

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082318\
 Data File : VD059892.D
 Acq On : 23 Aug 2018 17:04
 Operator : JC/SY
 Sample : J4559-09
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-053

Quant Time: Aug 24 05:26:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082218S.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 03:03:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	722612	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.44	114	1026880	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.29	117	706135	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	247028	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.78	65	418141	68.65	ug/l	-0.02
Spiked Amount			Recovery	=	137.30%	
35) Dibromofluoromethane	6.32	113	477088	59.26	ug/l	-0.02
Spiked Amount			Recovery	=	118.52%	
50) Toluene-d8	9.45	98	1032038	46.19	ug/l	0.00
Spiked Amount			Recovery	=	92.38%	
62) 4-Bromofluorobenzene	12.44	95	330690	36.44	ug/l	0.00
Spiked Amount			Recovery	=	72.88%	

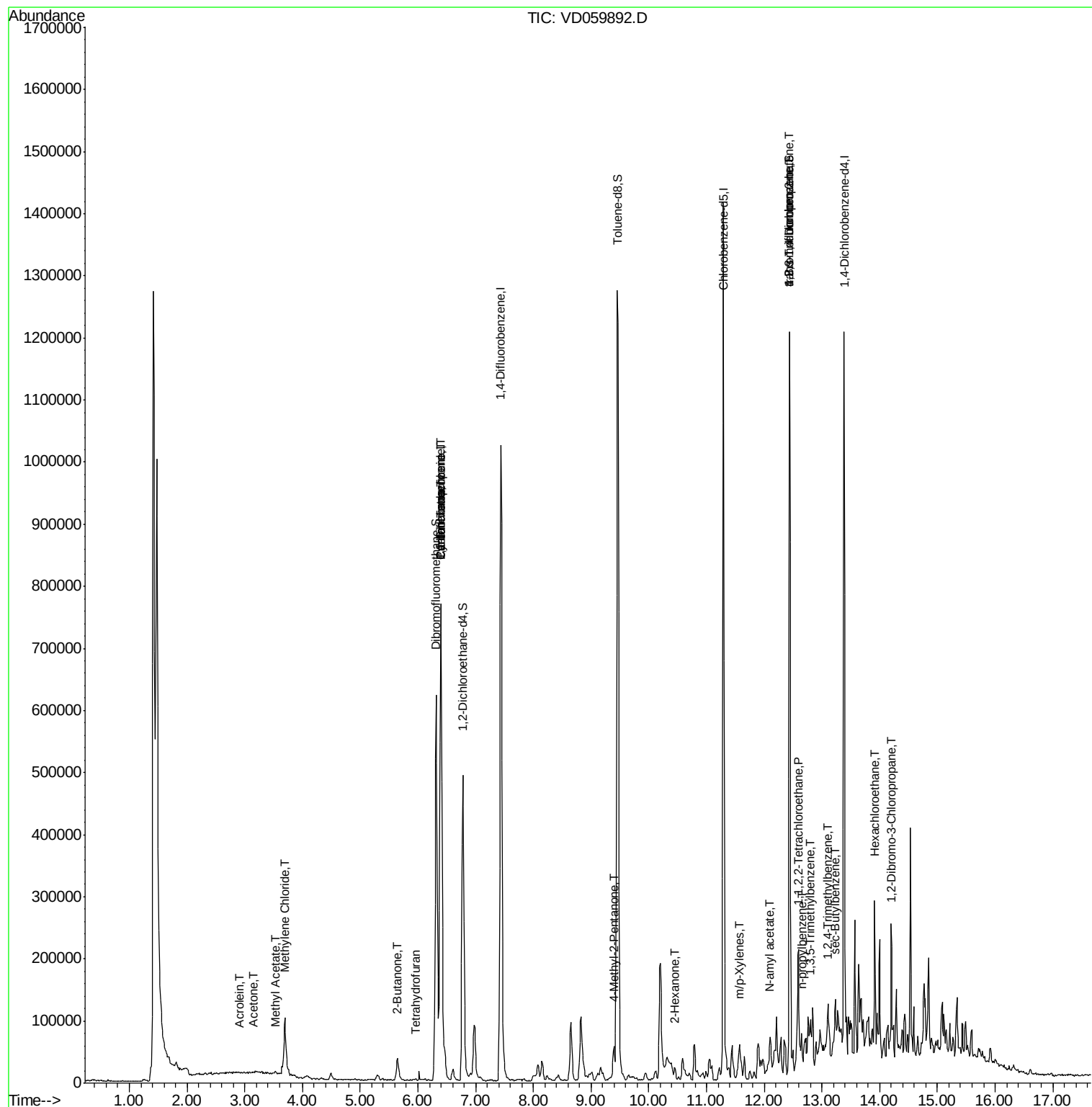
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.92	56	677	3.36	ug/l #	9
16) Acetone	3.16	43	4901	4.42	ug/l #	54
18) Methyl Acetate	3.54	43	4980	2.15	ug/l #	66
20) Methylene Chloride	3.70	84	50350	3.32	ug/l	97
25) 2-Butanone	5.64	43	7682	2.34	ug/l #	63
29) Tetrahydrofuran	5.96	42	2502	1.60	ug/l #	43
31) Cyclohexane	6.39	56	17187	1.48	ug/l #	1
36) 1,1-Dichloropropene	6.39	75	52057	5.59	ug/l #	47
38) Carbon Tetrachloride	6.39	117	58281	6.20	ug/l #	16
51) 4-Methyl-2-Pentanone	9.40	43	13675	1.95	ug/l #	74
59) 2-Hexanone	10.45	43	13334	2.57	ug/l #	30
68) m/p-Xylenes	11.58	106	13882	1.62	ug/l	95
74) N-amyl acetate	12.10	43	18447	2.67	ug/l #	60
75) 1,1,2,2-Tetrachloroethane	12.59	83	9605	2.63	ug/l #	67
76) 1,2,3-Trichloropropane	12.44	75	104940	27.33	ug/l #	45
78) n-propylbenzene	12.65	91	40742	2.04	ug/l	98
80) 1,3,5-Trimethylbenzene	12.81	105	21837	1.74	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.44	75	136260	114.09	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.11	105	20777	1.59	ug/l	100
85) sec-Butylbenzene	13.23	105	24263	1.44	ug/l	91
90) Hexachloroethane	13.91	117	7573	2.06	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.22	75	1750	3.12	ug/l #	1

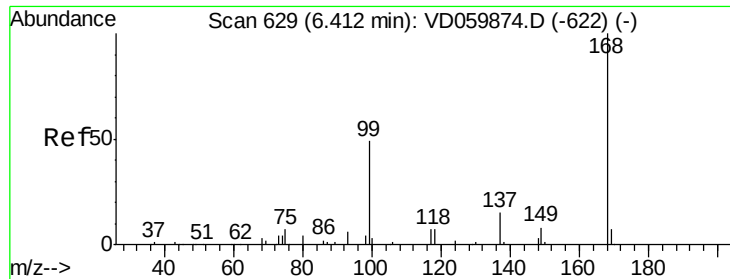
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.40 min Scan# 628

Delta R.T. -0.01 min

Lab File: VD059892.D

Acq: 23 Aug 2018 17:04

Instrument :

MSVOA_D

ClientSampleId :

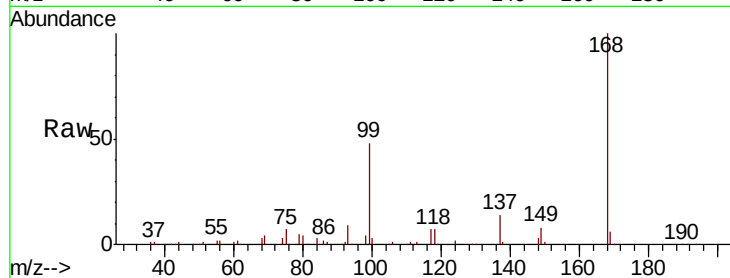
RA-081718-WSW-20-053

Tot Ion:168 Resp: 722612

Ion Ratio Lower Upper

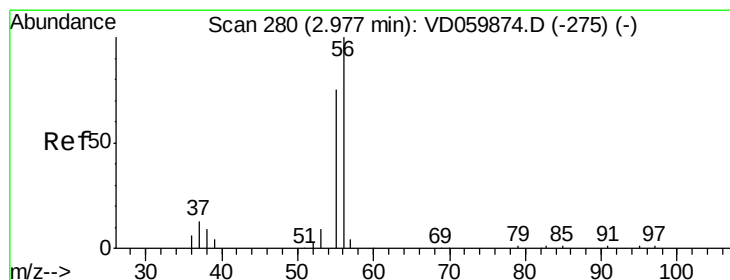
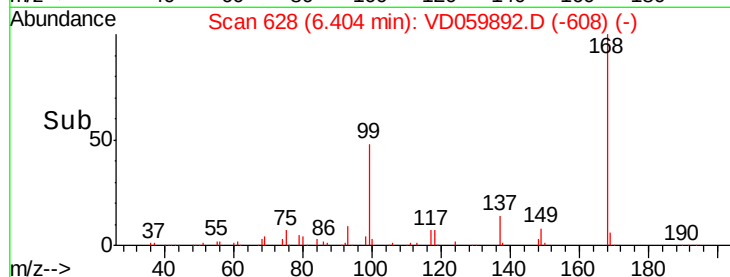
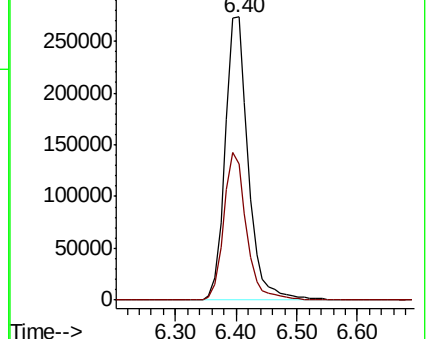
168 100

99 48.0 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#13

Acrolein

Concen: 3.36 ug/l

RT: 2.92 min Scan# 274

Delta R.T. -0.06 min

Lab File: VD059892.D

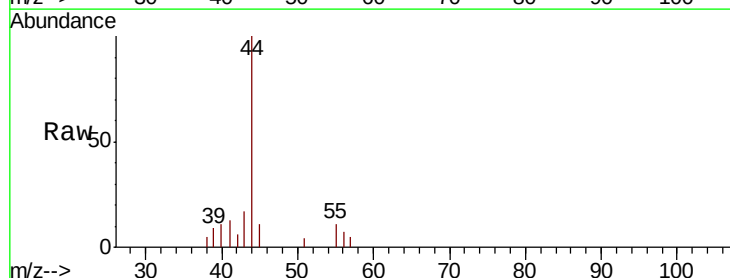
Acq: 23 Aug 2018 17:04

Tgt Ion: 56 Resp: 677

Ion Ratio Lower Upper

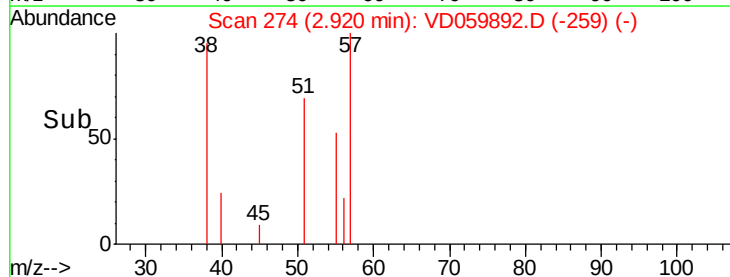
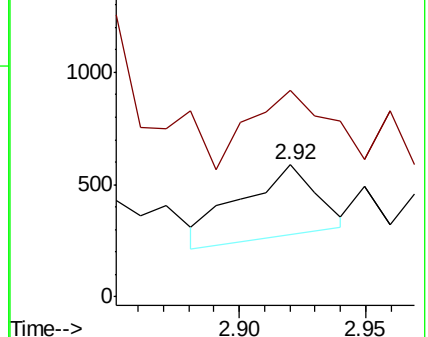
56 100

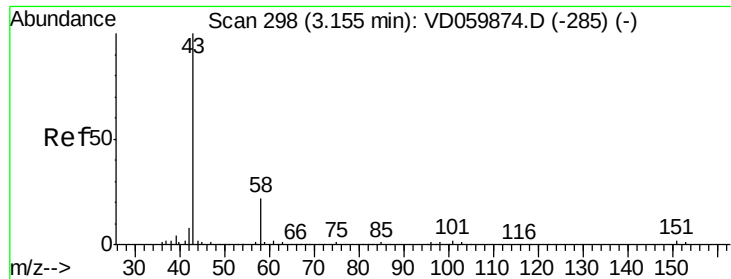
55 156.6 61.9 92.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 4.42 ug/l

RT: 3.16 min Scan# 298

Delta R.T. 0.00 min

Lab File: VD059892.D

Acq: 23 Aug 2018 17:04

Instrument :

MSVOA_D

ClientSampleId :

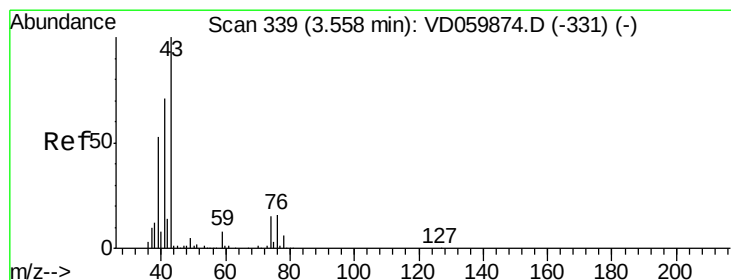
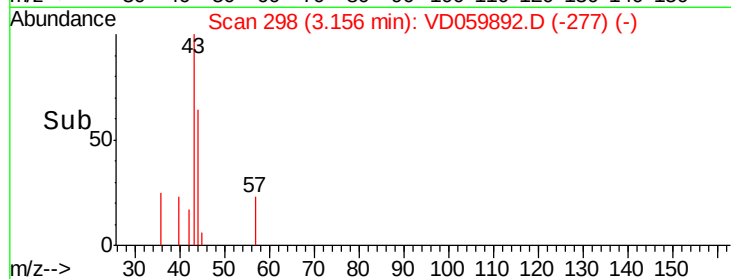
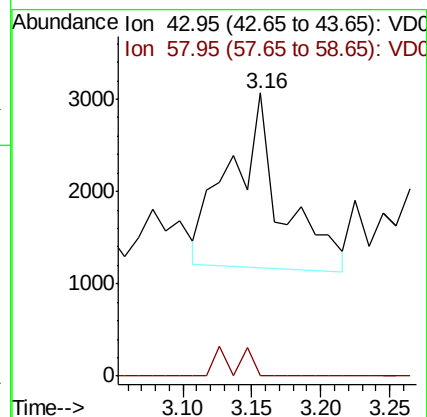
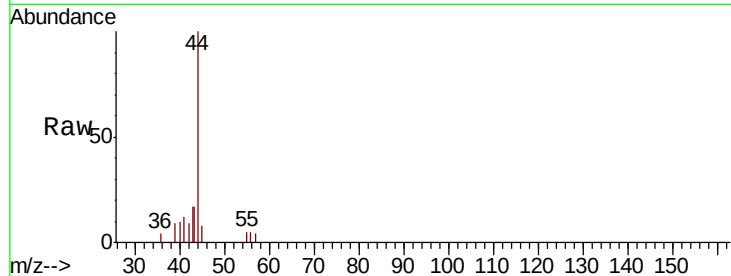
RA-081718-WSW-20-053

Tot Ion: 43 Resp: 4901

Ion Ratio Lower Upper

43 100

58 0.0 17.6 26.4#



#18

Methyl Acetate

Concen: 2.15 ug/l

RT: 3.54 min Scan# 337

Delta R.T. -0.02 min

Lab File: VD059892.D

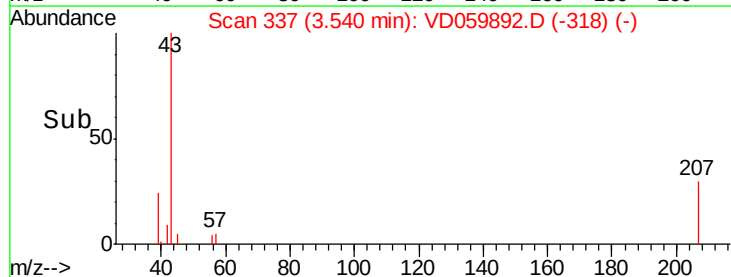
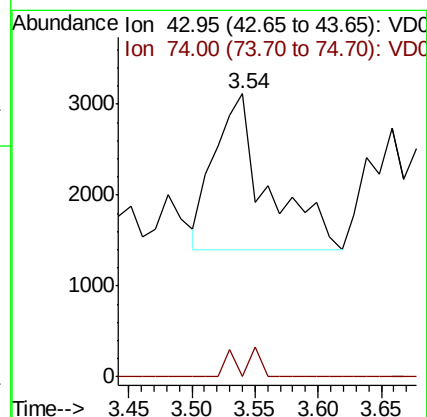
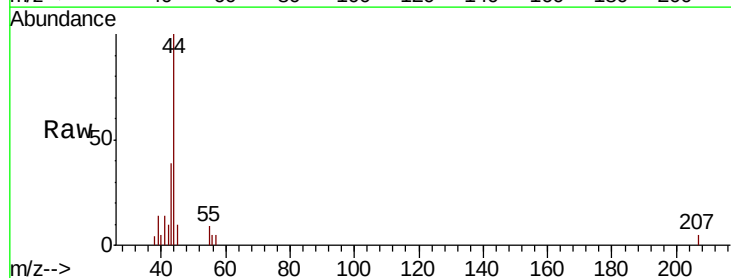
Acq: 23 Aug 2018 17:04

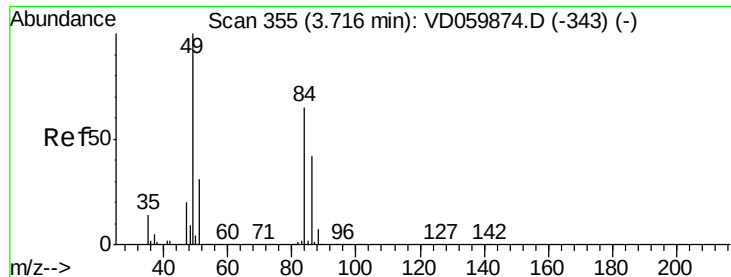
Tgt Ion: 43 Resp: 4980

Ion Ratio Lower Upper

43 100

74 0.0 11.2 16.8#





#20

Methylene Chloride

Concen: 3.32 ug/l

RT: 3.70 min Scan# 353

Delta R.T. -0.02 min

Lab File: VD059892.D

Acq: 23 Aug 2018 17:04

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 84 Resp: 50350

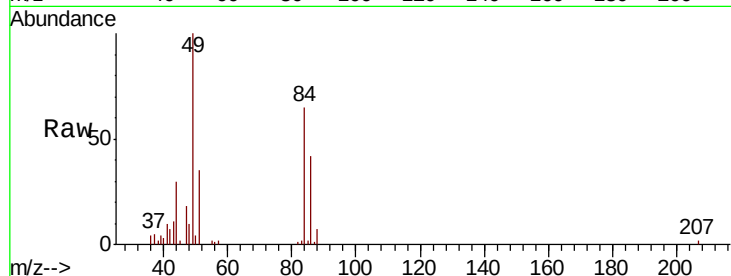
Ion Ratio Lower Upper

84 100

49 154.6 122.6 183.8

51 54.1 38.4 57.6

86 65.6 51.5 77.3

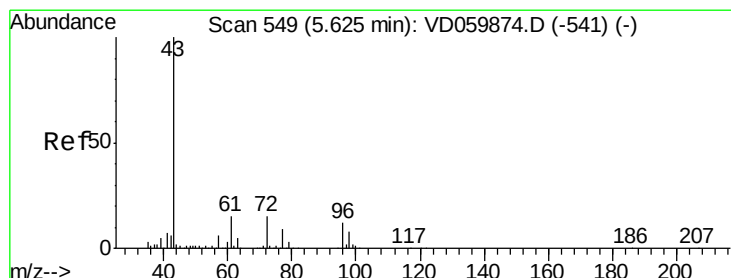
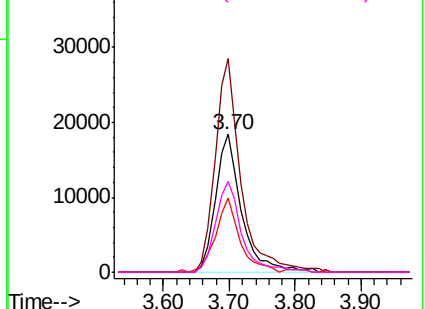
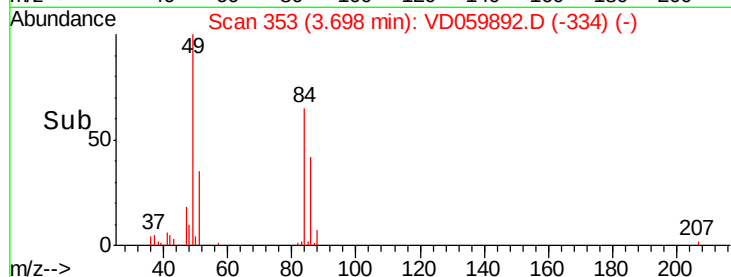


Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#25

2-Butanone

Concen: 2.34 ug/l

RT: 5.64 min Scan# 550

Delta R.T. 0.01 min

Lab File: VD059892.D

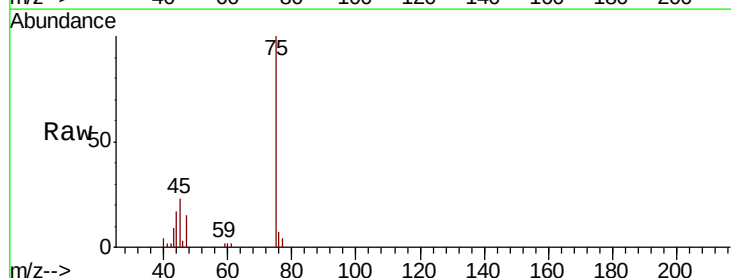
Acq: 23 Aug 2018 17:04

Tgt Ion: 43 Resp: 7682

Ion Ratio Lower Upper

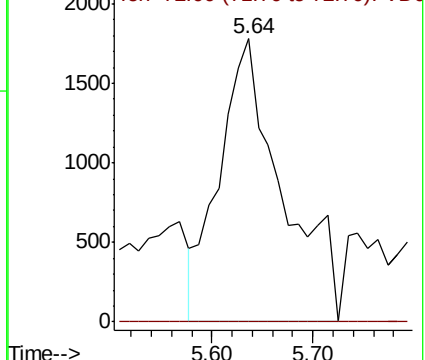
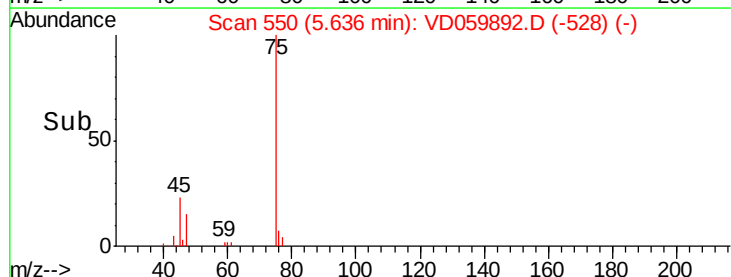
43 100

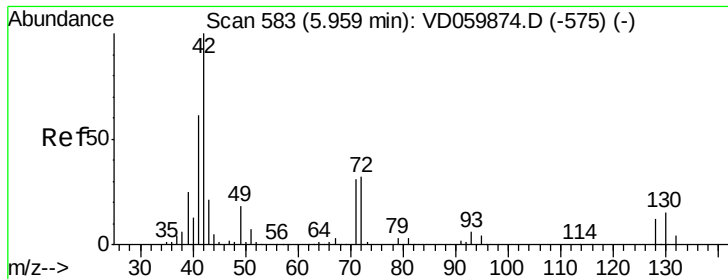
72 0.0 12.3 18.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

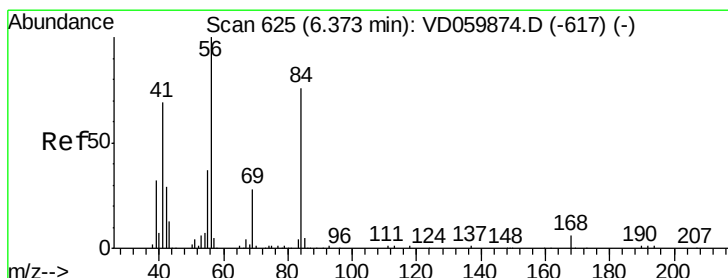
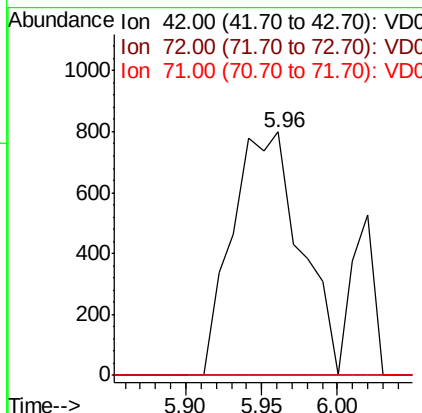
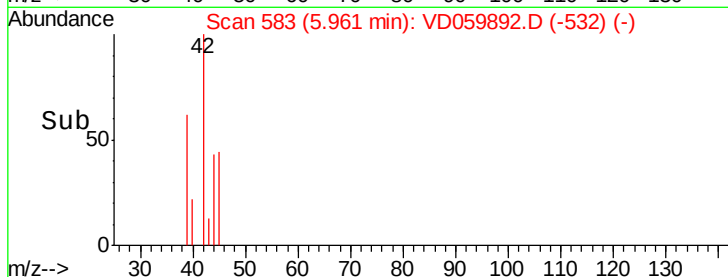
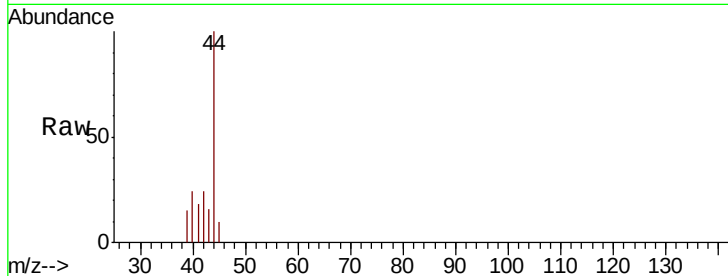




#29
Tetrahydrofuran
Concen: 1.60 ug/l
RT: 5.96 min Scan# 583
Delta R.T. 0.00 min
Lab File: VD059892.D
Acq: 23 Aug 2018 17:04

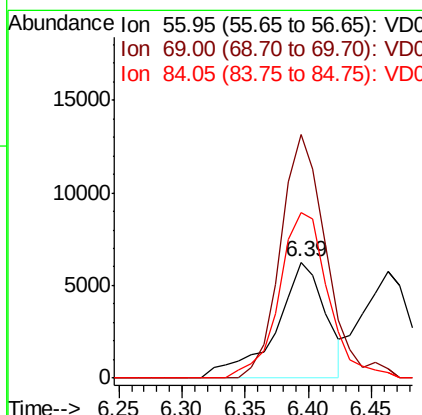
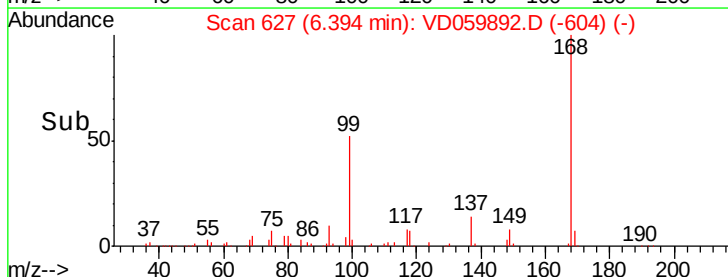
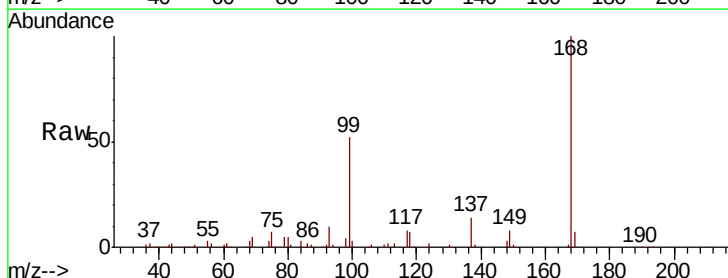
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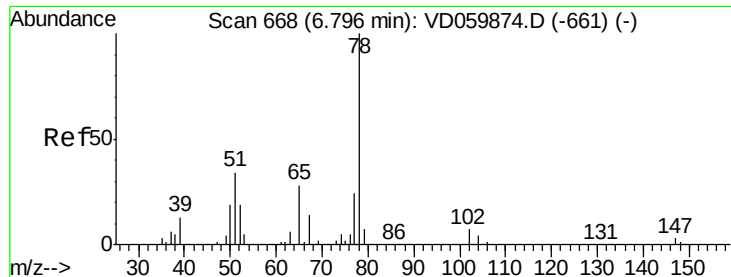
Tot Ion: 42 Resp: 2502
Ion Ratio Lower Upper
42 100
72 0.0 25.7 38.5#
71 0.0 25.3 37.9#



#31
Cyclohexane
Concen: 1.48 ug/l
RT: 6.39 min Scan# 627
Delta R.T. 0.02 min
Lab File: VD059892.D
Acq: 23 Aug 2018 17:04

Tgt Ion: 56 Resp: 17187
Ion Ratio Lower Upper
56 100
69 210.1 22.4 33.6#
84 143.2 62.1 93.1#

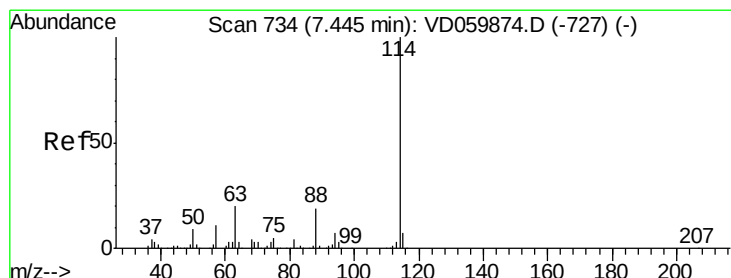
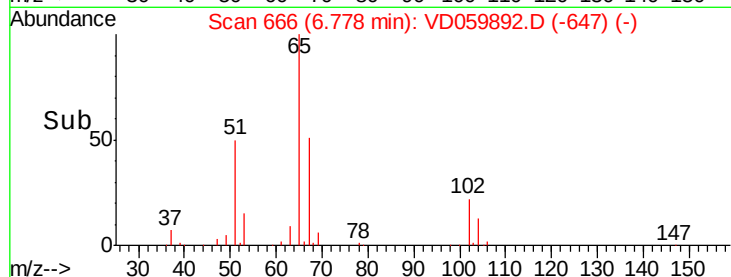
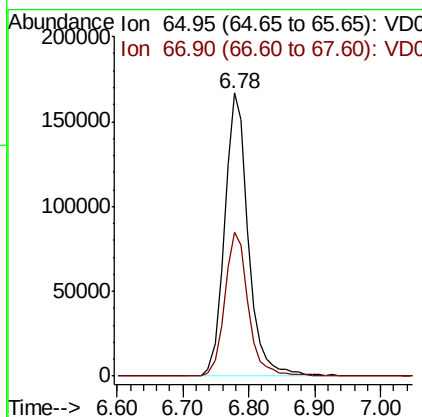
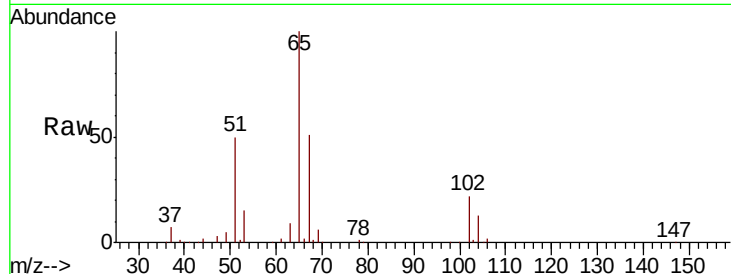




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.78 min Scan# 666
 Delta R.T. -0.02 min
 Lab File: VD059892.D
 Acq: 23 Aug 2018 17:04

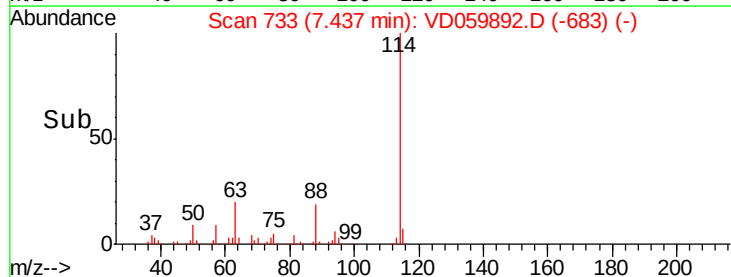
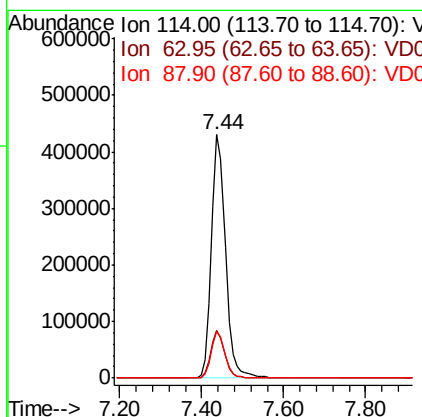
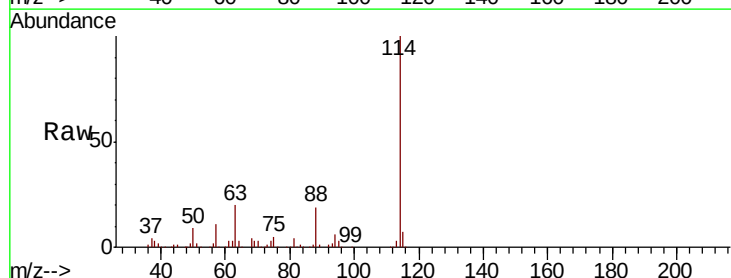
Instrument :
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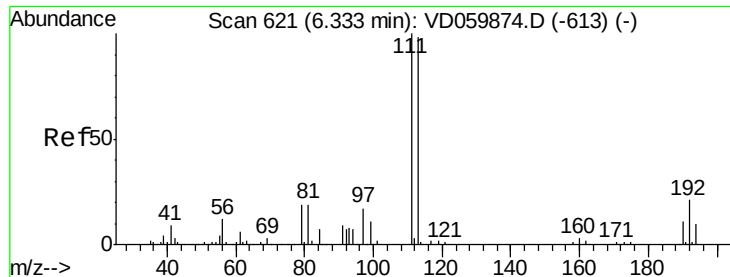
Tot Ion: 65 Resp: 418141
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.44 min Scan# 733
 Delta R.T. -0.01 min
 Lab File: VD059892.D
 Acq: 23 Aug 2018 17:04

Tgt Ion: 114 Resp: 1026880
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.4
 88 19.1 0.0 37.6

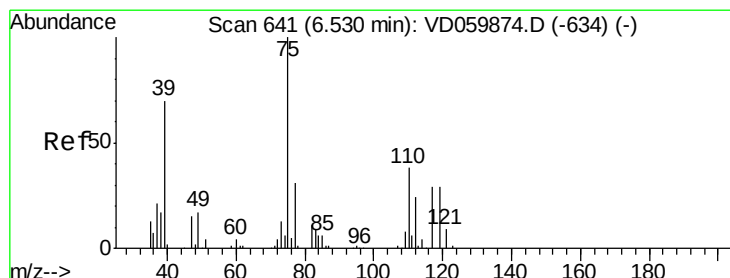
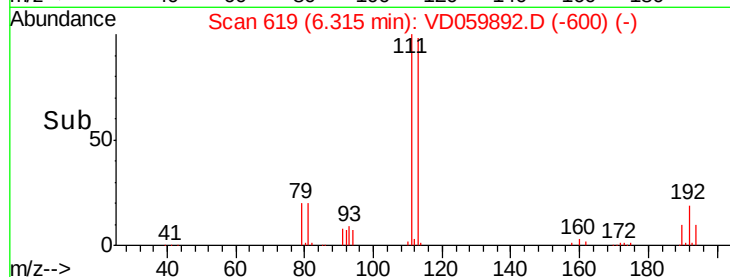
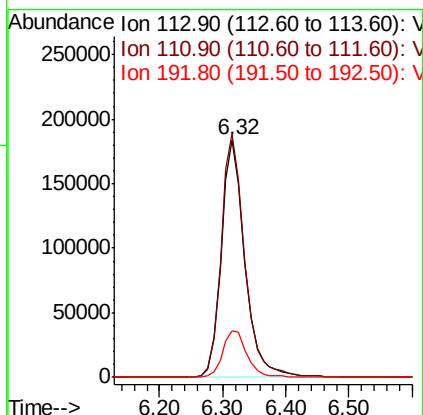
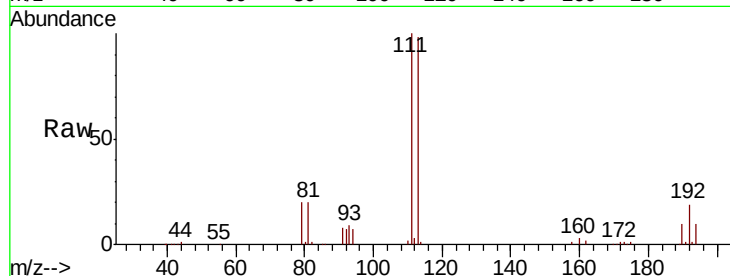




#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 6.32 min Scan# 619
 Delta R.T. -0.02 min
 Lab File: VD059892.D
 Acq: 23 Aug 2018 17:04

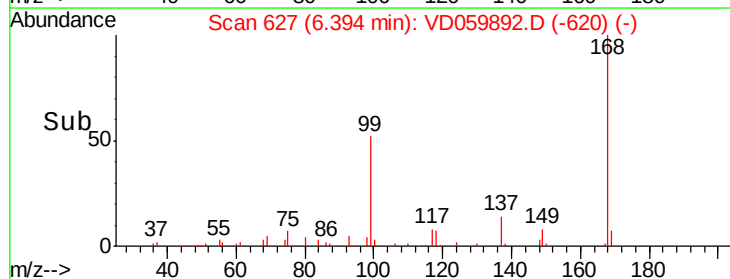
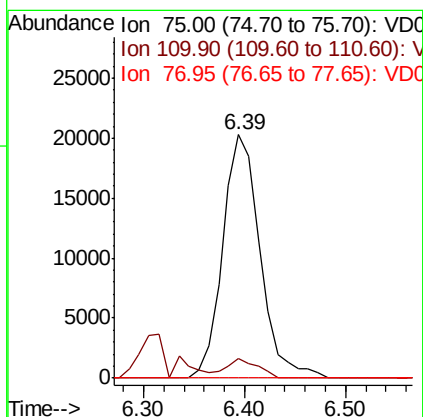
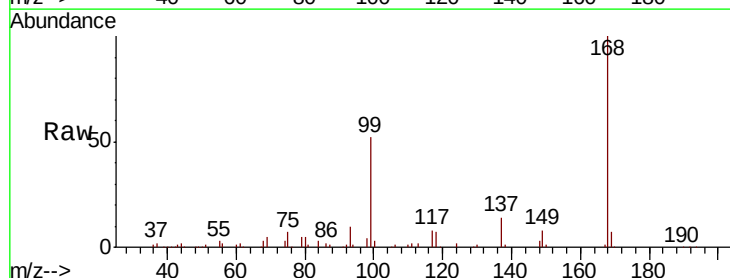
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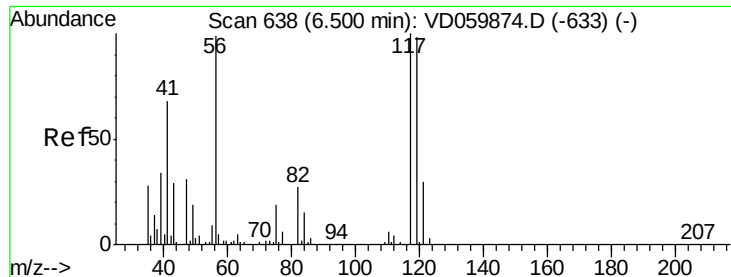
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.4	122.2
192	19.5	17.0	25.6



#36
 1,1-Dichloropropene
 Concen: 5.59 ug/l
 RT: 6.39 min Scan# 627
 Delta R.T. -0.14 min
 Lab File: VD059892.D
 Acq: 23 Aug 2018 17:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	18.6	56.0#
77	0.0	25.1	37.7#

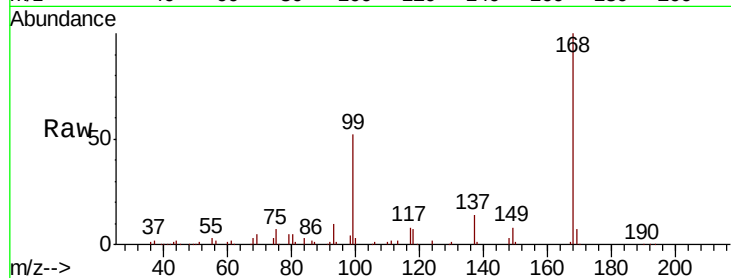




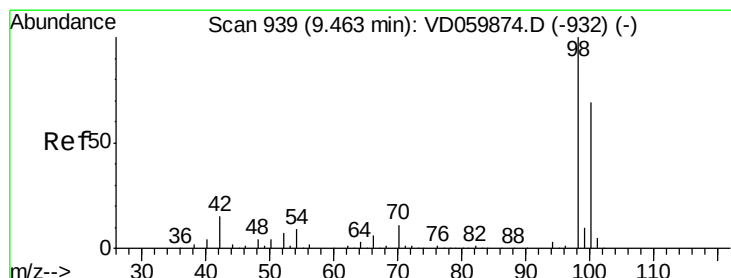
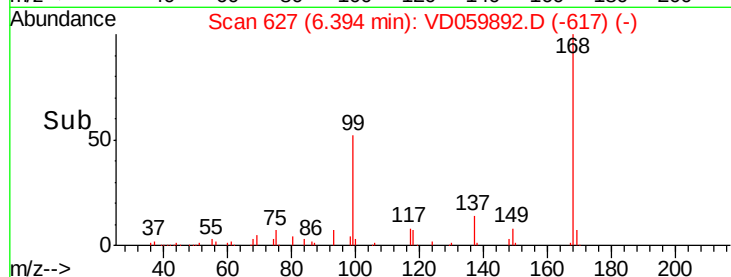
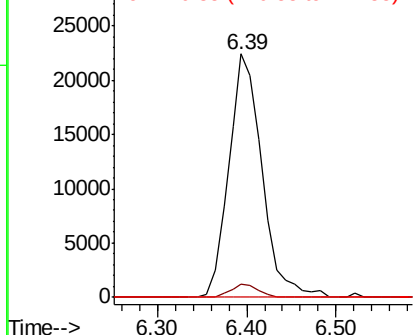
#38
Carbon Tetrachloride
Concen: 6.20 ug/l
RT: 6.39 min Scan# 627
Delta R.T. -0.11 min
Lab File: VD059892.D
Acq: 23 Aug 2018 17:04

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053

Tot Ion:117 Resp: 58281
Ion Ratio Lower Upper
117 100
119 5.6 77.2 115.8#
121 0.0 24.0 36.0#

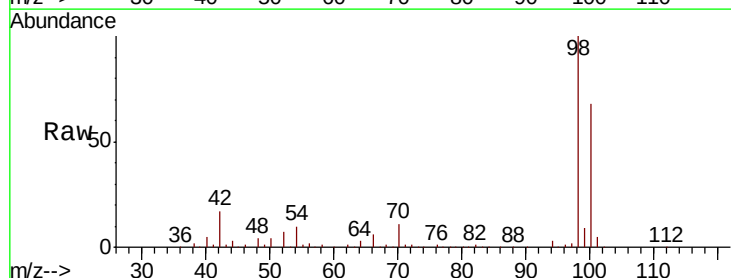


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

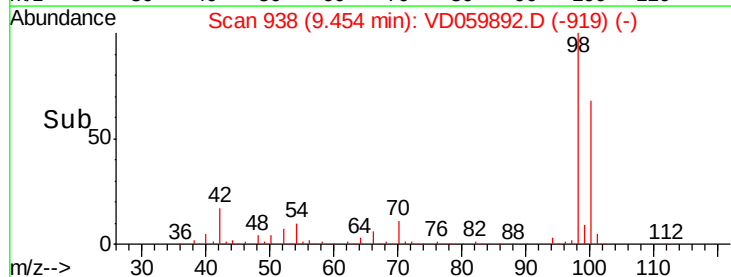
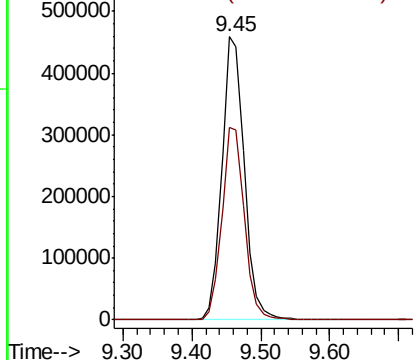


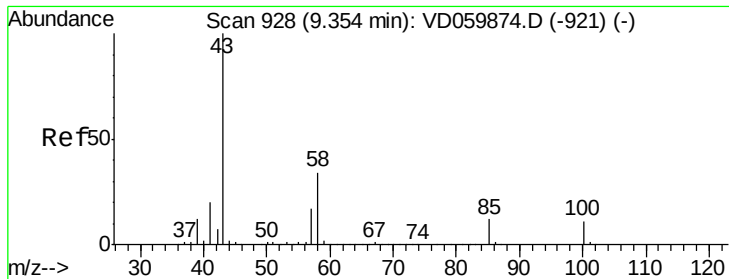
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.45 min Scan# 938
Delta R.T. -0.01 min
Lab File: VD059892.D
Acq: 23 Aug 2018 17:04

Tgt Ion: 98 Resp: 1032038
Ion Ratio Lower Upper
98 100
100 68.0 55.8 83.6



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: 1.95 ug/l

RT: 9.40 min Scan# 932

Delta R.T. 0.04 min

Lab File: VD059892.D

Acq: 23 Aug 2018 17:04

Instrument :

MSVOA_D

ClientSampleId :

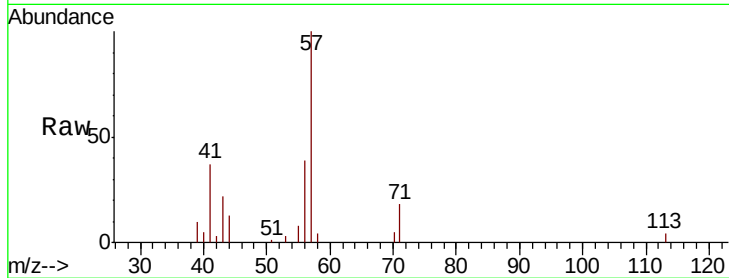
RA-081718-WSW-20-053

Tot Ion: 43 Resp: 13675

Ion Ratio Lower Upper

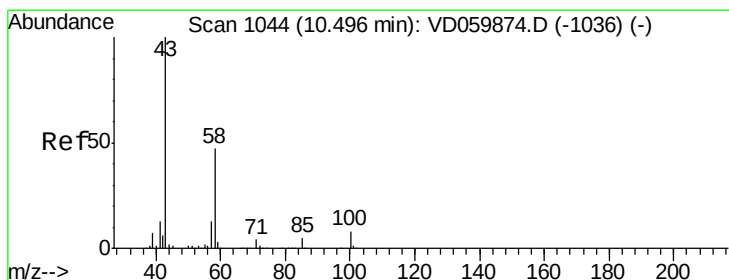
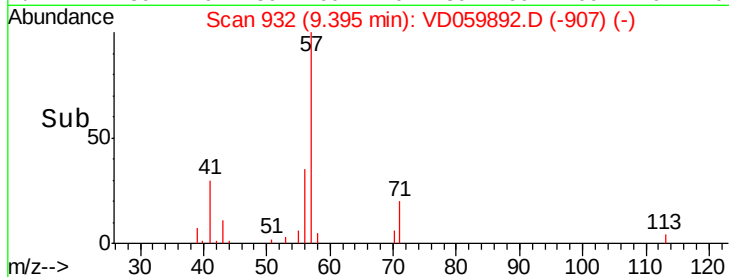
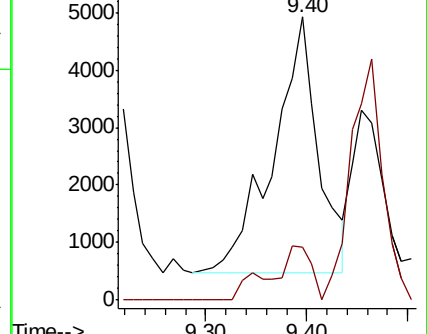
43 100

58 18.6 27.0 40.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#59

2-Hexanone

Concen: 2.57 ug/l

RT: 10.45 min Scan# 1039

Delta R.T. -0.05 min

Lab File: VD059892.D

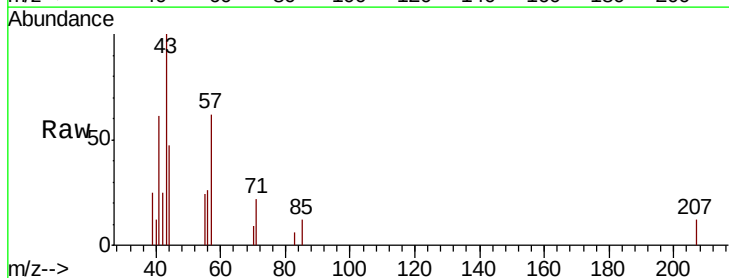
Acq: 23 Aug 2018 17:04

Tgt Ion: 43 Resp: 13334

Ion Ratio Lower Upper

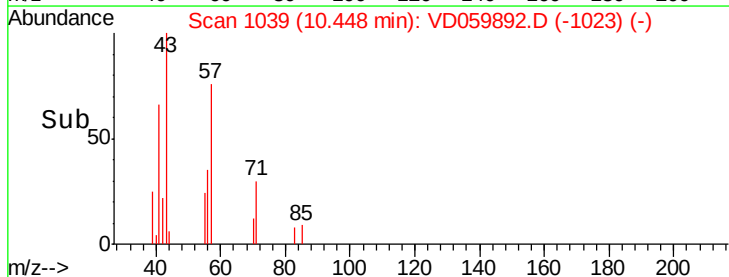
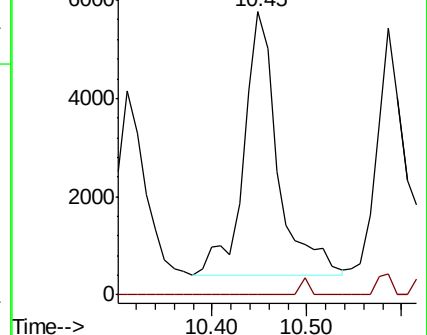
43 100

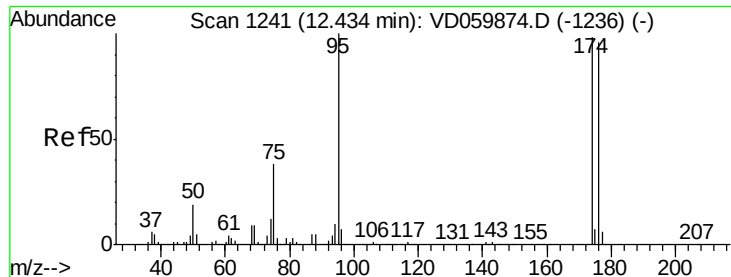
58 0.0 23.3 69.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.44 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VD059892.D

Acq: 23 Aug 2018 17:04

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-053

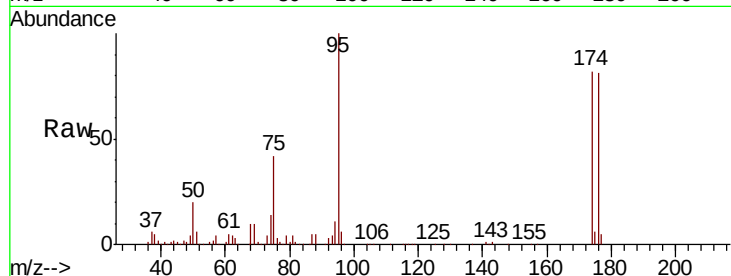
Tot Ion: 95 Resp: 330690

Ion Ratio Lower Upper

95 100

174 81.7 0.0 195.6

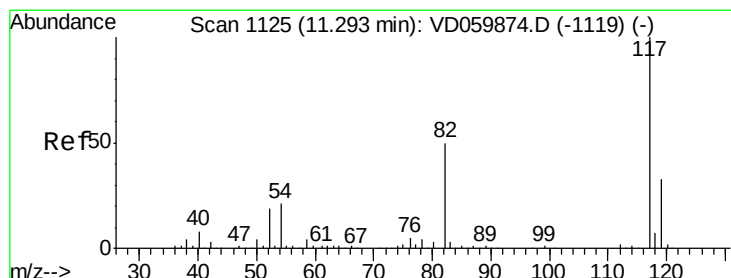
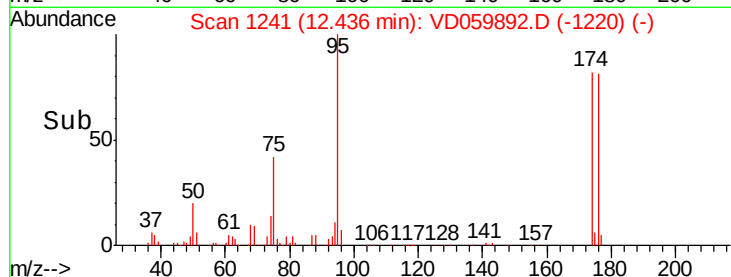
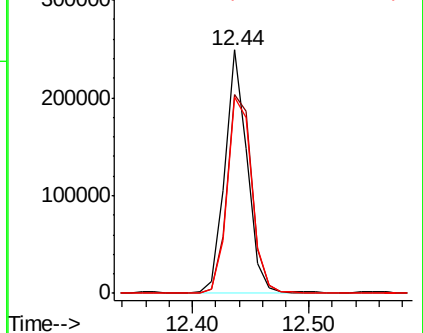
176 80.6 0.0 191.2



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.29 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VD059892.D

Acq: 23 Aug 2018 17:04

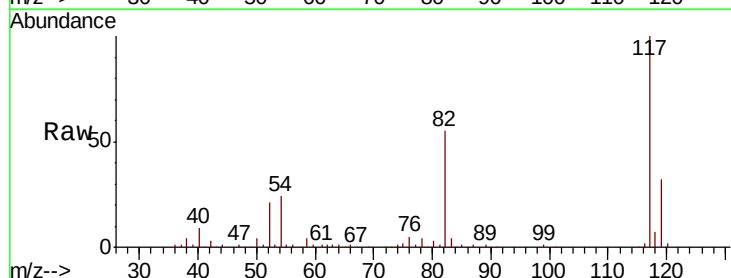
Tgt Ion: 117 Resp: 706135

Ion Ratio Lower Upper

117 100

82 55.4 40.1 60.1

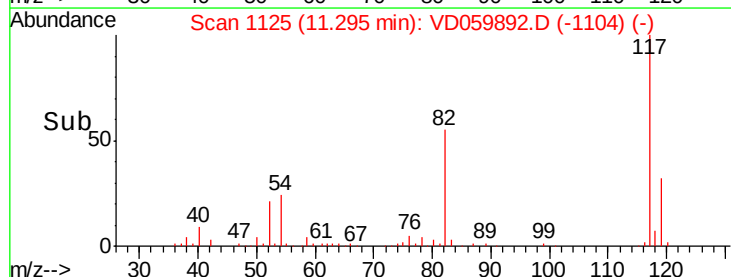
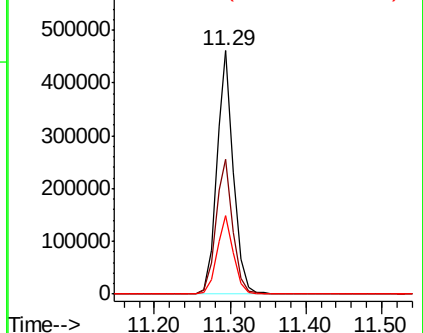
119 32.4 26.7 40.1

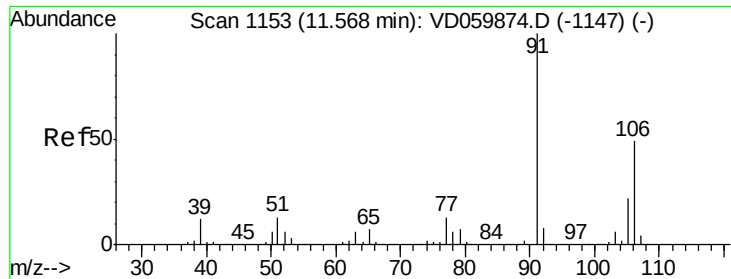


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#68

m/p-Xvlenes

Concen: 1.62 ug/l

RT: 11.58 min Scan# 1154

Delta R.T. 0.01 min

Lab File: VD059892.D

Acq: 23 Aug 2018 17:04

Instrument :

MSVOA_D

ClientSampleId :

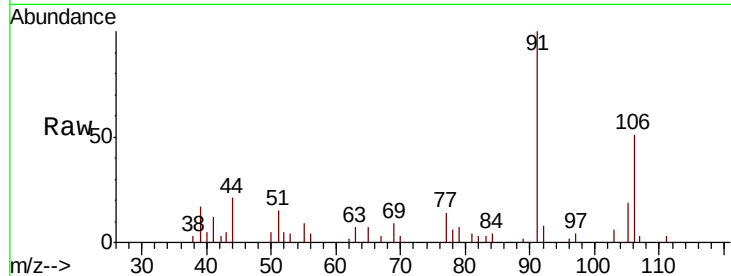
RA-081718-WSW-20-053

Tot Ion:106 Resp: 13882

Ion Ratio Lower Upper

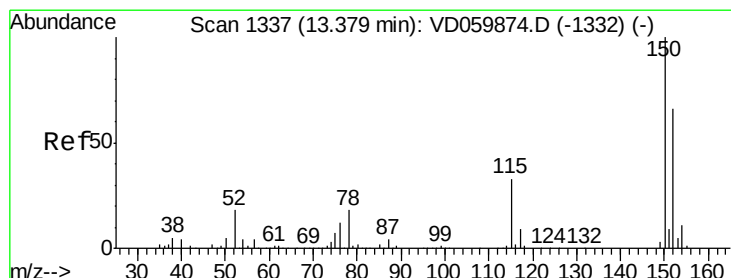
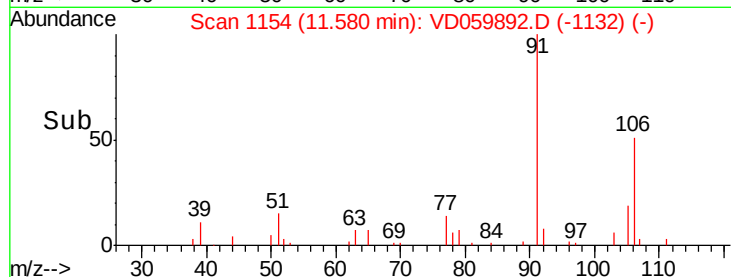
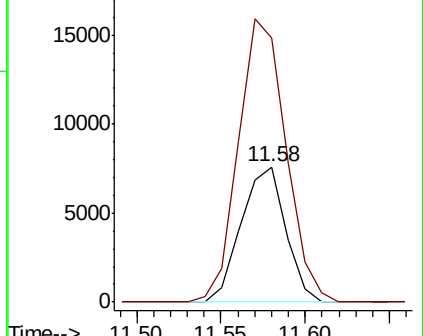
106 100

91 195.5 162.0 243.0



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.38 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VD059892.D

Acq: 23 Aug 2018 17:04

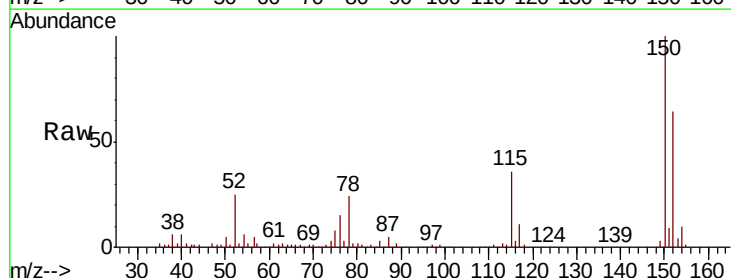
Tgt Ion:152 Resp: 247028

Ion Ratio Lower Upper

152 100

115 56.6 25.7 77.0

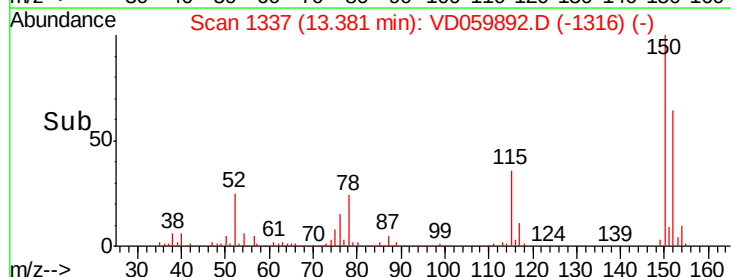
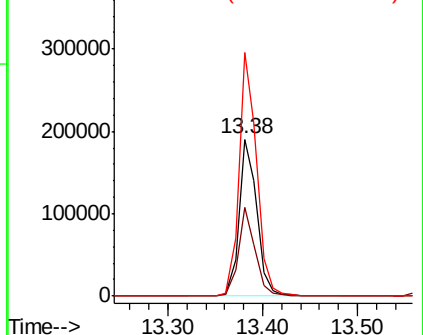
150 155.3 0.0 310.2

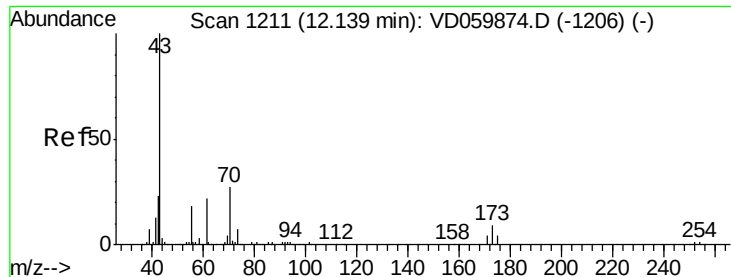


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.67 ug/l

RT: 12.10 min Scan# 1207

Delta R.T. -0.04 min

Lab File: VD059892.D

Acq: 23 Aug 2018 17:04

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-053

Tot Ion: 43 Resp: 18447

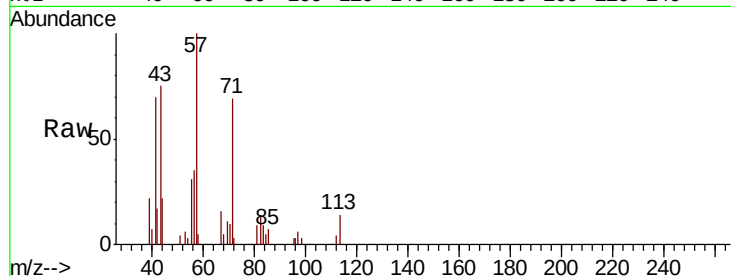
Ion Ratio Lower Upper

43 100

70 13.1 21.4 32.2#

55 40.8 14.1 21.1#

61 0.0 17.8 26.8#

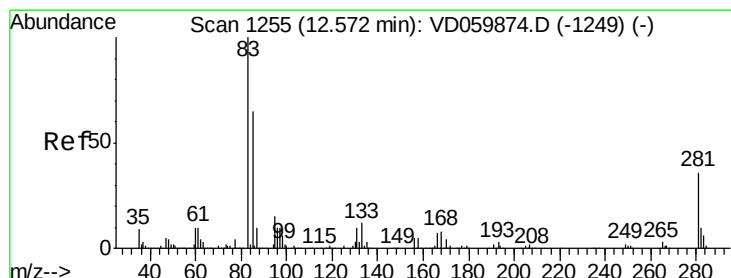
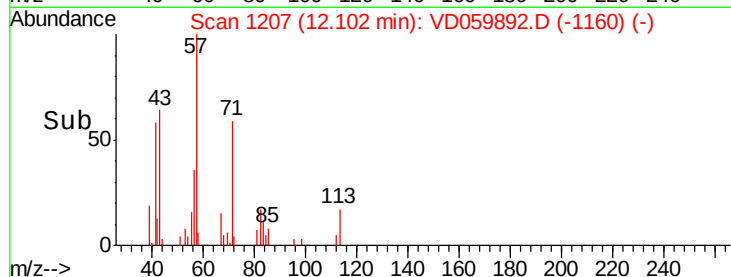
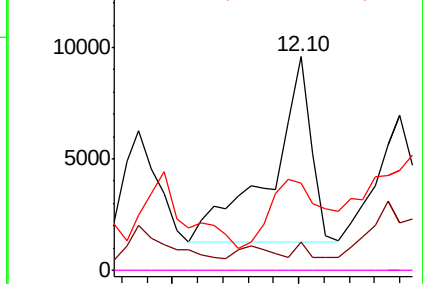


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#75

1,1,2,2-Tetrachloroethane

Concen: 2.63 ug/l

RT: 12.59 min Scan# 1257

Delta R.T. 0.02 min

Lab File: VD059892.D

Acq: 23 Aug 2018 17:04

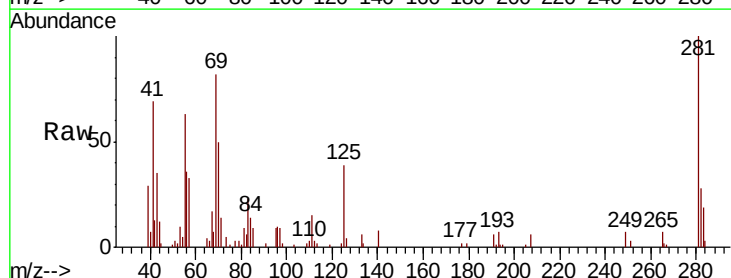
Tgt Ion: 83 Resp: 9605

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

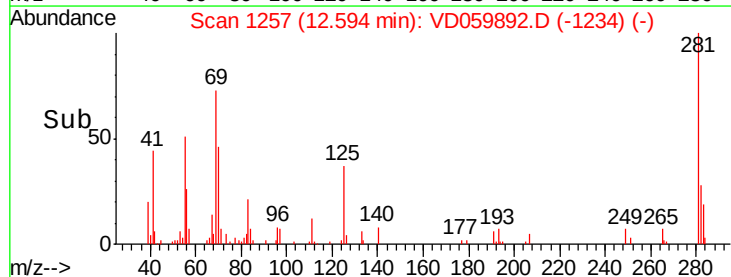
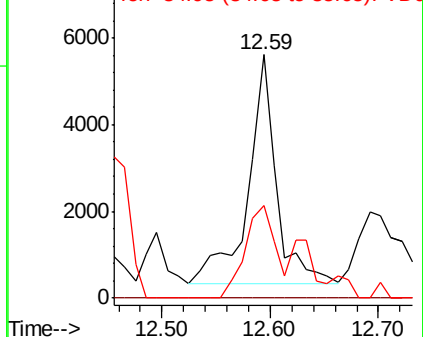
85 38.0 32.6 97.8

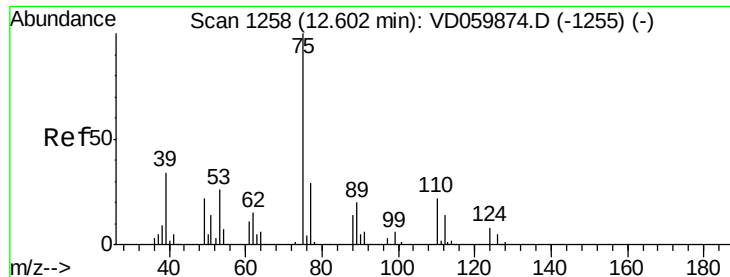


Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): VDC





#76

1,2,3-Trichloropropane

Concen: 27.33 ug/l

RT: 12.44 min Scan# 1241

Delta R.T. -0.17 min

Lab File: VD059892.D

Acq: 23 Aug 2018 17:04

Instrument :

MSVOA_D

ClientSampleId :

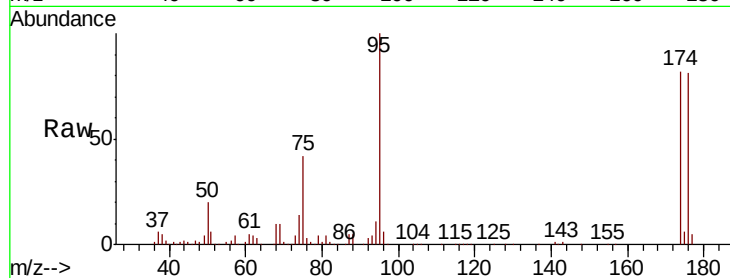
RA-081718-WSW-20-053

Tot Ion: 75 Resp: 104940

Ion Ratio Lower Upper

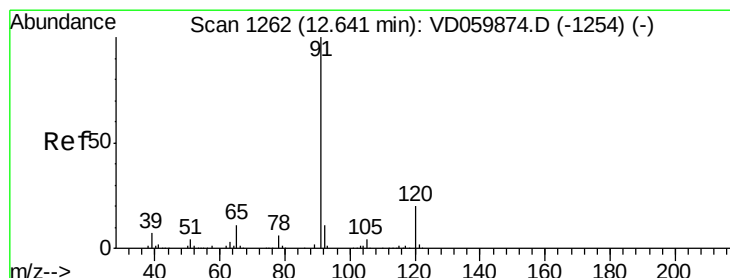
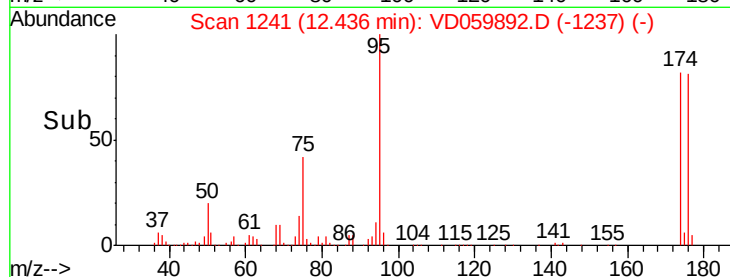
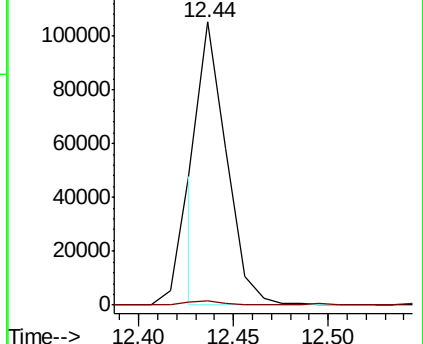
75 100

77 1.7 16.4 49.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#78

n-propylbenzene

Concen: 2.04 ug/l

RT: 12.65 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VD059892.D

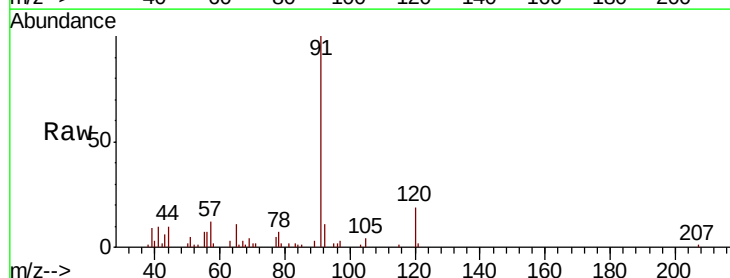
Acq: 23 Aug 2018 17:04

Tgt Ion: 91 Resp: 40742

Ion Ratio Lower Upper

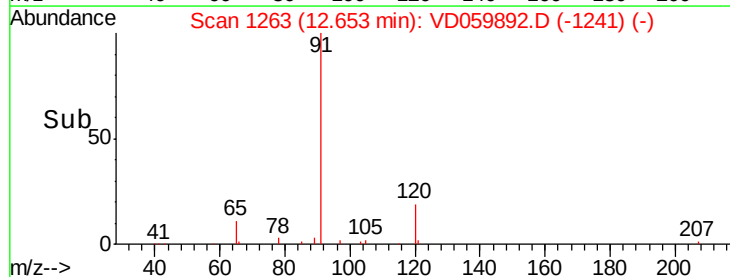
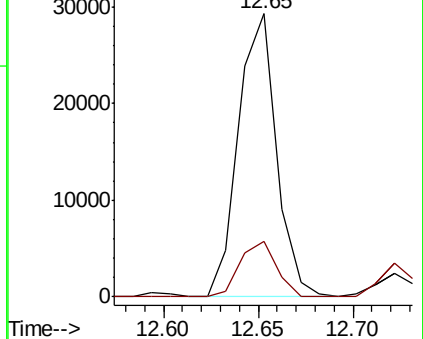
91 100

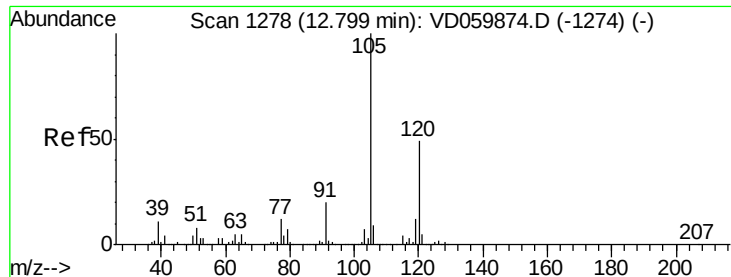
120 19.4 10.1 30.3



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): VDC

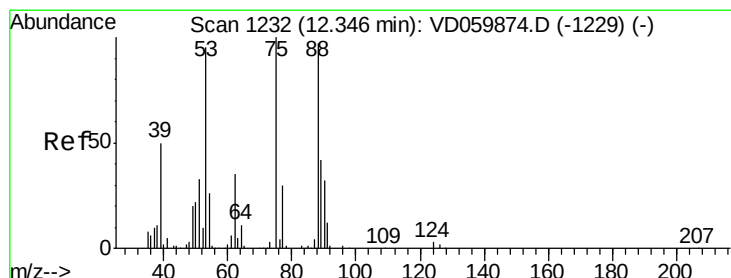
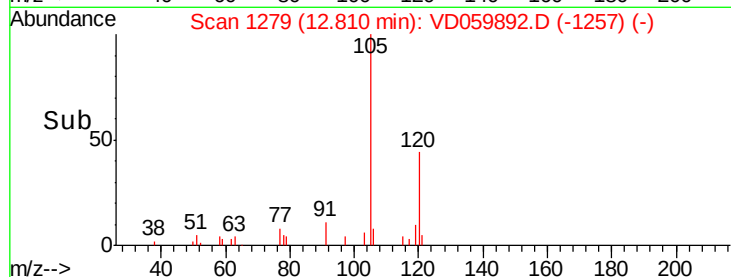
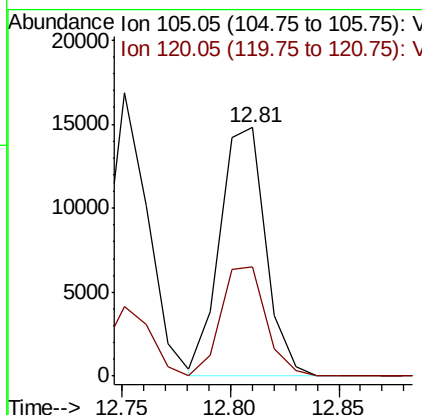
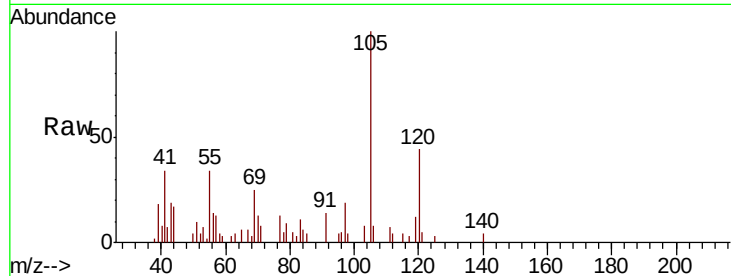




#80
 1,3,5-Trimethylbenzene
 Concen: 1.74 ug/l
 RT: 12.81 min Scan# 1279
 Delta R.T. 0.01 min
 Lab File: VD059892.D
 Acq: 23 Aug 2018 17:04

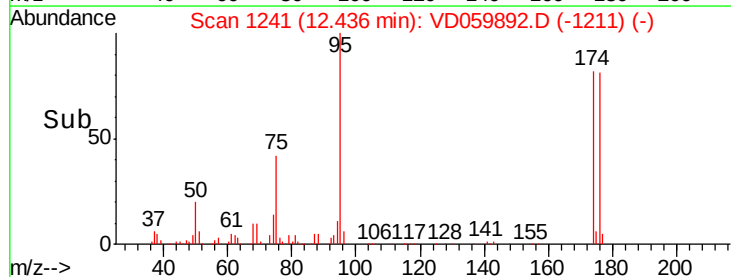
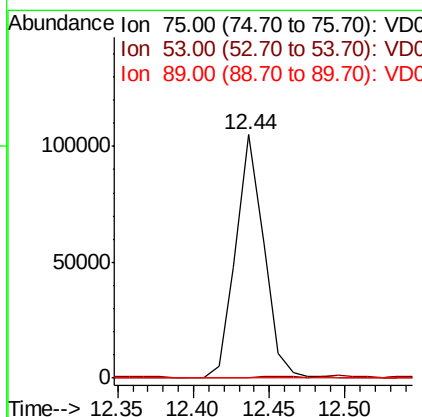
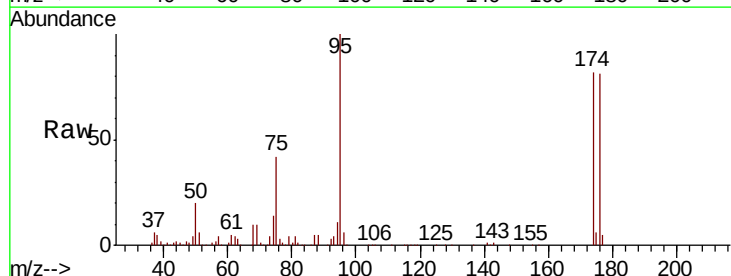
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-053

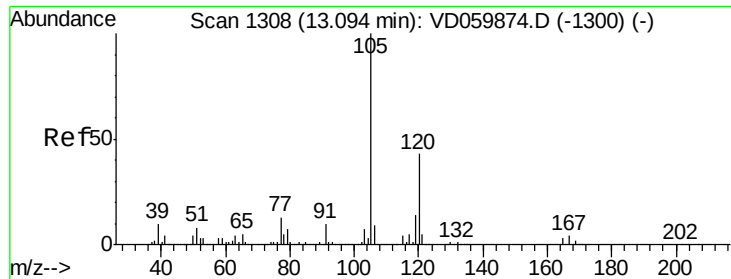
Tot Ion:105 Resp: 21837
 Ion Ratio Lower Upper
 105 100
 120 44.1 24.5 73.5



#81
 trans-1,4-Dichloro-2-butene
 Concen: 114.09 ug/l
 RT: 12.44 min Scan# 1241
 Delta R.T. 0.09 min
 Lab File: VD059892.D
 Acq: 23 Aug 2018 17:04

Tgt Ion: 75 Resp: 136260
 Ion Ratio Lower Upper
 75 100
 53 0.4 75.8 113.6#
 89 0.0 33.6 50.4#

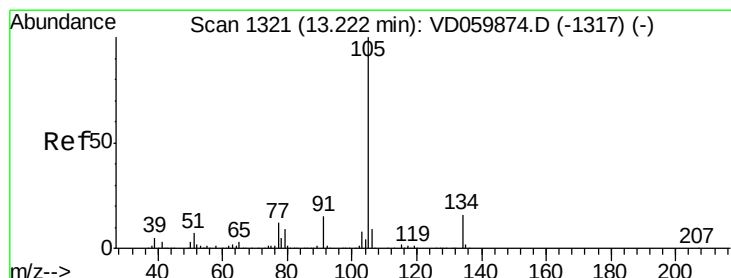
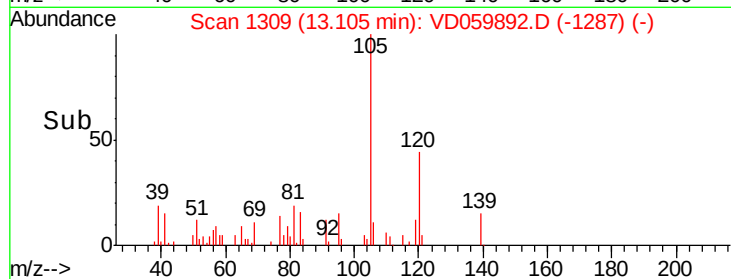
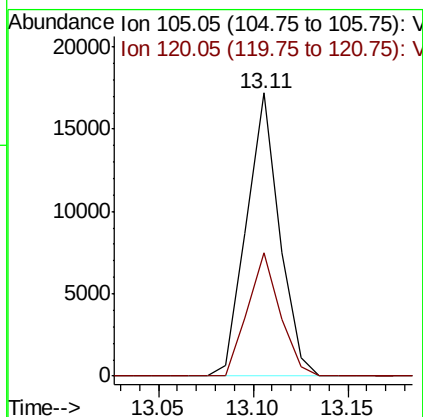
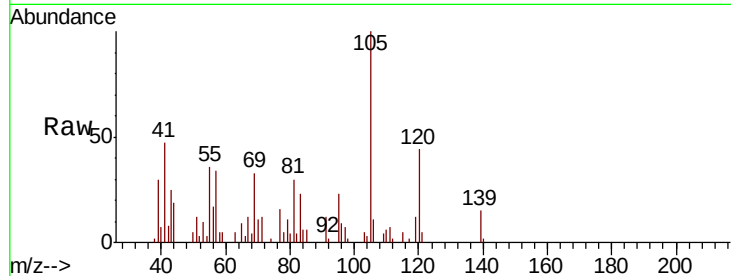




#84
 1,2,4-Trimethylbenzene
 Concen: 1.59 ug/l
 RT: 13.11 min Scan# 1309
 Delta R.T. 0.01 min
 Lab File: VD059892.D
 Acq: 23 Aug 2018 17:04

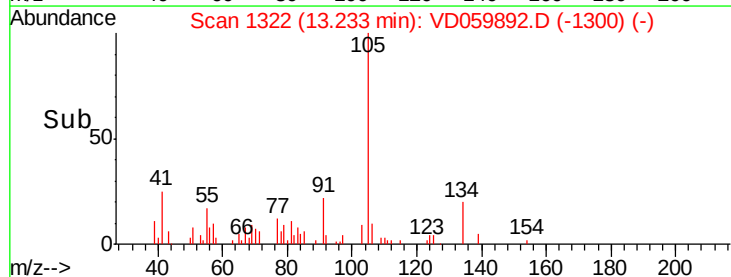
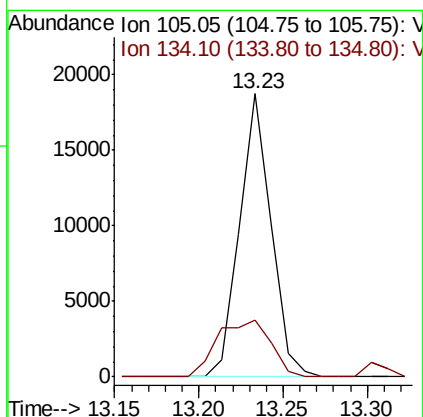
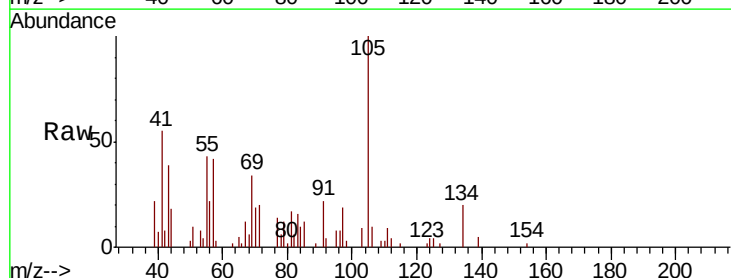
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-053

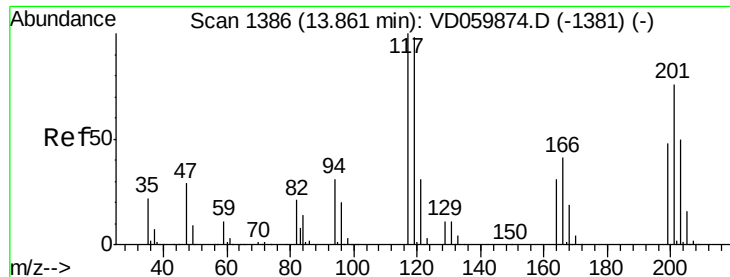
Tot Ion:105 Resp: 20777
 Ion Ratio Lower Upper
 105 100
 120 43.7 21.8 65.3



#85
 sec-Butylbenzene
 Concen: 1.44 ug/l
 RT: 13.23 min Scan# 1322
 Delta R.T. 0.01 min
 Lab File: VD059892.D
 Acq: 23 Aug 2018 17:04

Tgt Ion:105 Resp: 24263
 Ion Ratio Lower Upper
 105 100
 134 20.2 8.2 24.4





#90

Hexachloroethane

Concen: 2.06 ug/l

RT: 13.91 min Scan# 1391

Delta R.T. 0.05 min

Lab File: VD059892.D

Acq: 23 Aug 2018 17:04

Instrument :

MSVOA_D

ClientSampleId :

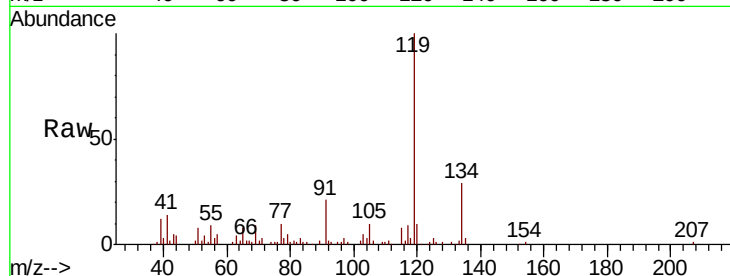
RA-081718-WSW-20-053

Tot Ion:117 Resp: 7573

Ion Ratio Lower Upper

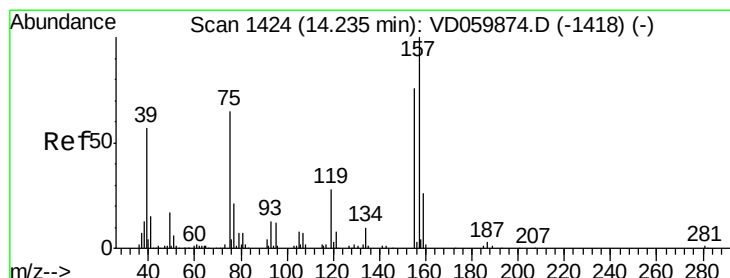
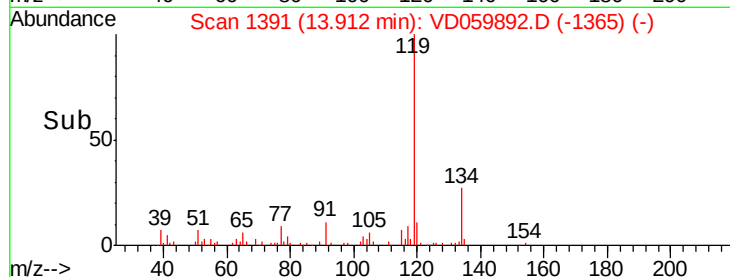
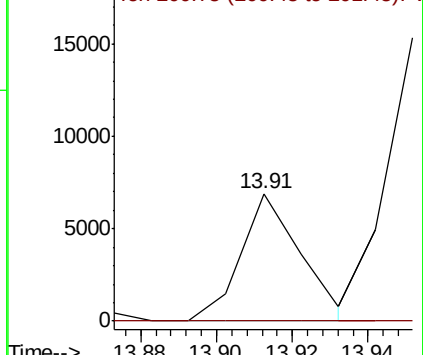
117 100

201 0.0 38.1 114.5#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.12 ug/l

RT: 14.22 min Scan# 1422

Delta R.T. -0.02 min

Lab File: VD059892.D

Acq: 23 Aug 2018 17:04

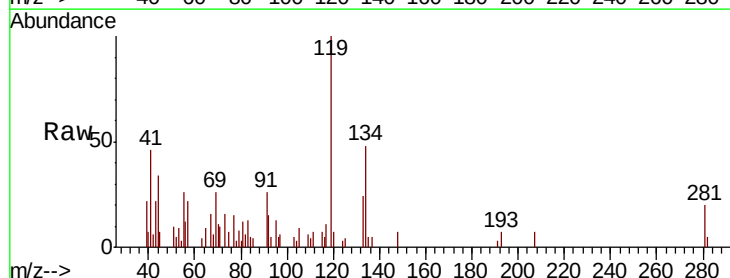
Tgt Ion: 75 Resp: 1750

Ion Ratio Lower Upper

75 100

155 0.0 58.2 174.6#

157 0.0 76.8 230.4#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

