

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082123\
 Data File : VN078973.D
 Acq On : 21 Aug 2023 14:32
 Operator : JC\MD
 Sample : 04082-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 22 00:57:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

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

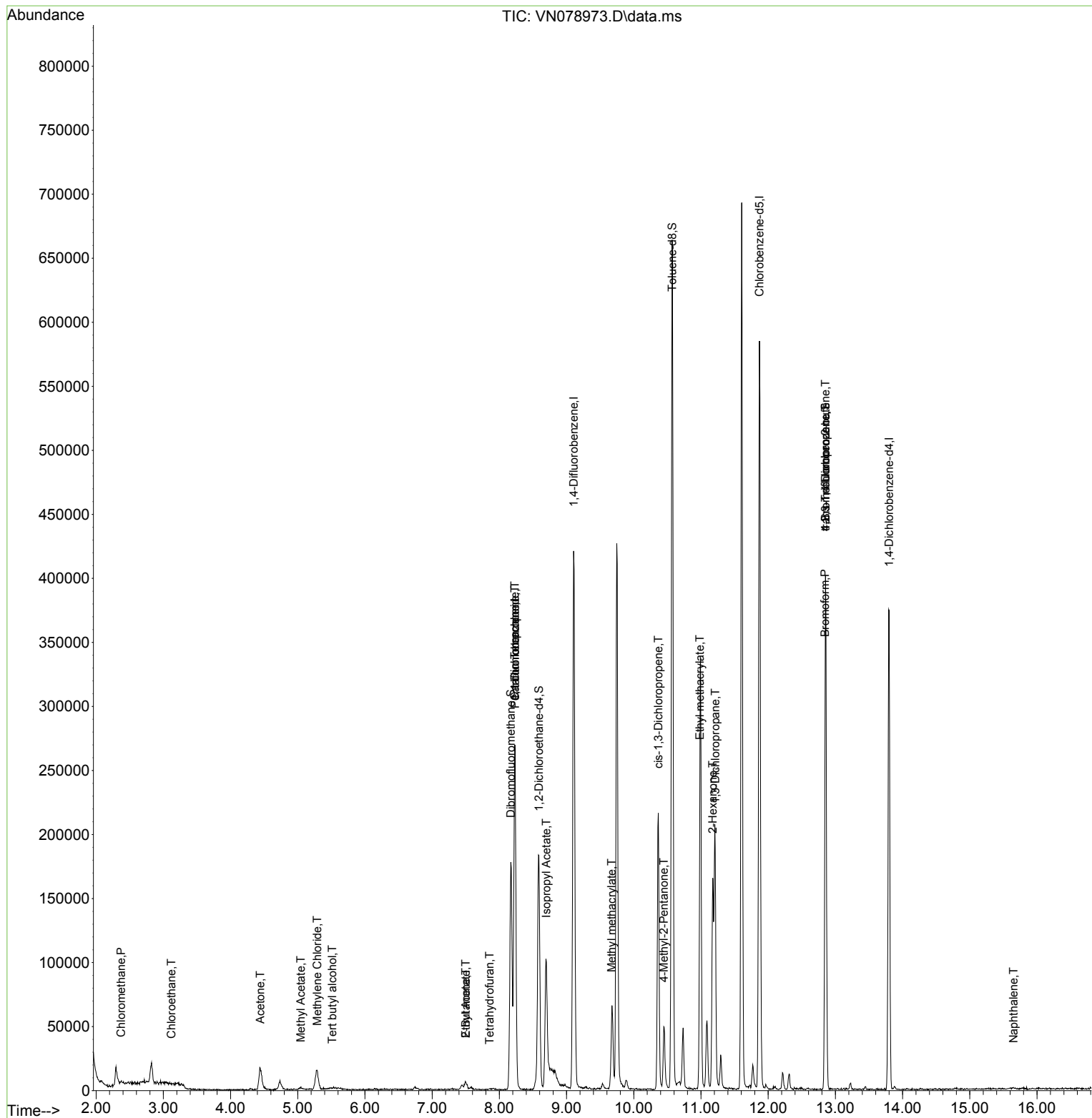
Internal Standards						
1) Pentafluorobenzene	8.235	168	190398	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	354995	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	331770	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	98856	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	149536	50.472	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 100.940%		
35) Dibromofluoromethane	8.171	113	125912	52.691	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 105.380%		
50) Toluene-d8	10.571	98	440314	49.624	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 99.240%		
62) 4-Bromofluorobenzene	12.853	95	126730	43.697	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 87.400%		
Target Compounds						Qvalue
3) Chloromethane	2.371	50	1344	0.364	ug/l #	74
6) Chloroethane	3.118	64	555	0.245	ug/l #	43
11) Tert butyl alcohol	5.512	59	112	0.225	ug/l #	72
16) Acetone	4.442	43	33672	27.544	ug/l #	86
18) Methyl Acetate	5.047	43	2497	0.484	ug/l #	55
20) Methylene Chloride	5.289	84	10744	4.124	ug/l	88
25) 2-Butanone	7.500	43	10526	5.371	ug/l #	62
29) Tetrahydrofuran	7.853	42	657	0.506	ug/l #	20
31) Cyclohexane	8.224	56	5404	Below Cal	#	56
36) 1,1-Dichloropropene	8.230	75	17575	4.889	ug/l #	47
37) Ethyl Acetate	7.500	43	10526	2.617	ug/l #	63
38) Carbon Tetrachloride	8.230	117	20552	5.706	ug/l #	17
43) Isopropyl Acetate	8.700	43	131277	18.467	ug/l #	73
48) Methyl methacrylate	9.671	41	3446	1.070	ug/l #	3
51) 4-Methyl-2-Pentanone	10.447	43	37040	8.785	ug/l #	83
54) cis-1,3-Dichloropropene	10.365	75	35819	8.004	ug/l #	72
56) Ethyl methacrylate	10.982	69	2079	0.513	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	1868	0.399	ug/l #	42
59) 2-Hexanone	11.176	43	164201	53.770	ug/l #	19
71) Bromoform	12.847	173	926	0.477	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	72121	30.278	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	72121	77.348	ug/l #	15
95) Naphthalene	15.653	128	1430	2.872	ug/l #	77

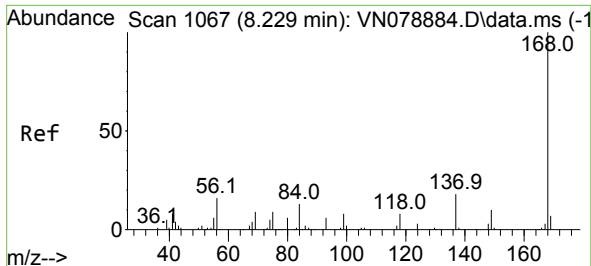
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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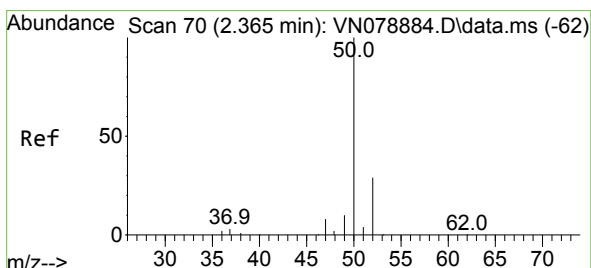
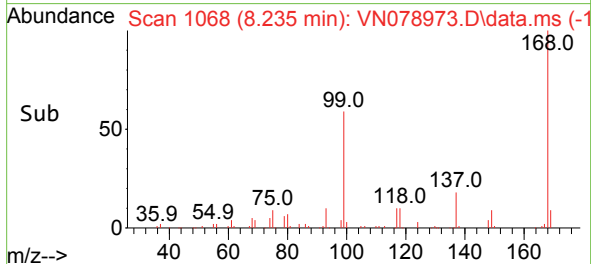
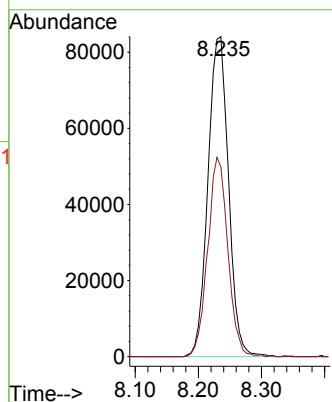
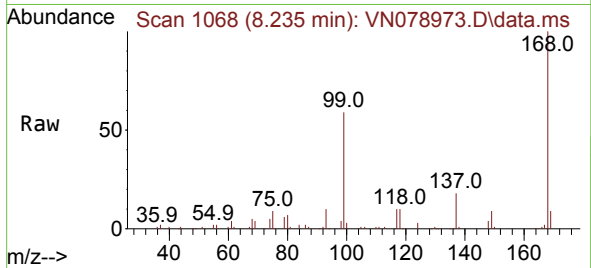




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN078973.D
Acq: 21 Aug 2023 14:32

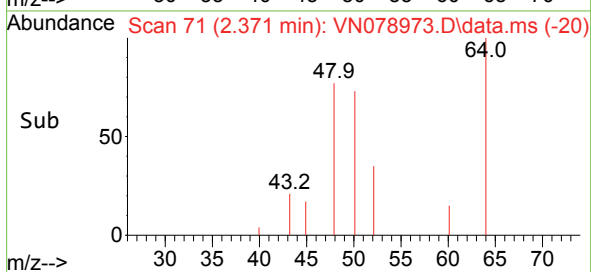
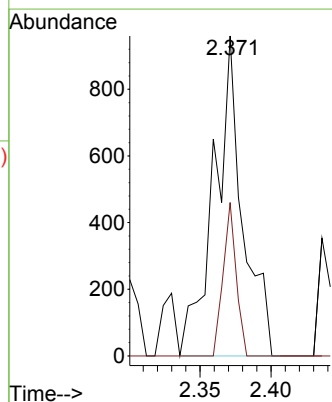
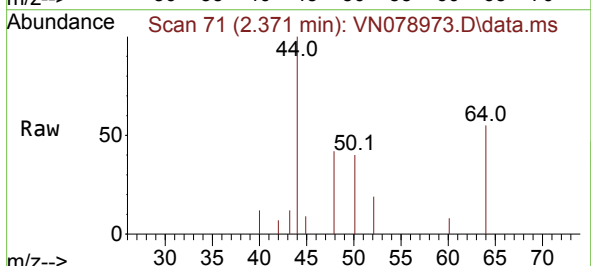
Instrument :
MSVOA_N
ClientSampleId :

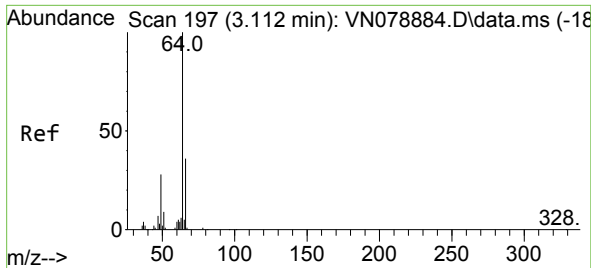
Tgt Ion:168 Resp: 190398
Ion Ratio Lower Upper
168 100
99 59.4 53.0 79.6



#3
Chloromethane
Concen: 0.364 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078973.D
Acq: 21 Aug 2023 14:32

Tgt Ion: 50 Resp: 1344
Ion Ratio Lower Upper
50 100
52 47.9 26.5 39.7#

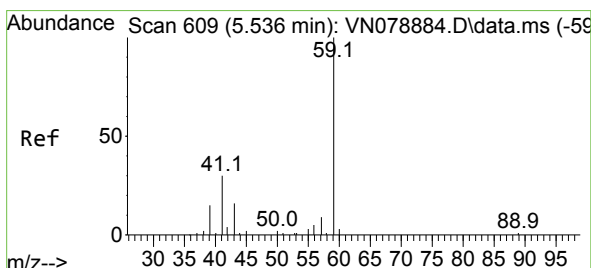
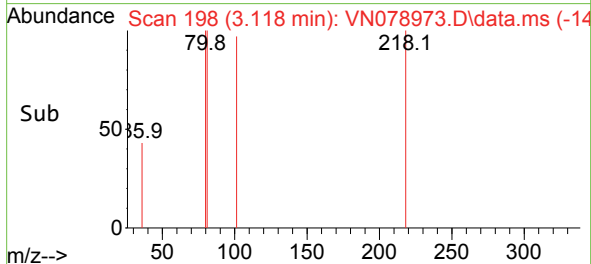
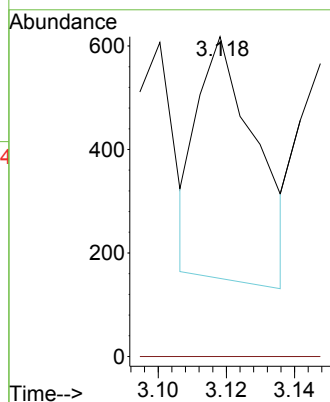
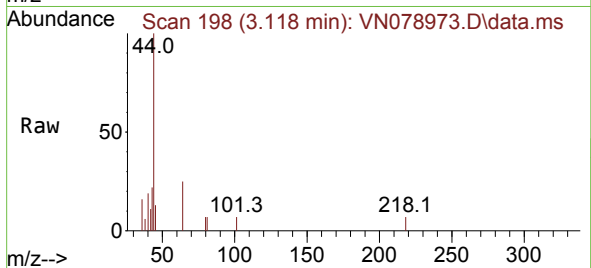




#6
Chloroethane
Concen: 0.245 ug/l
RT: 3.118 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN078973.D
Acq: 21 Aug 2023 14:32

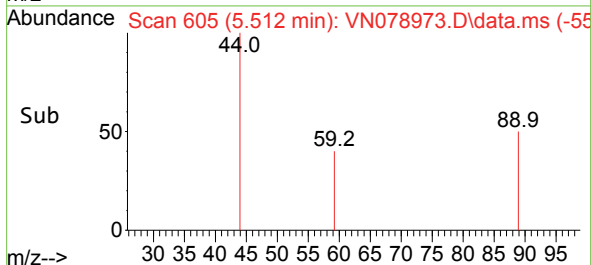
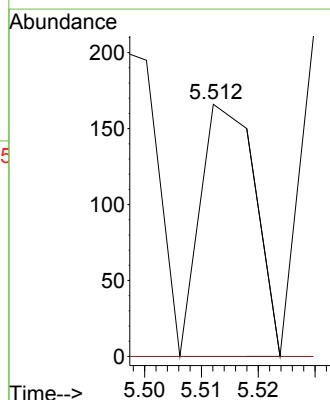
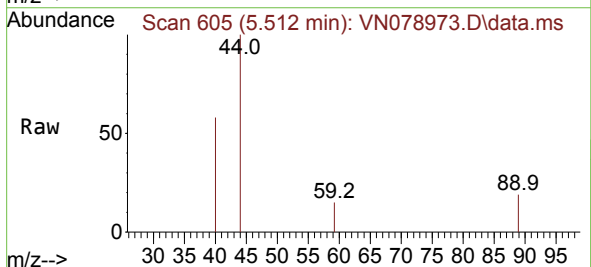
Instrument :
MSVOA_N
ClientSampleId :

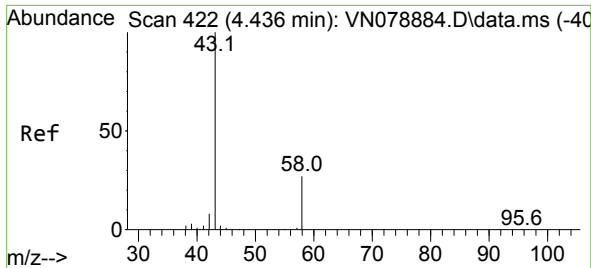
Tgt Ion: 64 Resp: 555
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.225 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.030 min
Lab File: VN078973.D
Acq: 21 Aug 2023 14:32

Tgt Ion: 59 Resp: 112
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 27.544 ug/l

RT: 4.442 min Scan# 43

Delta R.T. -0.000 min

Lab File: VN078973.D

Acq: 21 Aug 2023 14:32

Instrument :

MSVOA_N

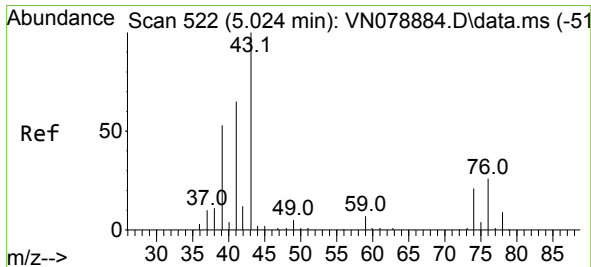
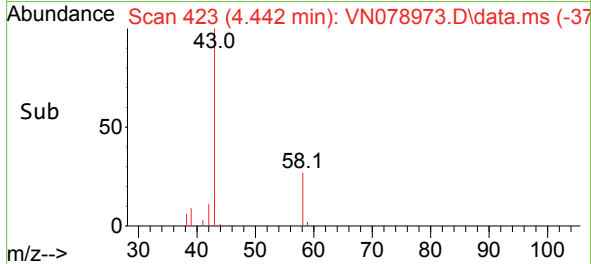
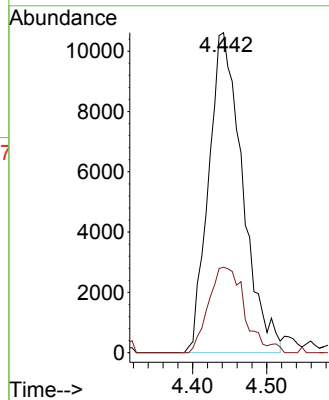
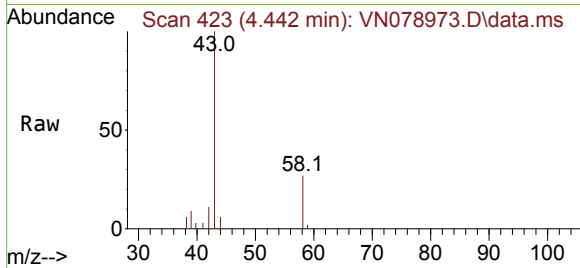
ClientSampleId :

Tgt Ion: 43 Resp: 33672

Ion Ratio Lower Upper

43 100

58 26.7 28.0 42.0#



#18

Methyl Acetate

Concen: 0.484 ug/l

RT: 5.047 min Scan# 526

Delta R.T. 0.005 min

Lab File: VN078973.D

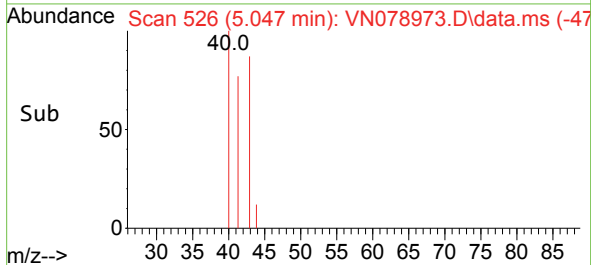
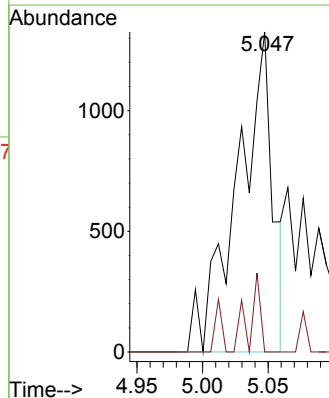
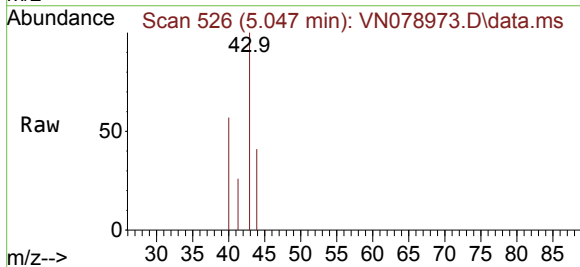
Acq: 21 Aug 2023 14:32

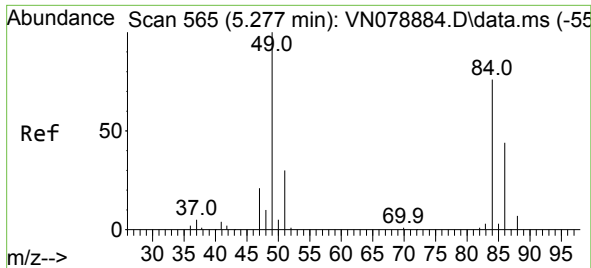
Tgt Ion: 43 Resp: 2497

Ion Ratio Lower Upper

43 100

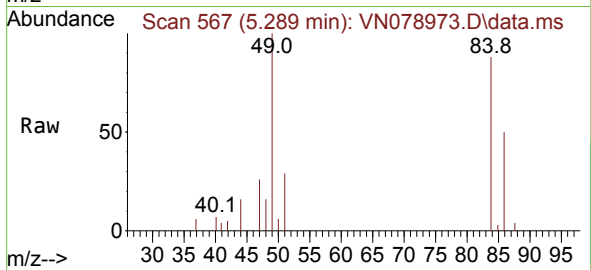
74 7.6 26.2 39.4#



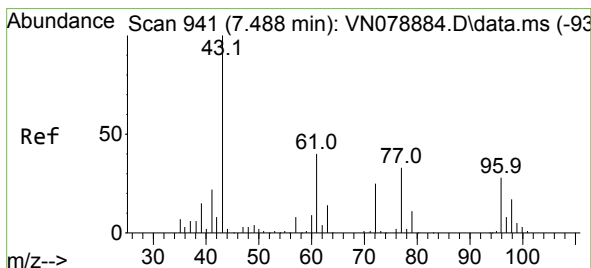
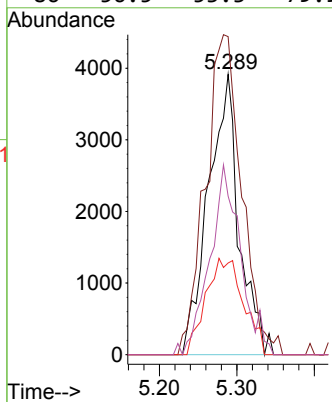
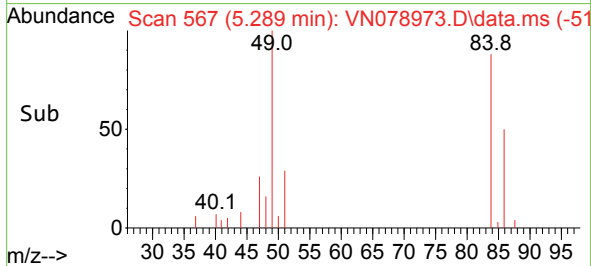


#20
Methylene Chloride
Concen: 4.124 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078973.D
Acq: 21 Aug 2023 14:32

Instrument :
MSVOA_N
ClientSampleId :

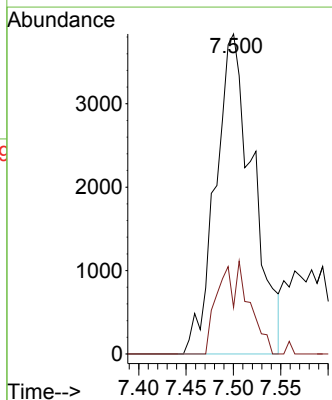
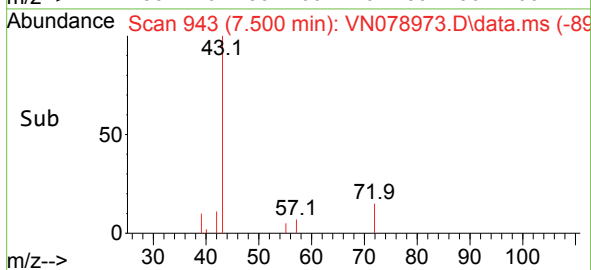
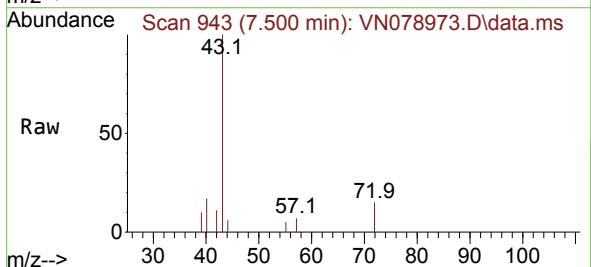


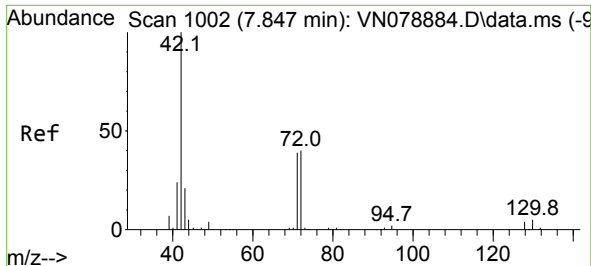
Tgt Ion:	84	Resp:	10744
Ion	Ratio	Lower	Upper
84	100		
49	113.5	79.7	119.5
51	32.7	25.2	37.8
86	56.5	53.3	79.9



#25
2-Butanone
Concen: 5.371 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078973.D
Acq: 21 Aug 2023 14:32

Tgt Ion:	43	Resp:	10526
Ion	Ratio	Lower	Upper
43	100		
72	14.6	30.2	45.2#





#29

Tetrahydrofuran

Concen: 0.506 ug/l

RT: 7.853 min Scan# 1

Delta R.T. 0.006 min

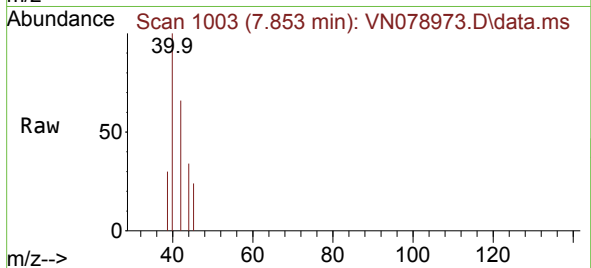
Lab File: VN078973.D

Acq: 21 Aug 2023 14:32

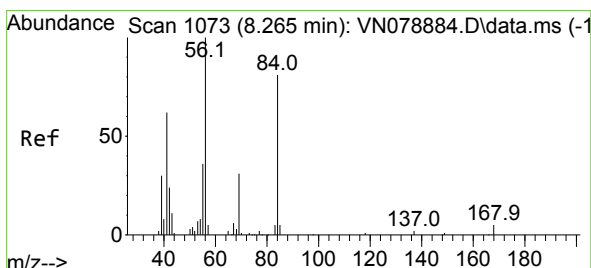
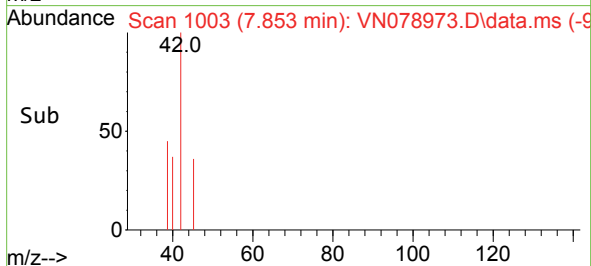
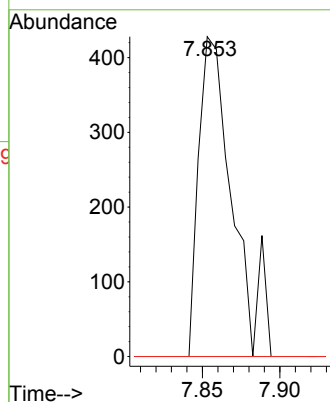
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	657
Ion Ratio	Lower	Upper	
42	100		
72	0.0	49.8	74.6#
71	0.0	47.4	71.2#



#31

Cyclohexane

Concen: Below Cal

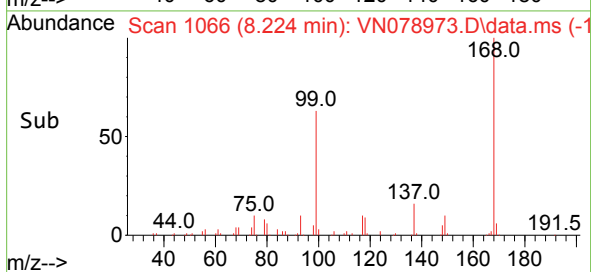
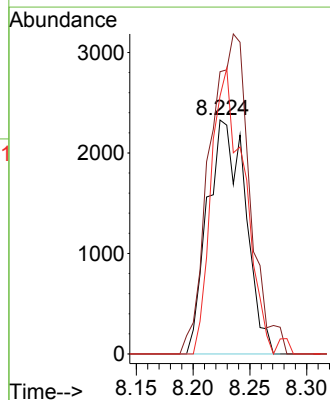
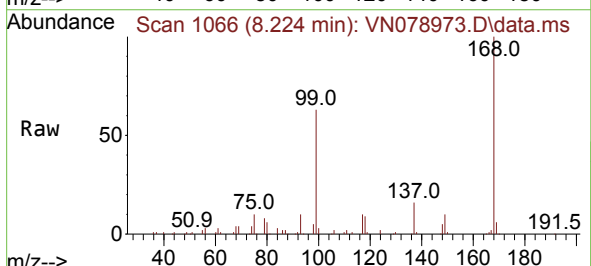
RT: 8.224 min Scan# 1066

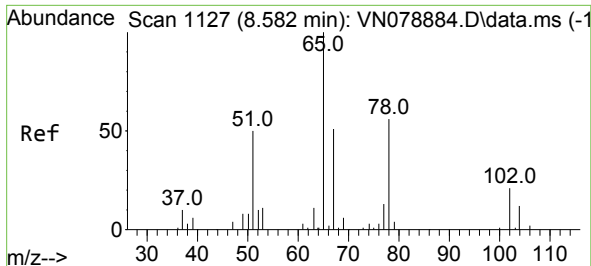
Delta R.T. -0.041 min

Lab File: VN078973.D

Acq: 21 Aug 2023 14:32

Tgt Ion:	56	Resp:	5404
Ion Ratio	Lower	Upper	
56	100		
69	120.7	26.8	40.2#
84	110.2	81.8	122.6





#33

1,2-Dichloroethane-d4

Concen: 50.472 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078973.D

Acq: 21 Aug 2023 14:32

Instrument :

MSVOA_N

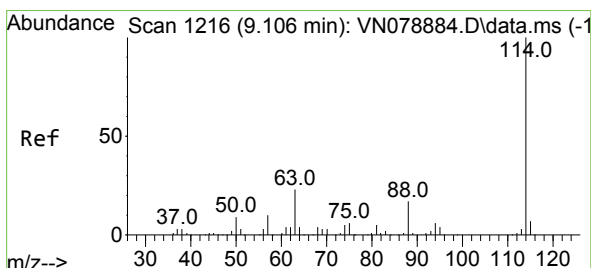
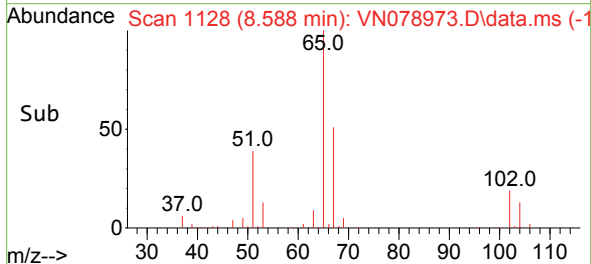
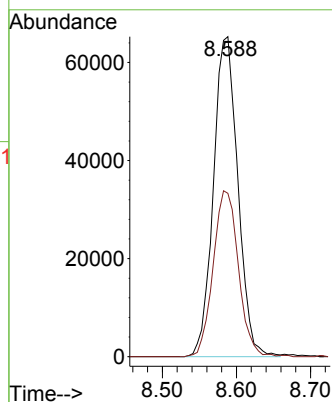
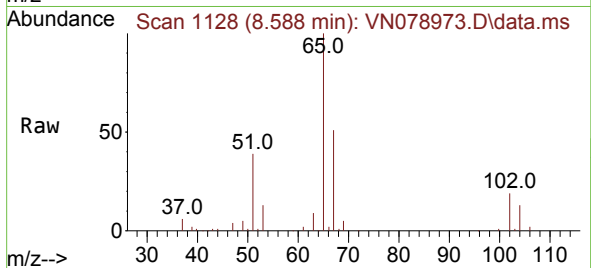
ClientSampleId :

Tgt Ion: 65 Resp: 149536

Ion Ratio Lower Upper

65 100

67 53.7 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.006 min

Lab File: VN078973.D

Acq: 21 Aug 2023 14:32

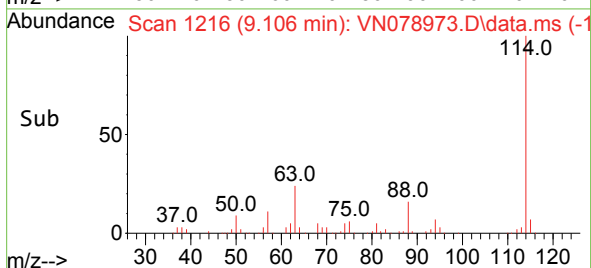
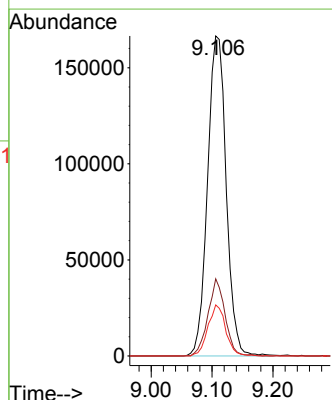
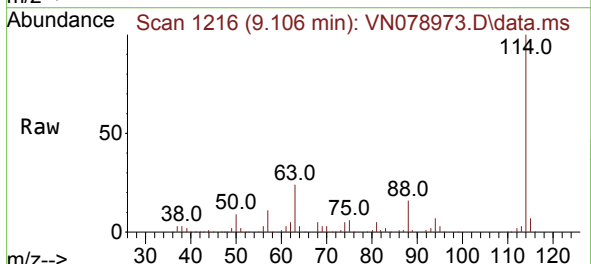
Tgt Ion: 114 Resp: 354995

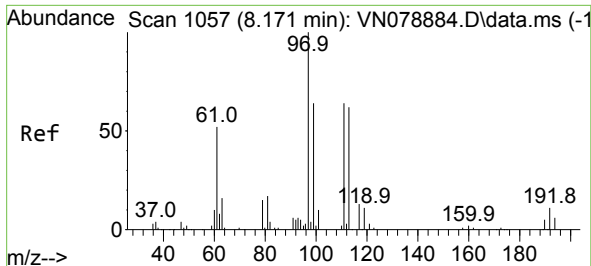
Ion Ratio Lower Upper

114 100

63 24.1 0.0 36.4

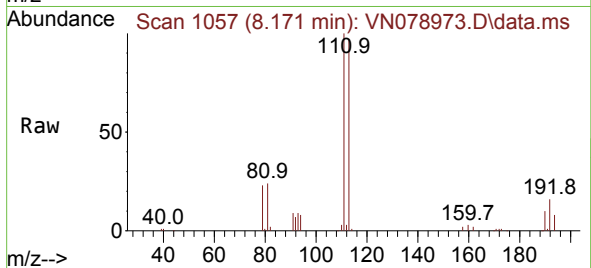
88 15.9 0.0 30.6



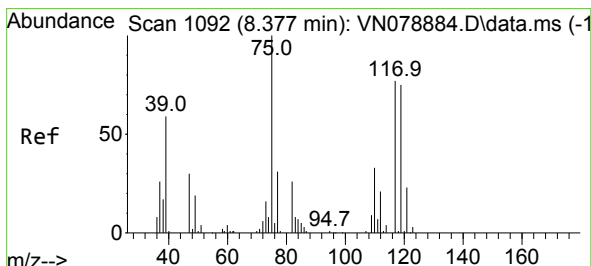
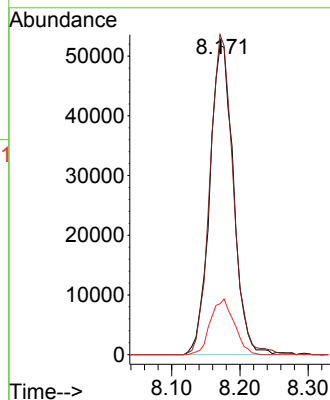
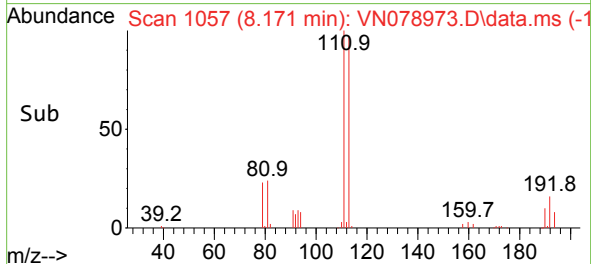


#35
Dibromofluoromethane
Concen: 52.691 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN078973.D
Acq: 21 Aug 2023 14:32

Instrument :
MSVOA_N
ClientSampleId :

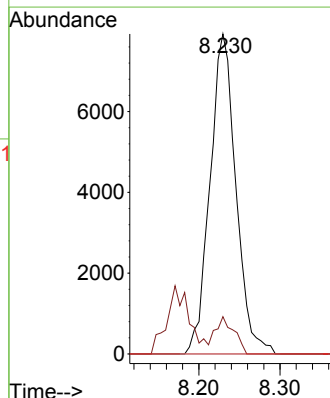
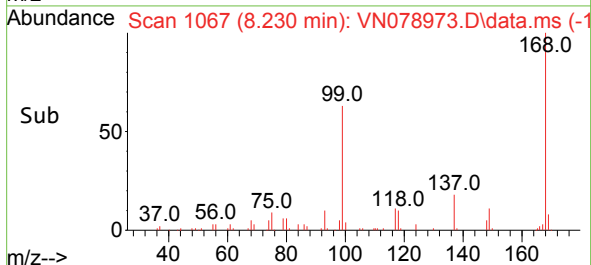
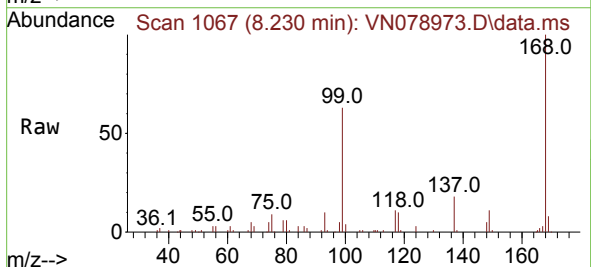


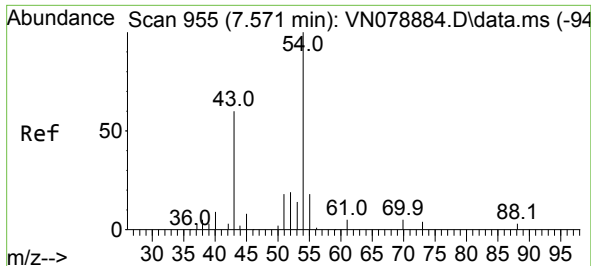
Tgt Ion:113 Resp: 125912
Ion Ratio Lower Upper
113 100
111 101.1 82.6 123.8
192 18.0 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.889 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078973.D
Acq: 21 Aug 2023 14:32

Tgt Ion: 75 Resp: 17575
Ion Ratio Lower Upper
75 100
110 8.4 19.1 57.3#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 2.617 ug/l

RT: 7.500 min Scan# 94

Delta R.T. -0.071 min

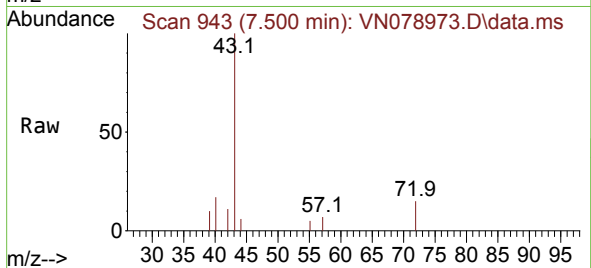
Lab File: VN078973.D

Acq: 21 Aug 2023 14:32

Instrument :

MSVOA_N

ClientSampleId :



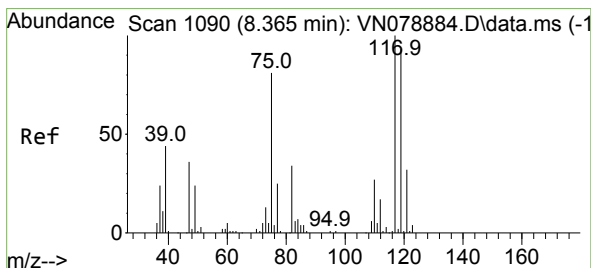
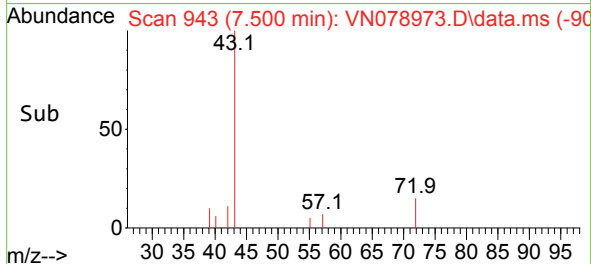
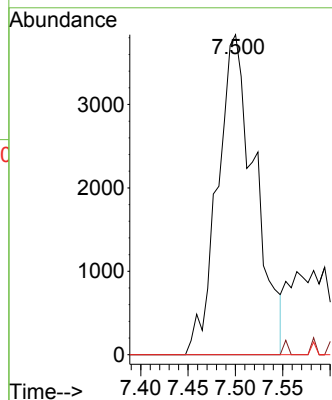
Tgt Ion: 43 Resp: 10526

Ion Ratio Lower Upper

43 100

61 0.0 13.2 19.8#

70 0.0 11.3 16.9#



#38

Carbon Tetrachloride

Concen: 5.706 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN078973.D

Acq: 21 Aug 2023 14:32

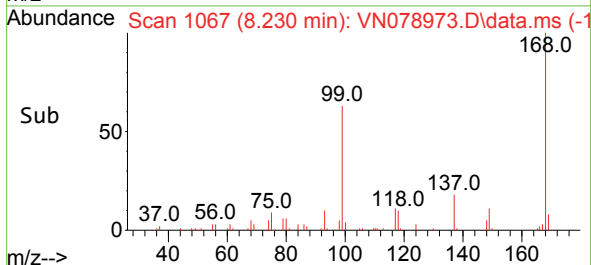
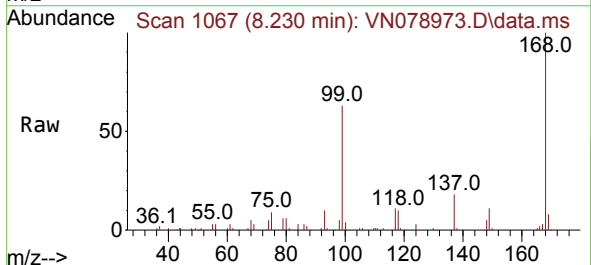
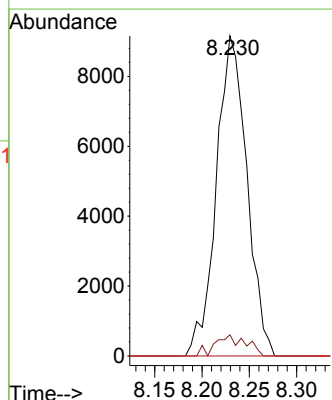
Tgt Ion: 117 Resp: 20552

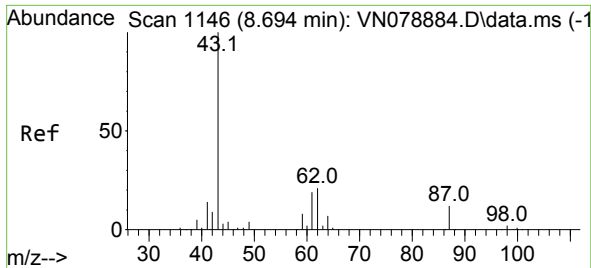
Ion Ratio Lower Upper

117 100

119 6.6 77.3 115.9#

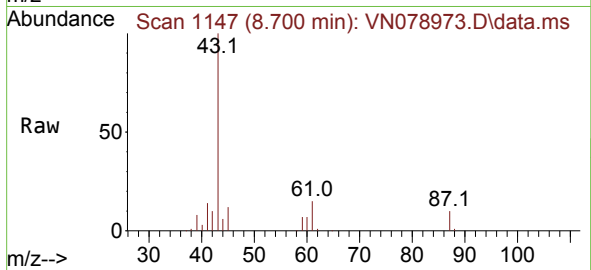
121 0.0 23.3 34.9#



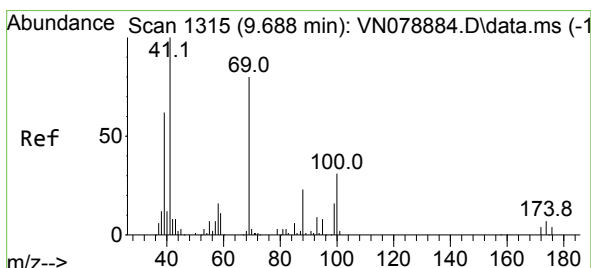
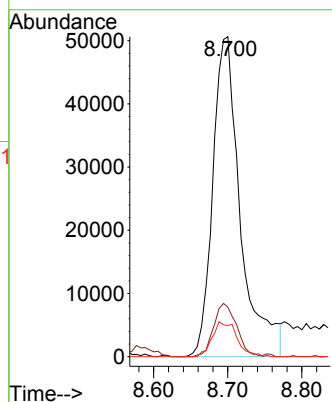
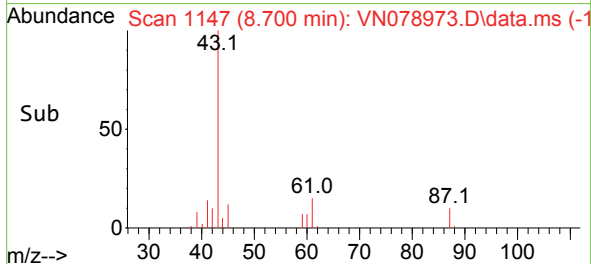


#43
Isopropyl Acetate
Concen: 18.467 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN078973.D
Acq: 21 Aug 2023 14:32

Instrument :
MSVOA_N
ClientSampleId :

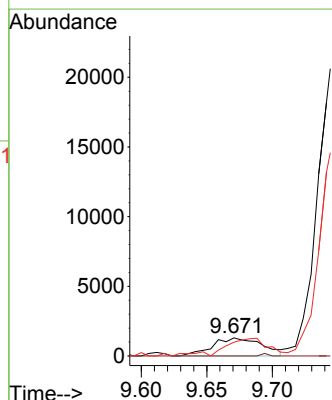
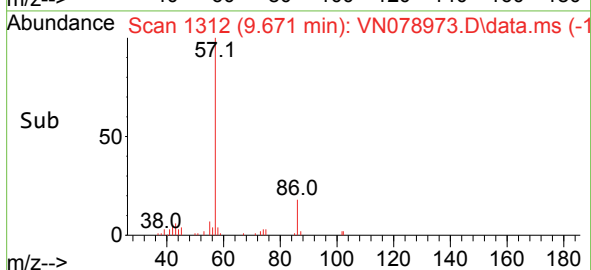
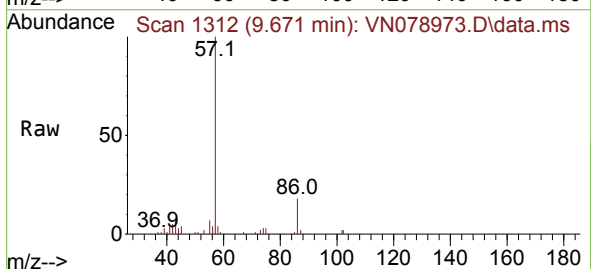


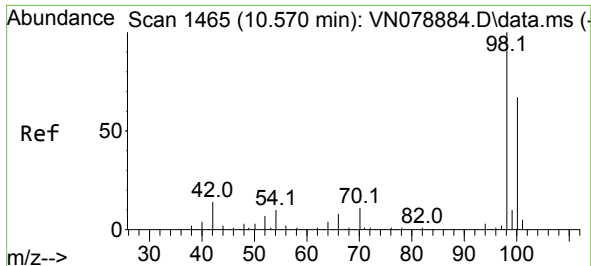
Tgt Ion: 43 Resp: 131277
Ion Ratio Lower Upper
43 100
61 13.8 24.7 37.1#
87 9.7 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.070 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.017 min
Lab File: VN078973.D
Acq: 21 Aug 2023 14:32

Tgt Ion: 41 Resp: 3446
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 0.0 54.6 81.8#

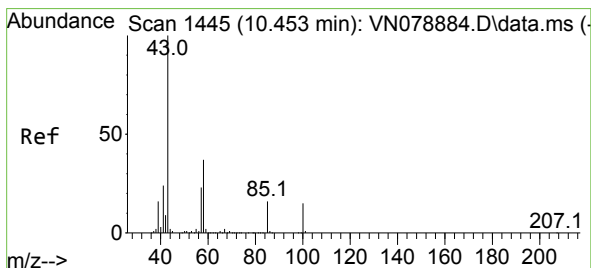
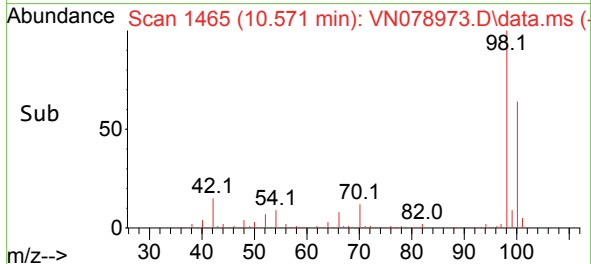
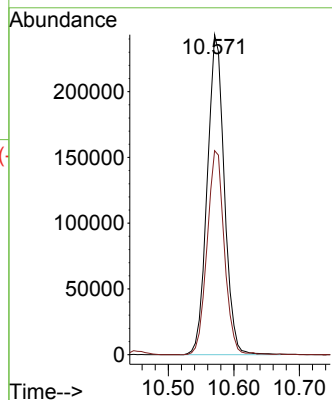
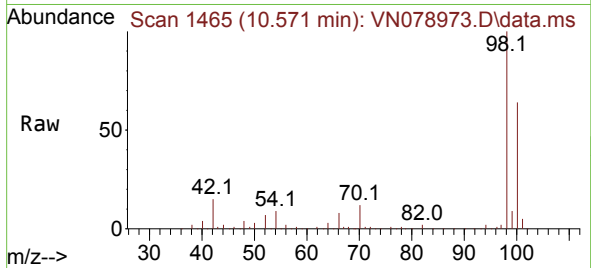




#50
Toluene-d8
Concen: 49.624 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078973.D
Acq: 21 Aug 2023 14:32

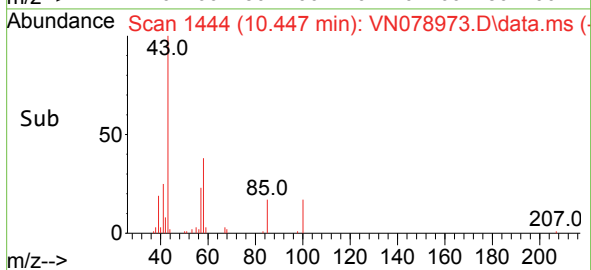
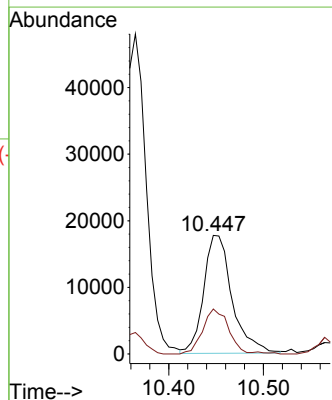
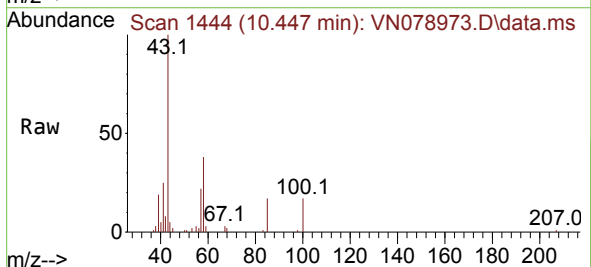
Instrument :
MSVOA_N
ClientSampleId :

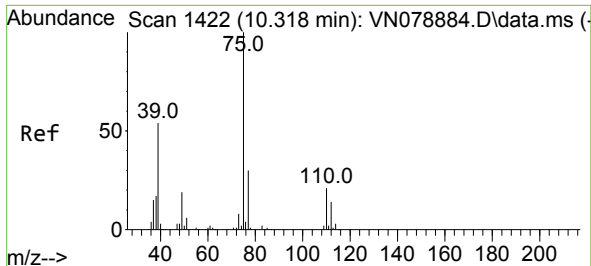
Tgt Ion: 98 Resp: 440314
Ion Ratio Lower Upper
98 100
100 64.4 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 8.785 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078973.D
Acq: 21 Aug 2023 14:32

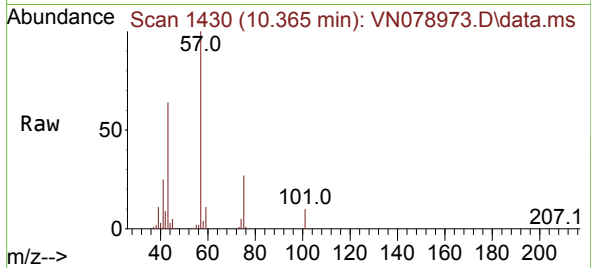
Tgt Ion: 43 Resp: 37040
Ion Ratio Lower Upper
43 100
58 34.4 36.6 54.8#



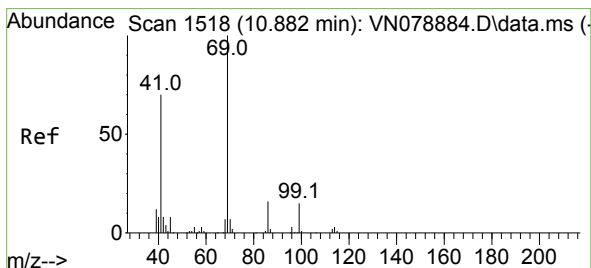
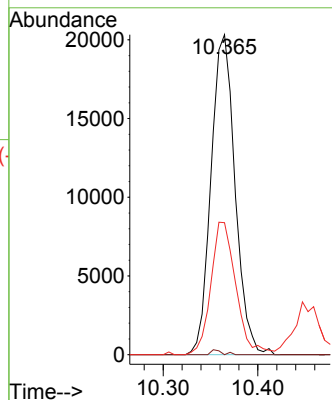
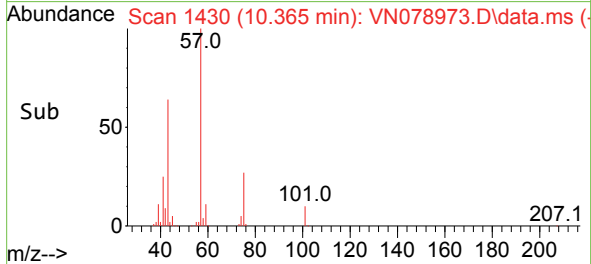


#54
 cis-1,3-Dichloropropene
 Concen: 8.004 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN078973.D
 Acq: 21 Aug 2023 14:32

Instrument :
 MSVOA_N
 ClientSampleId :

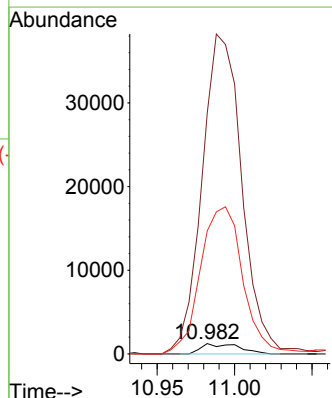
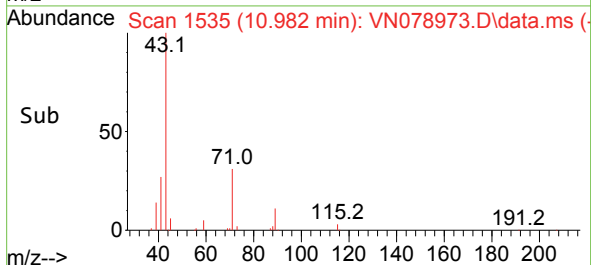
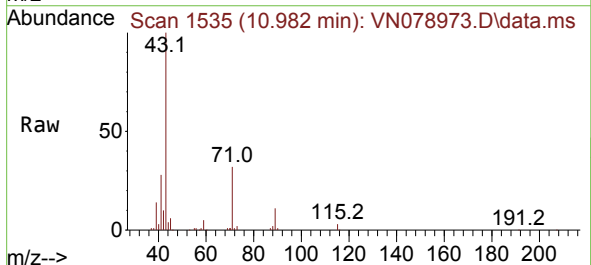


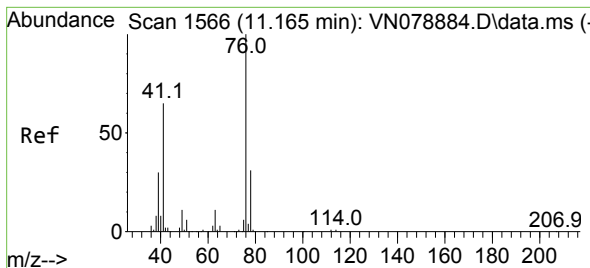
Tgt Ion: 75 Resp: 35819
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 41.2 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.513 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.105 min
 Lab File: VN078973.D
 Acq: 21 Aug 2023 14:32

Tgt Ion: 69 Resp: 2079
 Ion Ratio Lower Upper
 69 100
 41 3299.0 39.6 59.4#
 39 1610.2 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 0.399 ug/l

RT: 11.212 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN078973.D

Acq: 21 Aug 2023 14:32

Instrument :

MSVOA_N

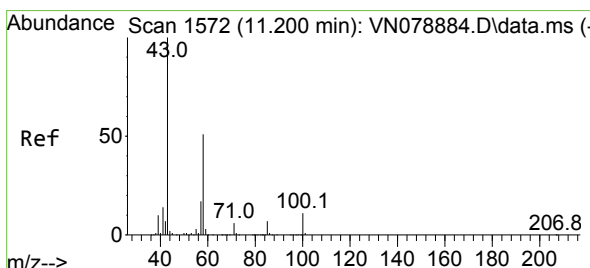
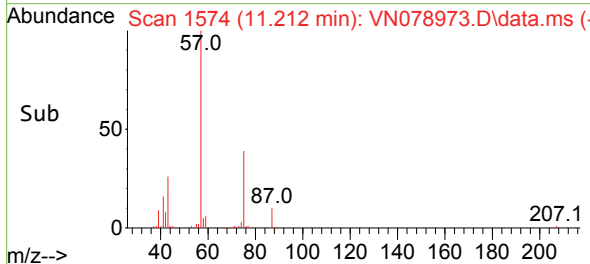
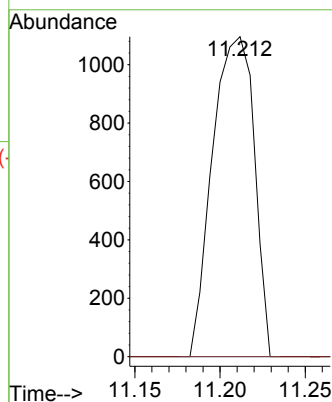
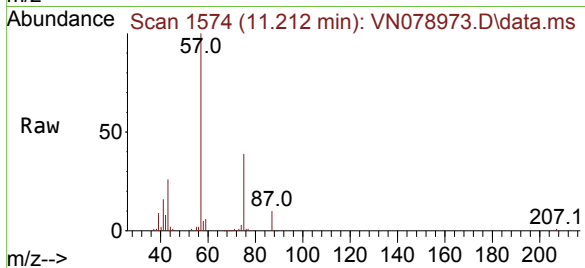
ClientSampleId :

Tgt Ion: 76 Resp: 1868

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 53.770 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078973.D

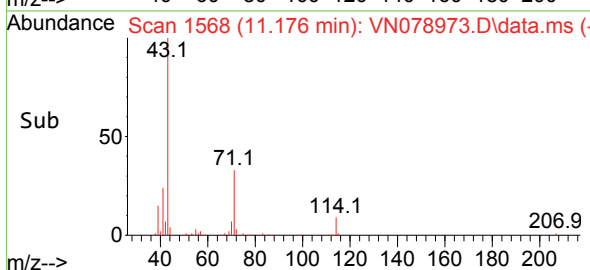
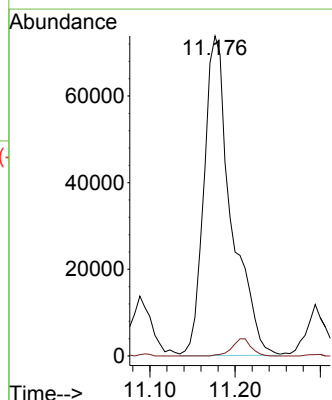
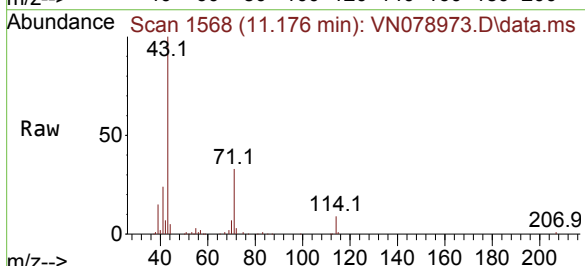
Acq: 21 Aug 2023 14:32

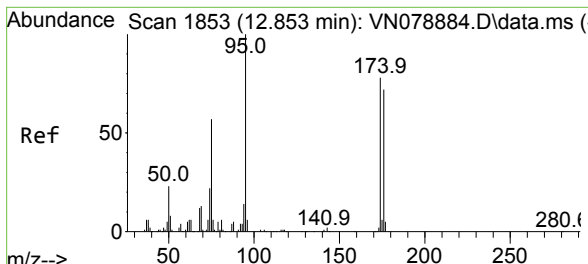
Tgt Ion: 43 Resp: 164201

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

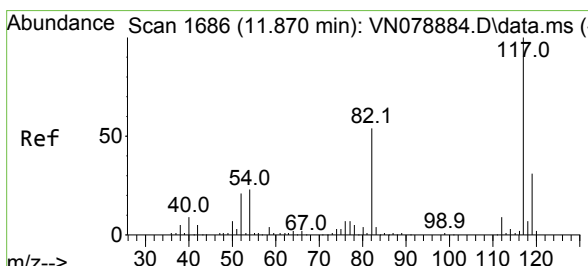
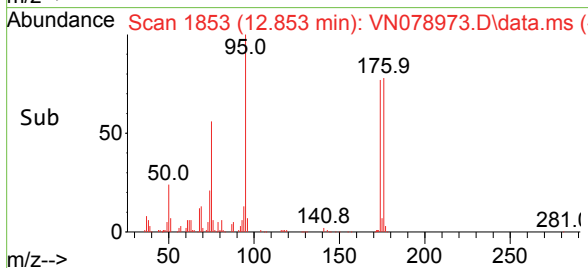
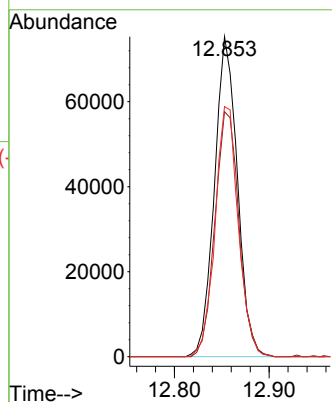
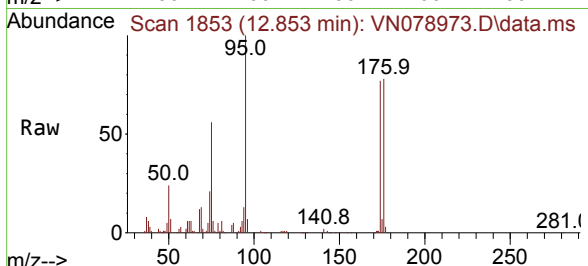




#62
 4-Bromofluorobenzene
 Concen: 43.697 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN078973.D
 Acq: 21 Aug 2023 14:32

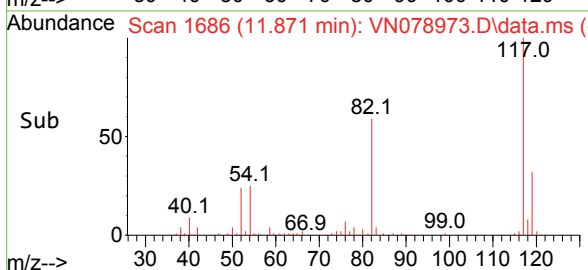
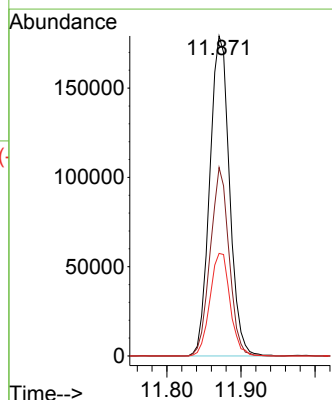
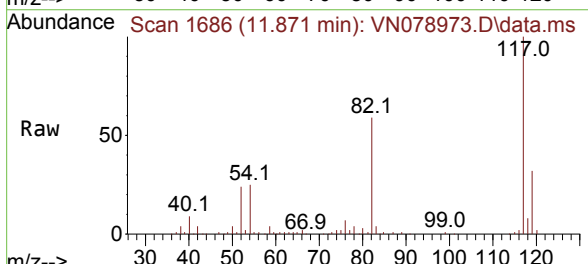
Instrument :
 MSVOA_N
 ClientSampleId :

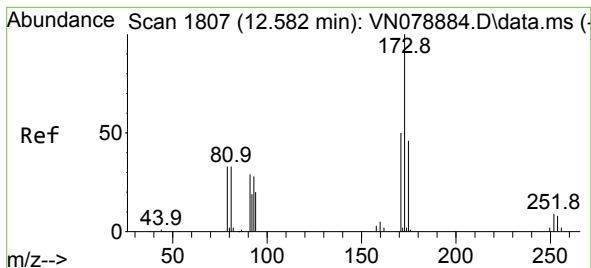
Tgt Ion:	95	Resp:	126730
Ion	Ratio	Lower	Upper
95	100		
174	80.0	0.0	143.8
176	79.2	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. -0.001 min
 Lab File: VN078973.D
 Acq: 21 Aug 2023 14:32

Tgt Ion:	117	Resp:	331770
Ion	Ratio	Lower	Upper
117	100		
82	58.9	44.0	66.0
119	32.1	25.6	38.4





#71

Bromoform

Concen: 0.477 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.265 min

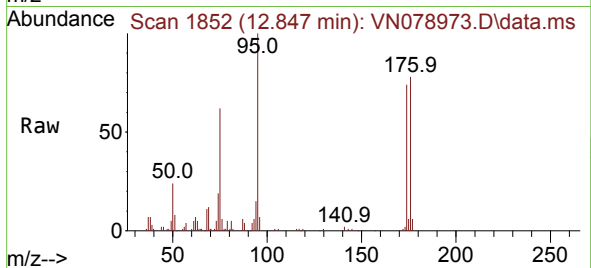
Lab File: VN078973.D

Acq: 21 Aug 2023 14:32

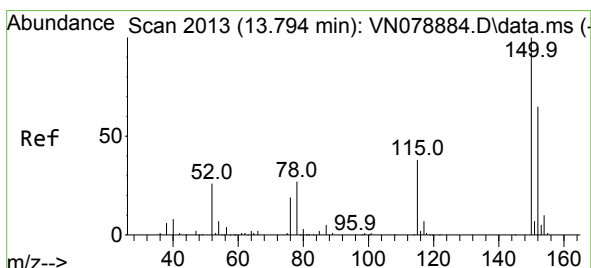
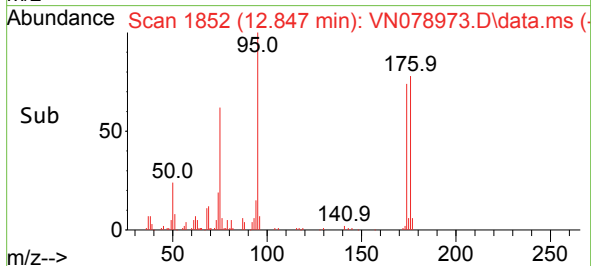
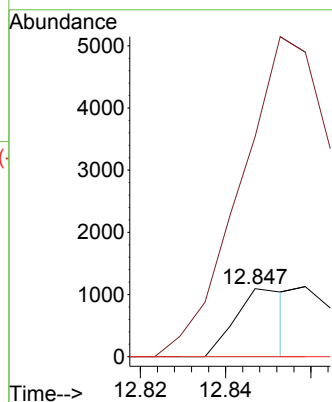
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	926
Ion Ratio	Lower	Upper	
173	100		
175	649.8	24.3	73.0#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

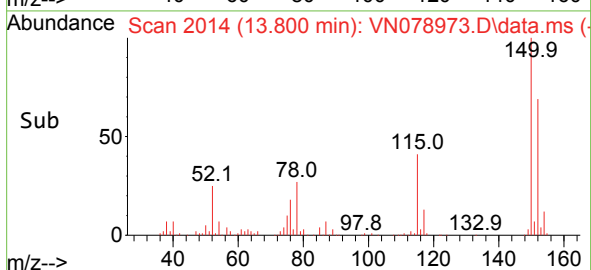
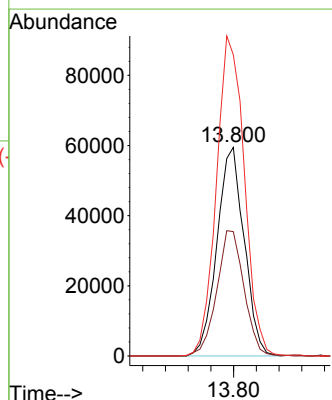
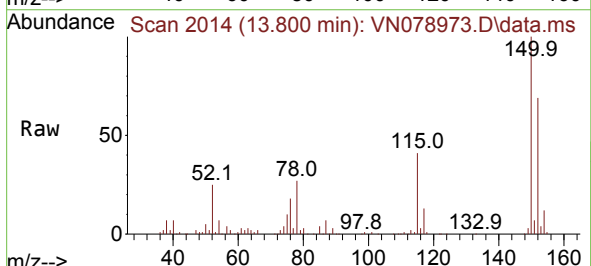
RT: 13.800 min Scan# 2014

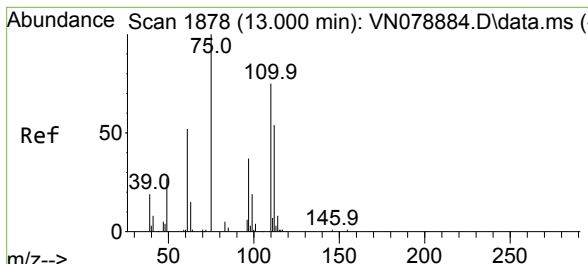
Delta R.T. 0.006 min

Lab File: VN078973.D

Acq: 21 Aug 2023 14:32

Tgt Ion:	152	Resp:	98856
Ion Ratio	Lower	Upper	
152	100		
115	60.1	32.3	96.8
150	157.6	0.0	355.8

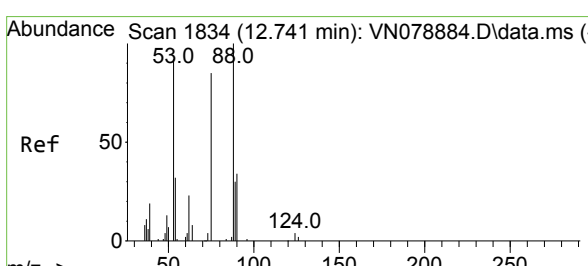
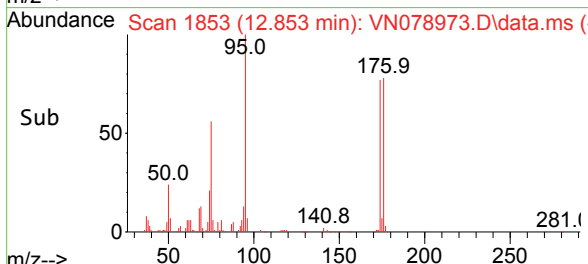
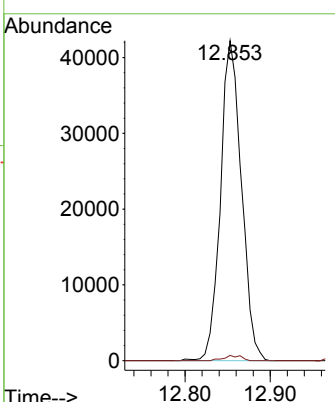
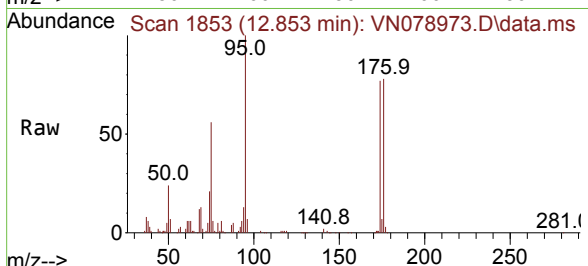




#76
 1,2,3-Trichloropropane
 Concen: 30.278 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.147 min
 Lab File: VN078973.D
 Acq: 21 Aug 2023 14:32

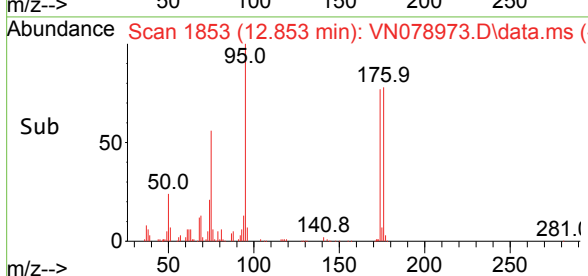
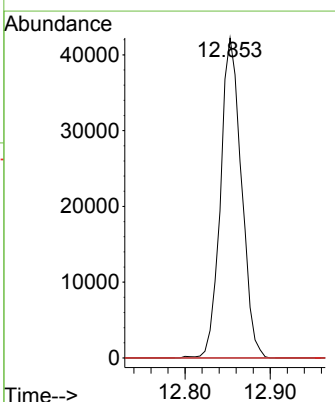
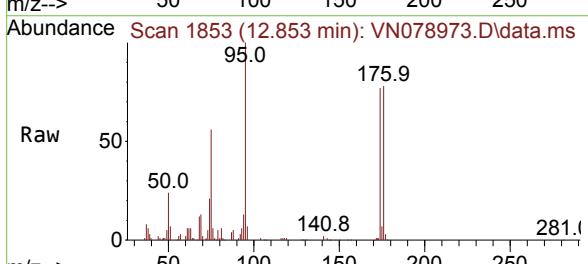
Instrument :
 MSVOA_N
 ClientSampleId :

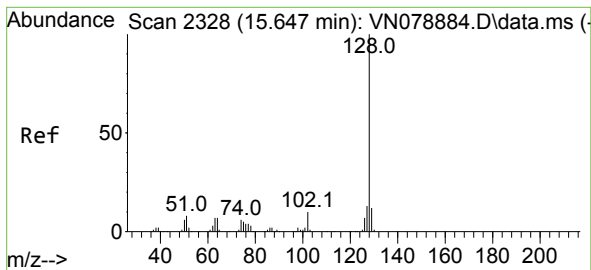
Tgt Ion: 75 Resp: 72121
 Ion Ratio Lower Upper
 75 100
 77 1.4 84.5 253.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.348 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN078973.D
 Acq: 21 Aug 2023 14:32

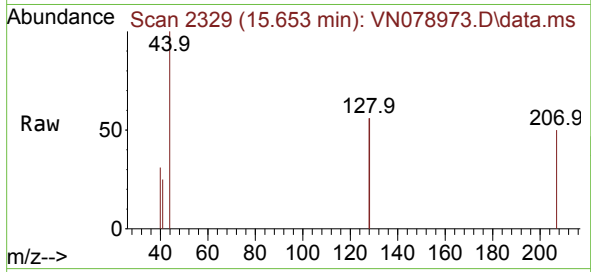
Tgt Ion: 75 Resp: 72121
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#





#95
 Naphthalene
 Concen: 2.872 ug/l
 RT: 15.653 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN078973.D
 Acq: 21 Aug 2023 14:32

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	128	Resp:	1430
Ion	Ratio	Lower	Upper
128	100		
127	5.7	10.0	15.0#
129	0.0	8.7	13.1#

