

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091619\
 Data File : VW013064.D
 Acq On : 17 Sep 2019 02:46
 Operator : SY/VA
 Sample : K4897-03
 Misc : 4.49G/5ML/MSVOA_W/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200028

Quant Time: Sep 17 07:28:10 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	336554	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	505961	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	445621	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	184800	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	172188	55.40	ug/l	0.00
Spiked Amount			Recovery	=	110.80%	
35) Dibromofluoromethane	7.88	113	144334	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	
50) Toluene-d8	10.32	98	616507	57.39	ug/l	0.00
Spiked Amount			Recovery	=	114.78%	
62) 4-Bromofluorobenzene	12.62	95	202678	52.47	ug/l	0.00
Spiked Amount			Recovery	=	104.94%	

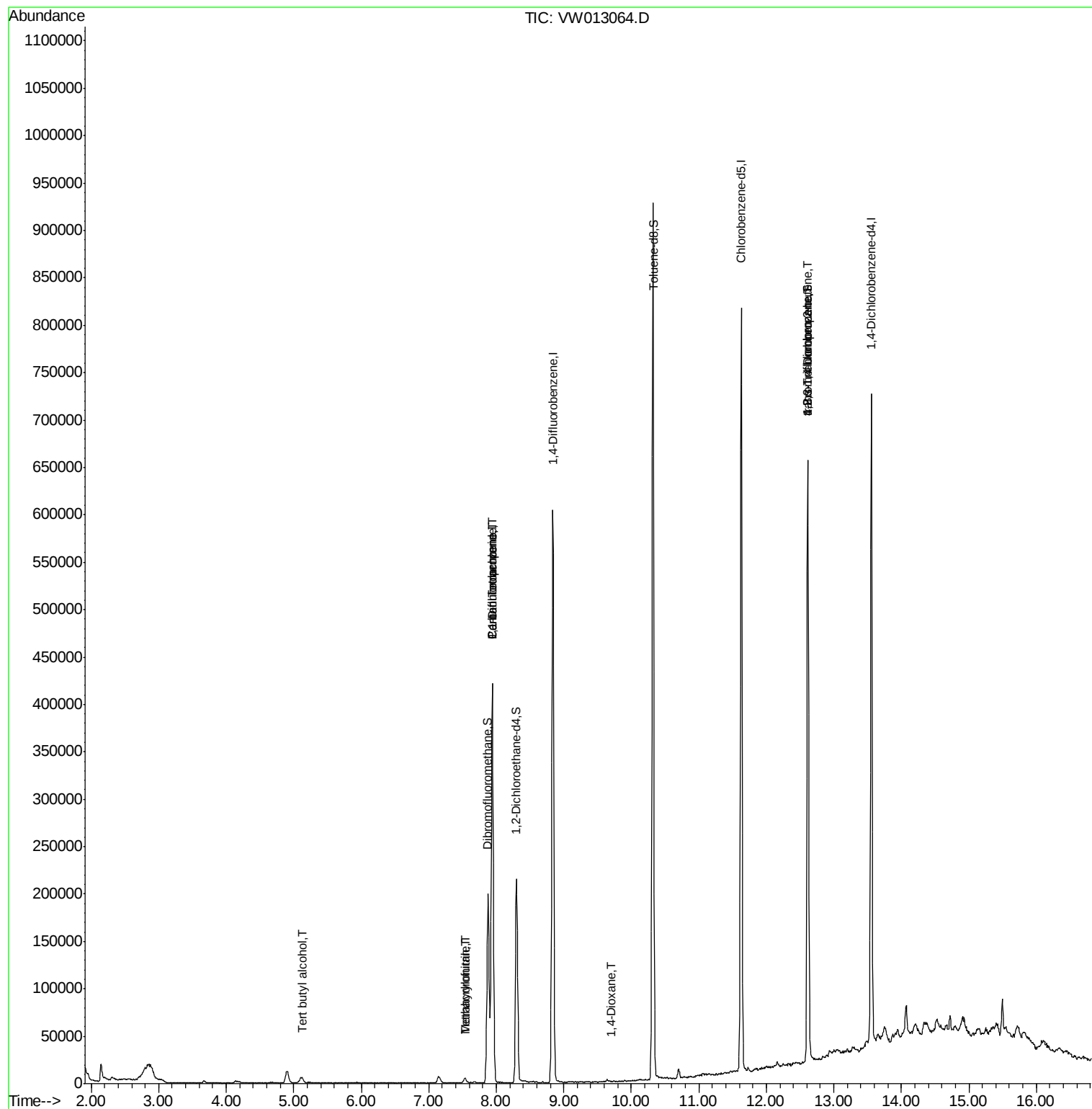
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	19	Below Cal	#	44
3) Chloromethane	2.20	50	430	Below Cal	#	56
11) Tert butyl alcohol	5.12	59	6384	9.850	ug/l #	72
13) Acrolein	3.87	56	82	Below Cal	#	15
16) Acetone	4.15	43	4682	Below Cal		90
20) Methylene Chloride	4.91	84	9843	Below Cal	#	89
26) 2,2-Dichloropropane	7.15	77	577	Below Cal	#	55
29) Tetrahydrofuran	7.53	42	4530	8.044	ug/l	96
31) Cyclohexane	7.93	56	6423	Below Cal	#	2
36) 1,1-Dichloropropene	7.94	75	23871	5.904	ug/l #	52
38) Carbon Tetrachloride	7.94	117	30360	7.328	ug/l #	15
41) Methacrylonitrile	7.54	41	2756	1.950	ug/l #	44
49) 1,4-Dioxane	9.70	88	30	1.246	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	101113	62.465	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	101113	141.702	ug/l #	7

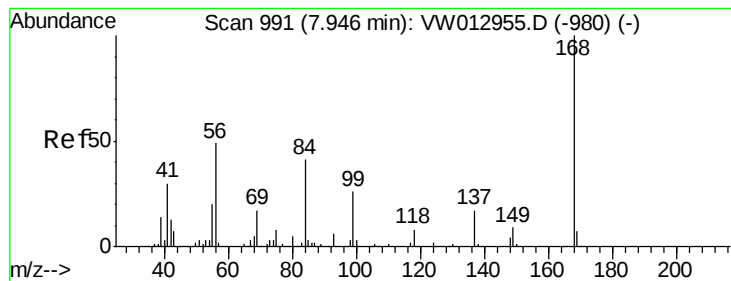
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW013064.D

Acq: 17 Sep 2019 02:46

Instrument :

MSVOA_W

ClientSampleId :

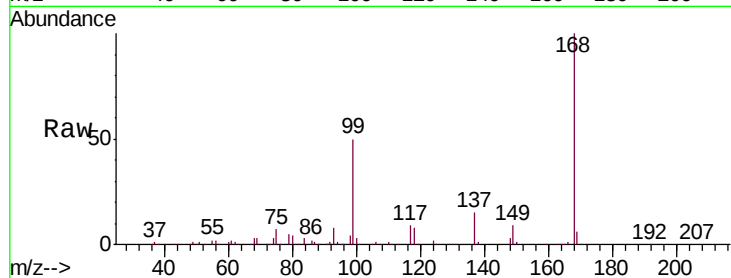
RBR-200028

Tgt Ion:168 Resp: 336554

Ion Ratio Lower Upper

168 100

99 50.5 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

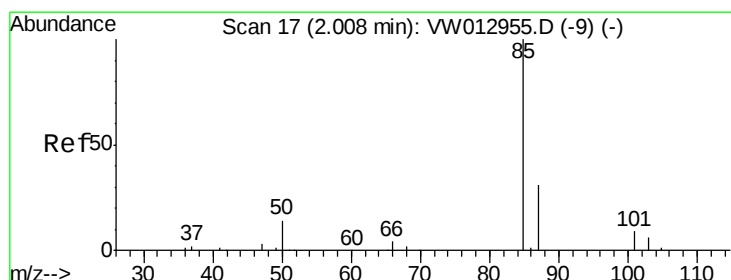
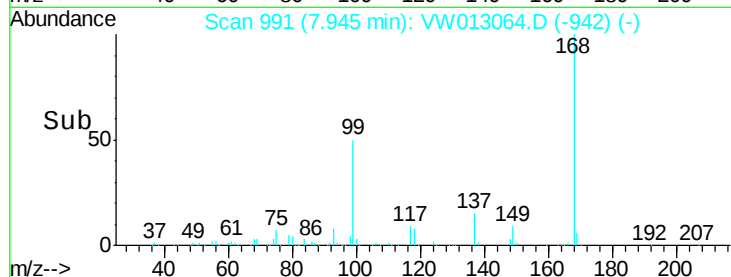
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW013064.D

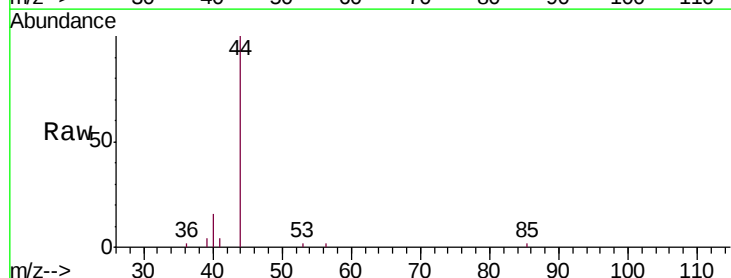
Acq: 17 Sep 2019 02:46

Tgt Ion: 85 Resp: 19

Ion Ratio Lower Upper

85 100

87 0.0 15.4 46.4#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

60

50

40

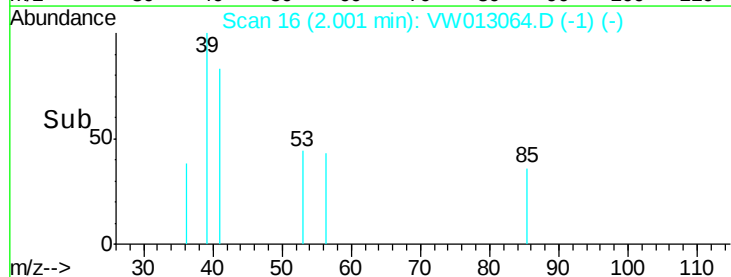
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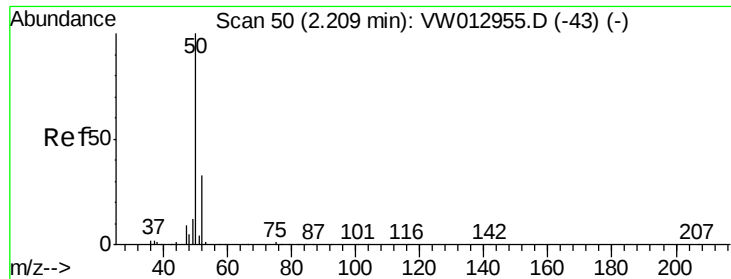
20

10

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VW013064.D

Acq: 17 Sep 2019 02:46

Instrument :

MSVOA_W

ClientSampled :

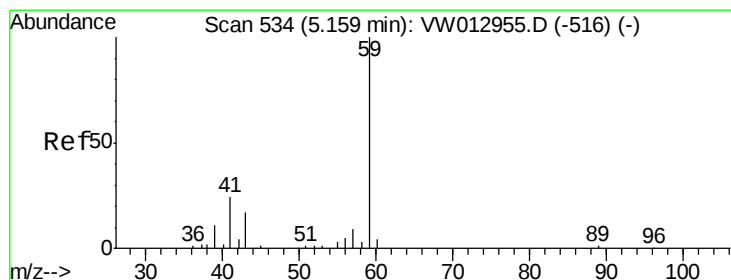
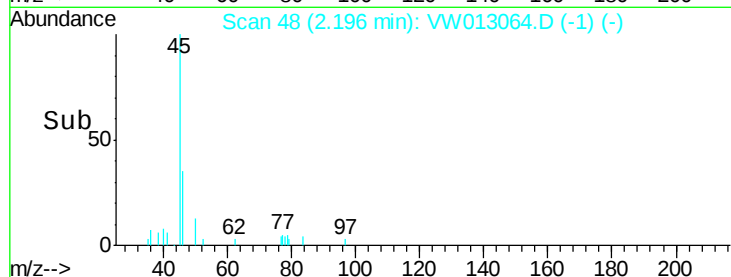
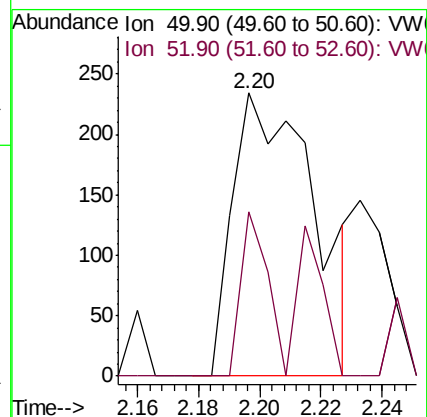
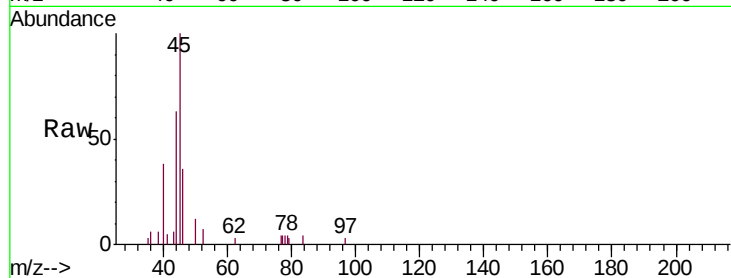
RBR-200028

Tgt Ion: 50 Resp: 430

Ion Ratio Lower Upper

50 100

52 58.1 26.6 39.8#



#11

Tert butyl alcohol

Concen: 9.850 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.04 min

Lab File: VW013064.D

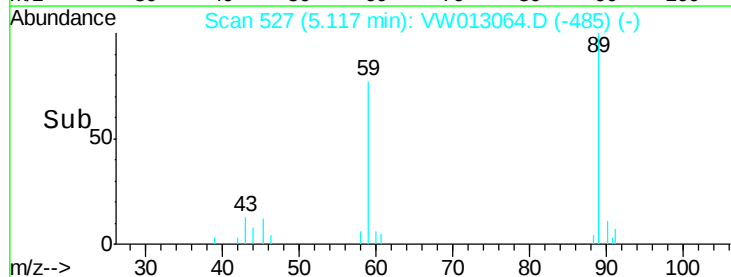
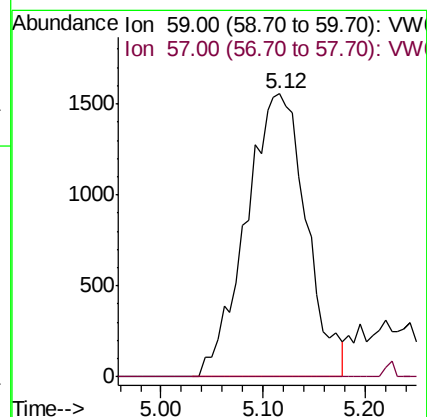
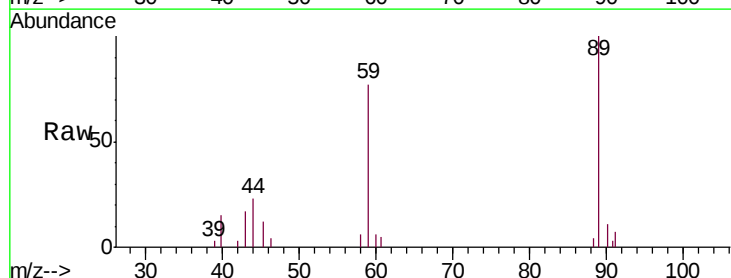
Acq: 17 Sep 2019 02:46

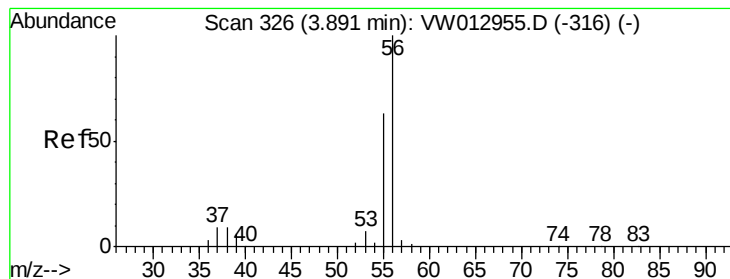
Tgt Ion: 59 Resp: 6384

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#13

Acrolein

Concen: Below Cal

RT: 3.87 min Scan# 323

Delta R.T. -0.02 min

Lab File: VW013064.D

Acq: 17 Sep 2019 02:46

Instrument :

MSVOA_W

ClientSampleId :

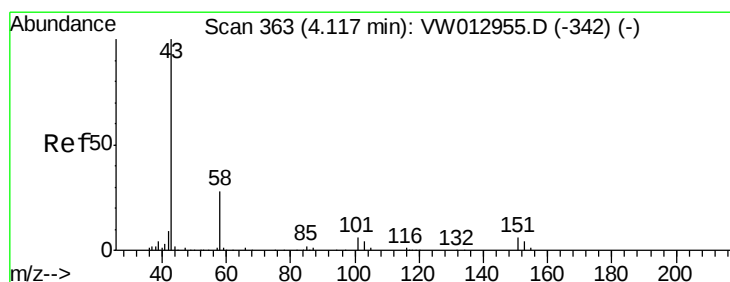
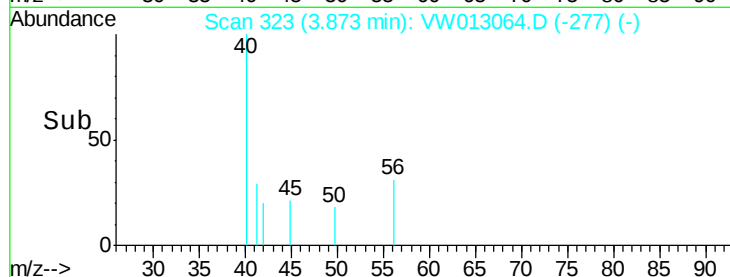
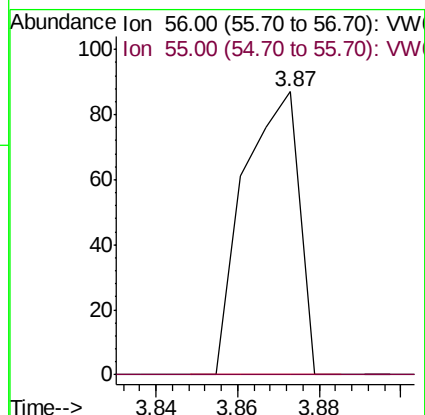
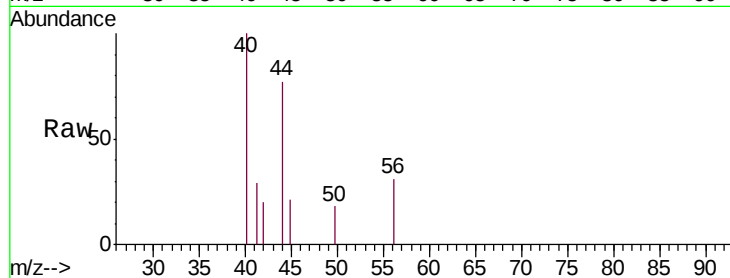
RBR-200028

Tgt Ion: 56 Resp: 82

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



#16

Acetone

Concen: Below Cal

RT: 4.15 min Scan# 368

Delta R.T. 0.03 min

Lab File: VW013064.D

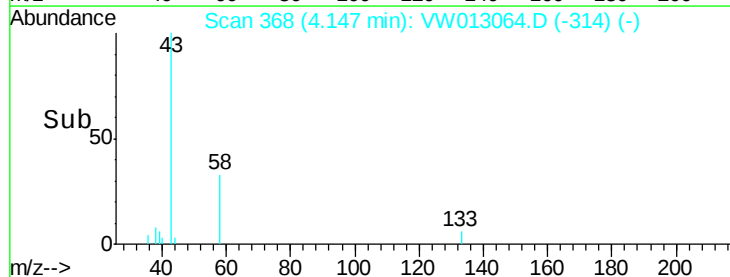
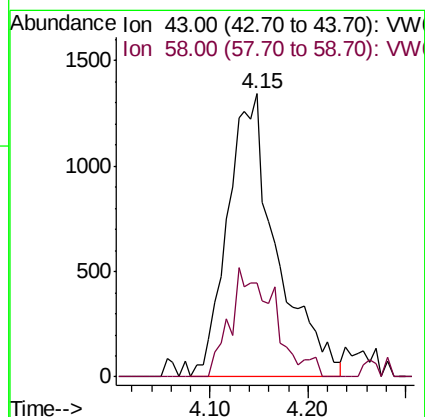
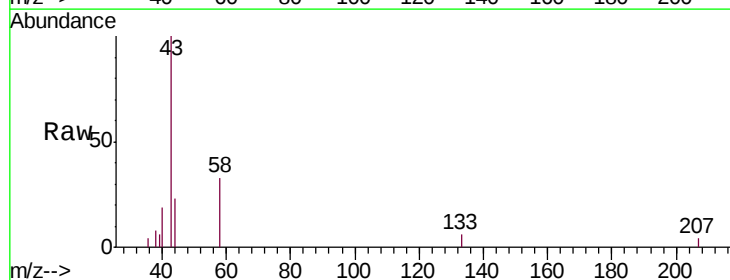
Acq: 17 Sep 2019 02:46

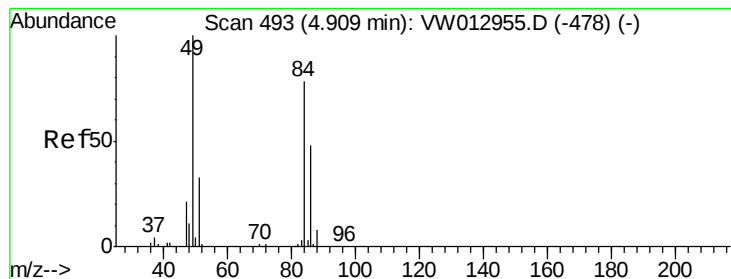
Tgt Ion: 43 Resp: 4682

Ion Ratio Lower Upper

43 100

58 33.1 22.3 33.5





#20

Methylene Chloride

Concen: Below Cal

RT: 4.91 min Scan# 493

Delta R.T. 0.00 min

Lab File: VW013064.D

Acq: 17 Sep 2019 02:46

Instrument :

MSVOA_W

ClientSampled :

RBR-200028

Tgt Ion: 84 Resp: 9843

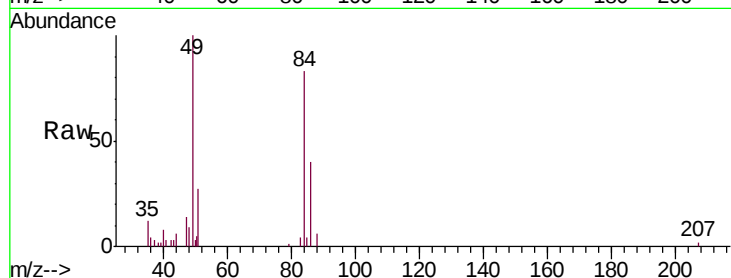
Ion Ratio Lower Upper

84 100

49 120.6 102.0 153.0

51 32.6 34.0 51.0#

86 48.0 48.5 72.7#

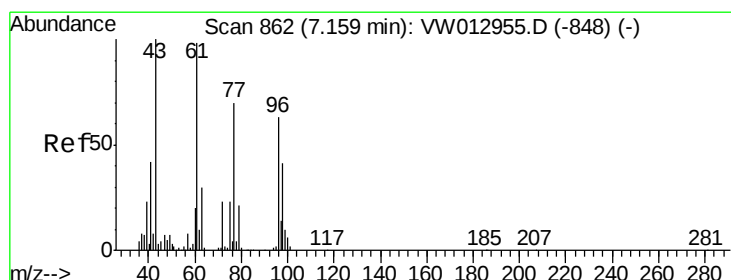
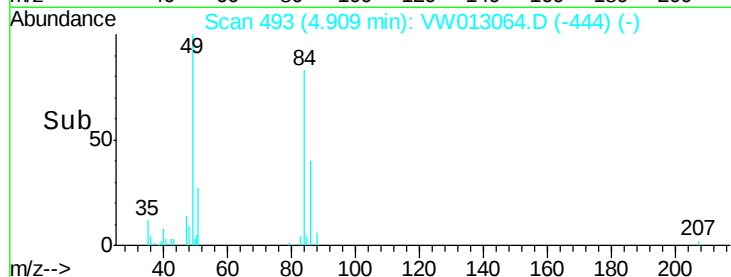
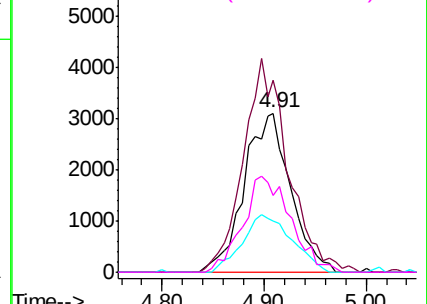


Abundance Ion 83.90 (83.60 to 84.60): VW

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



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.15 min Scan# 860

Delta R.T. -0.01 min

Lab File: VW013064.D

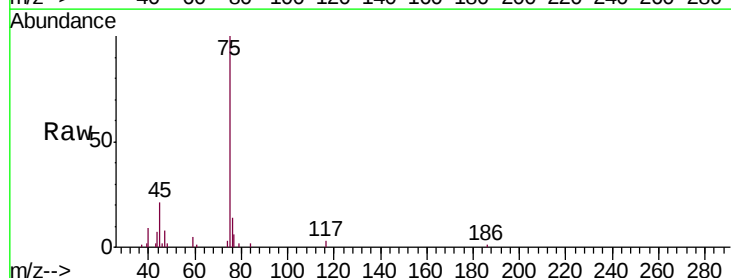
Acq: 17 Sep 2019 02:46

Tgt Ion: 77 Resp: 577

Ion Ratio Lower Upper

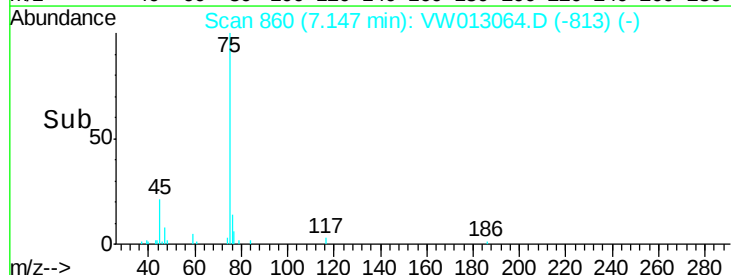
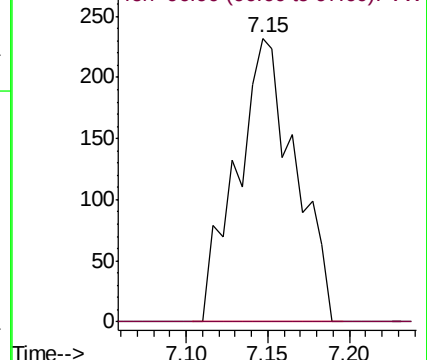
77 100

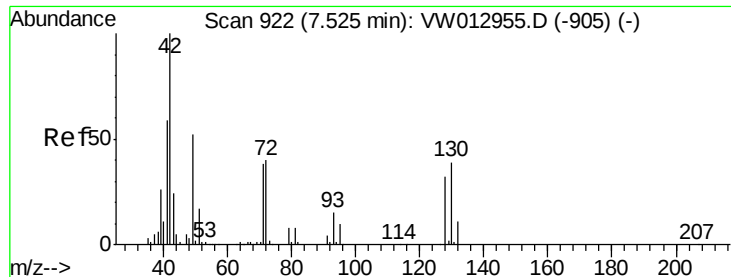
97 0.0 10.7 32.1#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

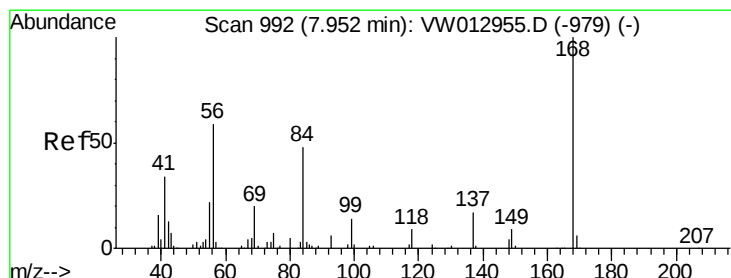
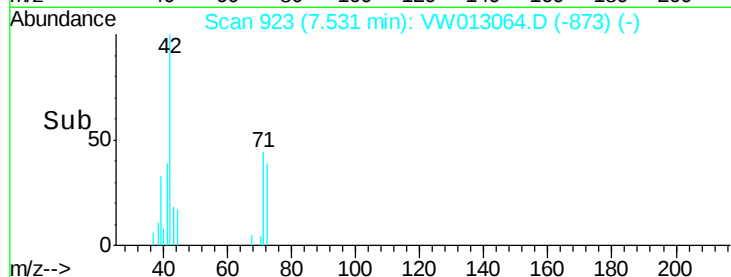
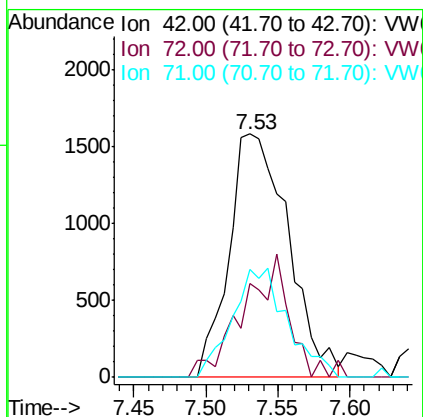
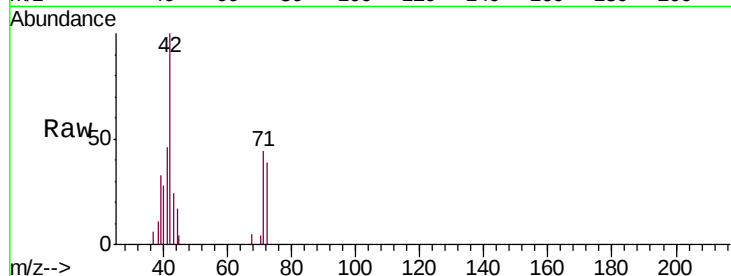




#29
Tetrahydrofuran
Concen: 8.044 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW013064.D
Acq: 17 Sep 2019 02:46

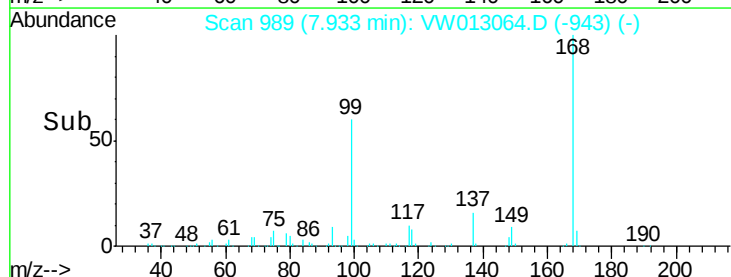
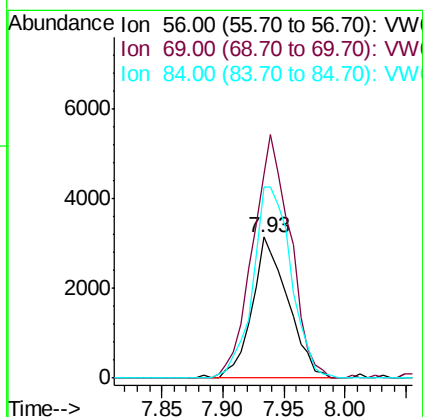
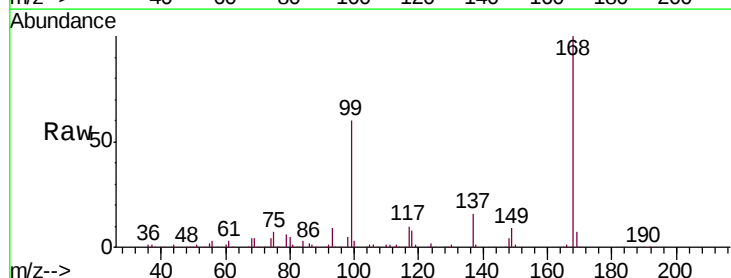
Instrument :
MSVOA_W
ClientSampled :
RBR-200028

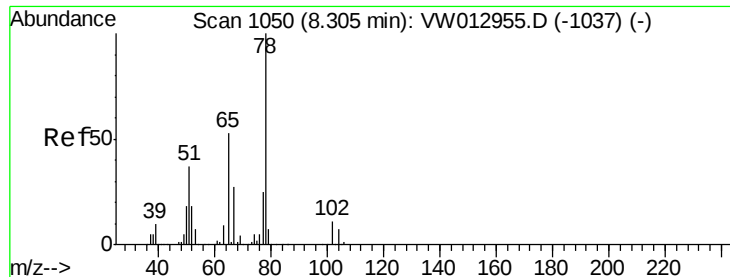
Tgt Ion: 42 Resp: 4530
Ion Ratio Lower Upper
42 100
72 39.6 31.4 47.0
71 41.3 29.8 44.8



#31
Cyclohexane
Concen: Below Cal
RT: 7.93 min Scan# 989
Delta R.T. -0.02 min
Lab File: VW013064.D
Acq: 17 Sep 2019 02:46

Tgt Ion: 56 Resp: 6423
Ion Ratio Lower Upper
56 100
69 144.8 27.0 40.6#
84 135.5 66.2 99.2#

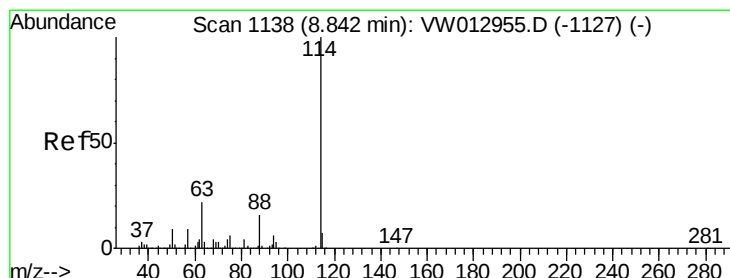
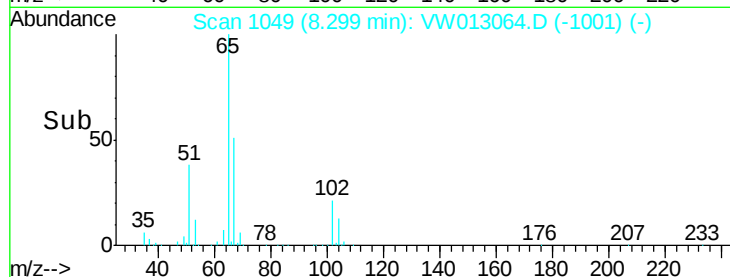
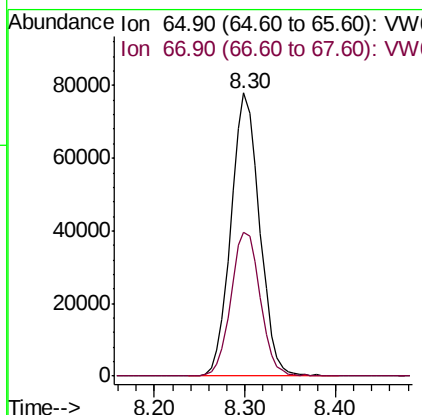
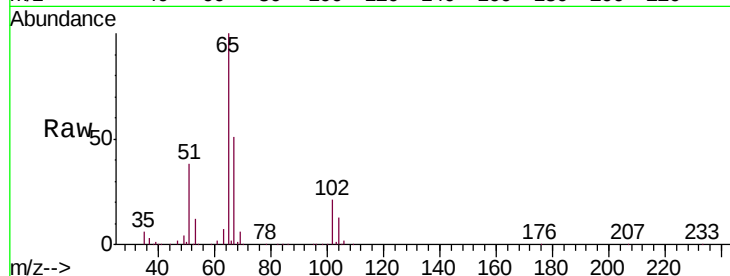




#33
 1,2-Dichloroethane-d4
 Concen: 55.396 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW013064.D
 Acq: 17 Sep 2019 02:46

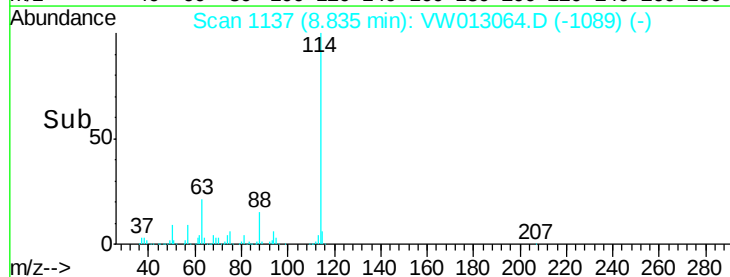
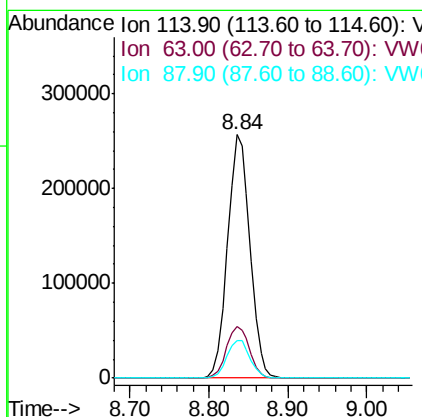
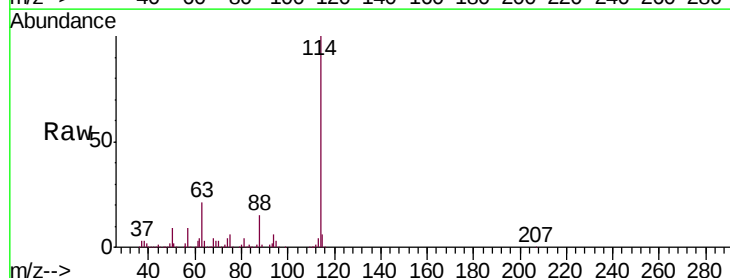
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 RBR-200028

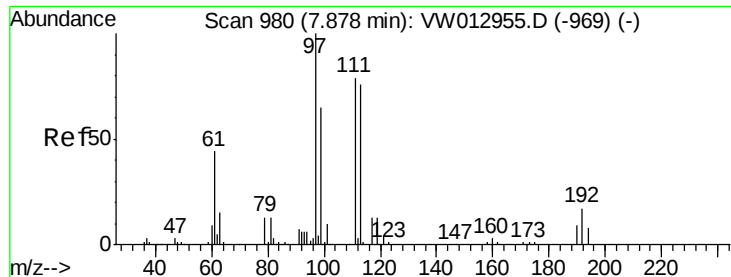
Tgt Ion: 65 Resp: 172188
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1137
 Delta R.T. -0.01 min
 Lab File: VW013064.D
 Acq: 17 Sep 2019 02:46

Tgt Ion: 114 Resp: 505961
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 43.4
 88 15.2 0.0 31.6

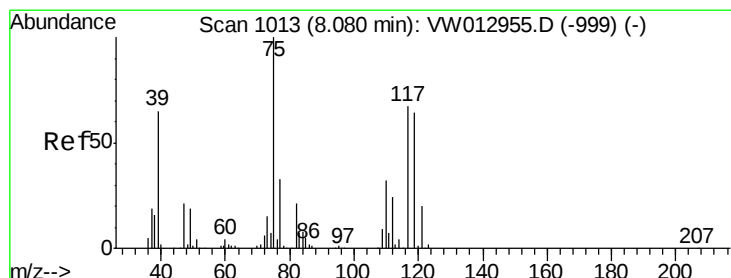
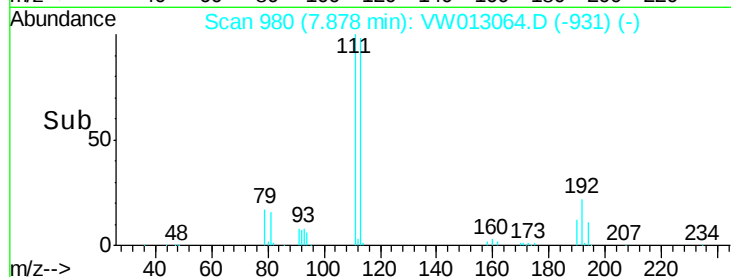
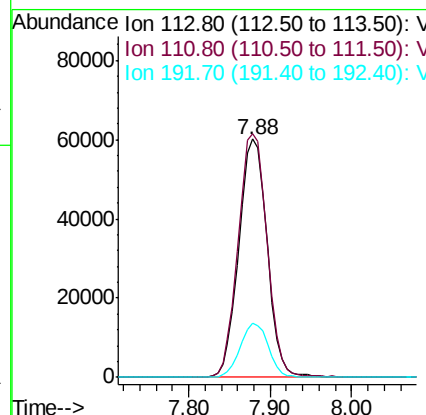
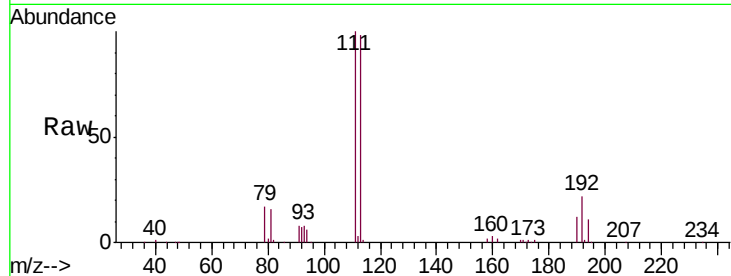




#35
 Dibromofluoromethane
 Concen: 52.573 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW013064.D
 Acq: 17 Sep 2019 02:46

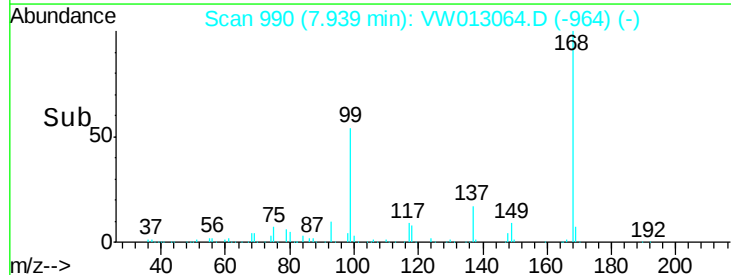
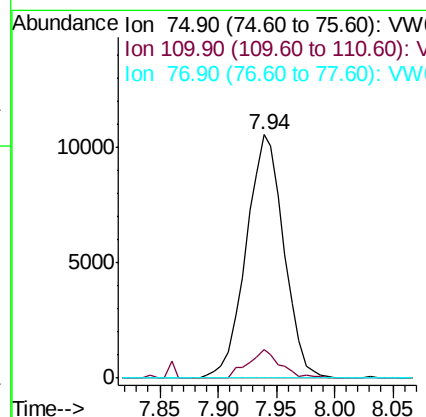
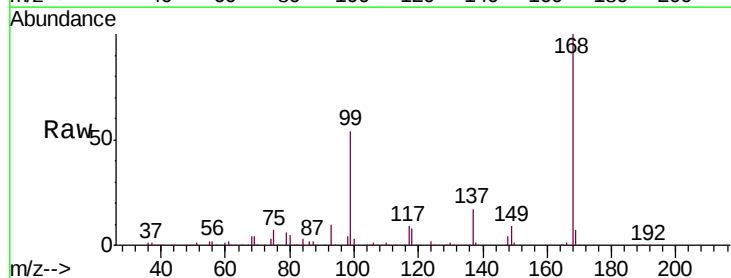
Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200028

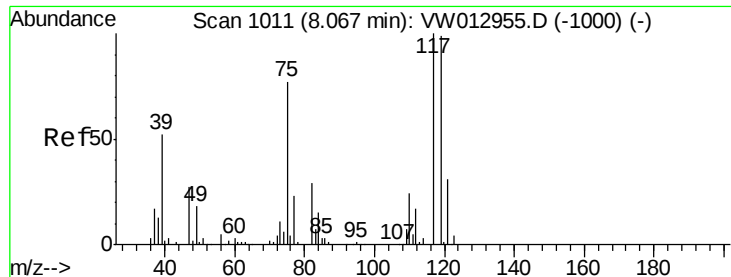
Tgt Ion: 113 Resp: 144334
 Ion Ratio Lower Upper
 113 100
 111 104.5 82.8 124.2
 192 22.7 17.8 26.8



#36
 1,1-Dichloropropene
 Concen: 5.904 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW013064.D
 Acq: 17 Sep 2019 02:46

Tgt Ion: 75 Resp: 23871
 Ion Ratio Lower Upper
 75 100
 110 10.0 16.4 49.1#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 7.328 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW013064.D

Acq: 17 Sep 2019 02:46

Instrument :

MSVOA_W

ClientSampleId :

RBR-200028

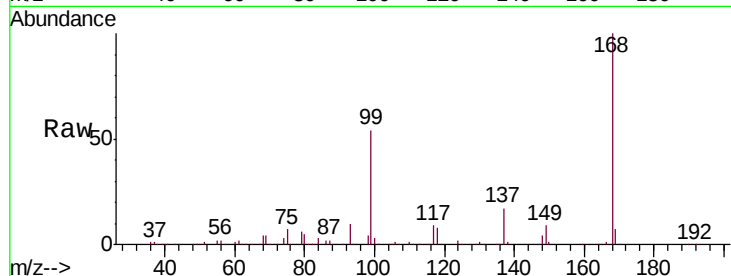
Tgt Ion:117 Resp: 30360

Ion Ratio Lower Upper

117 100

119 5.4 79.4 119.0#

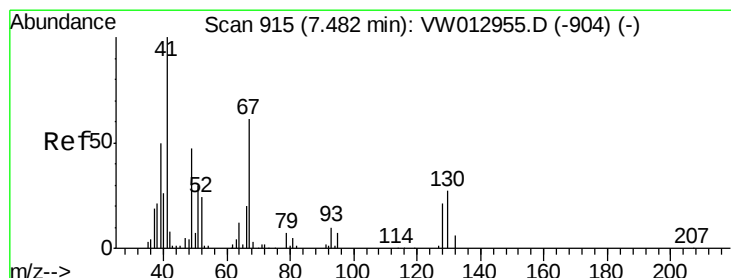
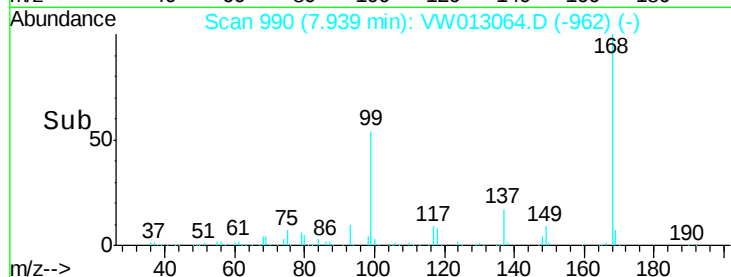
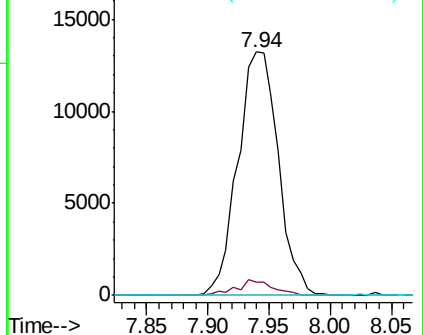
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 1.950 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.05 min

Lab File: VW013064.D

Acq: 17 Sep 2019 02:46

Tgt Ion: 41 Resp: 2756

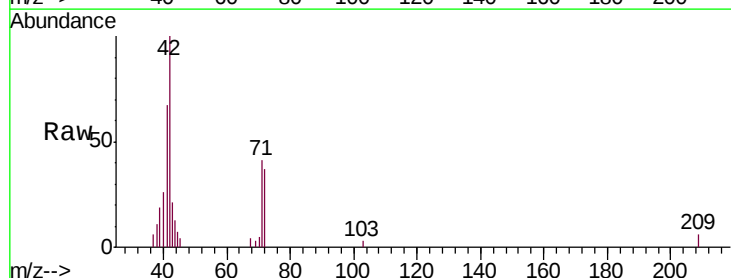
Ion Ratio Lower Upper

41 100

39 32.0 48.2 72.4#

67 1.8 47.5 71.3#

52 0.0 21.0 31.4#

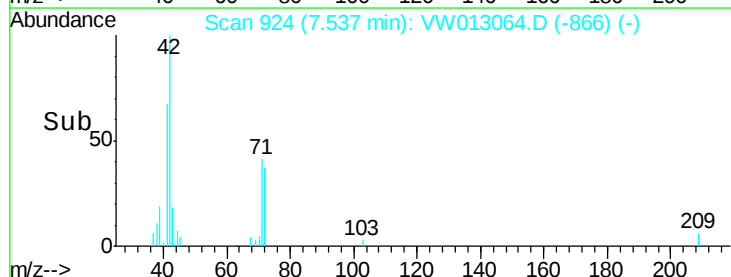
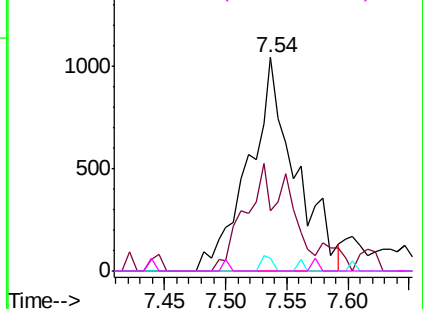


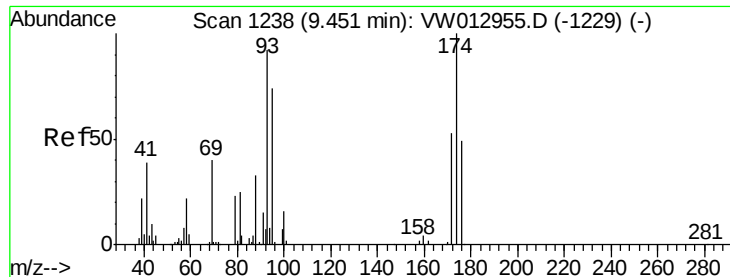
Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW





#49

1,4-Dioxane

Concen: 1.246 ug/l

RT: 9.70 min Scan# 1279

Delta R.T. 0.25 min

Lab File: VW013064.D

Acq: 17 Sep 2019 02:46

Instrument :

MSVOA_W

ClientSampleId :

RBR-200028

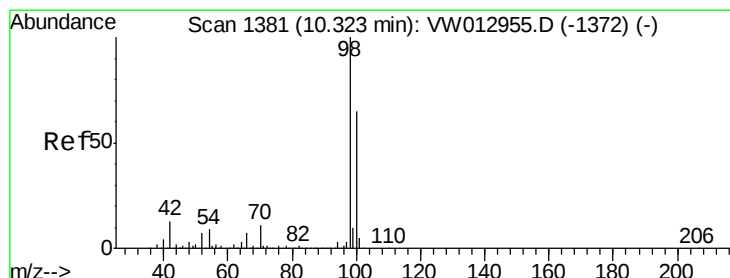
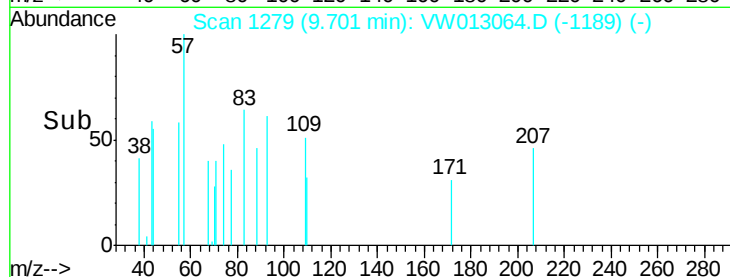
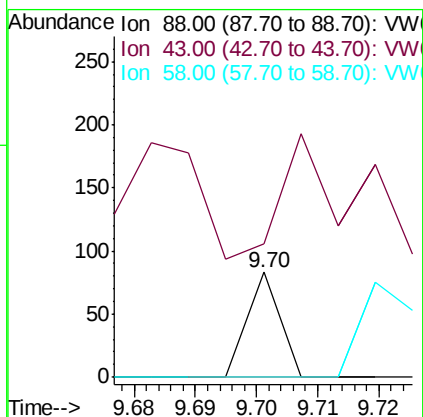
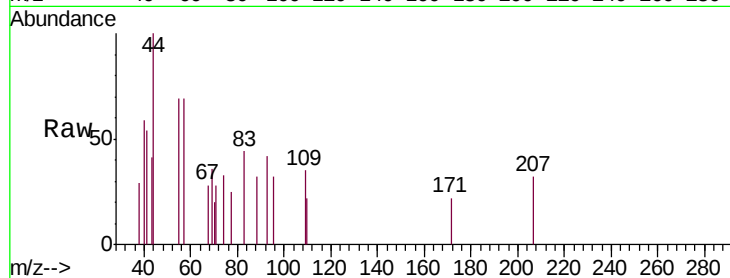
Tgt Ion: 88 Resp: 30

Ion Ratio Lower Upper

88 100

43 123.3 31.3 46.9#

58 0.0 60.2 90.2#



#50

Toluene-d8

Concen: 57.386 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013064.D

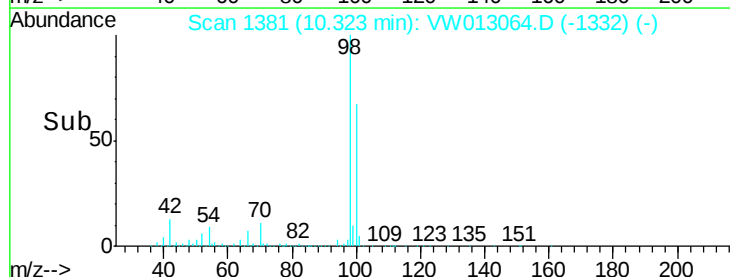
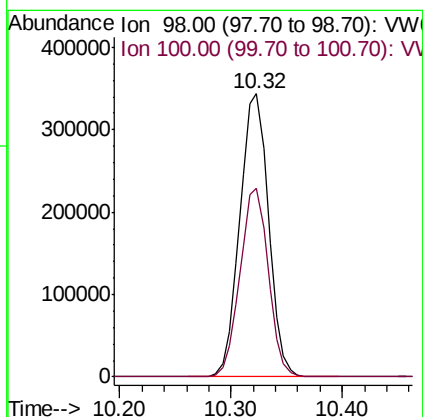
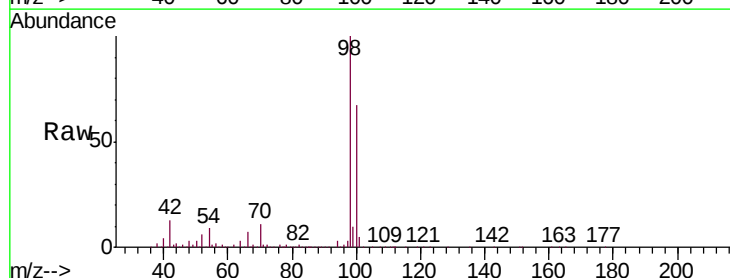
Acq: 17 Sep 2019 02:46

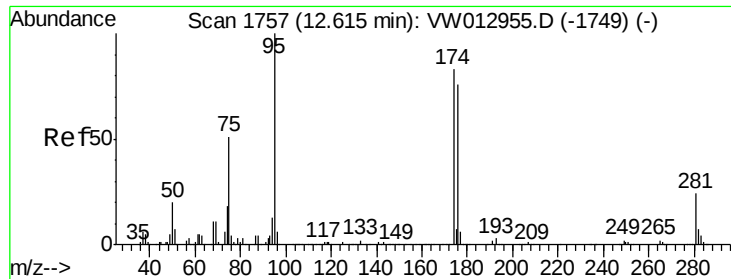
Tgt Ion: 98 Resp: 616507

Ion Ratio Lower Upper

98 100

100 65.8 52.1 78.1





#62

4-Bromofluorobenzene

Concen: 52.467 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013064.D

Acq: 17 Sep 2019 02:46

Instrument :

MSVOA_W

ClientSampleId :

RBR-200028

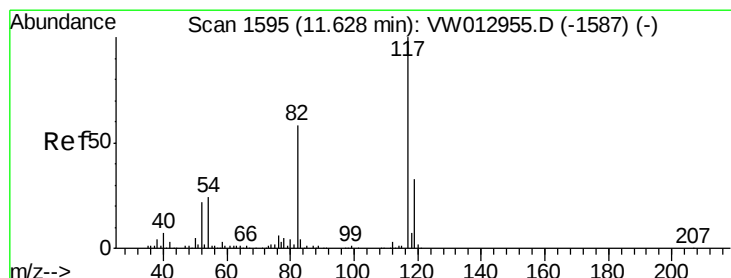
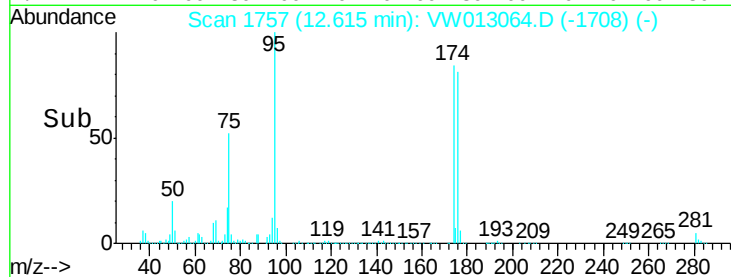
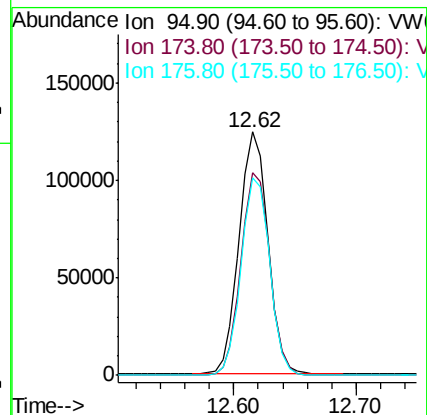
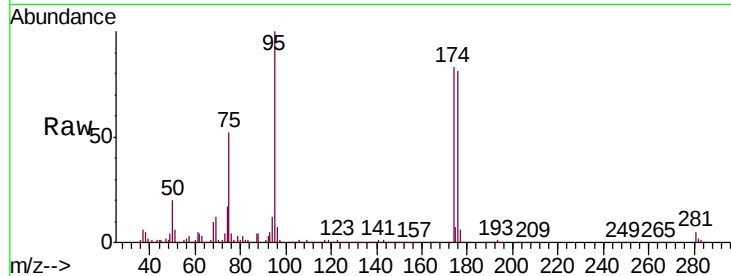
Tgt Ion: 95 Resp: 202678

Ion Ratio Lower Upper

95 100

174 84.0 0.0 170.4

176 80.9 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: VW013064.D

Acq: 17 Sep 2019 02:46

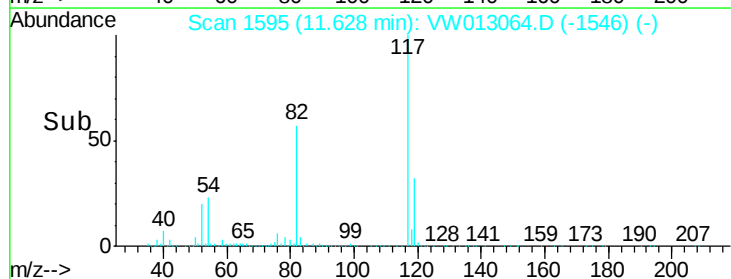
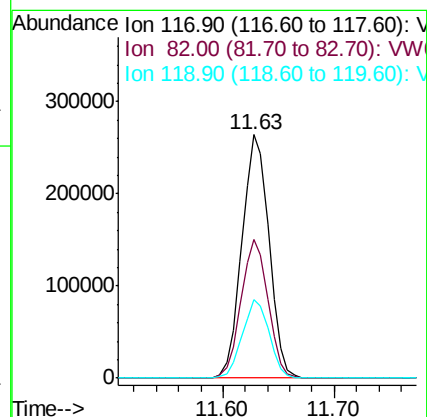
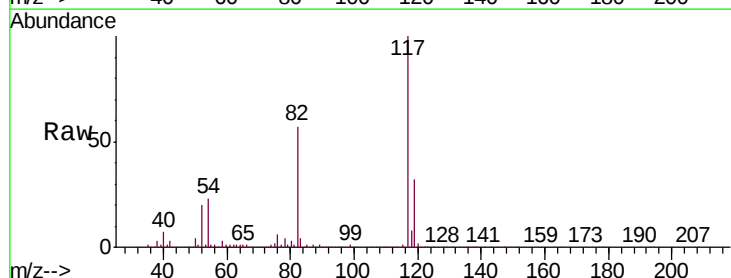
Tgt Ion: 117 Resp: 445621

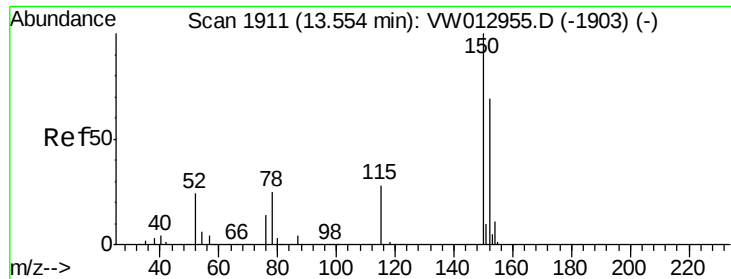
Ion Ratio Lower Upper

117 100

82 56.8 46.3 69.5

119 32.4 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.01 min

Lab File: VW013064.D

Acq: 17 Sep 2019 02:46

Instrument :

MSVOA_W

ClientSampleId :

RBR-200028

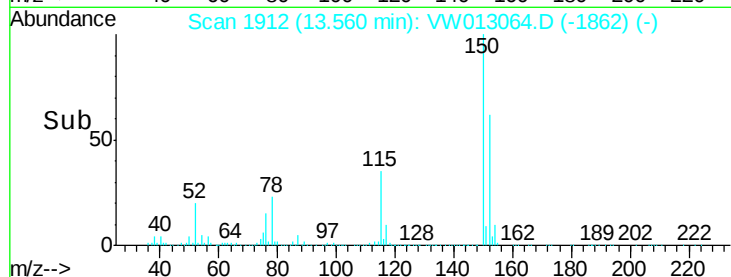
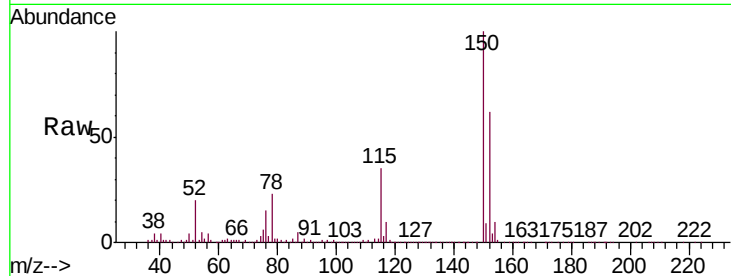
Tgt Ion: 152 Resp: 184800

Ion Ratio Lower Upper

152 100

115 58.4 28.8 86.4

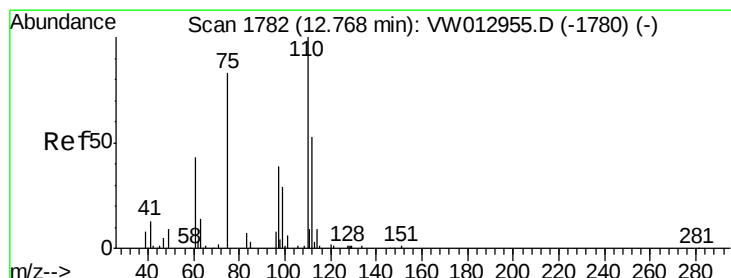
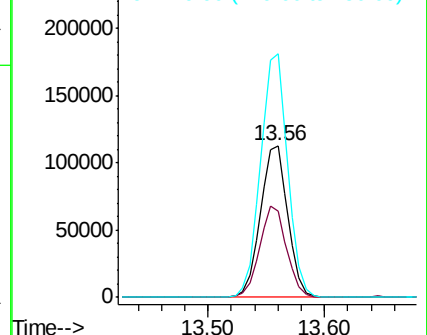
150 159.1 0.0 340.2



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



#76

1,2,3-Trichloropropane

Concen: 62.465 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013064.D

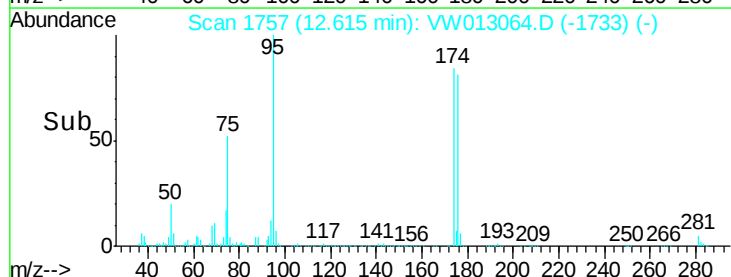
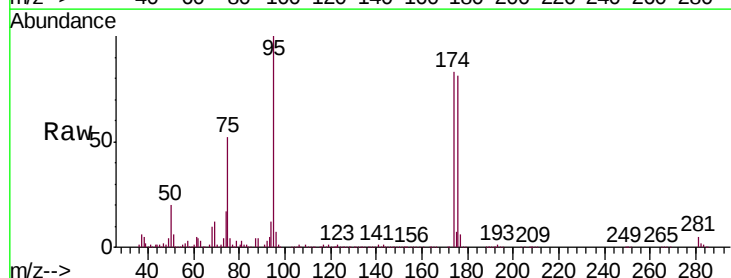
Acq: 17 Sep 2019 02:46

Tgt Ion: 75 Resp: 101113

Ion Ratio Lower Upper

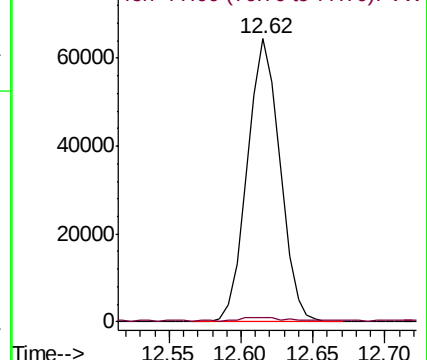
75 100

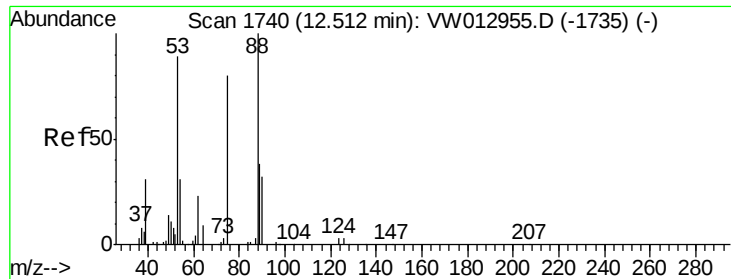
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 141.702 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013064.D

Acq: 17 Sep 2019 02:46

Instrument :

MSVOA_W

ClientSampleId :

RBR-200028

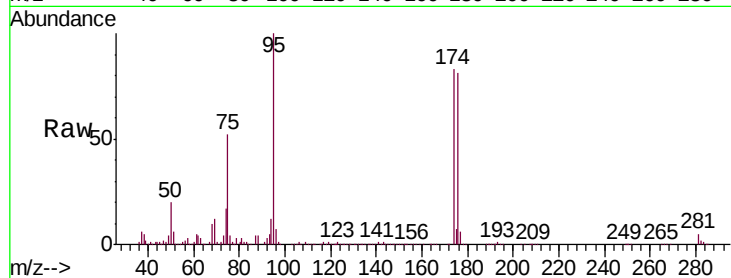
Tgt Ion: 75 Resp: 101113

Ion Ratio Lower Upper

75 100

53 0.4 85.6 128.4#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

