

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD053119\
 Data File : VD062575.D
 Acq On : 31 May 2019 20:25
 Operator : VA/AP
 Sample : K3104-10RE
 Misc : 6.64g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-251-688RE

Quant Time: May 31 23:29:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 02:08:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	7482	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	10312	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.38	117	7473	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	2652	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	6093	69.45	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	138.90%	
35) Dibromofluoromethane	6.94	113	2690	28.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	57.26%	
50) Toluene-d8	10.43	98	5698	27.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	55.36%	
62) 4-Bromofluorobenzene	13.57	95	2511	27.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	54.08%	

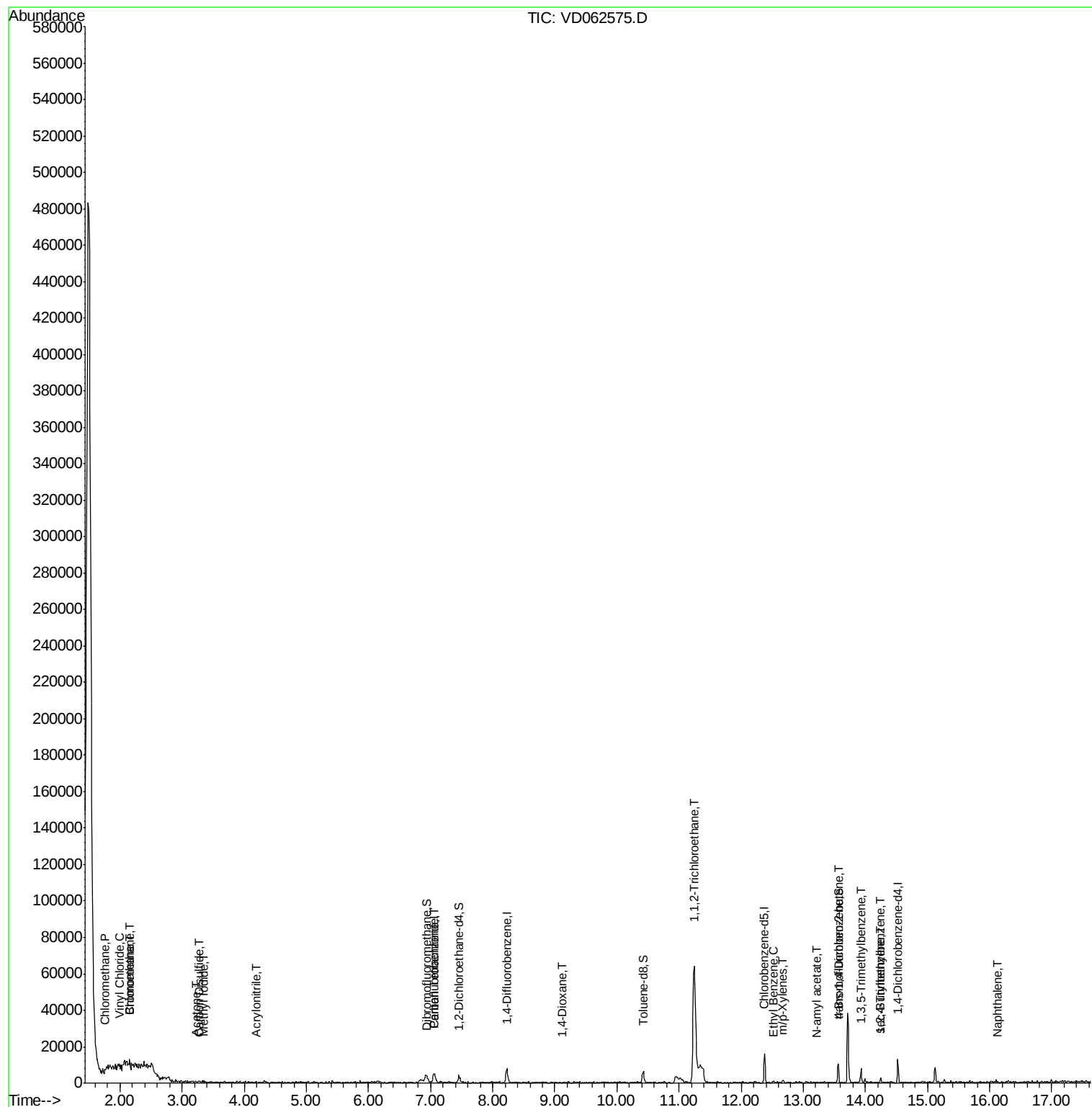
Target Compounds						Qvalue
3) Chloromethane	1.75	50	1100	10.053	ug/l #	43
4) Vinyl Chloride	2.00	62	181	2.731	ug/l #	42
5) Bromomethane	2.16	94	865	40.184	ug/l #	12
6) Chloroethane	2.16	64	310	9.973	ug/l #	26
10) Methyl Iodide	3.35	142	825	8.789	ug/l #	92
15) Acrylonitrile	4.18	53	203	22.694	ug/l #	11
16) Acetone	3.22	43	295	17.114	ug/l #	60
17) Carbon Disulfide	3.27	76	246	1.293	ug/l #	74
38) Carbon Tetrachloride	7.05	117	213	1.394	ug/l #	15
49) 1,4-Dioxane	9.13	88	223	765.289	ug/l #	38
55) 1,1,2-Trichloroethane	11.24	97	861	19.083	ug/l #	16
67) Ethyl Benzene	12.53	91	511	1.916	ug/l #	47
68) m/p-Xylenes	12.67	106	309	3.349	ug/l	93
74) N-amyl acetate	13.23	43	186	4.172	ug/l #	51
80) 1,3,5-Trimethylbenzene	13.94	105	242	1.620	ug/l #	34
81) trans-1,4-Dichloro-2-buten	13.56	75	1916	210.163	ug/l #	5
84) 1,2,4-Trimethylbenzene	14.25	105	483	3.173	ug/l #	58
85) sec-Butylbenzene	14.25	105	483	2.735	ug/l #	60
95) Naphthalene	16.13	128	284	3.731	ug/l #	71

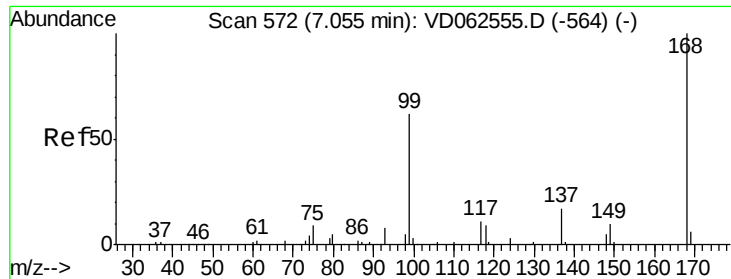
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.01 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

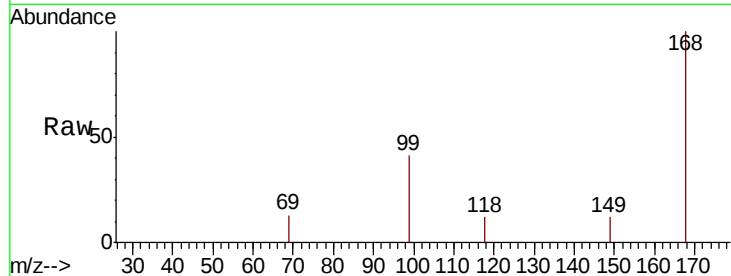
RBR-251-688RE

Tot Ion:168 Resp: 7482

Ion Ratio Lower Upper

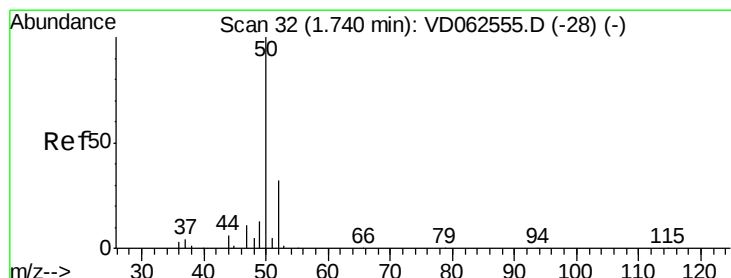
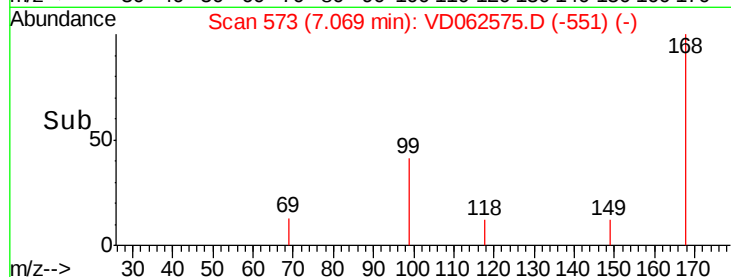
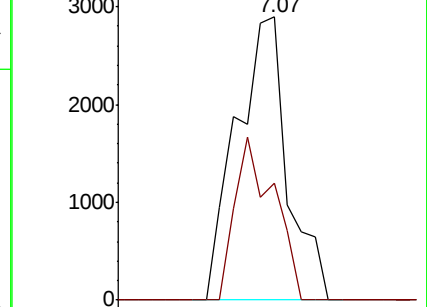
168 100

99 41.2 50.8 76.2#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 10.053 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD062575.D

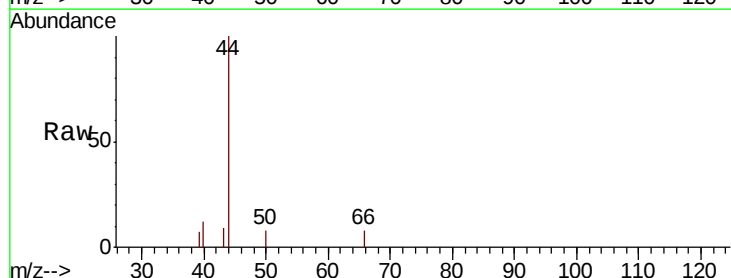
Acq: 31 May 2019 20:25

Tgt Ion: 50 Resp: 1100

Ion Ratio Lower Upper

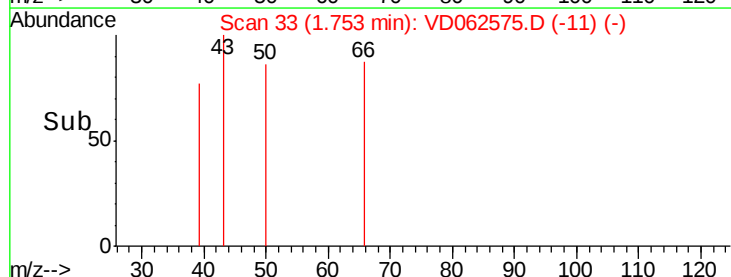
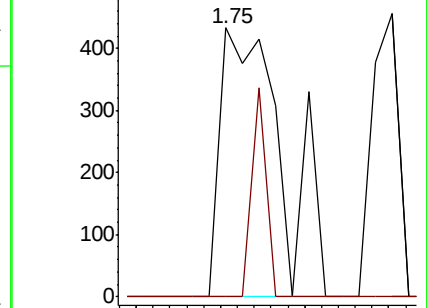
50 100

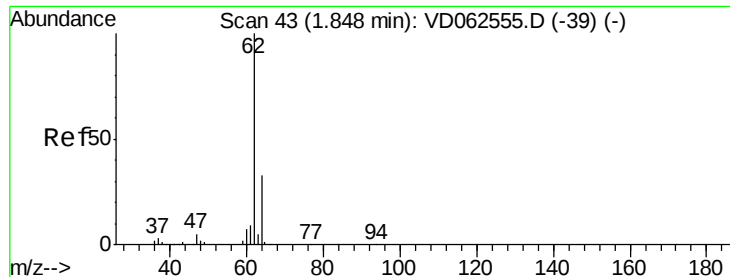
52 0.0 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#4

Vinyl Chloride

Concen: 2.731 ug/l

RT: 2.00 min Scan# 58

Delta R.T. 0.15 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

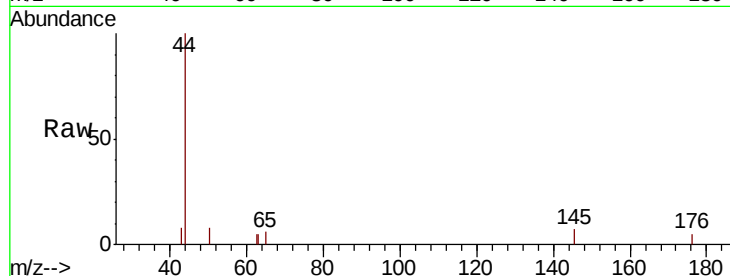
RBR-251-688RE

Tot Ion: 62 Resp: 181

Ion Ratio Lower Upper

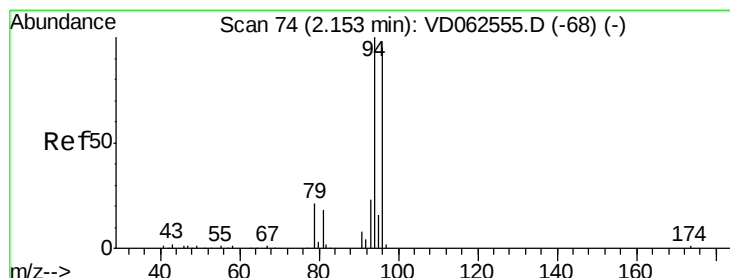
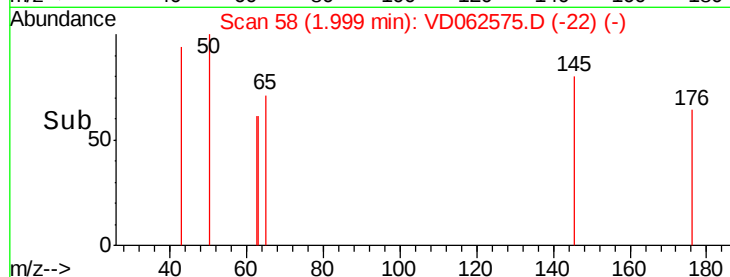
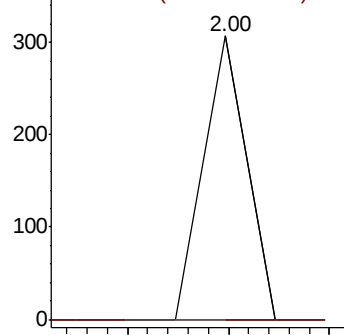
62 100

64 0.0 26.5 39.7#



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC



#5

Bromomethane

Concen: 40.184 ug/l

RT: 2.16 min Scan# 74

Delta R.T. 0.00 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

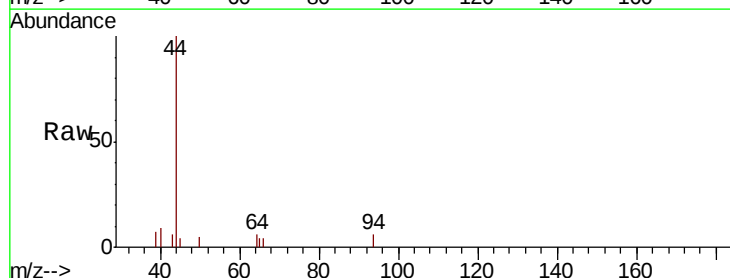
Tgt Ion: 94 Resp: 865

Ion Ratio Lower Upper

94 100

96 0.0 76.2 114.4#

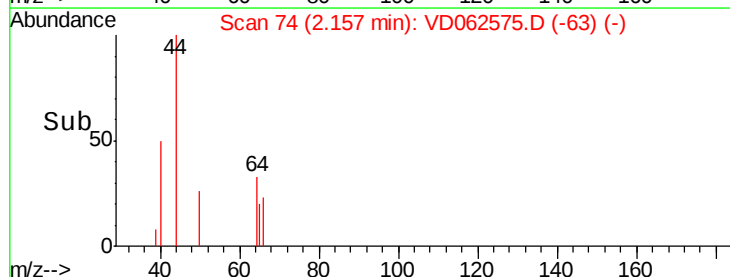
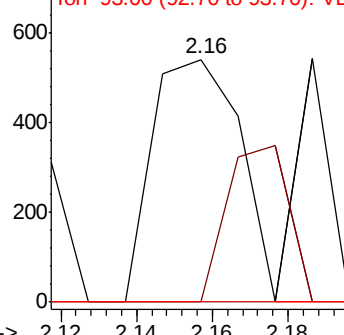
93 0.0 18.4 27.6#

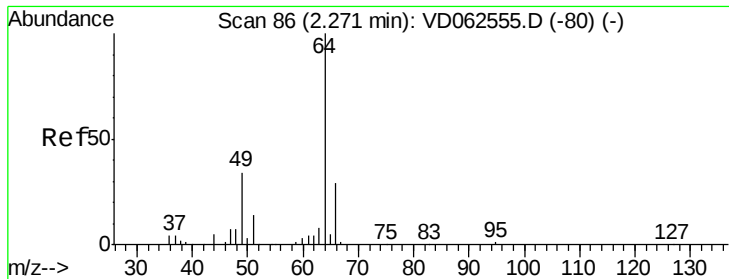


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#6

Chloroethane

Concen: 9.973 ug/l

RT: 2.16 min Scan# 74

Delta R.T. -0.11 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

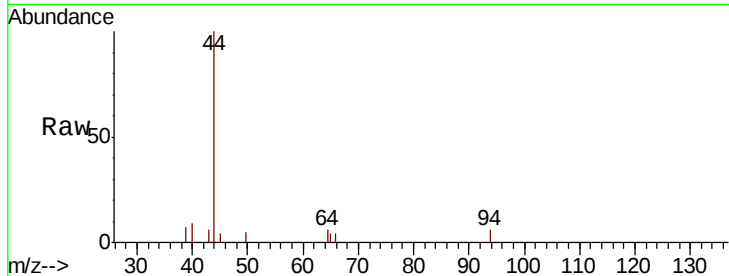
RBR-251-688RE

Tot Ion: 64 Resp: 310

Ion Ratio Lower Upper

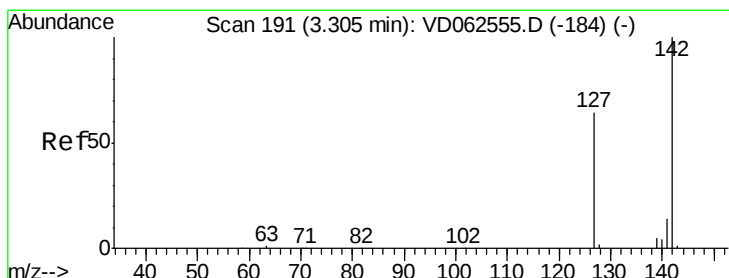
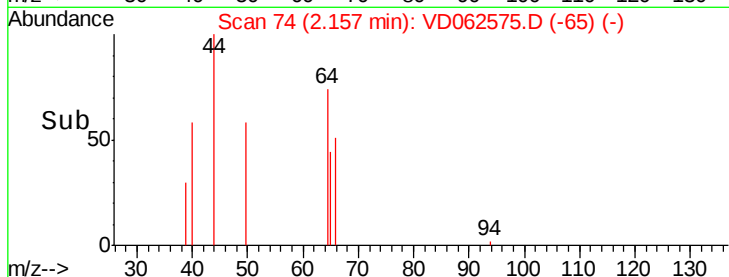
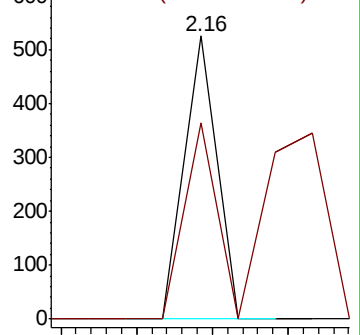
64 100

66 69.1 23.4 35.2#



Abundance Ion 63.95 (63.65 to 64.65): V

Ion 65.90 (65.60 to 66.60): V



#10

Methyl Iodide

Concen: 8.789 ug/l

RT: 3.35 min Scan# 195

Delta R.T. 0.04 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

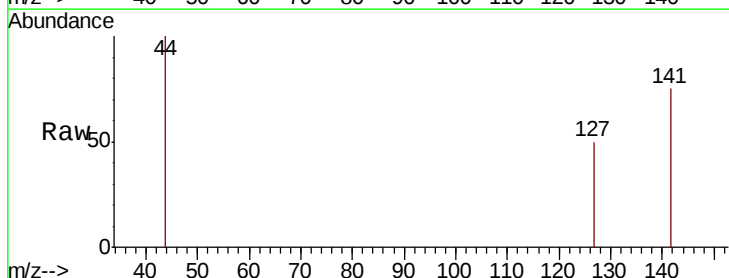
Tgt Ion: 142 Resp: 825

Ion Ratio Lower Upper

142 100

127 66.1 51.2 76.8

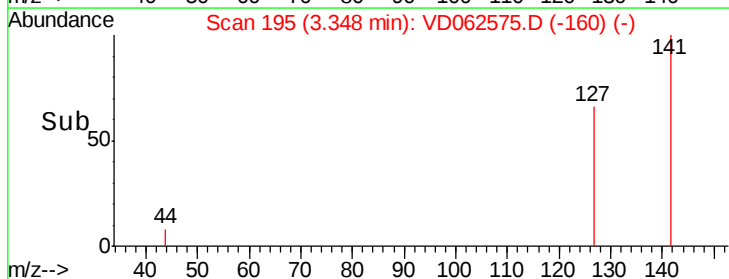
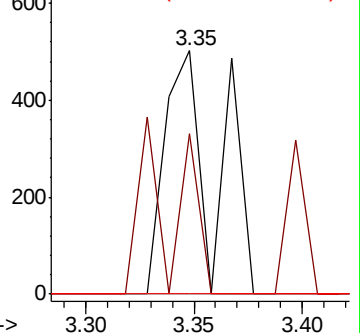
141 0.0 11.0 16.4#

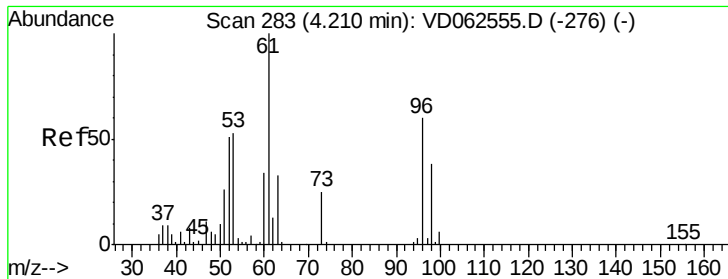


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#15

Acrylonitrile

Concen: 22.694 ug/l

RT: 4.18 min Scan# 280

Delta R.T. -0.03 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

RBR-251-688RE

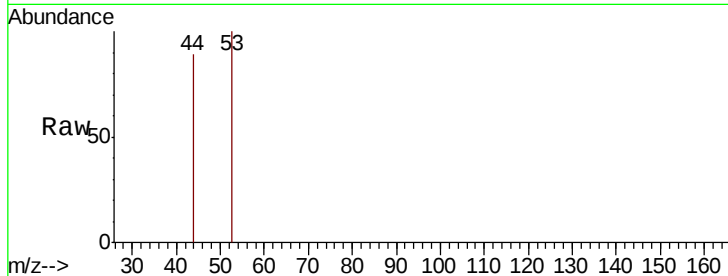
Tot Ion: 53 Resp: 203

Ion Ratio Lower Upper

53 100

52 0.0 76.2 114.2#

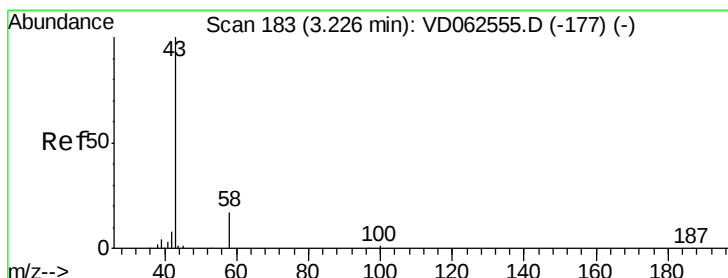
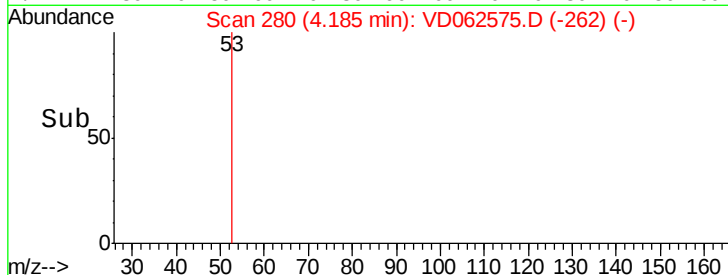
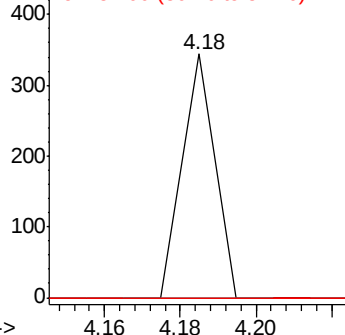
51 0.0 40.2 60.4#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 17.114 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD062575.D

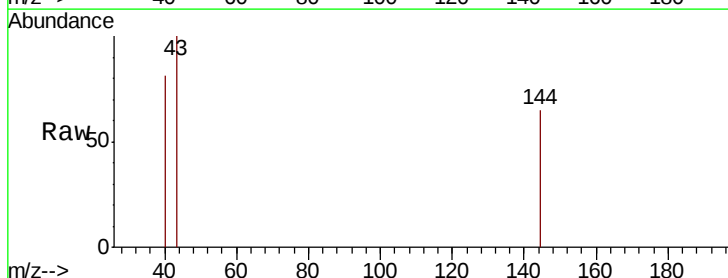
Acq: 31 May 2019 20:25

Tgt Ion: 43 Resp: 295

Ion Ratio Lower Upper

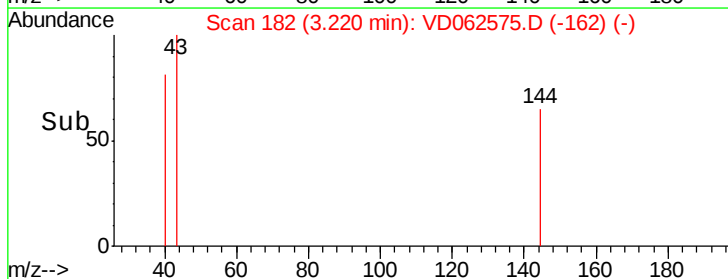
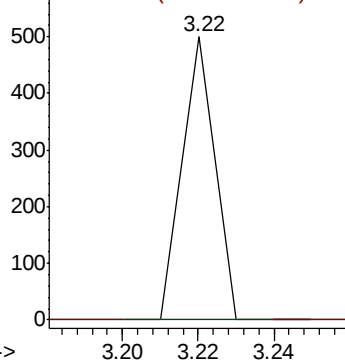
43 100

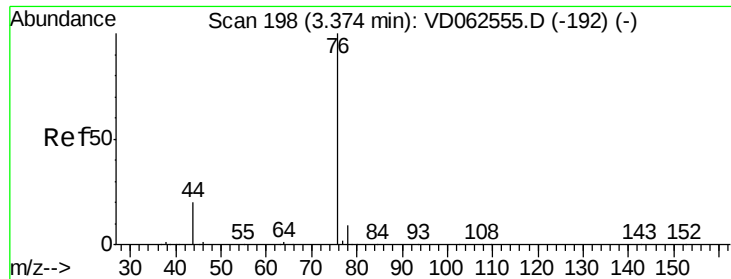
58 0.0 13.8 20.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

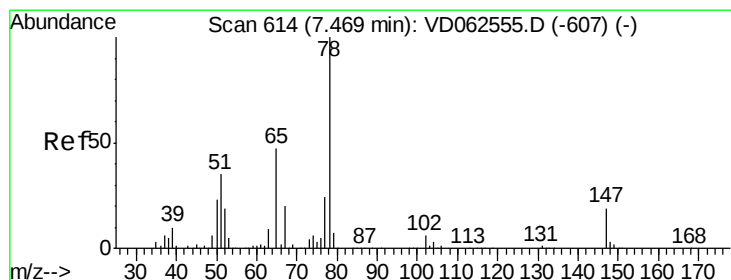
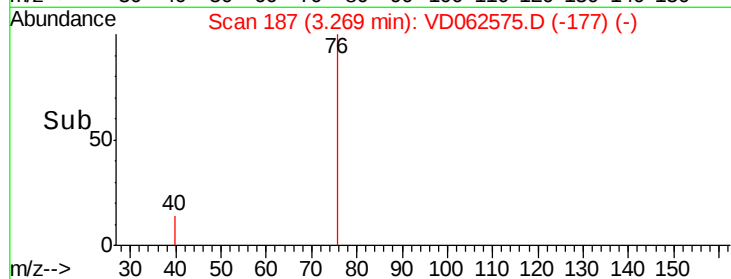
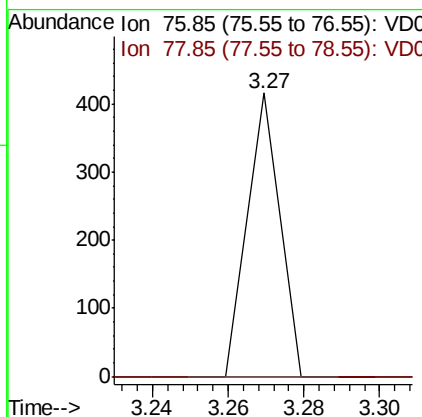
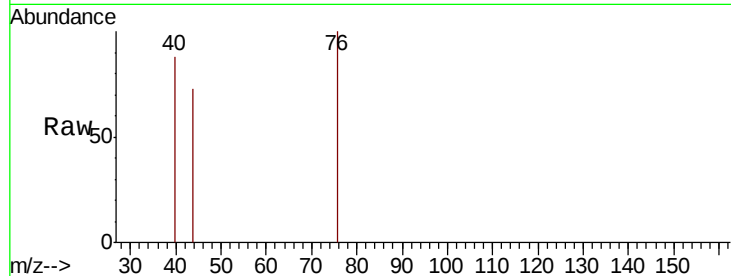




#17
Carbon Disulfide
Concen: 1.293 ug/l
RT: 3.27 min Scan# 187
Delta R.T. -0.10 min
Lab File: VD062575.D
Acq: 31 May 2019 20:25

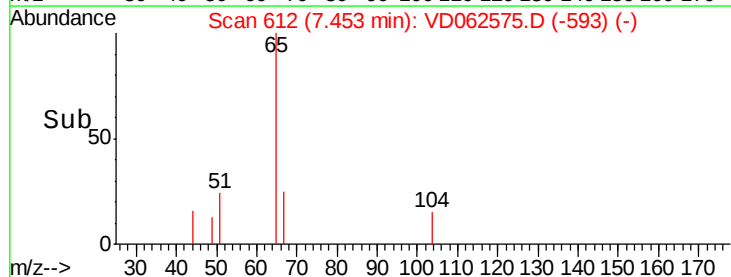
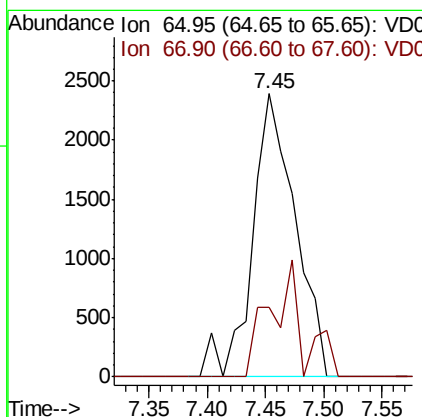
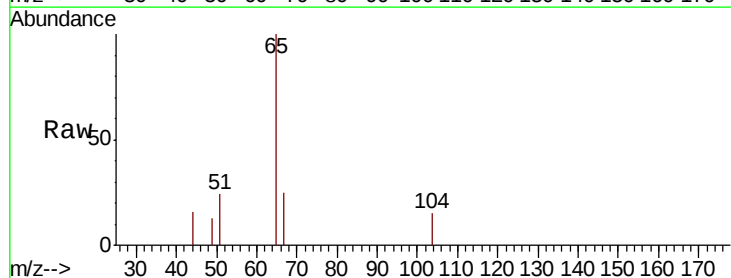
Instrument :
MSVOA_D
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RBR-251-688RE

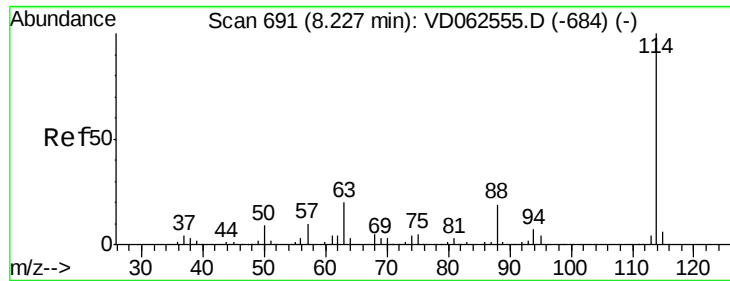
Tot Ion: 76 Resp: 246
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#33
1,2-Dichloroethane-d4
Concen: 69.453 ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.02 min
Lab File: VD062575.D
Acq: 31 May 2019 20:25

Tgt Ion: 65 Resp: 6093
Ion Ratio Lower Upper
65 100
67 24.5 0.0 83.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.00 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

RBR-251-688RE

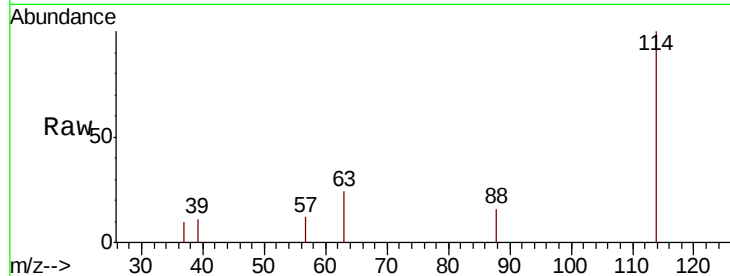
Tot Ion:114 Resp: 10312

Ion Ratio Lower Upper

114 100

63 24.4 0.0 40.6

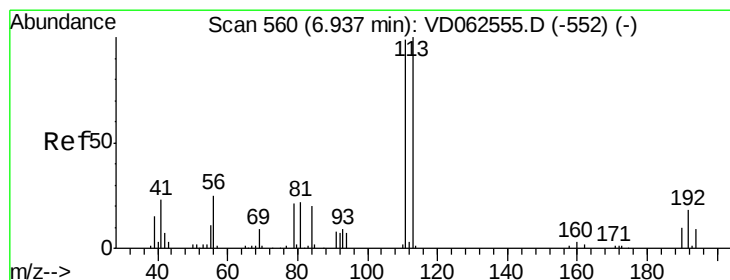
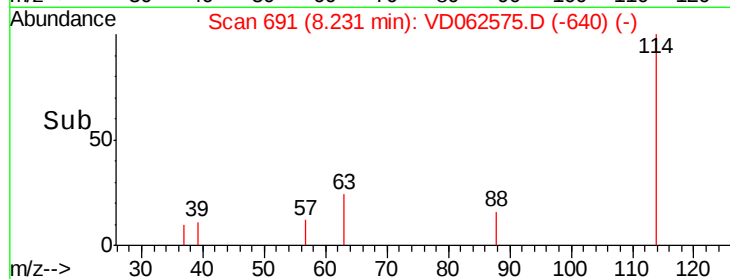
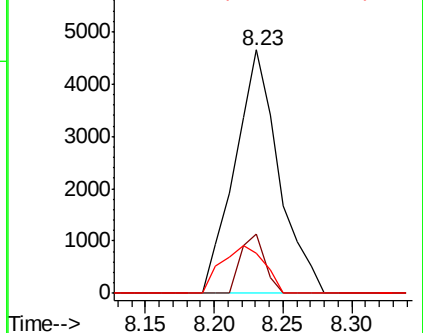
88 16.5 0.0 37.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 28.626 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.00 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

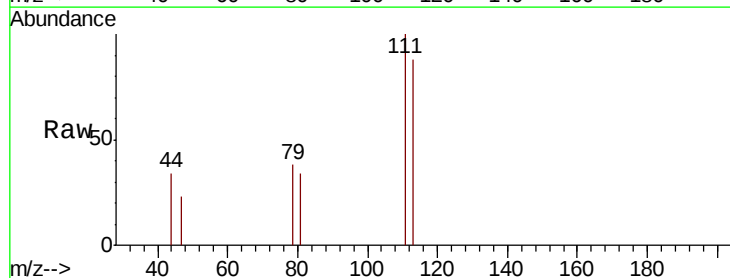
Tgt Ion:113 Resp: 2690

Ion Ratio Lower Upper

113 100

111 113.3 78.8 118.2

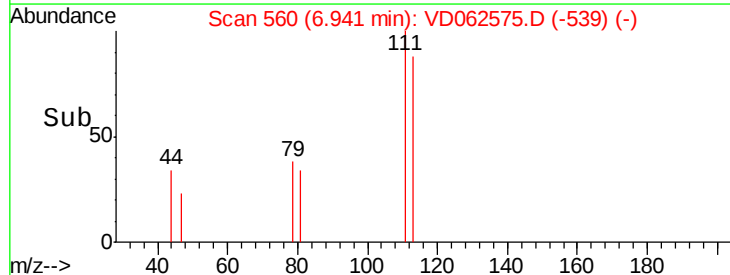
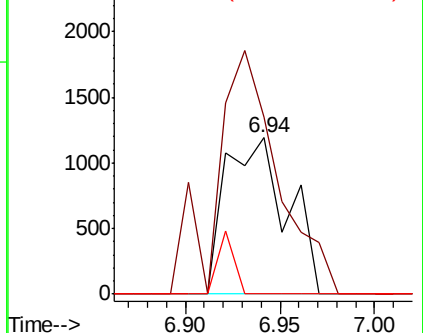
192 0.0 14.6 22.0#

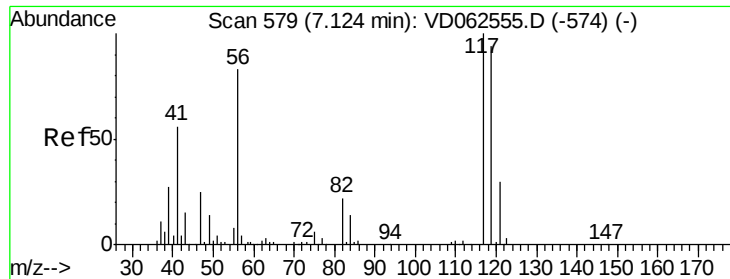


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#38

Carbon Tetrachloride

Concen: 1.394 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

Instrument :

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RBR-251-688RE

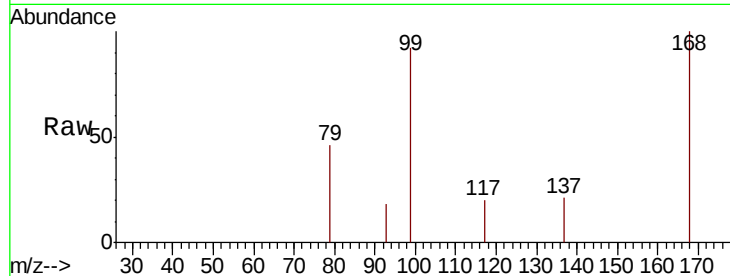
Tot Ion:117 Resp: 213

Ion Ratio Lower Upper

117 100

119 0.0 71.4 107.2#

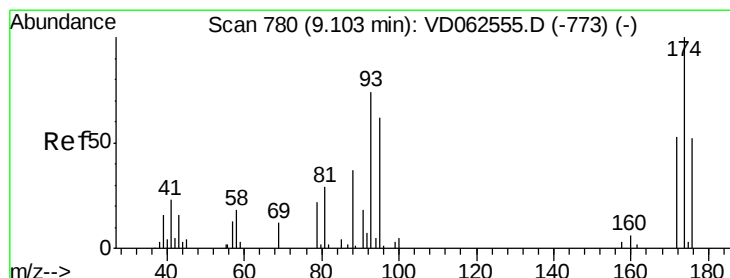
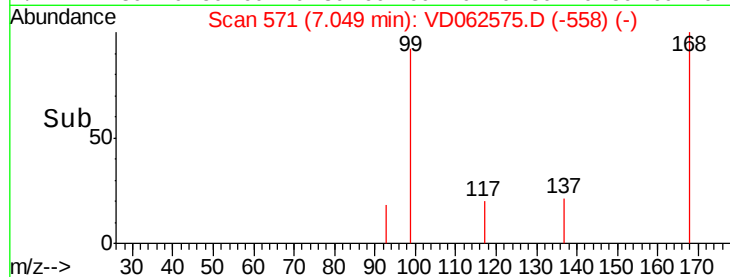
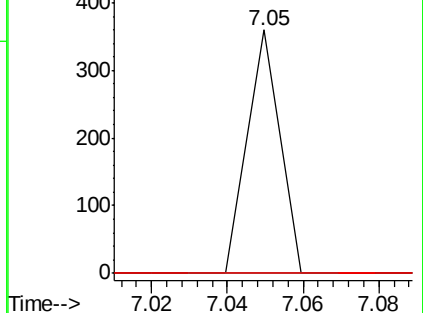
121 0.0 22.5 33.7#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#49

1,4-Dioxane

Concen: 765.289 ug/l

RT: 9.13 min Scan# 782

Delta R.T. 0.02 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

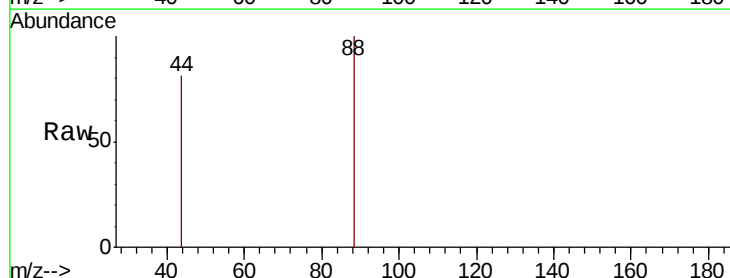
Tgt Ion: 88 Resp: 223

Ion Ratio Lower Upper

88 100

43 80.9 37.1 55.7#

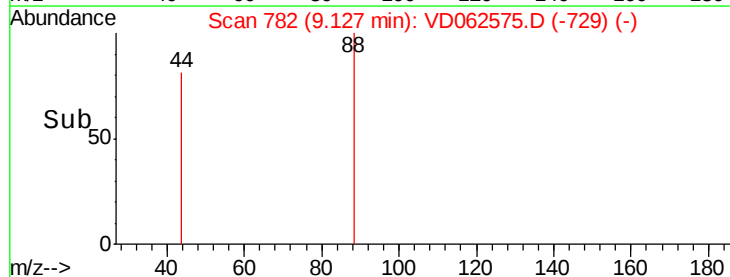
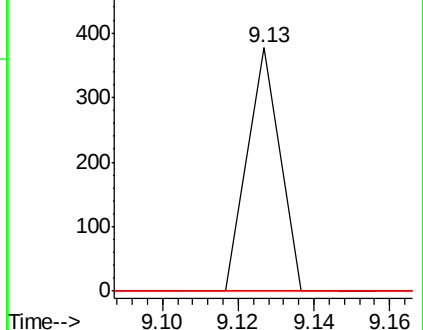
58 0.0 39.3 58.9#

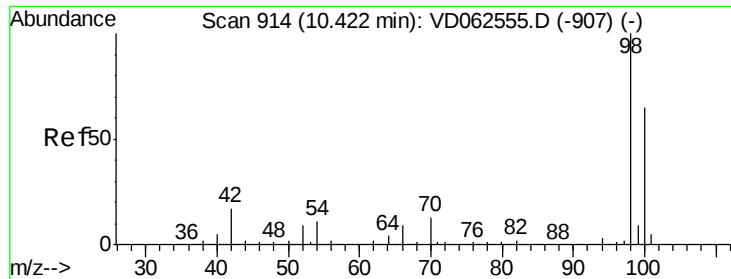


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 27.675 ug/l

RT: 10.43 min Scan# 914

Delta R.T. 0.00 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

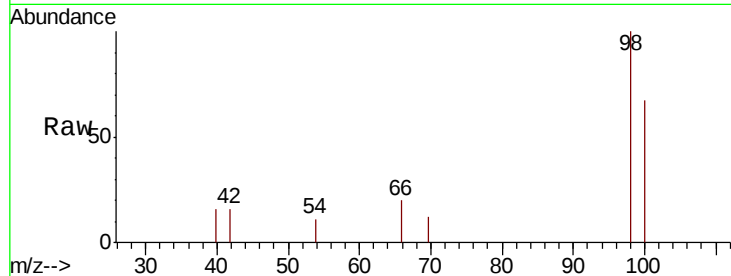
RBR-251-688RE

Tot Ion: 98 Resp: 5698

Ion Ratio Lower Upper

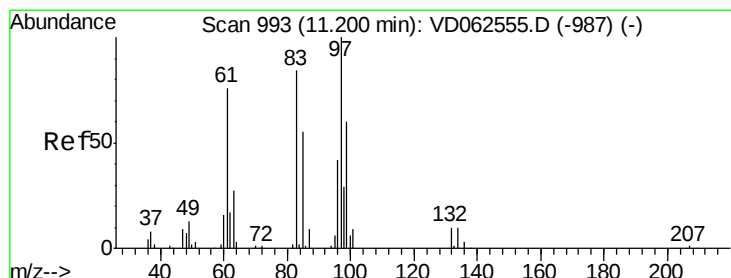
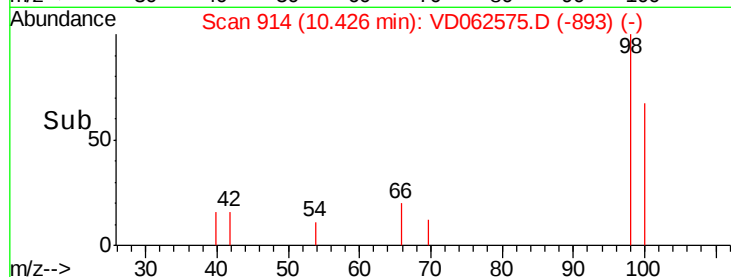
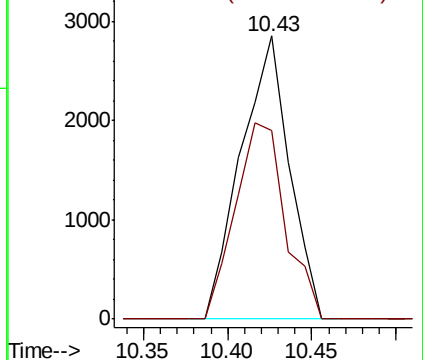
98 100

100 66.5 52.3 78.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#55

1,1,2-Trichloroethane

Concen: 19.083 ug/l

RT: 11.24 min Scan# 997

Delta R.T. 0.04 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

Tgt Ion: 97 Resp: 861

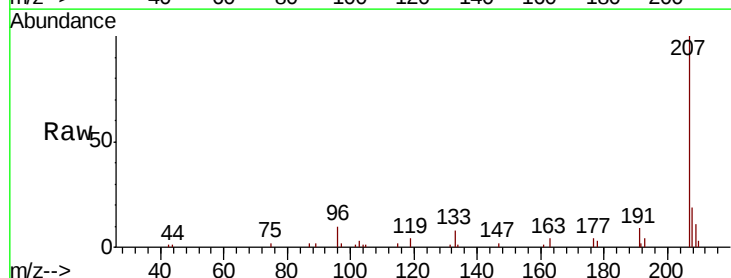
Ion Ratio Lower Upper

97 100

83 0.0 67.3 100.9#

85 0.0 43.8 65.8#

99 0.0 48.2 72.2#

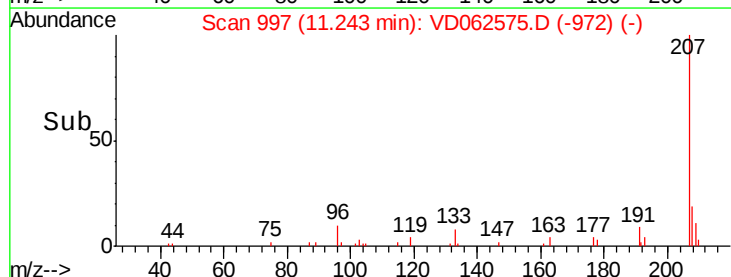
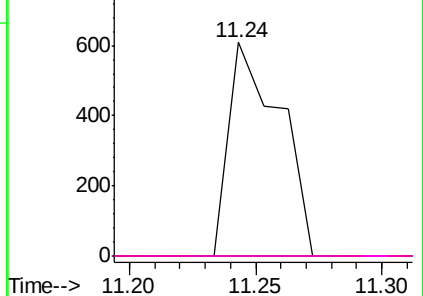


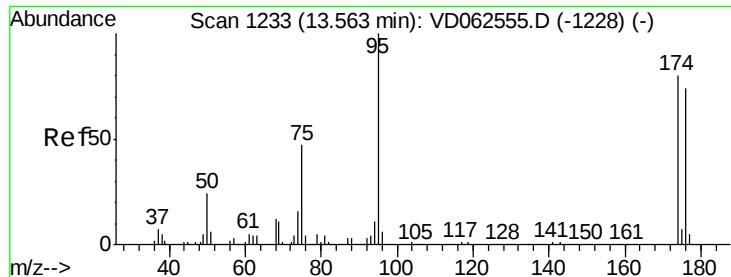
Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC





#62

4-Bromofluorobenzene

Concen: 27.043 ug/l

RT: 13.57 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

RBR-251-688RE

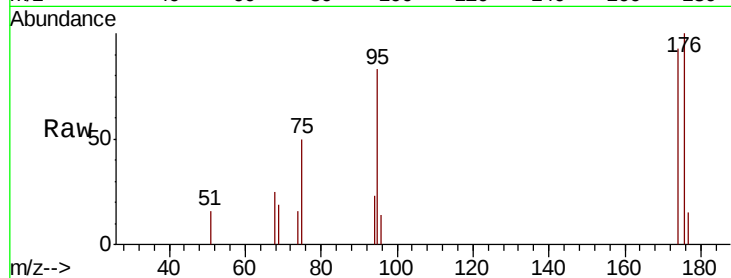
Tot Ion: 95 Resp: 2511

Ion Ratio Lower Upper

95 100

174 112.6 0.0 160.2

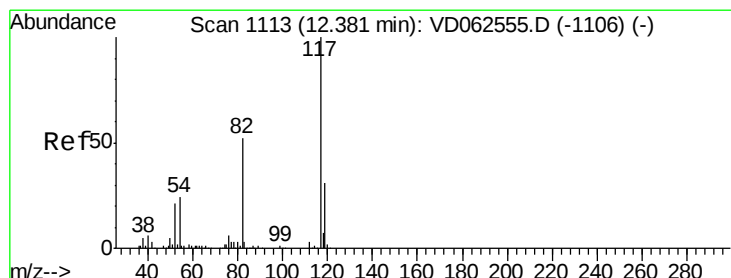
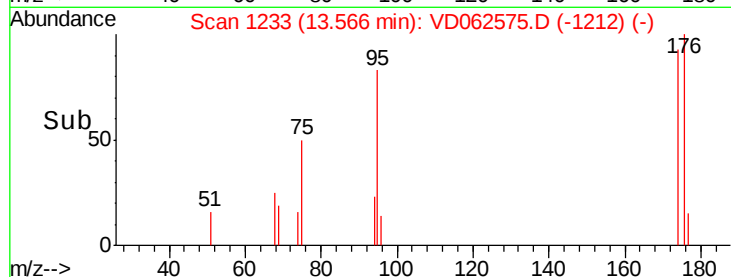
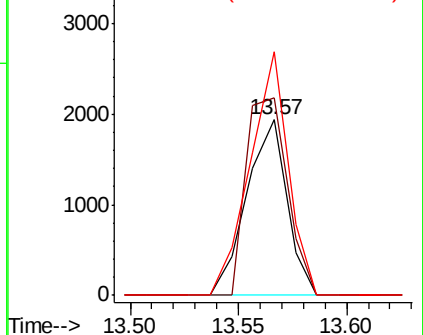
176 138.6 0.0 148.0



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.38 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

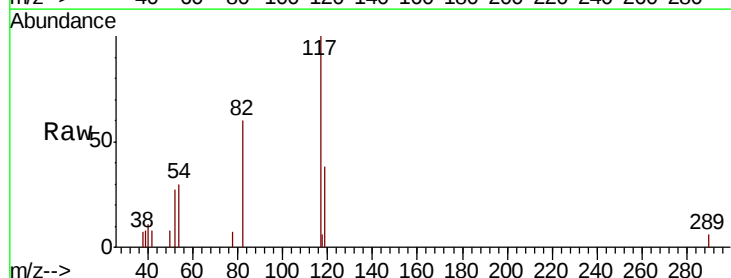
Tgt Ion: 117 Resp: 7473

Ion Ratio Lower Upper

117 100

82 60.1 41.4 62.2

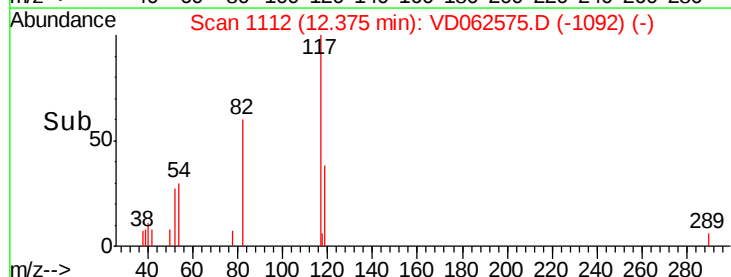
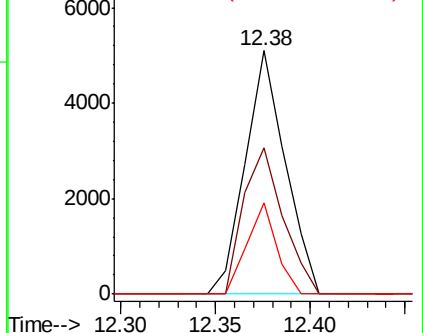
119 37.6 24.9 37.3#

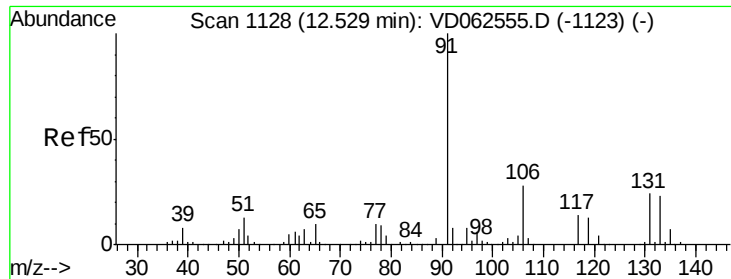


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

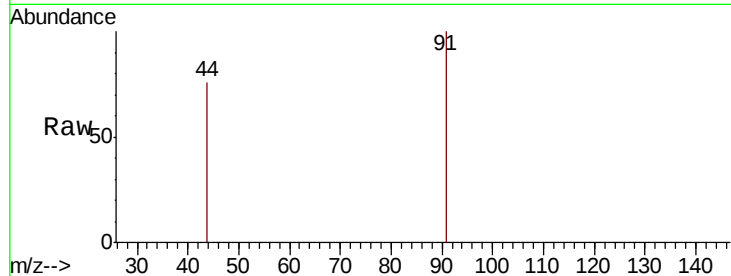




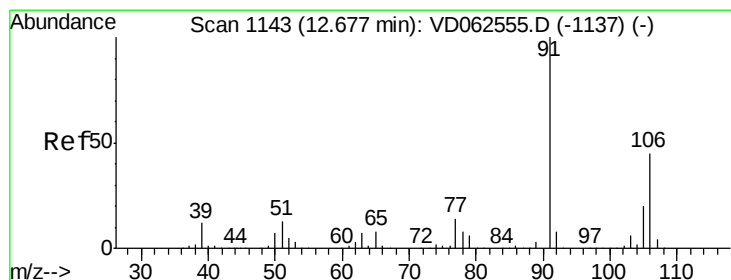
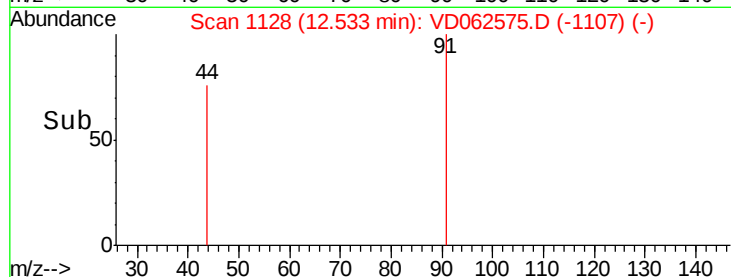
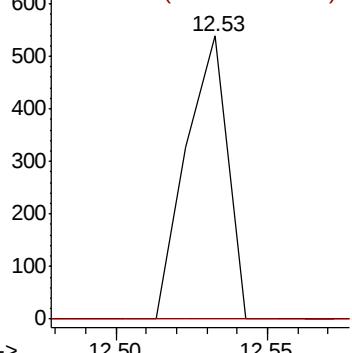
#67
Ethyl Benzene
Concen: 1.916 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VD062575.D
Acq: 31 May 2019 20:25

Instrument :
MSVOA_D
ClientSampleId :
RBR-251-688RE

Tot Ion: 91 Resp: 511
Ion Ratio Lower Upper
91 100
106 0.0 22.2 33.2#

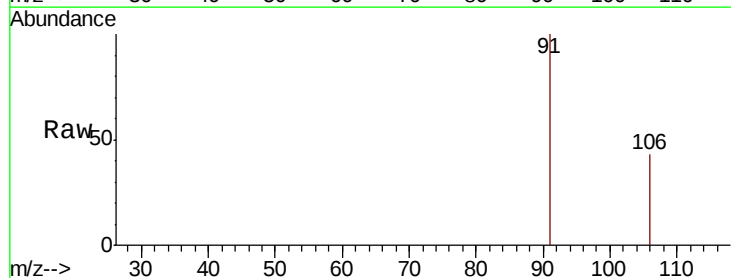


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V

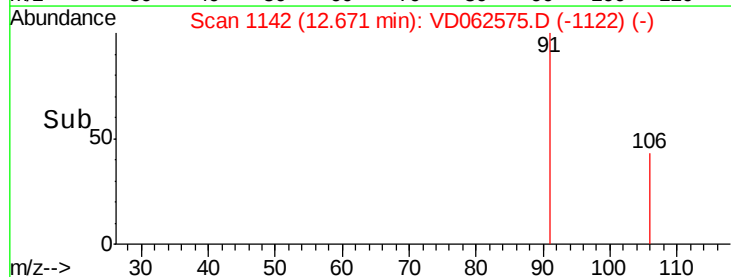
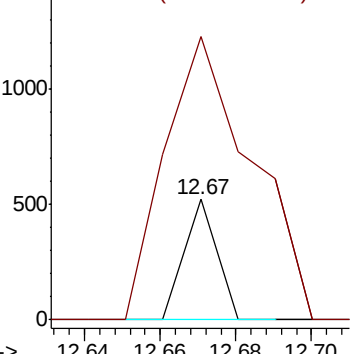


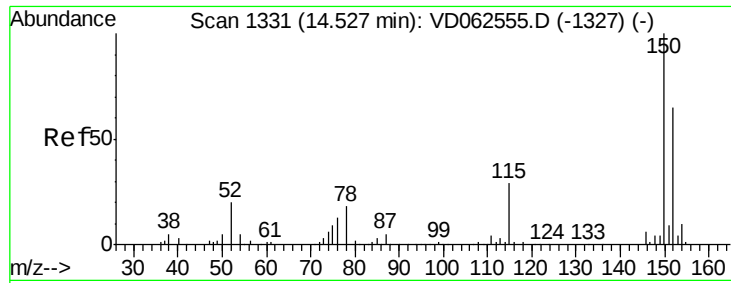
#68
m/p-Xylenes
Concen: 3.349 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. -0.01 min
Lab File: VD062575.D
Acq: 31 May 2019 20:25

Tgt Ion: 106 Resp: 309
Ion Ratio Lower Upper
106 100
91 234.8 178.9 268.3



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

RBR-251-688RE

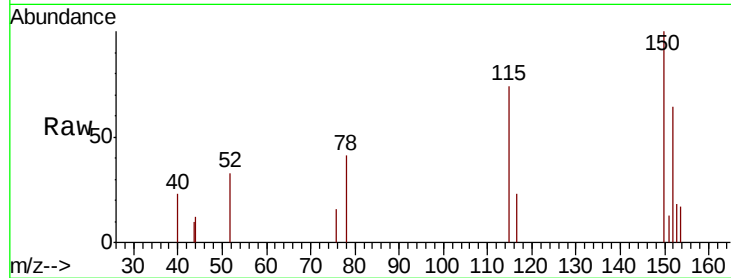
Tot Ion:152 Resp: 2652

Ion Ratio Lower Upper

152 100

115 115.9 28.4 85.3#

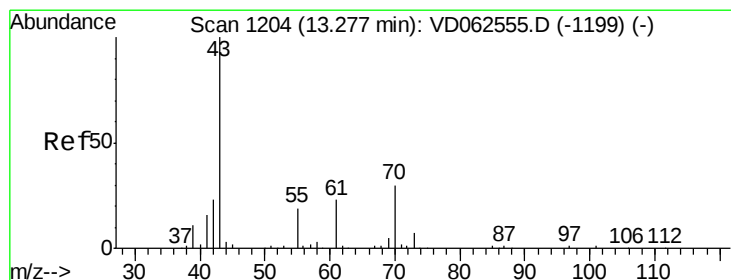
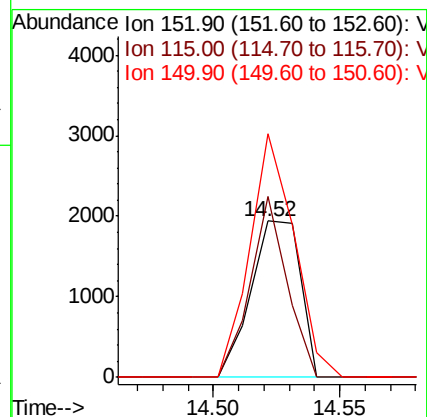
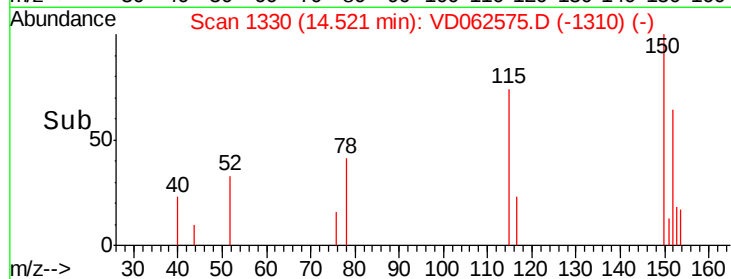
150 155.8 0.0 310.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#74

N-aryl acetate

Concen: 4.172 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.05 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

Tgt Ion: 43 Resp: 186

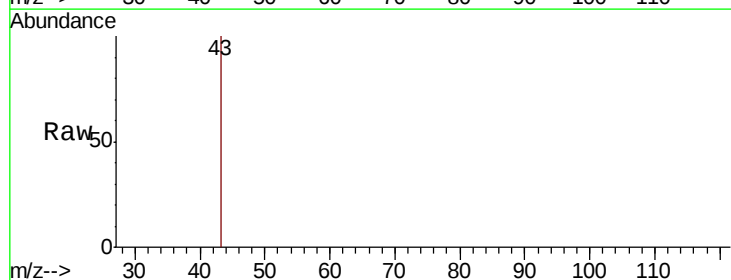
Ion Ratio Lower Upper

43 100

70 0.0 23.7 35.5#

55 0.0 15.0 22.4#

61 0.0 18.4 27.6#

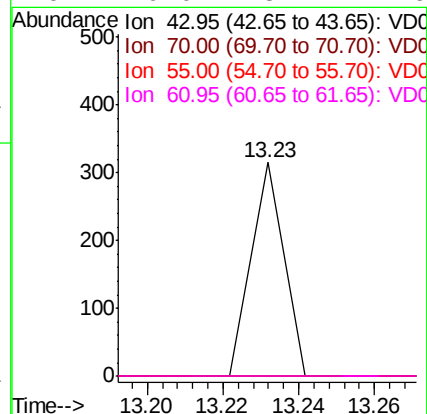
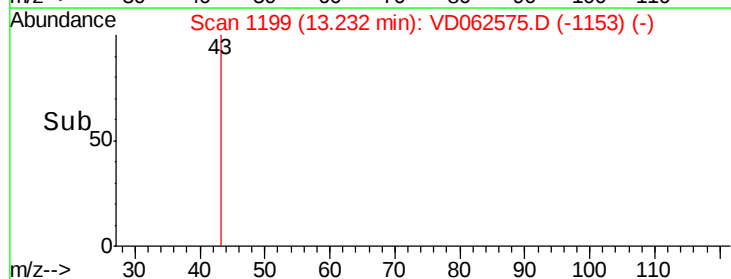


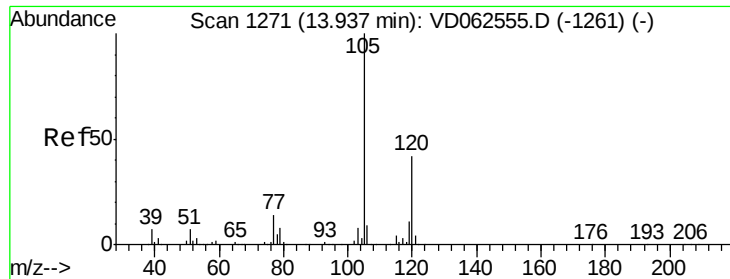
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

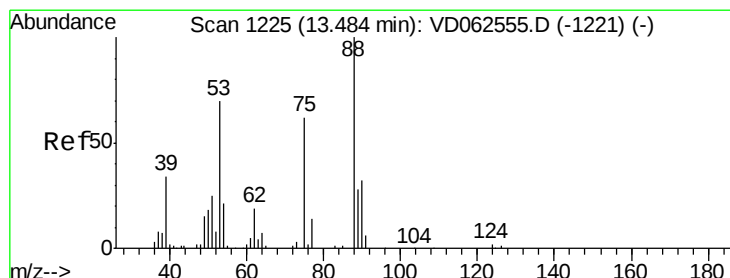
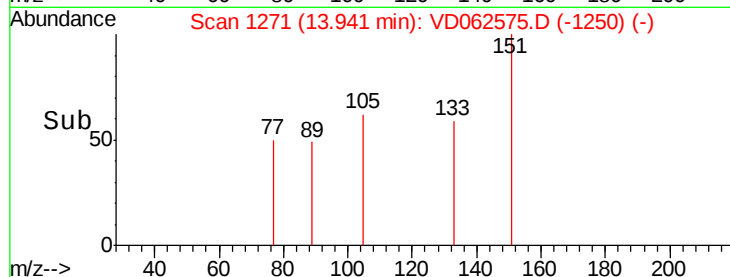
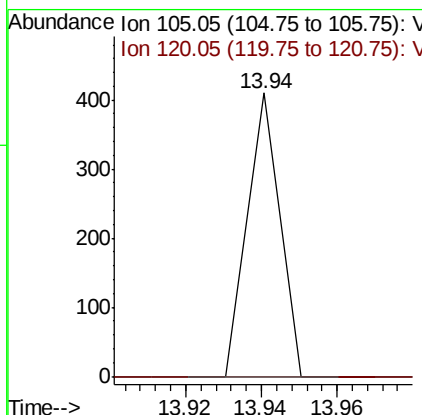
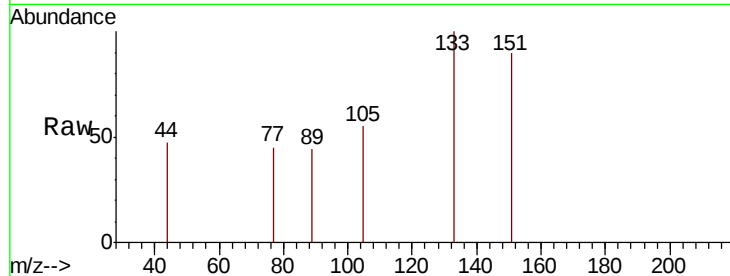




#80
 1,3,5-Trimethylbenzene
 Concen: 1.620 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VD062575.D
 Acq: 31 May 2019 20:25

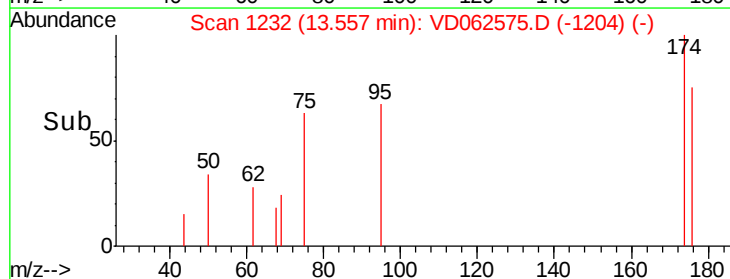
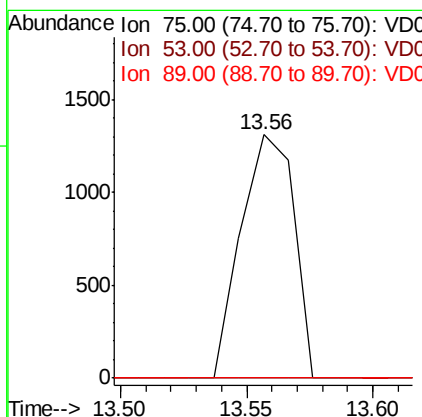
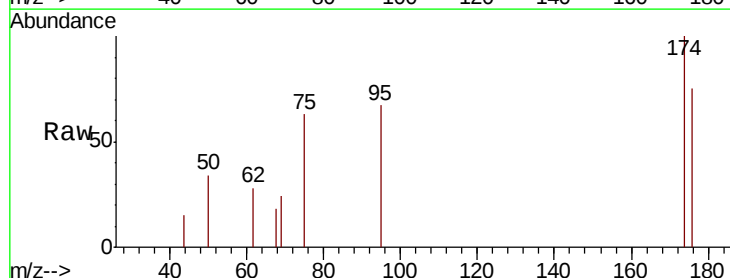
Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-251-688RE

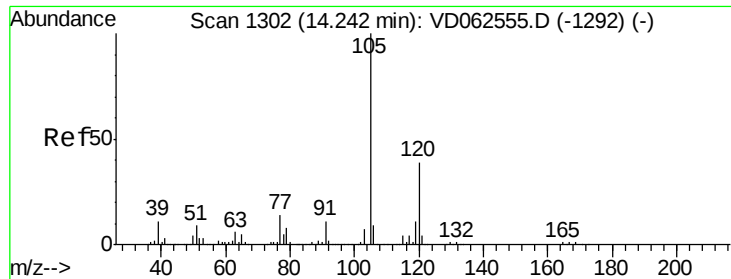
Tot Ion:105 Resp: 242
 Ion Ratio Lower Upper
 105 100
 120 0.0 20.8 62.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 210.163 ug/l
 RT: 13.56 min Scan# 1232
 Delta R.T. 0.07 min
 Lab File: VD062575.D
 Acq: 31 May 2019 20:25

Tgt Ion: 75 Resp: 1916
 Ion Ratio Lower Upper
 75 100
 53 0.0 91.0 136.4#
 89 0.0 36.9 55.3#

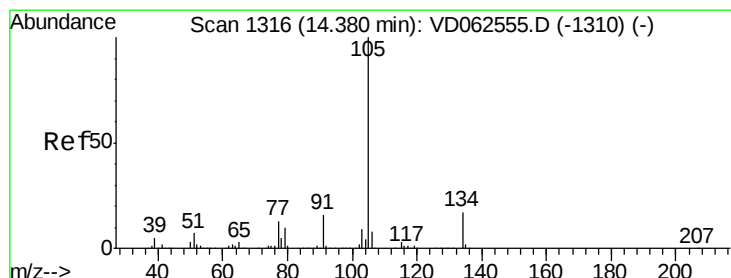
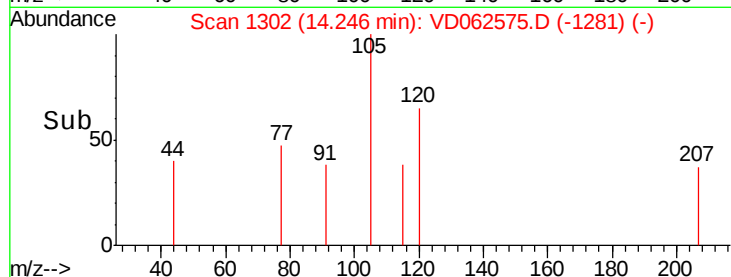
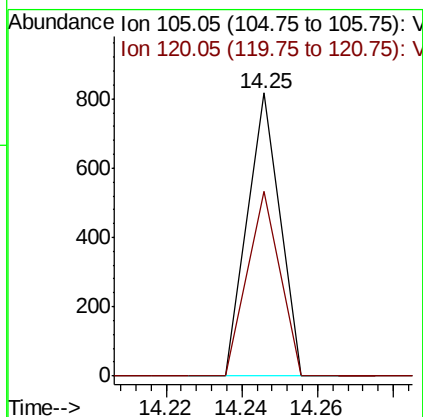
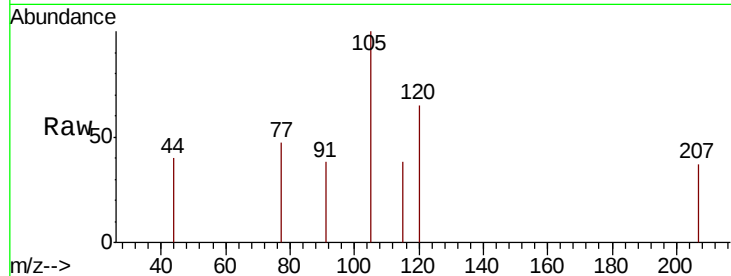




#84
 1,2,4-Trimethylbenzene
 Concen: 3.173 ug/l
 RT: 14.25 min Scan# 1302
 Delta R.T. 0.00 min
 Lab File: VD062575.D
 Acq: 31 May 2019 20:25

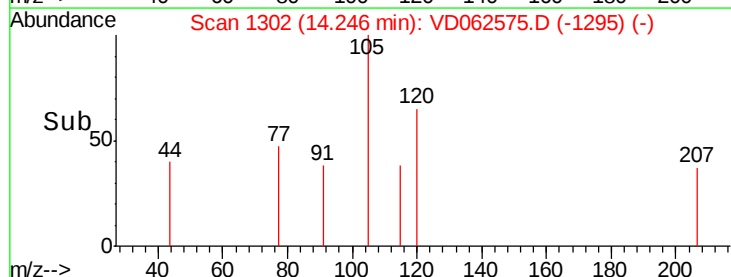
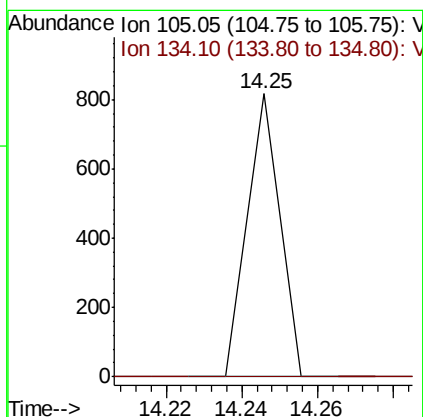
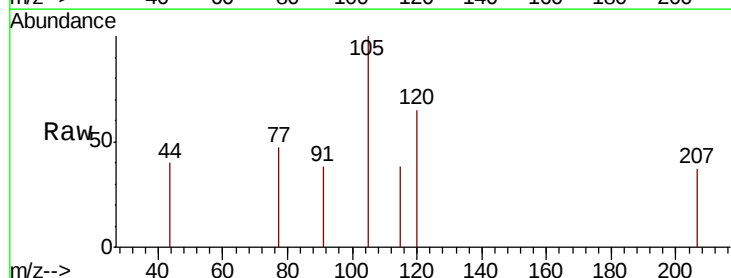
Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-251-688RE

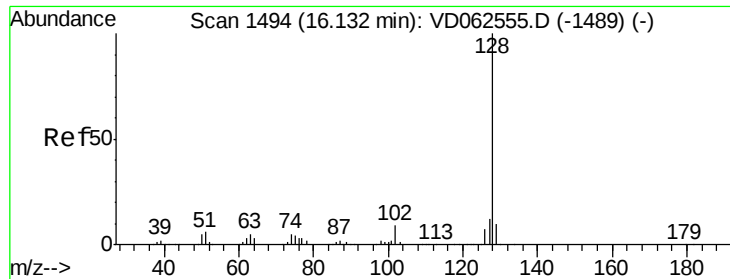
Tot Ion:105 Resp: 483
 Ion Ratio Lower Upper
 105 100
 120 65.1 19.6 58.8#



#85
 sec-Butylbenzene
 Concen: 2.735 ug/l
 RT: 14.25 min Scan# 1302
 Delta R.T. -0.13 min
 Lab File: VD062575.D
 Acq: 31 May 2019 20:25

Tgt Ion:105 Resp: 483
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.7 26.1#





#95

Napthalene

Concen: 3.731 ug/l

RT: 16.13 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VD062575.D

Acq: 31 May 2019 20:25

Instrument :

MSVOA_D

ClientSampleId :

RBR-251-688RE

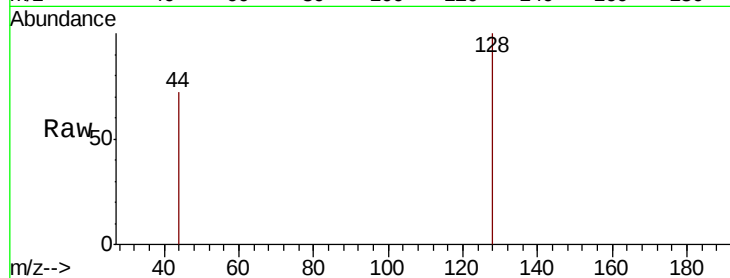
Tot Ion:128 Resp: 284

Ion Ratio Lower Upper

128 100

127 0.0 9.7 14.5#

129 0.0 8.2 12.2#



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

