

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW060319\
 Data File : VW010657.D
 Acq On : 03 Jun 2019 14:10
 Operator : SY/VA
 Sample : K2641-21
 Misc : 6.93G/5ML/MSVOA W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jun 04 07:37:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 06:38:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	182289	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	304710	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	259562	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	109528	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	88431	47.00	ug/l	0.00
Spiked Amount			Recovery	=	94.00%	
35) Dibromofluoromethane	7.88	113	90903	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
50) Toluene-d8	10.32	98	363152	51.41	ug/l	0.00
Spiked Amount			Recovery	=	102.82%	
62) 4-Bromofluorobenzene	12.62	95	127461	45.30	ug/l	0.00
Spiked Amount			Recovery	=	90.60%	

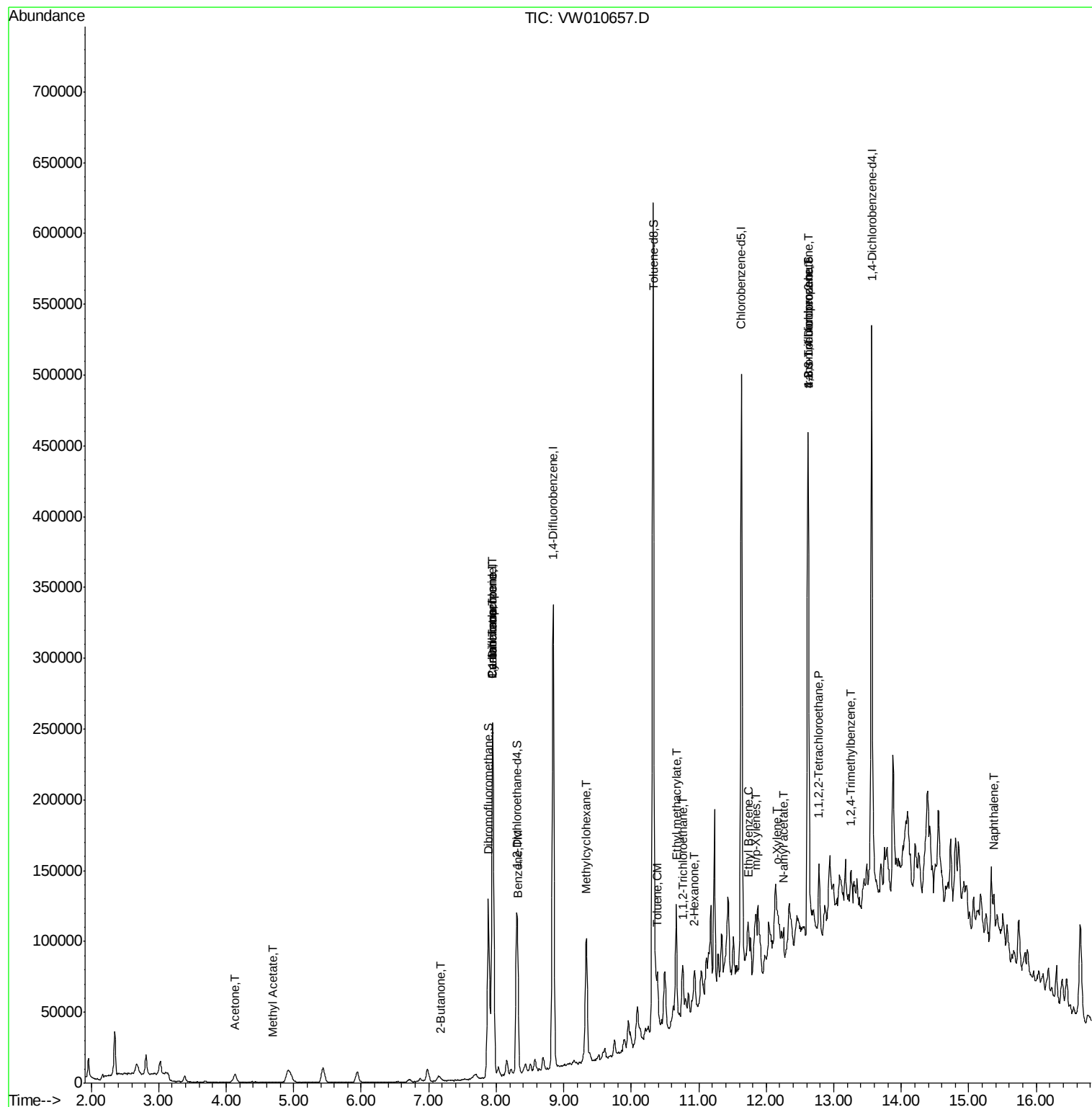
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	4.10	56	423	Below Cal	#	59
16) Acetone	4.14	43	10747	27.982	ug/l	100
18) Methyl Acetate	4.70	43	1291	1.374	ug/l	# 60
20) Methylene Chloride	4.92	84	5722	Below Cal		92
25) 2-Butanone	7.18	43	2164	3.937	ug/l	# 87
31) Cyclohexane	7.95	56	16117	4.512	ug/l	# 68
36) 1,1-Dichloropropene	7.95	75	12227	4.308	ug/l	# 49
38) Carbon Tetrachloride	7.95	117	17779	5.806	ug/l	# 15
39) Methylcyclohexane	9.34	83	39394	10.359	ug/l	98
40) Benzene	8.32	78	11875	1.505	ug/l	91
52) Toluene	10.39	92	17662	3.333	ug/l	100
55) 1,1,2-Trichloroethane	10.76	97	16018	10.165	ug/l	# 20
56) Ethyl methacrylate	10.66	69	8171	3.760	ug/l	# 1
59) 2-Hexanone	10.93	43	10801	12.391	ug/l	# 29
67) Ethyl Benzene	11.73	91	18354	1.879	ug/l	97
68) m/p-Xylenes	11.84	106	9275	2.421	ug/l	91
69) o-Xylene	12.16	106	5267	1.451	ug/l	87
74) N-amyl acetate	12.26	43	4357	2.188	ug/l	# 40
75) 1,1,2,2-Tetrachloroethane	12.78	83	5378	3.402	ug/l	# 26
76) 1,2,3-Trichloropropane	12.62	75	56694	50.994	ug/l	# 1
81) trans-1,4-Dichloro-2-buten	12.62	75	56694	106.426	ug/l	# 15
84) 1,2,4-Trimethylbenzene	13.26	105	11668	1.591	ug/l	92
95) Naphthalene	15.37	128	29012	5.842	ug/l	96

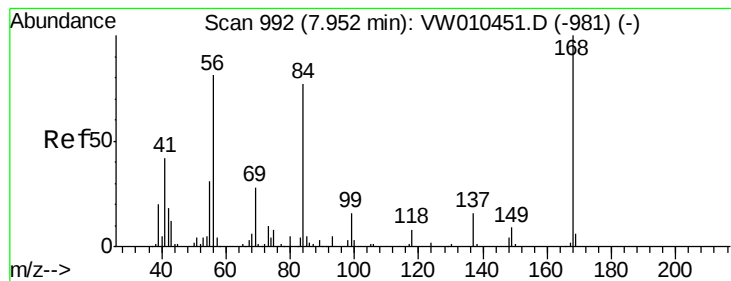
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 04 07:37:53 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
Quant Title : SW846 8260
QLast Update : Tue May 21 06:38:43 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW010657.D

Acq: 03 Jun 2019 14:10

Instrument :

MSVOA_W

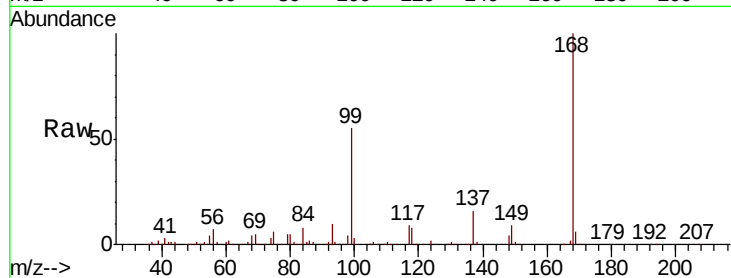
ClientSampleId :

Tot Ion:168 Resp: 182289

Ion Ratio Lower Upper

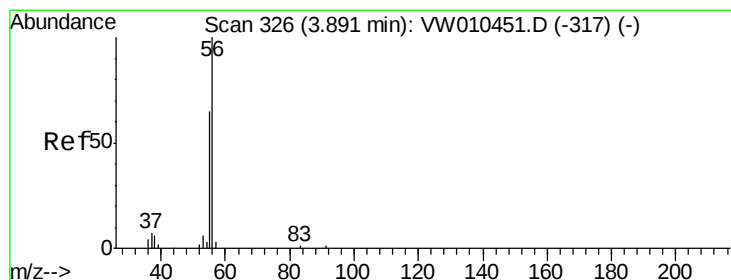
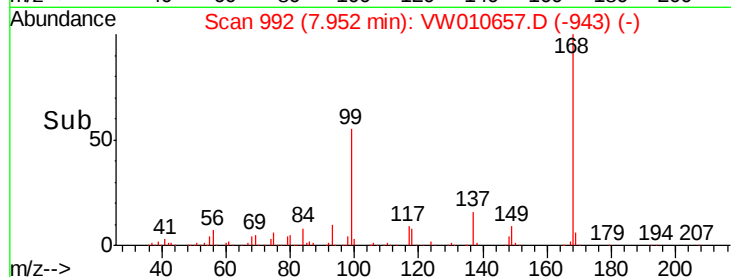
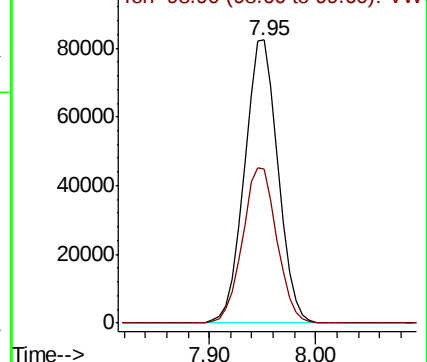
168 100

99 54.6 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#13

Acrolein

Concen: Below Cal

RT: 4.10 min Scan# 361

Delta R.T. 0.21 min

Lab File: VW010657.D

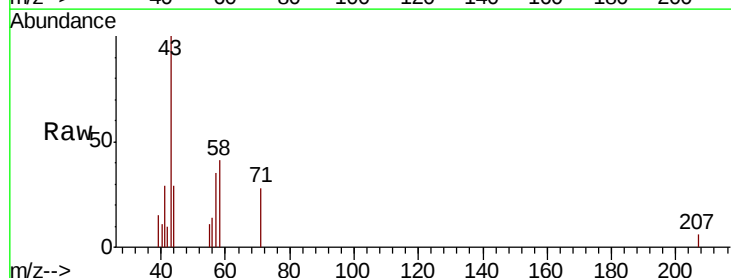
Acq: 03 Jun 2019 14:10

Tgt Ion: 56 Resp: 423

Ion Ratio Lower Upper

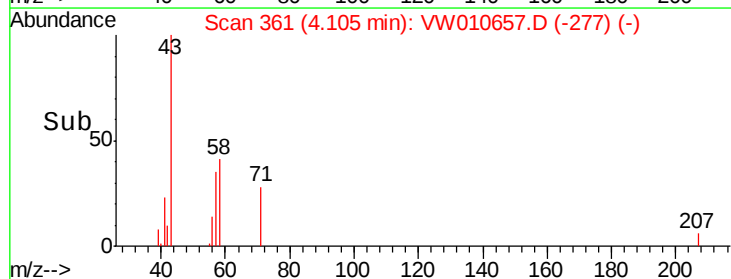
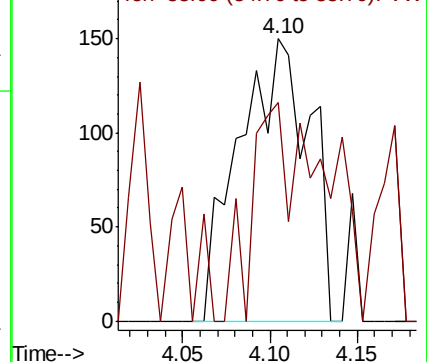
56 100

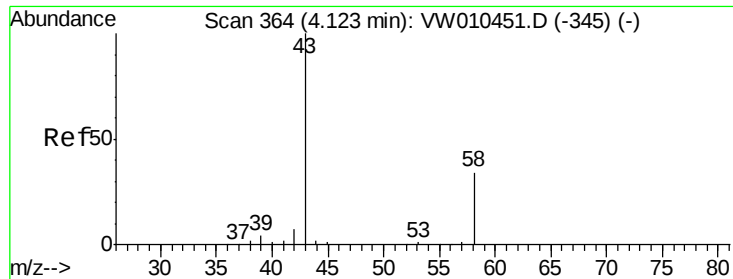
55 38.3 57.9 86.9#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

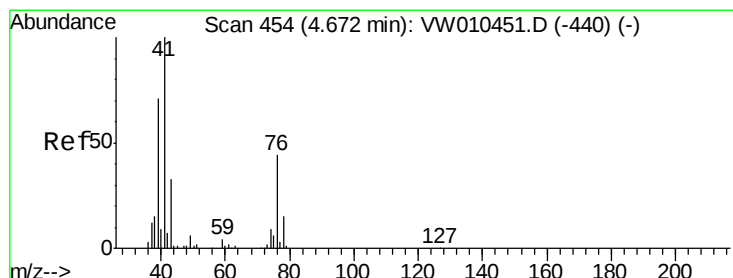
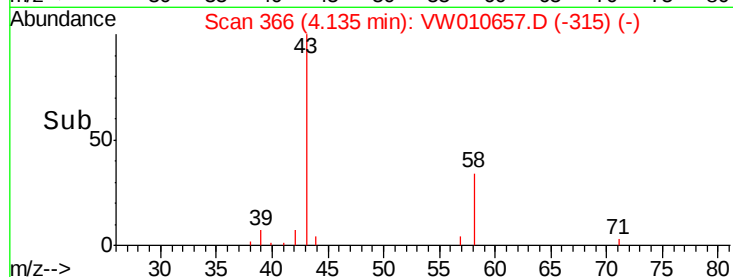
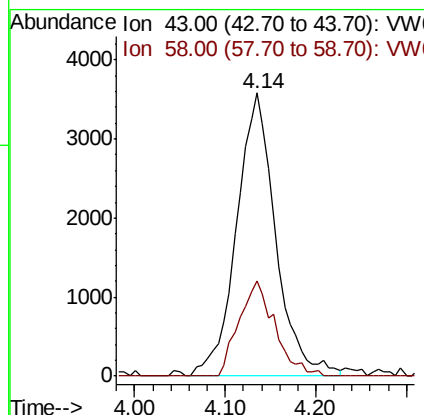
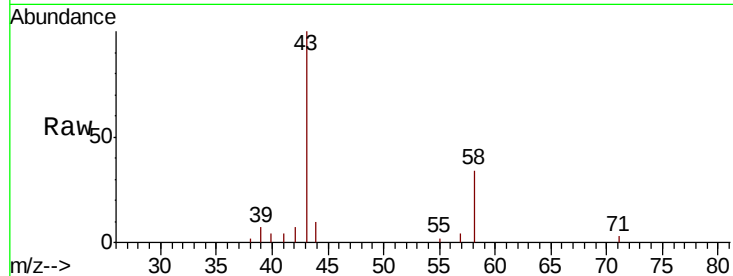




#16
Acetone
Concen: 27.982 ug/l
RT: 4.14 min Scan# 366
Delta R.T. 0.01 min
Lab File: VW010657.D
Acq: 03 Jun 2019 14:10

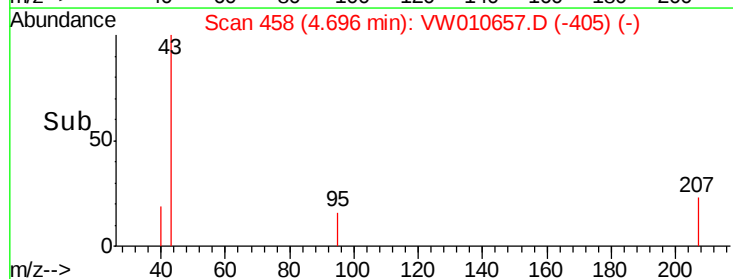
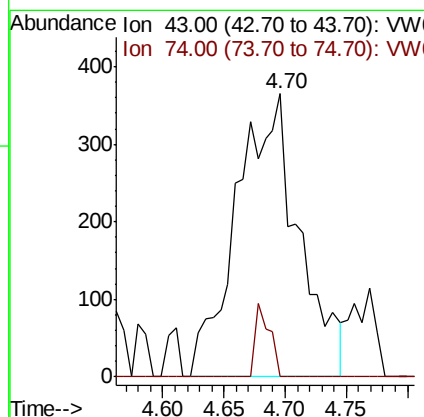
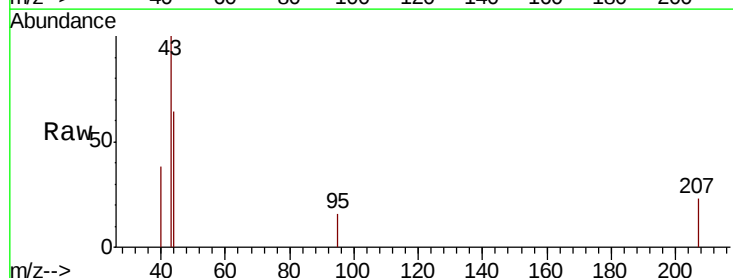
Instrument :
MSVOA_W
ClientSampled :

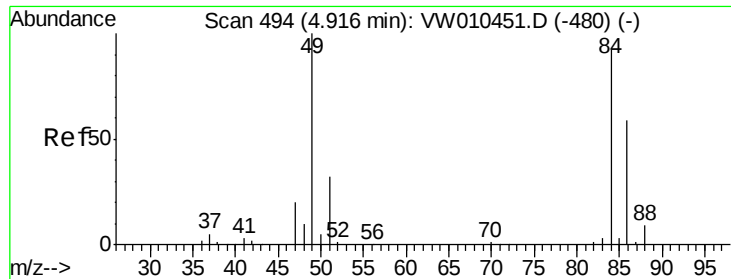
Tot Ion: 43 Resp: 10747
Ion Ratio Lower Upper
43 100
58 33.6 27.0 40.4



#18
Methyl Acetate
Concen: 1.374 ug/l
RT: 4.70 min Scan# 458
Delta R.T. 0.02 min
Lab File: VW010657.D
Acq: 03 Jun 2019 14:10

Tgt Ion: 43 Resp: 1291
Ion Ratio Lower Upper
43 100
74 6.1 21.6 32.4#



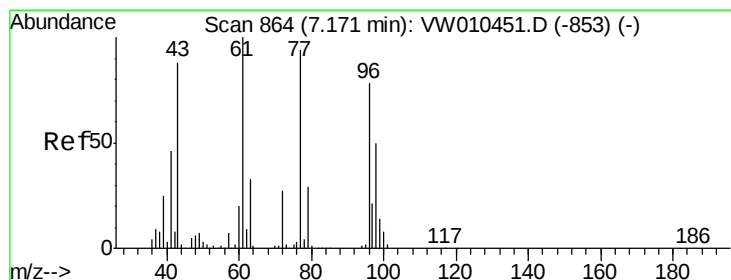
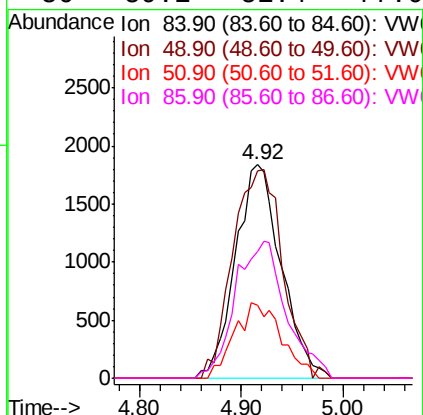
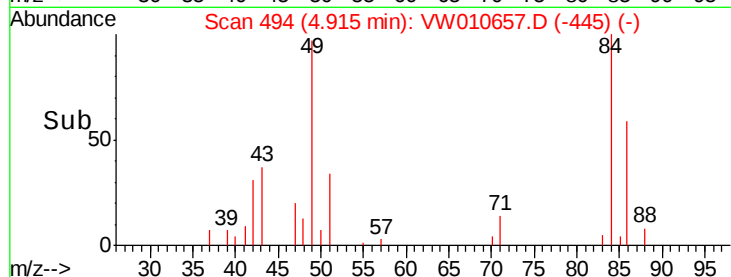
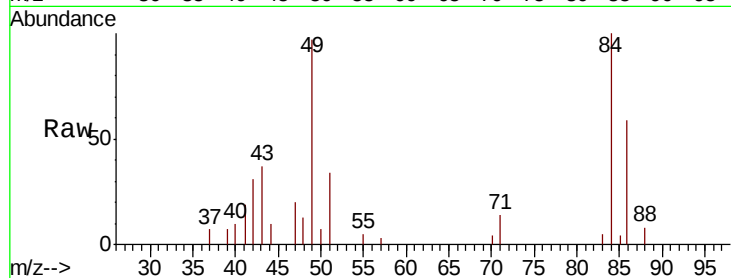


#20
Methylene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW010657.D
Acq: 03 Jun 2019 14:10

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 84 Resp: 5722

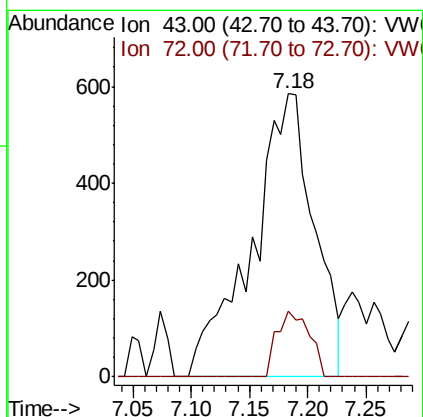
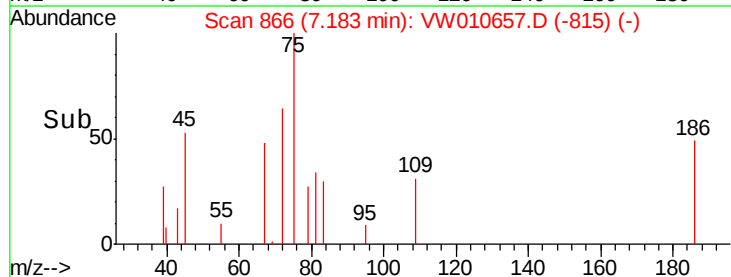
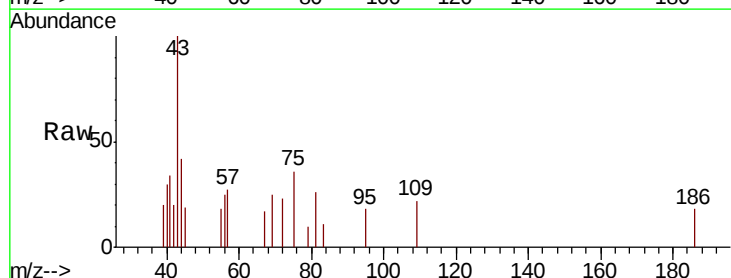
Ion	Ratio	Lower	Upper
84	100		
49	97.0	87.2	130.8
51	34.1	27.7	41.5
86	59.1	51.4	77.0

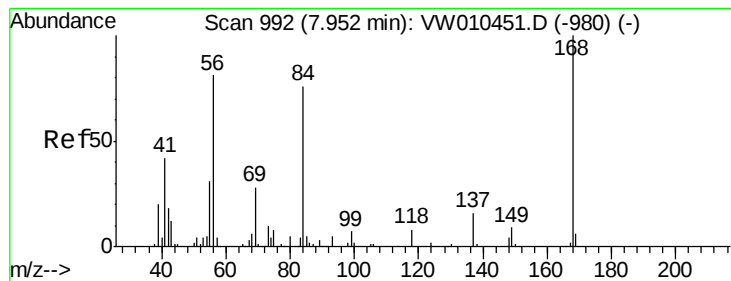


#25
2-Butanone
Concen: 3.937 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW010657.D
Acq: 03 Jun 2019 14:10

Tgt Ion: 43 Resp: 2164

Ion	Ratio	Lower	Upper
43	100		
72	23.1	24.1	36.1#





#31

Cyclohexane

Concen: 4.512 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW010657.D

Acq: 03 Jun 2019 14:10

Instrument :

MSVOA_W

ClientSampled :

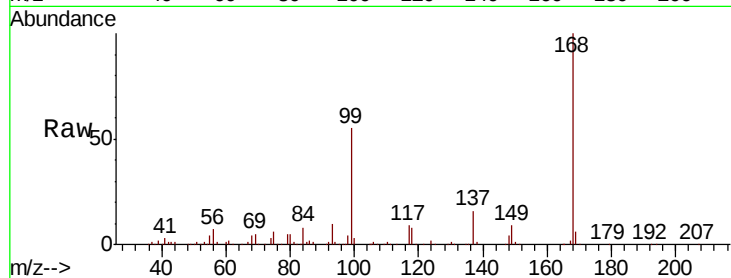
Tot Ion: 56 Resp: 16117

Ion Ratio Lower Upper

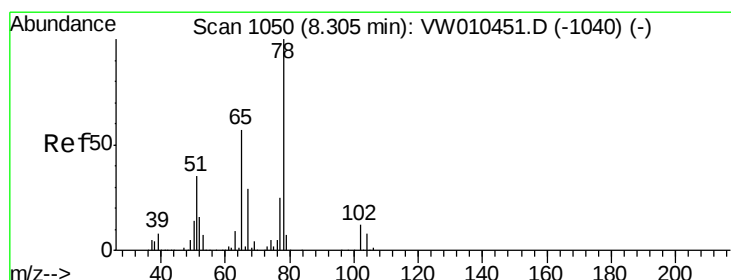
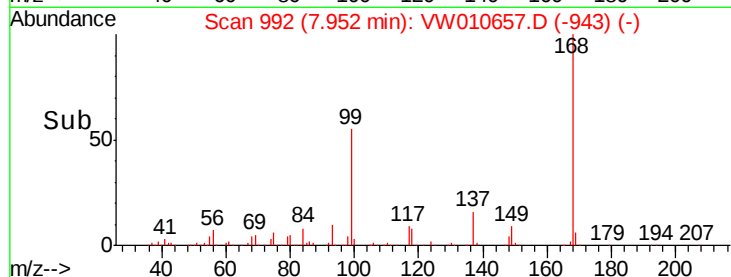
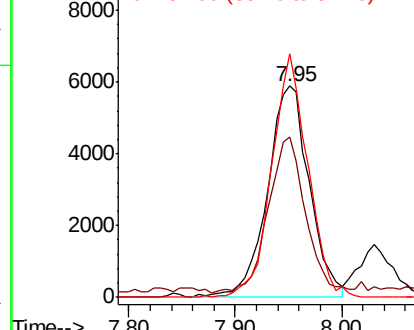
56 100

69 71.7 28.2 42.2#

84 115.1 75.8 113.8#



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: 46.999 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW010657.D

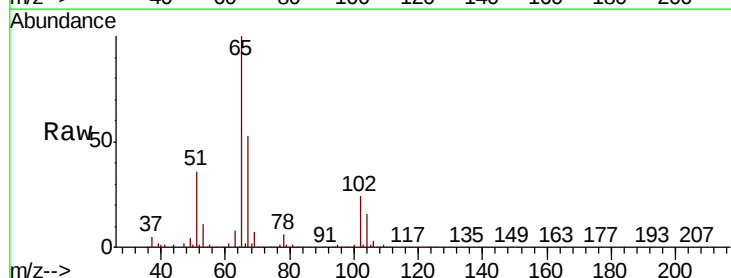
Acq: 03 Jun 2019 14:10

Tgt Ion: 65 Resp: 88431

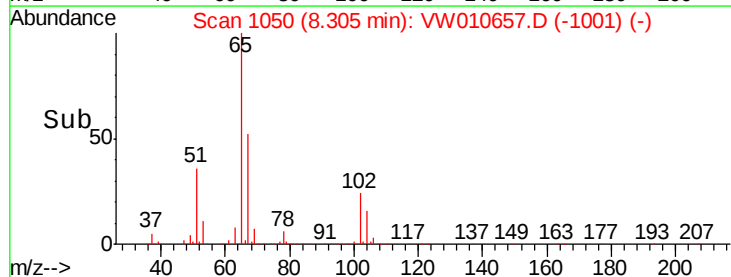
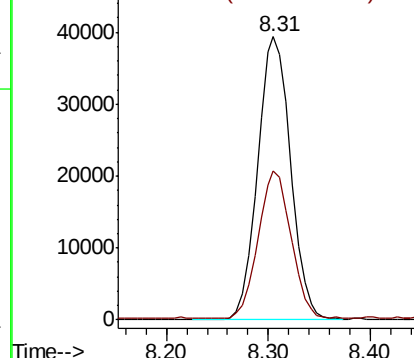
Ion Ratio Lower Upper

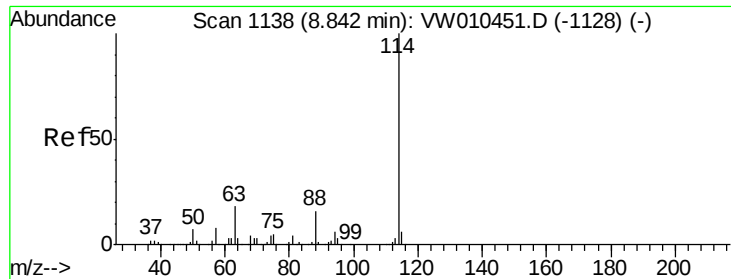
65 100

67 52.1 0.0 103.6



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: VW010657.D

Acq: 03 Jun 2019 14:10

Instrument :

MSVOA_W

ClientSampleId :

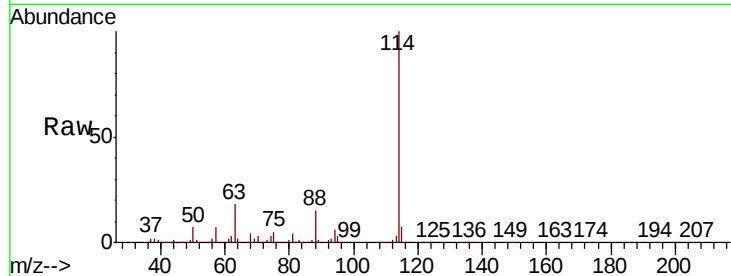
Tot Ion:114 Resp: 304710

Ion Ratio Lower Upper

114 100

63 17.8 0.0 36.0

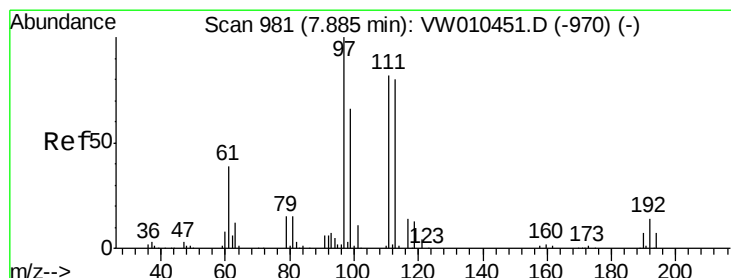
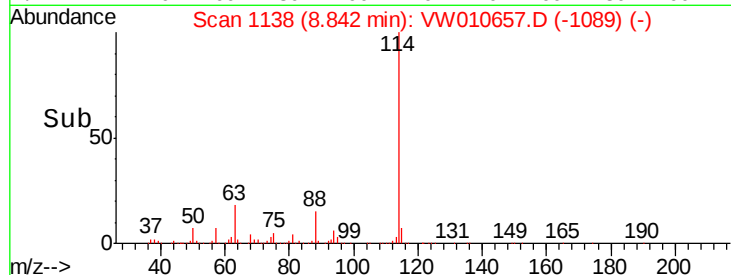
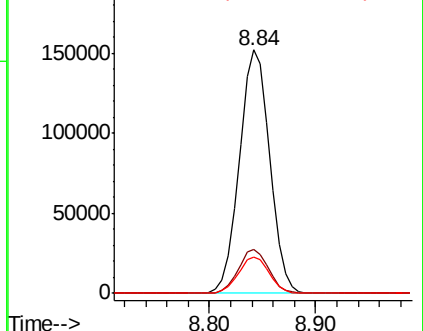
88 15.1 0.0 32.0



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: 49.165 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW010657.D

Acq: 03 Jun 2019 14:10

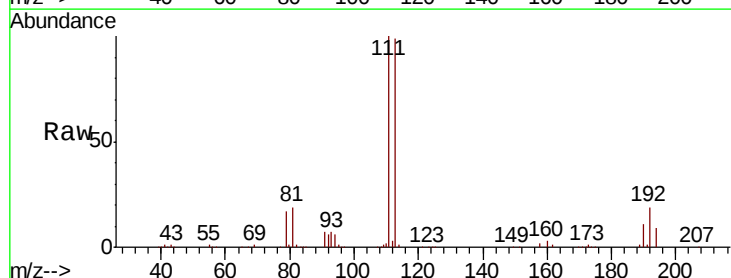
Tgt Ion:113 Resp: 90903

Ion Ratio Lower Upper

113 100

111 101.8 82.2 123.4

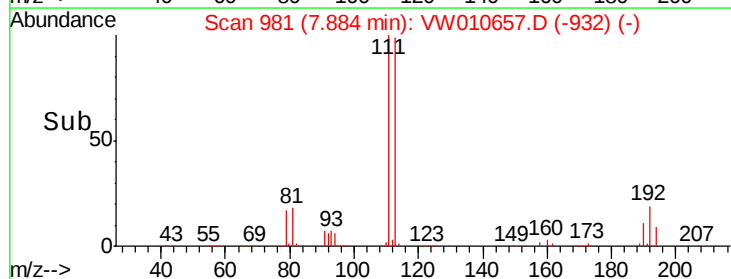
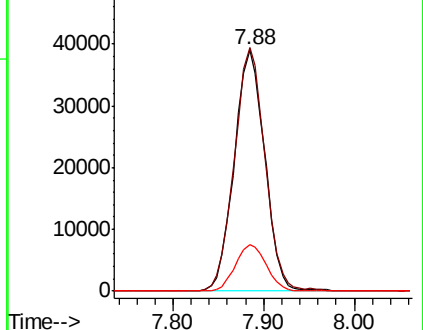
192 19.7 14.3 21.5

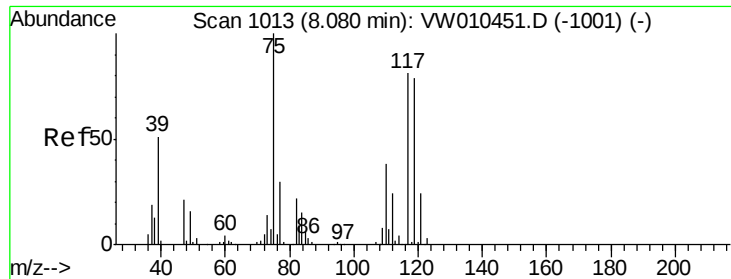


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

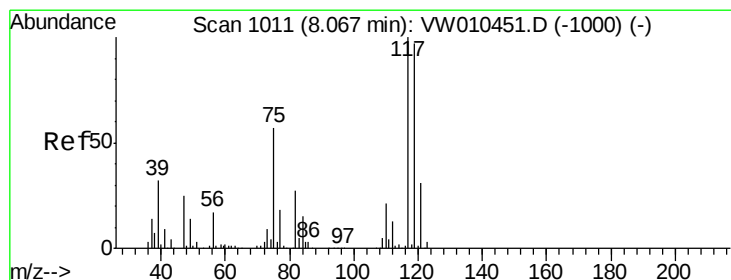
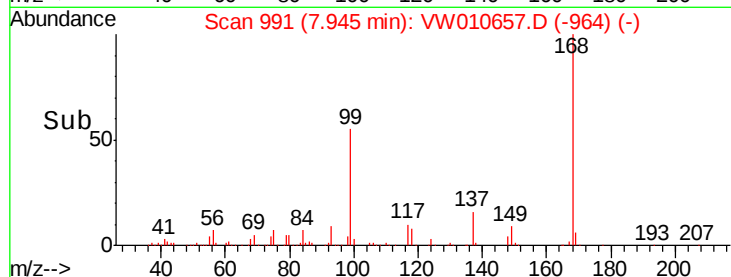
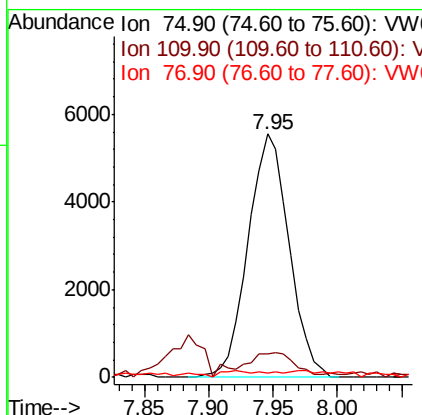
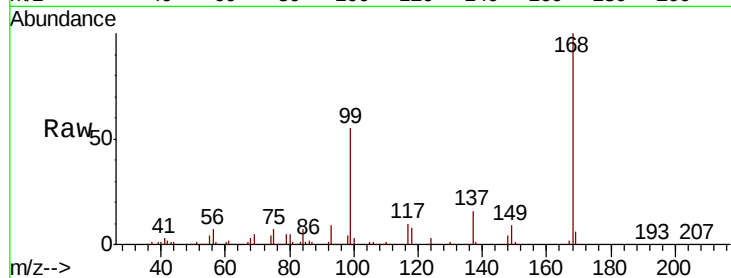




#36
 1,1-Dichloropropene
 Concen: 4.308 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW010657.D
 Acq: 03 Jun 2019 14:10

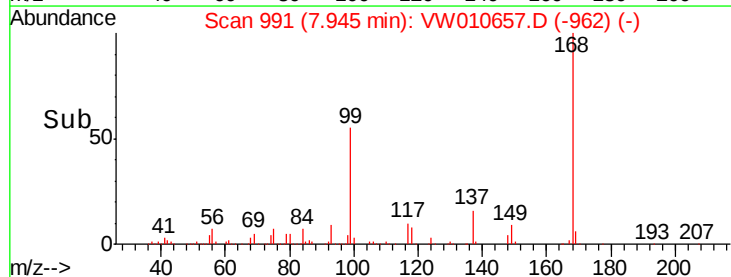
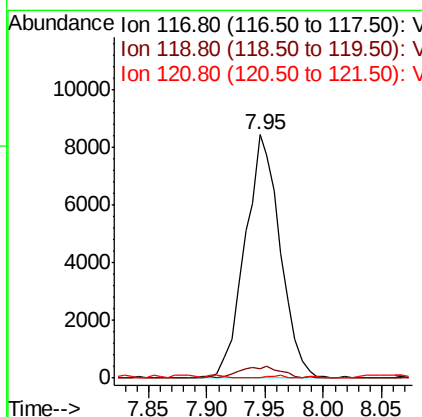
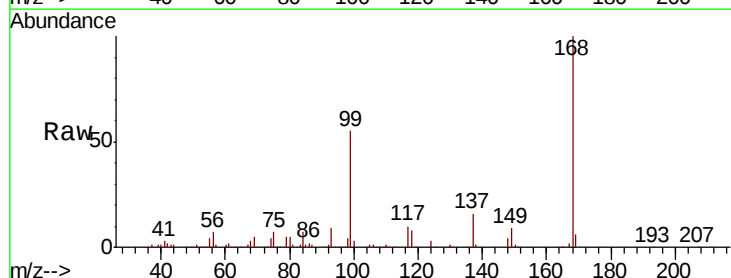
Instrument :
 MSVOA_W
 ClientSampleId :

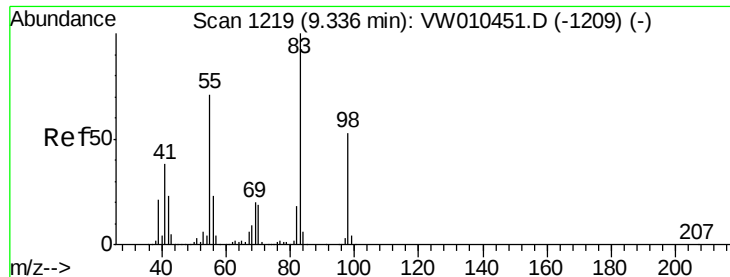
Tot Ion: 75 Resp: 12227
 Ion Ratio Lower Upper
 75 100
 110 10.8 19.2 57.6#
 77 0.0 25.2 37.8#



#38
 Carbon Tetrachloride
 Concen: 5.806 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW010657.D
 Acq: 03 Jun 2019 14:10

Tgt Ion: 117 Resp: 17779
 Ion Ratio Lower Upper
 117 100
 119 3.9 77.4 116.0#
 121 0.0 25.0 37.6#

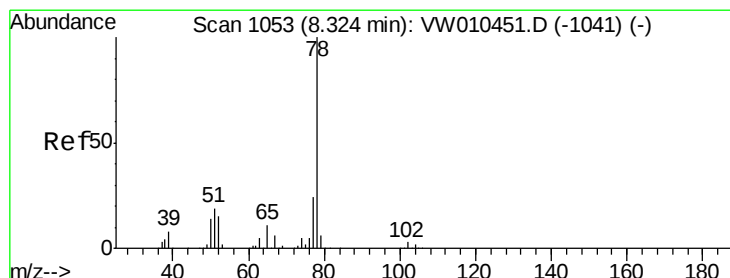
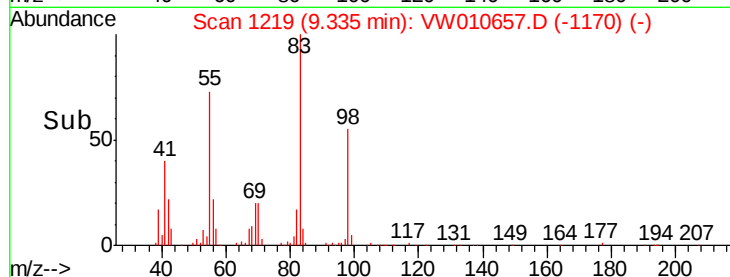
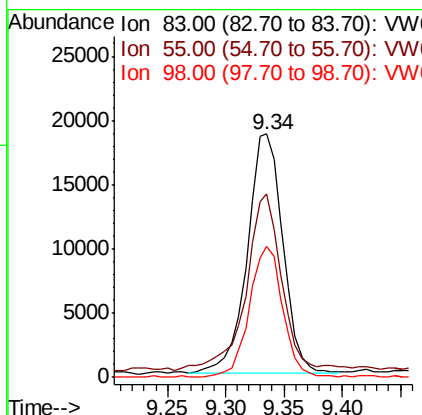
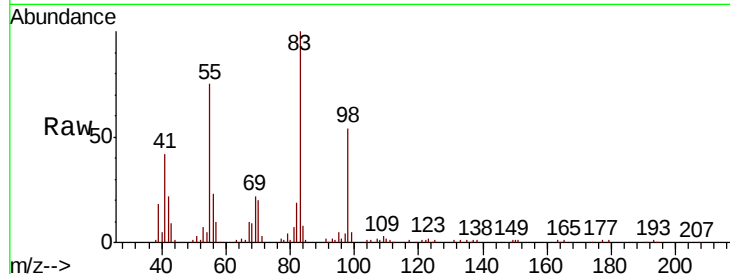




#39
Methvlcvclohexane
Concen: 10.359 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW010657.D
Acq: 03 Jun 2019 14:10

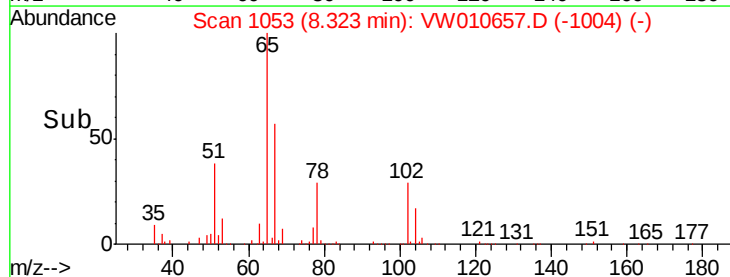
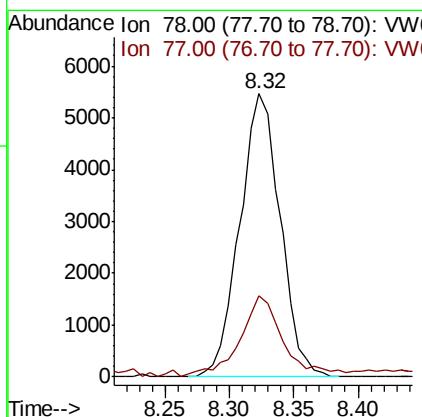
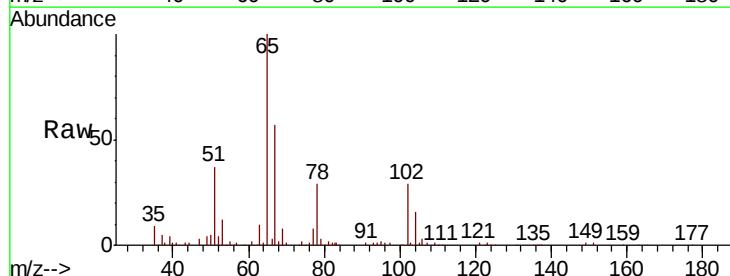
Instrument :
MSVOA_W
ClientSampled :

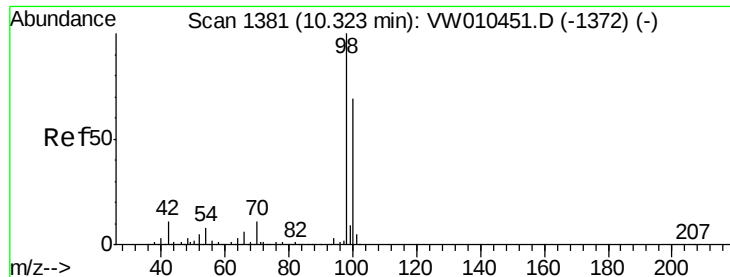
Tot Ion: 83 Resp: 39394
Ion Ratio Lower Upper
83 100
55 72.4 57.0 85.6
98 54.5 42.0 63.0



#40
Benzene
Concen: 1.505 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW010657.D
Acq: 03 Jun 2019 14:10

Tgt Ion: 78 Resp: 11875
Ion Ratio Lower Upper
78 100
77 27.8 18.9 28.3





#50

Toluene-d8

Concen: 51.414 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010657.D

Acq: 03 Jun 2019 14:10

Instrument :

MSVOA_W

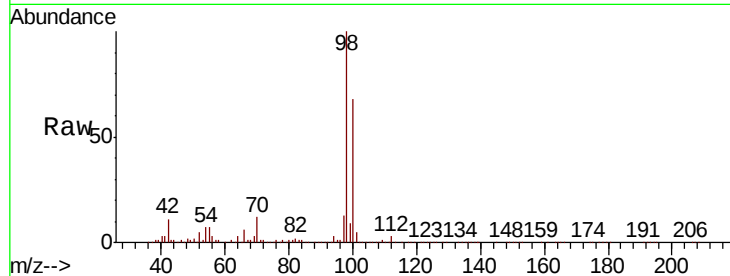
ClientSampleId :

Tot Ion: 98 Resp: 363152

Ion Ratio Lower Upper

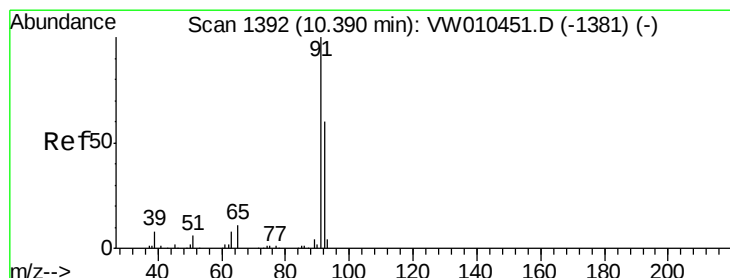
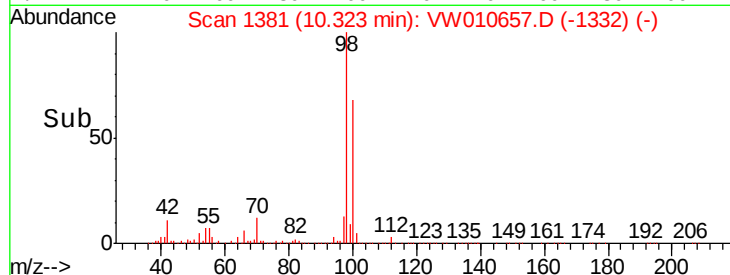
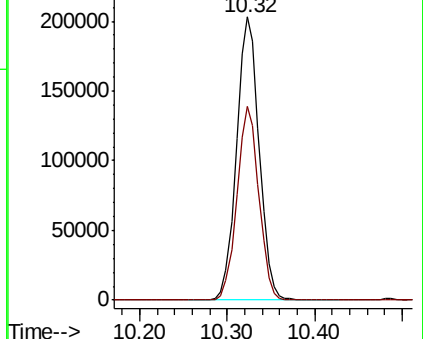
98 100

100 66.5 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#52

Toluene

Concen: 3.333 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010657.D

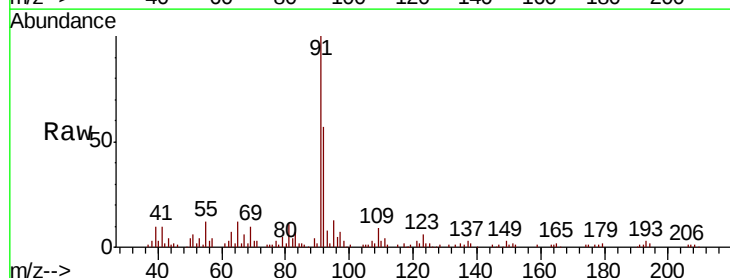
Acq: 03 Jun 2019 14:10

Tgt Ion: 92 Resp: 17662

Ion Ratio Lower Upper

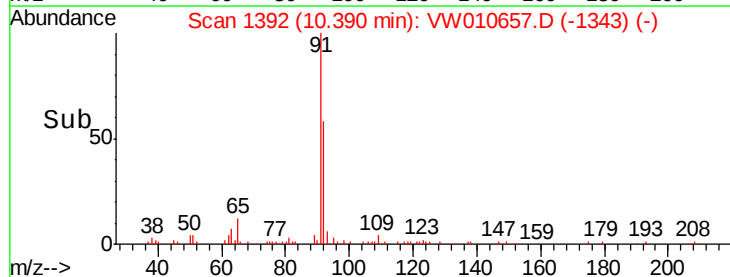
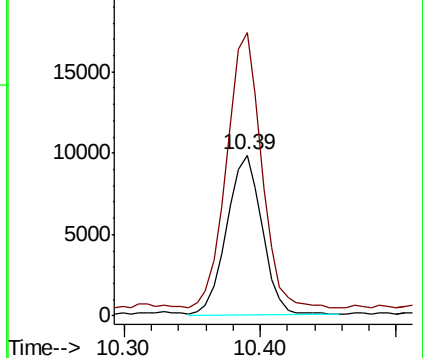
92 100

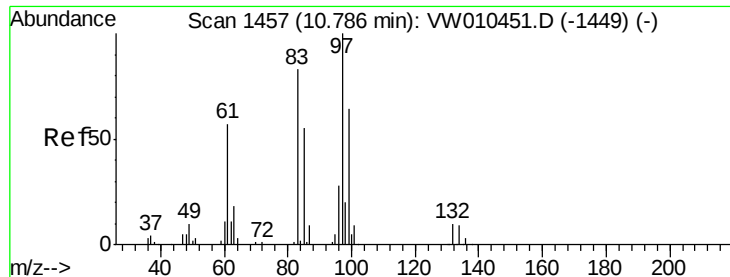
91 168.9 135.4 203.0



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#55

1,1,2-Trichloroethane

Concen: 10.165 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW010657.D

Acq: 03 Jun 2019 14:10

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 97 Resp: 16018

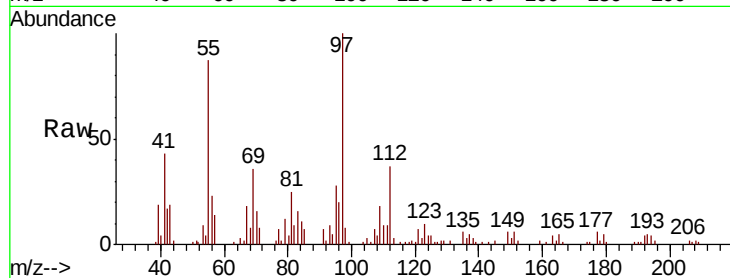
Ion Ratio Lower Upper

97 100

83 4.9 66.1 99.1#

85 4.8 44.2 66.4#

99 1.5 51.1 76.7#

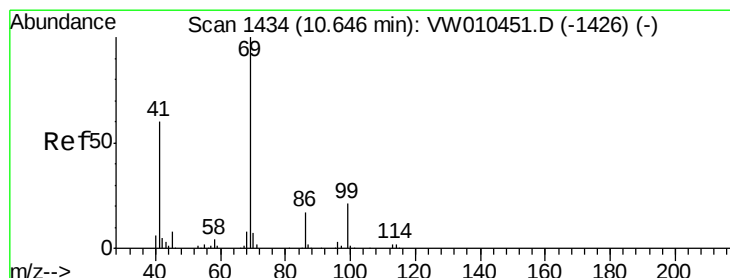
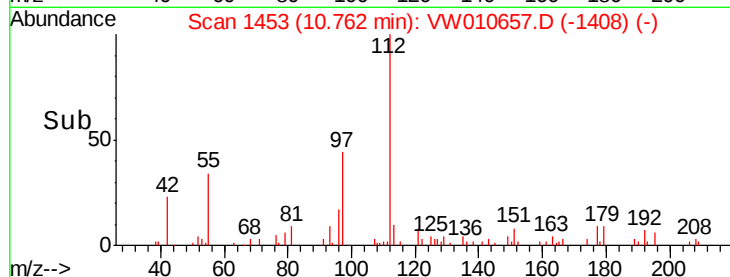
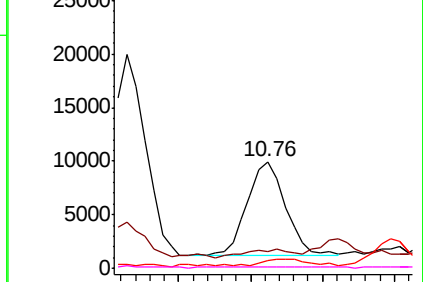


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 3.760 ug/l

RT: 10.66 min Scan# 1437

Delta R.T. 0.02 min

Lab File: VW010657.D

Acq: 03 Jun 2019 14:10

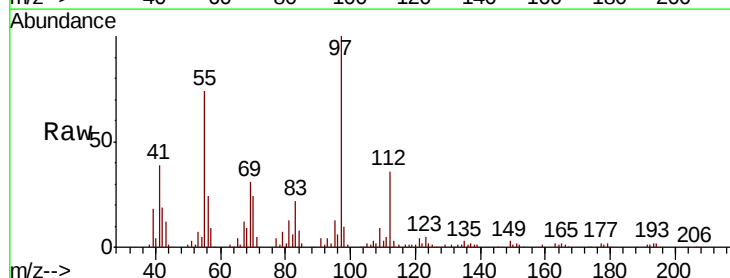
Tgt Ion: 69 Resp: 8171

Ion Ratio Lower Upper

69 100

41 169.6 47.7 71.5#

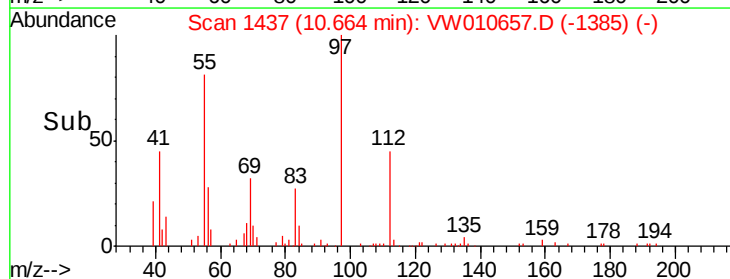
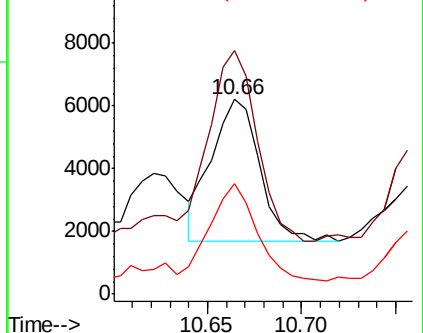
39 76.6 25.3 37.9#

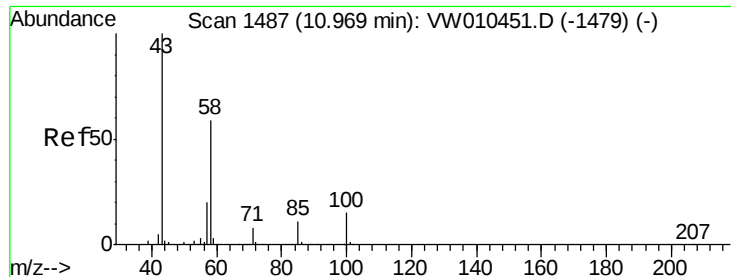


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW





#59

2-Hexanone

Concen: 12.391 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.04 min

Lab File: VW010657.D

Acq: 03 Jun 2019 14:10

Instrument :

MSVOA_W

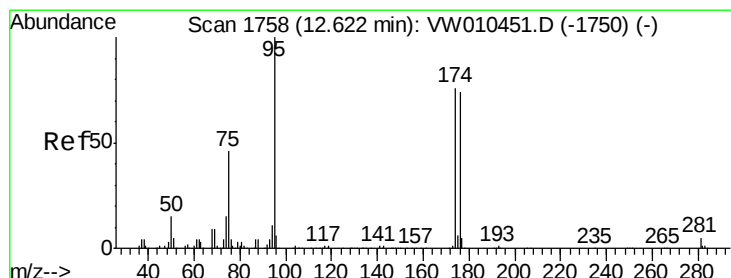
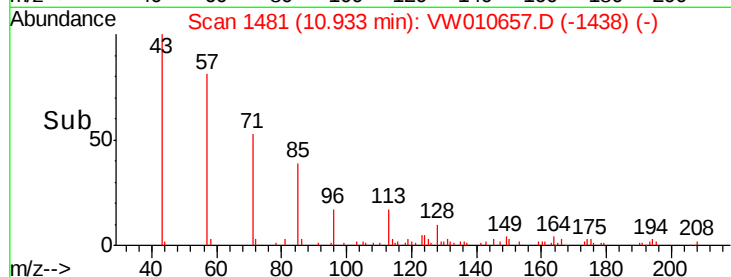
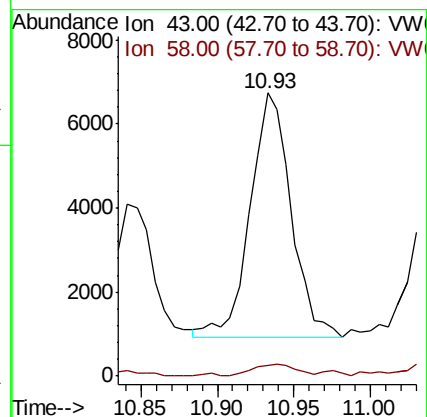
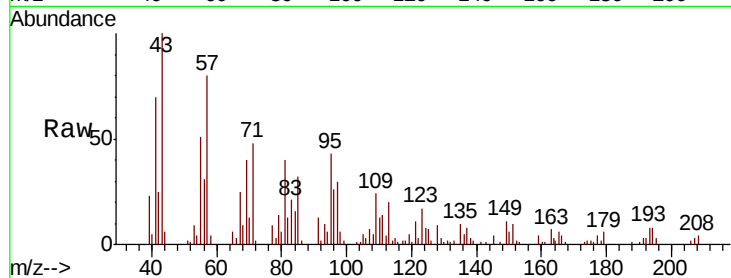
ClientSampleId :

Tot Ion: 43 Resp: 10801

Ion Ratio Lower Upper

43 100

58 5.4 28.9 86.8#



#62

4-Bromofluorobenzene

Concen: 45.305 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010657.D

Acq: 03 Jun 2019 14:10

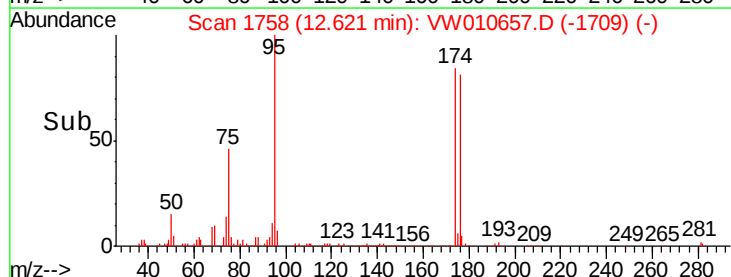
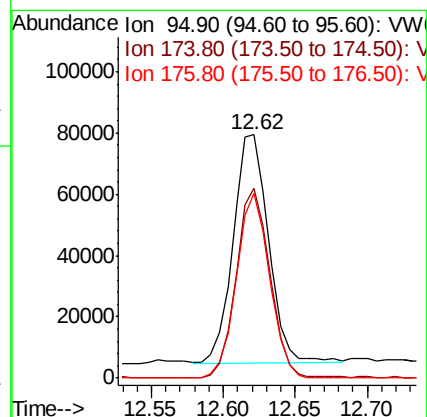
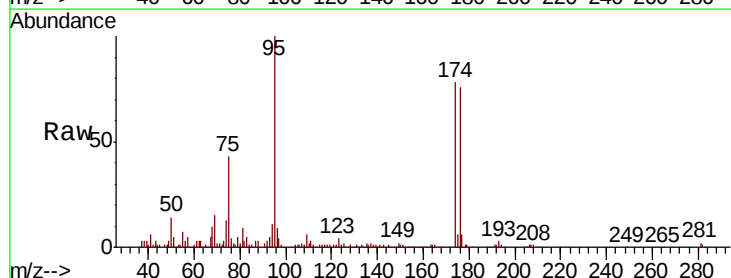
Tgt Ion: 95 Resp: 127461

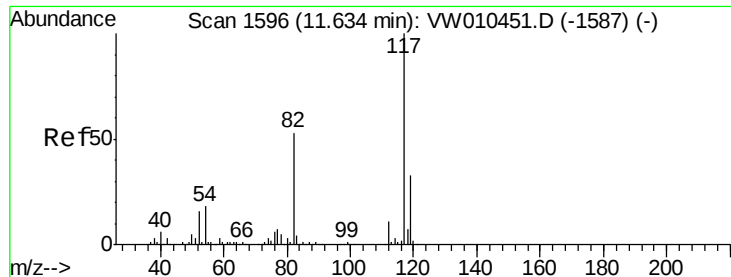
Ion Ratio Lower Upper

95 100

174 78.6 0.0 148.6

176 76.0 0.0 144.2

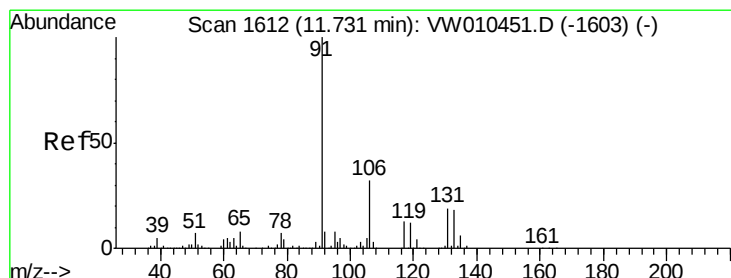
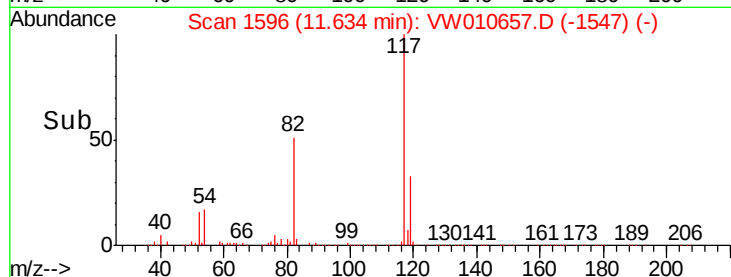
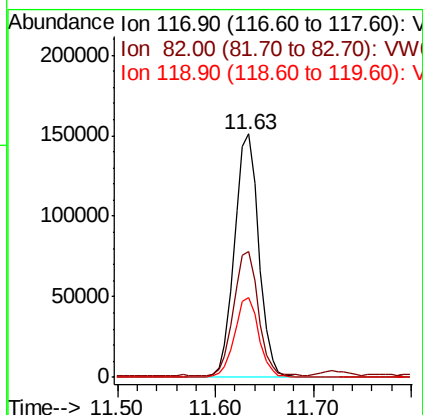
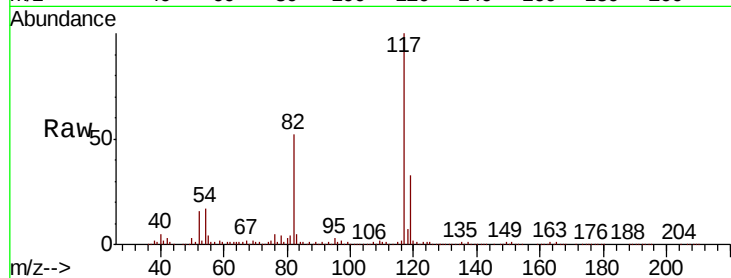




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010657.D
Acq: 03 Jun 2019 14:10

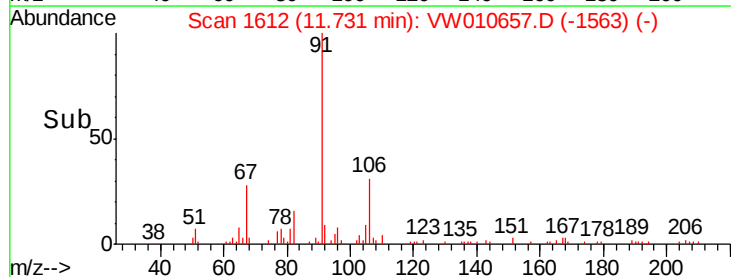
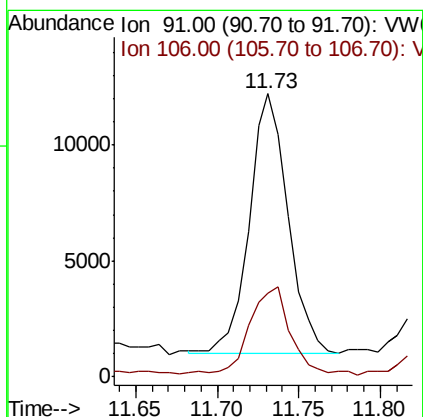
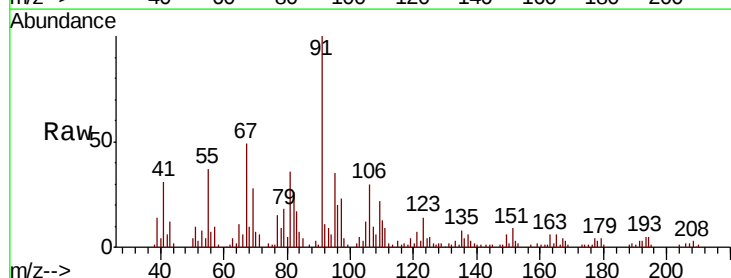
Instrument :
MSVOA_W
ClientSampleId :

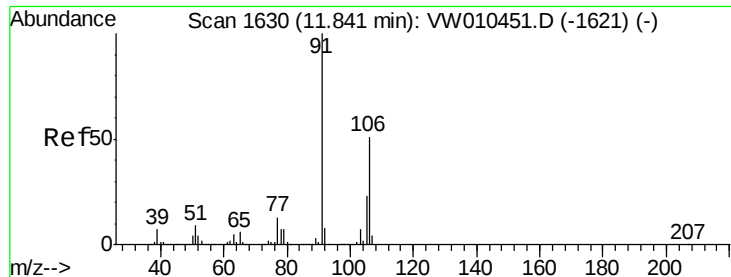
Tot Ion:117 Resp: 259562
Ion Ratio Lower Upper
117 100
82 50.9 42.8 64.2
119 32.6 26.3 39.5



#67
Ethyl Benzene
Concen: 1.879 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010657.D
Acq: 03 Jun 2019 14:10

Tgt Ion: 91 Resp: 18354
Ion Ratio Lower Upper
91 100
106 30.9 25.9 38.9

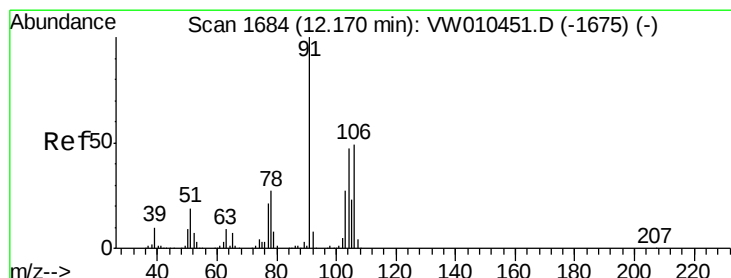
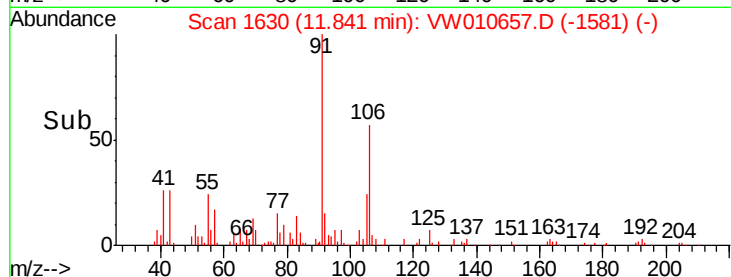
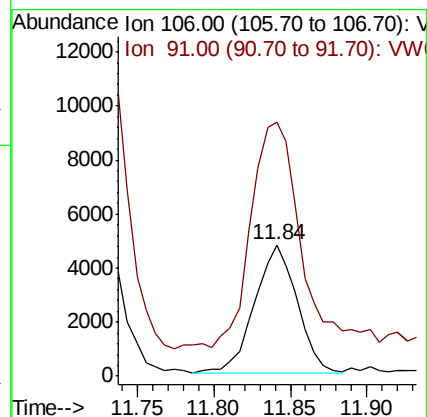
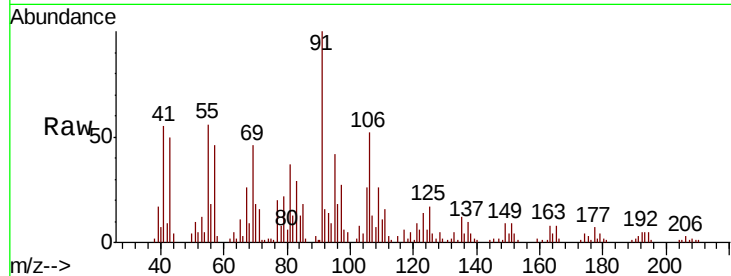




#68
m/p-Xylenes
Concen: 2.421 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW010657.D
Acq: 03 Jun 2019 14:10

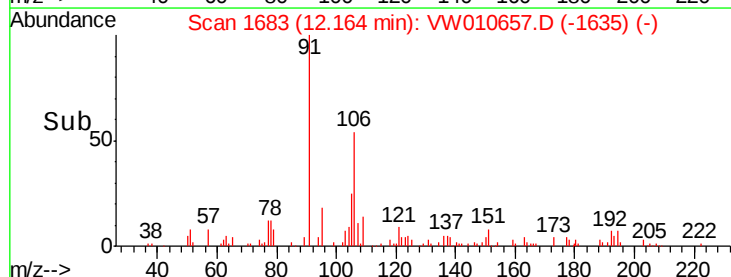
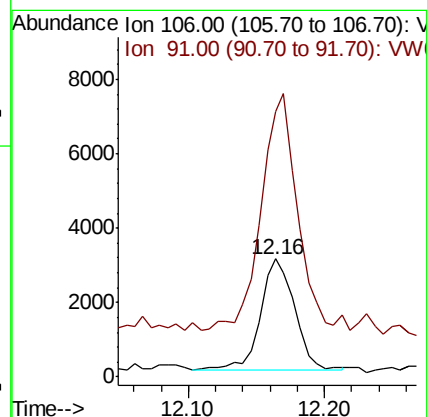
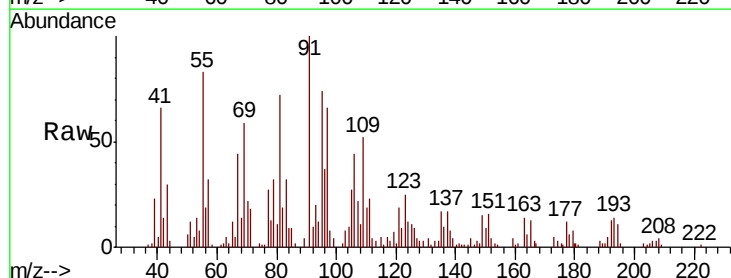
Instrument :
MSVOA_W
ClientSampled :

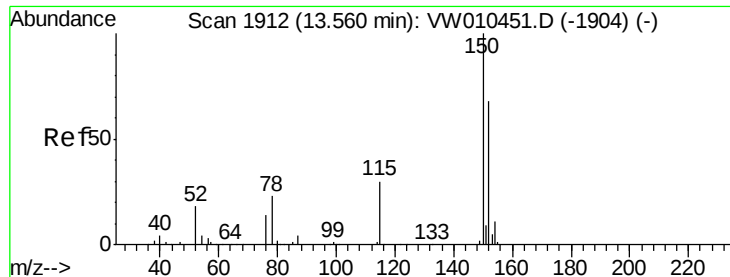
Tot Ion:106 Resp: 9275
Ion Ratio Lower Upper
106 100
91 209.1 156.0 234.0



#69
o-Xylene
Concen: 1.451 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW010657.D
Acq: 03 Jun 2019 14:10

Tgt Ion:106 Resp: 5267
Ion Ratio Lower Upper
106 100
91 225.9 103.2 309.4



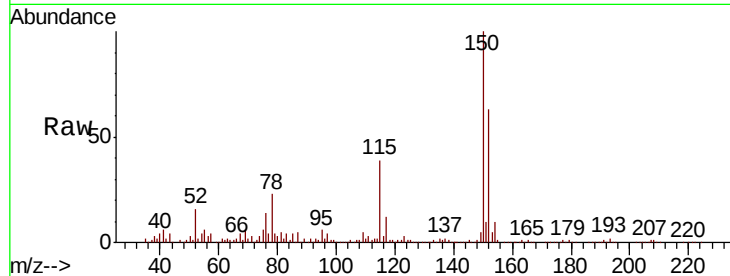


#72

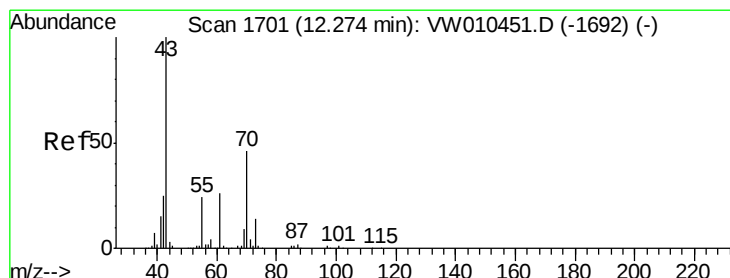
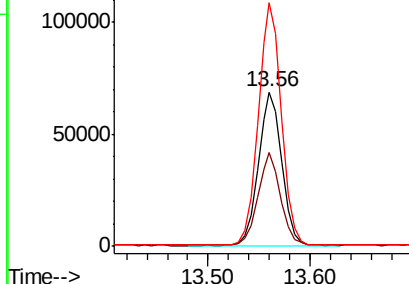
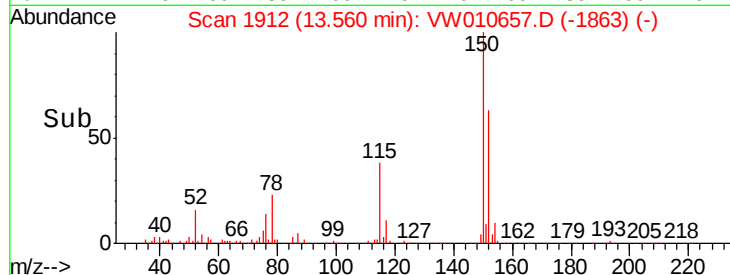
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW010657.D
Acq: 03 Jun 2019 14:10

Instrument :
MSVOA_W
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.3	30.3	91.0
150	155.8	0.0	349.8



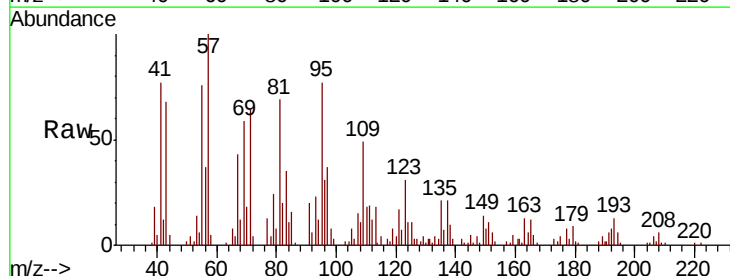
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



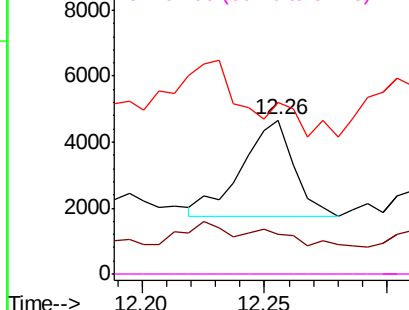
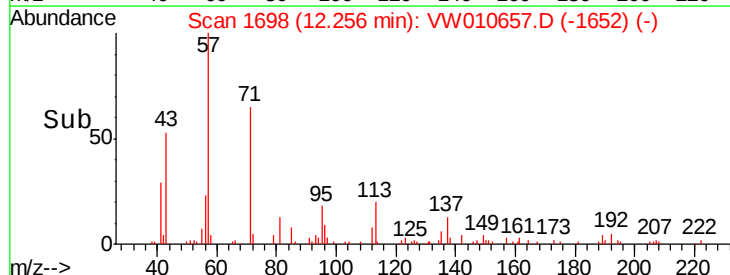
#74

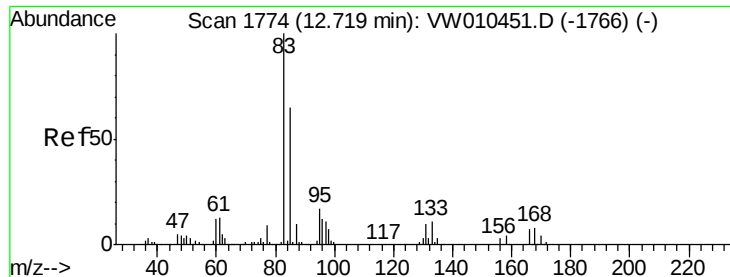
N-ethyl acetate
Concen: 2.188 ug/l
RT: 12.26 min Scan# 1698
Delta R.T. -0.02 min
Lab File: VW010657.D
Acq: 03 Jun 2019 14:10

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	37.1	55.7#
55	0.0	19.6	29.4#
61	0.0	20.7	31.1#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 70.00 (69.70 to 70.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 3.402 ug/l

RT: 12.78 min Scan# 1784

Delta R.T. 0.06 min

Lab File: VW010657.D

Acq: 03 Jun 2019 14:10

Instrument :

MSVOA_W

ClientSampled :

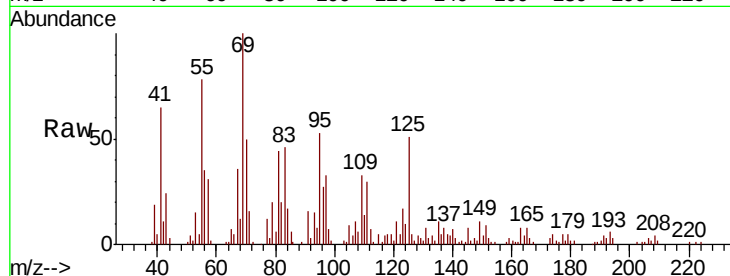
Tot Ion: 83 Resp: 5378

Ion Ratio Lower Upper

83 100

131 0.0 5.6 16.8#

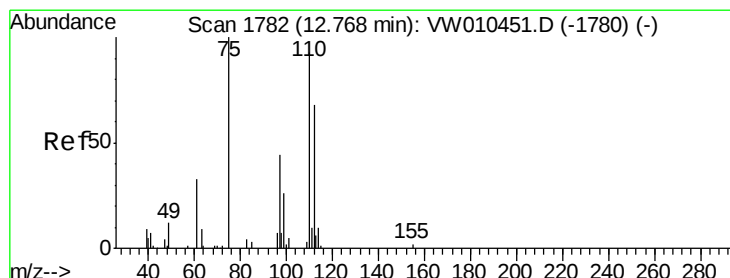
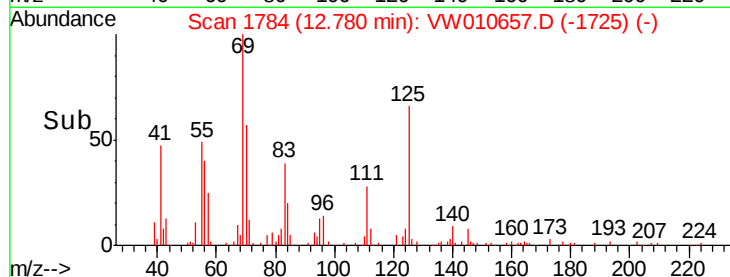
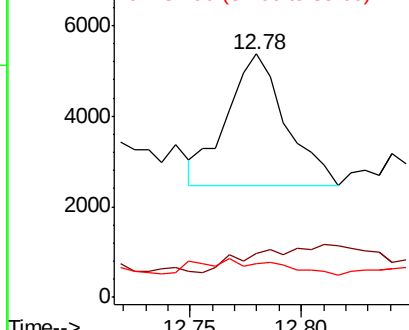
85 0.0 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 50.994 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010657.D

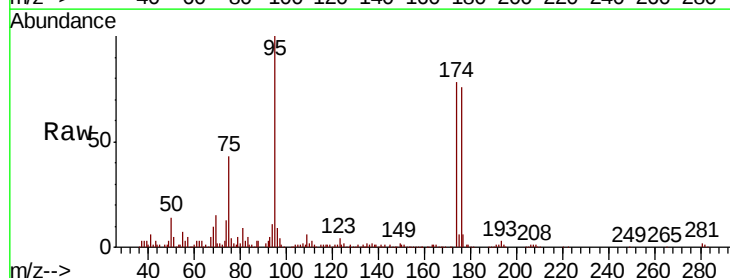
Acq: 03 Jun 2019 14:10

Tgt Ion: 75 Resp: 56694

Ion Ratio Lower Upper

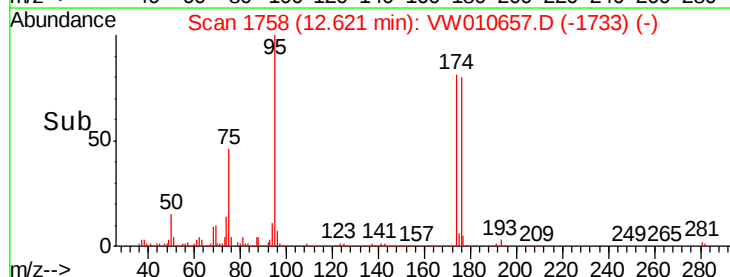
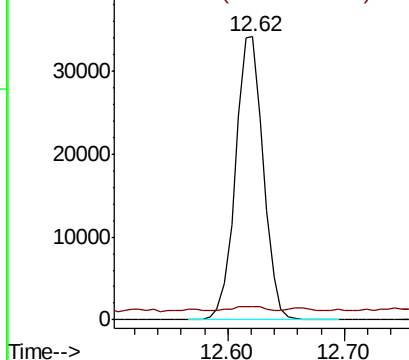
75 100

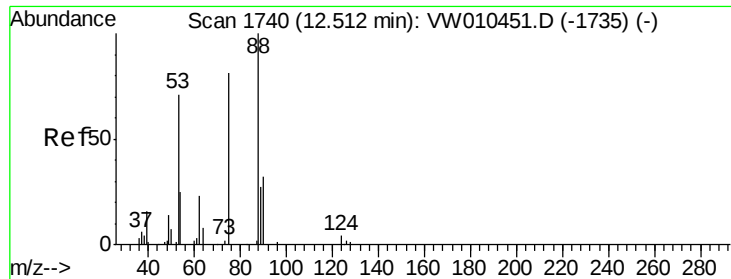
77 1.9 170.0 510.1#



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: 106.426 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010657.D

Acq: 03 Jun 2019 14:10

Instrument :

MSVOA_W

ClientSampleId :

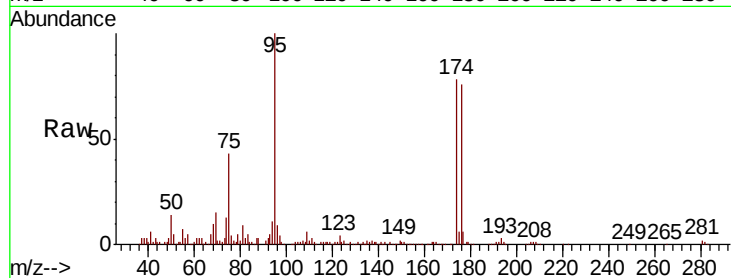
Tot Ion: 75 Resp: 56694

Ion Ratio Lower Upper

75 100

53 1.7 69.8 104.8#

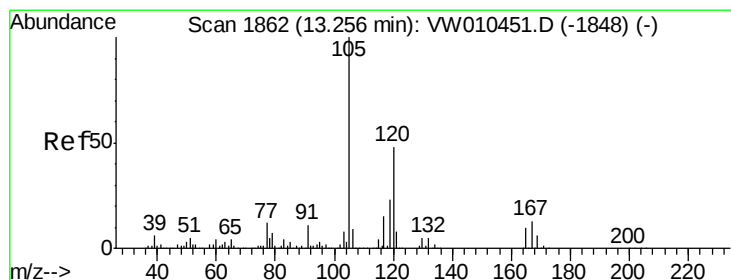
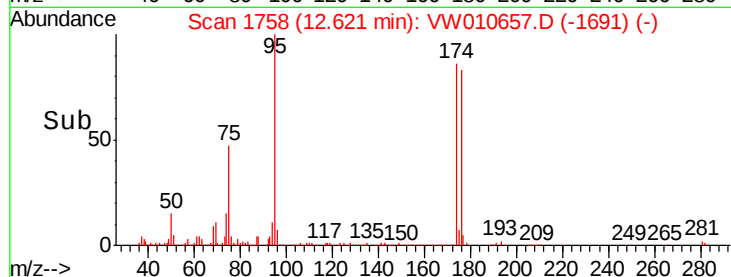
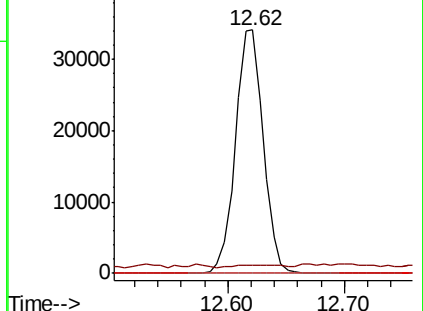
89 0.0 39.5 59.3#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#84

1,2,4-Trimethylbenzene

Concen: 1.591 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VW010657.D

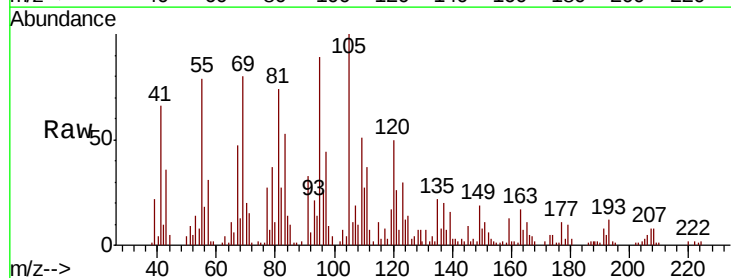
Acq: 03 Jun 2019 14:10

Tgt Ion: 105 Resp: 11668

Ion Ratio Lower Upper

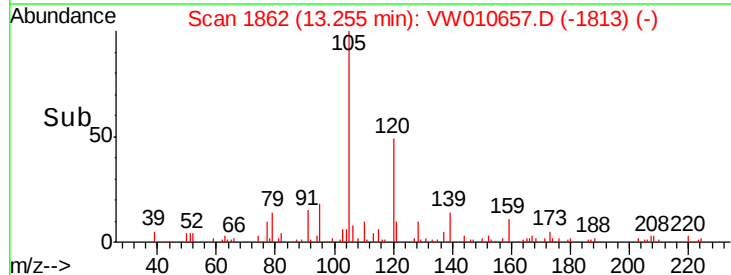
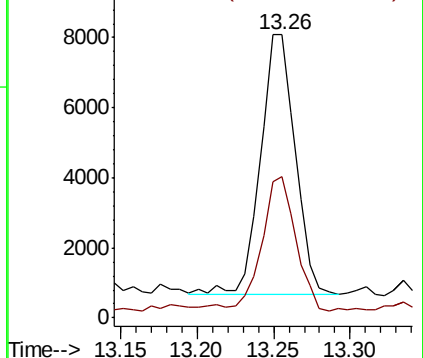
105 100

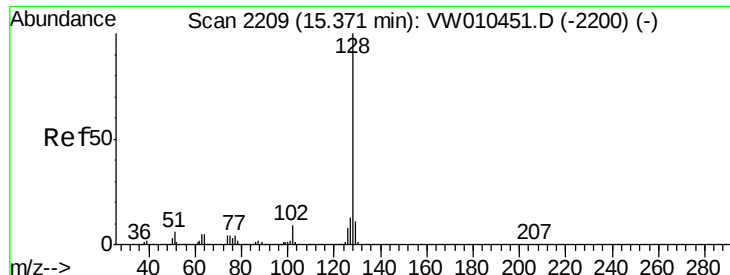
120 52.2 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

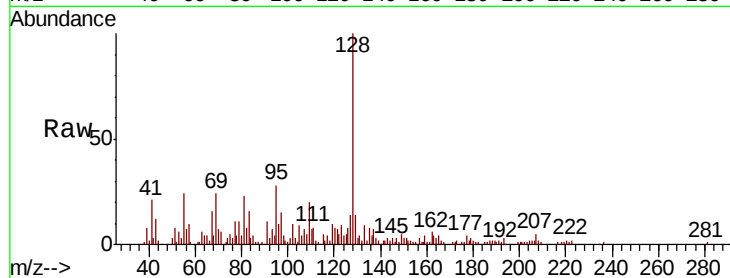




#95
 Naphthalene
 Concen: 5.842 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. -0.00 min
 Lab File: VW010657.D
 Acq: 03 Jun 2019 14:10

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.0	10.6	15.8
129	12.3	8.9	13.3



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

