

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082919\
 Data File : VW012307.D
 Acq On : 29 Aug 2019 16:55
 Operator : SY/VA
 Sample : K4571-07
 Misc : 6.48G/5ML/MSVOA W/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200052

Quant Time: Aug 30 06:49:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	11522	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	16831	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	13294	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	2898	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	7633	55.73	ug/l	0.00
Spiked Amount			Recovery	=	111.46%	
35) Dibromofluoromethane	7.88	113	5521	54.95	ug/l	0.00
Spiked Amount			Recovery	=	109.90%	
50) Toluene-d8	10.33	98	19289	47.35	ug/l	0.00
Spiked Amount			Recovery	=	94.70%	
62) 4-Bromofluorobenzene	12.62	95	4374	30.46	ug/l	0.00
Spiked Amount			Recovery	=	60.92%	

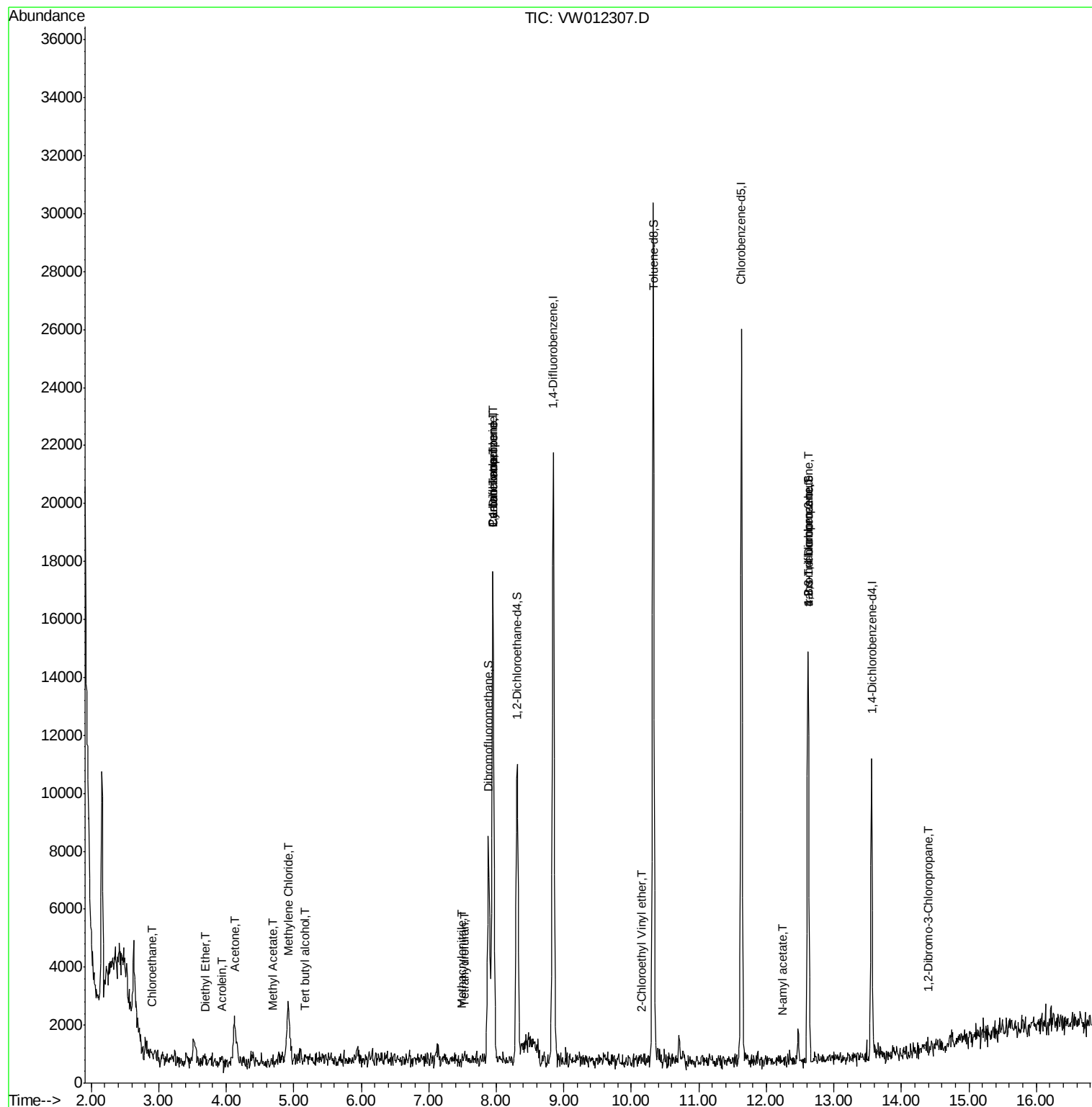
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	2.90	64	81	1.067	ug/l #	45
8) Diethyl Ether	3.70	74	73	1.138	ug/l	58
11) Tert butyl alcohol	5.17	59	20	2.426	ug/l #	71
13) Acrolein	3.93	56	22	2.835	ug/l #	15
16) Acetone	4.12	43	3019	86.228	ug/l	96
18) Methyl Acetate	4.69	43	123	1.418	ug/l #	57
20) Methylene Chloride	4.92	84	1257	9.497	ug/l #	84
29) Tetrahydrofuran	7.54	42	200	7.007	ug/l #	42
31) Cyclohexane	7.95	56	290	1.175	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	1065	6.123	ug/l #	46
38) Carbon Tetrachloride	7.95	117	1225	8.137	ug/l #	12
41) Methacrylonitrile	7.49	41	144	2.571	ug/l #	27
58) 2-Chloroethyl Vinyl ether	10.15	63	63	1.048	ug/l #	50
74) N-amyl acetate	12.24	43	108	1.646	ug/l #	47
76) 1,2,3-Trichloropropane	12.62	75	2520	89.284	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	2520	195.759	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	14.40	75	19	2.831	ug/l #	5

(#) = 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# 992

Delta R.T. 0.01 min

Lab File: VW012307.D

Acq: 29 Aug 2019 16:55

Instrument :

MSVOA_W

ClientSampleId :

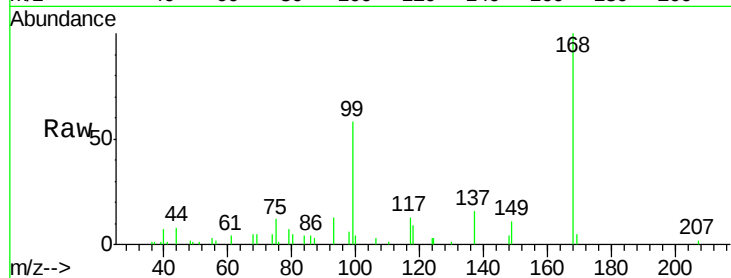
RBR-200052

Tot Ion:168 Resp: 11522

Ion Ratio Lower Upper

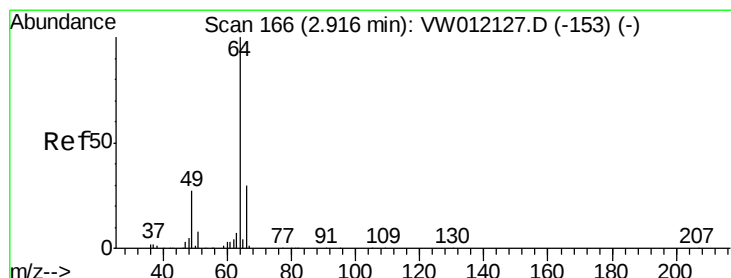
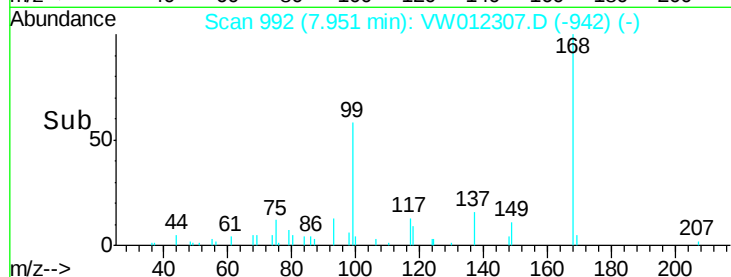
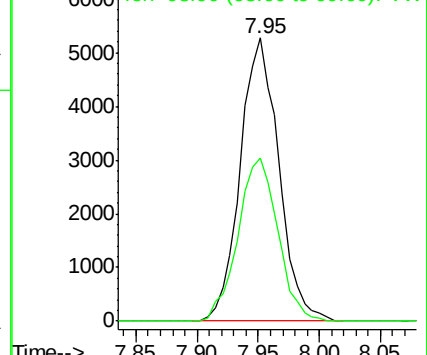
168 100

99 57.8 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#6

Chloroethane

Concen: 1.067 ug/l

RT: 2.90 min Scan# 163

Delta R.T. -0.02 min

Lab File: VW012307.D

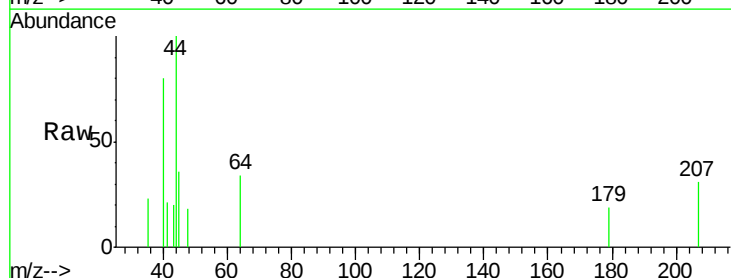
Acq: 29 Aug 2019 16:55

Tgt Ion: 64 Resp: 81

Ion Ratio Lower Upper

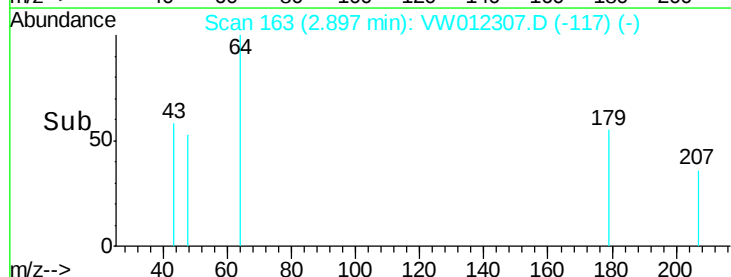
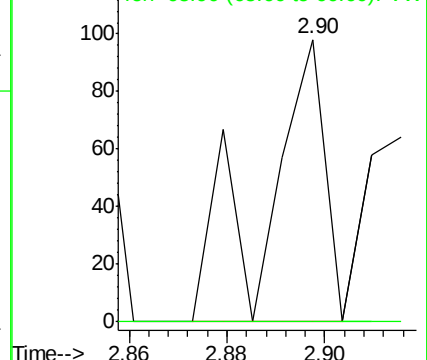
64 100

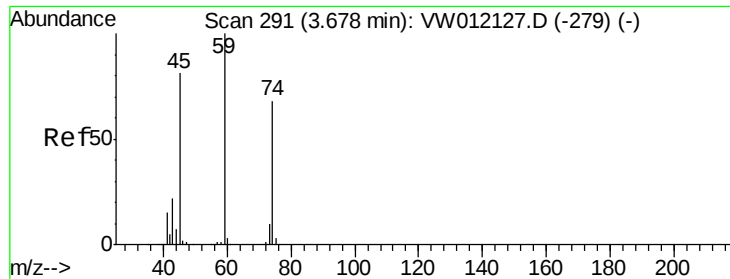
66 0.0 23.8 35.8#



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW





#8

Diethyl Ether

Concen: 1.138 ug/l

RT: 3.70 min Scan# 294

Delta R.T. 0.02 min

Lab File: VW012307.D

Acq: 29 Aug 2019 16:55

Instrument :

MSVOA_W

ClientSampled :

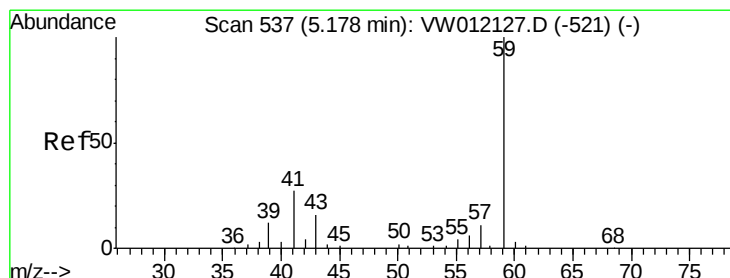
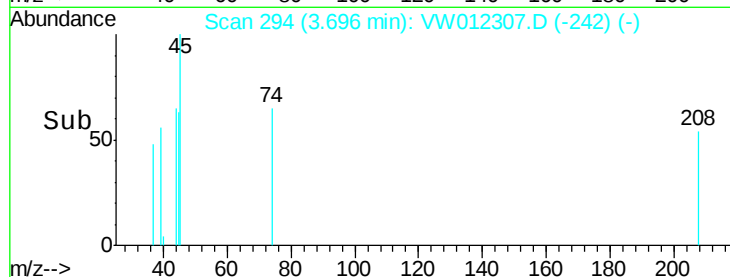
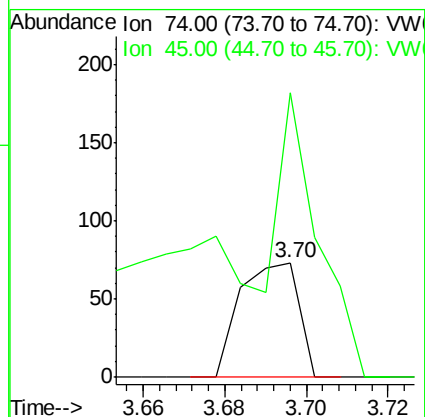
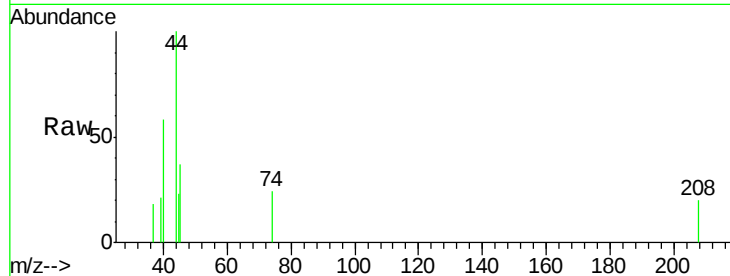
RBR-200052

Tot Ion: 74 Resp: 73

Ion Ratio Lower Upper

74 100

45 164.4 59.2 177.6



#11

Tert butyl alcohol

Concen: 2.426 ug/l

RT: 5.17 min Scan# 536

Delta R.T. -0.01 min

Lab File: VW012307.D

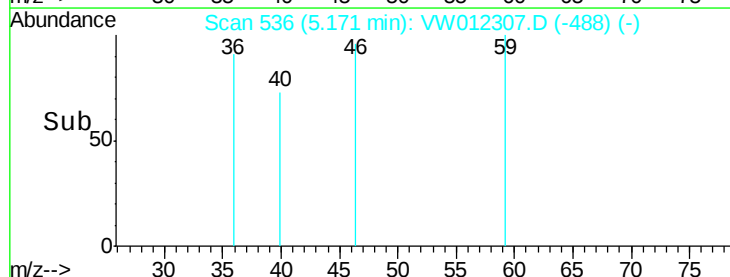
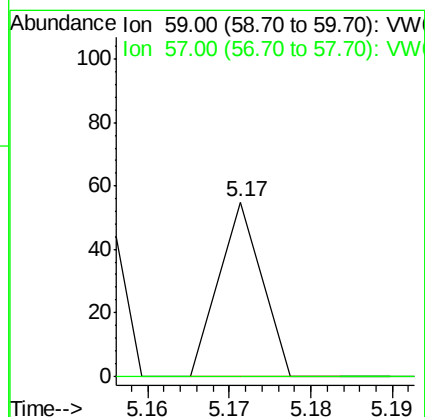
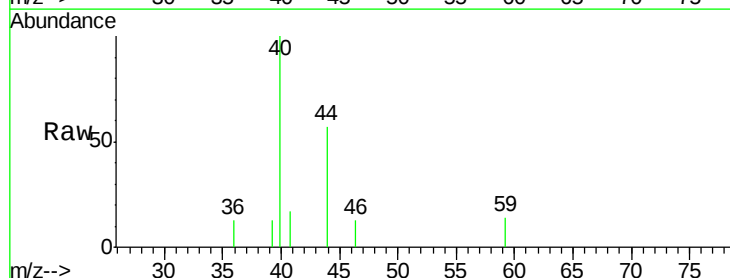
Acq: 29 Aug 2019 16:55

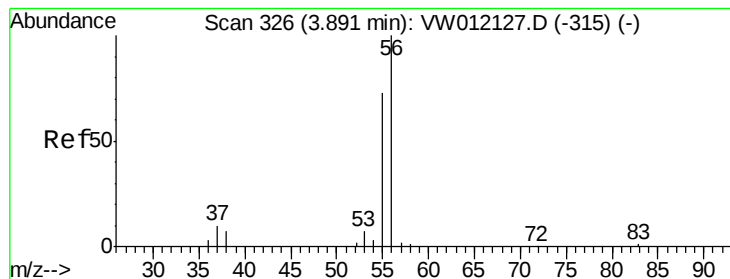
Tgt Ion: 59 Resp: 20

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#





#13

Acrolein

Concen: 2.835 ug/l

RT: 3.93 min Scan# 333

Delta R.T. 0.04 min

Lab File: VW012307.D

Acq: 29 Aug 2019 16:55

Instrument :

MSVOA_W

ClientSampled :

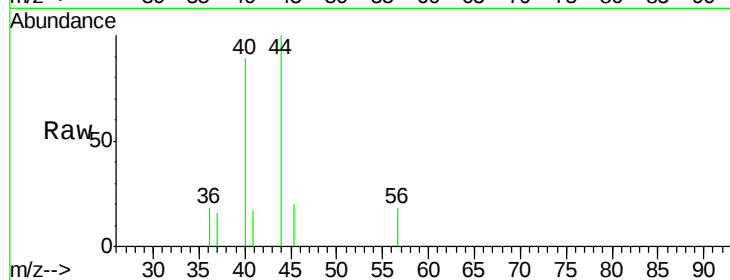
RBR-200052

Tot Ion: 56 Resp: 22

Ion Ratio Lower Upper

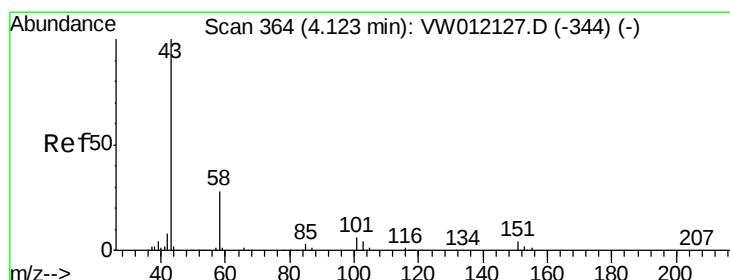
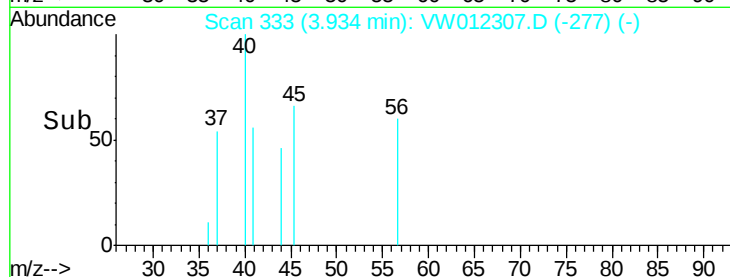
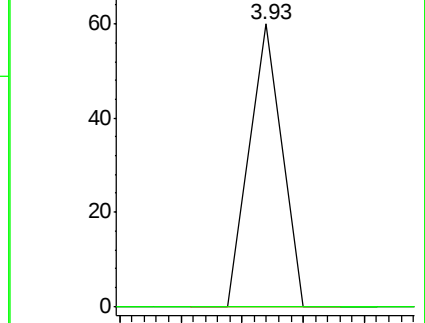
56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 86.228 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW012307.D

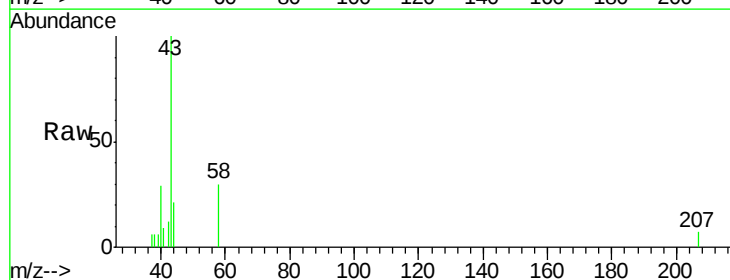
Acq: 29 Aug 2019 16:55

Tgt Ion: 43 Resp: 3019

Ion Ratio Lower Upper

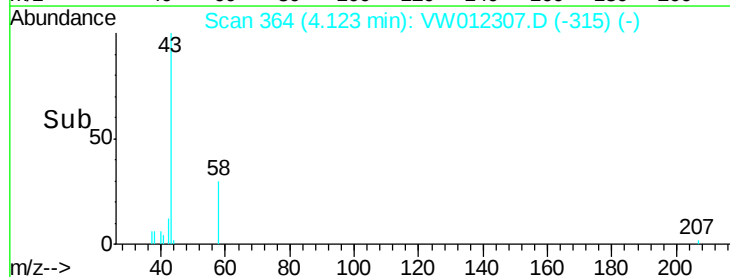
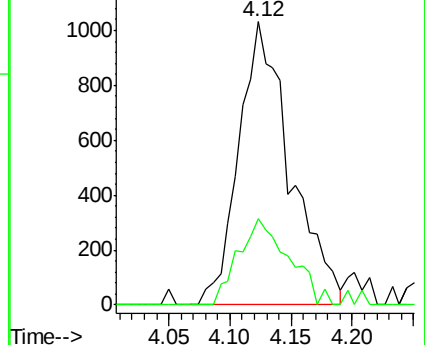
43 100

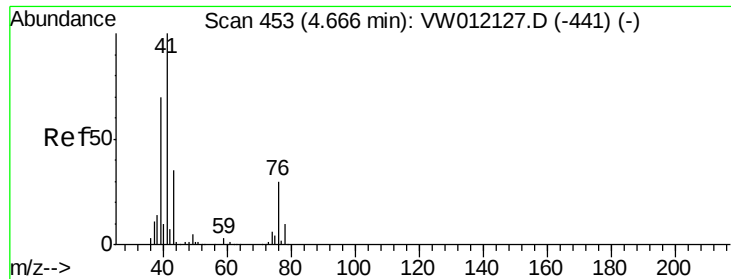
58 30.3 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

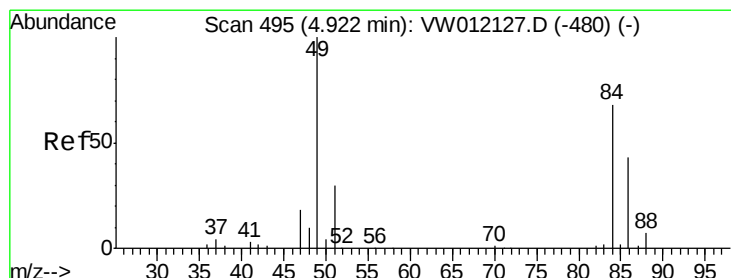
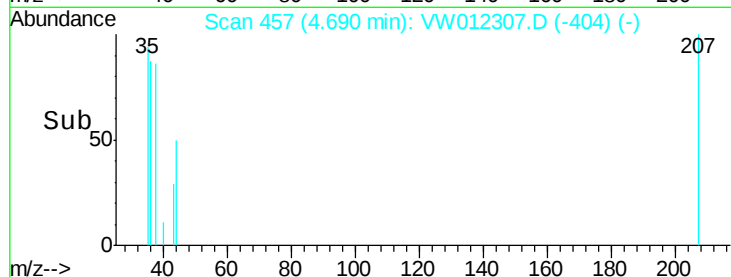
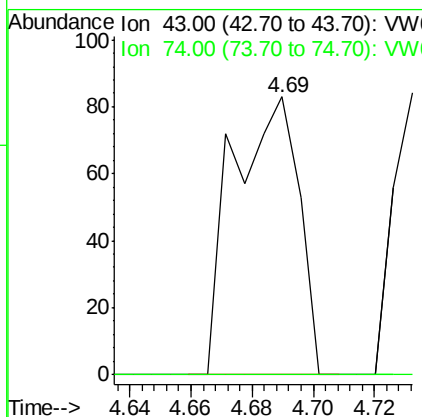
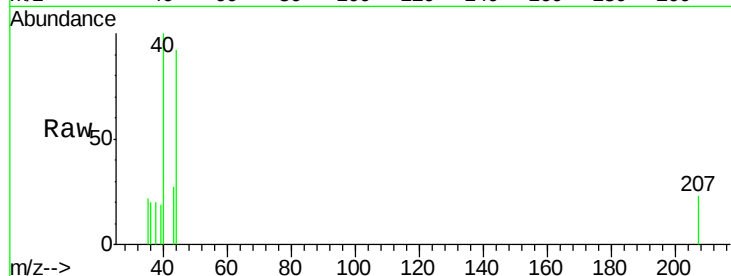




#18
Methyl Acetate
Concen: 1.418 ug/l
RT: 4.69 min Scan# 457
Delta R.T. 0.02 min
Lab File: VW012307.D
Acq: 29 Aug 2019 16:55

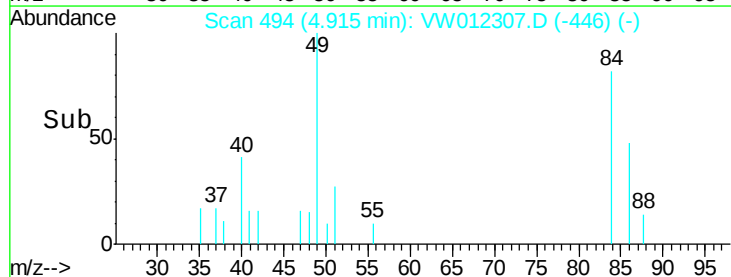
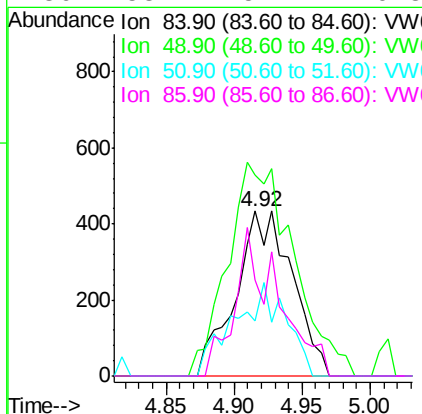
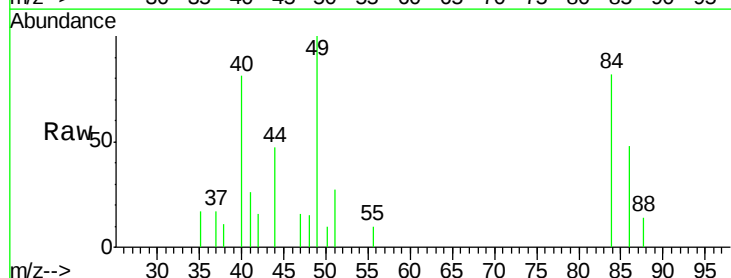
Instrument :
MSVOA_W
ClientSampleId :
RBR-200052

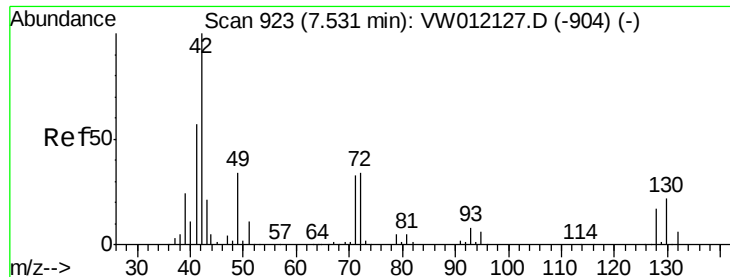
Tot Ion: 43 Resp: 123
Ion Ratio Lower Upper
43 100
74 0.0 15.7 23.5#



#20
Methylene Chloride
Concen: 9.497 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW012307.D
Acq: 29 Aug 2019 16:55

Tgt Ion: 84 Resp: 1257
Ion Ratio Lower Upper
84 100
49 122.2 117.8 176.8
51 33.3 35.6 53.4#
86 58.7 51.2 76.8





#29

Tetrahydrofuran

Concen: 7.007 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012307.D

Acq: 29 Aug 2019 16:55

Instrument :

MSVOA_W

ClientSampled :

RBR-200052

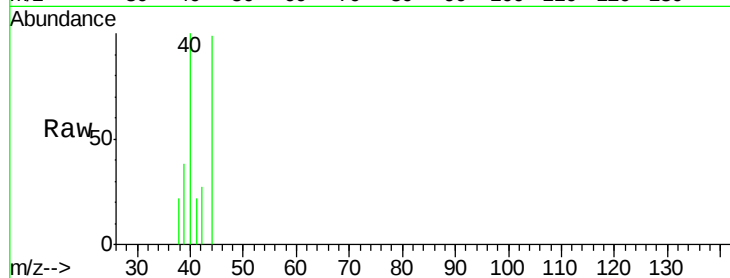
Tot Ion: 42 Resp: 200

Ion Ratio Lower Upper

42 100

72 0.0 27.3 40.9#

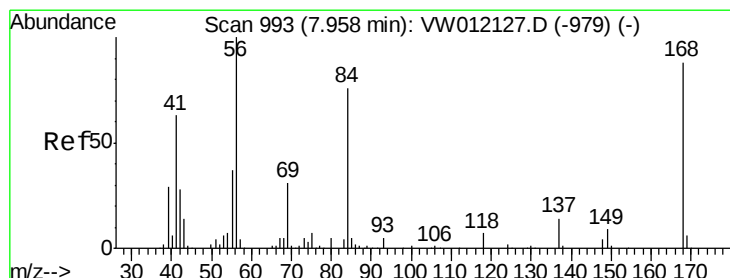
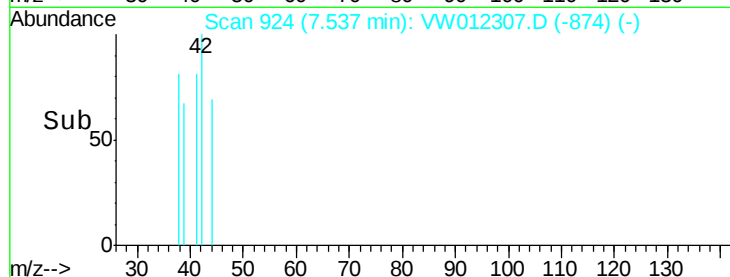
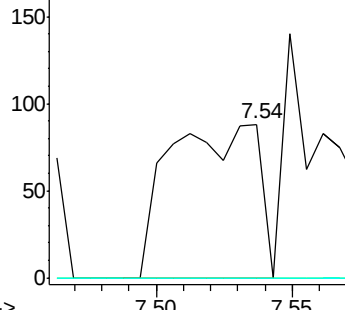
71 0.0 25.5 38.3#



Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.175 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012307.D

Acq: 29 Aug 2019 16:55

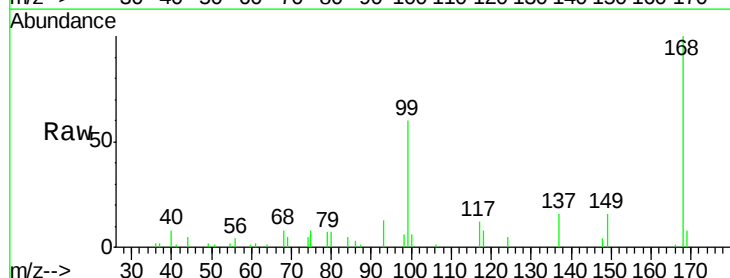
Tgt Ion: 56 Resp: 290

Ion Ratio Lower Upper

56 100

69 132.8 24.9 37.3#

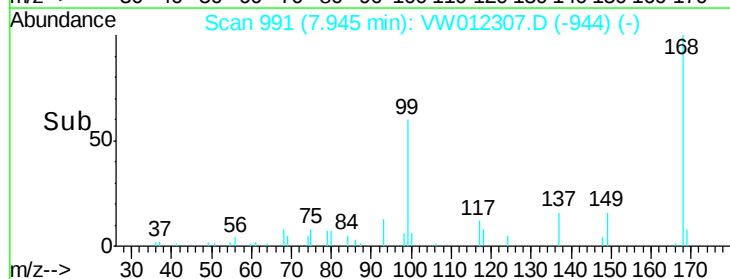
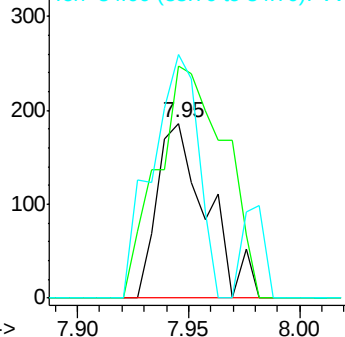
84 139.2 60.6 90.8#

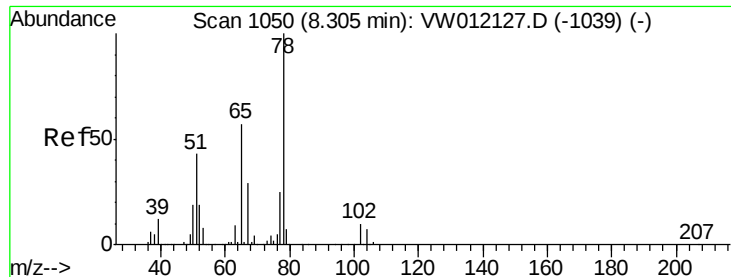


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW

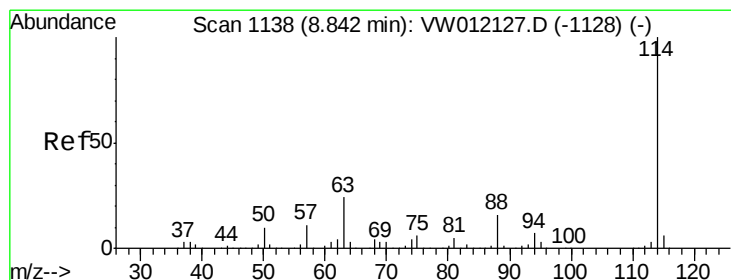
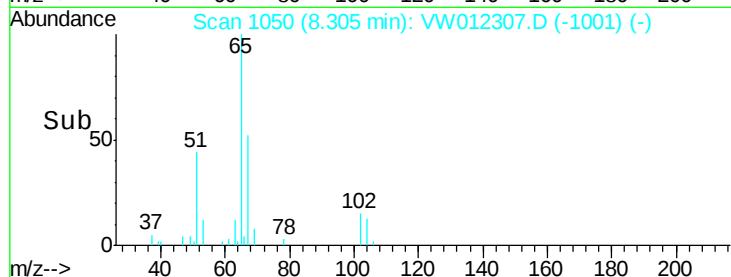
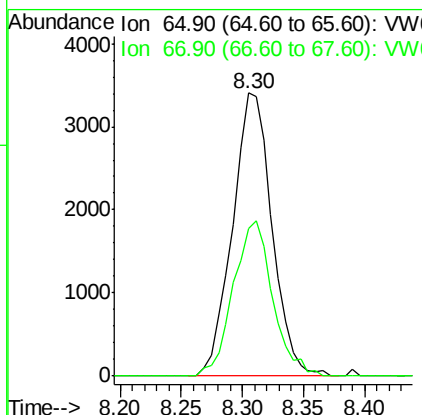
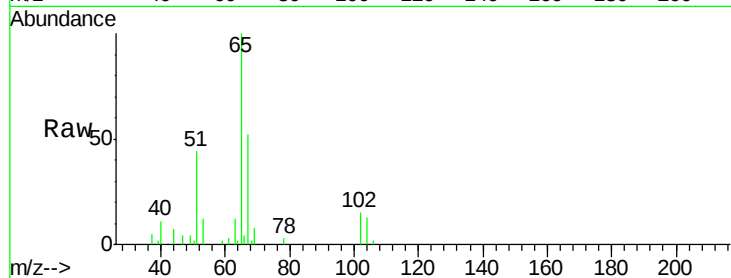




#33
 1,2-Dichloroethane-d4
 Concen: 55.728 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW012307.D
 Acq: 29 Aug 2019 16:55

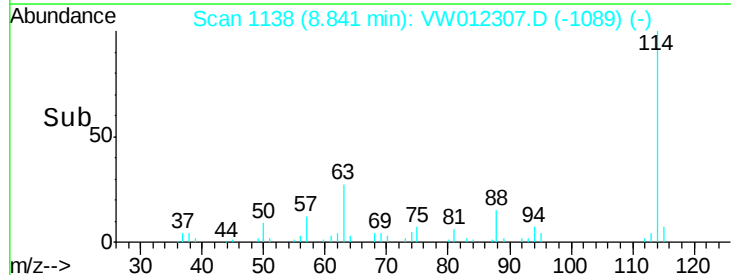
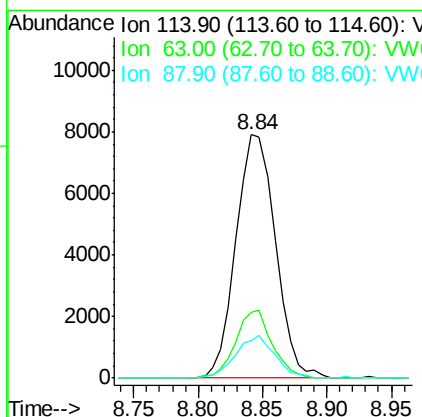
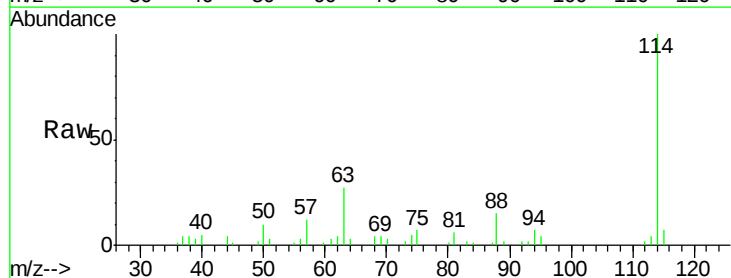
Instrument :
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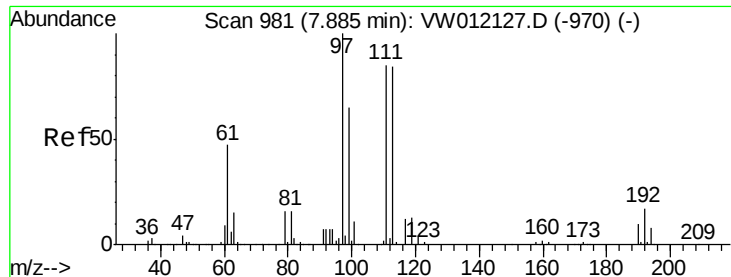
Tot Ion: 65 Resp: 7633
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012307.D
 Acq: 29 Aug 2019 16:55

Tgt Ion: 114 Resp: 16831
 Ion Ratio Lower Upper
 114 100
 63 26.8 0.0 48.6
 88 15.3 0.0 32.2

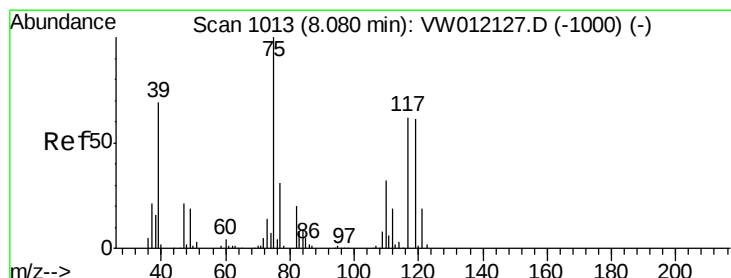
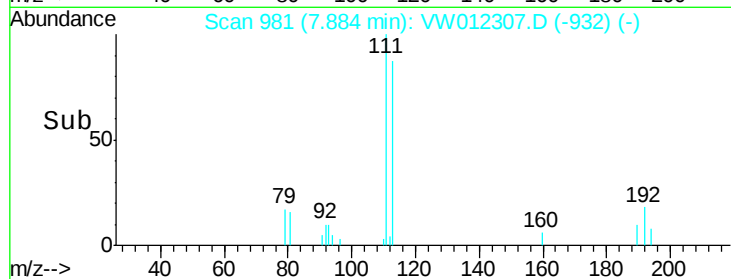
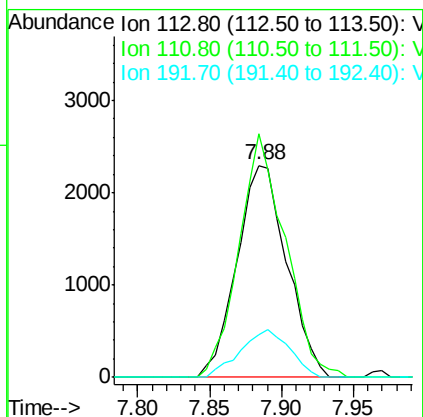
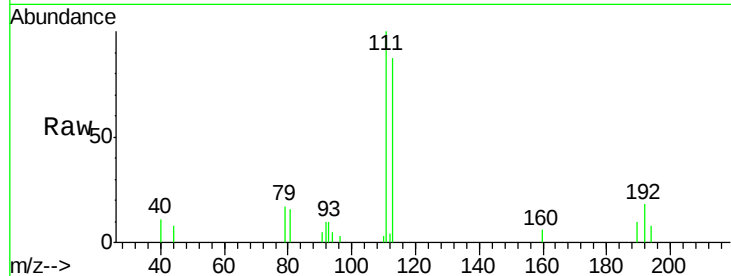




#35
 Dibromofluoromethane
 Concen: 54.955 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012307.D
 Acq: 29 Aug 2019 16:55

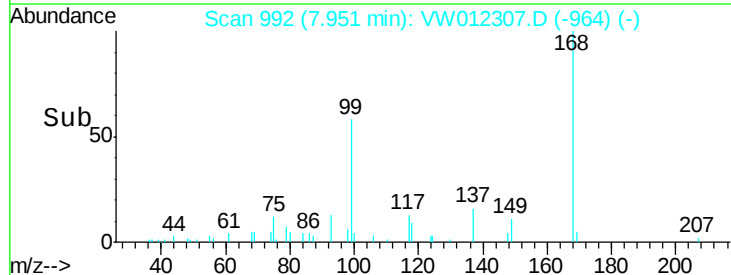
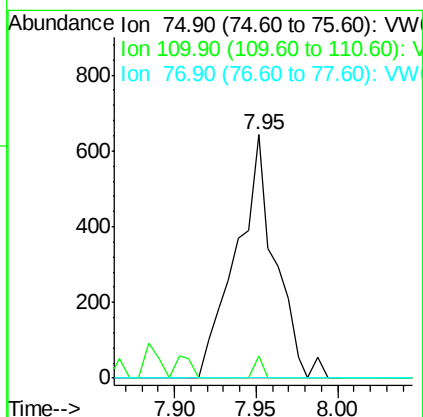
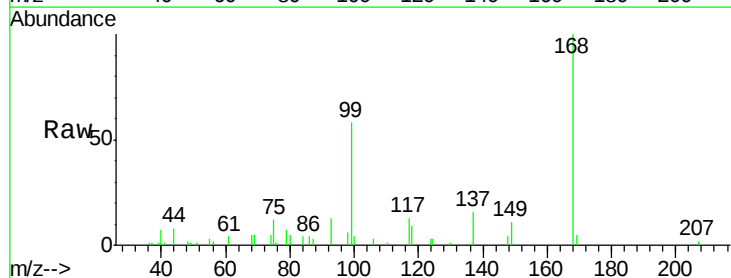
Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200052

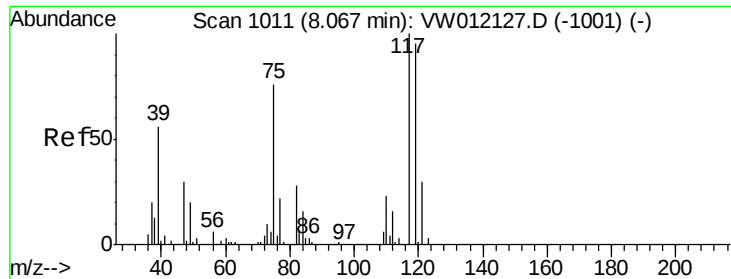
Tot Ion:113 Resp: 5521
 Ion Ratio Lower Upper
 113 100
 111 106.5 82.7 124.1
 192 22.3 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 6.123 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW012307.D
 Acq: 29 Aug 2019 16:55

Tgt Ion: 75 Resp: 1065
 Ion Ratio Lower Upper
 75 100
 110 2.1 15.6 46.8#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 8.137 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW012307.D

Acq: 29 Aug 2019 16:55

Instrument :

MSVOA_W

ClientSampleId :

RBR-200052

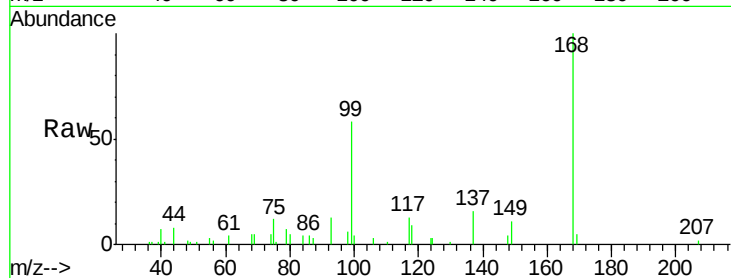
Tot Ion:117 Resp: 1225

Ion Ratio Lower Upper

117 100

119 0.0 76.2 114.2#

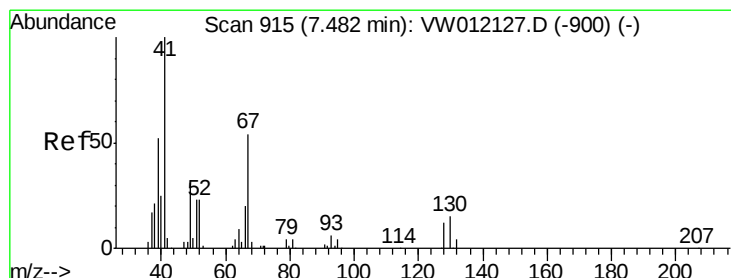
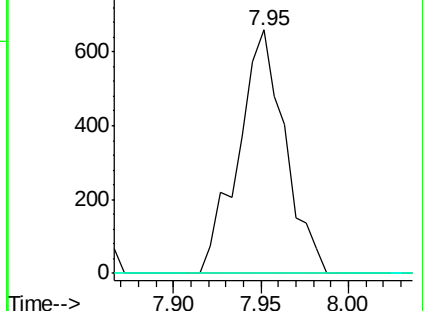
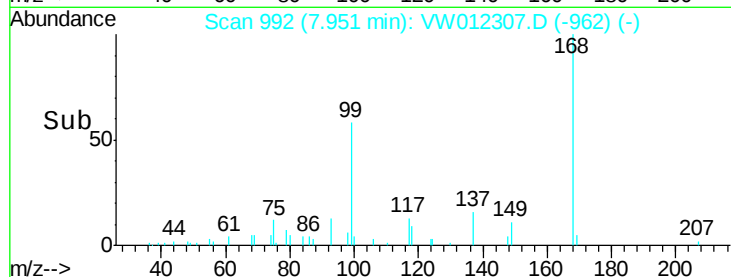
121 0.0 23.8 35.8#



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: 2.571 ug/l

RT: 7.49 min Scan# 917

Delta R.T. 0.01 min

Lab File: VW012307.D

Acq: 29 Aug 2019 16:55

Tgt Ion: 41 Resp: 144

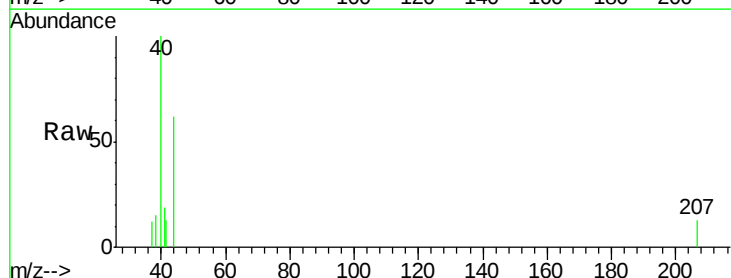
Ion Ratio Lower Upper

41 100

39 0.0 45.8 68.8#

67 0.0 46.2 69.4#

52 0.0 21.0 31.6#

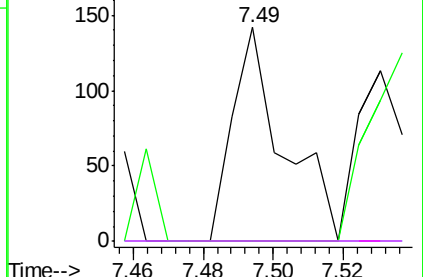
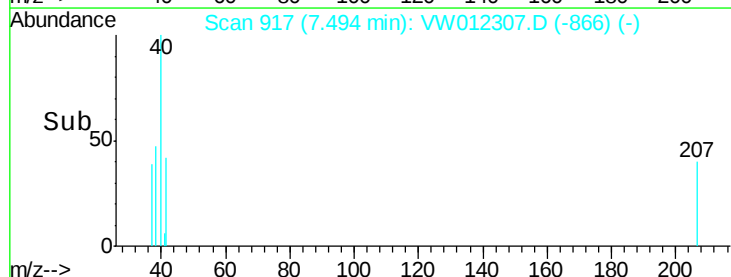


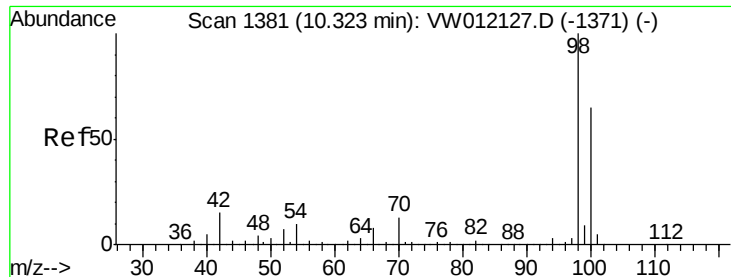
Abundance Ion 41.00 (40.70 to 41.70): VV

Ion 39.00 (38.70 to 39.70): VV

Ion 67.00 (66.70 to 67.70): VV

Ion 52.00 (51.70 to 52.70): VV





#50

Toluene-d8

Concen: 47.352 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VW012307.D

Acq: 29 Aug 2019 16:55

Instrument :

MSVOA_W

ClientSampled :

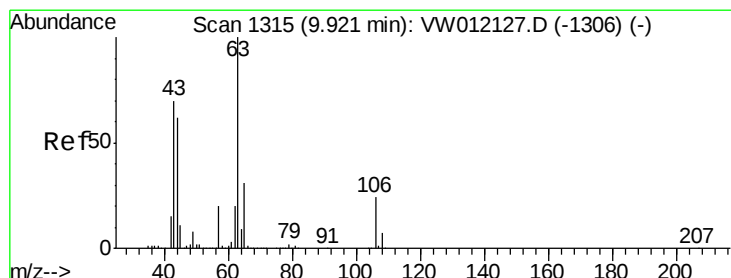
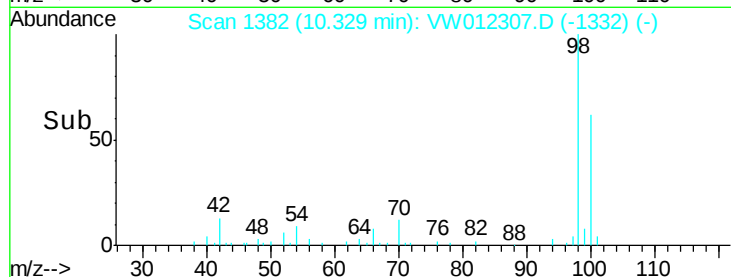
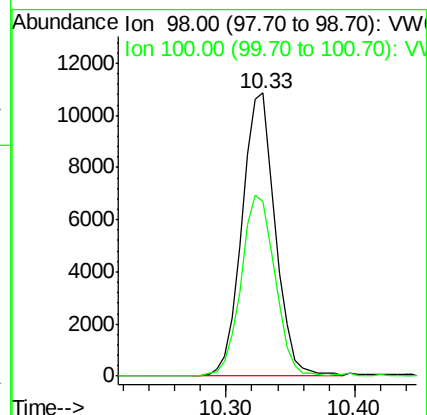
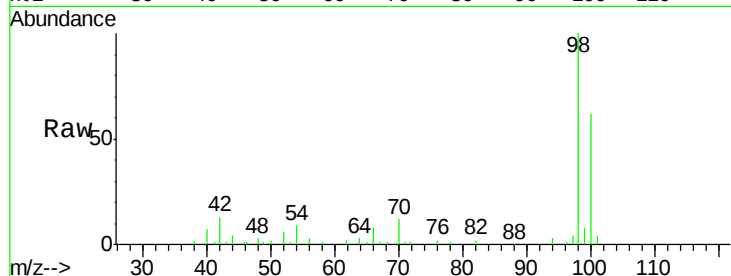
RBR-200052

Tot Ion: 98 Resp: 19289

Ion Ratio Lower Upper

98 100

100 65.1 52.4 78.6



#58

2-Chloroethyl Vinyl ether

Concen: 1.048 ug/l

RT: 10.15 min Scan# 1353

Delta R.T. 0.23 min

Lab File: VW012307.D

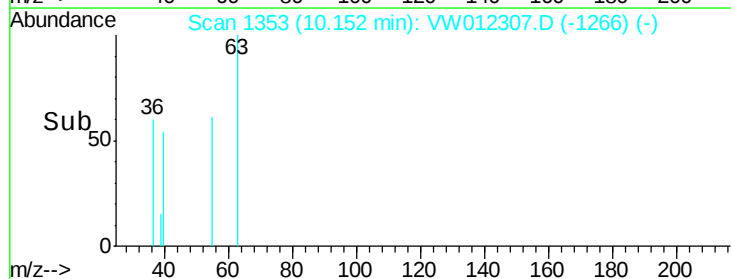
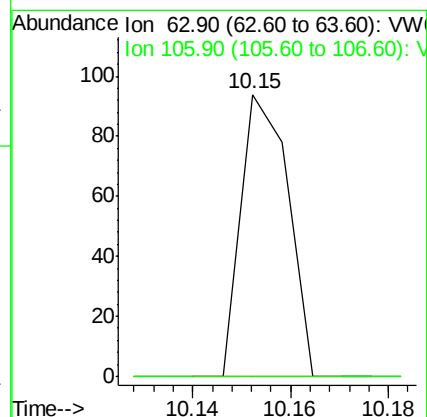
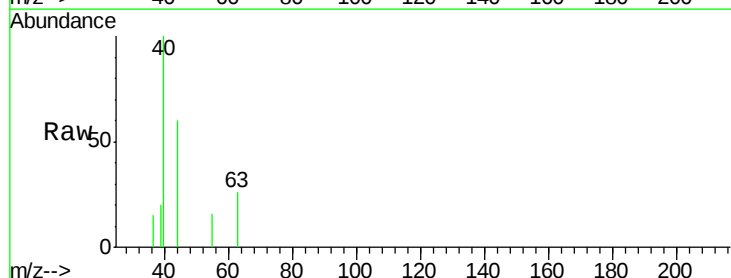
Acq: 29 Aug 2019 16:55

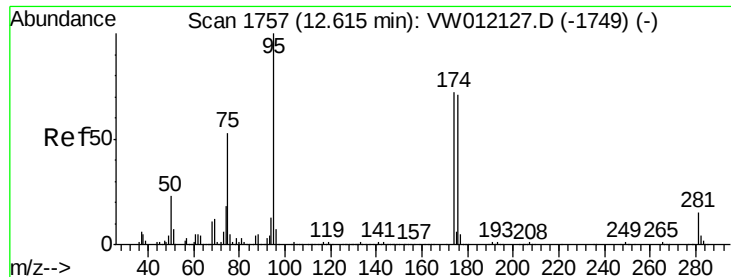
Tgt Ion: 63 Resp: 63

Ion Ratio Lower Upper

63 100

106 0.0 19.8 29.8#

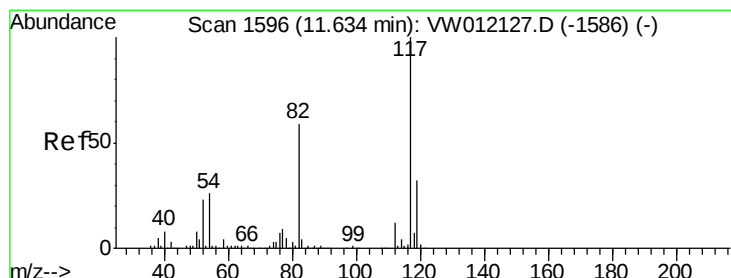
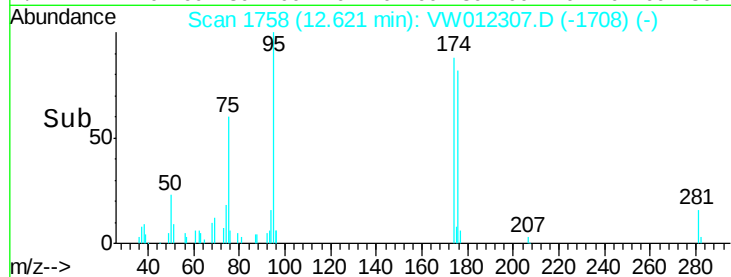
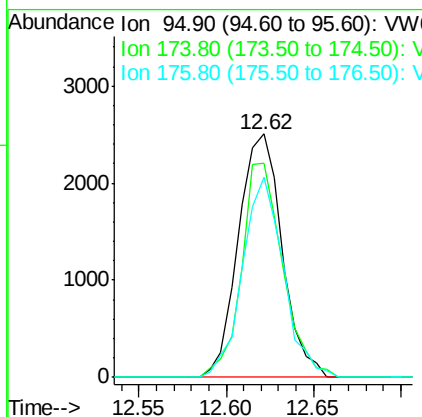
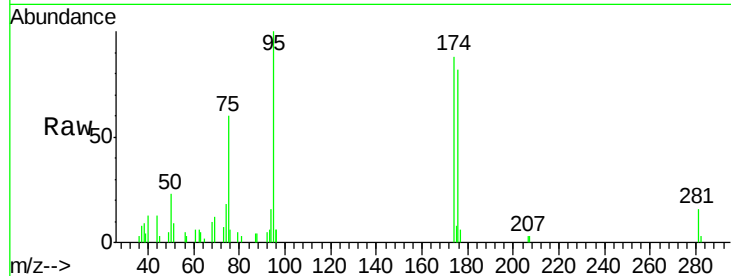




#62
4-Bromofluorobenzene
Concen: 30.461 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.01 min
Lab File: VW012307.D
Acq: 29 Aug 2019 16:55

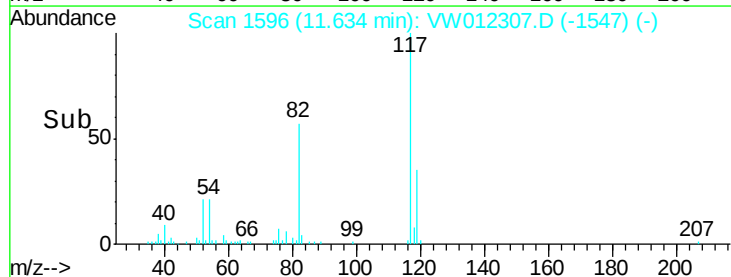
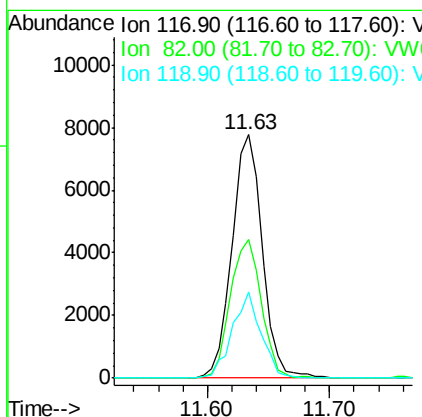
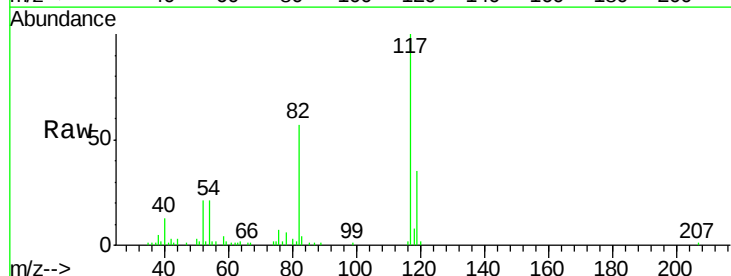
Instrument :
MSVOA_W
ClientSampleId :
RBR-200052

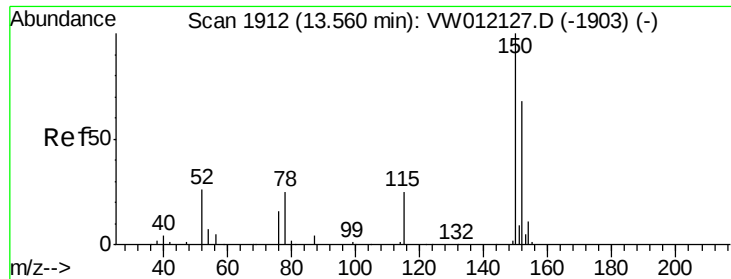
Tot Ion: 95 Resp: 4374
Ion Ratio Lower Upper
95 100
174 82.9 0.0 150.8
176 77.2 0.0 148.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012307.D
Acq: 29 Aug 2019 16:55

Tgt Ion: 117 Resp: 13294
Ion Ratio Lower Upper
117 100
82 57.2 47.4 71.2
119 35.2 25.4 38.2



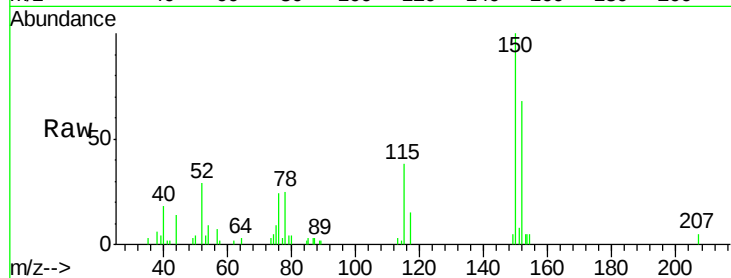


#72

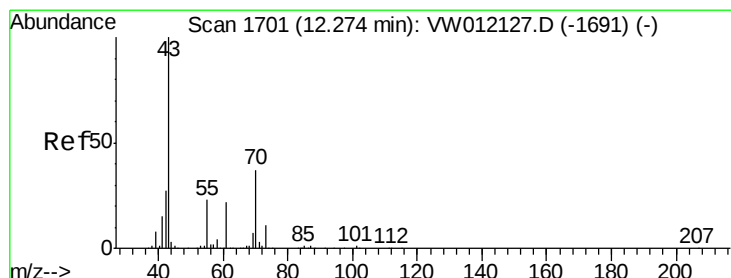
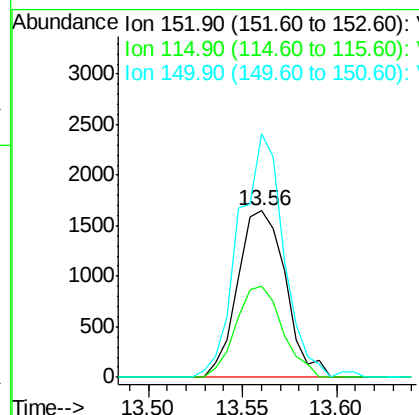
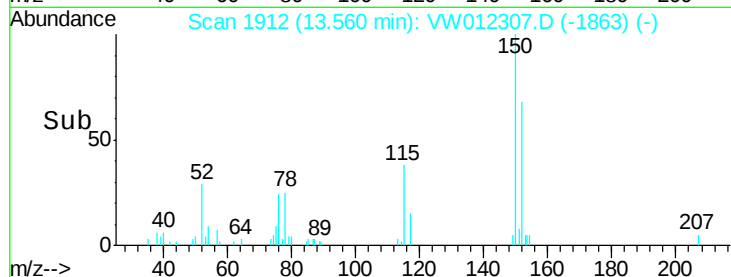
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012307.D
Acq: 29 Aug 2019 16:55

Instrument :
MSVOA_W
ClientSampled :
RBR-200052

Tot Ion:152 Resp: 2898
Ion Ratio Lower Upper
152 100
115 53.3 30.1 90.3
150 138.5 0.0 345.8



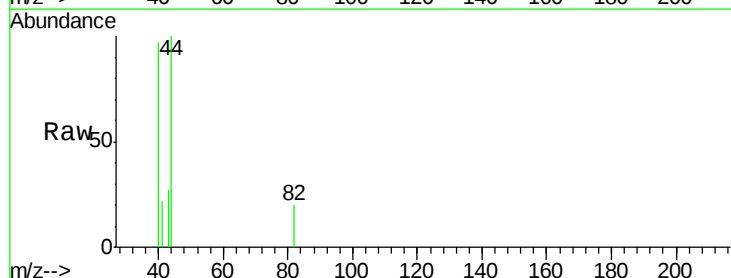
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



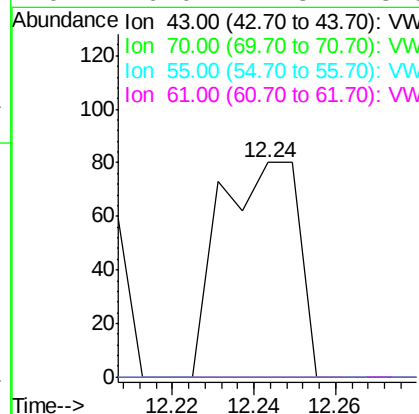
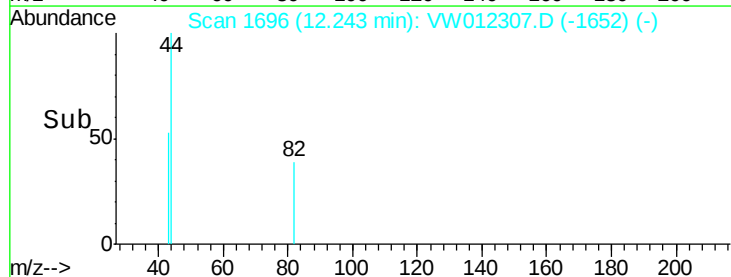
#74

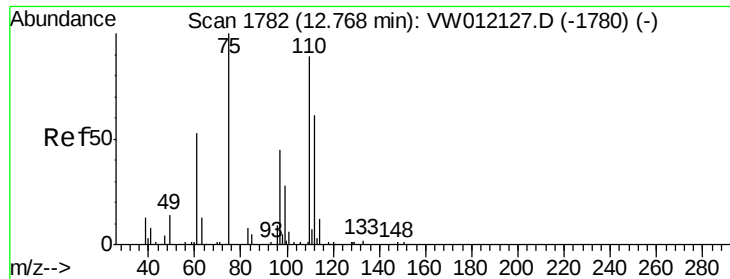
N-ethyl acetate
Concen: 1.646 ug/l
RT: 12.24 min Scan# 1696
Delta R.T. -0.03 min
Lab File: VW012307.D
Acq: 29 Aug 2019 16:55

Tgt Ion: 43 Resp: 108
Ion Ratio Lower Upper
43 100
70 0.0 28.6 43.0#
55 0.0 17.8 26.6#
61 0.0 17.3 25.9#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 70.00 (69.70 to 70.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 61.00 (60.70 to 61.70): VW

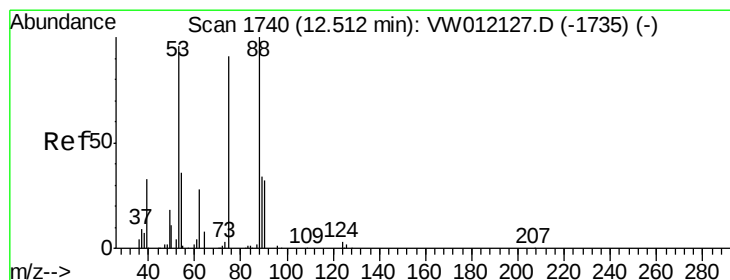
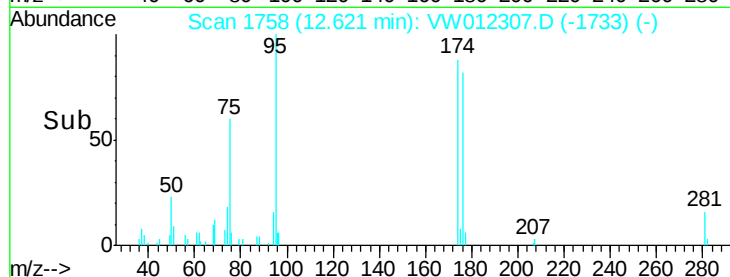
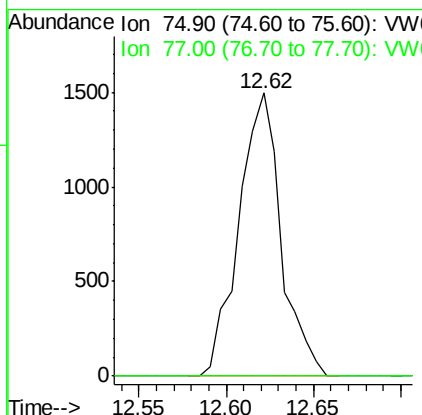
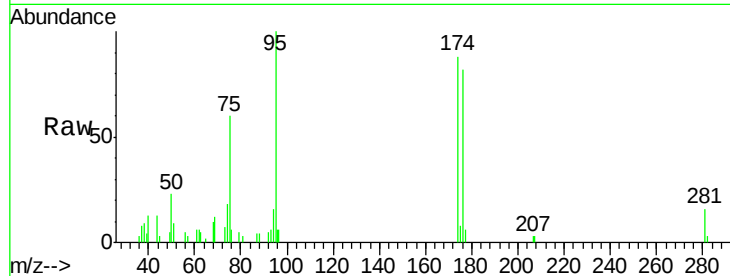




#76
 1,2,3-Trichloropropane
 Concen: 89.284 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW012307.D
 Acq: 29 Aug 2019 16:55

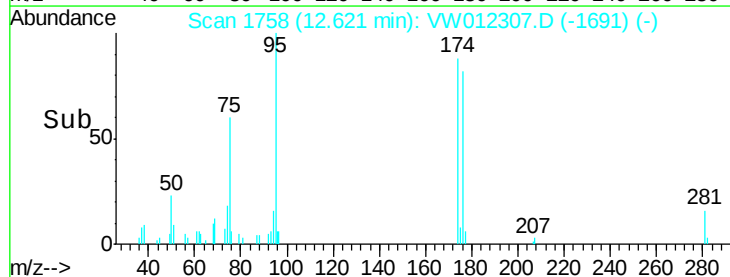
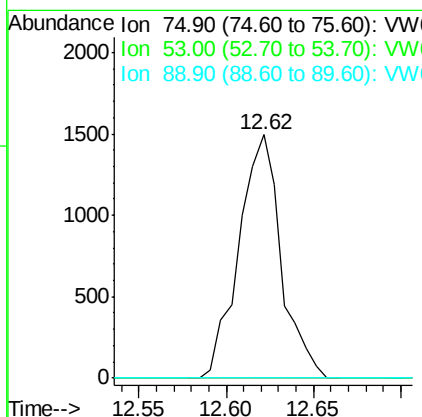
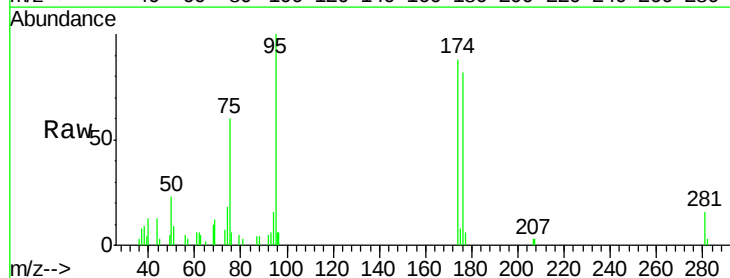
Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200052

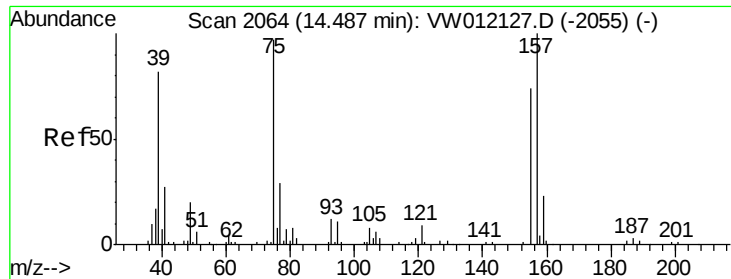
Tot Ion: 75 Resp: 2520
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 195.759 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW012307.D
 Acq: 29 Aug 2019 16:55

Tgt Ion: 75 Resp: 2520
 Ion Ratio Lower Upper
 75 100
 53 0.0 89.4 134.0#
 89 0.0 34.5 51.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.831 ug/l

RT: 14.40 min Scan# 2049

Delta R.T. -0.09 min

Lab File: VW012307.D

Acq: 29 Aug 2019 16:55

Instrument :

MSVOA_W

ClientSampleId :

RBR-200052

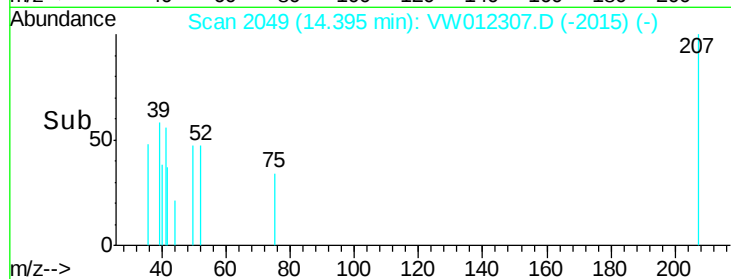
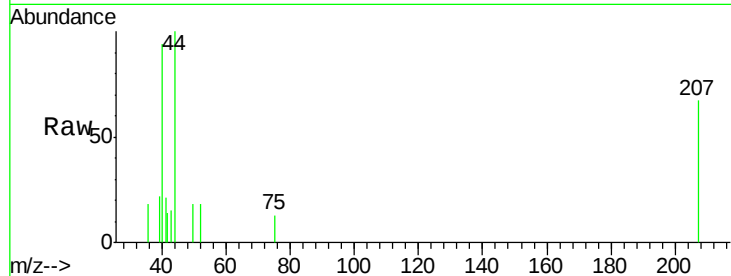
Tot Ion: 75 Resp: 19

Ion Ratio Lower Upper

75 100

155 0.0 37.5 112.3#

157 0.0 50.5 151.5#



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

