

Data File : VW010633.D
Acq On : 31 May 2019 13:38
Operator : SY/VA
Sample : K3097-16
Misc : 5.00G/5ML/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
0436-HR-16(HACKENSACK)

Quant Time: Jun 01 04:49:15 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	7.95	168	151710	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	266794	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	224924	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	92926	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	88741	56.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.34%	
35) Dibromofluoromethane	7.88	113	81318	50.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.46%	
50) Toluene-d8	10.32	98	317023	51.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.52%	
62) 4-Bromofluorobenzene	12.62	95	110548	44.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.76%	

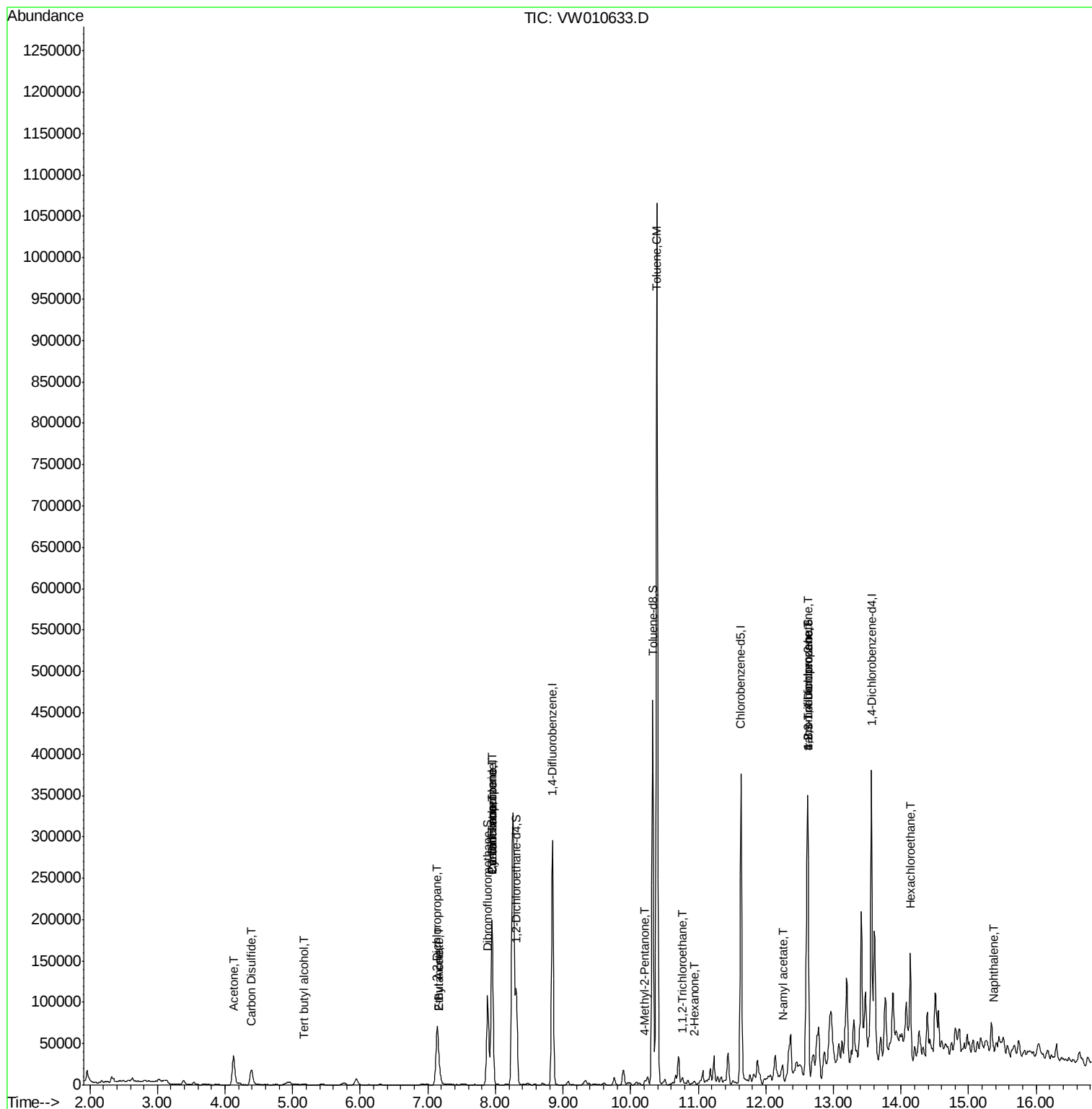
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	2.00	85	265	Below Cal	#	42
11) Tert butyl alcohol	5.17	59	2446	17.366	ug/l	96
13) Acrolein	3.90	56	383	Below Cal	#	51
16) Acetone	4.12	43	60207	188.361	ug/l	98
17) Carbon Disulfide	4.38	76	6941	1.452	ug/l #	94
20) Methylene Chloride	4.92	84	1514	Below Cal	#	70
25) 2-Butanone	7.17	43	16439	35.938	ug/l	94
26) 2,2-Dichloropropane	7.13	77	5011	1.853	ug/l #	52
31) Cyclohexane	7.95	56	3342	1.124	ug/l #	2
36) 1,1-Dichloropropene	7.95	75	11175	4.496	ug/l #	48
37) Ethyl Acetate	7.17	43	16439	15.554	ug/l #	67
38) Carbon Tetrachloride	7.95	117	15631	5.830	ug/l #	15
51) 4-Methyl-2-Pentanone	10.21	43	4675	4.370	ug/l	88
52) Toluene	10.39	92	484412	104.419	ug/l	98
55) 1,1,2-Trichloroethane	10.76	97	2940	2.131	ug/l #	26
59) 2-Hexanone	10.93	43	2282	2.990	ug/l #	22
74) N-amyl acetate	12.25	43	4950	2.929	ug/l #	66
76) 1,2,3-Trichloropropane	12.62	75	52865	56.045	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	52865	116.968	ug/l #	14
90) Hexachloroethane	14.14	117	5273	3.942	ug/l #	15
95) Naphthalene	15.37	128	4472	1.061	ug/l #	77

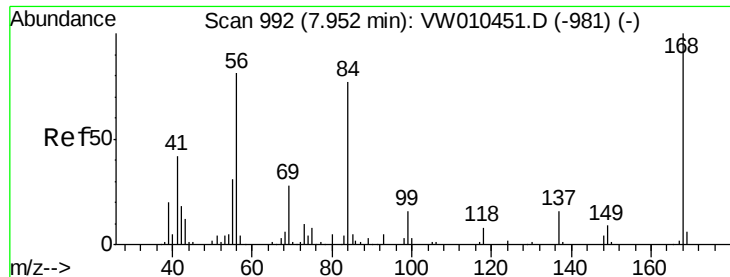
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW010633.D

Acq: 31 May 2019 13:38

Instrument :

MSVOA_W

ClientSampleId :

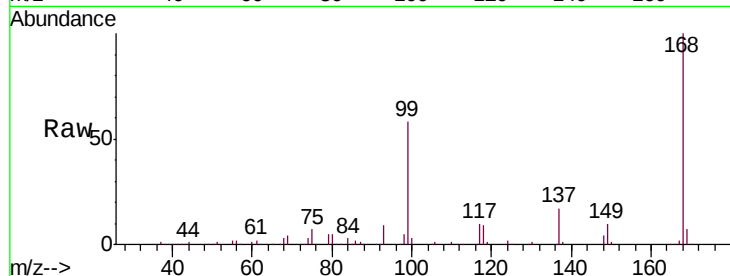
0436-HR-16(HACKENSACK)

Tgt Ion:168 Resp: 151710

Ion Ratio Lower Upper

168 100

99 58.5 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

60000

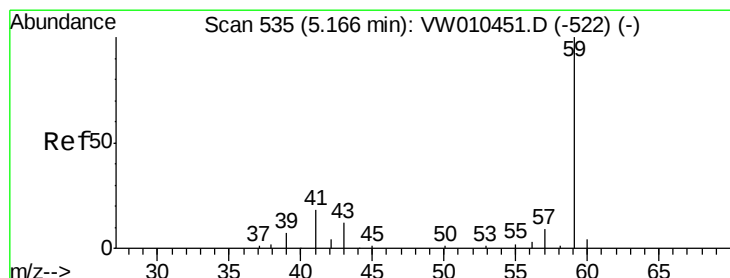
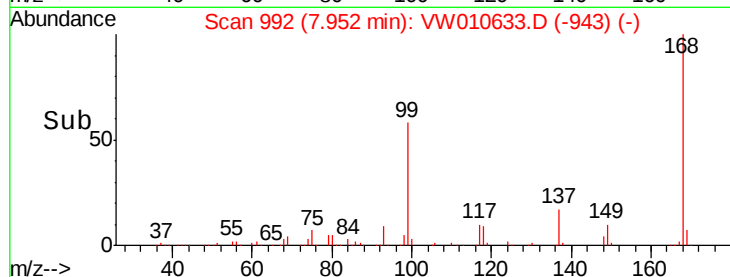
40000

20000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#11

Tert butyl alcohol

Concen: 17.366 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.01 min

Lab File: VW010633.D

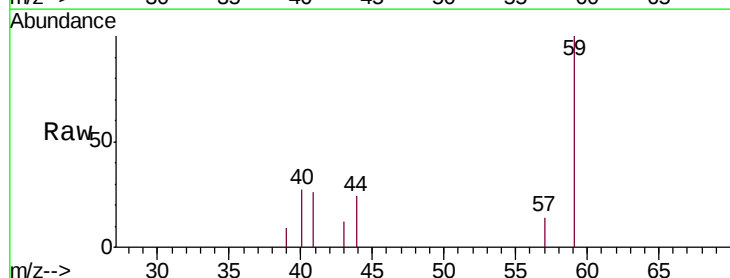
Acq: 31 May 2019 13:38

Tgt Ion: 59 Resp: 2446

Ion Ratio Lower Upper

59 100

57 9.3 8.8 13.2



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

800

600

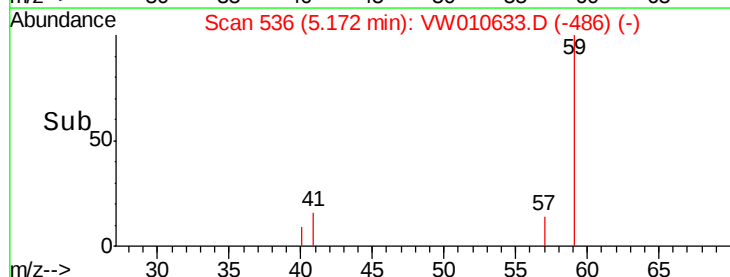
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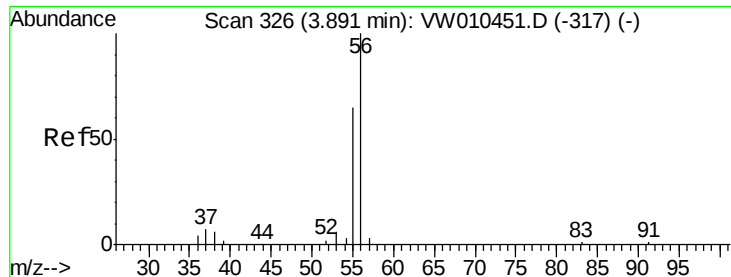
200

0

5.10 5.20

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.90 min Scan# 328

Delta R.T. 0.01 min

Lab File: VW010633.D

Acq: 31 May 2019 13:38

Instrument :

MSVOA_W

ClientSampleId :

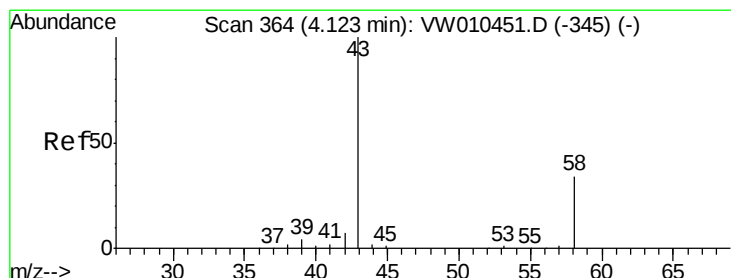
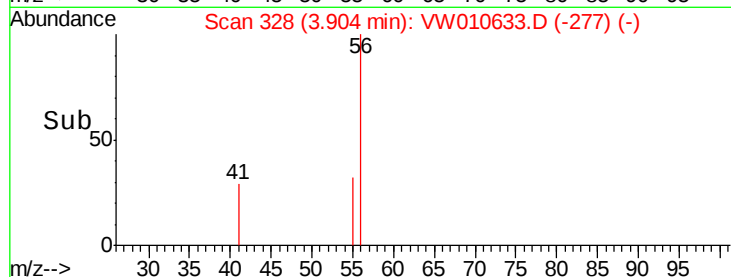
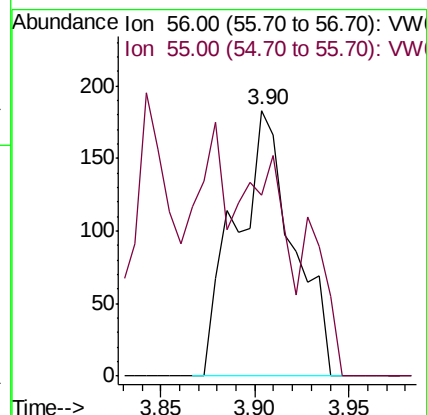
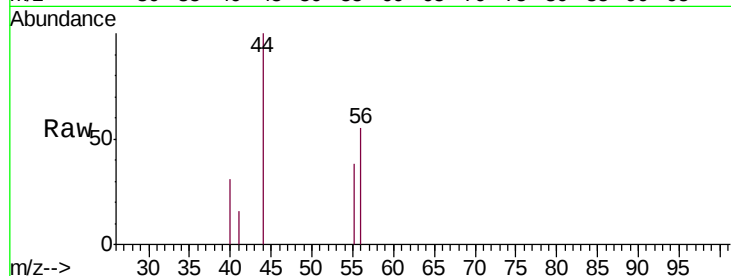
0436-HR-16(HACKENSACK)

Tgt Ion: 56 Resp: 383

Ion Ratio Lower Upper

56 100

55 31.3 57.9 86.9#



#16

Acetone

Concen: 188.361 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

Lab File: VW010633.D

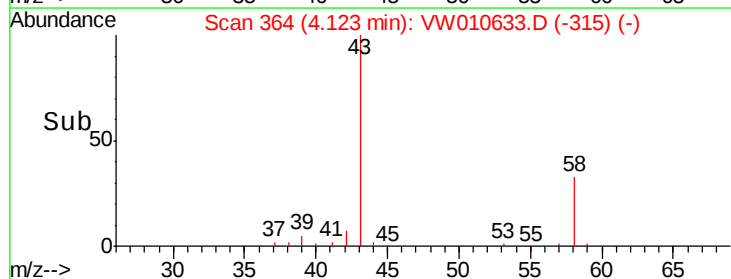
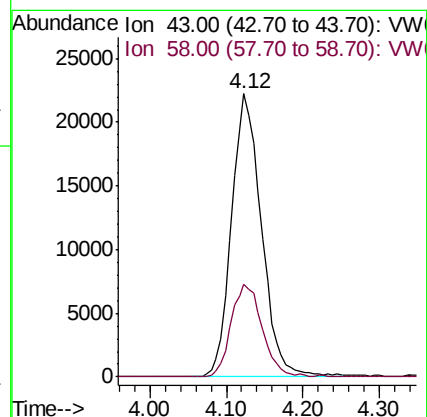
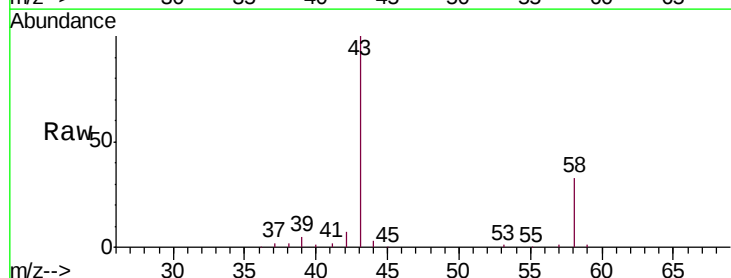
Acq: 31 May 2019 13:38

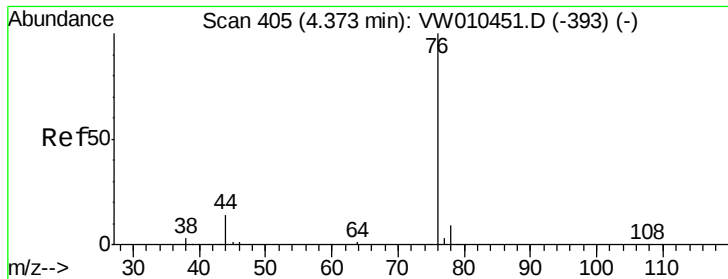
Tgt Ion: 43 Resp: 60207

Ion Ratio Lower Upper

43 100

58 32.8 27.0 40.4

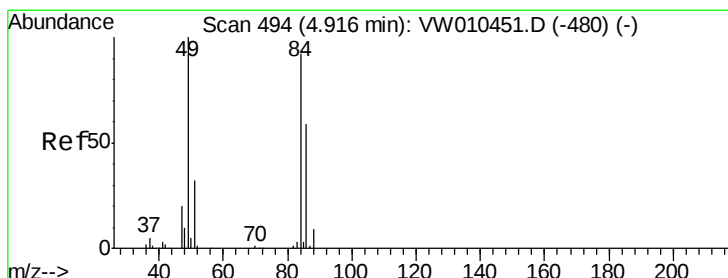
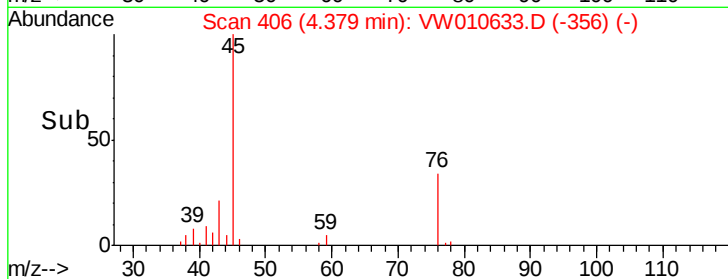
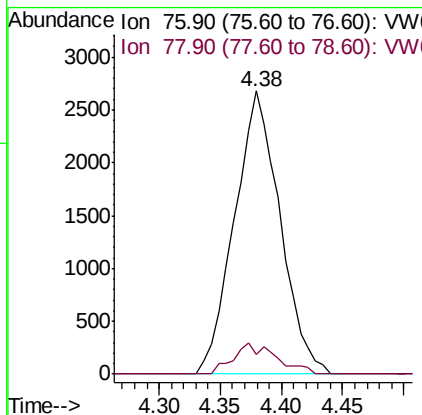
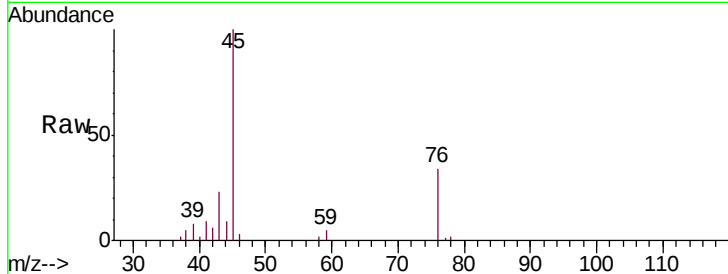




#17
Carbon Disulfide
Concen: 1.452 ug/l
RT: 4.38 min Scan# 406
Delta R.T. 0.01 min
Lab File: VW010633.D
Acq: 31 May 2019 13:38

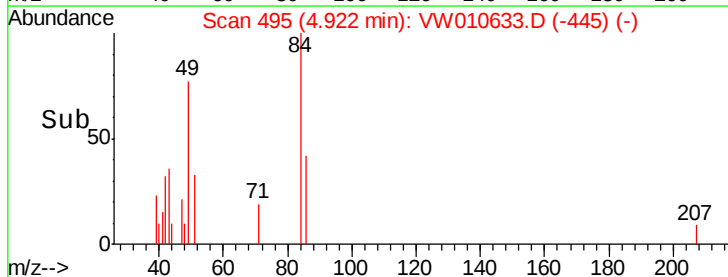
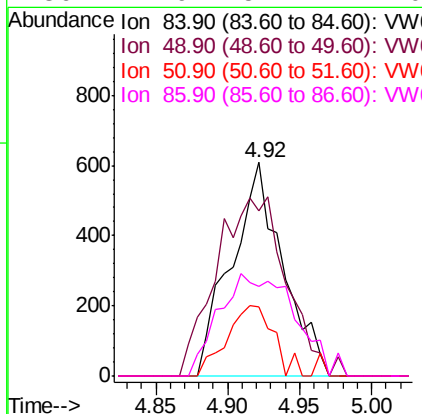
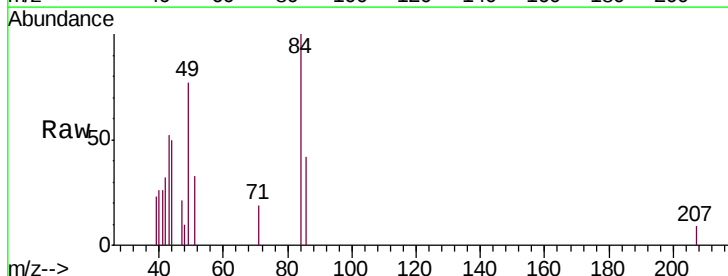
Instrument :
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0436-HR-16(HACKENSACK)

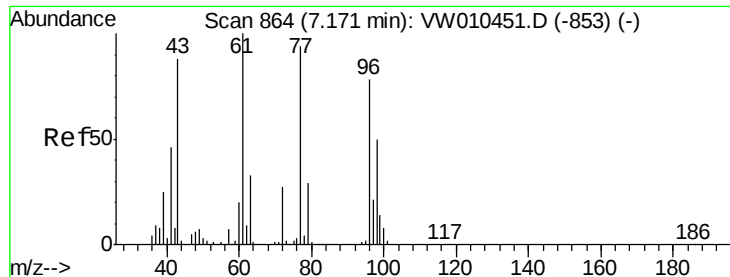
Tgt Ion: 76 Resp: 6941
Ion Ratio Lower Upper
76 100
78 6.8 7.1 10.7#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW010633.D
Acq: 31 May 2019 13:38

Tgt Ion: 84 Resp: 1514
Ion Ratio Lower Upper
84 100
49 67.8 87.2 130.8#
51 32.7 27.7 41.5
86 41.9 51.4 77.0#

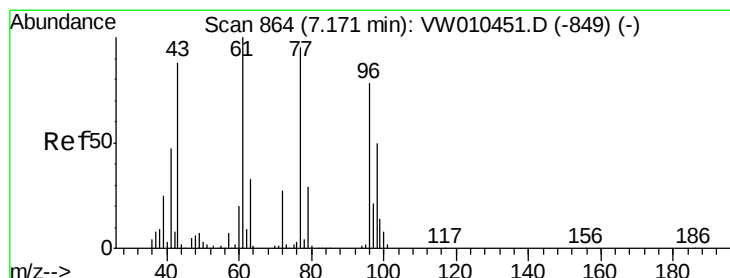
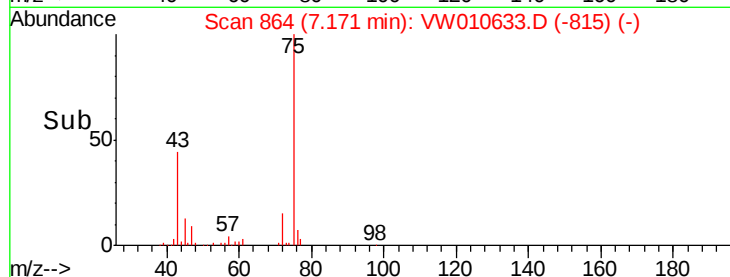
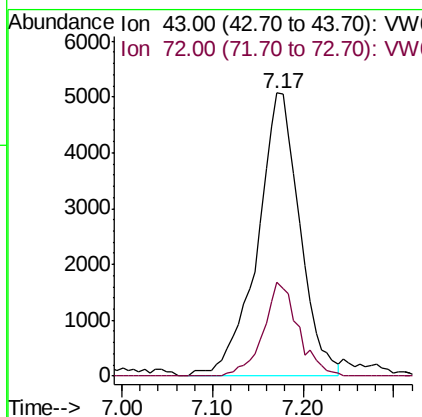
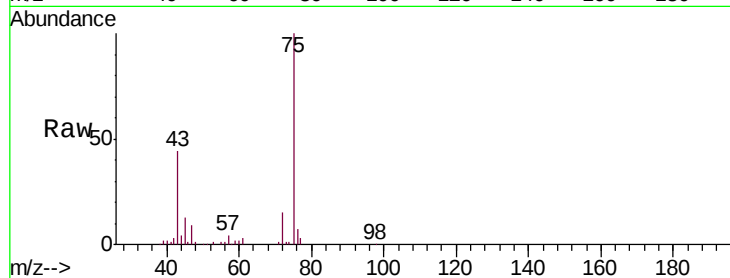




#25
 2-Butanone
 Concen: 35.938 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VW010633.D
 Acq: 31 May 2019 13:38

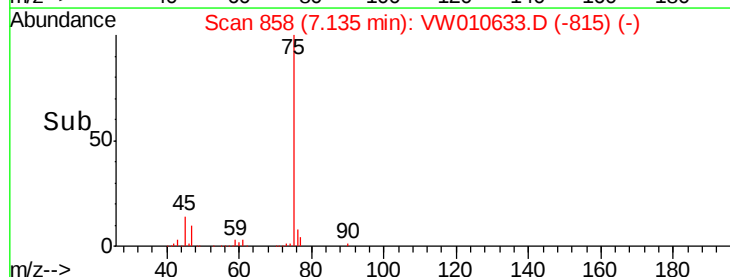
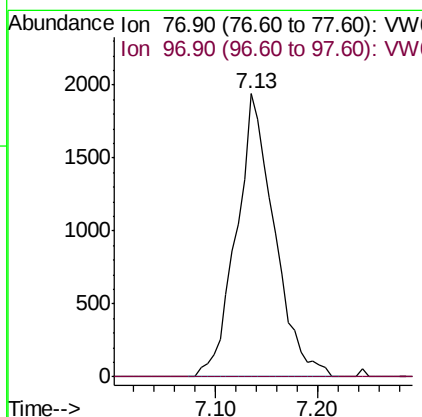
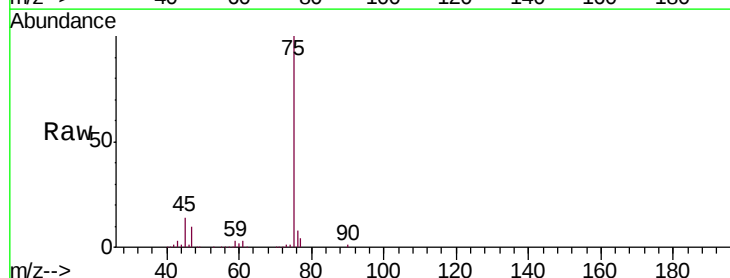
Instrument :
 MSVOA_W
 ClientSampleId :
 0436-HR-16(HACKENSACK)

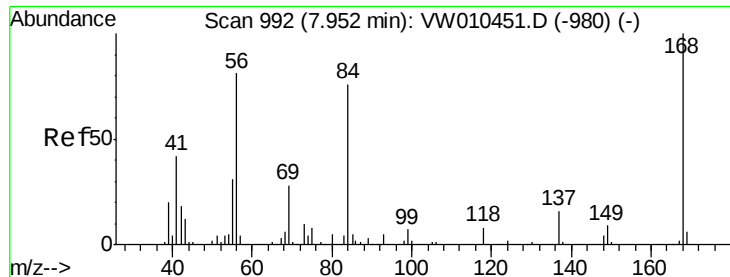
Tgt Ion: 43 Resp: 16439
 Ion Ratio Lower Upper
 43 100
 72 33.2 24.1 36.1



#26
 2,2-Dichloropropane
 Concen: 1.853 ug/l
 RT: 7.13 min Scan# 858
 Delta R.T. -0.04 min
 Lab File: VW010633.D
 Acq: 31 May 2019 13:38

Tgt Ion: 77 Resp: 5011
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.7 35.0#

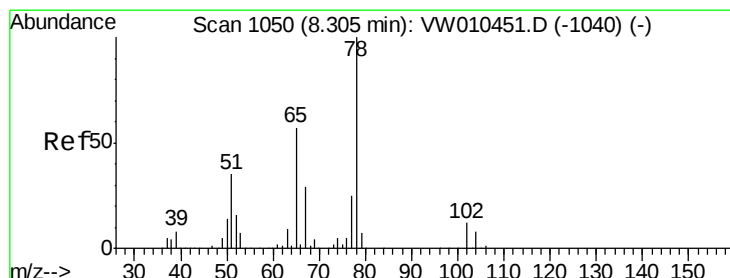
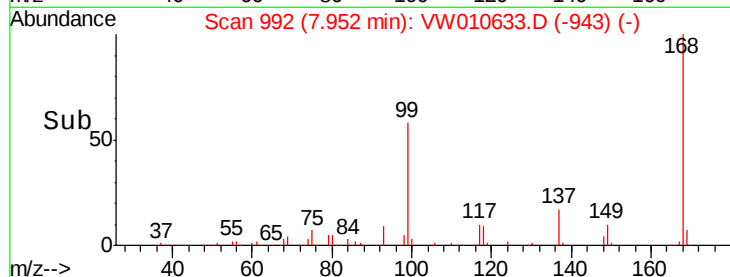
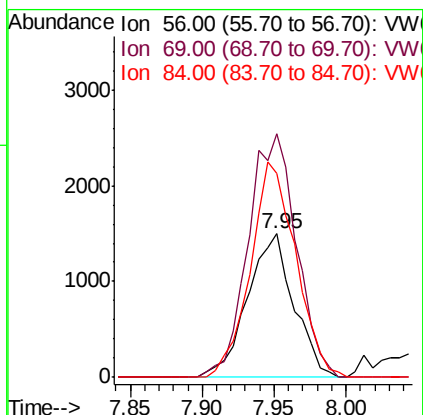
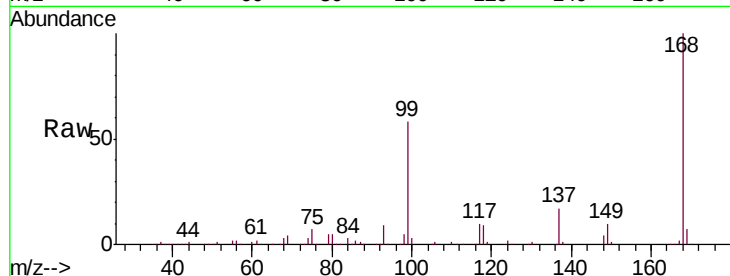




#31
Cyclohexane
Concen: 1.124 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW010633.D
Acq: 31 May 2019 13:38

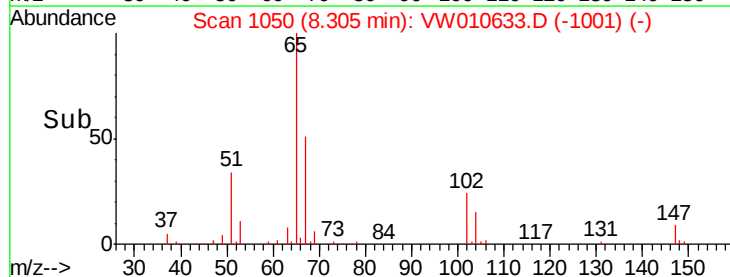
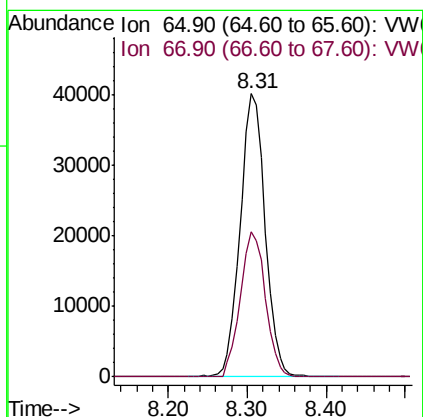
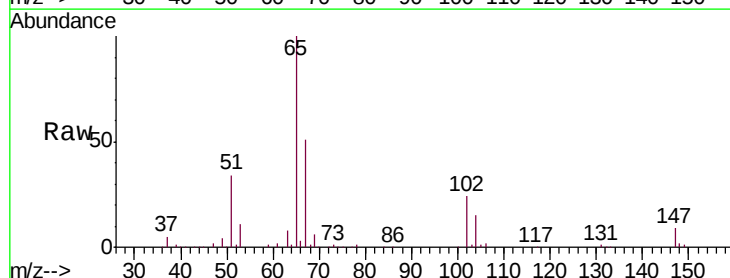
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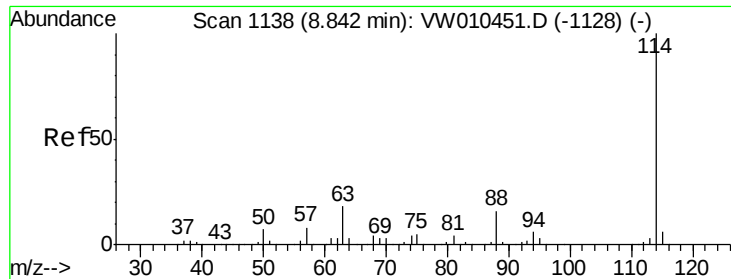
Tgt Ion: 56 Resp: 3342
Ion Ratio Lower Upper
56 100
69 169.7 28.2 42.2#
84 142.6 75.8 113.8#



#33
1,2-Dichloroethane-d4
Concen: 56.671 ug/l
RT: 8.31 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VW010633.D
Acq: 31 May 2019 13:38

Tgt Ion: 65 Resp: 88741
Ion Ratio Lower Upper
65 100
67 51.7 0.0 103.6

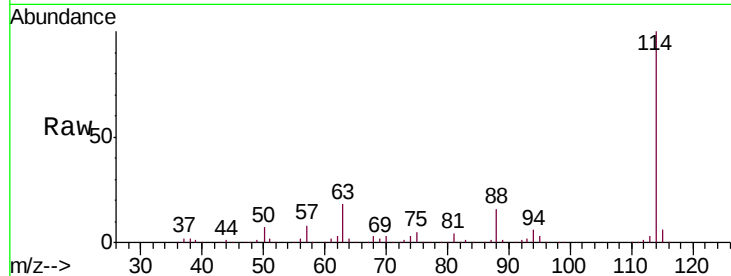




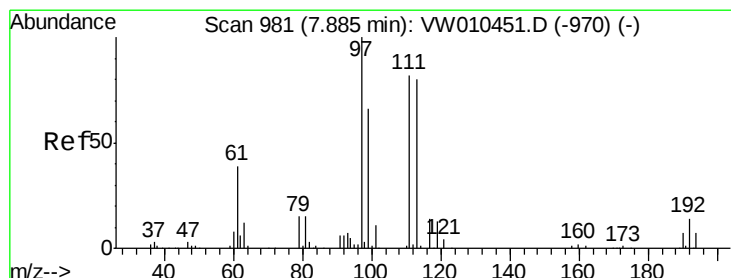
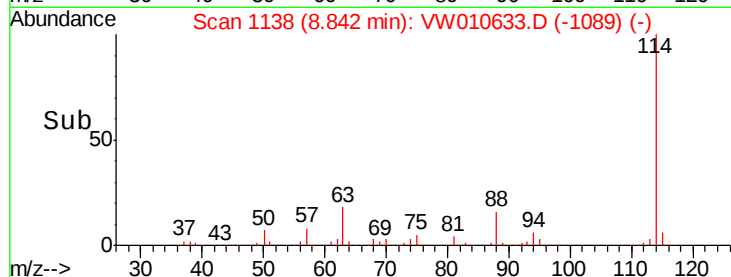
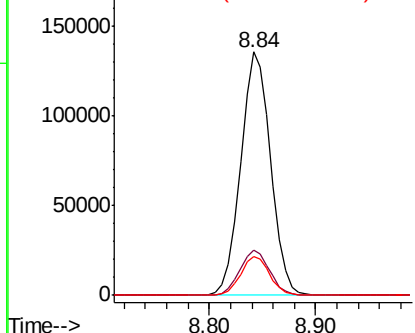
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. 0.00 min
Lab File: VW010633.D
Acq: 31 May 2019 13:38

Instrument :
MSVOA_W
ClientSampleId :
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Tgt Ion:114 Resp: 266794
Ion Ratio Lower Upper
114 100
63 18.4 0.0 36.0
88 16.2 0.0 32.0

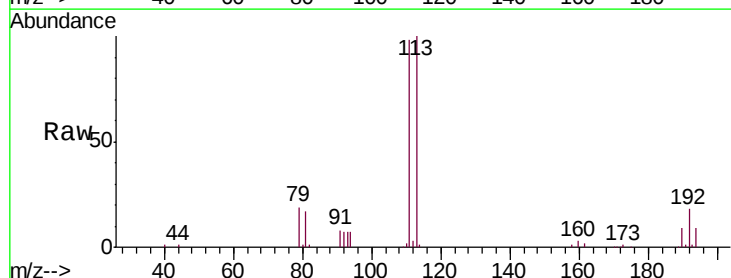


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VW
Ion 87.90 (87.60 to 88.60): VW

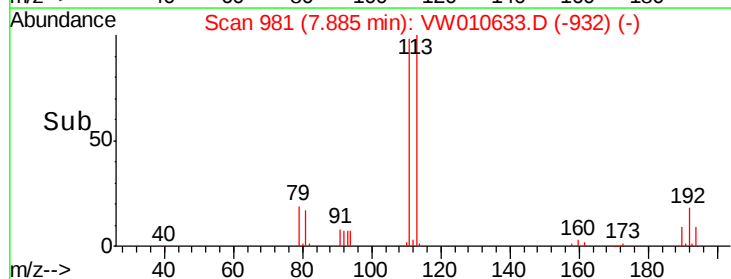
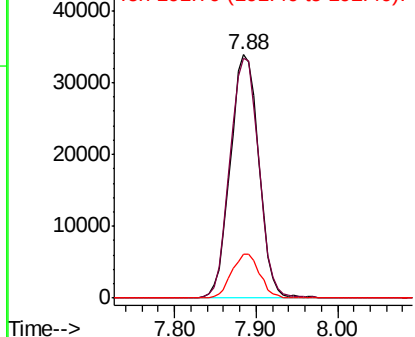


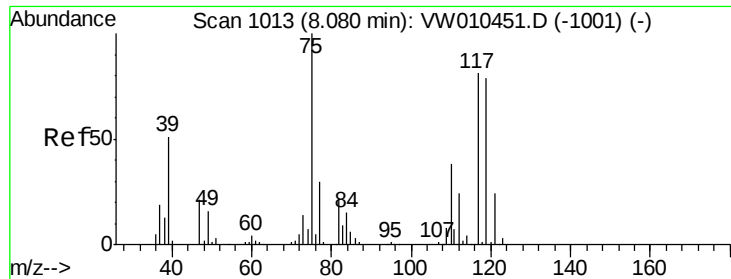
#35
Dibromofluoromethane
Concen: 50.232 ug/l
RT: 7.88 min Scan# 981
Delta R.T. 0.00 min
Lab File: VW010633.D
Acq: 31 May 2019 13:38

Tgt Ion:113 Resp: 81318
Ion Ratio Lower Upper
113 100
111 100.4 82.2 123.4
192 18.0 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

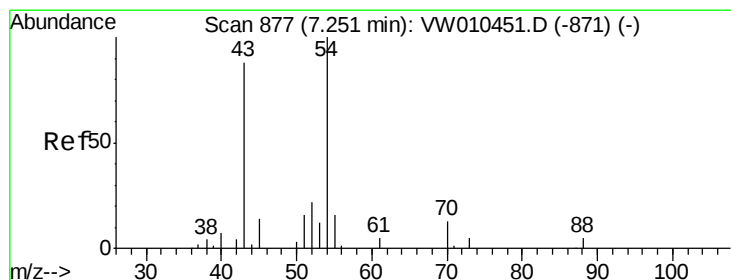
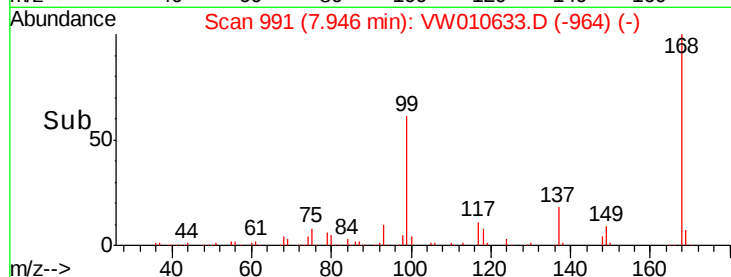
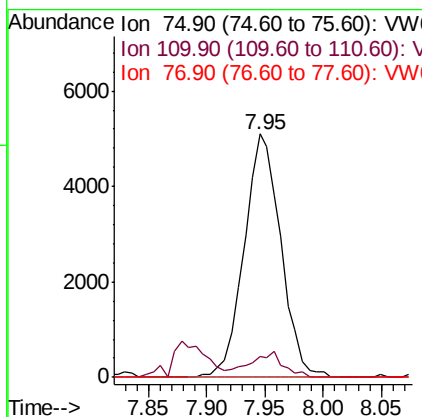
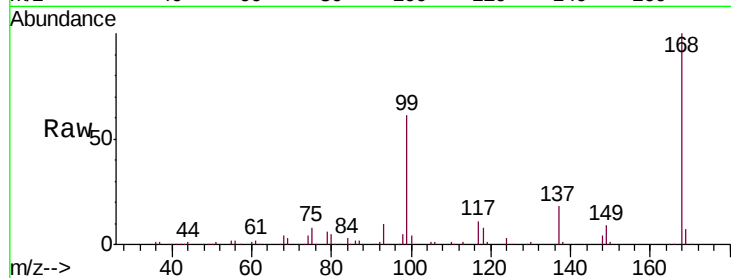




#36
 1,1-Dichloropropene
 Concen: 4.496 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW010633.D
 Acq: 31 May 2019 13:38

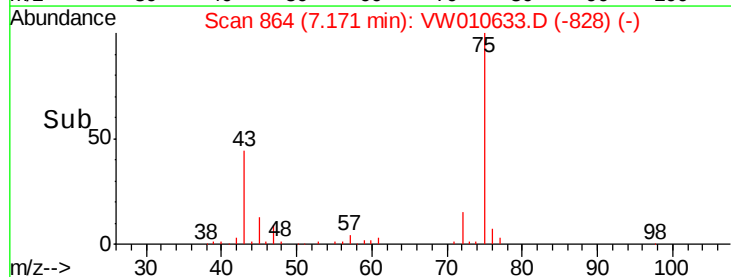
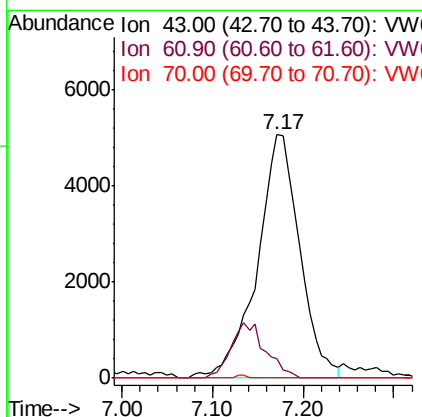
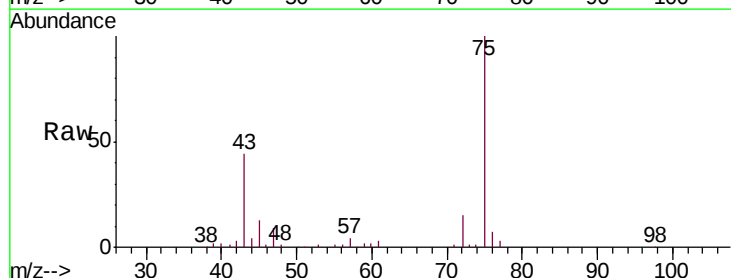
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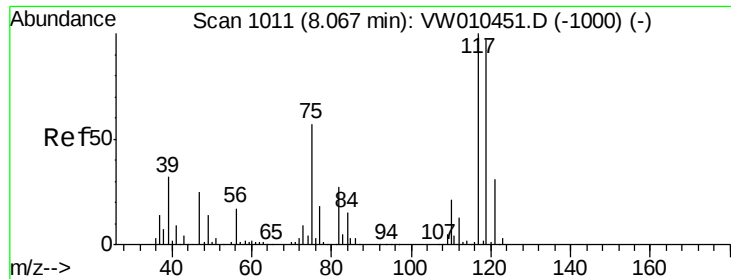
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	19.2	57.6#
77	0.0	25.2	37.8#



#37
 Ethyl Acetate
 Concen: 15.554 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. -0.08 min
 Lab File: VW010633.D
 Acq: 31 May 2019 13:38

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.2	16.8#
70	0.0	9.9	14.9#

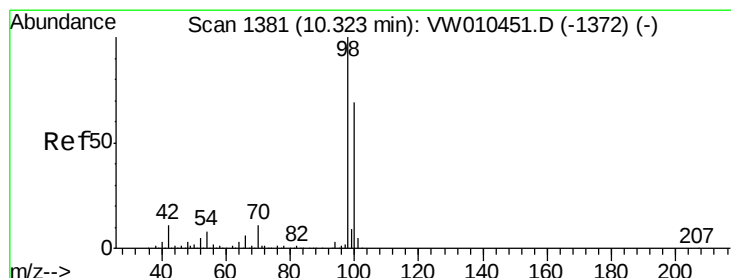
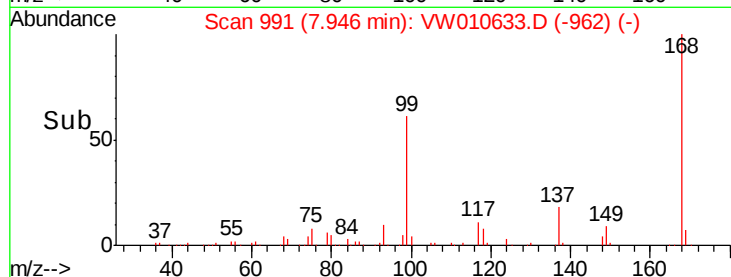
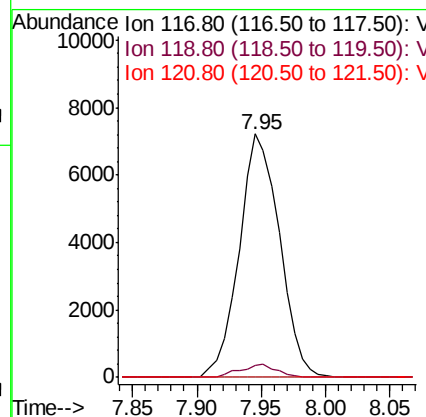
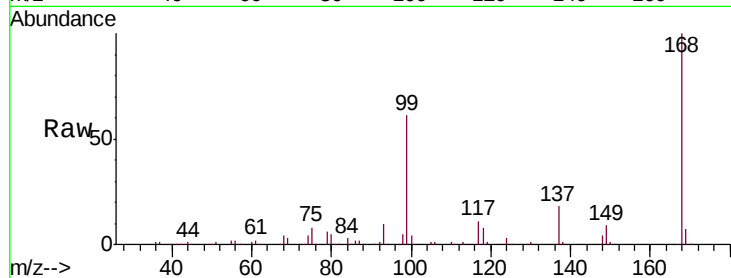




#38
Carbon Tetrachloride
Concen: 5.830 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW010633.D
Acq: 31 May 2019 13:38

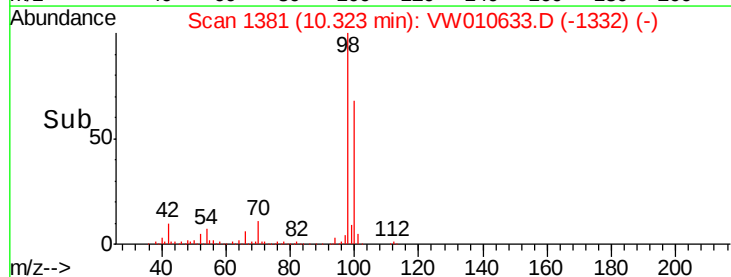
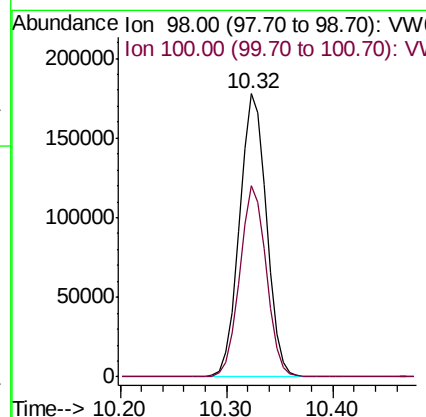
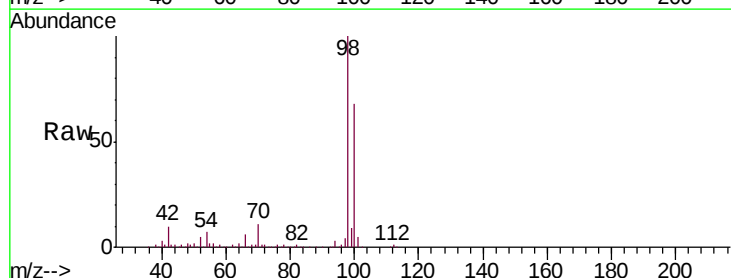
Instrument :
MSVOA_W
ClientSampleId :
0436-HR-16(HACKENSACK)

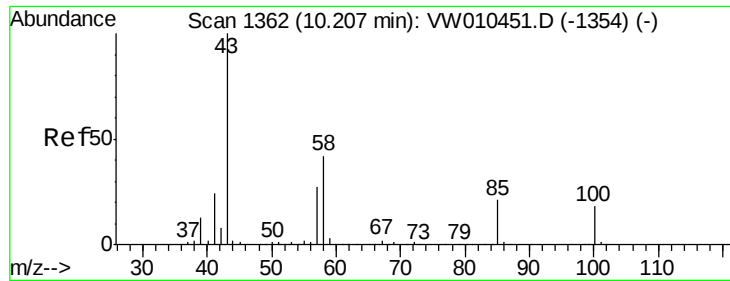
Tgt Ion: 117 Resp: 15631
Ion Ratio Lower Upper
117 100
119 4.9 77.4 116.0#
121 0.0 25.0 37.6#



#50
Toluene-d8
Concen: 51.262 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW010633.D
Acq: 31 May 2019 13:38

Tgt Ion: 98 Resp: 317023
Ion Ratio Lower Upper
98 100
100 66.5 53.7 80.5





#51

4-Methyl-2-Pentanone

Concen: 4.370 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW010633.D

Acq: 31 May 2019 13:38

Instrument :

MSVOA_W

ClientSampleId :

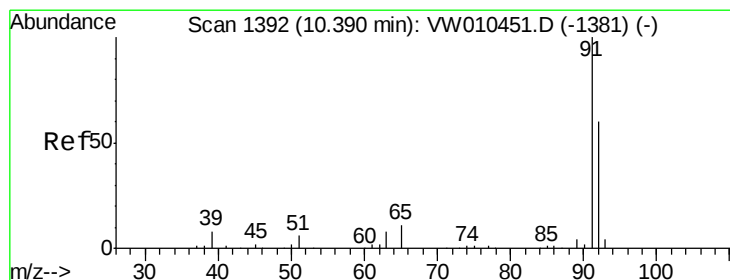
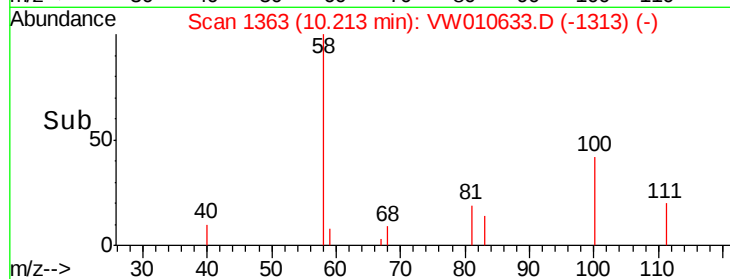
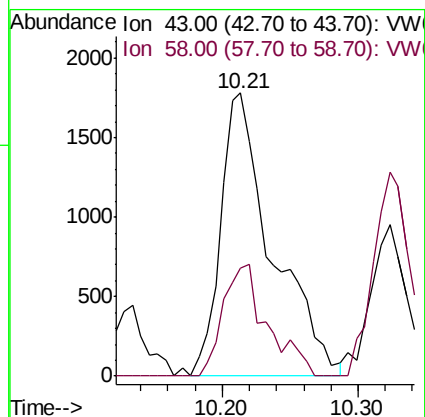
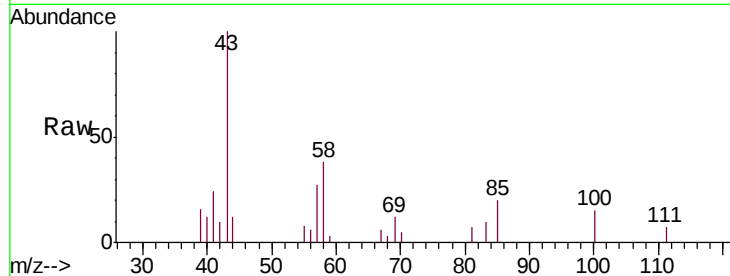
0436-HR-16(HACKENSACK)

Tgt Ion: 43 Resp: 4675

Ion Ratio Lower Upper

43 100

58 33.9 33.2 49.8



#52

Toluene

Concen: 104.419 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW010633.D

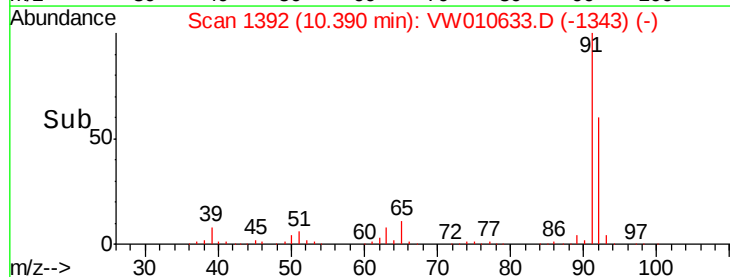
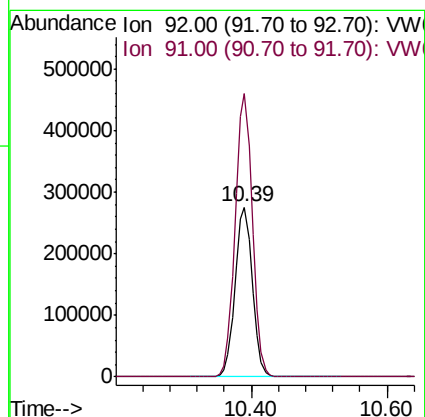
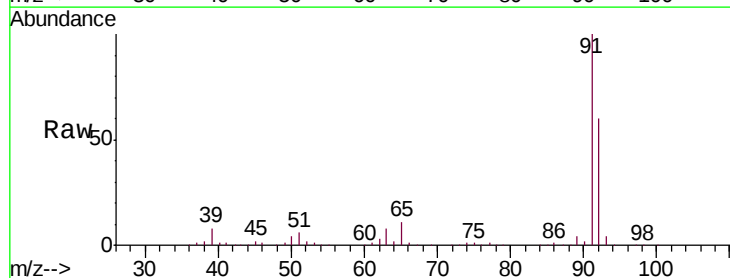
Acq: 31 May 2019 13:38

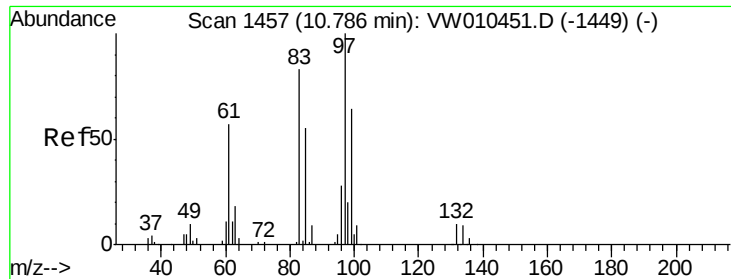
Tgt Ion: 92 Resp: 484412

Ion Ratio Lower Upper

92 100

91 166.3 135.4 203.0

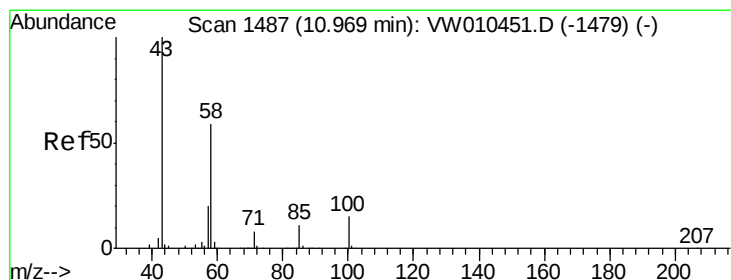
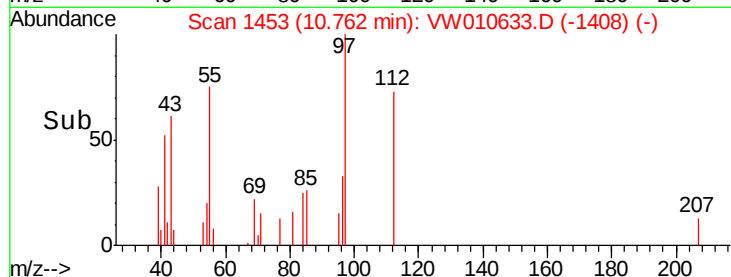
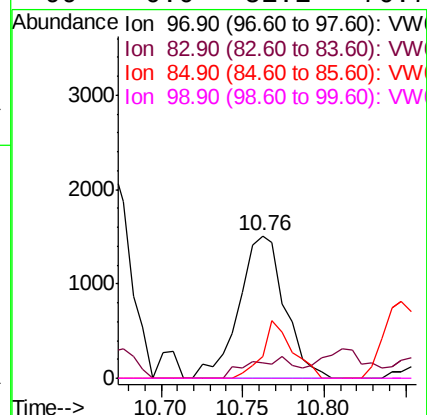
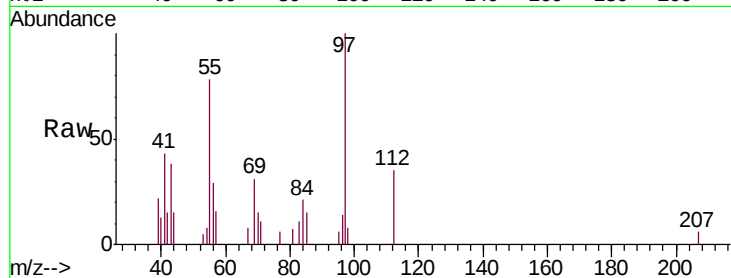




#55
 1,1,2-Trichloroethane
 Concen: 2.131 ug/l
 RT: 10.76 min Scan# 1453
 Delta R.T. -0.02 min
 Lab File: VW010633.D
 Acq: 31 May 2019 13:38

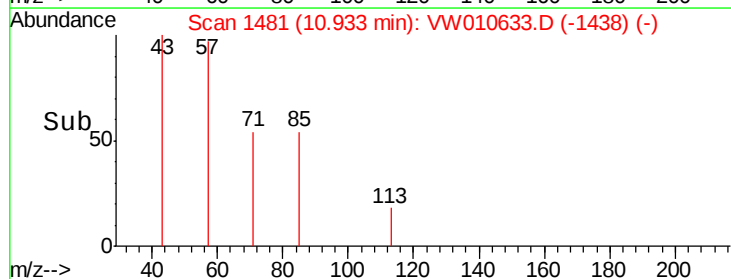
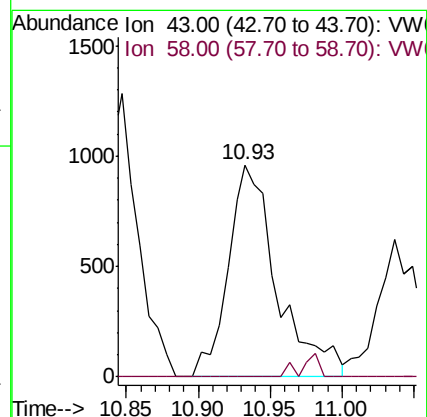
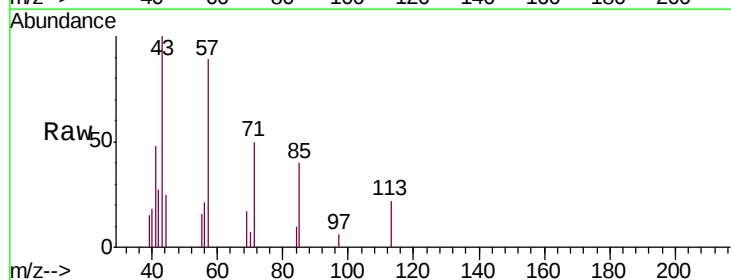
Instrument :
 MSVOA_W
 ClientSampleId :
 0436-HR-16(HACKENSACK)

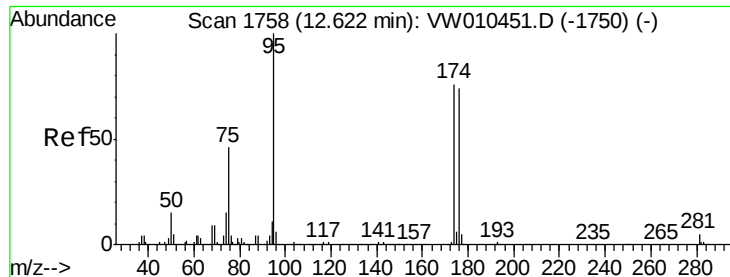
Tgt Ion: 97 Resp: 2940
 Ion Ratio Lower Upper
 97 100
 83 10.6 66.1 99.1#
 85 15.3 44.2 66.4#
 99 0.0 51.1 76.7#



#59
 2-Hexanone
 Concen: 2.990 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.04 min
 Lab File: VW010633.D
 Acq: 31 May 2019 13:38

Tgt Ion: 43 Resp: 2282
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.9 86.8#





#62

4-Bromofluorobenzene

Concen: 44.877 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW010633.D

Acq: 31 May 2019 13:38

Instrument :

MSVOA_W

ClientSampleId :

0436-HR-16(HACKENSACK)

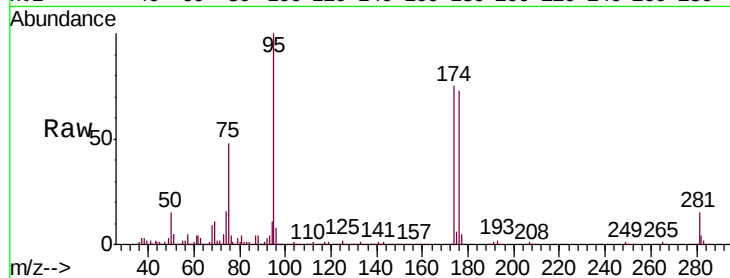
Tgt Ion: 95 Resp: 110548

Ion Ratio Lower Upper

95 100

174 73.7 0.0 148.6

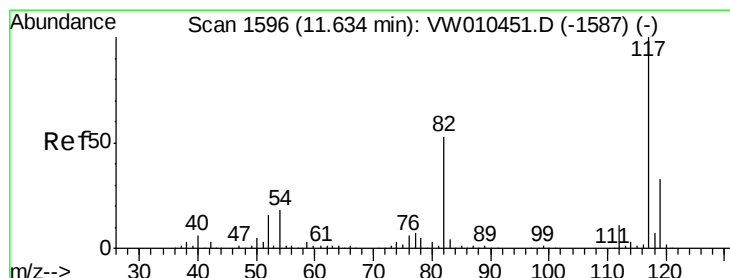
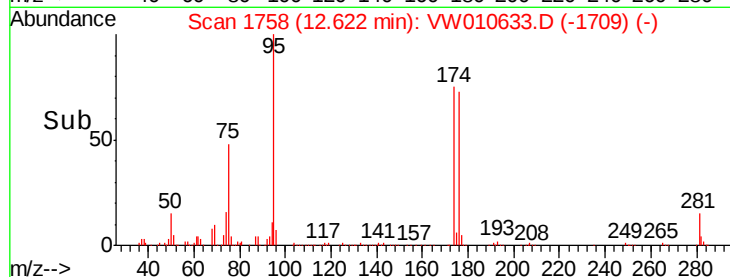
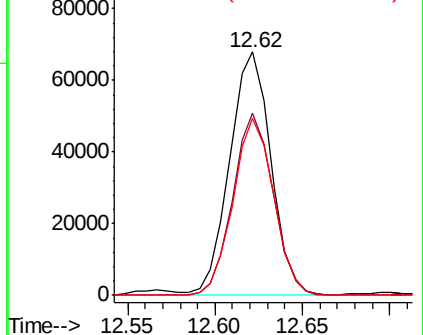
176 72.0 0.0 144.2



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW010633.D

Acq: 31 May 2019 13:38

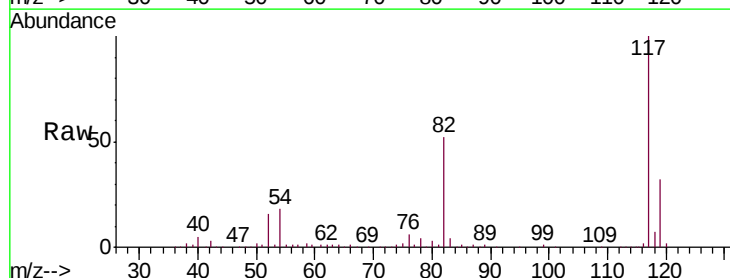
Tgt Ion: 117 Resp: 224924

Ion Ratio Lower Upper

117 100

82 51.9 42.8 64.2

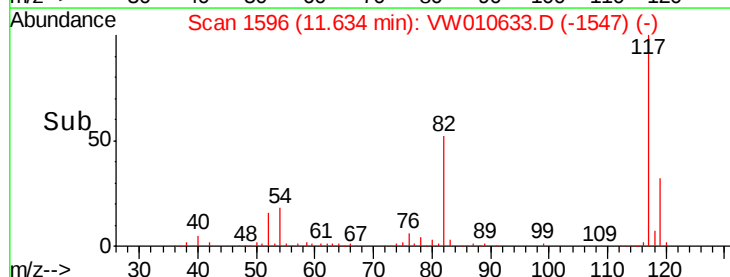
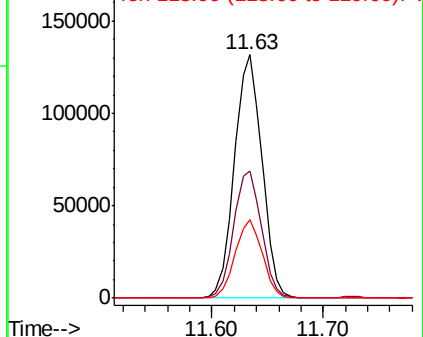
119 32.4 26.3 39.5

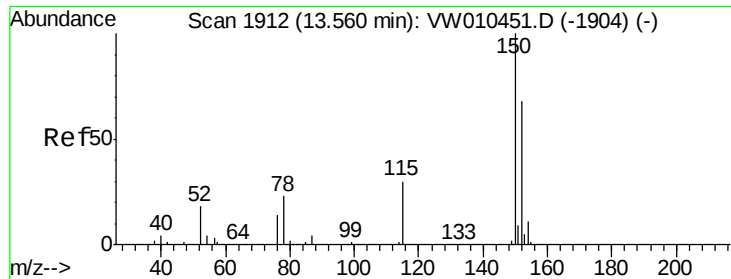


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

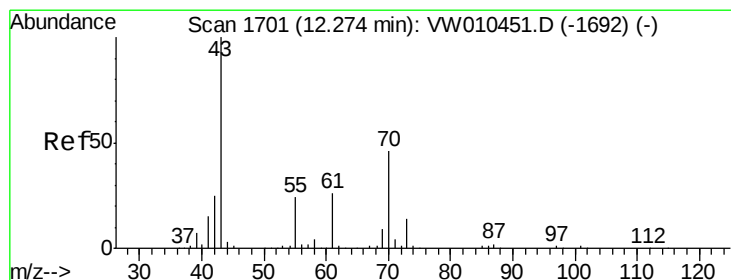
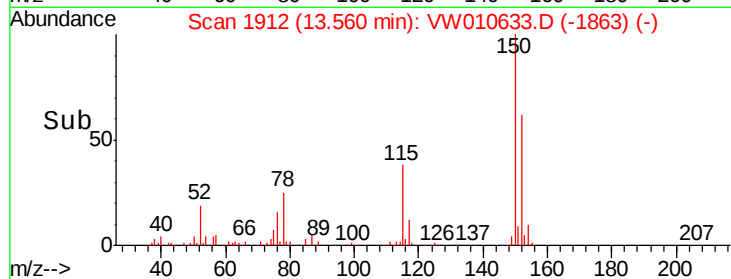
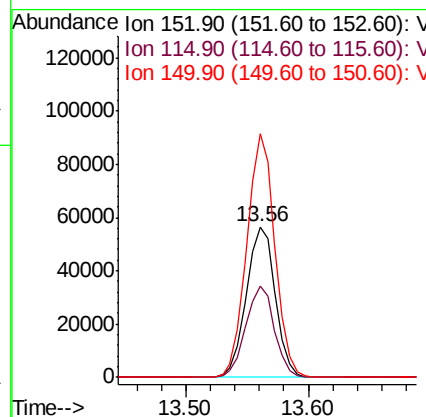
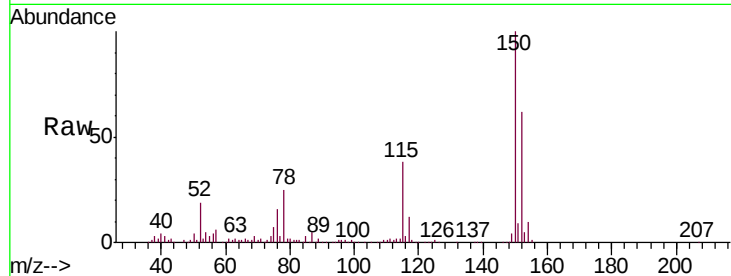




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.56 min Scan# 1912
 Delta R.T. 0.00 min
 Lab File: VW010633.D
 Acq: 31 May 2019 13:38

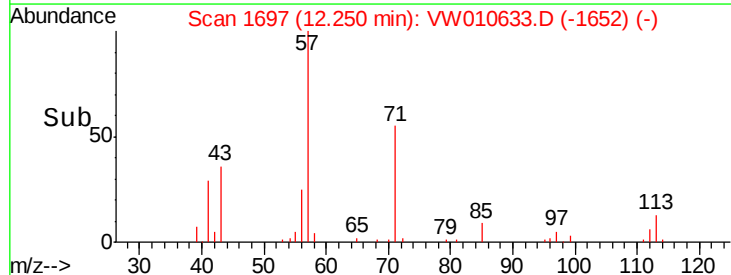
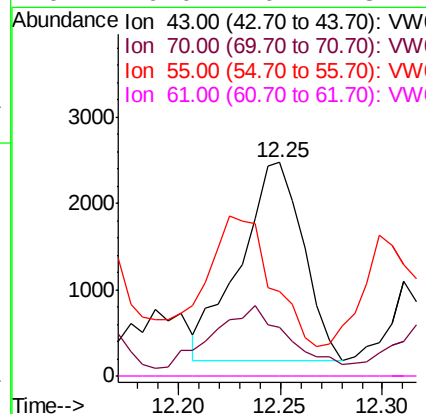
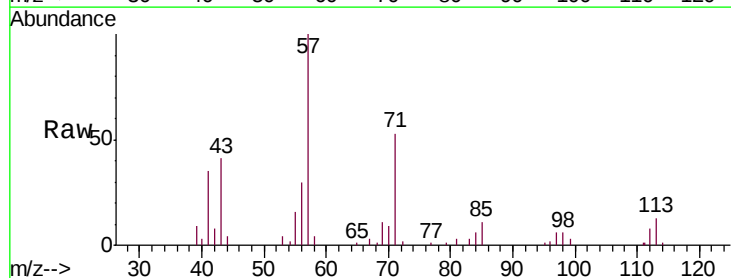
Instrument :
 MSVOA_W
 ClientSampleId :
 0436-HR-16(HACKENSACK)

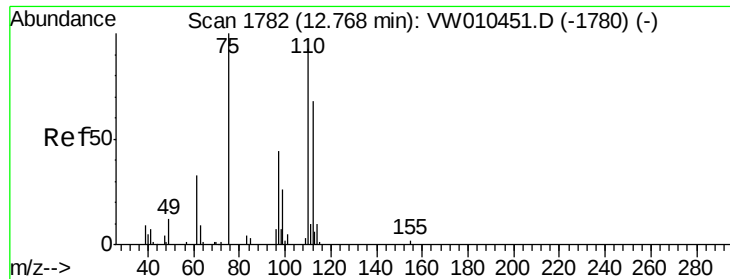
Tgt Ion:152 Resp: 92926
 Ion Ratio Lower Upper
 152 100
 115 60.0 30.3 91.0
 150 156.1 0.0 349.8



#74
 N-ethyl acetate
 Concen: 2.929 ug/l
 RT: 12.25 min Scan# 1697
 Delta R.T. -0.02 min
 Lab File: VW010633.D
 Acq: 31 May 2019 13:38

Tgt Ion: 43 Resp: 4950
 Ion Ratio Lower Upper
 43 100
 70 35.0 37.1 55.7#
 55 0.0 19.6 29.4#
 61 0.0 20.7 31.1#





#76

1,2,3-Trichloropropane

Concen: 56.045 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010633.D

Acq: 31 May 2019 13:38

Instrument :

MSVOA_W

ClientSampleId :

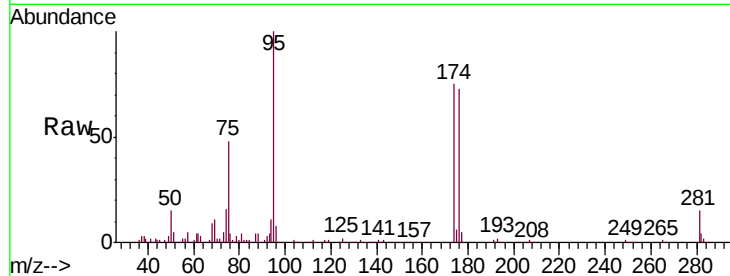
0436-HR-16(HACKENSACK)

Tgt Ion: 75 Resp: 52865

Ion Ratio Lower Upper

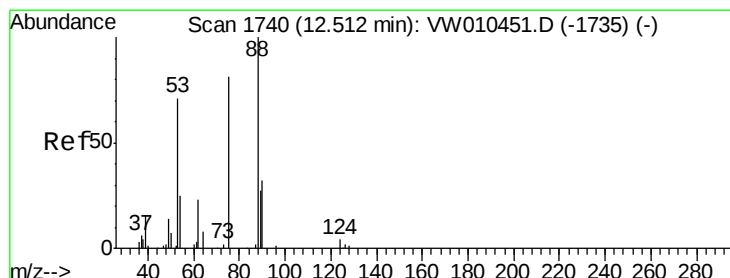
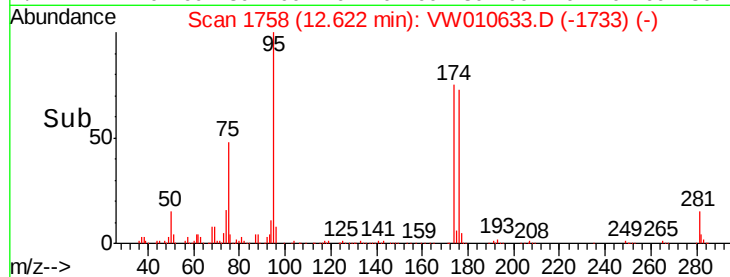
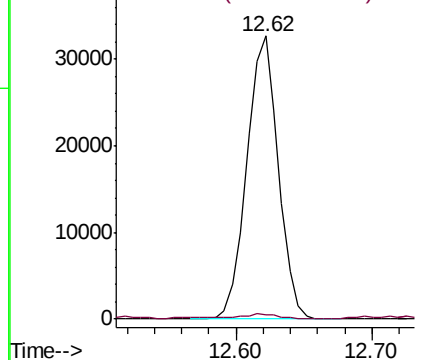
75 100

77 2.9 170.0 510.1#



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: 116.968 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010633.D

Acq: 31 May 2019 13:38

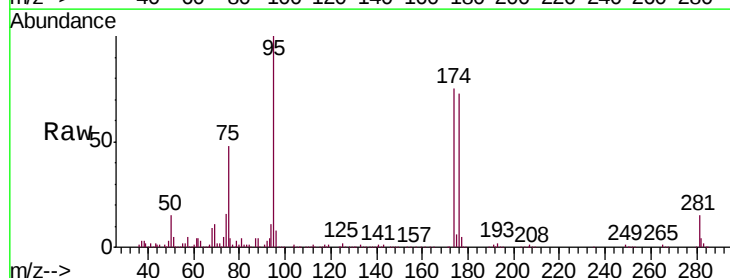
Tgt Ion: 75 Resp: 52865

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.8#

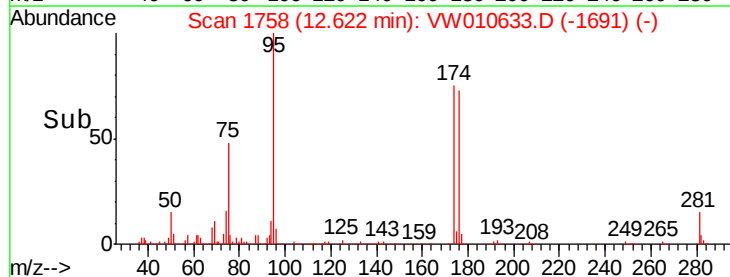
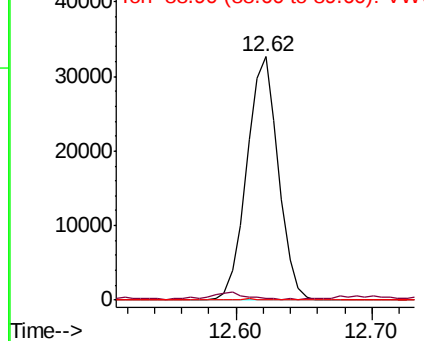
89 0.2 39.5 59.3#

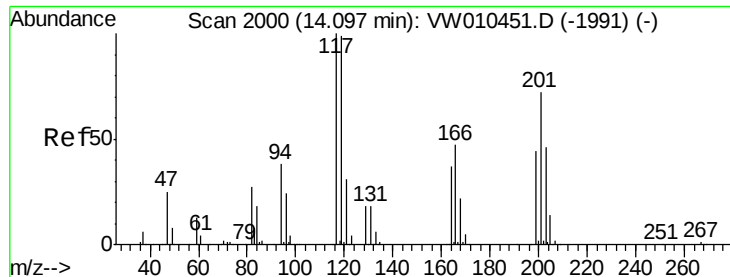


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#90

Hexachloroethane

Concen: 3.942 ug/l

RT: 14.14 min Scan# 2007

Delta R.T. 0.04 min

Lab File: VW010633.D

Acq: 31 May 2019 13:38

Instrument :

MSVOA_W

ClientSampleId :

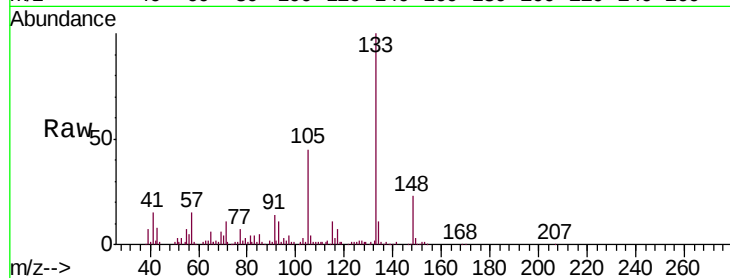
0436-HR-16(HACKENSACK)

Tgt Ion:117 Resp: 5273

Ion Ratio Lower Upper

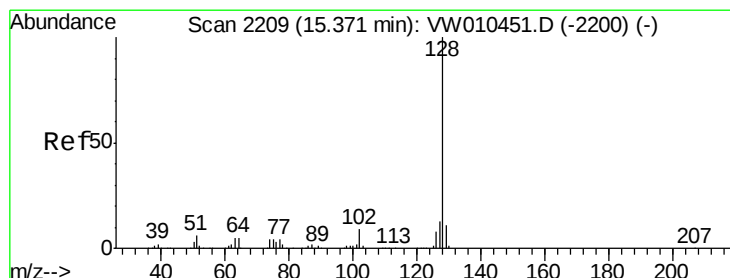
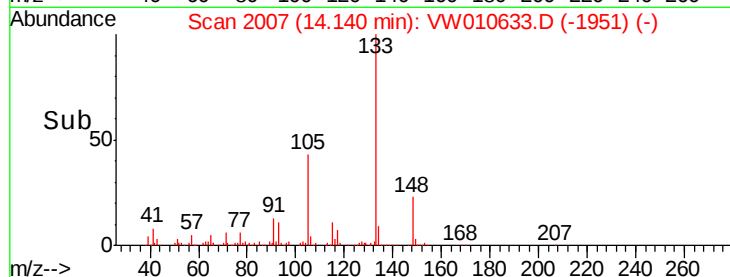
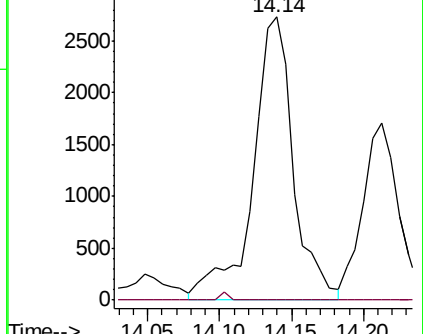
117 100

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: 1.061 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW010633.D

Acq: 31 May 2019 13:38

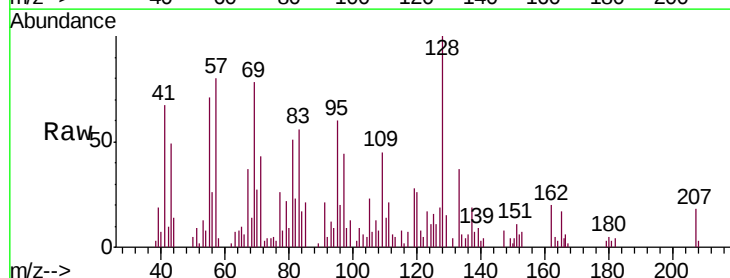
Tgt Ion:128 Resp: 4472

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 15.0 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

