

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW012119\
 Data File : VW008378.D
 Acq On : 21 Jan 2019 16:33
 Operator : SY/VA
 Sample : K1009-05
 Misc : 6.77G/5ML/MSVOA_W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 CL-01-011819-C

Quant Time: Jan 22 03:42:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W011719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 18 00:57:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	86823	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	166764	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	151778	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	56631	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	58145	64.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	128.76%	
35) Dibromofluoromethane	7.88	113	54202	50.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.84%	
50) Toluene-d8	10.32	98	220081	52.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.26%	
62) 4-Bromofluorobenzene	12.62	95	64612	43.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.16%	

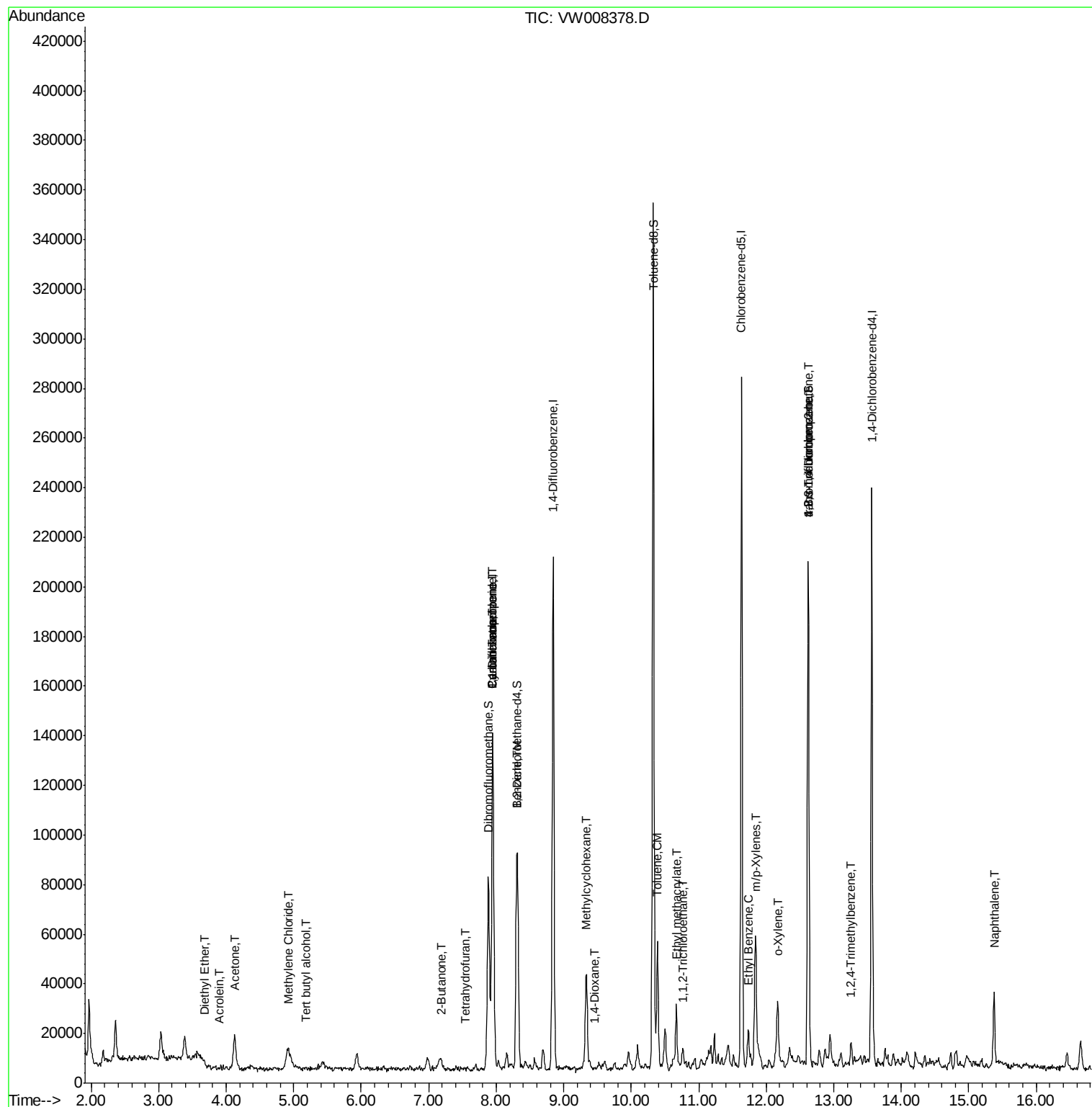
Target Compounds						Qvalue
8) Diethyl Ether	3.68	74	1531	2.935	ug/l	83
11) Tert butyl alcohol	5.18	59	254	4.177	ug/l #	15
13) Acrolein	3.89	56	131	9.786	ug/l #	50
16) Acetone	4.12	43	23490	111.992	ug/l	97
20) Methylene Chloride	4.91	84	5858	2.659	ug/l	91
25) 2-Butanone	7.19	43	5406	20.123	ug/l	99
29) Tetrahydrofuran	7.54	42	604	3.606	ug/l #	79
31) Cyclohexane	7.95	56	9213	5.462	ug/l #	80
36) 1,1-Dichloropropene	7.95	75	7935	4.729	ug/l #	53
38) Carbon Tetrachloride	7.95	117	9311	5.620	ug/l #	21
39) Methylcyclohexane	9.34	83	14620	7.326	ug/l #	87
40) Benzene	8.32	78	23476	4.940	ug/l	96
49) 1,4-Dioxane	9.46	88	51	5.149	ug/l #	1
52) Toluene	10.38	92	22387	7.443	ug/l	95
55) 1,1,2-Trichloroethane	10.76	97	2889	3.385	ug/l #	27
56) Ethyl methacrylate	10.66	69	2617	2.611	ug/l #	1
67) Ethyl Benzene	11.73	91	7877	1.370	ug/l	95
68) m/p-Xylenes	11.84	106	14912	6.683	ug/l	99
69) o-Xylene	12.17	106	6772	3.249	ug/l	100
76) 1,2,3-Trichloropropane	12.62	75	34316	66.541	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	34316	158.795	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.26	105	5101	1.454	ug/l	97
95) Naphthalene	15.38	128	26125	13.788	ug/l #	95

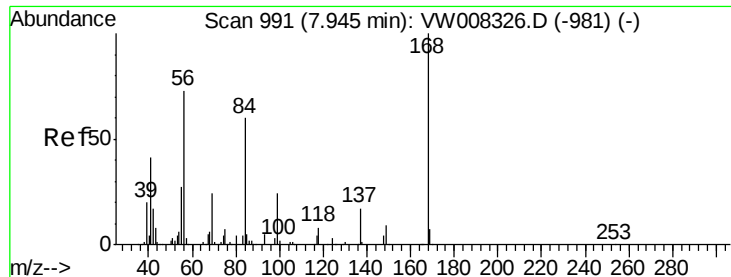
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jan 18 00:57:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW008378.D

Acq: 21 Jan 2019 16:33

Instrument :

MSVOA_W

ClientSampleId :

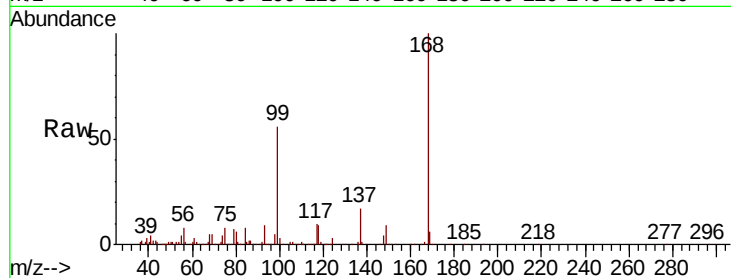
CL-01-011819-C

Tgt Ion:168 Resp: 86823

Ion Ratio Lower Upper

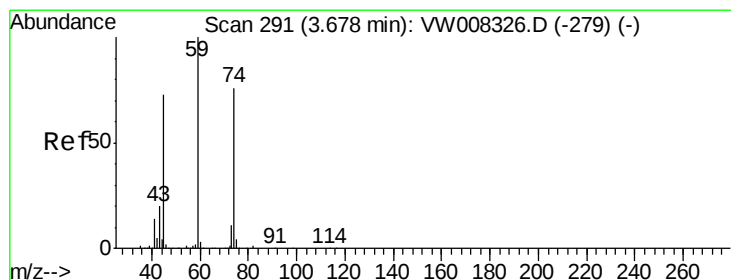
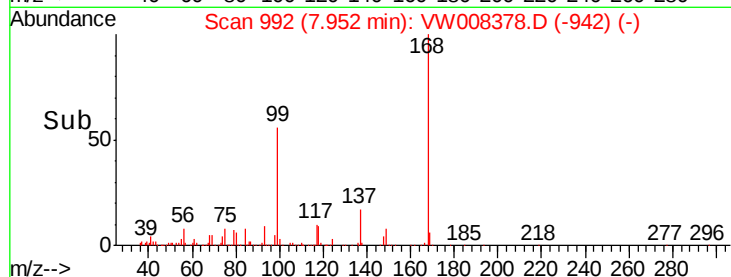
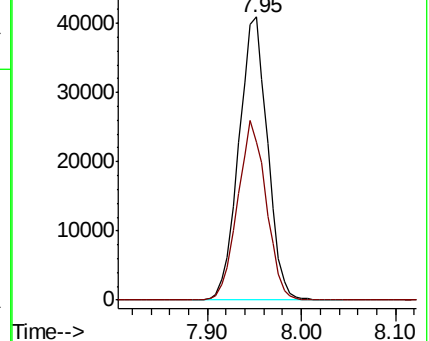
168 100

99 55.8 44.6 66.8



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 2.935 ug/l

RT: 3.68 min Scan# 291

Delta R.T. 0.00 min

Lab File: VW008378.D

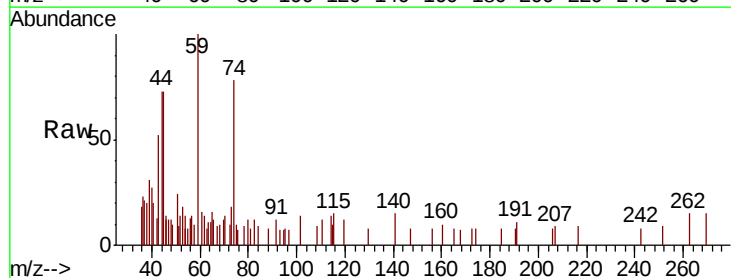
Acq: 21 Jan 2019 16:33

Tgt Ion: 74 Resp: 1531

Ion Ratio Lower Upper

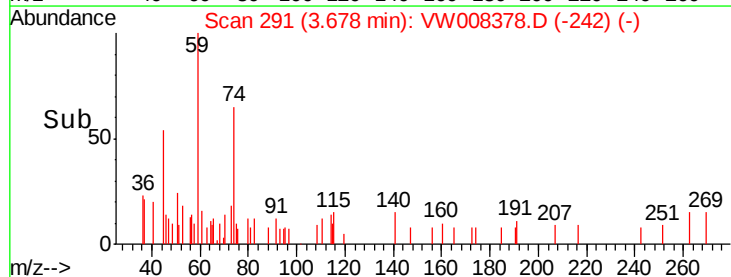
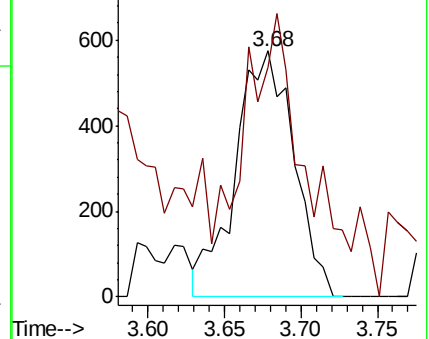
74 100

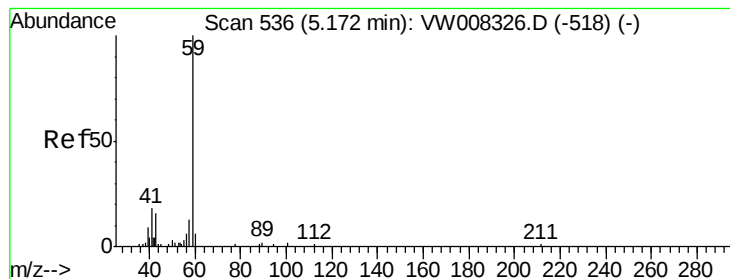
45 117.0 50.1 150.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



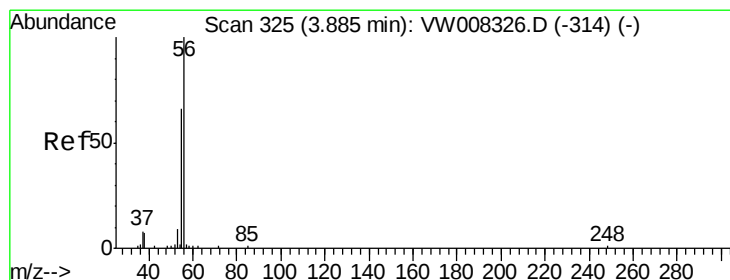
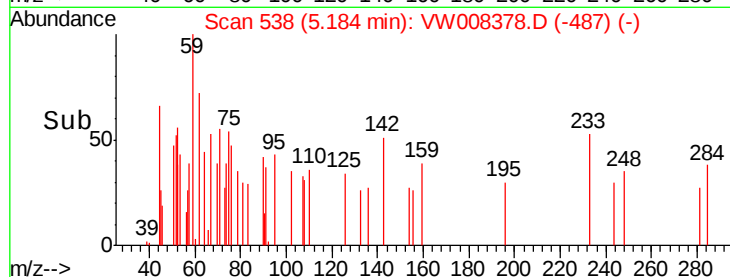
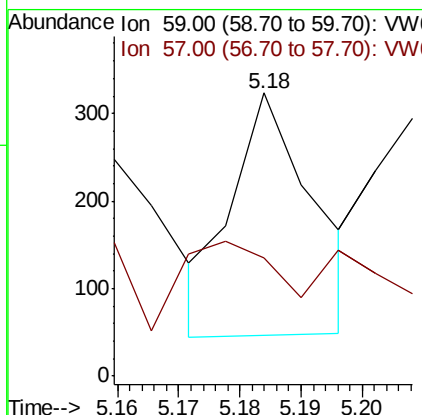
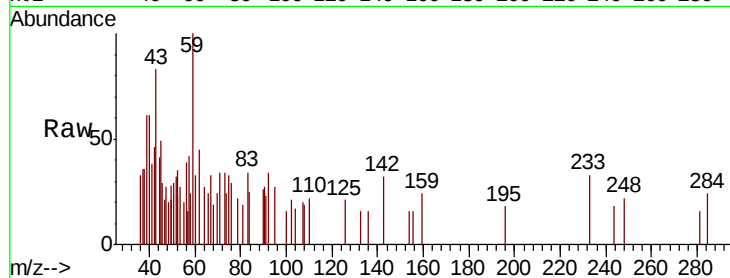


#11

Tert butyl alcohol
 Concen: 4.177 ug/l
 RT: 5.18 min Scan# 538
 Delta R.T. 0.01 min
 Lab File: VW008378.D
 Acq: 21 Jan 2019 16:33

Instrument :
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 CL-01-011819-C

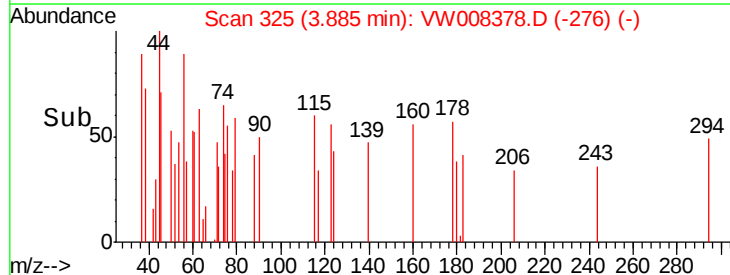
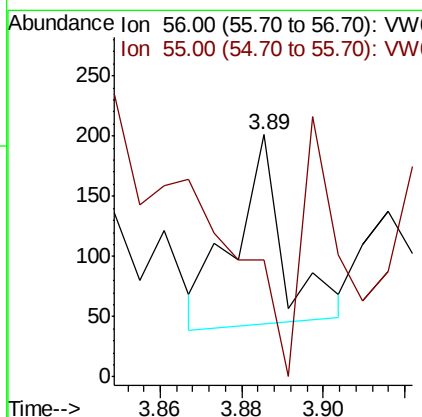
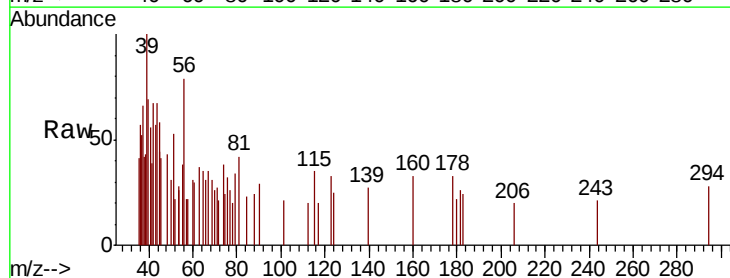
Tgt Ion: 59 Resp: 254
 Ion Ratio Lower Upper
 59 100
 57 44.5 9.4 14.2#

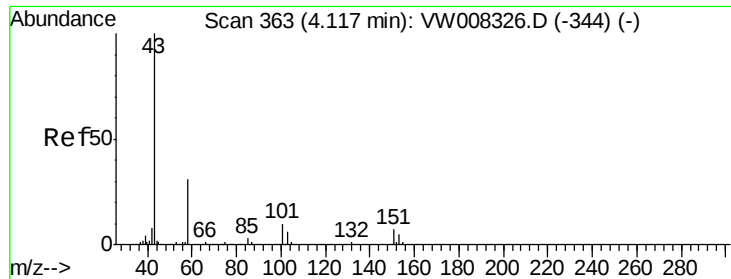


#13

Acrolein
 Concen: 9.786 ug/l
 RT: 3.89 min Scan# 325
 Delta R.T. 0.00 min
 Lab File: VW008378.D
 Acq: 21 Jan 2019 16:33

Tgt Ion: 56 Resp: 131
 Ion Ratio Lower Upper
 56 100
 55 106.1 52.9 79.3#

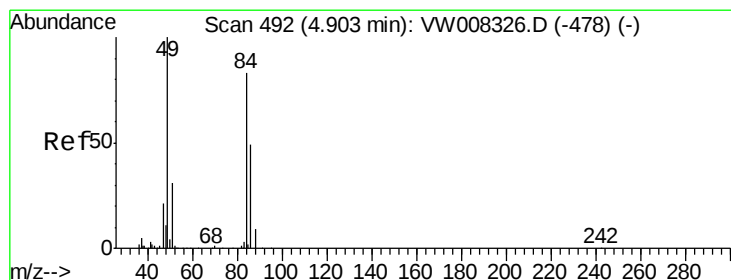
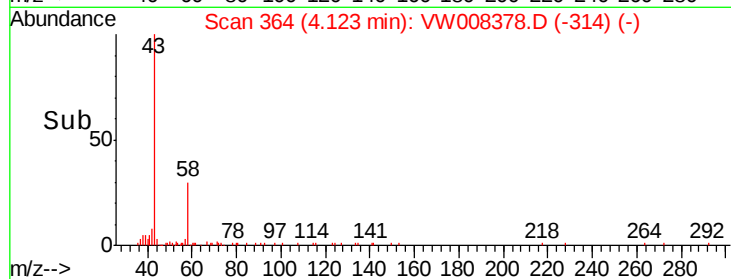
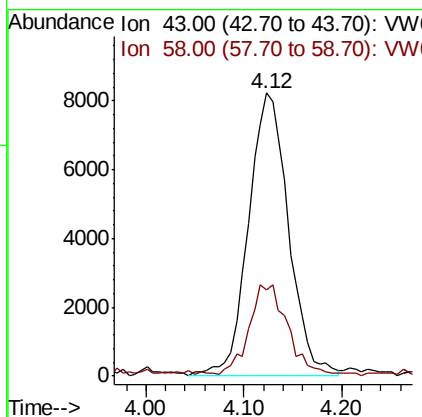
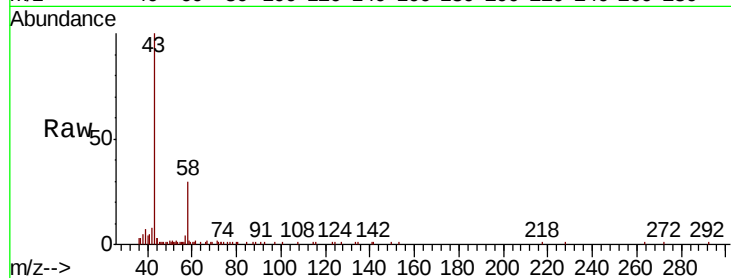




#16
Acetone
Concen: 111.992 ug/l
RT: 4.12 min Scan# 364
Delta R.T. 0.01 min
Lab File: VW008378.D
Acq: 21 Jan 2019 16:33

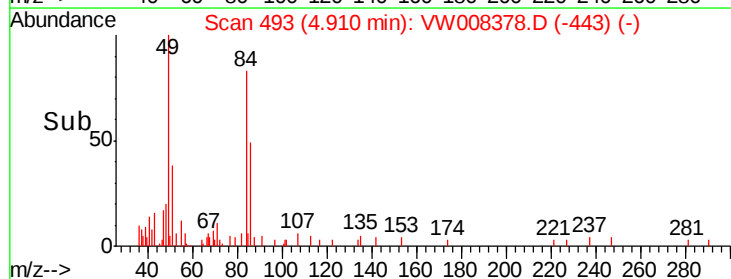
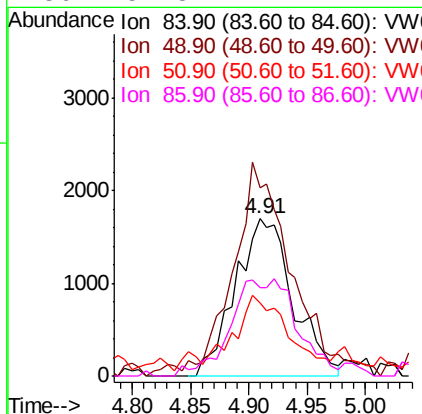
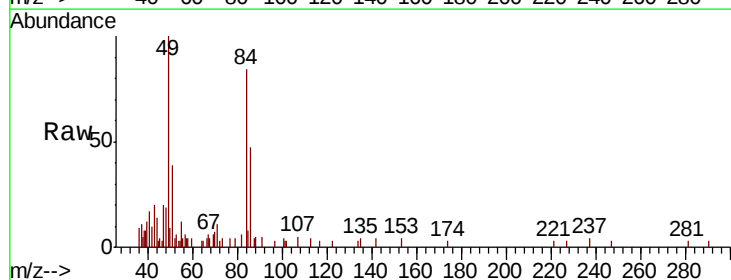
Instrument :
MSVOA_W
ClientSampleId :
CL-01-011819-C

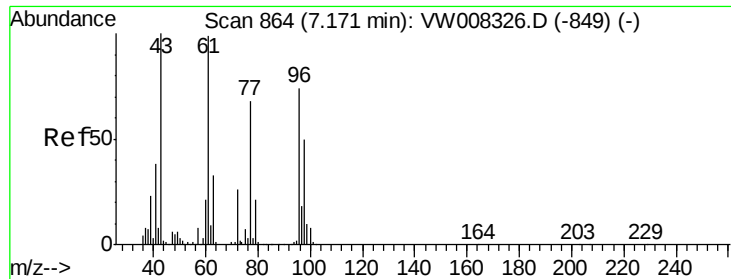
Tgt Ion: 43 Resp: 23490
Ion Ratio Lower Upper
43 100
58 29.0 24.7 37.1



#20
Methylene Chloride
Concen: 2.659 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.01 min
Lab File: VW008378.D
Acq: 21 Jan 2019 16:33

Tgt Ion: 84 Resp: 5858
Ion Ratio Lower Upper
84 100
49 109.7 95.9 143.9
51 31.3 29.3 43.9
86 51.8 47.4 71.2

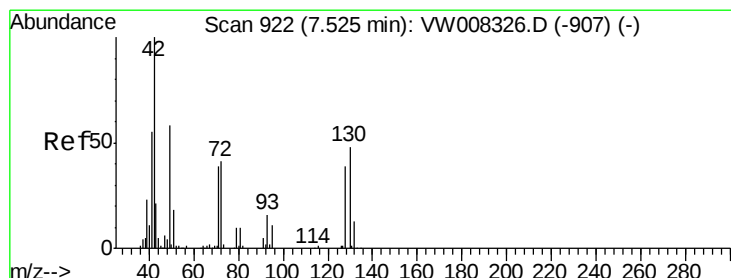
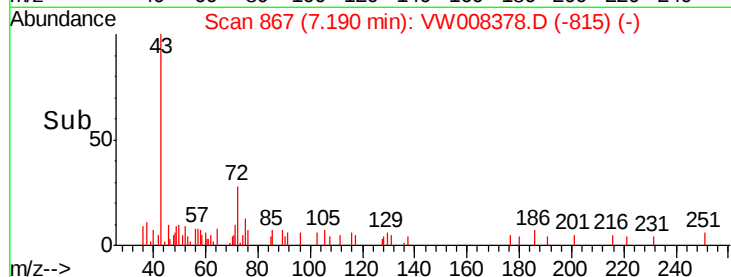
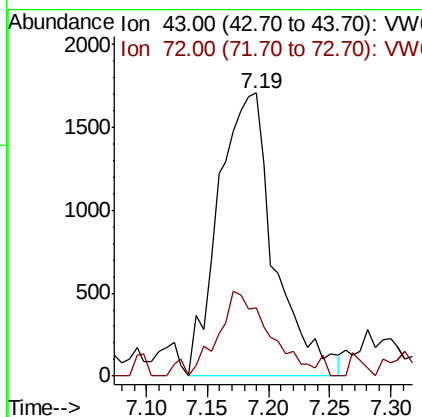
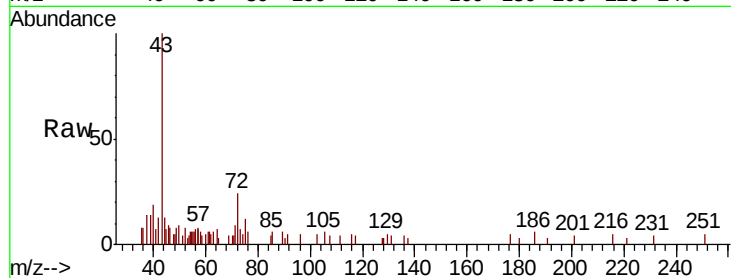




#25
2-Butanone
Concen: 20.123 ug/l
RT: 7.19 min Scan# 867
Delta R.T. 0.02 min
Lab File: VW008378.D
Acq: 21 Jan 2019 16:33

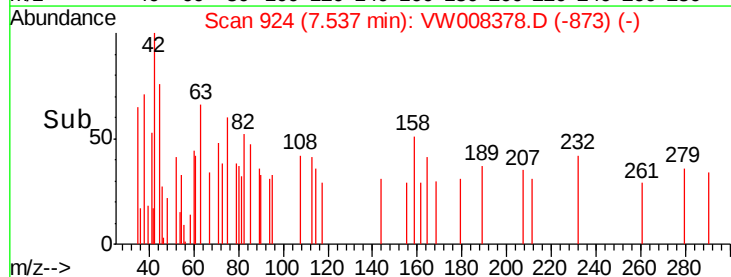
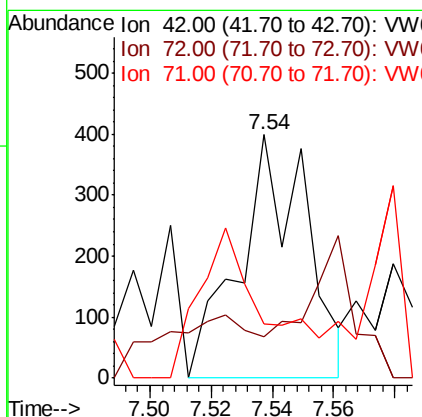
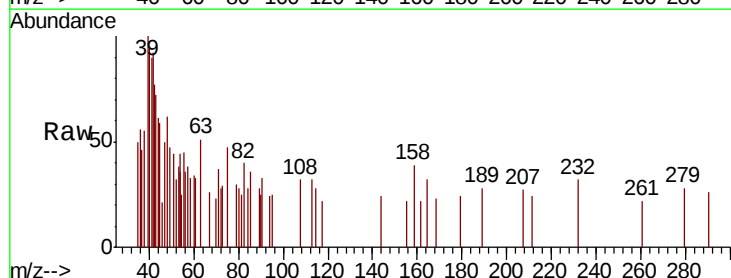
Instrument :
MSVOA_W
ClientSampleId :
CL-01-011819-C

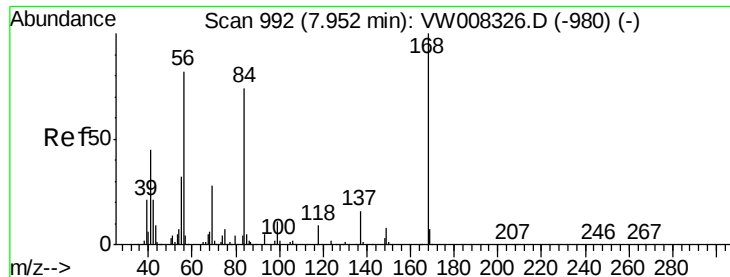
Tgt Ion: 43 Resp: 5406
Ion Ratio Lower Upper
43 100
72 25.9 21.2 31.8



#29
Tetrahydrofuran
Concen: 3.606 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW008378.D
Acq: 21 Jan 2019 16:33

Tgt Ion: 42 Resp: 604
Ion Ratio Lower Upper
42 100
72 36.9 34.0 51.0
71 61.4 32.0 48.0#

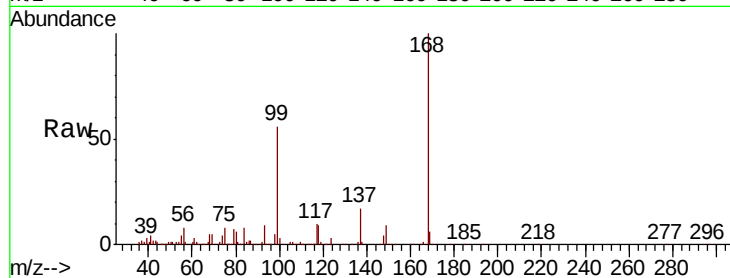




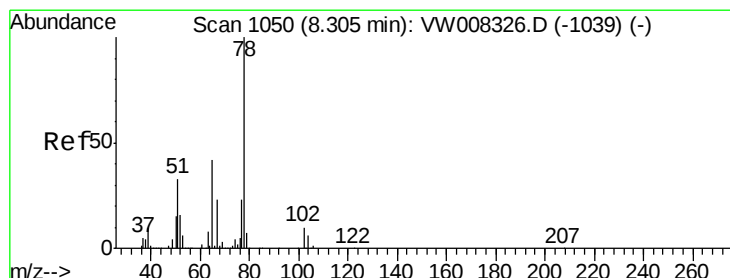
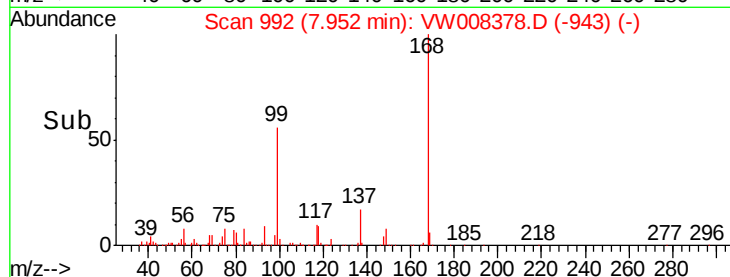
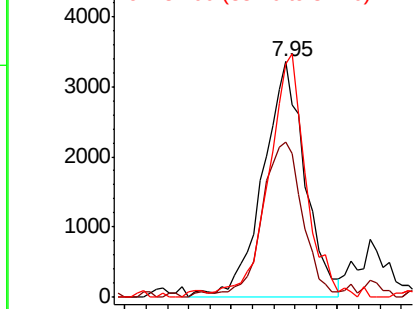
#31
Cyclohexane
Concen: 5.462 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW008378.D
Acq: 21 Jan 2019 16:33

Instrument :
MSVOA_W
ClientSampleId :
CL-01-011819-C

Tgt Ion: 56 Resp: 9213
Ion Ratio Lower Upper
56 100
69 65.9 27.0 40.6#
84 96.5 72.5 108.7

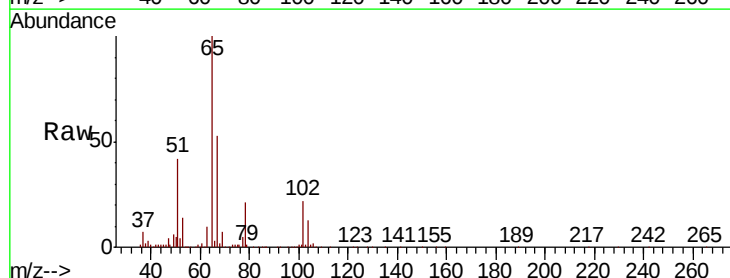


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

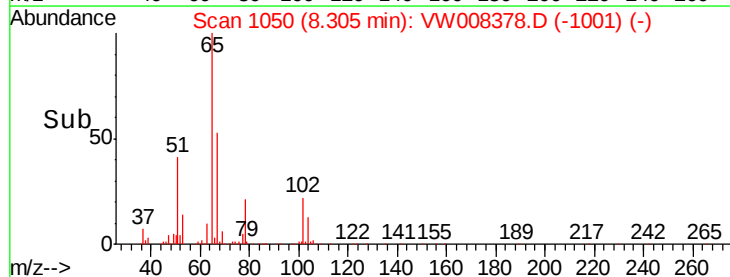
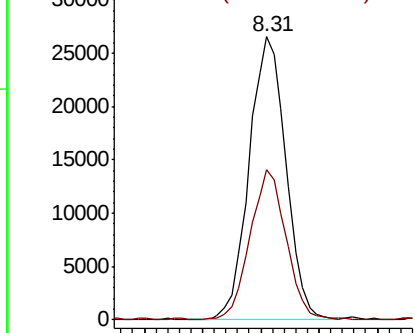


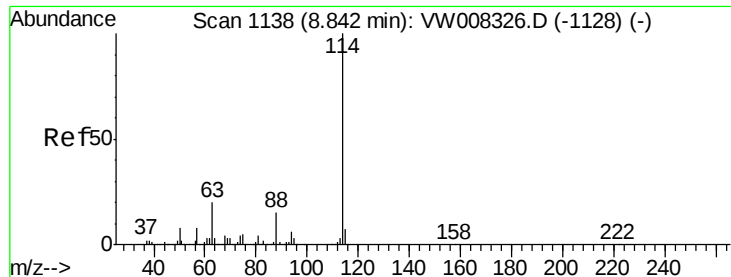
#33
1,2-Dichloroethane-d4
Concen: 64.380 ug/l
RT: 8.31 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VW008378.D
Acq: 21 Jan 2019 16:33

Tgt Ion: 65 Resp: 58145
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008378.D

Acq: 21 Jan 2019 16:33

Instrument :

MSVOA_W

ClientSampleId :

CL-01-011819-C

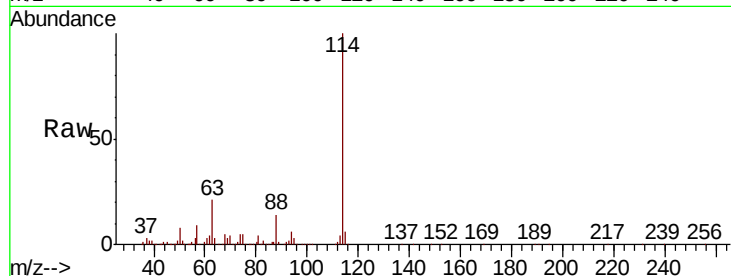
Tgt Ion:114 Resp: 166764

Ion Ratio Lower Upper

114 100

63 21.3 0.0 40.8

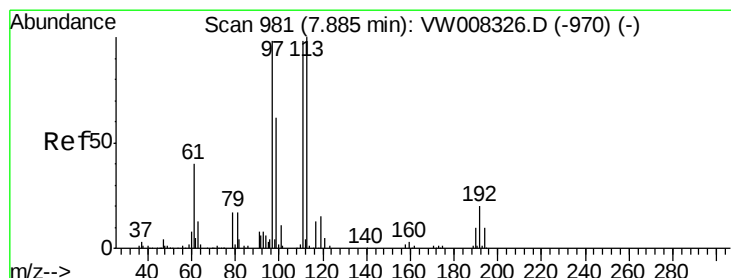
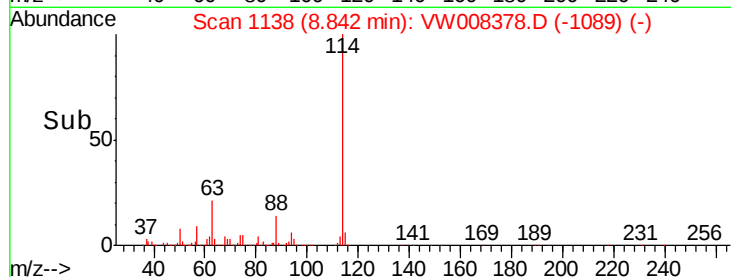
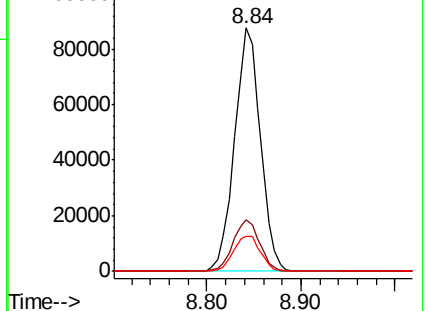
88 14.4 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 50.917 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008378.D

Acq: 21 Jan 2019 16:33

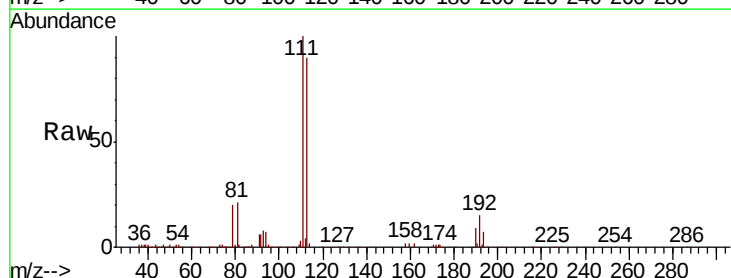
Tgt Ion:113 Resp: 54202

Ion Ratio Lower Upper

113 100

111 102.7 81.8 122.8

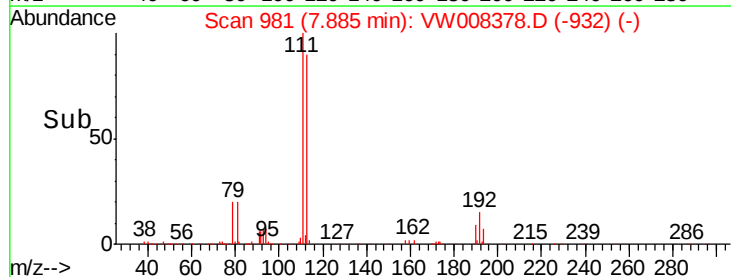
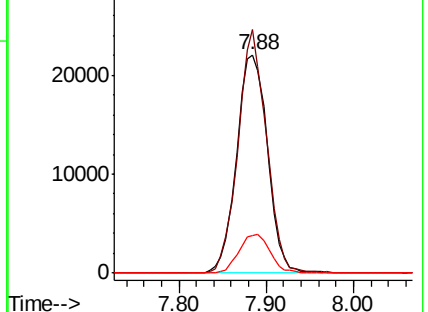
192 17.6 16.3 24.5

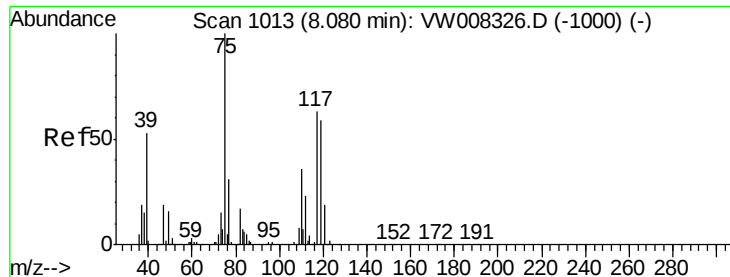


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

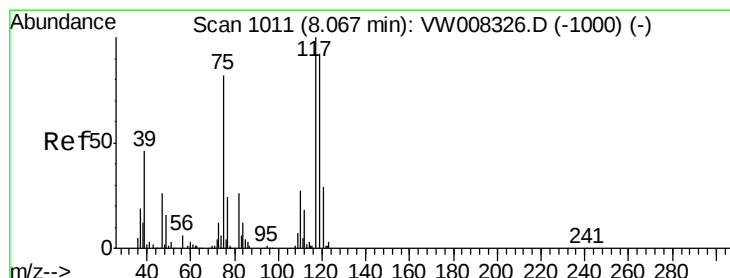
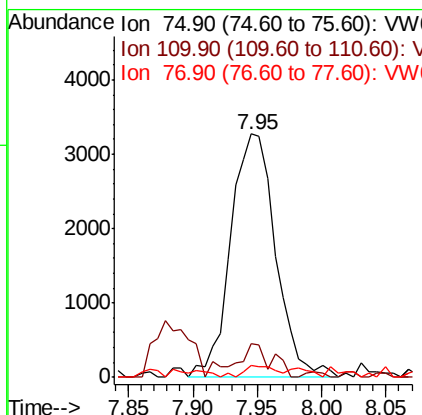
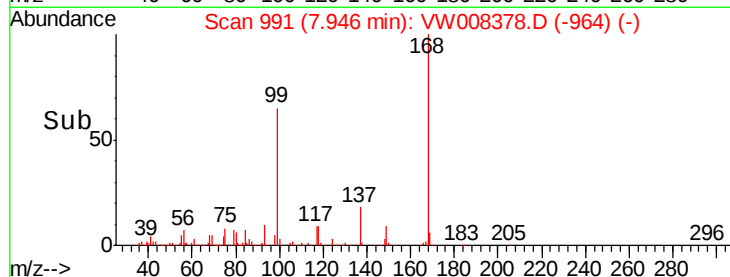
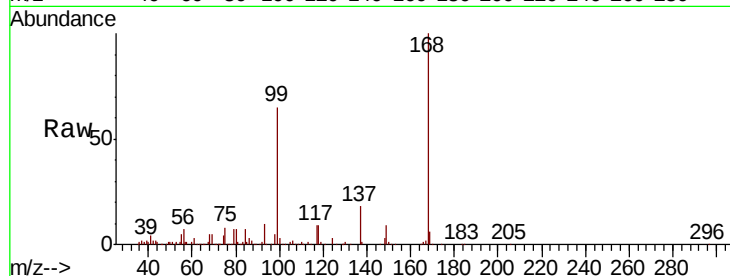




#36
 1,1-Dichloropropene
 Concen: 4.729 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW008378.D
 Acq: 21 Jan 2019 16:33

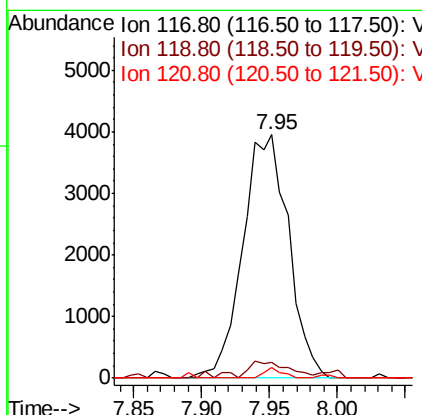
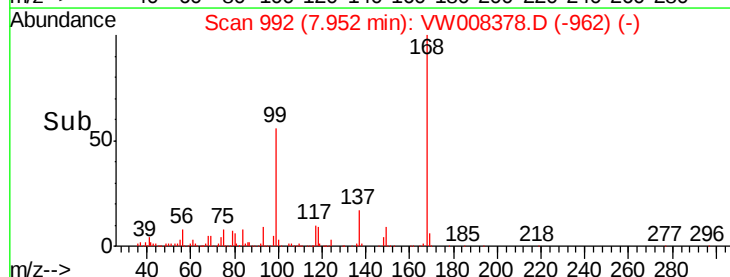
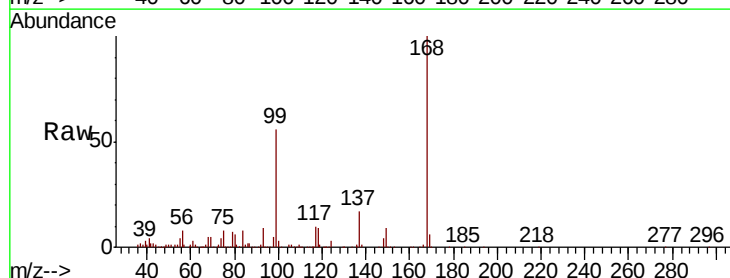
Instrument :
 MSVOA_W
 ClientSampleId :
 CL-01-011819-C

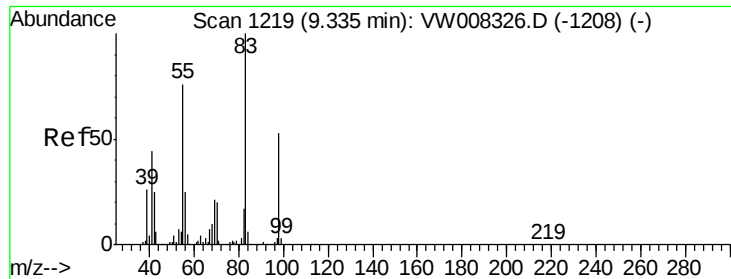
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.7	17.5	52.6#
77	3.4	25.0	37.6#



#38
 Carbon Tetrachloride
 Concen: 5.620 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW008378.D
 Acq: 21 Jan 2019 16:33

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.5	73.8	110.6#
121	4.2	23.4	35.0#

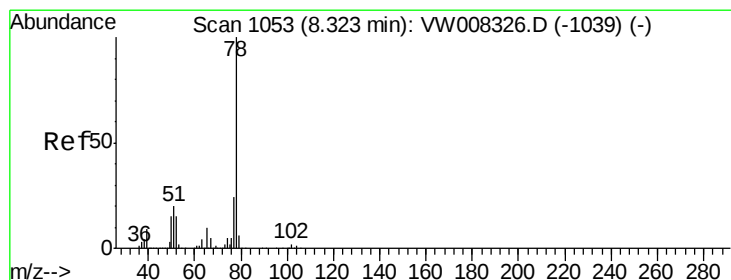
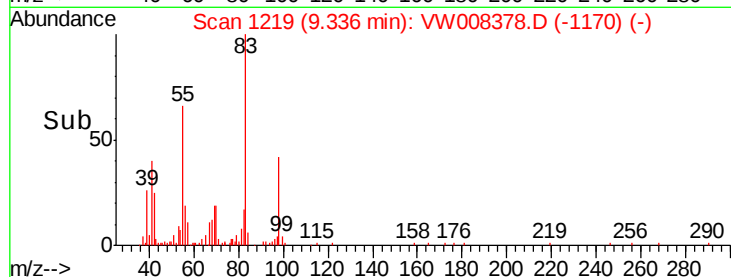
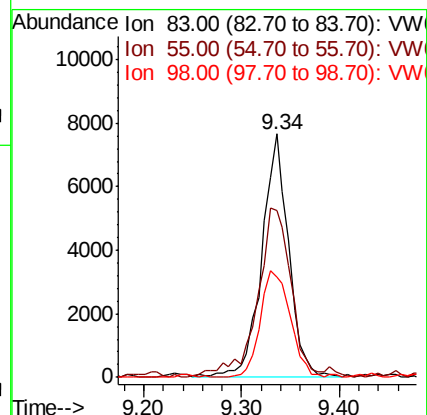
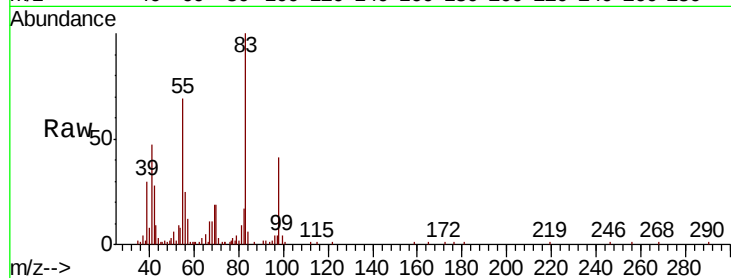




#39
Methylcyclohexane
Concen: 7.326 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW008378.D
Acq: 21 Jan 2019 16:33

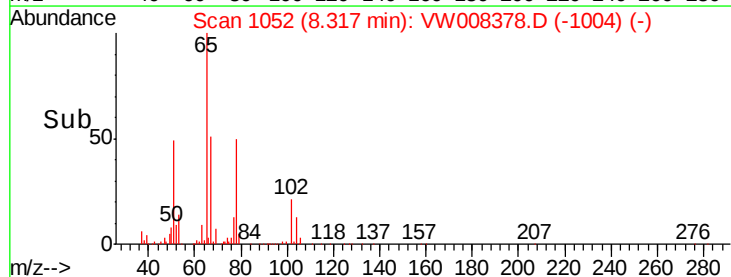
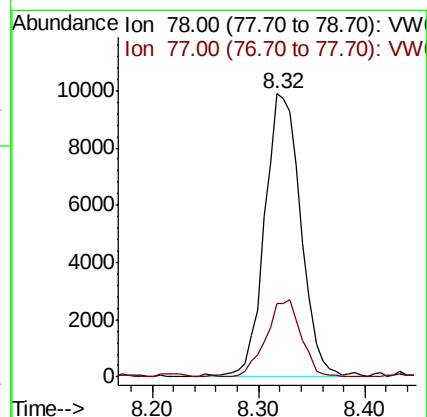
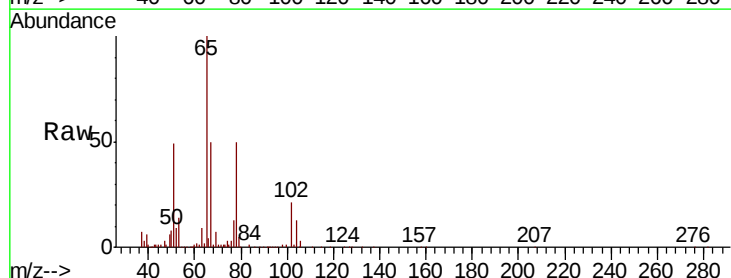
Instrument :
MSVOA_W
ClientSampleId :
CL-01-011819-C

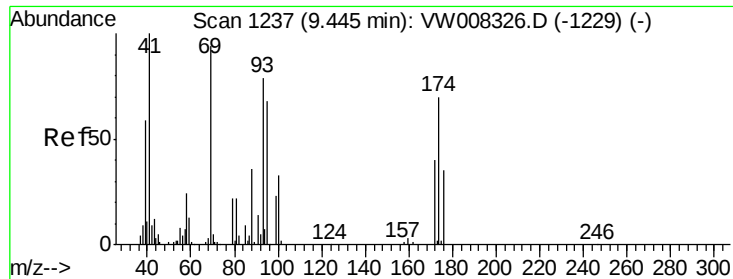
Tgt Ion: 83 Resp: 14620
Ion Ratio Lower Upper
83 100
55 67.3 61.1 91.7
98 41.1 42.5 63.7#



#40
Benzene
Concen: 4.940 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VW008378.D
Acq: 21 Jan 2019 16:33

Tgt Ion: 78 Resp: 23476
Ion Ratio Lower Upper
78 100
77 26.0 19.4 29.0

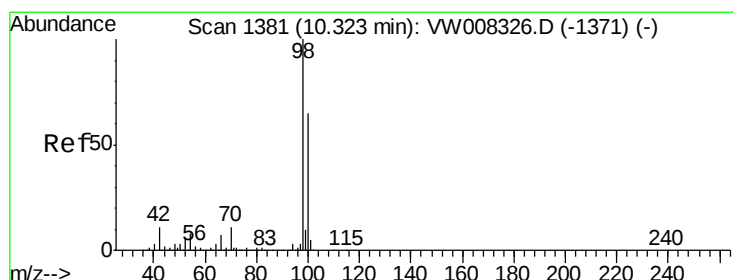
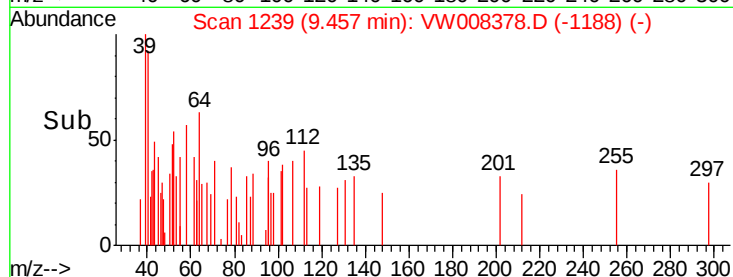
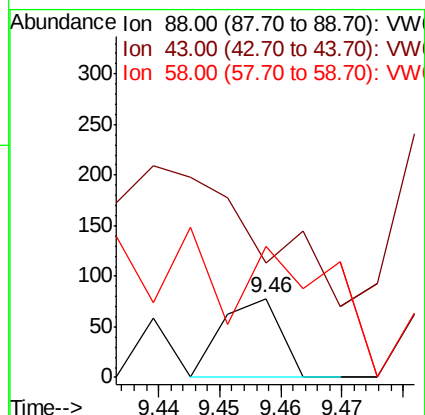
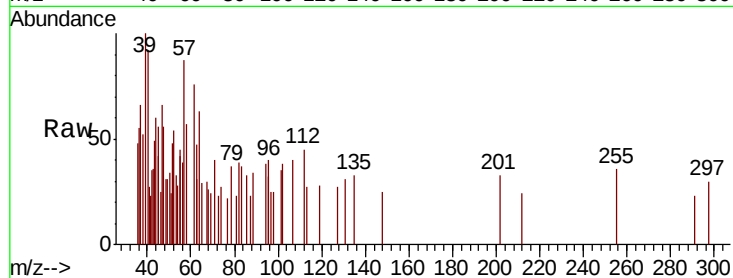




#49
1,4-Dioxane
Concen: 5.149 ug/l
RT: 9.46 min Scan# 1239
Delta R.T. 0.01 min
Lab File: VW008378.D
Acq: 21 Jan 2019 16:33

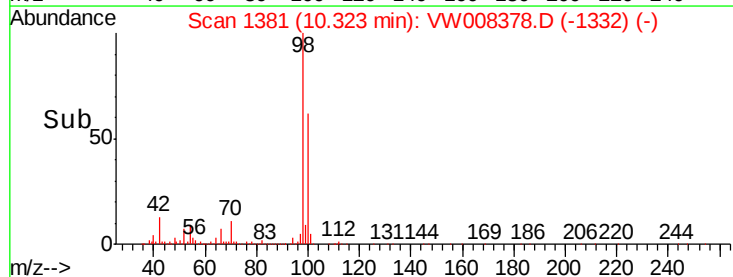
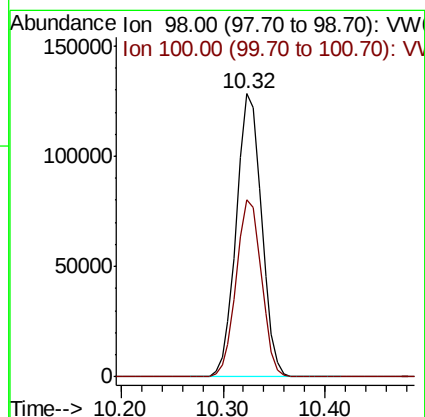
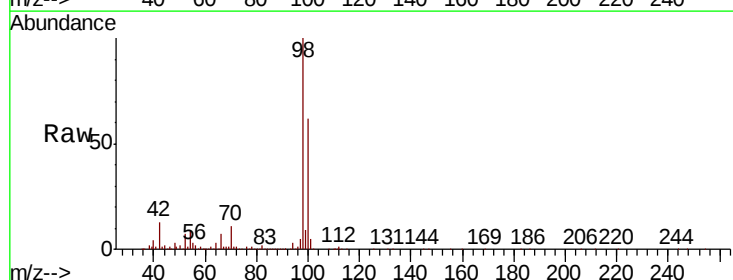
Instrument :
MSVOA_W
ClientSampleId :
CL-01-011819-C

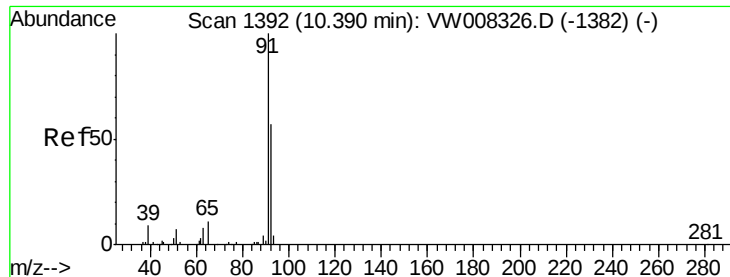
Tgt Ion: 88 Resp: 51
Ion Ratio Lower Upper
88 100
43 0.0 27.1 40.7#
58 298.0 57.9 86.9#



#50
Toluene-d8
Concen: 52.626 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008378.D
Acq: 21 Jan 2019 16:33

Tgt Ion: 98 Resp: 220081
Ion Ratio Lower Upper
98 100
100 62.6 51.8 77.8





#52

Toluene

Concen: 7.443 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW008378.D

Acq: 21 Jan 2019 16:33

Instrument :

MSVOA_W

ClientSampleId :

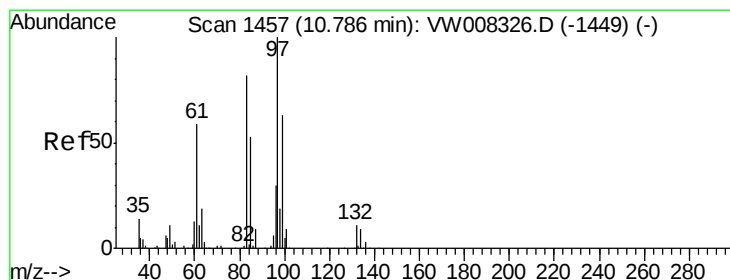
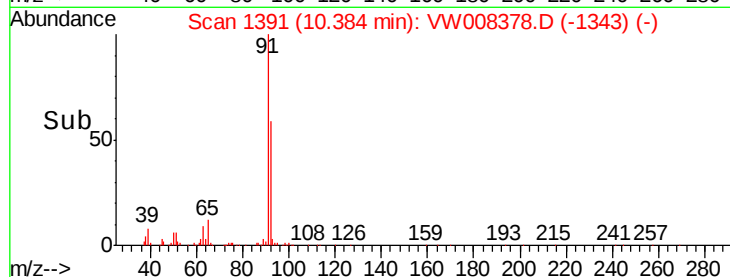
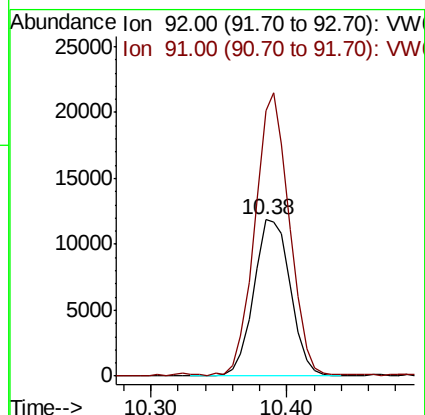
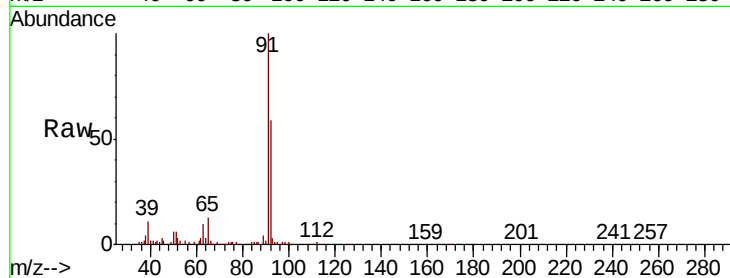
CL-01-011819-C

Tgt Ion: 92 Resp: 22387

Ion Ratio Lower Upper

92 100

91 168.8 140.2 210.2



#55

1,1,2-Trichloroethane

Concen: 3.385 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW008378.D

Acq: 21 Jan 2019 16:33

Tgt Ion: 97 Resp: 2889

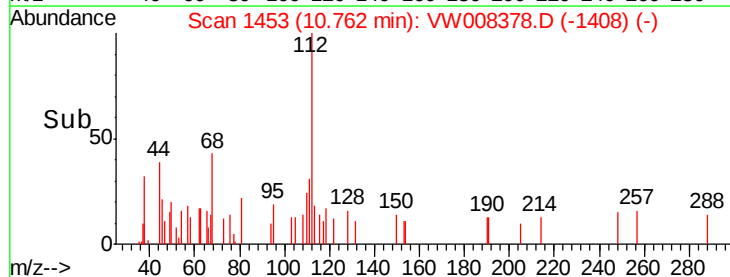
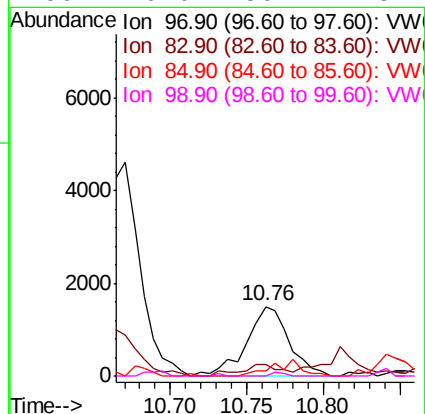
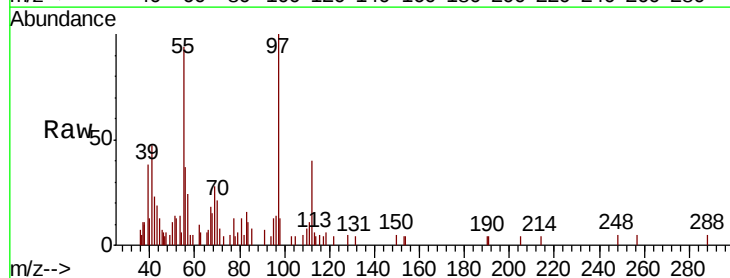
Ion Ratio Lower Upper

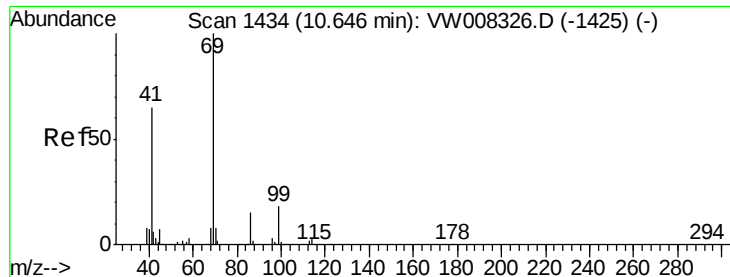
97 100

83 16.4 65.3 97.9#

85 8.1 42.6 64.0#

99 0.0 50.2 75.2#





#56

Ethyl methacrylate

Concen: 2.611 ug/l

RT: 10.66 min Scan# 1437

Delta R.T. 0.02 min

Lab File: VW008378.D

Acq: 21 Jan 2019 16:33

Instrument :

MSVOA_W

ClientSampleId :

CL-01-011819-C

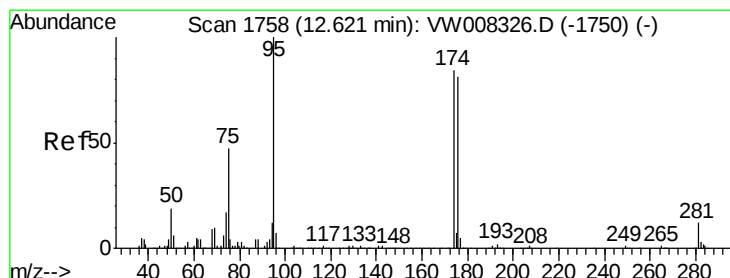
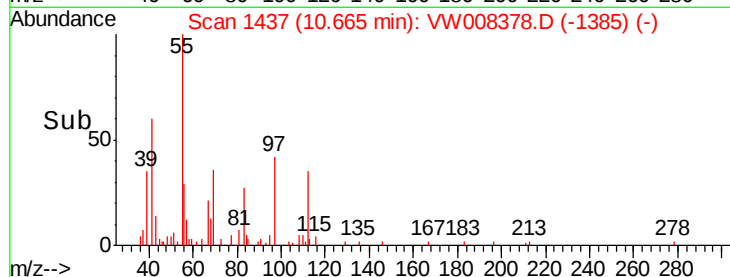
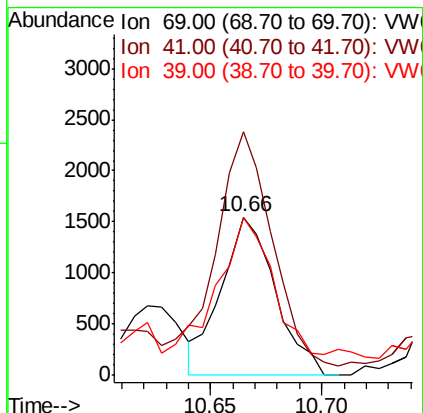
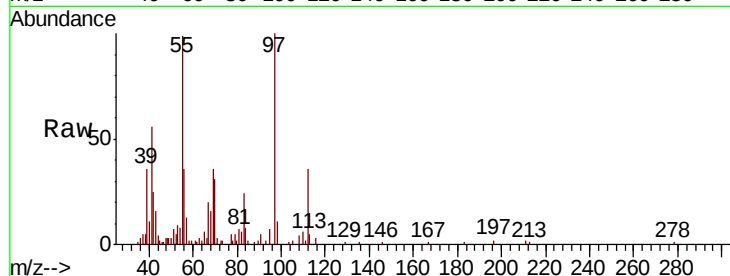
Tgt Ion: 69 Resp: 2617

Ion Ratio Lower Upper

69 100

41 154.1 52.9 79.3#

39 90.5 28.4 42.6#



#62

4-Bromofluorobenzene

Concen: 43.078 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008378.D

Acq: 21 Jan 2019 16:33

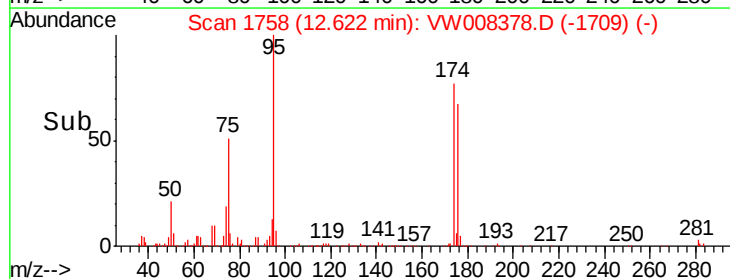
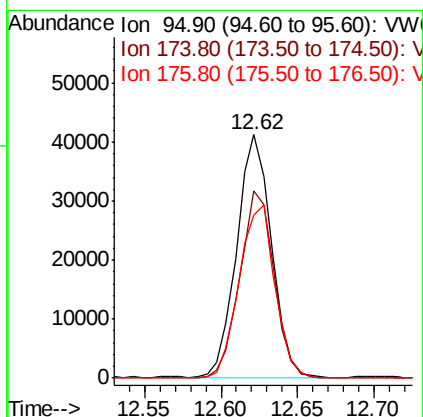
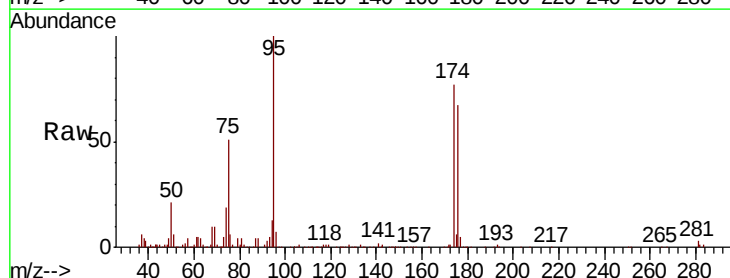
Tgt Ion: 95 Resp: 64612

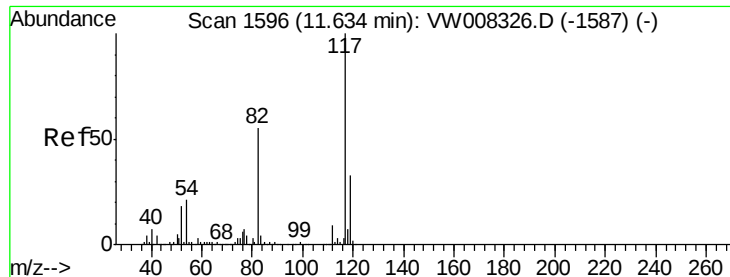
Ion Ratio Lower Upper

95 100

174 76.4 0.0 166.0

176 73.6 0.0 160.0

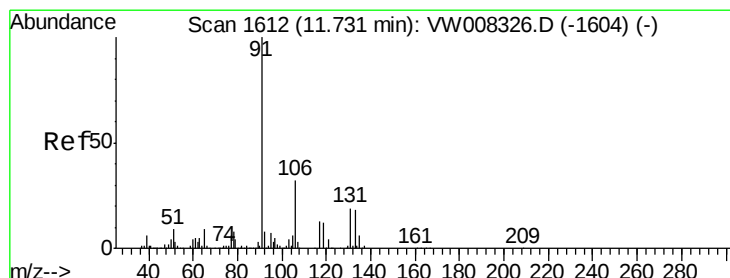
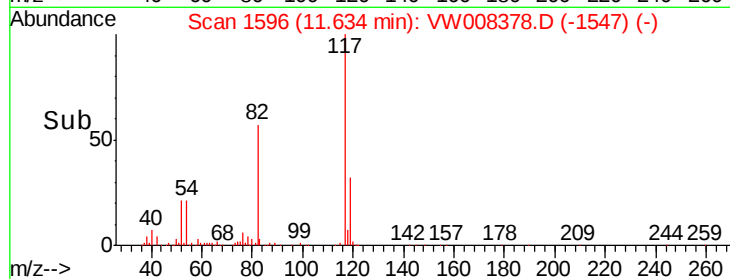
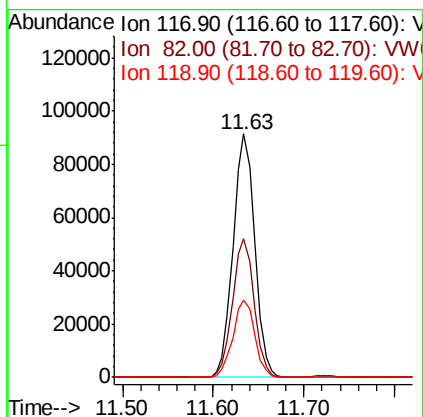
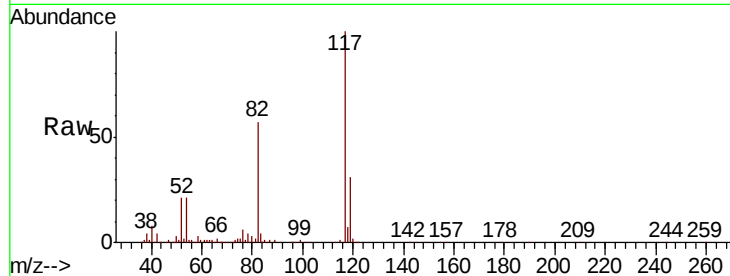




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008378.D
Acq: 21 Jan 2019 16:33

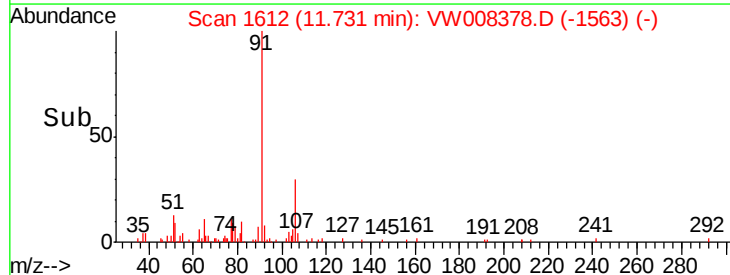
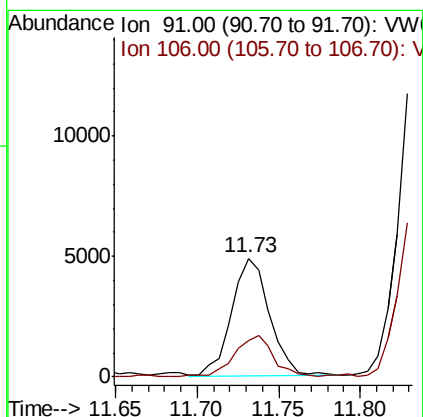
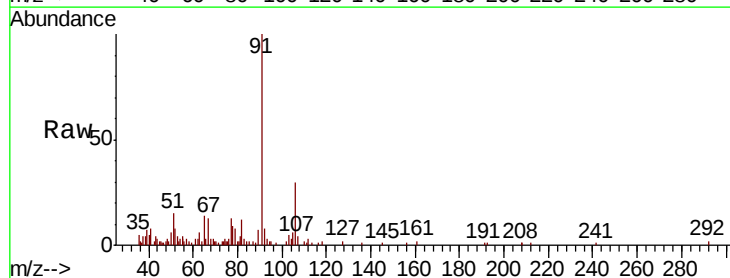
Instrument :
MSVOA_W
ClientSampleId :
CL-01-011819-C

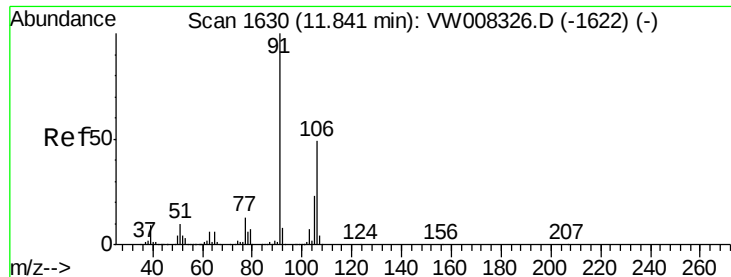
Tgt Ion:117 Resp: 151778
Ion Ratio Lower Upper
117 100
82 56.7 44.3 66.5
119 31.5 26.3 39.5



#67
Ethyl Benzene
Concen: 1.370 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW008378.D
Acq: 21 Jan 2019 16:33

Tgt Ion: 91 Resp: 7877
Ion Ratio Lower Upper
91 100
106 29.3 25.4 38.2

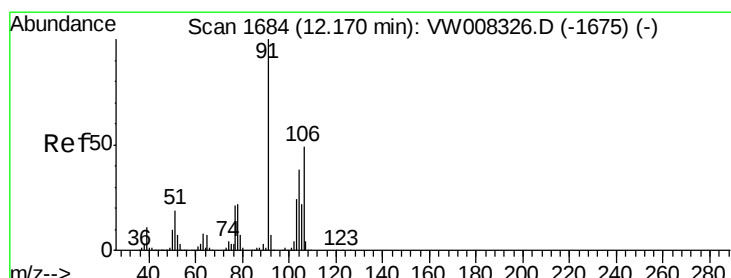
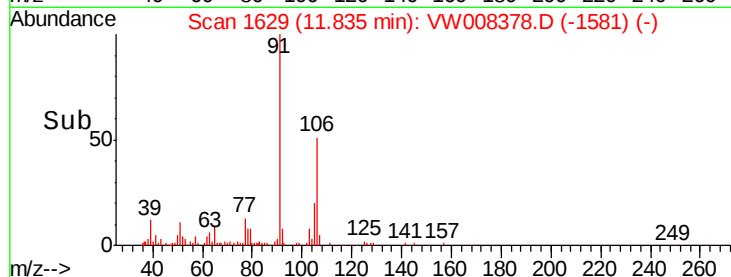
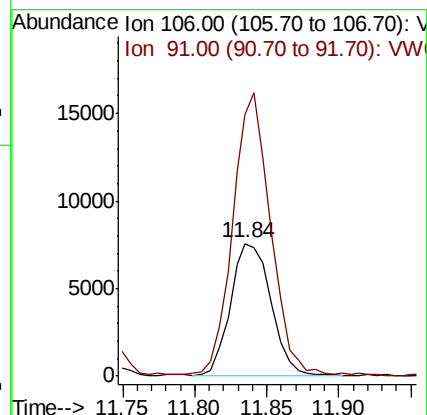
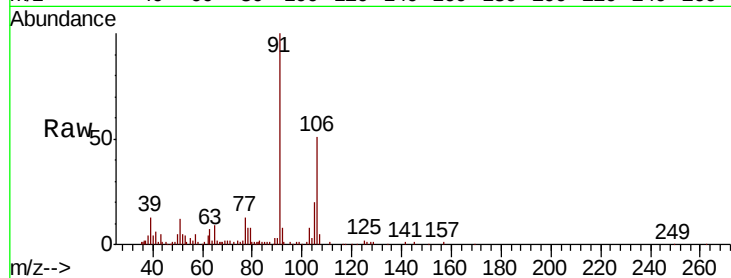




#68
m/p-Xylenes
Concen: 6.683 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW008378.D
Acq: 21 Jan 2019 16:33

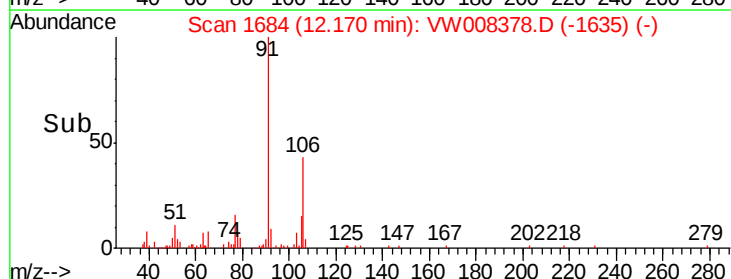
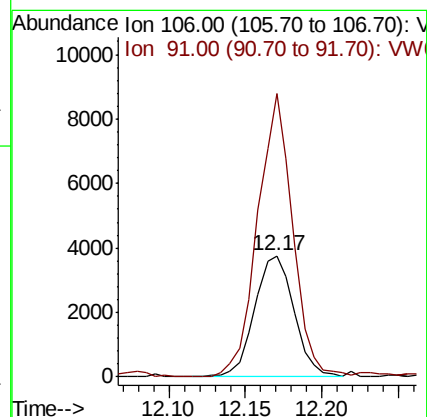
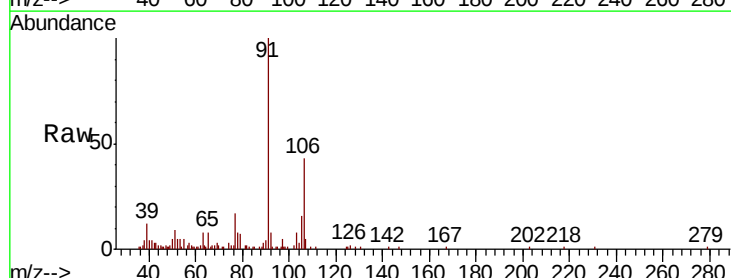
Instrument :
MSVOA_W
ClientSampleId :
CL-01-011819-C

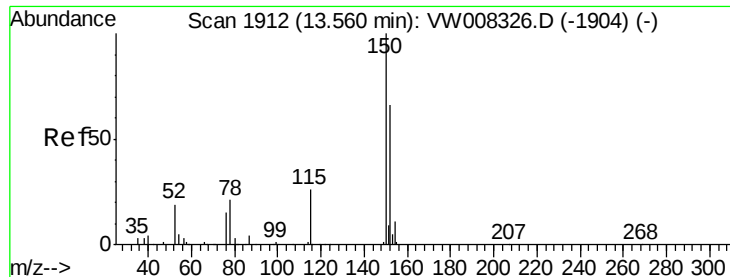
Tgt Ion:106 Resp: 14912
Ion Ratio Lower Upper
106 100
91 196.1 158.4 237.6



#69
o-Xylene
Concen: 3.249 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW008378.D
Acq: 21 Jan 2019 16:33

Tgt Ion:106 Resp: 6772
Ion Ratio Lower Upper
106 100
91 207.4 104.1 312.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.01 min

Lab File: VW008378.D

Acq: 21 Jan 2019 16:33

Instrument :

MSVOA_W

ClientSampleId :

CL-01-011819-C

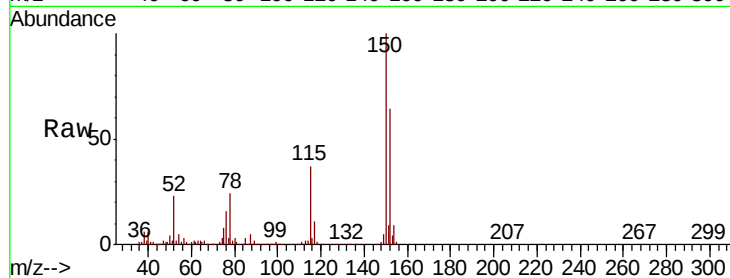
Tgt Ion:152 Resp: 56631

Ion Ratio Lower Upper

152 100

115 63.1 28.8 86.4

150 159.7 0.0 351.4

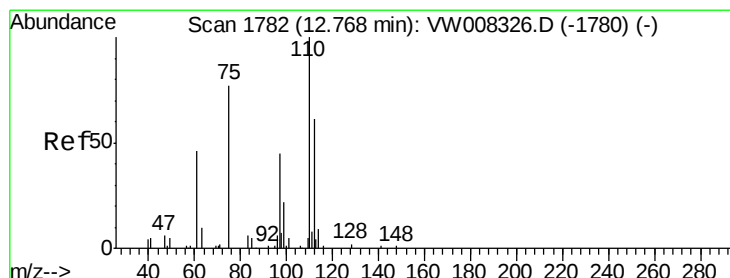
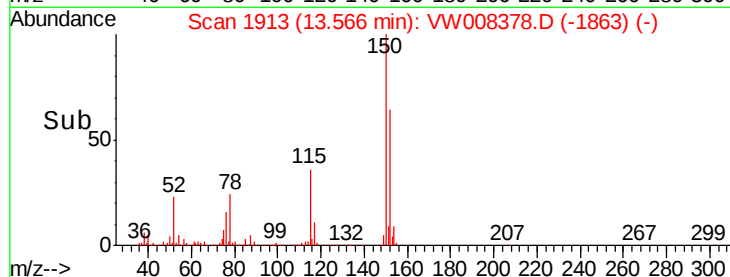
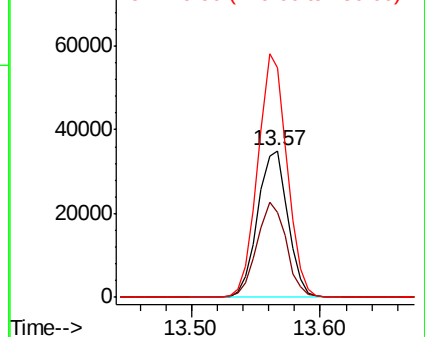


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 66.541 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008378.D

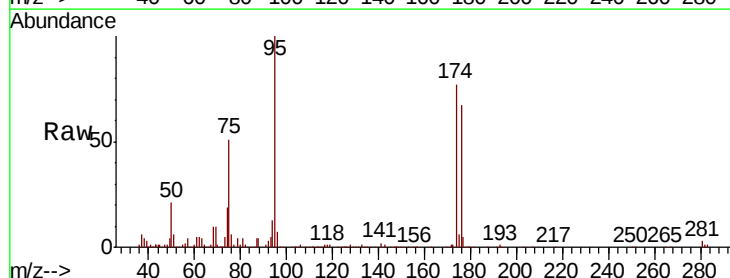
Acq: 21 Jan 2019 16:33

Tgt Ion: 75 Resp: 34316

Ion Ratio Lower Upper

75 100

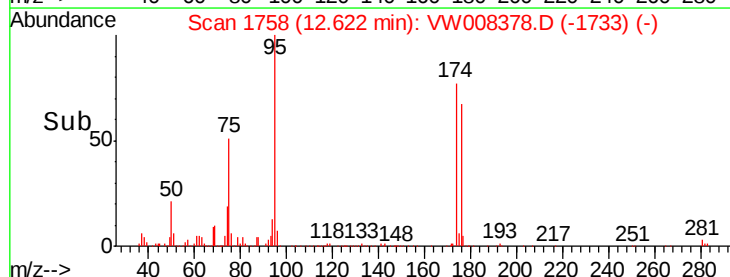
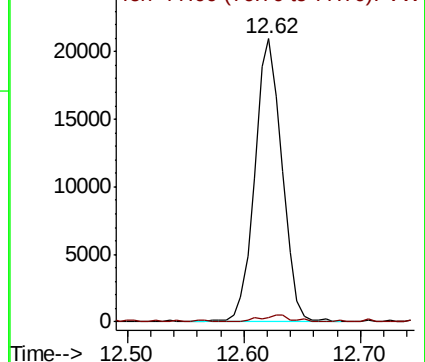
77 2.8 175.3 526.1#

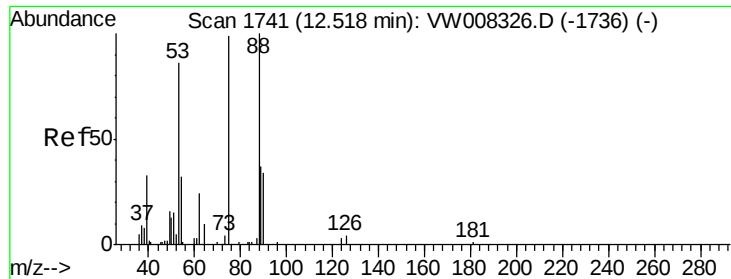


Abundance

Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 158.795 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW008378.D

Acq: 21 Jan 2019 16:33

Instrument :

MSVOA_W

ClientSampleId :

CL-01-011819-C

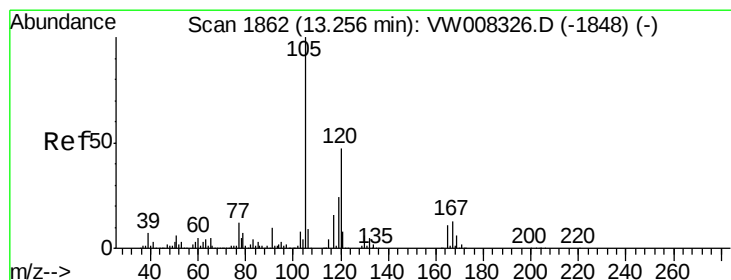
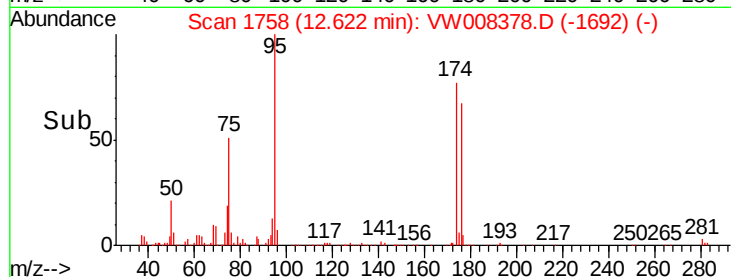
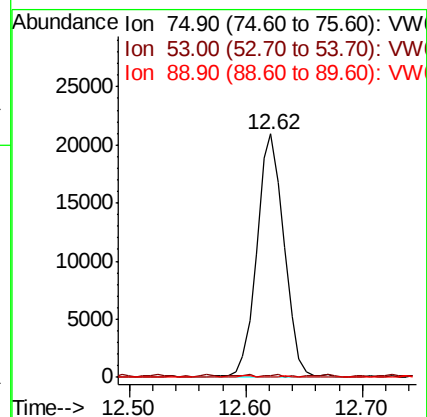
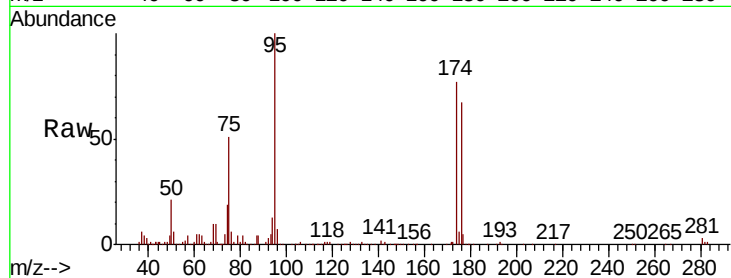
Tgt Ion: 75 Resp: 34316

Ion Ratio Lower Upper

75 100

53 0.5 76.2 114.4#

89 0.1 36.7 55.1#



#84

1,2,4-Trimethylbenzene

Concen: 1.454 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW008378.D

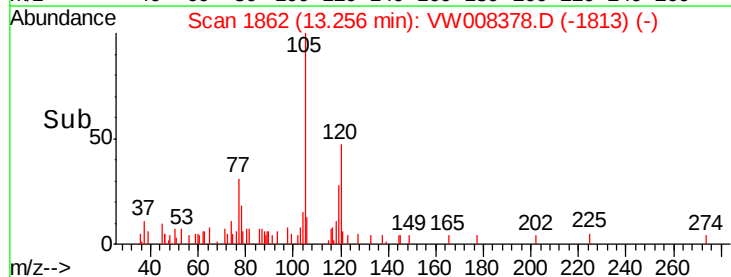
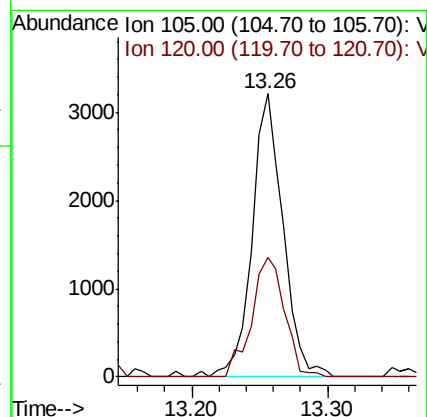
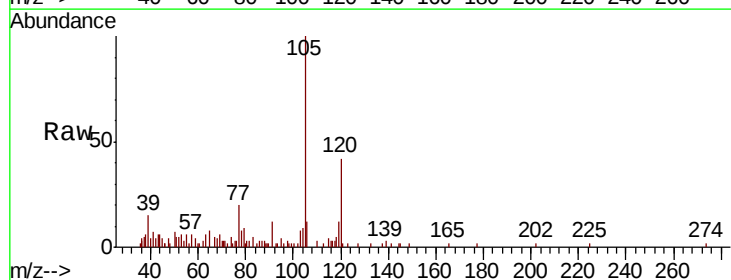
Acq: 21 Jan 2019 16:33

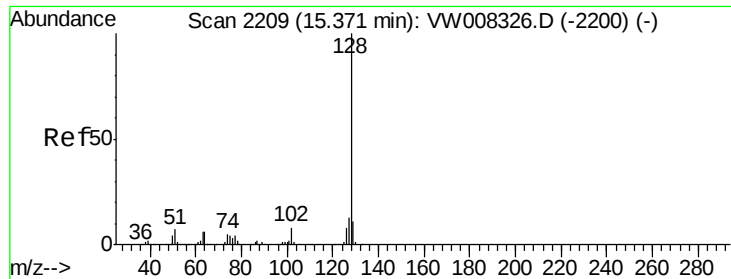
Tgt Ion: 105 Resp: 5101

Ion Ratio Lower Upper

105 100

120 45.3 23.5 70.6

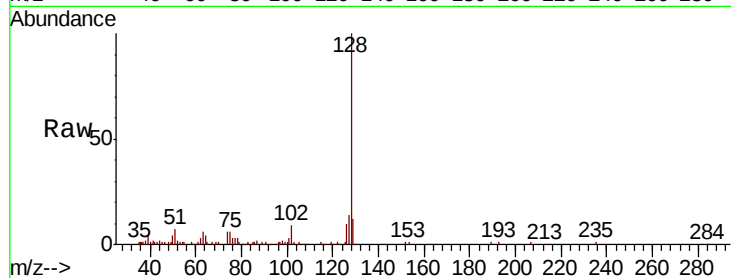




#95
Naphthalene
Concen: 13.788 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. 0.01 min
Lab File: VW008378.D
Acq: 21 Jan 2019 16:33

Instrument :
MSVOA_W
ClientSampleId :
CL-01-011819-C

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.3	10.5	15.7
129	13.4	8.8	13.2



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

