

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051324\
 Data File : VN082101.D
 Acq On : 13 May 2024 17:10
 Operator : JC\MD
 Sample : P2461-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 240410100-04

Quant Time: May 14 03:34:35 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)

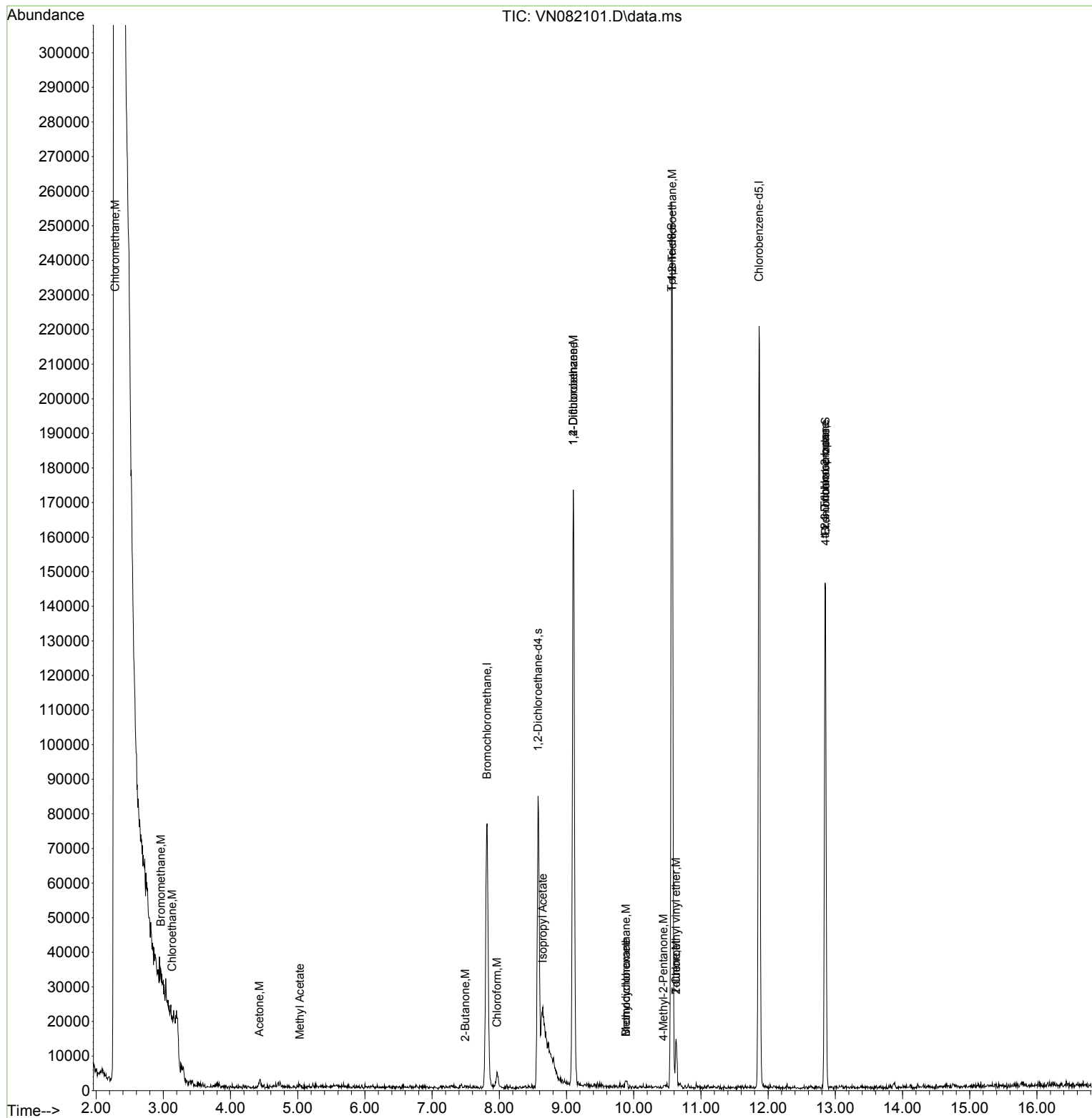
Internal Standards						
1) Bromochloromethane	7.818	128	24338	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	136784	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	114828	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	63076	30.955	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.167%
60) 4-Bromofluorobenzene	12.853	95	52968	27.718	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.400%
63) Toluene-d8	10.565	98	169947	31.165	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.867%
Target Compounds						
					Qvalue	
3) Chloromethane	2.283	50	162223	101.251	ug/l #	44
5) Bromomethane	2.965	94	214	0.271	ug/l #	4
6) Chloroethane	3.130	64	2061	2.405	ug/l #	41
12) Methyl Acetate	5.030	43	421	0.226	ug/l #	40
15) Acetone	4.430	58	275	1.446	ug/l #	26
25) Chloroform	7.965	83	2024	0.689	ug/l	85
30) 2-Butanone	7.494	43	265	0.252	ug/l #	52
36) 1,2-Dichloroethane	9.100	62	6265	2.873	ug/l #	72
38) Methylcyclohexane	9.883	83	858	0.349	ug/l #	19
41) Bromodichloromethane	9.883	83	1175	0.513	ug/l #	96
44) Isopropyl Acetate	8.647	43	31930	7.858	ug/l #	45
50) 1,1,2-Trichloroethane	10.571	97	3171	2.183	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.630	63	767	0.559	ug/l #	67
58) 4-Methyl-2-Pentanone	10.441	43	668	0.300	ug/l #	38
62) Toluene	10.630	91	10389	1.608	ug/l	91
72) 1,2,3-Trichloropropane	12.847	75	29625	16.689	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	29625	37.497	ug/l #	12

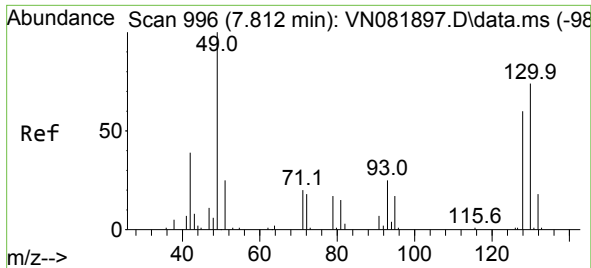
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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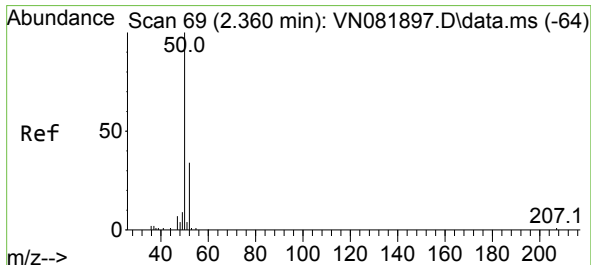
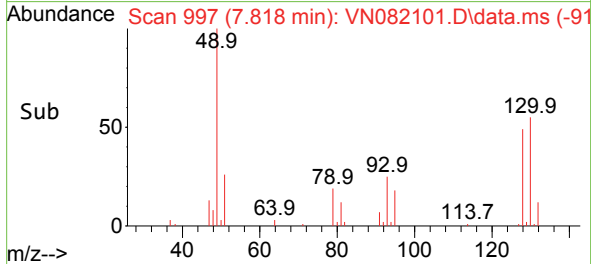
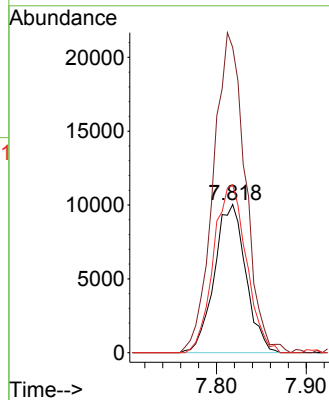
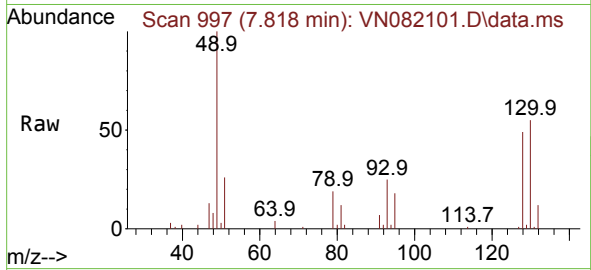




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

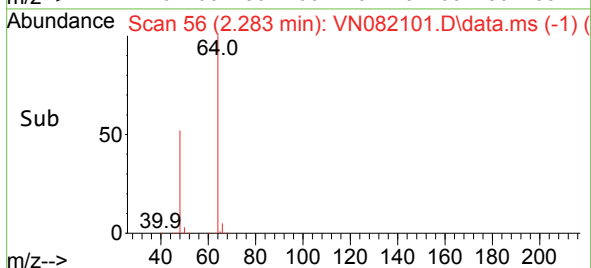
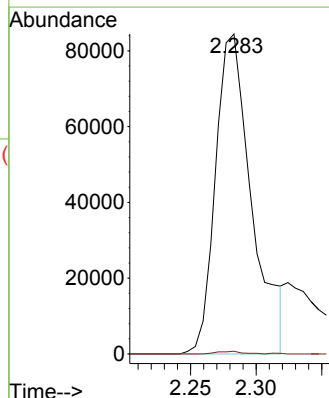
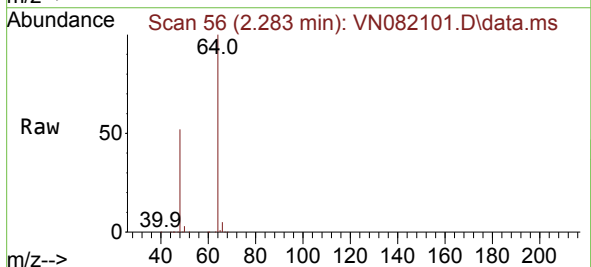
Instrument :
MSVOA_N
ClientSampleId :
240410100-04

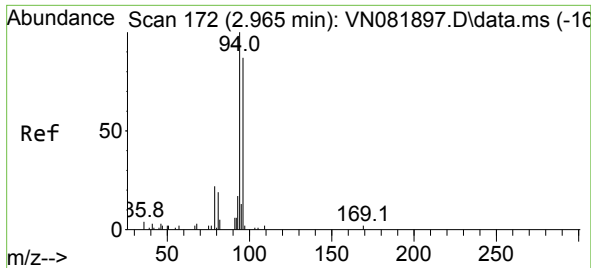
Tgt Ion:128 Resp: 24338
Ion Ratio Lower Upper
128 100
49 218.5 0.0 403.7
130 119.3 0.0 323.3



#3
Chloromethane
Concen: 101.251 ug/l
RT: 2.283 min Scan# 56
Delta R.T. -0.076 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

Tgt Ion: 50 Resp: 162223
Ion Ratio Lower Upper
50 100
52 0.9 25.4 38.0#

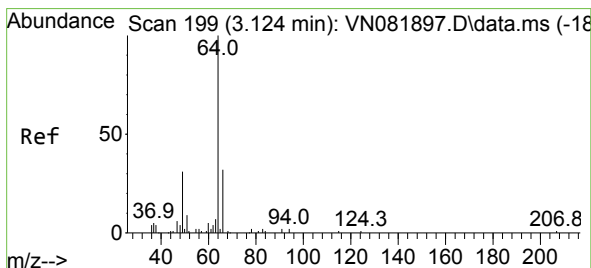
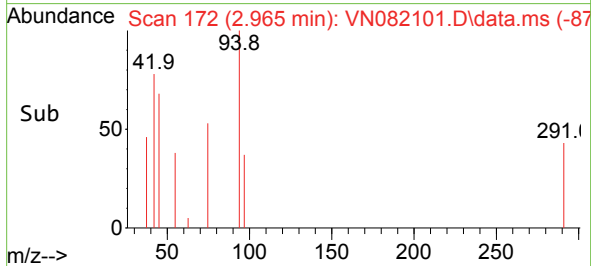
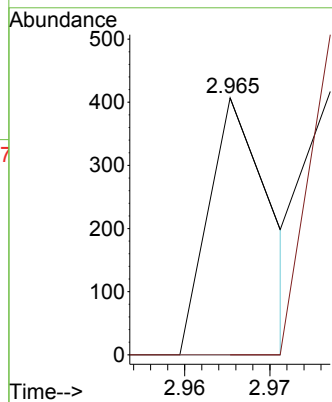
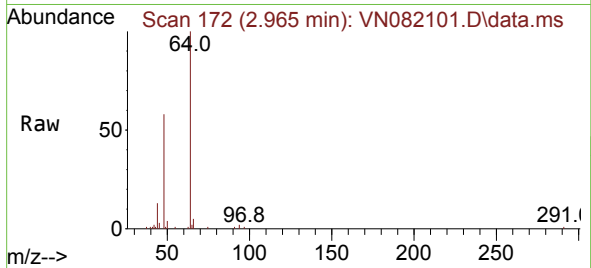




#5
Bromomethane
Concen: 0.271 ug/l
RT: 2.965 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

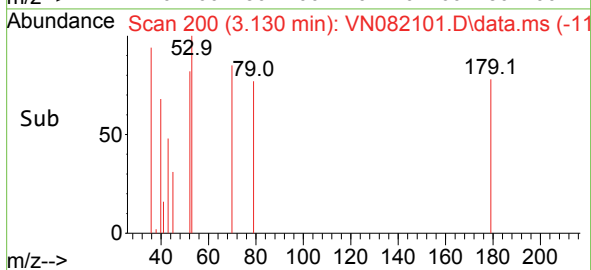
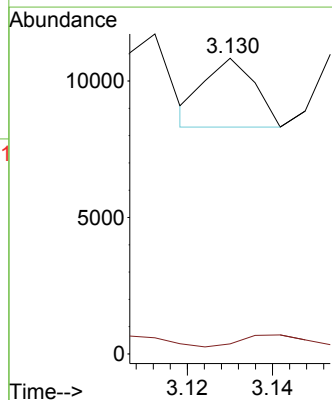
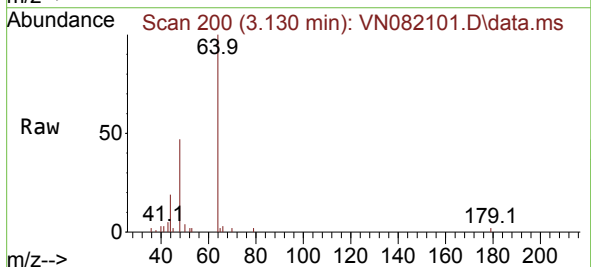
Instrument :
MSVOA_N
ClientSampleId :
240410100-04

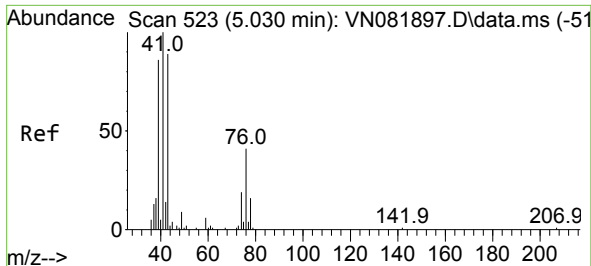
Tgt Ion: 94 Resp: 214
Ion Ratio Lower Upper
94 100
96 0.0 72.8 109.2#



#6
Chloroethane
Concen: 2.405 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.006 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

Tgt Ion: 64 Resp: 2061
Ion Ratio Lower Upper
64 100
66 0.0 26.7 40.1#

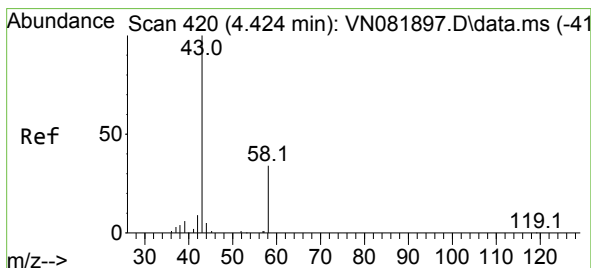
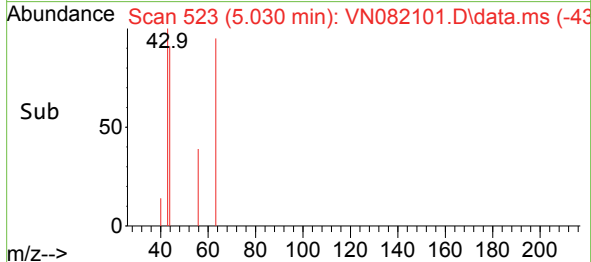
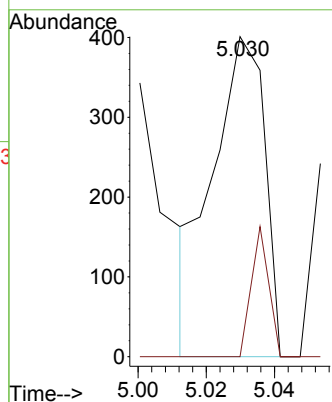
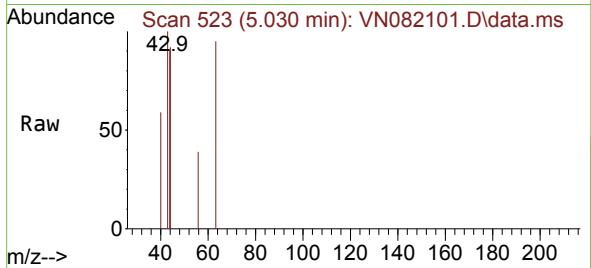




#12
Methyl Acetate
Concen: 0.226 ug/l
RT: 5.030 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

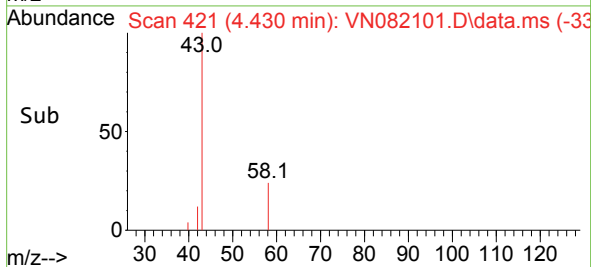
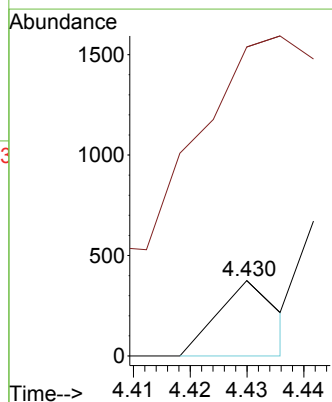
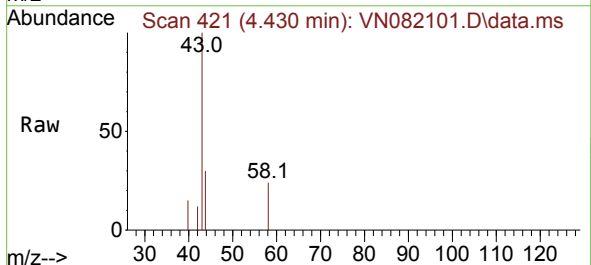
Instrument :
MSVOA_N
ClientSampleId :
240410100-04

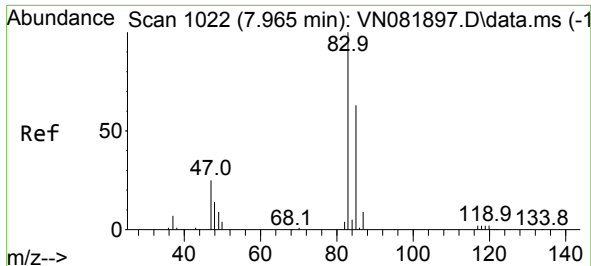
Tgt Ion: 43 Resp: 421
Ion Ratio Lower Upper
43 100
74 0.0 27.7 41.5#



#15
Acetone
Concen: 1.446 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

Tgt Ion: 58 Resp: 275
Ion Ratio Lower Upper
58 100
43 141.1 223.1 334.7#

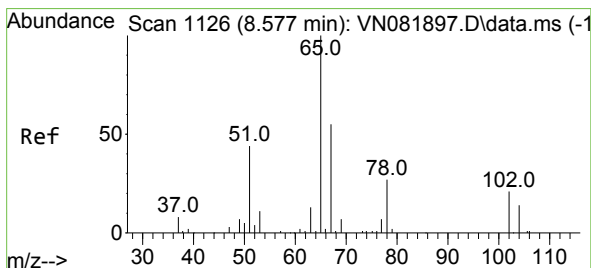
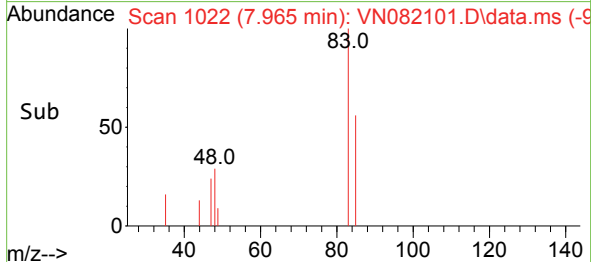
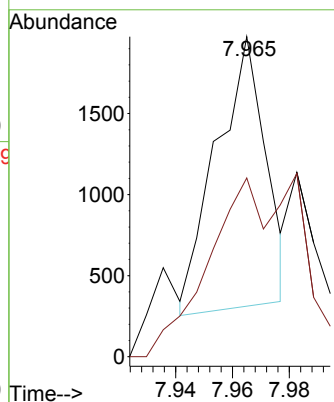
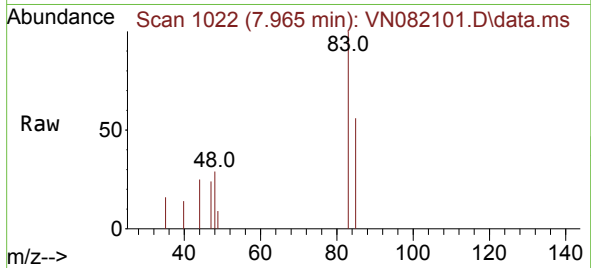




#25
Chloroform
Concen: 0.689 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

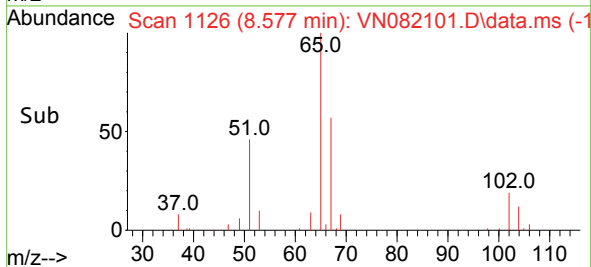
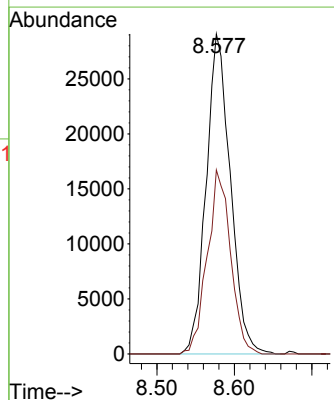
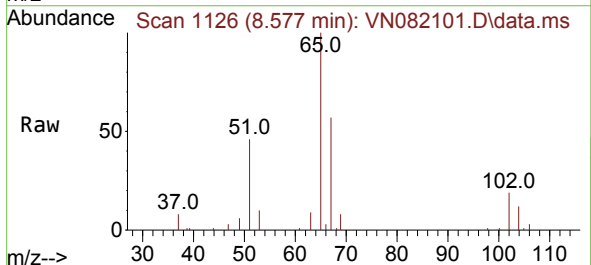
Instrument :
MSVOA_N
ClientSampleId :
240410100-04

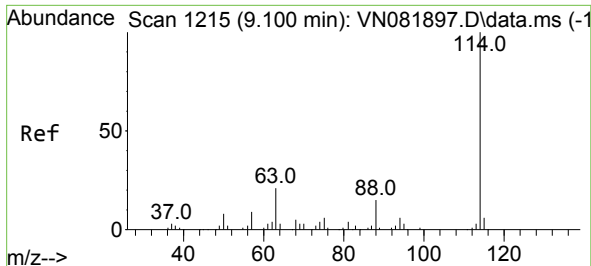
Tgt Ion: 83 Resp: 2024
Ion Ratio Lower Upper
83 100
85 52.2 50.9 76.3



#27
1,2-Dichloroethane-d4
Concen: 30.955 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

Tgt Ion: 65 Resp: 63076
Ion Ratio Lower Upper
65 100
67 55.4 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN082101.D

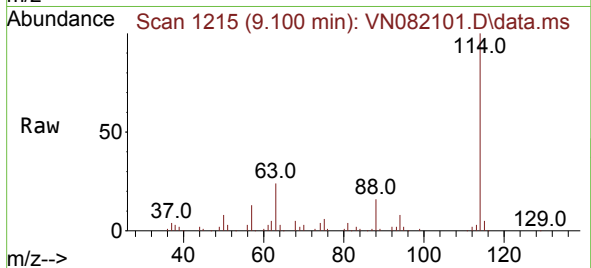
Acq: 13 May 2024 17:10

Instrument :

MSVOA_N

ClientSampleId :

240410100-04



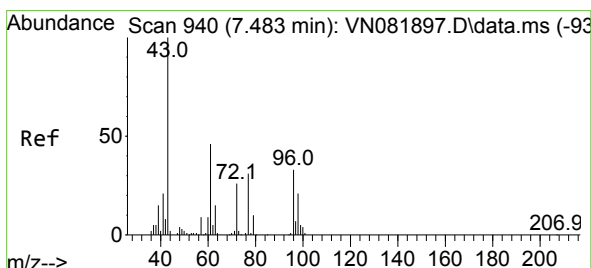
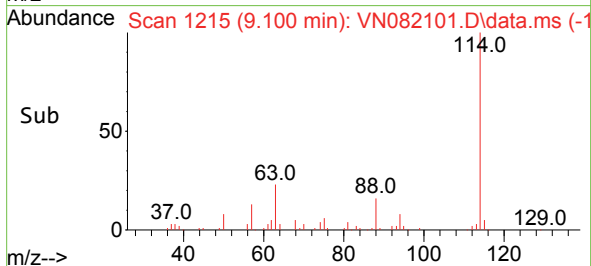
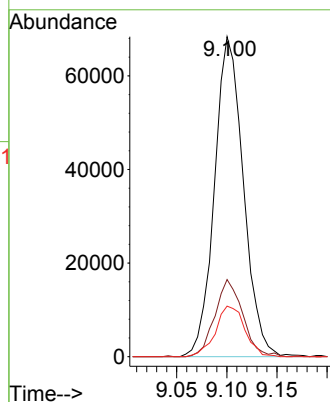
Tgt Ion:114 Resp: 136784

Ion Ratio Lower Upper

114 100

63 23.2 15.9 23.9

88 16.0 12.7 19.1



#30

2-Butanone

Concen: 0.252 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.012 min

Lab File: VN082101.D

Acq: 13 May 2024 17:10

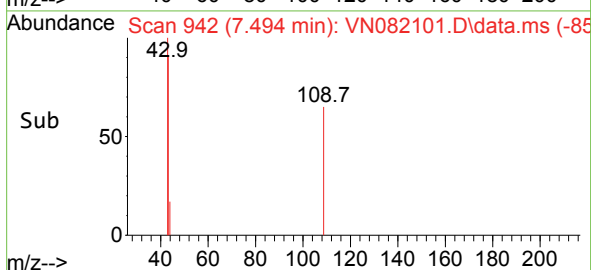
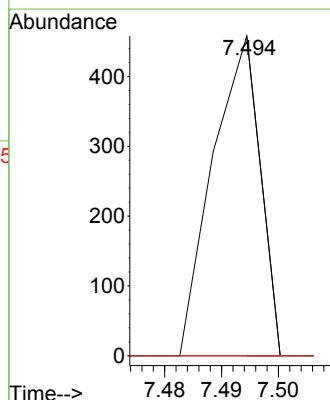
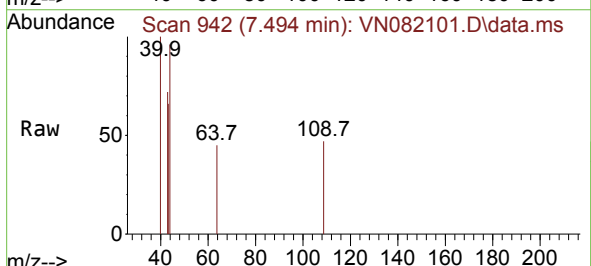
Tgt Ion: 43 Resp: 265

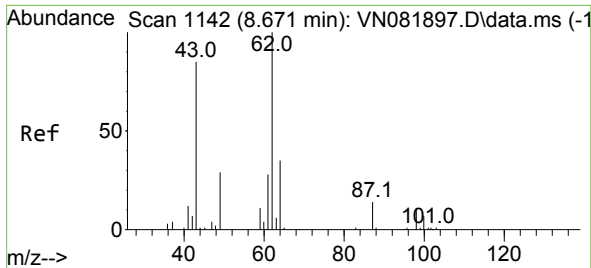
Ion Ratio Lower Upper

43 100

57 0.0 6.7 10.1#

72 0.0 24.0 36.0#





#36

1,2-Dichloroethane

Concen: 2.873 ug/l

RT: 9.100 min Scan# 1142

Delta R.T. 0.429 min

Lab File: VN082101.D

Acq: 13 May 2024 17:10

Instrument :

MSVOA_N

ClientSampleId :

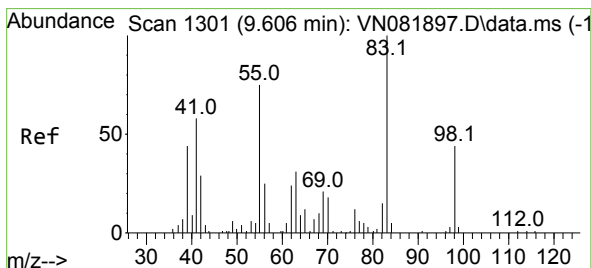
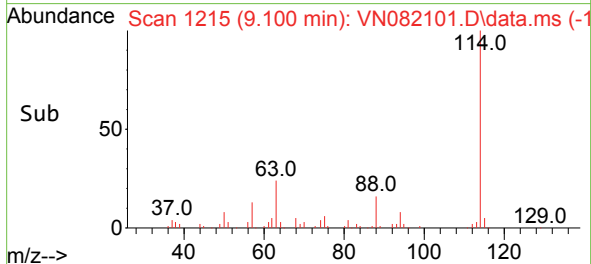
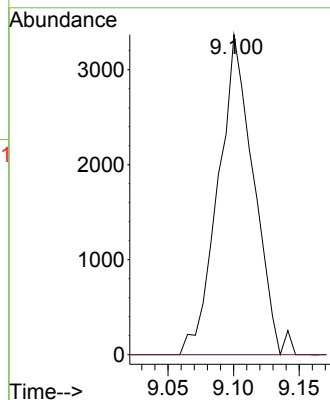
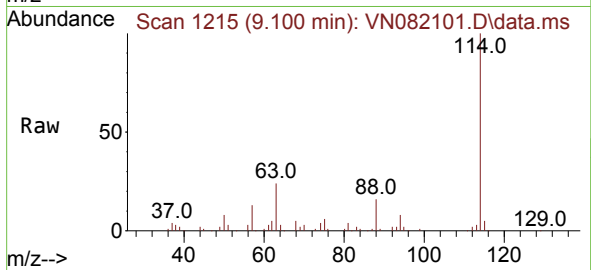
240410100-04

Tgt Ion: 62 Resp: 6265

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#38

Methylcyclohexane

Concen: 0.349 ug/l

RT: 9.883 min Scan# 1348

Delta R.T. 0.276 min

Lab File: VN082101.D

Acq: 13 May 2024 17:10

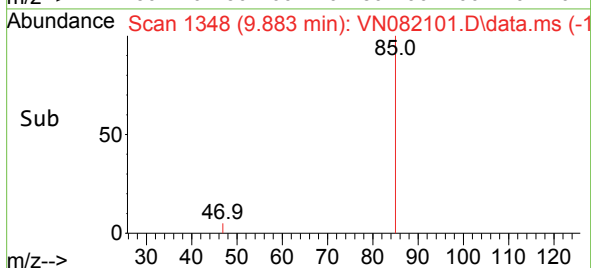
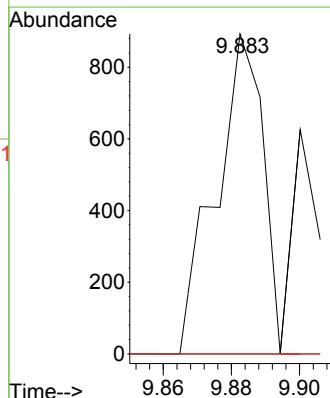
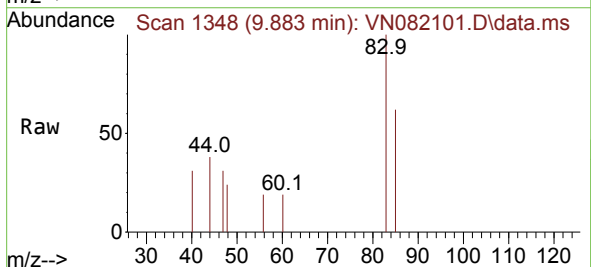
Tgt Ion: 83 Resp: 858

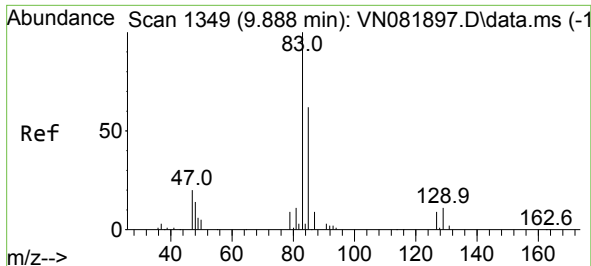
Ion Ratio Lower Upper

83 100

55 0.0 36.6 109.9#

98 0.0 23.8 71.5#

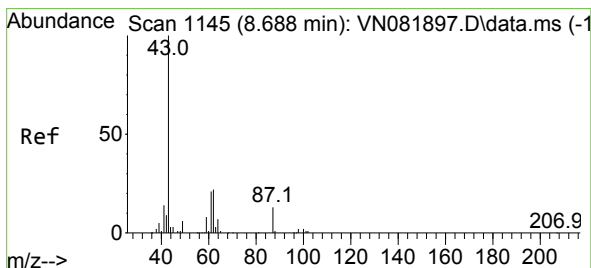
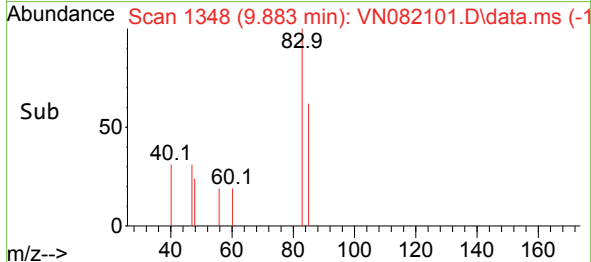
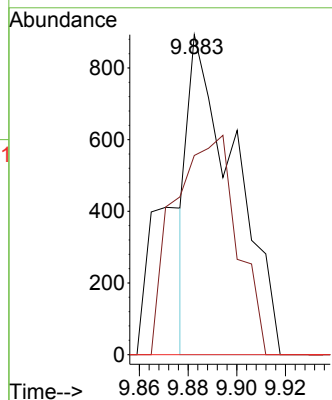
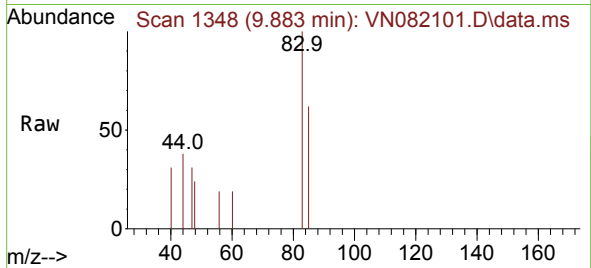




#41
Bromodichloromethane
Concen: 0.513 ug/l
RT: 9.883 min Scan# 1175
Delta R.T. -0.006 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

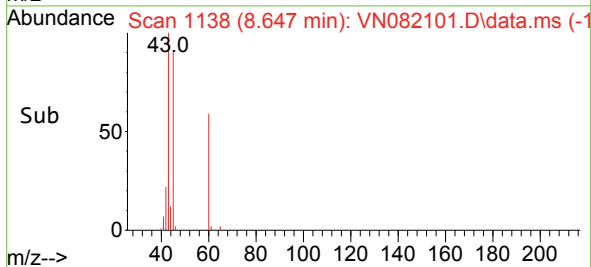
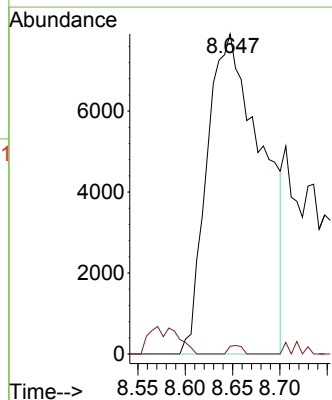
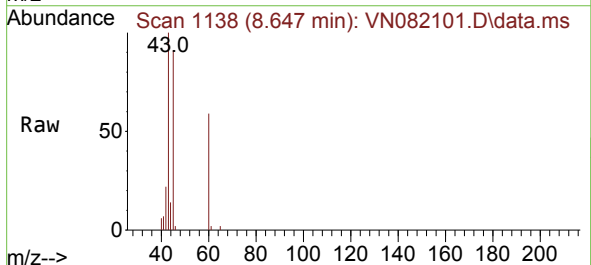
Instrument :
MSVOA_N
ClientSampleId :
240410100-04

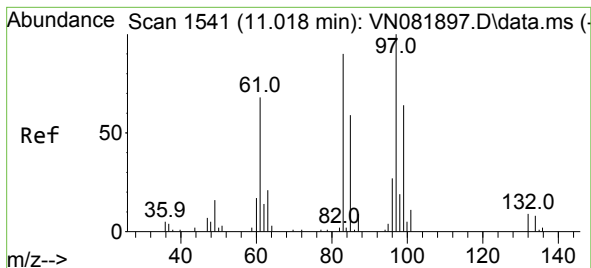
Tgt Ion: 83 Resp: 1175
Ion Ratio Lower Upper
83 100
85 62.3 49.4 74.2
127 0.0 7.3 10.9#



#44
Isopropyl Acetate
Concen: 7.858 ug/l
RT: 8.647 min Scan# 1138
Delta R.T. -0.041 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

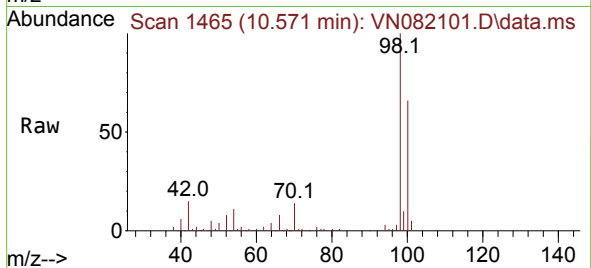
Tgt Ion: 43 Resp: 31930
Ion Ratio Lower Upper
43 100
61 0.6 25.0 37.4#



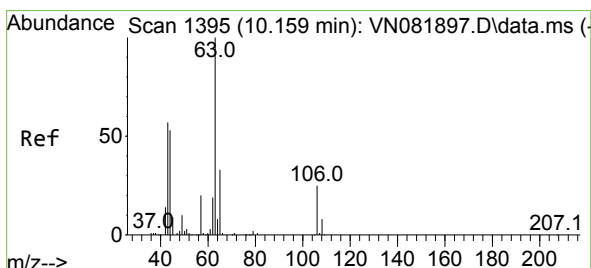
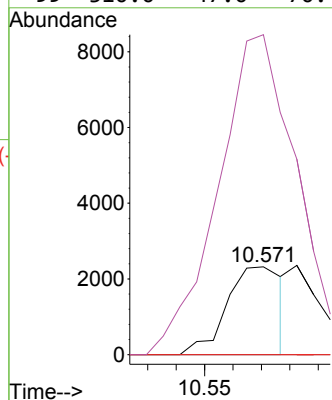
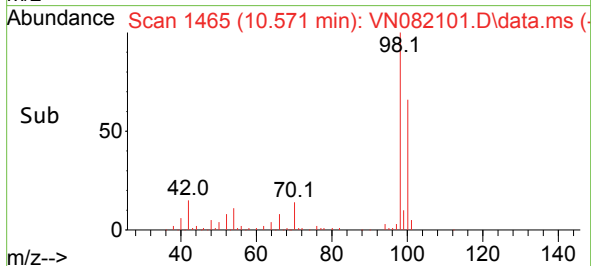


#50
1,1,2-Trichloroethane
Concen: 2.183 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.447 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

Instrument :
MSVOA_N
ClientSampleId :
240410100-04

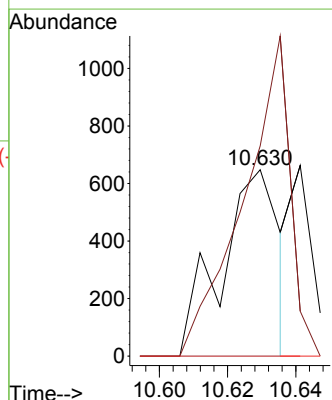
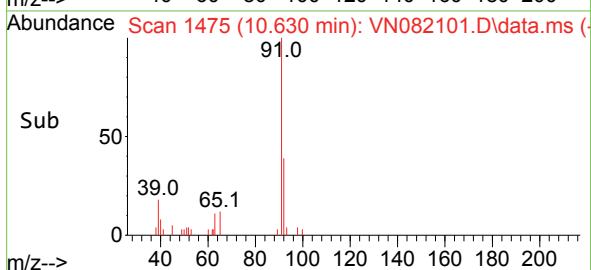
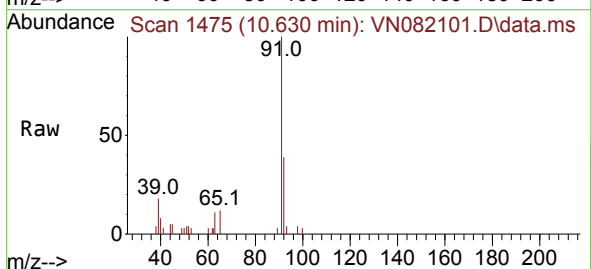


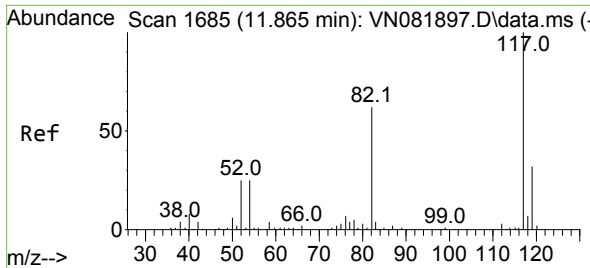
Tgt Ion: 97 Resp: 3171
Ion Ratio Lower Upper
97 100
83 0.0 68.1 102.1#
85 0.0 41.8 62.6#
99 310.0 47.0 70.4#



#55
2-Chloroethyl vinyl ether
Concen: 0.559 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.471 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

Tgt Ion: 63 Resp: 767
Ion Ratio Lower Upper
63 100
65 39.5 26.2 39.2#
106 0.0 23.8 35.8#

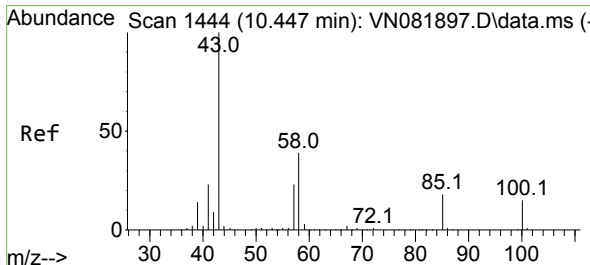
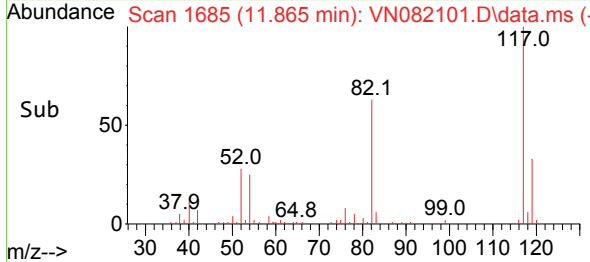
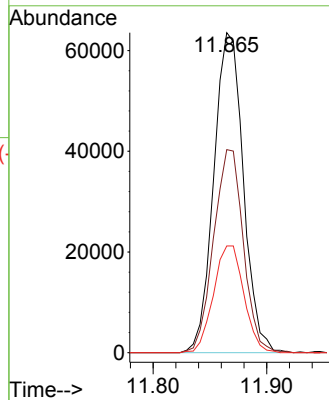
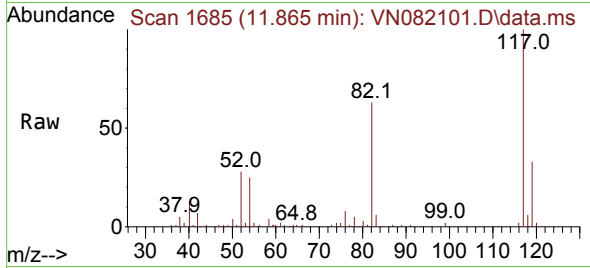




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

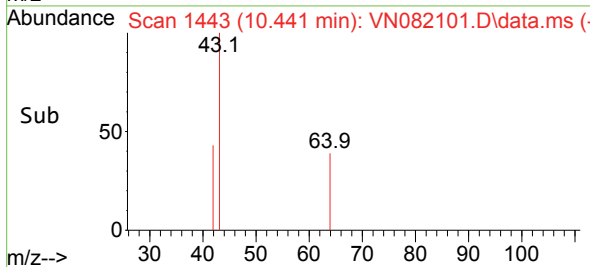
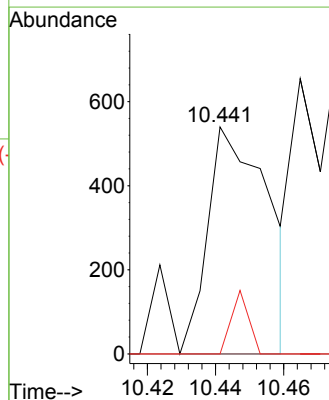
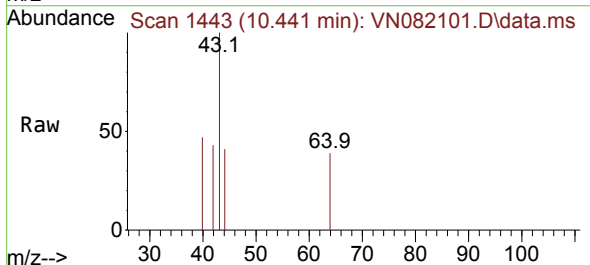
Instrument :
MSVOA_N
ClientSampleId :
240410100-04

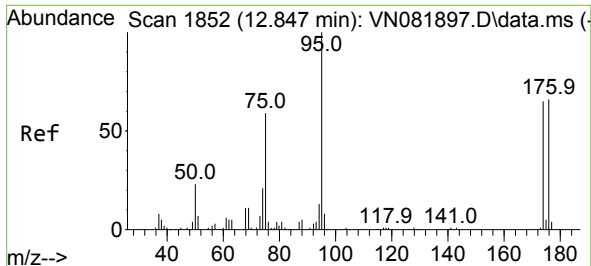
Tgt Ion:117 Resp: 114828
Ion Ratio Lower Upper
117 100
82 63.9 46.6 69.8
119 34.3 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 0.300 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

Tgt Ion: 43 Resp: 668
Ion Ratio Lower Upper
43 100
58 0.0 36.5 54.7#
85 0.0 19.5 29.3#

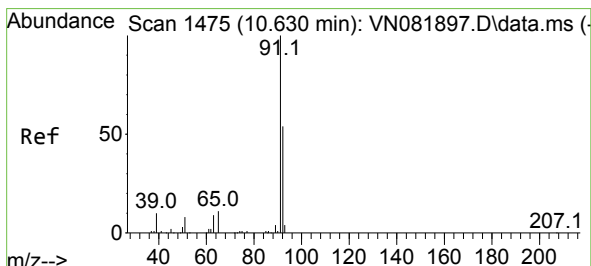
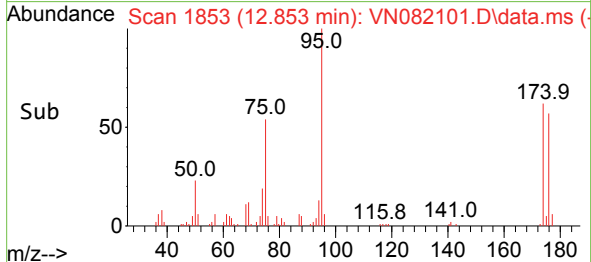
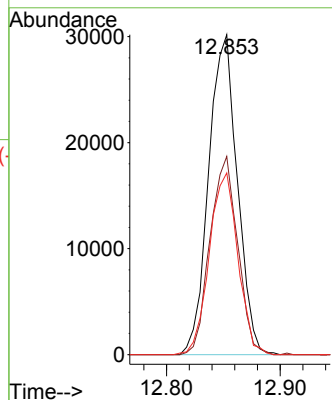
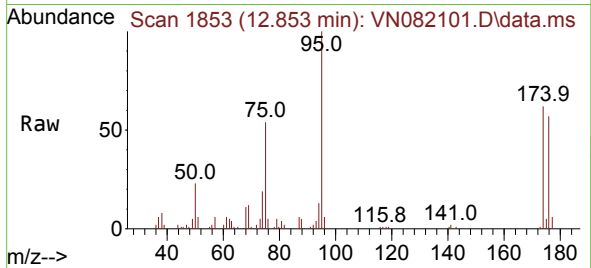




#60
4-Bromofluorobenzene
Concen: 27.718 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

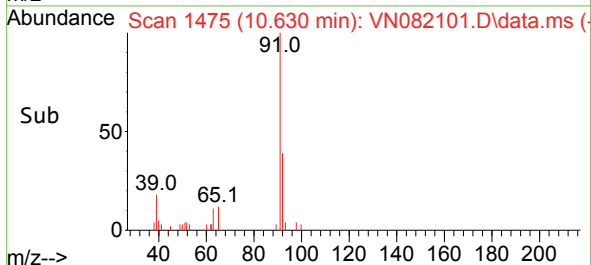
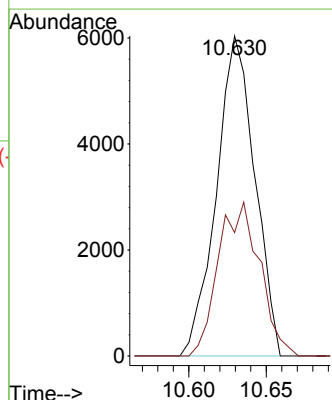
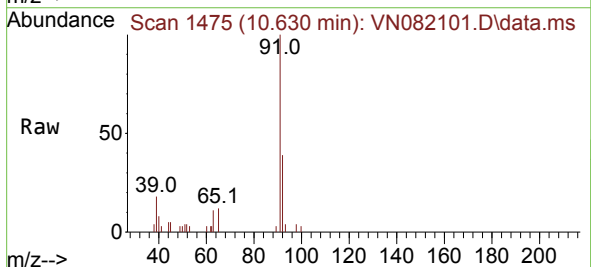
Instrument :
MSVOA_N
ClientSampleId :
240410100-04

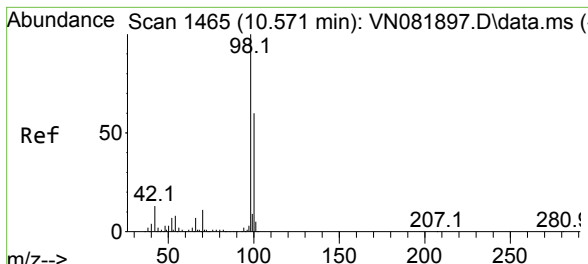
Tgt Ion: 95 Resp: 52968
Ion Ratio Lower Upper
95 100
174 59.7 60.5 90.7#
176 56.5 57.8 86.6#



#62
Toluene
Concen: 1.608 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

Tgt Ion: 91 Resp: 10389
Ion Ratio Lower Upper
91 100
92 51.8 46.5 69.7

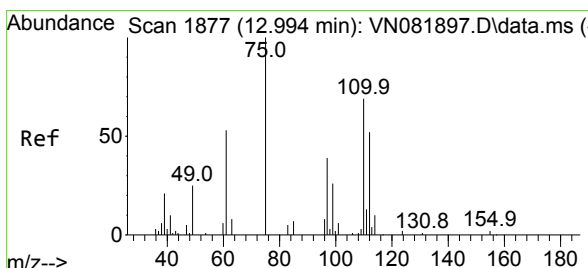
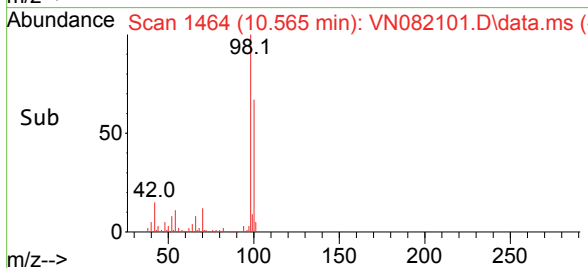
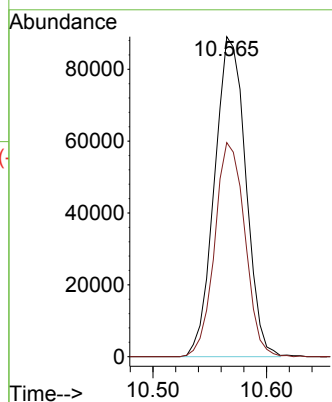
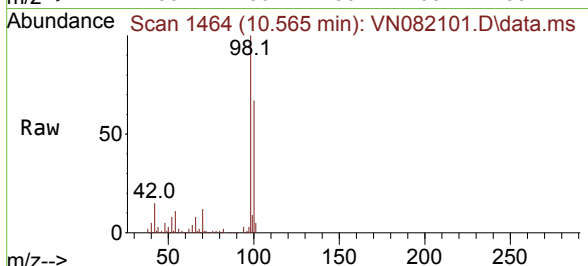




#63
Toluene-d8
Concen: 31.165 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

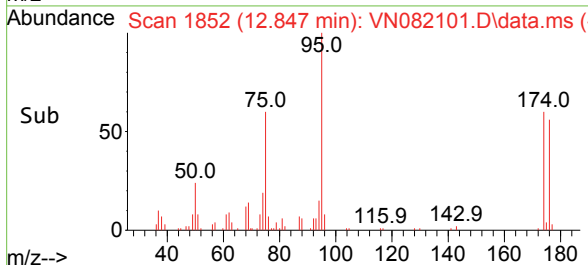
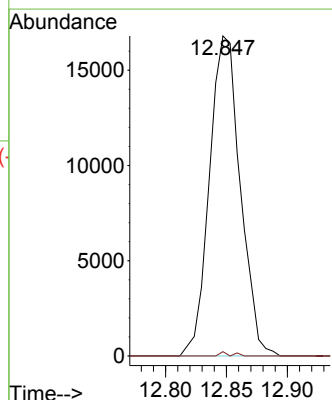
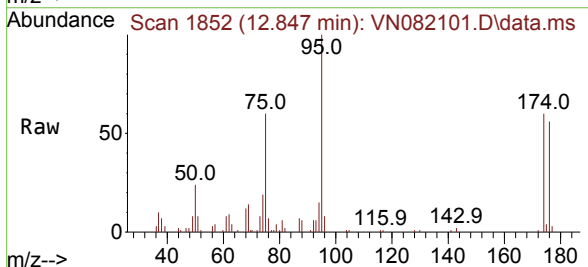
Instrument :
MSVOA_N
ClientSampleId :
240410100-04

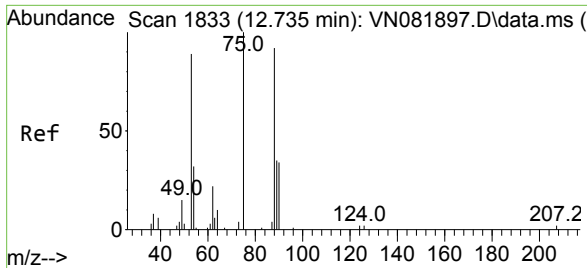
Tgt Ion: 98 Resp: 169947
Ion Ratio Lower Upper
98 100
100 64.7 52.7 79.1



#72
1,2,3-Trichloropropane
Concen: 16.689 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN082101.D
Acq: 13 May 2024 17:10

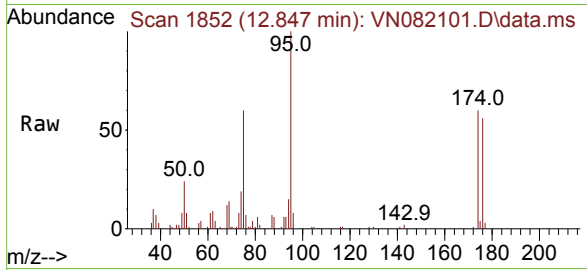
Tgt Ion: 75 Resp: 29625
Ion Ratio Lower Upper
75 100
77 0.3 0.0 367.6





#77
 t-1,4-Dichloro-2-butene
 Concen: 37.497 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN082101.D
 Acq: 13 May 2024 17:10

Instrument :
 MSVOA_N
 ClientSampleId :
 240410100-04



Tgt Ion: 75 Resp: 29625
 Ion Ratio Lower Upper
 75 100
 53 0.0 45.9 137.7#
 89 0.0 25.9 77.7#

