

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041924\
 Data File : VN081815.D
 Acq On : 19 Apr 2024 17:40
 Operator : JC\MD
 Sample : P2213-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

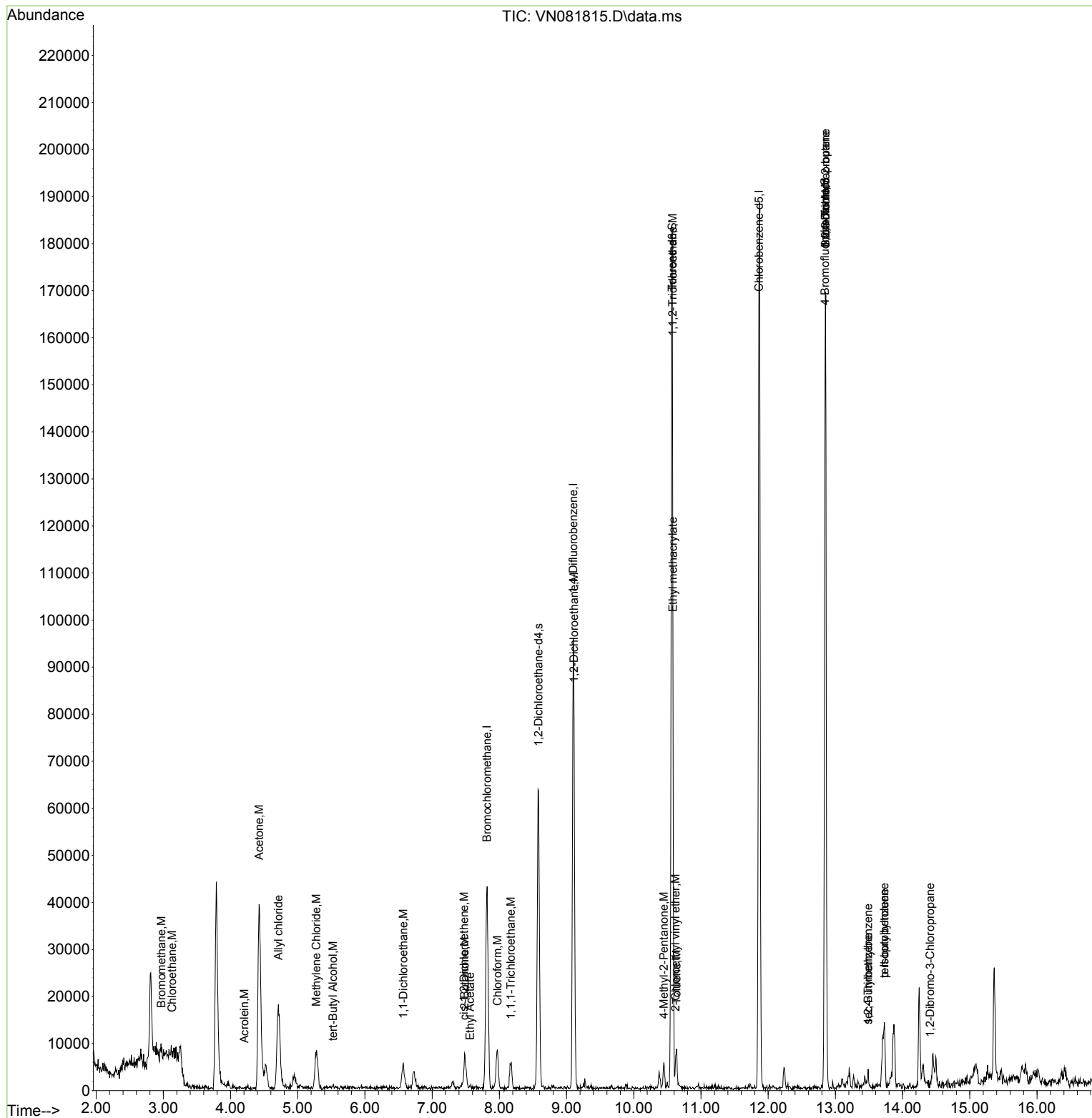
Quant Time: Apr 19 23:49:23 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 11 09:25:01 2024
 Response via : Initial Calibration

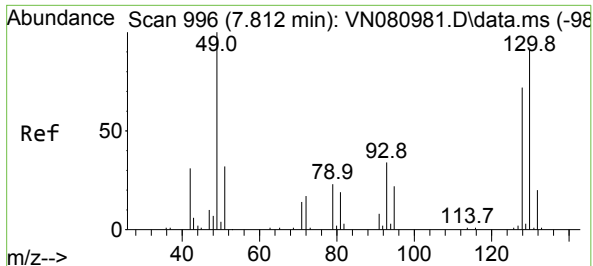
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.818	128	14747	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	81381	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.865	117	105604	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	51440	28.394	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	94.633%
60) 4-Bromofluorobenzene	12.847	95	55458	26.711	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	89.033%
63) Toluene-d8	10.571	98	122583	28.938	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.467%
Target Compounds						
					Qvalue	
5) Bromomethane	2.971	94	675	0.434	ug/l #	21
6) Chloroethane	3.130	64	456	0.317	ug/l #	41
13) Acrolein	4.206	56	145	0.631	ug/l #	15
15) Acetone	4.424	58	22991	120.431	ug/l	93
17) Allyl chloride	4.712	41	3134	1.364	ug/l	82
18) Methylene Chloride	5.277	84	4112	1.880	ug/l #	78
21) 1,1-Dichloroethane	6.571	63	7014	1.924	ug/l #	79
22) cis-1,2-Dichloroethene	7.477	96	1981	0.788	ug/l	84
23) tert-Butyl Alcohol	5.524	59	170	0.552	ug/l #	100
25) Chloroform	7.971	83	7475	1.802	ug/l	92
30) 2-Butanone	7.482	43	1664	2.036	ug/l #	84
32) 1,1,1-Trichloroethane	8.171	97	4381	1.486	ug/l #	73
36) 1,2-Dichloroethane	9.112	62	3134	1.386	ug/l #	72
43) Ethyl Acetate	7.565	43	556	0.309	ug/l #	67
50) 1,1,2-Trichloroethane	10.576	97	3020	1.761	ug/l #	1
51) Ethyl methacrylate	10.582	69	613	0.257	ug/l #	45
55) 2-Chloroethyl vinyl ether	10.623	63	354	0.302	ug/l #	43
56) Bromoform	12.853	173	649	0.495	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	3098	1.706	ug/l #	79
62) Toluene	10.635	91	6112	0.796	ug/l	85
72) 1,2,3-Trichloropropane	12.853	75	29493	15.389	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	29493	37.161	ug/l #	12
79) tert-butylbenzene	13.729	119	6751	1.180	ug/l	72
80) 1,2,4-Trimethylbenzene	13.488	105	2236	0.333	ug/l	85
81) sec-Butylbenzene	13.488	105	2236	0.271	ug/l	80
82) p-Isopropyltoluene	13.729	119	6751	0.975	ug/l	84
88) 1,2-Dibromo-3-Chloropr...	14.411	75	193	0.428	ug/l #	4

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

Instrument :
MSVOA_N
ClientSampleId :

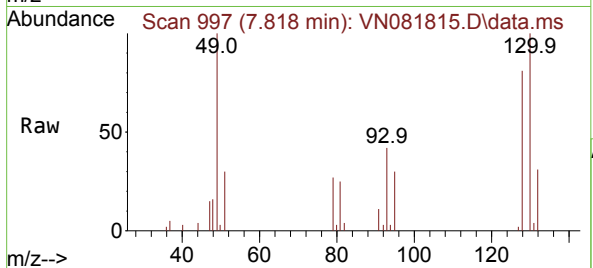
Instrument :
MSVOA_N
ClientSampleId :



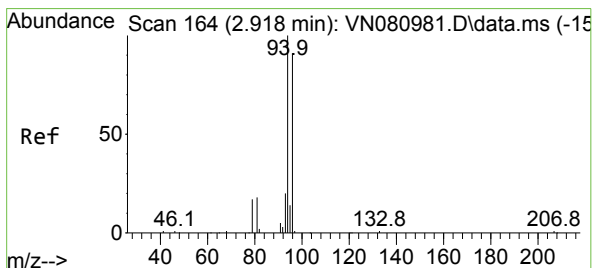
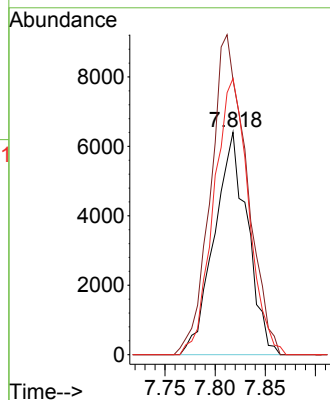
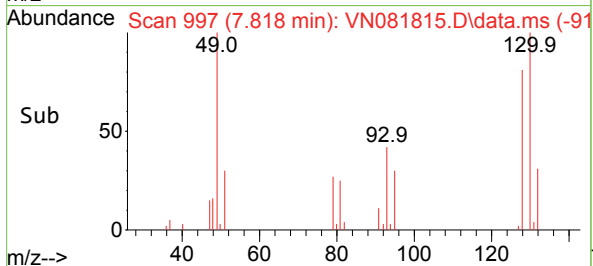


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

Instrument :
MSVOA_N
ClientSampleId :

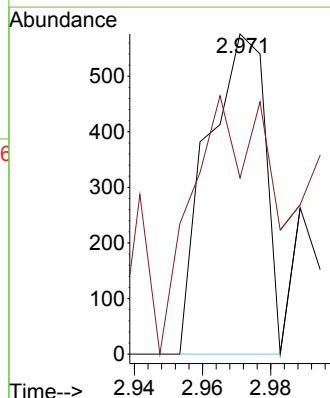
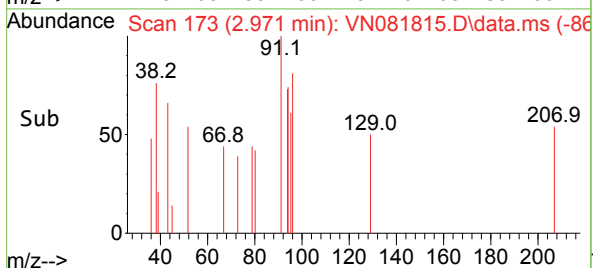
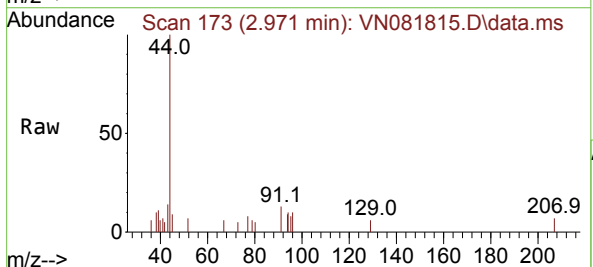


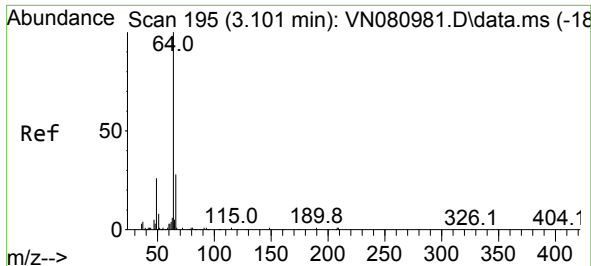
Tgt Ion:128 Resp: 14747
Ion Ratio Lower Upper
128 100
49 156.2 0.0 403.7
130 130.1 0.0 323.3



#5
Bromomethane
Concen: 0.434 ug/l
RT: 2.971 min Scan# 173
Delta R.T. 0.012 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

Tgt Ion: 94 Resp: 675
Ion Ratio Lower Upper
94 100
96 16.3 72.8 109.2#

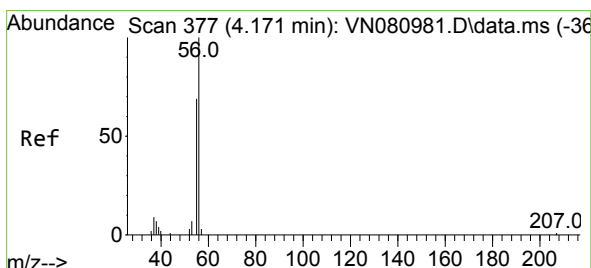
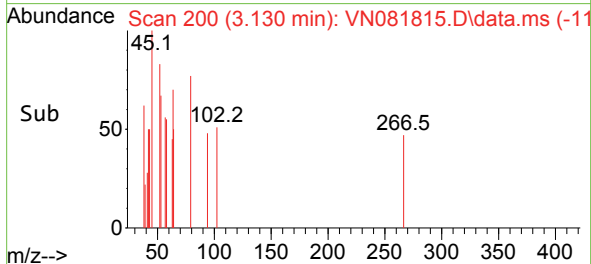
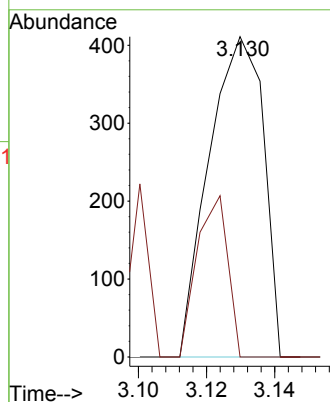
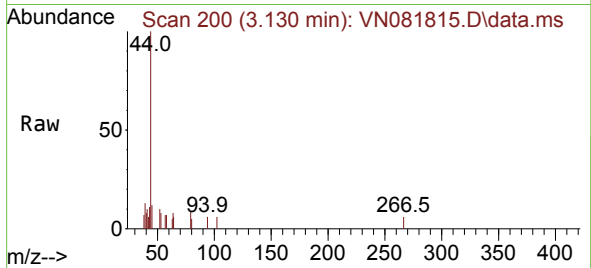




#6
Chloroethane
Concen: 0.317 ug/l
RT: 3.130 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

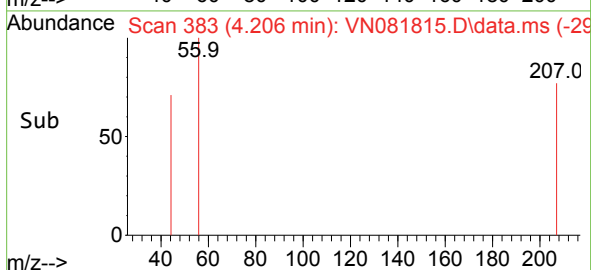
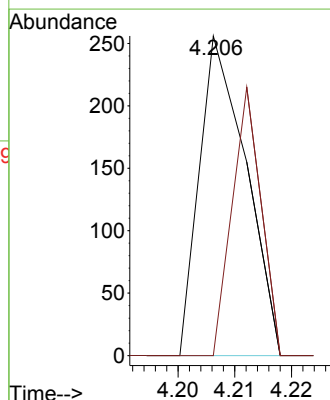
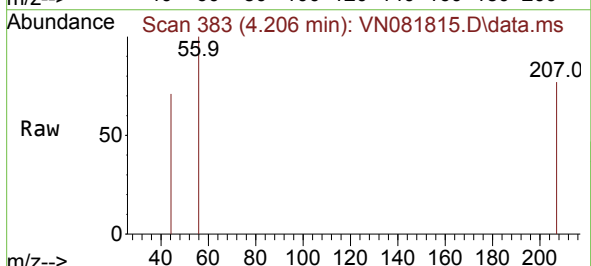
Instrument :
MSVOA_N
ClientSampleId :

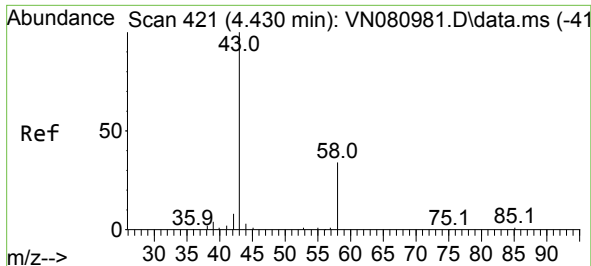
Tgt Ion: 64 Resp: 456
Ion Ratio Lower Upper
64 100
66 0.0 26.7 40.1#



#13
Acrolein
Concen: 0.631 ug/l
RT: 4.206 min Scan# 383
Delta R.T. 0.023 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

Tgt Ion: 56 Resp: 145
Ion Ratio Lower Upper
56 100
55 0.0 55.5 83.3#

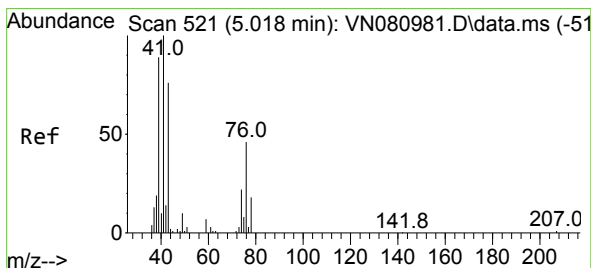
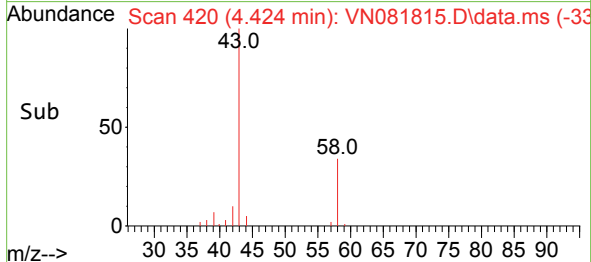
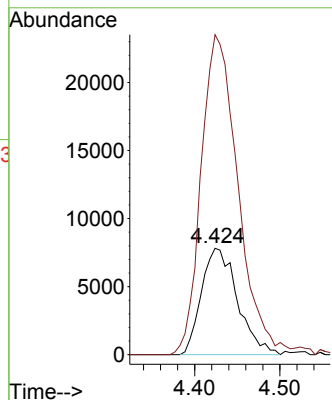
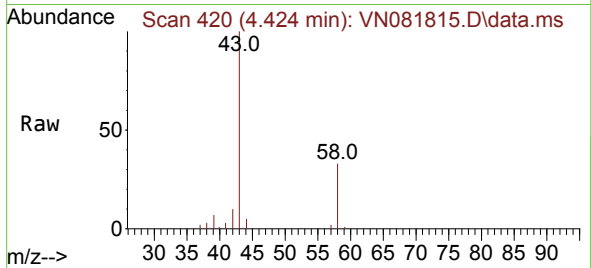




#15
Acetone
Concen: 120.431 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

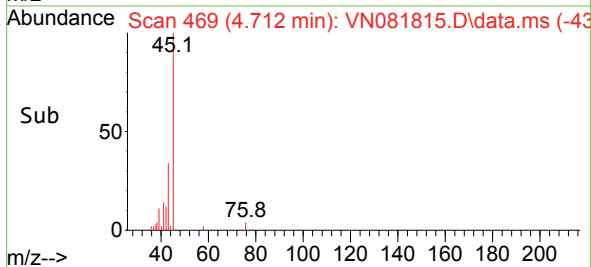
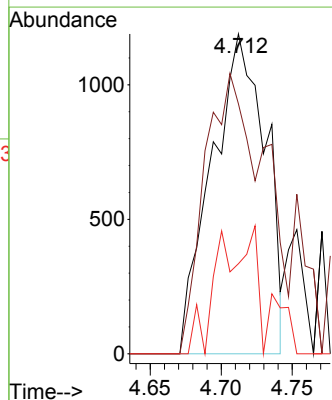
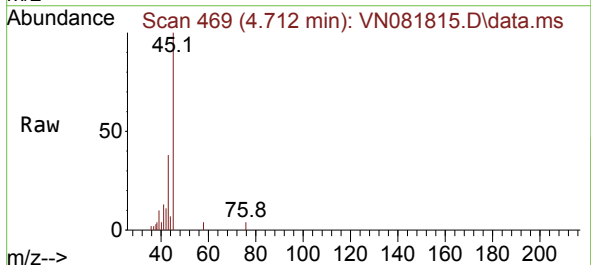
Instrument :
MSVOA_N
ClientSampleId :

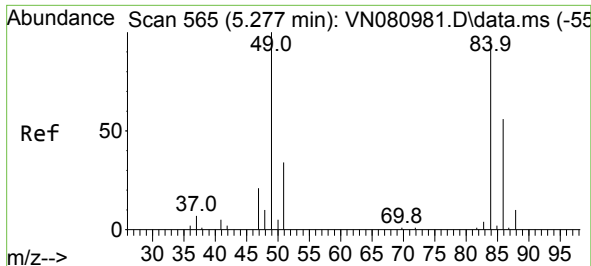
Tgt Ion: 58 Resp: 22991
Ion Ratio Lower Upper
58 100
43 292.3 223.1 334.7



#17
Allyl chloride
Concen: 1.364 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.312 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

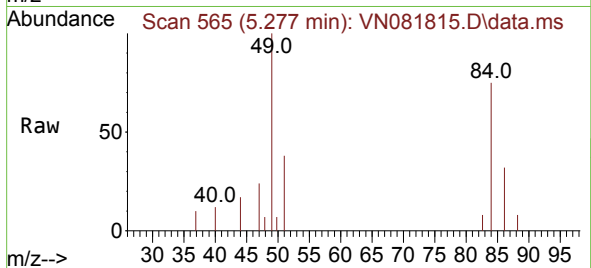
Tgt Ion: 41 Resp: 3134
Ion Ratio Lower Upper
41 100
39 78.1 37.6 112.9
76 28.2 27.8 83.4



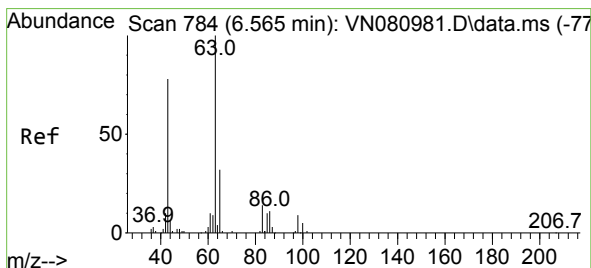
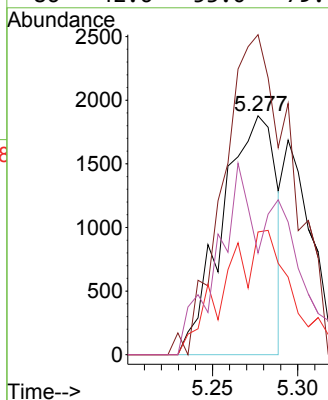
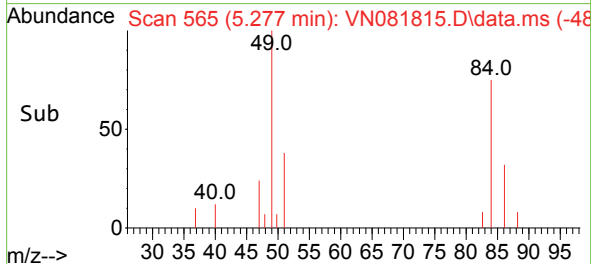


#18
Methylene Chloride
Concen: 1.880 ug/l
RT: 5.277 min Scan# 50
Delta R.T. -0.006 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

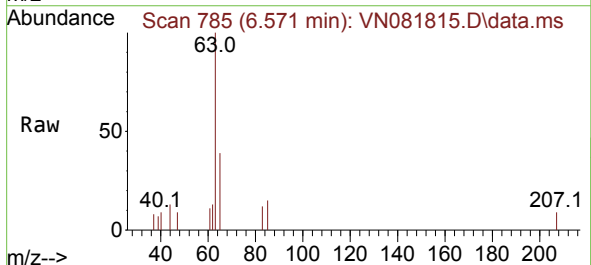
Instrument :
MSVOA_N
ClientSampleId :



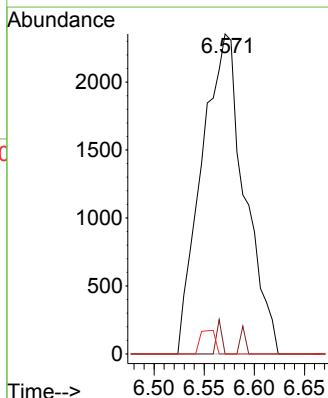
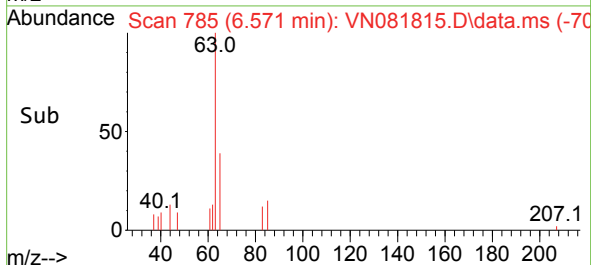
Tgt Ion: 84 Resp: 4112
Ion Ratio Lower Upper
84 100
49 124.9 86.0 129.0
51 51.4 30.0 45.0#
86 42.6 53.0 79.4#

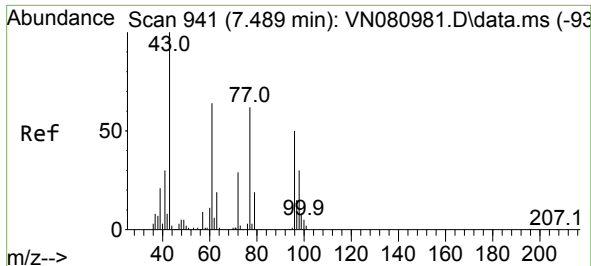


#21
1,1-Dichloroethane
Concen: 1.924 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40



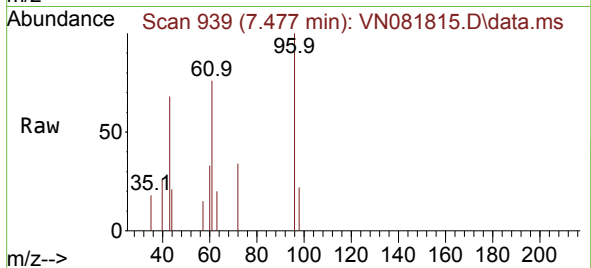
Tgt Ion: 63 Resp: 7014
Ion Ratio Lower Upper
63 100
98 0.0 4.1 12.3#
100 0.0 3.0 9.0#





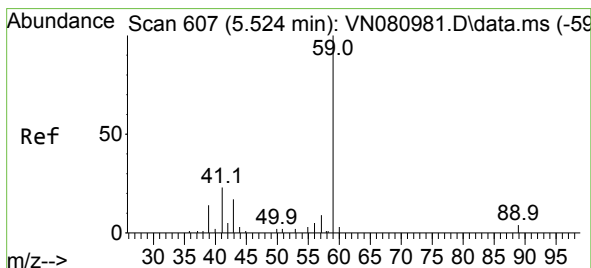
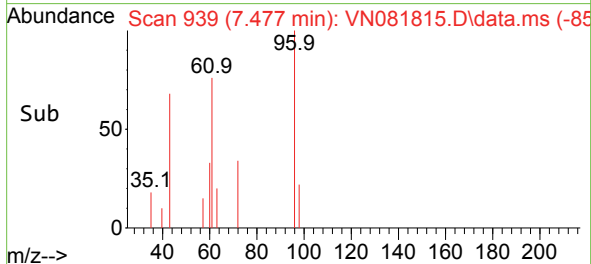
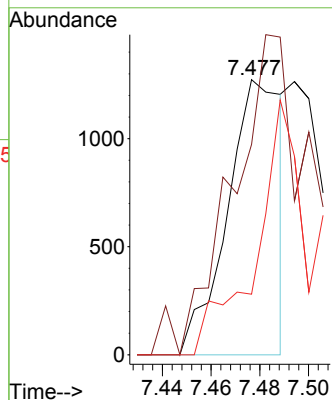
#22
 cis-1,2-Dichloroethene
 Concen: 0.788 ug/l
 RT: 7.477 min Scan# 91
 Delta R.T. -0.006 min
 Lab File: VN081815.D
 Acq: 19 Apr 2024 17:40

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 96 Resp: 1981

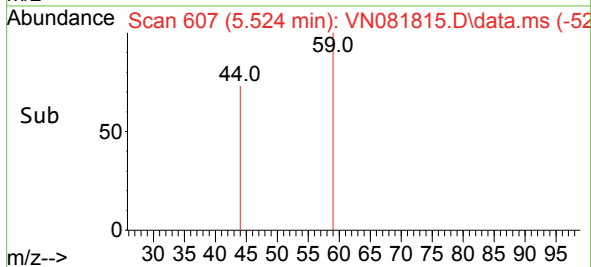
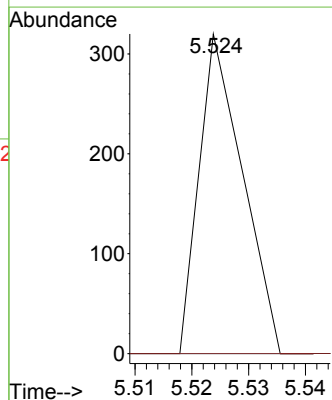
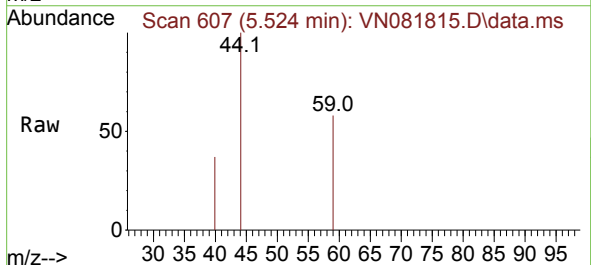
Ion	Ratio	Lower	Upper
96	100		
61	121.5	113.5	170.3
98	54.1	52.0	78.0

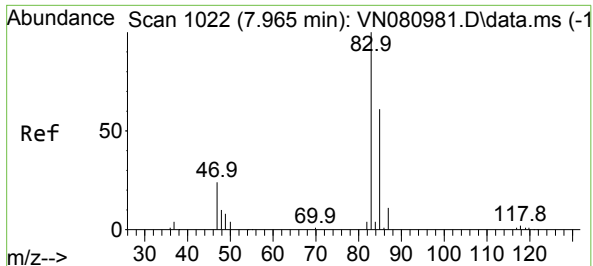


#23
 tert-Butyl Alcohol
 Concen: 0.552 ug/l
 RT: 5.524 min Scan# 607
 Delta R.T. 0.012 min
 Lab File: VN081815.D
 Acq: 19 Apr 2024 17:40

Tgt Ion: 59 Resp: 170

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#25

Chloroform

Concen: 1.802 ug/l

RT: 7.971 min Scan# 1023

Delta R.T. -0.000 min

Lab File: VN081815.D

Acq: 19 Apr 2024 17:40

Instrument :

MSVOA_N

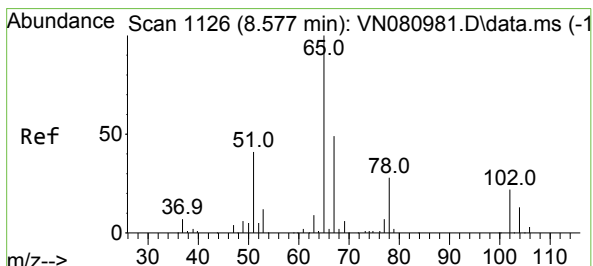
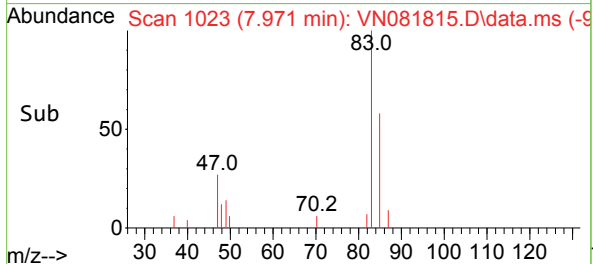
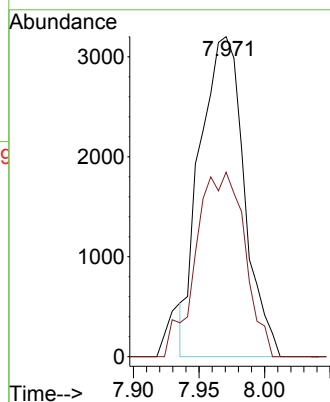
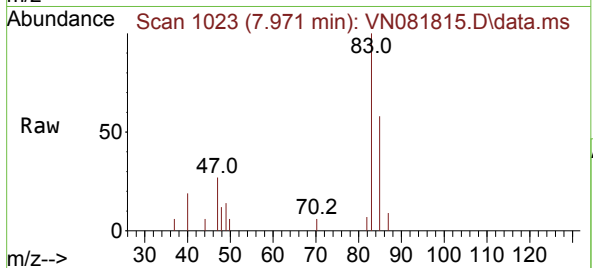
ClientSampleId :

Tgt Ion: 83 Resp: 7475

Ion Ratio Lower Upper

83 100

85 57.7 50.9 76.3



#27

1,2-Dichloroethane-d4

Concen: 28.394 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN081815.D

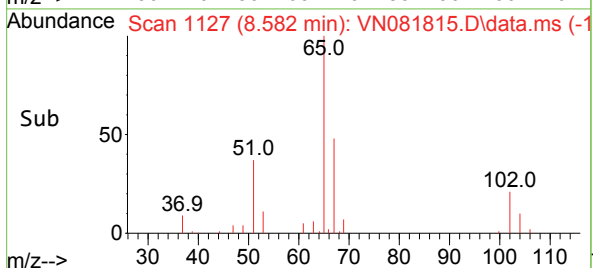
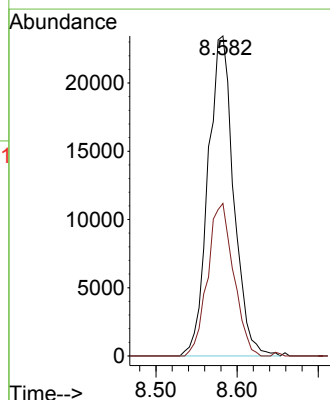
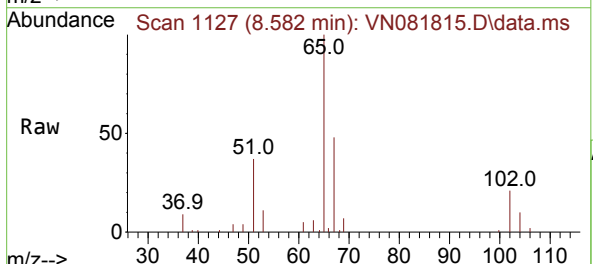
Acq: 19 Apr 2024 17:40

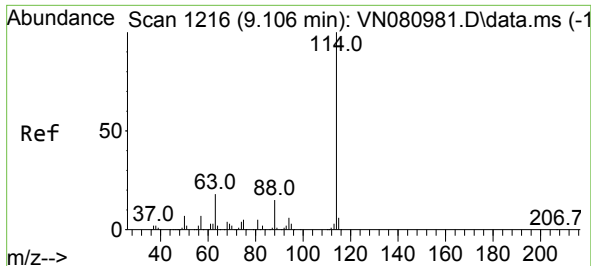
Tgt Ion: 65 Resp: 51440

Ion Ratio Lower Upper

65 100

67 48.3 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

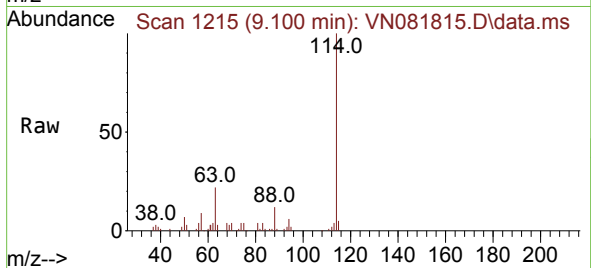
Lab File: VN081815.D

Acq: 19 Apr 2024 17:40

Instrument :

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ClientSampleId :



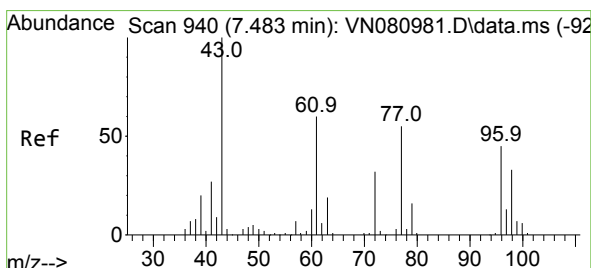
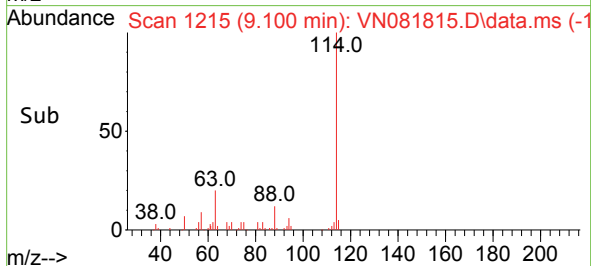
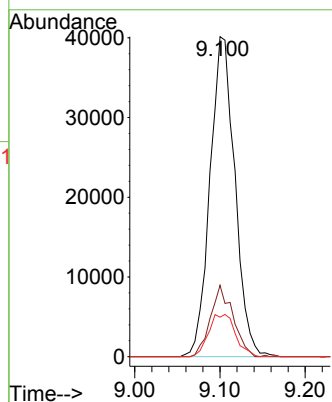
Tgt Ion:114 Resp: 81381

Ion Ratio Lower Upper

114 100

63 20.3 15.9 23.9

88 7.2 12.7 19.1#



#30

2-Butanone

Concen: 2.036 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN081815.D

Acq: 19 Apr 2024 17:40

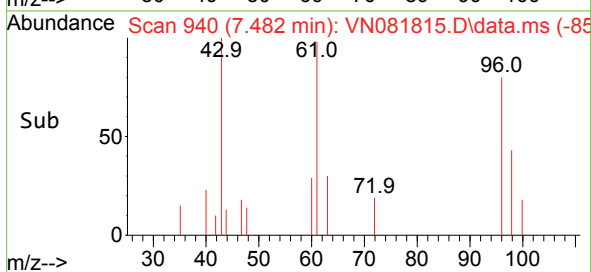
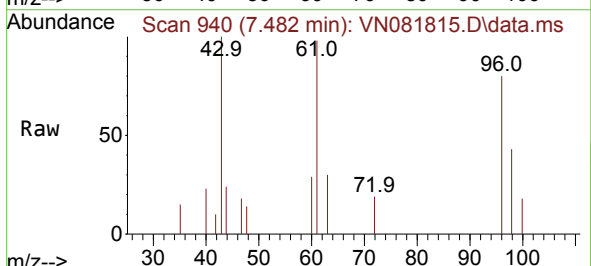
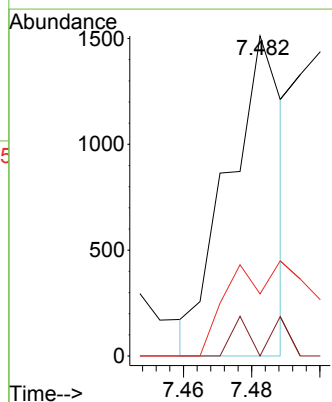
Tgt Ion: 43 Resp: 1664

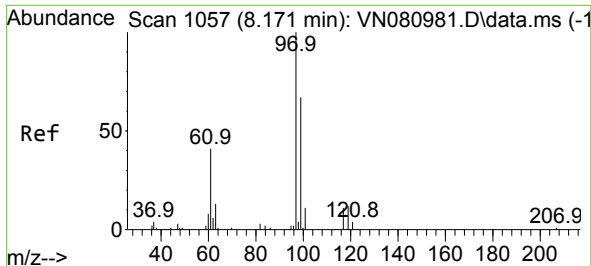
Ion Ratio Lower Upper

43 100

57 4.0 6.7 10.1#

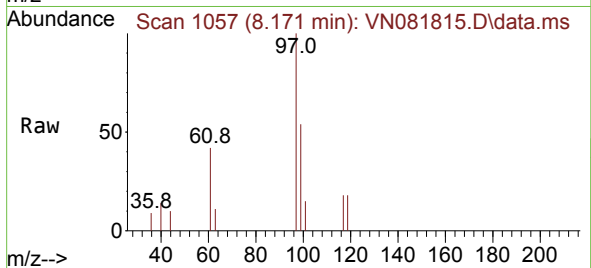
72 20.7 24.0 36.0#



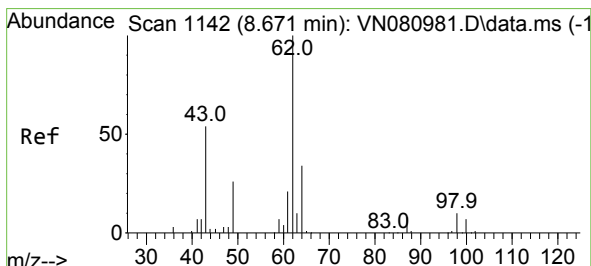
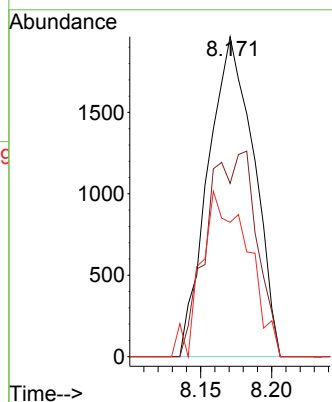
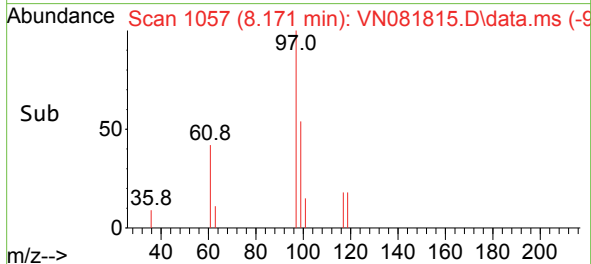


#32
1,1,1-Trichloroethane
Concen: 1.486 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

Instrument :
MSVOA_N
ClientSampleId :

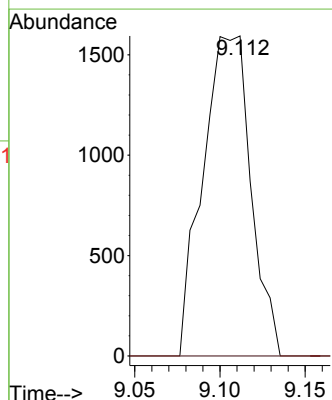
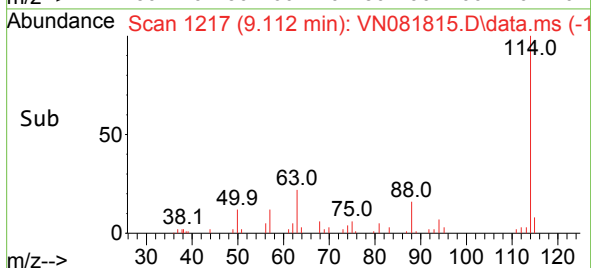
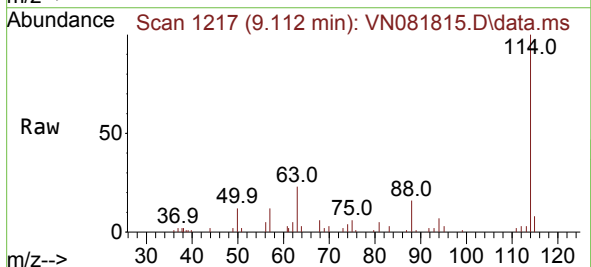


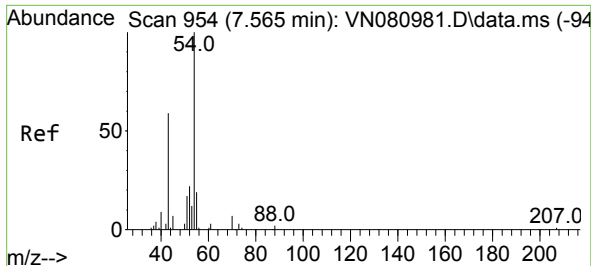
Tgt Ion: 97 Resp: 4381
Ion Ratio Lower Upper
97 100
99 37.9 51.0 76.4#
61 31.0 33.8 50.8#



#36
1,2-Dichloroethane
Concen: 1.386 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.441 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

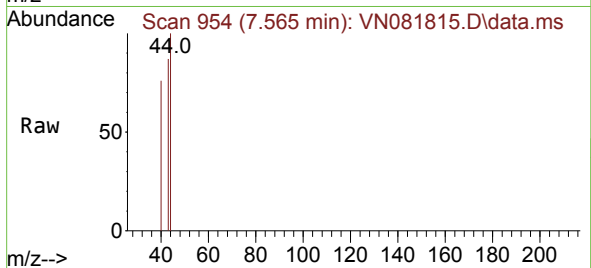
Tgt Ion: 62 Resp: 3134
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.4#



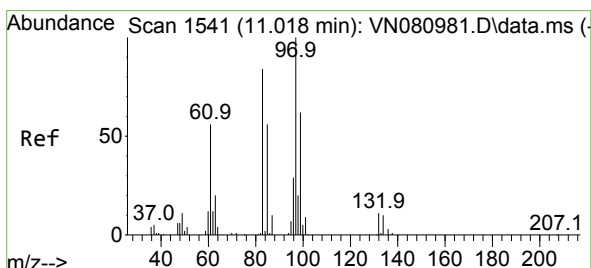
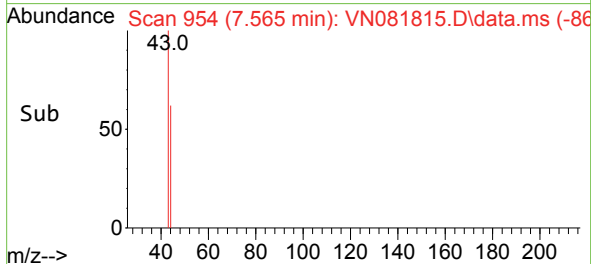
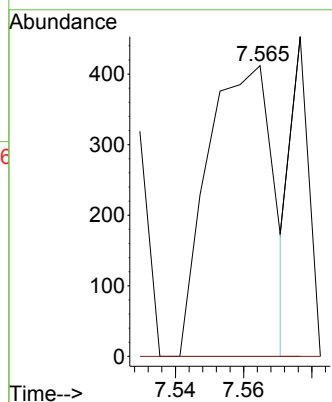


#43
Ethyl Acetate
Concen: 0.309 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

Instrument :
MSVOA_N
ClientSampleId :

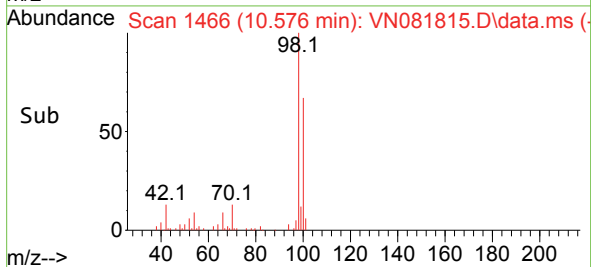
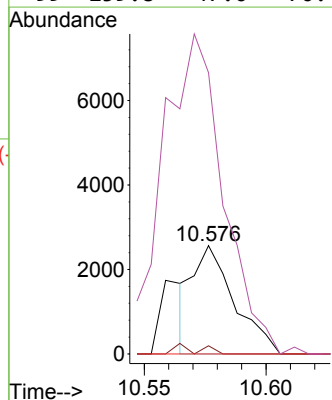
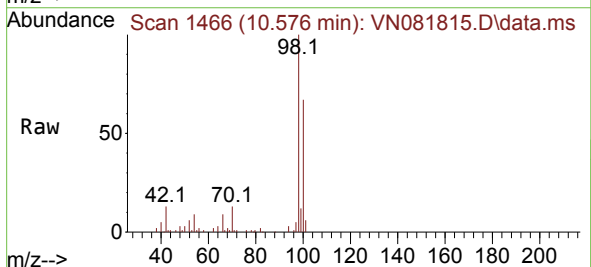


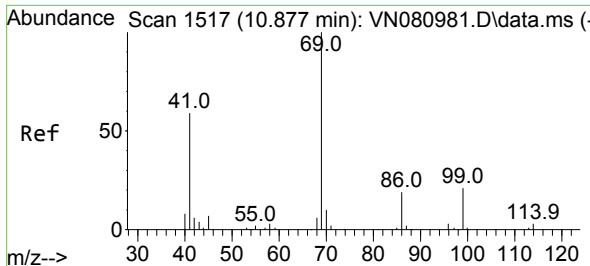
Tgt Ion: 43 Resp: 556
Ion Ratio Lower Upper
43 100
45 0.0 10.6 15.8#



#50
1,1,2-Trichloroethane
Concen: 1.761 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. -0.441 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

Tgt Ion: 97 Resp: 3020
Ion Ratio Lower Upper
97 100
83 7.5 68.1 102.1#
85 0.0 41.8 62.6#
99 259.8 47.0 70.4#

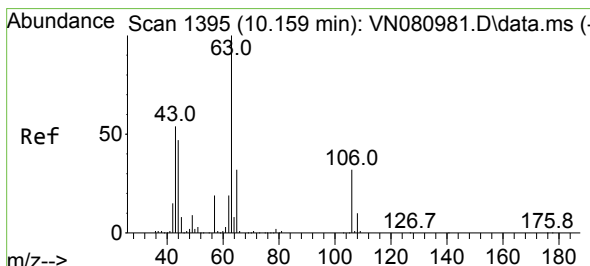
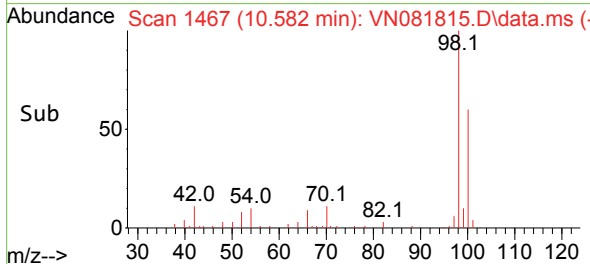
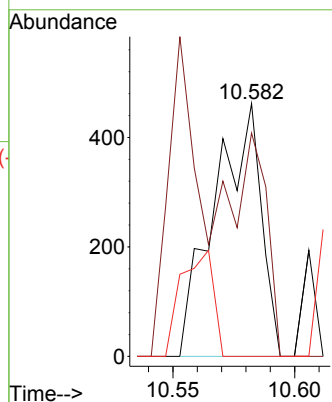
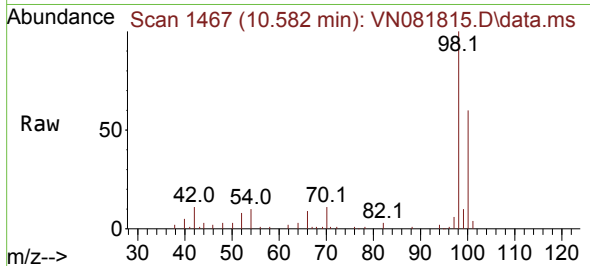




#51
Ethyl methacrylate
Concen: 0.257 ug/l
RT: 10.582 min Scan# 1467
Delta R.T. -0.294 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

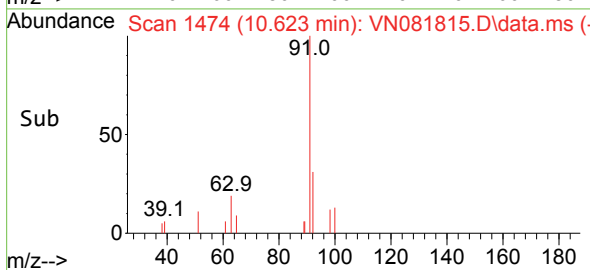
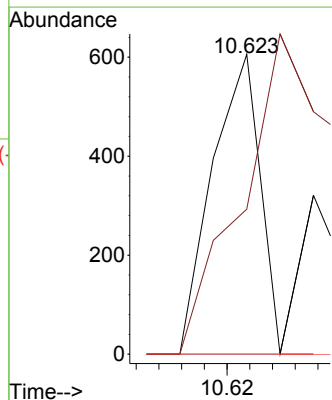
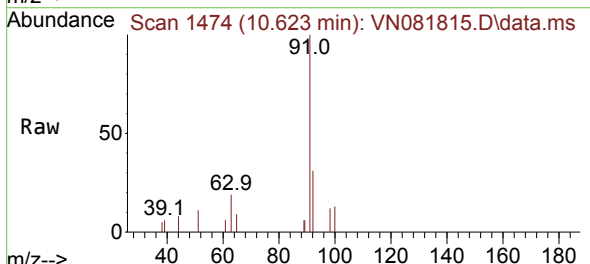
Instrument :
MSVOA_N
ClientSampleId :

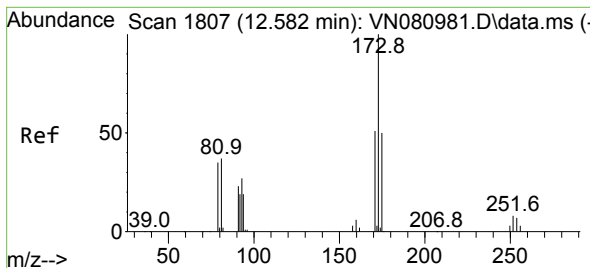
Tgt Ion: 69 Resp: 613
Ion Ratio Lower Upper
69 100
41 88.3 25.5 76.5#
39 0.0 16.0 47.9#



#55
2-Chloroethyl vinyl ether
Concen: 0.302 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. 0.459 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

Tgt Ion: 63 Resp: 354
Ion Ratio Lower Upper
63 100
65 0.0 26.2 39.2#
106 0.0 23.8 35.8#





#56

Bromoform

Concen: 0.495 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.270 min

Lab File: VN081815.D

Acq: 19 Apr 2024 17:40

Instrument :

MSVOA_N

ClientSampleId :

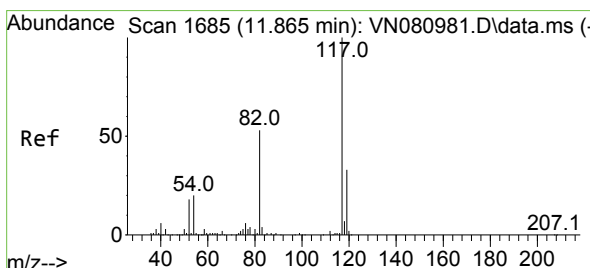
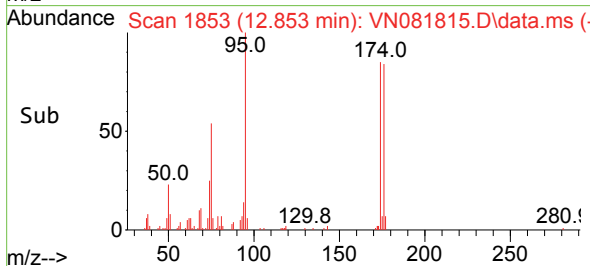
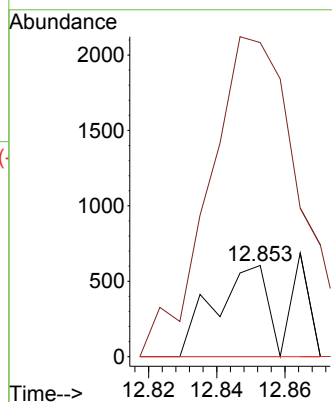
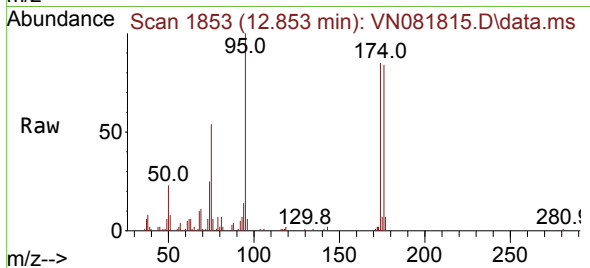
Tgt Ion:173 Resp: 649

Ion Ratio Lower Upper

173 100

175 590.3 40.0 60.0#

254 0.0 8.3 12.5#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN081815.D

Acq: 19 Apr 2024 17:40

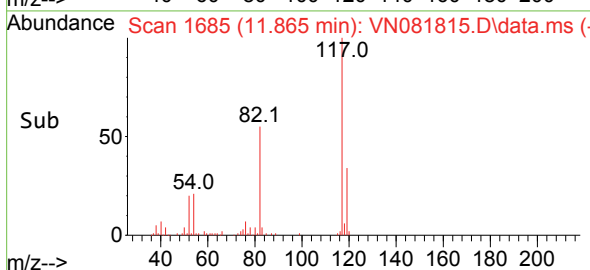
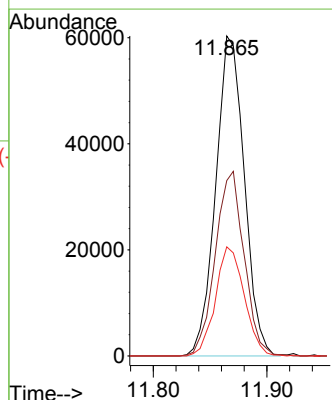
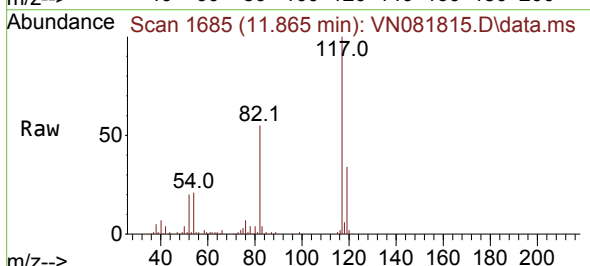
Tgt Ion:117 Resp: 105604

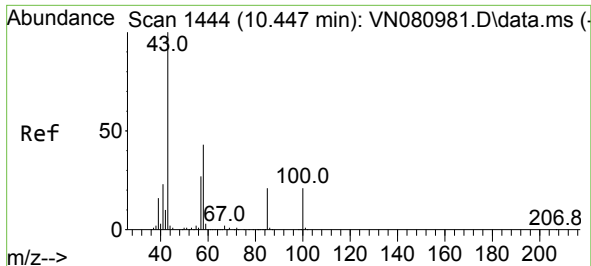
Ion Ratio Lower Upper

117 100

82 58.1 46.6 69.8

119 34.3 25.4 38.2

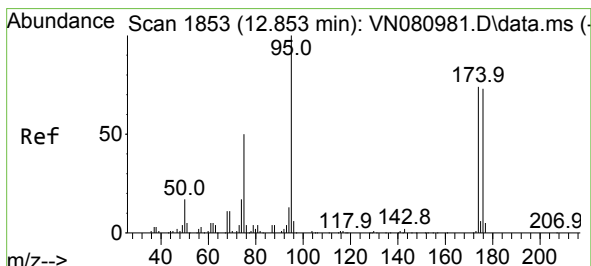
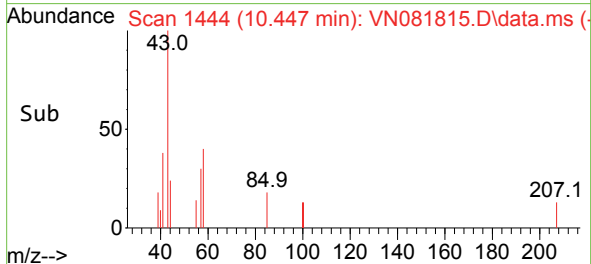
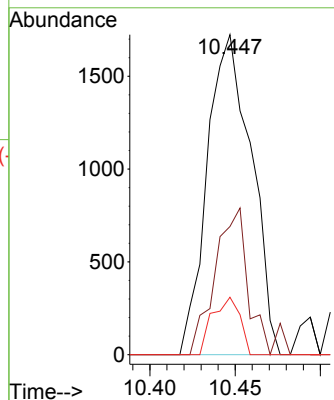
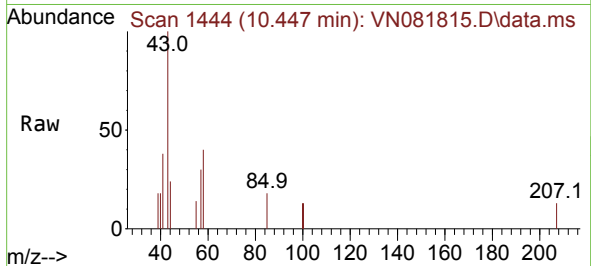




#58
4-Methyl-2-Pentanone
Concen: 1.706 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

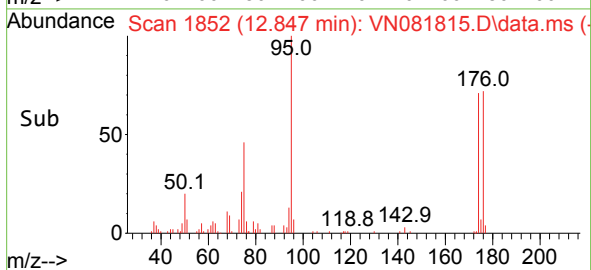
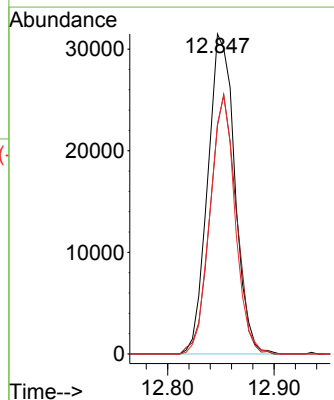
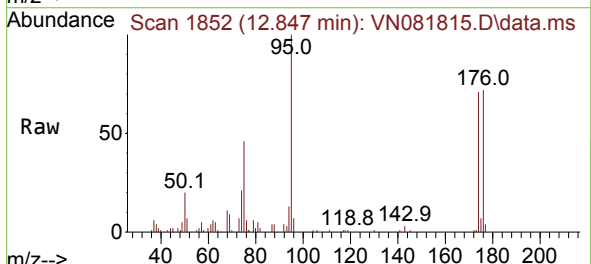
Instrument :
MSVOA_N
ClientSampleId :

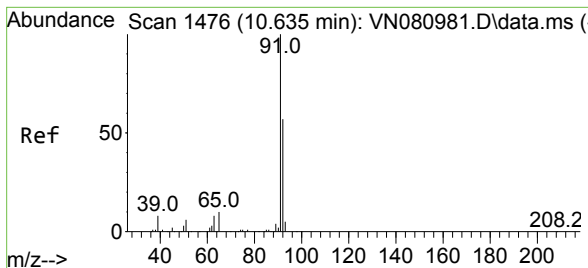
Tgt Ion: 43 Resp: 3098
Ion Ratio Lower Upper
43 100
58 34.0 36.5 54.7#
85 11.2 19.5 29.3#



#60
4-Bromofluorobenzene
Concen: 26.711 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

Tgt Ion: 95 Resp: 55458
Ion Ratio Lower Upper
95 100
174 78.2 60.5 90.7
176 75.1 57.8 86.6





#62

Toluene

Concen: 0.796 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.006 min

Lab File: VN081815.D

Acq: 19 Apr 2024 17:40

Instrument :

MSVOA_N

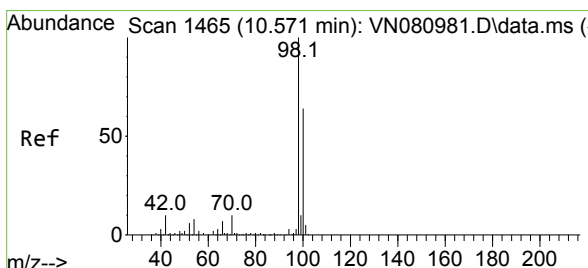
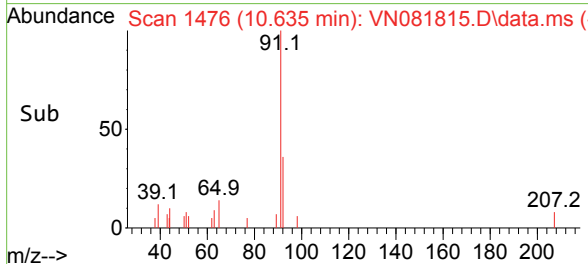
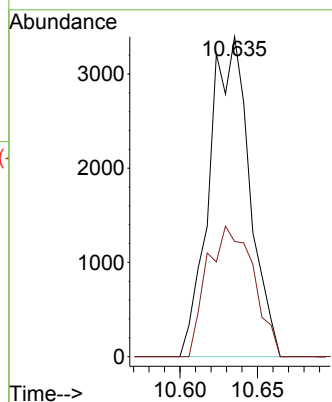
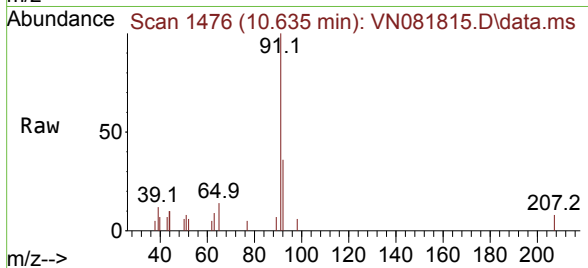
ClientSampleId :

Tgt Ion: 91 Resp: 6112

Ion Ratio Lower Upper

91 100

92 46.9 46.5 69.7



#63

Toluene-d8

Concen: 28.938 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN081815.D

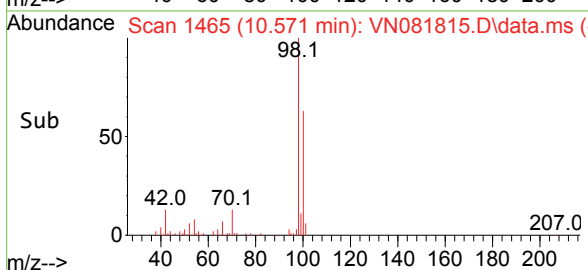
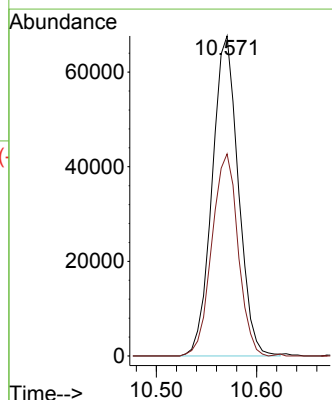
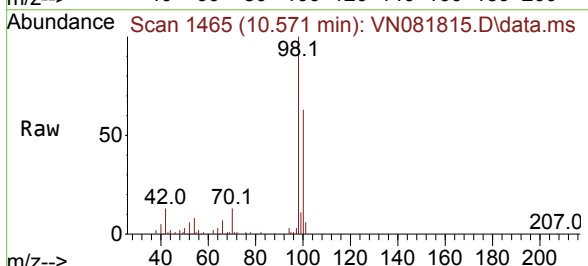
Acq: 19 Apr 2024 17:40

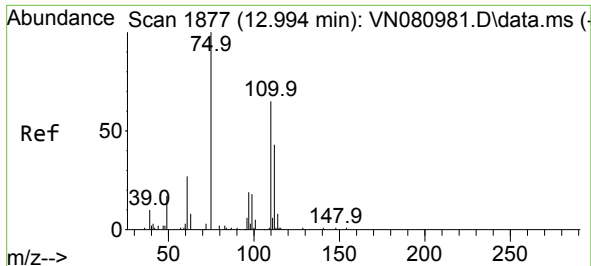
Tgt Ion: 98 Resp: 122583

Ion Ratio Lower Upper

98 100

100 63.1 52.7 79.1

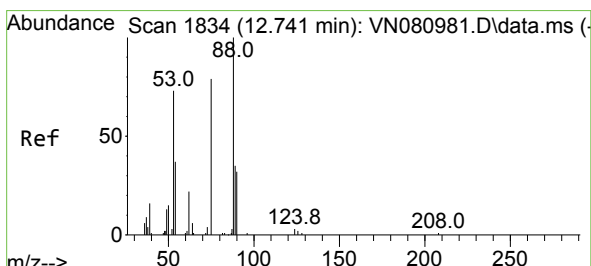
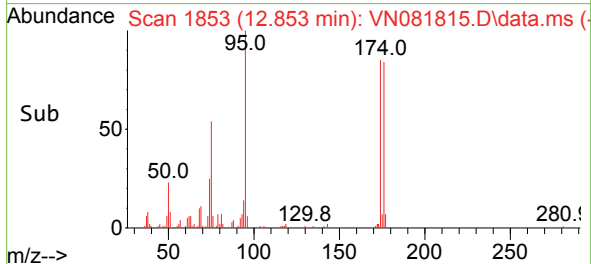
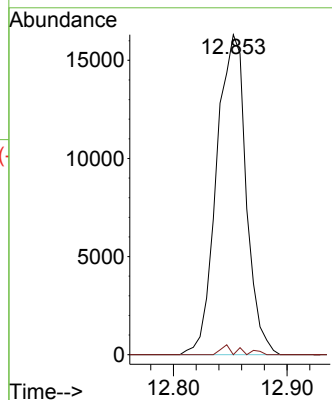
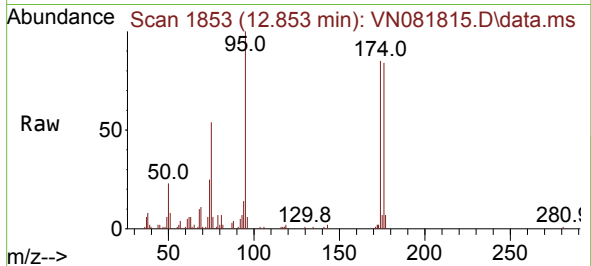




#72
1,2,3-Trichloropropane
Concen: 15.389 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

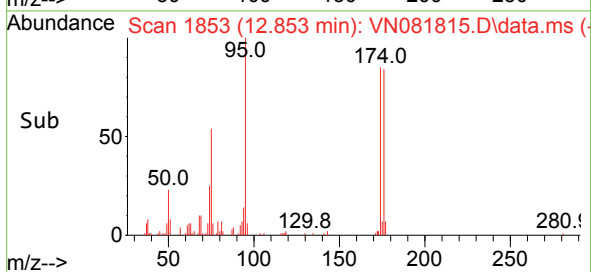
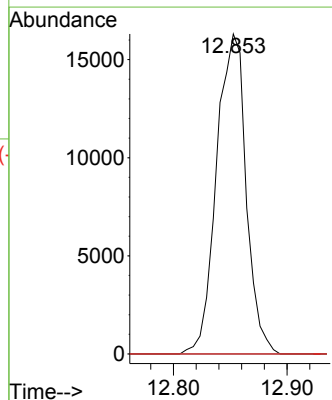
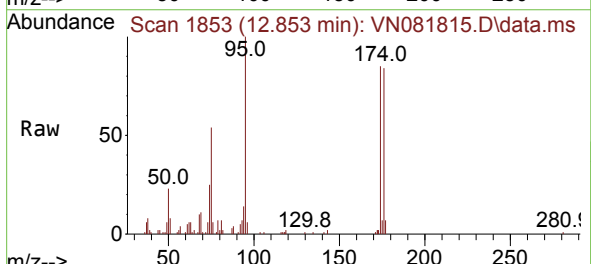
Instrument :
MSVOA_N
ClientSampleId :

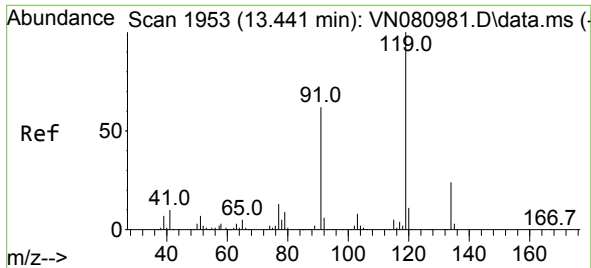
Tgt Ion: 75 Resp: 29493
Ion Ratio Lower Upper
75 100
77 0.9 0.0 367.6



#77
t-1,4-Dichloro-2-butene
Concen: 37.161 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

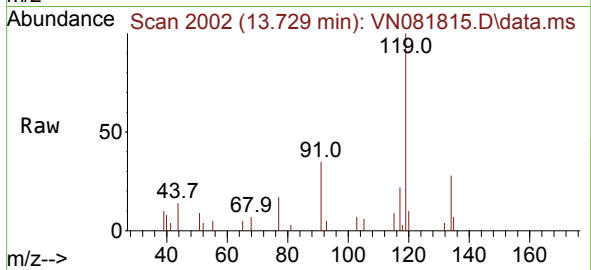
Tgt Ion: 75 Resp: 29493
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#



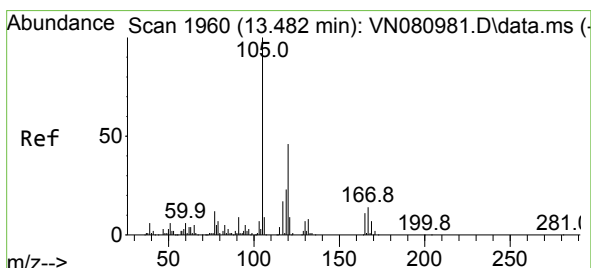
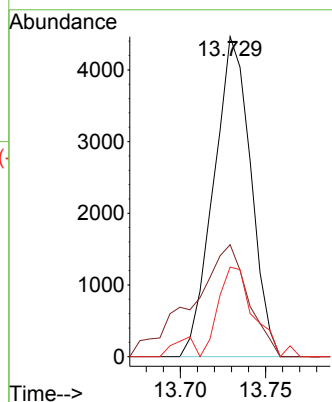
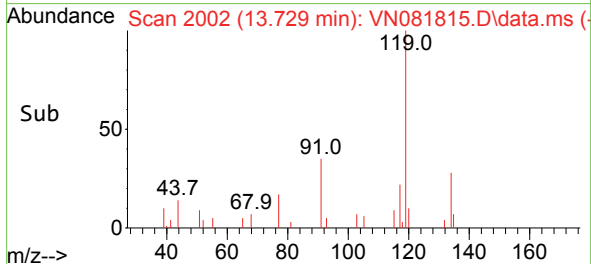


#79
tert-butylbenzene
Concen: 1.180 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.288 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40

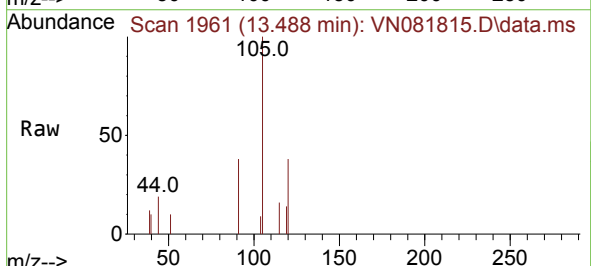
Instrument :
MSVOA_N
ClientSampleId :



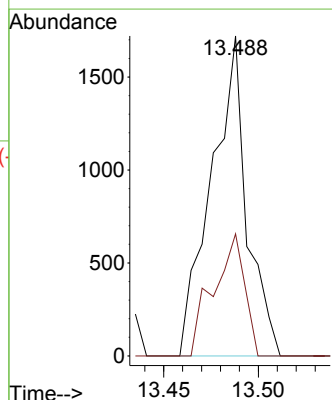
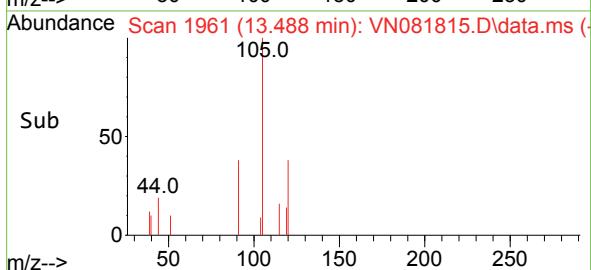
Tgt Ion:119 Resp: 6751
Ion Ratio Lower Upper
119 100
91 39.3 0.0 138.8
134 26.1 0.0 48.6

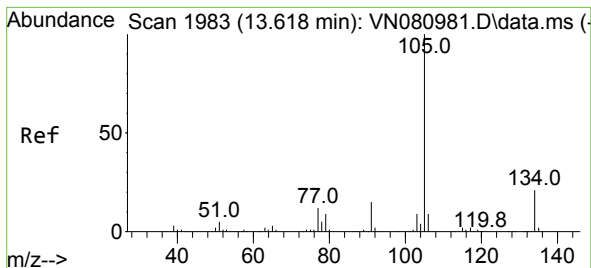


#80
1,2,4-Trimethylbenzene
Concen: 0.333 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.006 min
Lab File: VN081815.D
Acq: 19 Apr 2024 17:40



Tgt Ion:105 Resp: 2236
Ion Ratio Lower Upper
105 100
120 33.5 0.0 86.8





#81

sec-Butylbenzene

Concen: 0.271 ug/l

RT: 13.488 min Scan# 1983

Delta R.T. -0.129 min

Lab File: VN081815.D

Acq: 19 Apr 2024 17:40

Instrument :

MSVOA_N

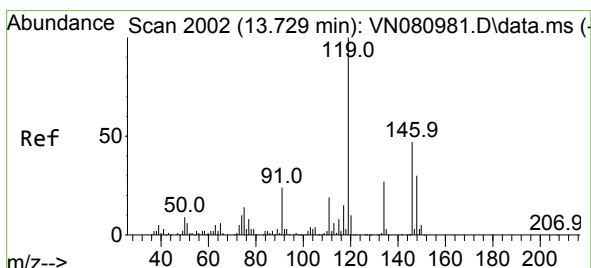
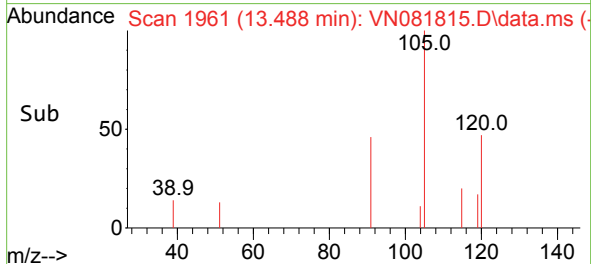
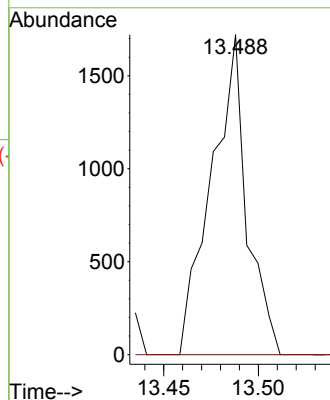
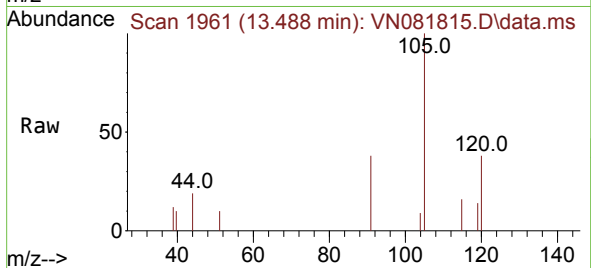
ClientSampleId :

Tgt Ion:105 Resp: 2236

Ion Ratio Lower Upper

105 100

134 10.2 0.0 39.0



#82

p-Isopropyltoluene

Concen: 0.975 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN081815.D

Acq: 19 Apr 2024 17:40

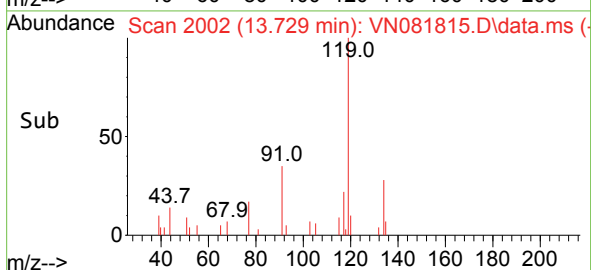
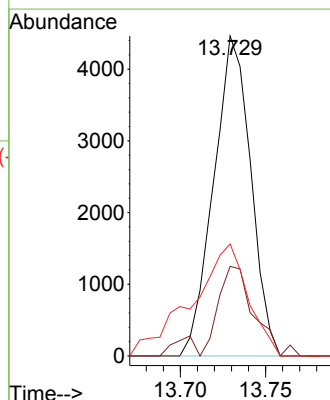
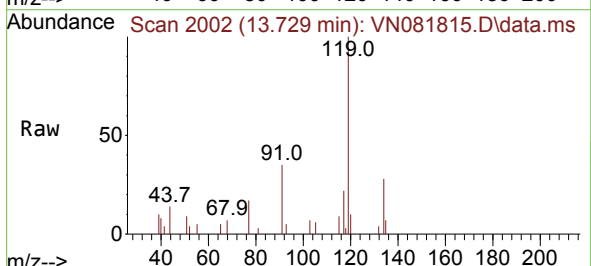
Tgt Ion:119 Resp: 6751

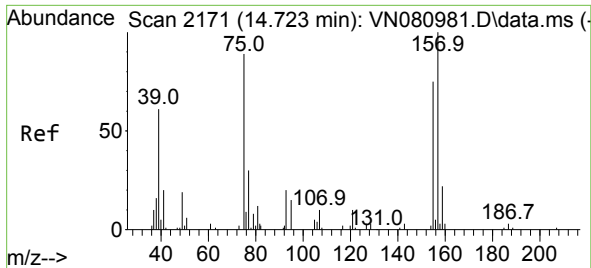
Ion Ratio Lower Upper

119 100

134 26.1 0.0 49.2

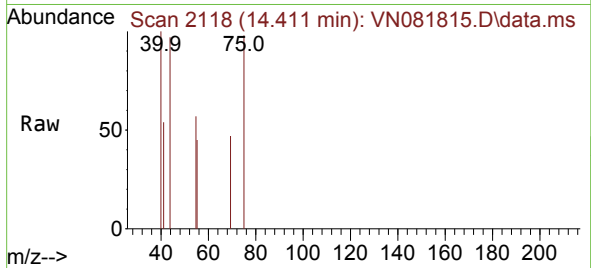
91 39.3 0.0 48.8





#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.428 ug/l
 RT: 14.411 min Scan# 21
 Delta R.T. -0.312 min
 Lab File: VN081815.D
 Acq: 19 Apr 2024 17:40

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 193
 Ion Ratio Lower Upper
 75 100
 155 0.0 61.7 92.5#
 157 0.0 83.6 125.4#

