

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081723\
 Data File : VN078920.D
 Acq On : 17 Aug 2023 12:39
 Operator : JC\MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Quant Time: Aug 18 05:04:10 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:01:29 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.447	128	113	30.000	ug/l	-0.38
28) 1,4-Difluorobenzene	8.865	114	268318	30.000	ug/l	-0.24
57) Chlorobenzene-d5	11.817	117	236428	30.000	ug/l	-0.05
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.265	65	109061	11913.114	ug/l	-0.32
Spiked Amount	30.000	Range 91 - 110	Recovery	= 39710.367%#		
60) 4-Bromofluorobenzene	12.823	95	107724	31.235	ug/l	-0.03
Spiked Amount	30.000	Range 63 - 112	Recovery	= 104.133%		
63) Toluene-d8	10.565	98	172	0.016	ug/l	0.00
Spiked Amount	30.000	Range 91 - 112	Recovery	= 0.067%#		
Target Compounds						Qvalue
3) Chloromethane	2.242	50	199	23.287	ug/l #	44
4) Vinyl Chloride	2.153	62	155	18.326	ug/l #	1
6) Chloroethane	3.324	64	1128	205.232	ug/l #	1
7) Trichlorofluoromethane	3.371	101	123371	10830.127	ug/l	96
12) Methyl Acetate	4.871	43	51297	3656.349	ug/l	91
14) Acrylonitrile	5.288	53	54	14.642	ug/l #	17
15) Acetone	4.524	58	272	240.157	ug/l	88
16) Carbon Disulfide	4.200	76	124	7.210	ug/l #	76
17) Allyl chloride	4.706	41	121	11.254	ug/l #	71
20) Diisopropyl ether	6.218	45	61	2.556	ug/l #	47
21) 1,1-Dichloroethane	5.830	63	251111	18963.122	ug/l	95
22) cis-1,2-Dichloroethene	6.965	96	161676	20969.615	ug/l	98
23) tert-Butyl Alcohol	4.936	59	80	58.154	ug/l #	100
24) Methyl tert-Butyl Ether	5.136	73	76	3.575	ug/l #	1
25) Chloroform	7.553	83	275419	20646.124	ug/l	95
26) Cyclohexane	7.882	56	207249	21395.446	ug/l #	99
29) 1,1-Dichloropropene	8.024	75	209587	51.348	ug/l	99
31) 2,2-Dichloropropane	7.865	77	1362	0.302	ug/l #	1
32) 1,1,1-Trichloroethane	7.782	97	239610	49.169	ug/l	99
33) Carbon Tetrachloride	8.006	117	212661	50.382	ug/l #	90
34) Benzene	8.288	78	608851	49.776	ug/l	96
35) Methacrylonitrile	7.330	41	93637	36.767	ug/l	95
36) 1,2-Dichloroethane	8.371	62	222669	48.612	ug/l	97
37) Trichloroethene	9.135	130	147681	48.504	ug/l	95
38) Methylcyclohexane	9.406	83	190290	52.954	ug/l	97
39) 1,2-Dichloropropane	9.429	63	163062	49.491	ug/l	99
41) Bromodichloromethane	9.729	83	216888	48.833	ug/l	96
45) 1,4-Dioxane	9.523	88	65305	1062.451	ug/l	96
46) Methyl methacrylate	9.512	41	187306	52.047	ug/l	93
47) n-amyl Acetate	12.476	43	342734	54.680	ug/l	100
49) cis-1,3-Dichloropropene	10.188	75	263277	51.905	ug/l	95
50) 1,1,2-Trichloroethane	10.935	97	147308	49.357	ug/l	97
51) Ethyl methacrylate	10.794	69	248135	53.716	ug/l	98
52) 1,3-Dichloropropane	11.088	76	264531	49.485	ug/l	99
53) Dibromochloromethane	11.288	129	163701	50.115	ug/l	99
54) 1,2-Dibromoethane	11.406	107	154036	50.272	ug/l	96
55) 2-Chloroethyl vinyl ether	10.029	63	542075	253.884	ug/l	99
56) Bromoform	12.547	173	118939	51.608	ug/l	98
58) 4-Methyl-2-Pentanone	10.335	43	1213882	258.779	ug/l	100

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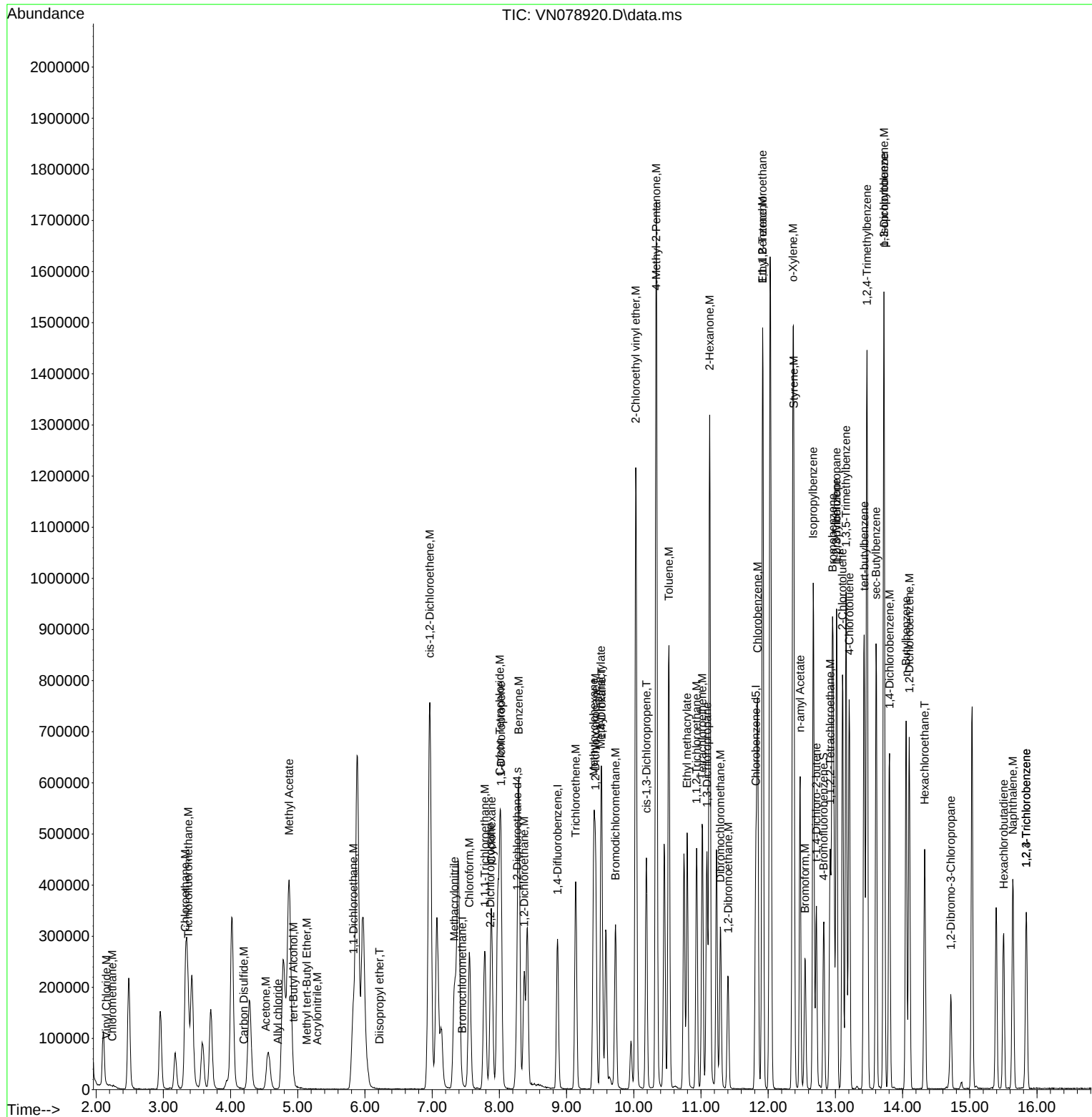
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 2-Hexanone	11.129	43	901688	262.357	ug/l	100
61) Tetrachloroethene	11.018	164	113856	49.736	ug/l	97
62) Toluene	10.523	91	655706	50.799	ug/l	97
64) Chlorobenzene	11.841	112	391826	50.487	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.917	131	150247	50.631	ug/l	96
66) Ethyl Benzene	11.917	91	704088	52.148	ug/l	99
68) o-Xylene	12.370	106	259797	52.340	ug/l	99
69) Styrene	12.382	104	430796	53.412	ug/l	96
70) Isopropylbenzene	12.670	105	646775	53.777	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.923	83	225993	50.126	ug/l	98
72) 1,2,3-Trichloropropane	13.017	75	4130	1.045	ug/l #	1
73) Bromobenzene	12.959	156	159471	52.083	ug/l	99
74) n-propylbenzene	13.017	91	741233	54.381	ug/l	99
75) 2-Chlorotoluene	13.106	91	462430	53.478	ug/l	99
76) 1,3,5-Trimethylbenzene	13.159	105	511872	53.689	ug/l	99
77) t-1,4-Dichloro-2-butene	12.717	75	75112	54.646	ug/l	87
78) 4-Chlorotoluene	13.206	91	446496	53.897	ug/l	99
79) tert-butylbenzene	13.429	119	434213	53.896	ug/l	97
80) 1,2,4-Trimethylbenzene	13.470	105	507679	54.154	ug/l	98
81) sec-Butylbenzene	13.606	105	591730	55.653	ug/l	97
82) p-Isopropyltoluene	13.723	119	490605	56.516	ug/l	99
83) 1,3-Dichlorobenzene	13.723	146	272534	55.154	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	271002	55.861	ug/l	99
85) n-Butylbenzene	14.053	91	397548	58.227	ug/l	97
86) Hexachloroethane	14.329	117	95207	53.601	ug/l	97
87) 1,2-Dichlorobenzene	14.100	146	270563	53.460	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	44201	54.622	ug/l	92
89) 1,2,4-Trichlorobenzene	15.841	180	125083	62.565	ug/l	96
90) Hexachlorobutadiene	15.505	225	56507	54.301	ug/l	94
91) Naphthalene	15.641	128	372140	64.553	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	125083	62.580	ug/l	96

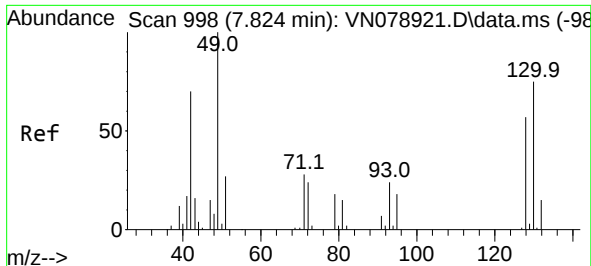
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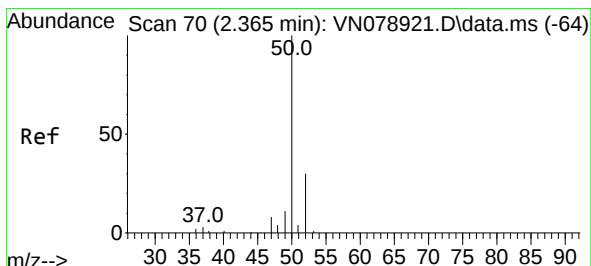
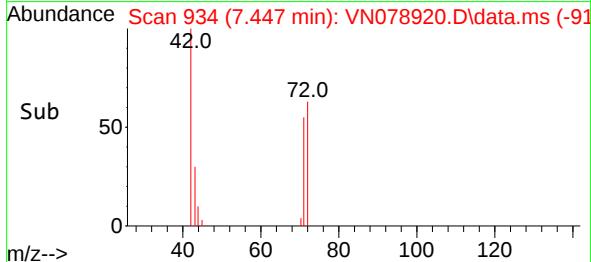
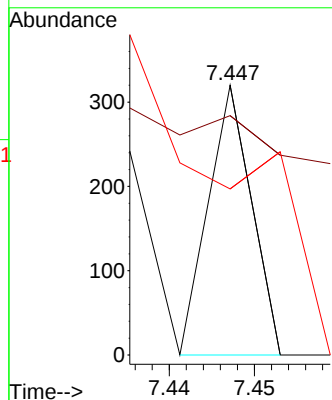
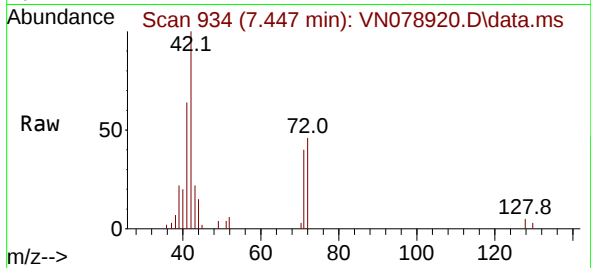




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.447 min Scan# 91
Delta R.T. -0.377 min
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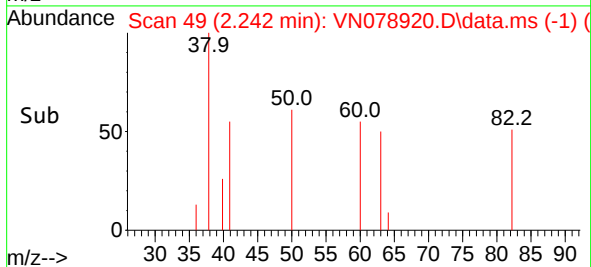
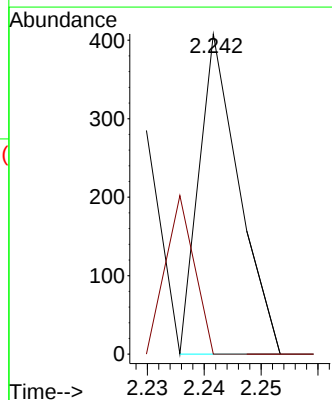
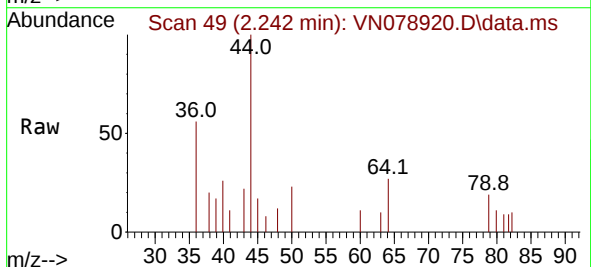
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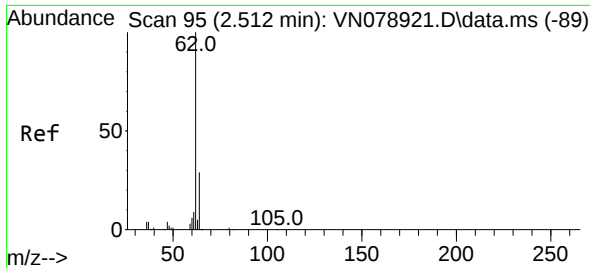
Tgt Ion:128 Resp: 113
Ion Ratio Lower Upper
128 100
49 69.0 0.0 481.8
130 75.2 0.0 320.5



#3
Chloromethane
Concen: 23.287 ug/l
RT: 2.242 min Scan# 49
Delta R.T. -0.124 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion: 50 Resp: 199
Ion Ratio Lower Upper
50 100
52 0.0 24.2 36.4#

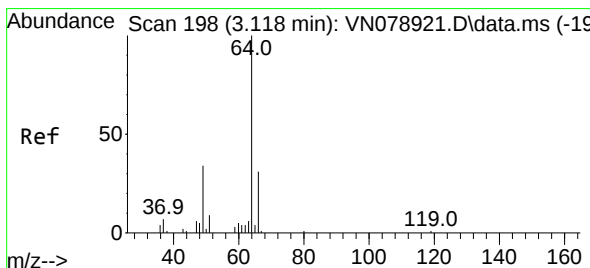
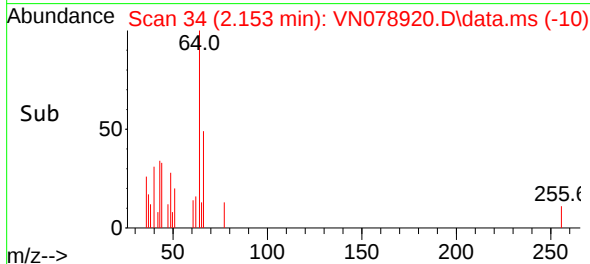
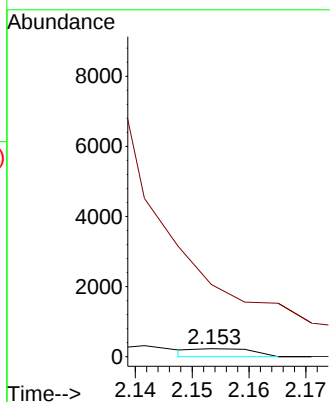
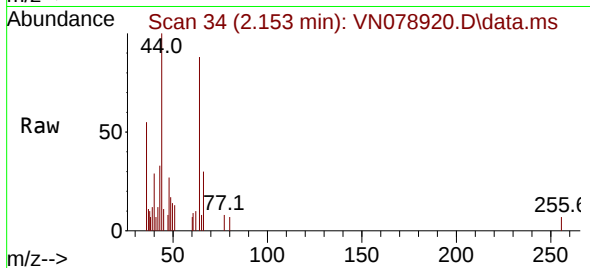




#4
 Vinyl Chloride
 Concen: 18.326 ug/l
 RT: 2.153 min Scan# 34
 Delta R.T. -0.359 min
 Lab File: VN078920.D
 Acq: 17 Aug 2023 12:39

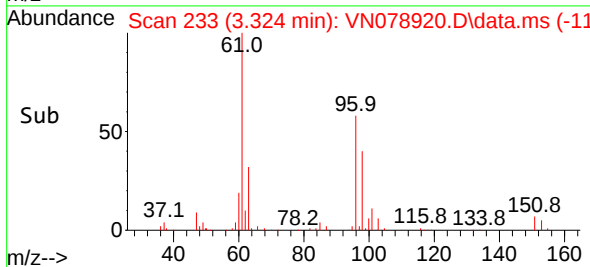
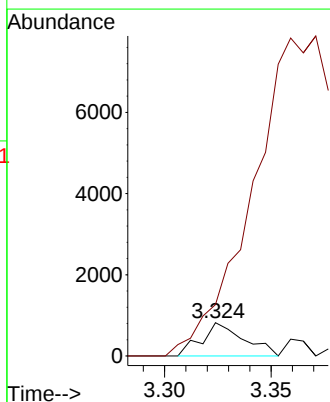
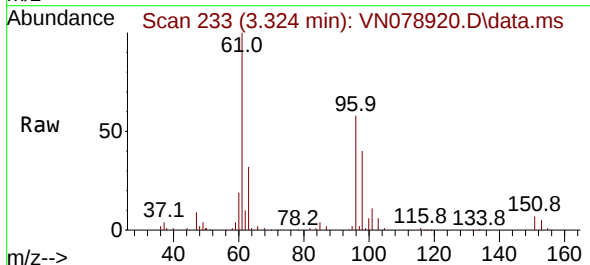
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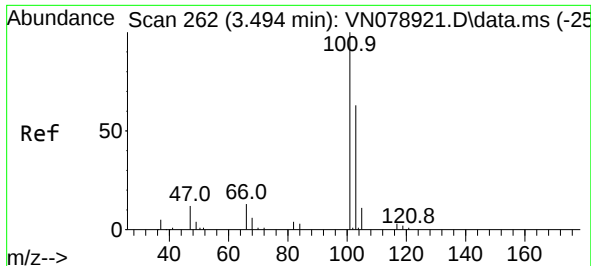
Tgt Ion: 62 Resp: 155
 Ion Ratio Lower Upper
 62 100
 64 233.2 23.8 35.8#



#6
 Chloroethane
 Concen: 205.232 ug/l
 RT: 3.324 min Scan# 233
 Delta R.T. 0.206 min
 Lab File: VN078920.D
 Acq: 17 Aug 2023 12:39

Tgt Ion: 64 Resp: 1128
 Ion Ratio Lower Upper
 64 100
 66 119.8 24.9 37.3#

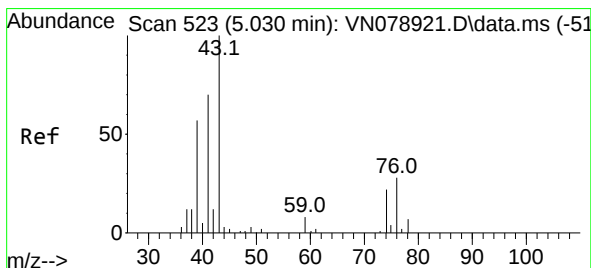
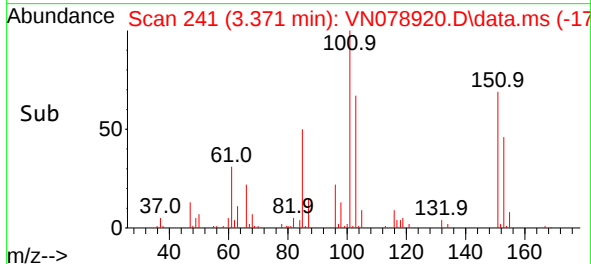
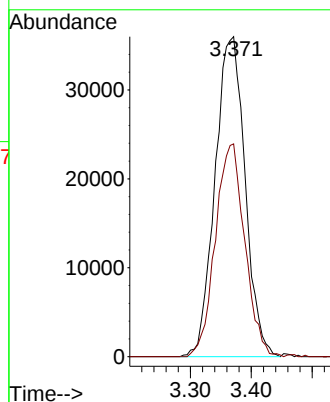
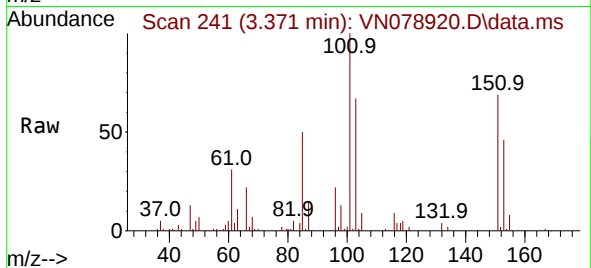




#7
 Trichlorofluoromethane
 Concen: 10830.127 ug/l
 RT: 3.371 min Scan# 241
 Delta R.T. -0.124 min
 Lab File: VN078920.D
 Acq: 17 Aug 2023 12:39

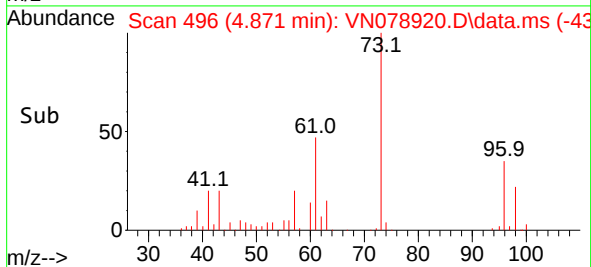
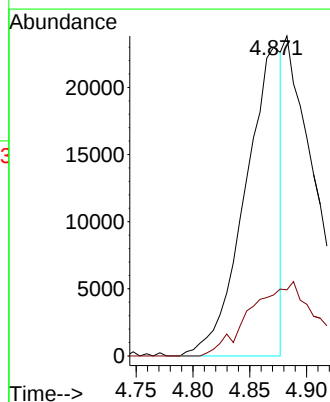
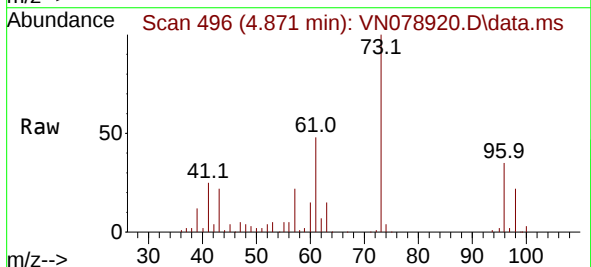
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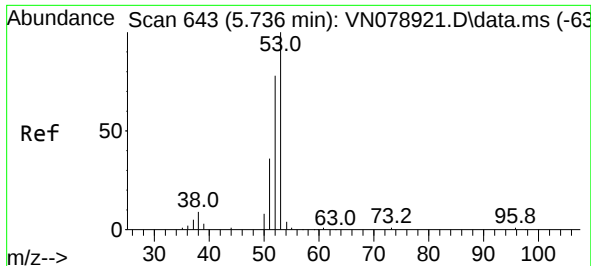
Tgt Ion:101 Resp: 123371
 Ion Ratio Lower Upper
 101 100
 103 66.5 50.9 76.3



#12
 Methyl Acetate
 Concen: 3656.349 ug/l
 RT: 4.871 min Scan# 496
 Delta R.T. -0.159 min
 Lab File: VN078920.D
 Acq: 17 Aug 2023 12:39

Tgt Ion: 43 Resp: 51297
 Ion Ratio Lower Upper
 43 100
 74 17.6 17.5 26.3

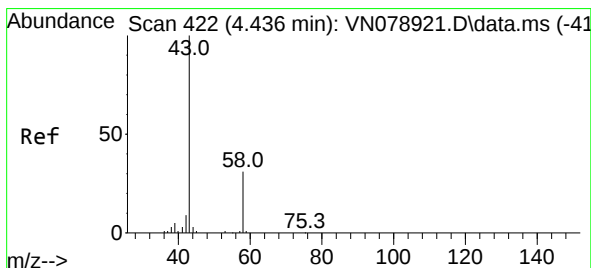
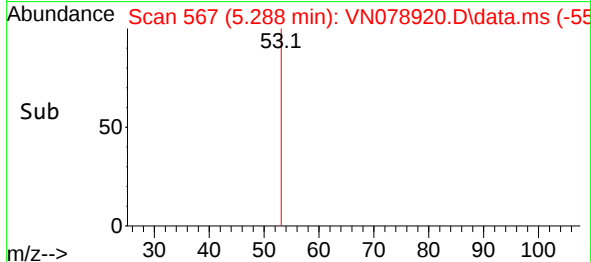
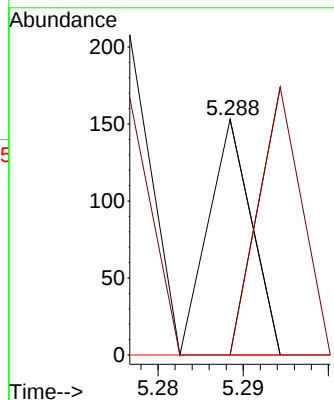
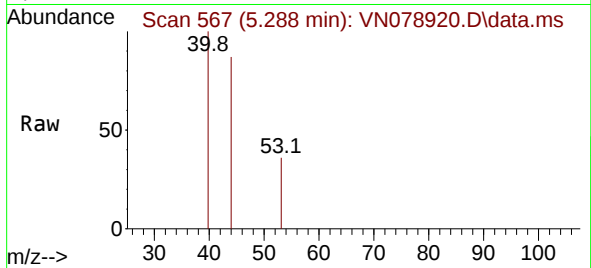




#14
Acrylonitrile
Concen: 14.642 ug/l
RT: 5.288 min Scan# 50
Delta R.T. -0.447 min
Lab File: VN078920.D
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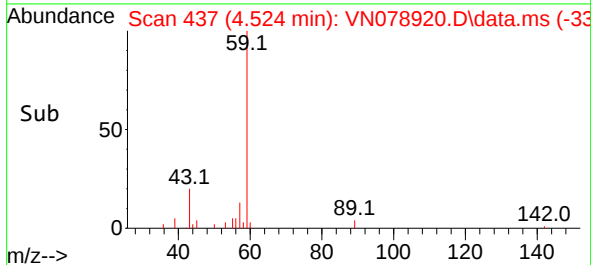
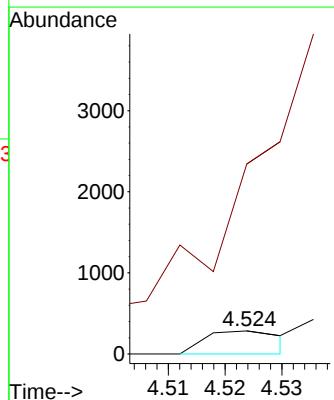
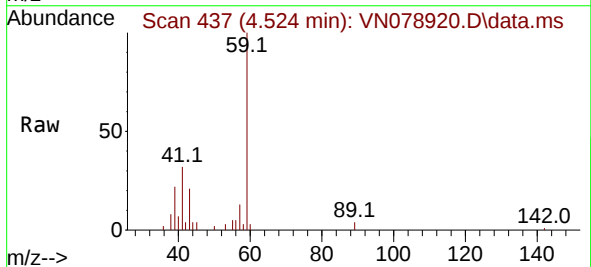
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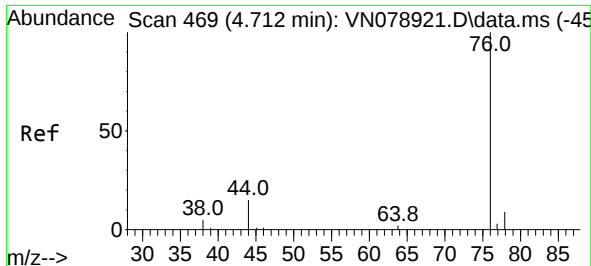
Tgt Ion: 53 Resp: 54
Ion Ratio Lower Upper
53 100
52 0.0 41.9 125.6#
51 0.0 10.1 30.1#



#15
Acetone
Concen: 240.157 ug/l
RT: 4.524 min Scan# 437
Delta R.T. 0.088 min
Lab File: VN078920.D
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Tgt Ion: 58 Resp: 272
Ion Ratio Lower Upper
58 100
43 350.5 260.6 390.8

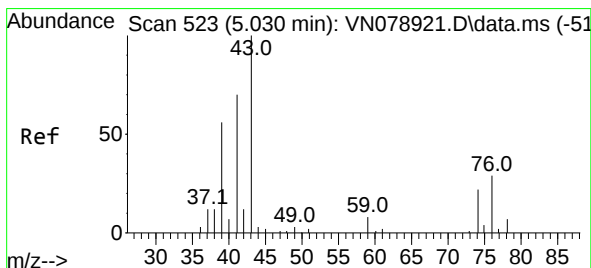
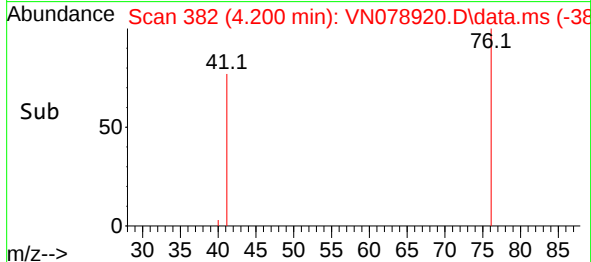
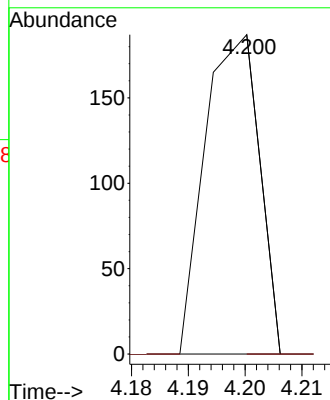
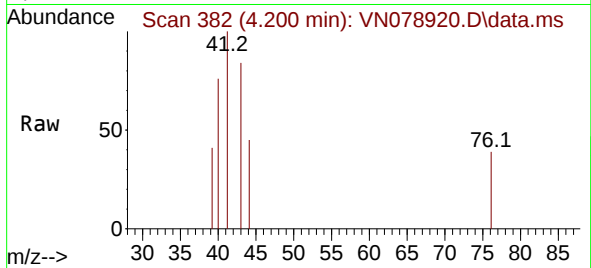




#16
Carbon Disulfide
Concen: 7.210 ug/l
RT: 4.200 min Scan# 31
Delta R.T. -0.512 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

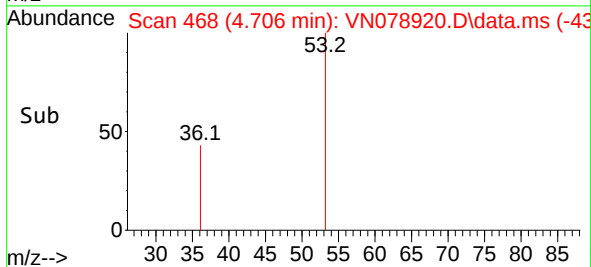
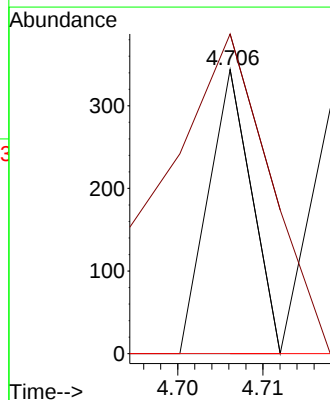
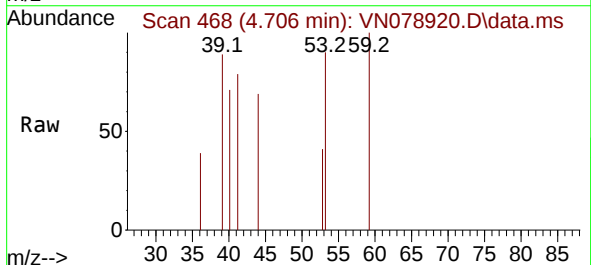
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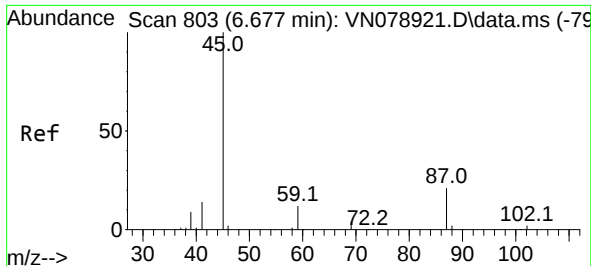
Tgt Ion: 76 Resp: 124
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#17
Allyl chloride
Concen: 11.254 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.324 min
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Tgt Ion: 41 Resp: 121
Ion Ratio Lower Upper
41 100
39 61.9 36.9 110.7
76 0.0 17.3 51.9#

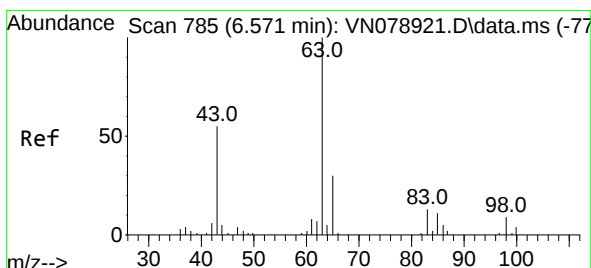
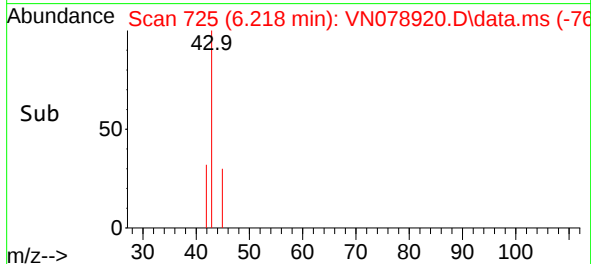
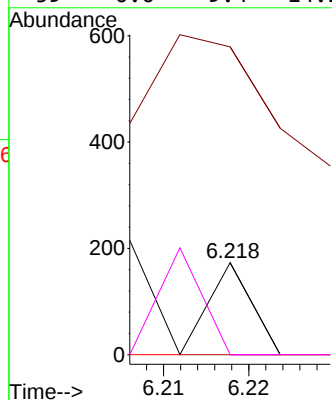
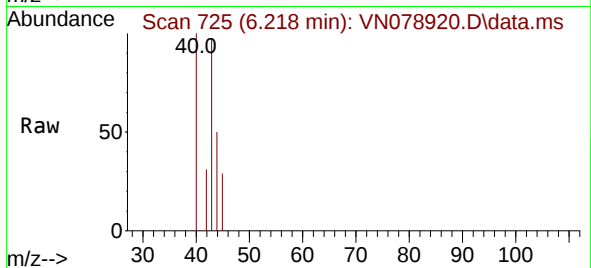




#20
Diisopropyl ether
Concen: 2.556 ug/l
RT: 6.218 min Scan# 71
Delta R.T. -0.459 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

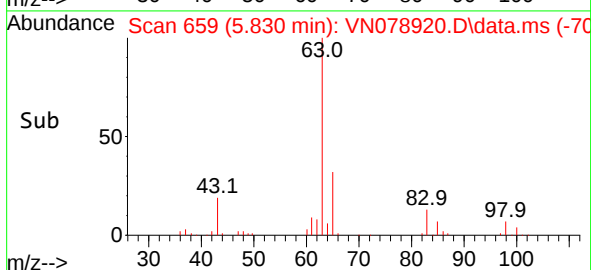
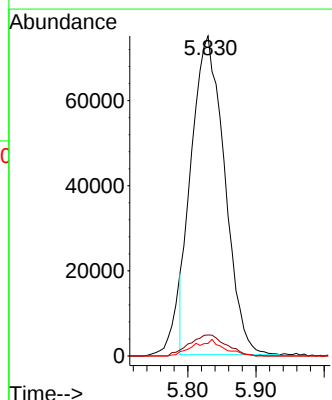
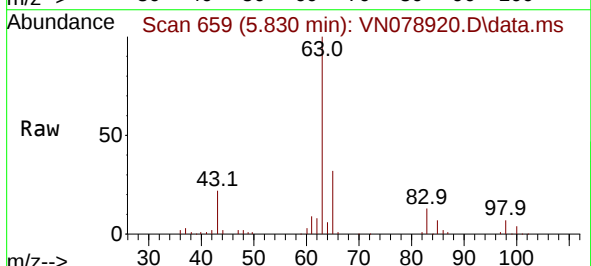
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

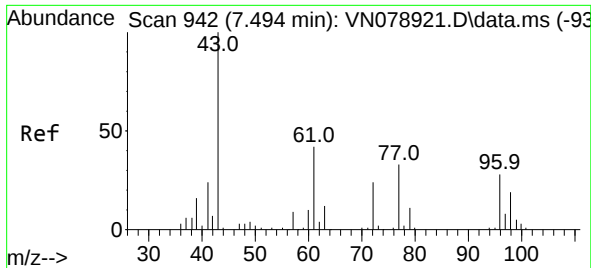
Tgt Ion: 45	Resp: 61
Ion Ratio	Lower Upper
45 100	
43 88.4	37.4 56.2#
87 0.0	17.3 25.9#
59 0.0	9.4 14.2#



#21
1,1-Dichloroethane
Concen: 18963.122 ug/l
RT: 5.830 min Scan# 659
Delta R.T. -0.741 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion: 63	Resp: 251111
Ion Ratio	Lower Upper
63 100	
98 6.6	4.4 13.2
100 3.9	2.1 6.5

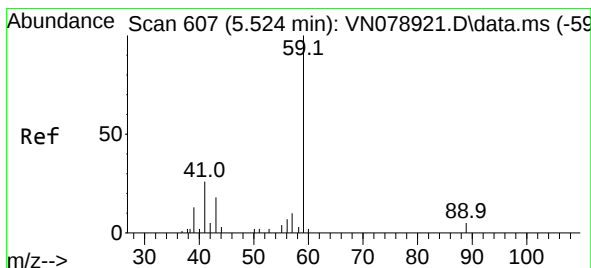
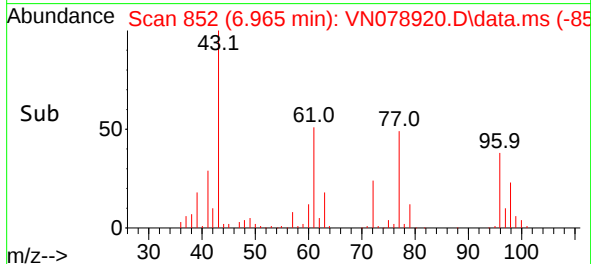
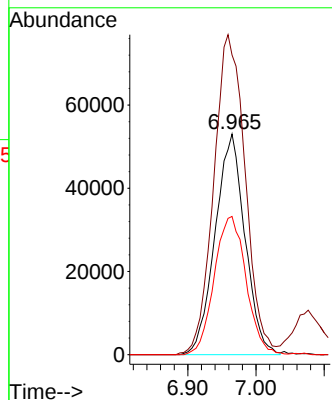
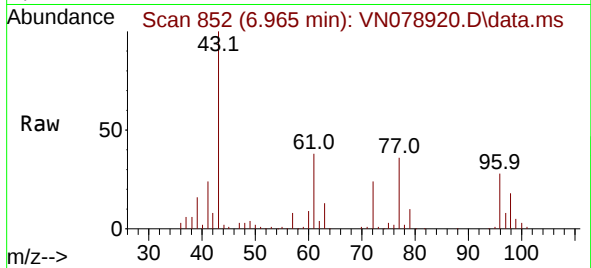




#22
 cis-1,2-Dichloroethene
 Concen: 20969.615 ug/l
 RT: 6.965 min Scan# 81
 Delta R.T. -0.529 min
 Lab File: VN078920.D
 Acq: 17 Aug 2023 12:39

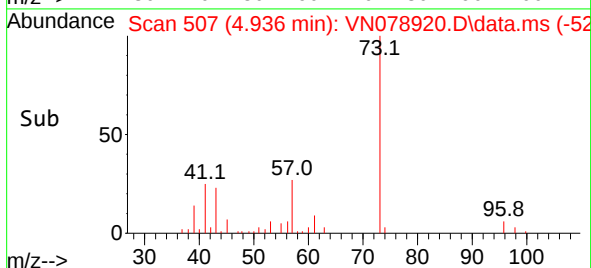
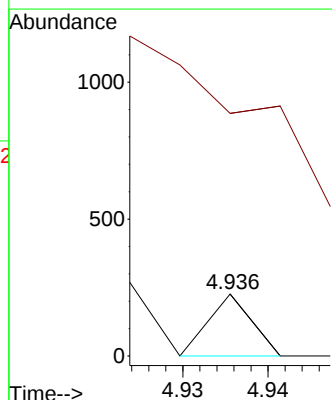
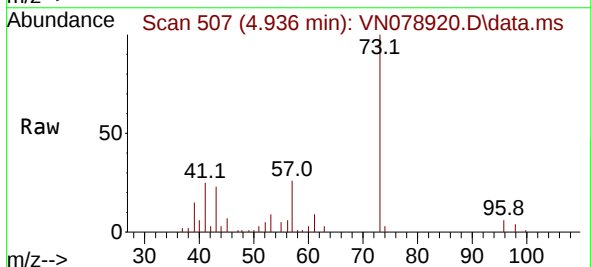
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

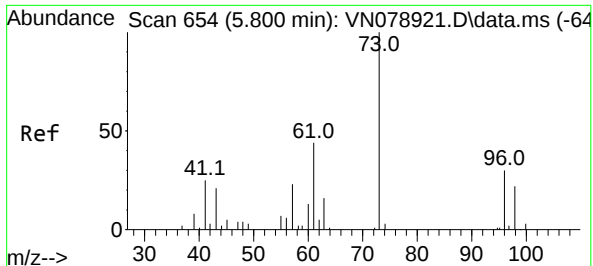
Tgt Ion: 96 Resp: 161676
 Ion Ratio Lower Upper
 96 100
 61 152.9 121.8 182.6
 98 66.6 50.7 76.1



#23
 tert-Butyl Alcohol
 Concen: 58.154 ug/l
 RT: 4.936 min Scan# 507
 Delta R.T. -0.588 min
 Lab File: VN078920.D
 Acq: 17 Aug 2023 12:39

Tgt Ion: 59 Resp: 80
 Ion Ratio Lower Upper
 59 100
 52 786.3 0.0 0.0#

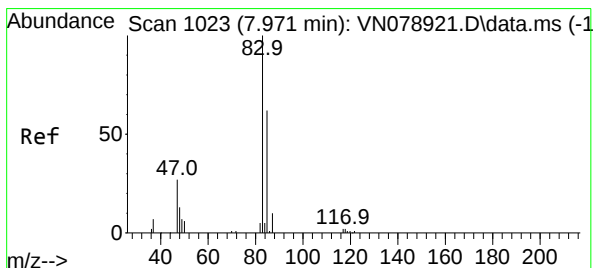
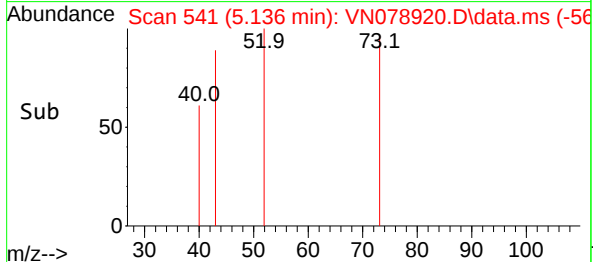
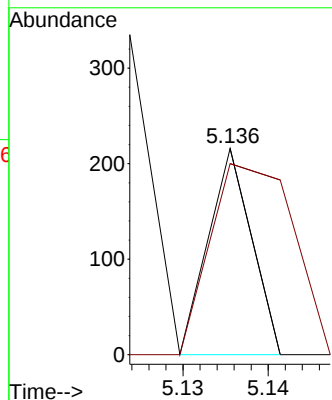
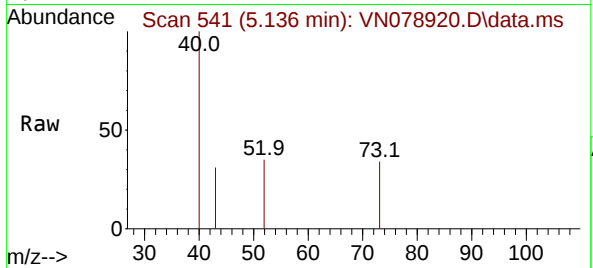




#24
Methyl tert-Butyl Ether
Concen: 3.575 ug/l
RT: 5.136 min Scan# 541
Delta R.T. -0.665 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

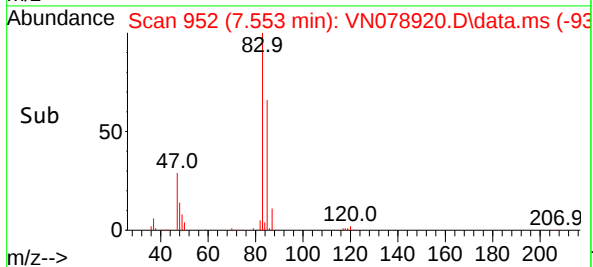
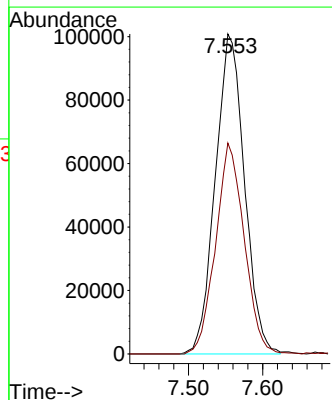
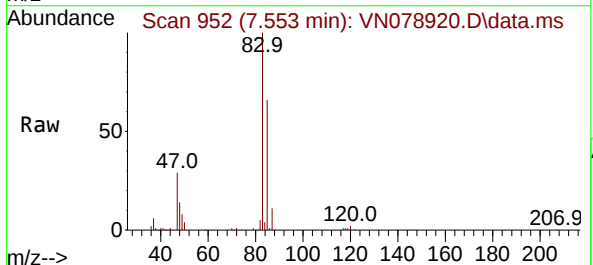
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

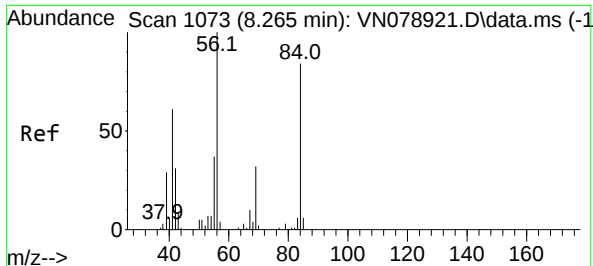
Tgt Ion: 73 Resp: 76
Ion Ratio Lower Upper
73 100
43 177.6 17.3 25.9#



#25
Chloroform
Concen: 20646.124 ug/l
RT: 7.553 min Scan# 952
Delta R.T. -0.418 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion: 83 Resp: 275419
Ion Ratio Lower Upper
83 100
85 65.9 49.6 74.4

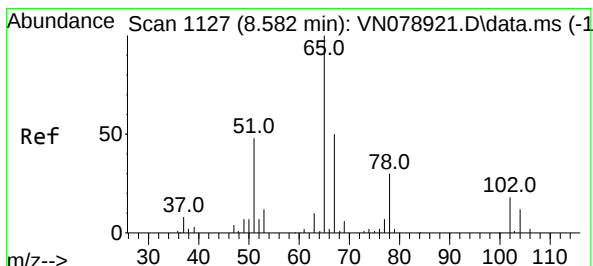
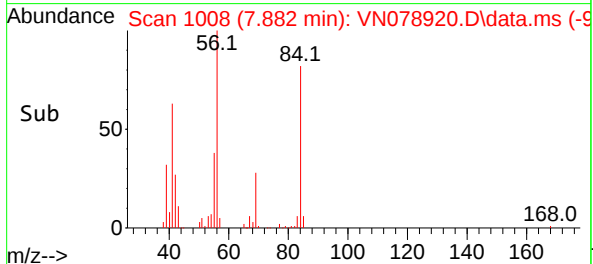
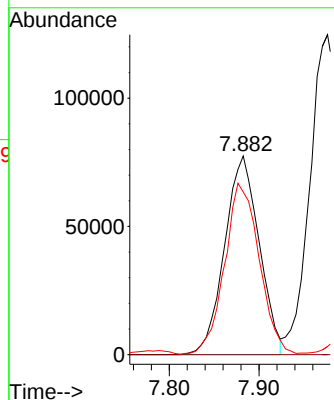
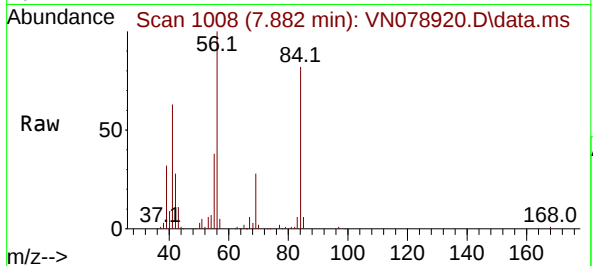




#26
Cyclohexane
Concen: 21395.446 ug/l
RT: 7.882 min Scan# 1008
Delta R.T. -0.382 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

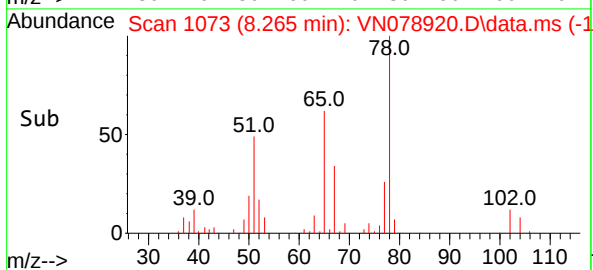
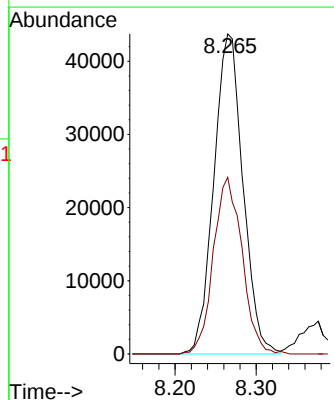
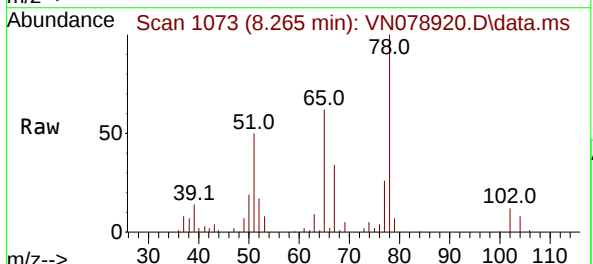
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

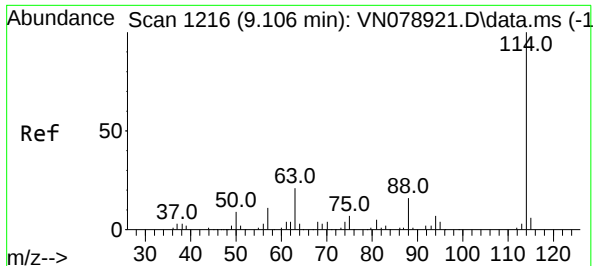
Tgt Ion: 56 Resp: 207249
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 86.8 70.1 105.1



#27
1,2-Dichloroethane-d4
Concen: 11913.114 ug/l
RT: 8.265 min Scan# 1073
Delta R.T. -0.318 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion: 65 Resp: 109061
Ion Ratio Lower Upper
65 100
67 54.2 40.7 61.1





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.865 min Scan# 1175

Delta R.T. -0.241 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

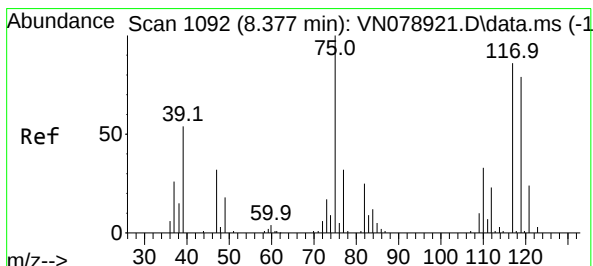
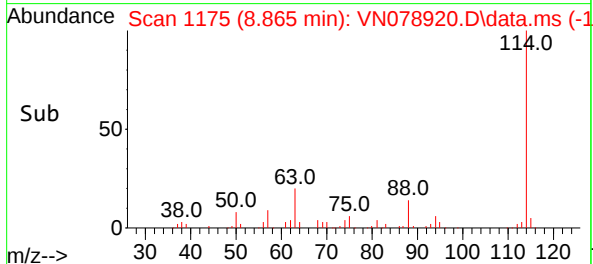
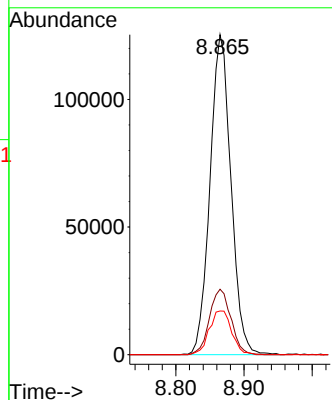
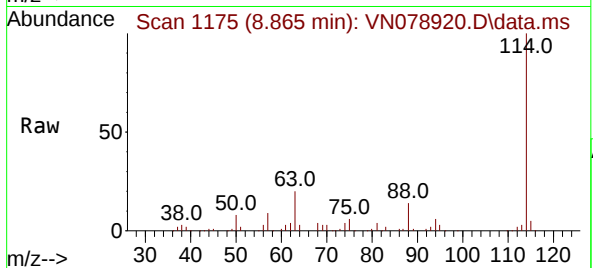
Tgt Ion:114 Resp: 268318

Ion Ratio Lower Upper

114 100

63 20.9 17.4 26.2

88 14.6 12.0 18.0



#29

1,1-Dichloropropene

Concen: 51.348 ug/l

RT: 8.024 min Scan# 1032

Delta R.T. -0.353 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

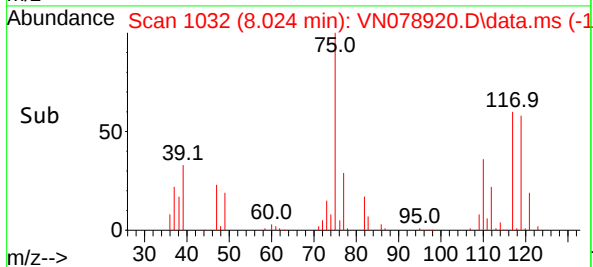
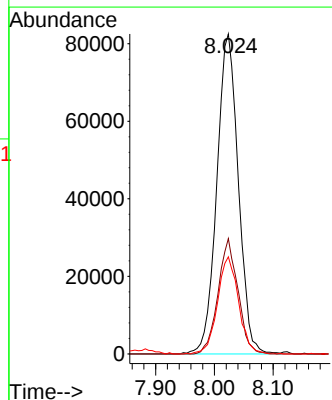
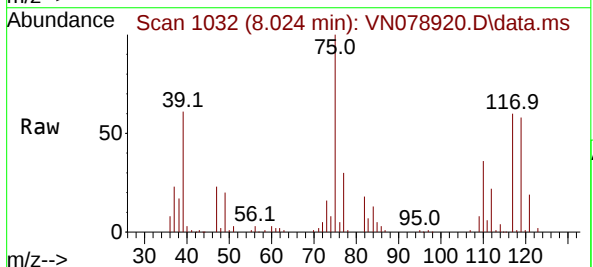
Tgt Ion: 75 Resp: 209587

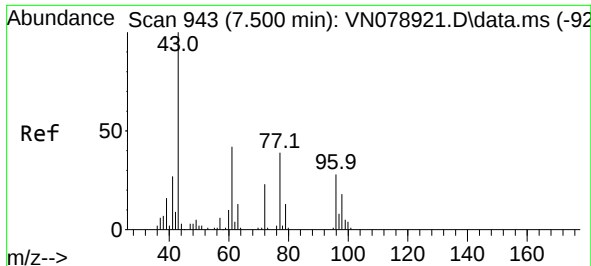
Ion Ratio Lower Upper

75 100

110 33.3 0.0 65.8

77 29.7 0.0 60.4





#31

2,2-Dichloropropane

Concen: 0.302 ug/l

RT: 7.865 min Scan# 1005

Delta R.T. 0.365 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

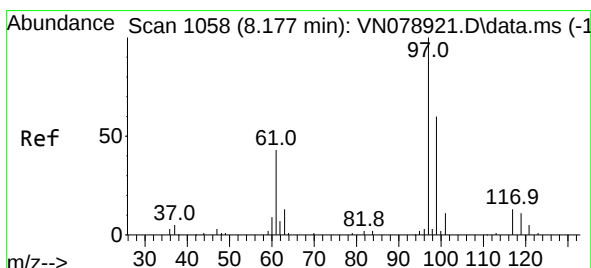
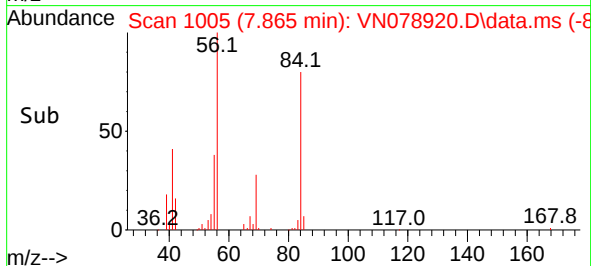
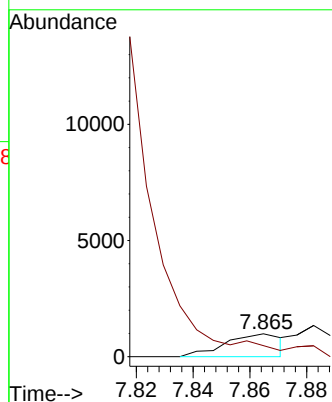
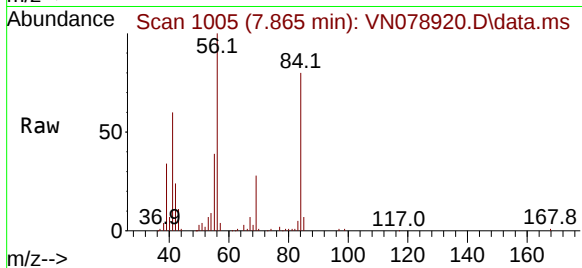
VSTDIC050

Tgt Ion: 77 Resp: 1362

Ion Ratio Lower Upper

77 100

97 17592.5 17.6 26.4#



#32

1,1,1-Trichloroethane

Concen: 49.169 ug/l

RT: 7.782 min Scan# 991

Delta R.T. -0.394 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

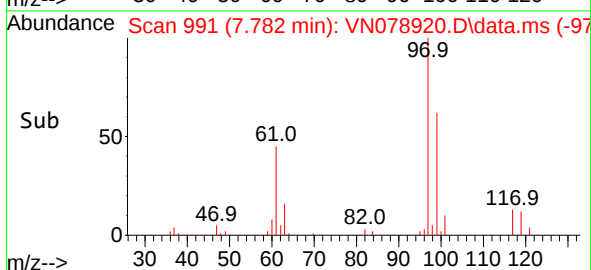
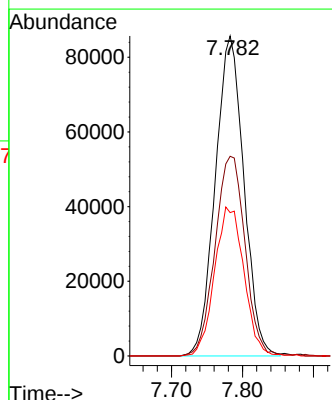
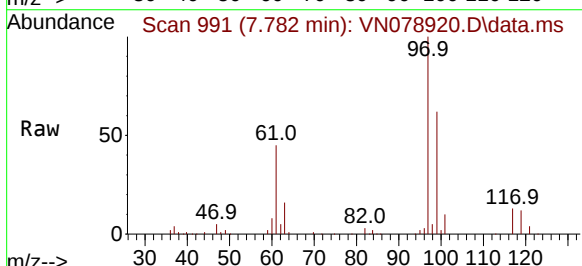
Tgt Ion: 97 Resp: 239610

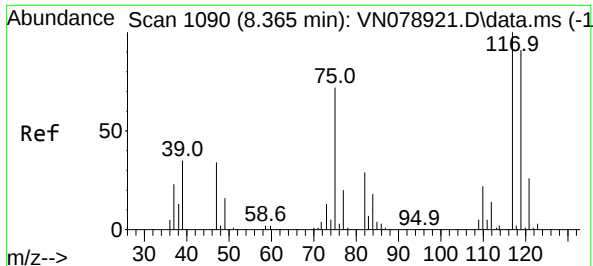
Ion Ratio Lower Upper

97 100

99 65.0 52.0 78.0

61 47.7 37.0 55.6

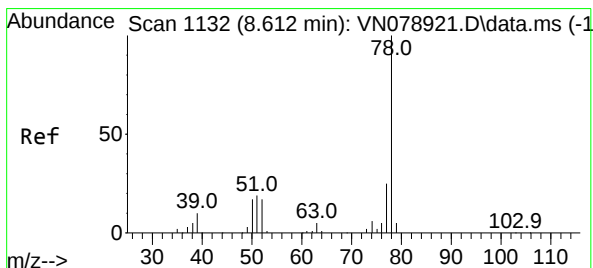
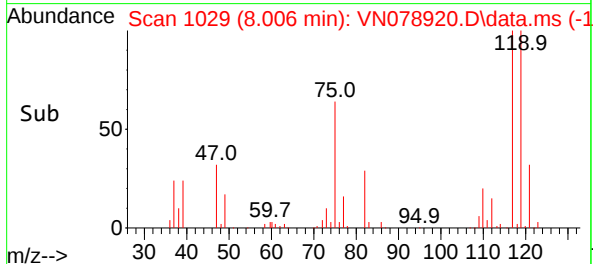
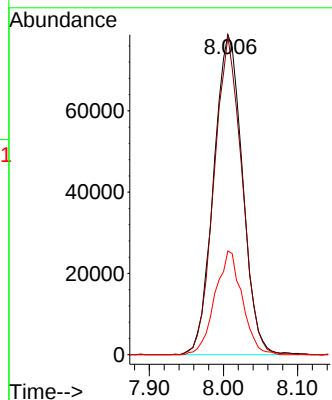
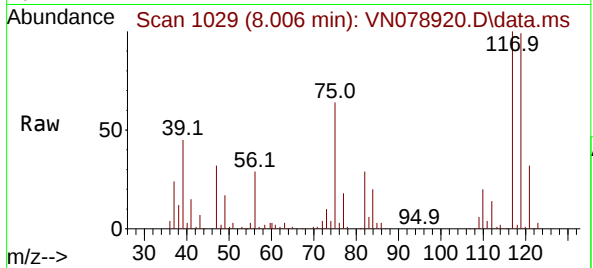




#33
Carbon Tetrachloride
Concen: 50.382 ug/l
RT: 8.006 min Scan# 1077
Delta R.T. -0.359 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

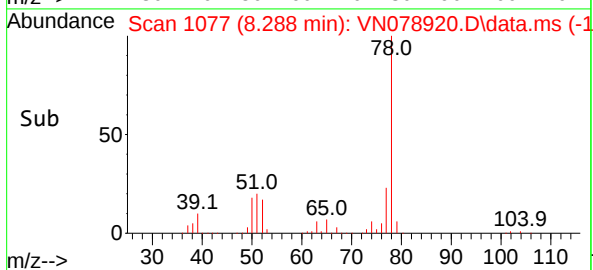
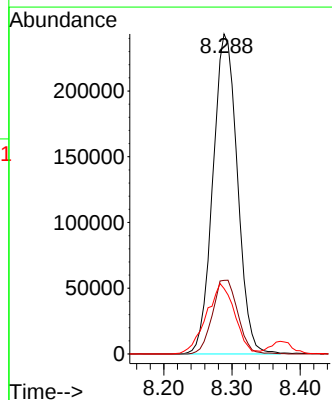
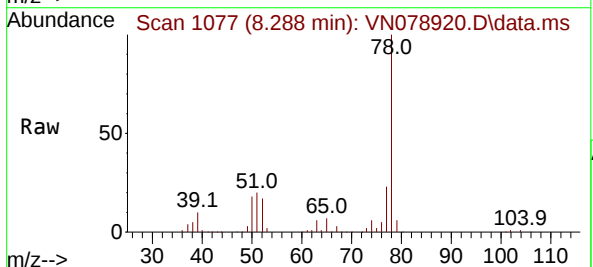
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

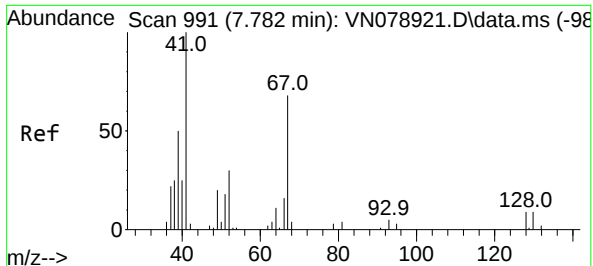
Tgt Ion:117 Resp: 212661
Ion Ratio Lower Upper
117 100
119 99.5 72.6 108.8
121 32.4 20.7 31.1#



#34
Benzene
Concen: 49.776 ug/l
RT: 8.288 min Scan# 1077
Delta R.T. -0.324 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion: 78 Resp: 608851
Ion Ratio Lower Upper
78 100
77 23.0 19.9 29.9
51 20.2 14.8 22.2



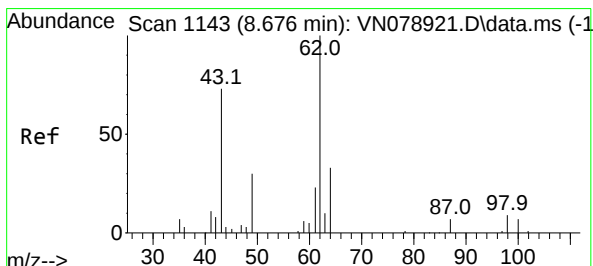
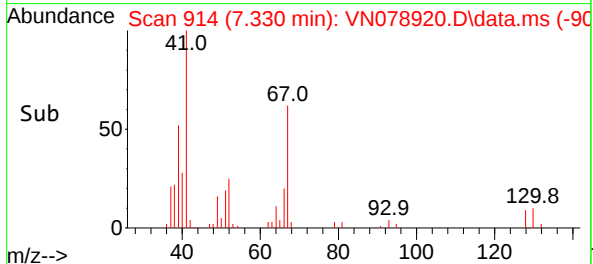
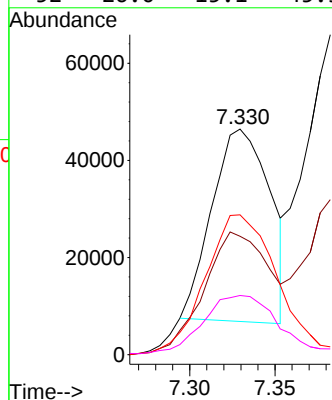
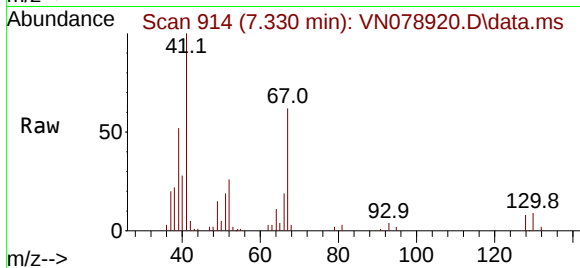


#35
Methacrylonitrile
Concen: 36.767 ug/l
RT: 7.330 min Scan# 914
Delta R.T. -0.453 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion: 41 Resp: 93637

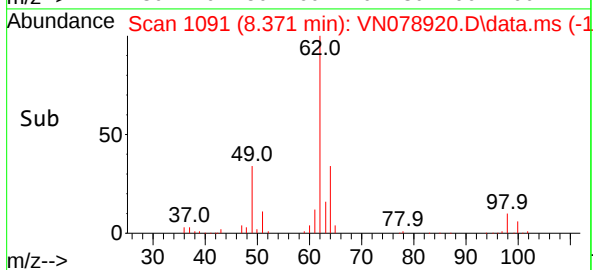
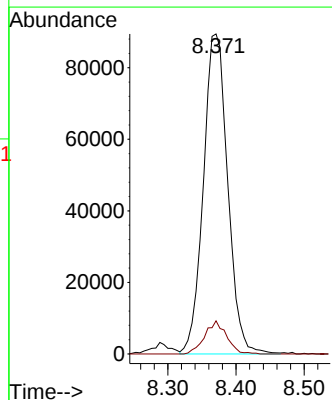
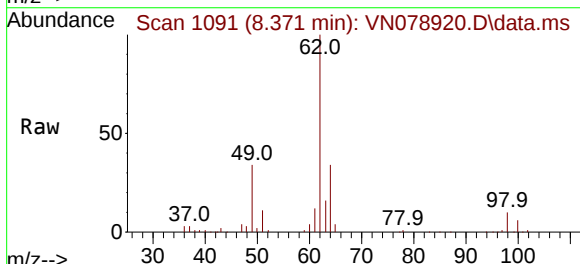
Ion	Ratio	Lower	Upper
41	100		
39	49.8	25.0	75.0
67	62.2	34.0	102.0
52	26.0	15.1	45.3

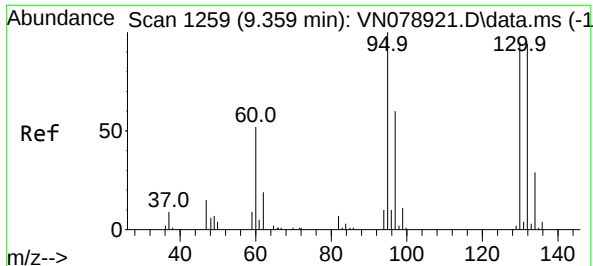


#36
1,2-Dichloroethane
Concen: 48.612 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.306 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion: 62 Resp: 222669

Ion	Ratio	Lower	Upper
62	100		
98	9.1	8.1	12.1





#37

Trichloroethene

Concen: 48.504 ug/l

RT: 9.135 min Scan# 11

Delta R.T. -0.224 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

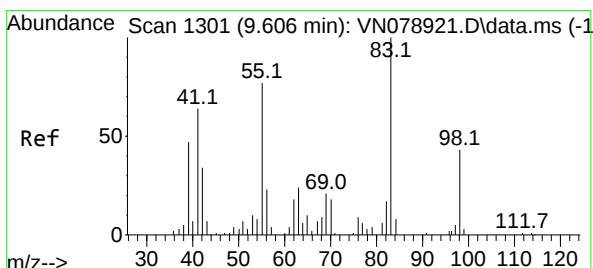
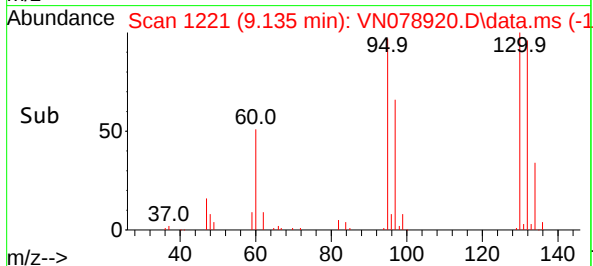
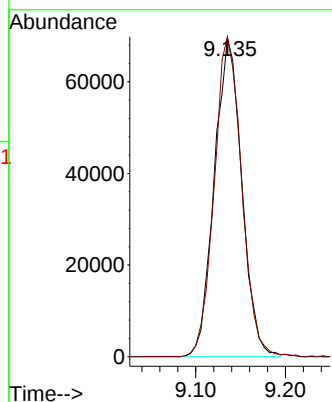
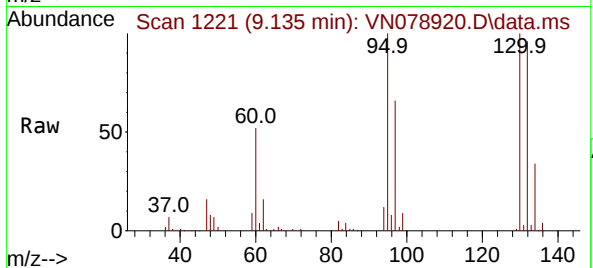
VSTDIC050

Tgt Ion:130 Resp: 147681

Ion Ratio Lower Upper

130 100

95 100.4 84.6 127.0



#38

Methylcyclohexane

Concen: 52.954 ug/l

RT: 9.406 min Scan# 1267

Delta R.T. -0.200 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

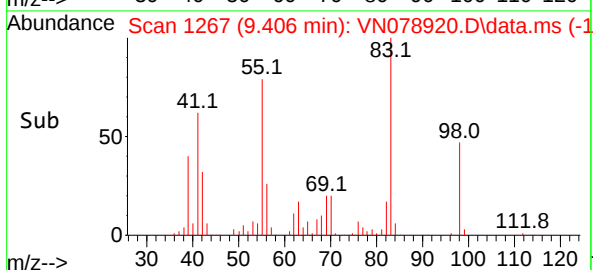
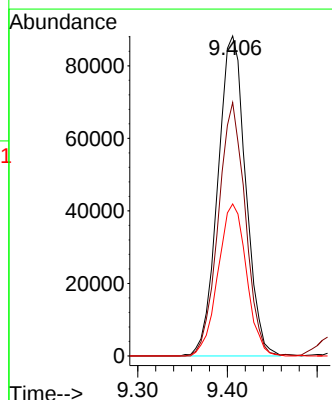
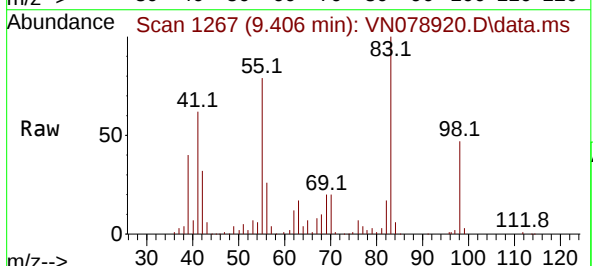
Tgt Ion: 83 Resp: 190290

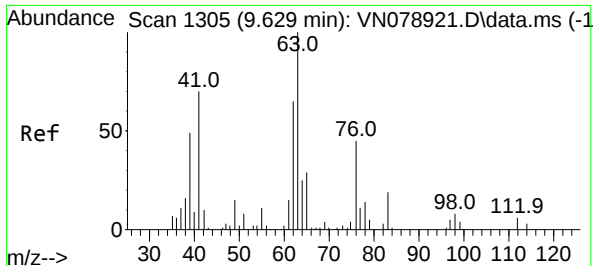
Ion Ratio Lower Upper

83 100

55 76.7 40.2 120.6

98 48.5 24.1 72.3





#39

1,2-Dichloropropane

Concen: 49.491 ug/l

RT: 9.429 min Scan# 1305

Delta R.T. -0.200 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

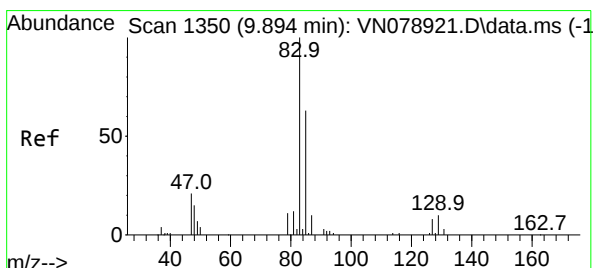
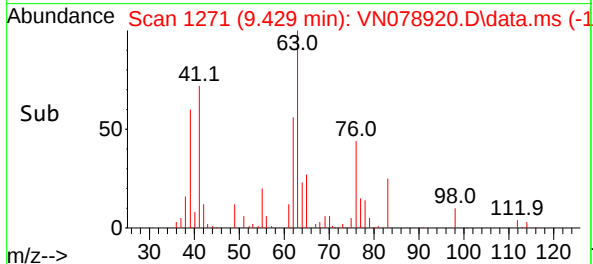
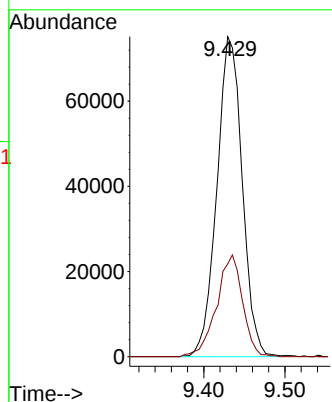
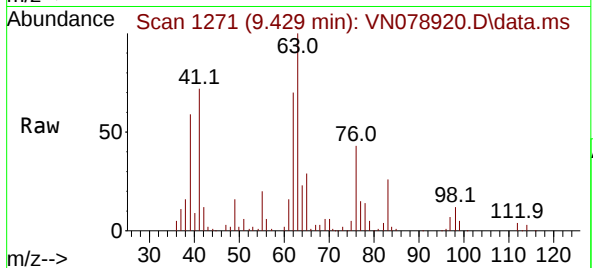
VSTDIC050

Tgt Ion: 63 Resp: 163062

Ion Ratio Lower Upper

63 100

65 29.0 23.5 35.3



#41

Bromodichloromethane

Concen: 48.833 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. -0.165 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

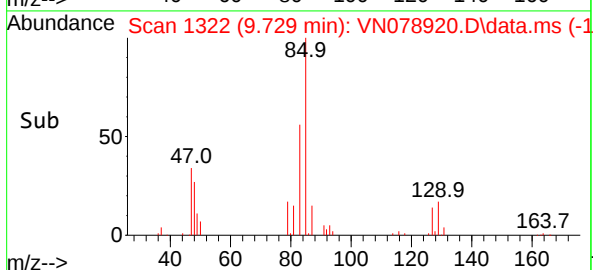
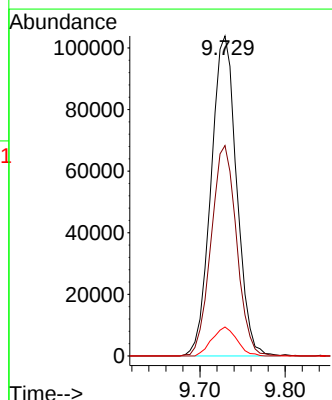
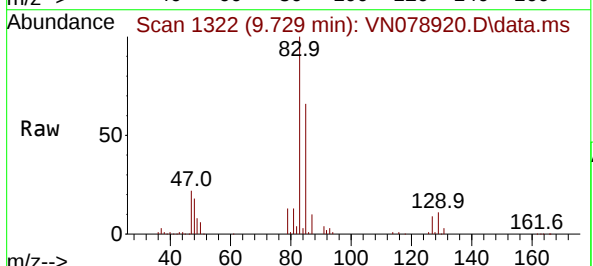
Tgt Ion: 83 Resp: 216888

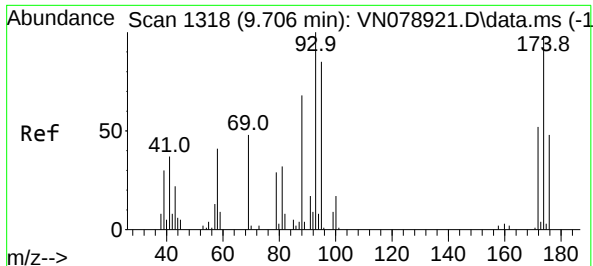
Ion Ratio Lower Upper

83 100

85 65.8 50.2 75.2

127 9.0 6.2 9.4





#45

1,4-Dioxane

Concen: 1062.451 ug/l

RT: 9.523 min Scan# 1287

Delta R.T. -0.182 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

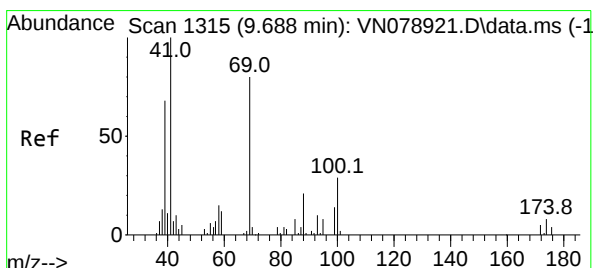
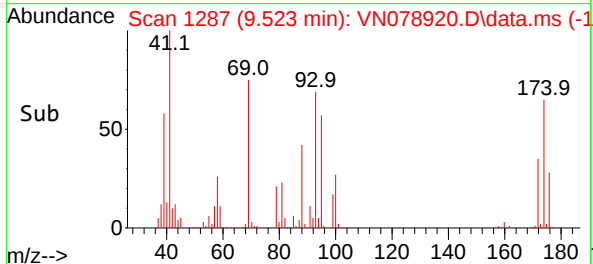
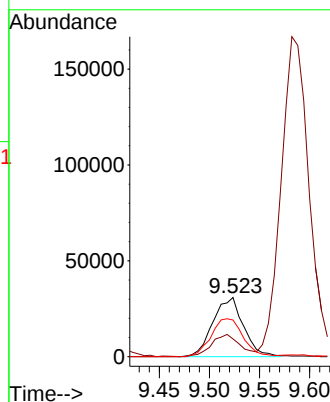
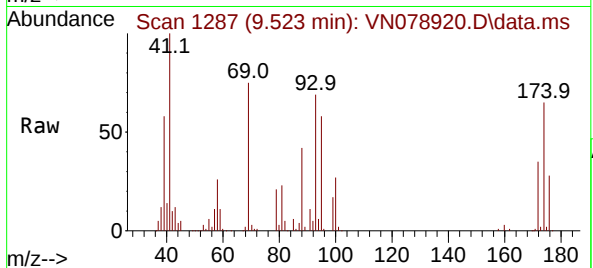
Tgt Ion: 88 Resp: 65305

Ion Ratio Lower Upper

88 100

43 35.9 28.1 42.1

58 67.2 57.0 85.4



#46

Methyl methacrylate

Concen: 52.047 ug/l

RT: 9.512 min Scan# 1285

Delta R.T. -0.176 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

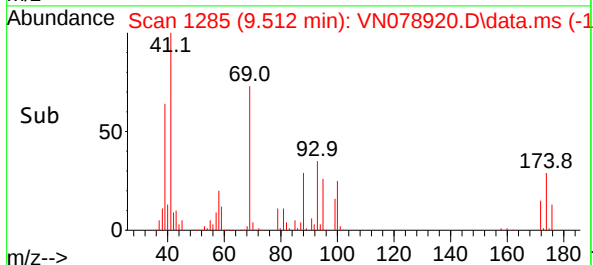
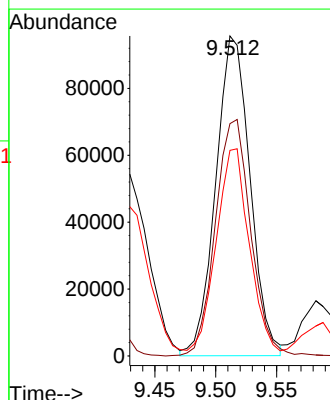
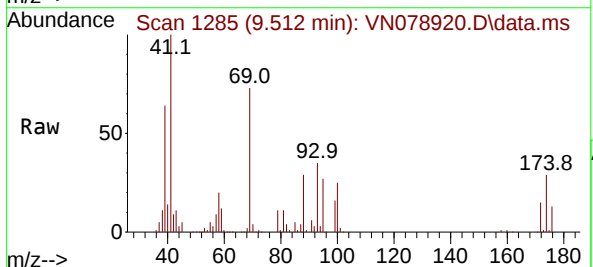
Tgt Ion: 41 Resp: 187306

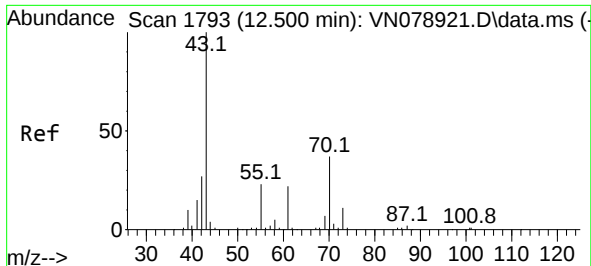
Ion Ratio Lower Upper

41 100

69 73.5 38.5 115.5

39 63.7 35.9 107.8





#47

n-amy1 Acetate

Concen: 54.680 ug/l

RT: 12.476 min Scan# 11

Delta R.T. -0.024 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

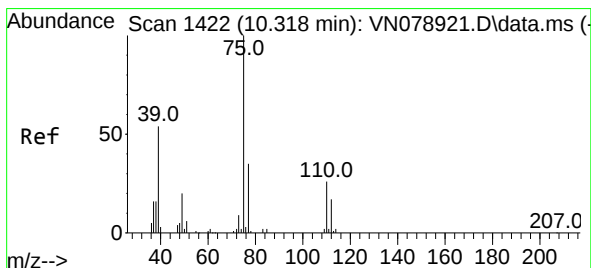
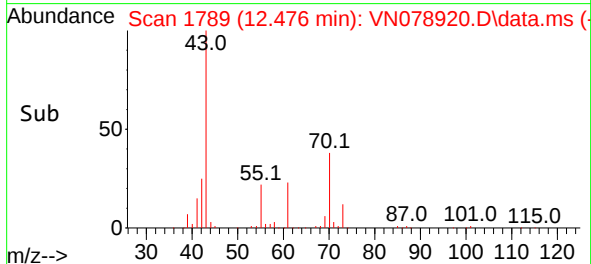
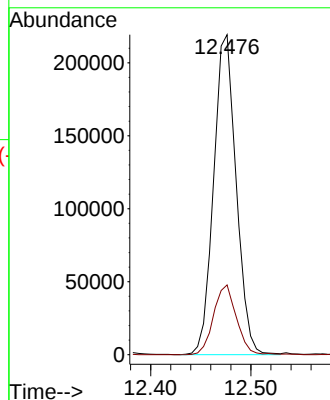
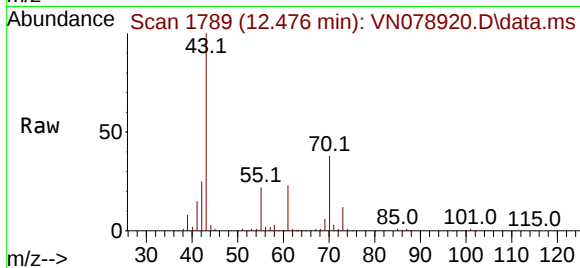
VSTDIC050

Tgt Ion: 43 Resp: 342734

Ion Ratio Lower Upper

43 100

55 21.9 17.5 26.3



#49

cis-1,3-Dichloropropene

Concen: 51.905 ug/l

RT: 10.188 min Scan# 1400

Delta R.T. -0.129 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

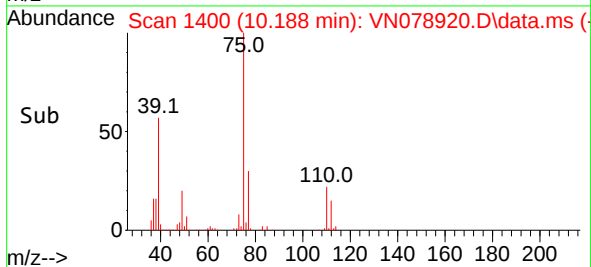
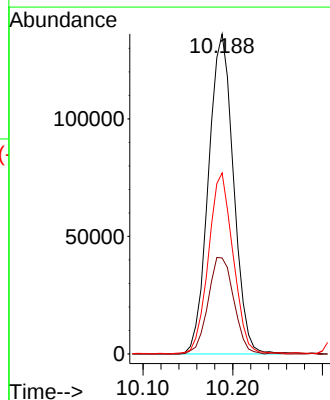
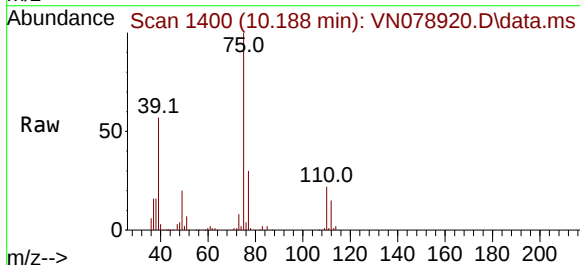
Tgt Ion: 75 Resp: 263277

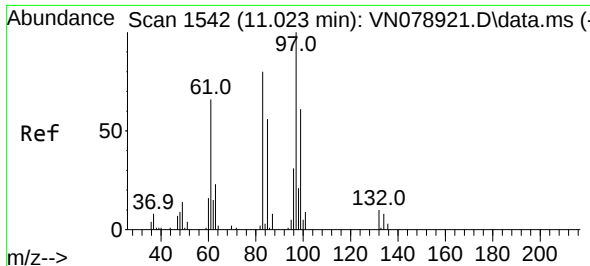
Ion Ratio Lower Upper

75 100

77 30.0 27.8 41.8

39 56.3 43.5 65.3

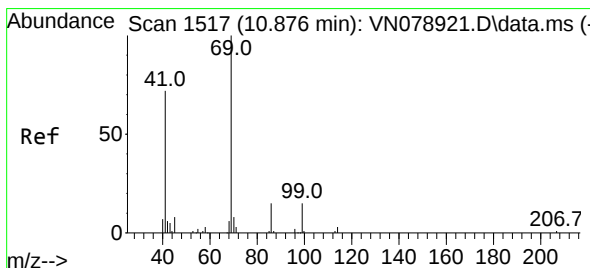
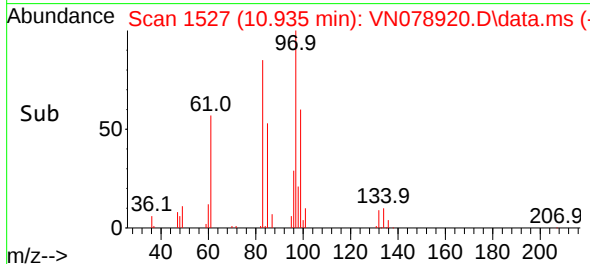
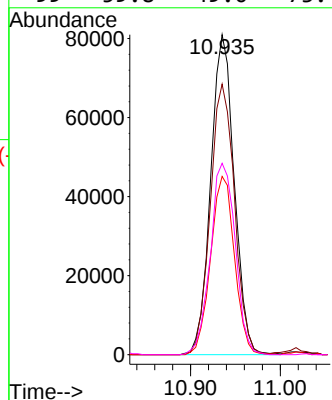
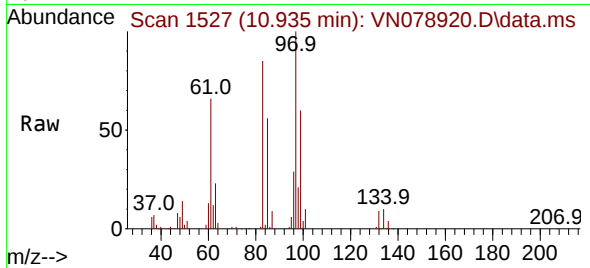




#50
1,1,2-Trichloroethane
Concen: 49.357 ug/l
RT: 10.935 min Scan# 11
Delta R.T. -0.088 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

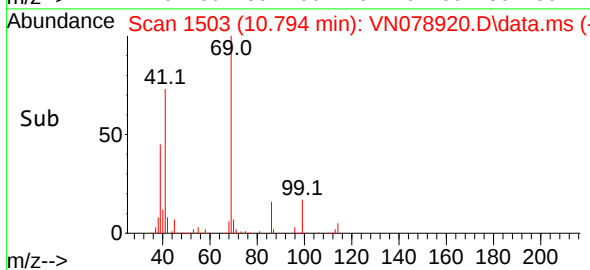
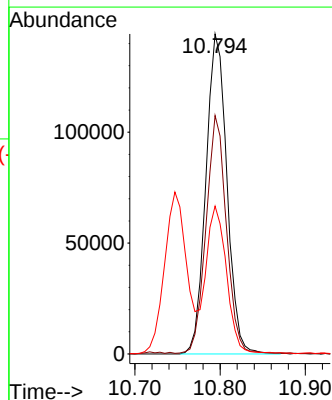
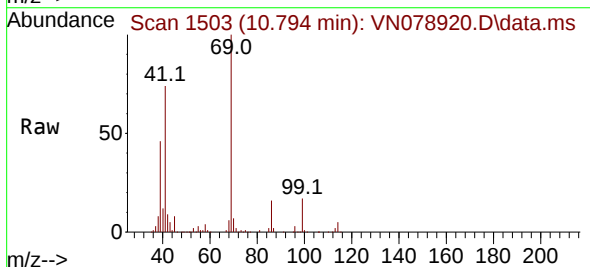
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

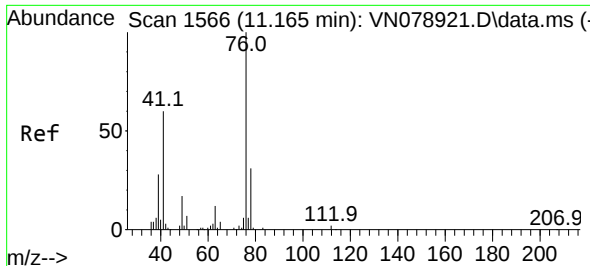
Tgt Ion:	97	Resp:	147308
Ion	Ratio	Lower	Upper
97	100		
83	84.5	63.7	95.5
85	55.7	44.9	67.3
99	59.8	49.0	73.4



#51
Ethyl methacrylate
Concen: 53.716 ug/l
RT: 10.794 min Scan# 1503
Delta R.T. -0.082 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion:	69	Resp:	248135
Ion	Ratio	Lower	Upper
69	100		
41	74.2	35.9	107.8
39	45.8	23.5	70.5





#52

1,3-Dichloropropane

Concen: 49.485 ug/l

RT: 11.088 min Scan# 1553

Delta R.T. -0.076 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

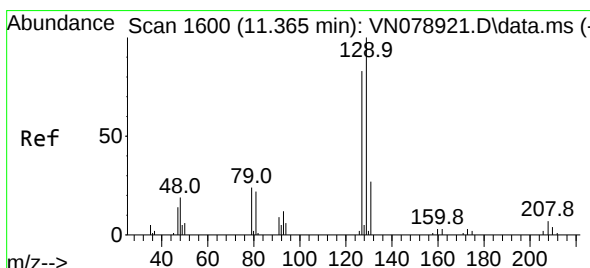
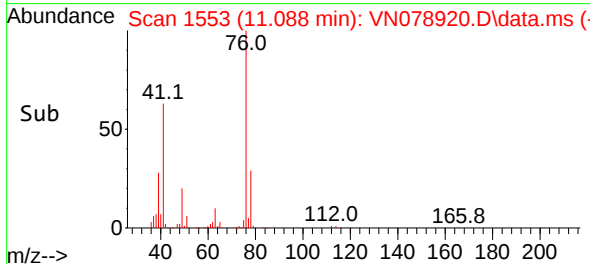
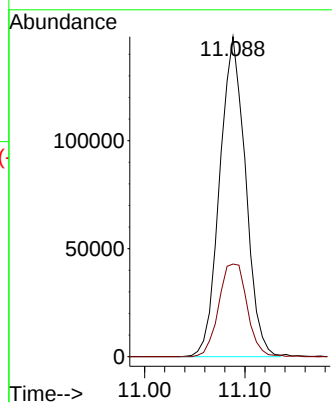
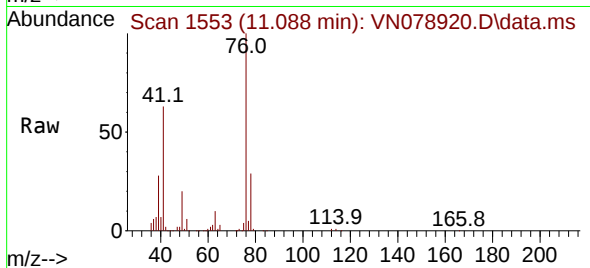
VSTDIC050

Tgt Ion: 76 Resp: 264531

Ion Ratio Lower Upper

76 100

78 31.7 0.0 64.6



#53

Dibromochloromethane

Concen: 50.115 ug/l

RT: 11.288 min Scan# 1587

Delta R.T. -0.076 min

Lab File: VN078920.D

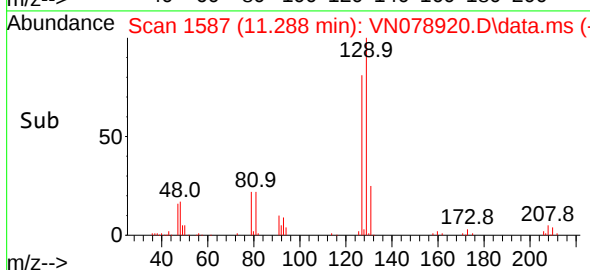
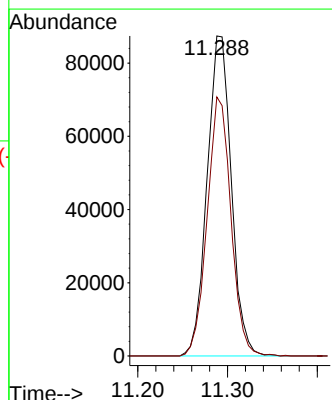
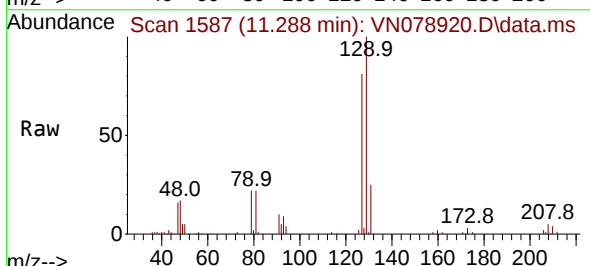
Acq: 17 Aug 2023 12:39

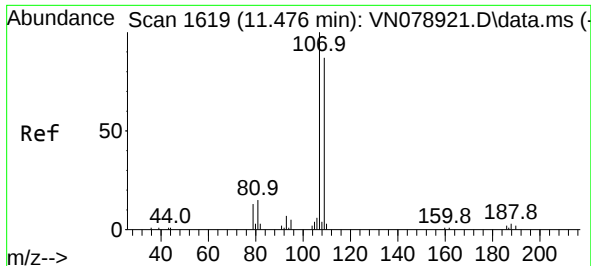
Tgt Ion: 129 Resp: 163701

Ion Ratio Lower Upper

129 100

127 79.5 40.1 120.2

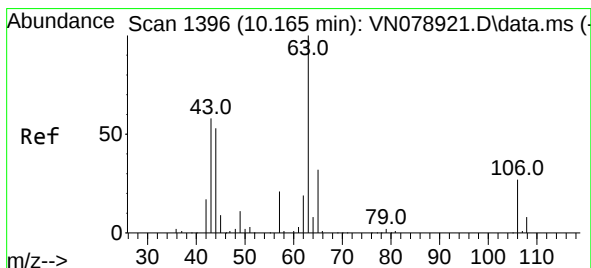
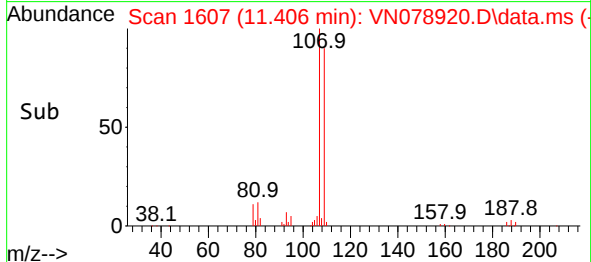
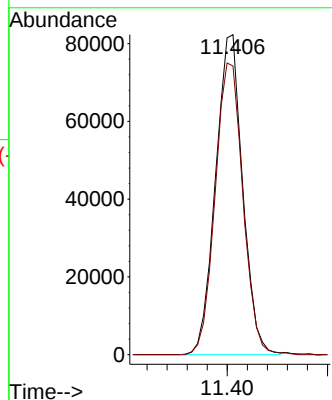
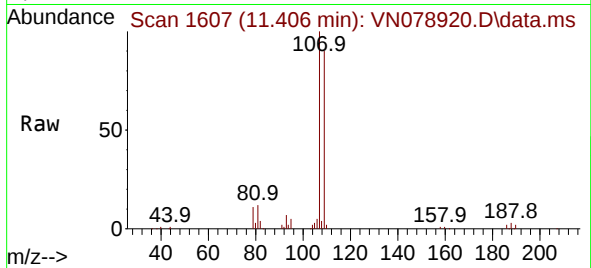




#54
1,2-Dibromoethane
Concen: 50.272 ug/l
RT: 11.406 min Scan# 1
Delta R.T. -0.071 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

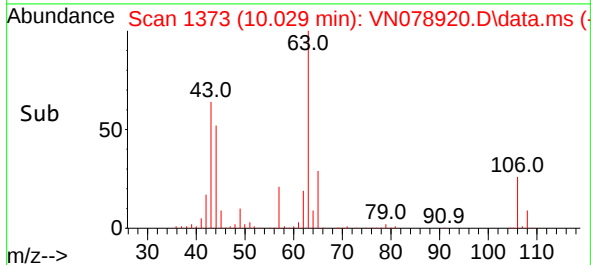
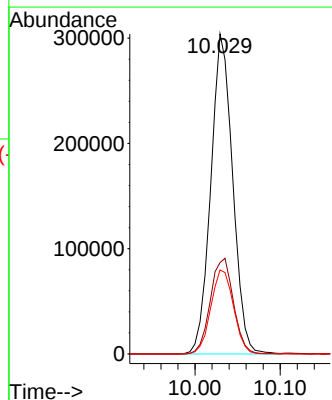
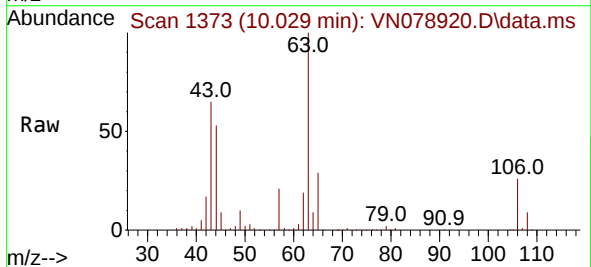
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

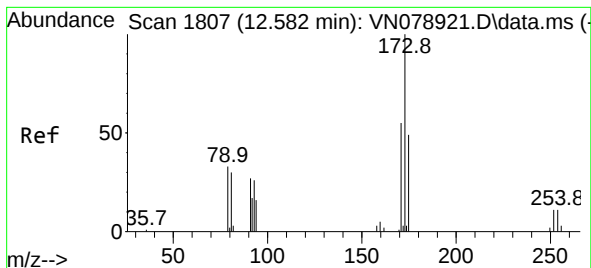
Tgt Ion:107 Resp: 154036
Ion Ratio Lower Upper
107 100
109 93.5 71.7 107.5



#55
2-Chloroethyl vinyl ether
Concen: 253.884 ug/l
RT: 10.029 min Scan# 1373
Delta R.T. -0.135 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion: 63 Resp: 542075
Ion Ratio Lower Upper
63 100
65 31.5 25.4 38.2
106 27.2 22.3 33.5





#56

Bromoform

Concen: 51.608 ug/l

RT: 12.547 min Scan# 11

Delta R.T. -0.035 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

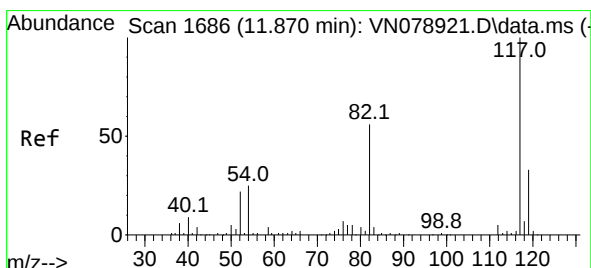
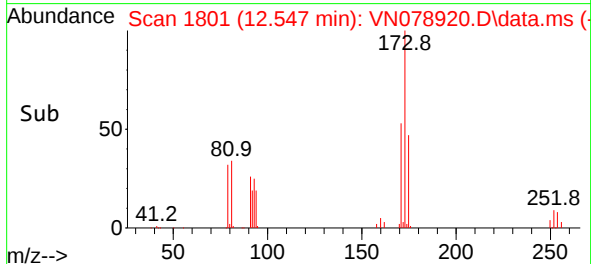
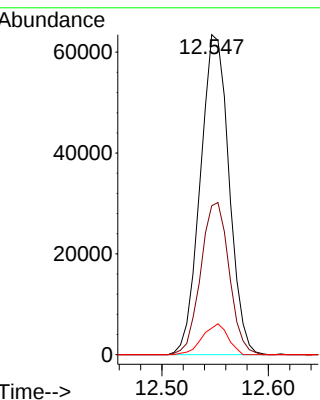
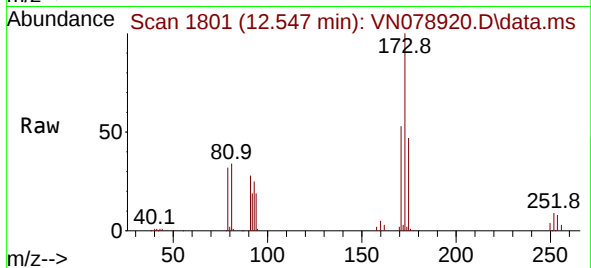
Tgt Ion:173 Resp: 118939

Ion Ratio Lower Upper

173 100

175 47.0 38.8 58.2

254 8.6 7.6 11.4



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.817 min Scan# 1677

Delta R.T. -0.053 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

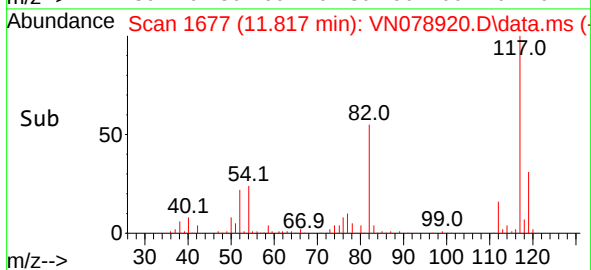
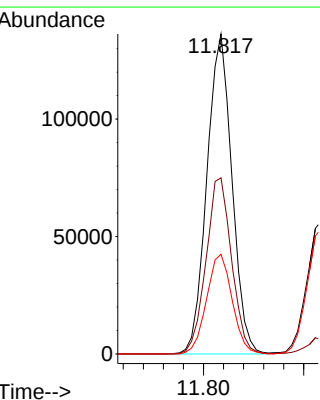
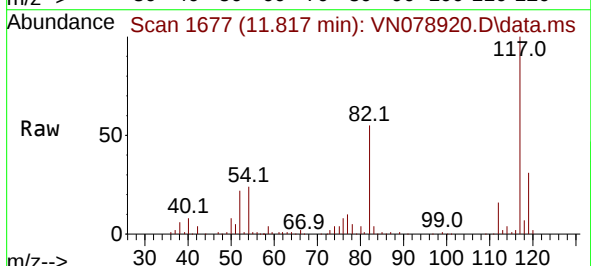
Tgt Ion:117 Resp: 236428

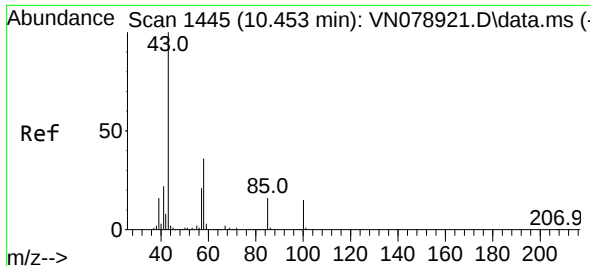
Ion Ratio Lower Upper

117 100

82 56.2 43.4 65.0

119 31.8 25.5 38.3



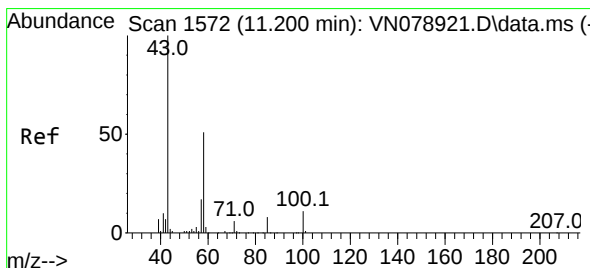
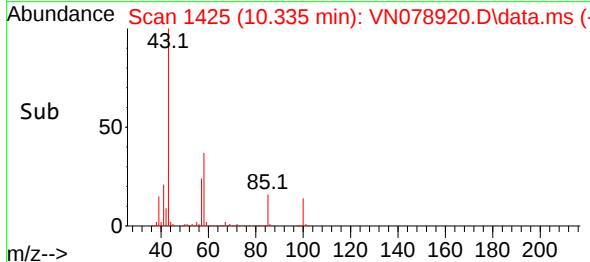
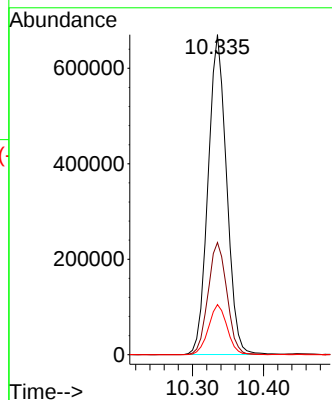
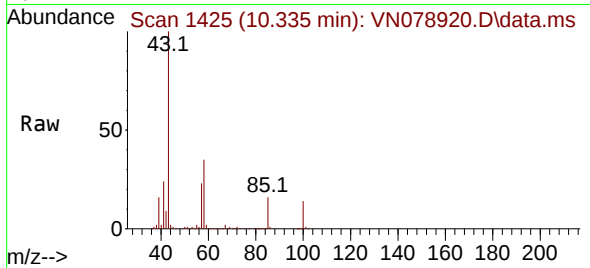


#58
4-Methyl-2-Pentanone
Concen: 258.779 ug/l
RT: 10.335 min Scan# 1445
Delta R.T. -0.118 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 43 Resp: 1213882

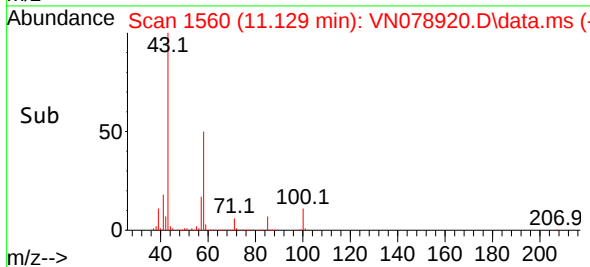
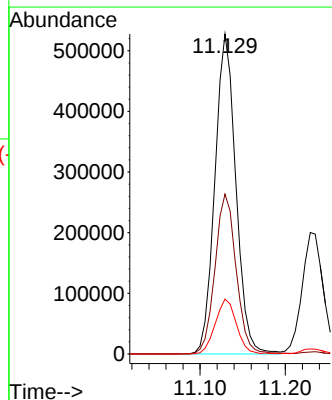
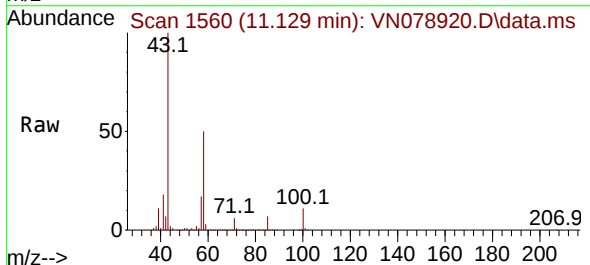
Ion	Ratio	Lower	Upper
43	100		
58	35.7	28.8	43.2
85	15.7	12.7	19.1

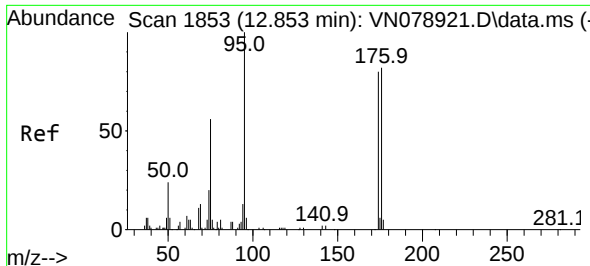


#59
2-Hexanone
Concen: 262.357 ug/l
RT: 11.129 min Scan# 1560
Delta R.T. -0.071 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion: 43 Resp: 901688

Ion	Ratio	Lower	Upper
43	100		
58	50.5	40.6	60.8
57	17.3	13.6	20.4

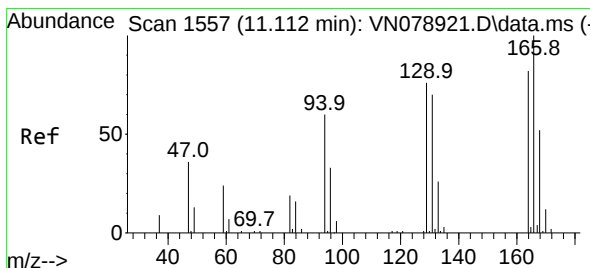
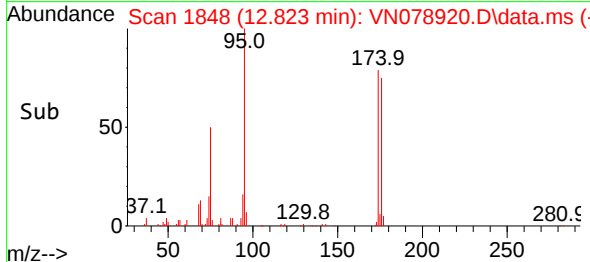
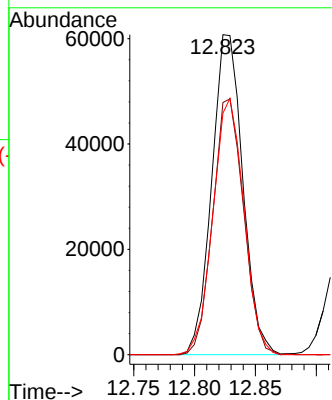
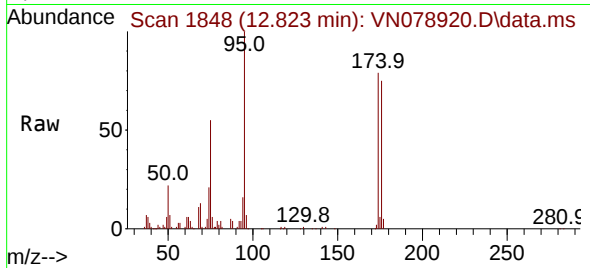




#60
4-Bromofluorobenzene
Concen: 31.235 ug/l
RT: 12.823 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

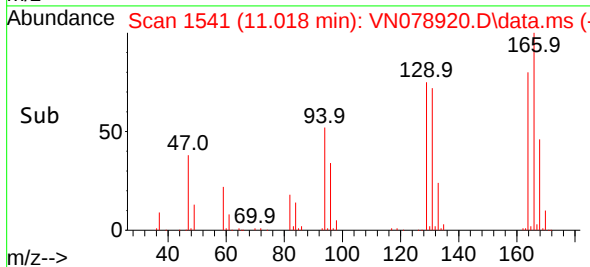
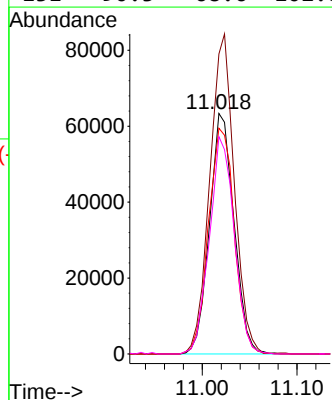
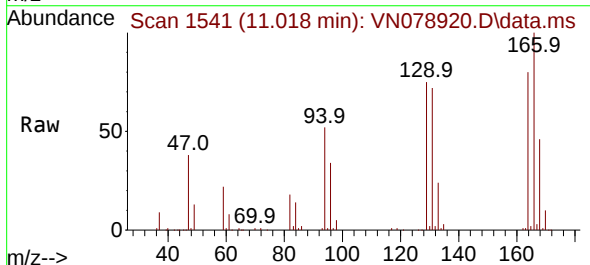
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

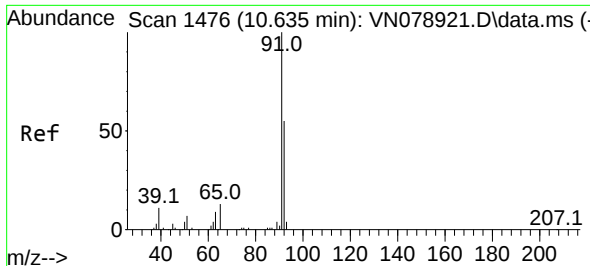
Tgt Ion: 95 Resp: 107724
Ion Ratio Lower Upper
95 100
174 79.2 64.8 97.2
176 79.8 63.0 94.6



#61
Tetrachloroethene
Concen: 49.736 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. -0.094 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion:164 Resp: 113856
Ion Ratio Lower Upper
164 100
166 124.7 97.6 146.4
129 93.9 74.1 111.1
131 90.3 68.6 102.8

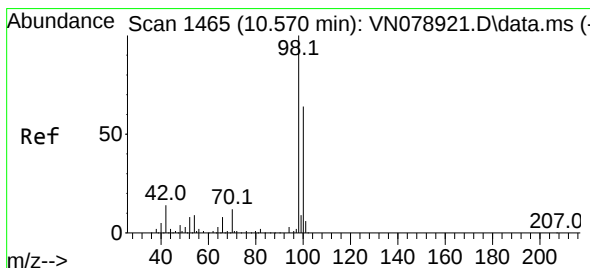
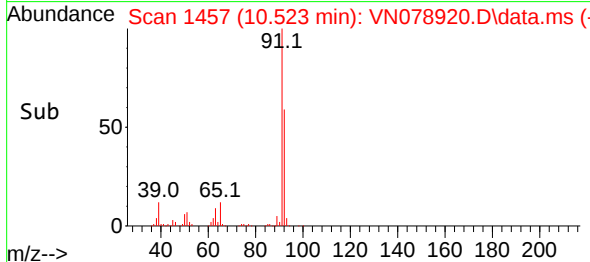
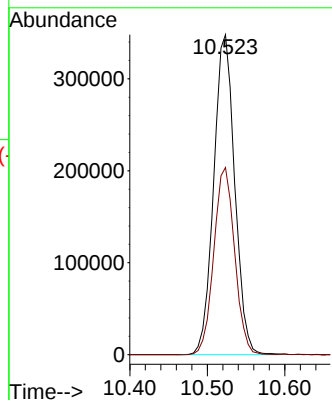
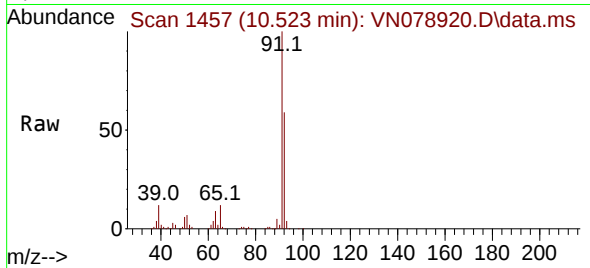




#62
Toluene
Concen: 50.799 ug/l
RT: 10.523 min Scan# 1476
Delta R.T. -0.112 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

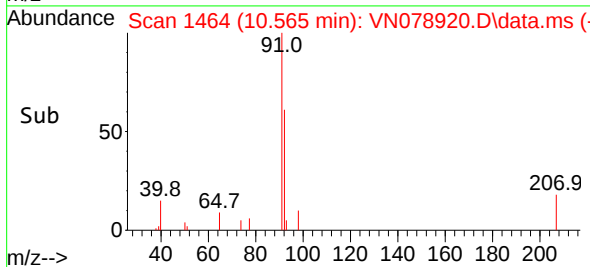
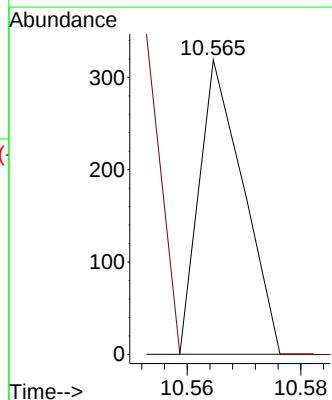
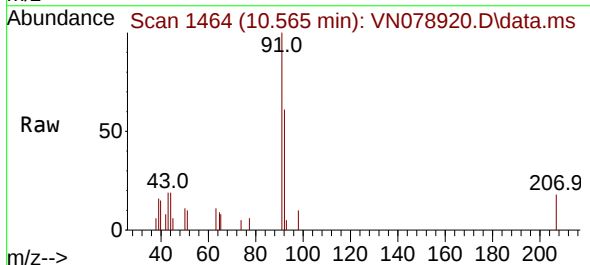
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

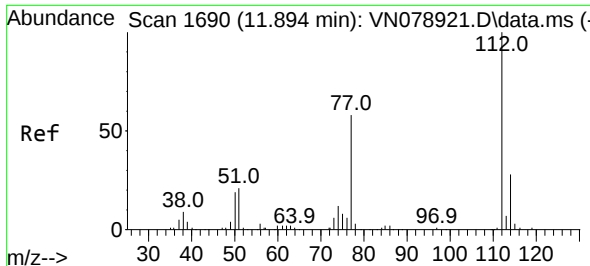
Tgt Ion: 91 Resp: 655706
Ion Ratio Lower Upper
91 100
92 58.0 44.7 67.1



#63
Toluene-d8
Concen: 0.016 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion: 98 Resp: 172
Ion Ratio Lower Upper
98 100
100 70.9 51.1 76.7

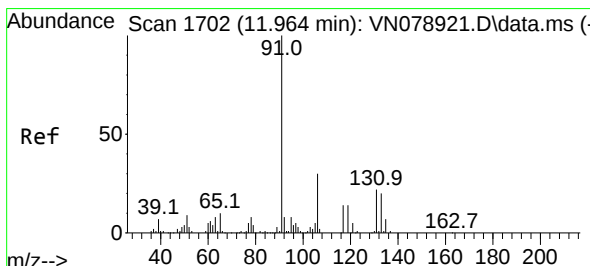
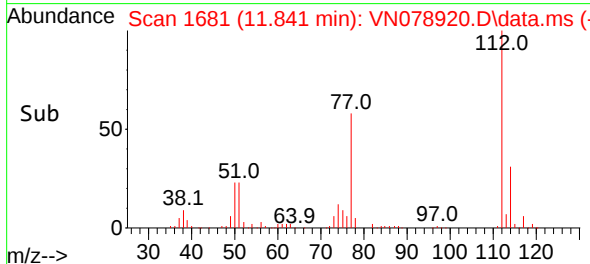
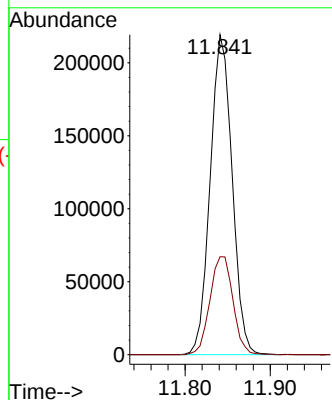
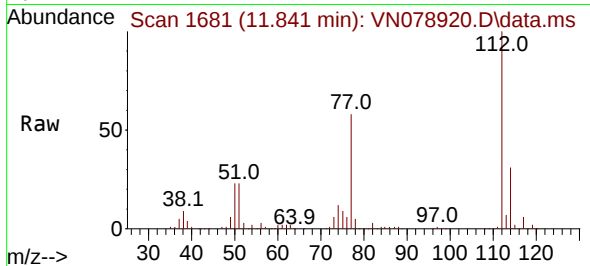




#64
Chlorobenzene
Concen: 50.487 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.053 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

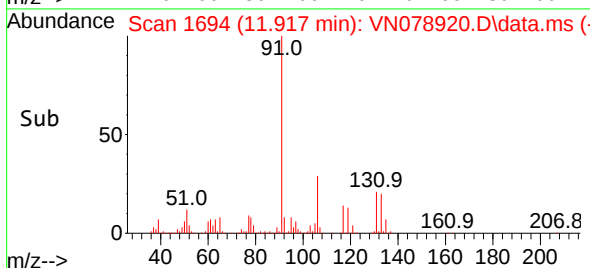
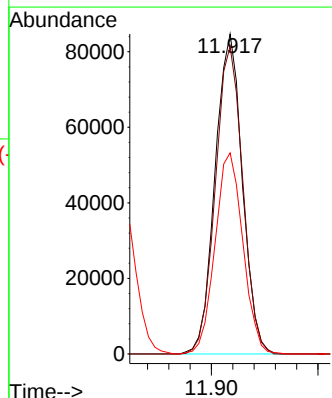
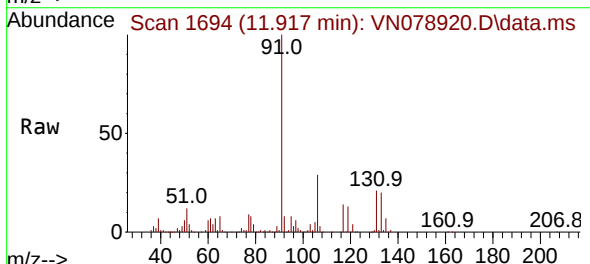
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

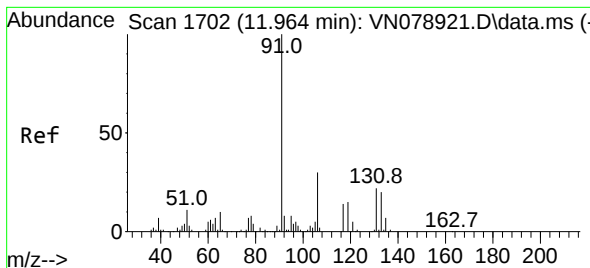
Tgt Ion:112 Resp: 391826
Ion Ratio Lower Upper
112 100
114 30.6 22.4 33.6



#65
1,1,1,2-Tetrachloroethane
Concen: 50.631 ug/l
RT: 11.917 min Scan# 1694
Delta R.T. -0.047 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion:131 Resp: 150247
Ion Ratio Lower Upper
131 100
133 96.5 0.0 184.8
119 64.3 0.0 133.4





#66

Ethyl Benzene

Concen: 52.148 ug/l

RT: 11.917 min Scan# 1

Delta R.T. -0.047 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

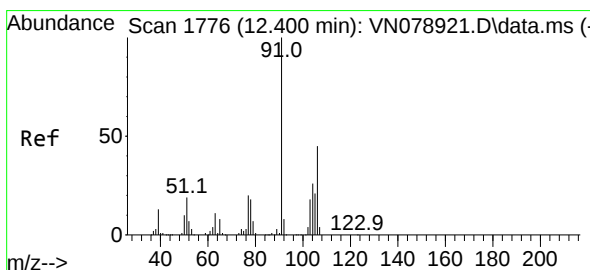
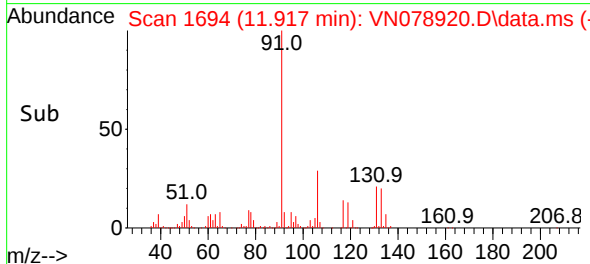
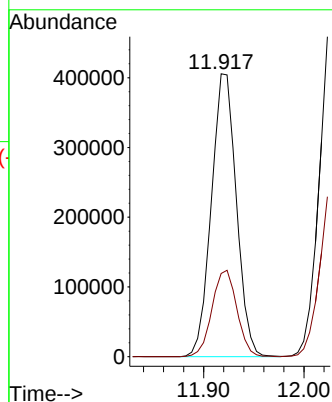
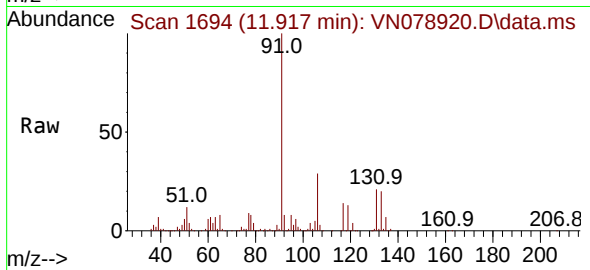
VSTDIC050

Tgt Ion: 91 Resp: 704088

Ion Ratio Lower Upper

91 100

106 29.4 24.1 36.1



#68

o-Xylene

Concen: 52.340 ug/l

RT: 12.370 min Scan# 1771

Delta R.T. -0.029 min

Lab File: VN078920.D

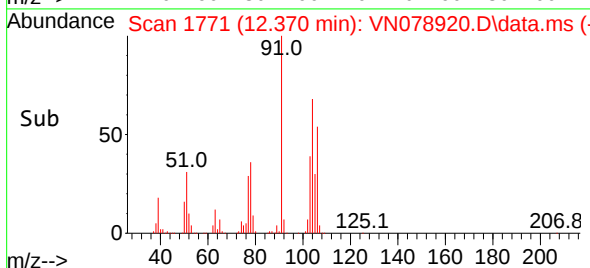
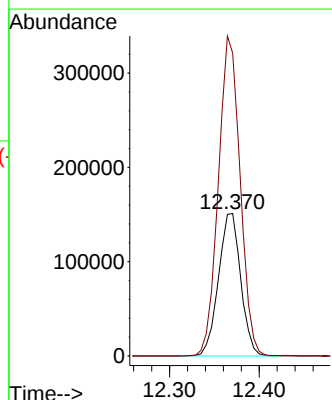
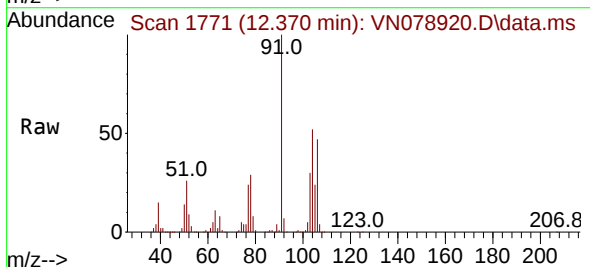
Acq: 17 Aug 2023 12:39

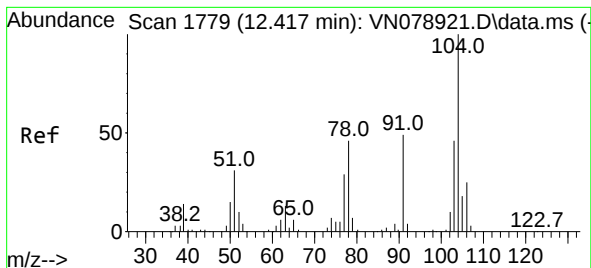
Tgt Ion:106 Resp: 259797

Ion Ratio Lower Upper

106 100

91 220.1 109.0 327.0





#69

Styrene

Concen: 53.412 ug/l

RT: 12.382 min Scan# 1773

Delta R.T. -0.035 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

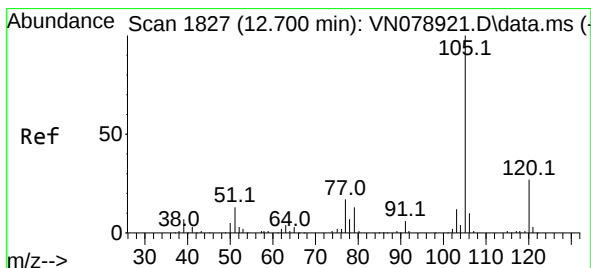
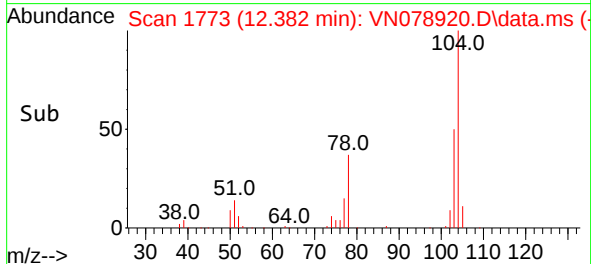
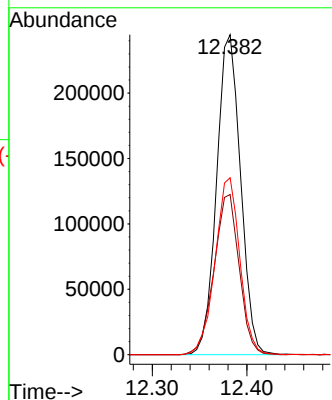
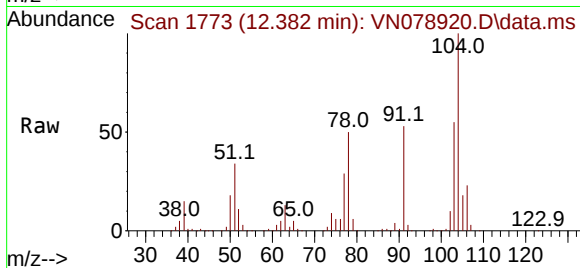
Tgt Ion:104 Resp: 430796

Ion Ratio Lower Upper

104 100

78 52.5 40.2 60.4

103 57.0 43.2 64.8



#70

Isopropylbenzene

Concen: 53.777 ug/l

RT: 12.670 min Scan# 1822

Delta R.T. -0.029 min

Lab File: VN078920.D

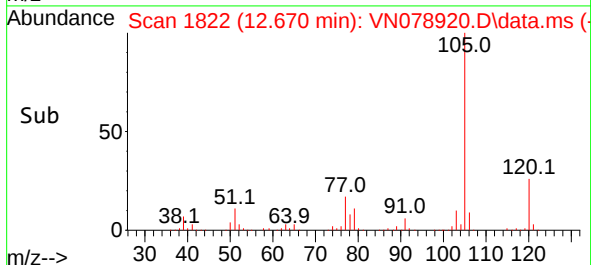
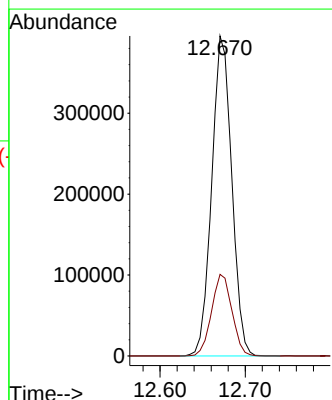
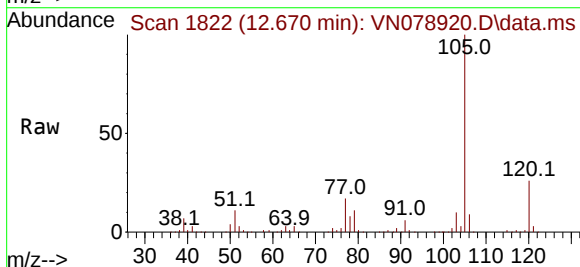
Acq: 17 Aug 2023 12:39

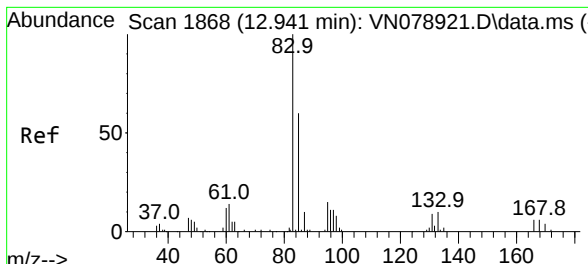
Tgt Ion:105 Resp: 646775

Ion Ratio Lower Upper

105 100

120 25.9 19.1 35.5

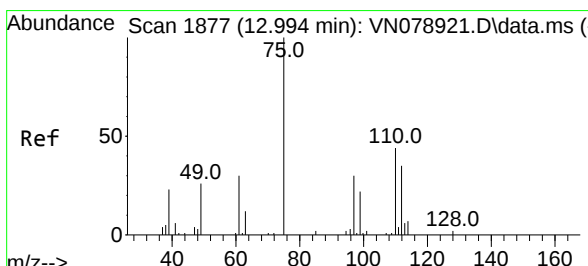
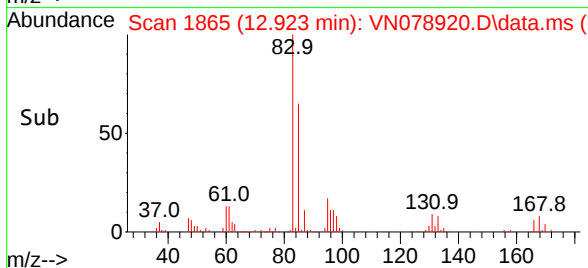
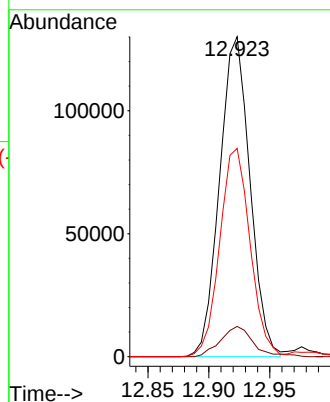
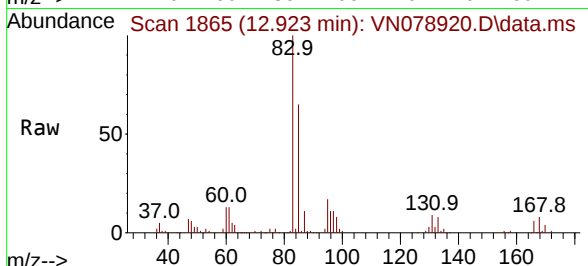




#71
 1,1,2,2-Tetrachloroethane
 Concen: 50.126 ug/l
 RT: 12.923 min Scan# 1865
 Delta R.T. -0.018 min
 Lab File: VN078920.D
 Acq: 17 Aug 2023 12:39

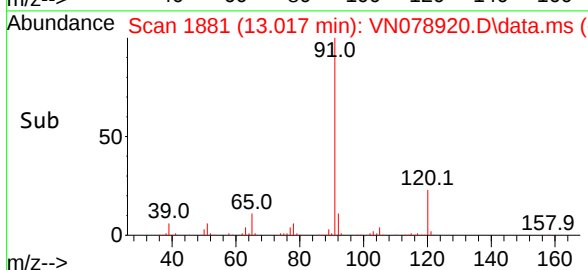
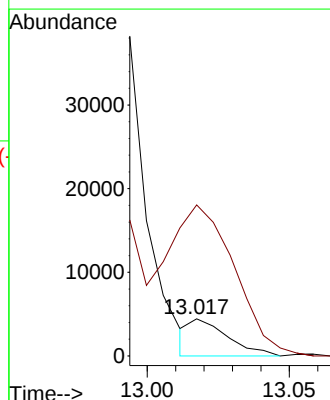
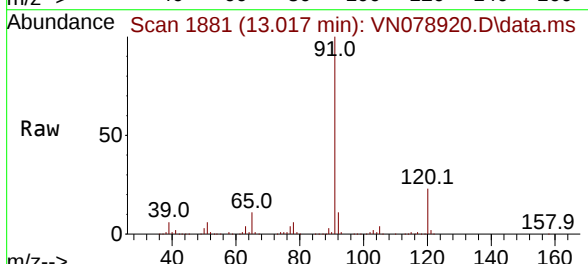
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

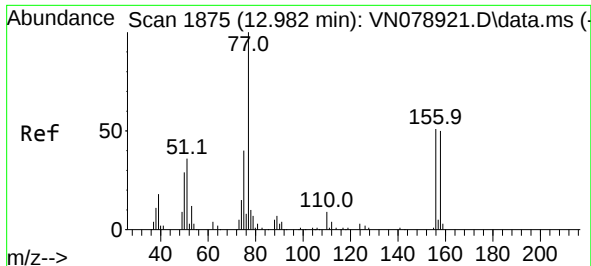
Tgt Ion: 83 Resp: 225993
 Ion Ratio Lower Upper
 83 100
 131 10.2 4.7 14.0
 85 65.0 31.9 95.7



#72
 1,2,3-Trichloropropane
 Concen: 1.045 ug/l
 RT: 13.017 min Scan# 1881
 Delta R.T. 0.024 min
 Lab File: VN078920.D
 Acq: 17 Aug 2023 12:39

Tgt Ion: 75 Resp: 4130
 Ion Ratio Lower Upper
 75 100
 77 711.6 0.0 367.4#

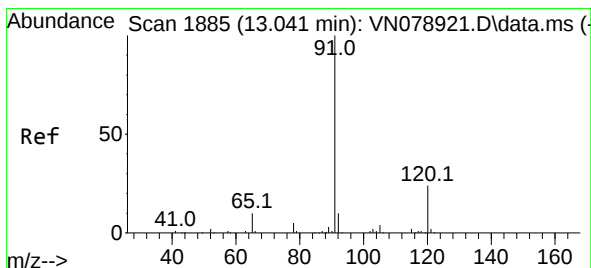
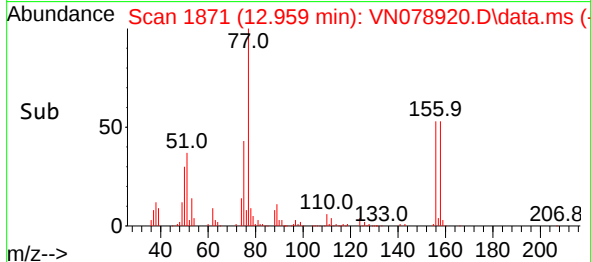
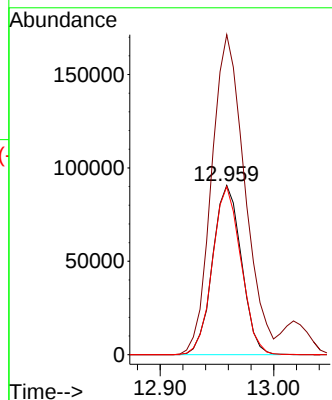
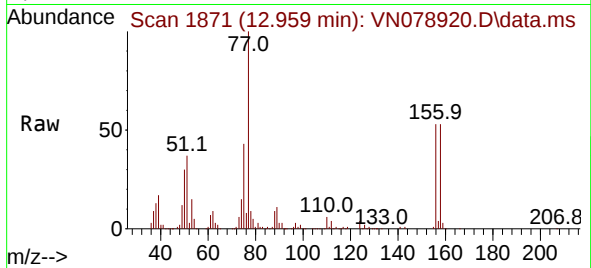




#73
Bromobenzene
Concen: 52.083 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. -0.024 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

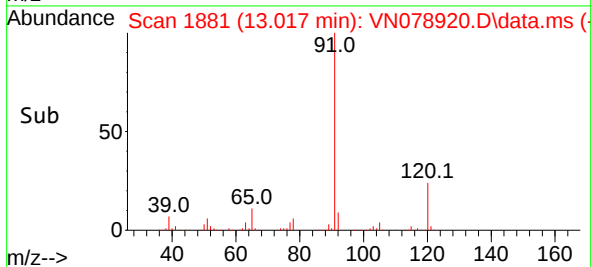
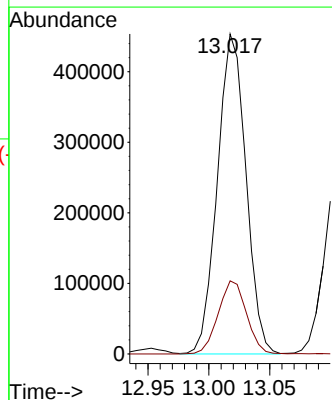
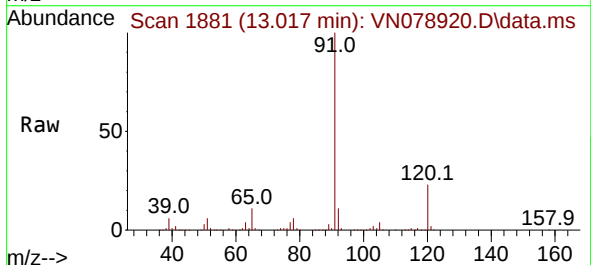
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

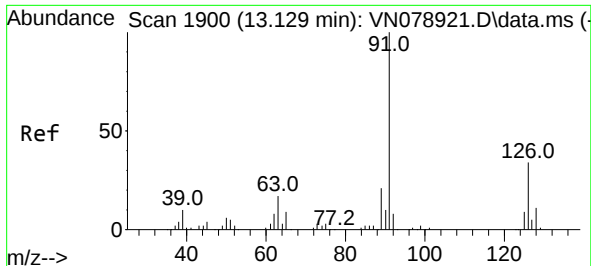
Tgt Ion:156 Resp: 159471
Ion Ratio Lower Upper
156 100
77 218.1 0.0 431.0
158 98.6 0.0 196.8



#74
n-propylbenzene
Concen: 54.381 ug/l
RT: 13.017 min Scan# 1881
Delta R.T. -0.024 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion: 91 Resp: 741233
Ion Ratio Lower Upper
91 100
120 22.5 0.0 44.4

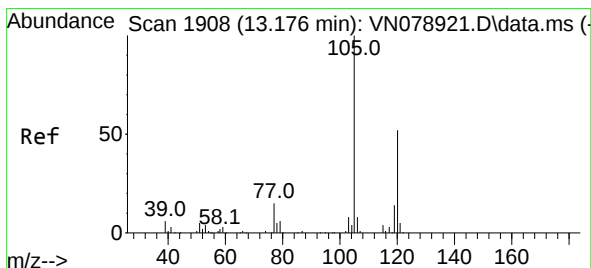
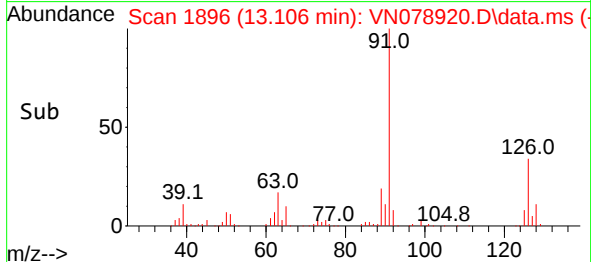
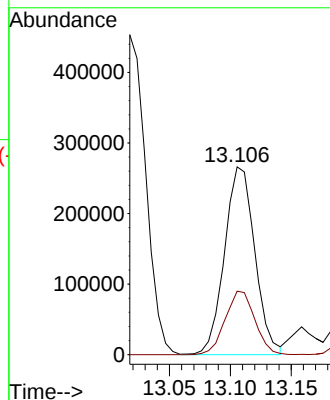
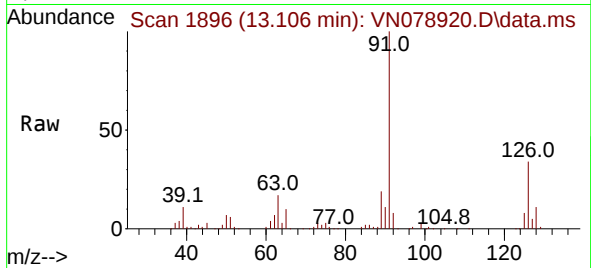




#75
2-Chlorotoluene
Concen: 53.478 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. -0.024 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

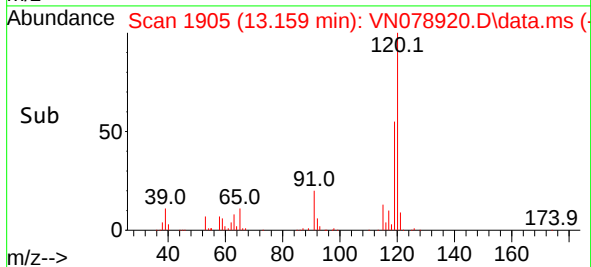
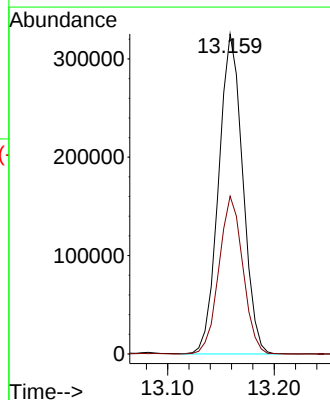
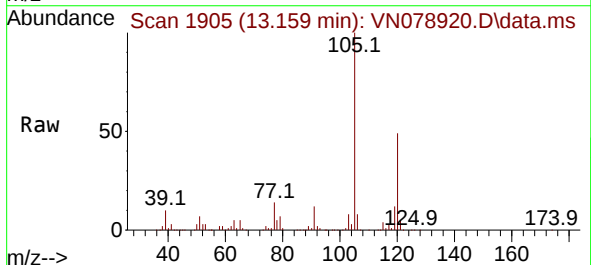
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

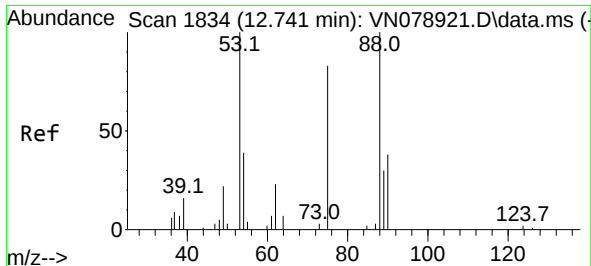
Tgt Ion: 91 Resp: 462430
Ion Ratio Lower Upper
91 100
126 33.0 0.0 67.2



#76
1,3,5-Trimethylbenzene
Concen: 53.689 ug/l
RT: 13.159 min Scan# 1905
Delta R.T. -0.018 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion: 105 Resp: 511872
Ion Ratio Lower Upper
105 100
120 48.8 0.0 98.8

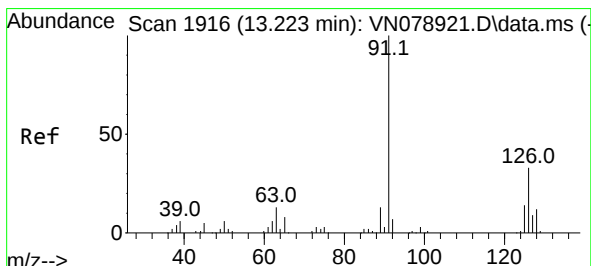
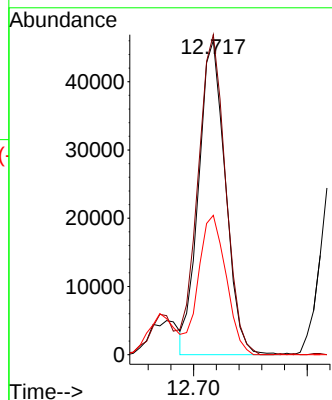
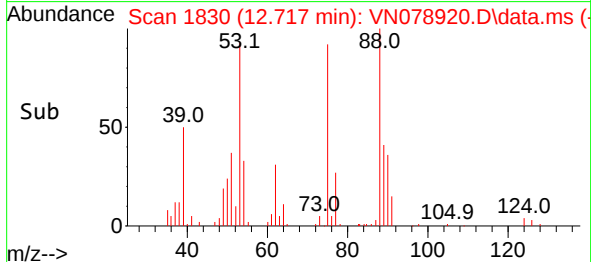
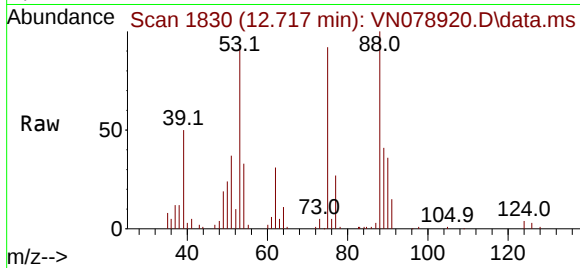




#77
t-1,4-Dichloro-2-butene
Concen: 54.646 ug/l
RT: 12.717 min Scan# 1830
Delta R.T. -0.024 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

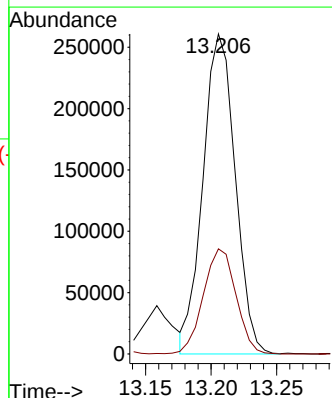
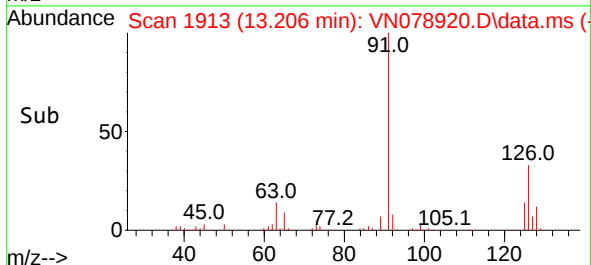
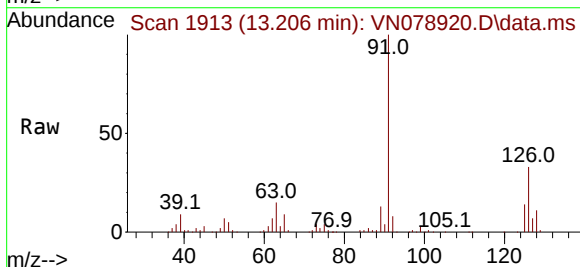
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

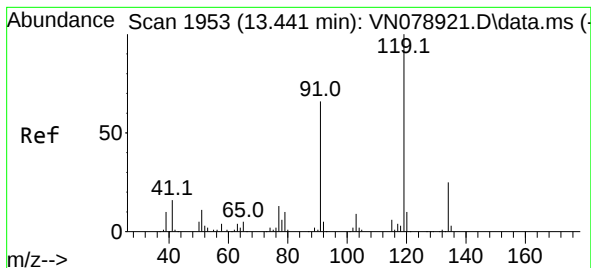
Tgt Ion: 75 Resp: 75112
Ion Ratio Lower Upper
75 100
53 101.4 60.1 180.3
89 44.4 22.9 68.8



#78
4-Chlorotoluene
Concen: 53.897 ug/l
RT: 13.206 min Scan# 1913
Delta R.T. -0.018 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion: 91 Resp: 446496
Ion Ratio Lower Upper
91 100
126 33.3 0.0 67.4





#79

tert-butylbenzene

Concen: 53.896 ug/l

RT: 13.429 min Scan# 1951

Delta R.T. -0.012 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

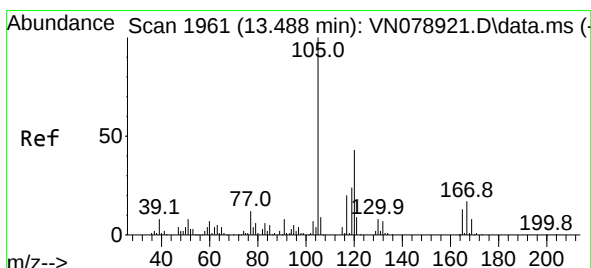
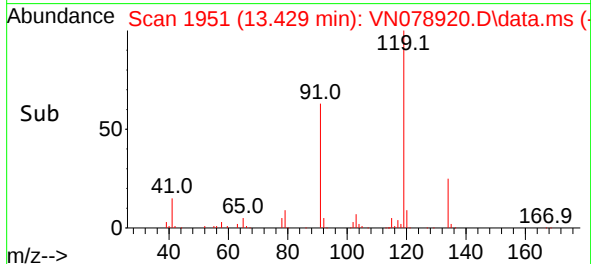
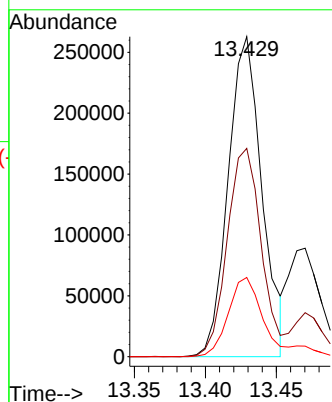
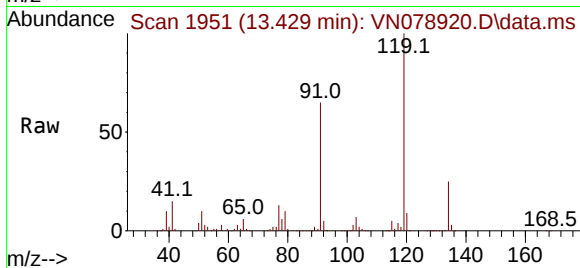
Tgt Ion:119 Resp: 434213

Ion Ratio Lower Upper

119 100

91 65.4 0.0 135.6

134 24.9 0.0 51.4



#80

1,2,4-Trimethylbenzene

Concen: 54.154 ug/l

RT: 13.470 min Scan# 1958

Delta R.T. -0.018 min

Lab File: VN078920.D

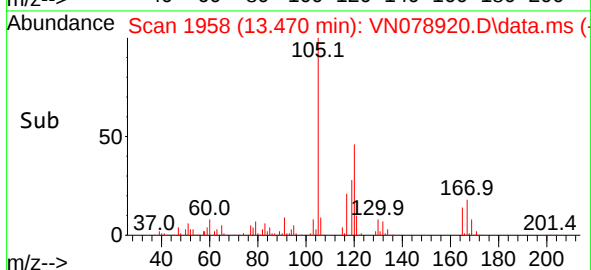
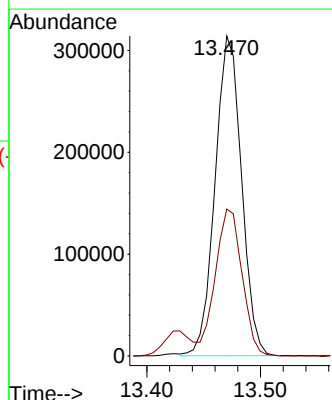
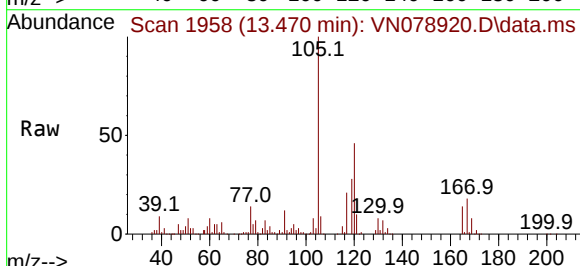
Acq: 17 Aug 2023 12:39

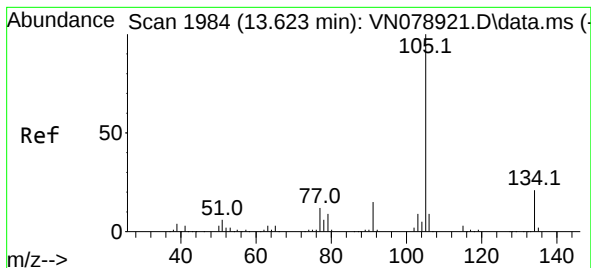
Tgt Ion:105 Resp: 507679

Ion Ratio Lower Upper

105 100

120 46.9 0.0 91.6





#81

sec-Butylbenzene

Concen: 55.653 ug/l

RT: 13.606 min Scan# 1984

Delta R.T. -0.018 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

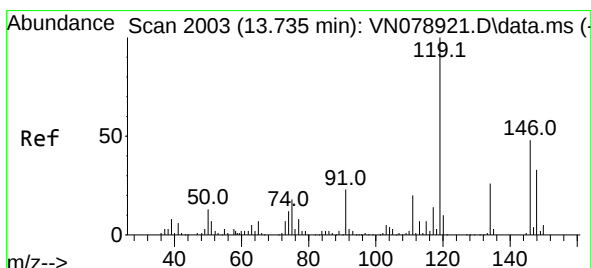
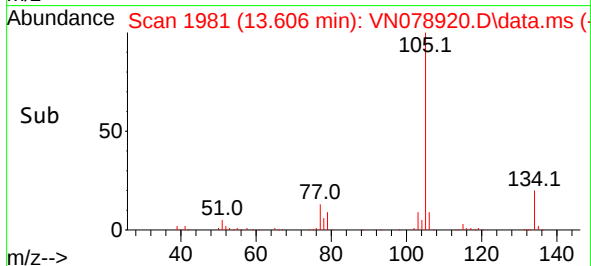
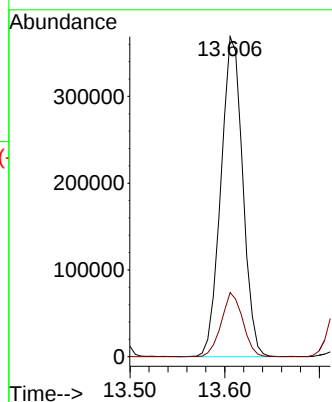
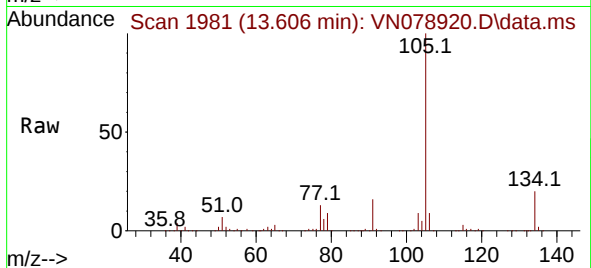
VSTDIC050

Tgt Ion:105 Resp: 591730

Ion Ratio Lower Upper

105 100

134 19.6 0.0 41.6



#82

p-Isopropyltoluene

Concen: 56.516 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.012 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

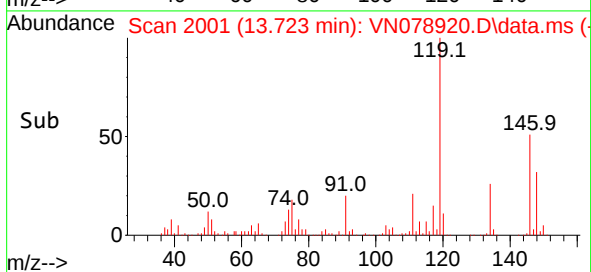
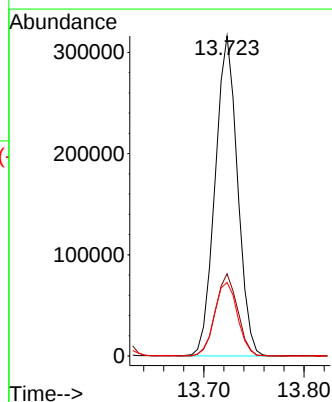
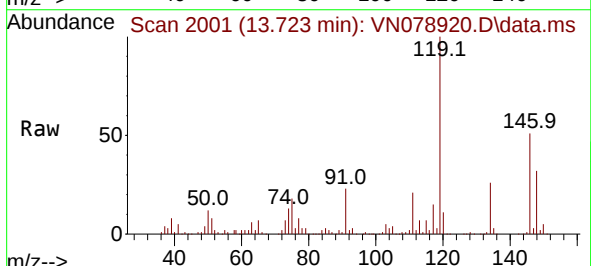
Tgt Ion:119 Resp: 490605

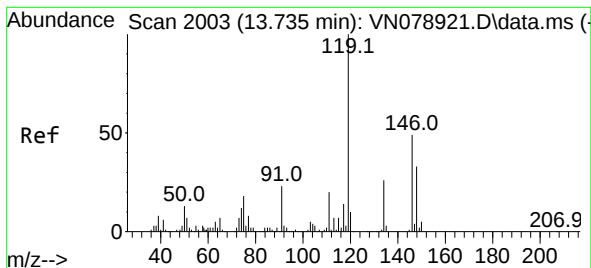
Ion Ratio Lower Upper

119 100

134 25.3 0.0 52.4

91 23.7 0.0 47.4





#83

1,3-Dichlorobenzene

Concen: 55.154 ug/l

RT: 13.723 min Scan# 2003

Delta R.T. -0.012 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

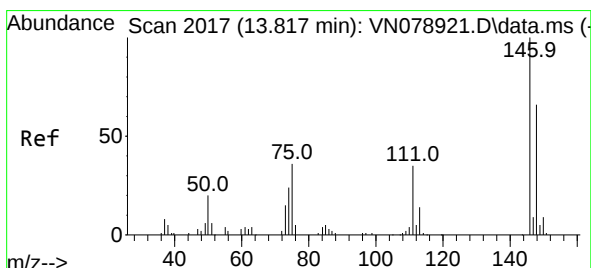
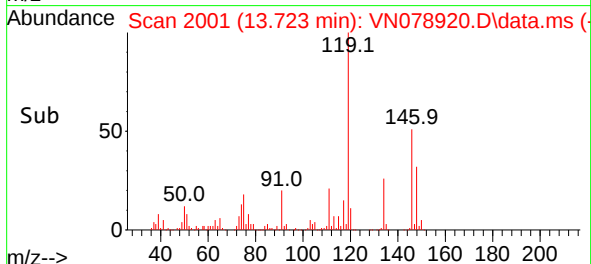
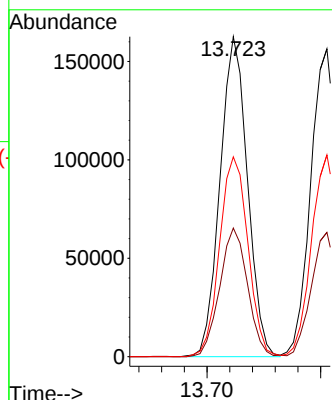
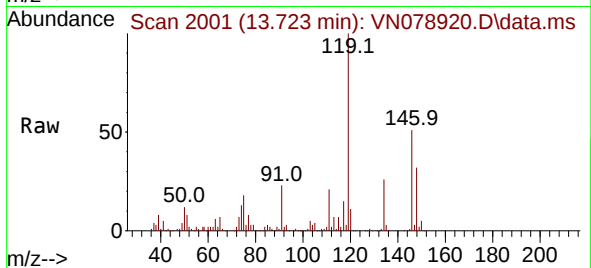
Tgt Ion:146 Resp: 272534

Ion Ratio Lower Upper

146 100

111 40.9 21.2 63.6

148 64.5 33.1 99.5



#84

1,4-Dichlorobenzene

Concen: 55.861 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.012 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

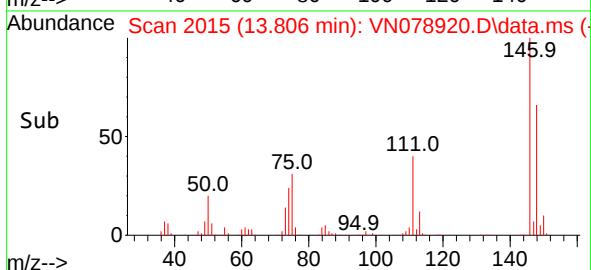
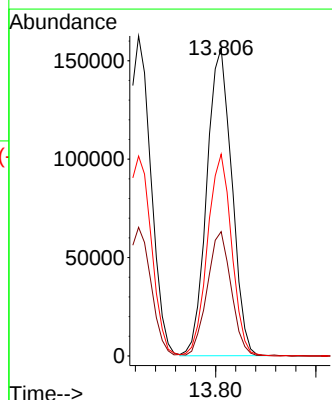
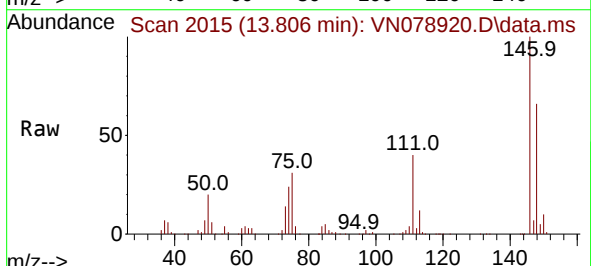
Tgt Ion:146 Resp: 271002

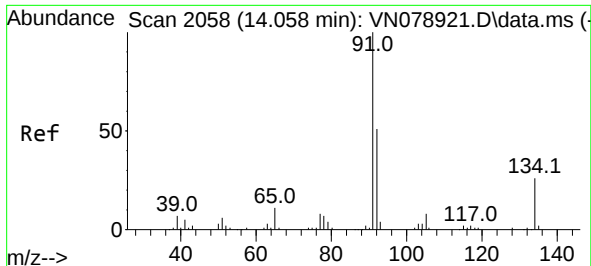
Ion Ratio Lower Upper

146 100

111 38.7 18.6 56.0

148 63.4 32.0 96.2

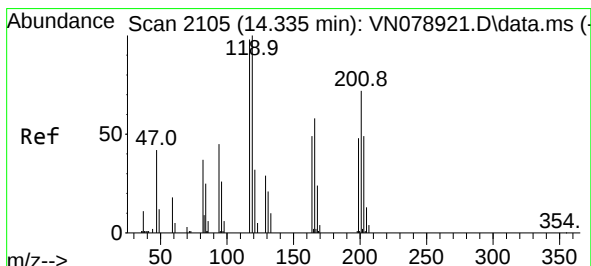
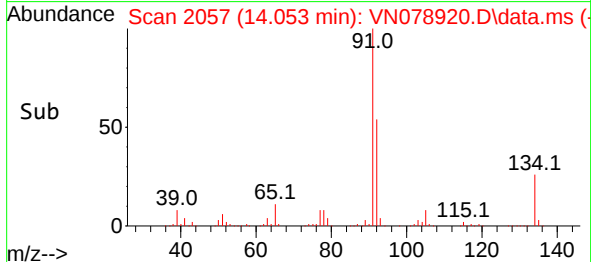
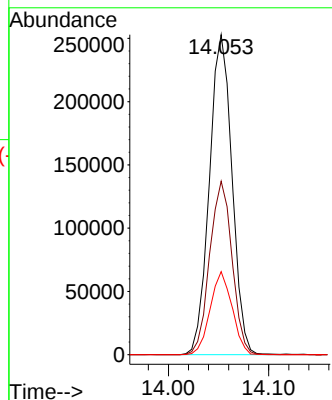
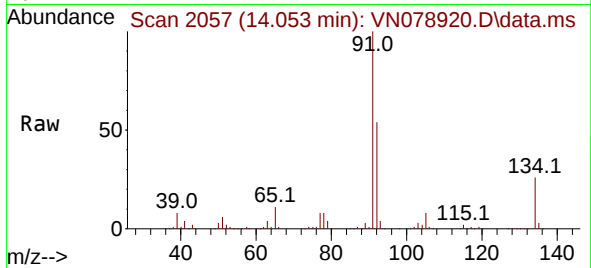




#85
n-Butylbenzene
Concen: 58.227 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.006 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

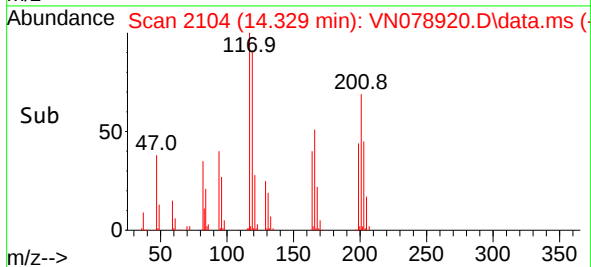
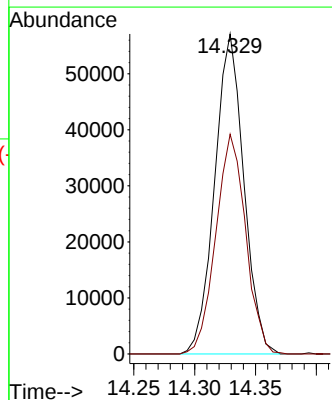
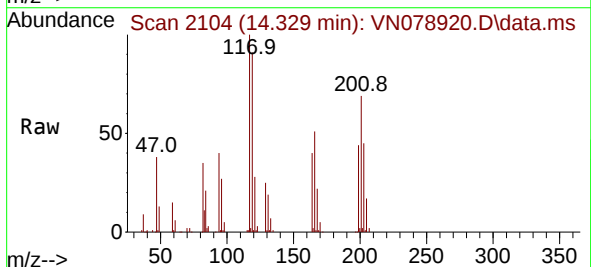
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

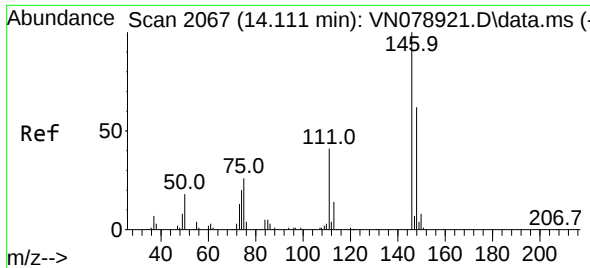
Tgt Ion:	91	Resp:	397548
Ion	Ratio	Lower	Upper
91	100		
92	53.6	0.0	102.8
134	25.1	0.0	48.6



#86
Hexachloroethane
Concen: 53.601 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion:	117	Resp:	95207
Ion	Ratio	Lower	Upper
117	100		
201	70.3	36.6	109.8

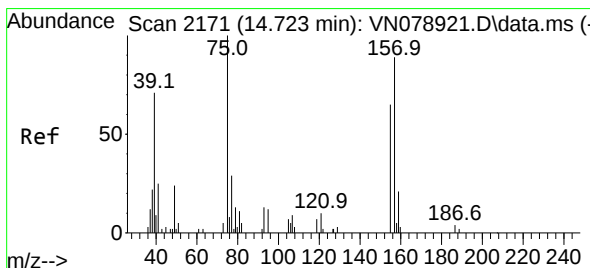
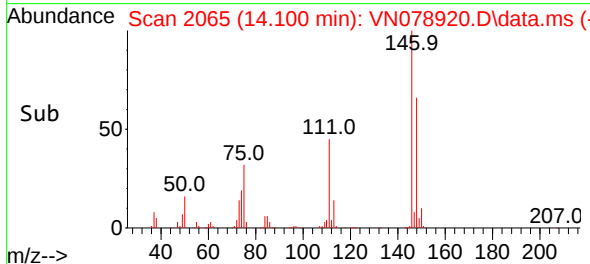
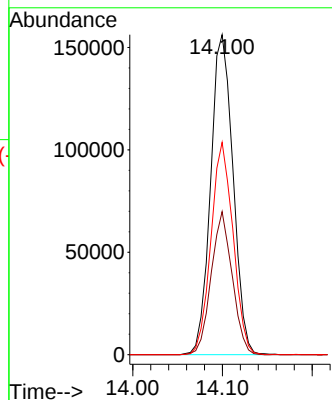
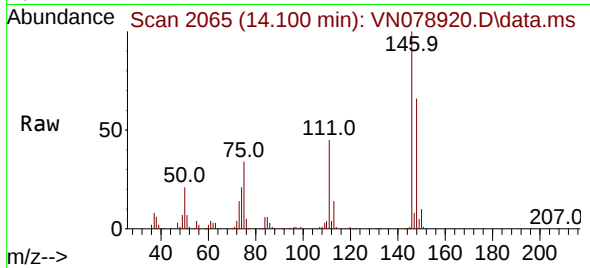




#87
1,2-Dichlorobenzene
Concen: 53.460 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.012 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

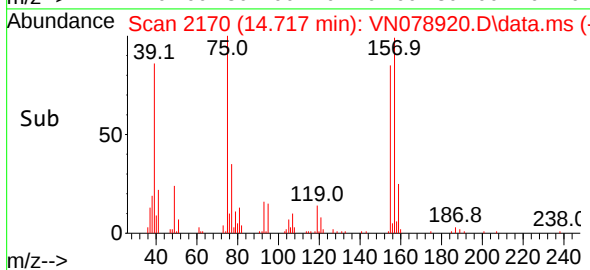
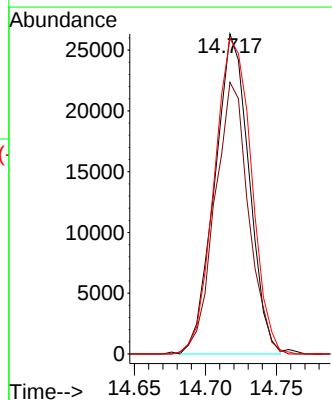
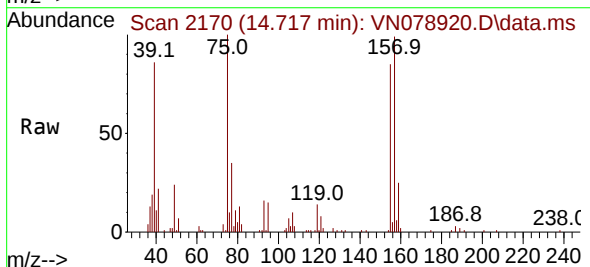
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

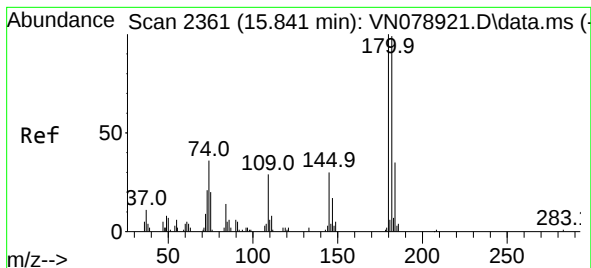
Tgt Ion:146 Resp: 270563
Ion Ratio Lower Upper
146 100
111 42.0 20.3 60.8
148 65.5 32.0 96.2



#88
1,2-Dibromo-3-Chloropropane
Concen: 54.622 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.006 min
Lab File: VN078920.D
Acq: 17 Aug 2023 12:39

Tgt Ion: 75 Resp: 44201
Ion Ratio Lower Upper
75 100
155 83.6 61.1 91.7
157 106.8 79.8 119.6





#89

1,2,4-Trichlorobenzene

Concen: 62.565 ug/l

RT: 15.841 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

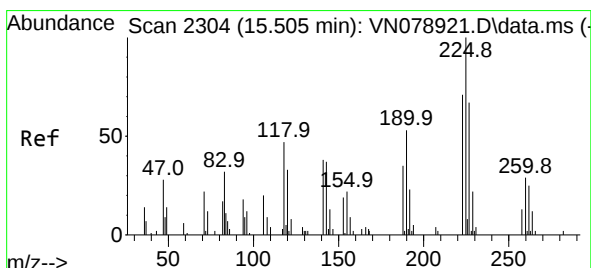
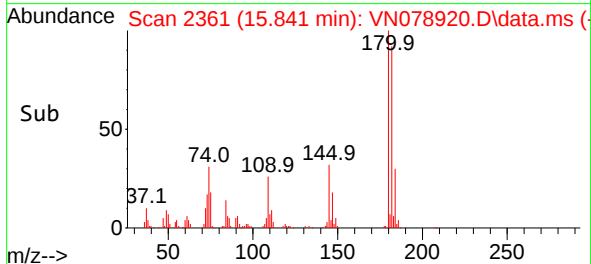
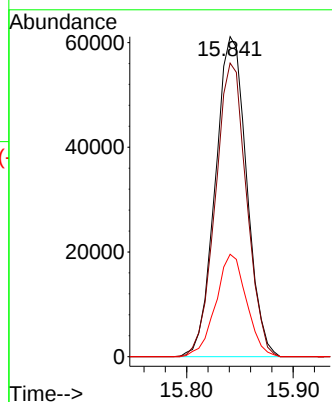
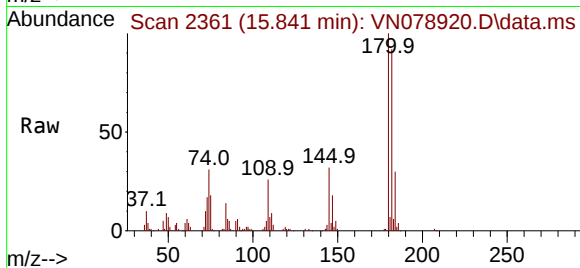
Tgt Ion:180 Resp: 125083

Ion Ratio Lower Upper

180 100

182 91.0 76.1 114.1

145 31.3 26.5 39.7



#90

Hexachlorobutadiene

Concen: 54.301 ug/l

RT: 15.505 min Scan# 2304

Delta R.T. -0.000 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

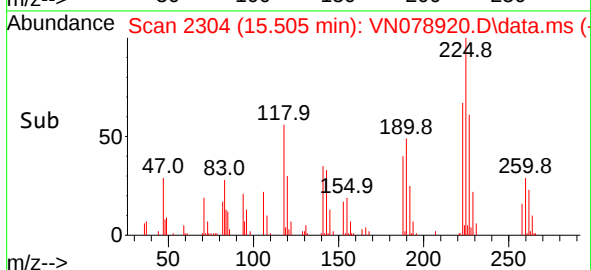
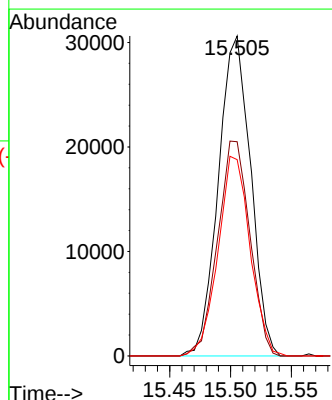
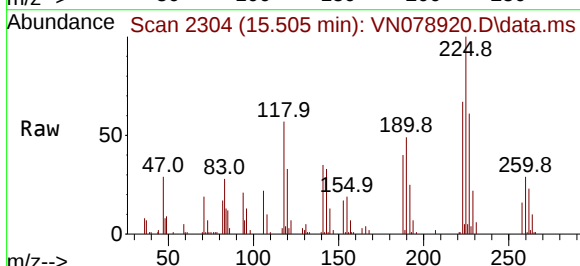
Tgt Ion:225 Resp: 56507

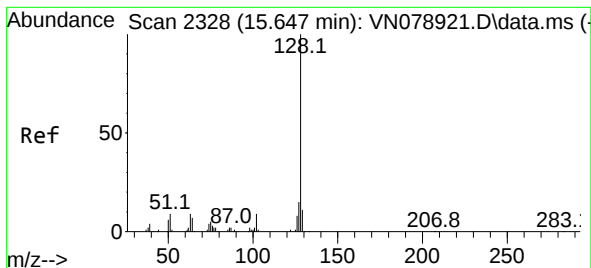
Ion Ratio Lower Upper

225 100

223 67.1 0.0 124.0

227 62.1 0.0 117.4





#91

Naphthalene

Concen: 64.553 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.006 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

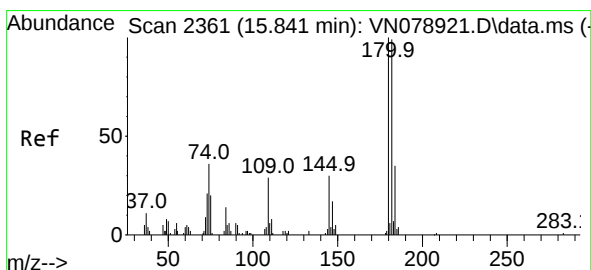
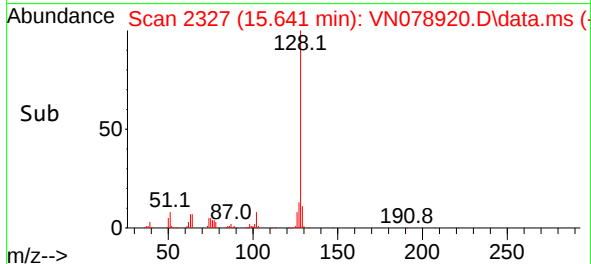
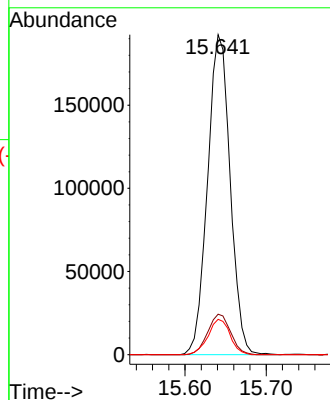
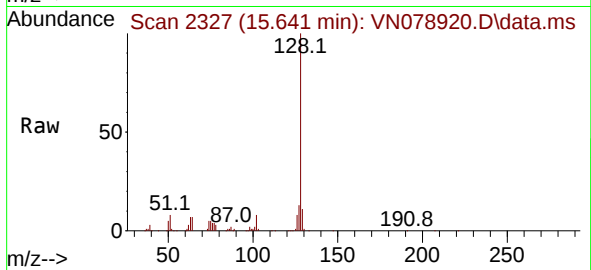
Tgt Ion:128 Resp: 372140

Ion Ratio Lower Upper

128 100

127 12.8 11.1 16.7

129 10.8 8.6 13.0



#92

1,2,3-Trichlorobenzene

Concen: 62.580 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.000 min

Lab File: VN078920.D

Acq: 17 Aug 2023 12:39

Tgt Ion:180 Resp: 125083

Ion Ratio Lower Upper

180 100

182 91.0 0.0 190.2

145 31.3 0.0 66.2

