

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW053019\
 Data File : VW010618.D
 Acq On : 30 May 2019 16:53
 Operator : SY/VA
 Sample : K3097-07
 Misc : 5.06G/5ML/MSVOA W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 0427-HR-7(HACKENSACK)

Quant Time: May 31 07:45:15 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	7.96	168	3385	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	5188	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	3903	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	491	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	1802	51.58	ug/l	0.00
Spiked Amount			Recovery	=	103.16%	
35) Dibromofluoromethane	7.88	113	1450	46.06	ug/l	0.00
Spiked Amount			Recovery	=	92.12%	
50) Toluene-d8	10.32	98	5900	49.06	ug/l	0.00
Spiked Amount			Recovery	=	98.12%	
62) 4-Bromofluorobenzene	12.63	95	1431	29.87	ug/l	0.00
Spiked Amount			Recovery	=	59.74%	

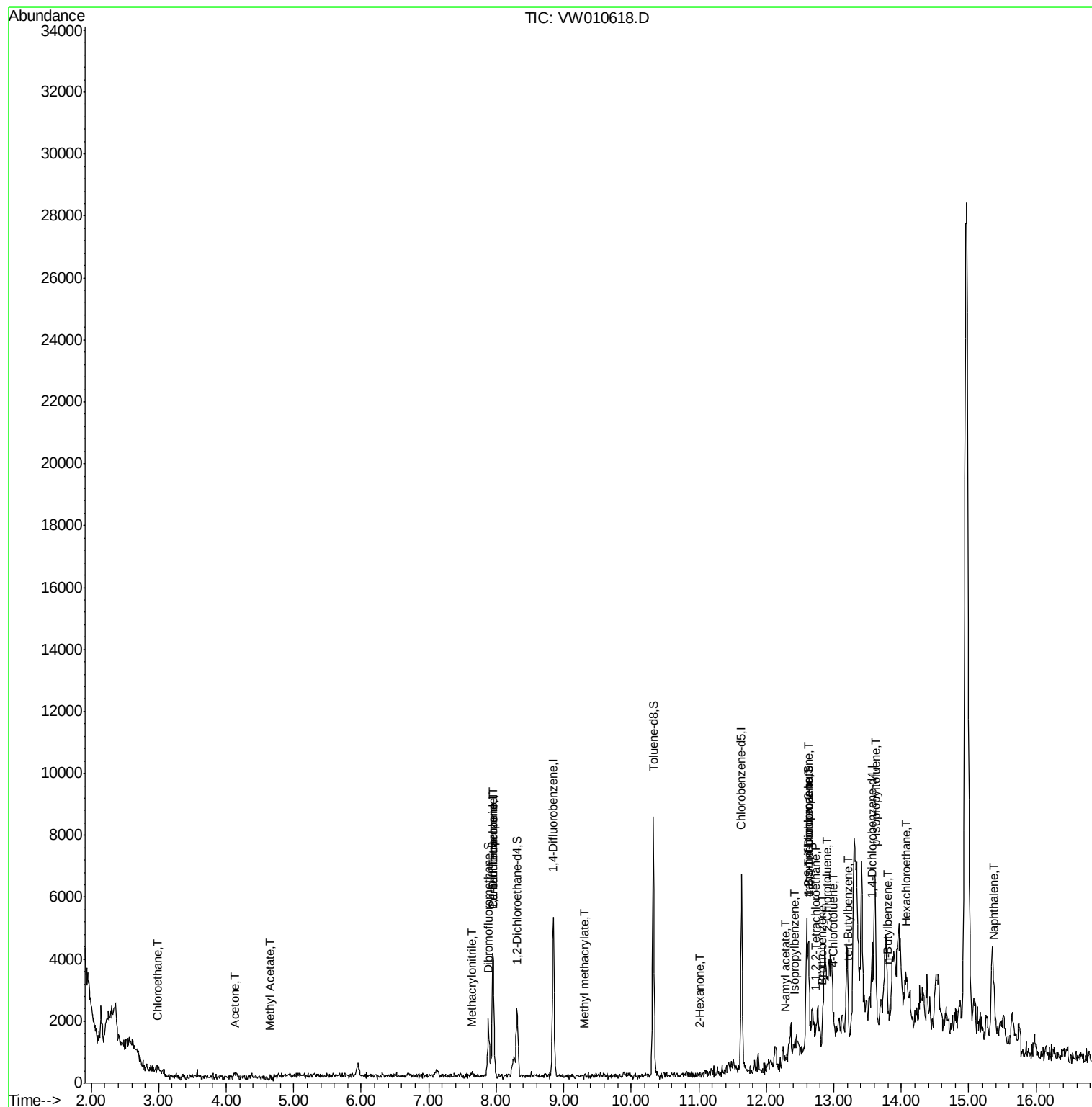
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	2.98	64	40	1.513	ug/l #	43
16) Acetone	4.13	43	271	37.999	ug/l #	41
18) Methyl Acetate	4.65	43	23	1.319	ug/l #	48
36) 1,1-Dichloropropene	7.96	75	161	3.331	ug/l #	40
38) Carbon Tetrachloride	7.95	117	241	4.623	ug/l #	12
41) Methacrylonitrile	7.65	41	19	1.556	ug/l #	19
48) Methyl methacrylate	9.32	41	40	2.130	ug/l #	8
59) 2-Hexanone	11.01	43	51	3.436	ug/l #	22
73) Isopropylbenzene	12.43	105	51	1.309	ug/l #	47
74) N-amyl acetate	12.29	43	41	4.592	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.73	83	31	4.374	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	563	112.962	ug/l #	1
77) Bromobenzene	12.82	156	266	30.508	ug/l #	1
79) 2-Chlorotoluene	12.91	91	181	6.874	ug/l #	40
81) trans-1,4-Dichloro-2-buten	12.62	75	563	235.755	ug/l #	14
82) 4-Chlorotoluene	12.99	91	147	5.378	ug/l #	40
83) tert-Butylbenzene	13.22	119	88	3.053	ug/l #	70
86) p-Isopropyltoluene	13.62	119	97	2.657	ug/l #	71
89) n-Butylbenzene	13.80	91	153	4.406	ug/l #	31
90) Hexachloroethane	14.06	117	19	2.689	ug/l #	15
95) Naphthalene	15.38	128	44	1.977	ug/l #	69

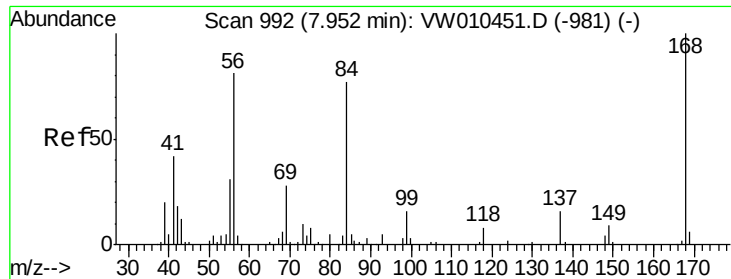
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW010618.D

Acq: 30 May 2019 16:53

Instrument :

MSVOA_W

ClientSampleId :

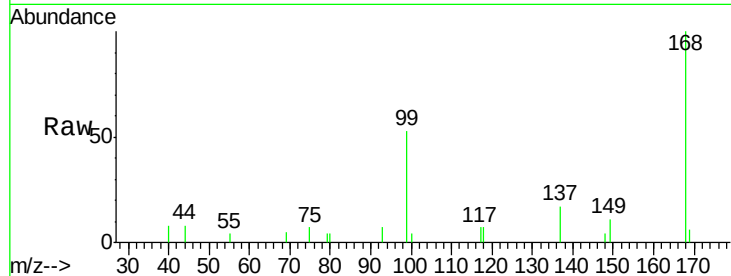
0427-HR-7(HACKENSACK)

Tot Ion:168 Resp: 3385

Ion Ratio Lower Upper

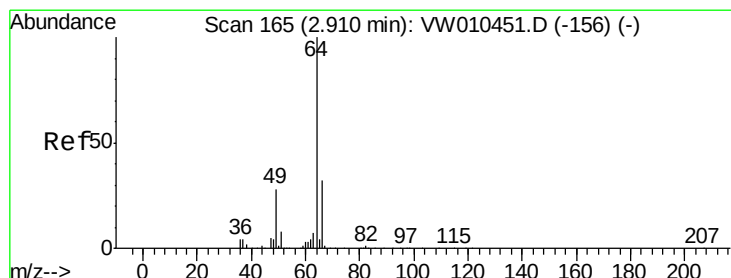
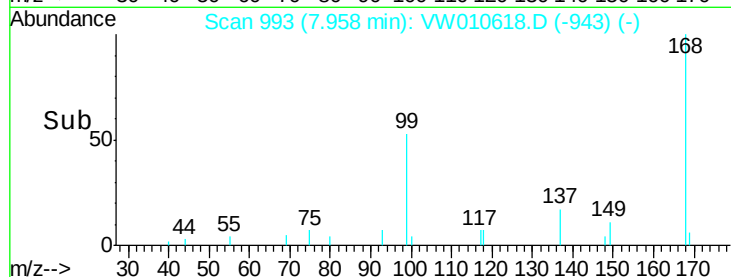
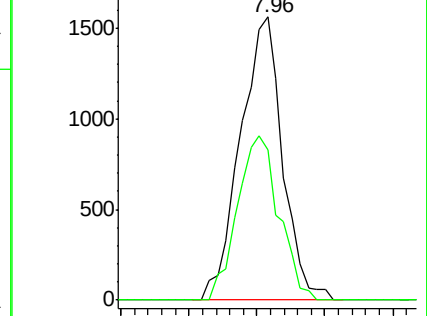
168 100

99 53.0 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#6

Chloroethane

Concen: 1.513 ug/l

RT: 2.98 min Scan# 176

Delta R.T. 0.07 min

Lab File: VW010618.D

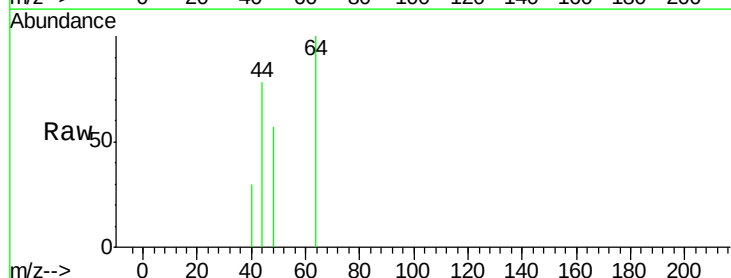
Acq: 30 May 2019 16:53

Tgt Ion: 64 Resp: 40

Ion Ratio Lower Upper

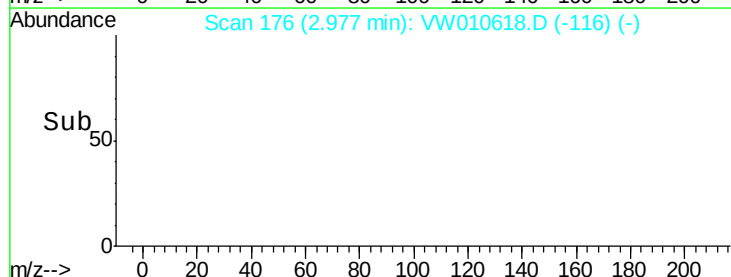
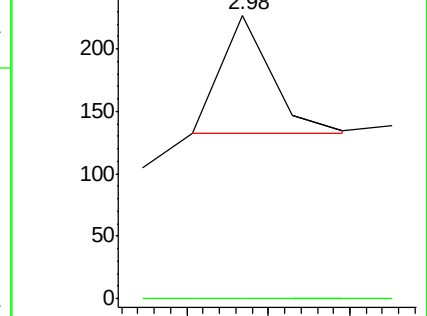
64 100

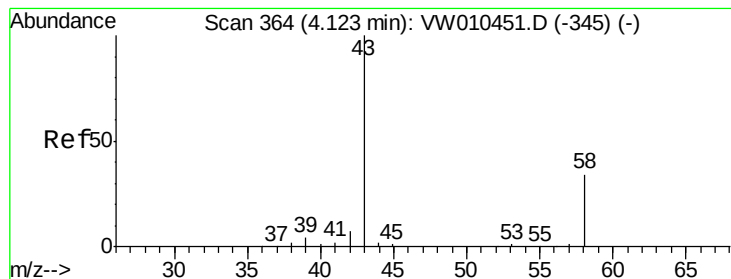
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW





#16

Acetone

Concen: 37.999 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010618.D

Acq: 30 May 2019 16:53

Instrument :

MSVOA_W

ClientSampleId :

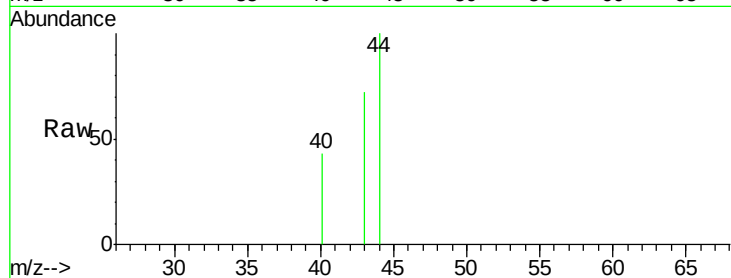
0427-HR-7(HACKENSACK)

Tot Ion: 43 Resp: 271

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

150

100

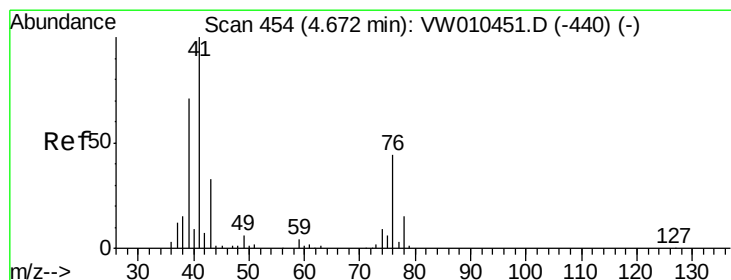
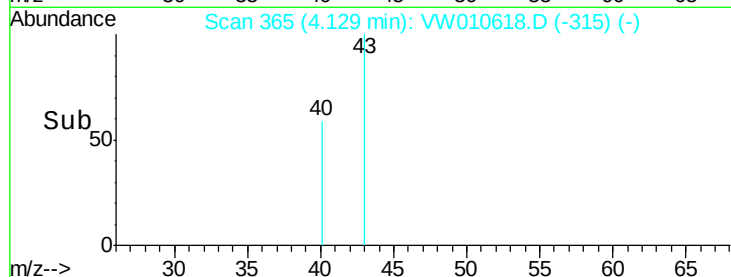
50

0

4.10 4.15

4.13

Time-->



#18

Methyl Acetate

Concen: 1.319 ug/l

RT: 4.65 min Scan# 451

Delta R.T. -0.02 min

Lab File: VW010618.D

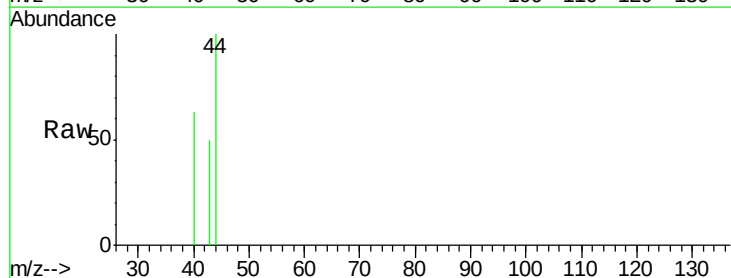
Acq: 30 May 2019 16:53

Tgt Ion: 43 Resp: 23

Ion Ratio Lower Upper

43 100

74 0.0 21.6 32.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

60

40

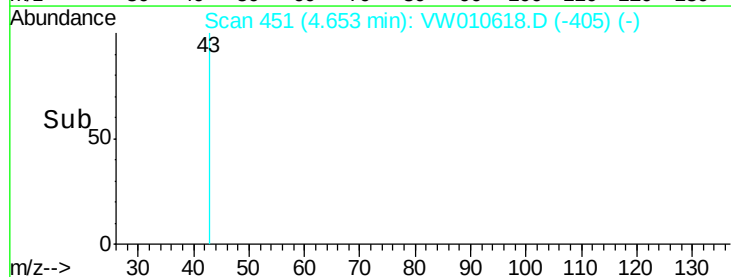
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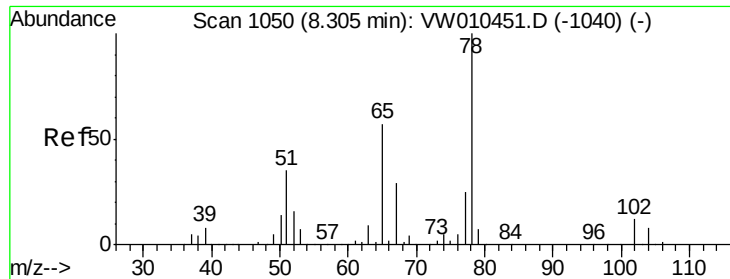
0

4.63 4.64 4.65 4.66 4.67

4.65

Time-->

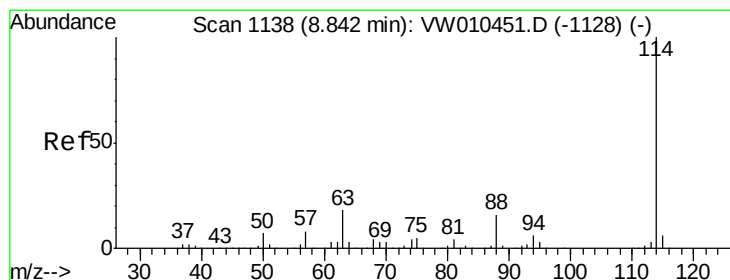
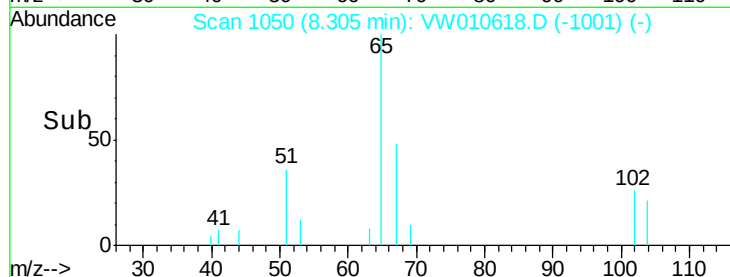
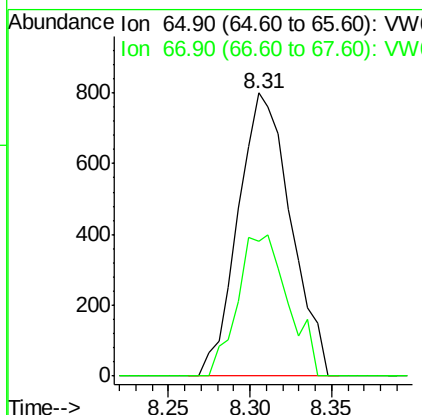
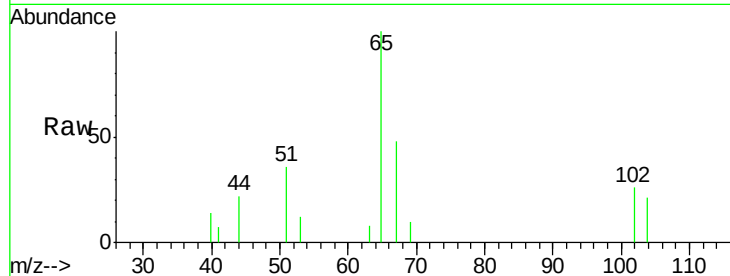




#33
 1,2-Dichloroethane-d4
 Concen: 51.576 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW010618.D
 Acq: 30 May 2019 16:53

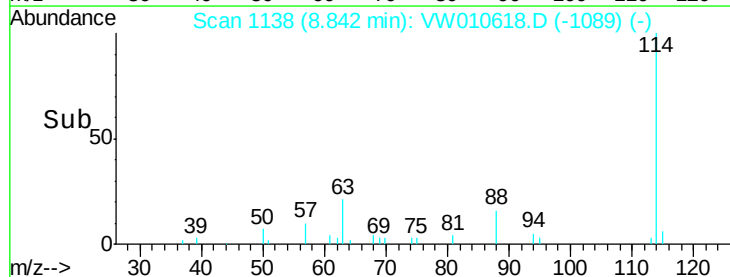
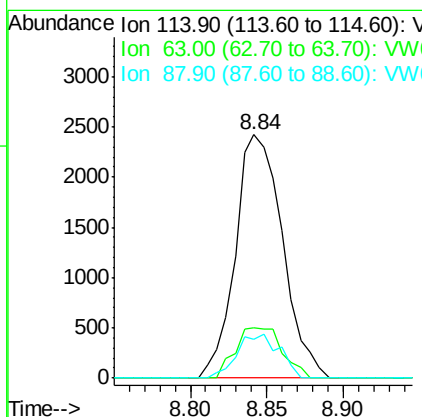
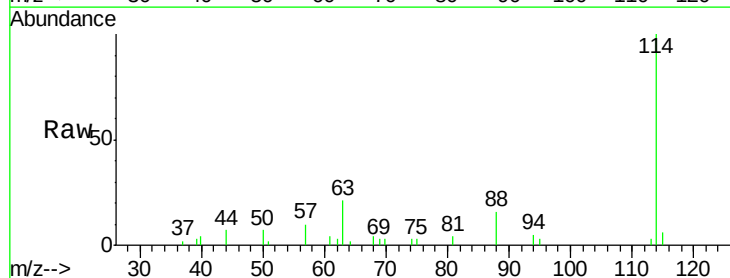
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 0427-HR-7(HACKENSACK)

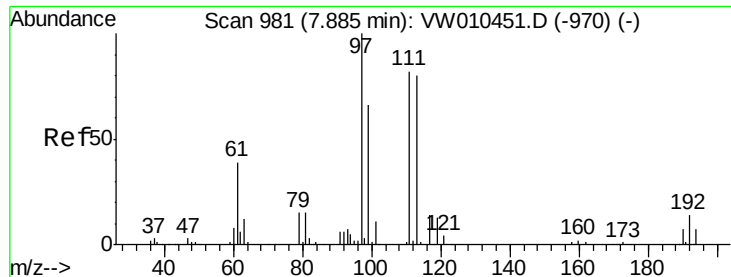
Tot Ion: 65 Resp: 1802
 Ion Ratio Lower Upper
 65 100
 67 47.7 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010618.D
 Acq: 30 May 2019 16:53

Tgt Ion: 114 Resp: 5188
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 36.0
 88 15.8 0.0 32.0

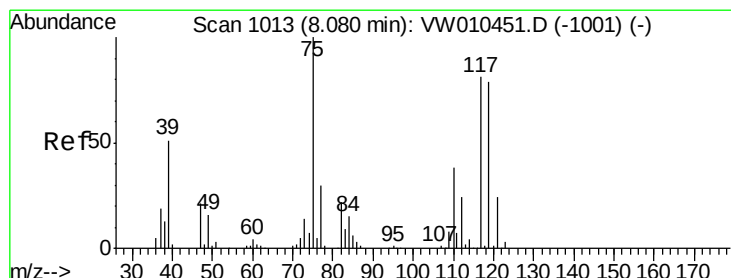
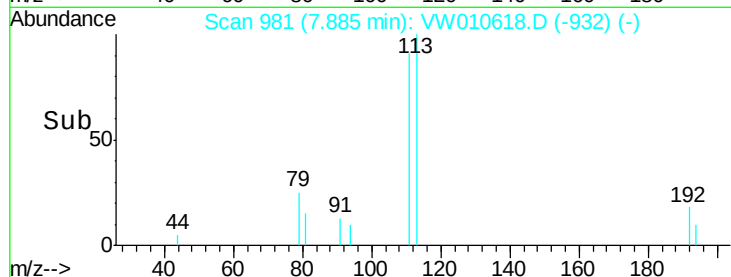
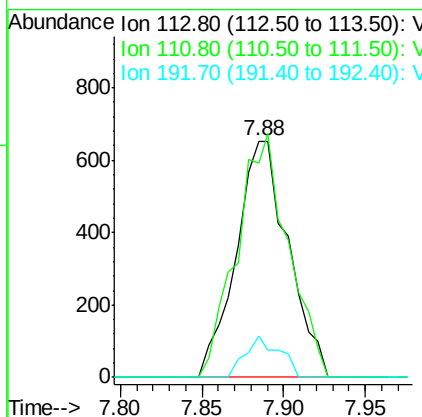
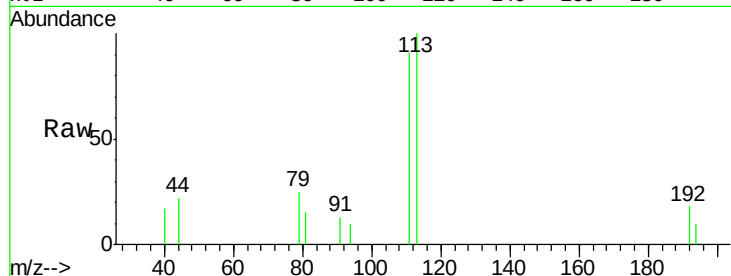




#35
 Dibromofluoromethane
 Concen: 46.061 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW010618.D
 Acq: 30 May 2019 16:53

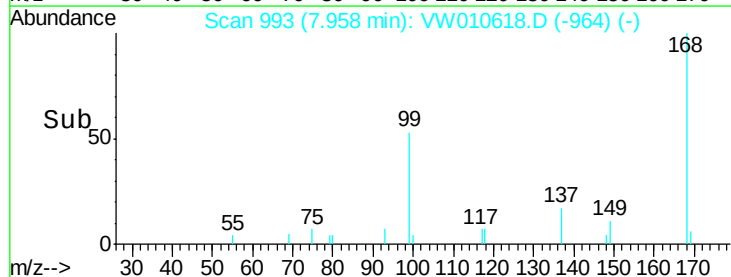
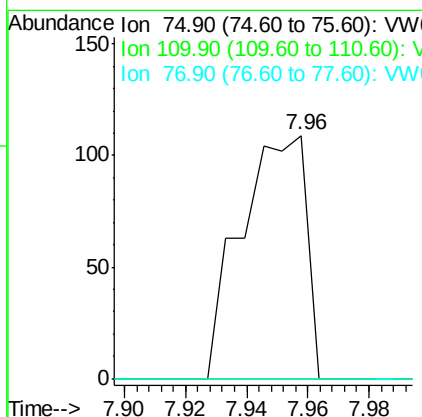
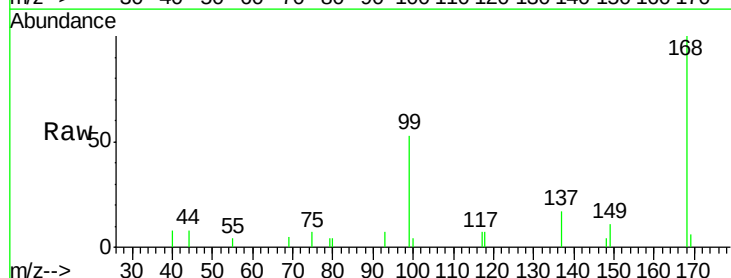
Instrument :
 MSVOA_W
 ClientSampleId :
 0427-HR-7(HACKENSACK)

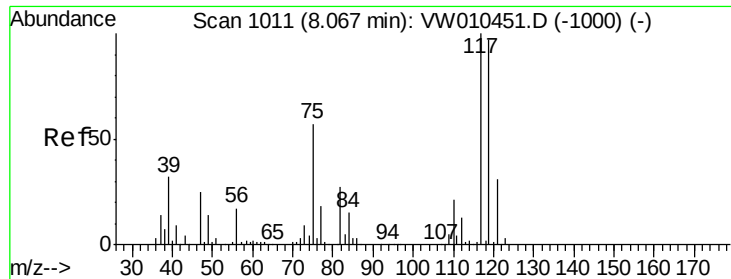
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.2	123.4
192	11.4	14.3	21.5#



#36
 1,1-Dichloropropene
 Concen: 3.331 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.12 min
 Lab File: VW010618.D
 Acq: 30 May 2019 16:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	0.0	19.2	57.6#
77	0.0	25.2	37.8#





#38

Carbon Tetrachloride

Concen: 4.623 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW010618.D

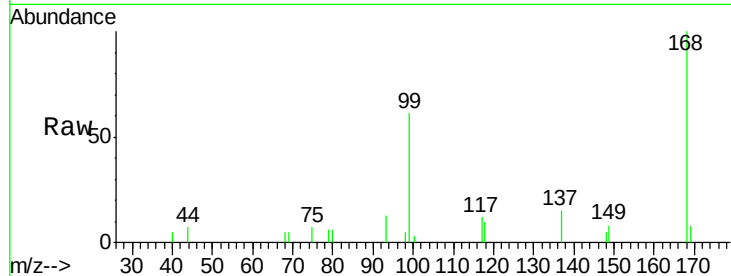
Acq: 30 May 2019 16:53

Instrument :

MSVOA_W

ClientSampleId :

0427-HR-7(HACKENSACK)



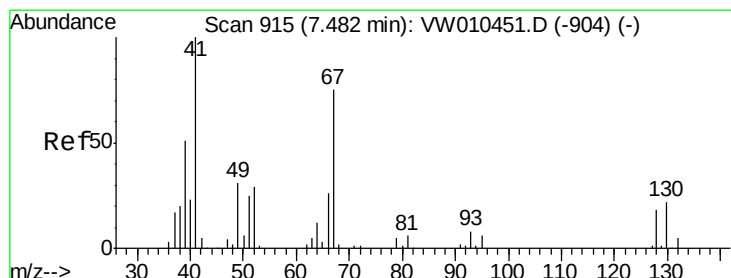
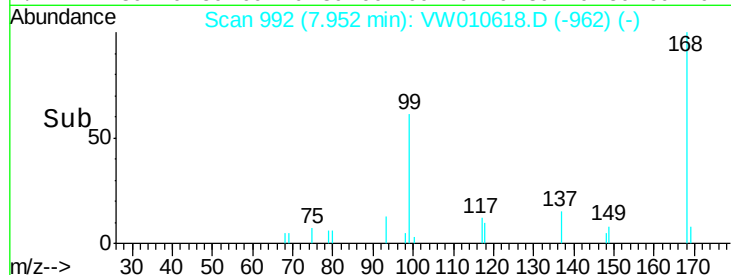
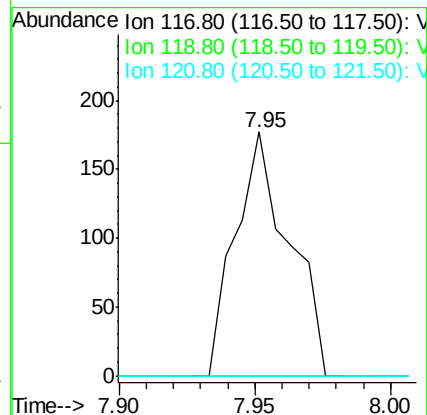
Tot Ion:117 Resp: 241

Ion Ratio Lower Upper

117 100

119 0.0 77.4 116.0#

121 0.0 25.0 37.6#



#41

Methacrylonitrile

Concen: 1.556 ug/l

RT: 7.65 min Scan# 942

Delta R.T. 0.16 min

Lab File: VW010618.D

Acq: 30 May 2019 16:53

Tgt Ion: 41 Resp: 19

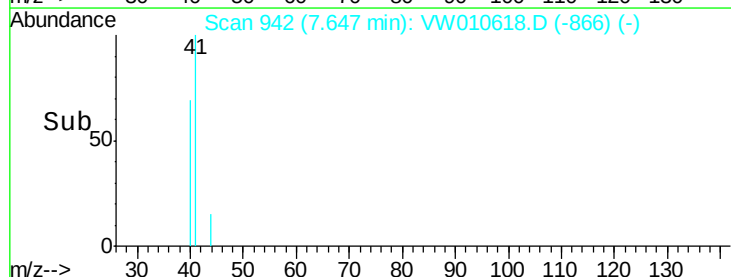
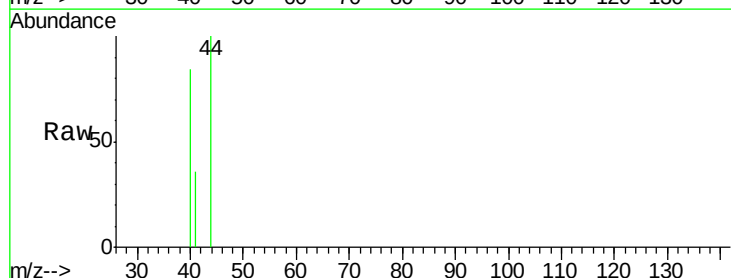
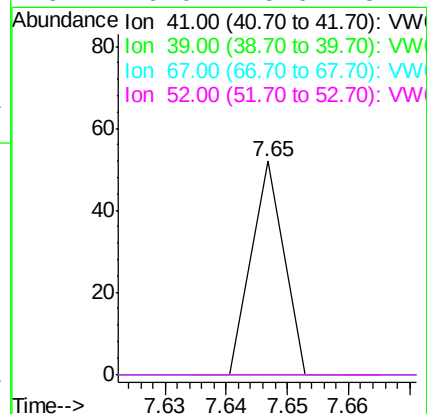
Ion Ratio Lower Upper

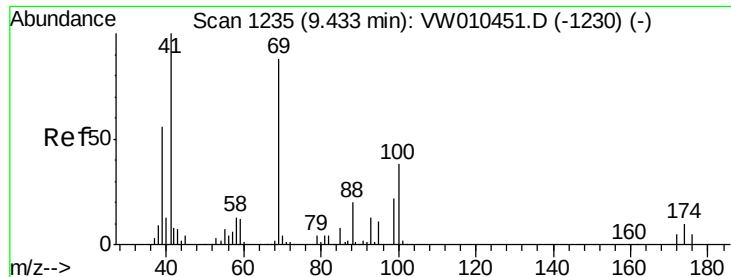
41 100

39 0.0 47.4 71.2#

67 0.0 65.5 98.3#

52 0.0 25.0 37.4#

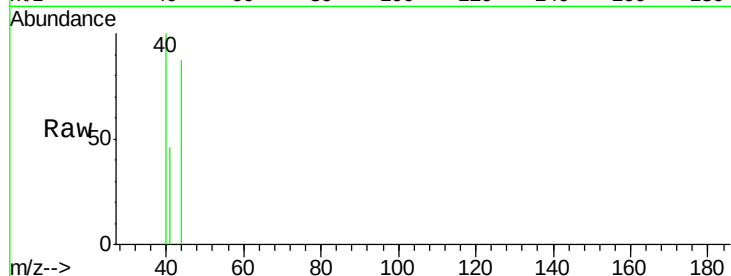




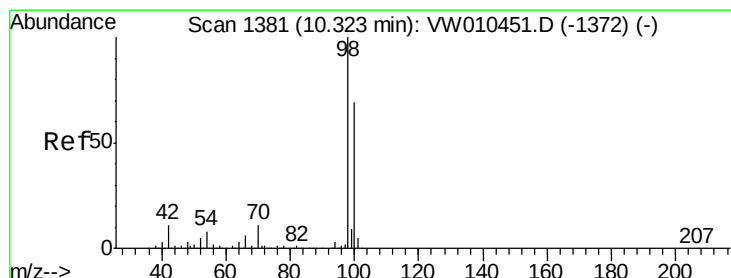
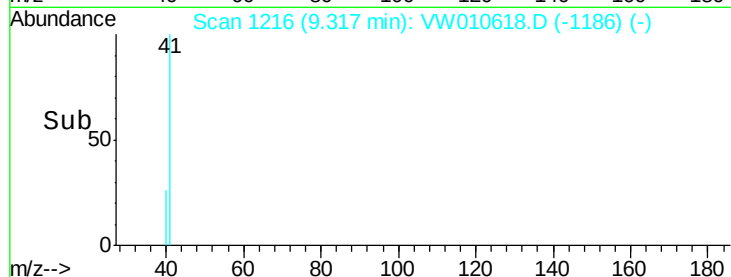
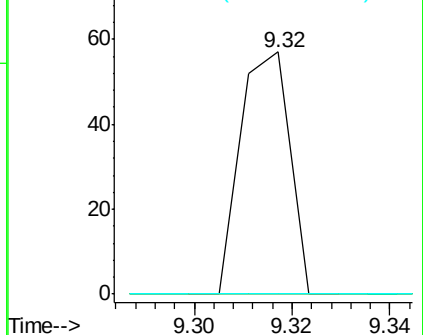
#48
Methvl methacrylate
Concen: 2.130 ug/l
RT: 9.32 min Scan# 1216
Delta R.T. -0.12 min
Lab File: VW010618.D
Acq: 30 May 2019 16:53

Instrument :
MSVOA_W
ClientSampleId :
0427-HR-7(HACKENSACK)

Tot Ion: 41 Resp: 40
Ion Ratio Lower Upper
41 100
69 0.0 77.6 116.4#
39 0.0 49.8 74.8#

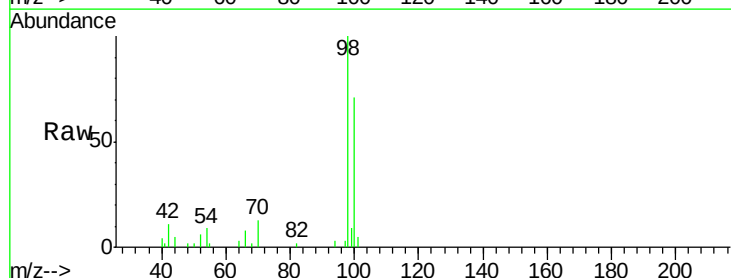


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 39.00 (38.70 to 39.70): VW

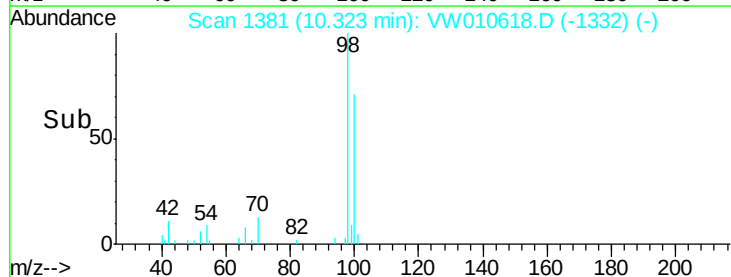
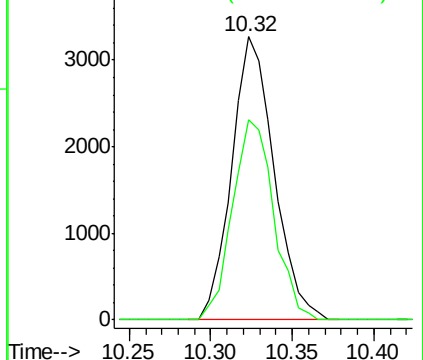


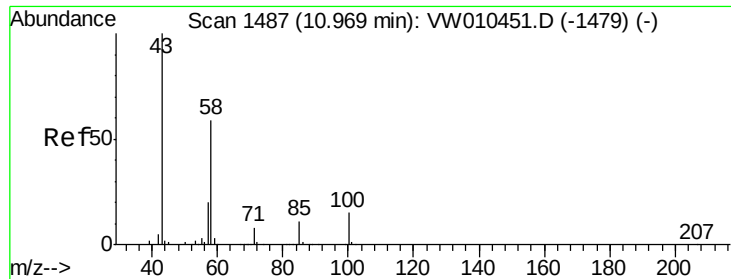
#50
Toluene-d8
Concen: 49.060 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010618.D
Acq: 30 May 2019 16:53

Tgt Ion: 98 Resp: 5900
Ion Ratio Lower Upper
98 100
100 69.1 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW

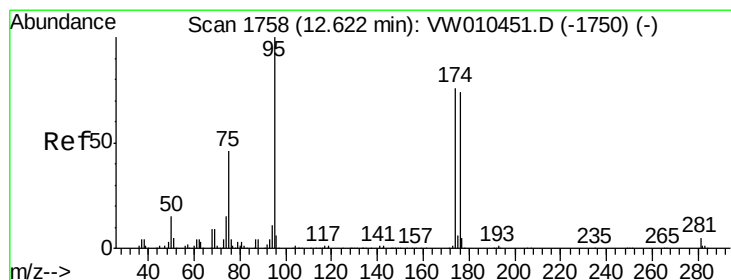
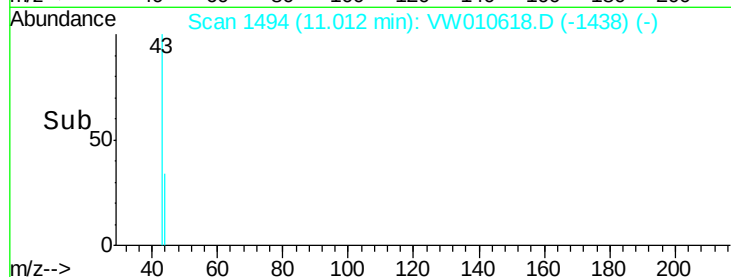
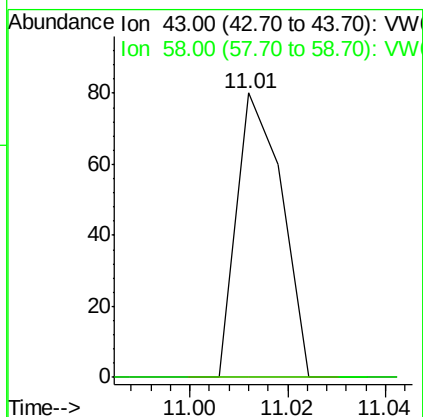
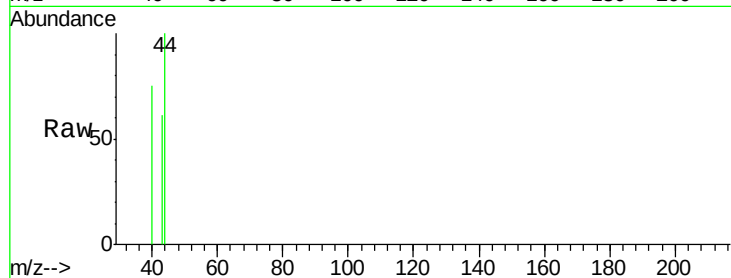




#59
2-Hexanone
Concen: 3.436 ug/l
RT: 11.01 min Scan# 1494
Delta R.T. 0.04 min
Lab File: VW010618.D
Acq: 30 May 2019 16:53

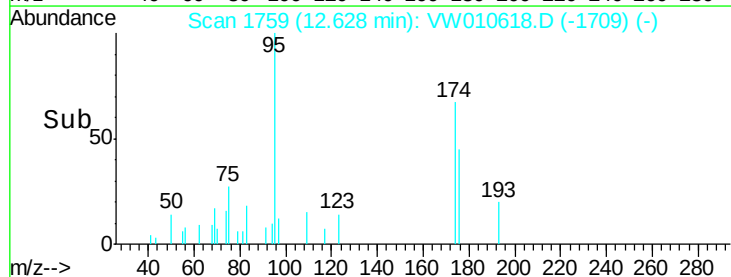
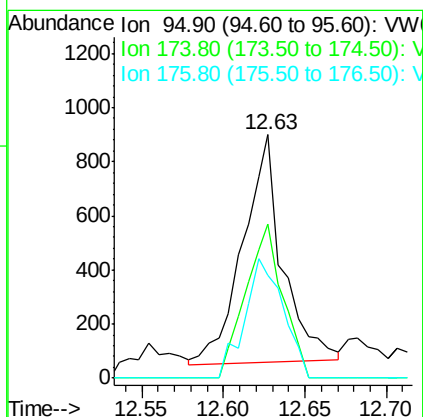
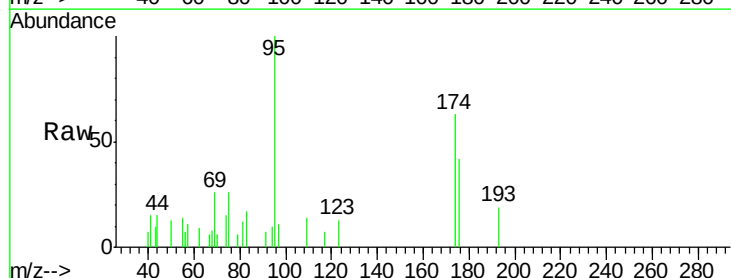
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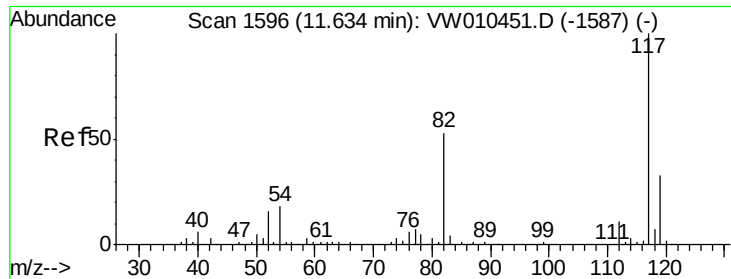
Tot Ion: 43 Resp: 51
Ion Ratio Lower Upper
43 100
58 0.0 28.9 86.8#



#62
4-Bromofluorobenzene
Concen: 29.874 ug/l
RT: 12.63 min Scan# 1759
Delta R.T. 0.01 min
Lab File: VW010618.D
Acq: 30 May 2019 16:53

Tgt Ion: 95 Resp: 1431
Ion Ratio Lower Upper
95 100
174 62.8 0.0 148.6
176 50.8 0.0 144.2

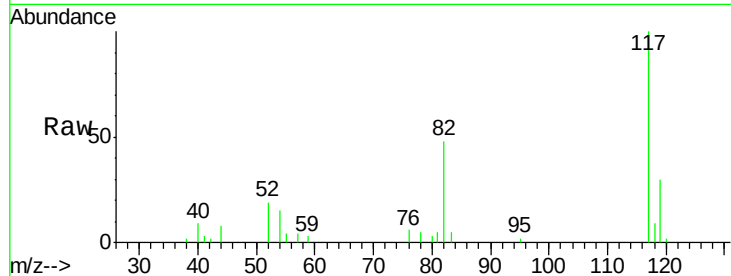




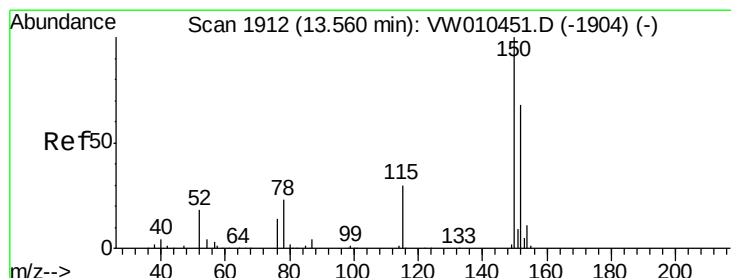
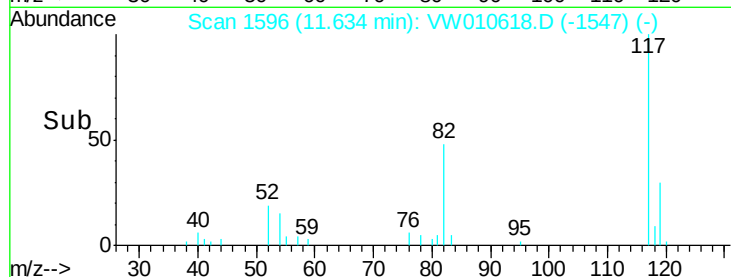
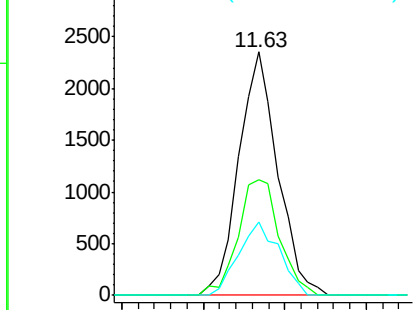
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010618.D
Acq: 30 May 2019 16:53

Instrument :
MSVOA_W
ClientSampleId :
0427-HR-7(HACKENSACK)

Tot Ion:117 Resp: 3903
Ion Ratio Lower Upper
117 100
82 47.6 42.8 64.2
119 30.1 26.3 39.5

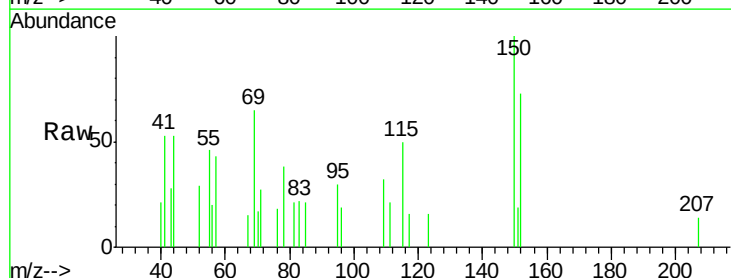


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

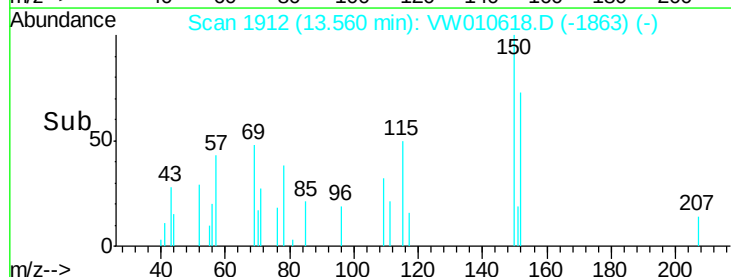
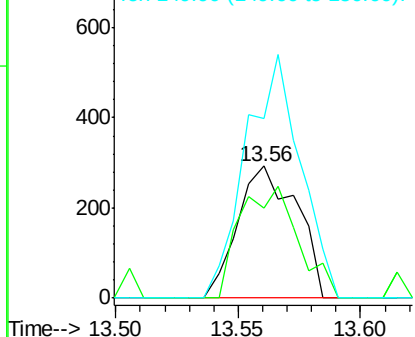


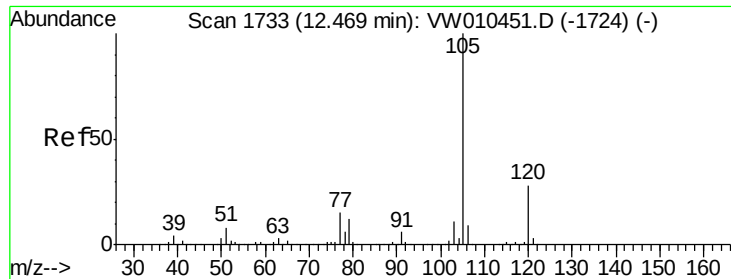
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW010618.D
Acq: 30 May 2019 16:53

Tgt Ion:152 Resp: 491
Ion Ratio Lower Upper
152 100
115 83.1 30.3 91.0
150 170.5 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





#73

Isopropylbenzene

Concen: 1.309 ug/l

RT: 12.43 min Scan# 1726

Delta R.T. -0.04 min

Lab File: VW010618.D

Acq: 30 May 2019 16:53

Instrument :

MSVOA_W

ClientSampleId :

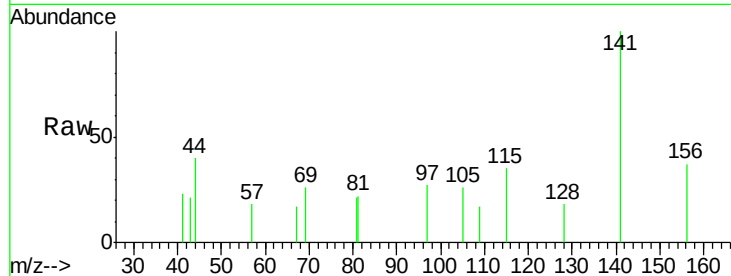
0427-HR-7(HACKENSACK)

Tot Ion:105 Resp: 51

Ion Ratio Lower Upper

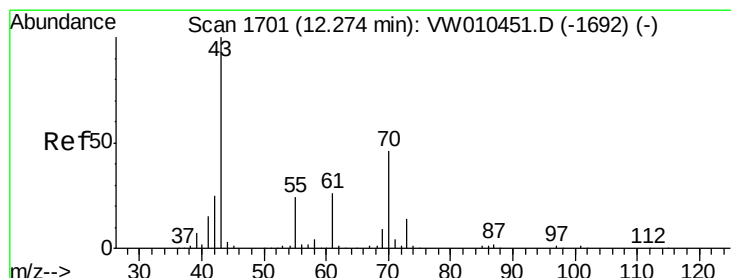
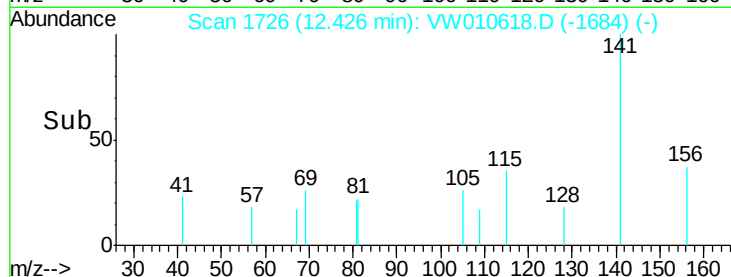
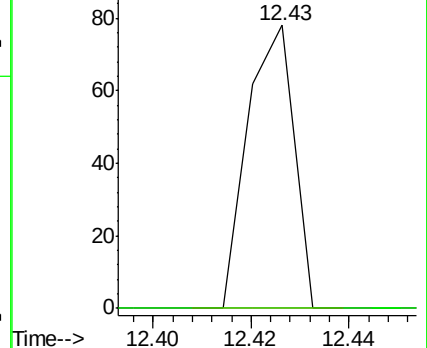
105 100

120 0.0 13.9 41.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 4.592 ug/l

RT: 12.29 min Scan# 1703

Delta R.T. 0.01 min

Lab File: VW010618.D

Acq: 30 May 2019 16:53

Tgt Ion: 43 Resp: 41

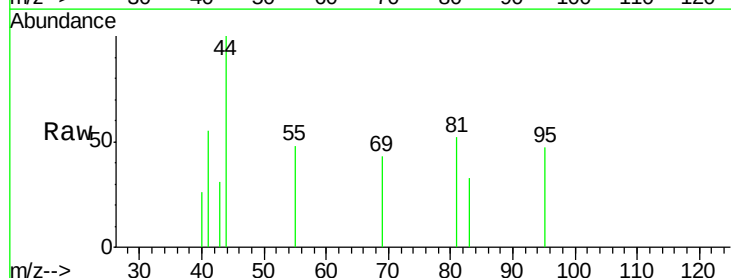
Ion Ratio Lower Upper

43 100

70 0.0 37.1 55.7#

55 1007.3 19.6 29.4#

61 0.0 20.7 31.1#

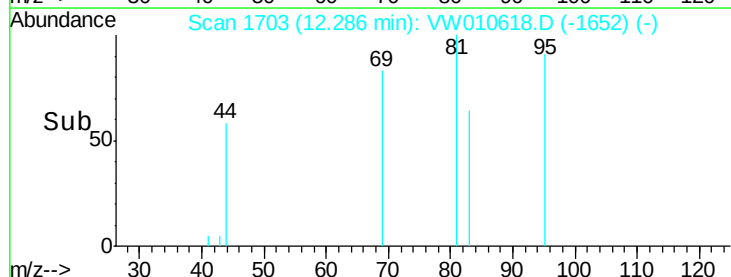
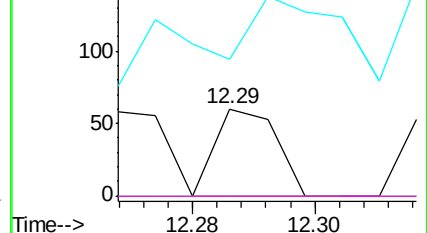


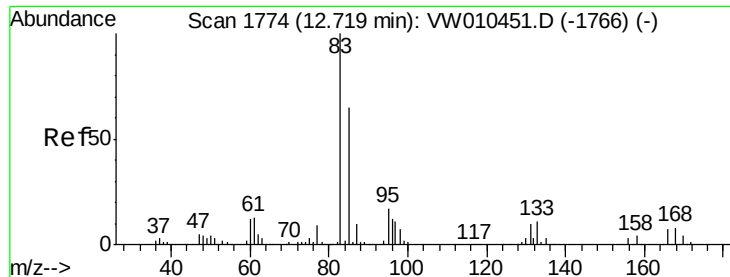
Abundance Ion 43.00 (42.70 to 43.70): VW

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: 4.374 ug/l

RT: 12.73 min Scan# 1775

Delta R.T. 0.01 min

Lab File: VW010618.D

Acq: 30 May 2019 16:53

Instrument :

MSVOA_W

ClientSampleId :

0427-HR-7(HACKENSACK)

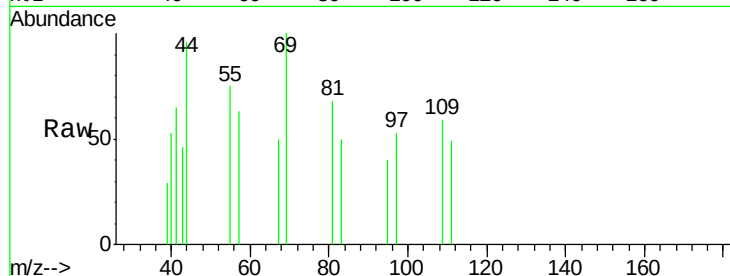
Tot Ion: 83 Resp: 31

Ion Ratio Lower Upper

83 100

131 0.0 5.6 16.8#

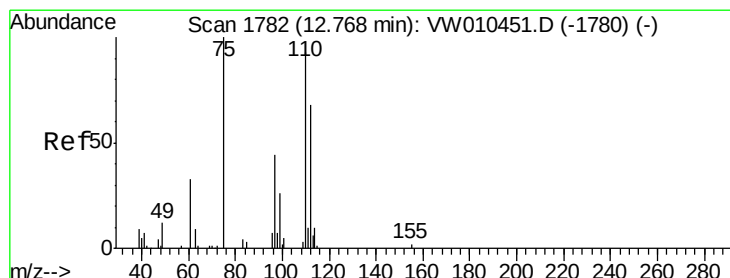
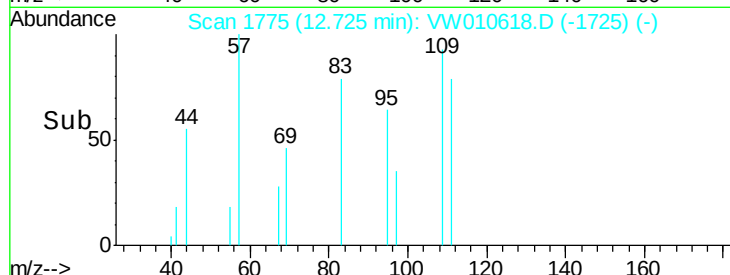
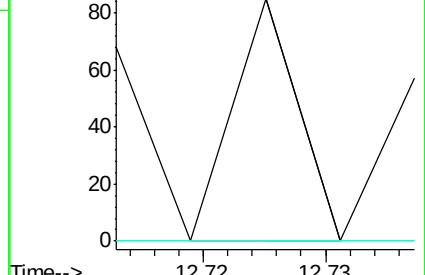
85 0.0 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 112.962 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010618.D

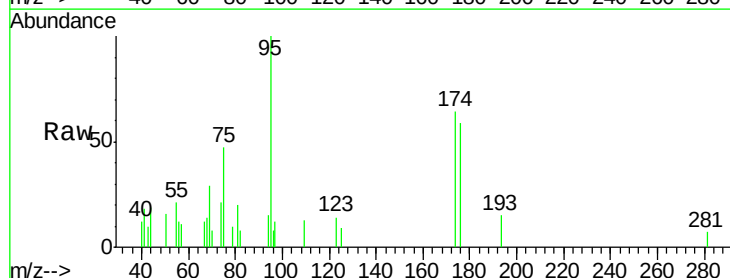
Acq: 30 May 2019 16:53

Tgt Ion: 75 Resp: 563

Ion Ratio Lower Upper

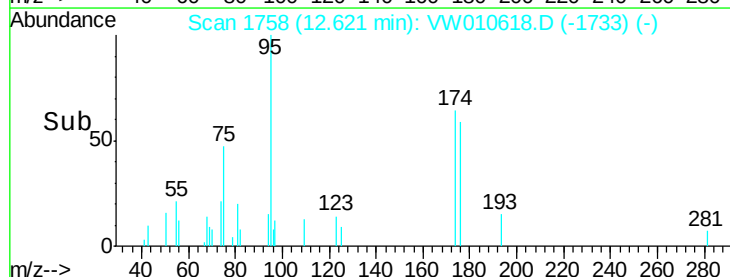
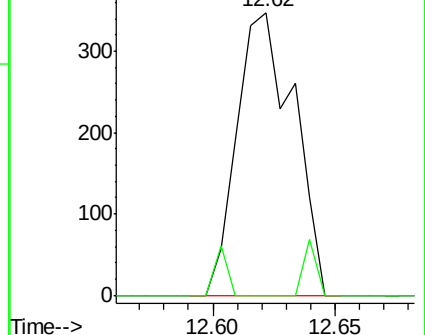
75 100

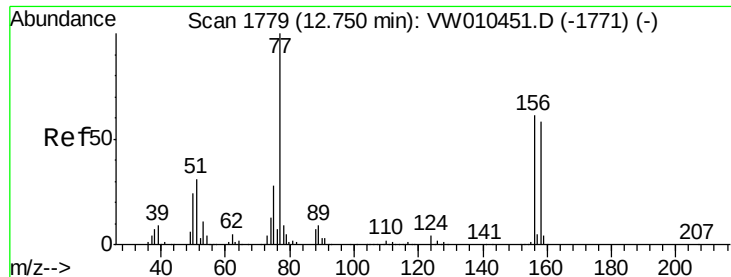
77 4.4 170.0 510.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 30.508 ug/l

RT: 12.82 min Scan# 1791

Delta R.T. 0.07 min

Lab File: VW010618.D

Acq: 30 May 2019 16:53

Instrument :

MSVOA_W

ClientSampleId :

0427-HR-7(HACKENSACK)

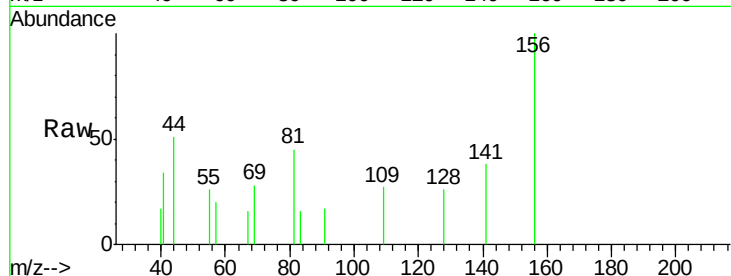
Tot Ion:156 Resp: 266

Ion Ratio Lower Upper

156 100

77 0.0 92.4 277.2#

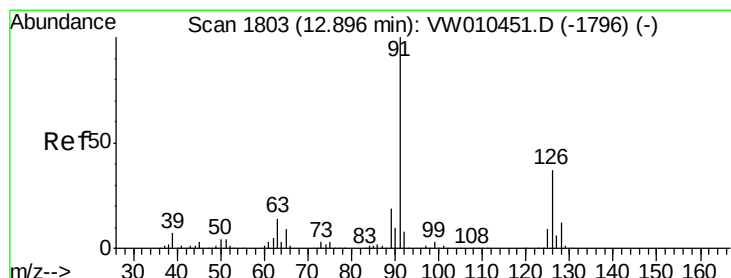
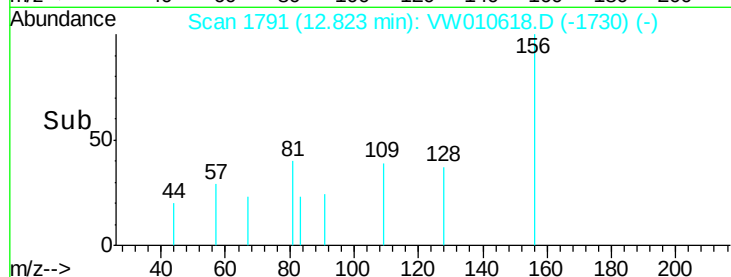
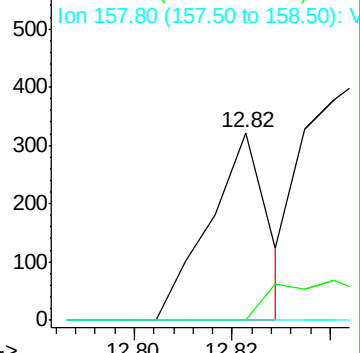
158 0.0 48.3 144.8#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#79

2-Chlorotoluene

Concen: 6.874 ug/l

RT: 12.91 min Scan# 1805

Delta R.T. 0.01 min

Lab File: VW010618.D

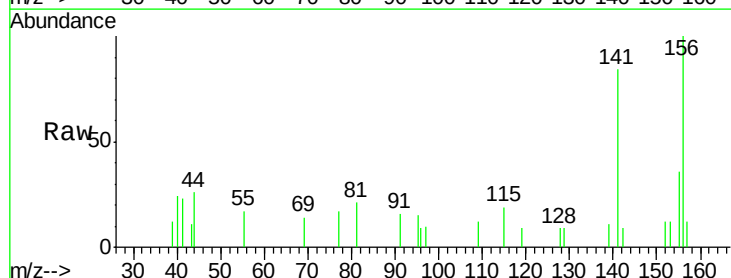
Acq: 30 May 2019 16:53

Tgt Ion: 91 Resp: 181

Ion Ratio Lower Upper

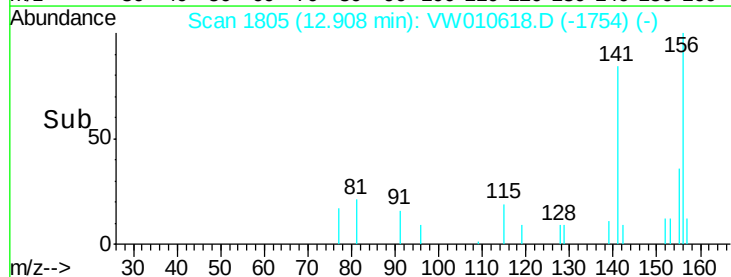
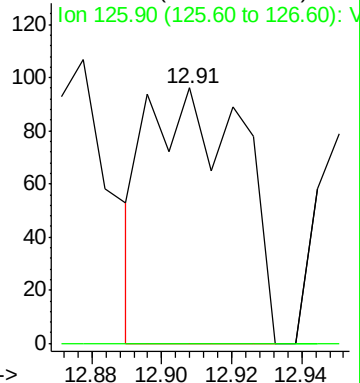
91 100

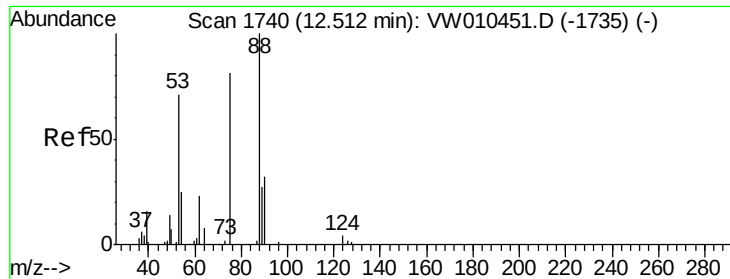
126 0.0 17.4 52.3#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V

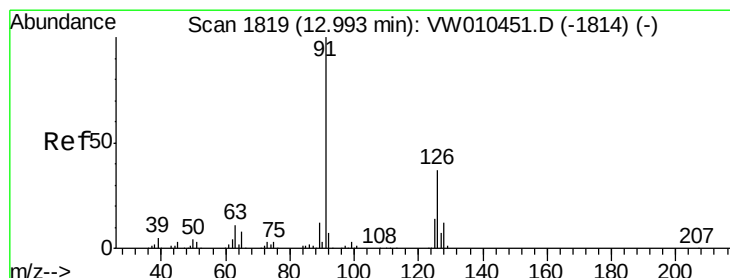
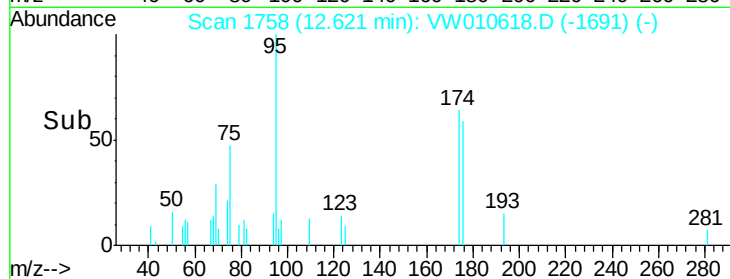
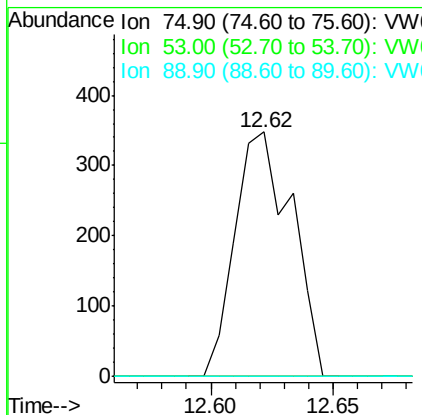
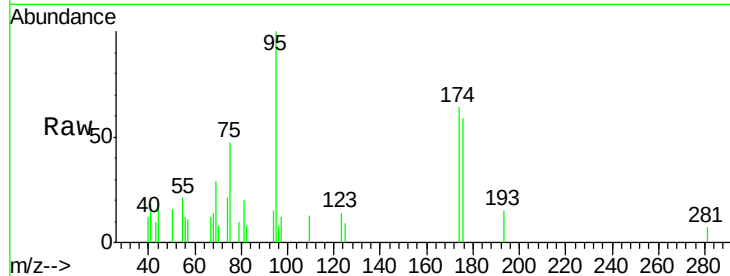




#81
trans-1,4-Dichloro-2-butene
Concen: 235.755 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.11 min
Lab File: VW010618.D
Acq: 30 May 2019 16:53

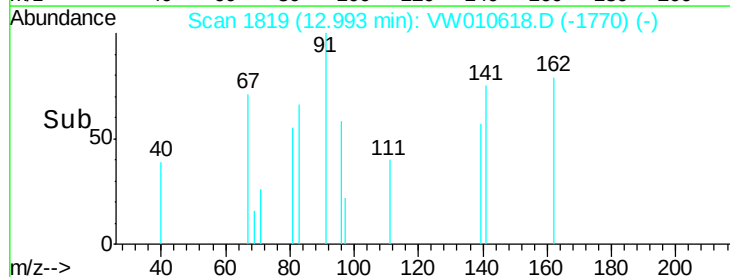
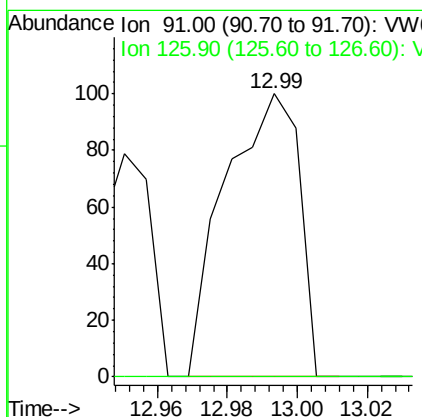
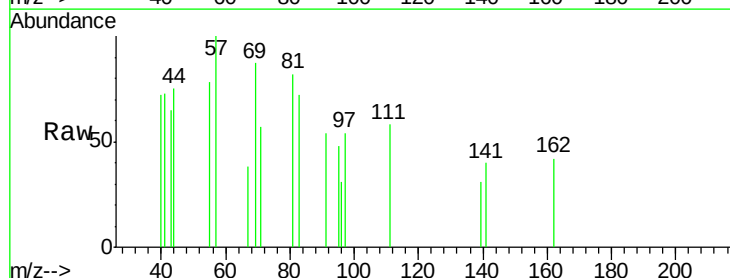
Instrument :
MSVOA_W
ClientSampleId :
0427-HR-7(HACKENSACK)

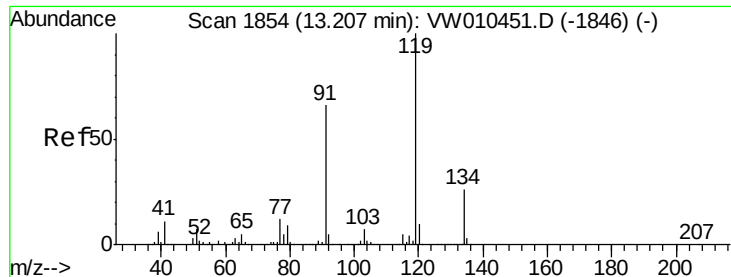
Tot Ion: 75 Resp: 563
Ion Ratio Lower Upper
75 100
53 0.0 69.8 104.8#
89 0.0 39.5 59.3#



#82
4-Chlorotoluene
Concen: 5.378 ug/l
RT: 12.99 min Scan# 1819
Delta R.T. -0.00 min
Lab File: VW010618.D
Acq: 30 May 2019 16:53

Tgt Ion: 91 Resp: 147
Ion Ratio Lower Upper
91 100
126 0.0 17.5 52.6#





#83

tert-Butylbenzene

Concen: 3.053 ug/l

RT: 13.22 min Scan# 1856

Delta R.T. 0.01 min

Lab File: VW010618.D

Acq: 30 May 2019 16:53

Instrument:

MSVOA_W

ClientSampleId:

0427-HR-7(HACKENSACK)

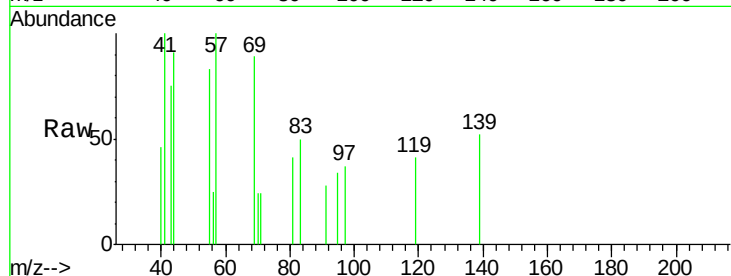
Tot Ion:119 Resp: 88

Ion Ratio Lower Upper

119 100

91 83.0 33.1 99.5

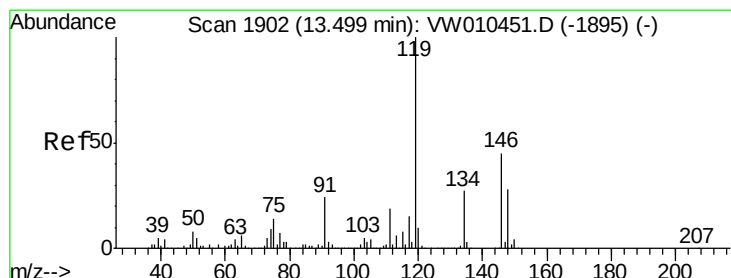
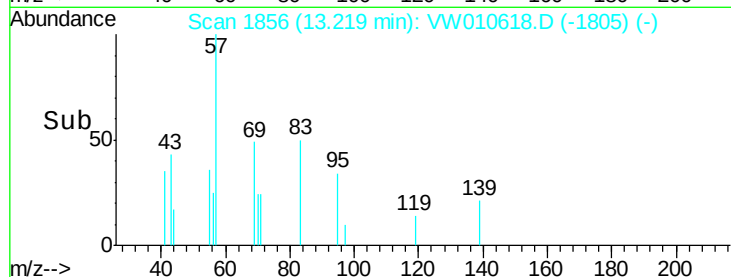
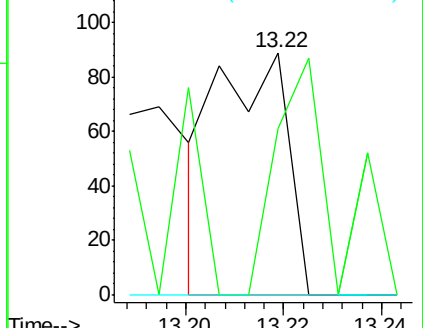
134 0.0 13.9 41.6#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VW

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.657 ug/l

RT: 13.62 min Scan# 1922

Delta R.T. 0.12 min

Lab File: VW010618.D

Acq: 30 May 2019 16:53

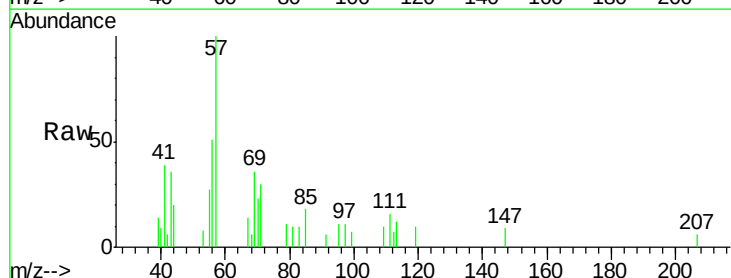
Tgt Ion:119 Resp: 97

Ion Ratio Lower Upper

119 100

134 0.0 13.6 40.7#

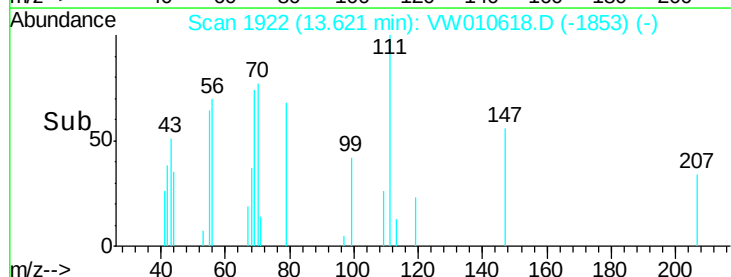
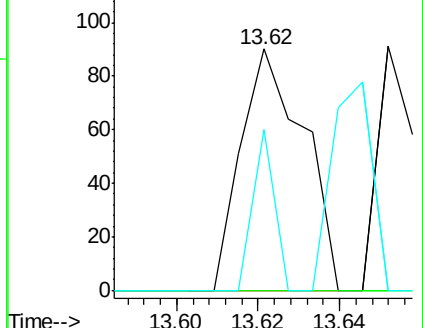
91 22.7 11.9 35.7

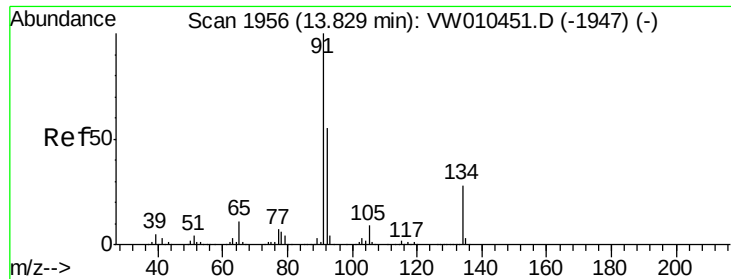


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VW





#89

n-Butylbenzene

Concen: 4.406 ug/l

RT: 13.80 min Scan# 1952

Delta R.T. -0.02 min

Lab File: VW010618.D

Acq: 30 May 2019 16:53

Instrument :

MSVOA_W

ClientSampleId :

0427-HR-7(HACKENSACK)

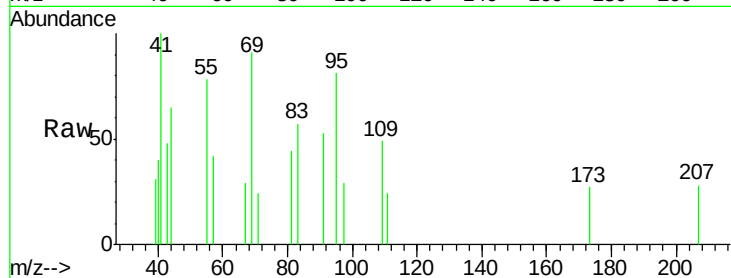
Tot Ion: 91 Resp: 153

Ion Ratio Lower Upper

91 100

92 0.0 27.7 83.1#

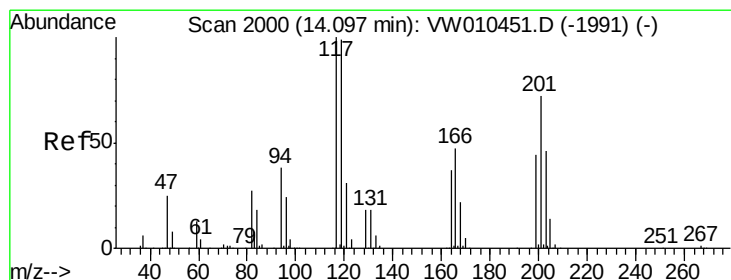
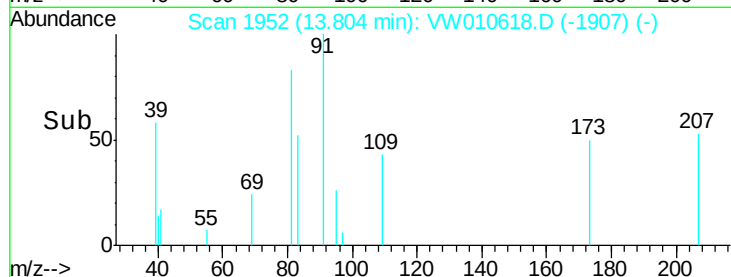
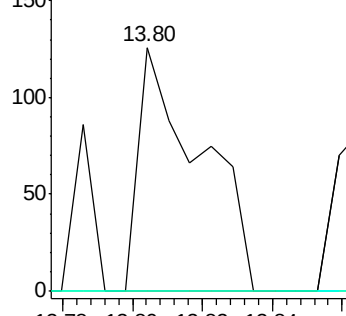
134 0.0 13.9 41.6#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 2.689 ug/l

RT: 14.06 min Scan# 1994

Delta R.T. -0.04 min

Lab File: VW010618.D

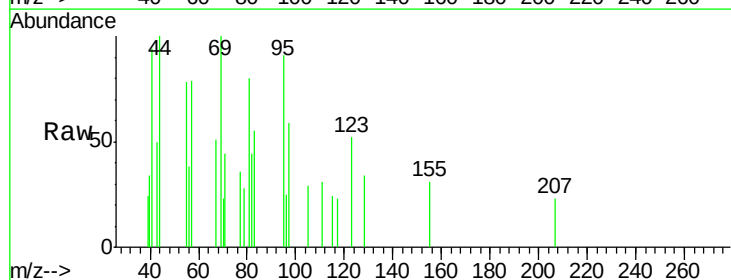
Acq: 30 May 2019 16:53

Tgt Ion: 117 Resp: 19

Ion Ratio Lower Upper

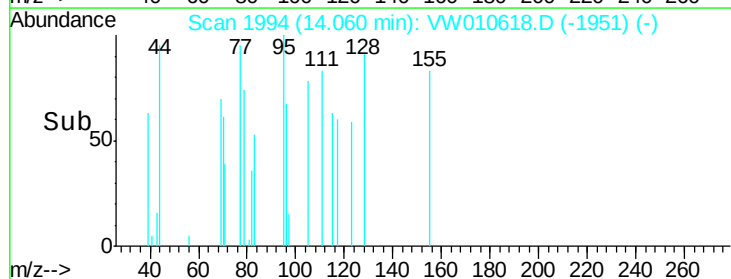
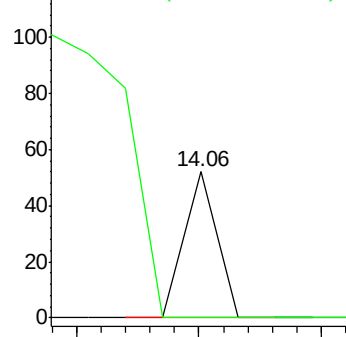
117 100

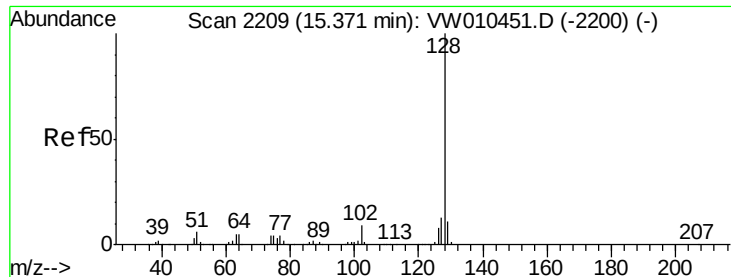
201 0.0 34.6 103.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

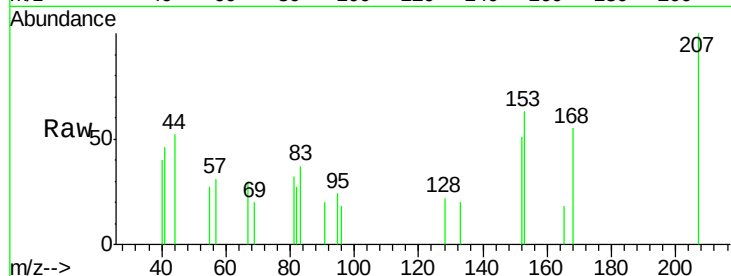




#95
 Naphthalene
 Concen: 1.977 ug/l
 RT: 15.38 min Scan# 2210
 Delta R.T. 0.01 min
 Lab File: VW010618.D
 Acq: 30 May 2019 16:53

Instrument :
 MSVOA_W
 ClientSampleId :
 0427-HR-7(HACKENSACK)

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8#
129	0.0	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

