

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032724\
 Data File : VN081589.D
 Acq On : 27 Mar 2024 16:45
 Operator : JC\MD
 Sample : PB159779ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB159779ZHE#05

Quant Time: Mar 28 01:29:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031824W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 19 06:00:00 2024
 Response via : Initial Calibration

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

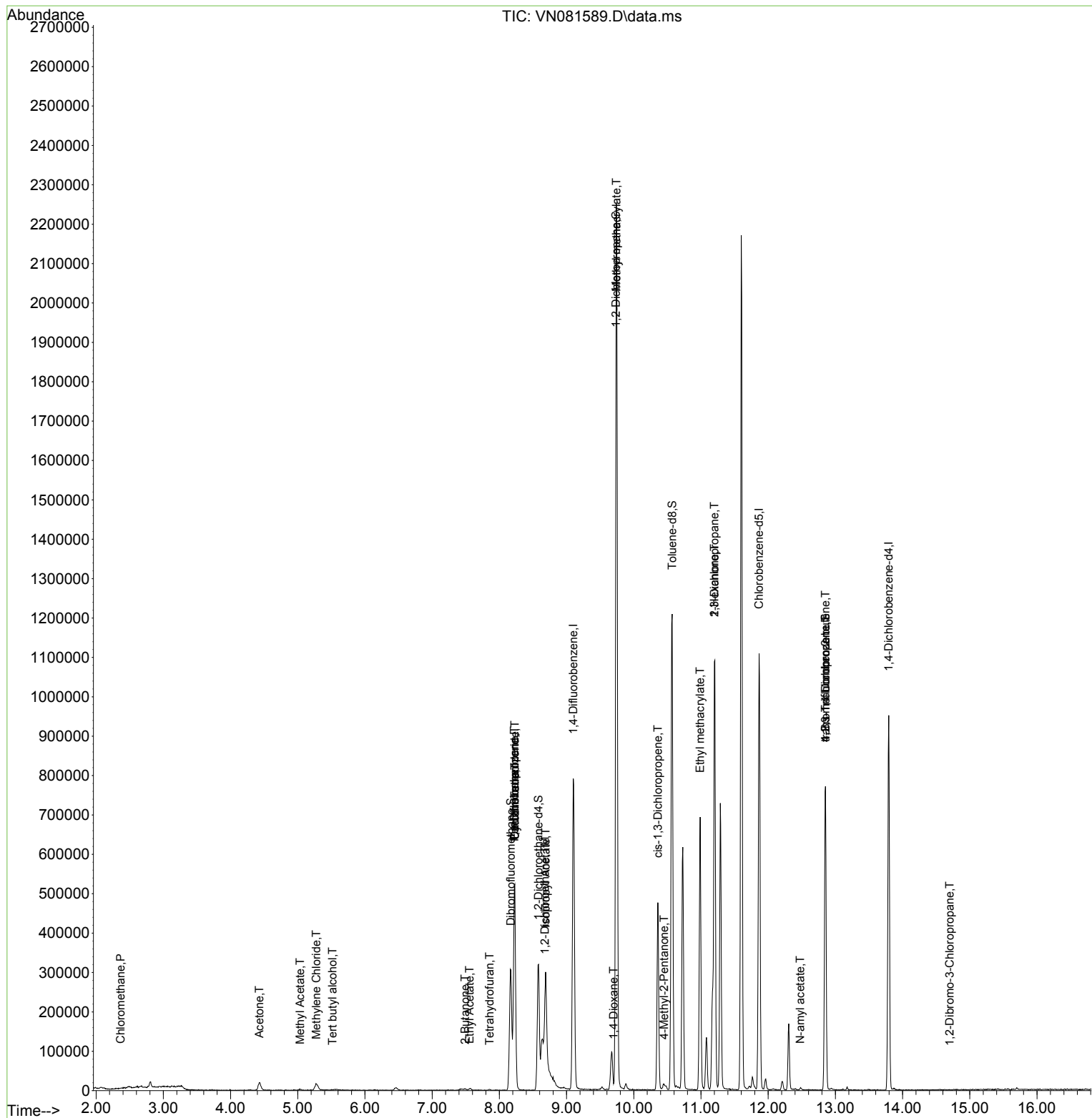
Internal Standards						
1) Pentafluorobenzene	8.224	168	368314	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.100	114	705148	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	662816	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	253465	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	261377	55.648	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.300%			
35) Dibromofluoromethane	8.171	113	222580	50.016	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.040%			
50) Toluene-d8	10.571	98	845741	52.573	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.140%			
62) 4-Bromofluorobenzene	12.853	95	270750	47.765	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 95.520%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	1125	0.228	ug/l	# 43
11) Tert butyl alcohol	5.518	59	367	0.448	ug/l	# 72
16) Acetone	4.430	43	36086	23.773	ug/l	89
18) Methyl Acetate	5.036	43	4135	0.884	ug/l	# 89
20) Methylene Chloride	5.277	84	13577	2.731	ug/l	# 75
25) 2-Butanone	7.488	43	6783	2.605	ug/l	93
29) Tetrahydrofuran	7.853	42	996	0.568	ug/l	# 71
31) Cyclohexane	8.230	56	8057	1.054	ug/l	# 1
36) 1,1-Dichloropropene	8.224	75	32218	4.302	ug/l	# 51
37) Ethyl Acetate	7.559	43	6785	1.058	ug/l	# 95
38) Carbon Tetrachloride	8.230	117	40981	4.995	ug/l	# 19
42) 1,2-Dichloroethane	8.677	62	2376	0.308	ug/l	# 75
43) Isopropyl Acetate	8.688	43	312842	29.430	ug/l	# 89
45) 1,2-Dichloropropane	9.735	63	2887	0.544	ug/l	# 42
48) Methyl methacrylate	9.741	41	200710	40.936	ug/l	# 48
49) 1,4-Dioxane	9.700	88	102	0.866	ug/l	# 18
51) 4-Methyl-2-Pentanone	10.453	43	8488	1.309	ug/l	92
54) cis-1,3-Dichloropropene	10.359	75	86550	9.488	ug/l	# 60
56) Ethyl methacrylate	10.988	69	3586	1.043	ug/l	# 1
57) 1,3-Dichloropropane	11.200	76	10896	1.187	ug/l	# 43
59) 2-Hexanone	11.200	43	132718	27.674	ug/l	# 59
74) N-amyl acetate	12.476	43	2261	0.289	ug/l	# 49
76) 1,2,3-Trichloropropane	12.853	75	144271	23.795	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.853	75	144271	64.303	ug/l	# 14
92) 1,2-Dibromo-3-Chloropr...	14.700	75	308	0.228	ug/l	# 13

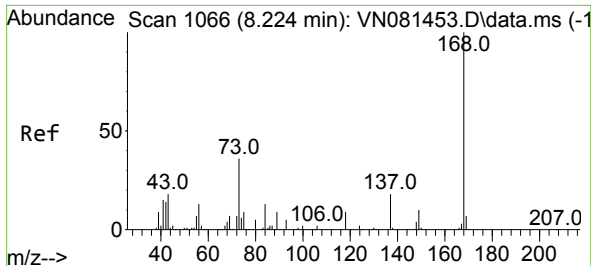
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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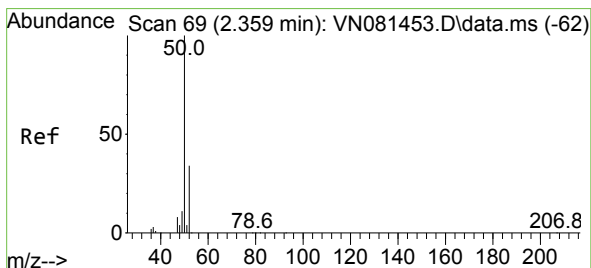
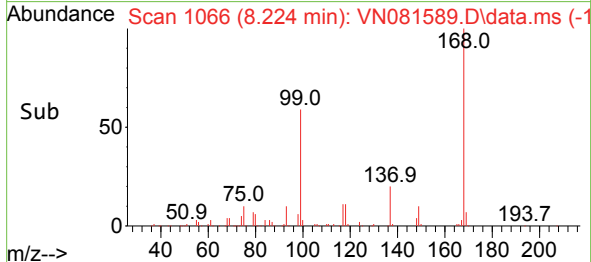
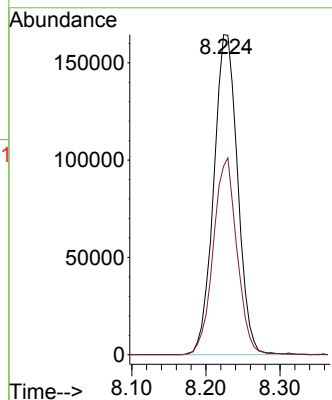
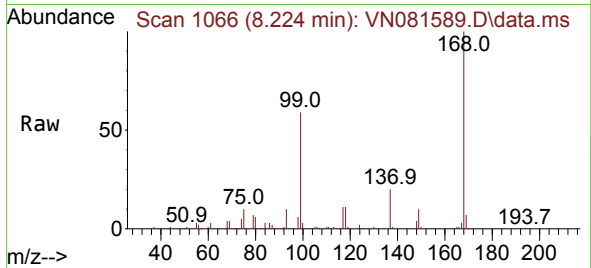




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

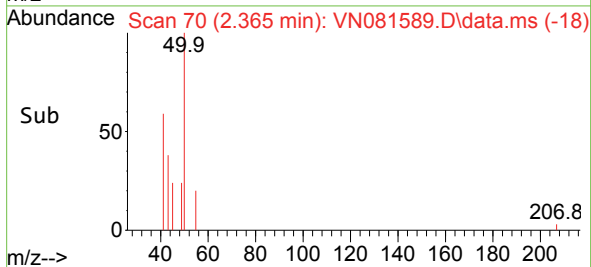
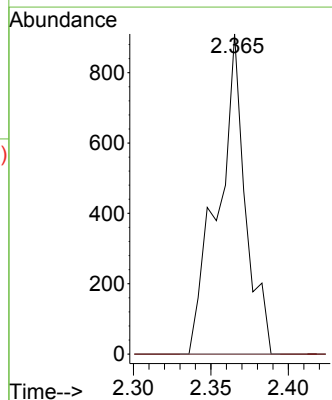
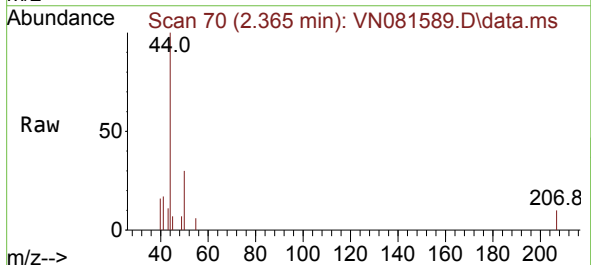
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#05

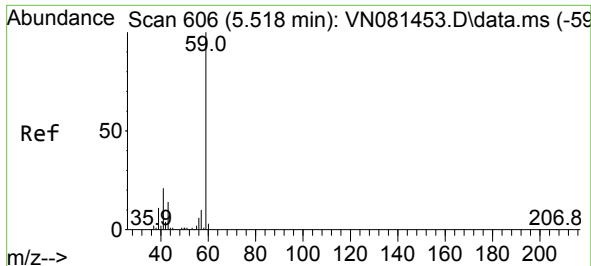
Tgt Ion:168 Resp: 368314
Ion Ratio Lower Upper
168 100
99 59.0 59.9 89.9#



#3
Chloromethane
Concen: 0.228 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

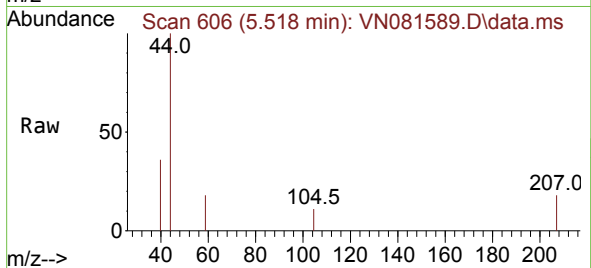
Tgt Ion: 50 Resp: 1125
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#



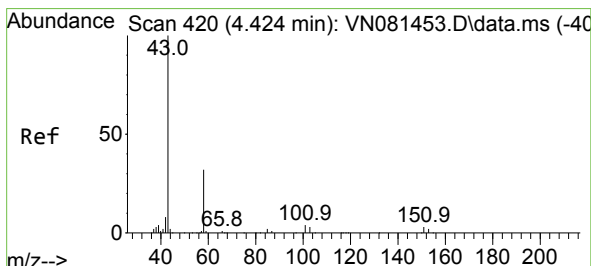
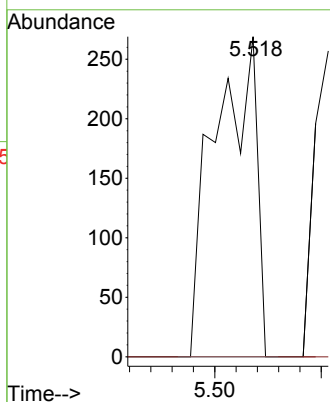
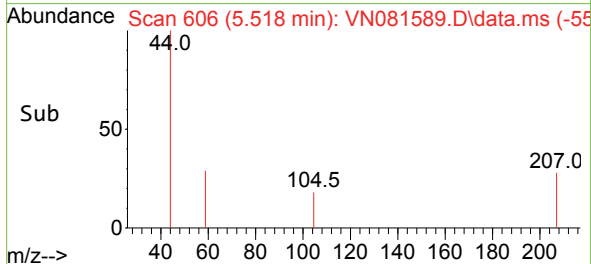


#11
Tert butyl alcohol
Concen: 0.448 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

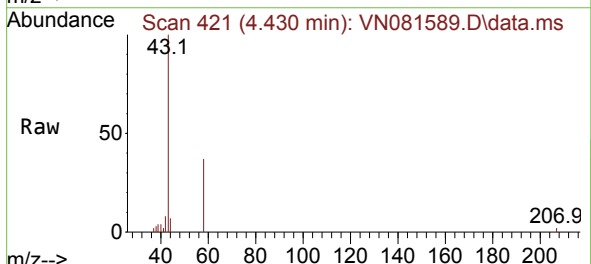
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#05



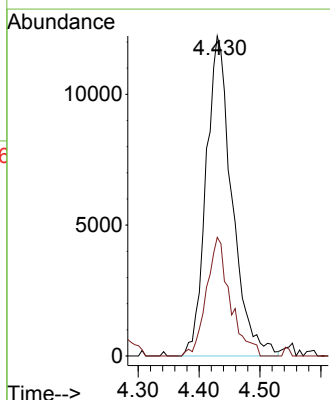
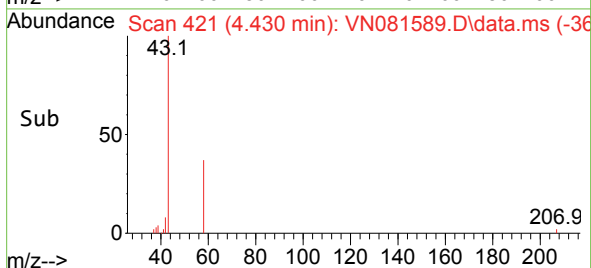
Tgt Ion: 59 Resp: 367
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

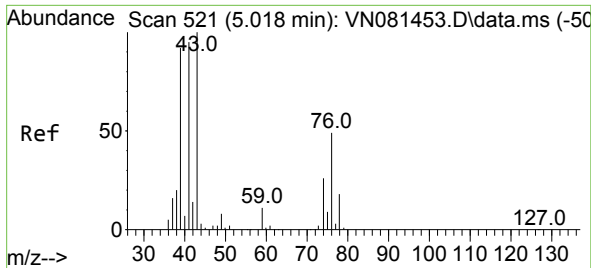


#16
Acetone
Concen: 23.773 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45



Tgt Ion: 43 Resp: 36086
Ion Ratio Lower Upper
43 100
58 37.0 24.8 37.2

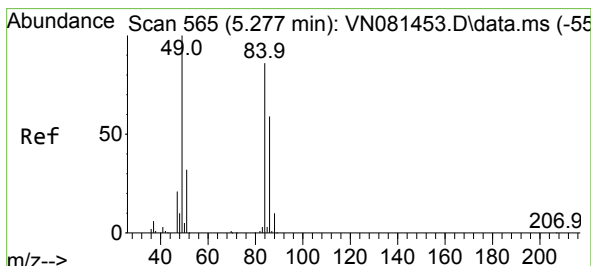
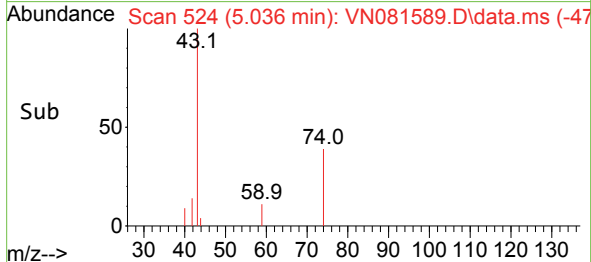
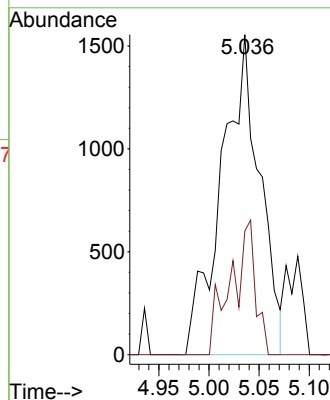
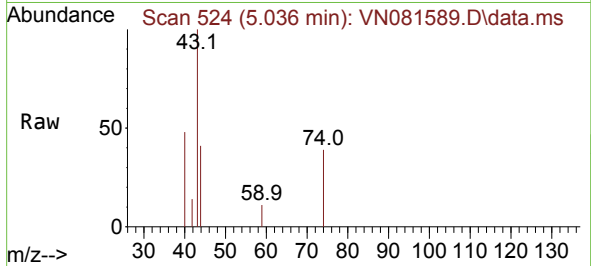




#18
Methyl Acetate
Concen: 0.884 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

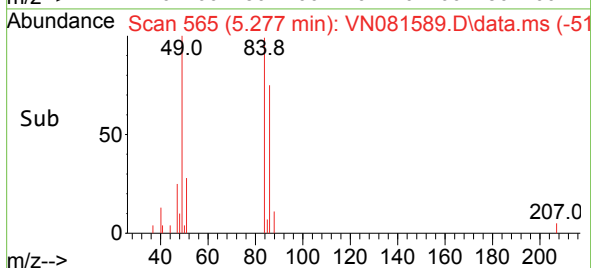
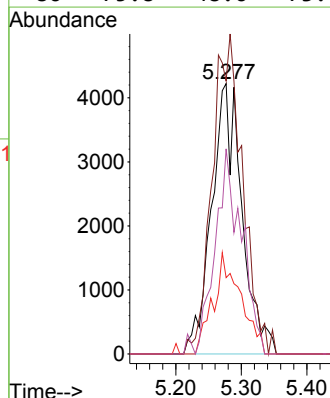
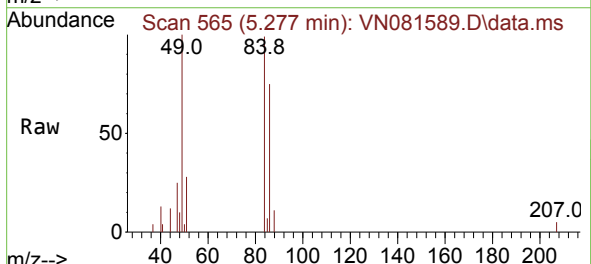
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#05

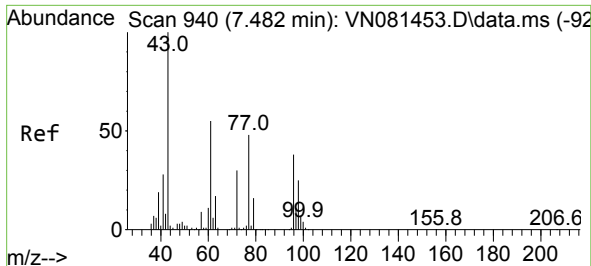
Tgt Ion: 43 Resp: 4135
Ion Ratio Lower Upper
43 100
74 26.9 17.3 25.9#



#20
Methylene Chloride
Concen: 2.731 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

Tgt Ion: 84 Resp: 13577
Ion Ratio Lower Upper
84 100
49 100.9 108.1 162.1#
51 28.2 32.9 49.3#
86 75.8 48.6 73.0#

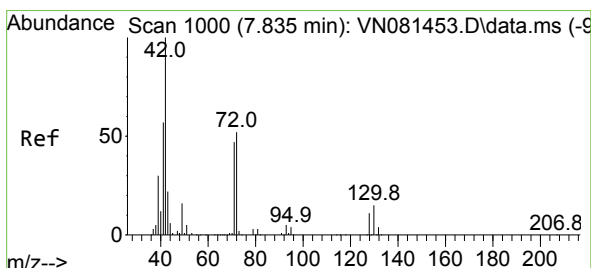
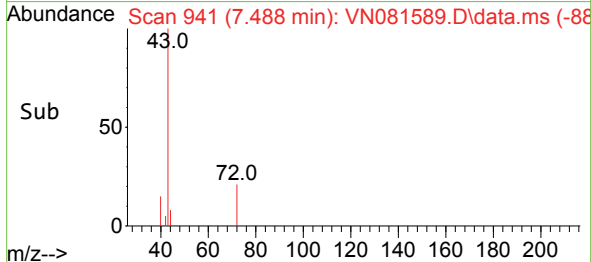
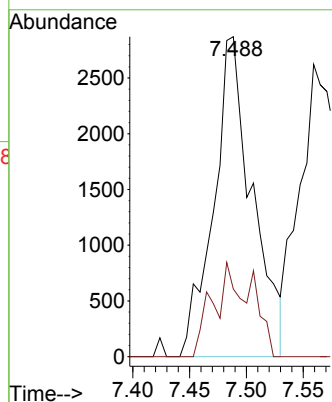
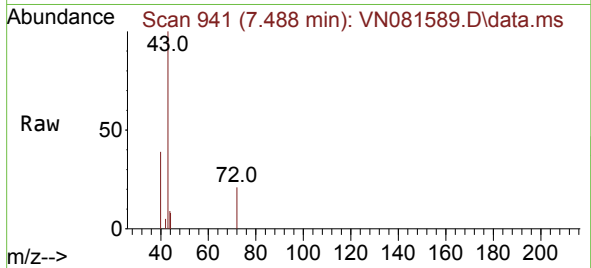




#25
2-Butanone
Concen: 2.605 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

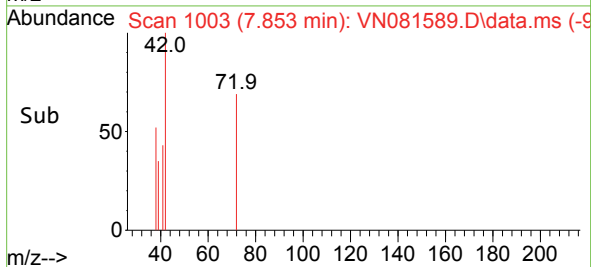
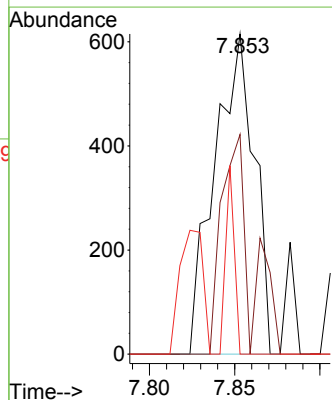
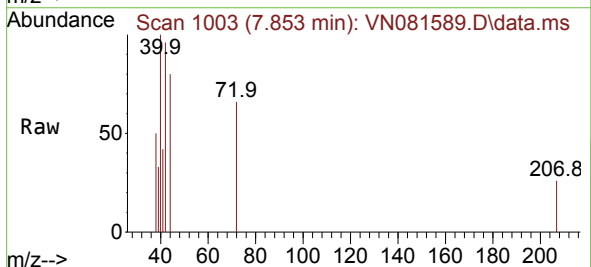
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#05

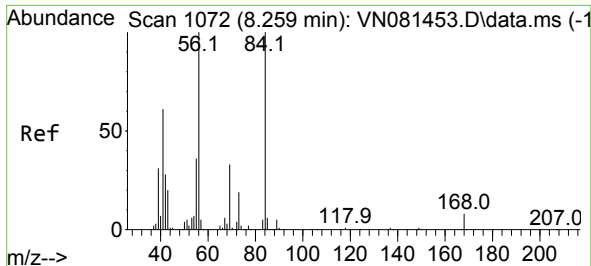
Tgt Ion: 43 Resp: 6783
Ion Ratio Lower Upper
43 100
72 21.1 19.5 29.3



#29
Tetrahydrofuran
Concen: 0.568 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.018 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

Tgt Ion: 42 Resp: 996
Ion Ratio Lower Upper
42 100
72 51.5 31.1 46.7#
71 12.9 28.3 42.5#

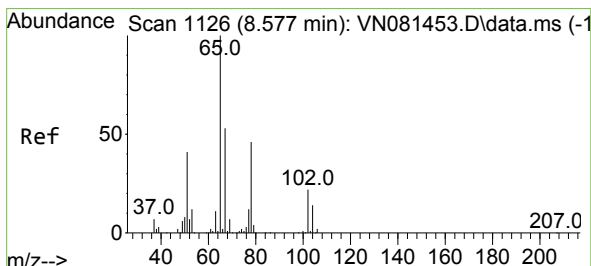
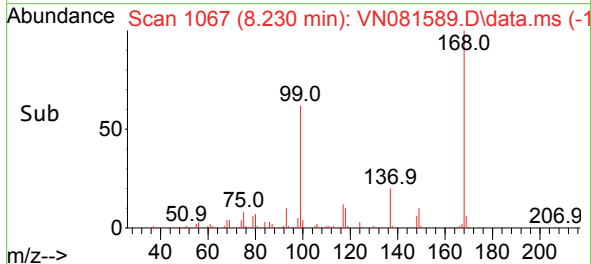
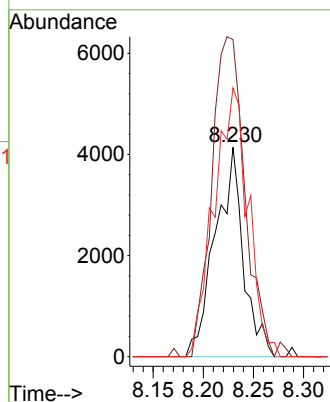
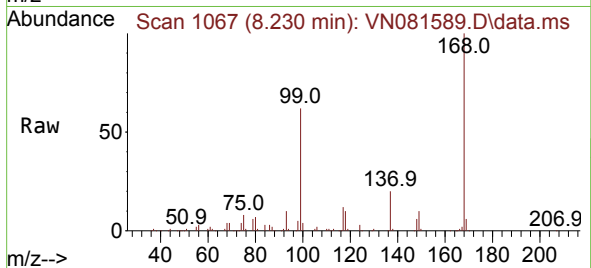




#31
Cyclohexane
Concen: 1.054 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

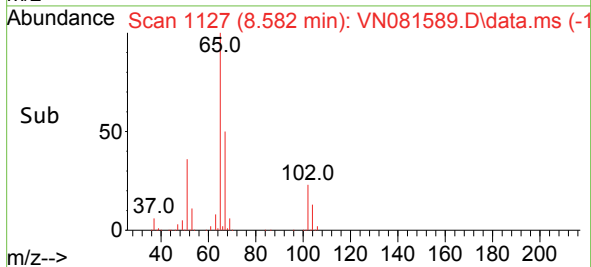
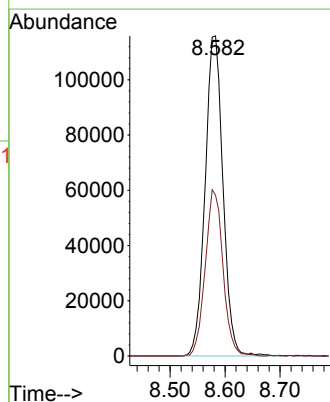
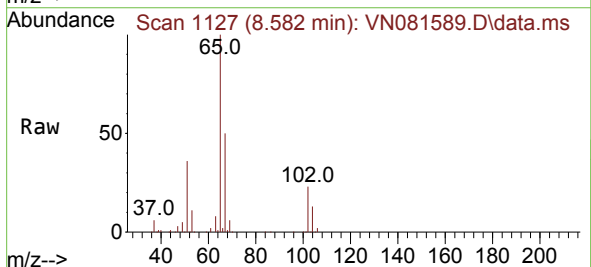
Instrument :
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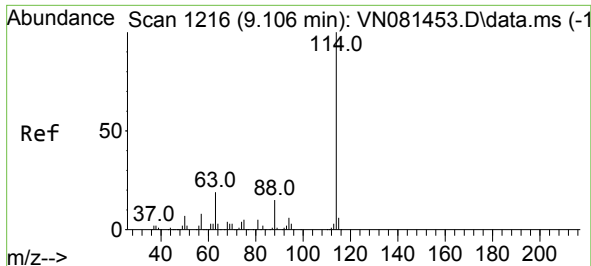
Tgt Ion: 56 Resp: 8057
Ion Ratio Lower Upper
56 100
69 151.4 20.1 30.1#
84 128.3 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 55.648 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

Tgt Ion: 65 Resp: 261377
Ion Ratio Lower Upper
65 100
67 51.7 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN081589.D

Acq: 27 Mar 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

PB159779ZHE#05

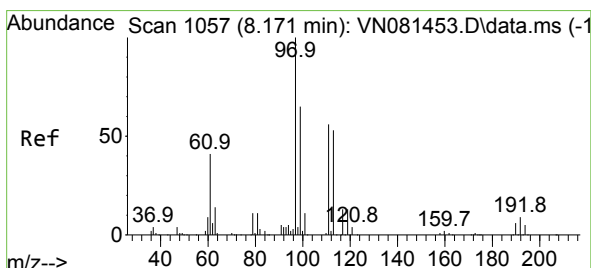
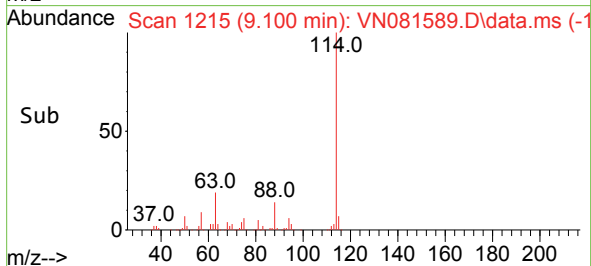
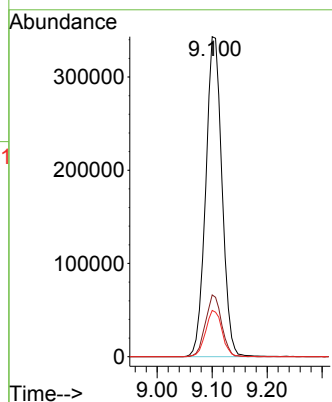
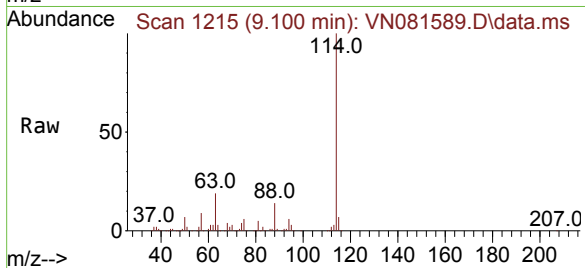
Tgt Ion:114 Resp: 705148

Ion Ratio Lower Upper

114 100

63 19.3 0.0 48.0

88 14.4 0.0 34.8



#35

Dibromofluoromethane

Concen: 50.016 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN081589.D

Acq: 27 Mar 2024 16:45

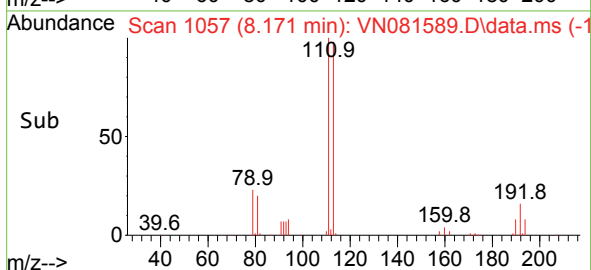
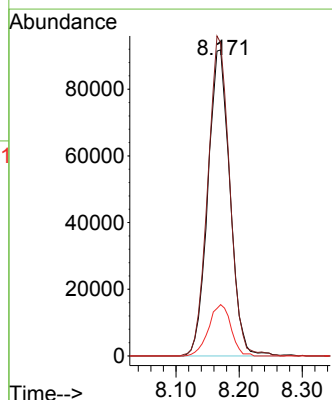
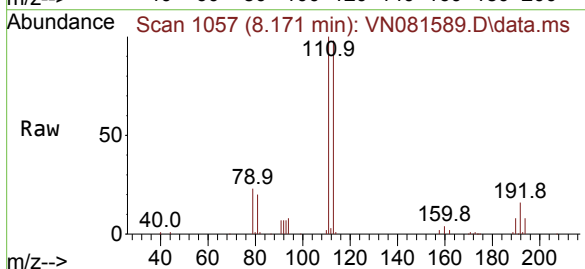
Tgt Ion:113 Resp: 222580

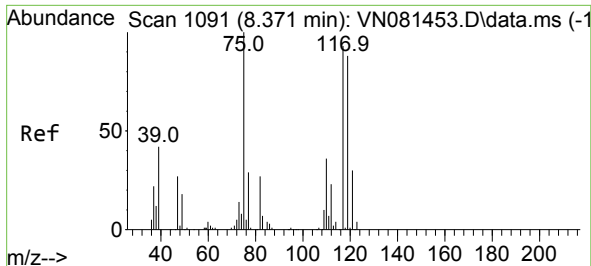
Ion Ratio Lower Upper

113 100

111 103.6 82.2 123.4

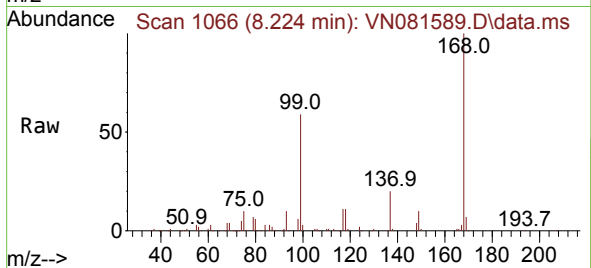
192 17.0 12.5 18.7



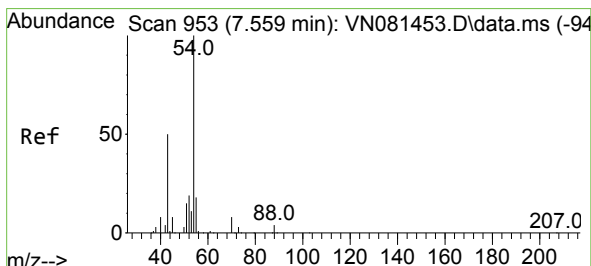
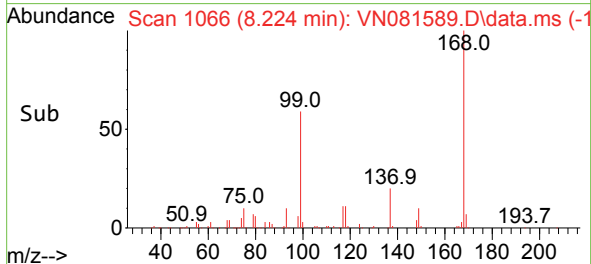
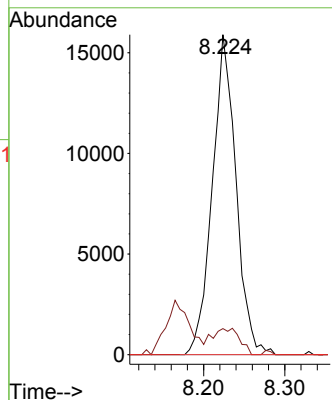


#36
1,1-Dichloropropene
Concen: 4.302 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#05

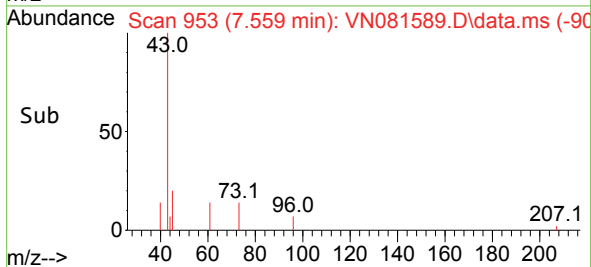
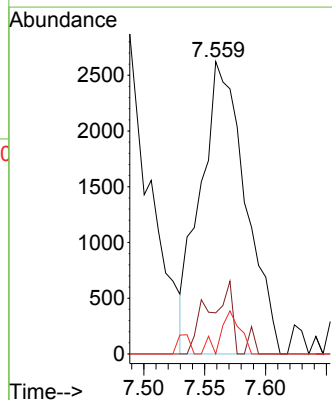
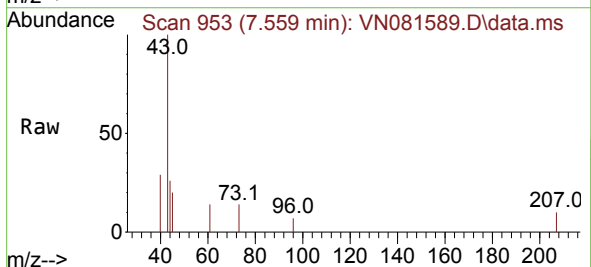


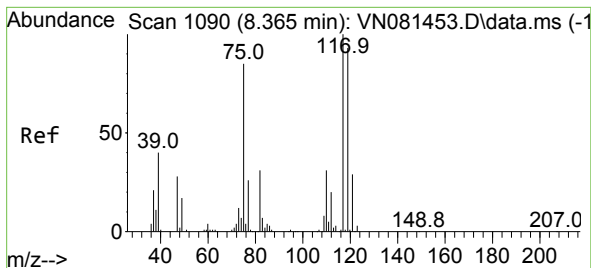
Tgt Ion: 75 Resp: 32218
Ion Ratio Lower Upper
75 100
110 9.6 16.0 48.0#
77 0.0 25.8 38.6#



#37
Ethyl Acetate
Concen: 1.058 ug/l
RT: 7.559 min Scan# 953
Delta R.T. 0.000 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

Tgt Ion: 43 Resp: 6785
Ion Ratio Lower Upper
43 100
61 12.9 10.6 15.8
70 6.4 8.0 12.0#





#38

Carbon Tetrachloride

Concen: 4.995 ug/l

RT: 8.230 min Scan# 110

Delta R.T. -0.135 min

Lab File: VN081589.D

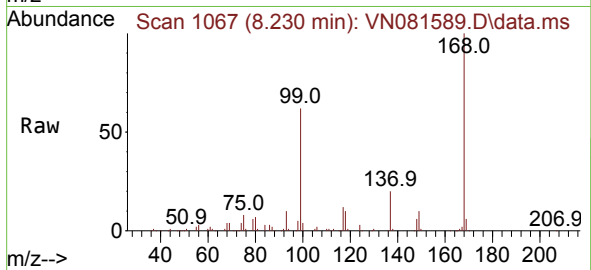
Acq: 27 Mar 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

PB159779ZHE#05



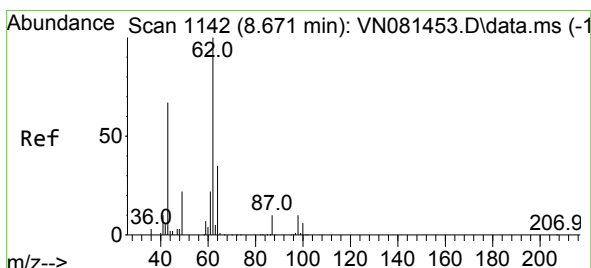
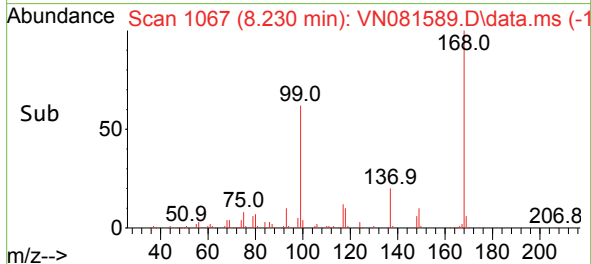
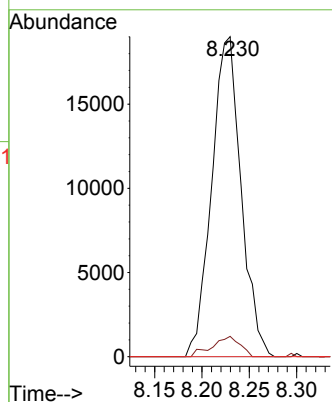
Tgt Ion:117 Resp: 40981

Ion Ratio Lower Upper

117 100

119 6.4 73.4 110.2#

121 0.0 24.4 36.6#



#42

1,2-Dichloroethane

Concen: 0.308 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN081589.D

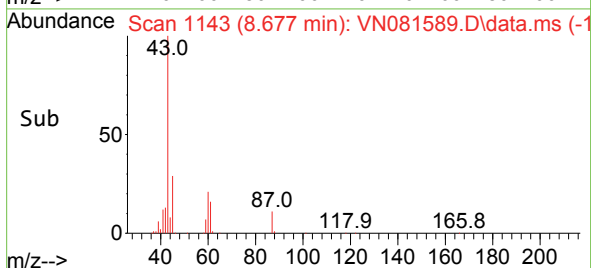
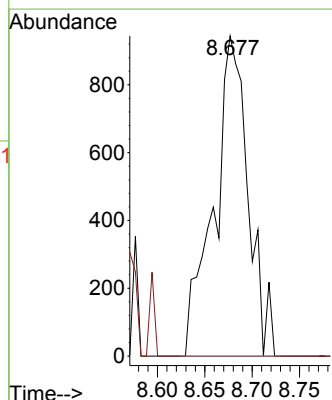
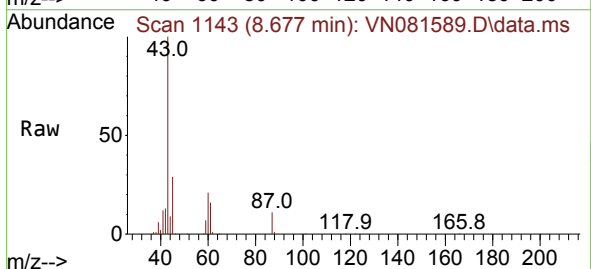
Acq: 27 Mar 2024 16:45

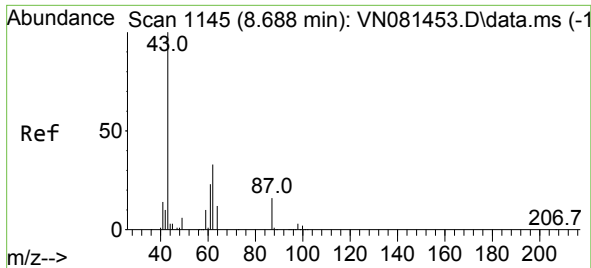
Tgt Ion: 62 Resp: 2376

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.0

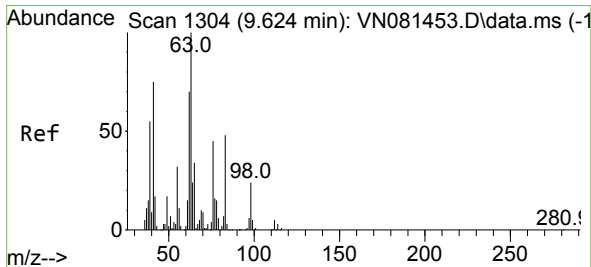
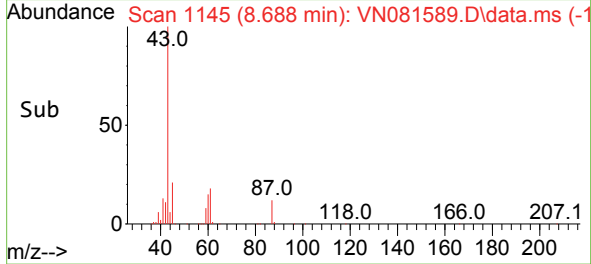
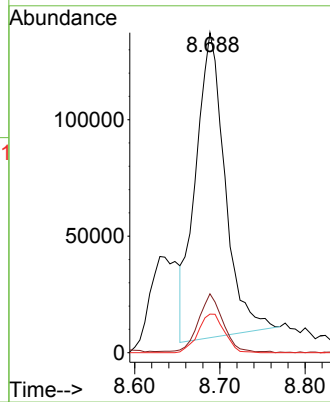
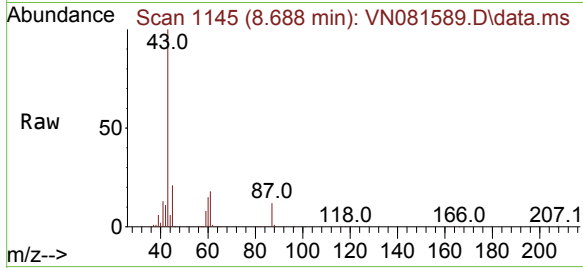




#43
Isopropyl Acetate
Concen: 29.430 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

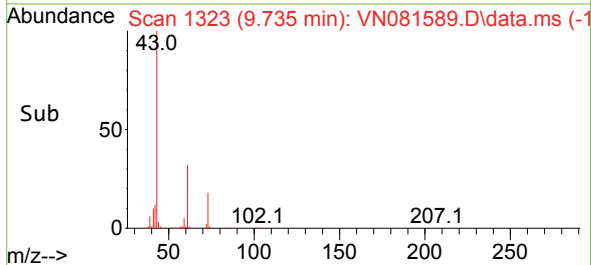
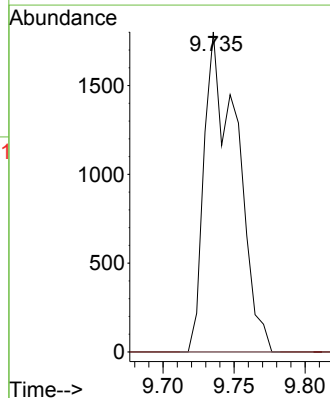
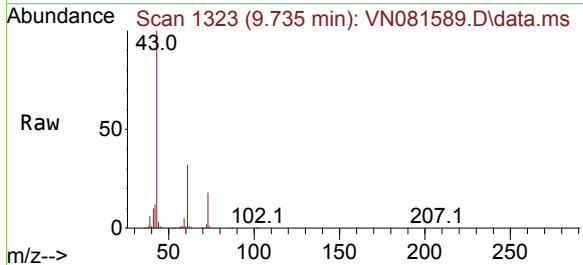
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#05

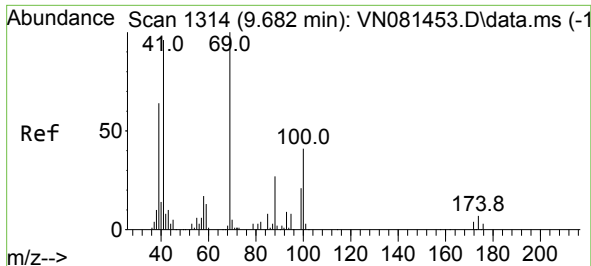
Tgt Ion: 43 Resp: 312842
Ion Ratio Lower Upper
43 100
61 16.6 19.9 29.9#
87 11.3 9.0 13.6



#45
1,2-Dichloropropane
Concen: 0.544 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.112 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

Tgt Ion: 63 Resp: 2887
Ion Ratio Lower Upper
63 100
65 0.0 26.1 39.1#

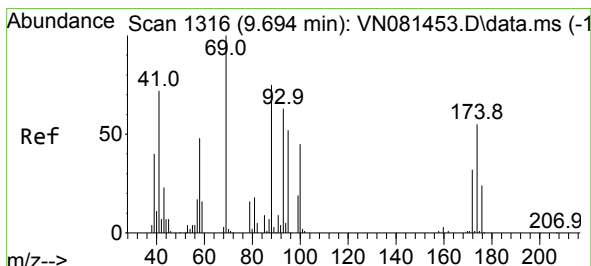
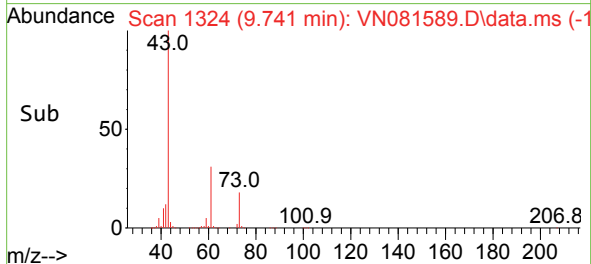
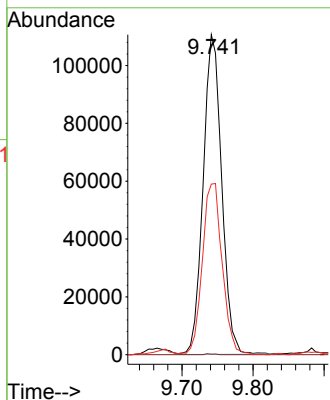
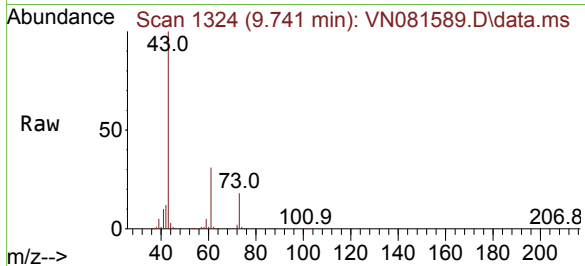




#48
Methyl methacrylate
Concen: 40.936 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

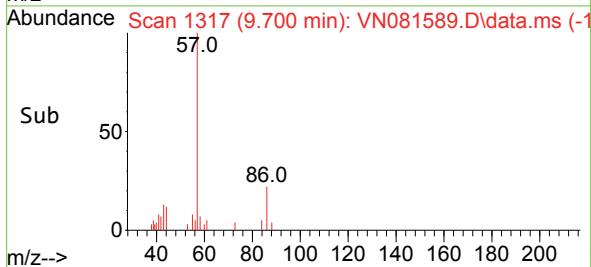
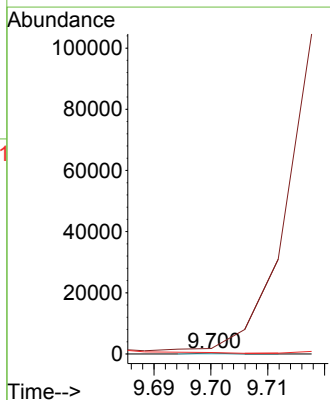
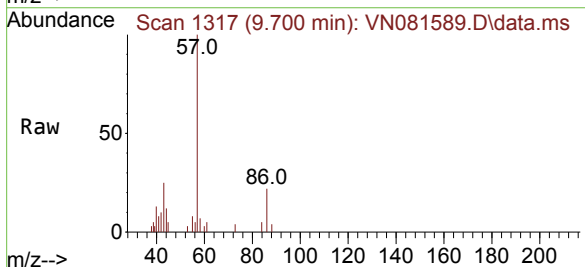
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#05

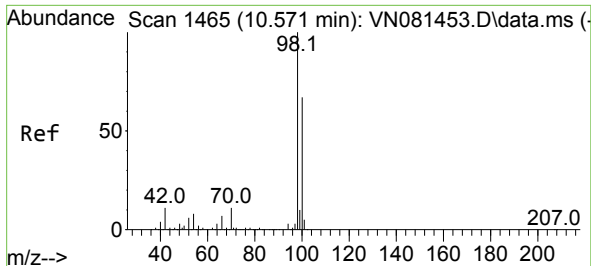
Tgt Ion: 41 Resp: 200710
Ion Ratio Lower Upper
41 100
69 0.1 62.2 93.2#
39 57.4 47.6 71.4



#49
1,4-Dioxane
Concen: 0.866 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

Tgt Ion: 88 Resp: 102
Ion Ratio Lower Upper
88 100
43 0.0 30.1 45.1#
58 0.0 63.9 95.9#

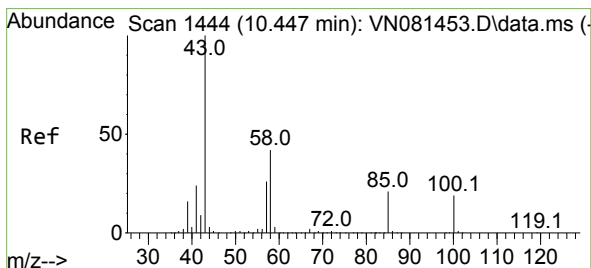
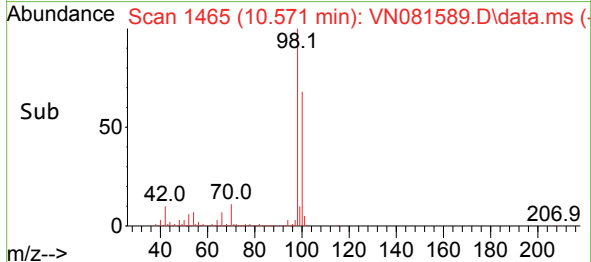
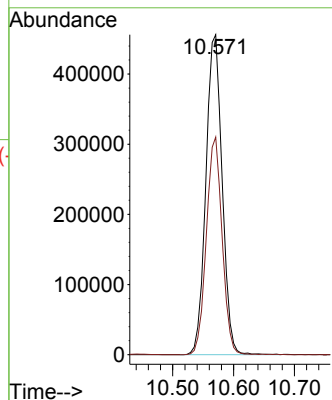
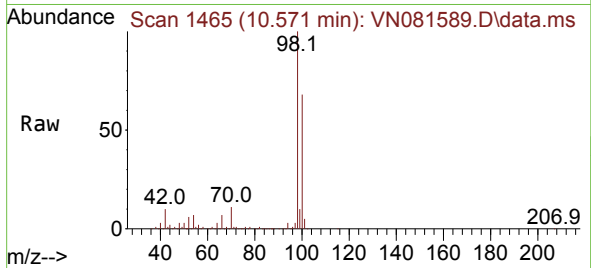




#50
Toluene-d8
Concen: 52.573 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

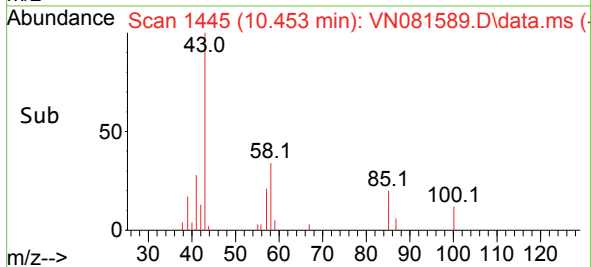
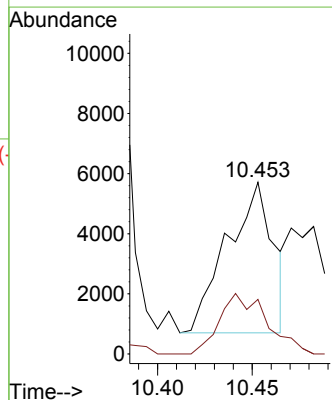
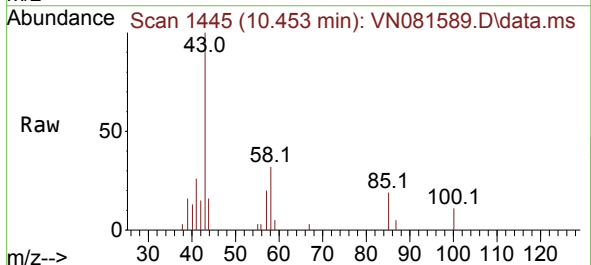
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#05

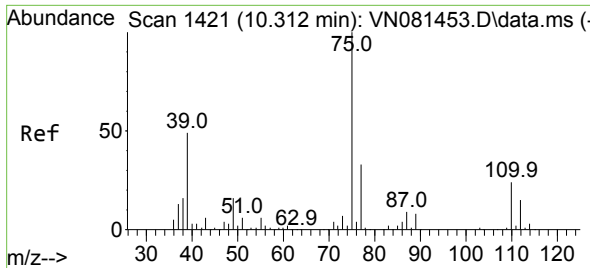
Tgt Ion: 98 Resp: 845741
Ion Ratio Lower Upper
98 100
100 65.9 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.309 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

Tgt Ion: 43 Resp: 8488
Ion Ratio Lower Upper
43 100
58 41.3 29.4 44.0

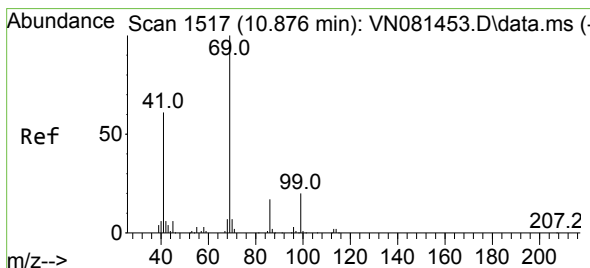
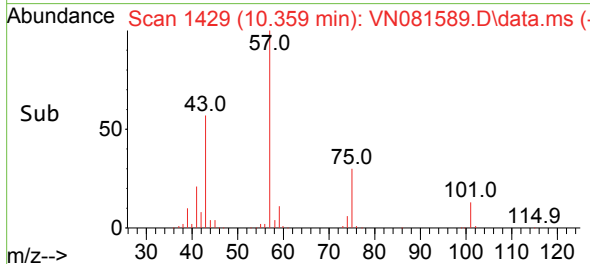
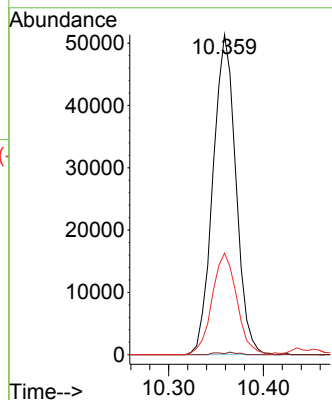
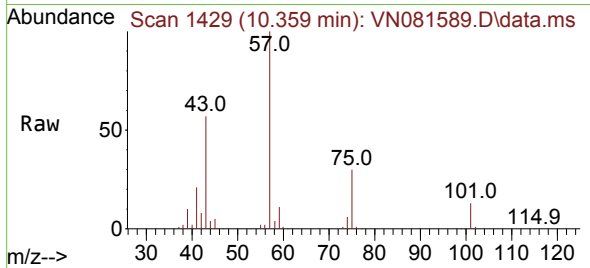




#54
cis-1,3-Dichloropropene
Concen: 9.488 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

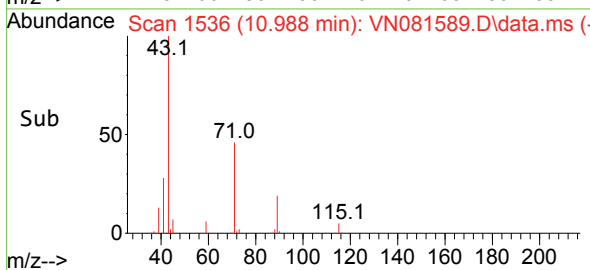
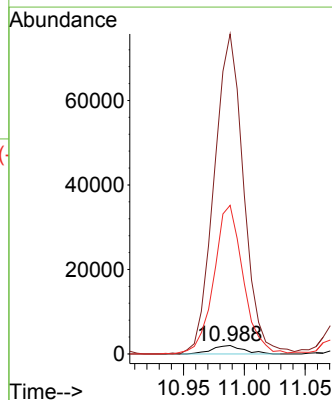
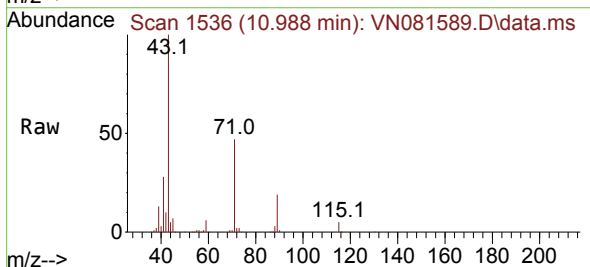
Instrument :
MSVOA_N
ClientSampleId :
PB159779ZHE#05

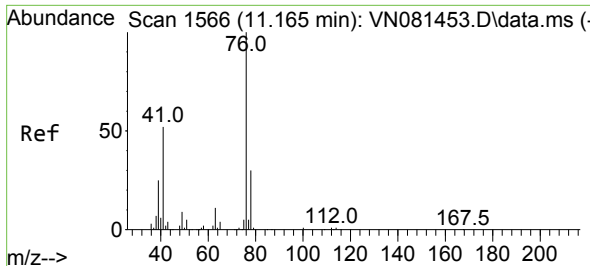
Tgt Ion: 75 Resp: 86550
Ion Ratio Lower Upper
75 100
77 0.3 23.3 34.9#
39 31.8 44.6 66.8#



#56
Ethyl methacrylate
Concen: 1.043 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.112 min
Lab File: VN081589.D
Acq: 27 Mar 2024 16:45

Tgt Ion: 69 Resp: 3586
Ion Ratio Lower Upper
69 100
41 3557.1 61.0 91.6#
39 1648.9 31.8 47.6#





#57

1,3-Dichloropropane

Concen: 1.187 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.035 min

Lab File: VN081589.D

Acq: 27 Mar 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

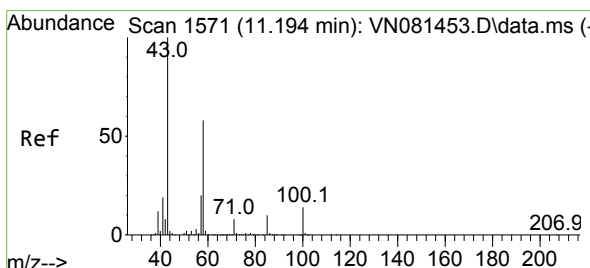
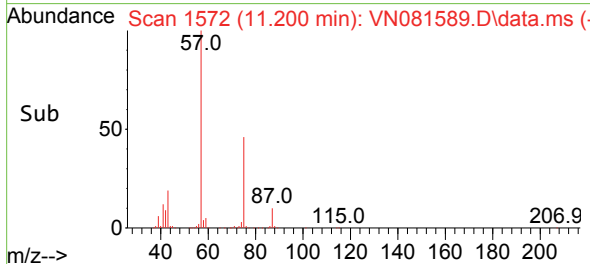
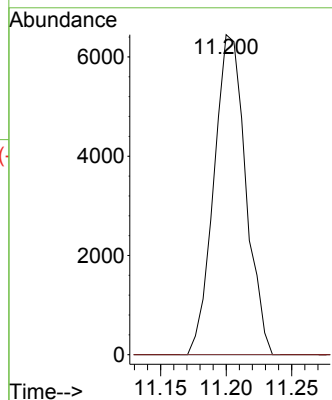
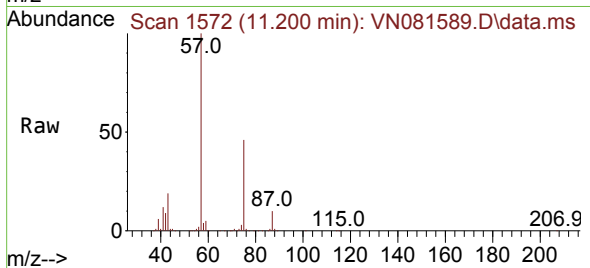
PB159779ZHE#05

Tgt Ion: 76 Resp: 10896

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



#59

2-Hexanone

Concen: 27.674 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN081589.D

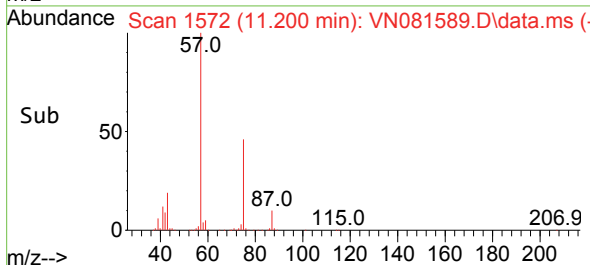
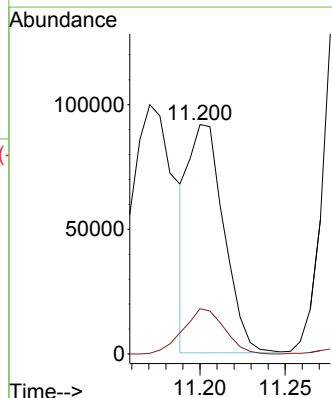
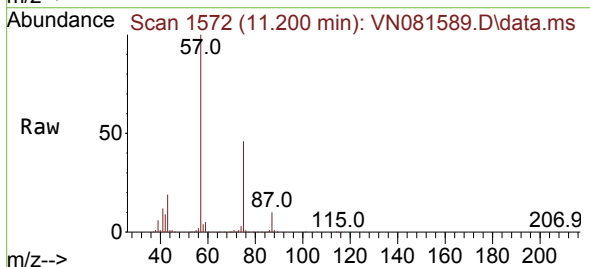
Acq: 27 Mar 2024 16:45

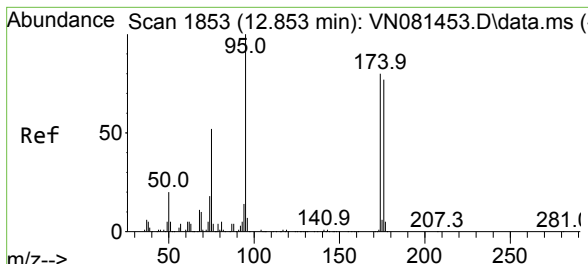
Tgt Ion: 43 Resp: 132718

Ion Ratio Lower Upper

43 100

58 23.1 25.9 77.8#

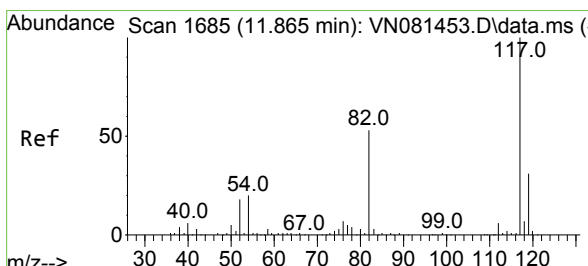
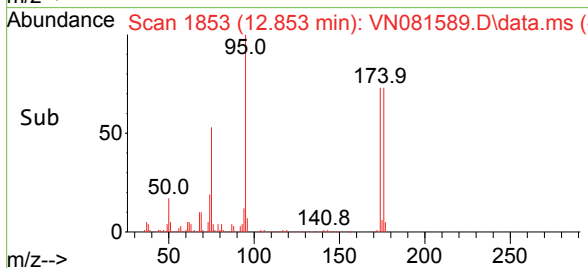
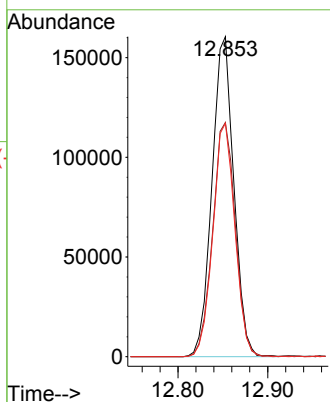
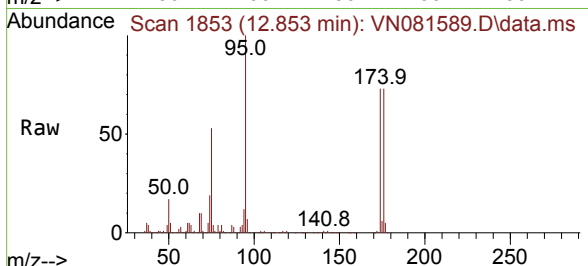




#62
 4-Bromofluorobenzene
 Concen: 47.765 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VN081589.D
 Acq: 27 Mar 2024 16:45

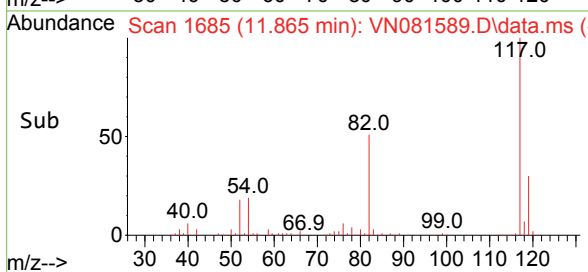
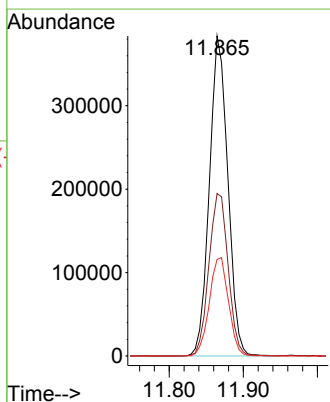
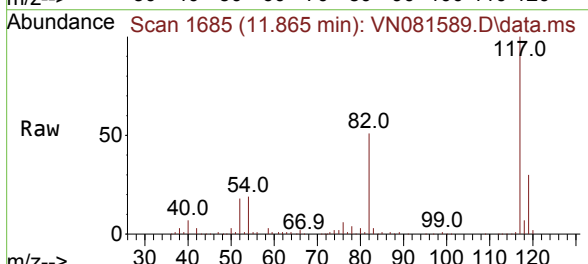
Instrument :
 MSVOA_N
 ClientSampleId :
 PB159779ZHE#05

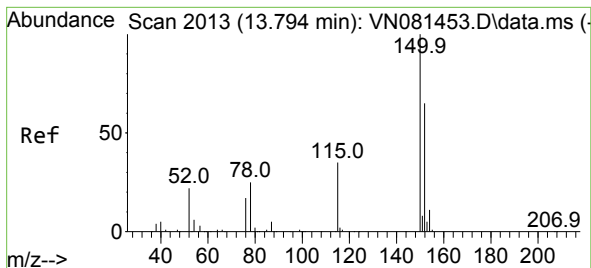
Tgt Ion:	95	Resp:	270750
Ion	Ratio	Lower	Upper
95	100		
174	76.1	0.0	120.4
176	73.4	0.0	121.0



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.865 min Scan# 1685
 Delta R.T. 0.000 min
 Lab File: VN081589.D
 Acq: 27 Mar 2024 16:45

Tgt Ion:	117	Resp:	662816
Ion	Ratio	Lower	Upper
117	100		
82	50.7	52.7	79.1#
119	30.2	25.3	37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN081589.D

Acq: 27 Mar 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

PB159779ZHE#05

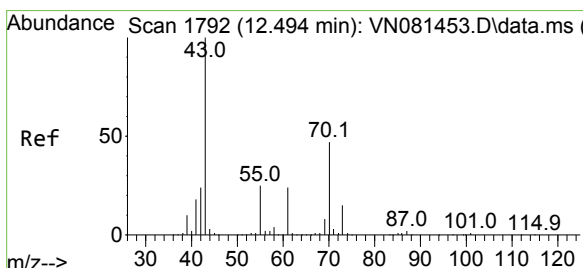
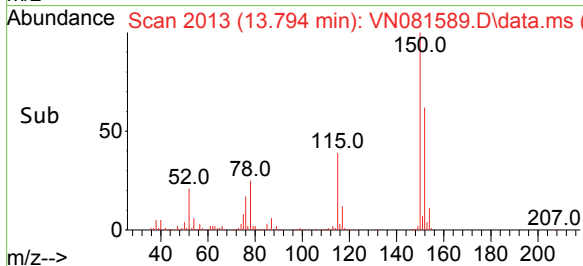
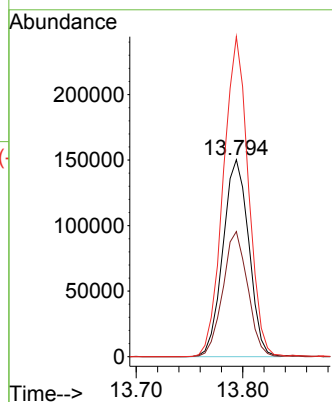
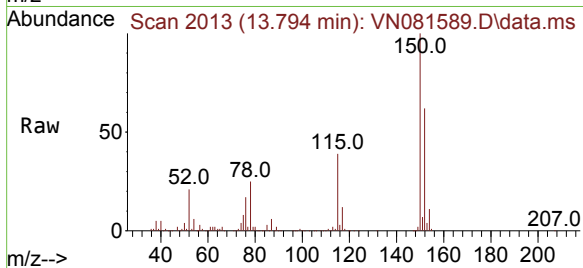
Tgt Ion:152 Resp: 253465

Ion Ratio Lower Upper

152 100

115 61.2 32.3 96.8

150 157.3 0.0 339.8



#74

N-ethyl acetate

Concen: 0.289 ug/l

RT: 12.476 min Scan# 1789

Delta R.T. -0.018 min

Lab File: VN081589.D

Acq: 27 Mar 2024 16:45

Tgt Ion: 43 Resp: 2261

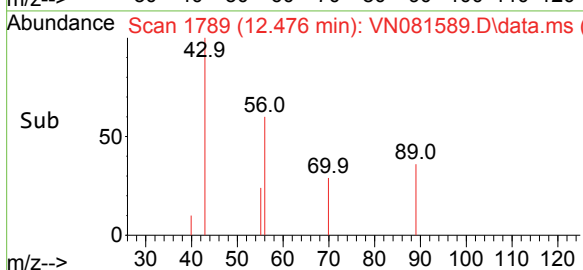
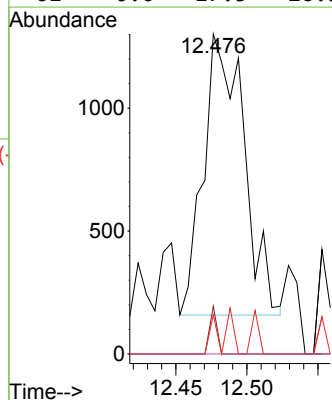
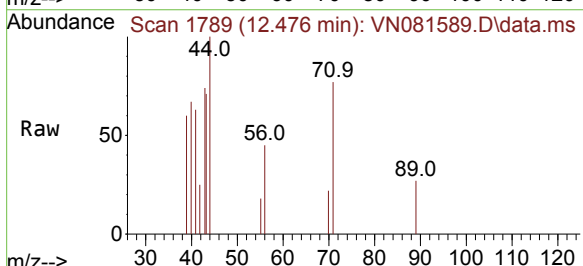
Ion Ratio Lower Upper

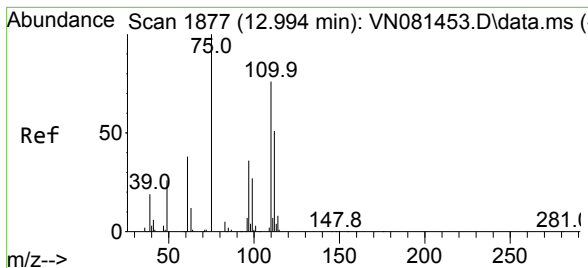
43 100

70 3.1 30.1 45.1#

55 0.0 17.0 25.4#

61 0.0 17.5 26.3#





#76

1,2,3-Trichloropropane

Concen: 23.795 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN081589.D

Acq: 27 Mar 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

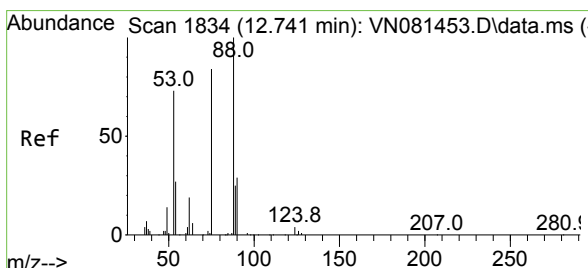
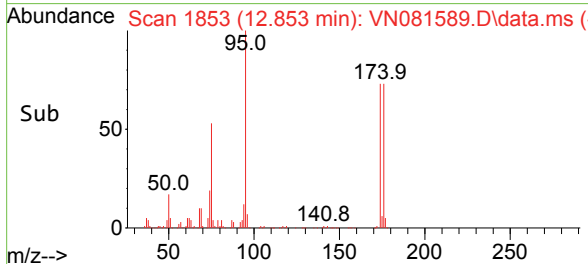
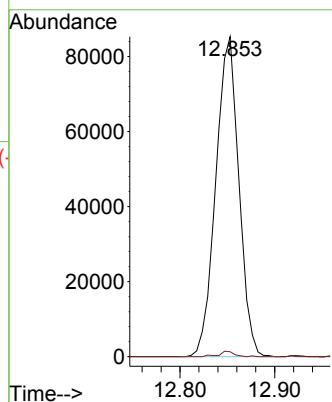
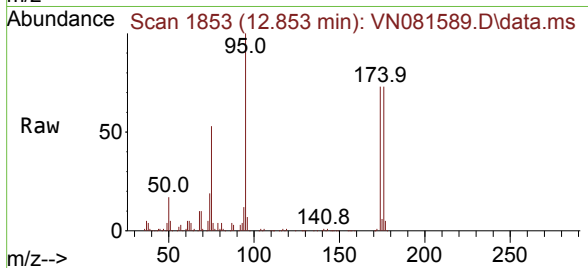
PB159779ZHE#05

Tgt Ion: 75 Resp: 144271

Ion Ratio Lower Upper

75 100

77 1.2 91.0 272.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.303 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN081589.D

Acq: 27 Mar 2024 16:45

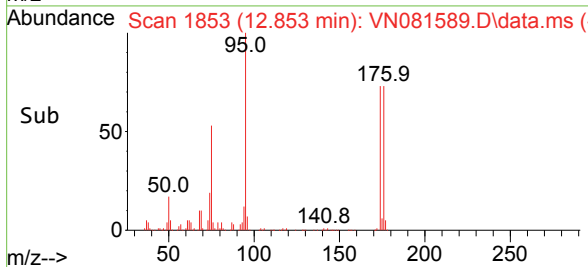
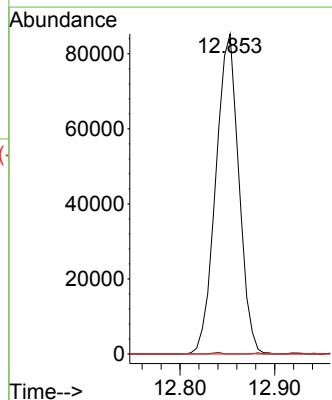
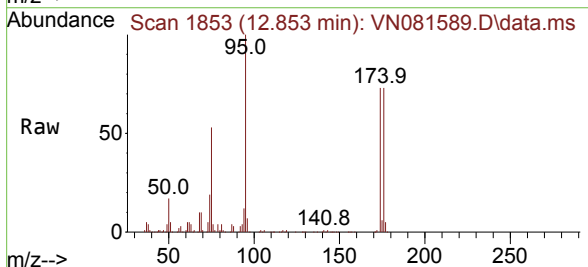
Tgt Ion: 75 Resp: 144271

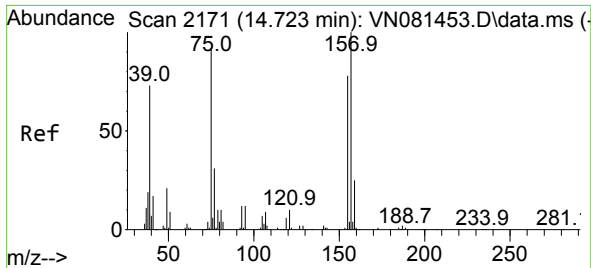
Ion Ratio Lower Upper

75 100

53 0.2 71.4 107.2#

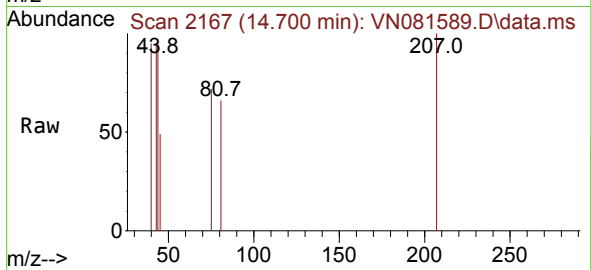
89 0.0 33.4 50.0#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.228 ug/l
 RT: 14.700 min Scan# 21
 Delta R.T. -0.023 min
 Lab File: VN081589.D
 Acq: 27 Mar 2024 16:45

Instrument :
 MSVOA_N
 ClientSampleId :
 PB159779ZHE#05



Tgt Ion: 75 Resp: 308
 Ion Ratio Lower Upper
 75 100
 155 0.0 31.8 95.4#
 157 0.0 41.1 123.4#

