

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082318\
 Data File : VD059887.D
 Acq On : 23 Aug 2018 14:42
 Operator : JC/SY
 Sample : J4559-04RE
 Misc : 5.00µg/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-SSW-75-048RE

Quant Time: Aug 24 05:25:09 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	6.39	168	757589	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.44	114	1036944	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	611880	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	190140	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	413937	64.83	ug/l	-0.02
Spiked Amount			Recovery	=	129.66%	
35) Dibromofluoromethane	6.31	113	386440	47.53	ug/l	-0.02
Spiked Amount			Recovery	=	95.06%	
50) Toluene-d8	9.44	98	1146202	50.80	ug/l	-0.02
Spiked Amount			Recovery	=	101.60%	
62) 4-Bromofluorobenzene	12.43	95	306711	33.47	ug/l	0.00
Spiked Amount			Recovery	=	66.94%	

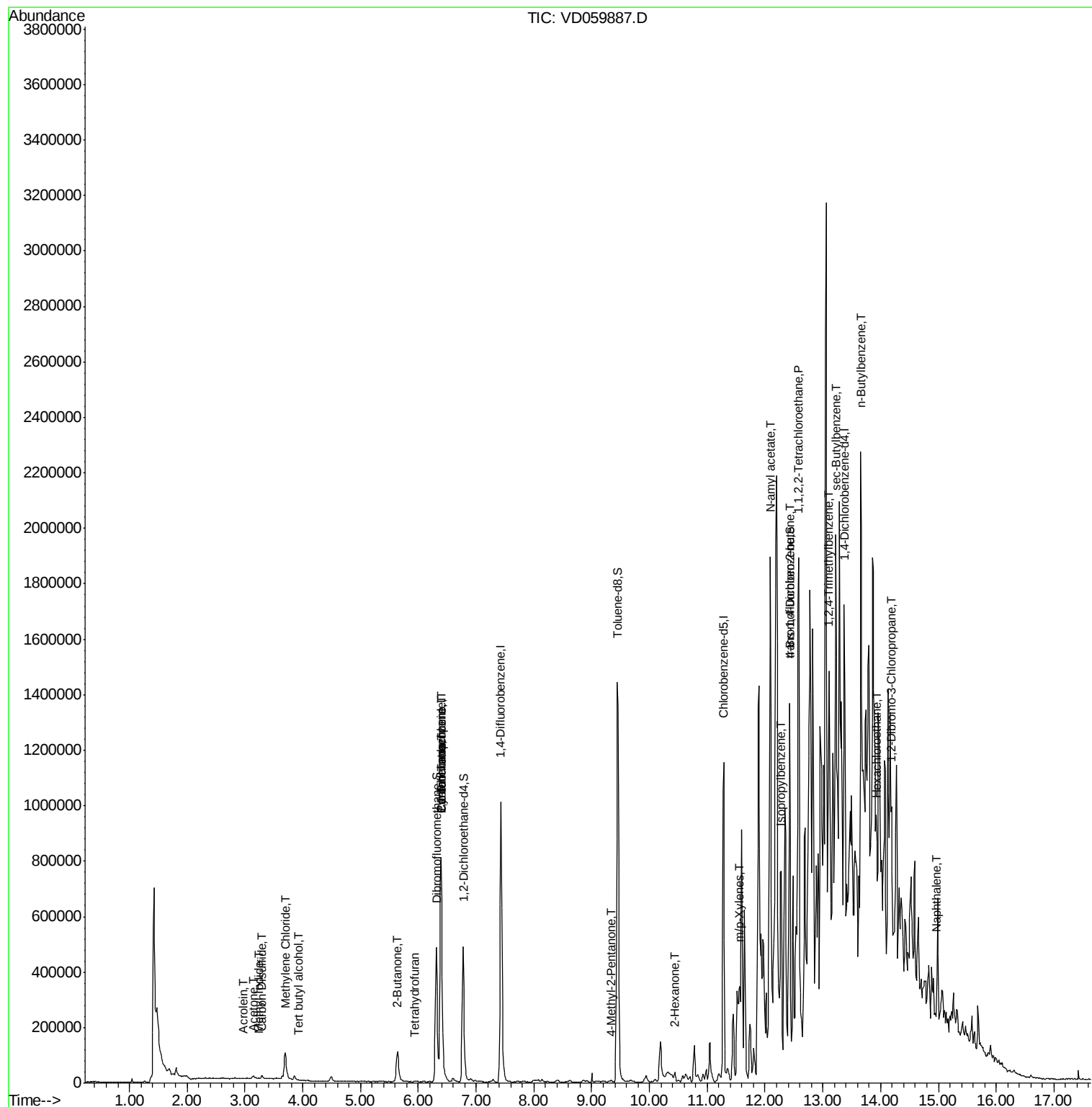
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.23	142	180	3.51	ug/l #	31
11) Tert butyl alcohol	3.92	59	2976	6.11	ug/l #	75
13) Acrolein	2.98	56	1008	4.77	ug/l #	15
16) Acetone	3.14	43	17927	15.41	ug/l #	88
17) Carbon Disulfide	3.29	76	16440	2.00	ug/l	99
20) Methylene Chloride	3.70	84	53478	3.42	ug/l	98
25) 2-Butanone	5.63	43	16843	4.89	ug/l	97
29) Tetrahydrofuran	5.93	42	3193	1.95	ug/l #	48
31) Cyclohexane	6.38	56	16527	1.36	ug/l #	1
36) 1,1-Dichloropropene	6.39	75	56948	6.06	ug/l #	47
38) Carbon Tetrachloride	6.39	117	63890	6.74	ug/l #	16
51) 4-Methyl-2-Pentanone	9.34	43	9359	1.32	ug/l #	86
59) 2-Hexanone	10.44	43	27002	5.16	ug/l #	35
68) m/p-Xylenes	11.56	106	25294	3.40	ug/l #	70
73) Isopropylbenzene	12.28	105	46293	3.81	ug/l	98
74) N-amyl acetate	12.09	43	362731	68.25	ug/l #	62
75) 1,1,2,2-Tetrachloroethane	12.58	83	105869	37.71	ug/l #	58
81) trans-1,4-Dichloro-2-buten	12.43	75	120346	130.92	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.09	105	11819	1.18	ug/l	96
85) sec-Butylbenzene	13.22	105	49041	3.79	ug/l	98
89) n-Butylbenzene	13.66	91	25296	1.22	ug/l #	50
90) Hexachloroethane	13.94	117	21964	7.78	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.19	75	1444	3.35	ug/l #	9
95) Naphthalene	14.96	128	10168	1.52	ug/l #	83

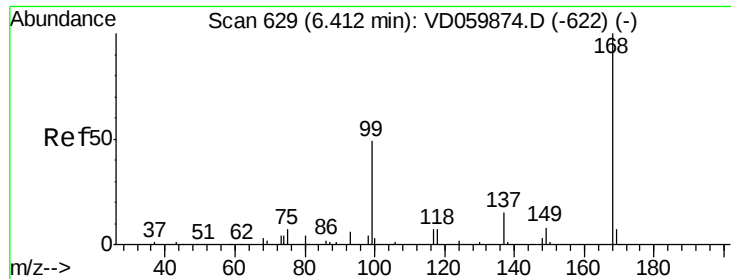
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD082318\
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Quant Title : SW846 8260
QLast Update : Thu Aug 23 03:03:08 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.39 min Scan# 627

Delta R.T. -0.02 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

Instrument :

MSVOA_D

ClientSampleId :

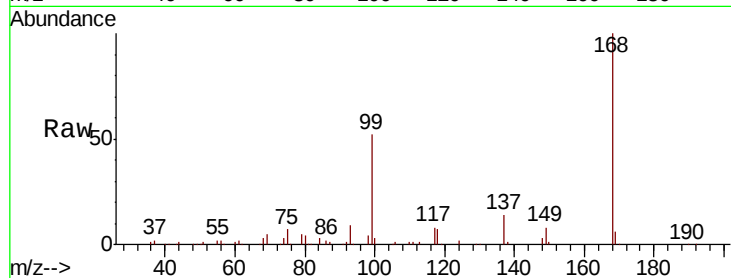
RA-081718-SSW-75-048RE

Tot Ion:168 Resp: 757589

Ion Ratio Lower Upper

168 100

99 51.9 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

6.39

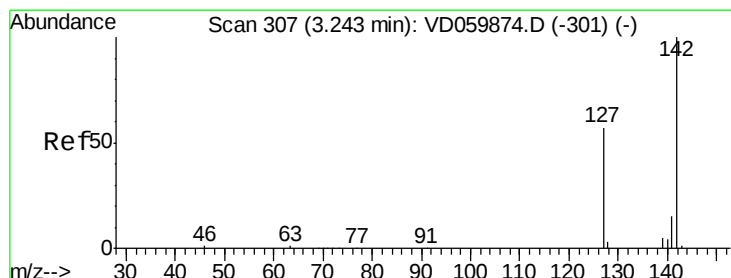
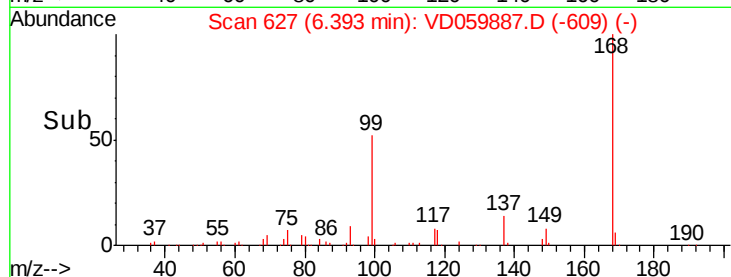
300000

200000

100000

0

Time-->



#10

Methyl Iodide

Concen: 3.51 ug/l

RT: 3.23 min Scan# 306

Delta R.T. -0.01 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

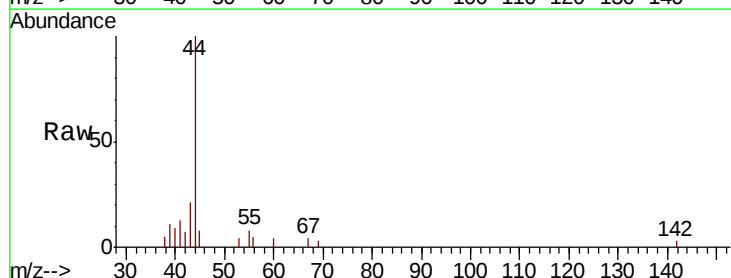
Tgt Ion:142 Resp: 180

Ion Ratio Lower Upper

142 100

127 0.0 45.8 68.6#

141 0.0 11.6 17.4#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

3.23

400

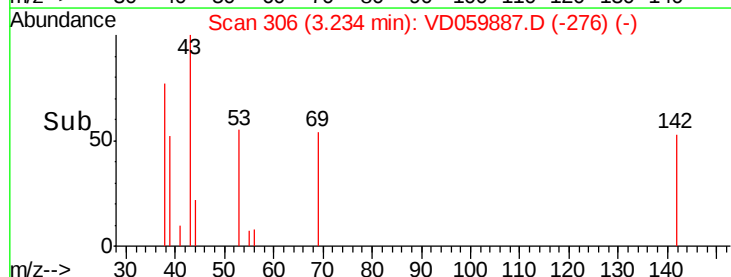
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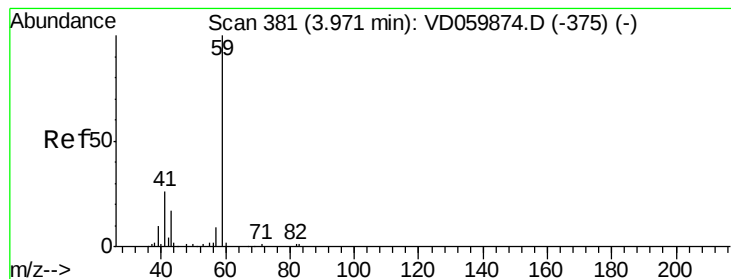
200

100

0

Time-->



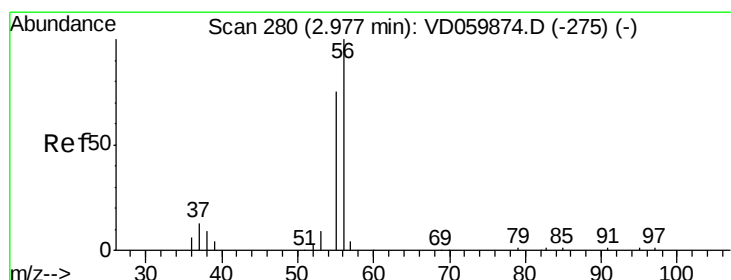
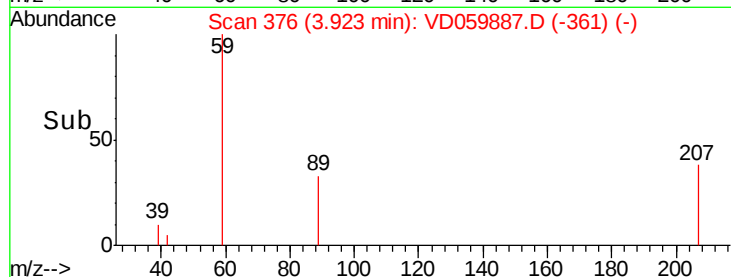
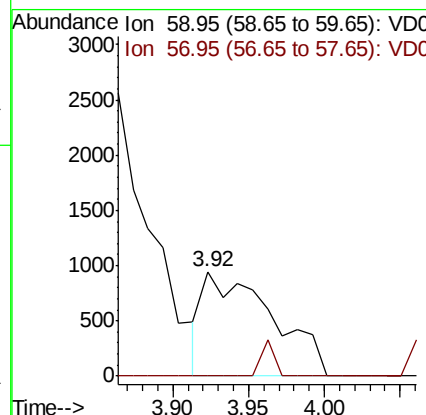
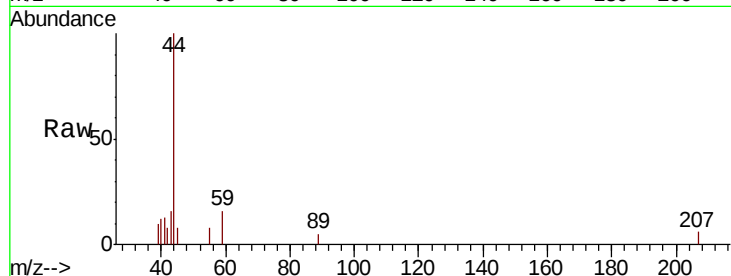


#11

Tert butyl alcohol
 Concen: 6.11 ug/l
 RT: 3.92 min Scan# 376
 Delta R.T. -0.05 min
 Lab File: VD059887.D
 Acq: 23 Aug 2018 14:42

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-SSW-75-048RE

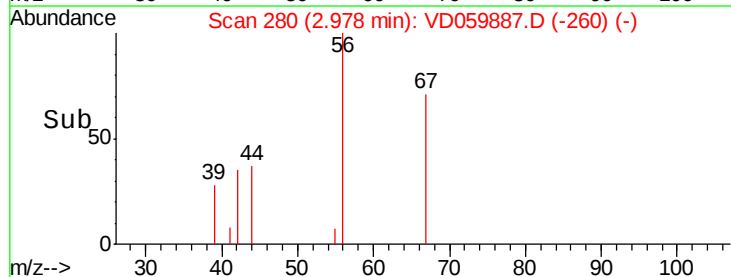
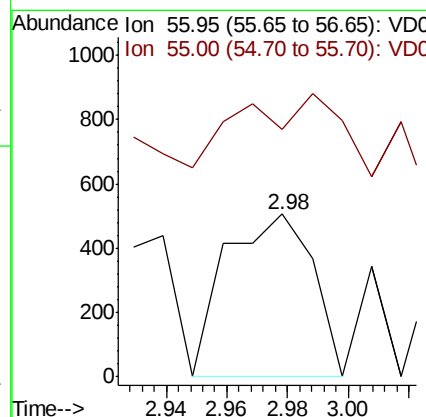
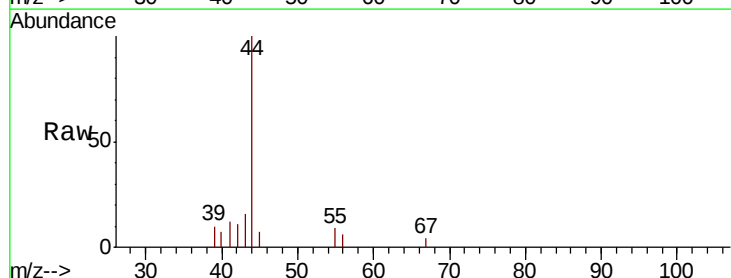
Tot Ion: 59 Resp: 2976
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.4 11.0#

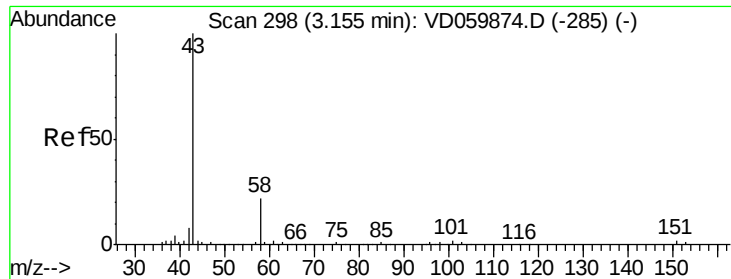


#13

Acrolein
 Concen: 4.77 ug/l
 RT: 2.98 min Scan# 280
 Delta R.T. 0.00 min
 Lab File: VD059887.D
 Acq: 23 Aug 2018 14:42

Tgt Ion: 56 Resp: 1008
 Ion Ratio Lower Upper
 56 100
 55 151.5 61.9 92.9#





#16

Acetone

Concen: 15.41 ug/l

RT: 3.14 min Scan# 296

Delta R.T. -0.02 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

Instrument :

MSVOA_D

ClientSampleId :

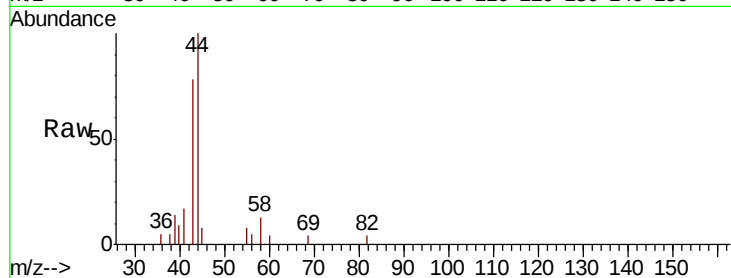
RA-081718-SSW-75-048RE

Tot Ion: 43 Resp: 17927

Ion Ratio Lower Upper

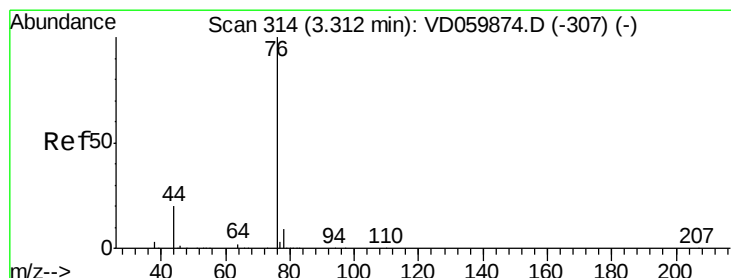
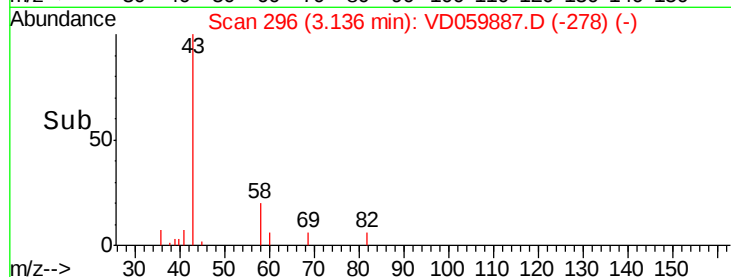
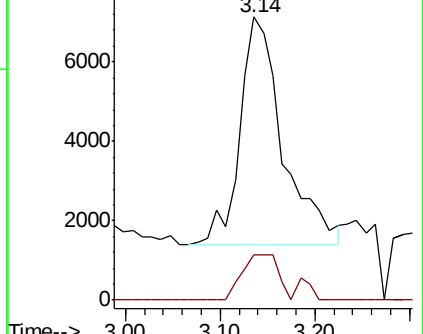
43 100

58 16.2 17.6 26.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 2.00 ug/l

RT: 3.29 min Scan# 312

Delta R.T. -0.02 min

Lab File: VD059887.D

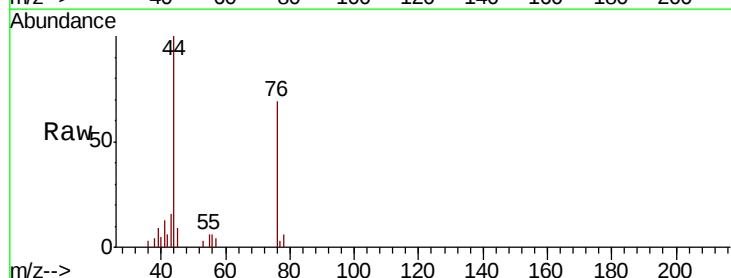
Acq: 23 Aug 2018 14:42

Tgt Ion: 76 Resp: 16440

Ion Ratio Lower Upper

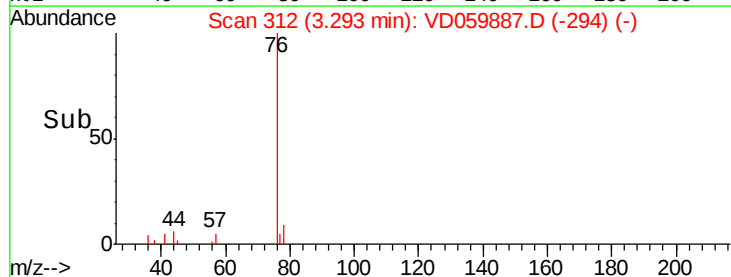
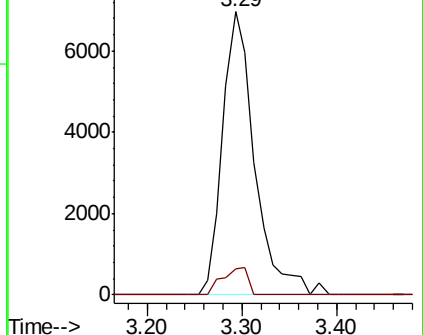
76 100

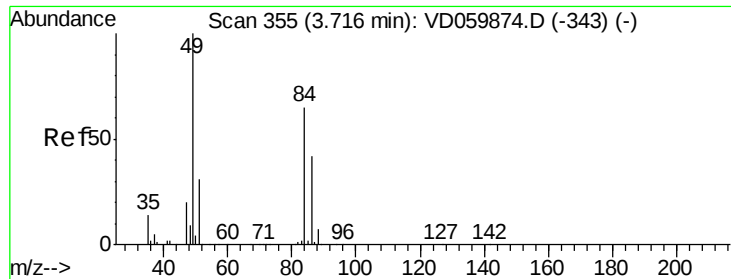
78 9.0 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

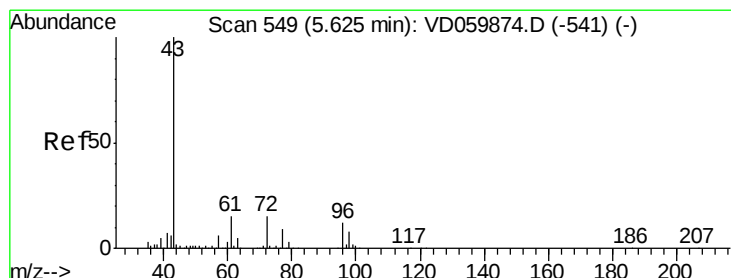
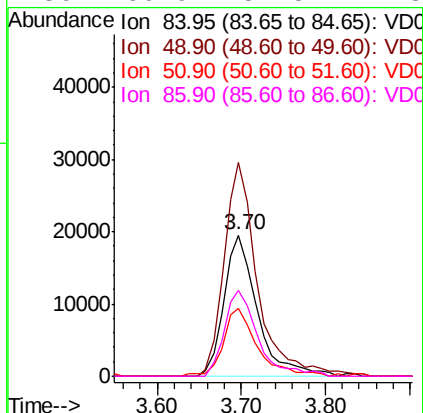
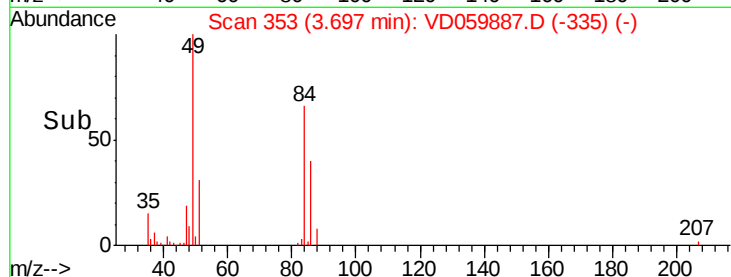
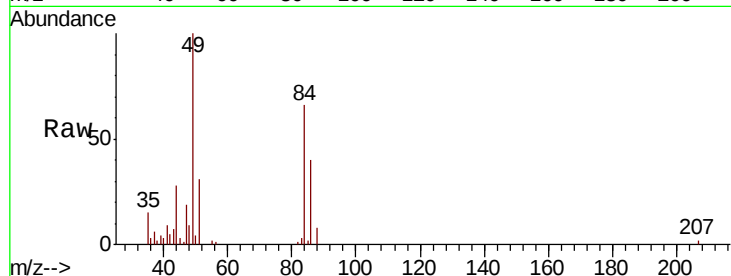




#20
Methvlene Chloride
Concen: 3.42 ug/l
RT: 3.70 min Scan# 353
Delta R.T. -0.02 min
Lab File: VD059887.D
Acq: 23 Aug 2018 14:42

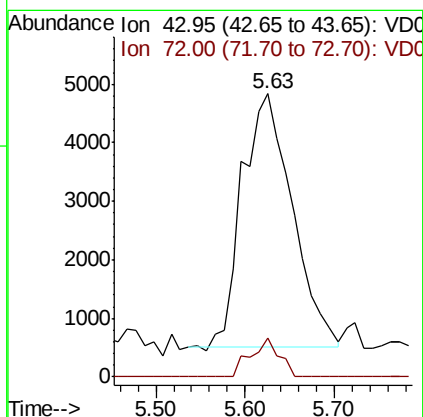
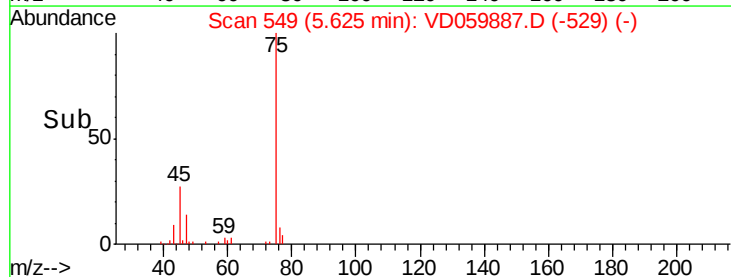
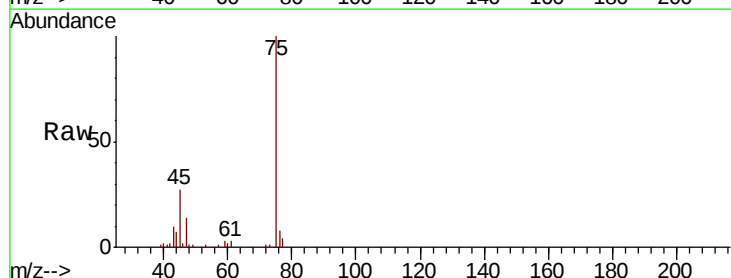
Instrument :
MSVOA_D
ClientSampleId :
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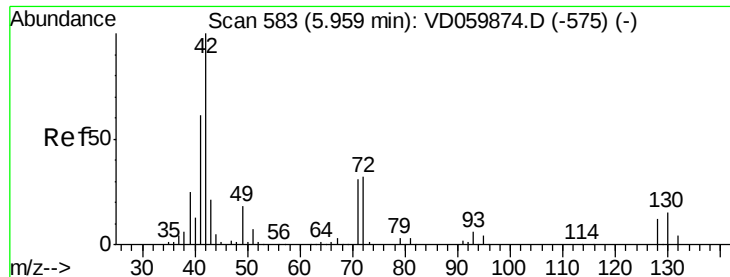
Tot Ion: 84 Resp: 53478
Ion Ratio Lower Upper
84 100
49 151.3 122.6 183.8
51 47.6 38.4 57.6
86 60.9 51.5 77.3



#25
2-Butanone
Concen: 4.89 ug/l
RT: 5.63 min Scan# 549
Delta R.T. 0.00 min
Lab File: VD059887.D
Acq: 23 Aug 2018 14:42

Tgt Ion: 43 Resp: 16843
Ion Ratio Lower Upper
43 100
72 14.0 12.3 18.5





#29

Tetrahydrofuran

Concen: 1.95 ug/l

RT: 5.93 min Scan# 580

Delta R.T. -0.03 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-SSW-75-048RE

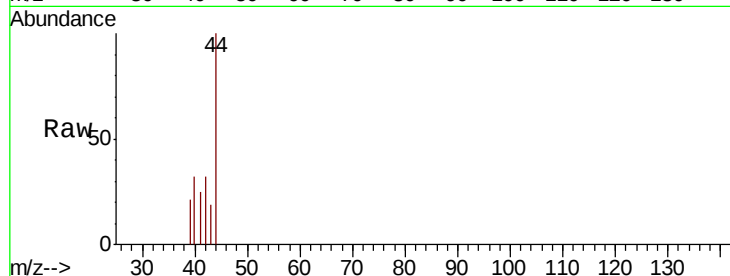
Tot Ion: 42 Resp: 3193

Ion Ratio Lower Upper

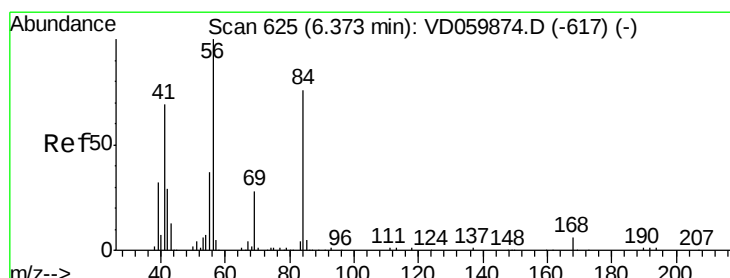
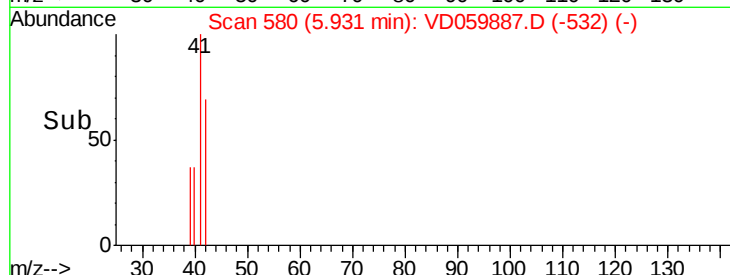
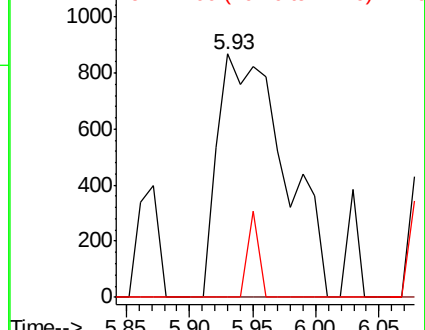
42 100

72 0.0 25.7 38.5#

71 5.7 25.3 37.9#



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: 1.36 ug/l

RT: 6.38 min Scan# 626

Delta R.T. 0.01 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

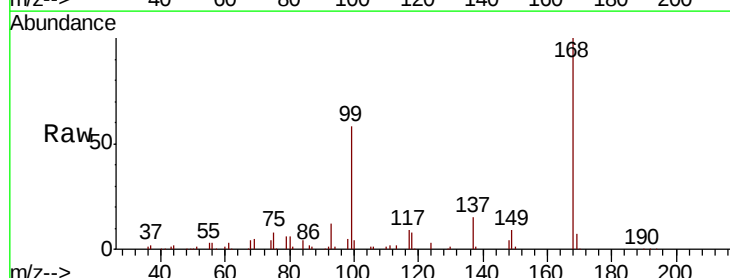
Tgt Ion: 56 Resp: 16527

Ion Ratio Lower Upper

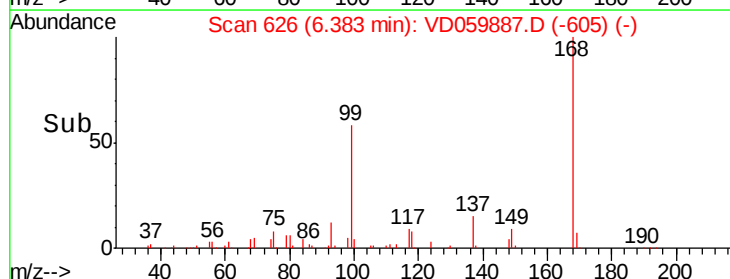
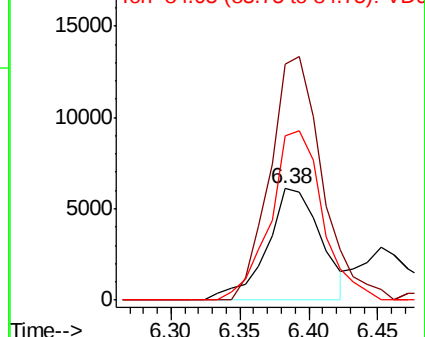
56 100

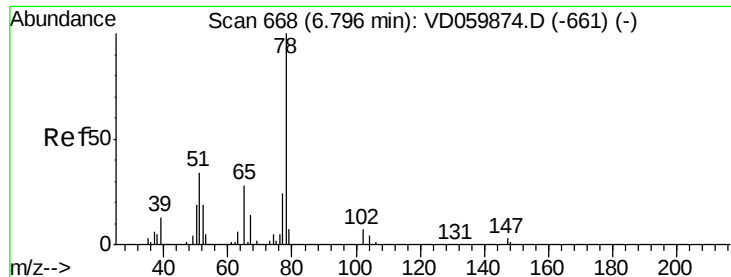
69 212.2 22.4 33.6#

84 147.9 62.1 93.1#



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: N.D. ug/l

RT: 6.78 min Scan# 666

Delta R.T. -0.02 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

Instrument :

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ClientSampleId :

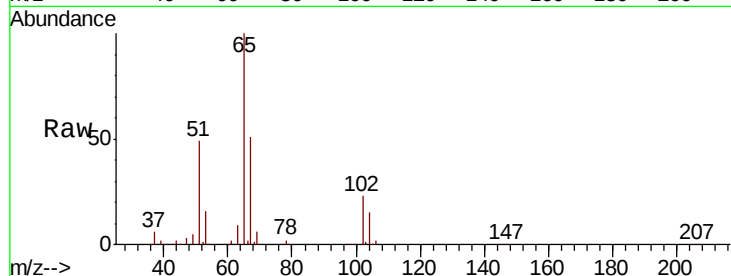
RA-081718-SSW-75-048RE

Tot Ion: 65 Resp: 413937

Ion Ratio Lower Upper

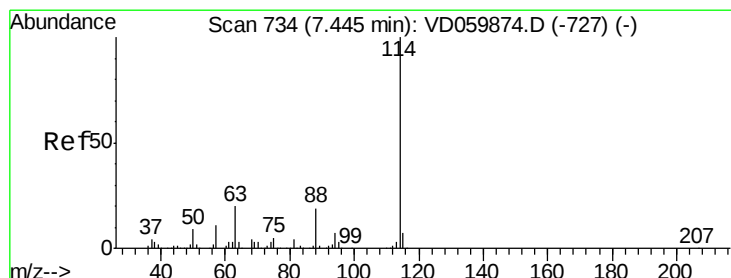
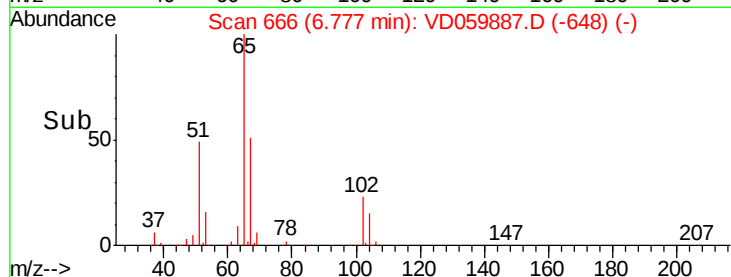
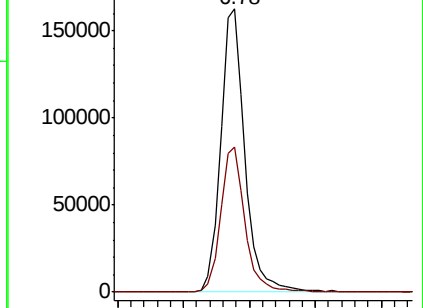
65 100

67 51.5 0.0 103.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.44 min Scan# 733

Delta R.T. -0.01 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

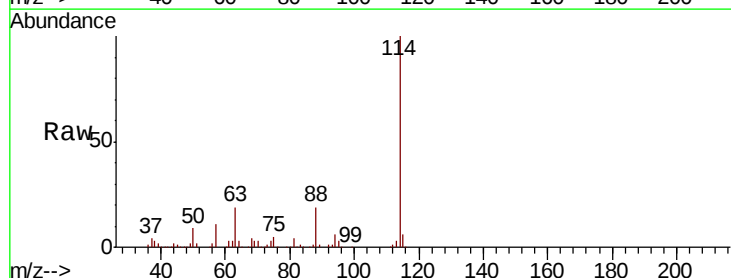
Tgt Ion: 114 Resp: 1036944

Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.4

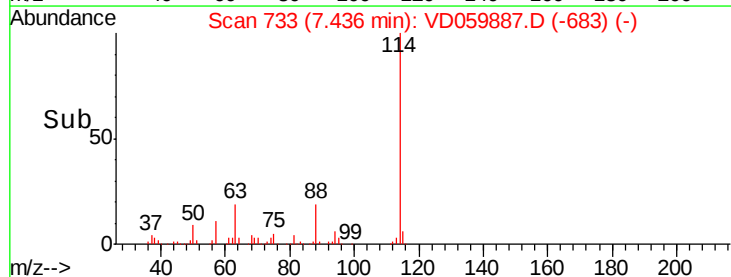
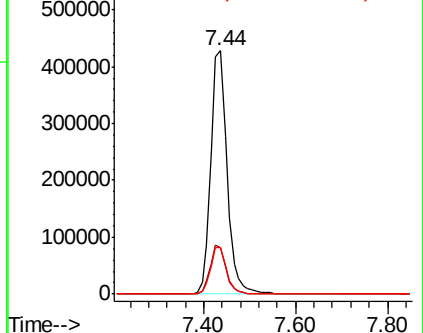
88 19.2 0.0 37.6

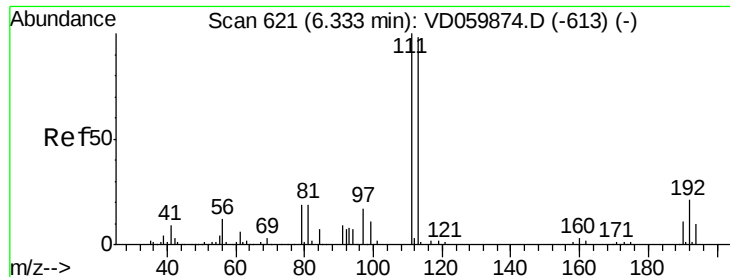


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

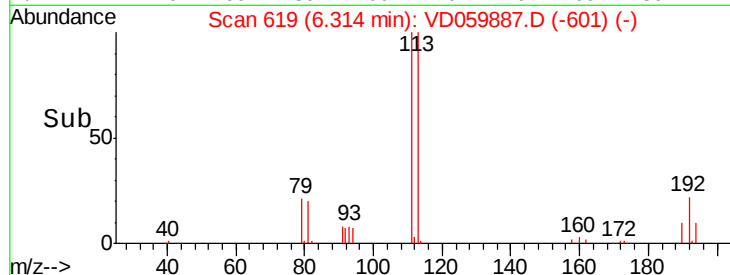
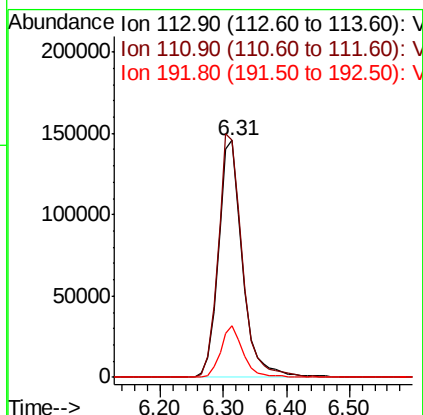
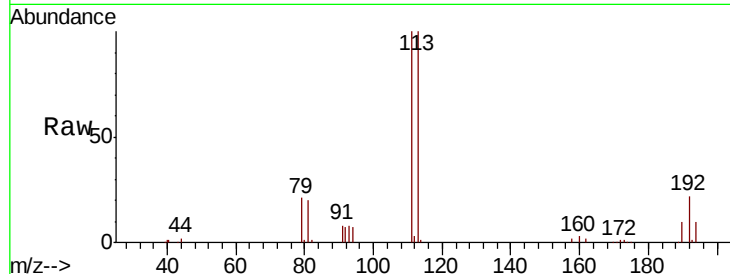




#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 6.31 min Scan# 619
 Delta R.T. -0.02 min
 Lab File: VD059887.D
 Acq: 23 Aug 2018 14:42

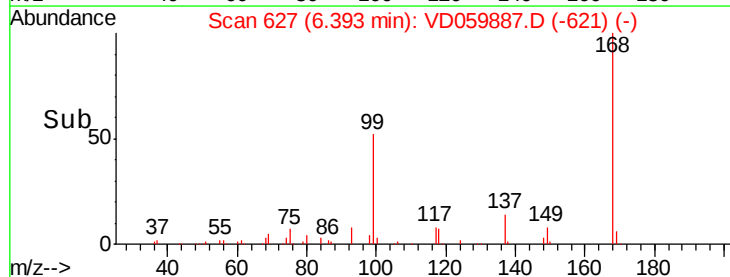
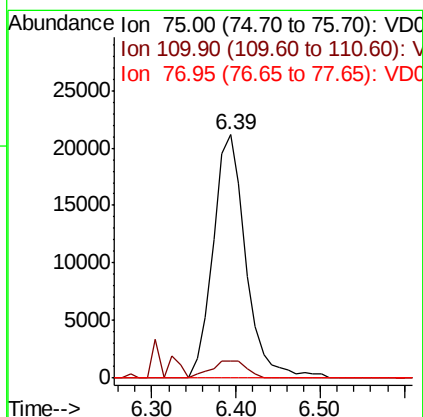
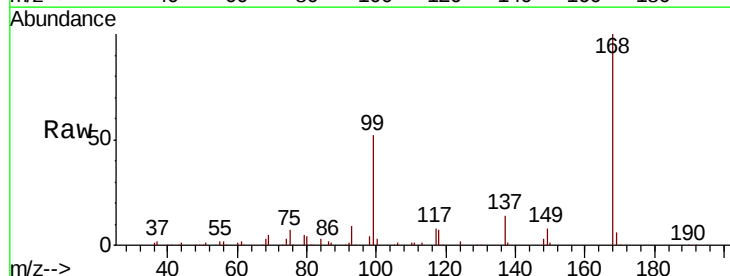
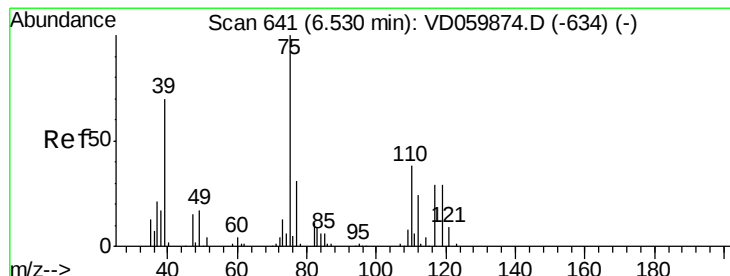
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-SSW-75-048RE

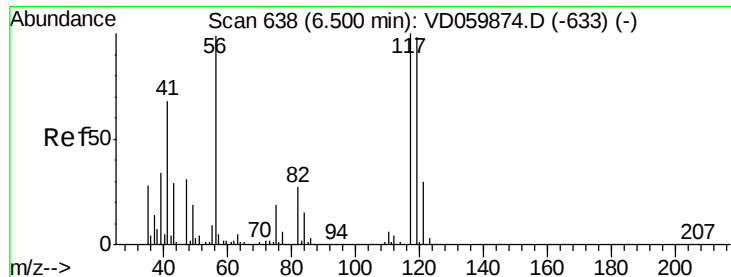
Tot Ion:113 Resp: 386440
 Ion Ratio Lower Upper
 113 100
 111 100.4 81.4 122.2
 192 21.8 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 6.06 ug/l
 RT: 6.39 min Scan# 627
 Delta R.T. -0.14 min
 Lab File: VD059887.D
 Acq: 23 Aug 2018 14:42

Tgt Ion: 75 Resp: 56948
 Ion Ratio Lower Upper
 75 100
 110 7.0 18.6 56.0#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.74 ug/l

RT: 6.39 min Scan# 627

Delta R.T. -0.11 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-SSW-75-048RE

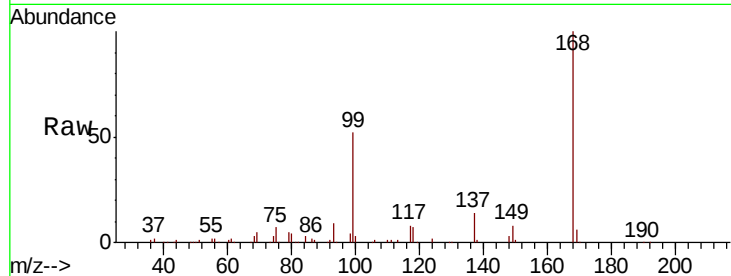
Tot Ion:117 Resp: 63890

Ion Ratio Lower Upper

117 100

119 4.9 77.2 115.8#

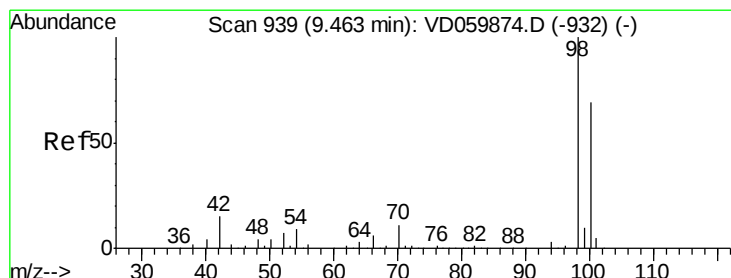
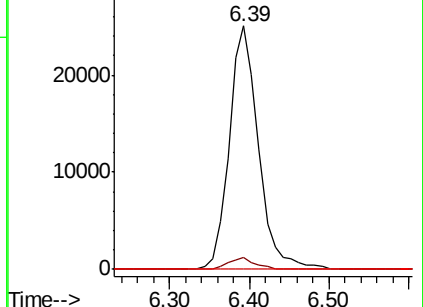
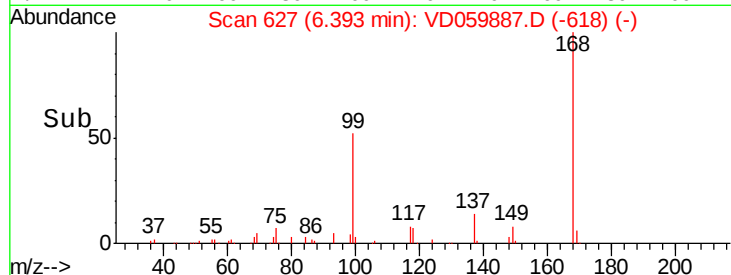
121 0.0 24.0 36.0#



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: 9.44 min Scan# 937

Delta R.T. -0.02 min

Lab File: VD059887.D

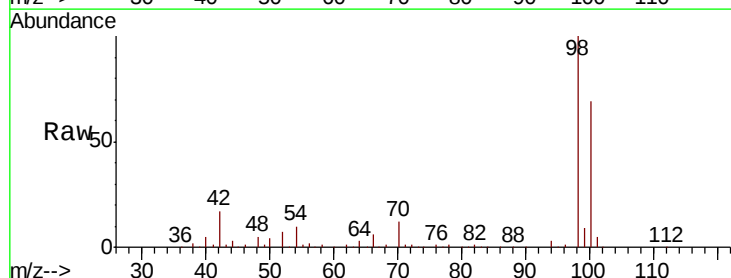
Acq: 23 Aug 2018 14:42

Tgt Ion: 98 Resp: 1146202

Ion Ratio Lower Upper

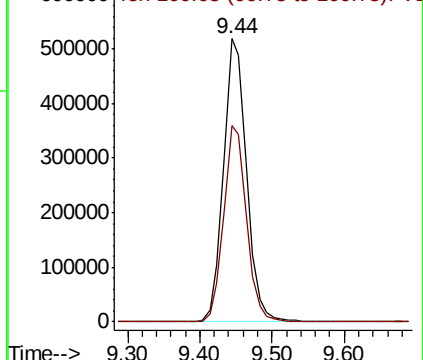
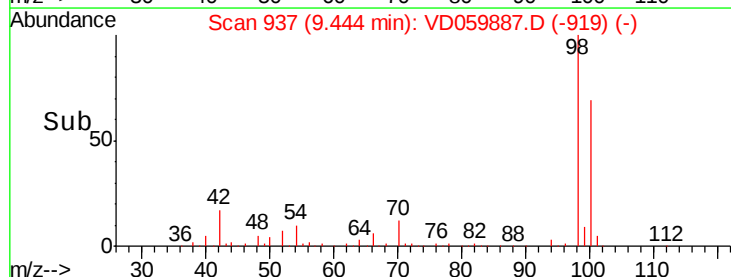
98 100

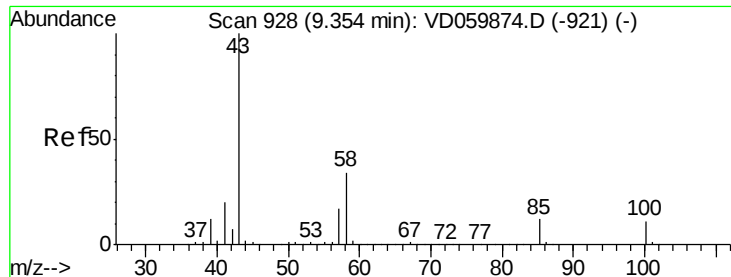
100 69.5 55.8 83.6



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: 1.32 ug/l

RT: 9.34 min Scan# 926

Delta R.T. -0.02 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

Instrument :

MSVOA_D

ClientSampleId :

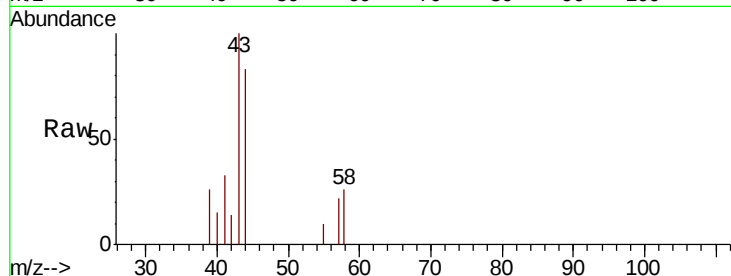
RA-081718-SSW-75-048RE

Tot Ion: 43 Resp: 9359

Ion Ratio Lower Upper

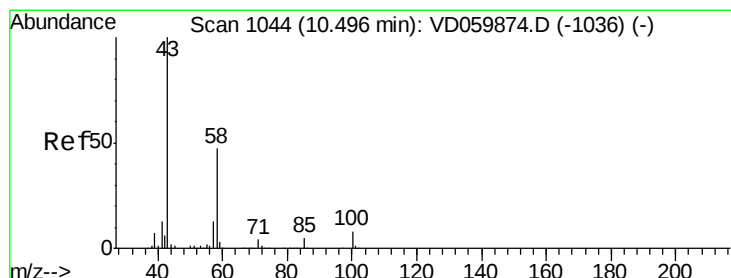
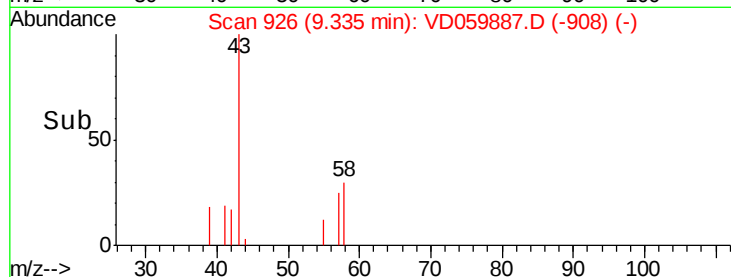
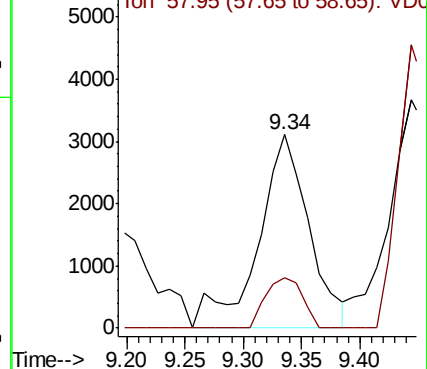
43 100

58 25.8 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: 5.16 ug/l

RT: 10.44 min Scan# 1038

Delta R.T. -0.06 min

Lab File: VD059887.D

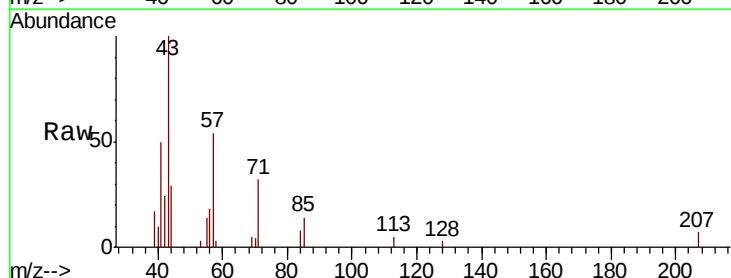
Acq: 23 Aug 2018 14:42

Tgt Ion: 43 Resp: 27002

Ion Ratio Lower Upper

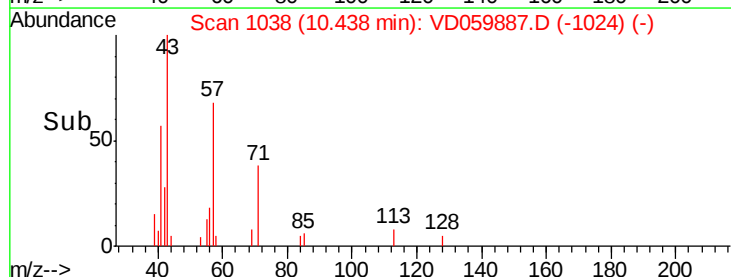
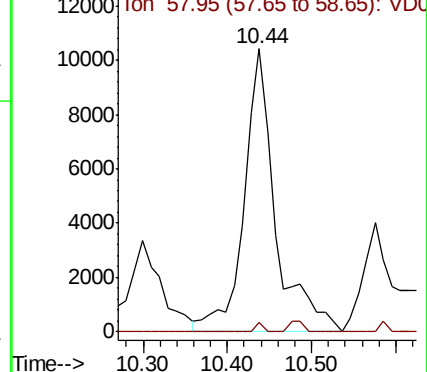
43 100

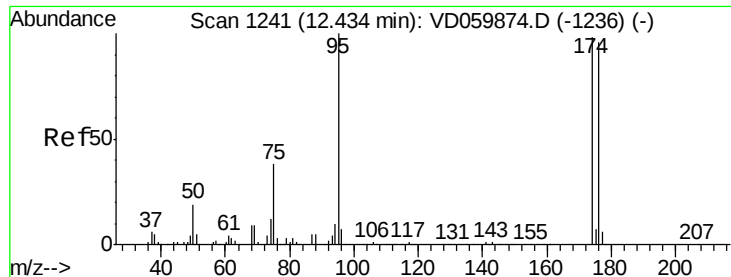
58 3.1 23.3 69.8#



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: 12.43 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-SSW-75-048RE

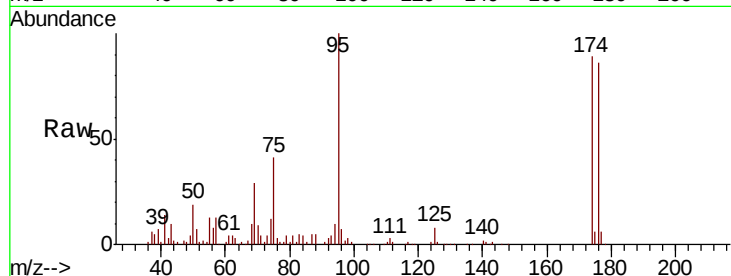
Tot Ion: 95 Resp: 306711

Ion Ratio Lower Upper

95 100

174 89.1 0.0 195.6

176 85.9 0.0 191.2

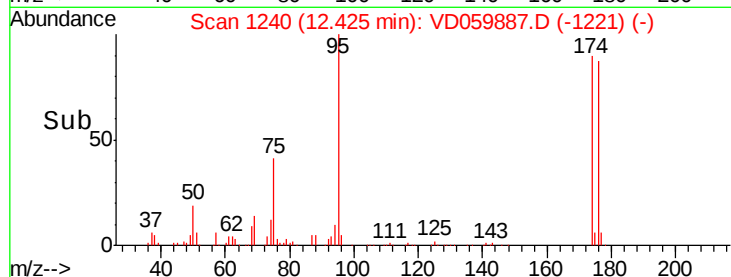


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

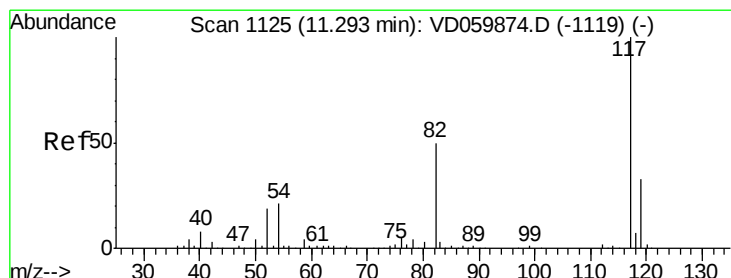
Ion 175.90 (175.60 to 176.60): V

Time-->



12.43

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.28 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

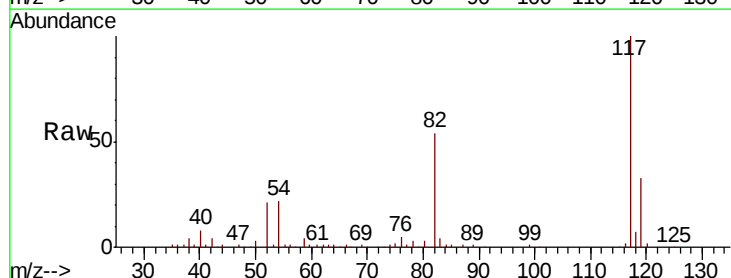
Tgt Ion: 117 Resp: 611880

Ion Ratio Lower Upper

117 100

82 54.4 40.1 60.1

119 33.0 26.7 40.1

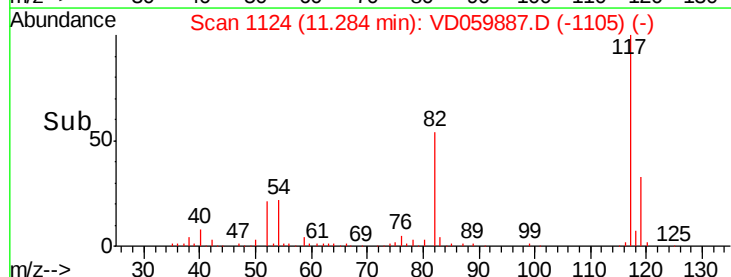


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

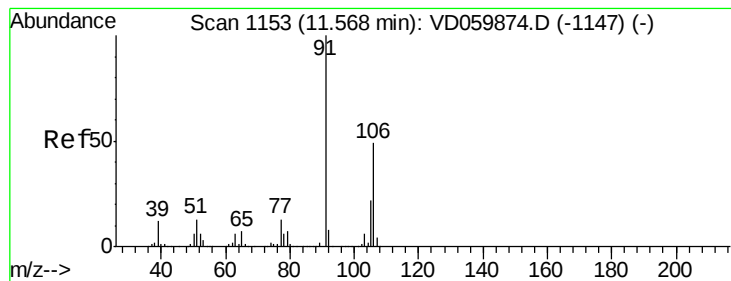
Ion 118.95 (118.65 to 119.65): V

Time-->



11.28

Time-->



#68

m/p-Xvlenes

Concen: 3.40 ug/l

RT: 11.56 min Scan# 1152

Delta R.T. -0.01 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

Instrument :

MSVOA_D

ClientSampleId :

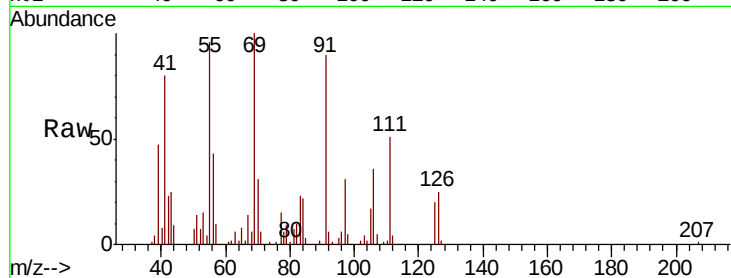
RA-081718-SSW-75-048RE

Tot Ion:106 Resp: 25294

Ion Ratio Lower Upper

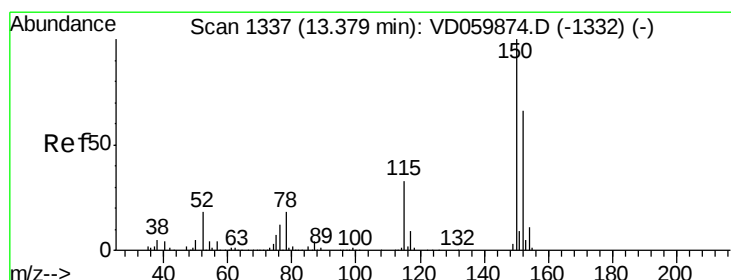
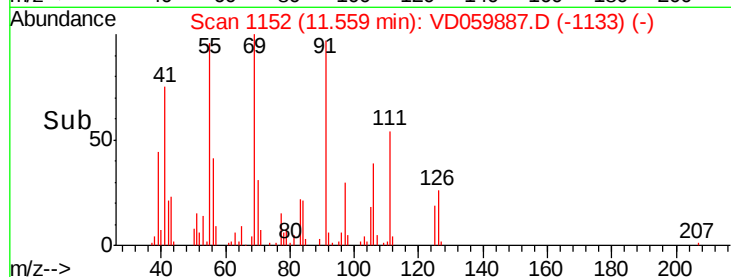
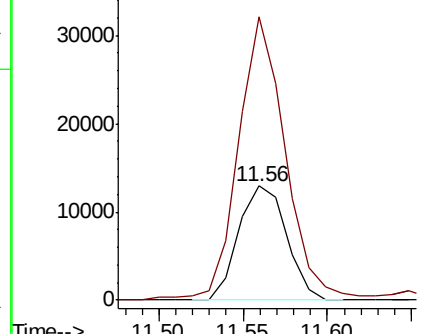
106 100

91 248.5 162.0 243.0#



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: 13.37 min Scan# 1336

Delta R.T. -0.01 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

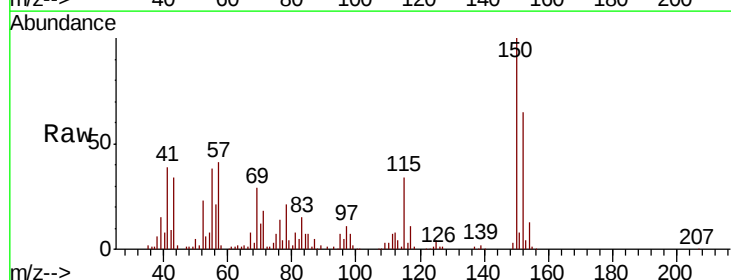
Tgt Ion:152 Resp: 190140

Ion Ratio Lower Upper

152 100

115 53.1 25.7 77.0

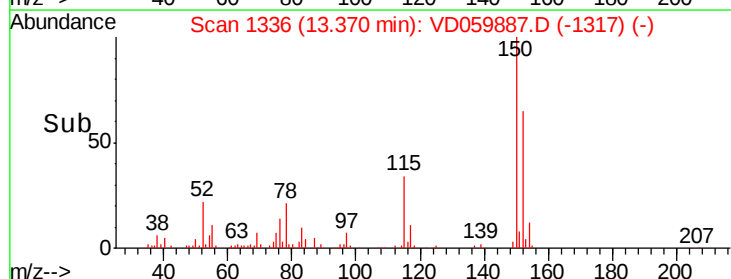
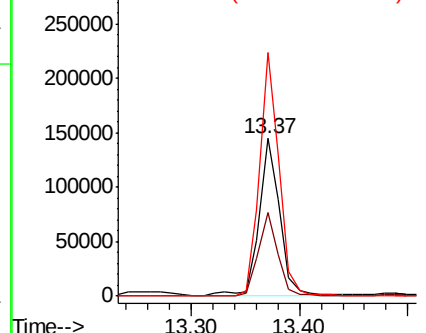
150 154.3 0.0 310.2

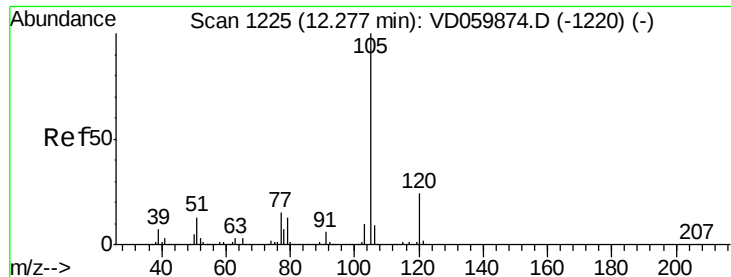


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 3.81 ug/l

RT: 12.28 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

Instrument :

MSVOA_D

ClientSampleId :

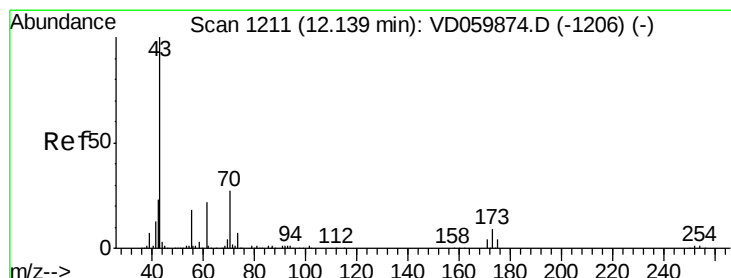
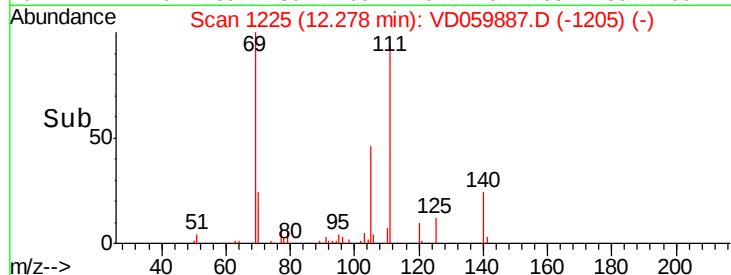
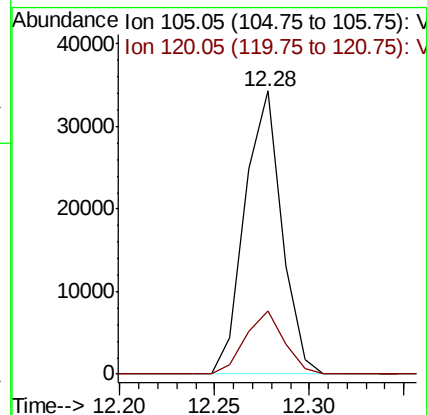
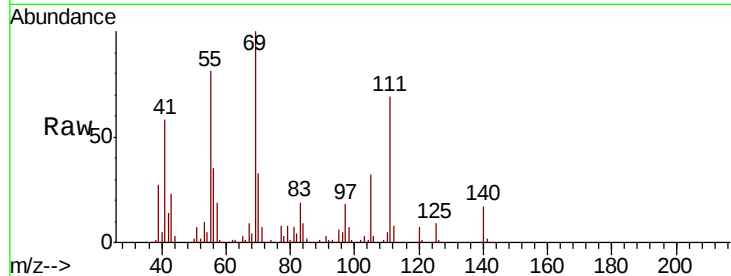
RA-081718-SSW-75-048RE

Tot Ion:105 Resp: 46293

Ion Ratio Lower Upper

105 100

120 22.5 11.8 35.4



#74

N-ethyl acetate

Concen: 68.25 ug/l

RT: 12.09 min Scan# 1206

Delta R.T. -0.05 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

Tgt Ion: 43 Resp: 362731

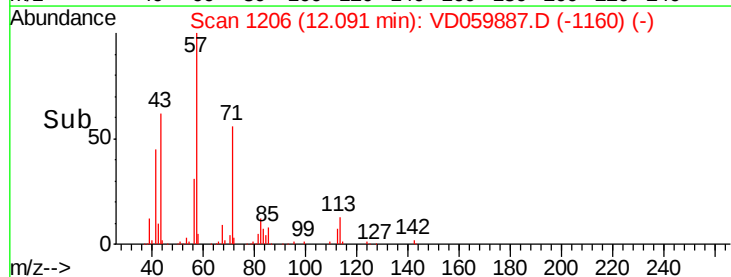
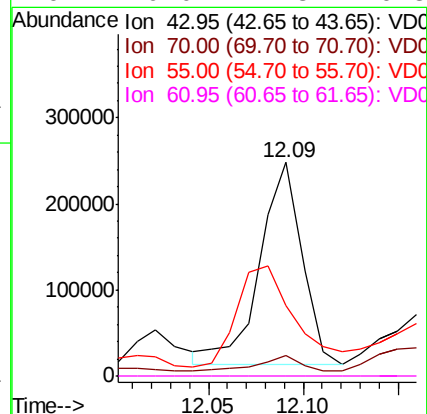
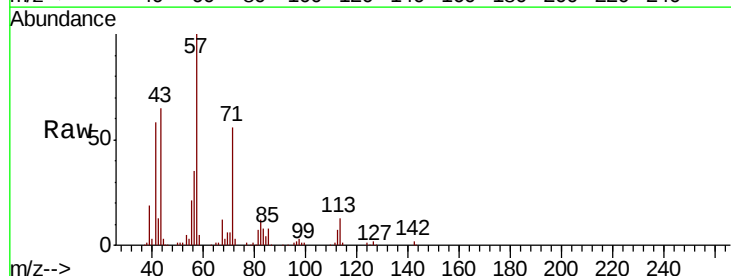
Ion Ratio Lower Upper

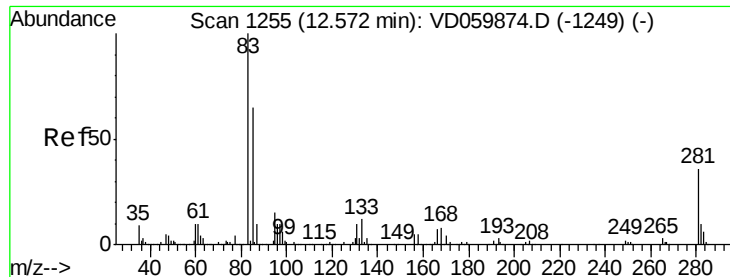
43 100

70 9.3 21.4 32.2#

55 32.7 14.1 21.1#

61 0.0 17.8 26.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 37.71 ug/l

RT: 12.58 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-SSW-75-048RE

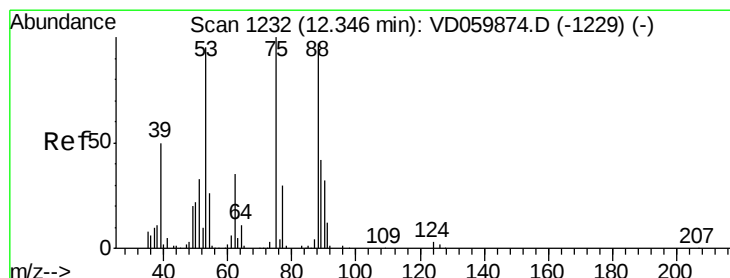
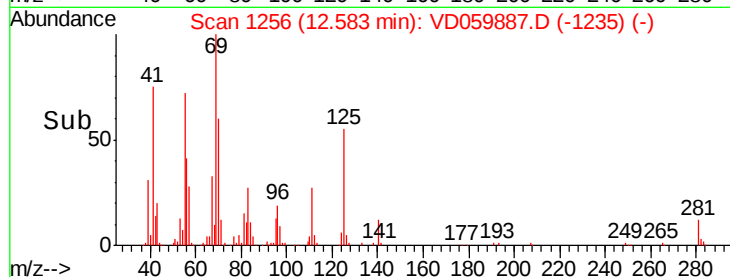
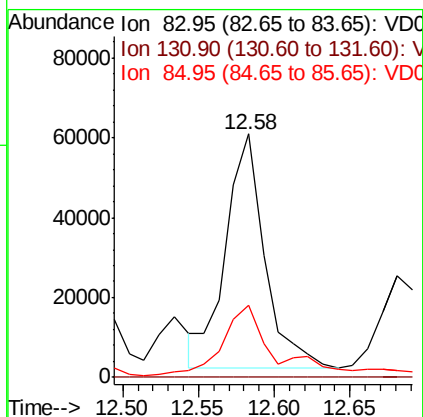
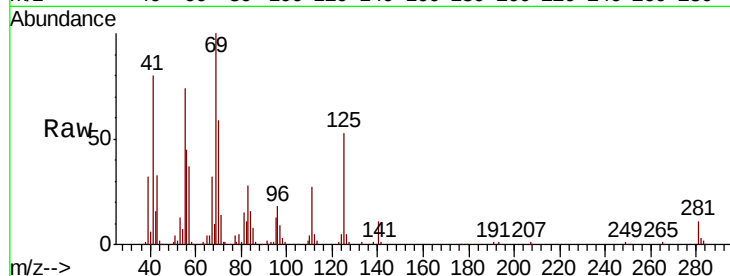
Tot Ion: 83 Resp: 105869

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

85 29.8 32.6 97.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 130.92 ug/l

RT: 12.43 min Scan# 1240

Delta R.T. 0.08 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

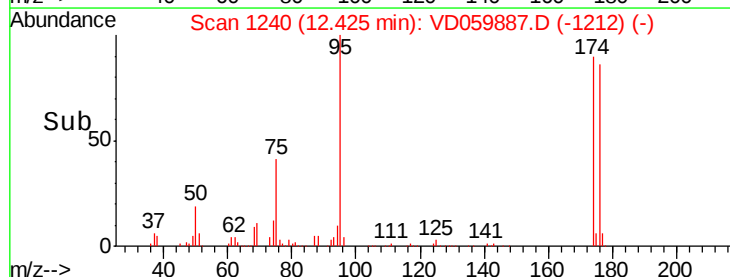
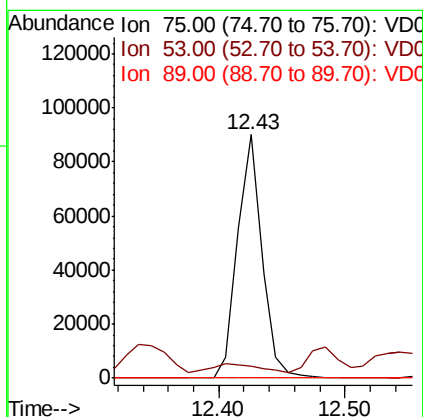
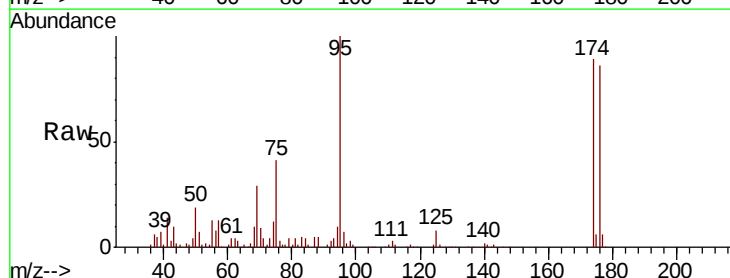
Tgt Ion: 75 Resp: 120346

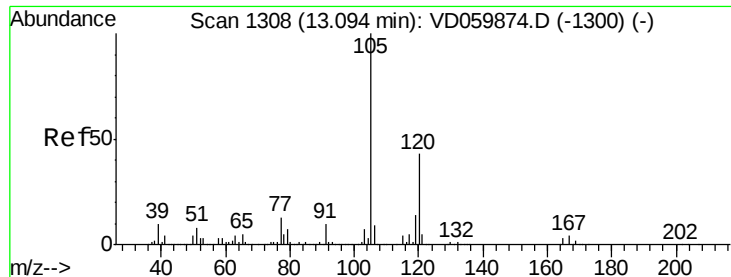
Ion Ratio Lower Upper

75 100

53 4.8 75.8 113.6#

89 0.0 33.6 50.4#

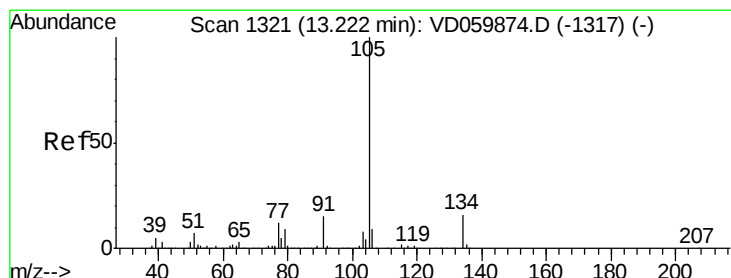
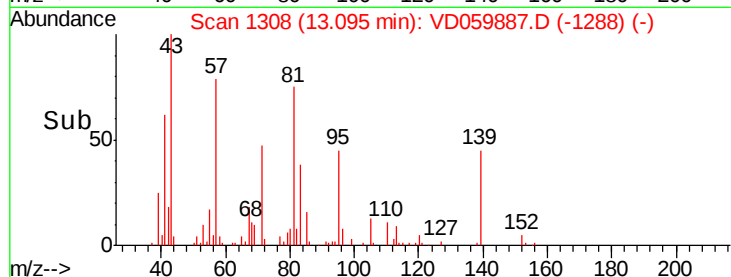
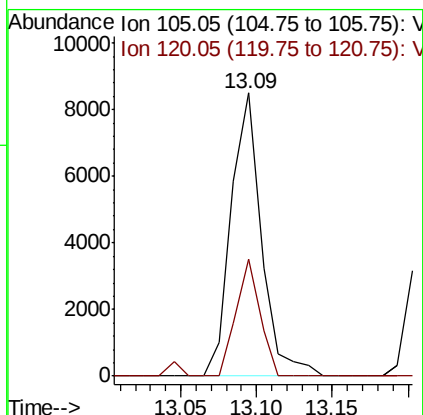
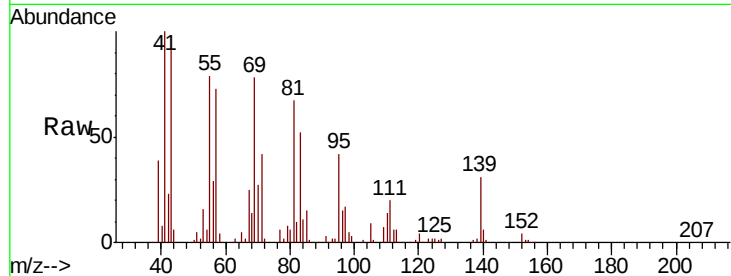




#84
1,2,4-Trimethylbenzene
Concen: 1.18 ug/l
RT: 13.09 min Scan# 1308
Delta R.T. 0.00 min
Lab File: VD059887.D
Acq: 23 Aug 2018 14:42

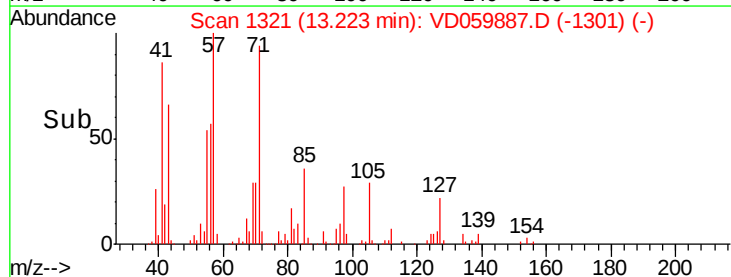
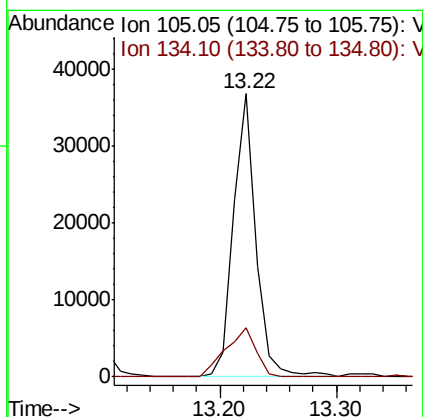
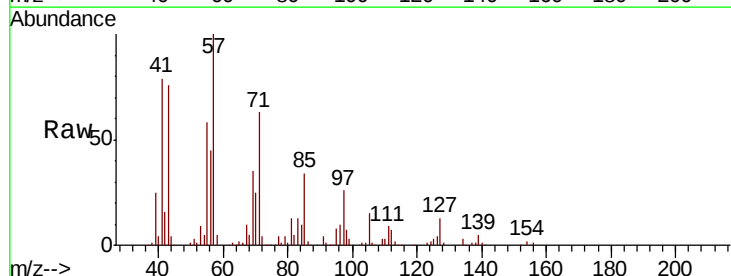
Instrument :
MSVOA_D
ClientSampleId :
RA-081718-SSW-75-048RE

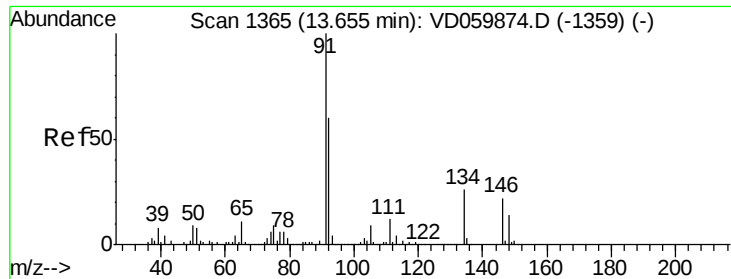
Tot Ion:105 Resp: 11819
Ion Ratio Lower Upper
105 100
120 41.2 21.8 65.3



#85
sec-Butylbenzene
Concen: 3.79 ug/l
RT: 13.22 min Scan# 1321
Delta R.T. 0.00 min
Lab File: VD059887.D
Acq: 23 Aug 2018 14:42

Tgt Ion:105 Resp: 49041
Ion Ratio Lower Upper
105 100
134 17.2 8.2 24.4





#89

n-Butylbenzene

Concen: 1.22 ug/l

RT: 13.66 min Scan# 1365

Delta R.T. 0.00 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-SSW-75-048RE

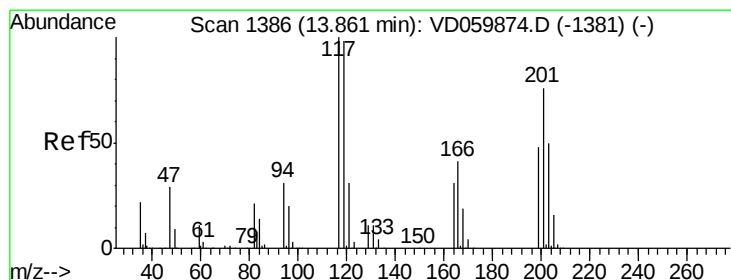
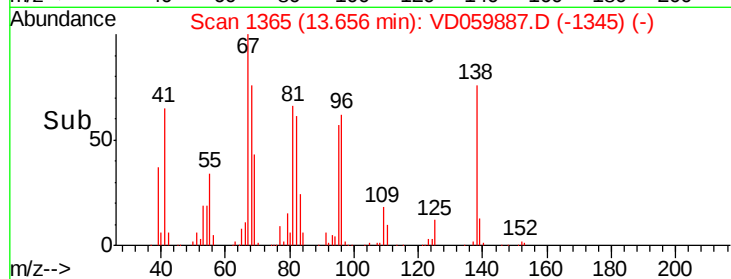
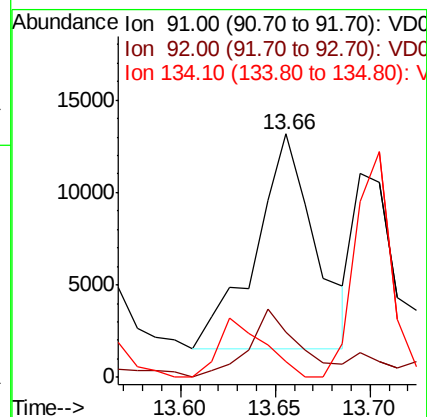
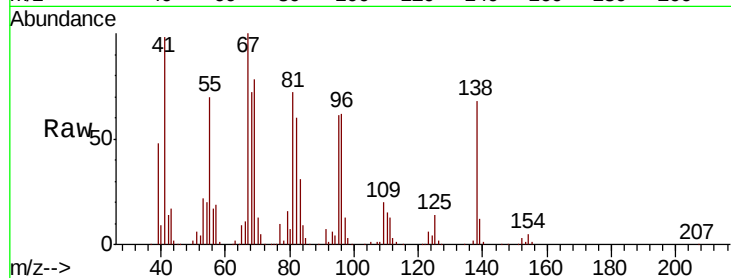
Tot Ion: 91 Resp: 25296

Ion Ratio Lower Upper

91 100

92 18.4 30.0 90.1#

134 6.3 12.8 38.4#



#90

Hexachloroethane

Concen: 7.78 ug/l

RT: 13.94 min Scan# 1394

Delta R.T. 0.08 min

Lab File: VD059887.D

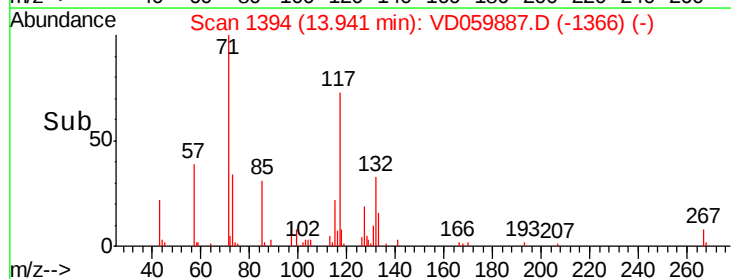
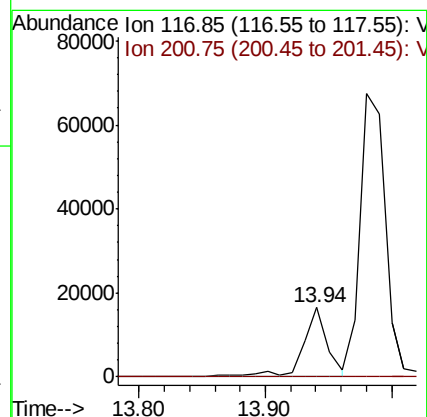
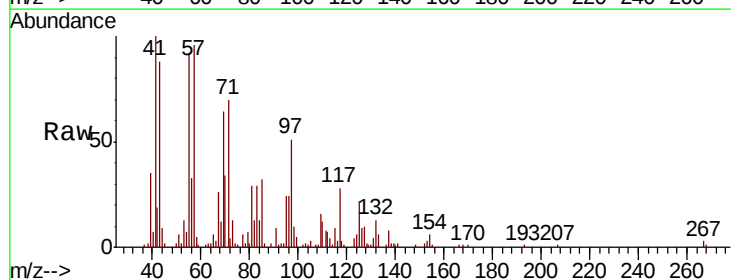
Acq: 23 Aug 2018 14:42

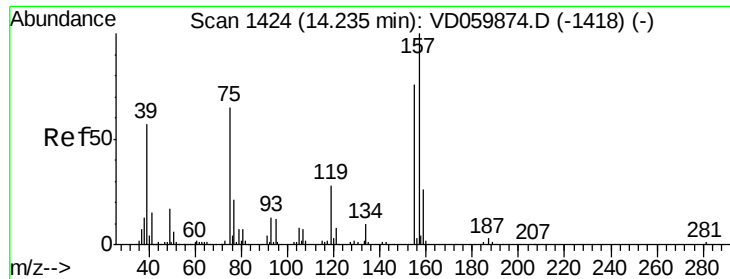
Tgt Ion: 117 Resp: 21964

Ion Ratio Lower Upper

117 100

201 0.0 38.1 114.5#





#92

1,2-Dibromo-3-Chloropropane

Concen: 3.35 ug/l

RT: 14.19 min Scan# 1419

Delta R.T. -0.05 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-SSW-75-048RE

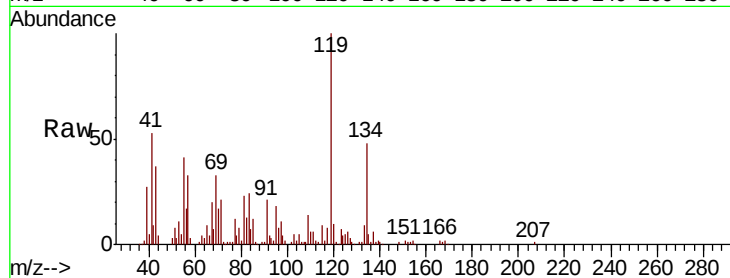
Tot Ion: 75 Resp: 1444

Ion Ratio Lower Upper

75 100

155 57.0 58.2 174.6#

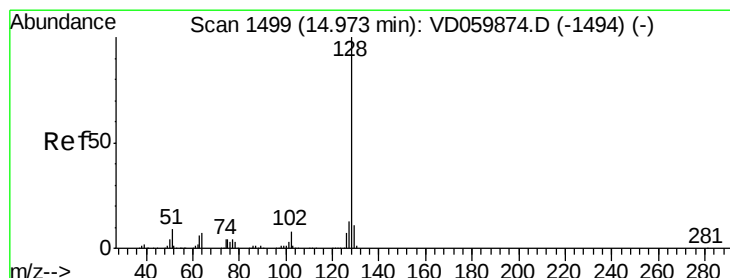
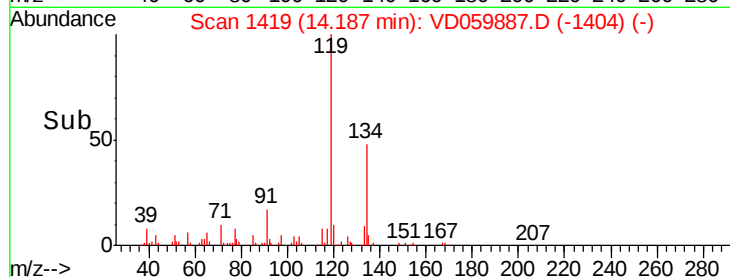
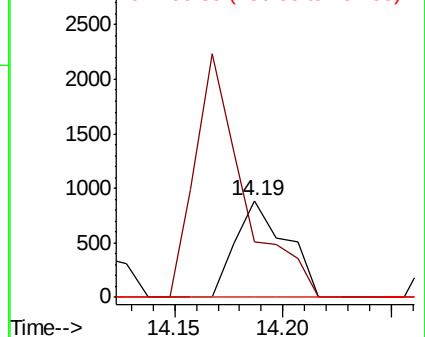
157 0.0 76.8 230.4#



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



#95

Naphthalene

Concen: 1.52 ug/l

RT: 14.96 min Scan# 1498

Delta R.T. -0.01 min

Lab File: VD059887.D

Acq: 23 Aug 2018 14:42

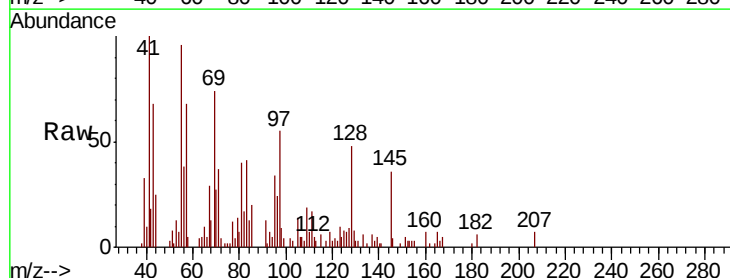
Tgt Ion: 128 Resp: 10168

Ion Ratio Lower Upper

128 100

127 18.8 10.0 15.0#

129 17.7 8.6 13.0#



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

