

Data File : VW012976.D
Acq On : 14 Sep 2019 01:42
Operator : SY/VA
Sample : K4719-15
Misc : 4.87G/5ML/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
T4-4(0)-HELLGATE

Quant Time: Sep 14 04:27:21 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 13 17:26:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	8786	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.84	114	10650	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	5833	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	839	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	3987	49.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.26%	
35) Dibromofluoromethane	7.88	113	3605	62.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.76%	
50) Toluene-d8	10.33	98	11055	48.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.78%	
62) 4-Bromofluorobenzene	12.62	95	1306	16.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	32.12%	

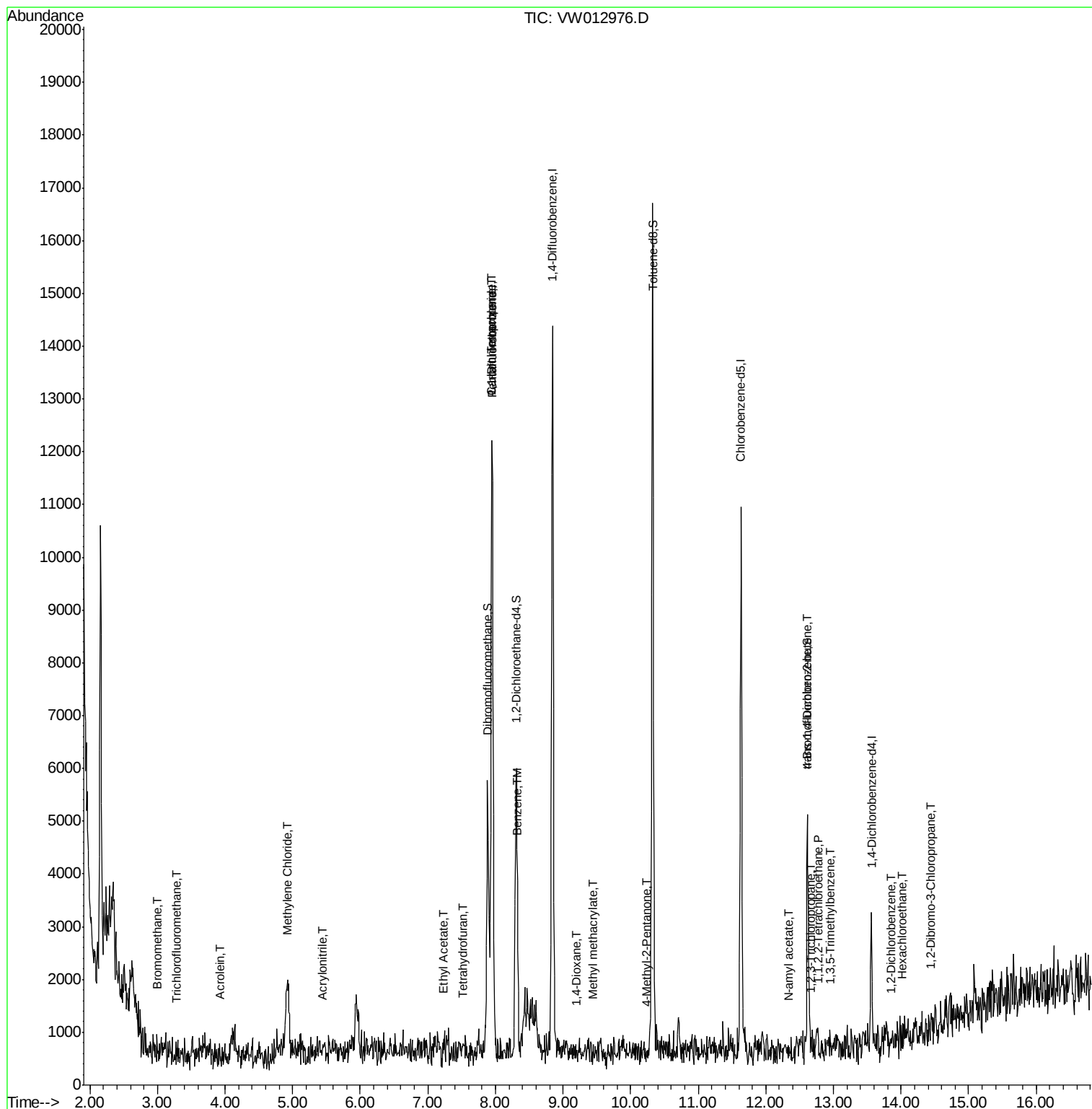
Target Compounds			Qvalue			
3) Chloromethane	2.20	50	45	Below Cal	#	41
5) Bromomethane	3.00	94	42	1.094	ug/l #	1
7) Trichlorofluoromethane	3.29	101	56	1.273	ug/l #	19
11) Tert butyl alcohol	5.17	59	47	Below Cal	#	72
13) Acrolein	3.93	56	54	2.078	ug/l #	15
15) Acrylonitrile	5.45	53	25	1.425	ug/l #	17
16) Acetone	4.11	43	262	Below Cal	#	85
20) Methylene Chloride	4.93	84	864	8.918	ug/l #	72
26) 2,2-Dichloropropane	7.17	77	20	Below Cal	#	55
29) Tetrahydrofuran	7.52	42	60	4.081	ug/l #	37
31) Cyclohexane	7.95	56	170	Below Cal	#	49
36) 1,1-Dichloropropene	7.94	75	743	8.731	ug/l #	46
37) Ethyl Acetate	7.23	43	106	2.347	ug/l #	71
38) Carbon Tetrachloride	7.95	117	909	10.423	ug/l #	11
40) Benzene	8.33	78	436	1.835	ug/l #	51
48) Methyl methacrylate	9.45	41	44	1.081	ug/l #	46
49) 1,4-Dioxane	9.21	88	44	86.831	ug/l #	16
51) 4-Methyl-2-Pentanone	10.23	43	97	2.166	ug/l #	38
74) N-amyl acetate	12.34	43	19	1.328	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	12.78	83	52	5.324	ug/l #	27
76) 1,2,3-Trichloropropane	12.67	75	33	4.490	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.95	105	68	1.445	ug/l #	29
81) trans-1,4-Dichloro-2-buten	12.62	75	779	240.462	ug/l #	9
90) Hexachloroethane	14.02	117	38	4.028	ug/l #	4
91) 1,2-Dichlorobenzene	13.86	146	33	1.480	ug/l #	24
92) 1,2-Dibromo-3-Chloropropan	14.45	75	26	14.543	ug/l #	1

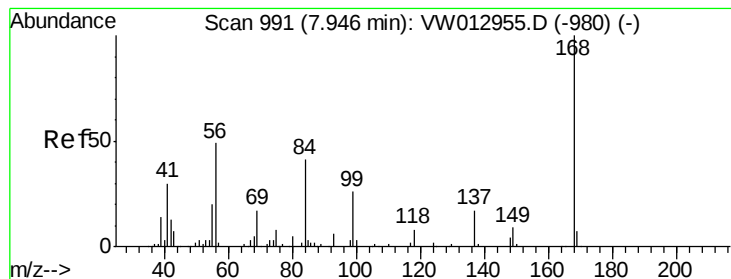
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW012976.D

Acq: 14 Sep 2019 01:42

Instrument :

MSVOA_W

ClientSampleId :

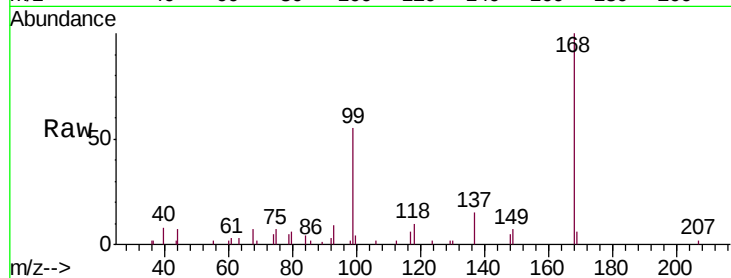
T4-4(0)-HELLGATE

Tgt Ion:168 Resp: 8786

Ion Ratio Lower Upper

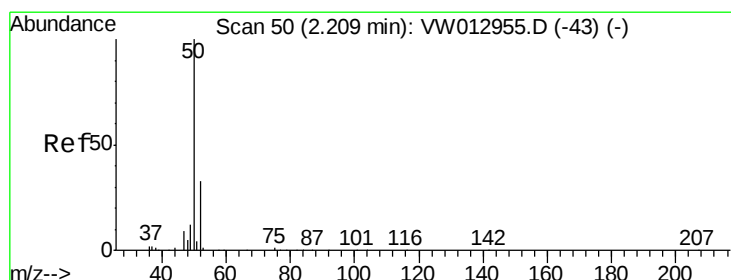
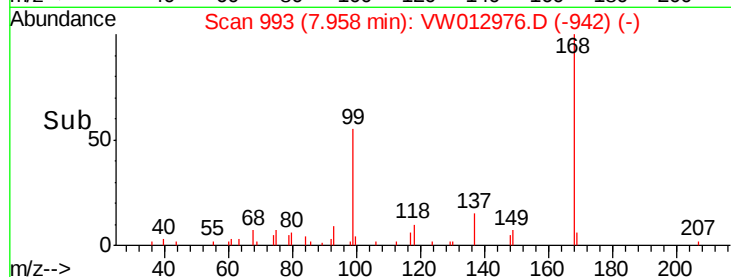
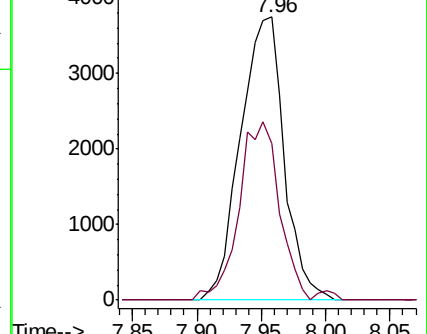
168 100

99 55.5 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW012976.D

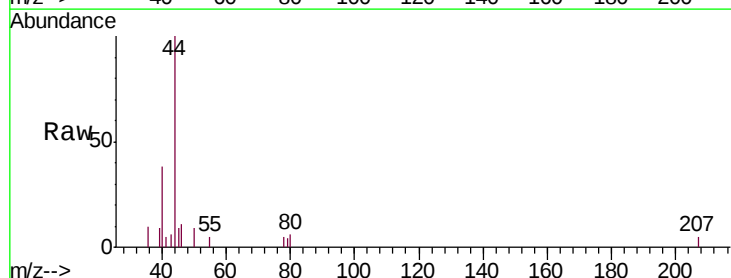
Acq: 14 Sep 2019 01:42

Tgt Ion: 50 Resp: 45

Ion Ratio Lower Upper

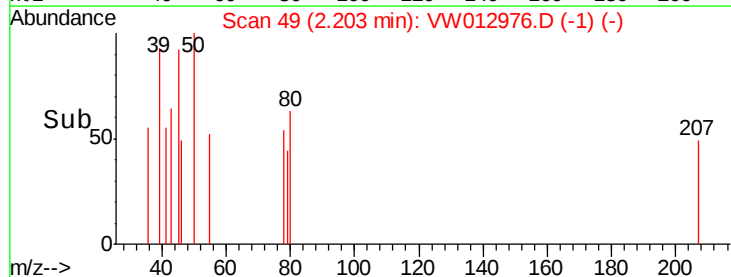
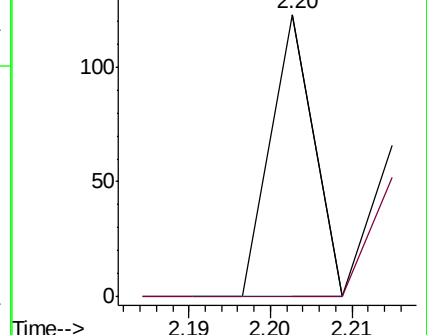
50 100

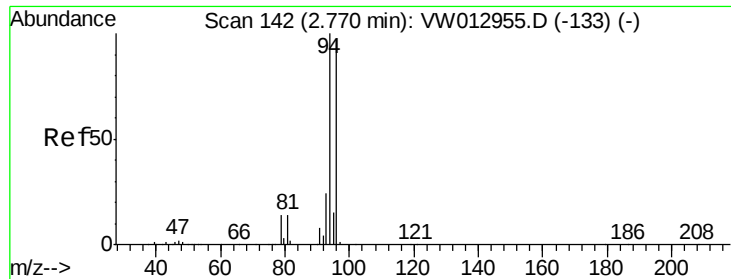
52 0.0 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#5

Bromomethane

Concen: 1.094 ug/l

RT: 3.00 min Scan# 179

Delta R.T. 0.23 min

Lab File: VW012976.D

Acq: 14 Sep 2019 01:42

Instrument :

MSVOA_W

ClientSampleId :

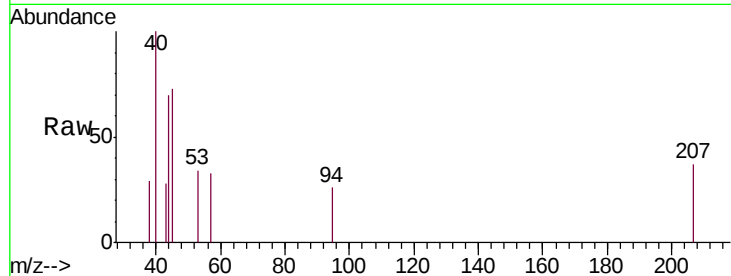
T4-4(0)-HELLGATE

Tgt Ion: 94 Resp: 42

Ion Ratio Lower Upper

94 100

96 0.0 77.8 116.6#

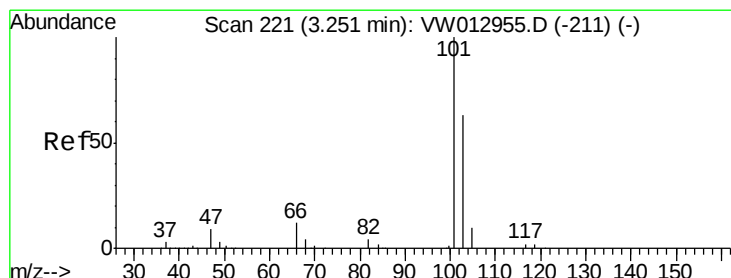
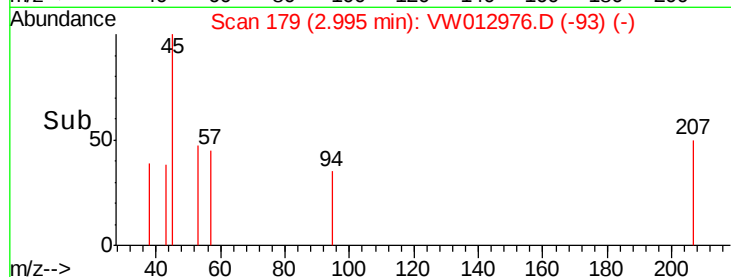


Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

3.00

Time-->



#7

Trichlorofluoromethane

Concen: 1.273 ug/l

RT: 3.29 min Scan# 227

Delta R.T. 0.04 min

Lab File: VW012976.D

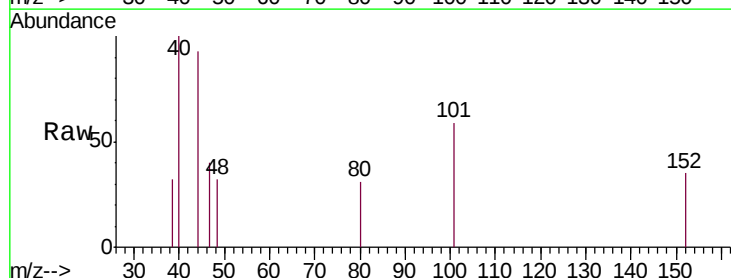
Acq: 14 Sep 2019 01:42

Tgt Ion: 101 Resp: 56

Ion Ratio Lower Upper

101 100

103 0.0 50.7 76.1#

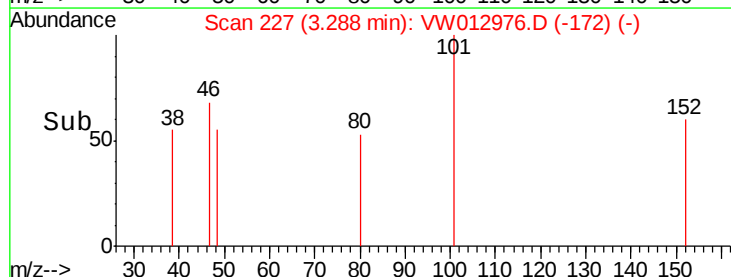


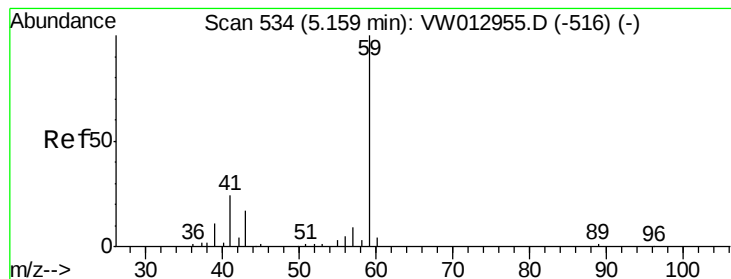
Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.29

Time-->



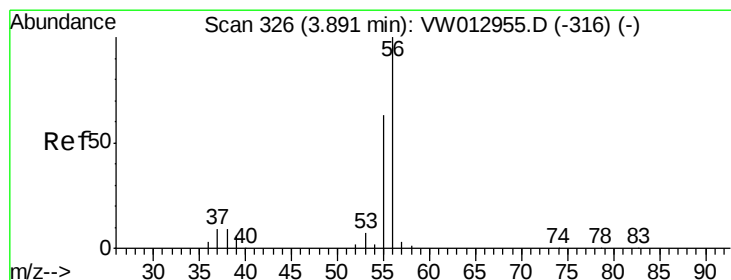
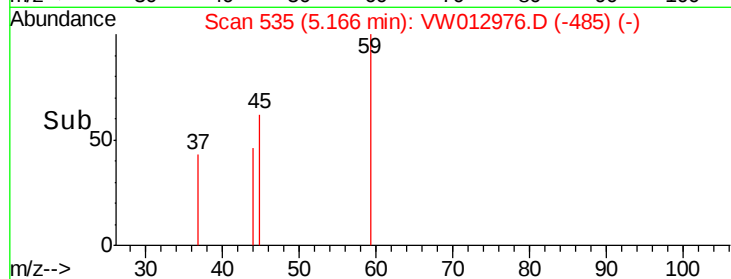
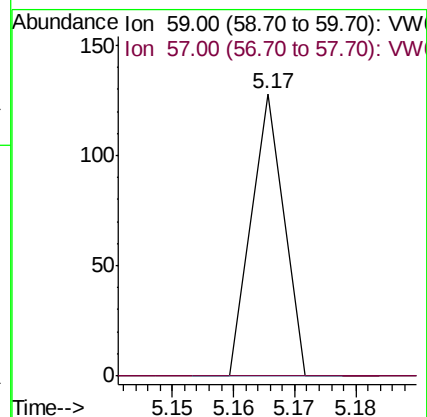
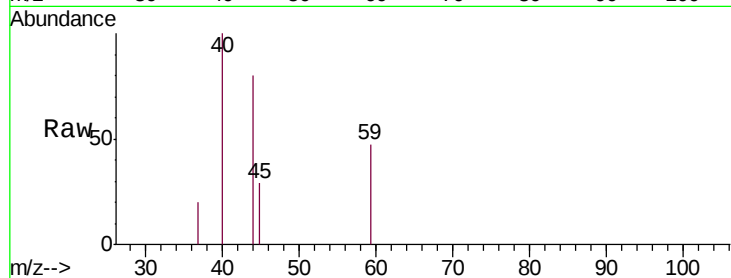


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.17 min Scan# 535
 Delta R.T. 0.01 min
 Lab File: VW012976.D
 Acq: 14 Sep 2019 01:42

Instrument :
 MSVOA_W
 ClientSampleId :
 T4-4(0)-HELLGATE

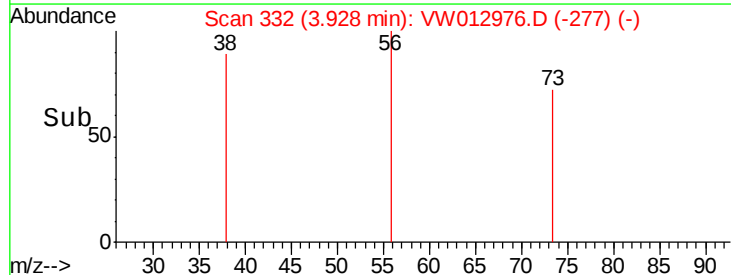
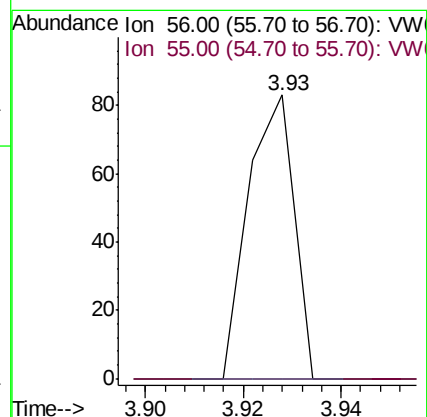
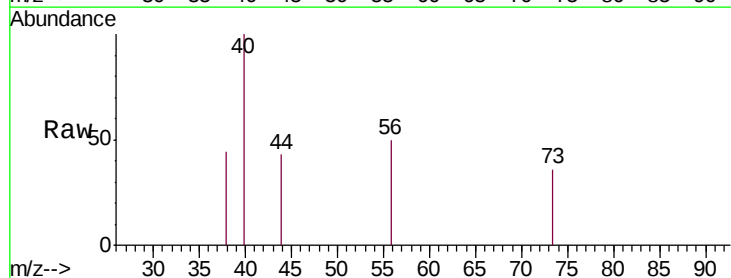
Tgt Ion: 59 Resp: 47
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

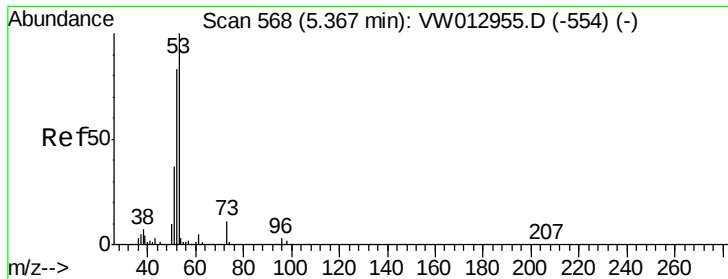


#13

Acrolein
 Concen: 2.078 ug/l
 RT: 3.93 min Scan# 332
 Delta R.T. 0.04 min
 Lab File: VW012976.D
 Acq: 14 Sep 2019 01:42

Tgt Ion: 56 Resp: 54
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.8 83.8#





#15

Acrylonitrile

Concen: 1.425 ug/l

RT: 5.45 min Scan# 581

Delta R.T. 0.08 min

Lab File: VW012976.D

Acq: 14 Sep 2019 01:42

Instrument :

MSVOA_W

ClientSampleId :

T4-4(0)-HELLGATE

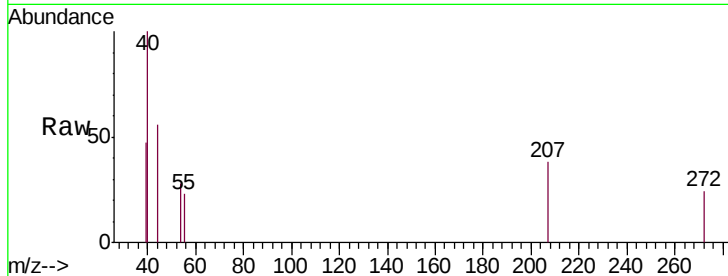
Tgt Ion: 53 Resp: 25

Ion Ratio Lower Upper

53 100

52 0.0 66.6 100.0#

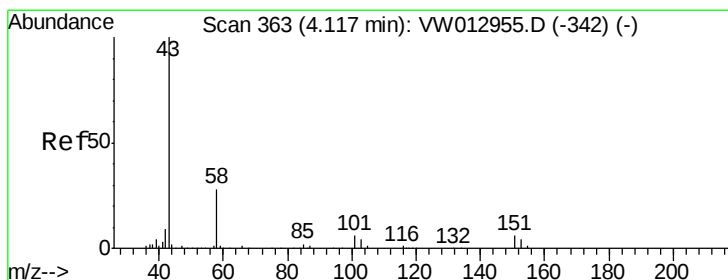
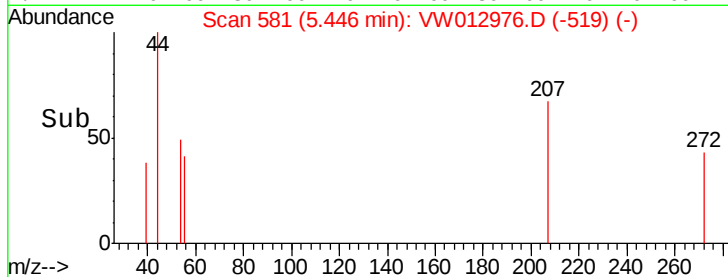
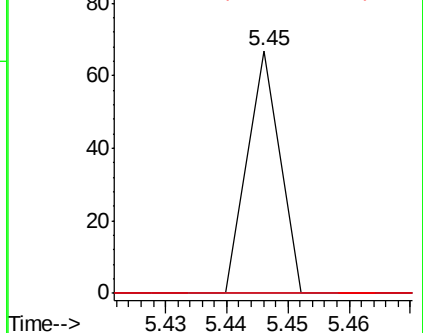
51 0.0 29.8 44.8#



Abundance Ion 53.00 (52.70 to 53.70): VW

Ion 52.00 (51.70 to 52.70): VW

Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: Below Cal

RT: 4.11 min Scan# 362

Delta R.T. -0.01 min

Lab File: VW012976.D

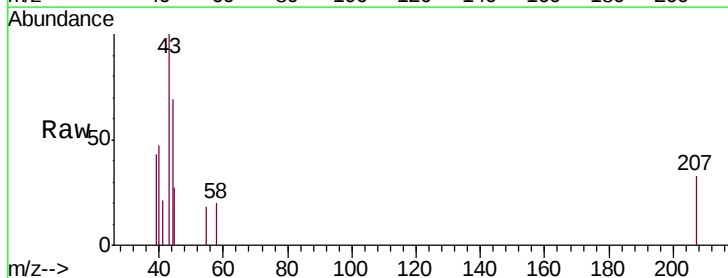
Acq: 14 Sep 2019 01:42

Tgt Ion: 43 Resp: 262

Ion Ratio Lower Upper

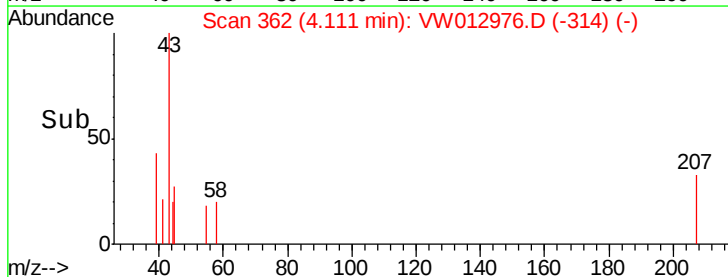
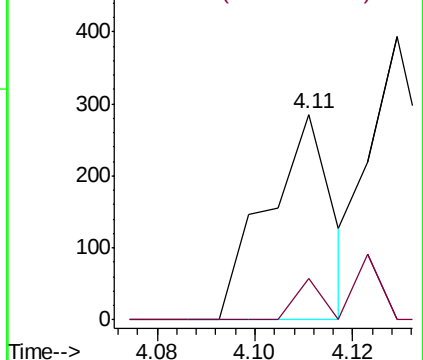
43 100

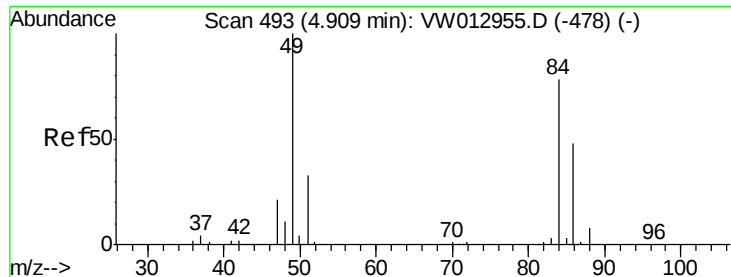
58 19.9 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

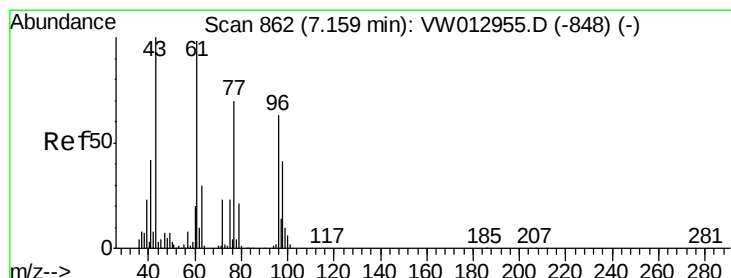
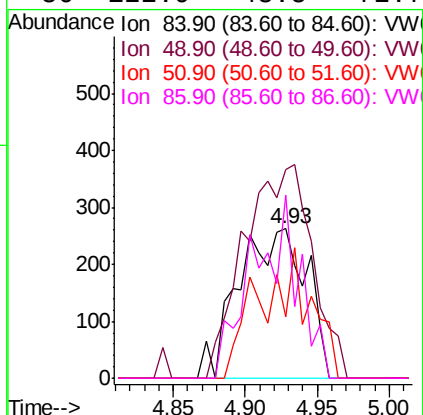
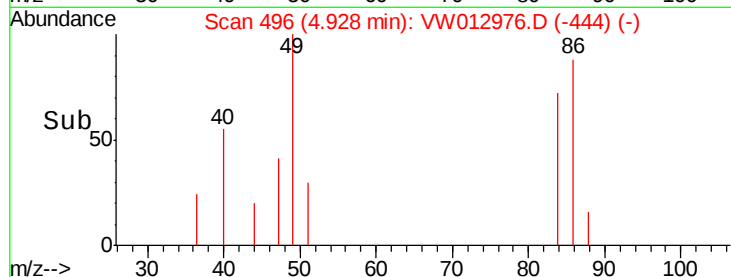
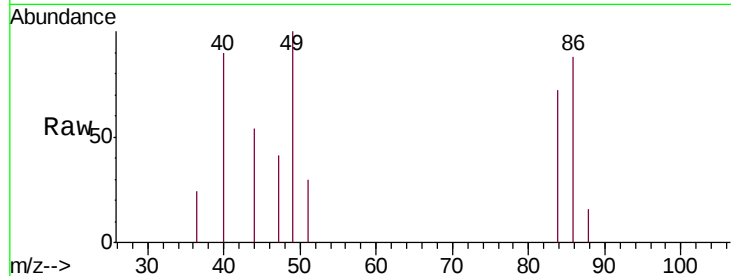




#20
Methylene Chloride
Concen: 8.918 ug/l
RT: 4.93 min Scan# 496
Delta R.T. 0.02 min
Lab File: VW012976.D
Acq: 14 Sep 2019 01:42

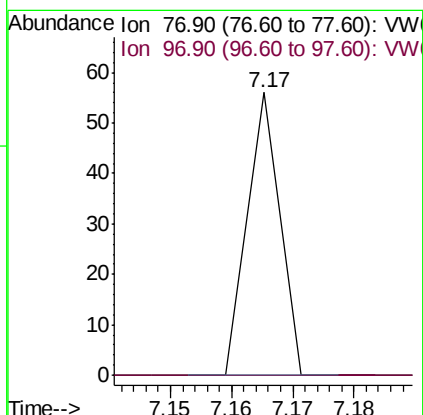
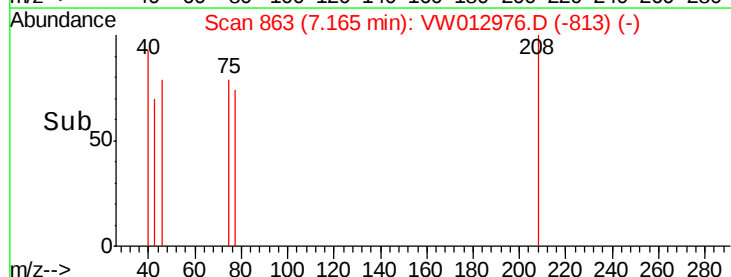
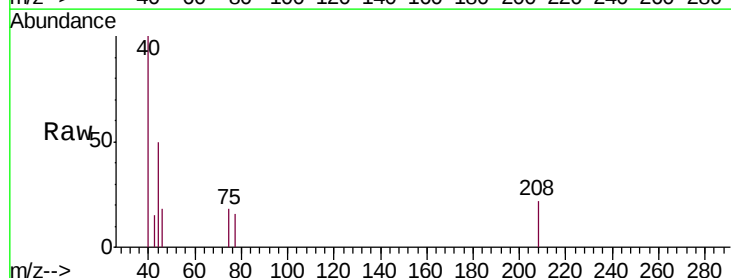
Instrument :
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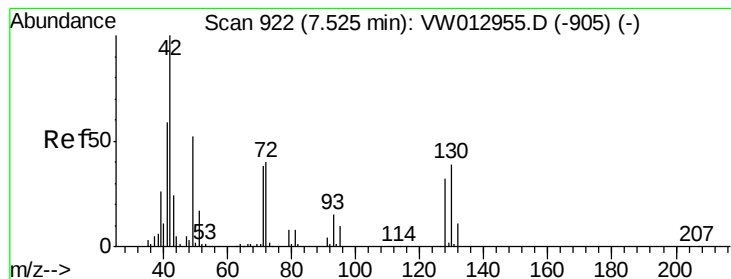
Tgt Ion: 84 Resp: 864
Ion Ratio Lower Upper
84 100
49 139.7 102.0 153.0
51 41.6 34.0 51.0
86 122.9 48.5 72.7#



#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.17 min Scan# 863
Delta R.T. 0.01 min
Lab File: VW012976.D
Acq: 14 Sep 2019 01:42

Tgt Ion: 77 Resp: 20
Ion Ratio Lower Upper
77 100
97 0.0 10.7 32.1#





#29

Tetrahydrofuran

Concen: 4.081 ug/l

RT: 7.52 min Scan# 921

Delta R.T. -0.01 min

Lab File: VW012976.D

Acq: 14 Sep 2019 01:42

Instrument :

MSVOA_W

ClientSampleId :

T4-4(0)-HELLGATE

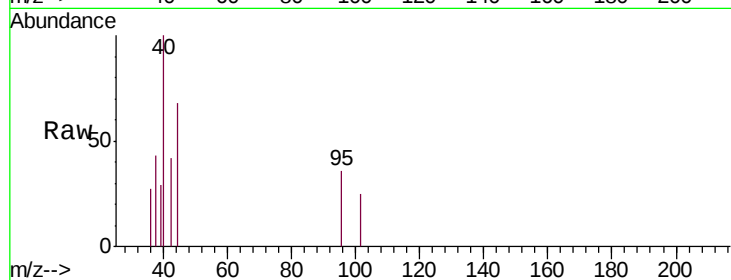
Tgt Ion: 42 Resp: 60

Ion Ratio Lower Upper

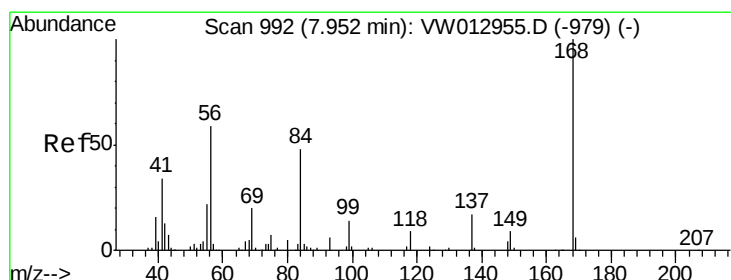
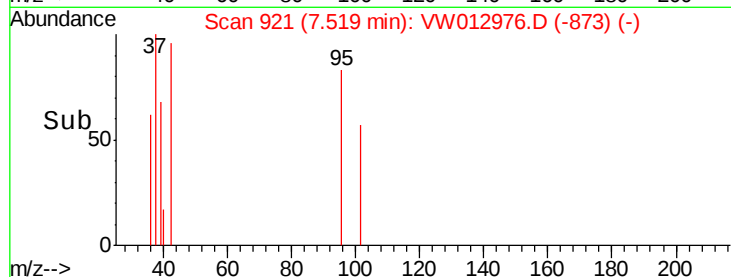
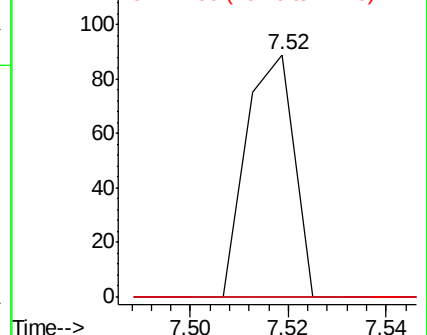
42 100

72 0.0 31.4 47.0#

71 0.0 29.8 44.8#



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: Below Cal

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012976.D

Acq: 14 Sep 2019 01:42

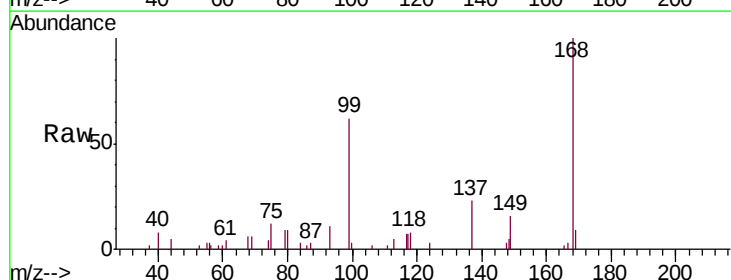
Tgt Ion: 56 Resp: 170

Ion Ratio Lower Upper

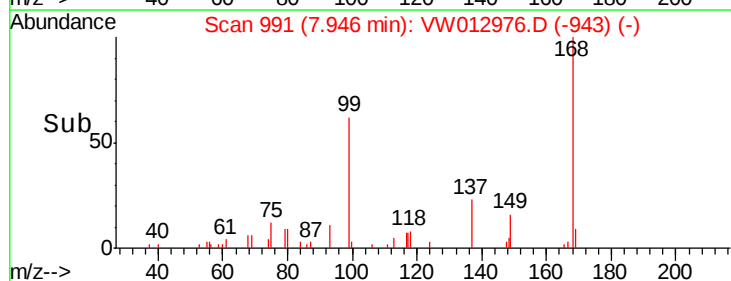
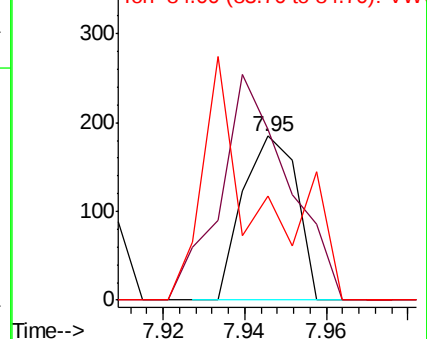
56 100

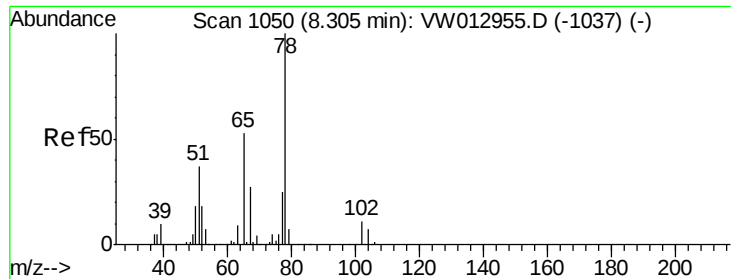
69 103.8 27.0 40.6#

84 63.2 66.2 99.2#



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

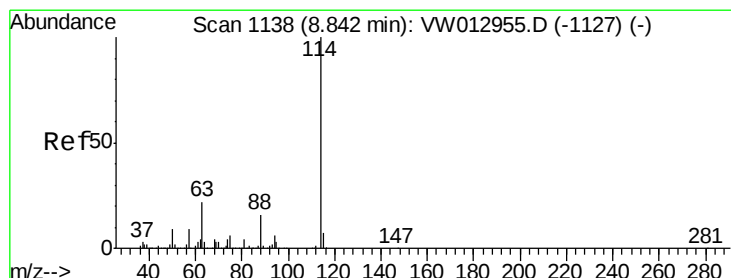
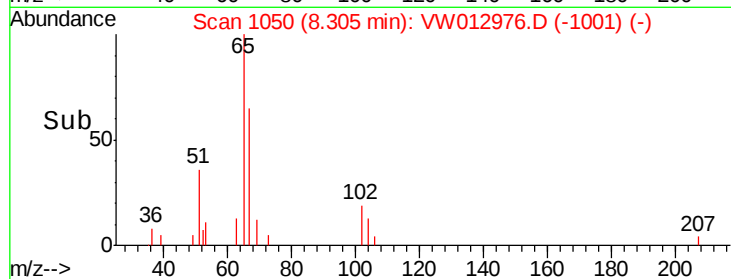
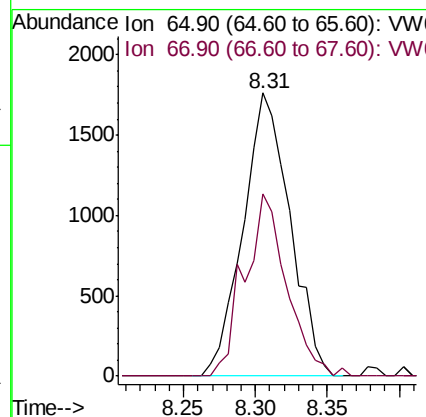
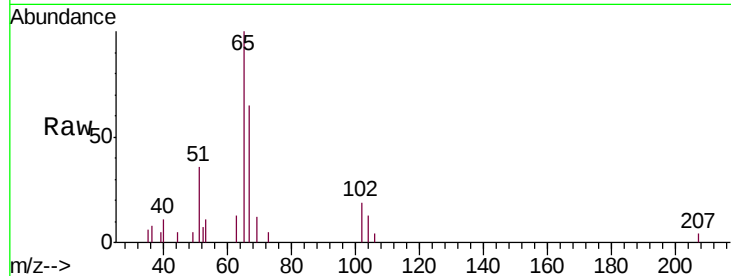




#33
 1,2-Dichloroethane-d4
 Concen: 49.134 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW012976.D
 Acq: 14 Sep 2019 01:42

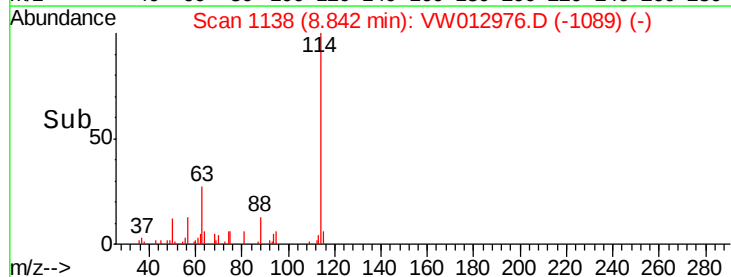
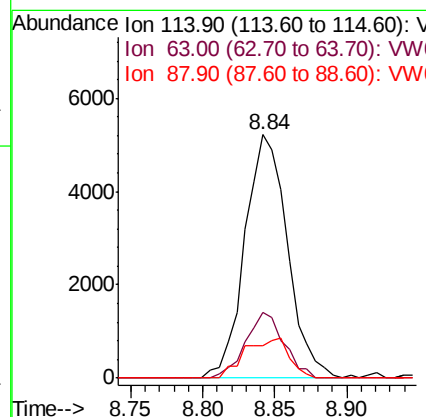
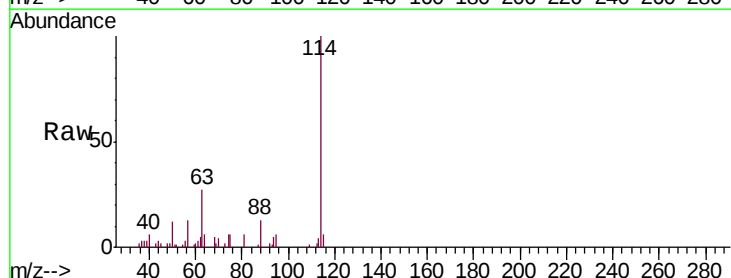
Instrument :
 MSVOA_W
 ClientSampleId :
 T4-4(0)-HELLGATE

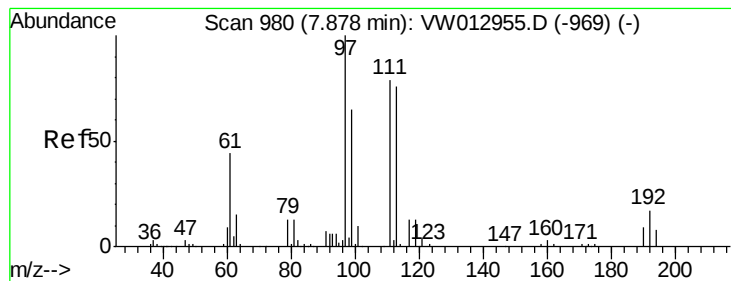
Tgt Ion: 65 Resp: 3987
 Ion Ratio Lower Upper
 65 100
 67 58.1 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW012976.D
 Acq: 14 Sep 2019 01:42

Tgt Ion: 114 Resp: 10650
 Ion Ratio Lower Upper
 114 100
 63 27.2 0.0 43.4
 88 13.4 0.0 31.6





#35

Dibromofluoromethane

Concen: 62.383 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW012976.D

Acq: 14 Sep 2019 01:42

Instrument :

MSVOA_W

ClientSampleId :

T4-4(0)-HELLGATE

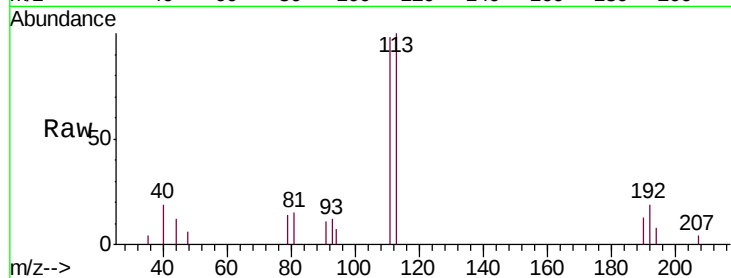
Tgt Ion:113 Resp: 3605

Ion Ratio Lower Upper

113 100

111 101.1 82.8 124.2

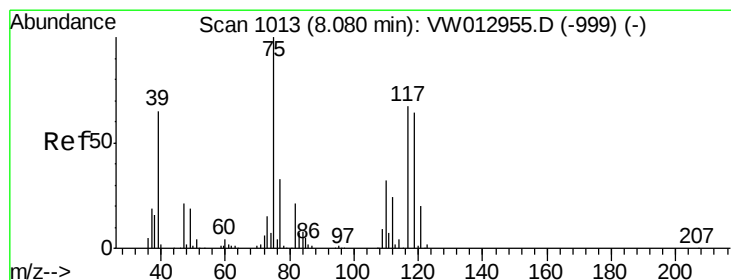
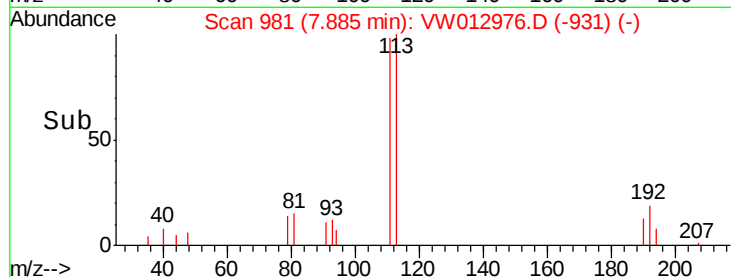
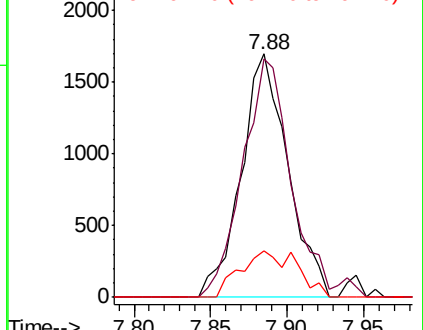
192 22.9 17.8 26.8



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: 8.731 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW012976.D

Acq: 14 Sep 2019 01:42

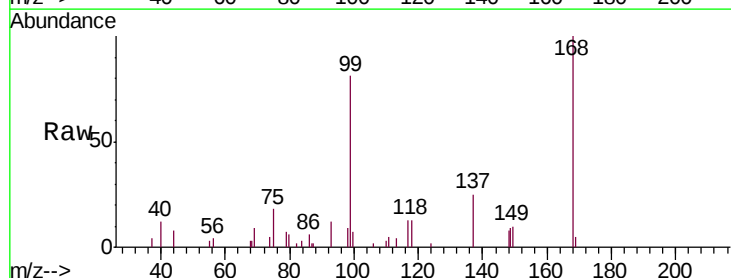
Tgt Ion: 75 Resp: 743

Ion Ratio Lower Upper

75 100

110 4.0 16.4 49.1#

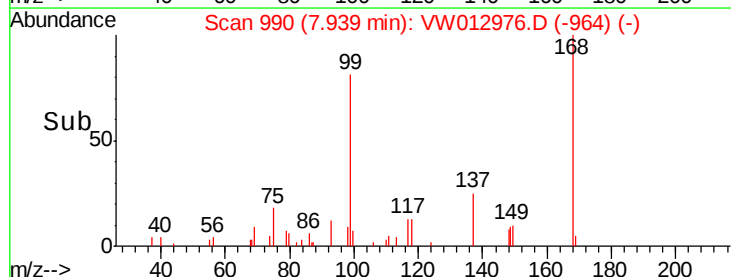
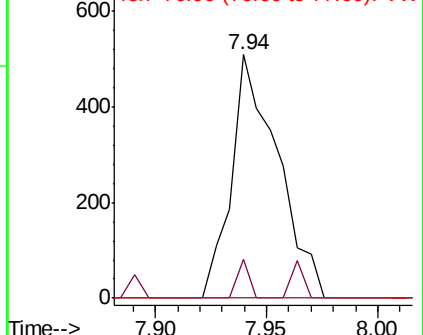
77 0.0 25.1 37.7#

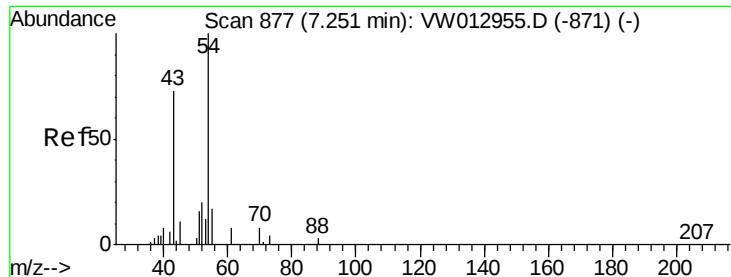


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

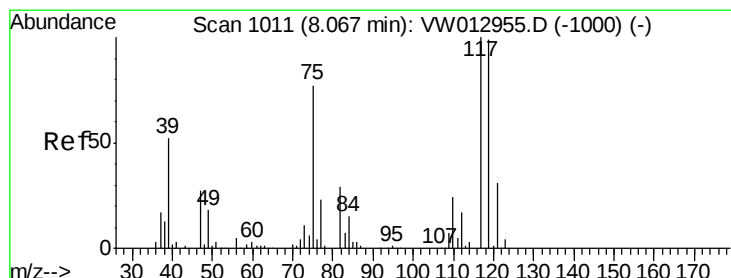
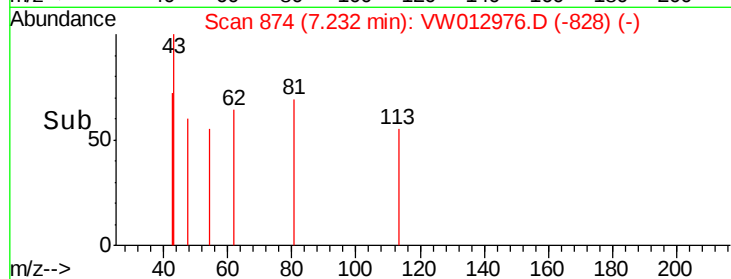
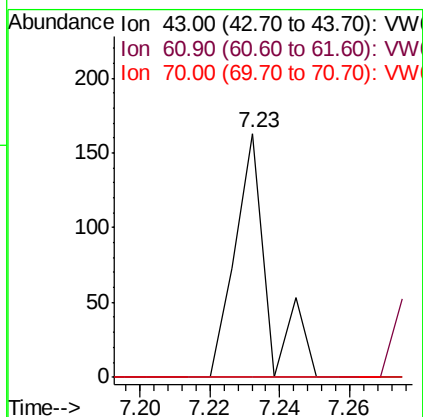
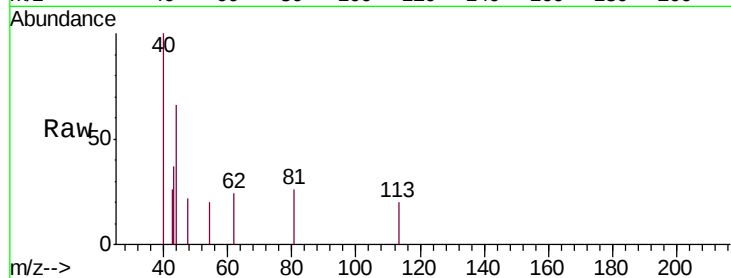




#37
Ethyl Acetate
Concen: 2.347 ug/l
RT: 7.23 min Scan# 874
Delta R.T. -0.02 min
Lab File: VW012976.D
Acq: 14 Sep 2019 01:42

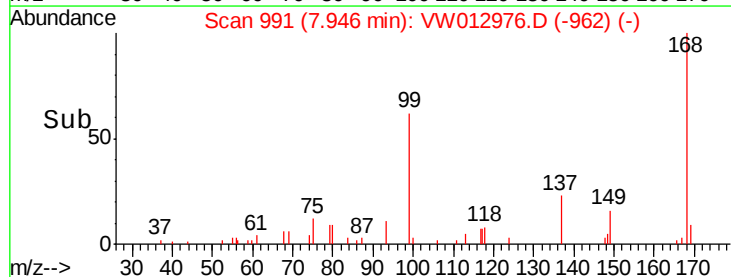
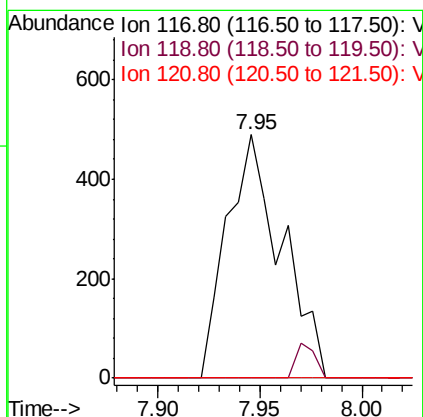
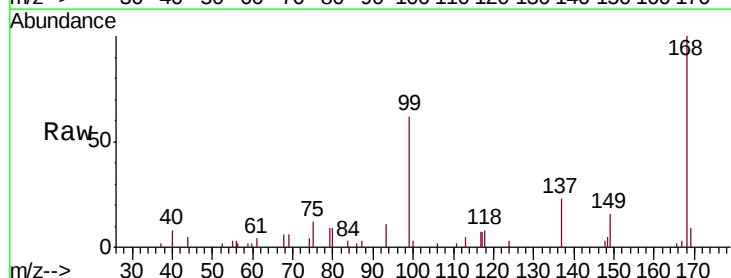
Instrument :
MSVOA_W
ClientSampleId :
T4-4(0)-HELLGATE

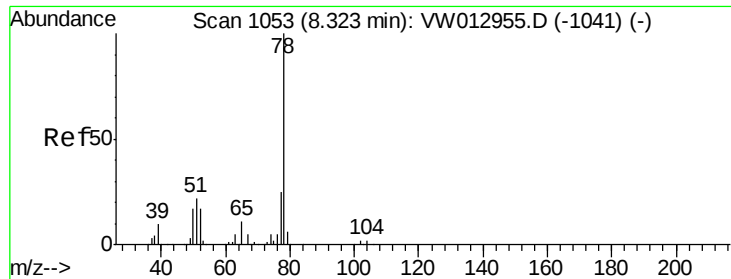
Tgt Ion: 43 Resp: 106
Ion Ratio Lower Upper
43 100
61 0.0 9.6 14.4#
70 0.0 7.6 11.4#



#38
Carbon Tetrachloride
Concen: 10.423 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW012976.D
Acq: 14 Sep 2019 01:42

Tgt Ion: 117 Resp: 909
Ion Ratio Lower Upper
117 100
119 0.0 79.4 119.0#
121 0.0 24.6 36.8#





#40

Benzene

Concen: 1.835 ug/l

RT: 8.33 min Scan# 1054

Delta R.T. 0.01 min

Lab File: VW012976.D

Acq: 14 Sep 2019 01:42

Instrument :

MSVOA_W

ClientSampleId :

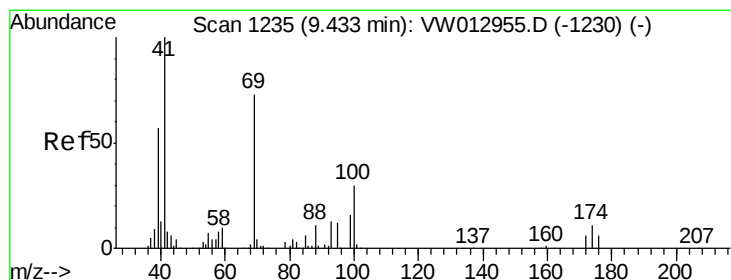
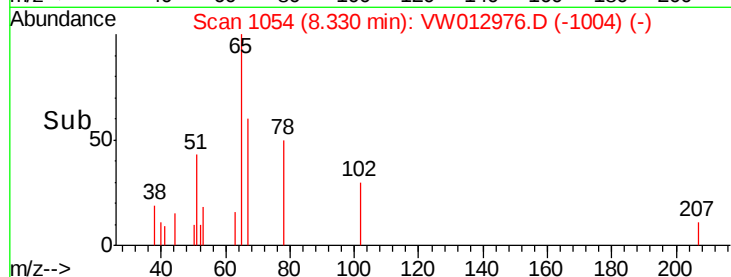
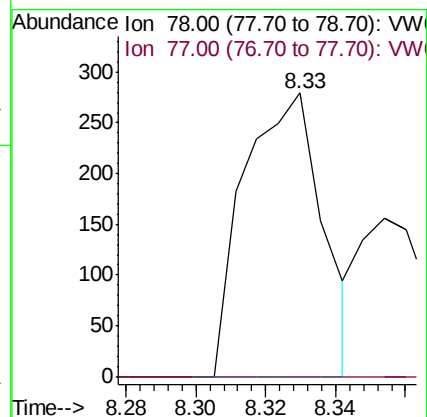
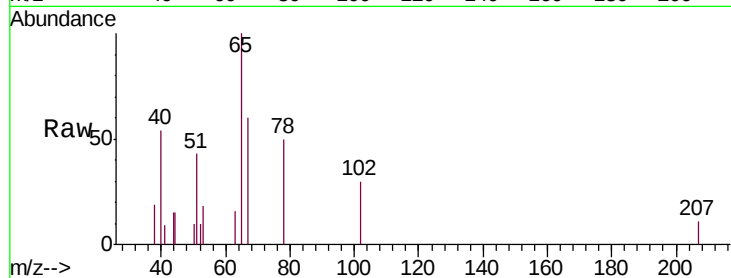
T4-4(0)-HELLGATE

Tgt Ion: 78 Resp: 436

Ion Ratio Lower Upper

78 100

77 0.0 19.6 29.4#



#48

Methyl methacrylate

Concen: 1.081 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. 0.01 min

Lab File: VW012976.D

Acq: 14 Sep 2019 01:42

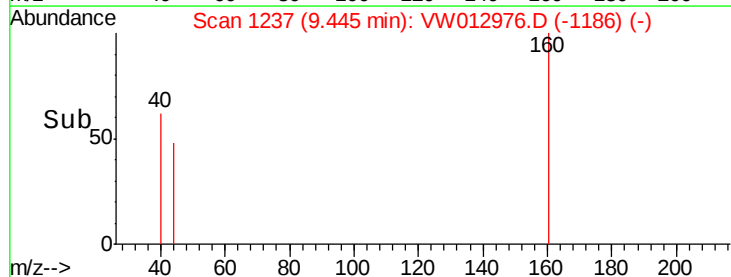
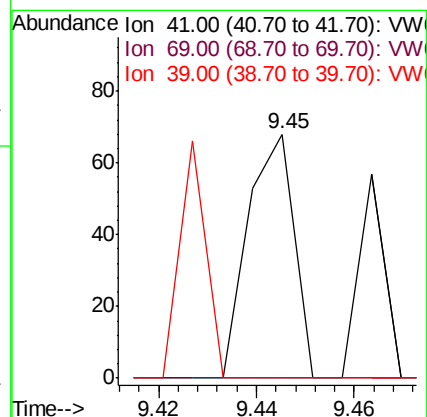
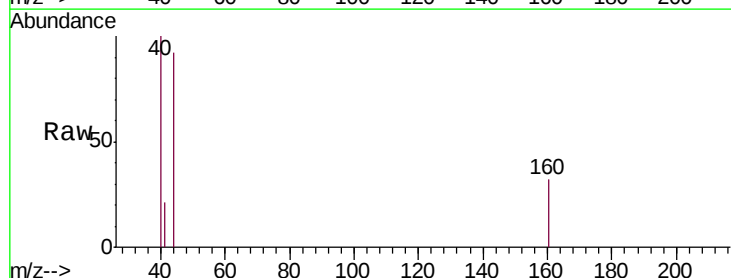
Tgt Ion: 41 Resp: 44

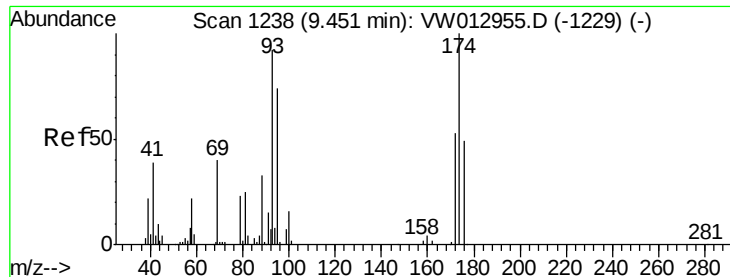
Ion Ratio Lower Upper

41 100

69 0.0 62.8 94.2#

39 54.5 48.5 72.7





#49

1,4-Dioxane

Concen: 86.831 ug/l

RT: 9.21 min Scan# 1198

Delta R.T. -0.24 min

Lab File: VW012976.D

Acq: 14 Sep 2019 01:42

Instrument :

MSVOA_W

ClientSampleId :

T4-4(0)-HELLGATE

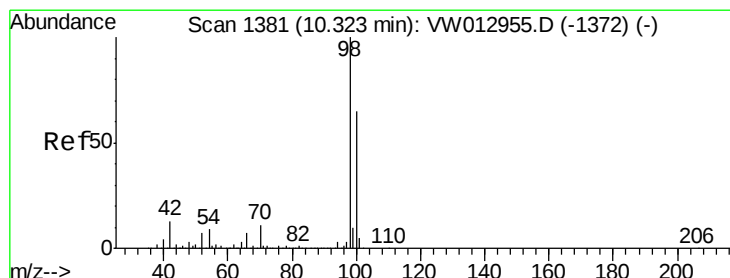
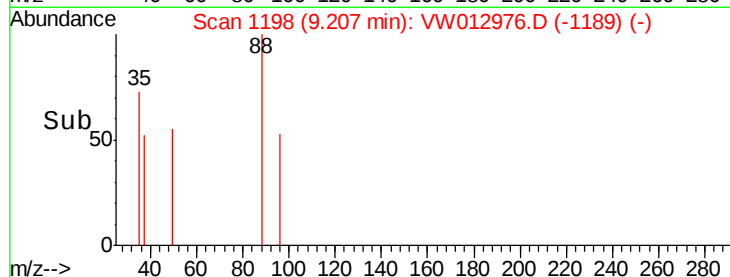
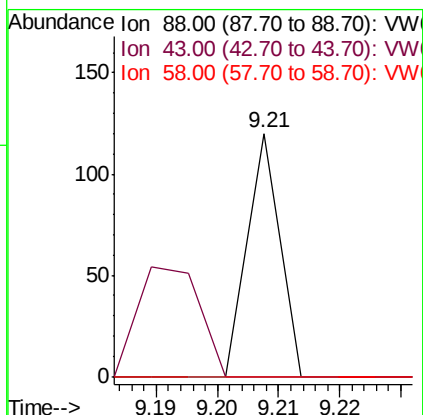
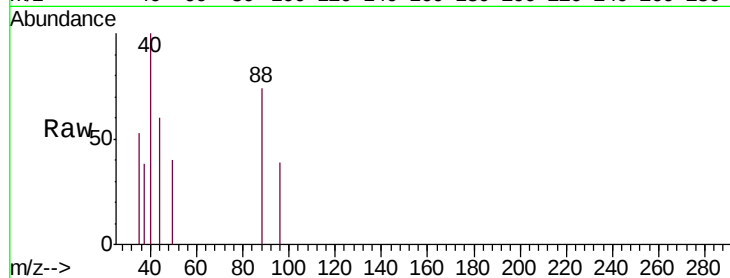
Tgt Ion: 88 Resp: 44

Ion Ratio Lower Upper

88 100

43 86.4 31.3 46.9#

58 0.0 60.2 90.2#



#50

Toluene-d8

Concen: 48.887 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VW012976.D

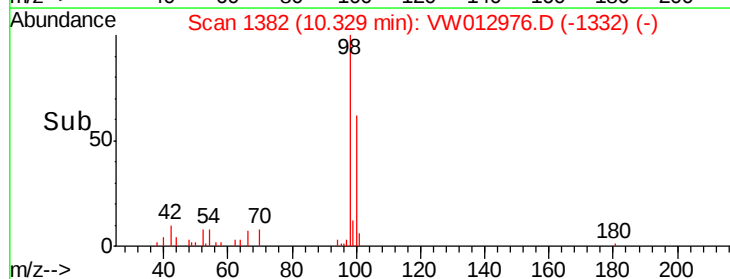
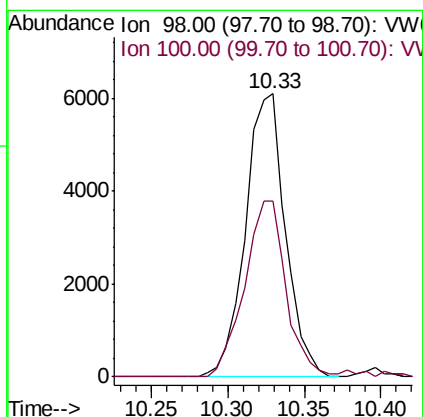
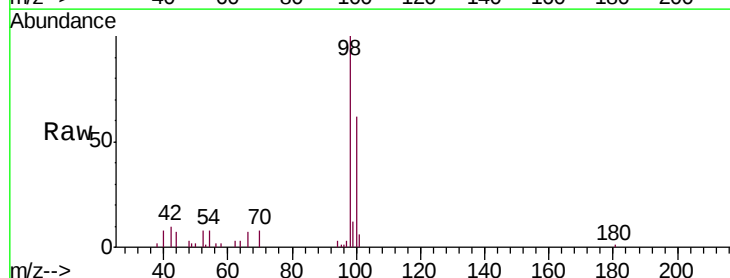
Acq: 14 Sep 2019 01:42

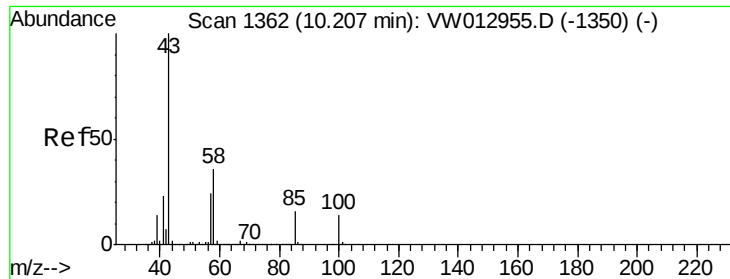
Tgt Ion: 98 Resp: 11055

Ion Ratio Lower Upper

98 100

100 64.6 52.1 78.1

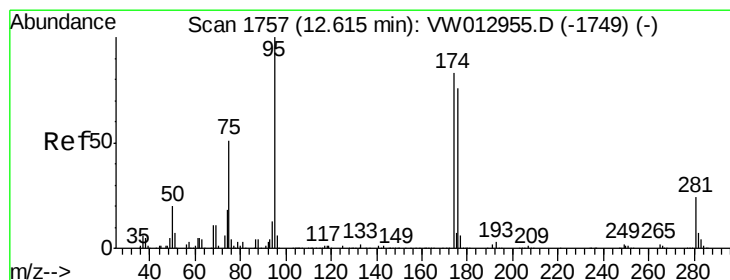
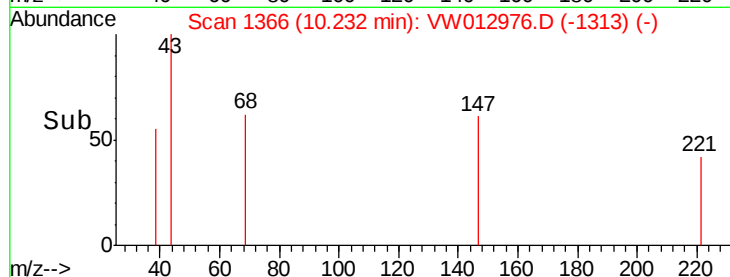
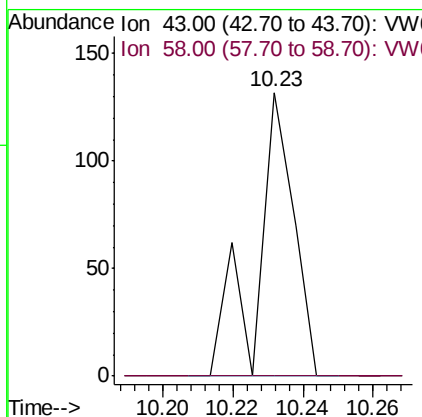
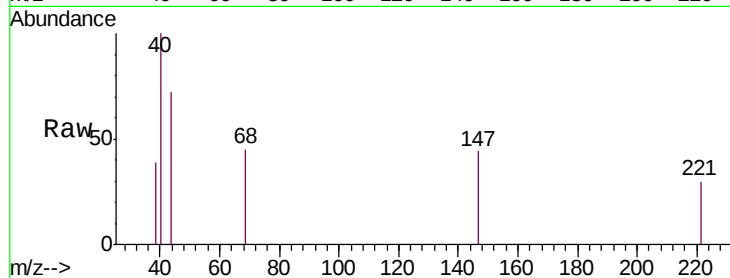




#51
 4-Methyl-2-Pentanone
 Concen: 2.166 ug/l
 RT: 10.23 min Scan# 1366
 Delta R.T. 0.02 min
 Lab File: VW012976.D
 Acq: 14 Sep 2019 01:42

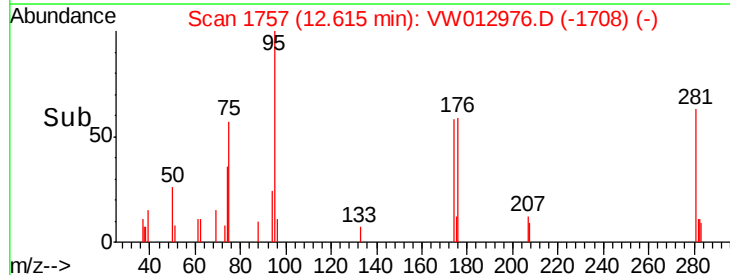
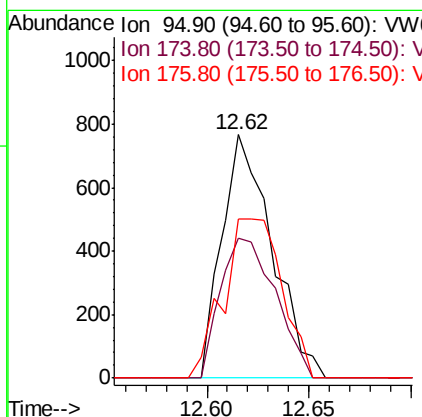
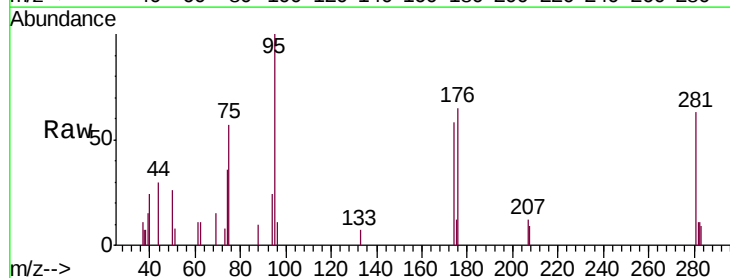
Instrument :
 MSVOA_W
 ClientSampleId :
 T4-4(0)-HELLGATE

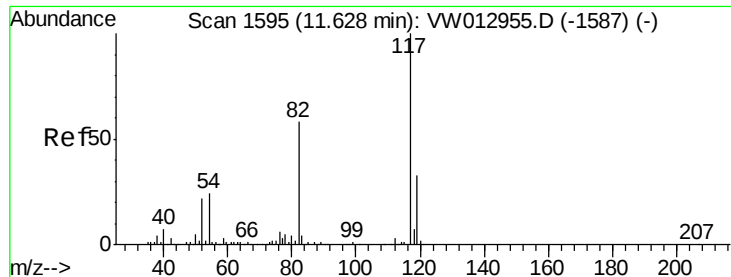
Tgt Ion: 43 Resp: 97
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.5 44.3#



#62
 4-Bromofluorobenzene
 Concen: 16.062 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VW012976.D
 Acq: 14 Sep 2019 01:42

Tgt Ion: 95 Resp: 1306
 Ion Ratio Lower Upper
 95 100
 174 63.2 0.0 170.4
 176 76.6 0.0 164.6

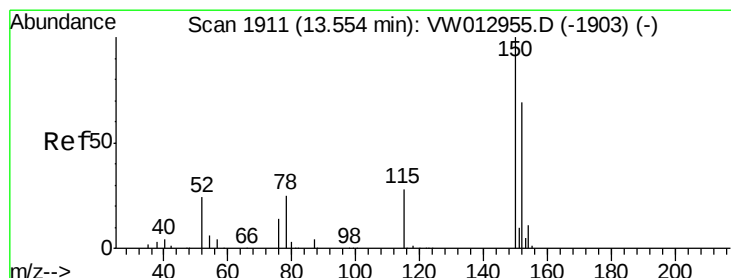
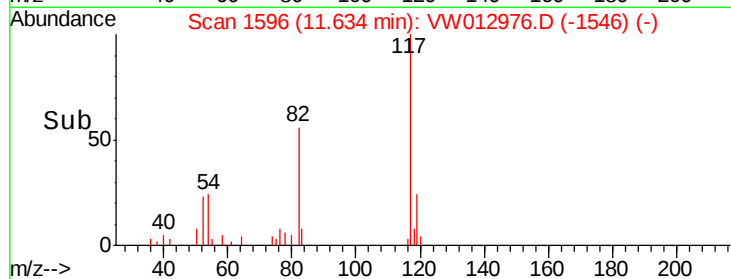
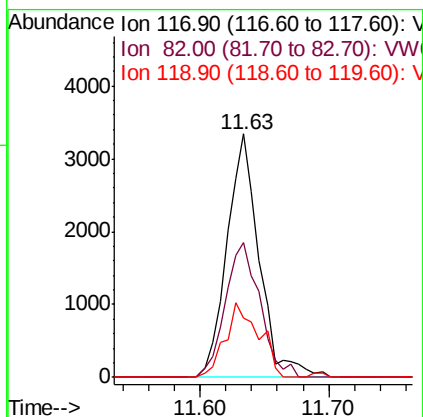
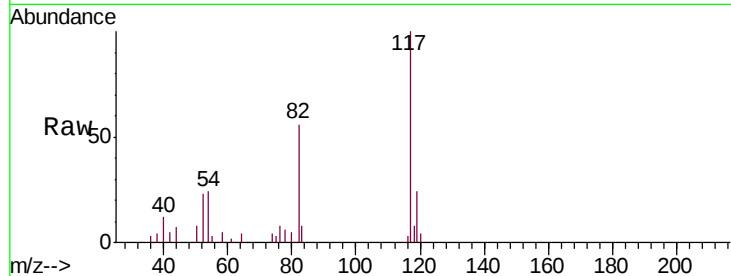




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW012976.D
Acq: 14 Sep 2019 01:42

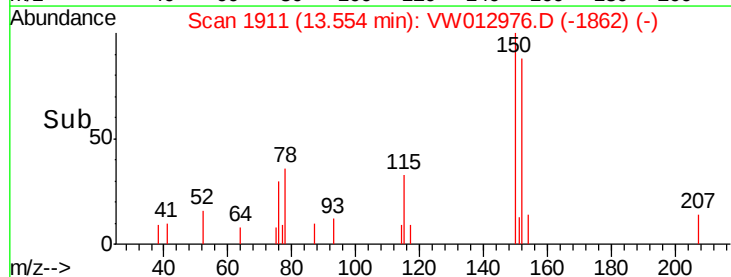
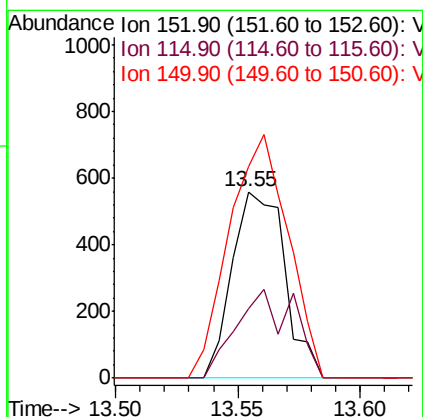
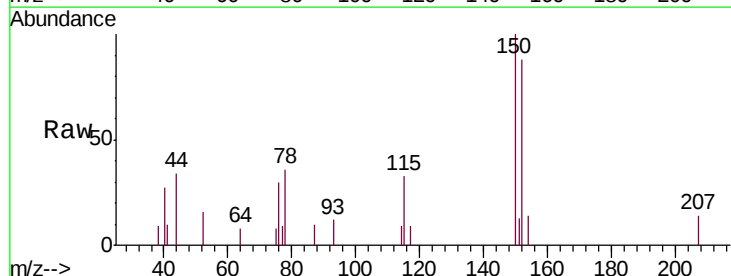
Instrument :
MSVOA_W
ClientSampleId :
T4-4(0)-HELLGATE

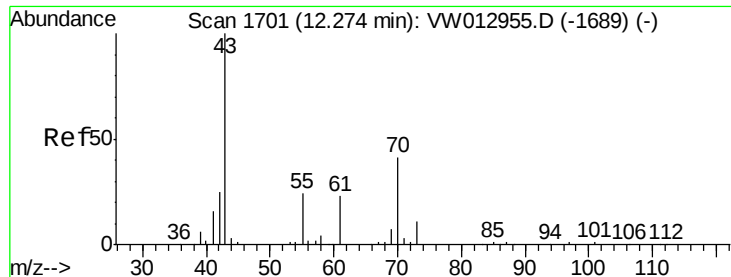
Tgt Ion:117 Resp: 5833
Ion Ratio Lower Upper
117 100
82 55.5 46.3 69.5
119 24.4 26.2 39.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. 0.00 min
Lab File: VW012976.D
Acq: 14 Sep 2019 01:42

Tgt Ion:152 Resp: 839
Ion Ratio Lower Upper
152 100
115 51.6 28.8 86.4
150 146.4 0.0 340.2





#74

N-ethyl acetate

Concen: 1.328 ug/l

RT: 12.34 min Scan# 1711

Delta R.T. 0.06 min

Lab File: VW012976.D

Acq: 14 Sep 2019 01:42

Instrument :

MSVOA_W

ClientSampleId :

T4-4(0)-HELLGATE

Tgt Ion: 43 Resp: 19

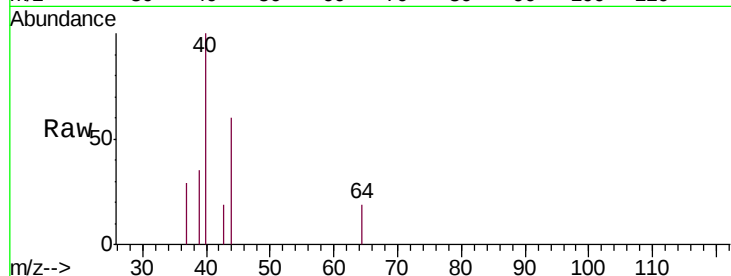
Ion Ratio Lower Upper

43 100

70 0.0 31.7 47.5#

55 0.0 19.4 29.2#

61 0.0 18.7 28.1#

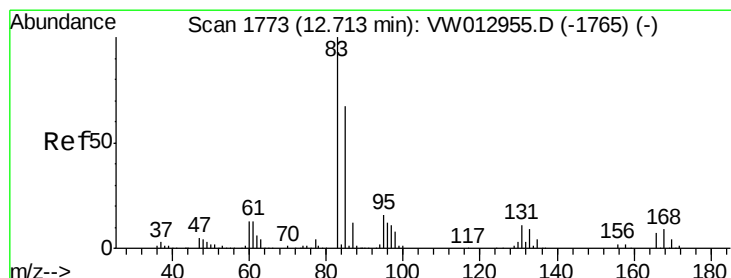
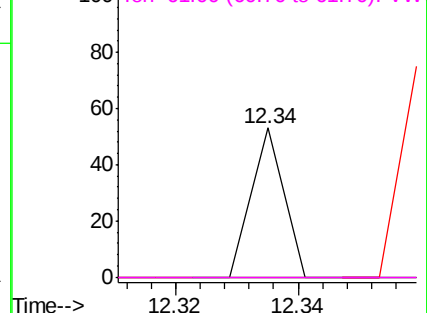
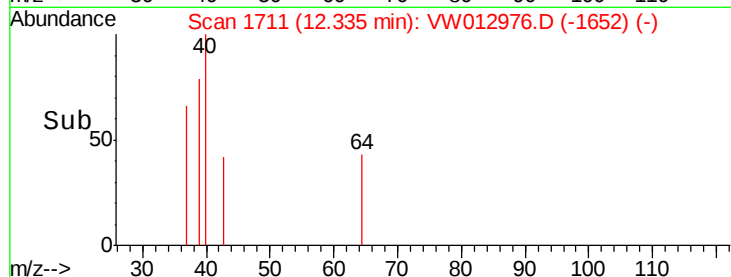


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#75

1,1,2,2-Tetrachloroethane

Concen: 5.324 ug/l

RT: 12.78 min Scan# 1784

Delta R.T. 0.07 min

Lab File: VW012976.D

Acq: 14 Sep 2019 01:42

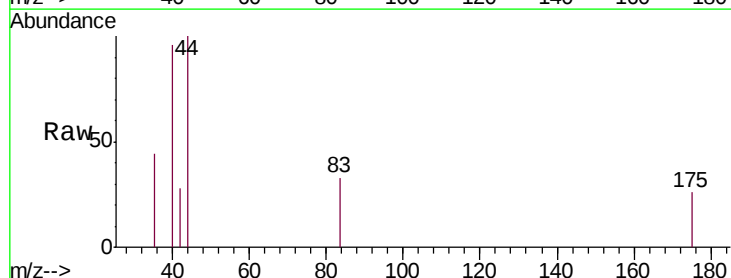
Tgt Ion: 83 Resp: 52

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

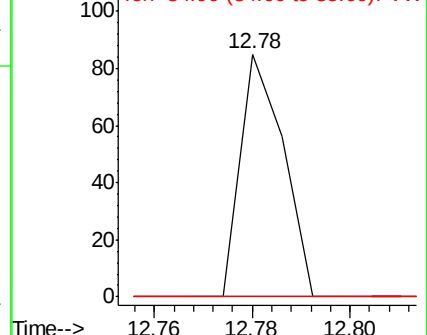
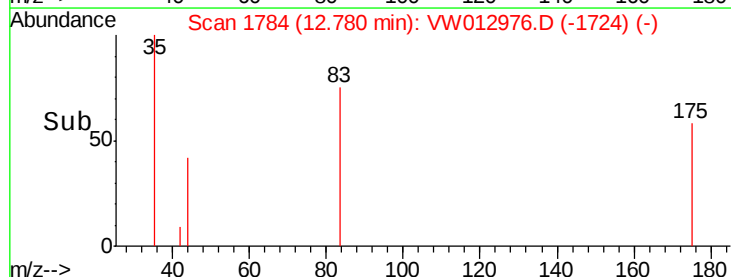
85 0.0 31.4 94.3#

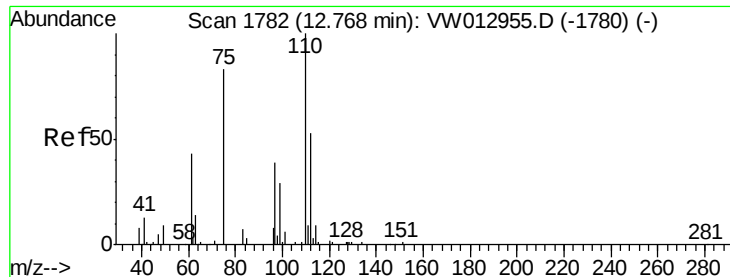


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW

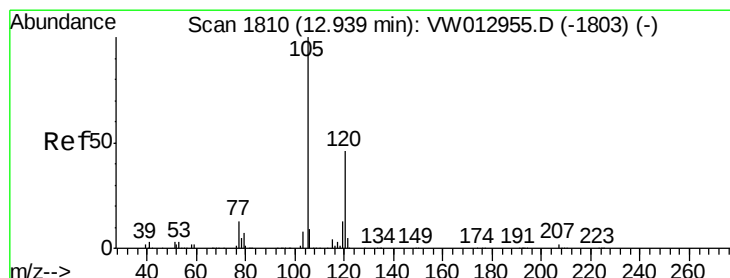
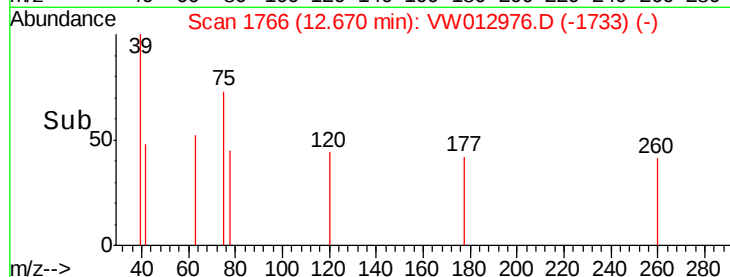
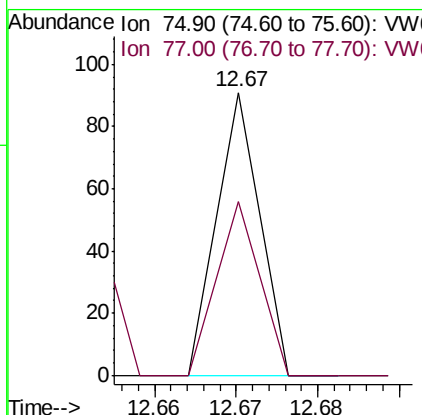
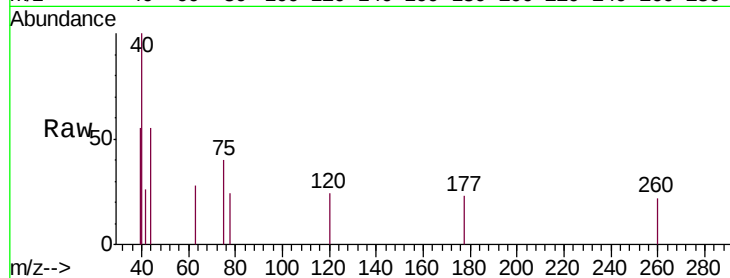




#76
 1,2,3-Trichloropropane
 Concen: 4.490 ug/l
 RT: 12.67 min Scan# 1766
 Delta R.T. -0.10 min
 Lab File: VW012976.D
 Acq: 14 Sep 2019 01:42

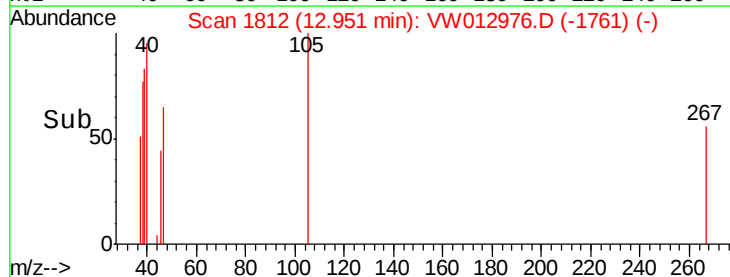
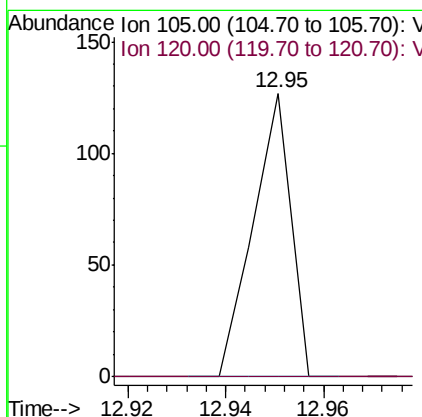
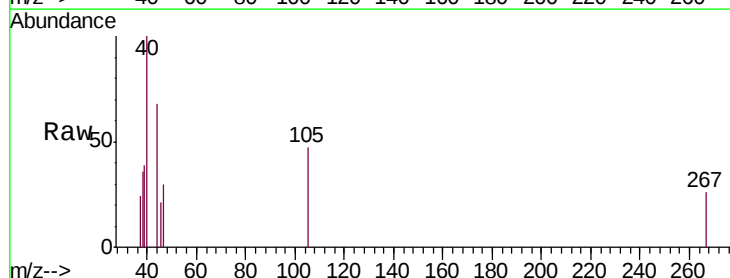
Instrument :
 MSVOA_W
 ClientSampleId :
 T4-4(0)-HELLGATE

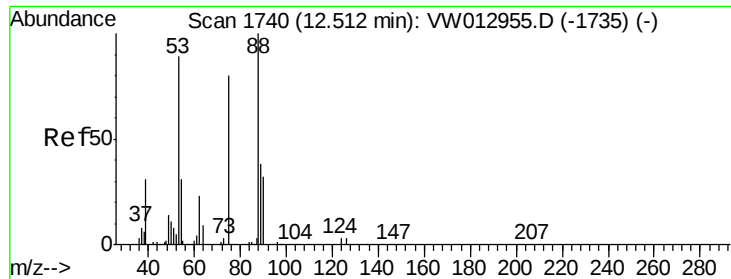
Tgt Ion: 75 Resp: 33
 Ion Ratio Lower Upper
 75 100
 77 60.6 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 1.445 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. 0.01 min
 Lab File: VW012976.D
 Acq: 14 Sep 2019 01:42

Tgt Ion: 105 Resp: 68
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.2 72.6#

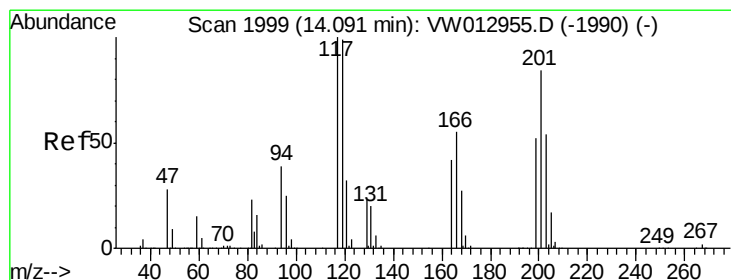
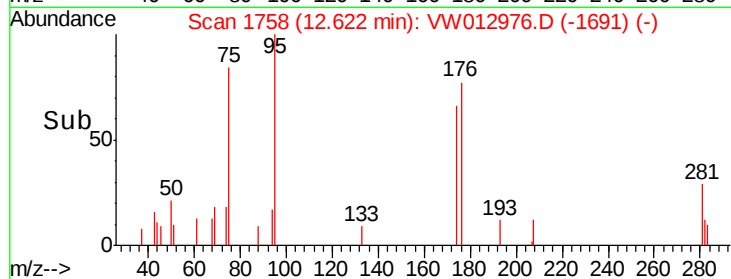
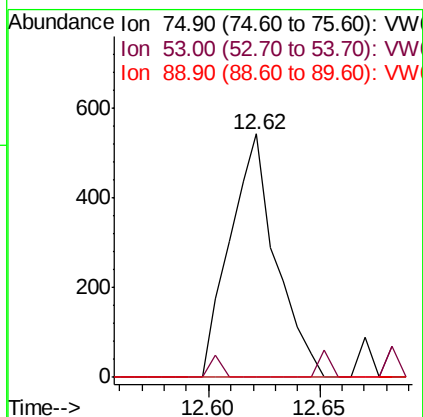
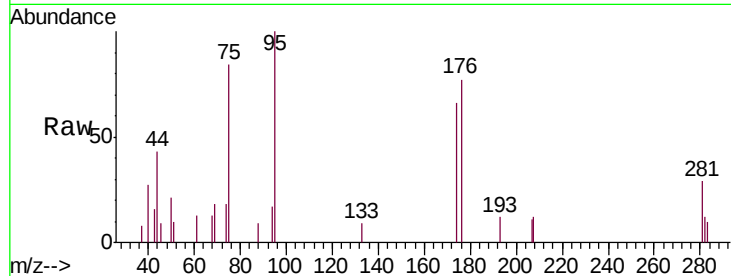




#81
 trans-1,4-Dichloro-2-butene
 Concen: 240.462 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW012976.D
 Acq: 14 Sep 2019 01:42

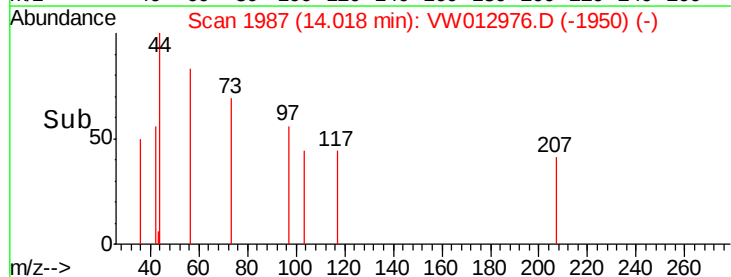
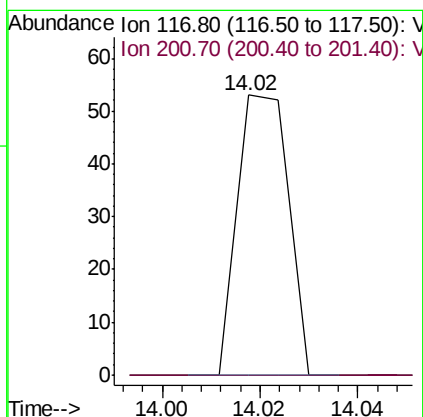
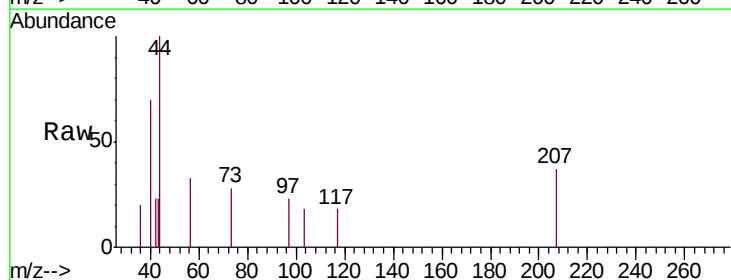
Instrument :
 MSVOA_W
 ClientSampleId :
 T4-4(0)-HELLGATE

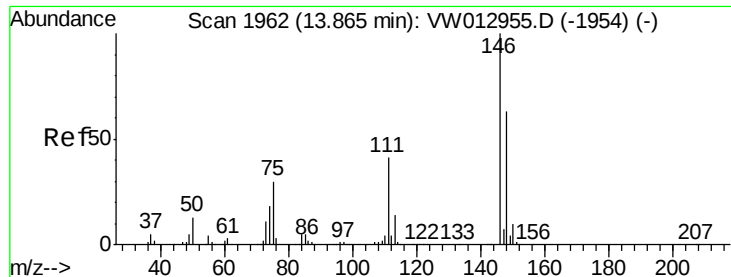
Tgt Ion: 75 Resp: 779
 Ion Ratio Lower Upper
 75 100
 53 2.3 85.6 128.4#
 89 0.0 37.2 55.8#



#90
 Hexachloroethane
 Concen: 4.028 ug/l
 RT: 14.02 min Scan# 1987
 Delta R.T. -0.07 min
 Lab File: VW012976.D
 Acq: 14 Sep 2019 01:42

Tgt Ion: 117 Resp: 38
 Ion Ratio Lower Upper
 117 100
 201 0.0 45.3 135.9#





#91

1,2-Dichlorobenzene

Concen: 1.480 ug/l

RT: 13.86 min Scan# 1961

Delta R.T. -0.01 min

Lab File: VW012976.D

Acq: 14 Sep 2019 01:42

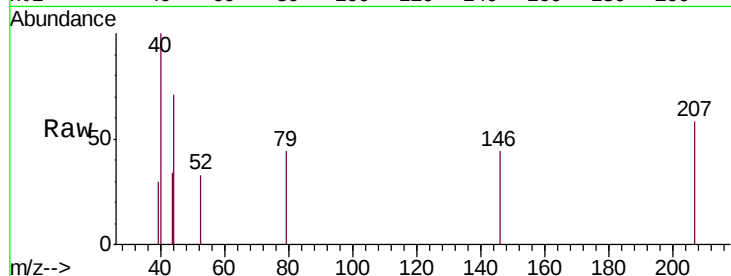
Instrument :

MSVOA_W

ClientSampleId :

T4-4(0)-HELLGATE

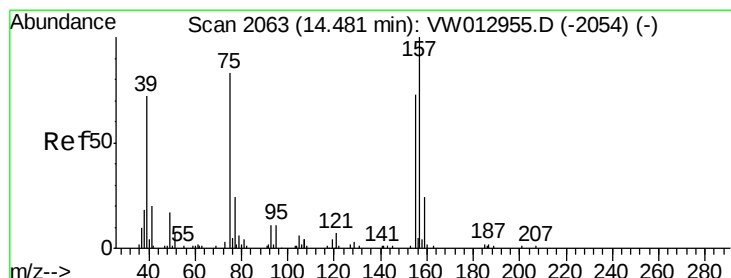
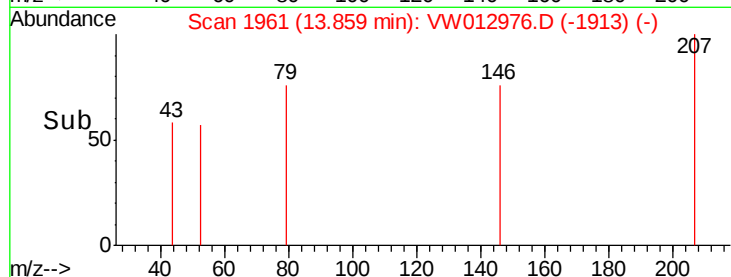
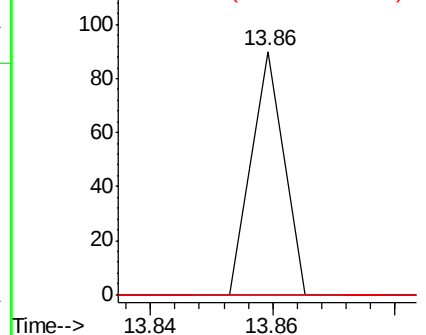
Tgt Ion:	146	Resp:	33
Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.8	62.5#
148	0.0	32.7	98.1#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 14.543 ug/l

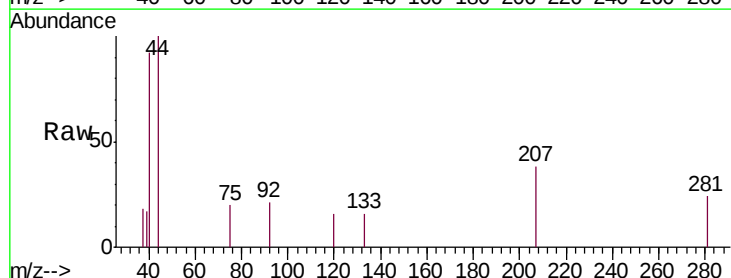
RT: 14.45 min Scan# 2058

Delta R.T. -0.03 min

Lab File: VW012976.D

Acq: 14 Sep 2019 01:42

Tgt Ion:	75	Resp:	26
Ion	Ratio	Lower	Upper
75	100		
155	0.0	43.3	129.9#
157	0.0	54.7	164.1#



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

