

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060519\
 Data File : VD062623.D
 Acq On : 6 Jun 2019 13:10
 Operator : FY/SY
 Sample : K3218-01
 Misc : 8.38g/5mL/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200035

Quant Time: Jun 07 03:24:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060519S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 06 05:42:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	40728	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.24	114	63555	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	53638	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	29926	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	24001	42.99	ug/l	0.00
Spiked Amount			Recovery	=	85.98%	
35) Dibromofluoromethane	6.94	113	20566	31.84	ug/l	0.00
Spiked Amount			Recovery	=	63.68%	
50) Toluene-d8	10.42	98	33937	24.39	ug/l	0.00
Spiked Amount			Recovery	=	48.78%	
62) 4-Bromofluorobenzene	13.56	95	18015	27.46	ug/l	0.00
Spiked Amount			Recovery	=	54.92%	

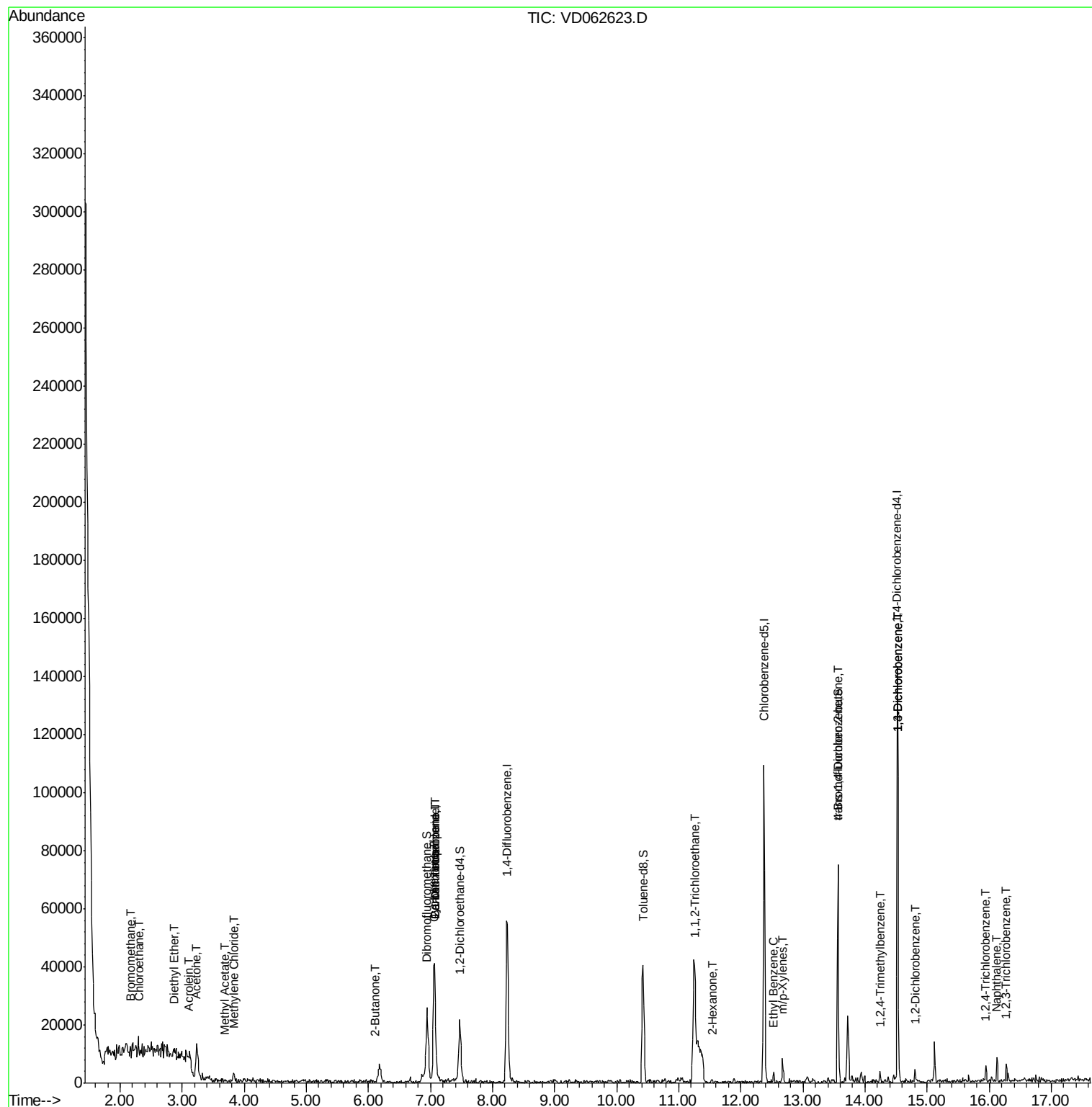
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	509	2.616	ug/l #	12
6) Chloroethane	2.31	64	250	1.285	ug/l #	39
8) Diethyl Ether	2.86	74	250	2.236	ug/l	64
13) Acrolein	3.10	56	263	29.749	ug/l #	11
16) Acetone	3.24	43	24574	244.920	ug/l	95
18) Methyl Acetate	3.70	43	230	1.289	ug/l #	57
20) Methylene Chloride	3.84	84	1184	3.032	ug/l #	47
25) 2-Butanone	6.10	43	192	2.014	ug/l #	57
31) Cyclohexane	7.05	56	627	1.364	ug/l #	1
36) 1,1-Dichloropropene	7.07	75	3107	4.547	ug/l #	43
38) Carbon Tetrachloride	7.07	117	4126	4.023	ug/l #	13
55) 1,1,2-Trichloroethane	11.27	97	708	2.305	ug/l #	15
59) 2-Hexanone	11.54	43	191	1.021	ug/l #	31
67) Ethyl Benzene	12.53	91	2128	1.056	ug/l #	83
68) m/p-Xylenes	12.68	106	1200	1.708	ug/l #	62
81) trans-1,4-Dichloro-2-buten	13.56	75	10309	102.736	ug/l #	1
84) 1,2,4-Trimethylbenzene	14.24	105	3188	1.739	ug/l	82
87) 1,3-Dichlorobenzene	14.54	146	1423	1.465	ug/l	84
88) 1,4-Dichlorobenzene	14.54	146	1423	1.446	ug/l	84
91) 1,2-Dichlorobenzene	14.81	146	936	1.044	ug/l	88
93) 1,2,4-Trichlorobenzene	15.95	180	1813	2.813	ug/l	76
95) Naphthalene	16.12	128	5493	5.952	ug/l #	93
96) 1,2,3-Trichlorobenzene	16.27	180	1633	3.314	ug/l	95

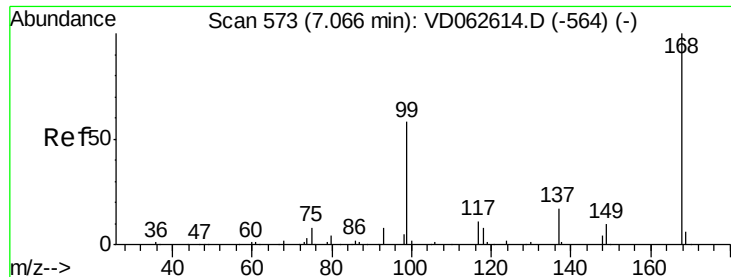
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 06 05:42:40 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.00 min

Lab File: VD062623.D

Acq: 6 Jun 2019 13:10

Instrument :

MSVOA_D

ClientSampleId :

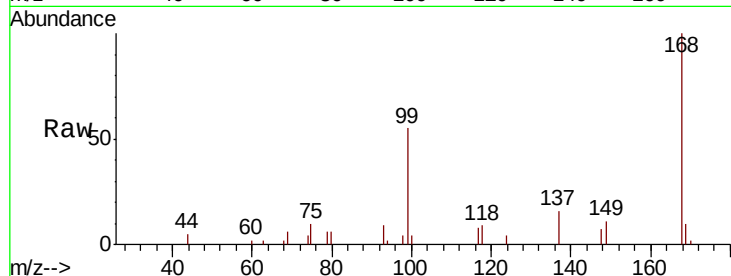
RBR-200035

Tot Ion:168 Resp: 40728

Ion Ratio Lower Upper

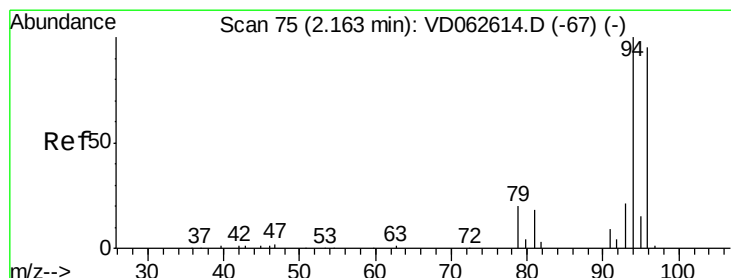
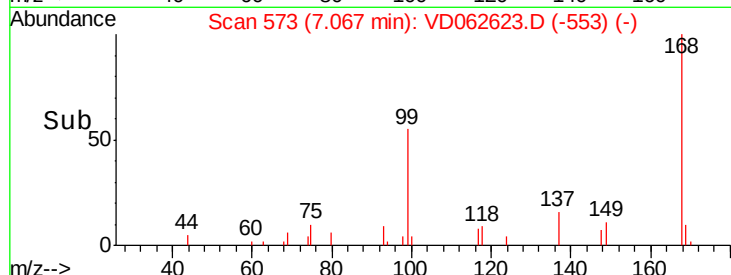
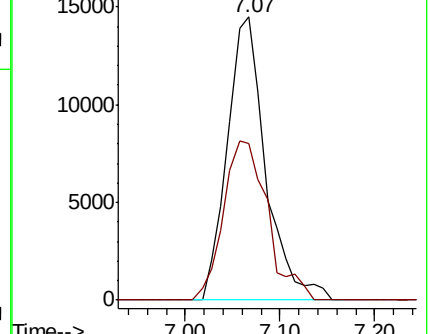
168 100

99 55.1 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 2.616 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.01 min

Lab File: VD062623.D

Acq: 6 Jun 2019 13:10

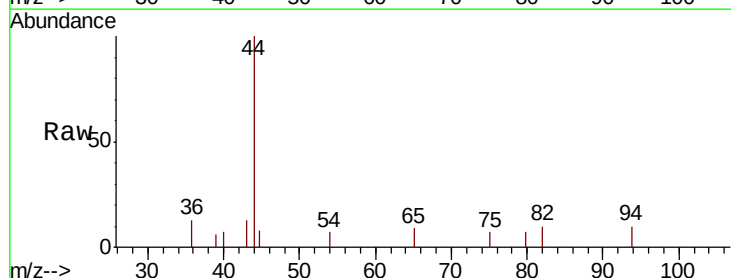
Tgt Ion: 94 Resp: 509

Ion Ratio Lower Upper

94 100

96 0.0 75.8 113.8#

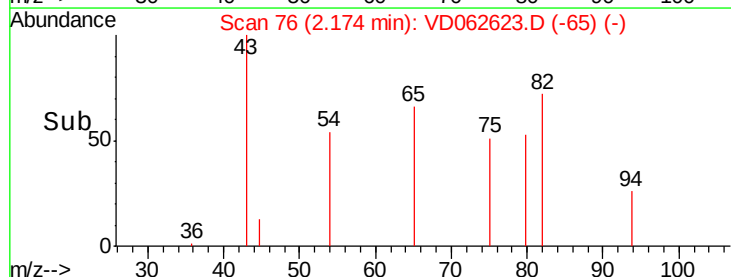
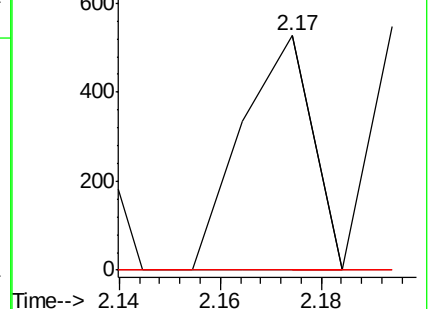
93 0.0 16.6 25.0#

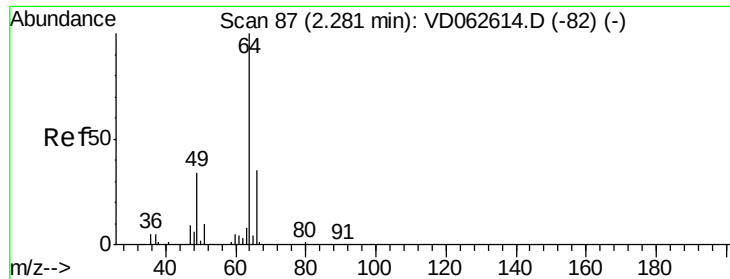


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#6

Chloroethane

Concen: 1.285 ug/l

RT: 2.31 min Scan# 90

Delta R.T. 0.03 min

Lab File: VD062623.D

Acq: 6 Jun 2019 13:10

Instrument :

MSVOA_D

ClientSampleID :

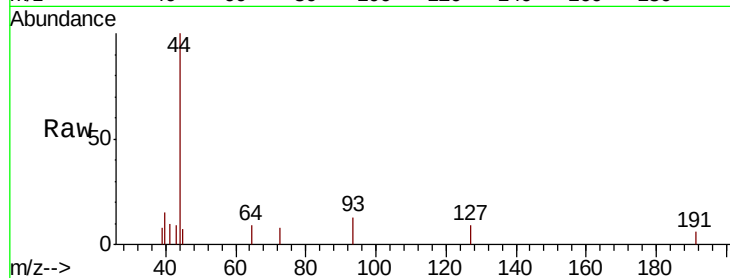
RBR-200035

Tot Ion: 64 Resp: 250

Ion Ratio Lower Upper

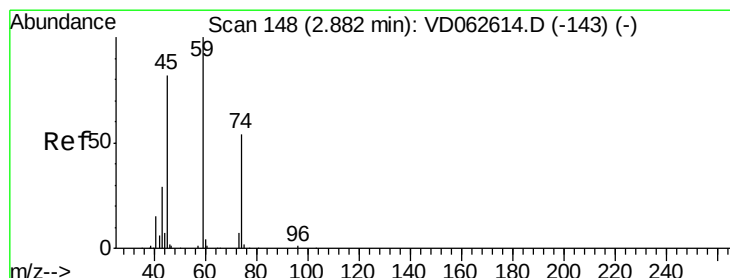
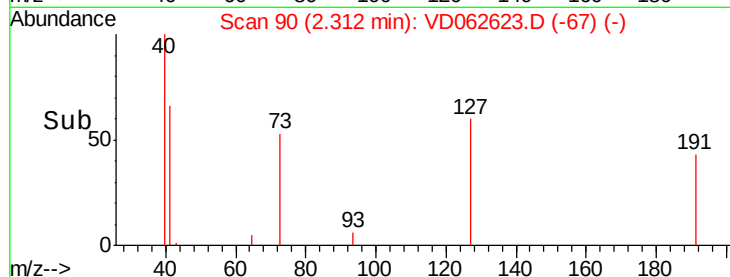
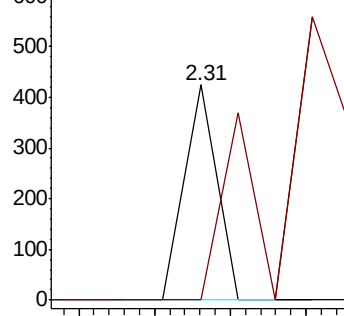
64 100

66 0.0 28.4 42.6#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#8

Diethyl Ether

Concen: 2.236 ug/l

RT: 2.86 min Scan# 146

Delta R.T. -0.02 min

Lab File: VD062623.D

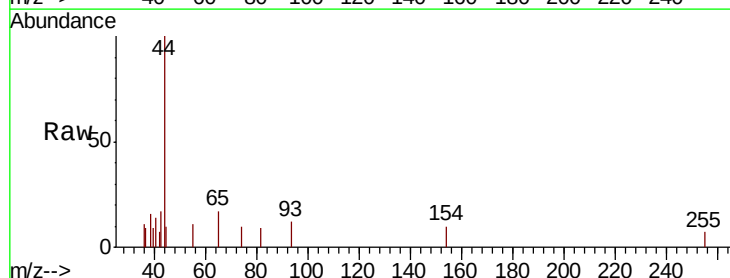
Acq: 6 Jun 2019 13:10

Tgt Ion: 74 Resp: 250

Ion Ratio Lower Upper

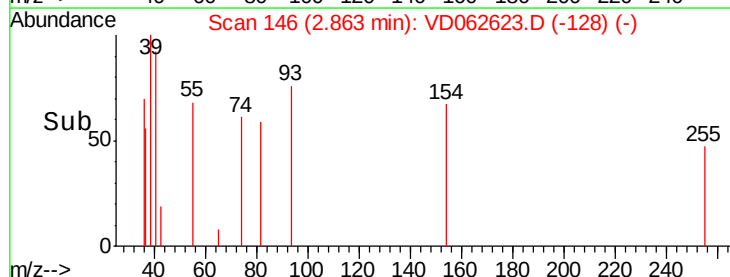
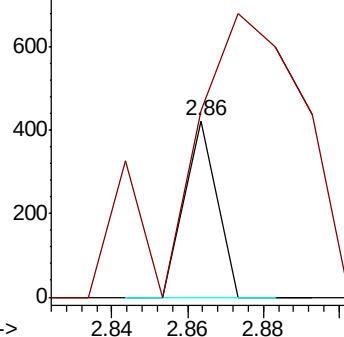
74 100

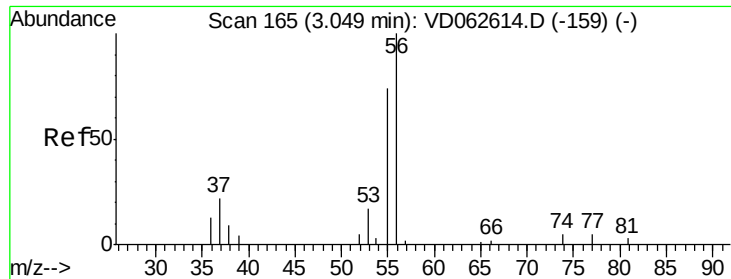
45 105.9 75.6 226.8



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#13

Acrolein

Concen: 29.749 ug/l

RT: 3.10 min Scan# 170

Delta R.T. 0.05 min

Lab File: VD062623.D

Acq: 6 Jun 2019 13:10

Instrument :

MSVOA_D

ClientSampleId :

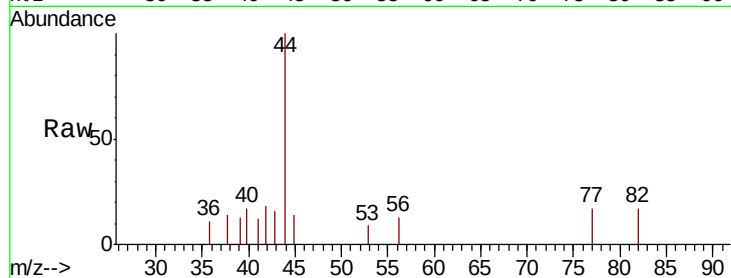
RBR-200035

Tot Ion: 56 Resp: 263

Ion Ratio Lower Upper

56 100

55 0.0 61.4 92.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.10

400

300

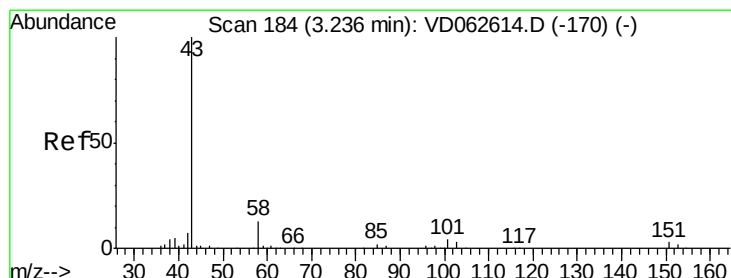
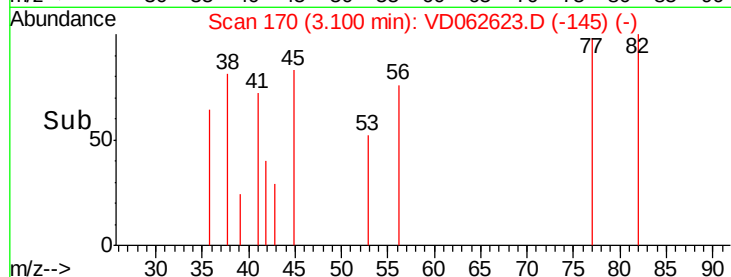
200

100

0

3.08 3.10 3.12

Time-->



#16

Acetone

Concen: 244.920 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.00 min

Lab File: VD062623.D

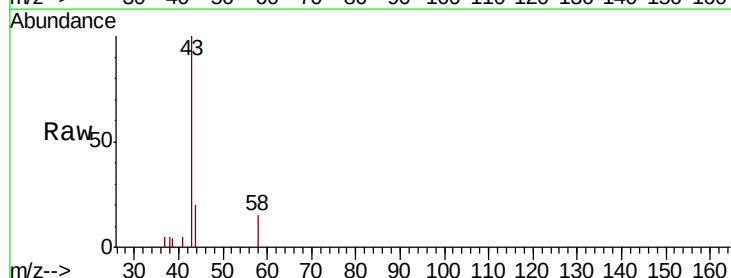
Acq: 6 Jun 2019 13:10

Tgt Ion: 43 Resp: 24574

Ion Ratio Lower Upper

43 100

58 15.4 10.7 16.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.24

10000

8000

6000

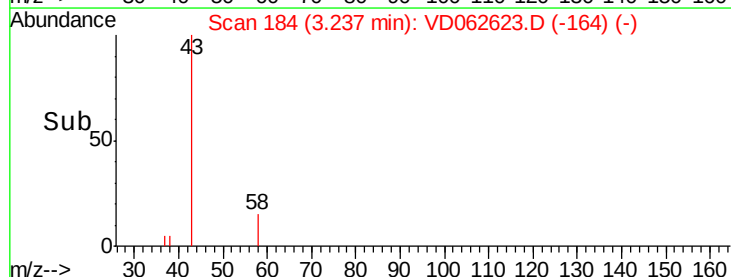
4000

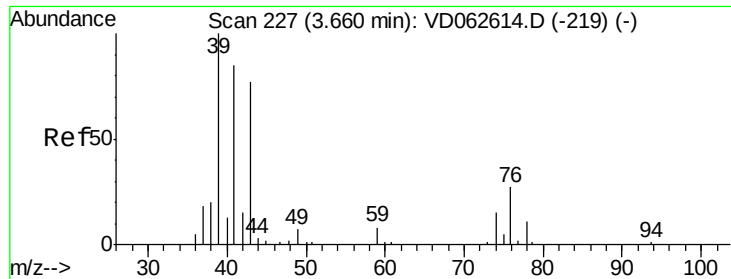
2000

0

3.20 3.24 3.30

Time-->

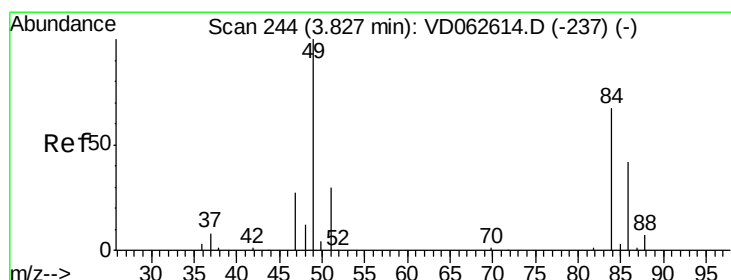
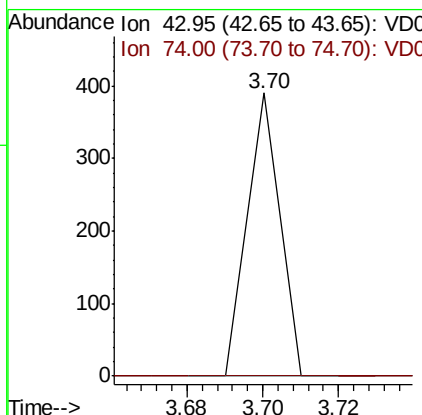
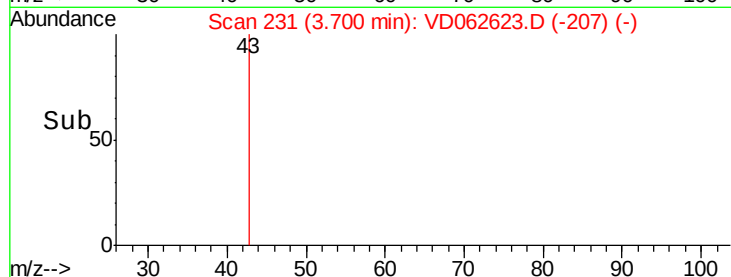
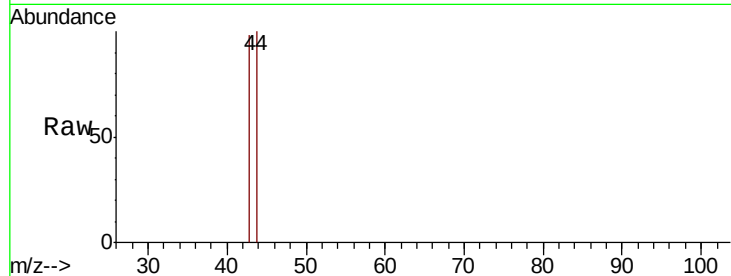




#18
Methyl Acetate
Concen: 1.289 ug/l
RT: 3.70 min Scan# 231
Delta R.T. 0.04 min
Lab File: VD062623.D
Acq: 6 Jun 2019 13:10

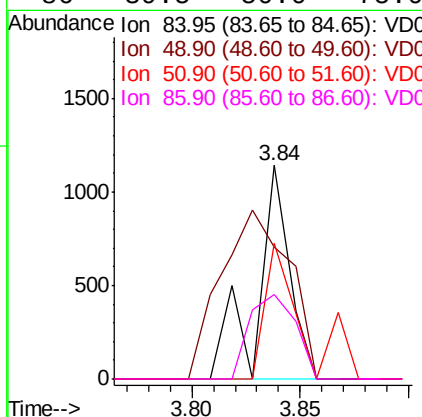
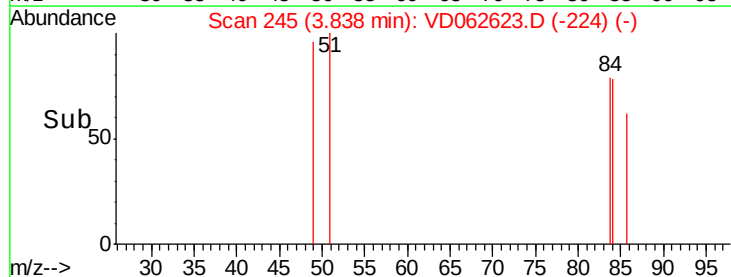
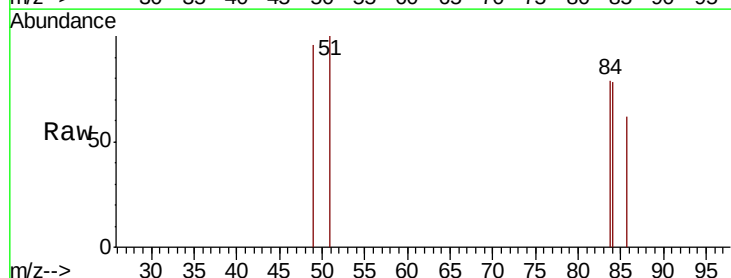
Instrument :
MSVOA_D
ClientSampleId :
RBR-200035

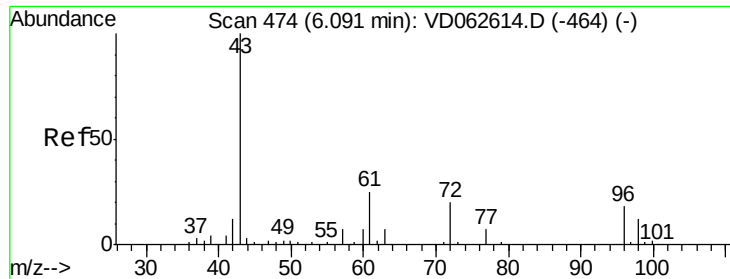
Tot Ion: 43 Resp: 230
Ion Ratio Lower Upper
43 100
74 0.0 15.5 23.3#



#20
Methylene Chloride
Concen: 3.032 ug/l
RT: 3.84 min Scan# 245
Delta R.T. 0.01 min
Lab File: VD062623.D
Acq: 6 Jun 2019 13:10

Tgt Ion: 84 Resp: 1184
Ion Ratio Lower Upper
84 100
49 61.5 119.0 178.6#
51 63.7 35.4 53.2#
86 39.5 50.0 75.0#





#25

2-Butanone

Concen: 2.014 ug/l

RT: 6.10 min Scan# 475

Delta R.T. 0.01 min

Lab File: VD062623.D

Acq: 6 Jun 2019 13:10

Instrument :

MSVOA_D

ClientSampleId :

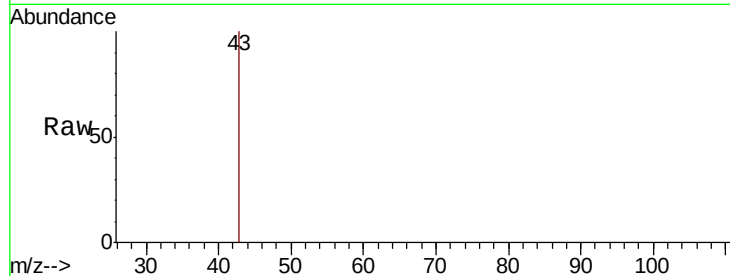
RBR-200035

Tot Ion: 43 Resp: 192

Ion Ratio Lower Upper

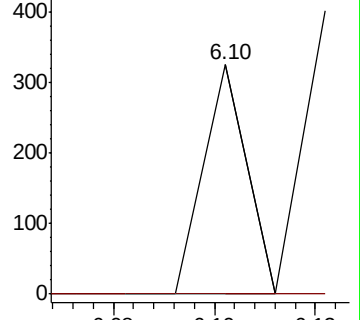
43 100

72 0.0 15.7 23.5#

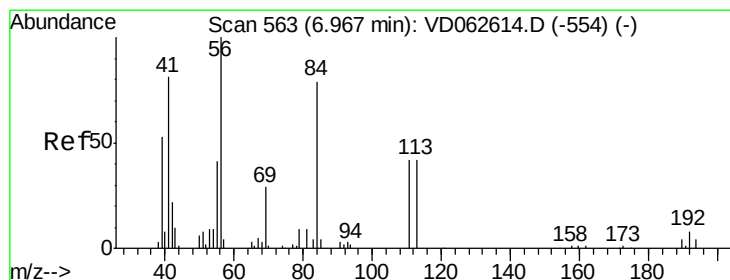
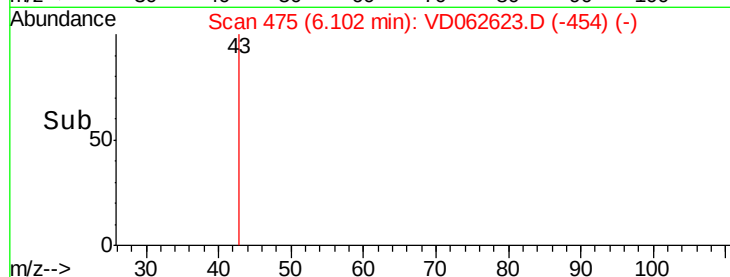


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time-->



#31

Cyclohexane

Concen: 1.364 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.08 min

Lab File: VD062623.D

Acq: 6 Jun 2019 13:10

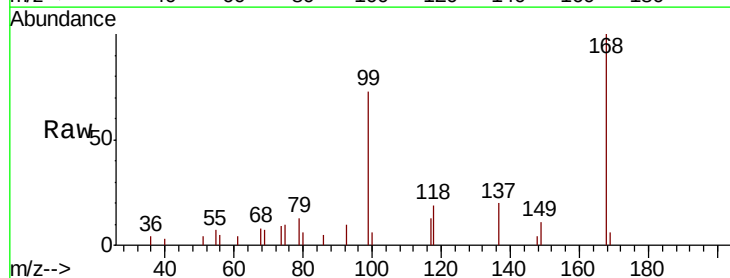
Tgt Ion: 56 Resp: 627

Ion Ratio Lower Upper

56 100

69 157.2 23.0 34.4#

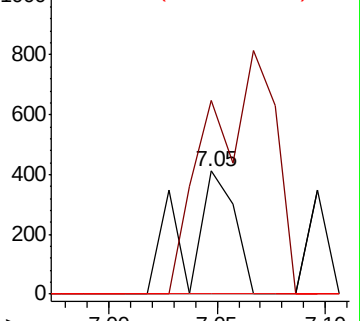
84 0.0 66.0 99.0#



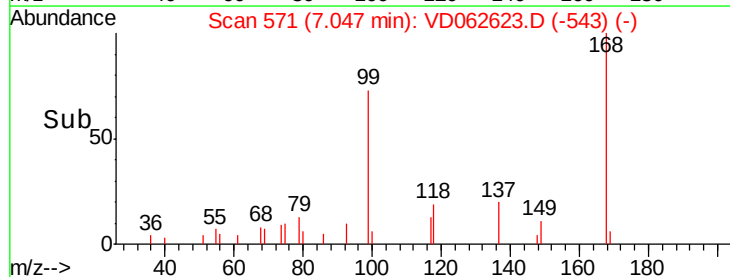
Abundance Ion 55.95 (55.65 to 56.65): VDC

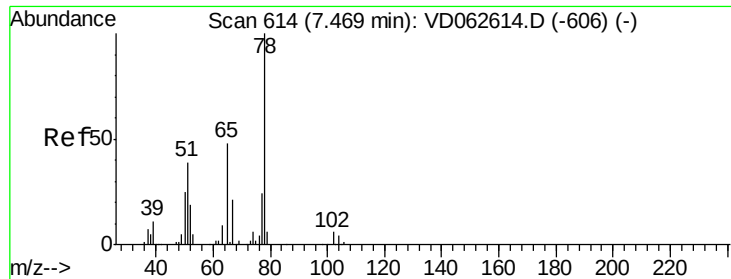
Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC



Time-->

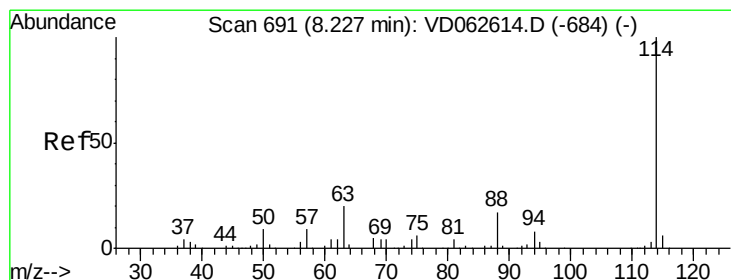
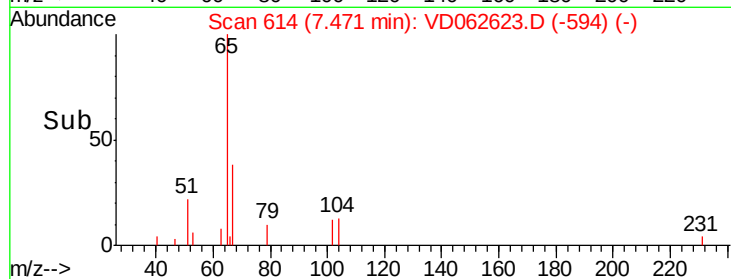
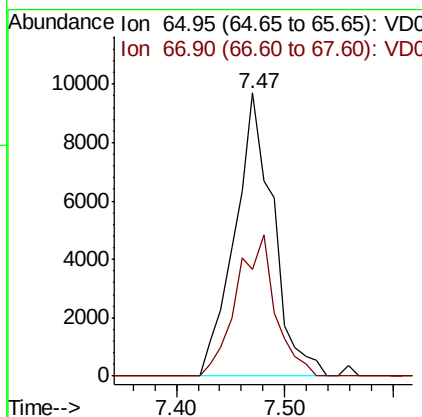
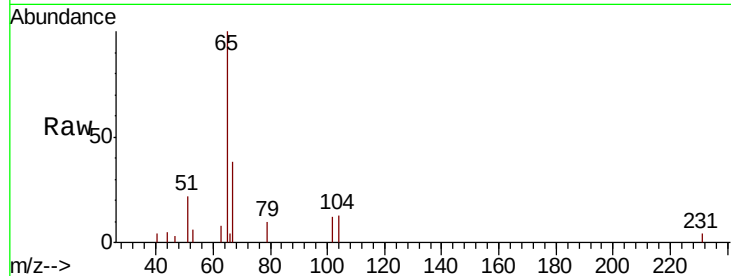




#33
 1,2-Dichloroethane-d4
 Concen: 42.989 ug/l
 RT: 7.47 min Scan# 614
 Delta R.T. 0.00 min
 Lab File: VD062623.D
 Acq: 6 Jun 2019 13:10

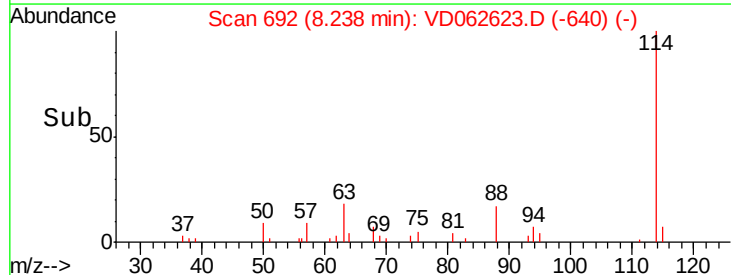
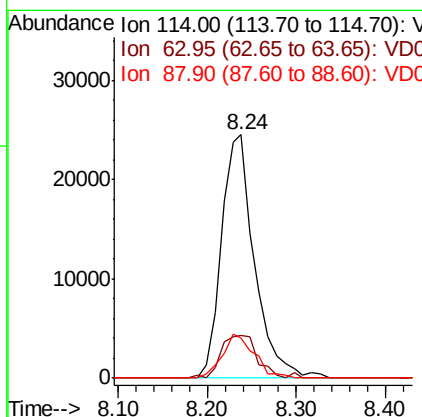
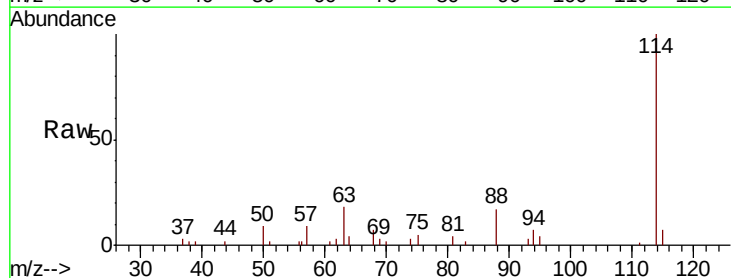
Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200035

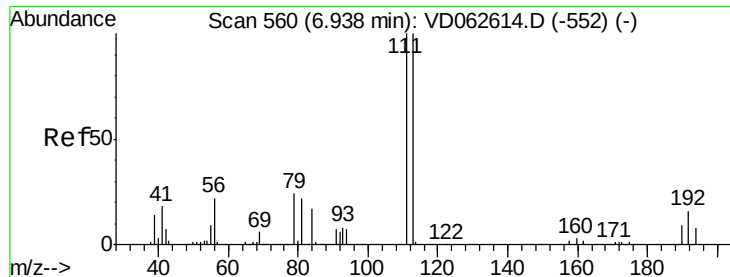
Tot Ion: 65 Resp: 24001
 Ion Ratio Lower Upper
 65 100
 67 37.8 0.0 86.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 692
 Delta R.T. 0.01 min
 Lab File: VD062623.D
 Acq: 6 Jun 2019 13:10

Tgt Ion: 114 Resp: 63555
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 41.0
 88 16.6 0.0 34.2





#35

Dibromofluoromethane

Concen: 31.839 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.00 min

Lab File: VD062623.D

Acq: 6 Jun 2019 13:10

Instrument :

MSVOA_D

ClientSampleId :

RBR-200035

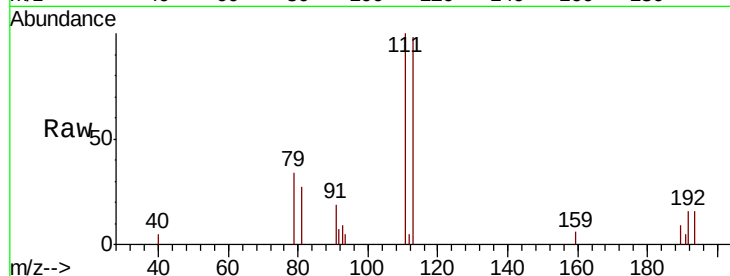
Tot Ion:113 Resp: 20566

Ion Ratio Lower Upper

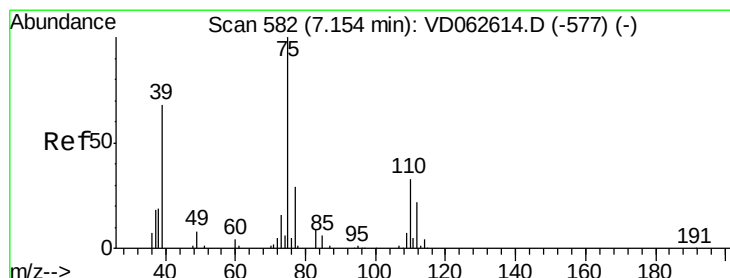
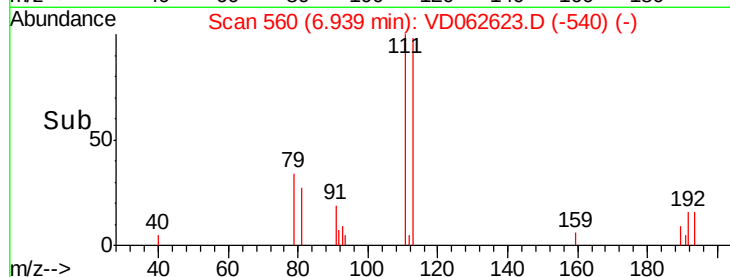
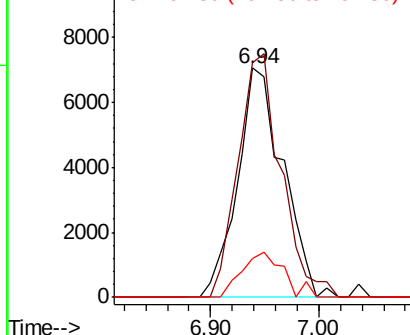
113 100

111 102.4 80.1 120.1

192 16.8 13.0 19.6



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: 4.547 ug/l

RT: 7.07 min Scan# 573

Delta R.T. -0.09 min

Lab File: VD062623.D

Acq: 6 Jun 2019 13:10

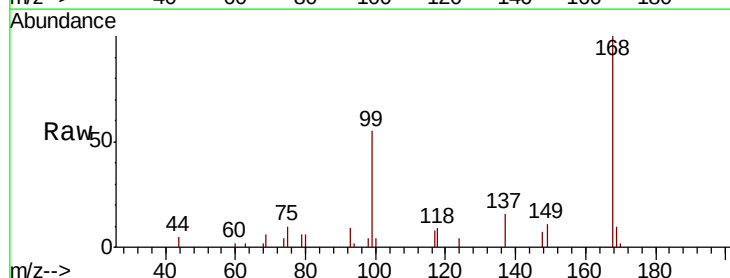
Tgt Ion: 75 Resp: 3107

Ion Ratio Lower Upper

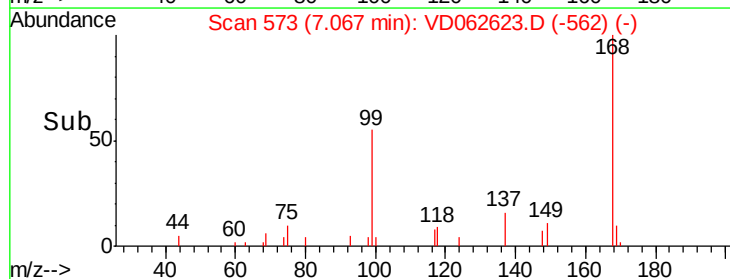
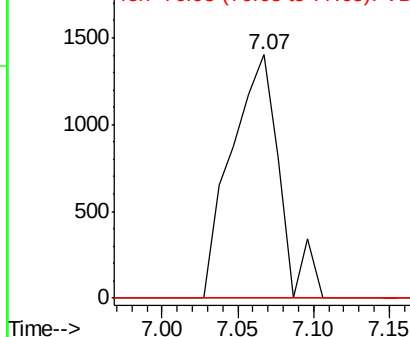
75 100

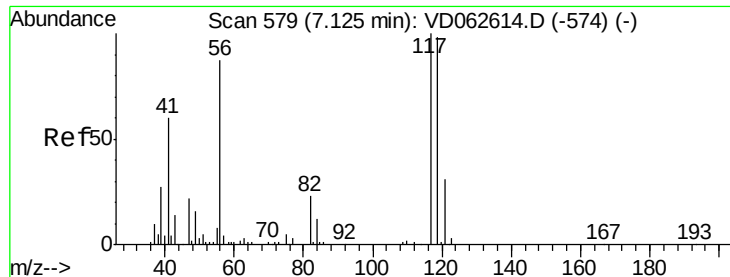
110 0.0 16.5 49.5#

77 0.0 23.3 34.9#



Abundance Ion 75.00 (74.70 to 75.70): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): V

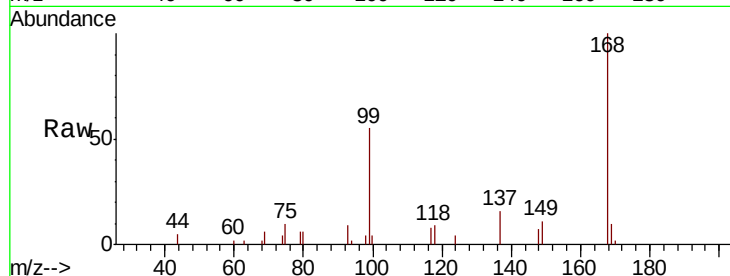




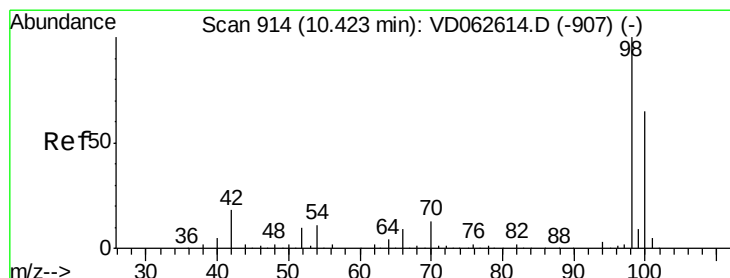
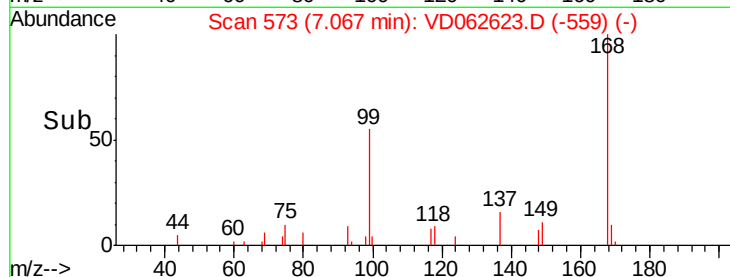
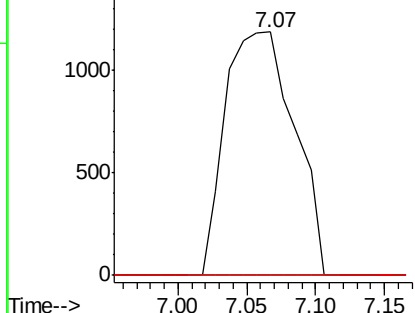
#38
Carbon Tetrachloride
Concen: 4.023 ug/l
RT: 7.07 min Scan# 573
Delta R.T. -0.06 min
Lab File: VD062623.D
Acq: 6 Jun 2019 13:10

Instrument :
MSVOA_D
ClientSampleId :
RBR-200035

Tot Ion:117 Resp: 4126
Ion Ratio Lower Upper
117 100
119 0.0 74.1 111.1#
121 0.0 23.5 35.3#

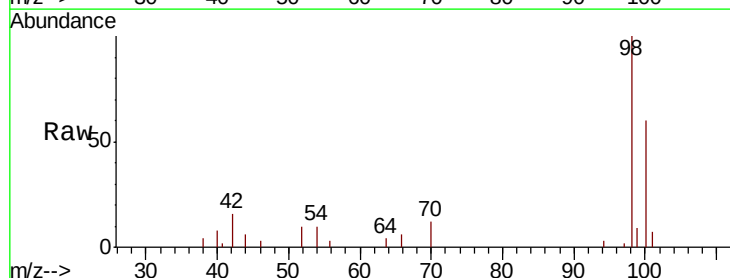


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

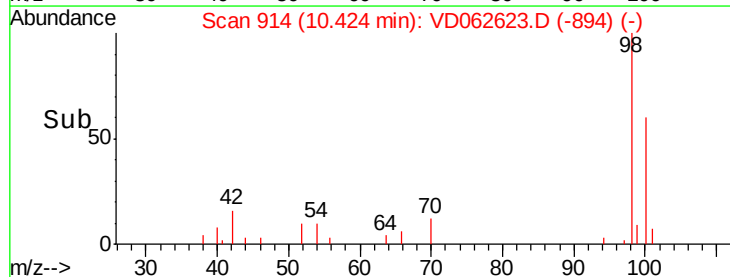
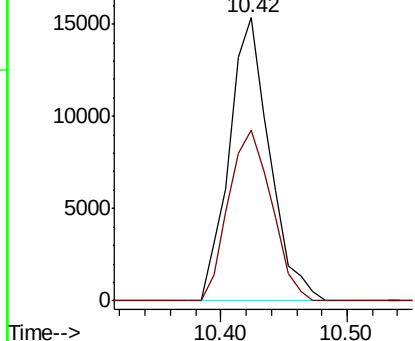


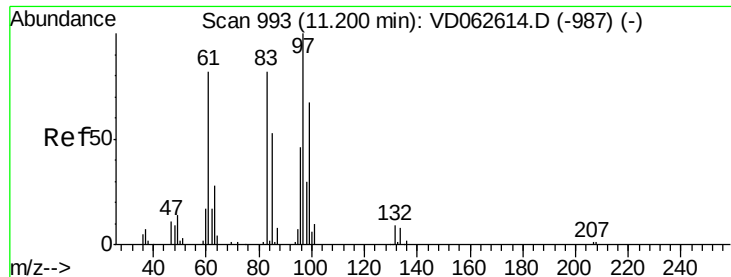
#50
Toluene-d8
Concen: 24.388 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD062623.D
Acq: 6 Jun 2019 13:10

Tgt Ion: 98 Resp: 33937
Ion Ratio Lower Upper
98 100
100 60.4 52.8 79.2



Abundance Ion 98.05 (97.75 to 98.75): V
Ion 100.05 (99.75 to 100.75): V





#55

1,1,2-Trichloroethane

Concen: 2.305 ug/l

RT: 11.27 min Scan# 1000

Delta R.T. 0.07 min

Lab File: VD062623.D

Acq: 6 Jun 2019 13:10

Instrument :

MSVOA_D

ClientSampleId :

RBR-200035

Tot Ion: 97 Resp: 708

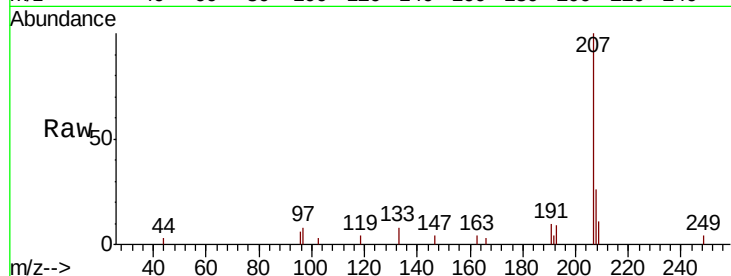
Ion Ratio Lower Upper

97 100

83 0.0 65.9 98.9#

85 0.0 42.6 63.8#

99 0.0 53.4 80.2#

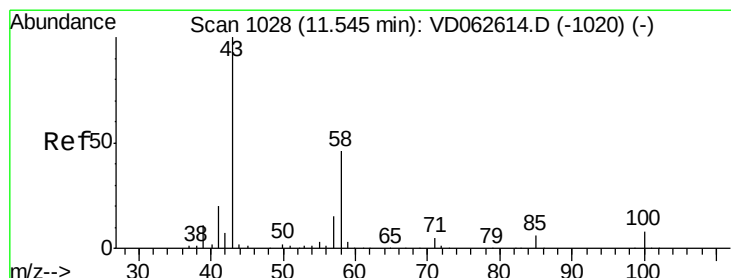
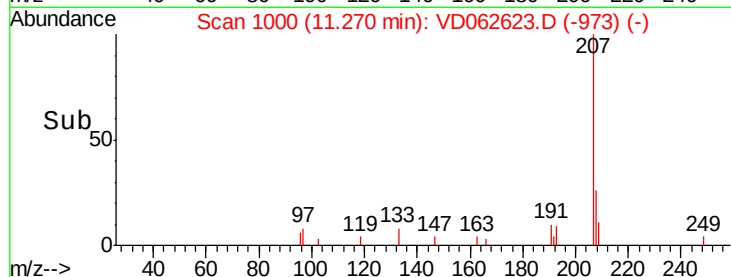
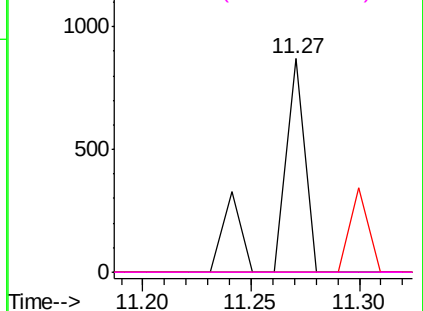


Abundance Ion 96.85 (96.55 to 97.55): VDC

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



#59

2-Hexanone

Concen: 1.021 ug/l

RT: 11.54 min Scan# 1027

Delta R.T. -0.01 min

Lab File: VD062623.D

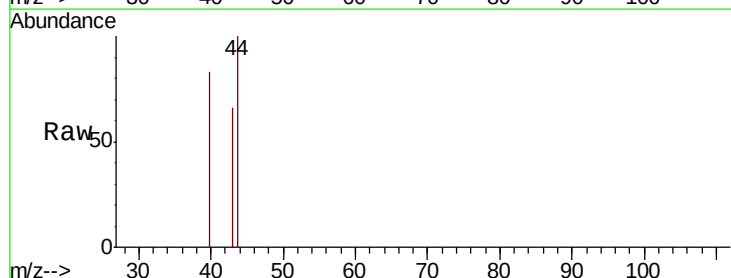
Acq: 6 Jun 2019 13:10

Tgt Ion: 43 Resp: 191

Ion Ratio Lower Upper

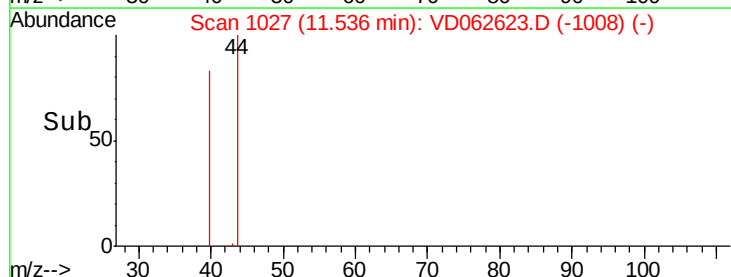
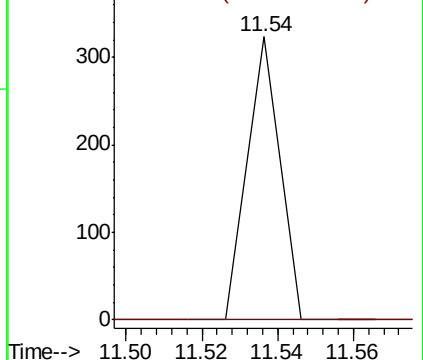
43 100

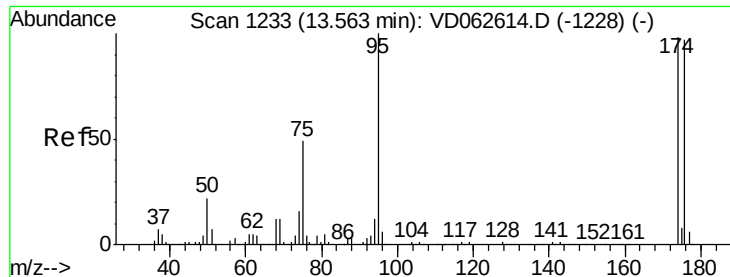
58 0.0 22.8 68.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: 27.461 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VD062623.D

Acq: 6 Jun 2019 13:10

Instrument :

MSVOA_D

ClientSampleId :

RBR-200035

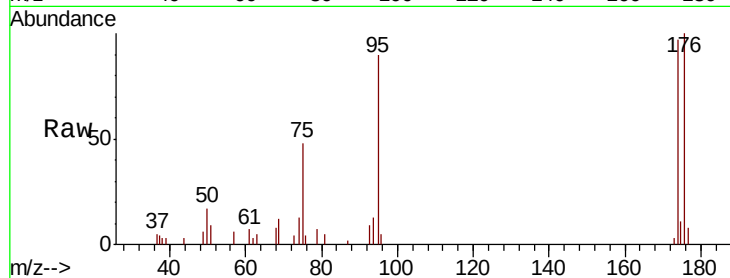
Tot Ion: 95 Resp: 18015

Ion Ratio Lower Upper

95 100

174 108.1 0.0 195.8

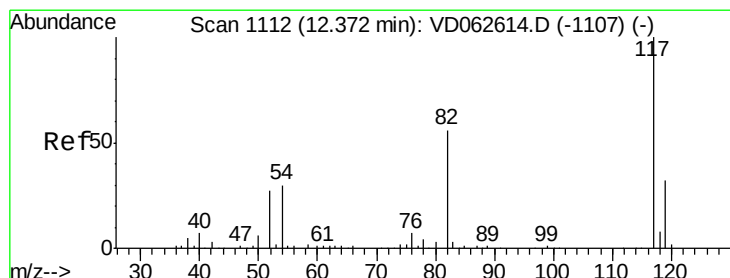
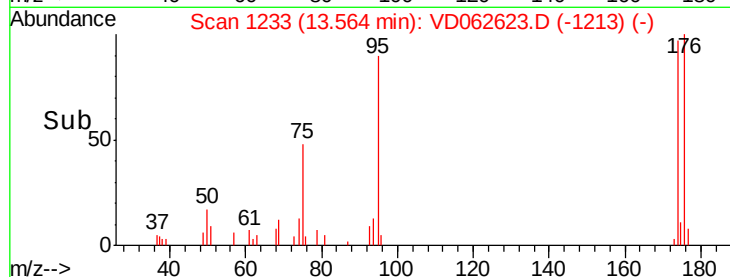
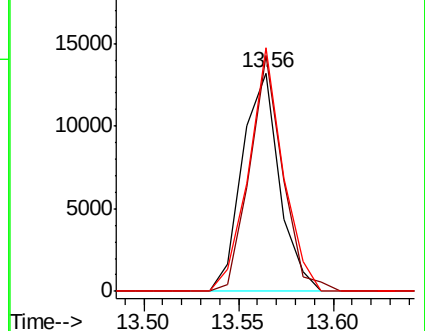
176 111.5 0.0 193.2



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: 12.37 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VD062623.D

Acq: 6 Jun 2019 13:10

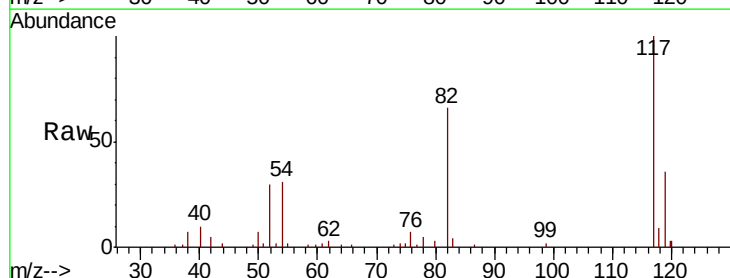
Tgt Ion: 117 Resp: 53638

Ion Ratio Lower Upper

117 100

82 65.6 45.0 67.6

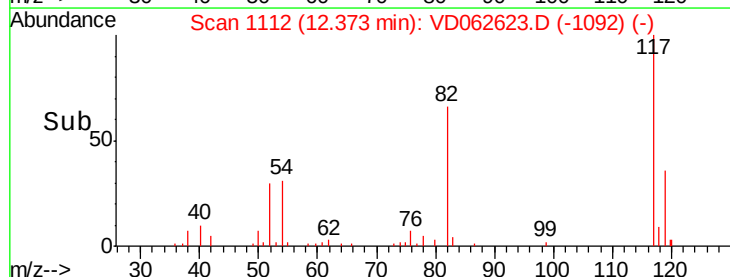
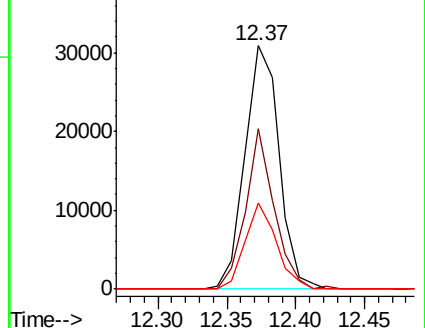
119 35.6 25.7 38.5

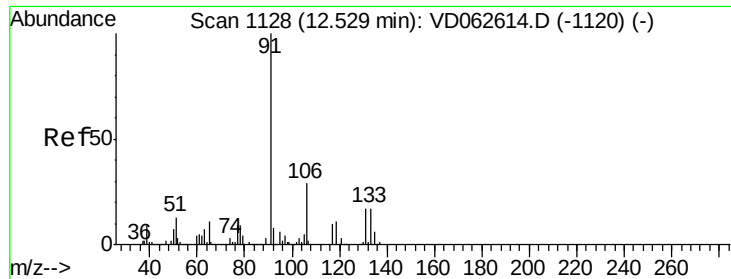


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

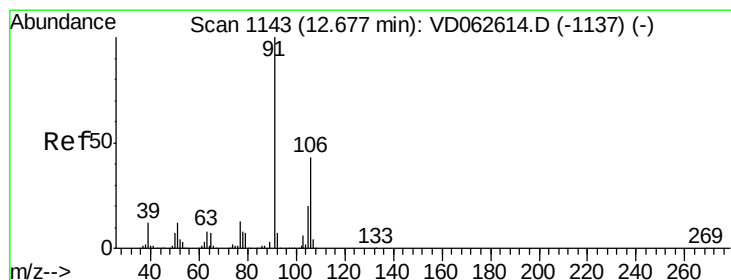
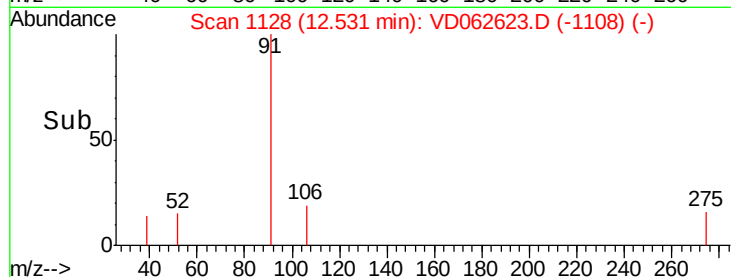
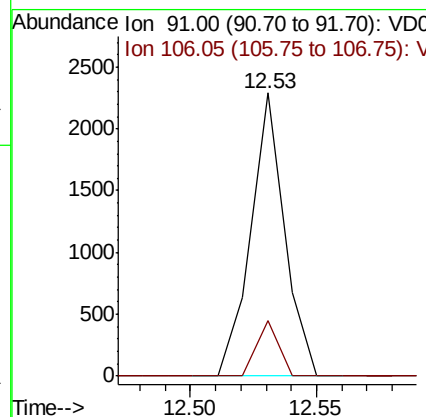
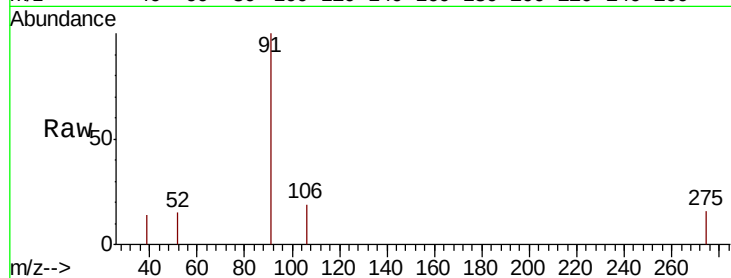




#67
Ethyl Benzene
Concen: 1.056 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VD062623.D
Acq: 6 Jun 2019 13:10

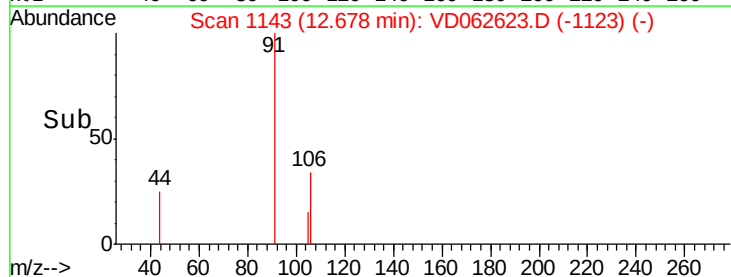
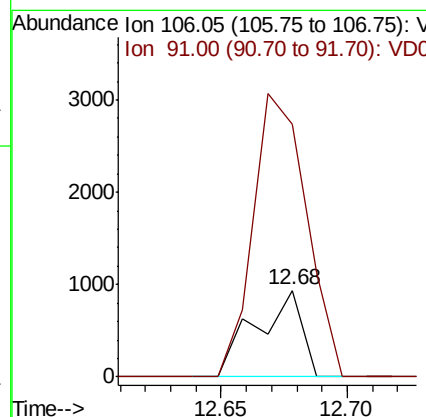
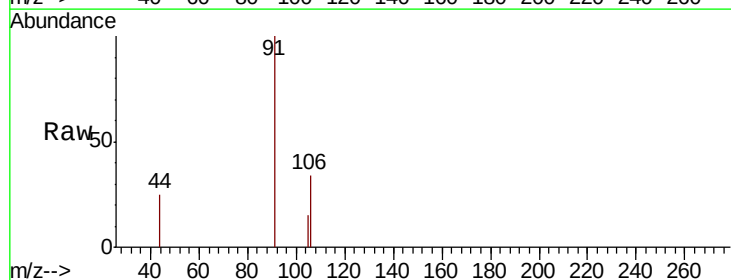
Instrument :
MSVOA_D
ClientSampleId :
RBR-200035

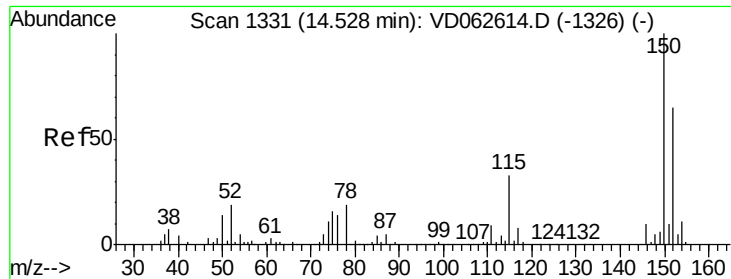
Tot Ion: 91 Resp: 2128
Ion Ratio Lower Upper
91 100
106 19.4 23.0 34.4#



#68
m/p-Xylenes
Concen: 1.708 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.00 min
Lab File: VD062623.D
Acq: 6 Jun 2019 13:10

Tgt Ion: 106 Resp: 1200
Ion Ratio Lower Upper
106 100
91 292.5 184.1 276.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD062623.D

Acq: 6 Jun 2019 13:10

Instrument :

MSVOA_D

ClientSampleId :

RBR-200035

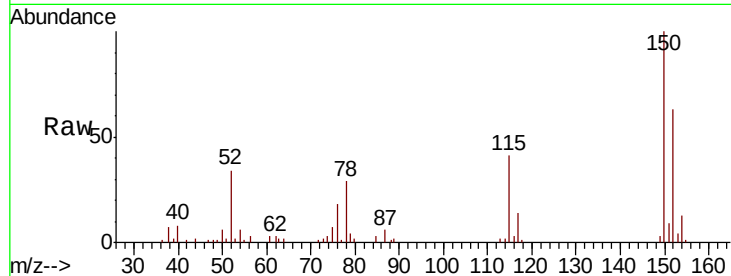
Tot Ion:152 Resp: 29926

Ion Ratio Lower Upper

152 100

115 64.0 27.1 81.3

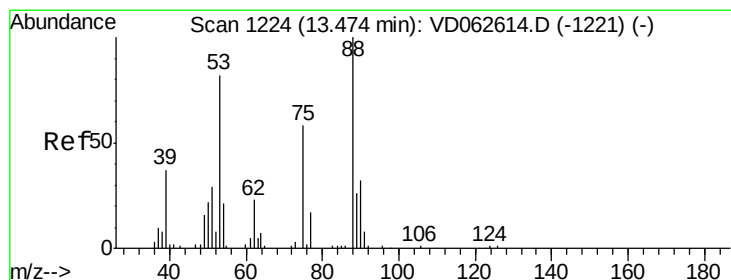
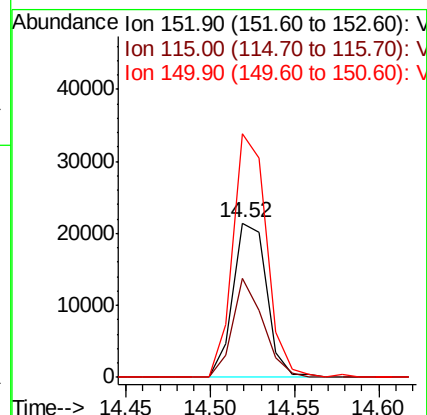
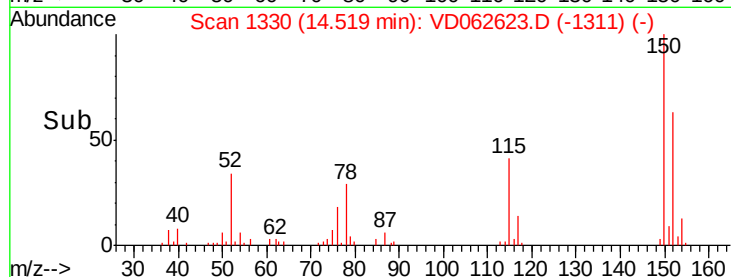
150 157.8 0.0 315.0



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



#81

trans-1,4-Dichloro-2-butene

Concen: 102.736 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062623.D

Acq: 6 Jun 2019 13:10

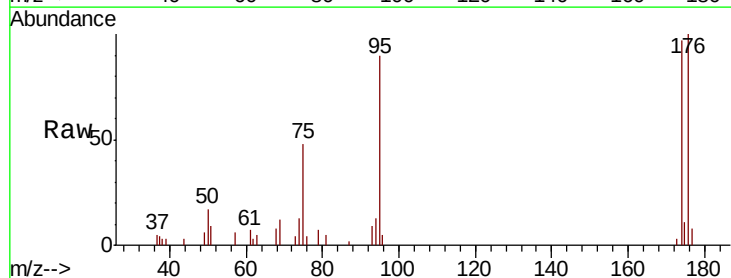
Tgt Ion: 75 Resp: 10309

Ion Ratio Lower Upper

75 100

53 0.0 113.2 169.8#

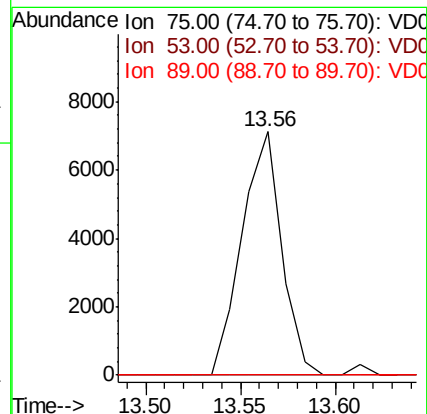
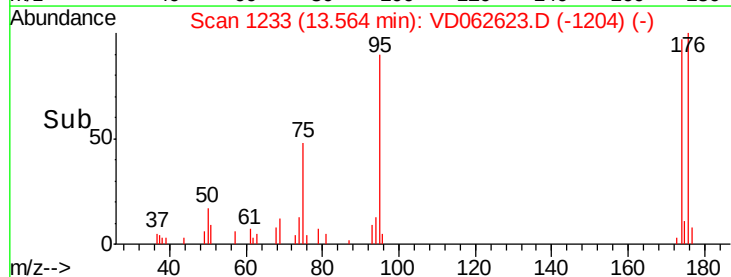
89 0.0 36.9 55.3#

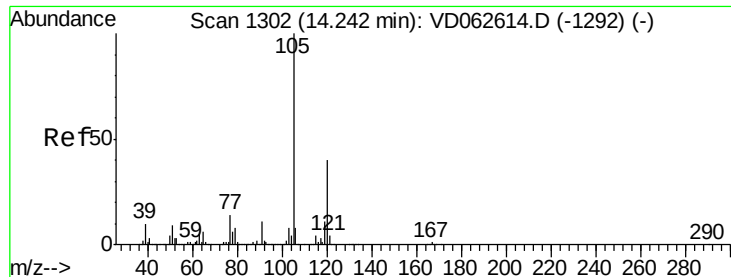


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

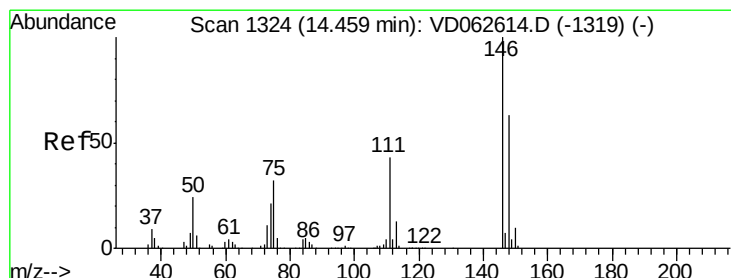
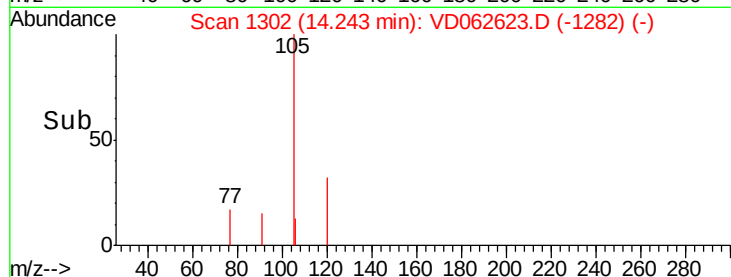
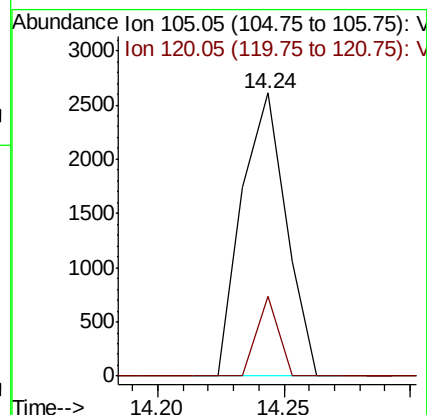
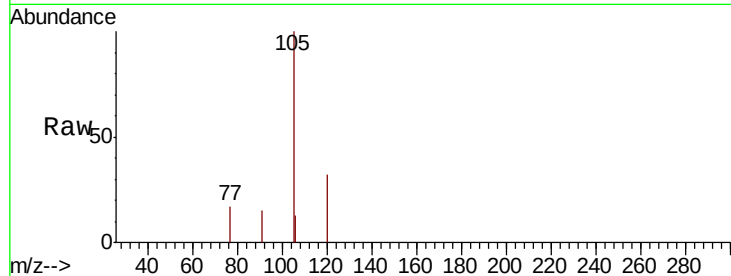




#84
 1,2,4-Trimethylbenzene
 Concen: 1.739 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.00 min
 Lab File: VD062623.D
 Acq: 6 Jun 2019 13:10

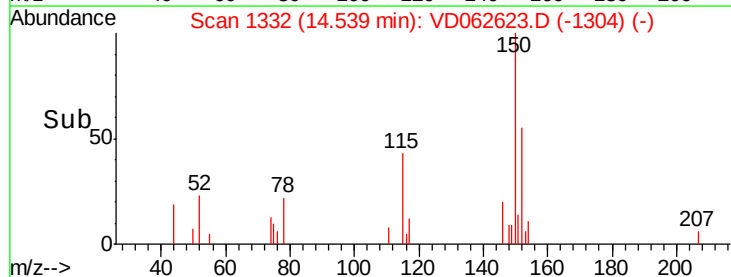
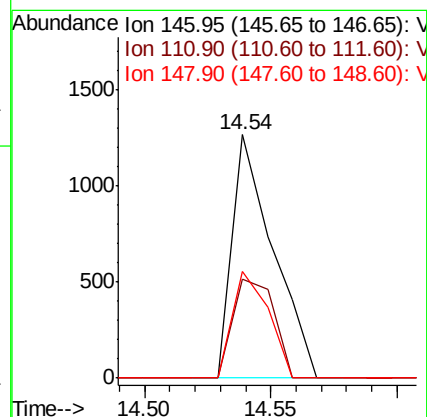
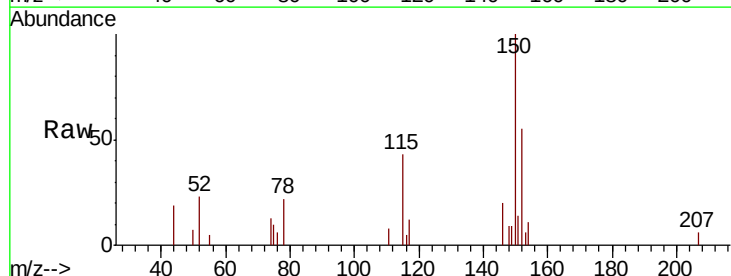
Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200035

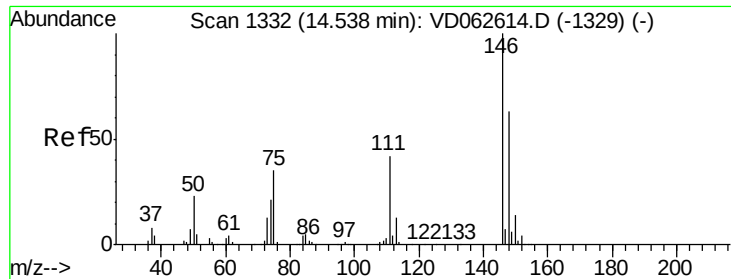
Tot Ion:105 Resp: 3188
 Ion Ratio Lower Upper
 105 100
 120 28.4 19.9 59.7



#87
 1,3-Dichlorobenzene
 Concen: 1.465 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. 0.08 min
 Lab File: VD062623.D
 Acq: 6 Jun 2019 13:10

Tgt Ion:146 Resp: 1423
 Ion Ratio Lower Upper
 146 100
 111 40.5 21.6 64.6
 148 43.6 31.3 93.8

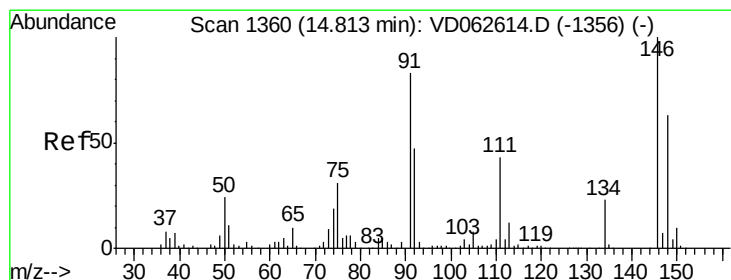
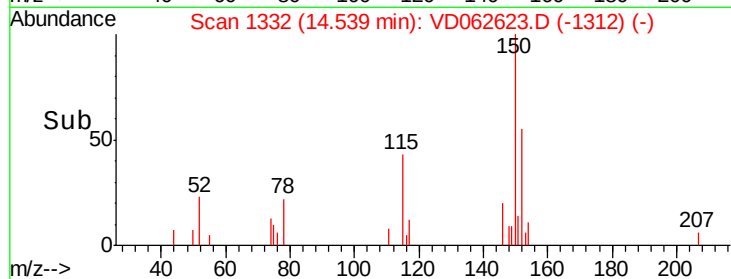
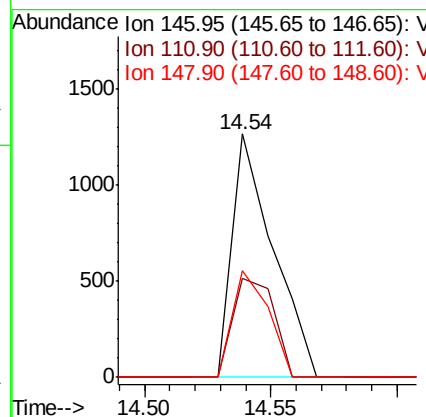
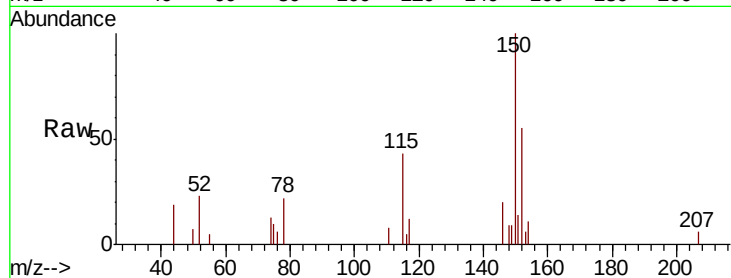




#88
 1,4-Dichlorobenzene
 Concen: 1.446 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. 0.00 min
 Lab File: VD062623.D
 Acq: 6 Jun 2019 13:10

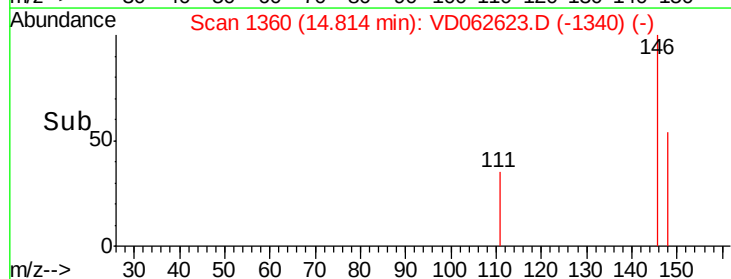
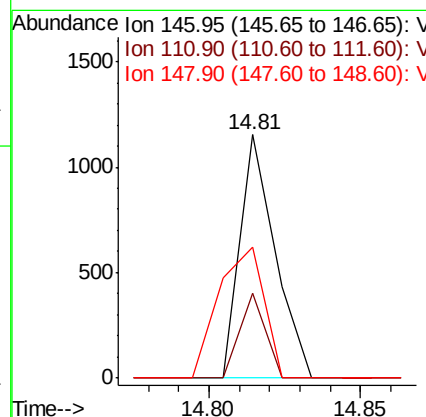
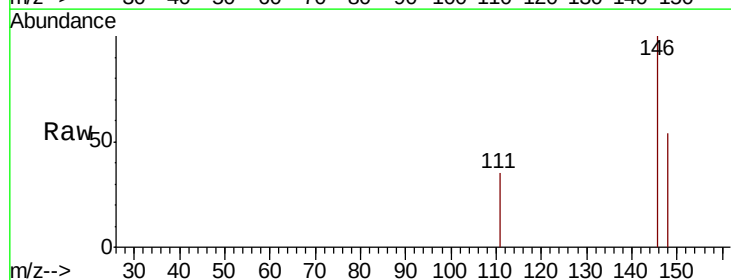
Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200035

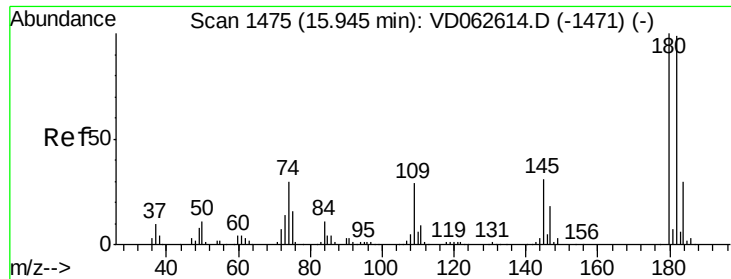
Tot Ion:146 Resp: 1423
 Ion Ratio Lower Upper
 146 100
 111 40.5 20.9 62.8
 148 43.6 31.5 94.5



#91
 1,2-Dichlorobenzene
 Concen: 1.044 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.00 min
 Lab File: VD062623.D
 Acq: 6 Jun 2019 13:10

Tgt Ion:146 Resp: 936
 Ion Ratio Lower Upper
 146 100
 111 35.0 21.3 64.0
 148 53.7 31.4 94.3

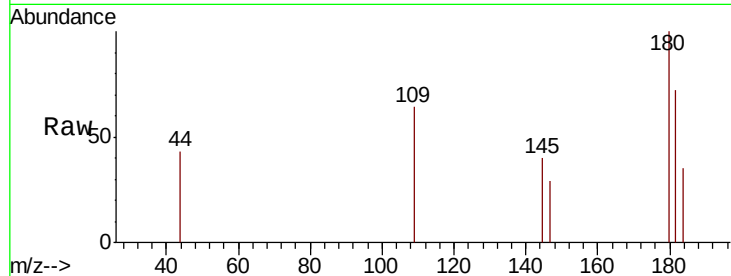




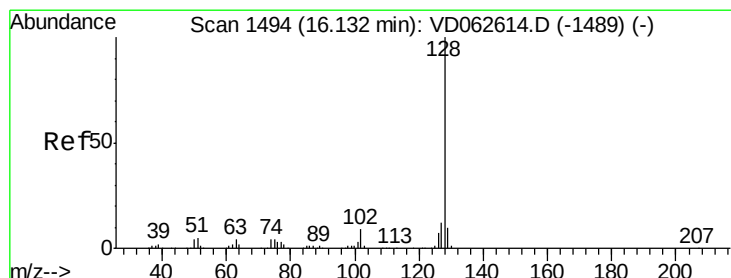
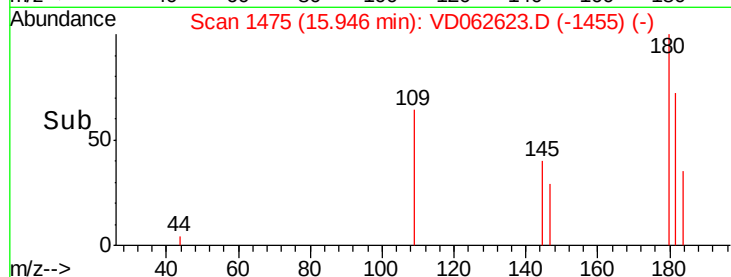
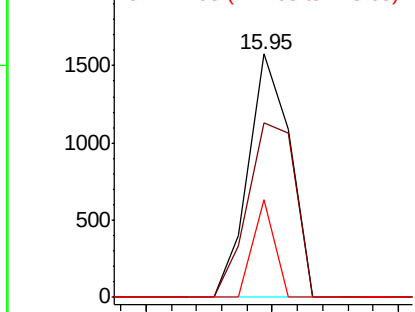
#93
 1,2,4-Trichlorobenzene
 Concen: 2.813 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD062623.D
 Acq: 6 Jun 2019 13:10

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200035

Tot Ion:180 Resp: 1813
 Ion Ratio Lower Upper
 180 100
 182 71.8 49.3 147.8
 145 40.3 15.7 47.1

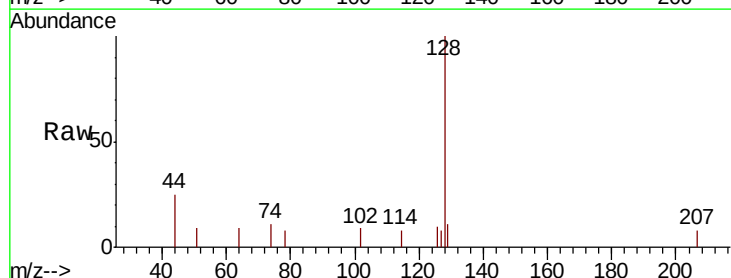


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

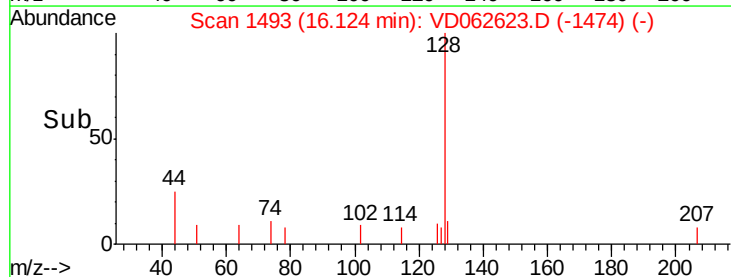
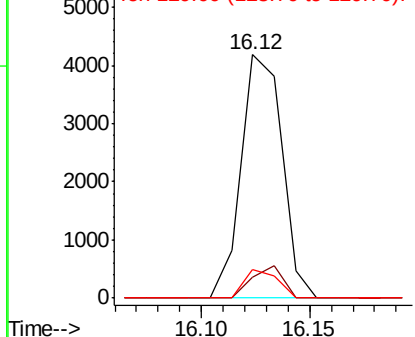


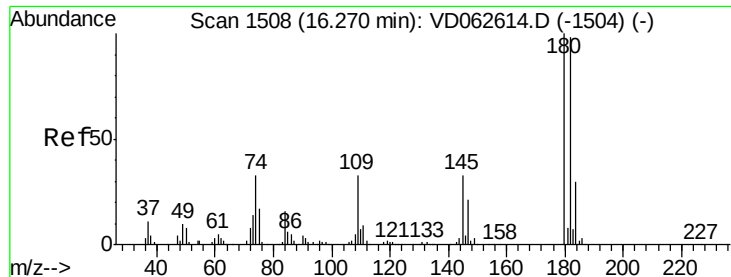
#95
 Naphthalene
 Concen: 5.952 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VD062623.D
 Acq: 6 Jun 2019 13:10

Tgt Ion:128 Resp: 5493
 Ion Ratio Lower Upper
 128 100
 127 8.4 9.4 14.2#
 129 11.5 8.0 12.0



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





#96
 1,2,3-Trichlorobenzene
 Concen: 3.314 ug/l
 RT: 16.27 min Scan# 1508
 Delta R.T. 0.00 min
 Lab File: VD062623.D
 Acq: 6 Jun 2019 13:10

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200035

Tot Ion:	180	Resp:	1633
Ion Ratio	Lower	Upper	
180	100		
182	96.9	49.1	147.3
145	24.2	16.6	49.7

