

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW092419\
 Data File : VW013282.D
 Acq On : 24 Sep 2019 17:48
 Operator : SY/VA
 Sample : K5020-07
 Misc : 5.30G/5ML/MSVOA_W/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200050

Quant Time: Sep 25 07:12:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 20 15:58:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-7.95
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-8.84
63) Chlorobenzene-d5	11.52	117	31	50.00	ug/l	-0.10
72) 1,4-Dichlorobenzene-d4	13.50	152	65	50.00	ug/l	-0.06

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount 50.000			Recovery =	0.00%		
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount 50.000			Recovery =	0.00%		
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount 50.000			Recovery =	0.00%		
62) 4-Bromofluorobenzene	12.61	95	271	0.00	ug/l	0.00
Spiked Amount 50.000			Recovery =	0.00%		

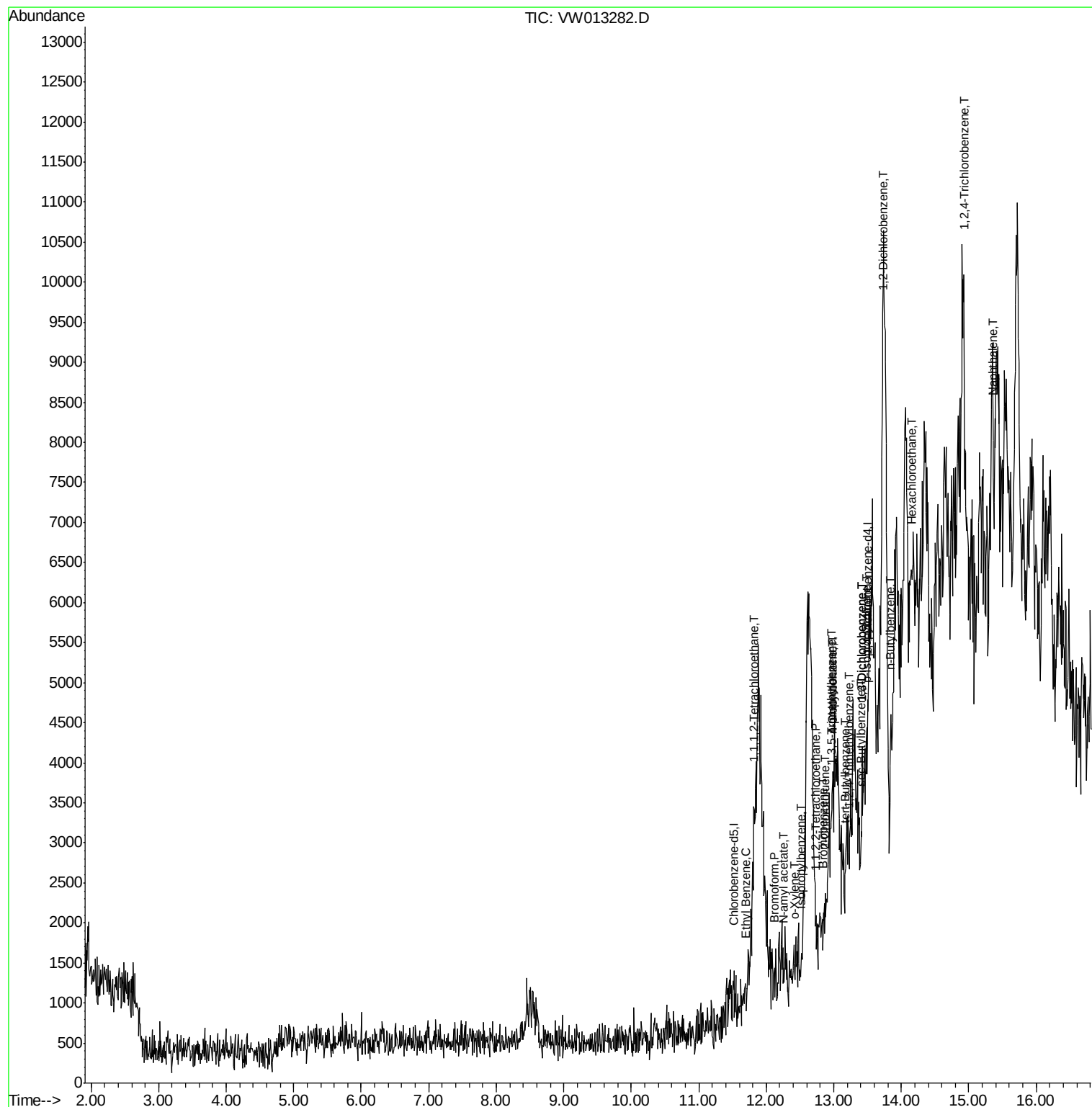
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
66) 1,1,1,2-Tetrachloroethane	11.82	131	19	85.913	ug/l #	64
67) Ethyl Benzene	11.69	91	44	37.513	ug/l #	44
69) o-Xylene	12.42	106	38	91.447	ug/l	98
71) Bromoform	12.12	173	41	350.920	ug/l #	29
73) Isopropylbenzene	12.51	105	85	17.702	ug/l #	48
74) N-amyl acetate	12.26	43	93	87.285	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	12.74	83	126	156.905	ug/l #	26
77) Bromobenzene	12.84	156	87	76.460	ug/l #	1
78) n-propylbenzene	12.98	91	156	27.756	ug/l	84
79) 2-Chlorotoluene	12.87	91	112	35.569	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.96	105	20	4.955	ug/l #	1
82) 4-Chlorotoluene	12.98	91	156	46.981	ug/l #	40
83) tert-Butylbenzene	13.17	119	75	21.171	ug/l #	4
84) 1,2,4-Trimethylbenzene	13.23	105	19	4.731	ug/l #	30
85) sec-Butylbenzene	13.40	105	46	9.418	ug/l #	56
86) p-Isopropyltoluene	13.49	119	106	23.399	ug/l #	1
87) 1,3-Dichlorobenzene	13.43	146	99	45.208	ug/l #	37
88) 1,4-Dichlorobenzene	13.43	146	99	46.096	ug/l #	21
89) n-Butylbenzene	13.83	91	90	21.758	ug/l #	32
90) Hexachloroethane	14.16	117	103	135.344	ug/l #	5
91) 1,2-Dichlorobenzene	13.74	146	44	23.225	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.93	180	23	16.942	ug/l #	1
95) Naphthalene	15.36	128	207	93.230	ug/l #	69

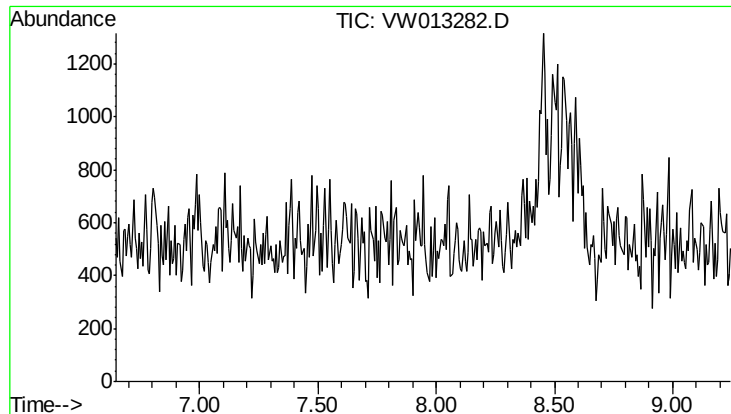
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 7.95 min

Lab File: VW013282.D

Acq: 24 Sep 2019 17:48

Tgt Ion: 168

Sig Exp Ratio

168 100

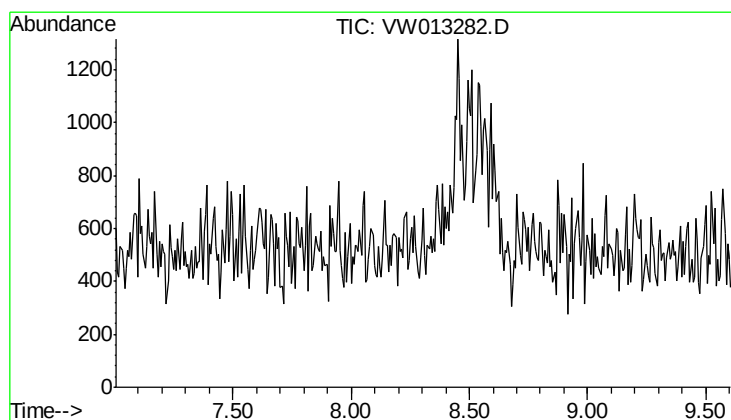
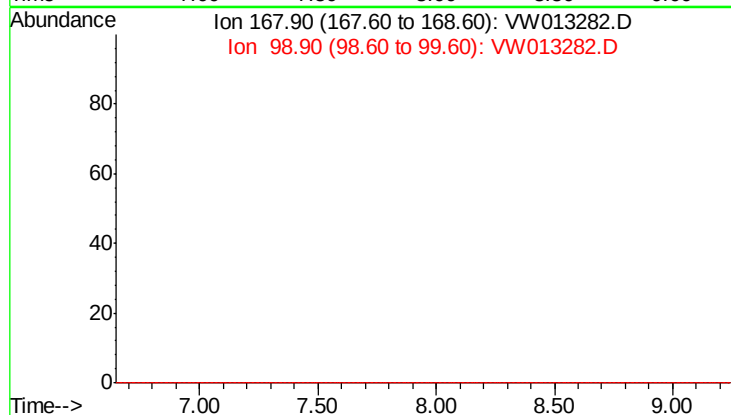
99 50.3

Instrument :

MSVOA_W

ClientSampleId :

RBR-200050



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 8.31 min

Lab File: VW013282.D

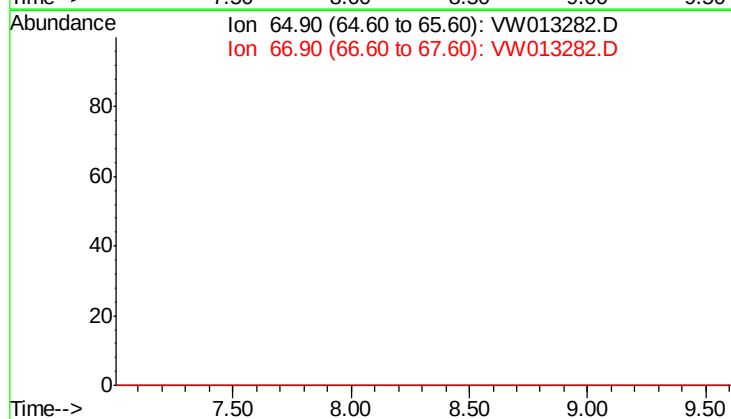
Acq: 24 Sep 2019 17:48

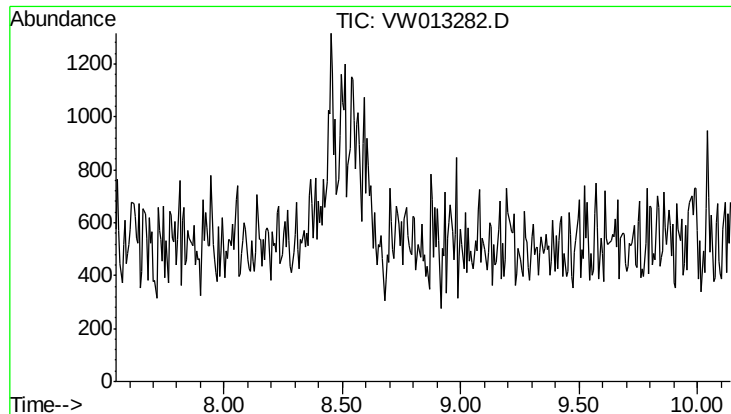
Tgt Ion: 65

Sig Exp Ratio

65 100

67 53.1

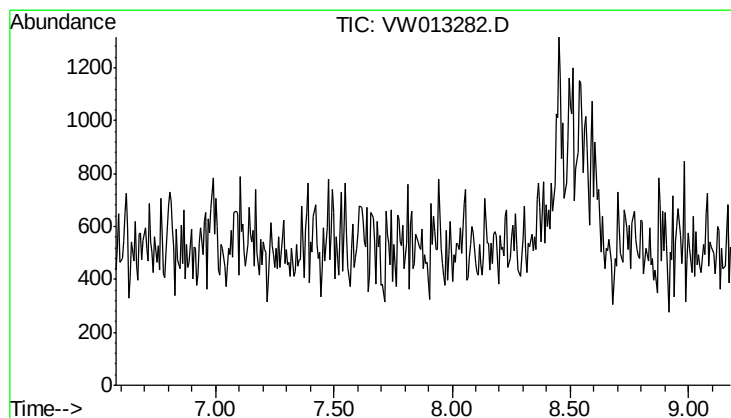
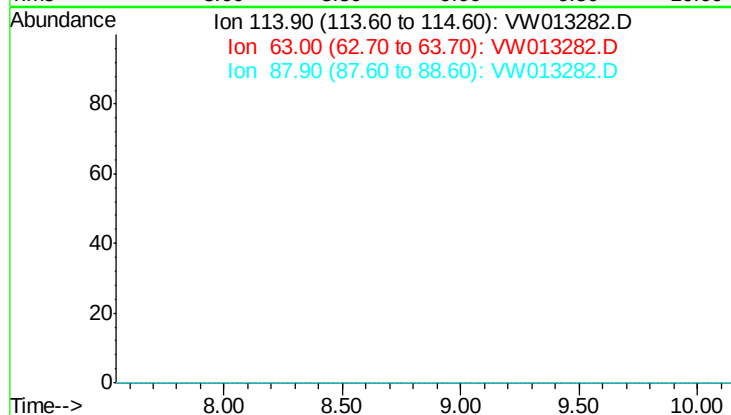




#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 8.84 min
 Lab File: VW013282.D
 Acq: 24 Sep 2019 17:48

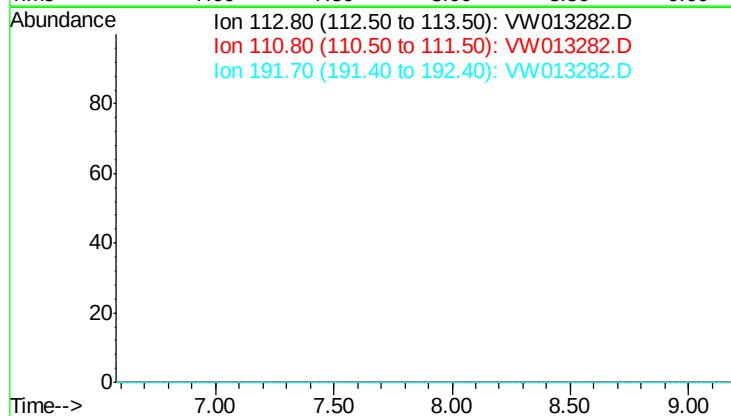
Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200050

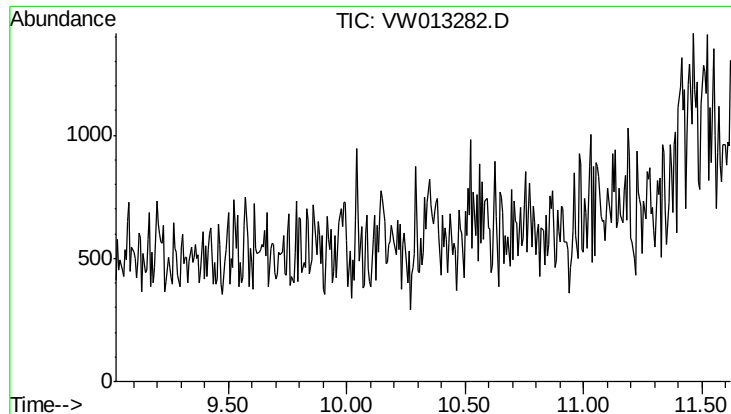
Tgt Ion: 114
 Sig Exp Ratio
 114 100
 63 20.7
 88 16.0



#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 7.88 min
 Lab File: VW013282.D
 Acq: 24 Sep 2019 17:48

Tgt Ion: 113
 Sig Exp Ratio
 113 100
 111 102.4
 192 23.9



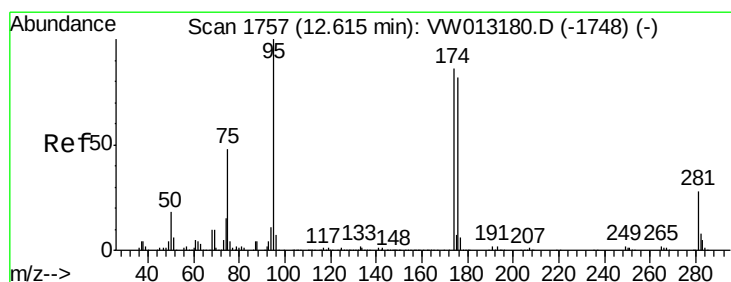
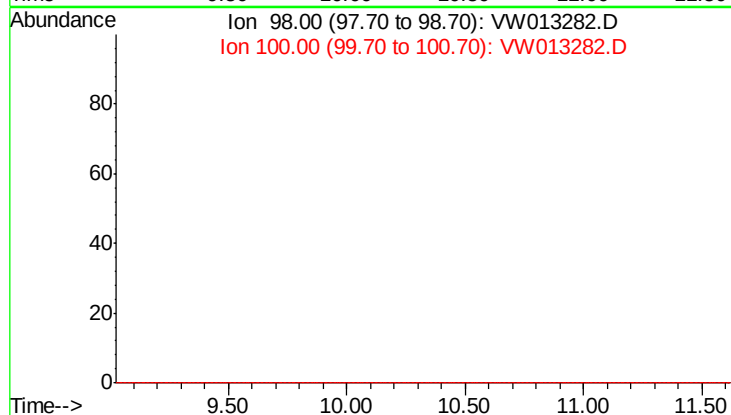


#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.32 min

Lab File: VW013282.D
Acq: 24 Sep 2019 17:48

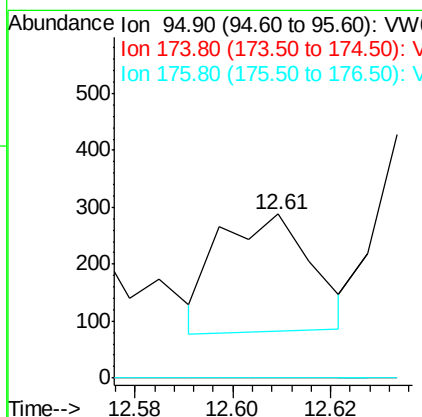
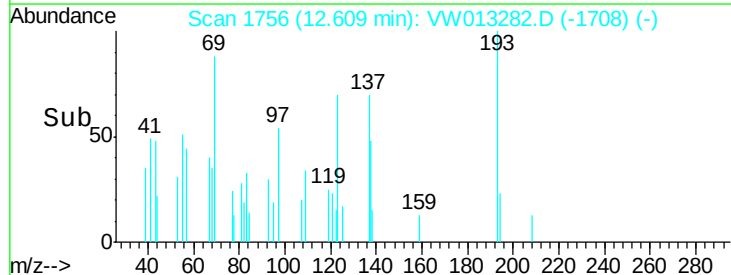
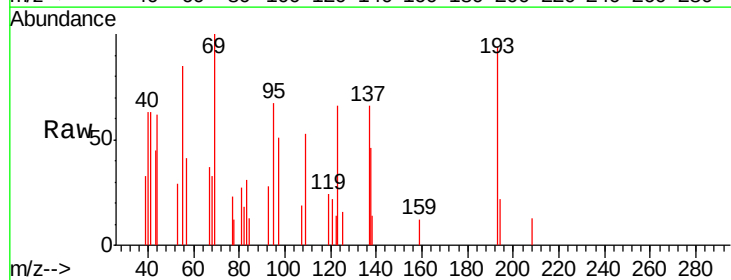
Instrument :
MSVOA_W
ClientSampleId :
RBR-200050

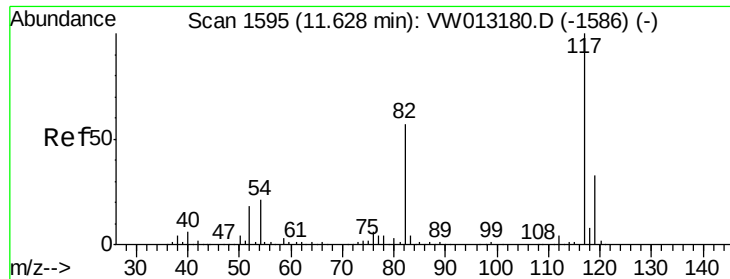
Tgt Ion: 98
Sig Exp Ratio
98 100
100 66.1



#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
RT: 12.61 min Scan# 1756
Delta R.T. -0.01 min
Lab File: VW013282.D
Acq: 24 Sep 2019 17:48

Tgt Ion: 95 Resp: 271
Ion Ratio Lower Upper
95 100
174 0.0 0.0 178.4
176 0.0 0.0 172.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.52 min Scan# 1578

Delta R.T. -0.10 min

Lab File: VW013282.D

Acq: 24 Sep 2019 17:48

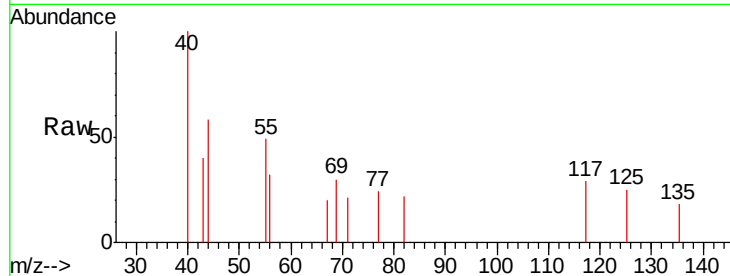
Instrument :

MSVOA_W

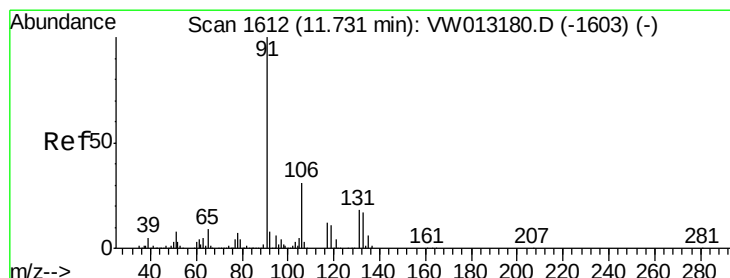
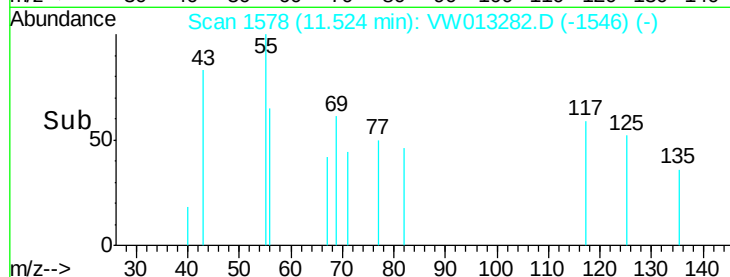
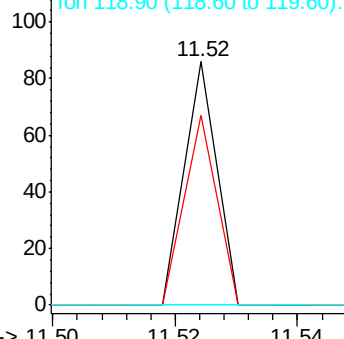
ClientSampled :

RBR-200050

Tgt Ion:	117	Resp:	31
Ion	Ratio	Lower	Upper
117	100		
82	77.9	45.9	68.9#
119	0.0	26.2	39.2#



Abundance Ion 116.90 (116.60 to 117.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 85.913 ug/l

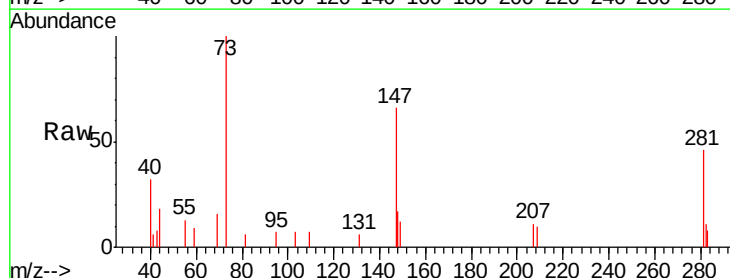
RT: 11.82 min Scan# 1626

Delta R.T. 0.09 min

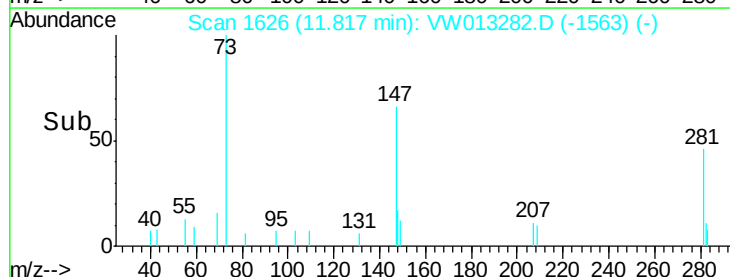
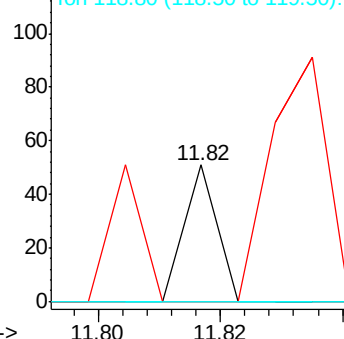
Lab File: VW013282.D

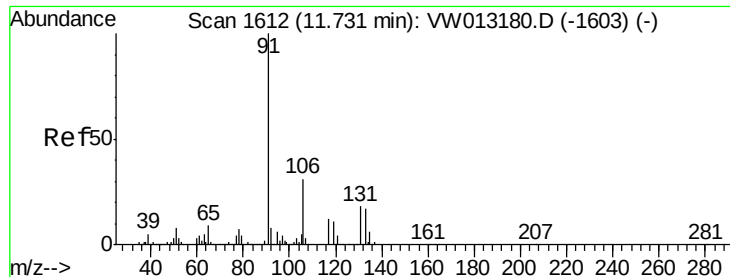
Acq: 24 Sep 2019 17:48

Tgt Ion:	131	Resp:	19
Ion	Ratio	Lower	Upper
131	100		
133	100.0	47.5	142.6
119	0.0	32.5	97.5#



Abundance Ion 130.80 (130.50 to 131.50): V

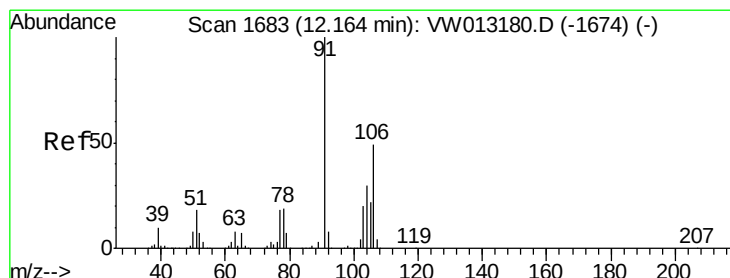
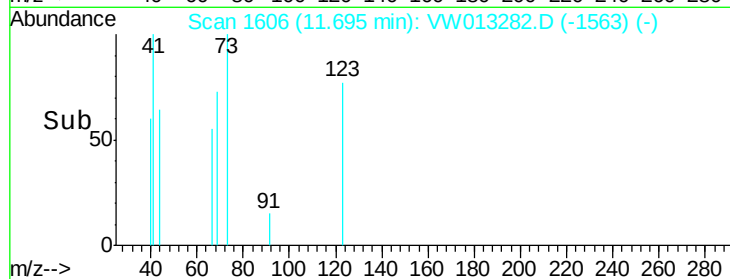
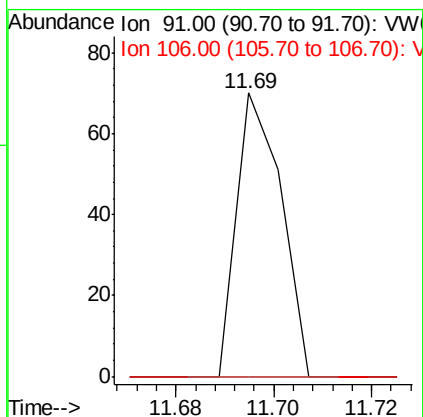
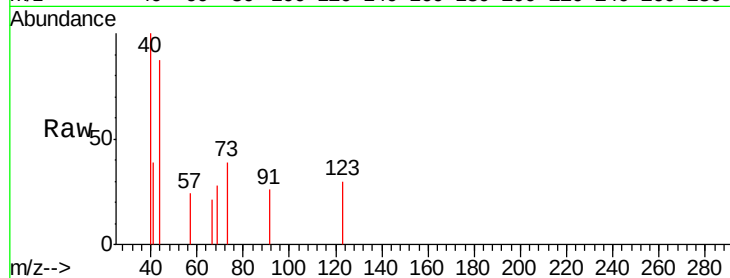




#67
Ethyl Benzene
Concen: 37.513 ug/l
RT: 11.69 min Scan# 1606
Delta R.T. -0.04 min
Lab File: VW013282.D
Acq: 24 Sep 2019 17:48

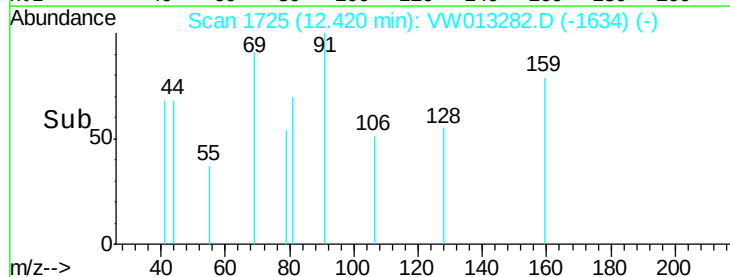
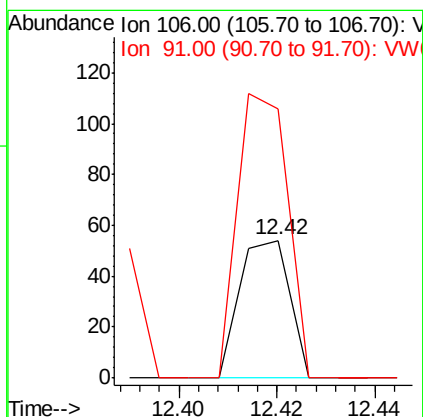
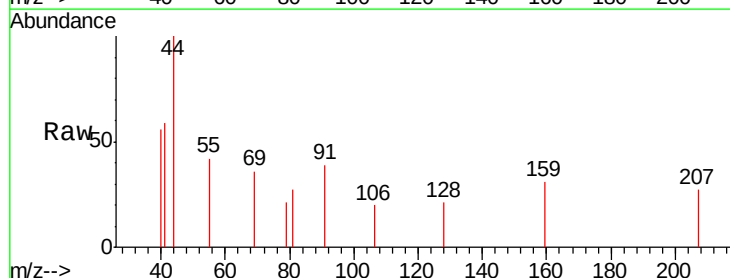
Instrument :
MSVOA_W
ClientSampled :
RBR-200050

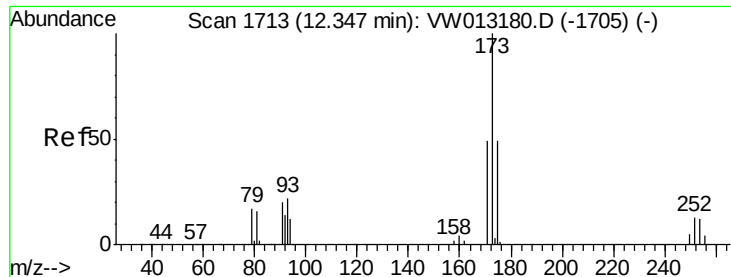
Tgt Ion: 91 Resp: 44
Ion Ratio Lower Upper
91 100
106 0.0 24.9 37.3#



#69
o-Xylene
Concen: 91.447 ug/l
RT: 12.42 min Scan# 1725
Delta R.T. 0.26 min
Lab File: VW013282.D
Acq: 24 Sep 2019 17:48

Tgt Ion: 106 Resp: 38
Ion Ratio Lower Upper
106 100
91 210.5 106.5 319.5





#71

Bromoform

Concen: 350.920 ug/l

RT: 12.12 min Scan# 1675

Delta R.T. -0.23 min

Lab File: VW013282.D

Acq: 24 Sep 2019 17:48

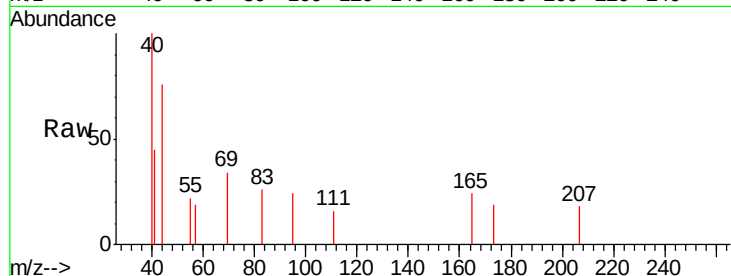
Instrument :

MSVOA_W

ClientSampled :

RBR-200050

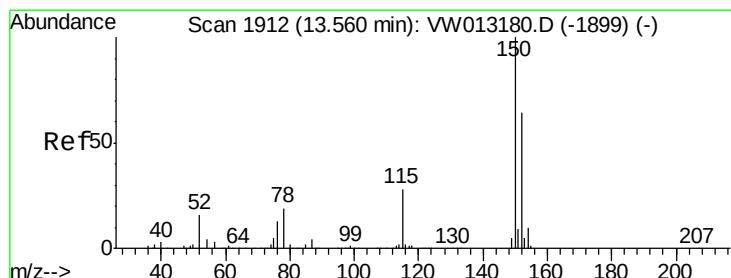
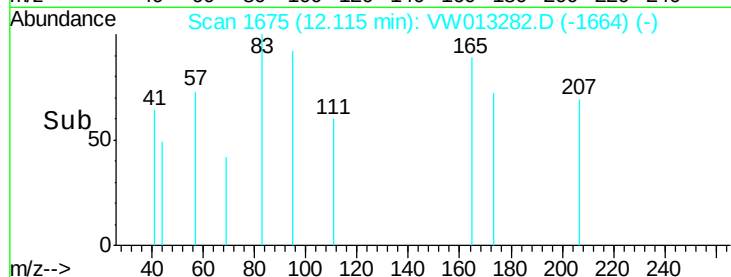
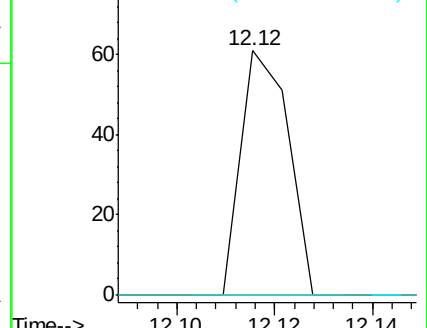
Tgt Ion:	173	Resp:	41
Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.3	73.0#
254	0.0	0.1	0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

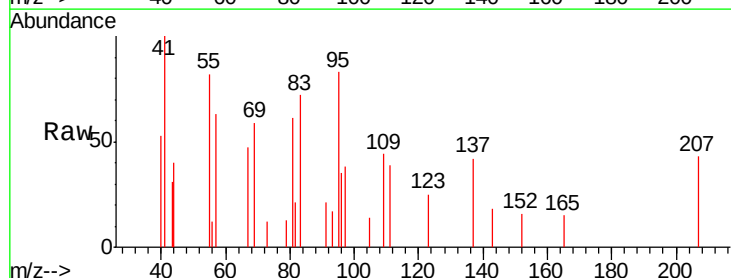
RT: 13.50 min Scan# 1902

Delta R.T. -0.06 min

Lab File: VW013282.D

Acq: 24 Sep 2019 17:48

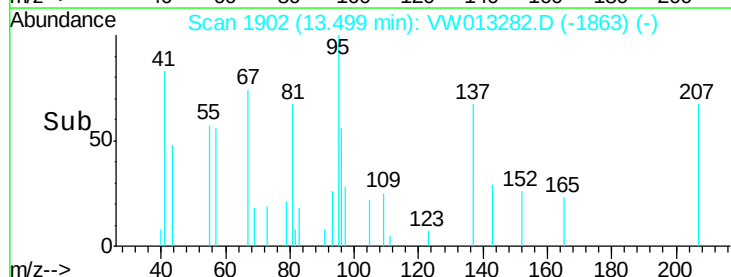
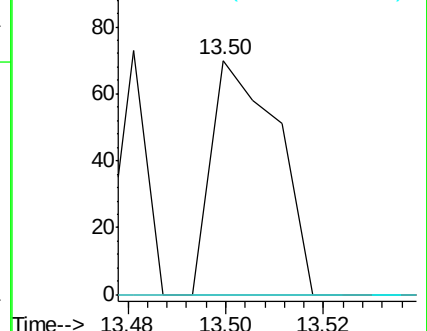
Tgt Ion:	152	Resp:	65
Ion	Ratio	Lower	Upper
152	100		
115	0.0	27.3	81.9#
150	0.0	0.0	349.0

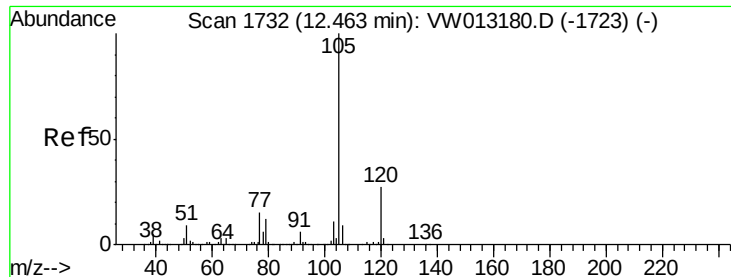


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 17.702 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. 0.05 min

Lab File: VW013282.D

Acq: 24 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampled :

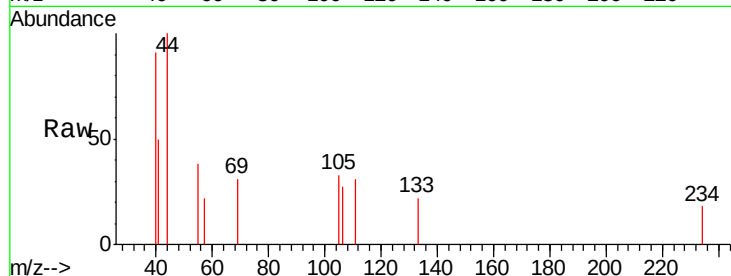
RBR-200050

Tgt Ion: 105 Resp: 85

Ion Ratio Lower Upper

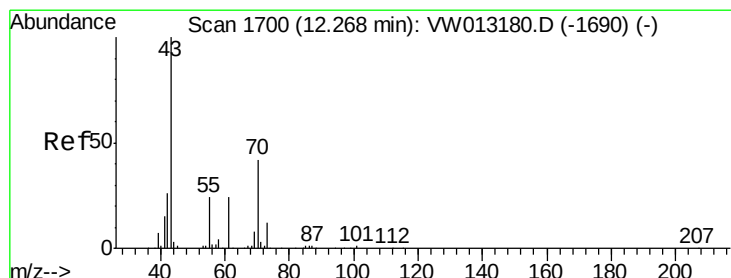
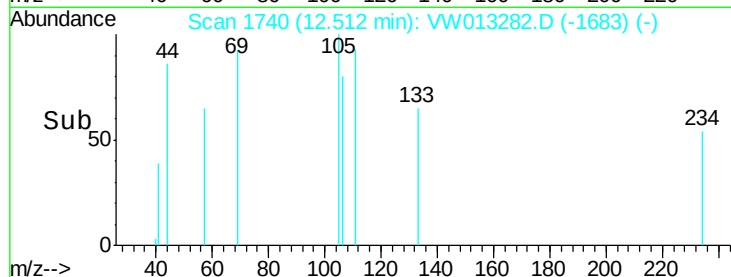
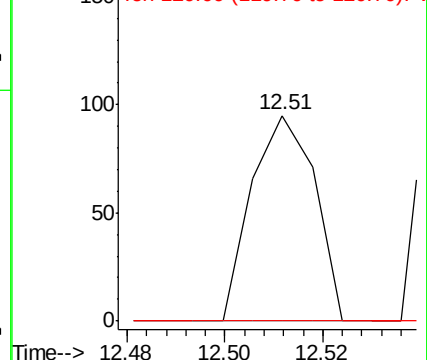
105 100

120 0.0 13.4 40.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 87.285 ug/l

RT: 12.26 min Scan# 1699

Delta R.T. -0.01 min

Lab File: VW013282.D

Acq: 24 Sep 2019 17:48

Tgt Ion: 43 Resp: 93

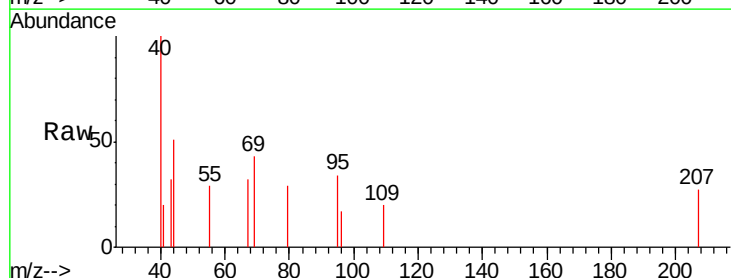
Ion Ratio Lower Upper

43 100

70 0.0 35.1 52.7#

55 0.0 19.9 29.9#

61 0.0 19.5 29.3#

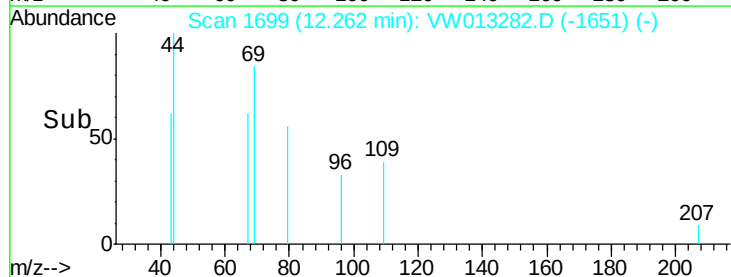
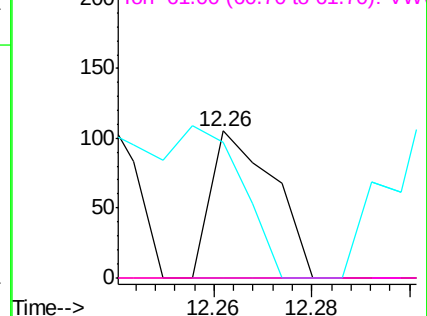


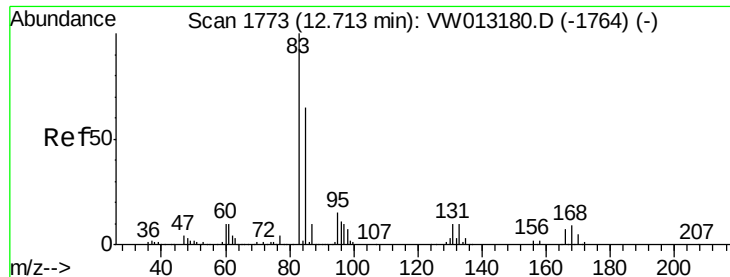
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV





#75

1,1,2,2-Tetrachloroethane

Concen: 156.905 ug/l

RT: 12.74 min Scan# 1777

Delta R.T. 0.02 min

Lab File: VW013282.D

Acq: 24 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampled :

RBR-200050

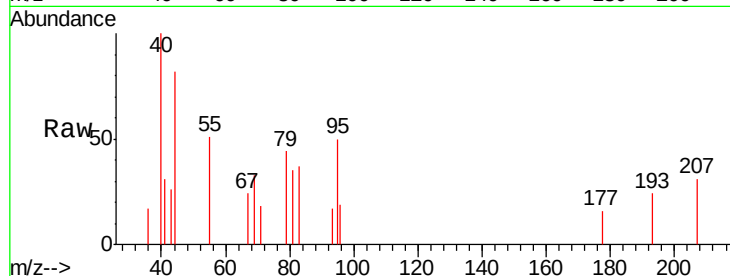
Tgt Ion: 83 Resp: 126

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

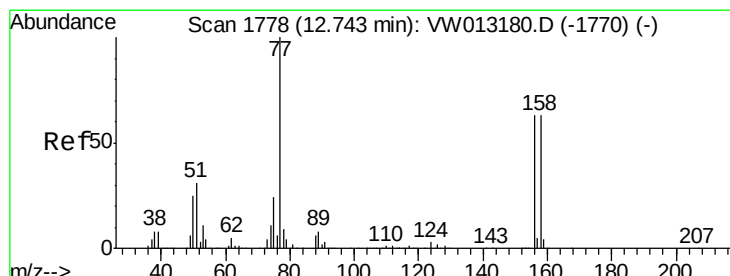
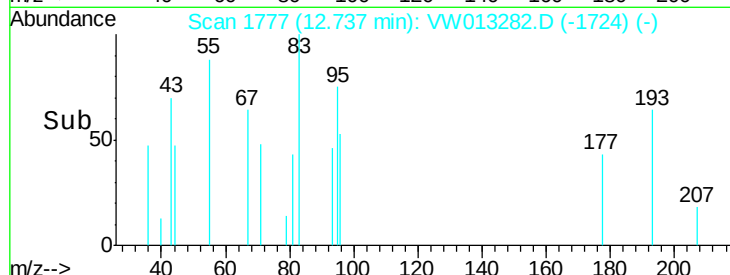
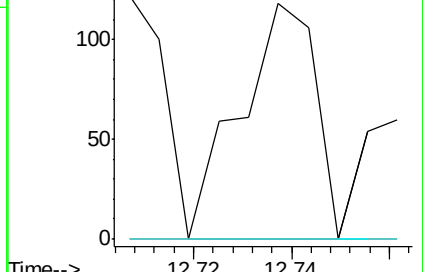
85 0.0 31.9 95.9#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#77

Bromobenzene

Concen: 76.460 ug/l

RT: 12.84 min Scan# 1794

Delta R.T. 0.10 min

Lab File: VW013282.D

Acq: 24 Sep 2019 17:48

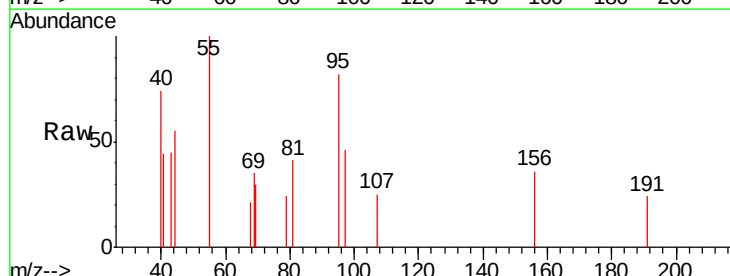
Tgt Ion: 156 Resp: 87

Ion Ratio Lower Upper

156 100

77 0.0 85.7 257.1#

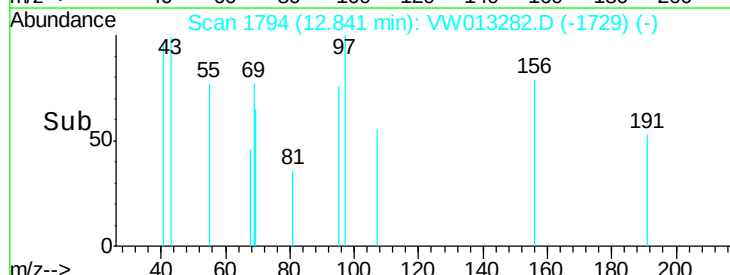
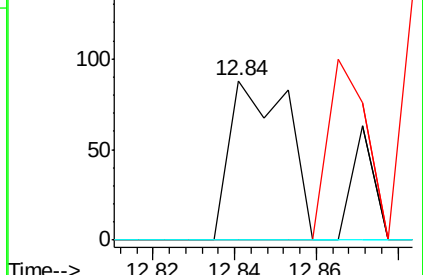
158 0.0 48.1 144.4#

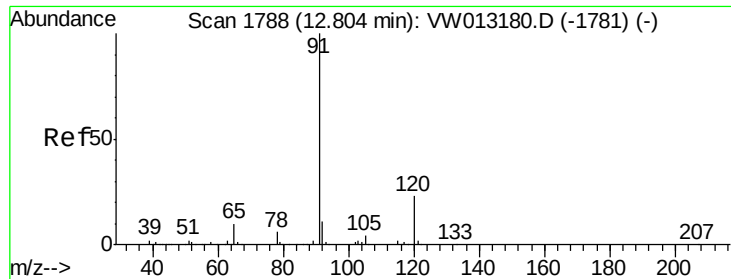


Abundance Ion 155.80 (155.50 to 156.50): VW

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): VW

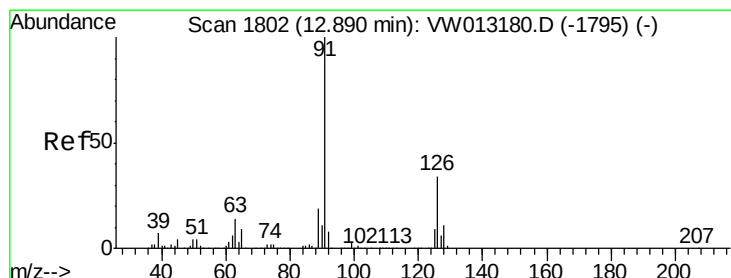
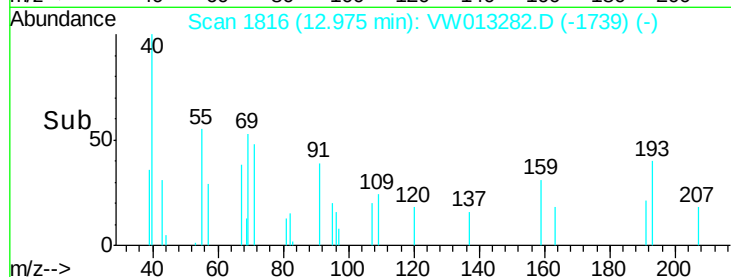
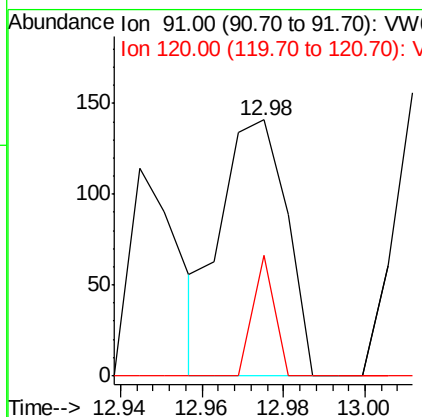
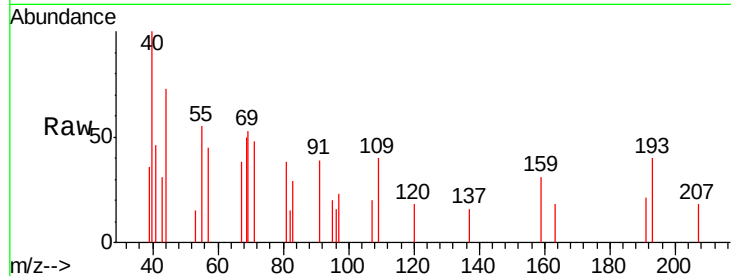




#78
n-propylbenzene
Concen: 27.756 ug/l
RT: 12.98 min Scan# 1816
Delta R.T. 0.17 min
Lab File: VW013282.D
Acq: 24 Sep 2019 17:48

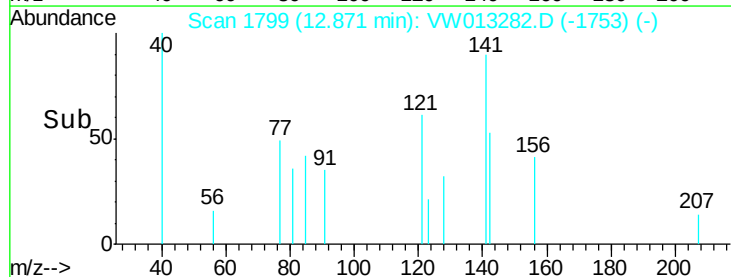
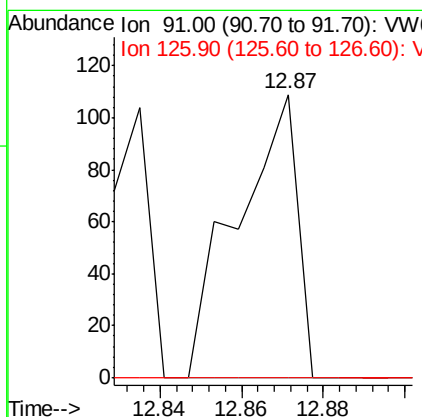
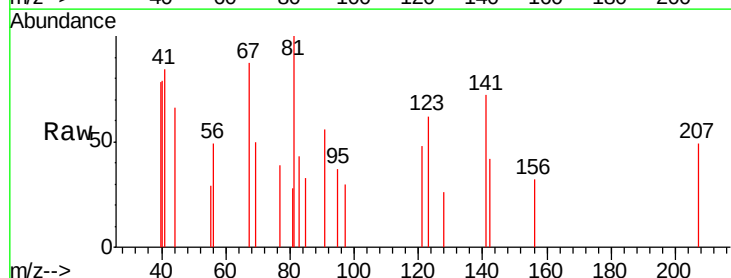
Instrument :
MSVOA_W
ClientSampled :
RBR-200050

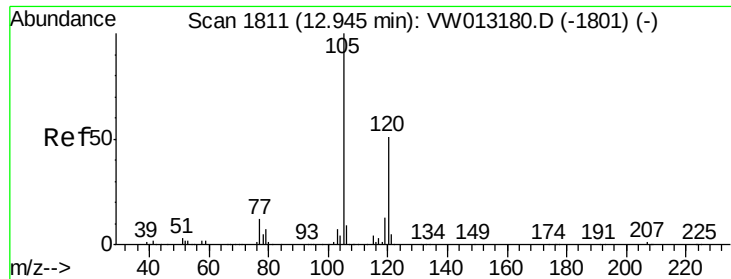
Tgt Ion: 91 Resp: 156
Ion Ratio Lower Upper
91 100
120 15.4 11.7 35.1



#79
2-Chlorotoluene
Concen: 35.569 ug/l
RT: 12.87 min Scan# 1799
Delta R.T. -0.02 min
Lab File: VW013282.D
Acq: 24 Sep 2019 17:48

Tgt Ion: 91 Resp: 112
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.5#

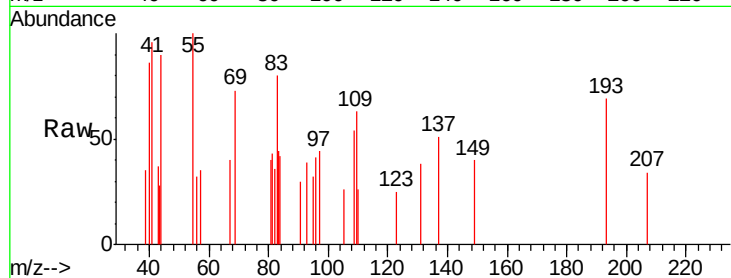




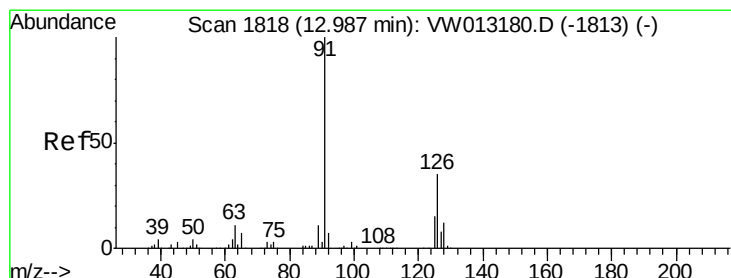
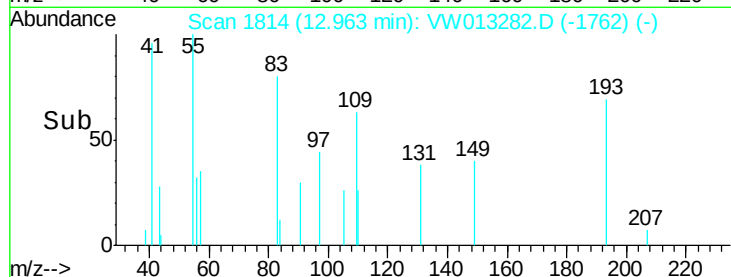
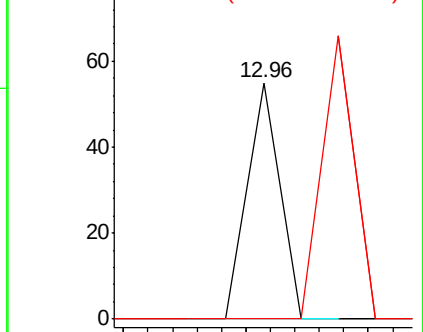
#80
 1,3,5-Trimethylbenzene
 Concen: 4.955 ug/l
 RT: 12.96 min Scan# 1814
 Delta R.T. 0.02 min
 Lab File: VW013282.D
 Acq: 24 Sep 2019 17:48

Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200050

Tgt Ion: 105 Resp: 20
 Ion Ratio Lower Upper
 105 100
 120 120.0 24.9 74.8#

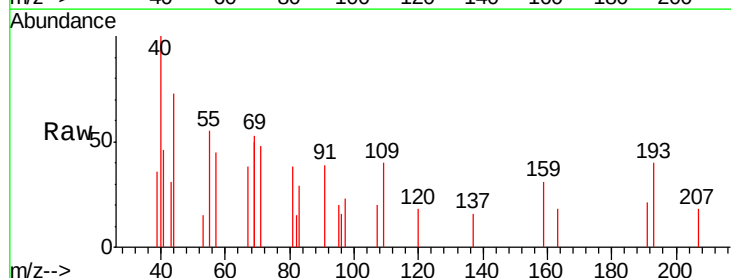


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

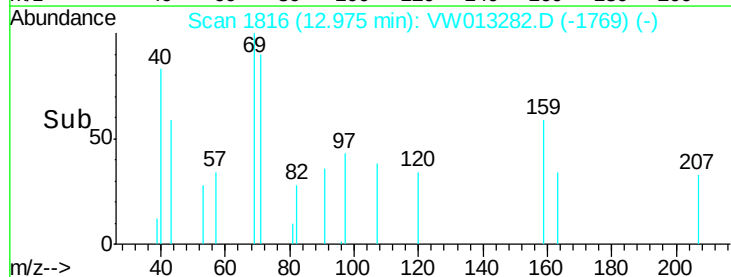
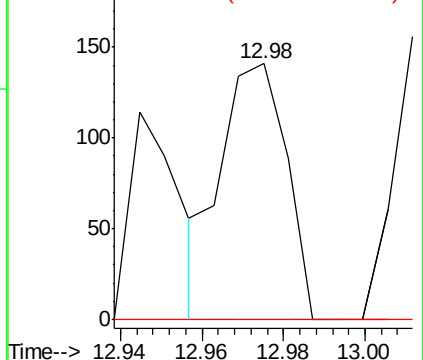


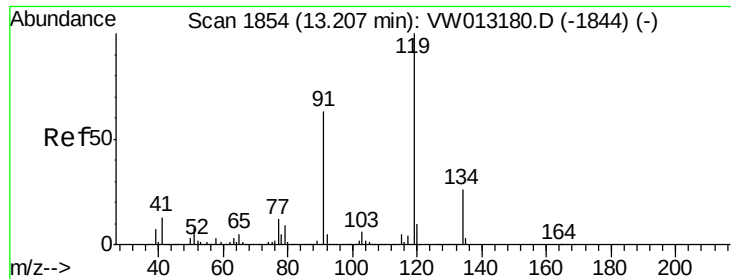
#82
 4-Chlorotoluene
 Concen: 46.981 ug/l
 RT: 12.98 min Scan# 1816
 Delta R.T. -0.01 min
 Lab File: VW013282.D
 Acq: 24 Sep 2019 17:48

Tgt Ion: 91 Resp: 156
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.3 51.7#



Abundance Ion 91.00 (90.70 to 91.70): VW
 Ion 125.90 (125.60 to 126.60): V

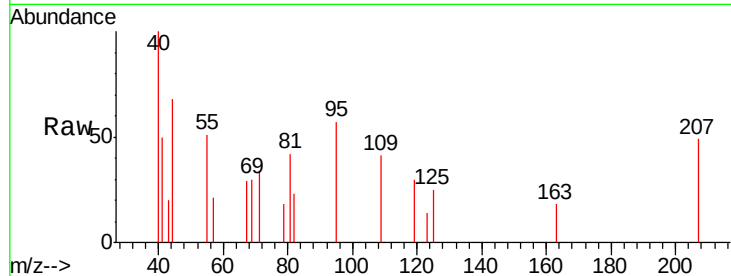




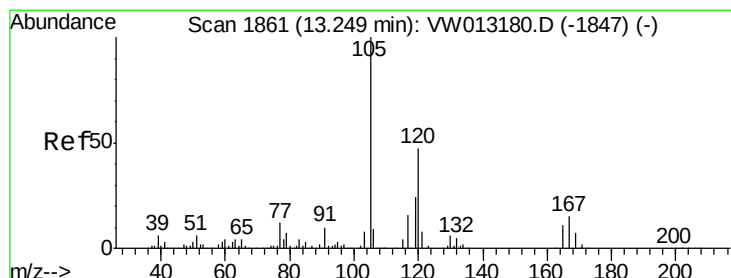
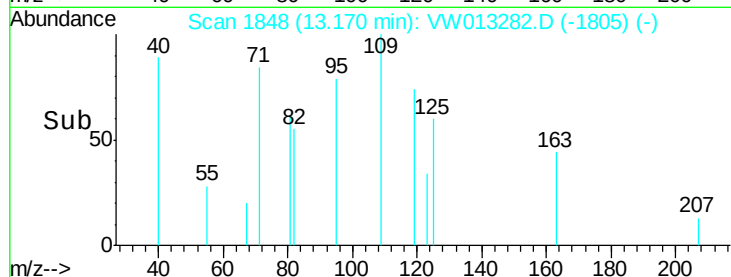
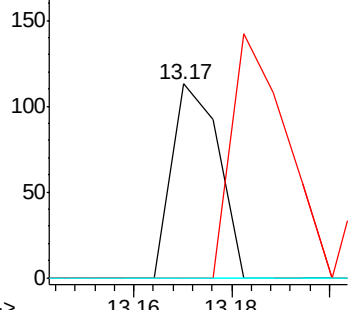
#83
 tert-Butylbenzene
 Concen: 21.171 ug/l
 RT: 13.17 min Scan# 1848
 Delta R.T. -0.04 min
 Lab File: VW013282.D
 Acq: 24 Sep 2019 17:48

Instrument :
 MSVOA_W
 ClientSampled :
 RBR-200050

Tgt Ion:119 Resp: 75
 Ion Ratio Lower Upper
 119 100
 91 149.3 30.7 92.1#
 134 0.0 12.6 37.6#

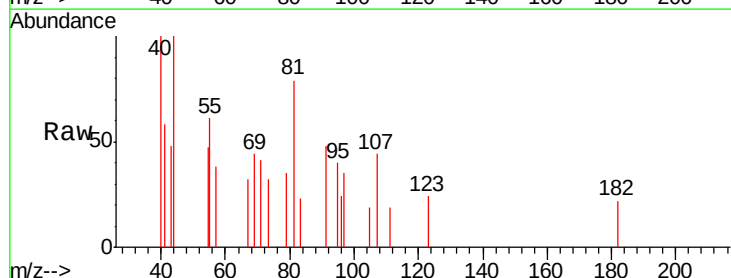


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VW
 Ion 134.00 (133.70 to 134.70): V

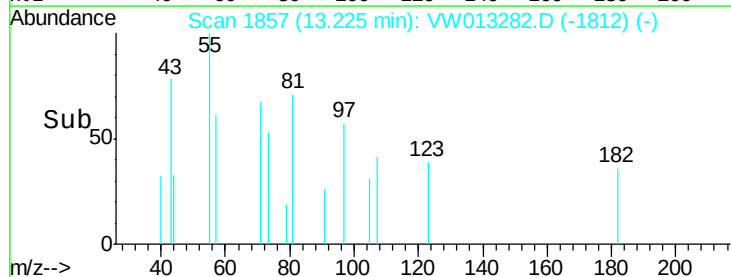
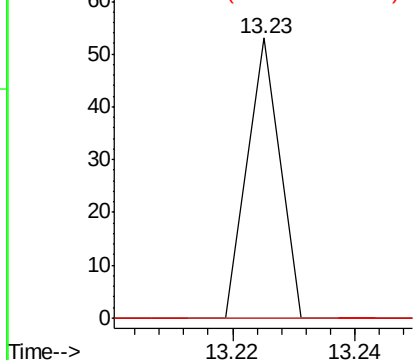


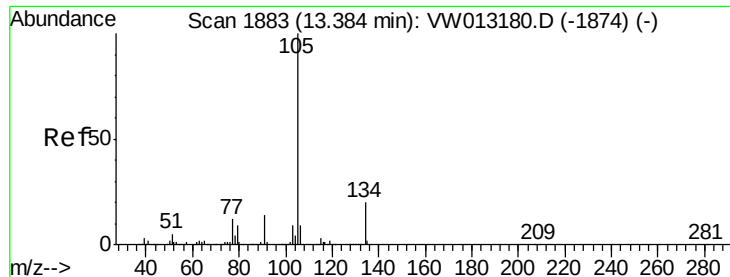
#84
 1,2,4-Trimethylbenzene
 Concen: 4.731 ug/l
 RT: 13.23 min Scan# 1857
 Delta R.T. -0.02 min
 Lab File: VW013282.D
 Acq: 24 Sep 2019 17:48

Tgt Ion:105 Resp: 19
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.4 70.3#



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 9.418 ug/l

RT: 13.40 min Scan# 1886

Delta R.T. 0.02 min

Lab File: VW013282.D

Acq: 24 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampled :

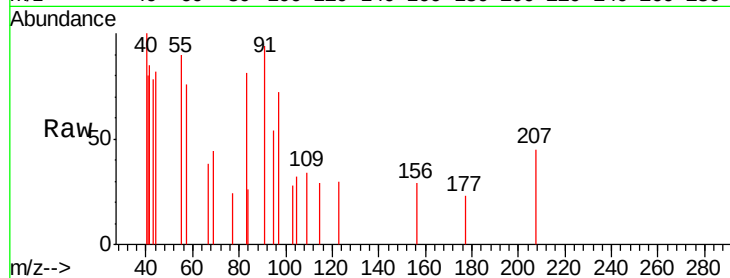
RBR-200050

Tgt Ion:105 Resp: 46

Ion Ratio Lower Upper

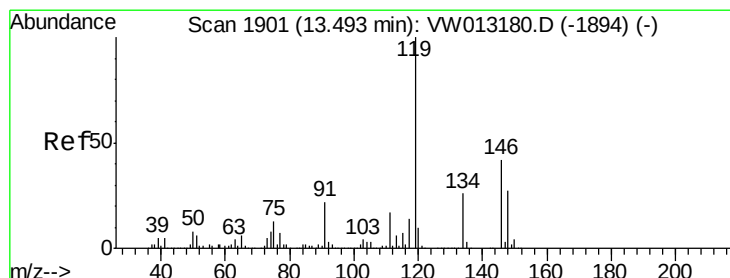
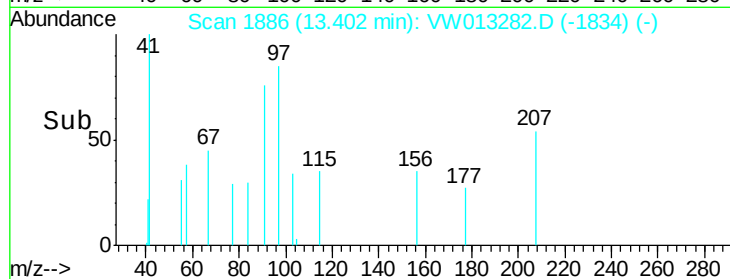
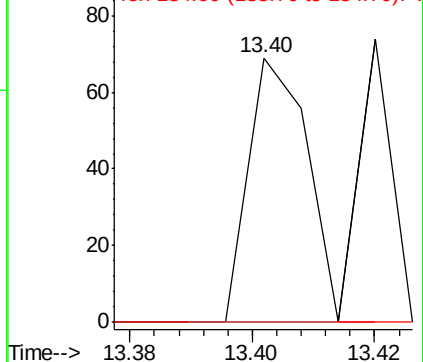
105 100

134 0.0 10.3 30.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 23.399 ug/l

RT: 13.49 min Scan# 1900

Delta R.T. -0.01 min

Lab File: VW013282.D

Acq: 24 Sep 2019 17:48

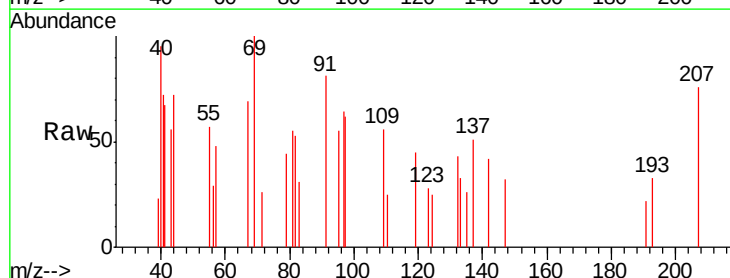
Tgt Ion:119 Resp: 106

Ion Ratio Lower Upper

119 100

134 0.0 13.3 39.8#

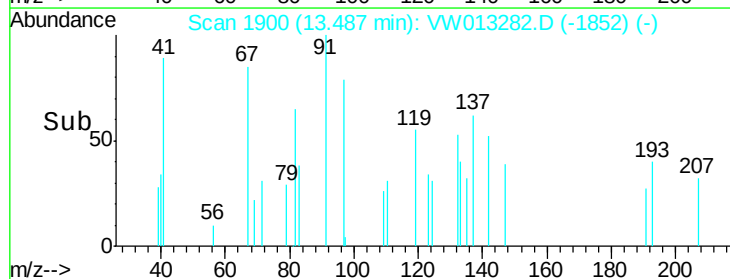
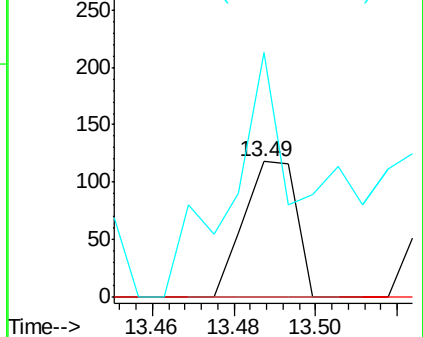
91 209.4 10.8 32.4#

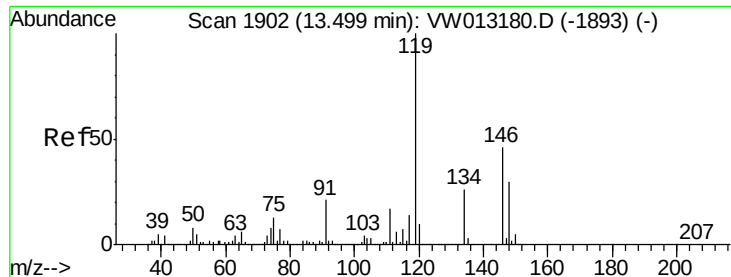


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

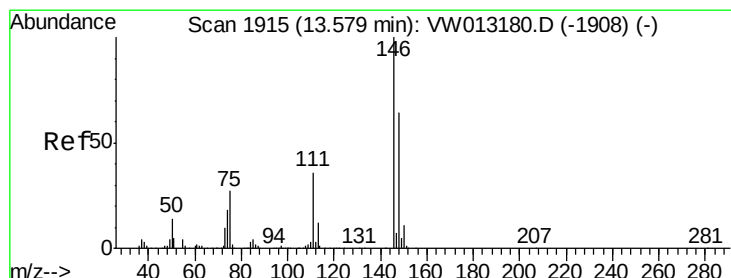
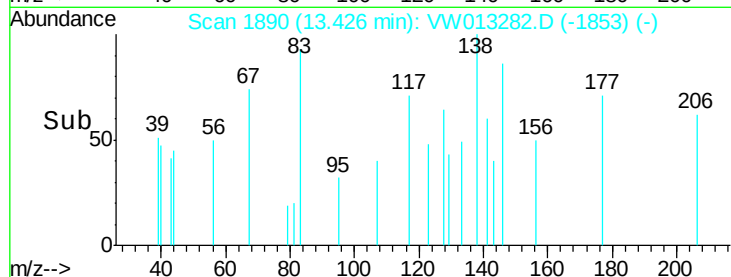
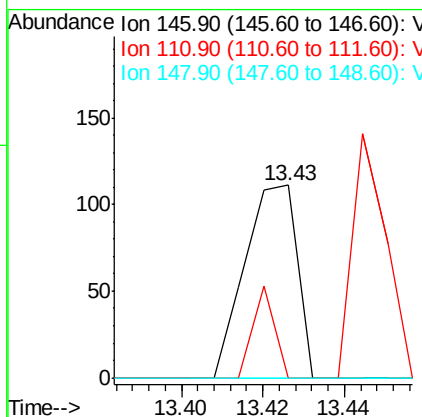
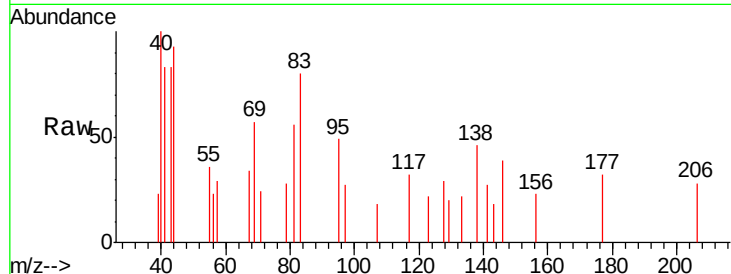




#87
 1,3-Dichlorobenzene
 Concen: 45.208 ug/l
 RT: 13.43 min Scan# 1890
 Delta R.T. -0.07 min
 Lab File: VW013282.D
 Acq: 24 Sep 2019 17:48

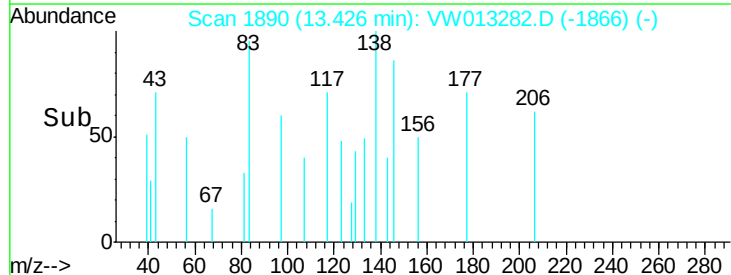
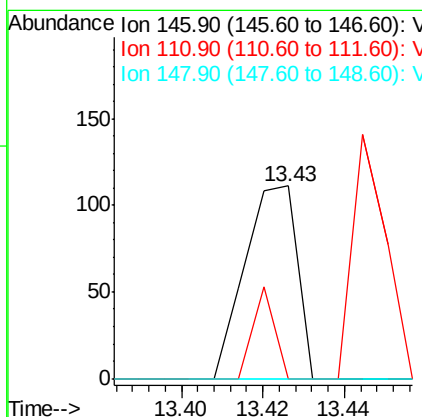
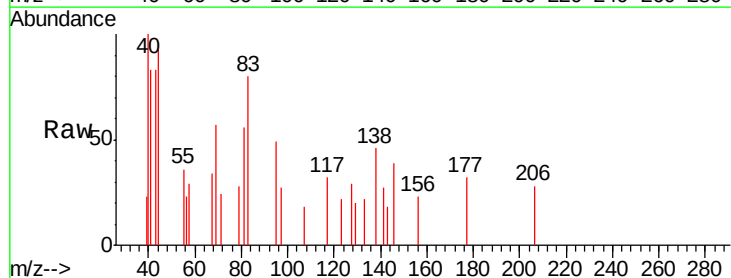
Instrument :
 MSVOA_W
 ClientSampled :
 RBR-200050

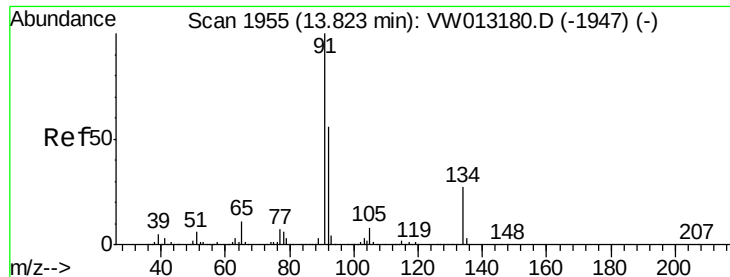
Tgt Ion:146 Resp: 99
 Ion Ratio Lower Upper
 146 100
 111 19.2 18.9 56.9
 148 0.0 31.9 95.5#



#88
 1,4-Dichlorobenzene
 Concen: 46.096 ug/l
 RT: 13.43 min Scan# 1890
 Delta R.T. -0.15 min
 Lab File: VW013282.D
 Acq: 24 Sep 2019 17:48

Tgt Ion:146 Resp: 99
 Ion Ratio Lower Upper
 146 100
 111 80.8 18.4 55.0#
 148 0.0 32.1 96.3#





#89

n-Butylbenzene

Concen: 21.758 ug/l

RT: 13.83 min Scan# 1957

Delta R.T. 0.01 min

Lab File: VW013282.D

Acq: 24 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampled :

RBR-200050

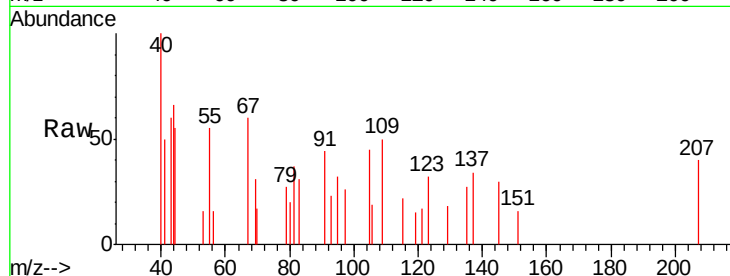
Tgt Ion: 91 Resp: 90

Ion Ratio Lower Upper

91 100

92 0.0 27.6 82.8#

134 0.0 13.7 41.1#



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

13.83

13.84

13.85

13.86

13.87

13.88

13.89

13.90

13.91

13.92

13.93

13.94

13.95

13.96

13.97

13.98

13.99

14.00

14.01

14.02

14.03

14.04

14.05

14.06

14.07

14.08

14.09

14.10

14.11

14.12

14.13

14.14

14.15

14.16

14.17

14.18

14.19

14.20

14.21

14.22

14.23

14.24

14.25

14.26

14.27

14.28

14.29

14.30

14.31

14.32

14.33

14.34

14.35

14.36

14.37

14.38

14.39

14.40

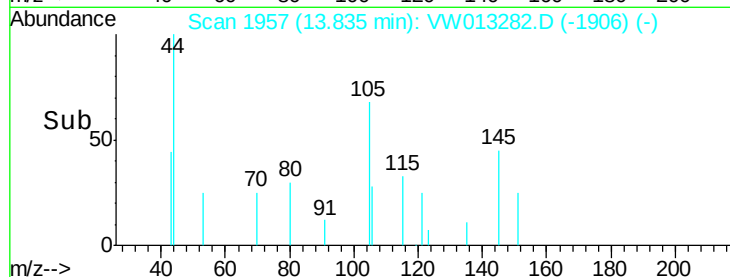
14.41

14.42

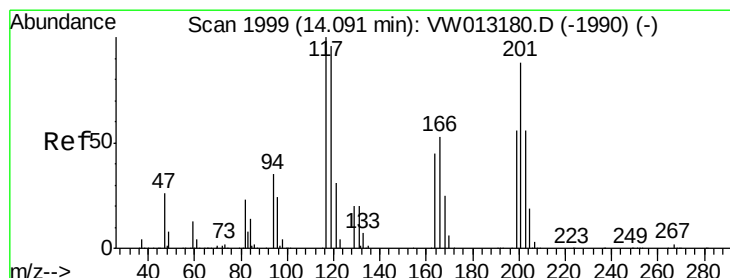
14.43

14.44

14.45



Time-->



#90

Hexachloroethane

Concen: 135.344 ug/l

RT: 14.16 min Scan# 2010

Delta R.T. 0.07 min

Lab File: VW013282.D

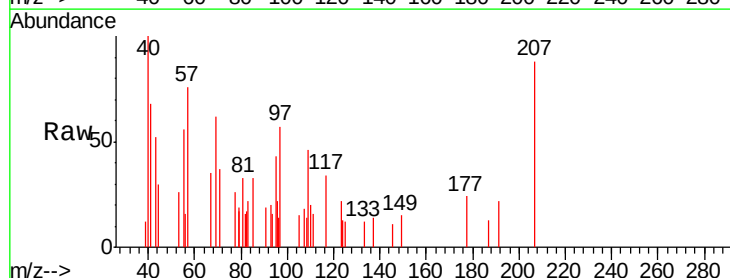
Acq: 24 Sep 2019 17:48

Tgt Ion: 117 Resp: 103

Ion Ratio Lower Upper

117 100

201 0.0 44.5 133.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

14.16

14.17

14.18

14.19

14.20

14.21

14.22

14.23

14.24

14.25

14.26

14.27

14.28

14.29

14.30

14.31

14.32

14.33

14.34

14.35

14.36

14.37

14.38

14.39

14.40

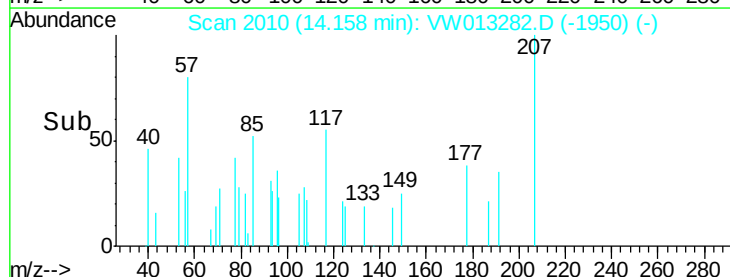
14.41

14.42

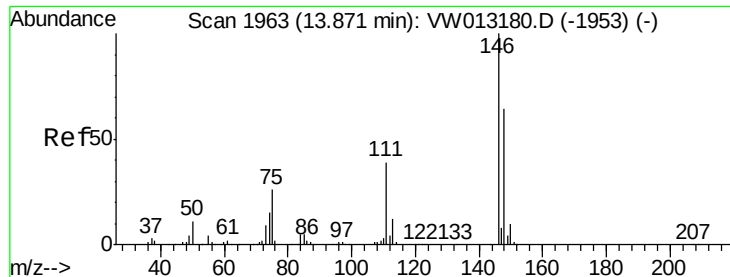
14.43

14.44

14.45



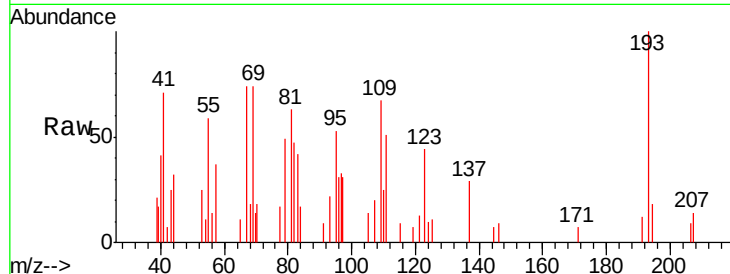
Time-->



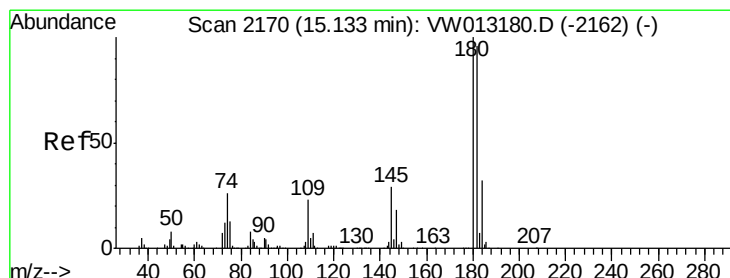
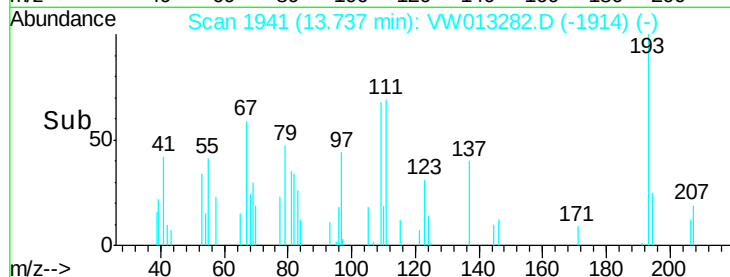
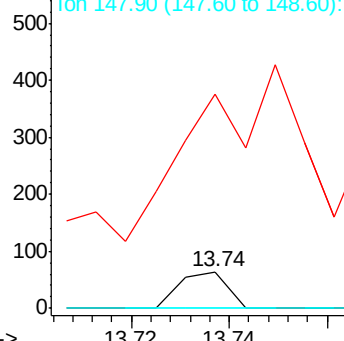
#91
 1,2-Dichlorobenzene
 Concen: 23.225 ug/l
 RT: 13.74 min Scan# 1941
 Delta R.T. -0.13 min
 Lab File: VW013282.D
 Acq: 24 Sep 2019 17:48

Instrument :
 MSVOA_W
 ClientSampled :
 RBR-200050

Tgt Ion:146 Resp: 44
 Ion Ratio Lower Upper
 146 100
 111 1695.5 20.1 60.3#
 148 0.0 32.0 96.0#

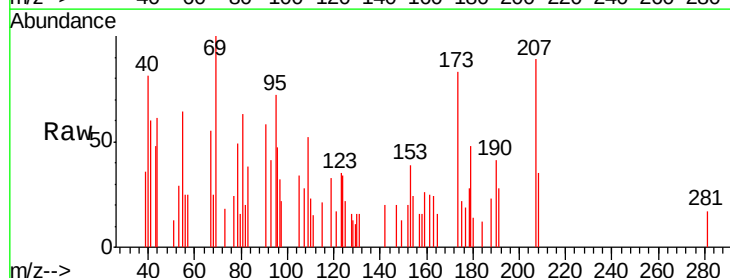


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

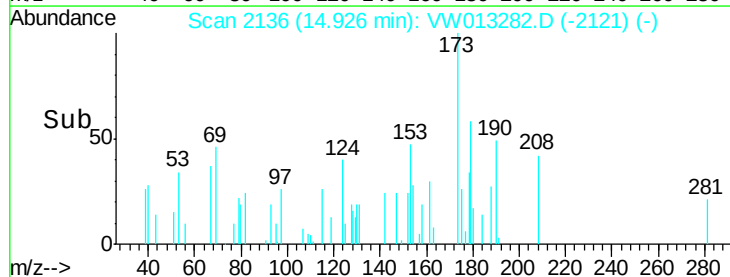
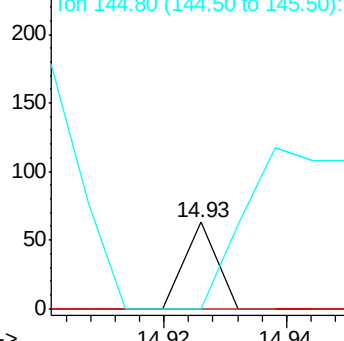


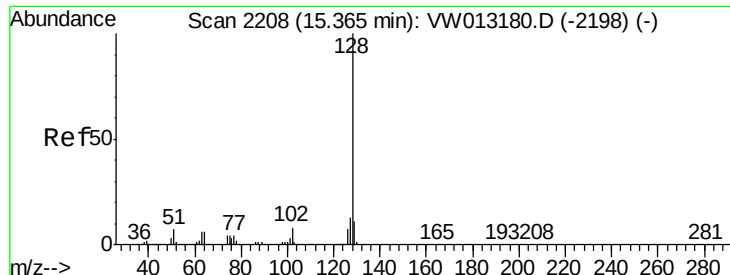
#93
 1,2,4-Trichlorobenzene
 Concen: 16.942 ug/l
 RT: 14.93 min Scan# 2136
 Delta R.T. -0.21 min
 Lab File: VW013282.D
 Acq: 24 Sep 2019 17:48

Tgt Ion:180 Resp: 23
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.3 142.0#
 145 626.1 14.2 42.8#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 93.230 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013282.D

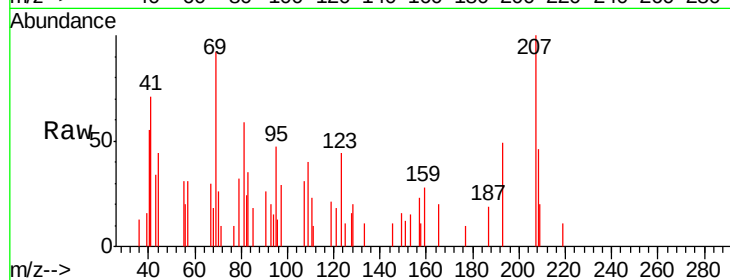
Acq: 24 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampleId :

RBR-200050



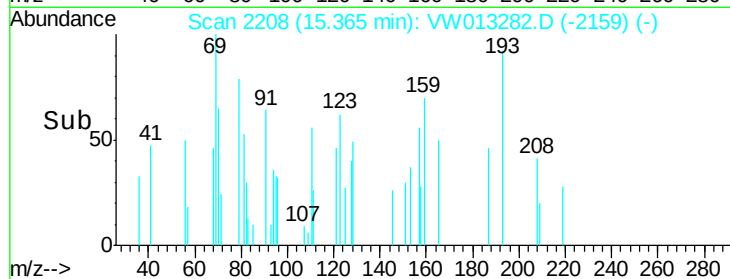
Tgt Ion:128 Resp: 207

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.7 13.1#



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

