetrahydrofuran
Concen: 1.794 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.00 min
Lab File: VW008598.D
Acq: 11 Feb 2019 15:35

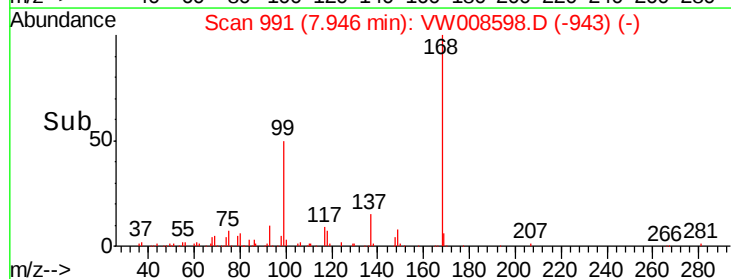
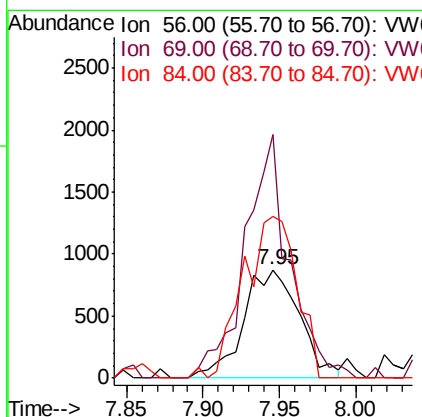
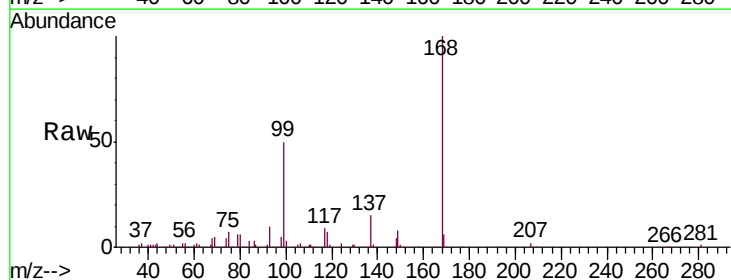
Instrument :
MSVOA_W
ClientSampled :
SB-3

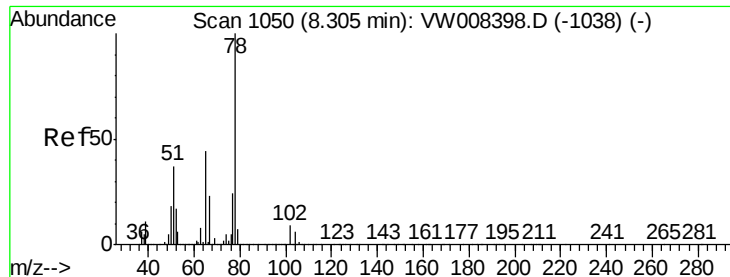
Tgt Ion: 42 Resp: 292
Ion Ratio Lower Upper
42 100
72 50.0 31.9 47.9#
71 26.7 29.9 44.9#



#31
Cyclohexane
Concen: 1.374 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW008598.D
Acq: 11 Feb 2019 15:35

Tgt Ion: 56 Resp: 2220
Ion Ratio Lower Upper
56 100
69 225.6 26.4 39.6#
84 149.3 69.1 103.7#

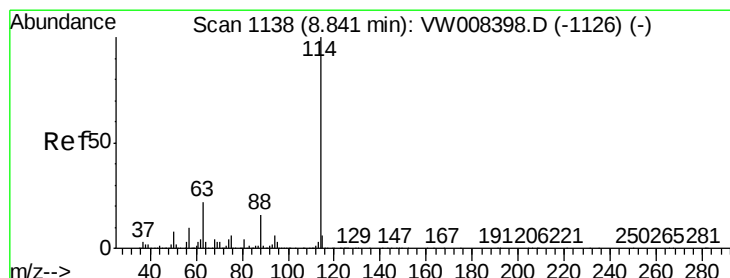
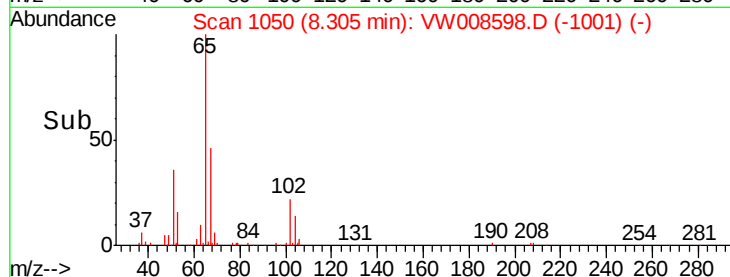
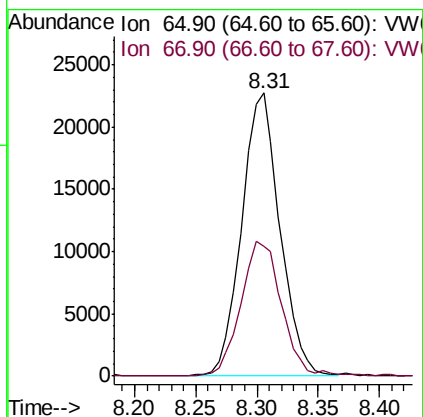
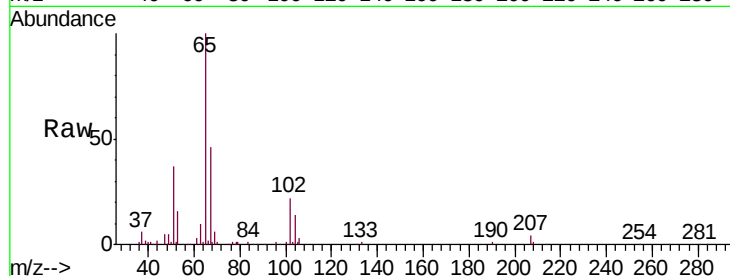




#33
 1,2-Dichloroethane-d4
 Concen: 60.181 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW008598.D
 Acq: 11 Feb 2019 15:35

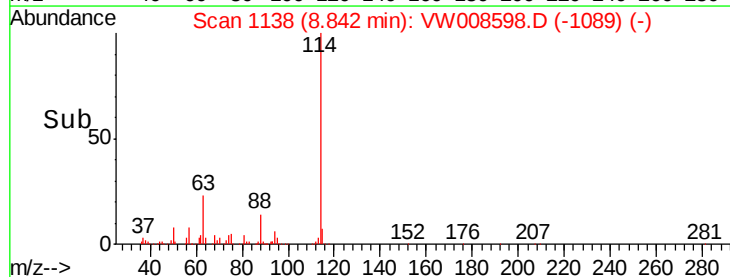
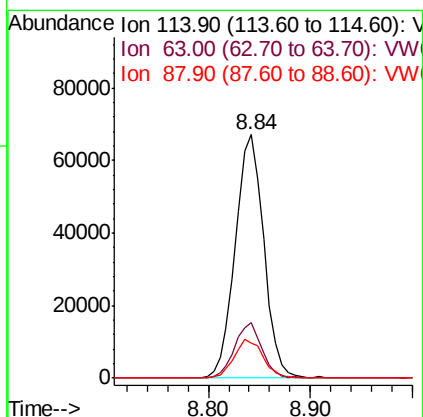
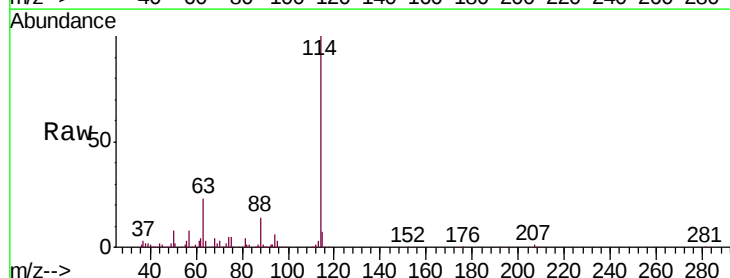
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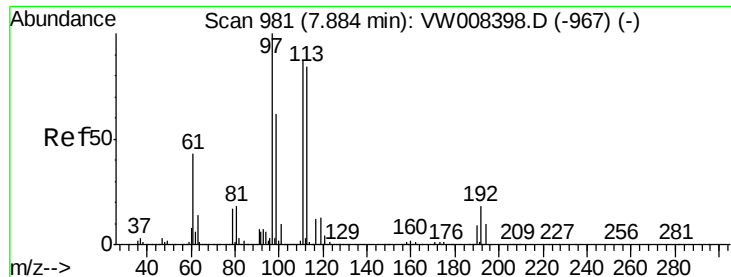
Tgt Ion: 65 Resp: 49551
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW008598.D
 Acq: 11 Feb 2019 15:35

Tgt Ion: 114 Resp: 129747
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 43.6
 88 14.3 0.0 31.8

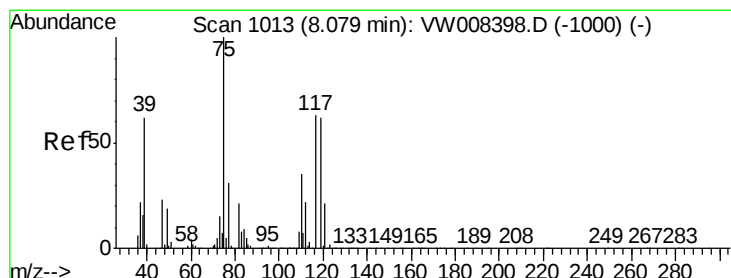
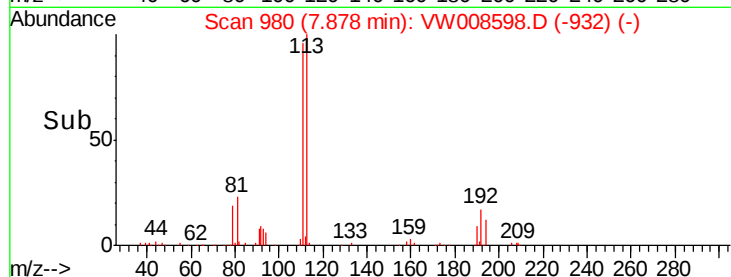
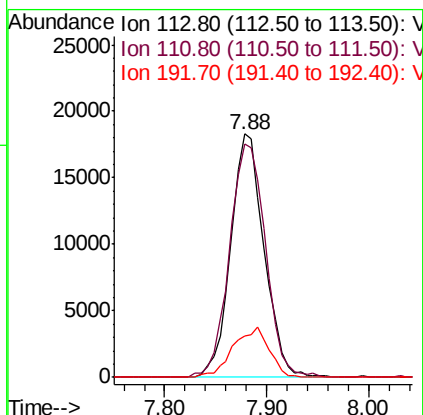
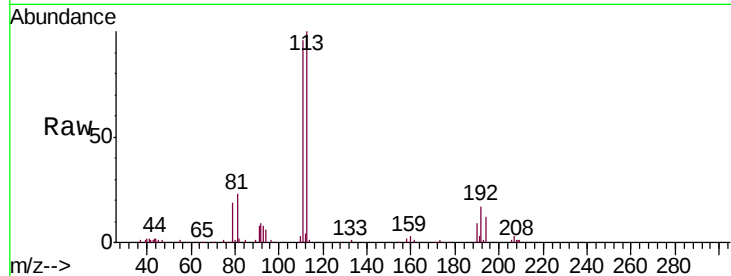




#35
Dibromofluoromethane
Concen: 54.619 ug/l
RT: 7.88 min Scan# 980
Delta R.T. -0.01 min
Lab File: VW008598.D
Acq: 11 Feb 2019 15:35

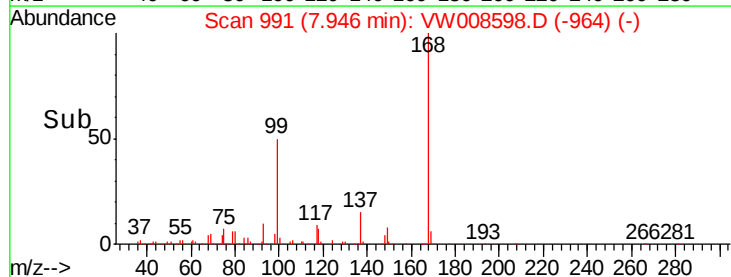
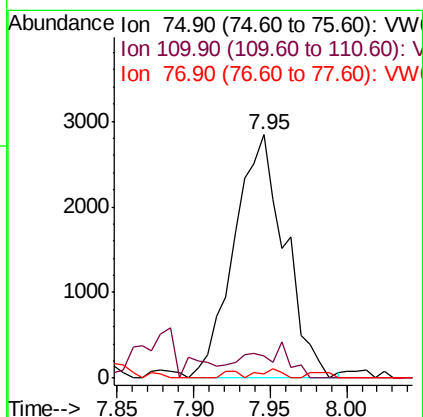
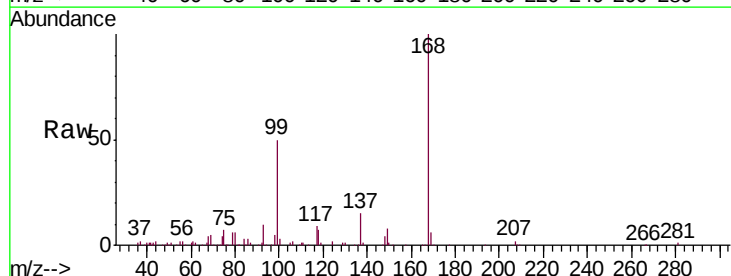
Instrument :
MSVOA_W
ClientSampleId :
SB-3

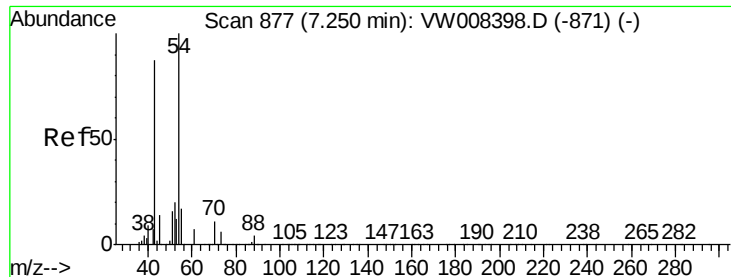
Tgt Ion: 113 Resp: 41438
Ion Ratio Lower Upper
113 100
111 103.6 81.0 121.4
192 22.2 16.8 25.2



#36
1,1-Dichloropropene
Concen: 5.336 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.13 min
Lab File: VW008598.D
Acq: 11 Feb 2019 15:35

Tgt Ion: 75 Resp: 6540
Ion Ratio Lower Upper
75 100
110 3.0 17.3 52.0#
77 1.6 24.7 37.1#

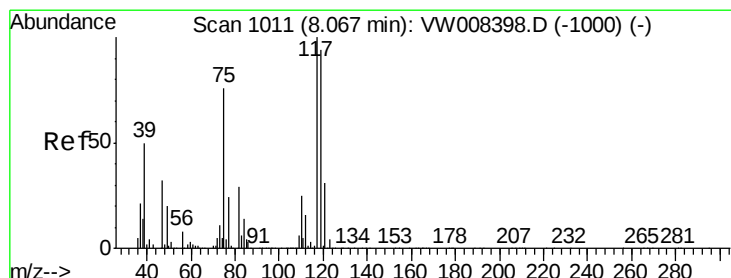
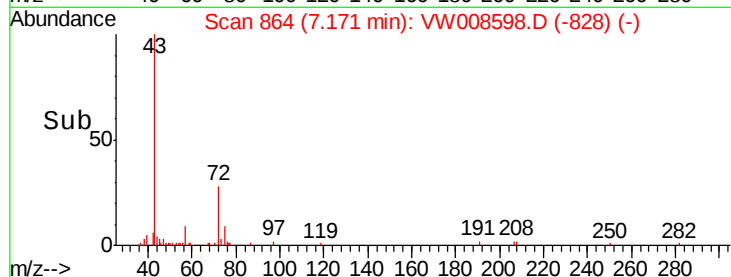
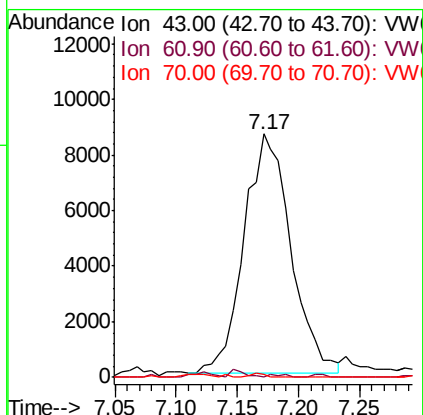
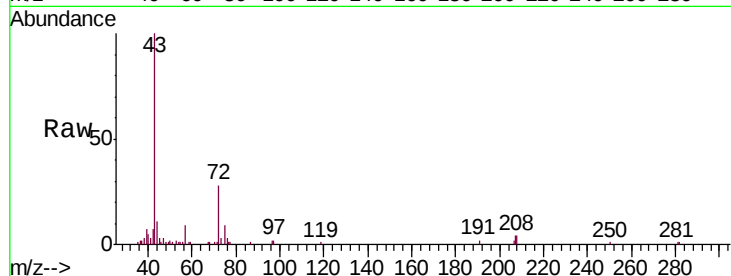




#37
Ethyl Acetate
Concen: 42.164 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.08 min
Lab File: VW008598.D
Acq: 11 Feb 2019 15:35

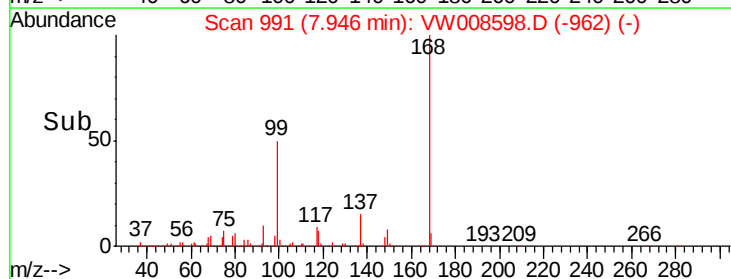
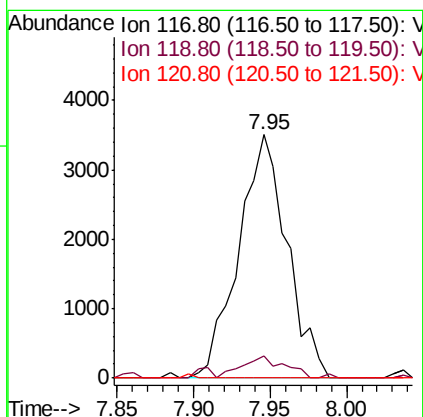
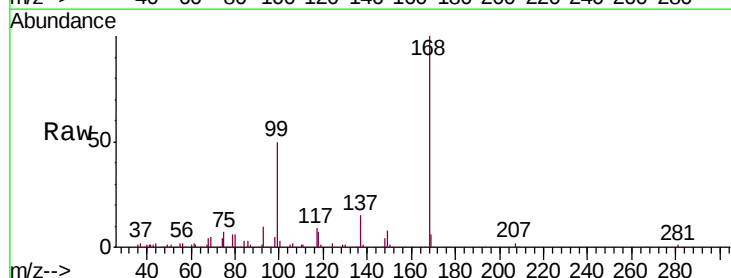
Instrument :
MSVOA_W
ClientSampleId :
SB-3

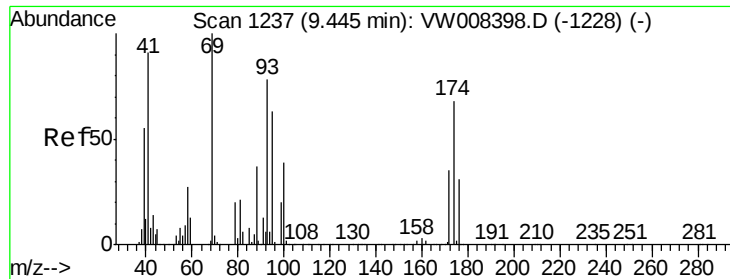
Tgt Ion: 43 Resp: 22863
Ion Ratio Lower Upper
43 100
61 0.5 10.1 15.1#
70 0.5 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 6.256 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW008598.D
Acq: 11 Feb 2019 15:35

Tgt Ion: 117 Resp: 7716
Ion Ratio Lower Upper
117 100
119 8.9 75.0 112.4#
121 0.0 24.9 37.3#

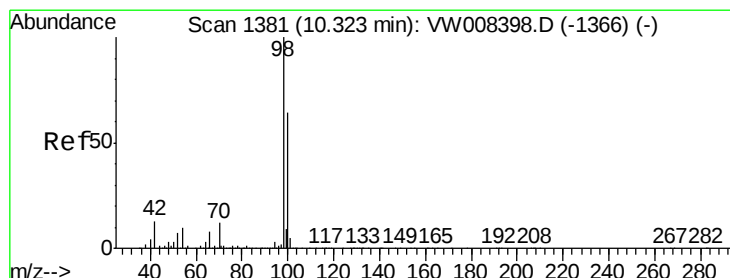
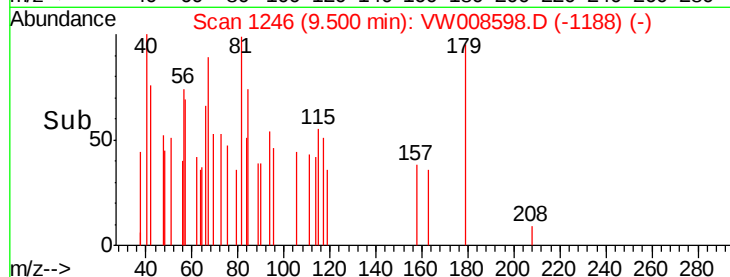
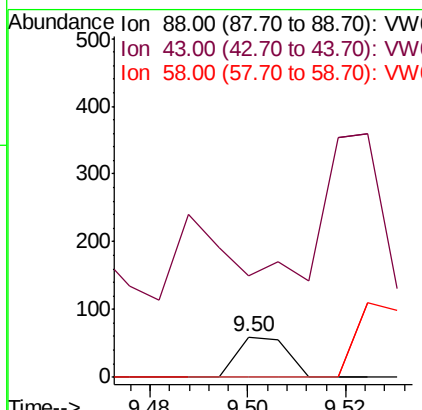
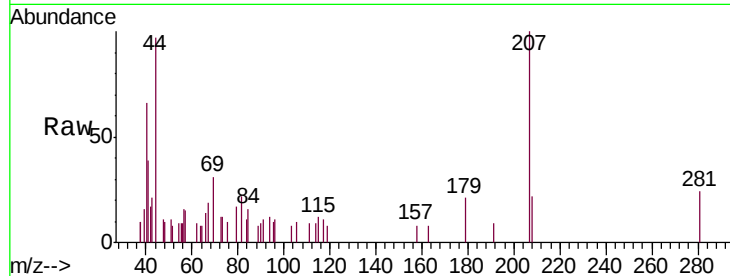




#49
1,4-Dioxane
Concen: 5.697 ug/l
RT: 9.50 min Scan# 1246
Delta R.T. 0.06 min
Lab File: VW008598.D
Acq: 11 Feb 2019 15:35

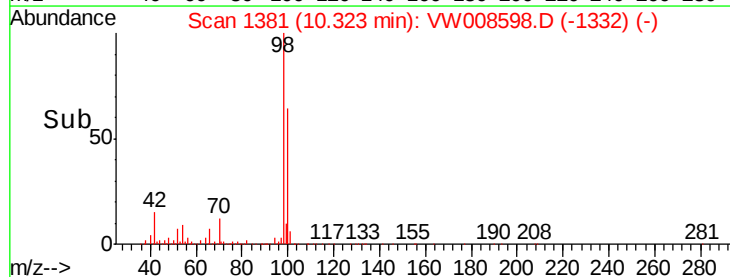
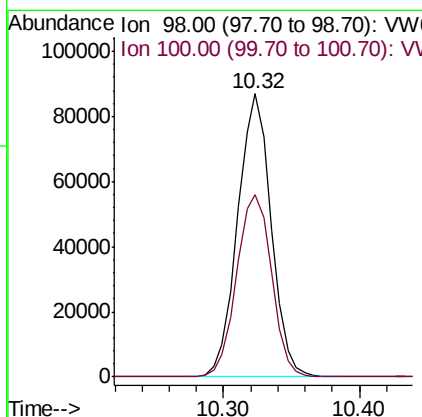
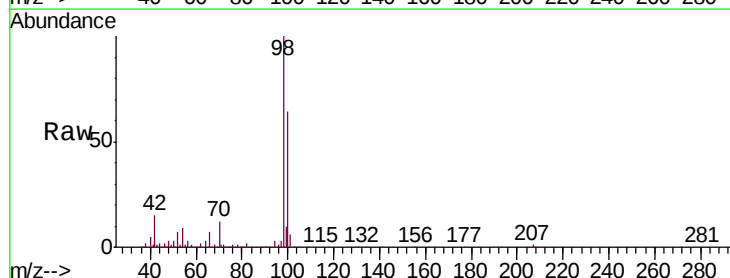
Instrument :
MSVOA_W
ClientSampled :
SB-3

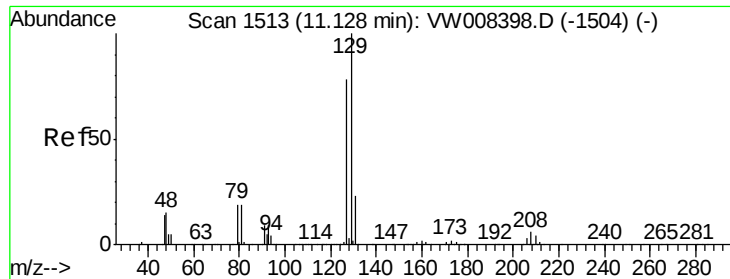
Tgt Ion: 88 Resp: 42
Ion Ratio Lower Upper
88 100
43 216.7 29.0 43.4#
58 0.0 56.4 84.6#



#50
Toluene-d8
Concen: 49.201 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008598.D
Acq: 11 Feb 2019 15:35

Tgt Ion: 98 Resp: 149684
Ion Ratio Lower Upper
98 100
100 67.2 52.6 78.8





#60

Dibromochloromethane

Concen: 1.043 ug/l

RT: 11.13 min Scan# 1514

Delta R.T. 0.01 min

Lab File: VW008598.D

Acq: 11 Feb 2019 15:35

Instrument :

MSVOA_W

ClientSampled :

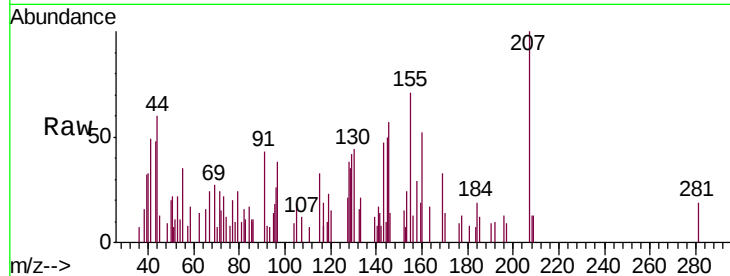
SB-3

Tgt Ion: 129 Resp: 811

Ion Ratio Lower Upper

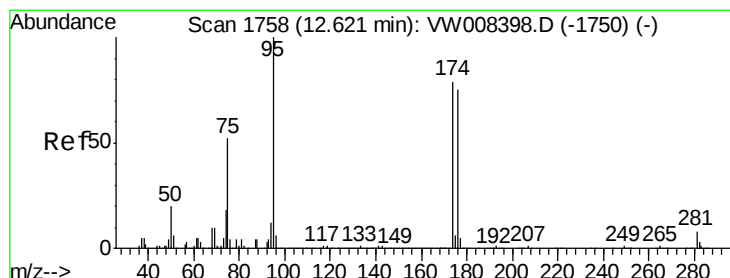
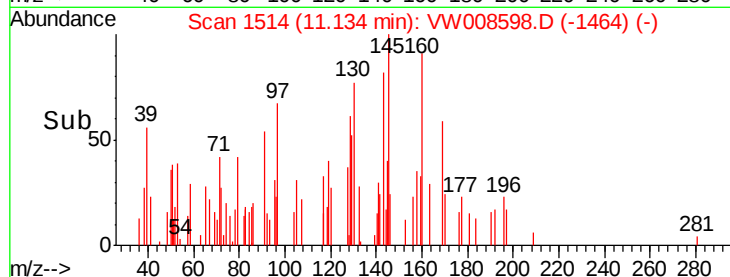
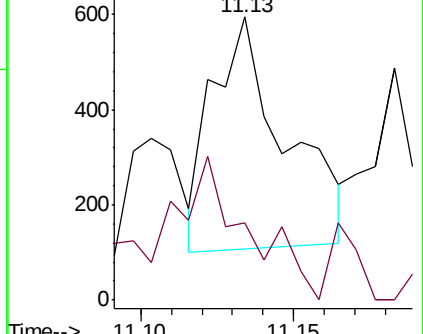
129 100

127 72.9 39.1 117.2



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 45.685 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW008598.D

Acq: 11 Feb 2019 15:35

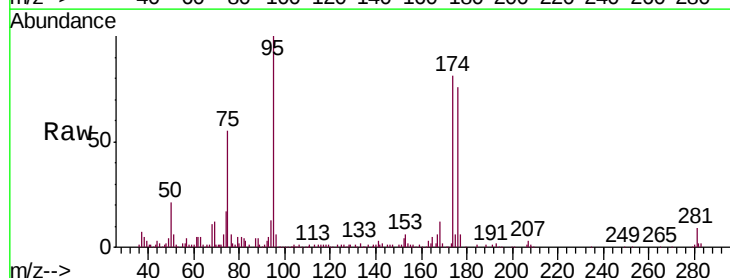
Tgt Ion: 95 Resp: 53425

Ion Ratio Lower Upper

95 100

174 79.7 0.0 157.6

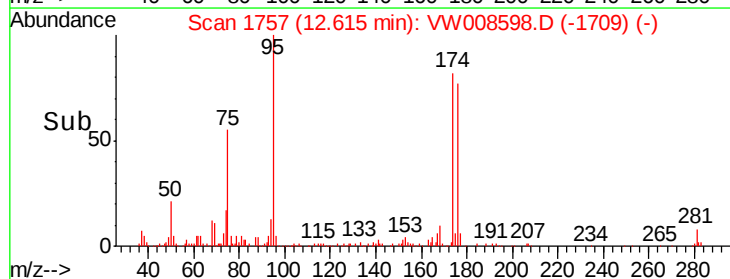
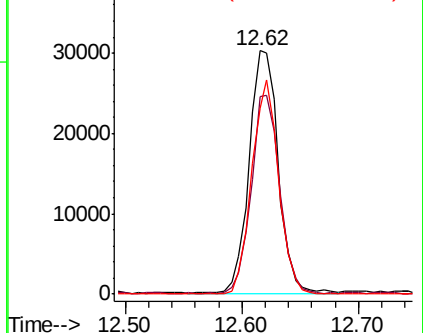
176 80.1 0.0 151.8

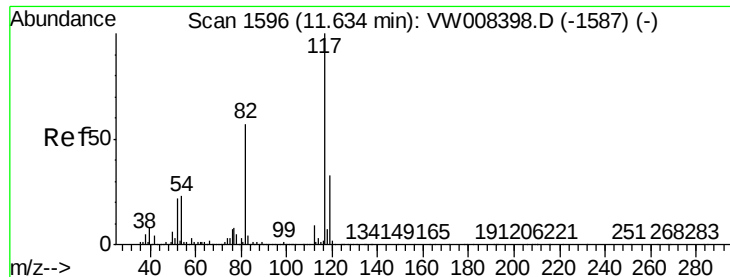


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008598.D

Acq: 11 Feb 2019 15:35

Instrument :

MSVOA_W

ClientSampleId :

SB-3

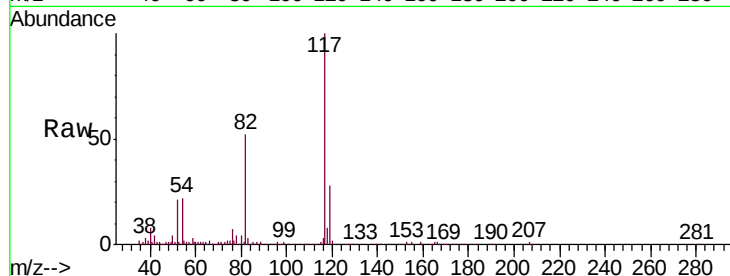
Tgt Ion:117 Resp: 112842

Ion Ratio Lower Upper

117 100

82 52.0 45.4 68.0

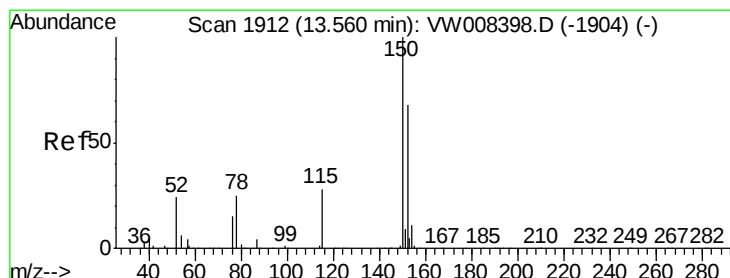
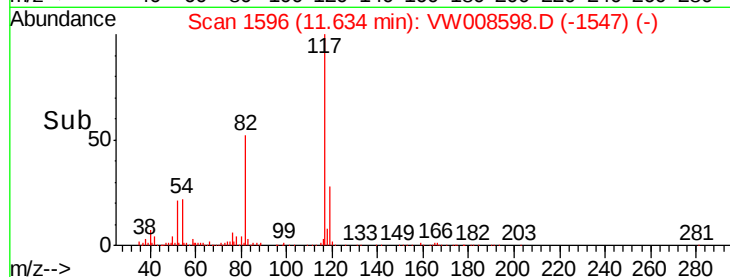
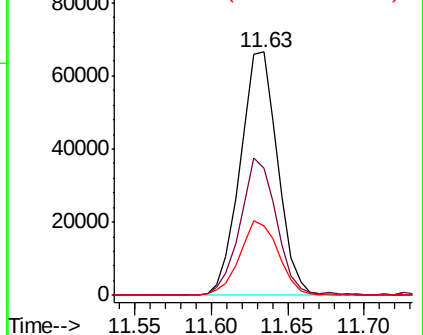
119 28.3 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): 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: VW008598.D

Acq: 11 Feb 2019 15:35

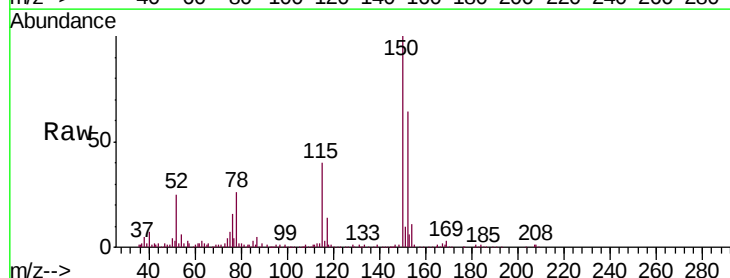
Tgt Ion:152 Resp: 46749

Ion Ratio Lower Upper

152 100

115 57.5 29.9 89.7

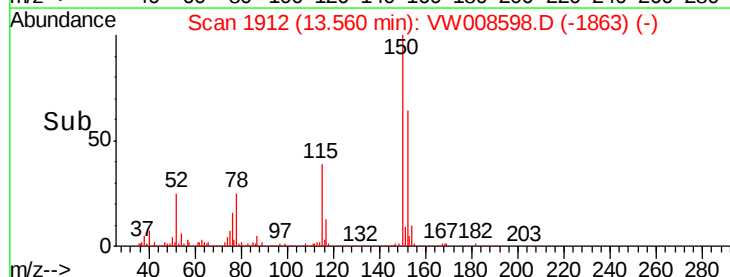
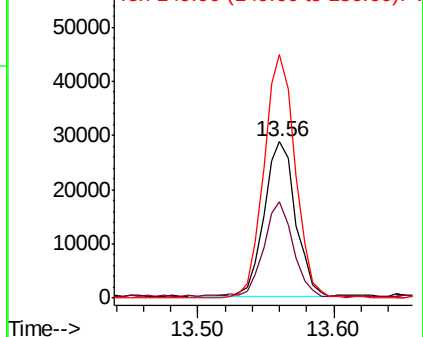
150 155.1 0.0 351.4

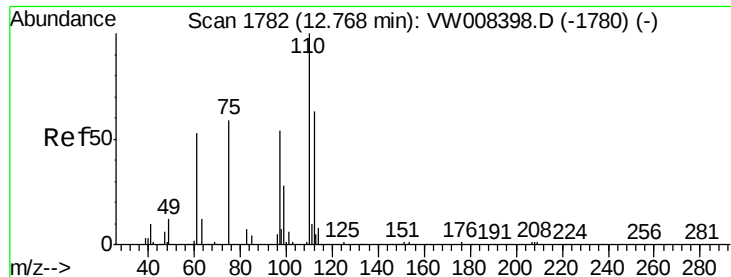


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 68.582 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008598.D

Acq: 11 Feb 2019 15:35

Instrument :

MSVOA_W

ClientSampleId :

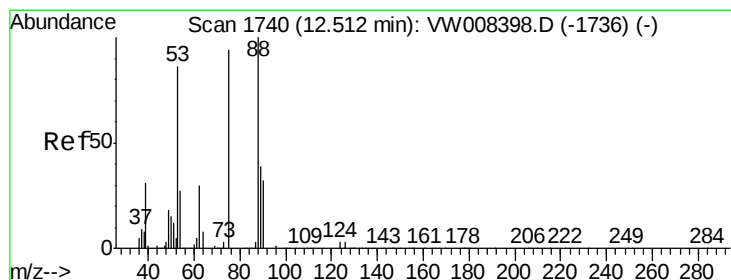
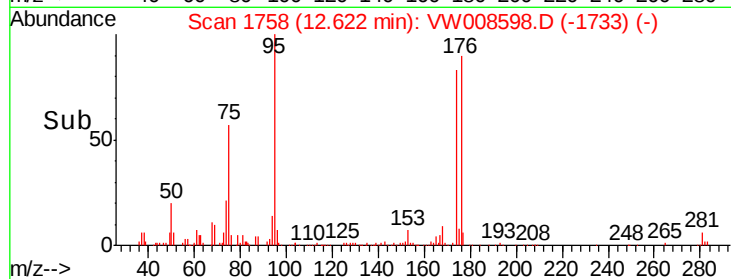
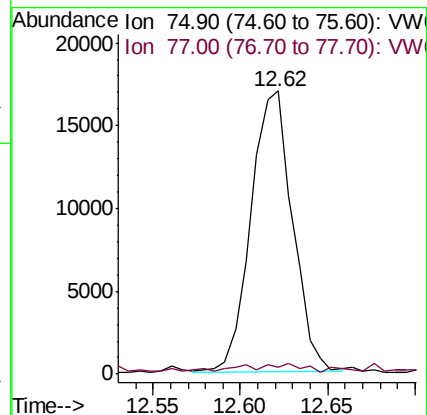
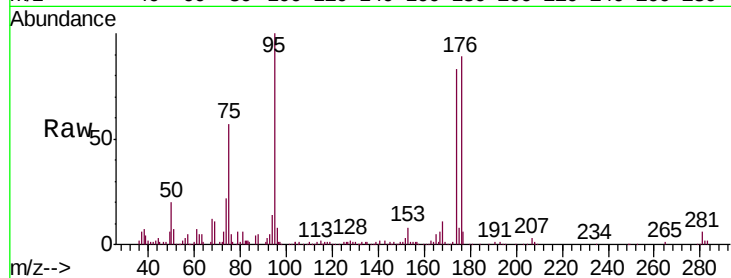
SB-3

Tgt Ion: 75 Resp: 27875

Ion Ratio Lower Upper

75 100

77 2.4 180.7 542.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 135.454 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008598.D

Acq: 11 Feb 2019 15:35

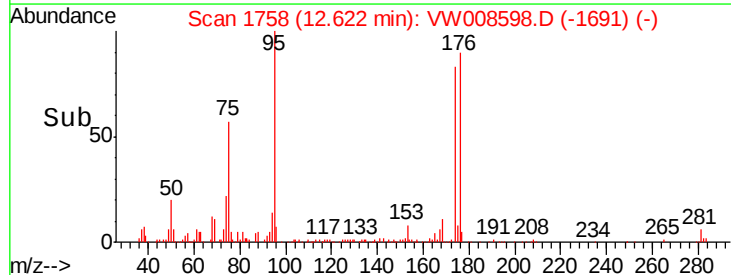
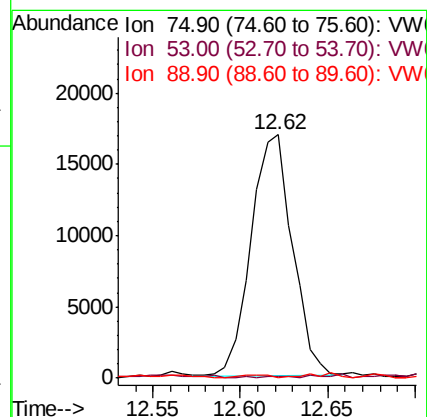
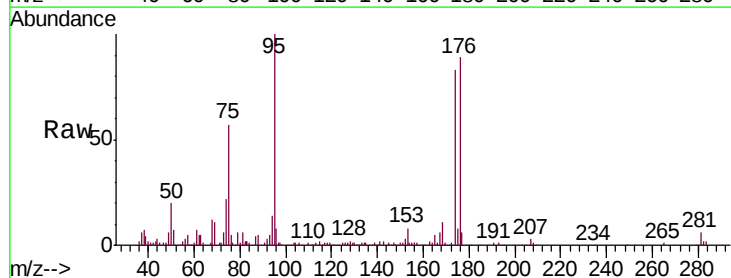
Tgt Ion: 75 Resp: 27875

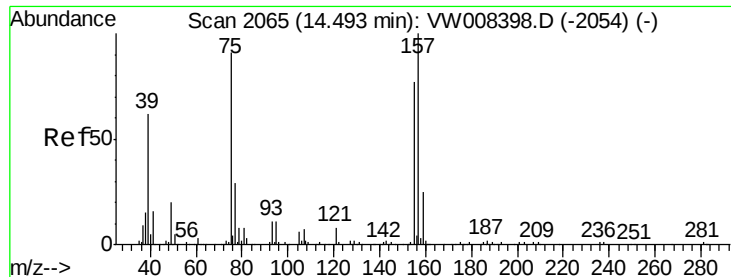
Ion Ratio Lower Upper

75 100

53 0.7 76.0 114.0#

89 1.0 35.4 53.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.146 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. -0.01 min

Lab File: VW008598.D

Acq: 11 Feb 2019 15:35

Instrument :

MSVOA_W

ClientSampleId :

SB-3

Tgt Ion: 75 Resp: 120

Ion Ratio Lower Upper

75 100

155 0.0 42.7 128.1#

157 184.2 55.5 166.3#

