

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062419\
 Data File : VD062861.D
 Acq On : 25 Jun 2019 3:26
 Operator : VA/AP
 Sample : K3511-01
 Misc : 5.95µl/5ml/MSVOA D/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 COMP-1

Quant Time: Jun 25 05:08:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	598882	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	861739	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	581355	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	342703	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	338490	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
35) Dibromofluoromethane	6.93	113	423211	58.24	ug/l	0.00
Spiked Amount			Recovery	=	116.48%	
50) Toluene-d8	10.41	98	604024	38.19	ug/l	0.00
Spiked Amount			Recovery	=	76.38%	
62) 4-Bromofluorobenzene	13.56	95	341721	47.52	ug/l	0.00
Spiked Amount			Recovery	=	95.04%	

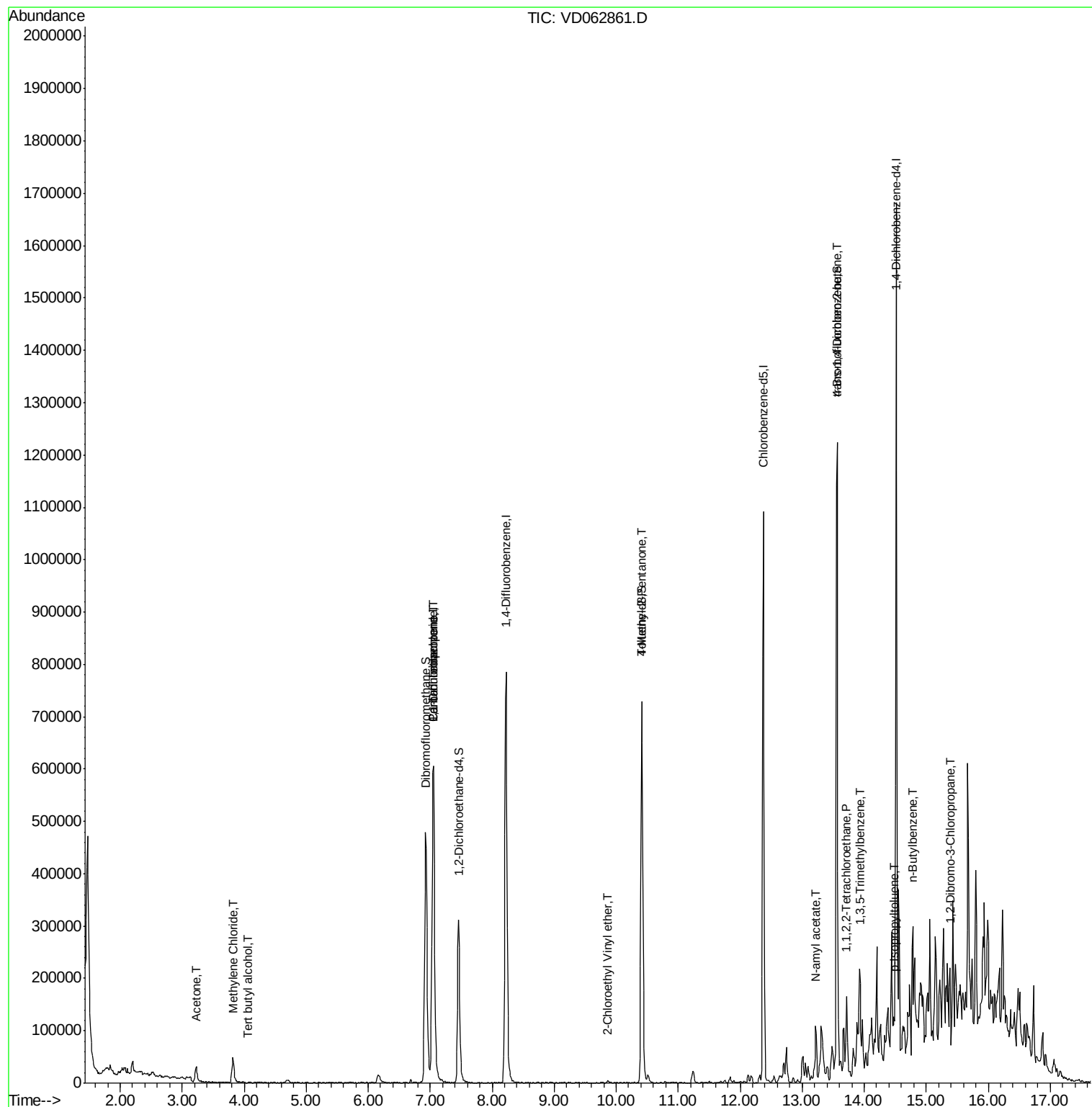
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.07	59	743	2.506	ug/l #	77
16) Acetone	3.23	43	56814	37.079	ug/l	96
20) Methylene Chloride	3.82	84	26537	5.345	ug/l	84
36) 1,1-Dichloropropene	7.05	75	45500	5.578	ug/l #	53
37) Ethyl Acetate	6.18	43	1258	Below Cal	#	7
38) Carbon Tetrachloride	7.06	117	58525	4.770	ug/l #	17
51) 4-Methyl-2-Pentanone	10.41	43	4083	1.347	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.86	63	2543	1.226	ug/l #	79
74) N-amyl acetate	13.22	43	14044	2.632	ug/l #	56
75) 1,1,2,2-Tetrachloroethane	13.72	83	9615	2.686	ug/l #	61
80) 1,3,5-Trimethylbenzene	13.94	105	50812	2.753	ug/l	92
81) trans-1,4-Dichloro-2-buten	13.55	75	151452	146.066	ug/l #	2
86) p-Isopropyltoluene	14.49	119	23475	1.148	ug/l	93
89) n-Butylbenzene	14.78	91	23348	1.219	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	15.37	75	833	1.192	ug/l #	14

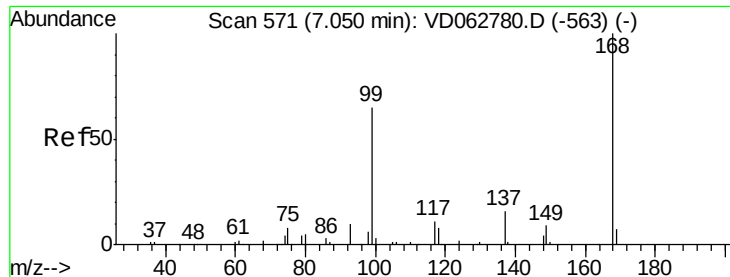
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062419\
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QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD062861.D

Acq: 25 Jun 2019 3:26

Instrument :

MSVOA_D

ClientSampleId :

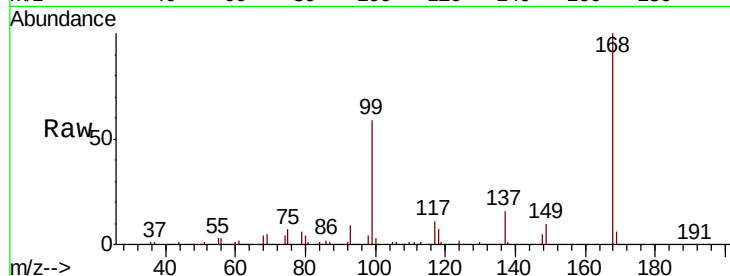
COMP-1

Tot Ion:168 Resp: 598882

Ion Ratio Lower Upper

168 100

99 59.1 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

250000

200000

150000

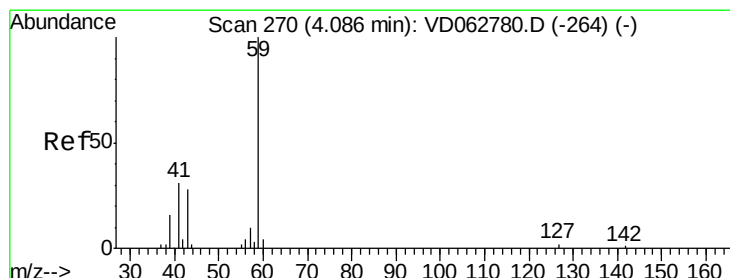
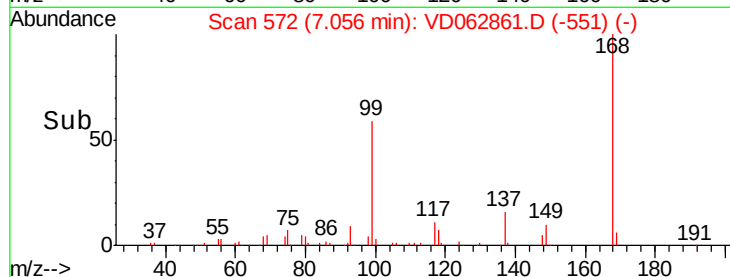
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 2.506 ug/l

RT: 4.07 min Scan# 269

Delta R.T. -0.01 min

Lab File: VD062861.D

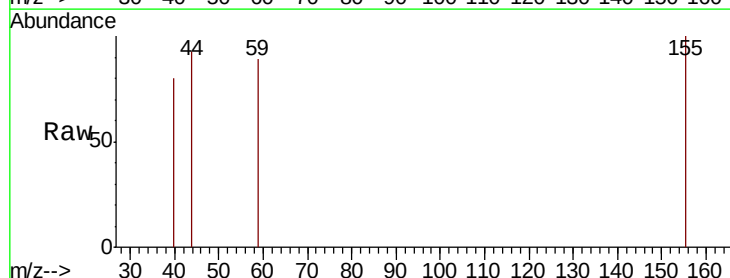
Acq: 25 Jun 2019 3:26

Tgt Ion: 59 Resp: 743

Ion Ratio Lower Upper

59 100

57 0.0 6.6 10.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.07

500

400

300

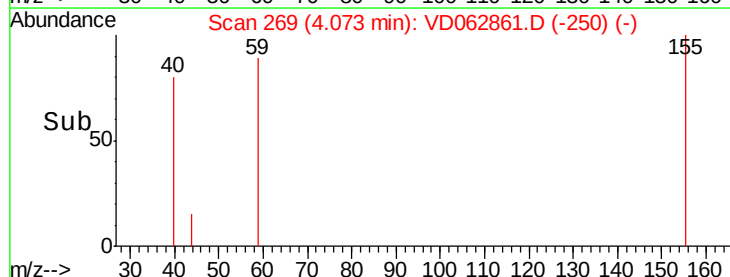
200

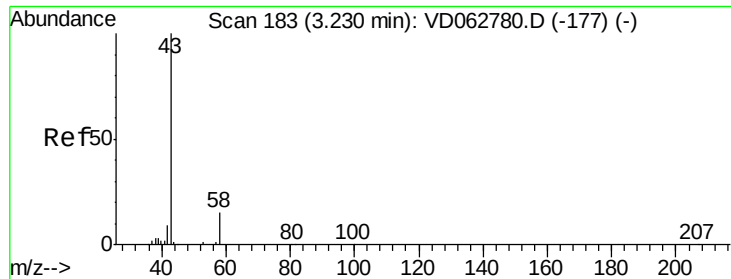
100

0

Time-->

4.05 4.10





#16

Acetone

Concen: 37.079 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD062861.D

Acq: 25 Jun 2019 3:26

Instrument :

MSVOA_D

ClientSampleId :

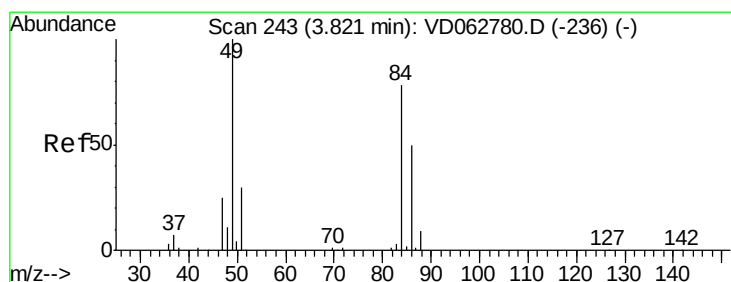
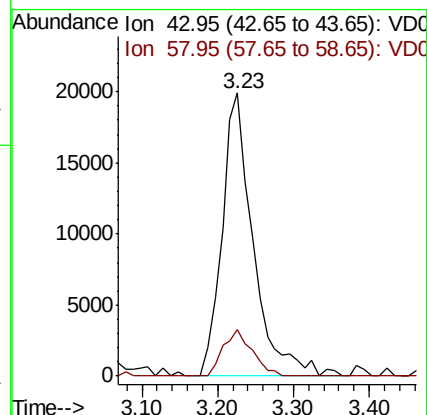
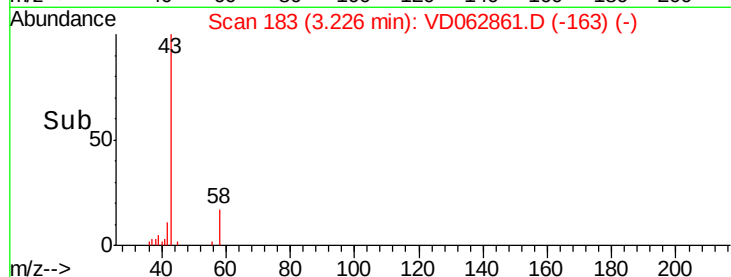
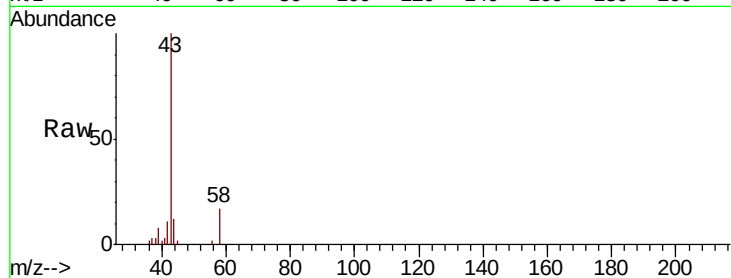
COMP-1

Tot Ion: 43 Resp: 56814

Ion Ratio Lower Upper

43 100

58 16.5 11.9 17.9



#20

Methylene Chloride

Concen: 5.345 ug/l

RT: 3.82 min Scan# 243

Delta R.T. -0.00 min

Lab File: VD062861.D

Acq: 25 Jun 2019 3:26

Tgt Ion: 84 Resp: 26537

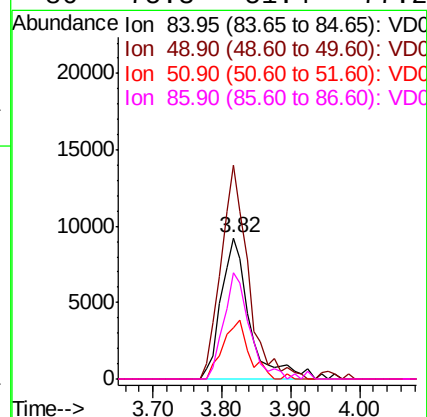
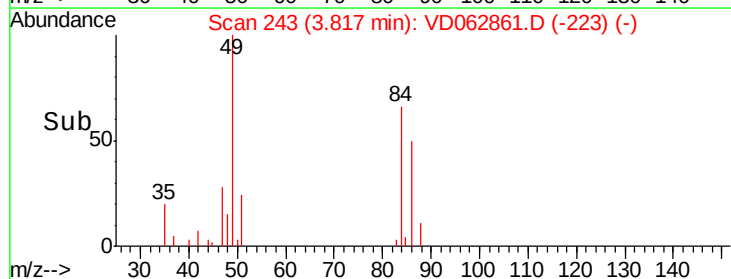
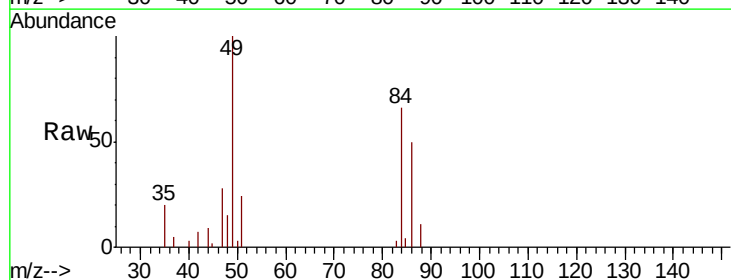
Ion Ratio Lower Upper

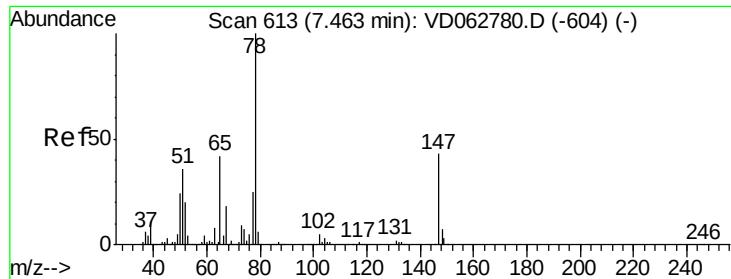
84 100

49 151.5 102.9 154.3

51 36.4 31.2 46.8

86 75.3 51.4 77.2





#33

1,2-Dichloroethane-d4

Concen: 51.997 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD062861.D

Acq: 25 Jun 2019 3:26

Instrument :

MSVOA_D

ClientSampleId :

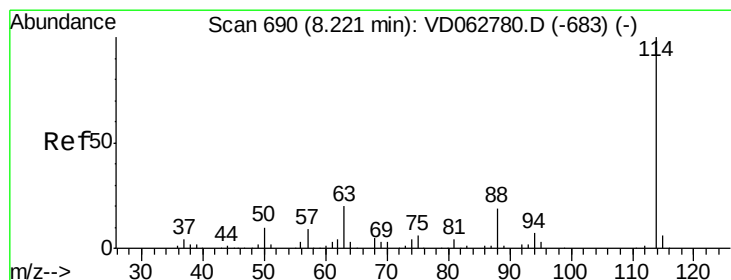
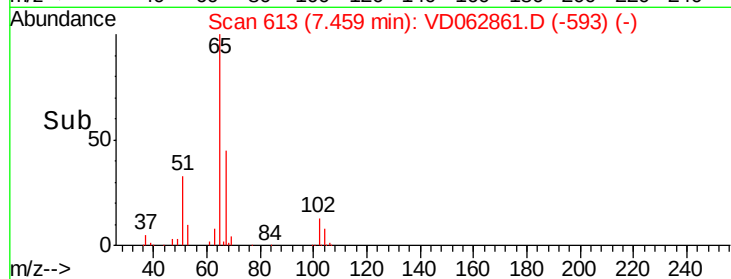
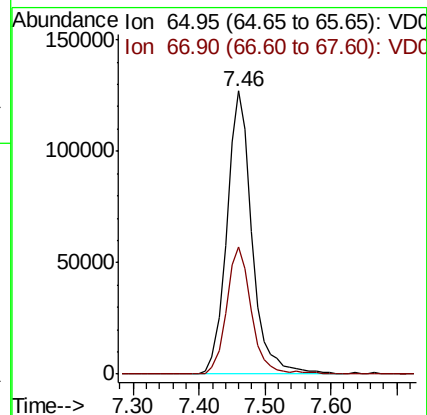
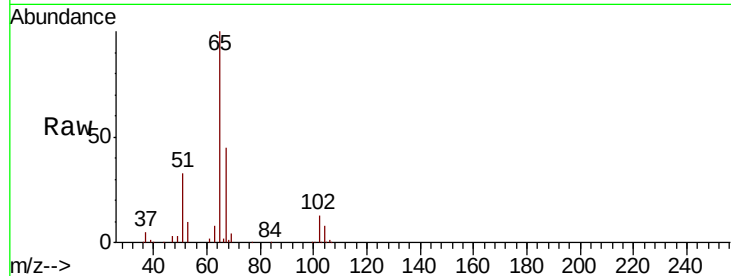
COMP-1

Tot Ion: 65 Resp: 338490

Ion Ratio Lower Upper

65 100

67 45.2 0.0 87.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD062861.D

Acq: 25 Jun 2019 3:26

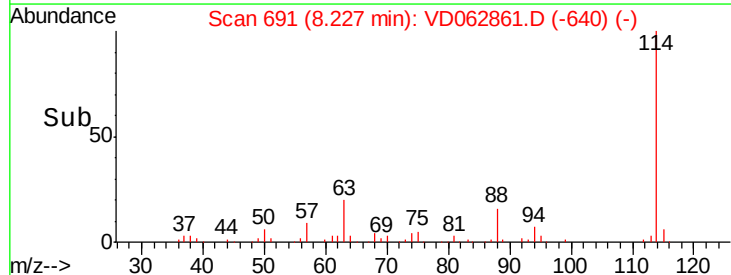
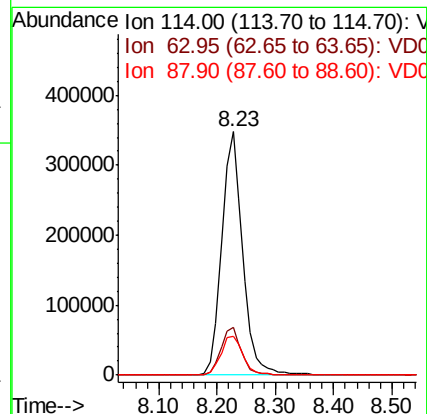
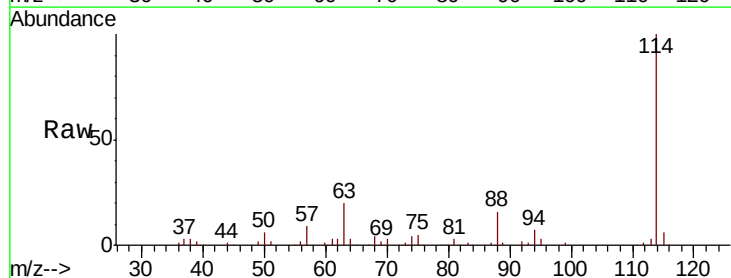
Tgt Ion: 114 Resp: 861739

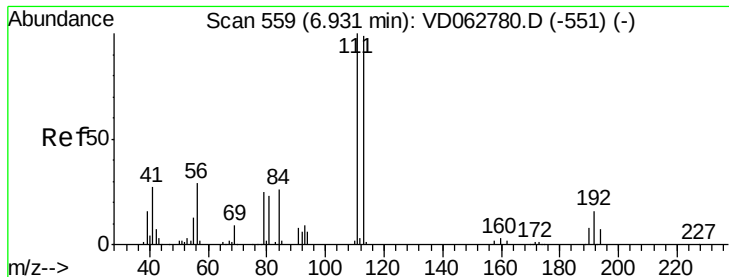
Ion Ratio Lower Upper

114 100

63 19.5 0.0 40.0

88 16.0 0.0 38.8





#35

Dibromofluoromethane

Concen: 58.244 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.00 min

Lab File: VD062861.D

Acq: 25 Jun 2019 3:26

Instrument :

MSVOA_D

ClientSampleId :

COMP-1

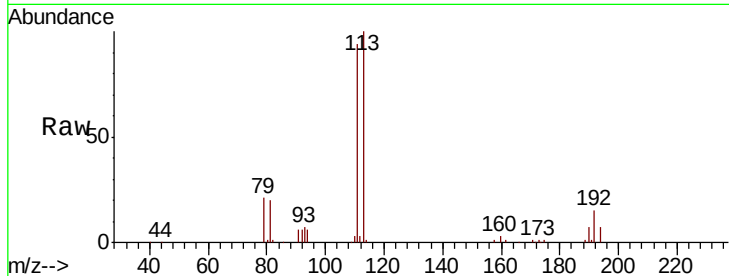
Tot Ion:113 Resp: 423211

Ion Ratio Lower Upper

113 100

111 94.1 81.2 121.8

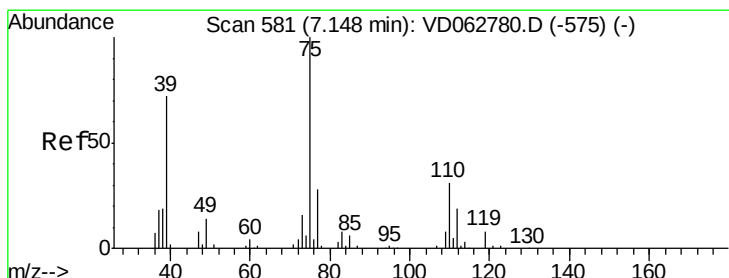
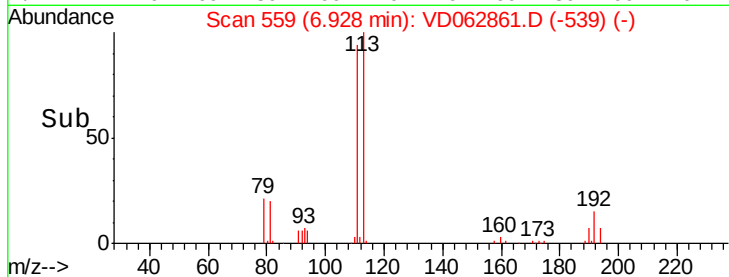
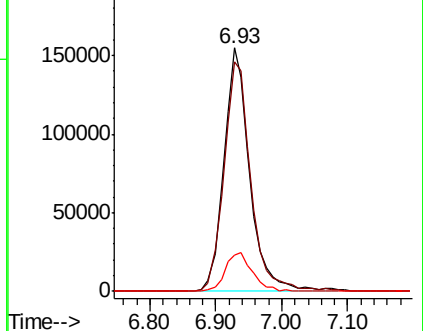
192 15.0 12.9 19.3



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: 5.578 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD062861.D

Acq: 25 Jun 2019 3:26

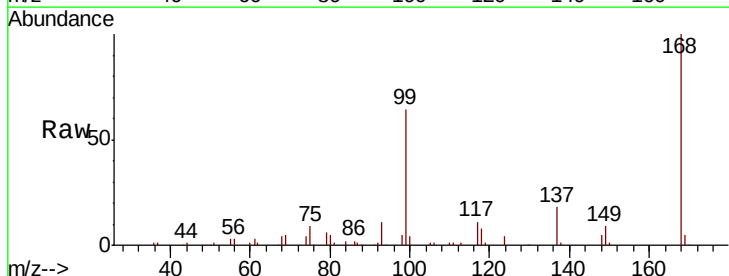
Tgt Ion: 75 Resp: 45500

Ion Ratio Lower Upper

75 100

110 7.3 15.0 45.1#

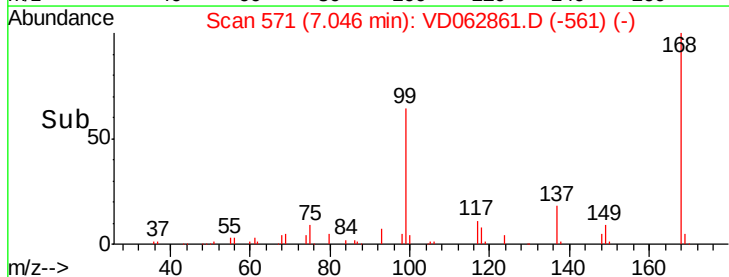
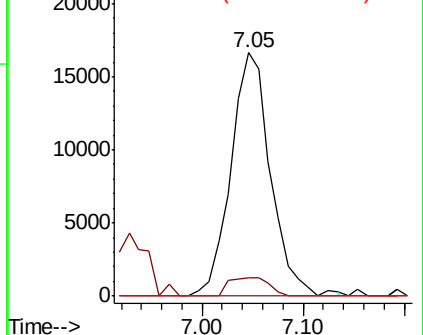
77 0.0 22.2 33.2#

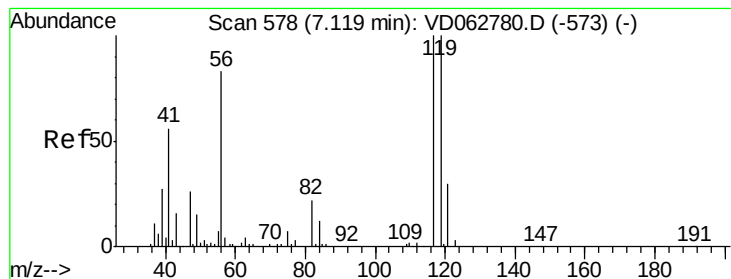


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 4.770 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.06 min

Lab File: VD062861.D

Acq: 25 Jun 2019 3:26

Instrument :

MSVOA_D

ClientSampleId :

COMP-1

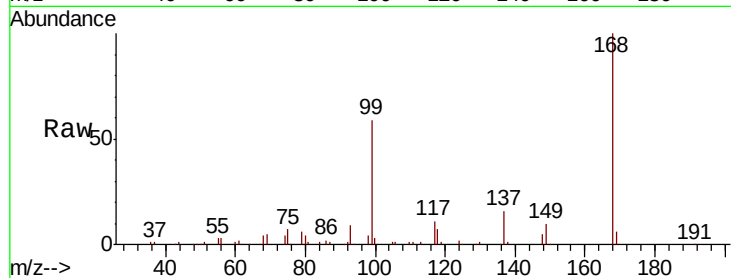
Tot Ion:117 Resp: 58525

Ion Ratio Lower Upper

117 100

119 5.6 75.4 113.2#

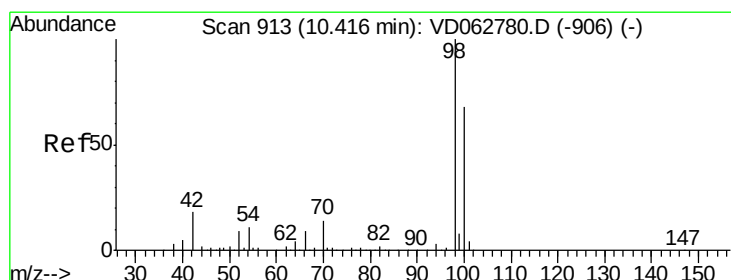
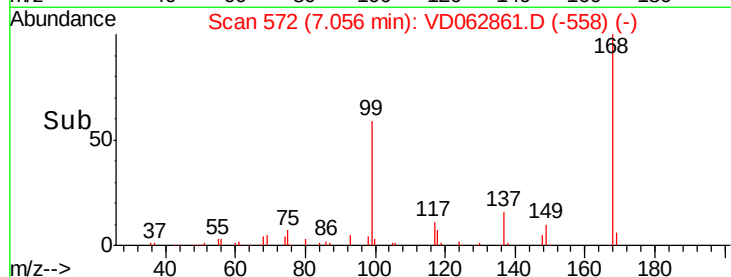
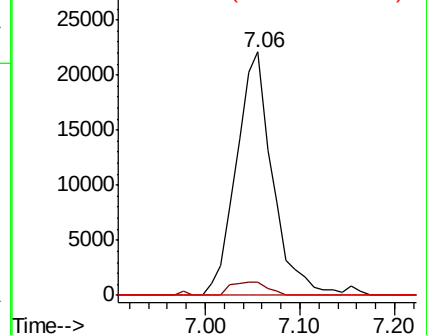
121 0.0 22.3 33.5#



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: 38.194 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD062861.D

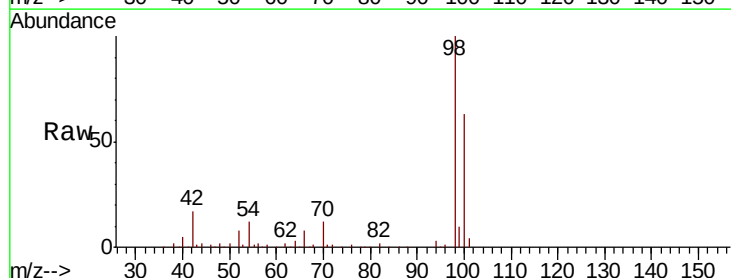
Acq: 25 Jun 2019 3:26

Tgt Ion: 98 Resp: 604024

Ion Ratio Lower Upper

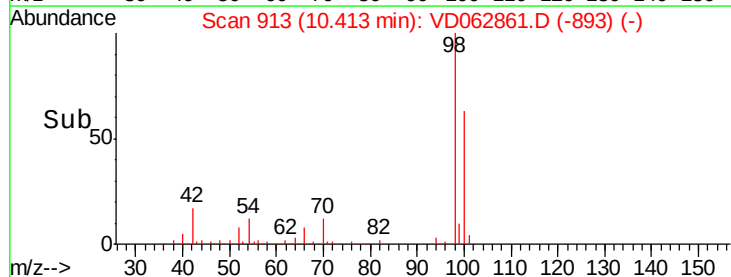
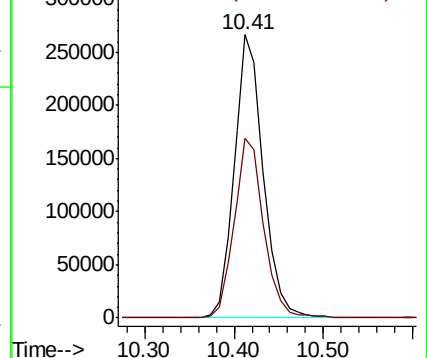
98 100

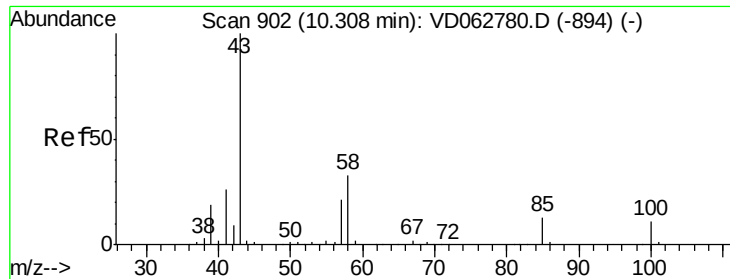
100 63.3 54.7 82.1



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: 1.347 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.10 min

Lab File: VD062861.D

Acq: 25 Jun 2019 3:26

Instrument :

MSVOA_D

ClientSampleId :

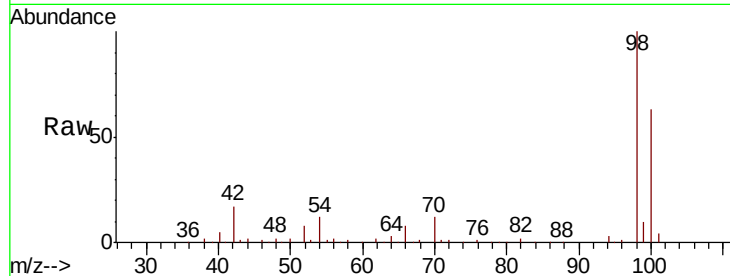
COMP-1

Tot Ion: 43 Resp: 4083

Ion Ratio Lower Upper

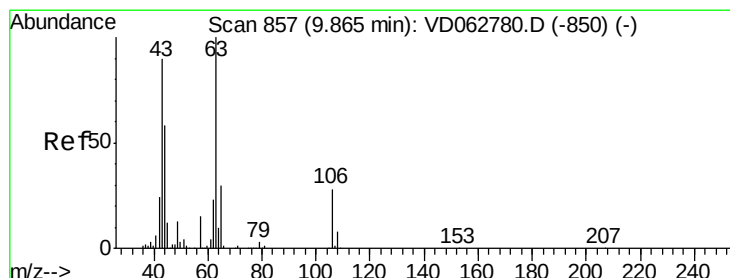
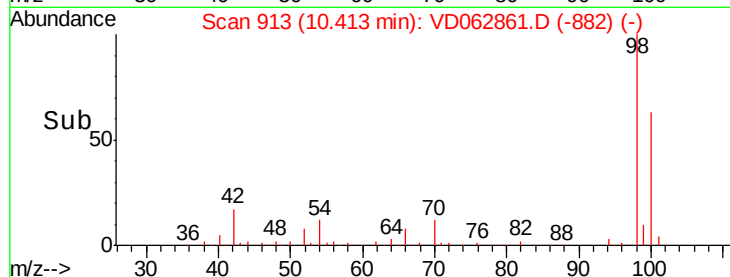
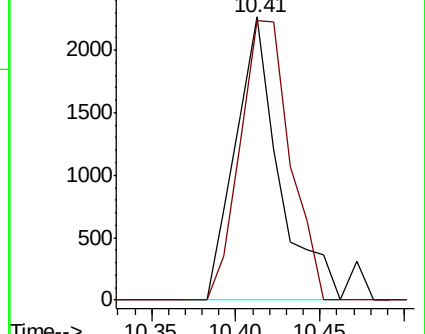
43 100

58 98.7 26.6 40.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 1.226 ug/l

RT: 9.86 min Scan# 857

Delta R.T. -0.00 min

Lab File: VD062861.D

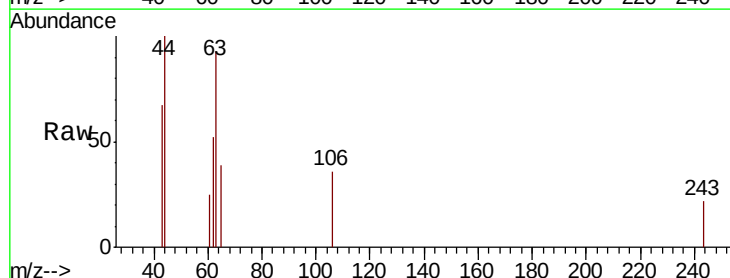
Acq: 25 Jun 2019 3:26

Tgt Ion: 63 Resp: 2543

Ion Ratio Lower Upper

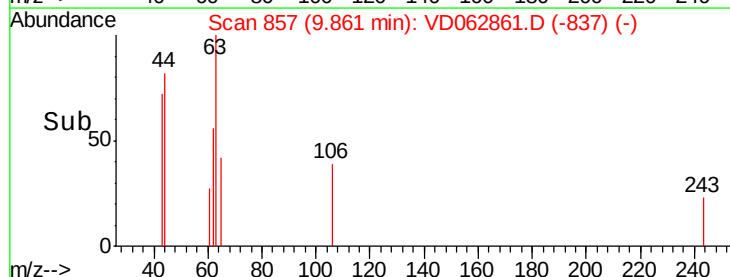
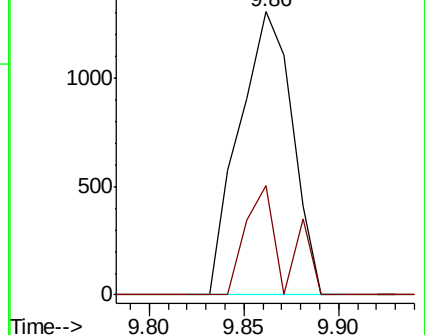
63 100

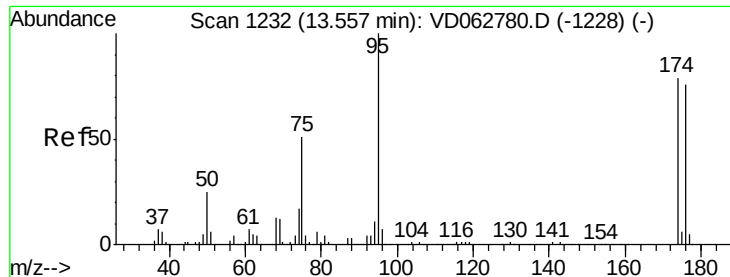
106 38.7 22.1 33.1#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC





#62

4-Bromofluorobenzene

Concen: 47.521 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062861.D

Acq: 25 Jun 2019 3:26

Instrument :

MSVOA_D

ClientSampleId :

COMP-1

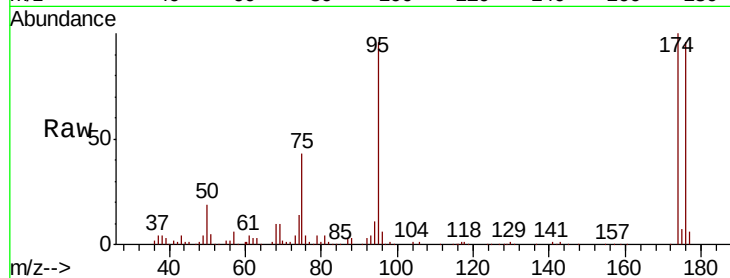
Tot Ion: 95 Resp: 341721

Ion Ratio Lower Upper

95 100

174 104.2 0.0 158.0

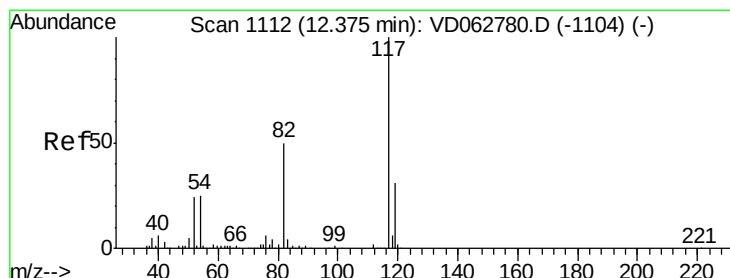
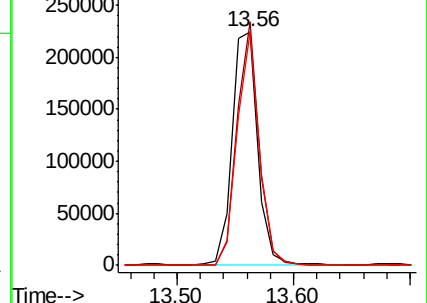
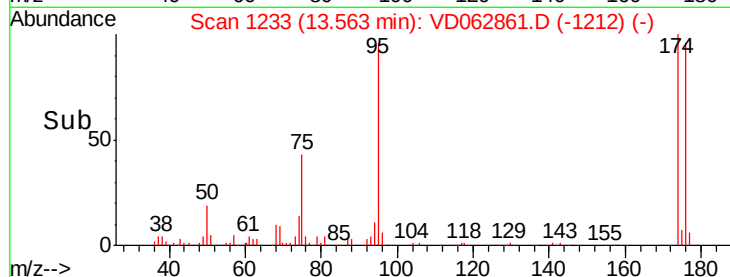
176 99.7 0.0 151.6



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: VD062861.D

Acq: 25 Jun 2019 3:26

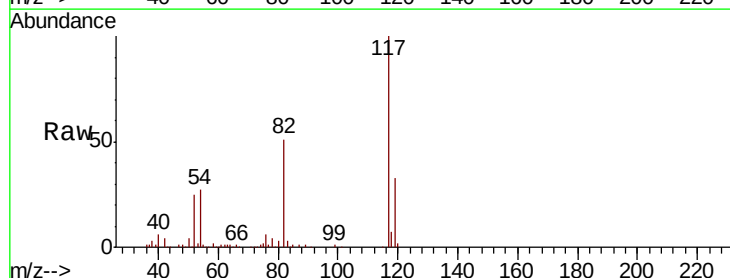
Tgt Ion: 117 Resp: 581355

Ion Ratio Lower Upper

117 100

82 50.9 40.4 60.6

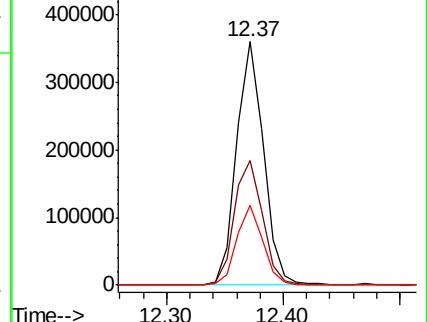
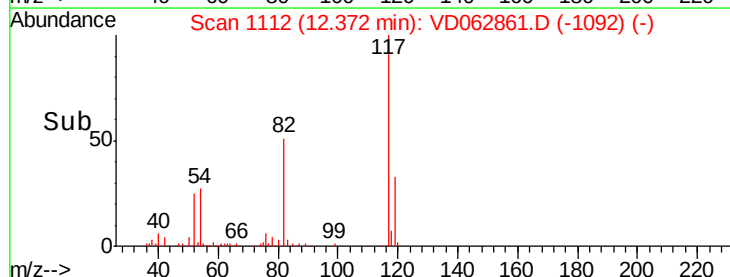
119 32.5 25.2 37.8

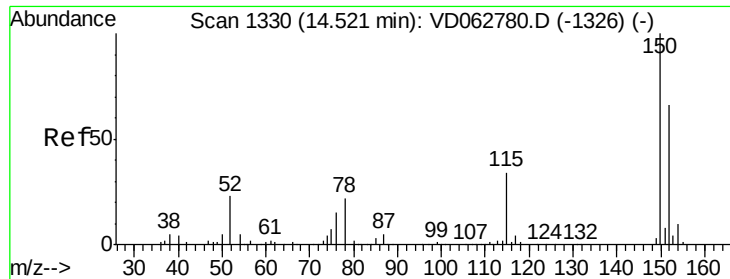


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD062861.D

Acq: 25 Jun 2019 3:26

Instrument :

MSVOA_D

ClientSampleId :

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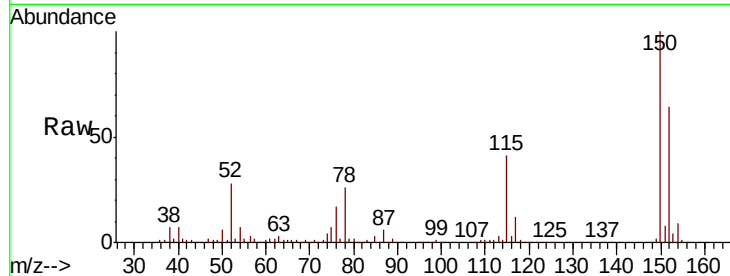
Tot Ion:152 Resp: 342703

Ion Ratio Lower Upper

152 100

115 64.3 29.2 87.6

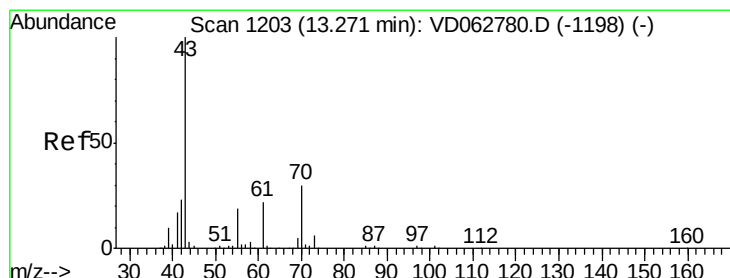
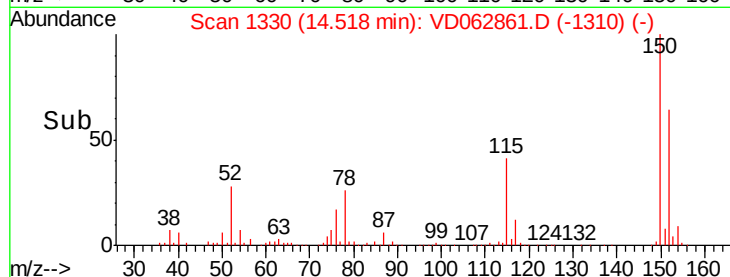
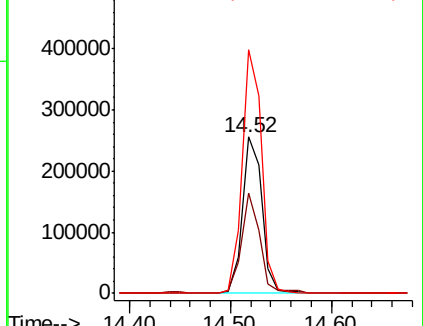
150 155.9 0.0 305.8



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



#74

N-ethyl acetate

Concen: 2.632 ug/l

RT: 13.22 min Scan# 1198

Delta R.T. -0.05 min

Lab File: VD062861.D

Acq: 25 Jun 2019 3:26

Tgt Ion: 43 Resp: 14044

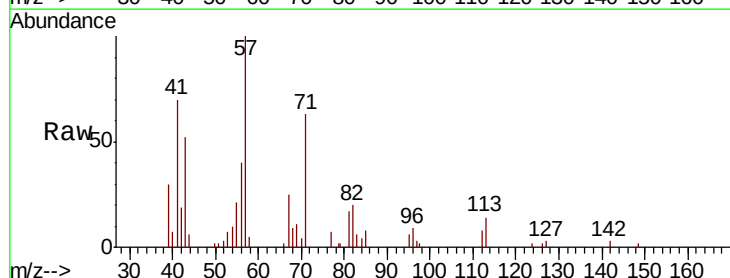
Ion Ratio Lower Upper

43 100

70 8.2 24.4 36.6#

55 40.7 15.2 22.8#

61 0.0 17.4 26.2#

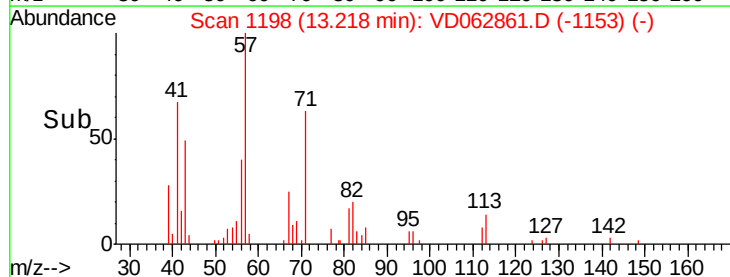
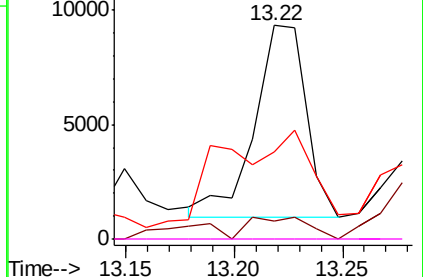


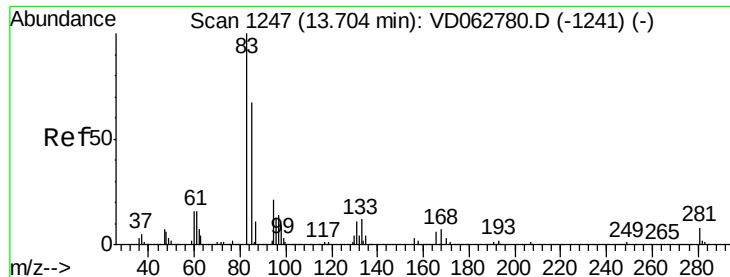
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 2.686 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. 0.02 min

Lab File: VD062861.D

Acq: 25 Jun 2019 3:26

Instrument :

MSVOA_D

ClientSampleId :

COMP-1

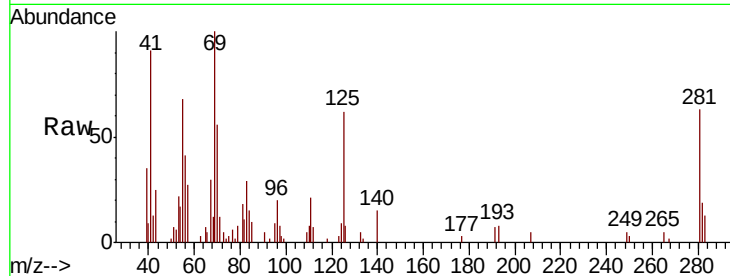
Tot Ion: 83 Resp: 9615

Ion Ratio Lower Upper

83 100

131 0.0 5.3 16.1#

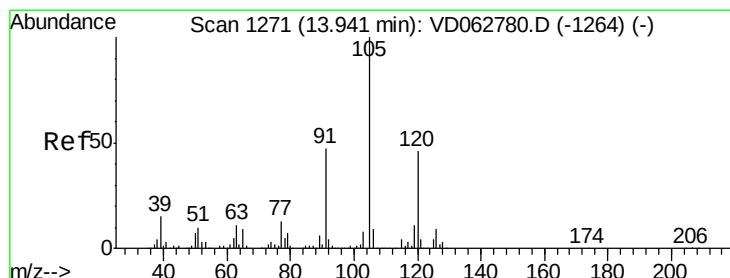
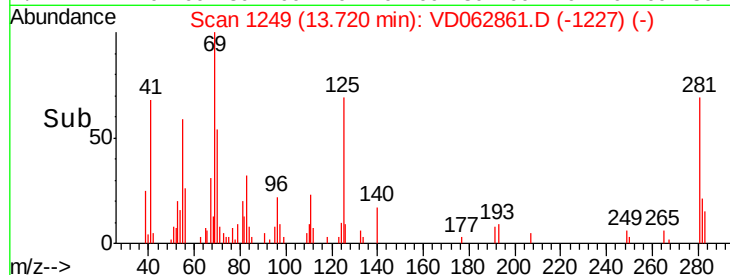
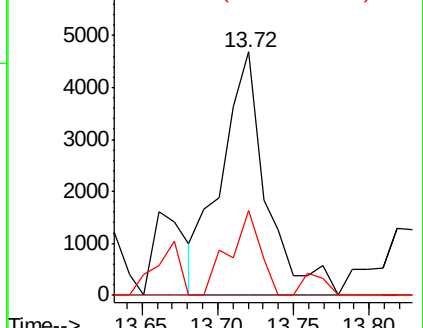
85 35.1 33.7 101.1



Abundance Ion 82.95 (82.65 to 83.65): V

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): V



#80

1,3,5-Trimethylbenzene

Concen: 2.753 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VD062861.D

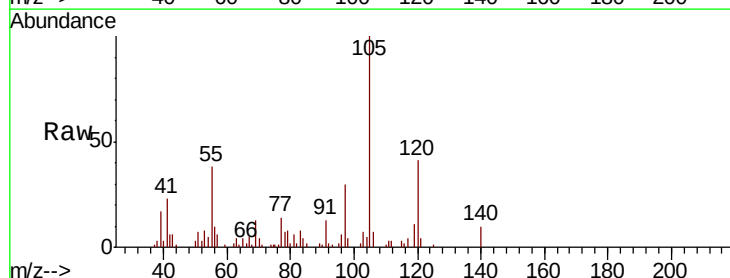
Acq: 25 Jun 2019 3:26

Tgt Ion:105 Resp: 50812

Ion Ratio Lower Upper

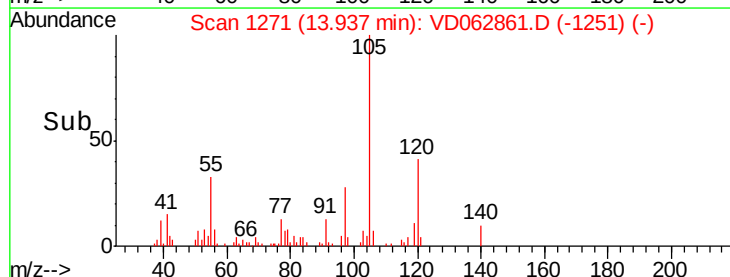
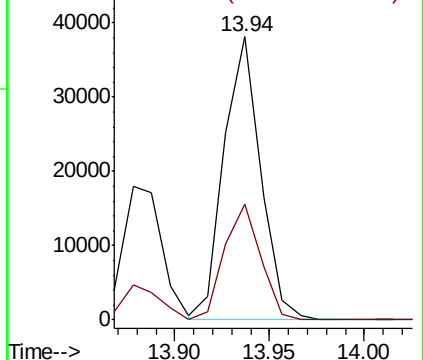
105 100

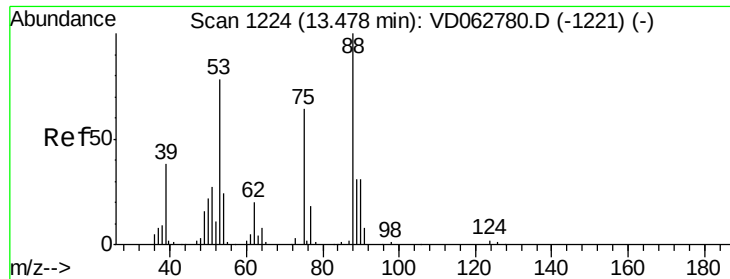
120 40.9 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 146.066 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD062861.D

Acq: 25 Jun 2019 3:26

Instrument :

MSVOA_D

ClientSampleId :

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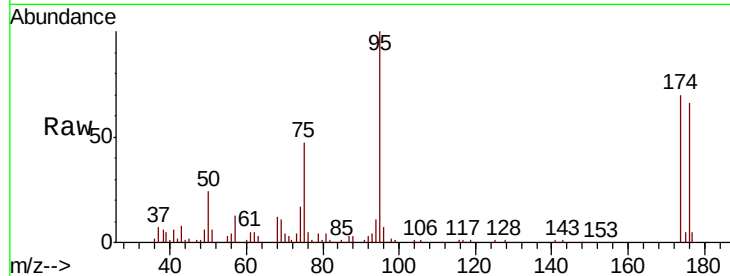
Tot Ion: 75 Resp: 151452

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

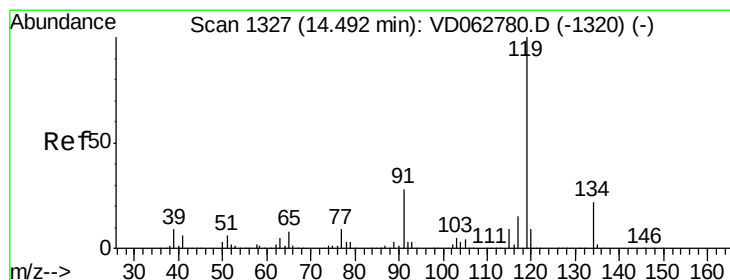
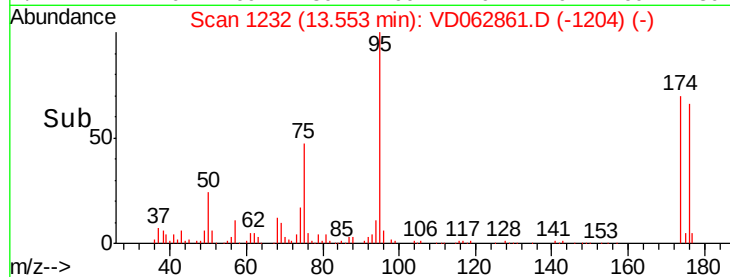
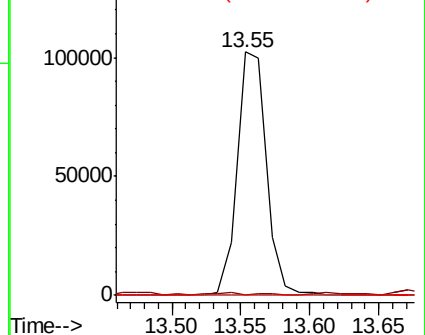
89 0.0 39.4 59.2#



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



#86

p-Isopropyltoluene

Concen: 1.148 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. -0.00 min

Lab File: VD062861.D

Acq: 25 Jun 2019 3:26

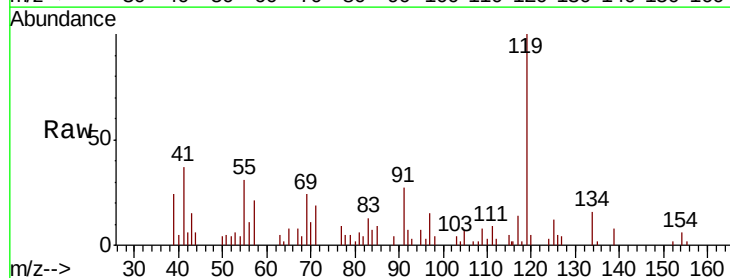
Tgt Ion: 119 Resp: 23475

Ion Ratio Lower Upper

119 100

134 15.7 11.1 33.1

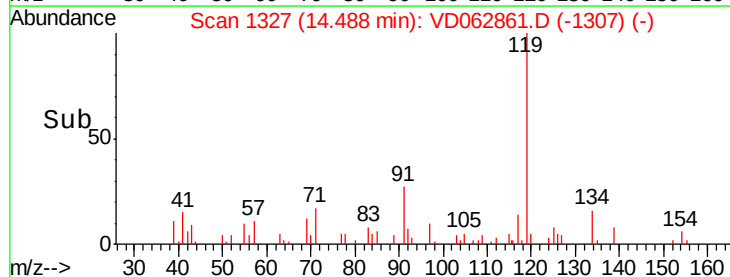
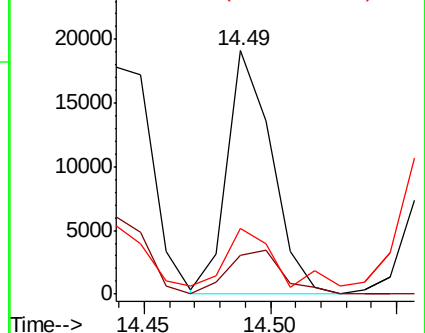
91 26.9 14.0 41.9

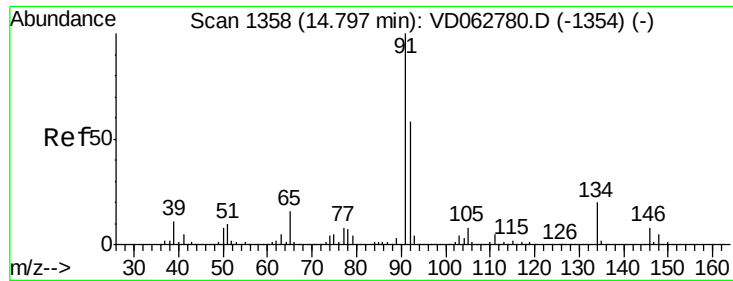


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): VDC





#89

n-Butylbenzene

Concen: 1.219 ug/l

RT: 14.78 min Scan# 1357

Delta R.T. -0.01 min

Lab File: VD062861.D

Acq: 25 Jun 2019 3:26

Instrument :

MSVOA_D

ClientSampleId :

COMP-1

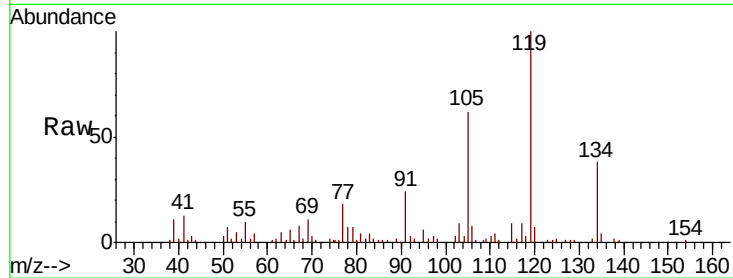
Tot Ion: 91 Resp: 23348

Ion Ratio Lower Upper

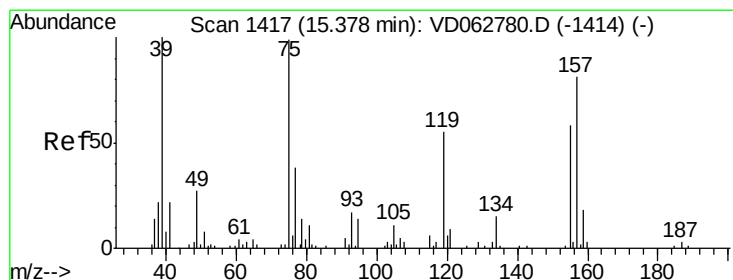
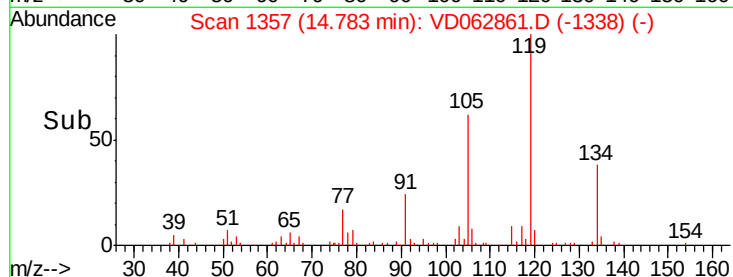
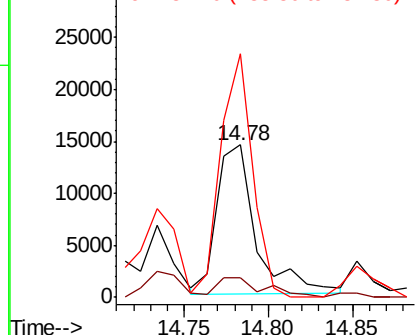
91 100

92 12.8 28.9 86.7#

134 160.0 10.1 30.3#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.192 ug/l

RT: 15.37 min Scan# 1417

Delta R.T. -0.00 min

Lab File: VD062861.D

Acq: 25 Jun 2019 3:26

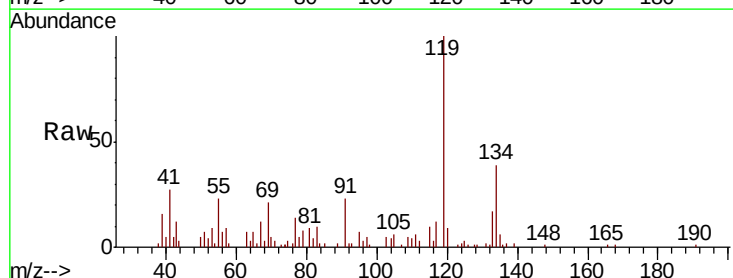
Tgt Ion: 75 Resp: 833

Ion Ratio Lower Upper

75 100

155 0.0 29.3 87.8#

157 0.0 41.3 123.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 154.90 (154.60 to 155.60): V
Ion 156.85 (156.55 to 157.55): V

