

Data File : VD059866.D
Acq On : 21 Aug 2018 20:09
Operator : JC/SY
Sample : J4559-05
Misc : 5.04g/5ml/MSVOA_D/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-049

Quant Time: Aug 22 01:13:46 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082018S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 21 04:40:12 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.61	168	824791	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.66	114	1197310	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.66	117	699855	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.89	152	238304	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.98	65	415362	62.92	ug/l	0.01
Spiked Amount	50.000		Recovery	=	125.84%	
35) Dibromofluoromethane	5.51	113	525954	59.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.78%	
50) Toluene-d8	8.68	98	1028920	43.09	ug/l	0.01
Spiked Amount	50.000		Recovery	=	86.18%	
62) 4-Bromofluorobenzene	11.91	95	310538	33.89	ug/l	0.01
Spiked Amount	50.000		Recovery	=	67.78%	

Target Compounds

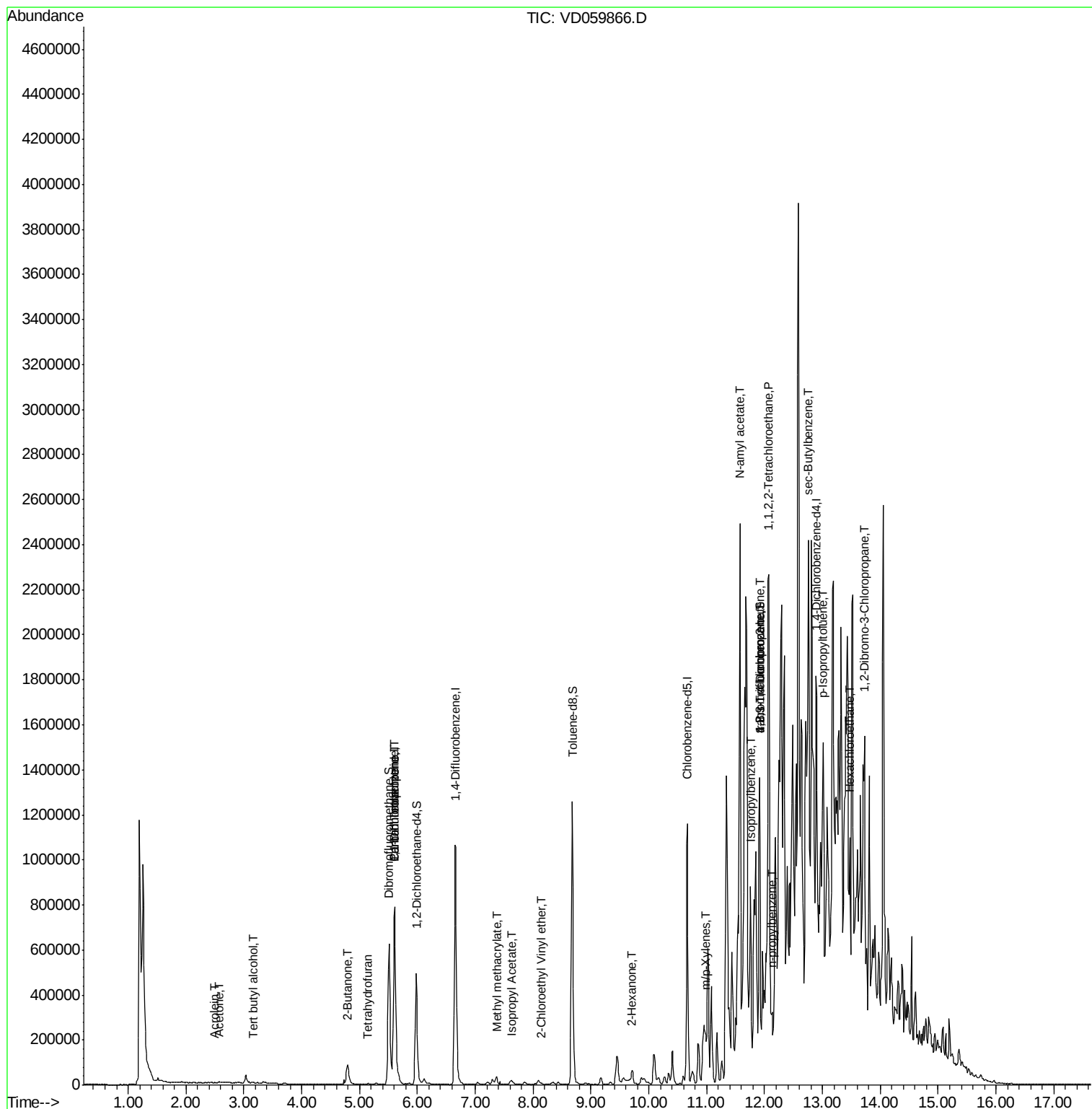
						Qvalue
11) Tert butyl alcohol	3.17	59	1487	6.094	ug/l #	67
13) Acrolein	2.51	56	199	1.866	ug/l #	37
16) Acetone	2.58	43	7454	6.737	ug/l #	87
17) Carbon Disulfide	2.73	76	3301	Below Cal	#	76
18) Methyl Acetate	2.90	43	4101	Below Cal	#	65
20) Methylene Chloride	3.04	84	14941	Below Cal		87
25) 2-Butanone	4.80	43	12038	3.600	ug/l	95
29) Tetrahydrofuran	5.14	42	4523	2.671	ug/l #	68
31) Cyclohexane	5.61	56	16812	Below Cal	#	1
36) 1,1-Dichloropropene	5.60	75	56673	5.581	ug/l #	46
38) Carbon Tetrachloride	5.61	117	65720	6.485	ug/l #	14
43) Isopropyl Acetate	7.61	43	17372	1.669	ug/l #	49
48) Methyl methacrylate	7.36	41	9982	1.738	ug/l #	51
58) 2-Chloroethyl Vinyl ether	8.16	63	414	9.590	ug/l #	51
59) 2-Hexanone	9.71	43	35660	6.931	ug/l #	35
68) m/p-Xylenes	10.99	106	14465	2.011	ug/l	81
73) Isopropylbenzene	11.76	105	72362	4.456	ug/l	97
74) N-amyl acetate	11.57	43	423427	58.228	ug/l #	65
75) 1,1,2,2-Tetrachloroethane	12.07	83	150403	39.291	ug/l #	43
76) 1,2,3-Trichloropropane	11.90	75	104483	26.502	ug/l #	48
78) n-propylbenzene	12.13	91	27433	1.360	ug/l	96
80) 1,3,5-Trimethylbenzene	12.30	105	3174	Below Cal		83
81) trans-1,4-Dichloro-2-buten	11.90	75	117963	95.714	ug/l #	13
82) 4-Chlorotoluene	12.25	91	3151	Below Cal		85
85) sec-Butylbenzene	12.74	105	127401	7.498	ug/l	95
86) p-Isopropyltoluene	13.01	119	65053	4.881	ug/l	94
90) Hexachloroethane	13.47	117	106875	28.105	ug/l #	5
91) 1,2-Dichlorobenzene	13.17	146	317	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	13.73	75	3196	5.609	ug/l #	1

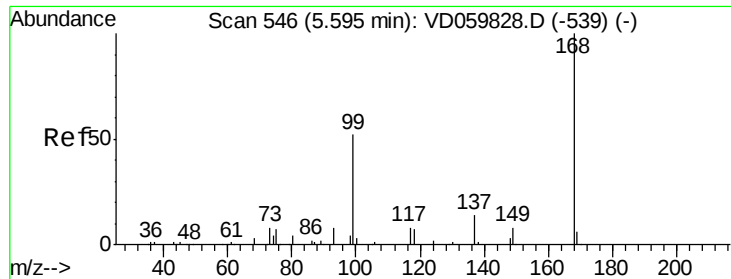
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 21 04:40:12 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 547

Delta R.T. 0.01 min

Lab File: VD059866.D

Acq: 21 Aug 2018 20:09

Instrument :

MSVOA_D

ClientSampleId :

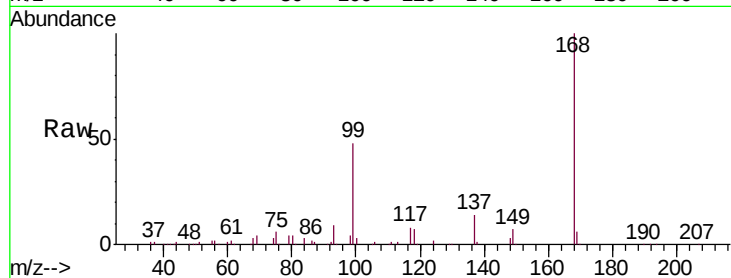
RA-081718-WSW-20-049

Tgt Ion:168 Resp: 824791

Ion Ratio Lower Upper

168 100

99 48.0 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.61

300000

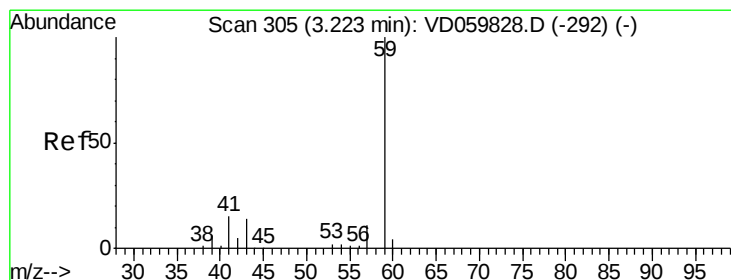
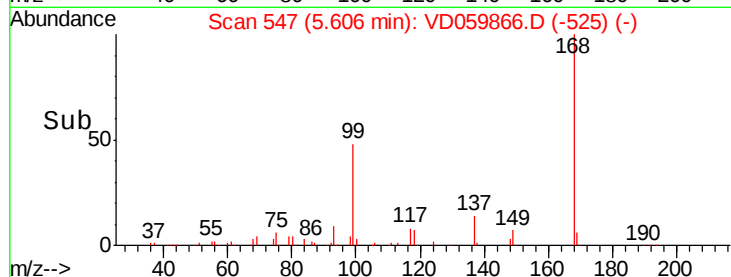
200000

100000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 6.094 ug/l

RT: 3.17 min Scan# 299

Delta R.T. -0.06 min

Lab File: VD059866.D

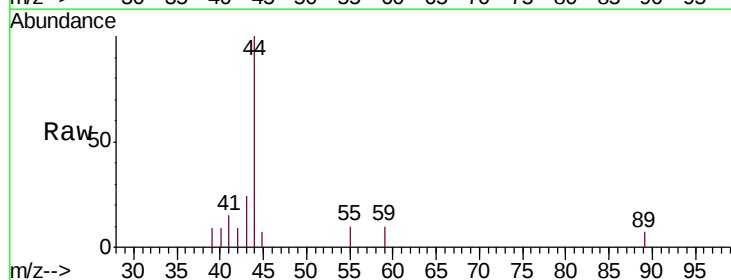
Acq: 21 Aug 2018 20:09

Tgt Ion: 59 Resp: 1487

Ion Ratio Lower Upper

59 100

57 0.0 10.3 15.5#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.17

600

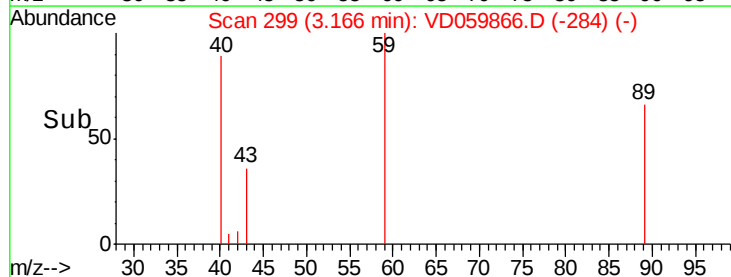
400

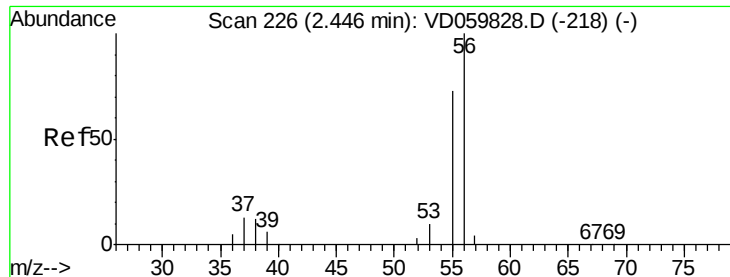
200

0

Time-->

3.10 3.15 3.20





#13

Acrolein

Concen: 1.866 ug/l

RT: 2.51 min Scan# 232

Delta R.T. 0.06 min

Lab File: VD059866.D

Acq: 21 Aug 2018 20:09

Instrument :

MSVOA_D

ClientSampleId :

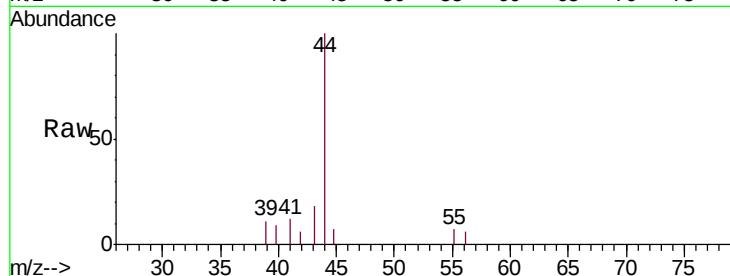
RA-081718-WSW-20-049

Tgt Ion: 56 Resp: 199

Ion Ratio Lower Upper

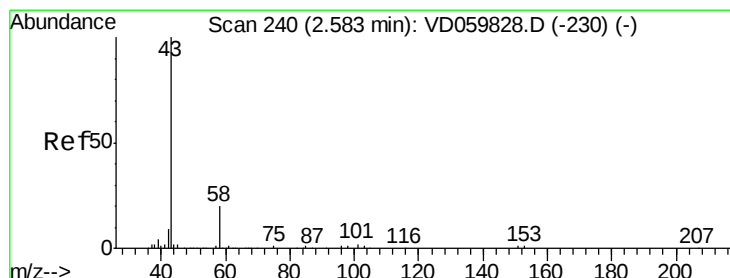
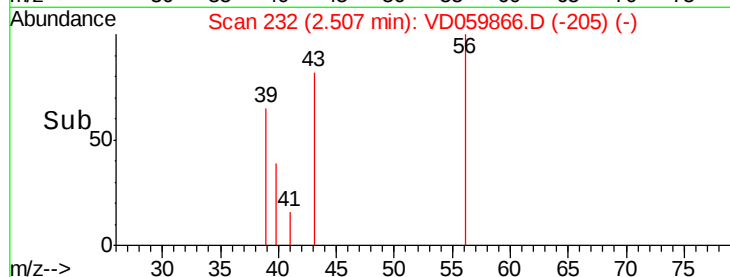
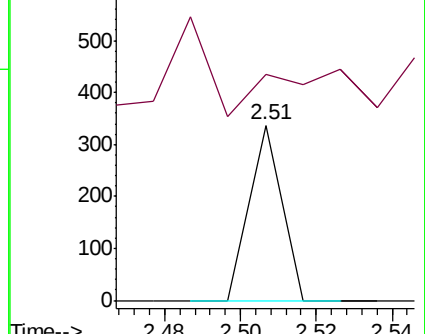
56 100

55 129.1 60.4 90.6#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 6.737 ug/l

RT: 2.58 min Scan# 239

Delta R.T. -0.01 min

Lab File: VD059866.D

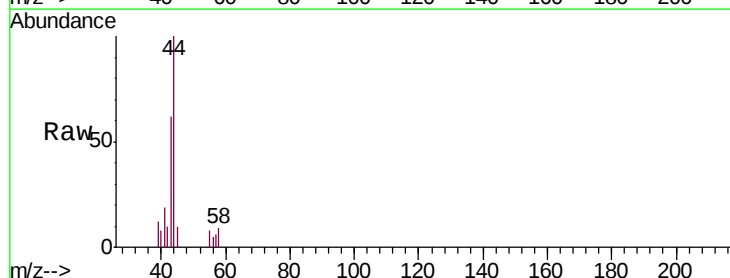
Acq: 21 Aug 2018 20:09

Tgt Ion: 43 Resp: 7454

Ion Ratio Lower Upper

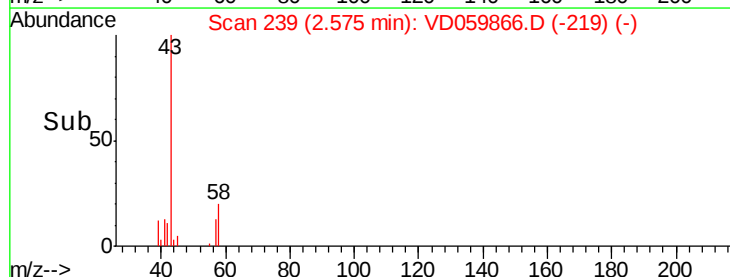
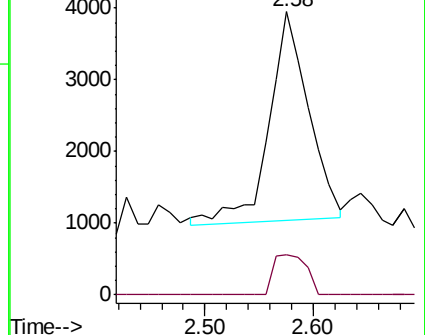
43 100

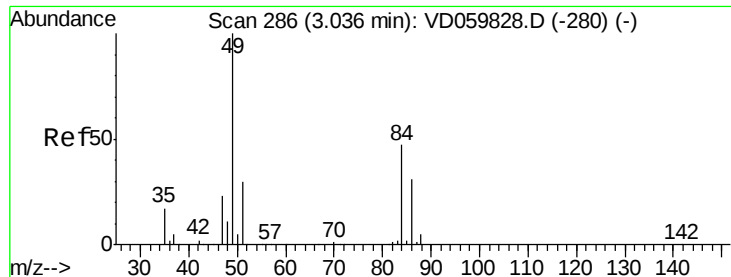
58 14.0 16.2 24.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

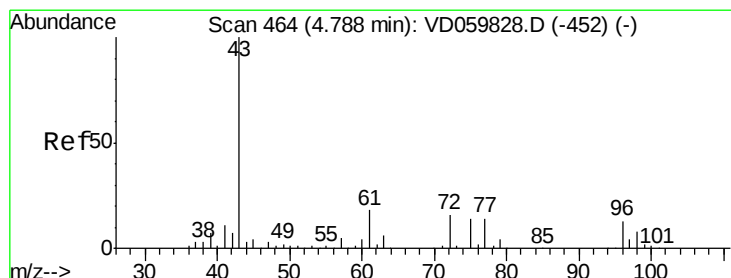
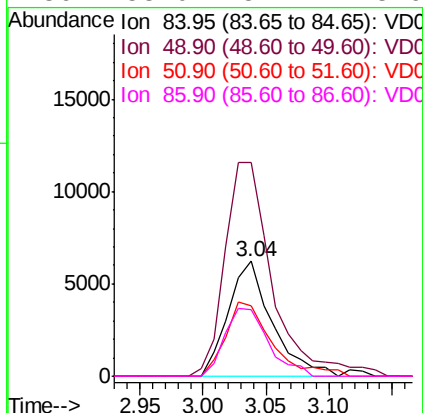
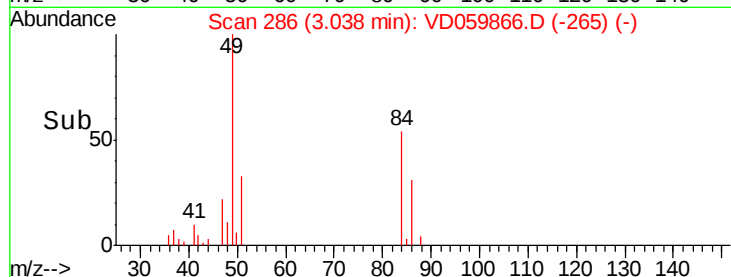
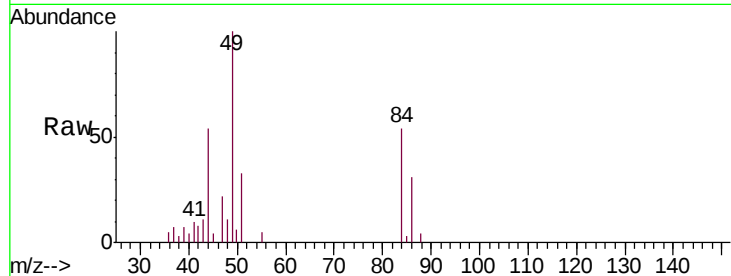




#20
Methylene Chloride
Concen: Below Cal
RT: 3.04 min Scan# 286
Delta R.T. 0.00 min
Lab File: VD059866.D
Acq: 21 Aug 2018 20:09

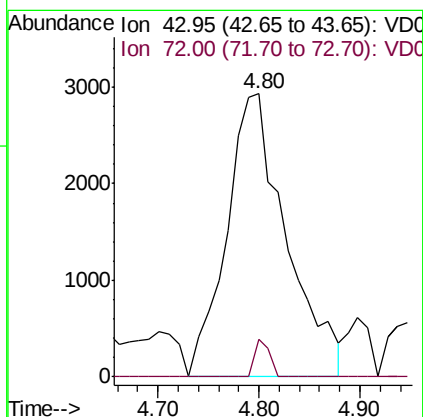
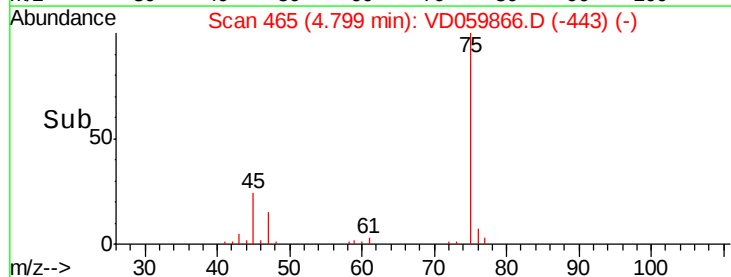
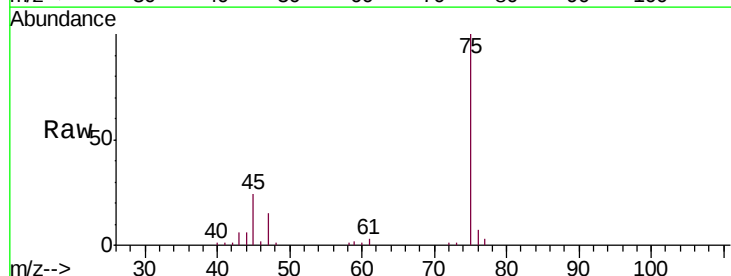
Instrument :
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RA-081718-WSW-20-049

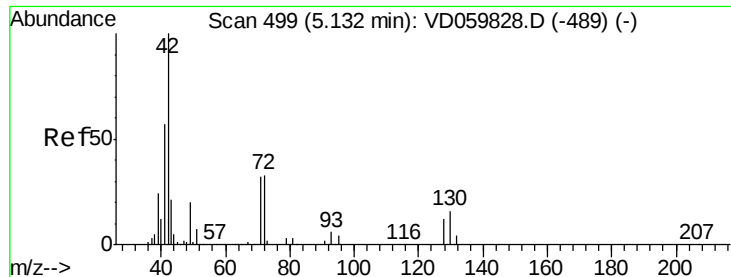
Tgt Ion: 84 Resp: 14941
Ion Ratio Lower Upper
84 100
49 185.9 170.4 255.6
51 61.8 51.4 77.0
86 58.0 52.4 78.6



#25
2-Butanone
Concen: 3.600 ug/l
RT: 4.80 min Scan# 465
Delta R.T. 0.01 min
Lab File: VD059866.D
Acq: 21 Aug 2018 20:09

Tgt Ion: 43 Resp: 12038
Ion Ratio Lower Upper
43 100
72 13.5 12.4 18.6

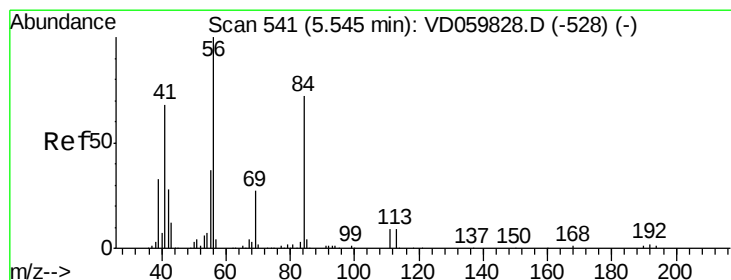
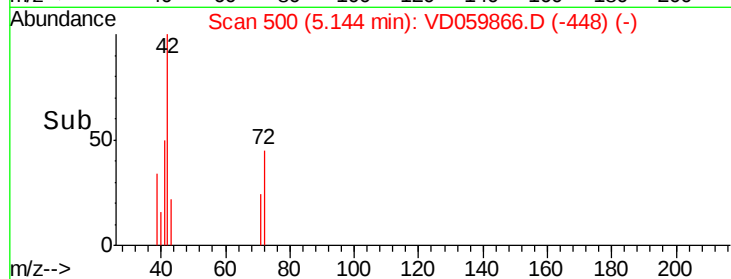
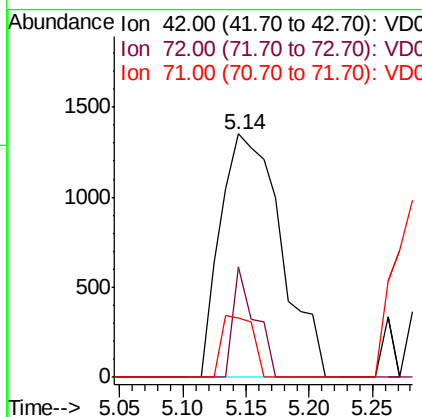
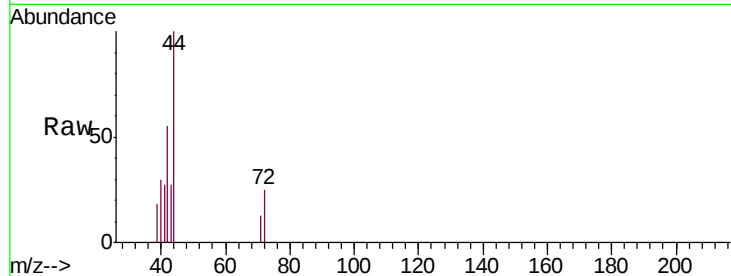




#29
Tetrahydrofuran
Concen: 2.671 ug/l
RT: 5.14 min Scan# 500
Delta R.T. 0.01 min
Lab File: VD059866.D
Acq: 21 Aug 2018 20:09

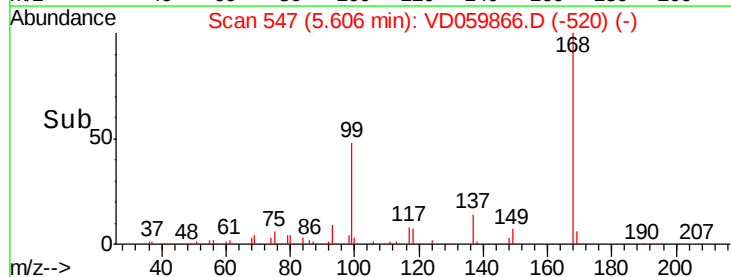
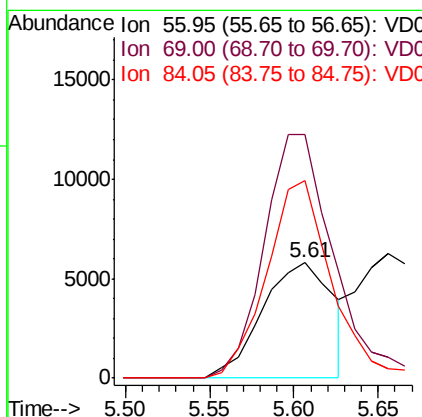
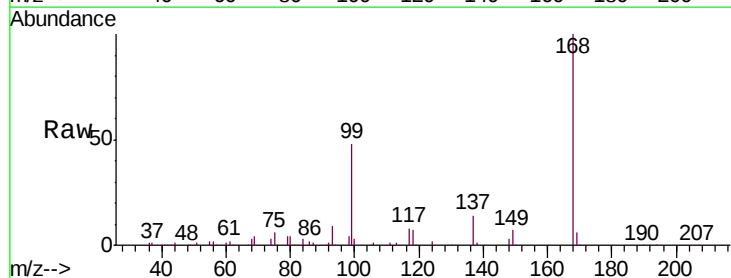
Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-049

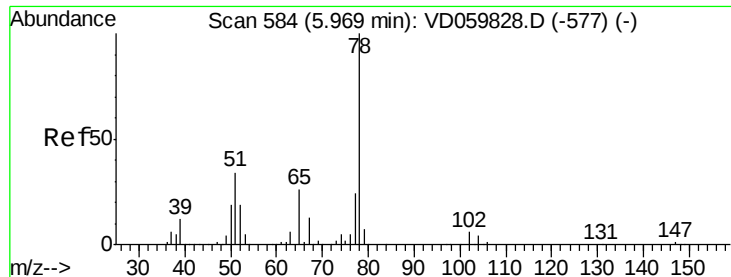
Tgt Ion: 42 Resp: 4523
Ion Ratio Lower Upper
42 100
72 16.2 25.8 38.6#
71 12.8 25.7 38.5#



#31
Cyclohexane
Concen: Below Cal
RT: 5.61 min Scan# 547
Delta R.T. 0.06 min
Lab File: VD059866.D
Acq: 21 Aug 2018 20:09

Tgt Ion: 56 Resp: 16812
Ion Ratio Lower Upper
56 100
69 211.4 21.7 32.5#
84 171.4 57.8 86.6#

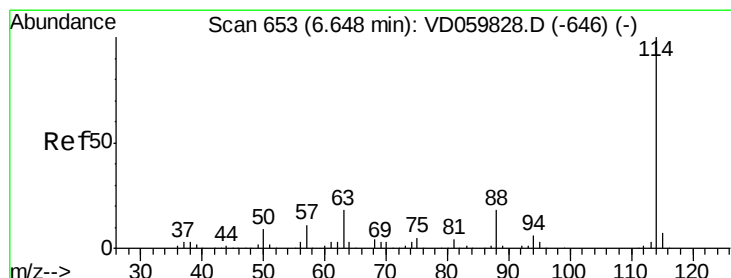
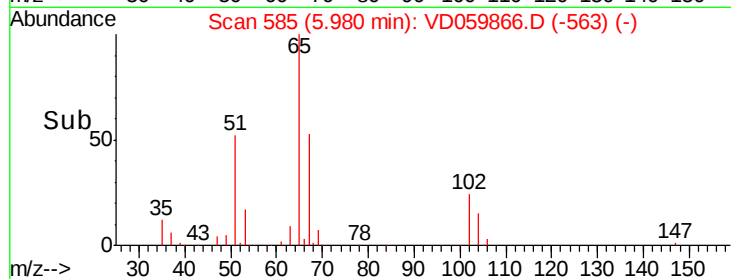
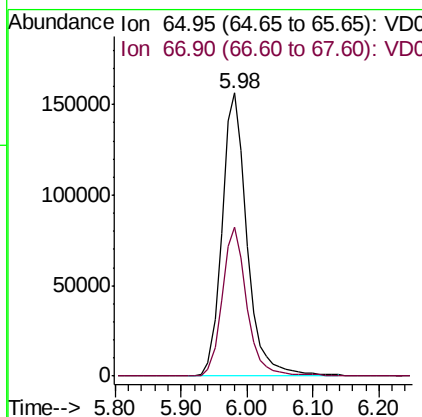
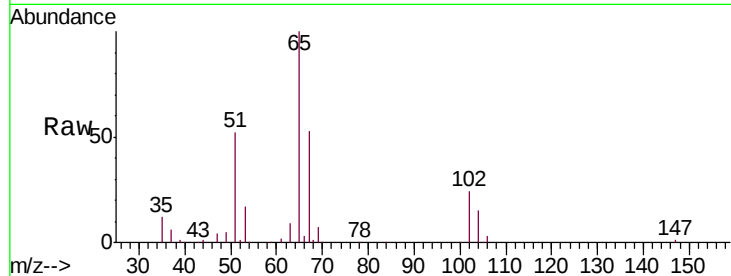




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 5.98 min Scan# 585
 Delta R.T. 0.01 min
 Lab File: VD059866.D
 Acq: 21 Aug 2018 20:09

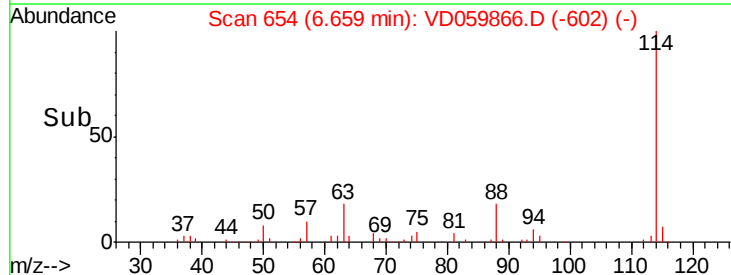
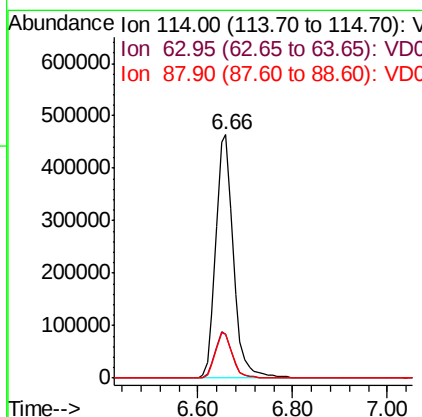
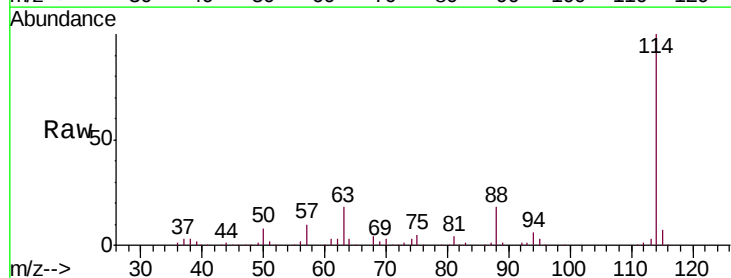
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-049

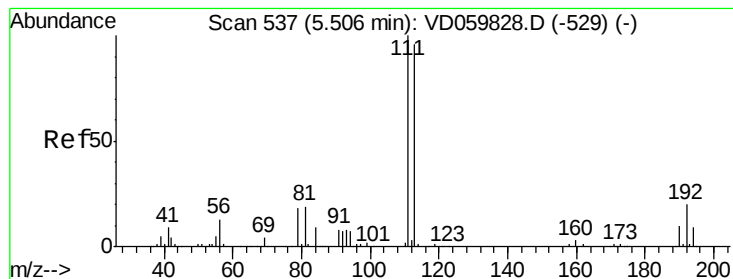
Tgt Ion: 65 Resp: 415362
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.66 min Scan# 654
 Delta R.T. 0.01 min
 Lab File: VD059866.D
 Acq: 21 Aug 2018 20:09

Tgt Ion: 114 Resp: 1197310
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 37.0
 88 17.8 0.0 37.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.51 min Scan# 537

Delta R.T. 0.00 min

Lab File: VD059866.D

Acq: 21 Aug 2018 20:09

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-049

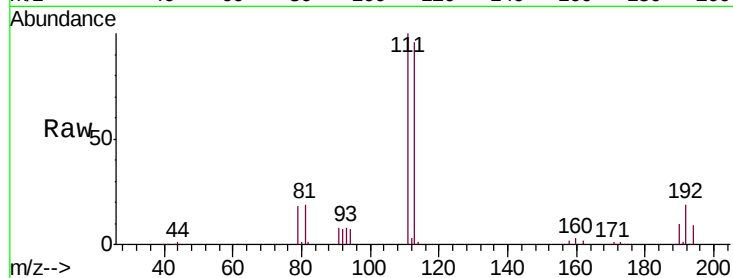
Tgt Ion: 113 Resp: 525954

Ion Ratio Lower Upper

113 100

111 104.0 83.3 124.9

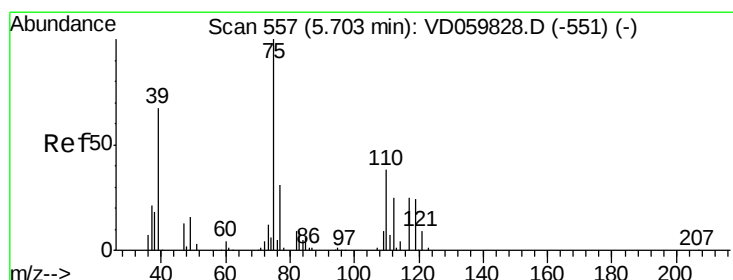
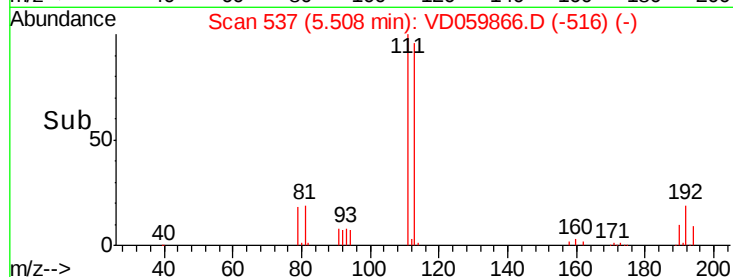
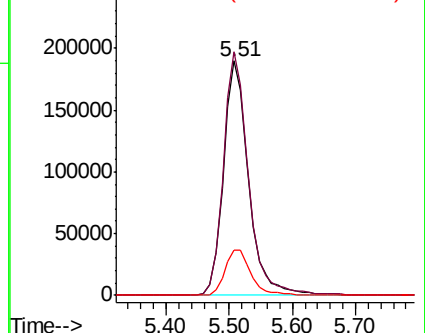
192 19.3 16.8 25.2



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 5.581 ug/l

RT: 5.60 min Scan# 546

Delta R.T. -0.11 min

Lab File: VD059866.D

Acq: 21 Aug 2018 20:09

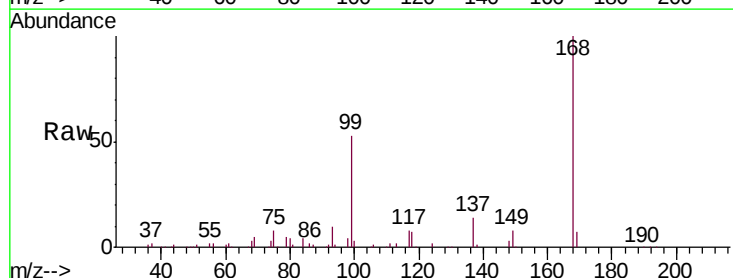
Tgt Ion: 75 Resp: 56673

Ion Ratio Lower Upper

75 100

110 6.5 18.8 56.4#

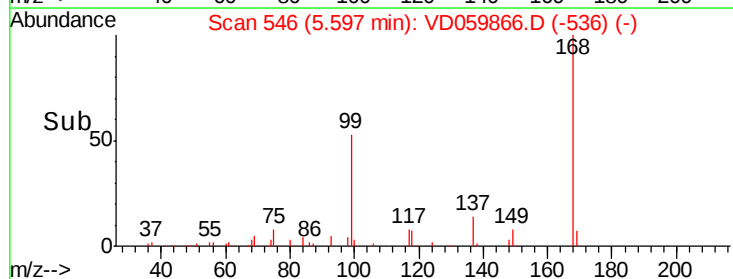
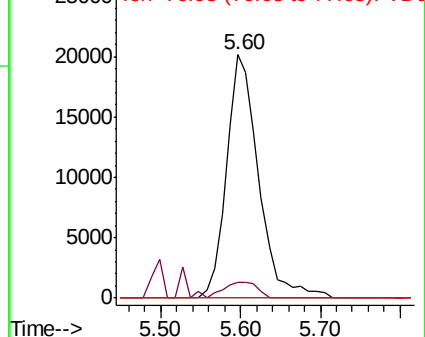
77 0.0 24.9 37.3#

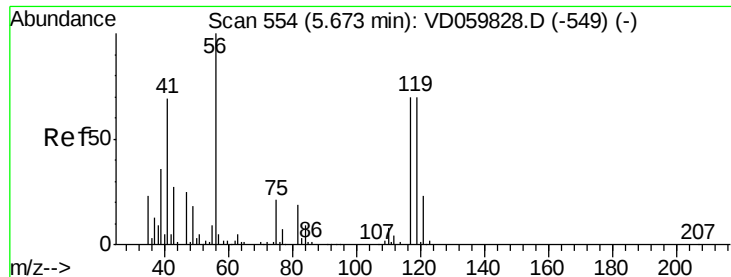


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

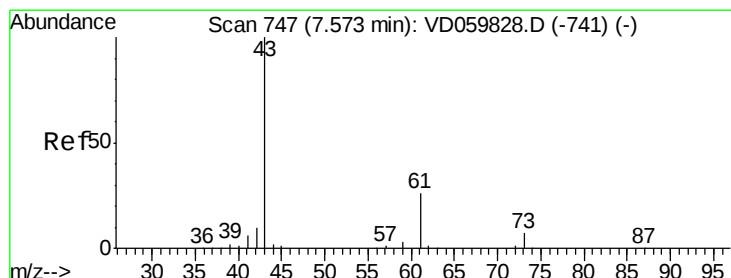
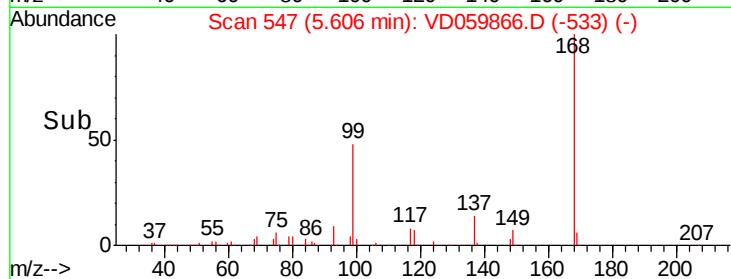
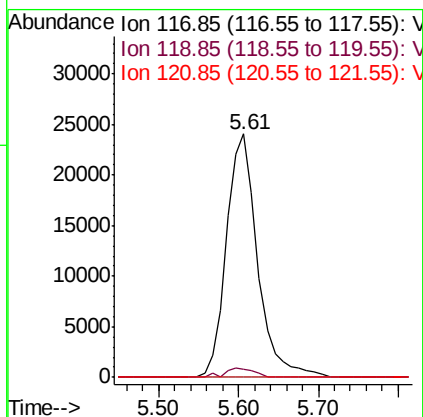
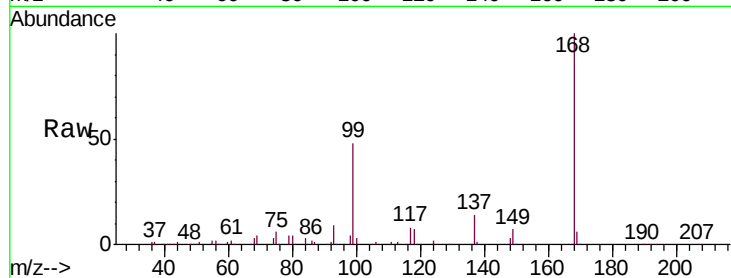




#38
Carbon Tetrachloride
Concen: 6.485 ug/l
RT: 5.61 min Scan# 547
Delta R.T. -0.07 min
Lab File: VD059866.D
Acq: 21 Aug 2018 20:09

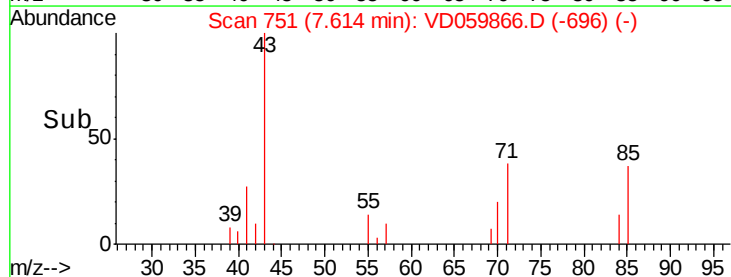
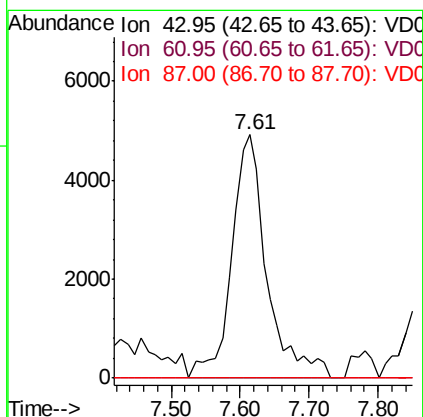
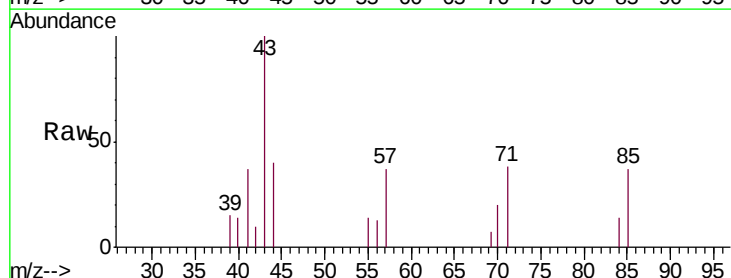
Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-049

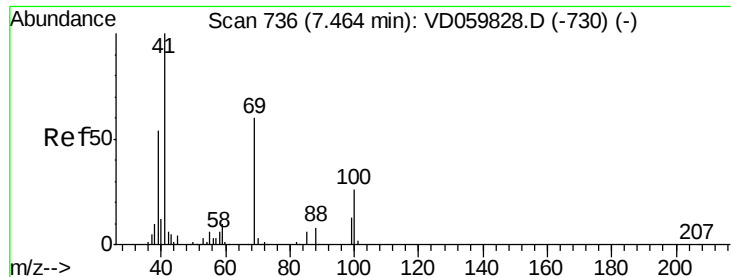
Tgt Ion:117 Resp: 65720
Ion Ratio Lower Upper
117 100
119 3.1 77.0 115.4#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 1.669 ug/l
RT: 7.61 min Scan# 751
Delta R.T. 0.04 min
Lab File: VD059866.D
Acq: 21 Aug 2018 20:09

Tgt Ion: 43 Resp: 17372
Ion Ratio Lower Upper
43 100
61 0.0 21.0 31.4#
87 0.0 0.2 0.4#

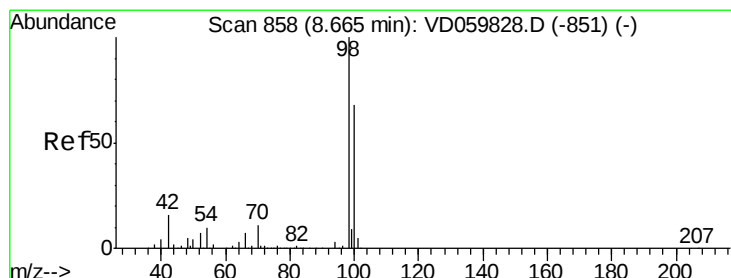
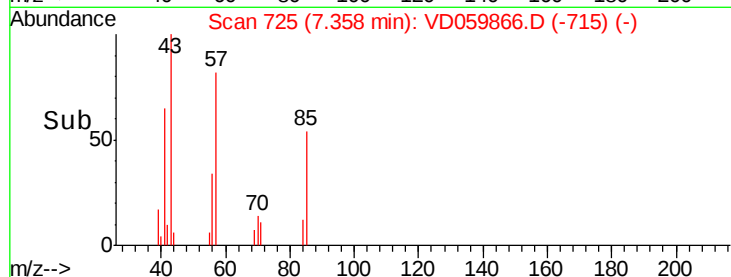
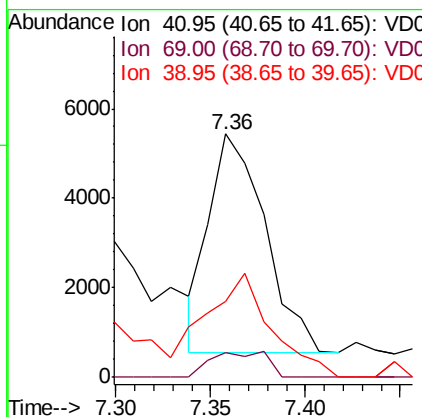
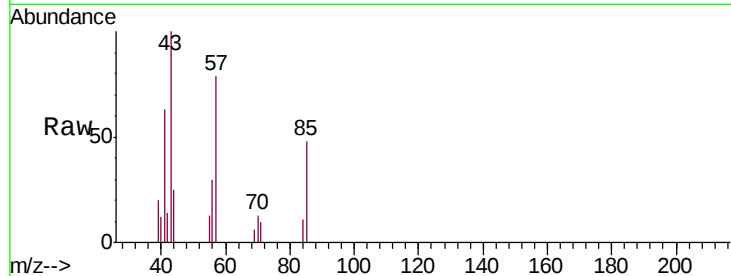




#48
Methyl methacrylate
Concen: 1.738 ug/l
RT: 7.36 min Scan# 725
Delta R.T. -0.11 min
Lab File: VD059866.D
Acq: 21 Aug 2018 20:09

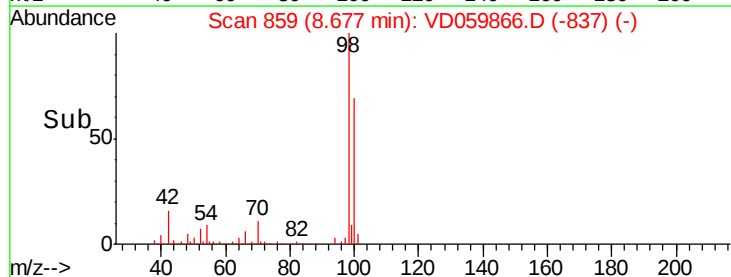
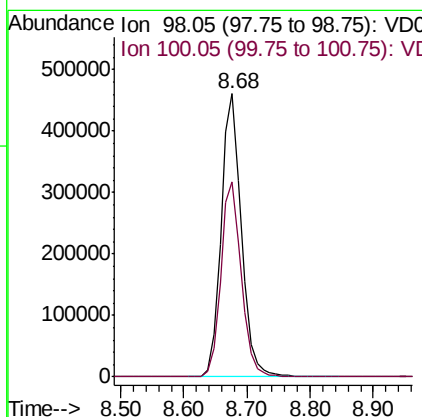
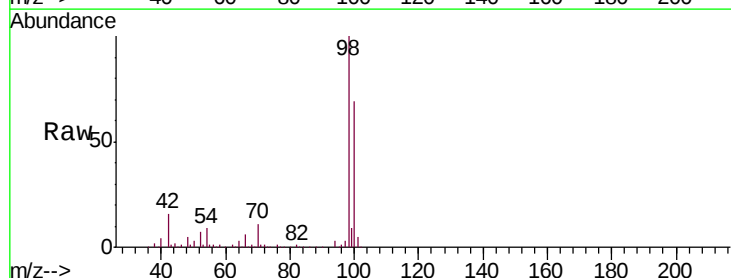
Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-049

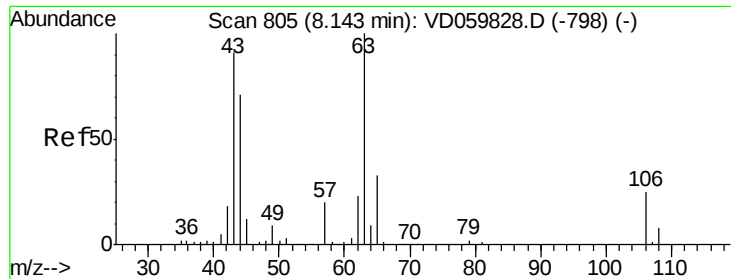
Tgt Ion: 41 Resp: 9982
Ion Ratio Lower Upper
41 100
69 10.1 47.0 70.4#
39 31.2 43.4 65.2#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.68 min Scan# 859
Delta R.T. 0.01 min
Lab File: VD059866.D
Acq: 21 Aug 2018 20:09

Tgt Ion: 98 Resp: 1028920
Ion Ratio Lower Upper
98 100
100 68.9 55.0 82.4

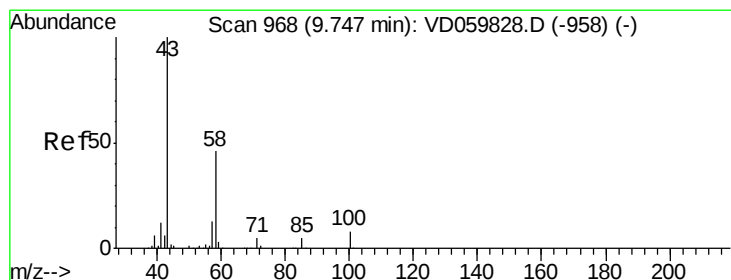
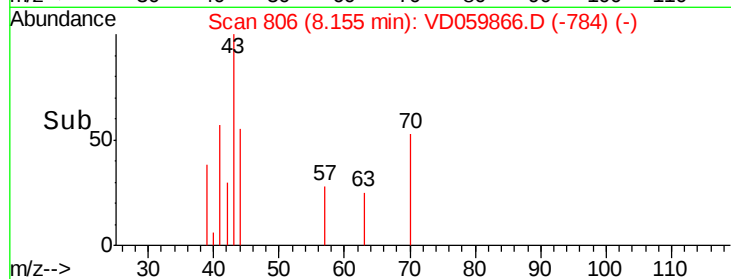
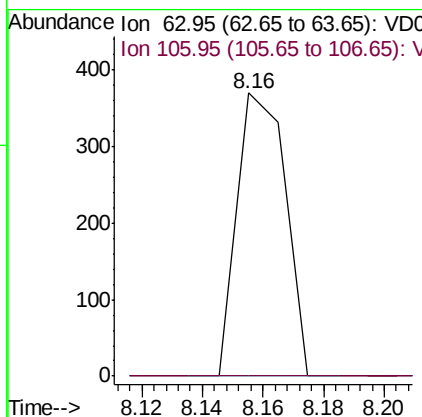
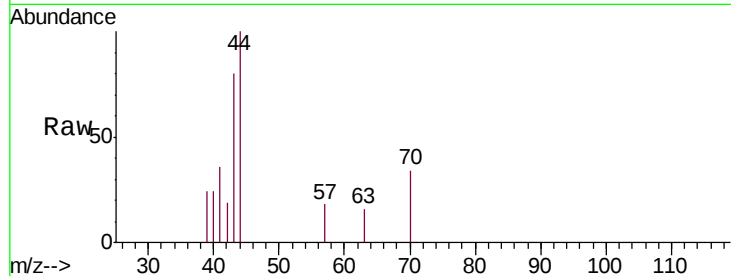




#58
 2-Chloroethyl Vinyl ether
 Concen: 9.590 ug/l
 RT: 8.16 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VD059866.D
 Acq: 21 Aug 2018 20:09

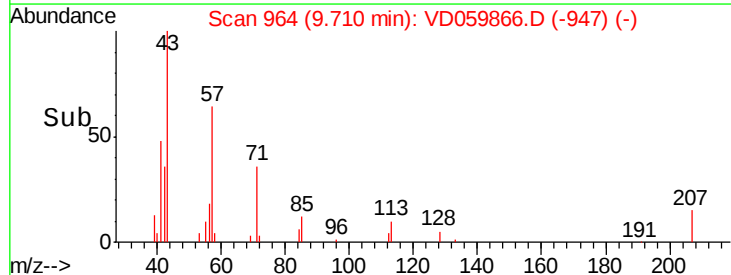
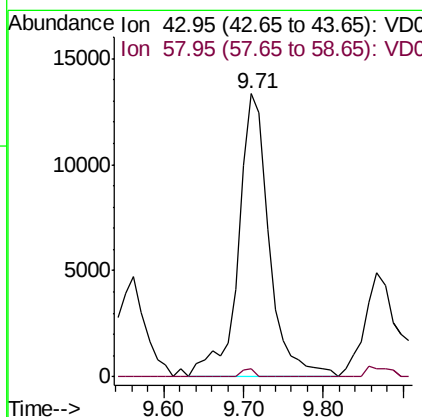
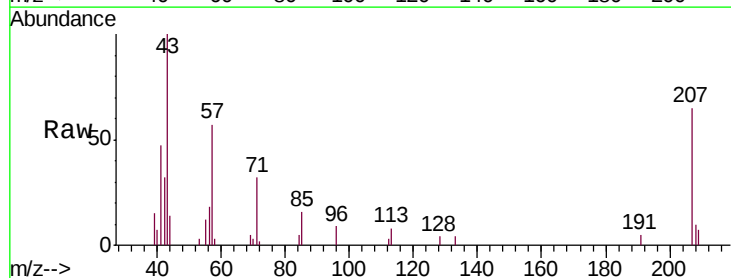
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-049

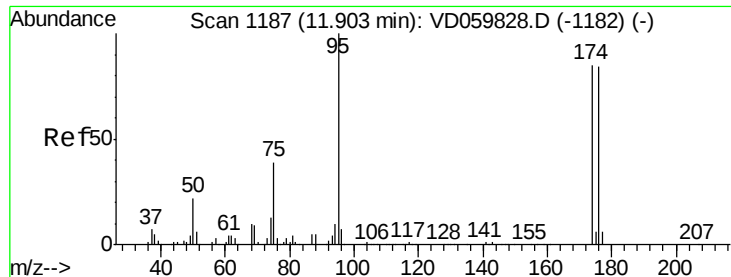
Tgt Ion: 63 Resp: 414
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.6 29.4#



#59
 2-Hexanone
 Concen: 6.931 ug/l
 RT: 9.71 min Scan# 964
 Delta R.T. -0.04 min
 Lab File: VD059866.D
 Acq: 21 Aug 2018 20:09

Tgt Ion: 43 Resp: 35660
 Ion Ratio Lower Upper
 43 100
 58 3.0 23.1 69.2#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.91 min Scan# 1188

Delta R.T. 0.01 min

Lab File: VD059866.D

Acq: 21 Aug 2018 20:09

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-049

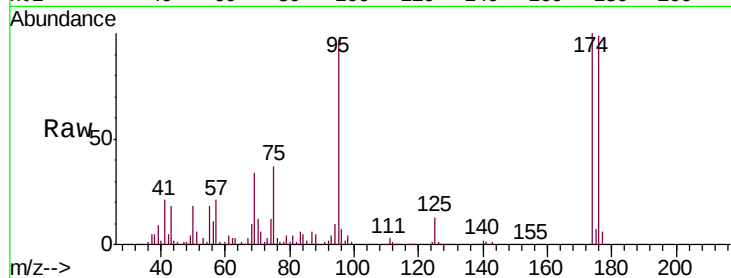
Tgt Ion: 95 Resp: 310538

Ion Ratio Lower Upper

95 100

174 103.4 0.0 169.2

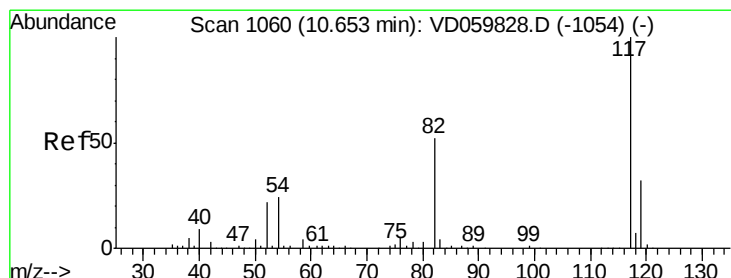
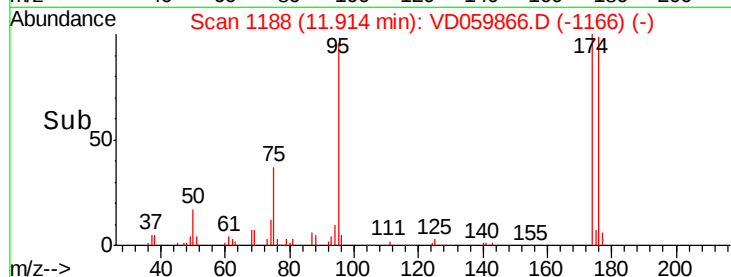
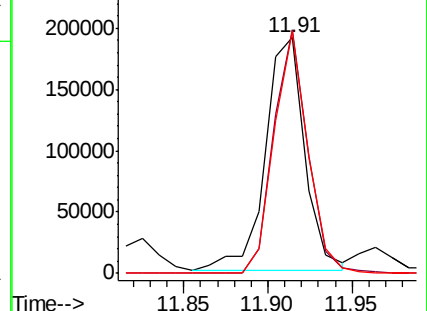
176 102.9 0.0 168.0



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.66 min Scan# 1061

Delta R.T. 0.01 min

Lab File: VD059866.D

Acq: 21 Aug 2018 20:09

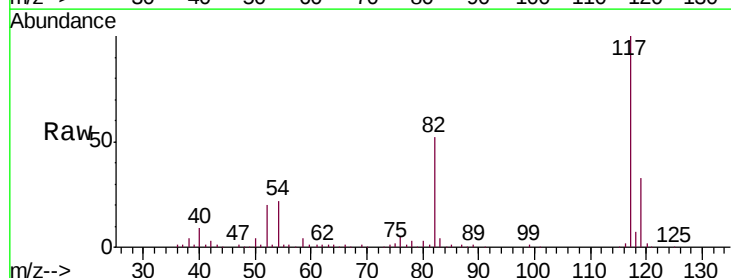
Tgt Ion: 117 Resp: 699855

Ion Ratio Lower Upper

117 100

82 52.2 41.6 62.4

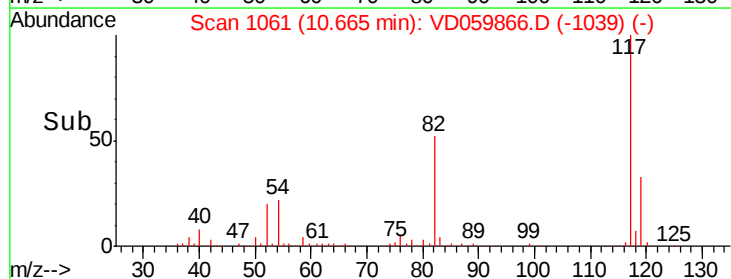
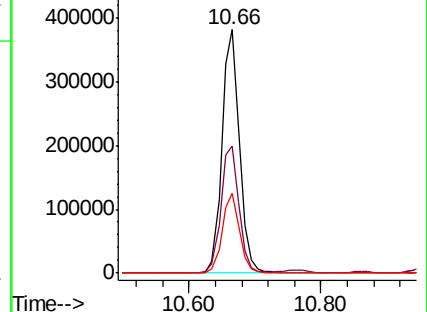
119 32.9 25.6 38.4

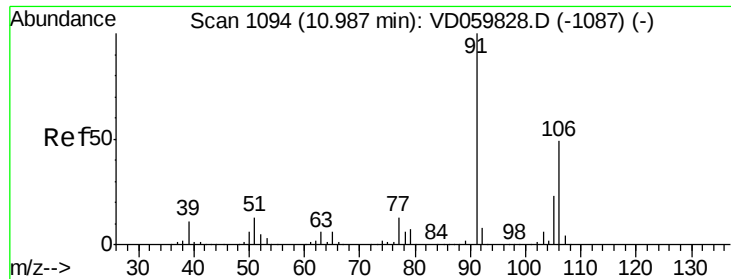


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

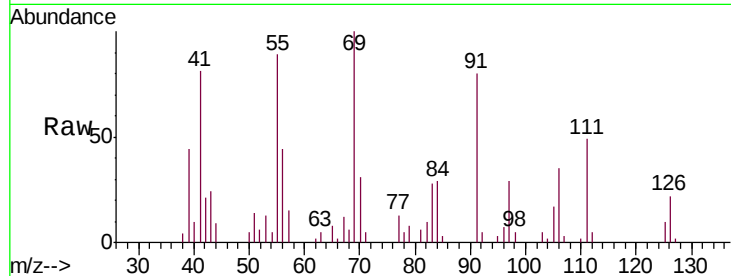




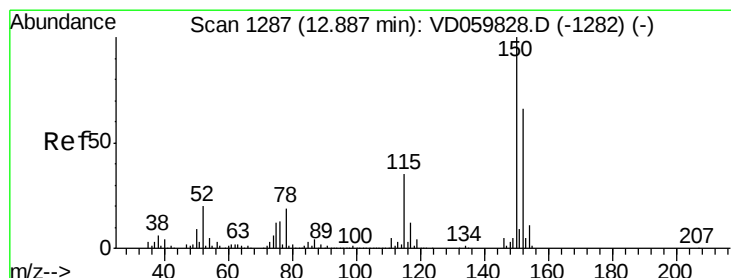
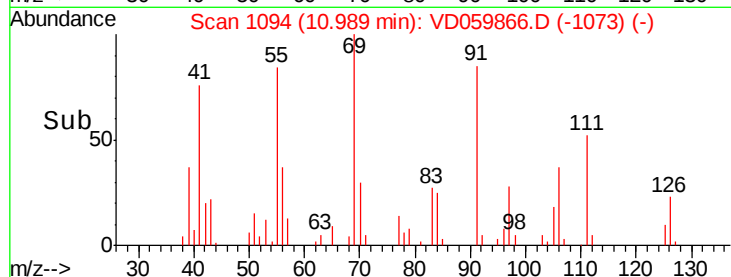
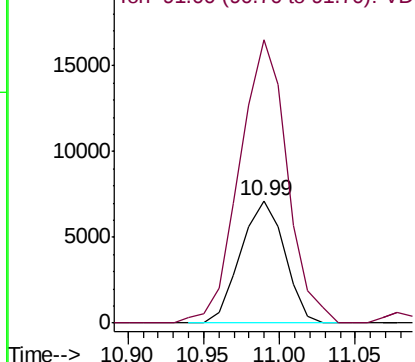
#68
m/p-Xylenes
Concen: 2.011 ug/l
RT: 10.99 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD059866.D
Acq: 21 Aug 2018 20:09

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-049

Tgt Ion:106 Resp: 14465
Ion Ratio Lower Upper
106 100
91 231.0 161.8 242.8

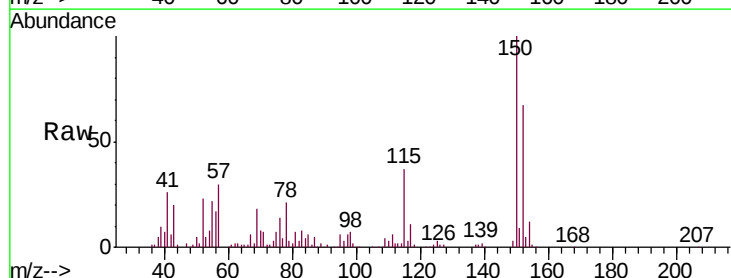


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

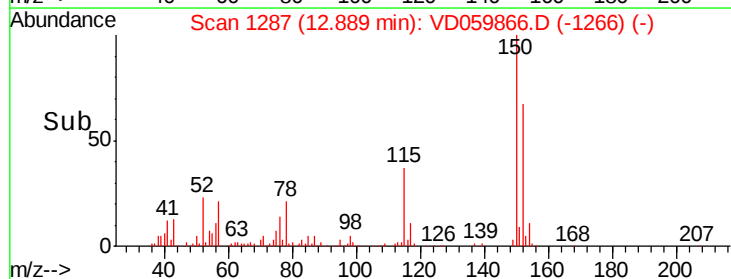
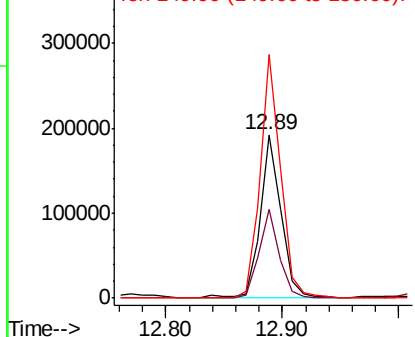


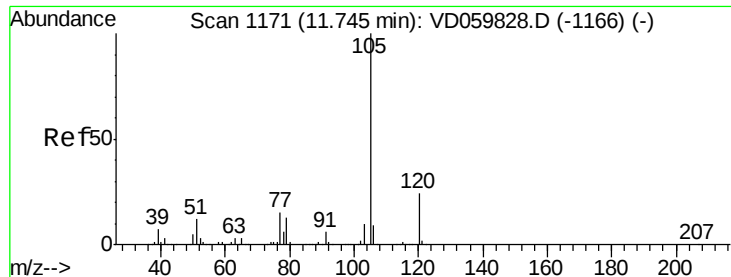
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.89 min Scan# 1287
Delta R.T. 0.00 min
Lab File: VD059866.D
Acq: 21 Aug 2018 20:09

Tgt Ion:152 Resp: 238304
Ion Ratio Lower Upper
152 100
115 54.7 26.9 80.6
150 149.2 0.0 306.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 4.456 ug/l

RT: 11.76 min Scan# 1172

Delta R.T. 0.01 min

Lab File: VD059866.D

Acq: 21 Aug 2018 20:09

Instrument :

MSVOA_D

ClientSampleId :

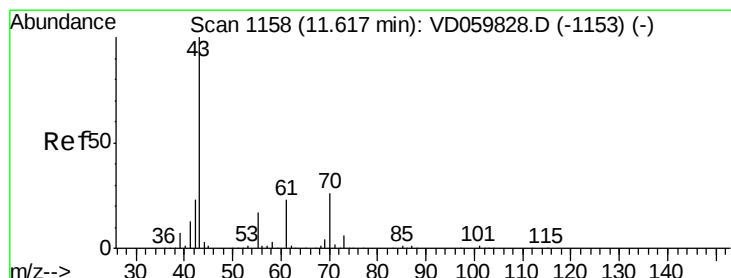
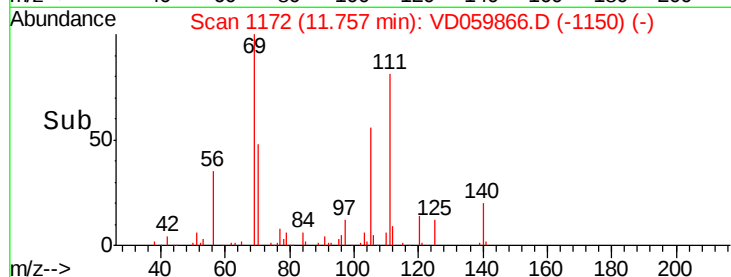
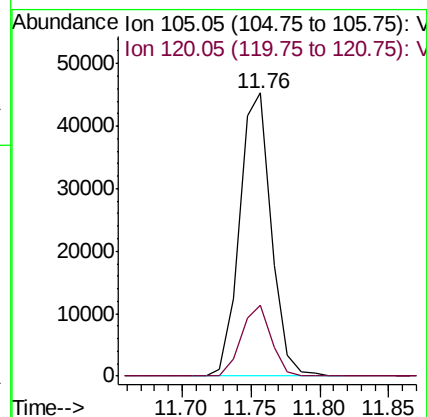
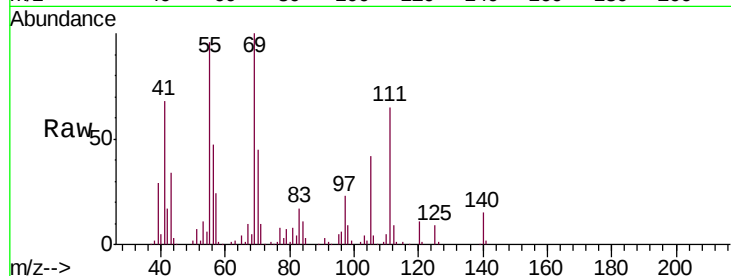
RA-081718-WSW-20-049

Tgt Ion: 105 Resp: 72362

Ion Ratio Lower Upper

105 100

120 25.2 11.9 35.5



#74

N-ethyl acetate

Concen: 58.228 ug/l

RT: 11.57 min Scan# 1153

Delta R.T. -0.05 min

Lab File: VD059866.D

Acq: 21 Aug 2018 20:09

Tgt Ion: 43 Resp: 423427

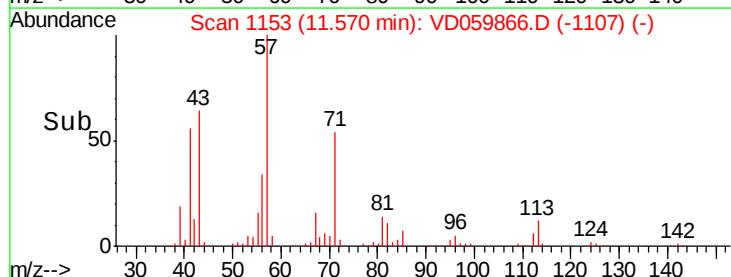
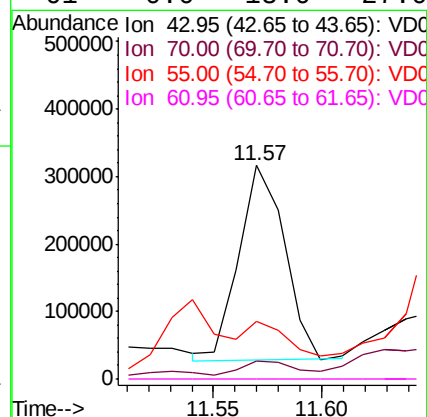
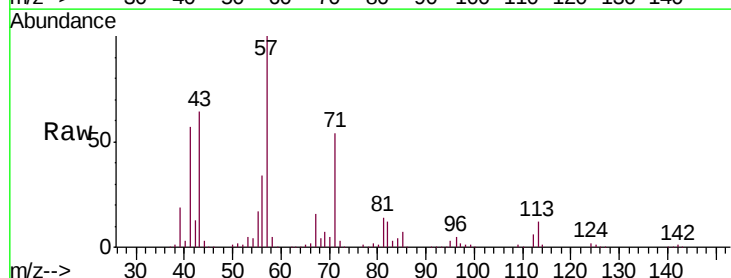
Ion Ratio Lower Upper

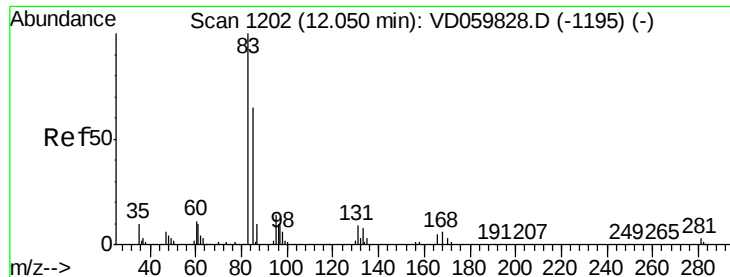
43 100

70 8.6 20.5 30.7#

55 27.2 13.7 20.5#

61 0.0 18.0 27.0#





#75

1,1,2,2-Tetrachloroethane

Concen: 39.291 ug/l

RT: 12.07 min Scan# 1204

Delta R.T. 0.02 min

Lab File: VD059866.D

Acq: 21 Aug 2018 20:09

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-WSW-20-049

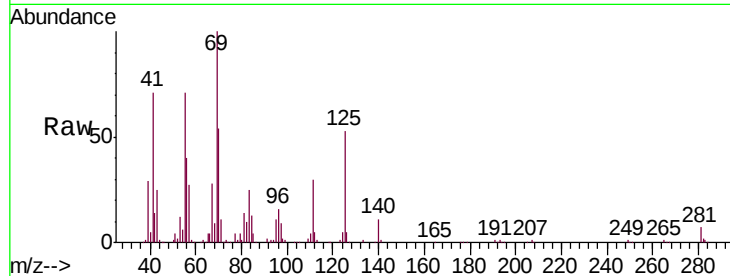
Tgt Ion: 83 Resp: 150403

Ion Ratio Lower Upper

83 100

131 0.0 4.3 13.1#

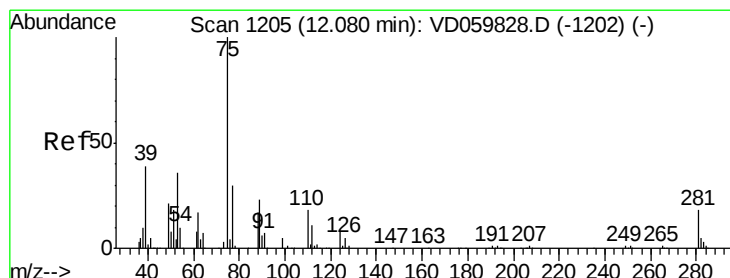
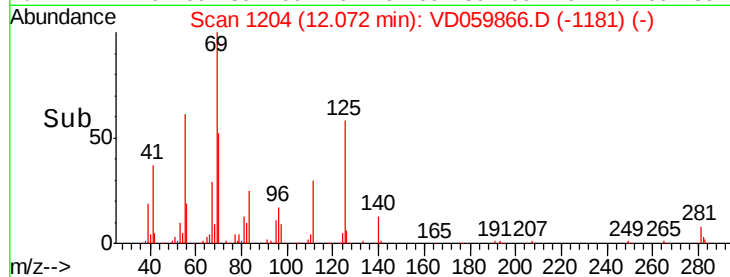
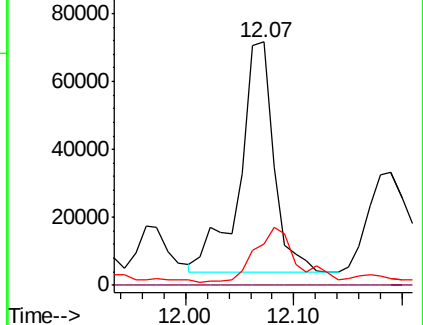
85 17.0 32.5 97.5#



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



#76

1,2,3-Trichloropropane

Concen: 26.502 ug/l

RT: 11.90 min Scan# 1187

Delta R.T. -0.18 min

Lab File: VD059866.D

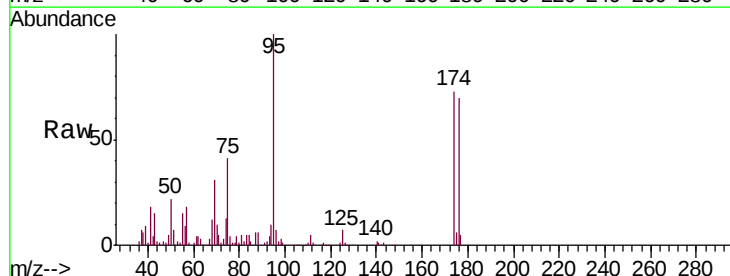
Acq: 21 Aug 2018 20:09

Tgt Ion: 75 Resp: 104483

Ion Ratio Lower Upper

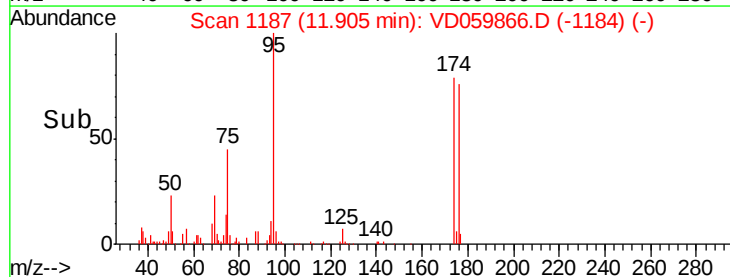
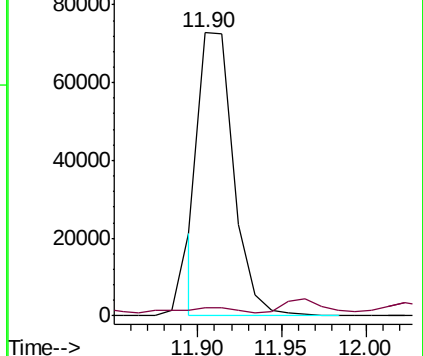
75 100

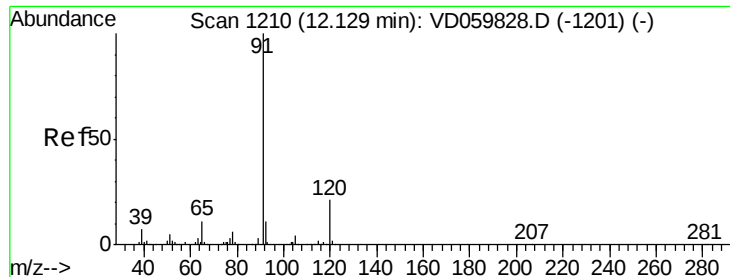
77 3.0 16.0 47.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

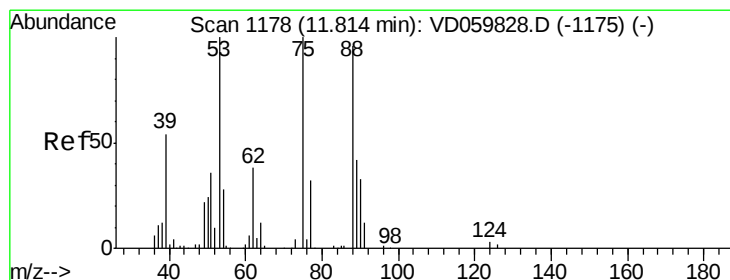
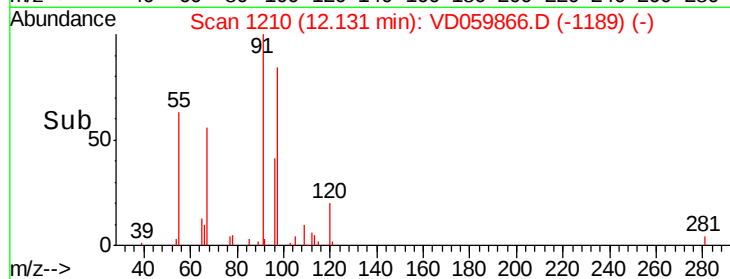
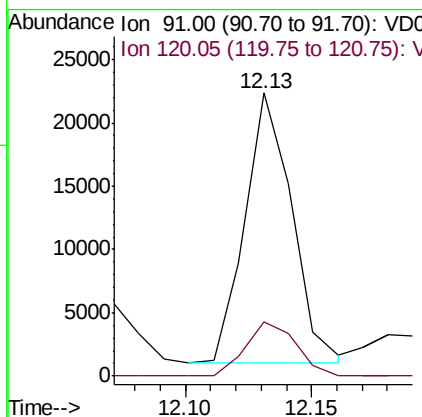
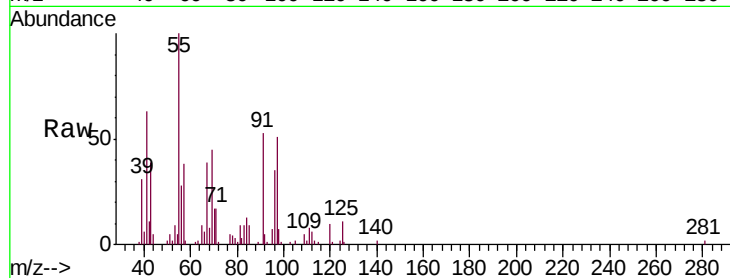




#78
n-propylbenzene
Concen: 1.360 ug/l
RT: 12.13 min Scan# 1210
Delta R.T. 0.00 min
Lab File: VD059866.D
Acq: 21 Aug 2018 20:09

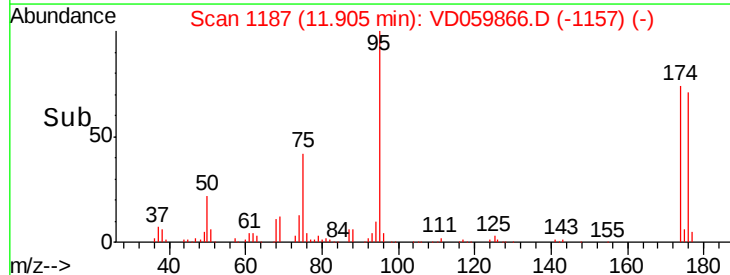
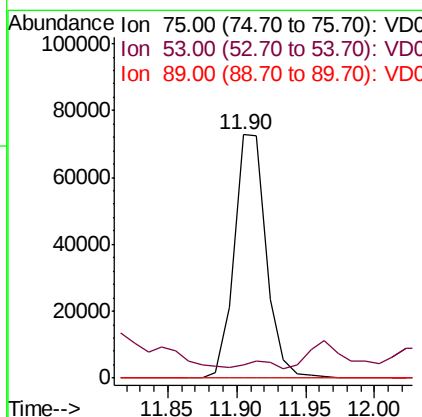
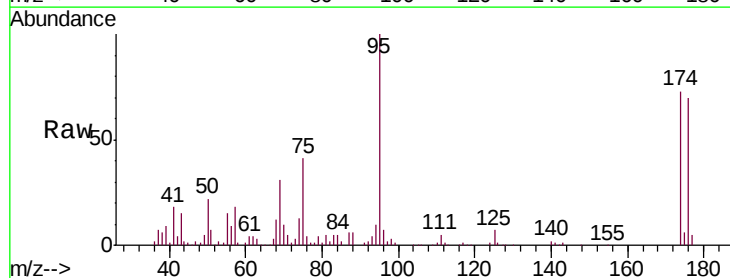
Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-049

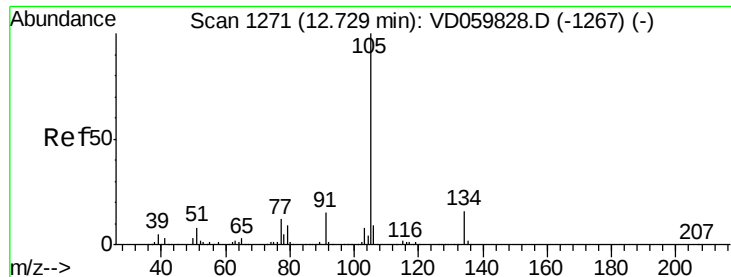
Tgt Ion: 91 Resp: 27433
Ion Ratio Lower Upper
91 100
120 19.3 10.5 31.5



#81
trans-1,4-Dichloro-2-butene
Concen: 95.714 ug/l
RT: 11.90 min Scan# 1187
Delta R.T. 0.09 min
Lab File: VD059866.D
Acq: 21 Aug 2018 20:09

Tgt Ion: 75 Resp: 117963
Ion Ratio Lower Upper
75 100
53 5.6 80.7 121.1#
89 0.0 33.9 50.9#

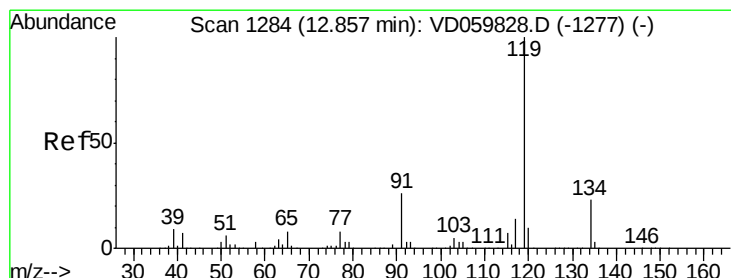
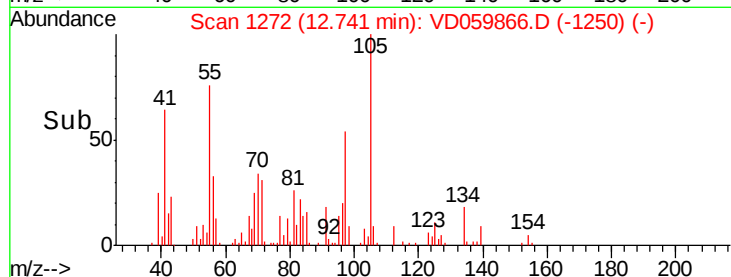
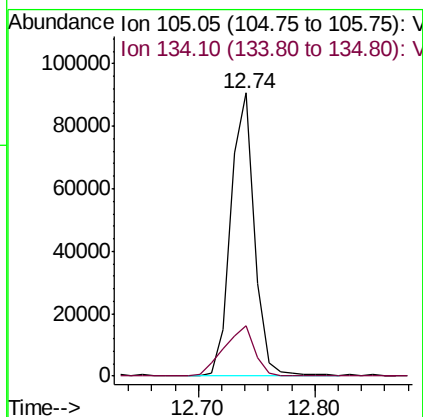
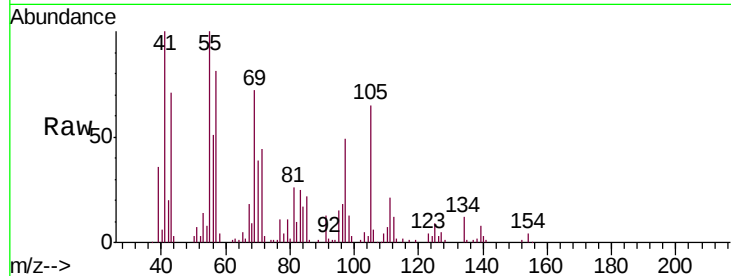




#85
 sec-Butylbenzene
 Concen: 7.498 ug/l
 RT: 12.74 min Scan# 1272
 Delta R.T. 0.01 min
 Lab File: VD059866.D
 Acq: 21 Aug 2018 20:09

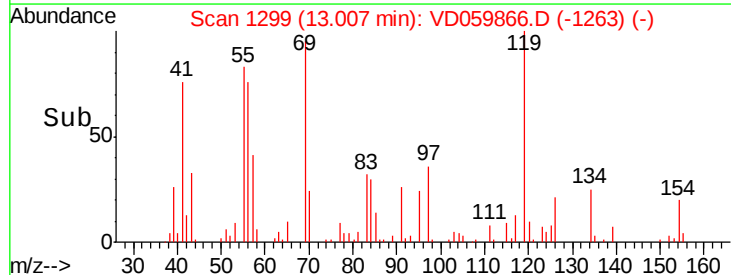
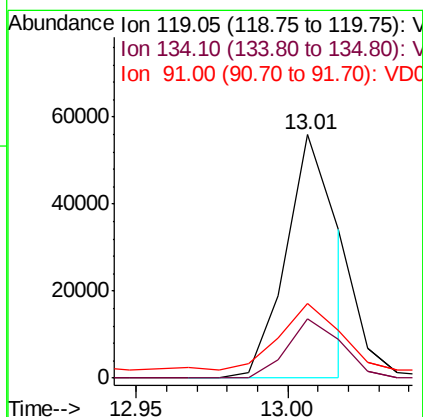
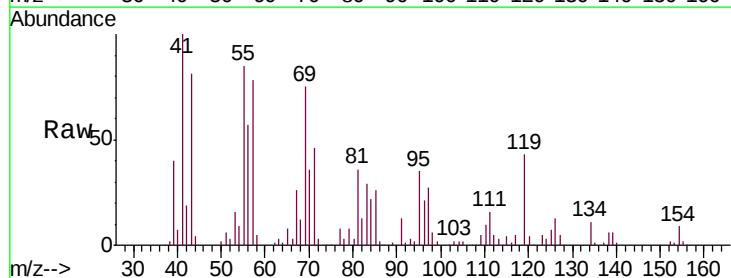
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-WSW-20-049

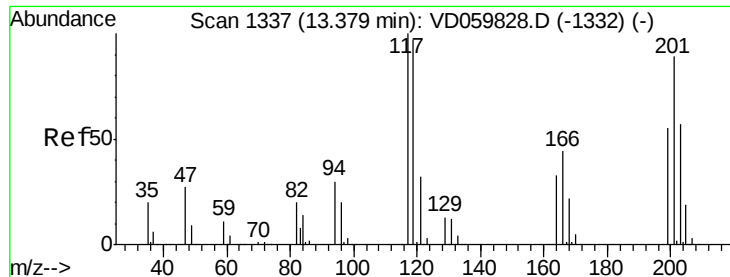
Tgt Ion:105 Resp: 127401
 Ion Ratio Lower Upper
 105 100
 134 17.7 7.8 23.5



#86
 p-Isopropyltoluene
 Concen: 4.881 ug/l
 RT: 13.01 min Scan# 1299
 Delta R.T. 0.15 min
 Lab File: VD059866.D
 Acq: 21 Aug 2018 20:09

Tgt Ion:119 Resp: 65053
 Ion Ratio Lower Upper
 119 100
 134 24.6 11.5 34.5
 91 30.8 13.2 39.6

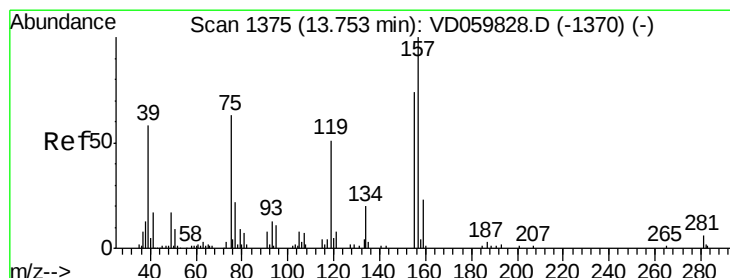
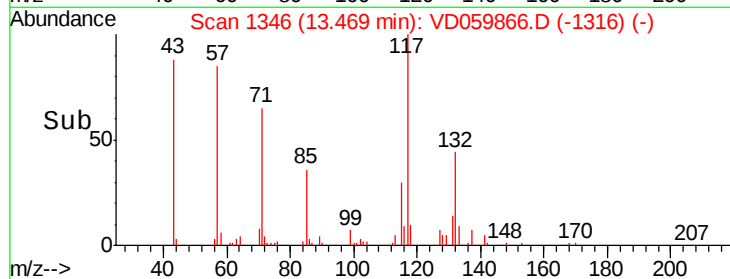
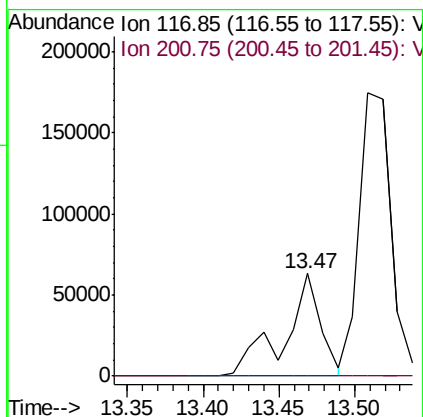
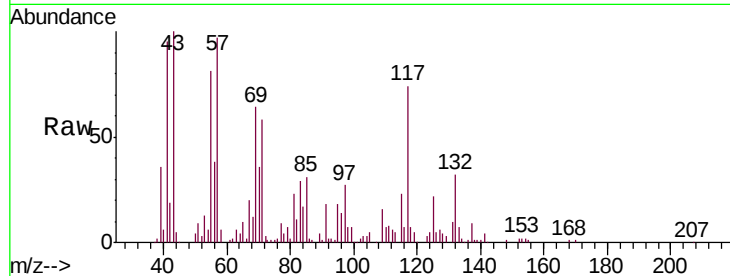




#90
Hexachloroethane
Concen: 28.105 ug/l
RT: 13.47 min Scan# 1346
Delta R.T. 0.09 min
Lab File: VD059866.D
Acq: 21 Aug 2018 20:09

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-WSW-20-049

Tgt Ion:117 Resp: 106875
Ion Ratio Lower Upper
117 100
201 0.0 44.6 134.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.609 ug/l
RT: 13.73 min Scan# 1372
Delta R.T. -0.03 min
Lab File: VD059866.D
Acq: 21 Aug 2018 20:09

Tgt Ion: 75 Resp: 3196
Ion Ratio Lower Upper
75 100
155 30.3 59.1 177.3#
157 0.0 79.7 238.9#

