

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091519\
 Data File : VW013022.D
 Acq On : 15 Sep 2019 05:18
 Operator : SY/VA
 Sample : K4850-01
 Misc : 4.93G/5ML/MSVOA W/SOIL
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 16 06:58:56 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	7.95	168	181326	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	253864	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	202052	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	76618	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	88581	52.89	ug/l	0.00
Spiked Amount			Recovery	=	105.78%	
35) Dibromofluoromethane	7.88	113	72572	52.68	ug/l	0.00
Spiked Amount			Recovery	=	105.36%	
50) Toluene-d8	10.32	98	303199	56.25	ug/l	0.00
Spiked Amount			Recovery	=	112.50%	
62) 4-Bromofluorobenzene	12.62	95	91470	47.19	ug/l	0.00
Spiked Amount			Recovery	=	94.38%	

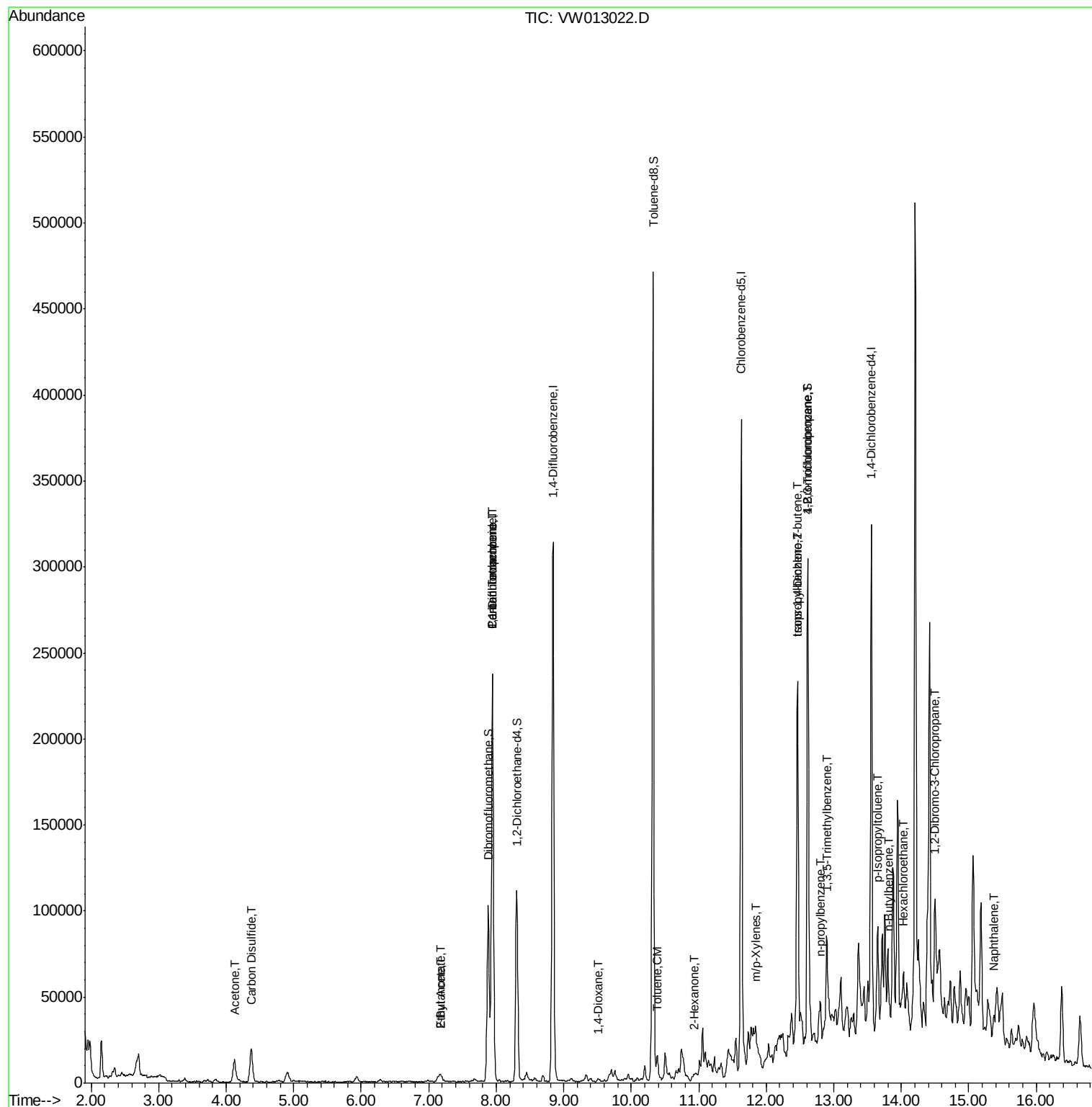
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	279	Below Cal	#	48
11) Tert butyl alcohol	5.14	59	447	Below Cal	#	72
13) Acrolein	3.85	56	45	Below Cal	#	1
16) Acetone	4.12	43	23244	48.185	ug/l	97
17) Carbon Disulfide	4.37	76	40353	16.178	ug/l	97
20) Methylene Chloride	4.90	84	4108	Below Cal		99
25) 2-Butanone	7.17	43	6740	12.657	ug/l	96
26) 2,2-Dichloropropane	7.15	77	88	Below Cal	#	55
31) Cyclohexane	7.95	56	4671	Below Cal	#	18
36) 1,1-Dichloropropene	7.95	75	14054	6.928	ug/l	51
37) Ethyl Acetate	7.17	43	6740	6.260	ug/l	74
38) Carbon Tetrachloride	7.94	117	17275	8.310	ug/l	14
49) 1,4-Dioxane	9.50	88	27	2.235	ug/l	1
52) Toluene	10.39	92	5259	1.461	ug/l	100
59) 2-Hexanone	10.93	43	1195	1.608	ug/l	26
68) m/p-Xylenes	11.84	106	4146	1.707	ug/l	86
73) Isopropylbenzene	12.46	105	133298	26.248	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	46451	69.215	ug/l	100
78) n-propylbenzene	12.80	91	19474	3.260	ug/l	98
80) 1,3,5-Trimethylbenzene	12.90	105	37629	8.758	ug/l	75
81) trans-1,4-Dichloro-2-buten	12.46	75	1866	6.307	ug/l	74
86) p-Isopropyltoluene	13.65	119	28251	5.877	ug/l	92
89) n-Butylbenzene	13.82	91	7854	1.732	ug/l	33
90) Hexachloroethane	14.03	117	8672	10.067	ug/l	4
92) 1,2-Dibromo-3-Chloropropan	14.50	75	861	5.274	ug/l	1
95) Naphthalene	15.37	128	8812	3.631	ug/l	94

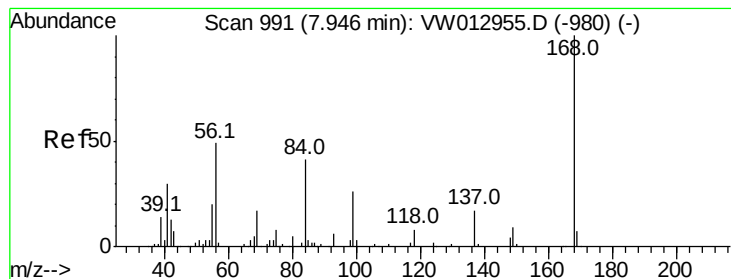
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_W
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Quant Time: Sep 16 06:58:56 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 13 17:26:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013022.D

Acq: 15 Sep 2019 05:18

Instrument :

MSVOA_W

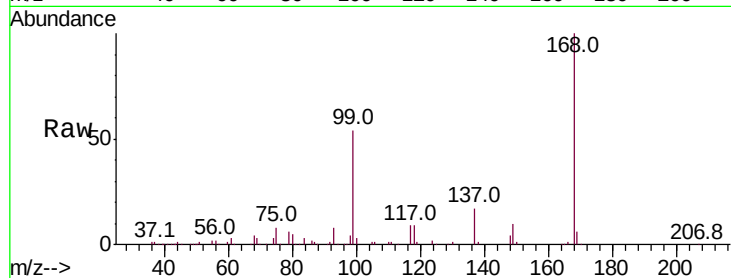
ClientSampled :

Tot Ion:168 Resp: 181326

Ion Ratio Lower Upper

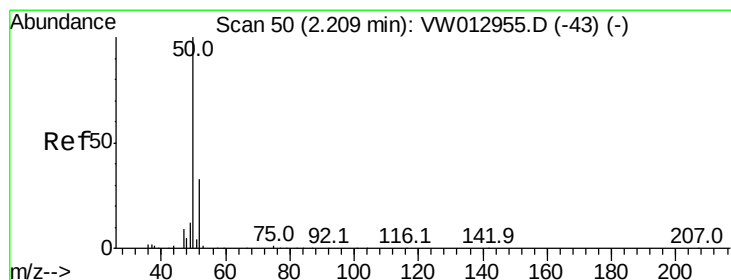
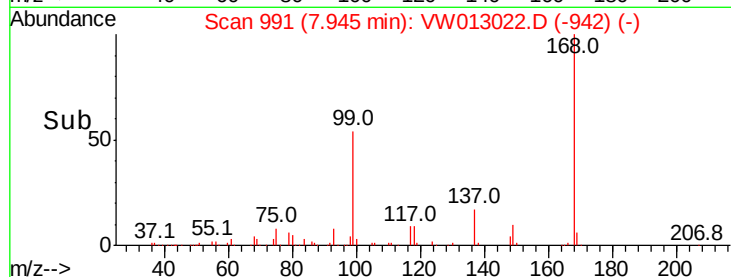
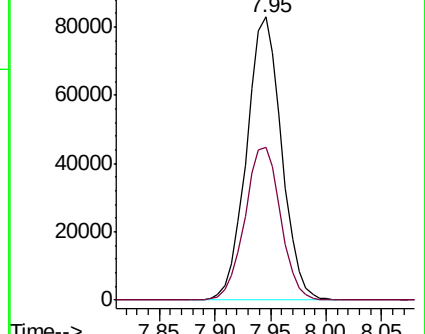
168 100

99 54.0 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: VW013022.D

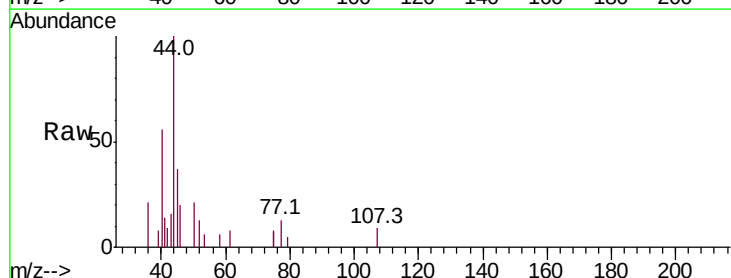
Acq: 15 Sep 2019 05:18

Tgt Ion: 50 Resp: 279

Ion Ratio Lower Upper

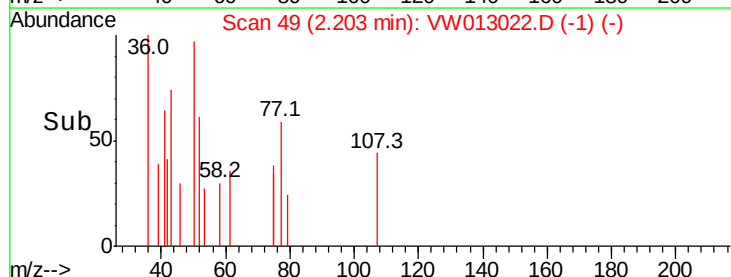
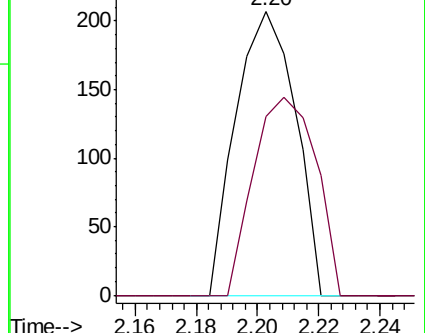
50 100

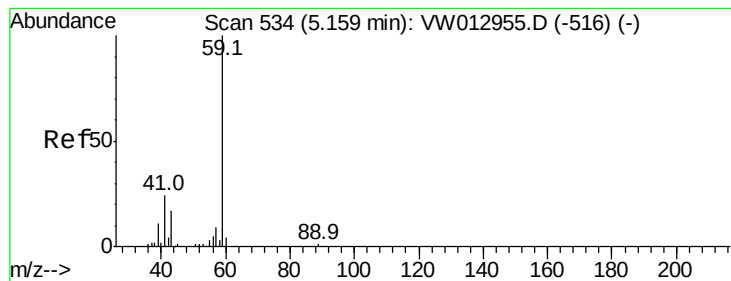
52 62.8 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



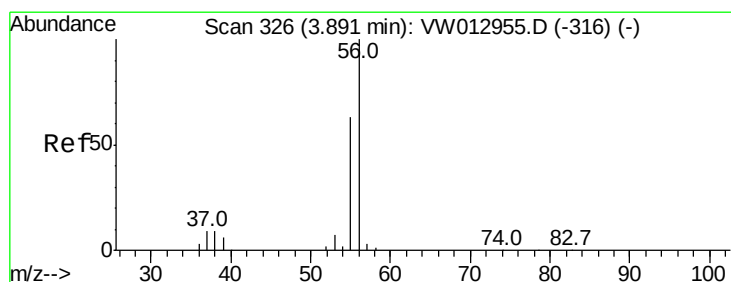
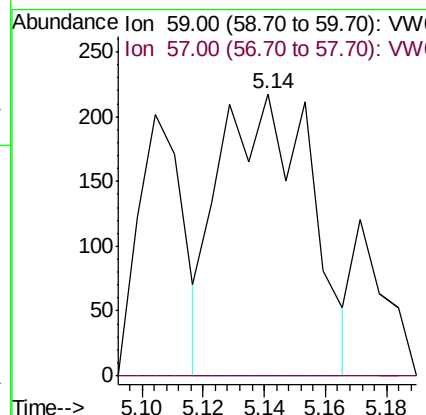
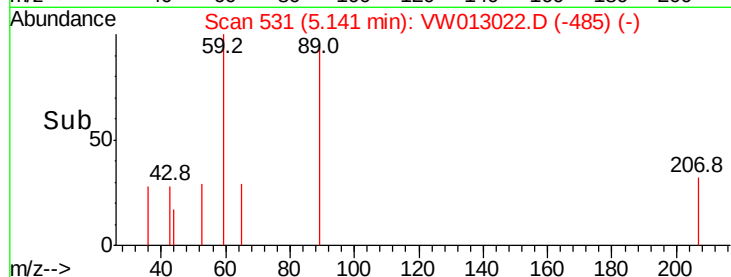
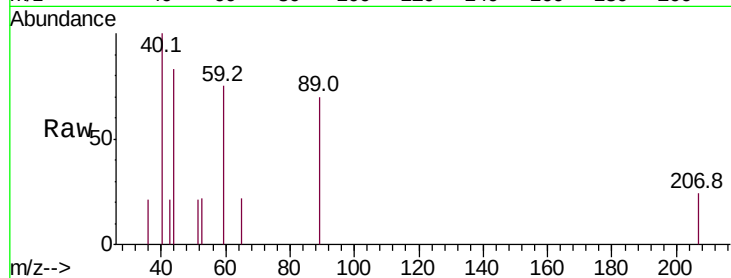


#11

Tert butyl alcohol
Concen: Below Cal
RT: 5.14 min Scan# 531
Delta R.T. -0.02 min
Lab File: VW013022.D
Acq: 15 Sep 2019 05:18

Instrument :
MSVOA_W
ClientSampled :

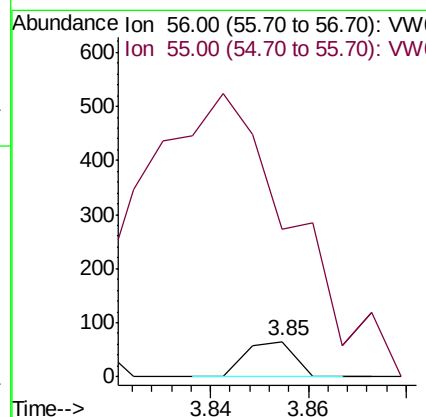
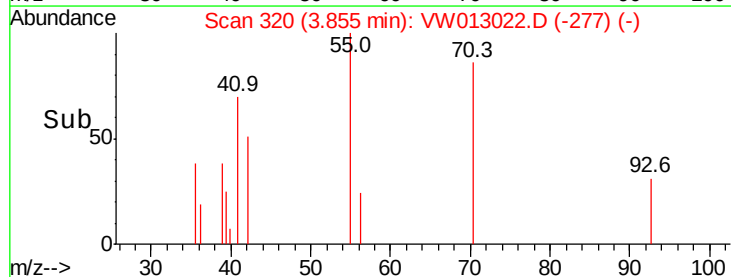
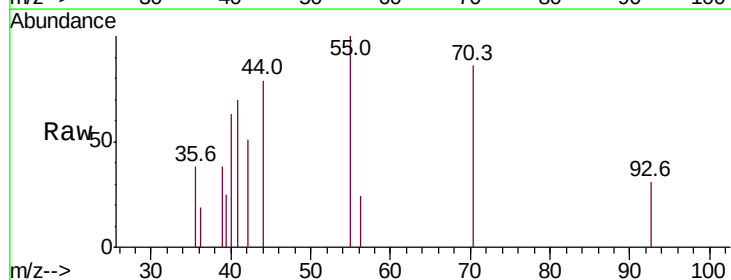
Tot Ion: 59 Resp: 447
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

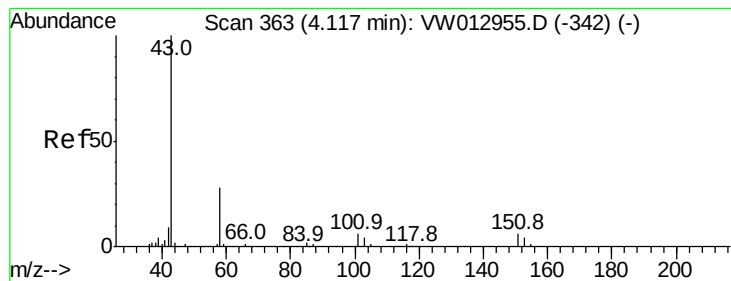


#13

Acrolein
Concen: Below Cal
RT: 3.85 min Scan# 320
Delta R.T. -0.04 min
Lab File: VW013022.D
Acq: 15 Sep 2019 05:18

Tgt Ion: 56 Resp: 45
Ion Ratio Lower Upper
56 100
55 2680.0 55.8 83.8#





#16

Acetone

Concen: 48.185 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW013022.D

Acq: 15 Sep 2019 05:18

Instrument :

MSVOA_W

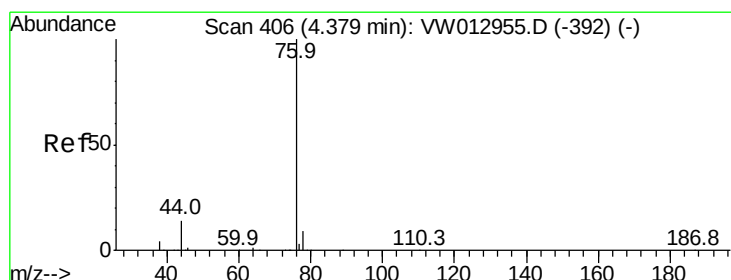
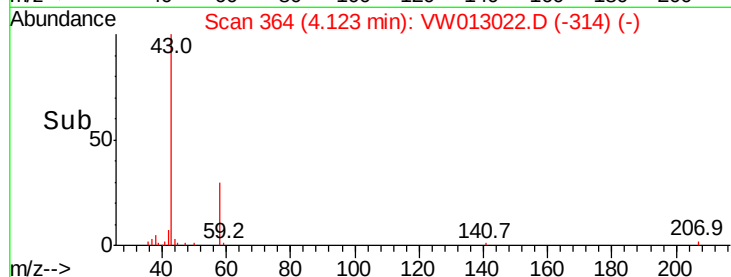
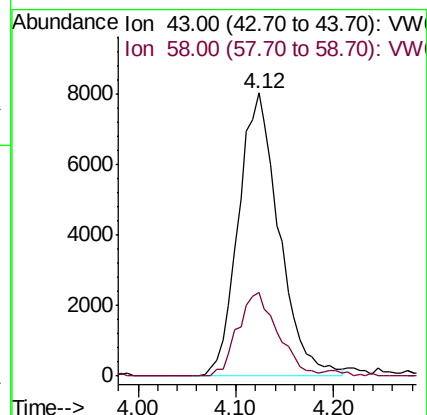
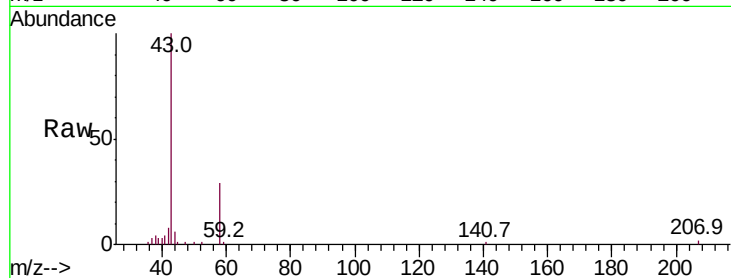
ClientSampled :

Tot Ion: 43 Resp: 23244

Ion Ratio Lower Upper

43 100

58 29.5 22.3 33.5



#17

Carbon Disulfide

Concen: 16.178 ug/l

RT: 4.37 min Scan# 404

Delta R.T. -0.01 min

Lab File: VW013022.D

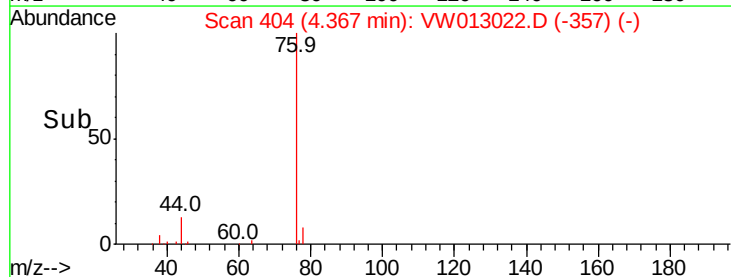
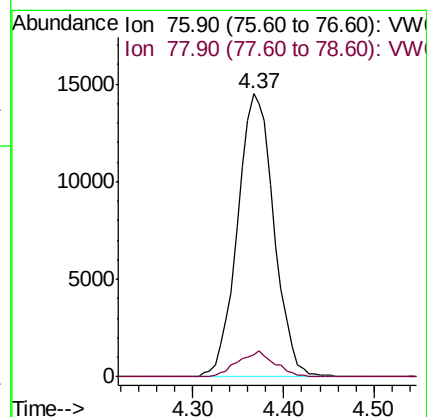
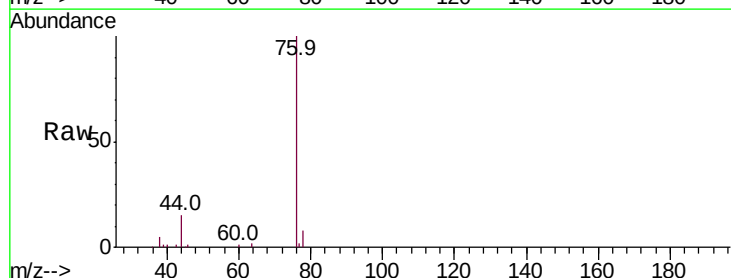
Acq: 15 Sep 2019 05:18

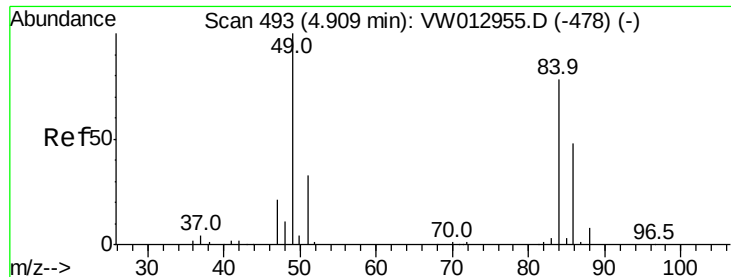
Tgt Ion: 76 Resp: 40353

Ion Ratio Lower Upper

76 100

78 7.7 7.0 10.4





#20

Methylene Chloride

Concen: Below Cal

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

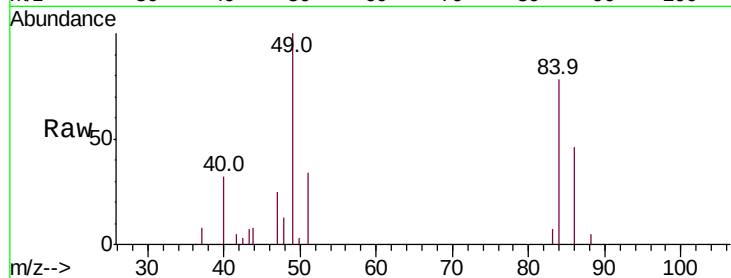
Lab File: VW013022.D

Acq: 15 Sep 2019 05:18

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 84 Resp: 4108

Ion	Ratio	Lower	Upper
84	100		
49	127.9	102.0	153.0
51	43.4	34.0	51.0
86	59.2	48.5	72.7



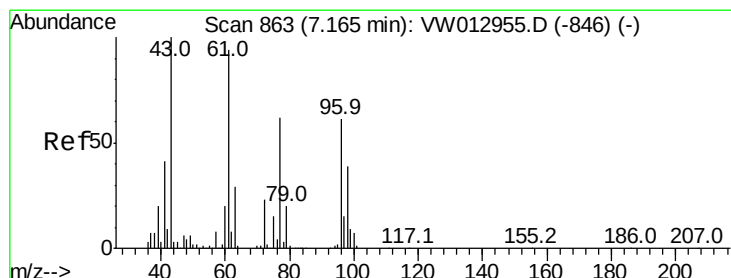
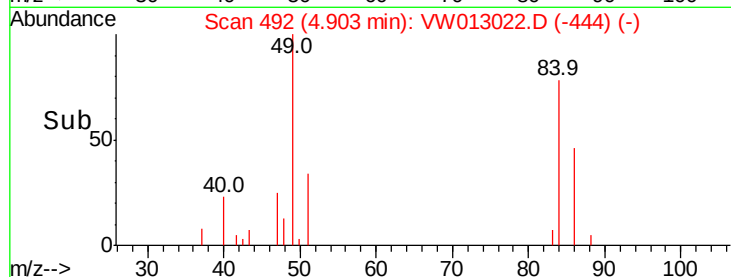
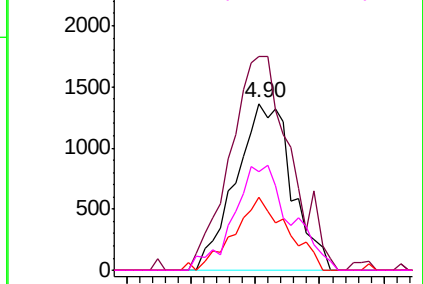
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25

2-Butanone

Concen: 12.657 ug/l

RT: 7.17 min Scan# 864

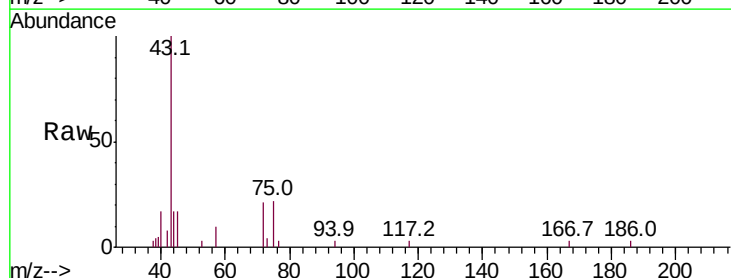
Delta R.T. 0.01 min

Lab File: VW013022.D

Acq: 15 Sep 2019 05:18

Tgt Ion: 43 Resp: 6740

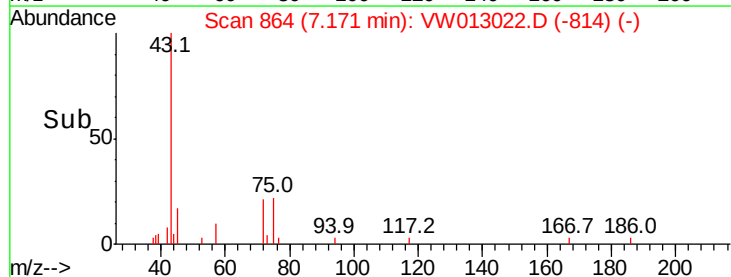
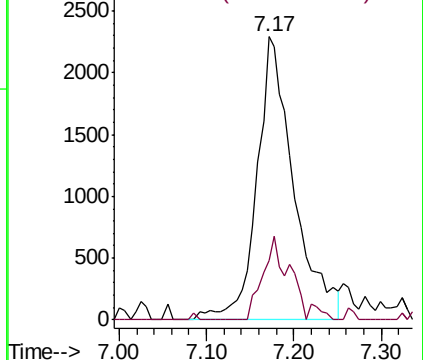
Ion	Ratio	Lower	Upper
43	100		
72	21.1	18.2	27.4

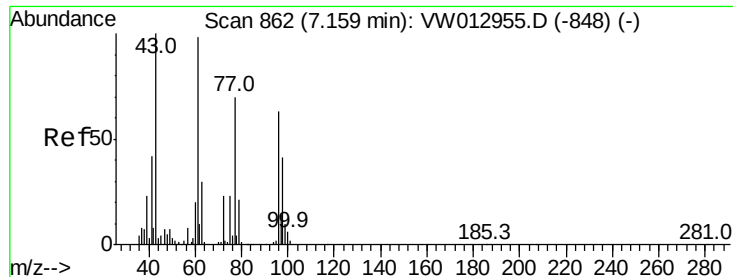


Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

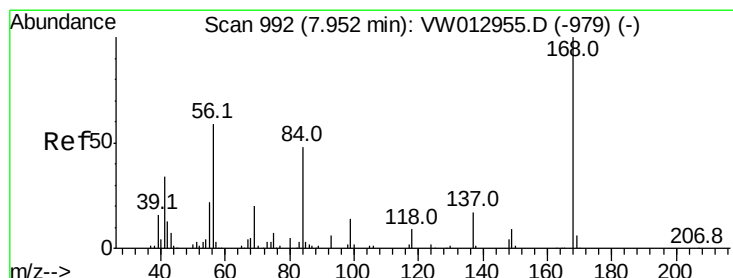
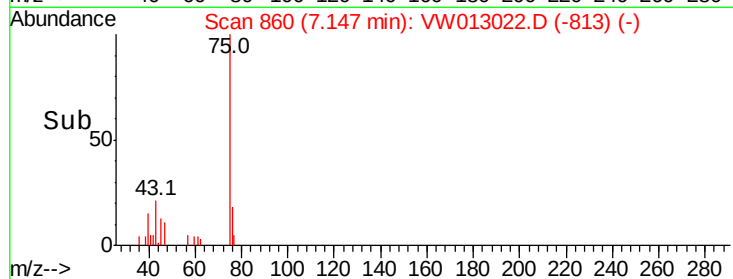
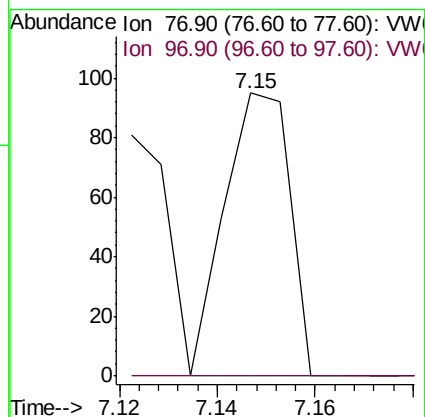
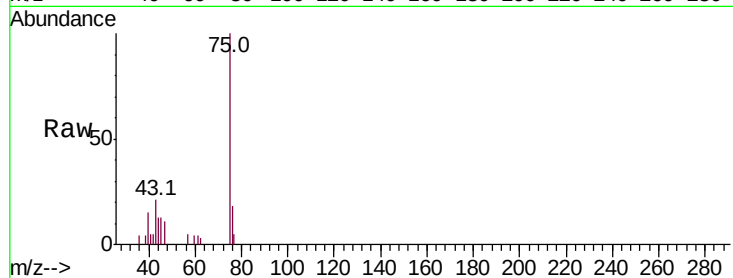




#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.15 min Scan# 860
Delta R.T. -0.01 min
Lab File: VW013022.D
Acq: 15 Sep 2019 05:18

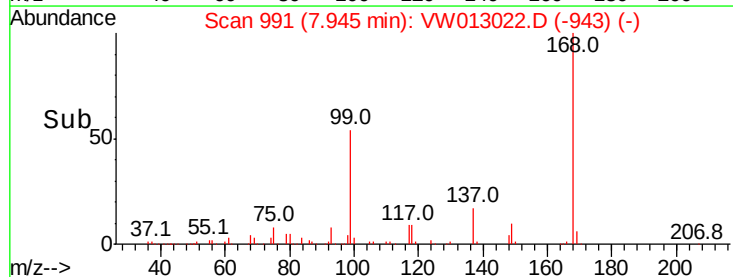
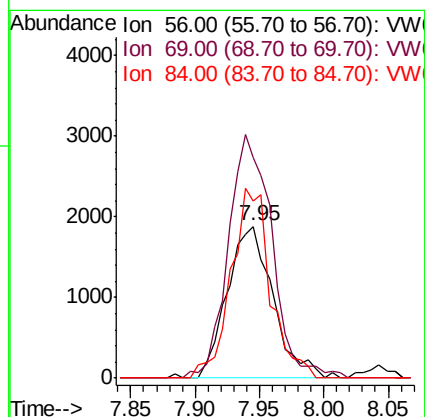
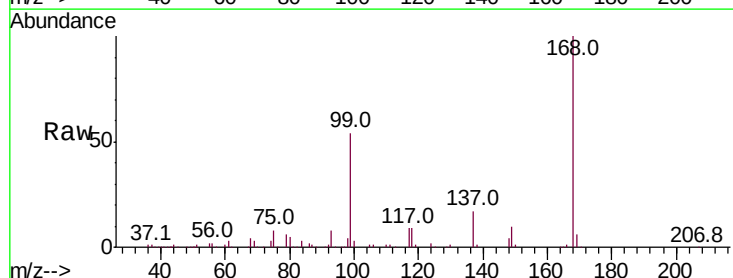
Instrument :
MSVOA_W
ClientSampled :

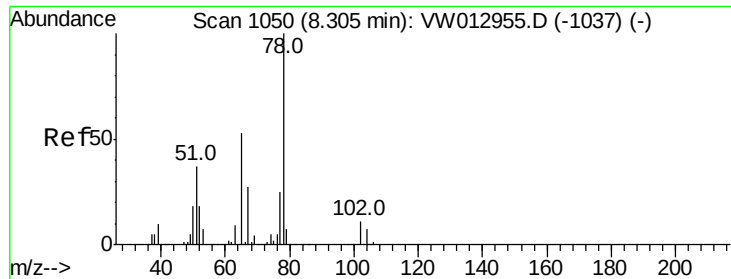
Tot Ion: 77 Resp: 88
Ion Ratio Lower Upper
77 100
97 0.0 10.7 32.1#



#31
Cyclohexane
Concen: Below Cal
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW013022.D
Acq: 15 Sep 2019 05:18

Tgt Ion: 56 Resp: 4671
Ion Ratio Lower Upper
56 100
69 142.5 27.0 40.6#
84 116.8 66.2 99.2#

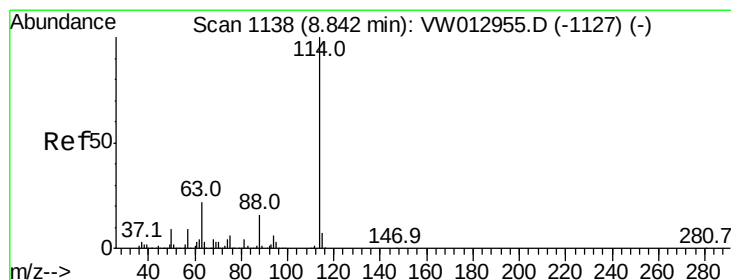
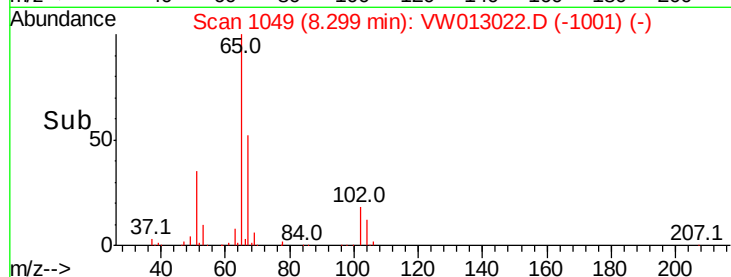
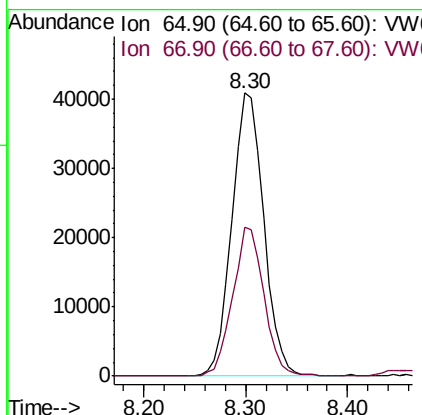
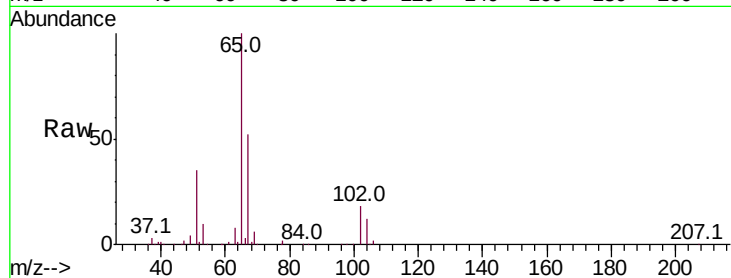




#33
 1,2-Dichloroethane-d4
 Concen: 52.894 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW013022.D
 Acq: 15 Sep 2019 05:18

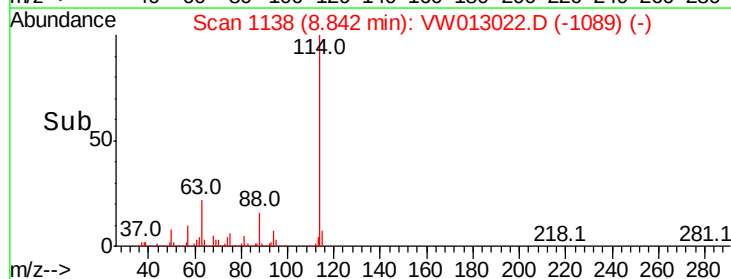
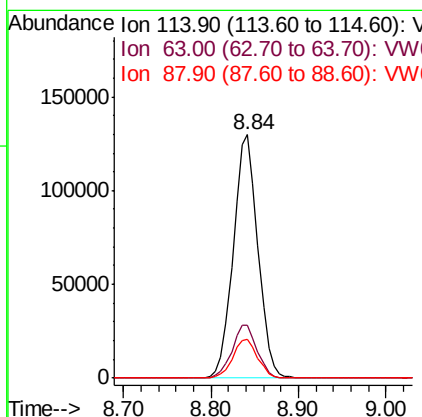
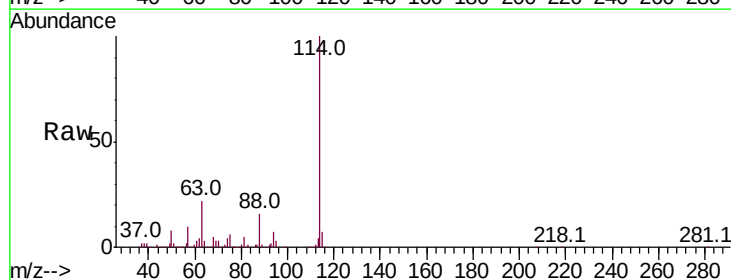
Instrument :
 MSVOA_W
 ClientSampleId :

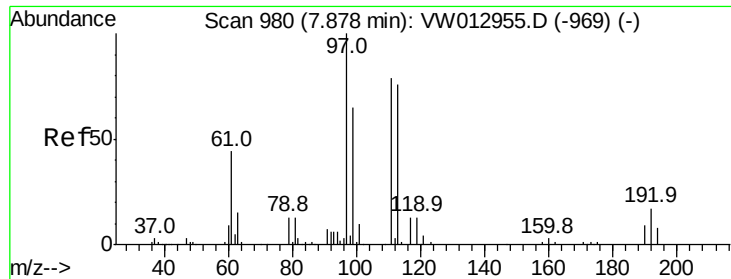
Tot Ion: 65 Resp: 88581
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013022.D
 Acq: 15 Sep 2019 05:18

Tgt Ion: 114 Resp: 253864
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 43.4
 88 15.9 0.0 31.6

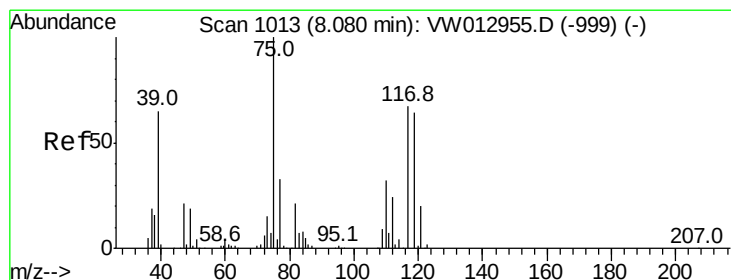
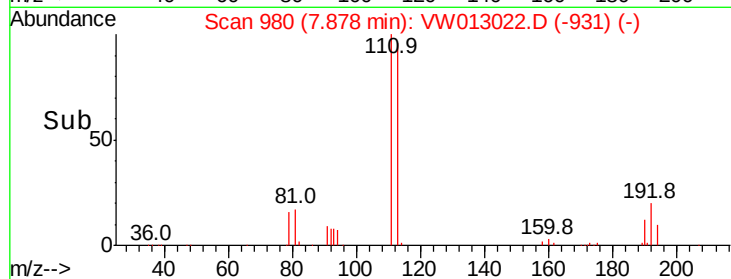
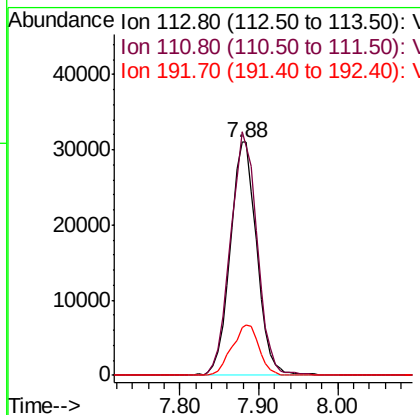
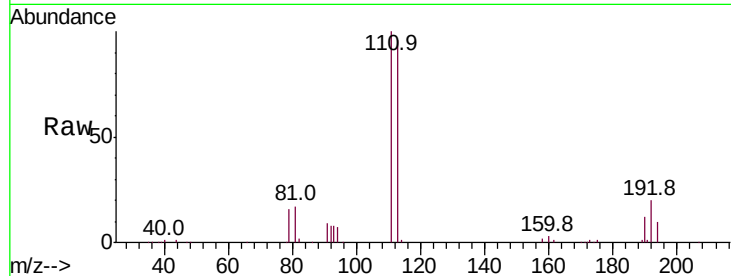




#35
 Dibromofluoromethane
 Concen: 52.684 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW013022.D
 Acq: 15 Sep 2019 05:18

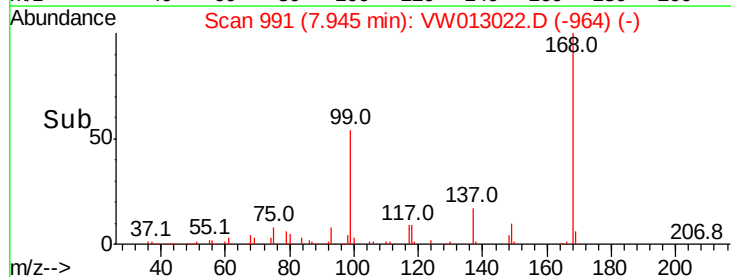
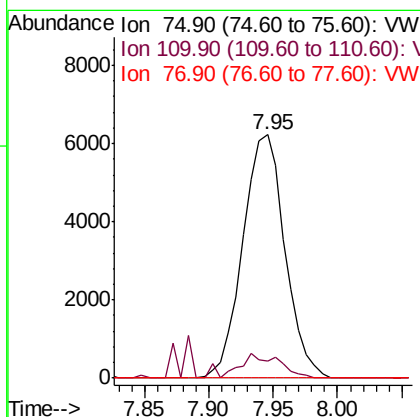
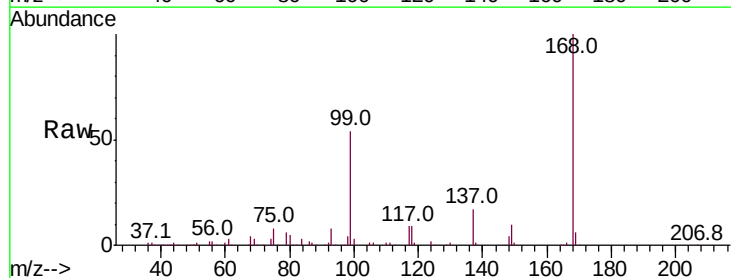
Instrument :
 MSVOA_W
 ClientSampleId :

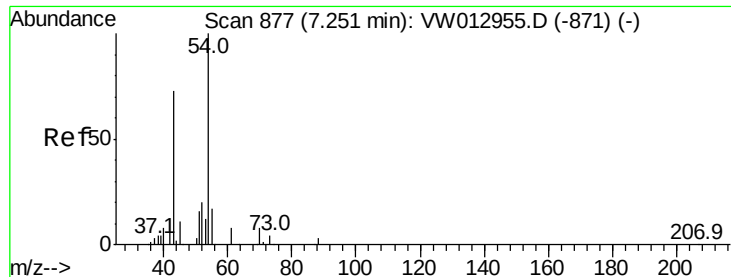
Tot Ion:113 Resp: 72572
 Ion Ratio Lower Upper
 113 100
 111 105.0 82.8 124.2
 192 22.0 17.8 26.8



#36
 1,1-Dichloropropene
 Concen: 6.928 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW013022.D
 Acq: 15 Sep 2019 05:18

Tgt Ion: 75 Resp: 14054
 Ion Ratio Lower Upper
 75 100
 110 9.1 16.4 49.1#
 77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 6.260 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.08 min

Lab File: VW013022.D

Acq: 15 Sep 2019 05:18

Instrument :

MSVOA_W

ClientSampleId :

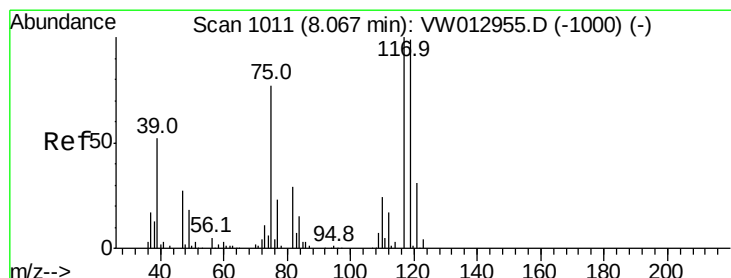
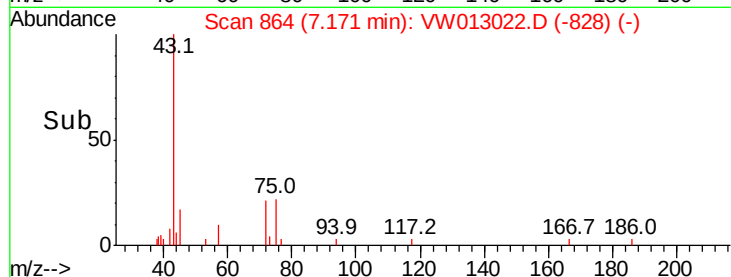
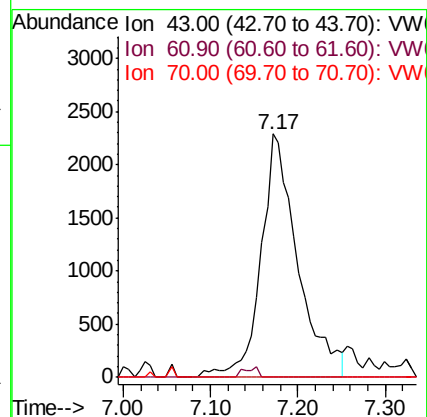
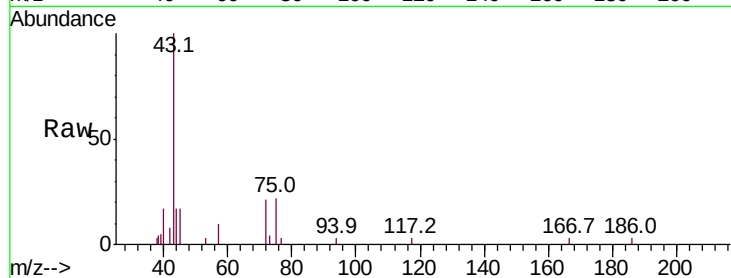
Tot Ion: 43 Resp: 6740

Ion Ratio Lower Upper

43 100

61 1.6 9.6 14.4#

70 0.0 7.6 11.4#



#38

Carbon Tetrachloride

Concen: 8.310 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW013022.D

Acq: 15 Sep 2019 05:18

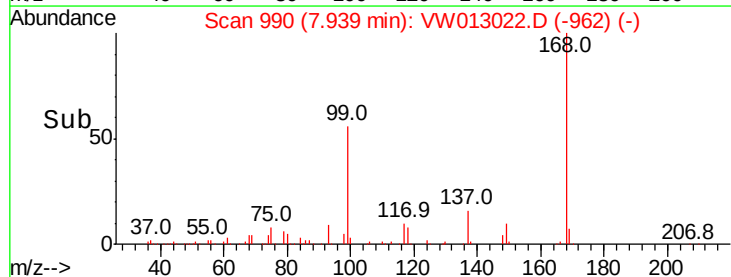
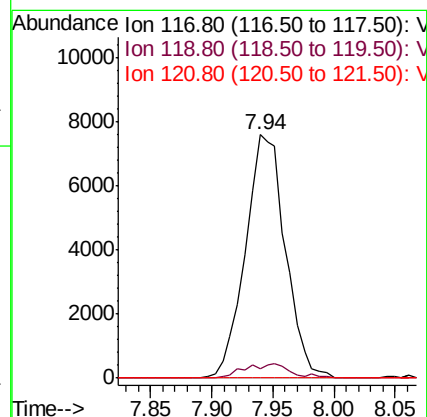
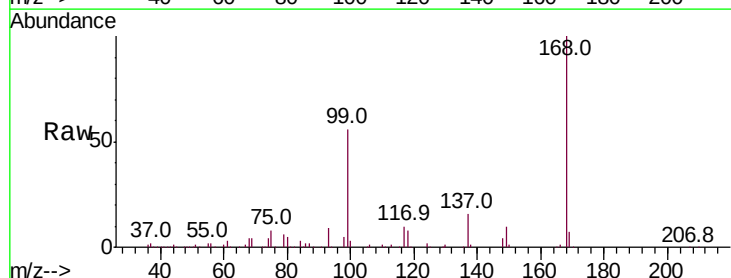
Tgt Ion: 117 Resp: 17275

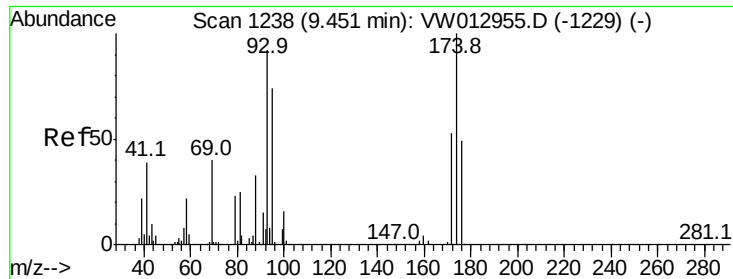
Ion Ratio Lower Upper

117 100

119 3.8 79.4 119.0#

121 0.0 24.6 36.8#

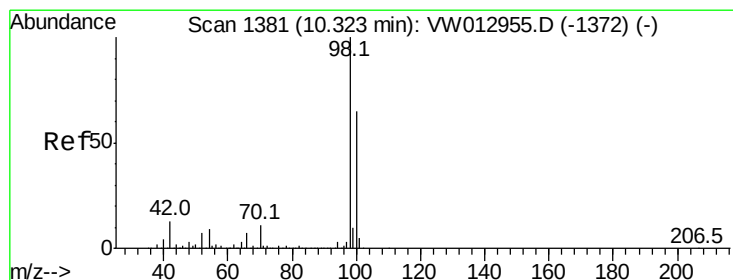
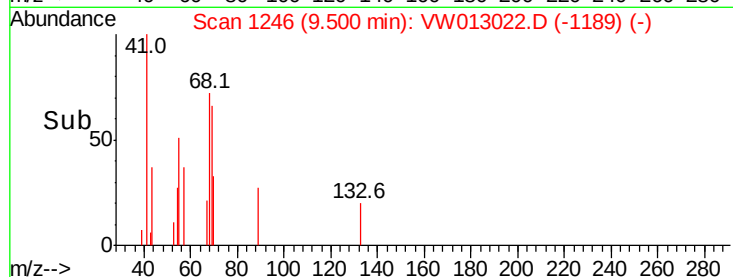
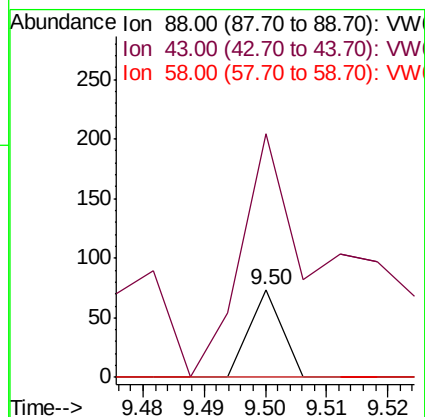
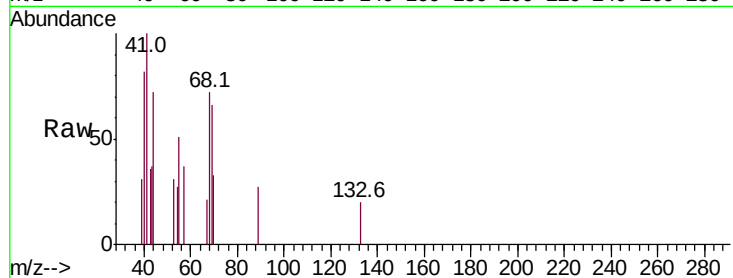




#49
1,4-Dioxane
Concen: 2.235 ug/l
RT: 9.50 min Scan# 1246
Delta R.T. 0.05 min
Lab File: VW013022.D
Acq: 15 Sep 2019 05:18

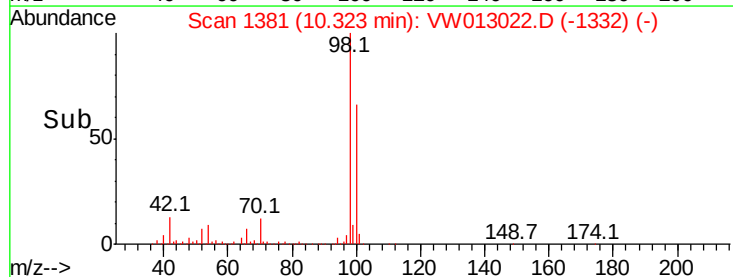
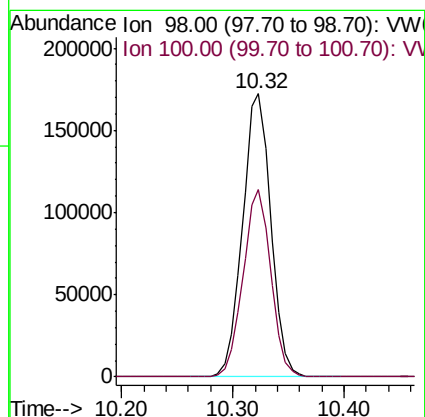
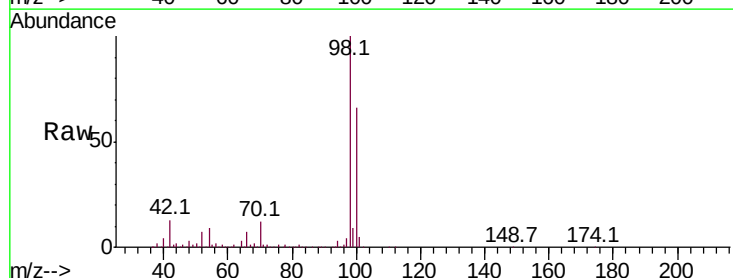
Instrument :
MSVOA_W
ClientSampled :

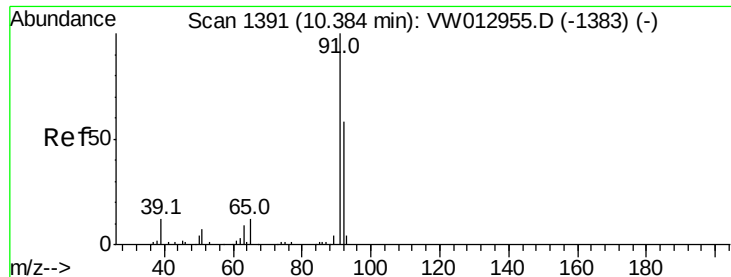
Tot Ion: 88 Resp: 27
Ion Ratio Lower Upper
88 100
43 911.1 31.3 46.9#
58 0.0 60.2 90.2#



#50
Toluene-d8
Concen: 56.249 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW013022.D
Acq: 15 Sep 2019 05:18

Tgt Ion: 98 Resp: 303199
Ion Ratio Lower Upper
98 100
100 65.0 52.1 78.1





#52

Toluene

Concen: 1.461 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW013022.D

Acq: 15 Sep 2019 05:18

Instrument :

MSVOA_W

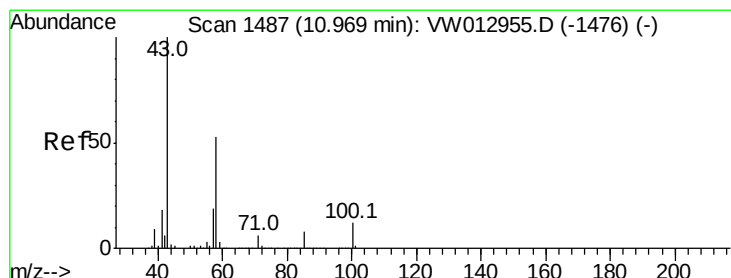
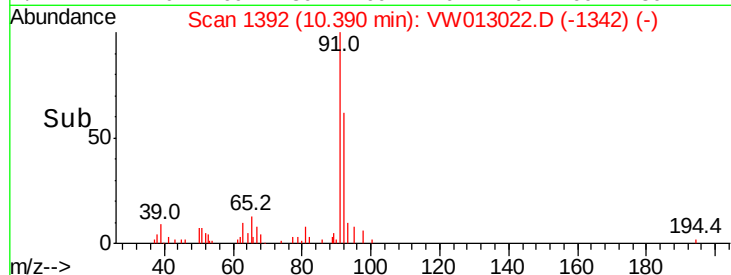
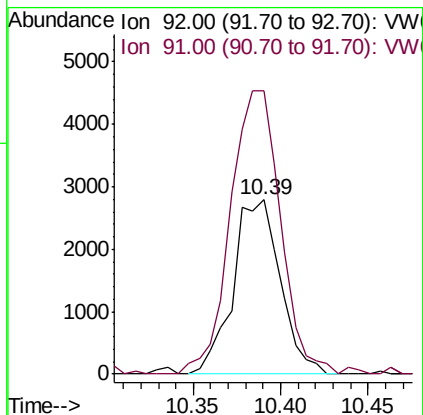
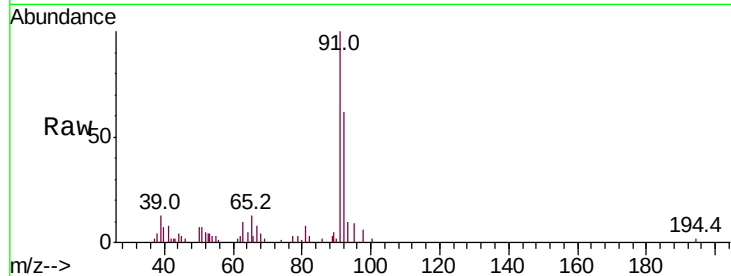
ClientSampleId :

Tot Ion: 92 Resp: 5259

Ion Ratio Lower Upper

92 100

91 172.1 137.5 206.3



#59

2-Hexanone

Concen: 1.608 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.04 min

Lab File: VW013022.D

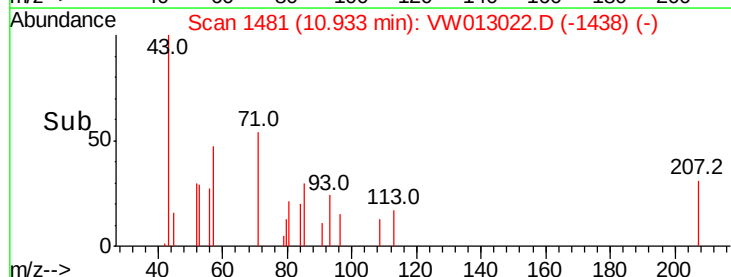
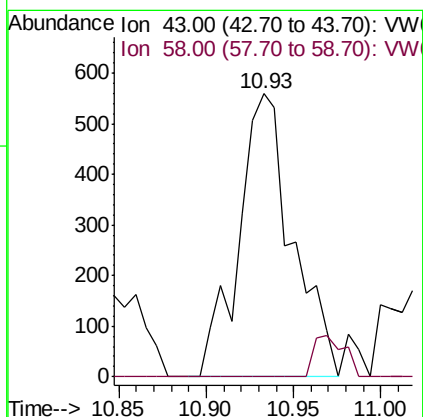
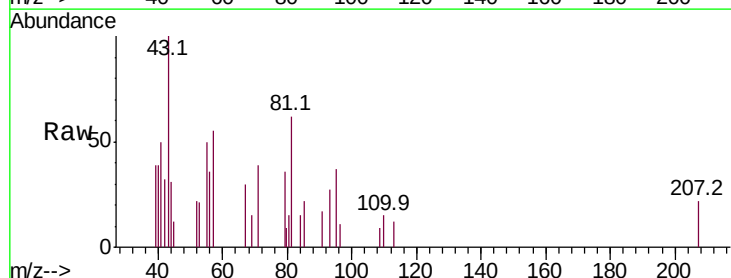
Acq: 15 Sep 2019 05:18

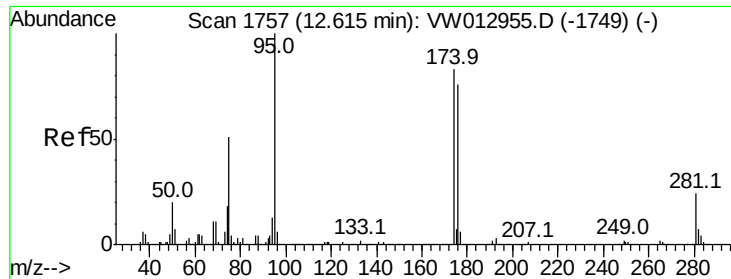
Tgt Ion: 43 Resp: 1195

Ion Ratio Lower Upper

43 100

58 0.0 25.8 77.3#

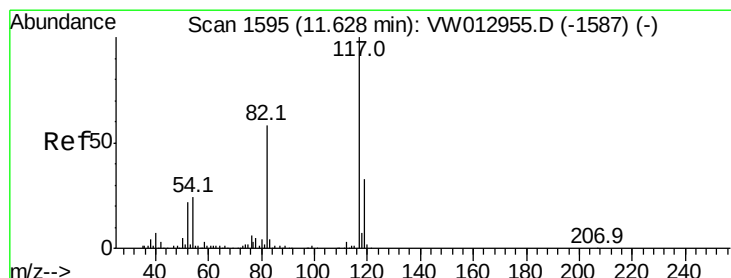
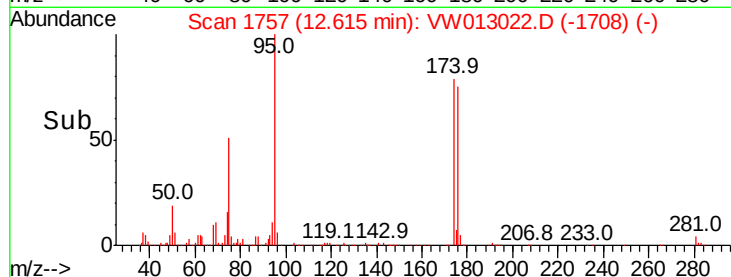
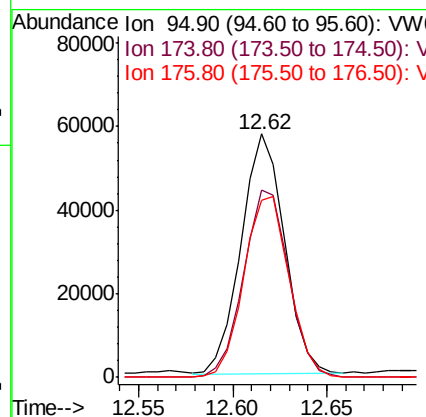
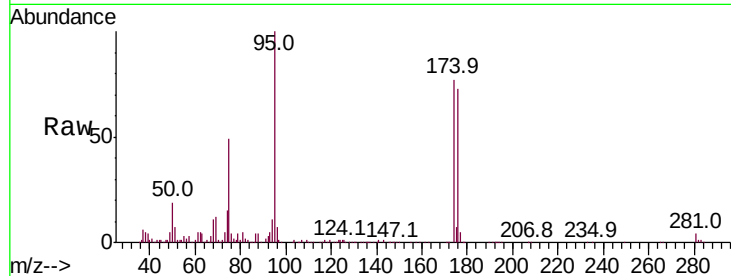




#62
4-Bromofluorobenzene
Concen: 47.192 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013022.D
Acq: 15 Sep 2019 05:18

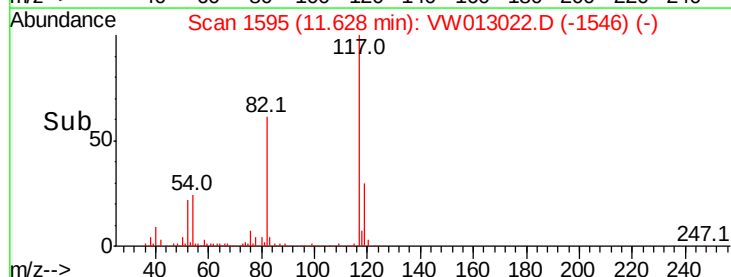
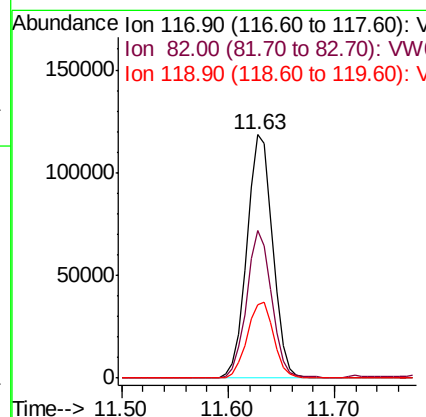
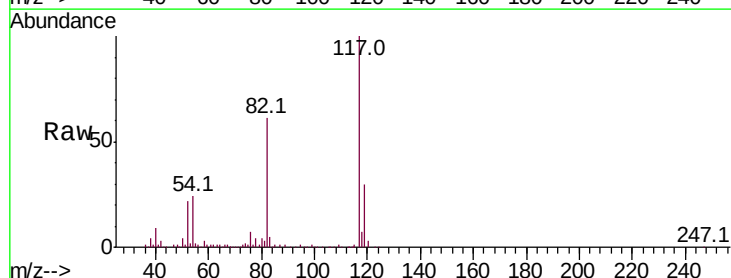
Instrument :
MSVOA_W
ClientSampleId :

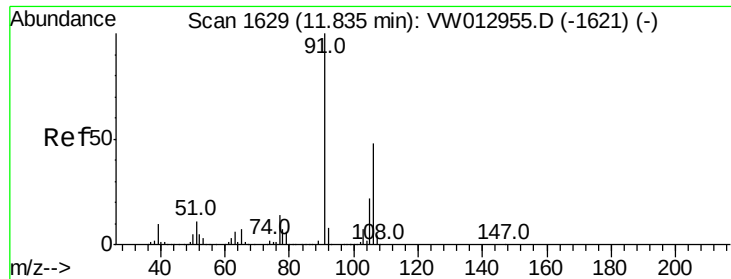
Tot Ion: 95 Resp: 91470
Ion Ratio Lower Upper
95 100
174 81.4 0.0 170.4
176 78.9 0.0 164.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013022.D
Acq: 15 Sep 2019 05:18

Tgt Ion: 117 Resp: 202052
Ion Ratio Lower Upper
117 100
82 60.7 46.3 69.5
119 30.3 26.2 39.4

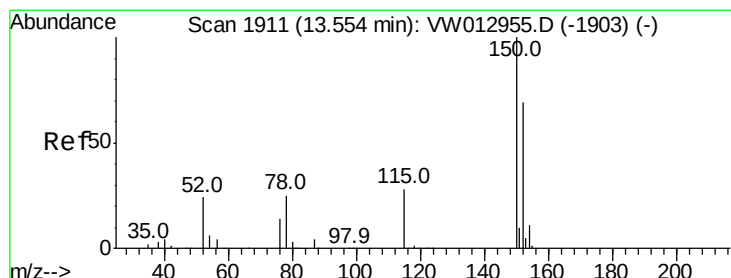
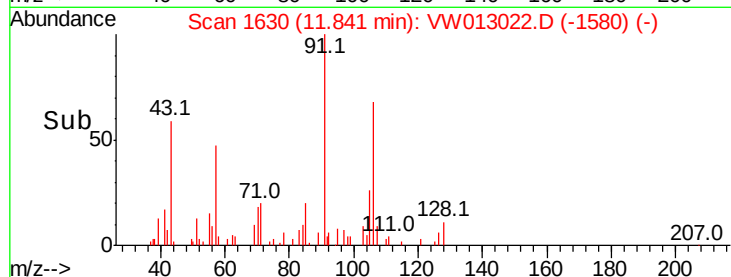
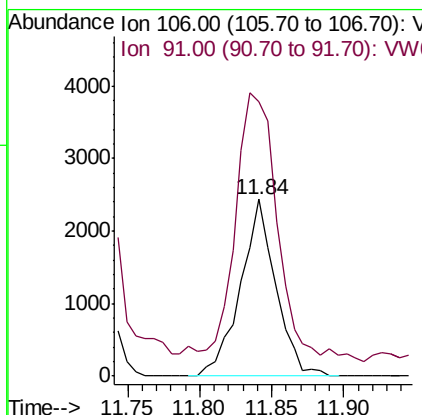
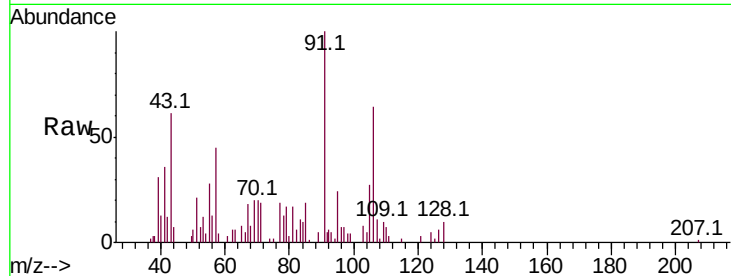




#68
m/p-Xvlenes
Concen: 1.707 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.01 min
Lab File: VW013022.D
Acq: 15 Sep 2019 05:18

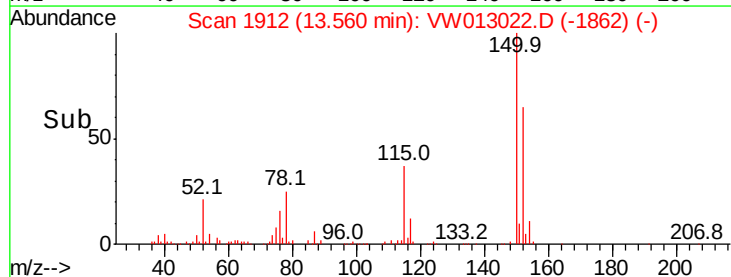
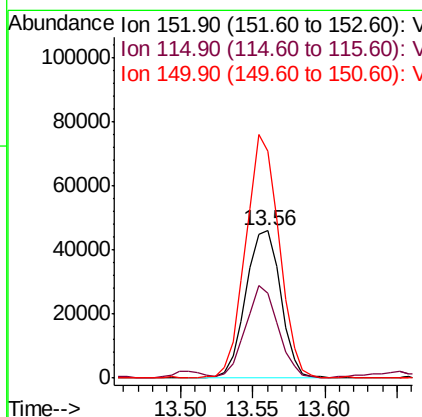
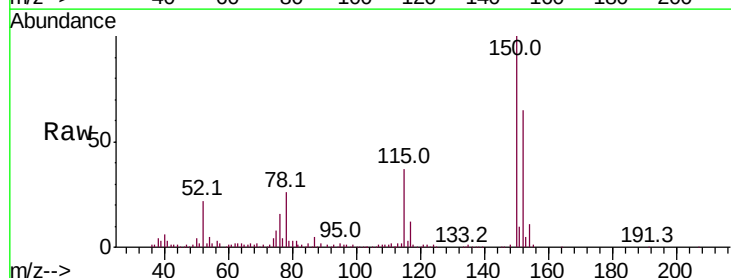
Instrument :
MSVOA_W
ClientSampleId :

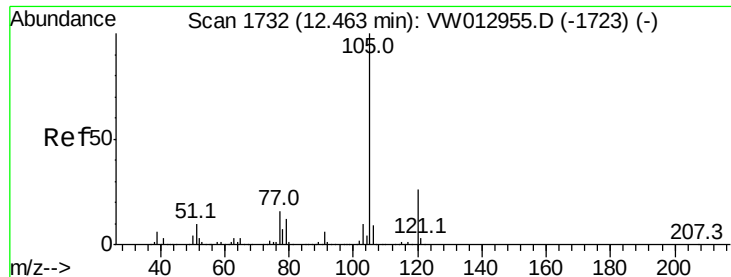
Tot Ion:106 Resp: 4146
Ion Ratio Lower Upper
106 100
91 186.1 165.8 248.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.01 min
Lab File: VW013022.D
Acq: 15 Sep 2019 05:18

Tgt Ion:152 Resp: 76618
Ion Ratio Lower Upper
152 100
115 58.1 28.8 86.4
150 158.4 0.0 340.2

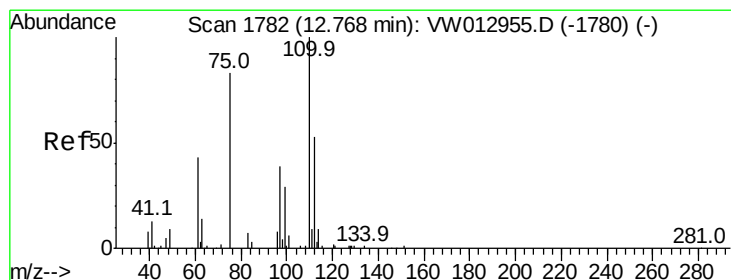
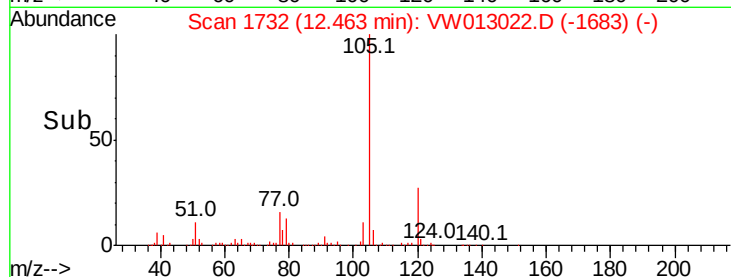
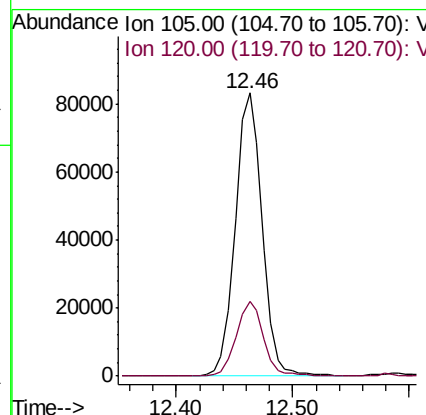
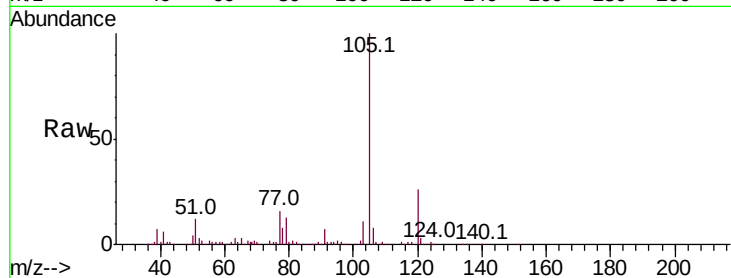




#73
Isopropylbenzene
Concen: 26.248 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VW013022.D
Acq: 15 Sep 2019 05:18

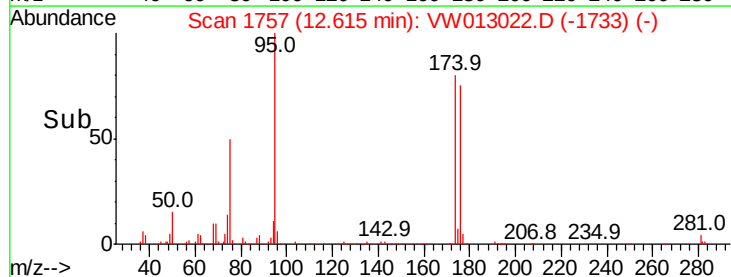
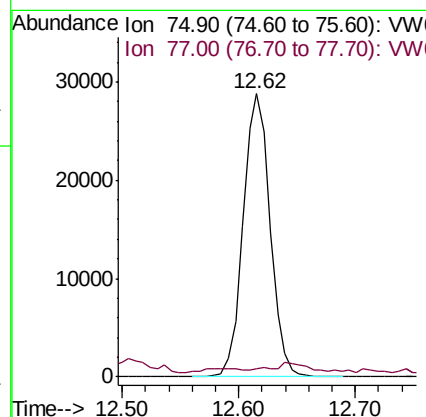
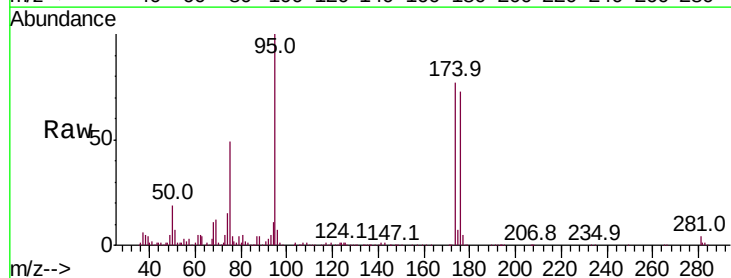
Instrument :
MSVOA_W
ClientSampleId :

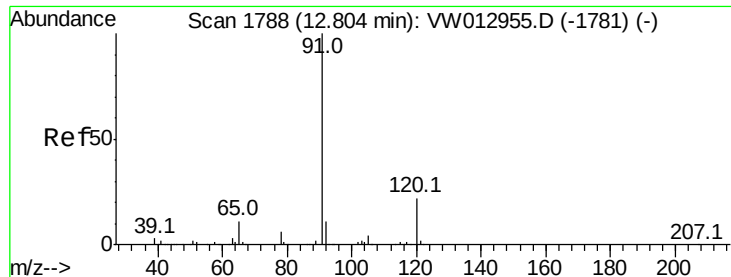
Tot Ion:105 Resp: 133298
Ion Ratio Lower Upper
105 100
120 26.9 13.0 39.0



#76
1,2,3-Trichloropropane
Concen: 69.215 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.15 min
Lab File: VW013022.D
Acq: 15 Sep 2019 05:18

Tgt Ion: 75 Resp: 46451
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#78

n-propylbenzene

Concen: 3.260 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW013022.D

Acq: 15 Sep 2019 05:18

Instrument :

MSVOA_W

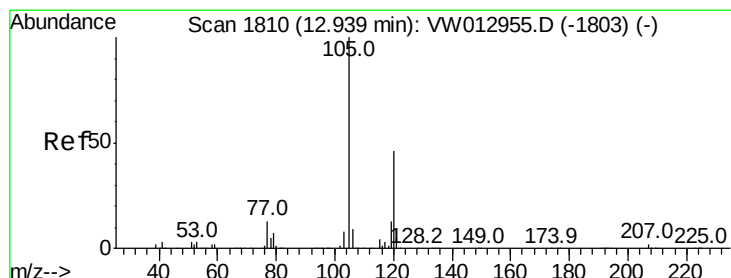
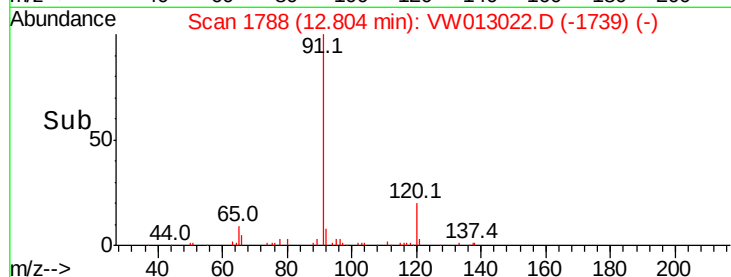
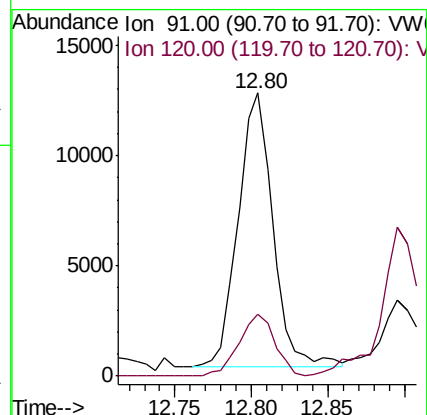
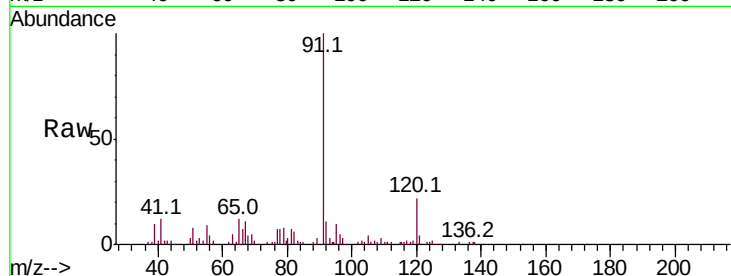
ClientSampleId :

Tot Ion: 91 Resp: 19474

Ion Ratio Lower Upper

91 100

120 23.4 11.2 33.5



#80

1,3,5-Trimethylbenzene

Concen: 8.758 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. -0.04 min

Lab File: VW013022.D

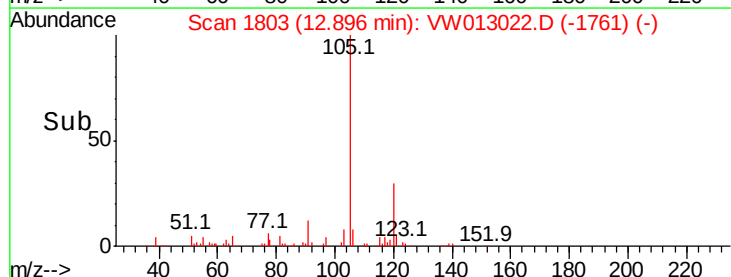
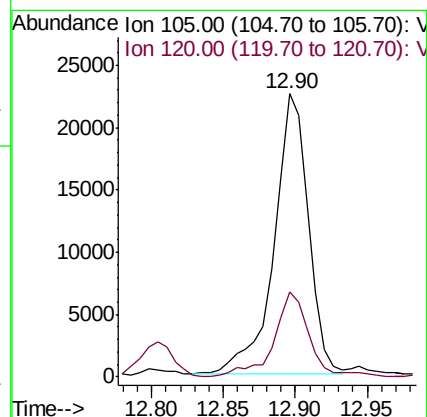
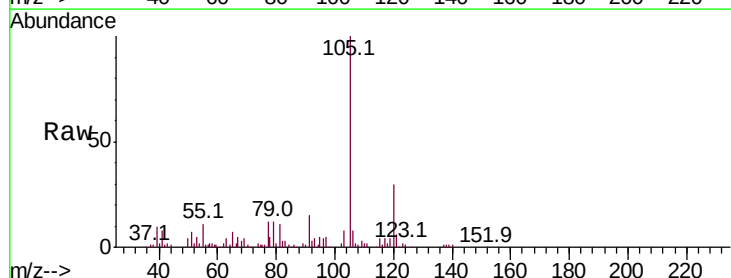
Acq: 15 Sep 2019 05:18

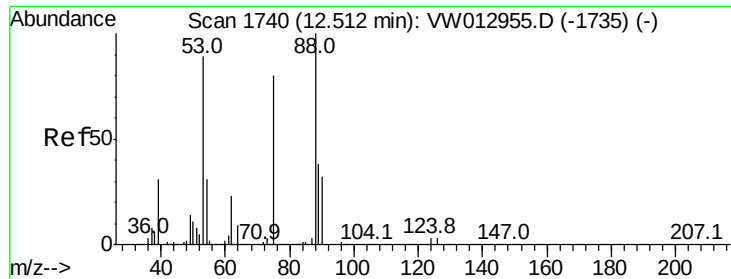
Tgt Ion:105 Resp: 37629

Ion Ratio Lower Upper

105 100

120 31.3 24.2 72.6





#81

trans-1,4-Dichloro-2-butene

Concen: 6.307 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.05 min

Lab File: VW013022.D

Acq: 15 Sep 2019 05:18

Instrument :

MSVOA_W

ClientSampleId :

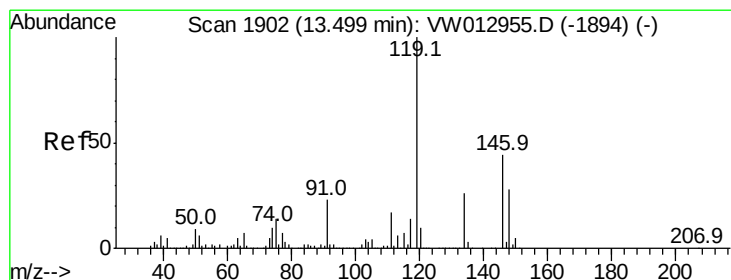
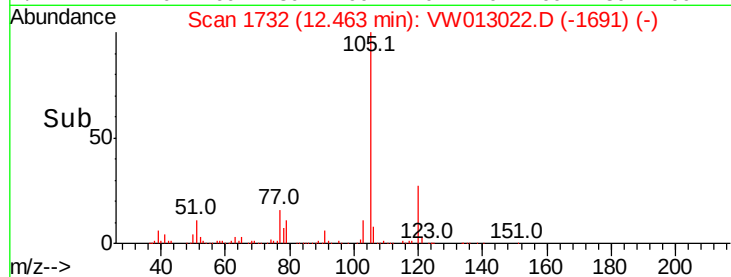
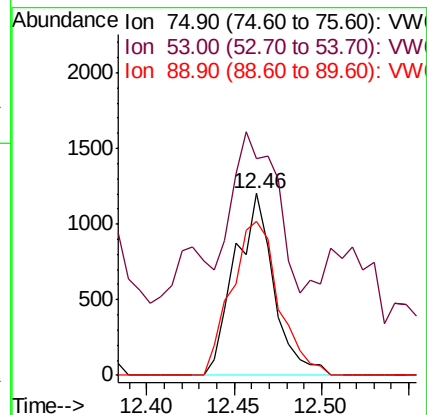
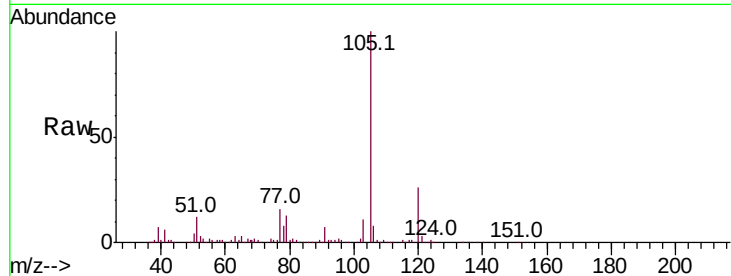
Tot Ion: 75 Resp: 1866

Ion Ratio Lower Upper

75 100

53 106.7 85.6 128.4

89 102.9 37.2 55.8#



#86

p-Isopropyltoluene

Concen: 5.877 ug/l

RT: 13.65 min Scan# 1927

Delta R.T. 0.15 min

Lab File: VW013022.D

Acq: 15 Sep 2019 05:18

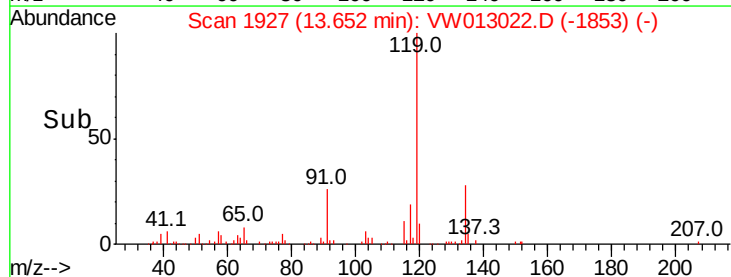
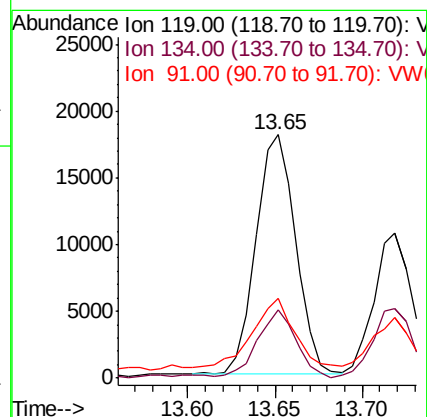
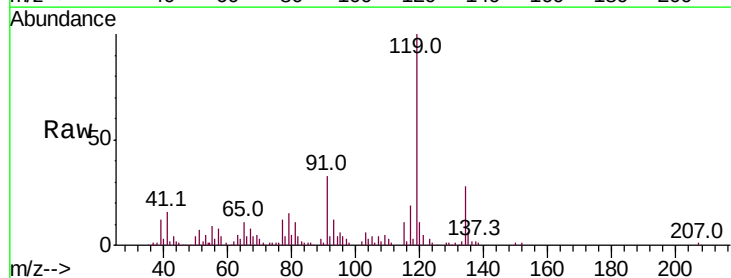
Tgt Ion: 119 Resp: 28251

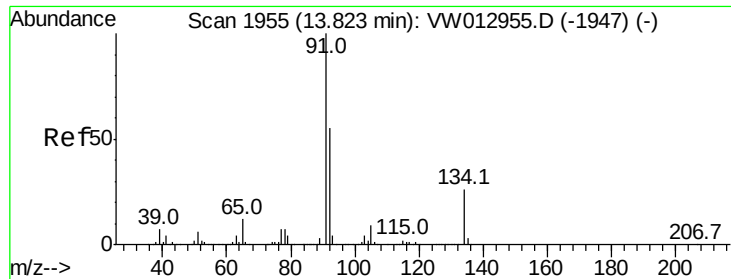
Ion Ratio Lower Upper

119 100

134 27.7 12.8 38.3

91 29.2 11.8 35.4

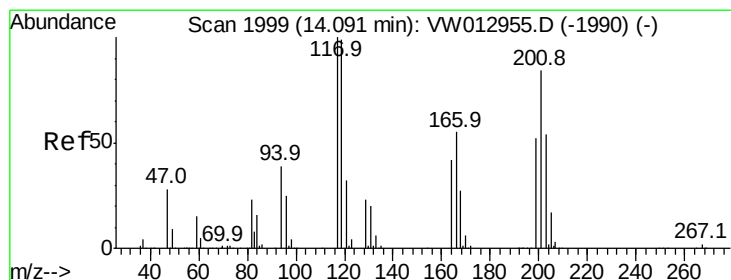
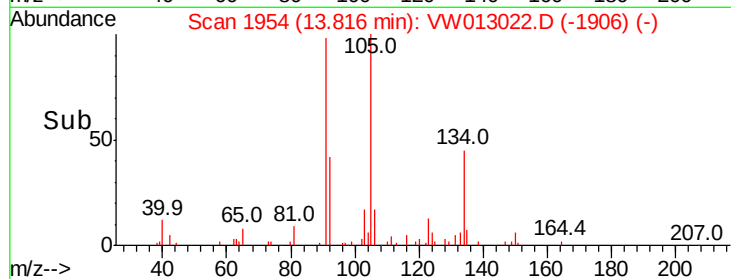
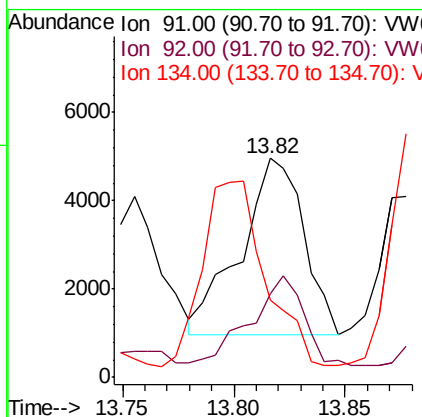
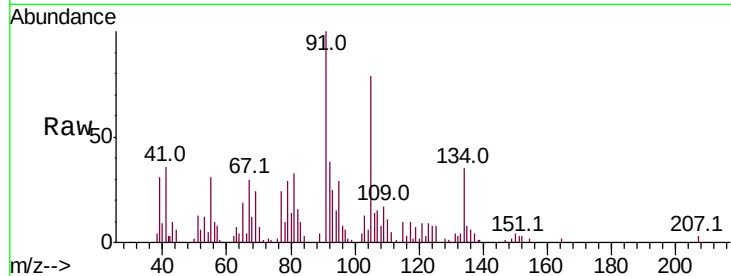




#89
n-Butylbenzene
Concen: 1.732 ug/l
RT: 13.82 min Scan# 1954
Delta R.T. -0.01 min
Lab File: VW013022.D
Acq: 15 Sep 2019 05:18

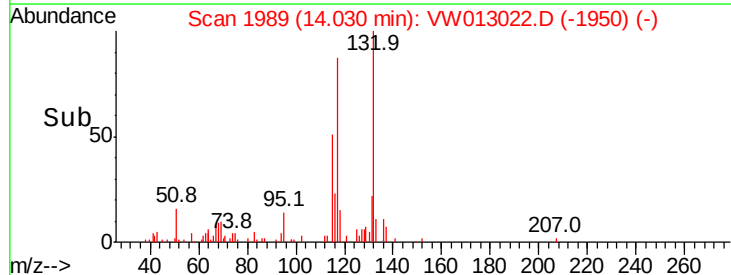
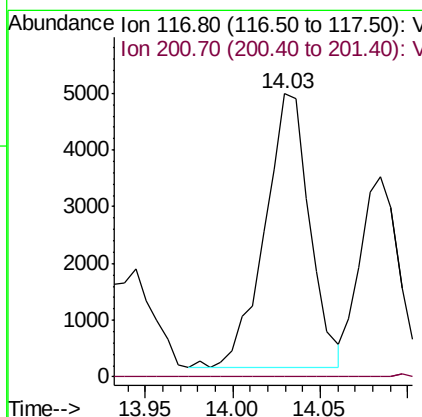
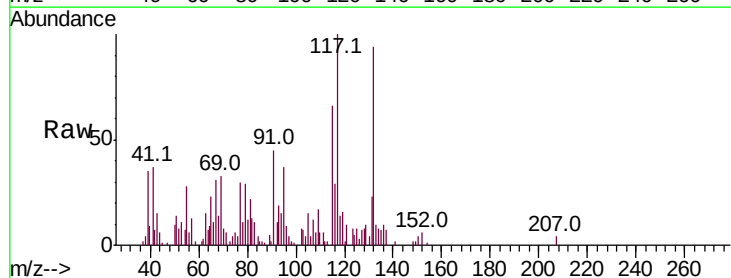
Instrument :
MSVOA_W
ClientSampled :

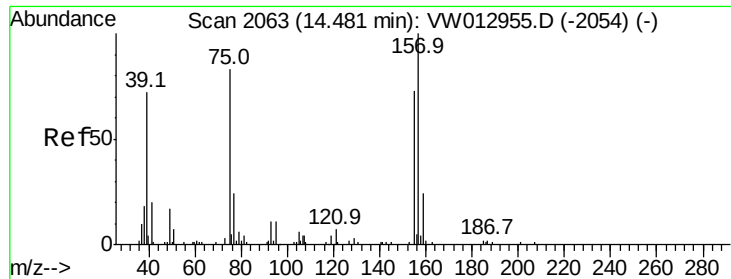
Tot Ion: 91 Resp: 7854
Ion Ratio Lower Upper
91 100
92 43.7 27.2 81.5
134 116.0 13.1 39.1#



#90
Hexachloroethane
Concen: 10.067 ug/l
RT: 14.03 min Scan# 1989
Delta R.T. -0.06 min
Lab File: VW013022.D
Acq: 15 Sep 2019 05:18

Tgt Ion: 117 Resp: 8672
Ion Ratio Lower Upper
117 100
201 0.0 45.3 135.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 5.274 ug/l

RT: 14.50 min Scan# 2066

Delta R.T. 0.02 min

Lab File: VW013022.D

Acq: 15 Sep 2019 05:18

Instrument :

MSVOA_W

ClientSampled :

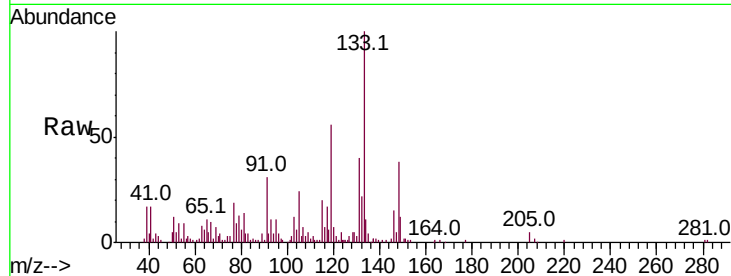
Tot Ion: 75 Resp: 861

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

14.50

400

300

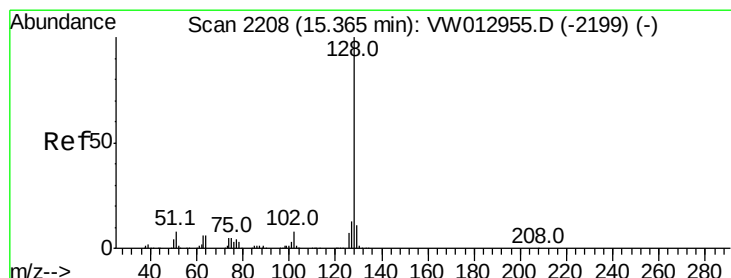
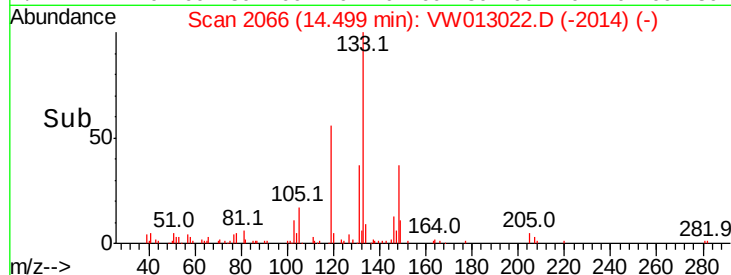
200

100

0

14.45 14.50 14.55

Time-->



#95

Naphthalene

Concen: 3.631 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW013022.D

Acq: 15 Sep 2019 05:18

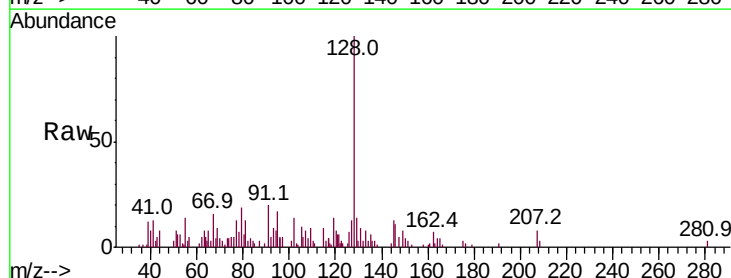
Tgt Ion:128 Resp: 8812

Ion Ratio Lower Upper

128 100

127 17.0 11.0 16.6#

129 11.6 8.6 12.8



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

6000

4000

2000

0

15.30 15.35 15.40

Time-->

