

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090223\
 Data File : VN079150.D
 Acq On : 02 Sep 2023 17:59
 Operator : JC\MD
 Sample : 04256-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

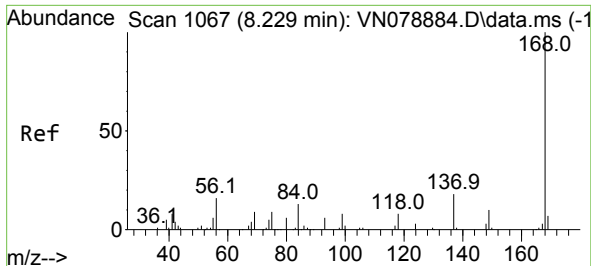
Quant Time: Sep 04 01:07:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	247568	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	472459	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	438554	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	107451	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	184469	47.885	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.760%
35) Dibromofluoromethane	8.171	113	163805	51.505	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.020%
50) Toluene-d8	10.571	98	573200	48.540	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.080%
62) 4-Bromofluorobenzene	12.853	95	173283	44.894	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	89.780%
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.977	74	1312	0.676	ug/l	65
11) Tert butyl alcohol	5.524	59	403	0.623	ug/l #	72
16) Acetone	4.436	43	29530	18.578	ug/l	94
18) Methyl Acetate	5.036	43	6606	0.984	ug/l #	70
20) Methylene Chloride	5.289	84	19927	5.883	ug/l #	83
25) 2-Butanone	7.500	43	8381	3.289	ug/l #	79
29) Tetrahydrofuran	7.865	42	483	0.286	ug/l #	20
31) Cyclohexane	8.224	56	5094	Below Cal	#	5
36) 1,1-Dichloropropene	8.230	75	20611	4.308	ug/l #	48
37) Ethyl Acetate	7.571	43	4374	0.817	ug/l #	71
38) Carbon Tetrachloride	8.230	117	25538	5.328	ug/l #	16
42) 1,2-Dichloroethane	8.694	62	1212	0.229	ug/l #	73
43) Isopropyl Acetate	8.694	43	196130	20.731	ug/l #	78
45) 1,2-Dichloropropane	9.753	63	1728	0.459	ug/l #	45
48) Methyl methacrylate	9.671	41	4503	1.050	ug/l #	25
49) 1,4-Dioxane	9.747	88	163	2.232	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	29038	5.175	ug/l #	81
54) cis-1,3-Dichloropropene	10.365	75	59935	10.064	ug/l #	70
56) Ethyl methacrylate	10.988	69	2588	0.480	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	6845	1.099	ug/l #	42
59) 2-Hexanone	11.177	43	149992	36.906	ug/l #	19
71) Bromoform	12.853	173	916	0.357	ug/l #	1
74) N-amyl acetate	12.488	43	1536	0.340	ug/l #	40
76) 1,2,3-Trichloropropane	12.853	75	91019	35.155	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	91019	89.807	ug/l #	15
95) Naphthalene	15.641	128	108	2.595	ug/l #	70

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

Quant Time: Sep 04 01:07:43 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
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QLast Update : Wed Aug 16 02:42:02 2023
Response via : Initial Calibration

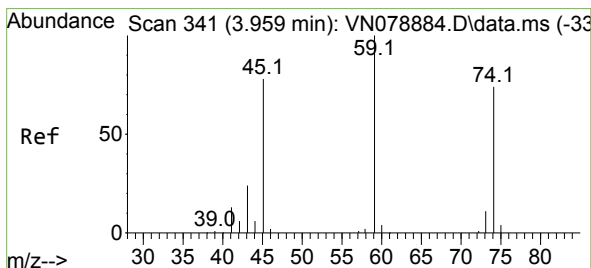
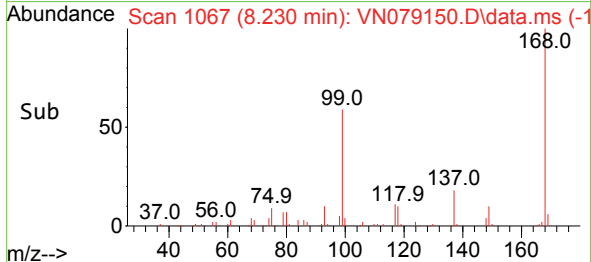
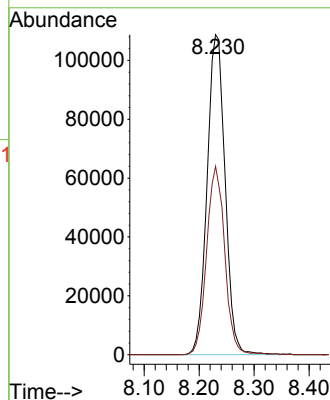
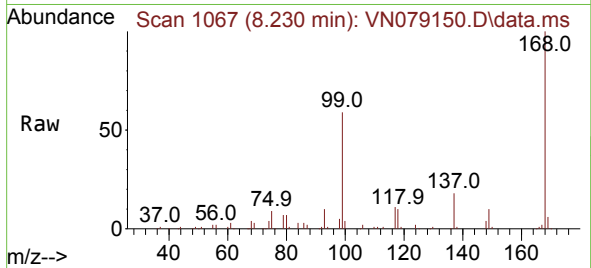




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

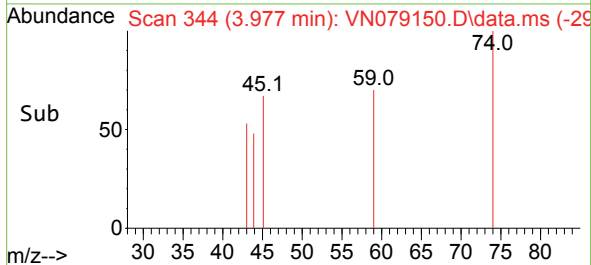
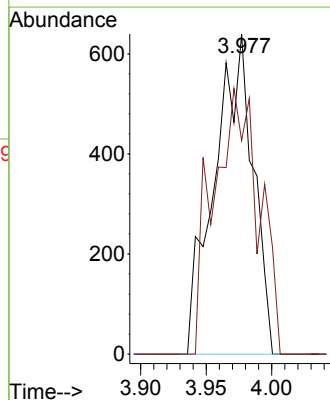
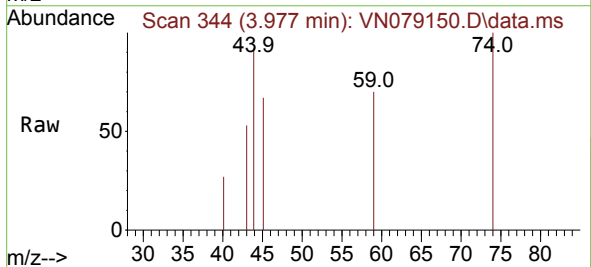
Instrument :
MSVOA_N
ClientSampleId :
MW-3

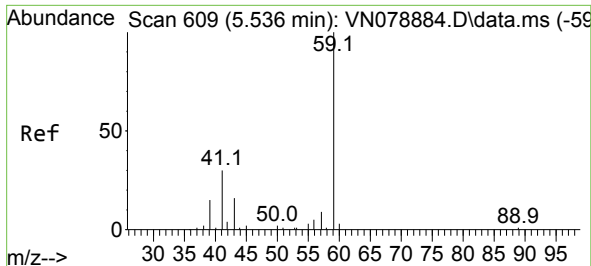
Tgt Ion:168 Resp: 247568
Ion Ratio Lower Upper
168 100
99 58.8 53.0 79.6



#8
Diethyl Ether
Concen: 0.676 ug/l
RT: 3.977 min Scan# 344
Delta R.T. 0.006 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

Tgt Ion: 74 Resp: 1312
Ion Ratio Lower Upper
74 100
45 97.4 34.4 103.3

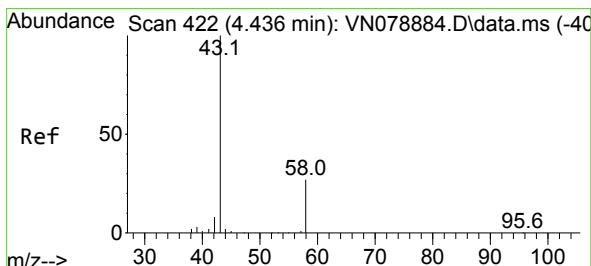
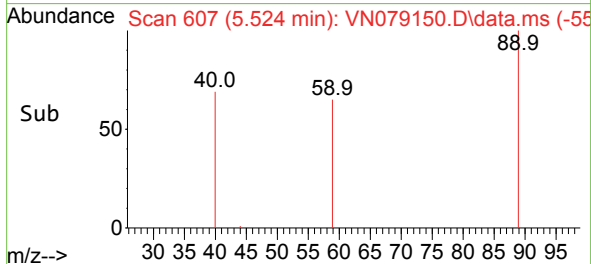
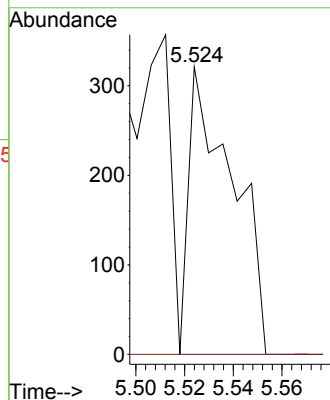
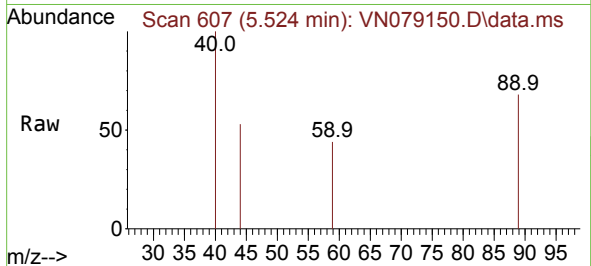




#11
Tert butyl alcohol
Concen: 0.623 ug/l
RT: 5.524 min Scan# 609
Delta R.T. -0.018 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

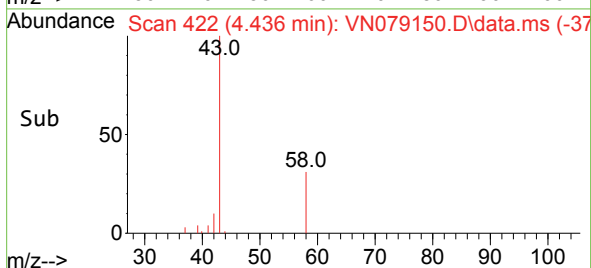
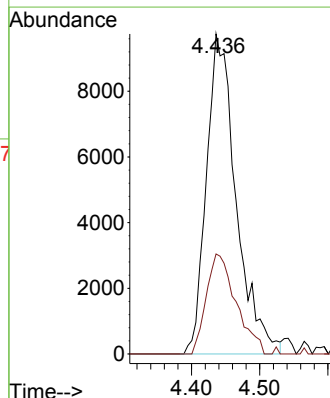
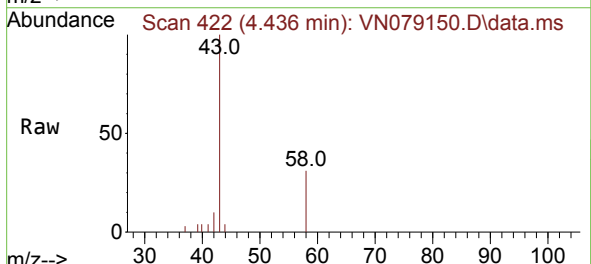
Instrument :
MSVOA_N
ClientSampleId :
MW-3

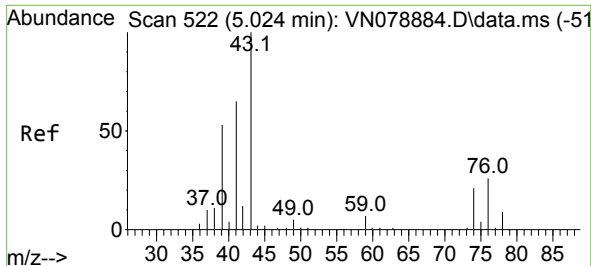
Tgt Ion: 59 Resp: 403
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 18.578 ug/l
RT: 4.436 min Scan# 422
Delta R.T. -0.006 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

Tgt Ion: 43 Resp: 29530
Ion Ratio Lower Upper
43 100
58 31.3 28.0 42.0

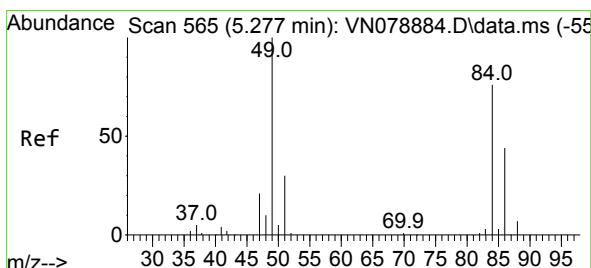
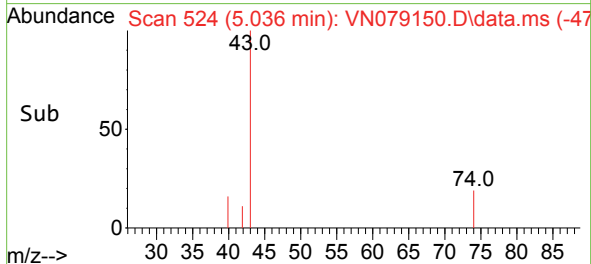
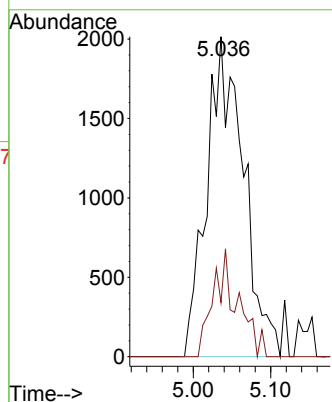
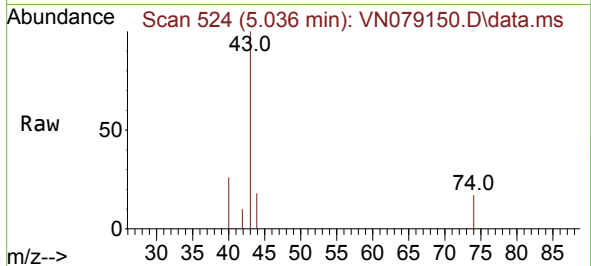




#18
Methyl Acetate
Concen: 0.984 ug/l
RT: 5.036 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

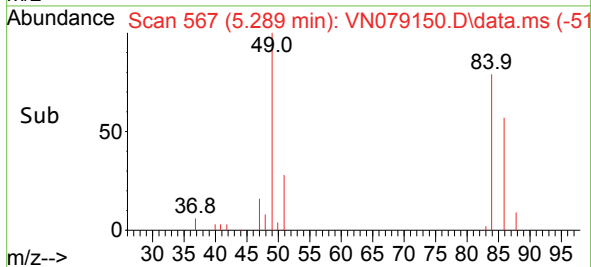
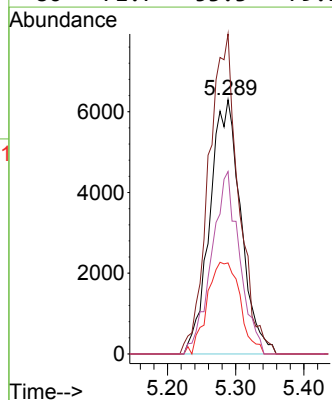
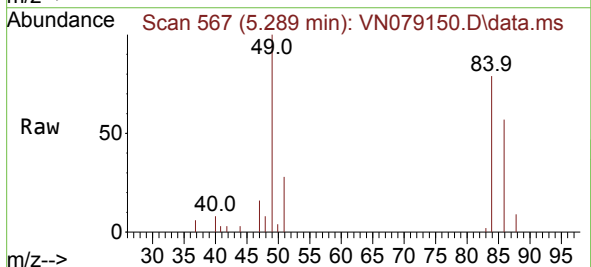
Instrument :
MSVOA_N
ClientSampleId :
MW-3

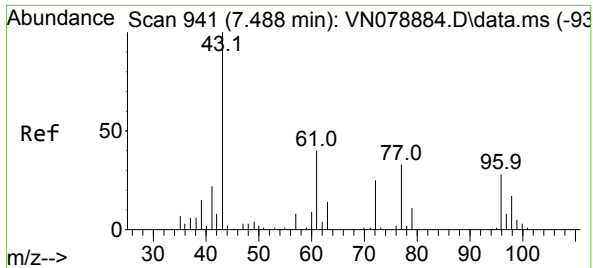
Tgt Ion: 43 Resp: 6606
Ion Ratio Lower Upper
43 100
74 15.6 26.2 39.4#



#20
Methylene Chloride
Concen: 5.883 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

Tgt Ion: 84 Resp: 19927
Ion Ratio Lower Upper
84 100
49 125.8 79.7 119.5#
51 35.8 25.2 37.8
86 71.7 53.3 79.9





#25

2-Butanone

Concen: 3.289 ug/l

RT: 7.500 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN079150.D

Acq: 02 Sep 2023 17:59

Instrument :

MSVOA_N

ClientSampleId :

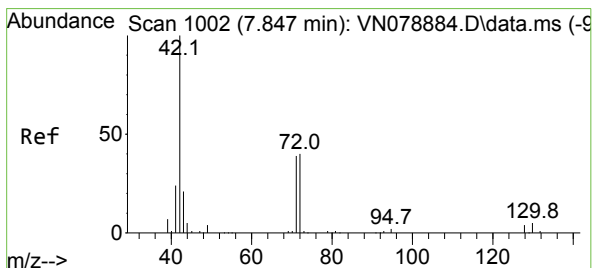
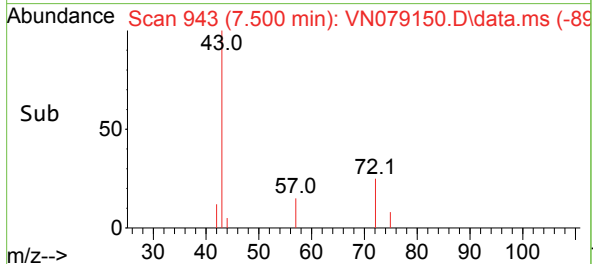
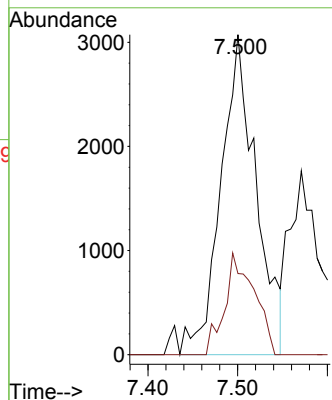
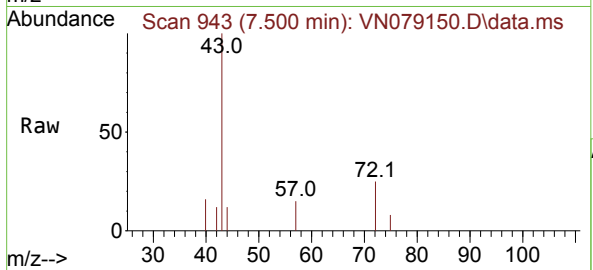
MW-3

Tgt Ion: 43 Resp: 8381

Ion Ratio Lower Upper

43 100

72 25.3 30.2 45.2#



#29

Tetrahydrofuran

Concen: 0.286 ug/l

RT: 7.865 min Scan# 1005

Delta R.T. 0.018 min

Lab File: VN079150.D

Acq: 02 Sep 2023 17:59

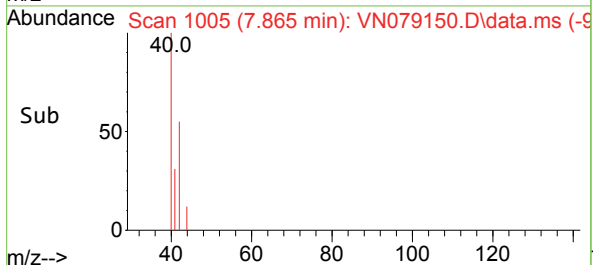
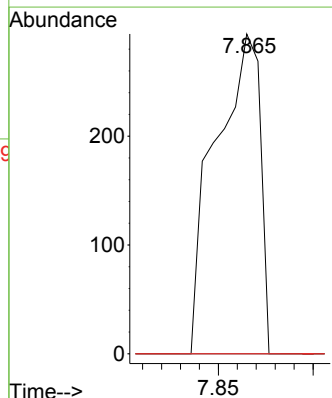
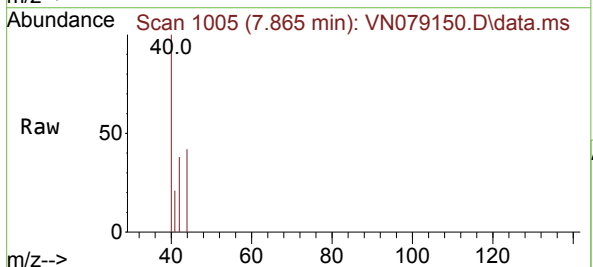
Tgt Ion: 42 Resp: 483

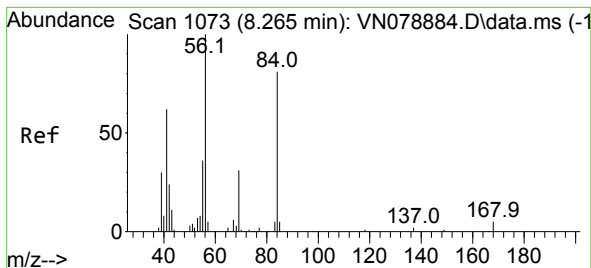
Ion Ratio Lower Upper

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: VN079150.D

Acq: 02 Sep 2023 17:59

Instrument :

MSVOA_N

ClientSampleId :

MW-3

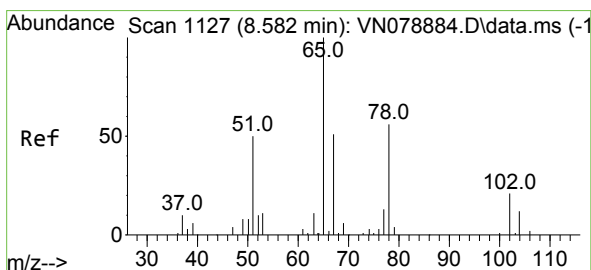
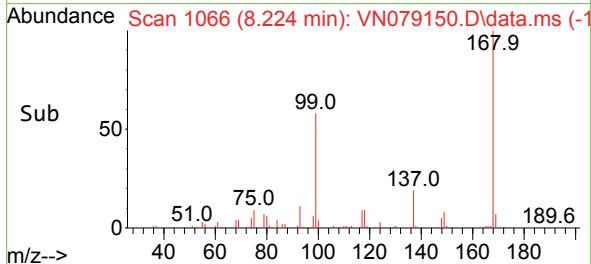
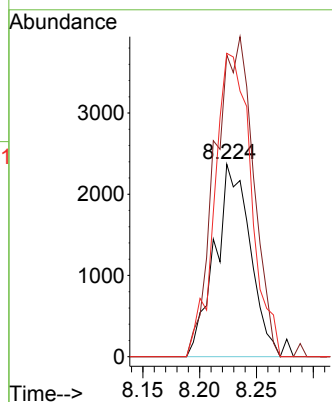
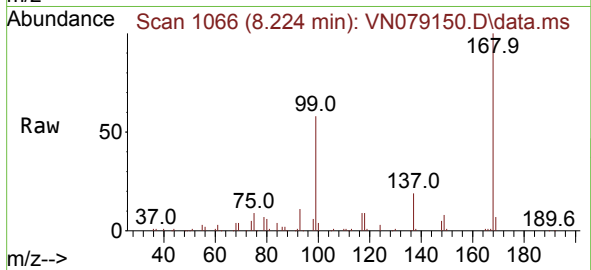
Tgt Ion: 56 Resp: 5094

Ion Ratio Lower Upper

56 100

69 156.8 26.8 40.2#

84 157.6 81.8 122.6#



#33

1,2-Dichloroethane-d4

Concen: 47.885 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.005 min

Lab File: VN079150.D

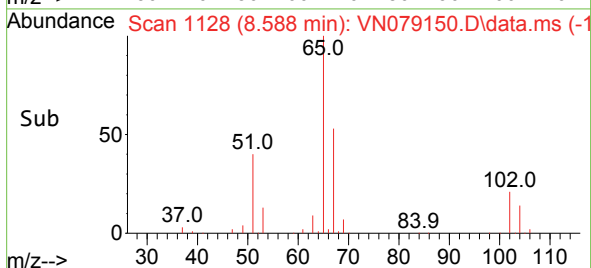
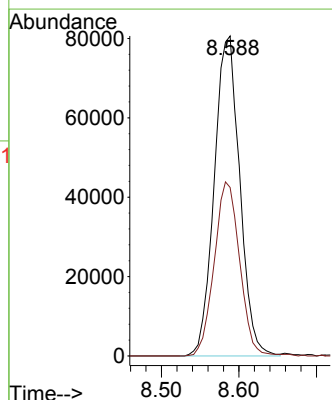
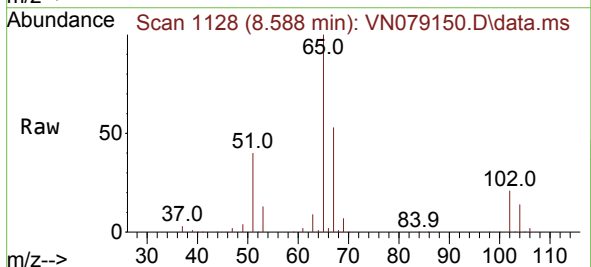
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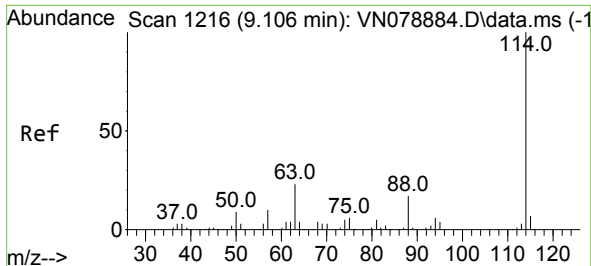
Tgt Ion: 65 Resp: 184469

Ion Ratio Lower Upper

65 100

67 54.2 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN079150.D

Acq: 02 Sep 2023 17:59

Instrument :

MSVOA_N

ClientSampleId :

MW-3

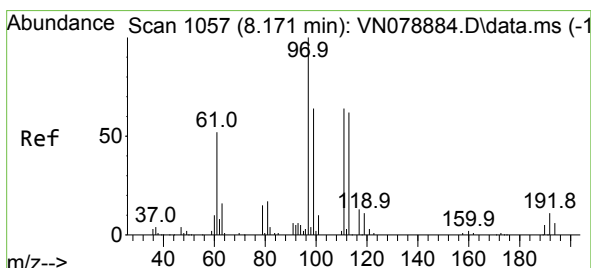
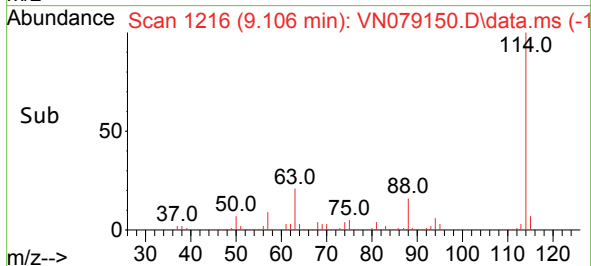
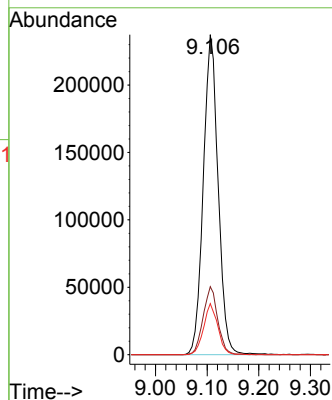
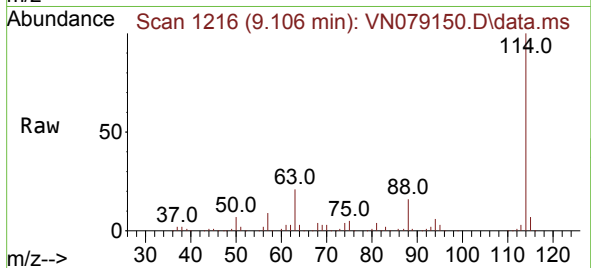
Tgt Ion:114 Resp: 472459

Ion Ratio Lower Upper

114 100

63 21.2 0.0 36.4

88 16.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.505 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079150.D

Acq: 02 Sep 2023 17:59

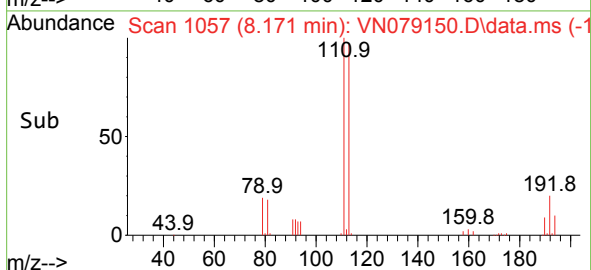
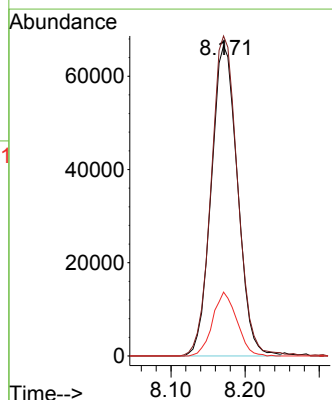
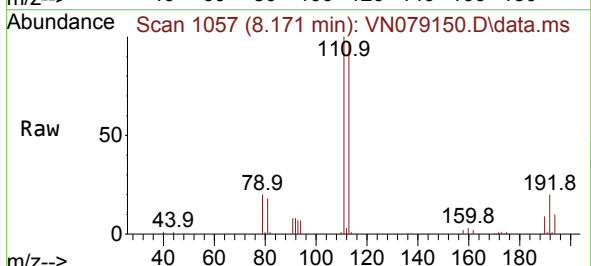
Tgt Ion:113 Resp: 163805

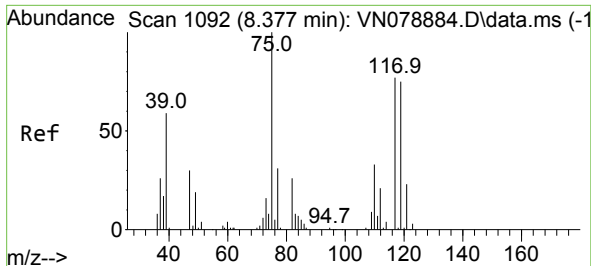
Ion Ratio Lower Upper

113 100

111 104.1 82.6 123.8

192 18.9 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.308 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079150.D

Acq: 02 Sep 2023 17:59

Instrument :

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ClientSampleId :

MW-3

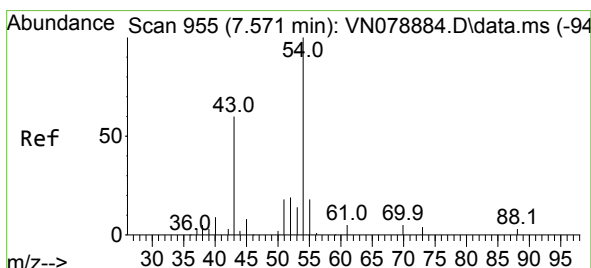
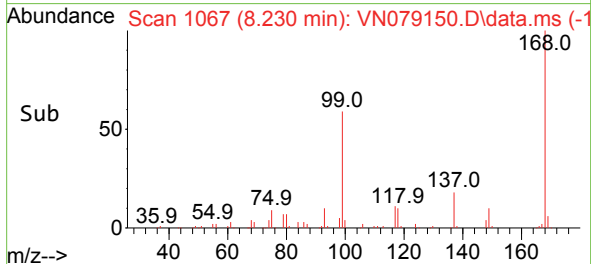
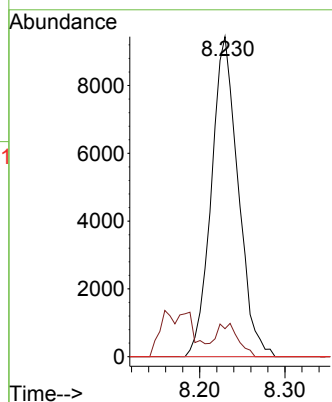
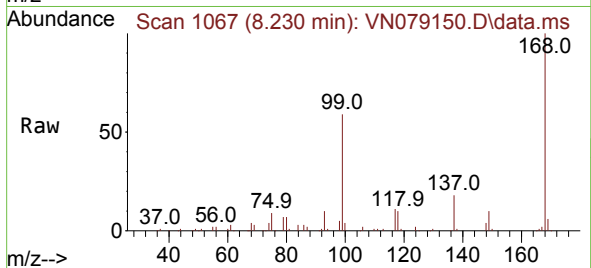
Tgt Ion: 75 Resp: 20611

Ion Ratio Lower Upper

75 100

110 9.0 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 0.817 ug/l

RT: 7.571 min Scan# 955

Delta R.T. -0.000 min

Lab File: VN079150.D

Acq: 02 Sep 2023 17:59

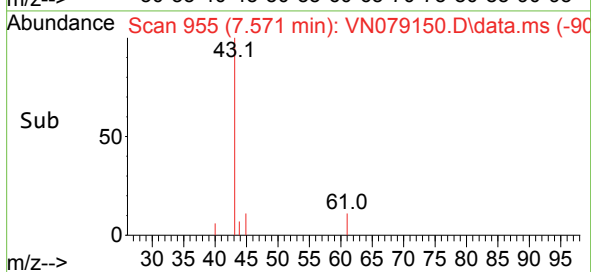
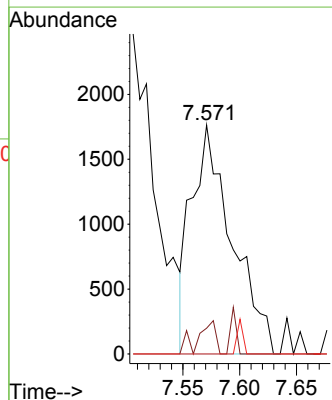
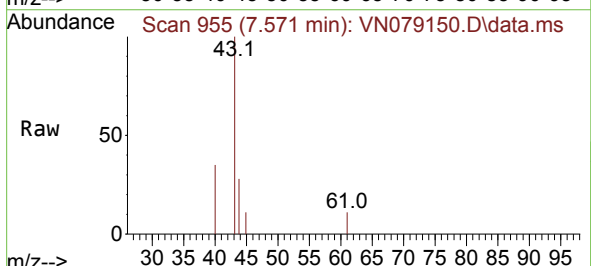
Tgt Ion: 43 Resp: 4374

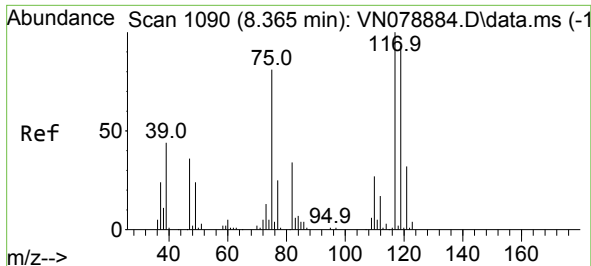
Ion Ratio Lower Upper

43 100

61 6.4 13.2 19.8#

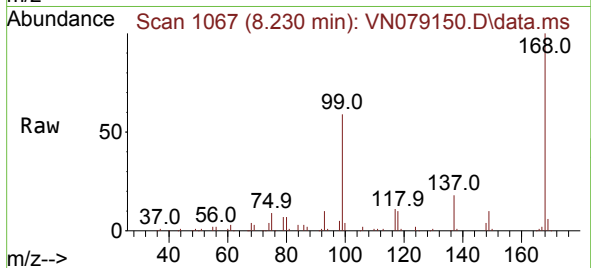
70 0.0 11.3 16.9#



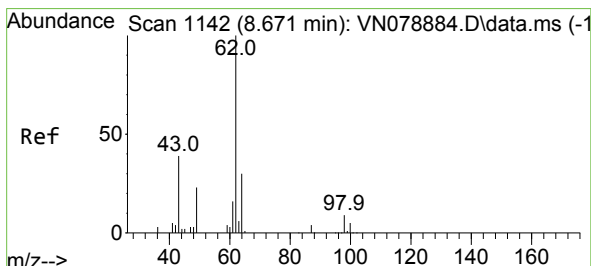
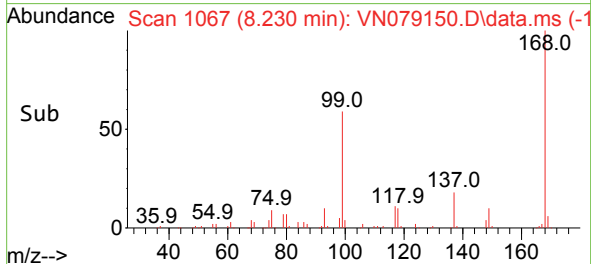
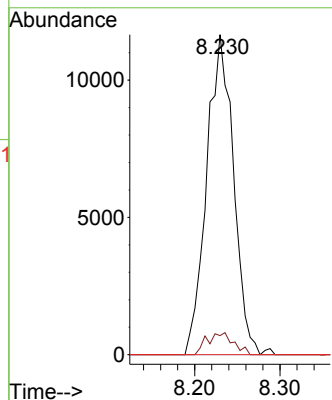


#38
Carbon Tetrachloride
Concen: 5.328 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

Instrument :
MSVOA_N
ClientSampleId :
MW-3

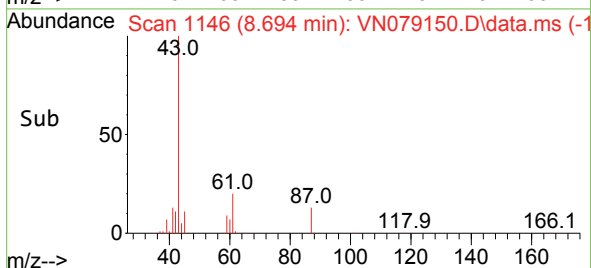
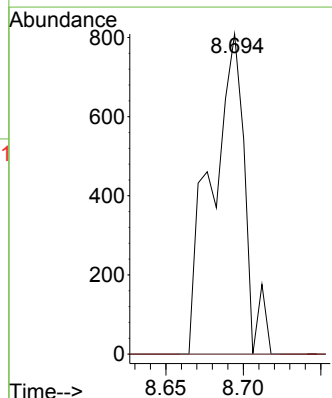
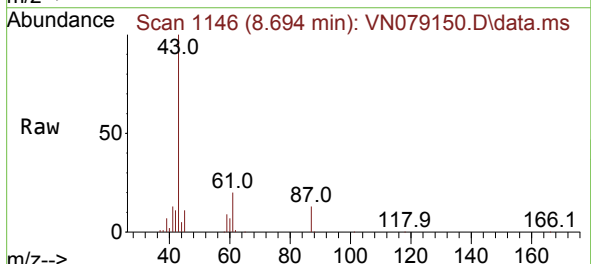


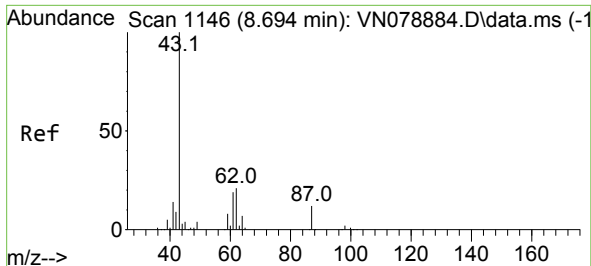
Tgt Ion:117 Resp: 25538
Ion Ratio Lower Upper
117 100
119 6.0 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.229 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.017 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

Tgt Ion: 62 Resp: 1212
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

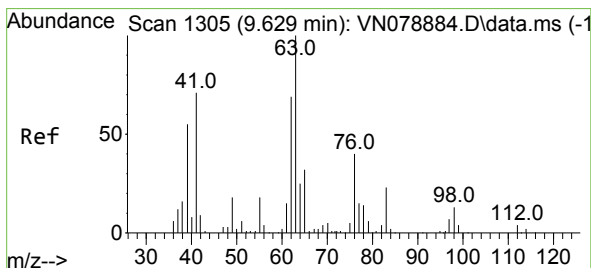
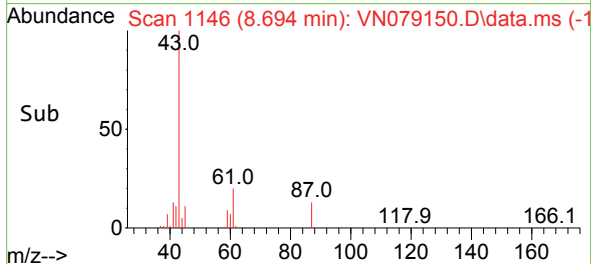
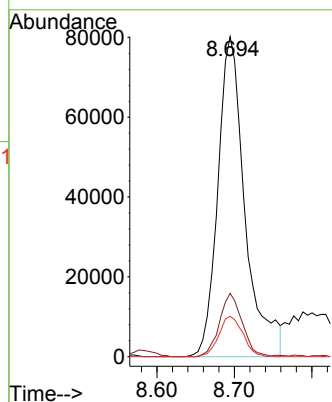
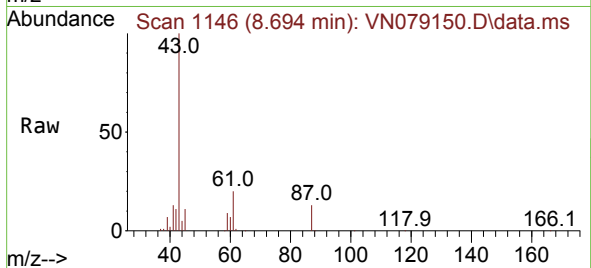




#43
Isopropyl Acetate
Concen: 20.731 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

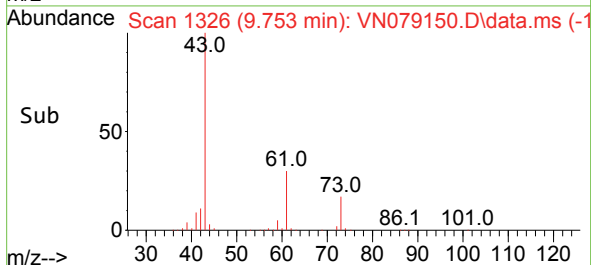
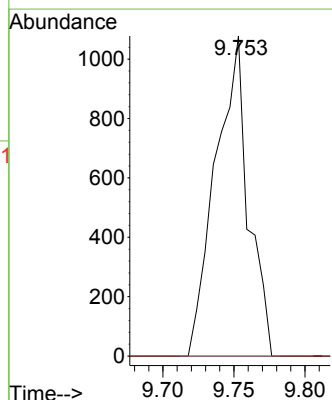
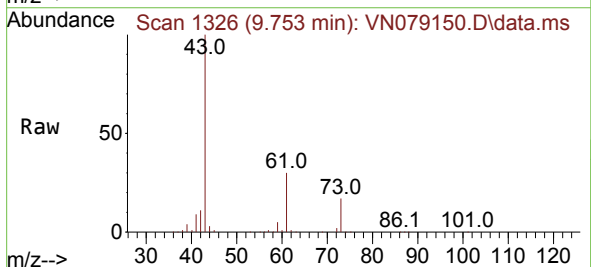
Instrument :
MSVOA_N
ClientSampleId :
MW-3

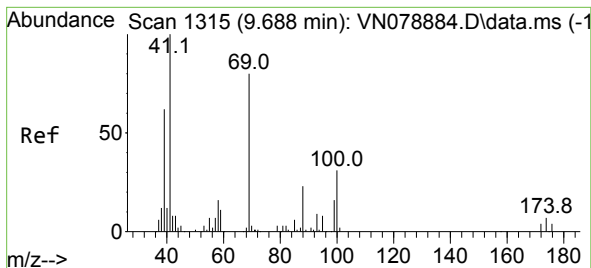
Tgt Ion: 43 Resp: 196130
Ion Ratio Lower Upper
43 100
61 16.5 24.7 37.1#
87 11.1 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.459 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.129 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

Tgt Ion: 63 Resp: 1728
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#





#48

Methyl methacrylate

Concen: 1.050 ug/l

RT: 9.671 min Scan# 1

Delta R.T. -0.017 min

Lab File: VN079150.D

Acq: 02 Sep 2023 17:59

Instrument :

MSVOA_N

ClientSampleId :

MW-3

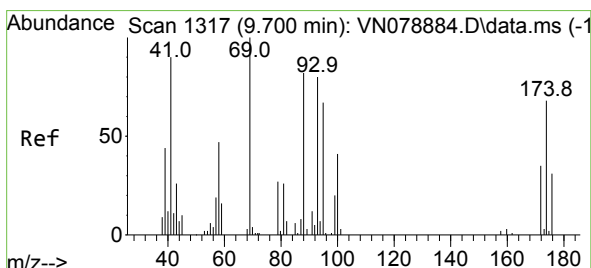
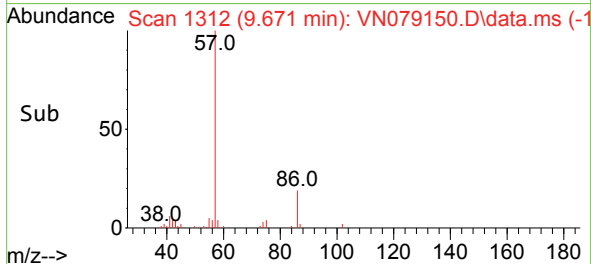
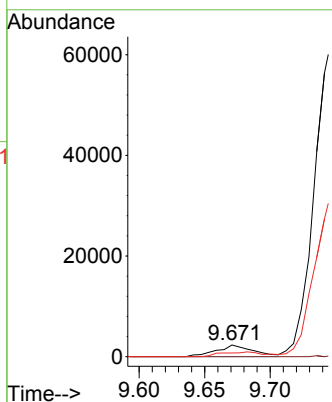
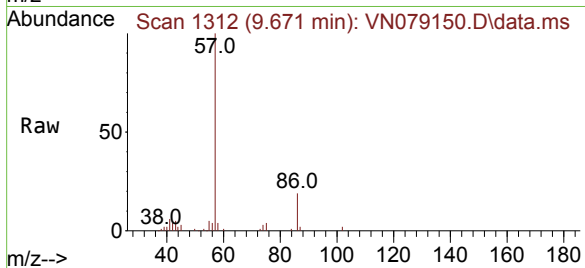
Tgt Ion: 41 Resp: 4503

Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 49.1 54.6 81.8#



#49

1,4-Dioxane

Concen: 2.232 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.047 min

Lab File: VN079150.D

Acq: 02 Sep 2023 17:59

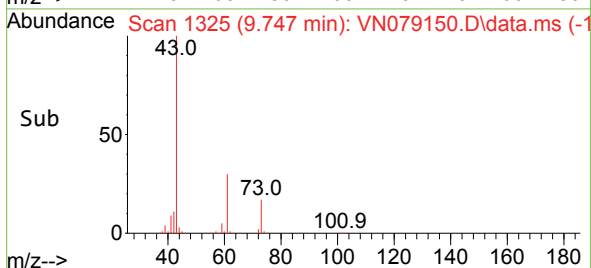
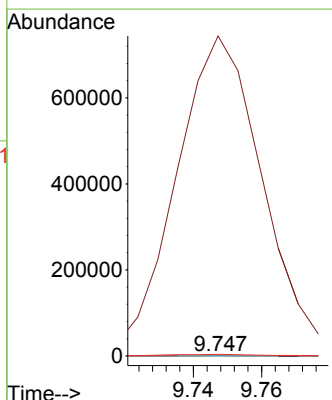
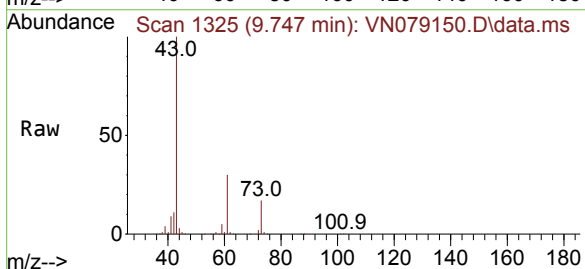
Tgt Ion: 88 Resp: 163

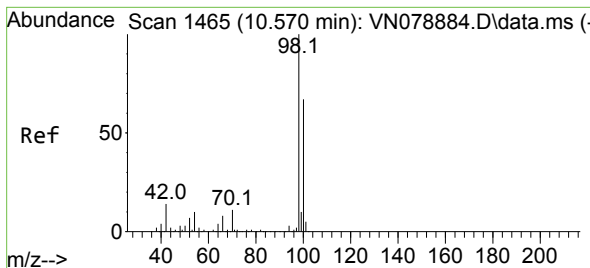
Ion Ratio Lower Upper

88 100

43 820169.3 17.0 25.6#

58 4382.2 47.0 70.4#

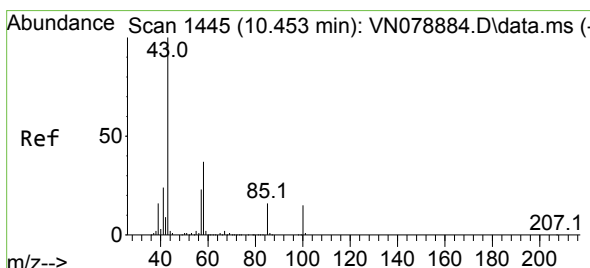
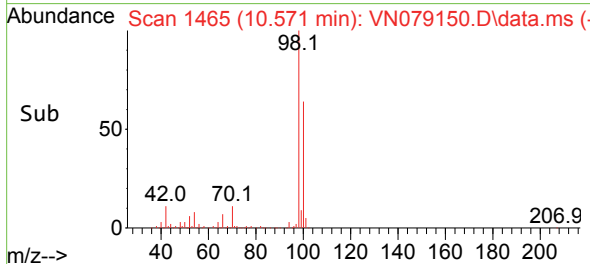
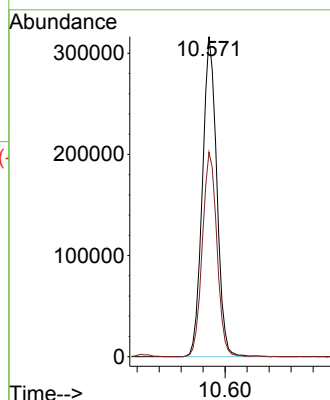
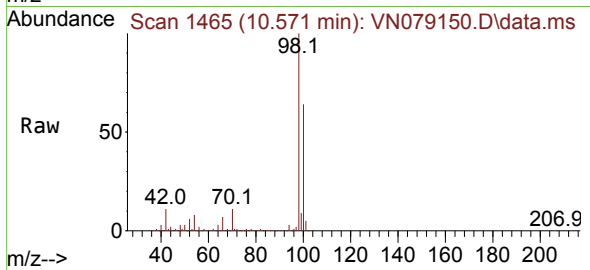




#50
Toluene-d8
Concen: 48.540 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

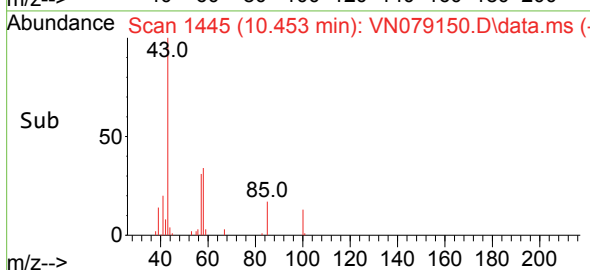
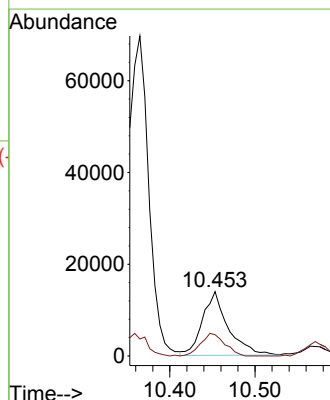
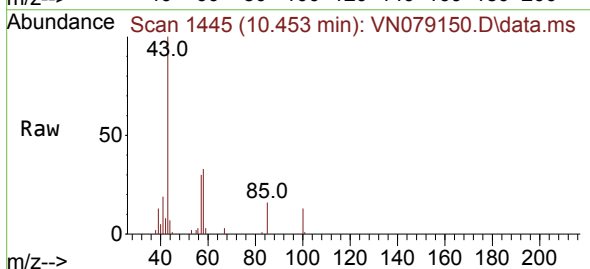
Instrument :
MSVOA_N
ClientSampleId :
MW-3

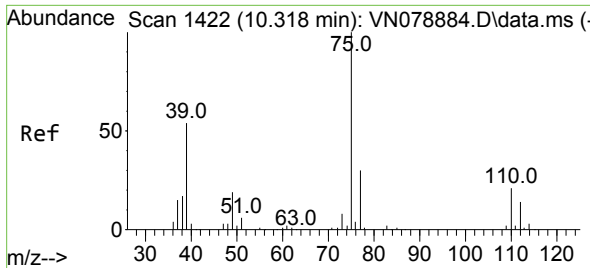
Tgt Ion: 98 Resp: 573200
Ion Ratio Lower Upper
98 100
100 64.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 5.175 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

Tgt Ion: 43 Resp: 29038
Ion Ratio Lower Upper
43 100
58 33.0 36.6 54.8#

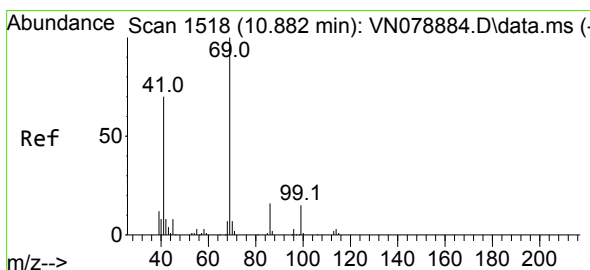
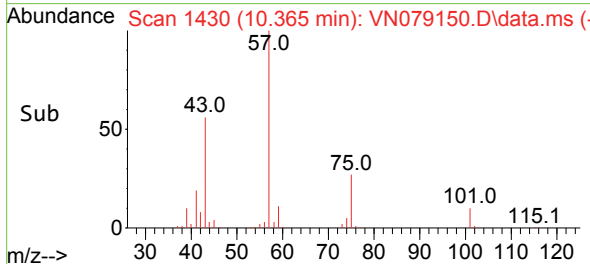
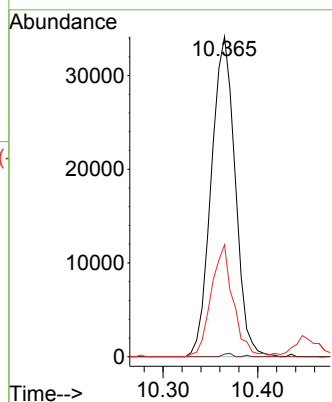
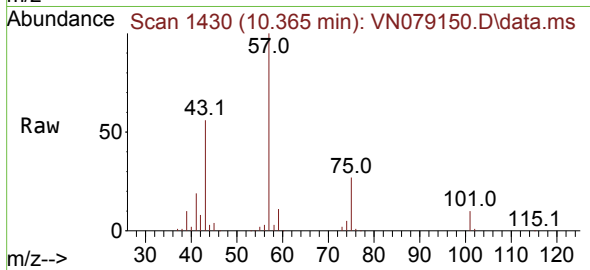




#54
cis-1,3-Dichloropropene
Concen: 10.064 ug/l
RT: 10.365 min Scan# 1422
Delta R.T. 0.047 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

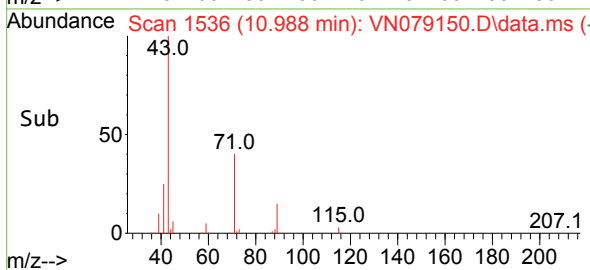
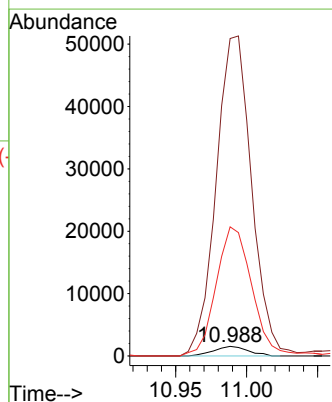
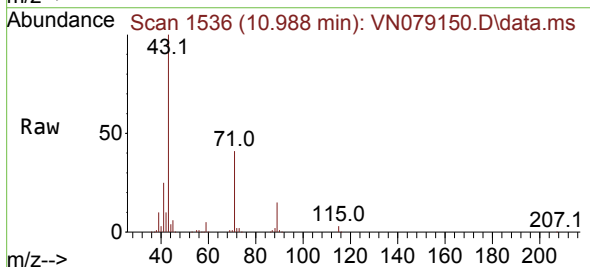
Instrument :
MSVOA_N
ClientSampleId :
MW-3

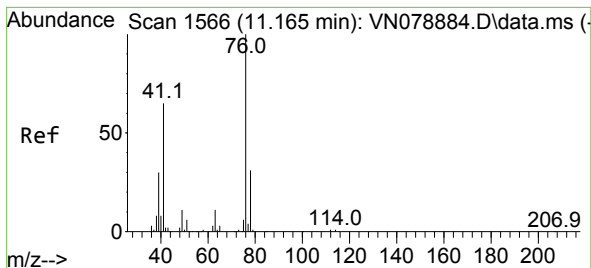
Tgt Ion: 75 Resp: 59935
Ion Ratio Lower Upper
75 100
77 0.8 26.1 39.1#
39 35.0 31.6 47.4



#56
Ethyl methacrylate
Concen: 0.480 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.111 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

Tgt Ion: 69 Resp: 2588
Ion Ratio Lower Upper
69 100
41 3452.6 39.6 59.4#
39 1407.1 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.099 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN079150.D

Acq: 02 Sep 2023 17:59

Instrument :

MSVOA_N

ClientSampleId :

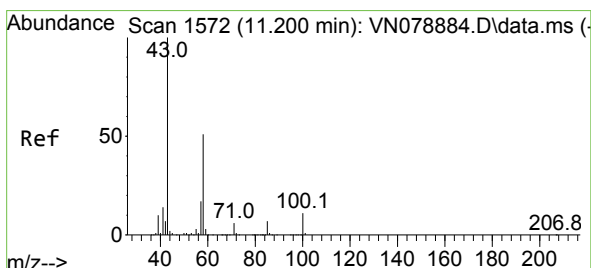
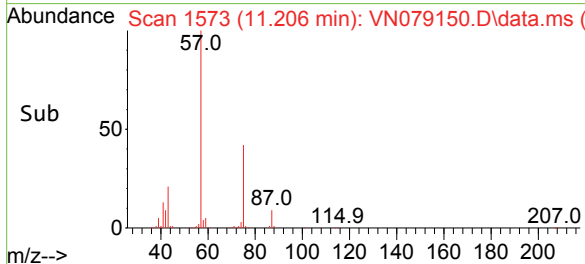
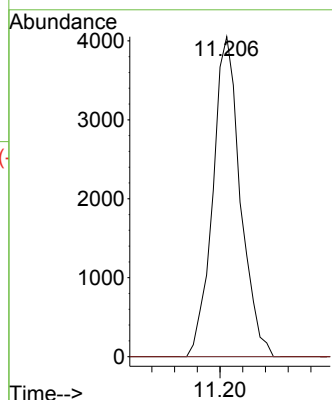
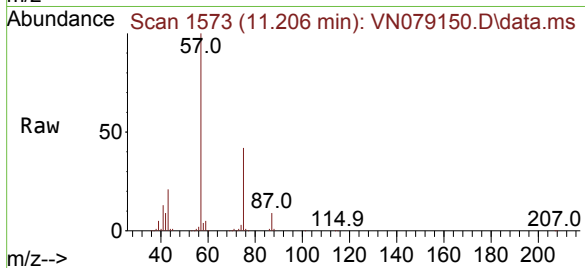
MW-3

Tgt Ion: 76 Resp: 6845

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 36.906 ug/l

RT: 11.177 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN079150.D

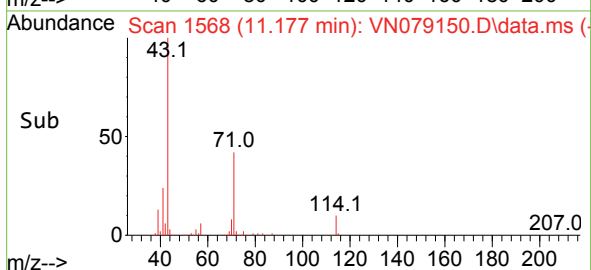
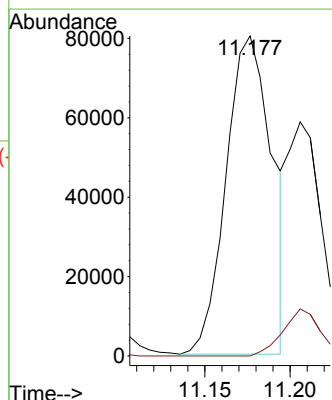
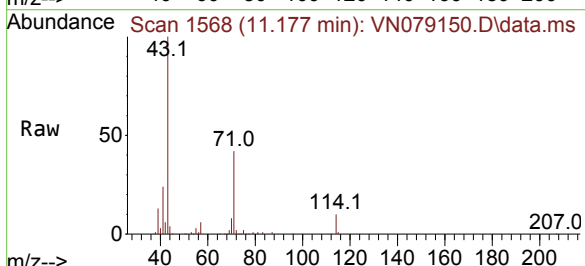
Acq: 02 Sep 2023 17:59

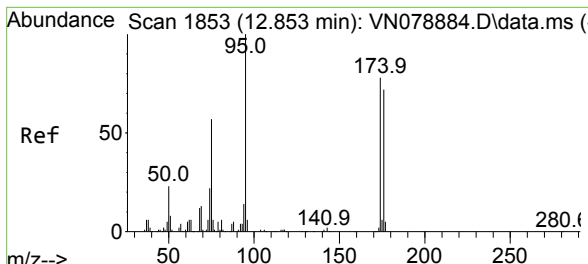
Tgt Ion: 43 Resp: 149992

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

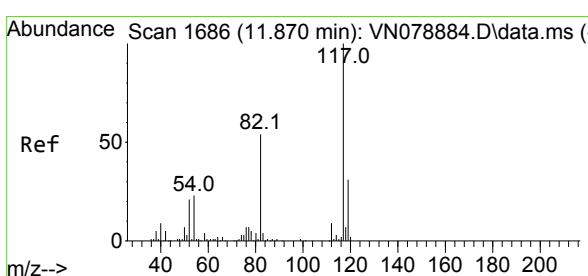
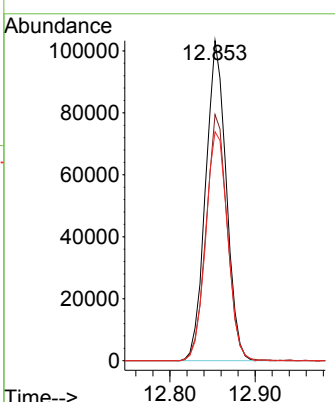
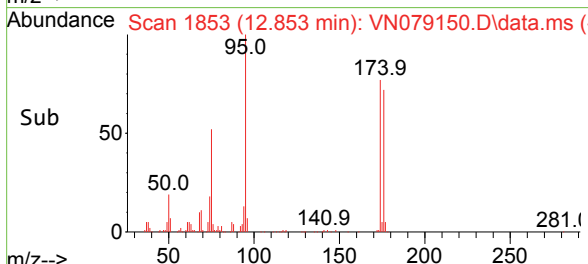
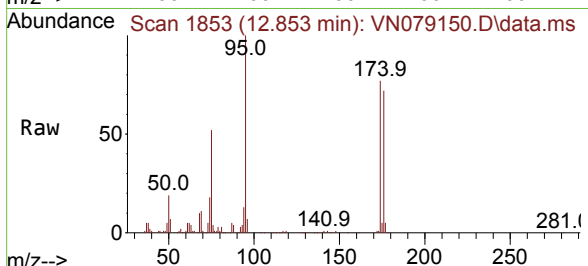




#62
 4-Bromofluorobenzene
 Concen: 44.894 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN079150.D
 Acq: 02 Sep 2023 17:59

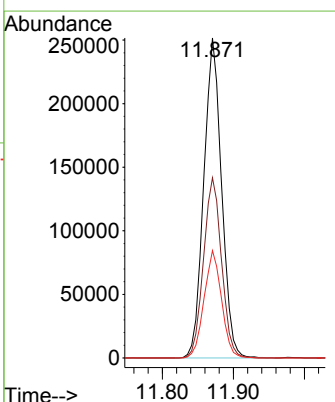
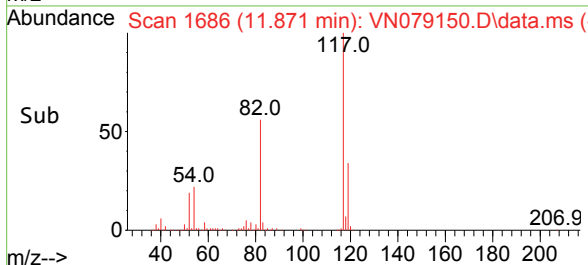
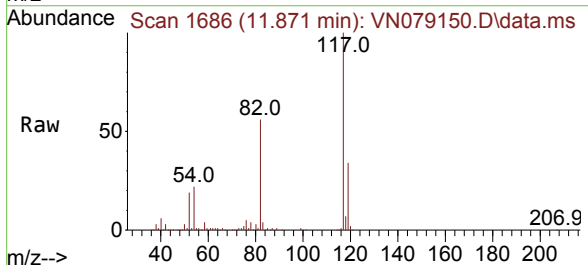
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

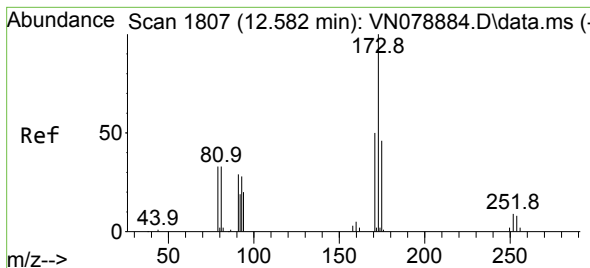
Tgt Ion:	95	Resp:	173283
Ion	Ratio	Lower	Upper
95	100		
174	78.6	0.0	143.8
176	76.1	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. -0.000 min
 Lab File: VN079150.D
 Acq: 02 Sep 2023 17:59

Tgt Ion:	117	Resp:	438554
Ion	Ratio	Lower	Upper
117	100		
82	56.3	44.0	66.0
119	33.6	25.6	38.4





#71

Bromoform

Concen: 0.357 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN079150.D

Acq: 02 Sep 2023 17:59

Instrument :

MSVOA_N

ClientSampleId :

MW-3

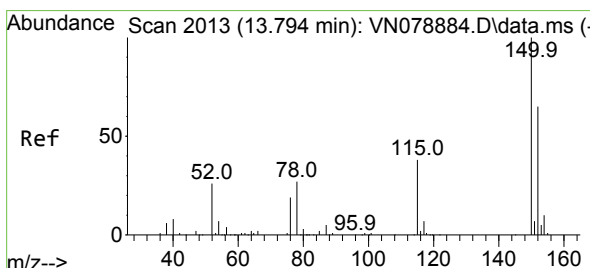
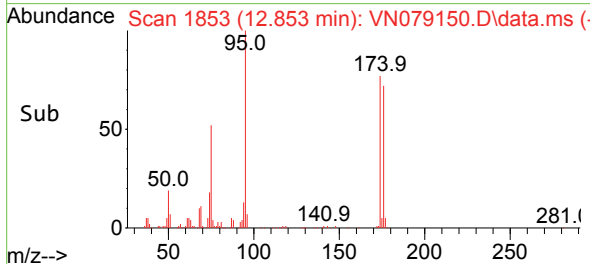
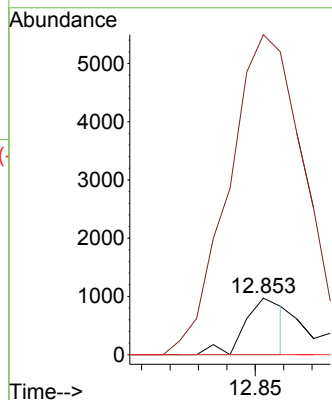
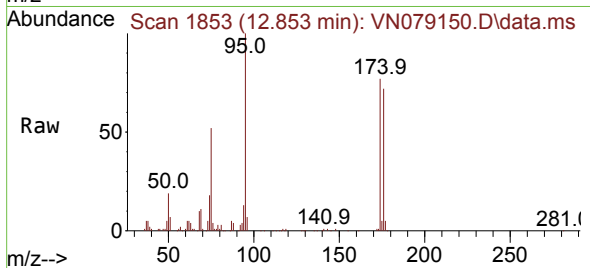
Tgt Ion:173 Resp: 916

Ion Ratio Lower Upper

173 100

175 819.8 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: VN079150.D

Acq: 02 Sep 2023 17:59

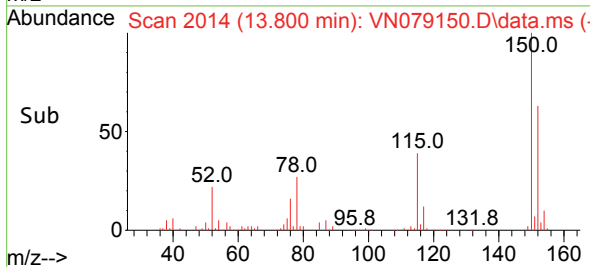
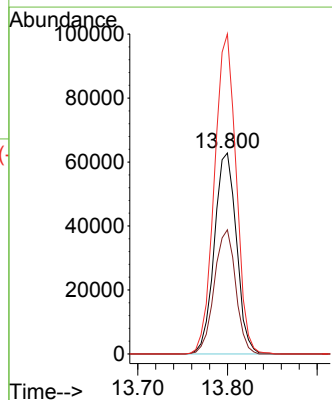
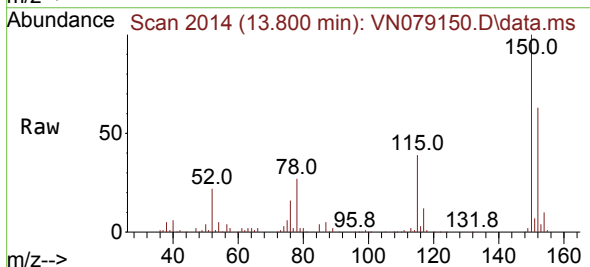
Tgt Ion:152 Resp: 107451

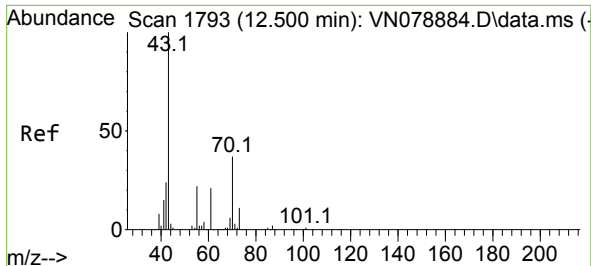
Ion Ratio Lower Upper

152 100

115 59.9 32.3 96.8

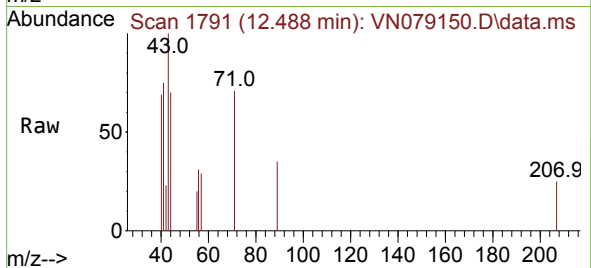
150 156.6 0.0 355.8



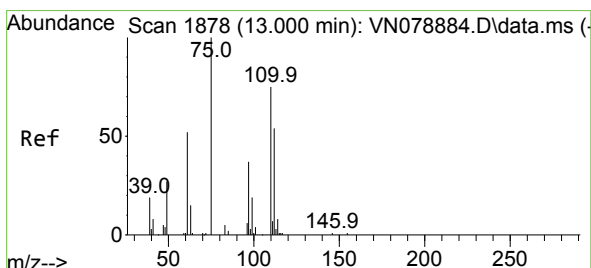
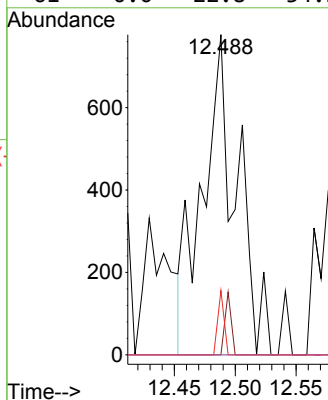
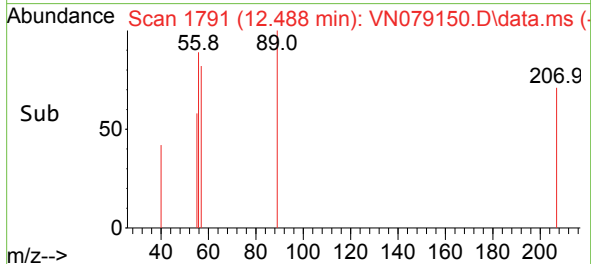


#74
N-amy1 acetate
Concen: 0.340 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

Instrument :
MSVOA_N
ClientSampleId :
MW-3

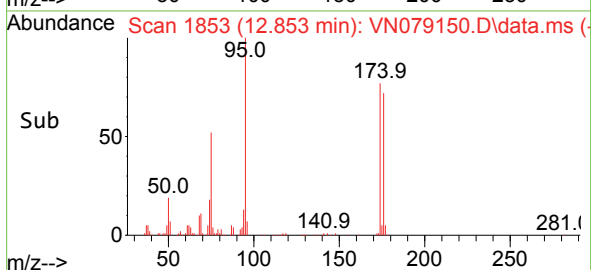
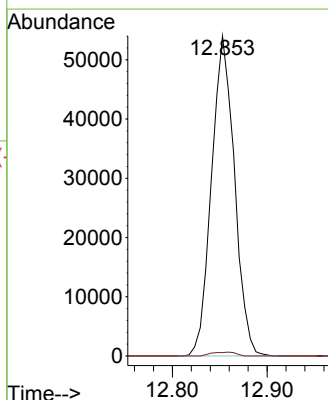
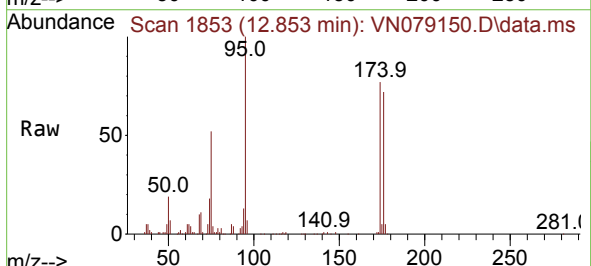


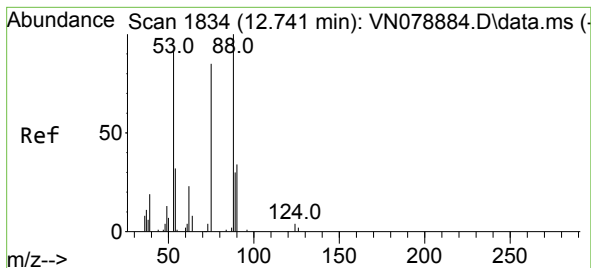
Tgt Ion: 43	Resp: 1536
Ion Ratio	Lower Upper
43 100	
70 3.5	43.4 65.2#
55 3.6	21.4 32.0#
61 0.0	22.8 34.2#



#76
1,2,3-Trichloropropane
Concen: 35.155 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

Tgt Ion: 75	Resp: 91019
Ion Ratio	Lower Upper
75 100	
77 1.3	84.5 253.5#

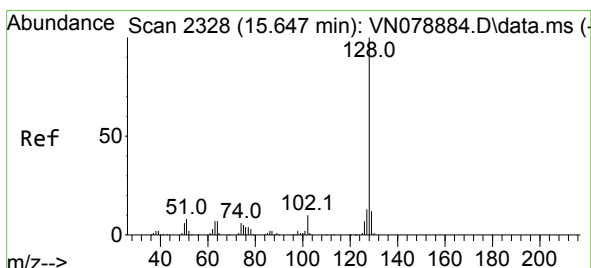
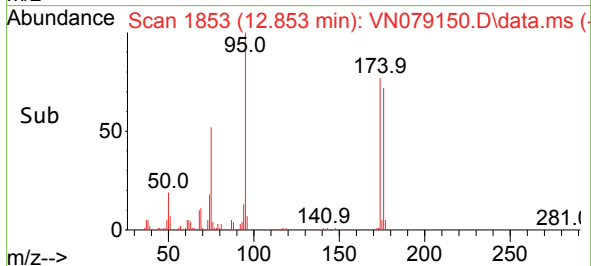
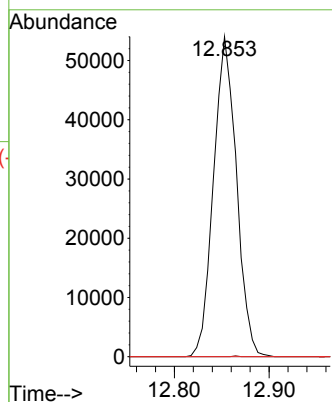
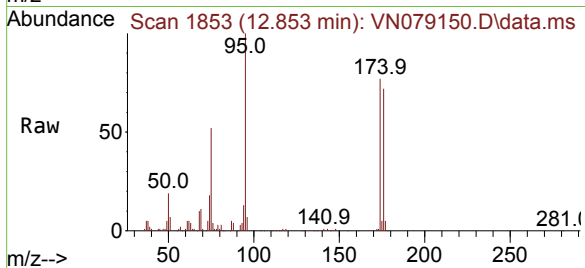




#81
trans-1,4-Dichloro-2-butene
Concen: 89.807 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

Instrument :
MSVOA_N
ClientSampleId :
MW-3

Tgt Ion: 75 Resp: 91019
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#



#95
Naphthalene
Concen: 2.595 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.006 min
Lab File: VN079150.D
Acq: 02 Sep 2023 17:59

Tgt Ion:128 Resp: 108
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

