

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080519\
 Data File : VD063379.D
 Acq On : 5 Aug 2019 14:33
 Operator : VA/AP
 Sample : K4156-13
 Misc : 5.24g/5ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200035

Quant Time: Aug 06 07:49:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	1031079	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1529601	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	1221271	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	466556	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	537217	46.96	ug/l	0.01
Spiked Amount	50.000		Recovery	=	93.92%	
35) Dibromofluoromethane	6.92	113	584692	44.77	ug/l	0.01
Spiked Amount	50.000		Recovery	=	89.54%	
50) Toluene-d8	10.41	98	1229995	42.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.16%	
62) 4-Bromofluorobenzene	13.56	95	507569	38.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.22%	

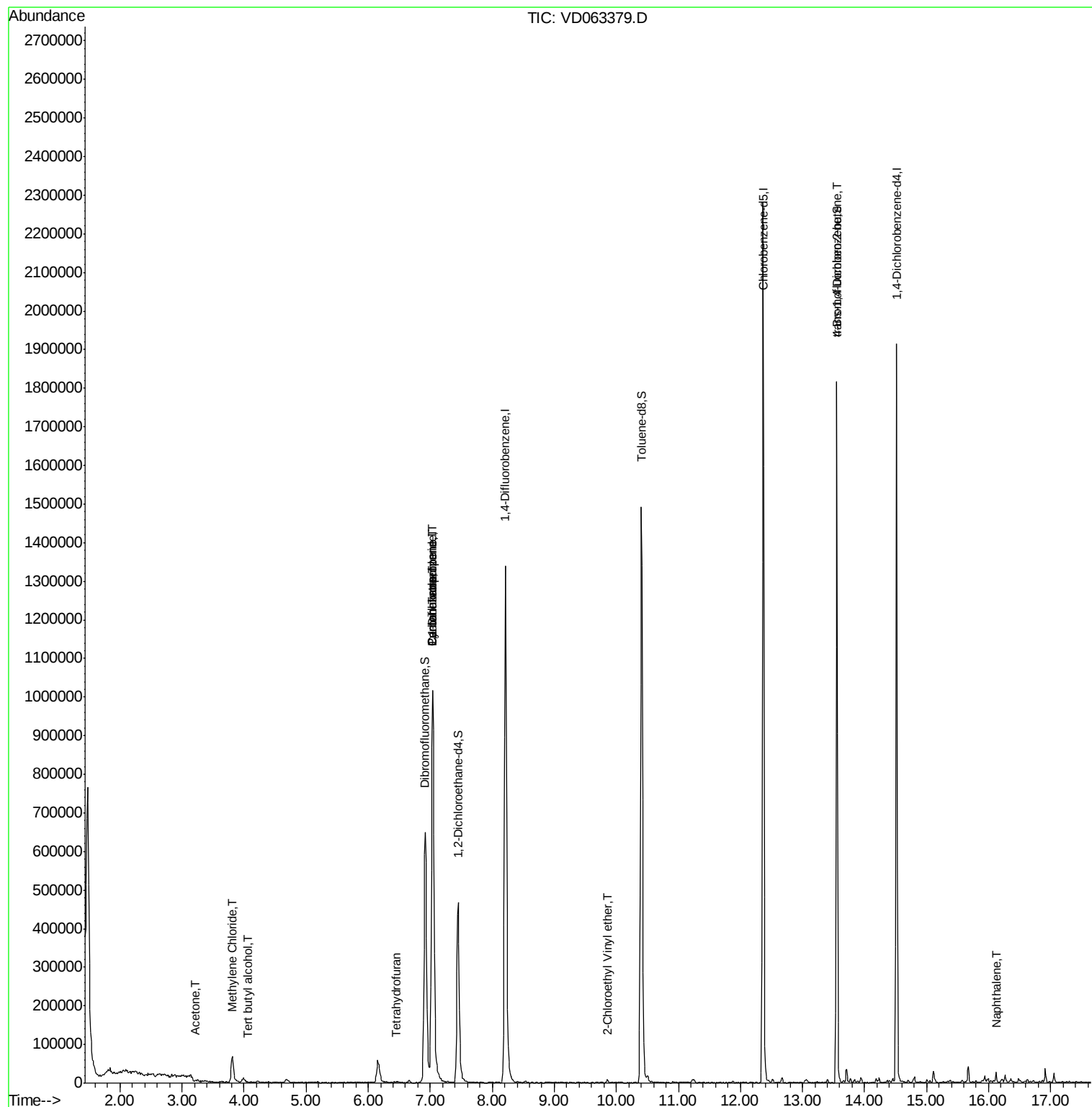
Target Compounds						Qvalue
11) Tert butyl alcohol	4.07	59	2011	4.005	ug/l #	69
16) Acetone	3.22	43	5312	2.383	ug/l #	62
20) Methylene Chloride	3.82	84	43946	4.877	ug/l #	79
29) Tetrahydrofuran	6.46	42	2600	2.455	ug/l #	54
31) Cyclohexane	7.05	56	21966	2.155	ug/l #	26
36) 1,1-Dichloropropene	7.04	75	79636	5.705	ug/l #	49
38) Carbon Tetrachloride	7.05	117	105264	5.009	ug/l #	14
58) 2-Chloroethyl Vinyl ether	9.85	63	3921	1.047	ug/l	90
81) trans-1,4-Dichloro-2-buten	13.56	75	219688	141.179	ug/l #	3
95) Naphthalene	16.12	128	16304	1.130	ug/l #	89

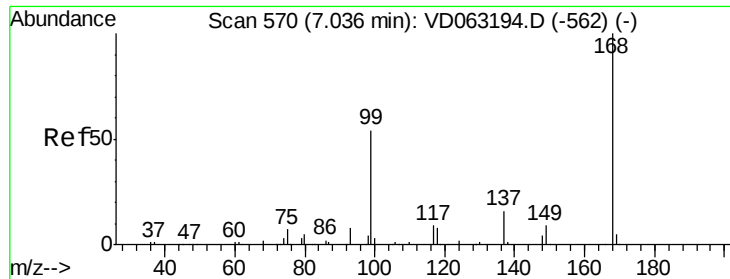
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 30 03:04:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063379.D

Acq: 5 Aug 2019 14:33

Instrument :

MSVOA_D

ClientSampleId :

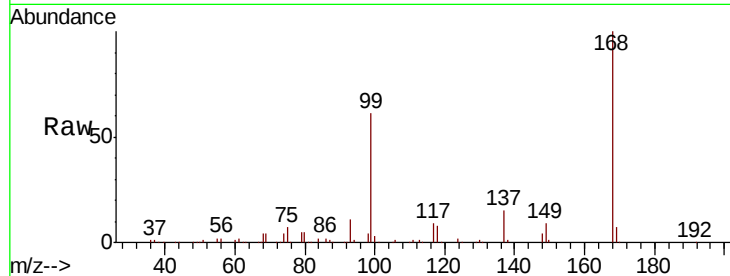
RBR-200035

Tgt Ion:168 Resp: 1031079

Ion Ratio Lower Upper

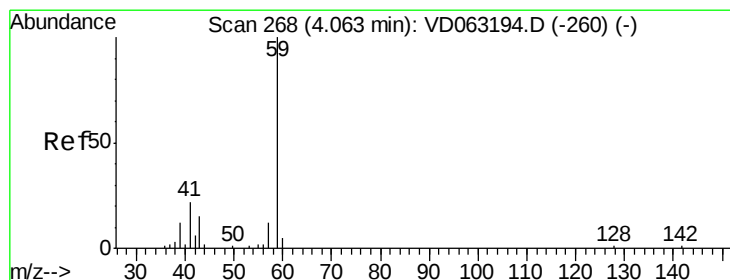
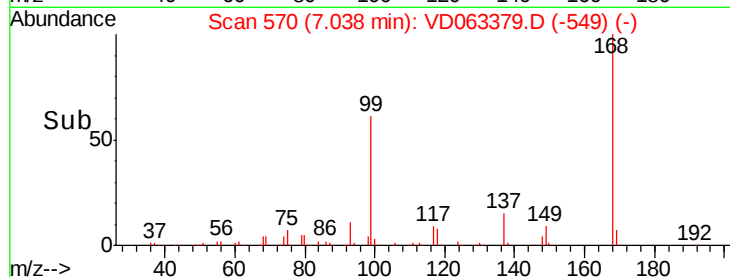
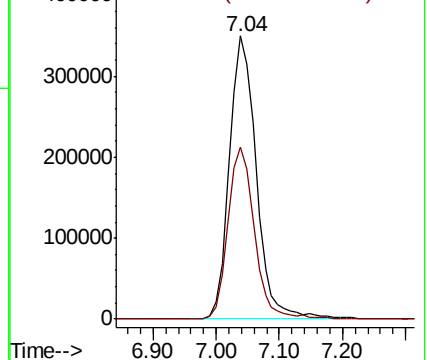
168 100

99 60.8 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 4.005 ug/l

RT: 4.07 min Scan# 268

Delta R.T. 0.00 min

Lab File: VD063379.D

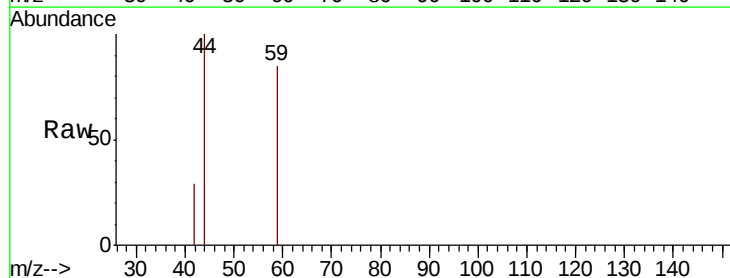
Acq: 5 Aug 2019 14:33

Tgt Ion: 59 Resp: 2011

Ion Ratio Lower Upper

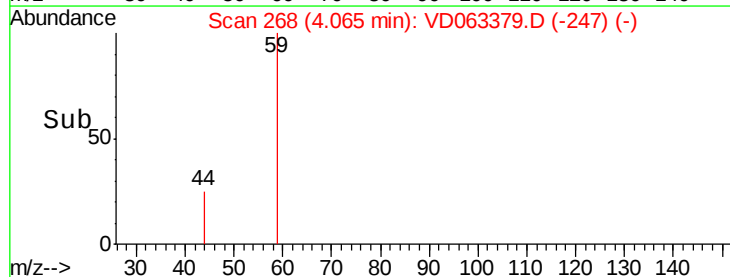
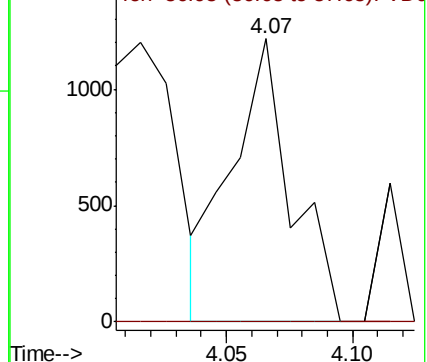
59 100

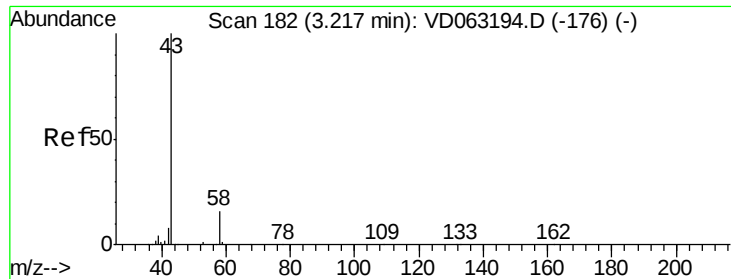
57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 2.383 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063379.D

Acq: 5 Aug 2019 14:33

Instrument :

MSVOA_D

ClientSampleId :

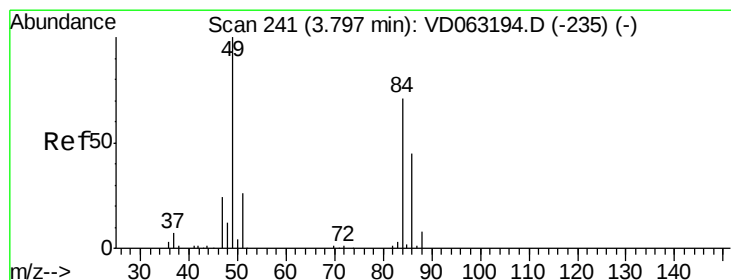
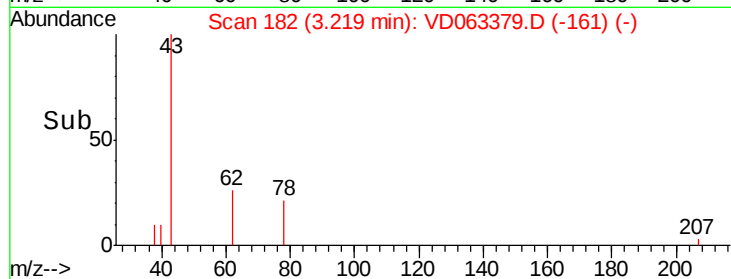
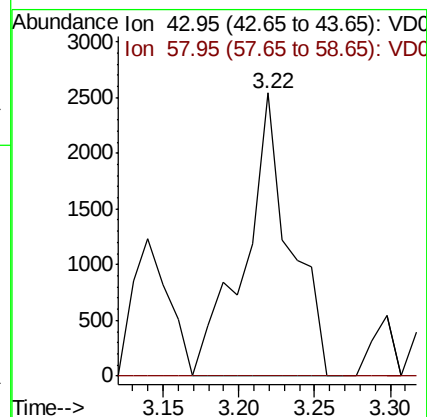
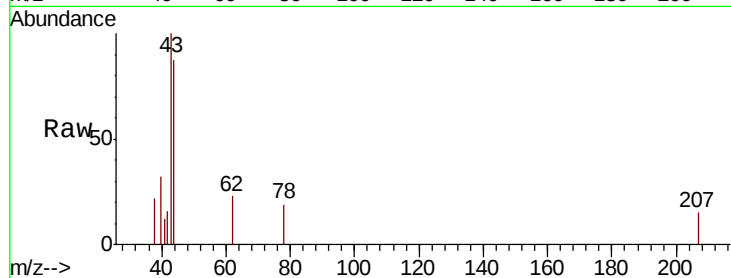
RBR-200035

Tgt Ion: 43 Resp: 5312

Ion Ratio Lower Upper

43 100

58 0.0 13.0 19.4#



#20

Methylene Chloride

Concen: 4.877 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD063379.D

Acq: 5 Aug 2019 14:33

Tgt Ion: 84 Resp: 43946

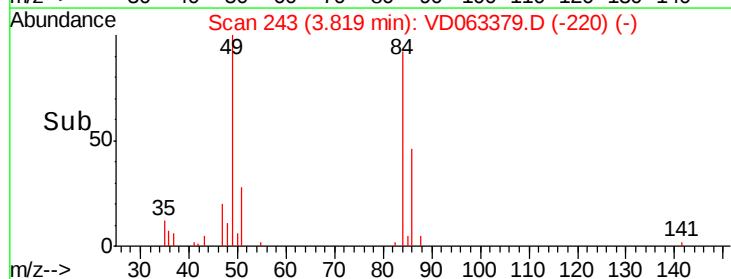
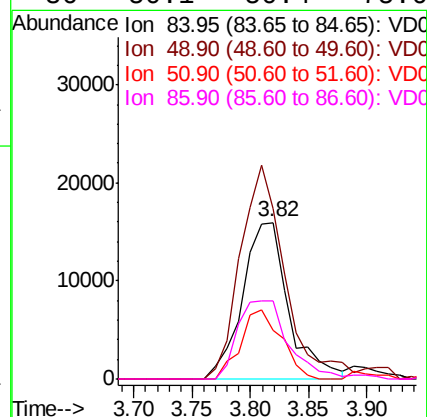
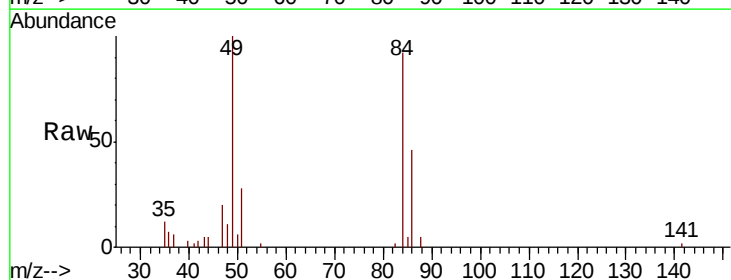
Ion Ratio Lower Upper

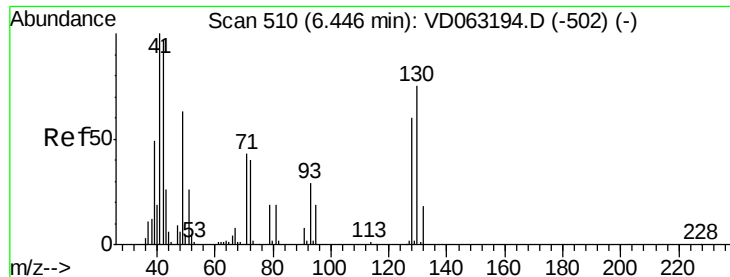
84 100

49 108.8 112.5 168.7#

51 30.9 29.6 44.4

86 50.1 50.4 75.6#





#29

Tetrahydrofuran

Concen: 2.455 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD063379.D

Acq: 5 Aug 2019 14:33

Instrument :

MSVOA_D

ClientSampleId :

RBR-200035

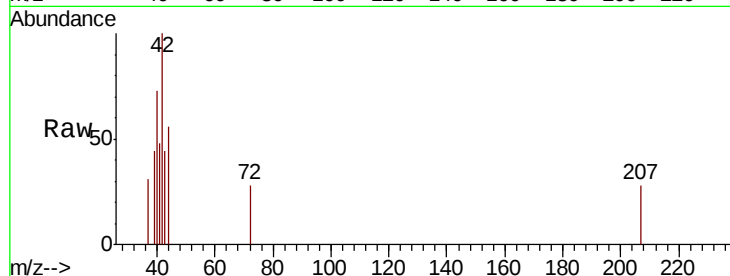
Tgt Ion: 42 Resp: 2600

Ion Ratio Lower Upper

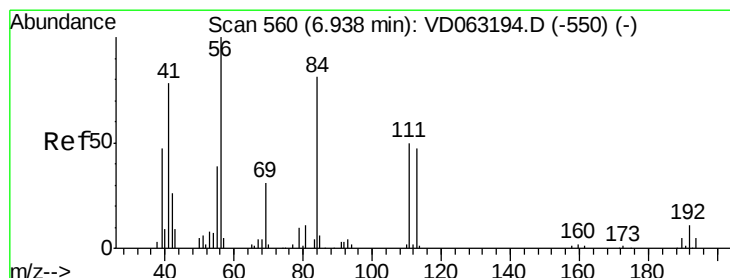
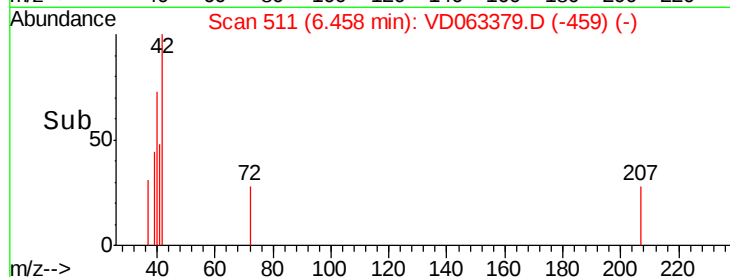
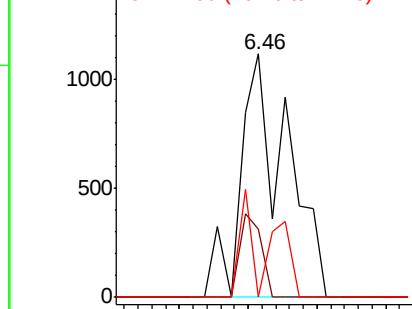
42 100

72 16.0 33.4 50.2#

71 11.3 35.7 53.5#



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



#31

Cyclohexane

Concen: 2.155 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD063379.D

Acq: 5 Aug 2019 14:33

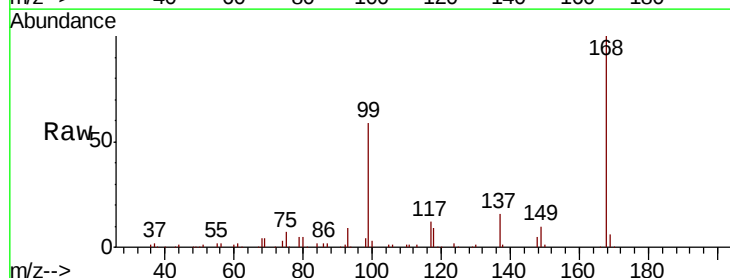
Tgt Ion: 56 Resp: 21966

Ion Ratio Lower Upper

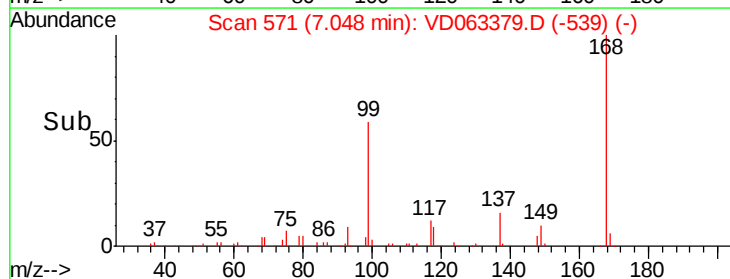
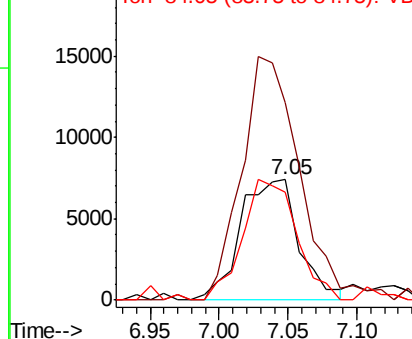
56 100

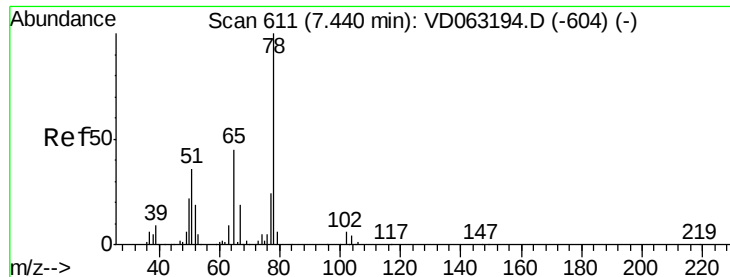
69 163.8 24.5 36.7#

84 89.7 64.9 97.3



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





#33

1,2-Dichloroethane-d4

Concen: 46.956 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD063379.D

Acq: 5 Aug 2019 14:33

Instrument :

MSVOA_D

ClientSampleId :

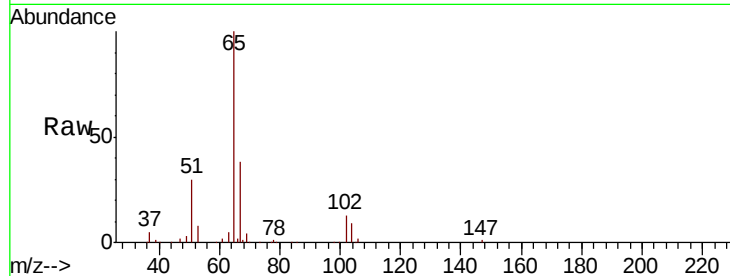
RBR-200035

Tgt Ion: 65 Resp: 537217

Ion Ratio Lower Upper

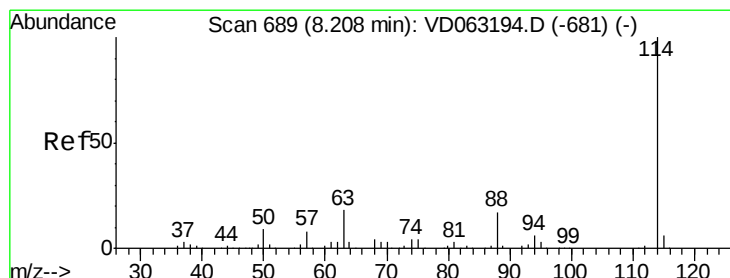
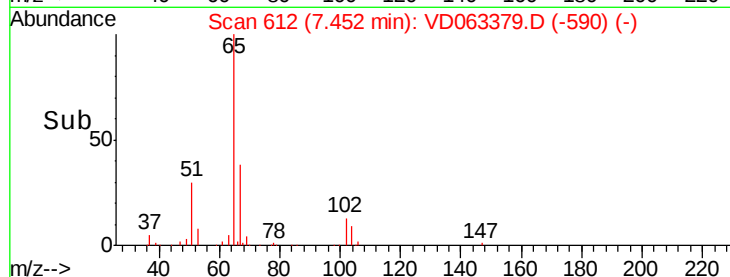
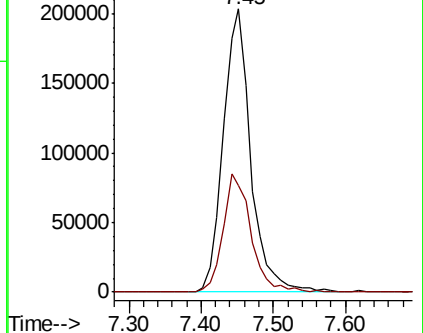
65 100

67 37.9 0.0 85.8



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: 8.21 min Scan# 689

Delta R.T. 0.00 min

Lab File: VD063379.D

Acq: 5 Aug 2019 14:33

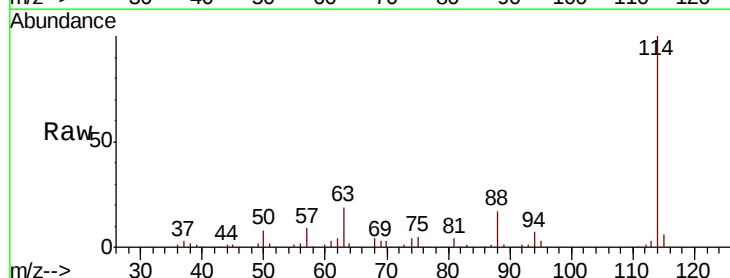
Tgt Ion: 114 Resp: 1529601

Ion Ratio Lower Upper

114 100

63 18.8 0.0 35.2

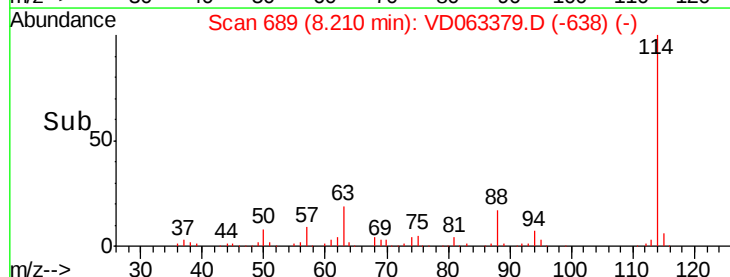
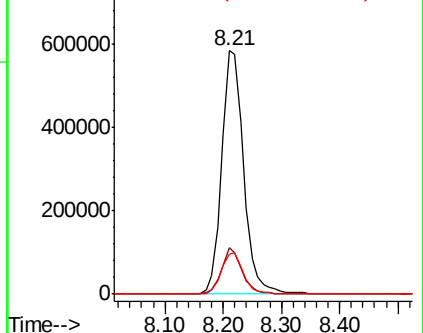
88 16.6 0.0 34.6

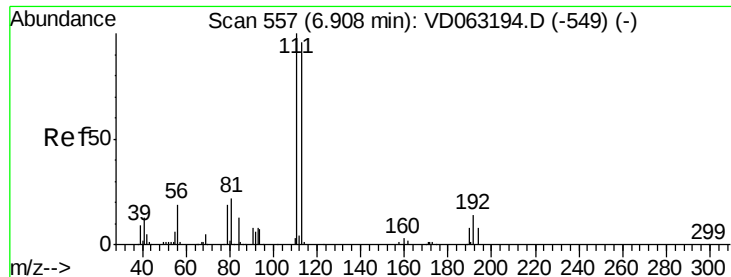


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 44.771 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.01 min

Lab File: VD063379.D

Acq: 5 Aug 2019 14:33

Instrument :

MSVOA_D

ClientSampleId :

RBR-200035

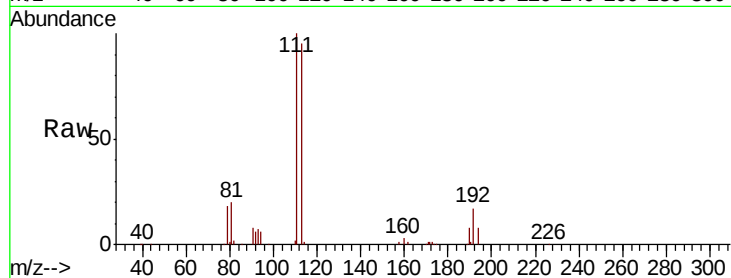
Tgt Ion:113 Resp: 584692

Ion Ratio Lower Upper

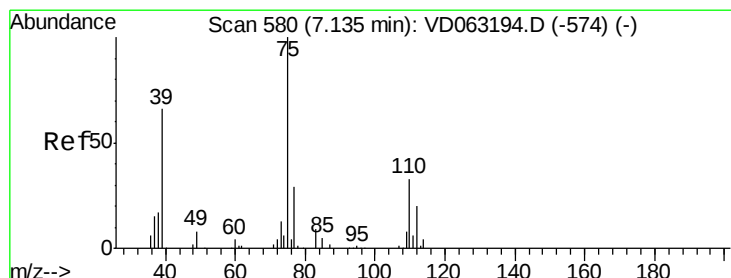
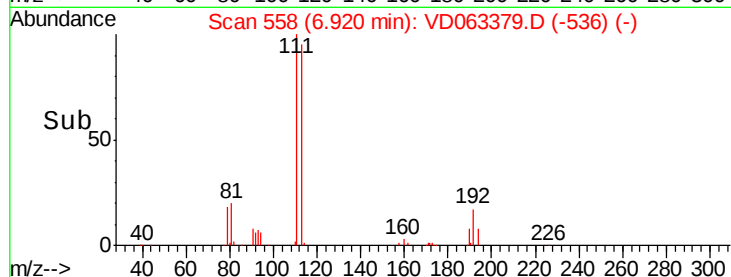
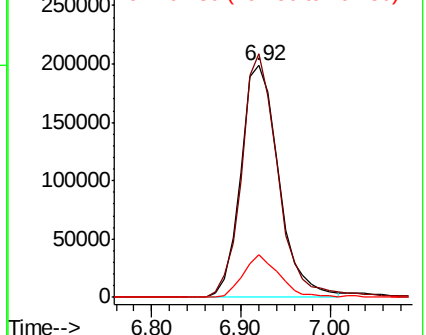
113 100

111 105.0 83.2 124.8

192 18.2 11.8 17.8#



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: 5.705 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.10 min

Lab File: VD063379.D

Acq: 5 Aug 2019 14:33

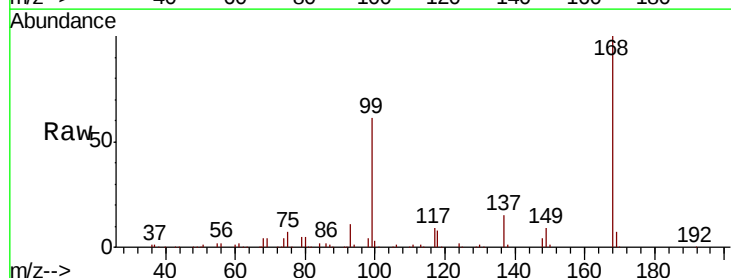
Tgt Ion: 75 Resp: 79636

Ion Ratio Lower Upper

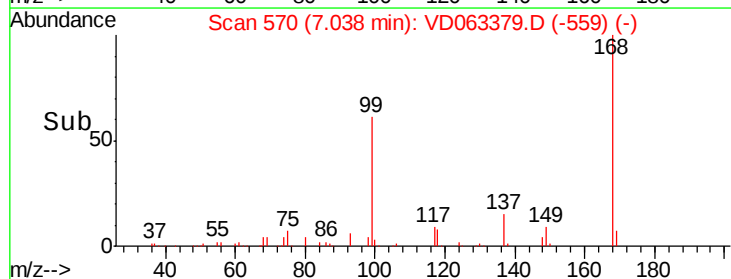
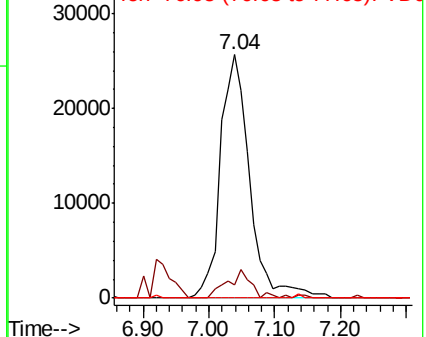
75 100

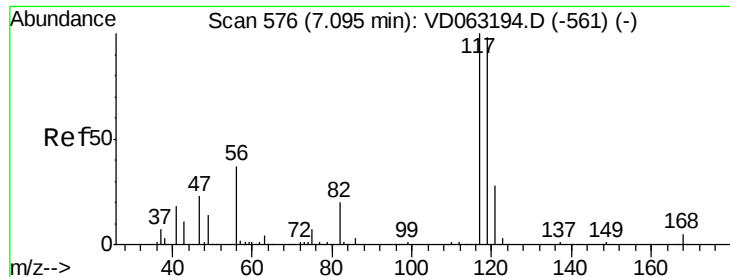
110 5.2 16.1 48.2#

77 0.0 22.7 34.1#



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: 5.009 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.05 min

Lab File: VD063379.D

Acq: 5 Aug 2019 14:33

Instrument :

MSVOA_D

ClientSampleId :

RBR-200035

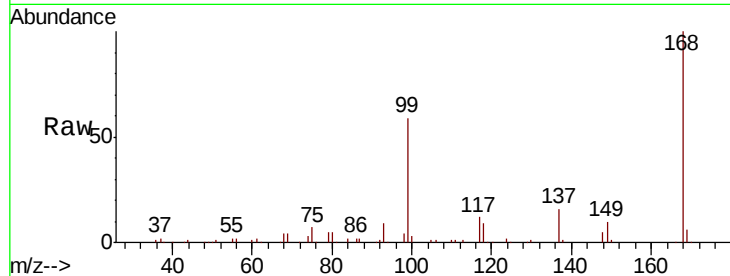
Tgt Ion:117 Resp: 105264

Ion Ratio Lower Upper

117 100

119 3.1 78.2 117.2#

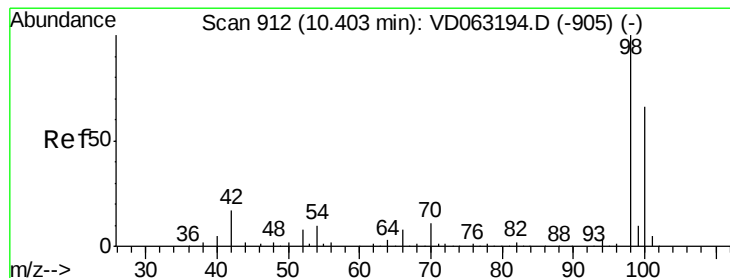
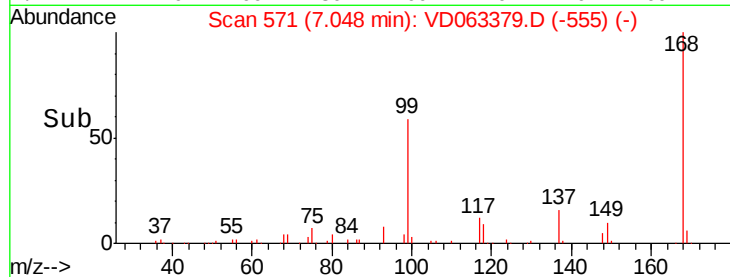
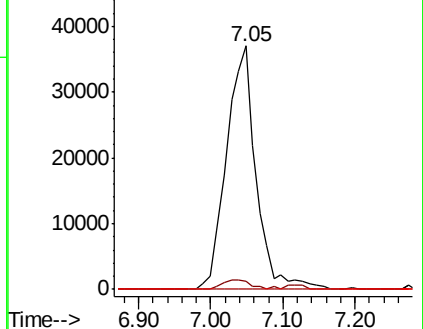
121 0.0 22.1 33.1#



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: 42.084 ug/l

RT: 10.41 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD063379.D

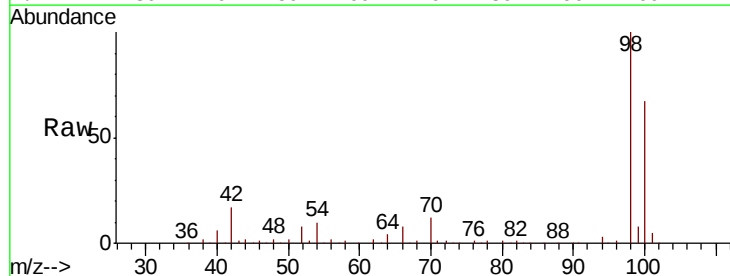
Acq: 5 Aug 2019 14:33

Tgt Ion: 98 Resp: 1229995

Ion Ratio Lower Upper

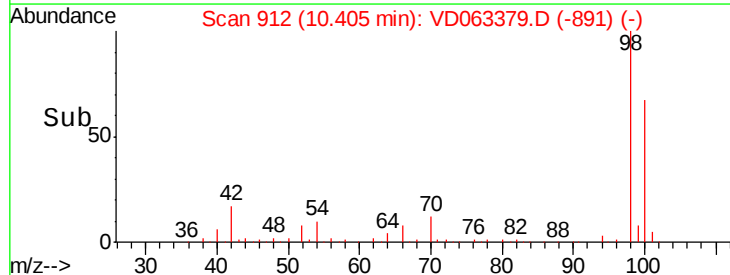
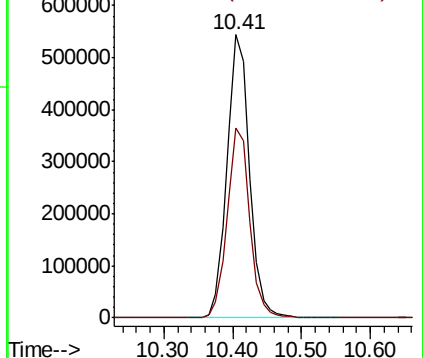
98 100

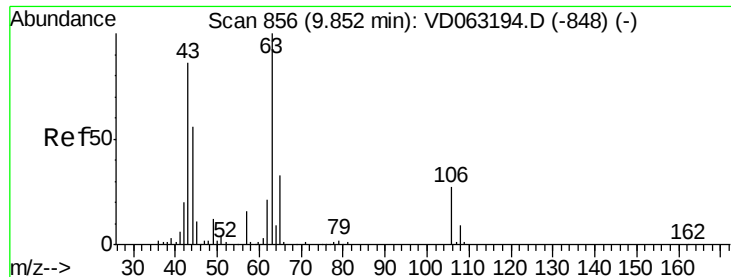
100 67.1 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

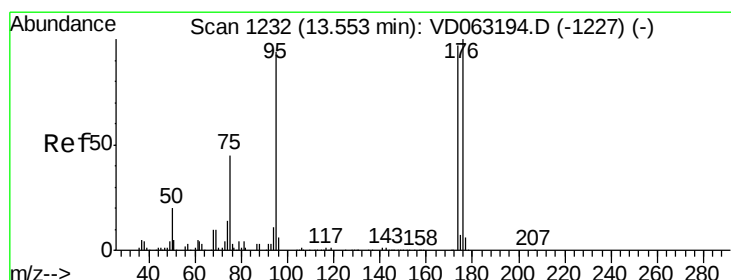
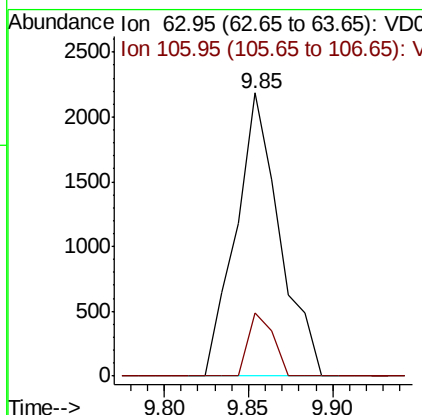
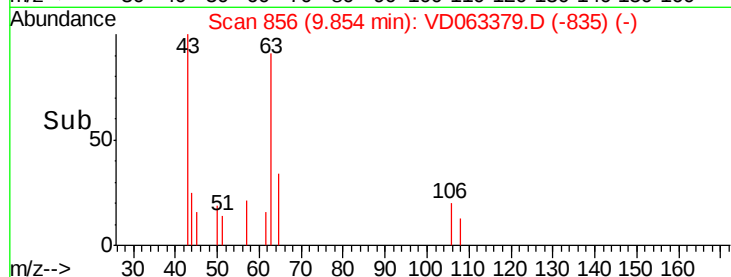
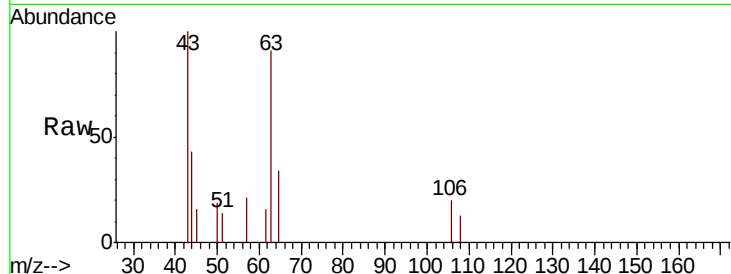




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.047 ug/l
 RT: 9.85 min Scan# 856
 Delta R.T. 0.00 min
 Lab File: VD063379.D
 Acq: 5 Aug 2019 14:33

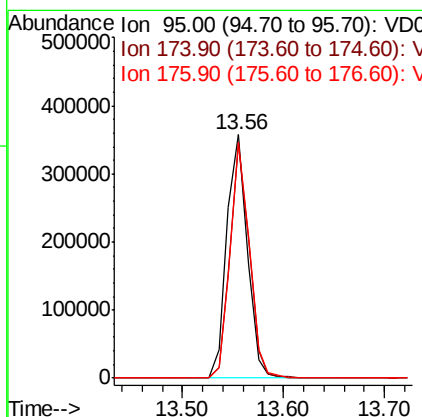
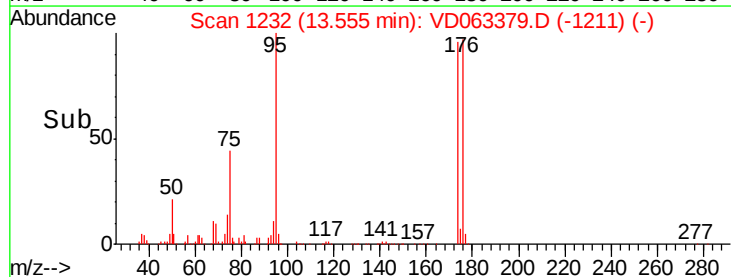
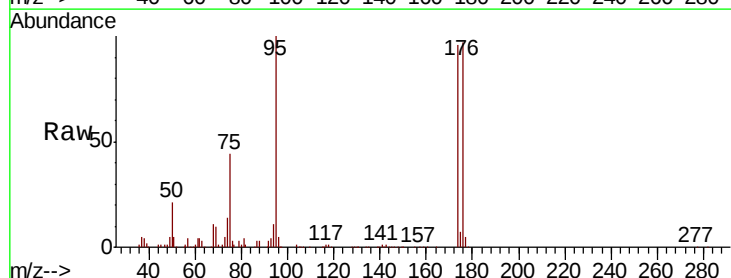
Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200035

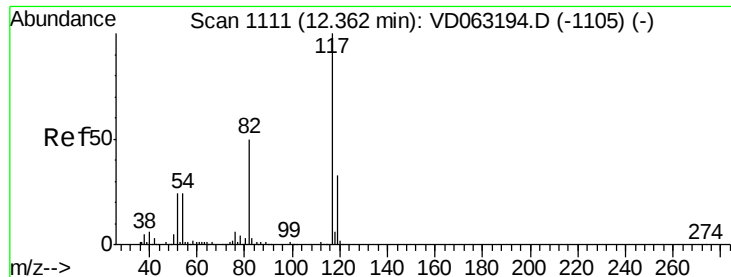
Tgt Ion: 63 Resp: 3921
 Ion Ratio Lower Upper
 63 100
 106 22.2 22.0 33.0



#62
 4-Bromofluorobenzene
 Concen: 38.110 ug/l
 RT: 13.56 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VD063379.D
 Acq: 5 Aug 2019 14:33

Tgt Ion: 95 Resp: 507569
 Ion Ratio Lower Upper
 95 100
 174 96.4 0.0 205.4
 176 96.9 0.0 211.8

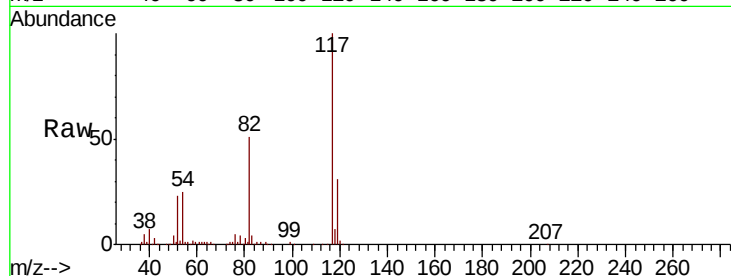




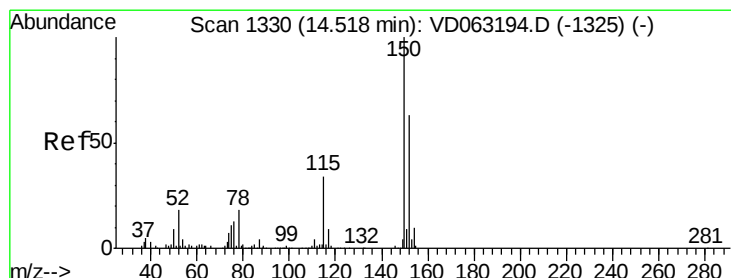
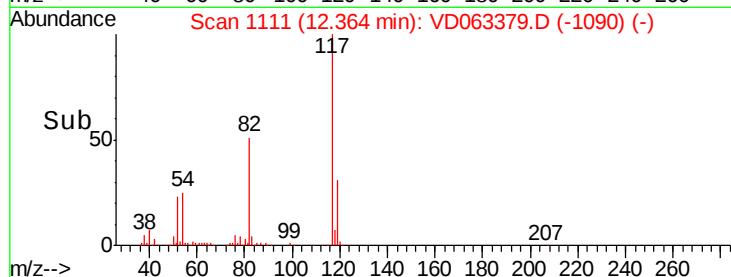
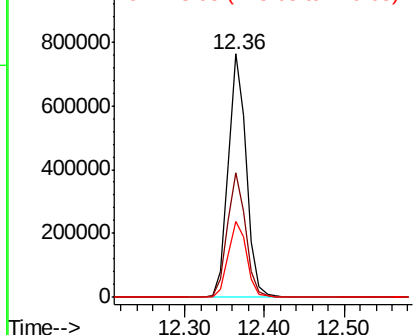
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063379.D
Acq: 5 Aug 2019 14:33

Instrument :
MSVOA_D
ClientSampleId :
RBR-200035

Tgt Ion:117 Resp: 1221271
Ion Ratio Lower Upper
117 100
82 51.0 40.1 60.1
119 31.3 26.5 39.7

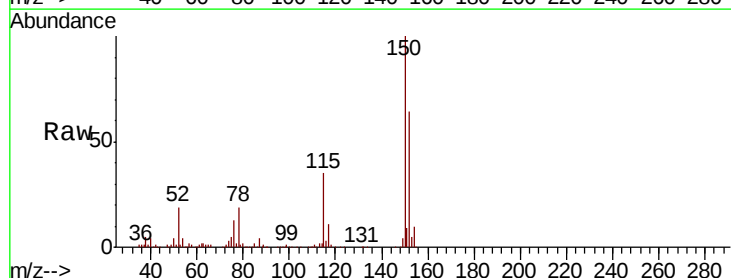


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

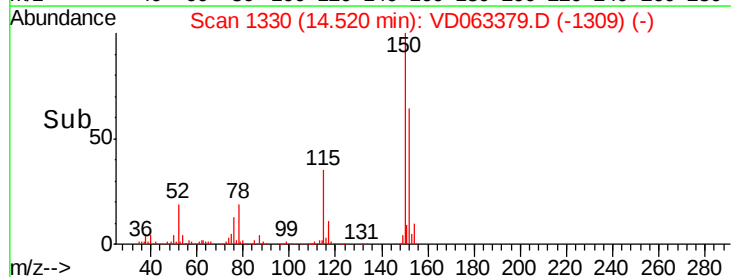
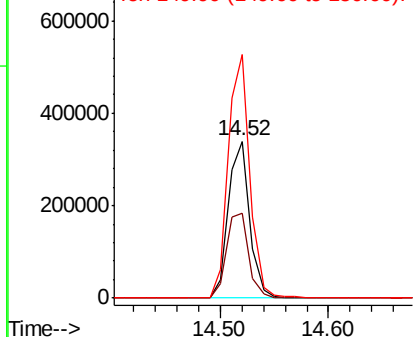


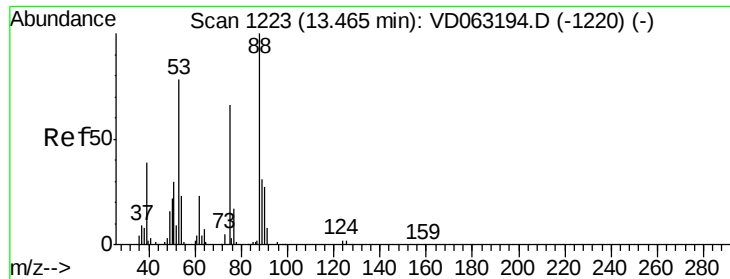
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063379.D
Acq: 5 Aug 2019 14:33

Tgt Ion:152 Resp: 466556
Ion Ratio Lower Upper
152 100
115 54.3 27.5 82.4
150 155.2 0.0 320.6



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: 141.179 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063379.D

Acq: 5 Aug 2019 14:33

Instrument :

MSVOA_D

ClientSampleId :

RBR-200035

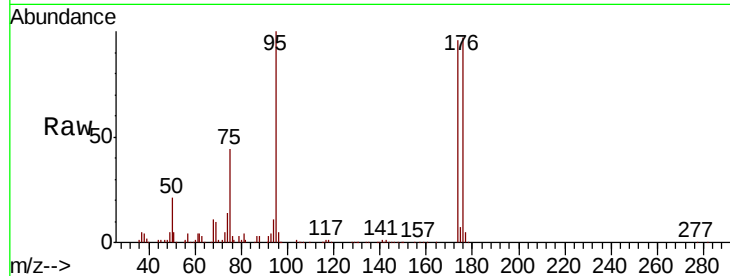
Tgt Ion: 75 Resp: 219688

Ion Ratio Lower Upper

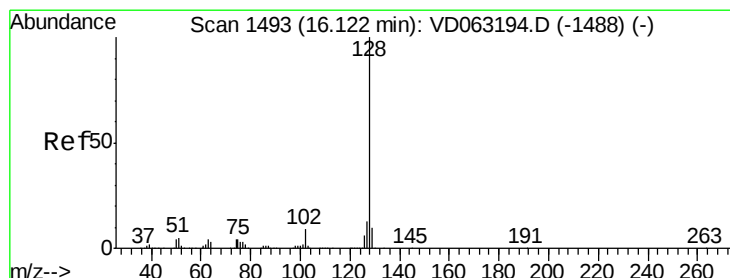
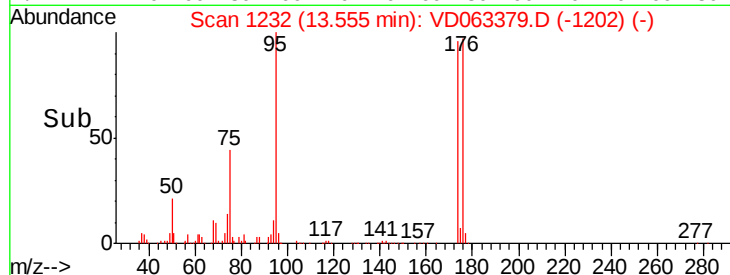
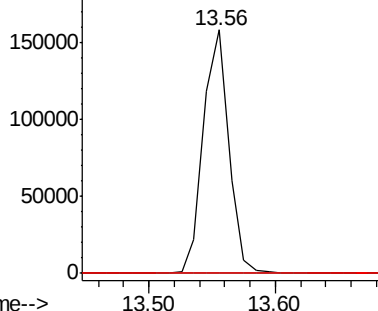
75 100

53 0.0 94.9 142.3#

89 0.0 37.4 56.0#



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



#95

Naphthalene

Concen: 1.130 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD063379.D

Acq: 5 Aug 2019 14:33

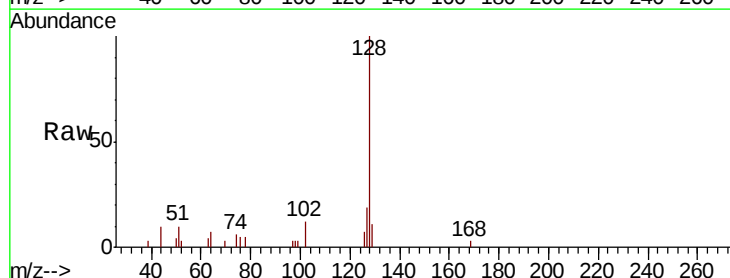
Tgt Ion: 128 Resp: 16304

Ion Ratio Lower Upper

128 100

127 19.0 10.2 15.4#

129 11.2 7.8 11.8



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

