

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011519\
 Data File : VW008284.D
 Acq On : 15 Jan 2019 15:12
 Operator : SY/VA
 Sample : K1135-02
 Misc : 5.01G/5ML/MSVOA W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 CPSB-19(15-20)

Quant Time: Jan 16 01:27:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 04:40:48 2019
 Response via : Initial Calibration

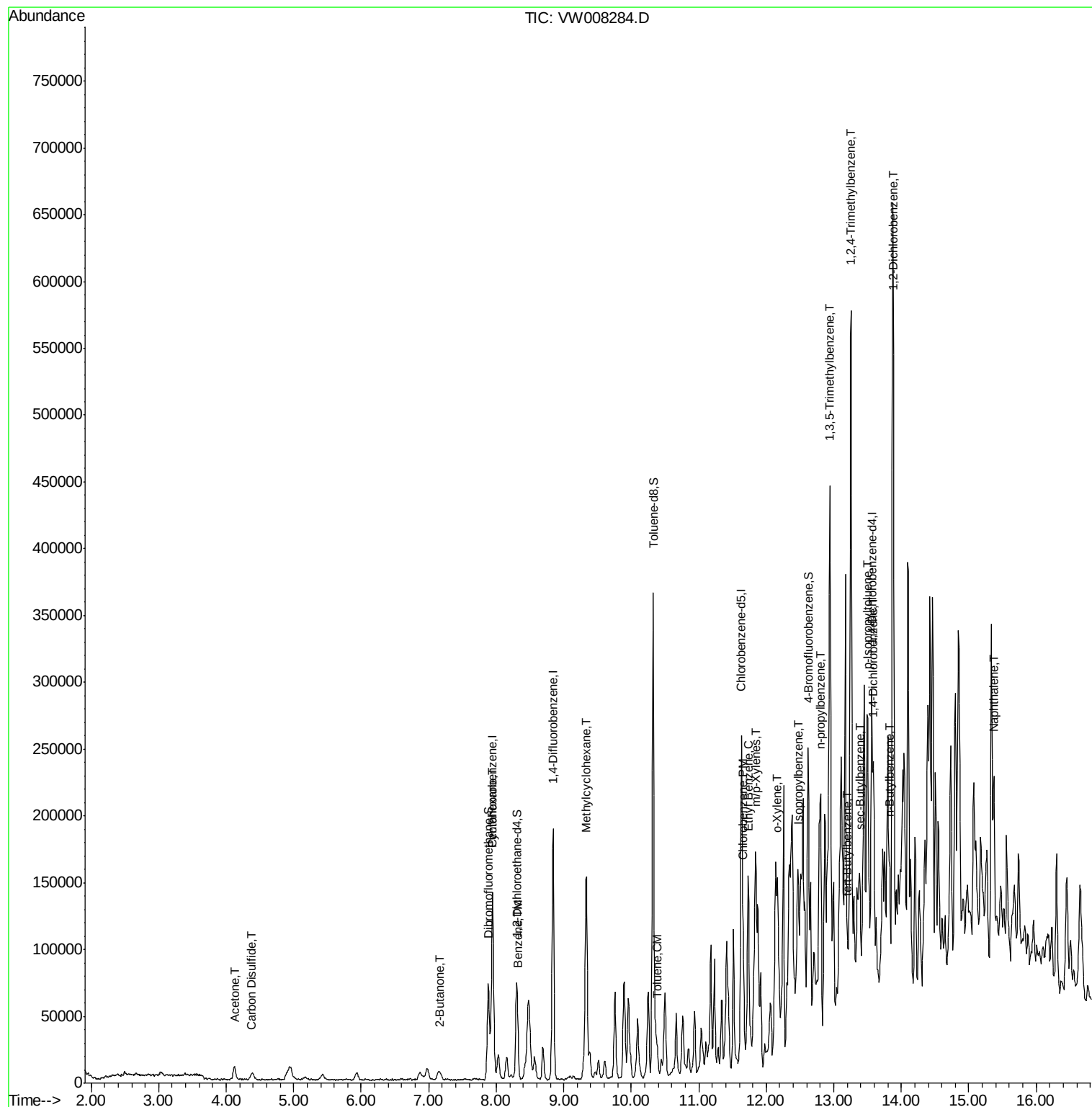
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	91388	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	156289	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	130842	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	50520	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	53491	52.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.16%	
35) Dibromofluoromethane	7.88	113	49998	54.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.70%	
50) Toluene-d8	10.32	98	195366	51.07	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.14%	
62) 4-Bromofluorobenzene	12.62	95	58690	42.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	85.60%	
Target Compounds						
					Qvalue	
16) Acetone	4.12	43	17738	81.851	ug/l	100
17) Carbon Disulfide	4.37	76	7989	2.555	ug/l	100
25) 2-Butanone	7.17	43	5106	17.867	ug/l	91
31) Cyclohexane	7.95	56	14056	6.503	ug/l #	80
39) Methylcyclohexane	9.34	83	56653	27.753	ug/l	95
40) Benzene	8.32	78	5293	1.212	ug/l	98
52) Toluene	10.38	92	8699	3.119	ug/l	99
65) Chlorobenzene	11.66	112	44173	15.936	ug/l	92
67) Ethyl Benzene	11.73	91	88934	17.534	ug/l	99
68) m/p-Xylenes	11.84	106	31291	16.163	ug/l	96
69) o-Xylene	12.17	106	27600	15.395	ug/l	96
73) Isopropylbenzene	12.46	105	46641	11.759	ug/l	100
78) n-propylbenzene	12.80	91	118247	24.332	ug/l	97
80) 1,3,5-Trimethylbenzene	12.94	105	101480	31.135	ug/l	100
83) tert-Butylbenzene	13.21	119	4104	1.423	ug/l	89
84) 1,2,4-Trimethylbenzene	13.26	105	276781	82.336	ug/l	97
85) sec-Butylbenzene	13.39	105	35739	8.461	ug/l #	56
86) p-Isopropyltoluene	13.50	119	69205	18.973	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	19268	11.296	ug/l #	81
89) n-Butylbenzene	13.83	91	44504m	12.458	ug/l	
91) 1,2-Dichlorobenzene	13.87	146	148538	99.418	ug/l	97
95) Naphthalene	15.37	128	97977	52.898	ug/l	95

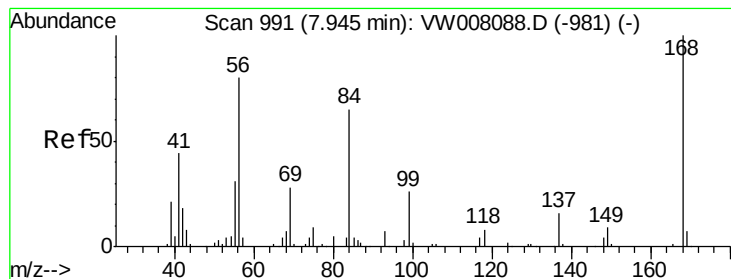
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW008284.D

Acq: 15 Jan 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

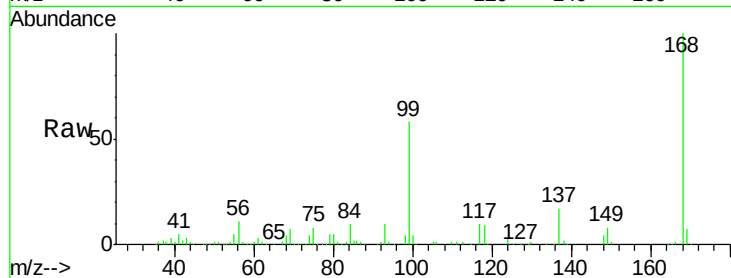
CPSB-19(15-20)

Tot Ion:168 Resp: 91388

Ion Ratio Lower Upper

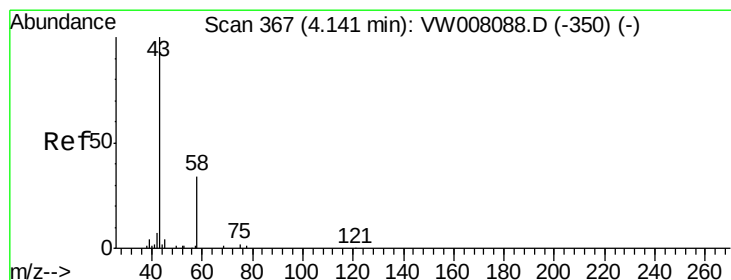
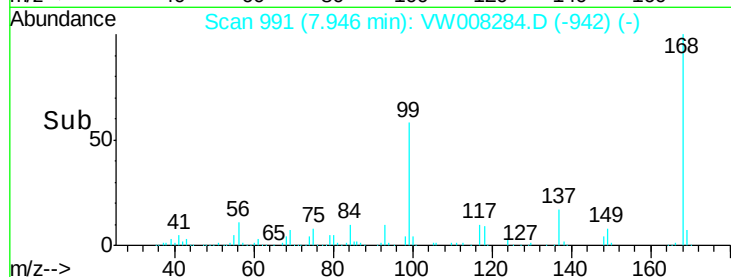
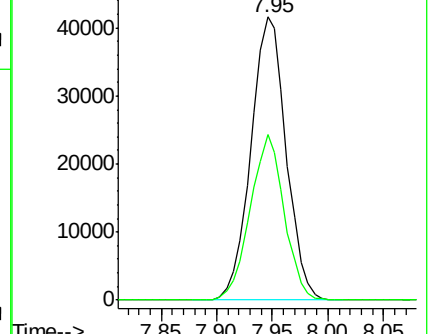
168 100

99 58.5 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 81.851 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.02 min

Lab File: VW008284.D

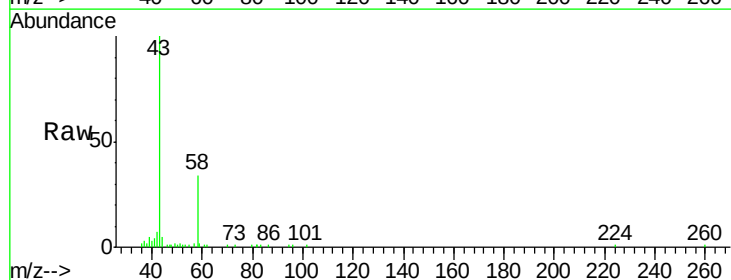
Acq: 15 Jan 2019 15:12

Tgt Ion: 43 Resp: 17738

Ion Ratio Lower Upper

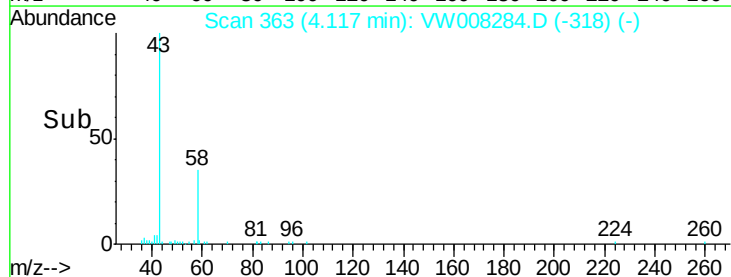
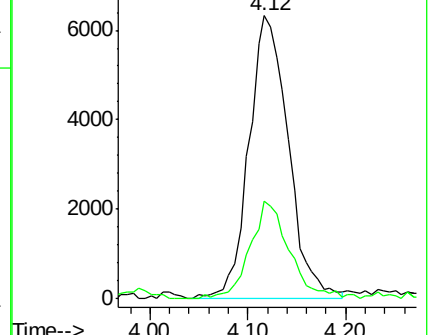
43 100

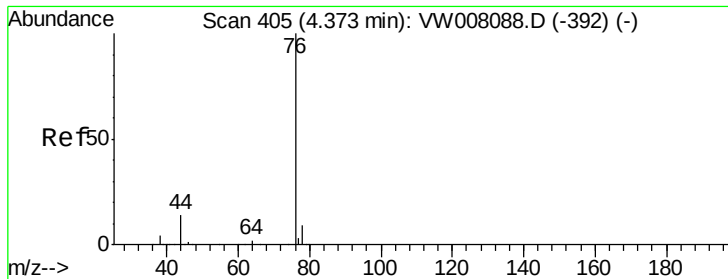
58 34.5 27.5 41.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 2.555 ug/l

RT: 4.37 min Scan# 405

Delta R.T. 0.00 min

Lab File: VW008284.D

Acq: 15 Jan 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

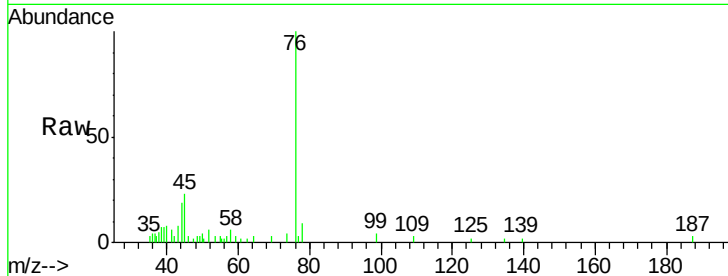
CPSB-19(15-20)

Tot Ion: 76 Resp: 7989

Ion Ratio Lower Upper

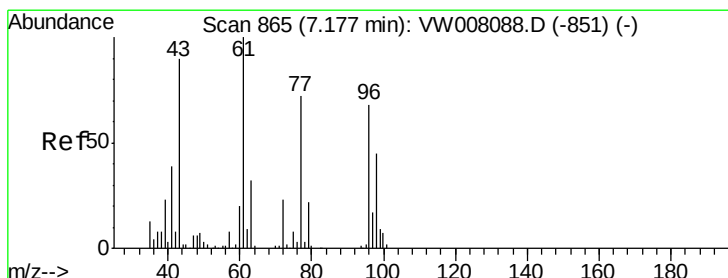
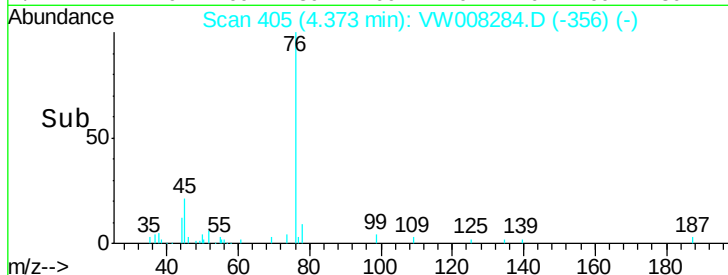
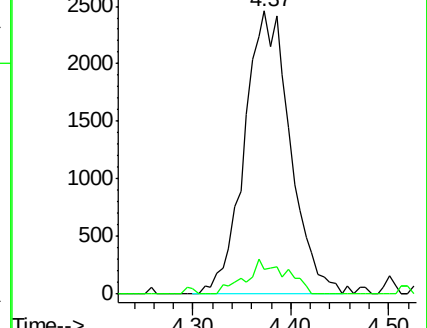
76 100

78 9.0 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#25

2-Butanone

Concen: 17.867 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW008284.D

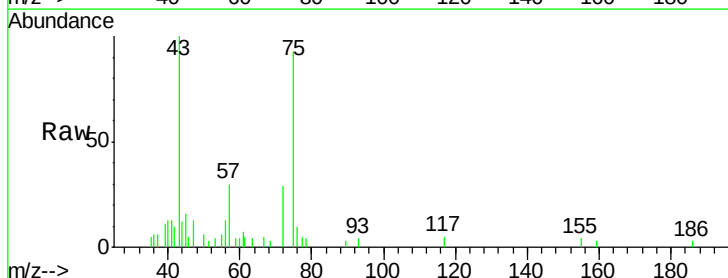
Acq: 15 Jan 2019 15:12

Tgt Ion: 43 Resp: 5106

Ion Ratio Lower Upper

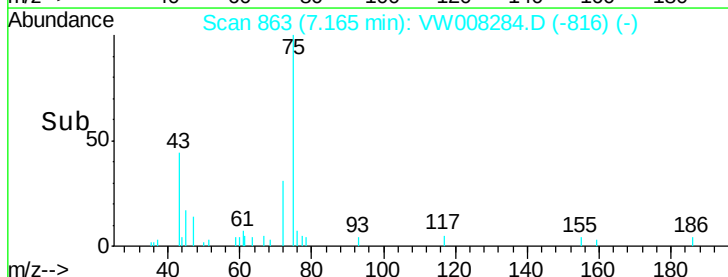
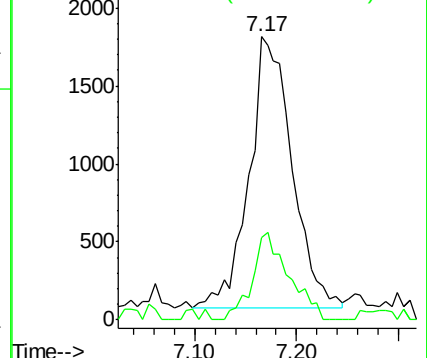
43 100

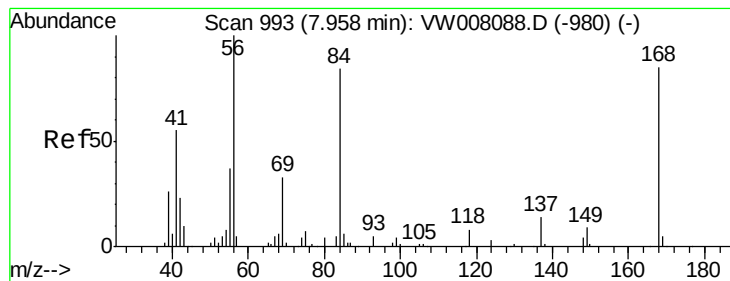
72 30.4 20.5 30.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#31

Cyclohexane

Concen: 6.503 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008284.D

Acq: 15 Jan 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

CPSB-19(15-20)

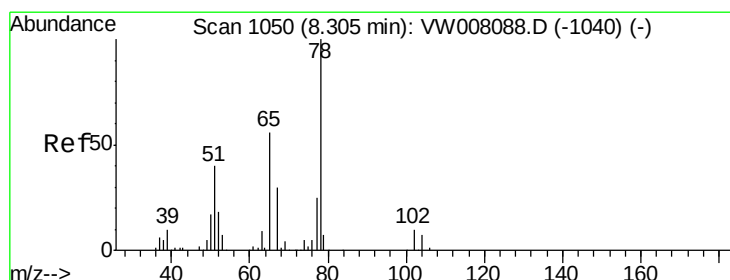
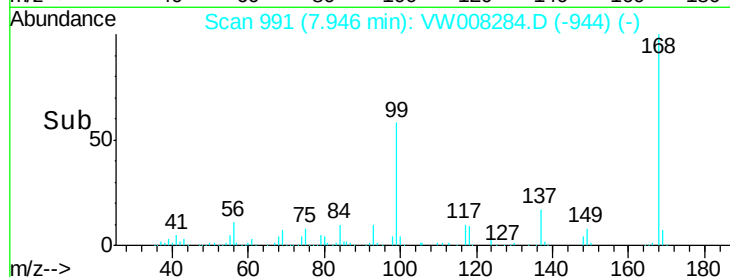
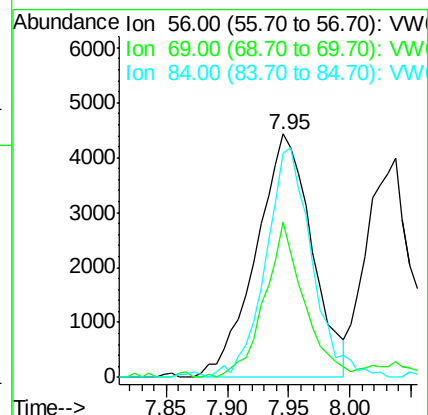
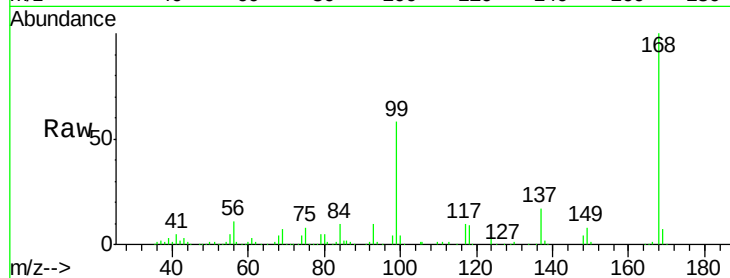
Tot Ion: 56 Resp: 14056

Ion Ratio Lower Upper

56 100

69 63.8 26.2 39.4#

84 90.1 67.4 101.2



#33

1,2-Dichloroethane-d4

Concen: 52.079 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008284.D

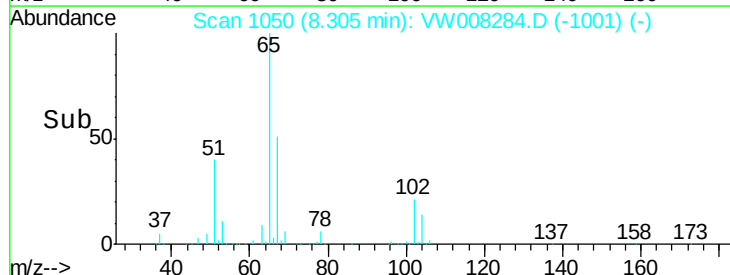
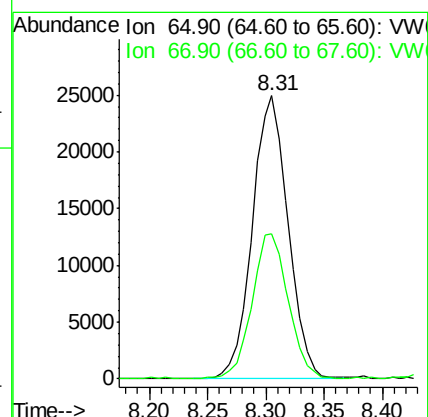
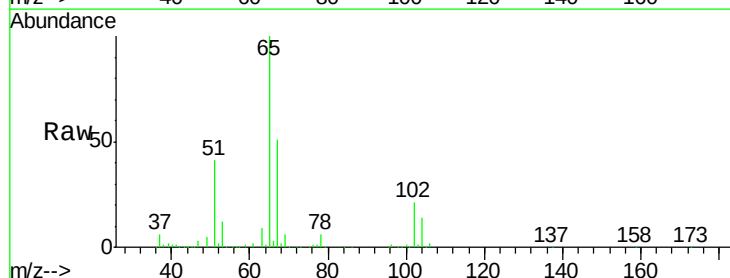
Acq: 15 Jan 2019 15:12

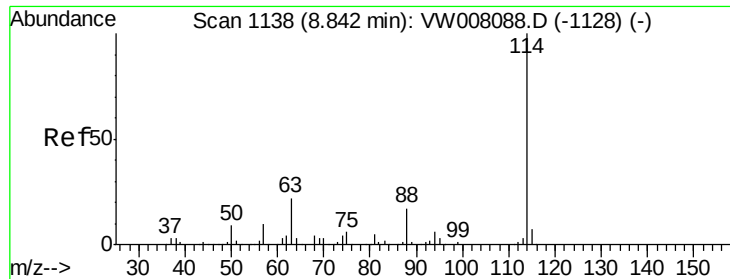
Tgt Ion: 65 Resp: 53491

Ion Ratio Lower Upper

65 100

67 52.2 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008284.D

Acq: 15 Jan 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

CPSB-19(15-20)

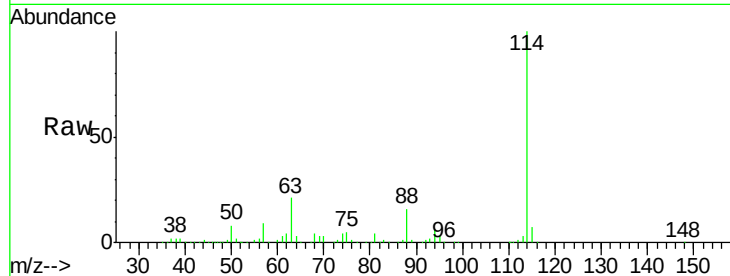
Tot Ion:114 Resp: 156289

Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.4

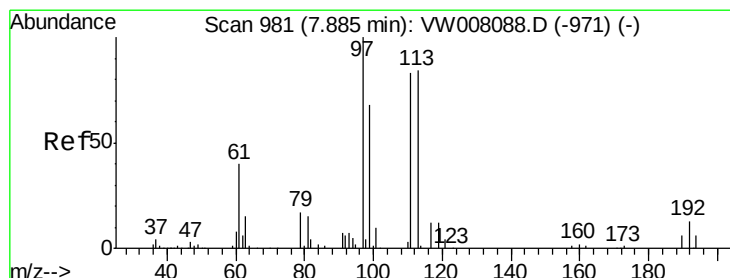
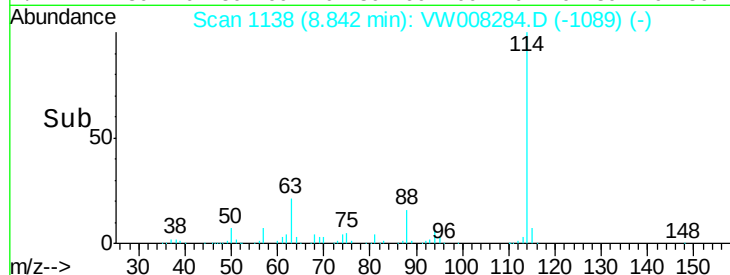
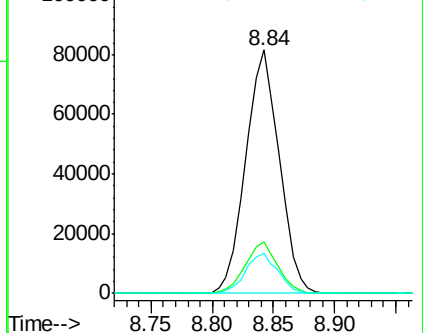
88 16.4 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 54.850 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW008284.D

Acq: 15 Jan 2019 15:12

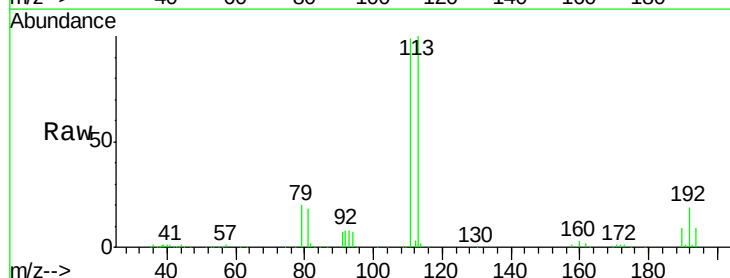
Tgt Ion:113 Resp: 49998

Ion Ratio Lower Upper

113 100

111 104.8 81.8 122.8

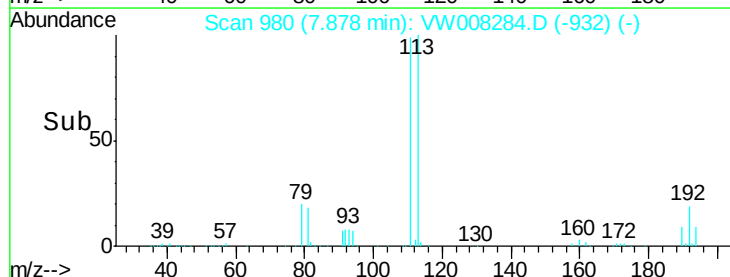
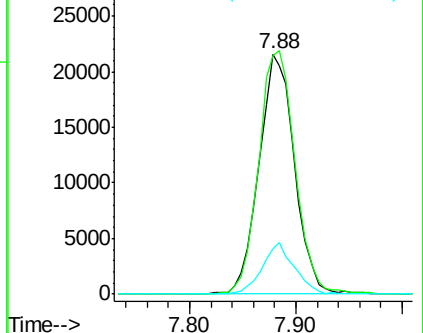
192 19.4 12.8 19.2#

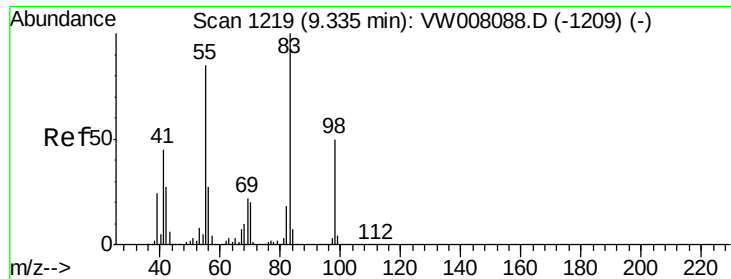


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

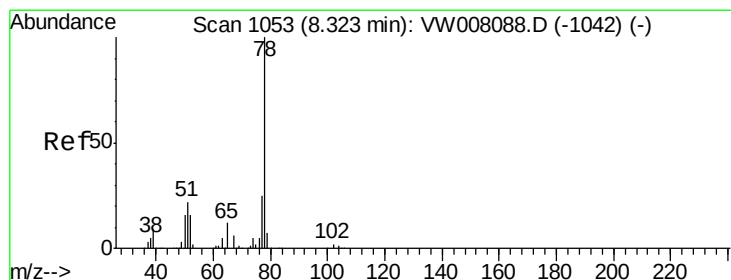
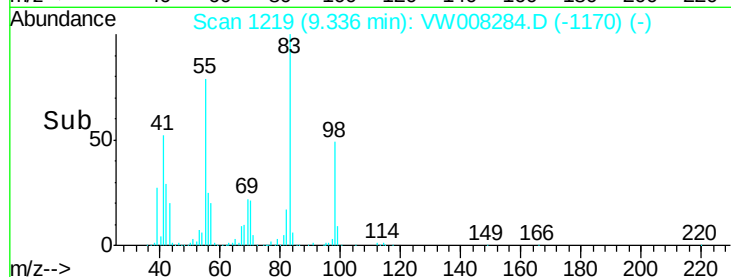
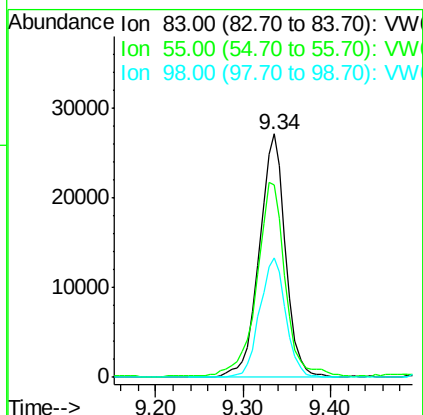
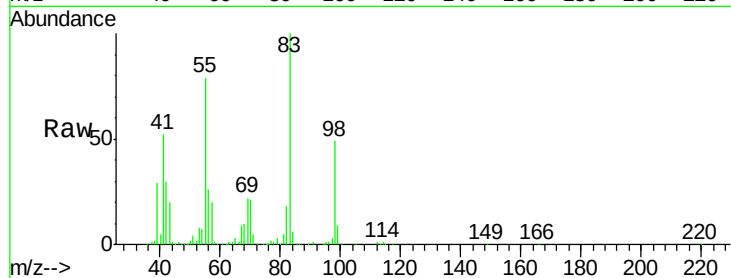




#39
Methylvlcyclohexane
Concen: 27.753 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW008284.D
Acq: 15 Jan 2019 15:12

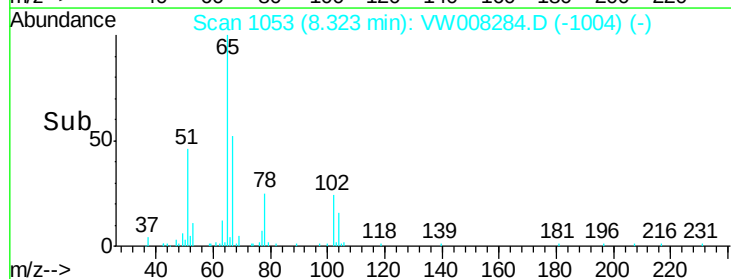
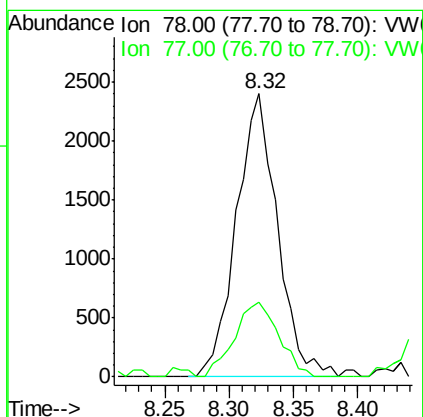
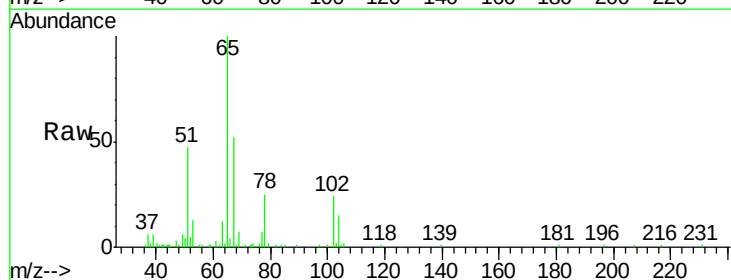
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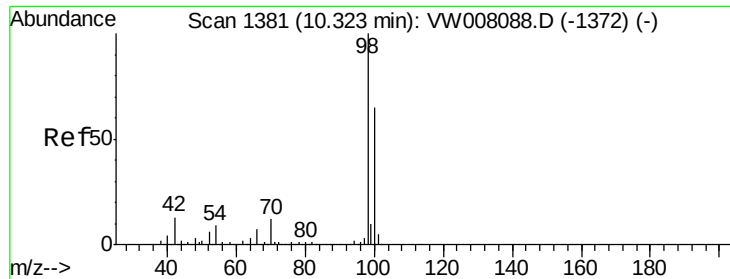
Tot Ion: 83 Resp: 56653
Ion Ratio Lower Upper
83 100
55 78.6 67.8 101.6
98 48.8 40.2 60.4



#40
Benzene
Concen: 1.212 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW008284.D
Acq: 15 Jan 2019 15:12

Tgt Ion: 78 Resp: 5293
Ion Ratio Lower Upper
78 100
77 26.4 20.2 30.4

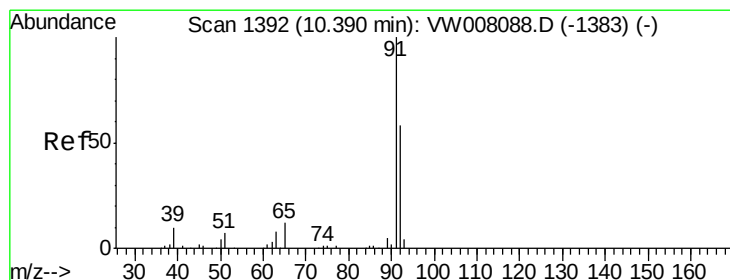
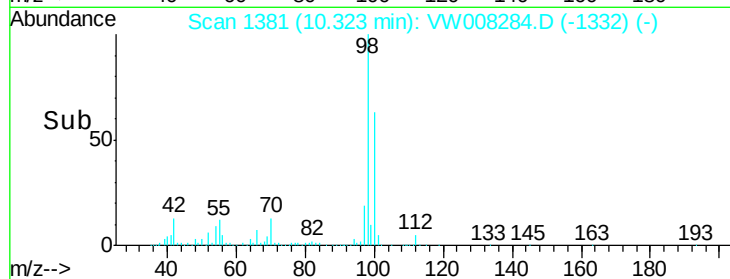
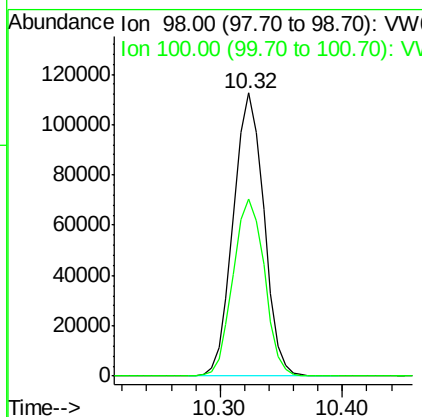
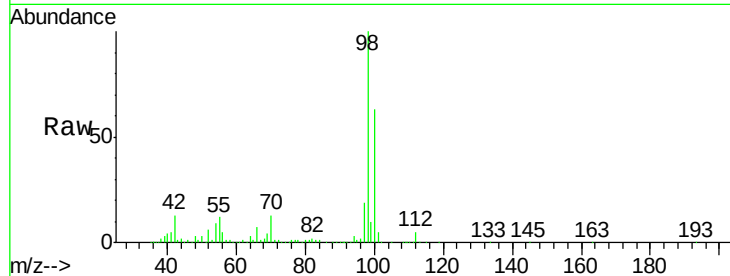




#50
Toluene-d8
Concen: 51.074 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008284.D
Acq: 15 Jan 2019 15:12

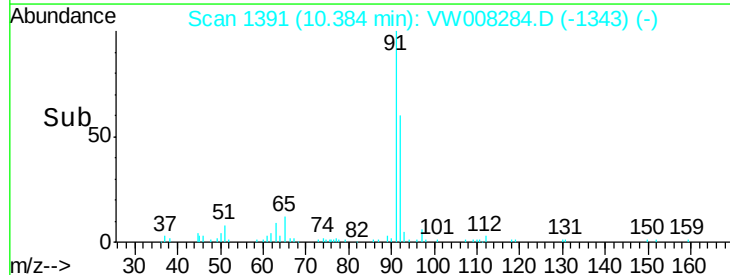
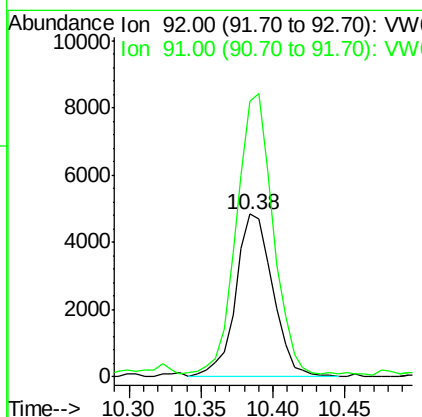
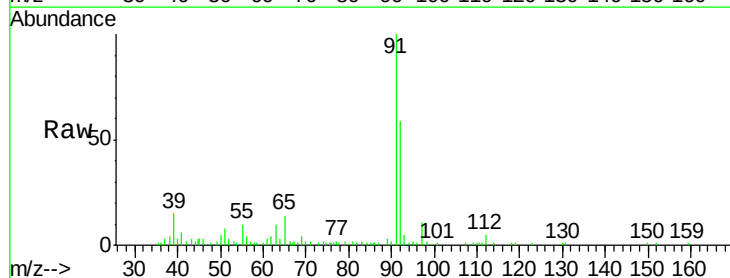
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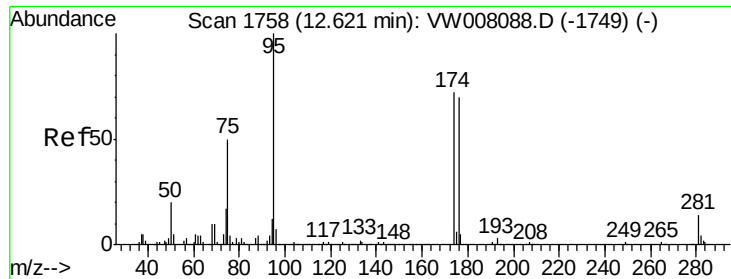
Tot Ion: 98 Resp: 195366
Ion Ratio Lower Upper
98 100
100 64.1 51.7 77.5



#52
Toluene
Concen: 3.119 ug/l
RT: 10.38 min Scan# 1391
Delta R.T. -0.01 min
Lab File: VW008284.D
Acq: 15 Jan 2019 15:12

Tgt Ion: 92 Resp: 8699
Ion Ratio Lower Upper
92 100
91 169.3 137.0 205.4





#62

4-Bromofluorobenzene

Concen: 42.798 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008284.D

Acq: 15 Jan 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

CPSB-19(15-20)

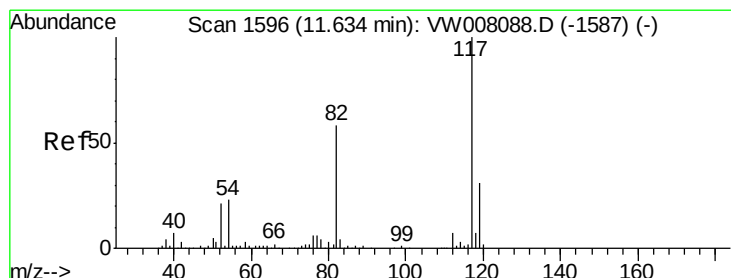
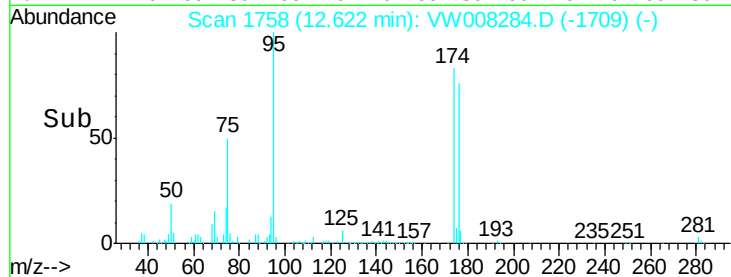
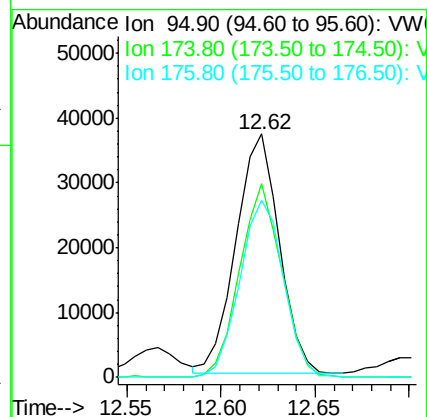
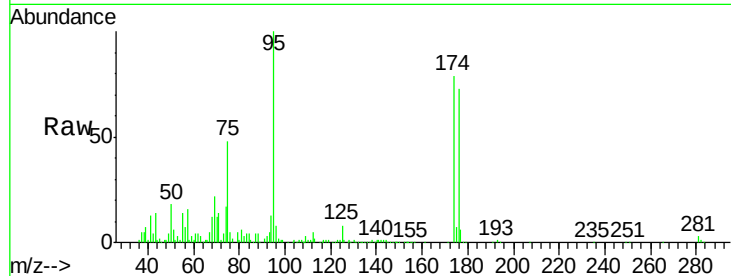
Tot Ion: 95 Resp: 58690

Ion Ratio Lower Upper

95 100

174 79.0 0.0 143.0

176 75.1 0.0 140.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008284.D

Acq: 15 Jan 2019 15:12

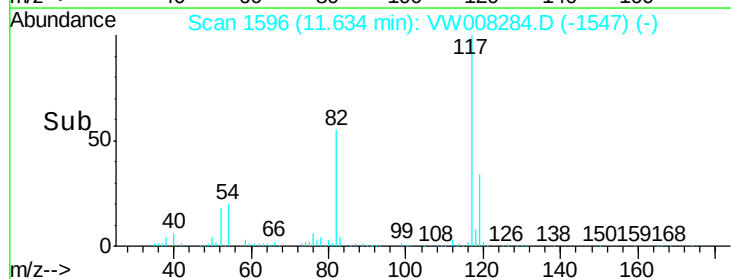
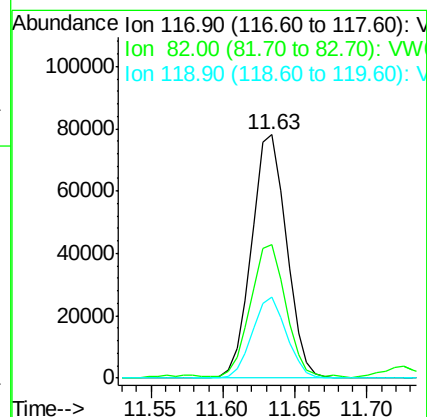
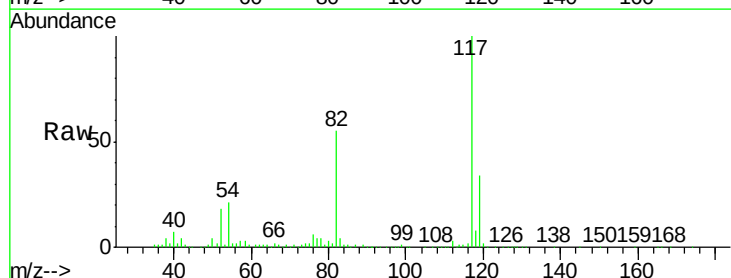
Tgt Ion: 117 Resp: 130842

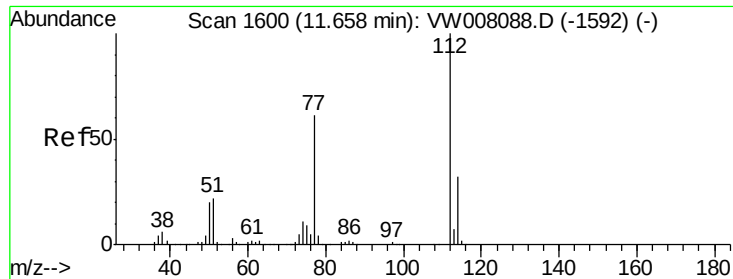
Ion Ratio Lower Upper

117 100

82 54.3 46.4 69.6

119 33.6 24.7 37.1

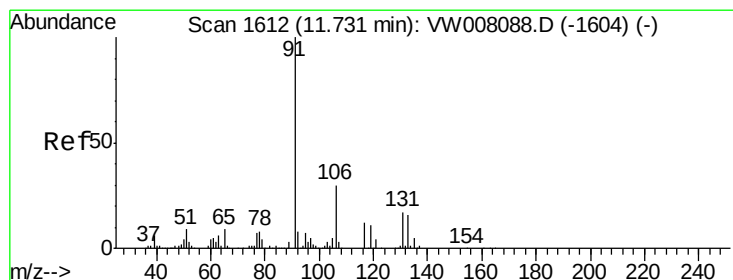
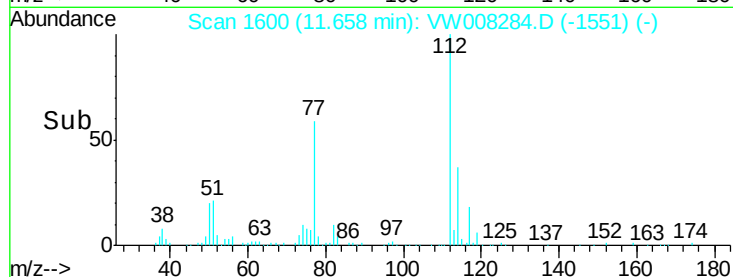
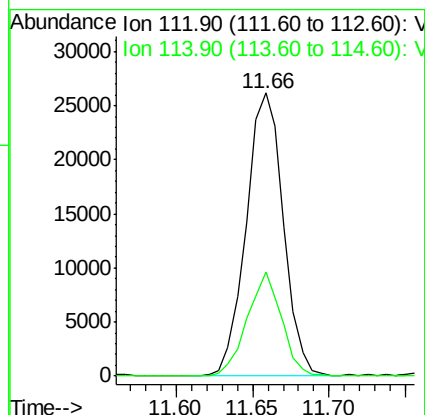
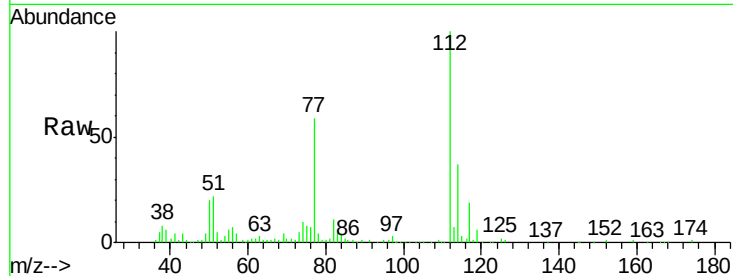




#65
Chlorobenzene
Concen: 15.936 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW008284.D
Acq: 15 Jan 2019 15:12

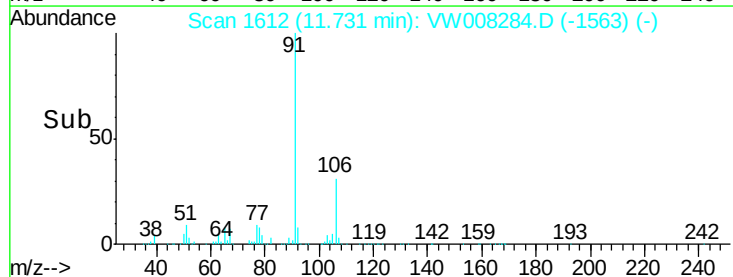
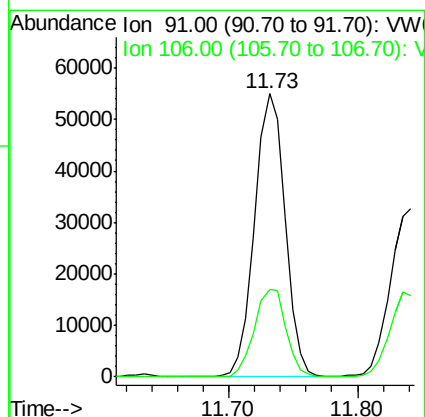
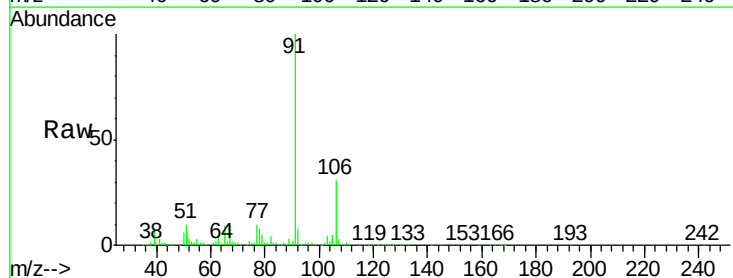
Instrument :
MSVOA_W
ClientSampleId :
CPSB-19(15-20)

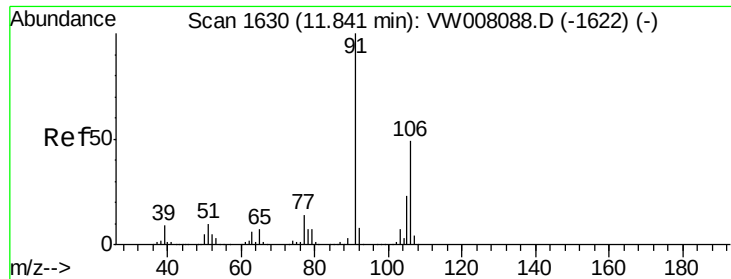
Tot Ion:112 Resp: 44173
Ion Ratio Lower Upper
112 100
114 36.7 25.6 38.4



#67
Ethyl Benzene
Concen: 17.534 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW008284.D
Acq: 15 Jan 2019 15:12

Tgt Ion: 91 Resp: 88934
Ion Ratio Lower Upper
91 100
106 30.9 24.2 36.4

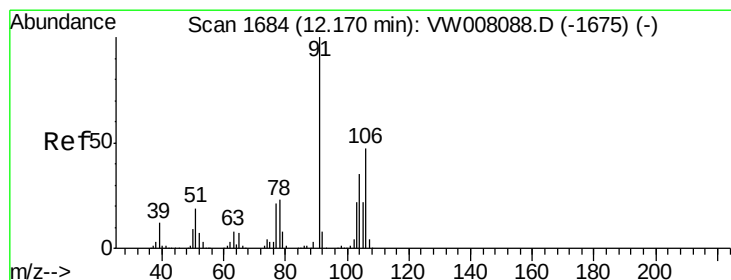
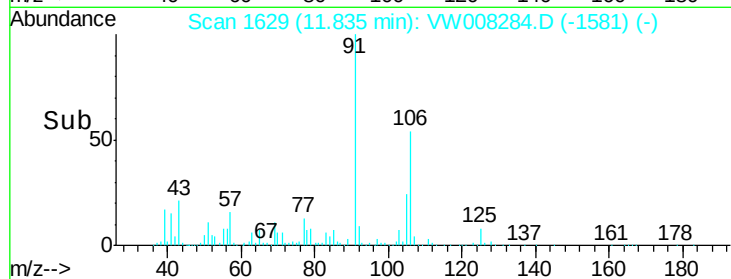
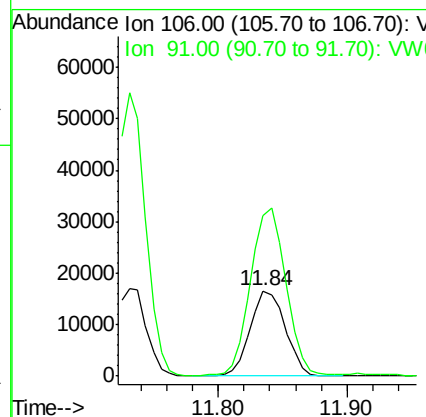
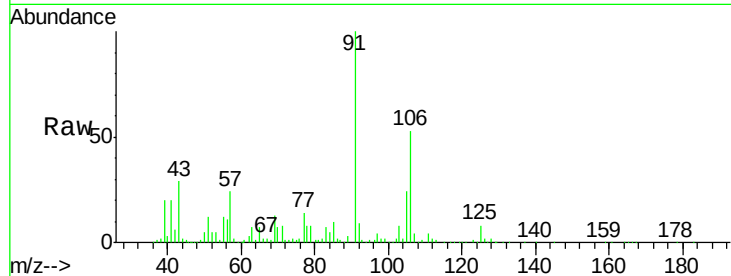




#68
m/p-Xylenes
Concen: 16.163 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW008284.D
Acq: 15 Jan 2019 15:12

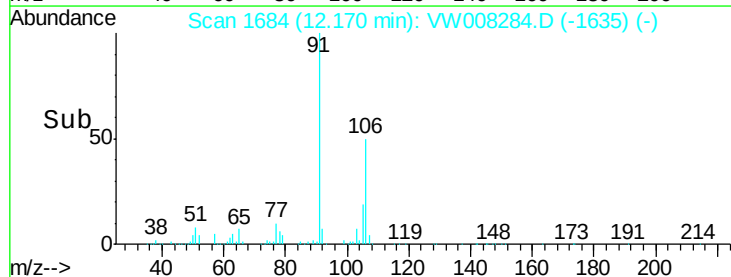
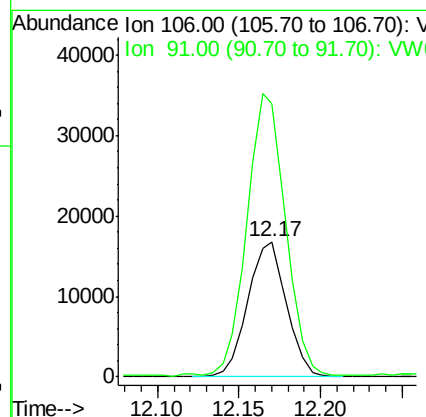
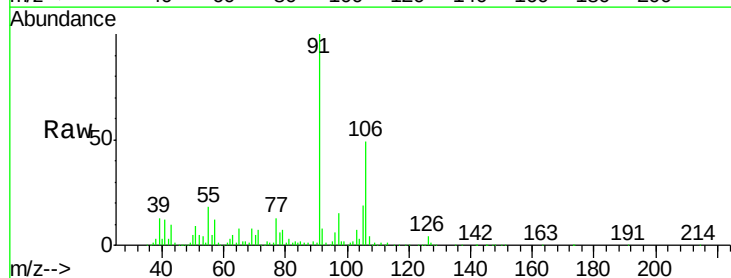
Instrument :
MSVOA_W
ClientSampleId :
CPSB-19(15-20)

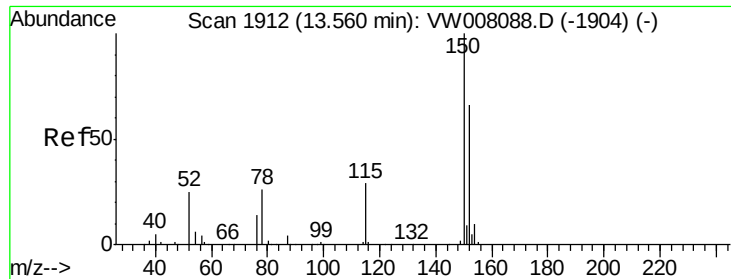
Tot Ion:106 Resp: 31291
Ion Ratio Lower Upper
106 100
91 196.8 162.4 243.6



#69
o-Xylene
Concen: 15.395 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW008284.D
Acq: 15 Jan 2019 15:12

Tgt Ion:106 Resp: 27600
Ion Ratio Lower Upper
106 100
91 209.9 107.8 323.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008284.D

Acq: 15 Jan 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

CPSB-19(15-20)

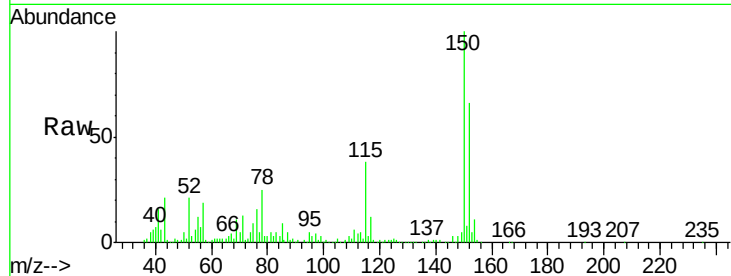
Tot Ion:152 Resp: 50520

Ion Ratio Lower Upper

152 100

115 63.6 30.8 92.4

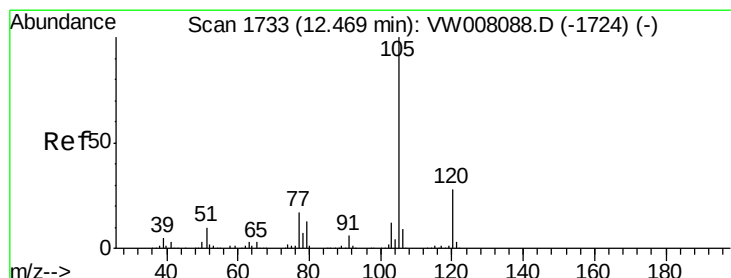
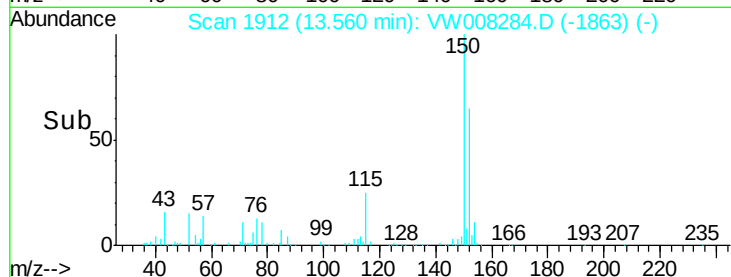
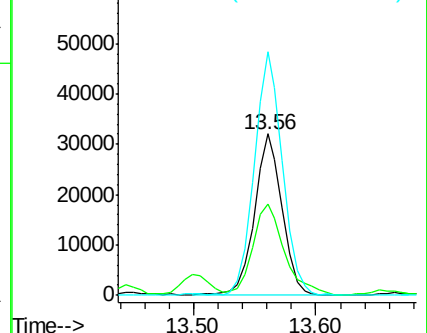
150 153.2 0.0 350.2



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: 11.759 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW008284.D

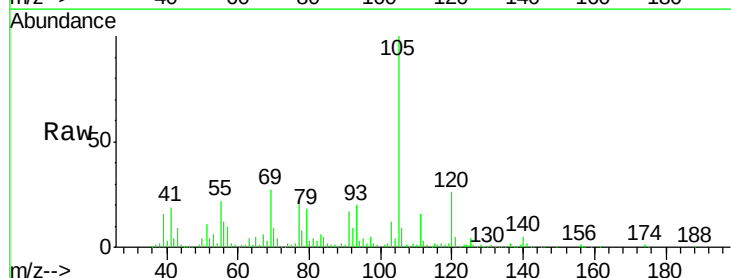
Acq: 15 Jan 2019 15:12

Tgt Ion:105 Resp: 46641

Ion Ratio Lower Upper

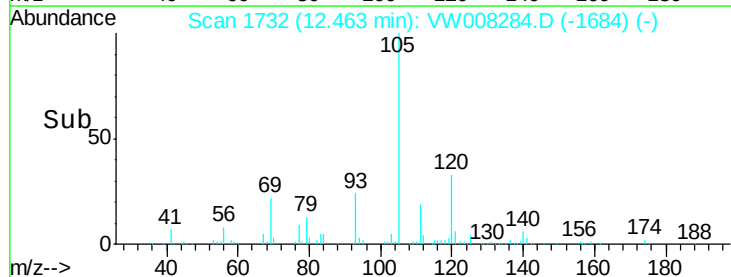
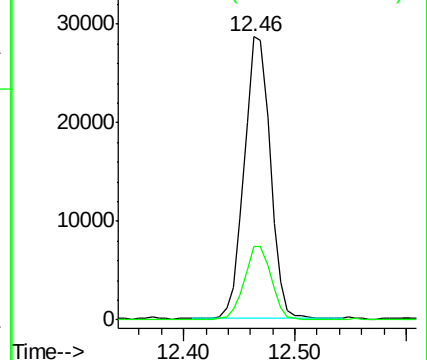
105 100

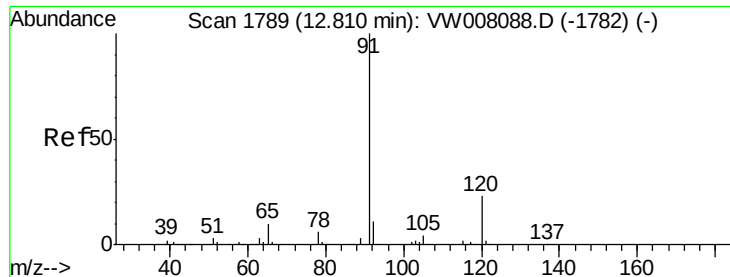
120 27.0 13.6 40.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 24.332 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.01 min

Lab File: VW008284.D

Acq: 15 Jan 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

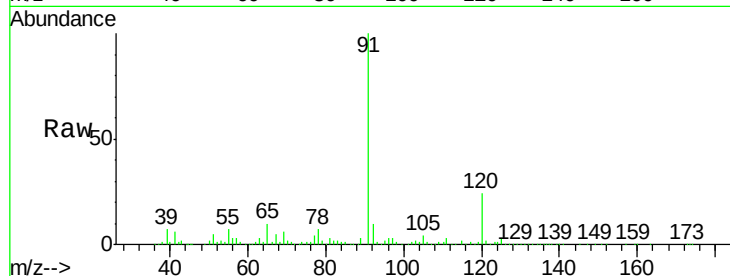
CPSB-19(15-20)

Tot Ion: 91 Resp: 118247

Ion Ratio Lower Upper

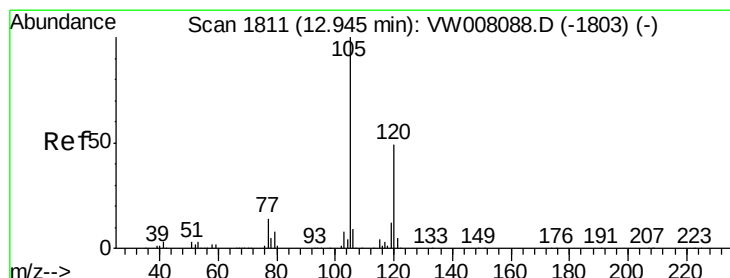
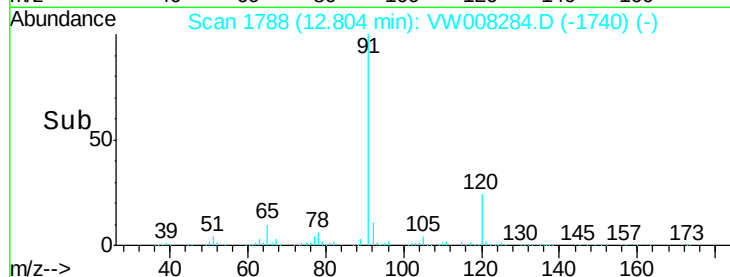
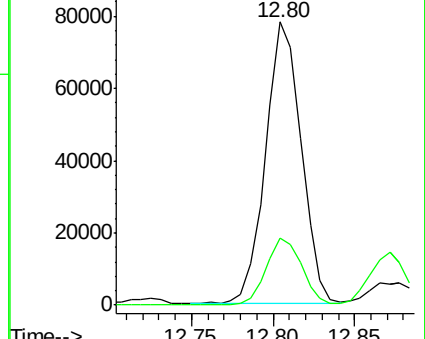
91 100

120 24.1 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 31.135 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW008284.D

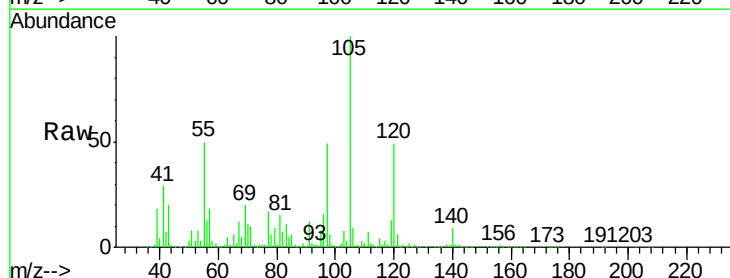
Acq: 15 Jan 2019 15:12

Tgt Ion:105 Resp: 101480

Ion Ratio Lower Upper

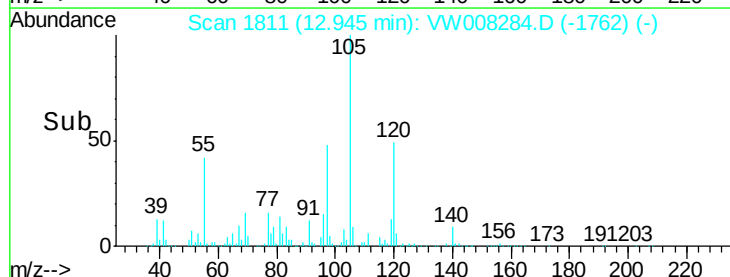
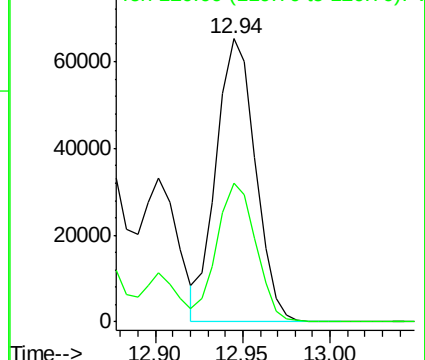
105 100

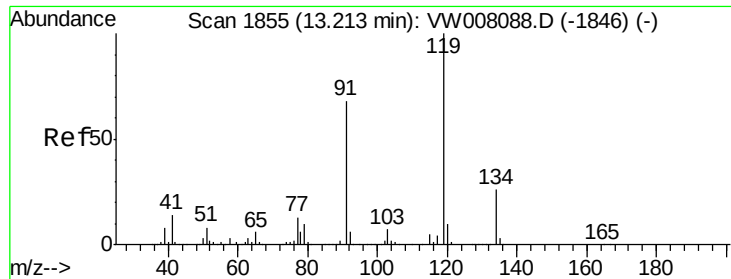
120 49.2 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

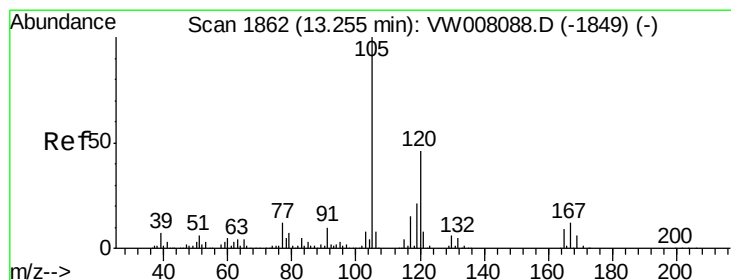
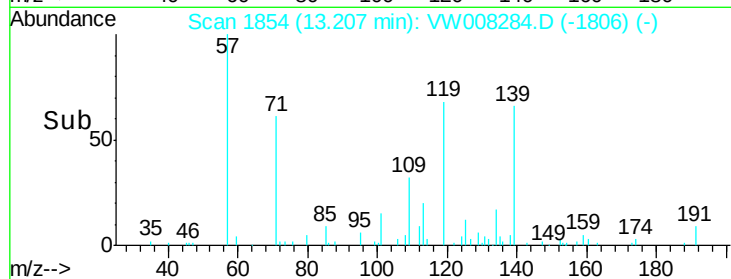
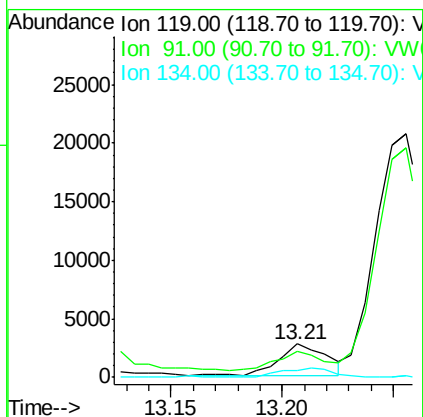
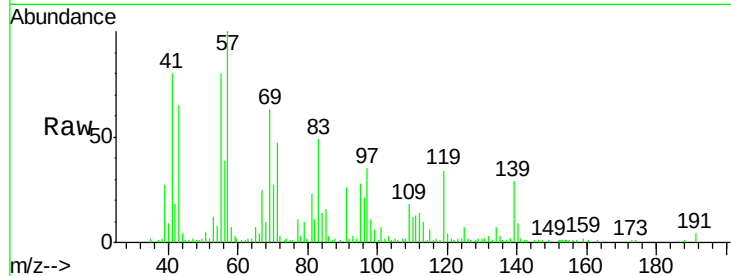




#83
tert-Butylbenzene
Concen: 1.423 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.01 min
Lab File: VW008284.D
Acq: 15 Jan 2019 15:12

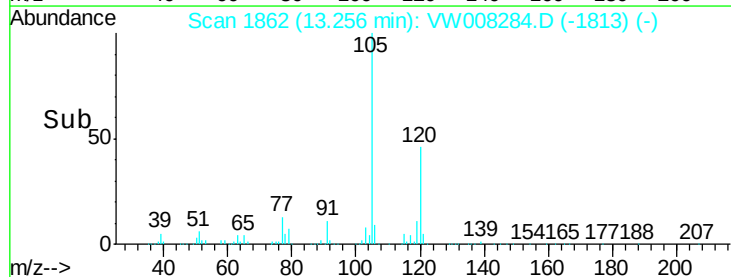
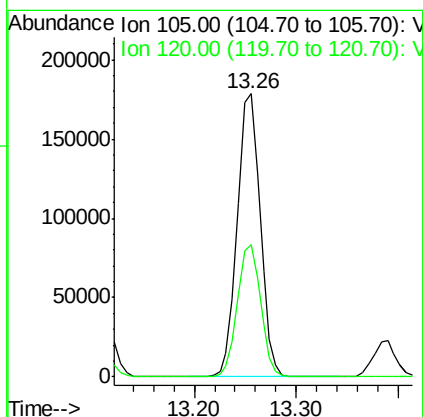
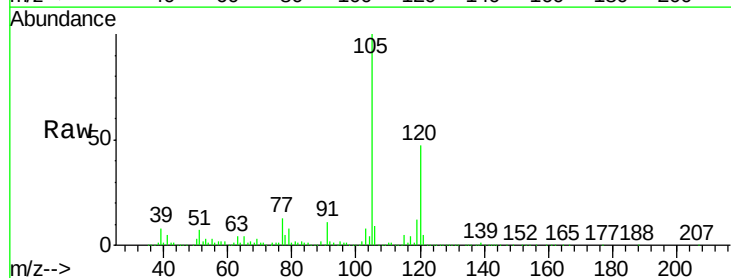
Instrument :
MSVOA_W
ClientSampleId :
CPSB-19(15-20)

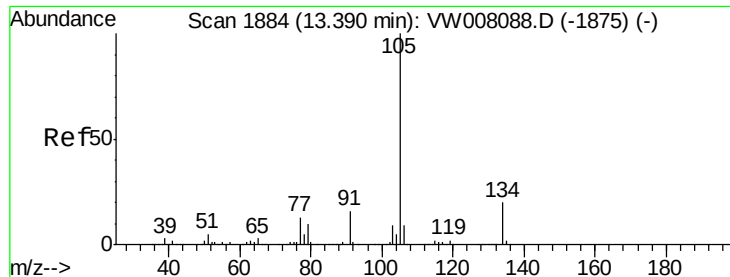
Tot Ion:119 Resp: 4104
Ion Ratio Lower Upper
119 100
91 57.9 33.9 101.6
134 31.4 13.6 40.8



#84
1,2,4-Trimethylbenzene
Concen: 82.336 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VW008284.D
Acq: 15 Jan 2019 15:12

Tgt Ion:105 Resp: 276781
Ion Ratio Lower Upper
105 100
120 47.5 22.7 68.1





#85

sec-Butylbenzene

Concen: 8.461 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. 0.00 min

Lab File: VW008284.D

Acq: 15 Jan 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

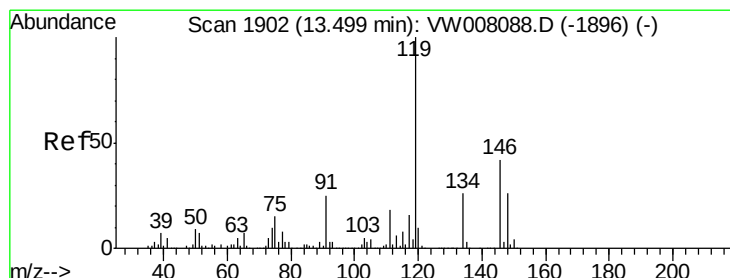
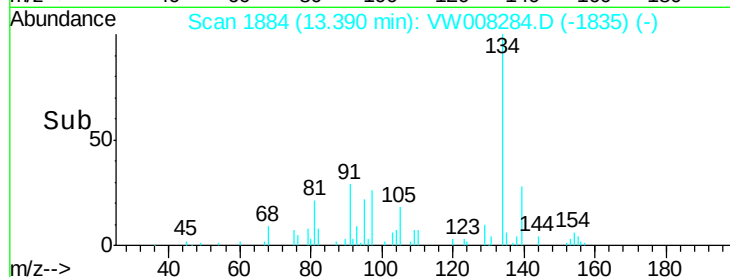
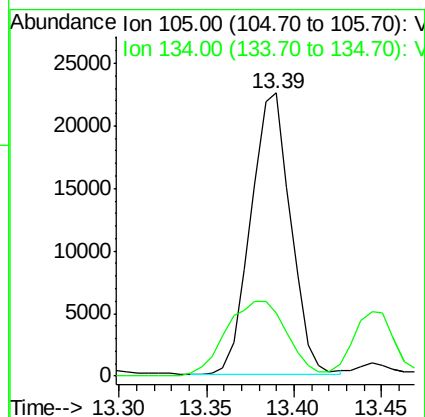
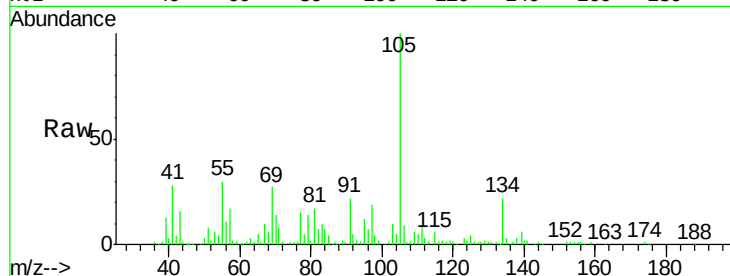
CPSB-19(15-20)

Tot Ion:105 Resp: 35739

Ion Ratio Lower Upper

105 100

134 40.3 10.1 30.1#



#86

p-Isopropyltoluene

Concen: 18.973 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW008284.D

Acq: 15 Jan 2019 15:12

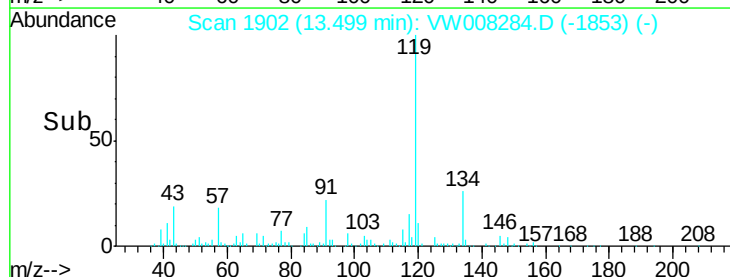
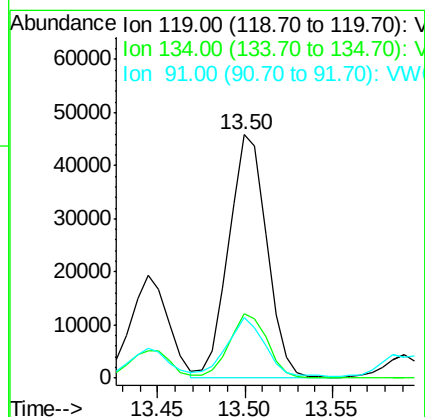
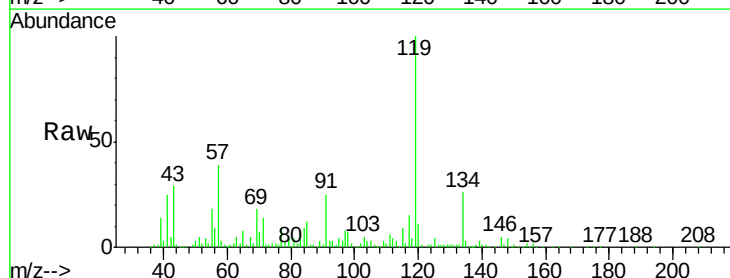
Tgt Ion:119 Resp: 69205

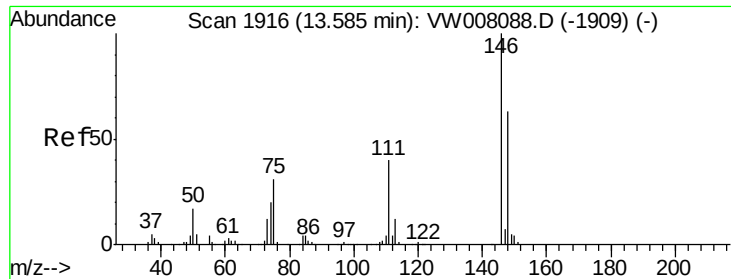
Ion Ratio Lower Upper

119 100

134 26.4 13.3 39.8

91 23.5 12.3 36.9





#88

1,4-Dichlorobenzene

Concen: 11.296 ug/l

RT: 13.58 min Scan# 1916

Delta R.T. 0.00 min

Lab File: VW008284.D

Acq: 15 Jan 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

CPSB-19(15-20)

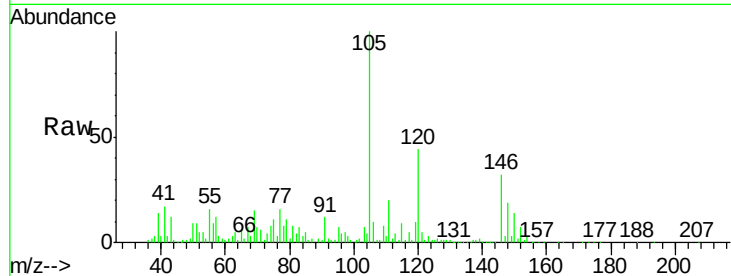
Tot Ion:146 Resp: 19268

Ion Ratio Lower Upper

146 100

111 67.3 20.5 61.5#

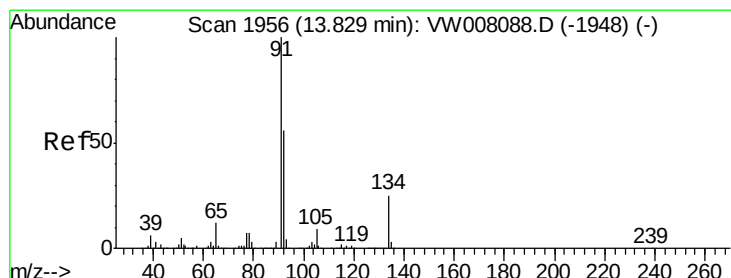
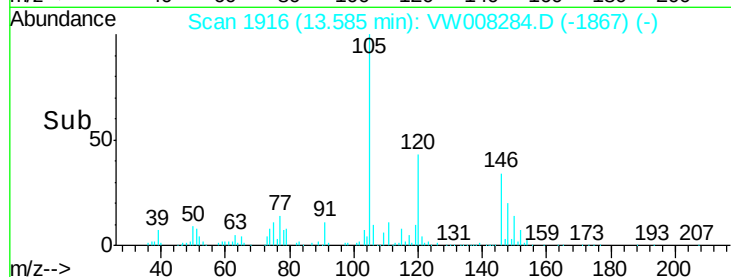
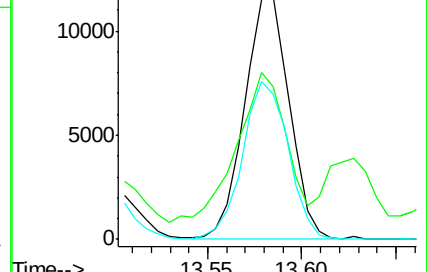
148 65.9 31.6 94.8



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



#89

n-Butylbenzene

Concen: 12.458 ug/l m

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW008284.D

Acq: 15 Jan 2019 15:12

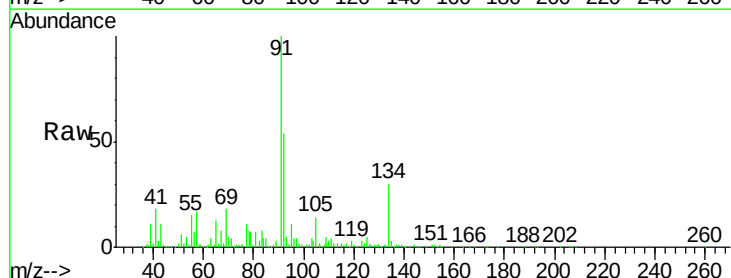
Tgt Ion: 91 Resp: 44504

Ion Ratio Lower Upper

91 100

92 58.1 27.4 82.2

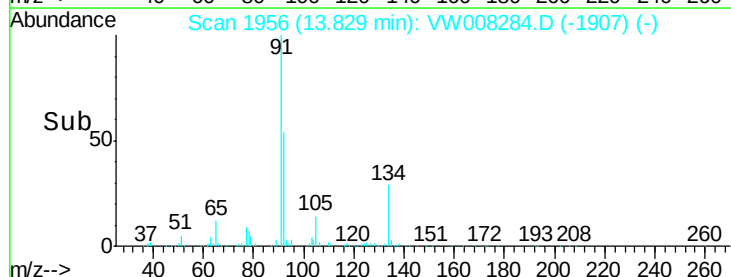
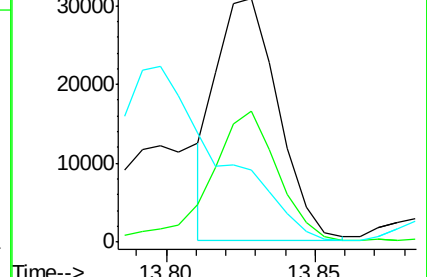
134 0.0 12.6 37.8#

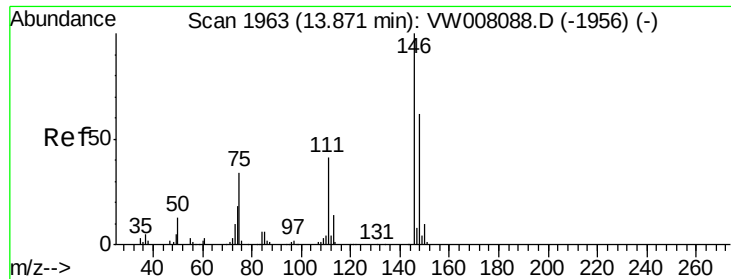


Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V





#91

1,2-Dichlorobenzene

Concen: 99.418 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW008284.D

Acq: 15 Jan 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

CPSB-19(15-20)

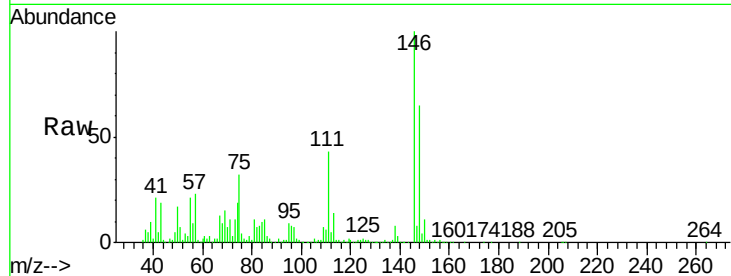
Tot Ion:146 Resp: 148538

Ion Ratio Lower Upper

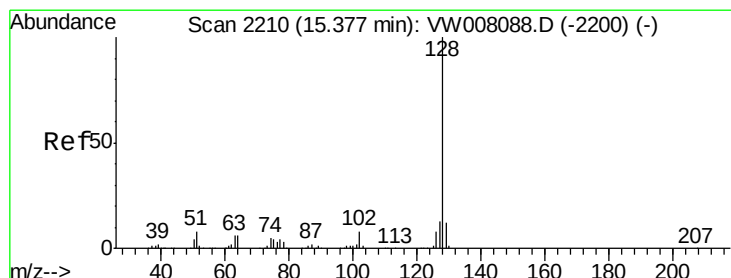
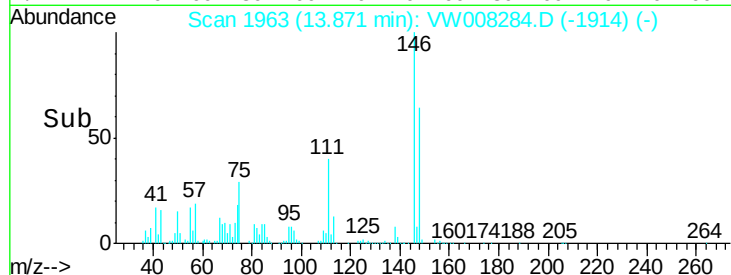
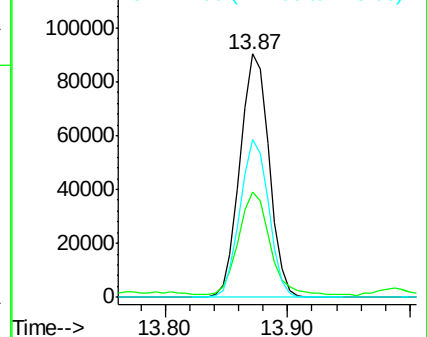
146 100

111 45.2 21.3 63.7

148 64.1 31.5 94.5



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



#95

Naphthalene

Concen: 52.898 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VW008284.D

Acq: 15 Jan 2019 15:12

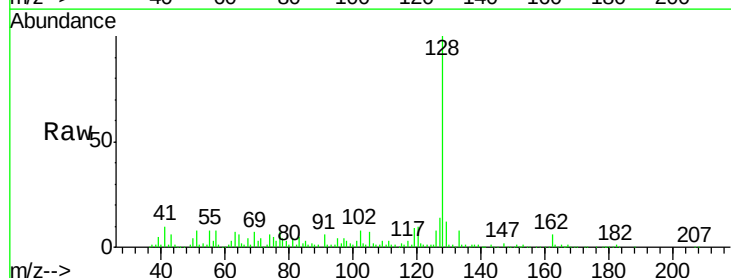
Tgt Ion:128 Resp: 97977

Ion Ratio Lower Upper

128 100

127 16.3 11.0 16.4

129 12.7 9.0 13.6



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

