

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022822\
 Data File : VN071088.D
 Acq On : 28 Feb 2022 11:41
 Operator : JC\MD
 Sample : VN0228MBL01
 Misc : 5.00g/10.0mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0228MBL01

Quant Time: Feb 28 16:06:26 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021522W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 21 07:57:15 2022
 Response via : Initial Calibration

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

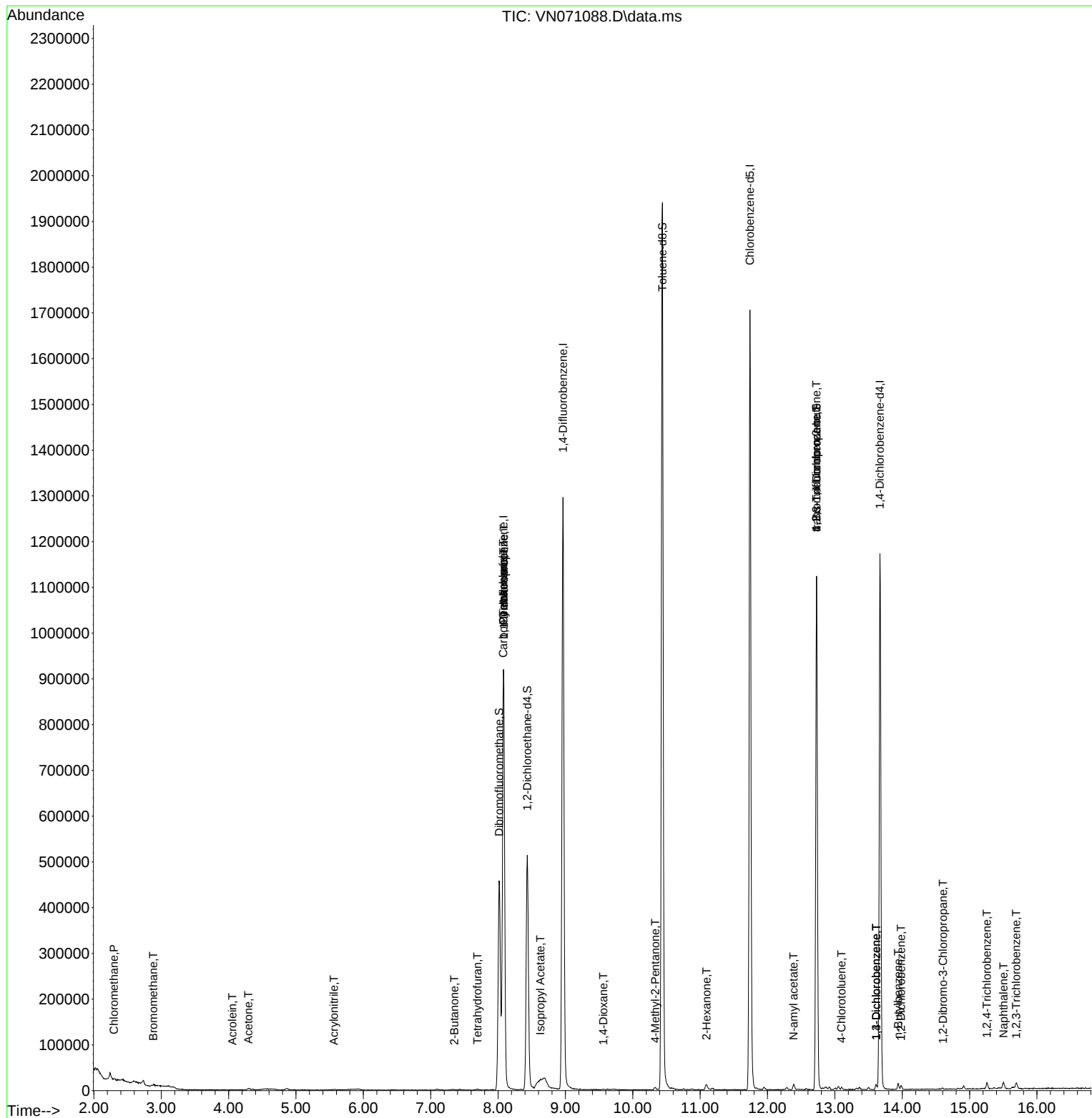
Internal Standards						
1) Pentafluorobenzene	8.081	168	720463	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1152885	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1010053	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	332687	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	437918	53.210	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 106.420%			
35) Dibromofluoromethane	8.016	113	341165	49.752	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 99.500%			
50) Toluene-d8	10.439	98	1374526	49.913	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 99.820%			
62) 4-Bromofluorobenzene	12.727	95	401182	40.756	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 81.520%			
Target Compounds						Qvalue
3) Chloromethane	2.299	50	2098	0.223	ug/l #	71
5) Bromomethane	2.881	94	2035	0.380	ug/l	84
13) Acrolein	4.057	56	814	0.607	ug/l	93
15) Acrylonitrile	5.563	53	884	0.200	ug/l #	74
16) Acetone	4.293	43	3825	0.844	ug/l	95
25) 2-Butanone	7.351	43	2136	0.354	ug/l #	48
29) Tetrahydrofuran	7.692	42	881	0.226	ug/l #	71
31) Cyclohexane	8.081	56	14524	1.020	ug/l #	1
36) 1,1-Dichloropropene	8.086	75	54324	4.835	ug/l #	50
38) Carbon Tetrachloride	8.075	117	70302	6.351	ug/l #	15
43) Isopropyl Acetate	8.628	43	36719	1.933	ug/l #	55
49) 1,4-Dioxane	9.563	88	59	0.370	ug/l #	1
51) 4-Methyl-2-Pentanone	10.333	43	5428	0.470	ug/l #	85
59) 2-Hexanone	11.092	43	11718	1.475	ug/l	95
74) N-amyl acetate	12.386	43	7873	0.920	ug/l #	90
76) 1,2,3-Trichloropropane	12.727	75	200980	25.658	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	200980	83.142	ug/l #	5
82) 4-Chlorotoluene	13.098	91	4081	0.230	ug/l	92
87) 1,3-Dichlorobenzene	13.616	146	3453	0.298	ug/l	94
88) 1,4-Dichlorobenzene	13.616	146	3453	0.304	ug/l	94
89) n-Butylbenzene	13.939	91	7946	0.438	ug/l	98
91) 1,2-Dichlorobenzene	13.980	146	4157	0.381	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.604	75	983	0.713	ug/l #	60
93) 1,2,4-Trichlorobenzene	15.257	180	4976	2.779	ug/l	97
95) Naphthalene	15.504	128	14338	5.857	ug/l	98
96) 1,2,3-Trichlorobenzene	15.692	180	6502	3.610	ug/l	86

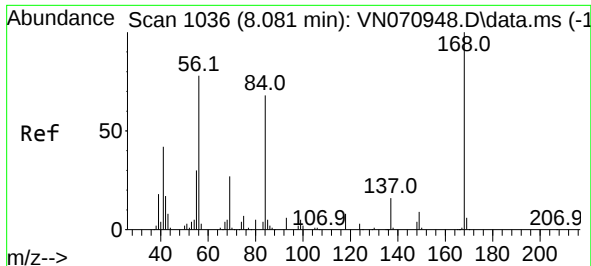
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

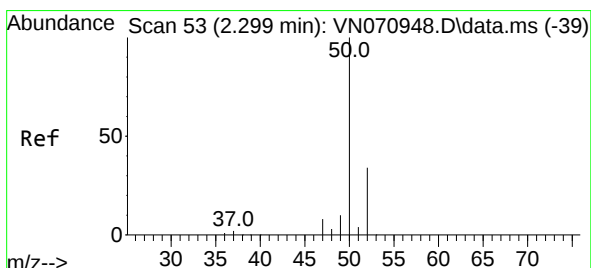
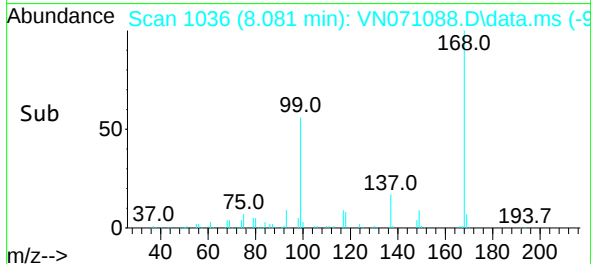
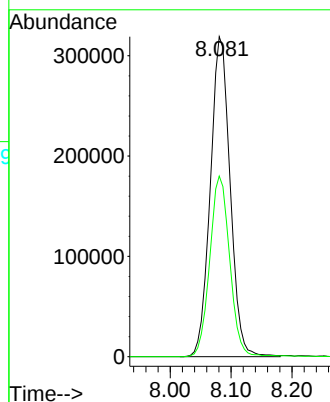
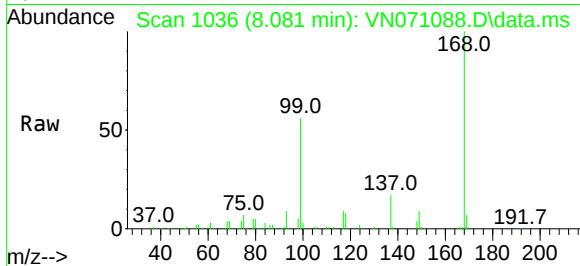




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

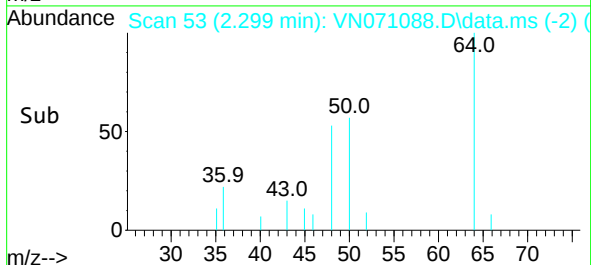
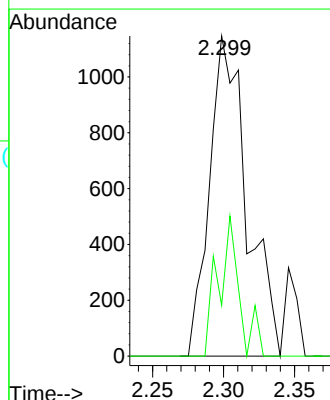
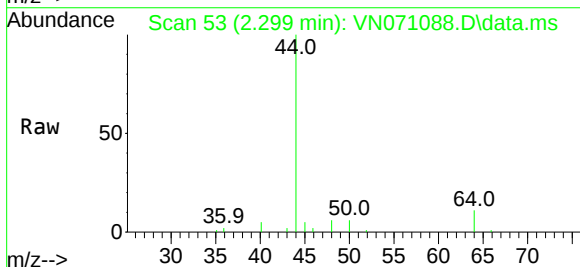
Instrument :
MSVOA_N
ClientSampleId :
VN0228MBL01

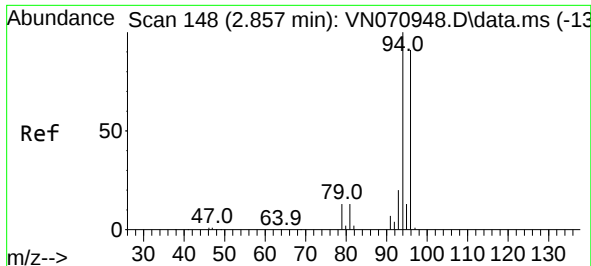
Tgt Ion:168 Resp: 720463
Ion Ratio Lower Upper
168 100
99 56.5 41.3 61.9



#3
Chloromethane
Concen: 0.223 ug/l
RT: 2.299 min Scan# 53
Delta R.T. 0.000 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

Tgt Ion: 50 Resp: 2098
Ion Ratio Lower Upper
50 100
52 15.9 25.4 38.0#

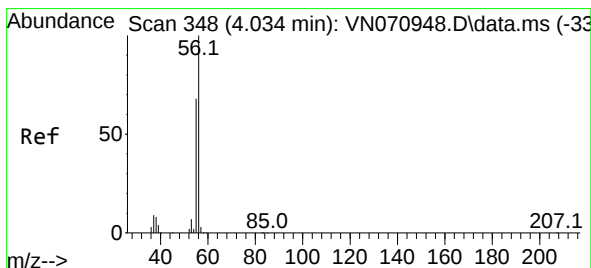
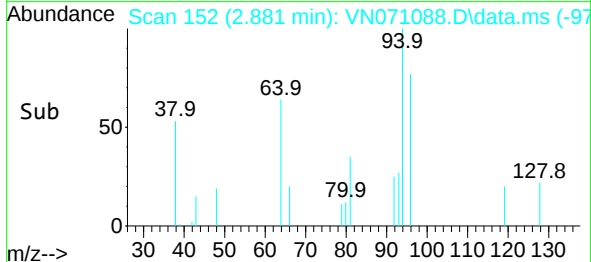
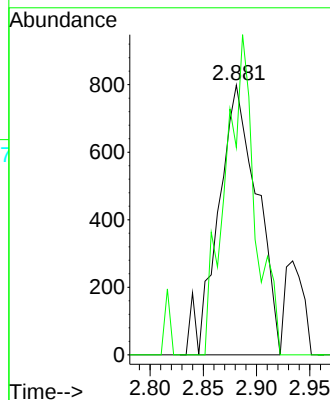
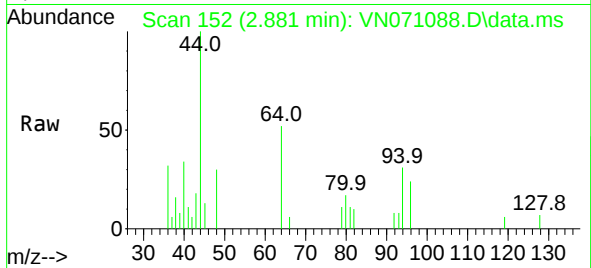




#5
Bromomethane
Concen: 0.380 ug/l
RT: 2.881 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

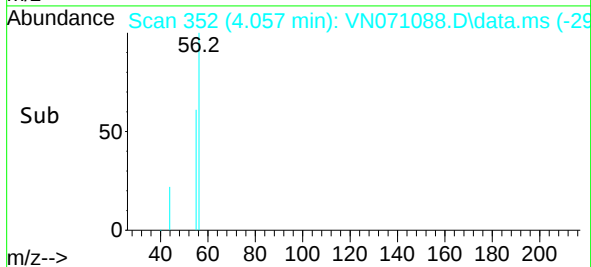
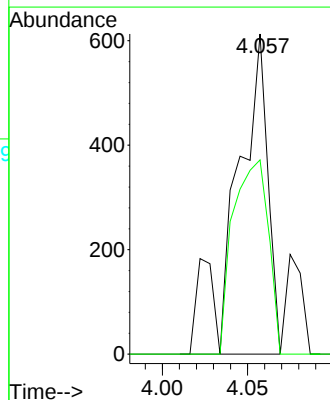
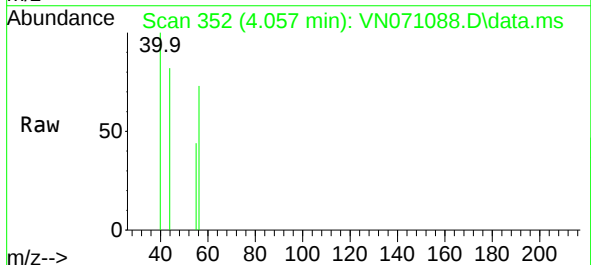
Instrument :
MSVOA_N
ClientSampleId :
VN0228MBL01

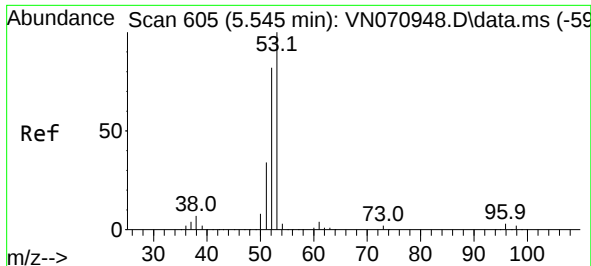
Tgt Ion: 94 Resp: 2035
Ion Ratio Lower Upper
94 100
96 76.8 73.8 110.8



#13
Acrolein
Concen: 0.607 ug/l
RT: 4.057 min Scan# 352
Delta R.T. 0.023 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

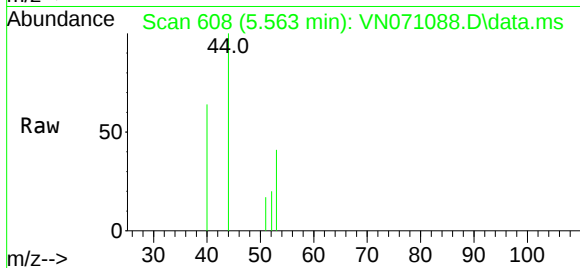
Tgt Ion: 56 Resp: 814
Ion Ratio Lower Upper
56 100
55 65.4 56.6 85.0



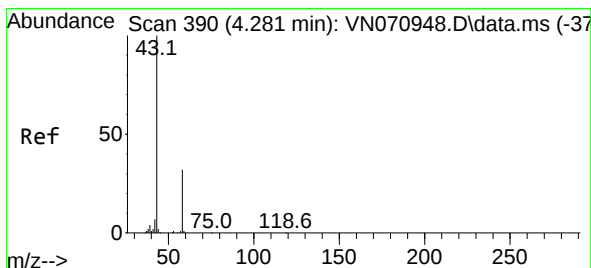
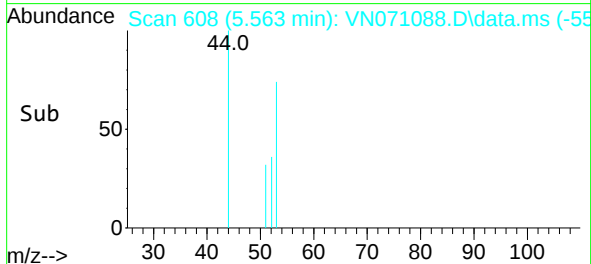
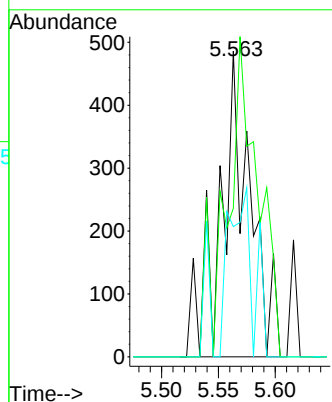


#15
Acrylonitrile
Concen: 0.200 ug/l
RT: 5.563 min Scan# 605
Delta R.T. 0.018 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

Instrument :
MSVOA_N
ClientSampleId :
VN0228MBL01

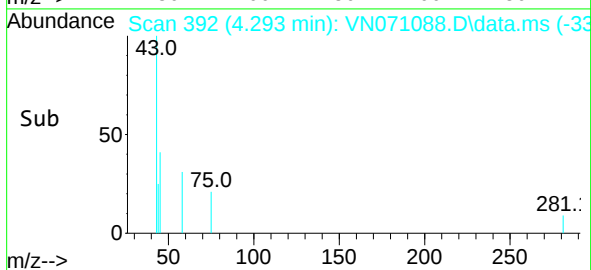
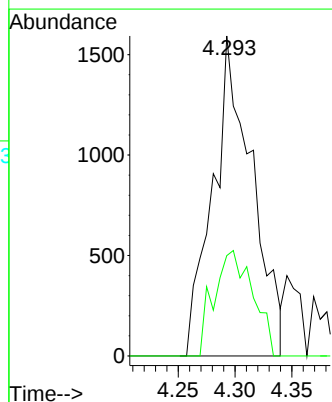
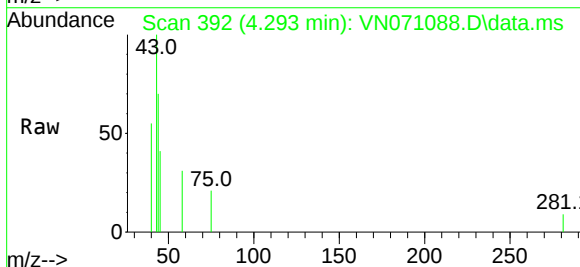


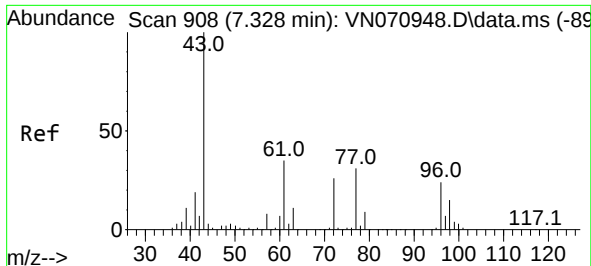
Tgt Ion: 53 Resp: 884
Ion Ratio Lower Upper
53 100
52 111.1 66.2 99.2#
51 45.4 29.6 44.4#



#16
Acetone
Concen: 0.844 ug/l
RT: 4.293 min Scan# 392
Delta R.T. 0.012 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

Tgt Ion: 43 Resp: 3825
Ion Ratio Lower Upper
43 100
58 31.3 23.1 34.7





#25

2-Butanone

Concen: 0.354 ug/l

RT: 7.351 min Scan# 91

Delta R.T. 0.024 min

Lab File: VN071088.D

Acq: 28 Feb 2022 11:41

Instrument :

MSVOA_N

ClientSampleId :

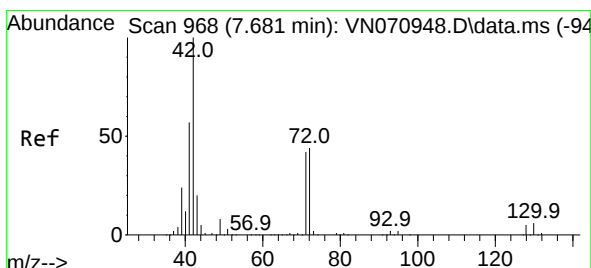
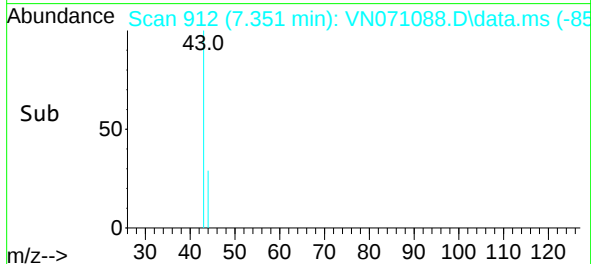
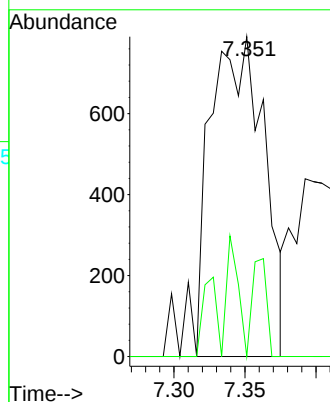
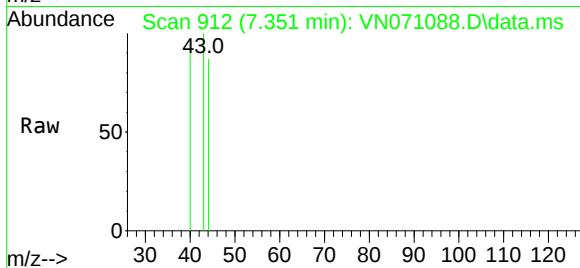
VN0228MBL01

Tgt Ion: 43 Resp: 2136

Ion Ratio Lower Upper

43 100

72 0.0 21.7 32.5#



#29

Tetrahydrofuran

Concen: 0.226 ug/l

RT: 7.692 min Scan# 970

Delta R.T. 0.012 min

Lab File: VN071088.D

Acq: 28 Feb 2022 11:41

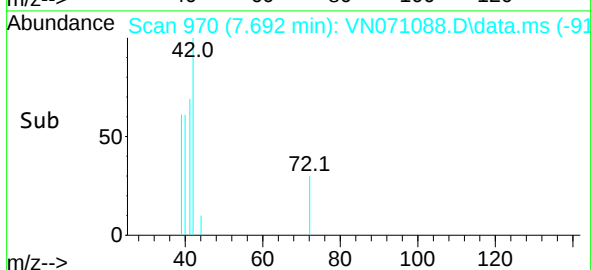
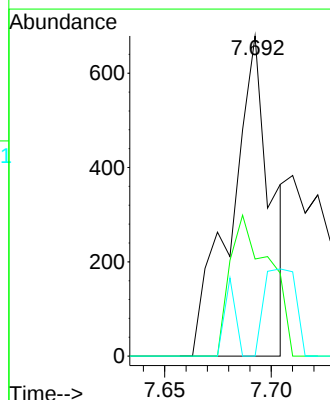
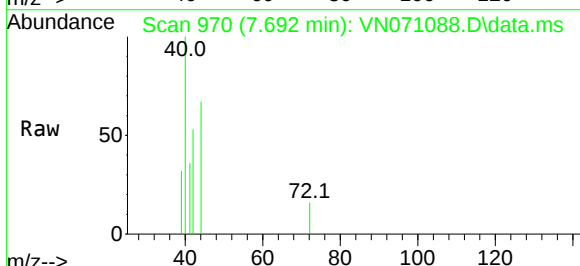
Tgt Ion: 42 Resp: 881

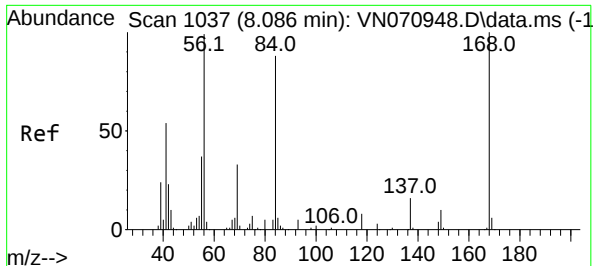
Ion Ratio Lower Upper

42 100

72 43.8 36.3 54.5

71 6.7 34.7 52.1#

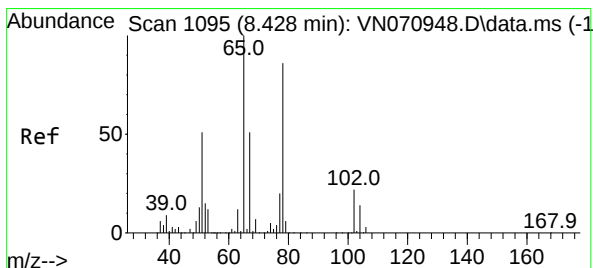
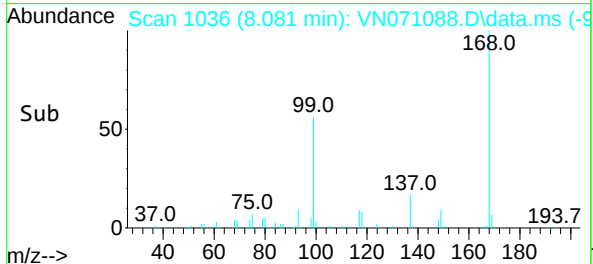
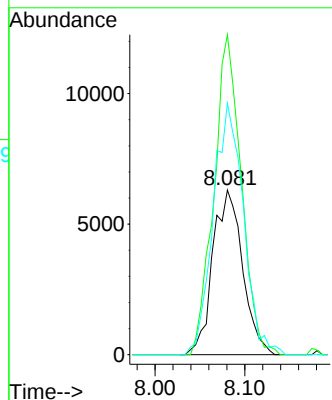
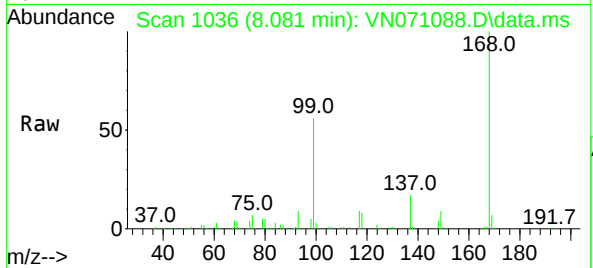




#31
Cyclohexane
Concen: 1.020 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.006 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

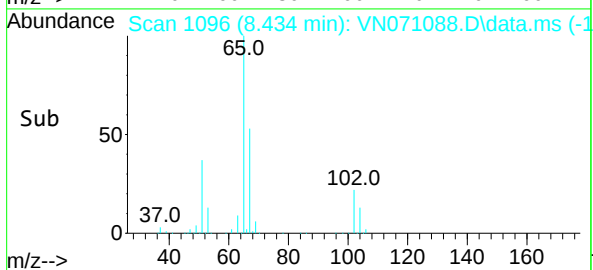
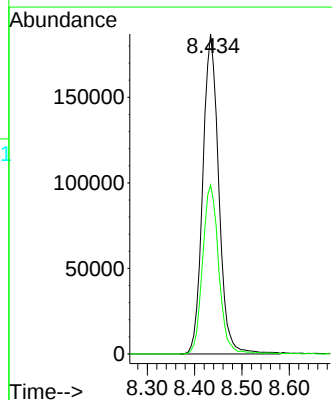
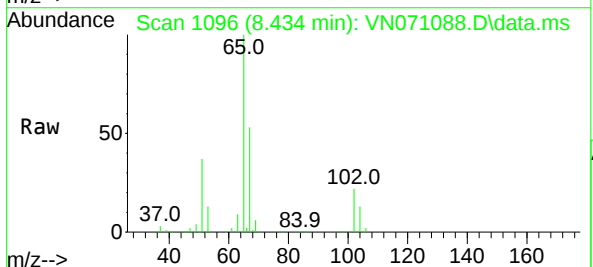
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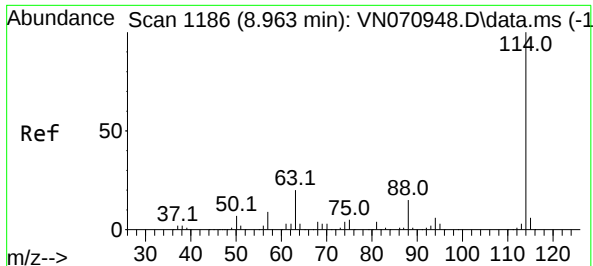
Tgt Ion: 56 Resp: 14524
Ion Ratio Lower Upper
56 100
69 194.3 27.1 40.7#
84 152.7 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 53.210 ug/l
RT: 8.434 min Scan# 1096
Delta R.T. 0.006 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

Tgt Ion: 65 Resp: 437918
Ion Ratio Lower Upper
65 100
67 53.1 0.0 103.0

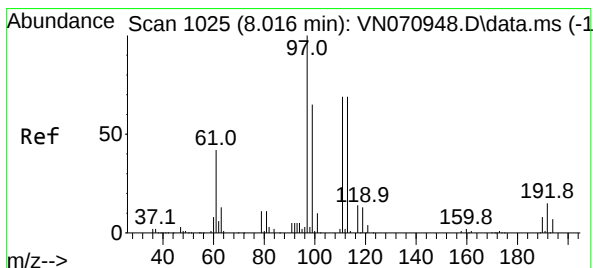
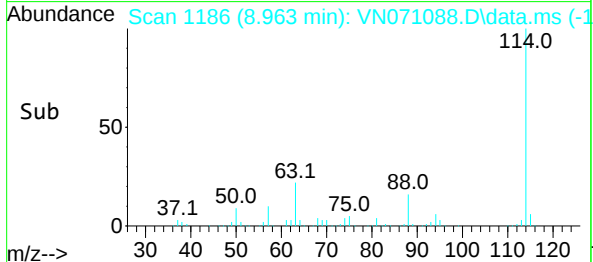
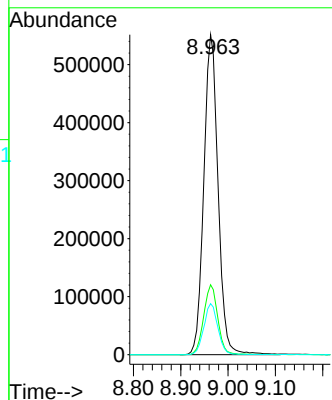
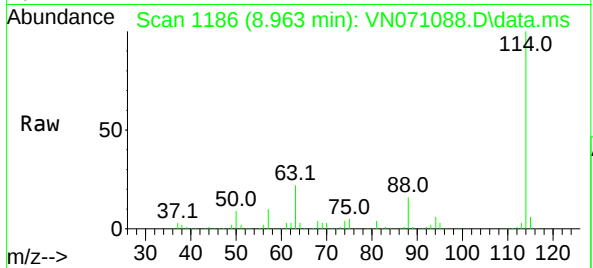




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. 0.000 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

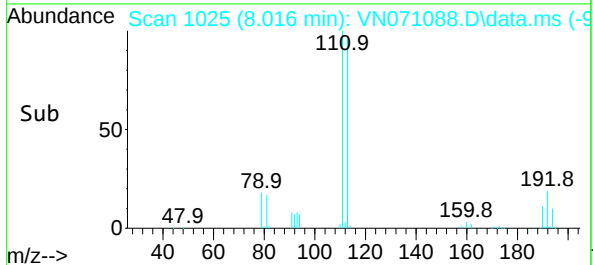
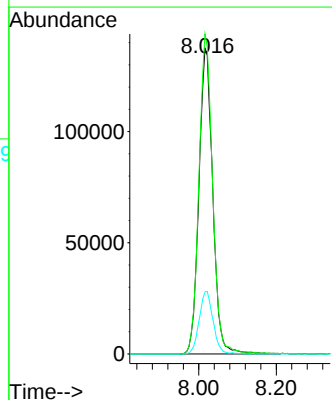
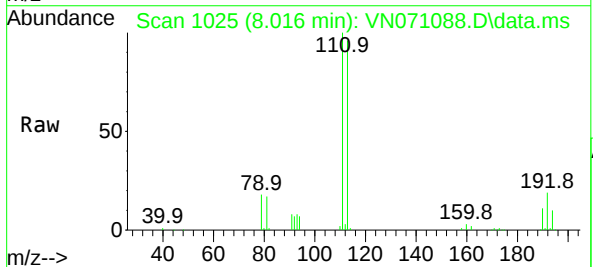
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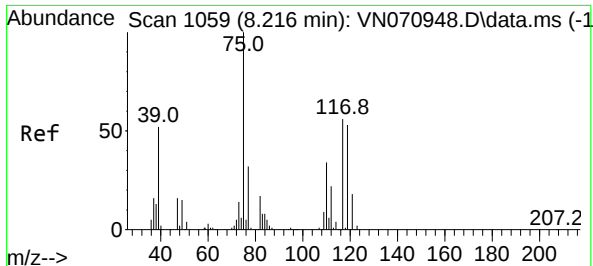
Tgt Ion:114 Resp: 1152885
Ion Ratio Lower Upper
114 100
63 21.9 0.0 37.8
88 16.0 0.0 27.4



#35
Dibromofluoromethane
Concen: 49.752 ug/l
RT: 8.016 min Scan# 1025
Delta R.T. 0.000 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

Tgt Ion:113 Resp: 341165
Ion Ratio Lower Upper
113 100
111 103.2 82.2 123.2
192 20.4 16.9 25.3





#36

1,1-Dichloropropene

Concen: 4.835 ug/l

RT: 8.086 min Scan# 1037

Delta R.T. -0.129 min

Lab File: VN071088.D

Acq: 28 Feb 2022 11:41

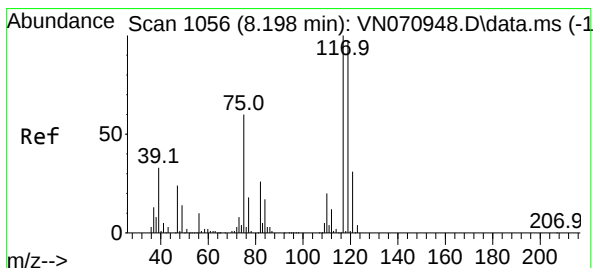
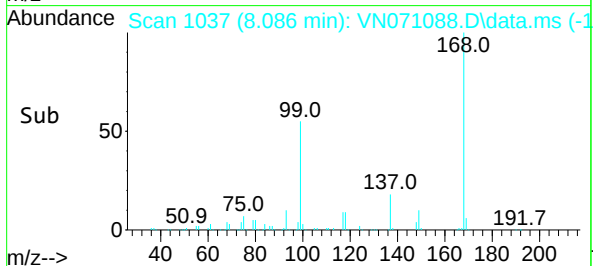
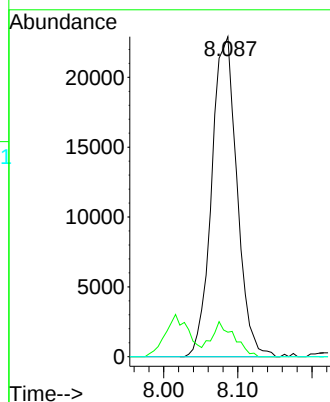
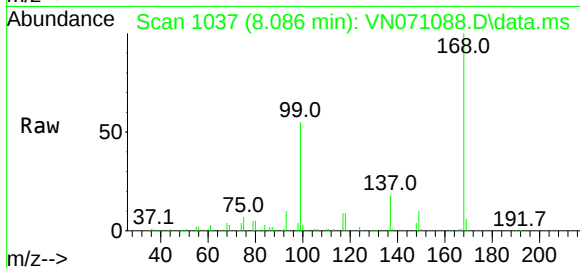
Instrument :

MSVOA_N

ClientSampleId :

VN0228MBL01

Tgt Ion:	75	Resp:	54324
Ion Ratio	Lower	Upper	
75	100		
110	9.8	18.4	55.2#
77	0.0	24.4	36.6#



#38

Carbon Tetrachloride

Concen: 6.351 ug/l

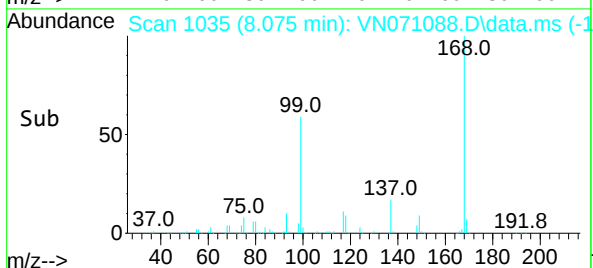
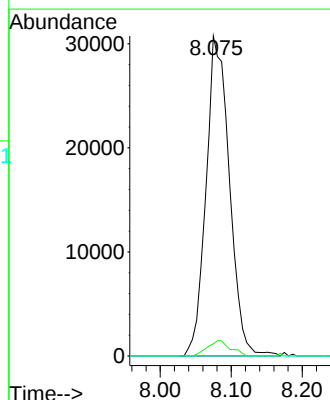
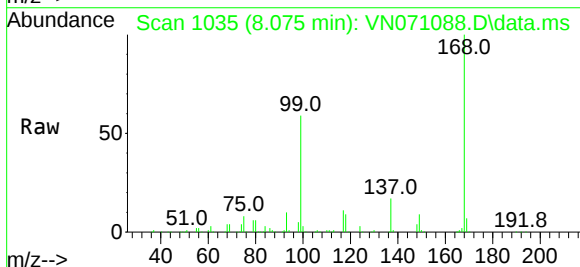
RT: 8.075 min Scan# 1035

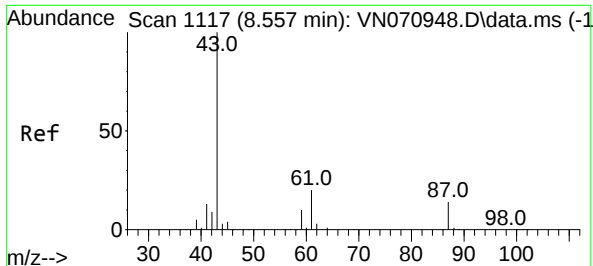
Delta R.T. -0.123 min

Lab File: VN071088.D

Acq: 28 Feb 2022 11:41

Tgt Ion:	117	Resp:	70302
Ion Ratio	Lower	Upper	
117	100		
119	3.8	76.1	114.1#
121	0.0	24.2	36.2#

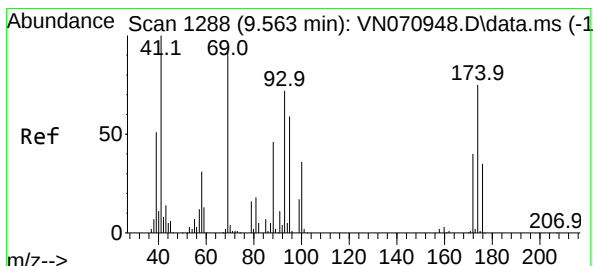
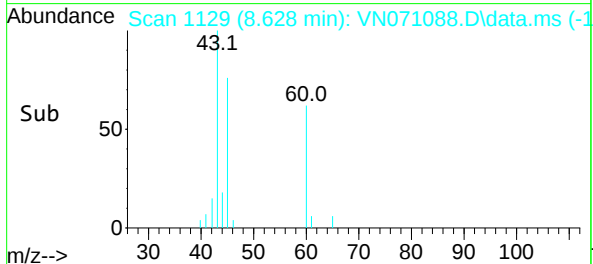
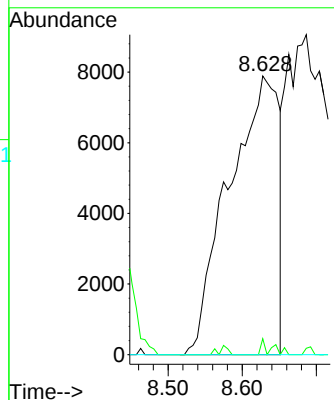
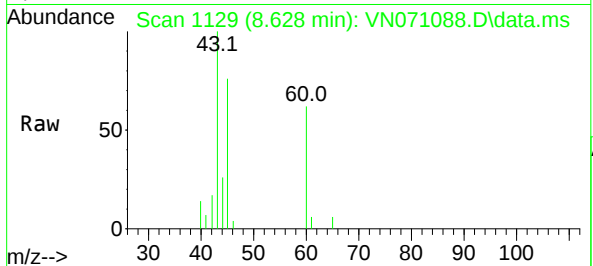




#43
Isopropyl Acetate
Concen: 1.933 ug/l
RT: 8.628 min Scan# 1117
Delta R.T. 0.071 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

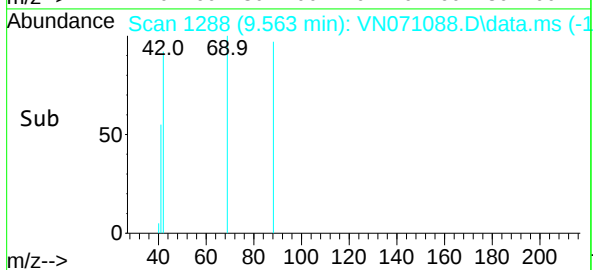
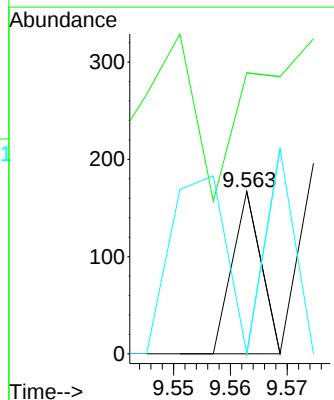
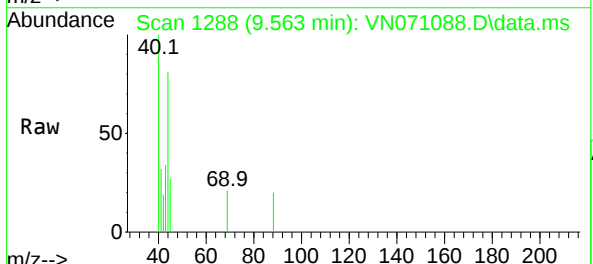
Instrument :
MSVOA_N
ClientSampleId :
VN0228MBL01

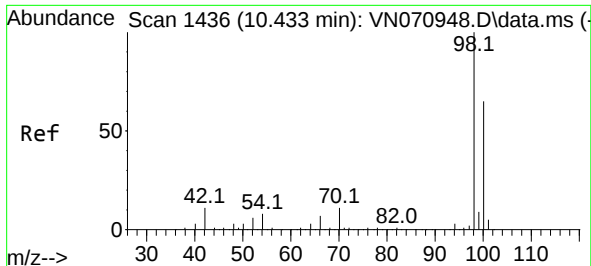
Tgt Ion: 43 Resp: 36719
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 11.2 16.8#



#49
1,4-Dioxane
Concen: 0.370 ug/l
RT: 9.563 min Scan# 1288
Delta R.T. 0.000 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

Tgt Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.2#
58 210.2 50.6 75.8#

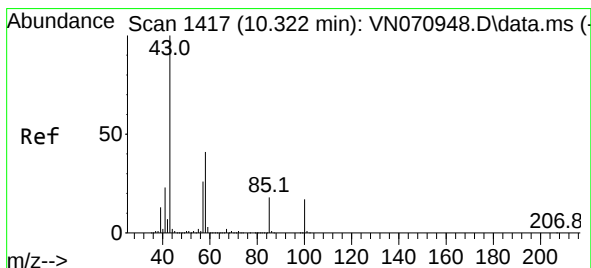
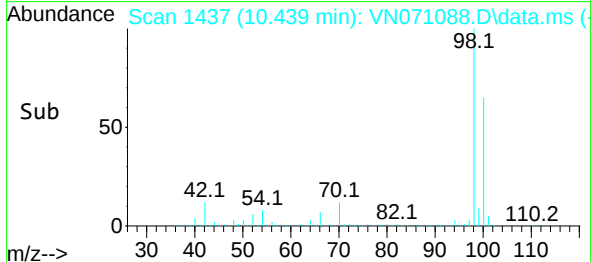
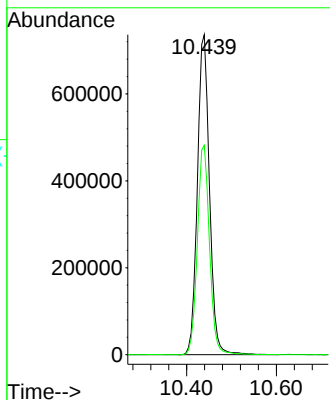
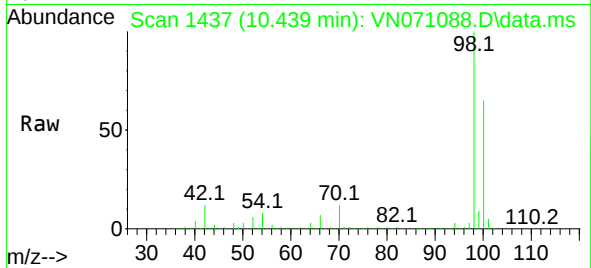




#50
Toluene-d8
Concen: 49.913 ug/l
RT: 10.439 min Scan# 1436
Delta R.T. 0.006 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

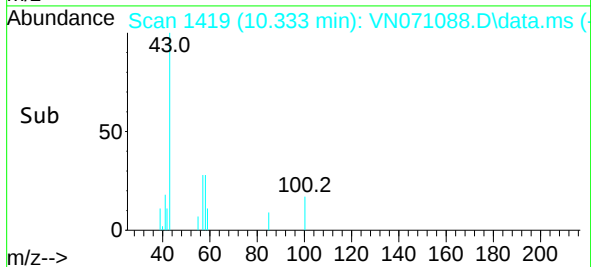
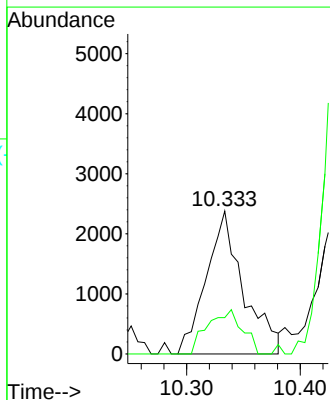
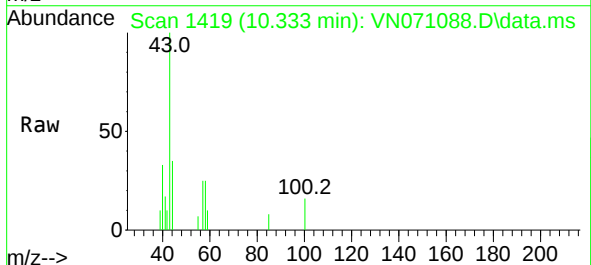
Instrument :
MSVOA_N
ClientSampleId :
VN0228MBL01

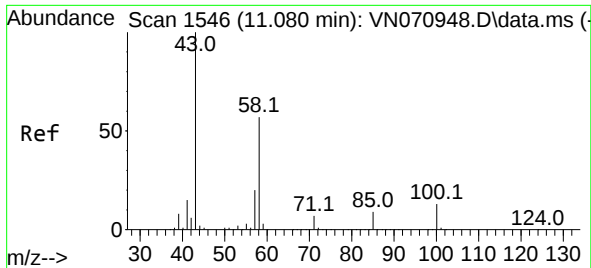
Tgt Ion: 98 Resp: 1374526
Ion Ratio Lower Upper
98 100
100 65.8 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.470 ug/l
RT: 10.333 min Scan# 1419
Delta R.T. 0.012 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

Tgt Ion: 43 Resp: 5428
Ion Ratio Lower Upper
43 100
58 28.8 30.4 45.6#

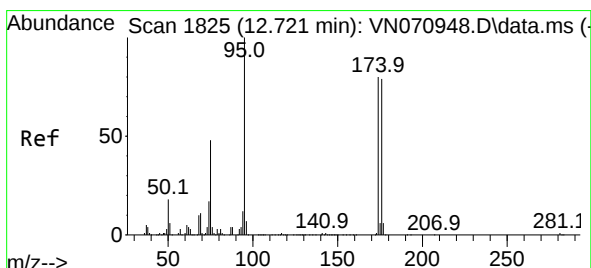
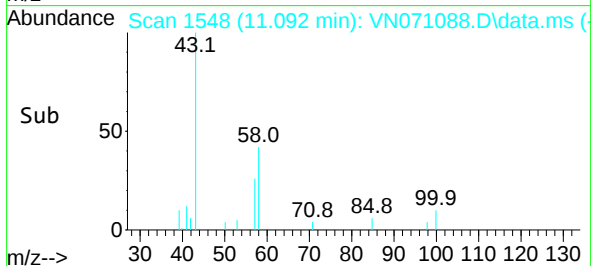
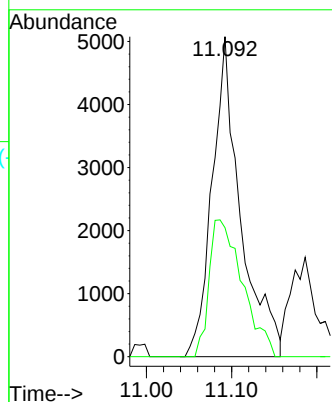
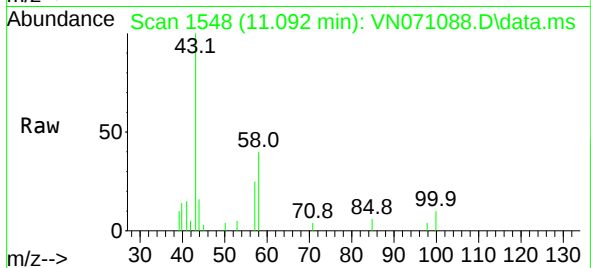




#59
2-Hexanone
Concen: 1.475 ug/l
RT: 11.092 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

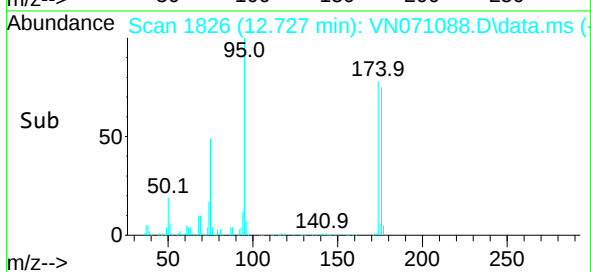
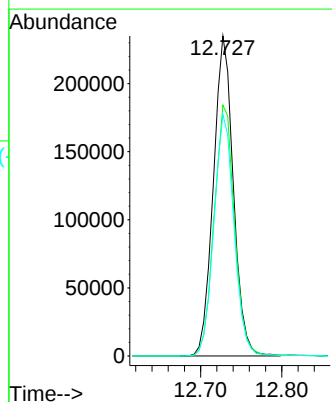
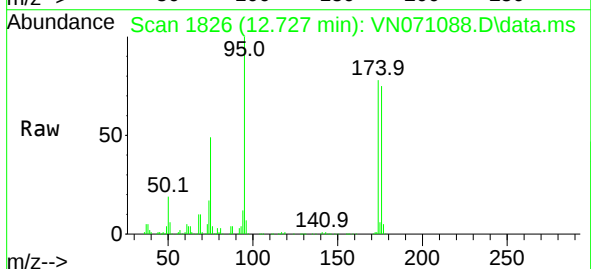
Instrument :
MSVOA_N
ClientSampleId :
VN0228MBL01

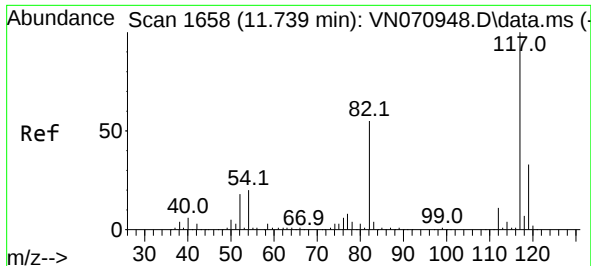
Tgt Ion: 43 Resp: 11718
Ion Ratio Lower Upper
43 100
58 50.3 26.9 80.7



#62
4-Bromofluorobenzene
Concen: 40.756 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

Tgt Ion: 95 Resp: 401182
Ion Ratio Lower Upper
95 100
174 80.5 0.0 187.2
176 76.2 0.0 181.4

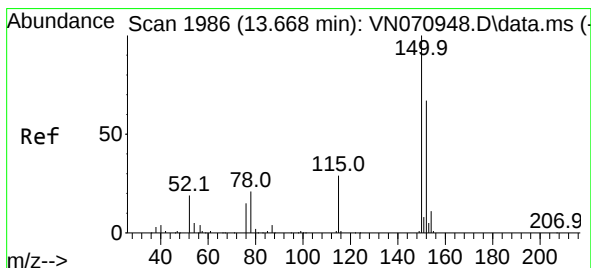
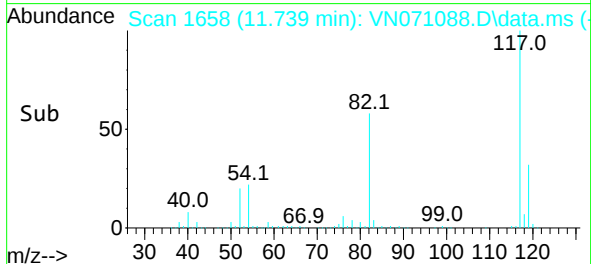
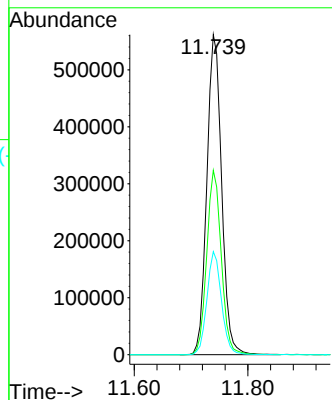
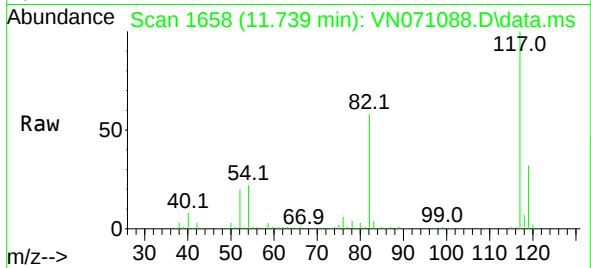




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

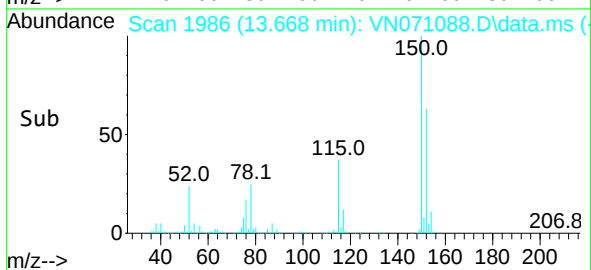
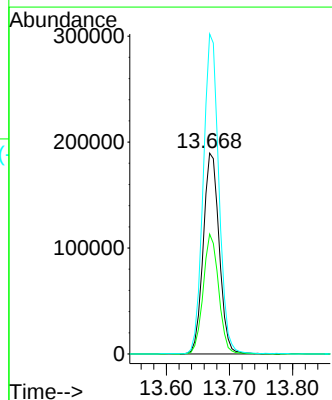
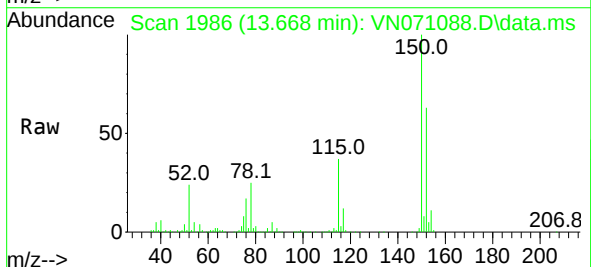
Instrument :
MSVOA_N
ClientSampleId :
VN0228MBL01

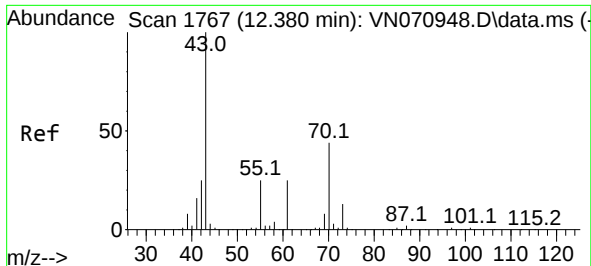
Tgt Ion:117 Resp: 1010053
Ion Ratio Lower Upper
117 100
82 57.6 42.4 63.6
119 32.2 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.668 min Scan# 1986
Delta R.T. 0.000 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

Tgt Ion:152 Resp: 332687
Ion Ratio Lower Upper
152 100
115 57.9 27.5 82.5
150 155.3 0.0 344.4

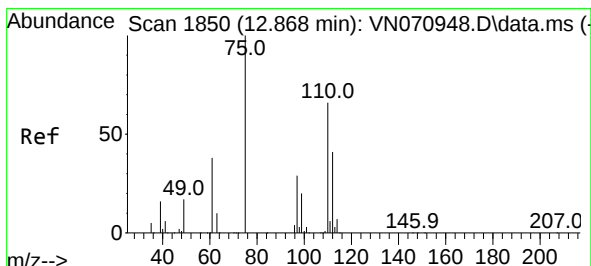
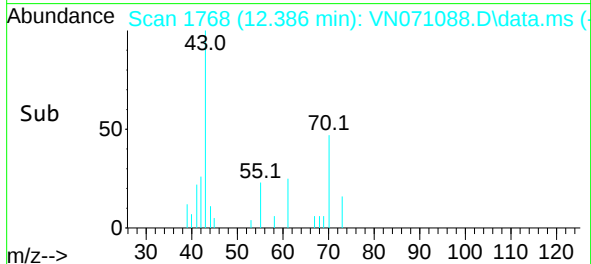
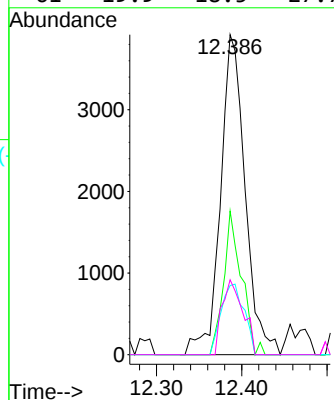
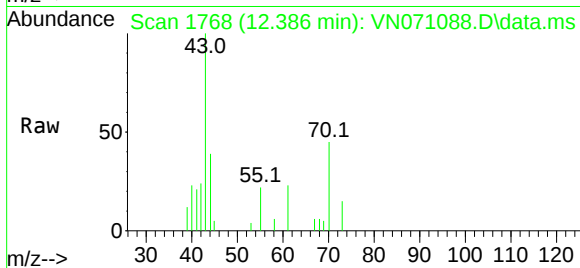




#74
N-amy1 acetate
Concen: 0.920 ug/l
RT: 12.386 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

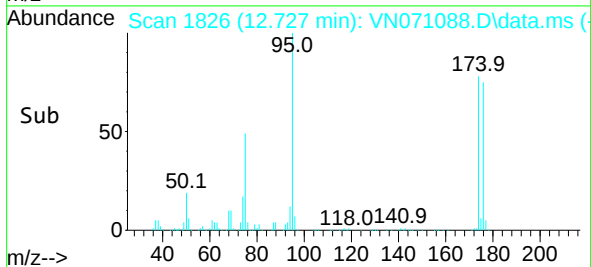
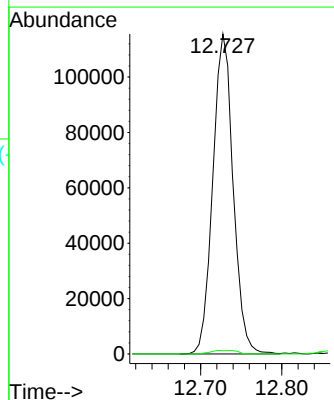
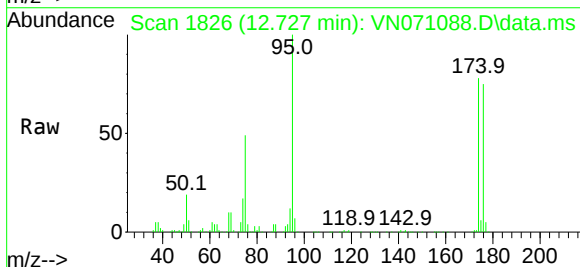
Instrument :
MSVOA_N
ClientSampleId :
VN0228MBL01

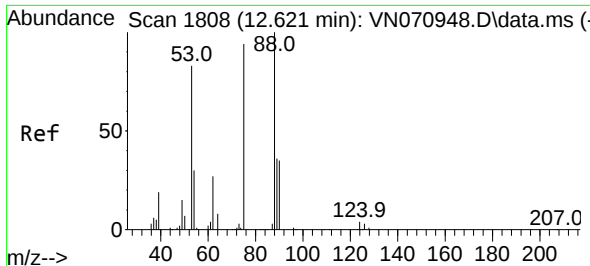
Tgt Ion:	43	Resp:	7873
Ion	Ratio	Lower	Upper
43	100		
70	32.6	33.4	50.0#
55	20.6	19.3	28.9
61	19.9	18.5	27.7



#76
1,2,3-Trichloropropane
Concen: 25.658 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.141 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

Tgt Ion:	75	Resp:	200980
Ion	Ratio	Lower	Upper
75	100		
77	1.4	82.6	247.8#

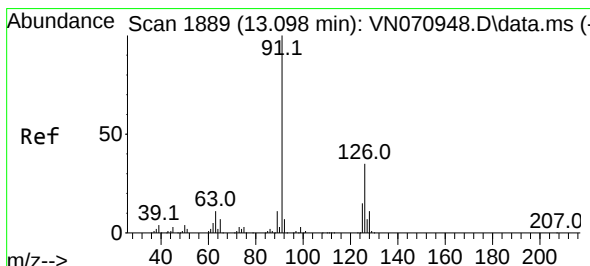
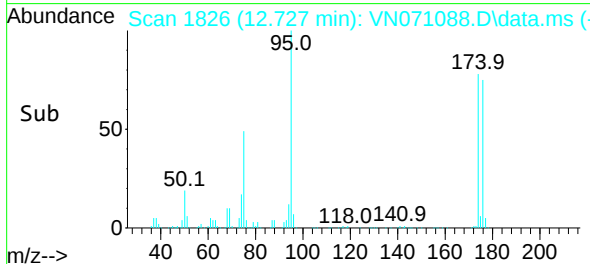
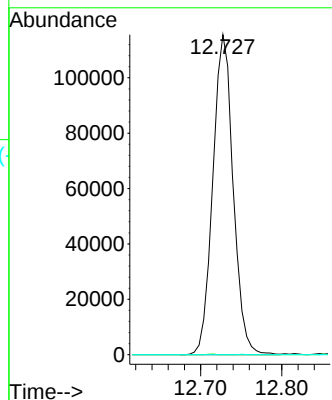
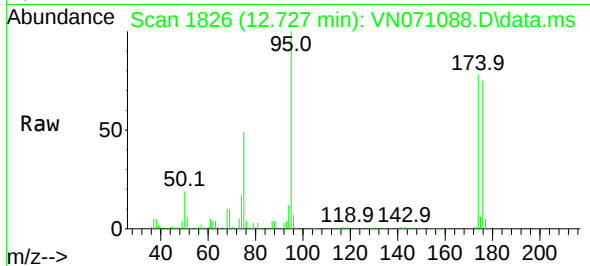




#81
trans-1,4-Dichloro-2-butene
Concen: 83.142 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

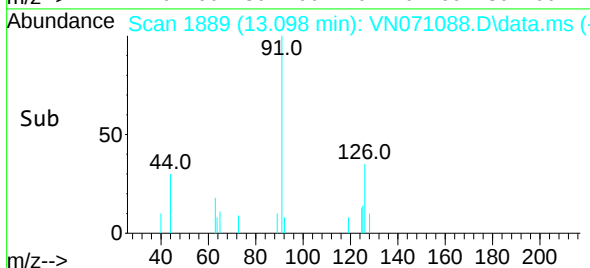
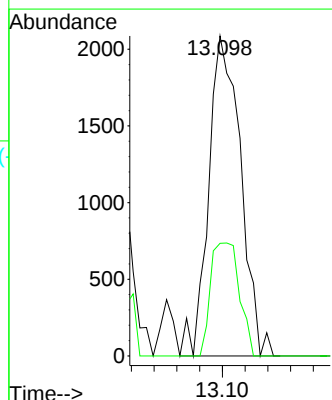
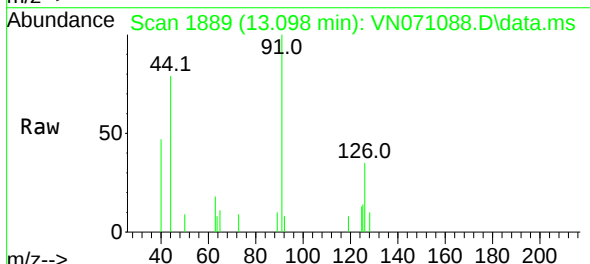
Instrument :
MSVOA_N
ClientSampleId :
VN0228MBL01

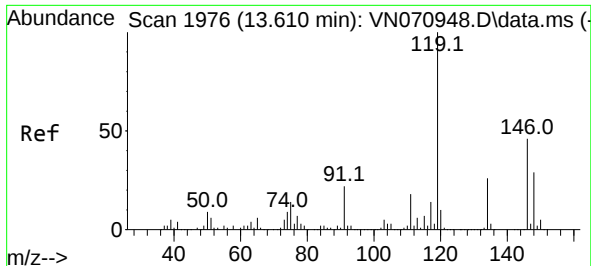
Tgt Ion: 75 Resp: 200980
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#82
4-Chlorotoluene
Concen: 0.230 ug/l
RT: 13.098 min Scan# 1889
Delta R.T. 0.000 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

Tgt Ion: 91 Resp: 4081
Ion Ratio Lower Upper
91 100
126 31.8 18.2 54.6

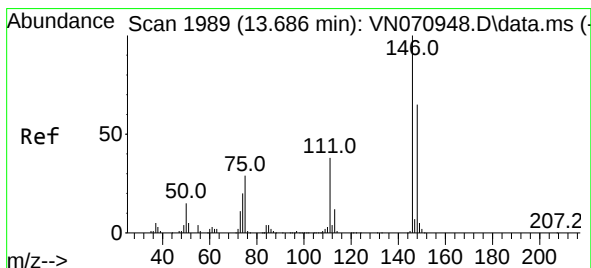
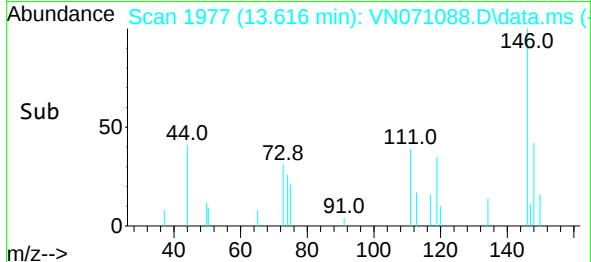
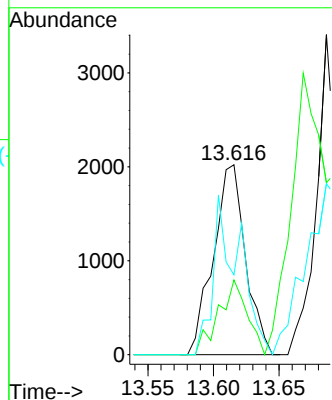
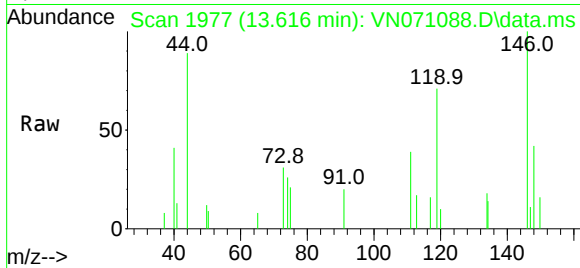




#87
 1,3-Dichlorobenzene
 Concen: 0.298 ug/l
 RT: 13.616 min Scan# 1976
 Delta R.T. 0.006 min
 Lab File: VN071088.D
 Acq: 28 Feb 2022 11:41

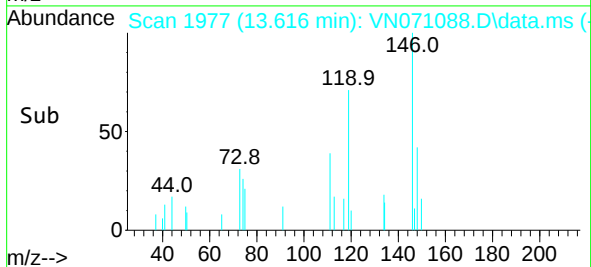
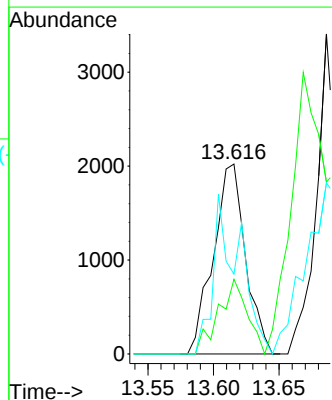
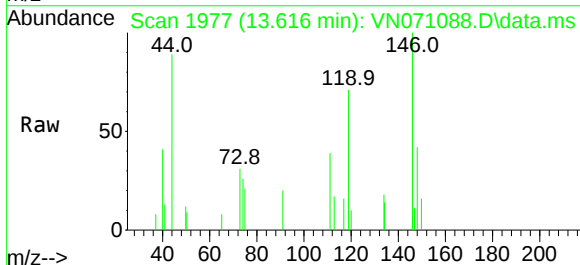
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0228MBL01

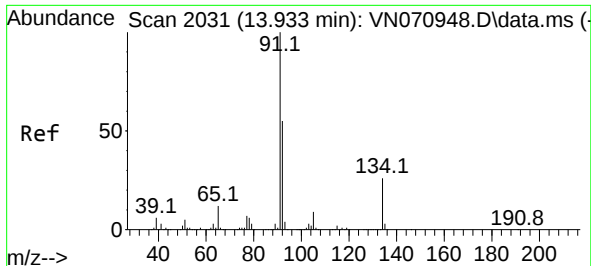
Tgt Ion:146 Resp: 3453
 Ion Ratio Lower Upper
 146 100
 111 35.0 18.6 55.6
 148 69.5 31.6 95.0



#88
 1,4-Dichlorobenzene
 Concen: 0.304 ug/l
 RT: 13.616 min Scan# 1977
 Delta R.T. -0.071 min
 Lab File: VN071088.D
 Acq: 28 Feb 2022 11:41

Tgt Ion:146 Resp: 3453
 Ion Ratio Lower Upper
 146 100
 111 35.0 18.3 54.8
 148 69.5 31.8 95.4

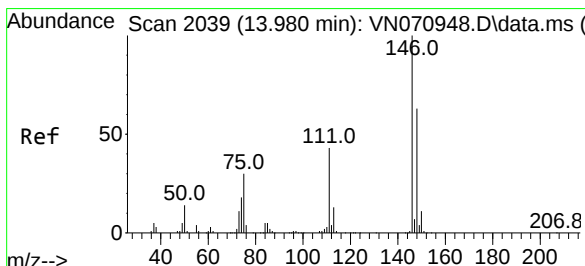
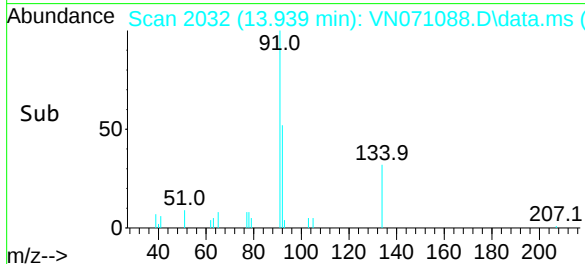
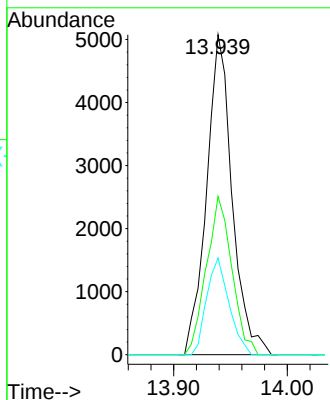
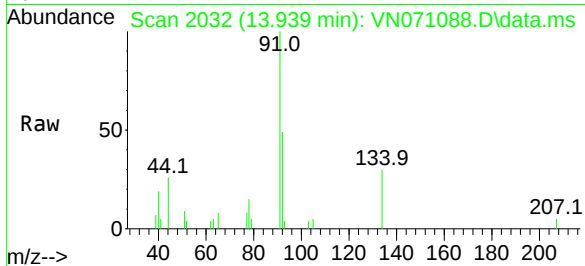




#89
n-Butylbenzene
Concen: 0.438 ug/l
RT: 13.939 min Scan# 2032
Delta R.T. 0.006 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

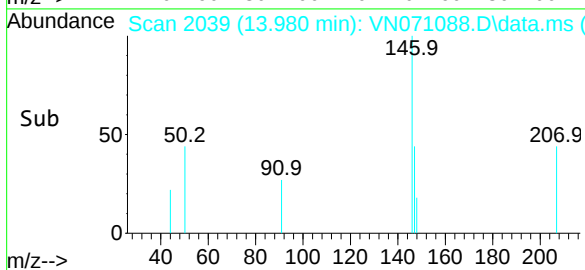
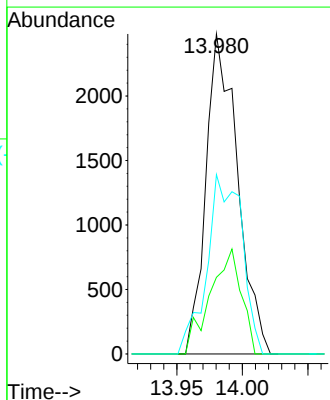
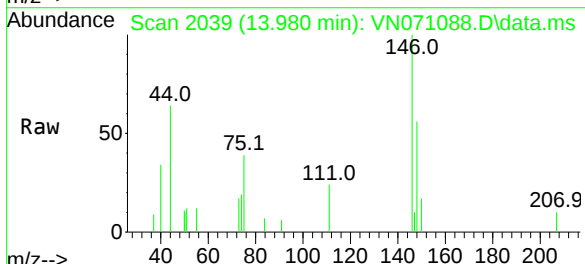
Instrument :
MSVOA_N
ClientSampleId :
VN0228MBL01

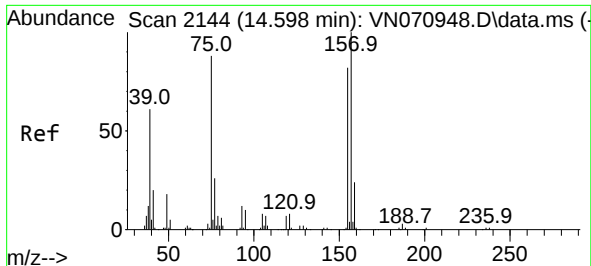
Tgt Ion: 91	Resp:	7946
Ion Ratio	Lower	Upper
91	100	
92	49.3	25.4 76.0
134	26.4	13.6 40.8



#91
1,2-Dichlorobenzene
Concen: 0.381 ug/l
RT: 13.980 min Scan# 2039
Delta R.T. 0.000 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

Tgt Ion: 146	Resp:	4157
Ion Ratio	Lower	Upper
146	100	
111	32.3	19.1 57.3
148	62.0	32.1 96.3





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.713 ug/l

RT: 14.604 min Scan# 2145

Delta R.T. 0.006 min

Lab File: VN071088.D

Acq: 28 Feb 2022 11:41

Instrument :

MSVOA_N

ClientSampleId :

VN0228MBL01

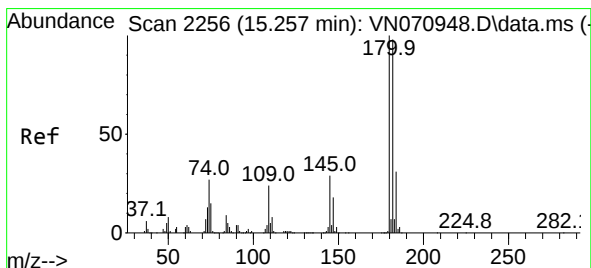
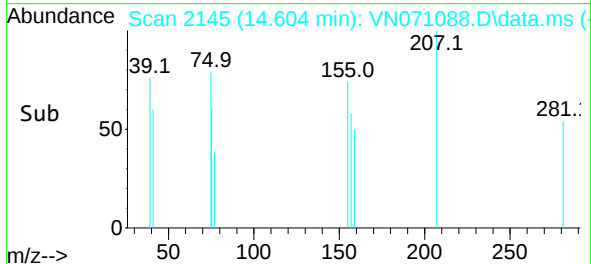
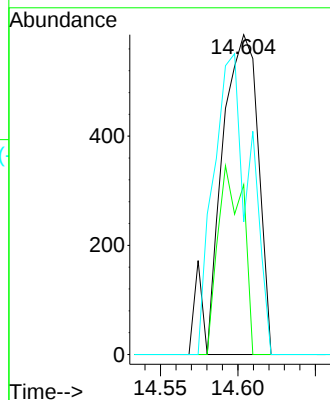
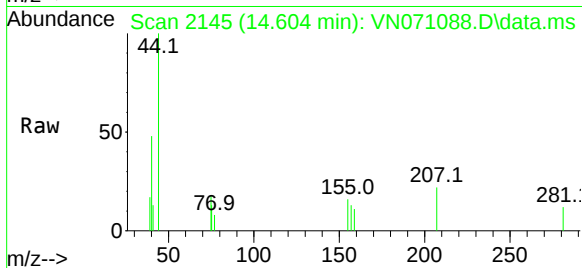
Tgt Ion: 75 Resp: 983

Ion Ratio Lower Upper

75 100

155 39.8 46.9 140.7#

157 90.7 60.6 181.7



#93

1,2,4-Trichlorobenzene

Concen: 2.779 ug/l

RT: 15.257 min Scan# 2256

Delta R.T. -0.000 min

Lab File: VN071088.D

Acq: 28 Feb 2022 11:41

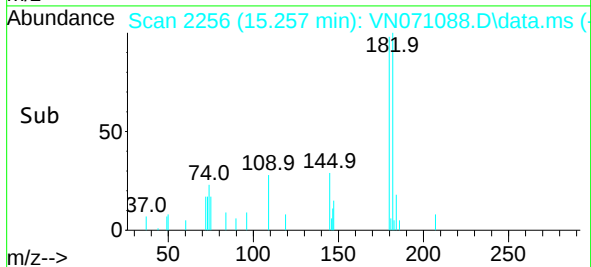
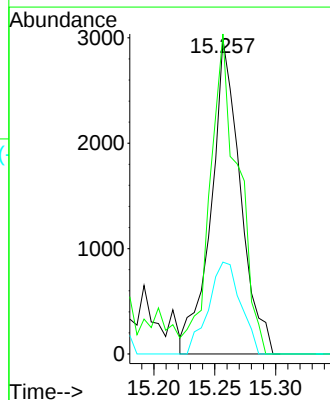
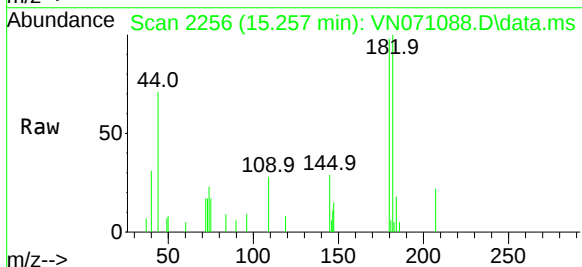
Tgt Ion: 180 Resp: 4976

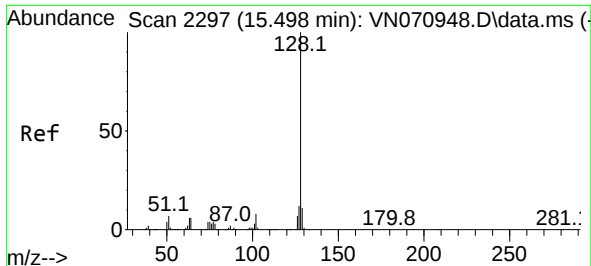
Ion Ratio Lower Upper

180 100

182 98.6 48.3 144.9

145 32.0 14.5 43.5

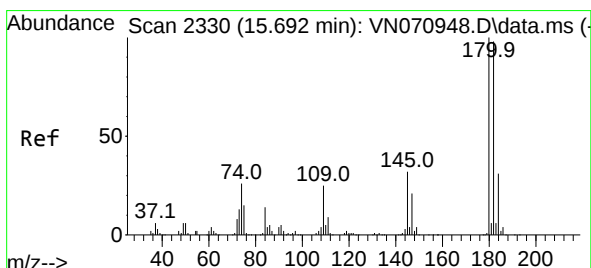
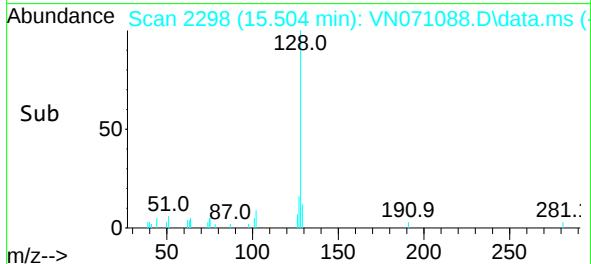
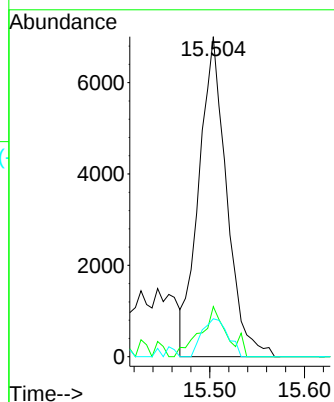
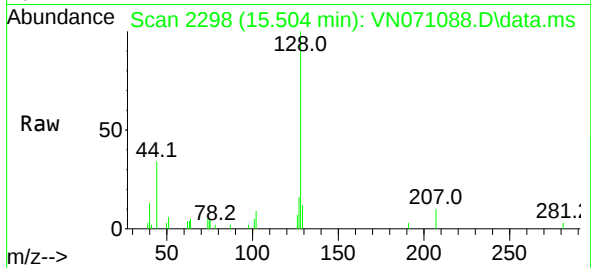




#95
Naphthalene
Concen: 5.857 ug/l
RT: 15.504 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

Instrument :
MSVOA_N
ClientSampleId :
VN0228MBL01

Tgt Ion:128 Resp: 14338
Ion Ratio Lower Upper
128 100
127 14.8 10.5 15.7
129 11.0 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 3.610 ug/l
RT: 15.692 min Scan# 2330
Delta R.T. -0.000 min
Lab File: VN071088.D
Acq: 28 Feb 2022 11:41

Tgt Ion:180 Resp: 6502
Ion Ratio Lower Upper
180 100
182 81.8 47.4 142.2
145 22.0 15.0 45.1

