

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080123\
 Data File : VN078718.D
 Acq On : 01 Aug 2023 15:23
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Aug 02 05:09:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 04:51:47 2023
 Response via : Initial Calibration

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

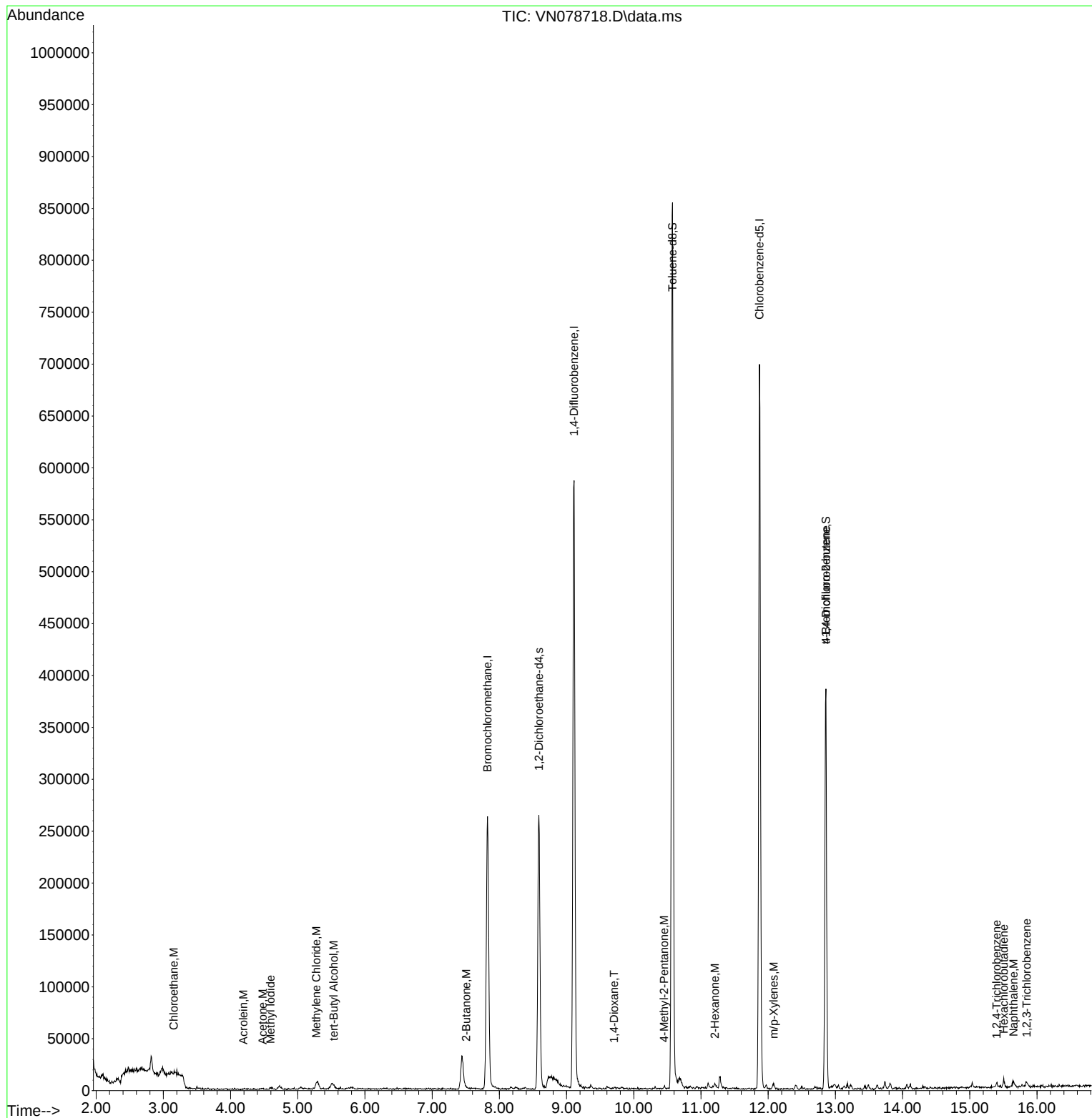
Internal Standards						
1) Bromochloromethane	7.824	128	96687	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	530586	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	433209	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	221659	30.584	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.933%
60) 4-Bromofluorobenzene	12.859	95	134569	20.728	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	69.100%
63) Toluene-d8	10.576	98	630713	29.472	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.233%
Target Compounds						
					Qvalue	
6) Chloroethane	3.153	64	1352	0.203	ug/l	93
11) Methyl Iodide	4.594	142	1536	0.203	ug/l #	85
13) Acrolein	4.189	56	241	0.259	ug/l #	71
15) Acetone	4.477	58	215	0.290	ug/l	100
18) Methylene Chloride	5.277	84	1935	0.299	ug/l #	31
23) tert-Butyl Alcohol	5.536	59	1562	1.494	ug/l #	100
30) 2-Butanone	7.506	43	735	0.238	ug/l #	52
45) 1,4-Dioxane	9.706	88	128	1.243	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	1808	0.279	ug/l #	67
59) 2-Hexanone	11.206	43	3112	0.634	ug/l #	87
67) m/p-Xylenes	12.082	106	2071	0.206	ug/l	91
77) t-1,4-Dichloro-2-butene	12.859	75	69952	29.087	ug/l #	15
89) 1,2,4-Trichlorobenzene	15.400	180	1228	0.419	ug/l #	42
90) Hexachlorobutadiene	15.506	225	1483	0.664	ug/l	79
91) Naphthalene	15.653	128	5535	0.623	ug/l #	74
92) 1,2,3-Trichlorobenzene	15.847	180	865	0.259	ug/l	31

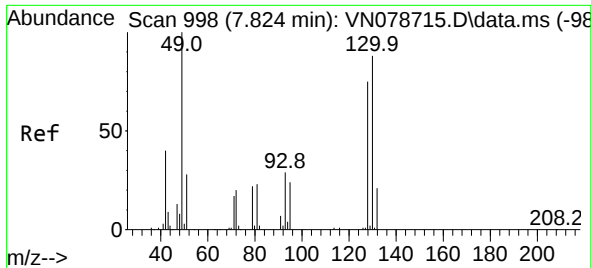
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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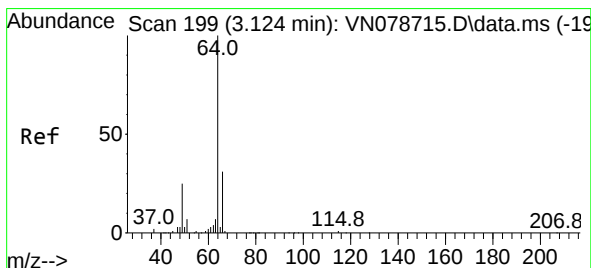
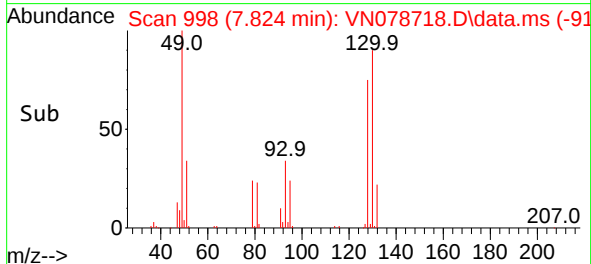
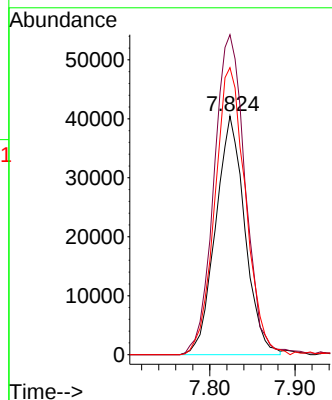
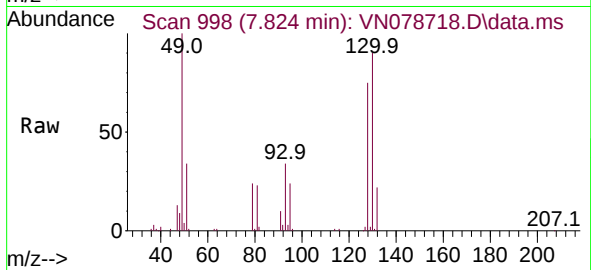




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN078718.D
Acq: 01 Aug 2023 15:23

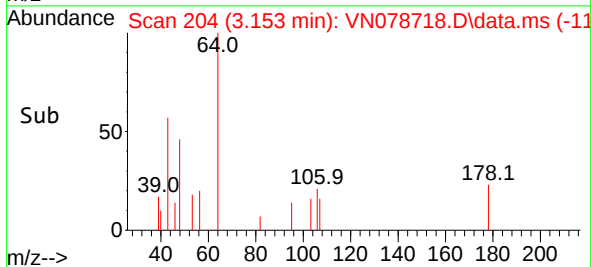
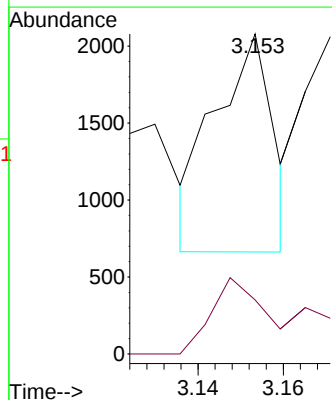
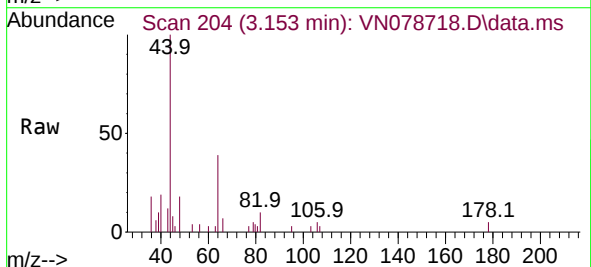
Instrument :
MSVOA_N
ClientSampleId :
IBLK

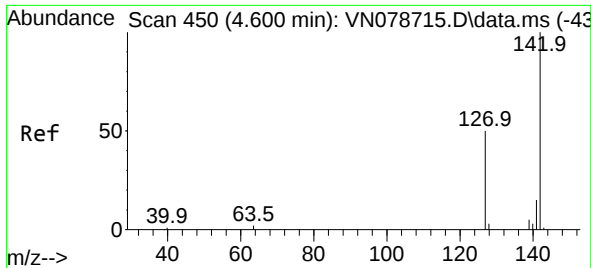
Tgt Ion:128 Resp: 96687
Ion Ratio Lower Upper
128 100
49 142.2 0.0 370.8
130 126.1 0.0 307.0



#6
Chloroethane
Concen: 0.203 ug/l
RT: 3.153 min Scan# 204
Delta R.T. 0.029 min
Lab File: VN078718.D
Acq: 01 Aug 2023 15:23

Tgt Ion: 64 Resp: 1352
Ion Ratio Lower Upper
64 100
66 35.8 25.7 38.5

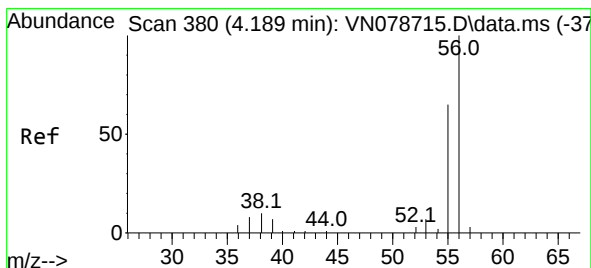
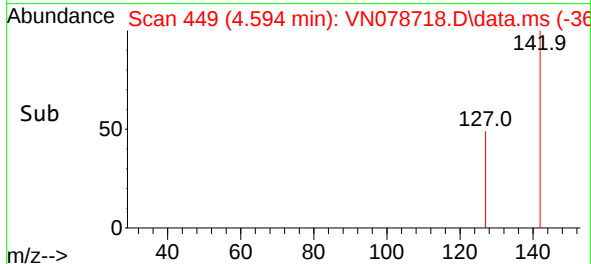
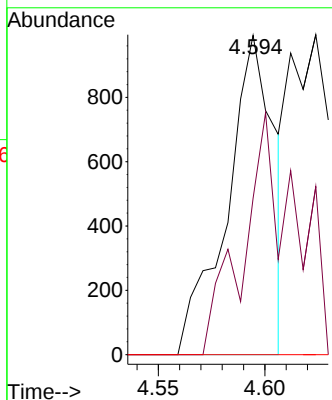
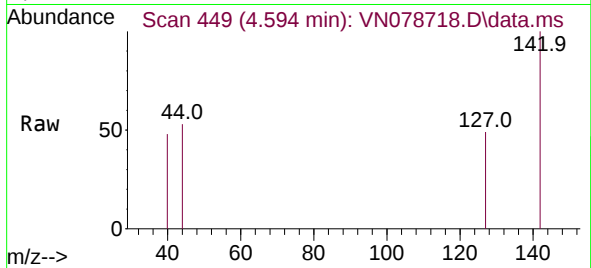




#11
Methyl Iodide
Concen: 0.203 ug/l
RT: 4.594 min Scan# 449
Delta R.T. -0.006 min
Lab File: VN078718.D
Acq: 01 Aug 2023 15:23

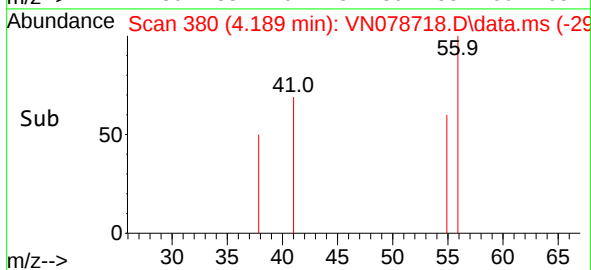
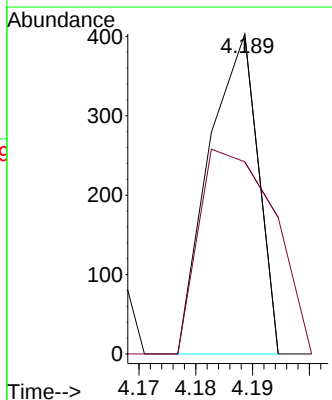
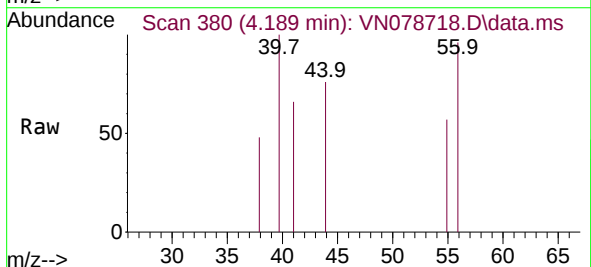
Instrument :
MSVOA_N
ClientSampleId :
IBLK

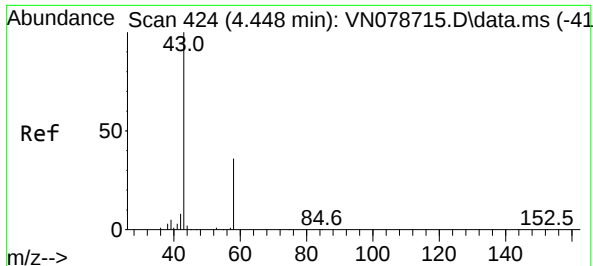
Tgt Ion:142 Resp: 1536
Ion Ratio Lower Upper
142 100
127 52.0 23.2 69.5
141 0.0 7.2 21.7#



#13
Acrolein
Concen: 0.259 ug/l
RT: 4.189 min Scan# 380
Delta R.T. -0.000 min
Lab File: VN078718.D
Acq: 01 Aug 2023 15:23

Tgt Ion: 56 Resp: 241
Ion Ratio Lower Upper
56 100
55 98.3 59.0 88.4#





#15

Acetone

Concen: 0.290 ug/l

RT: 4.477 min Scan# 41

Delta R.T. 0.029 min

Lab File: VN078718.D

Acq: 01 Aug 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

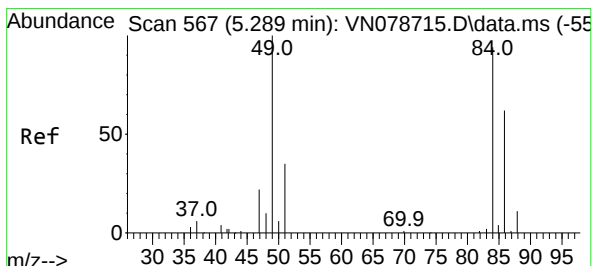
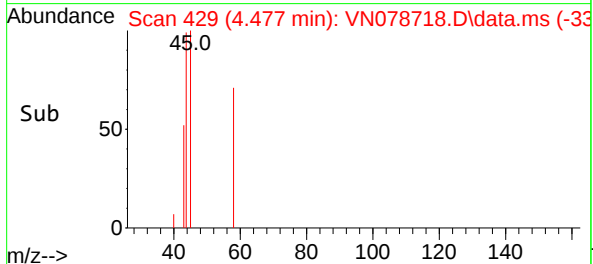
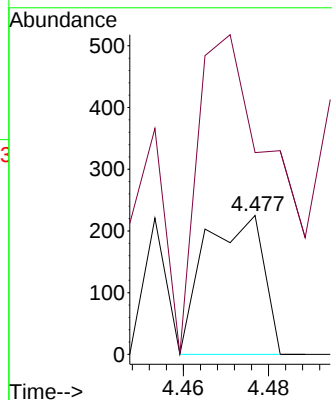
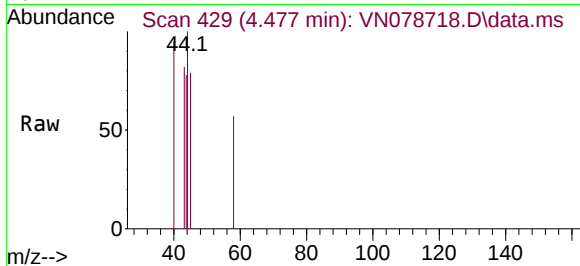
IBLK

Tgt Ion: 58 Resp: 215

Ion Ratio Lower Upper

58 100

43 283.6 227.5 341.3



#18

Methylene Chloride

Concen: 0.299 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.012 min

Lab File: VN078718.D

Acq: 01 Aug 2023 15:23

Tgt Ion: 84 Resp: 1935

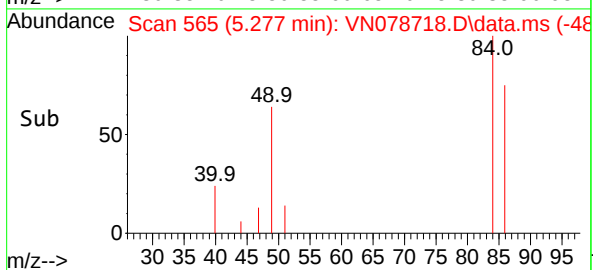
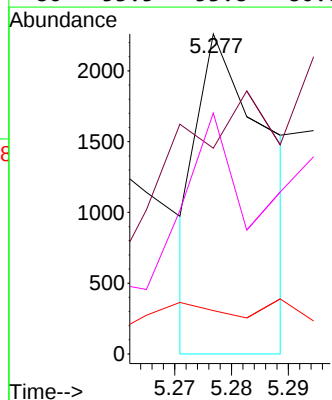
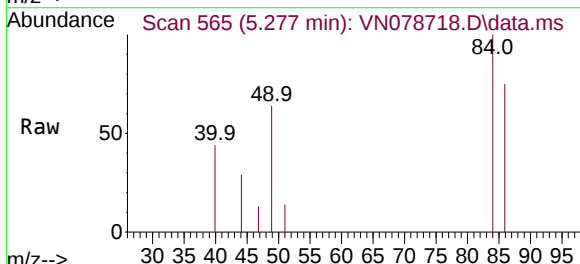
Ion Ratio Lower Upper

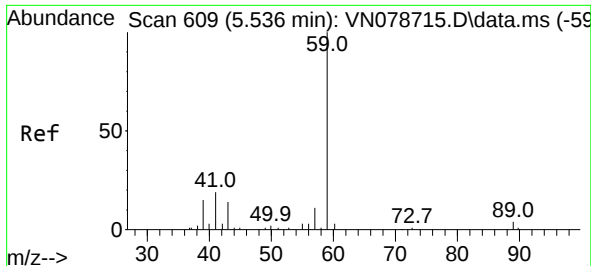
84 100

49 0.0 88.1 132.1#

51 0.0 24.0 36.0#

86 53.5 53.8 80.8#

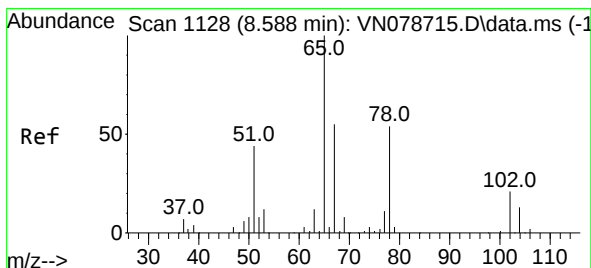
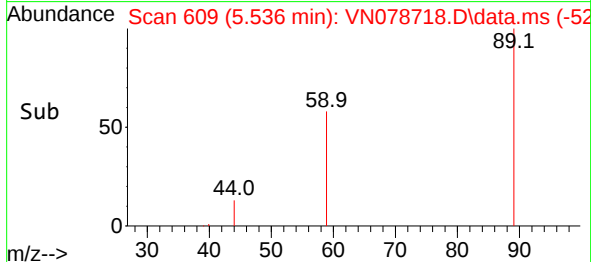
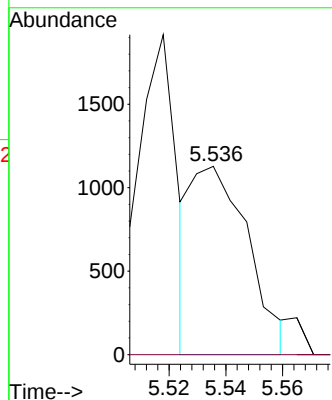
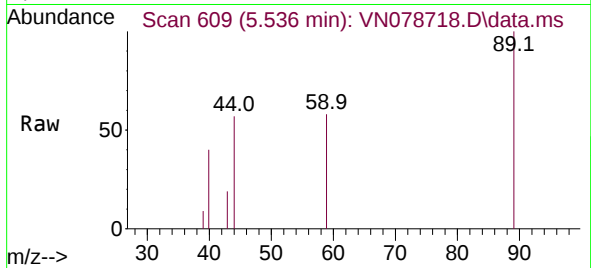




#23
tert-Butyl Alcohol
Concen: 1.494 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.000 min
Lab File: VN078718.D
Acq: 01 Aug 2023 15:23

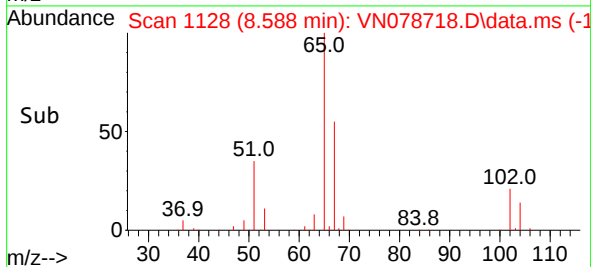
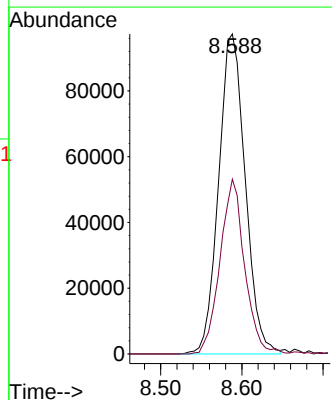
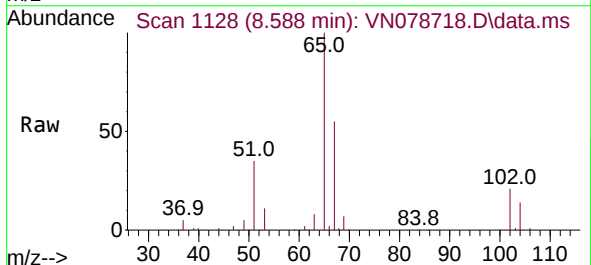
Instrument :
MSVOA_N
ClientSampleId :
IBLK

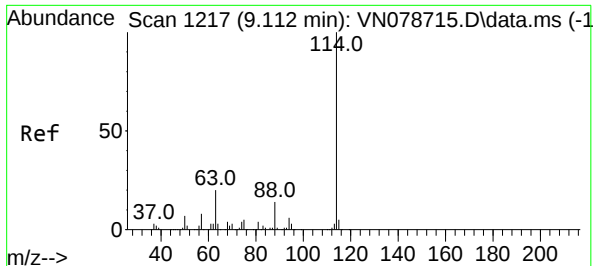
Tgt Ion: 59 Resp: 1562
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#27
1,2-Dichloroethane-d4
Concen: 30.584 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN078718.D
Acq: 01 Aug 2023 15:23

Tgt Ion: 65 Resp: 221659
Ion Ratio Lower Upper
65 100
67 50.0 42.9 64.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN078718.D

Acq: 01 Aug 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

IBLK

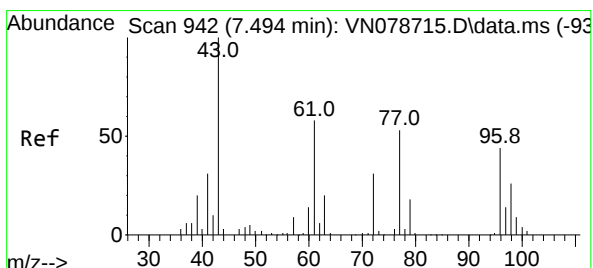
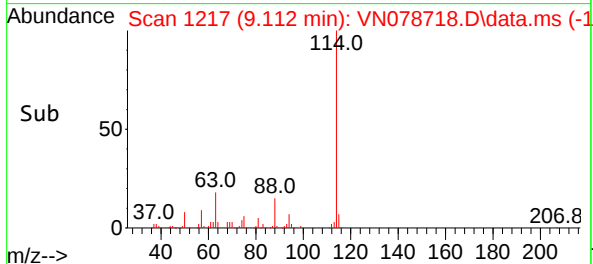
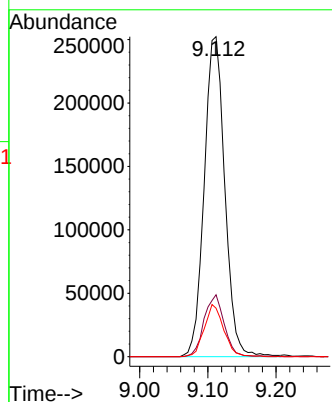
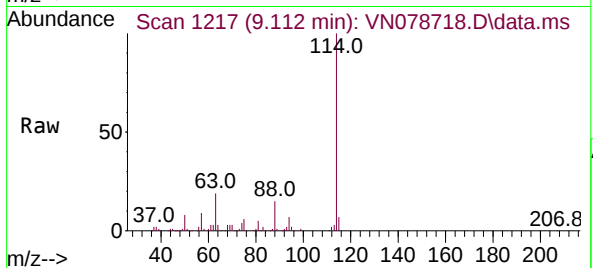
Tgt Ion:114 Resp: 530586

Ion Ratio Lower Upper

114 100

63 18.8 15.2 22.8

88 15.5 12.5 18.7



#30

2-Butanone

Concen: 0.238 ug/l

RT: 7.506 min Scan# 944

Delta R.T. 0.012 min

Lab File: VN078718.D

Acq: 01 Aug 2023 15:23

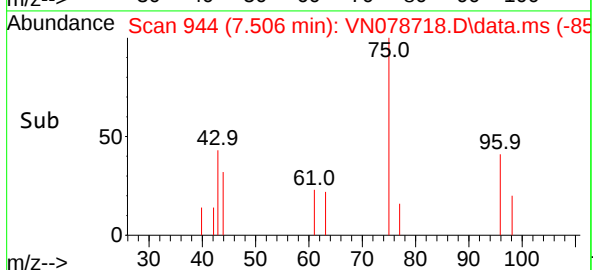
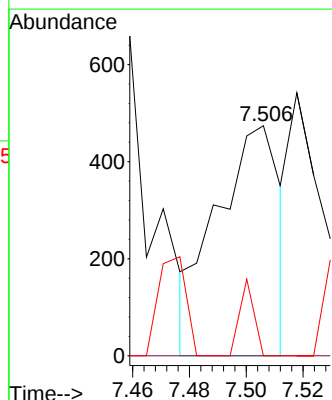
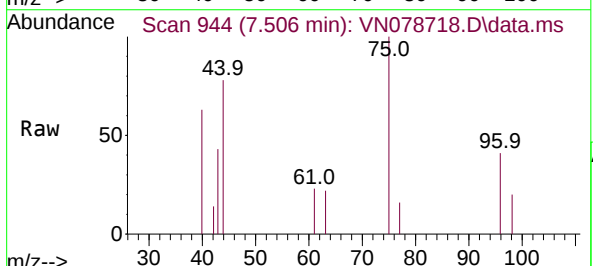
Tgt Ion: 43 Resp: 735

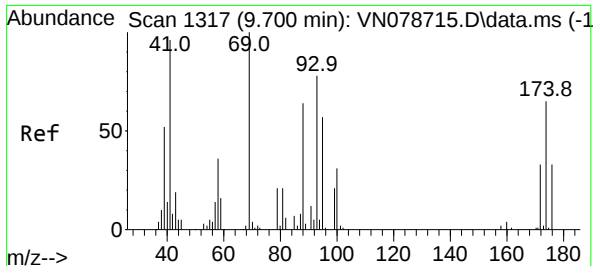
Ion Ratio Lower Upper

43 100

57 0.0 6.8 10.2#

72 0.0 23.8 35.6#





#45

1,4-Dioxane

Concen: 1.243 ug/l

RT: 9.706 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN078718.D

Acq: 01 Aug 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

IBLK

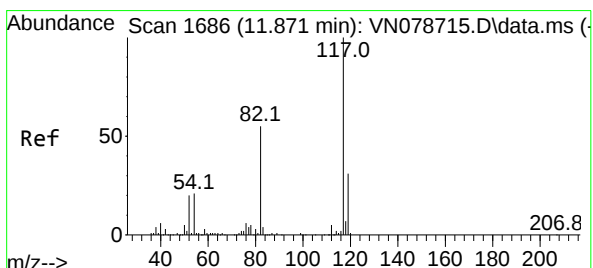
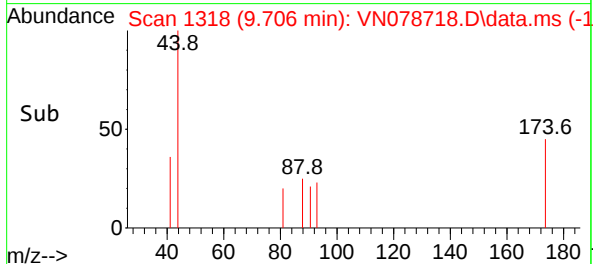
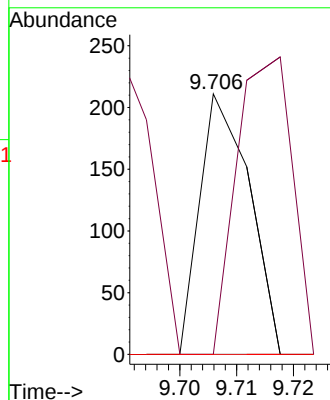
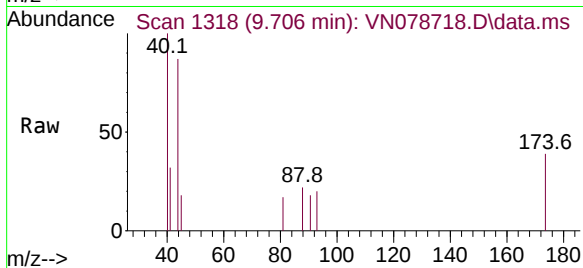
Tgt Ion: 88 Resp: 128

Ion Ratio Lower Upper

88 100

43 127.3 19.0 28.6#

58 0.0 48.2 72.2#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.870 min Scan# 1686

Delta R.T. -0.000 min

Lab File: VN078718.D

Acq: 01 Aug 2023 15:23

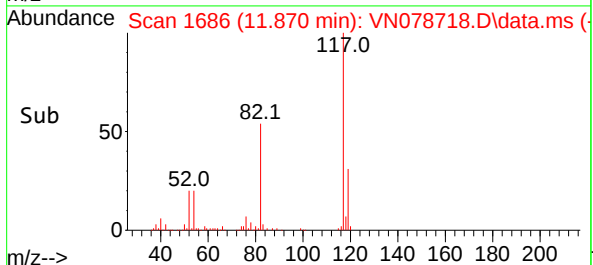
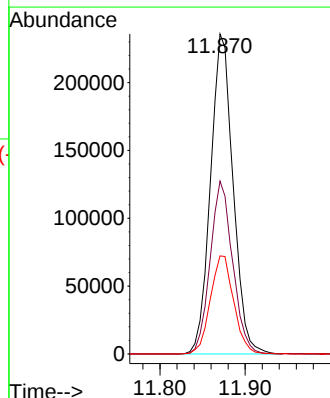
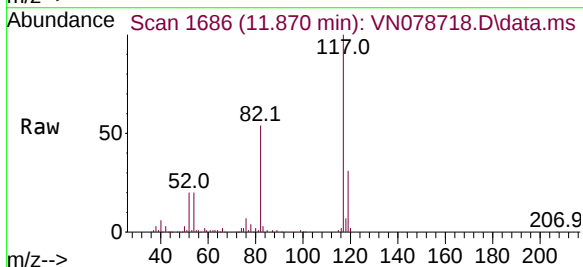
Tgt Ion: 117 Resp: 433209

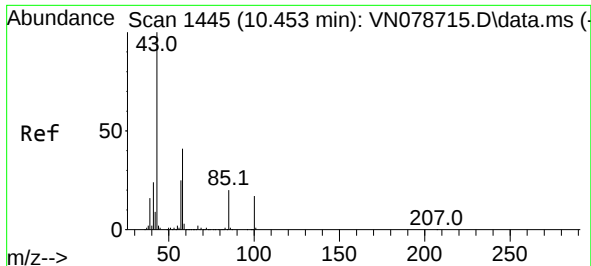
Ion Ratio Lower Upper

117 100

82 53.8 43.9 65.9

119 31.7 26.2 39.4





#58

4-Methyl-2-Pentanone

Concen: 0.279 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. -0.000 min

Lab File: VN078718.D

Acq: 01 Aug 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

IBLK

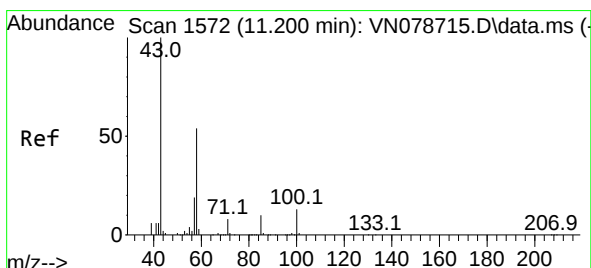
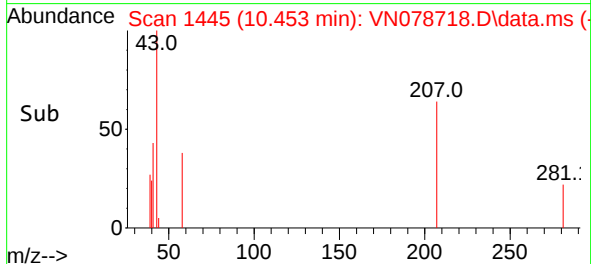
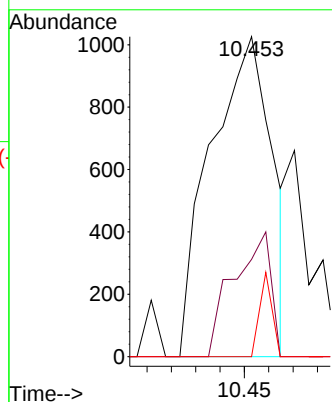
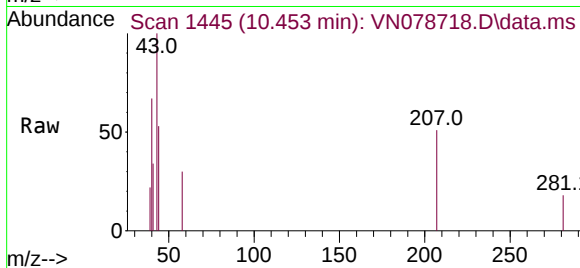
Tgt Ion: 43 Resp: 1808

Ion Ratio Lower Upper

43 100

58 23.6 32.6 48.8#

85 0.0 16.2 24.2#



#59

2-Hexanone

Concen: 0.634 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN078718.D

Acq: 01 Aug 2023 15:23

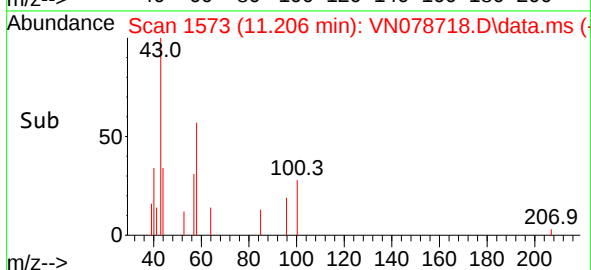
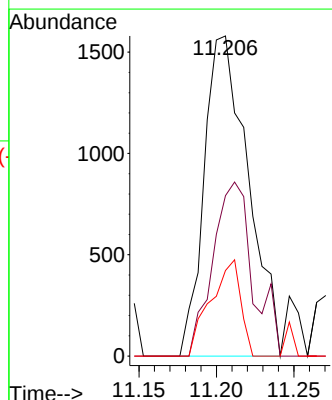
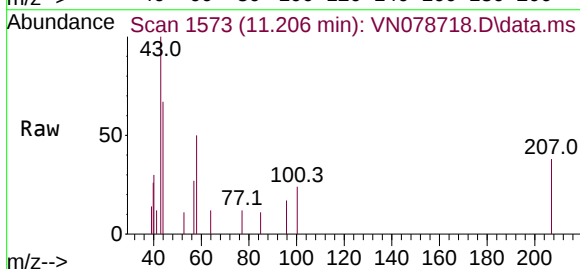
Tgt Ion: 43 Resp: 3112

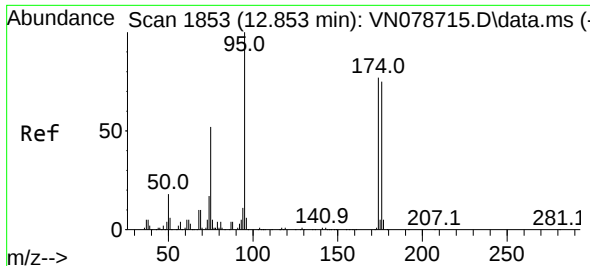
Ion Ratio Lower Upper

43 100

58 45.4 45.9 68.9#

57 20.6 15.8 23.6

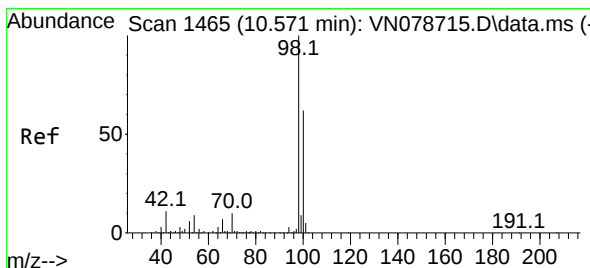
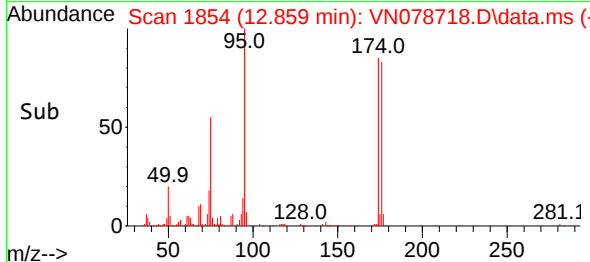
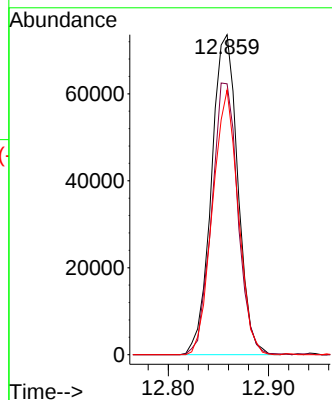
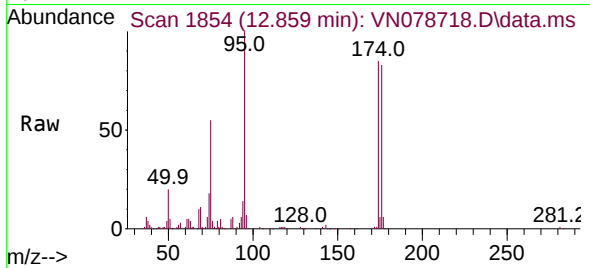




#60
4-Bromofluorobenzene
Concen: 20.728 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078718.D
Acq: 01 Aug 2023 15:23

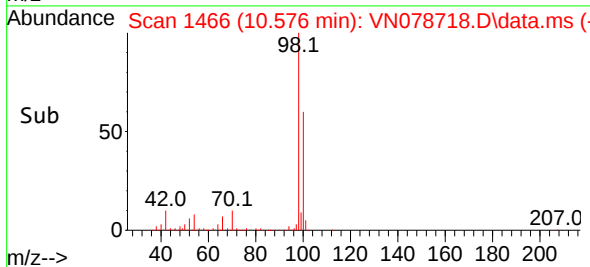
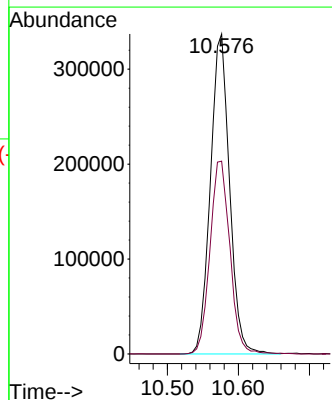
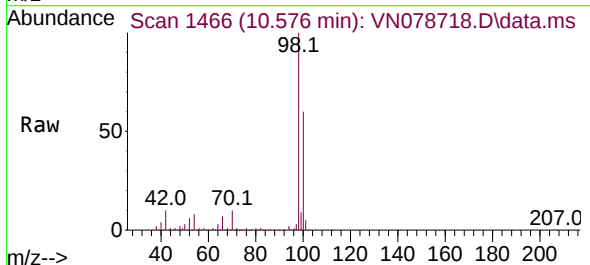
Instrument :
MSVOA_N
ClientSampleId :
IBLK

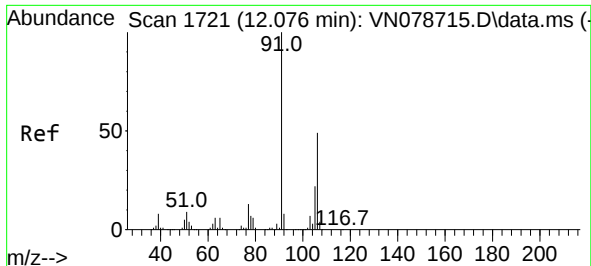
Tgt Ion: 95 Resp: 134569
Ion Ratio Lower Upper
95 100
174 84.1 61.7 92.5
176 80.1 58.1 87.1



#63
Toluene-d8
Concen: 29.472 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN078718.D
Acq: 01 Aug 2023 15:23

Tgt Ion: 98 Resp: 630713
Ion Ratio Lower Upper
98 100
100 62.6 49.7 74.5

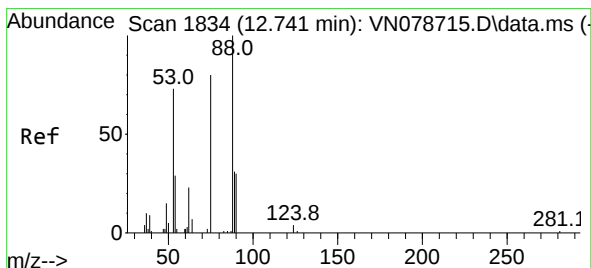
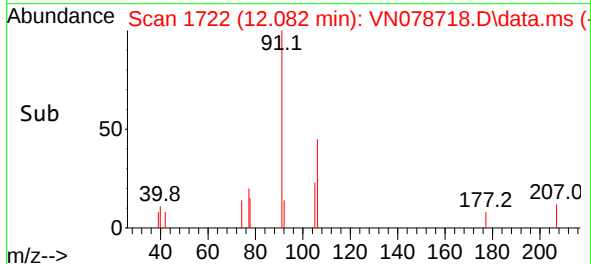
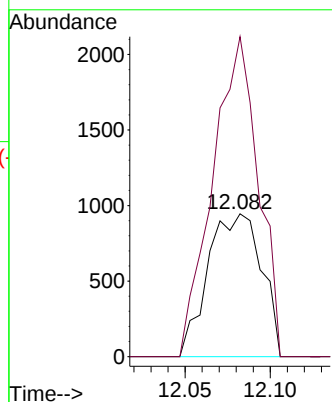
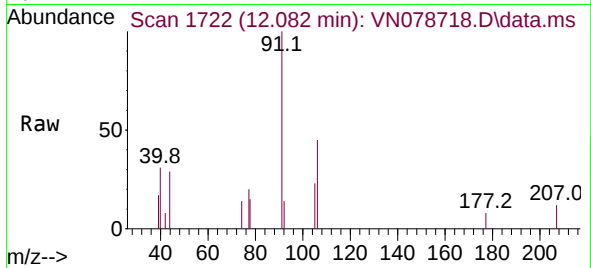




#67
m/p-Xylenes
Concen: 0.206 ug/l
RT: 12.082 min Scan# 1721
Delta R.T. 0.006 min
Lab File: VN078718.D
Acq: 01 Aug 2023 15:23

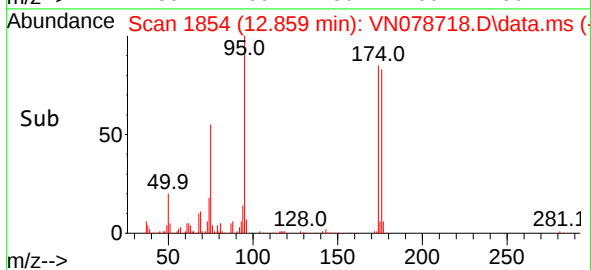
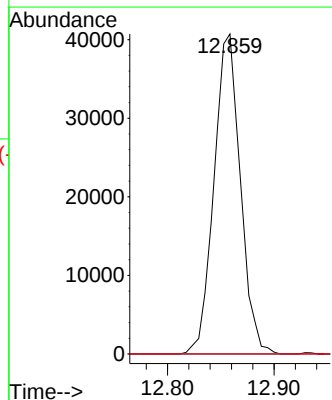
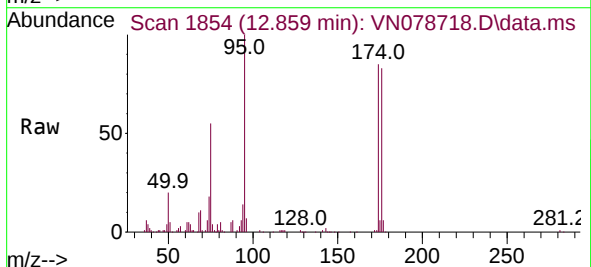
Instrument :
MSVOA_N
ClientSampleId :
IBLK

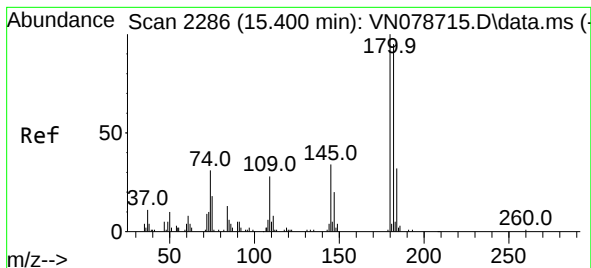
Tgt Ion:106 Resp: 2071
Ion Ratio Lower Upper
106 100
91 190.0 162.5 243.7



#77
t-1,4-Dichloro-2-butene
Concen: 29.087 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.118 min
Lab File: VN078718.D
Acq: 01 Aug 2023 15:23

Tgt Ion: 75 Resp: 69952
Ion Ratio Lower Upper
75 100
53 0.0 41.6 124.9#
89 0.0 25.1 75.4#





#89

1,2,4-Trichlorobenzene

Concen: 0.419 ug/l

RT: 15.400 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN078718.D

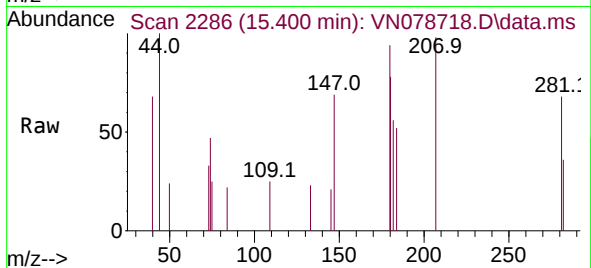
Acq: 01 Aug 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

IBLK



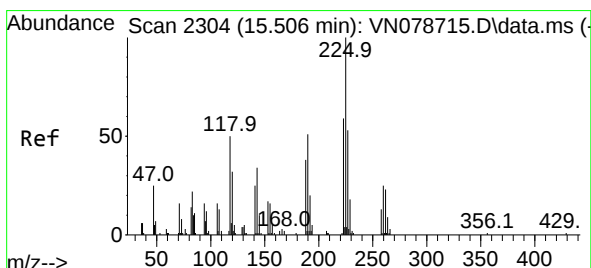
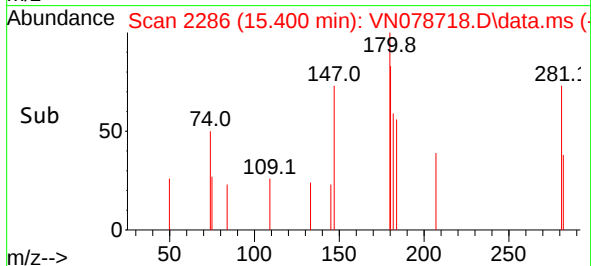
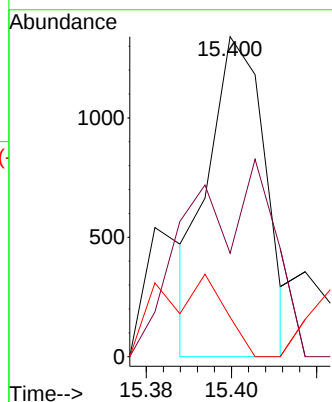
Tgt Ion:180 Resp: 1228

Ion Ratio Lower Upper

180 100

182 36.8 73.7 110.5#

145 0.0 25.0 37.6#



#90

Hexachlorobutadiene

Concen: 0.664 ug/l

RT: 15.506 min Scan# 2304

Delta R.T. -0.000 min

Lab File: VN078718.D

Acq: 01 Aug 2023 15:23

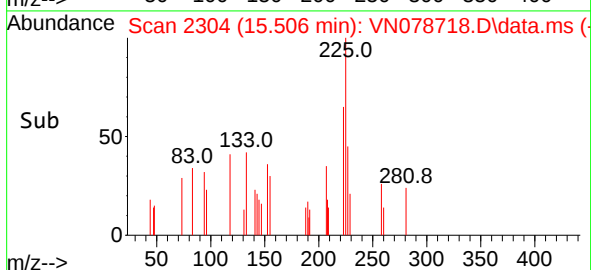
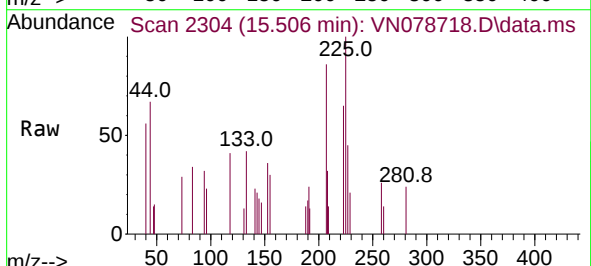
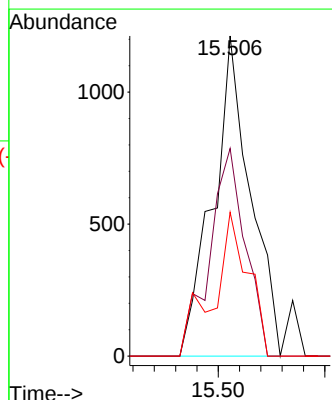
Tgt Ion:225 Resp: 1483

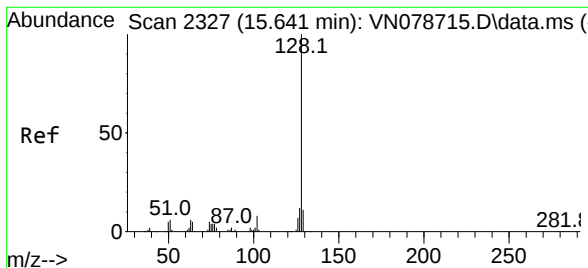
Ion Ratio Lower Upper

225 100

223 61.8 0.0 130.0

227 32.2 0.0 124.0





#91

Naphthalene

Concen: 0.623 ug/l

RT: 15.653 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN078718.D

Acq: 01 Aug 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

IBLK

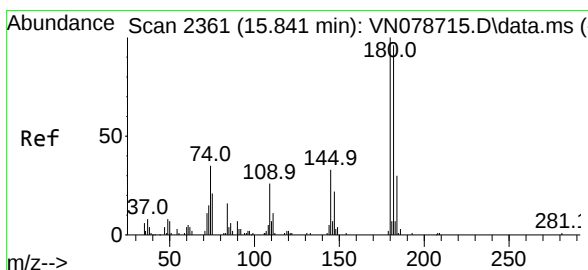
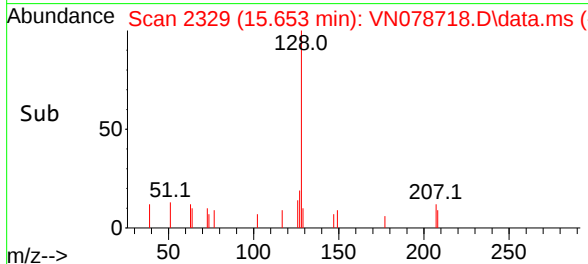
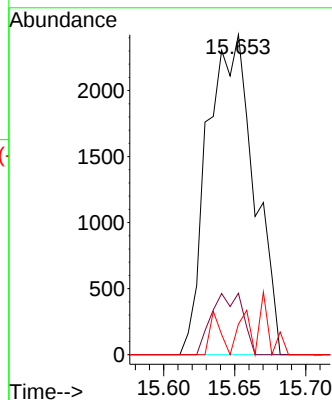
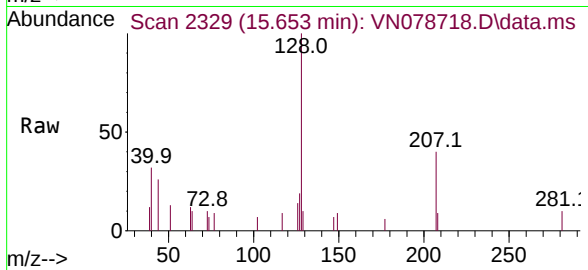
Tgt Ion:128 Resp: 5535

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 3.6 9.0 13.4#



#92

1,2,3-Trichlorobenzene

Concen: 0.259 ug/l

RT: 15.847 min Scan# 2362

Delta R.T. 0.006 min

Lab File: VN078718.D

Acq: 01 Aug 2023 15:23

Tgt Ion:180 Resp: 865

Ion Ratio Lower Upper

180 100

182 12.5 0.0 196.4

145 24.0 0.0 71.0

