

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072123\
 Data File : VN078610.D
 Acq On : 21 Jul 2023 13:47
 Operator : JC\MD
 Sample : 03709-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EB-01-072023

Quant Time: Jul 21 23:22:31 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)

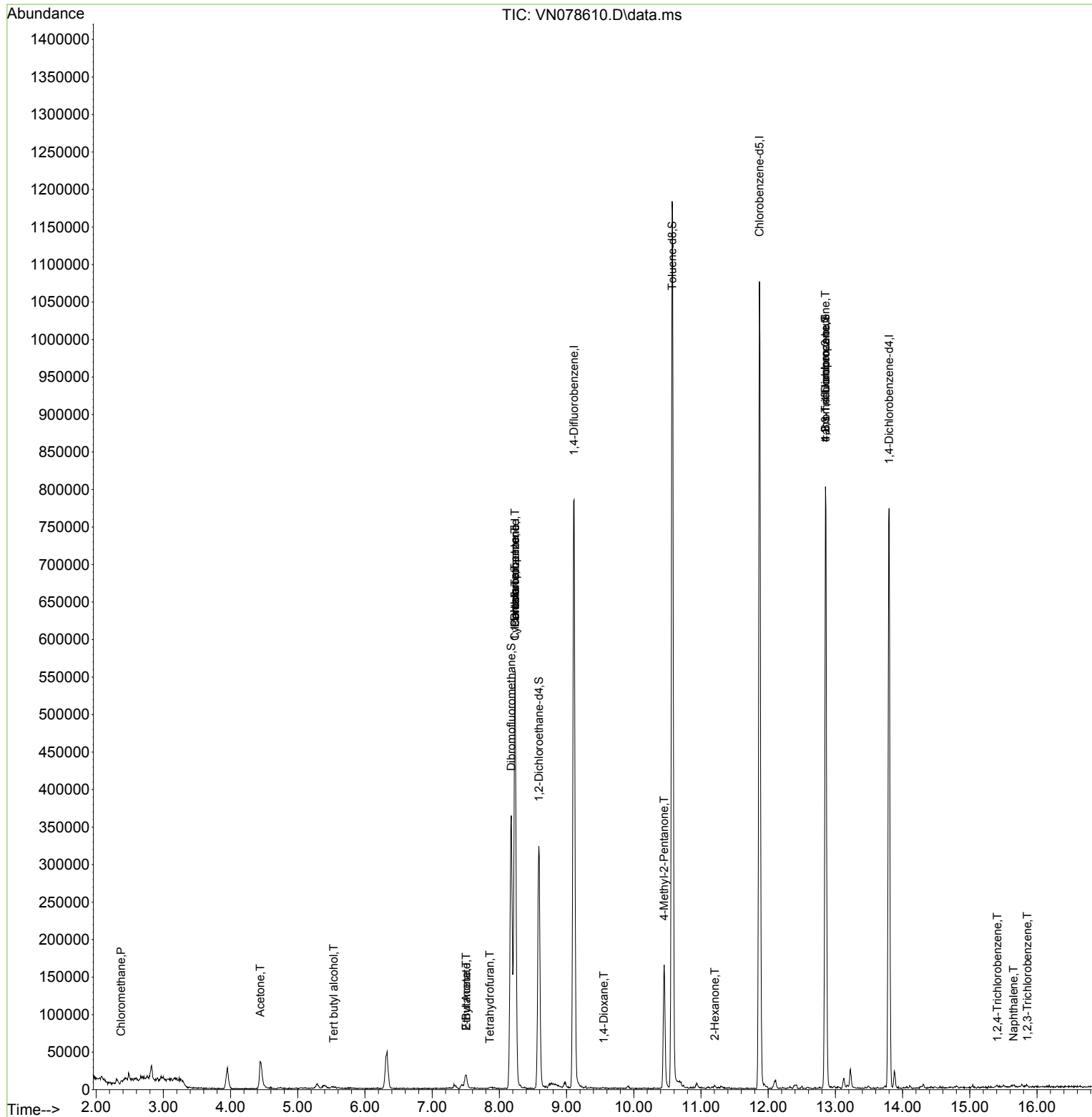
Internal Standards						
1) Pentafluorobenzene	8.235	168	406824	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	726344	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	656782	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	218598	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	265145	48.616	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.240%		
35) Dibromofluoromethane	8.177	113	267424	54.237	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	108.480%		
50) Toluene-d8	10.571	98	870519	46.735	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.480%		
62) 4-Bromofluorobenzene	12.853	95	279430	48.704	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	97.400%		
Target Compounds						Qvalue
3) Chloromethane	2.371	50	1907	0.352	ug/l #	84
5) Bromomethane	2.977	94	2620	Below Cal	#	57
6) Chloroethane	3.130	64	1422	Below Cal	#	67
11) Tert butyl alcohol	5.536	59	1411	1.678	ug/l #	85
16) Acetone	4.442	43	66277	39.012	ug/l	99
20) Methylene Chloride	5.283	84	4354	Below Cal	#	79
25) 2-Butanone	7.506	43	30235	11.306	ug/l #	72
29) Tetrahydrofuran	7.859	42	1273	0.725	ug/l #	56
31) Cyclohexane	8.230	56	10351	1.404	ug/l #	60
36) 1,1-Dichloropropene	8.230	75	32093	4.508	ug/l #	48
37) Ethyl Acetate	7.506	43	30235	5.094	ug/l #	64
38) Carbon Tetrachloride	8.235	117	43365	5.604	ug/l #	16
49) 1,4-Dioxane	9.553	88	62	0.628	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	111899	19.253	ug/l	90
59) 2-Hexanone	11.206	43	2499	0.605	ug/l	66
75) 1,1,2,2-Tetrachloroethane	12.953	83	310	Below Cal	#	12
76) 1,2,3-Trichloropropane	12.853	75	145922	27.617	ug/l #	1
77) Bromobenzene	12.988	156	315	Below Cal		98
81) trans-1,4-Dichloro-2-b...	12.853	75	145922	72.572	ug/l #	15
90) Hexachloroethane	14.347	117	74	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.735	75	57	Below Cal	#	26
93) 1,2,4-Trichlorobenzene	15.411	180	1092	0.436	ug/l #	69
94) Hexachlorobutadiene	15.500	225	645	Below Cal	#	57
95) Naphthalene	15.653	128	3156	0.369	ug/l #	74
96) 1,2,3-Trichlorobenzene	15.858	180	633	0.220	ug/l #	14

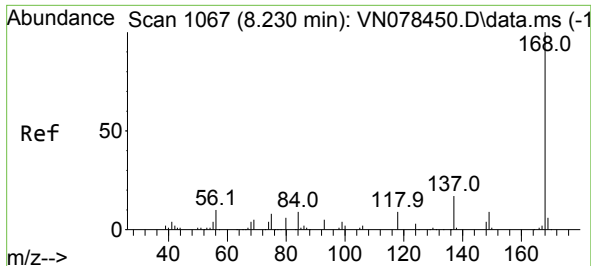
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 21 23:22:31 2023
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Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

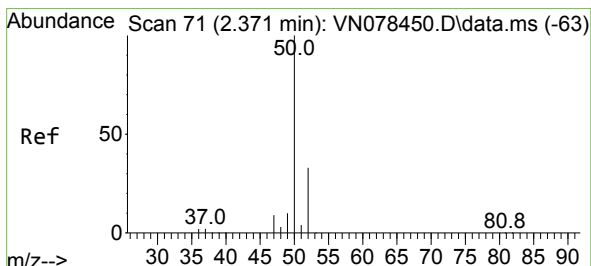
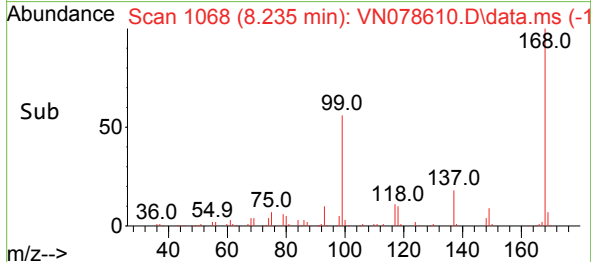
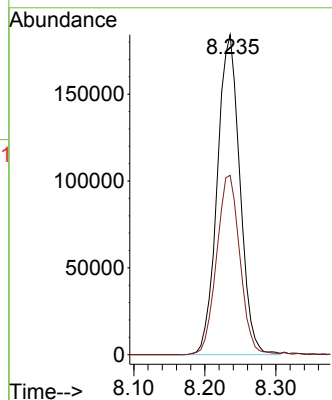
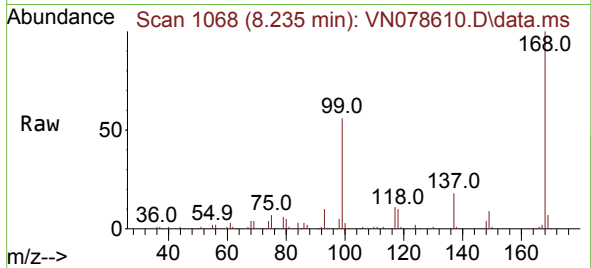




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. 0.005 min
Lab File: VN078610.D
Acq: 21 Jul 2023 13:47

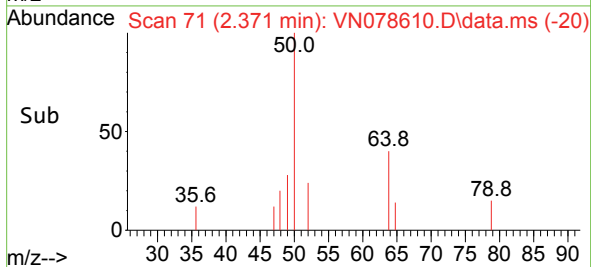
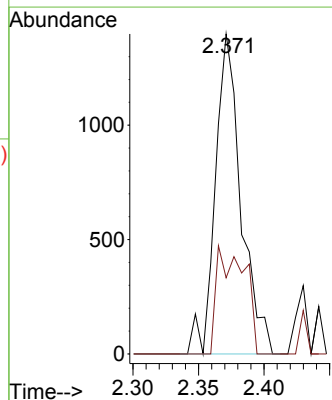
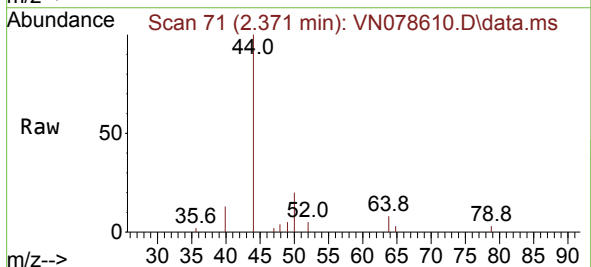
Instrument :
MSVOA_N
ClientSampleId :
EB-01-072023

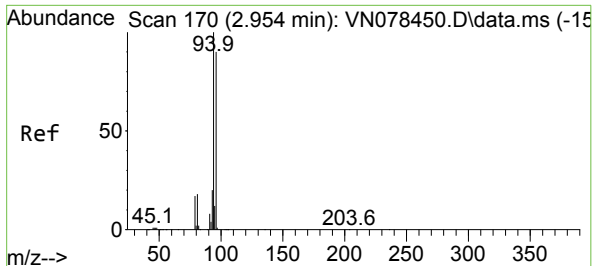
Tgt Ion:168 Resp: 406824
Ion Ratio Lower Upper
168 100
99 56.0 53.0 79.6



#3
Chloromethane
Concen: 0.352 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078610.D
Acq: 21 Jul 2023 13:47

Tgt Ion: 50 Resp: 1907
Ion Ratio Lower Upper
50 100
52 23.8 26.5 39.7#

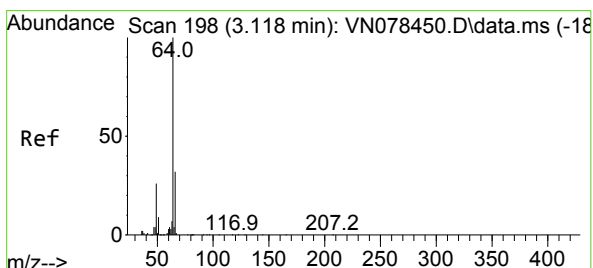
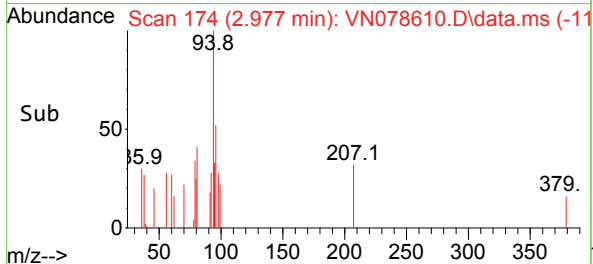
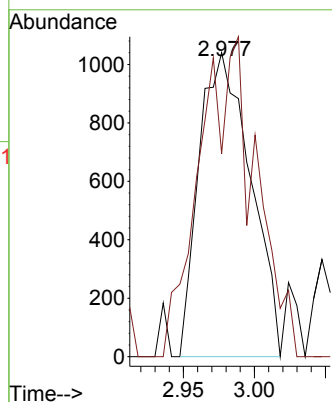
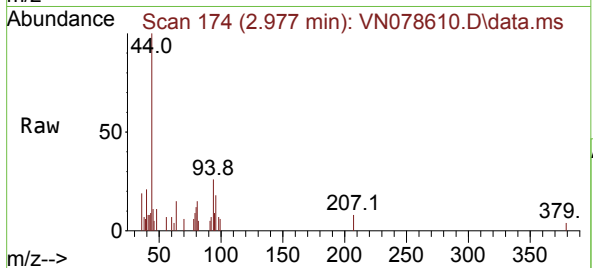




#5
Bromomethane
Concen: Below Cal
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN078610.D
Acq: 21 Jul 2023 13:47

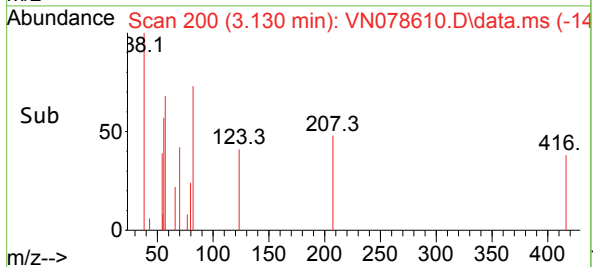
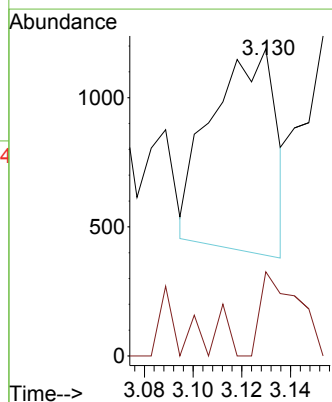
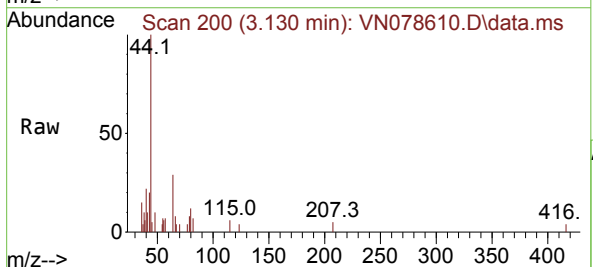
Instrument :
MSVOA_N
ClientSampleId :
EB-01-072023

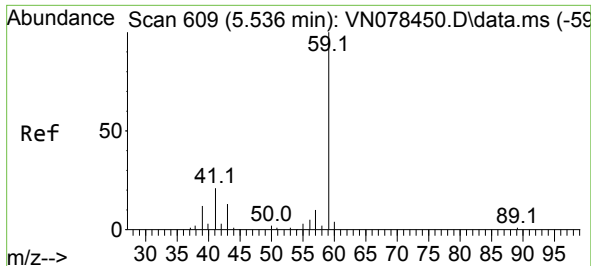
Tgt Ion: 94 Resp: 2620
Ion Ratio Lower Upper
94 100
96 51.0 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN078610.D
Acq: 21 Jul 2023 13:47

Tgt Ion: 64 Resp: 1422
Ion Ratio Lower Upper
64 100
66 50.1 25.4 38.2#

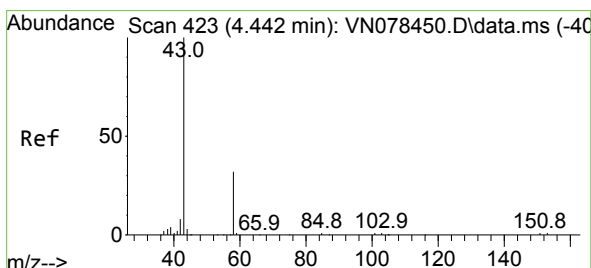
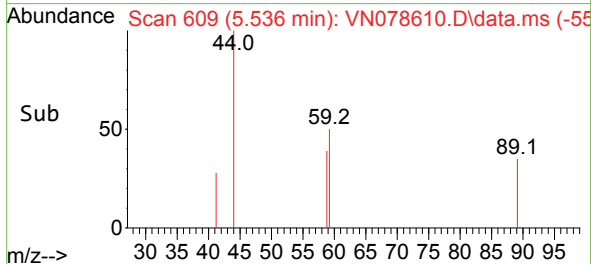
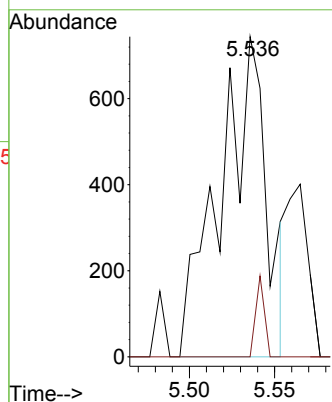
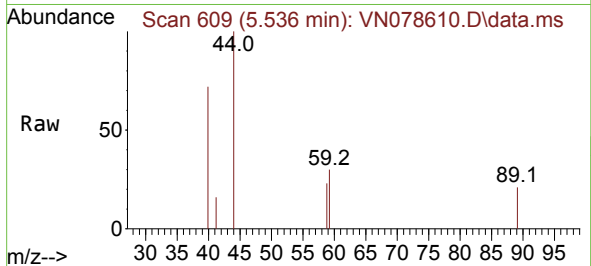




#11
Tert butyl alcohol
Concen: 1.678 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.000 min
Lab File: VN078610.D
Acq: 21 Jul 2023 13:47

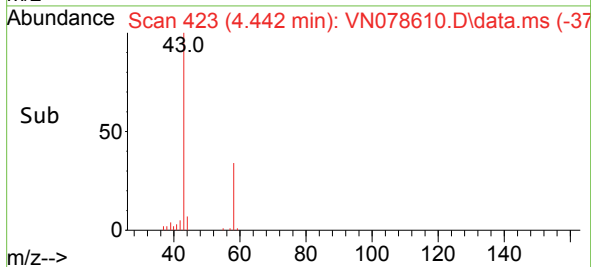
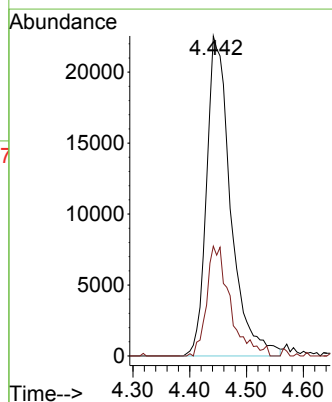
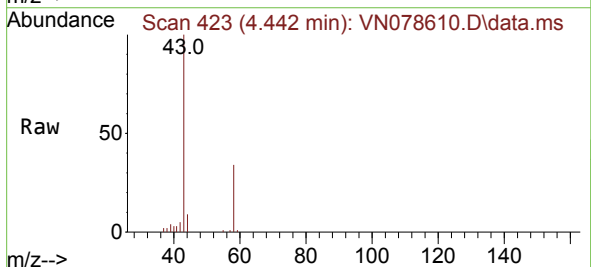
Instrument :
MSVOA_N
ClientSampleId :
EB-01-072023

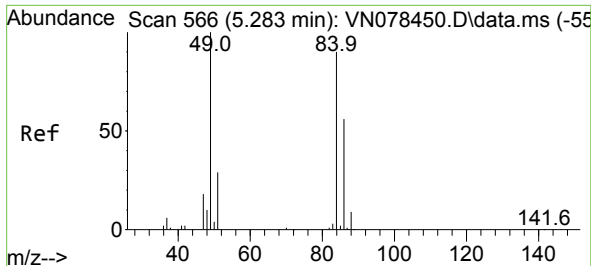
Tgt Ion: 59 Resp: 1411
Ion Ratio Lower Upper
59 100
57 4.7 8.2 12.4#



#16
Acetone
Concen: 39.012 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.000 min
Lab File: VN078610.D
Acq: 21 Jul 2023 13:47

Tgt Ion: 43 Resp: 66277
Ion Ratio Lower Upper
43 100
58 34.3 28.0 42.0

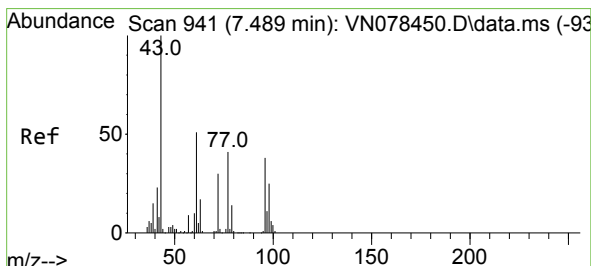
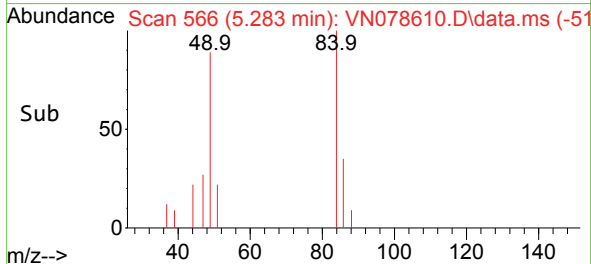
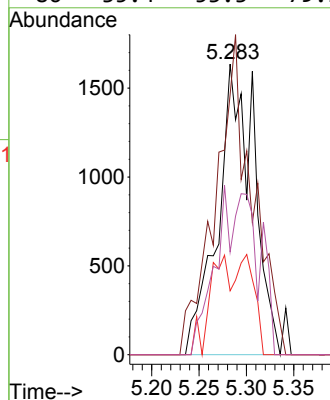
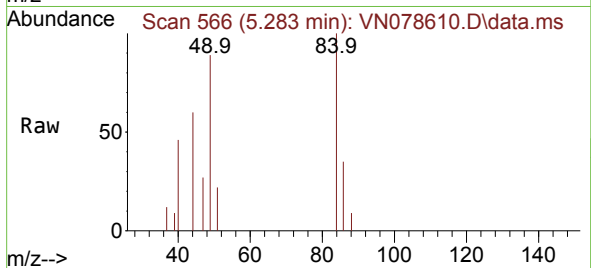




#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN078610.D
Acq: 21 Jul 2023 13:47

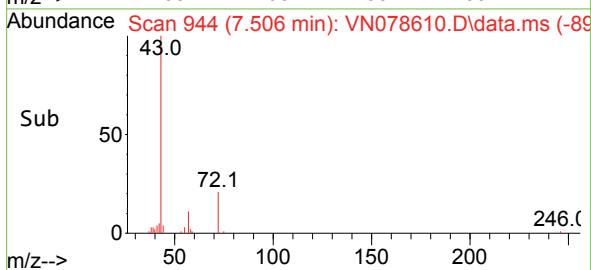
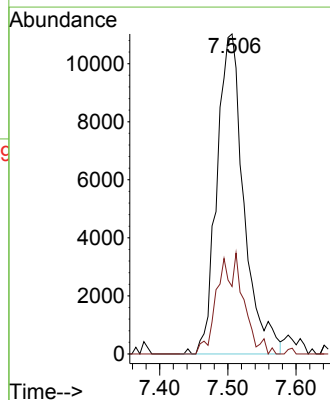
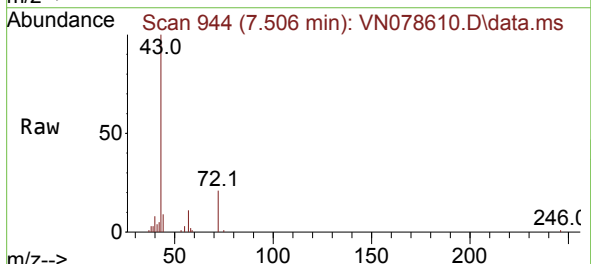
Instrument :
MSVOA_N
ClientSampleId :
EB-01-072023

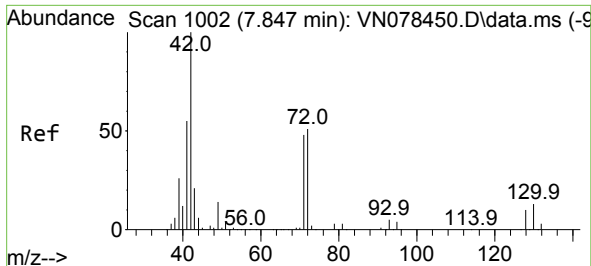
Tgt Ion:	84	Resp:	4354
Ion	Ratio	Lower	Upper
84	100		
49	89.5	79.7	119.5
51	22.0	25.2	37.8#
86	35.4	53.3	79.9#



#25
2-Butanone
Concen: 11.306 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.017 min
Lab File: VN078610.D
Acq: 21 Jul 2023 13:47

Tgt Ion:	43	Resp:	30235
Ion	Ratio	Lower	Upper
43	100		
72	21.1	30.2	45.2#





#29

Tetrahydrofuran

Concen: 0.725 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.012 min

Lab File: VN078610.D

Acq: 21 Jul 2023 13:47

Instrument :

MSVOA_N

ClientSampleId :

EB-01-072023

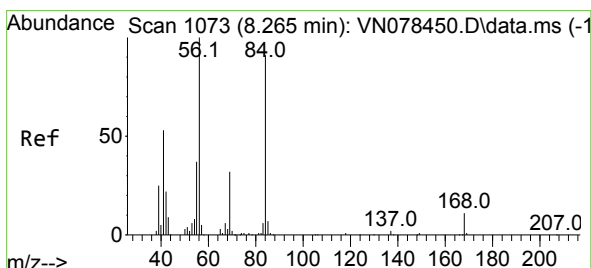
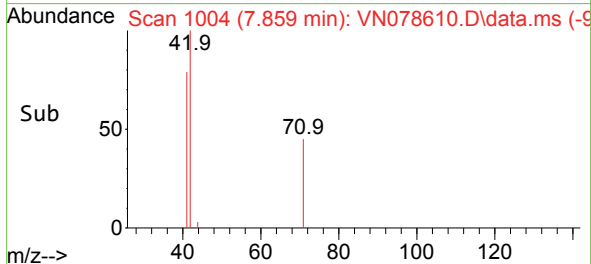
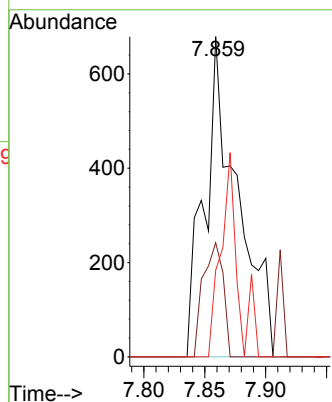
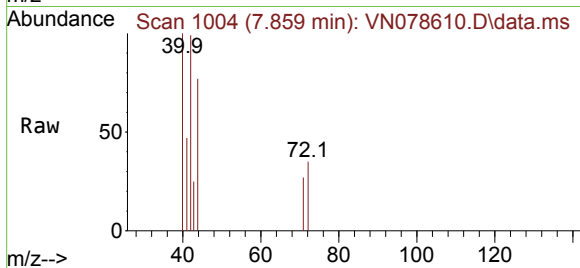
Tgt Ion: 42 Resp: 1273

Ion Ratio Lower Upper

42 100

72 21.6 49.8 74.6#

71 32.8 47.4 71.2#



#31

Cyclohexane

Concen: 1.404 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN078610.D

Acq: 21 Jul 2023 13:47

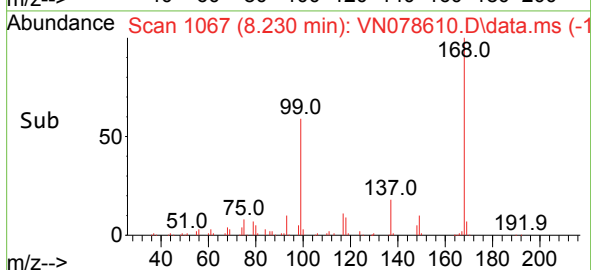
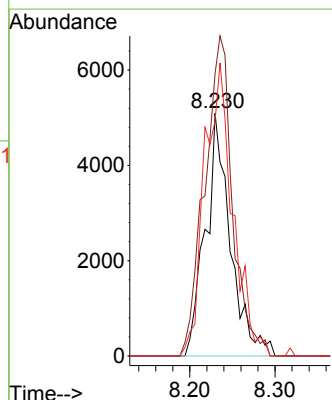
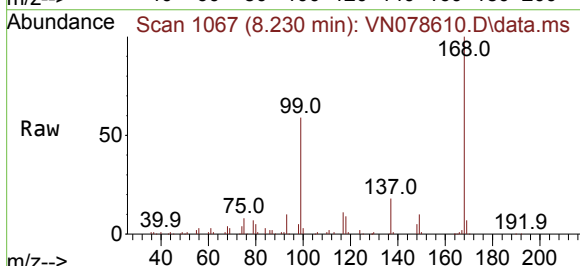
Tgt Ion: 56 Resp: 10351

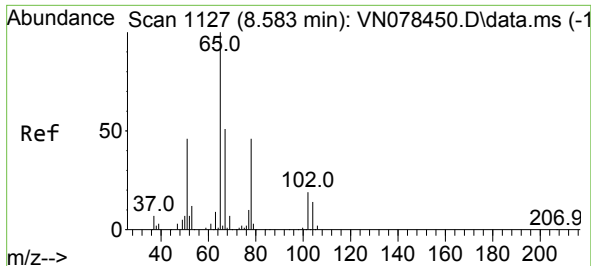
Ion Ratio Lower Upper

56 100

69 116.4 26.8 40.2#

84 96.8 81.8 122.6

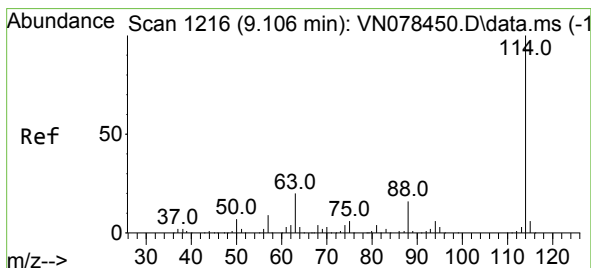
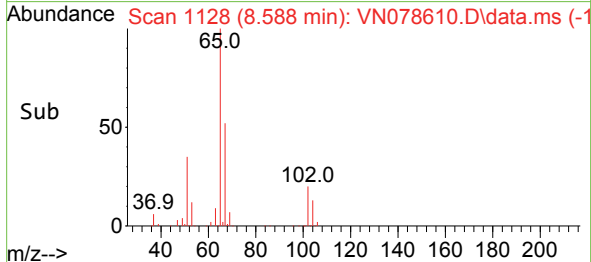
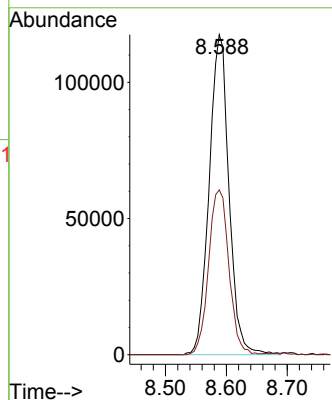
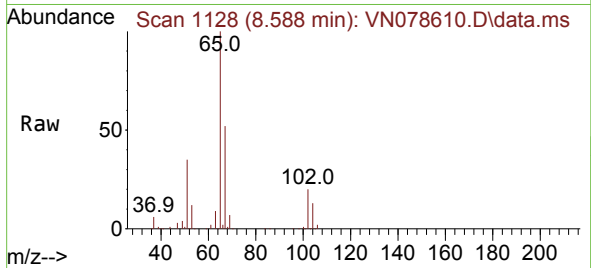




#33
 1,2-Dichloroethane-d4
 Concen: 48.616 ug/l
 RT: 8.588 min Scan# 1128
 Delta R.T. 0.005 min
 Lab File: VN078610.D
 Acq: 21 Jul 2023 13:47

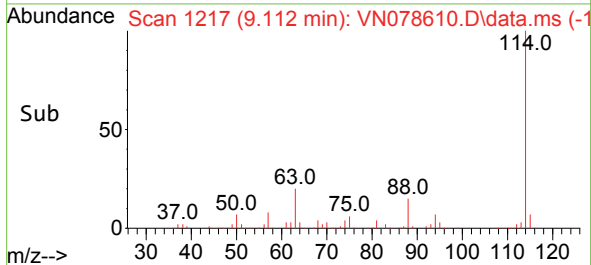
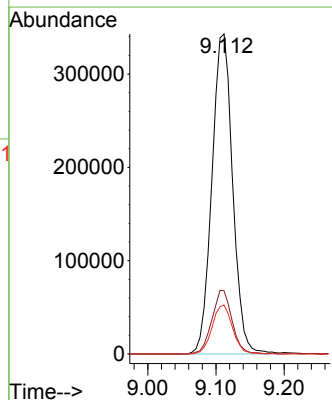
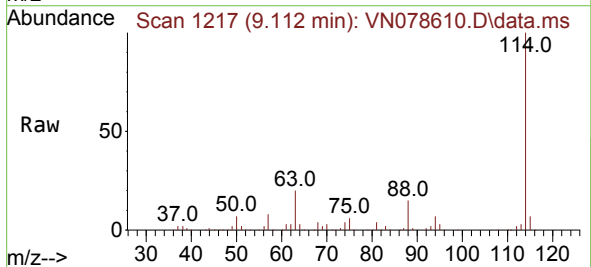
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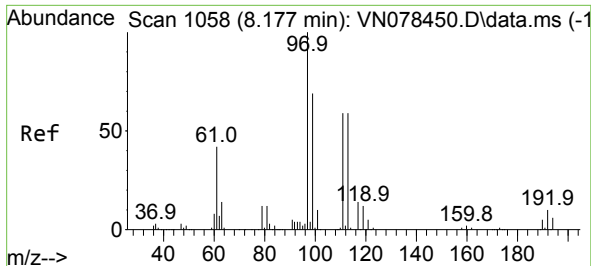
Tgt Ion: 65 Resp: 265145
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.112 min Scan# 1217
 Delta R.T. 0.006 min
 Lab File: VN078610.D
 Acq: 21 Jul 2023 13:47

Tgt Ion: 114 Resp: 726344
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 36.4
 88 15.3 0.0 30.6

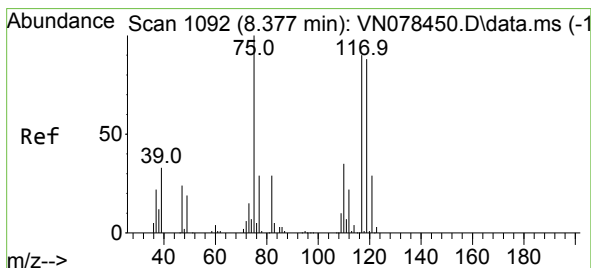
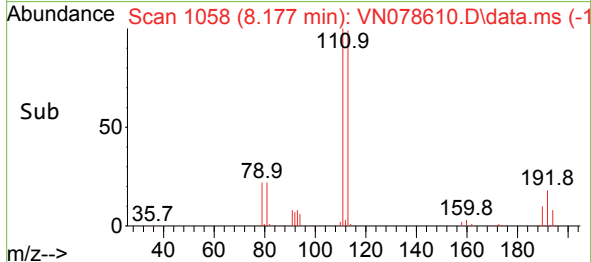
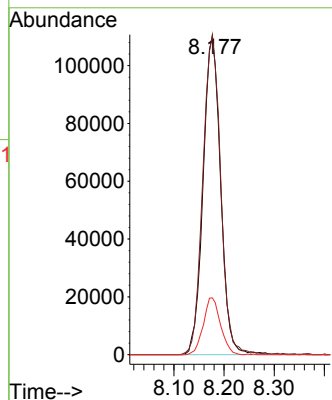
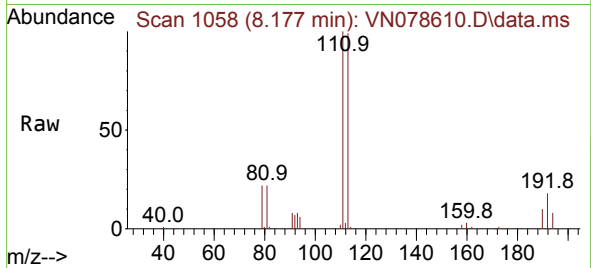




#35
Dibromofluoromethane
Concen: 54.237 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078610.D
Acq: 21 Jul 2023 13:47

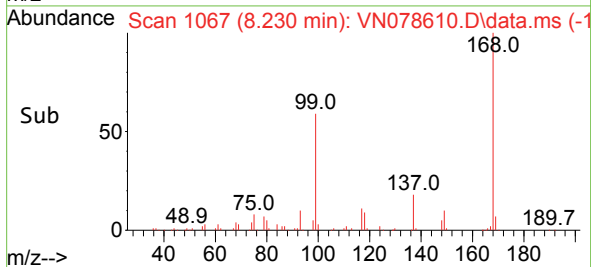
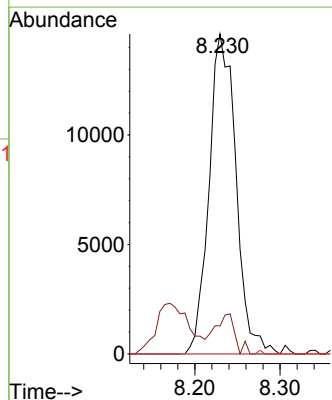
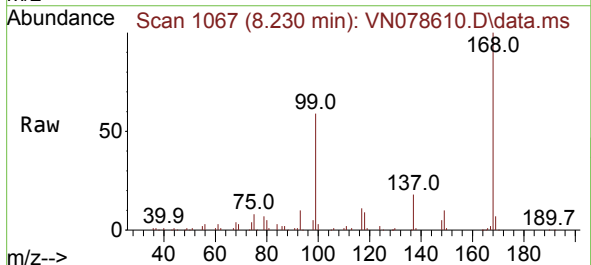
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EB-01-072023

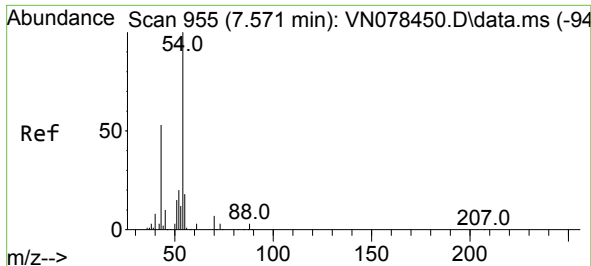
Tgt Ion:113 Resp: 267424
Ion Ratio Lower Upper
113 100
111 102.4 82.6 123.8
192 17.6 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.508 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078610.D
Acq: 21 Jul 2023 13:47

Tgt Ion: 75 Resp: 32093
Ion Ratio Lower Upper
75 100
110 9.4 19.1 57.3#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 5.094 ug/l

RT: 7.506 min Scan# 94

Delta R.T. -0.065 min

Lab File: VN078610.D

Acq: 21 Jul 2023 13:47

Instrument :

MSVOA_N

ClientSampleId :

EB-01-072023

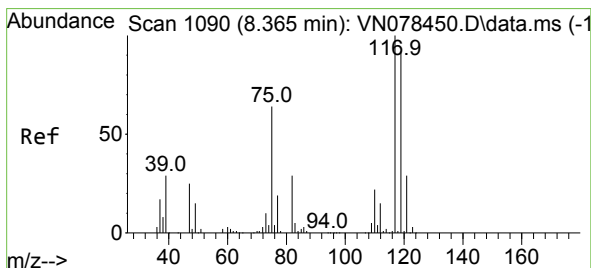
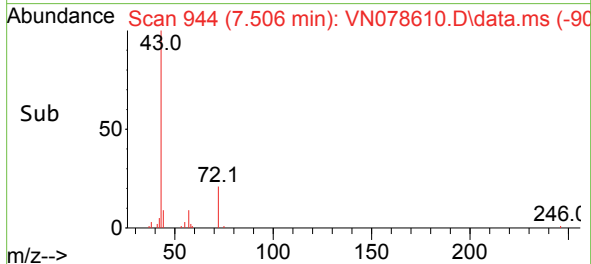
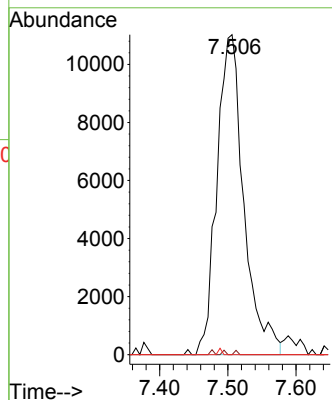
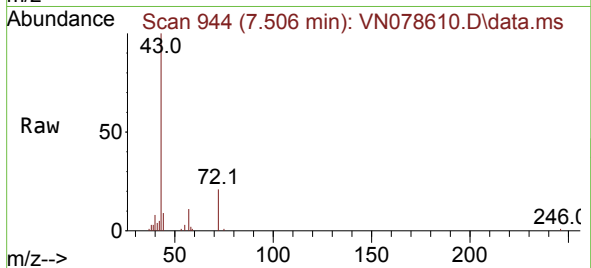
Tgt Ion: 43 Resp: 30235

Ion Ratio Lower Upper

43 100

61 0.2 13.2 19.8#

70 0.0 11.3 16.9#



#38

Carbon Tetrachloride

Concen: 5.604 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.130 min

Lab File: VN078610.D

Acq: 21 Jul 2023 13:47

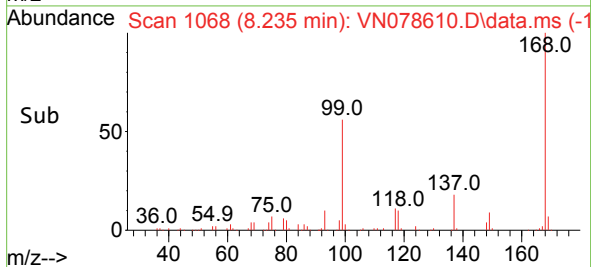
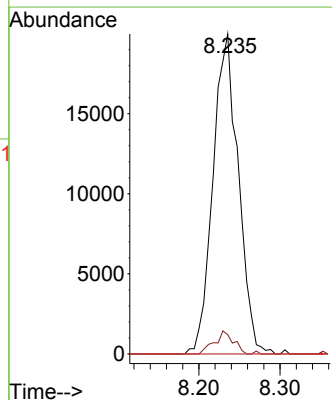
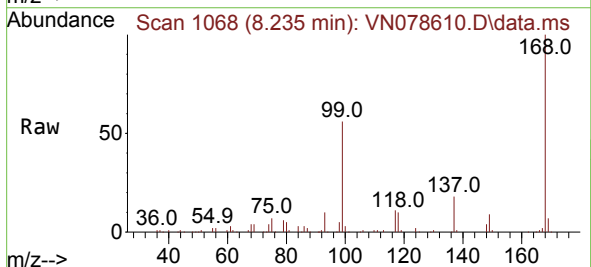
Tgt Ion: 117 Resp: 43365

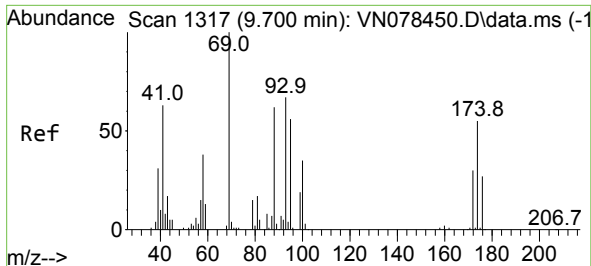
Ion Ratio Lower Upper

117 100

119 6.1 77.3 115.9#

121 0.0 23.3 34.9#





#49

1,4-Dioxane

Concen: 0.628 ug/l

RT: 9.553 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN078610.D

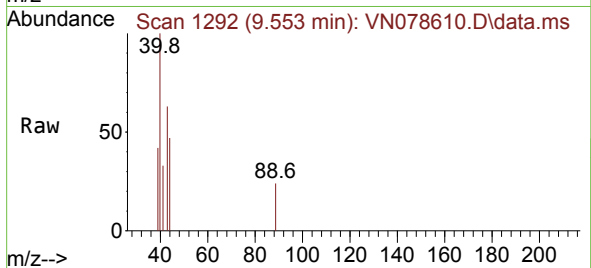
Acq: 21 Jul 2023 13:47

Instrument :

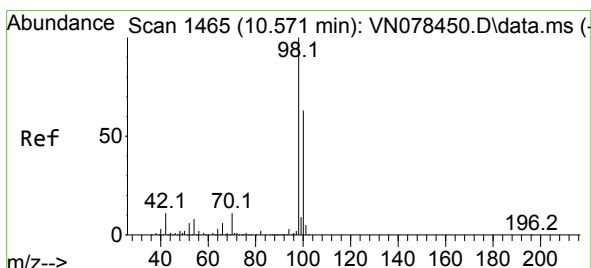
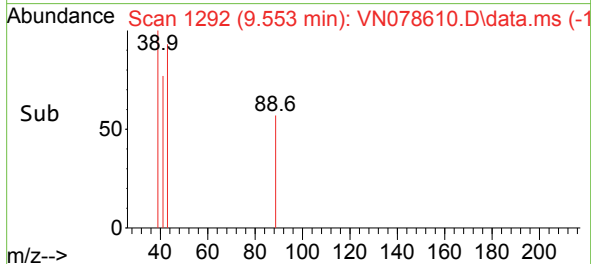
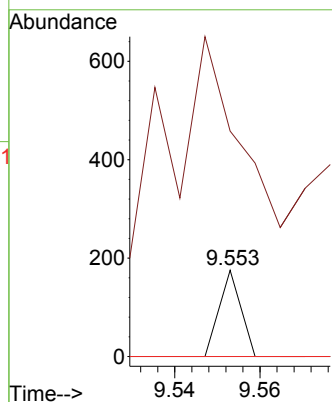
MSVOA_N

ClientSampleId :

EB-01-072023



Tgt Ion:	88	Resp:	62
Ion	Ratio	Lower	Upper
88	100		
43	2661.3	17.0	25.6#
58	0.0	47.0	70.4#



#50

Toluene-d8

Concen: 46.735 ug/l

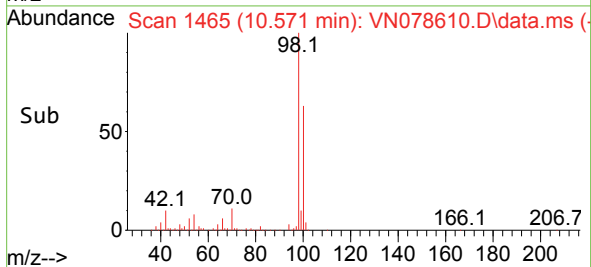
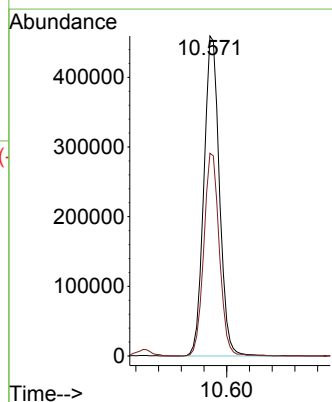
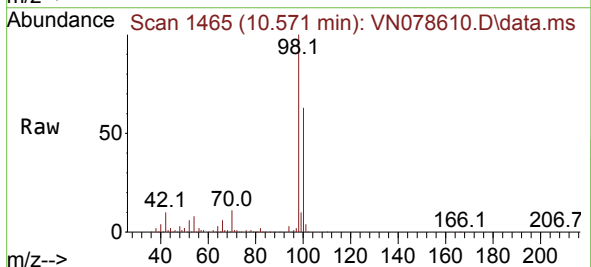
RT: 10.571 min Scan# 1465

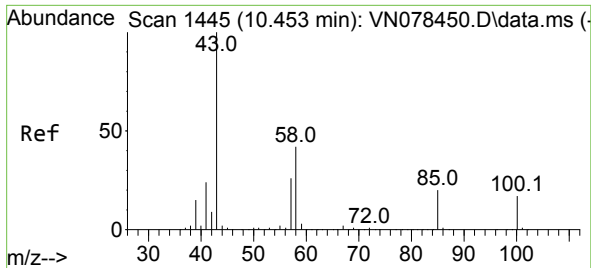
Delta R.T. -0.000 min

Lab File: VN078610.D

Acq: 21 Jul 2023 13:47

Tgt Ion:	98	Resp:	870519
Ion	Ratio	Lower	Upper
98	100		
100	63.2	52.0	78.0

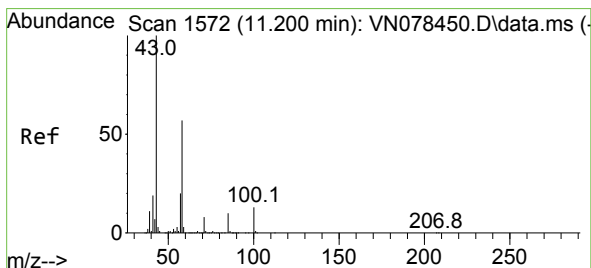
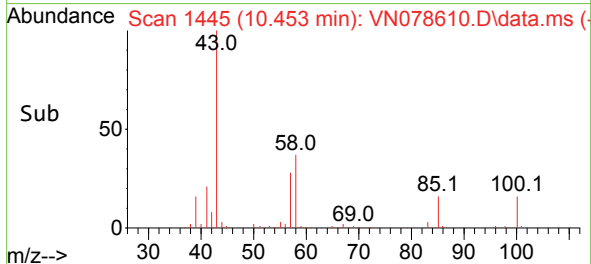
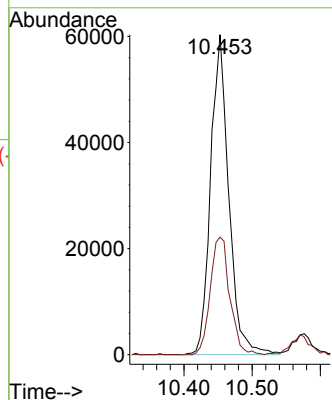
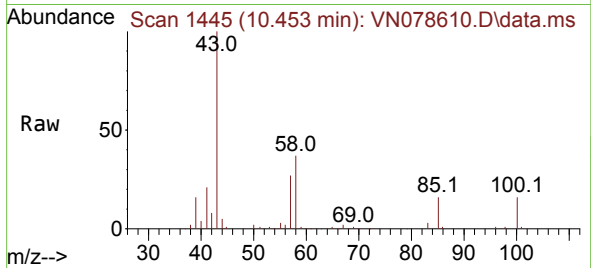




#51
4-Methyl-2-Pentanone
Concen: 19.253 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078610.D
Acq: 21 Jul 2023 13:47

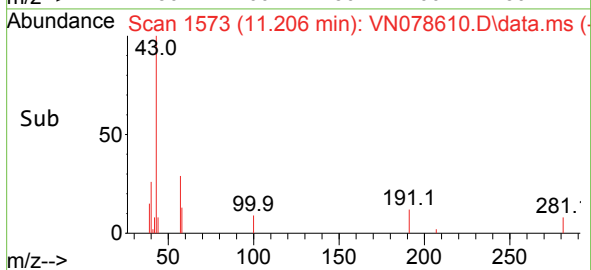
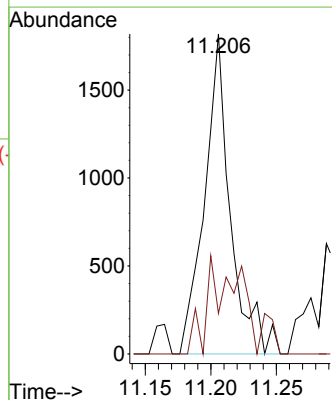
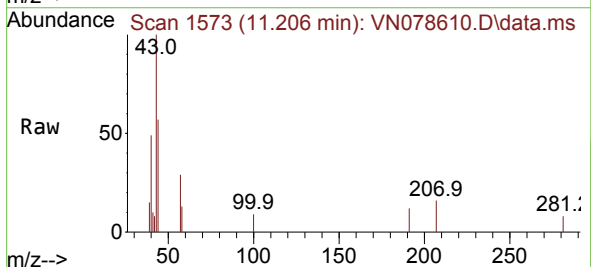
Instrument :
MSVOA_N
ClientSampleId :
EB-01-072023

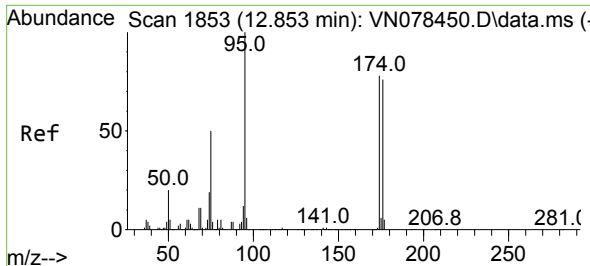
Tgt Ion: 43 Resp: 111899
Ion Ratio Lower Upper
43 100
58 39.4 36.6 54.8



#59
2-Hexanone
Concen: 0.605 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN078610.D
Acq: 21 Jul 2023 13:47

Tgt Ion: 43 Resp: 2499
Ion Ratio Lower Upper
43 100
58 36.9 31.7 95.1

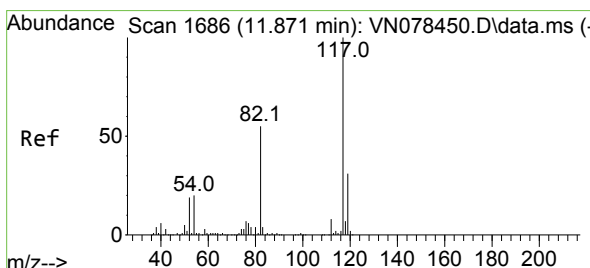
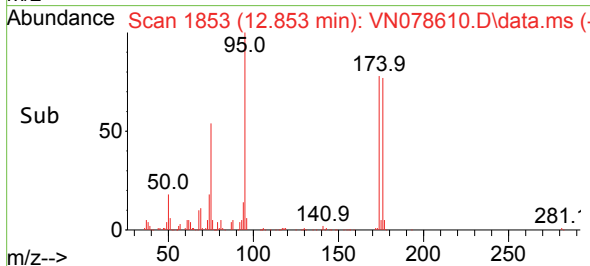
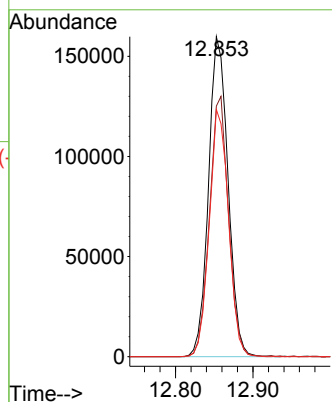
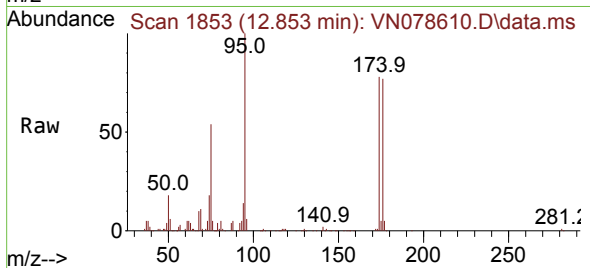




#62
4-Bromofluorobenzene
Concen: 48.704 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078610.D
Acq: 21 Jul 2023 13:47

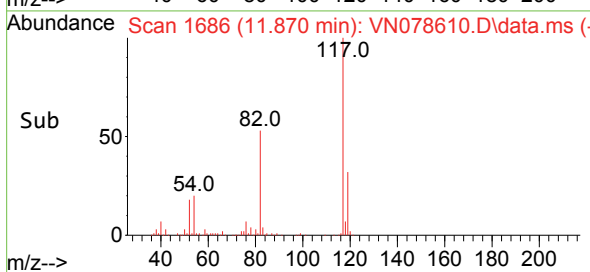
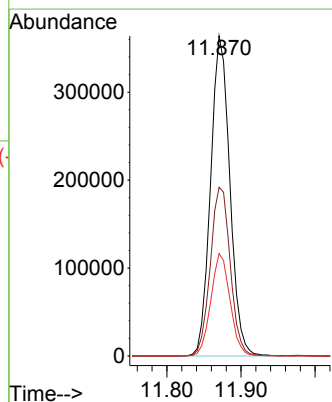
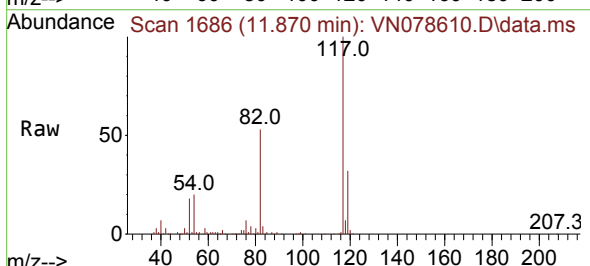
Instrument :
MSVOA_N
ClientSampleId :
EB-01-072023

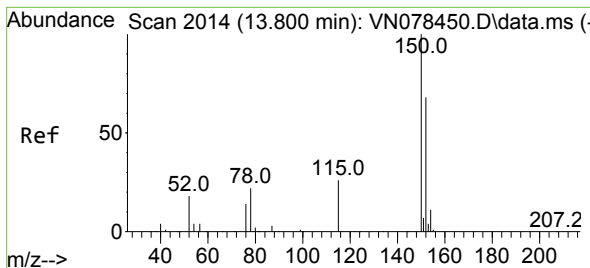
Tgt Ion: 95 Resp: 279430
Ion Ratio Lower Upper
95 100
174 79.7 0.0 143.8
176 76.1 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.001 min
Lab File: VN078610.D
Acq: 21 Jul 2023 13:47

Tgt Ion: 117 Resp: 656782
Ion Ratio Lower Upper
117 100
82 52.7 44.0 66.0
119 32.0 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: VN078610.D

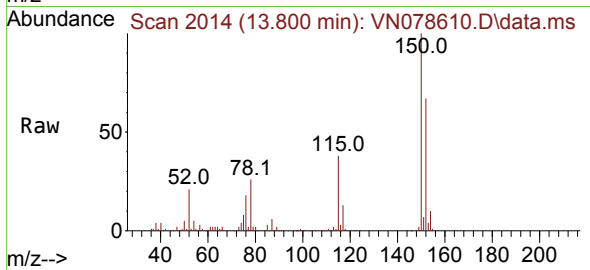
Acq: 21 Jul 2023 13:47

Instrument :

MSVOA_N

ClientSampleId :

EB-01-072023



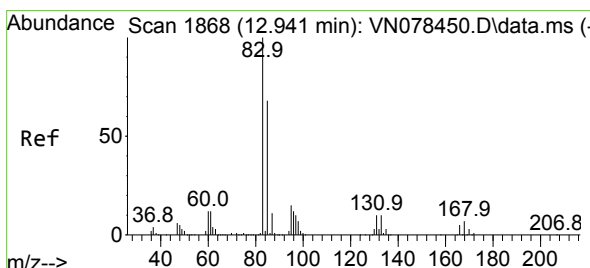
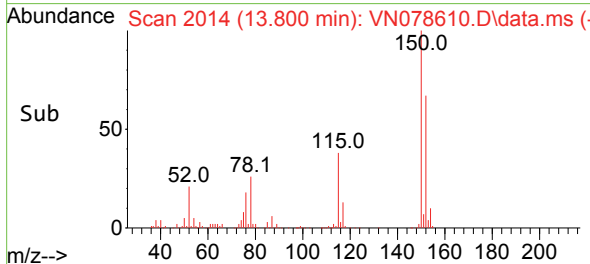
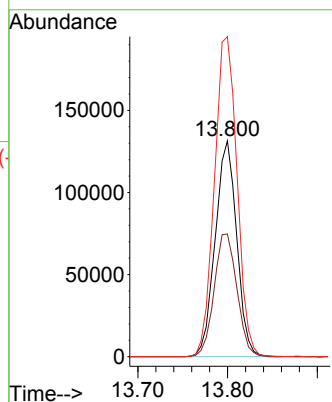
Tgt Ion:152 Resp: 218598

Ion Ratio Lower Upper

152 100

115 60.2 32.3 96.8

150 156.0 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.953 min Scan# 1870

Delta R.T. 0.012 min

Lab File: VN078610.D

Acq: 21 Jul 2023 13:47

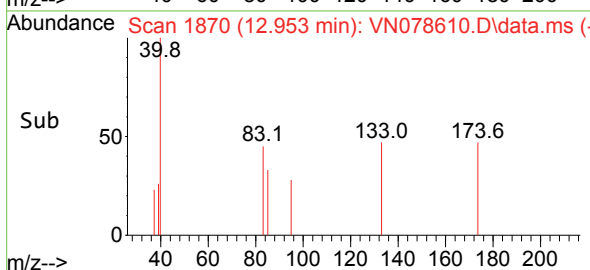
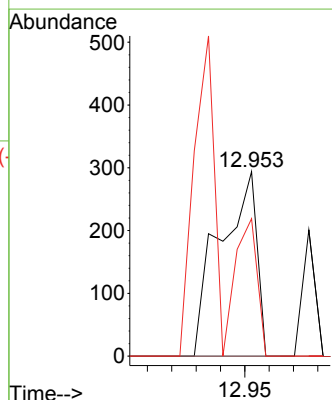
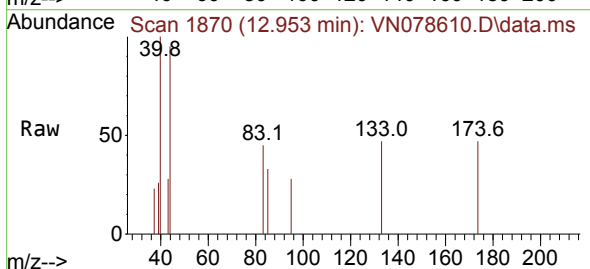
Tgt Ion: 83 Resp: 310

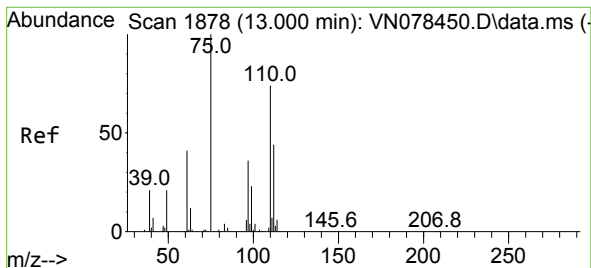
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 139.7 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 27.617 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078610.D

Acq: 21 Jul 2023 13:47

Instrument :

MSVOA_N

ClientSampleId :

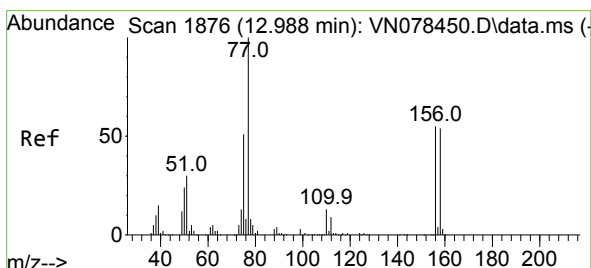
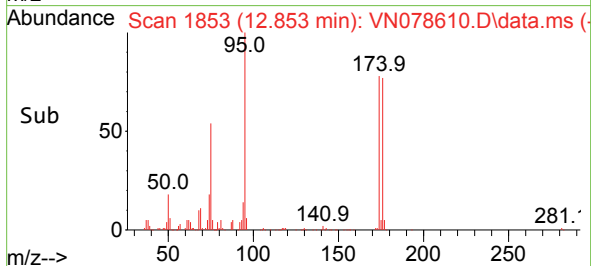
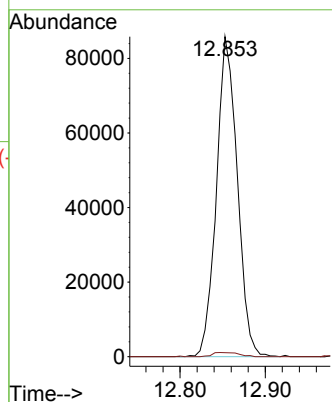
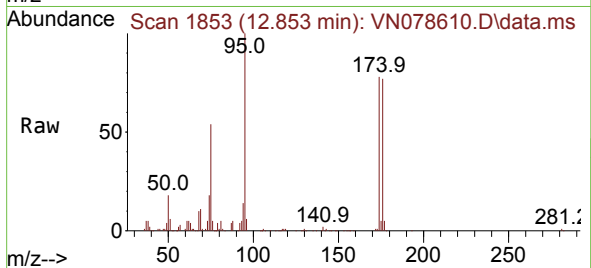
EB-01-072023

Tgt Ion: 75 Resp: 145922

Ion Ratio Lower Upper

75 100

77 1.7 84.5 253.5#



#77

Bromobenzene

Concen: Below Cal

RT: 12.988 min Scan# 1876

Delta R.T. 0.000 min

Lab File: VN078610.D

Acq: 21 Jul 2023 13:47

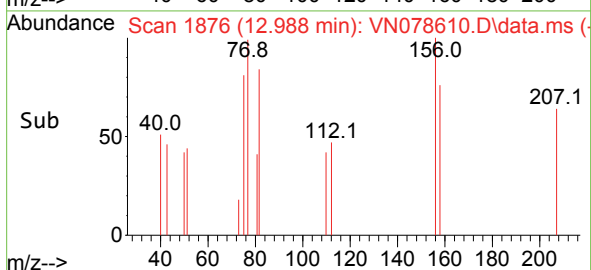
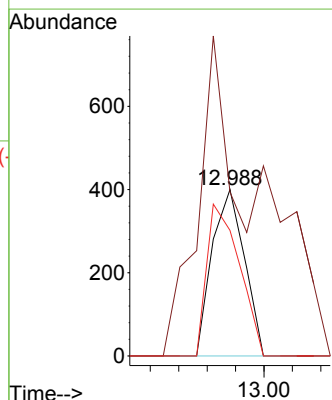
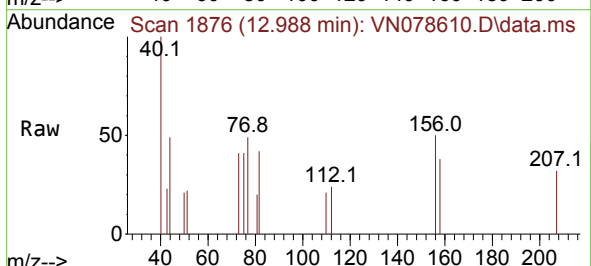
Tgt Ion:156 Resp: 315

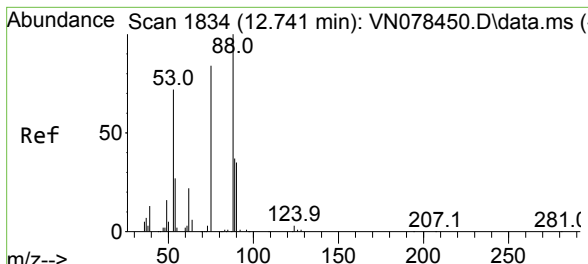
Ion Ratio Lower Upper

156 100

77 215.9 107.7 323.3

158 92.4 48.4 145.3

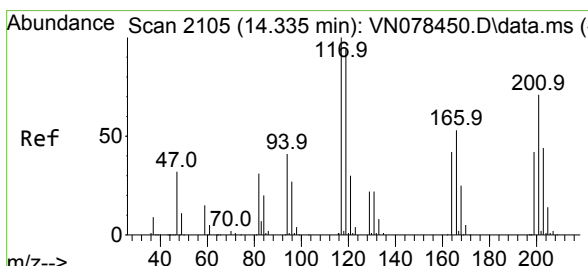
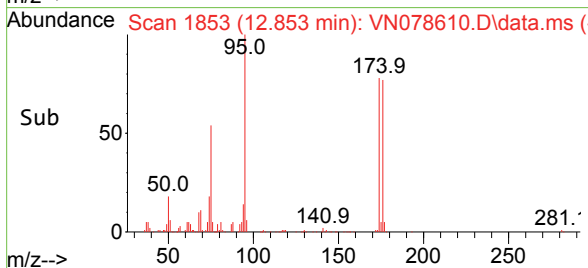
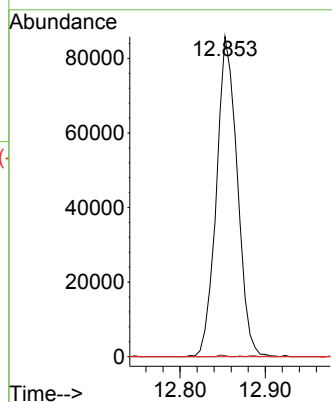
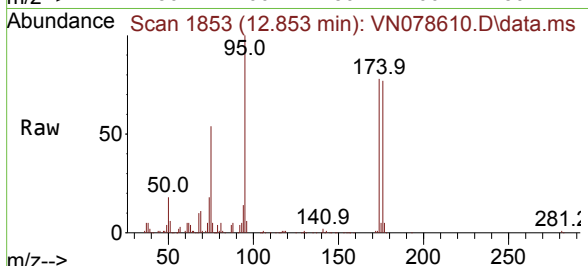




#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.572 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078610.D
 Acq: 21 Jul 2023 13:47

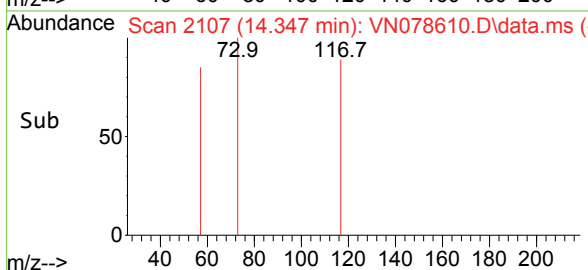
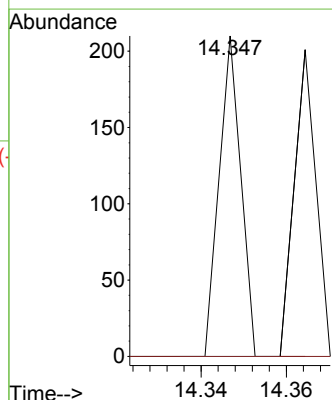
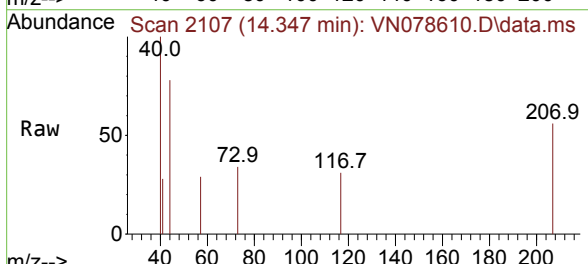
Instrument :
 MSVOA_N
 ClientSampleId :
 EB-01-072023

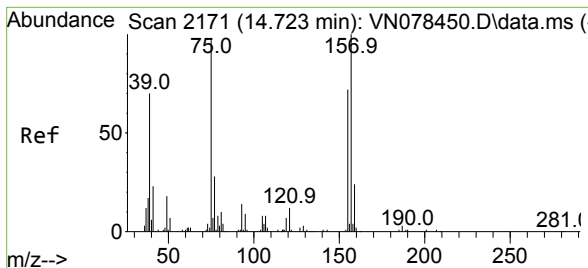
Tgt Ion: 75 Resp: 145922
 Ion Ratio Lower Upper
 75 100
 53 0.2 67.4 101.2#
 89 0.0 38.8 58.2#



#90
 Hexachloroethane
 Concen: Below Cal
 RT: 14.347 min Scan# 2107
 Delta R.T. 0.012 min
 Lab File: VN078610.D
 Acq: 21 Jul 2023 13:47

Tgt Ion: 117 Resp: 74
 Ion Ratio Lower Upper
 117 100
 201 0.0 29.3 88.0#

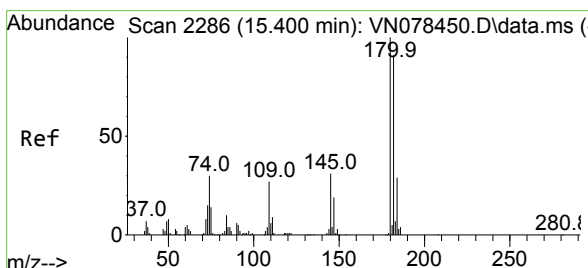
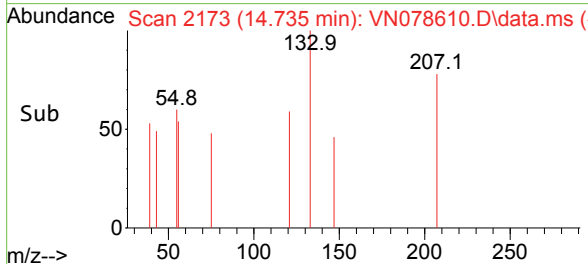
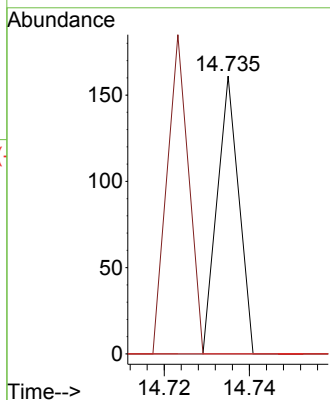
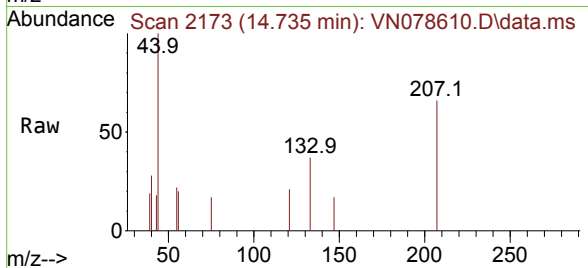




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.735 min Scan# 2171
 Delta R.T. 0.012 min
 Lab File: VN078610.D
 Acq: 21 Jul 2023 13:47

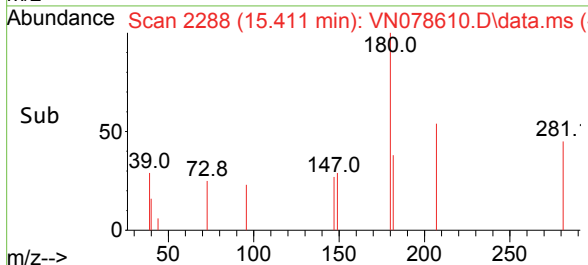
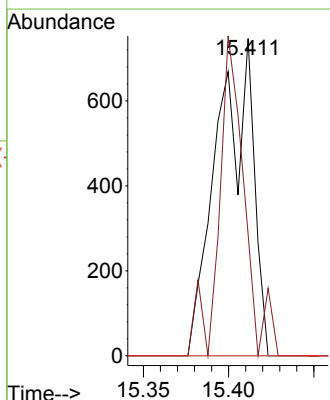
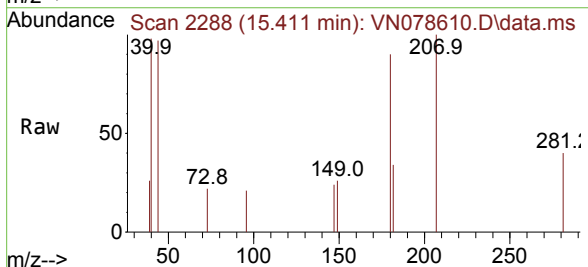
Instrument :
 MSVOA_N
 ClientSampleId :
 EB-01-072023

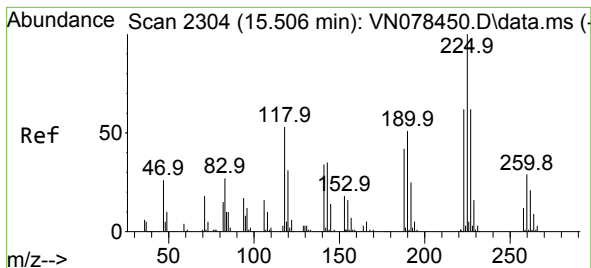
Tgt Ion: 75 Resp: 57
 Ion Ratio Lower Upper
 75 100
 155 114.0 39.1 117.2
 157 0.0 50.3 150.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.436 ug/l
 RT: 15.411 min Scan# 2288
 Delta R.T. 0.011 min
 Lab File: VN078610.D
 Acq: 21 Jul 2023 13:47

Tgt Ion: 180 Resp: 1092
 Ion Ratio Lower Upper
 180 100
 182 71.9 46.1 138.2
 145 0.0 16.6 49.8#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.500 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN078610.D

Acq: 21 Jul 2023 13:47

Instrument :

MSVOA_N

ClientSampleId :

EB-01-072023

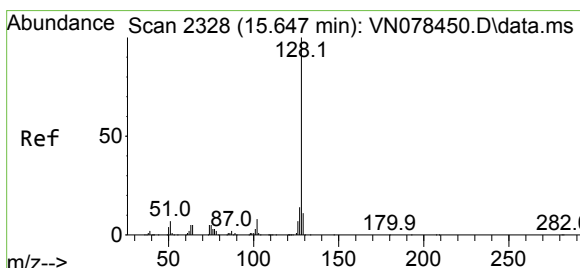
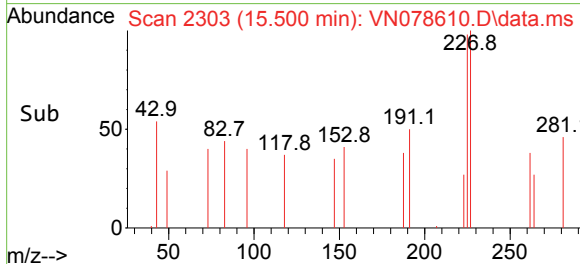
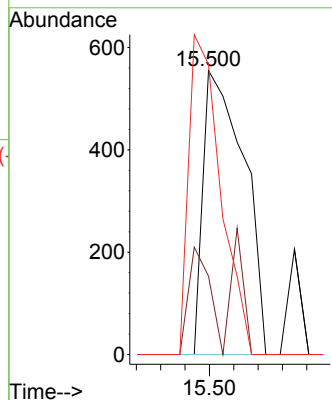
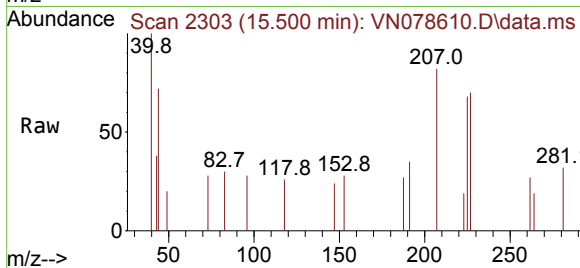
Tgt Ion:225 Resp: 645

Ion Ratio Lower Upper

225 100

223 19.8 31.3 93.8#

227 88.1 31.9 95.9



#95

Naphthalene

Concen: 0.369 ug/l

RT: 15.653 min Scan# 2329

Delta R.T. 0.006 min

Lab File: VN078610.D

Acq: 21 Jul 2023 13:47

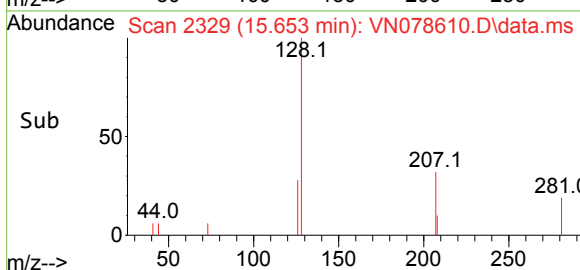
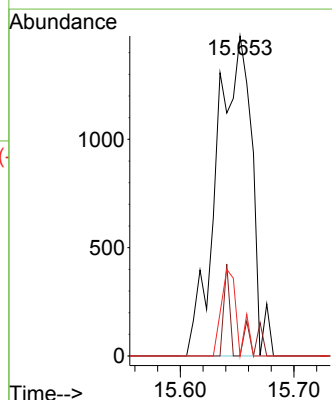
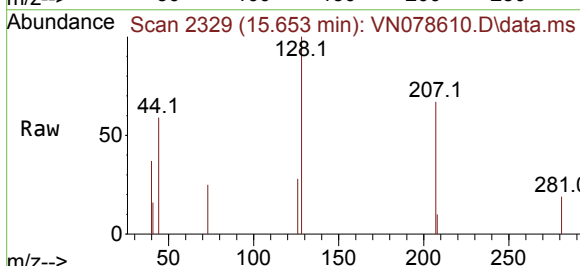
Tgt Ion:128 Resp: 3156

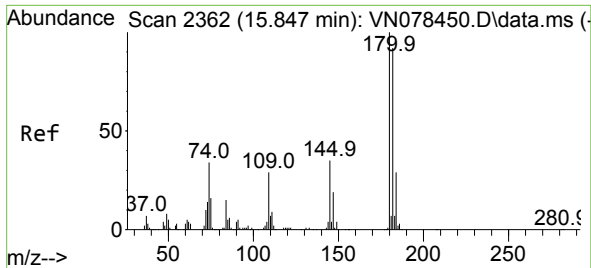
Ion Ratio Lower Upper

128 100

127 3.5 10.0 15.0#

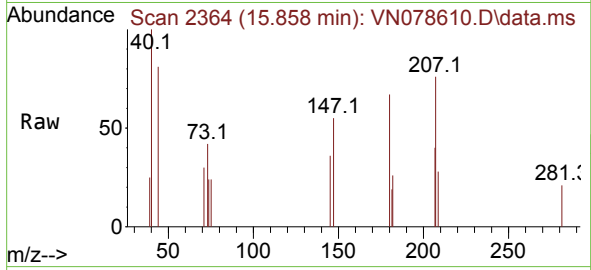
129 0.0 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.220 ug/l
 RT: 15.858 min Scan# 21
 Delta R.T. 0.011 min
 Lab File: VN078610.D
 Acq: 21 Jul 2023 13:47

Instrument :
 MSVOA_N
 ClientSampleId :
 EB-01-072023



Tgt Ion:	180	Resp:	633
Ion Ratio	Lower	Upper	
180	100		
182	199.5	46.2	138.6#
145	25.6	17.5	52.6

