

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041924\
 Data File : VN081814.D
 Acq On : 19 Apr 2024 17:16
 Operator : JC\MD
 Sample : P2212-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 19 23:47:10 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)

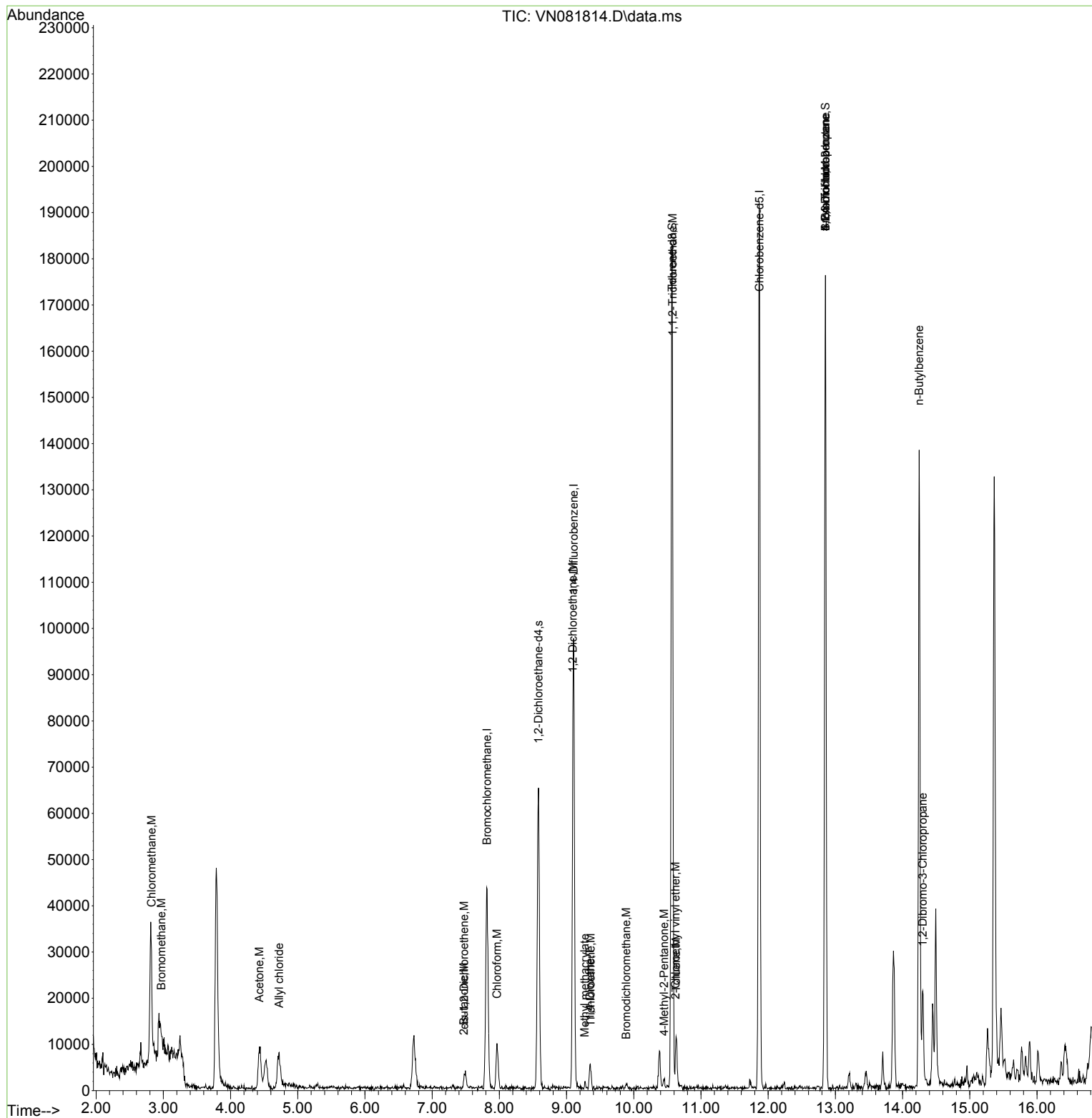
Internal Standards						
1) Bromochloromethane	7.818	128	15737	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	81894	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	106174	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	51332	26.552	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	88.500%#
60) 4-Bromofluorobenzene	12.853	95	54681	26.195	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	87.333%
63) Toluene-d8	10.571	98	127575	29.955	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.833%
Target Compounds						
					Qvalue	
3) Chloromethane	2.824	50	417	0.219	ug/l	99
5) Bromomethane	2.971	94	665	0.400	ug/l #	5
15) Acetone	4.430	58	2975	14.603	ug/l	92
17) Allyl chloride	4.724	41	1199	0.489	ug/l	84
22) cis-1,2-Dichloroethene	7.477	96	685	0.255	ug/l	94
25) Chloroform	7.965	83	8404	1.898	ug/l #	80
30) 2-Butanone	7.471	43	634	0.771	ug/l #	52
36) 1,2-Dichloroethane	9.094	62	2900	1.275	ug/l #	72
37) Trichloroethene	9.359	130	2049	1.116	ug/l #	62
41) Bromodichloromethane	9.888	83	735	0.280	ug/l #	91
45) 1,4-Dioxane	9.347	88	254	7.578	ug/l #	36
46) Methyl methacrylate	9.271	41	302	0.221	ug/l #	17
50) 1,1,2-Trichloroethane	10.576	97	4625	2.680	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.624	63	427	0.362	ug/l #	1
56) Bromoform	12.853	173	762	0.578	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	1254	0.687	ug/l #	78
62) Toluene	10.629	91	7954	1.030	ug/l #	65
72) 1,2,3-Trichloropropane	12.853	75	30277	15.714	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	30277	37.944	ug/l #	12
85) n-Butylbenzene	14.247	91	2790	0.476	ug/l	49
88) 1,2-Dibromo-3-Chloropr...	14.300	75	319	0.703	ug/l #	4

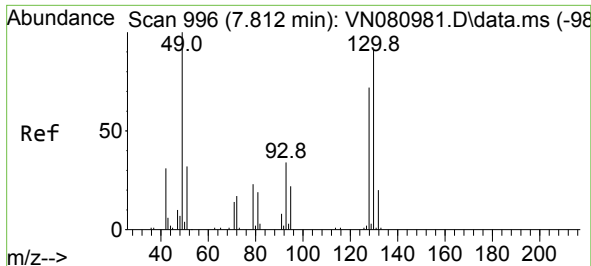
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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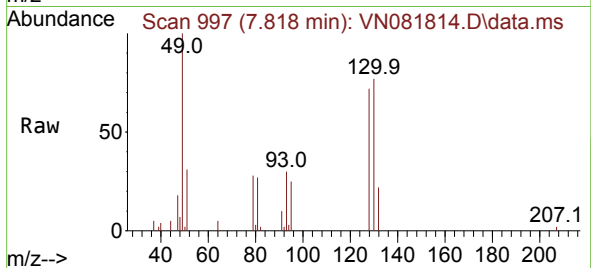
Quant Time: Apr 19 23:47:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 11 09:25:01 2024
Response via : Initial Calibration



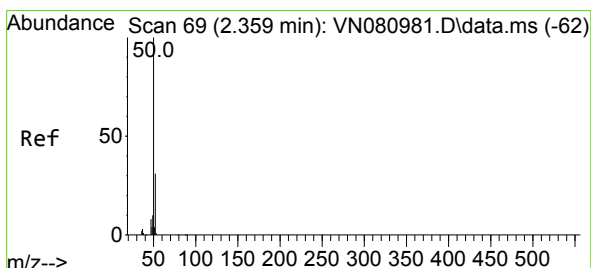
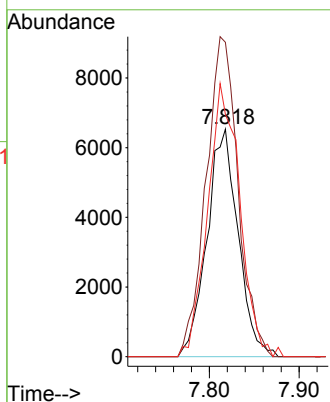
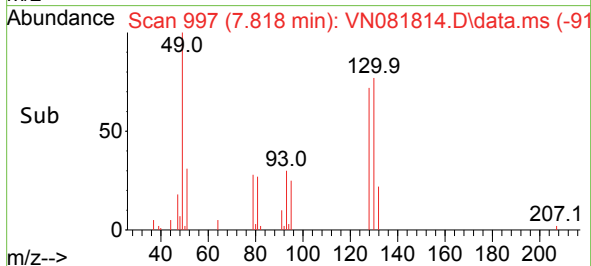


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

Instrument :
MSVOA_N
ClientSampleId :

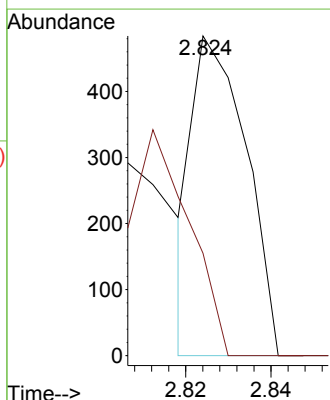
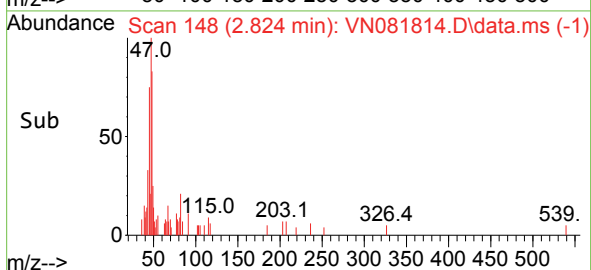
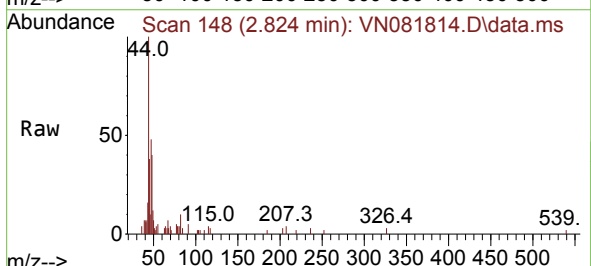


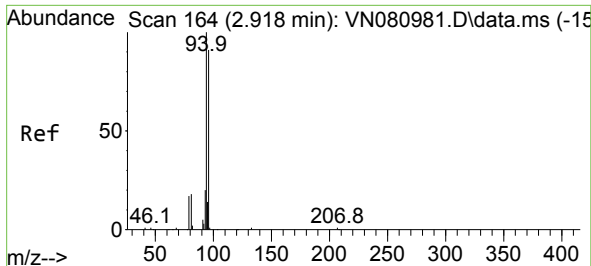
Tgt Ion:128 Resp: 15737
Ion Ratio Lower Upper
128 100
49 144.7 0.0 403.7
130 123.5 0.0 323.3



#3
Chloromethane
Concen: 0.219 ug/l
RT: 2.824 min Scan# 148
Delta R.T. 0.459 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

Tgt Ion: 50 Resp: 417
Ion Ratio Lower Upper
50 100
52 32.0 25.4 38.0

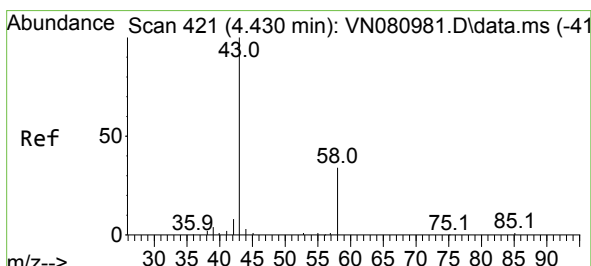
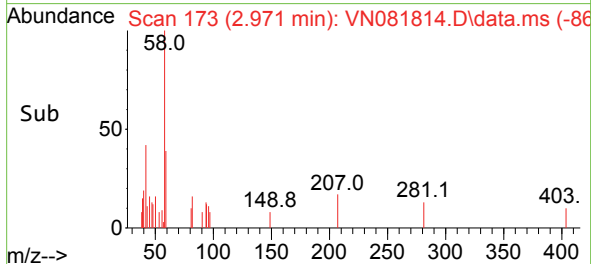
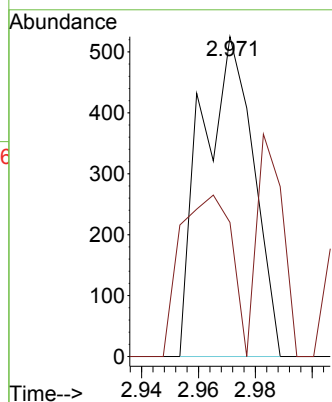
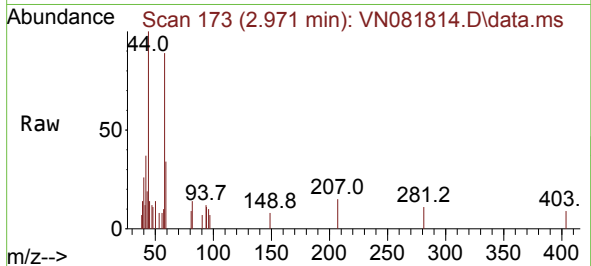




#5
Bromomethane
Concen: 0.400 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

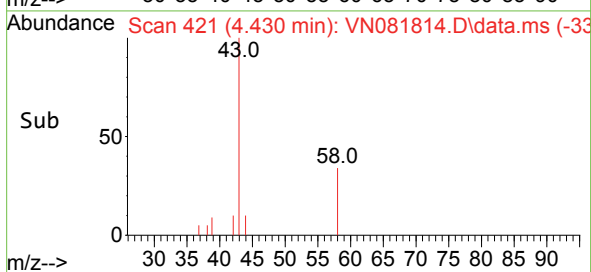
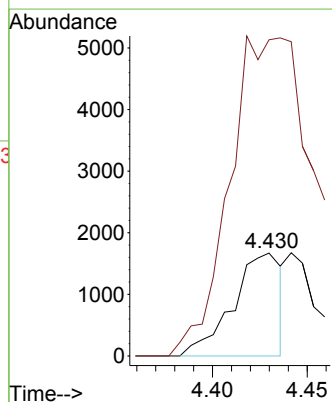
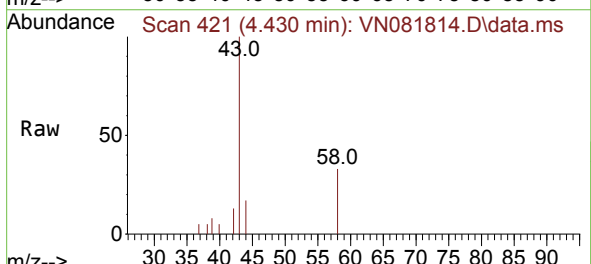
Instrument :
MSVOA_N
ClientSampleId :

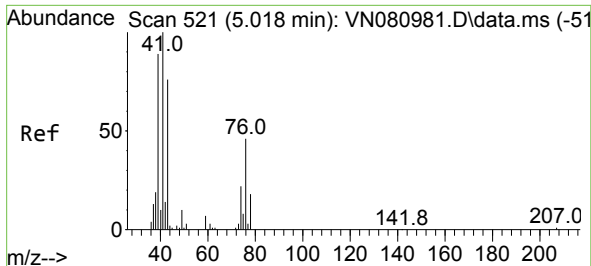
Tgt Ion: 94 Resp: 665
Ion Ratio Lower Upper
94 100
96 0.8 72.8 109.2#



#15
Acetone
Concen: 14.603 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

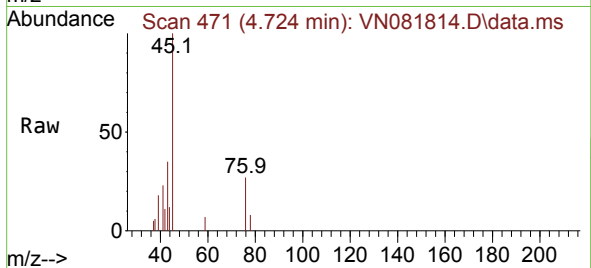
Tgt Ion: 58 Resp: 2975
Ion Ratio Lower Upper
58 100
43 294.2 223.1 334.7



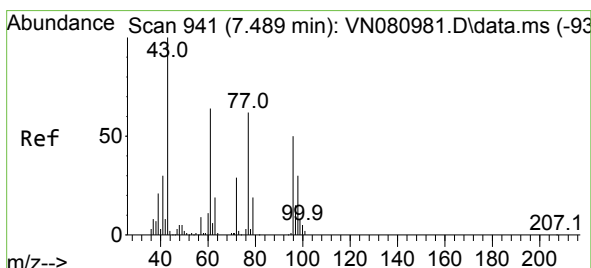
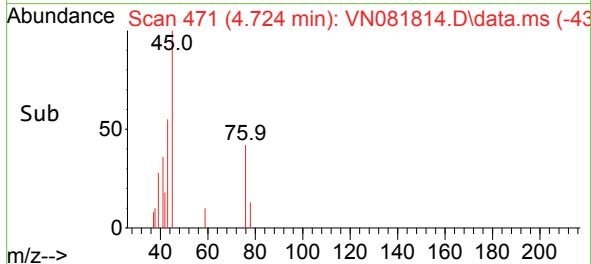
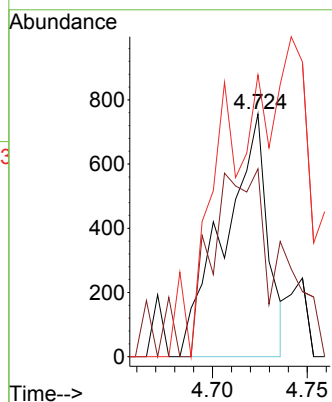


#17
 Allyl chloride
 Concen: 0.489 ug/l
 RT: 4.724 min Scan# 41
 Delta R.T. -0.300 min
 Lab File: VN081814.D
 Acq: 19 Apr 2024 17:16

Instrument :
 MSVOA_N
 ClientSampleId :

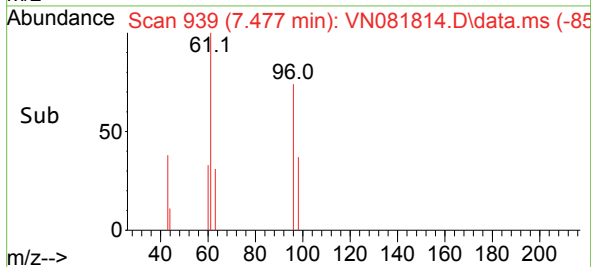
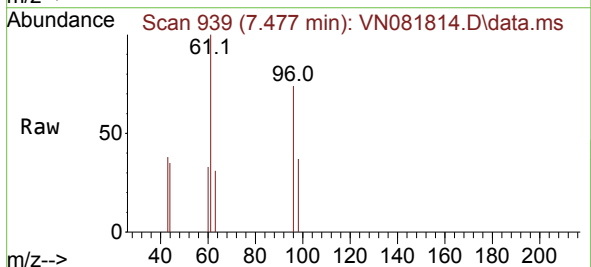
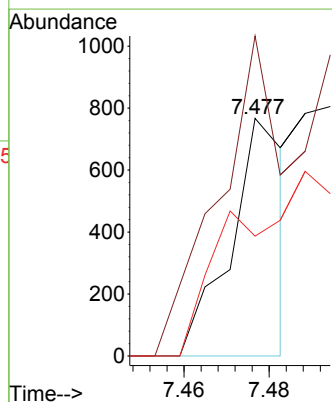


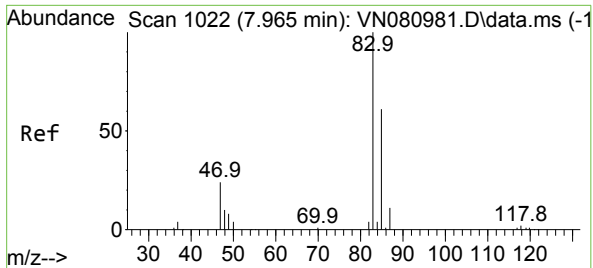
Tgt Ion: 41 Resp: 1199
 Ion Ratio Lower Upper
 41 100
 39 77.4 37.6 112.9
 76 81.3 27.8 83.4



#22
 cis-1,2-Dichloroethene
 Concen: 0.255 ug/l
 RT: 7.477 min Scan# 939
 Delta R.T. -0.006 min
 Lab File: VN081814.D
 Acq: 19 Apr 2024 17:16

Tgt Ion: 96 Resp: 685
 Ion Ratio Lower Upper
 96 100
 61 146.6 113.5 170.3
 98 57.5 52.0 78.0

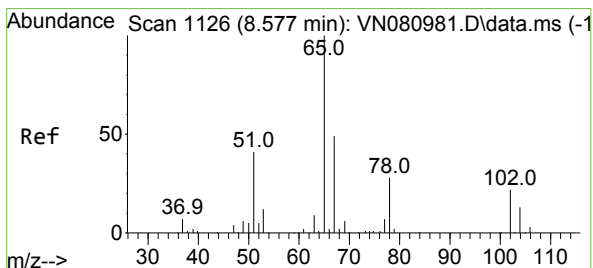
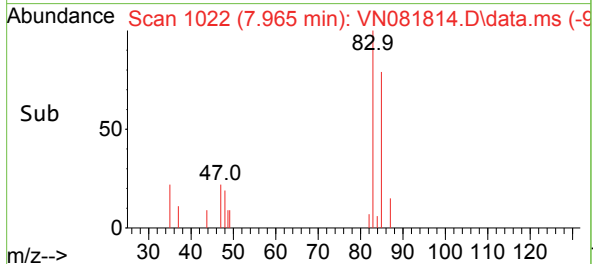
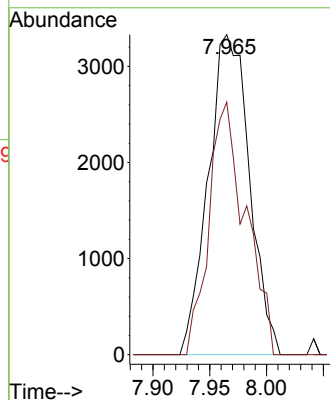
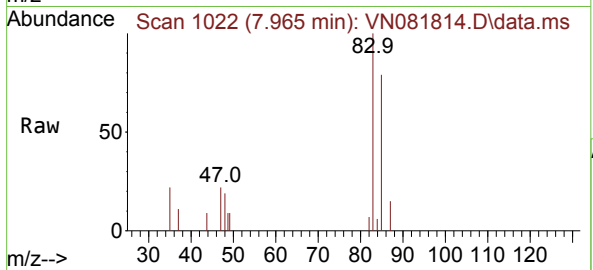




#25
Chloroform
Concen: 1.898 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.006 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

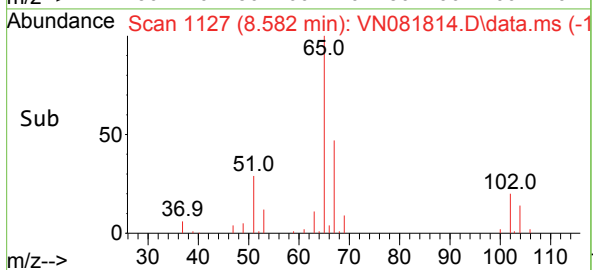
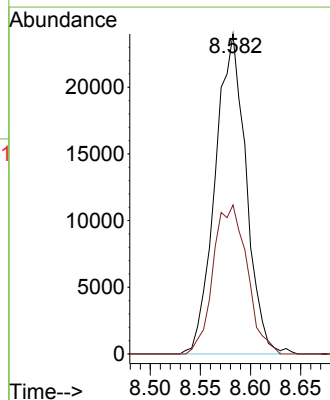
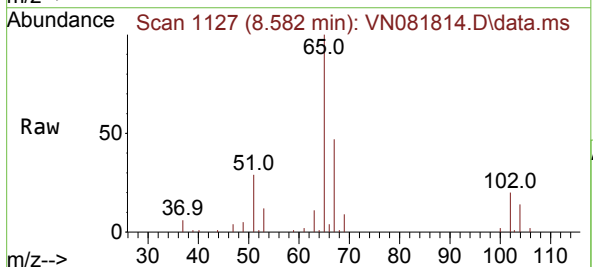
Instrument :
MSVOA_N
ClientSampleId :

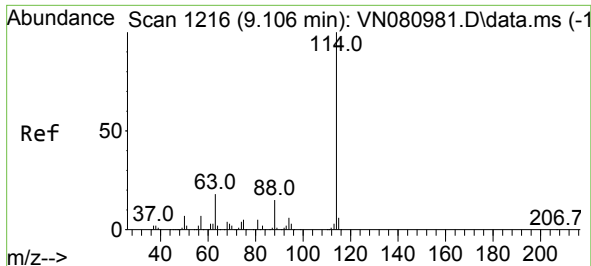
Tgt Ion: 83 Resp: 8404
Ion Ratio Lower Upper
83 100
85 78.9 50.9 76.3#



#27
1,2-Dichloroethane-d4
Concen: 26.552 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

Tgt Ion: 65 Resp: 51332
Ion Ratio Lower Upper
65 100
67 51.2 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 114

Delta R.T. 0.006 min

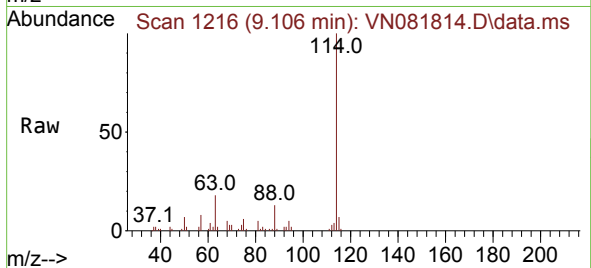
Lab File: VN081814.D

Acq: 19 Apr 2024 17:16

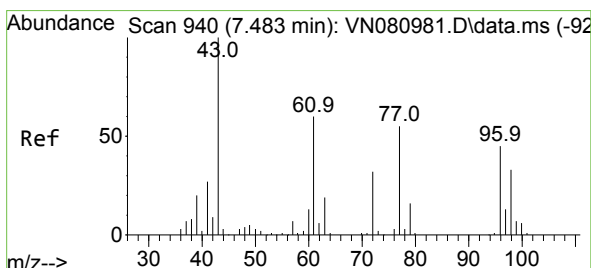
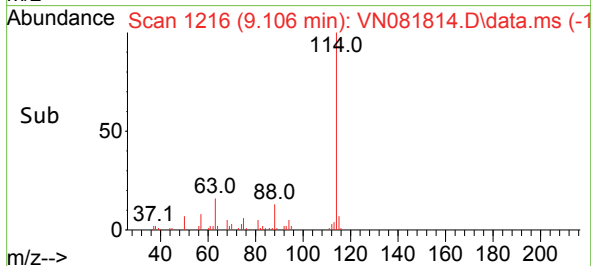
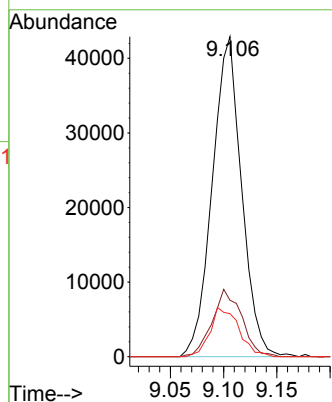
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	114	Resp:	81894
Ion Ratio	100	Lower	Upper
63	21.3	15.9	23.9
88	15.2	12.7	19.1



#30

2-Butanone

Concen: 0.771 ug/l

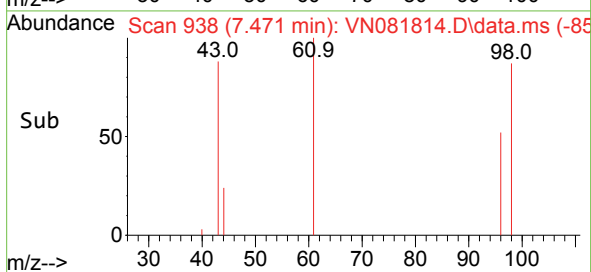
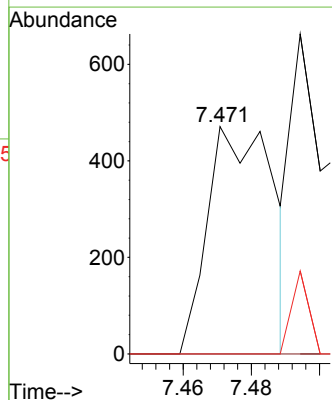
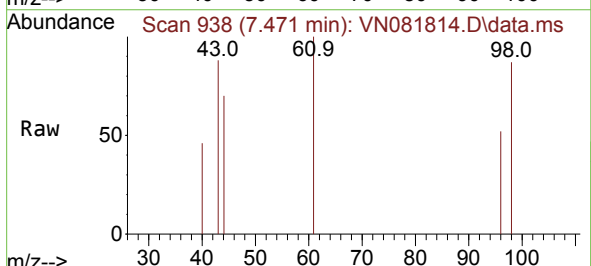
RT: 7.471 min Scan# 938

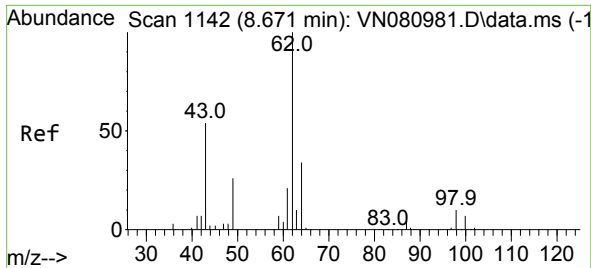
Delta R.T. -0.012 min

Lab File: VN081814.D

Acq: 19 Apr 2024 17:16

Tgt Ion:	43	Resp:	634
Ion Ratio	100	Lower	Upper
57	0.0	6.7	10.1#
72	0.0	24.0	36.0#

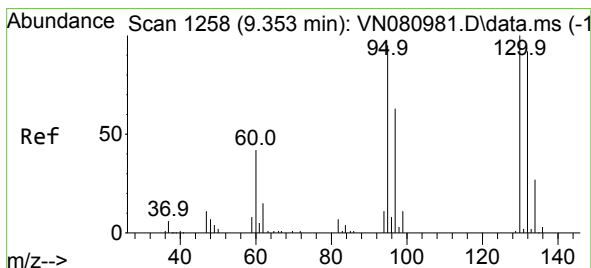
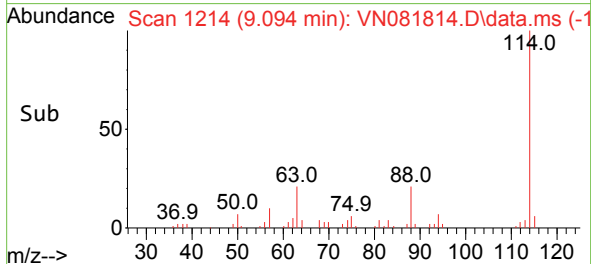
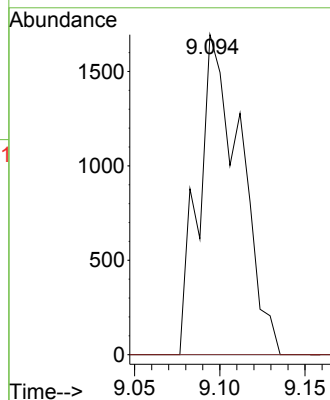
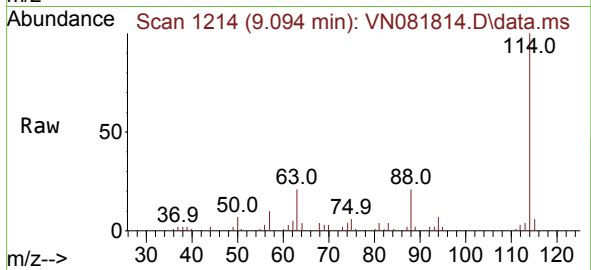




#36
1,2-Dichloroethane
Concen: 1.275 ug/l
RT: 9.094 min Scan# 1142
Delta R.T. 0.423 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

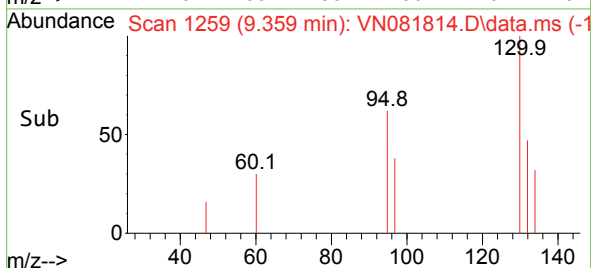
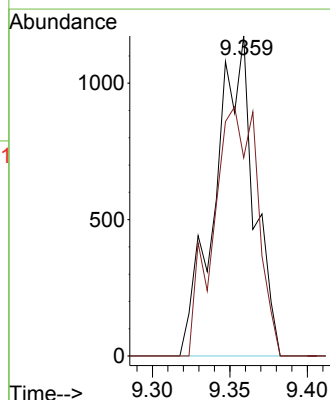
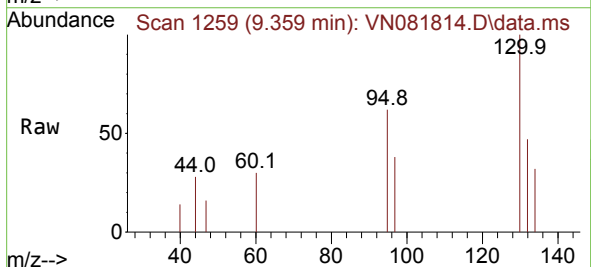
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MSVOA_N
ClientSampleId :

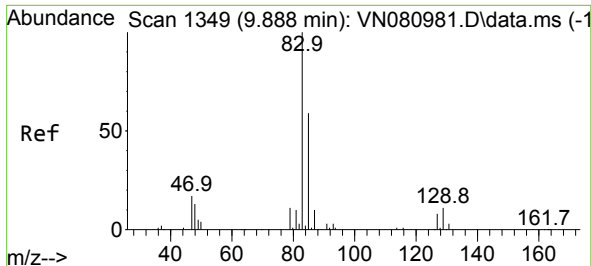
Tgt Ion: 62 Resp: 2900
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.4#



#37
Trichloroethene
Concen: 1.116 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. 0.006 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

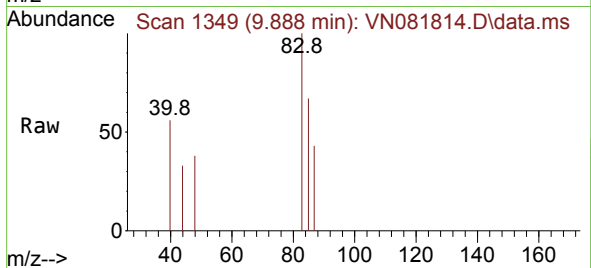
Tgt Ion: 130 Resp: 2049
Ion Ratio Lower Upper
130 100
95 62.0 80.2 120.4#



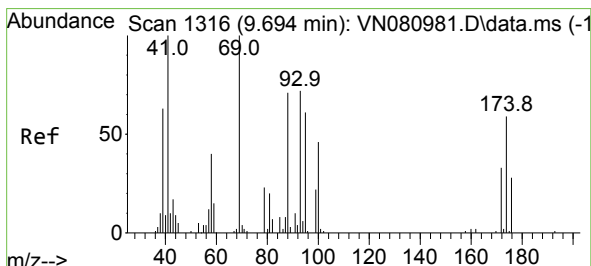
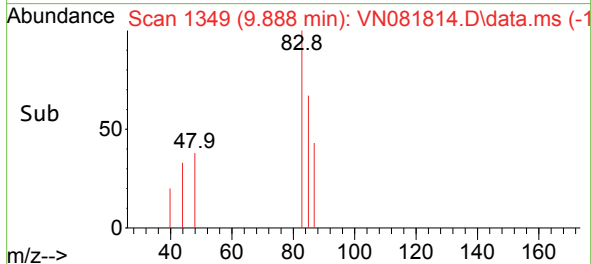
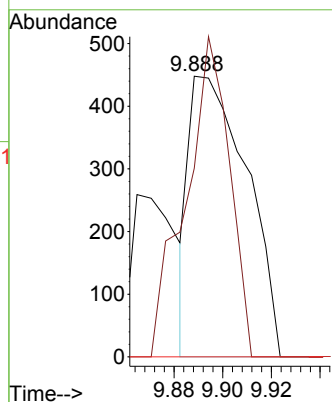


#41
Bromodichloromethane
Concen: 0.280 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

Instrument :
MSVOA_N
ClientSampleId :

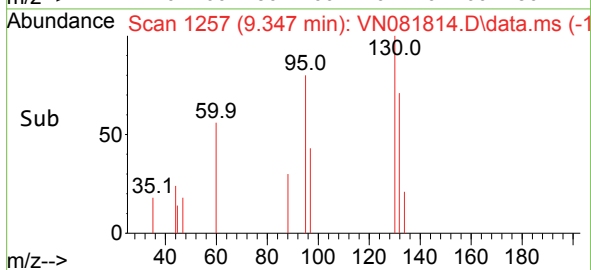
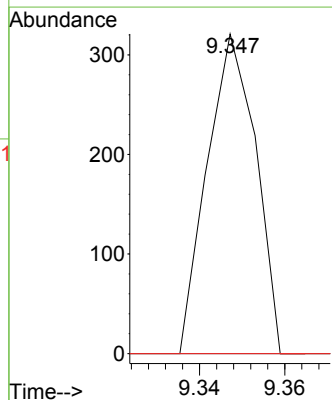
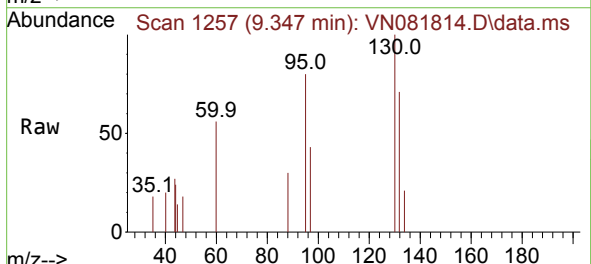


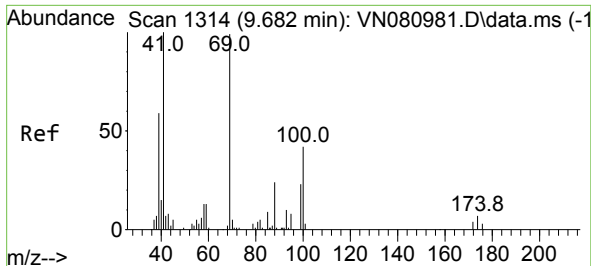
Tgt Ion: 83 Resp: 735
Ion Ratio Lower Upper
83 100
85 67.2 49.4 74.2
127 0.0 7.3 10.9#



#45
1,4-Dioxane
Concen: 7.578 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.347 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

Tgt Ion: 88 Resp: 254
Ion Ratio Lower Upper
88 100
43 22.4 19.8 29.6
58 0.0 55.4 83.0#





#46

Methyl methacrylate

Concen: 0.221 ug/l

RT: 9.271 min Scan# 1

Delta R.T. -0.412 min

Lab File: VN081814.D

Acq: 19 Apr 2024 17:16

Instrument :

MSVOA_N

ClientSampleId :

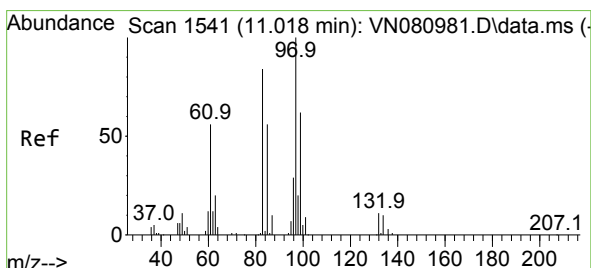
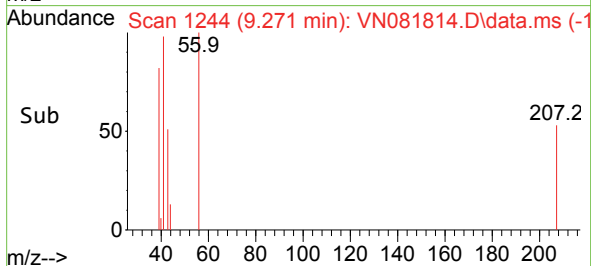
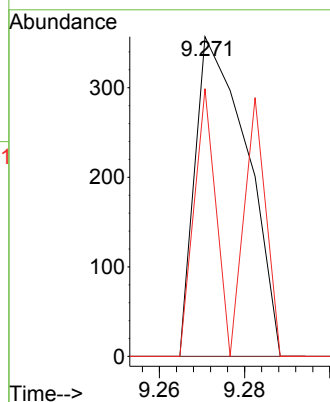
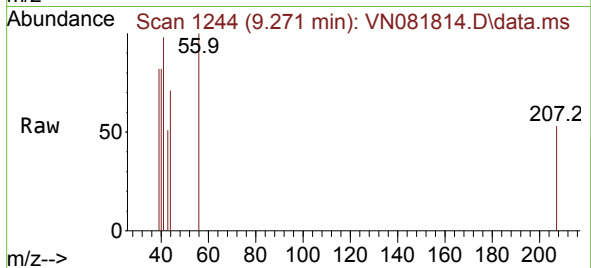
Tgt Ion: 41 Resp: 302

Ion Ratio Lower Upper

41 100

69 0.0 51.1 153.3#

39 83.8 25.8 77.3#



#50

1,1,2-Trichloroethane

Concen: 2.680 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. -0.441 min

Lab File: VN081814.D

Acq: 19 Apr 2024 17:16

Tgt Ion: 97 Resp: 4625

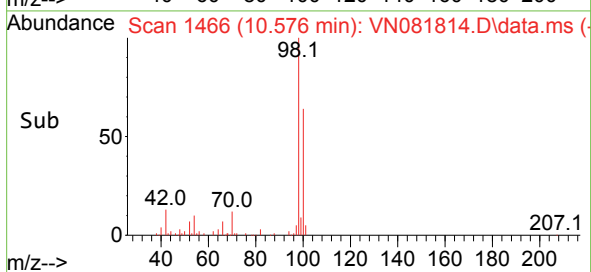
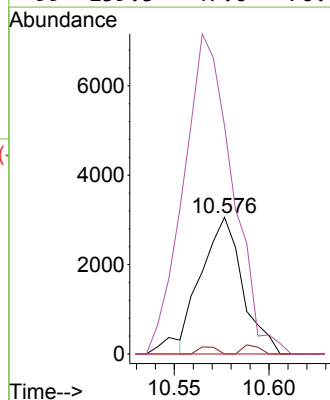
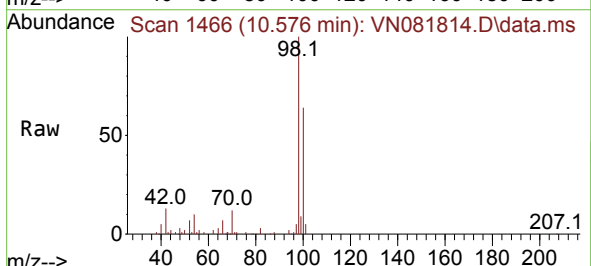
Ion Ratio Lower Upper

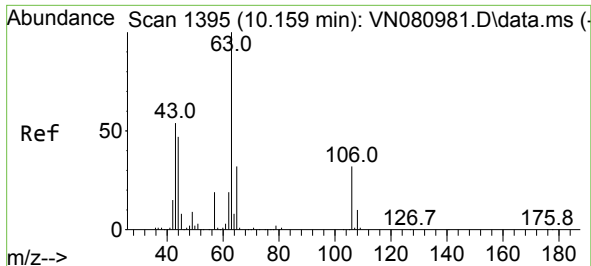
97 100

83 0.0 68.1 102.1#

85 0.0 41.8 62.6#

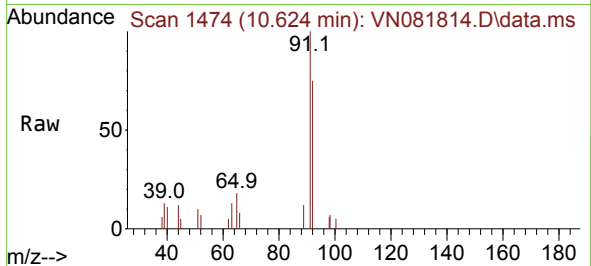
99 159.5 47.0 70.4#



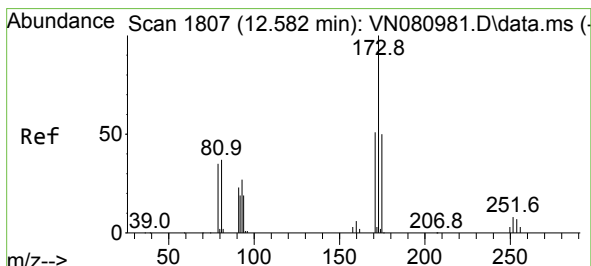
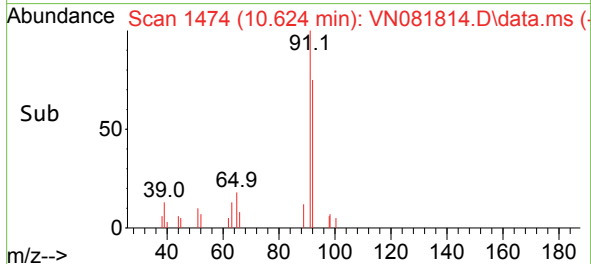
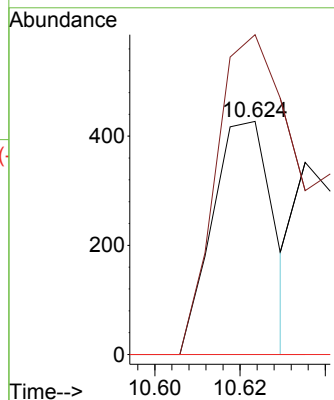


#55
2-Chloroethyl vinyl ether
Concen: 0.362 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. 0.459 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

Instrument :
MSVOA_N
ClientSampleId :

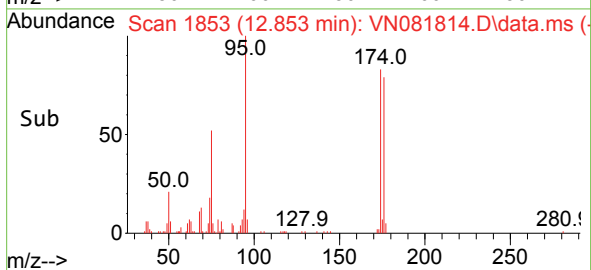
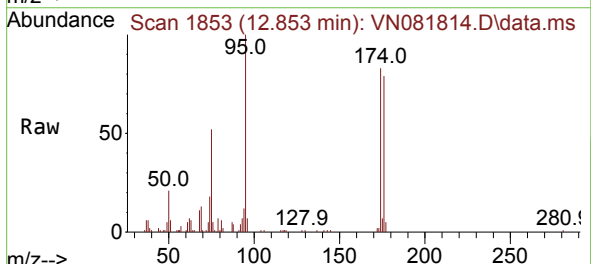
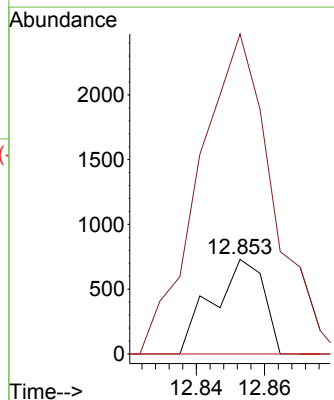


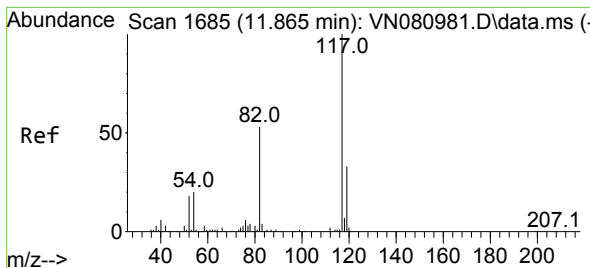
Tgt Ion: 63 Resp: 427
Ion Ratio Lower Upper
63 100
65 172.6 26.2 39.2#
106 0.0 23.8 35.8#



#56
Bromoform
Concen: 0.578 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

Tgt Ion: 173 Resp: 762
Ion Ratio Lower Upper
173 100
175 488.5 40.0 60.0#
254 0.0 8.3 12.5#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.006 min

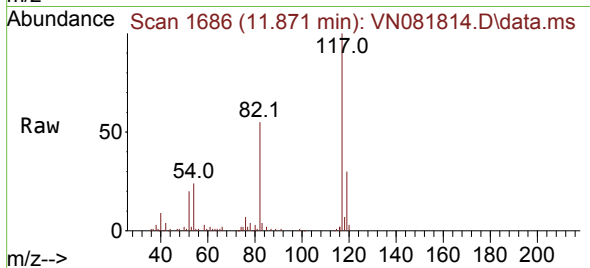
Lab File: VN081814.D

Acq: 19 Apr 2024 17:16

Instrument :

MSVOA_N

ClientSampleId :



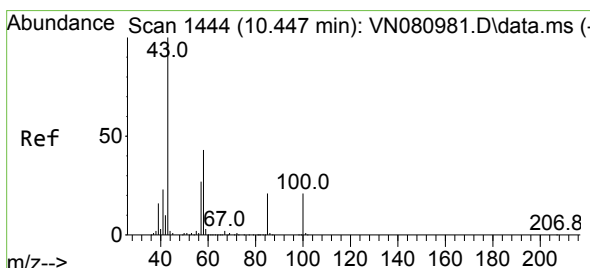
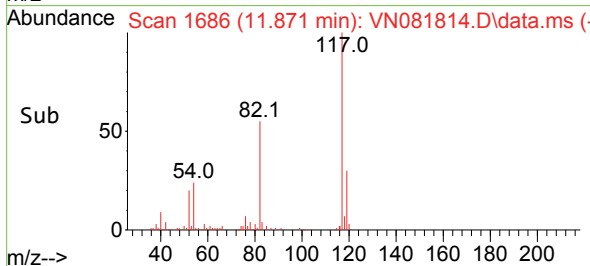
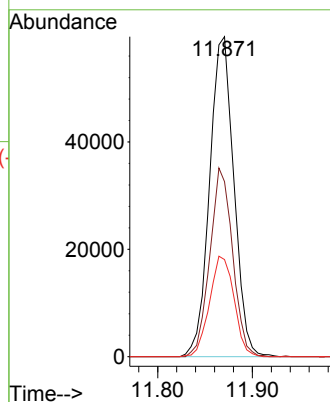
Tgt Ion:117 Resp: 106174

Ion Ratio Lower Upper

117 100

82 55.4 46.6 69.8

119 31.7 25.4 38.2



#58

4-Methyl-2-Pentanone

Concen: 0.687 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.006 min

Lab File: VN081814.D

Acq: 19 Apr 2024 17:16

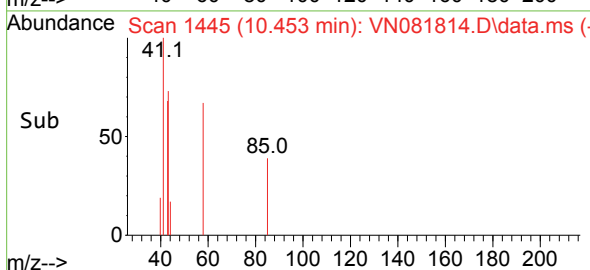
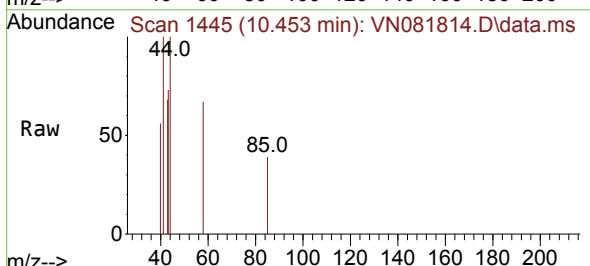
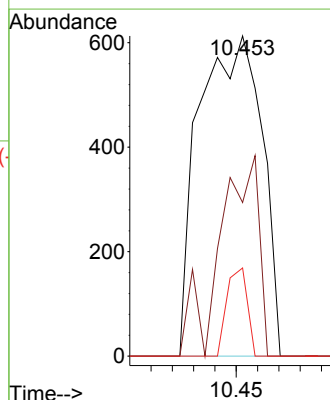
Tgt Ion: 43 Resp: 1254

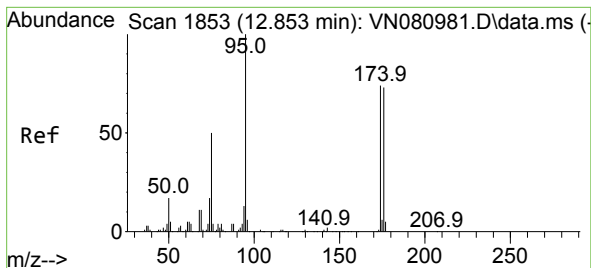
Ion Ratio Lower Upper

43 100

58 34.5 36.5 54.7#

85 9.0 19.5 29.3#

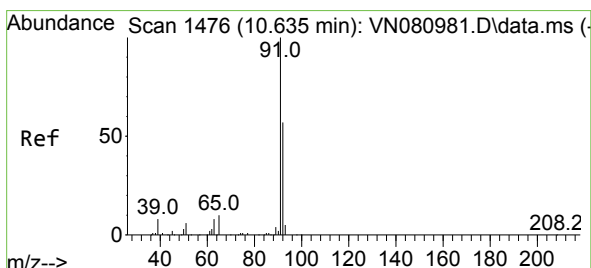
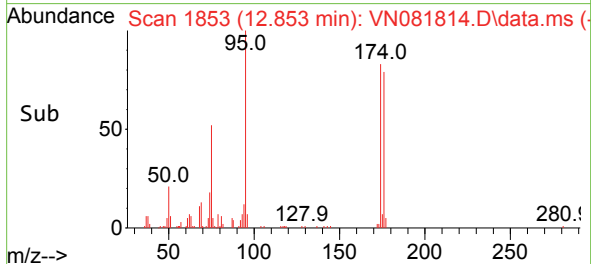
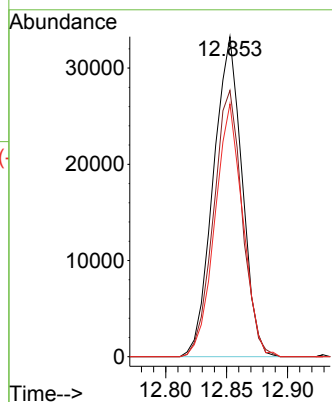
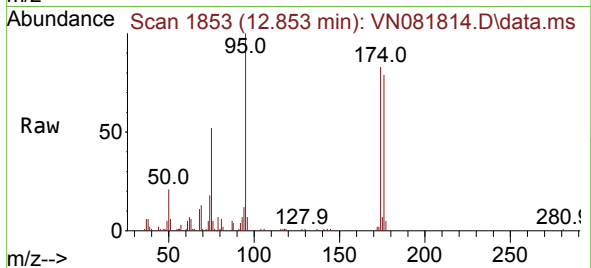




#60
4-Bromofluorobenzene
Concen: 26.195 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

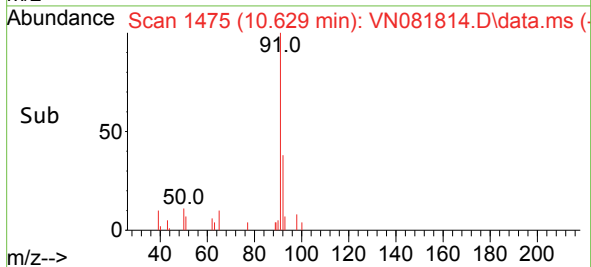
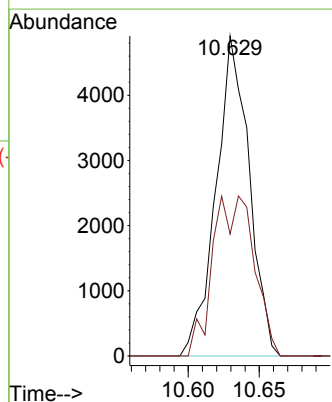
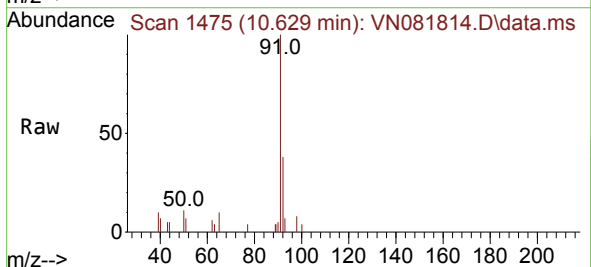
Instrument :
MSVOA_N
ClientSampleId :

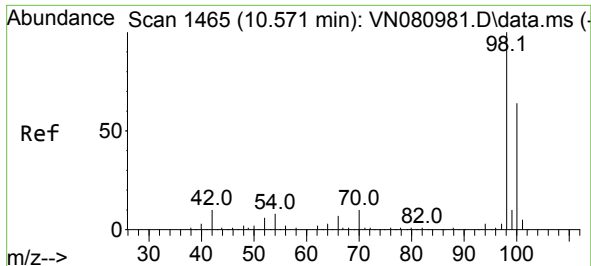
Tgt Ion: 95 Resp: 54681
Ion Ratio Lower Upper
95 100
174 83.2 60.5 90.7
176 76.8 57.8 86.6



#62
Toluene
Concen: 1.030 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

Tgt Ion: 91 Resp: 7954
Ion Ratio Lower Upper
91 100
92 31.9 46.5 69.7#

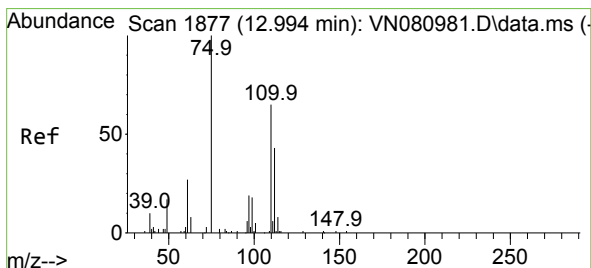
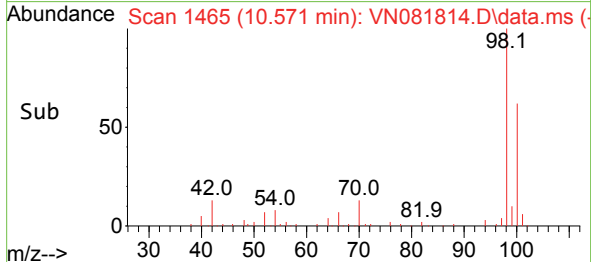
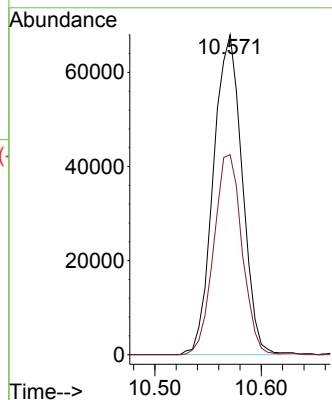
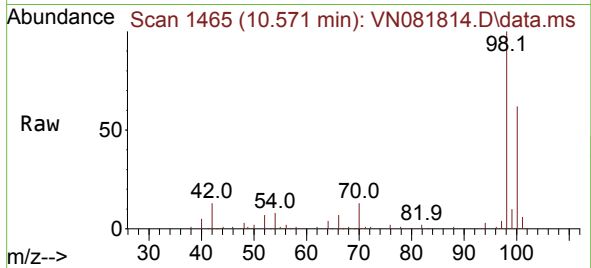




#63
Toluene-d8
Concen: 29.955 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

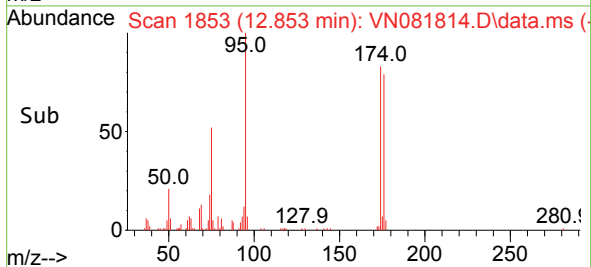
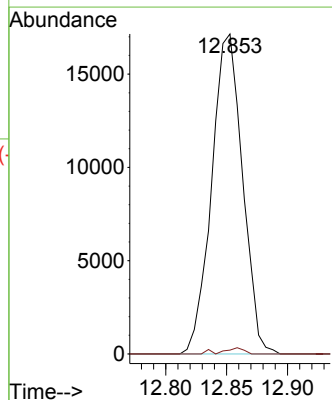
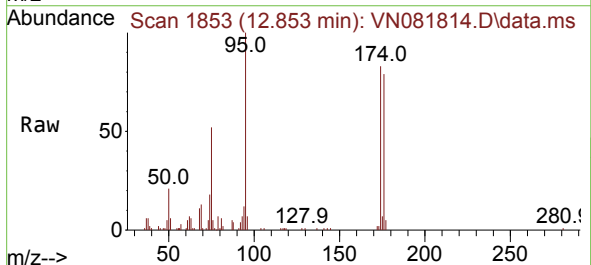
Instrument :
MSVOA_N
ClientSampleId :

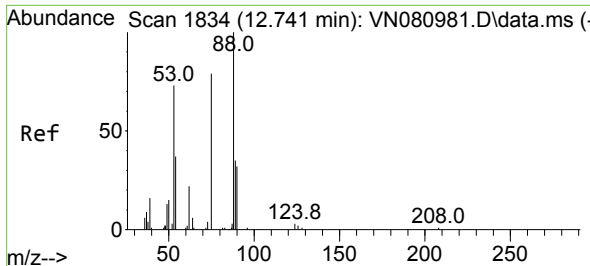
Tgt Ion: 98 Resp: 127575
Ion Ratio Lower Upper
98 100
100 61.5 52.7 79.1



#72
1,2,3-Trichloropropane
Concen: 15.714 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

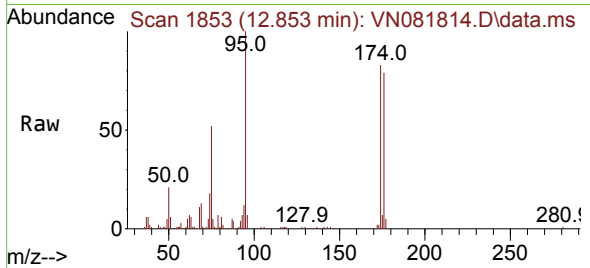
Tgt Ion: 75 Resp: 30277
Ion Ratio Lower Upper
75 100
77 1.0 0.0 367.6



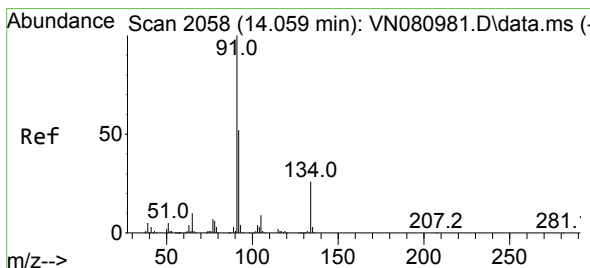
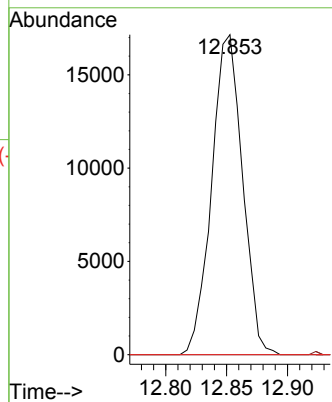
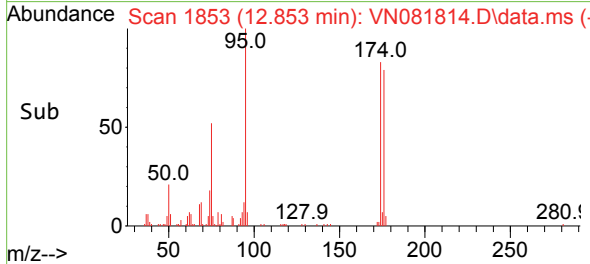


#77
t-1,4-Dichloro-2-butene
Concen: 37.944 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16

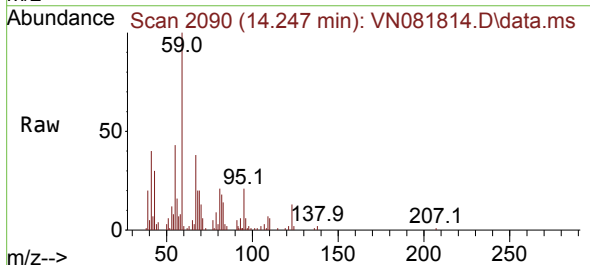
Instrument :
MSVOA_N
ClientSampleId :



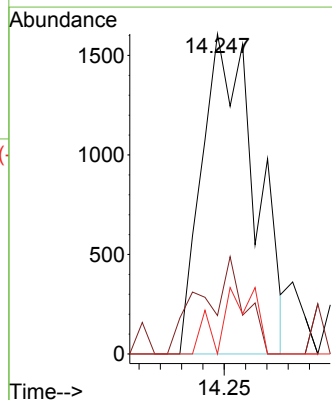
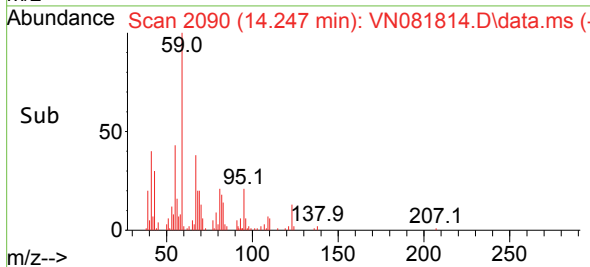
Tgt Ion: 75 Resp: 30277
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#

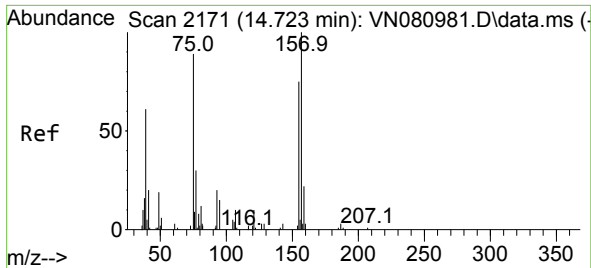


#85
n-Butylbenzene
Concen: 0.476 ug/l
RT: 14.247 min Scan# 2090
Delta R.T. 0.188 min
Lab File: VN081814.D
Acq: 19 Apr 2024 17:16



Tgt Ion: 91 Resp: 2790
Ion Ratio Lower Upper
91 100
92 11.9 0.0 105.0
134 6.8 0.0 51.8





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.703 ug/l

RT: 14.300 min Scan# 20

Delta R.T. -0.424 min

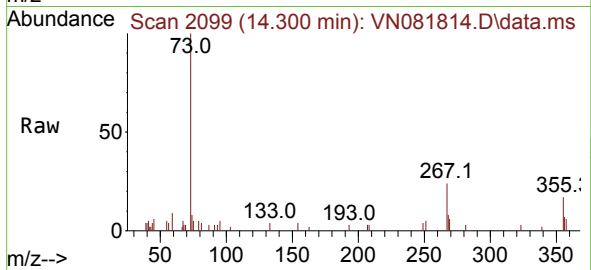
Lab File: VN081814.D

Acq: 19 Apr 2024 17:16

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75 Resp: 319

Ion Ratio Lower Upper

75 100

155 0.0 61.7 92.5#

157 0.0 83.6 125.4#

