

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051419\
 Data File : VD062379.D
 Acq On : 15 May 2019 7:41
 Operator : FY/SY
 Sample : K2779-05
 Misc : 8.27g/5mL/MSVOA D/SOIL
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200052

Quant Time: May 15 08:54:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	178176	50.00	ug/l	0.05
34) 1,4-Difluorobenzene	8.24	114	282366	50.00	ug/l	0.05
63) Chlorobenzene-d5	12.38	117	227055	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	14.53	152	110358	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	149043	90.01	ug/l	0.04
Spiked Amount			Recovery	=	180.02%	
35) Dibromofluoromethane	6.95	113	121397	51.82	ug/l	0.05
Spiked Amount			Recovery	=	103.64%	
50) Toluene-d8	10.42	98	158879	28.13	ug/l	0.03
Spiked Amount			Recovery	=	56.26%	
62) 4-Bromofluorobenzene	13.56	95	99639	43.93	ug/l	0.02
Spiked Amount			Recovery	=	87.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	1029	3.629	ug/l #	12
8) Diethyl Ether	2.88	74	853	1.880	ug/l	87
11) Tert butyl alcohol	4.08	59	409	4.839	ug/l #	76
16) Acetone	3.24	43	40968	117.981	ug/l #	85
18) Methyl Acetate	3.66	43	3751	5.771	ug/l #	53
20) Methylene Chloride	3.85	84	11716	8.081	ug/l #	83
25) 2-Butanone	6.18	43	1170	3.089	ug/l #	56
31) Cyclohexane	7.07	56	4097	2.358	ug/l #	8
36) 1,1-Dichloropropene	7.07	75	14358	6.202	ug/l #	47
37) Ethyl Acetate	6.18	43	1170	1.192	ug/l #	16
38) Carbon Tetrachloride	7.07	117	18626	5.813	ug/l #	16
51) 4-Methyl-2-Pentanone	10.42	43	928	1.037	ug/l #	1
76) 1,2,3-Trichloropropane	13.56	75	43462	33.139	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.56	75	44798	120.995	ug/l #	16

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051419\
Data File : VD062379.D
Acq On : 15 May 2019 7:41
Operator : FY/SY
Sample : K2779-05
Misc : 8.27g/5mL/MSVOA D/SOIL
ALS Vial : 45 Sample Multiplier: 1



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.05 min

Lab File: VD062379.D

Acq: 15 May 2019 7:41

Instrument :

MSVOA_D

ClientSampleId :

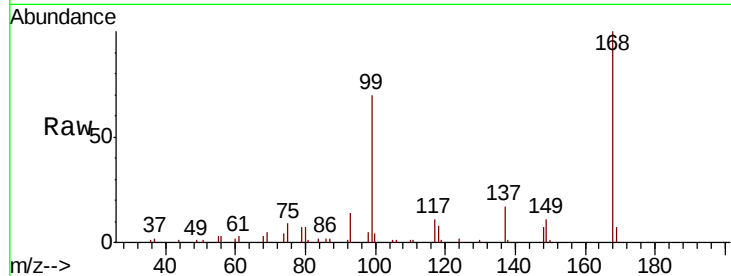
RBR-200052

Tot Ion:168 Resp: 178176

Ion Ratio Lower Upper

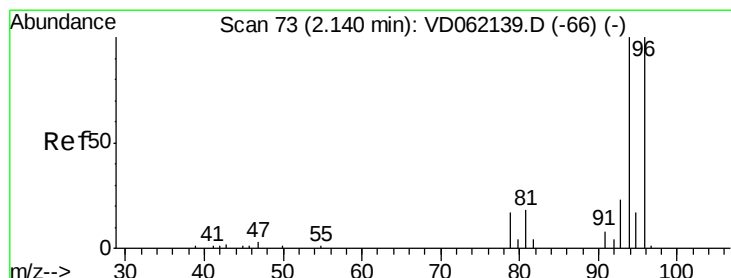
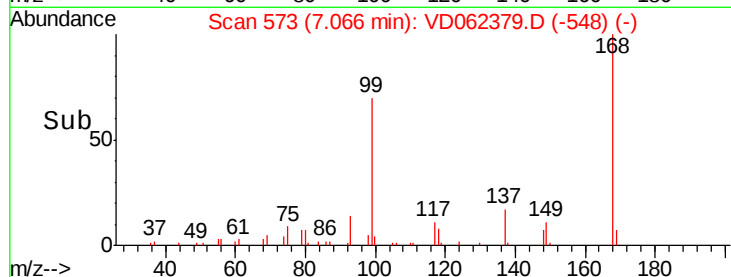
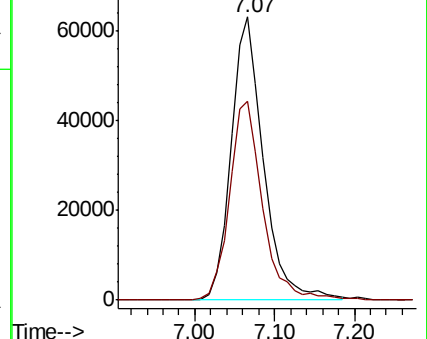
168 100

99 70.3 46.5 69.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 3.629 ug/l

RT: 2.18 min Scan# 76

Delta R.T. 0.04 min

Lab File: VD062379.D

Acq: 15 May 2019 7:41

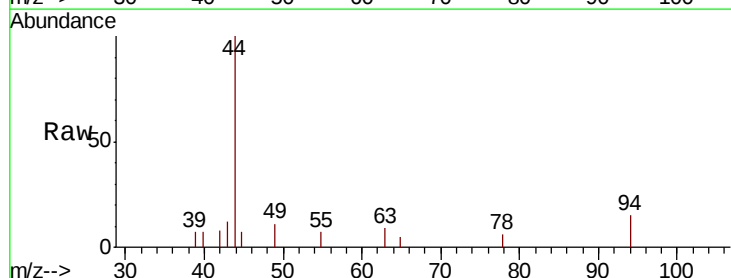
Tgt Ion: 94 Resp: 1029

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

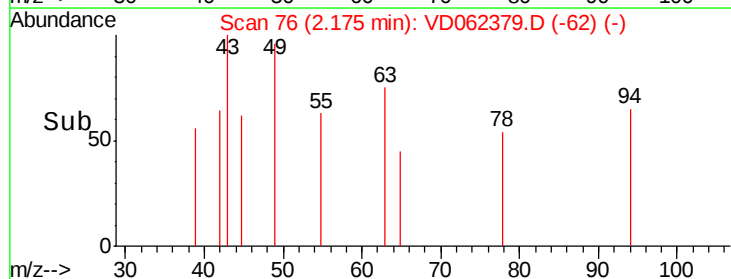
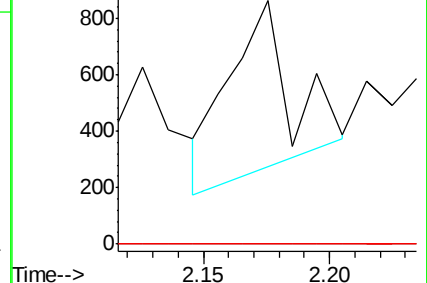
93 0.0 18.5 27.7#

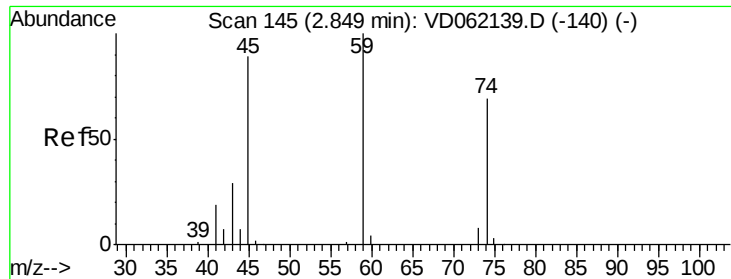


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#8

Diethyl Ether

Concen: 1.880 ug/l

RT: 2.88 min Scan# 148

Delta R.T. 0.04 min

Lab File: VD062379.D

Acq: 15 May 2019 7:41

Instrument :

MSVOA_D

ClientSampleId :

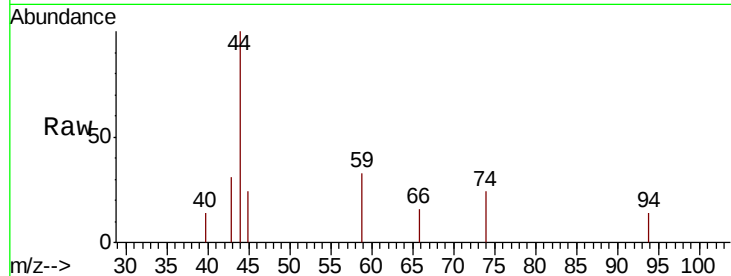
RBR-200052

Tot Ion: 74 Resp: 853

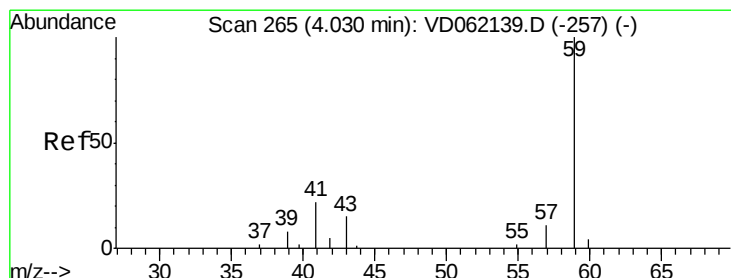
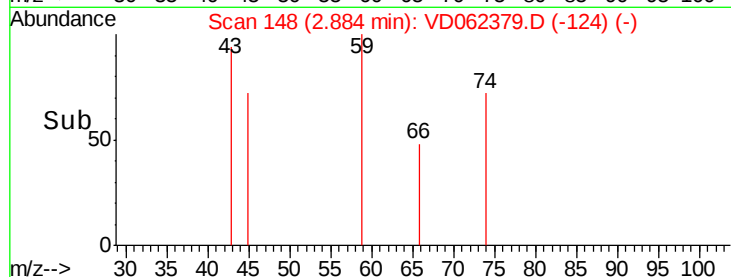
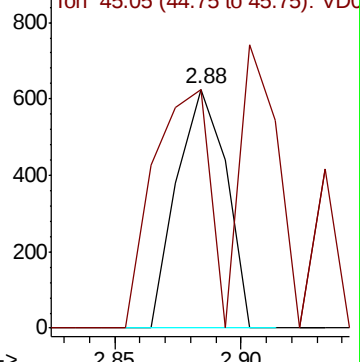
Ion Ratio Lower Upper

74 100

45 99.8 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC



#11

Tert butyl alcohol

Concen: 4.839 ug/l

RT: 4.08 min Scan# 270

Delta R.T. 0.05 min

Lab File: VD062379.D

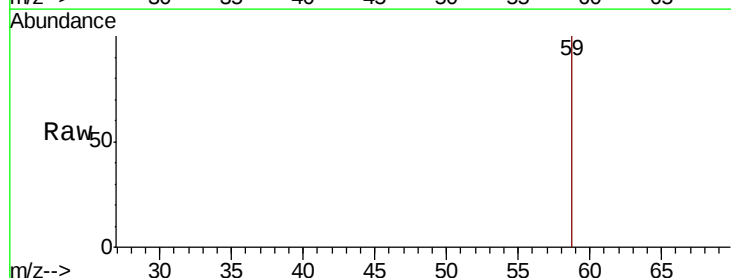
Acq: 15 May 2019 7:41

Tgt Ion: 59 Resp: 409

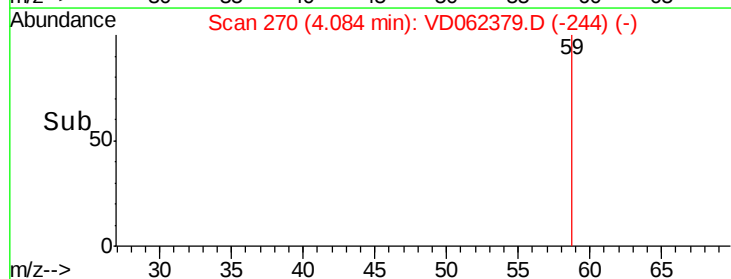
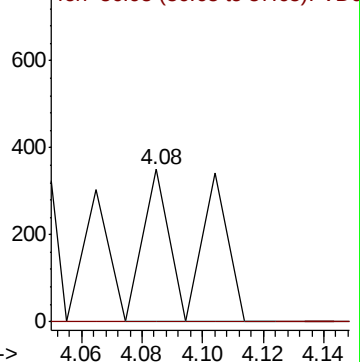
Ion Ratio Lower Upper

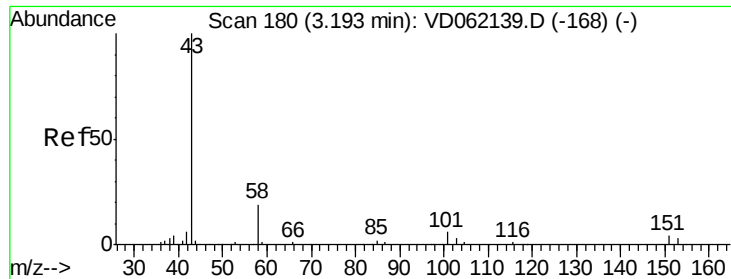
59 100

57 0.0 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC





#16

Acetone

Concen: 117.981 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.05 min

Lab File: VD062379.D

Acq: 15 May 2019 7:41

Instrument :

MSVOA_D

ClientSampleId :

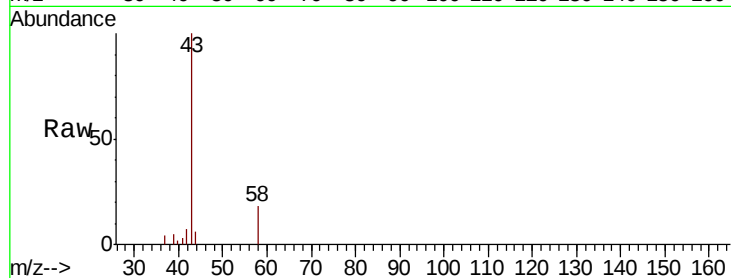
RBR-200052

Tot Ion: 43 Resp: 40968

Ion Ratio Lower Upper

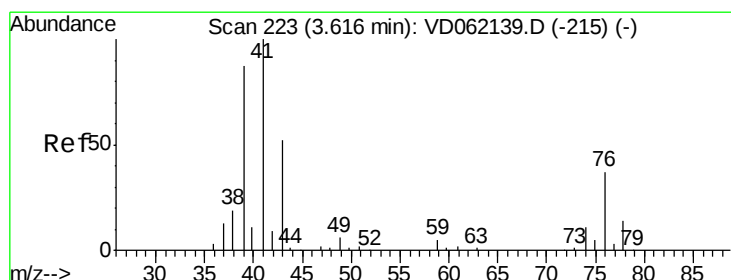
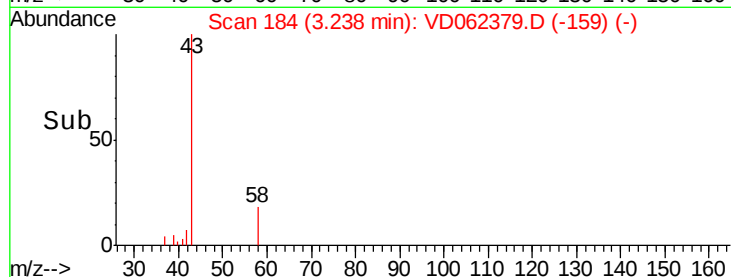
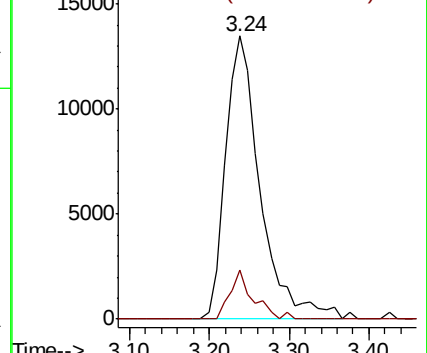
43 100

58 17.5 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 5.771 ug/l

RT: 3.66 min Scan# 227

Delta R.T. 0.05 min

Lab File: VD062379.D

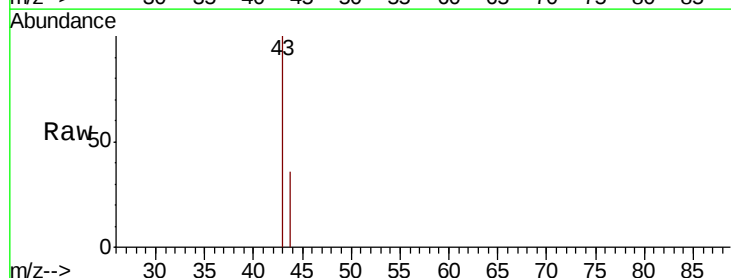
Acq: 15 May 2019 7:41

Tgt Ion: 43 Resp: 3751

Ion Ratio Lower Upper

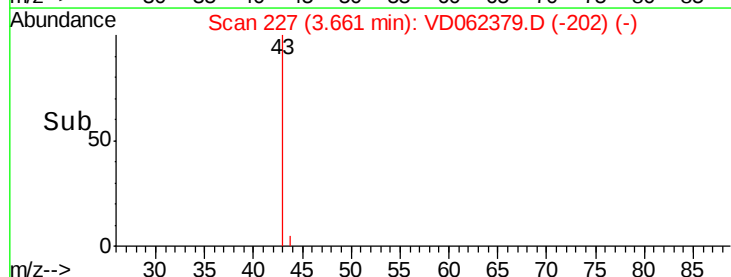
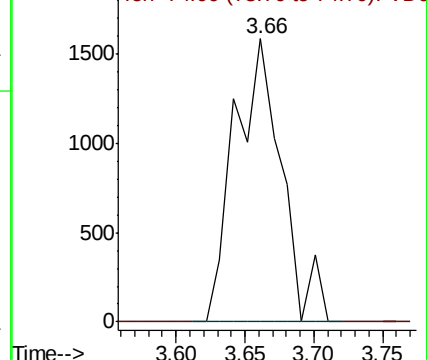
43 100

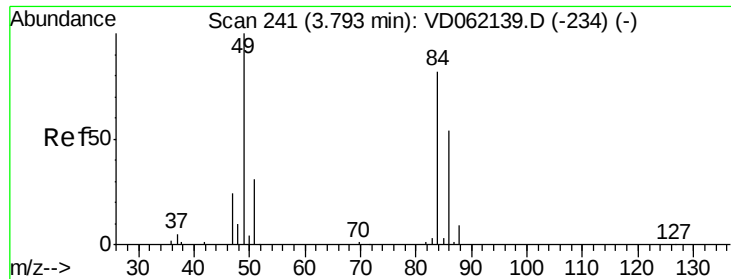
74 0.0 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

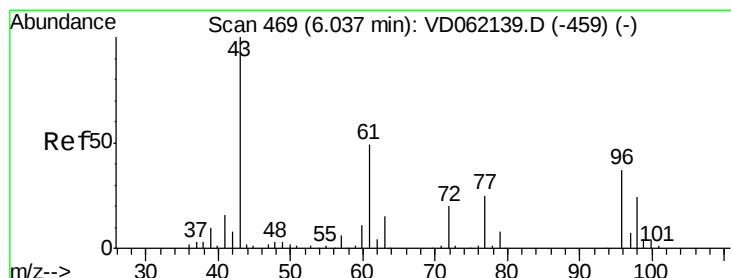
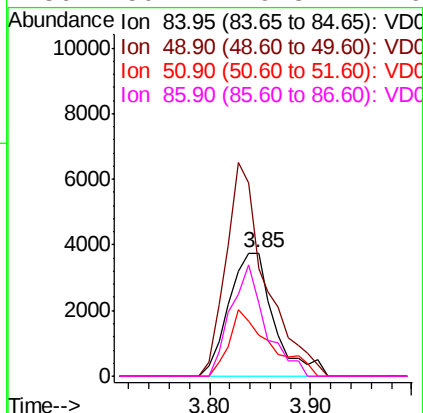
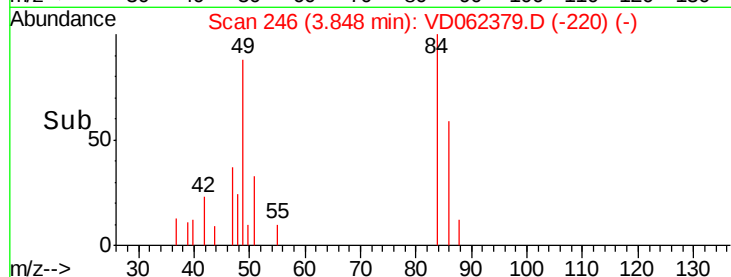
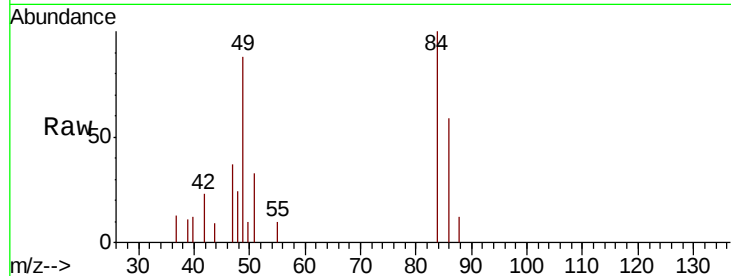




#20
Methvlene Chloride
Concen: 8.081 ug/l
RT: 3.85 min Scan# 246
Delta R.T. 0.05 min
Lab File: VD062379.D
Acq: 15 May 2019 7:41

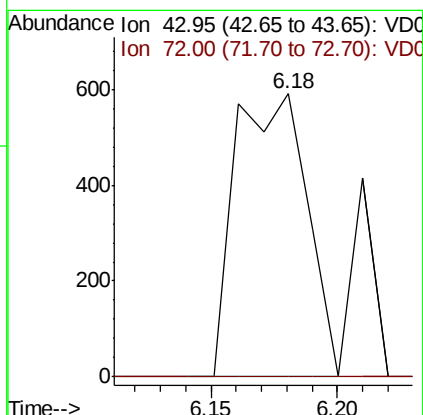
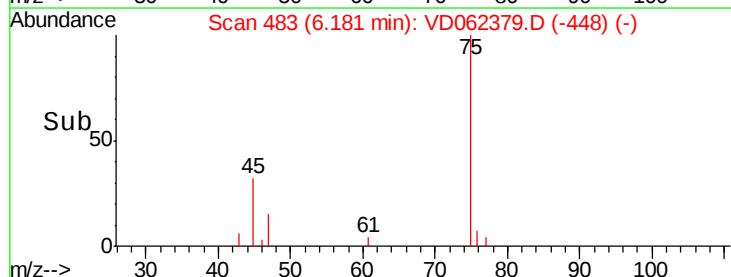
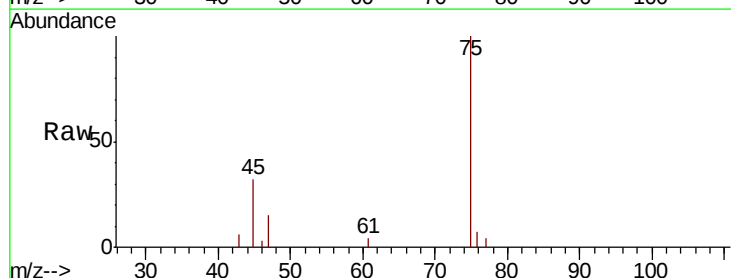
Instrument :
MSVOA_D
ClientSampleId :
RBR-200052

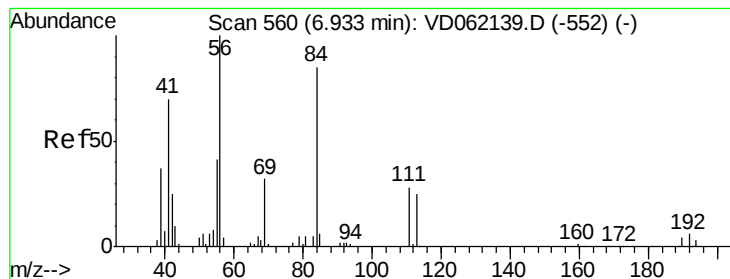
Tot Ion: 84 Resp: 11716
Ion Ratio Lower Upper
84 100
49 87.7 94.0 141.0#
51 33.4 29.0 43.4
86 59.4 49.8 74.6



#25
2-Butanone
Concen: 3.089 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.14 min
Lab File: VD062379.D
Acq: 15 May 2019 7:41

Tgt Ion: 43 Resp: 1170
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.4#





#31

Cyclohexane

Concen: 2.358 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.13 min

Lab File: VD062379.D

Acq: 15 May 2019 7:41

Instrument :

MSVOA_D

ClientSampleId :

RBR-200052

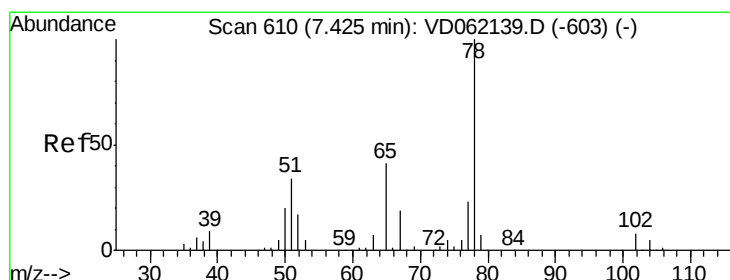
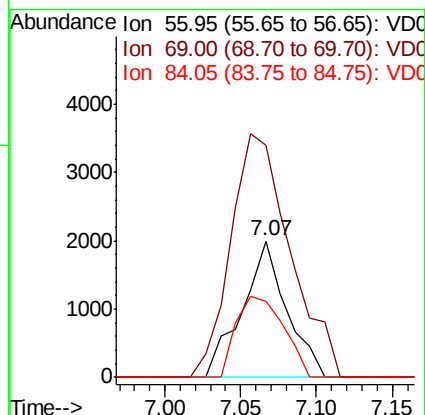
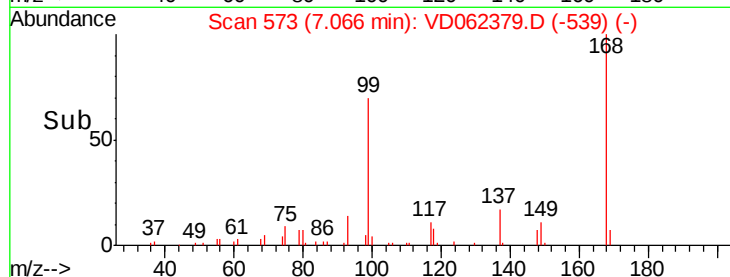
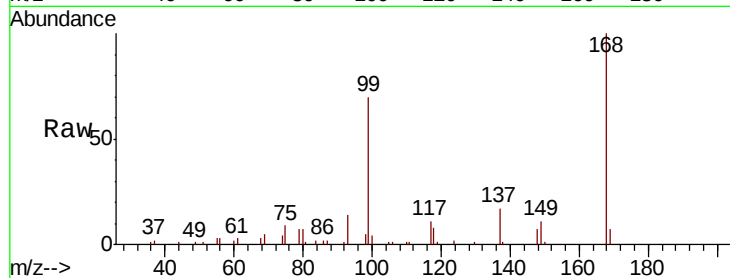
Tot Ion: 56 Resp: 4097

Ion Ratio Lower Upper

56 100

69 170.1 25.8 38.6#

84 56.0 72.2 108.4#



#33

1,2-Dichloroethane-d4

Concen: 90.012 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.04 min

Lab File: VD062379.D

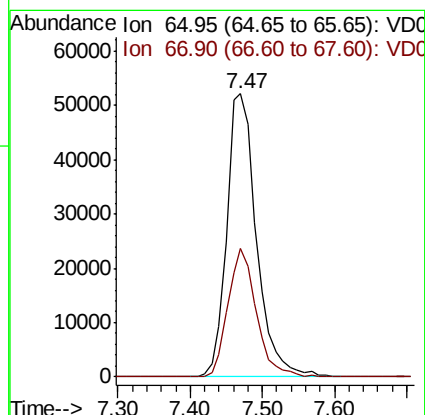
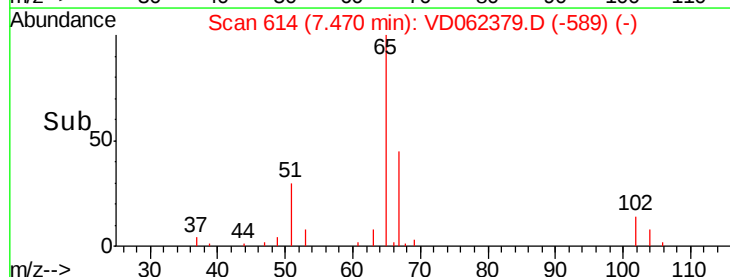
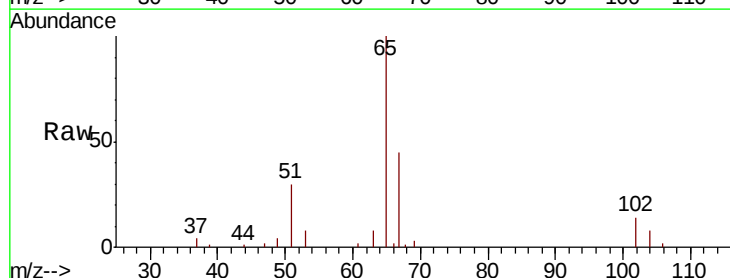
Acq: 15 May 2019 7:41

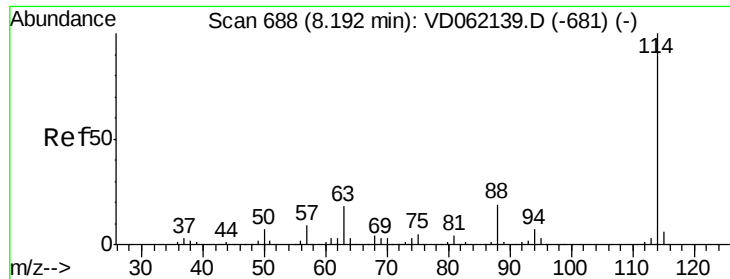
Tgt Ion: 65 Resp: 149043

Ion Ratio Lower Upper

65 100

67 45.2 0.0 98.0

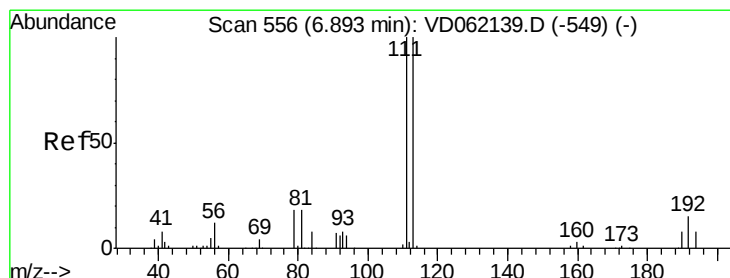
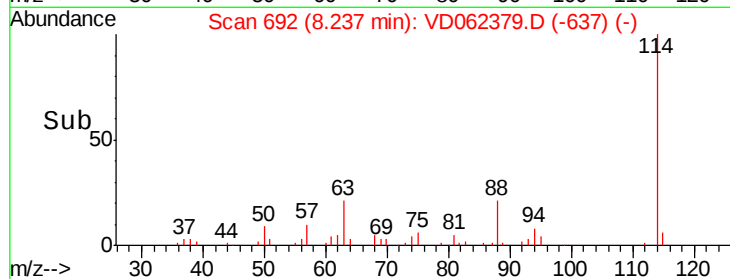
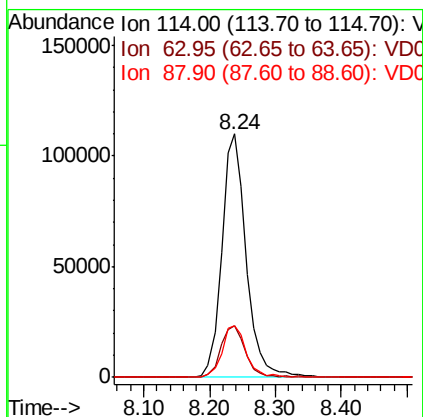
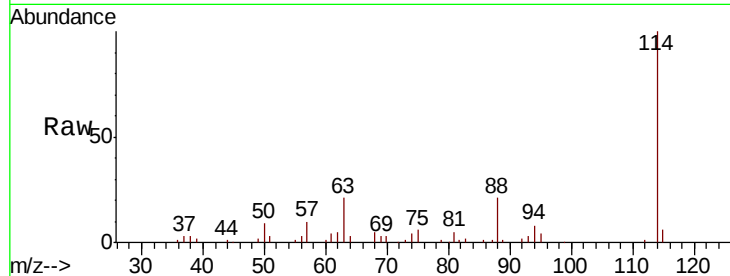




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 692
 Delta R.T. 0.05 min
 Lab File: VD062379.D
 Acq: 15 May 2019 7:41

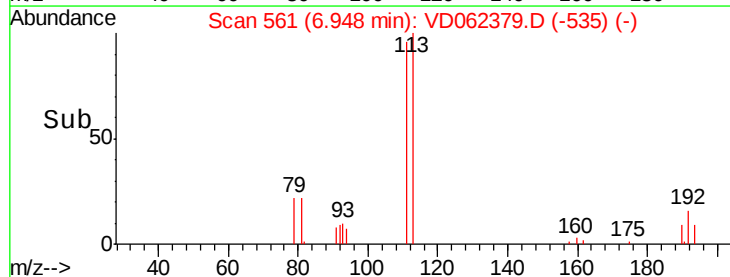
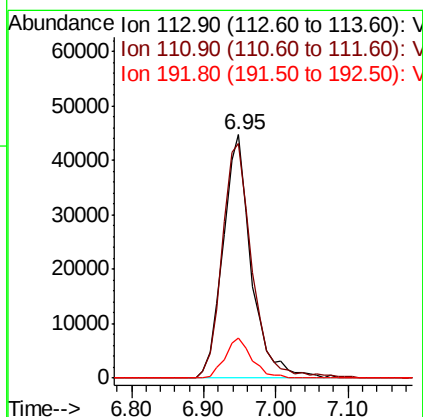
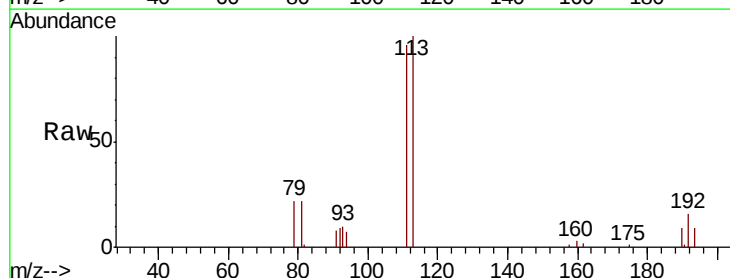
Instrument :
 MSVOA_D
 ClientSampleID :
 RBR-200052

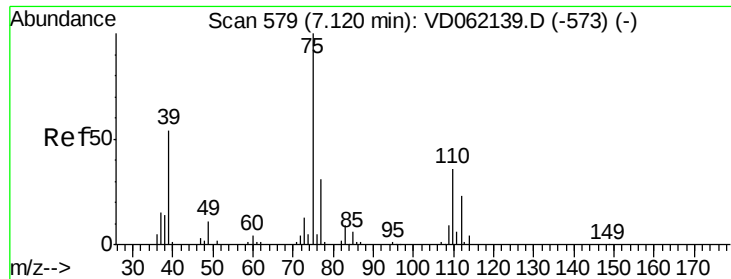
Tot Ion:114 Resp: 282366
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 32.4
 88 21.1 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 51.817 ug/l
 RT: 6.95 min Scan# 561
 Delta R.T. 0.05 min
 Lab File: VD062379.D
 Acq: 15 May 2019 7:41

Tgt Ion:113 Resp: 121397
 Ion Ratio Lower Upper
 113 100
 111 96.4 78.5 117.7
 192 16.3 13.0 19.4

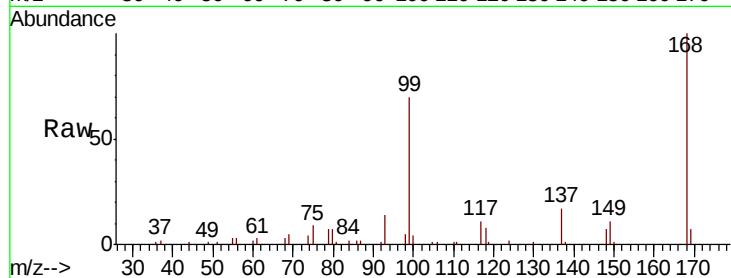




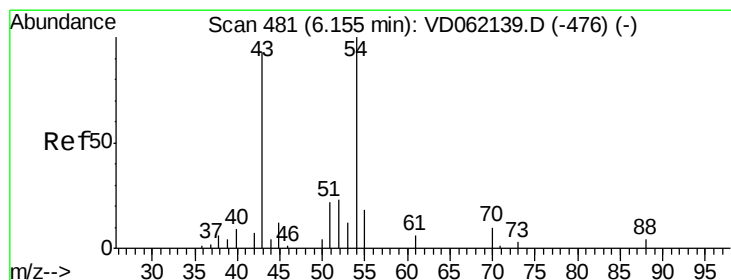
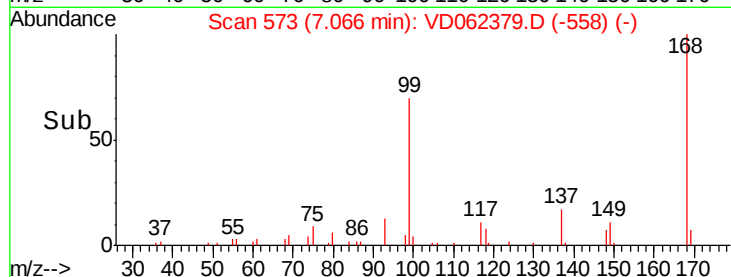
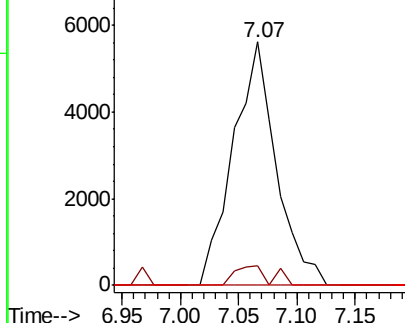
#36
 1,1-Dichloropropene
 Concen: 6.202 ug/l
 RT: 7.07 min Scan# 573
 Delta R.T. -0.05 min
 Lab File: VD062379.D
 Acq: 15 May 2019 7:41

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200052

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	19.1	57.1#
77	0.0	25.6	38.4#

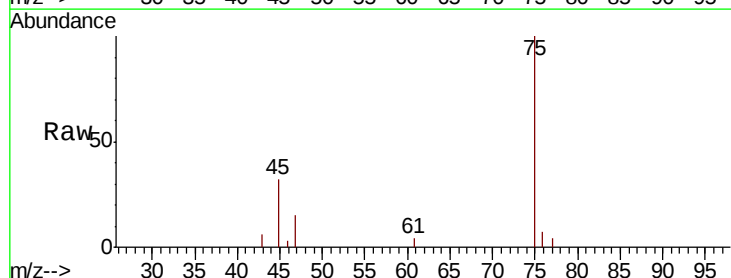


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.95 (76.65 to 77.65): VDC

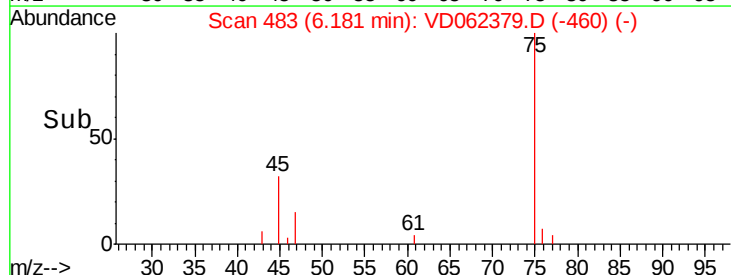
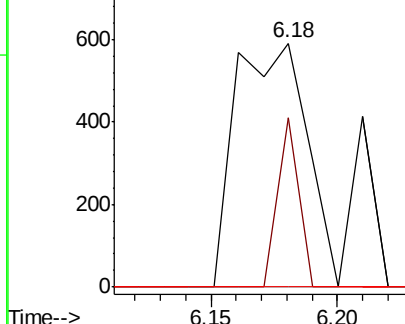


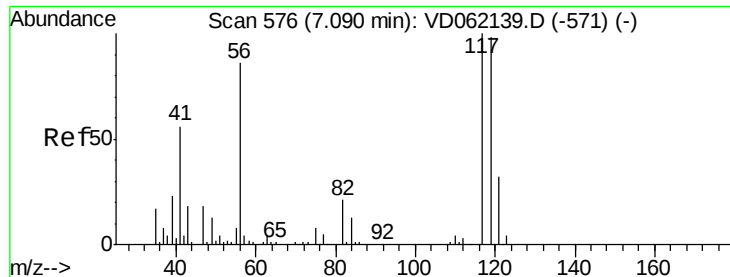
#37
 Ethyl Acetate
 Concen: 1.192 ug/l
 RT: 6.18 min Scan# 483
 Delta R.T. 0.03 min
 Lab File: VD062379.D
 Acq: 15 May 2019 7:41

Tgt Ion	Ratio	Lower	Upper
43	100		
61	69.7	14.7	22.1#
70	0.0	7.8	11.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 70.00 (69.70 to 70.70): VDC

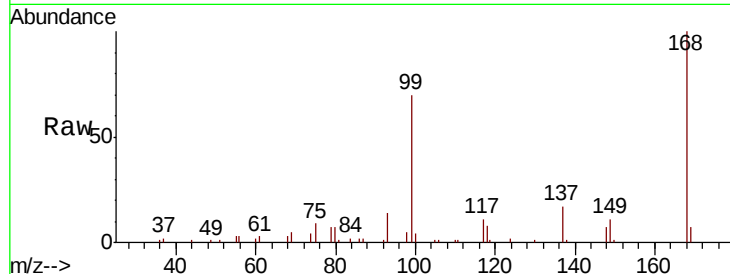




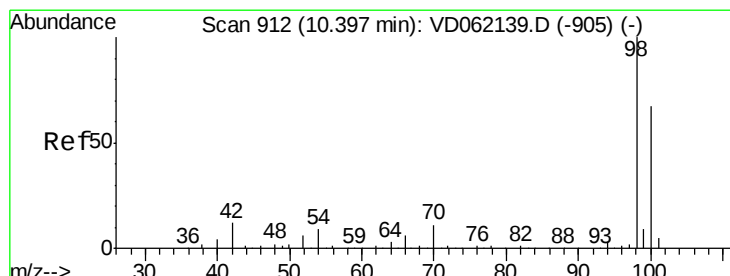
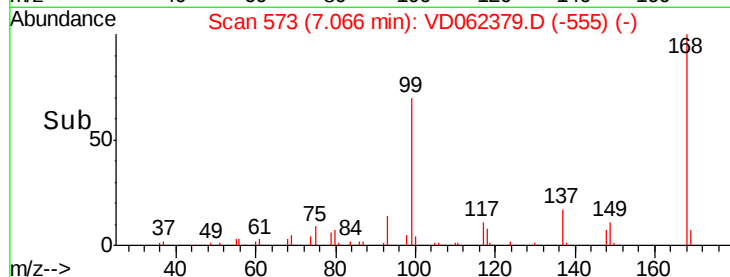
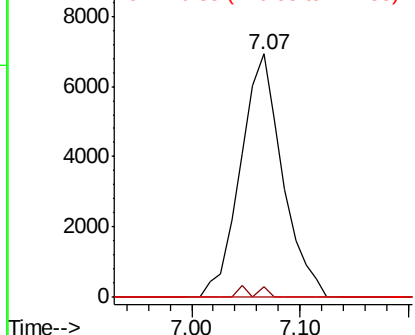
#38
Carbon Tetrachloride
Concen: 5.813 ug/l
RT: 7.07 min Scan# 573
Delta R.T. -0.02 min
Lab File: VD062379.D
Acq: 15 May 2019 7:41

Instrument :
MSVOA_D
ClientSampleId :
RBR-200052

Tot Ion:117 Resp: 18626
Ion Ratio Lower Upper
117 100
119 4.6 75.8 113.8#
121 0.0 25.9 38.9#

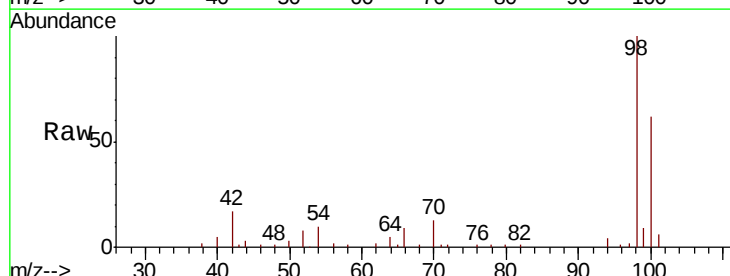


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

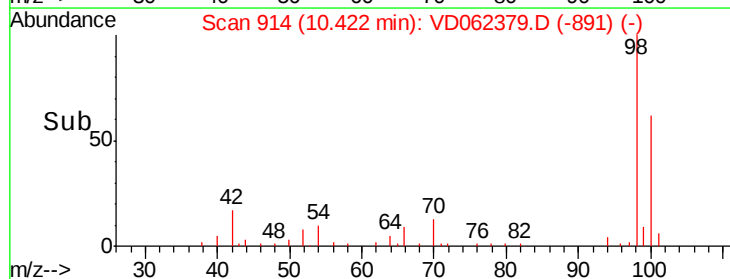
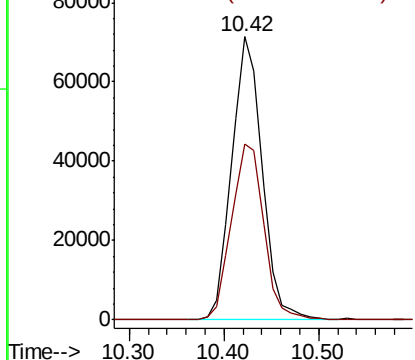


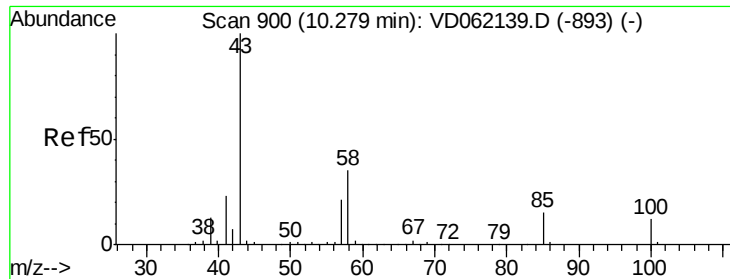
#50
Toluene-d8
Concen: 28.127 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.03 min
Lab File: VD062379.D
Acq: 15 May 2019 7:41

Tgt Ion: 98 Resp: 158879
Ion Ratio Lower Upper
98 100
100 62.2 53.8 80.8



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





#51

4-Methyl-2-Pentanone

Concen: 1.037 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.14 min

Lab File: VD062379.D

Acq: 15 May 2019 7:41

Instrument :

MSVOA_D

ClientSampleId :

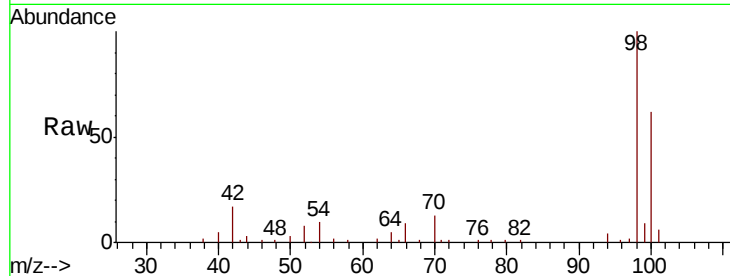
RBR-200052

Tot Ion: 43 Resp: 928

Ion Ratio Lower Upper

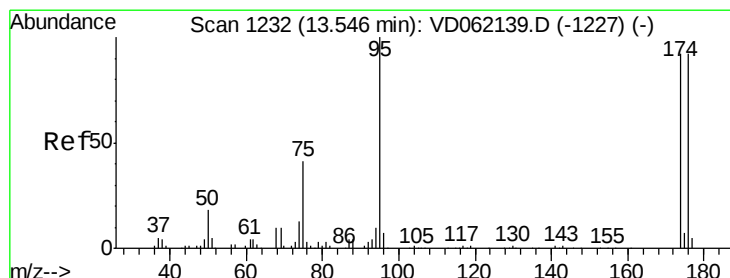
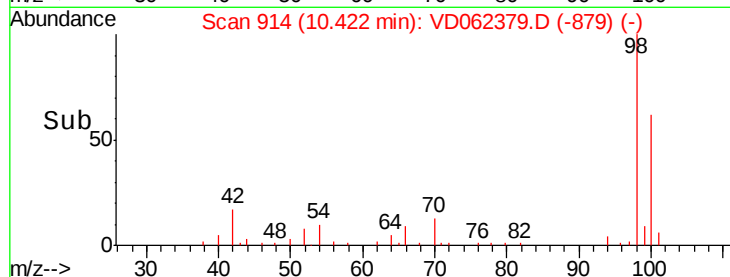
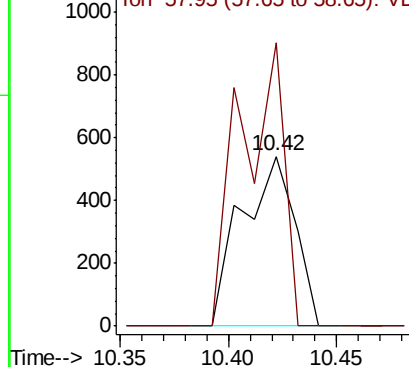
43 100

58 167.0 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: 43.926 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.02 min

Lab File: VD062379.D

Acq: 15 May 2019 7:41

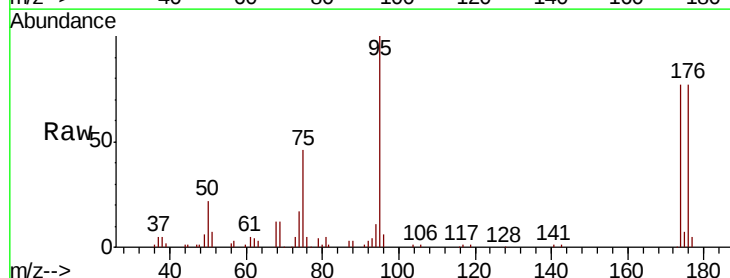
Tgt Ion: 95 Resp: 99639

Ion Ratio Lower Upper

95 100

174 76.7 0.0 181.8

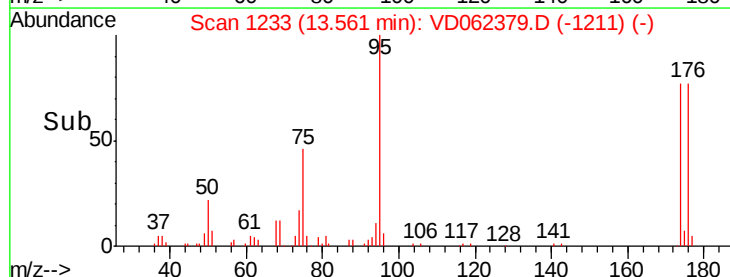
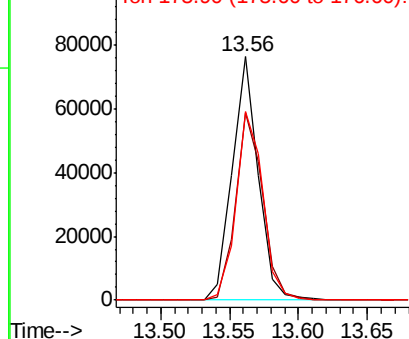
176 77.3 0.0 174.4

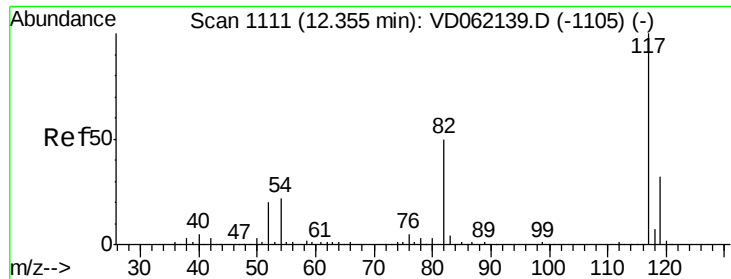


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

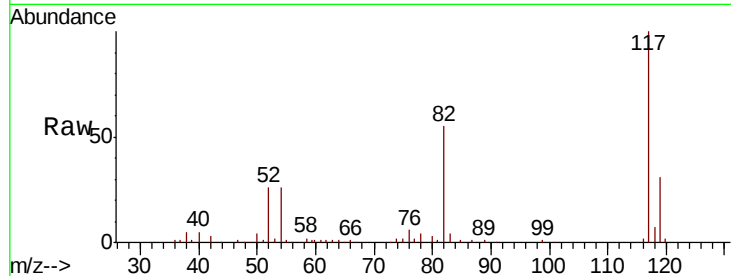




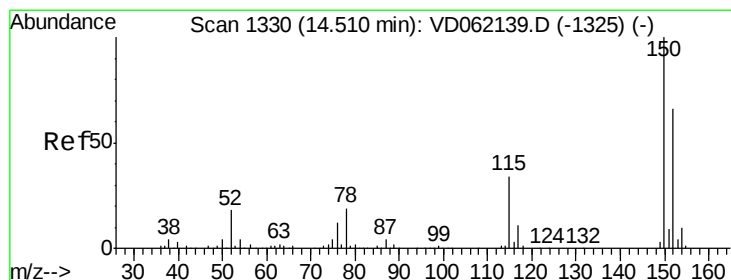
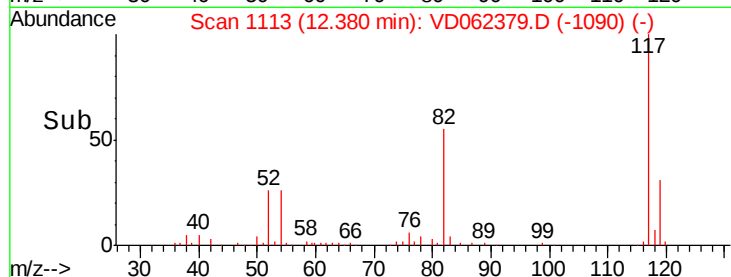
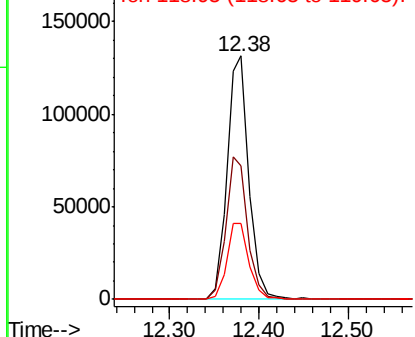
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.03 min
Lab File: VD062379.D
Acq: 15 May 2019 7:41

Instrument :
MSVOA_D
ClientSampleId :
RBR-200052

Tot Ion:117 Resp: 227055
Ion Ratio Lower Upper
117 100
82 54.6 36.2 54.2#
119 31.1 26.2 39.4

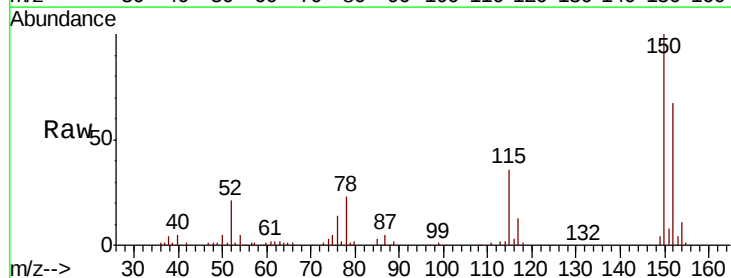


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

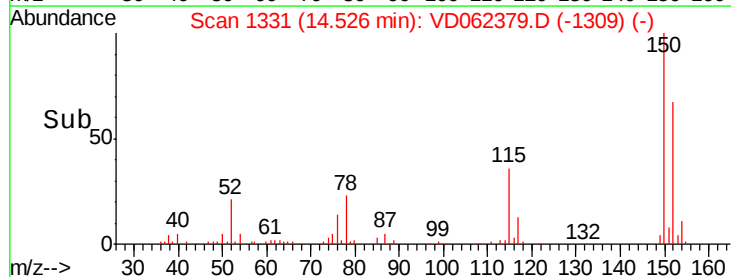
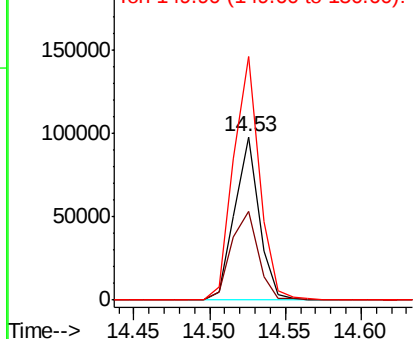


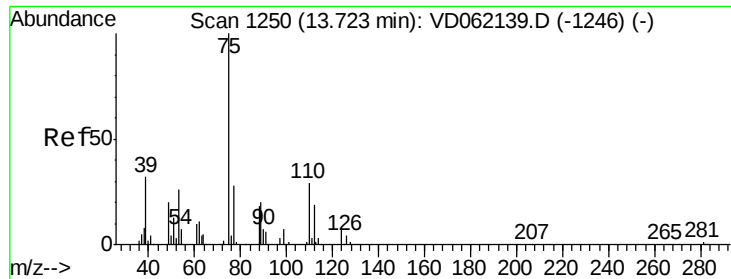
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.02 min
Lab File: VD062379.D
Acq: 15 May 2019 7:41

Tgt Ion:152 Resp: 110358
Ion Ratio Lower Upper
152 100
115 54.2 30.9 92.7
150 149.3 0.0 314.8



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

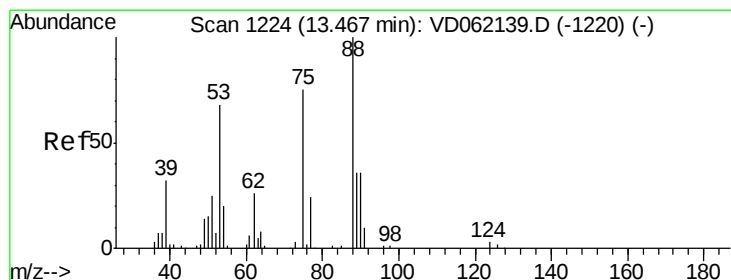
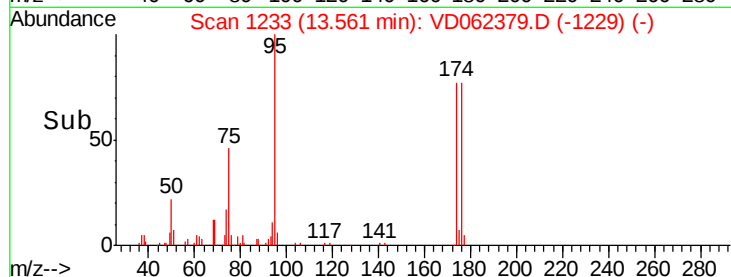
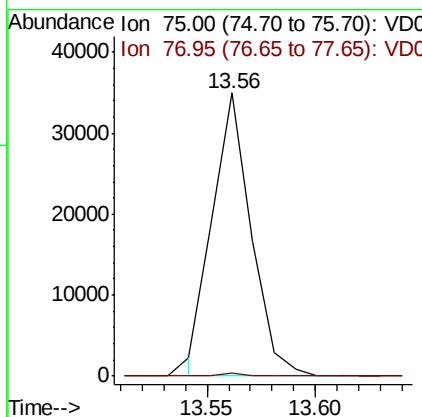
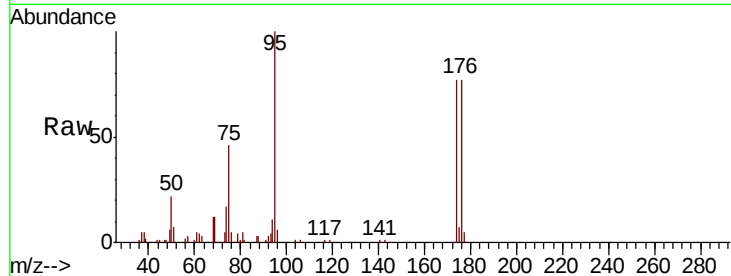




#76
 1,2,3-Trichloropropane
 Concen: 33.139 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. -0.16 min
 Lab File: VD062379.D
 Acq: 15 May 2019 7:41

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200052

Tot Ion: 75 Resp: 43462
 Ion Ratio Lower Upper
 75 100
 77 1.1 16.4 49.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 120.995 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.09 min
 Lab File: VD062379.D
 Acq: 15 May 2019 7:41

Tgt Ion: 75 Resp: 44798
 Ion Ratio Lower Upper
 75 100
 53 0.0 65.8 98.8#
 89 0.0 35.0 52.6#

