

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080619\
 Data File : VD063408.D
 Acq On : 6 Aug 2019 19:27
 Operator : JC/SY
 Sample : K4192-02
 Misc : 5.39g/5ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TRIPLE-BARREL-BC-WEST

Quant Time: Aug 07 06:43:58 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	7.06	168	51126	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	79549	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	60592	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	21762	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	49997	88.13	ug/l	0.02
Spiked Amount			Recovery	=	176.26%	
35) Dibromofluoromethane	6.93	113	39507	58.17	ug/l	0.02
Spiked Amount			Recovery	=	116.34%	
50) Toluene-d8	10.41	98	63199	41.58	ug/l	0.00
Spiked Amount			Recovery	=	83.16%	
62) 4-Bromofluorobenzene	13.56	95	21799	31.47	ug/l	0.00
Spiked Amount			Recovery	=	62.94%	

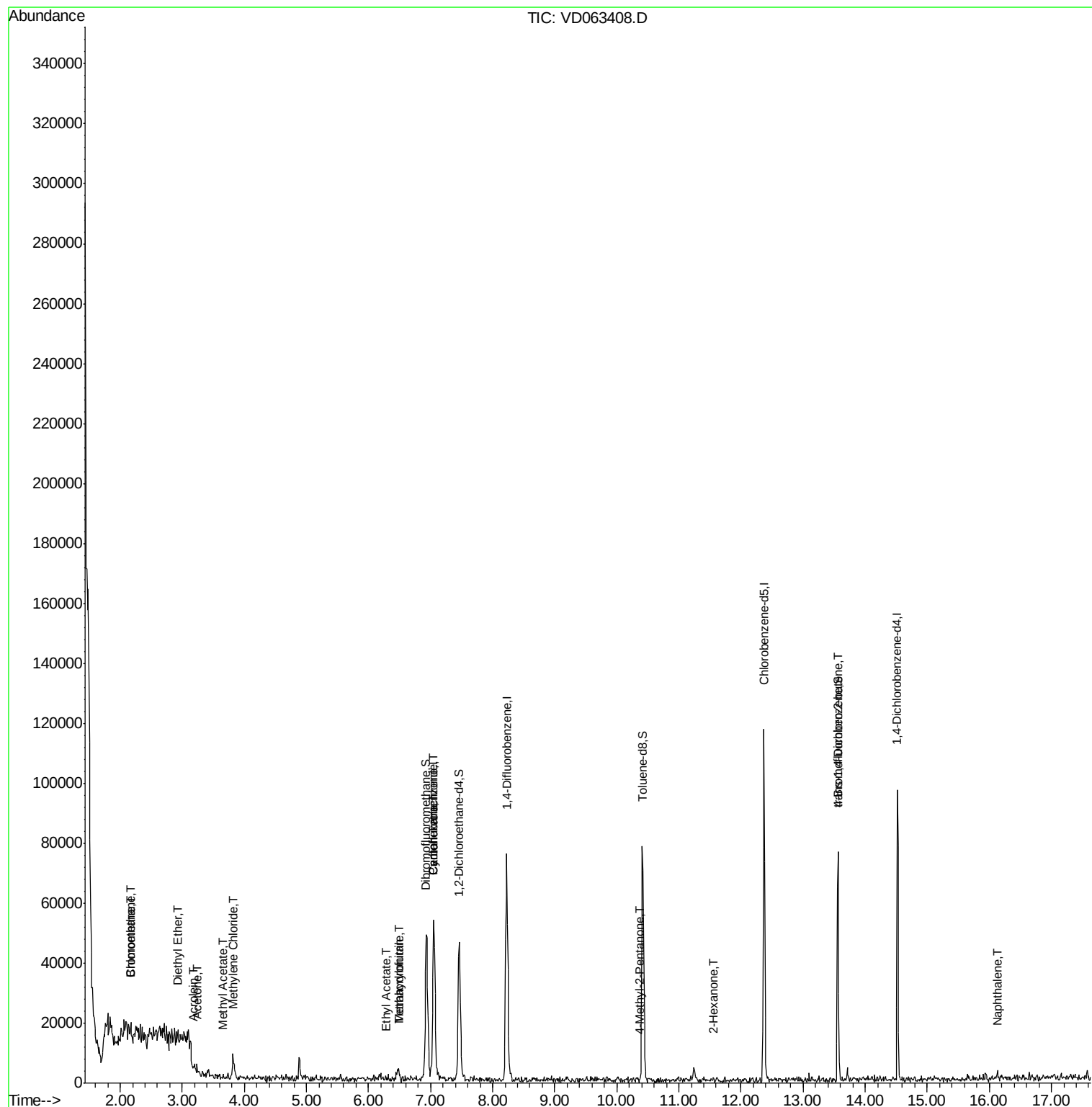
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	1821	7.183	ug/l #	12
6) Chloroethane	2.17	64	507	2.185	ug/l #	1
8) Diethyl Ether	2.93	74	178	1.304	ug/l #	26
13) Acrolein	3.18	56	210	8.765	ug/l #	15
16) Acetone	3.23	43	941	8.513	ug/l #	62
18) Methyl Acetate	3.66	43	759	3.575	ug/l #	60
20) Methylene Chloride	3.83	84	3042	6.809	ug/l #	89
29) Tetrahydrofuran	6.48	42	3204	61.007	ug/l #	58
31) Cyclohexane	7.05	56	811	1.605	ug/l #	1
37) Ethyl Acetate	6.28	43	494	1.515	ug/l #	70
38) Carbon Tetrachloride	7.05	117	6488	5.936	ug/l #	11
41) Methacrylonitrile	6.47	41	1995	5.113	ug/l #	88
51) 4-Methyl-2-Pentanone	10.36	43	386	1.362	ug/l #	42
59) 2-Hexanone	11.56	43	257	1.259	ug/l #	31
81) trans-1,4-Dichloro-2-buten	13.55	75	11101	152.943	ug/l #	3
95) Naphthalene	16.12	128	1315	1.953	ug/l #	70

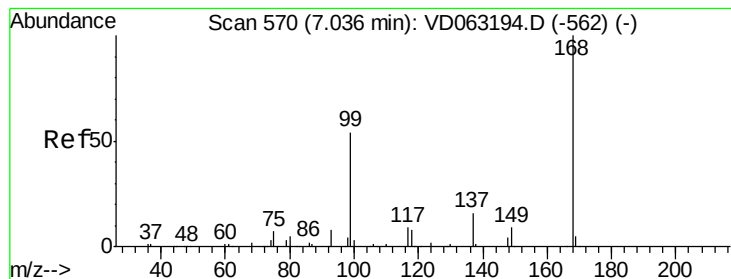
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD063408.D

Acq: 6 Aug 2019 19:27

Instrument :

MSVOA_D

ClientSampleId :

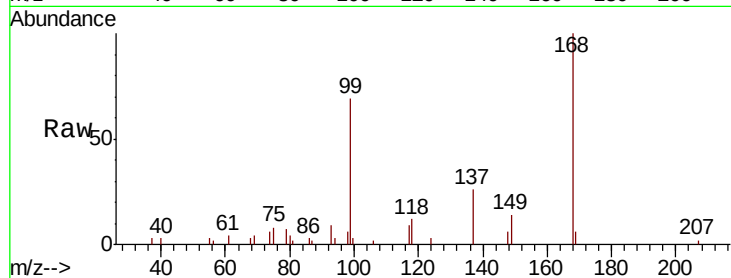
TRIPLE-BARREL-BC-WEST

Tgt Ion:168 Resp: 51126

Ion Ratio Lower Upper

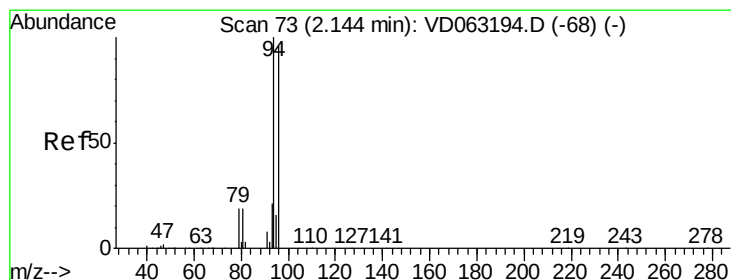
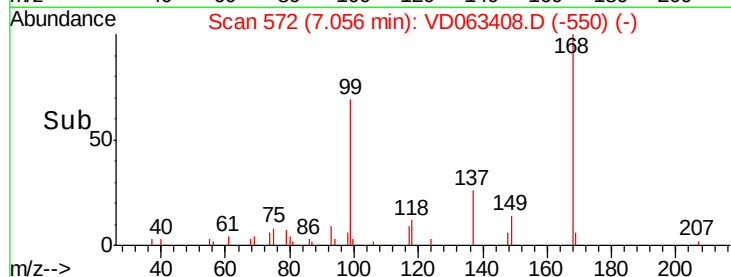
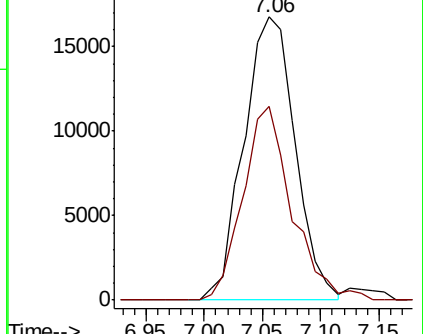
168 100

99 68.5 43.7 65.5#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 7.183 ug/l

RT: 2.16 min Scan# 75

Delta R.T. 0.02 min

Lab File: VD063408.D

Acq: 6 Aug 2019 19:27

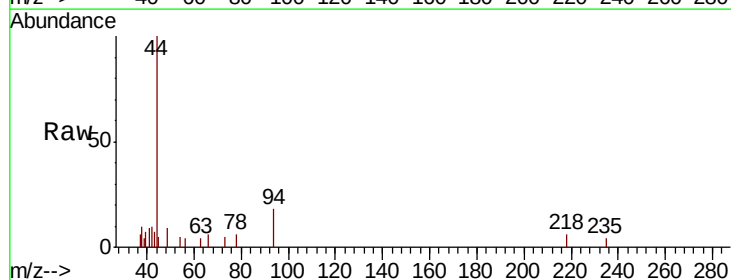
Tgt Ion: 94 Resp: 1821

Ion Ratio Lower Upper

94 100

96 0.0 76.4 114.6#

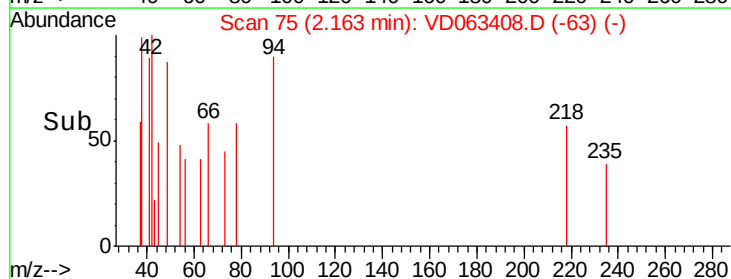
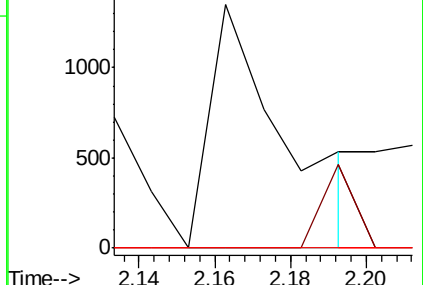
93 0.0 17.3 25.9#

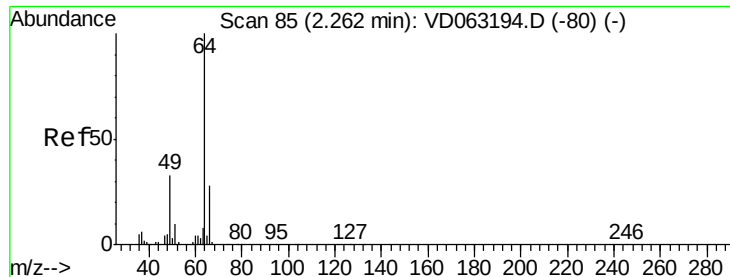


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#6

Chloroethane

Concen: 2.185 ug/l

RT: 2.17 min Scan# 76

Delta R.T. -0.09 min

Lab File: VD063408.D

Acq: 6 Aug 2019 19:27

Instrument :

MSVOA_D

ClientSampleId :

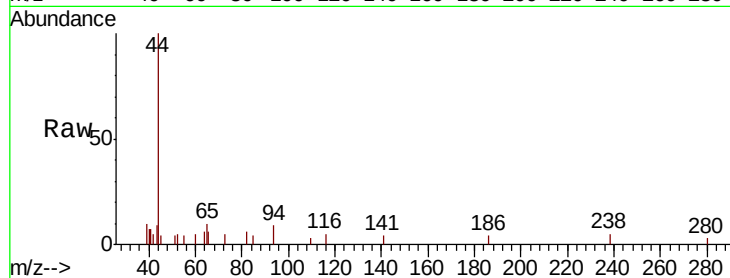
TRIPLE-BARREL-BC-WEST

Tgt Ion: 64 Resp: 507

Ion Ratio Lower Upper

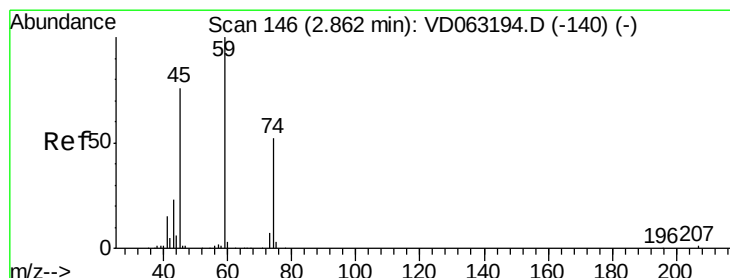
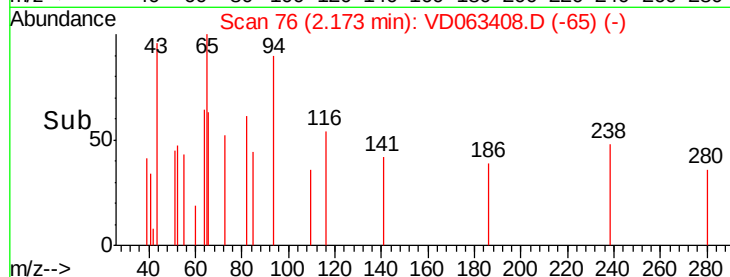
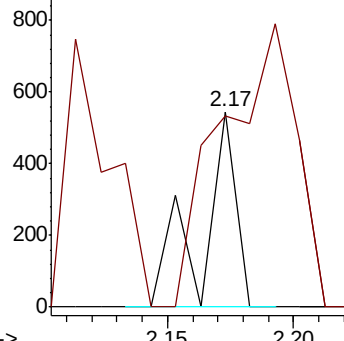
64 100

66 97.8 22.2 33.2#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#8

Diethyl Ether

Concen: 1.304 ug/l

RT: 2.93 min Scan# 153

Delta R.T. 0.07 min

Lab File: VD063408.D

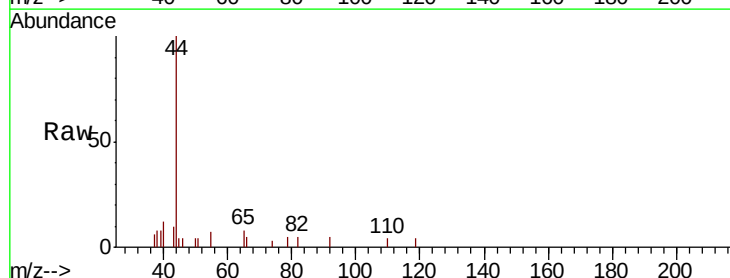
Acq: 6 Aug 2019 19:27

Tgt Ion: 74 Resp: 178

Ion Ratio Lower Upper

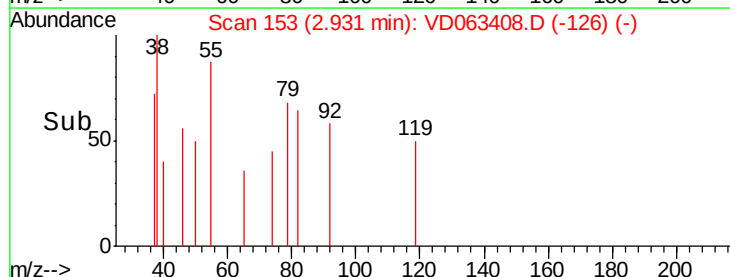
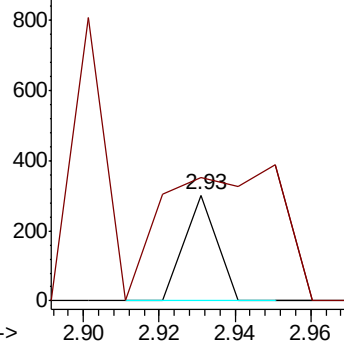
74 100

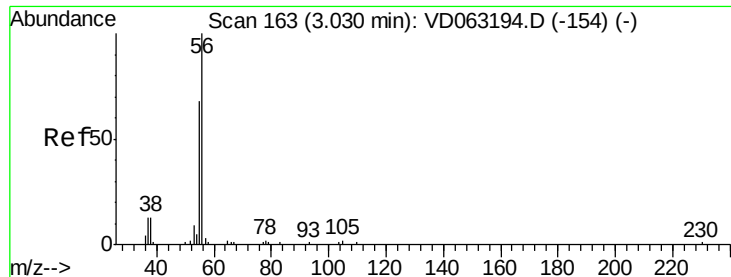
45 240.5 73.6 220.8#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#13

Acrolein

Concen: 8.765 ug/l

RT: 3.18 min Scan# 178

Delta R.T. 0.15 min

Lab File: VD063408.D

Acq: 6 Aug 2019 19:27

Instrument :

MSVOA_D

ClientSampleId :

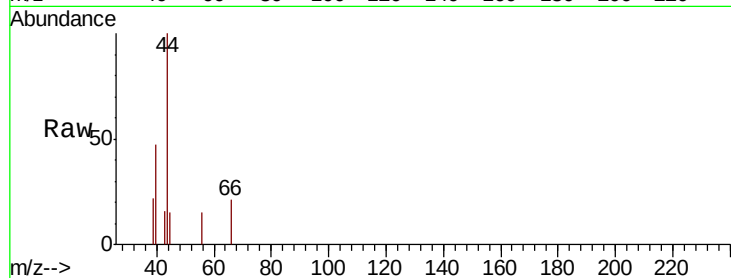
TRIPLE-BARREL-BC-WEST

Tgt Ion: 56 Resp: 210

Ion Ratio Lower Upper

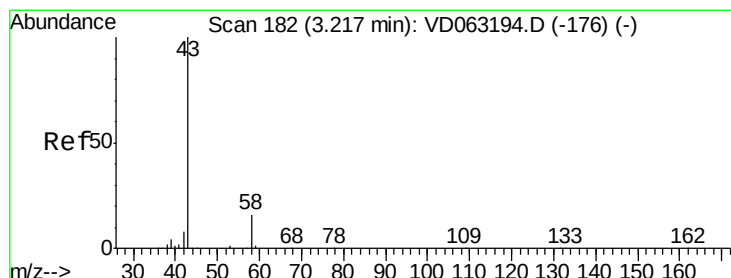
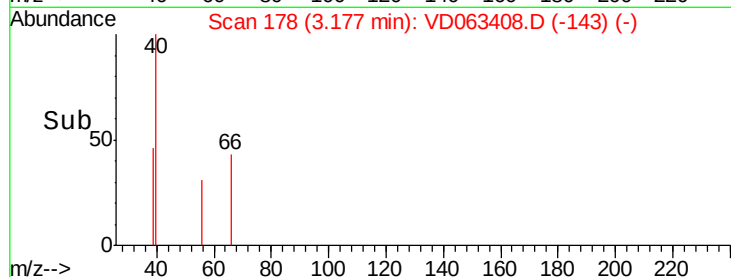
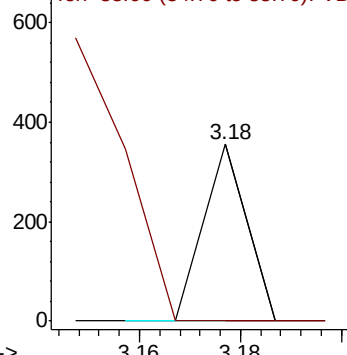
56 100

55 0.0 55.3 82.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 8.513 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063408.D

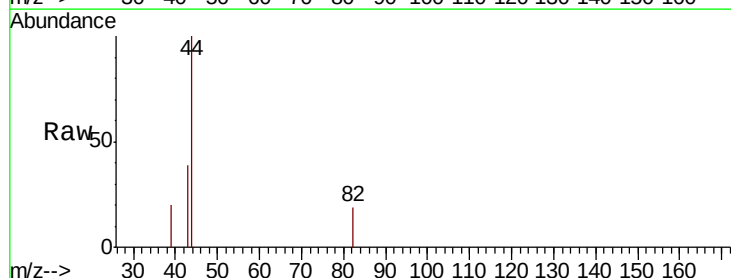
Acq: 6 Aug 2019 19:27

Tgt Ion: 43 Resp: 941

Ion Ratio Lower Upper

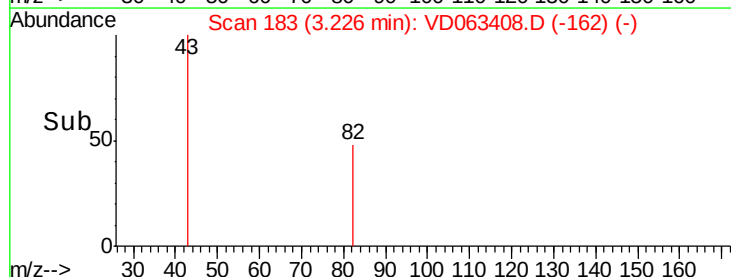
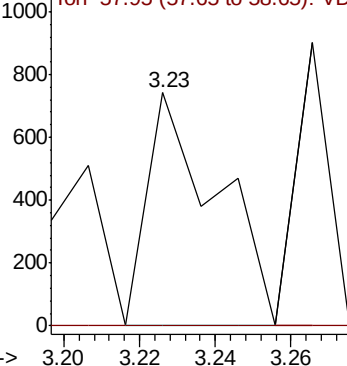
43 100

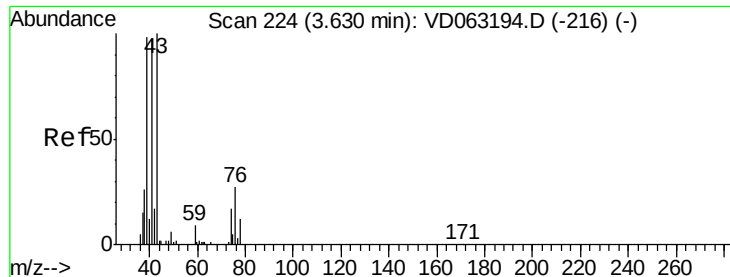
58 0.0 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

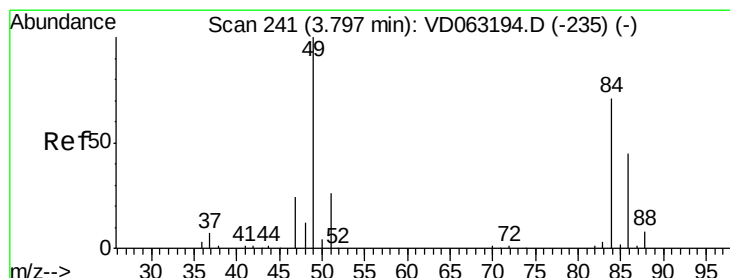
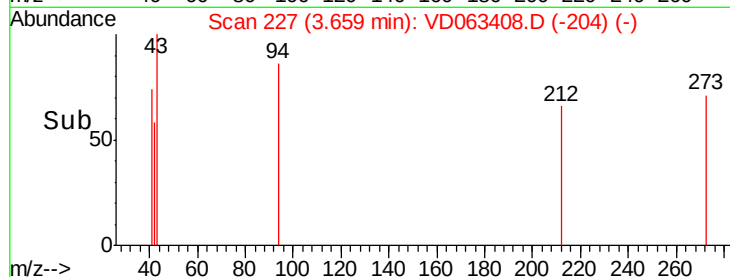
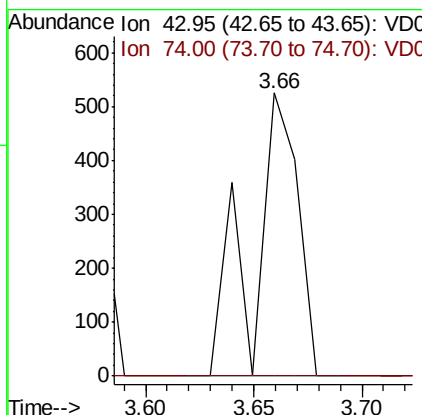
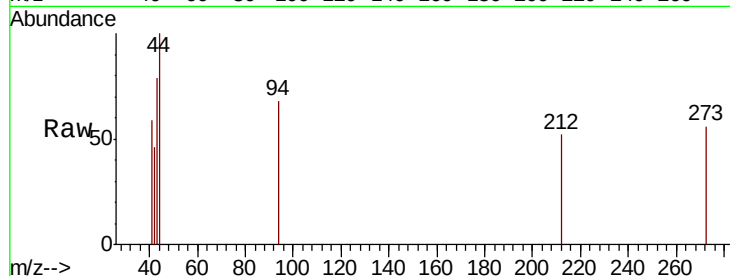




#18
Methyl Acetate
Concen: 3.575 ug/l
RT: 3.66 min Scan# 227
Delta R.T. 0.03 min
Lab File: VD063408.D
Acq: 6 Aug 2019 19:27

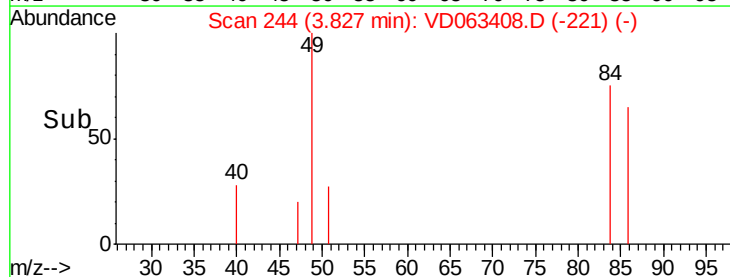
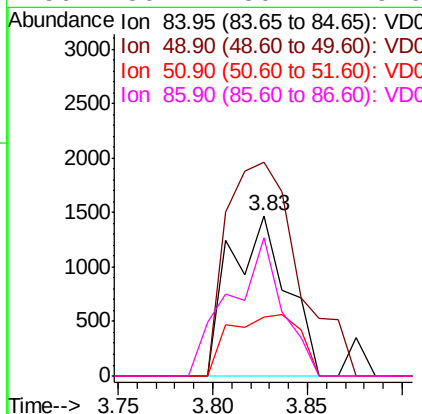
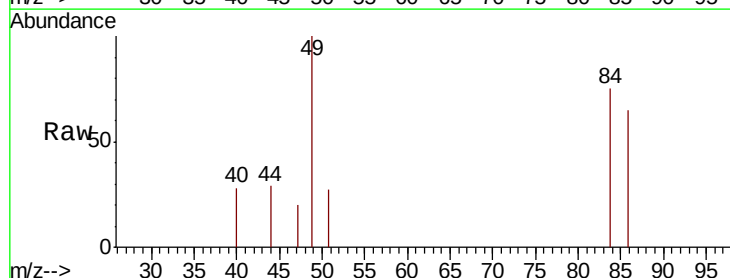
Instrument :
MSVOA_D
ClientSampleId :
TRIPLE-BARREL-BC-WEST

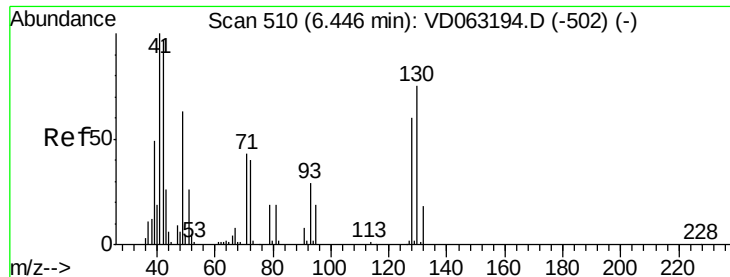
Tgt Ion: 43 Resp: 759
Ion Ratio Lower Upper
43 100
74 0.0 13.8 20.8#



#20
Methylene Chloride
Concen: 6.809 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.03 min
Lab File: VD063408.D
Acq: 6 Aug 2019 19:27

Tgt Ion: 84 Resp: 3042
Ion Ratio Lower Upper
84 100
49 133.2 112.5 168.7
51 36.5 29.6 44.4
86 86.2 50.4 75.6#





#29

Tetrahydrofuran

Concen: 61.007 ug/l

RT: 6.48 min Scan# 514

Delta R.T. 0.04 min

Lab File: VD063408.D

Acq: 6 Aug 2019 19:27

Instrument :

MSVOA_D

ClientSampleId :

TRIPLE-BARREL-BC-WEST

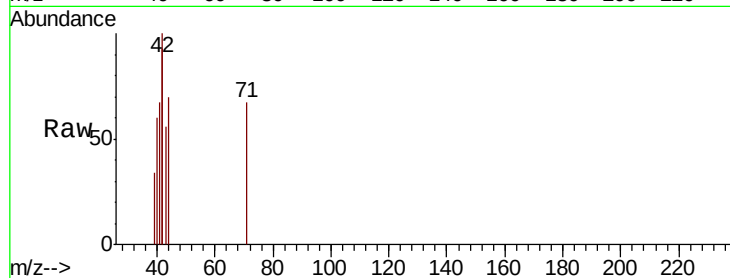
Tgt Ion: 42 Resp: 3204

Ion Ratio Lower Upper

42 100

72 15.6 33.4 50.2#

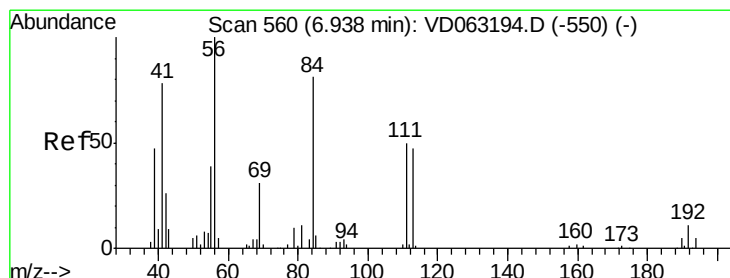
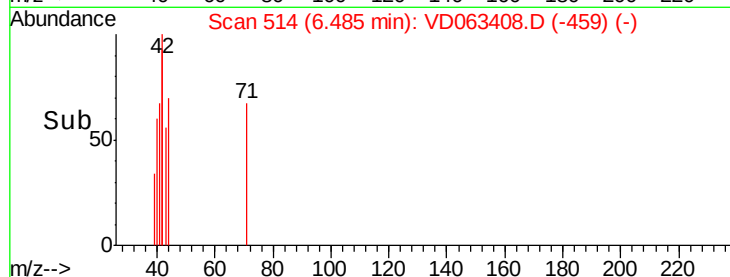
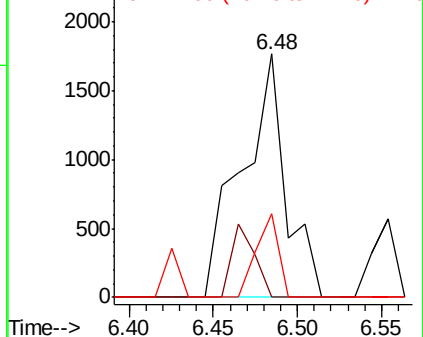
71 17.3 35.7 53.5#



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: 1.605 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD063408.D

Acq: 6 Aug 2019 19:27

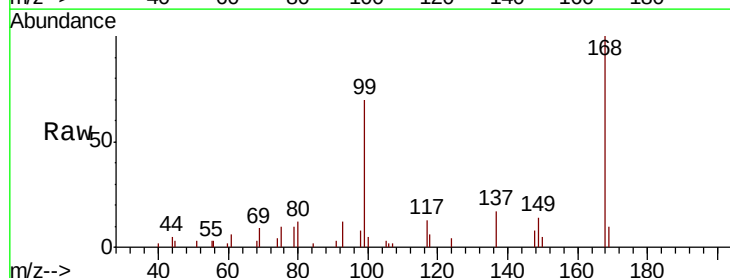
Tgt Ion: 56 Resp: 811

Ion Ratio Lower Upper

56 100

69 339.8 24.5 36.7#

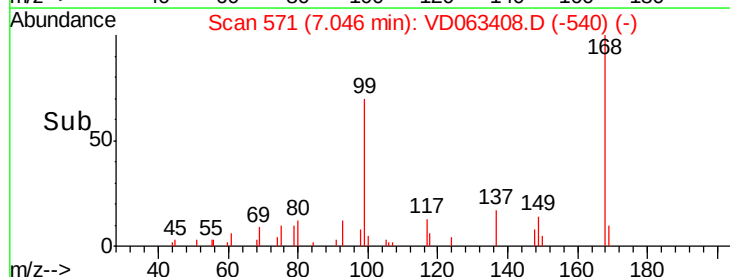
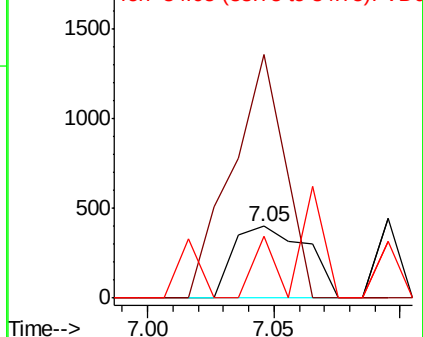
84 86.3 64.9 97.3

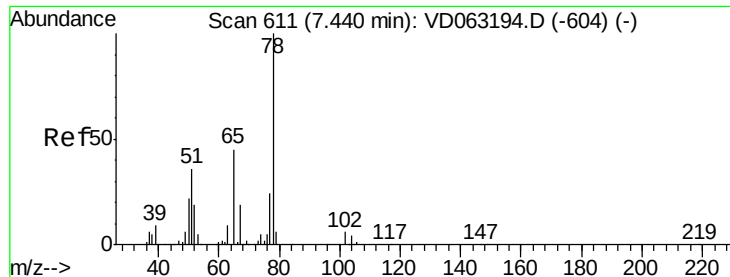


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 88.133 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.02 min

Lab File: VD063408.D

Acq: 6 Aug 2019 19:27

Instrument :

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ClientSampleId :

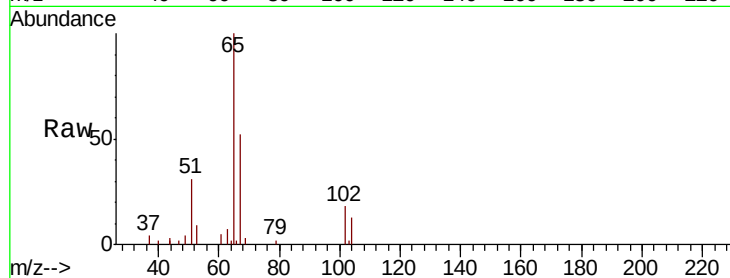
TRIPLE-BARREL-BC-WEST

Tgt Ion: 65 Resp: 49997

Ion Ratio Lower Upper

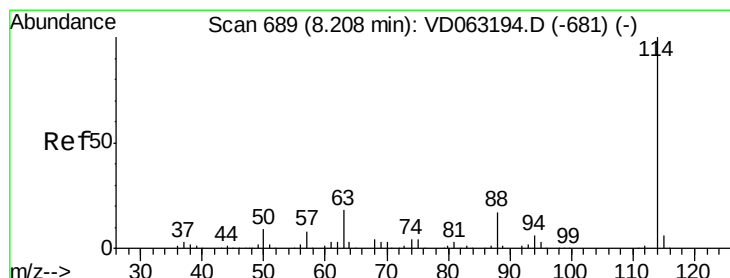
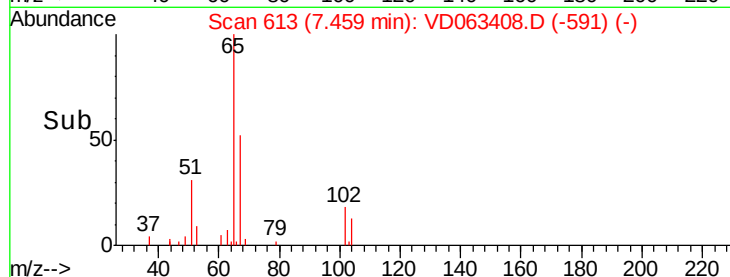
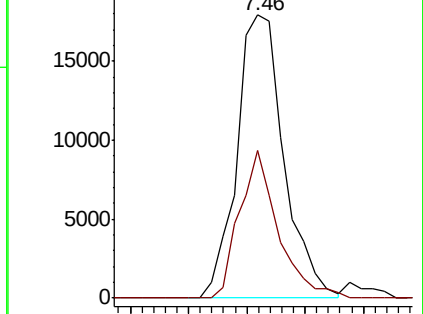
65 100

67 52.3 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: 8.23 min Scan# 691

Delta R.T. 0.02 min

Lab File: VD063408.D

Acq: 6 Aug 2019 19:27

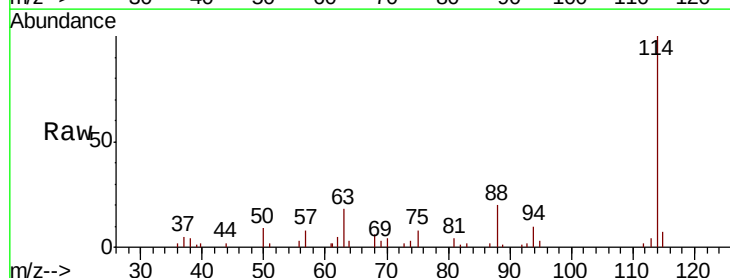
Tgt Ion: 114 Resp: 79549

Ion Ratio Lower Upper

114 100

63 18.2 0.0 35.2

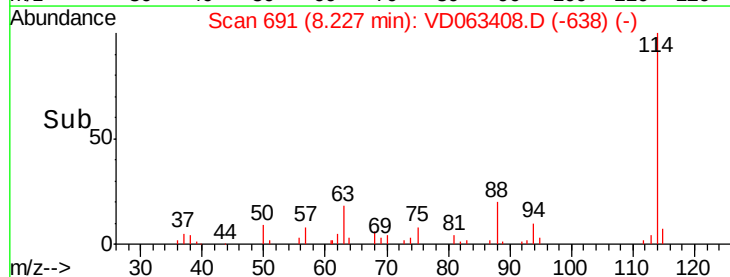
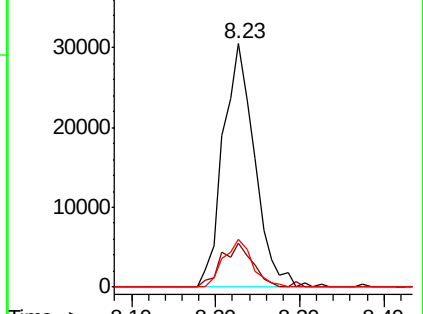
88 19.6 0.0 34.6

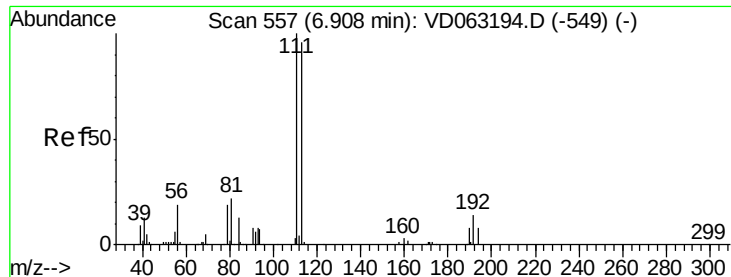


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 58.169 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.02 min

Lab File: VD063408.D

Acq: 6 Aug 2019 19:27

Instrument :

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TRIPLE-BARREL-BC-WEST

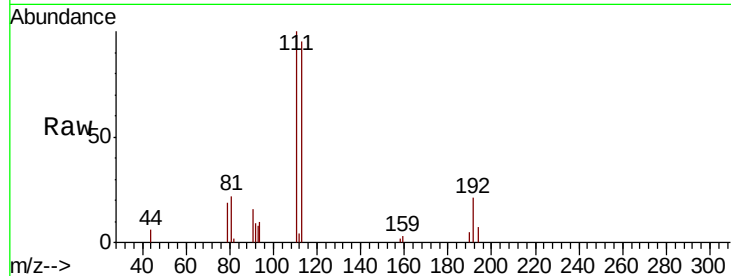
Tgt Ion:113 Resp: 39507

Ion Ratio Lower Upper

113 100

111 105.0 83.2 124.8

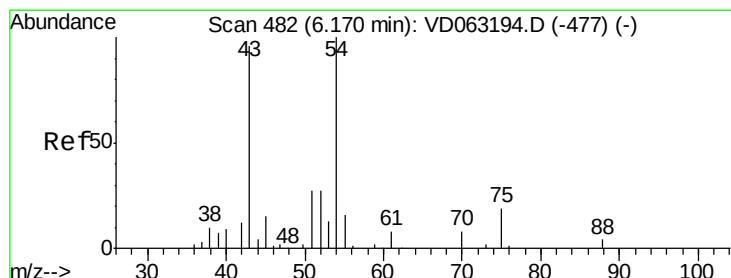
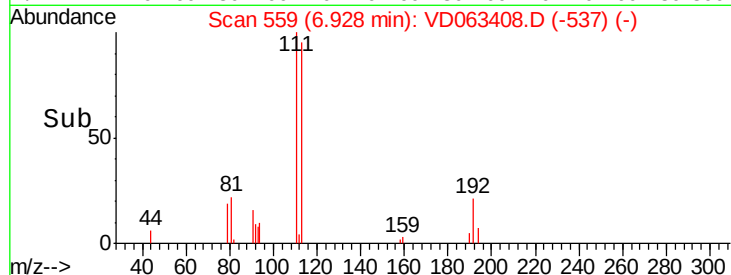
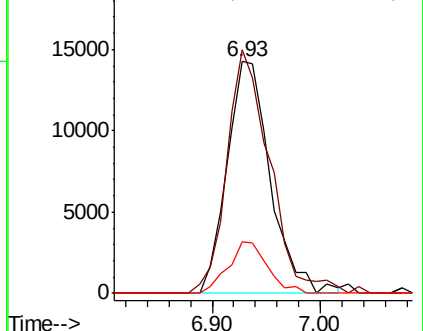
192 22.2 11.8 17.8#



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



#37

Ethyl Acetate

Concen: 1.515 ug/l

RT: 6.28 min Scan# 493

Delta R.T. 0.11 min

Lab File: VD063408.D

Acq: 6 Aug 2019 19:27

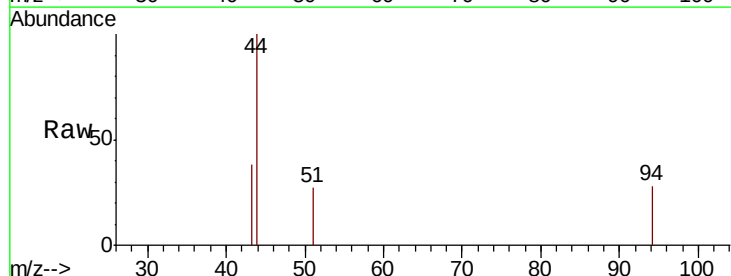
Tgt Ion: 43 Resp: 494

Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

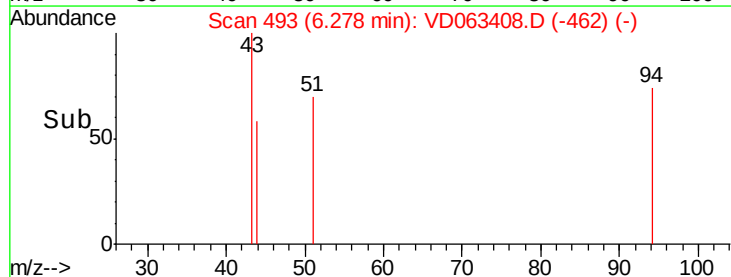
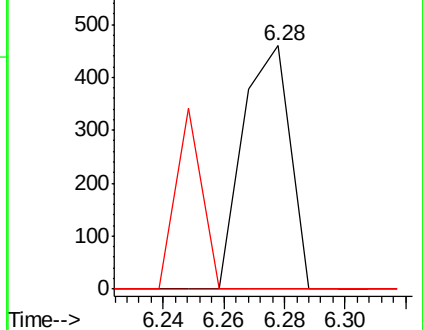
70 0.0 5.1 7.7#

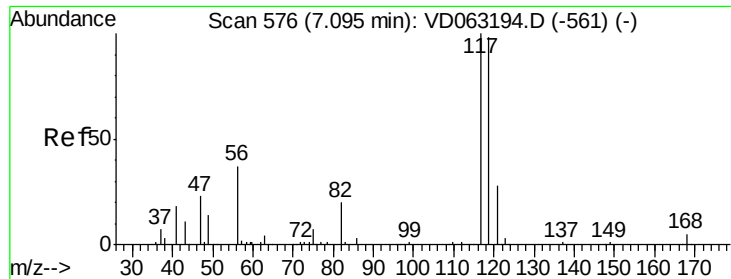


Abundance Ion 42.95 (42.65 to 43.65): V

Ion 60.95 (60.65 to 61.65): V

Ion 70.00 (69.70 to 70.70): V





#38

Carbon Tetrachloride

Concen: 5.936 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.05 min

Lab File: VD063408.D

Acq: 6 Aug 2019 19:27

Instrument :

MSVOA_D

ClientSampleId :

TRIPLE-BARREL-BC-WEST

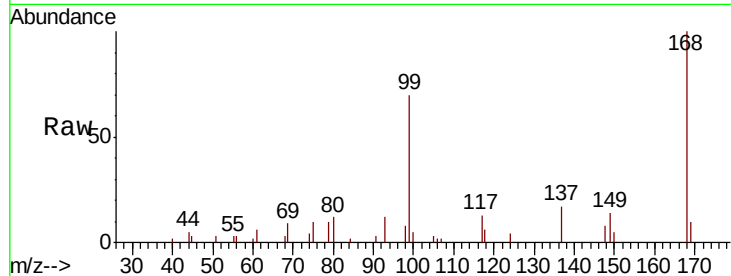
Tgt Ion:117 Resp: 6488

Ion Ratio Lower Upper

117 100

119 0.0 78.2 117.2#

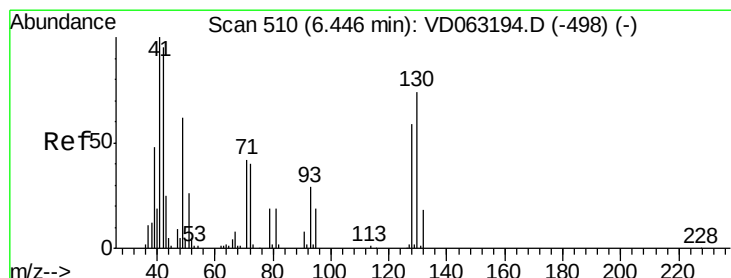
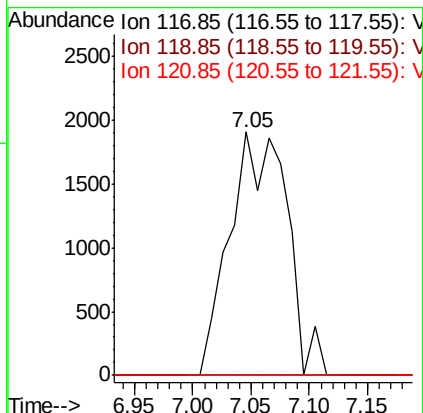
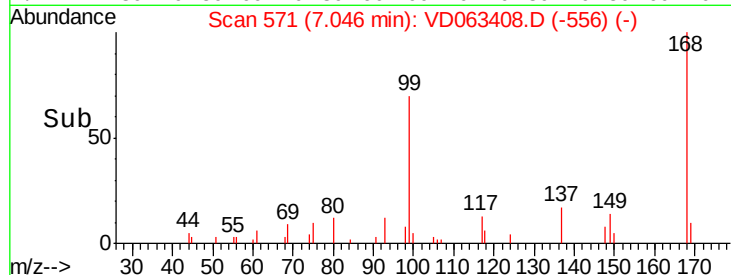
121 0.0 22.1 33.1#



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



#41

Methacrylonitrile

Concen: 5.113 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD063408.D

Acq: 6 Aug 2019 19:27

Tgt Ion: 41 Resp: 1995

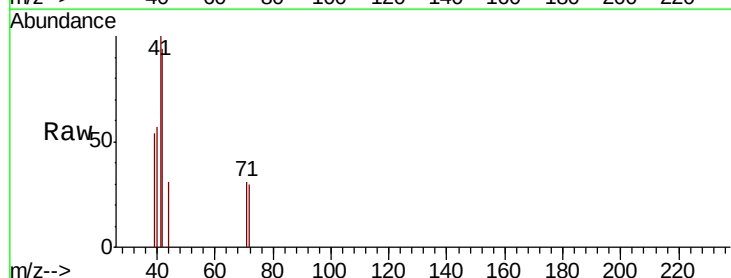
Ion Ratio Lower Upper

41 100

39 54.1 38.4 57.6

67 0.0 6.7 10.1#

52 0.0 4.3 6.5#

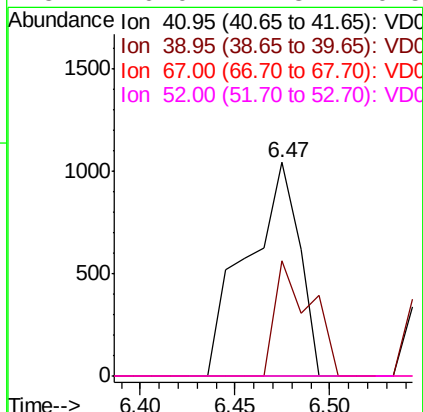
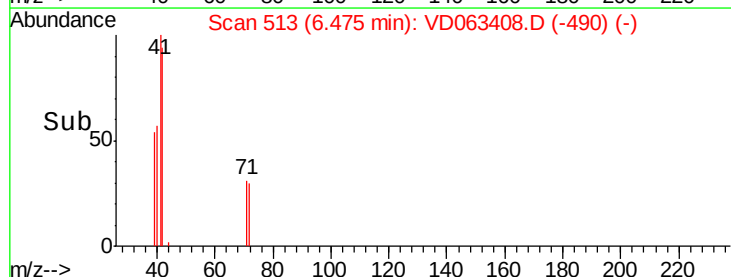


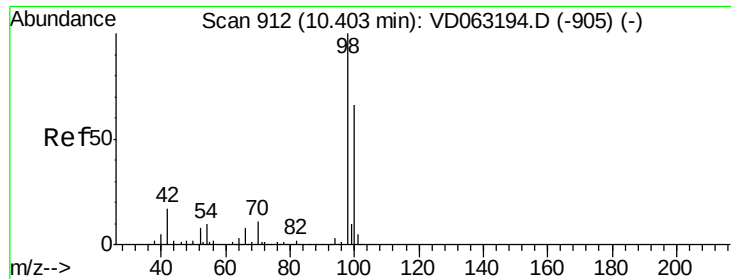
Abundance Ion 40.95 (40.65 to 41.65): V

Ion 38.95 (38.65 to 39.65): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V

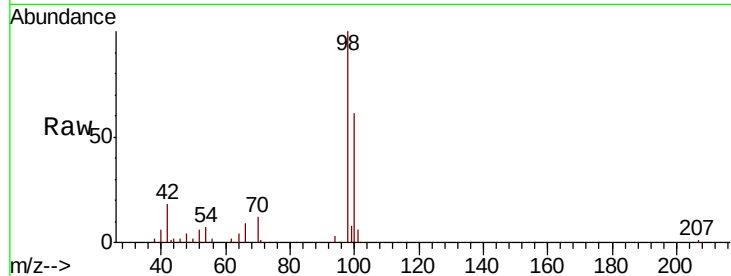




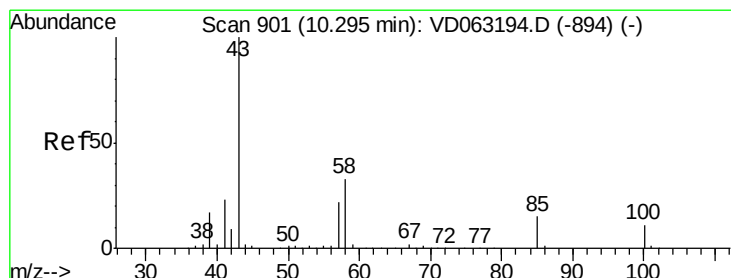
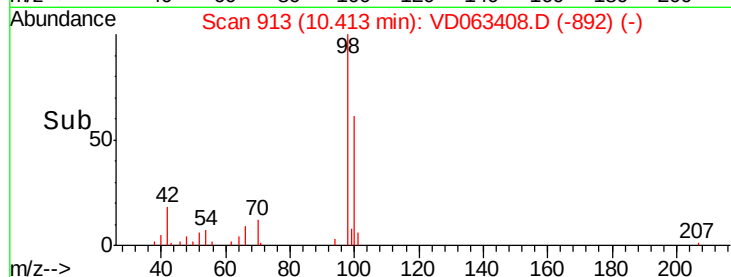
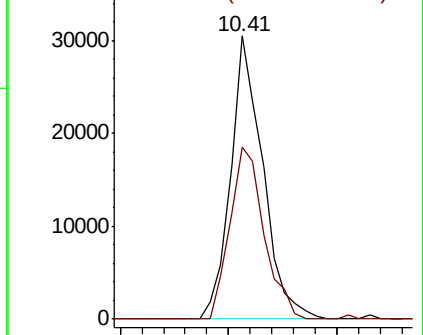
#50
Toluene-d8
Concen: 41.578 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063408.D
Acq: 6 Aug 2019 19:27

Instrument :
MSVOA_D
ClientSampleId :
TRIPLE-BARREL-BC-WEST

Tgt Ion: 98 Resp: 63199
Ion Ratio Lower Upper
98 100
100 60.6 53.2 79.8

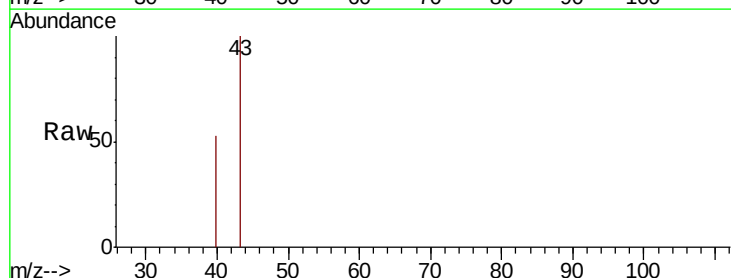


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

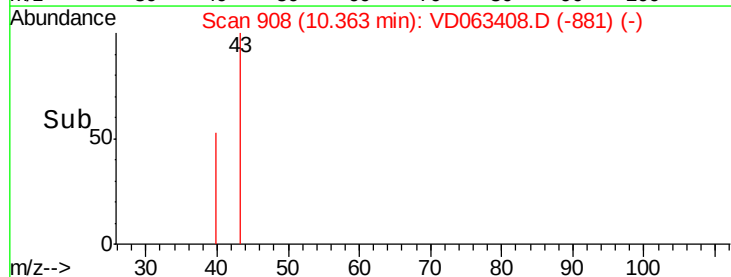
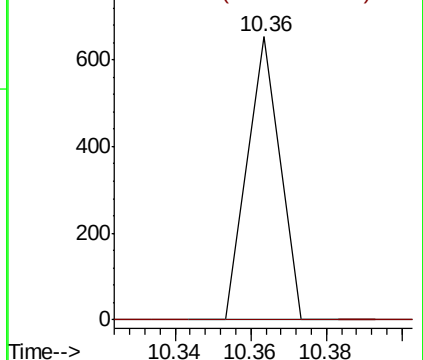


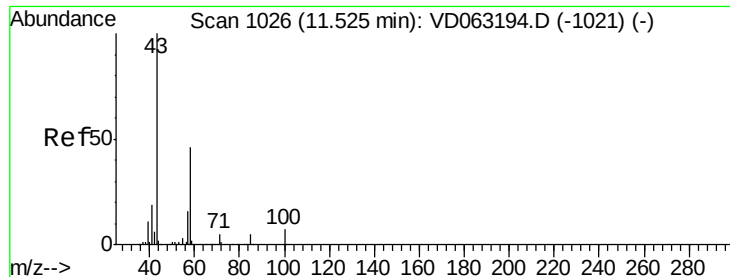
#51
4-Methyl-2-Pentanone
Concen: 1.362 ug/l
RT: 10.36 min Scan# 908
Delta R.T. 0.07 min
Lab File: VD063408.D
Acq: 6 Aug 2019 19:27

Tgt Ion: 43 Resp: 386
Ion Ratio Lower Upper
43 100
58 0.0 26.2 39.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

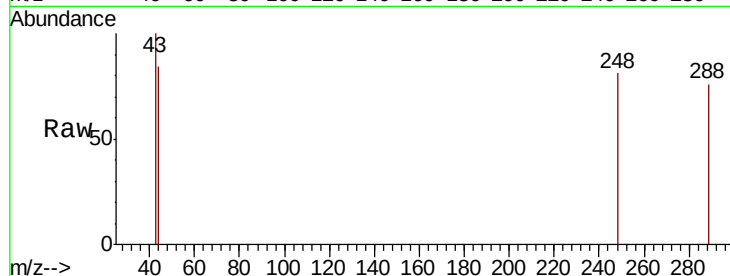




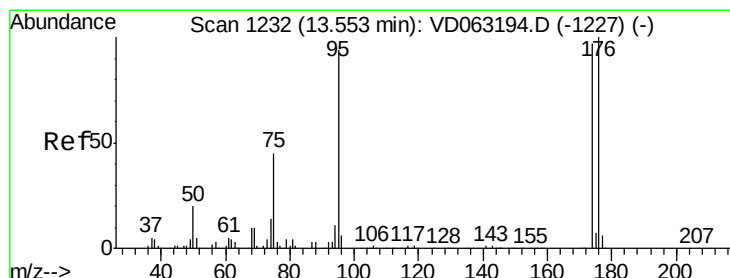
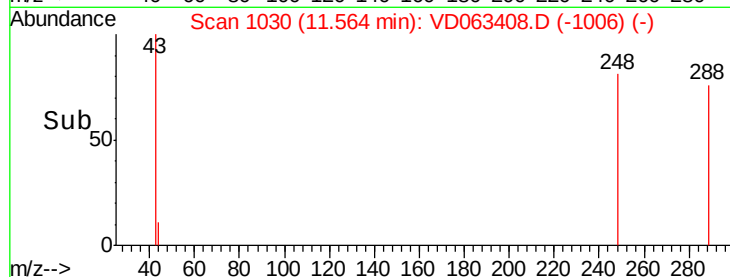
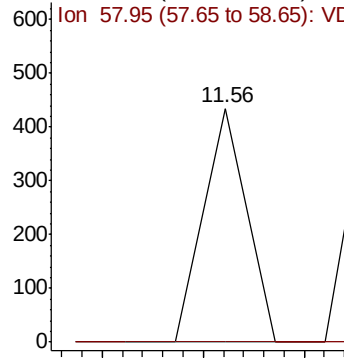
#59
2-Hexanone
Concen: 1.259 ug/l
RT: 11.56 min Scan# 1030
Delta R.T. 0.04 min
Lab File: VD063408.D
Acq: 6 Aug 2019 19:27

Instrument :
MSVOA_D
ClientSampleId :
TRIPLE-BARREL-BC-WEST

Tgt Ion: 43 Resp: 257
Ion Ratio Lower Upper
43 100
58 0.0 22.9 68.5#

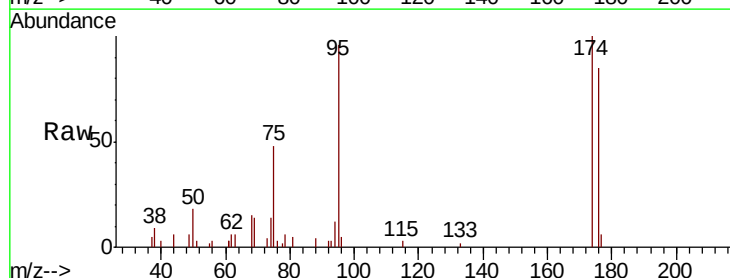


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

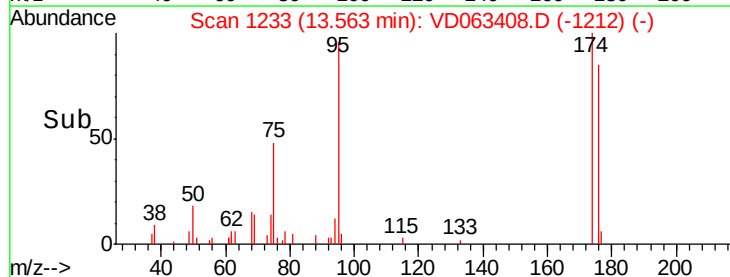
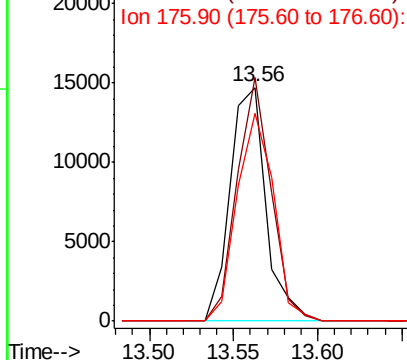


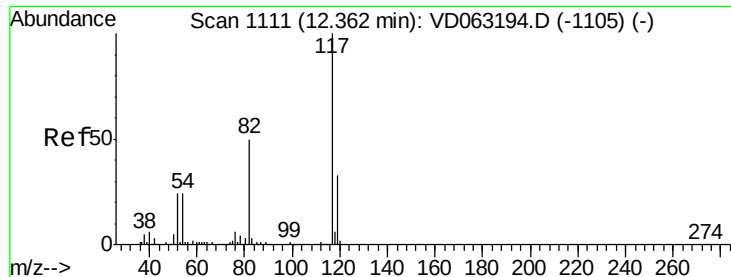
#62
4-Bromofluorobenzene
Concen: 31.472 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD063408.D
Acq: 6 Aug 2019 19:27

Tgt Ion: 95 Resp: 21799
Ion Ratio Lower Upper
95 100
174 104.1 0.0 205.4
176 89.0 0.0 211.8



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

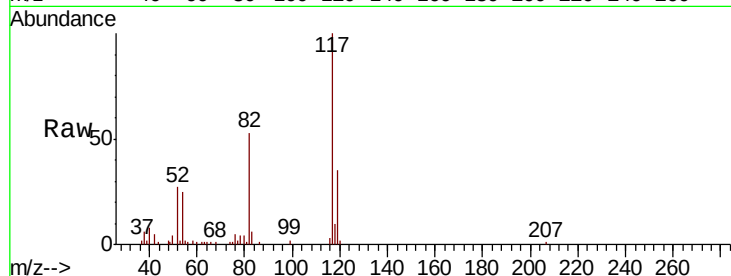




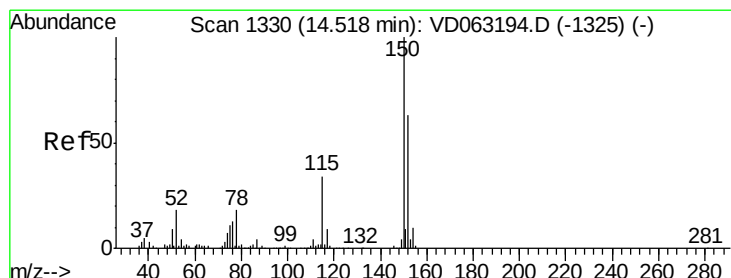
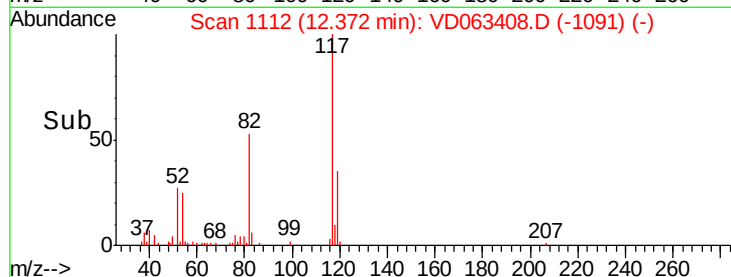
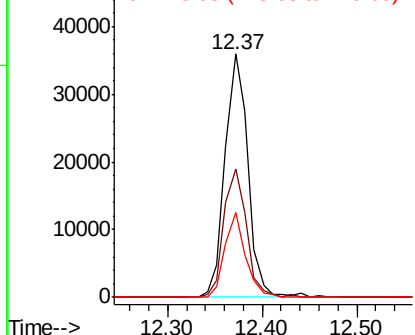
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063408.D
Acq: 6 Aug 2019 19:27

Instrument :
MSVOA_D
ClientSampleId :
TRIPLE-BARREL-BC-WEST

Tgt Ion:117 Resp: 60592
Ion Ratio Lower Upper
117 100
82 52.6 40.1 60.1
119 34.8 26.5 39.7

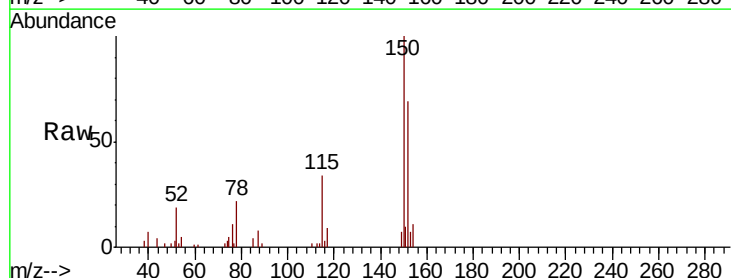


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

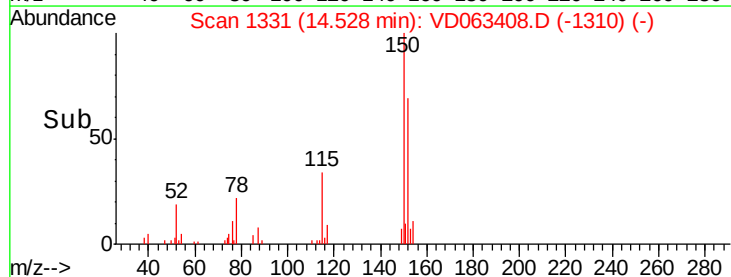
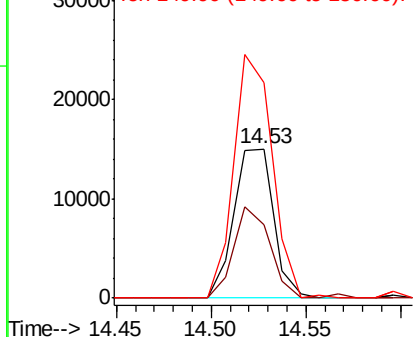


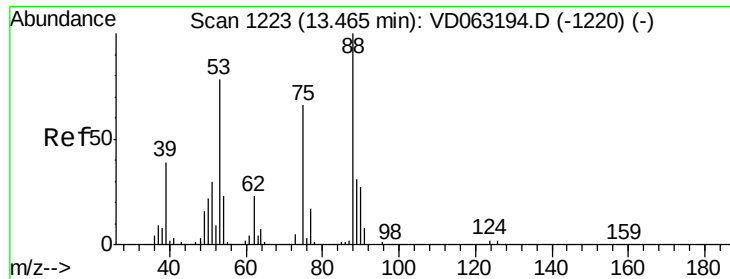
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD063408.D
Acq: 6 Aug 2019 19:27

Tgt Ion:152 Resp: 21762
Ion Ratio Lower Upper
152 100
115 49.1 27.5 82.4
150 144.3 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: 152.943 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063408.D

Acq: 6 Aug 2019 19:27

Instrument :

MSVOA_D

ClientSampleId :

TRIPLE-BARREL-BC-WEST

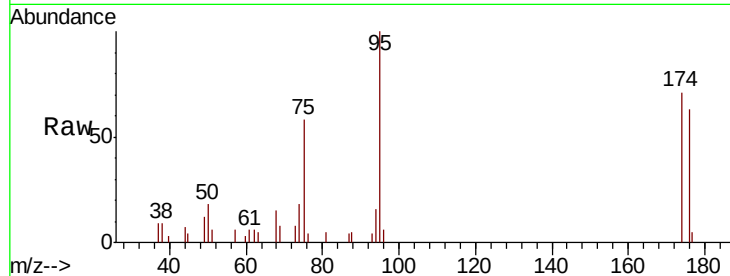
Tgt Ion: 75 Resp: 11101

Ion Ratio Lower Upper

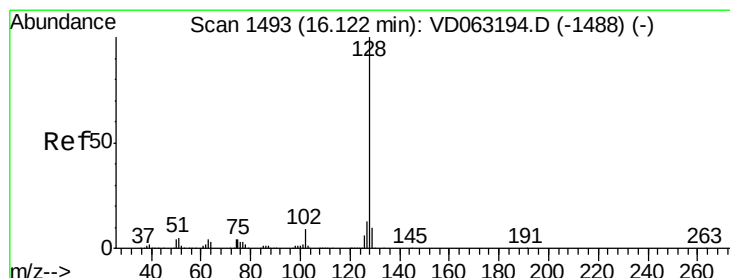
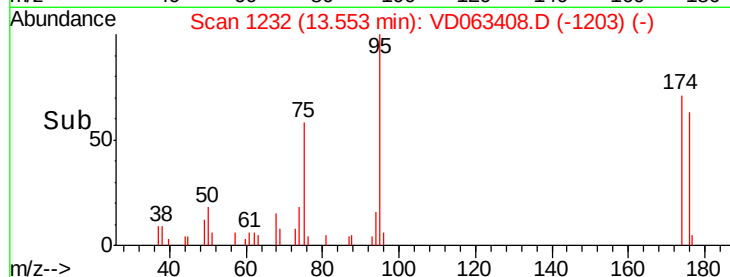
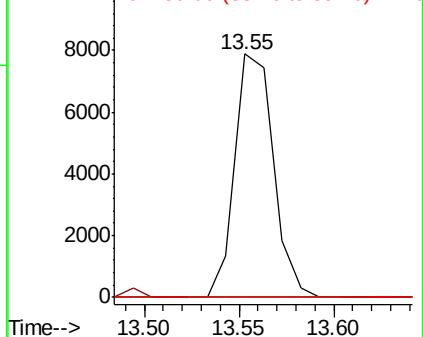
75 100

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: 1.953 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VD063408.D

Acq: 6 Aug 2019 19:27

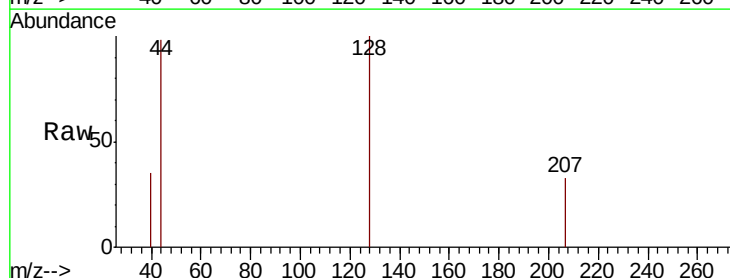
Tgt Ion: 128 Resp: 1315

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 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

