

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081219\
 Data File : VD063495.D
 Acq On : 12 Aug 2019 18:44
 Operator : JC/SY
 Sample : K4294-07
 Misc : 6.04g/5ml/MSVOA D/SOIL
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200052

Quant Time: Aug 13 07:47:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	26507	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	49638	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.36	117	45240	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	18311	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	24775	87.44	ug/l	-0.03
Spiked Amount			Recovery	=	174.88%	
35) Dibromofluoromethane	6.92	113	18883	45.17	ug/l	-0.02
Spiked Amount			Recovery	=	90.34%	
50) Toluene-d8	10.40	98	32937	35.84	ug/l	-0.02
Spiked Amount			Recovery	=	71.68%	
62) 4-Bromofluorobenzene	13.55	95	15620	37.50	ug/l	0.00
Spiked Amount			Recovery	=	75.00%	

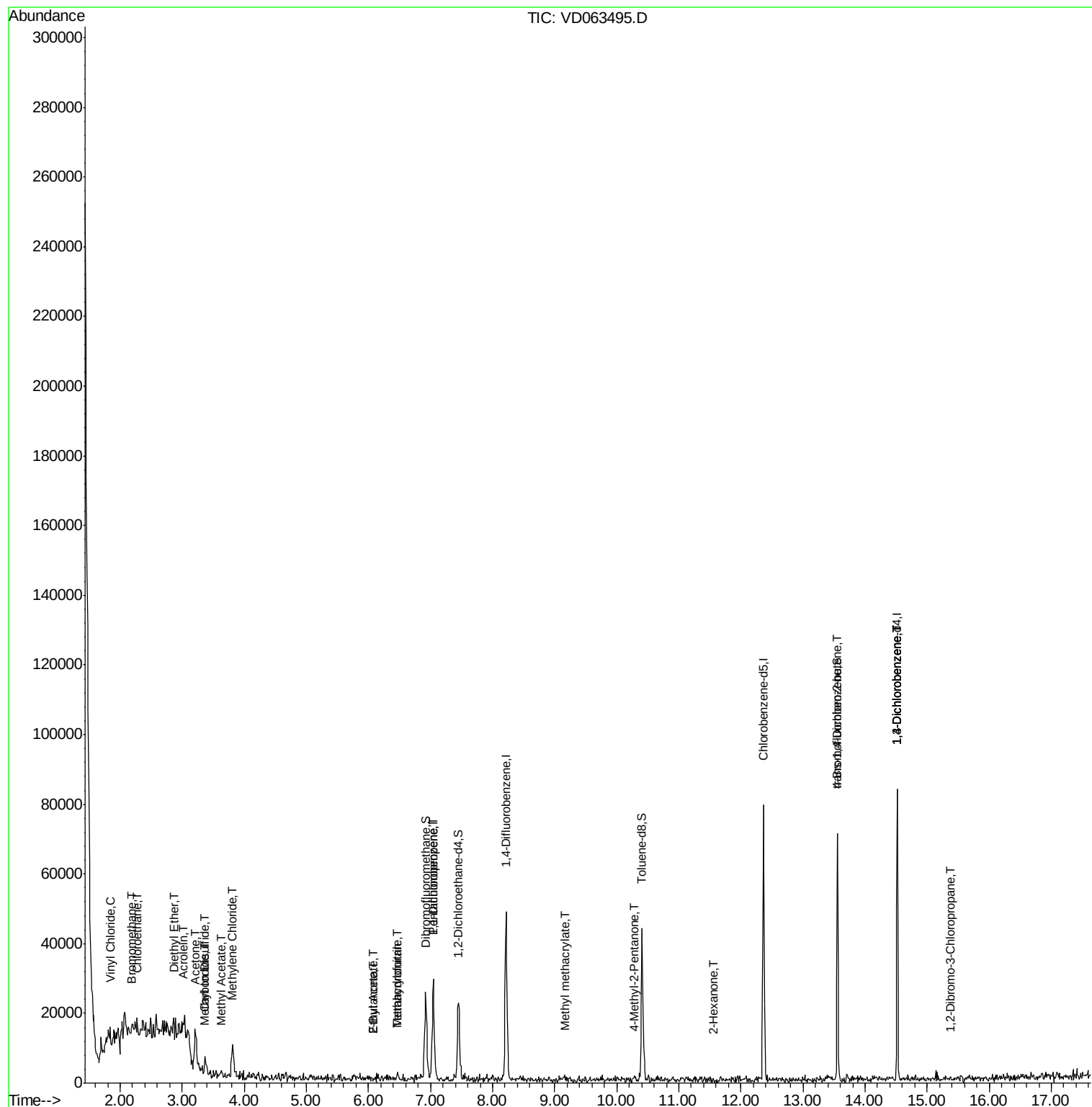
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.84	62	293	1.178	ug/l #	42
5) Bromomethane	2.17	94	2342	19.955	ug/l #	11
6) Chloroethane	2.26	64	209	1.837	ug/l #	42
8) Diethyl Ether	2.85	74	490	7.113	ug/l	61
10) Methyl Iodide	3.35	142	691	1.695	ug/l #	29
13) Acrolein	3.01	56	595	49.008	ug/l #	44
16) Acetone	3.21	43	25629	444.969	ug/l #	91
17) Carbon Disulfide	3.37	76	5113	7.564	ug/l #	75
18) Methyl Acetate	3.62	43	326	2.988	ug/l #	57
20) Methylene Chloride	3.82	84	5575	22.384	ug/l #	75
25) 2-Butanone	6.08	43	445	7.823	ug/l #	58
29) Tetrahydrofuran	6.47	42	864	32.595	ug/l #	52
36) 1,1-Dichloropropene	7.04	75	2085	4.751	ug/l #	42
37) Ethyl Acetate	6.08	43	445	2.420	ug/l #	73
41) Methacrylonitrile	6.46	41	838	3.620	ug/l #	37
48) Methyl methacrylate	9.15	41	209	1.251	ug/l #	18
51) 4-Methyl-2-Pentanone	10.28	43	238	1.412	ug/l #	40
59) 2-Hexanone	11.57	43	272	2.218	ug/l #	30
81) trans-1,4-Dichloro-2-buten	13.55	75	8024	142.061	ug/l #	1
87) 1,3-Dichlorobenzene	14.53	146	587	1.020	ug/l #	44
88) 1,4-Dichlorobenzene	14.53	146	587	1.063	ug/l #	45
92) 1,2-Dibromo-3-Chloropropan	15.37	75	180	4.945	ug/l #	1

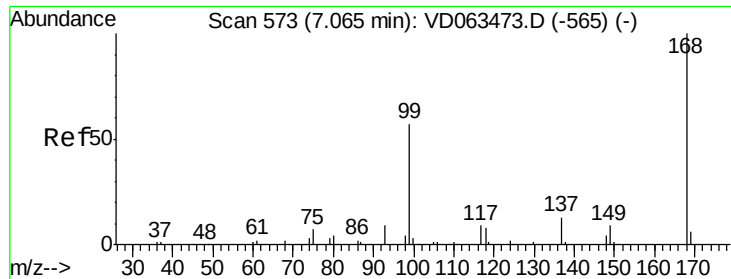
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.02 min

Lab File: VD063495.D

Acq: 12 Aug 2019 18:44

Instrument :

MSVOA_D

ClientSampleId :

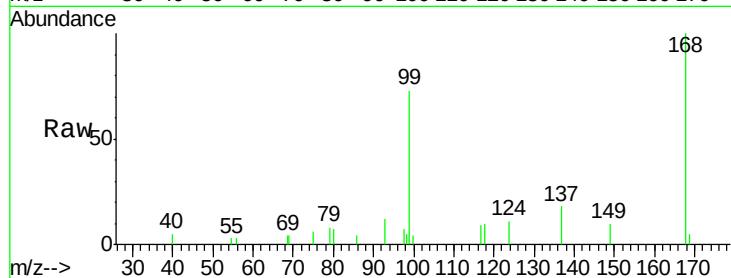
RBR-200052

Tot Ion:168 Resp: 26507

Ion Ratio Lower Upper

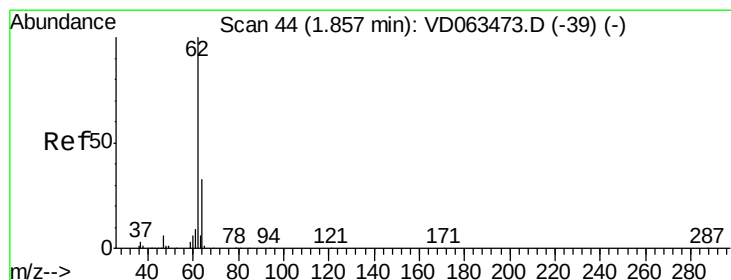
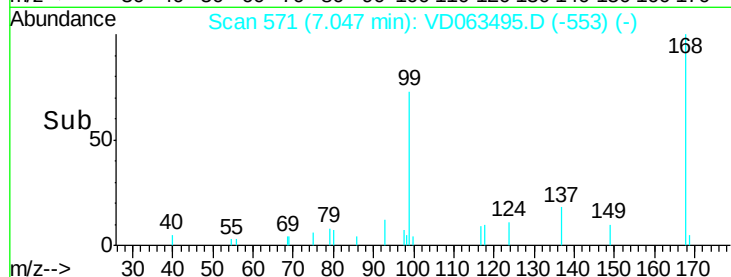
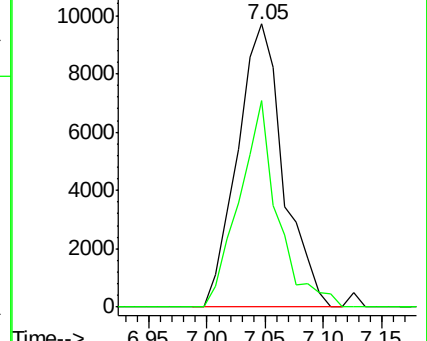
168 100

99 72.8 46.7 70.1#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#4

Vinyl Chloride

Concen: 1.178 ug/l

RT: 1.84 min Scan# 42

Delta R.T. -0.02 min

Lab File: VD063495.D

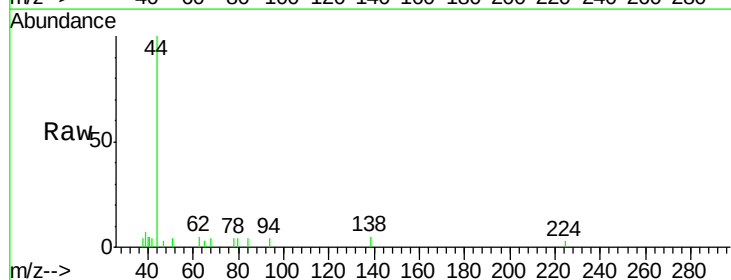
Acq: 12 Aug 2019 18:44

Tgt Ion: 62 Resp: 293

Ion Ratio Lower Upper

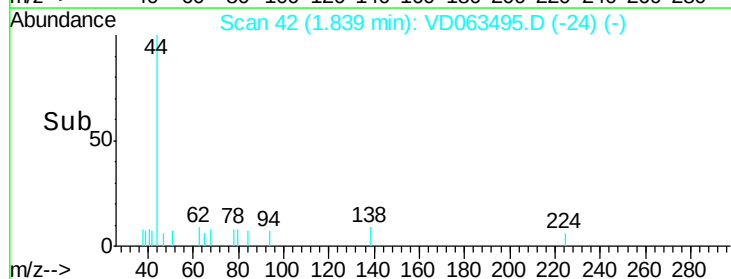
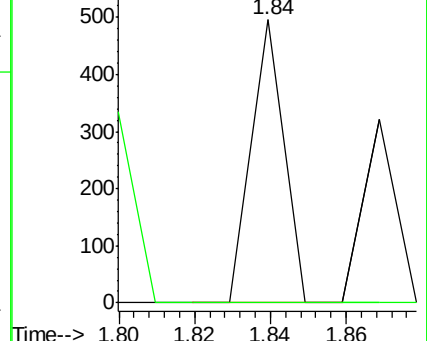
62 100

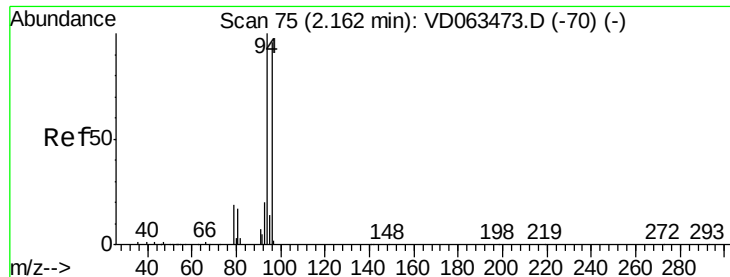
64 0.0 26.4 39.6#



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 19.955 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.01 min

Lab File: VD063495.D

Acq: 12 Aug 2019 18:44

Instrument :

MSVOA_D

ClientSampleId :

RBR-200052

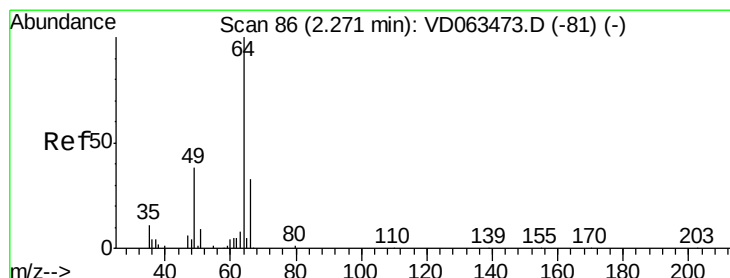
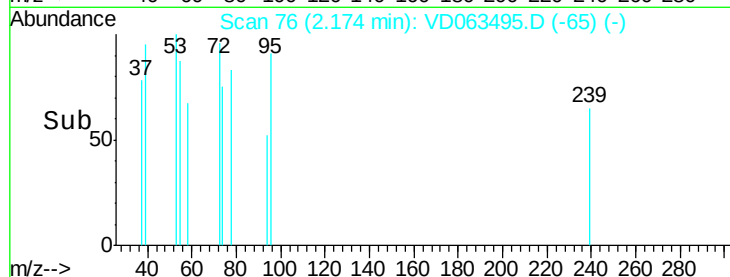
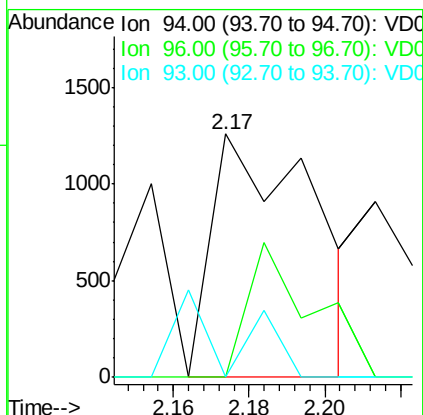
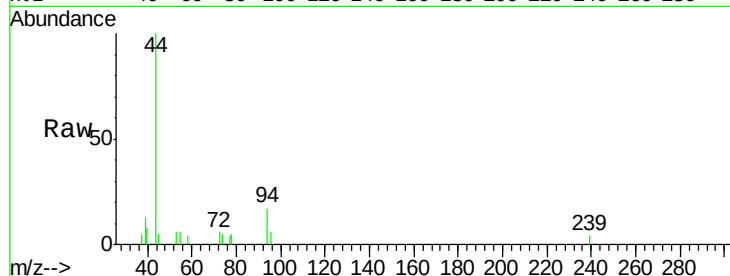
Tot Ion: 94 Resp: 2342

Ion Ratio Lower Upper

94 100

96 0.0 76.5 114.7#

93 0.0 15.8 23.8#



#6

Chloroethane

Concen: 1.837 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.01 min

Lab File: VD063495.D

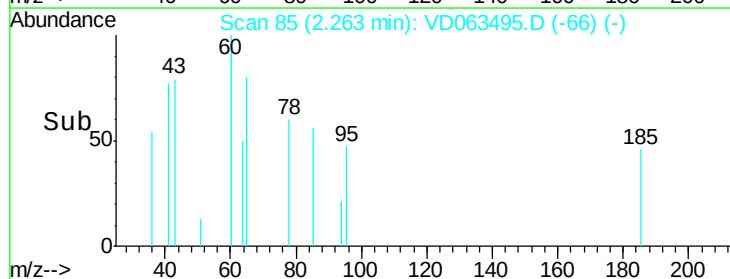
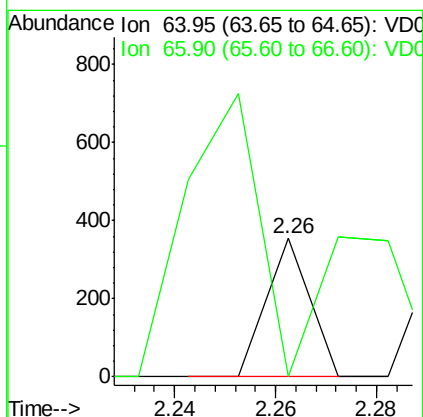
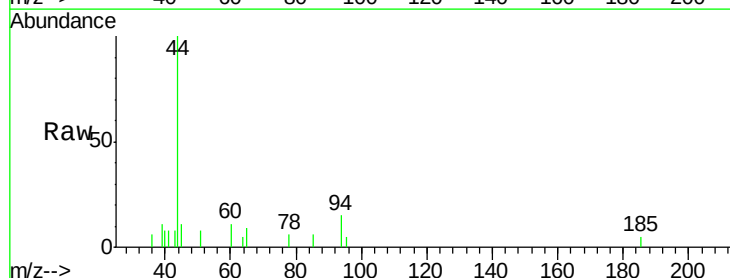
Acq: 12 Aug 2019 18:44

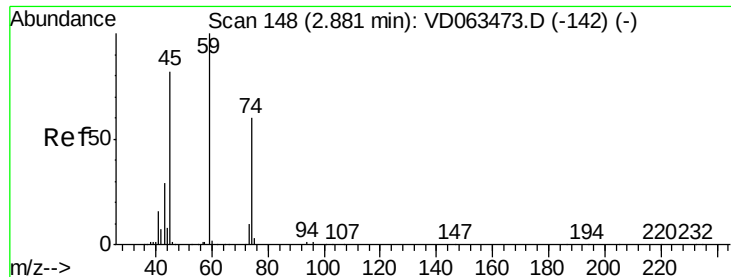
Tgt Ion: 64 Resp: 209

Ion Ratio Lower Upper

64 100

66 0.0 26.3 39.5#





#8

Diethyl Ether

Concen: 7.113 ug/l

RT: 2.85 min Scan# 145

Delta R.T. -0.03 min

Lab File: VD063495.D

Acq: 12 Aug 2019 18:44

Instrument :

MSVOA_D

ClientSampleId :

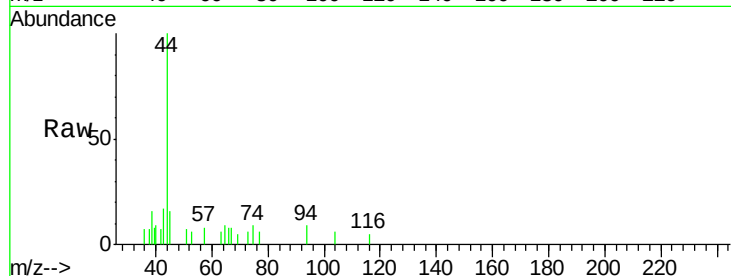
RBR-200052

Tot Ion: 74 Resp: 490

Ion Ratio Lower Upper

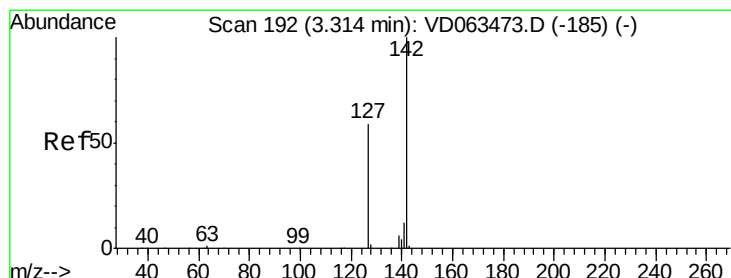
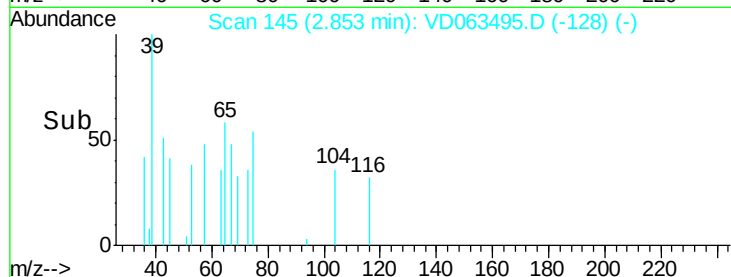
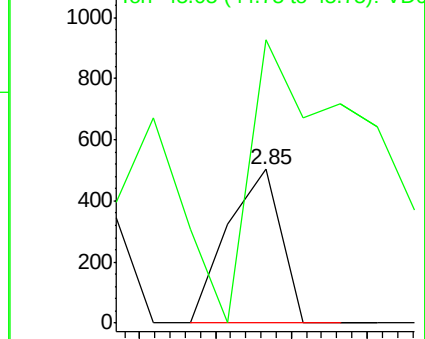
74 100

45 184.3 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#10

Methyl Iodide

Concen: 1.695 ug/l

RT: 3.35 min Scan# 195

Delta R.T. 0.03 min

Lab File: VD063495.D

Acq: 12 Aug 2019 18:44

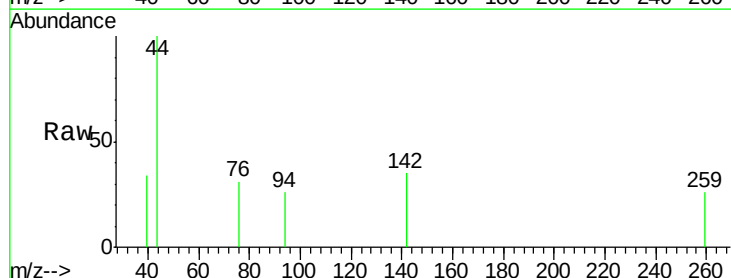
Tgt Ion: 142 Resp: 691

Ion Ratio Lower Upper

142 100

127 0.0 47.2 70.8#

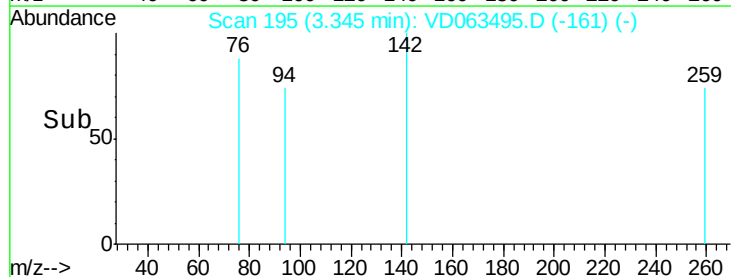
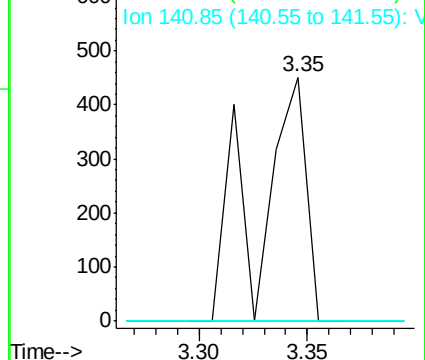
141 0.0 9.8 14.8#

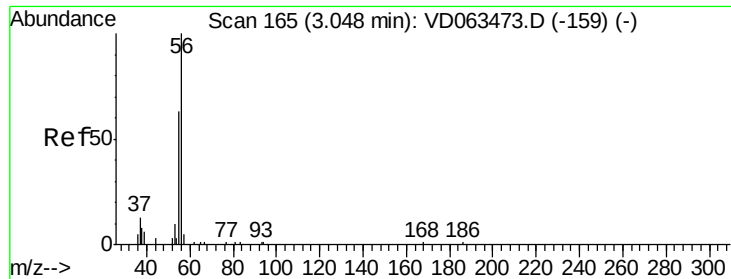


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#13

Acrolein

Concen: 49.008 ug/l

RT: 3.01 min Scan# 161

Delta R.T. -0.04 min

Lab File: VD063495.D

Acq: 12 Aug 2019 18:44

Instrument :

MSVOA_D

ClientSampleId :

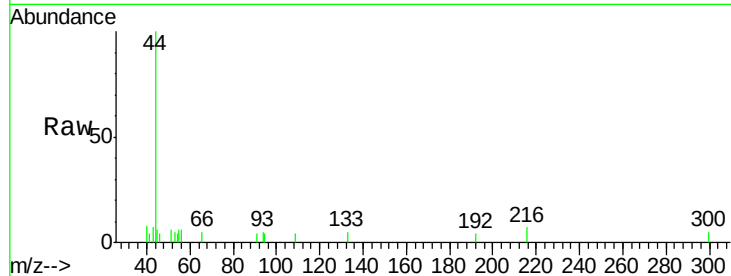
RBR-200052

Tot Ion: 56 Resp: 595

Ion Ratio Lower Upper

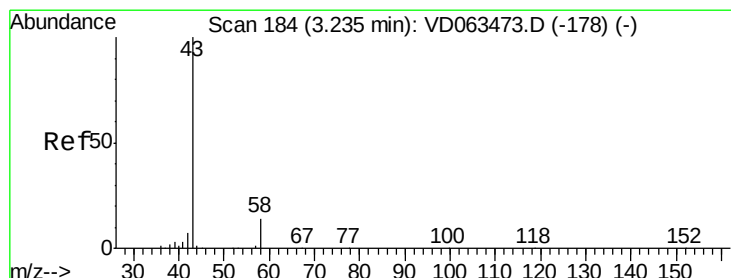
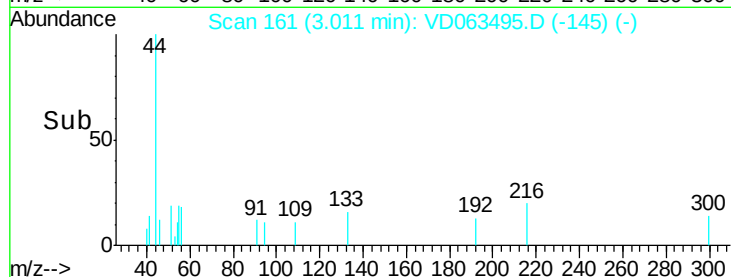
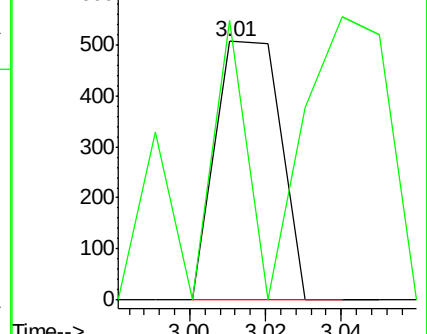
56 100

55 108.3 51.3 76.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 444.969 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.03 min

Lab File: VD063495.D

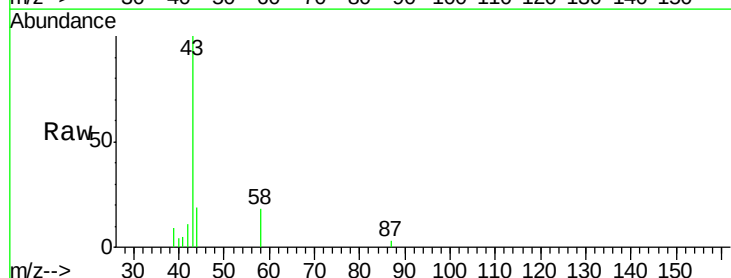
Acq: 12 Aug 2019 18:44

Tgt Ion: 43 Resp: 25629

Ion Ratio Lower Upper

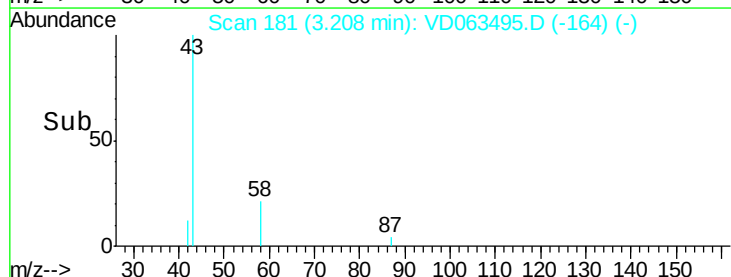
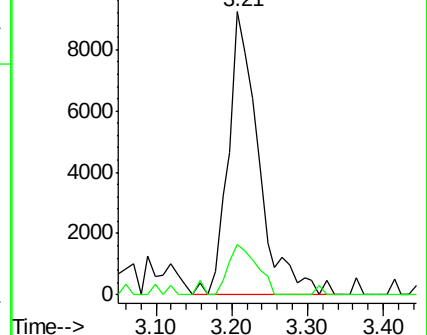
43 100

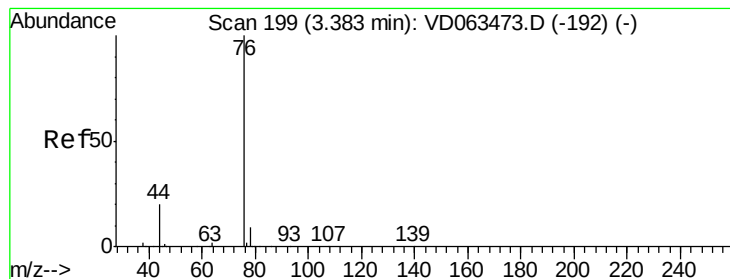
58 18.0 11.4 17.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 7.564 ug/l

RT: 3.37 min Scan# 197

Delta R.T. -0.02 min

Lab File: VD063495.D

Acq: 12 Aug 2019 18:44

Instrument :

MSVOA_D

ClientSampleId :

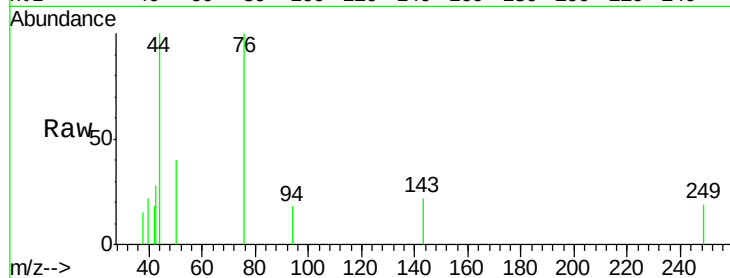
RBR-200052

Tot Ion: 76 Resp: 5113

Ion Ratio Lower Upper

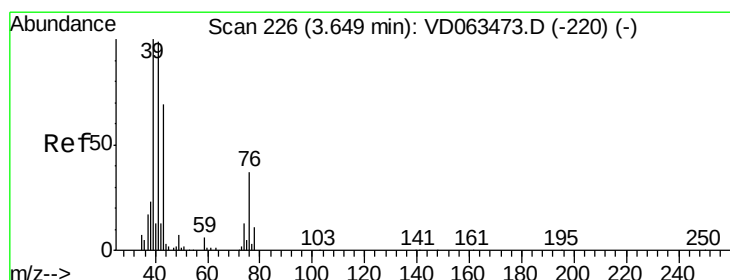
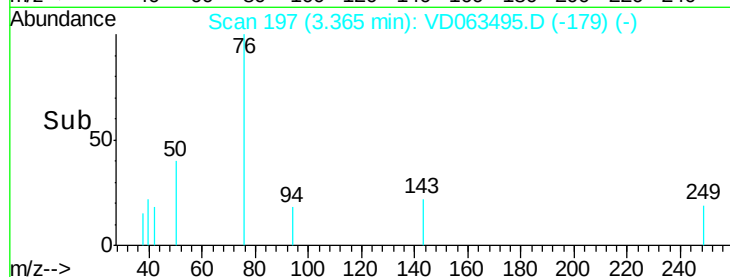
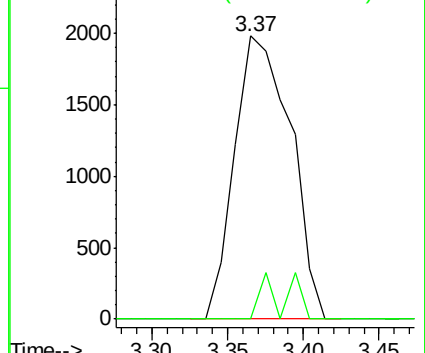
76 100

78 0.0 7.4 11.0#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 2.988 ug/l

RT: 3.62 min Scan# 223

Delta R.T. -0.03 min

Lab File: VD063495.D

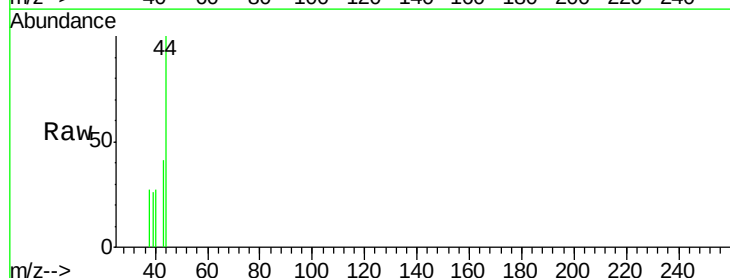
Acq: 12 Aug 2019 18:44

Tgt Ion: 43 Resp: 326

Ion Ratio Lower Upper

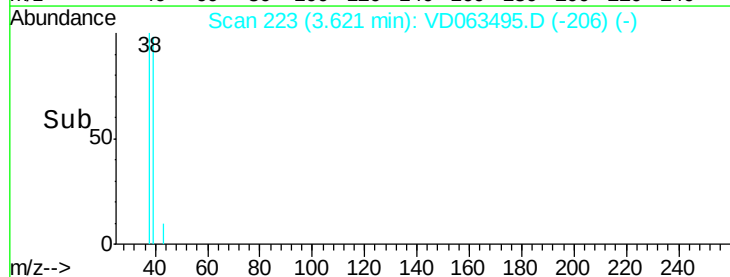
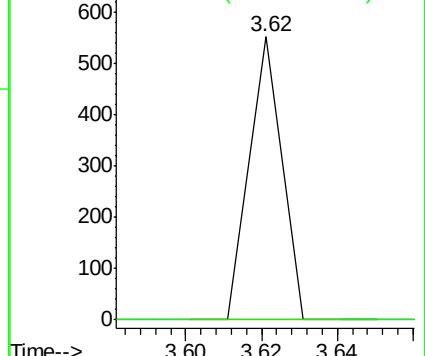
43 100

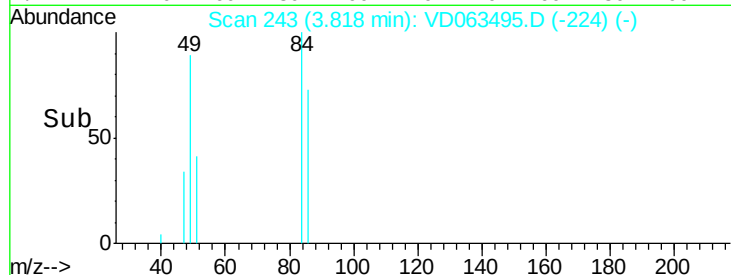
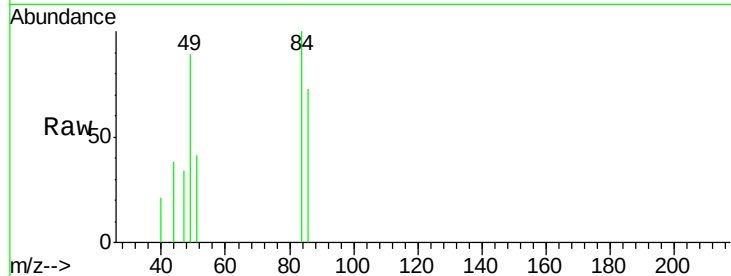
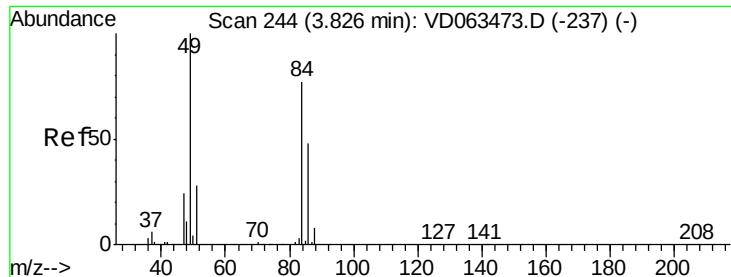
74 0.0 15.4 23.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

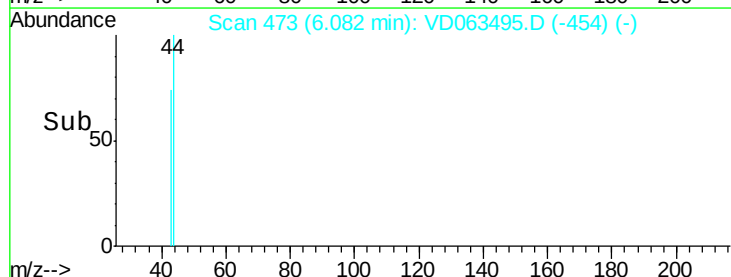
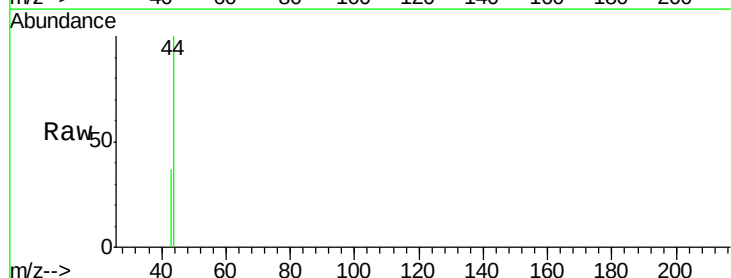
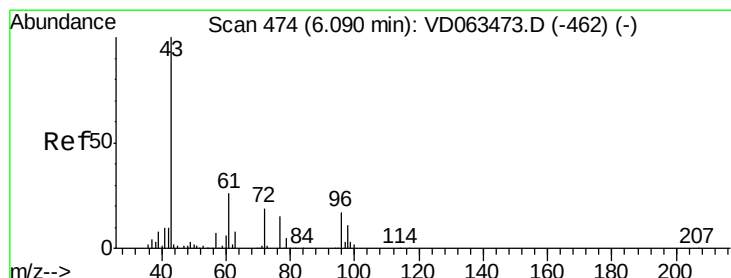
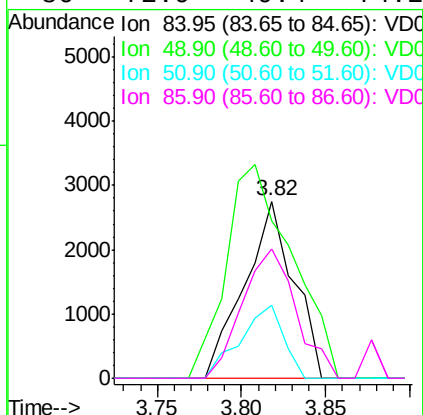




#20
Methylene Chloride
Concen: 22.384 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD063495.D
Acq: 12 Aug 2019 18:44

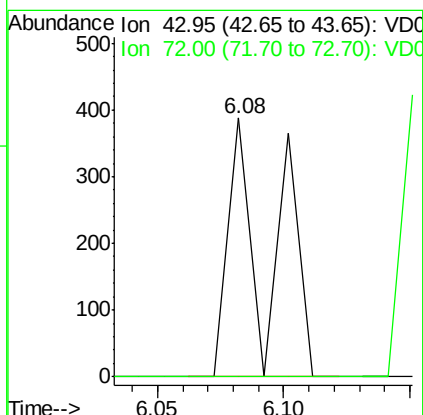
Instrument :
MSVOA_D
ClientSampleId :
RBR-200052

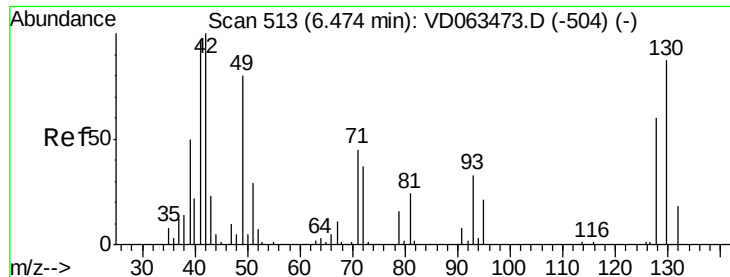
Tot Ion:	84	Resp:	5575
Ion	Ratio	Lower	Upper
84	100		
49	88.8	103.4	155.2#
51	41.4	28.5	42.7
86	72.9	49.4	74.2



#25
2-Butanone
Concen: 7.823 ug/l
RT: 6.08 min Scan# 473
Delta R.T. -0.01 min
Lab File: VD063495.D
Acq: 12 Aug 2019 18:44

Tgt Ion:	43	Resp:	445
Ion	Ratio	Lower	Upper
43	100		
72	0.0	15.1	22.7#





#29

Tetrahydrofuran

Concen: 32.595 ug/l

RT: 6.47 min Scan# 512

Delta R.T. -0.01 min

Lab File: VD063495.D

Acq: 12 Aug 2019 18:44

Instrument :

MSVOA_D

ClientSampleId :

RBR-200052

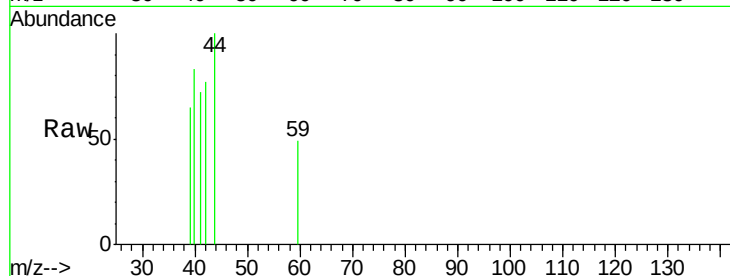
Tot Ion: 42 Resp: 864

Ion Ratio Lower Upper

42 100

72 21.8 31.5 47.3#

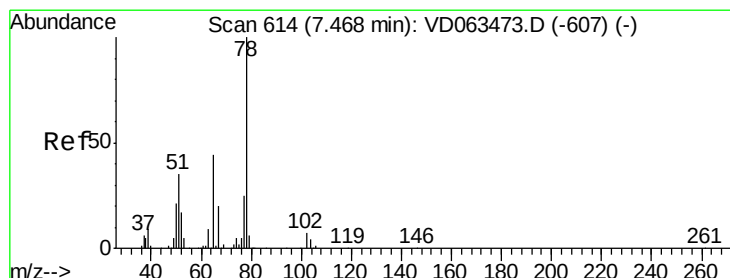
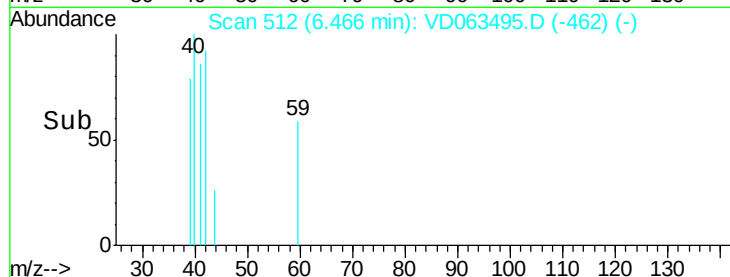
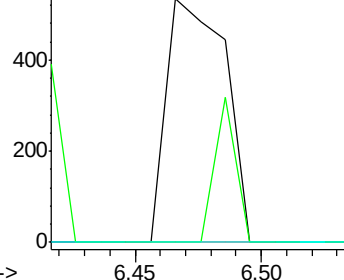
71 0.0 33.8 50.8#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 87.439 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.03 min

Lab File: VD063495.D

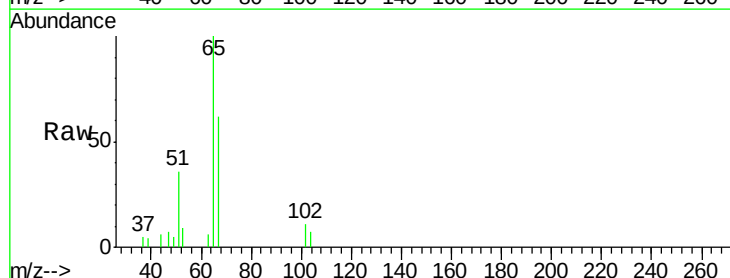
Acq: 12 Aug 2019 18:44

Tgt Ion: 65 Resp: 24775

Ion Ratio Lower Upper

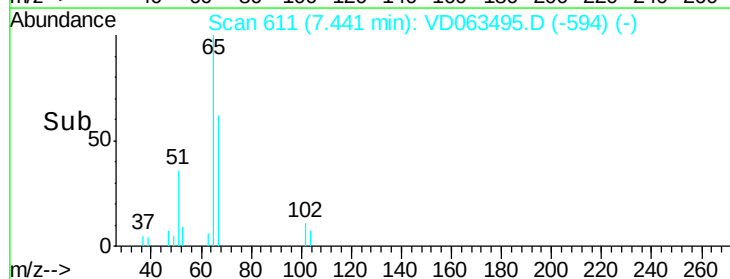
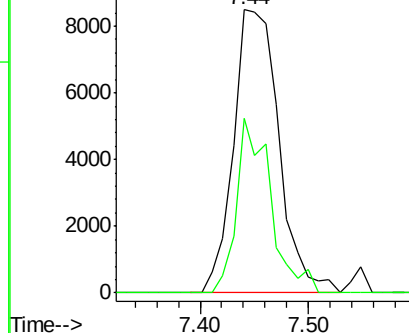
65 100

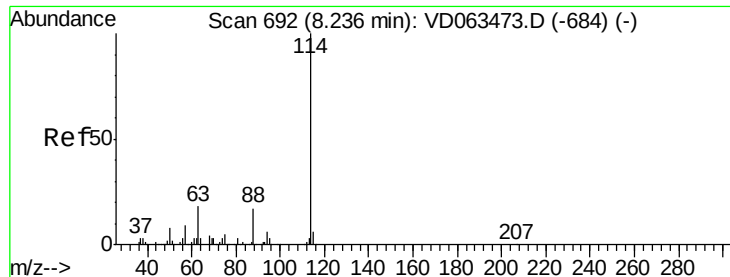
67 61.5 0.0 89.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.02 min

Lab File: VD063495.D

Acq: 12 Aug 2019 18:44

Instrument :

MSVOA_D

ClientSampleId :

RBR-200052

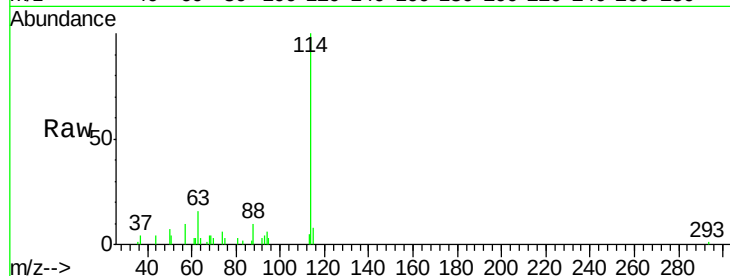
Tot Ion:114 Resp: 49638

Ion Ratio Lower Upper

114 100

63 15.7 0.0 36.2

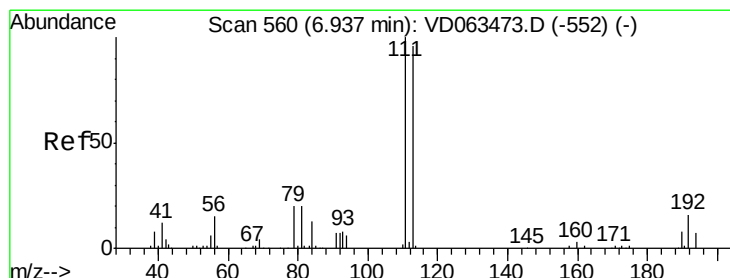
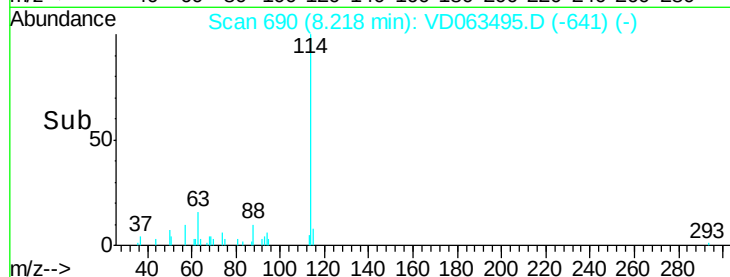
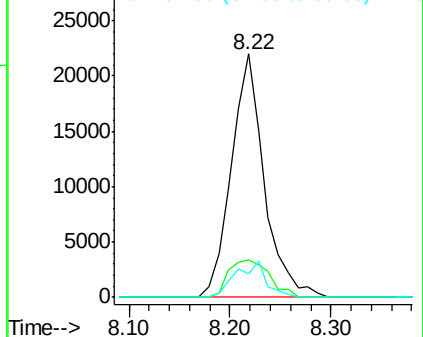
88 9.6 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC



#35

Dibromofluoromethane

Concen: 45.169 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD063495.D

Acq: 12 Aug 2019 18:44

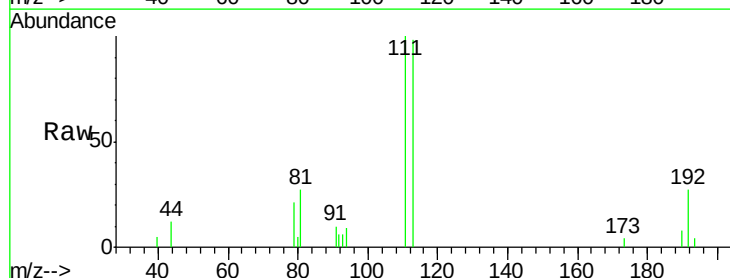
Tgt Ion:113 Resp: 18883

Ion Ratio Lower Upper

113 100

111 101.7 83.1 124.7

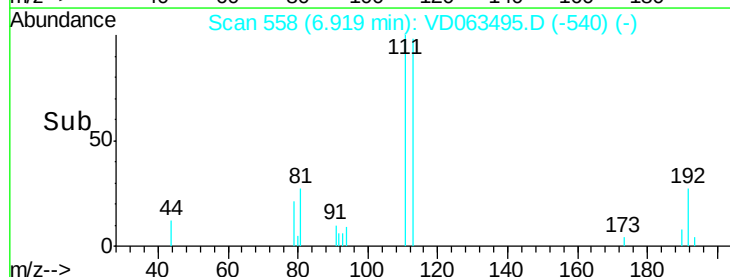
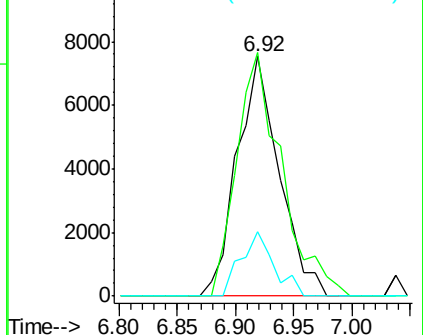
192 27.0 13.1 19.7#

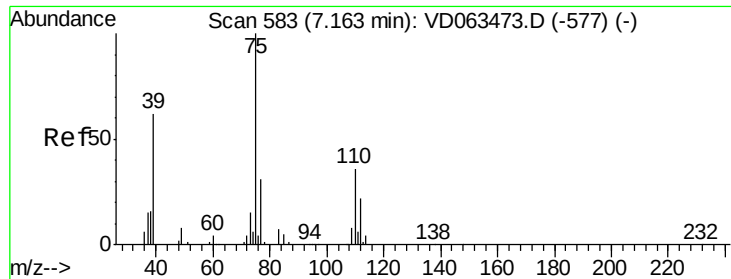


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

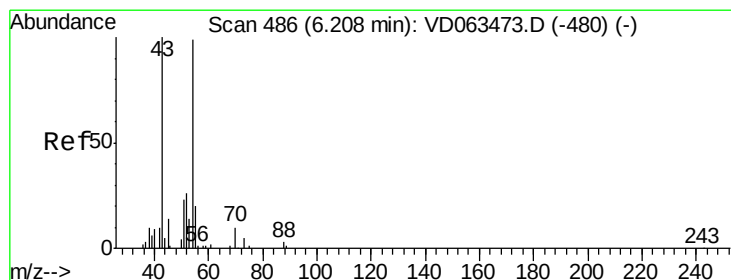
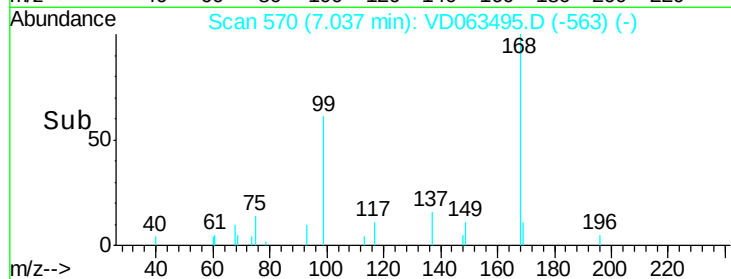
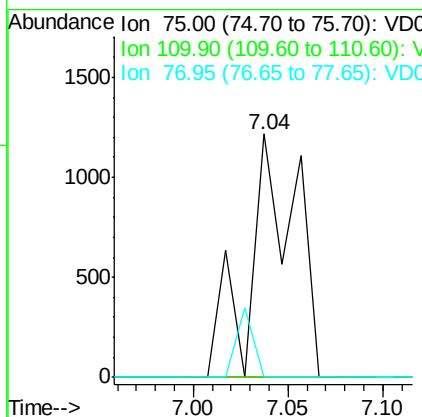
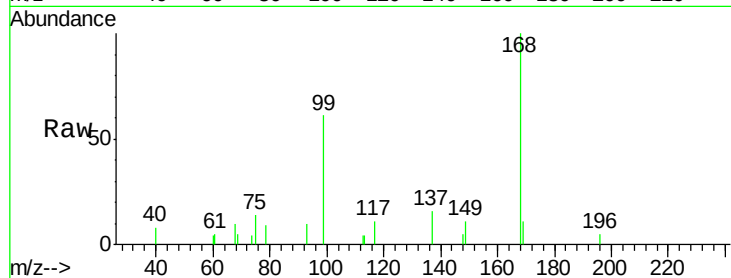




#36
 1,1-Dichloropropene
 Concen: 4.751 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.13 min
 Lab File: VD063495.D
 Acq: 12 Aug 2019 18:44

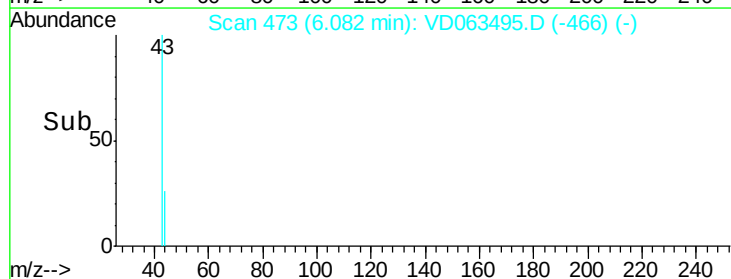
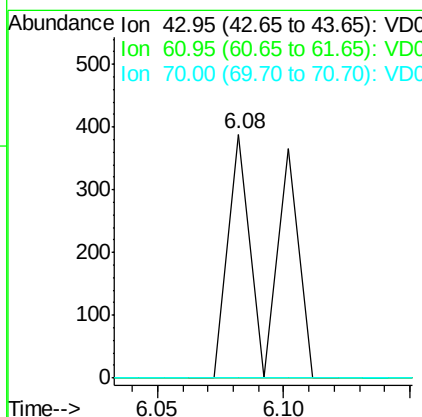
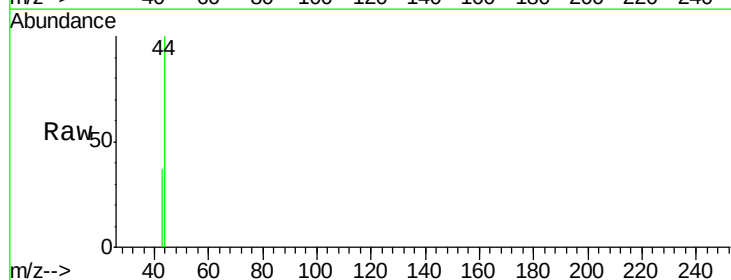
Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200052

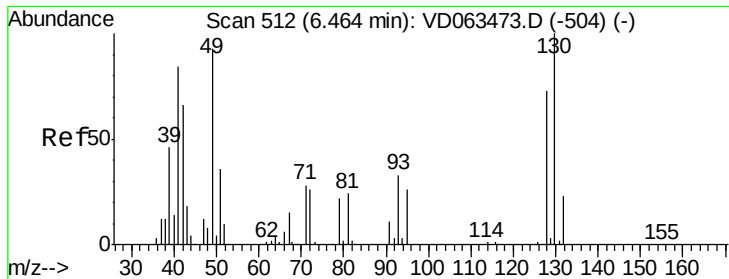
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.6	52.8#
77	0.0	24.3	36.5#



#37
 Ethyl Acetate
 Concen: 2.420 ug/l
 RT: 6.08 min Scan# 473
 Delta R.T. -0.13 min
 Lab File: VD063495.D
 Acq: 12 Aug 2019 18:44

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.0	13.6#
70	0.0	6.9	10.3#





#41

Methacrylonitrile

Concen: 3.620 ug/l

RT: 6.46 min Scan# 511

Delta R.T. -0.01 min

Lab File: VD063495.D

Acq: 12 Aug 2019 18:44

Instrument :

MSVOA_D

ClientSampleId :

RBR-200052

Tot Ion: 41 Resp: 838

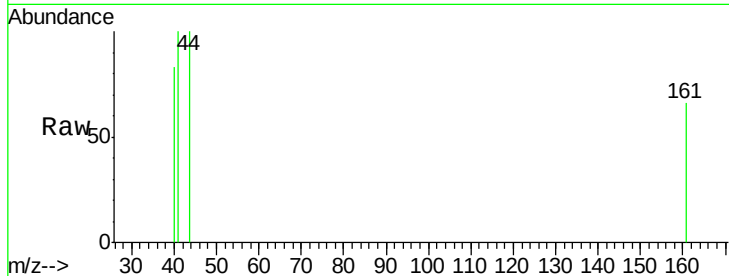
Ion Ratio Lower Upper

41 100

39 0.0 44.6 66.8#

67 0.0 14.4 21.6#

52 0.0 9.3 13.9#

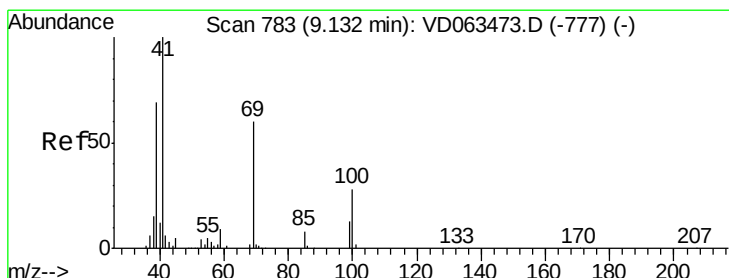
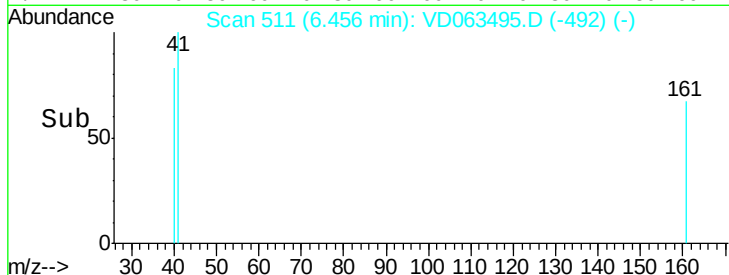
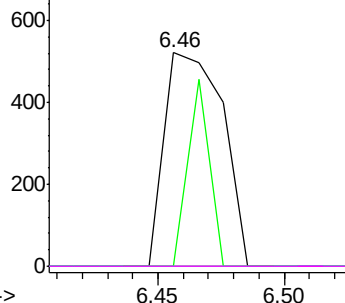


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#48

Methyl methacrylate

Concen: 1.251 ug/l

RT: 9.15 min Scan# 785

Delta R.T. 0.02 min

Lab File: VD063495.D

Acq: 12 Aug 2019 18:44

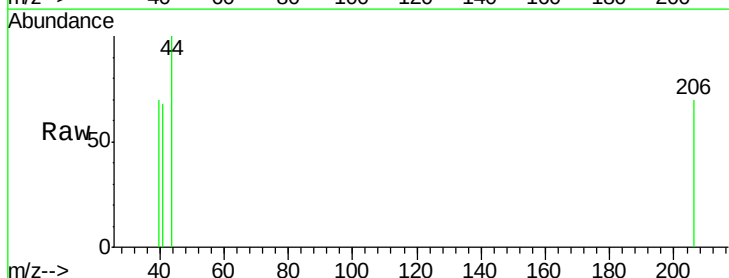
Tgt Ion: 41 Resp: 209

Ion Ratio Lower Upper

41 100

69 0.0 47.6 71.4#

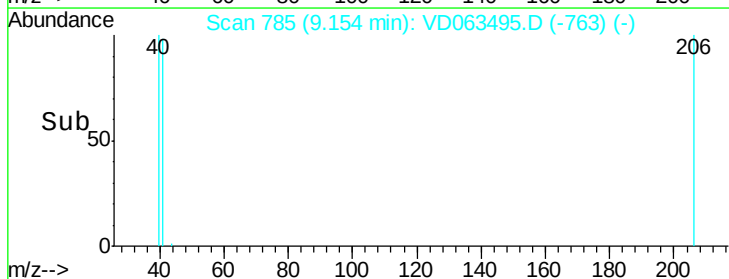
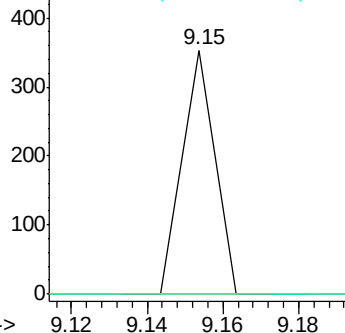
39 0.0 55.7 83.5#

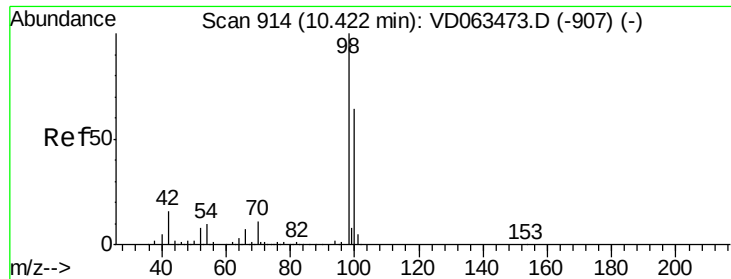


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC

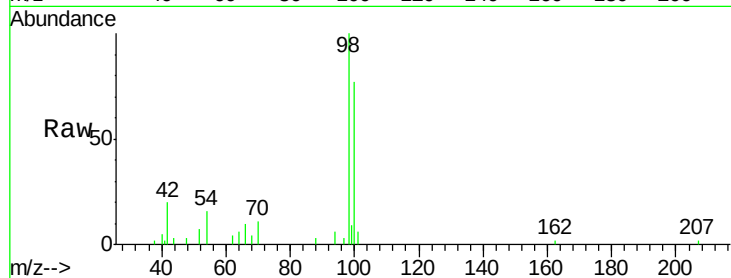




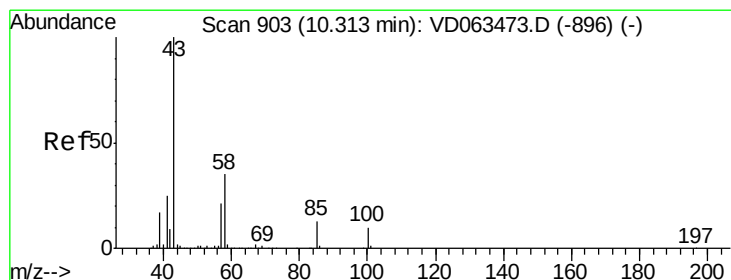
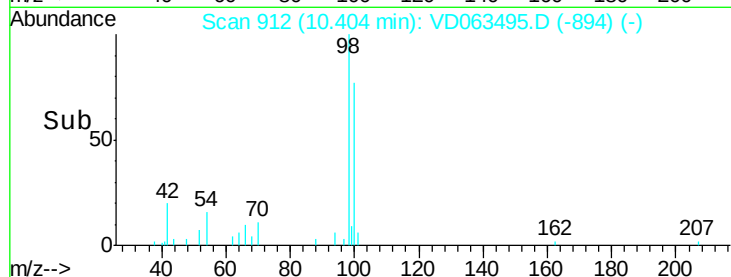
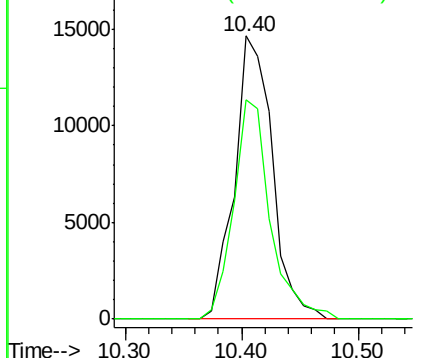
#50
Toluene-d8
Concen: 35.836 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.02 min
Lab File: VD063495.D
Acq: 12 Aug 2019 18:44

Instrument :
MSVOA_D
ClientSampleId :
RBR-200052

Tot Ion: 98 Resp: 32937
Ion Ratio Lower Upper
98 100
100 77.4 51.7 77.5

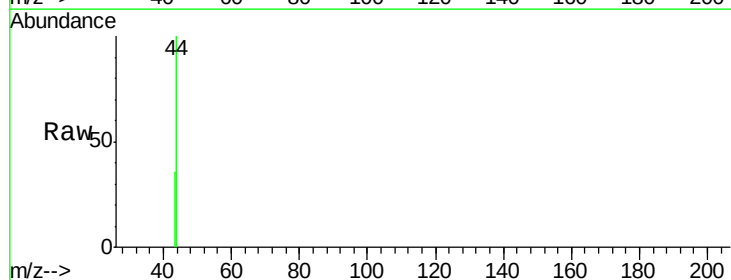


Abundance Ion 98.05 (97.75 to 98.75): VD063473.D (-907) (-)
Ion 100.05 (99.75 to 100.75): VD063473.D (-907) (-)

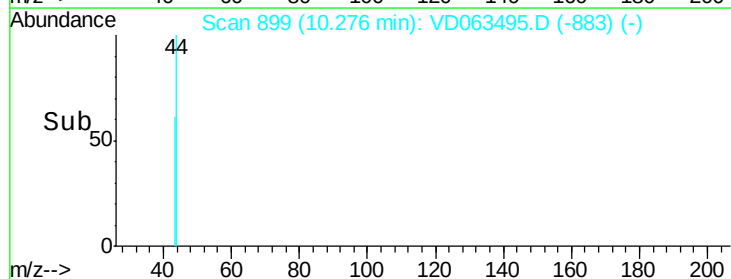
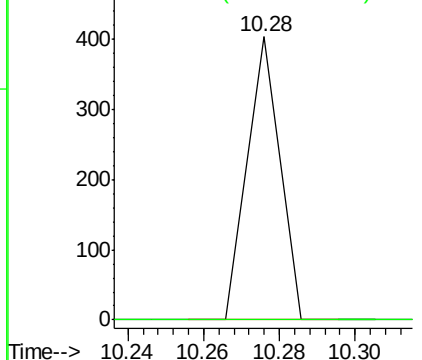


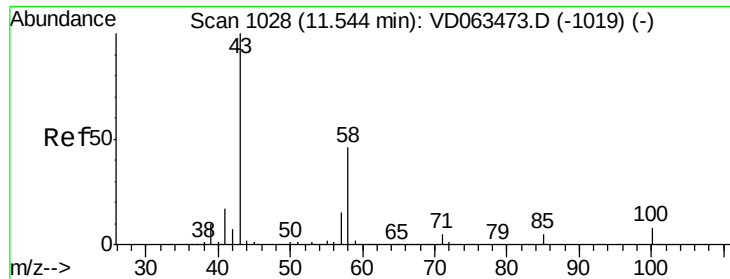
#51
4-Methyl-2-Pentanone
Concen: 1.412 ug/l
RT: 10.28 min Scan# 899
Delta R.T. -0.04 min
Lab File: VD063495.D
Acq: 12 Aug 2019 18:44

Tgt Ion: 43 Resp: 238
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



Abundance Ion 42.95 (42.65 to 43.65): VD063473.D (-896) (-)
Ion 57.95 (57.65 to 58.65): VD063473.D (-896) (-)

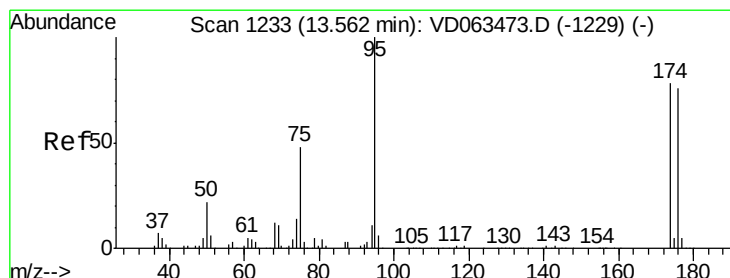
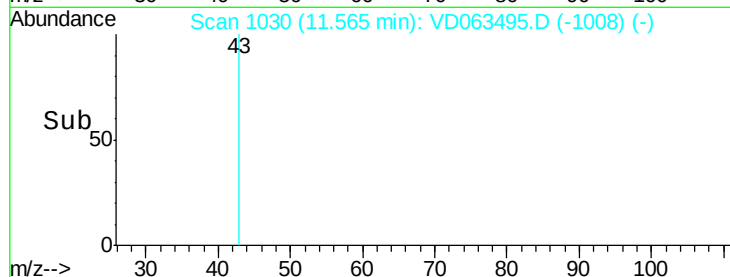
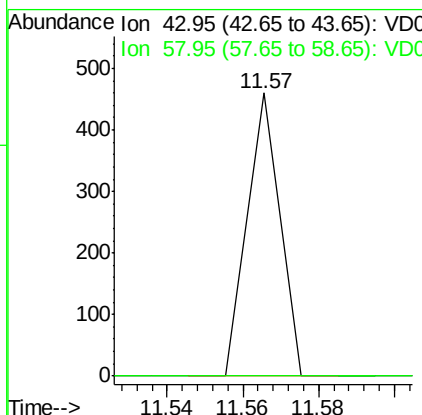
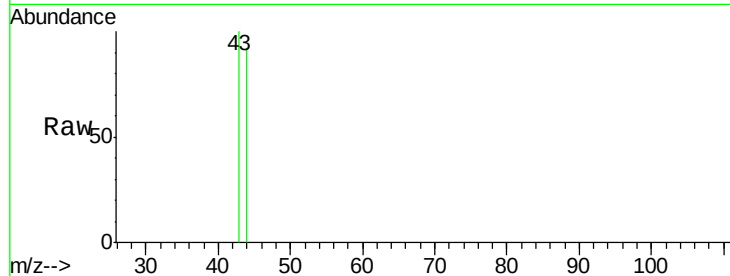




#59
2-Hexanone
Concen: 2.218 ug/l
RT: 11.57 min Scan# 1030
Delta R.T. 0.02 min
Lab File: VD063495.D
Acq: 12 Aug 2019 18:44

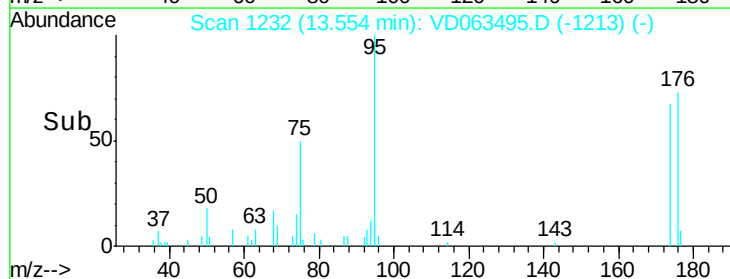
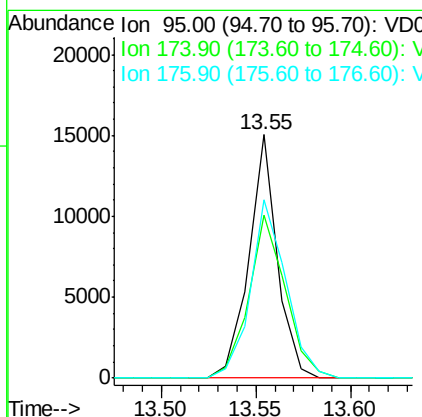
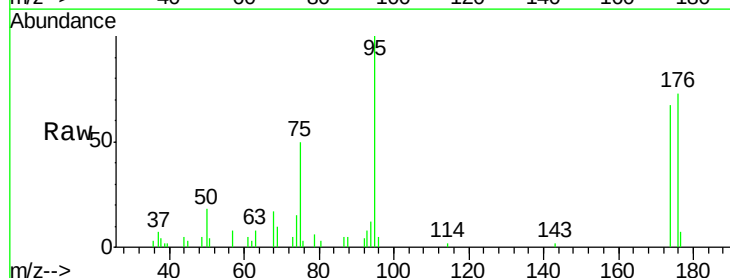
Instrument :
MSVOA_D
ClientSampleId :
RBR-200052

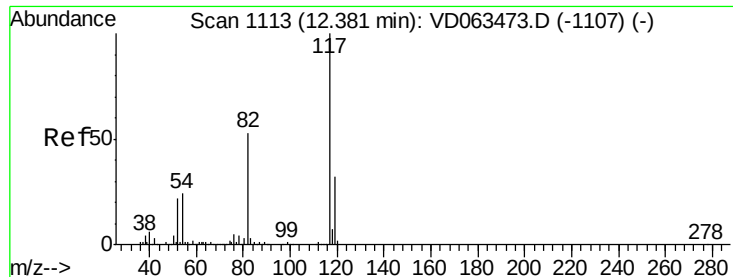
Tot Ion: 43 Resp: 272
Ion Ratio Lower Upper
43 100
58 0.0 23.1 69.2#



#62
4-Bromofluorobenzene
Concen: 37.496 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD063495.D
Acq: 12 Aug 2019 18:44

Tgt Ion: 95 Resp: 15620
Ion Ratio Lower Upper
95 100
174 66.9 0.0 155.4
176 73.4 0.0 152.4

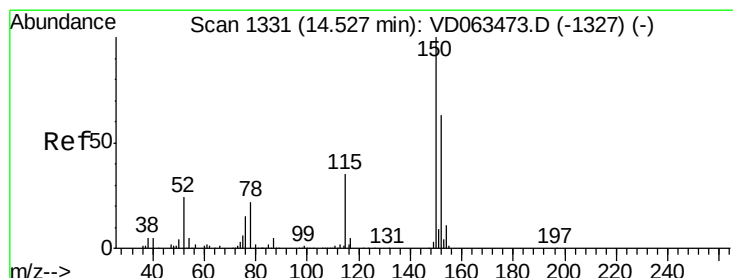
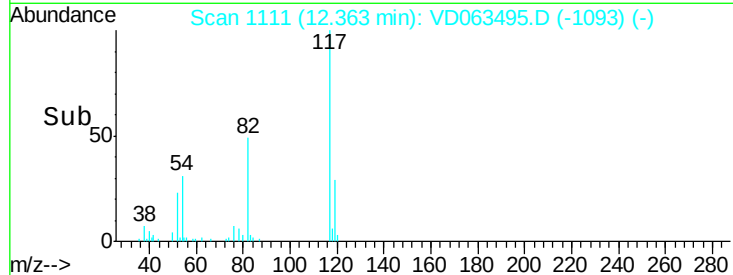
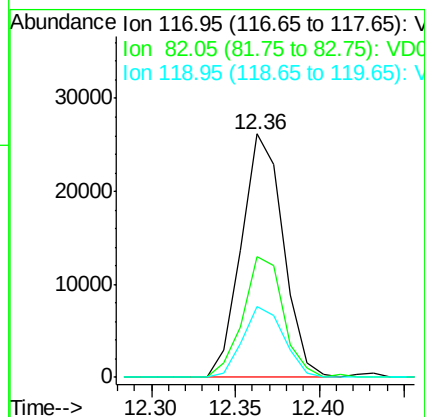
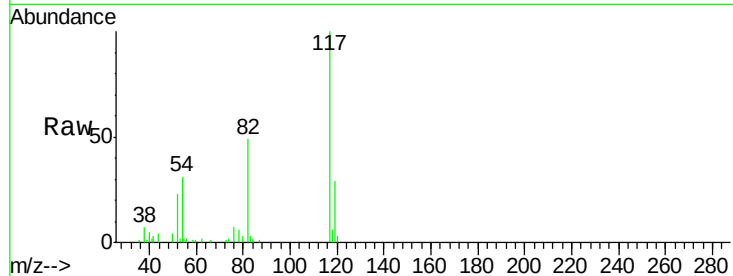




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD063495.D
Acq: 12 Aug 2019 18:44

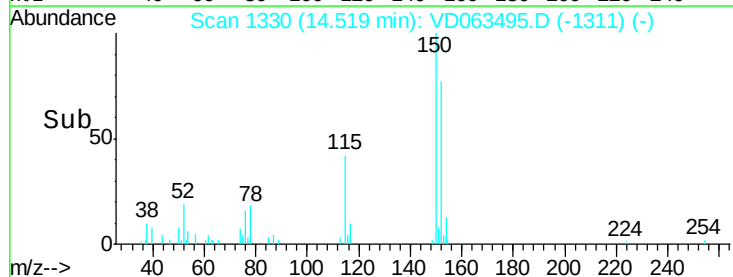
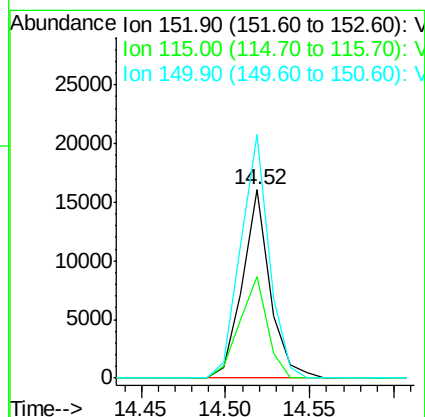
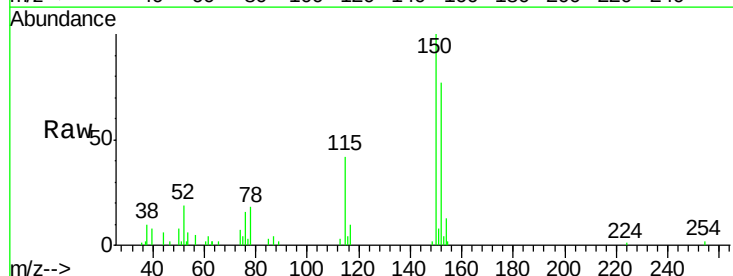
Instrument :
MSVOA_D
ClientSampleId :
RBR-200052

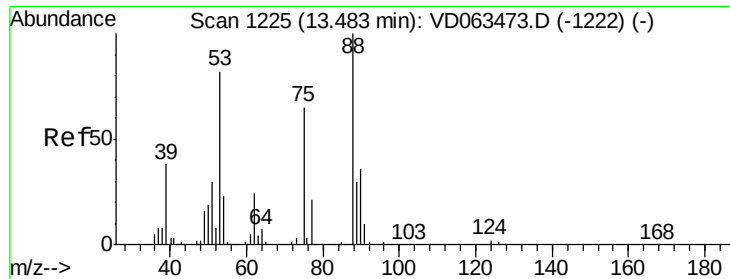
Tot Ion:117 Resp: 45240
Ion Ratio Lower Upper
117 100
82 49.5 42.0 63.0
119 29.3 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD063495.D
Acq: 12 Aug 2019 18:44

Tgt Ion:152 Resp: 18311
Ion Ratio Lower Upper
152 100
115 54.0 30.9 92.7
150 129.2 0.0 318.6





#81

trans-1,4-Dichloro-2-butene

Concen: 142.061 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063495.D

Acq: 12 Aug 2019 18:44

Instrument :

MSVOA_D

ClientSampleId :

RBR-200052

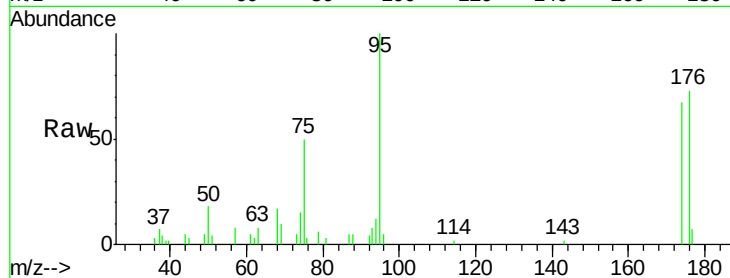
Tot Ion: 75 Resp: 8024

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

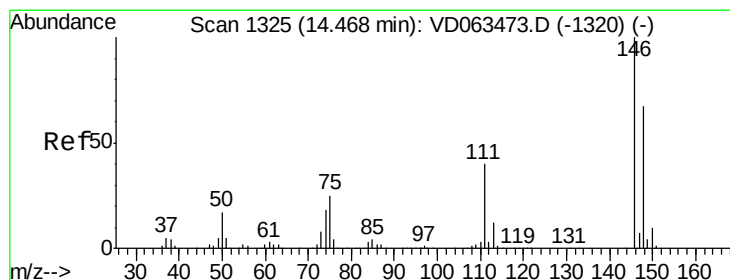
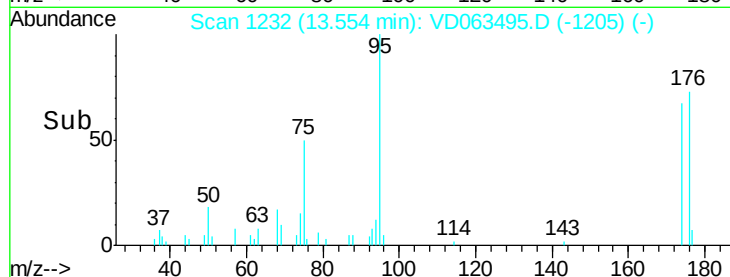
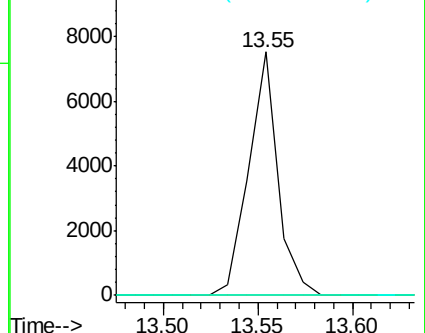
89 0.0 37.0 55.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#87

1,3-Dichlorobenzene

Concen: 1.020 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. 0.06 min

Lab File: VD063495.D

Acq: 12 Aug 2019 18:44

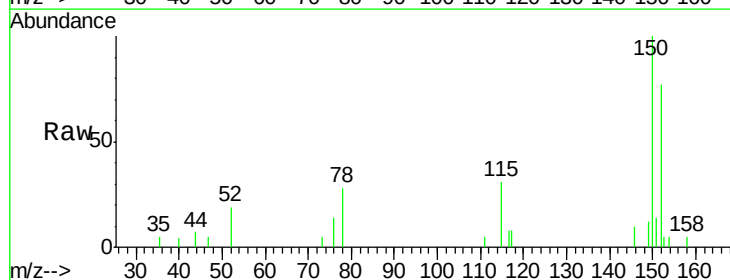
Tgt Ion: 146 Resp: 587

Ion Ratio Lower Upper

146 100

111 45.6 20.0 60.0

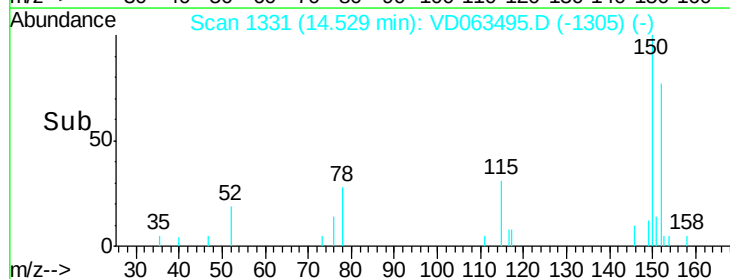
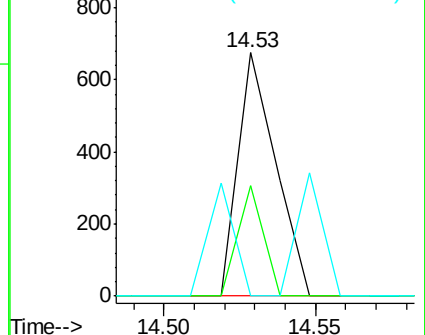
148 0.0 33.6 100.6#

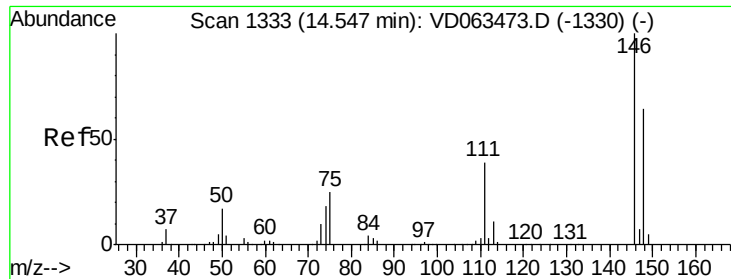


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

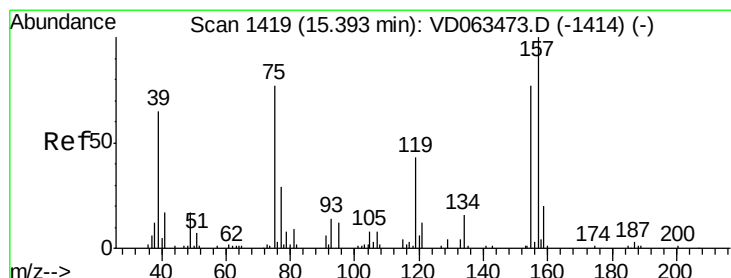
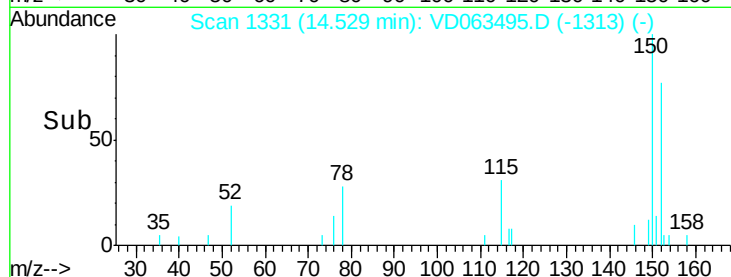
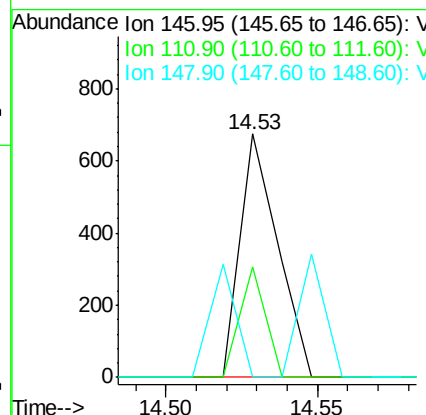
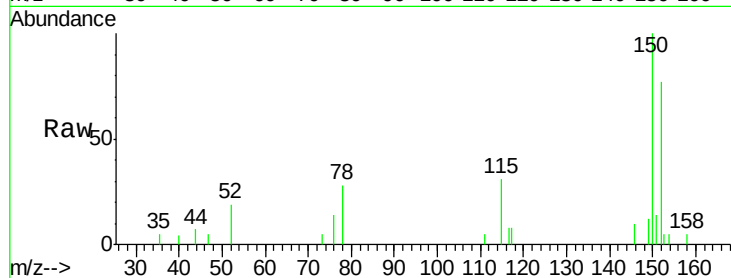




#88
 1,4-Dichlorobenzene
 Concen: 1.063 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. -0.02 min
 Lab File: VD063495.D
 Acq: 12 Aug 2019 18:44

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200052

Tot Ion:146 Resp: 587
 Ion Ratio Lower Upper
 146 100
 111 45.6 19.7 59.0
 148 0.0 32.1 96.3#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.945 ug/l
 RT: 15.37 min Scan# 1416
 Delta R.T. -0.03 min
 Lab File: VD063495.D
 Acq: 12 Aug 2019 18:44

Tgt Ion: 75 Resp: 180
 Ion Ratio Lower Upper
 75 100
 155 0.0 50.1 150.3#
 157 0.0 65.0 195.1#

