

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061923\
 Data File : VN078293.D
 Acq On : 19 Jun 2023 21:03
 Operator : JC\MD
 Sample : 03320-20
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-14A

Quant Time: Jun 20 01:36:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

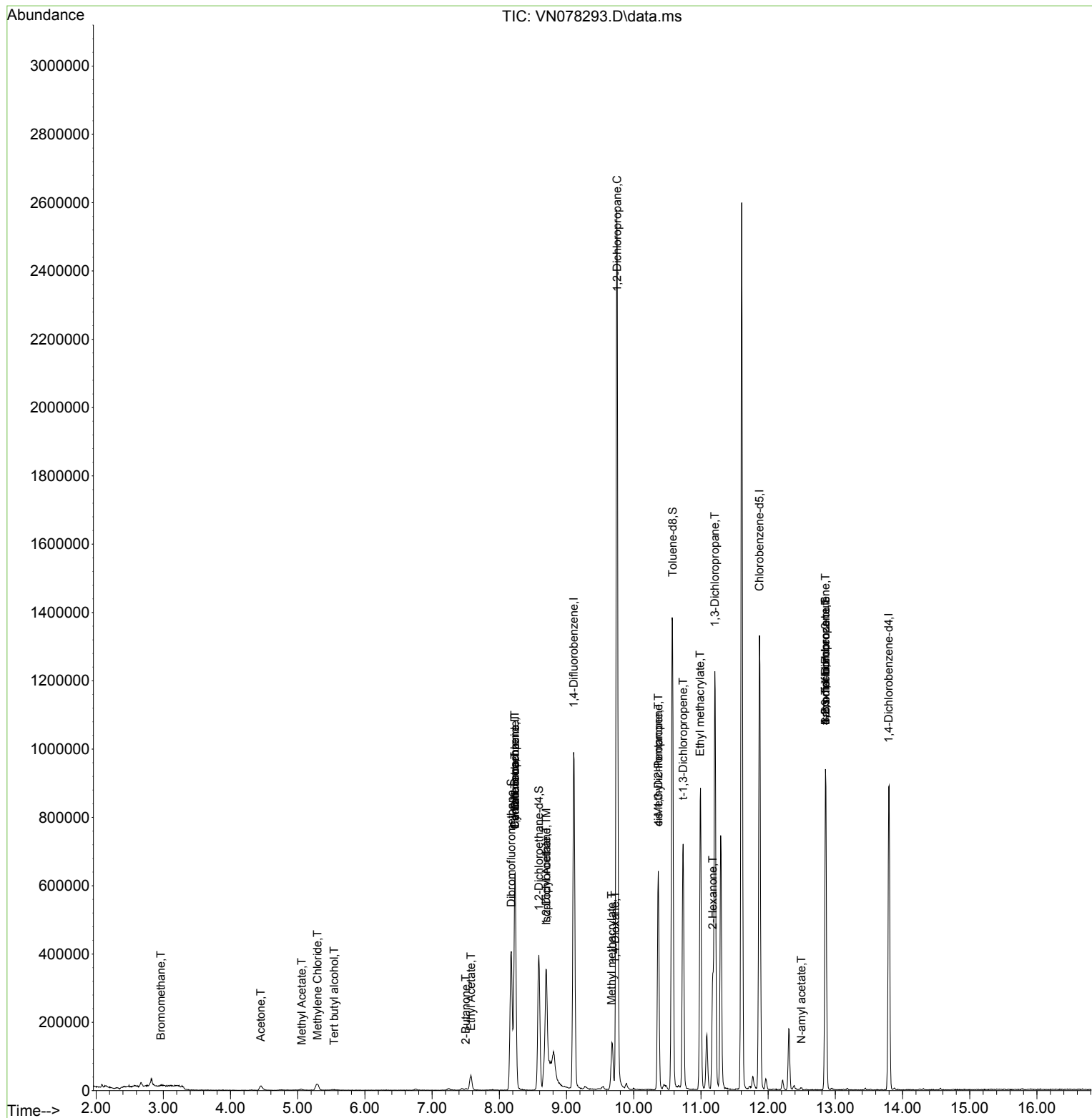
Internal Standards						
1) Pentafluorobenzene	8.236	168	458593	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	876987	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	791621	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	244617	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	329205	53.841	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.680%			
35) Dibromofluoromethane	8.177	113	301327	54.341	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.680%			
50) Toluene-d8	10.577	98	1013397	47.406	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.820%			
62) 4-Bromofluorobenzene	12.853	95	325179	48.932	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 97.860%			
Target Compounds						Qvalue
3) Chloromethane	2.377	50	975	Below Cal	#	87
5) Bromomethane	2.965	94	1926	0.375	ug/l	85
11) Tert butyl alcohol	5.542	59	1893	2.242	ug/l #	72
16) Acetone	4.448	43	26428	15.016	ug/l #	67
18) Methyl Acetate	5.059	43	5726	0.707	ug/l #	56
20) Methylene Chloride	5.295	84	16288	2.801	ug/l #	80
25) 2-Butanone	7.500	43	6989	2.582	ug/l #	81
31) Cyclohexane	8.230	56	11548	1.472	ug/l #	36
36) 1,1-Dichloropropene	8.230	75	39973	5.026	ug/l #	47
37) Ethyl Acetate	7.577	43	66550	10.711	ug/l #	97
38) Carbon Tetrachloride	8.230	117	50449	6.007	ug/l #	15
42) 1,2-Dichloroethane	8.700	62	2473	0.304	ug/l #	73
43) Isopropyl Acetate	8.700	43	465101	39.140	ug/l #	73
45) 1,2-Dichloropropane	9.753	63	3686	0.624	ug/l #	45
48) Methyl methacrylate	9.671	41	9253	1.856	ug/l #	27
49) 1,4-Dioxane	9.724	88	67	0.639	ug/l #	30
51) 4-Methyl-2-Pentanone	10.365	43	222000	35.478	ug/l #	42
53) t-1,3-Dichloropropene	10.735	75	2288	0.272	ug/l #	49
54) cis-1,3-Dichloropropene	10.365	75	118570	12.742	ug/l #	68
56) Ethyl methacrylate	10.988	69	3136	0.380	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	12852	1.343	ug/l #	42
59) 2-Hexanone	11.177	43	256246	58.812	ug/l #	19
71) Bromoform	12.853	173	1686	0.419	ug/l #	1
74) N-amyl acetate	12.494	43	1837	0.241	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.965	83	266	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	175870	30.412	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	175870	93.437	ug/l #	15

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

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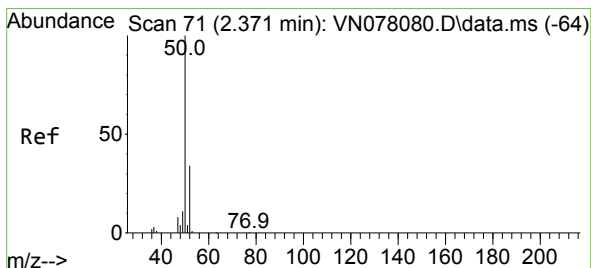
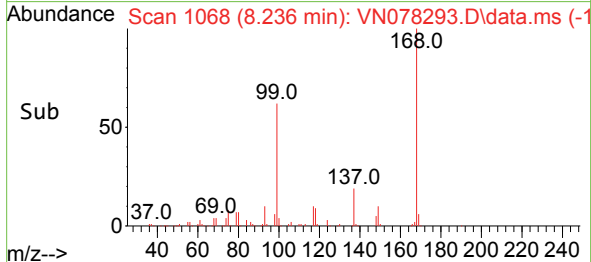
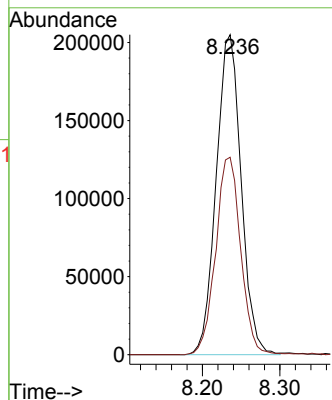
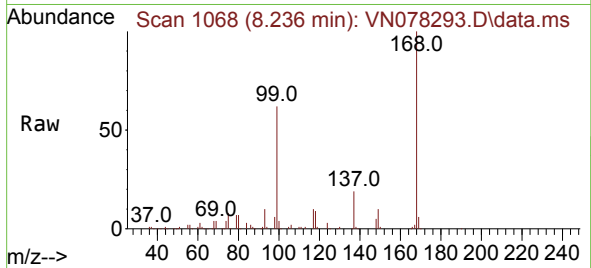




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. 0.001 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

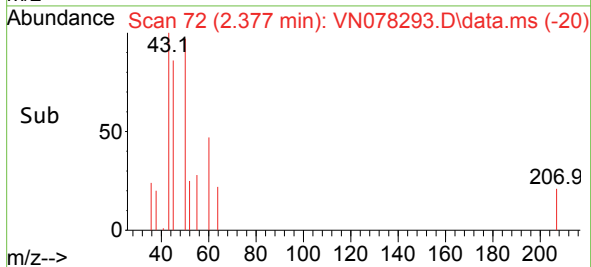
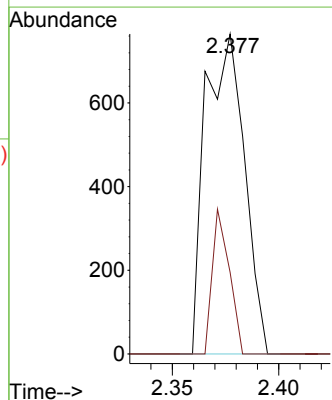
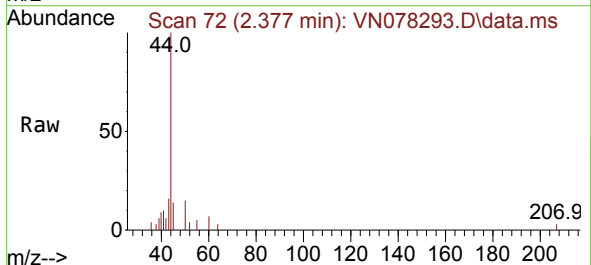
Instrument :
MSVOA_N
ClientSampleId :
WC-14A

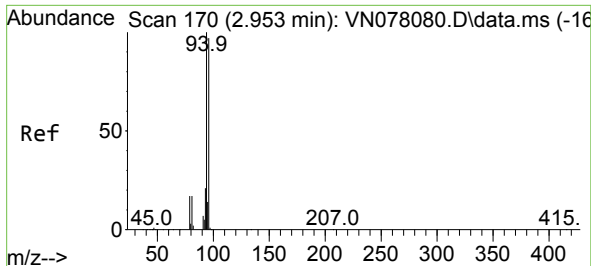
Tgt Ion:168 Resp: 458593
Ion Ratio Lower Upper
168 100
99 61.7 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

Tgt Ion: 50 Resp: 975
Ion Ratio Lower Upper
50 100
52 25.5 26.5 39.7#

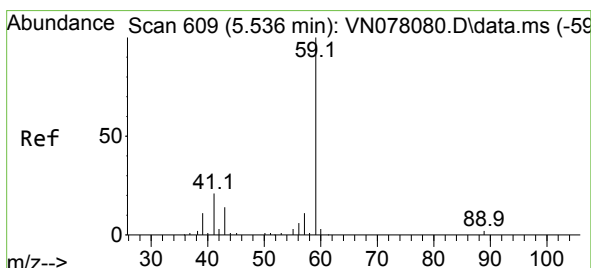
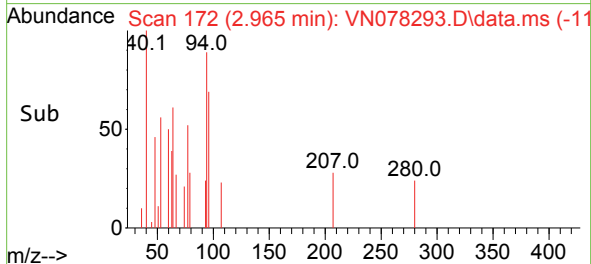
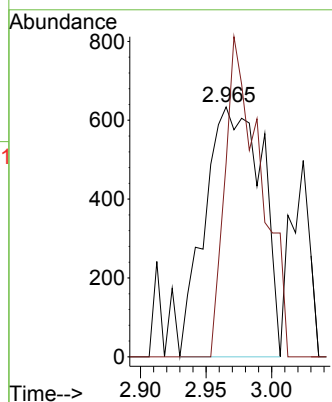
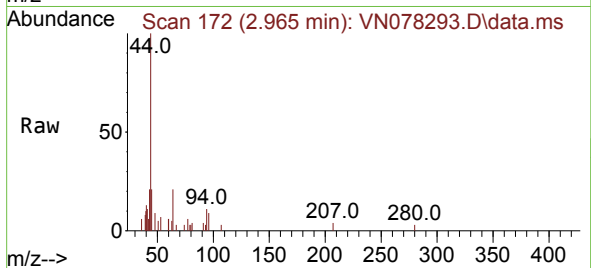




#5
Bromomethane
Concen: 0.375 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

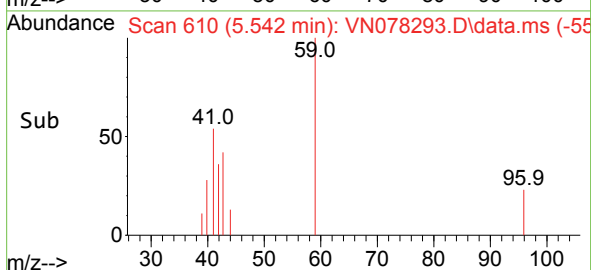
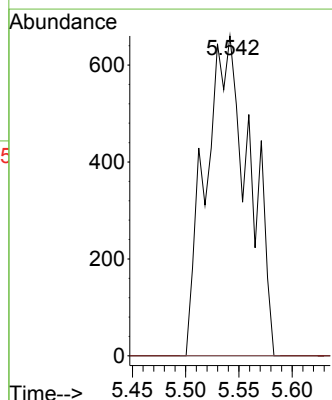
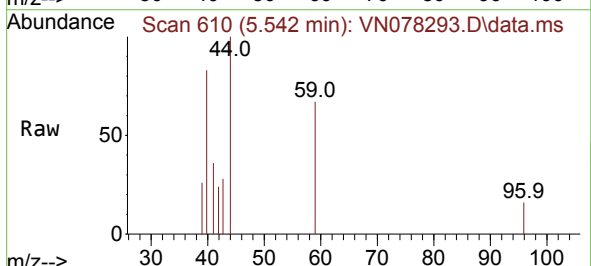
Instrument :
MSVOA_N
ClientSampleId :
WC-14A

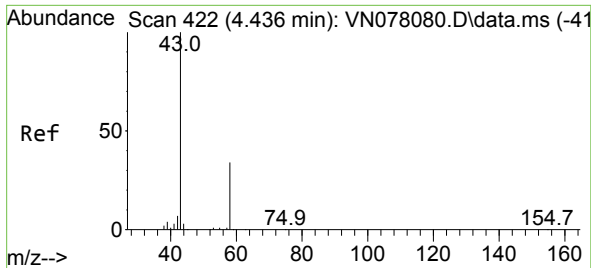
Tgt Ion: 94 Resp: 1926
Ion Ratio Lower Upper
94 100
96 77.6 73.1 109.7



#11
Tert butyl alcohol
Concen: 2.242 ug/l
RT: 5.542 min Scan# 610
Delta R.T. 0.006 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

Tgt Ion: 59 Resp: 1893
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

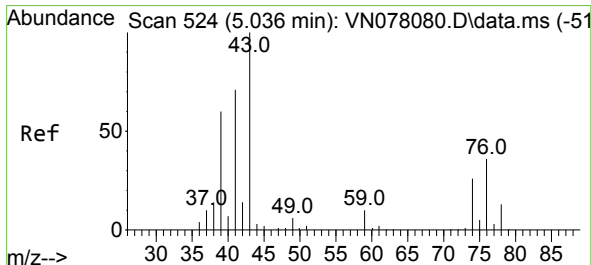
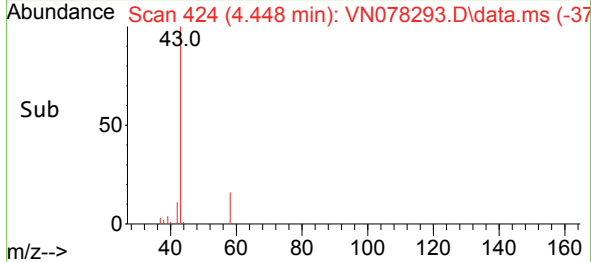
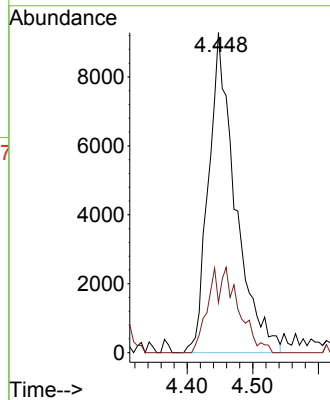
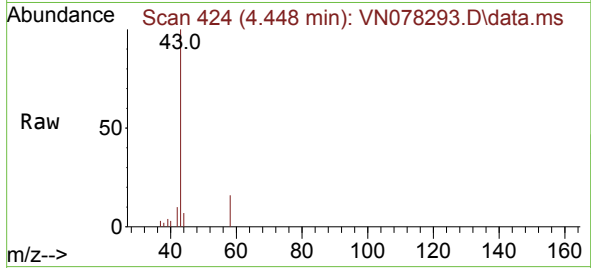




#16
Acetone
Concen: 15.016 ug/l
RT: 4.448 min Scan# 431
Delta R.T. 0.012 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

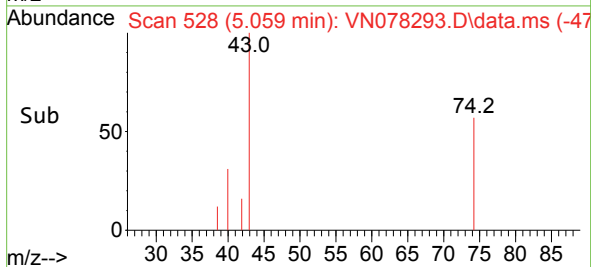
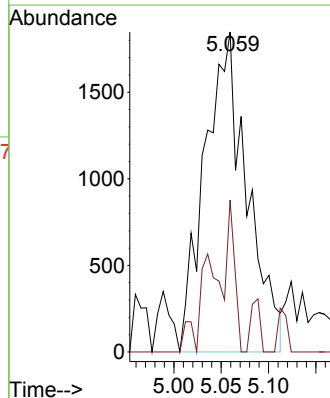
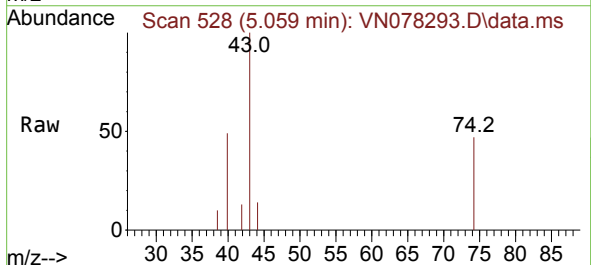
Instrument :
MSVOA_N
ClientSampleId :
WC-14A

Tgt Ion: 43 Resp: 26428
Ion Ratio Lower Upper
43 100
58 15.6 28.0 42.0#



#18
Methyl Acetate
Concen: 0.707 ug/l
RT: 5.059 min Scan# 528
Delta R.T. 0.024 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

Tgt Ion: 43 Resp: 5726
Ion Ratio Lower Upper
43 100
74 8.1 26.2 39.4#

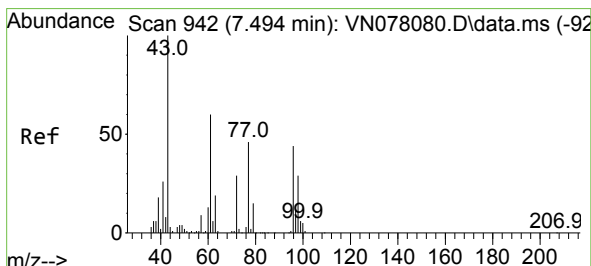
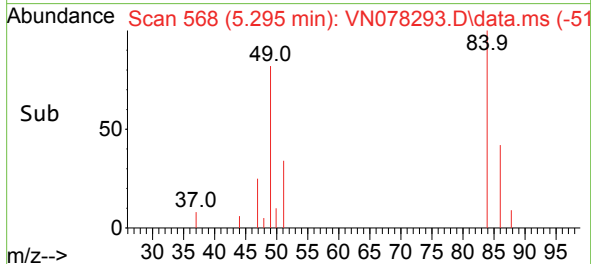
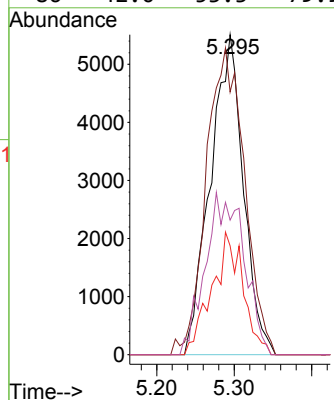
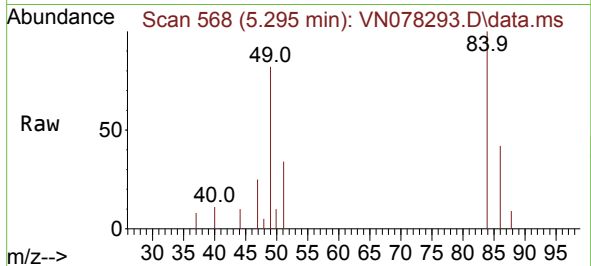




#20
Methylene Chloride
Concen: 2.801 ug/l
RT: 5.295 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

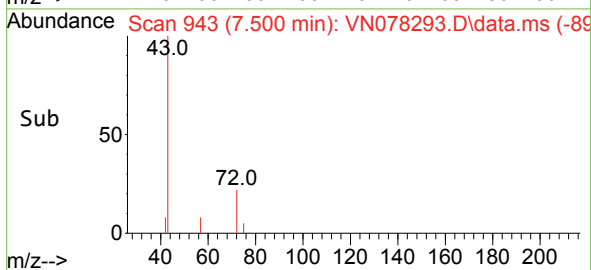
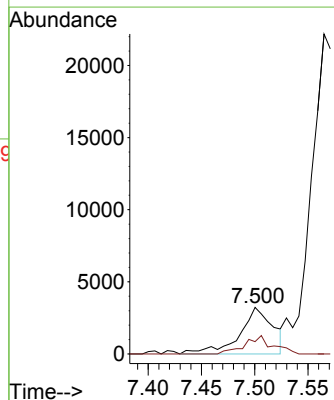
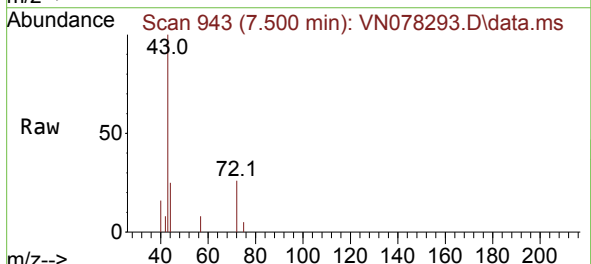
Instrument :
MSVOA_N
ClientSampleId :
WC-14A

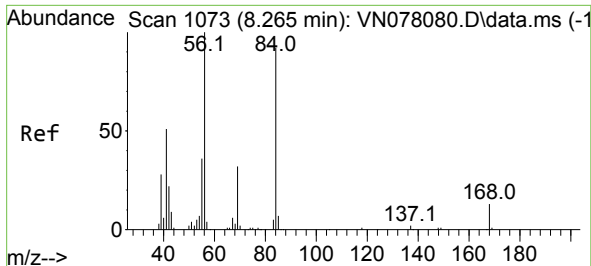
Tgt Ion:	84	Resp:	16288
Ion	Ratio	Lower	Upper
84	100		
49	82.1	79.7	119.5
51	34.0	25.2	37.8
86	42.0	53.3	79.9#



#25
2-Butanone
Concen: 2.582 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

Tgt Ion:	43	Resp:	6989
Ion	Ratio	Lower	Upper
43	100		
72	26.5	30.2	45.2#

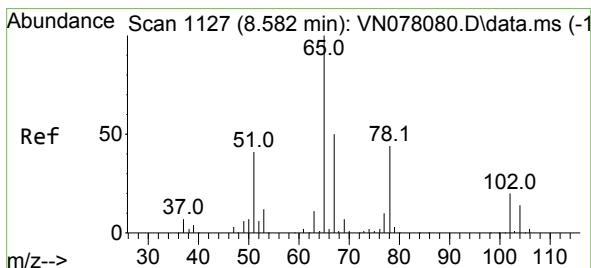
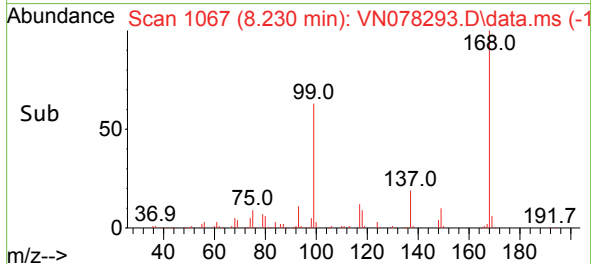
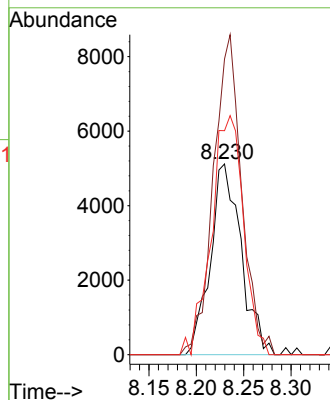
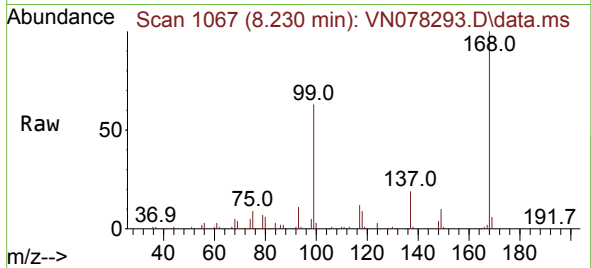




#31
Cyclohexane
Concen: 1.472 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

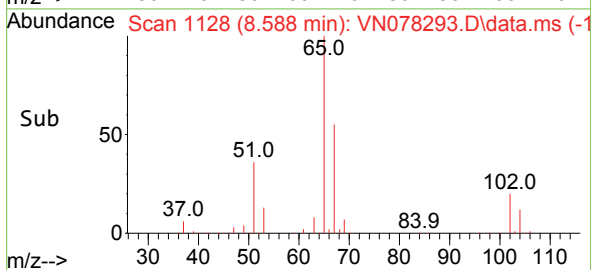
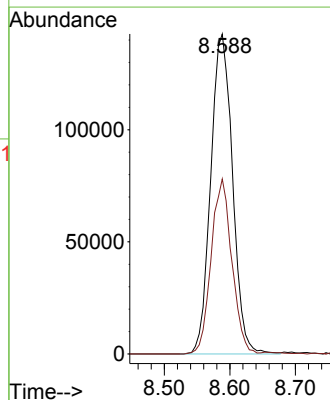
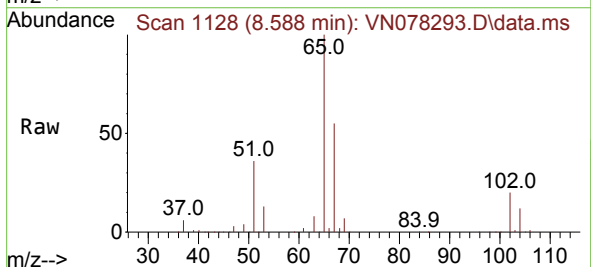
Instrument :
MSVOA_N
ClientSampleId :
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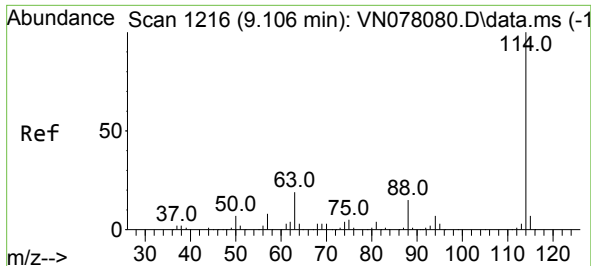
Tgt Ion: 56 Resp: 11548
Ion Ratio Lower Upper
56 100
69 155.0 26.8 40.2#
84 117.4 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 53.841 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

Tgt Ion: 65 Resp: 329205
Ion Ratio Lower Upper
65 100
67 51.9 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078293.D

Acq: 19 Jun 2023 21:03

Instrument :

MSVOA_N

ClientSampleId :

WC-14A

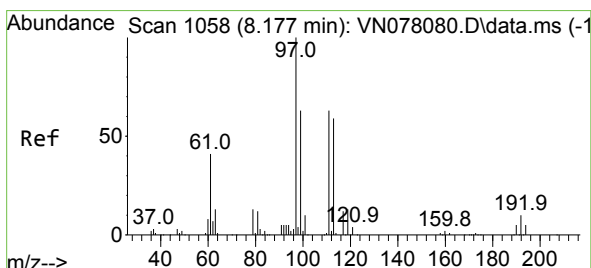
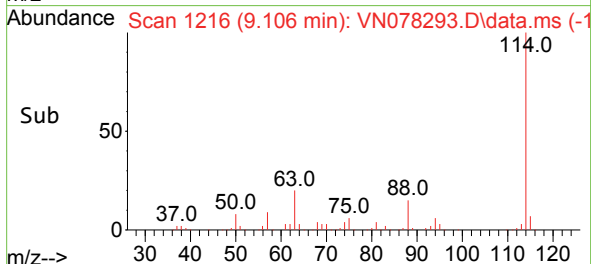
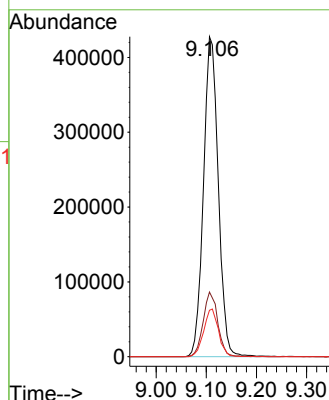
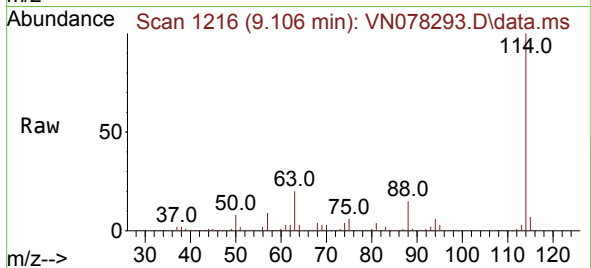
Tgt Ion:114 Resp: 876987

Ion Ratio Lower Upper

114 100

63 20.2 0.0 36.4

88 14.5 0.0 30.6



#35

Dibromofluoromethane

Concen: 54.341 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VN078293.D

Acq: 19 Jun 2023 21:03

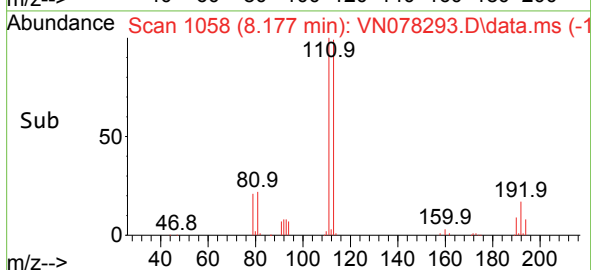
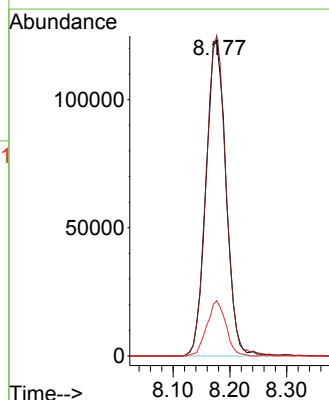
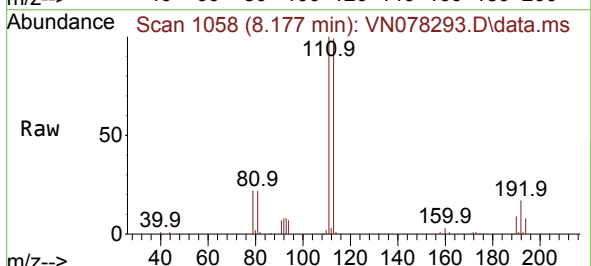
Tgt Ion:113 Resp: 301327

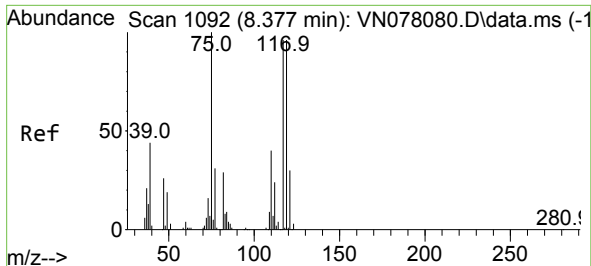
Ion Ratio Lower Upper

113 100

111 100.8 82.6 123.8

192 16.6 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.026 ug/l

RT: 8.230 min Scan# 1092

Delta R.T. -0.147 min

Lab File: VN078293.D

Acq: 19 Jun 2023 21:03

Instrument :

MSVOA_N

ClientSampleId :

WC-14A

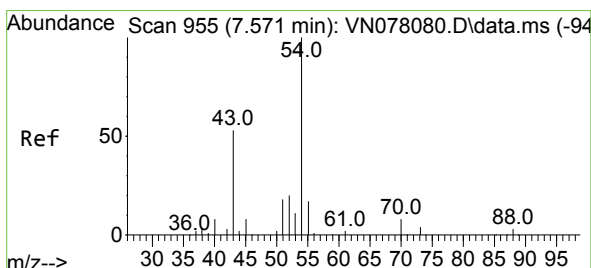
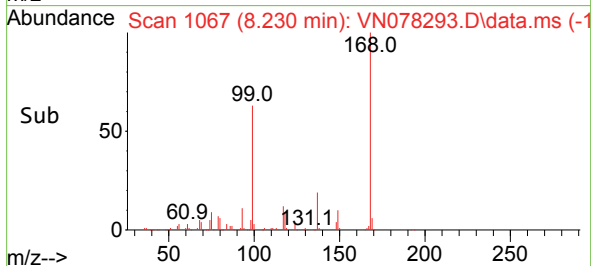
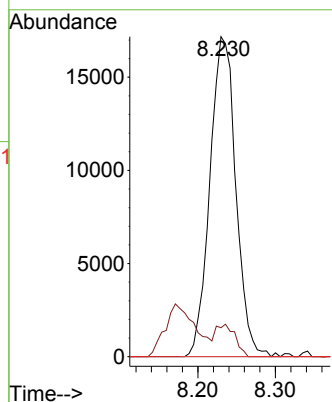
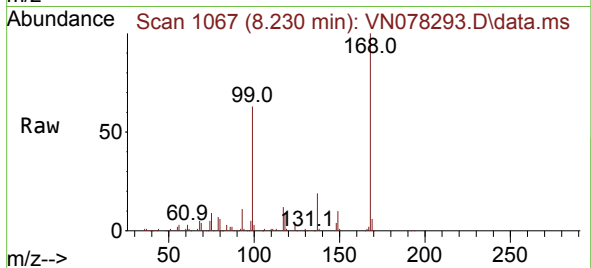
Tgt Ion: 75 Resp: 39973

Ion Ratio Lower Upper

75 100

110 7.5 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 10.711 ug/l

RT: 7.577 min Scan# 956

Delta R.T. 0.006 min

Lab File: VN078293.D

Acq: 19 Jun 2023 21:03

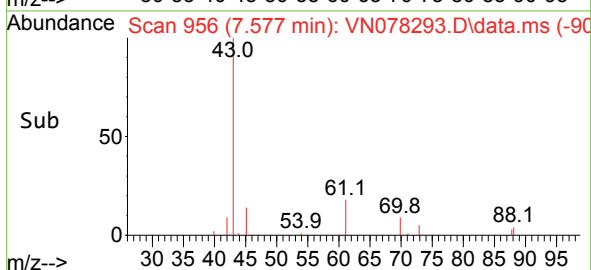
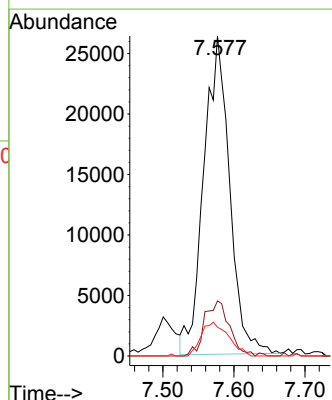
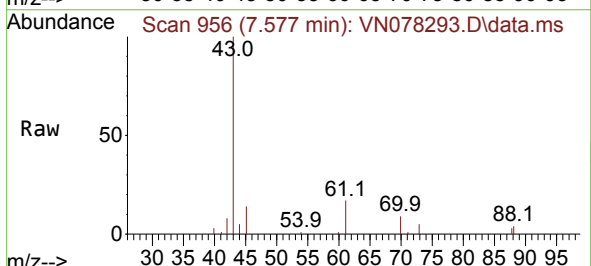
Tgt Ion: 43 Resp: 66550

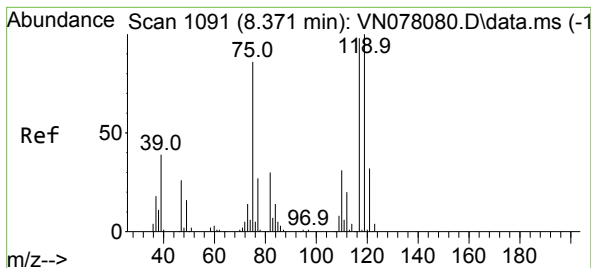
Ion Ratio Lower Upper

43 100

61 16.6 13.2 19.8

70 11.1 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 6.007 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.141 min

Lab File: VN078293.D

Acq: 19 Jun 2023 21:03

Instrument :

MSVOA_N

ClientSampleId :

WC-14A

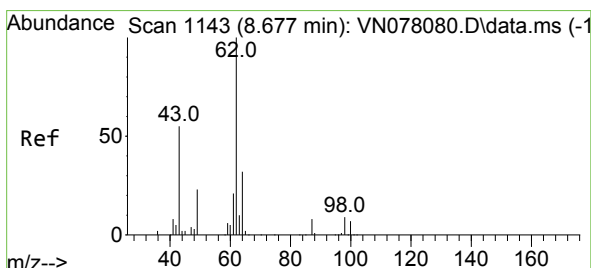
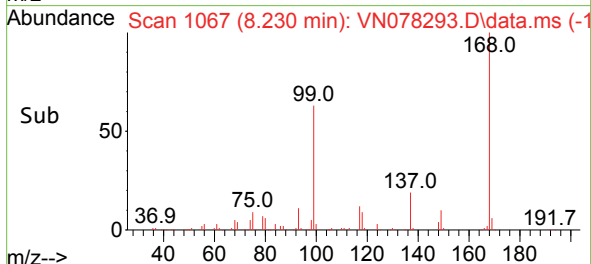
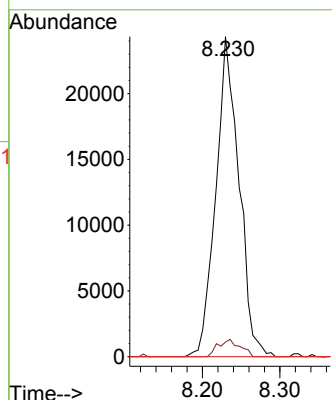
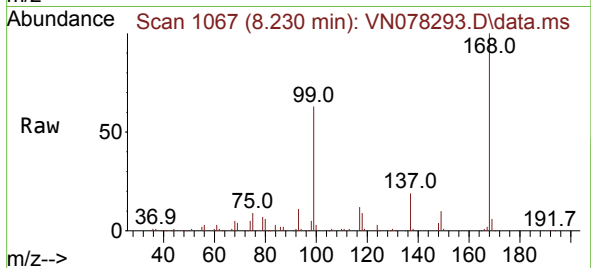
Tgt Ion:117 Resp: 50449

Ion Ratio Lower Upper

117 100

119 4.6 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.304 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.024 min

Lab File: VN078293.D

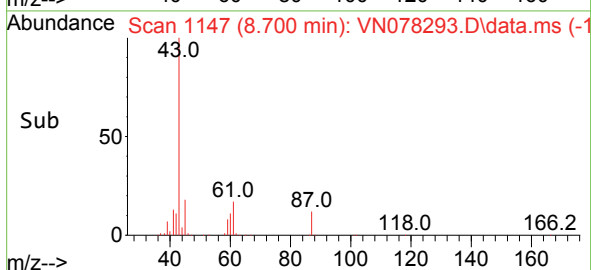
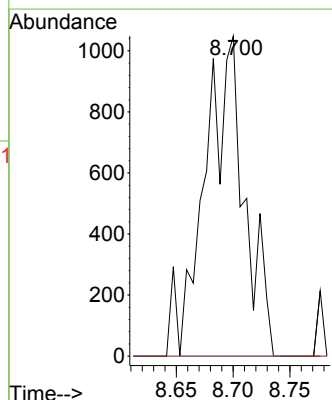
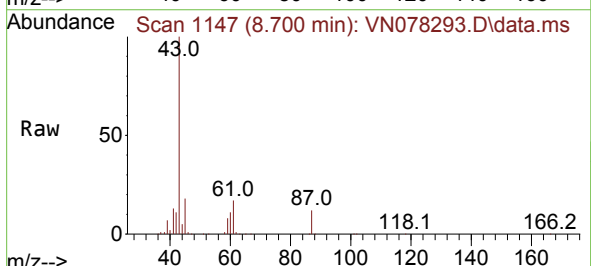
Acq: 19 Jun 2023 21:03

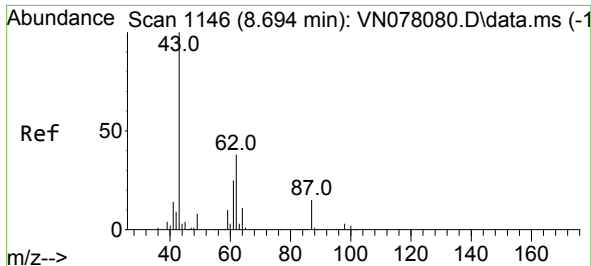
Tgt Ion: 62 Resp: 2473

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

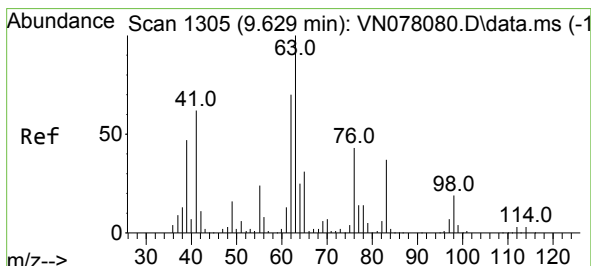
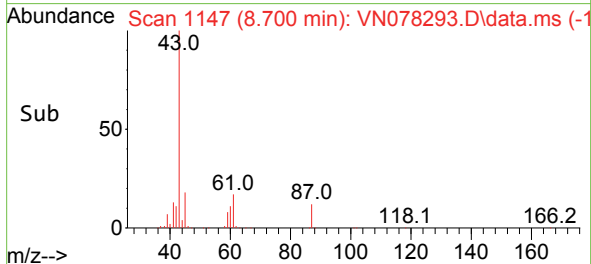
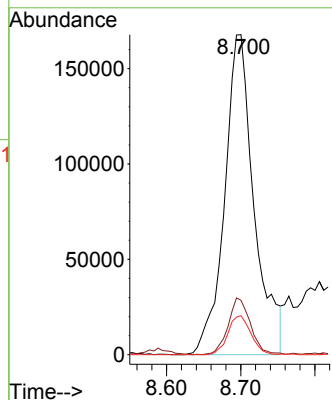
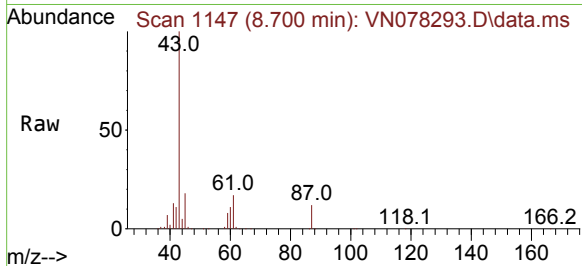




#43
Isopropyl Acetate
Concen: 39.140 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

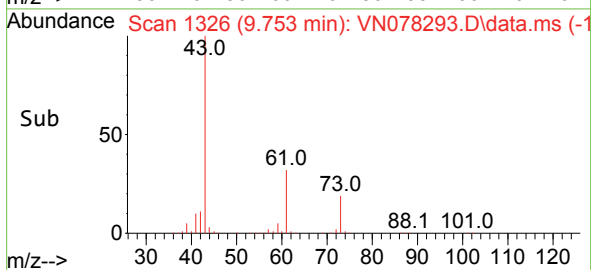
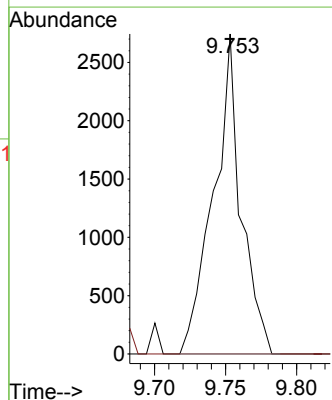
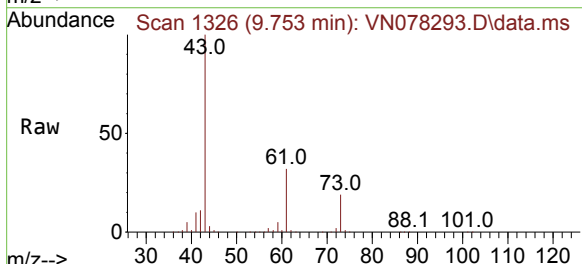
Instrument :
MSVOA_N
ClientSampleId :
WC-14A

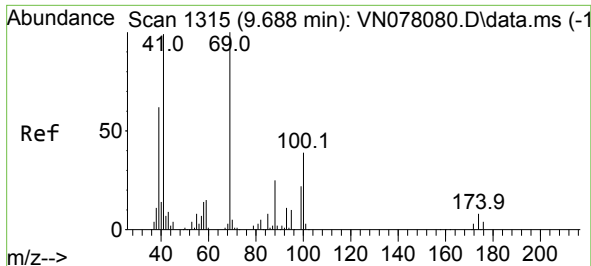
Tgt Ion: 43 Resp: 465101
Ion Ratio Lower Upper
43 100
61 13.5 24.7 37.1#
87 9.4 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.624 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.124 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

Tgt Ion: 63 Resp: 3686
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

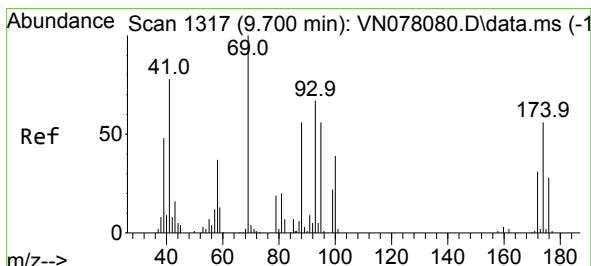
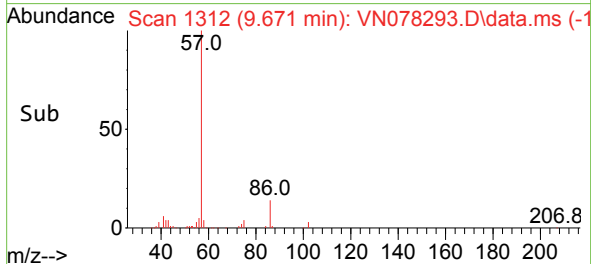
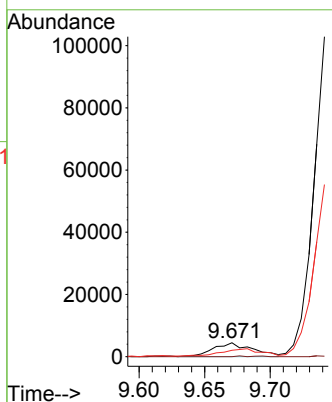
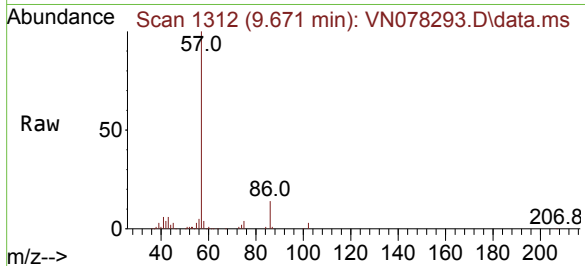




#48
Methyl methacrylate
Concen: 1.856 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

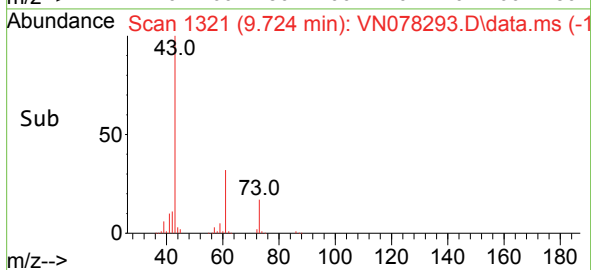
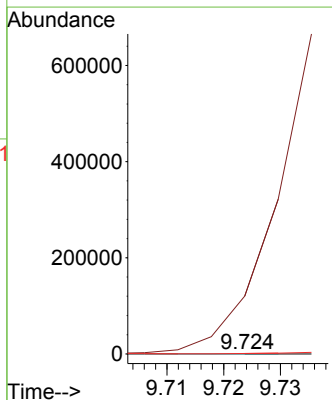
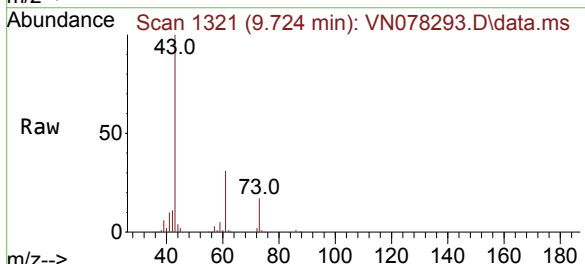
Instrument :
MSVOA_N
ClientSampleId :
WC-14A

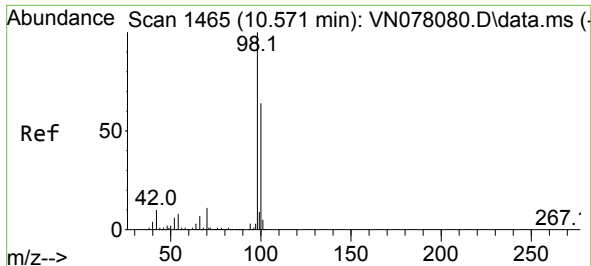
Tgt Ion: 41 Resp: 9253
Ion Ratio Lower Upper
41 100
69 0.9 90.4 135.6#
39 51.6 54.6 81.8#



#49
1,4-Dioxane
Concen: 0.639 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.024 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

Tgt Ion: 88 Resp: 67
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#

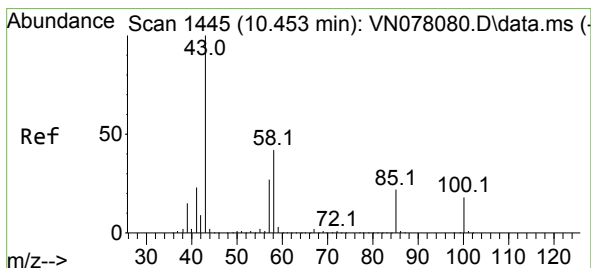
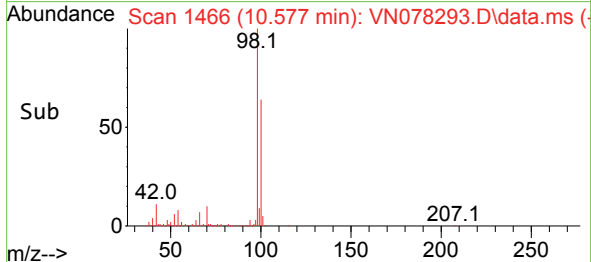
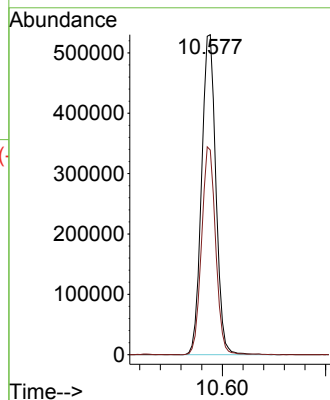
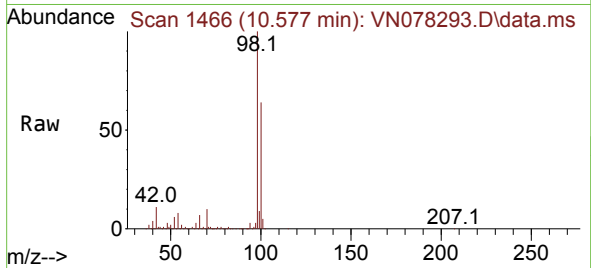




#50
Toluene-d8
Concen: 47.406 ug/l
RT: 10.577 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

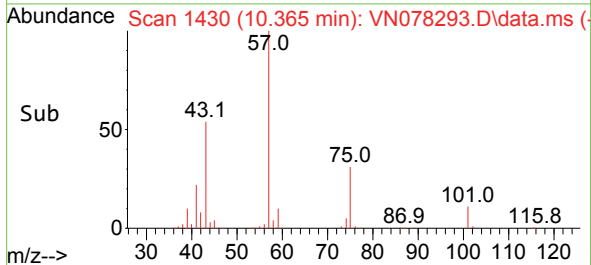
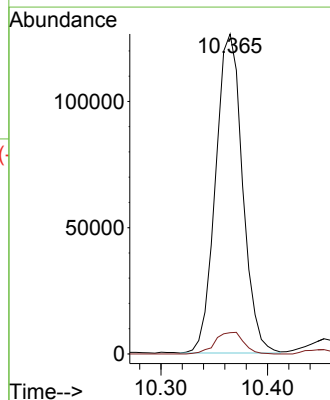
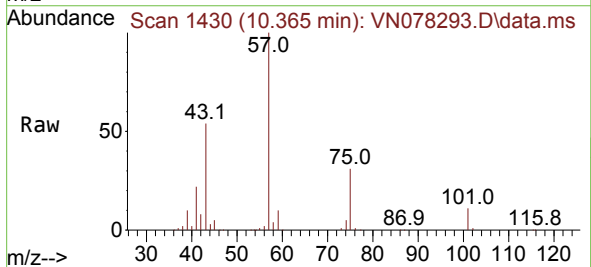
Instrument :
MSVOA_N
ClientSampleId :
WC-14A

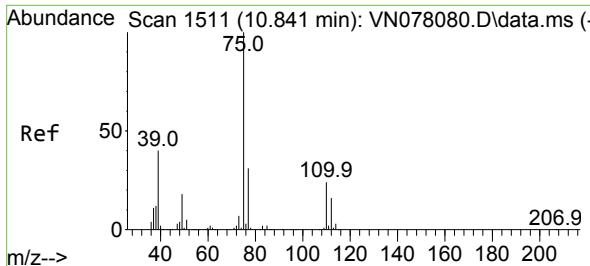
Tgt Ion: 98 Resp: 1013397
Ion Ratio Lower Upper
98 100
100 64.0 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 35.478 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.088 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

Tgt Ion: 43 Resp: 222000
Ion Ratio Lower Upper
43 100
58 7.2 36.6 54.8#

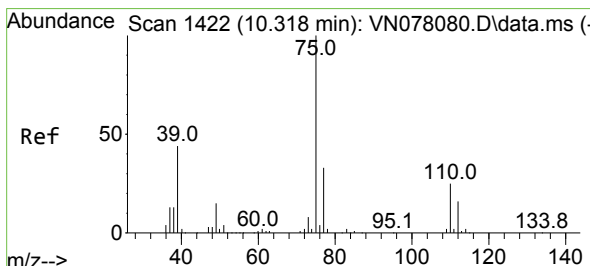
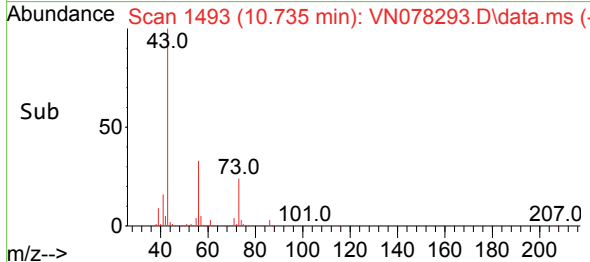
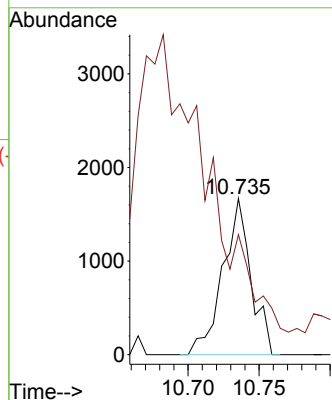
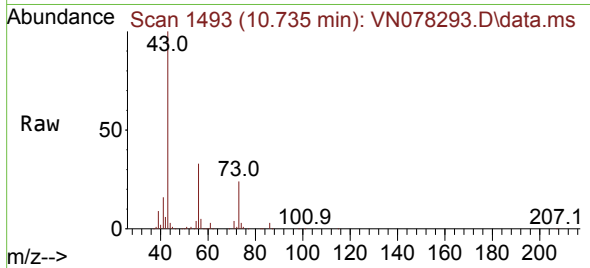




#53
t-1,3-Dichloropropene
Concen: 0.272 ug/l
RT: 10.735 min Scan# 14
Delta R.T. -0.106 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

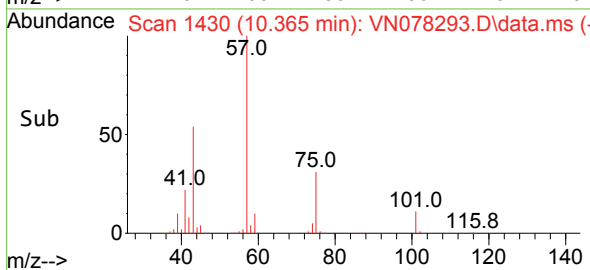
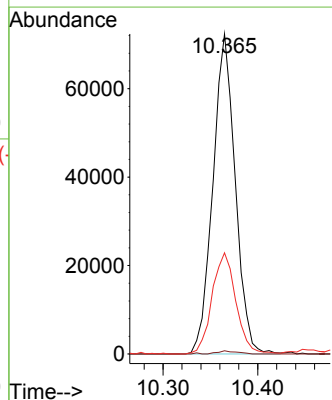
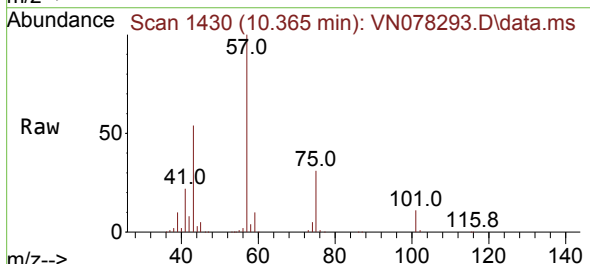
Instrument :
MSVOA_N
ClientSampleId :
WC-14A

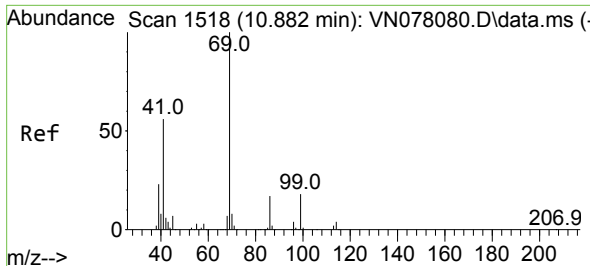
Tgt Ion: 75 Resp: 2288
Ion Ratio Lower Upper
75 100
77 59.9 25.4 38.0#



#54
cis-1,3-Dichloropropene
Concen: 12.742 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

Tgt Ion: 75 Resp: 118570
Ion Ratio Lower Upper
75 100
77 1.0 26.1 39.1#
39 31.6 31.6 47.4#

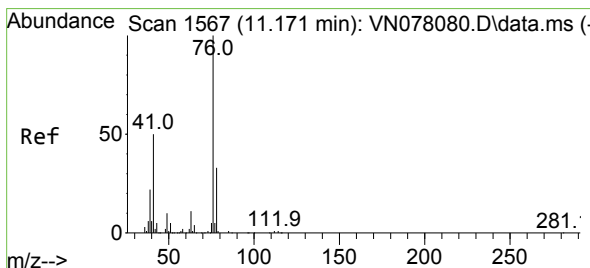
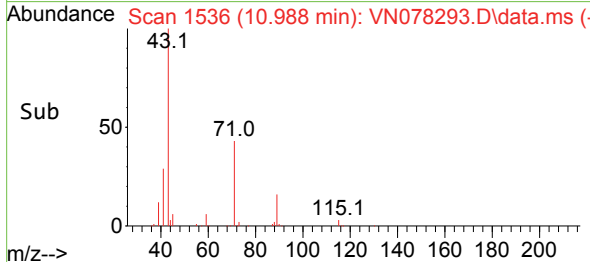
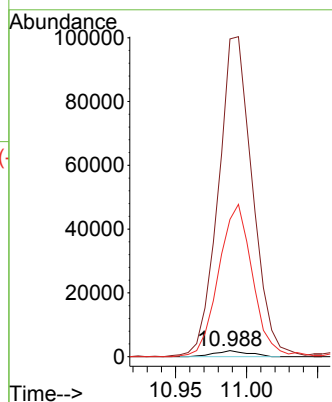
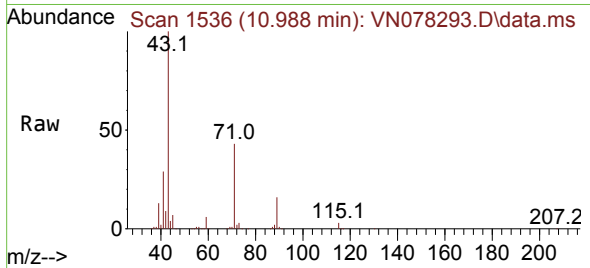




#56
Ethyl methacrylate
Concen: 0.380 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.106 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

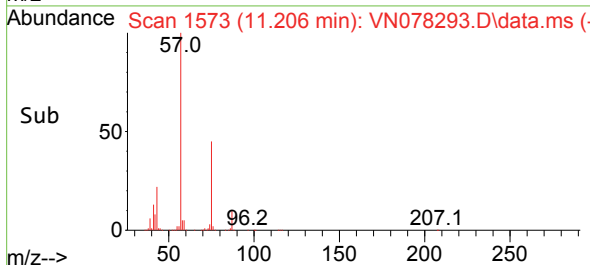
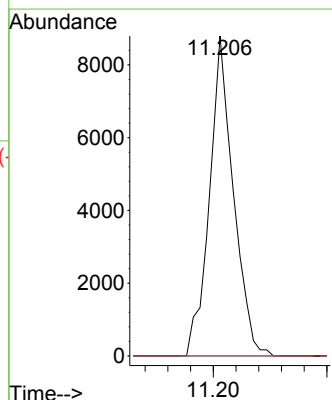
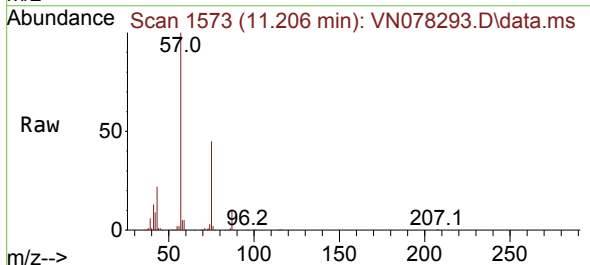
Instrument :
MSVOA_N
ClientSampleId :
WC-14A

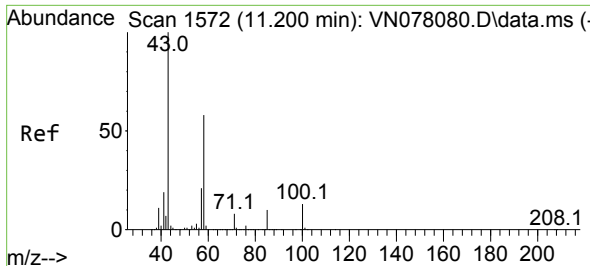
Tgt Ion: 69 Resp: 3136
Ion Ratio Lower Upper
69 100
41 5357.2 39.6 59.4#
39 2537.7 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.343 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

Tgt Ion: 76 Resp: 12852
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

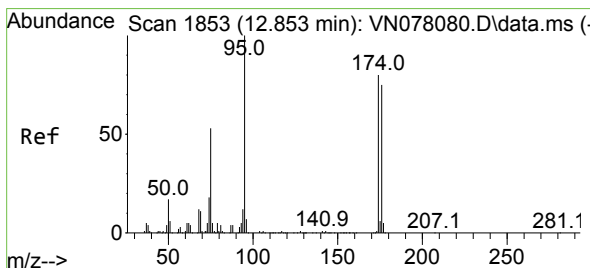
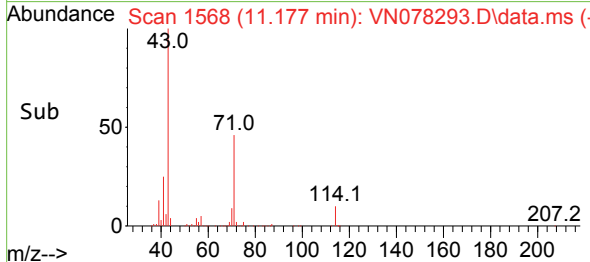
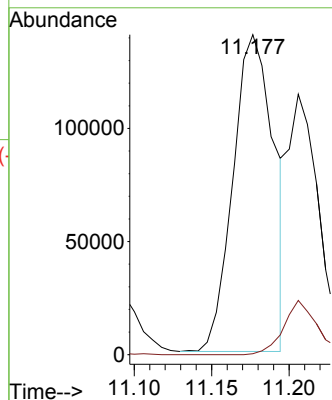
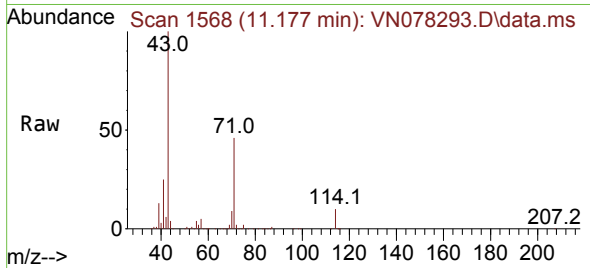




#59
2-Hexanone
Concen: 58.812 ug/l
RT: 11.177 min Scan# 1568
Delta R.T. -0.023 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

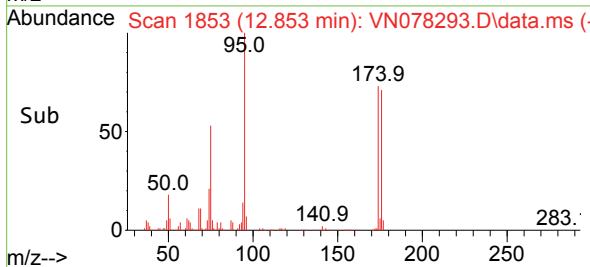
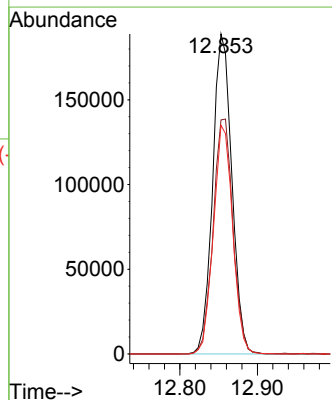
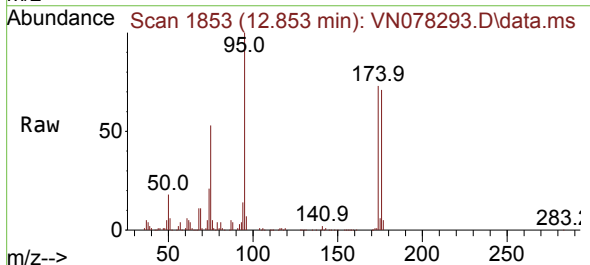
Instrument :
MSVOA_N
ClientSampleId :
WC-14A

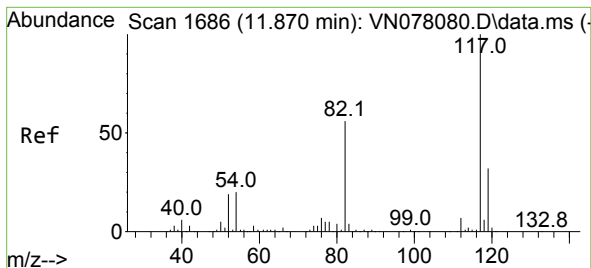
Tgt Ion: 43 Resp: 256246
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 48.932 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

Tgt Ion: 95 Resp: 325179
Ion Ratio Lower Upper
95 100
174 75.9 0.0 143.8
176 71.6 0.0 135.8

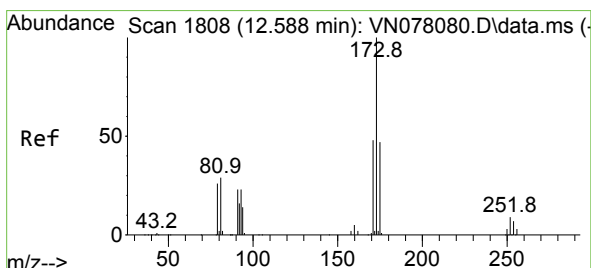
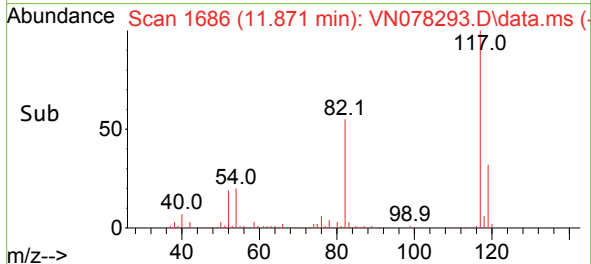
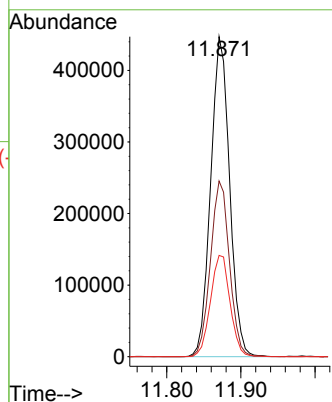
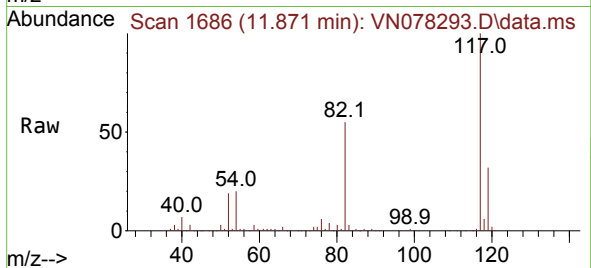




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

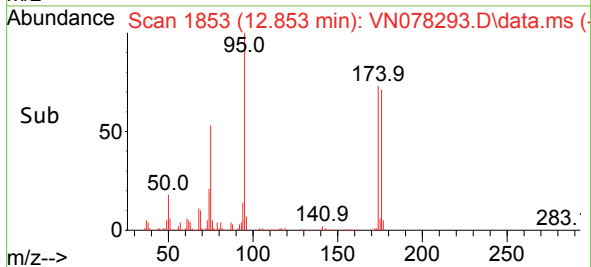
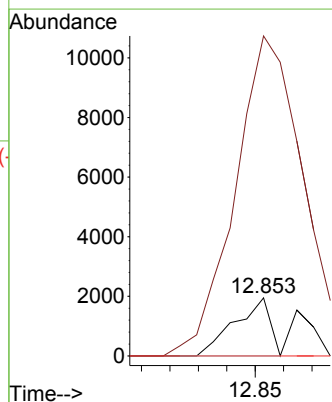
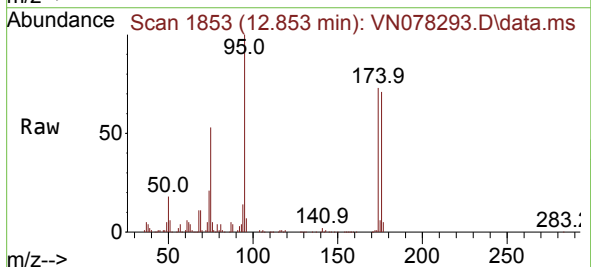
Instrument :
MSVOA_N
ClientSampleId :
WC-14A

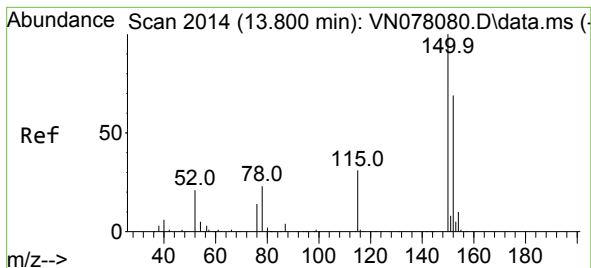
Tgt Ion:117 Resp: 791621
Ion Ratio Lower Upper
117 100
82 54.9 44.0 66.0
119 31.7 25.6 38.4



#71
Bromoform
Concen: 0.419 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.265 min
Lab File: VN078293.D
Acq: 19 Jun 2023 21:03

Tgt Ion:173 Resp: 1686
Ion Ratio Lower Upper
173 100
175 917.3 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. -0.006 min

Lab File: VN078293.D

Acq: 19 Jun 2023 21:03

Instrument :

MSVOA_N

ClientSampleId :

WC-14A

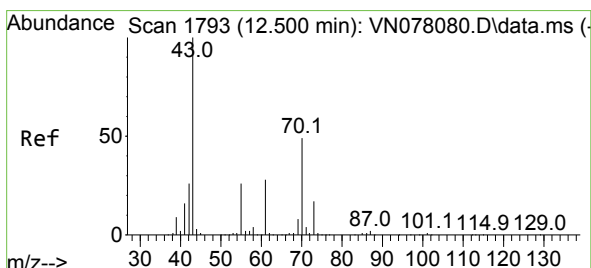
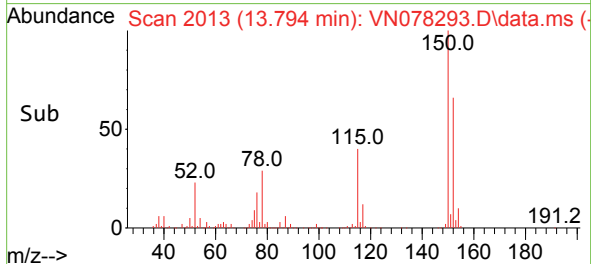
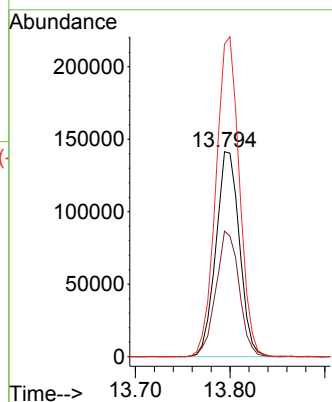
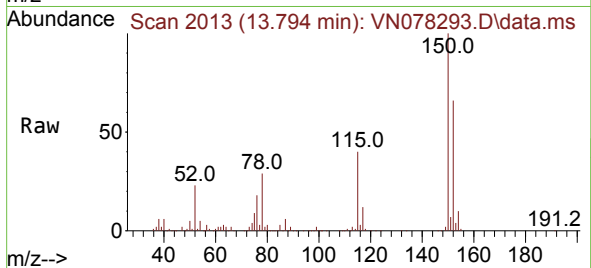
Tgt Ion:152 Resp: 244617

Ion Ratio Lower Upper

152 100

115 60.5 32.3 96.8

150 155.6 0.0 355.8



#74

N-ethyl acetate

Concen: 0.241 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.006 min

Lab File: VN078293.D

Acq: 19 Jun 2023 21:03

Tgt Ion: 43 Resp: 1837

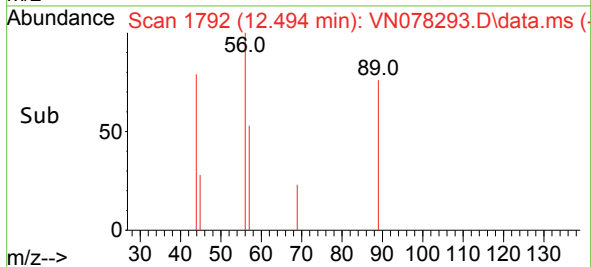
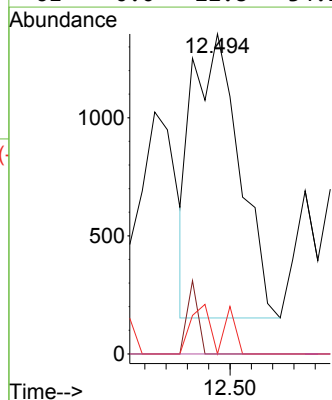
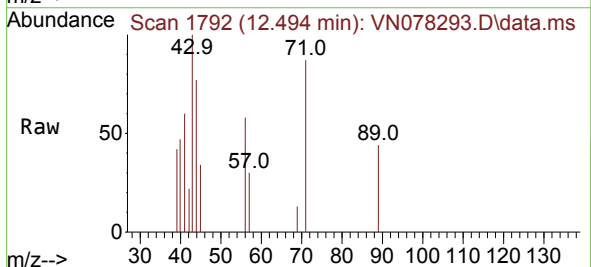
Ion Ratio Lower Upper

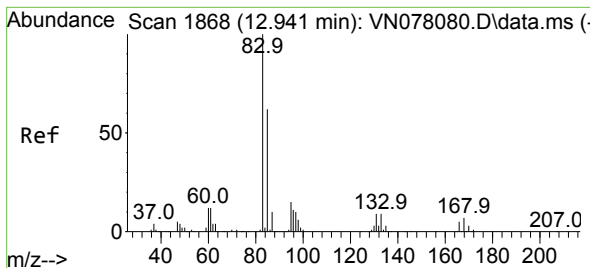
43 100

70 5.9 43.4 65.2#

55 11.1 21.4 32.0#

61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.965 min Scan# 1872

Delta R.T. 0.024 min

Lab File: VN078293.D

Acq: 19 Jun 2023 21:03

Instrument :

MSVOA_N

ClientSampleId :

WC-14A

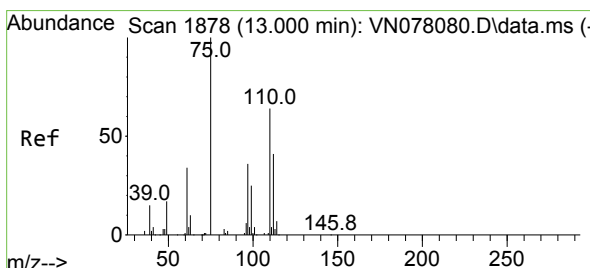
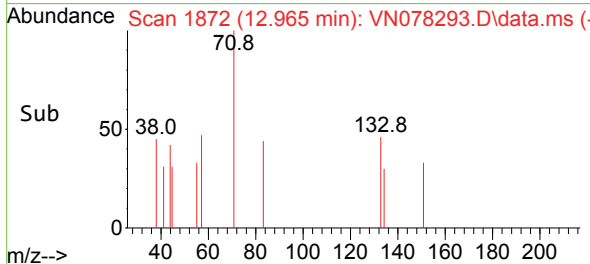
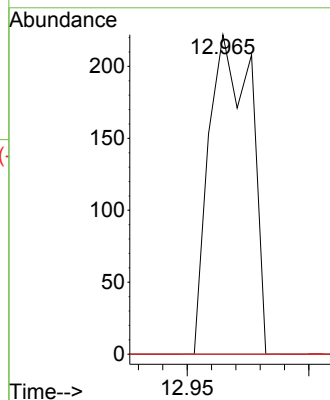
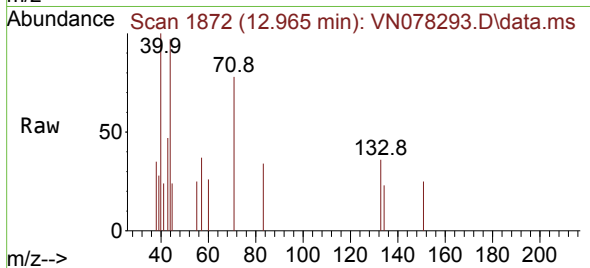
Tgt Ion: 83 Resp: 266

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 30.412 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078293.D

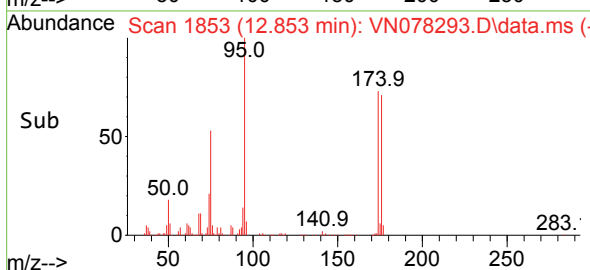
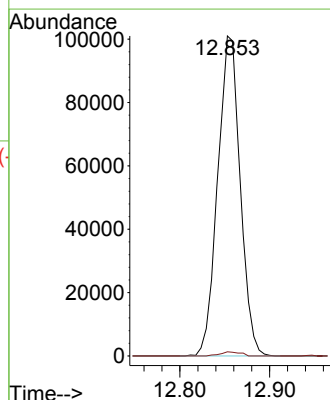
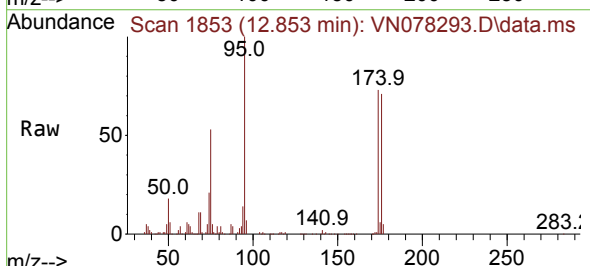
Acq: 19 Jun 2023 21:03

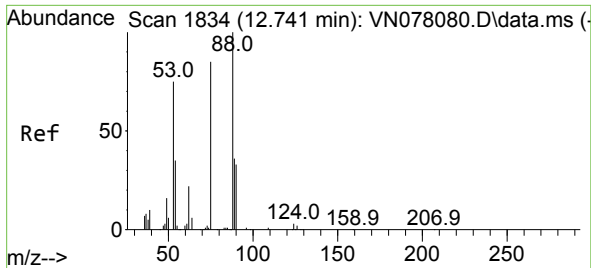
Tgt Ion: 75 Resp: 175870

Ion Ratio Lower Upper

75 100

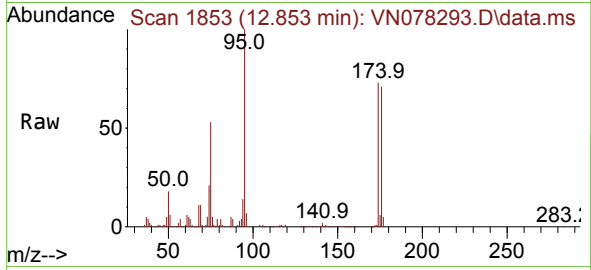
77 1.2 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 93.437 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078293.D
 Acq: 19 Jun 2023 21:03

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-14A



Tgt Ion: 75 Resp: 175870
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.1 38.8 58.2#

