

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081623\
 Data File : VN078899.D
 Acq On : 16 Aug 2023 13:40
 Operator : JC\MD
 Sample : PB154855ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB154855ZHE#02

Quant Time: Aug 17 01:15:45 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)

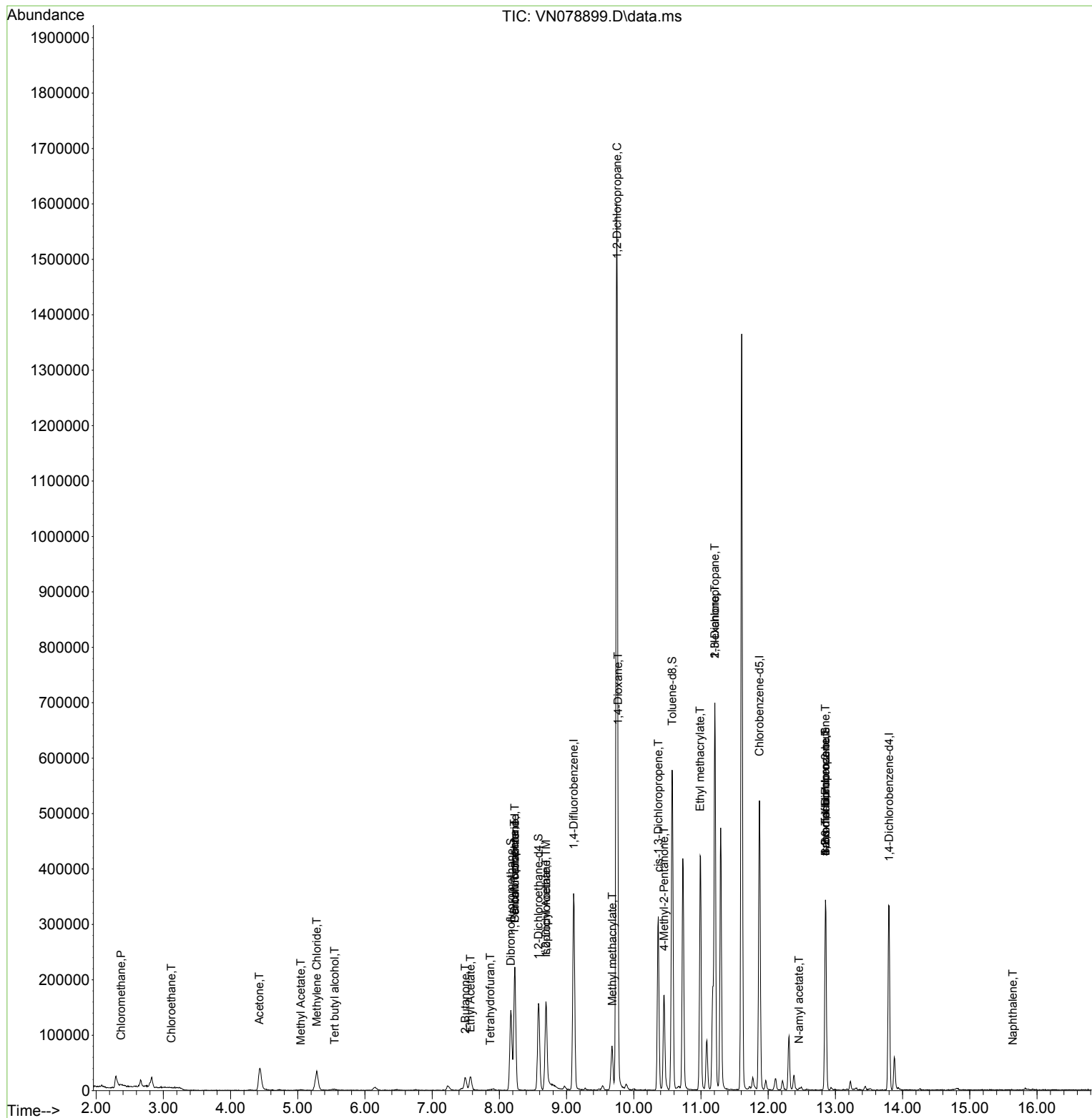
Internal Standards						
1) Pentafluorobenzene	8.230	168	148917	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	288702	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	282270	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	84686	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	125934	54.346	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 108.700%	
35) Dibromofluoromethane	8.171	113	100055	51.485	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.960%	
50) Toluene-d8	10.571	98	384787	53.324	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 106.640%	
62) 4-Bromofluorobenzene	12.853	95	111977	47.476	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 94.960%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1884	0.653	ug/l	90
6) Chloroethane	3.118	64	745	0.421	ug/l #	43
11) Tert butyl alcohol	5.547	59	1641	4.220	ug/l #	72
16) Acetone	4.430	43	77679	81.242	ug/l	89
18) Methyl Acetate	5.047	43	2201	0.545	ug/l #	50
20) Methylene Chloride	5.283	84	23287	11.429	ug/l #	78
25) 2-Butanone	7.494	43	37198	24.266	ug/l #	81
29) Tetrahydrofuran	7.865	42	852	0.840	ug/l #	20
31) Cyclohexane	8.230	56	4500	Below Cal	#	32
36) 1,1-Dichloropropene	8.224	75	14684	5.023	ug/l #	46
37) Ethyl Acetate	7.571	43	40709	12.446	ug/l #	88
38) Carbon Tetrachloride	8.230	117	16140	5.510	ug/l #	14
42) 1,2-Dichloroethane	8.694	62	1019	0.316	ug/l #	73
43) Isopropyl Acetate	8.694	43	191312	33.092	ug/l #	76
45) 1,2-Dichloropropane	9.753	63	1565	0.680	ug/l #	45
48) Methyl methacrylate	9.682	41	6558	2.503	ug/l #	30
49) 1,4-Dioxane	9.765	88	80	1.793	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	127214	37.101	ug/l #	82
54) cis-1,3-Dichloropropene	10.365	75	51045	14.026	ug/l #	71
56) Ethyl methacrylate	10.988	69	2036	0.617	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	6433	1.691	ug/l #	42
59) 2-Hexanone	11.206	43	99874	40.215	ug/l #	47
71) Bromoform	12.853	173	1620	0.981	ug/l #	1
74) N-amyl acetate	12.459	43	2849	0.799	ug/l #	38
76) 1,2,3-Trichloropropane	12.853	75	63544	31.141	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	63544	79.552	ug/l #	15
95) Naphthalene	15.641	128	379	2.667	ug/l #	70

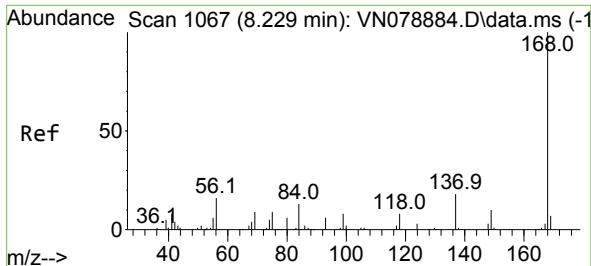
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081623\
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Sample : PB154855ZHE#02
Misc : 5.0mL/MSVOA_N/WATER
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Quant Time: Aug 17 01:15:45 2023
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QLast Update : Wed Aug 16 02:42:02 2023
Response via : Initial Calibration

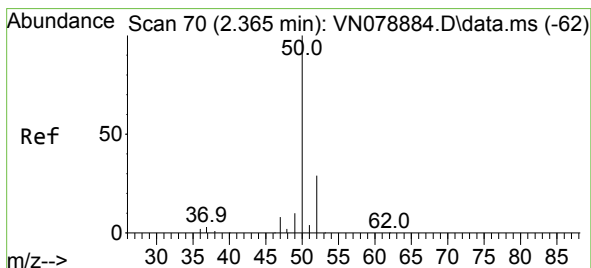
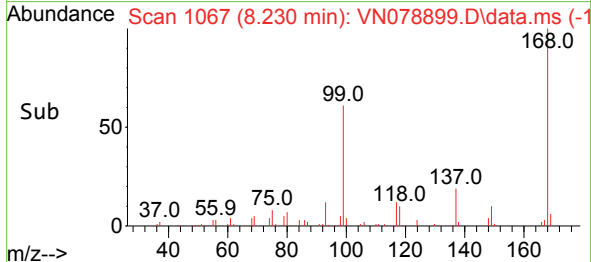
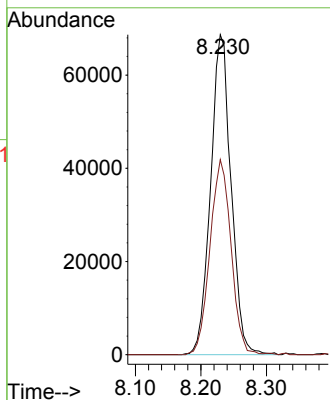
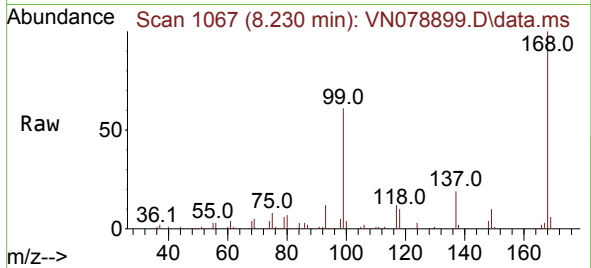




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN078899.D
Acq: 16 Aug 2023 13:40

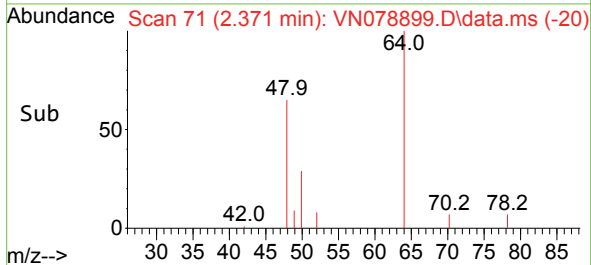
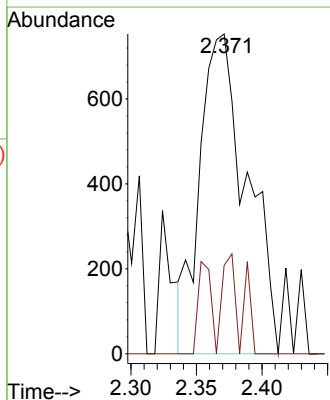
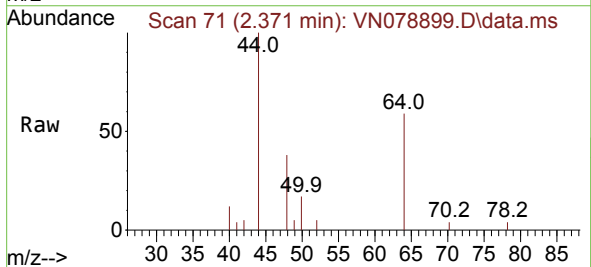
Instrument :
MSVOA_N
ClientSampleId :
PB154855ZHE#02

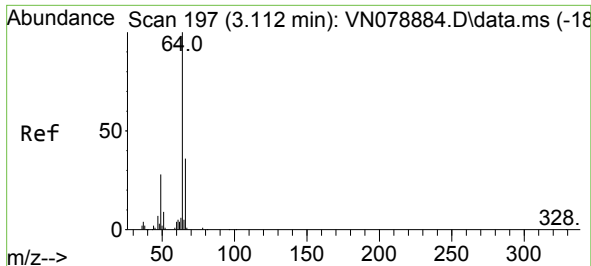
Tgt Ion:168 Resp: 148917
Ion Ratio Lower Upper
168 100
99 61.0 53.0 79.6



#3
Chloromethane
Concen: 0.653 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078899.D
Acq: 16 Aug 2023 13:40

Tgt Ion: 50 Resp: 1884
Ion Ratio Lower Upper
50 100
52 27.6 26.5 39.7

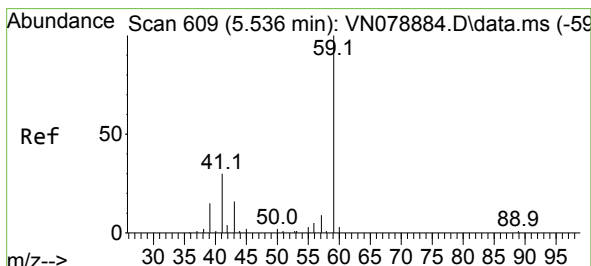
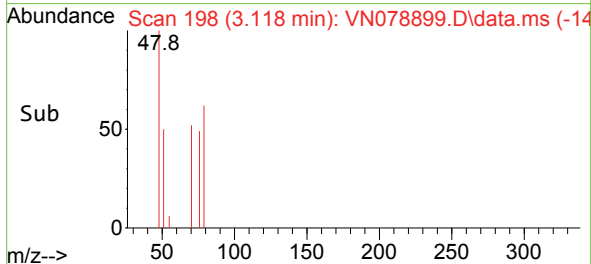
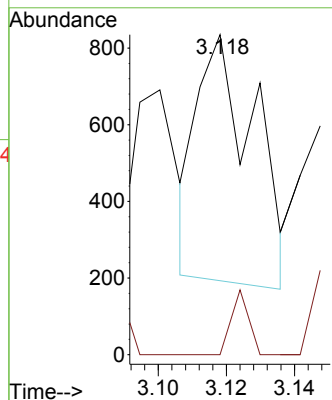
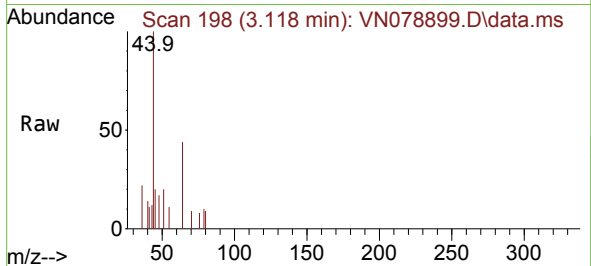




#6
Chloroethane
Concen: 0.421 ug/l
RT: 3.118 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN078899.D
Acq: 16 Aug 2023 13:40

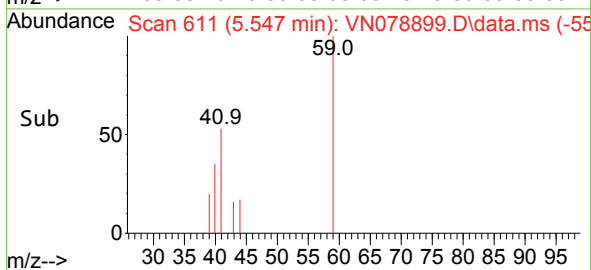
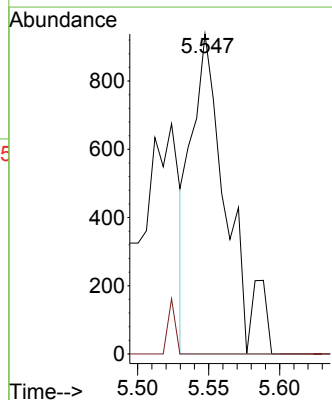
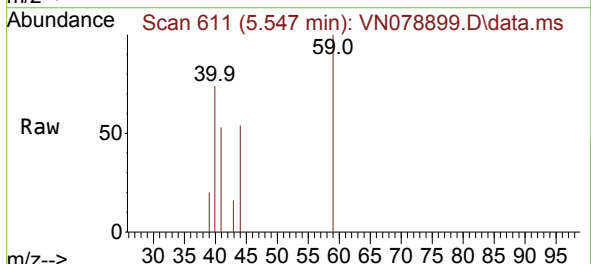
Instrument :
MSVOA_N
ClientSampleId :
PB154855ZHE#02

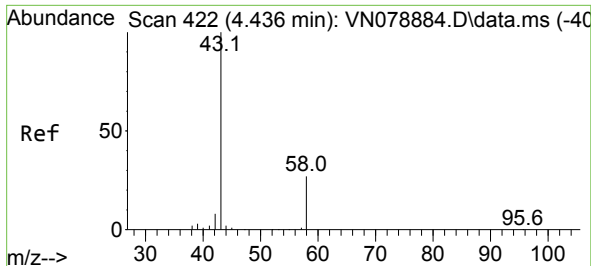
Tgt Ion: 64 Resp: 745
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 4.220 ug/l
RT: 5.547 min Scan# 611
Delta R.T. 0.005 min
Lab File: VN078899.D
Acq: 16 Aug 2023 13:40

Tgt Ion: 59 Resp: 1641
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 81.242 ug/l

RT: 4.430 min Scan# 41

Delta R.T. -0.012 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

Instrument :

MSVOA_N

ClientSampleId :

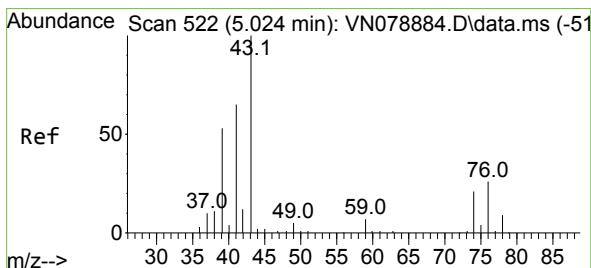
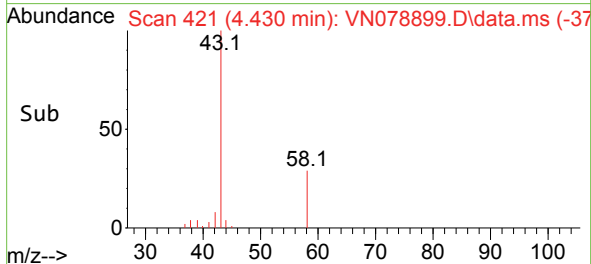
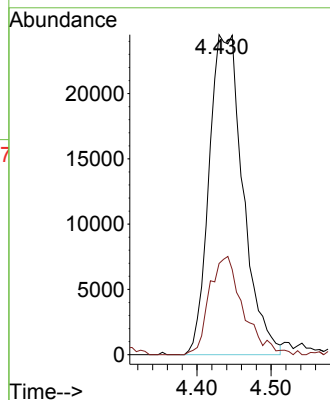
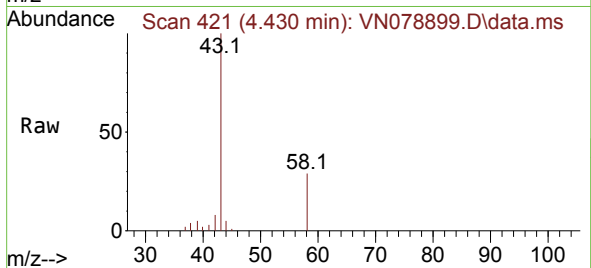
PB154855ZHE#02

Tgt Ion: 43 Resp: 77679

Ion Ratio Lower Upper

43 100

58 28.5 28.0 42.0



#18

Methyl Acetate

Concen: 0.545 ug/l

RT: 5.047 min Scan# 526

Delta R.T. 0.005 min

Lab File: VN078899.D

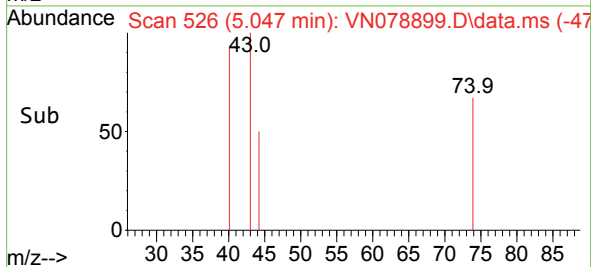
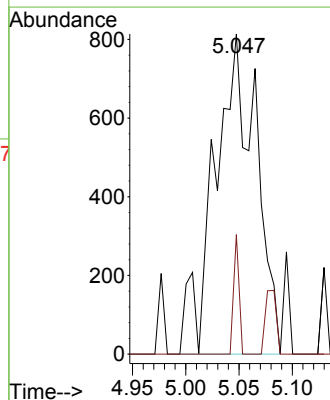
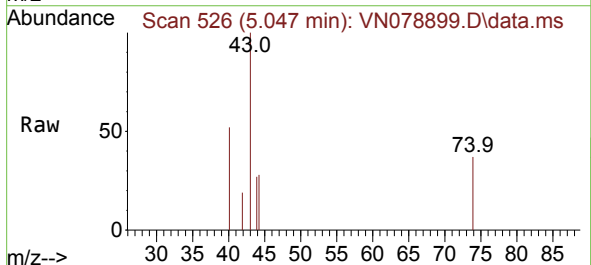
Acq: 16 Aug 2023 13:40

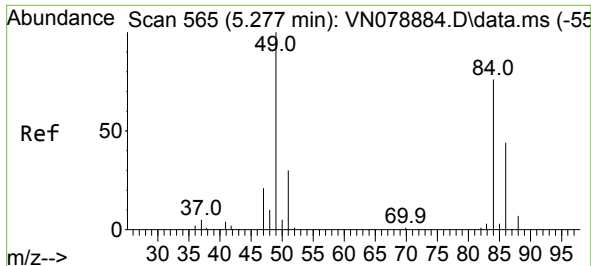
Tgt Ion: 43 Resp: 2201

Ion Ratio Lower Upper

43 100

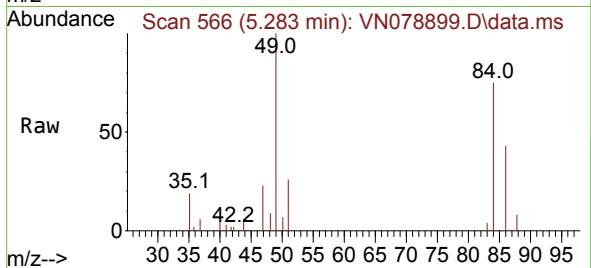
74 4.9 26.2 39.4#



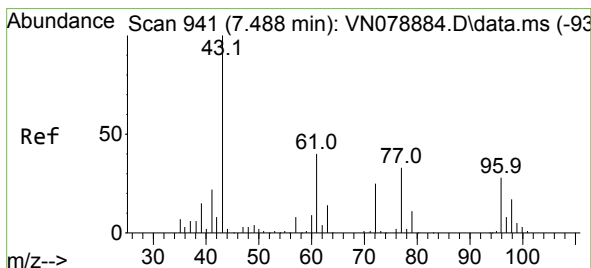
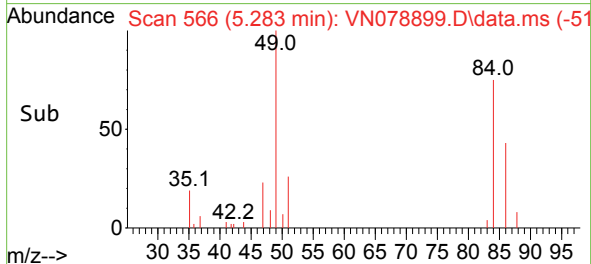
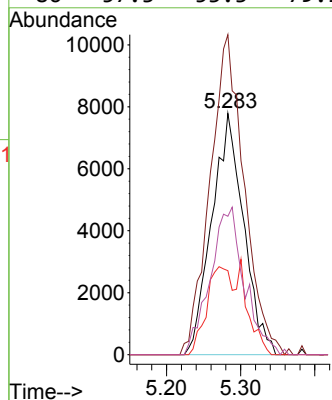


#20
Methylene Chloride
Concen: 11.429 ug/l
RT: 5.283 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN078899.D
Acq: 16 Aug 2023 13:40

Instrument :
MSVOA_N
ClientSampleId :
PB154855ZHE#02

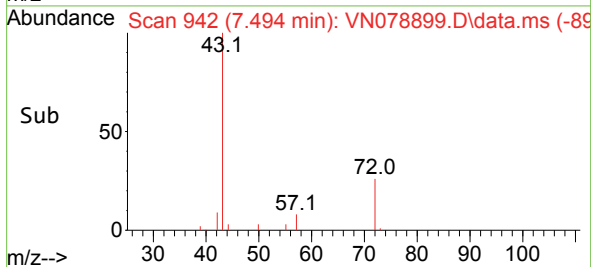
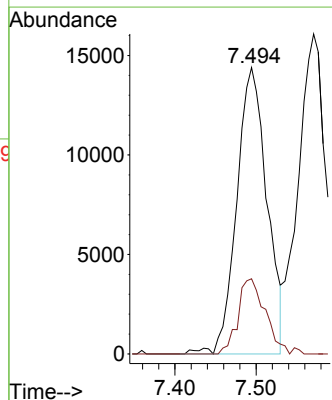
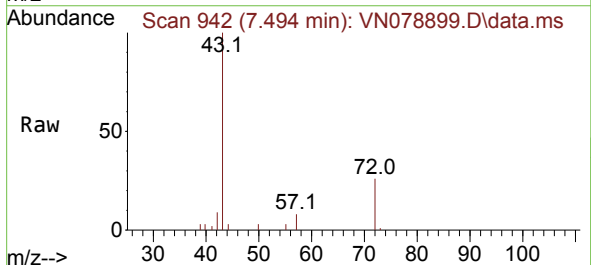


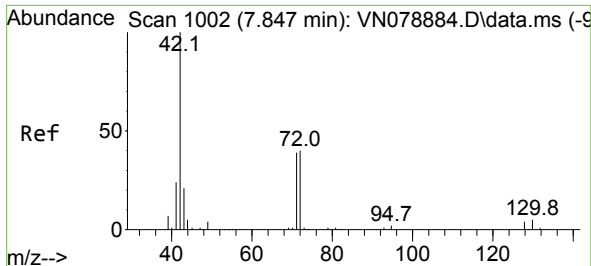
Tgt Ion:	84	Resp:	23287
Ion	Ratio	Lower	Upper
84	100		
49	132.6	79.7	119.5#
51	34.8	25.2	37.8
86	57.3	53.3	79.9



#25
2-Butanone
Concen: 24.266 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.000 min
Lab File: VN078899.D
Acq: 16 Aug 2023 13:40

Tgt Ion:	43	Resp:	37198
Ion	Ratio	Lower	Upper
43	100		
72	26.2	30.2	45.2#





#29

Tetrahydrofuran

Concen: 0.840 ug/l

RT: 7.865 min Scan# 1005

Delta R.T. 0.018 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

Instrument :

MSVOA_N

ClientSampleId :

PB154855ZHE#02

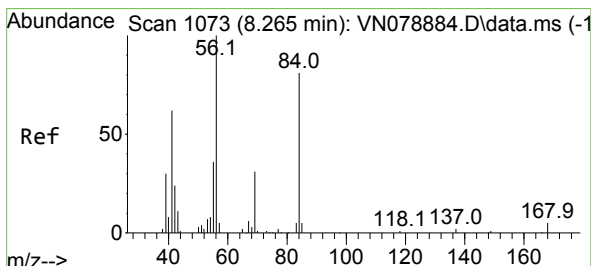
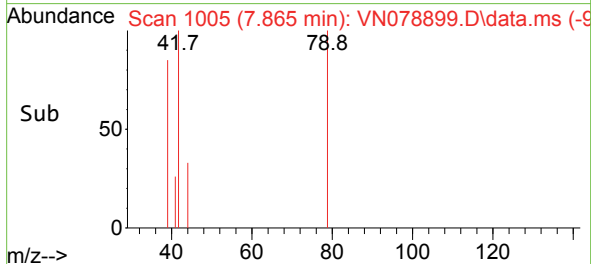
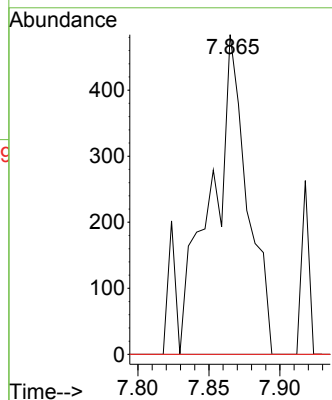
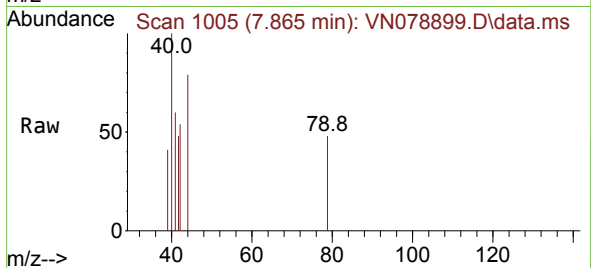
Tgt Ion: 42 Resp: 852

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: 8.230 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

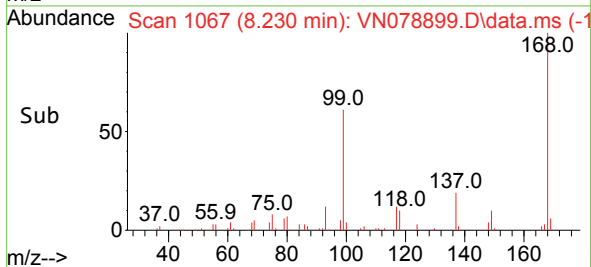
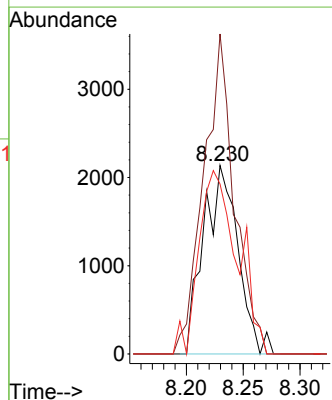
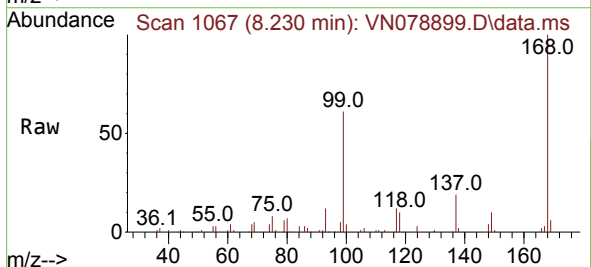
Tgt Ion: 56 Resp: 4500

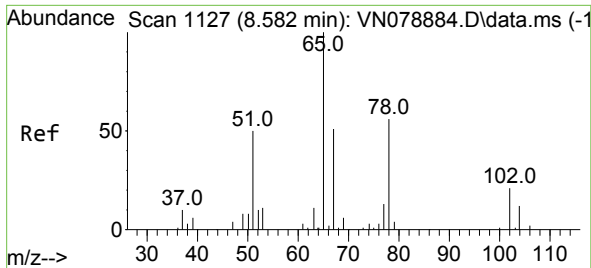
Ion Ratio Lower Upper

56 100

69 169.8 26.8 40.2#

84 90.2 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 54.346 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.001 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

Instrument :

MSVOA_N

ClientSampleId :

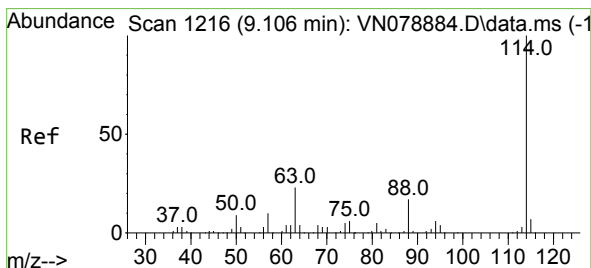
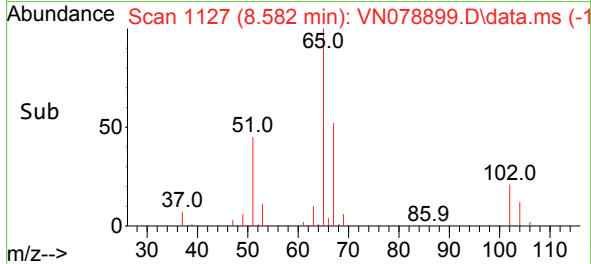
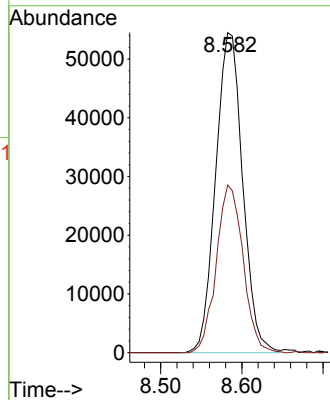
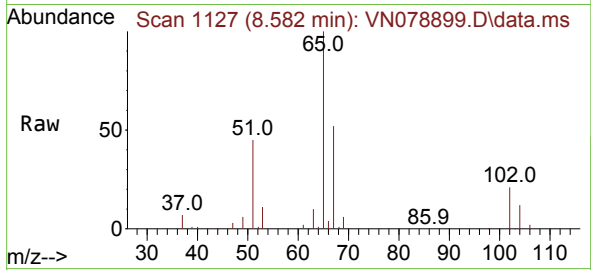
PB154855ZHE#02

Tgt Ion: 65 Resp: 125934

Ion Ratio Lower Upper

65 100

67 52.0 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.006 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

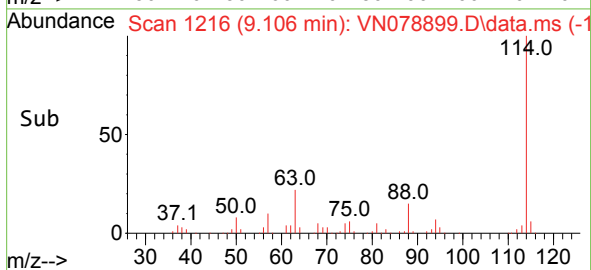
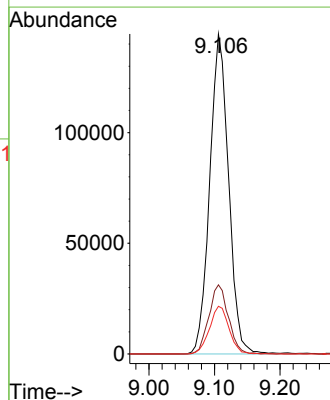
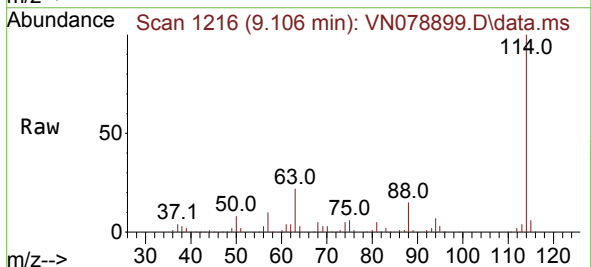
Tgt Ion: 114 Resp: 288702

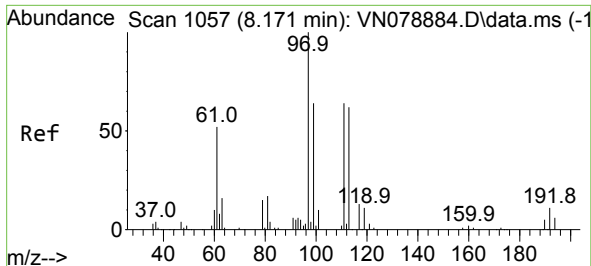
Ion Ratio Lower Upper

114 100

63 21.6 0.0 36.4

88 14.9 0.0 30.6





#35

Dibromofluoromethane

Concen: 51.485 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

Instrument :

MSVOA_N

ClientSampleId :

PB154855ZHE#02

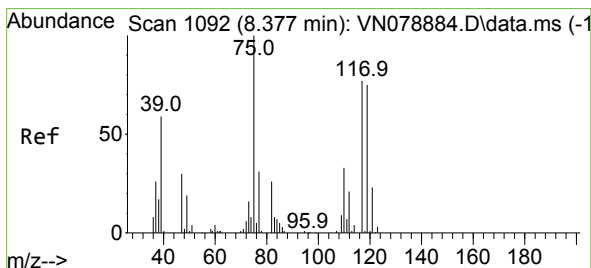
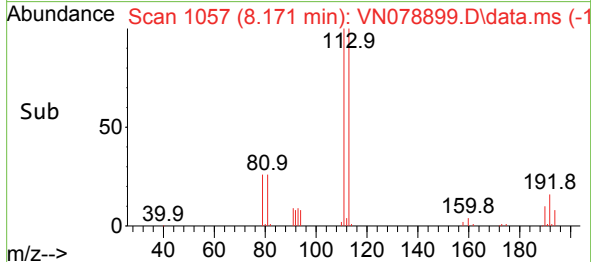
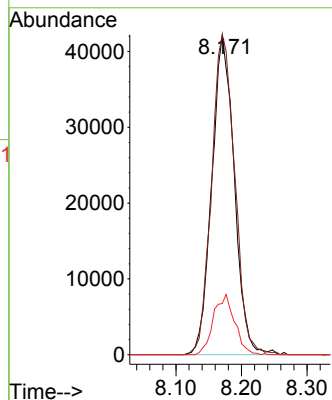
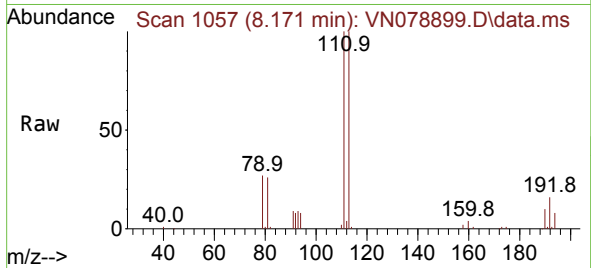
Tgt Ion:113 Resp: 100055

Ion Ratio Lower Upper

113 100

111 103.4 82.6 123.8

192 17.9 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.023 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

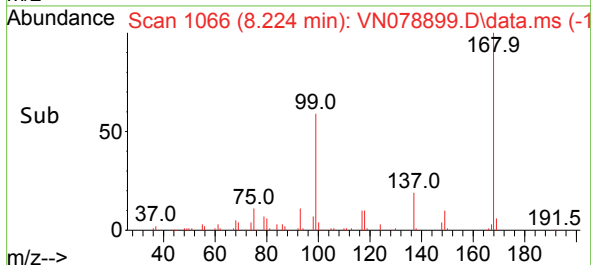
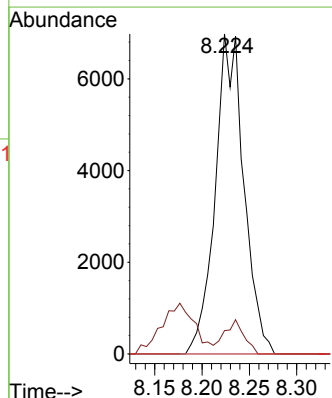
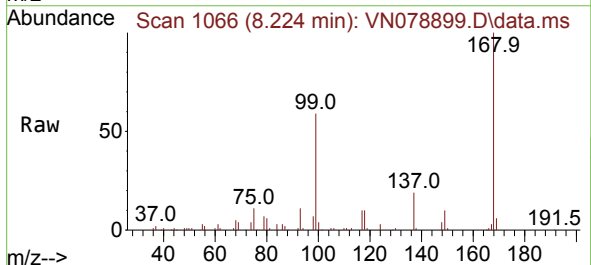
Tgt Ion: 75 Resp: 14684

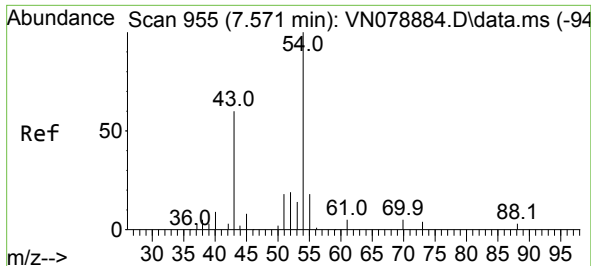
Ion Ratio Lower Upper

75 100

110 7.3 19.1 57.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 12.446 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

Instrument :

MSVOA_N

ClientSampleId :

PB154855ZHE#02

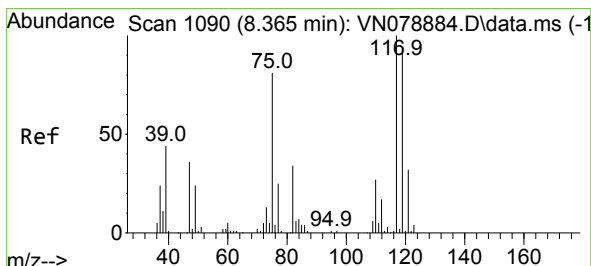
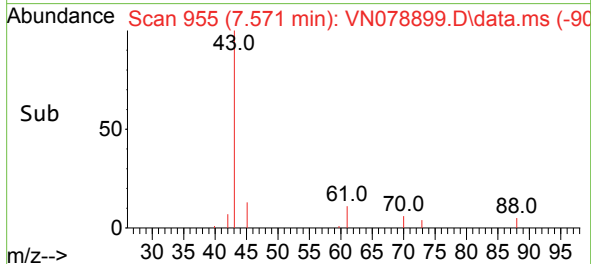
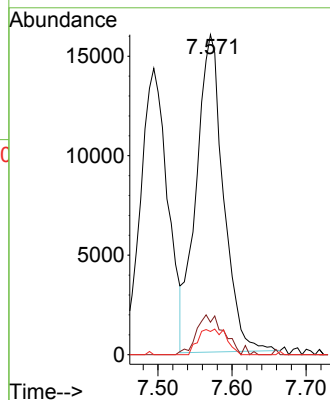
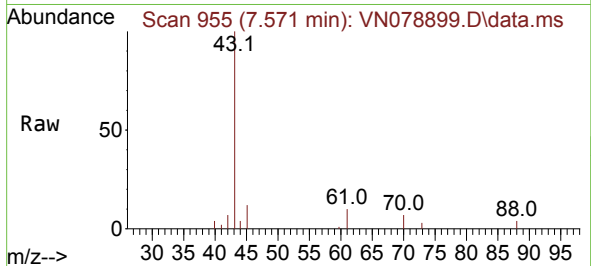
Tgt Ion: 43 Resp: 40709

Ion Ratio Lower Upper

43 100

61 12.4 13.2 19.8#

70 8.3 11.3 16.9#



#38

Carbon Tetrachloride

Concen: 5.510 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

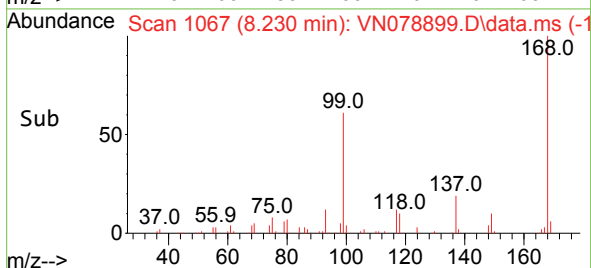
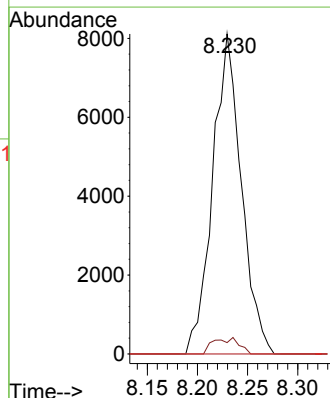
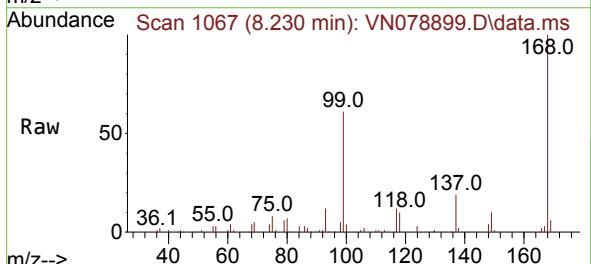
Tgt Ion: 117 Resp: 16140

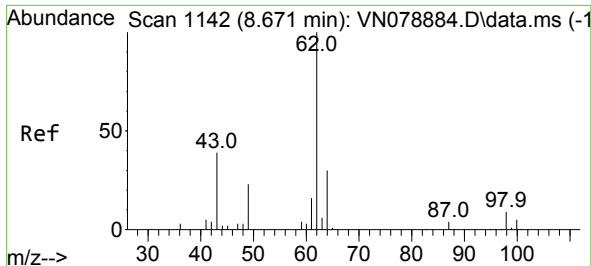
Ion Ratio Lower Upper

117 100

119 3.6 77.3 115.9#

121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.316 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.017 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

Instrument :

MSVOA_N

ClientSampleId :

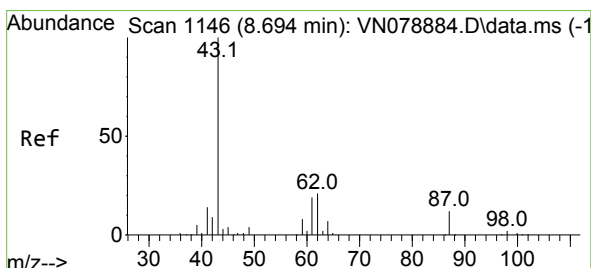
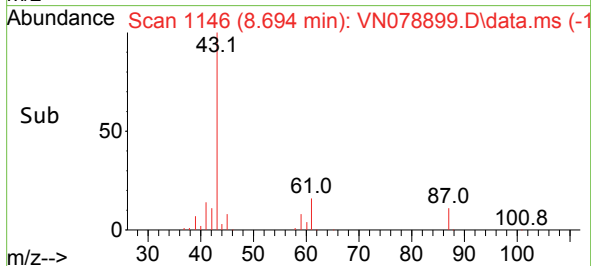
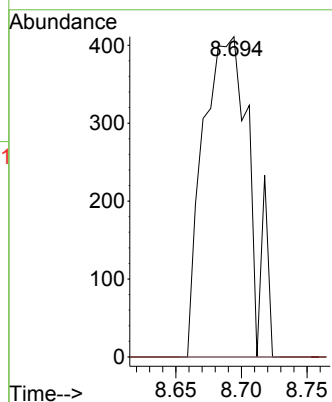
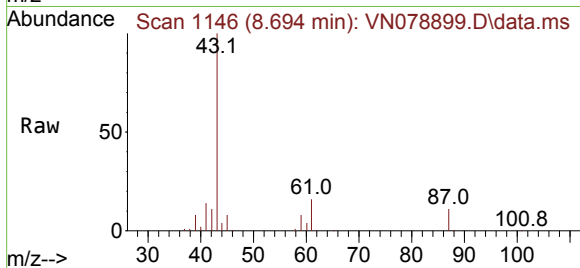
PB154855ZHE#02

Tgt Ion: 62 Resp: 1019

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 33.092 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

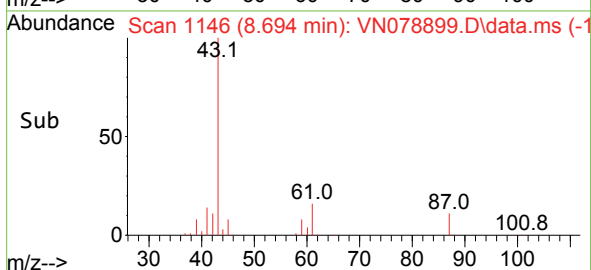
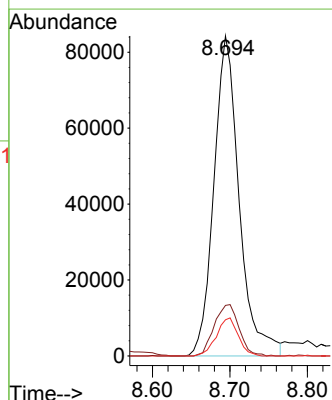
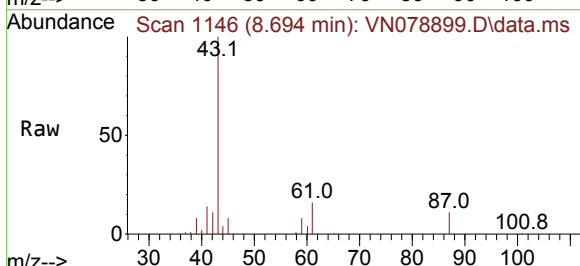
Tgt Ion: 43 Resp: 191312

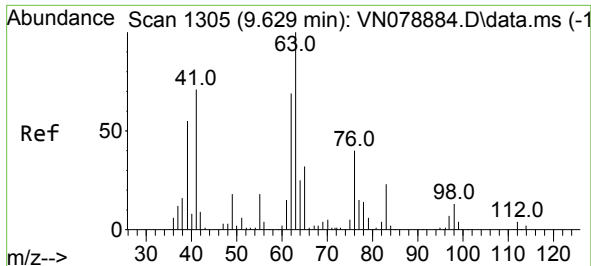
Ion Ratio Lower Upper

43 100

61 15.7 24.7 37.1#

87 10.2 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.680 ug/l

RT: 9.753 min Scan# 1326

Delta R.T. 0.129 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

Instrument :

MSVOA_N

ClientSampleId :

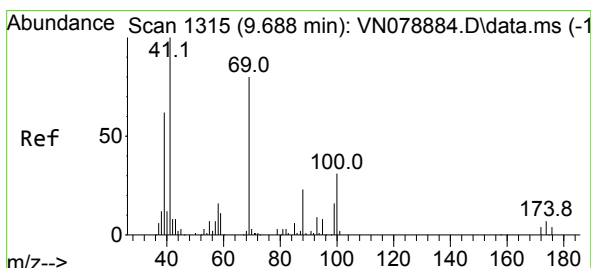
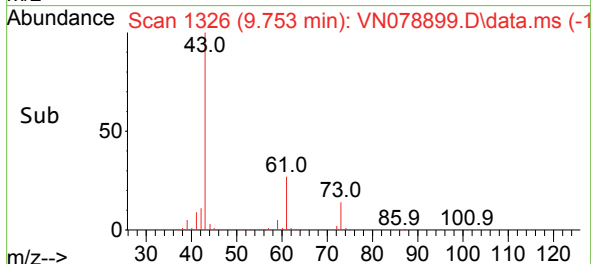
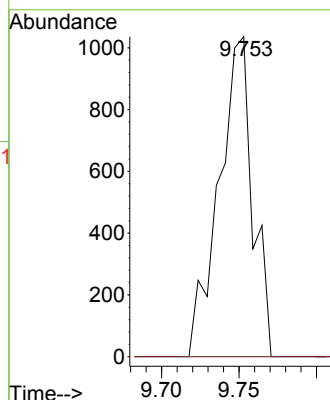
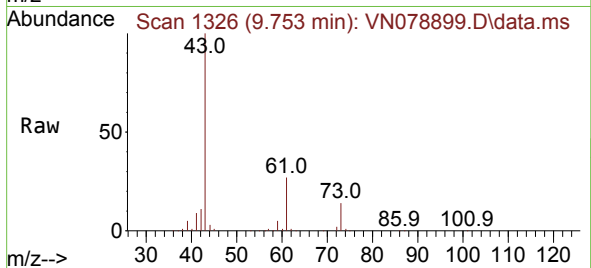
PB154855ZHE#02

Tgt Ion: 63 Resp: 1565

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 2.503 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. -0.006 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

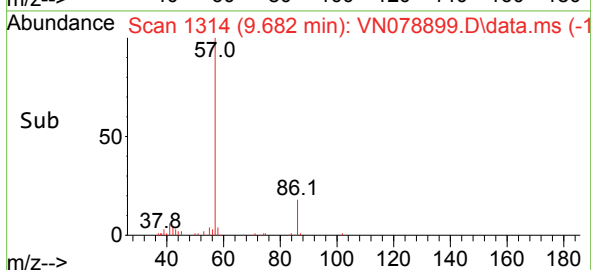
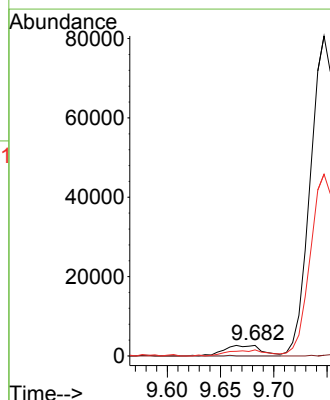
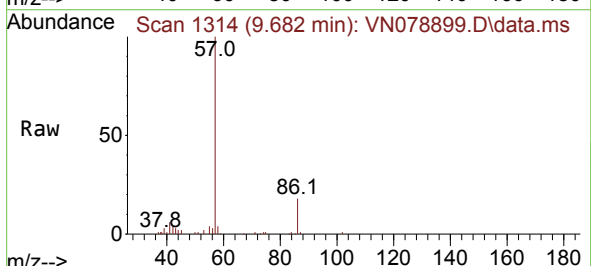
Tgt Ion: 41 Resp: 6558

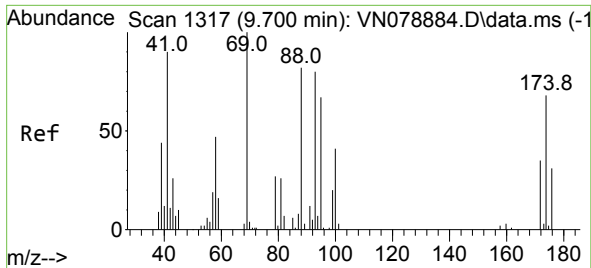
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 58.1 54.6 81.8





#49

1,4-Dioxane

Concen: 1.793 ug/l

RT: 9.765 min Scan# 11

Delta R.T. 0.065 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

Instrument :

MSVOA_N

ClientSampleId :

PB154855ZHE#02

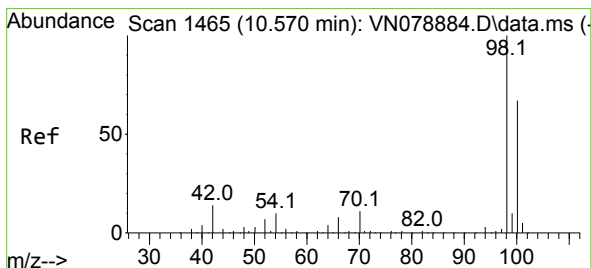
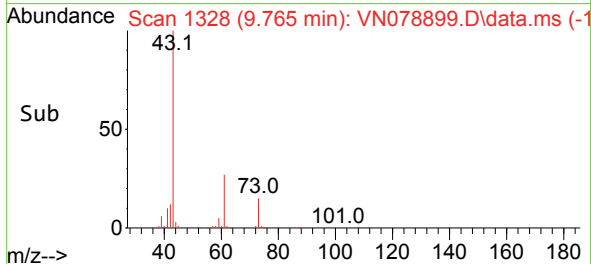
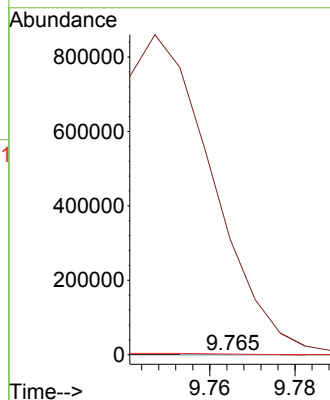
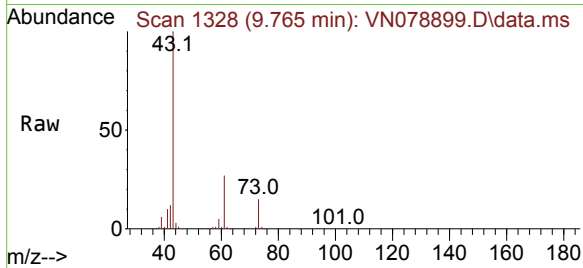
Tgt Ion: 88 Resp: 80

Ion Ratio Lower Upper

88 100

43 1949395.0 17.0 25.6#

58 9386.3 47.0 70.4#



#50

Toluene-d8

Concen: 53.324 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078899.D

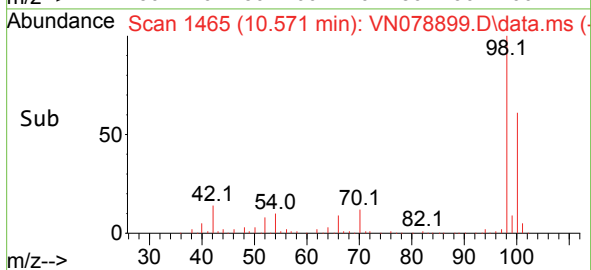
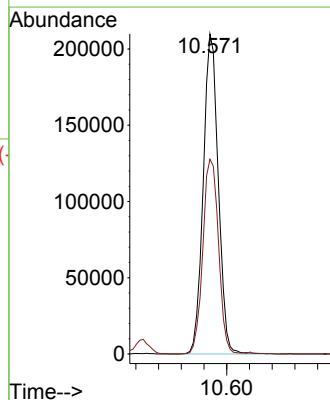
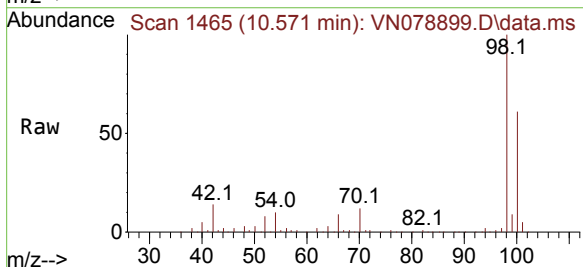
Acq: 16 Aug 2023 13:40

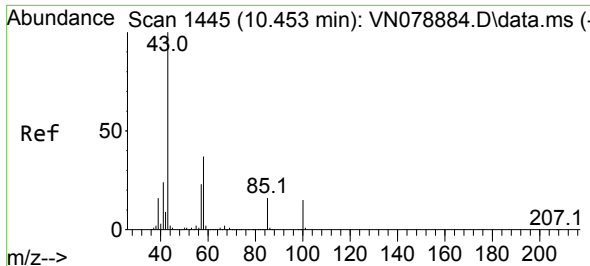
Tgt Ion: 98 Resp: 384787

Ion Ratio Lower Upper

98 100

100 63.4 52.0 78.0

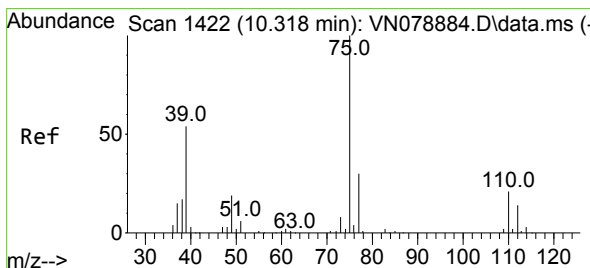
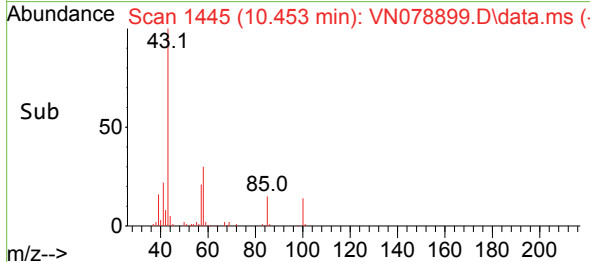
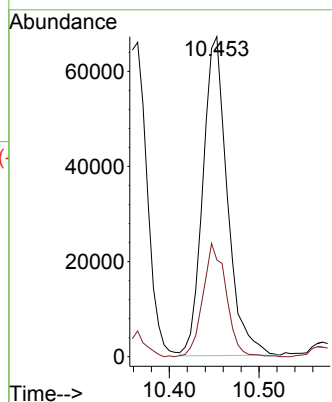
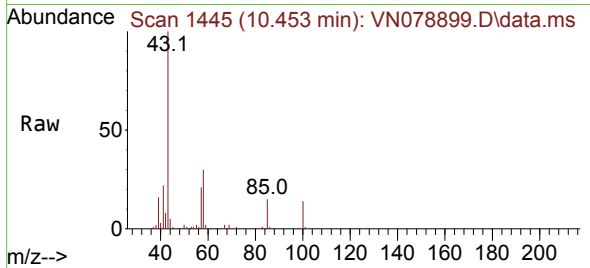




#51
4-Methyl-2-Pentanone
Concen: 37.101 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078899.D
Acq: 16 Aug 2023 13:40

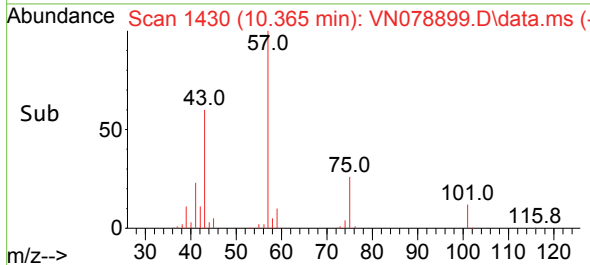
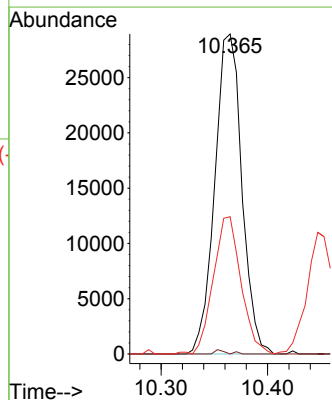
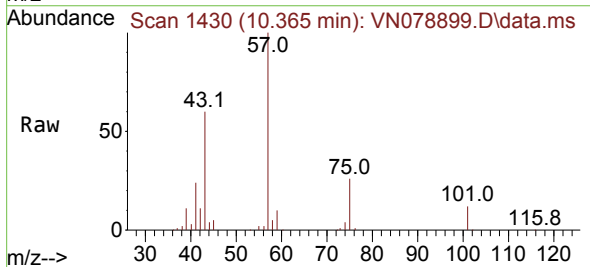
Instrument :
MSVOA_N
ClientSampleId :
PB154855ZHE#02

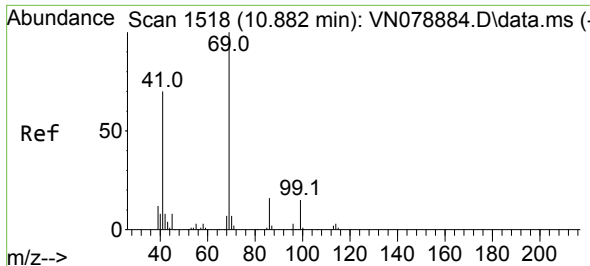
Tgt Ion: 43 Resp: 127214
Ion Ratio Lower Upper
43 100
58 33.8 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 14.026 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078899.D
Acq: 16 Aug 2023 13:40

Tgt Ion: 75 Resp: 51045
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 42.3 31.6 47.4

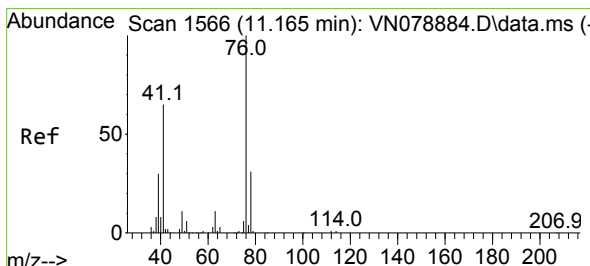
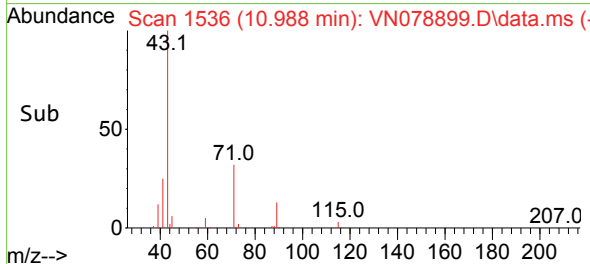
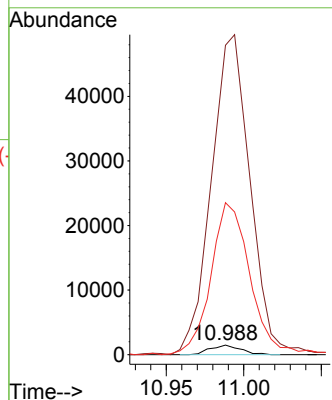
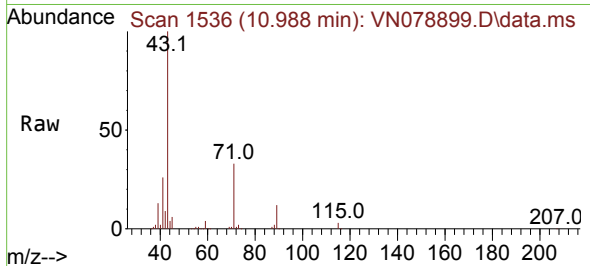




#56
 Ethyl methacrylate
 Concen: 0.617 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.111 min
 Lab File: VN078899.D
 Acq: 16 Aug 2023 13:40

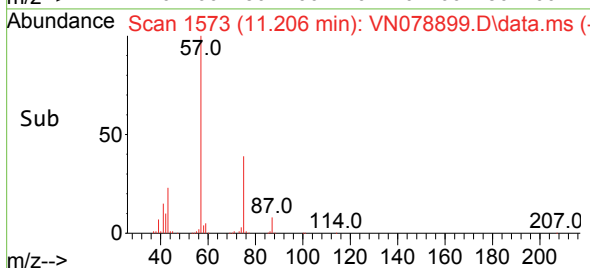
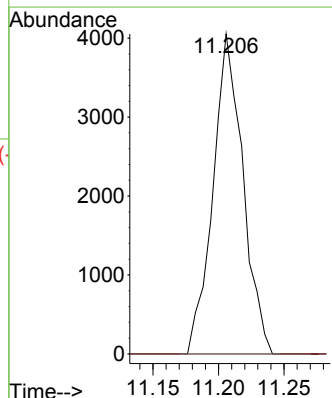
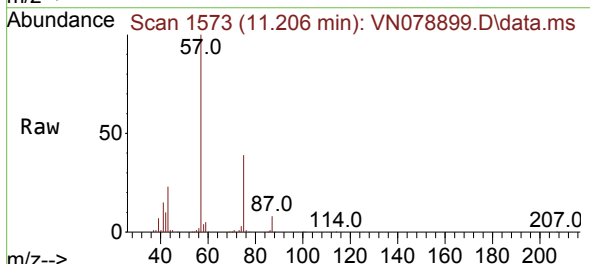
Instrument :
 MSVOA_N
 ClientSampleId :
 PB154855ZHE#02

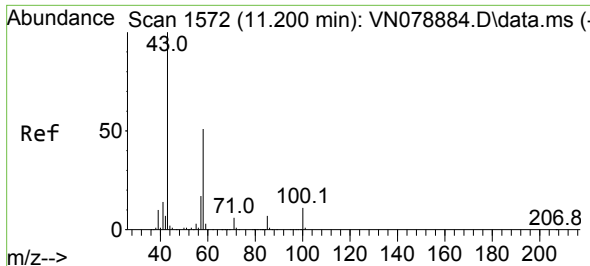
Tgt Ion: 69 Resp: 2036
 Ion Ratio Lower Upper
 69 100
 41 4243.5 39.6 59.4#
 39 2040.3 28.6 43.0#



#57
 1,3-Dichloropropane
 Concen: 1.691 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.041 min
 Lab File: VN078899.D
 Acq: 16 Aug 2023 13:40

Tgt Ion: 76 Resp: 6433
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

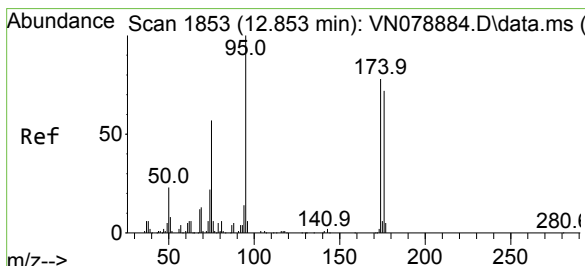
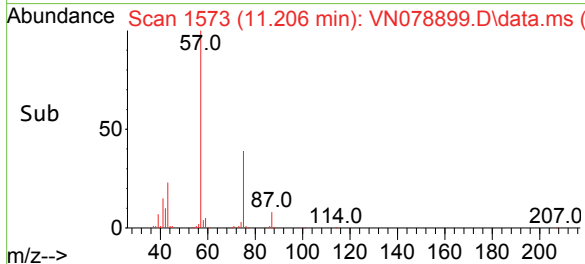
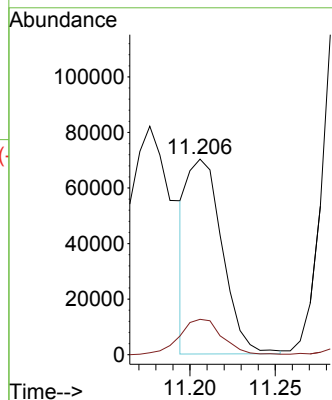
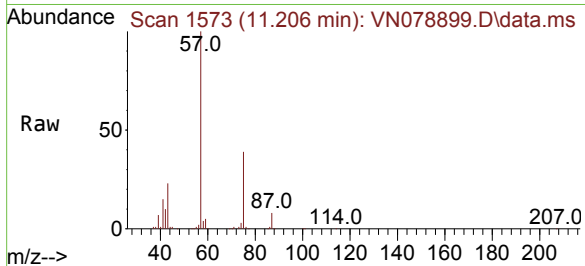




#59
2-Hexanone
Concen: 40.215 ug/l
RT: 11.206 min Scan# 1157
Delta R.T. 0.006 min
Lab File: VN078899.D
Acq: 16 Aug 2023 13:40

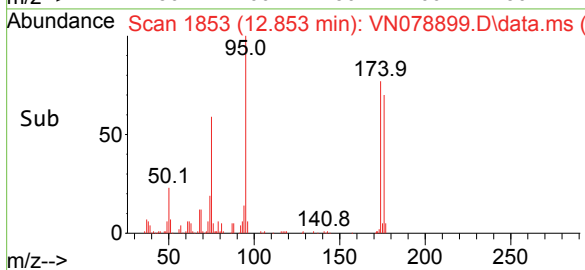
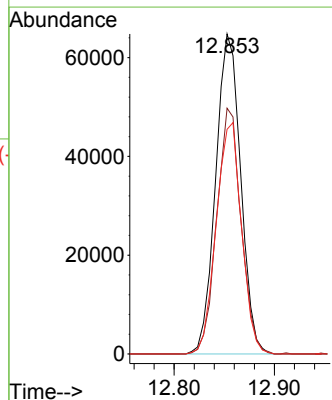
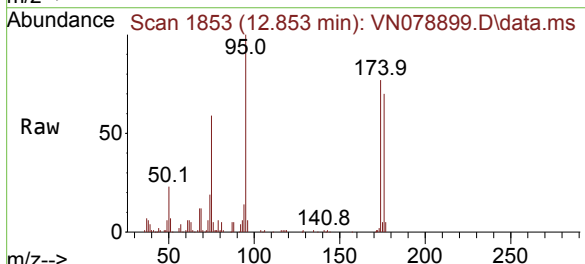
Instrument :
MSVOA_N
ClientSampleId :
PB154855ZHE#02

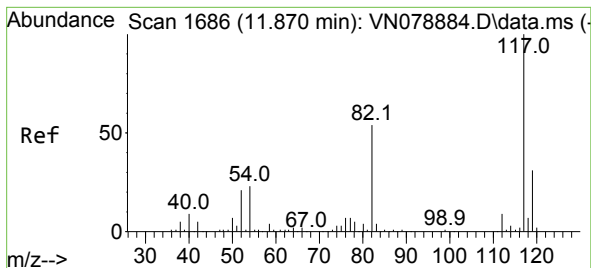
Tgt Ion: 43 Resp: 99874
Ion Ratio Lower Upper
43 100
58 22.4 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 47.476 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078899.D
Acq: 16 Aug 2023 13:40

Tgt Ion: 95 Resp: 111977
Ion Ratio Lower Upper
95 100
174 74.9 0.0 143.8
176 73.2 0.0 135.8

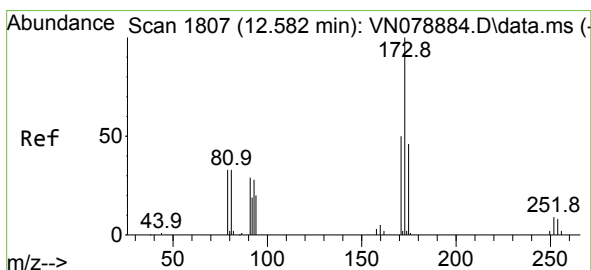
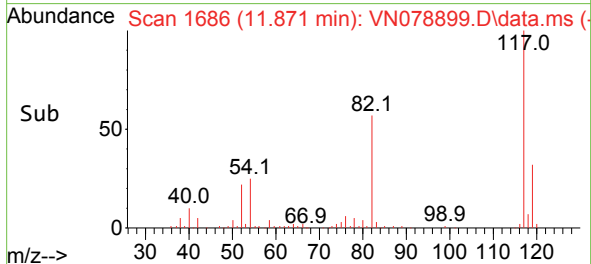
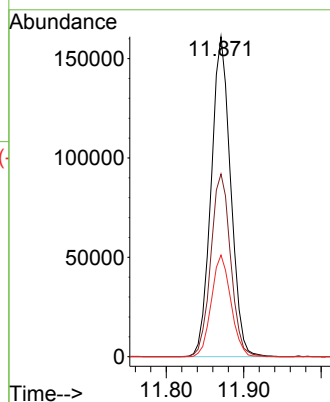
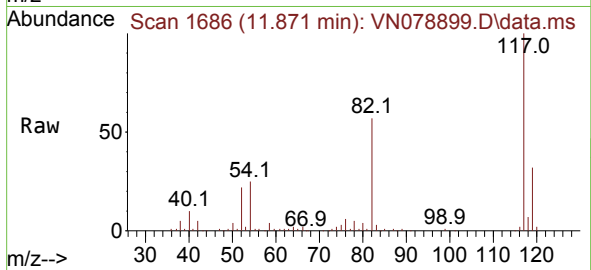




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. -0.001 min
Lab File: VN078899.D
Acq: 16 Aug 2023 13:40

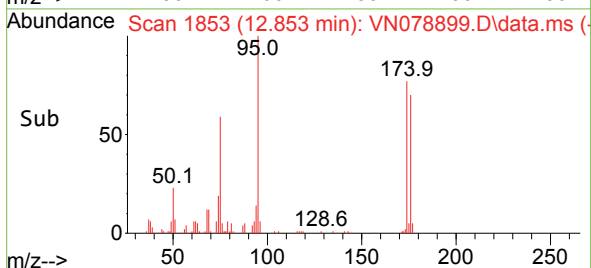
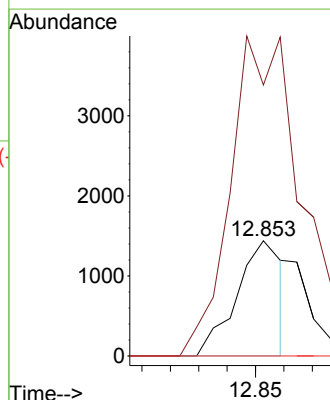
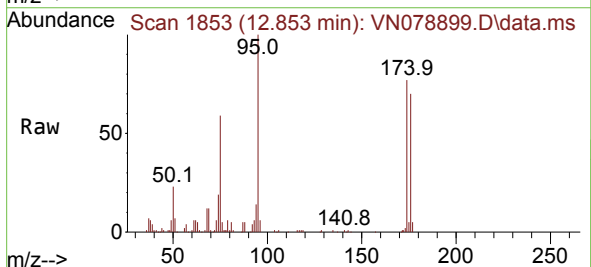
Instrument :
MSVOA_N
ClientSampleId :
PB154855ZHE#02

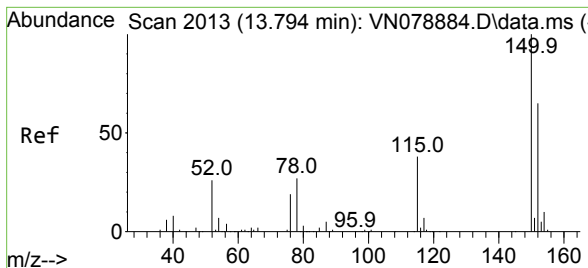
Tgt Ion:117 Resp: 282270
Ion Ratio Lower Upper
117 100
82 57.1 44.0 66.0
119 31.8 25.6 38.4



#71
Bromoform
Concen: 0.981 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN078899.D
Acq: 16 Aug 2023 13:40

Tgt Ion:173 Resp: 1620
Ion Ratio Lower Upper
173 100
175 229.1 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# 2013

Delta R.T. 0.006 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

Instrument :

MSVOA_N

ClientSampleId :

PB154855ZHE#02

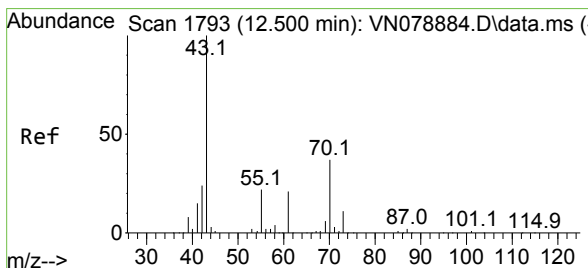
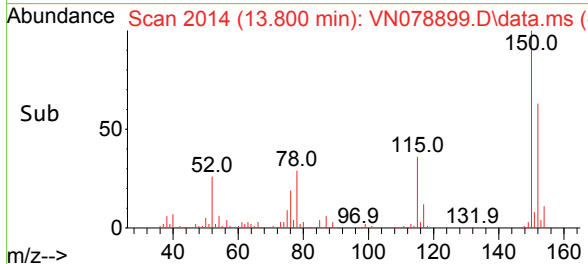
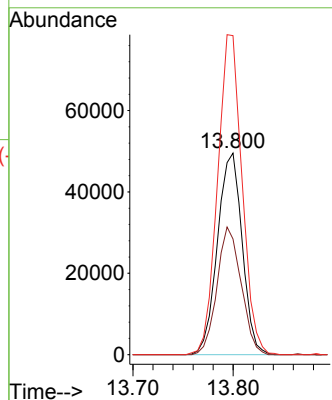
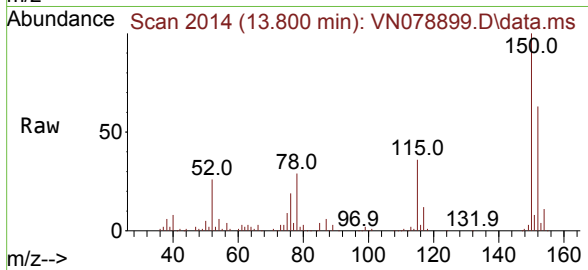
Tgt Ion:152 Resp: 84686

Ion Ratio Lower Upper

152 100

115 61.7 32.3 96.8

150 157.2 0.0 355.8



#74

N-ethyl acetate

Concen: 0.799 ug/l

RT: 12.459 min Scan# 1786

Delta R.T. -0.041 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

Tgt Ion: 43 Resp: 2849

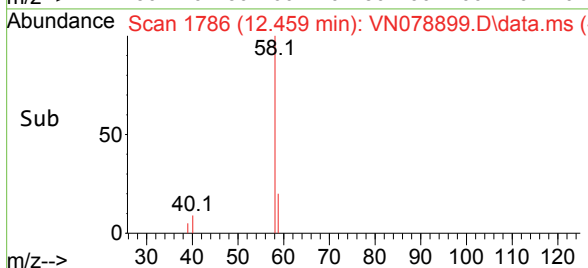
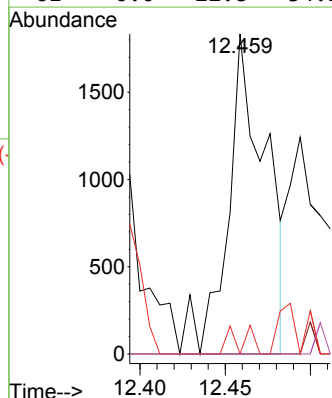
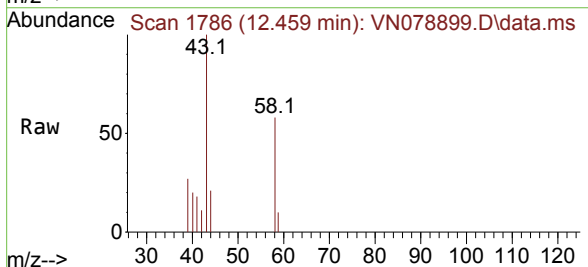
Ion Ratio Lower Upper

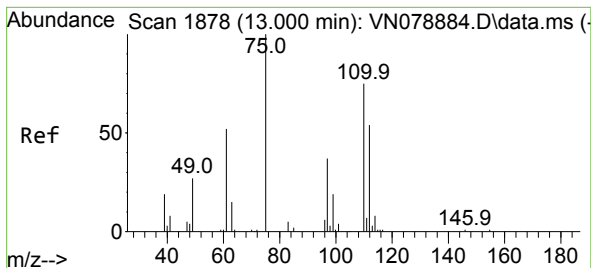
43 100

70 0.0 43.4 65.2#

55 4.0 21.4 32.0#

61 0.0 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 31.141 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

Instrument :

MSVOA_N

ClientSampleId :

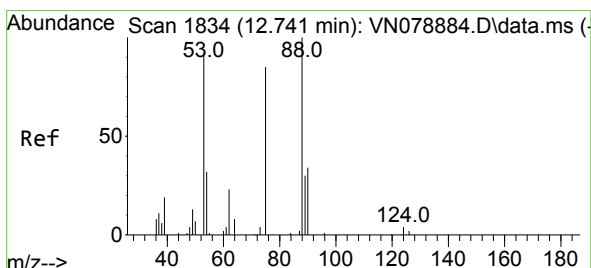
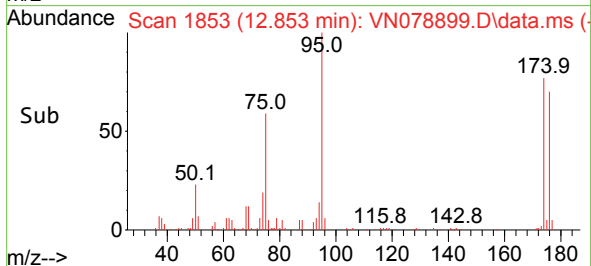
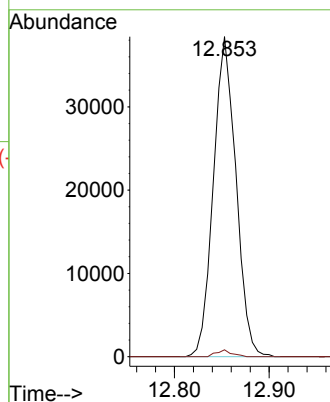
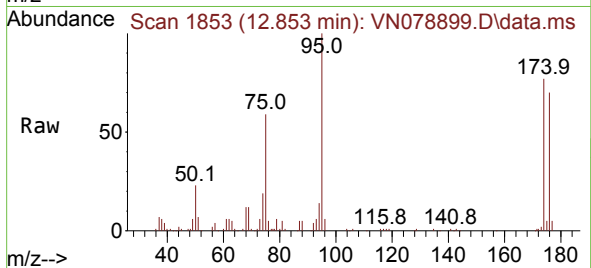
PB154855ZHE#02

Tgt Ion: 75 Resp: 63544

Ion Ratio Lower Upper

75 100

77 1.4 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 79.552 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078899.D

Acq: 16 Aug 2023 13:40

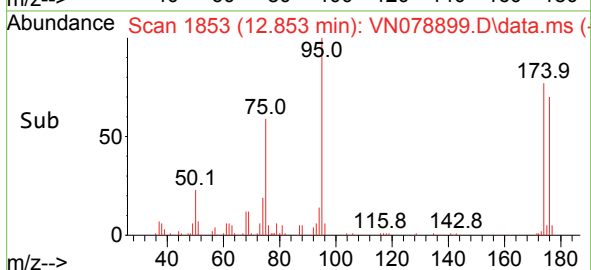
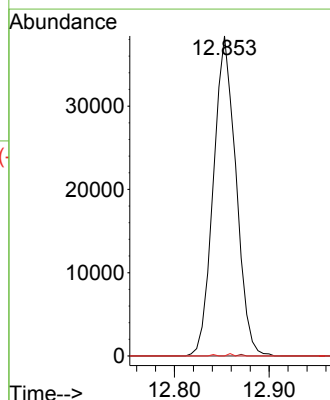
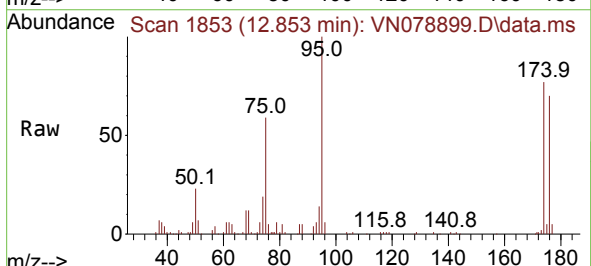
Tgt Ion: 75 Resp: 63544

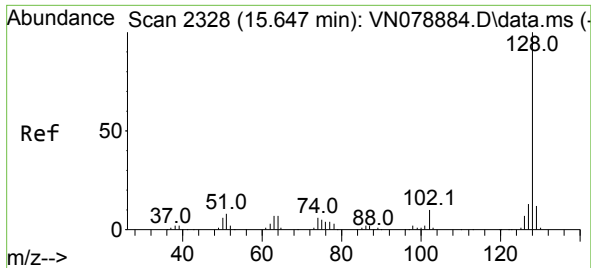
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

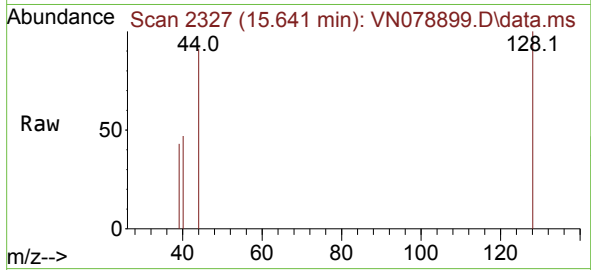
89 0.2 38.8 58.2#





#95
Naphthalene
Concen: 2.667 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN078899.D
Acq: 16 Aug 2023 13:40

Instrument :
MSVOA_N
ClientSampleId :
PB154855ZHE#02



Tgt Ion:128 Resp: 379
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

