

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN013023\
 Data File : VN076454.D
 Acq On : 30 Jan 2023 14:05
 Operator : JC\MD
 Sample : PB150523ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 31 00:38:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

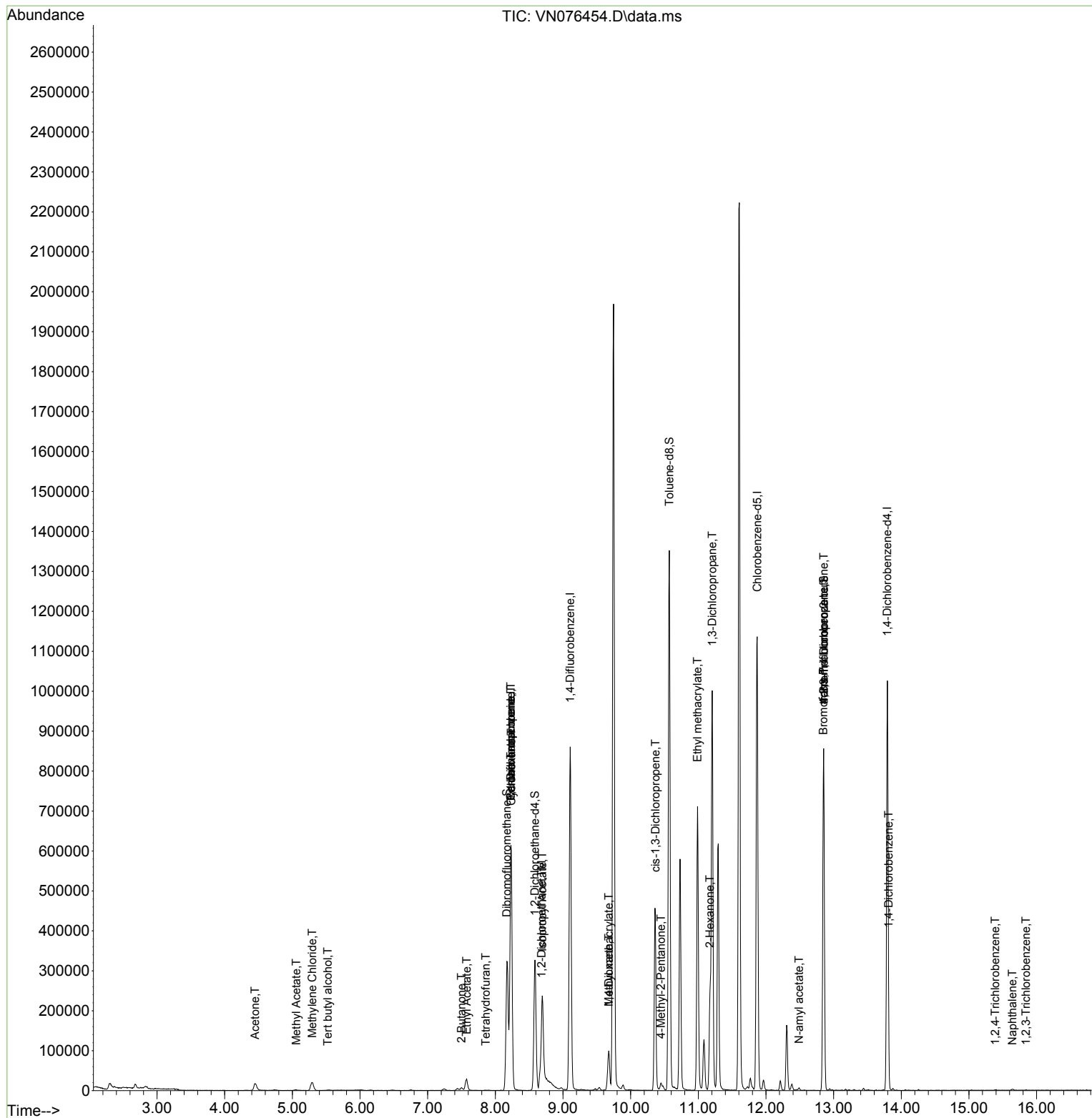
Internal Standards						
1) Pentafluorobenzene	8.229	168	457907	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	765748	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	678747	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	274619	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	276563	53.941	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.880%			
35) Dibromofluoromethane	8.171	113	235288	49.120	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.240%			
50) Toluene-d8	10.570	98	942040	53.252	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.500%			
62) 4-Bromofluorobenzene	12.853	95	285964	49.517	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.040%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.524	59	956	1.394	ug/l #	72
16) Acetone	4.447	43	34141	20.705	ug/l	98
18) Methyl Acetate	5.059	43	3859	0.693	ug/l #	87
20) Methylene Chloride	5.294	84	17068	2.942	ug/l	97
25) 2-Butanone	7.500	43	9538	3.800	ug/l	88
29) Tetrahydrofuran	7.859	42	746	0.482	ug/l #	25
31) Cyclohexane	8.235	56	10076	1.279	ug/l #	11
36) 1,1-Dichloropropene	8.229	75	35984	5.287	ug/l #	50
37) Ethyl Acetate	7.577	43	43655	8.027	ug/l	99
38) Carbon Tetrachloride	8.229	117	48663	6.411	ug/l #	17
42) 1,2-Dichloroethane	8.682	62	1693	0.243	ug/l #	73
43) Isopropyl Acetate	8.694	43	308162	34.697	ug/l #	77
48) Methyl methacrylate	9.676	41	6085	1.447	ug/l #	34
49) 1,4-Dioxane	9.676	88	64	0.721	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	18413	3.532	ug/l #	72
54) cis-1,3-Dichloropropene	10.365	75	89068	11.381	ug/l #	63
56) Ethyl methacrylate	10.988	69	2492	0.371	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	11572	1.369	ug/l #	42
59) 2-Hexanone	11.170	43	183265	48.506	ug/l #	21
71) Bromoform	12.847	173	1712	0.444	ug/l #	1
74) N-amyl acetate	12.488	43	2194	0.359	ug/l #	49
76) 1,2,3-Trichloropropane	12.853	75	154805	30.575	ug/l #	1
77) Bromobenzene	12.982	156	192	Below Cal	#	66
81) trans-1,4-Dichloro-2-b...	12.853	75	154805	93.791	ug/l #	11
88) 1,4-Dichlorobenzene	13.811	146	1126	0.219	ug/l #	25
93) 1,2,4-Trichlorobenzene	15.388	180	883	1.484	ug/l #	16
95) Naphthalene	15.641	128	3618	2.083	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.841	180	671	1.297	ug/l #	64

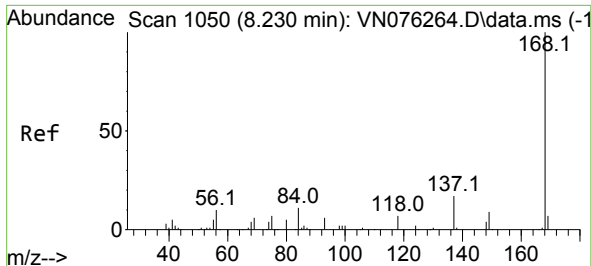
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN013023\
Data File : VN076454.D
Acq On : 30 Jan 2023 14:05
Operator : JC\MD
Sample : PB150523ZHE#02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

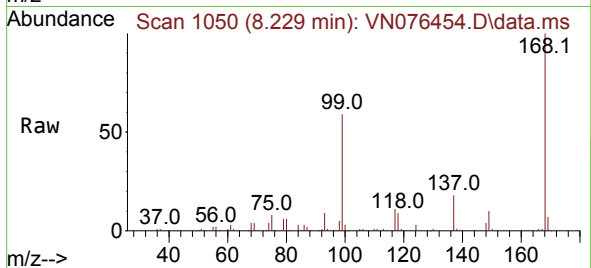
Quant Time: Jan 31 00:38:54 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 17 03:59:22 2023
Response via : Initial Calibration



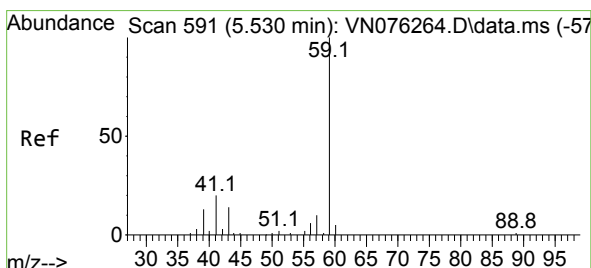
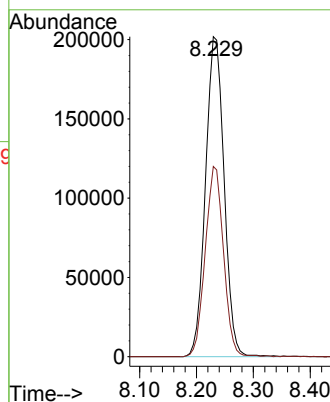
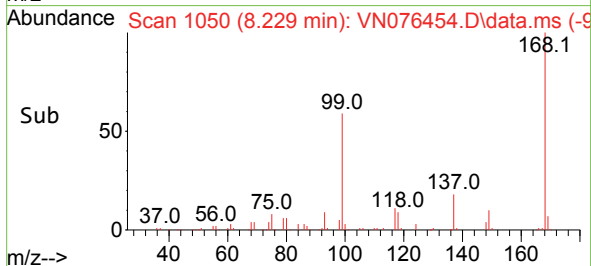


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.001 min
Lab File: VN076454.D
Acq: 30 Jan 2023 14:05

Instrument :
MSVOA_N
ClientSampleId :

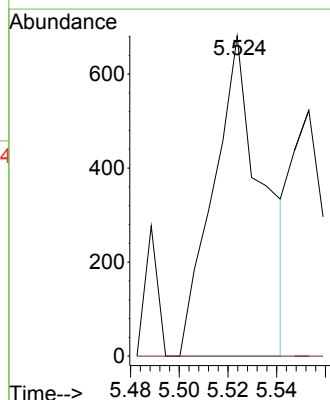
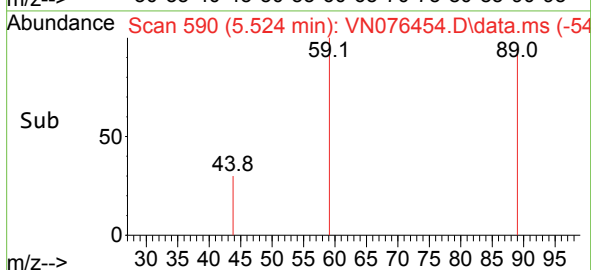
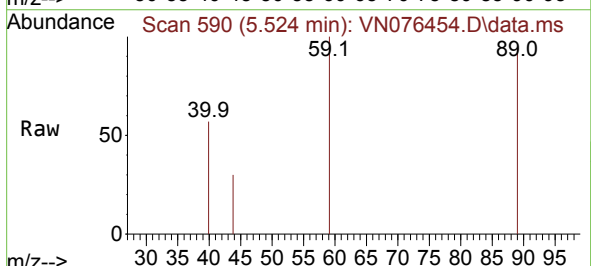


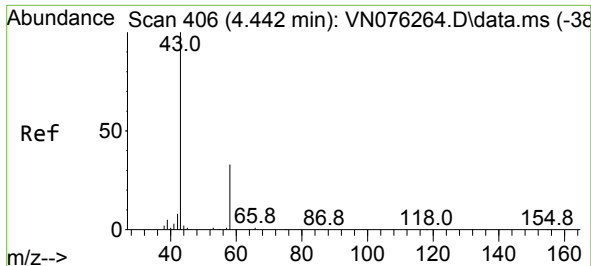
Tgt Ion:168 Resp: 457907
Ion Ratio Lower Upper
168 100
99 59.5 41.6 62.4



#11
Tert butyl alcohol
Concen: 1.394 ug/l
RT: 5.524 min Scan# 590
Delta R.T. -0.006 min
Lab File: VN076454.D
Acq: 30 Jan 2023 14:05

Tgt Ion: 59 Resp: 956
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

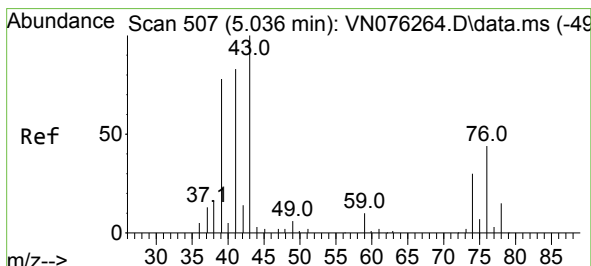
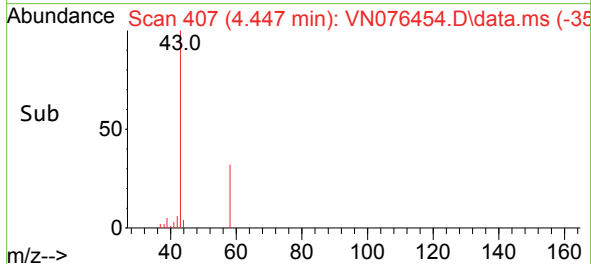
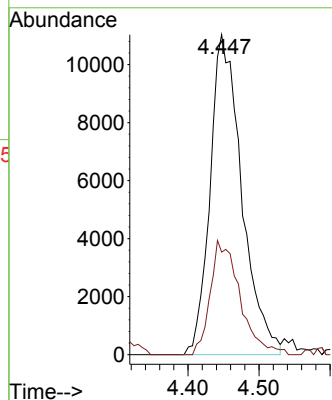
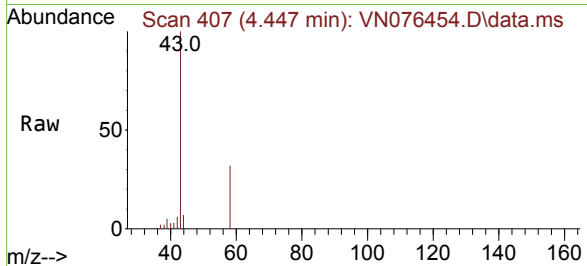




#16
Acetone
Concen: 20.705 ug/l
RT: 4.447 min Scan# 406
Delta R.T. 0.005 min
Lab File: VN076454.D
Acq: 30 Jan 2023 14:05

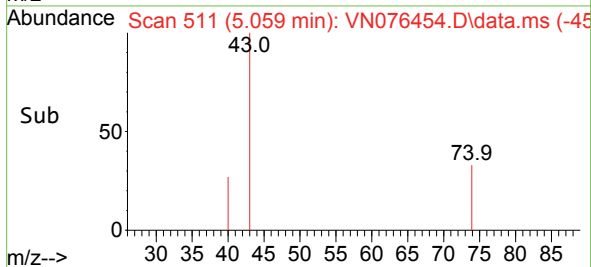
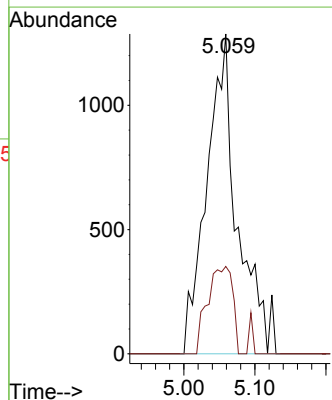
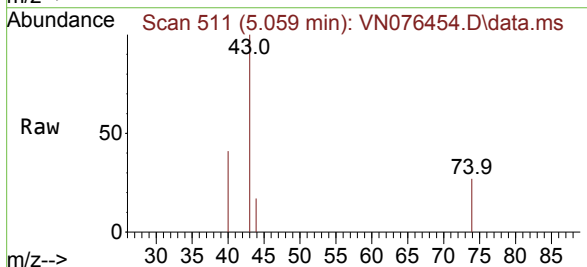
Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 43 Resp: 34141
Ion Ratio Lower Upper
43 100
58 32.1 26.7 40.1



#18
Methyl Acetate
Concen: 0.693 ug/l
RT: 5.059 min Scan# 511
Delta R.T. 0.023 min
Lab File: VN076454.D
Acq: 30 Jan 2023 14:05

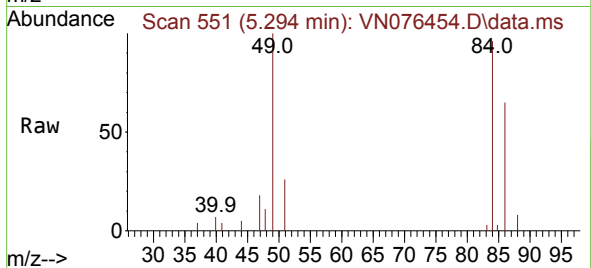
Tgt Ion: 43 Resp: 3859
Ion Ratio Lower Upper
43 100
74 22.3 23.3 34.9#



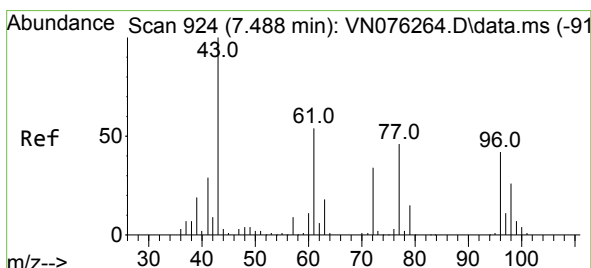
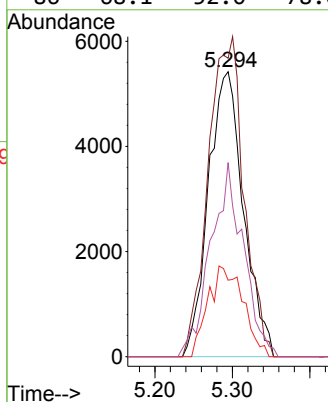
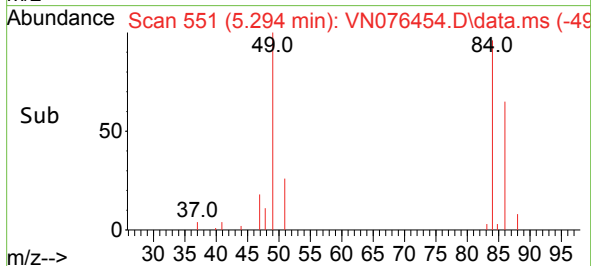


#20
Methylene Chloride
Concen: 2.942 ug/l
RT: 5.294 min Scan# 51
Delta R.T. 0.005 min
Lab File: VN076454.D
Acq: 30 Jan 2023 14:05

Instrument :
MSVOA_N
ClientSampleId :

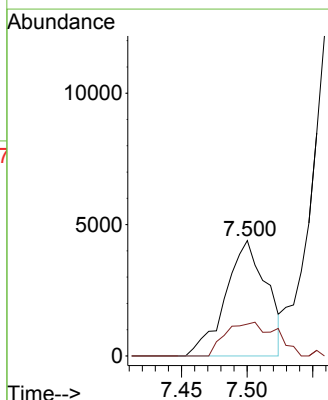
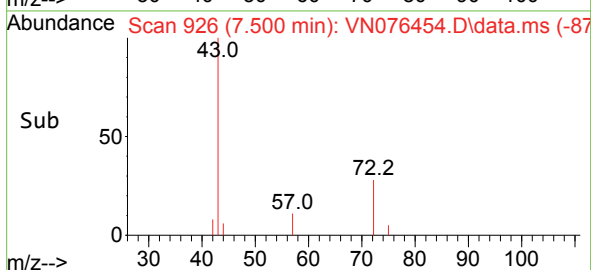
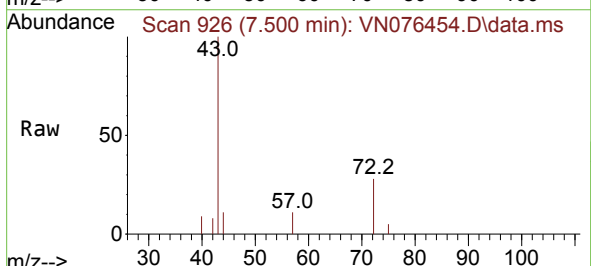


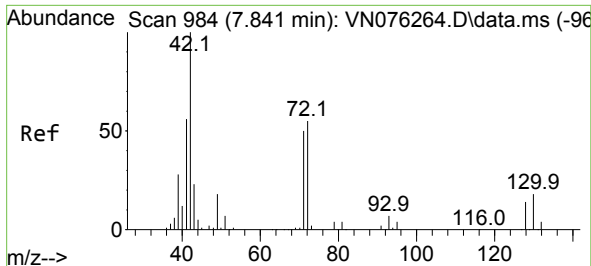
Tgt Ion: 84	Resp: 17068
Ion Ratio	Lower Upper
84 100	
49 104.7	84.5 126.7
51 26.8	26.0 39.0
86 68.1	52.0 78.0



#25
2-Butanone
Concen: 3.800 ug/l
RT: 7.500 min Scan# 926
Delta R.T. 0.012 min
Lab File: VN076454.D
Acq: 30 Jan 2023 14:05

Tgt Ion: 43	Resp: 9538		
Ion Ratio	Lower	Upper	
43 100			
72 27.6	27.4	41.2	

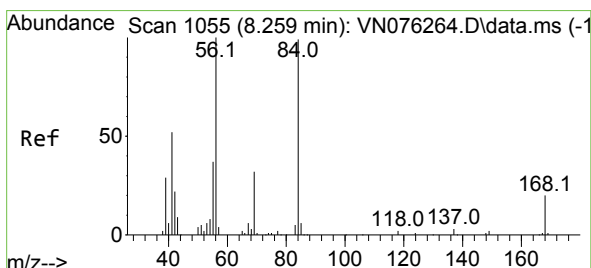
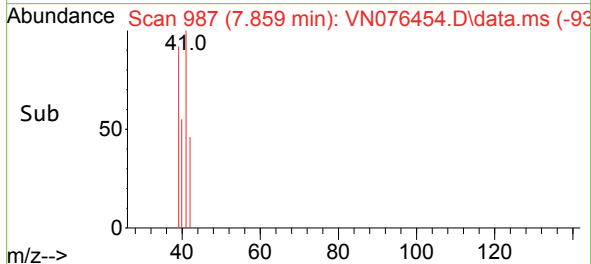
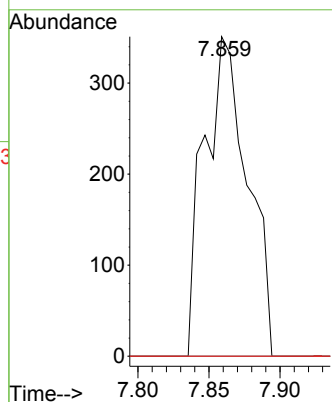
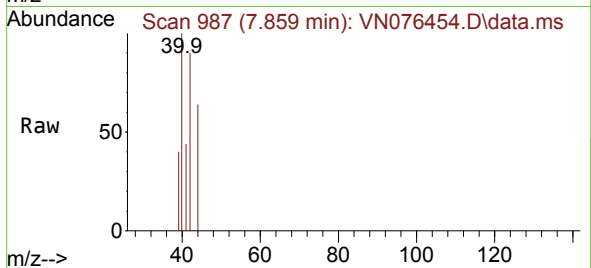




#29
Tetrahydrofuran
Concen: 0.482 ug/l
RT: 7.859 min Scan# 91
Delta R.T. 0.018 min
Lab File: VN076454.D
Acq: 30 Jan 2023 14:05

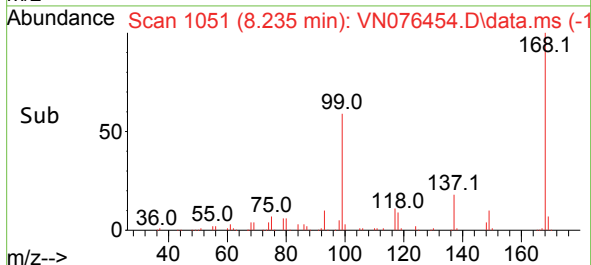
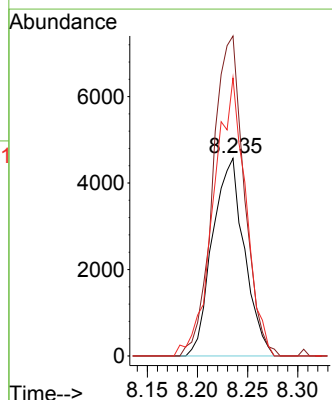
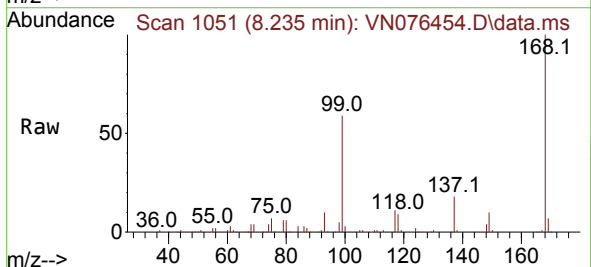
Instrument :
MSVOA_N
ClientSampleId :

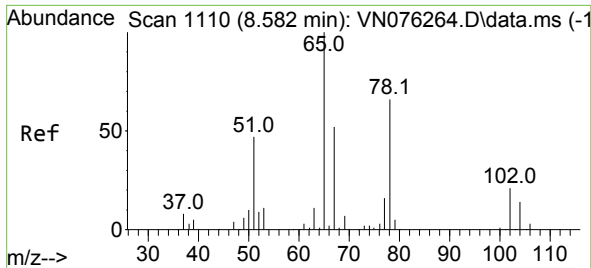
Tgt Ion: 42 Resp: 746
Ion Ratio Lower Upper
42 100
72 0.0 44.0 66.0#
71 0.0 41.1 61.7#



#31
Cyclohexane
Concen: 1.279 ug/l
RT: 8.235 min Scan# 1051
Delta R.T. -0.024 min
Lab File: VN076454.D
Acq: 30 Jan 2023 14:05

Tgt Ion: 56 Resp: 10076
Ion Ratio Lower Upper
56 100
69 161.9 25.8 38.8#
84 140.7 79.0 118.4#

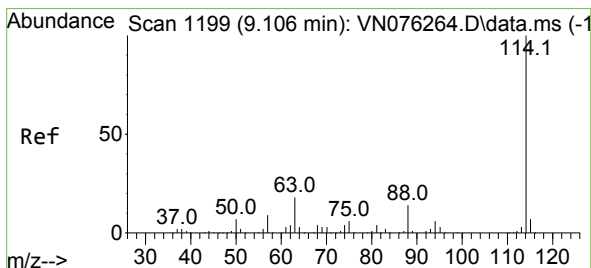
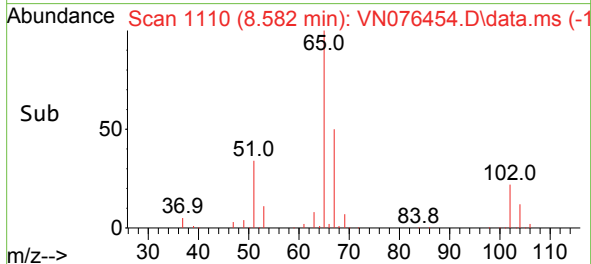
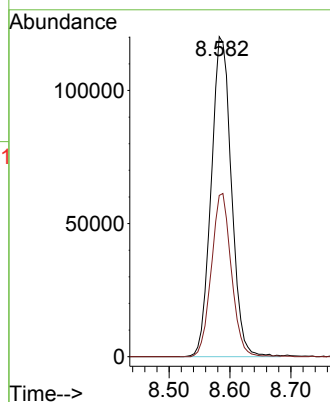
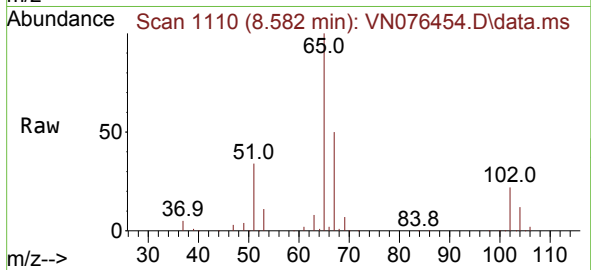




#33
 1,2-Dichloroethane-d4
 Concen: 53.941 ug/l
 RT: 8.582 min Scan# 1110
 Delta R.T. 0.000 min
 Lab File: VN076454.D
 Acq: 30 Jan 2023 14:05

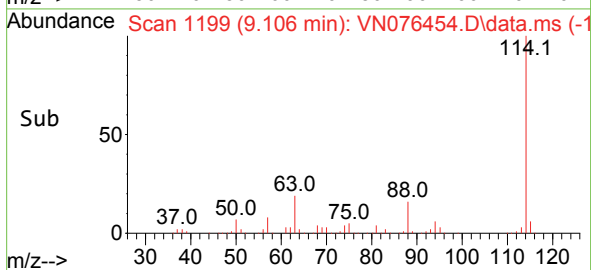
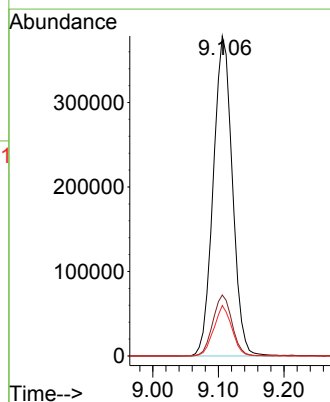
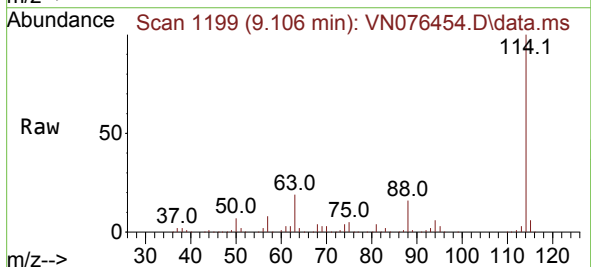
Instrument :
 MSVOA_N
 ClientSampleId :

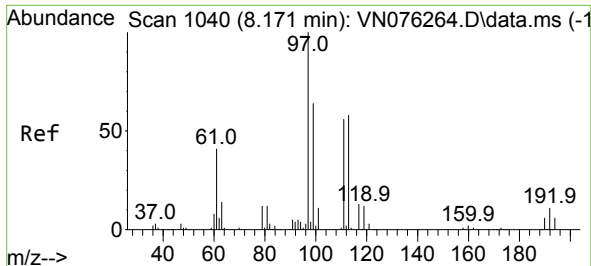
Tgt Ion: 65 Resp: 276563
 Ion Ratio Lower Upper
 65 100
 67 50.5 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.106 min Scan# 1199
 Delta R.T. -0.000 min
 Lab File: VN076454.D
 Acq: 30 Jan 2023 14:05

Tgt Ion: 114 Resp: 765748
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 35.8
 88 15.8 0.0 28.0





#35

Dibromofluoromethane

Concen: 49.120 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

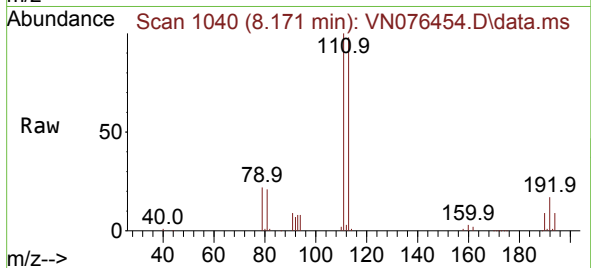
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Acq: 30 Jan 2023 14:05

Instrument :

MSVOA_N

ClientSampleId :



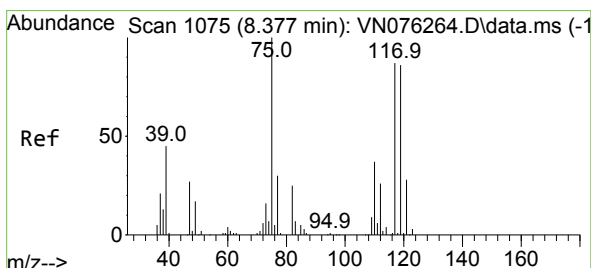
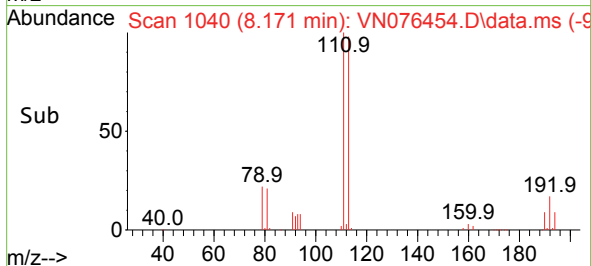
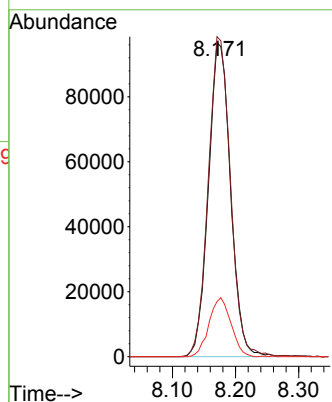
Tgt Ion:113 Resp: 235288

Ion Ratio Lower Upper

113 100

111 102.5 82.7 124.1

192 18.6 15.6 23.4



#36

1,1-Dichloropropene

Concen: 5.287 ug/l

RT: 8.229 min Scan# 1050

Delta R.T. -0.148 min

Lab File: VN076454.D

Acq: 30 Jan 2023 14:05

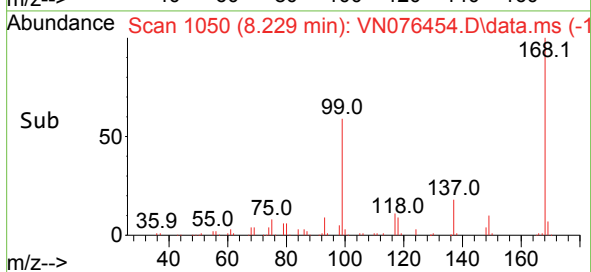
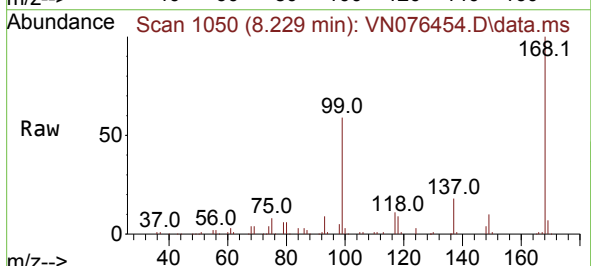
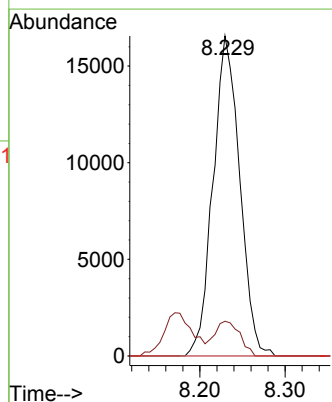
Tgt Ion: 75 Resp: 35984

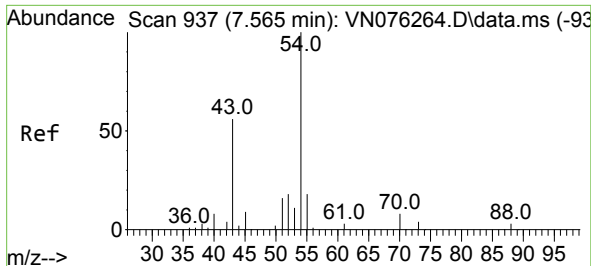
Ion Ratio Lower Upper

75 100

110 10.4 18.8 56.3#

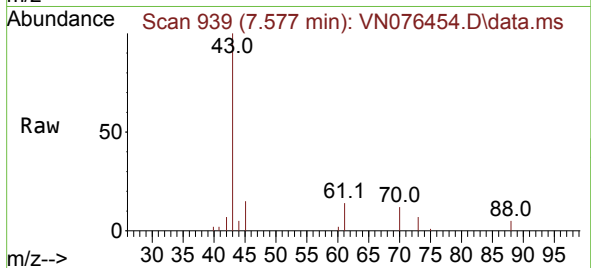
77 0.0 25.0 37.4#



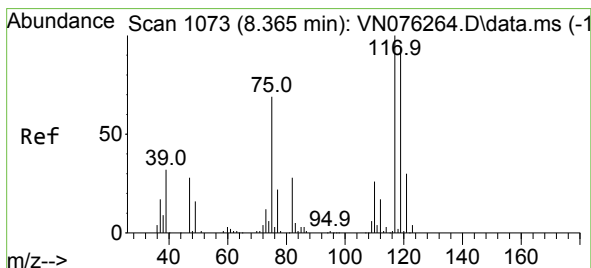
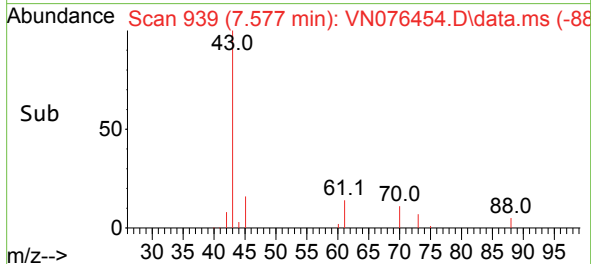
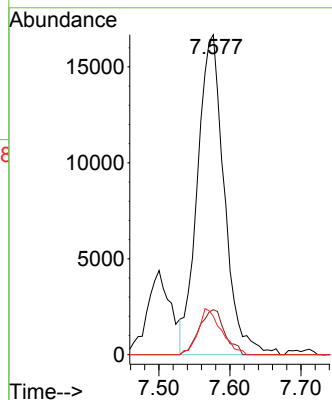


#37
Ethyl Acetate
Concen: 8.027 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN076454.D
Acq: 30 Jan 2023 14:05

Instrument :
MSVOA_N
ClientSampleId :

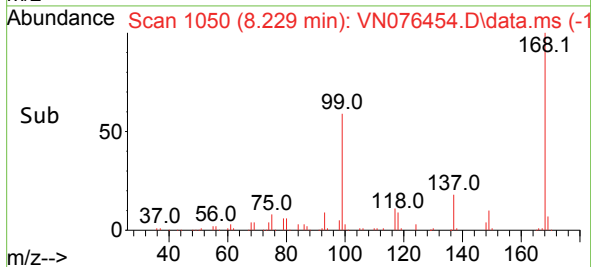
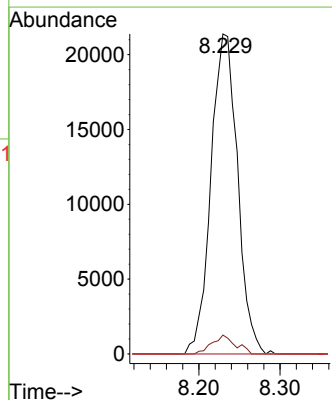
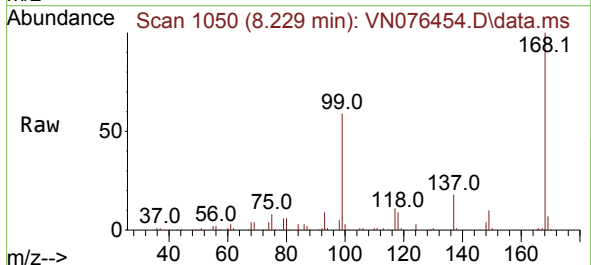


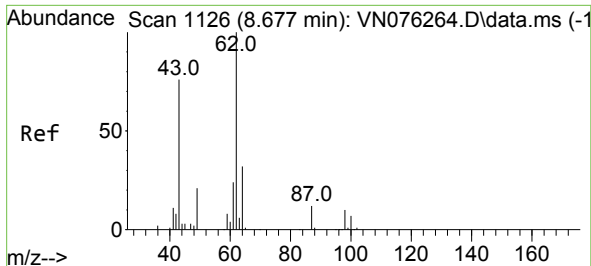
Tgt Ion: 43 Resp: 43655
Ion Ratio Lower Upper
43 100
61 13.4 11.1 16.7
70 12.5 10.0 15.0



#38
Carbon Tetrachloride
Concen: 6.411 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.136 min
Lab File: VN076454.D
Acq: 30 Jan 2023 14:05

Tgt Ion: 117 Resp: 48663
Ion Ratio Lower Upper
117 100
119 5.9 75.4 113.0#
121 0.0 24.2 36.2#





#42

1,2-Dichloroethane

Concen: 0.243 ug/l

RT: 8.682 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN076454.D

Acq: 30 Jan 2023 14:05

Instrument :

MSVOA_N

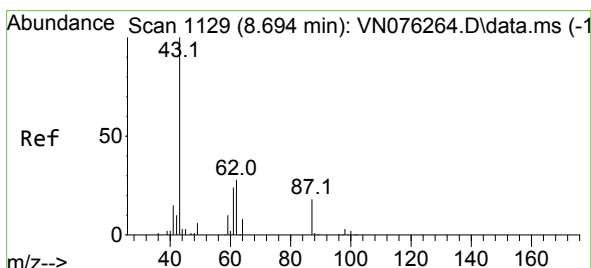
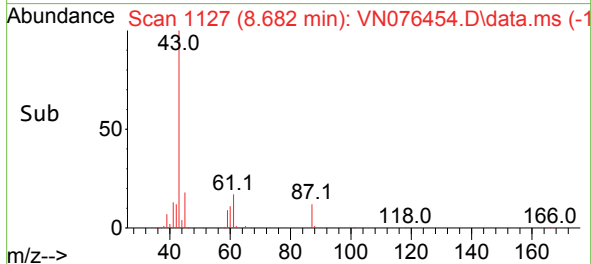
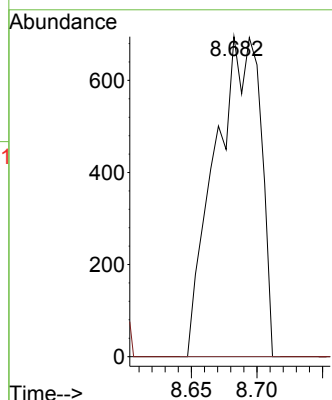
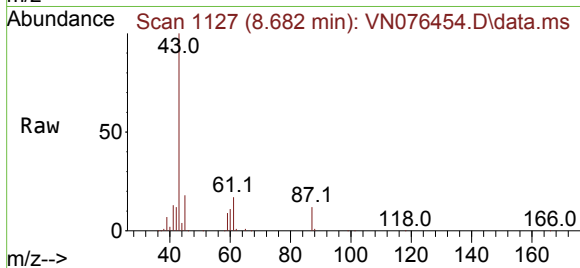
ClientSampleId :

Tgt Ion: 62 Resp: 1693

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.4



#43

Isopropyl Acetate

Concen: 34.697 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VN076454.D

Acq: 30 Jan 2023 14:05

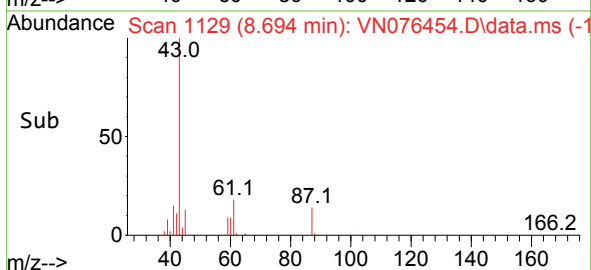
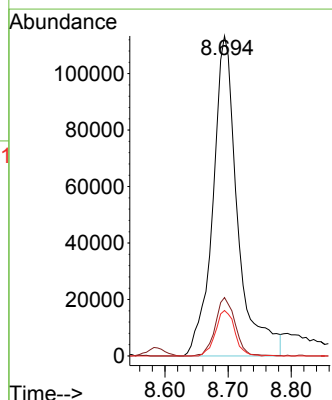
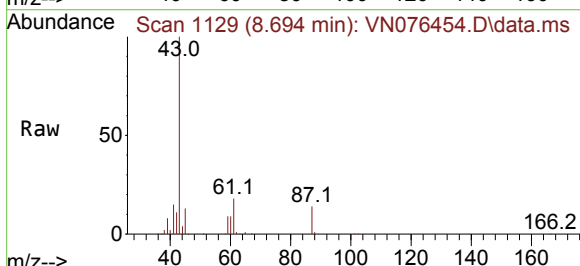
Tgt Ion: 43 Resp: 308162

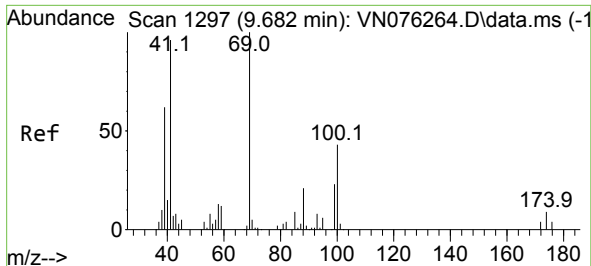
Ion Ratio Lower Upper

43 100

61 14.7 23.5 35.3#

87 11.0 13.8 20.6#

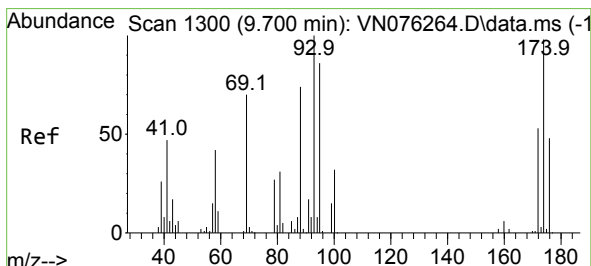
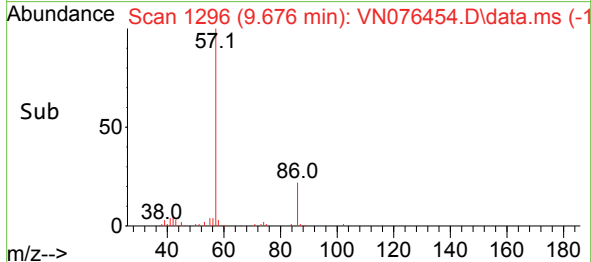
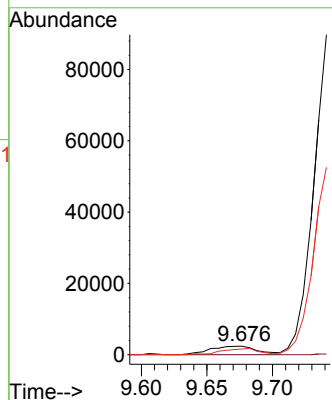
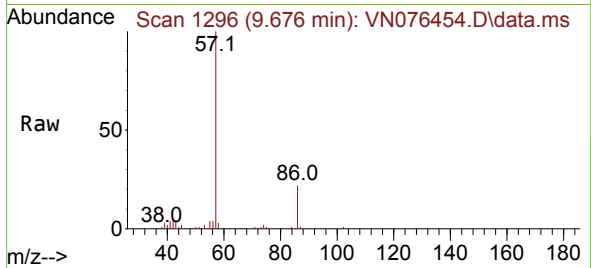




#48
Methyl methacrylate
Concen: 1.447 ug/l
RT: 9.676 min Scan# 1296
Delta R.T. -0.006 min
Lab File: VN076454.D
Acq: 30 Jan 2023 14:05

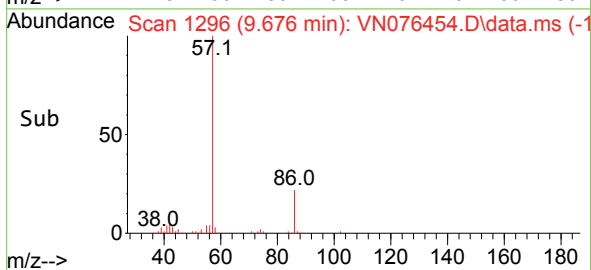
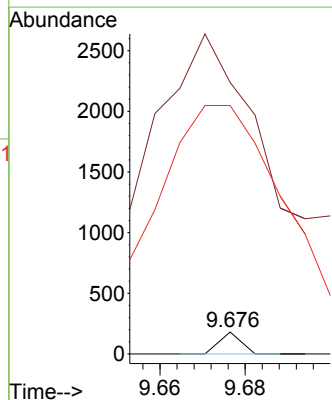
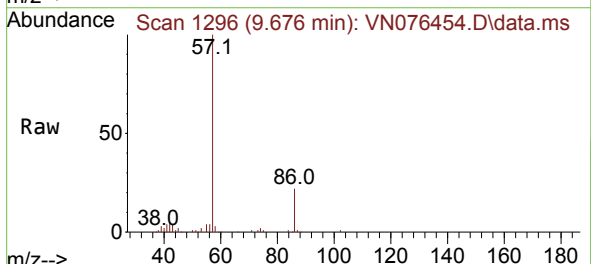
Instrument :
MSVOA_N
ClientSampleId :

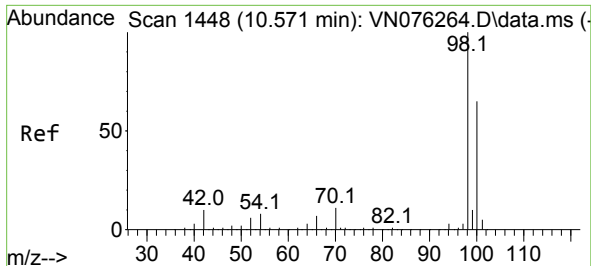
Tgt Ion: 41 Resp: 6085
Ion Ratio Lower Upper
41 100
69 0.0 80.8 121.2#
39 55.6 54.4 81.6



#49
1,4-Dioxane
Concen: 0.721 ug/l
RT: 9.676 min Scan# 1296
Delta R.T. -0.024 min
Lab File: VN076454.D
Acq: 30 Jan 2023 14:05

Tgt Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 0.0 18.1 27.1#
58 7504.7 46.5 69.7#

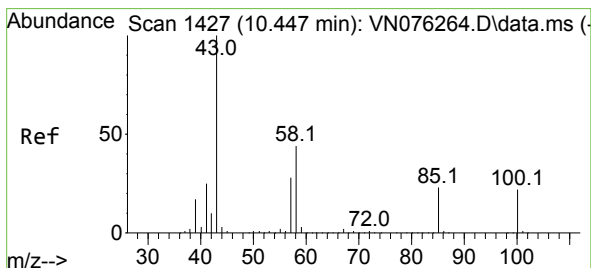
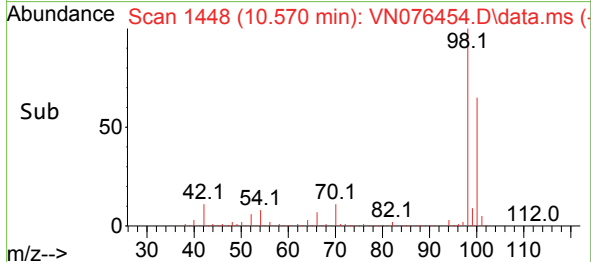
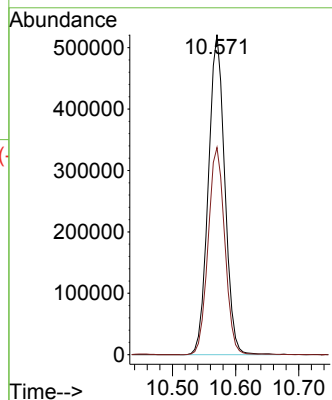
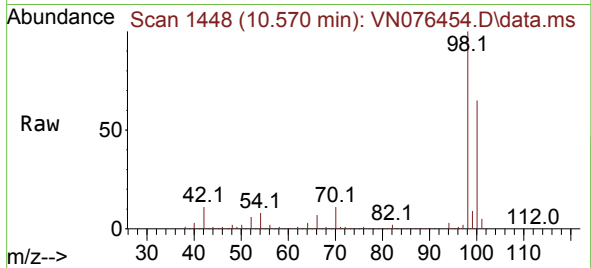




#50
Toluene-d8
Concen: 53.252 ug/l
RT: 10.570 min Scan# 1448
Delta R.T. -0.001 min
Lab File: VN076454.D
Acq: 30 Jan 2023 14:05

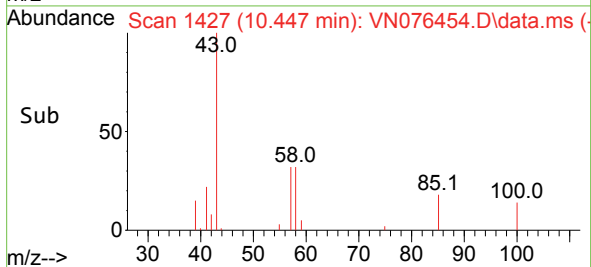
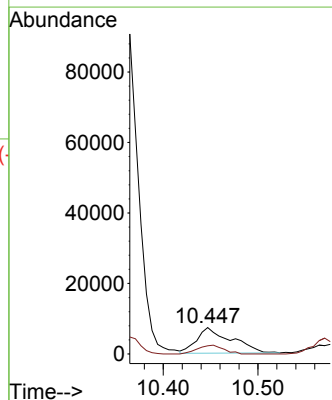
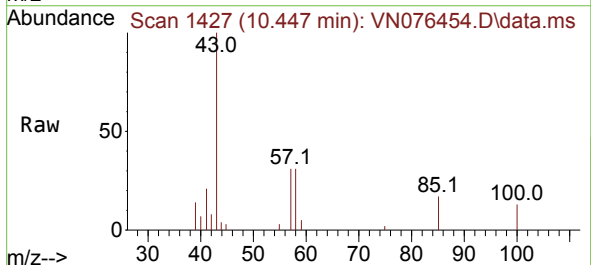
Instrument :
MSVOA_N
ClientSampleId :

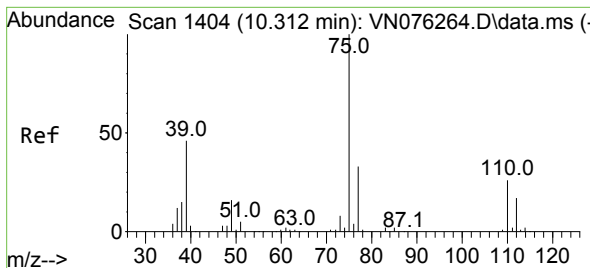
Tgt Ion: 98 Resp: 942040
Ion Ratio Lower Upper
98 100
100 65.7 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 3.532 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. -0.000 min
Lab File: VN076454.D
Acq: 30 Jan 2023 14:05

Tgt Ion: 43 Resp: 18413
Ion Ratio Lower Upper
43 100
58 25.8 35.1 52.7#

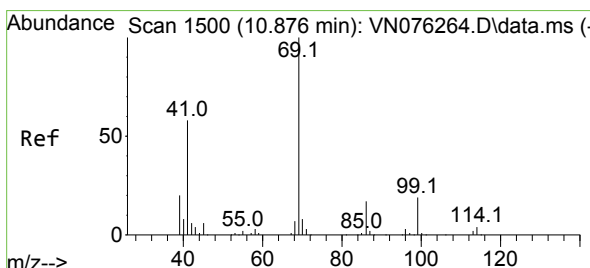
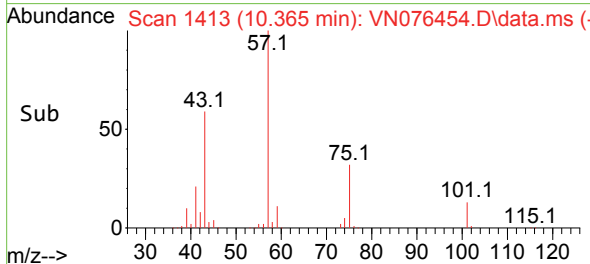
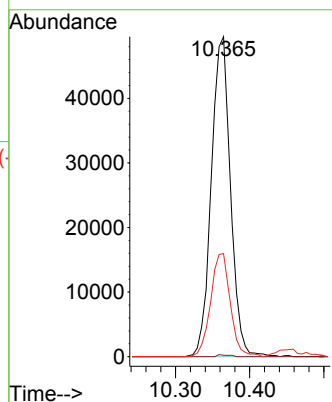
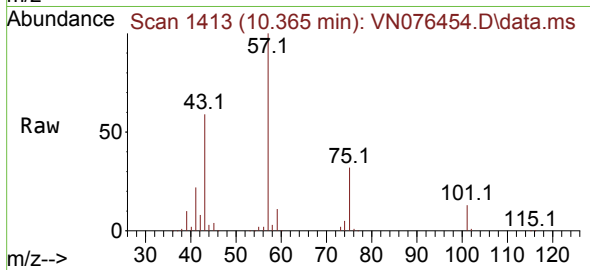




#54
 cis-1,3-Dichloropropene
 Concen: 11.381 ug/l
 RT: 10.365 min Scan# 1404
 Delta R.T. 0.053 min
 Lab File: VN076454.D
 Acq: 30 Jan 2023 14:05

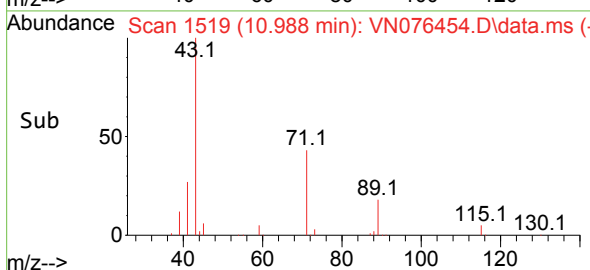
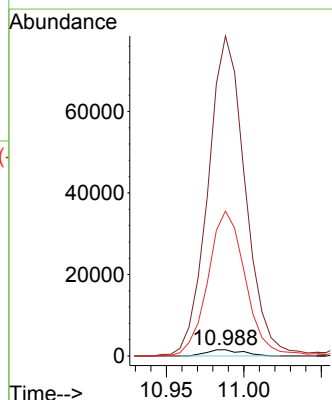
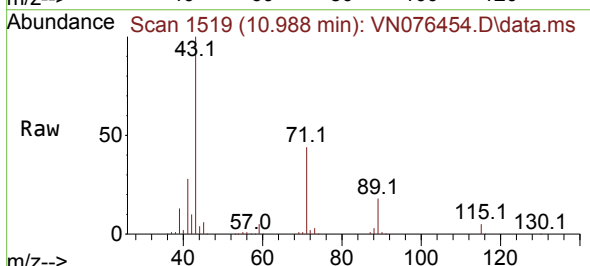
Instrument :
 MSVOA_N
 ClientSampleId :

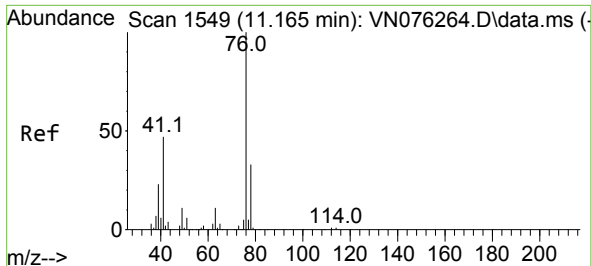
Tgt Ion: 75 Resp: 89068
 Ion Ratio Lower Upper
 75 100
 77 0.4 26.5 39.7#
 39 32.2 37.1 55.7#



#56
 Ethyl methacrylate
 Concen: 0.371 ug/l
 RT: 10.988 min Scan# 1519
 Delta R.T. 0.112 min
 Lab File: VN076454.D
 Acq: 30 Jan 2023 14:05

Tgt Ion: 69 Resp: 2492
 Ion Ratio Lower Upper
 69 100
 41 5280.1 45.3 67.9#
 39 2412.8 29.3 43.9#





#57

1,3-Dichloropropane

Concen: 1.369 ug/l

RT: 11.206 min Scan# 11572

Delta R.T. 0.041 min

Lab File: VN076454.D

Acq: 30 Jan 2023 14:05

Instrument :

MSVOA_N

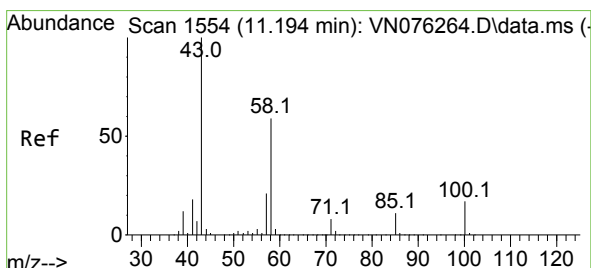
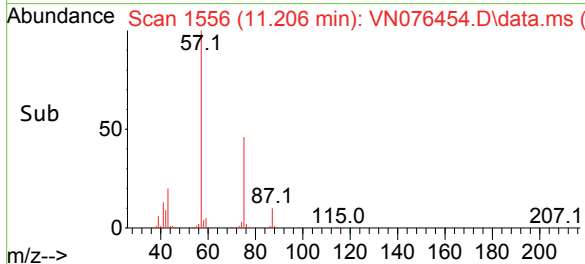
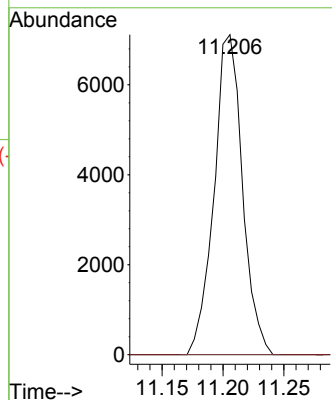
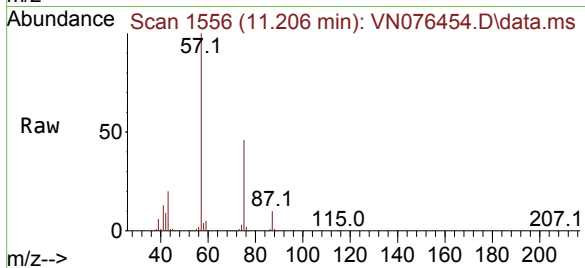
ClientSampleId :

Tgt Ion: 76 Resp: 11572

Ion Ratio Lower Upper

76 100

78 0.0 26.4 39.6#



#59

2-Hexanone

Concen: 48.506 ug/l

RT: 11.170 min Scan# 1550

Delta R.T. -0.024 min

Lab File: VN076454.D

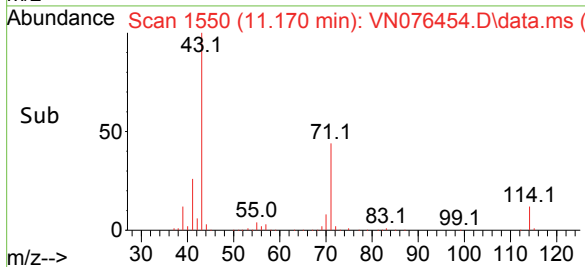
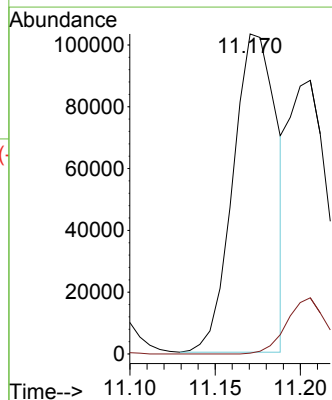
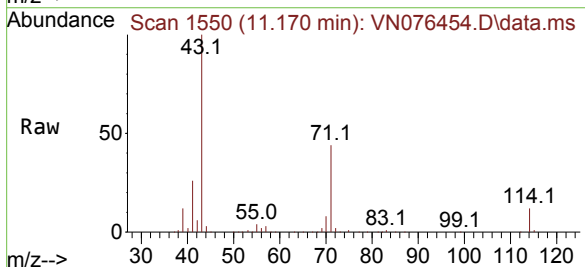
Acq: 30 Jan 2023 14:05

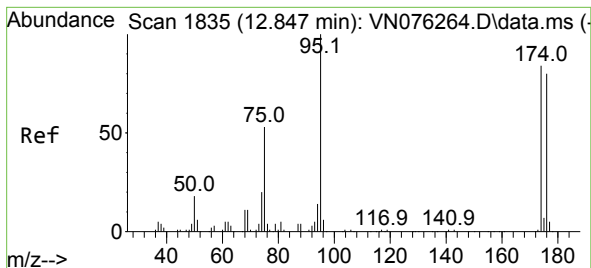
Tgt Ion: 43 Resp: 183265

Ion Ratio Lower Upper

43 100

58 0.0 30.1 90.3#





#62

4-Bromofluorobenzene

Concen: 49.517 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.006 min

Lab File: VN076454.D

Acq: 30 Jan 2023 14:05

Instrument :

MSVOA_N

ClientSampleId :

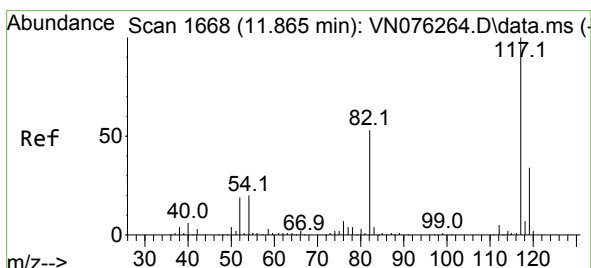
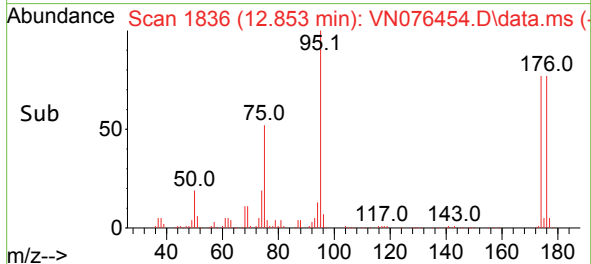
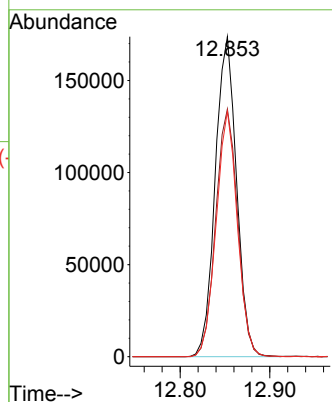
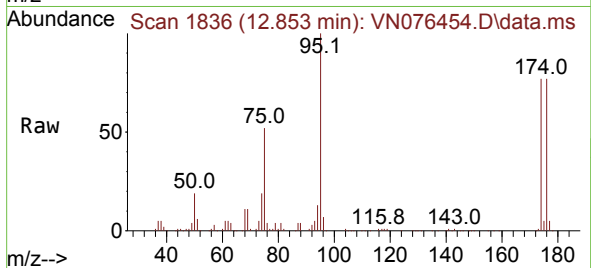
Tgt Ion: 95 Resp: 285964

Ion Ratio Lower Upper

95 100

174 79.6 0.0 174.6

176 76.5 0.0 167.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.870 min Scan# 1669

Delta R.T. 0.005 min

Lab File: VN076454.D

Acq: 30 Jan 2023 14:05

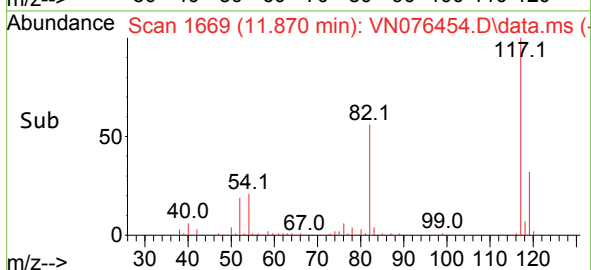
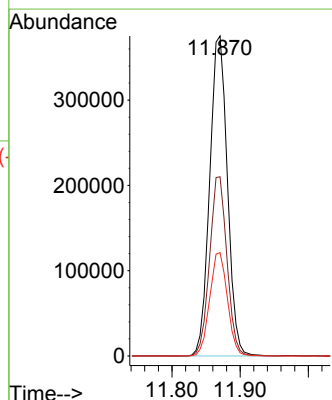
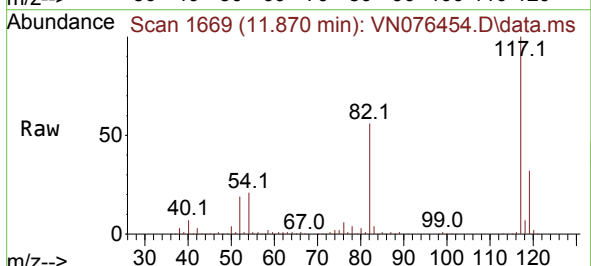
Tgt Ion: 117 Resp: 678747

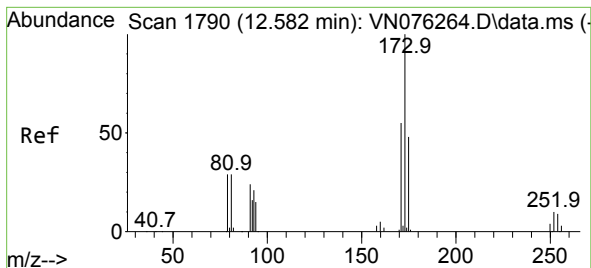
Ion Ratio Lower Upper

117 100

82 56.0 42.2 63.2

119 32.3 26.9 40.3





#71

Bromoform

Concen: 0.444 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. 0.265 min

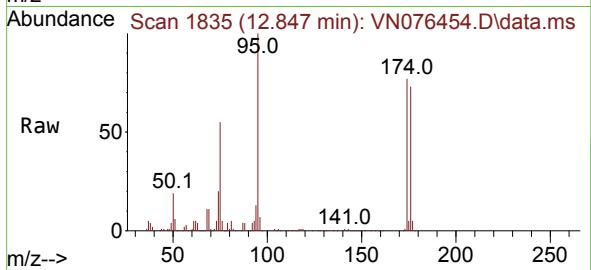
Lab File: VN076454.D

Acq: 30 Jan 2023 14:05

Instrument :

MSVOA_N

ClientSampleId :



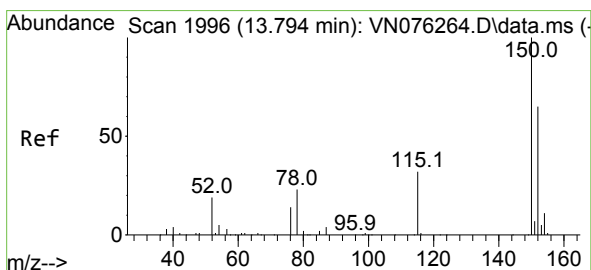
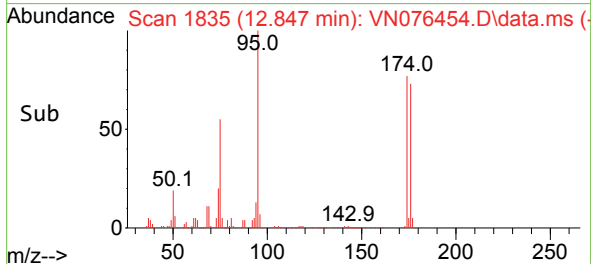
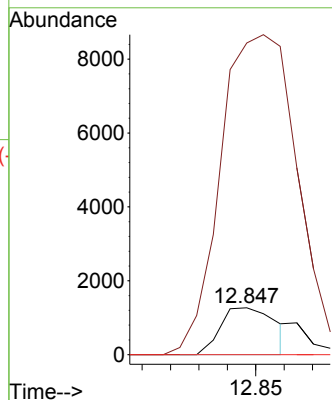
Tgt Ion:173 Resp: 1712

Ion Ratio Lower Upper

173 100

175 776.8 24.1 72.4#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 1996

Delta R.T. -0.000 min

Lab File: VN076454.D

Acq: 30 Jan 2023 14:05

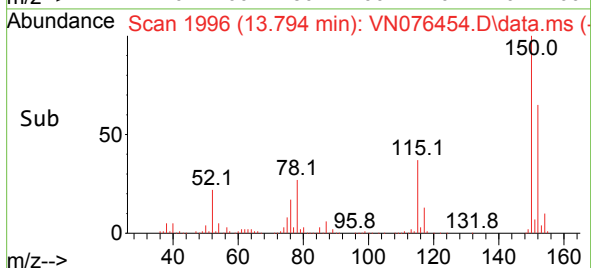
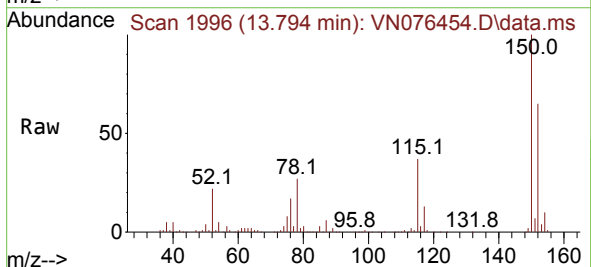
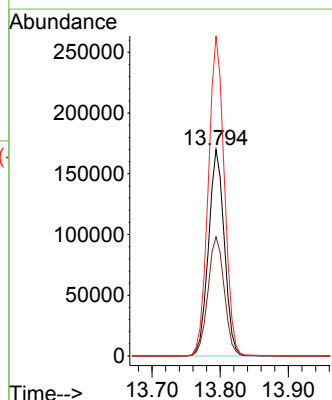
Tgt Ion:152 Resp: 274619

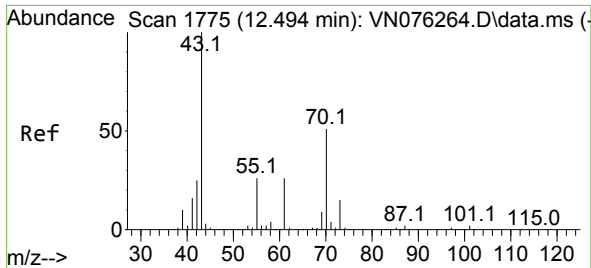
Ion Ratio Lower Upper

152 100

115 59.5 29.6 88.9

150 156.8 0.0 351.4

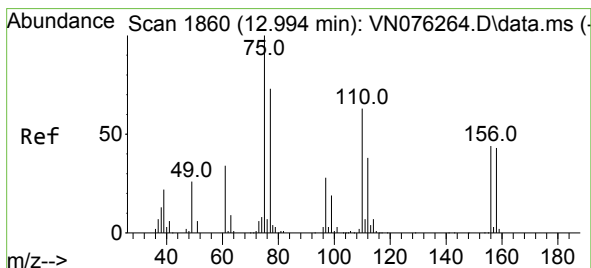
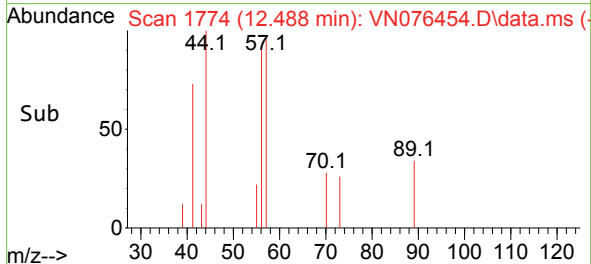
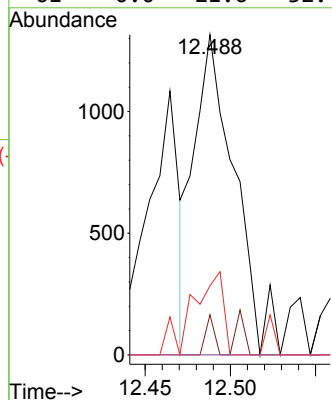
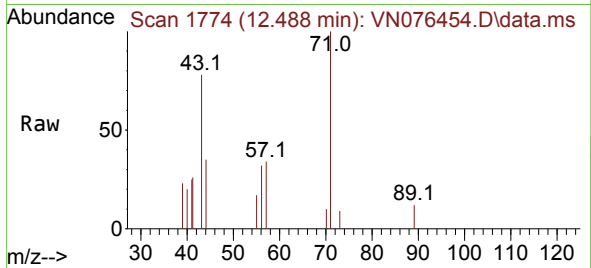




#74
N-amy1 acetate
Concen: 0.359 ug/l
RT: 12.488 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN076454.D
Acq: 30 Jan 2023 14:05

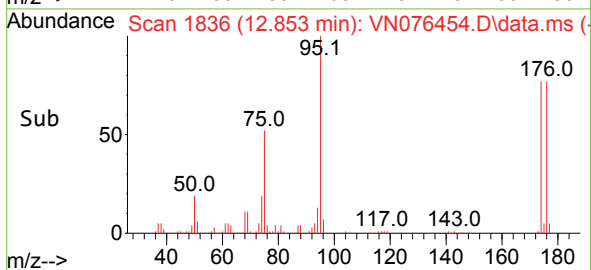
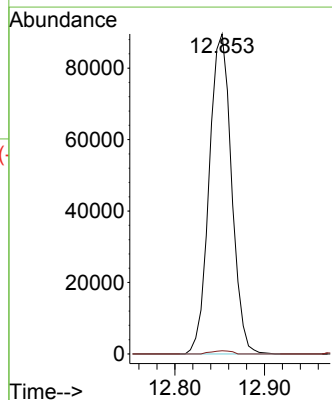
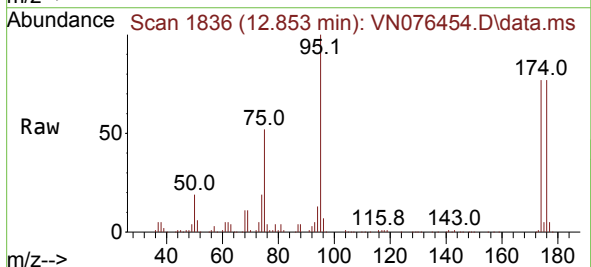
Instrument :
MSVOA_N
ClientSampleId :

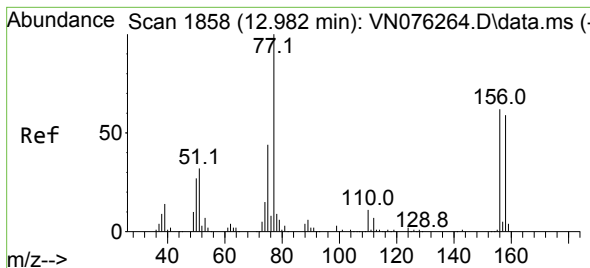
Tgt Ion: 43	Resp: 2194
Ion Ratio	Lower Upper
43	100
70	2.6 41.2 61.8#
55	19.9 21.0 31.6#
61	0.0 21.6 32.4#



#76
1,2,3-Trichloropropane
Concen: 30.575 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076454.D
Acq: 30 Jan 2023 14:05

Tgt Ion: 75	Resp: 154805
Ion Ratio	Lower Upper
75	100
77	0.9 75.2 225.6#





#77

Bromobenzene

Concen: Below Cal

RT: 12.982 min Scan# 1858

Delta R.T. 0.000 min

Lab File: VN076454.D

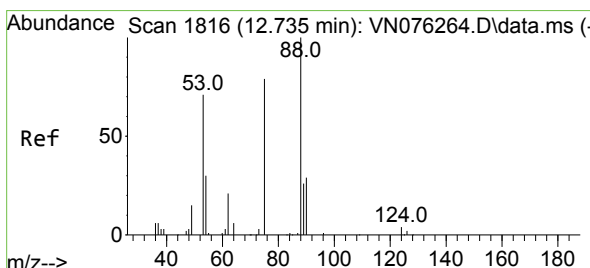
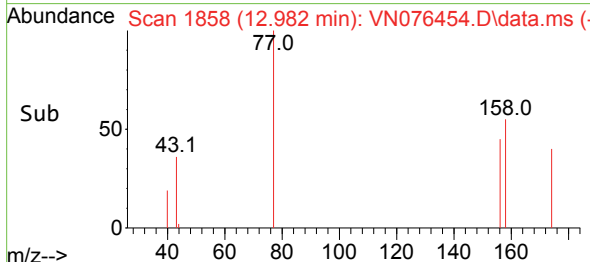
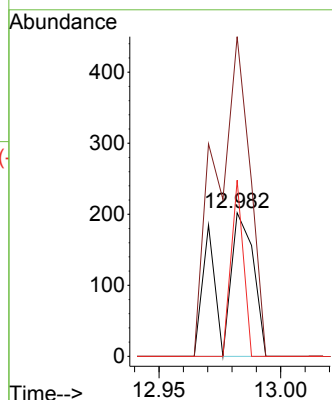
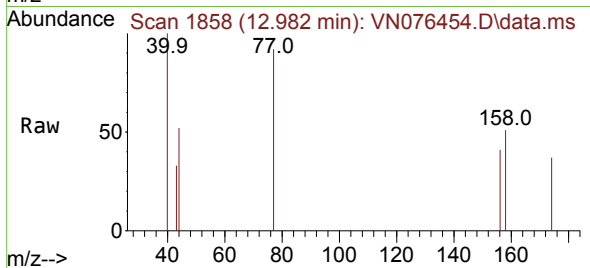
Acq: 30 Jan 2023 14:05

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	156	Resp:	192
Ion	Ratio	Lower	Upper
156	100		
77	223.4	93.4	280.2
158	45.8	48.4	145.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 93.791 ug/l

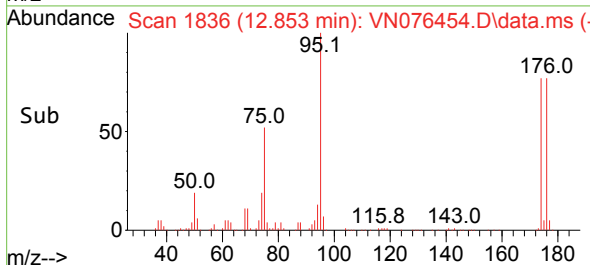
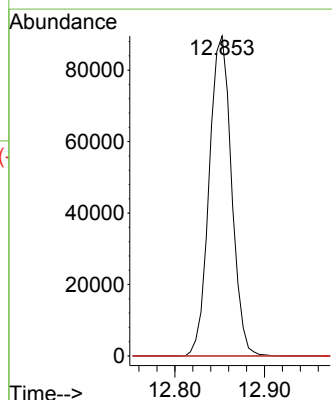
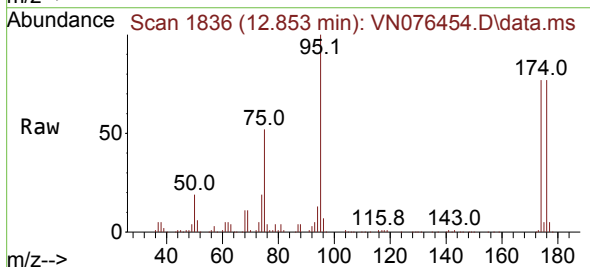
RT: 12.853 min Scan# 1836

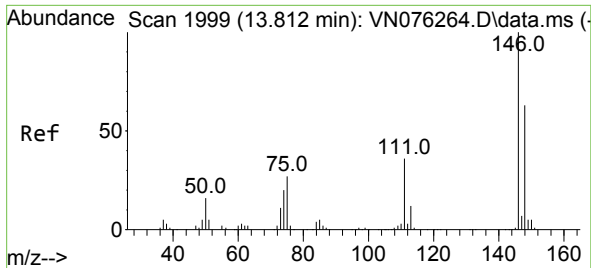
Delta R.T. 0.118 min

Lab File: VN076454.D

Acq: 30 Jan 2023 14:05

Tgt Ion:	75	Resp:	154805
Ion	Ratio	Lower	Upper
75	100		
53	0.0	75.8	113.8#
89	0.0	37.0	55.6#

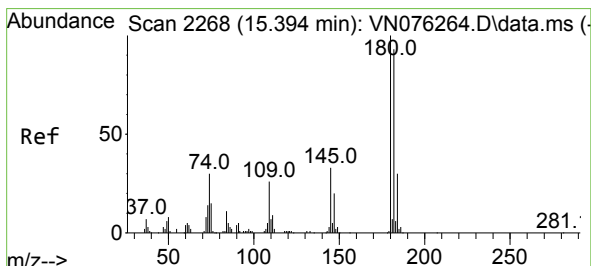
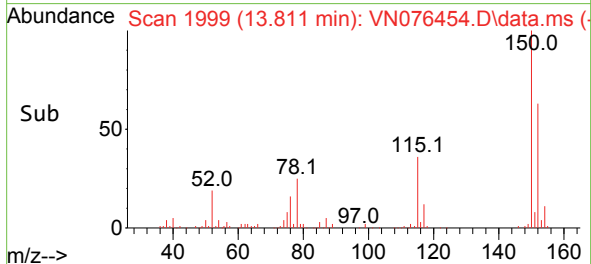
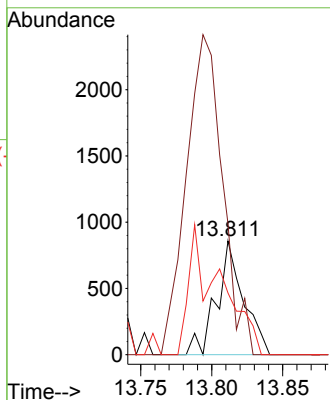
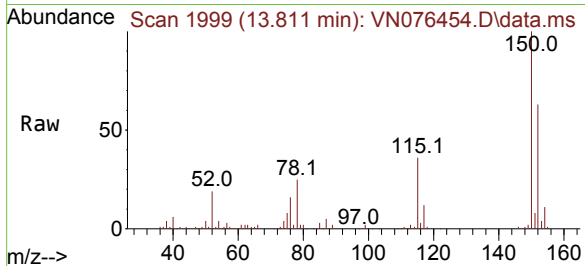




#88
 1,4-Dichlorobenzene
 Concen: 0.219 ug/l
 RT: 13.811 min Scan# 1999
 Delta R.T. -0.001 min
 Lab File: VN076454.D
 Acq: 30 Jan 2023 14:05

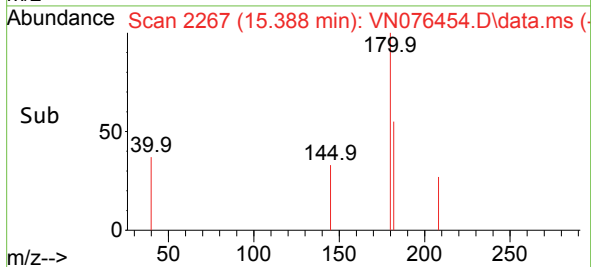
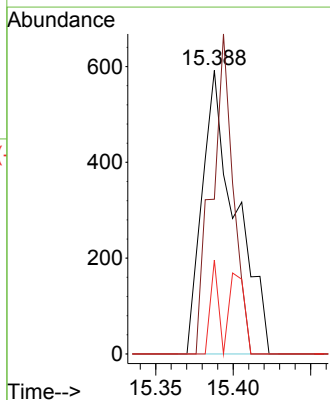
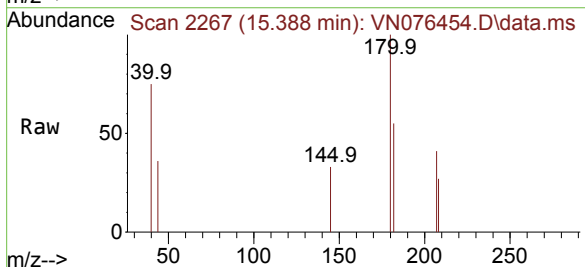
Instrument :
 MSVOA_N
 ClientSampleId :

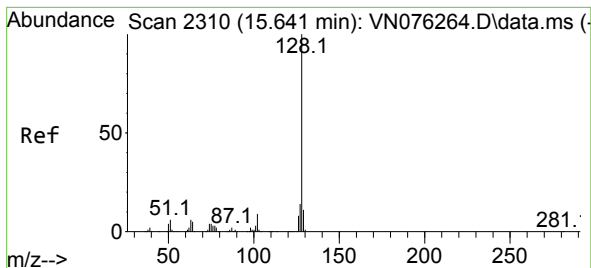
Tgt Ion:146 Resp: 1126
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.1 57.5#
 148 0.0 31.9 95.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 1.484 ug/l
 RT: 15.388 min Scan# 2267
 Delta R.T. -0.006 min
 Lab File: VN076454.D
 Acq: 30 Jan 2023 14:05

Tgt Ion:180 Resp: 883
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.0 141.2#
 145 7.8 15.2 45.5#





#95

Naphthalene

Concen: 2.083 ug/l

RT: 15.641 min Scan# 2310

Delta R.T. -0.000 min

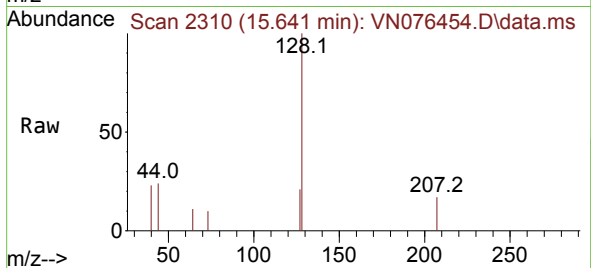
Lab File: VN076454.D

Acq: 30 Jan 2023 14:05

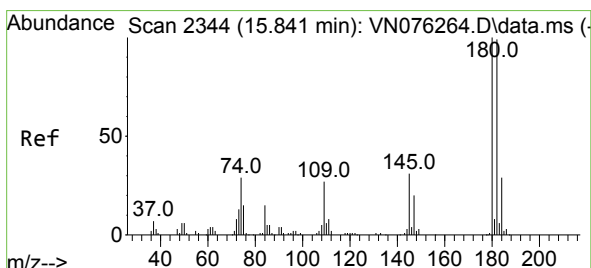
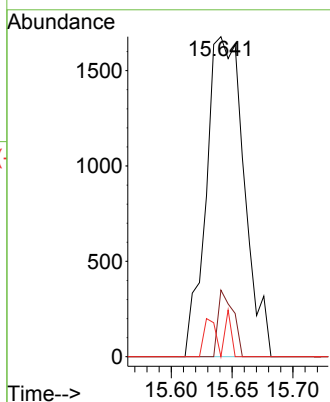
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:128	Resp:	3618
Ion	Ratio	Lower Upper
128	100	
127	8.3	10.3 15.5#
129	3.7	8.6 13.0#



#96

1,2,3-Trichlorobenzene

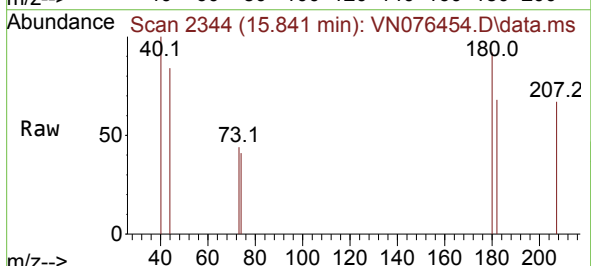
Concen: 1.297 ug/l

RT: 15.841 min Scan# 2344

Delta R.T. -0.000 min

Lab File: VN076454.D

Acq: 30 Jan 2023 14:05



Tgt Ion:180	Resp:	671
Ion	Ratio	Lower Upper
180	100	
182	62.3	47.5 142.5
145	8.0	15.9 47.6#

