

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012224\
 Data File : VN080735.D
 Acq On : 22 Jan 2024 13:16
 Operator : JC\MD
 Sample : P1178-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 23 01:31:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N011124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 12 05:20:11 2024
 Response via : Initial Calibration

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

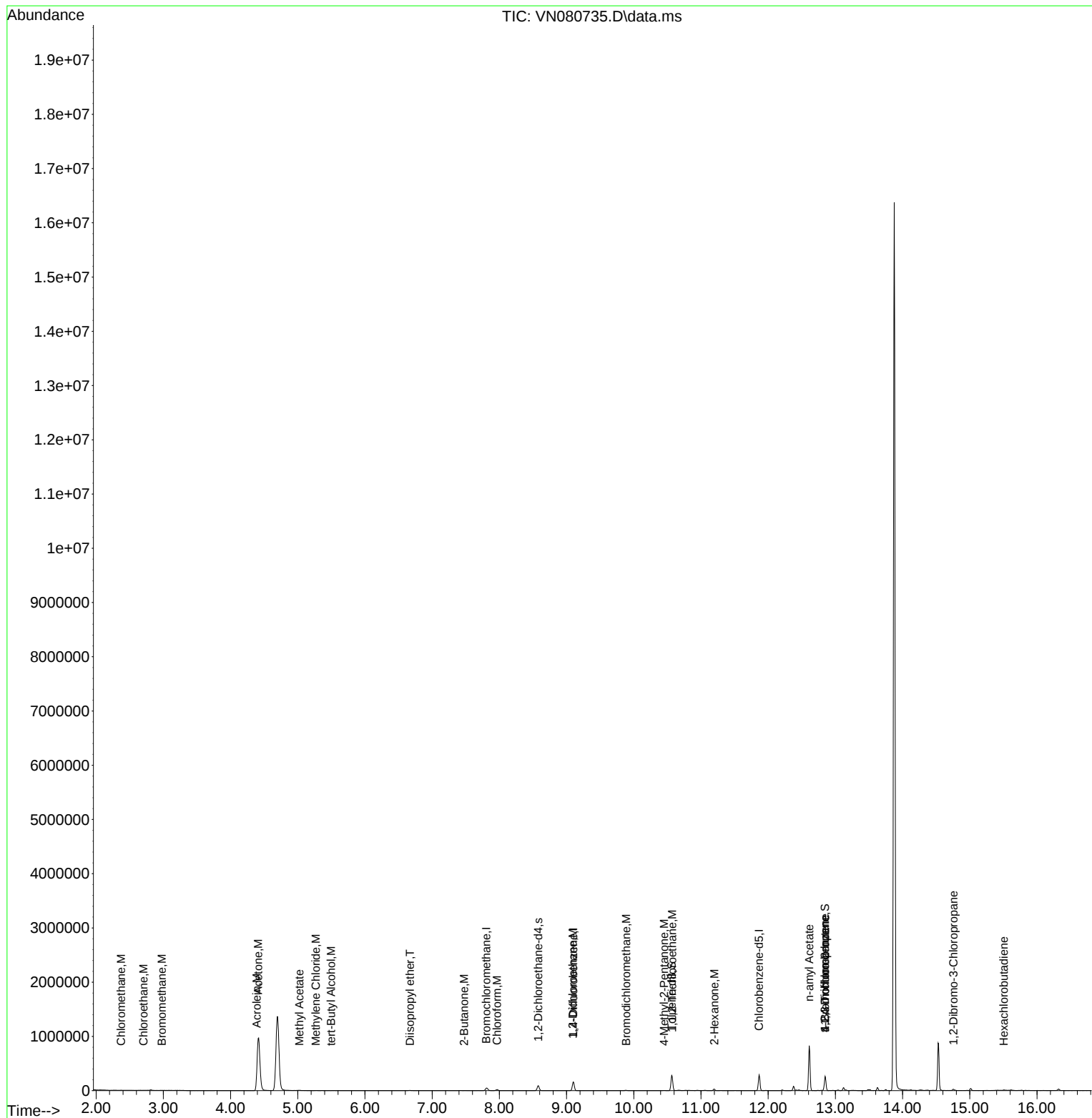
Internal Standards						
1) Bromochloromethane	7.806	128	6797	30.000	ug/l	#-0.01
28) 1,4-Difluorobenzene	9.100	114	130939	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	143852	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	67588	61.576	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	205.267%#
60) 4-Bromofluorobenzene	12.847	95	86051	27.041	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	90.133%
63) Toluene-d8	10.565	98	184559	29.234	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.433%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1718	1.092	ug/l #	81
5) Bromomethane	2.977	94	202	0.460	ug/l #	61
6) Chloroethane	2.706	64	330	0.510	ug/l	96
12) Methyl Acetate	5.024	43	6391	4.880	ug/l #	79
13) Acrolein	4.389	56	171	0.982	ug/l #	1
15) Acetone	4.412	58	587074	4385.280	ug/l	83
18) Methylene Chloride	5.271	84	271	0.211	ug/l #	1
20) Diisopropyl ether	6.671	45	3608	0.793	ug/l #	63
23) tert-Butyl Alcohol	5.494	59	300	1.474	ug/l #	100
25) Chloroform	7.965	83	16926	7.362	ug/l	93
30) 2-Butanone	7.477	43	952	0.541	ug/l #	52
36) 1,2-Dichloroethane	9.094	62	3506	0.808	ug/l #	72
41) Bromodichloromethane	9.888	83	1101	0.266	ug/l #	75
47) n-amyl Acetate	12.612	43	171058	27.002	ug/l	94
50) 1,1,2-Trichloroethane	10.570	97	5332	2.051	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	1254	0.331	ug/l #	65
59) 2-Hexanone	11.200	43	20484	7.250	ug/l #	88
72) 1,2,3-Trichloropropane	12.847	75	49353	14.965	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	49353	36.503	ug/l #	12
88) 1,2-Dibromo-3-Chloropr...	14.758	75	198	0.273	ug/l #	4
90) Hexachlorobutadiene	15.505	225	199	0.224	ug/l #	19

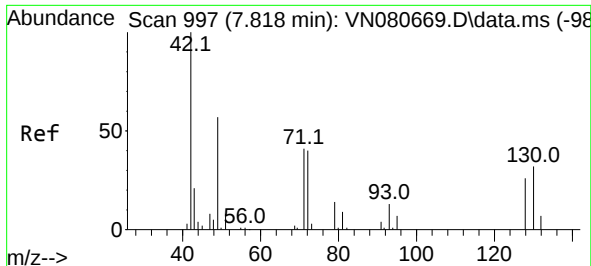
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
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Quant Time: Jan 23 01:31:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N011124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jan 12 05:20:11 2024
Response via : Initial Calibration

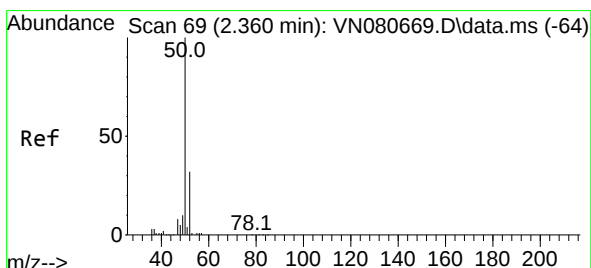
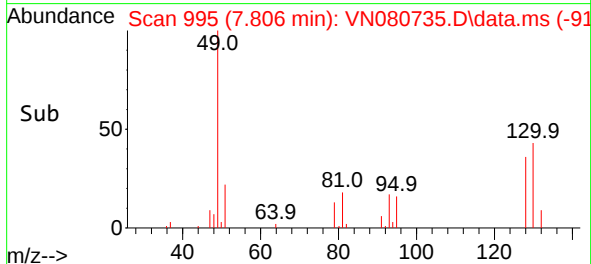
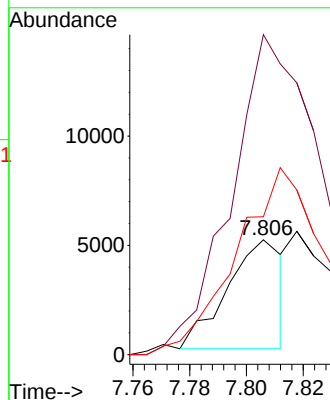
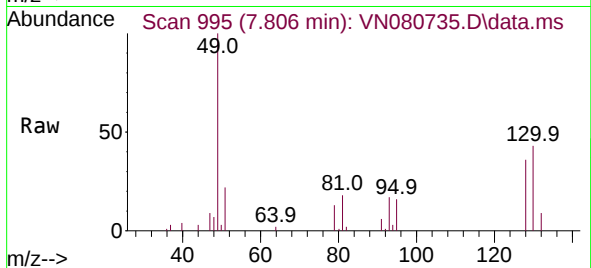




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 91
Delta R.T. -0.012 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

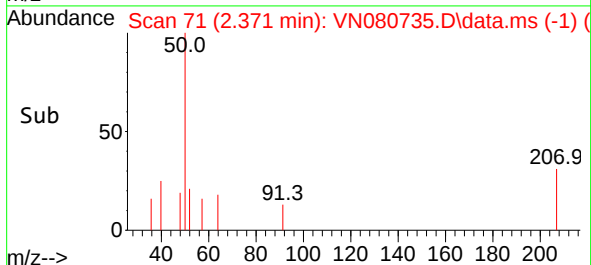
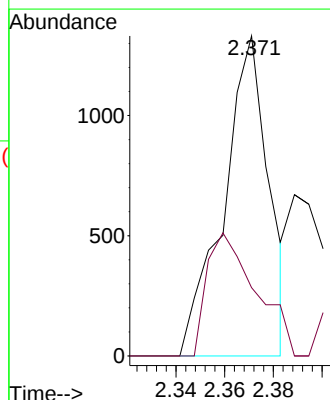
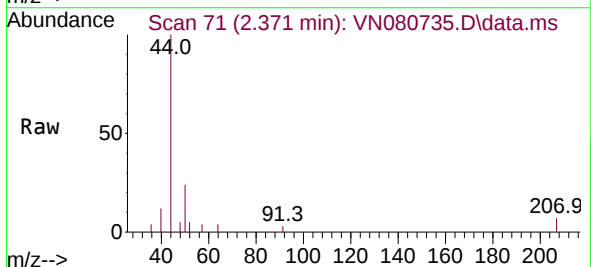
Instrument :
MSVOA_N
ClientSampleId :

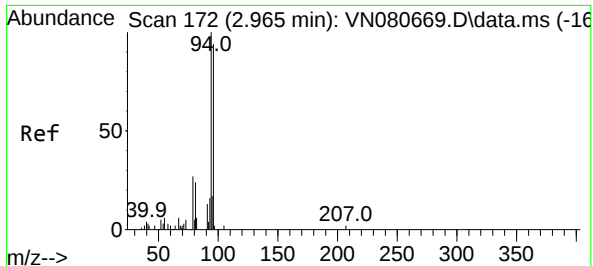
Tgt Ion:128 Resp: 6797
Ion Ratio Lower Upper
128 100
49 491.7 0.0 403.7#
130 282.5 0.0 323.3



#3
Chloromethane
Concen: 1.092 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.011 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

Tgt Ion: 50 Resp: 1718
Ion Ratio Lower Upper
50 100
52 21.3 25.4 38.0#

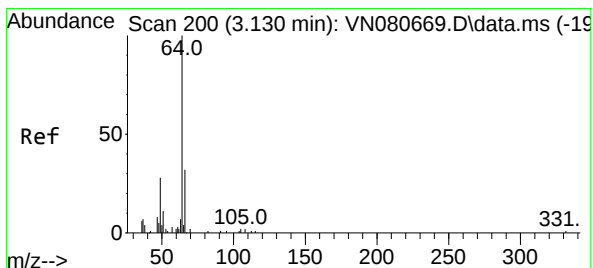
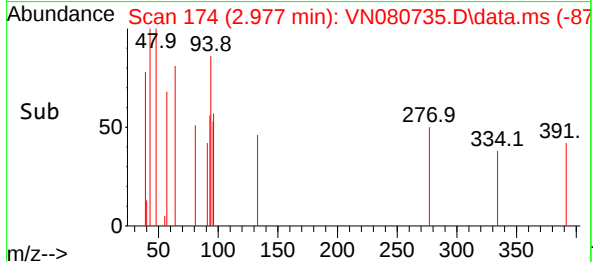
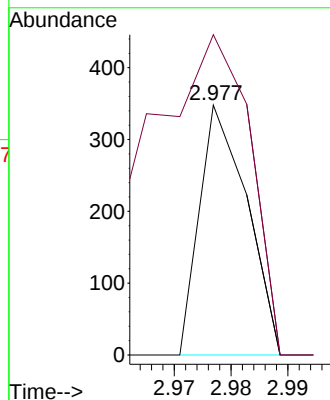
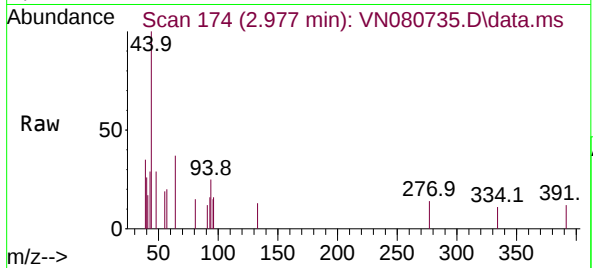




#5
Bromomethane
Concen: 0.460 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

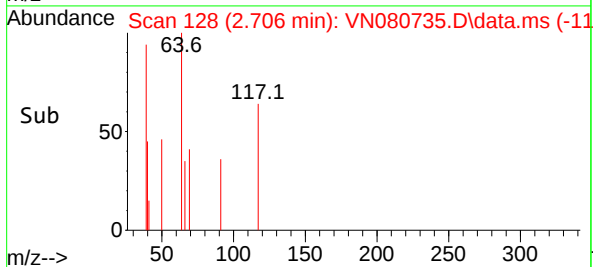
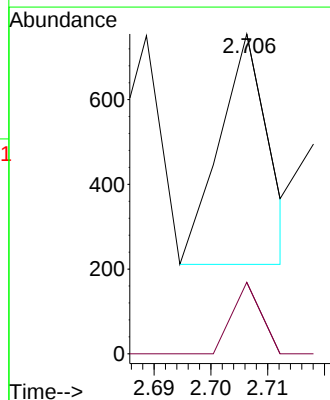
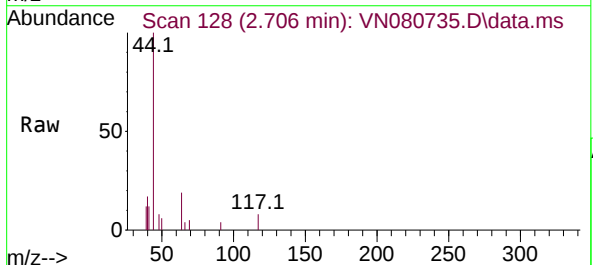
Instrument :
MSVOA_N
ClientSampleId :

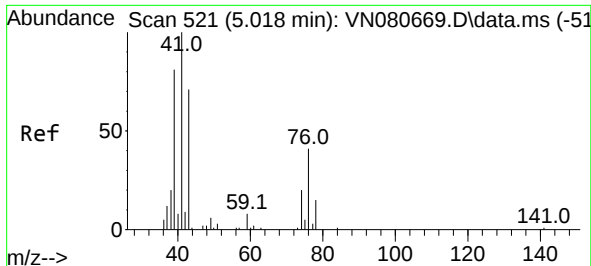
Tgt Ion: 94 Resp: 202
Ion Ratio Lower Upper
94 100
96 128.2 72.8 109.2#



#6
Chloroethane
Concen: 0.510 ug/l
RT: 2.706 min Scan# 128
Delta R.T. -0.424 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

Tgt Ion: 64 Resp: 330
Ion Ratio Lower Upper
64 100
66 31.1 26.7 40.1

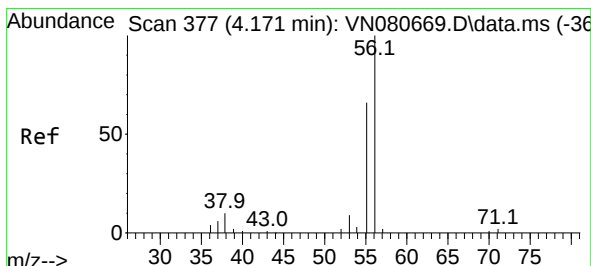
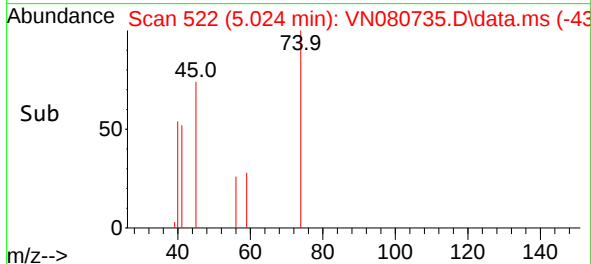
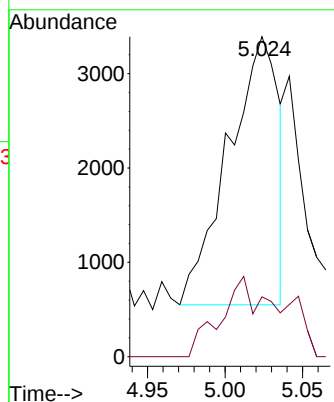
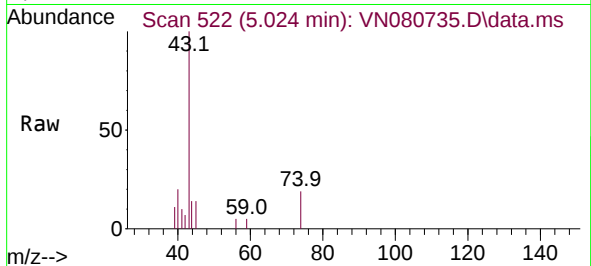




#12
Methyl Acetate
Concen: 4.880 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

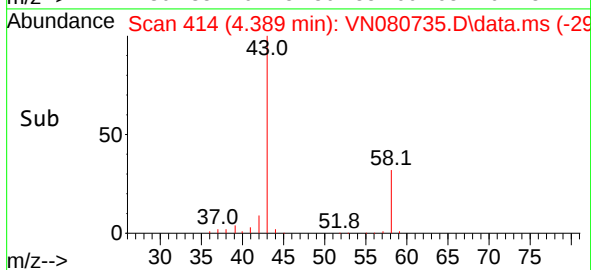
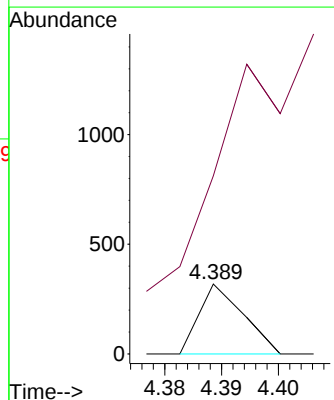
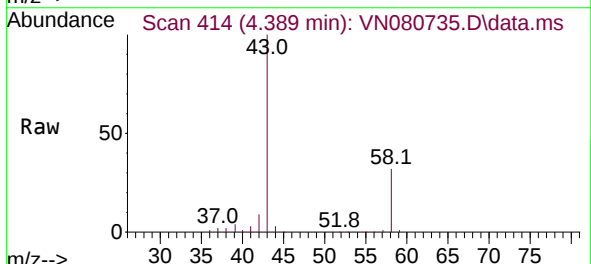
Instrument :
MSVOA_N
ClientSampleId :

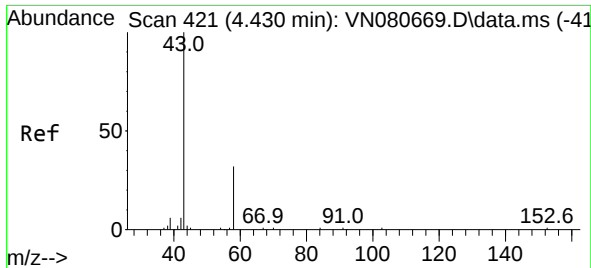
Tgt Ion: 43 Resp: 6391
Ion Ratio Lower Upper
43 100
74 22.6 27.7 41.5#



#13
Acrolein
Concen: 0.982 ug/l
RT: 4.389 min Scan# 414
Delta R.T. 0.218 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

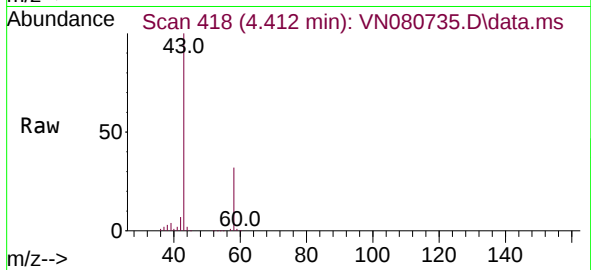
Tgt Ion: 56 Resp: 171
Ion Ratio Lower Upper
56 100
55 807.0 55.5 83.3#



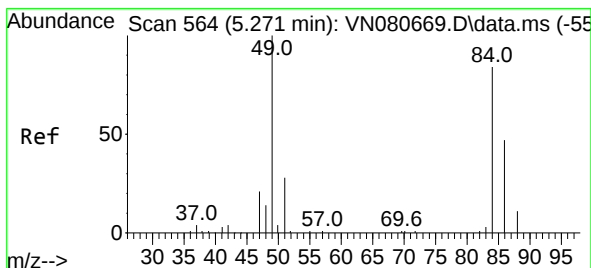
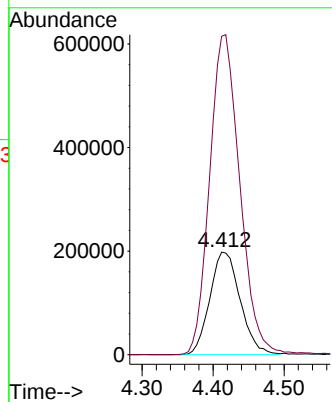
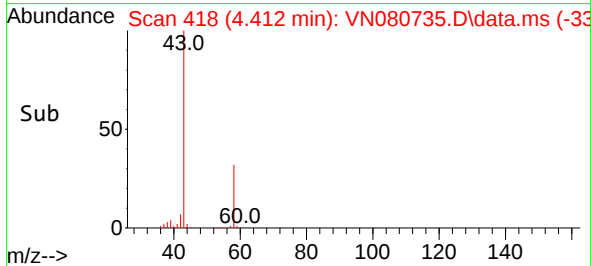


#15
Acetone
Concen: 4385.280 ug/l
RT: 4.412 min Scan# 41
Delta R.T. -0.018 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

Instrument :
MSVOA_N
ClientSampleId :

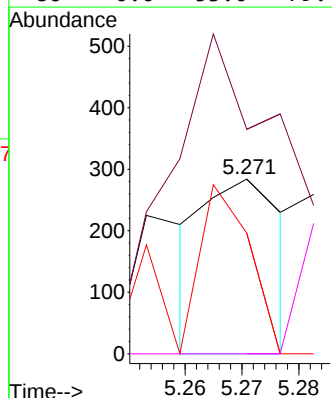
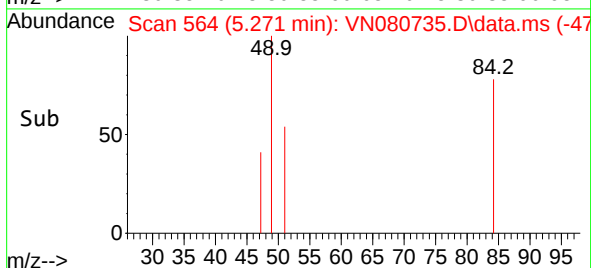
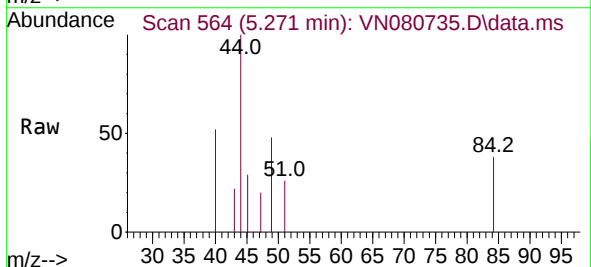


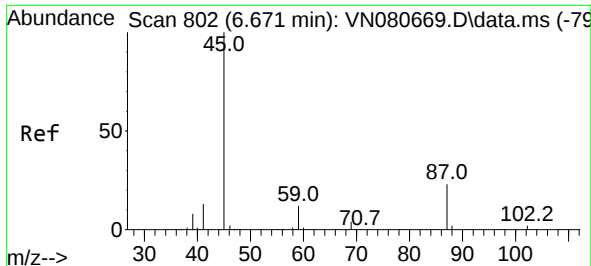
Tgt Ion: 58 Resp: 587074
Ion Ratio Lower Upper
58 100
43 310.2 223.1 334.7



#18
Methylene Chloride
Concen: 0.211 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

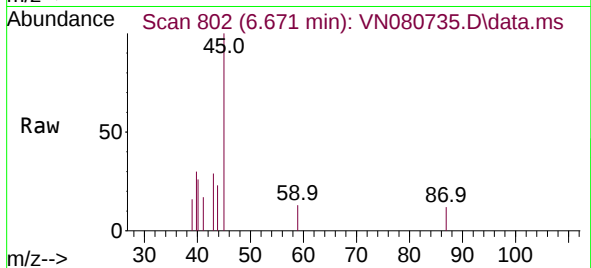
Tgt Ion: 84 Resp: 271
Ion Ratio Lower Upper
84 100
49 64.9 86.0 129.0#
51 264.9 30.0 45.0#
86 0.0 53.0 79.4#



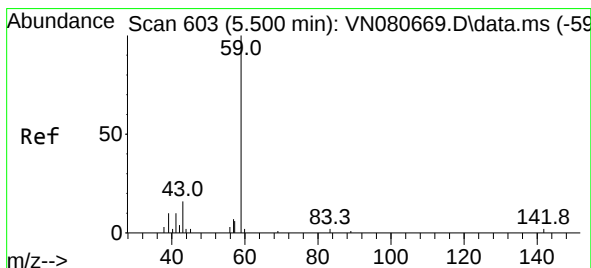
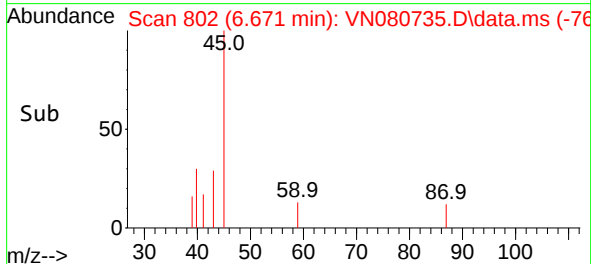
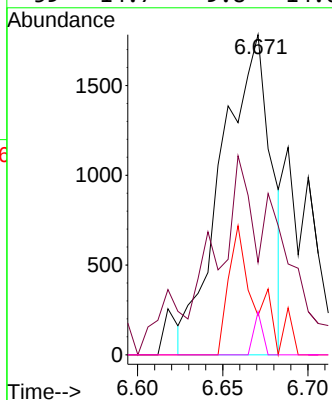


#20
Diisopropyl ether
Concen: 0.793 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

Instrument :
MSVOA_N
ClientSampleId :

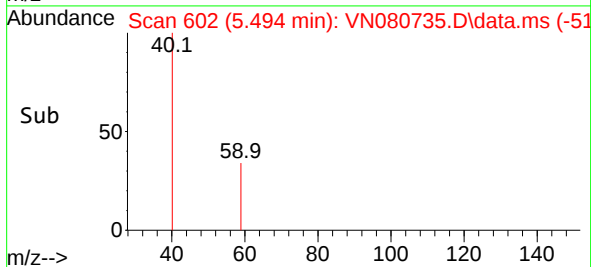
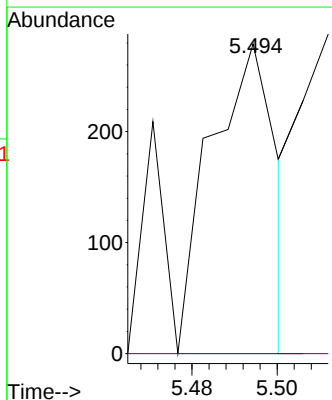
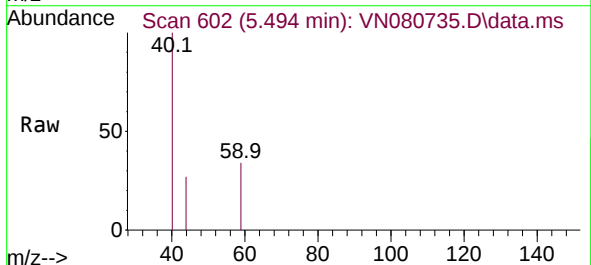


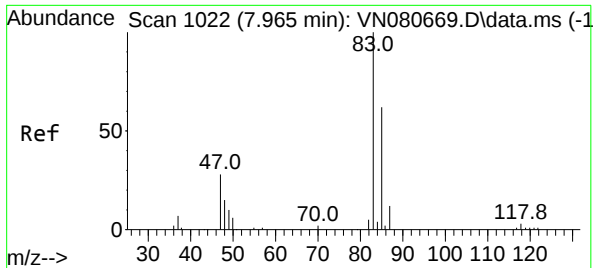
Tgt Ion:	45	Resp:	3608
Ion	Ratio	Lower	Upper
45	100		
43	16.8	40.4	60.6#
87	13.5	23.8	35.8#
59	14.7	9.8	14.6#



#23
tert-Butyl Alcohol
Concen: 1.474 ug/l
RT: 5.494 min Scan# 602
Delta R.T. -0.006 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

Tgt Ion:	59	Resp:	300
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

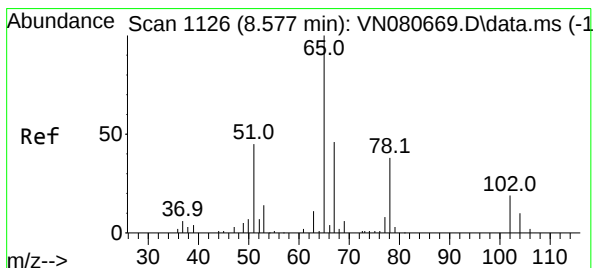
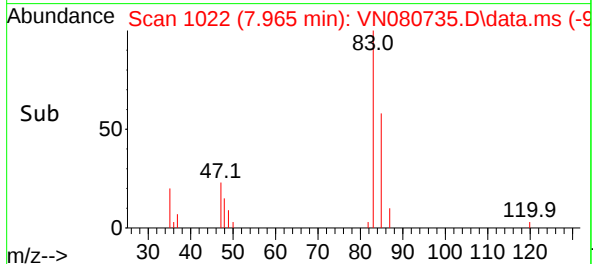
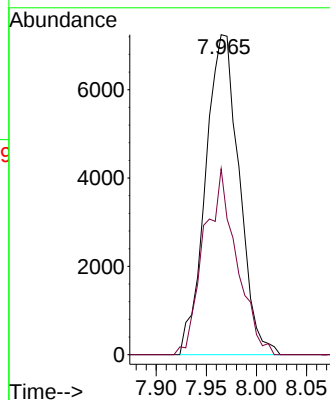
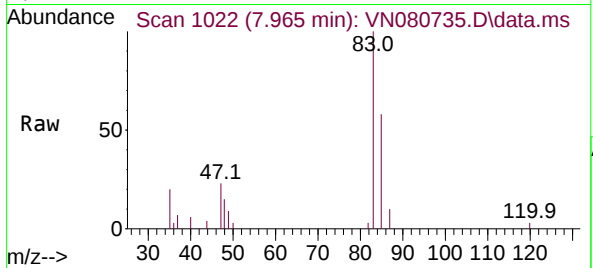




#25
Chloroform
Concen: 7.362 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

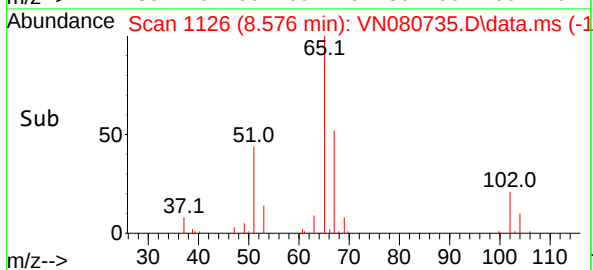
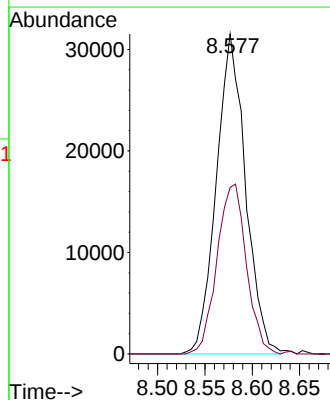
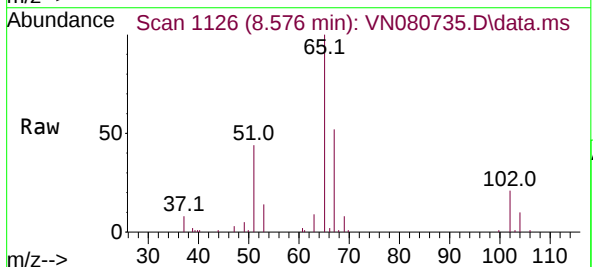
Instrument :
MSVOA_N
ClientSampleId :

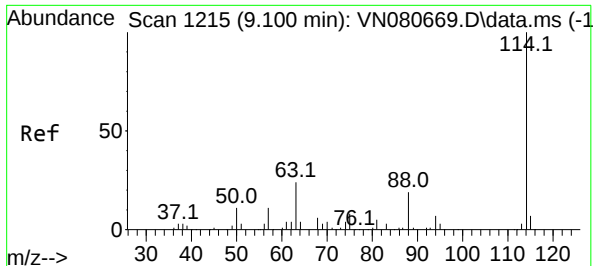
Tgt Ion: 83 Resp: 16926
Ion Ratio Lower Upper
83 100
85 58.1 50.9 76.3



#27
1,2-Dichloroethane-d4
Concen: 61.576 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.001 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

Tgt Ion: 65 Resp: 67588
Ion Ratio Lower Upper
65 100
67 53.4 43.2 64.8

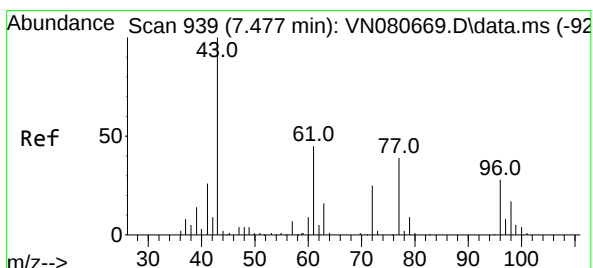
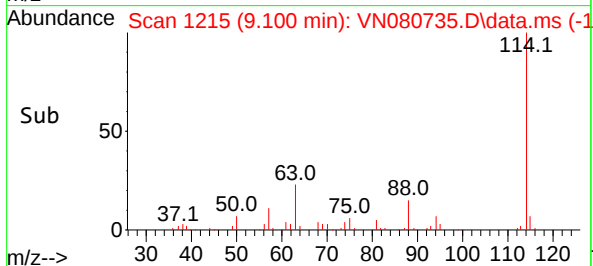
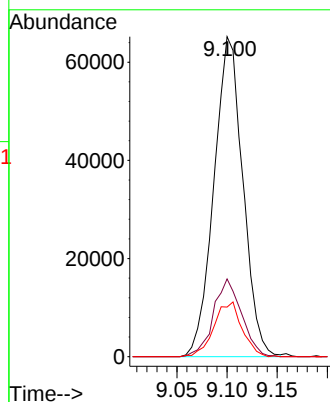
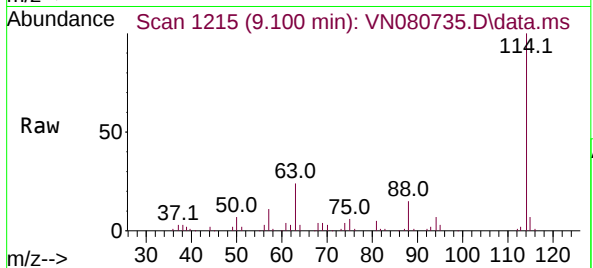




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

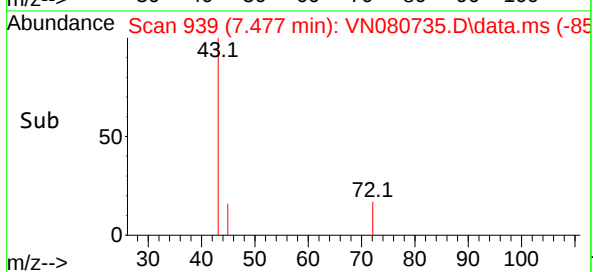
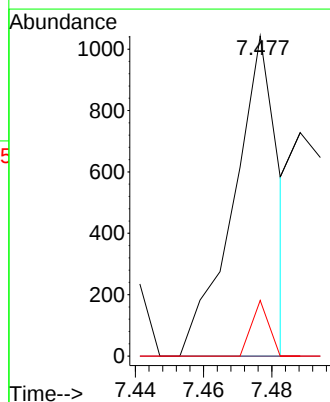
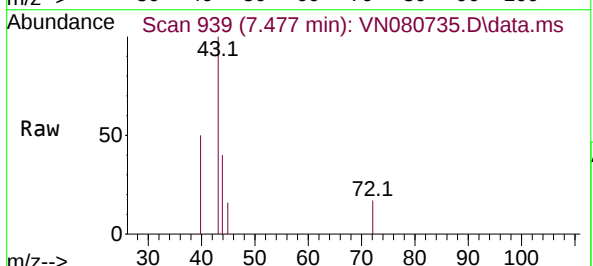
Instrument :
MSVOA_N
ClientSampleId :

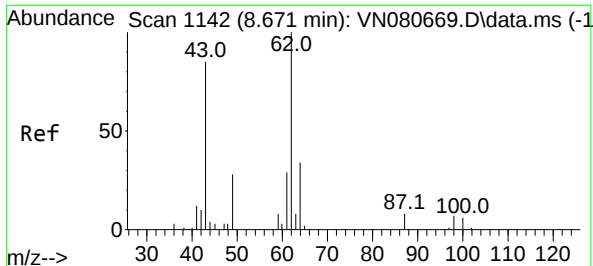
Tgt Ion:114 Resp: 130939
Ion Ratio Lower Upper
114 100
63 23.6 15.9 23.9
88 16.6 12.7 19.1



#30
2-Butanone
Concen: 0.541 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.000 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

Tgt Ion: 43 Resp: 952
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: 0.808 ug/l

RT: 9.094 min Scan# 1142

Delta R.T. 0.423 min

Lab File: VN080735.D

Acq: 22 Jan 2024 13:16

Instrument :

MSVOA_N

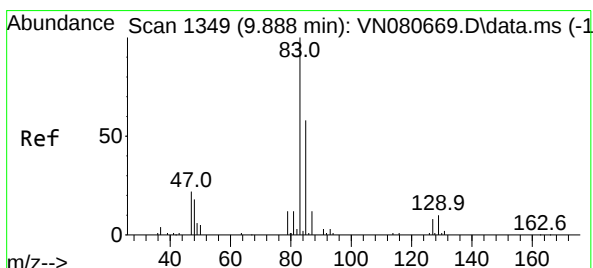
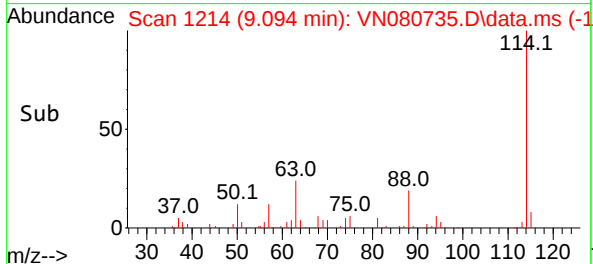
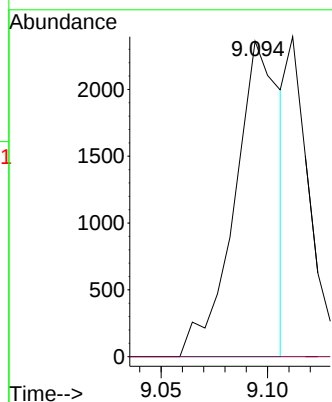
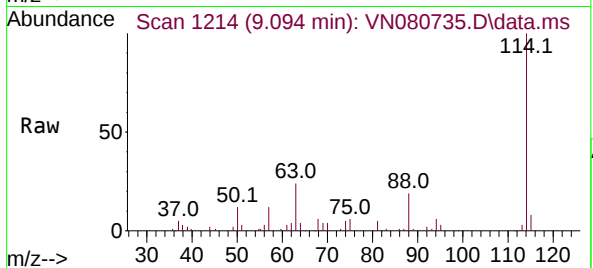
ClientSampleId :

Tgt Ion: 62 Resp: 3506

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#41

Bromodichloromethane

Concen: 0.266 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN080735.D

Acq: 22 Jan 2024 13:16

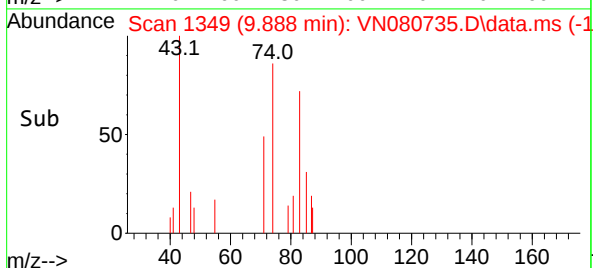
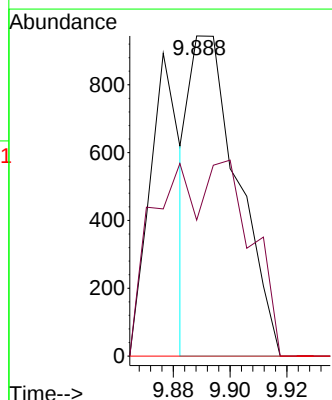
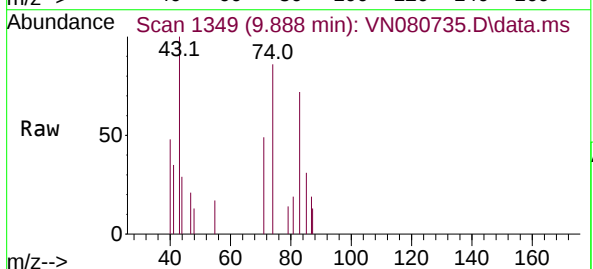
Tgt Ion: 83 Resp: 1101

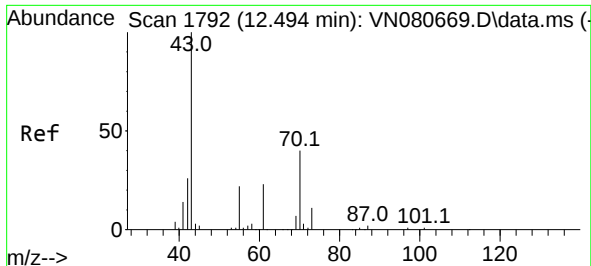
Ion Ratio Lower Upper

83 100

85 42.5 49.4 74.2#

127 0.0 7.3 10.9#

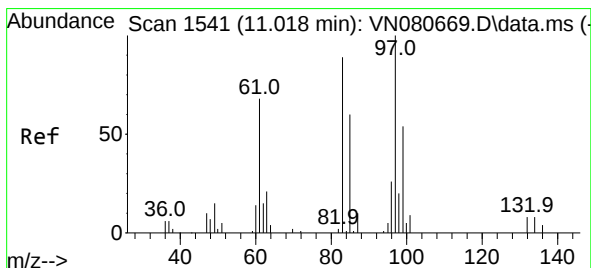
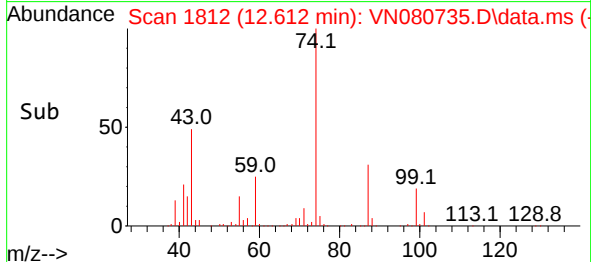
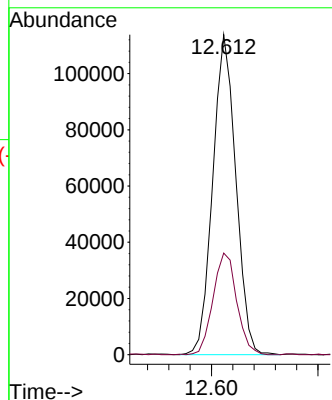
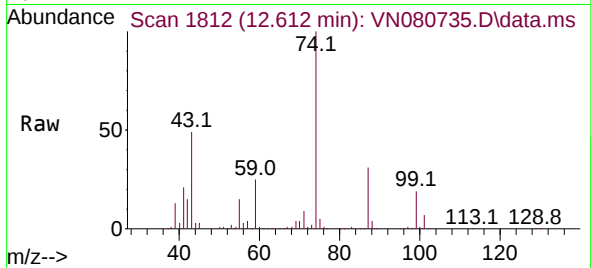




#47
n-amy1 Acetate
Concen: 27.002 ug/l
RT: 12.612 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

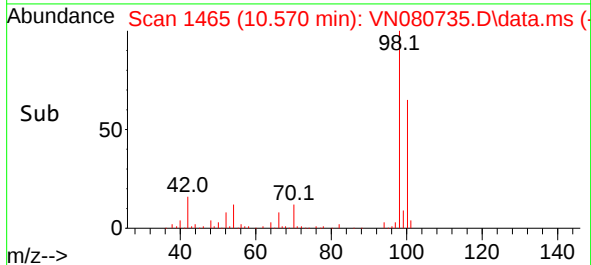
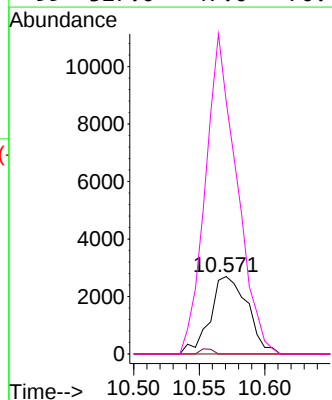
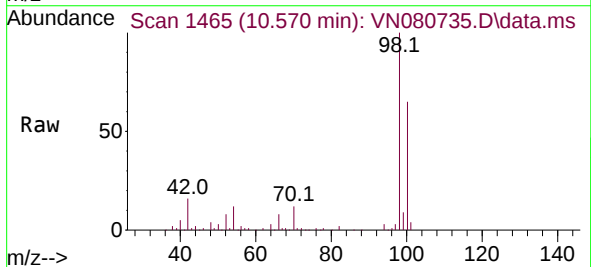
Instrument :
MSVOA_N
ClientSampleId :

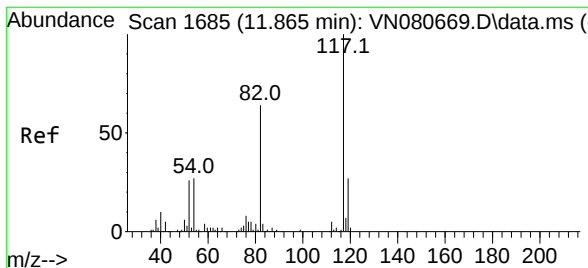
Tgt Ion: 43 Resp: 171058
Ion Ratio Lower Upper
43 100
55 32.5 23.4 35.2



#50
1,1,2-Trichloroethane
Concen: 2.051 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.448 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

Tgt Ion: 97 Resp: 5332
Ion Ratio Lower Upper
97 100
83 0.0 68.1 102.1#
85 0.0 41.8 62.6#
99 327.0 47.0 70.4#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN080735.D

Acq: 22 Jan 2024 13:16

Instrument :

MSVOA_N

ClientSampleId :

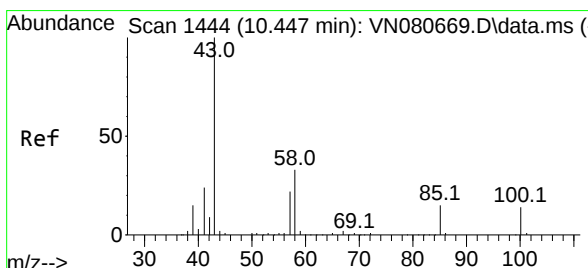
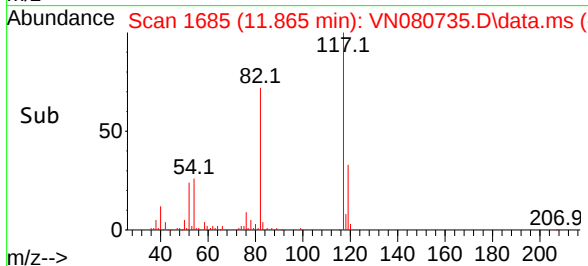
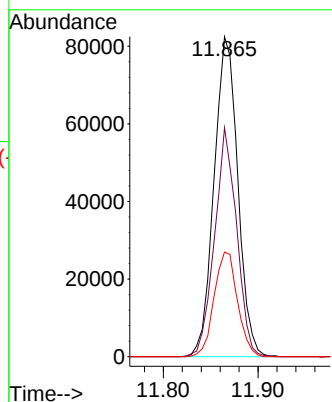
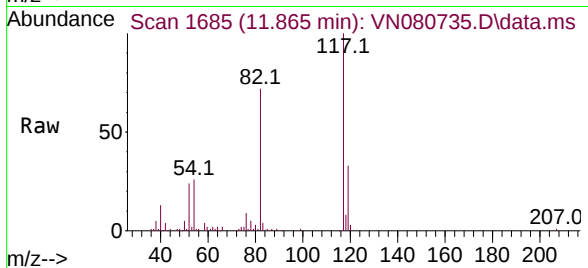
Tgt Ion:117 Resp: 143852

Ion Ratio Lower Upper

117 100

82 66.4 46.6 69.8

119 32.3 25.4 38.2



#58

4-Methyl-2-Pentanone

Concen: 0.331 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.006 min

Lab File: VN080735.D

Acq: 22 Jan 2024 13:16

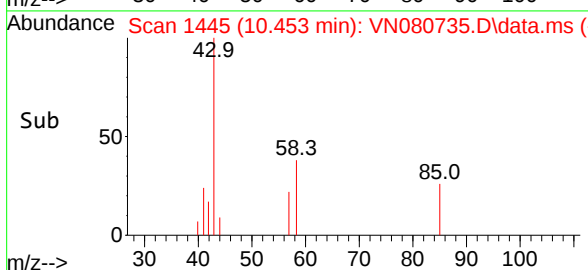
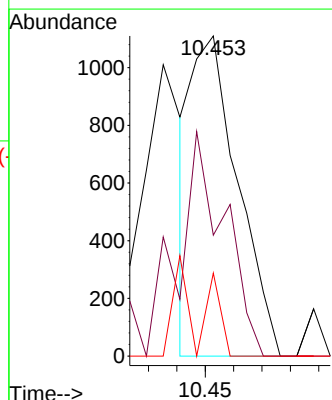
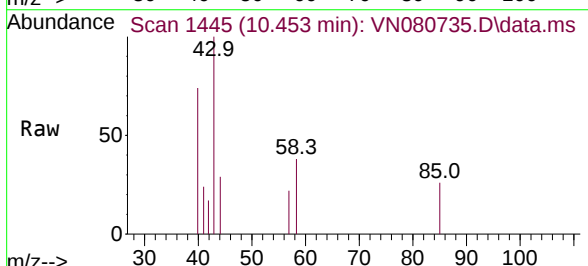
Tgt Ion: 43 Resp: 1254

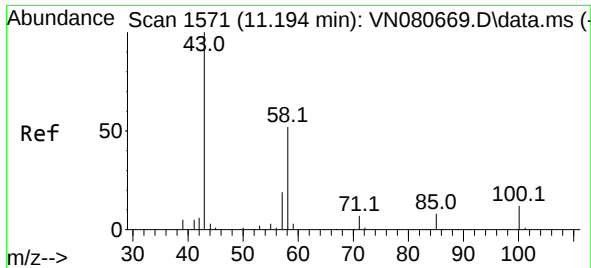
Ion Ratio Lower Upper

43 100

58 69.9 36.5 54.7#

85 8.1 19.5 29.3#

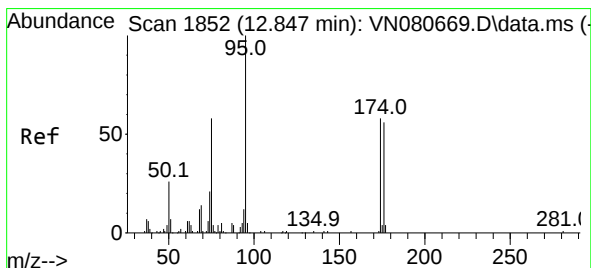
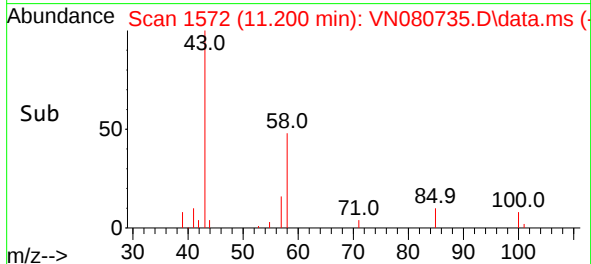
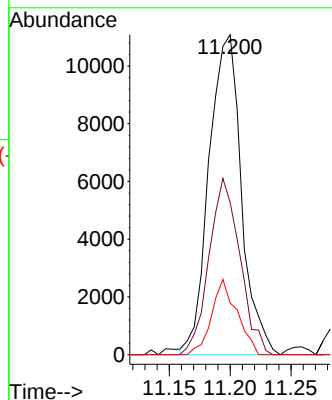
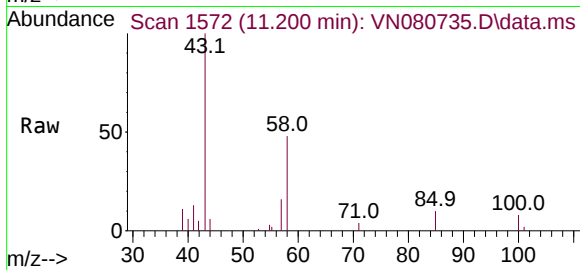




#59
2-Hexanone
Concen: 7.250 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

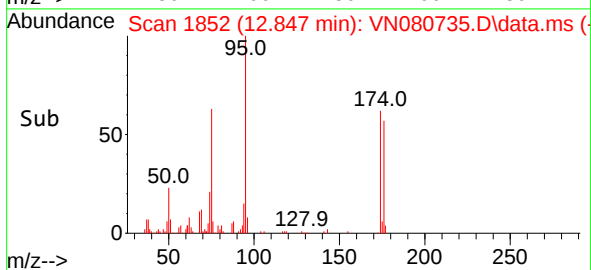
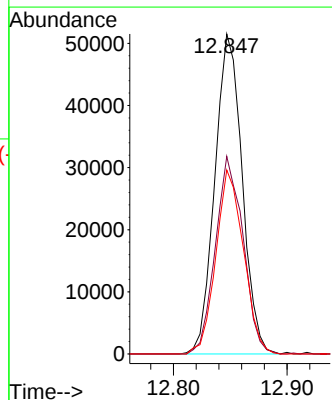
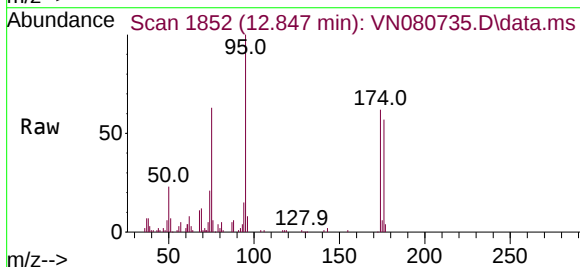
Instrument :
MSVOA_N
ClientSampleId :

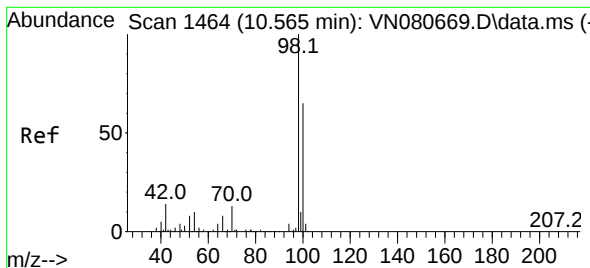
Tgt Ion: 43 Resp: 20484
Ion Ratio Lower Upper
43 100
58 52.5 50.4 75.6
57 18.5 18.6 27.8#



#60
4-Bromofluorobenzene
Concen: 27.041 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

Tgt Ion: 95 Resp: 86051
Ion Ratio Lower Upper
95 100
174 62.5 60.5 90.7
176 58.2 57.8 86.6





#63

Toluene-d8

Concen: 29.234 ug/l

RT: 10.565 min Scan# 14

Delta R.T. -0.000 min

Lab File: VN080735.D

Acq: 22 Jan 2024 13:16

Instrument :

MSVOA_N

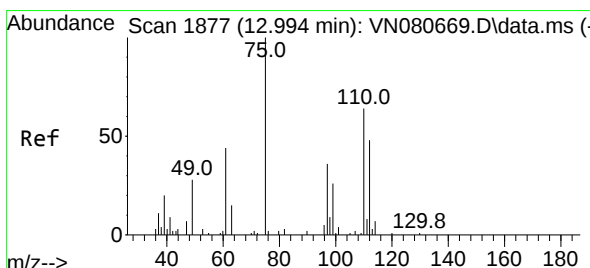
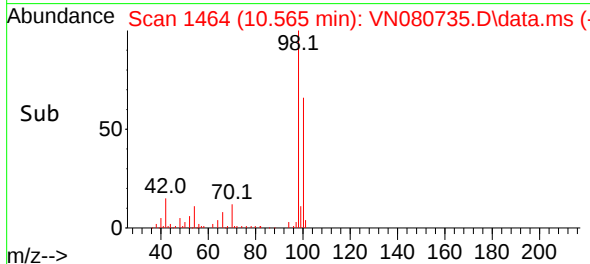
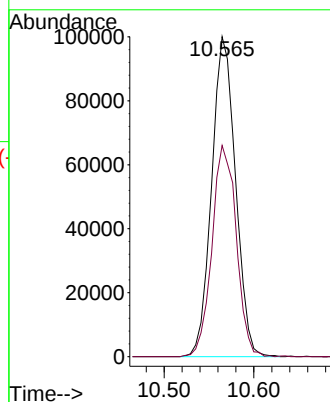
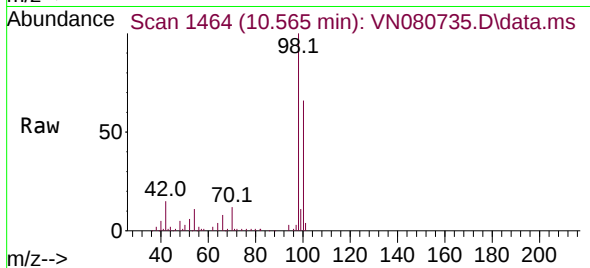
ClientSampleId :

Tgt Ion: 98 Resp: 184559

Ion Ratio Lower Upper

98 100

100 67.1 52.7 79.1



#72

1,2,3-Trichloropropane

Concen: 14.965 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN080735.D

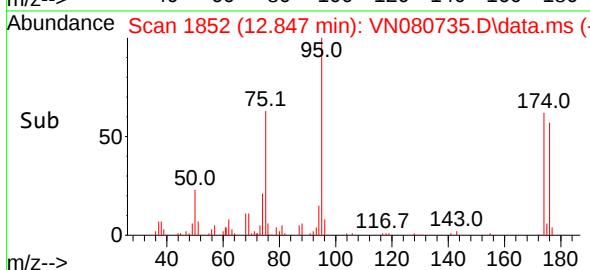
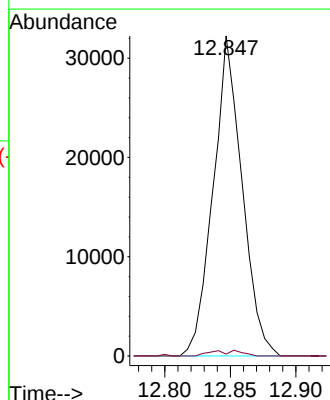
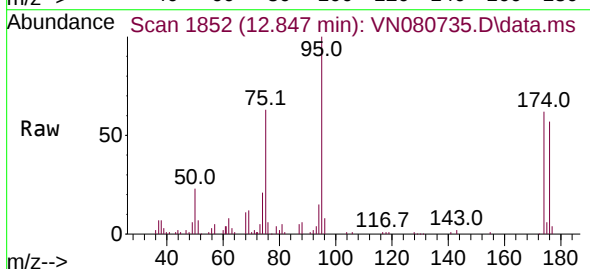
Acq: 22 Jan 2024 13:16

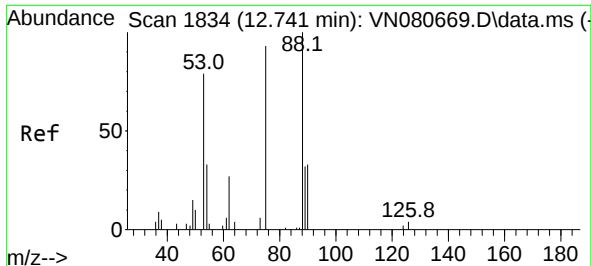
Tgt Ion: 75 Resp: 49353

Ion Ratio Lower Upper

75 100

77 0.8 0.0 367.6

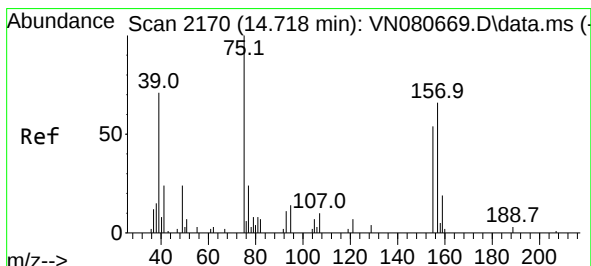
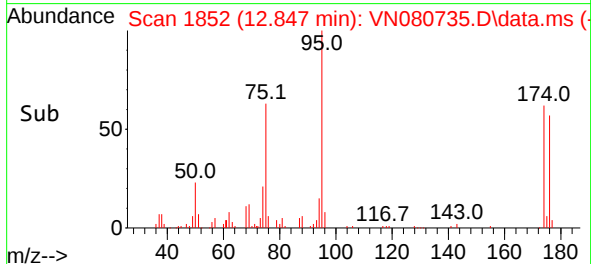
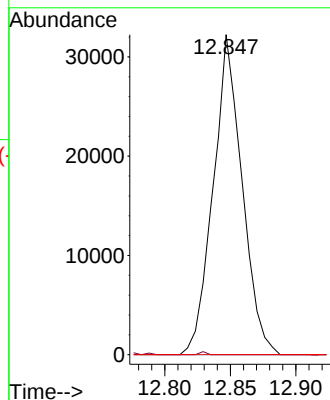
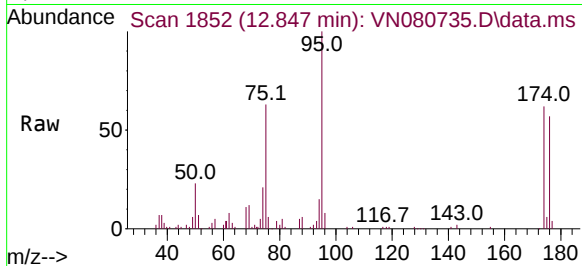




#77
t-1,4-Dichloro-2-butene
Concen: 36.503 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

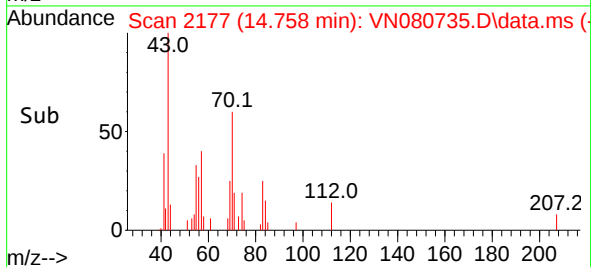
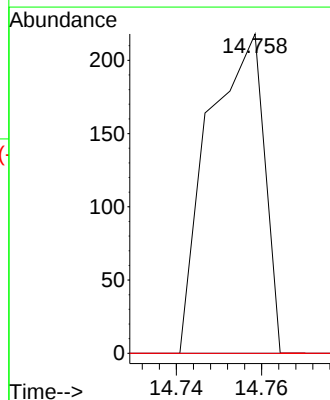
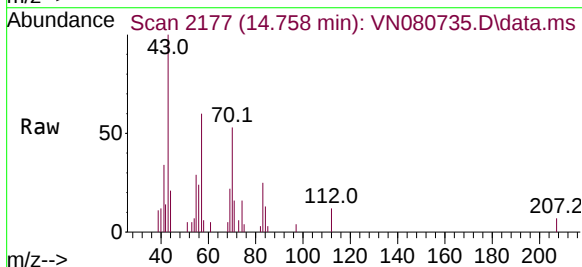
Instrument :
MSVOA_N
ClientSampleId :

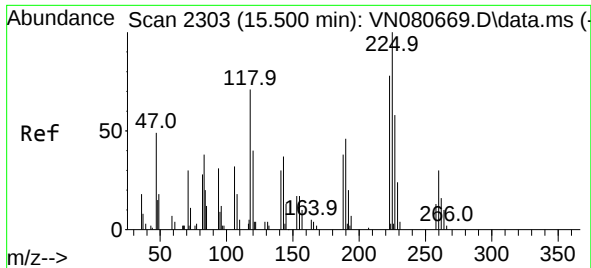
Tgt Ion: 75 Resp: 49353
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#



#88
1,2-Dibromo-3-Chloropropane
Concen: 0.273 ug/l
RT: 14.758 min Scan# 2177
Delta R.T. 0.040 min
Lab File: VN080735.D
Acq: 22 Jan 2024 13:16

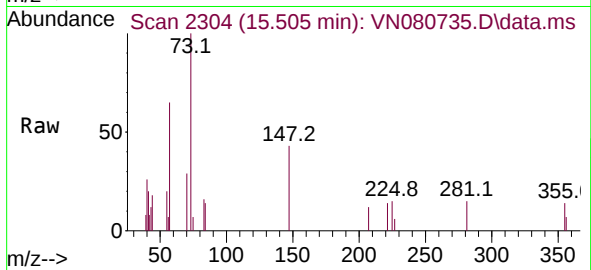
Tgt Ion: 75 Resp: 198
Ion Ratio Lower Upper
75 100
155 0.0 61.7 92.5#
157 0.0 83.6 125.4#





#90
 Hexachlorobutadiene
 Concen: 0.224 ug/l
 RT: 15.505 min Scan# 21
 Delta R.T. 0.005 min
 Lab File: VN080735.D
 Acq: 22 Jan 2024 13:16

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:225 Resp: 199
 Ion Ratio Lower Upper
 225 100
 223 0.0 0.0 126.6
 227 0.0 0.0 126.6

