

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072523\
 Data File : VN078642.D
 Acq On : 25 Jul 2023 12:19
 Operator : JC\MD
 Sample : VN0725WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0725WBL01

Quant Time: Jul 26 04:44:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

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

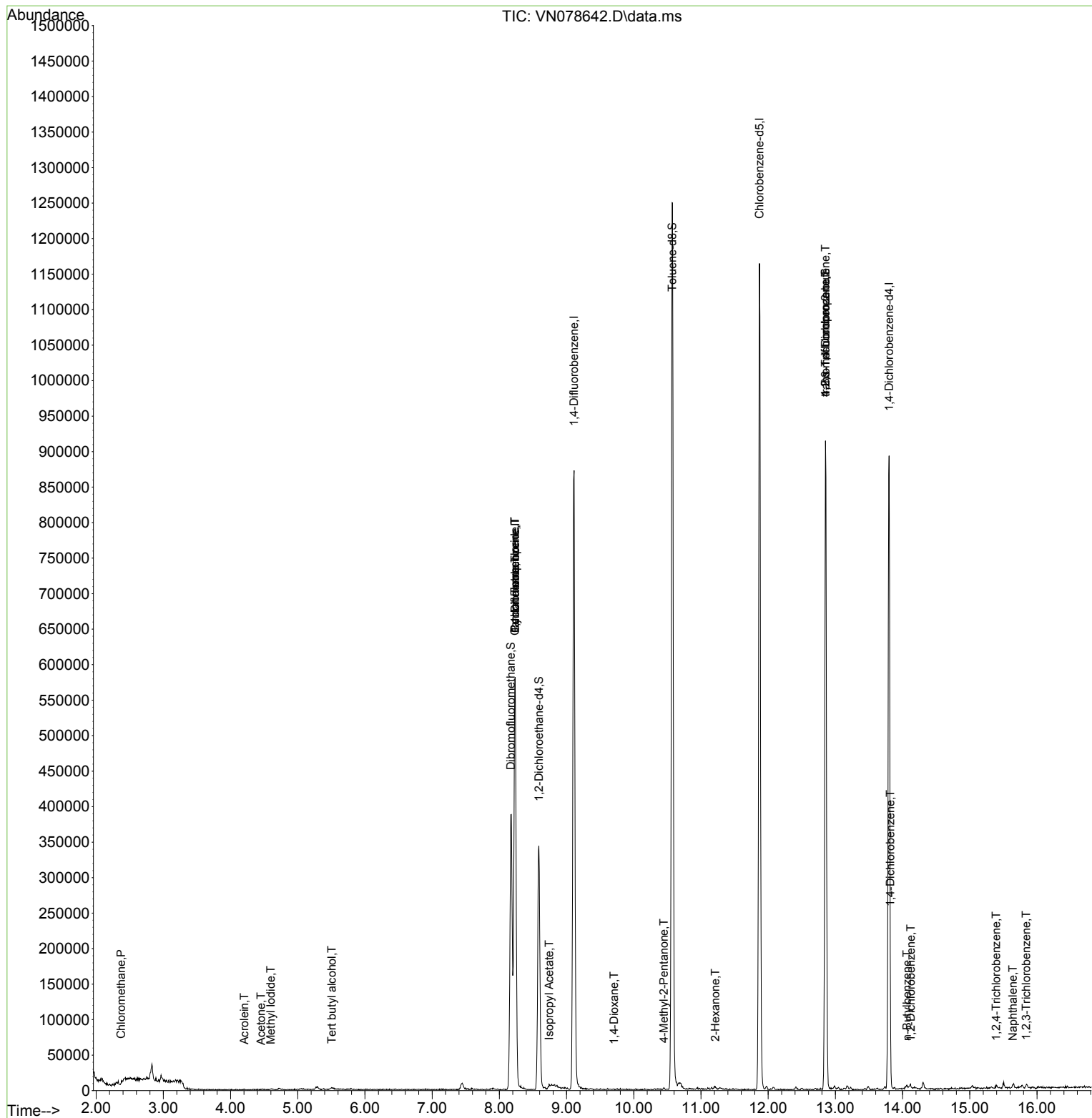
Internal Standards						
1) Pentafluorobenzene	8.236	168	455885	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	790386	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	725421	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	257999	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	284954	46.625	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.240%		
35) Dibromofluoromethane	8.171	113	284320	52.992	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	105.980%		
50) Toluene-d8	10.571	98	943485	46.549	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.100%		
62) 4-Bromofluorobenzene	12.853	95	318581	51.028	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	102.060%		
Target Compounds						Qvalue
3) Chloromethane	2.371	50	2172	0.358	ug/l	93
5) Bromomethane	2.977	94	4517	Below Cal		87
6) Chloroethane	3.136	64	413	Below Cal	#	43
10) Methyl Iodide	4.600	142	2567	0.376	ug/l	# 68
11) Tert butyl alcohol	5.506	59	990	1.050	ug/l	# 72
13) Acrolein	4.206	56	668	0.720	ug/l	# 62
16) Acetone	4.453	43	429	0.225	ug/l	# 86
20) Methylene Chloride	5.289	84	1822	Below Cal	#	79
31) Cyclohexane	8.236	56	9694	1.174	ug/l	# 3
36) 1,1-Dichloropropene	8.236	75	34516	4.455	ug/l	# 47
38) Carbon Tetrachloride	8.230	117	45871	5.448	ug/l	# 15
43) Isopropyl Acetate	8.741	43	3714	0.349	ug/l	# 49
49) 1,4-Dioxane	9.706	88	119	1.108	ug/l	# 86
51) 4-Methyl-2-Pentanone	10.447	43	1826	0.289	ug/l	# 55
59) 2-Hexanone	11.212	43	2145	0.477	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	643	Below Cal	#	89
76) 1,2,3-Trichloropropane	12.853	75	163523	26.222	ug/l	# 1
77) Bromobenzene	12.988	156	826	Below Cal	#	81
81) trans-1,4-Dichloro-2-b...	12.853	75	163523	68.906	ug/l	# 15
88) 1,4-Dichlorobenzene	13.818	146	2508	0.268	ug/l	# 1
89) n-Butylbenzene	14.065	91	2572	0.218	ug/l	97
90) Hexachloroethane	14.341	117	231	Below Cal	#	21
91) 1,2-Dichlorobenzene	14.123	146	1930	0.208	ug/l	83
92) 1,2-Dibromo-3-Chloropr...	14.729	75	55	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	15.394	180	1550	0.524	ug/l	82
94) Hexachlorobutadiene	15.506	225	1705	Below Cal		79
95) Naphthalene	15.641	128	5642	0.558	ug/l	97
96) 1,2,3-Trichlorobenzene	15.841	180	1756	0.517	ug/l	83

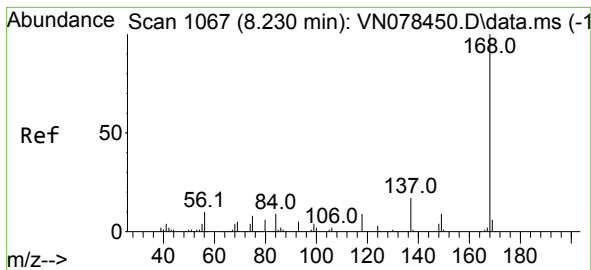
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jul 10 16:13:53 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 1

Delta R.T. 0.005 min

Lab File: VN078642.D

Acq: 25 Jul 2023 12:19

Instrument :

MSVOA_N

ClientSampleId :

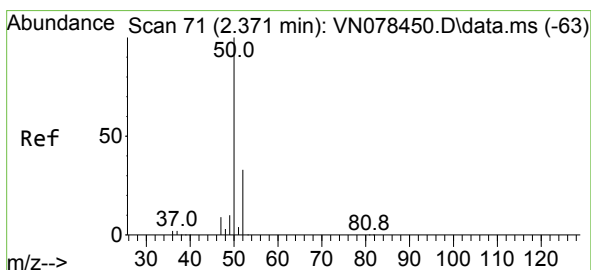
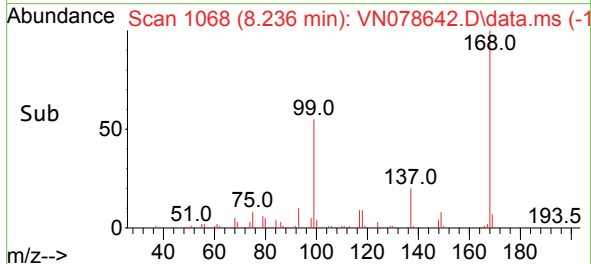
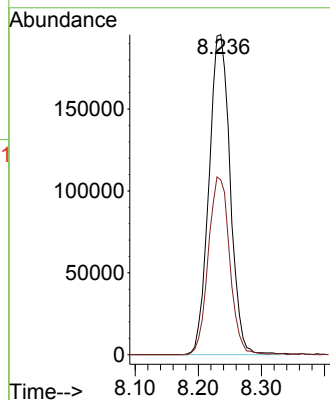
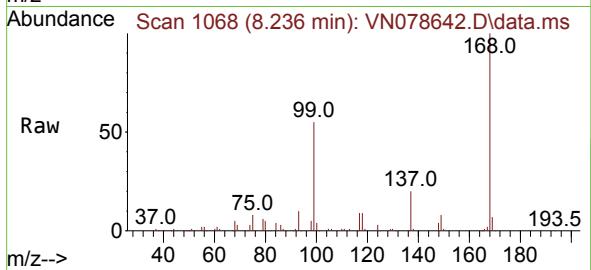
VN0725WBL01

Tgt Ion:168 Resp: 455885

Ion Ratio Lower Upper

168 100

99 54.6 53.0 79.6



#3

Chloromethane

Concen: 0.358 ug/l

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078642.D

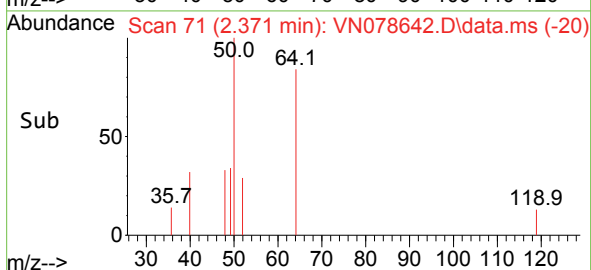
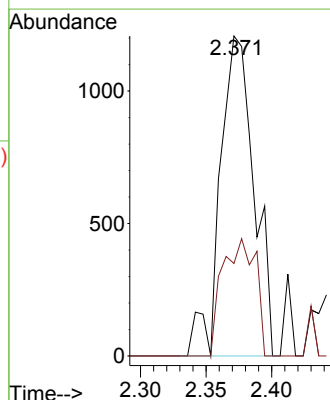
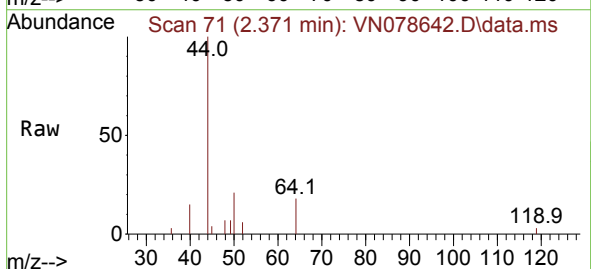
Acq: 25 Jul 2023 12:19

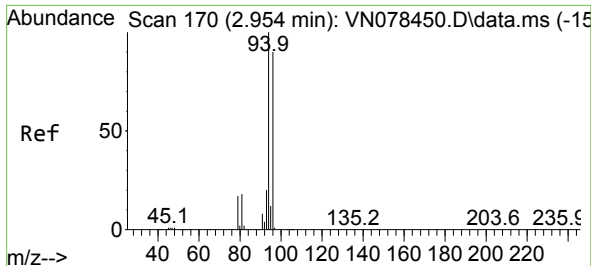
Tgt Ion: 50 Resp: 2172

Ion Ratio Lower Upper

50 100

52 28.9 26.5 39.7

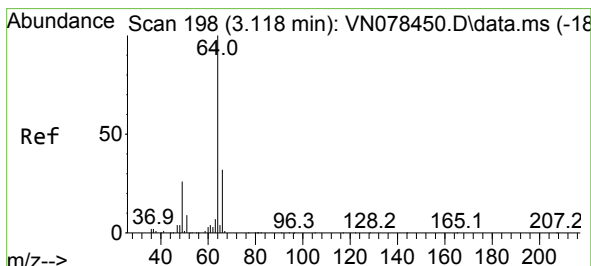
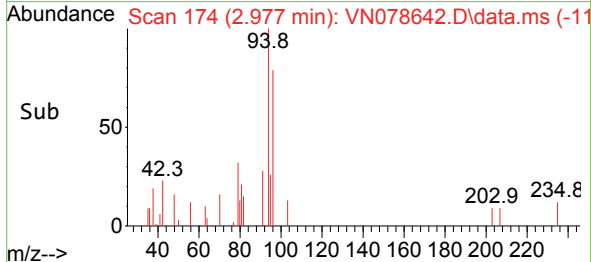
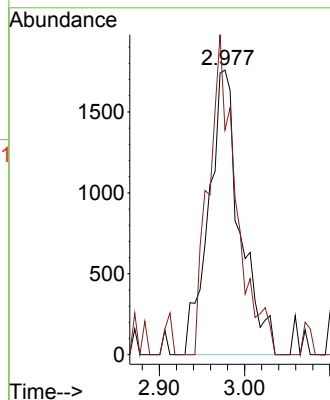
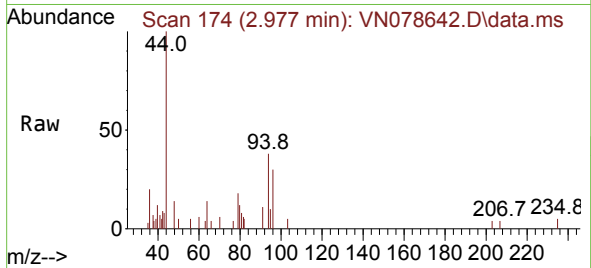




#5
Bromomethane
Concen: Below Cal
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

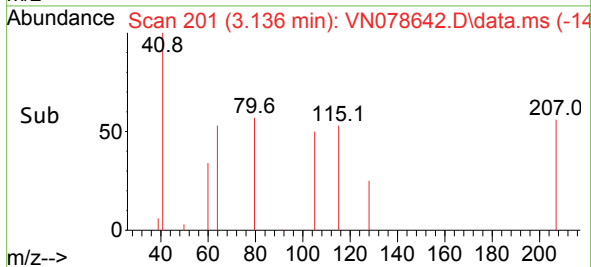
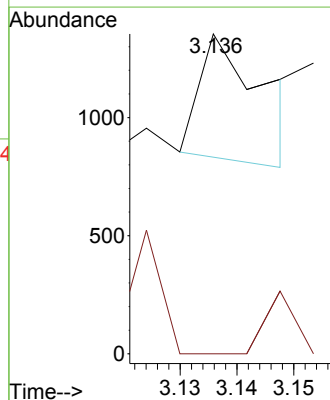
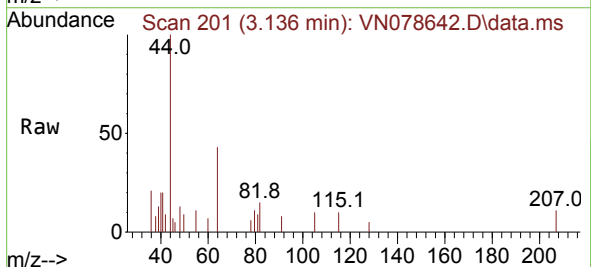
Instrument :
MSVOA_N
ClientSampleId :
VN0725WBL01

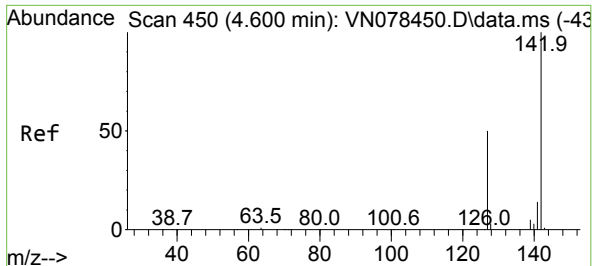
Tgt Ion: 94 Resp: 4517
Ion Ratio Lower Upper
94 100
96 79.0 73.1 109.7



#6
Chloroethane
Concen: Below Cal
RT: 3.136 min Scan# 201
Delta R.T. 0.018 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

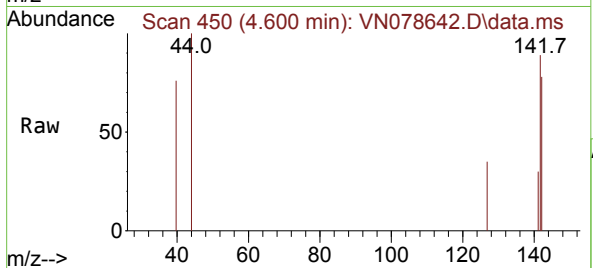
Tgt Ion: 64 Resp: 413
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



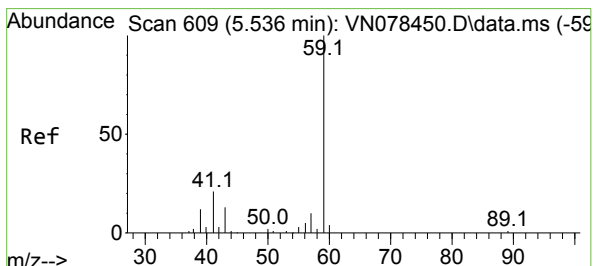
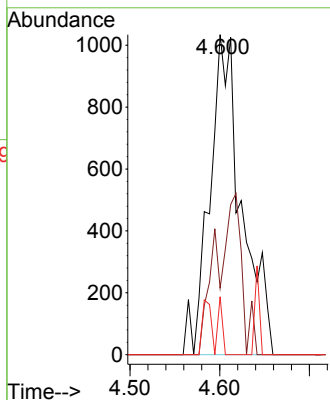
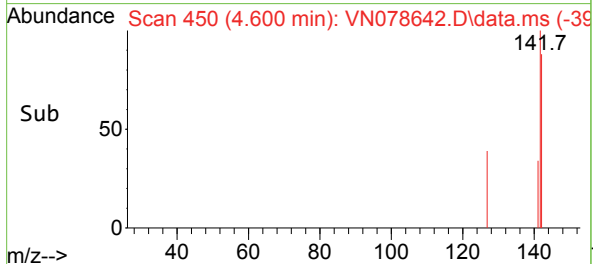


#10
Methyl Iodide
Concen: 0.376 ug/l
RT: 4.600 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBL01

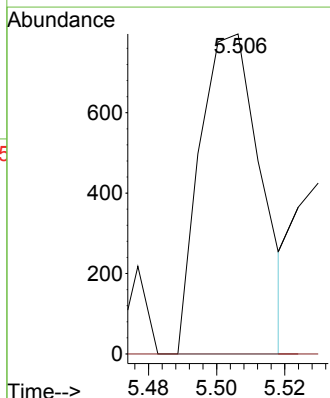
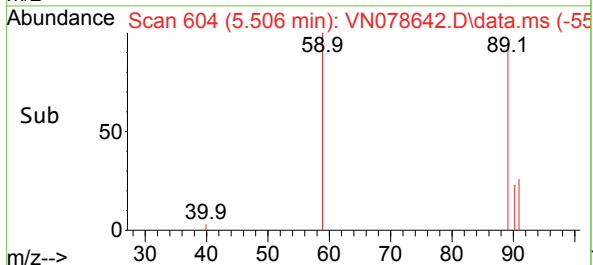
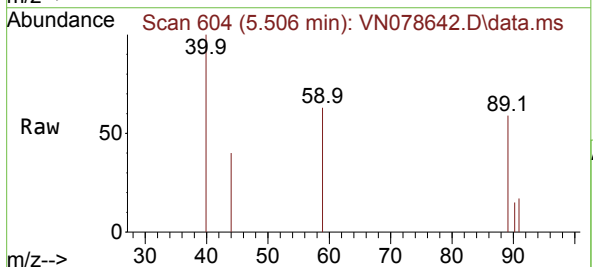


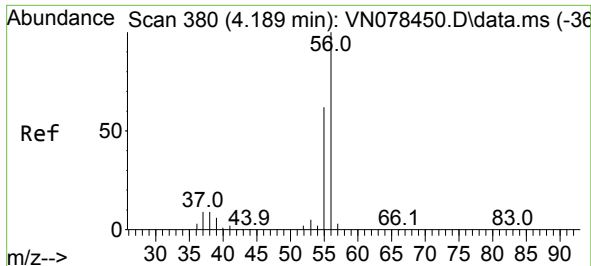
Tgt Ion:142 Resp: 2567
Ion Ratio Lower Upper
142 100
127 20.8 37.6 56.4#
141 18.1 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.050 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.030 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

Tgt Ion: 59 Resp: 990
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

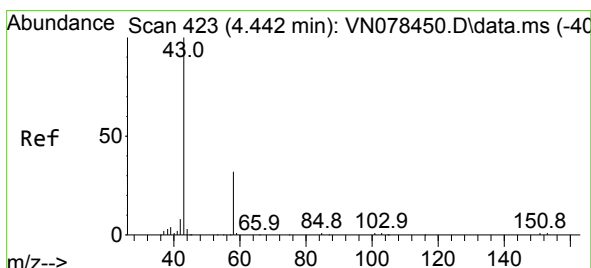
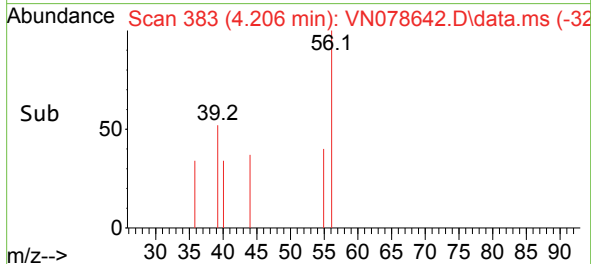
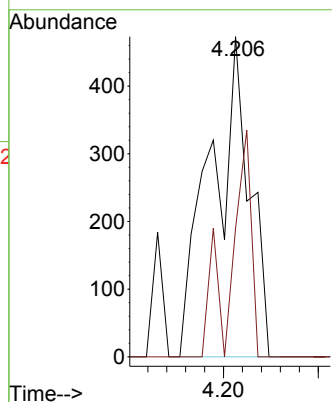
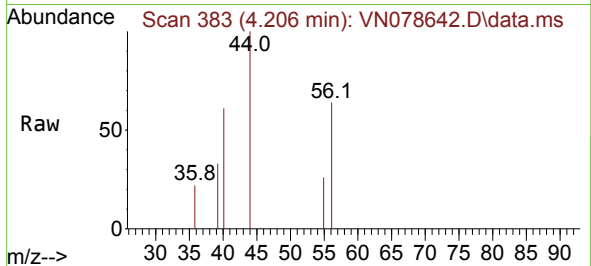




#13
Acrolein
Concen: 0.720 ug/l
RT: 4.206 min Scan# 380
Delta R.T. 0.017 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

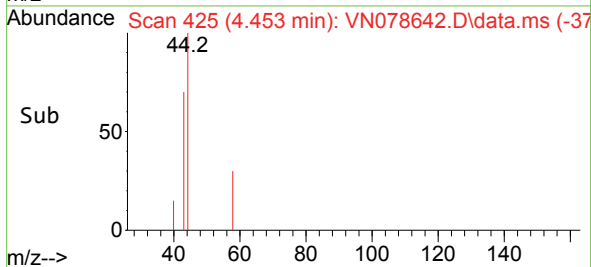
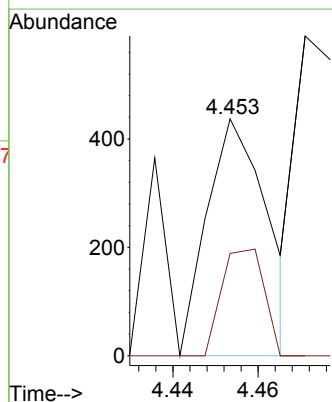
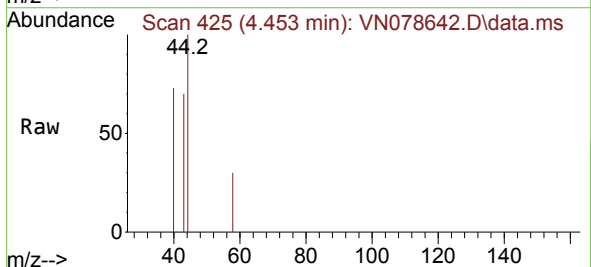
Instrument :
MSVOA_N
ClientSampleId :
VN0725WBL01

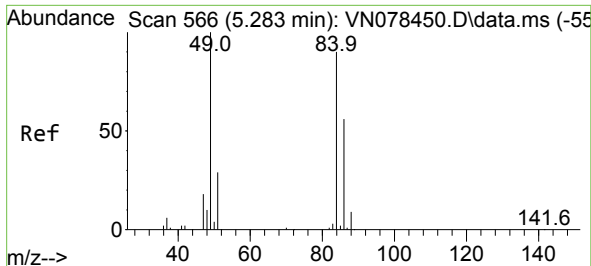
Tgt Ion: 56 Resp: 668
Ion Ratio Lower Upper
56 100
55 37.7 54.5 81.7#



#16
Acetone
Concen: 0.225 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.011 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

Tgt Ion: 43 Resp: 429
Ion Ratio Lower Upper
43 100
58 43.2 28.0 42.0#

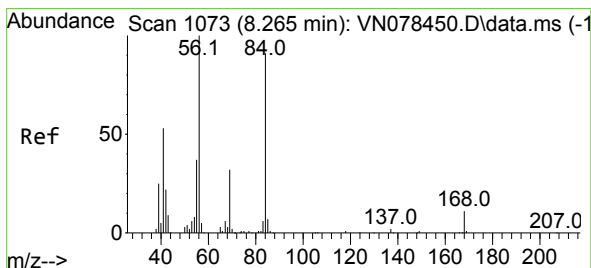
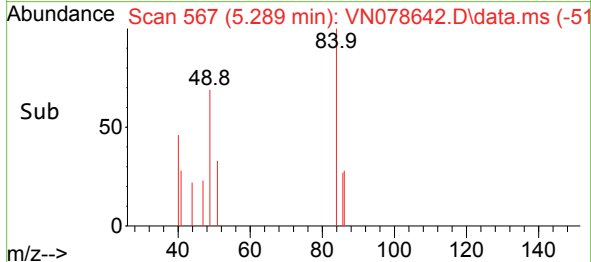
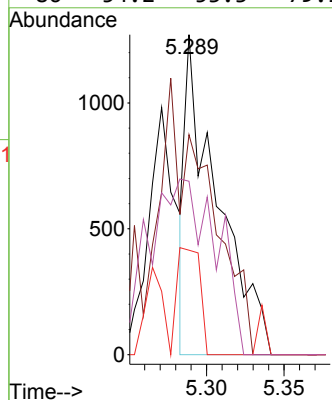
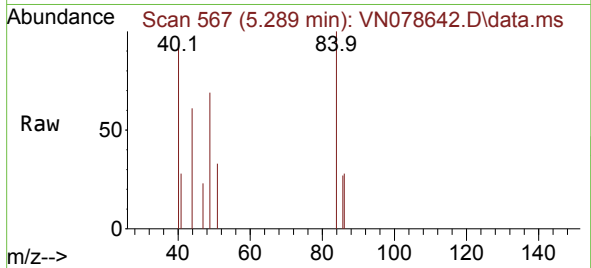




#20
Methylene Chloride
Concen: Below Cal
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

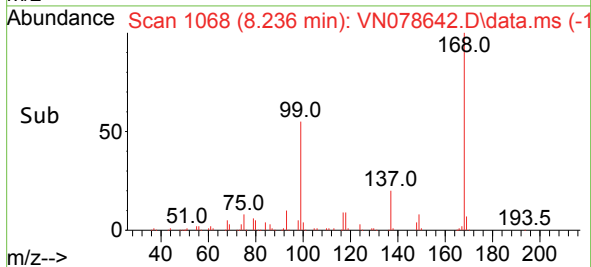
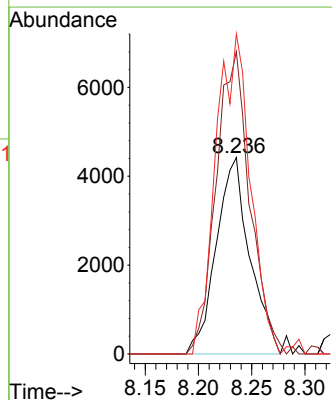
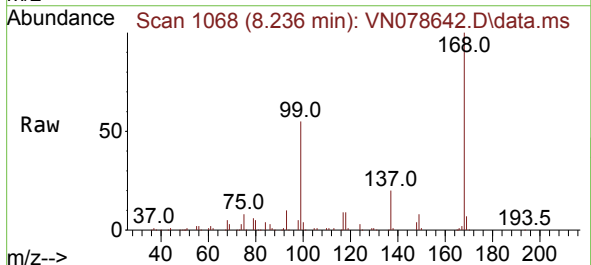
Instrument :
MSVOA_N
ClientSampleId :
VN0725WBL01

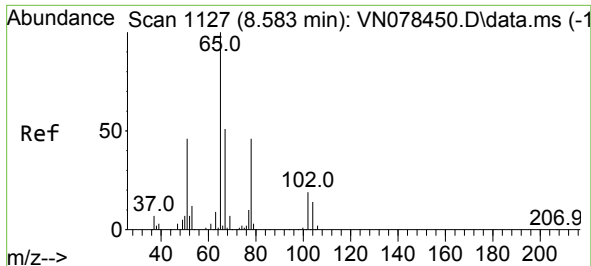
Tgt Ion:	84	Resp:	1822
Ion	Ratio	Lower	Upper
84	100		
49	68.8	79.7	119.5#
51	32.7	25.2	37.8
86	54.2	53.3	79.9



#31
Cyclohexane
Concen: 1.174 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.030 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

Tgt Ion:	56	Resp:	9694
Ion	Ratio	Lower	Upper
56	100		
69	153.8	26.8	40.2#
84	162.9	81.8	122.6#





#33

1,2-Dichloroethane-d4

Concen: 46.625 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078642.D

Acq: 25 Jul 2023 12:19

Instrument :

MSVOA_N

ClientSampleId :

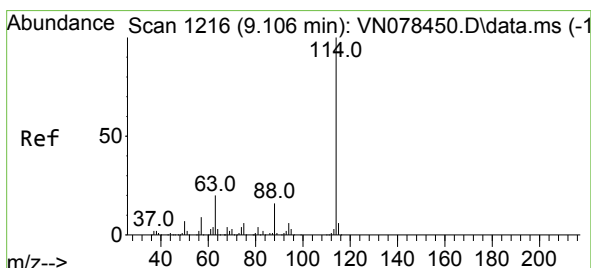
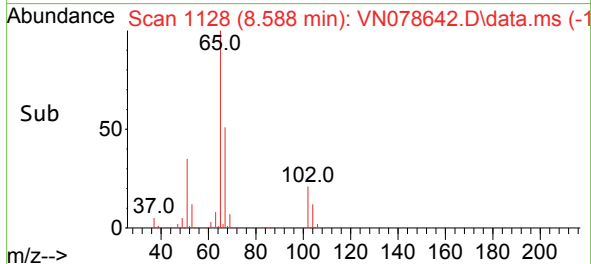
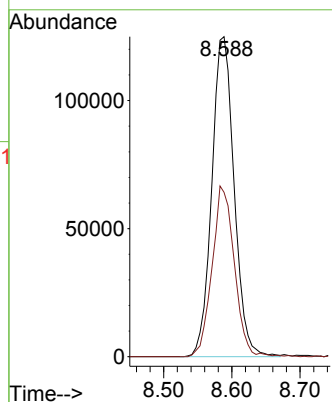
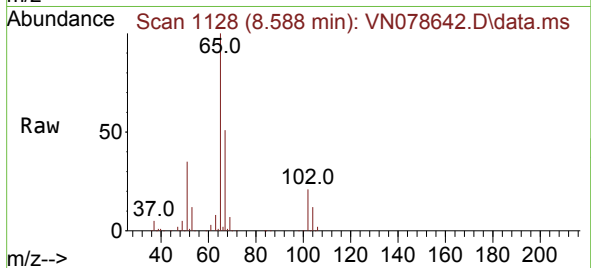
VN0725WBL01

Tgt Ion: 65 Resp: 284954

Ion Ratio Lower Upper

65 100

67 53.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078642.D

Acq: 25 Jul 2023 12:19

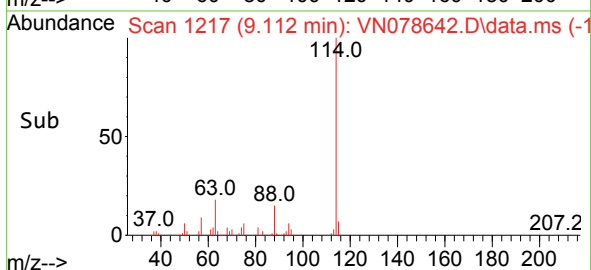
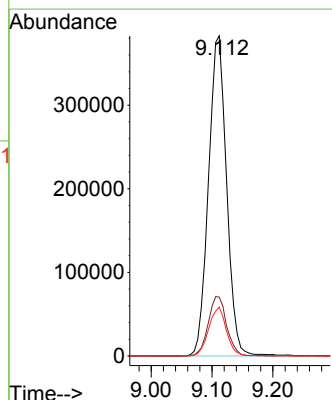
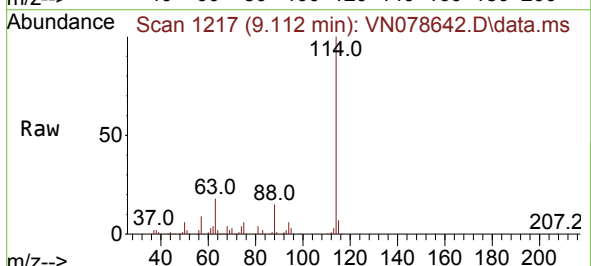
Tgt Ion: 114 Resp: 790386

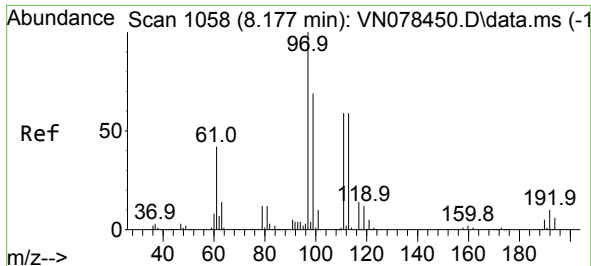
Ion Ratio Lower Upper

114 100

63 18.4 0.0 36.4

88 15.2 0.0 30.6





#35

Dibromofluoromethane

Concen: 52.992 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VN078642.D

Acq: 25 Jul 2023 12:19

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBL01

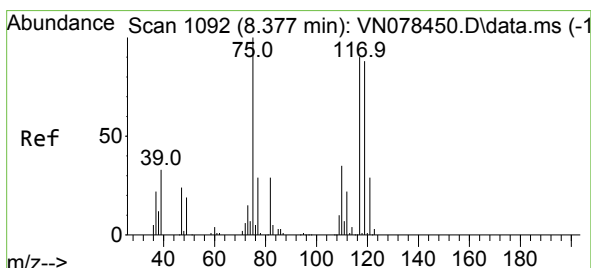
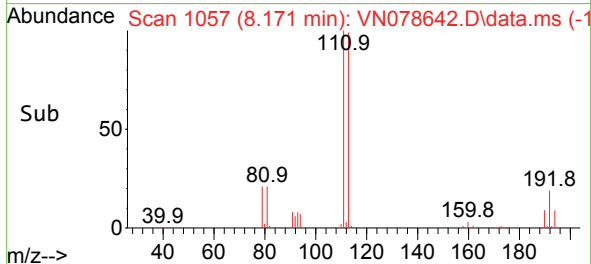
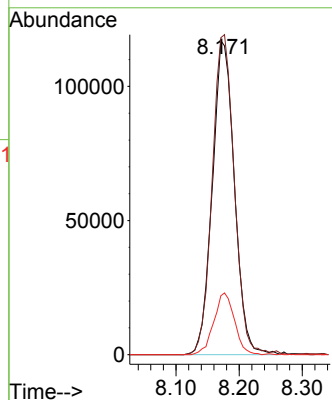
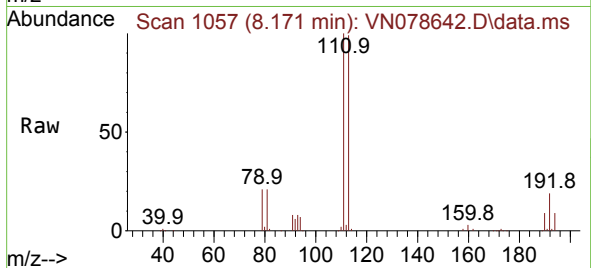
Tgt Ion:113 Resp: 284320

Ion Ratio Lower Upper

113 100

111 102.2 82.6 123.8

192 18.4 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.455 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.142 min

Lab File: VN078642.D

Acq: 25 Jul 2023 12:19

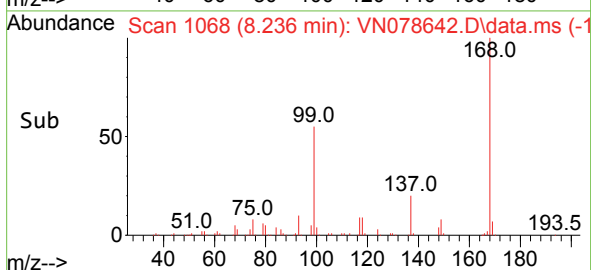
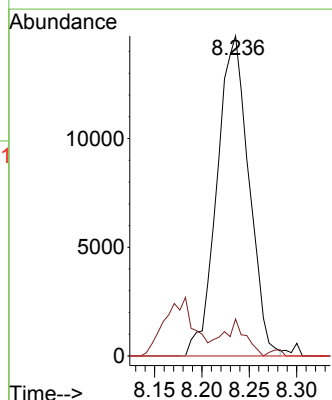
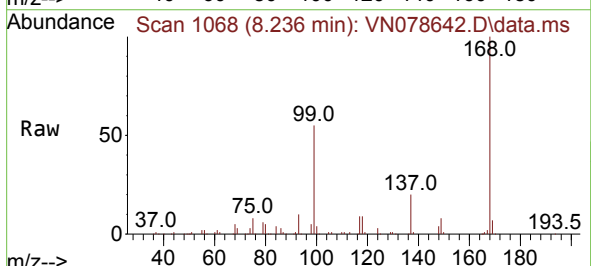
Tgt Ion: 75 Resp: 34516

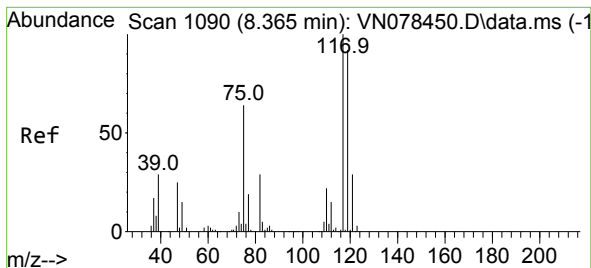
Ion Ratio Lower Upper

75 100

110 7.5 19.1 57.3#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.448 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.135 min

Lab File: VN078642.D

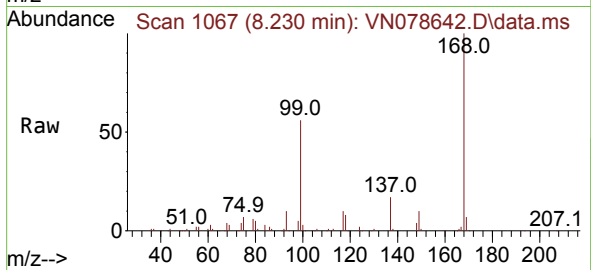
Acq: 25 Jul 2023 12:19

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBL01



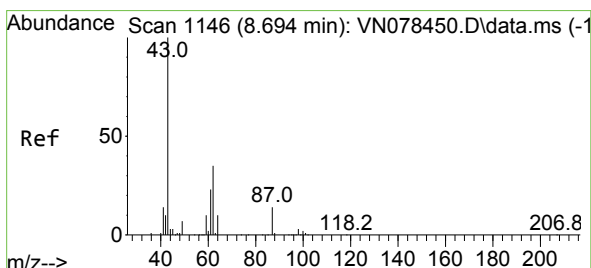
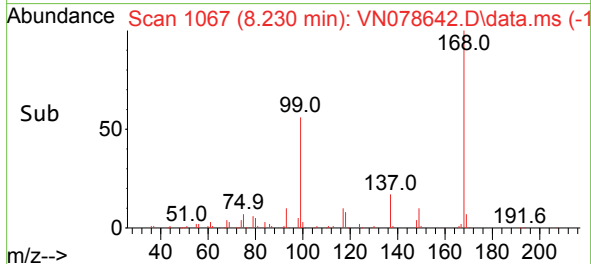
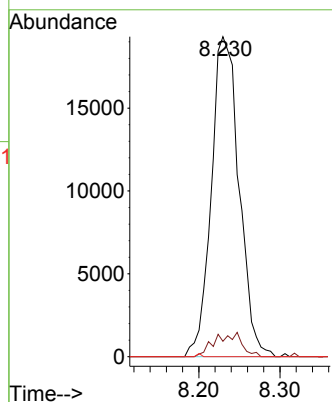
Tgt Ion:117 Resp: 45871

Ion Ratio Lower Upper

117 100

119 4.8 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 0.349 ug/l

RT: 8.741 min Scan# 1154

Delta R.T. 0.047 min

Lab File: VN078642.D

Acq: 25 Jul 2023 12:19

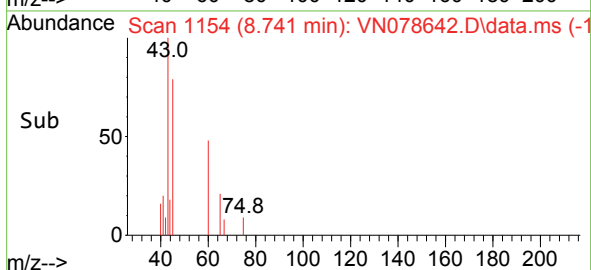
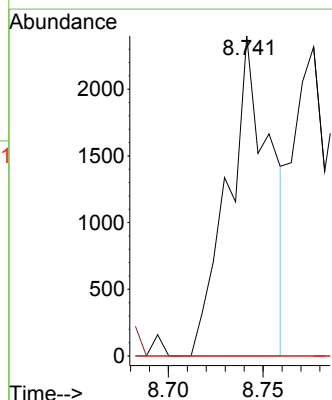
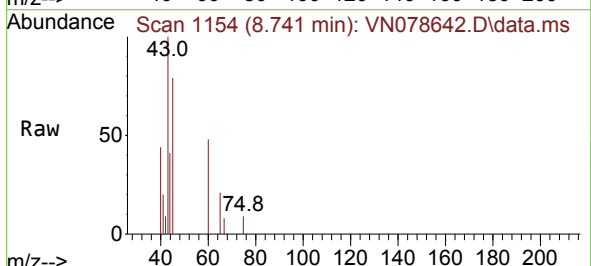
Tgt Ion: 43 Resp: 3714

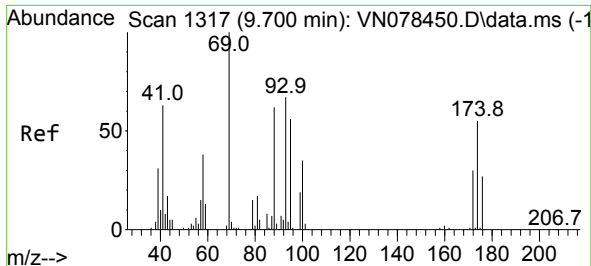
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#





#49

1,4-Dioxane

Concen: 1.108 ug/l

RT: 9.706 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN078642.D

Acq: 25 Jul 2023 12:19

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBL01

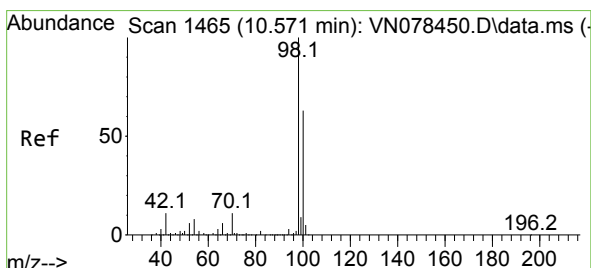
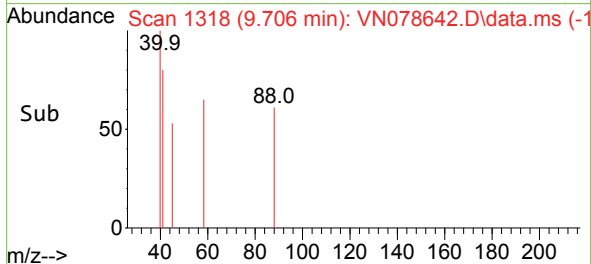
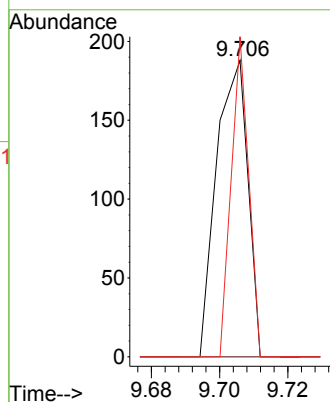
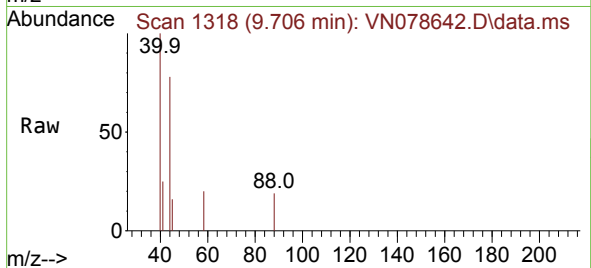
Tgt Ion: 88 Resp: 119

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 60.5 47.0 70.4



#50

Toluene-d8

Concen: 46.549 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078642.D

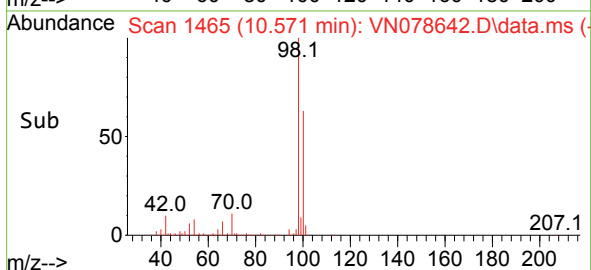
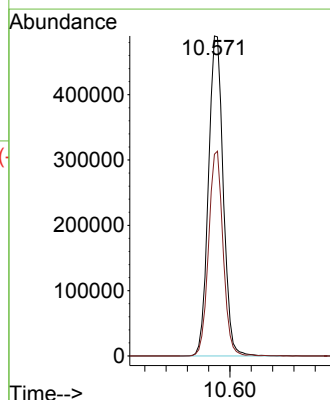
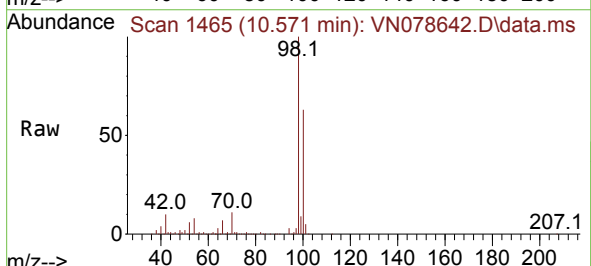
Acq: 25 Jul 2023 12:19

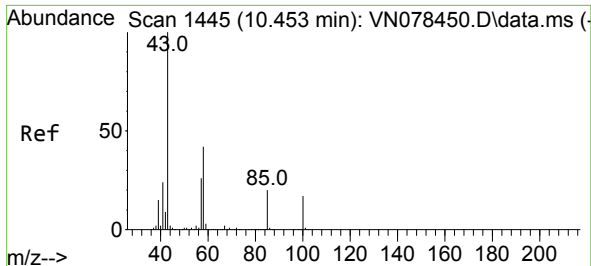
Tgt Ion: 98 Resp: 943485

Ion Ratio Lower Upper

98 100

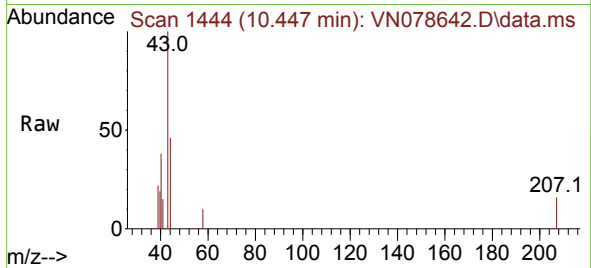
100 62.6 52.0 78.0



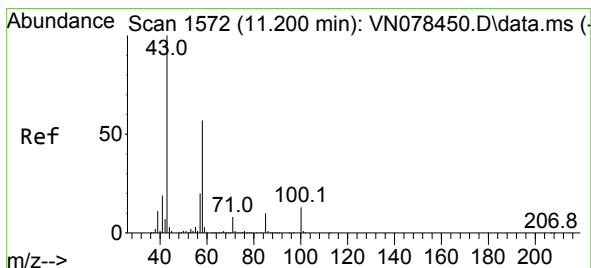
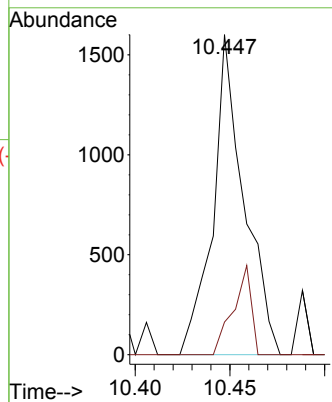
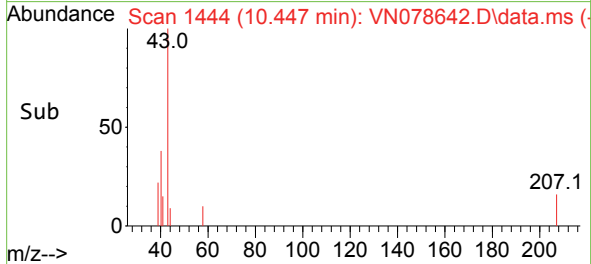


#51
4-Methyl-2-Pentanone
Concen: 0.289 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBL01

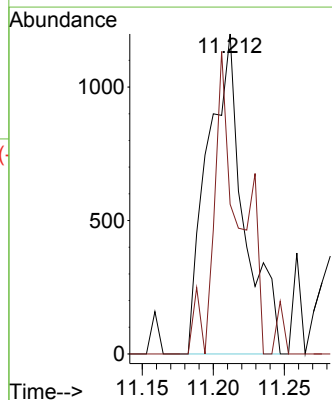
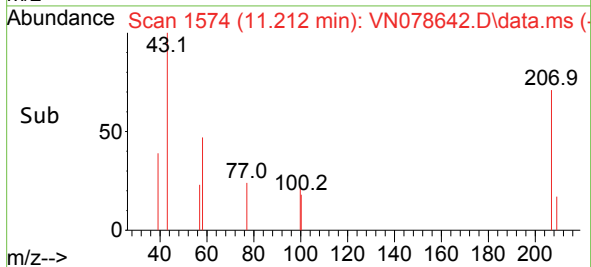
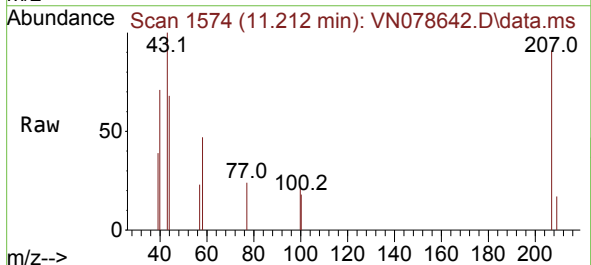


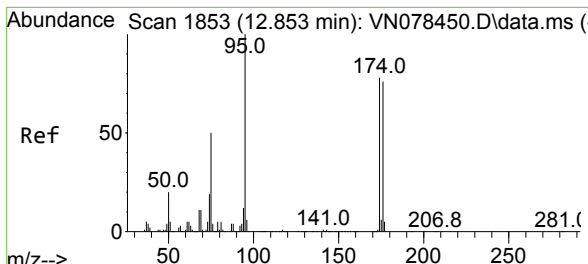
Tgt Ion: 43 Resp: 1826
Ion Ratio Lower Upper
43 100
58 16.2 36.6 54.8#



#59
2-Hexanone
Concen: 0.477 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

Tgt Ion: 43 Resp: 2145
Ion Ratio Lower Upper
43 100
58 66.1 31.7 95.1

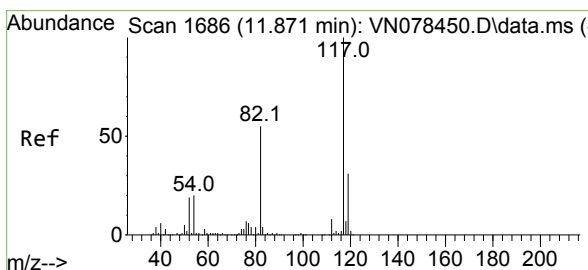
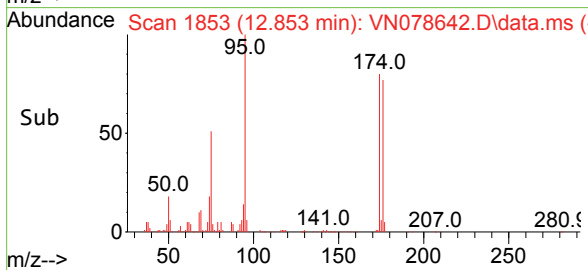
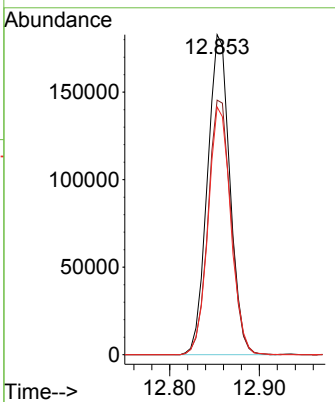
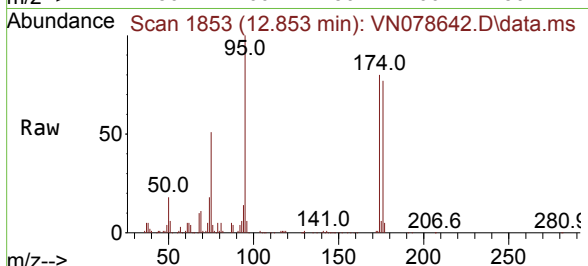




#62
 4-Bromofluorobenzene
 Concen: 51.028 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN078642.D
 Acq: 25 Jul 2023 12:19

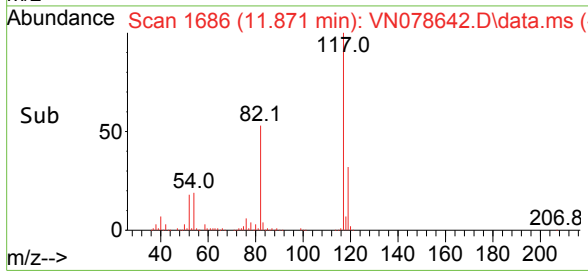
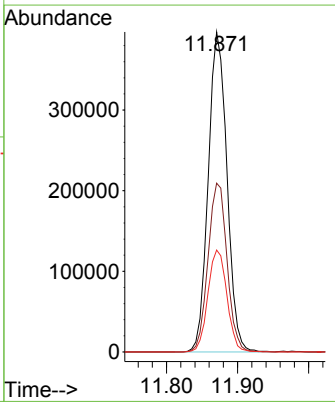
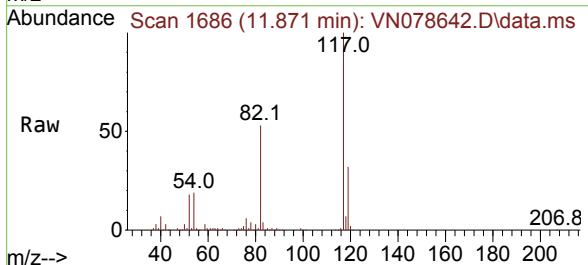
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0725WBL01

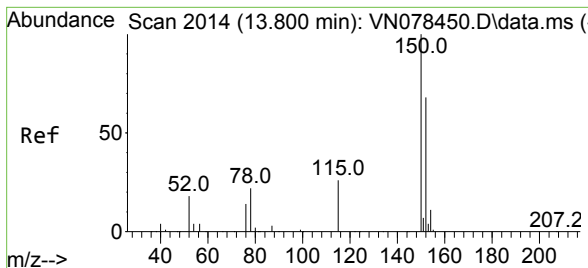
Tgt Ion:	95	Resp:	318581
Ion Ratio	Lower	Upper	
95	100		
174	80.6	0.0	143.8
176	78.0	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. -0.000 min
 Lab File: VN078642.D
 Acq: 25 Jul 2023 12:19

Tgt Ion:	117	Resp:	725421
Ion Ratio	Lower	Upper	
117	100		
82	52.7	44.0	66.0
119	31.8	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN078642.D

Acq: 25 Jul 2023 12:19

Instrument :

MSVOA_N

ClientSampleId :

VN0725WBL01

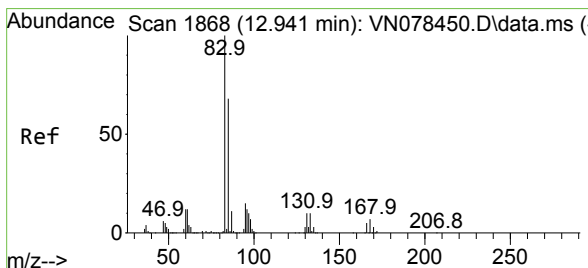
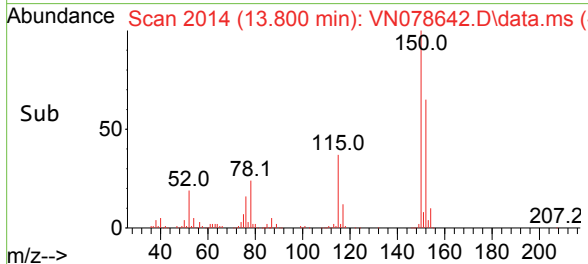
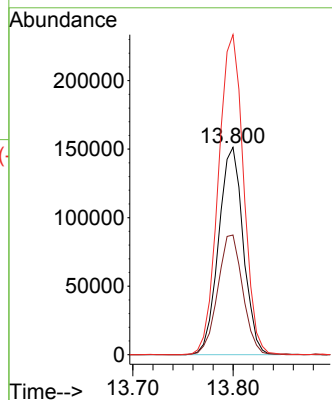
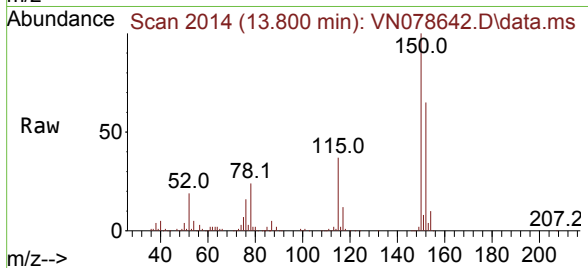
Tgt Ion:152 Resp: 257999

Ion Ratio Lower Upper

152 100

115 58.6 32.3 96.8

150 157.4 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.935 min Scan# 1867

Delta R.T. -0.006 min

Lab File: VN078642.D

Acq: 25 Jul 2023 12:19

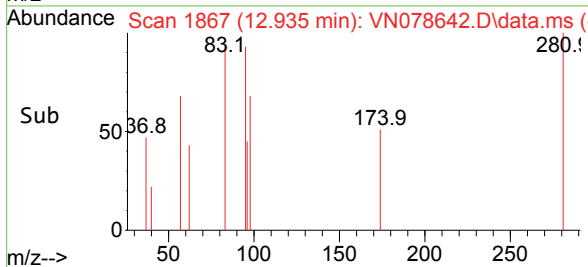
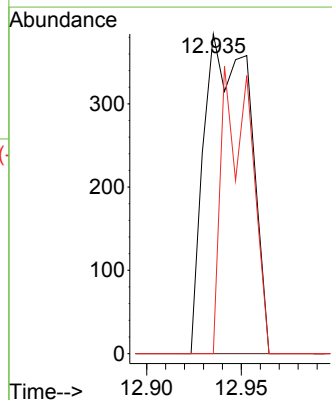
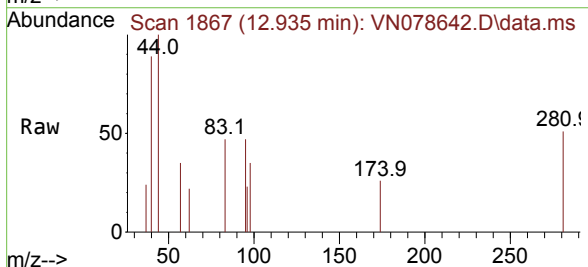
Tgt Ion: 83 Resp: 643

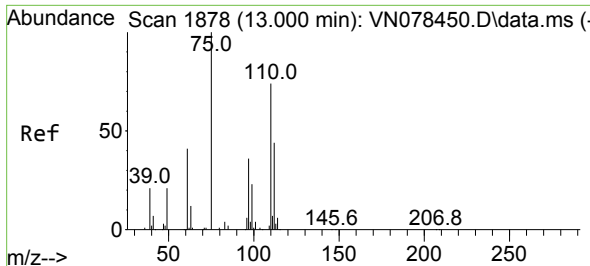
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 57.4 31.9 95.7

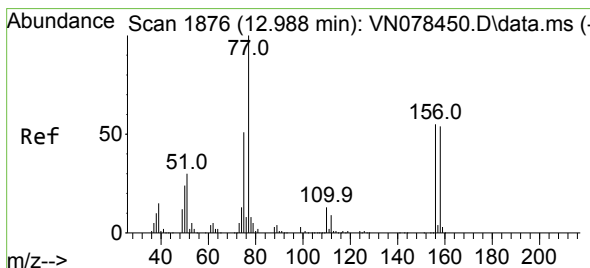
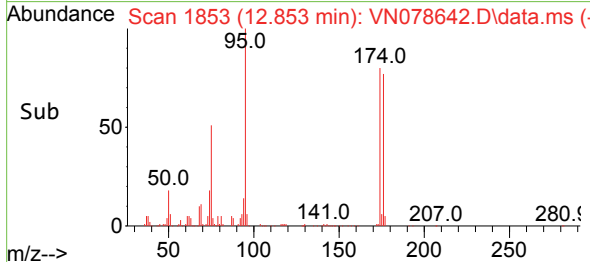
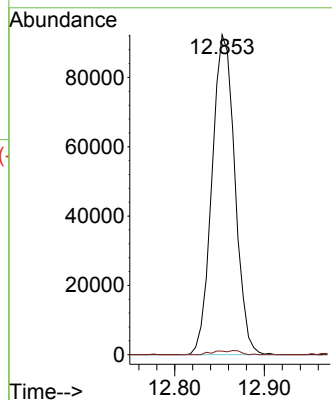
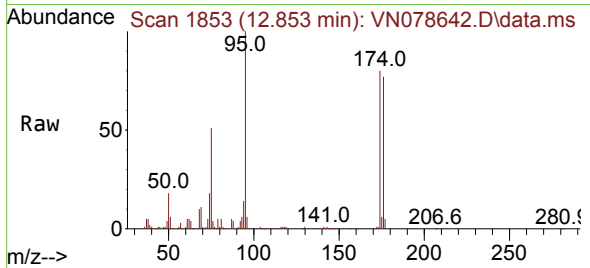




#76
1,2,3-Trichloropropane
Concen: 26.222 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

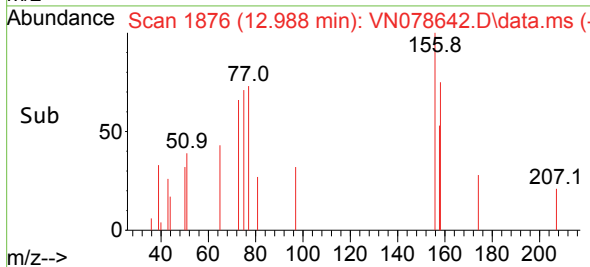
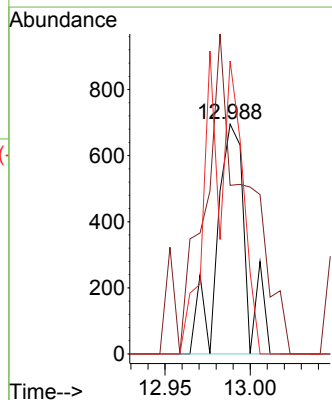
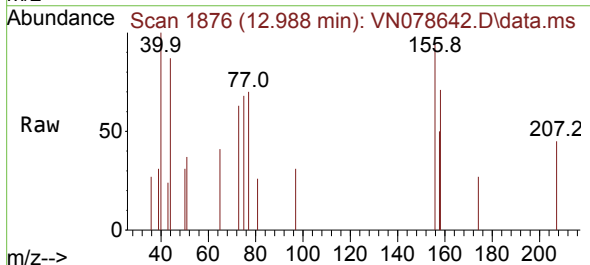
Instrument :
MSVOA_N
ClientSampleId :
VN0725WBL01

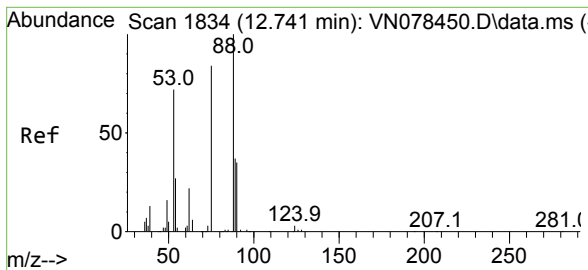
Tgt Ion: 75 Resp: 163523
Ion Ratio Lower Upper
75 100
77 0.9 84.5 253.5#



#77
Bromobenzene
Concen: Below Cal
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

Tgt Ion:156 Resp: 826
Ion Ratio Lower Upper
156 100
77 208.1 107.7 323.3
158 147.0 48.4 145.3#

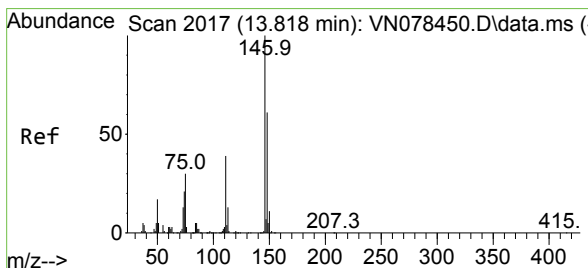
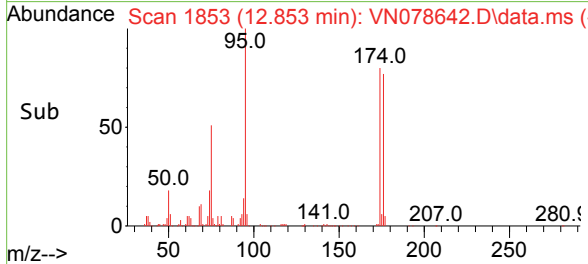
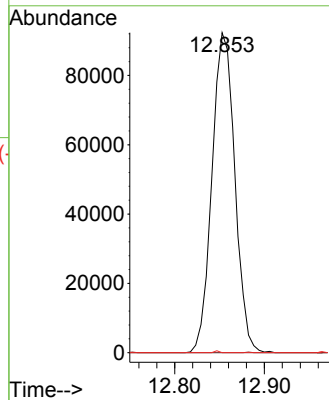
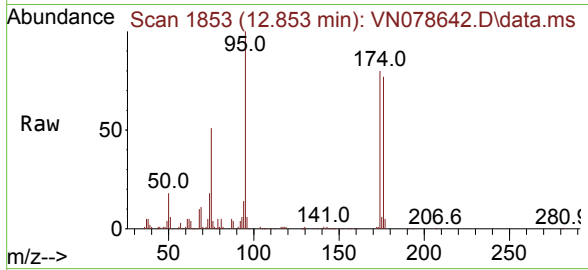




#81
trans-1,4-Dichloro-2-butene
Concen: 68.906 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

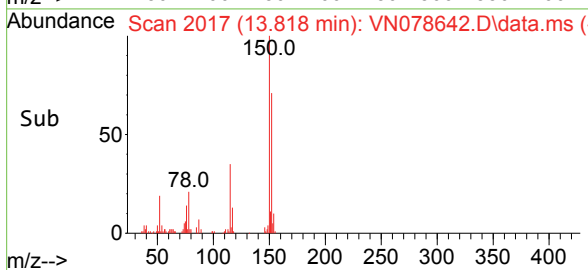
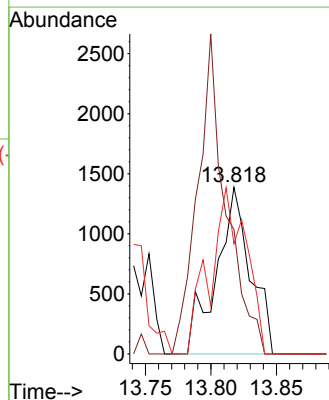
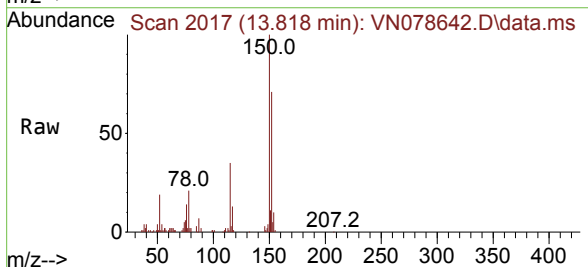
Instrument :
MSVOA_N
ClientSampleId :
VN0725WBL01

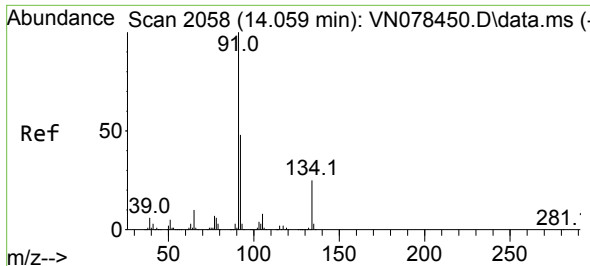
Tgt Ion: 75 Resp: 163523
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#



#88
1,4-Dichlorobenzene
Concen: 0.268 ug/l
RT: 13.818 min Scan# 2017
Delta R.T. -0.000 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

Tgt Ion: 146 Resp: 2508
Ion Ratio Lower Upper
146 100
111 160.3 20.6 61.8#
148 105.2 31.6 94.8#

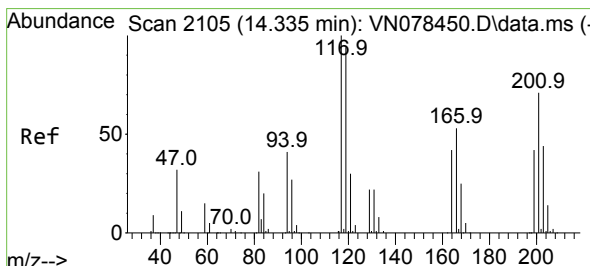
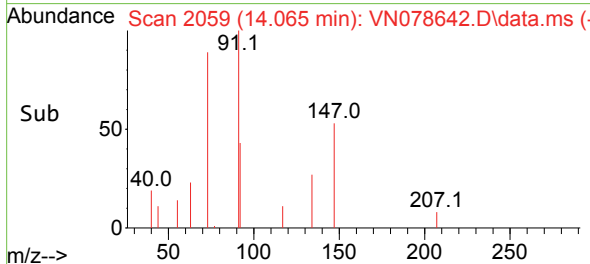
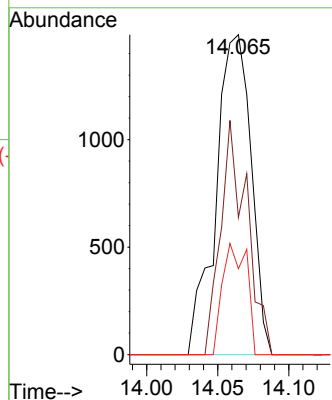
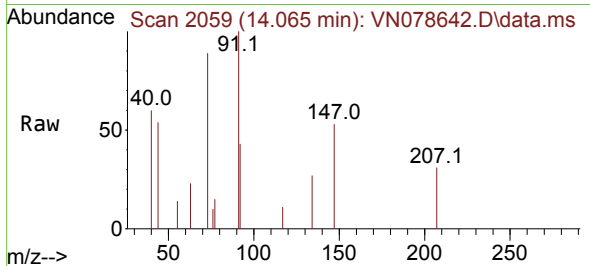




#89
n-Butylbenzene
Concen: 0.218 ug/l
RT: 14.065 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

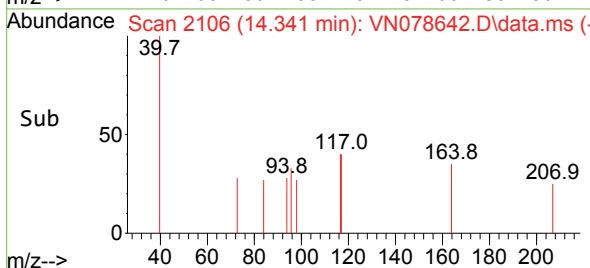
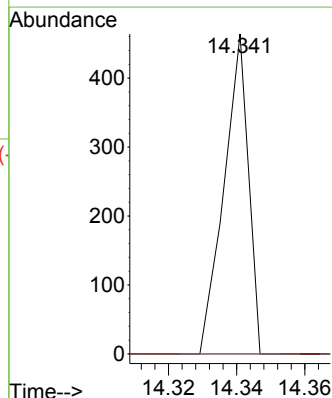
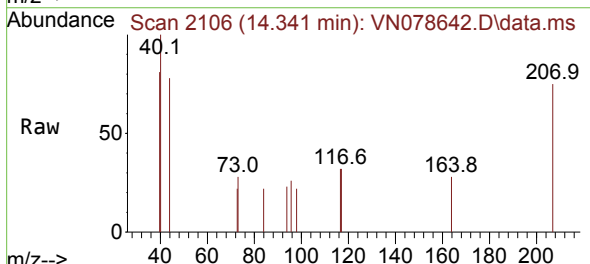
Instrument :
MSVOA_N
ClientSampleId :
VN0725WBL01

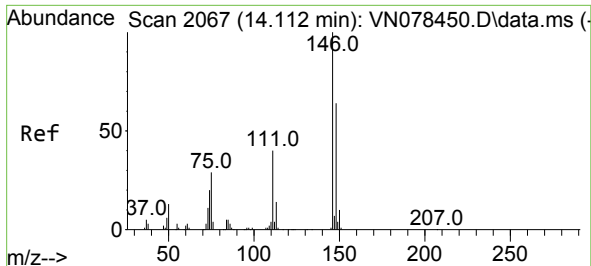
Tgt Ion: 91 Resp: 2572
Ion Ratio Lower Upper
91 100
92 54.4 26.4 79.0
134 23.7 12.6 37.6



#90
Hexachloroethane
Concen: Below Cal
RT: 14.341 min Scan# 2106
Delta R.T. 0.006 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

Tgt Ion: 117 Resp: 231
Ion Ratio Lower Upper
117 100
201 0.0 29.3 88.0#

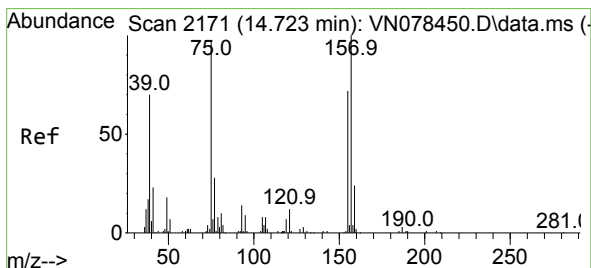
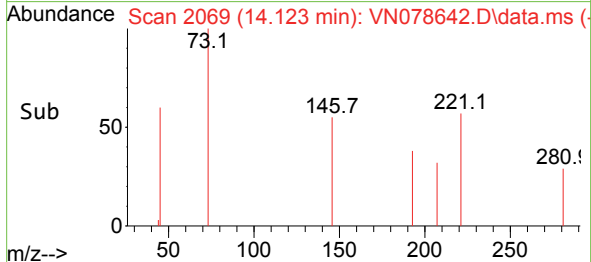
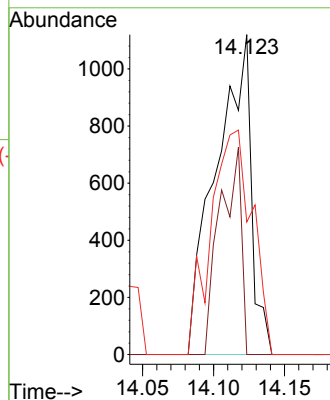
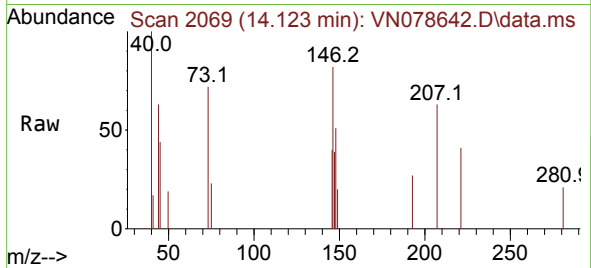




#91
 1,2-Dichlorobenzene
 Concen: 0.208 ug/l
 RT: 14.123 min Scan# 2069
 Delta R.T. 0.011 min
 Lab File: VN078642.D
 Acq: 25 Jul 2023 12:19

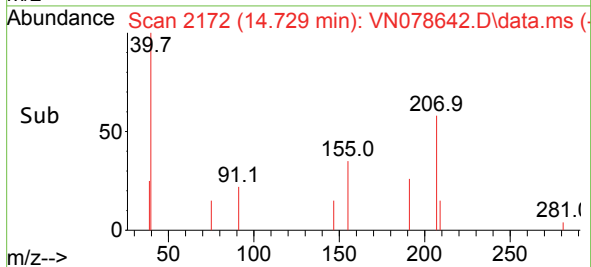
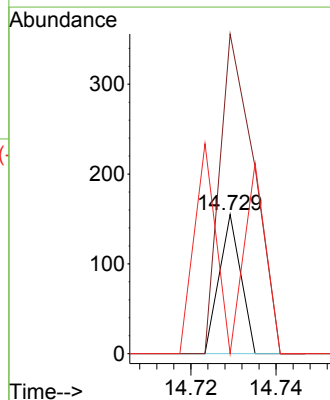
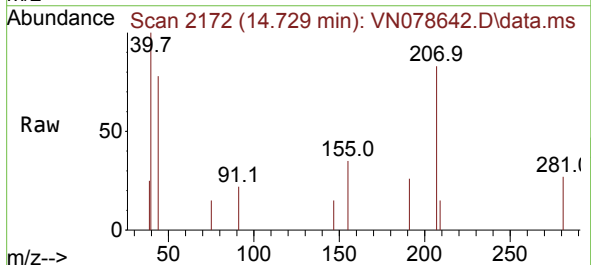
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0725WBL01

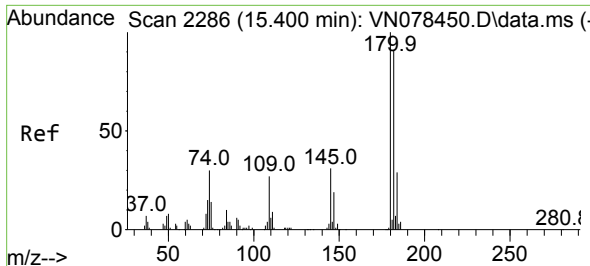
Tgt Ion:146 Resp: 1930
 Ion Ratio Lower Upper
 146 100
 111 39.6 22.0 66.0
 148 82.3 31.8 95.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.729 min Scan# 2172
 Delta R.T. 0.006 min
 Lab File: VN078642.D
 Acq: 25 Jul 2023 12:19

Tgt Ion: 75 Resp: 55
 Ion Ratio Lower Upper
 75 100
 155 361.8 39.1 117.2#
 157 285.5 50.3 150.9#

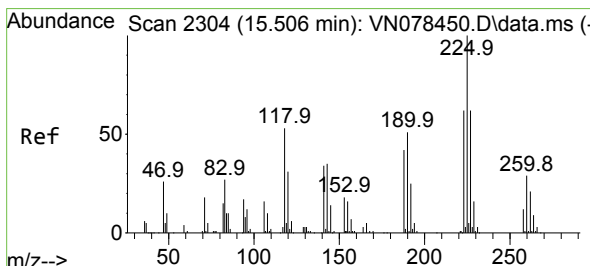
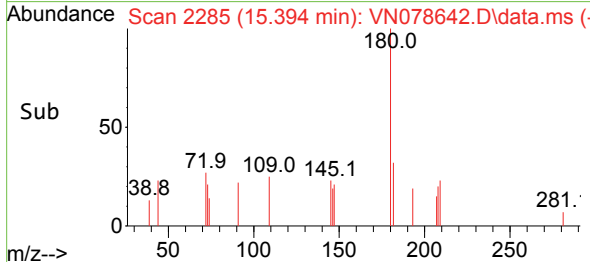
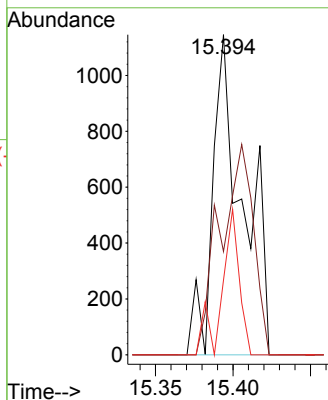
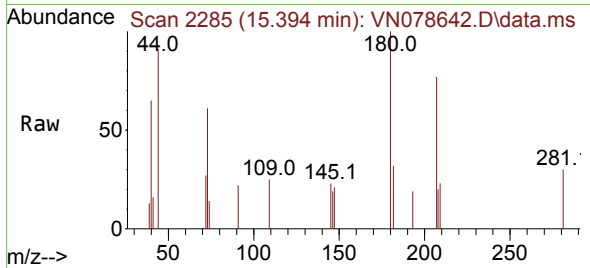




#93
1,2,4-Trichlorobenzene
Concen: 0.524 ug/l
RT: 15.394 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

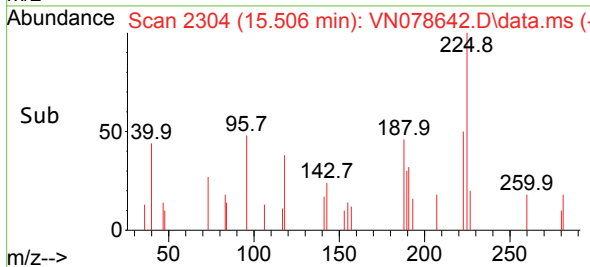
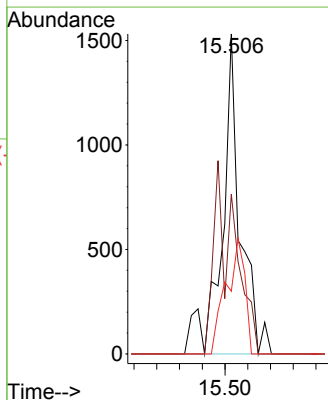
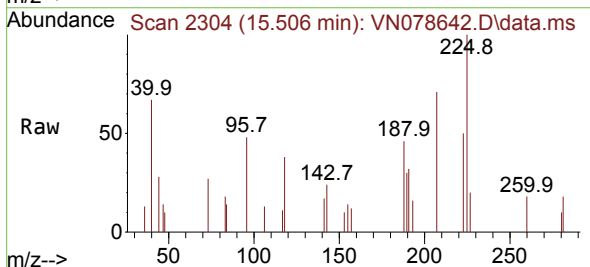
Instrument :
MSVOA_N
ClientSampleId :
VN0725WBL01

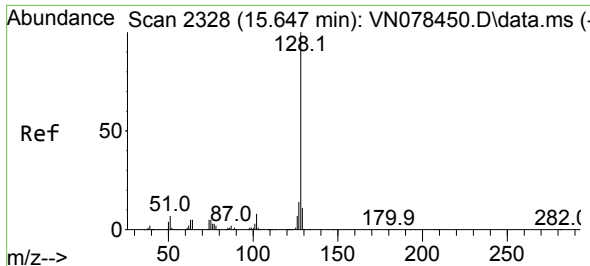
Tgt Ion:180 Resp: 1550
Ion Ratio Lower Upper
180 100
182 72.4 46.1 138.2
145 26.5 16.6 49.8



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.506 min Scan# 2304
Delta R.T. -0.000 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

Tgt Ion:225 Resp: 1705
Ion Ratio Lower Upper
225 100
223 68.0 31.3 93.8
227 37.0 31.9 95.9

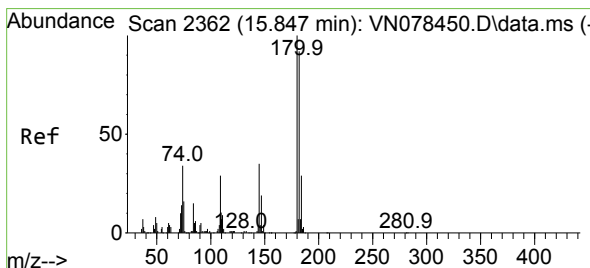
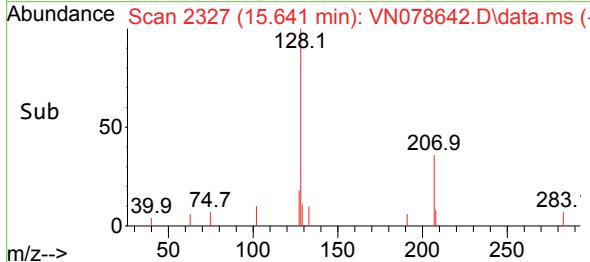
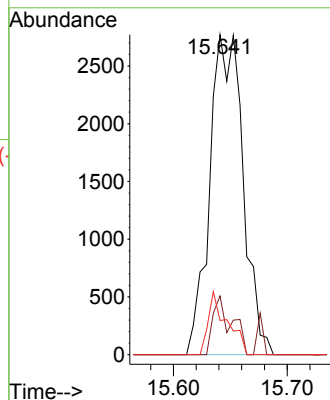
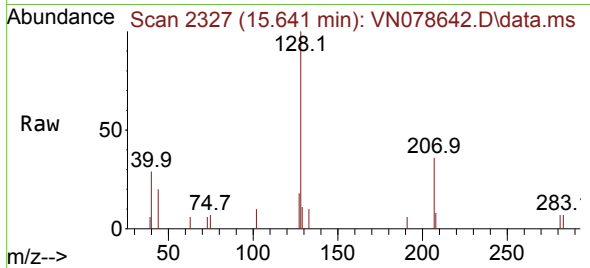




#95
Naphthalene
Concen: 0.558 ug/l
RT: 15.641 min Scan# 2328
Delta R.T. -0.006 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

Instrument :
MSVOA_N
ClientSampleId :
VN0725WBL01

Tgt Ion:128	Resp:	5642
Ion Ratio	Lower	Upper
128	100	
127	10.4	10.0 15.0
129	11.1	8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.517 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.006 min
Lab File: VN078642.D
Acq: 25 Jul 2023 12:19

Tgt Ion:180	Resp:	1756
Ion Ratio	Lower	Upper
180	100	
182	114.1	46.2 138.6
145	36.5	17.5 52.6

