

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051324\
 Data File : VN082096.D
 Acq On : 13 May 2024 15:10
 Operator : JC\MD
 Sample : P2442-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 240508039-01

Quant Time: May 14 03:33:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 27 04:37:27 2024
 Response via : Initial Calibration

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

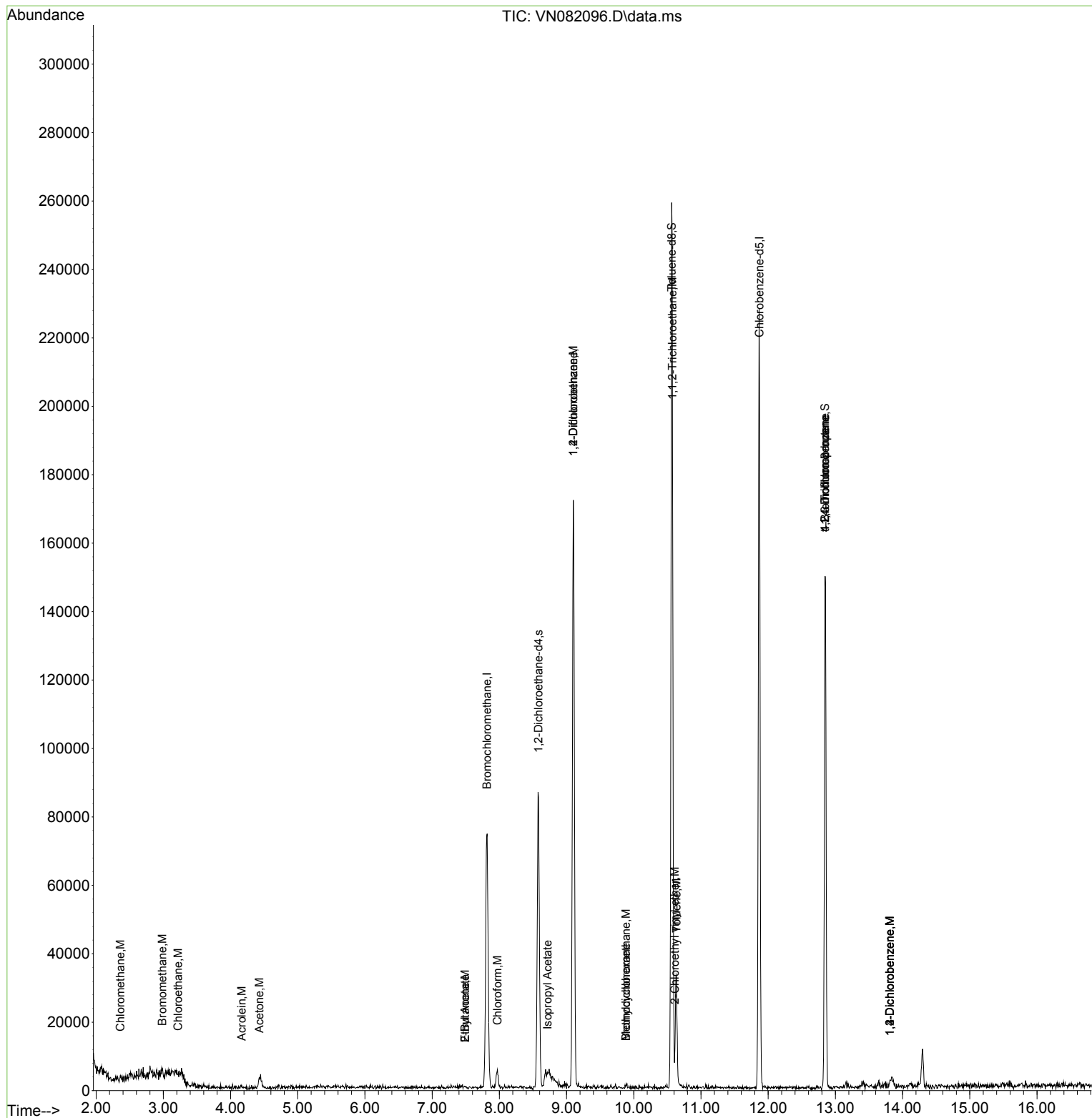
Internal Standards						
1) Bromochloromethane	7.818	128	23713	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	136977	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	113714	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	65627	33.055	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	110.200%#
60) 4-Bromofluorobenzene	12.847	95	53448	28.243	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.133%
63) Toluene-d8	10.565	98	172362	31.917	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	106.400%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	323	0.207	ug/l #	43
5) Bromomethane	2.983	94	155	0.201	ug/l	93
6) Chloroethane	3.218	64	195	0.234	ug/l #	41
13) Acrolein	4.165	56	264	0.685	ug/l #	79
15) Acetone	4.430	58	642	3.464	ug/l #	1
25) Chloroform	7.971	83	4513	1.576	ug/l	87
30) 2-Butanone	7.488	43	577	0.549	ug/l #	52
36) 1,2-Dichloroethane	9.100	62	6479	2.967	ug/l #	72
38) Methylcyclohexane	9.882	83	524	0.213	ug/l #	19
41) Bromodichloromethane	9.882	83	524	0.229	ug/l #	88
43) Ethyl Acetate	7.488	43	577	0.252	ug/l #	67
44) Isopropyl Acetate	8.718	43	1878	0.462	ug/l #	43
50) 1,1,2-Trichloroethane	10.577	97	5510	3.787	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.612	63	379	0.276	ug/l #	1
62) Toluene	10.635	91	23372	3.653	ug/l	98
72) 1,2,3-Trichloropropane	12.847	75	28900	16.440	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	28900	36.937	ug/l #	12
83) 1,3-Dichlorobenzene	13.812	146	742	0.295	ug/l #	59
84) 1,4-Dichlorobenzene	13.812	146	742	0.293	ug/l #	60
87) 1,2-Dichlorobenzene	13.812	146	742	0.296	ug/l #	60

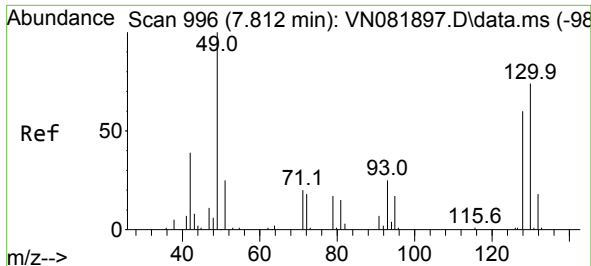
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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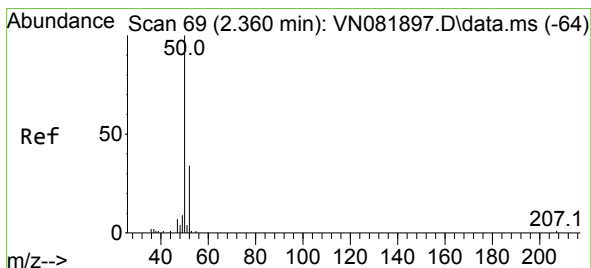
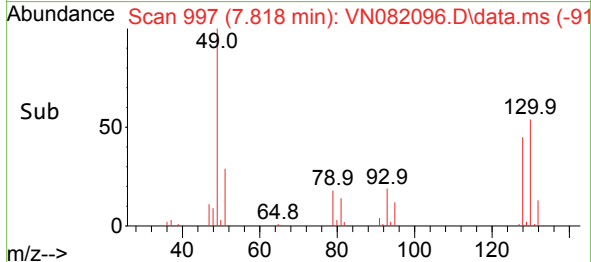
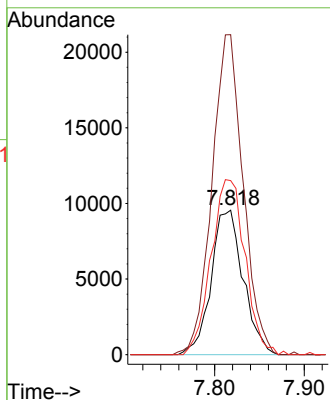
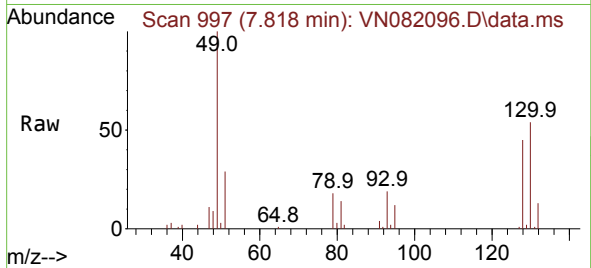




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

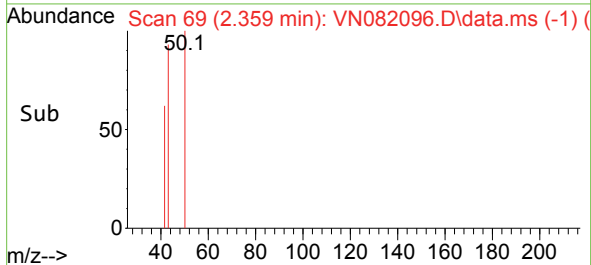
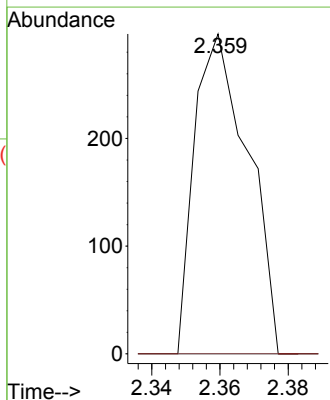
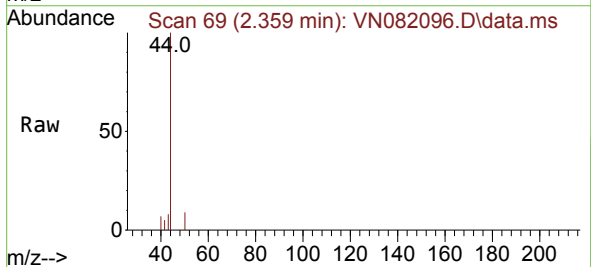
Instrument :
MSVOA_N
ClientSampleId :
240508039-01

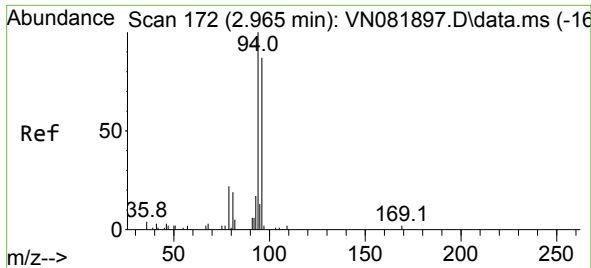
Tgt Ion:128 Resp: 23713
Ion Ratio Lower Upper
128 100
49 214.9 0.0 403.7
130 128.1 0.0 323.3



#3
Chloromethane
Concen: 0.207 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

Tgt Ion: 50 Resp: 323
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.0#

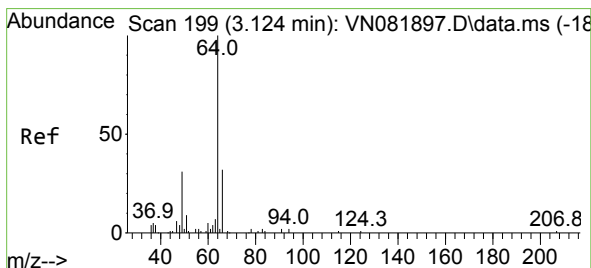
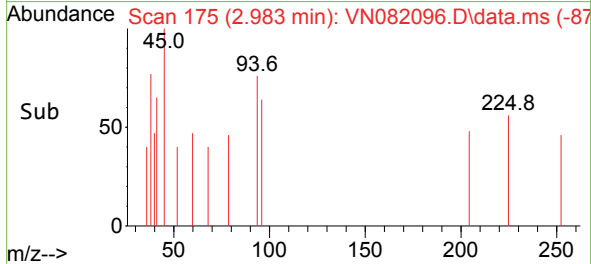
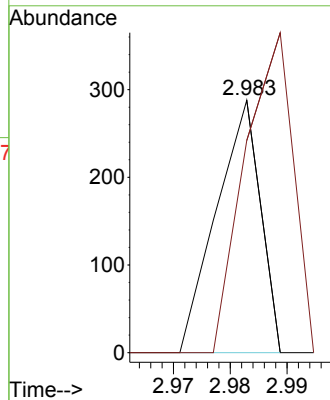
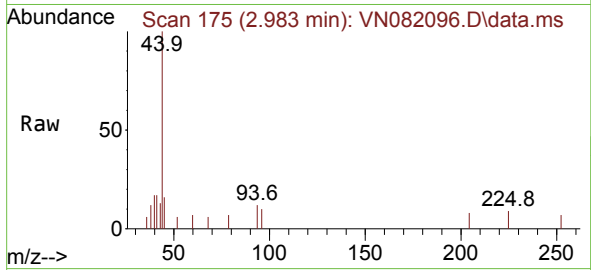




#5
Bromomethane
Concen: 0.201 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

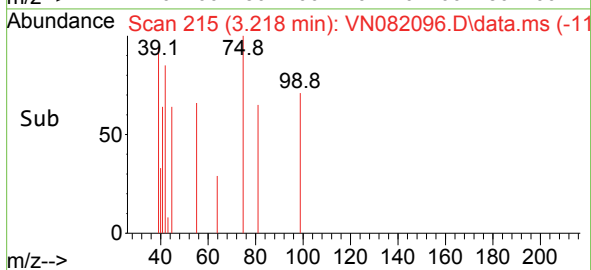
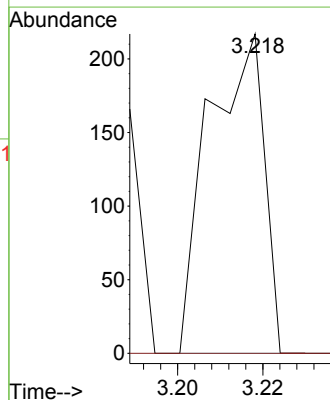
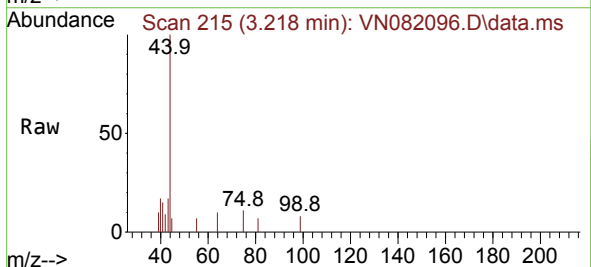
Instrument :
MSVOA_N
ClientSampleId :
240508039-01

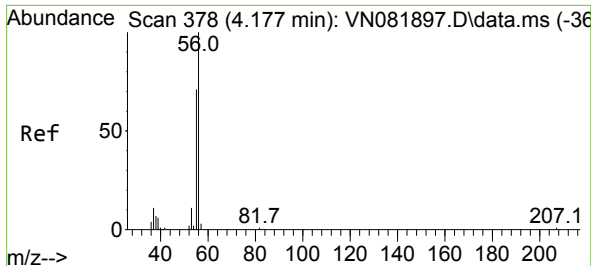
Tgt Ion: 94 Resp: 155
Ion Ratio Lower Upper
94 100
96 84.0 72.8 109.2



#6
Chloroethane
Concen: 0.234 ug/l
RT: 3.218 min Scan# 215
Delta R.T. 0.094 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

Tgt Ion: 64 Resp: 195
Ion Ratio Lower Upper
64 100
66 0.0 26.7 40.1#

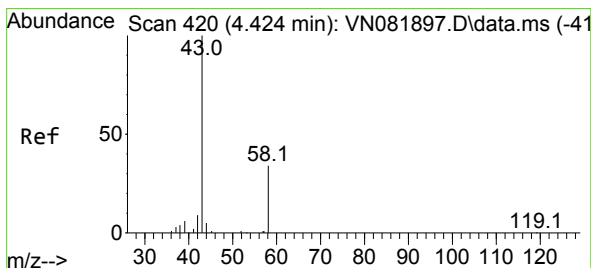
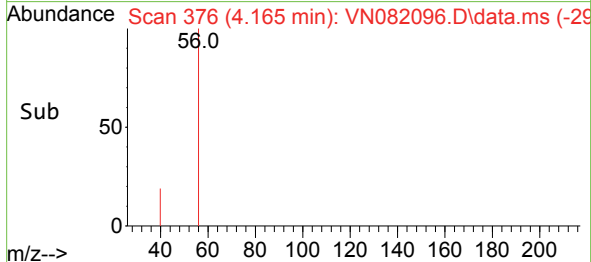
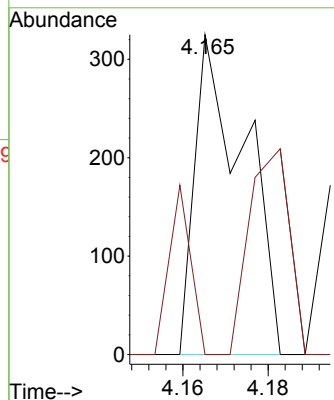
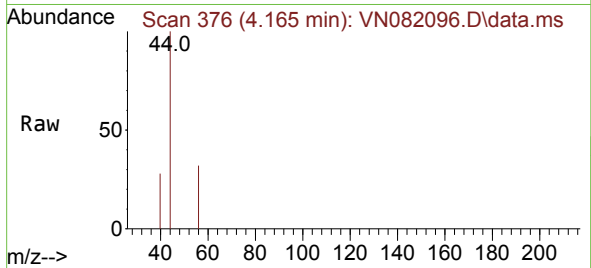




#13
Acrolein
Concen: 0.685 ug/l
RT: 4.165 min Scan# 31
Delta R.T. -0.012 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

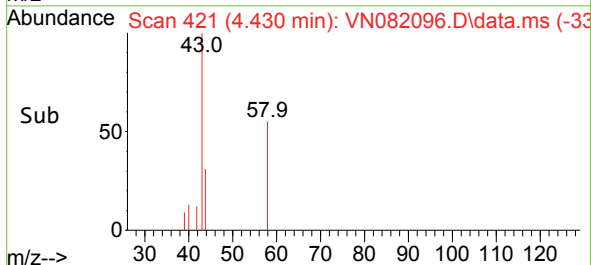
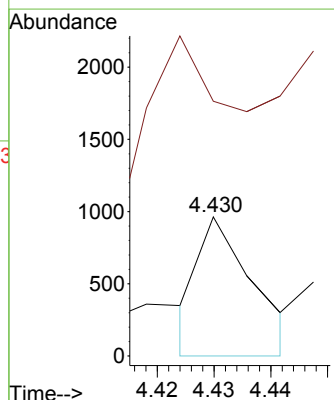
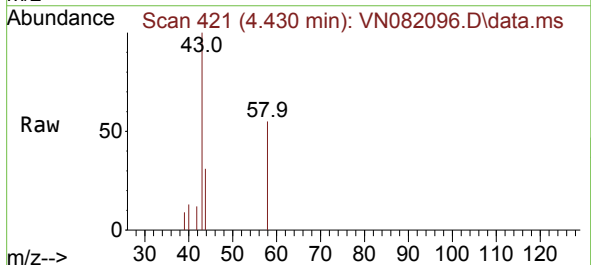
Instrument :
MSVOA_N
ClientSampleId :
240508039-01

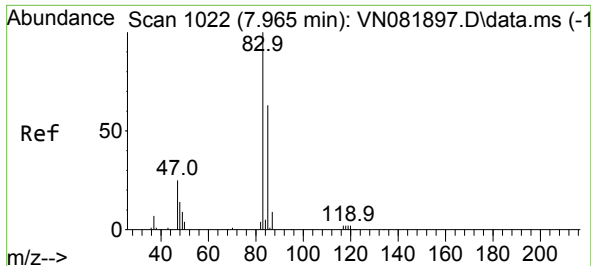
Tgt Ion: 56 Resp: 264
Ion Ratio Lower Upper
56 100
55 51.9 55.5 83.3#



#15
Acetone
Concen: 3.464 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

Tgt Ion: 58 Resp: 642
Ion Ratio Lower Upper
58 100
43 0.0 223.1 334.7#

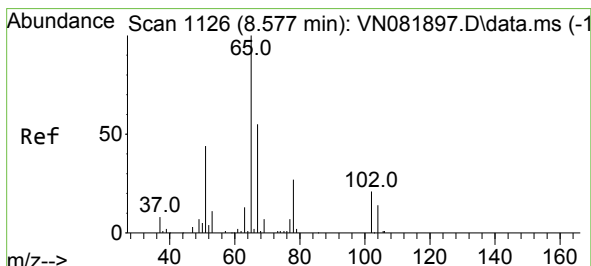
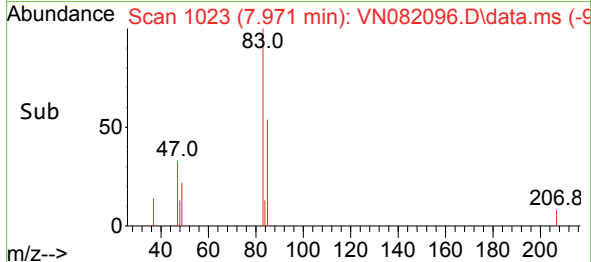
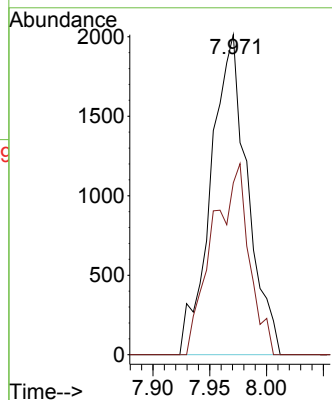
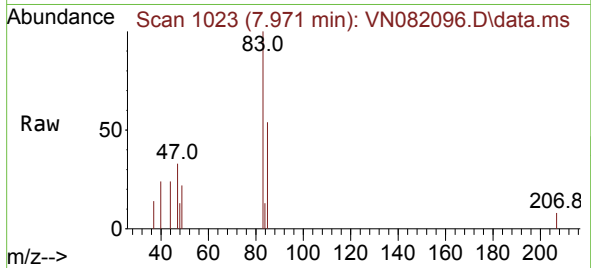




#25
Chloroform
Concen: 1.576 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

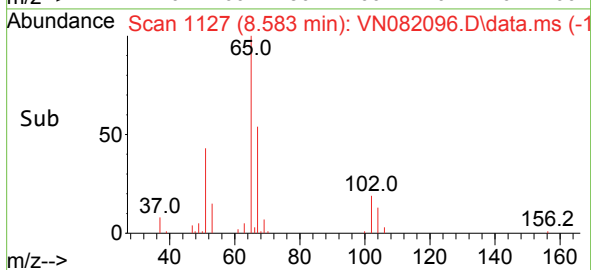
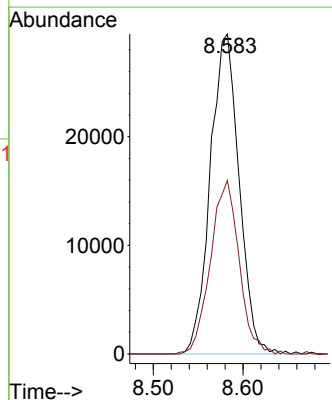
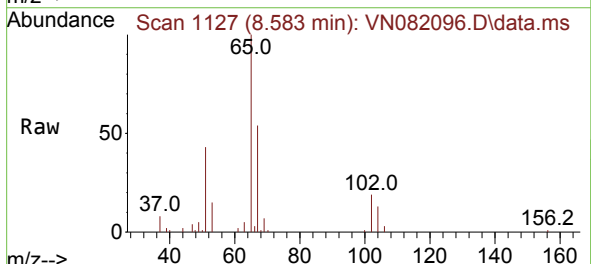
Instrument :
MSVOA_N
ClientSampleId :
240508039-01

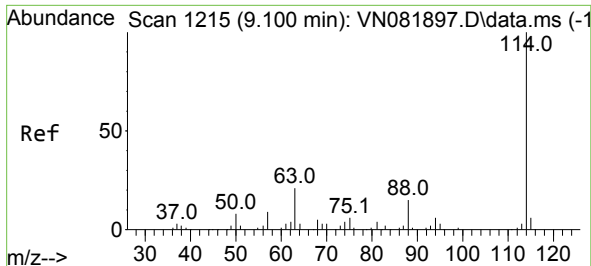
Tgt Ion: 83 Resp: 4513
Ion Ratio Lower Upper
83 100
85 53.7 50.9 76.3



#27
1,2-Dichloroethane-d4
Concen: 33.055 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

Tgt Ion: 65 Resp: 65627
Ion Ratio Lower Upper
65 100
67 53.9 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 114

Delta R.T. -0.000 min

Lab File: VN082096.D

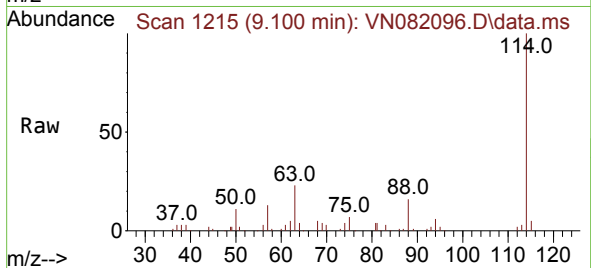
Acq: 13 May 2024 15:10

Instrument :

MSVOA_N

ClientSampleId :

240508039-01



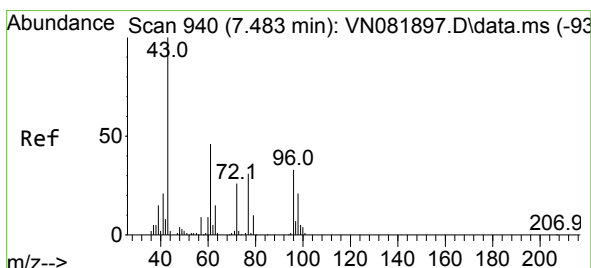
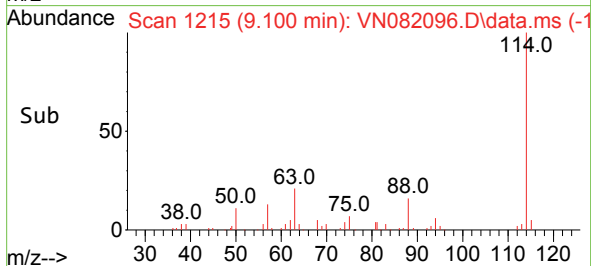
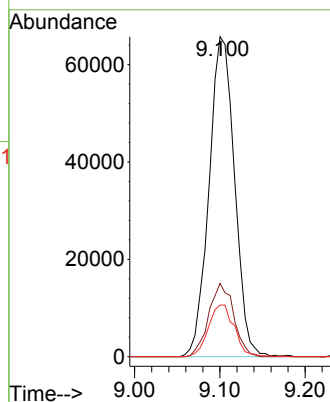
Tgt Ion:114 Resp: 136977

Ion Ratio Lower Upper

114 100

63 22.4 15.9 23.9

88 16.4 12.7 19.1



#30

2-Butanone

Concen: 0.549 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN082096.D

Acq: 13 May 2024 15:10

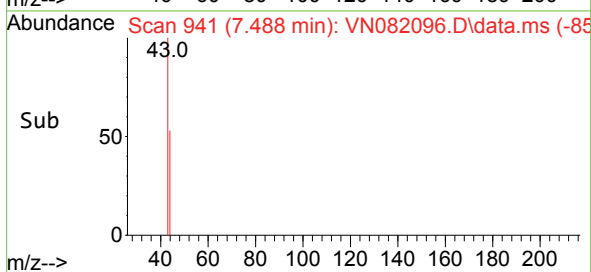
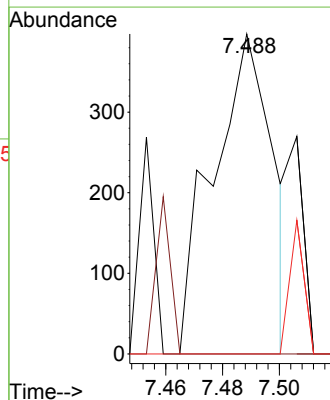
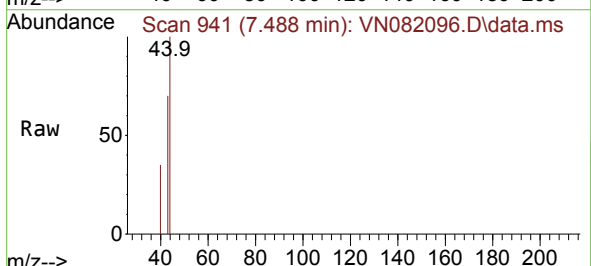
Tgt Ion: 43 Resp: 577

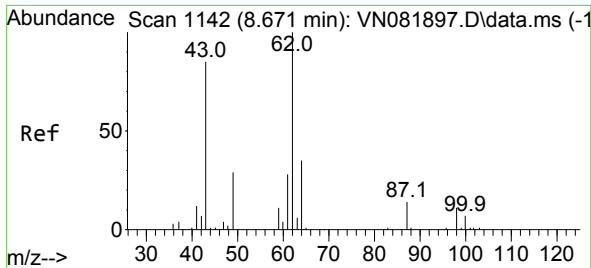
Ion Ratio Lower Upper

43 100

57 0.0 6.7 10.1#

72 0.0 24.0 36.0#





#36

1,2-Dichloroethane

Concen: 2.967 ug/l

RT: 9.100 min Scan# 1142

Delta R.T. 0.429 min

Lab File: VN082096.D

Acq: 13 May 2024 15:10

Instrument :

MSVOA_N

ClientSampleId :

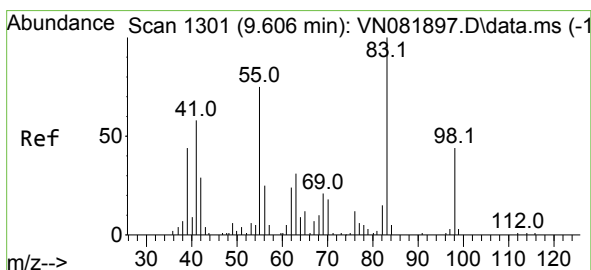
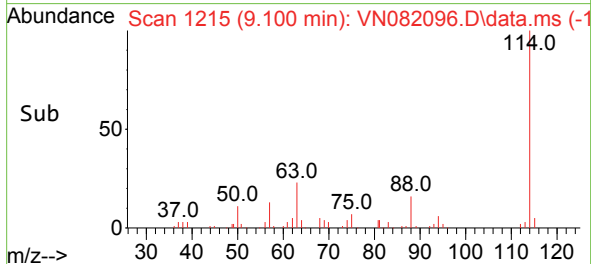
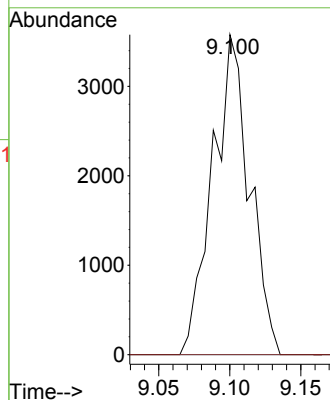
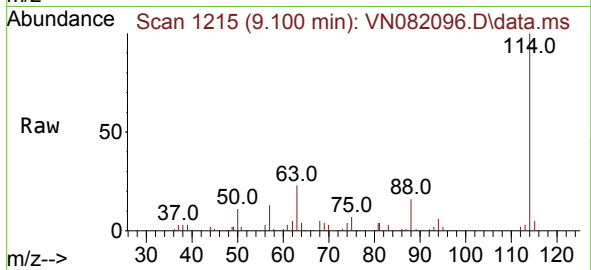
240508039-01

Tgt Ion: 62 Resp: 6479

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#38

Methylcyclohexane

Concen: 0.213 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.276 min

Lab File: VN082096.D

Acq: 13 May 2024 15:10

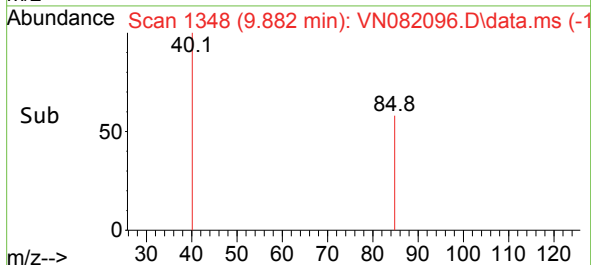
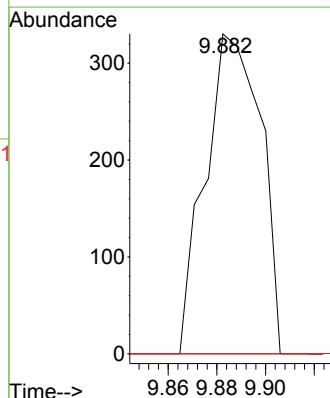
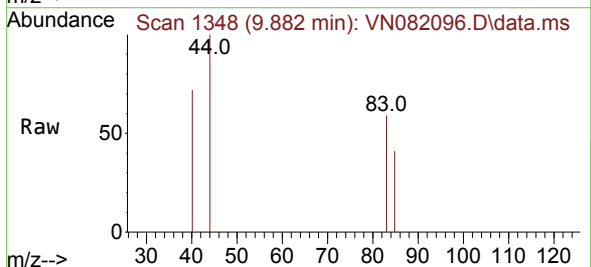
Tgt Ion: 83 Resp: 524

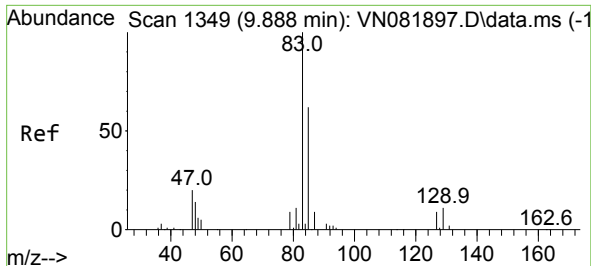
Ion Ratio Lower Upper

83 100

55 0.0 36.6 109.9#

98 0.0 23.8 71.5#

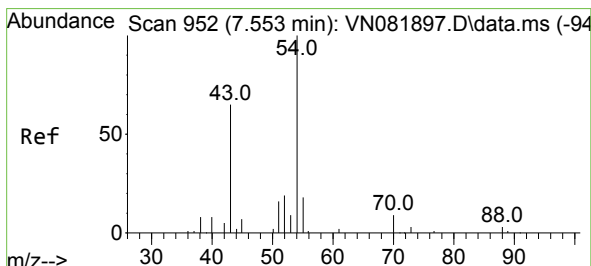
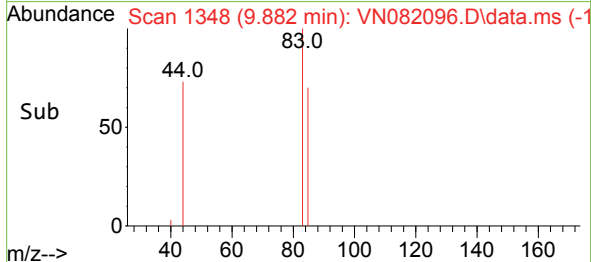
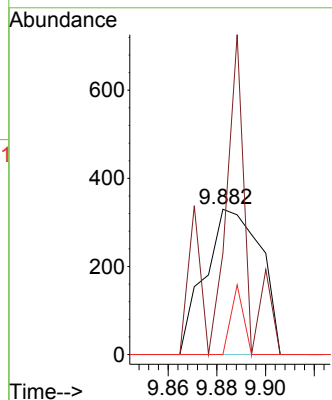
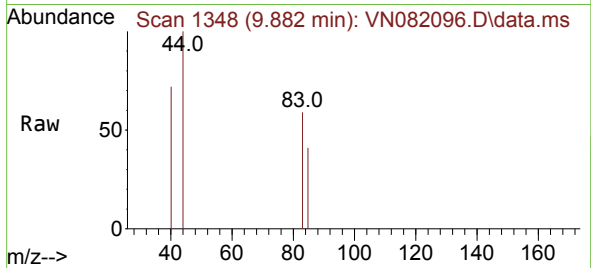




#41
Bromodichloromethane
Concen: 0.229 ug/l
RT: 9.882 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

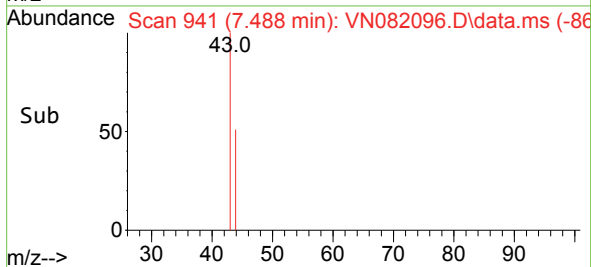
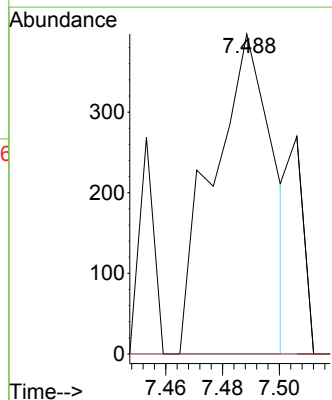
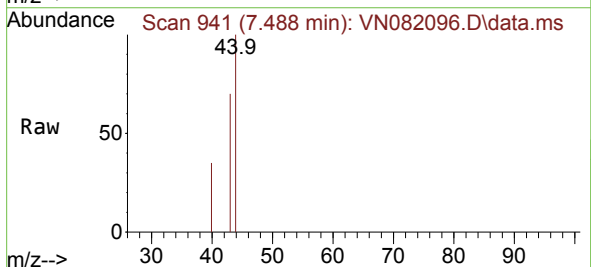
Instrument :
MSVOA_N
ClientSampleId :
240508039-01

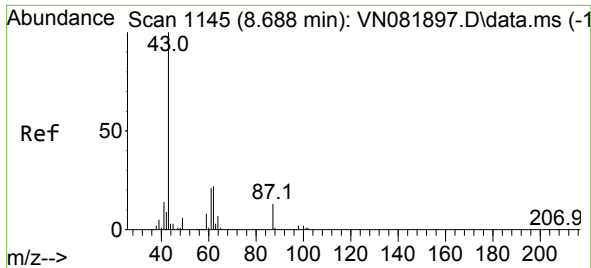
Tgt Ion: 83 Resp: 524
Ion Ratio Lower Upper
83 100
85 69.7 49.4 74.2
127 0.0 7.3 10.9#



#43
Ethyl Acetate
Concen: 0.252 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.065 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

Tgt Ion: 43 Resp: 577
Ion Ratio Lower Upper
43 100
45 0.0 10.6 15.8#

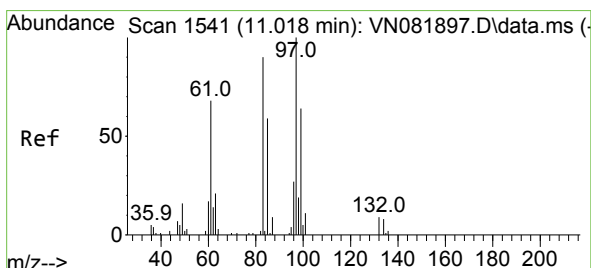
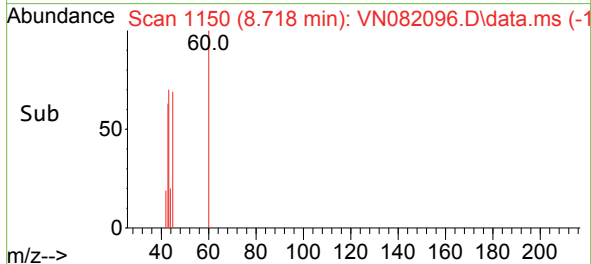
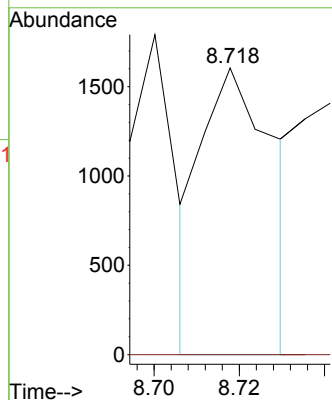
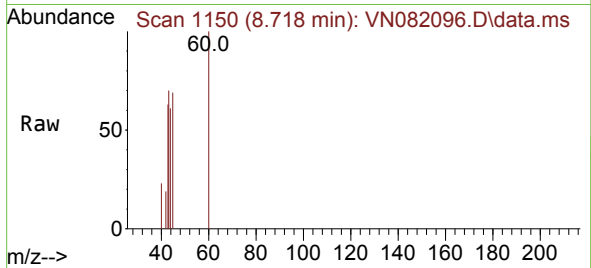




#44
Isopropyl Acetate
Concen: 0.462 ug/l
RT: 8.718 min Scan# 1145
Delta R.T. 0.029 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

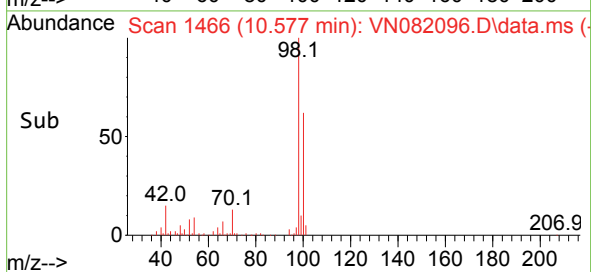
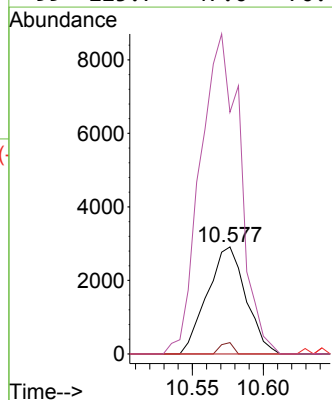
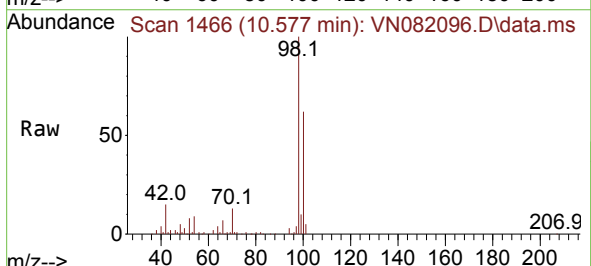
Instrument :
MSVOA_N
ClientSampleId :
240508039-01

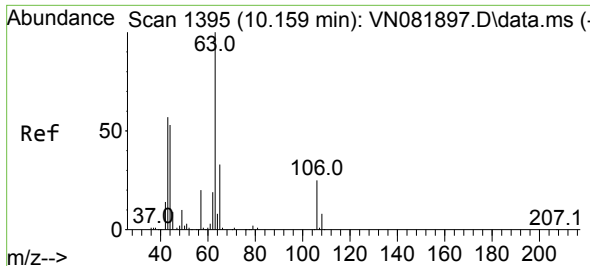
Tgt Ion: 43 Resp: 1878
Ion Ratio Lower Upper
43 100
61 0.0 25.0 37.4#



#50
1,1,2-Trichloroethane
Concen: 3.787 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. -0.441 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

Tgt Ion: 97 Resp: 5510
Ion Ratio Lower Upper
97 100
83 10.7 68.1 102.1#
85 0.0 41.8 62.6#
99 225.7 47.0 70.4#

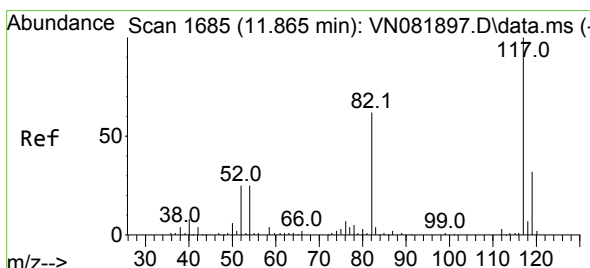
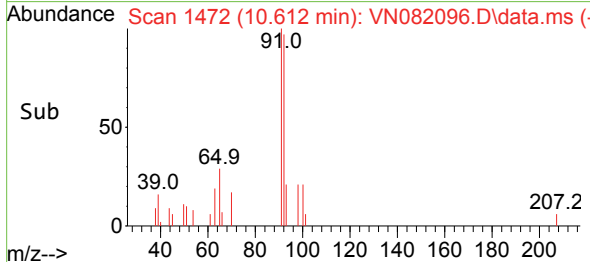
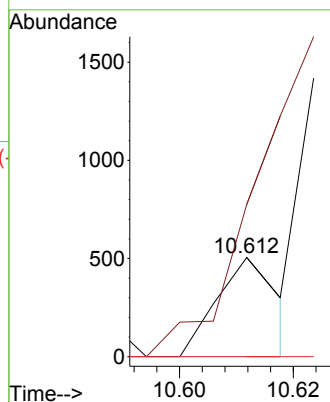
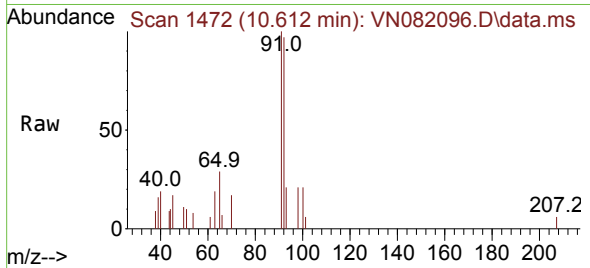




#55
2-Chloroethyl vinyl ether
Concen: 0.276 ug/l
RT: 10.612 min Scan# 14
Delta R.T. 0.453 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

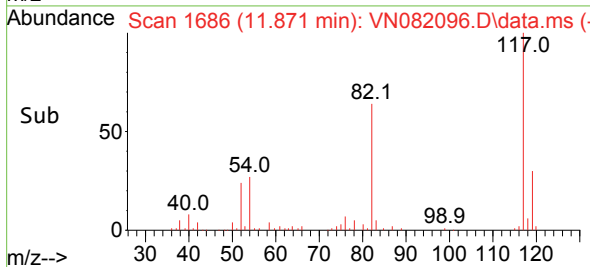
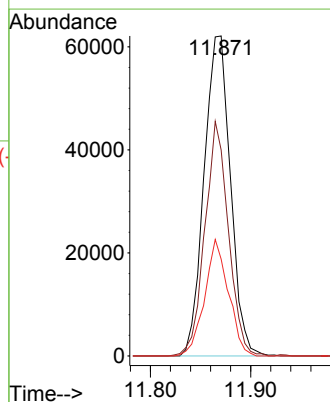
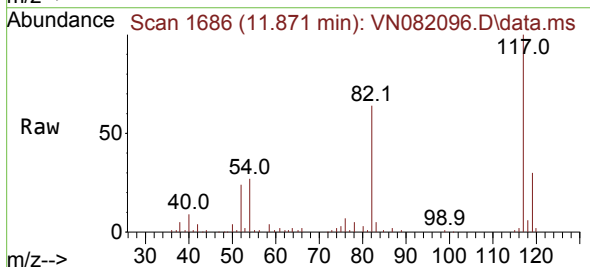
Instrument :
MSVOA_N
ClientSampleId :
240508039-01

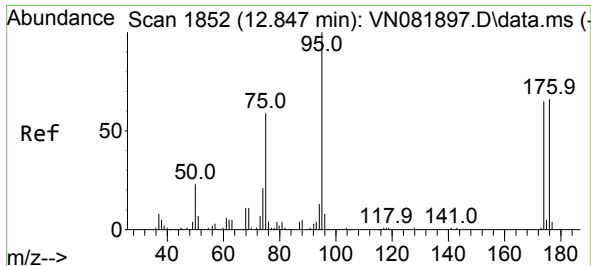
Tgt Ion: 63 Resp: 379
Ion Ratio Lower Upper
63 100
65 193.1 26.2 39.2#
106 0.0 23.8 35.8#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

Tgt Ion: 117 Resp: 113714
Ion Ratio Lower Upper
117 100
82 65.5 46.6 69.8
119 32.8 25.4 38.2

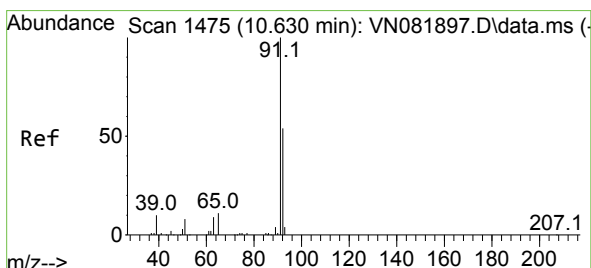
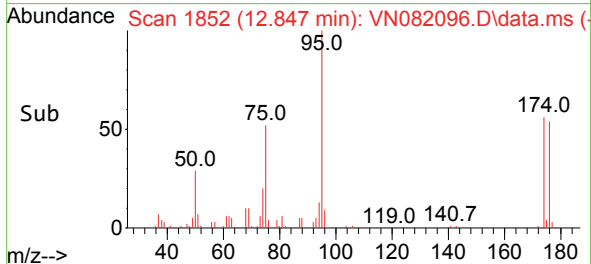
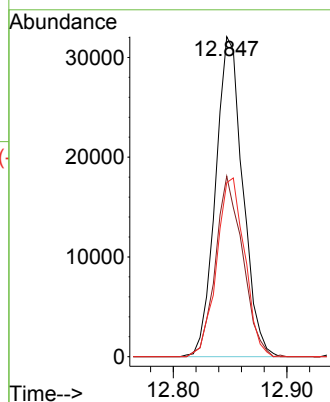
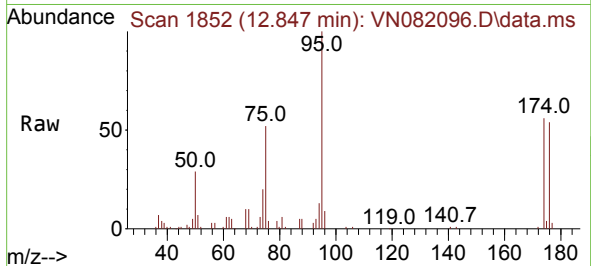




#60
4-Bromofluorobenzene
Concen: 28.243 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

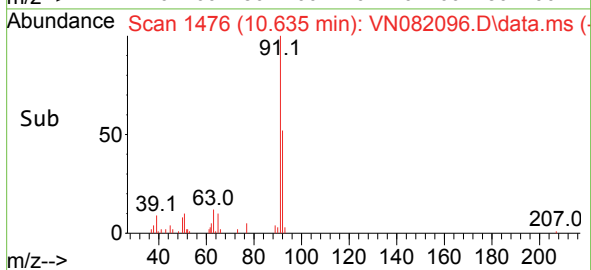
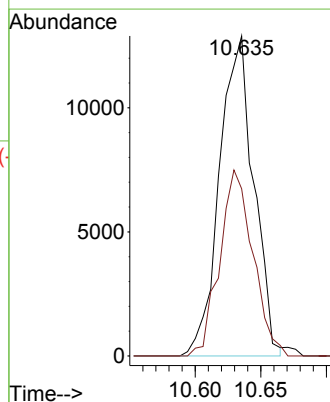
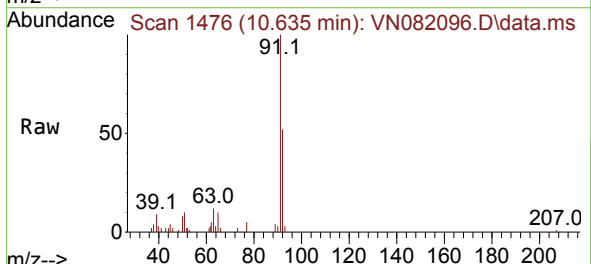
Instrument :
MSVOA_N
ClientSampleId :
240508039-01

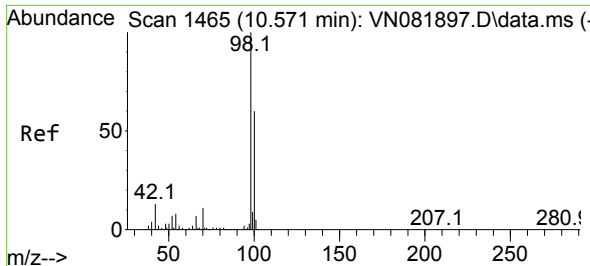
Tgt Ion: 95 Resp: 53448
Ion Ratio Lower Upper
95 100
174 56.2 60.5 90.7#
176 57.5 57.8 86.6#



#62
Toluene
Concen: 3.653 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

Tgt Ion: 91 Resp: 23372
Ion Ratio Lower Upper
91 100
92 56.5 46.5 69.7

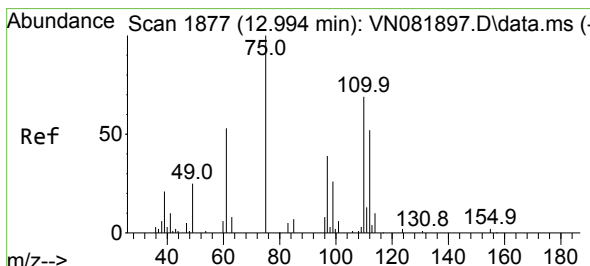
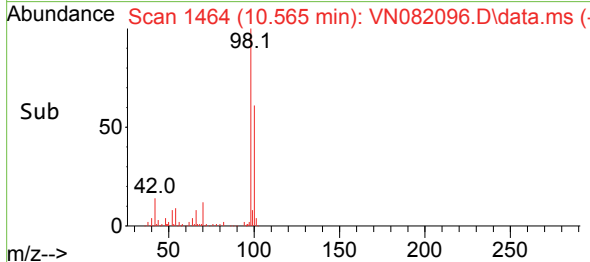
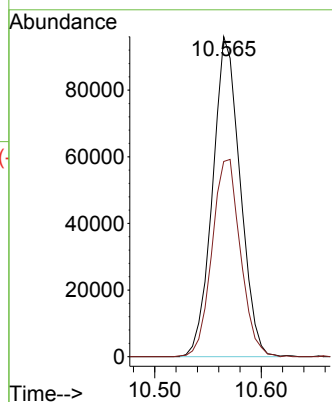
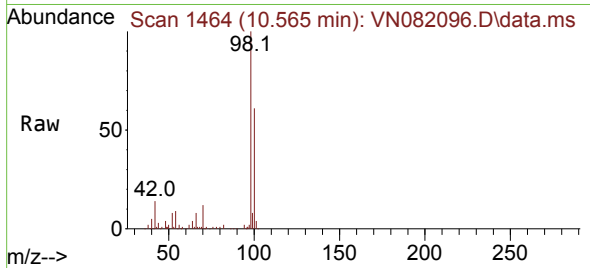




#63
Toluene-d8
Concen: 31.917 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

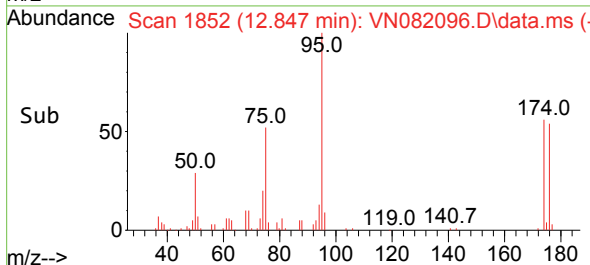
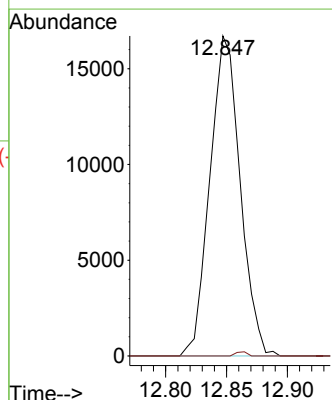
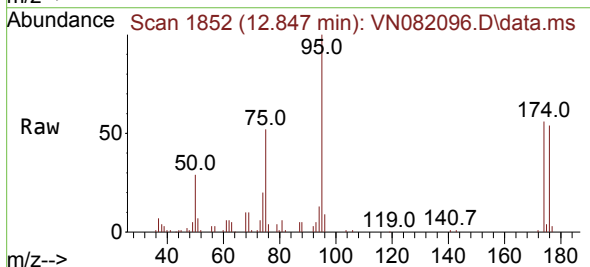
Instrument :
MSVOA_N
ClientSampleId :
240508039-01

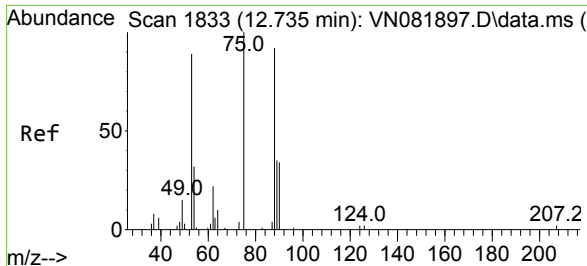
Tgt Ion: 98 Resp: 172362
Ion Ratio Lower Upper
98 100
100 63.6 52.7 79.1



#72
1,2,3-Trichloropropane
Concen: 16.440 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

Tgt Ion: 75 Resp: 28900
Ion Ratio Lower Upper
75 100
77 0.5 0.0 367.6

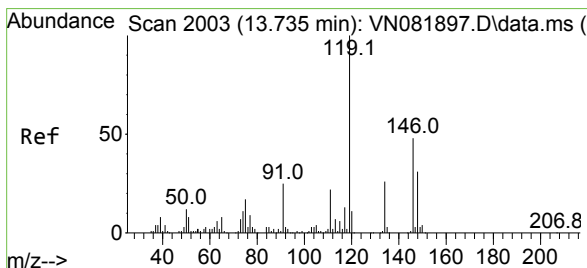
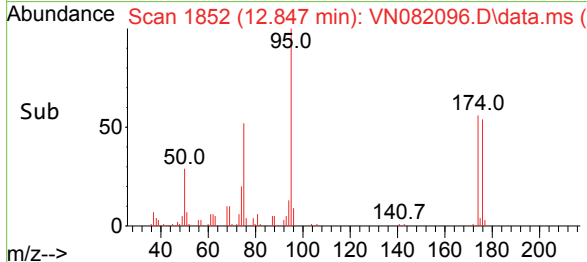
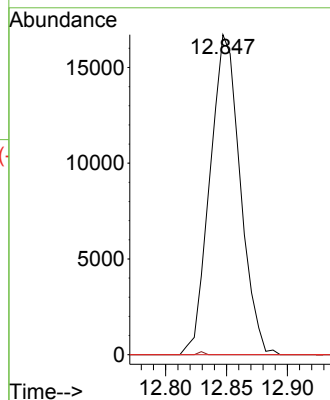
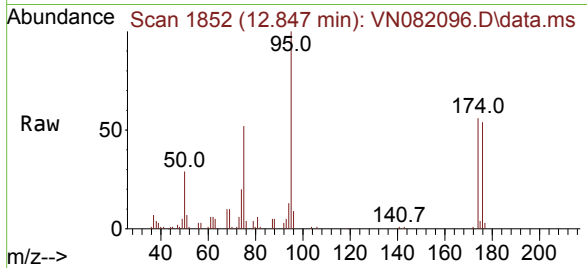




#77
t-1,4-Dichloro-2-butene
Concen: 36.937 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

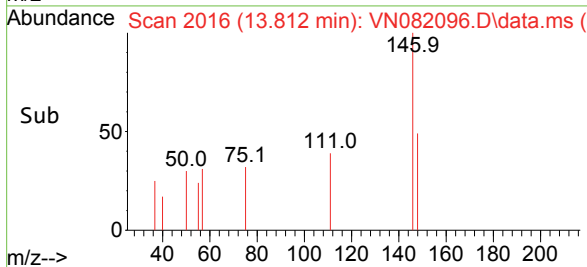
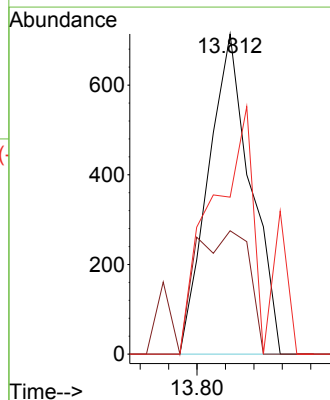
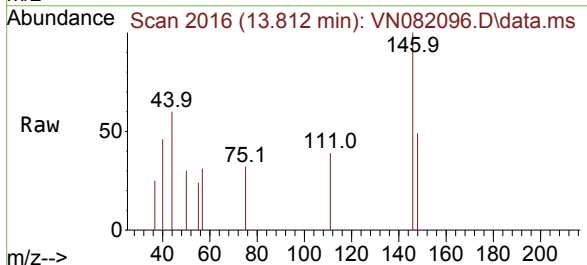
Instrument :
MSVOA_N
ClientSampleId :
240508039-01

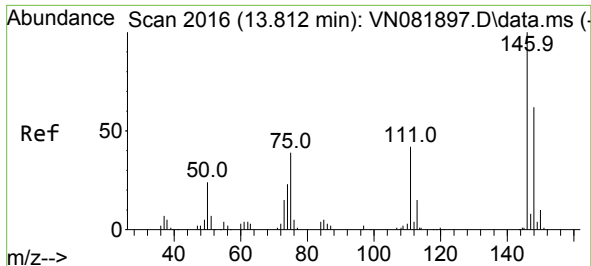
Tgt Ion: 75 Resp: 28900
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#



#83
1,3-Dichlorobenzene
Concen: 0.295 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.076 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

Tgt Ion:146 Resp: 742
Ion Ratio Lower Upper
146 100
111 25.1 22.4 67.0
148 26.3 32.1 96.5#

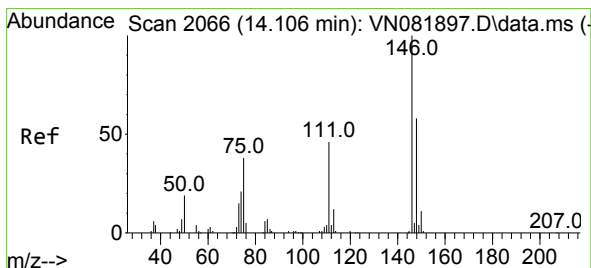
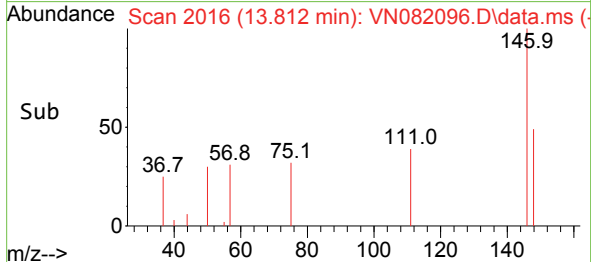
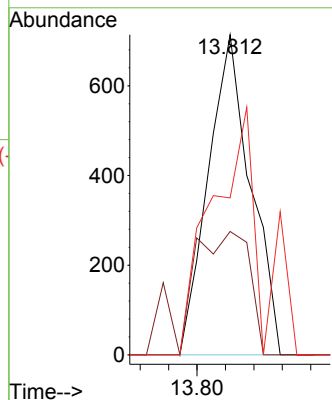
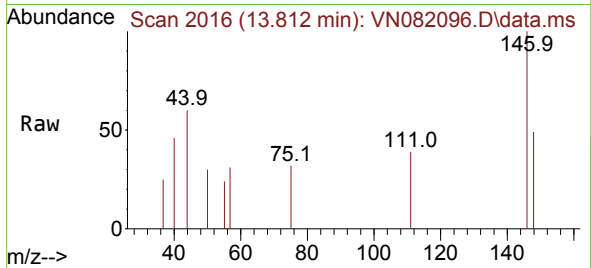




#84
1,4-Dichlorobenzene
Concen: 0.293 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

Instrument :
MSVOA_N
ClientSampleId :
240508039-01

Tgt Ion:146 Resp: 742
Ion Ratio Lower Upper
146 100
111 25.1 21.3 63.9
148 26.3 31.9 95.5#



#87
1,2-Dichlorobenzene
Concen: 0.296 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.294 min
Lab File: VN082096.D
Acq: 13 May 2024 15:10

Tgt Ion:146 Resp: 742
Ion Ratio Lower Upper
146 100
111 25.1 22.6 67.8
148 26.3 31.3 93.8#

