

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078327.D
 Acq On : 21 Jun 2023 17:10
 Operator : JC\MD
 Sample : 03336-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-4

Quant Time: Jun 22 04:52:06 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)

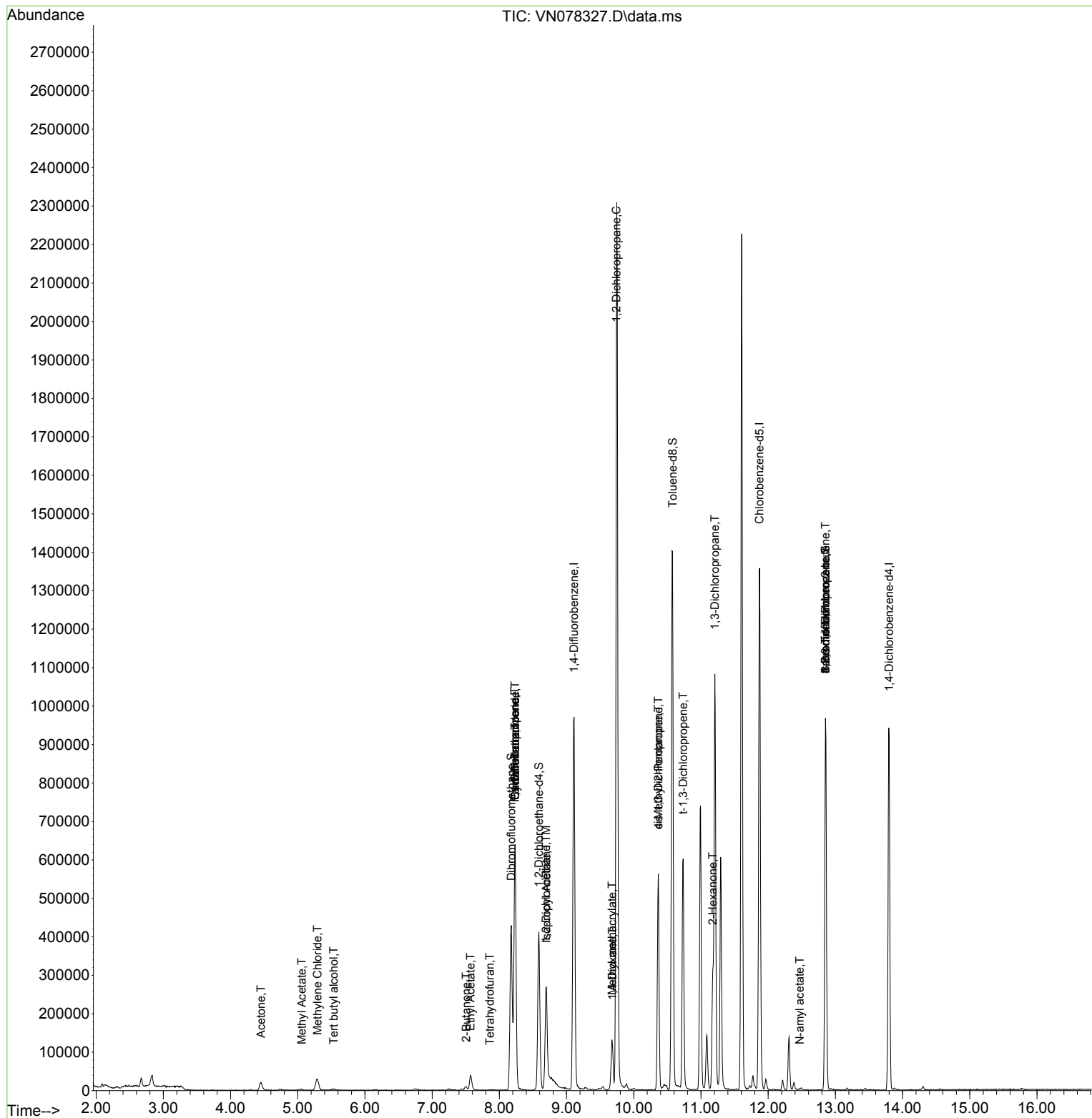
Internal Standards						
1) Pentafluorobenzene	8.229	168	459241	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	866972	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	814077	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	260720	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	327095	53.420	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.840%	
35) Dibromofluoromethane	8.177	113	303637	55.391	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 110.780%	
50) Toluene-d8	10.576	98	1040418	49.233	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 98.460%	
62) 4-Bromofluorobenzene	12.853	95	337943	51.440	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 102.880%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.383	50	990	Below Cal	#	87
11) Tert butyl alcohol	5.536	59	2138	2.529	ug/l #	88
16) Acetone	4.453	43	38811	22.021	ug/l	95
18) Methyl Acetate	5.059	43	4084	0.503	ug/l #	71
20) Methylene Chloride	5.294	84	23571	4.047	ug/l	92
25) 2-Butanone	7.506	43	14231	5.251	ug/l #	69
29) Tetrahydrofuran	7.859	42	751	0.414	ug/l #	38
31) Cyclohexane	8.235	56	11157	1.420	ug/l #	41
36) 1,1-Dichloropropene	8.229	75	37723	4.798	ug/l #	48
37) Ethyl Acetate	7.571	43	57650	9.385	ug/l #	94
38) Carbon Tetrachloride	8.235	117	47405	5.710	ug/l #	16
42) 1,2-Dichloroethane	8.694	62	2118	0.263	ug/l #	73
43) Isopropyl Acetate	8.700	43	317043	26.989	ug/l #	80
45) 1,2-Dichloropropane	9.741	63	2938	0.503	ug/l #	45
48) Methyl methacrylate	9.676	41	8342	1.692	ug/l #	32
49) 1,4-Dioxane	9.682	88	180	1.737	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	196123	31.704	ug/l #	41
53) t-1,3-Dichloropropene	10.735	75	1879	0.226	ug/l #	52
54) cis-1,3-Dichloropropene	10.365	75	104074	11.313	ug/l #	68
57) 1,3-Dichloropropane	11.206	76	11036	1.166	ug/l #	43
59) 2-Hexanone	11.176	43	233511	54.213	ug/l #	19
71) Bromoform	12.853	173	2561	0.619	ug/l #	1
74) N-amyl acetate	12.470	43	1824	0.225	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.912	83	102	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	181416	29.434	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	181416	90.430	ug/l #	15
94) Hexachlorobutadiene	15.506	225	60	Below Cal	#	19

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.229 min Scan# 1

Delta R.T. -0.005 min

Lab File: VN078327.D

Acq: 21 Jun 2023 17:10

Instrument :

MSVOA_N

ClientSampleId :

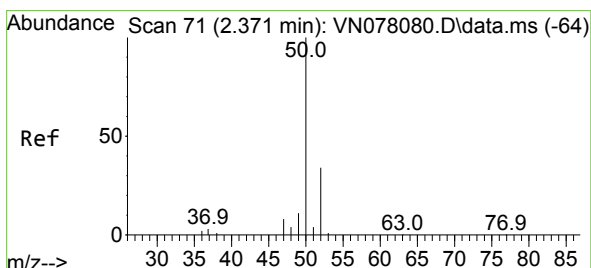
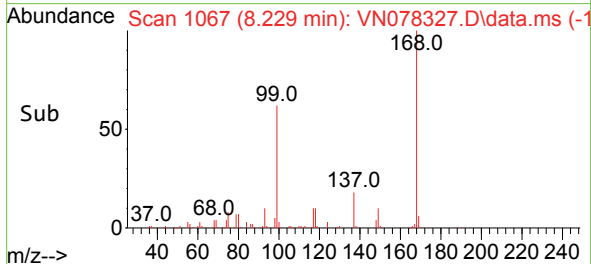
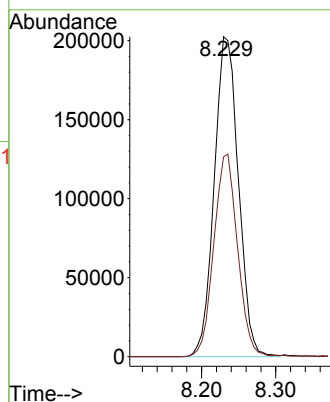
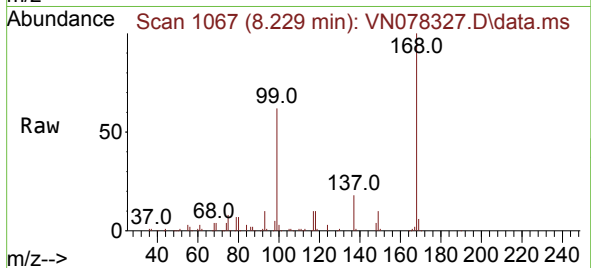
WC-4

Tgt Ion:168 Resp: 459241

Ion Ratio Lower Upper

168 100

99 62.5 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.383 min Scan# 73

Delta R.T. 0.012 min

Lab File: VN078327.D

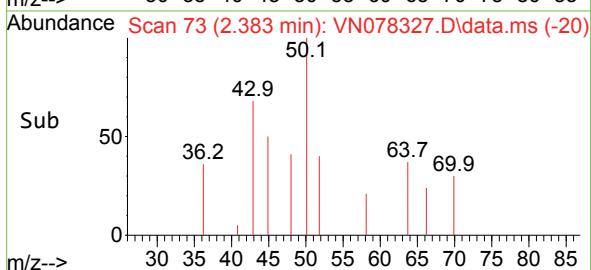
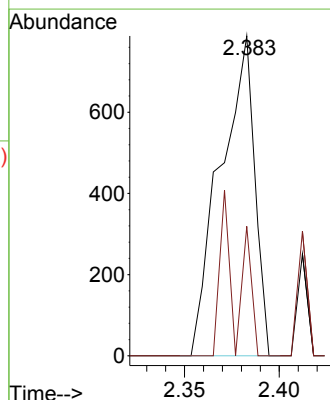
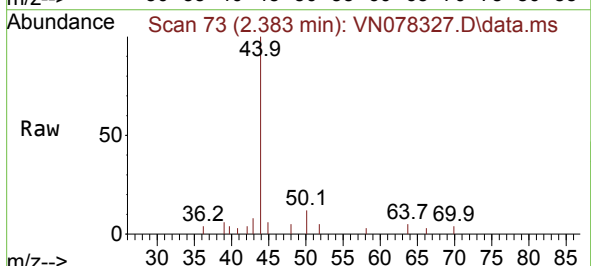
Acq: 21 Jun 2023 17:10

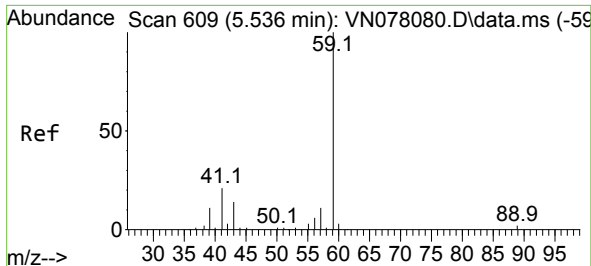
Tgt Ion: 50 Resp: 990

Ion Ratio Lower Upper

50 100

52 40.5 26.5 39.7#

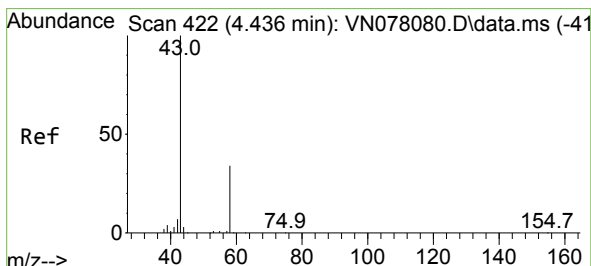
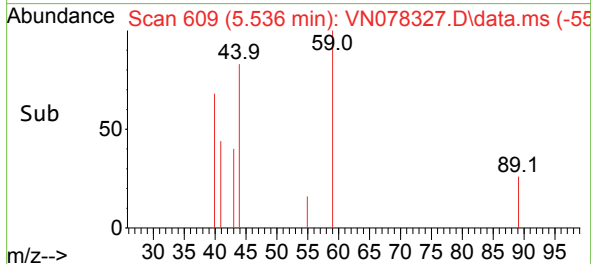
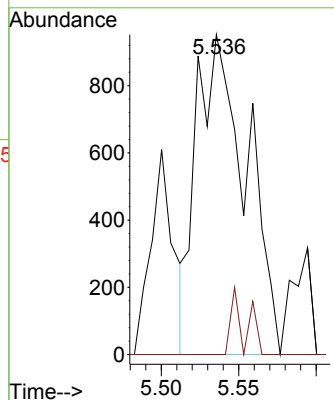
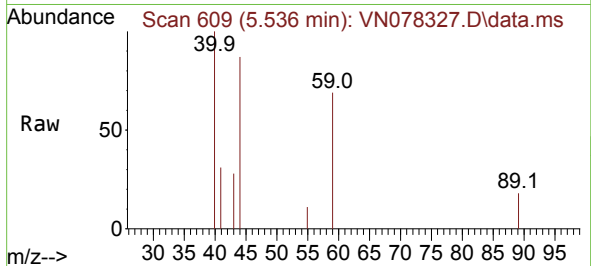




#11
Tert butyl alcohol
Concen: 2.529 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.000 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

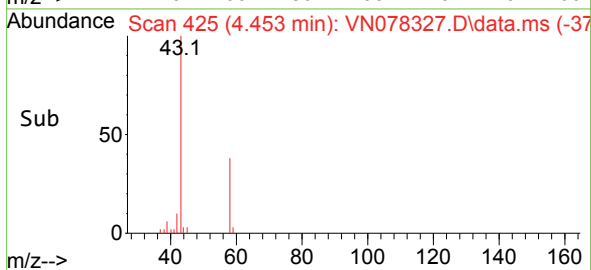
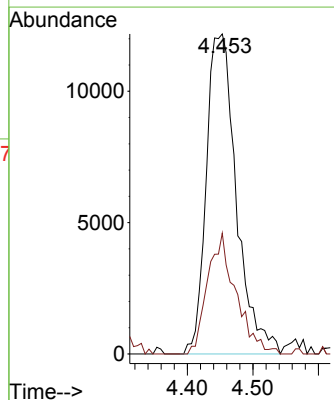
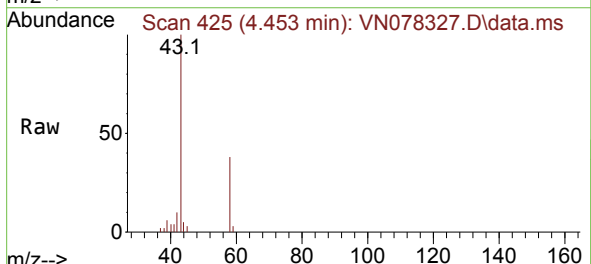
Instrument :
MSVOA_N
ClientSampleId :
WC-4

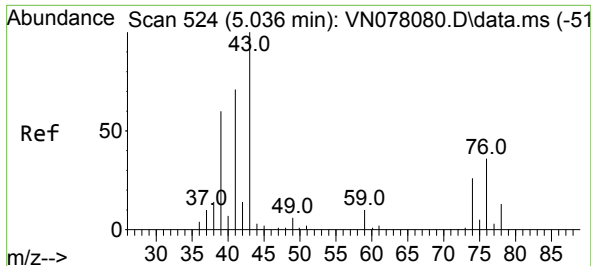
Tgt Ion: 59 Resp: 2138
Ion Ratio Lower Upper
59 100
57 5.9 8.2 12.4#



#16
Acetone
Concen: 22.021 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.018 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

Tgt Ion: 43 Resp: 38811
Ion Ratio Lower Upper
43 100
58 37.7 28.0 42.0

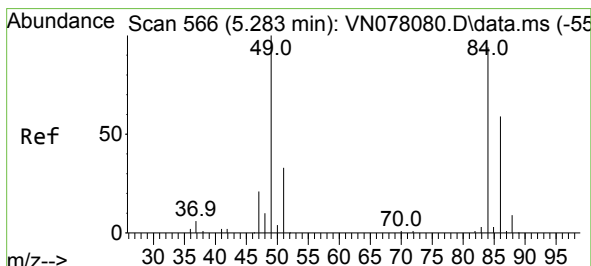
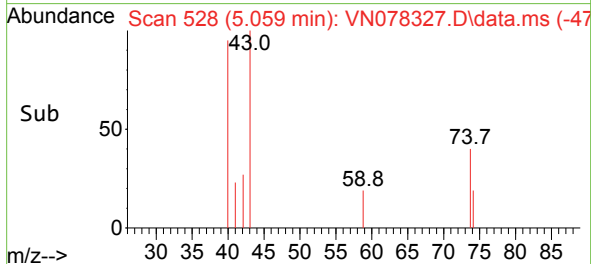
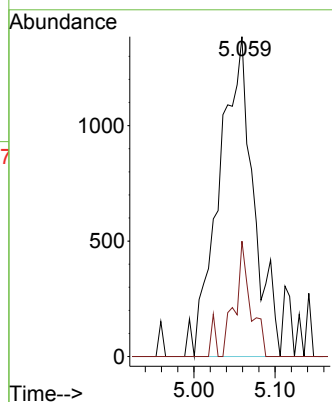
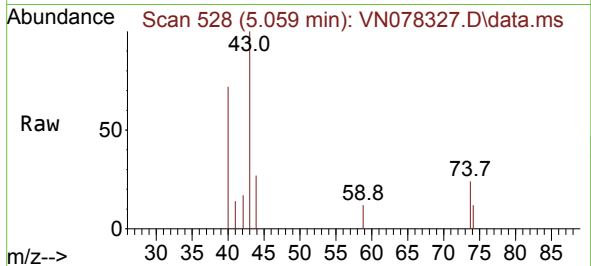




#18
Methyl Acetate
Concen: 0.503 ug/l
RT: 5.059 min Scan# 51
Delta R.T. 0.024 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

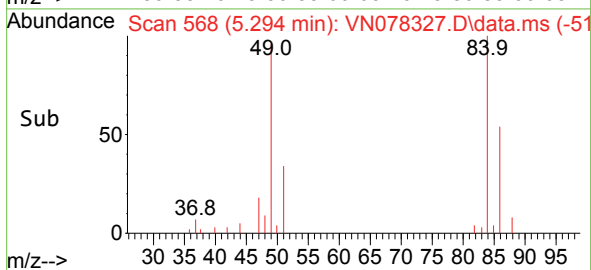
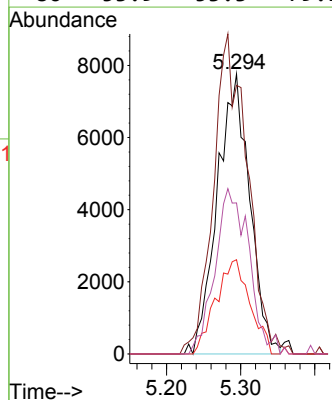
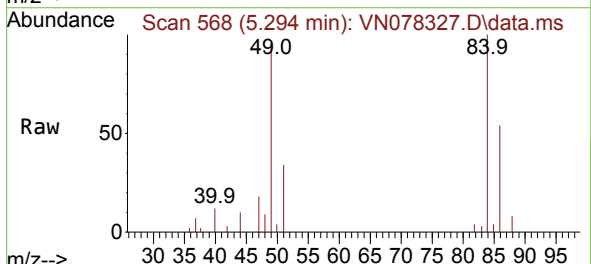
Instrument :
MSVOA_N
ClientSampleId :
WC-4

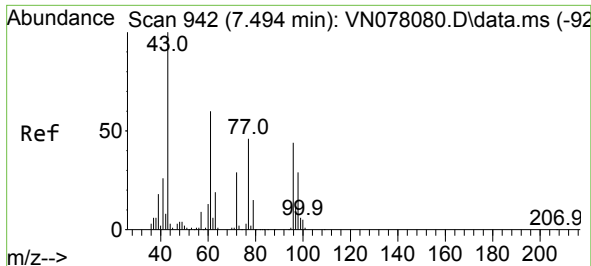
Tgt Ion: 43 Resp: 4084
Ion Ratio Lower Upper
43 100
74 16.3 26.2 39.4#



#20
Methylene Chloride
Concen: 4.047 ug/l
RT: 5.294 min Scan# 568
Delta R.T. 0.012 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

Tgt Ion: 84 Resp: 23571
Ion Ratio Lower Upper
84 100
49 96.0 79.7 119.5
51 33.6 25.2 37.8
86 53.9 53.3 79.9

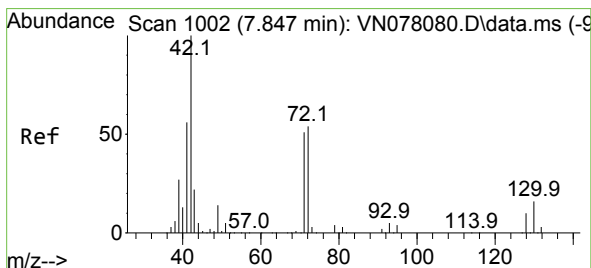
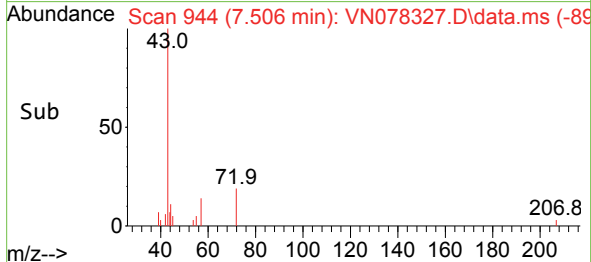
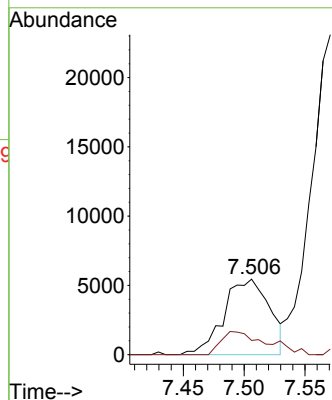
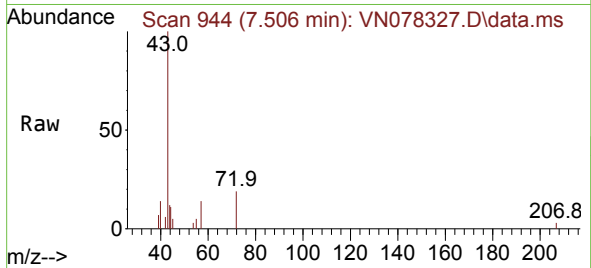




#25
2-Butanone
Concen: 5.251 ug/l
RT: 7.506 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

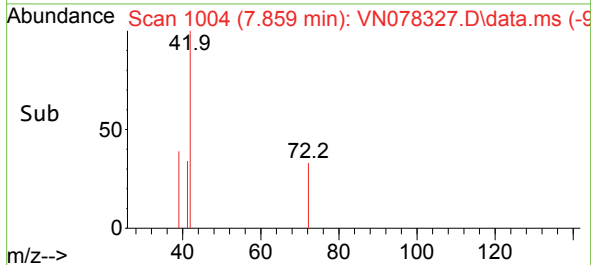
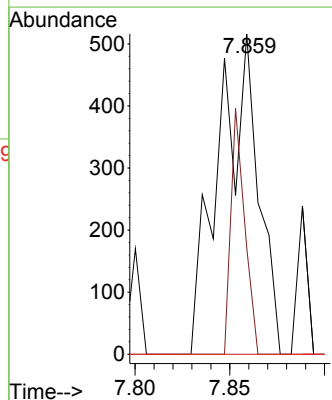
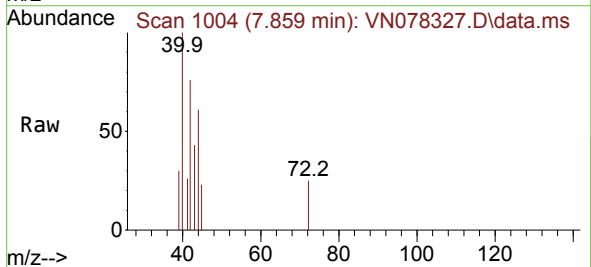
Instrument :
MSVOA_N
ClientSampleId :
WC-4

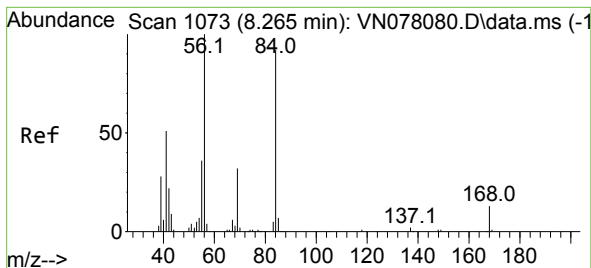
Tgt Ion: 43 Resp: 14231
Ion Ratio Lower Upper
43 100
72 18.9 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.414 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.012 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

Tgt Ion: 42 Resp: 751
Ion Ratio Lower Upper
42 100
72 26.6 49.8 74.6#
71 0.0 47.4 71.2#





#31

Cyclohexane

Concen: 1.420 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.029 min

Lab File: VN078327.D

Acq: 21 Jun 2023 17:10

Instrument :

MSVOA_N

ClientSampleId :

WC-4

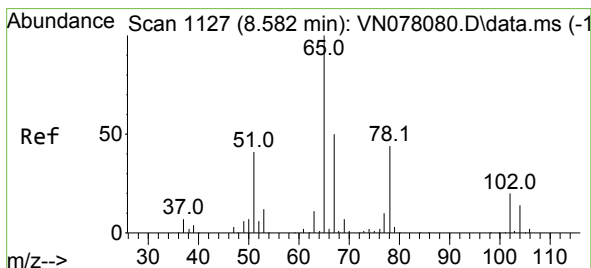
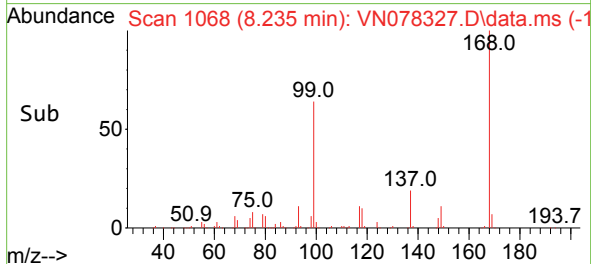
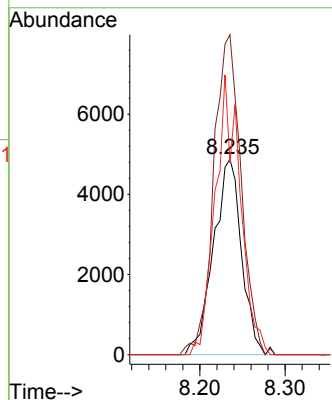
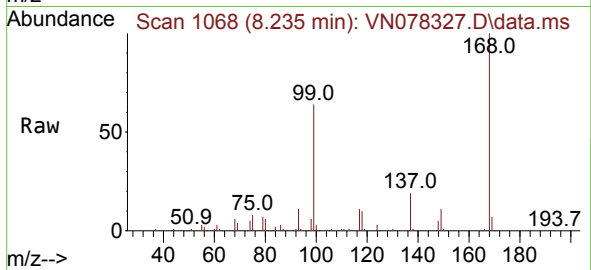
Tgt Ion: 56 Resp: 11157

Ion Ratio Lower Upper

56 100

69 163.6 26.8 40.2#

84 98.2 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 53.420 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN078327.D

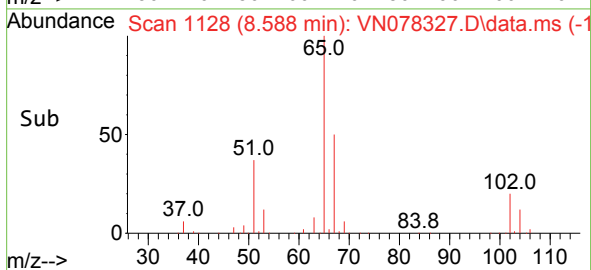
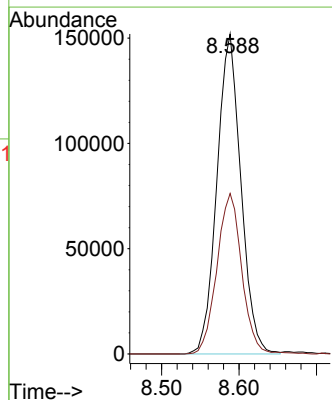
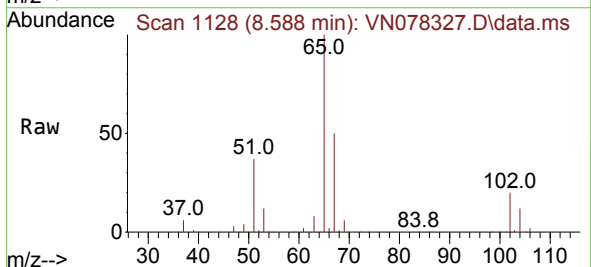
Acq: 21 Jun 2023 17:10

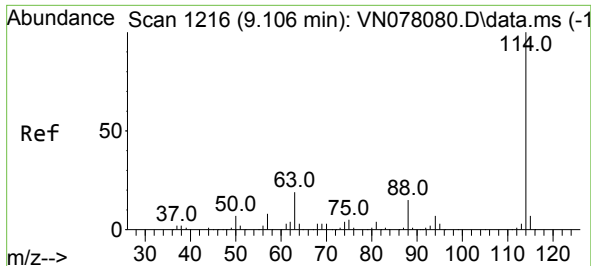
Tgt Ion: 65 Resp: 327095

Ion Ratio Lower Upper

65 100

67 52.1 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078327.D

Acq: 21 Jun 2023 17:10

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MSVOA_N

ClientSampleId :

WC-4

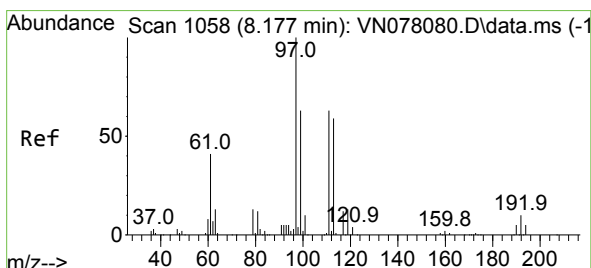
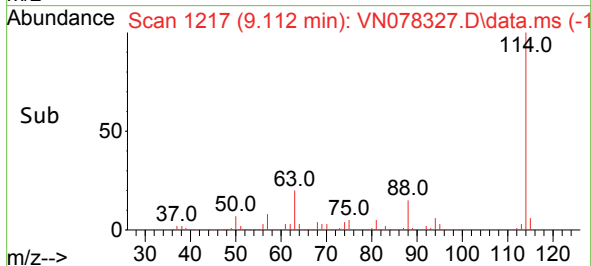
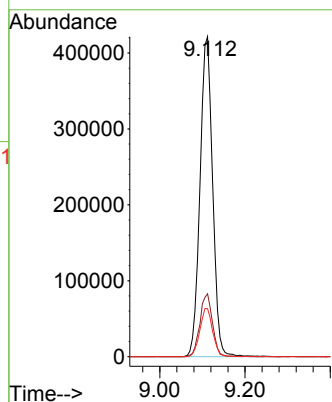
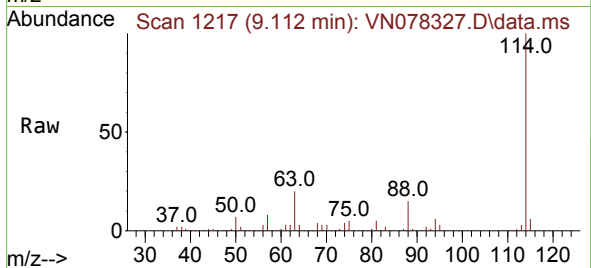
Tgt Ion:114 Resp: 866972

Ion Ratio Lower Upper

114 100

63 19.6 0.0 36.4

88 15.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 55.391 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN078327.D

Acq: 21 Jun 2023 17:10

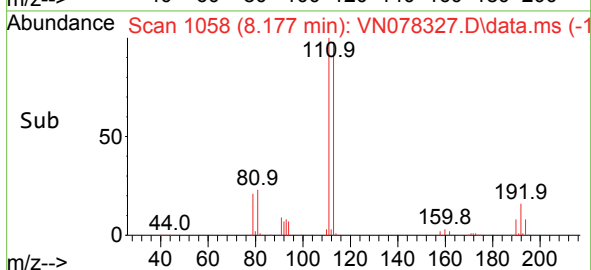
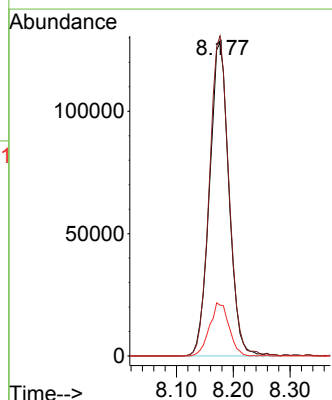
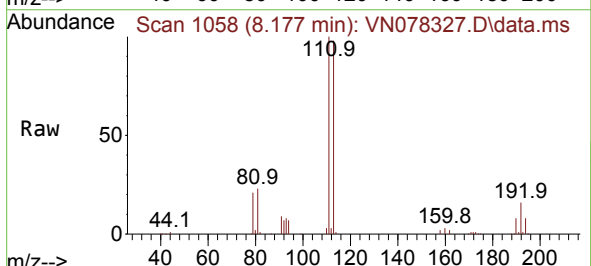
Tgt Ion:113 Resp: 303637

Ion Ratio Lower Upper

113 100

111 102.5 82.6 123.8

192 17.0 12.7 19.1

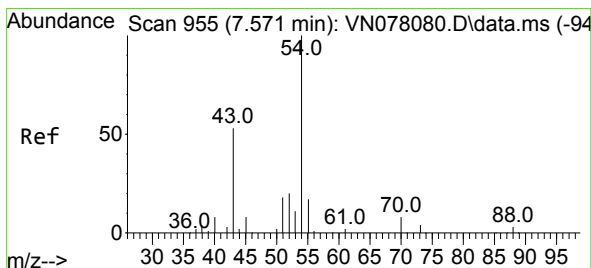
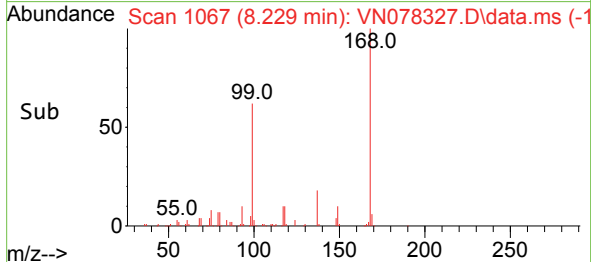
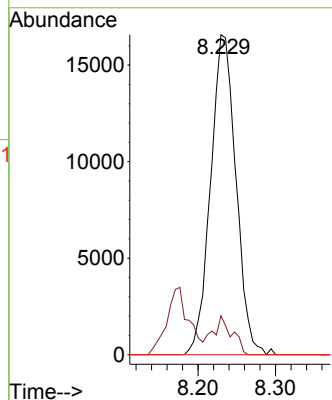
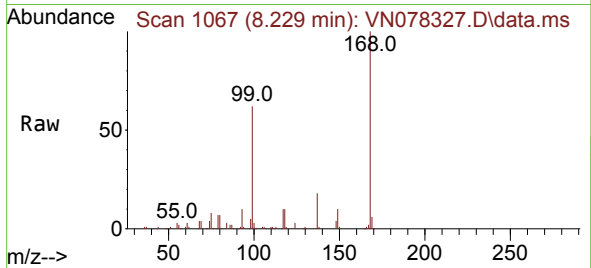




#36
1,1-Dichloropropene
Concen: 4.798 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

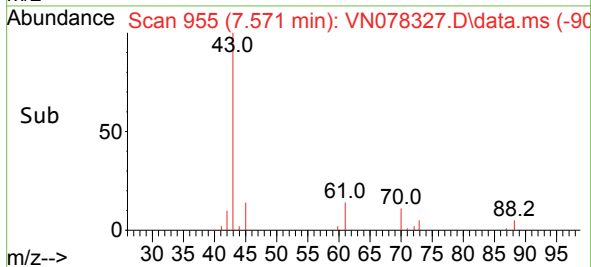
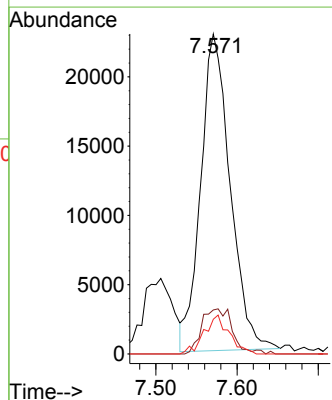
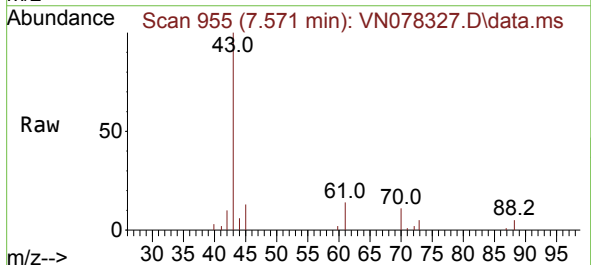
Instrument :
MSVOA_N
ClientSampleId :
WC-4

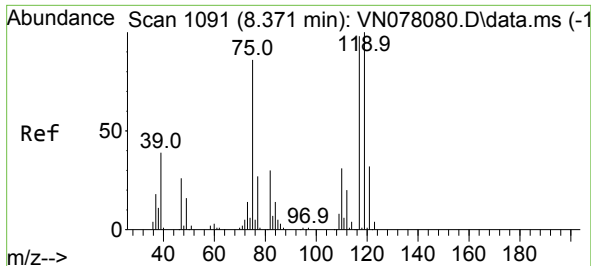
Tgt Ion: 75 Resp: 37723
Ion Ratio Lower Upper
75 100
110 9.3 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 9.385 ug/l
RT: 7.571 min Scan# 955
Delta R.T. -0.000 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

Tgt Ion: 43 Resp: 57650
Ion Ratio Lower Upper
43 100
61 14.9 13.2 19.8
70 10.4 11.3 16.9#

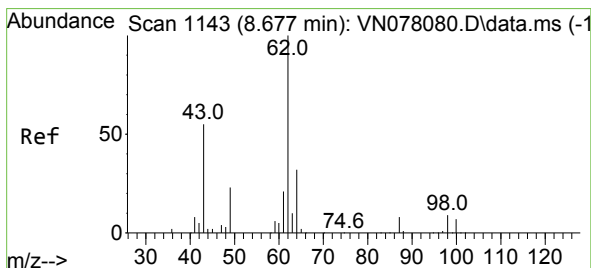
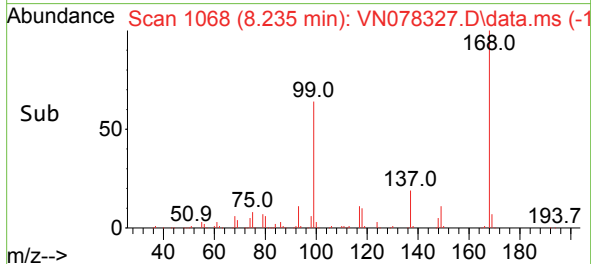
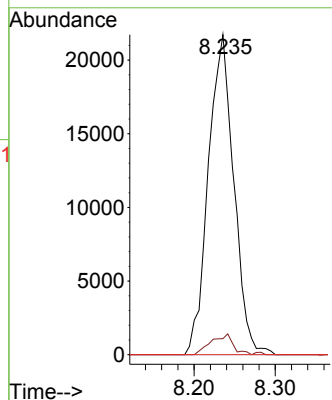
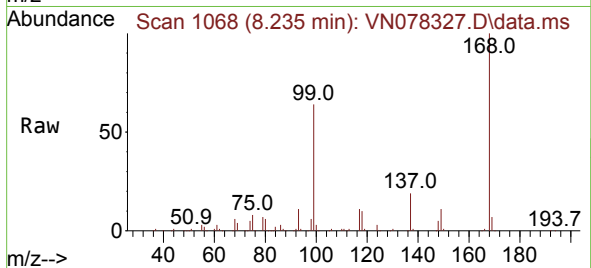




#38
Carbon Tetrachloride
Concen: 5.710 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

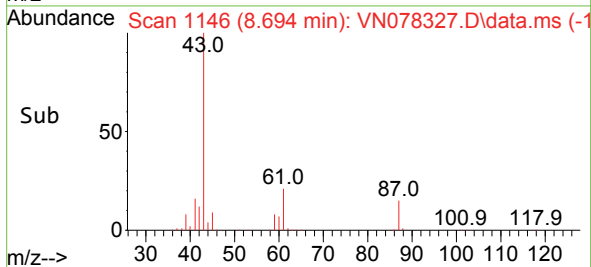
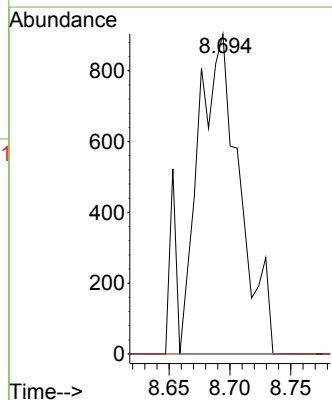
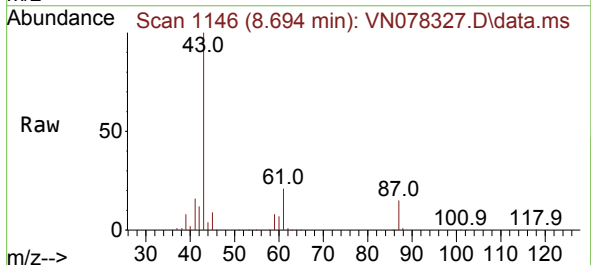
Instrument :
MSVOA_N
ClientSampleId :
WC-4

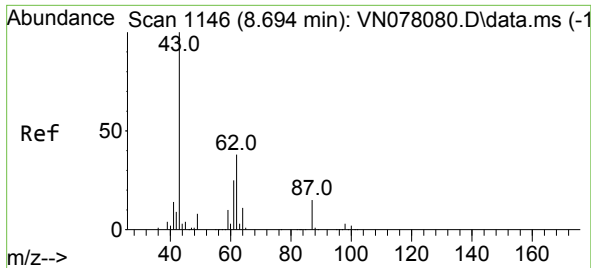
Tgt Ion:117 Resp: 47405
Ion Ratio Lower Upper
117 100
119 5.0 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.263 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.018 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

Tgt Ion: 62 Resp: 2118
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

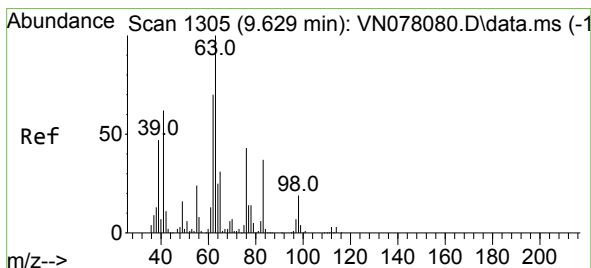
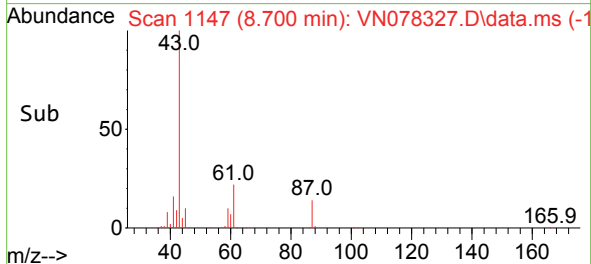
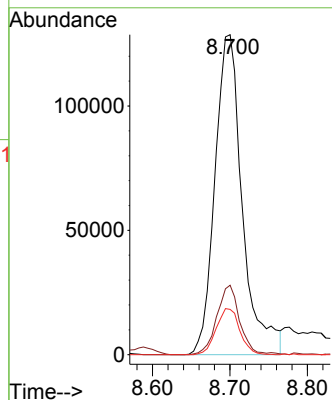
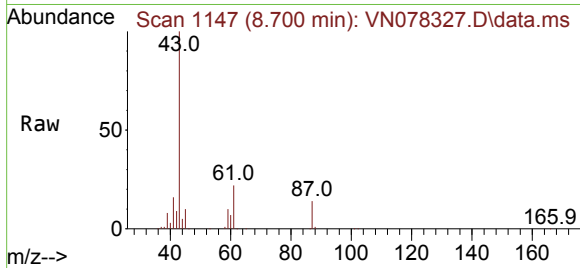




#43
Isopropyl Acetate
Concen: 26.989 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

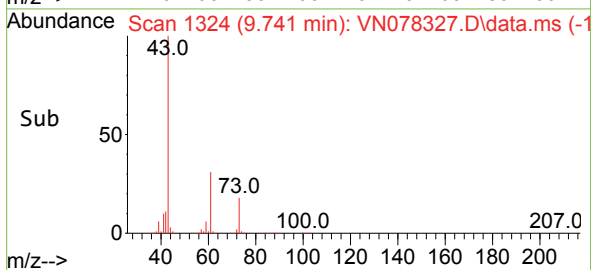
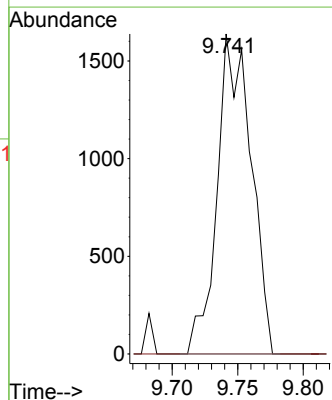
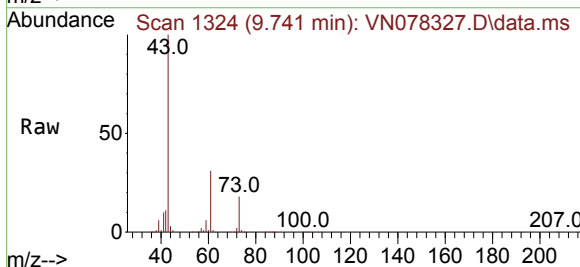
Instrument :
MSVOA_N
ClientSampleId :
WC-4

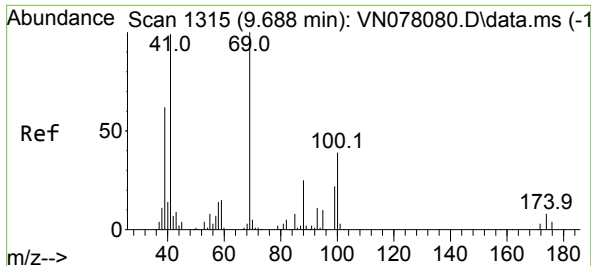
Tgt Ion: 43 Resp: 317043
Ion Ratio Lower Upper
43 100
61 18.1 24.7 37.1#
87 12.4 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.503 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.112 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

Tgt Ion: 63 Resp: 2938
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

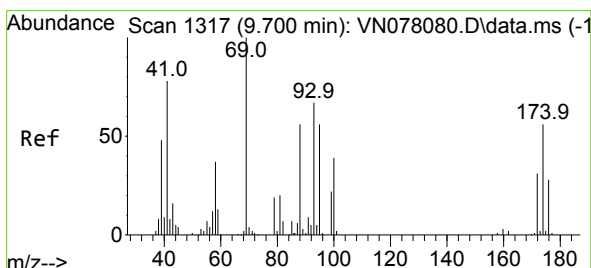
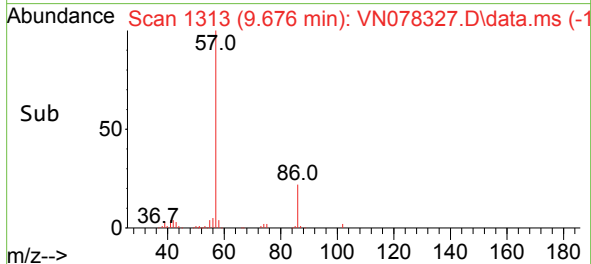
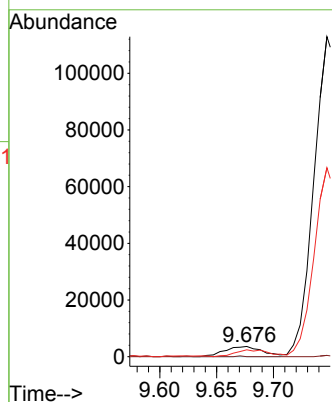
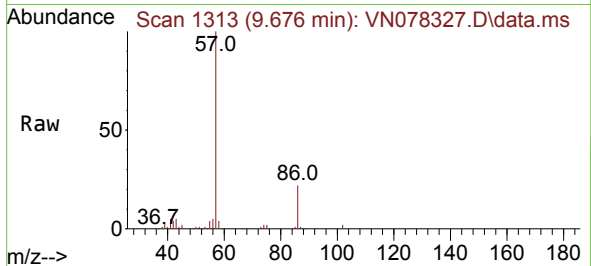




#48
Methyl methacrylate
Concen: 1.692 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.012 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

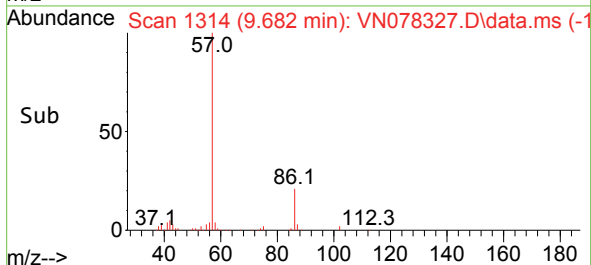
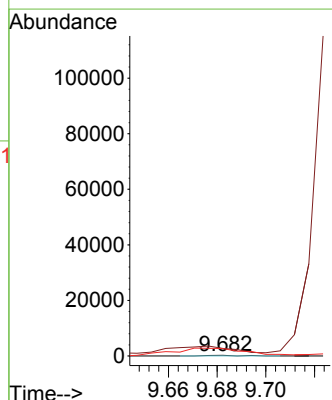
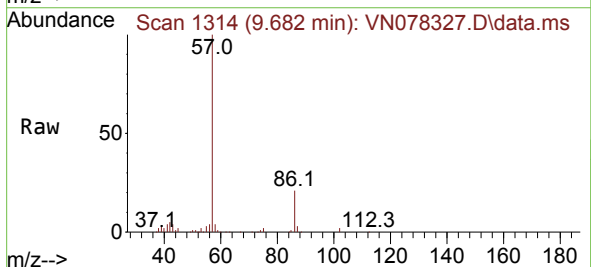
Instrument :
MSVOA_N
ClientSampleId :
WC-4

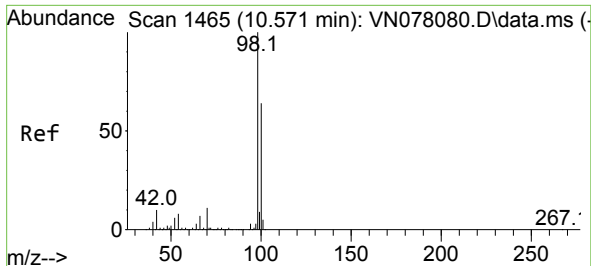
Tgt Ion: 41 Resp: 8342
Ion Ratio Lower Upper
41 100
69 1.1 90.4 135.6#
39 61.4 54.6 81.8



#49
1,4-Dioxane
Concen: 1.737 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.018 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

Tgt Ion: 88 Resp: 180
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 3389.4 47.0 70.4#

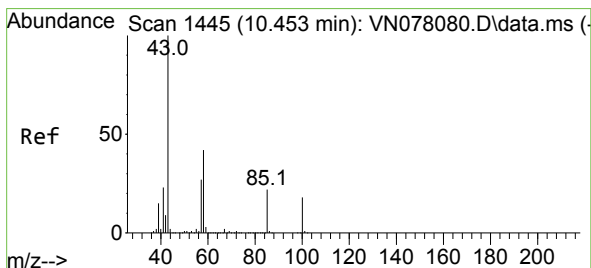
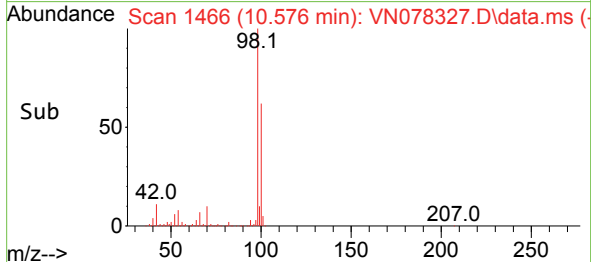
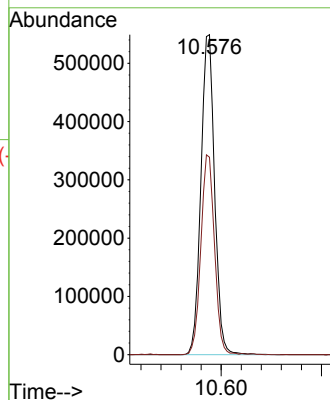
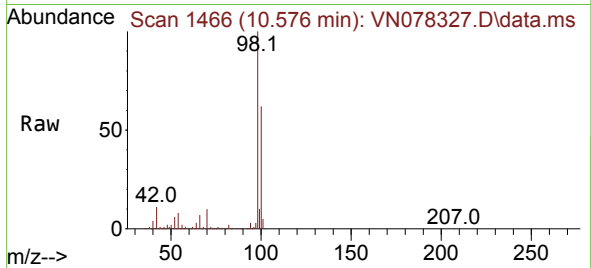




#50
Toluene-d8
Concen: 49.233 ug/l
RT: 10.576 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

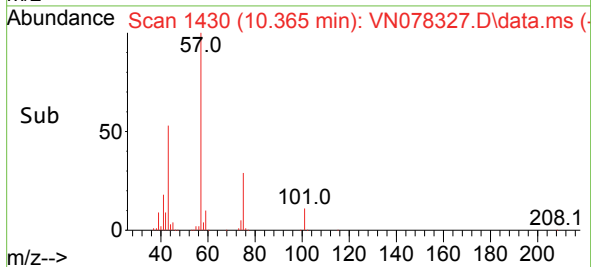
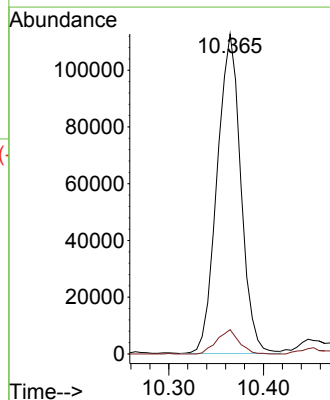
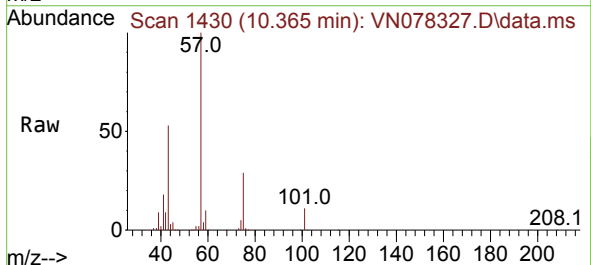
Instrument :
MSVOA_N
ClientSampleId :
WC-4

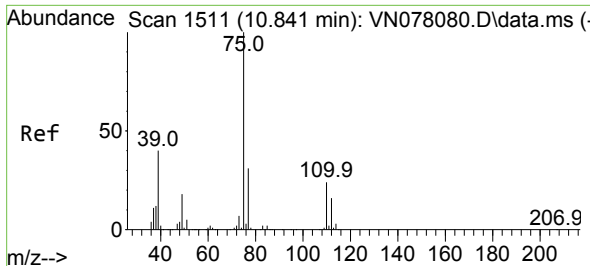
Tgt Ion: 98 Resp: 1040418
Ion Ratio Lower Upper
98 100
100 62.3 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 31.704 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.088 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

Tgt Ion: 43 Resp: 196123
Ion Ratio Lower Upper
43 100
58 7.1 36.6 54.8#

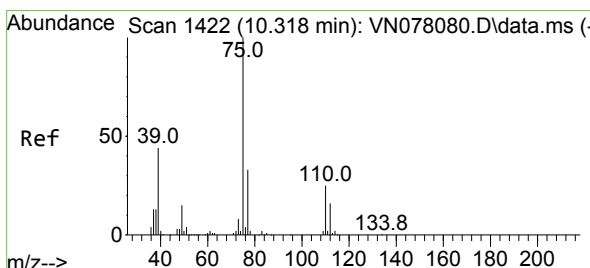
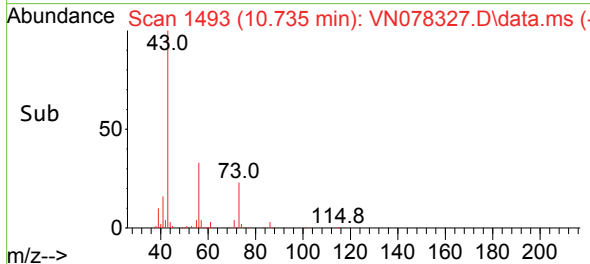
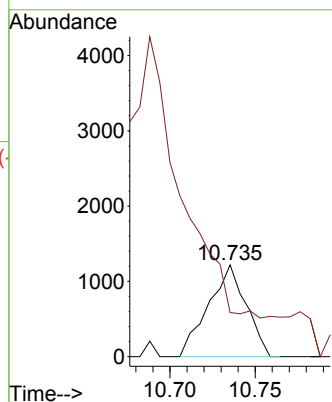
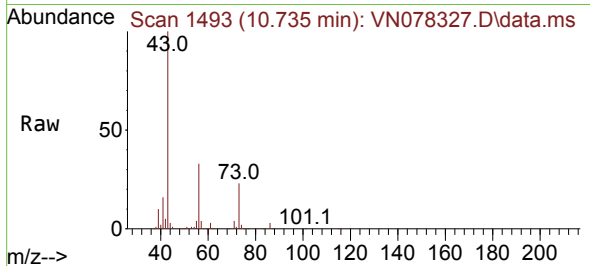




#53
 t-1,3-Dichloropropene
 Concen: 0.226 ug/l
 RT: 10.735 min Scan# 1493
 Delta R.T. -0.106 min
 Lab File: VN078327.D
 Acq: 21 Jun 2023 17:10

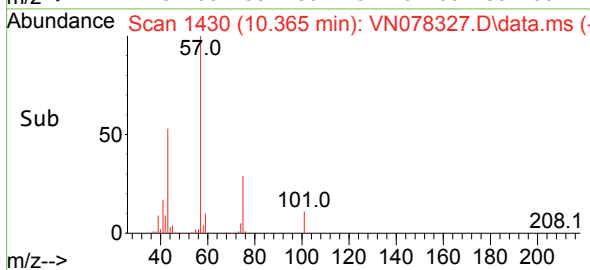
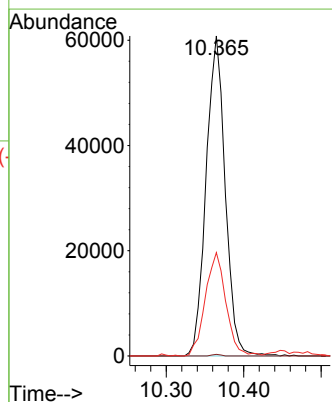
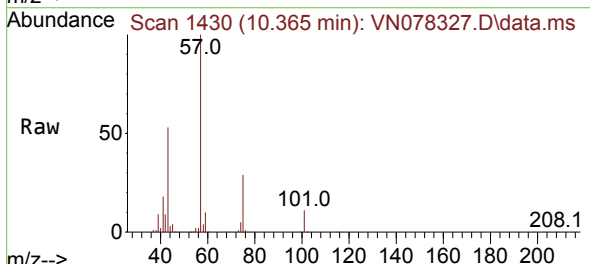
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-4

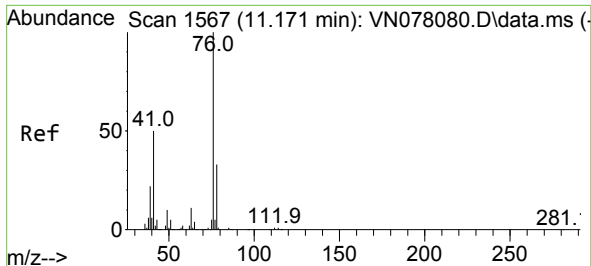
Tgt Ion: 75 Resp: 1879
 Ion Ratio Lower Upper
 75 100
 77 5.1 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 11.313 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN078327.D
 Acq: 21 Jun 2023 17:10

Tgt Ion: 75 Resp: 104074
 Ion Ratio Lower Upper
 75 100
 77 0.5 26.1 39.1#
 39 32.3 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.166 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN078327.D

Acq: 21 Jun 2023 17:10

Instrument :

MSVOA_N

ClientSampleId :

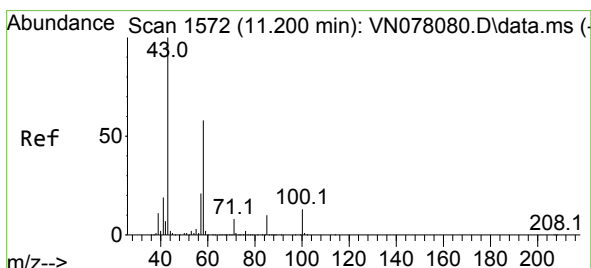
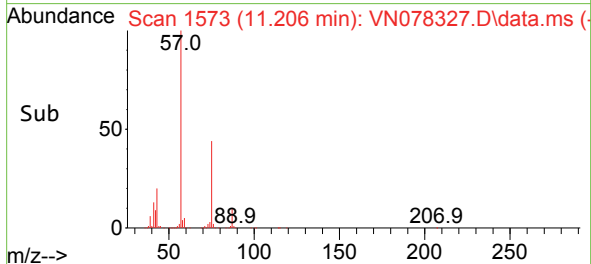
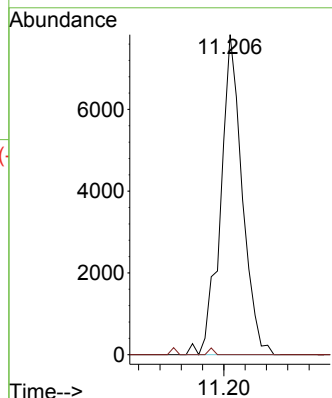
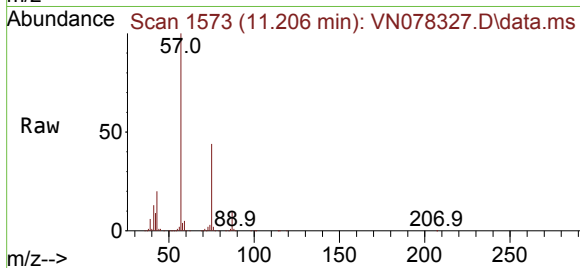
WC-4

Tgt Ion: 76 Resp: 11036

Ion Ratio Lower Upper

76 100

78 0.5 26.1 39.1#



#59

2-Hexanone

Concen: 54.213 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078327.D

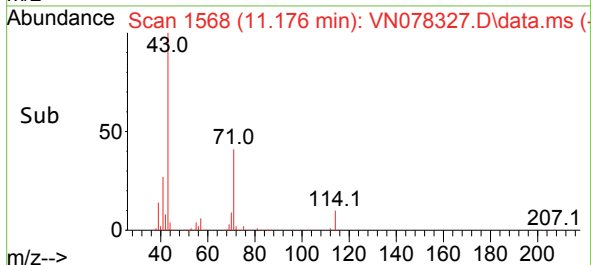
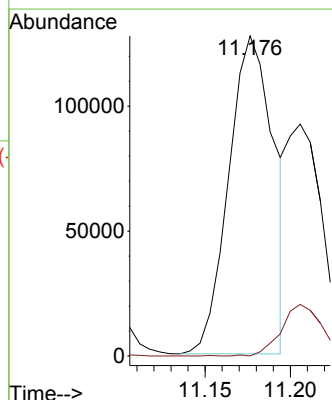
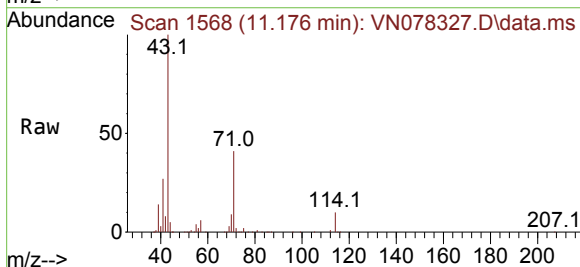
Acq: 21 Jun 2023 17:10

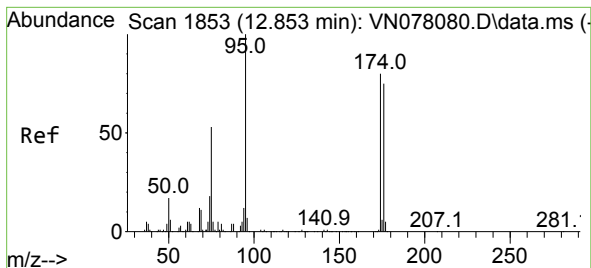
Tgt Ion: 43 Resp: 233511

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

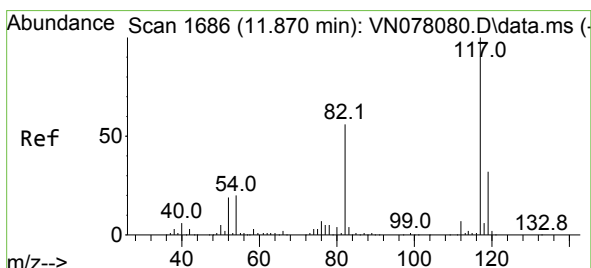
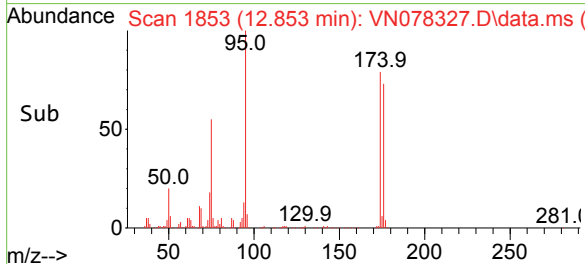
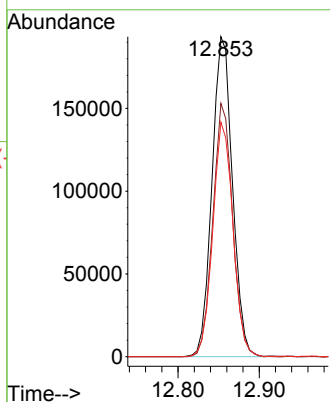
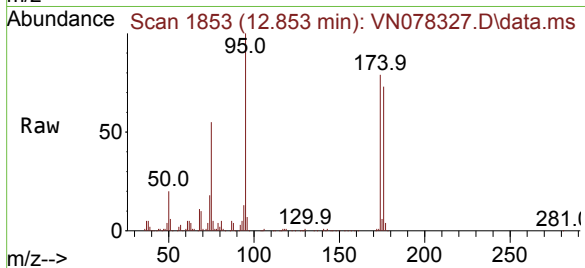




#62
4-Bromofluorobenzene
Concen: 51.440 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

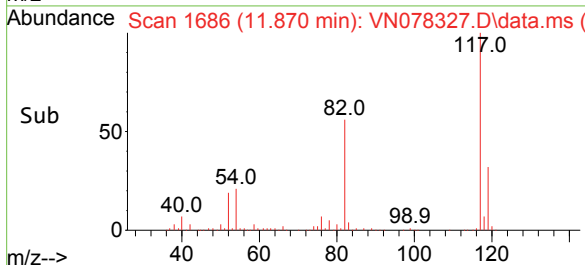
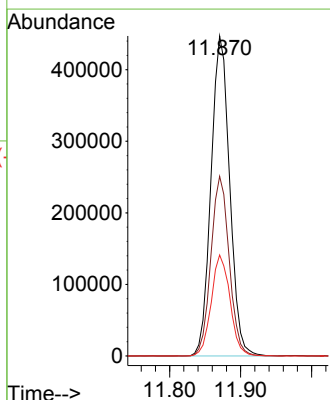
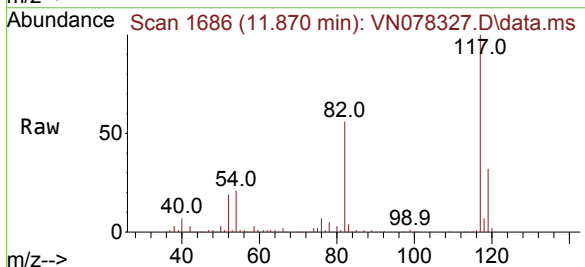
Instrument :
MSVOA_N
ClientSampleId :
WC-4

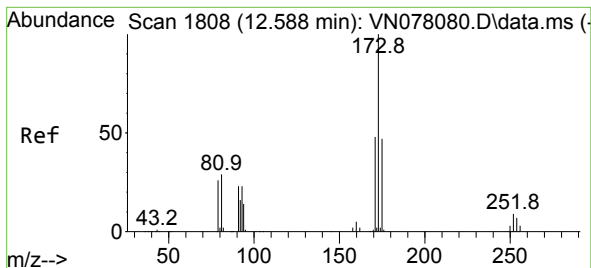
Tgt Ion: 95 Resp: 337943
Ion Ratio Lower Upper
95 100
174 76.9 0.0 143.8
176 72.5 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

Tgt Ion: 117 Resp: 814077
Ion Ratio Lower Upper
117 100
82 56.1 44.0 66.0
119 31.6 25.6 38.4





#71

Bromoform

Concen: 0.619 ug/l

RT: 12.853 min Scan# 1808

Delta R.T. 0.265 min

Lab File: VN078327.D

Acq: 21 Jun 2023 17:10

Instrument :

MSVOA_N

ClientSampleId :

WC-4

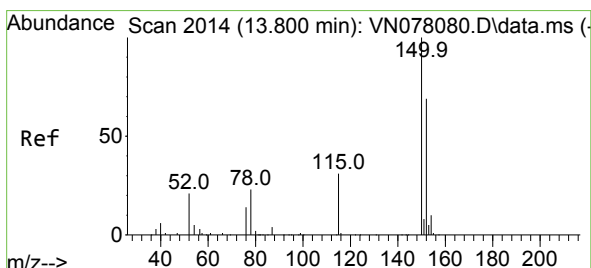
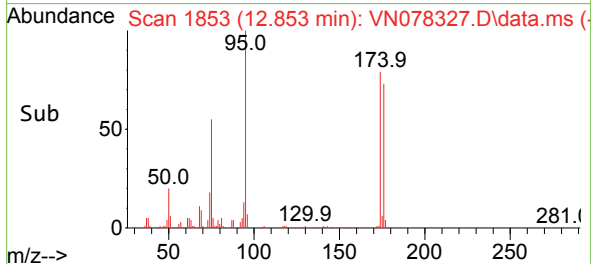
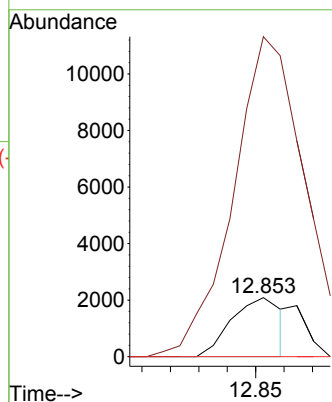
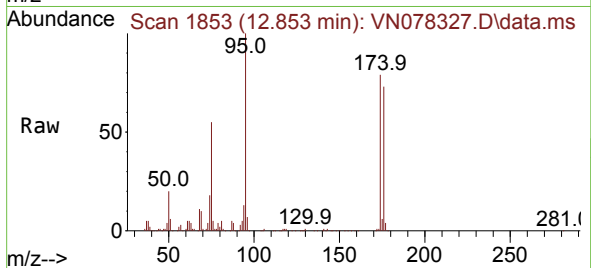
Tgt Ion:173 Resp: 2561

Ion Ratio Lower Upper

173 100

175 660.2 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. -0.000 min

Lab File: VN078327.D

Acq: 21 Jun 2023 17:10

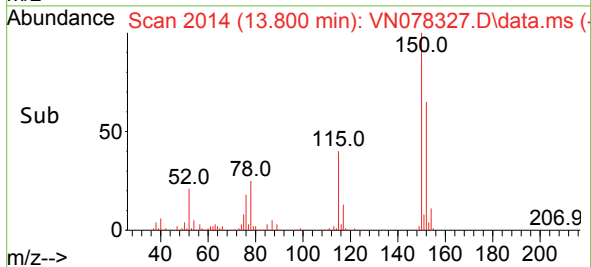
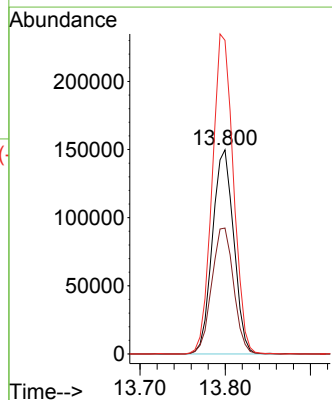
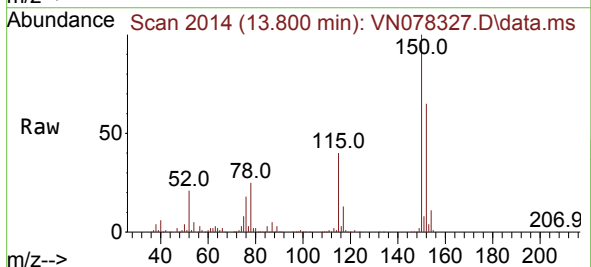
Tgt Ion:152 Resp: 260720

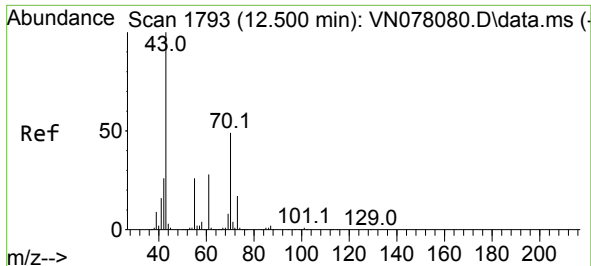
Ion Ratio Lower Upper

152 100

115 63.2 32.3 96.8

150 155.7 0.0 355.8

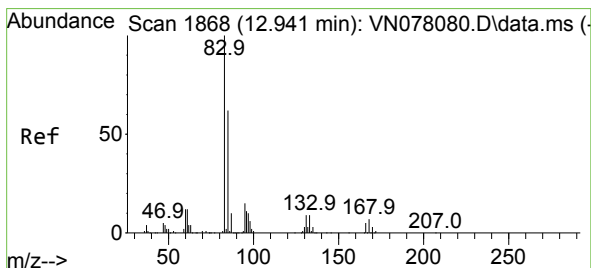
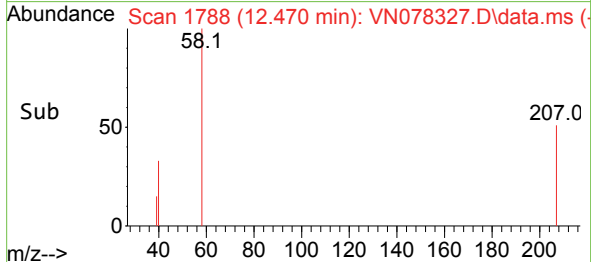
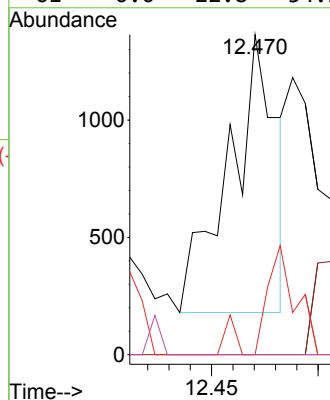
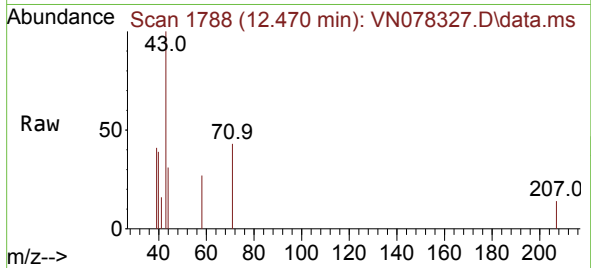




#74
N-amy1 acetate
Concen: 0.225 ug/l
RT: 12.470 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

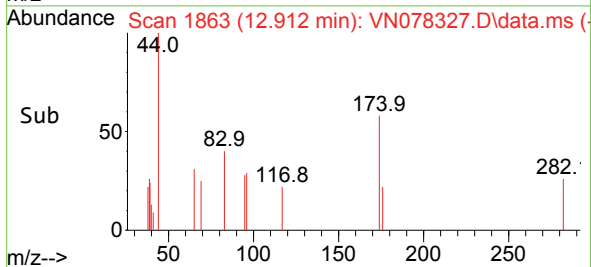
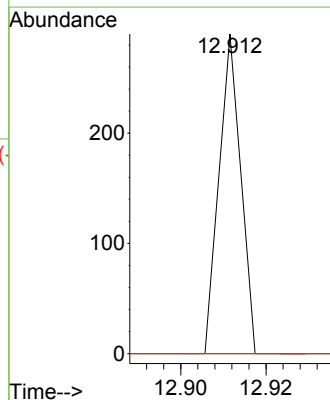
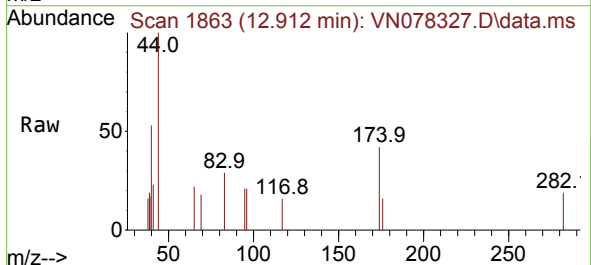
Instrument :
MSVOA_N
ClientSampleId :
WC-4

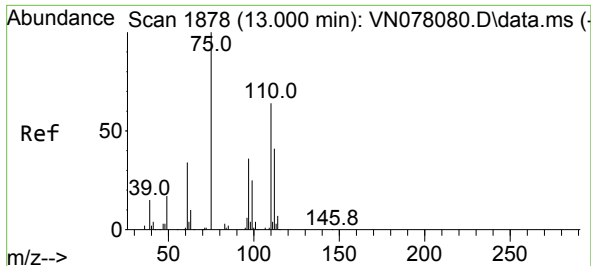
Tgt Ion: 43	Resp: 1824
Ion Ratio	Lower Upper
43 100	
70 0.0	43.4 65.2#
55 23.0	21.4 32.0
61 0.0	22.8 34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.912 min Scan# 1863
Delta R.T. -0.029 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

Tgt Ion: 83	Resp: 102
Ion Ratio	Lower Upper
83 100	
131 0.0	5.0 15.0#
85 0.0	31.9 95.7#

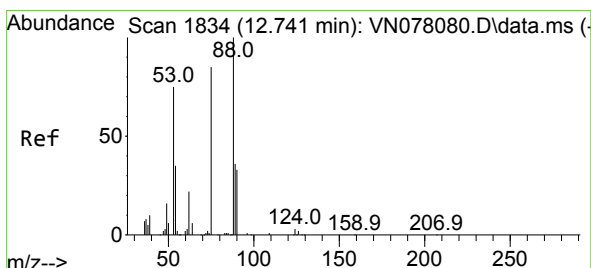
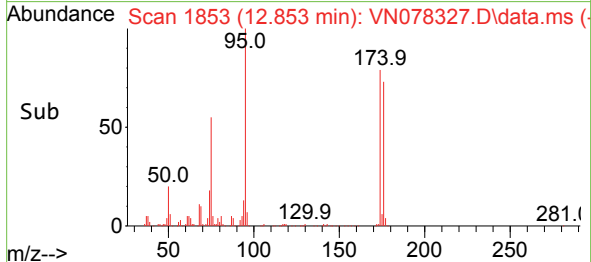
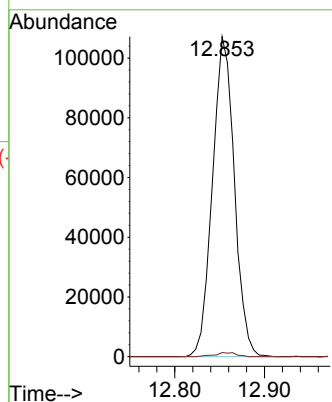
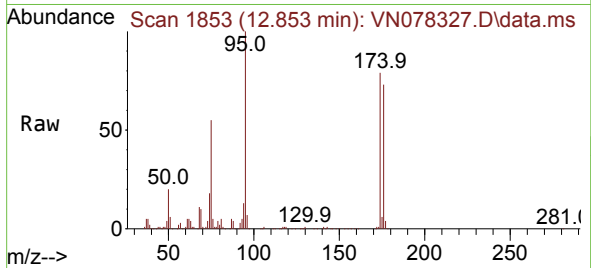




#76
1,2,3-Trichloropropane
Concen: 29.434 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

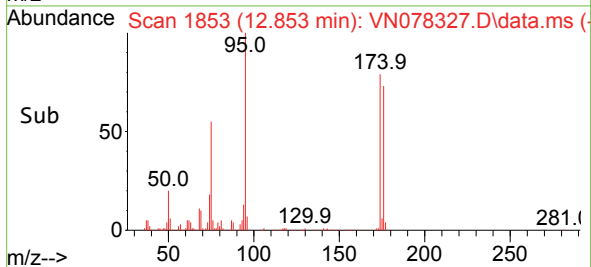
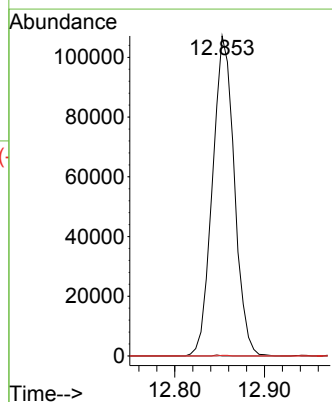
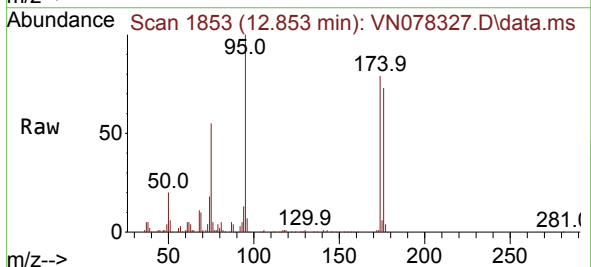
Instrument :
MSVOA_N
ClientSampleId :
WC-4

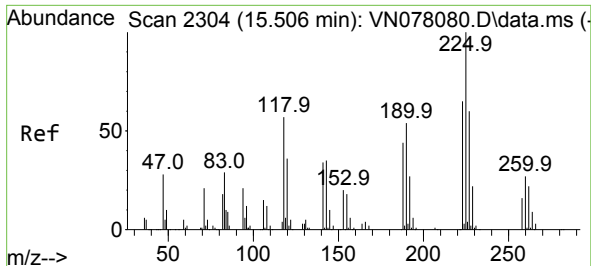
Tgt Ion: 75 Resp: 181416
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 90.430 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078327.D
Acq: 21 Jun 2023 17:10

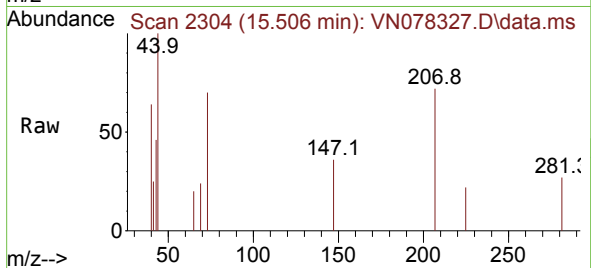
Tgt Ion: 75 Resp: 181416
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.1 38.8 58.2#





#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.506 min Scan# 21
 Delta R.T. -0.001 min
 Lab File: VN078327.D
 Acq: 21 Jun 2023 17:10

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-4



Tgt Ion:	225	Resp:	60
Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.3	93.8#
227	0.0	31.9	95.9#

