

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010622\
 Data File : VN070513.D
 Acq On : 6 Jan 2022 12:37
 Operator : JC/MD
 Sample : N1041-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 08 01:37:11 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122721W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 27 18:47:12 2021
 Response via : Initial Calibration

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

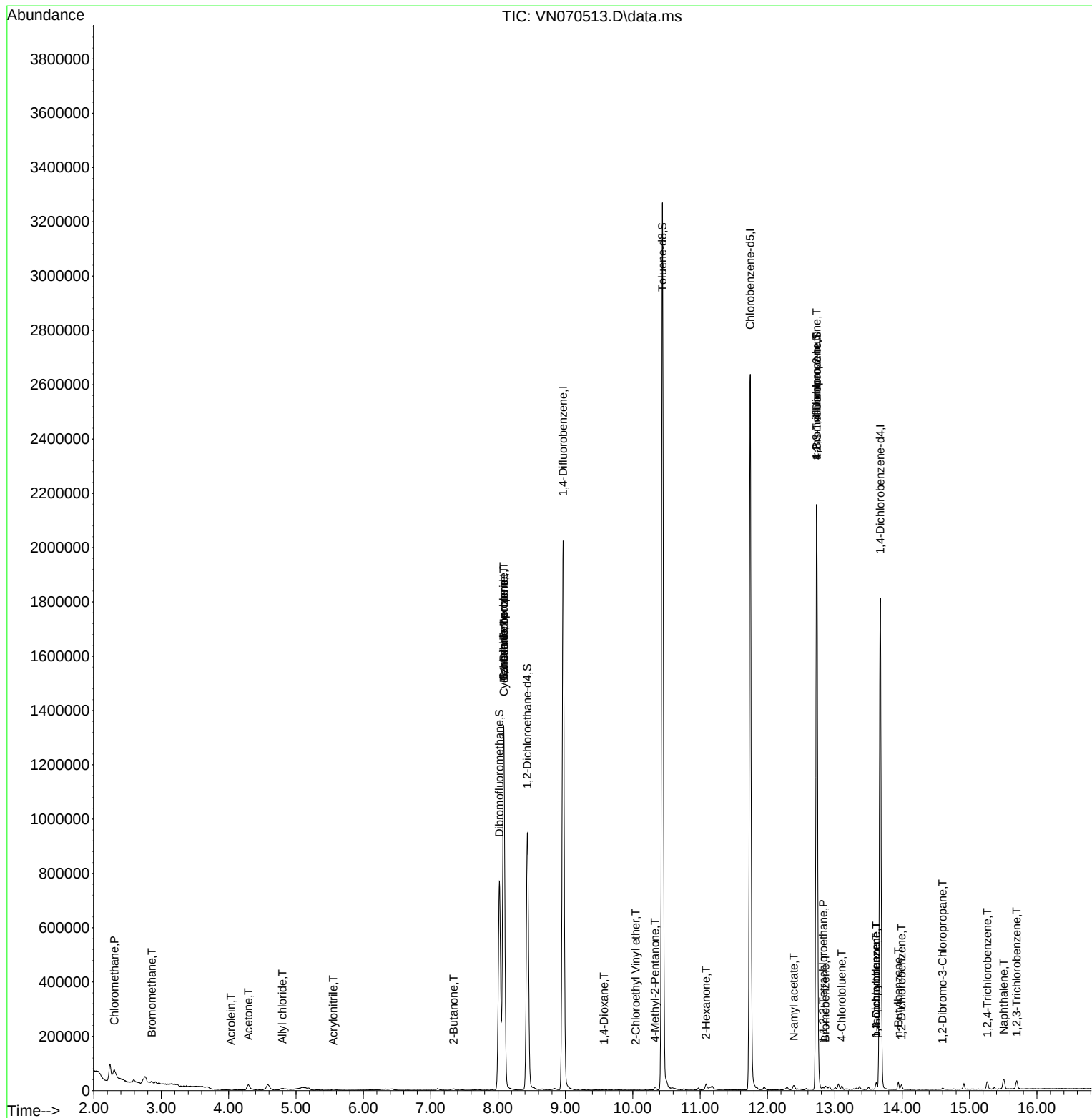
Internal Standards						
1) Pentafluorobenzene	8.085	168	1037237	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.965	114	1730666	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	1528998	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	508186	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	802795	53.830	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 107.660%	
35) Dibromofluoromethane	8.018	113	573817	54.799	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 109.600%	
50) Toluene-d8	10.440	98	2281159	53.327	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 106.660%	
62) 4-Bromofluorobenzene	12.731	95	809499	52.395	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 104.780%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.303	50	5775	0.361	ug/l	93
5) Bromomethane	2.858	94	5878	0.782	ug/l	86
13) Acrolein	4.036	56	1009	0.501	ug/l #	50
14) Allyl chloride	4.797	41	9454	0.395	ug/l #	23
15) Acrylonitrile	5.554	53	3113	0.402	ug/l #	71
16) Acetone	4.293	43	30276	3.127	ug/l	90
25) 2-Butanone	7.340	43	3076	0.252	ug/l	92
31) Cyclohexane	8.088	56	22780	0.968	ug/l #	7
36) 1,1-Dichloropropene	8.083	75	82128	4.741	ug/l #	42
38) Carbon Tetrachloride	8.083	117	99474	6.014	ug/l #	16
49) 1,4-Dioxane	9.574	88	453	1.833	ug/l #	50
51) 4-Methyl-2-Pentanone	10.328	43	9702	0.436	ug/l	89
58) 2-Chloroethyl Vinyl ether	10.043	63	124	18.534	ug/l #	45
59) 2-Hexanone	11.087	43	18551	1.144	ug/l	93
74) N-amyl acetate	12.390	43	11393	0.574	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	12.827	83	2326	0.581	ug/l #	61
76) 1,2,3-Trichloropropane	12.731	75	414447	28.775	ug/l #	1
77) Bromobenzene	12.857	156	2377	0.219	ug/l	86
81) trans-1,4-Dichloro-2-b...	12.731	75	414447	99.640	ug/l #	5
82) 4-Chlorotoluene	13.103	91	7697	0.245	ug/l	91
86) p-Isopropyltoluene	13.613	119	7686	0.216	ug/l	96
87) 1,3-Dichlorobenzene	13.613	146	6225	0.343	ug/l	95
88) 1,4-Dichlorobenzene	13.613	146	6225	0.348	ug/l	94
89) n-Butylbenzene	13.943	91	15484	0.523	ug/l	95
91) 1,2-Dichlorobenzene	13.989	146	6258	0.352	ug/l	85
92) 1,2-Dibromo-3-Chloropr...	14.600	75	834	0.305	ug/l	78
93) 1,2,4-Trichlorobenzene	15.265	180	10453	1.248	ug/l	94
95) Naphthalene	15.507	128	38354	3.394	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.700	180	11910	2.288	ug/l	99

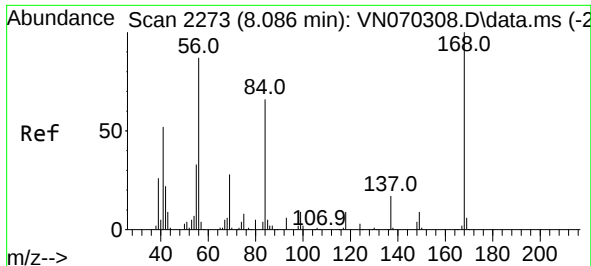
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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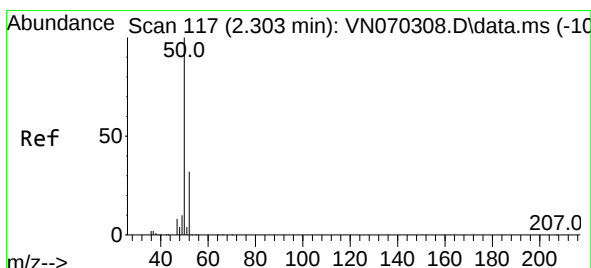
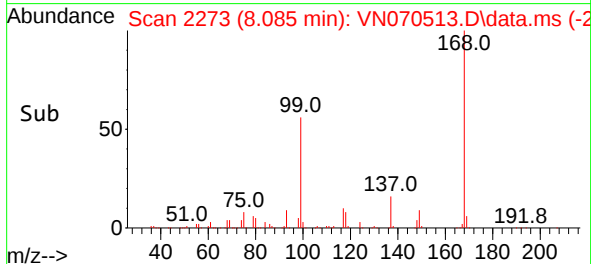
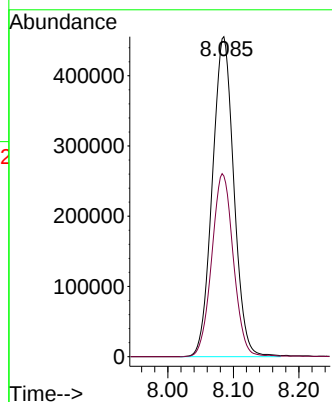
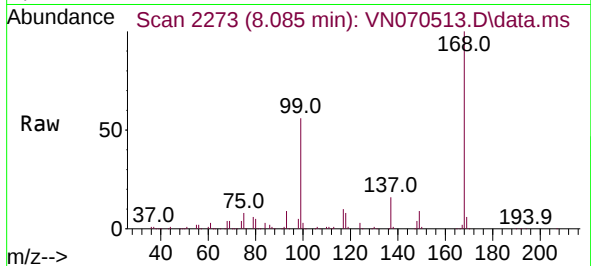




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.085 min Scan# 21
Delta R.T. -0.001 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

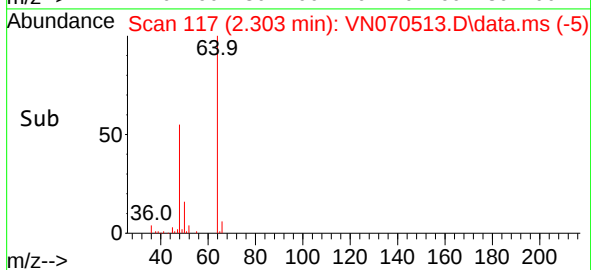
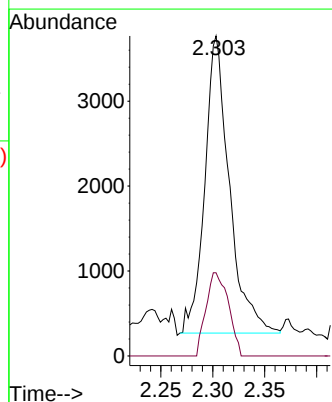
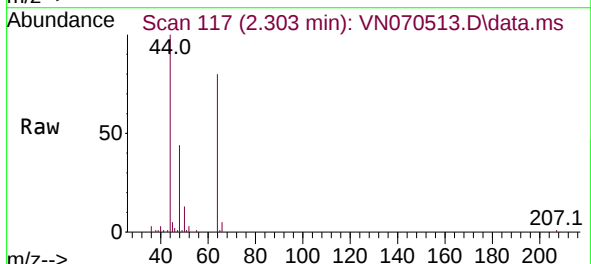
Instrument :
MSVOA_N
ClientSampleId :

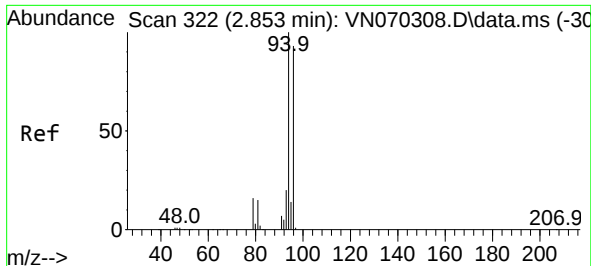
Tgt Ion:168 Resp: 1037237
Ion Ratio Lower Upper
168 100
99 56.5 41.3 61.9



#3
Chloromethane
Concen: 0.361 ug/l
RT: 2.303 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

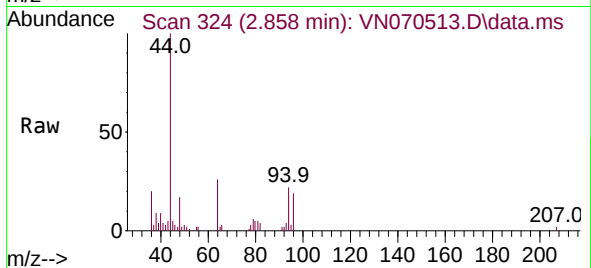
Tgt Ion: 50 Resp: 5775
Ion Ratio Lower Upper
50 100
52 28.0 25.4 38.0



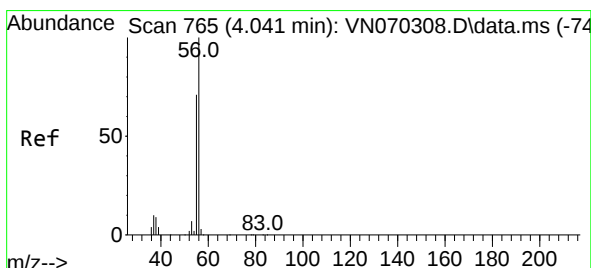
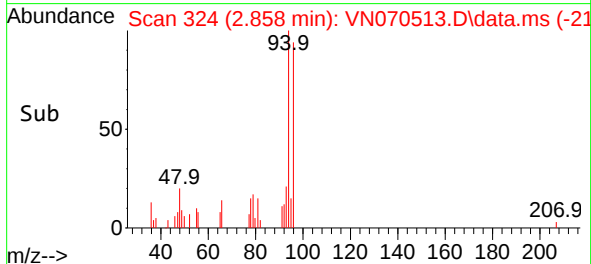
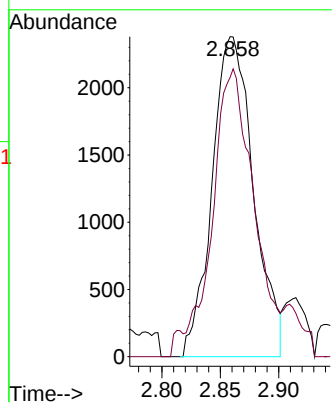


#5
Bromomethane
Concen: 0.782 ug/l
RT: 2.858 min Scan# 31
Delta R.T. 0.005 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

Instrument :
MSVOA_N
ClientSampleId :

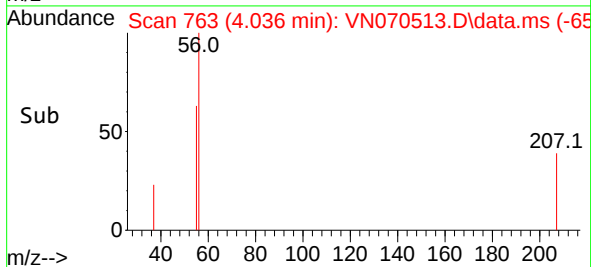
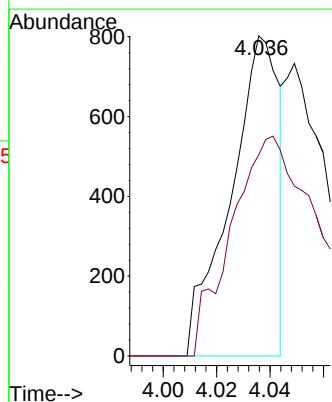
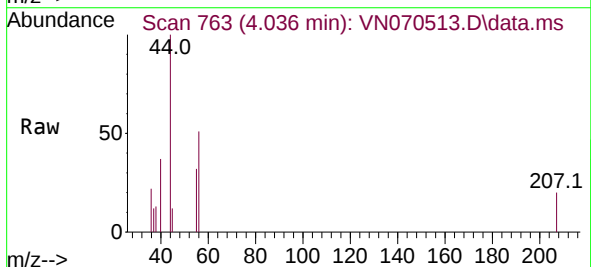


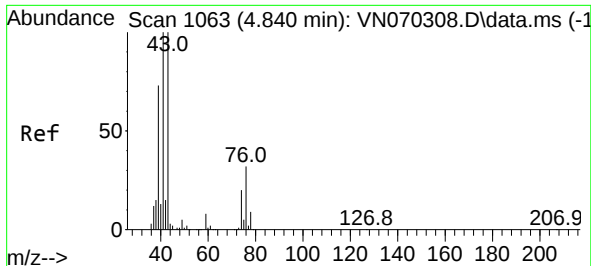
Tgt Ion: 94 Resp: 5878
Ion Ratio Lower Upper
94 100
96 79.2 73.8 110.8



#13
Acrolein
Concen: 0.501 ug/l
RT: 4.036 min Scan# 763
Delta R.T. -0.005 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

Tgt Ion: 56 Resp: 1009
Ion Ratio Lower Upper
56 100
55 112.0 56.6 85.0#





#14

Allyl chloride

Concen: 0.395 ug/l

RT: 4.797 min Scan# 1063

Delta R.T. -0.043 min

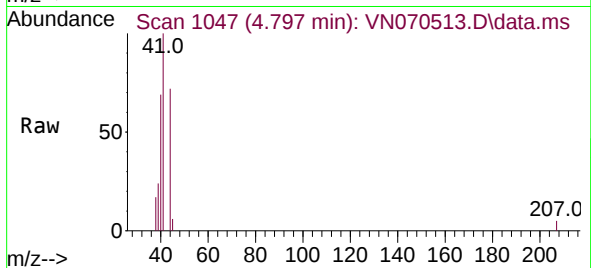
Lab File: VN070513.D

Acq: 6 Jan 2022 12:37

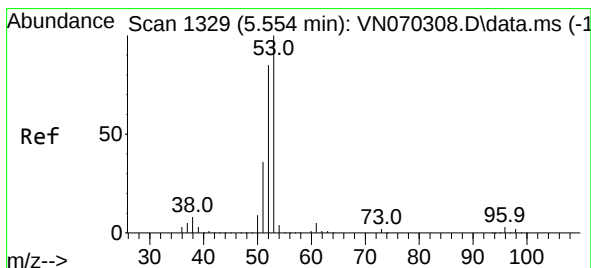
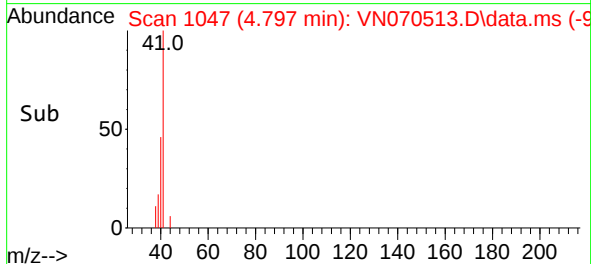
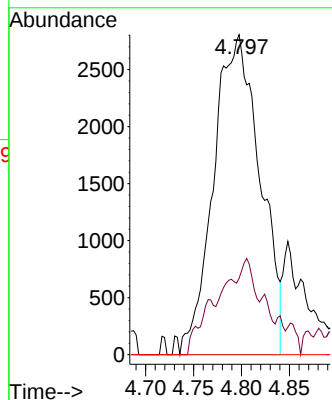
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	41	Resp:	9454
Ion	Ratio	Lower	Upper
41	100		
39	3.7	61.2	91.8#
76	0.0	26.0	39.0#



#15

Acrylonitrile

Concen: 0.402 ug/l

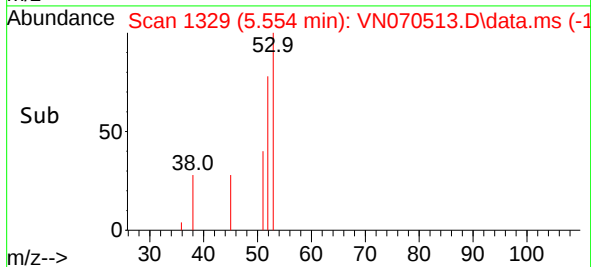
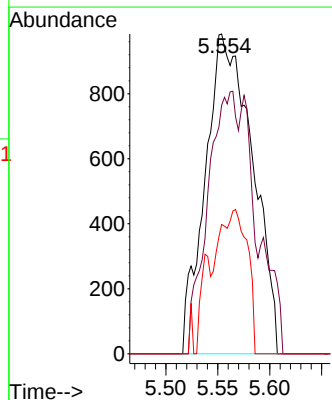
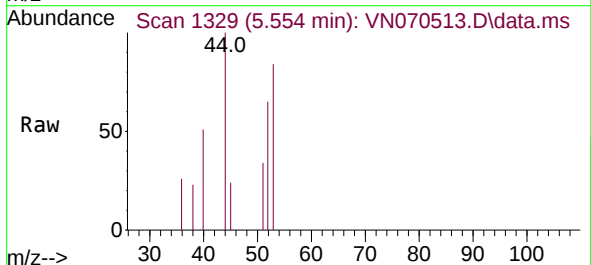
RT: 5.554 min Scan# 1329

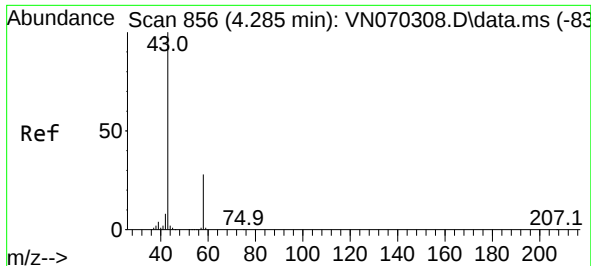
Delta R.T. -0.000 min

Lab File: VN070513.D

Acq: 6 Jan 2022 12:37

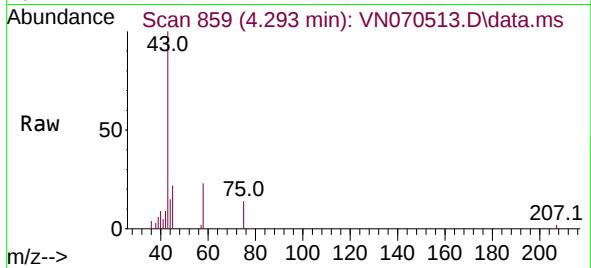
Tgt Ion:	53	Resp:	3113
Ion	Ratio	Lower	Upper
53	100		
52	51.5	66.2	99.2#
51	26.8	29.6	44.4#



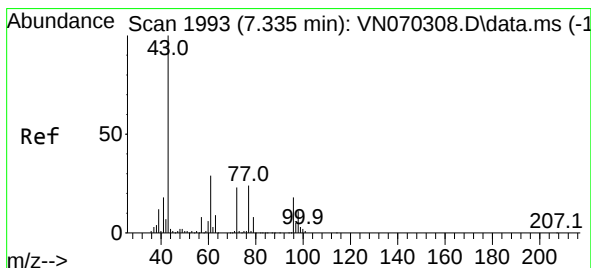
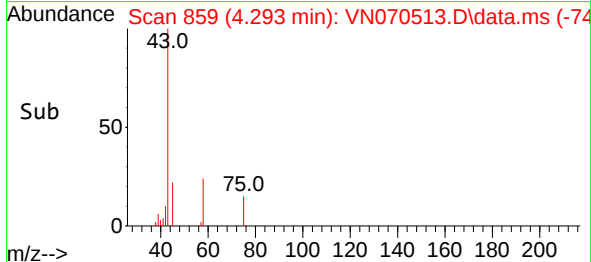
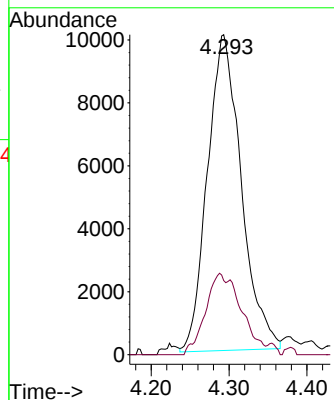


#16
Acetone
Concen: 3.127 ug/l
RT: 4.293 min Scan# 856
Delta R.T. 0.008 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

Instrument :
MSVOA_N
ClientSampleId :

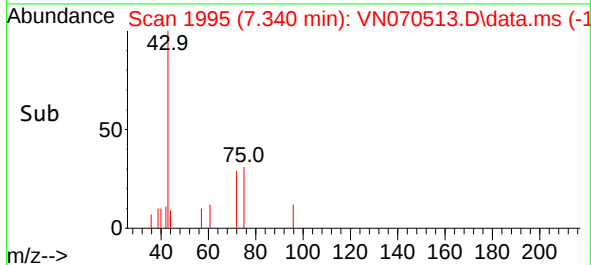
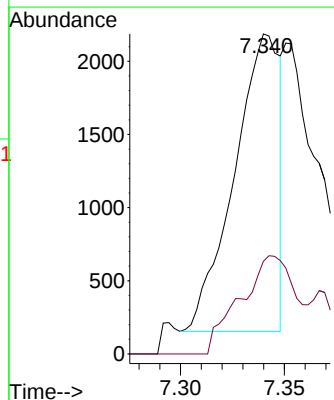
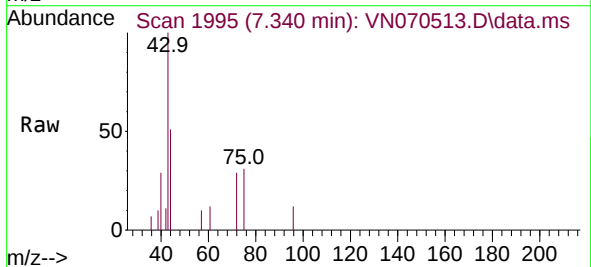


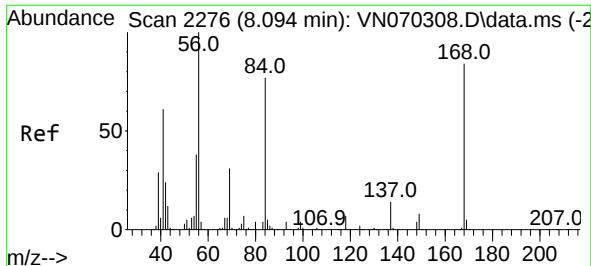
Tgt Ion: 43 Resp: 30276
Ion Ratio Lower Upper
43 100
58 23.6 23.1 34.7



#25
2-Butanone
Concen: 0.252 ug/l
RT: 7.340 min Scan# 1995
Delta R.T. 0.005 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

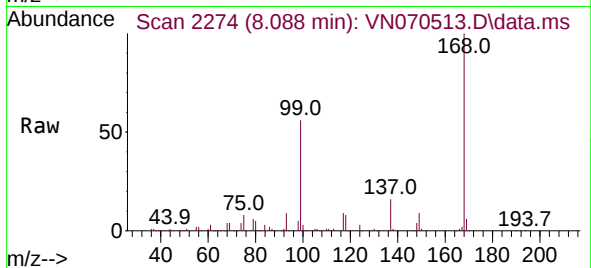
Tgt Ion: 43 Resp: 3076
Ion Ratio Lower Upper
43 100
72 31.1 21.7 32.5



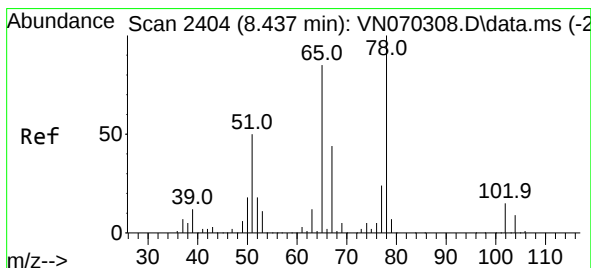
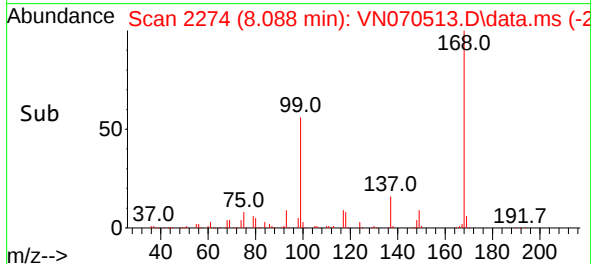
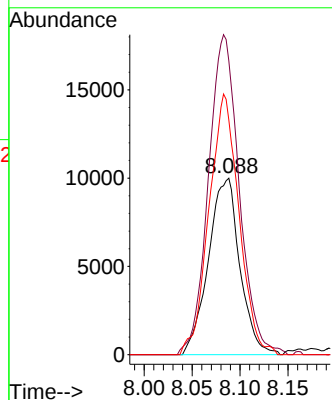


#31
Cyclohexane
Concen: 0.968 ug/l
RT: 8.088 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

Instrument :
MSVOA_N
ClientSampleId :

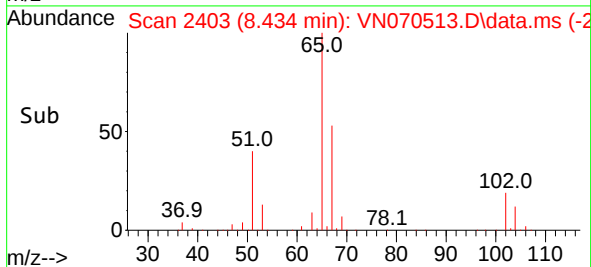
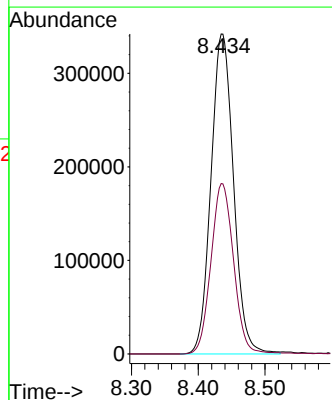
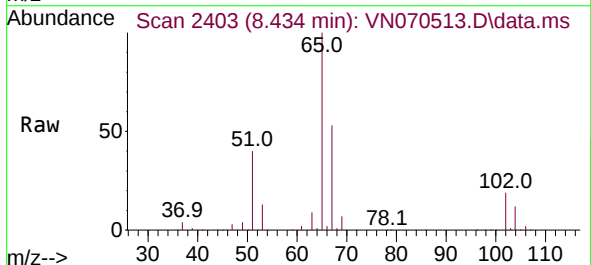


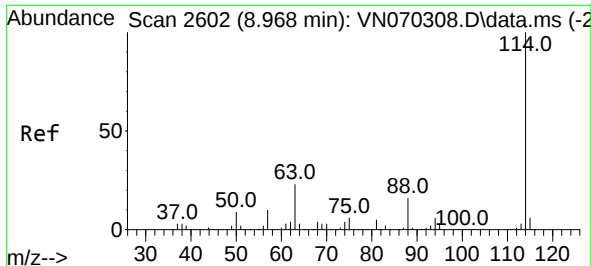
Tgt Ion: 56 Resp: 22780
Ion Ratio Lower Upper
56 100
69 163.7 27.1 40.7#
84 132.9 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 53.830 ug/l
RT: 8.434 min Scan# 2403
Delta R.T. -0.003 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

Tgt Ion: 65 Resp: 802795
Ion Ratio Lower Upper
65 100
67 53.5 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.965 min Scan# 2

Delta R.T. -0.003 min

Lab File: VN070513.D

Acq: 6 Jan 2022 12:37

Instrument :

MSVOA_N

ClientSampleId :

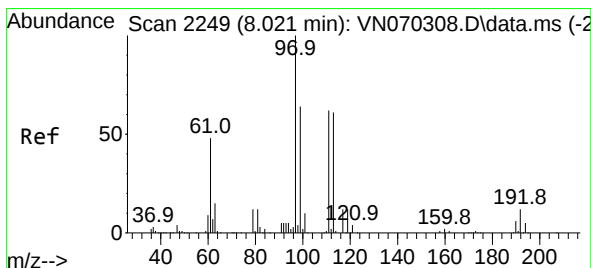
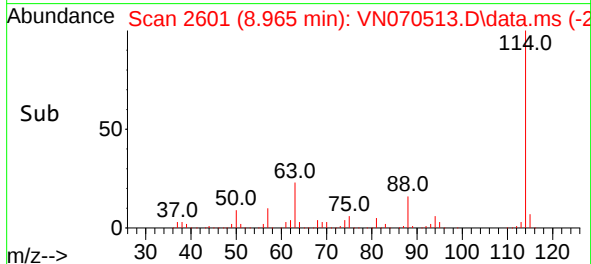
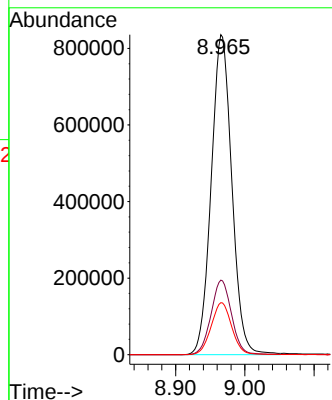
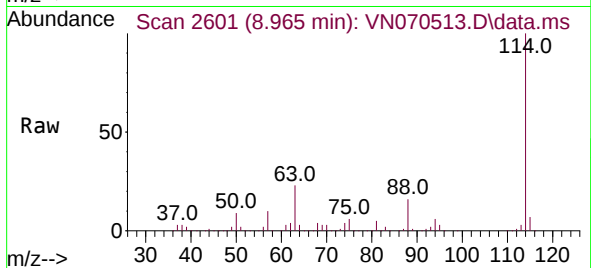
Tgt Ion:114 Resp: 1730666

Ion Ratio Lower Upper

114 100

63 23.3 0.0 37.8

88 16.3 0.0 27.4



#35

Dibromofluoromethane

Concen: 54.799 ug/l

RT: 8.018 min Scan# 2248

Delta R.T. -0.003 min

Lab File: VN070513.D

Acq: 6 Jan 2022 12:37

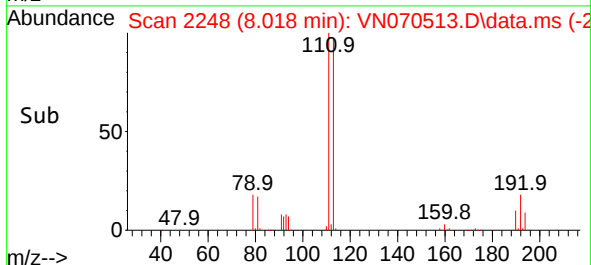
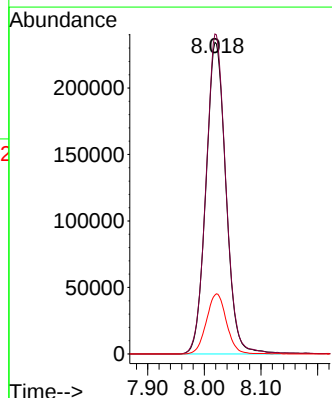
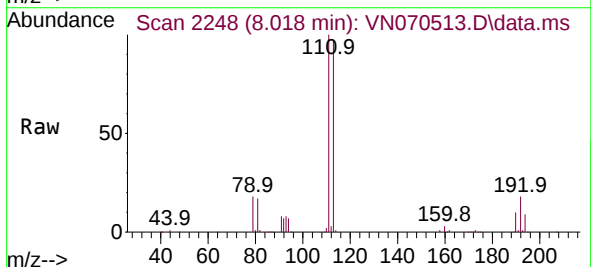
Tgt Ion:113 Resp: 573817

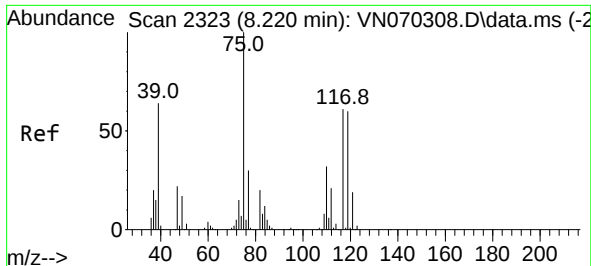
Ion Ratio Lower Upper

113 100

111 101.9 82.2 123.2

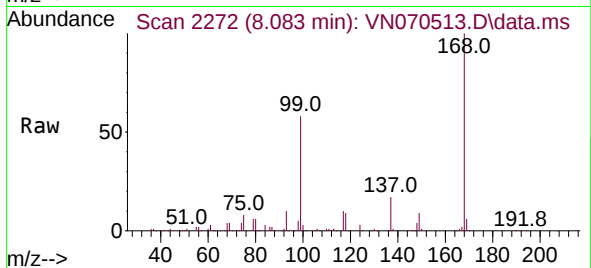
192 19.3 16.9 25.3



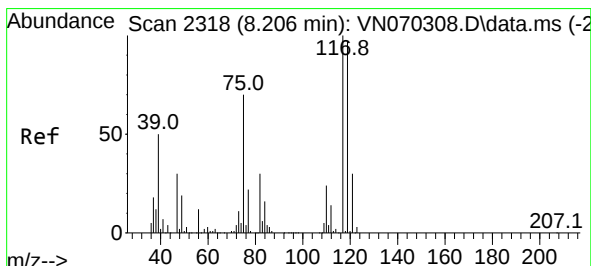
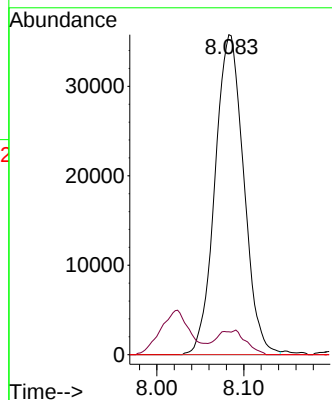
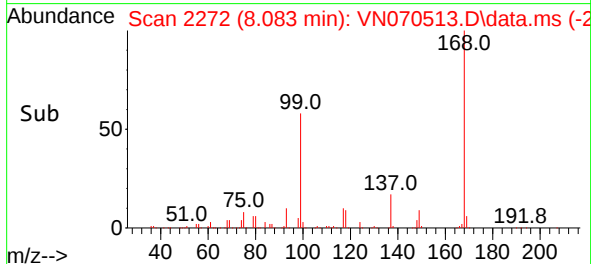


#36
1,1-Dichloropropene
Concen: 4.741 ug/l
RT: 8.083 min Scan# 211
Delta R.T. -0.137 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

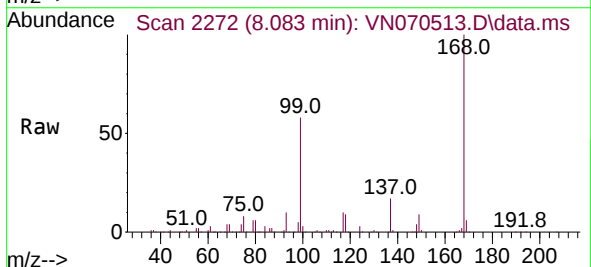
Instrument :
MSVOA_N
ClientSampleId :



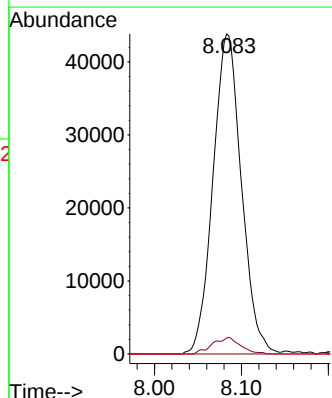
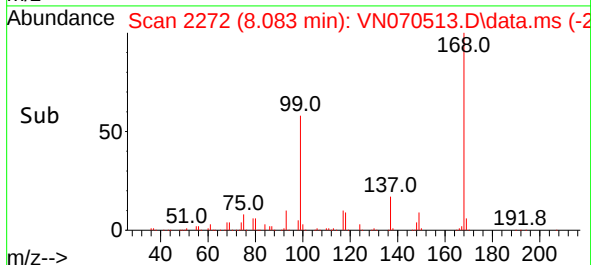
Tgt Ion: 75 Resp: 82128
Ion Ratio Lower Upper
75 100
110 1.6 18.4 55.2#
77 0.0 24.4 36.6#

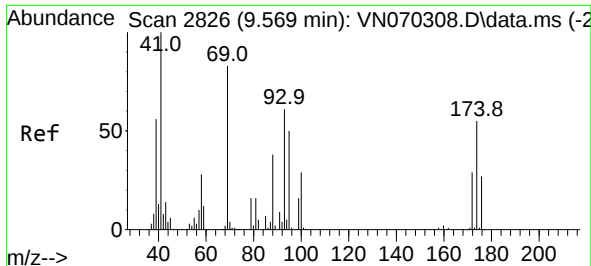


#38
Carbon Tetrachloride
Concen: 6.014 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.123 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37



Tgt Ion: 117 Resp: 99474
Ion Ratio Lower Upper
117 100
119 5.0 76.1 114.1#
121 0.0 24.2 36.2#





#49

1,4-Dioxane

Concen: 1.833 ug/l

RT: 9.574 min Scan# 2826

Delta R.T. 0.005 min

Lab File: VN070513.D

Acq: 6 Jan 2022 12:37

Instrument :

MSVOA_N

ClientSampleId :

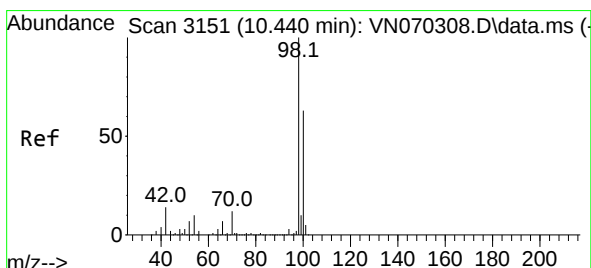
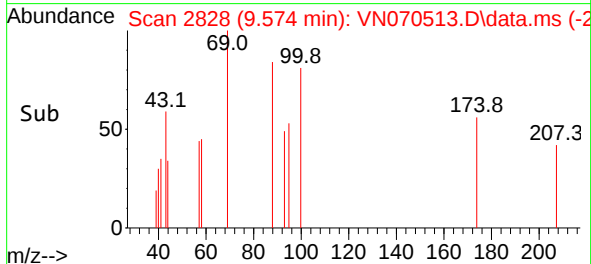
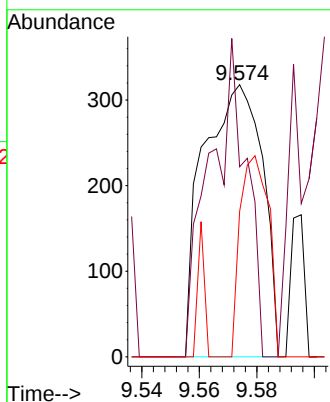
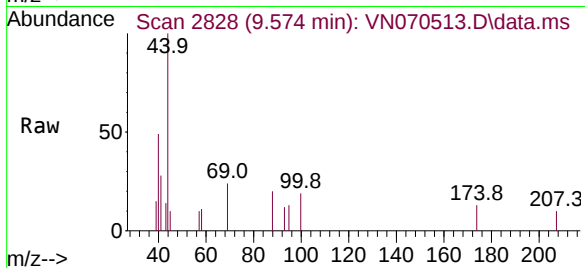
Tgt Ion: 88 Resp: 453

Ion Ratio Lower Upper

88 100

43 72.2 23.4 35.2#

58 35.5 50.6 75.8#



#50

Toluene-d8

Concen: 53.327 ug/l

RT: 10.440 min Scan# 3151

Delta R.T. 0.000 min

Lab File: VN070513.D

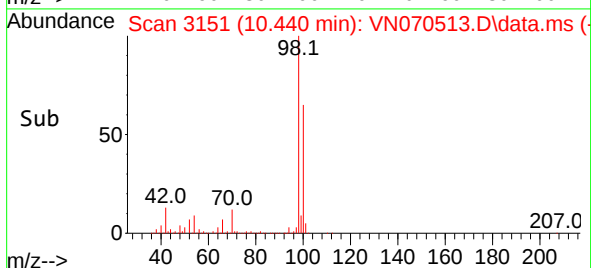
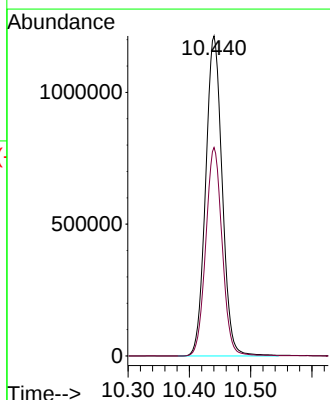
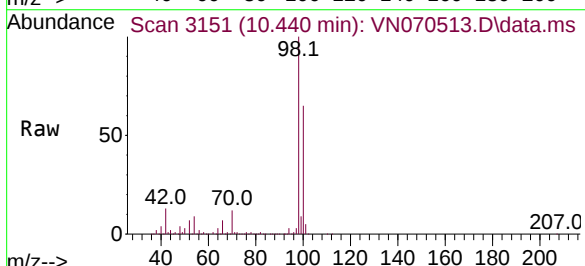
Acq: 6 Jan 2022 12:37

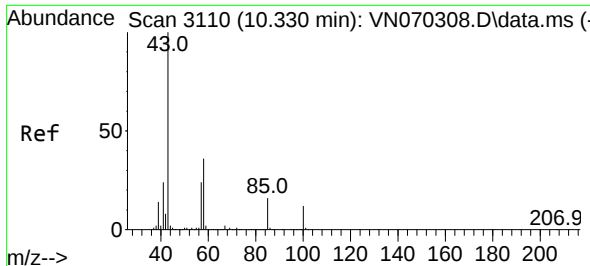
Tgt Ion: 98 Resp: 2281159

Ion Ratio Lower Upper

98 100

100 64.6 50.4 75.6

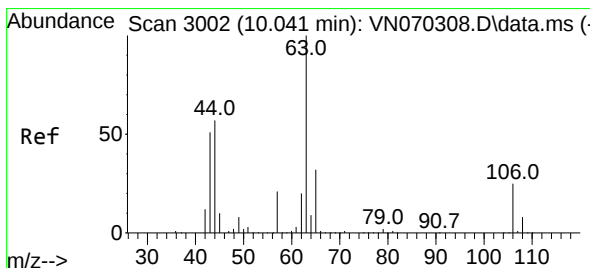
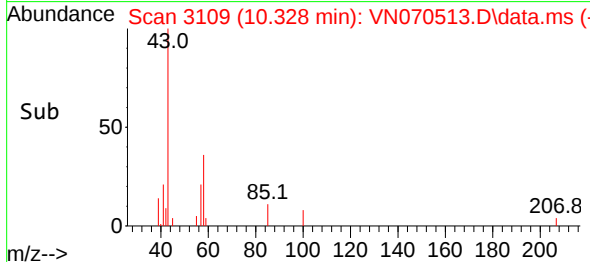
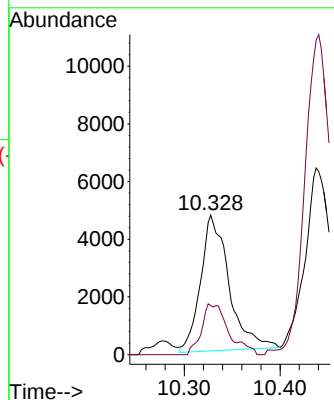
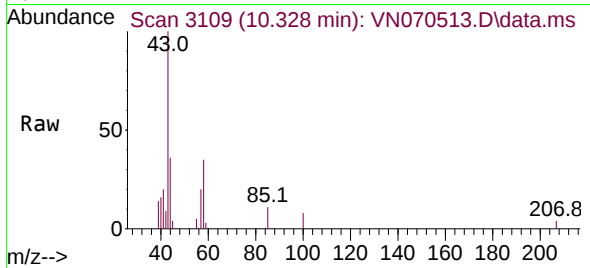




#51
4-Methyl-2-Pentanone
Concen: 0.436 ug/l
RT: 10.328 min Scan# 3110
Delta R.T. -0.002 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

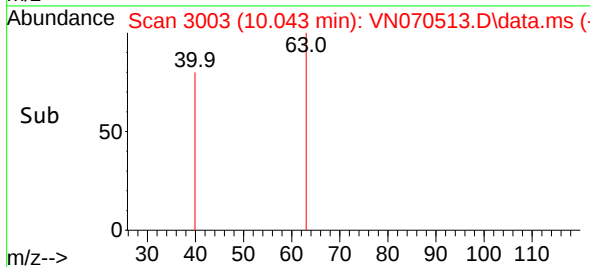
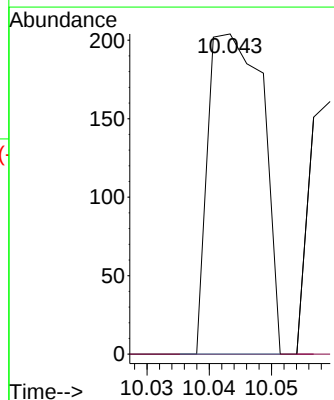
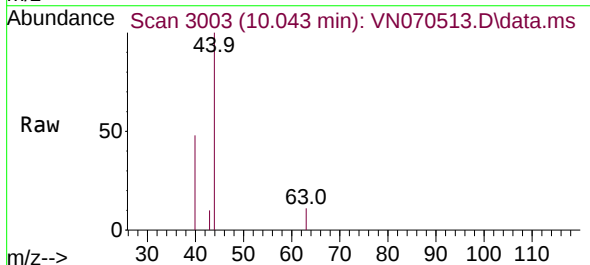
Instrument :
MSVOA_N
ClientSampleId :

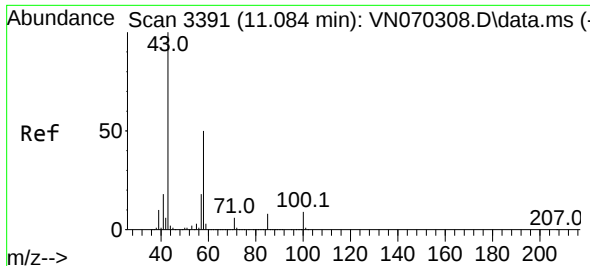
Tgt Ion: 43 Resp: 9702
Ion Ratio Lower Upper
43 100
58 31.5 30.4 45.6



#58
2-Chloroethyl Vinyl ether
Concen: 18.534 ug/l
RT: 10.043 min Scan# 3003
Delta R.T. 0.002 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

Tgt Ion: 63 Resp: 124
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

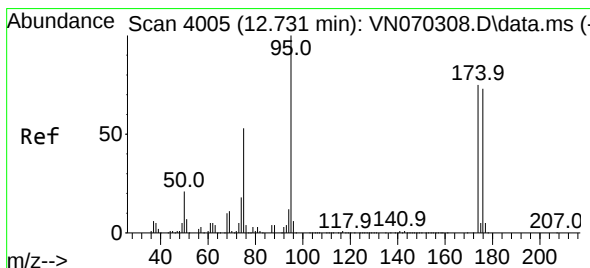
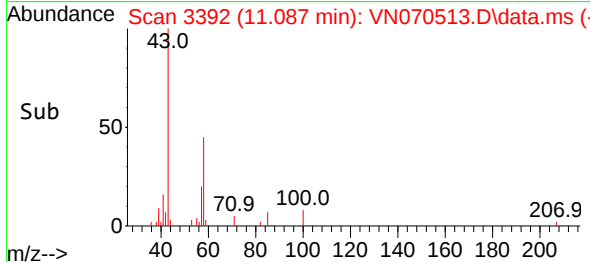
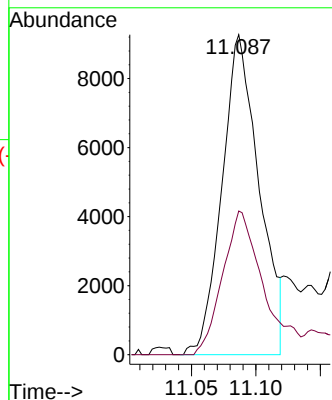
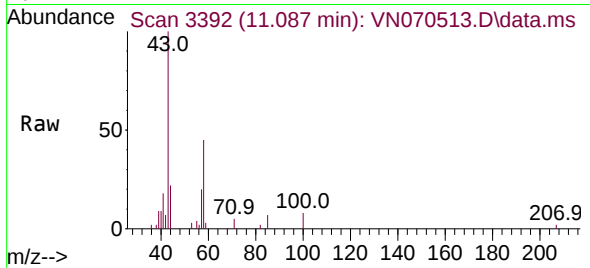




#59
2-Hexanone
Concen: 1.144 ug/l
RT: 11.087 min Scan# 31
Delta R.T. 0.003 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

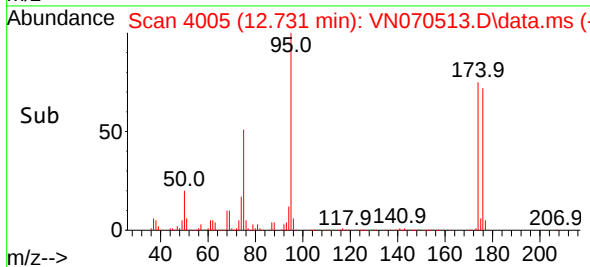
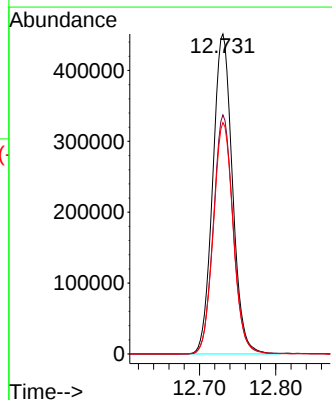
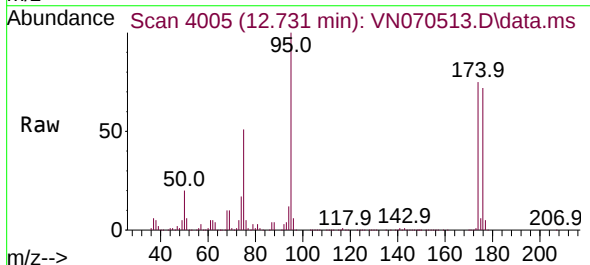
Instrument :
MSVOA_N
ClientSampleId :

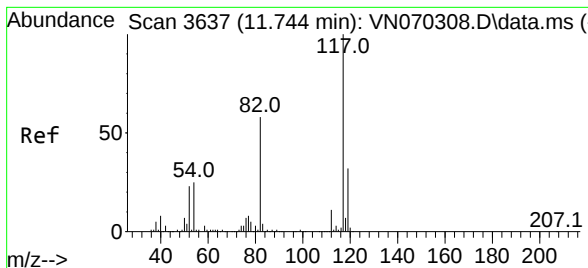
Tgt Ion: 43 Resp: 18551
Ion Ratio Lower Upper
43 100
58 49.1 26.9 80.7



#62
4-Bromofluorobenzene
Concen: 52.395 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

Tgt Ion: 95 Resp: 809499
Ion Ratio Lower Upper
95 100
174 74.8 0.0 187.2
176 73.0 0.0 181.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.744 min Scan# 3

Delta R.T. -0.000 min

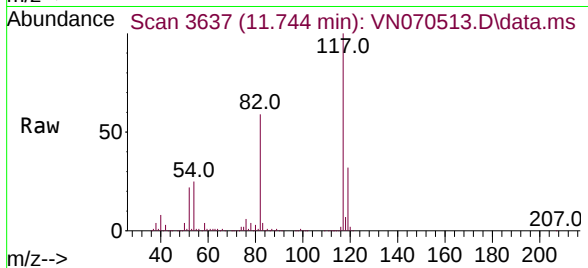
Lab File: VN070513.D

Acq: 6 Jan 2022 12:37

Instrument :

MSVOA_N

ClientSampleId :



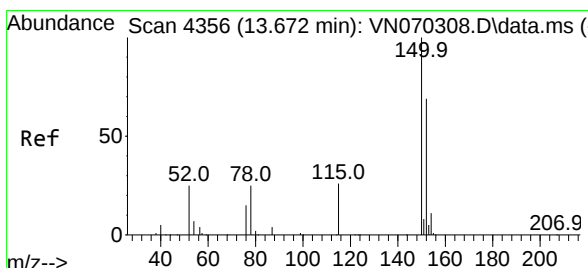
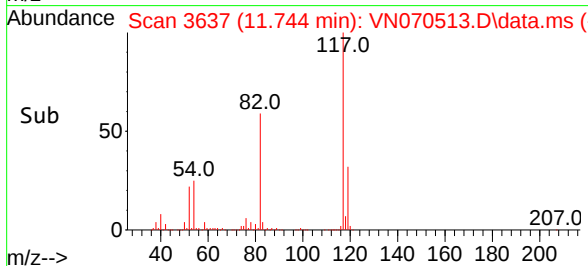
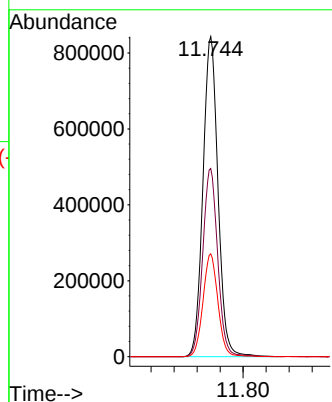
Tgt Ion:117 Resp: 1528998

Ion Ratio Lower Upper

117 100

82 58.8 42.4 63.6

119 32.1 25.4 38.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.675 min Scan# 4357

Delta R.T. 0.003 min

Lab File: VN070513.D

Acq: 6 Jan 2022 12:37

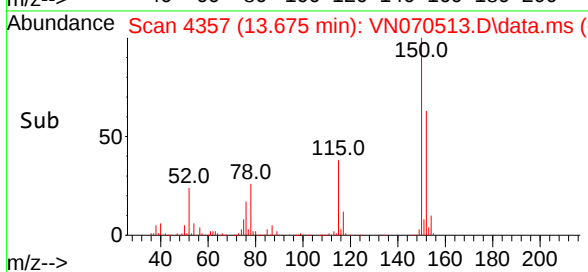
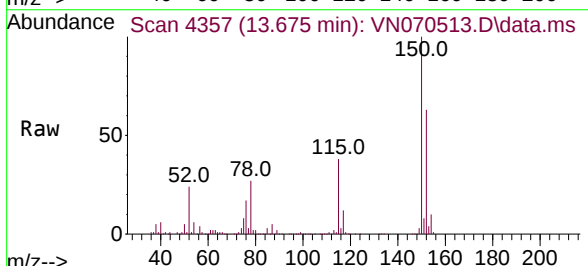
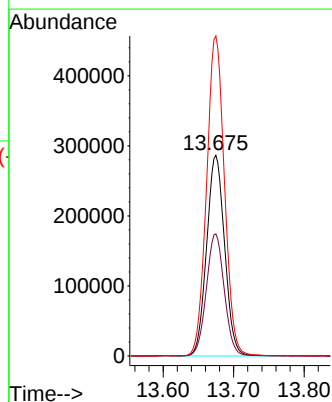
Tgt Ion:152 Resp: 508186

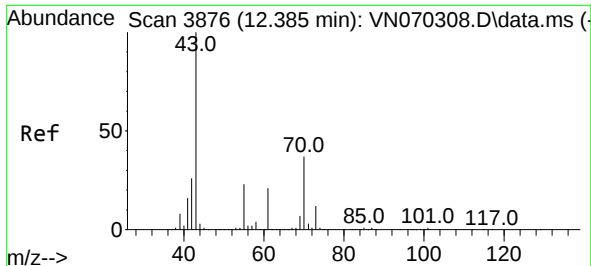
Ion Ratio Lower Upper

152 100

115 60.7 27.5 82.5

150 157.9 0.0 344.4

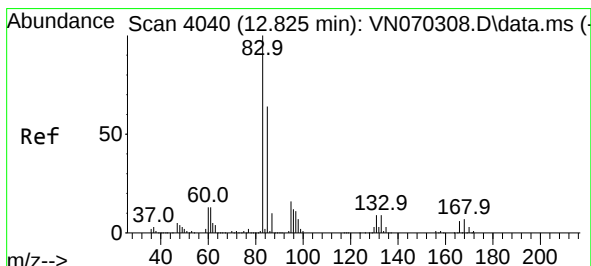
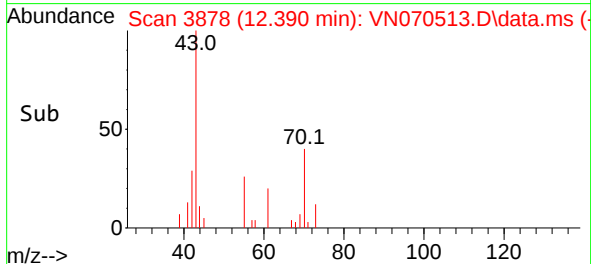
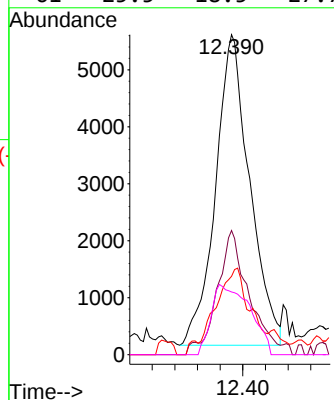
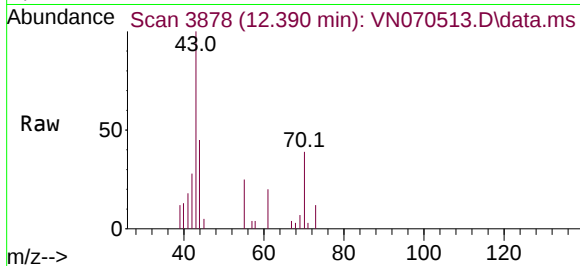




#74
N-amy1 acetate
Concen: 0.574 ug/l
RT: 12.390 min Scan# 3876
Delta R.T. 0.005 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

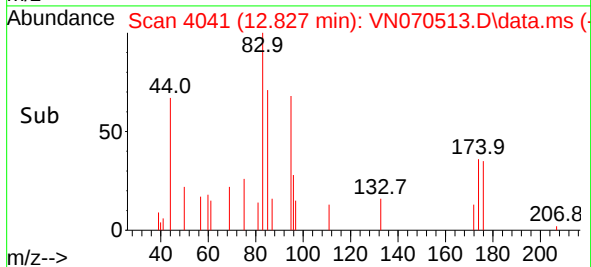
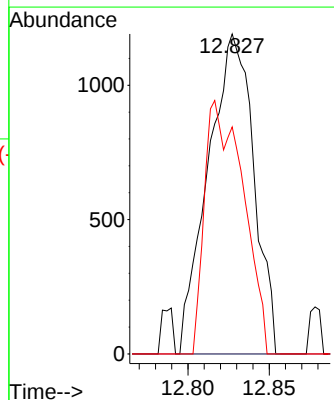
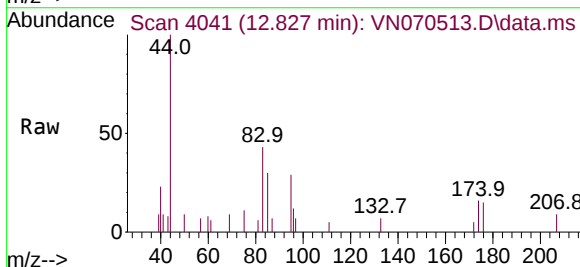
Instrument :
MSVOA_N
ClientSampleId :

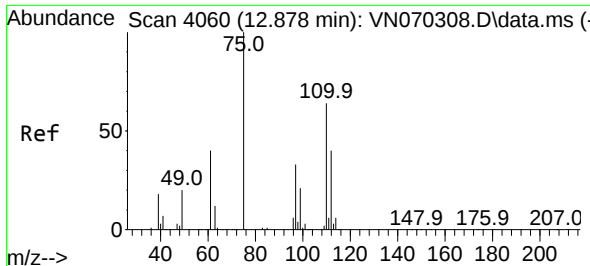
Tgt Ion:	43	Resp:	11393
Ion	Ratio	Lower	Upper
43	100		
70	36.9	33.4	50.0
55	29.1	19.3	28.9#
61	25.5	18.5	27.7



#75
1,1,2,2-Tetrachloroethane
Concen: 0.581 ug/l
RT: 12.827 min Scan# 4041
Delta R.T. 0.002 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

Tgt Ion:	83	Resp:	2326
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.5	16.5#
85	32.9	32.4	97.2

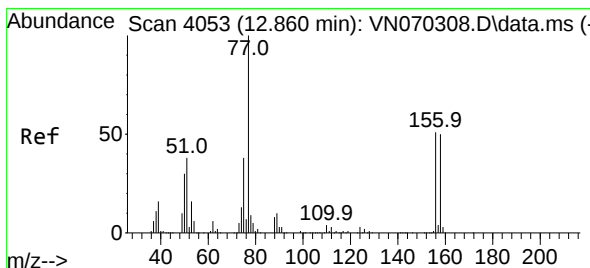
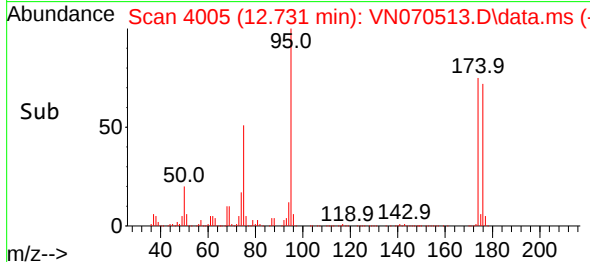
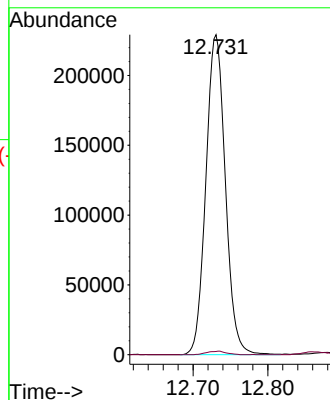
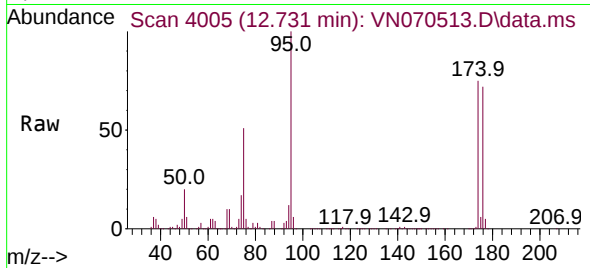




#76
1,2,3-Trichloropropane
Concen: 28.775 ug/l
RT: 12.731 min Scan# 4060
Delta R.T. -0.147 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

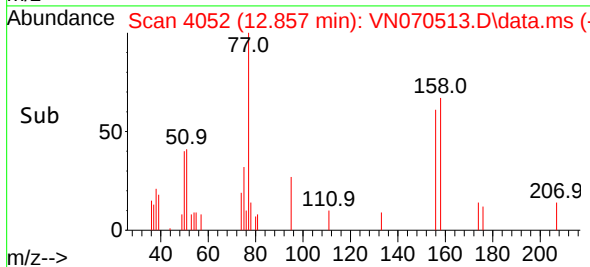
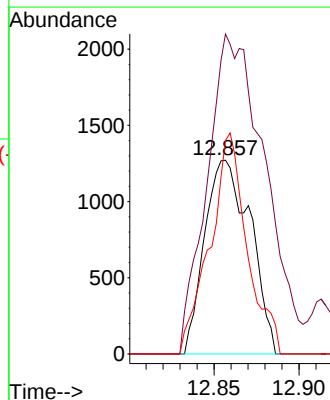
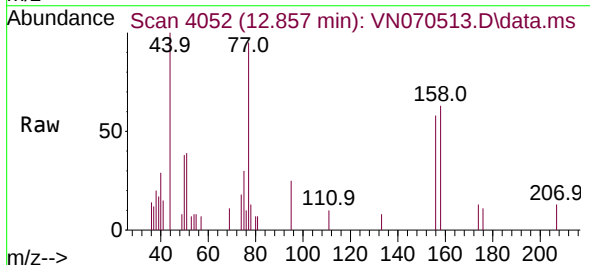
Instrument :
MSVOA_N
ClientSampleId :

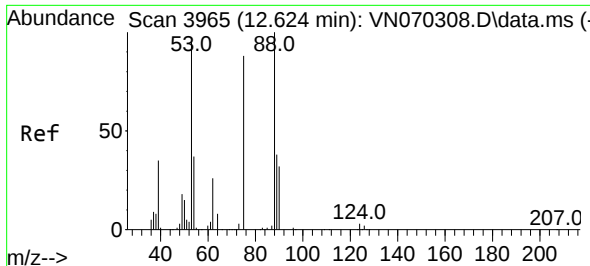
Tgt Ion: 75 Resp: 414447
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#77
Bromobenzene
Concen: 0.219 ug/l
RT: 12.857 min Scan# 4052
Delta R.T. -0.003 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

Tgt Ion:156 Resp: 2377
Ion Ratio Lower Upper
156 100
77 208.1 90.6 271.8
158 92.4 48.9 146.7

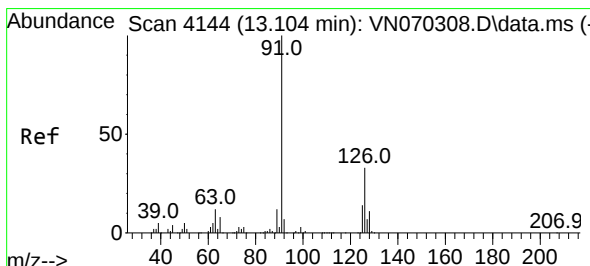
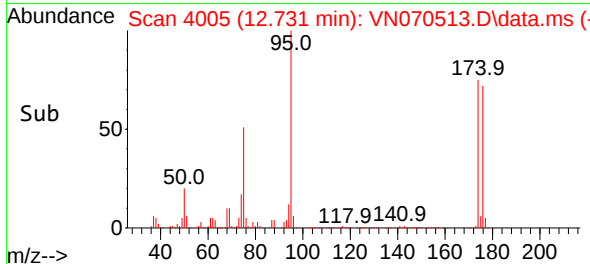
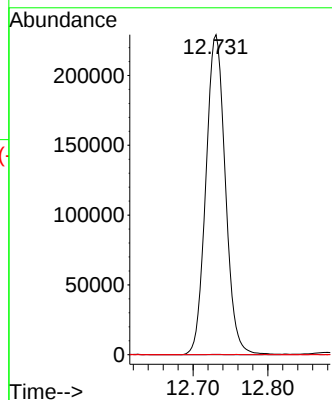
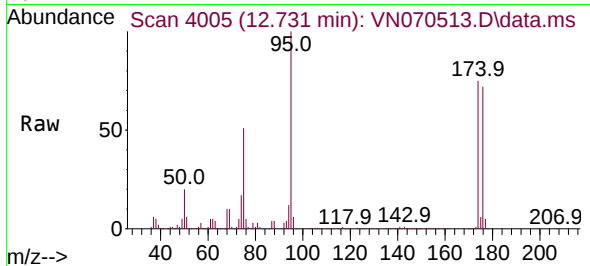




#81
trans-1,4-Dichloro-2-butene
Concen: 99.640 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.107 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

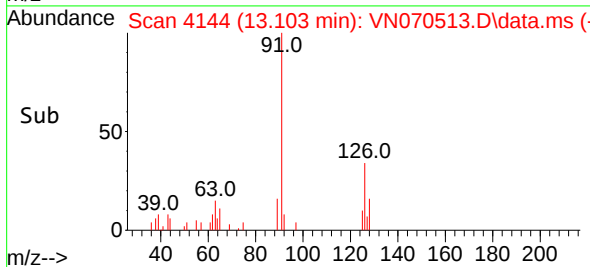
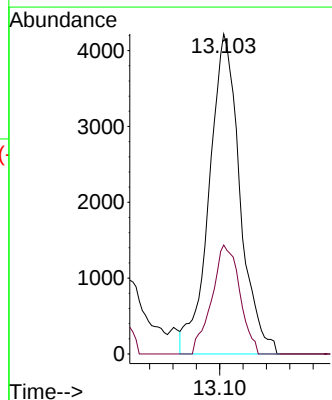
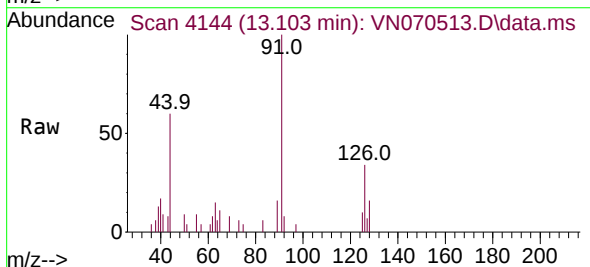
Instrument :
MSVOA_N
ClientSampleId :

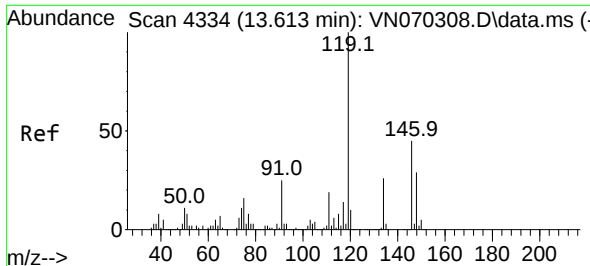
Tgt Ion: 75 Resp: 414447
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#82
4-Chlorotoluene
Concen: 0.245 ug/l
RT: 13.103 min Scan# 4144
Delta R.T. -0.001 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

Tgt Ion: 91 Resp: 7697
Ion Ratio Lower Upper
91 100
126 30.9 18.2 54.6

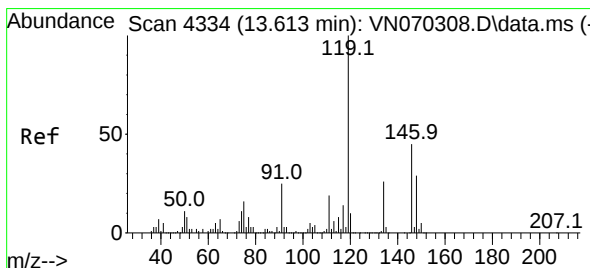
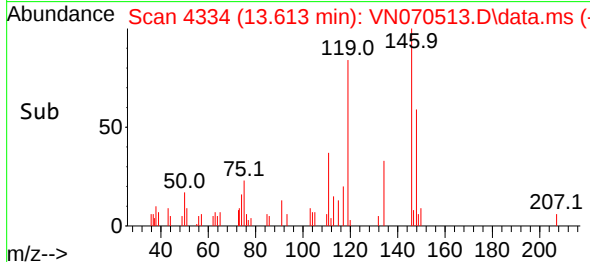
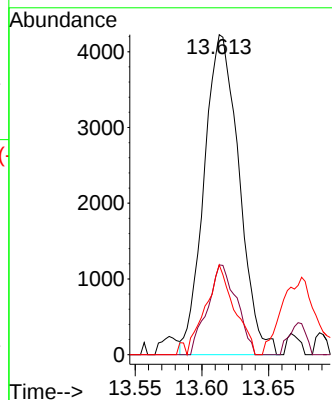
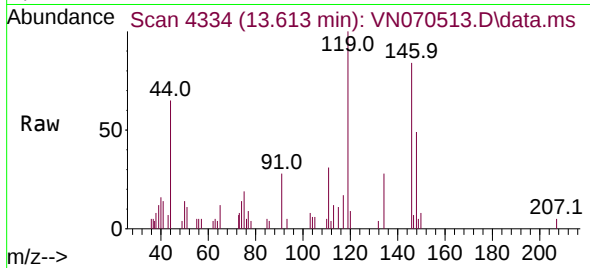




#86
p-Isopropyltoluene
Concen: 0.216 ug/l
RT: 13.613 min Scan# 4334
Delta R.T. 0.000 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

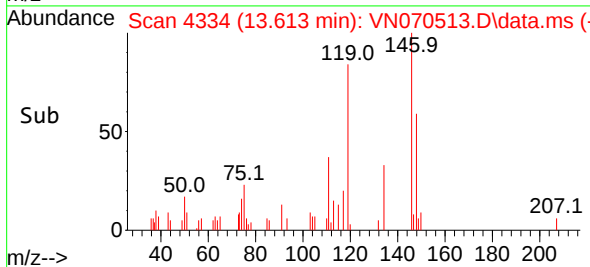
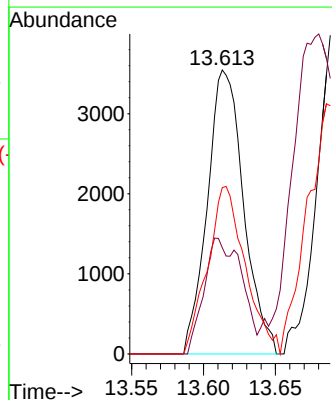
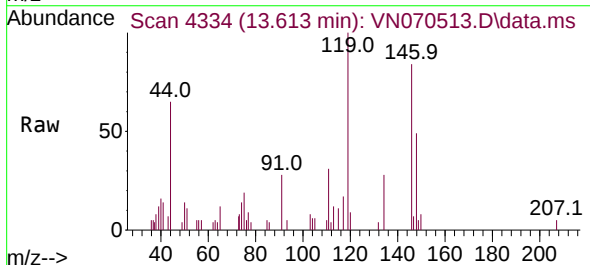
Instrument :
MSVOA_N
ClientSampleId :

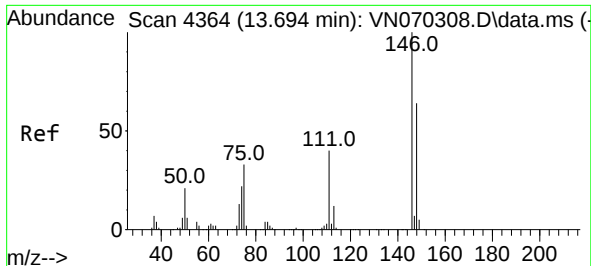
Tgt Ion:119 Resp: 7686
Ion Ratio Lower Upper
119 100
134 23.3 13.6 40.7
91 22.9 11.4 34.1



#87
1,3-Dichlorobenzene
Concen: 0.343 ug/l
RT: 13.613 min Scan# 4334
Delta R.T. 0.000 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

Tgt Ion:146 Resp: 6225
Ion Ratio Lower Upper
146 100
111 42.4 18.6 55.6
148 61.1 31.6 95.0

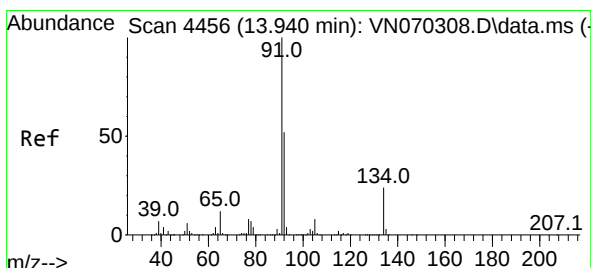
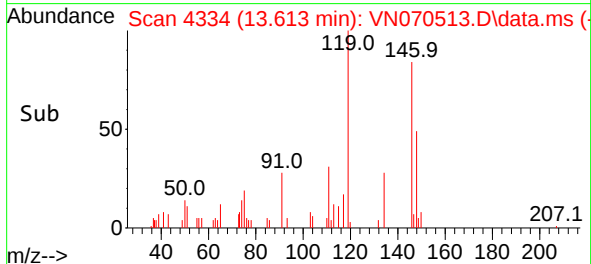
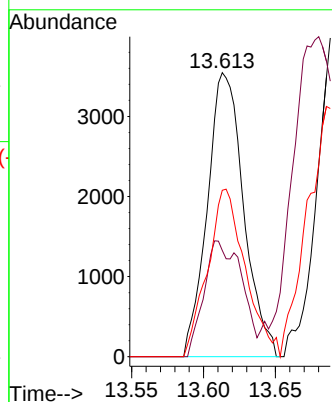
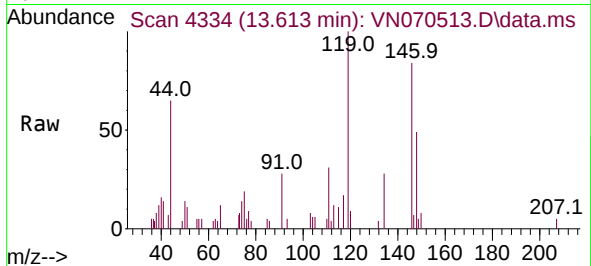




#88
1,4-Dichlorobenzene
Concen: 0.348 ug/l
RT: 13.613 min Scan# 41
Delta R.T. -0.081 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

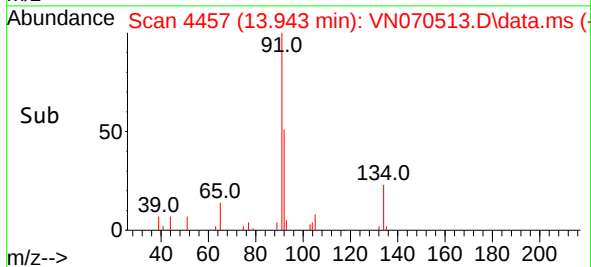
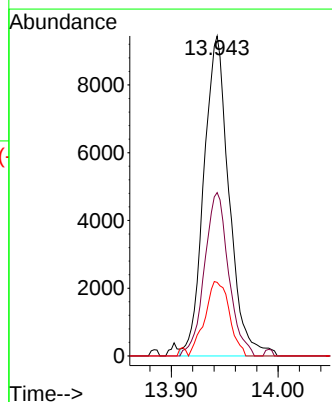
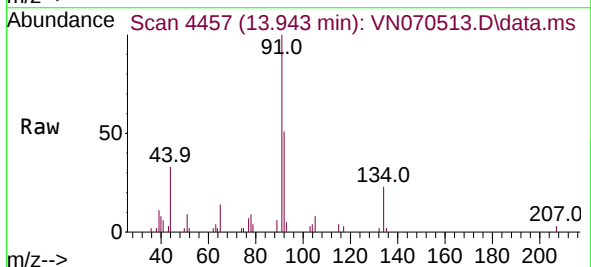
Instrument :
MSVOA_N
ClientSampleId :

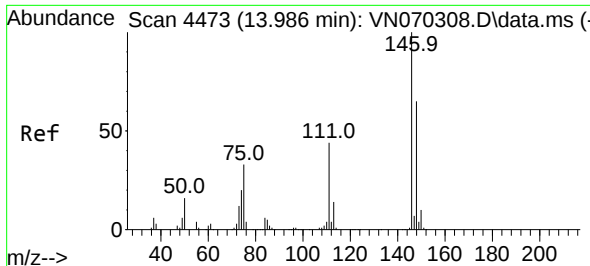
Tgt Ion:146 Resp: 6225
Ion Ratio Lower Upper
146 100
111 42.4 18.3 54.8
148 61.1 31.8 95.4



#89
n-Butylbenzene
Concen: 0.523 ug/l
RT: 13.943 min Scan# 4457
Delta R.T. 0.003 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

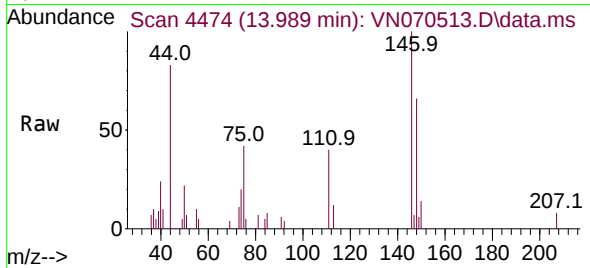
Tgt Ion: 91 Resp: 15484
Ion Ratio Lower Upper
91 100
92 48.9 25.4 76.0
134 22.6 13.6 40.8



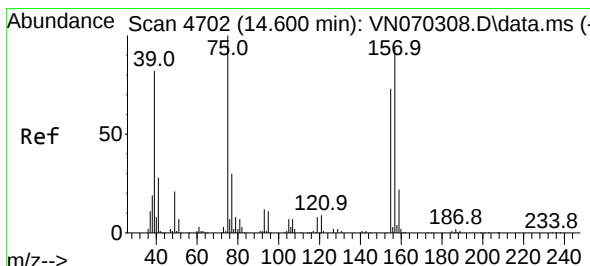
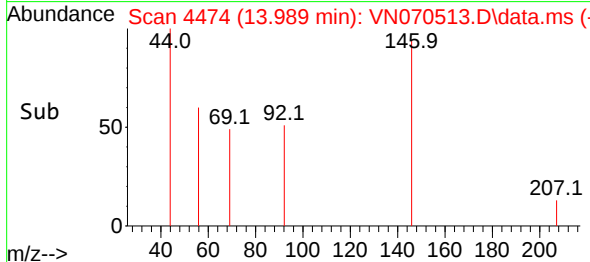
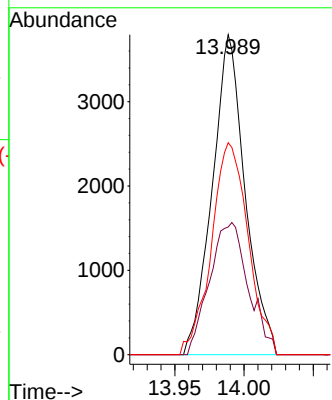


#91
1,2-Dichlorobenzene
Concen: 0.352 ug/l
RT: 13.989 min Scan# 4473
Delta R.T. 0.003 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

Instrument :
MSVOA_N
ClientSampleId :

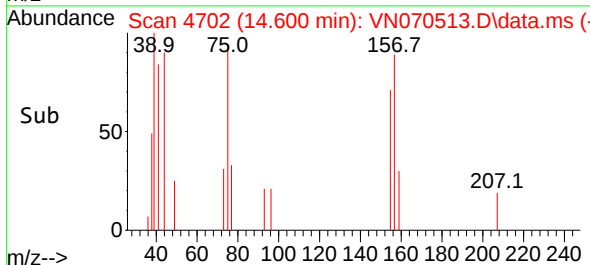
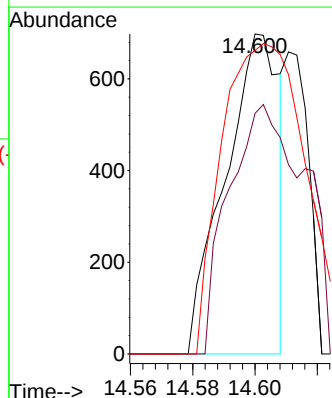
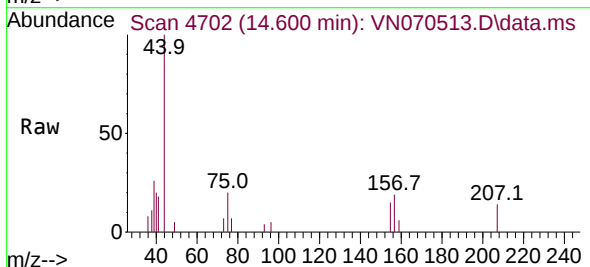


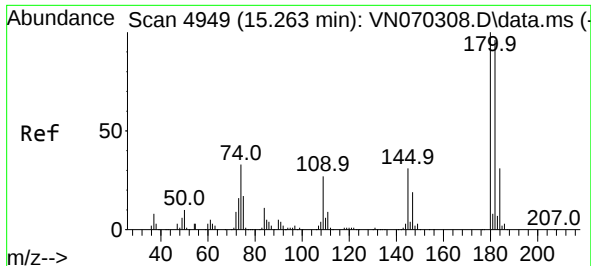
Tgt Ion:146 Resp: 6258
Ion Ratio Lower Upper
146 100
111 48.9 19.1 57.3
148 74.1 32.1 96.3



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.305 ug/l
RT: 14.600 min Scan# 4702
Delta R.T. 0.000 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

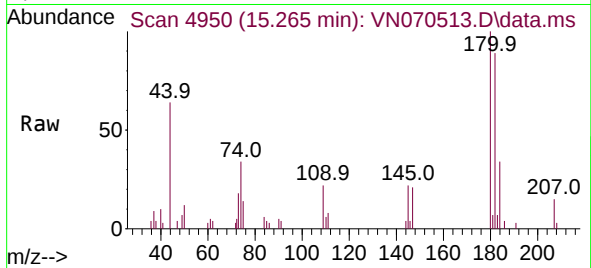
Tgt Ion: 75 Resp: 834
Ion Ratio Lower Upper
75 100
155 110.3 46.9 140.7
157 150.2 60.6 181.7



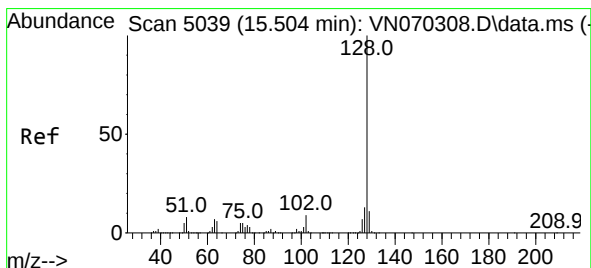
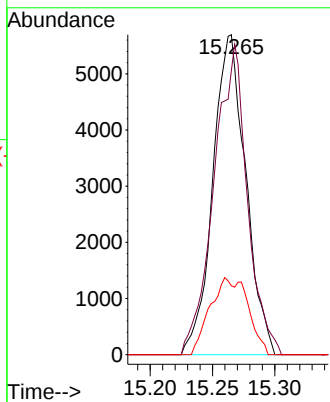
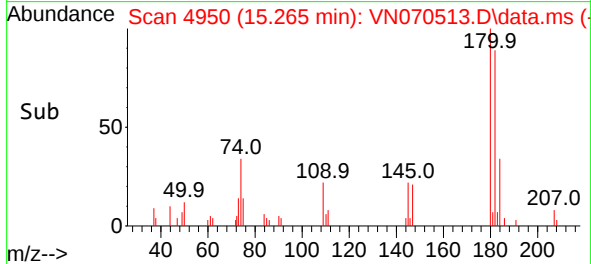


#93
1,2,4-Trichlorobenzene
Concen: 1.248 ug/l
RT: 15.265 min Scan# 4949
Delta R.T. 0.002 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37

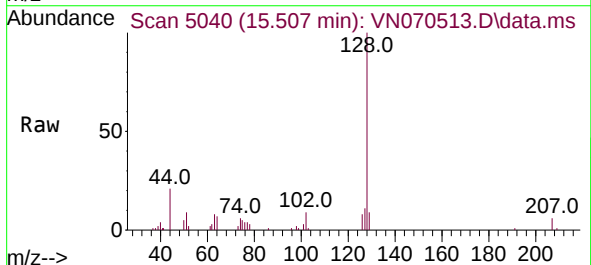
Instrument :
MSVOA_N
ClientSampleId :



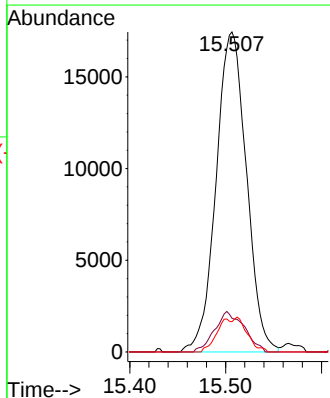
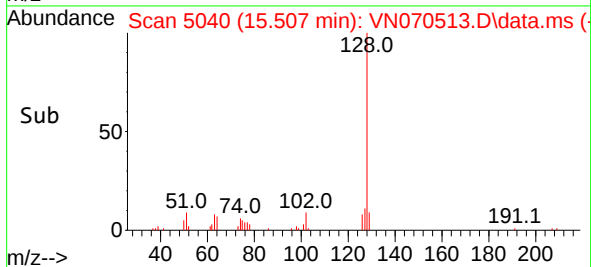
Tgt Ion:180 Resp: 10453
Ion Ratio Lower Upper
180 100
182 98.1 48.3 144.9
145 17.8 14.5 43.5

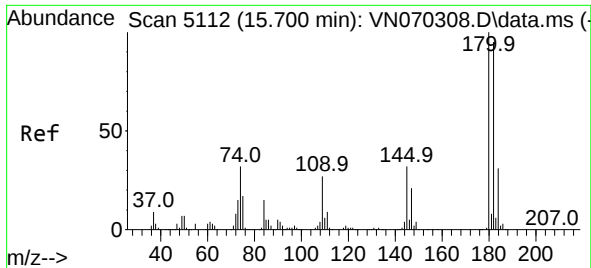


#95
Naphthalene
Concen: 3.394 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. 0.003 min
Lab File: VN070513.D
Acq: 6 Jan 2022 12:37



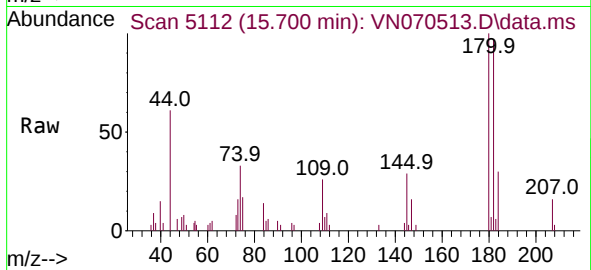
Tgt Ion:128 Resp: 38354
Ion Ratio Lower Upper
128 100
127 12.3 10.5 15.7
129 5.3 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.288 ug/l
 RT: 15.700 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VN070513.D
 Acq: 6 Jan 2022 12:37

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 11910
 Ion Ratio Lower Upper
 180 100
 182 95.8 47.4 142.2
 145 31.8 15.0 45.1

