

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082318\
 Data File : VD059896.D
 Acq On : 23 Aug 2018 18:58
 Operator : JC/SY
 Sample : J4559--09RE
 Misc : 5.01µl/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

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

Quant Time: Aug 24 05:28:28 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	848917	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.43	114	1260912	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.27	117	860226	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.37	152	296724	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.77	65	447914	62.60	ug/l	-0.03
Spiked Amount			Recovery	=	125.20%	
35) Dibromofluoromethane	6.30	113	521831	52.79	ug/l	-0.03
Spiked Amount			Recovery	=	105.58%	
50) Toluene-d8	9.44	98	1253789	45.70	ug/l	-0.02
Spiked Amount			Recovery	=	91.40%	
62) 4-Bromofluorobenzene	12.43	95	403905	36.25	ug/l	0.00
Spiked Amount			Recovery	=	72.50%	

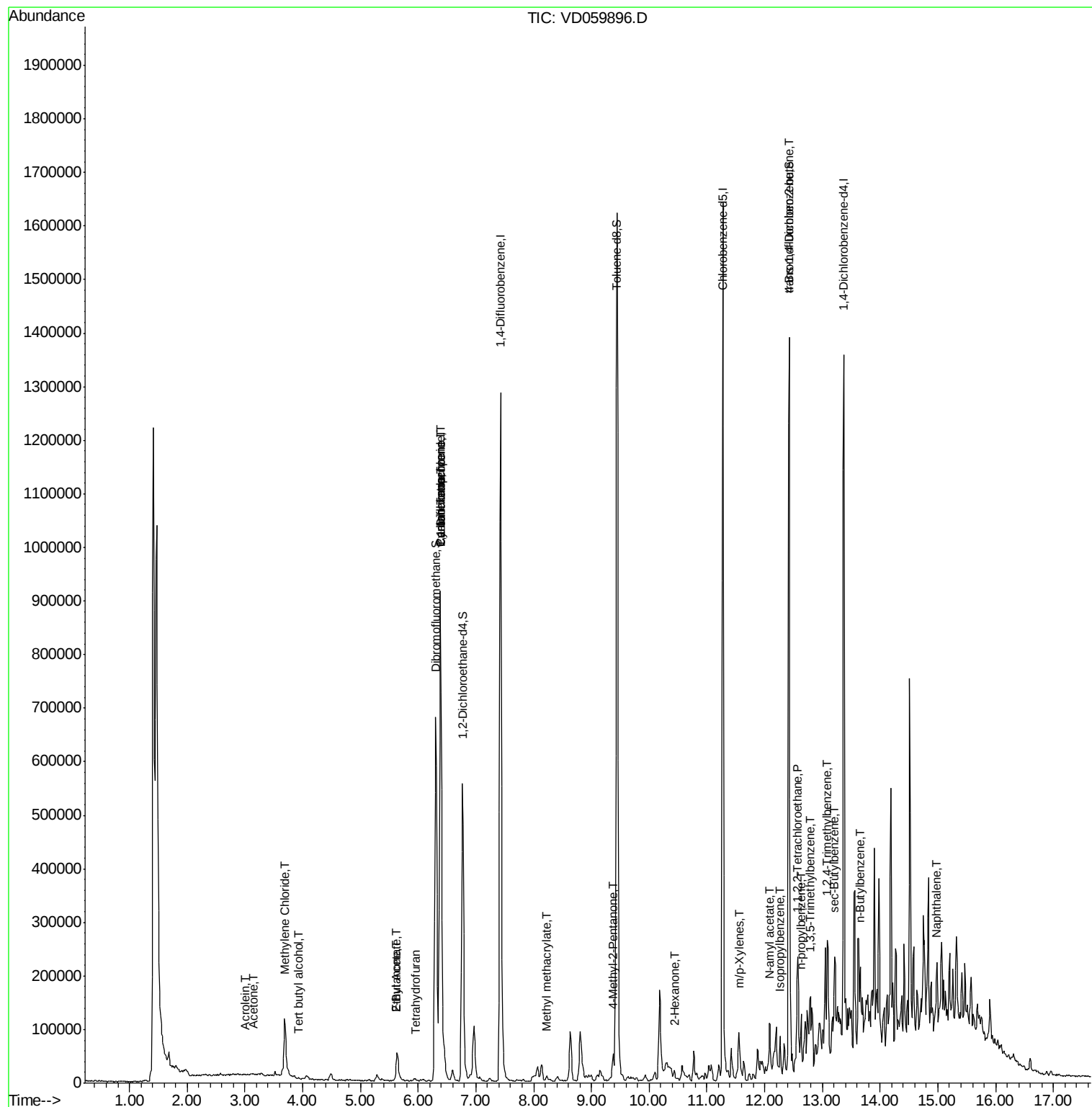
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.94	59	1217	2.23	ug/l #	75
13) Acrolein	3.00	56	1922	8.12	ug/l #	22
16) Acetone	3.14	43	4123	3.16	ug/l #	87
20) Methylene Chloride	3.69	84	55411	2.86	ug/l	98
25) 2-Butanone	5.62	43	10841	2.81	ug/l #	63
29) Tetrahydrofuran	5.94	42	3819	2.08	ug/l #	65
31) Cyclohexane	6.38	56	20047	1.47	ug/l #	1
36) 1,1-Dichloropropene	6.38	75	58572	5.12	ug/l #	46
37) Ethyl Acetate	5.62	43	10841	1.22	ug/l #	78
38) Carbon Tetrachloride	6.38	117	68874	5.97	ug/l #	16
48) Methyl methacrylate	8.22	41	7211	1.07	ug/l #	52
51) 4-Methyl-2-Pentanone	9.37	43	17056	1.98	ug/l #	80
59) 2-Hexanone	10.44	43	11592	1.82	ug/l #	30
68) m/p-Xylenes	11.56	106	23983	2.29	ug/l	92
73) Isopropylbenzene	12.27	105	22962	1.21	ug/l	91
74) N-amyl acetate	12.08	43	22378	2.70	ug/l #	63
75) 1,1,2,2-Tetrachloroethane	12.57	83	13774	3.14	ug/l #	65
78) n-propylbenzene	12.63	91	64795	2.70	ug/l	97
80) 1,3,5-Trimethylbenzene	12.79	105	47336	3.14	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.42	75	166504	116.07	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.08	105	76650	4.88	ug/l	98
85) sec-Butylbenzene	13.21	105	38316	1.90	ug/l	89
89) n-Butylbenzene	13.65	91	38487	1.17	ug/l	96
95) Naphthalene	14.96	128	11691	1.12	ug/l #	79

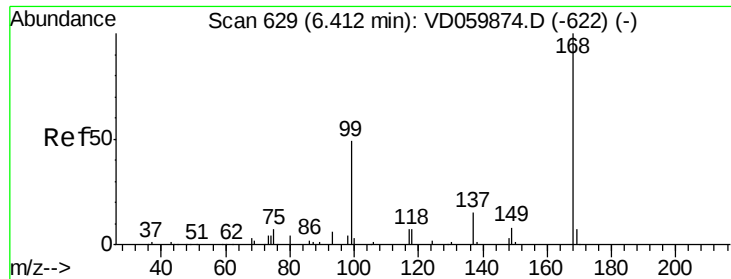
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD082318\
Data File : VD059896.D
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Quant Time: Aug 24 05:28:28 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D082218S.M
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: VD059896.D

Acq: 23 Aug 2018 18:58

Instrument :

MSVOA_D

ClientSampleId :

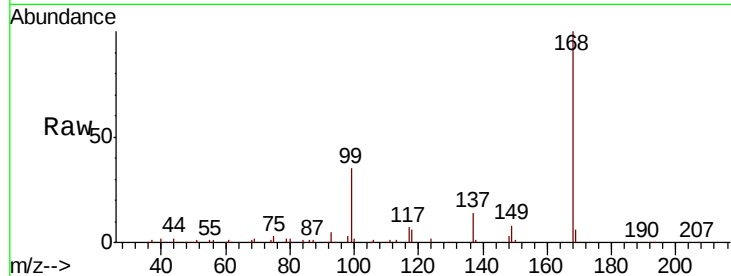
RA-081718-WSW-20-053RE

Tot Ion:168 Resp: 848917

Ion Ratio Lower Upper

168 100

99 34.6 42.2 63.2#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.39

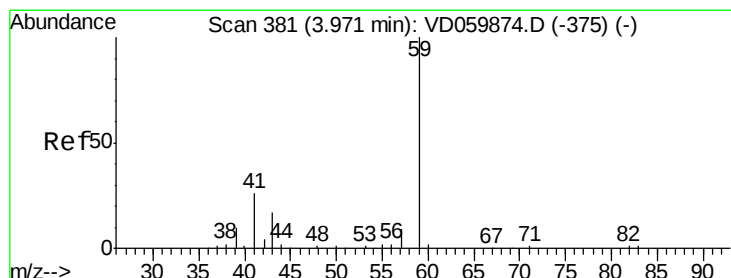
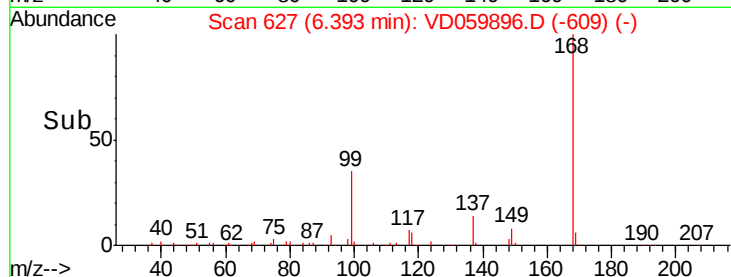
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.23 ug/l

RT: 3.94 min Scan# 378

Delta R.T. -0.03 min

Lab File: VD059896.D

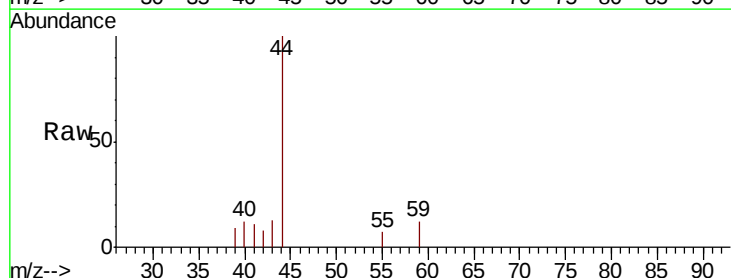
Acq: 23 Aug 2018 18:58

Tgt Ion: 59 Resp: 1217

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

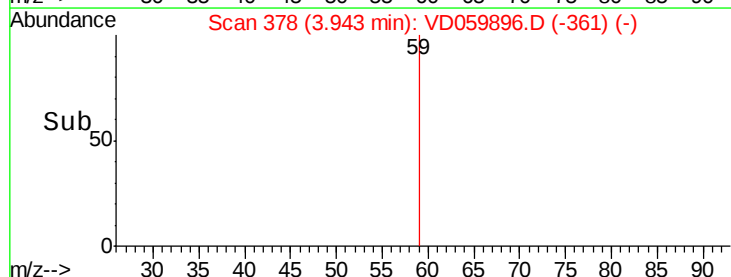
3.94

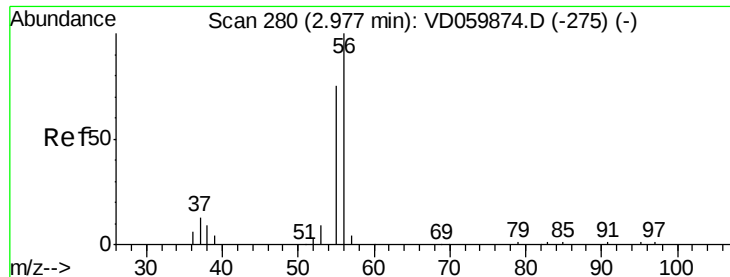
1000

500

0

Time-->





#13

Acrolein

Concen: 8.12 ug/l

RT: 3.00 min Scan# 282

Delta R.T. 0.02 min

Lab File: VD059896.D

Acq: 23 Aug 2018 18:58

Instrument :

MSVOA_D

ClientSampleId :

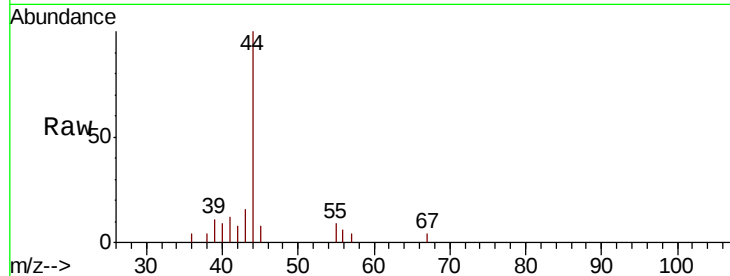
RA-081718-WSW-20-053RE

Tot Ion: 56 Resp: 1922

Ion Ratio Lower Upper

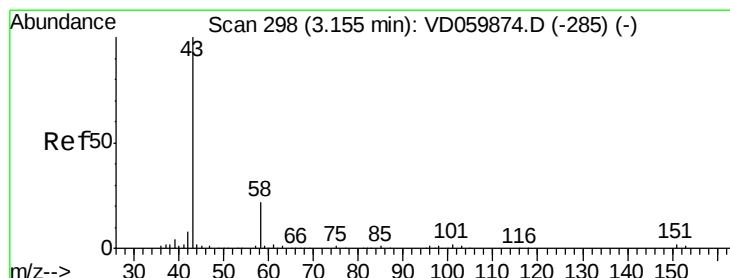
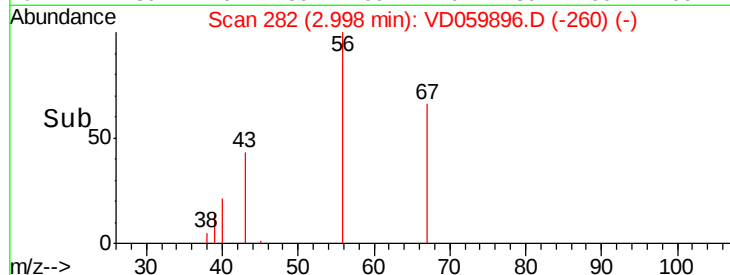
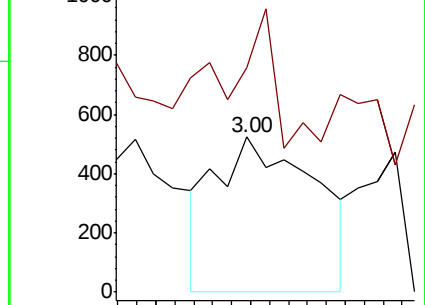
56 100

55 144.7 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: 3.16 ug/l

RT: 3.14 min Scan# 296

Delta R.T. -0.02 min

Lab File: VD059896.D

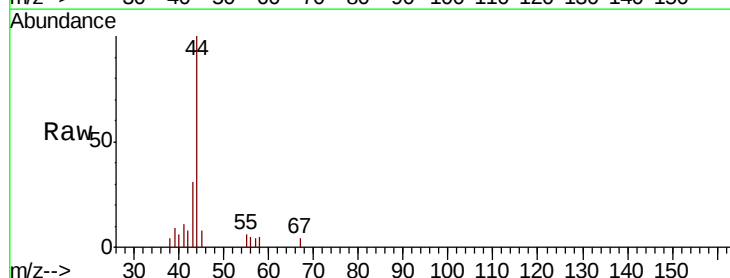
Acq: 23 Aug 2018 18:58

Tgt Ion: 43 Resp: 4123

Ion Ratio Lower Upper

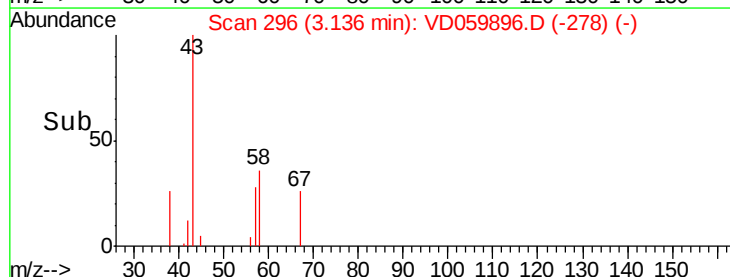
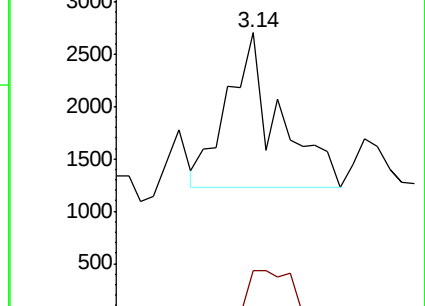
43 100

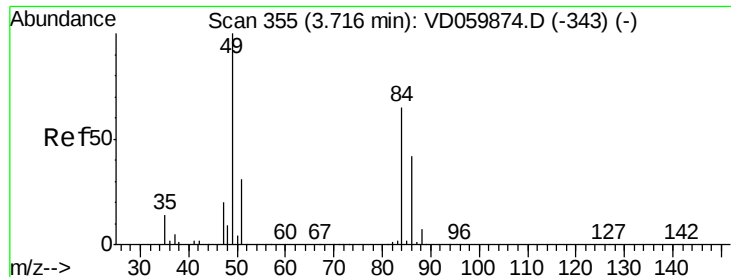
58 16.0 17.6 26.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

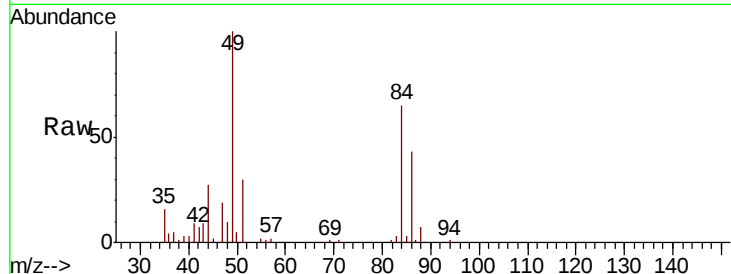




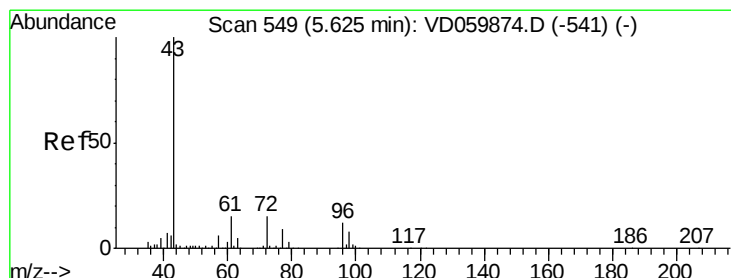
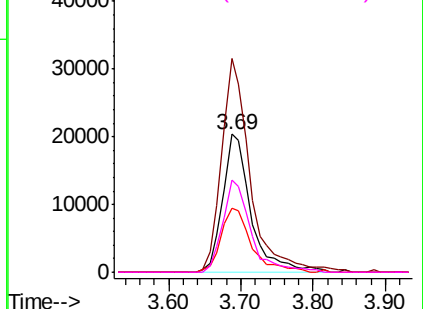
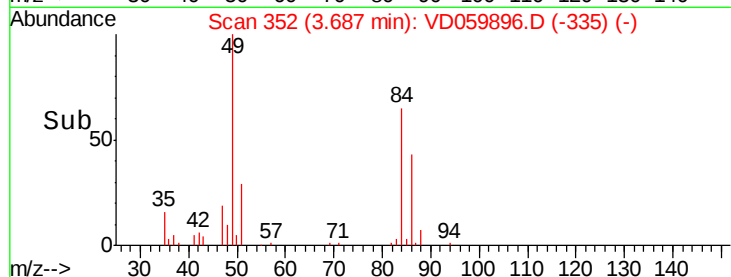
#20
Methvlene Chloride
Concen: 2.86 ug/l
RT: 3.69 min Scan# 352
Delta R.T. -0.03 min
Lab File: VD059896.D
Acq: 23 Aug 2018 18:58

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

Tot Ion: 84 Resp: 55411
Ion Ratio Lower Upper
84 100
49 154.7 122.6 183.8
51 46.0 38.4 57.6
86 66.5 51.5 77.3

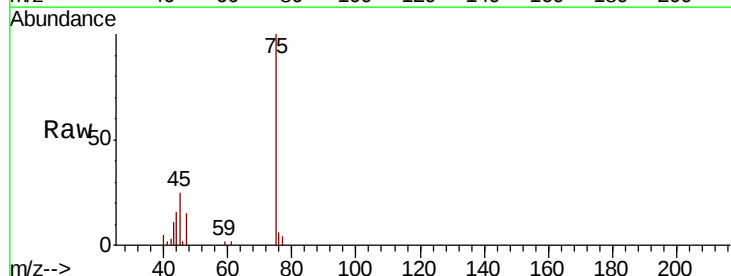


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

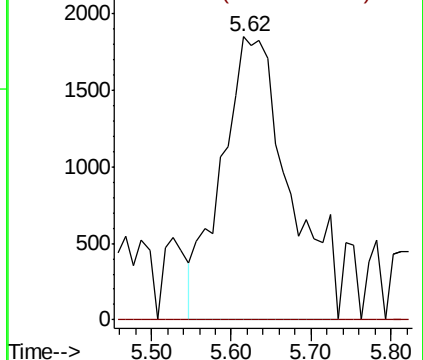
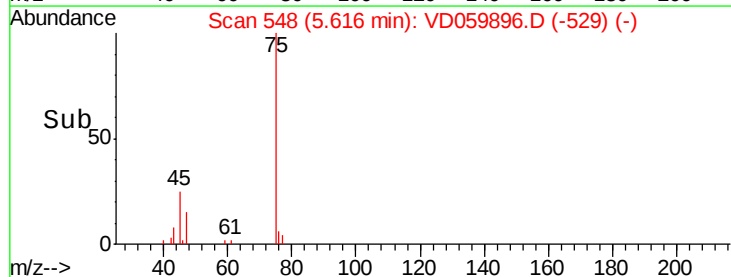


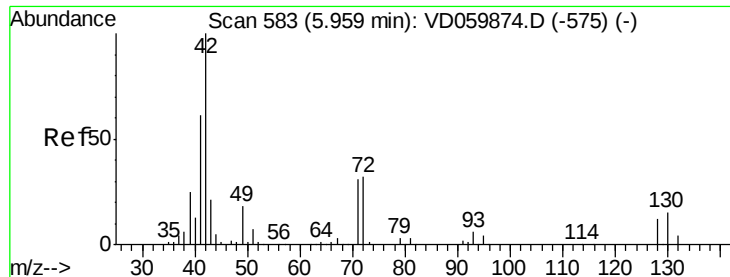
#25
2-Butanone
Concen: 2.81 ug/l
RT: 5.62 min Scan# 548
Delta R.T. -0.01 min
Lab File: VD059896.D
Acq: 23 Aug 2018 18:58

Tgt Ion: 43 Resp: 10841
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: 2.08 ug/l

RT: 5.94 min Scan# 581

Delta R.T. -0.02 min

Lab File: VD059896.D

Acq: 23 Aug 2018 18:58

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-053RE

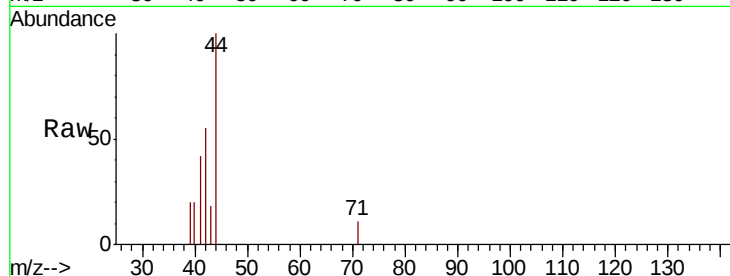
Tot Ion: 42 Resp: 3819

Ion Ratio Lower Upper

42 100

72 5.5 25.7 38.5#

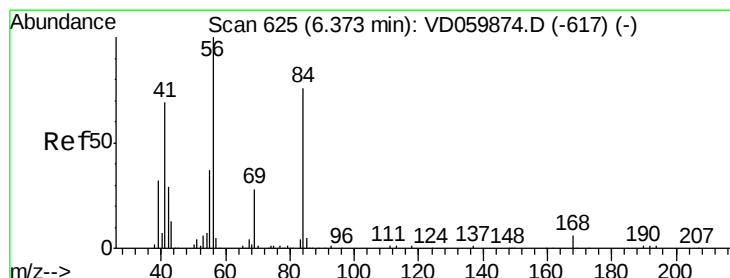
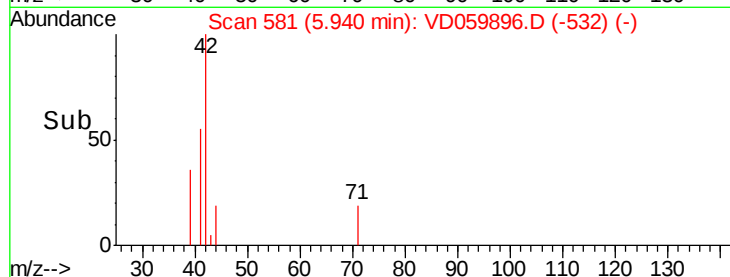
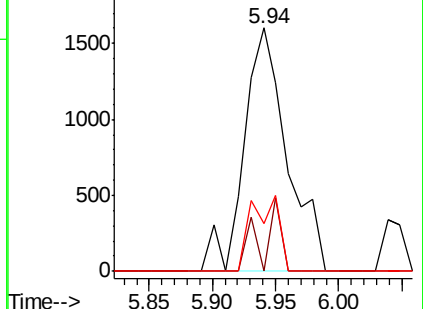
71 19.8 25.3 37.9#



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: 1.47 ug/l

RT: 6.38 min Scan# 626

Delta R.T. 0.01 min

Lab File: VD059896.D

Acq: 23 Aug 2018 18:58

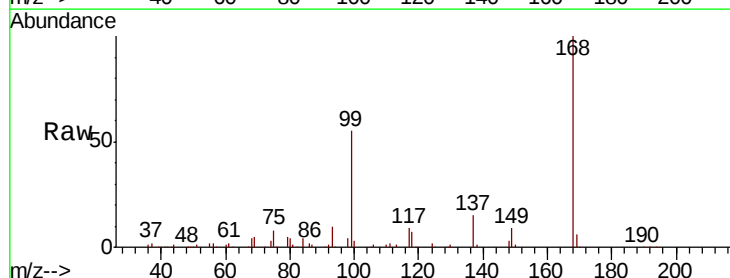
Tgt Ion: 56 Resp: 20047

Ion Ratio Lower Upper

56 100

69 250.5 22.4 33.6#

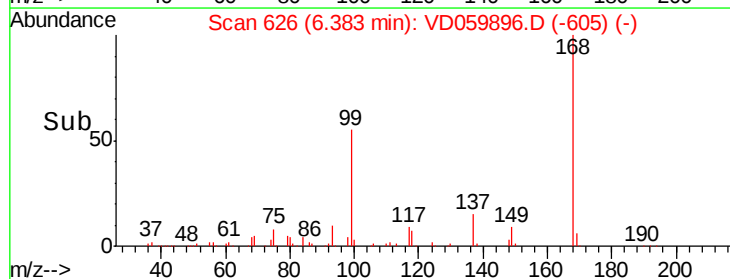
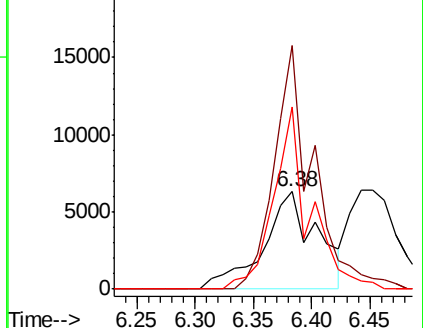
84 186.9 62.1 93.1#

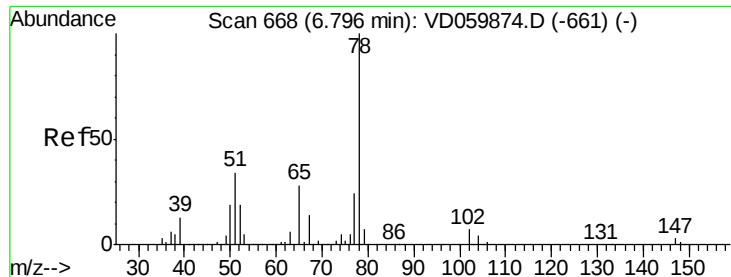


Abundance Ion 55.95 (55.65 to 56.65): VDC

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: 6.77 min Scan# 665

Delta R.T. -0.03 min

Lab File: VD059896.D

Acq: 23 Aug 2018 18:58

Instrument :

MSVOA_D

ClientSampleId :

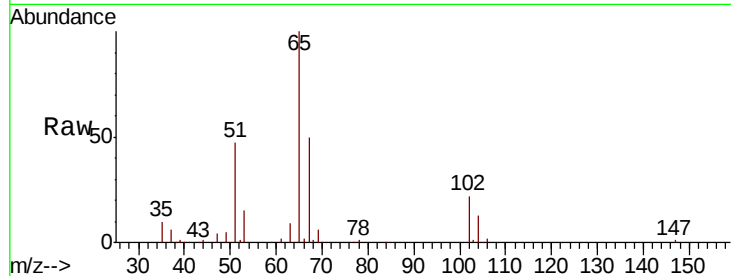
RA-081718-WSW-20-053RE

Tot Ion: 65 Resp: 447914

Ion Ratio Lower Upper

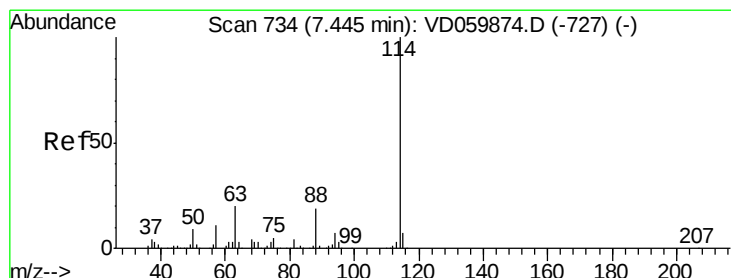
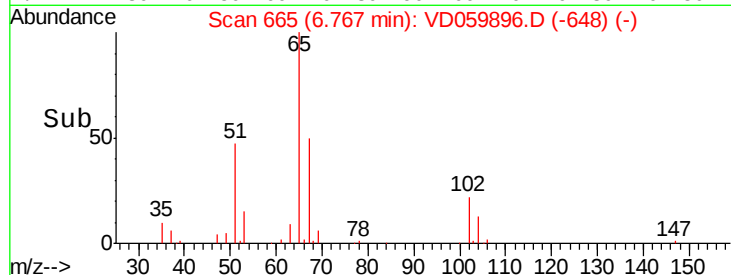
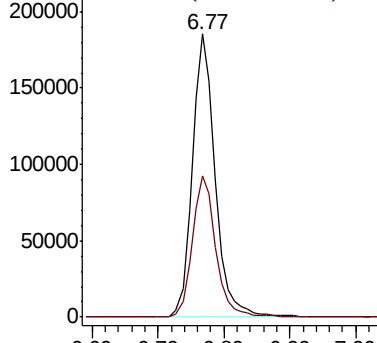
65 100

67 49.8 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: 7.43 min Scan# 732

Delta R.T. -0.02 min

Lab File: VD059896.D

Acq: 23 Aug 2018 18:58

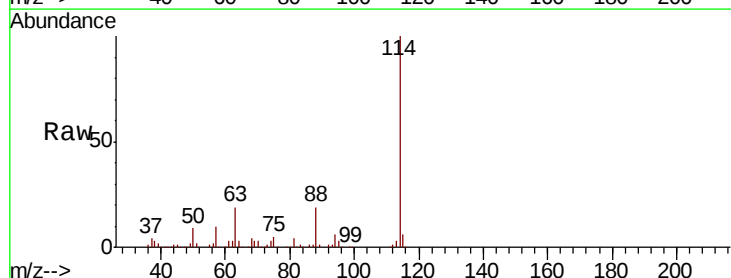
Tgt Ion: 114 Resp: 1260912

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.4

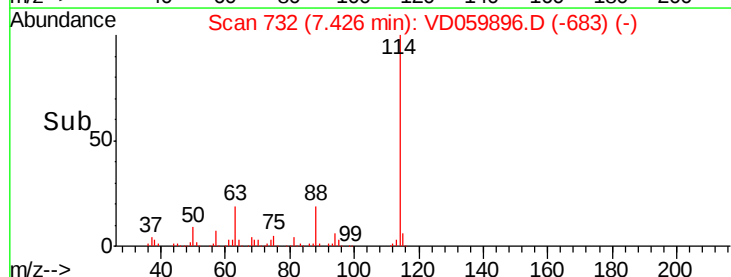
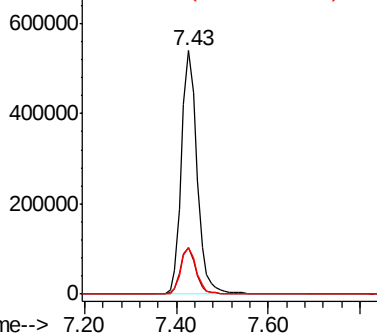
88 19.2 0.0 37.6

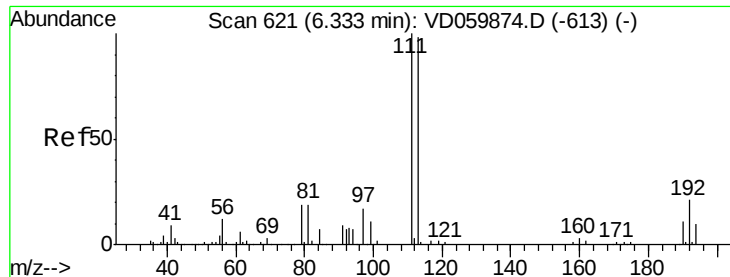


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

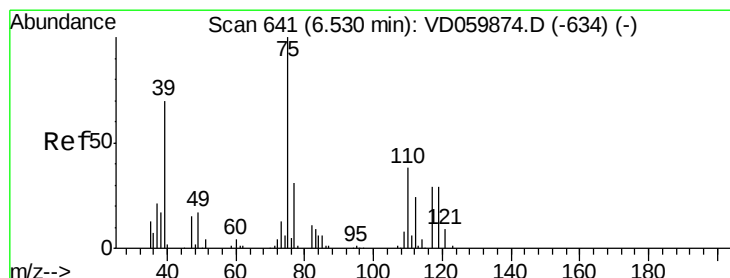
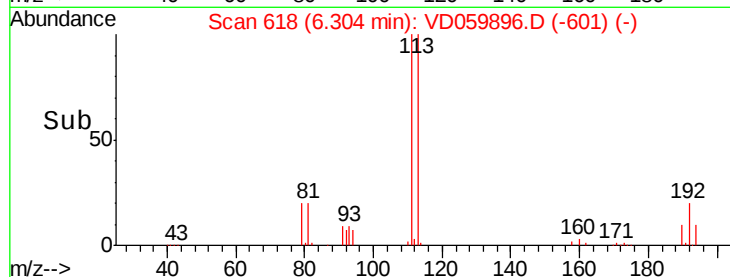
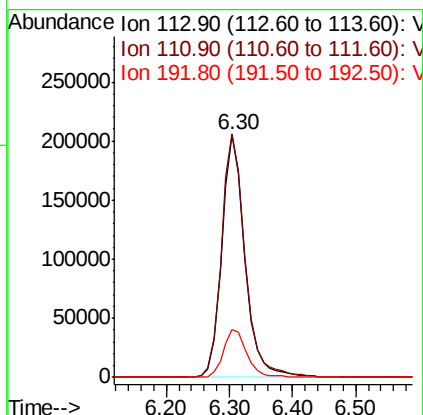
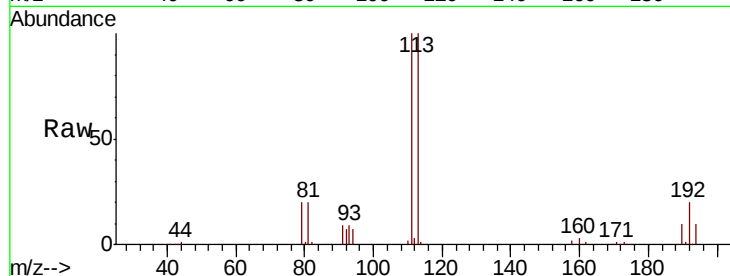




#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 6.30 min Scan# 618
 Delta R.T. -0.03 min
 Lab File: VD059896.D
 Acq: 23 Aug 2018 18:58

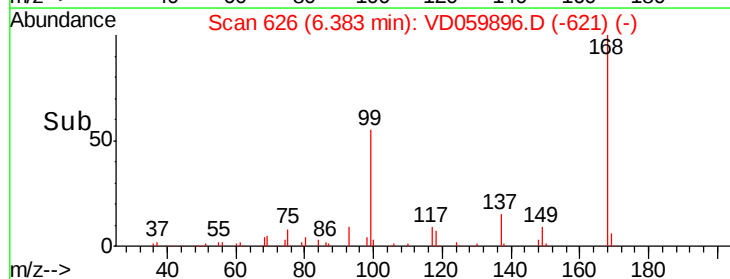
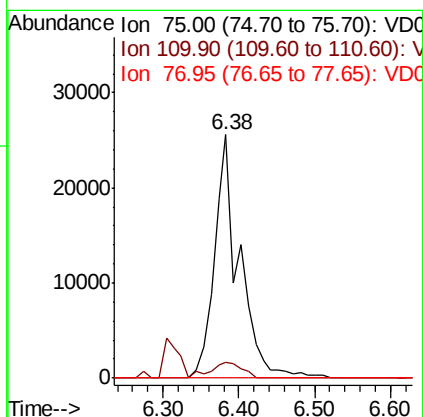
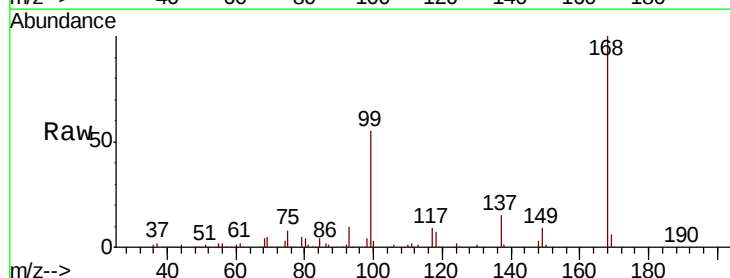
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-053RE

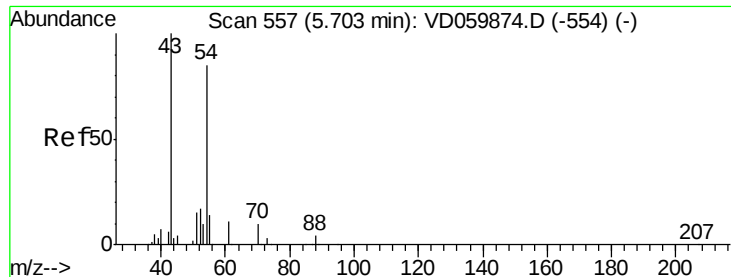
Tot Ion:113 Resp: 521831
 Ion Ratio Lower Upper
 113 100
 111 100.3 81.4 122.2
 192 19.8 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.12 ug/l
 RT: 6.38 min Scan# 626
 Delta R.T. -0.15 min
 Lab File: VD059896.D
 Acq: 23 Aug 2018 18:58

Tgt Ion: 75 Resp: 58572
 Ion Ratio Lower Upper
 75 100
 110 6.5 18.6 56.0#
 77 0.0 25.1 37.7#

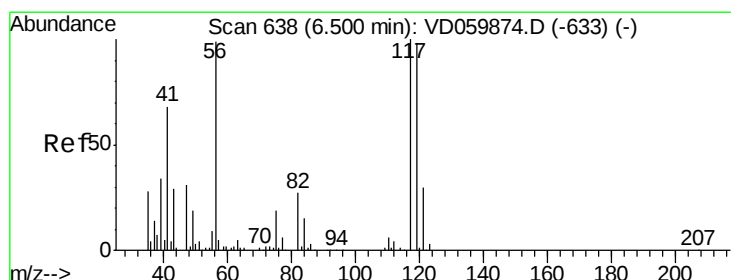
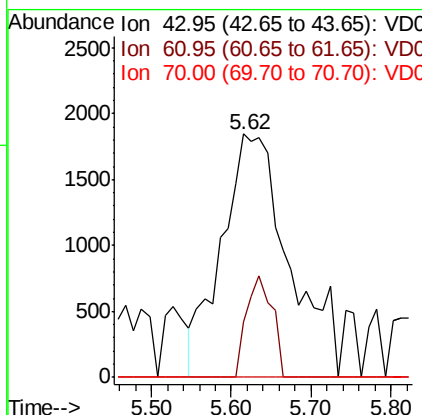
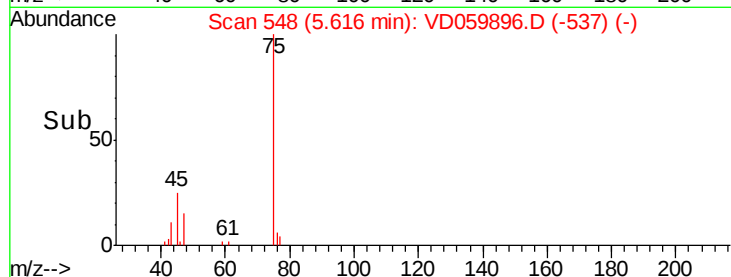
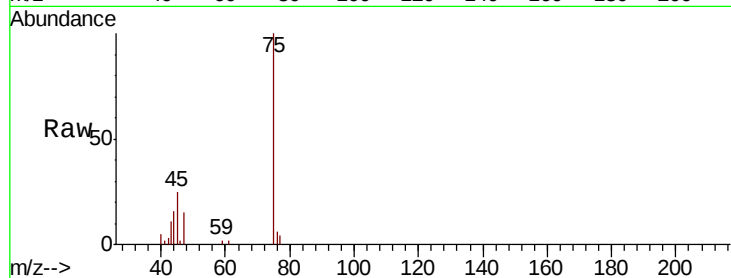




#37
Ethyl Acetate
Concen: 1.22 ug/l
RT: 5.62 min Scan# 548
Delta R.T. -0.09 min
Lab File: VD059896.D
Acq: 23 Aug 2018 18:58

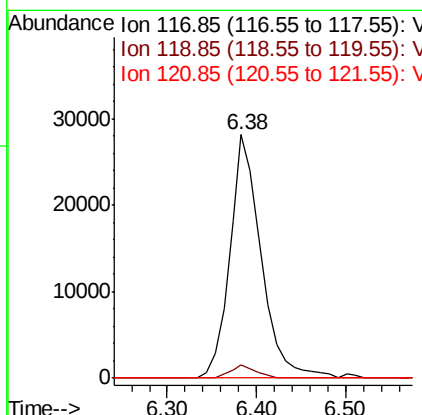
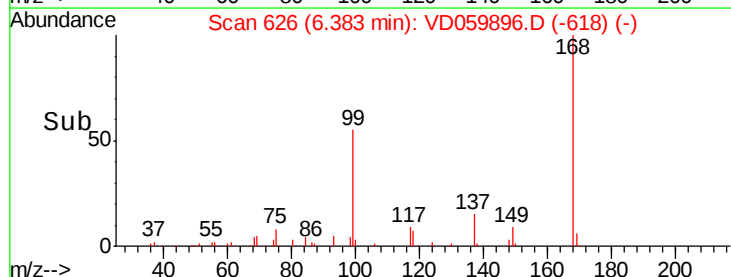
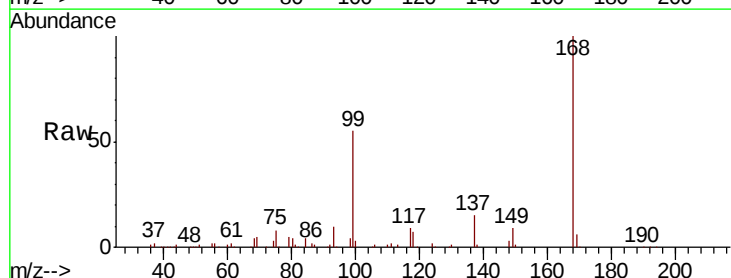
Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053RE

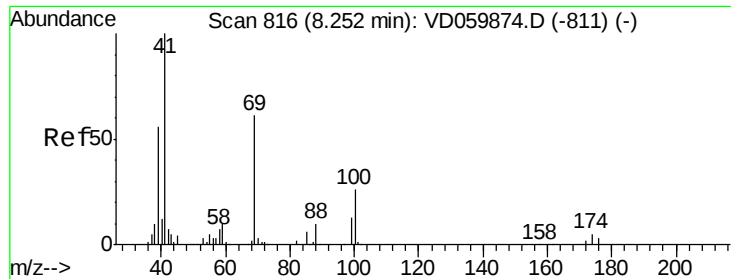
Tot Ion: 43 Resp: 10841
Ion Ratio Lower Upper
43 100
61 22.7 11.0 16.6#
70 0.0 5.7 8.5#



#38
Carbon Tetrachloride
Concen: 5.97 ug/l
RT: 6.38 min Scan# 626
Delta R.T. -0.12 min
Lab File: VD059896.D
Acq: 23 Aug 2018 18:58

Tgt Ion: 117 Resp: 68874
Ion Ratio Lower Upper
117 100
119 5.4 77.2 115.8#
121 0.0 24.0 36.0#

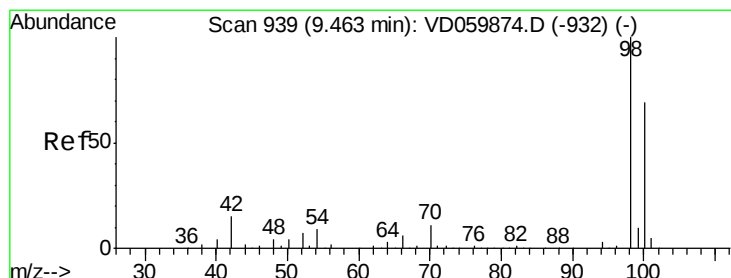
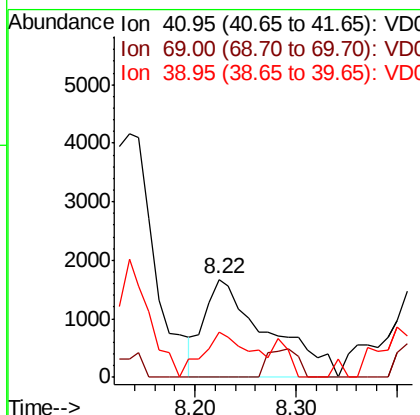
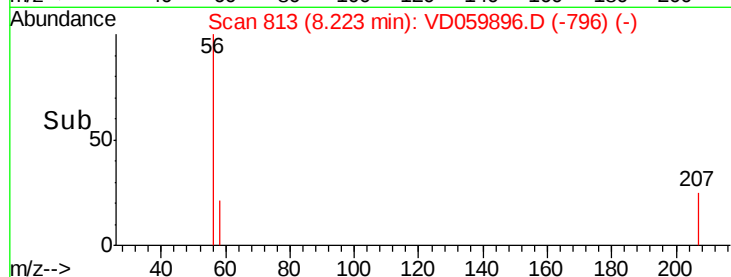
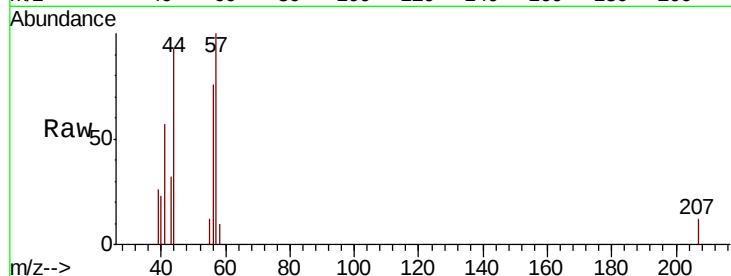




#48
Methvl methacrylate
Concen: 1.07 ug/l
RT: 8.22 min Scan# 813
Delta R.T. -0.03 min
Lab File: VD059896.D
Acq: 23 Aug 2018 18:58

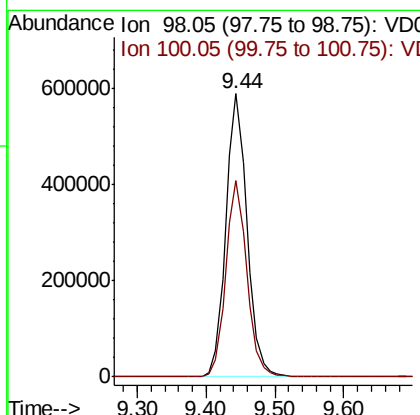
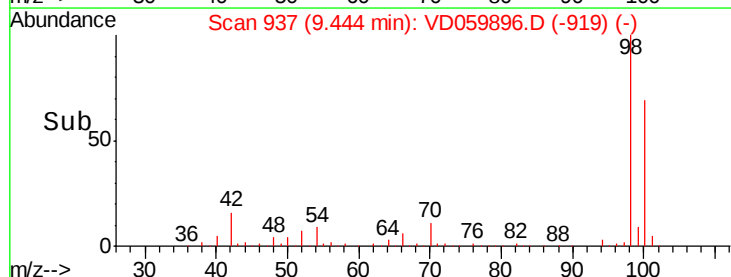
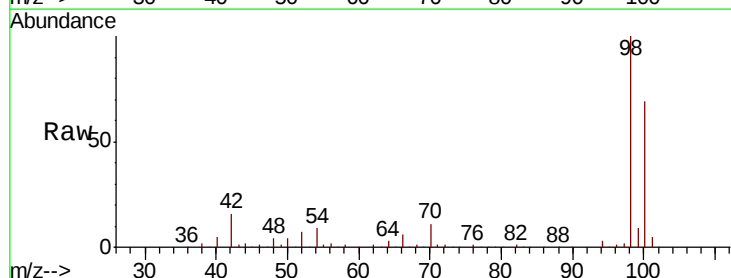
Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053RE

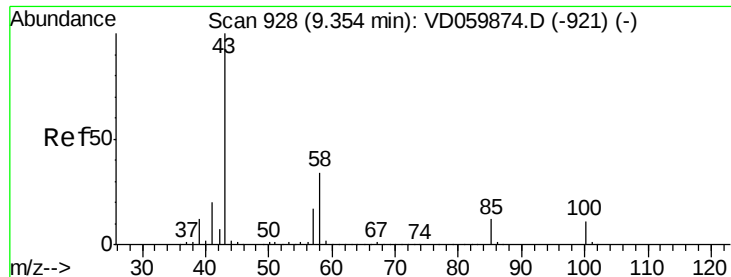
Tot Ion: 41 Resp: 7211
Ion Ratio Lower Upper
41 100
69 0.0 48.0 72.0#
39 45.6 45.4 68.0



#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.44 min Scan# 937
Delta R.T. -0.02 min
Lab File: VD059896.D
Acq: 23 Aug 2018 18:58

Tgt Ion: 98 Resp: 1253789
Ion Ratio Lower Upper
98 100
100 69.2 55.8 83.6





#51

4-Methyl-2-Pentanone

Concen: 1.98 ug/l

RT: 9.37 min Scan# 930

Delta R.T. 0.02 min

Lab File: VD059896.D

Acq: 23 Aug 2018 18:58

Instrument :

MSVOA_D

ClientSampleId :

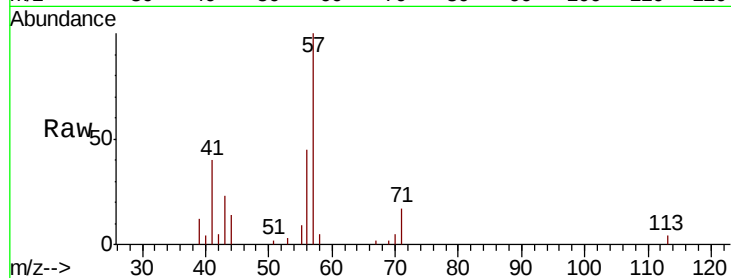
RA-081718-WSW-20-053RE

Tot Ion: 43 Resp: 17056

Ion Ratio Lower Upper

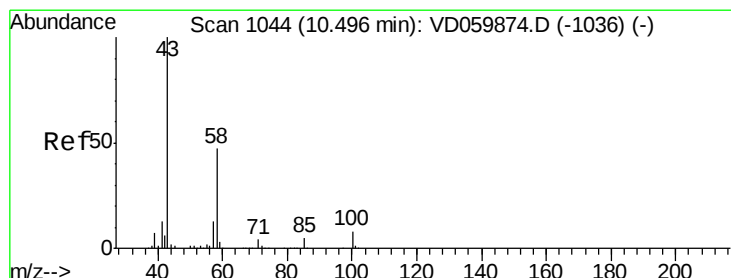
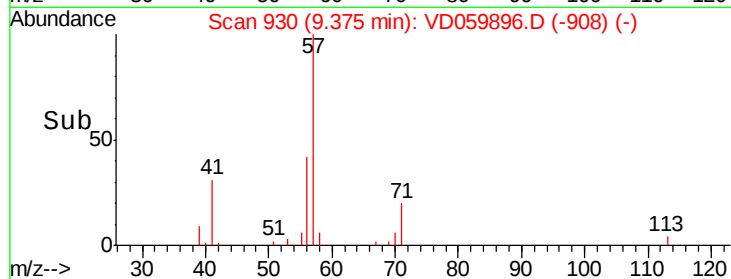
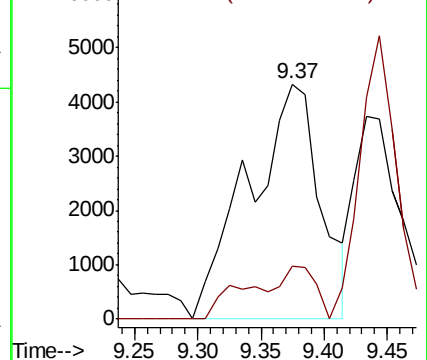
43 100

58 22.3 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: 1.82 ug/l

RT: 10.44 min Scan# 1038

Delta R.T. -0.06 min

Lab File: VD059896.D

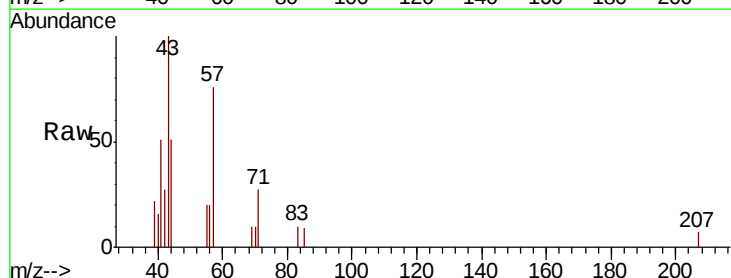
Acq: 23 Aug 2018 18:58

Tgt Ion: 43 Resp: 11592

Ion Ratio Lower Upper

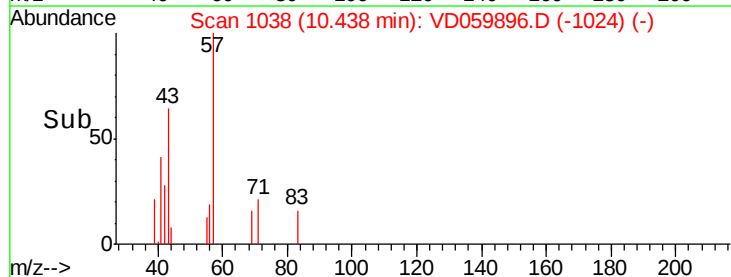
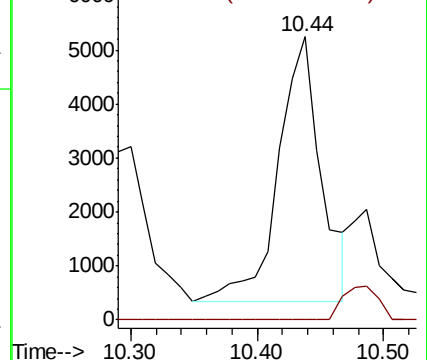
43 100

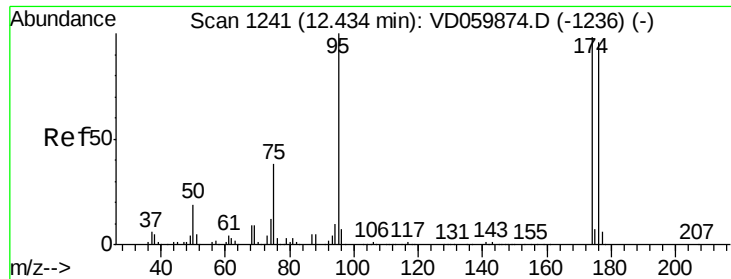
58 0.0 23.3 69.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

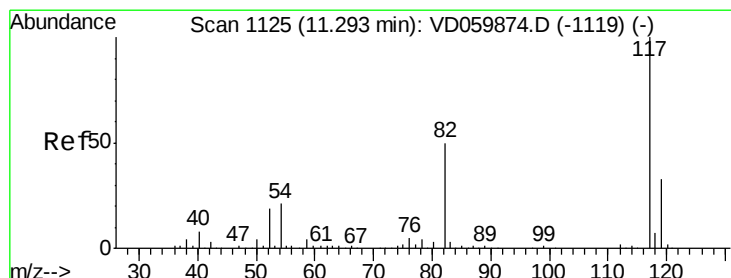
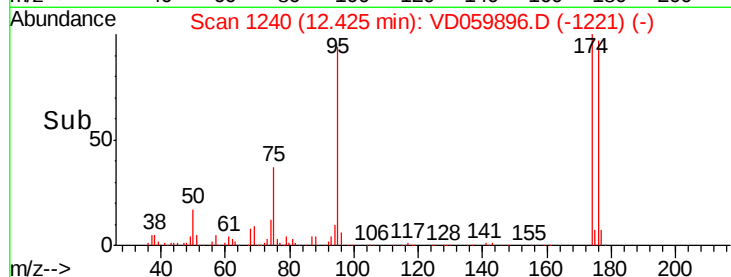
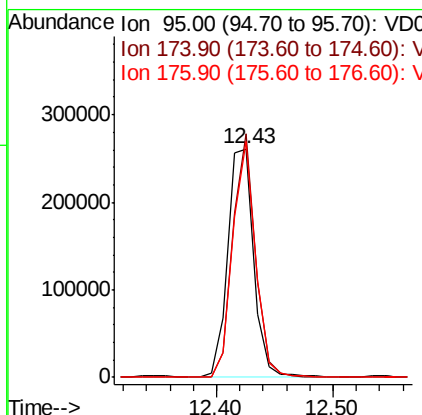
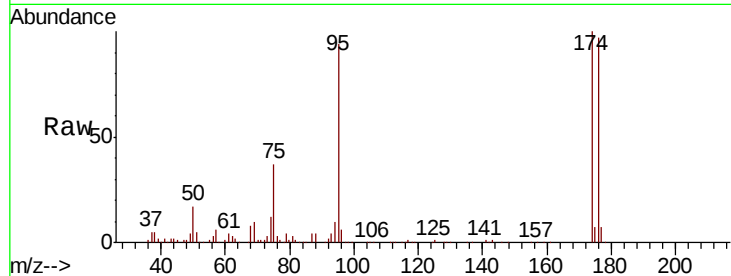




#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.43 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VD059896.D
Acq: 23 Aug 2018 18:58

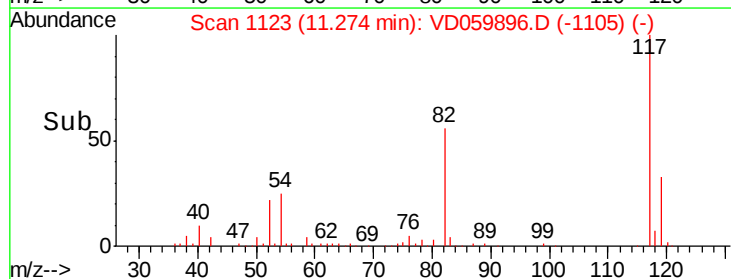
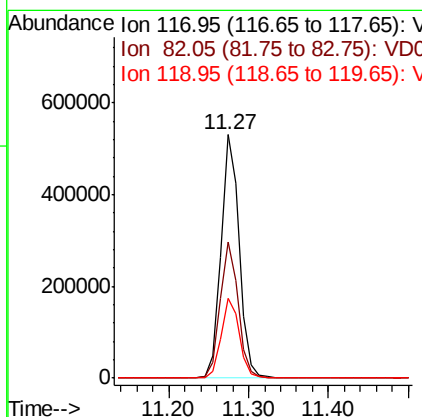
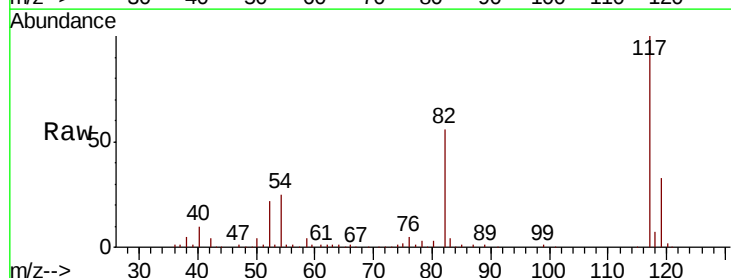
Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053RE

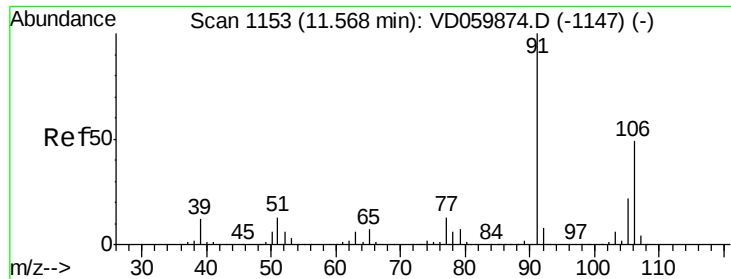
Tot Ion	95	Resp	403905
Ion Ratio	Lower	Upper	
95	100		
174	106.5	0.0	195.6
176	103.2	0.0	191.2



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.27 min Scan# 1123
Delta R.T. -0.02 min
Lab File: VD059896.D
Acq: 23 Aug 2018 18:58

Tgt Ion	117	Resp	860226
Ion Ratio	Lower	Upper	
117	100		
82	55.7	40.1	60.1
119	32.6	26.7	40.1

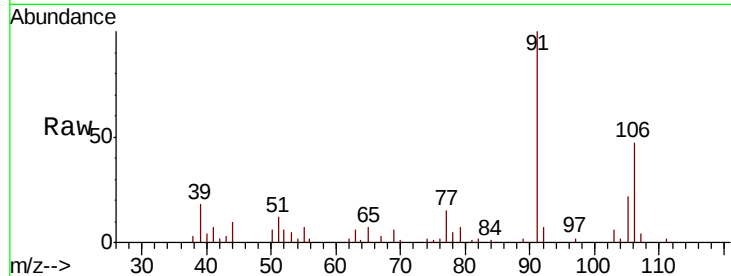




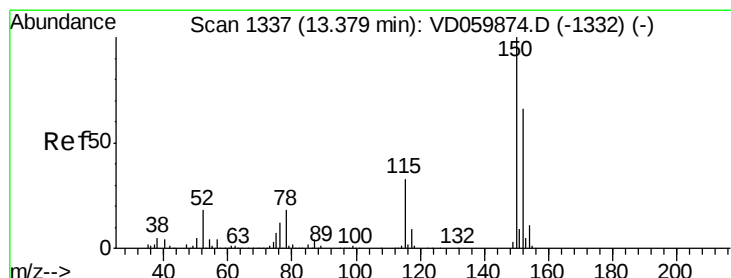
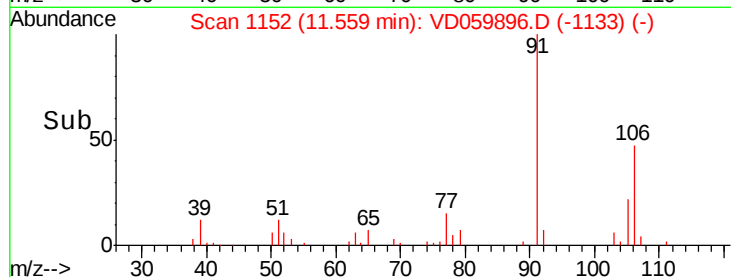
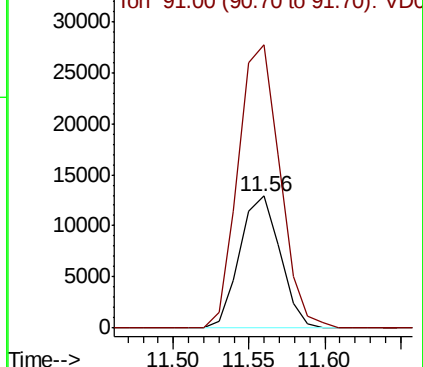
#68
m/p-Xvlenes
Concen: 2.29 ug/l
RT: 11.56 min Scan# 1152
Delta R.T. -0.01 min
Lab File: VD059896.D
Acq: 23 Aug 2018 18:58

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

Tot Ion:106 Resp: 23983
Ion Ratio Lower Upper
106 100
91 214.3 162.0 243.0

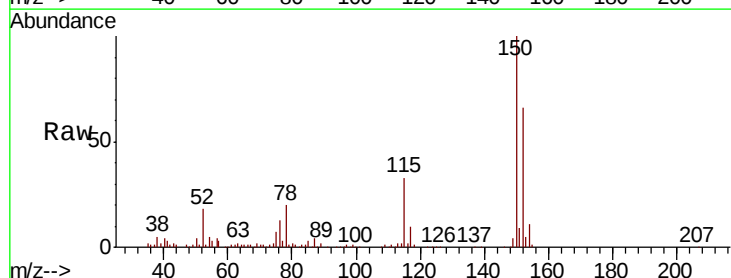


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

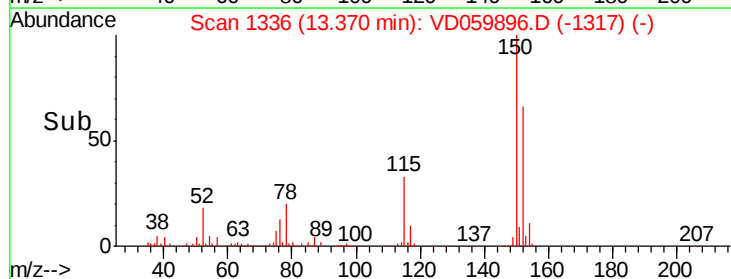
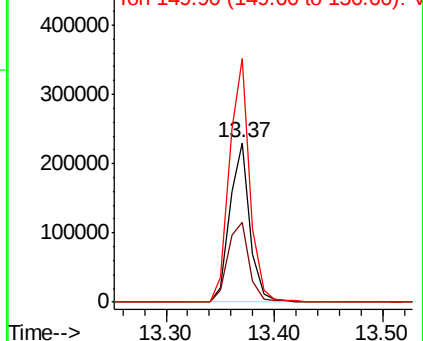


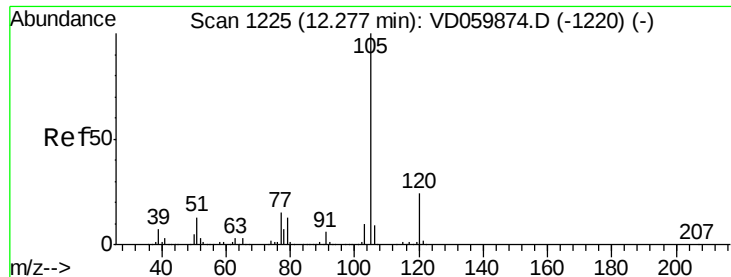
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.37 min Scan# 1336
Delta R.T. -0.01 min
Lab File: VD059896.D
Acq: 23 Aug 2018 18:58

Tgt Ion:152 Resp: 296724
Ion Ratio Lower Upper
152 100
115 49.9 25.7 77.0
150 152.5 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

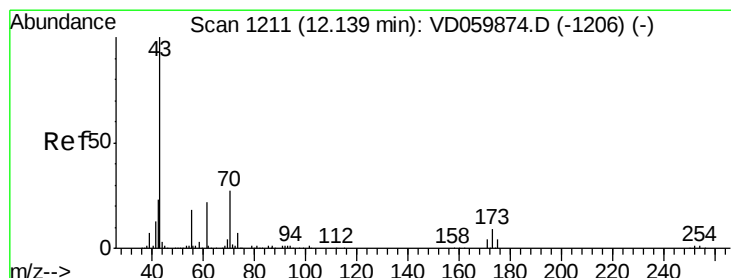
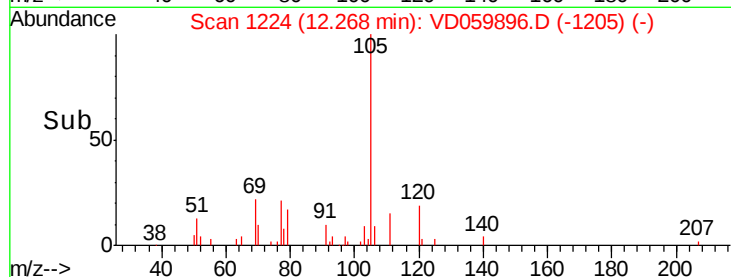
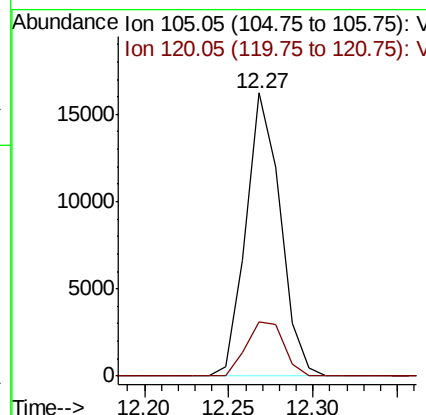
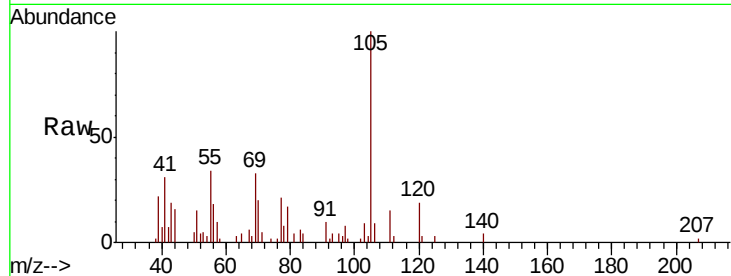




#73
Isopropylbenzene
Concen: 1.21 ug/l
RT: 12.27 min Scan# 1224
Delta R.T. -0.01 min
Lab File: VD059896.D
Acq: 23 Aug 2018 18:58

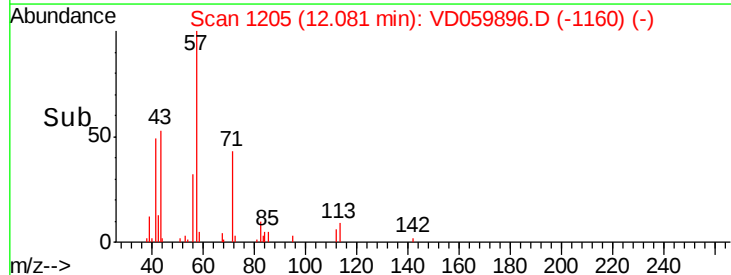
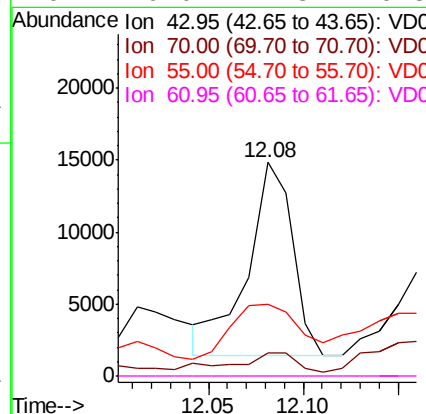
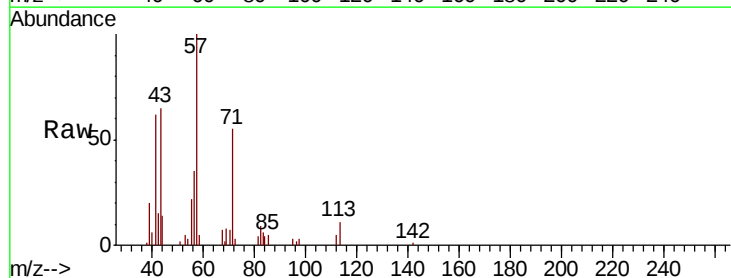
Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-053RE

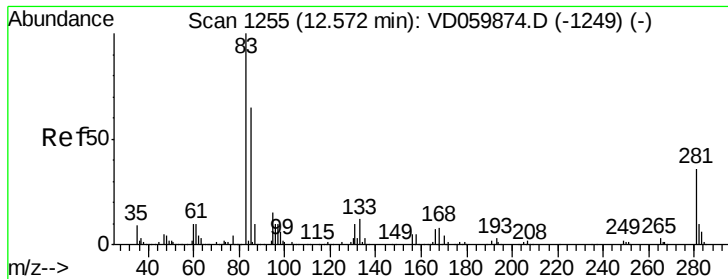
Tot Ion:105 Resp: 22962
Ion Ratio Lower Upper
105 100
120 19.1 11.8 35.4



#74
N-ethyl acetate
Concen: 2.70 ug/l
RT: 12.08 min Scan# 1205
Delta R.T. -0.06 min
Lab File: VD059896.D
Acq: 23 Aug 2018 18:58

Tgt Ion: 43 Resp: 22378
Ion Ratio Lower Upper
43 100
70 11.0 21.4 32.2#
55 33.6 14.1 21.1#
61 0.0 17.8 26.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 3.14 ug/l

RT: 12.57 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VD059896.D

Acq: 23 Aug 2018 18:58

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-053RE

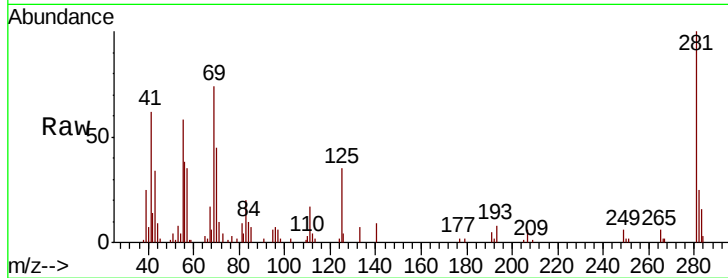
Tot Ion: 83 Resp: 13774

Ion Ratio Lower Upper

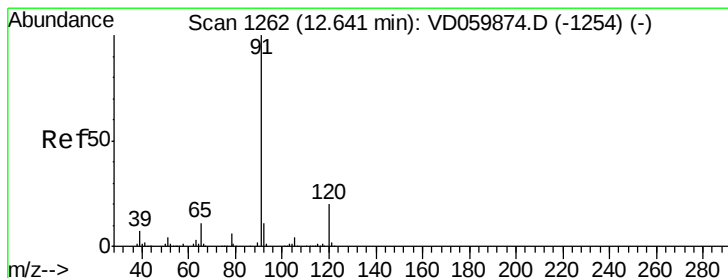
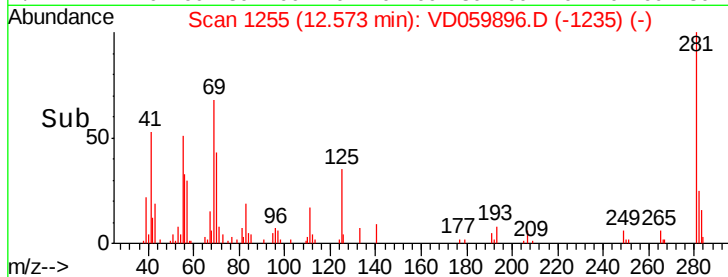
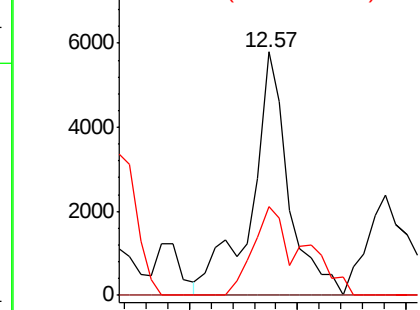
83 100

131 0.0 4.8 14.4#

85 36.7 32.6 97.8



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#78

n-propylbenzene

Concen: 2.70 ug/l

RT: 12.63 min Scan# 1261

Delta R.T. -0.01 min

Lab File: VD059896.D

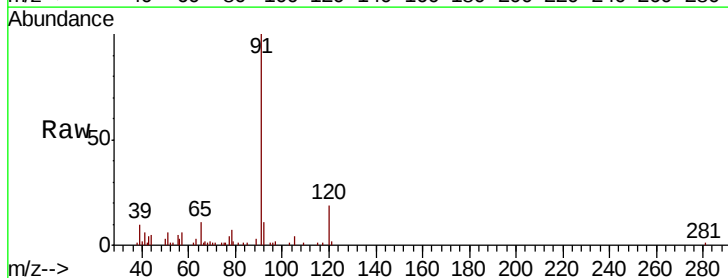
Acq: 23 Aug 2018 18:58

Tgt Ion: 91 Resp: 64795

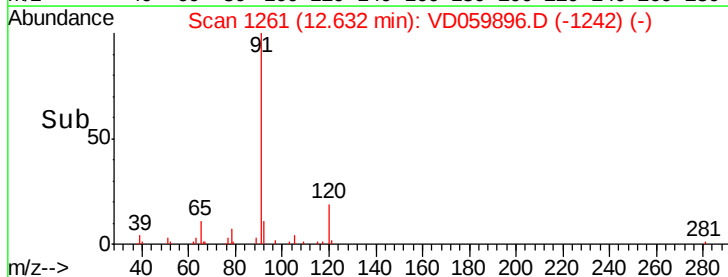
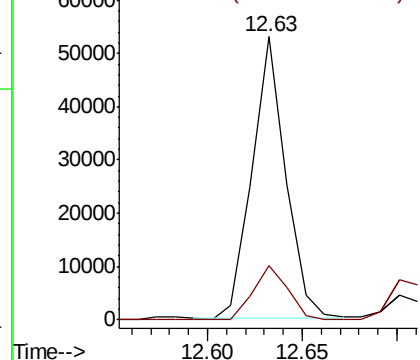
Ion Ratio Lower Upper

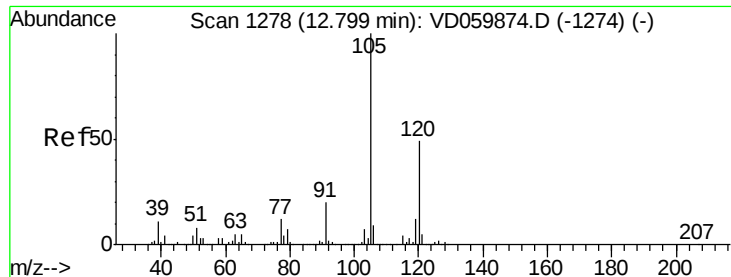
91 100

120 19.0 10.1 30.3



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 120.05 (119.75 to 120.75): VDC

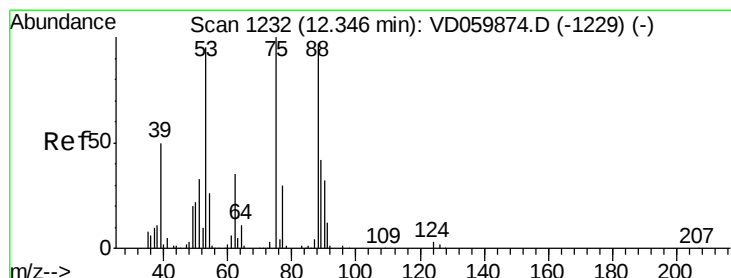
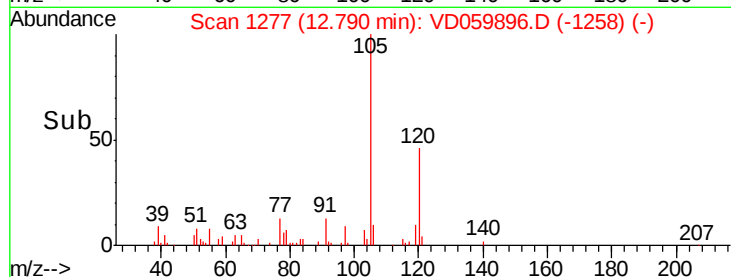
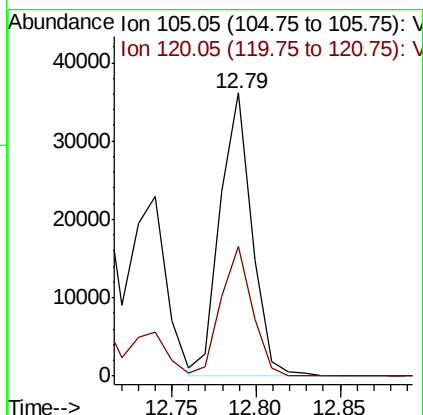
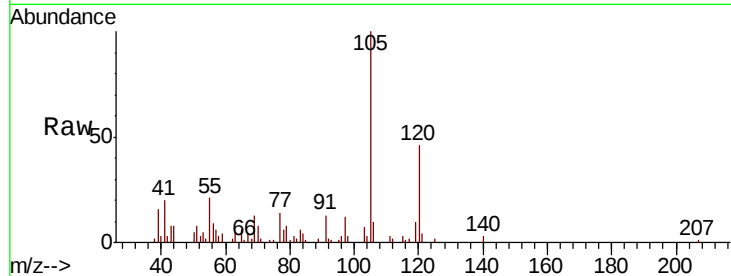




#80
 1,3,5-Trimethylbenzene
 Concen: 3.14 ug/l
 RT: 12.79 min Scan# 1277
 Delta R.T. -0.01 min
 Lab File: VD059896.D
 Acq: 23 Aug 2018 18:58

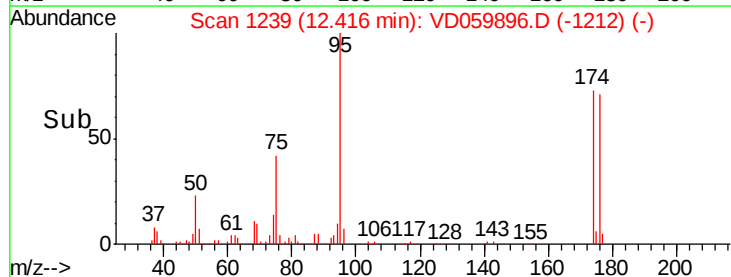
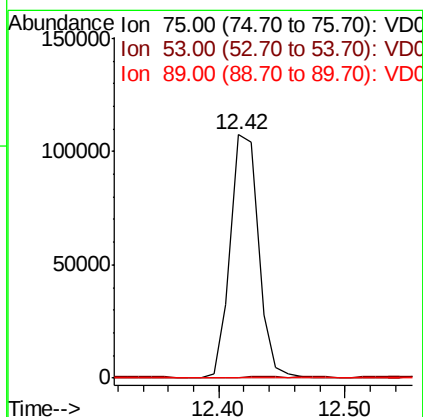
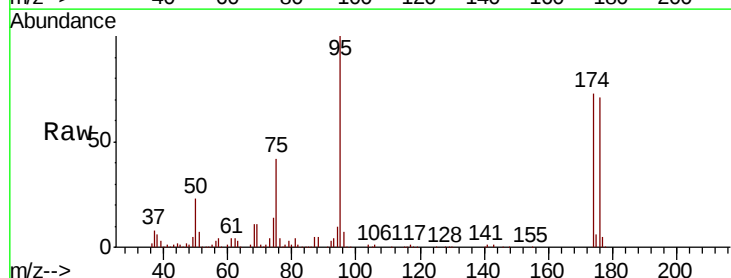
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-053RE

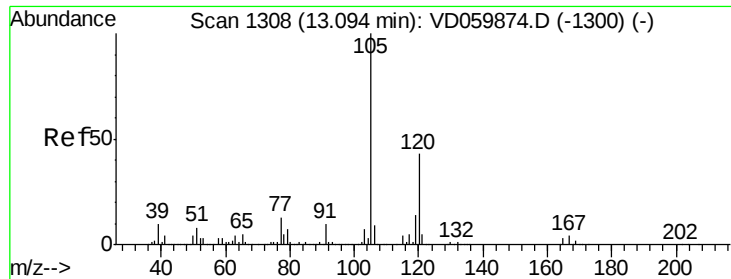
Tot Ion:105 Resp: 47336
 Ion Ratio Lower Upper
 105 100
 120 45.8 24.5 73.5



#81
 trans-1,4-Dichloro-2-butene
 Concen: 116.07 ug/l
 RT: 12.42 min Scan# 1239
 Delta R.T. 0.07 min
 Lab File: VD059896.D
 Acq: 23 Aug 2018 18:58

Tgt Ion: 75 Resp: 166504
 Ion Ratio Lower Upper
 75 100
 53 0.4 75.8 113.6#
 89 0.0 33.6 50.4#

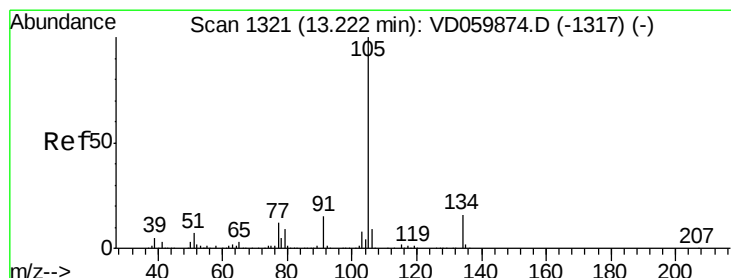
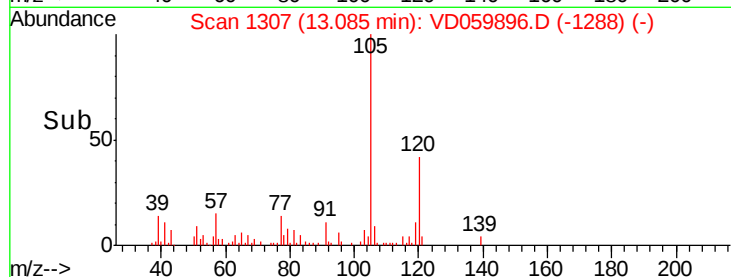
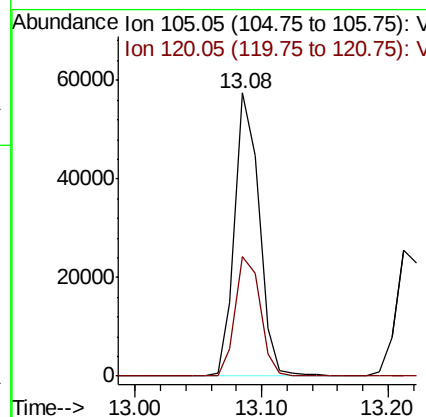
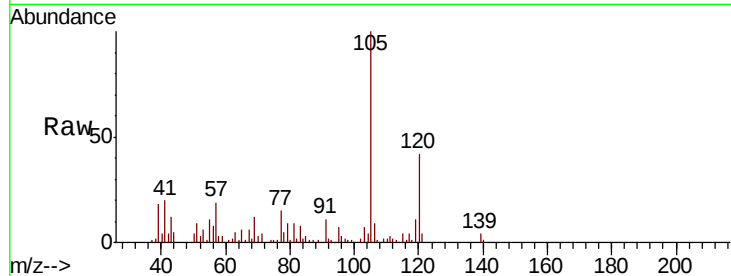




#84
 1,2,4-Trimethylbenzene
 Concen: 4.88 ug/l
 RT: 13.08 min Scan# 1307
 Delta R.T. -0.01 min
 Lab File: VD059896.D
 Acq: 23 Aug 2018 18:58

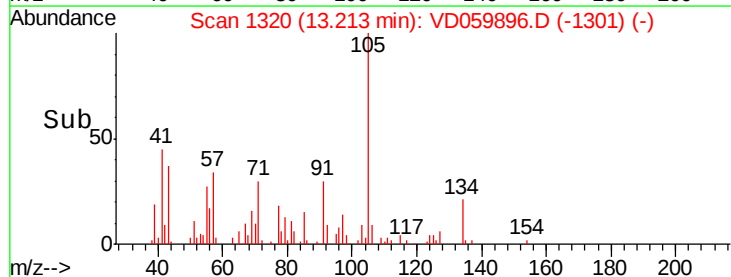
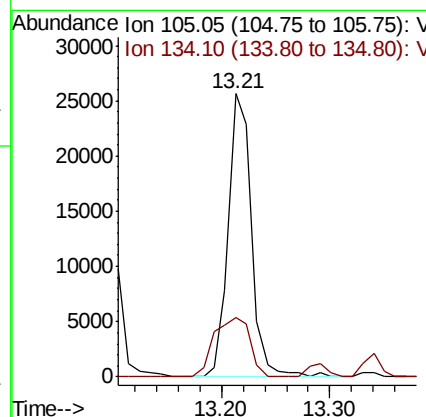
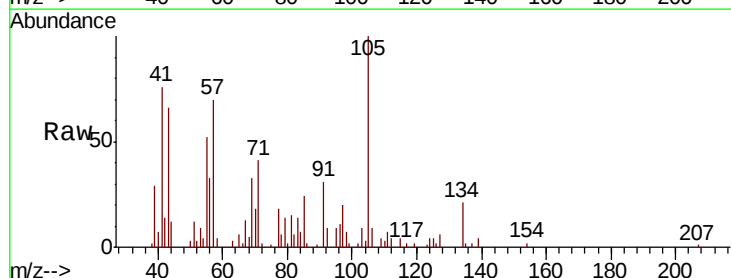
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-053RE

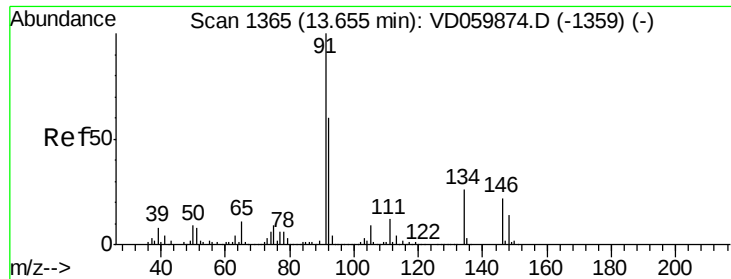
Tot Ion:105 Resp: 76650
 Ion Ratio Lower Upper
 105 100
 120 42.4 21.8 65.3



#85
 sec-Butylbenzene
 Concen: 1.90 ug/l
 RT: 13.21 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: VD059896.D
 Acq: 23 Aug 2018 18:58

Tgt Ion:105 Resp: 38316
 Ion Ratio Lower Upper
 105 100
 134 20.9 8.2 24.4

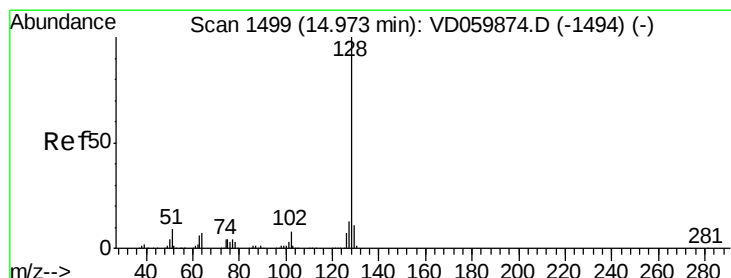
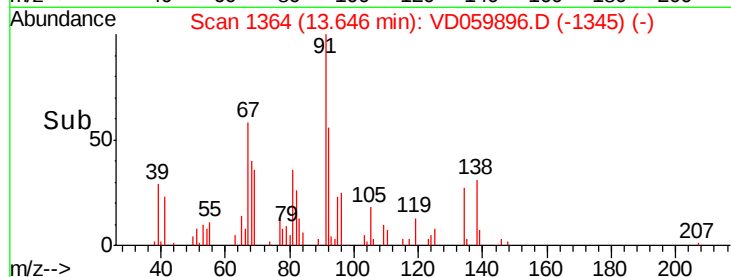
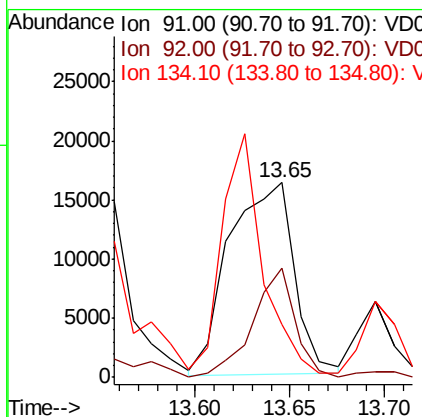
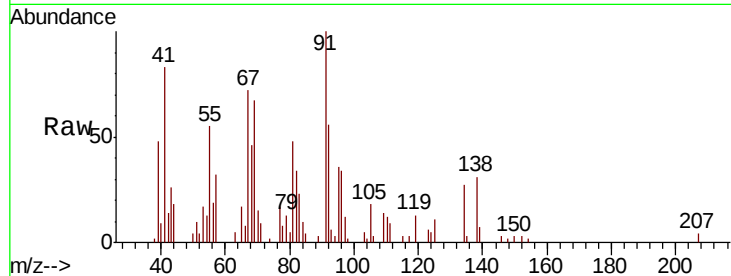




#89
n-Butylbenzene
Concen: 1.17 ug/l
RT: 13.65 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VD059896.D
Acq: 23 Aug 2018 18:58

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

Tot Ion: 91 Resp: 38487
Ion Ratio Lower Upper
91 100
92 56.4 30.0 90.1
134 26.9 12.8 38.4



#95
Naphthalene
Concen: 1.12 ug/l
RT: 14.96 min Scan# 1498
Delta R.T. -0.01 min
Lab File: VD059896.D
Acq: 23 Aug 2018 18:58

Tgt Ion: 128 Resp: 11691
Ion Ratio Lower Upper
128 100
127 20.3 10.0 15.0#
129 19.3 8.6 13.0#

