

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032924\
 Data File : VN081627.D
 Acq On : 29 Mar 2024 19:53
 Operator : JC\MD
 Sample : PB159859ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB159859ZHE#05

Quant Time: Mar 30 00:34:51 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)

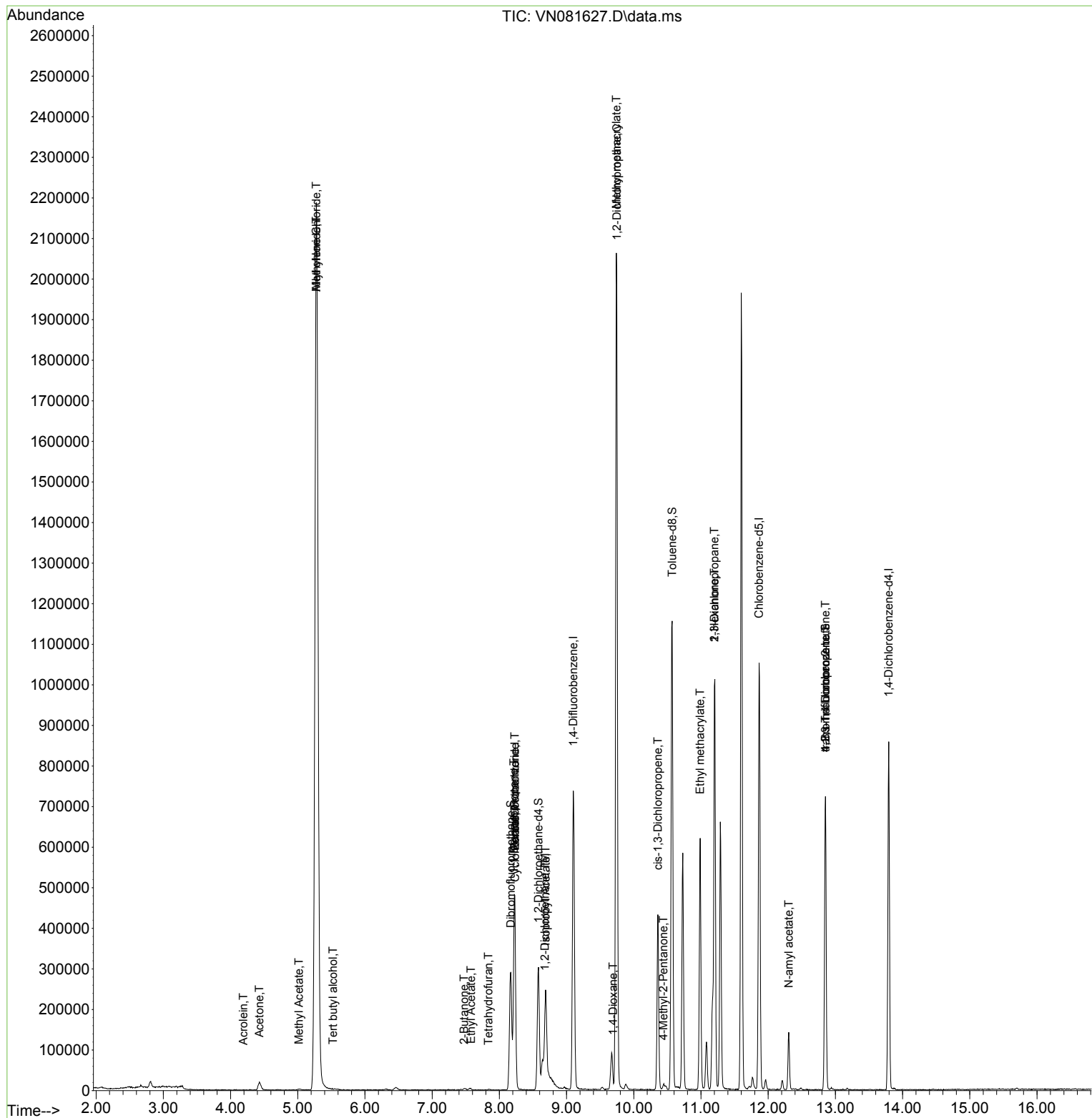
Internal Standards						
1) Pentafluorobenzene	8.230	168	343762	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	664642	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	627323	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	223603	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	242267	55.263	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.520%			
35) Dibromofluoromethane	8.171	113	214122	51.047	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.100%			
50) Toluene-d8	10.571	98	818953	54.010	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.020%			
62) 4-Bromofluorobenzene	12.853	95	251573	47.086	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 94.180%			
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.524	59	295	0.386	ug/l #	72
13) Acrolein	4.189	56	152	0.222	ug/l #	15
14) Allyl chloride	5.277	41	50330	9.900	ug/l #	23
16) Acetone	4.430	43	35089	24.767	ug/l #	86
18) Methyl Acetate	5.018	43	4119	0.943	ug/l #	71
20) Methylene Chloride	5.277	84	1888117	406.846	ug/l	85
25) 2-Butanone	7.477	43	4476	1.842	ug/l #	79
29) Tetrahydrofuran	7.835	42	986	0.602	ug/l #	60
31) Cyclohexane	8.235	56	7989	1.120	ug/l #	28
36) 1,1-Dichloropropene	8.218	75	29783	4.219	ug/l #	50
37) Ethyl Acetate	7.577	43	5603	0.927	ug/l #	91
38) Carbon Tetrachloride	8.230	117	39500	5.108	ug/l #	19
42) 1,2-Dichloroethane	8.677	62	1493	0.206	ug/l #	75
43) Isopropyl Acetate	8.688	43	352210	35.152	ug/l #	81
45) 1,2-Dichloropropane	9.747	63	2765	0.553	ug/l #	42
48) Methyl methacrylate	9.741	41	183299	39.663	ug/l #	49
49) 1,4-Dioxane	9.694	88	130	1.171	ug/l #	18
51) 4-Methyl-2-Pentanone	10.441	43	9211	1.507	ug/l	92
54) cis-1,3-Dichloropropene	10.359	75	80371	9.348	ug/l #	62
56) Ethyl methacrylate	10.988	69	3193	1.016	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	11195	1.294	ug/l #	43
59) 2-Hexanone	11.200	43	124525	27.548	ug/l #	59
74) N-amyl acetate	12.306	43	39305	5.698	ug/l #	59
76) 1,2,3-Trichloropropane	12.853	75	127272	23.795	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	127272	64.302	ug/l #	14

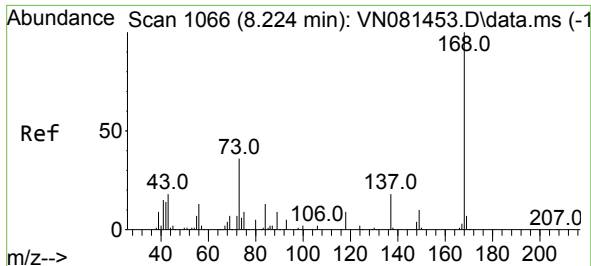
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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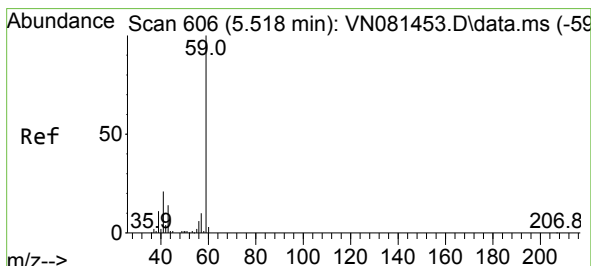
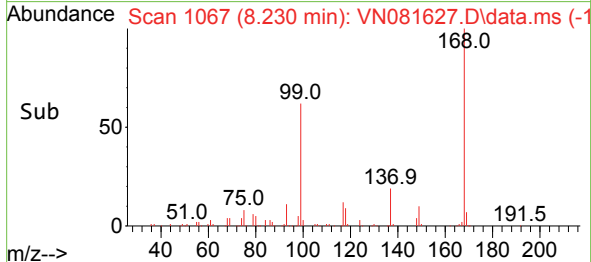
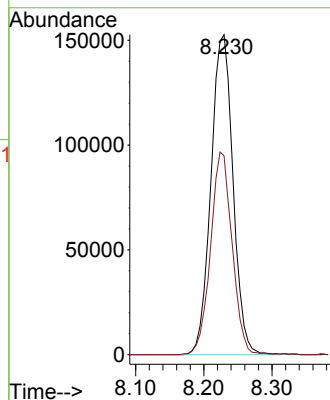
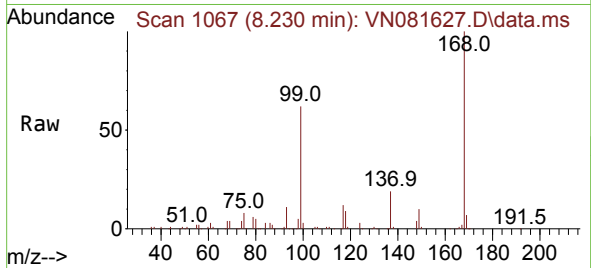




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

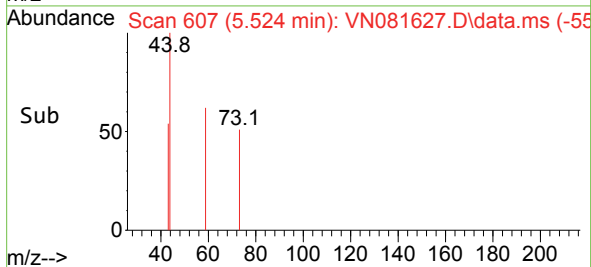
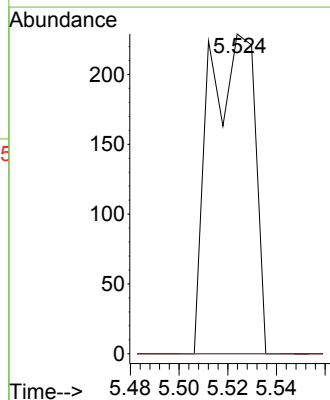
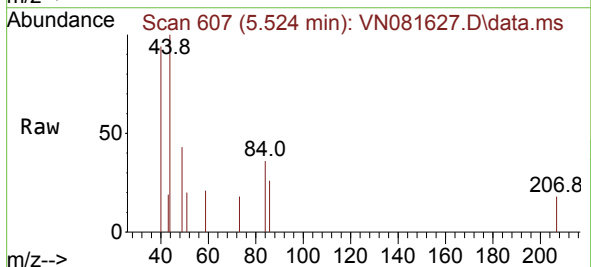
Instrument :
MSVOA_N
ClientSampleId :
PB159859ZHE#05

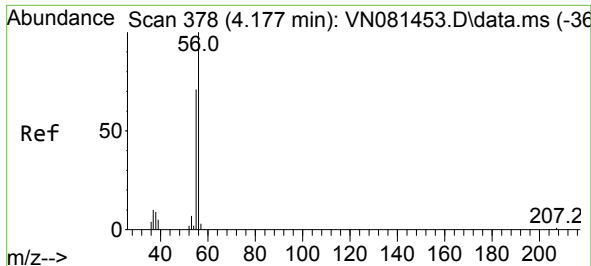
Tgt Ion:168 Resp: 343762
Ion Ratio Lower Upper
168 100
99 62.1 59.9 89.9



#11
Tert butyl alcohol
Concen: 0.386 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

Tgt Ion: 59 Resp: 295
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

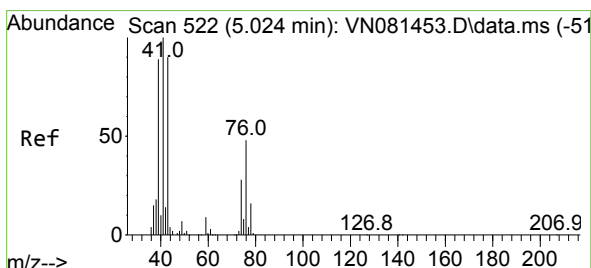
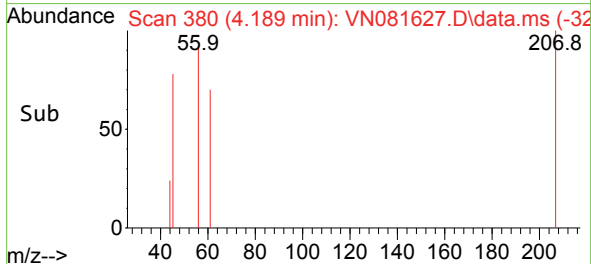
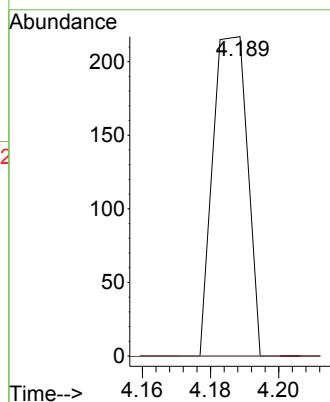
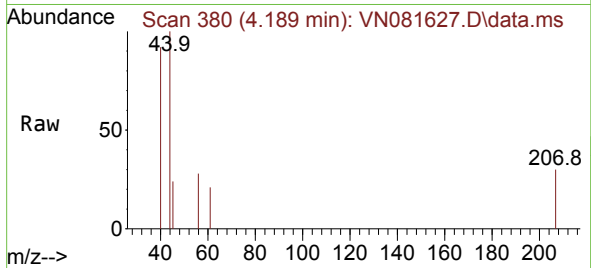




#13
Acrolein
Concen: 0.222 ug/l
RT: 4.189 min Scan# 31
Delta R.T. 0.012 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

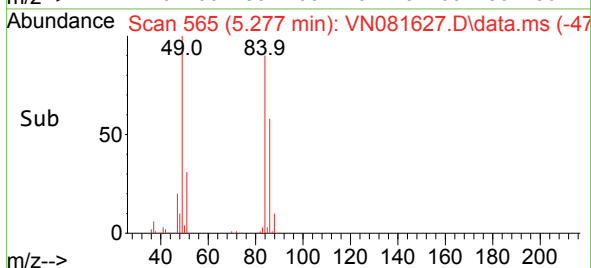
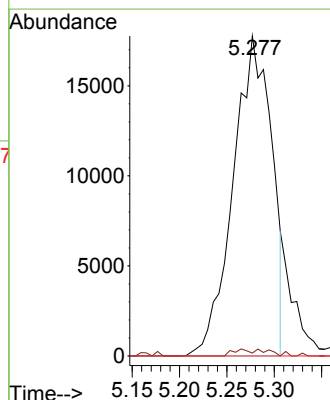
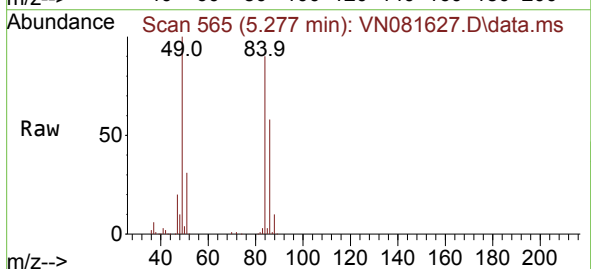
Instrument :
MSVOA_N
ClientSampleId :
PB159859ZHE#05

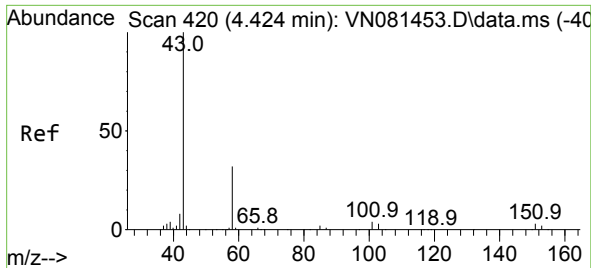
Tgt Ion: 56 Resp: 152
Ion Ratio Lower Upper
56 100
55 0.0 55.3 82.9#



#14
Allyl chloride
Concen: 9.900 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.253 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

Tgt Ion: 41 Resp: 50330
Ion Ratio Lower Upper
41 100
39 0.8 57.7 86.5#
76 0.0 26.8 40.2#

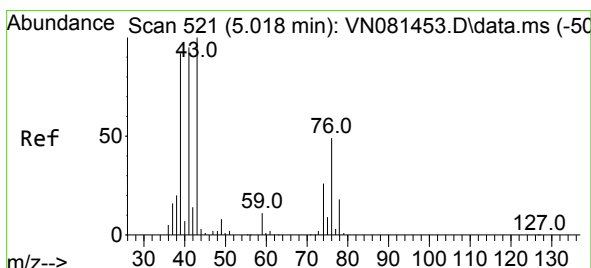
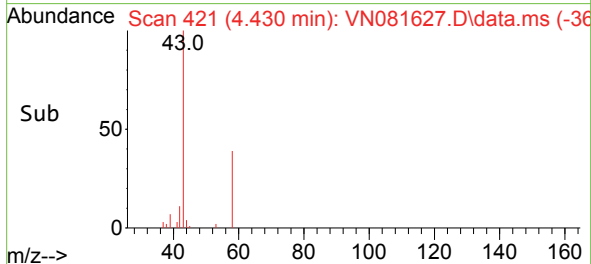
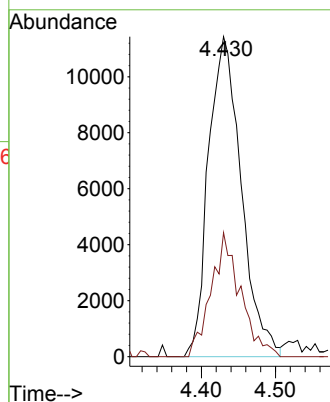
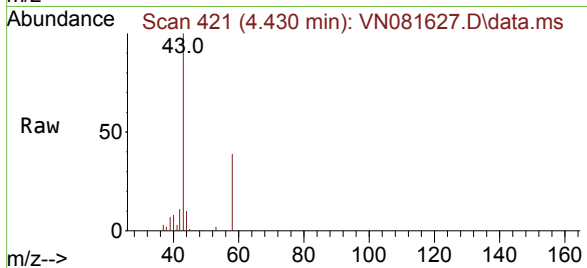




#16
Acetone
Concen: 24.767 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

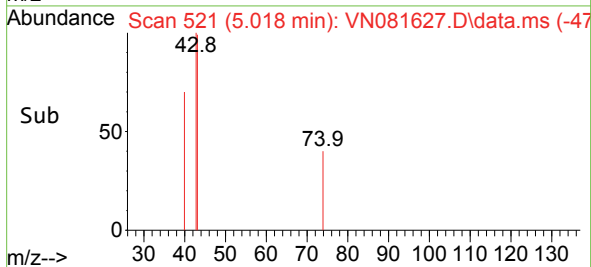
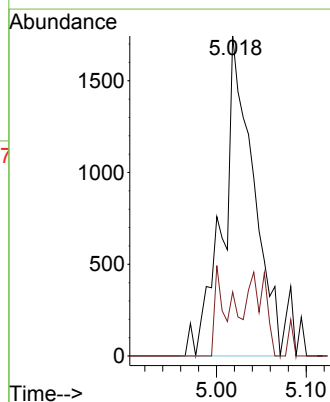
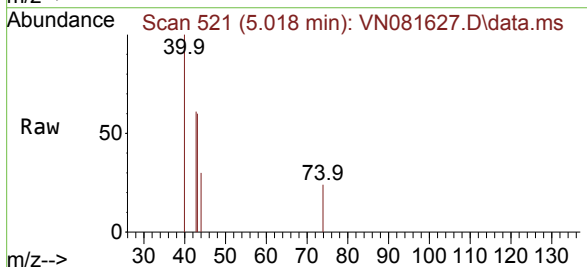
Instrument :
MSVOA_N
ClientSampleId :
PB159859ZHE#05

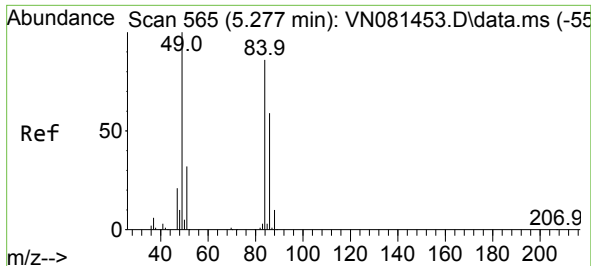
Tgt Ion: 43 Resp: 35089
Ion Ratio Lower Upper
43 100
58 38.8 24.8 37.2#



#18
Methyl Acetate
Concen: 0.943 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

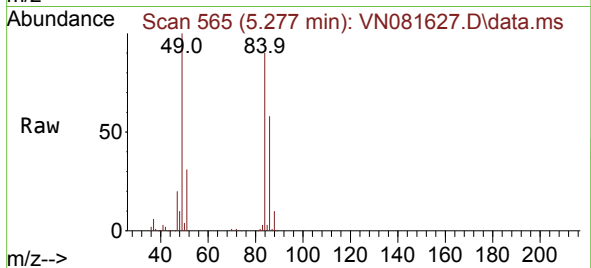
Tgt Ion: 43 Resp: 4119
Ion Ratio Lower Upper
43 100
74 8.0 17.3 25.9#





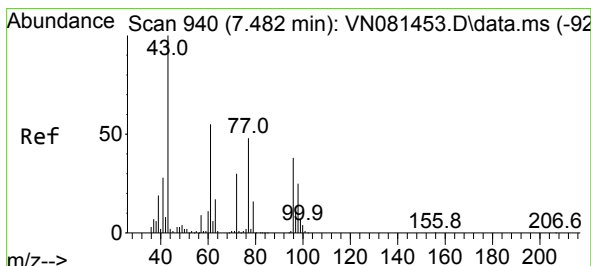
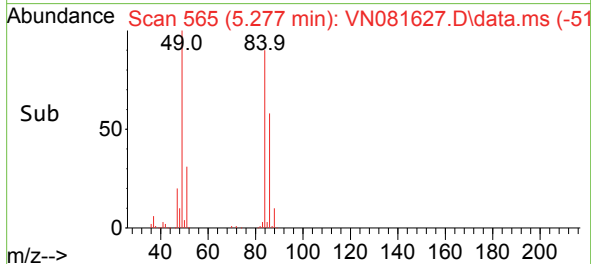
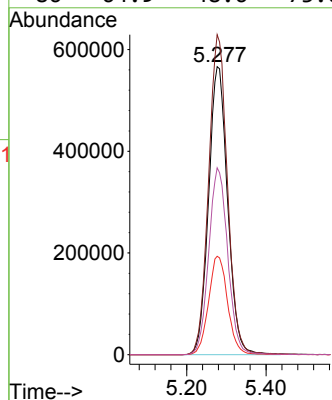
#20
Methylene Chloride
Concen: 406.846 ug/l
RT: 5.277 min Scan# 50
Delta R.T. 0.000 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

Instrument :
MSVOA_N
ClientSampleId :
PB159859ZHE#05



Tgt Ion: 84 Resp: 1888117

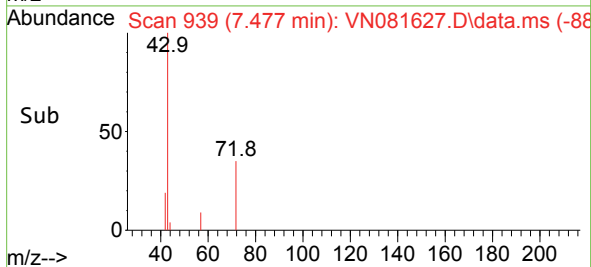
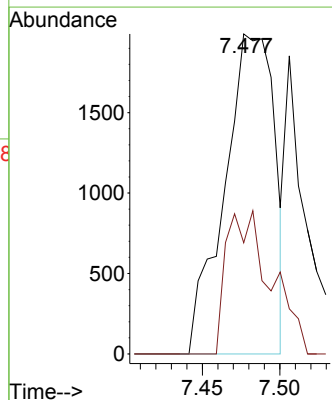
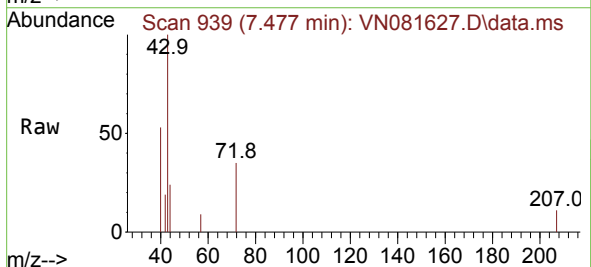
Ion	Ratio	Lower	Upper
84	100		
49	111.1	108.1	162.1
51	34.2	32.9	49.3
86	64.9	48.6	73.0

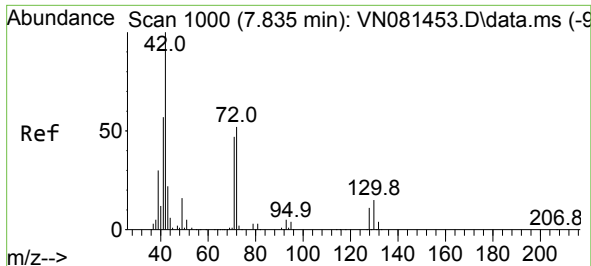


#25
2-Butanone
Concen: 1.842 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

Tgt Ion: 43 Resp: 4476

Ion	Ratio	Lower	Upper
43	100		
72	34.7	19.5	29.3#





#29

Tetrahydrofuran

Concen: 0.602 ug/l

RT: 7.835 min Scan# 1068

Delta R.T. 0.000 min

Lab File: VN081627.D

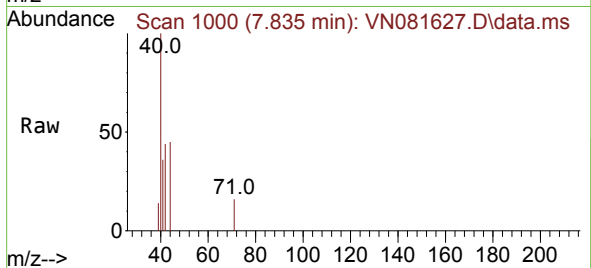
Acq: 29 Mar 2024 19:53

Instrument :

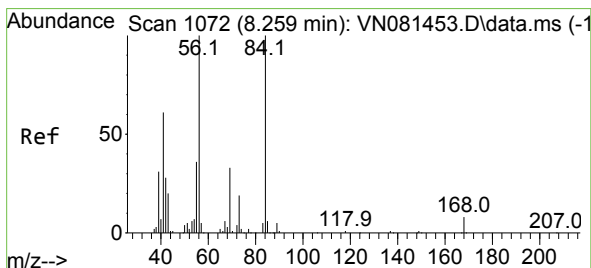
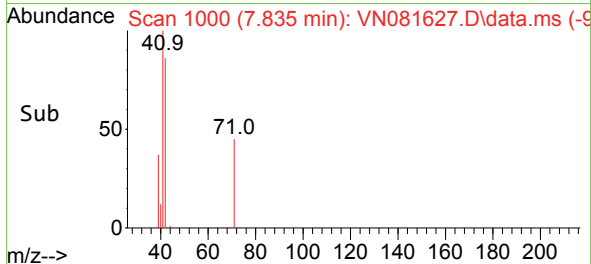
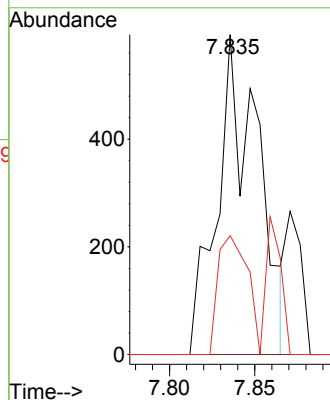
MSVOA_N

ClientSampleId :

PB159859ZHE#05



Tgt Ion:	42	Resp:	986
Ion Ratio	Lower	Upper	
42	100		
72	0.0	31.1	46.7#
71	27.1	28.3	42.5#



#31

Cyclohexane

Concen: 1.120 ug/l

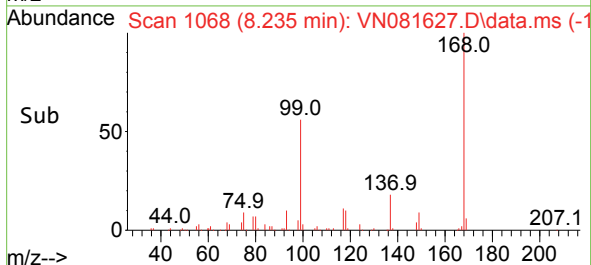
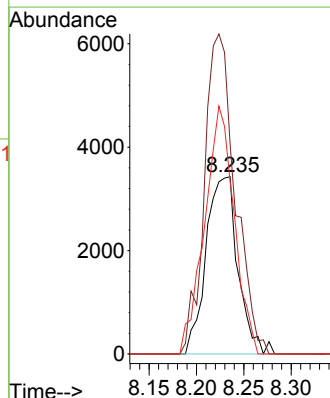
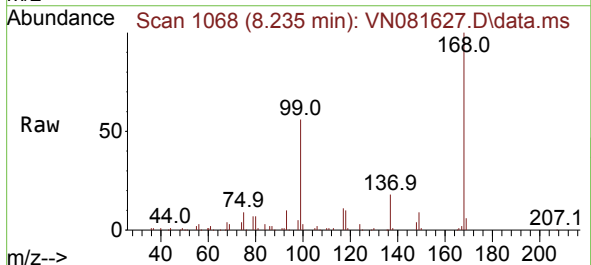
RT: 8.235 min Scan# 1068

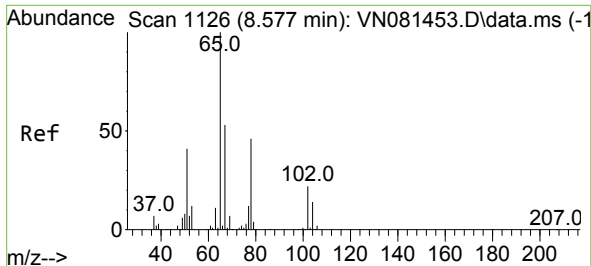
Delta R.T. -0.023 min

Lab File: VN081627.D

Acq: 29 Mar 2024 19:53

Tgt Ion:	56	Resp:	7989
Ion Ratio	Lower	Upper	
56	100		
69	118.5	20.1	30.1#
84	97.4	56.9	85.3#





#33

1,2-Dichloroethane-d4

Concen: 55.263 ug/l

RT: 8.582 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN081627.D

Acq: 29 Mar 2024 19:53

Instrument :

MSVOA_N

ClientSampleId :

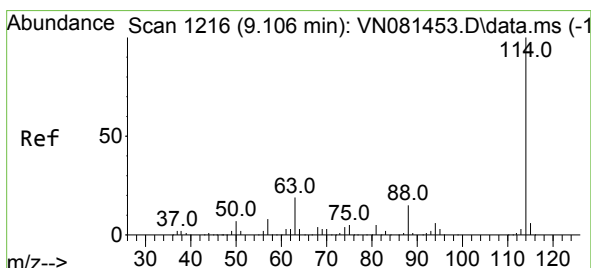
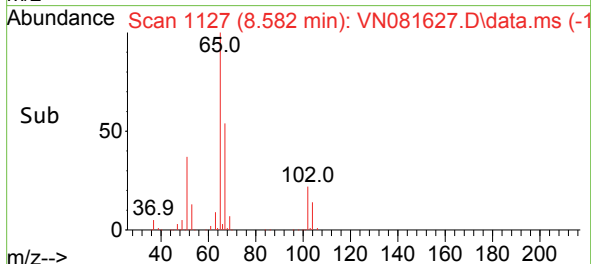
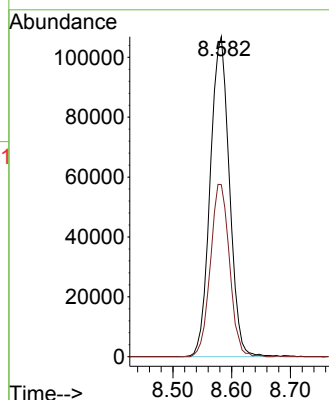
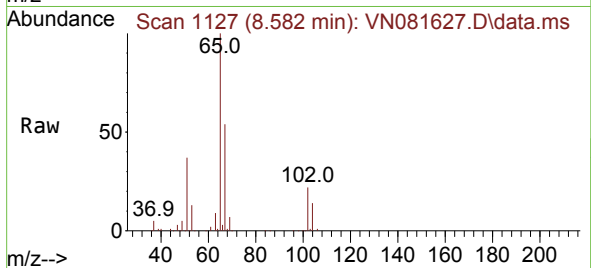
PB159859ZHE#05

Tgt Ion: 65 Resp: 242267

Ion Ratio Lower Upper

65 100

67 53.6 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.006 min

Lab File: VN081627.D

Acq: 29 Mar 2024 19:53

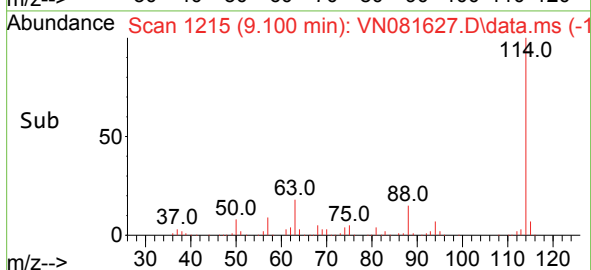
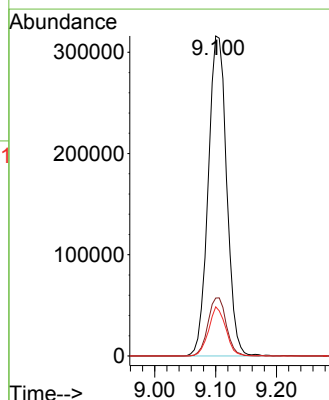
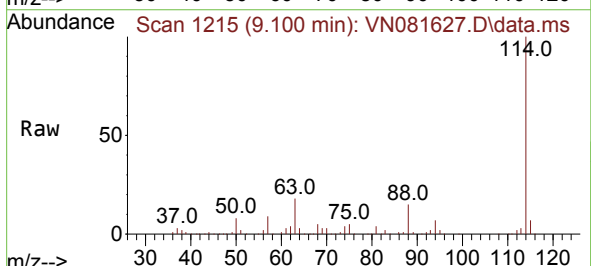
Tgt Ion: 114 Resp: 664642

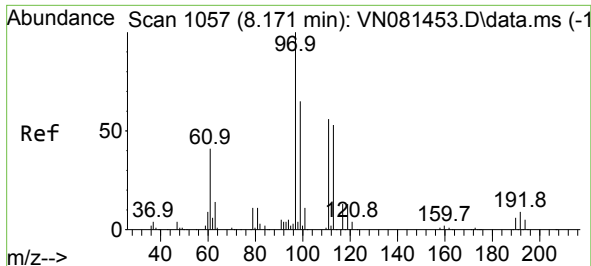
Ion Ratio Lower Upper

114 100

63 18.1 0.0 48.0

88 15.4 0.0 34.8

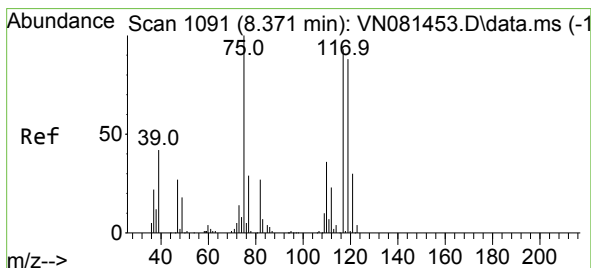
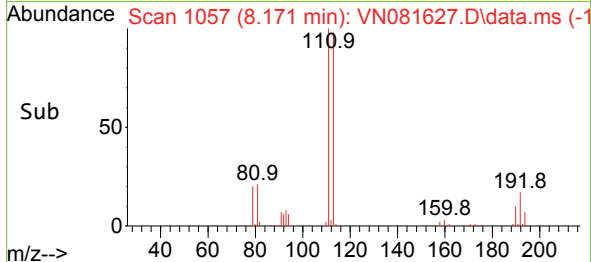
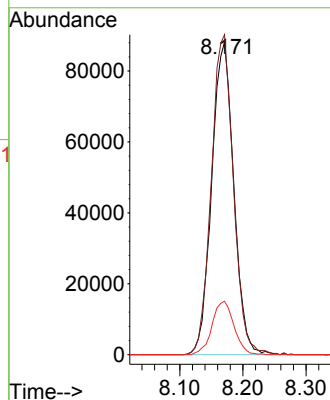
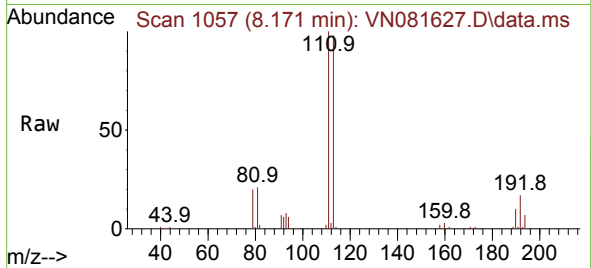




#35
Dibromofluoromethane
Concen: 51.047 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

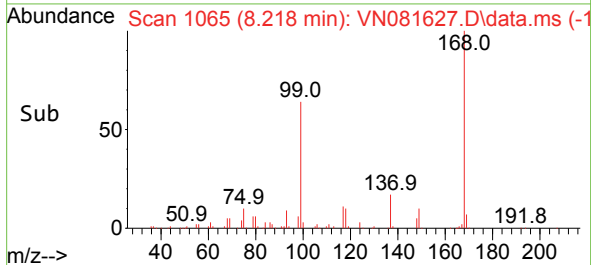
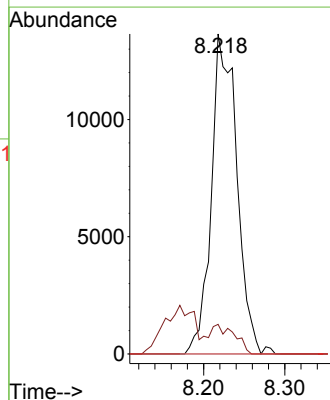
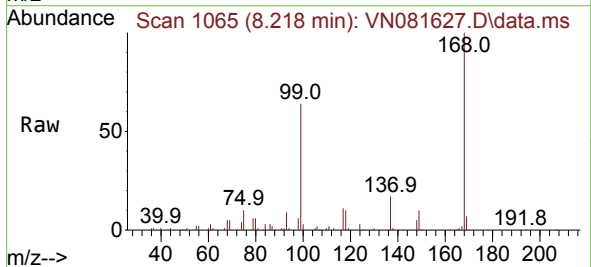
Instrument :
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PB159859ZHE#05

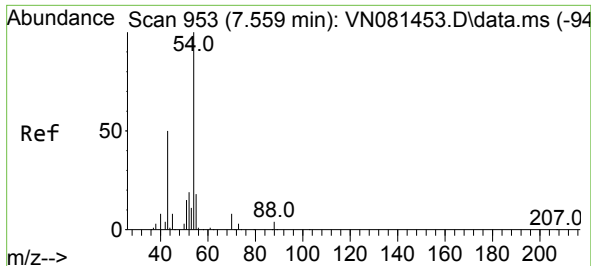
Tgt Ion:113 Resp: 214122
Ion Ratio Lower Upper
113 100
111 102.2 82.2 123.4
192 17.0 12.5 18.7



#36
1,1-Dichloropropene
Concen: 4.219 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.153 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

Tgt Ion: 75 Resp: 29783
Ion Ratio Lower Upper
75 100
110 8.1 16.0 48.0#
77 0.0 25.8 38.6#





#37

Ethyl Acetate

Concen: 0.927 ug/l

RT: 7.577 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN081627.D

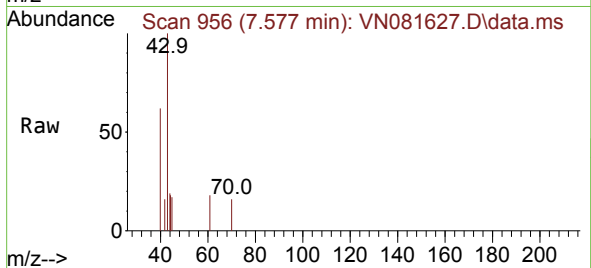
Acq: 29 Mar 2024 19:53

Instrument :

MSVOA_N

ClientSampleId :

PB159859ZHE#05



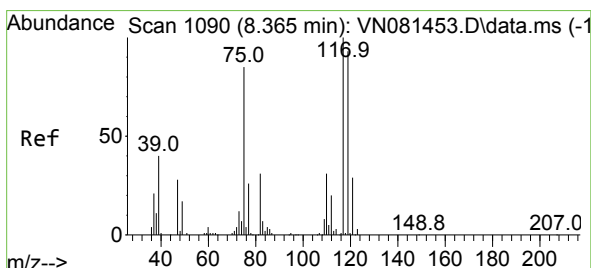
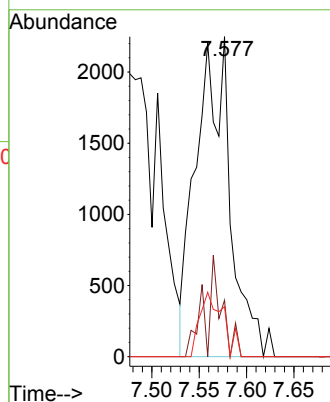
Tgt Ion: 43 Resp: 5603

Ion Ratio Lower Upper

43 100

61 10.2 10.6 15.8#

70 13.9 8.0 12.0#



#38

Carbon Tetrachloride

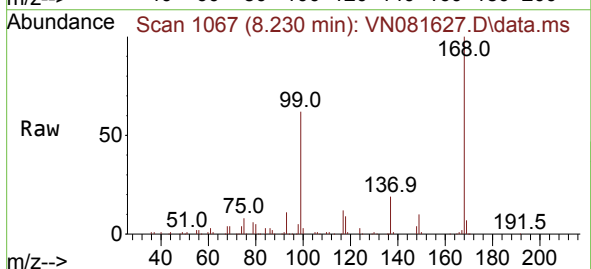
Concen: 5.108 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.135 min

Lab File: VN081627.D

Acq: 29 Mar 2024 19:53



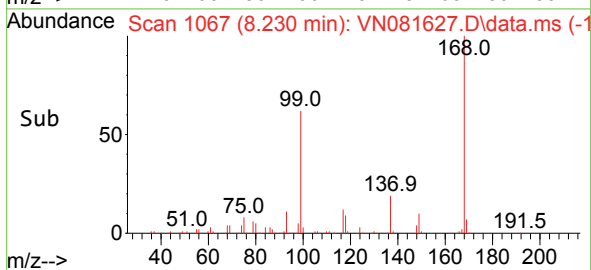
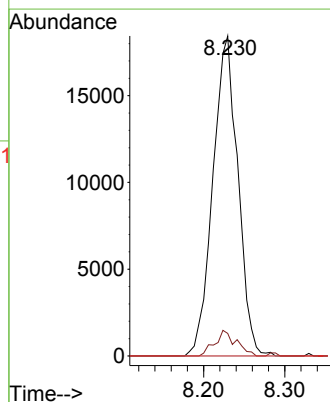
Tgt Ion: 117 Resp: 39500

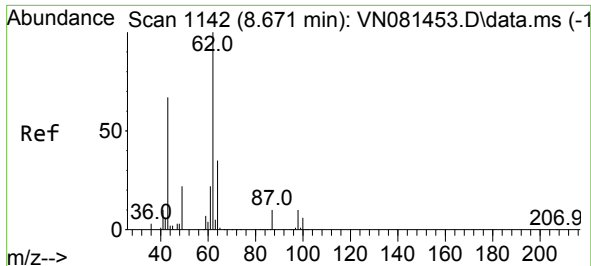
Ion Ratio Lower Upper

117 100

119 7.0 73.4 110.2#

121 0.0 24.4 36.6#





#42

1,2-Dichloroethane

Concen: 0.206 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN081627.D

Acq: 29 Mar 2024 19:53

Instrument :

MSVOA_N

ClientSampleId :

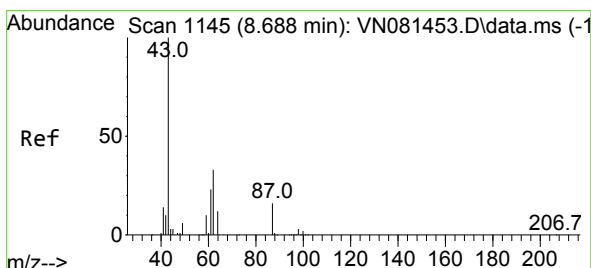
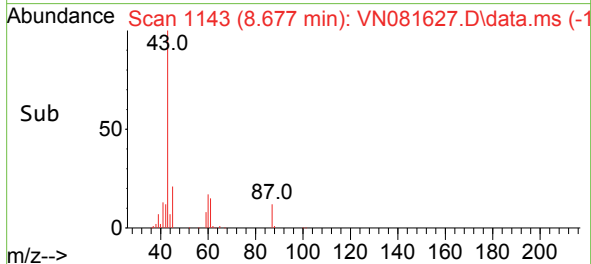
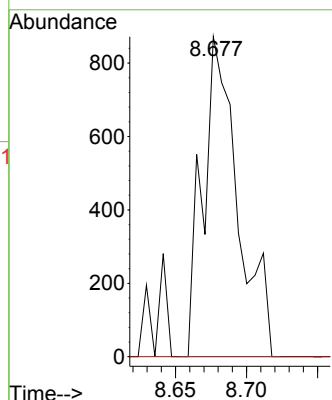
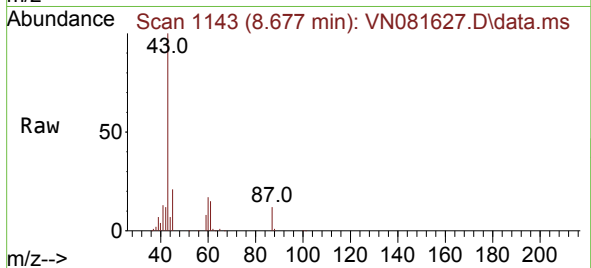
PB159859ZHE#05

Tgt Ion: 62 Resp: 1493

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.0



#43

Isopropyl Acetate

Concen: 35.152 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN081627.D

Acq: 29 Mar 2024 19:53

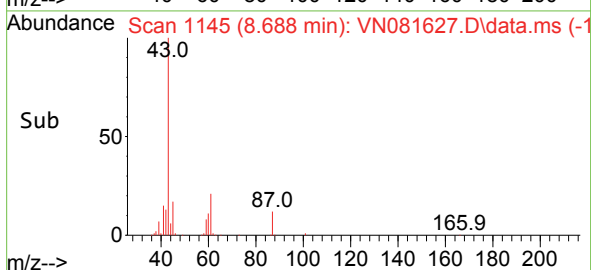
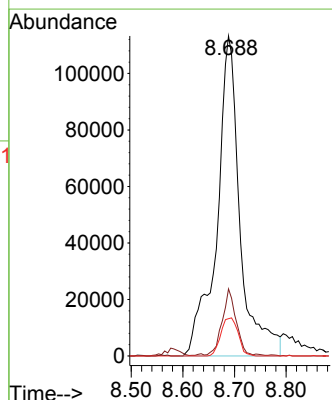
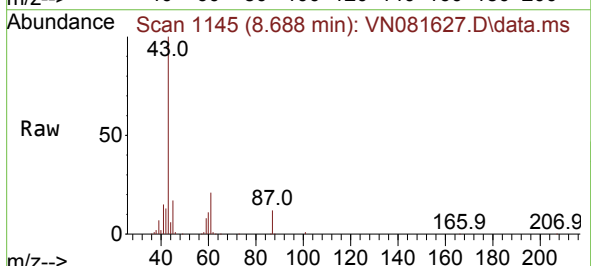
Tgt Ion: 43 Resp: 352210

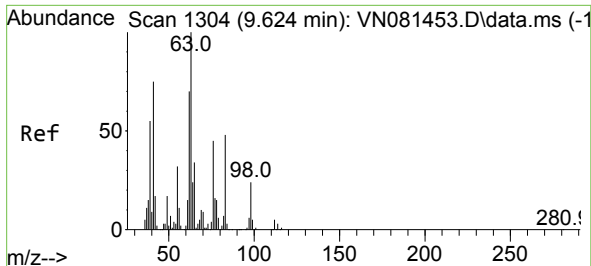
Ion Ratio Lower Upper

43 100

61 12.6 19.9 29.9#

87 8.9 9.0 13.6#





#45

1,2-Dichloropropane

Concen: 0.553 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.124 min

Lab File: VN081627.D

Acq: 29 Mar 2024 19:53

Instrument :

MSVOA_N

ClientSampleId :

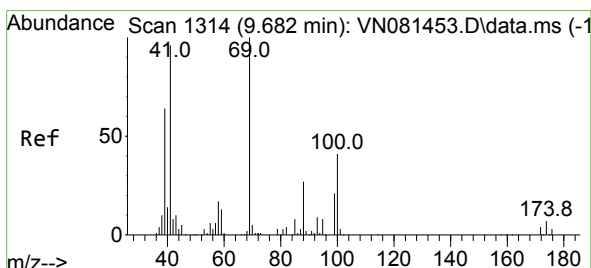
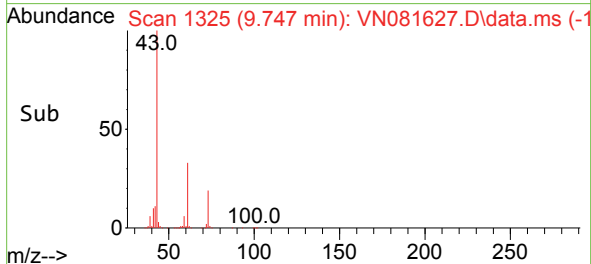
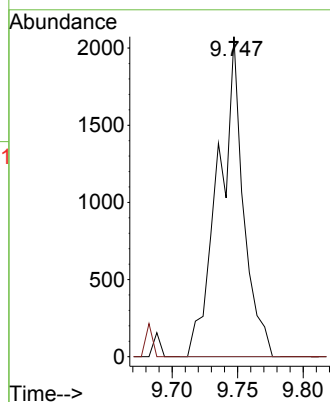
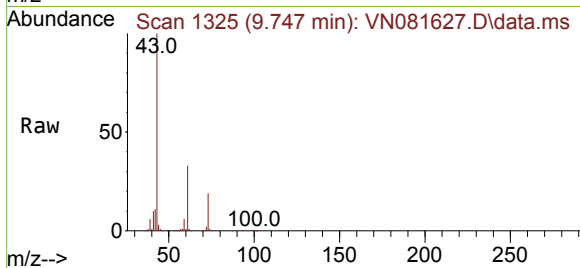
PB159859ZHE#05

Tgt Ion: 63 Resp: 2765

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 39.663 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.059 min

Lab File: VN081627.D

Acq: 29 Mar 2024 19:53

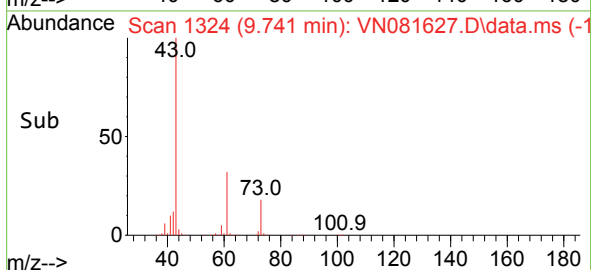
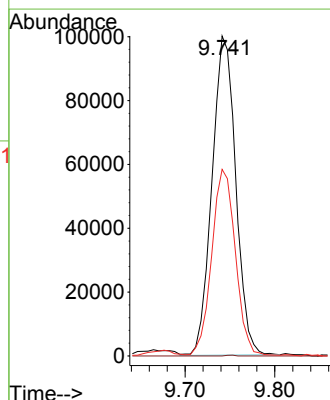
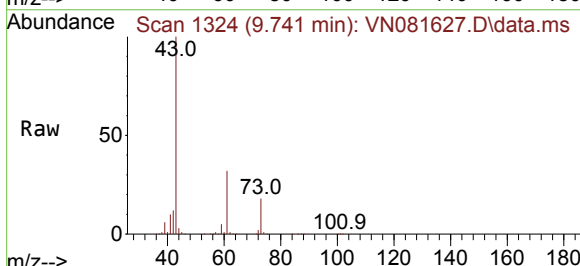
Tgt Ion: 41 Resp: 183299

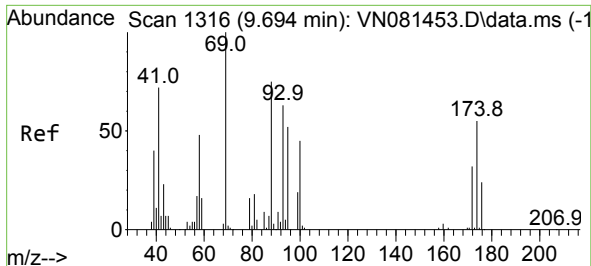
Ion Ratio Lower Upper

41 100

69 0.1 62.2 93.2#

39 58.0 47.6 71.4





#49

1,4-Dioxane

Concen: 1.171 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN081627.D

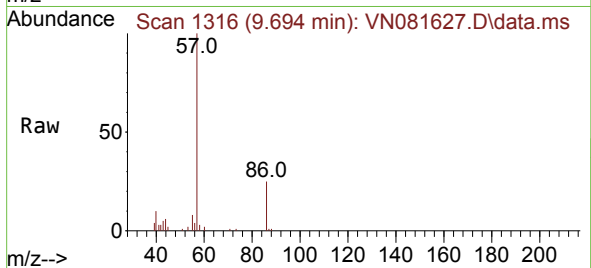
Acq: 29 Mar 2024 19:53

Instrument :

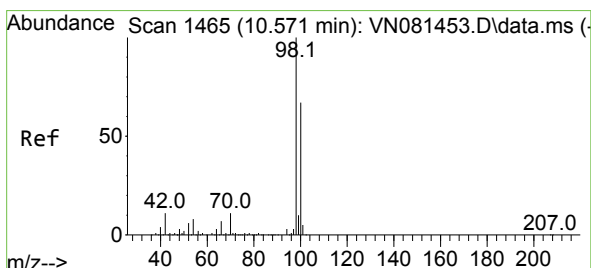
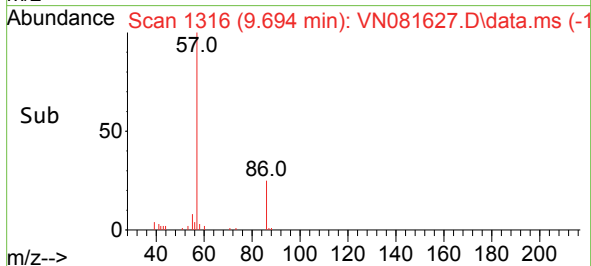
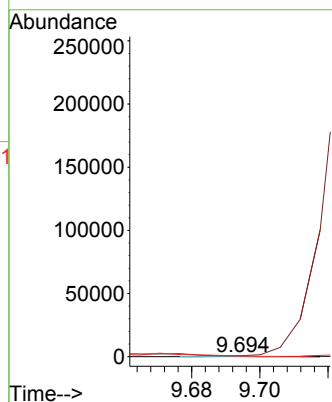
MSVOA_N

ClientSampleId :

PB159859ZHE#05



Tgt Ion:	88	Resp:	130
Ion	Ratio	Lower	Upper
88	100		
43	0.0	30.1	45.1#
58	0.0	63.9	95.9#



#50

Toluene-d8

Concen: 54.010 ug/l

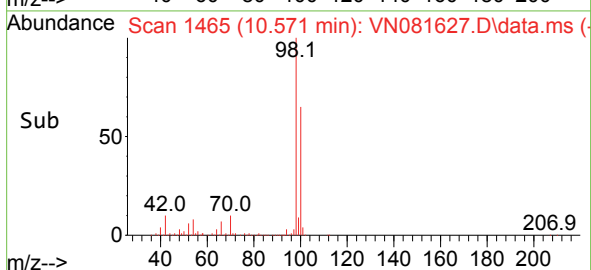
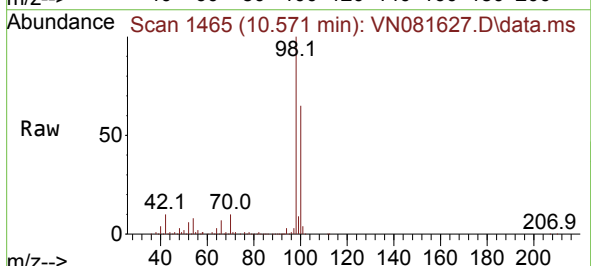
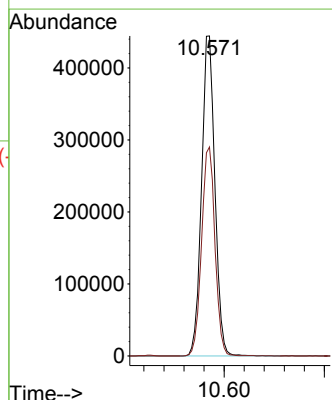
RT: 10.571 min Scan# 1465

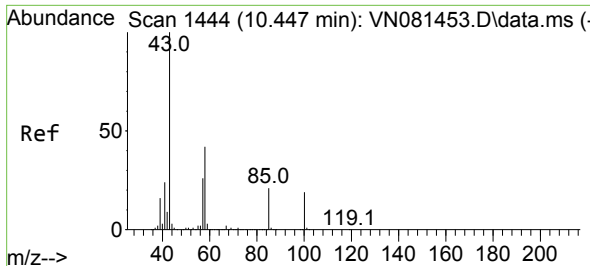
Delta R.T. 0.000 min

Lab File: VN081627.D

Acq: 29 Mar 2024 19:53

Tgt Ion:	98	Resp:	818953
Ion	Ratio	Lower	Upper
98	100		
100	65.6	51.4	77.0

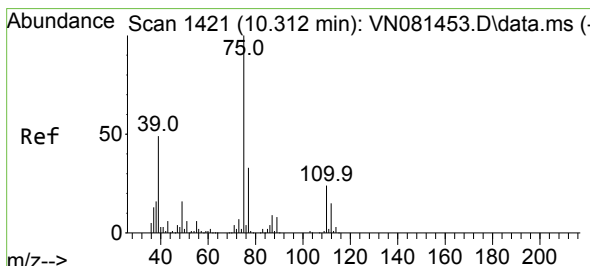
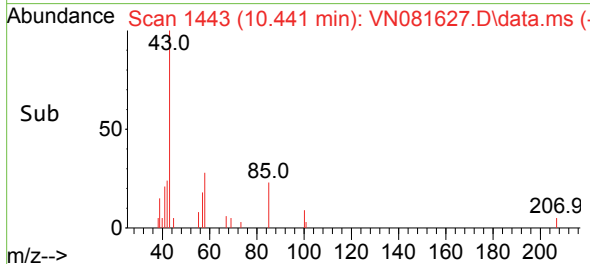
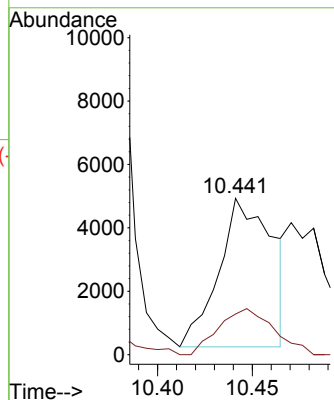
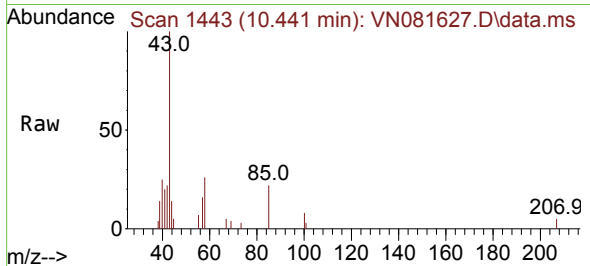




#51
4-Methyl-2-Pentanone
Concen: 1.507 ug/l
RT: 10.441 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

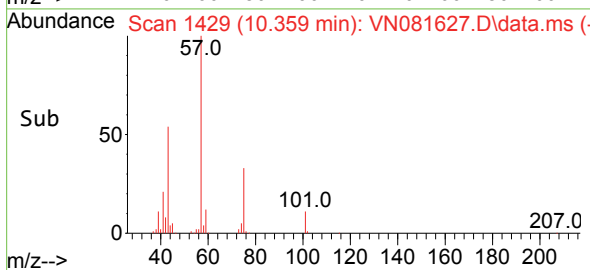
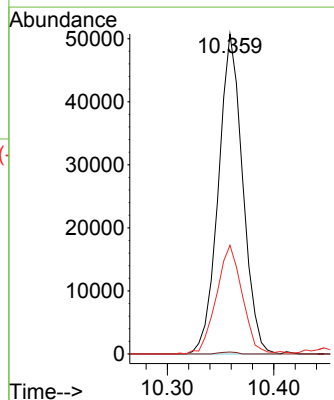
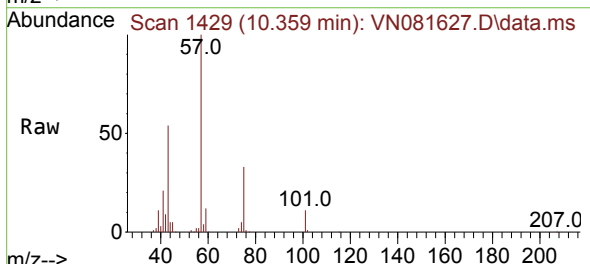
Instrument :
MSVOA_N
ClientSampleId :
PB159859ZHE#05

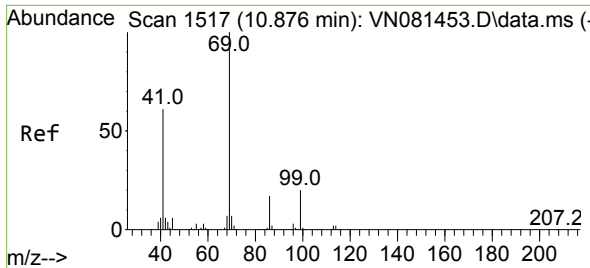
Tgt Ion: 43 Resp: 9211
Ion Ratio Lower Upper
43 100
58 31.8 29.4 44.0



#54
cis-1,3-Dichloropropene
Concen: 9.348 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

Tgt Ion: 75 Resp: 80371
Ion Ratio Lower Upper
75 100
77 0.6 23.3 34.9#
39 33.6 44.6 66.8#

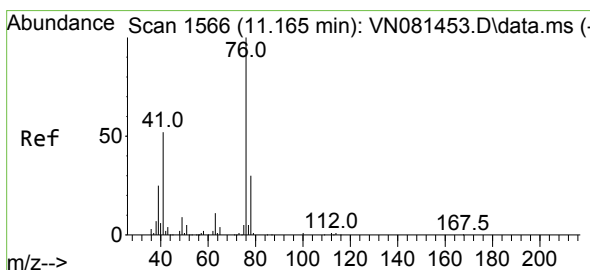
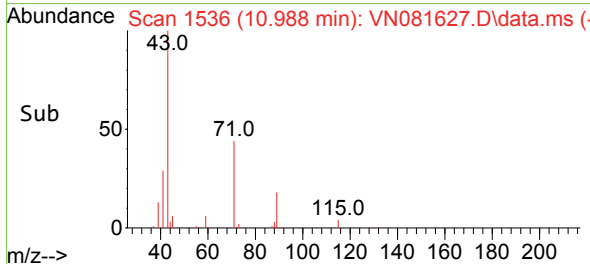
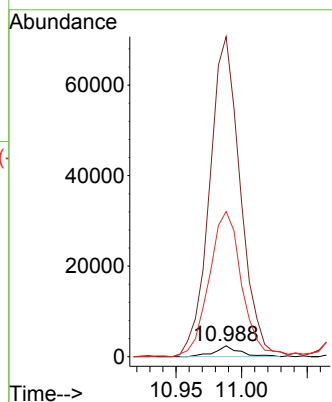
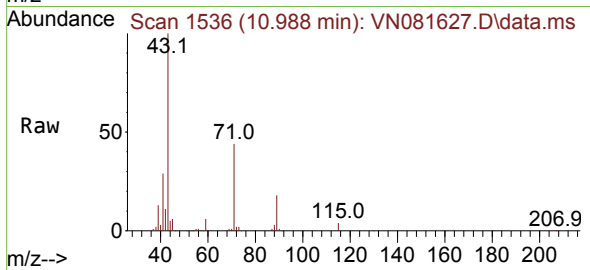




#56
Ethyl methacrylate
Concen: 1.016 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.112 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

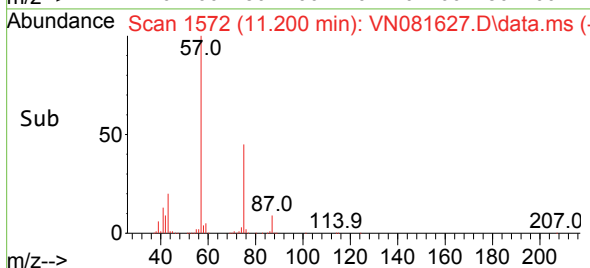
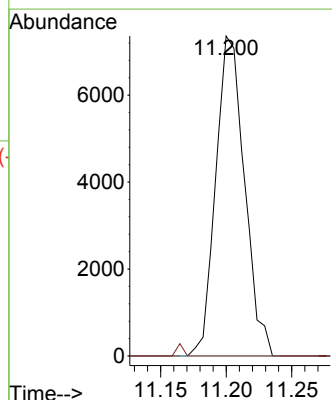
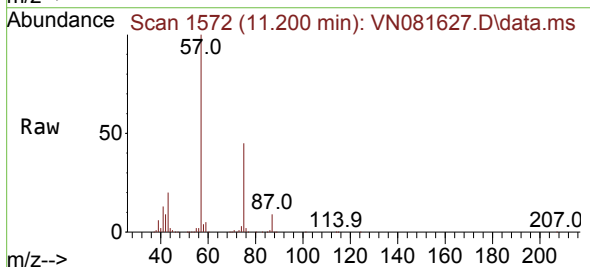
Instrument :
MSVOA_N
ClientSampleId :
PB159859ZHE#05

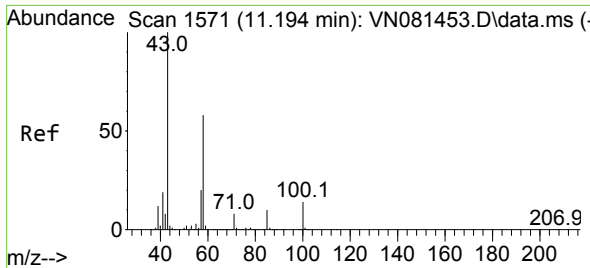
Tgt Ion: 69 Resp: 3193
Ion Ratio Lower Upper
69 100
41 3630.7 61.0 91.6#
39 1733.4 31.8 47.6#



#57
1,3-Dichloropropane
Concen: 1.294 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.035 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

Tgt Ion: 76 Resp: 11195
Ion Ratio Lower Upper
76 100
78 0.0 25.5 38.3#

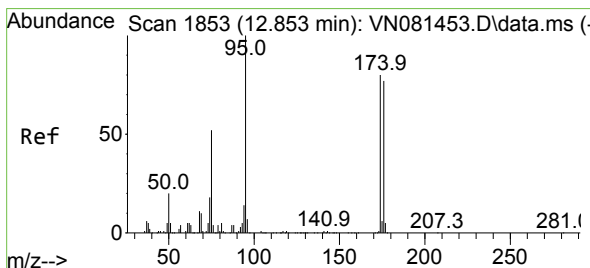
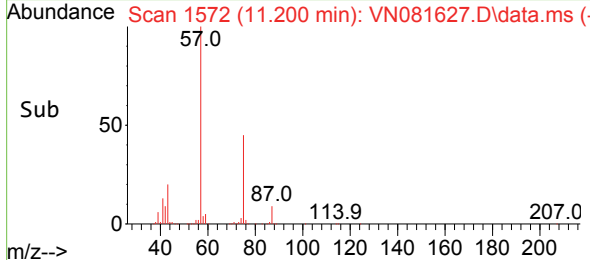
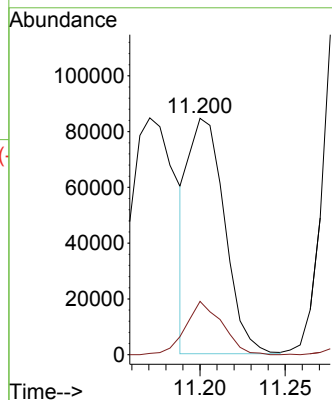
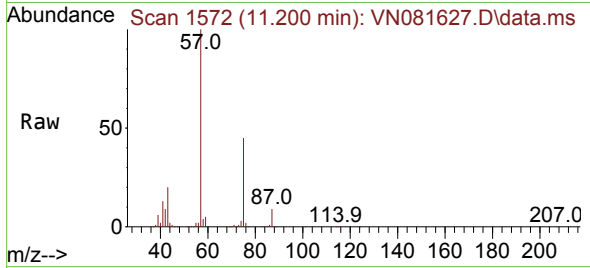




#59
2-Hexanone
Concen: 27.548 ug/l
RT: 11.200 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

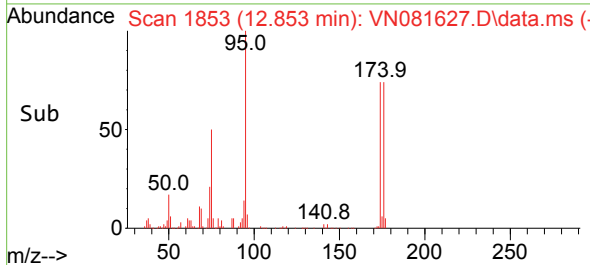
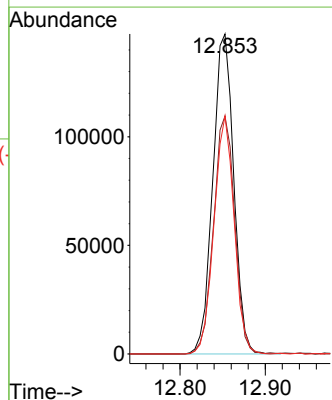
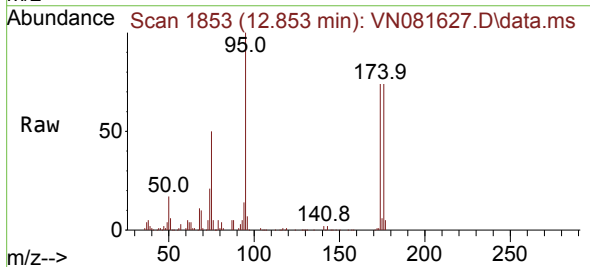
Instrument :
MSVOA_N
ClientSampleId :
PB159859ZHE#05

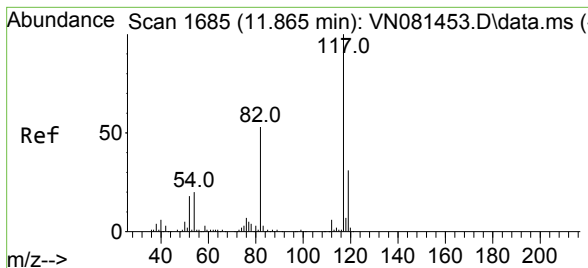
Tgt Ion: 43 Resp: 124525
Ion Ratio Lower Upper
43 100
58 23.0 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 47.086 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

Tgt Ion: 95 Resp: 251573
Ion Ratio Lower Upper
95 100
174 75.3 0.0 120.4
176 71.7 0.0 121.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN081627.D

Acq: 29 Mar 2024 19:53

Instrument :

MSVOA_N

ClientSampleId :

PB159859ZHE#05

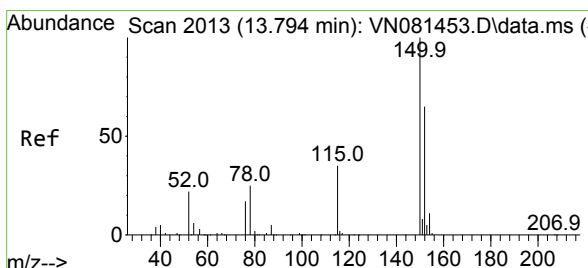
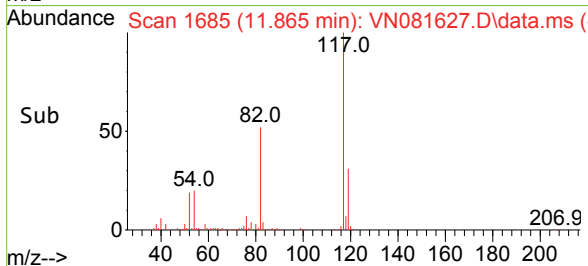
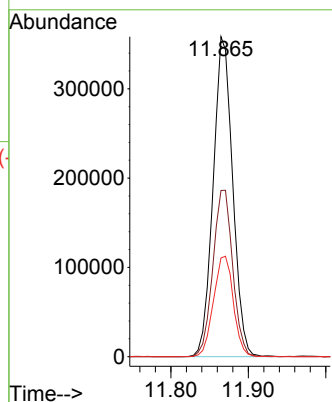
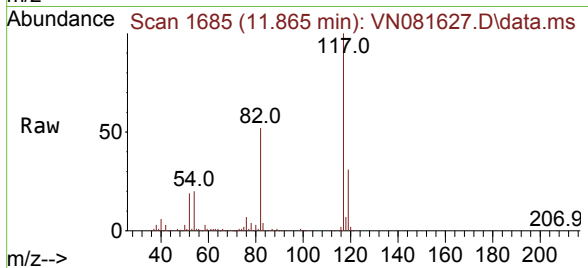
Tgt Ion:117 Resp: 627323

Ion Ratio Lower Upper

117 100

82 51.9 52.7 79.1#

119 30.8 25.3 37.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN081627.D

Acq: 29 Mar 2024 19:53

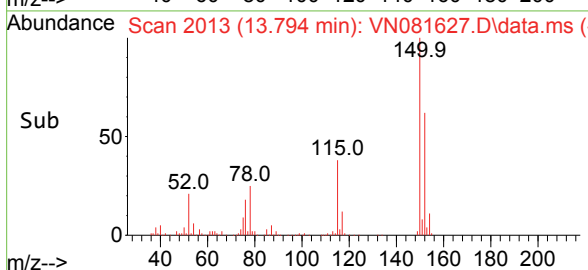
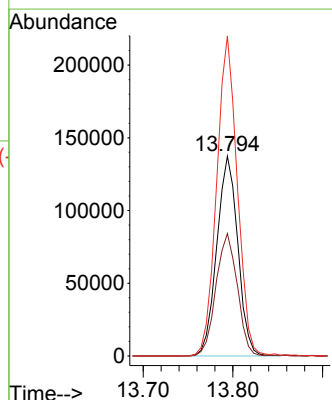
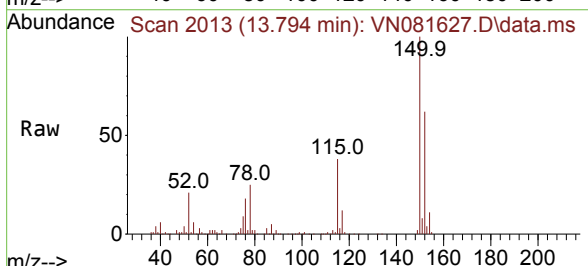
Tgt Ion:152 Resp: 223603

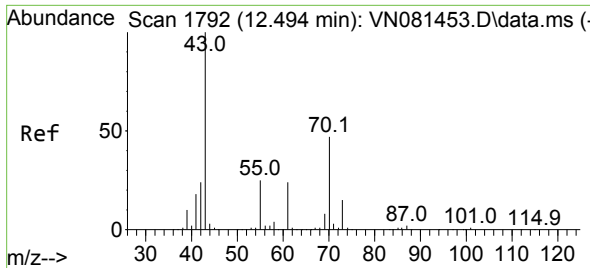
Ion Ratio Lower Upper

152 100

115 62.1 32.3 96.8

150 157.1 0.0 339.8

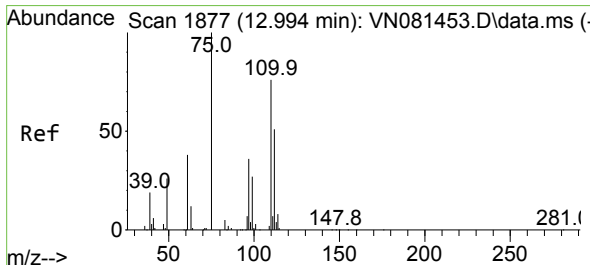
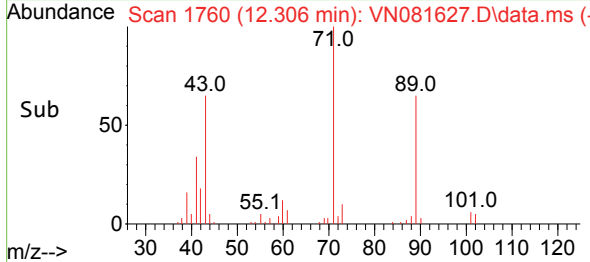
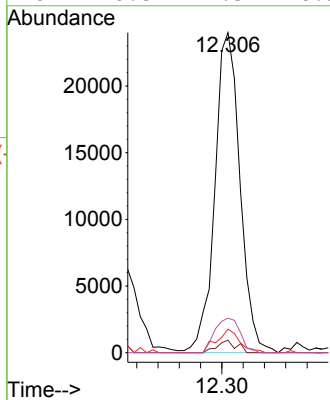
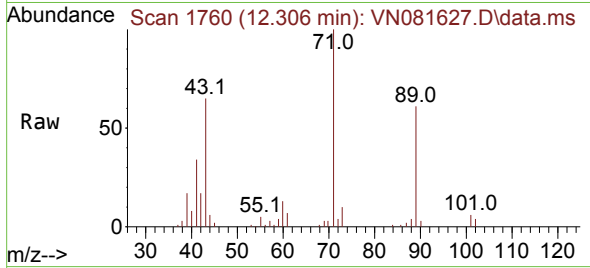




#74
N-amy1 acetate
Concen: 5.698 ug/l
RT: 12.306 min Scan# 1760
Delta R.T. -0.188 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

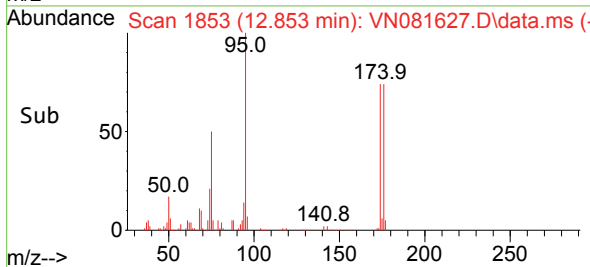
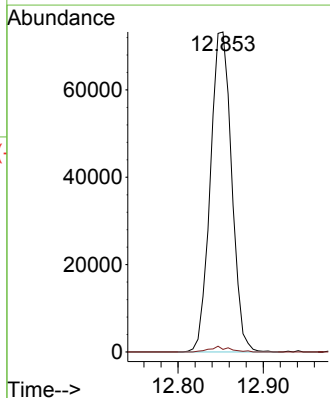
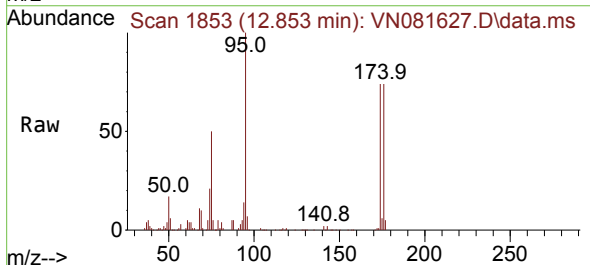
Instrument :
MSVOA_N
ClientSampleId :
PB159859ZHE#05

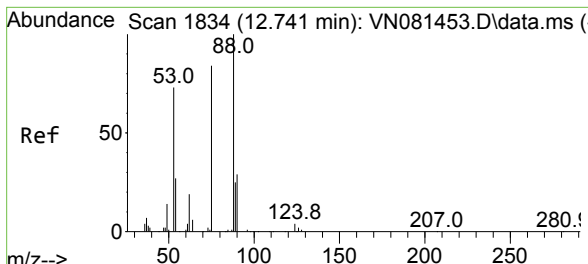
Tgt Ion: 43 Resp: 39305
Ion Ratio Lower Upper
43 100
70 3.0 30.1 45.1#
55 6.7 17.0 25.4#
61 10.8 17.5 26.3#



#76
1,2,3-Trichloropropane
Concen: 23.795 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN081627.D
Acq: 29 Mar 2024 19:53

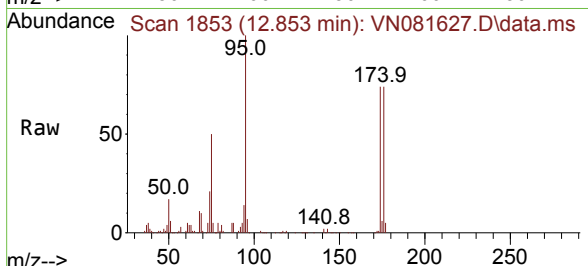
Tgt Ion: 75 Resp: 127272
Ion Ratio Lower Upper
75 100
77 1.6 91.0 272.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.302 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN081627.D
 Acq: 29 Mar 2024 19:53

Instrument :
 MSVOA_N
 ClientSampleId :
 PB159859ZHE#05



Tgt Ion: 75 Resp: 127272
 Ion Ratio Lower Upper
 75 100
 53 0.2 71.4 107.2#
 89 0.1 33.4 50.0#

