

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010719\
 Data File : VW008073.D
 Acq On : 07 Jan 2019 16:48
 Operator : SY/AP
 Sample : K1071-02
 Misc : 5.04G/5ML/MSVOA W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 CPSB-17(20-25)

Quant Time: Jan 08 03:45:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010219S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 03 05:03:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	68821	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	113262	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	95520	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	42579	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	42877	56.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.66%	
35) Dibromofluoromethane	7.88	113	35252	49.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.74%	
50) Toluene-d8	10.32	98	132367	49.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.84%	
62) 4-Bromofluorobenzene	12.62	95	44032	42.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.74%	

Target Compounds

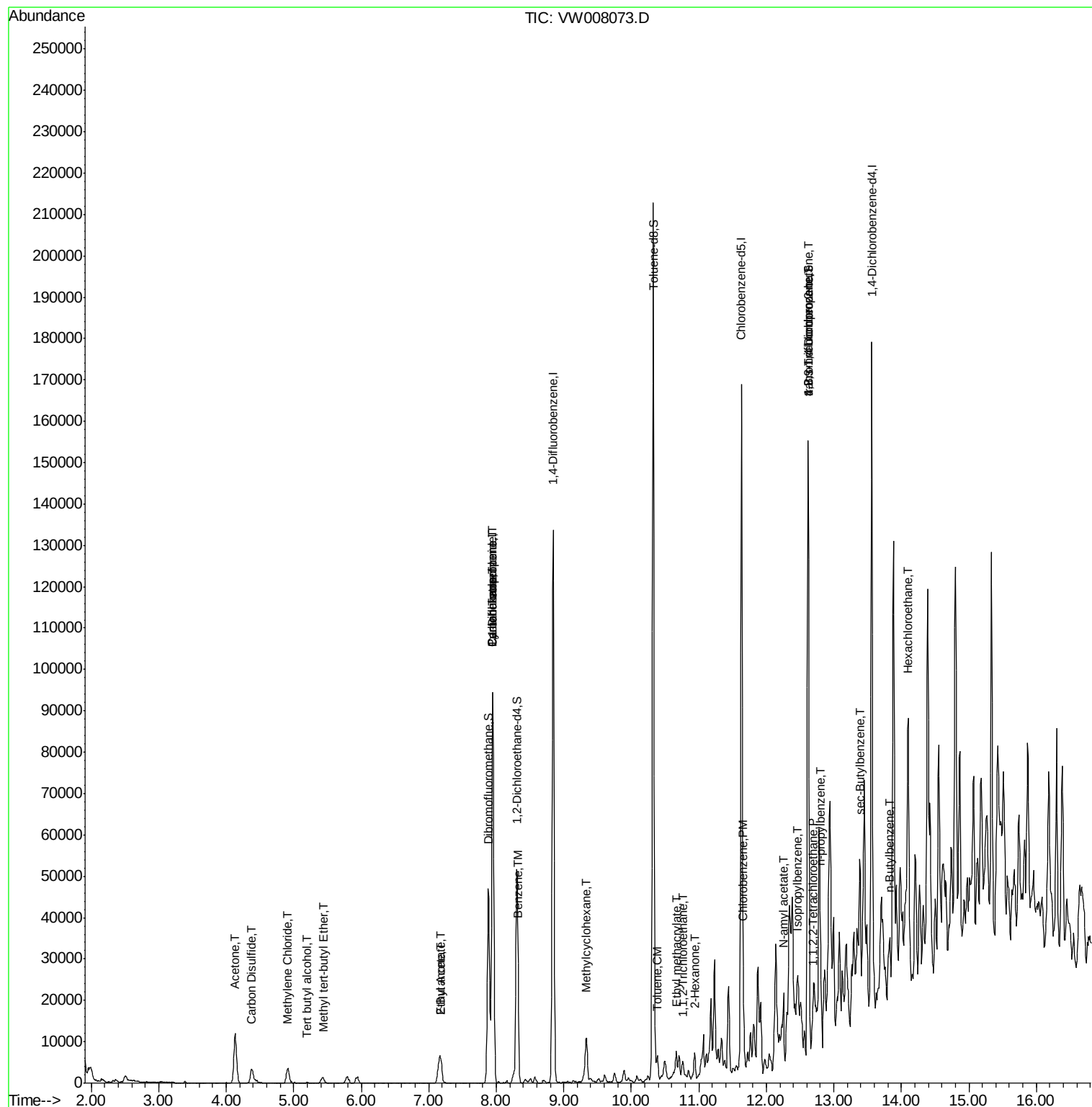
						Qvalue
11) Tert butyl alcohol	5.19	59	244	4.934	ug/l #	71
16) Acetone	4.13	43	22300	189.254	ug/l	96
17) Carbon Disulfide	4.37	76	8261	3.914	ug/l	99
19) Methyl tert-butyl Ether	5.43	73	2255	2.074	ug/l #	83
20) Methylene Chloride	4.92	84	2989	1.823	ug/l	90
25) 2-Butanone	7.18	43	8561	61.665	ug/l	92
31) Cyclohexane	7.95	56	1773	1.524	ug/l #	34
36) 1,1-Dichloropropene	7.95	75	5363	4.800	ug/l #	49
37) Ethyl Acetate	7.18	43	8561	25.509	ug/l #	67
38) Carbon Tetrachloride	7.95	117	7477	5.584	ug/l #	16
39) Methylcyclohexane	9.34	83	4833	3.470	ug/l	92
40) Benzene	8.33	78	4388	1.489	ug/l	93
52) Toluene	10.39	92	2451	1.260	ug/l	89
55) 1,1,2-Trichloroethane	10.76	97	1630	3.228	ug/l #	23
56) Ethyl methacrylate	10.66	69	703	1.231	ug/l #	1
59) 2-Hexanone	10.94	43	1921	8.965	ug/l #	28
65) Chlorobenzene	11.66	112	6608	3.237	ug/l	99
73) Isopropylbenzene	12.47	105	6283	1.856	ug/l	97
74) N-amyl acetate	12.26	43	3795	7.201	ug/l #	41
75) 1,1,2,2-Tetrachloroethane	12.68	83	762	1.769	ug/l #	30
76) 1,2,3-Trichloropropane	12.62	75	23053	68.056	ug/l #	1
78) n-propylbenzene	12.80	91	11900	3.031	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.62	75	23053	160.941	ug/l #	6
85) sec-Butylbenzene	13.38	105	14039	4.002	ug/l	81
89) n-Butylbenzene	13.83	91	6492	2.243	ug/l #	82
90) Hexachloroethane	14.10	117	3113	5.670	ug/l #	12

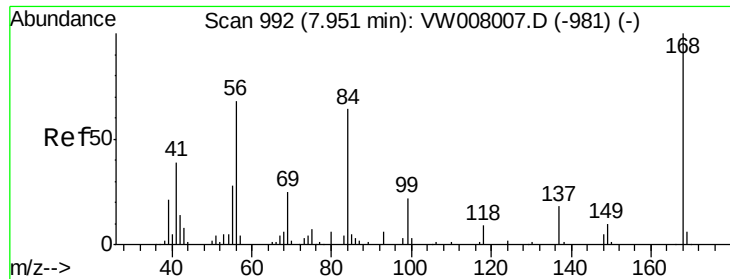
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jan 03 05:03:55 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008073.D

Acq: 07 Jan 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

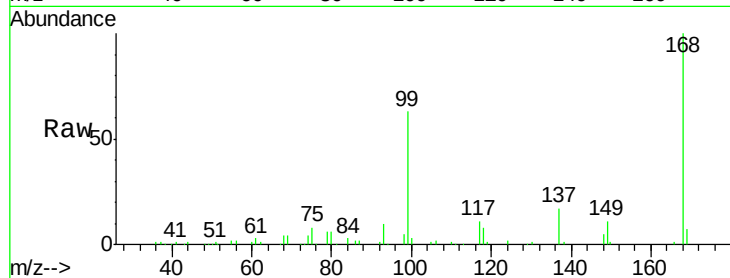
CPSB-17(20-25)

Tot Ion:168 Resp: 68821

Ion Ratio Lower Upper

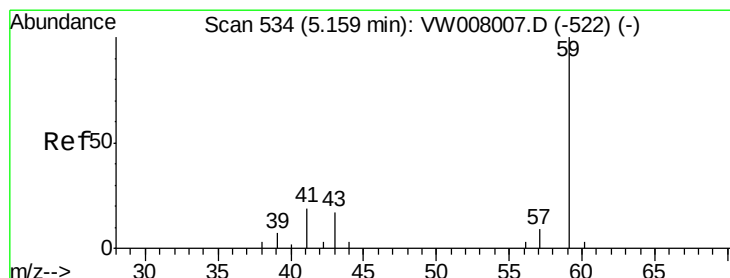
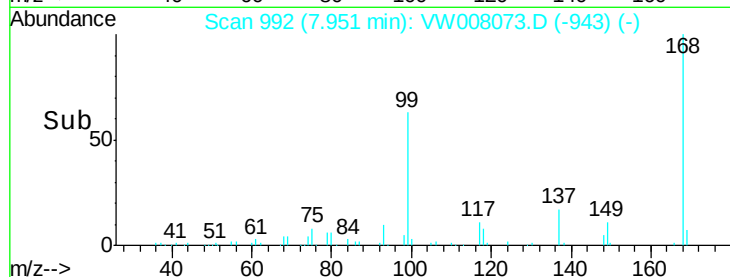
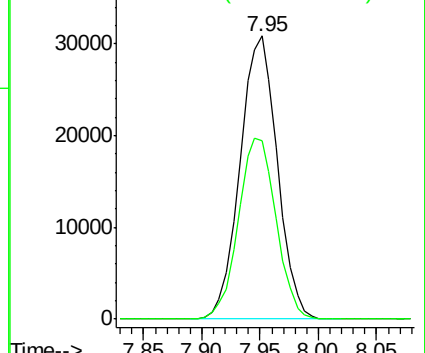
168 100

99 63.0 51.6 77.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 4.934 ug/l

RT: 5.19 min Scan# 539

Delta R.T. 0.03 min

Lab File: VW008073.D

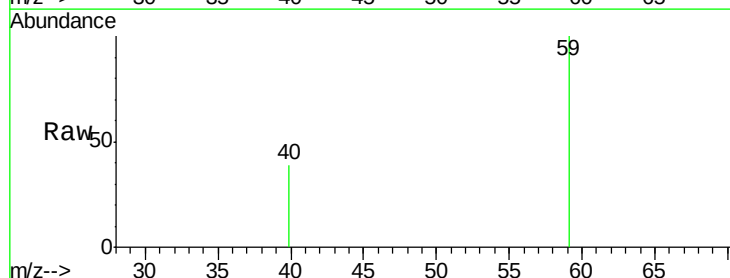
Acq: 07 Jan 2019 16:48

Tgt Ion: 59 Resp: 244

Ion Ratio Lower Upper

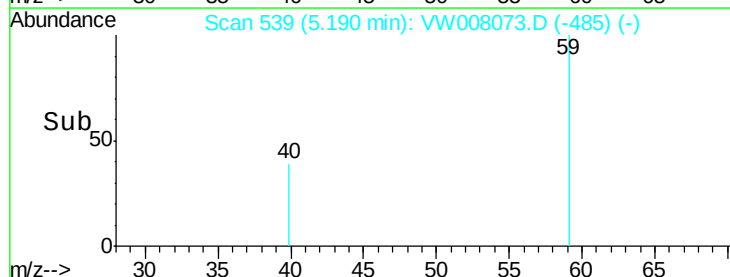
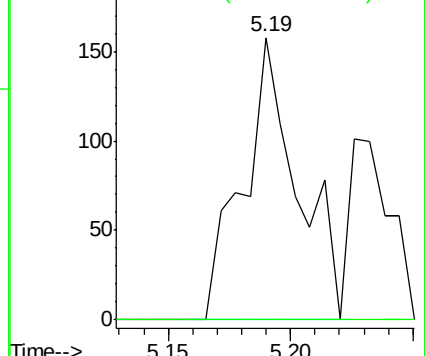
59 100

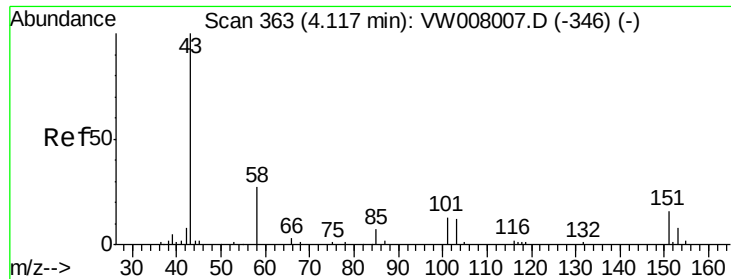
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

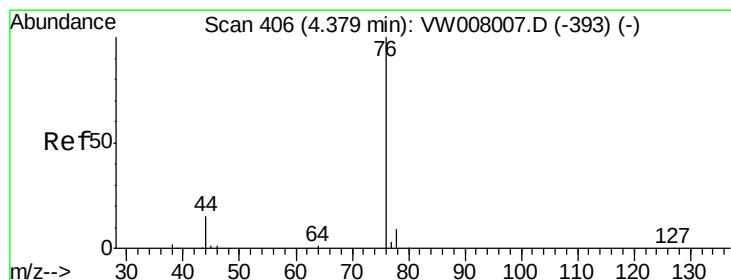
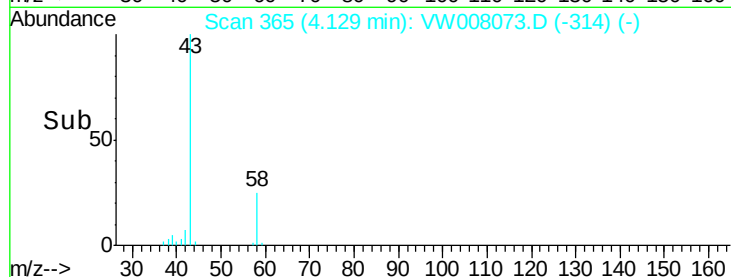
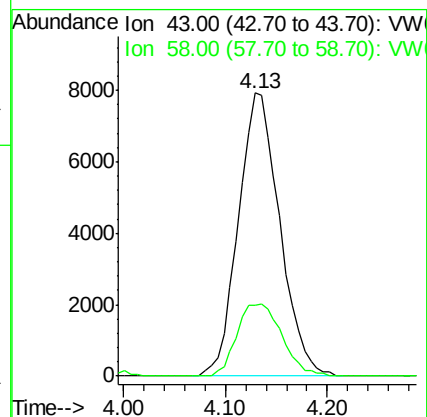
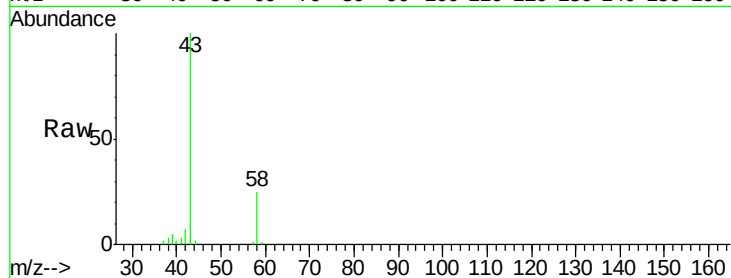




#16
Acetone
Concen: 189.254 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW008073.D
Acq: 07 Jan 2019 16:48

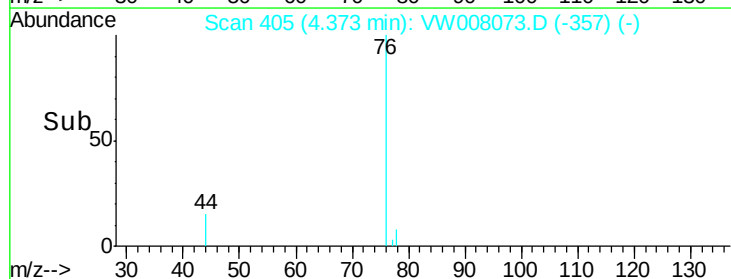
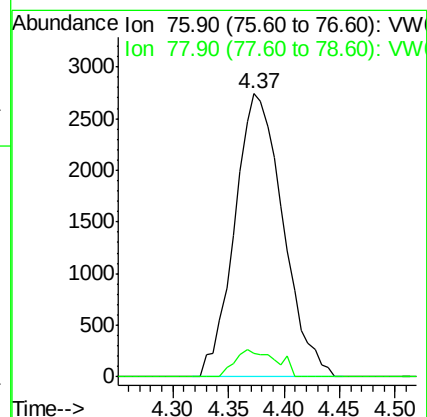
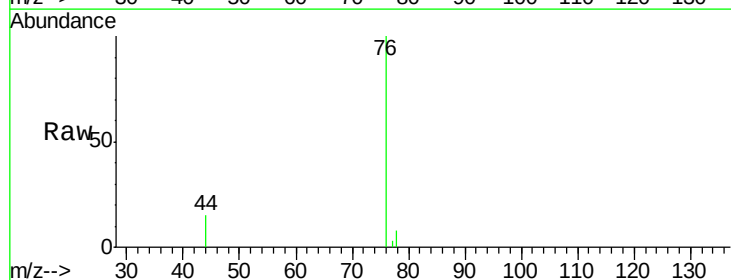
Instrument :
MSVOA_W
ClientSampleId :
CPSB-17(20-25)

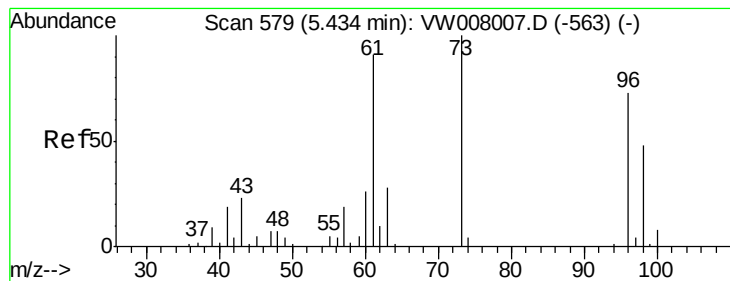
Tot Ion: 43 Resp: 22300
Ion Ratio Lower Upper
43 100
58 25.2 21.7 32.5



#17
Carbon Disulfide
Concen: 3.914 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.01 min
Lab File: VW008073.D
Acq: 07 Jan 2019 16:48

Tgt Ion: 76 Resp: 8261
Ion Ratio Lower Upper
76 100
78 8.4 7.0 10.4



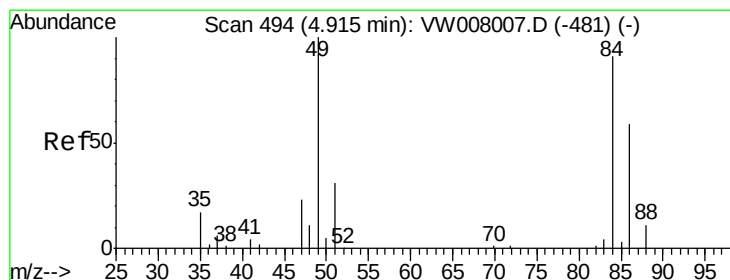
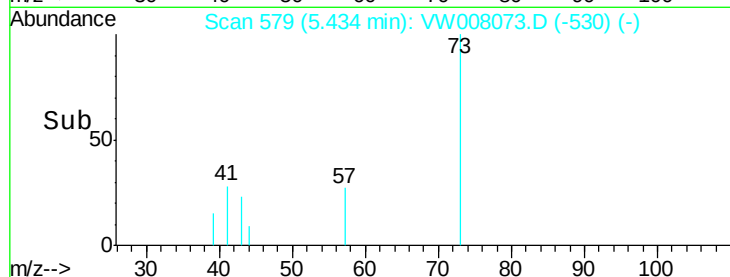
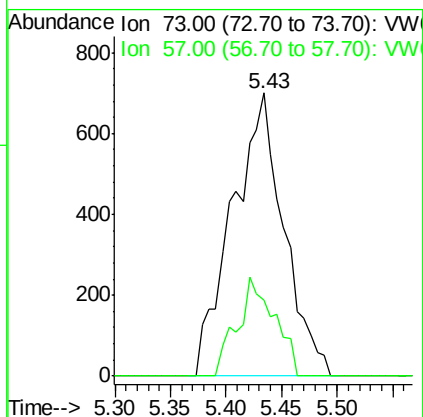
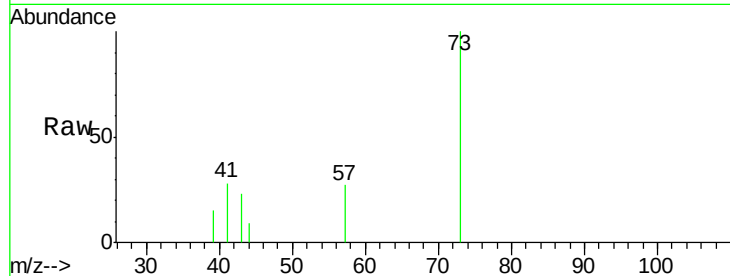


#19

Methyl tert-butyl Ether
 Concen: 2.074 ug/l
 RT: 5.43 min Scan# 579
 Delta R.T. 0.00 min
 Lab File: VW008073.D
 Acq: 07 Jan 2019 16:48

Instrument :
 MSVOA_W
 ClientSampleId :
 CPSB-17(20-25)

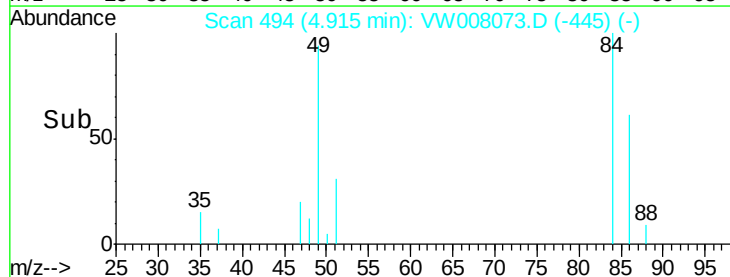
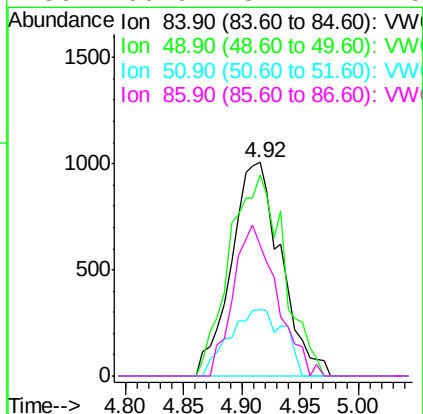
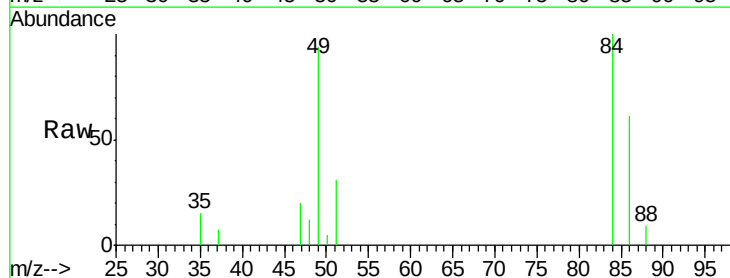
Tot Ion: 73 Resp: 2255
 Ion Ratio Lower Upper
 73 100
 57 26.7 15.4 23.0#

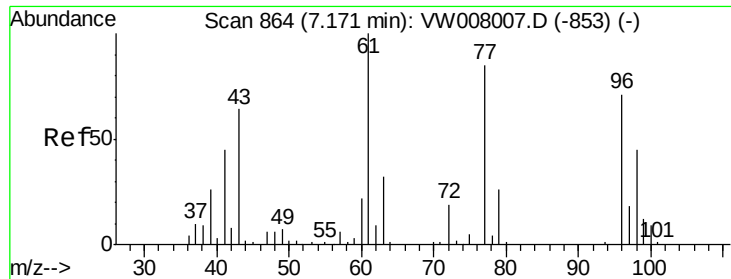


#20

Methylene Chloride
 Concen: 1.823 ug/l
 RT: 4.92 min Scan# 494
 Delta R.T. 0.00 min
 Lab File: VW008073.D
 Acq: 07 Jan 2019 16:48

Tgt Ion: 84 Resp: 2989
 Ion Ratio Lower Upper
 84 100
 49 94.2 87.7 131.5
 51 31.1 27.3 40.9
 86 60.9 51.4 77.0





#25

2-Butanone

Concen: 61.665 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW008073.D

Acq: 07 Jan 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

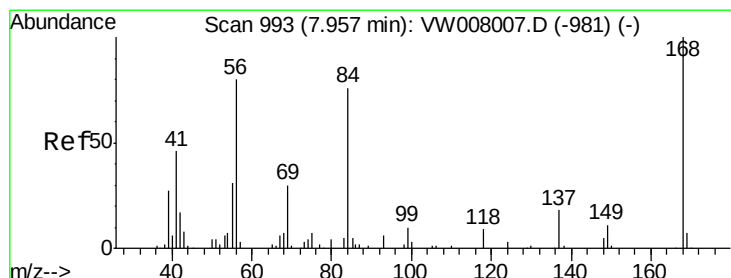
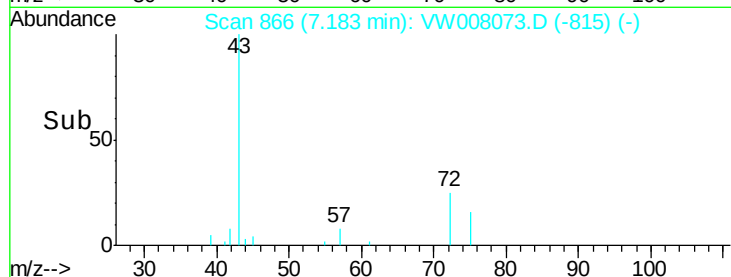
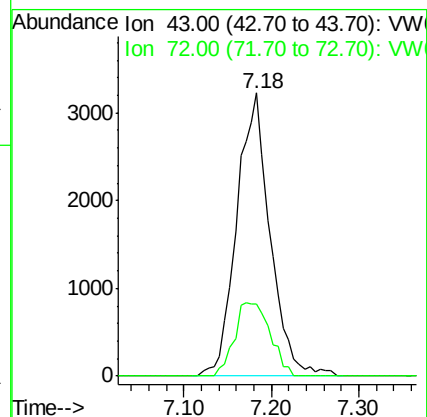
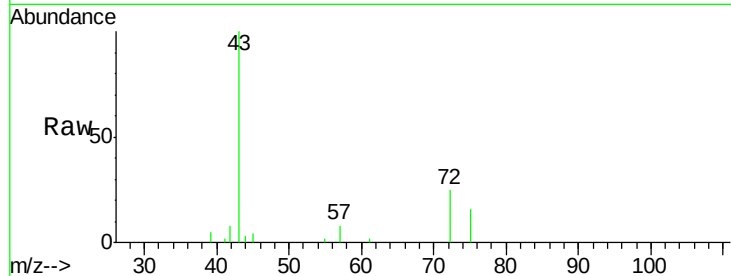
CPSB-17(20-25)

Tot Ion: 43 Resp: 8561

Ion Ratio Lower Upper

43 100

72 25.4 23.8 35.8



#31

Cyclohexane

Concen: 1.524 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW008073.D

Acq: 07 Jan 2019 16:48

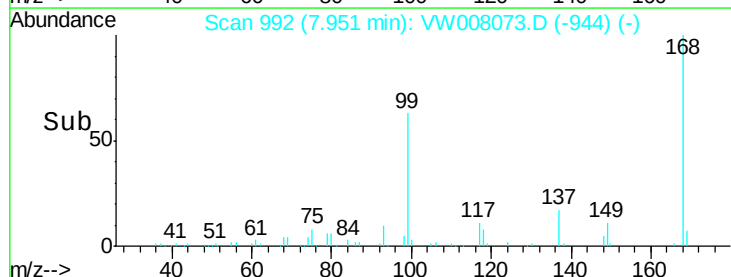
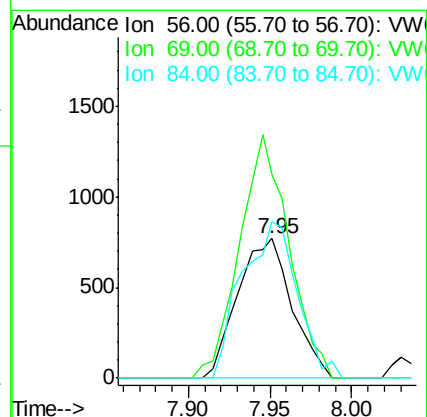
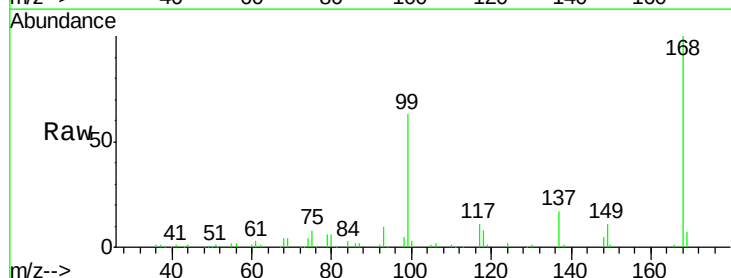
Tgt Ion: 56 Resp: 1773

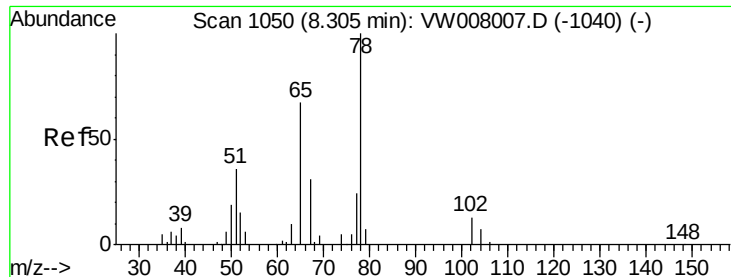
Ion Ratio Lower Upper

56 100

69 146.7 29.8 44.6#

84 112.4 75.2 112.8





#33

1,2-Dichloroethane-d4

Concen: 56.328 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008073.D

Acq: 07 Jan 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

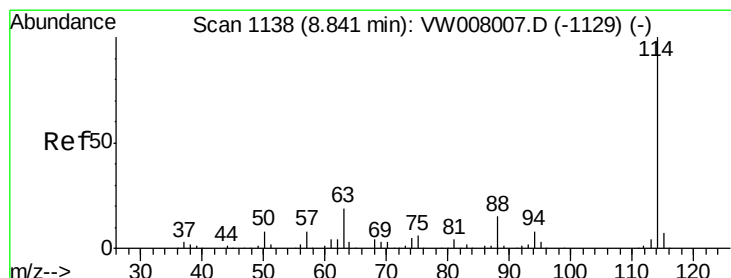
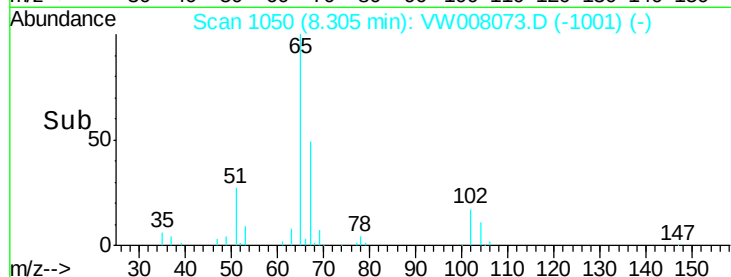
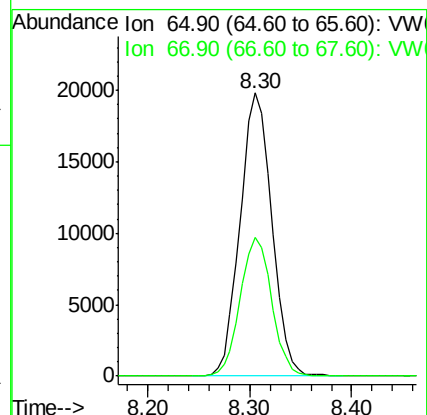
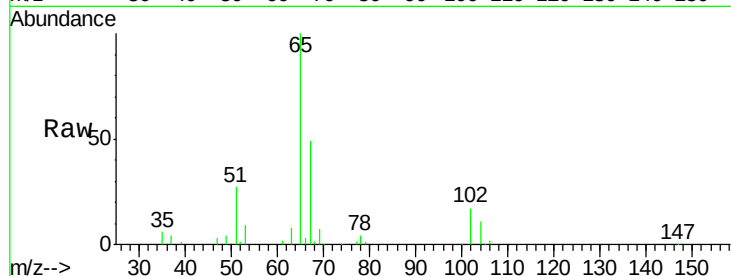
CPSB-17(20-25)

Tot Ion: 65 Resp: 42877

Ion Ratio Lower Upper

65 100

67 48.5 0.0 94.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008073.D

Acq: 07 Jan 2019 16:48

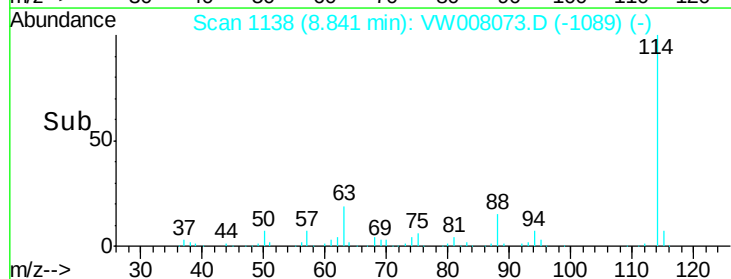
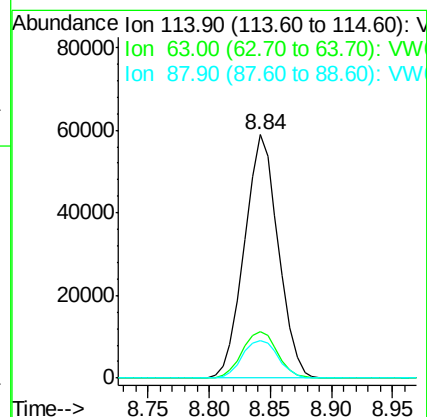
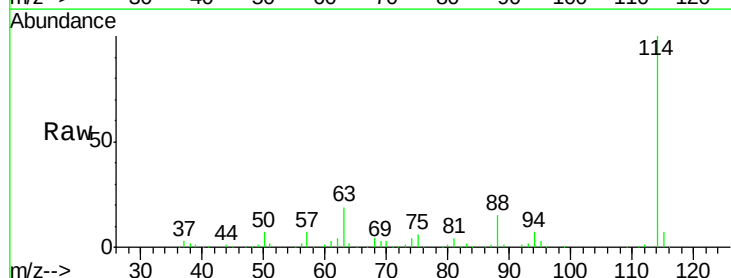
Tgt Ion: 114 Resp: 113262

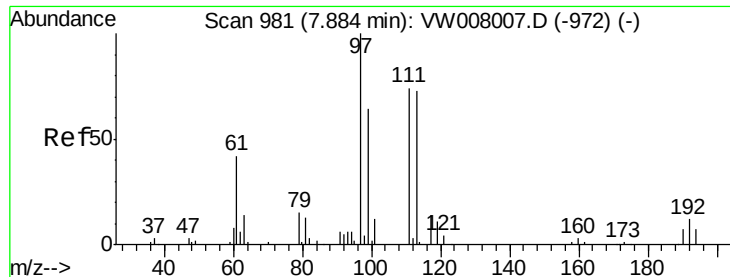
Ion Ratio Lower Upper

114 100

63 19.3 0.0 37.8

88 15.5 0.0 31.0





#35

Dibromofluoromethane

Concen: 49.372 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008073.D

Acq: 07 Jan 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

CPSB-17(20-25)

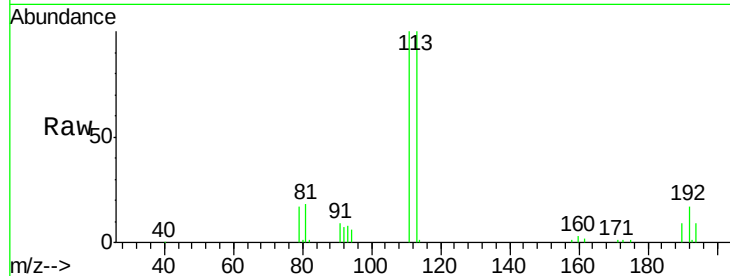
Tot Ion:113 Resp: 35252

Ion Ratio Lower Upper

113 100

111 102.9 81.4 122.0

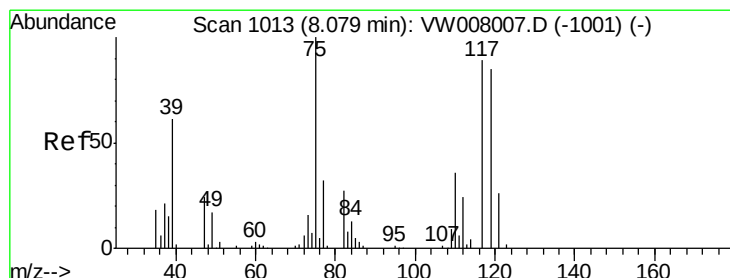
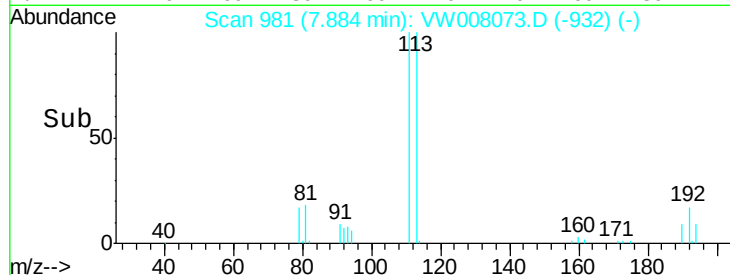
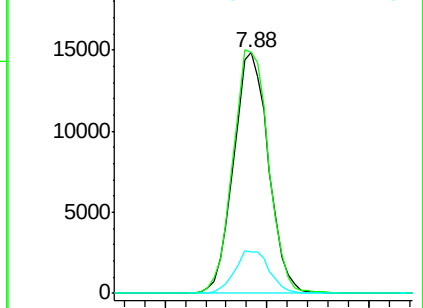
192 17.6 14.8 22.2



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: 4.800 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW008073.D

Acq: 07 Jan 2019 16:48

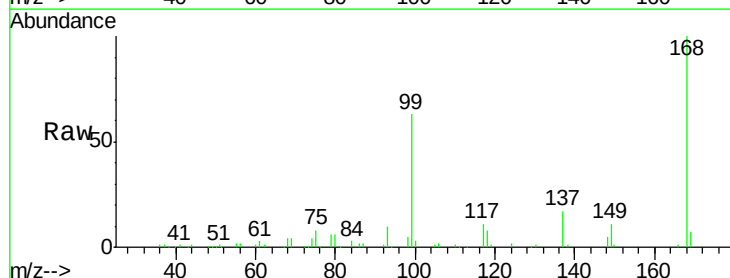
Tgt Ion: 75 Resp: 5363

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.3#

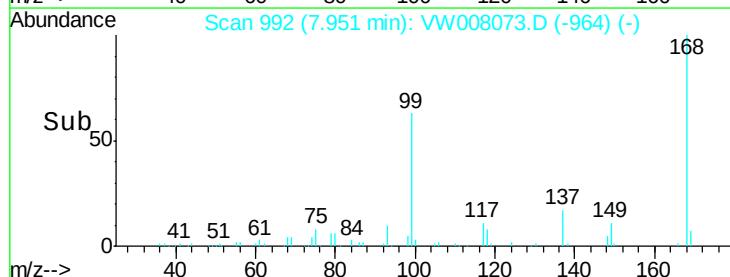
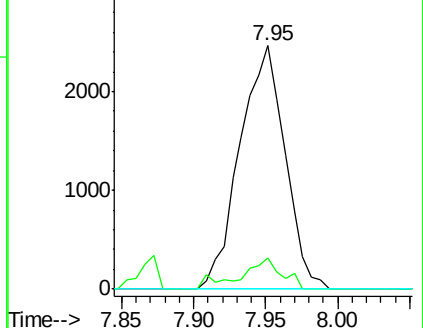
77 0.0 25.3 37.9#

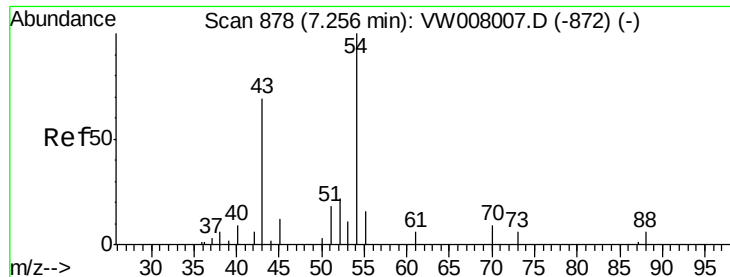


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

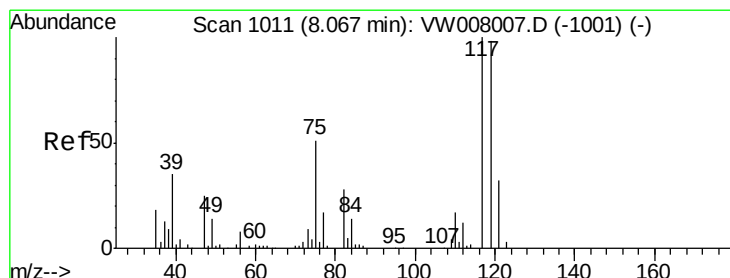
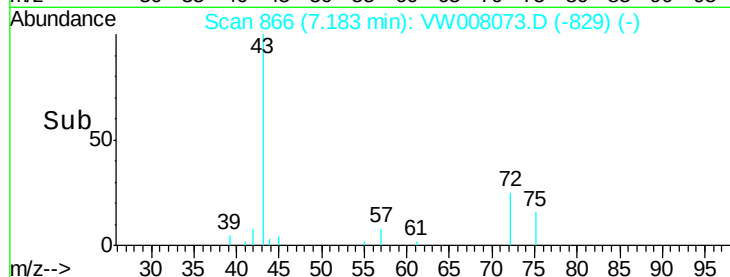
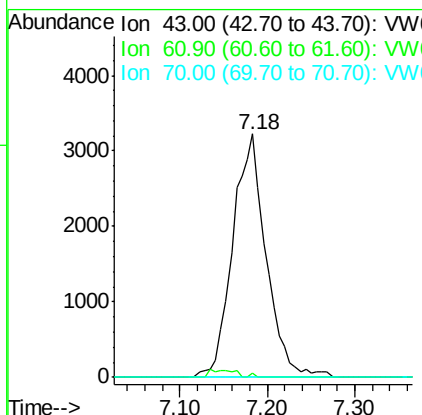
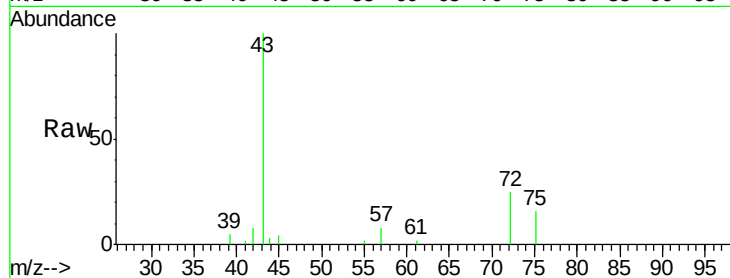




#37
Ethyl Acetate
Concen: 25.509 ug/l
RT: 7.18 min Scan# 866
Delta R.T. -0.07 min
Lab File: VW008073.D
Acq: 07 Jan 2019 16:48

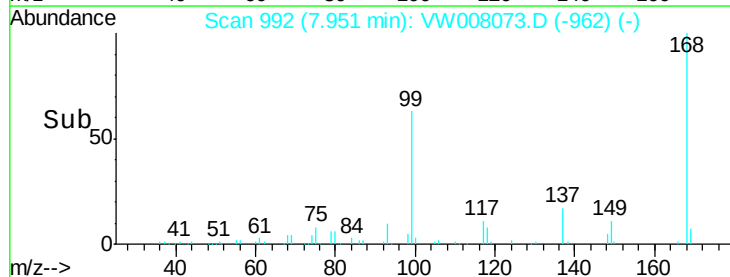
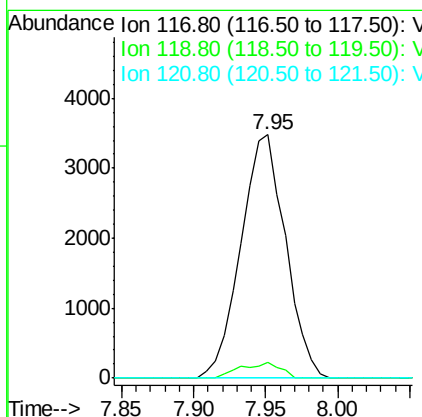
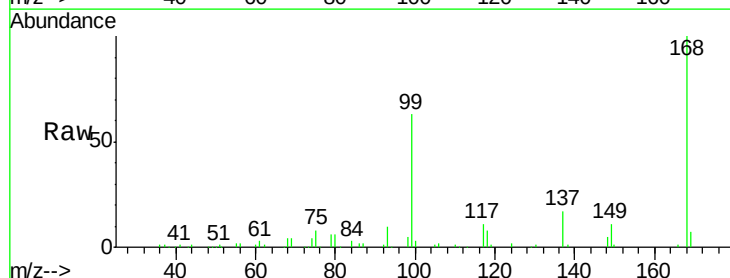
Instrument :
MSVOA_W
ClientSampleId :
CPSB-17(20-25)

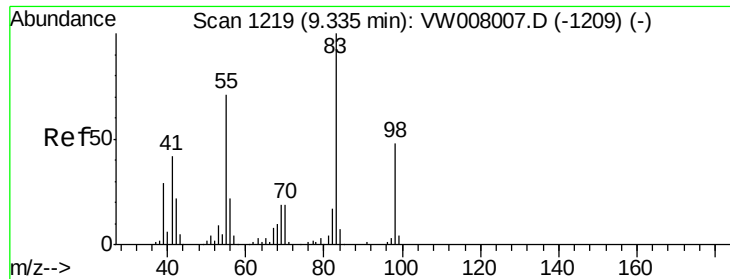
Tot Ion: 43 Resp: 8561
Ion Ratio Lower Upper
43 100
61 0.2 11.4 17.2#
70 0.0 9.4 14.0#



#38
Carbon Tetrachloride
Concen: 5.584 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW008073.D
Acq: 07 Jan 2019 16:48

Tgt Ion: 117 Resp: 7477
Ion Ratio Lower Upper
117 100
119 6.4 78.7 118.1#
121 0.0 25.8 38.8#

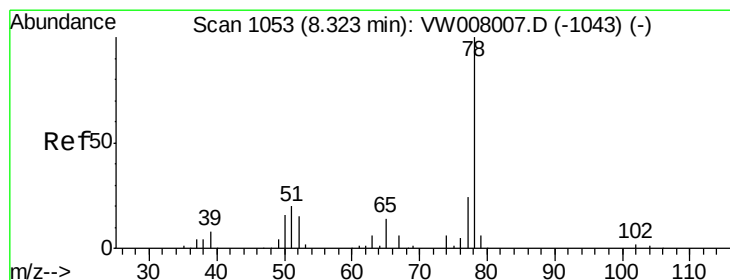
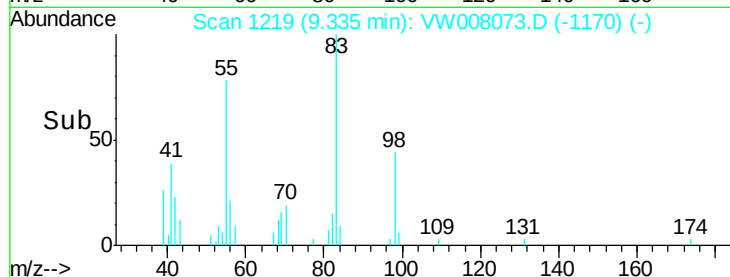
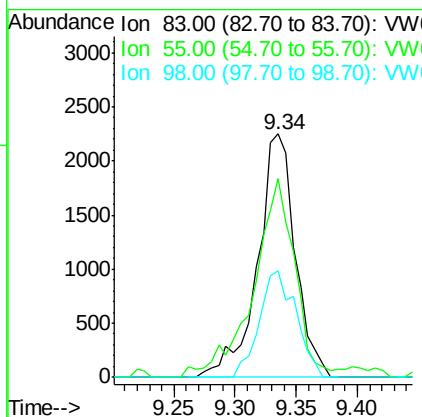
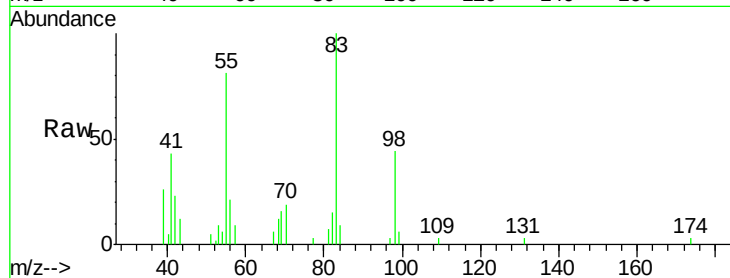




#39
Methylvlcyclohexane
Concen: 3.470 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW008073.D
Acq: 07 Jan 2019 16:48

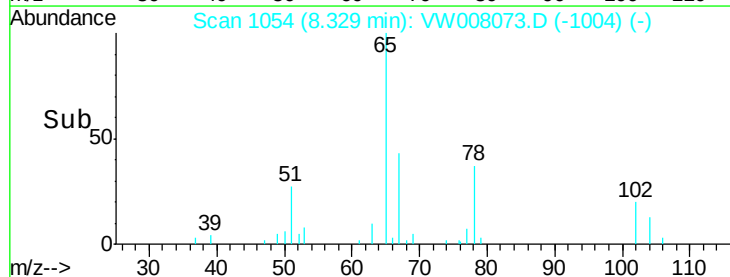
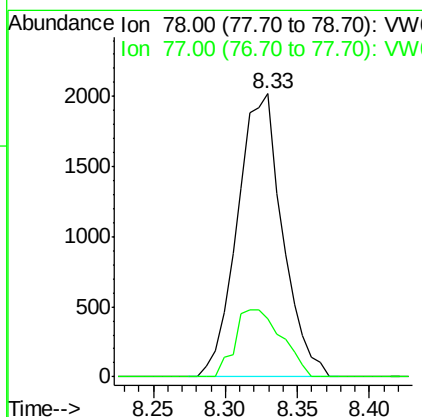
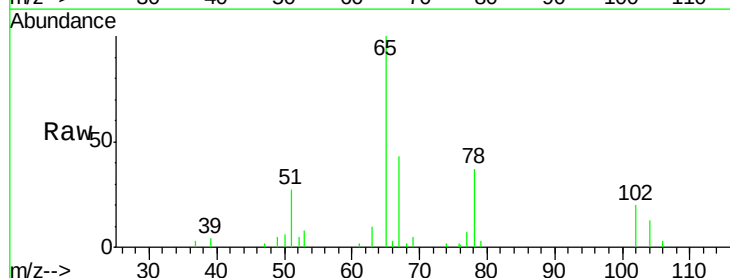
Instrument :
MSVOA_W
ClientSampleId :
CPSB-17(20-25)

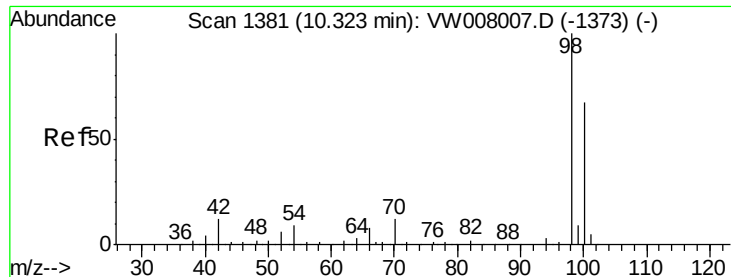
Tot Ion: 83 Resp: 4833
Ion Ratio Lower Upper
83 100
55 78.1 56.8 85.2
98 43.7 38.6 58.0



#40
Benzene
Concen: 1.489 ug/l
RT: 8.33 min Scan# 1054
Delta R.T. 0.01 min
Lab File: VW008073.D
Acq: 07 Jan 2019 16:48

Tgt Ion: 78 Resp: 4388
Ion Ratio Lower Upper
78 100
77 20.4 19.0 28.6





#50

Toluene-d8

Concen: 49.420 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008073.D

Acq: 07 Jan 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

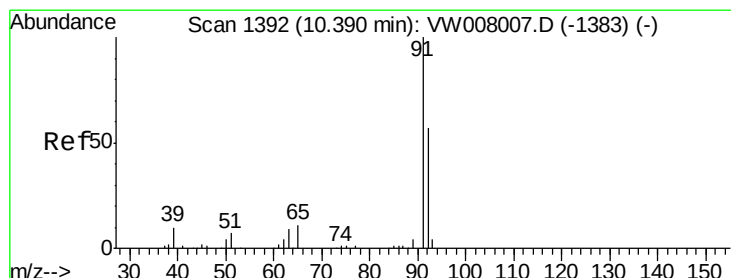
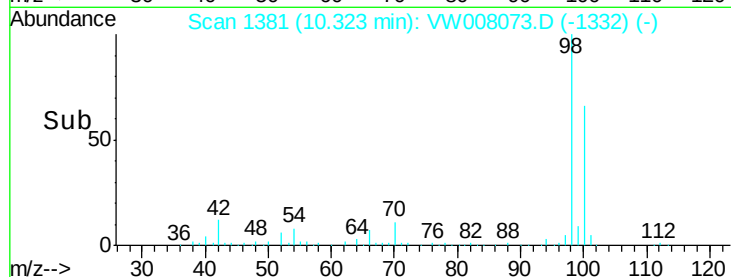
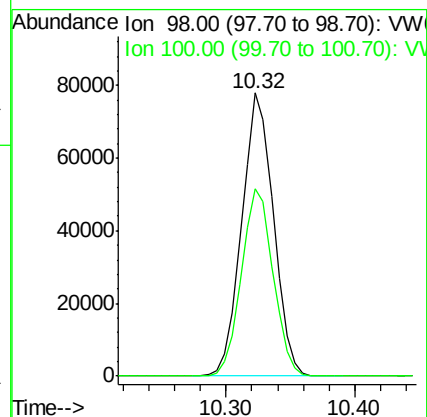
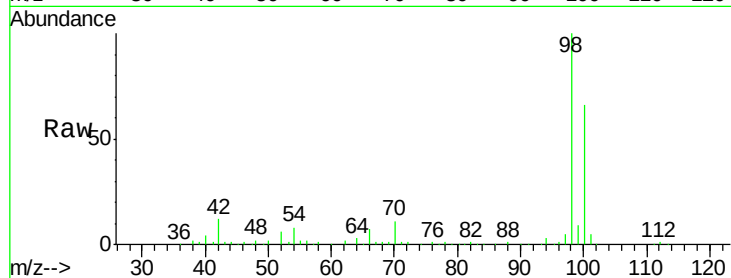
CPSB-17(20-25)

Tot Ion: 98 Resp: 132367

Ion Ratio Lower Upper

98 100

100 66.2 52.9 79.3



#52

Toluene

Concen: 1.260 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW008073.D

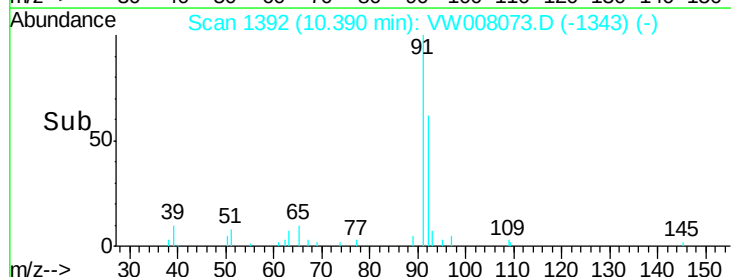
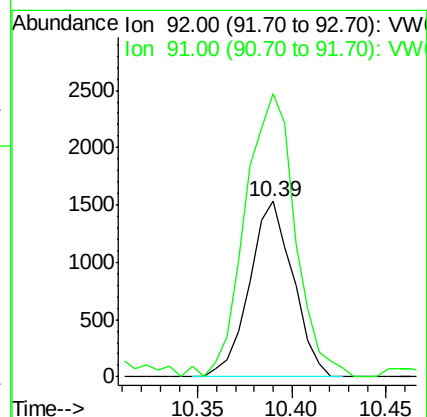
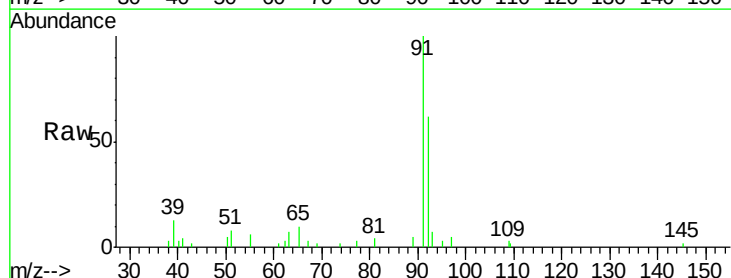
Acq: 07 Jan 2019 16:48

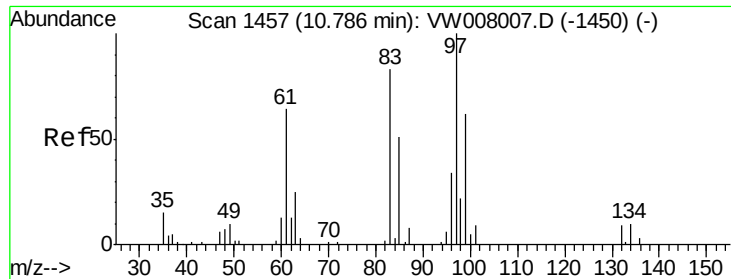
Tgt Ion: 92 Resp: 2451

Ion Ratio Lower Upper

92 100

91 186.3 136.9 205.3

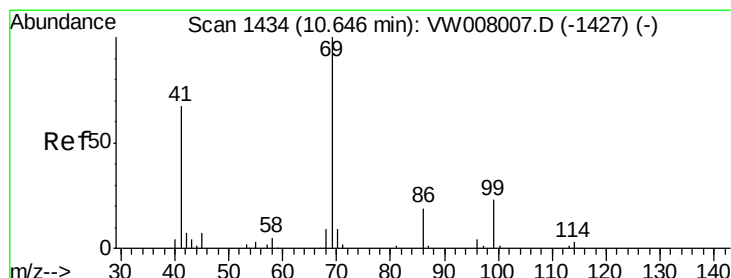
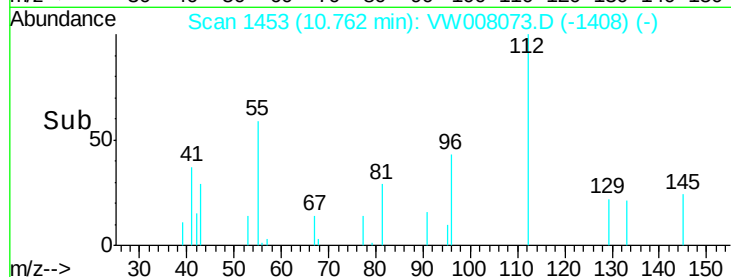
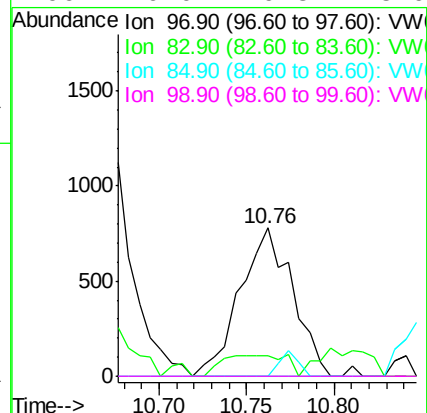
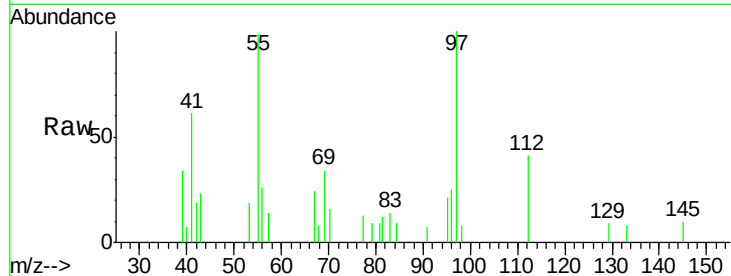




#55
1,1,2-Trichloroethane
Concen: 3.228 ug/l
RT: 10.76 min Scan# 1453
Delta R.T. -0.02 min
Lab File: VW008073.D
Acq: 07 Jan 2019 16:48

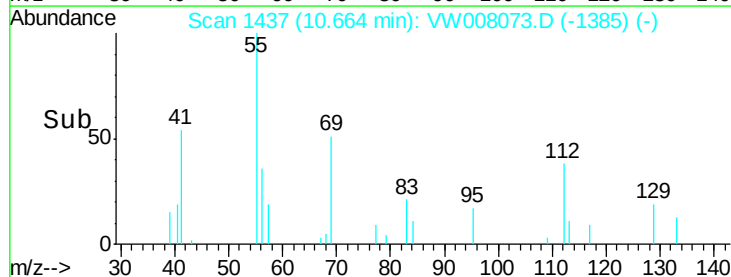
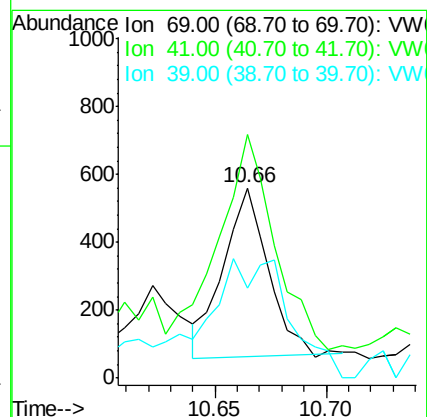
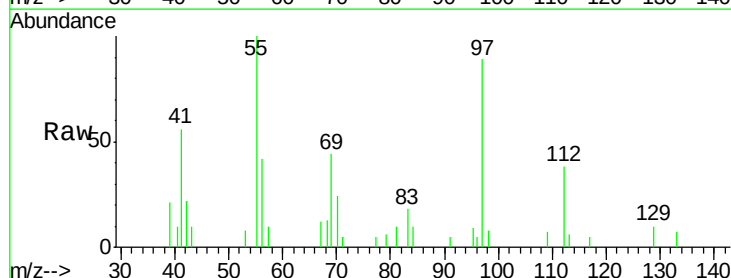
Instrument :
MSVOA_W
ClientSampleId :
CPSB-17(20-25)

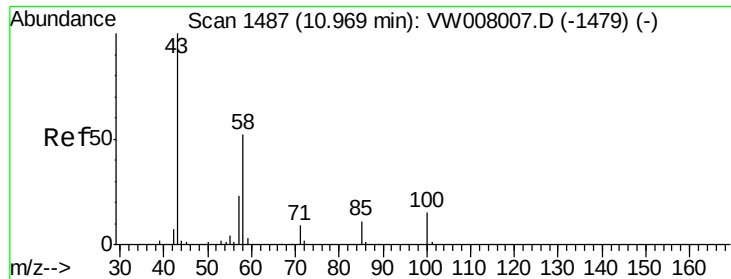
Tot Ion: 97 Resp: 1630
Ion Ratio Lower Upper
97 100
83 13.7 66.2 99.2#
85 0.0 41.0 61.4#
99 0.0 49.3 73.9#



#56
Ethyl methacrylate
Concen: 1.231 ug/l
RT: 10.66 min Scan# 1437
Delta R.T. 0.02 min
Lab File: VW008073.D
Acq: 07 Jan 2019 16:48

Tgt Ion: 69 Resp: 703
Ion Ratio Lower Upper
69 100
41 157.0 52.6 79.0#
39 124.3 35.8 53.6#

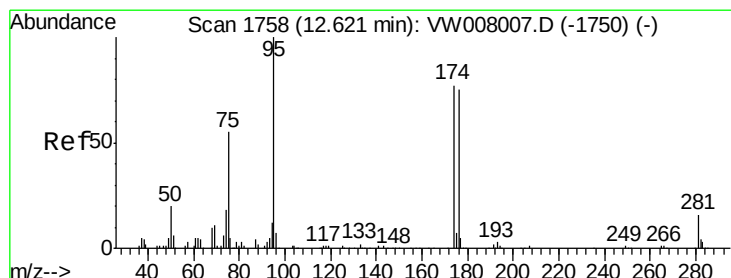
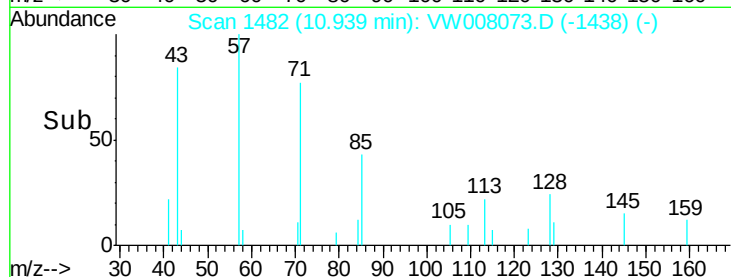
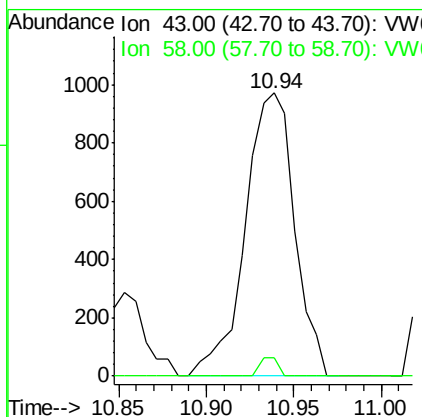
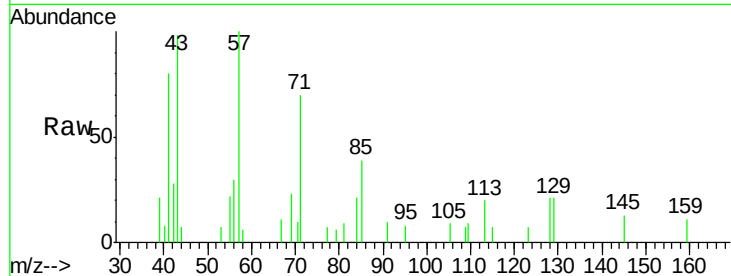




#59
2-Hexanone
Concen: 8.965 ug/l
RT: 10.94 min Scan# 1482
Delta R.T. -0.03 min
Lab File: VW008073.D
Acq: 07 Jan 2019 16:48

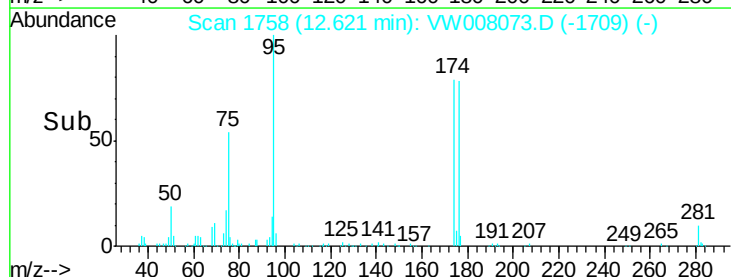
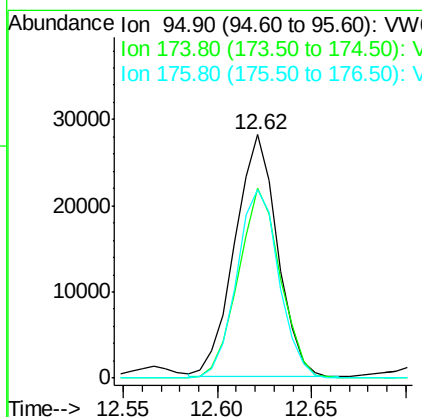
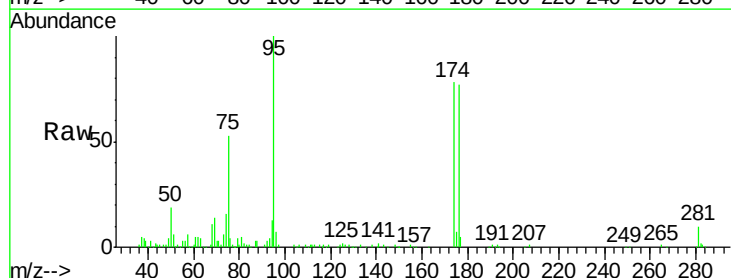
Instrument :
MSVOA_W
ClientSampleId :
CPSB-17(20-25)

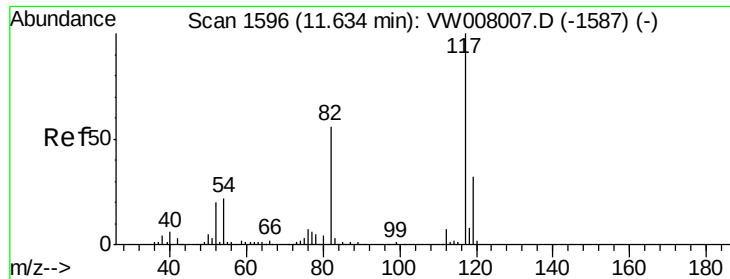
Tot Ion: 43 Resp: 1921
Ion Ratio Lower Upper
43 100
58 2.4 27.1 81.2#



#62
4-Bromofluorobenzene
Concen: 42.866 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW008073.D
Acq: 07 Jan 2019 16:48

Tgt Ion: 95 Resp: 44032
Ion Ratio Lower Upper
95 100
174 77.5 0.0 149.6
176 77.1 0.0 145.4

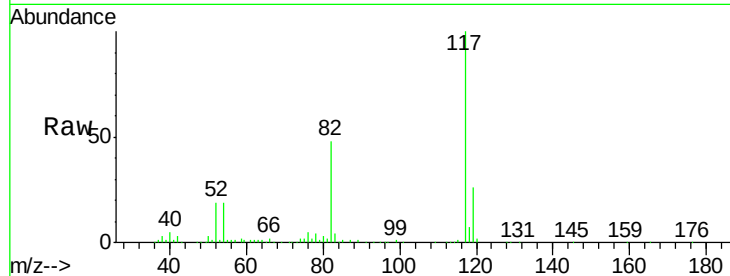




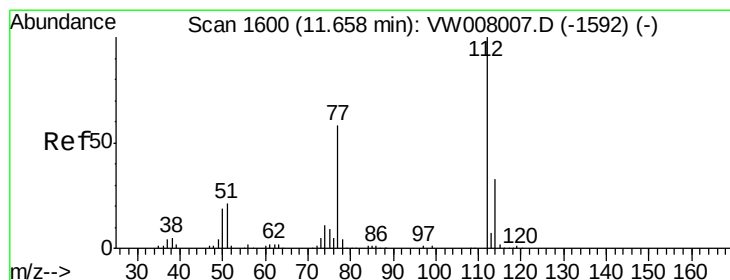
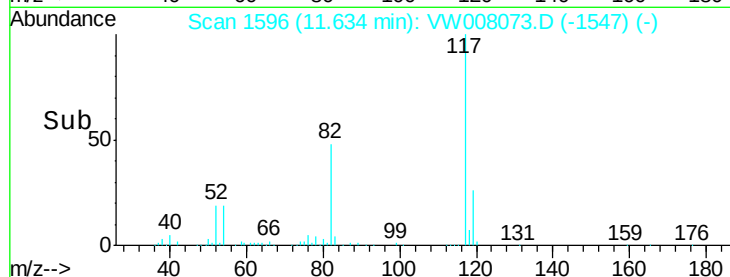
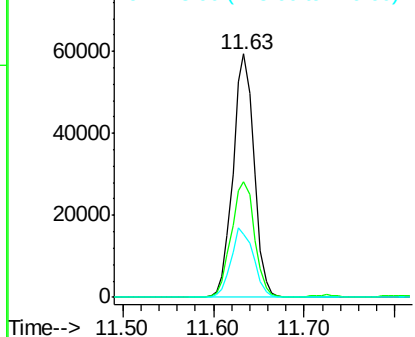
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008073.D
Acq: 07 Jan 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
CPSB-17(20-25)

Tot Ion:117 Resp: 95520
Ion Ratio Lower Upper
117 100
82 47.2 44.8 67.2
119 25.7 25.6 38.4

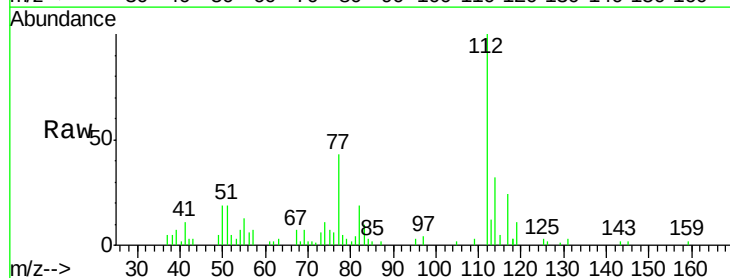


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

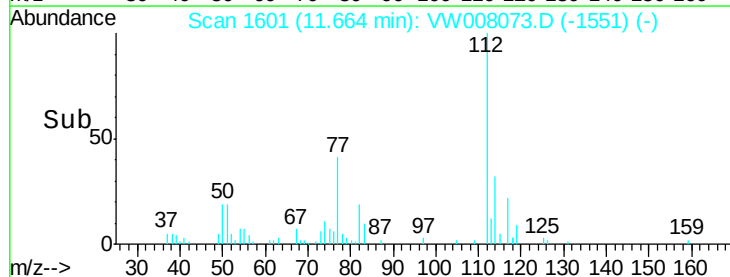
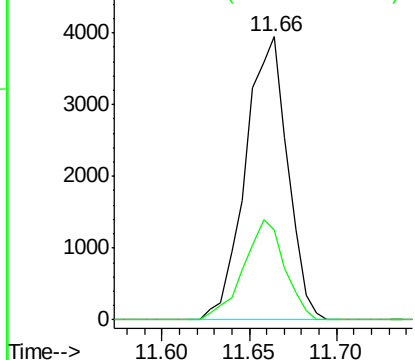


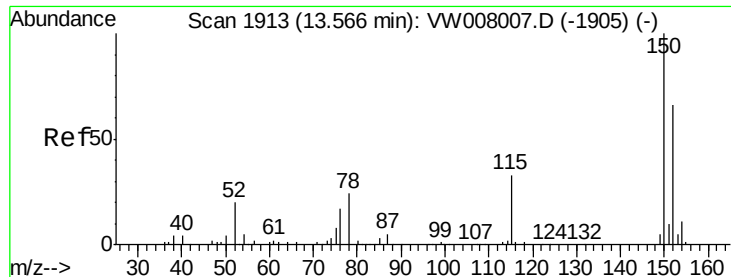
#65
Chlorobenzene
Concen: 3.237 ug/l
RT: 11.66 min Scan# 1601
Delta R.T. 0.01 min
Lab File: VW008073.D
Acq: 07 Jan 2019 16:48

Tgt Ion:112 Resp: 6608
Ion Ratio Lower Upper
112 100
114 31.7 26.0 39.0



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.01 min

Lab File: VW008073.D

Acq: 07 Jan 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

CPSB-17(20-25)

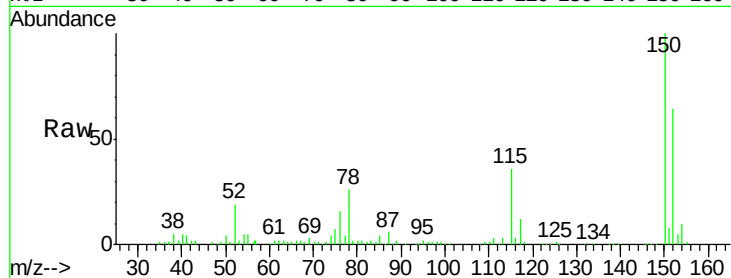
Tot Ion:152 Resp: 42579

Ion Ratio Lower Upper

152 100

115 60.8 32.1 96.5

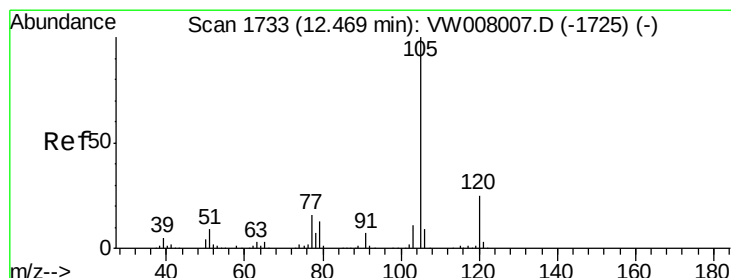
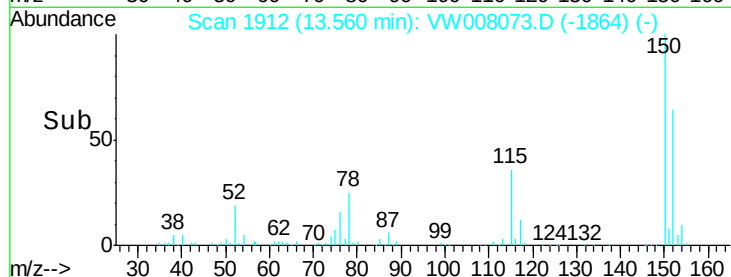
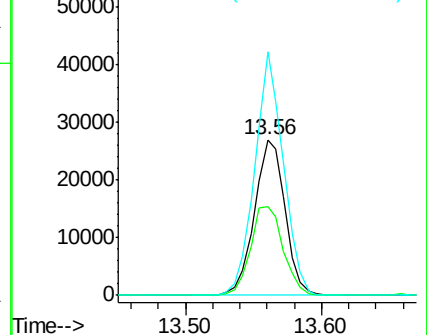
150 145.8 0.0 345.0



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



#73

Isopropylbenzene

Concen: 1.856 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW008073.D

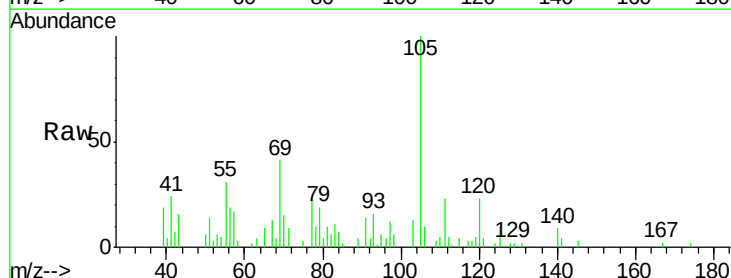
Acq: 07 Jan 2019 16:48

Tgt Ion:105 Resp: 6283

Ion Ratio Lower Upper

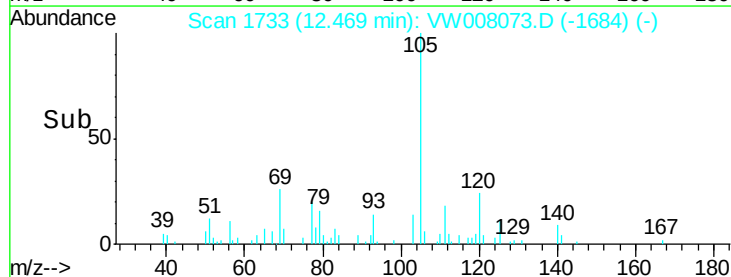
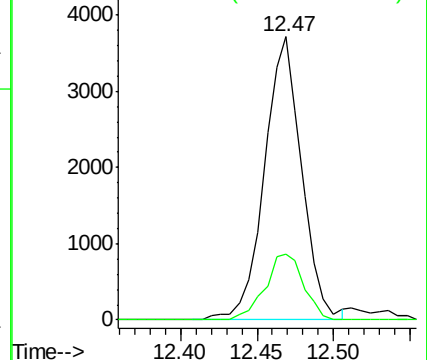
105 100

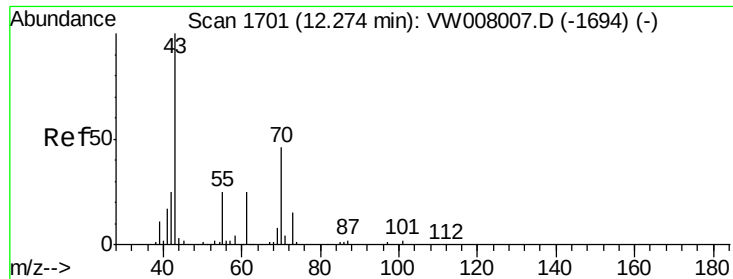
120 23.9 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 7.201 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW008073.D

Acq: 07 Jan 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

CPSB-17(20-25)

Tot Ion: 43 Resp: 3795

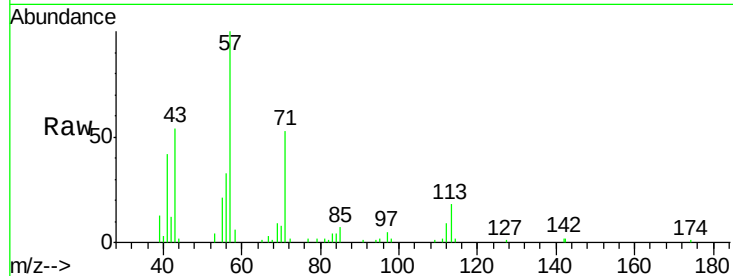
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 0.0 21.4 32.0#

61 0.0 19.4 29.0#

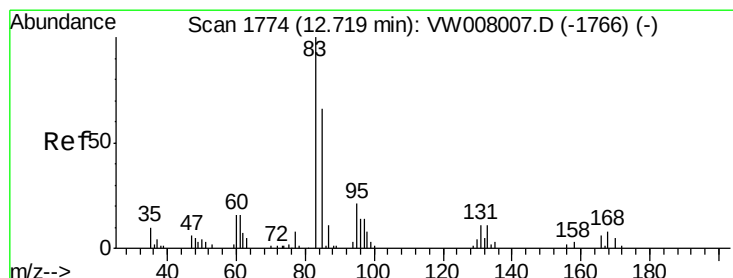
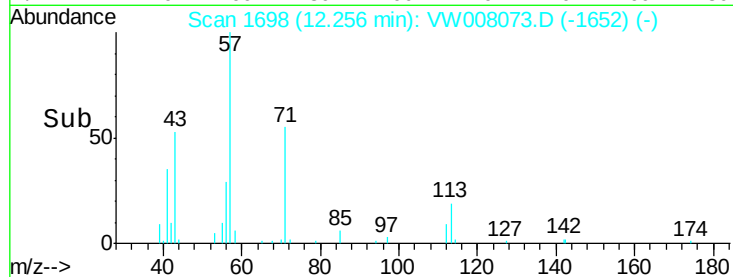
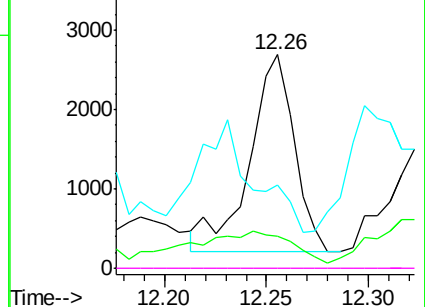


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 1.769 ug/l

RT: 12.68 min Scan# 1768

Delta R.T. -0.04 min

Lab File: VW008073.D

Acq: 07 Jan 2019 16:48

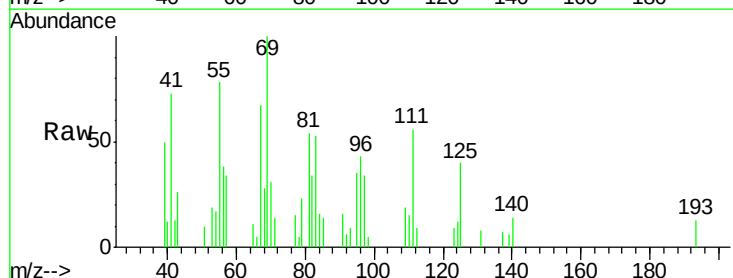
Tgt Ion: 83 Resp: 762

Ion Ratio Lower Upper

83 100

131 15.1 6.5 19.5

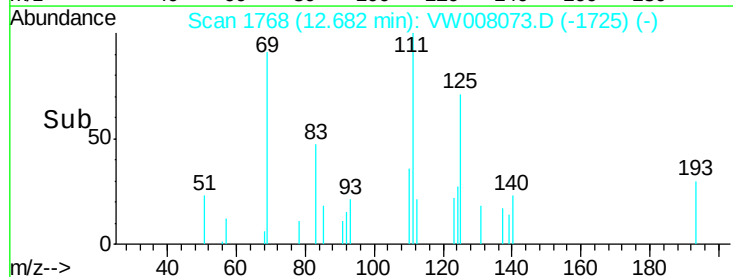
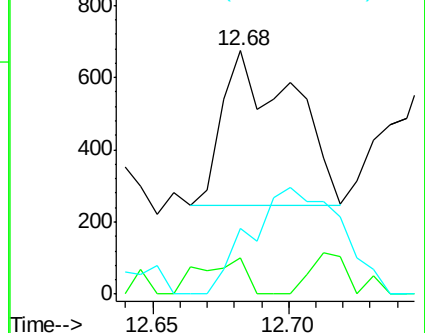
85 0.0 32.8 98.3#

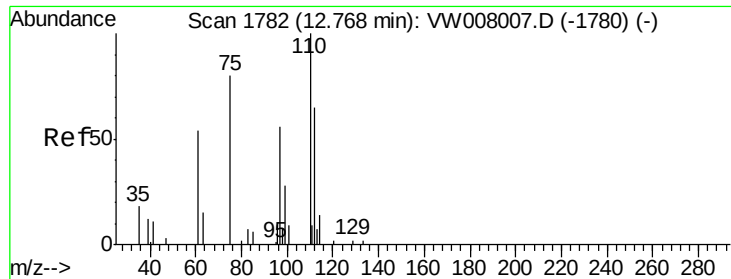


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 68.056 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008073.D

Acq: 07 Jan 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

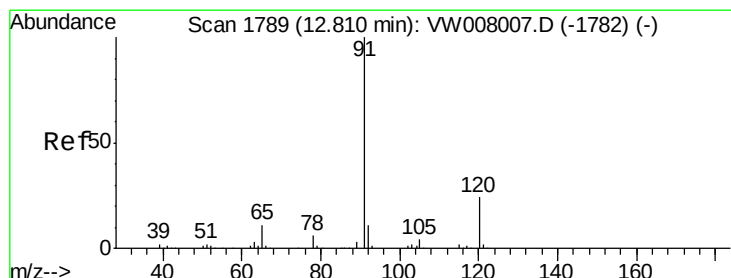
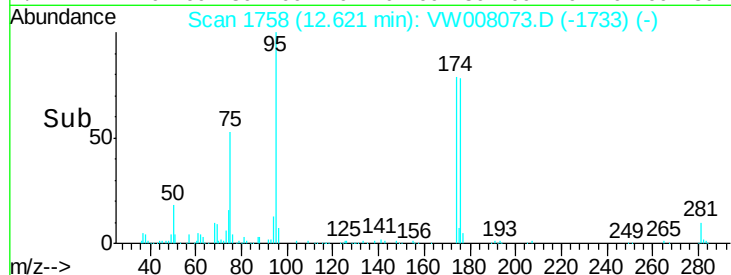
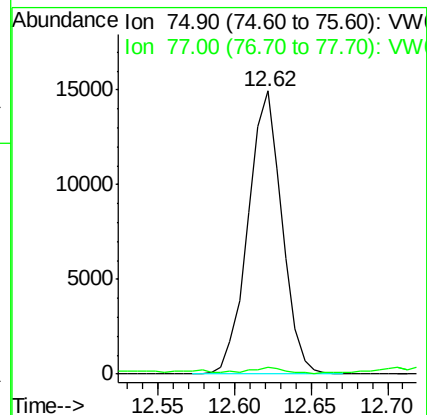
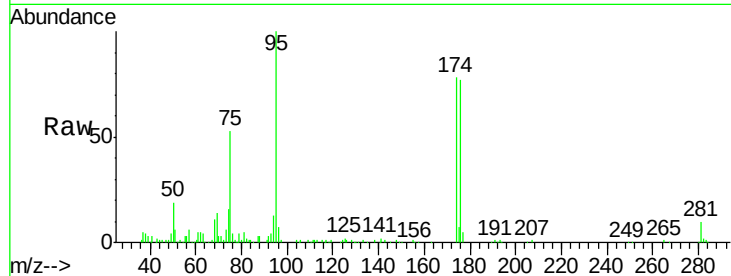
CPSB-17(20-25)

Tot Ion: 75 Resp: 23053

Ion Ratio Lower Upper

75 100

77 2.6 186.2 558.6#



#78

n-propylbenzene

Concen: 3.031 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.01 min

Lab File: VW008073.D

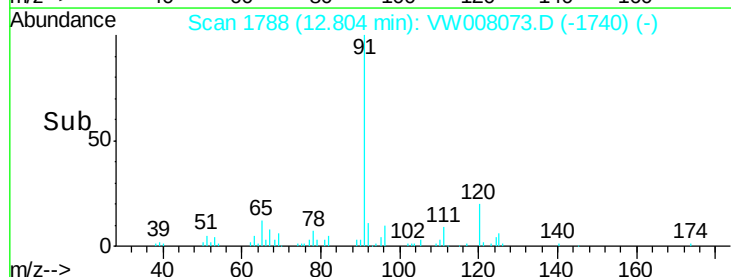
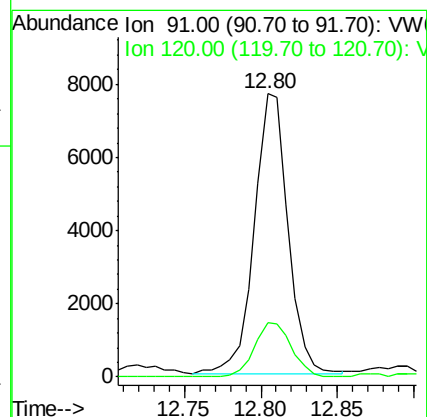
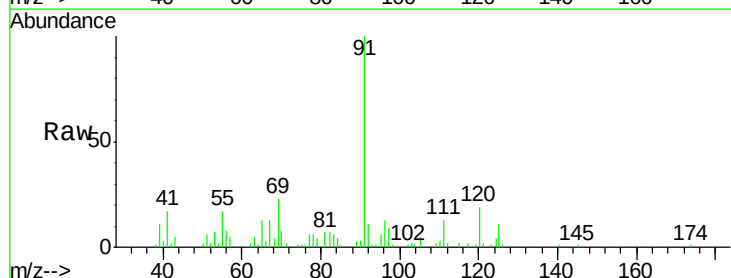
Acq: 07 Jan 2019 16:48

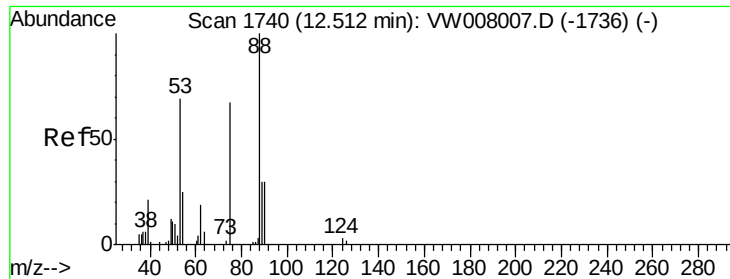
Tgt Ion: 91 Resp: 11900

Ion Ratio Lower Upper

91 100

120 20.9 11.5 34.5





#81

trans-1,4-Dichloro-2-butene

Concen: 160.941 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008073.D

Acq: 07 Jan 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

CPSB-17(20-25)

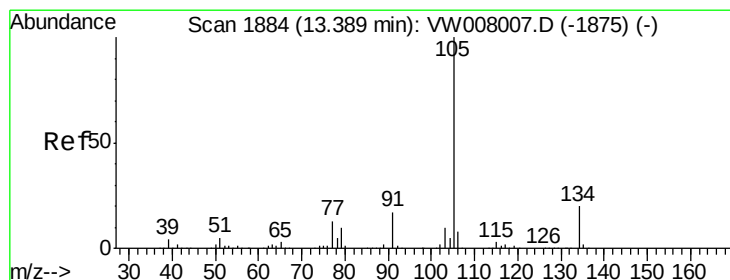
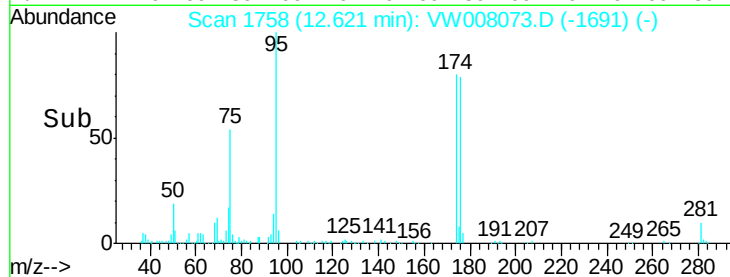
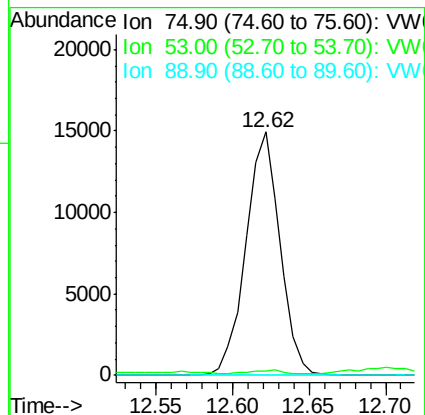
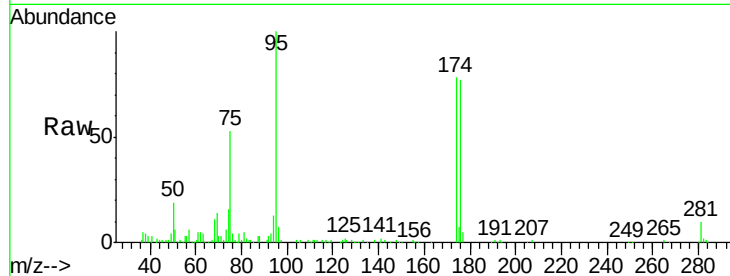
Tot Ion: 75 Resp: 23053

Ion Ratio Lower Upper

75 100

53 1.2 87.6 131.4#

89 0.0 42.2 63.2#



#85

sec-Butylbenzene

Concen: 4.002 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.01 min

Lab File: VW008073.D

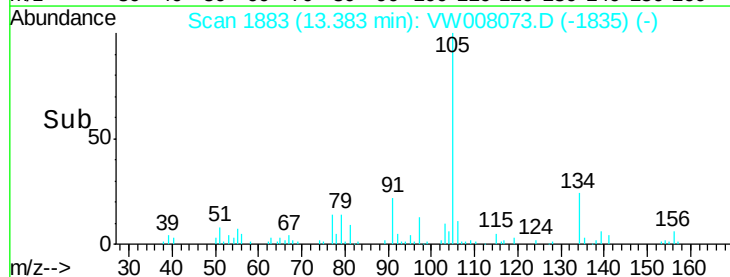
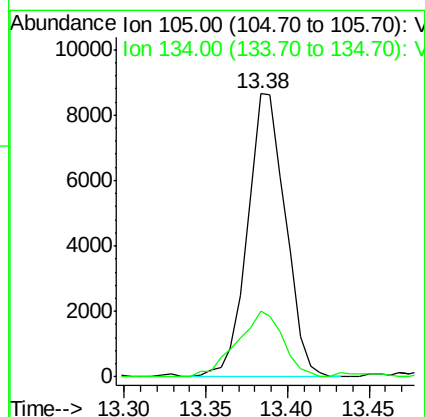
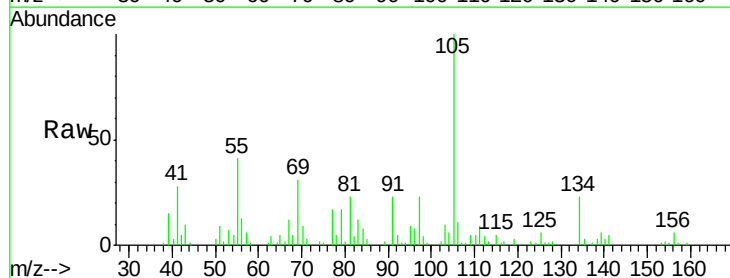
Acq: 07 Jan 2019 16:48

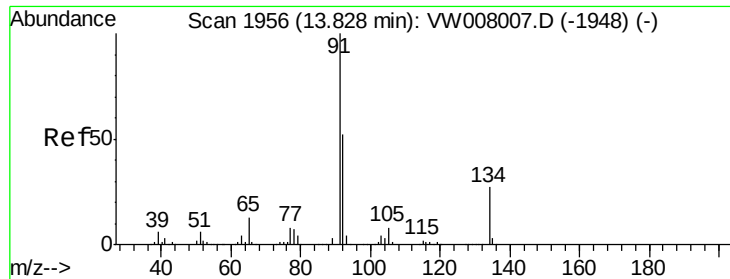
Tgt Ion: 105 Resp: 14039

Ion Ratio Lower Upper

105 100

134 27.9 9.7 28.9





#89

n-Butylbenzene

Concen: 2.243 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW008073.D

Acq: 07 Jan 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

CPSB-17(20-25)

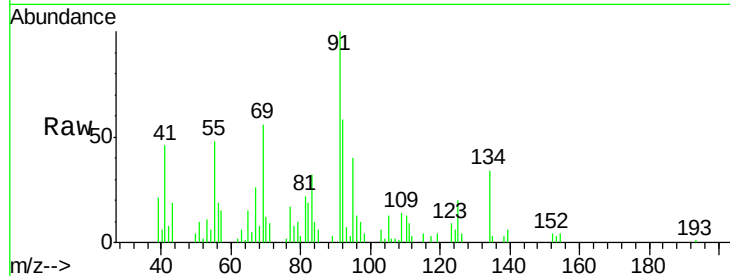
Tot Ion: 91 Resp: 6492

Ion Ratio Lower Upper

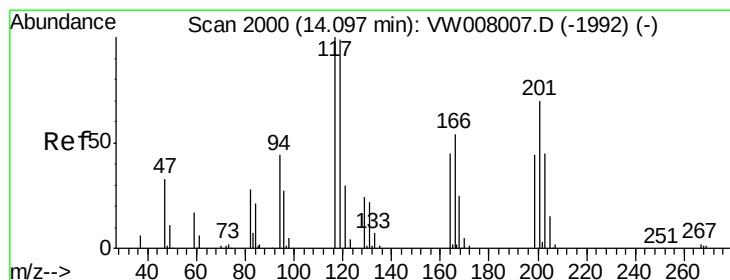
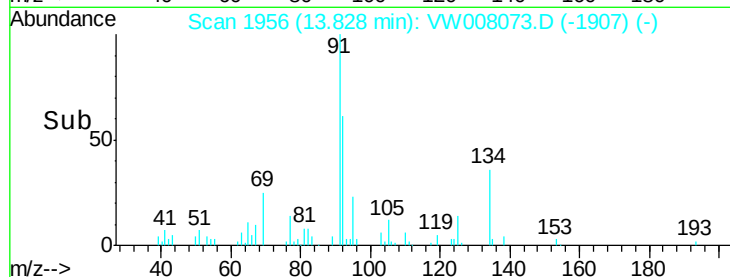
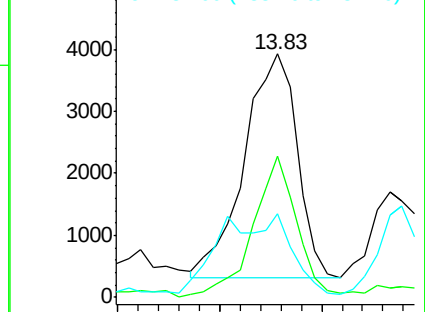
91 100

92 52.4 26.4 79.2

134 0.0 13.4 40.2#



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 92.00 (91.70 to 92.70): VW
Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 5.670 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW008073.D

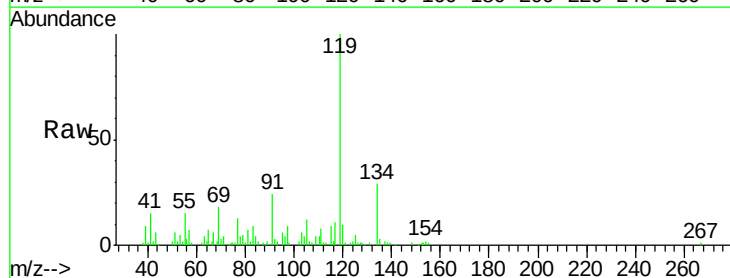
Acq: 07 Jan 2019 16:48

Tgt Ion: 117 Resp: 3113

Ion Ratio Lower Upper

117 100

201 0.0 37.1 111.5#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

