

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042224\
 Data File : VN081824.D
 Acq On : 22 Apr 2024 13:22
 Operator : JC\MD
 Sample : P2212-01RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 23 06:56:43 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)

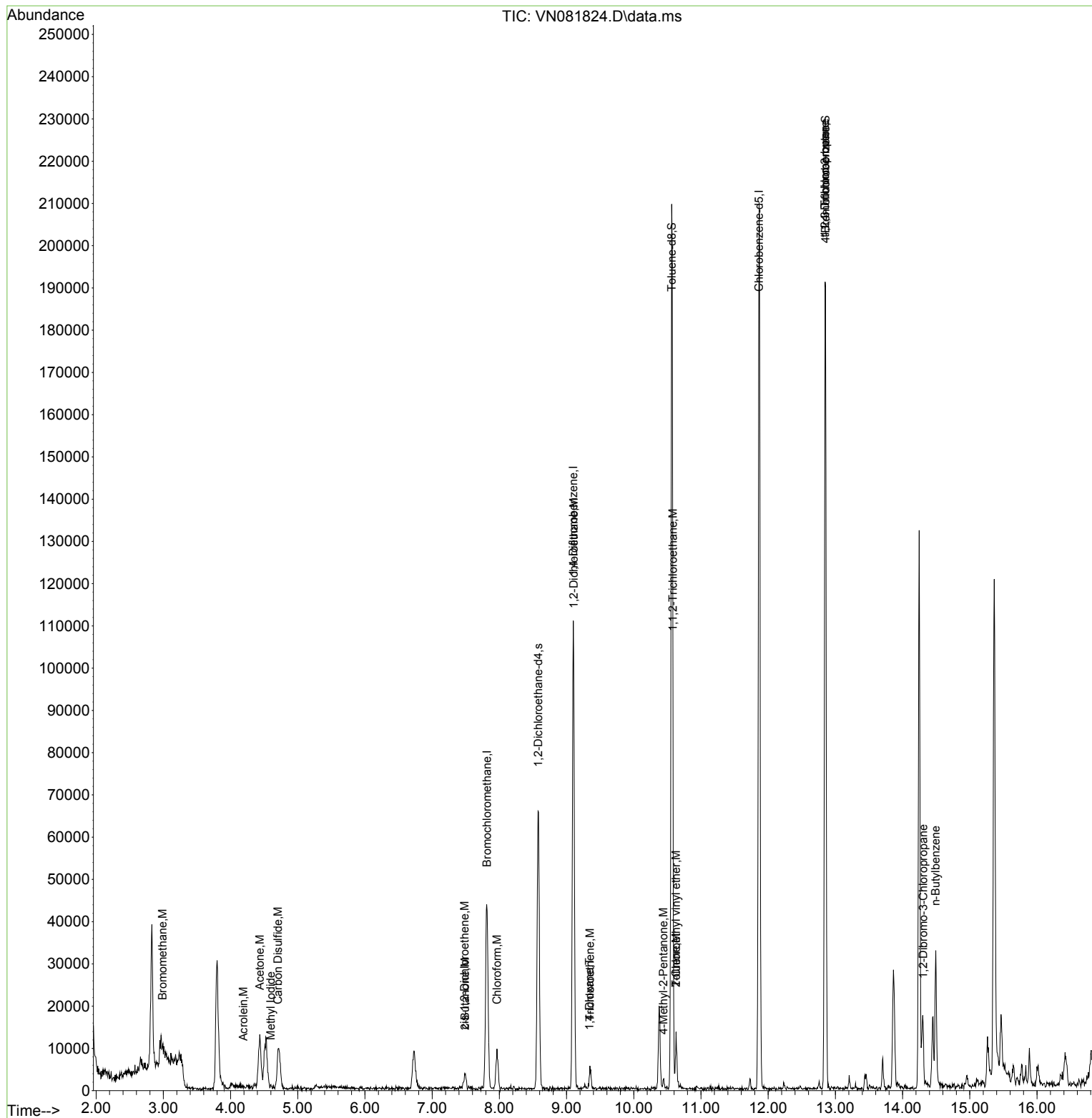
Internal Standards						
1) Bromochloromethane	7.818	128	15277	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	93129	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	119387	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	53302	28.401	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	94.667%
60) 4-Bromofluorobenzene	12.853	95	61676	26.276	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	87.600%
63) Toluene-d8	10.565	98	141086	29.461	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.200%
Target Compounds						
					Qvalue	
5) Bromomethane	2.989	94	513	0.318	ug/l	92
11) Methyl Iodide	4.600	142	601	0.270	ug/l #	34
13) Acrolein	4.189	56	171	0.719	ug/l #	54
15) Acetone	4.436	58	7320	37.013	ug/l	83
16) Carbon Disulfide	4.706	76	1184	0.212	ug/l #	78
22) cis-1,2-Dichloroethene	7.483	96	833	0.320	ug/l #	1
25) Chloroform	7.965	83	5747	1.337	ug/l #	82
30) 2-Butanone	7.488	43	768	0.821	ug/l #	52
36) 1,2-Dichloroethane	9.106	62	3377	1.305	ug/l #	72
37) Trichloroethene	9.347	130	960	0.460	ug/l	85
45) 1,4-Dioxane	9.341	88	173	4.539	ug/l #	1
50) 1,1,2-Trichloroethane	10.582	97	5218	2.659	ug/l #	3
55) 2-Chloroethyl vinyl ether	10.629	63	347	0.259	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	1231	0.600	ug/l #	77
62) Toluene	10.629	91	8528	0.982	ug/l	99
72) 1,2,3-Trichloropropane	12.847	75	34012	15.698	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	34012	37.907	ug/l #	12
85) n-Butylbenzene	14.494	91	2935	0.445	ug/l	89
88) 1,2-Dibromo-3-Chloropr...	14.306	75	406	0.796	ug/l #	4

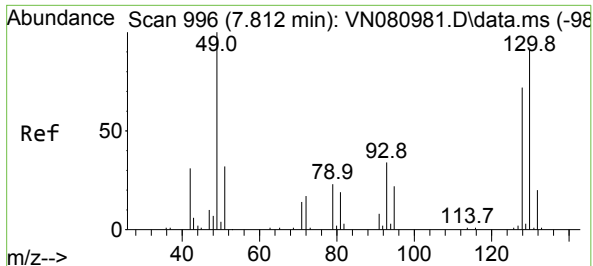
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042224\
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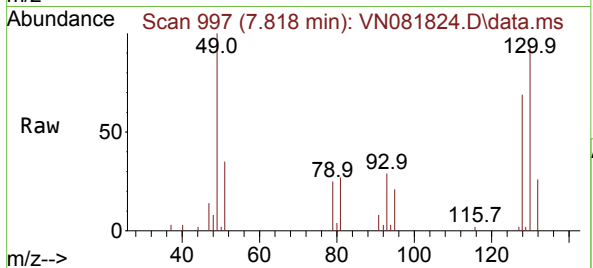
Quant Time: Apr 23 06:56:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 11 09:25:01 2024
Response via : Initial Calibration



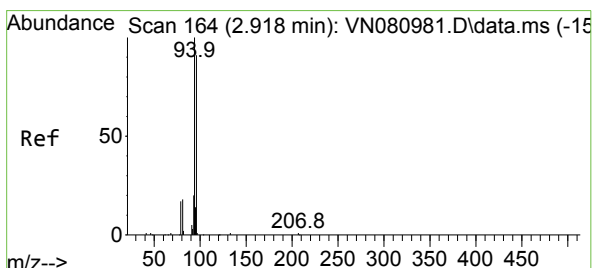
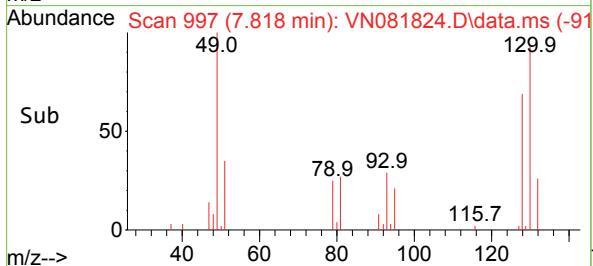
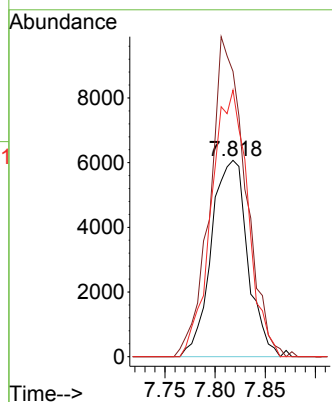


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN081824.D
Acq: 22 Apr 2024 13:22

Instrument :
MSVOA_N
ClientSampleId :

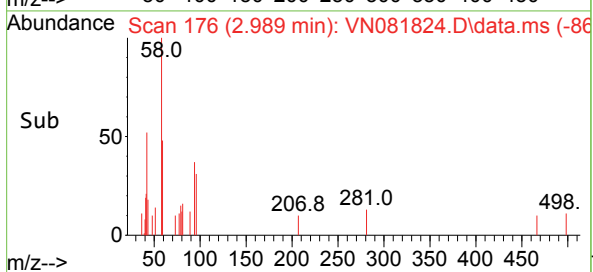
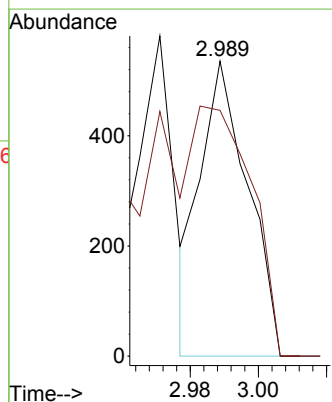
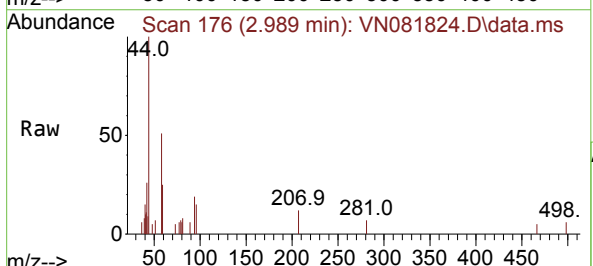


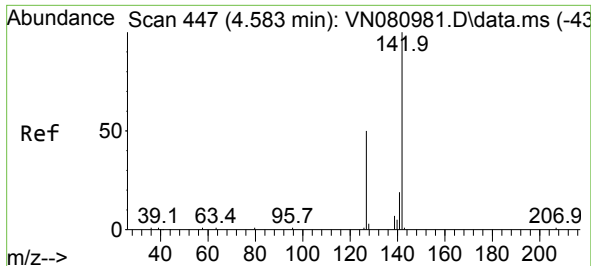
Tgt Ion:128 Resp: 15277
Ion Ratio Lower Upper
128 100
49 157.9 0.0 403.7
130 136.8 0.0 323.3



#5
Bromomethane
Concen: 0.318 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.029 min
Lab File: VN081824.D
Acq: 22 Apr 2024 13:22

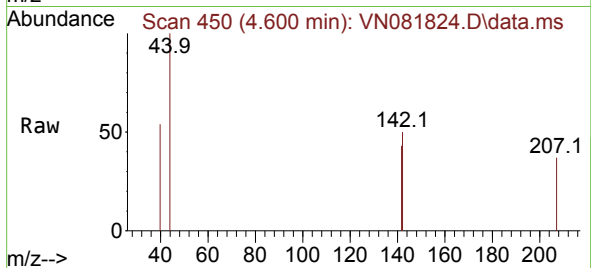
Tgt Ion: 94 Resp: 513
Ion Ratio Lower Upper
94 100
96 83.4 72.8 109.2



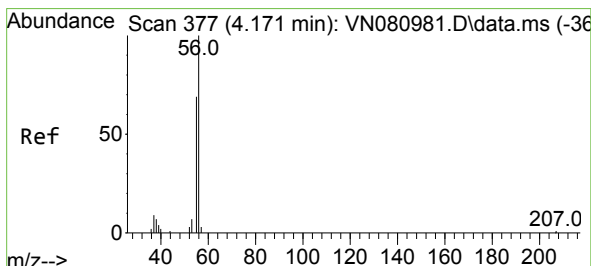
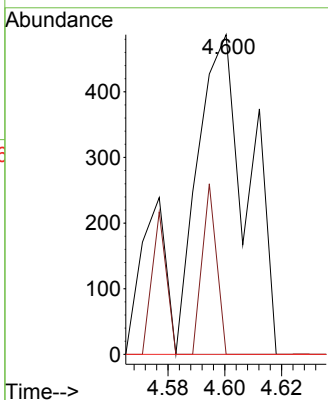
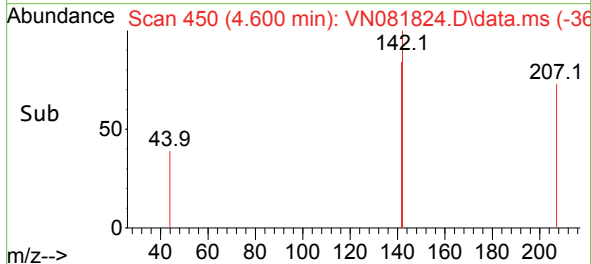


#11
Methyl Iodide
Concen: 0.270 ug/l
RT: 4.600 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN081824.D
Acq: 22 Apr 2024 13:22

Instrument :
MSVOA_N
ClientSampleId :

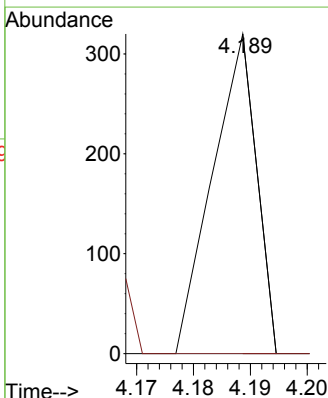
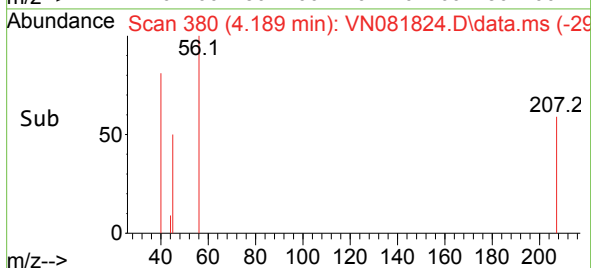
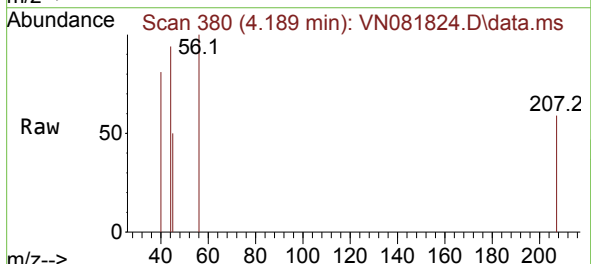


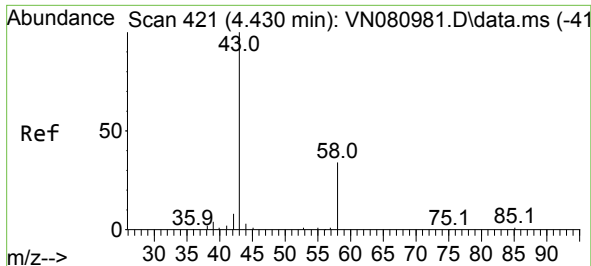
Tgt Ion:142 Resp: 601
Ion Ratio Lower Upper
142 100
127 0.0 26.3 78.9#
141 0.0 8.3 24.9#



#13
Acrolein
Concen: 0.719 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.006 min
Lab File: VN081824.D
Acq: 22 Apr 2024 13:22

Tgt Ion: 56 Resp: 171
Ion Ratio Lower Upper
56 100
55 31.6 55.5 83.3#





#15

Acetone

Concen: 37.013 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

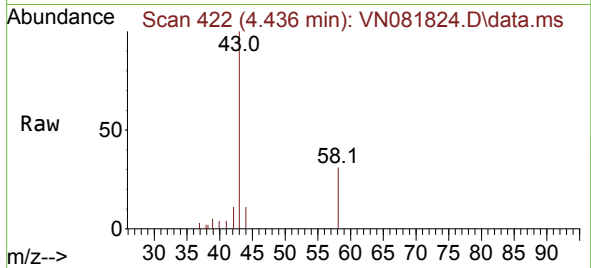
Lab File: VN081824.D

Acq: 22 Apr 2024 13:22

Instrument :

MSVOA_N

ClientSampleId :

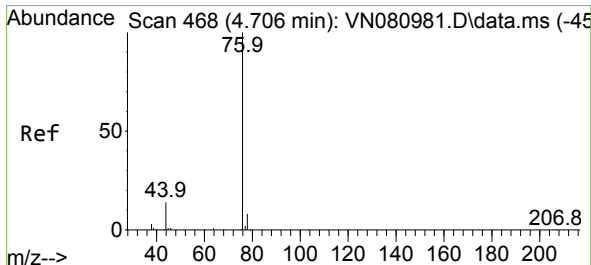
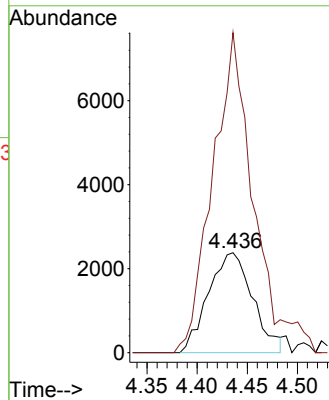
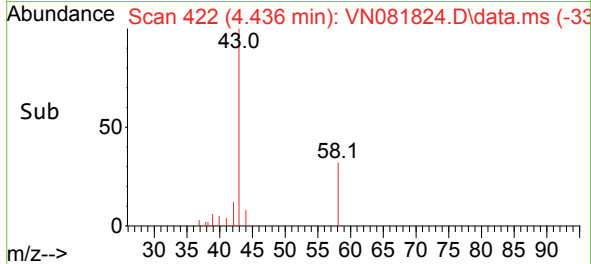


Tgt Ion: 58 Resp: 7320

Ion Ratio Lower Upper

58 100

43 311.5 223.1 334.7



#16

Carbon Disulfide

Concen: 0.212 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.006 min

Lab File: VN081824.D

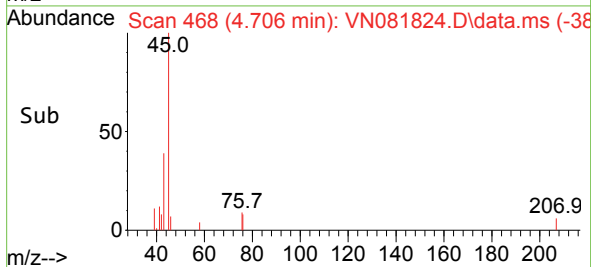
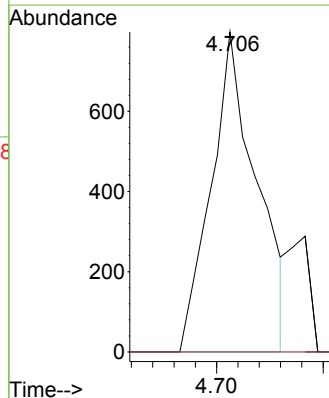
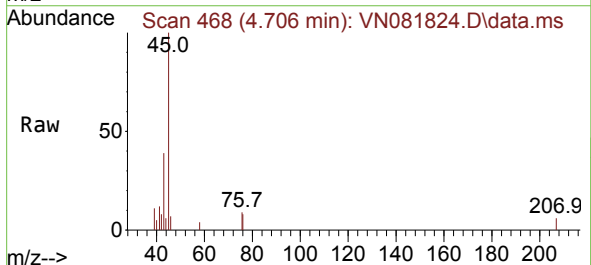
Acq: 22 Apr 2024 13:22

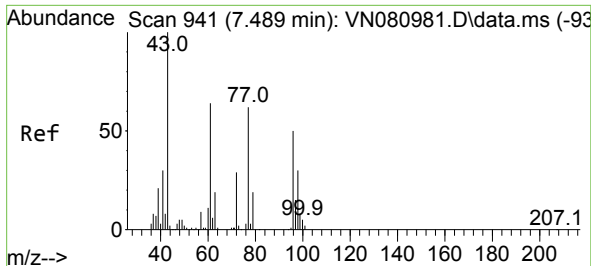
Tgt Ion: 76 Resp: 1184

Ion Ratio Lower Upper

76 100

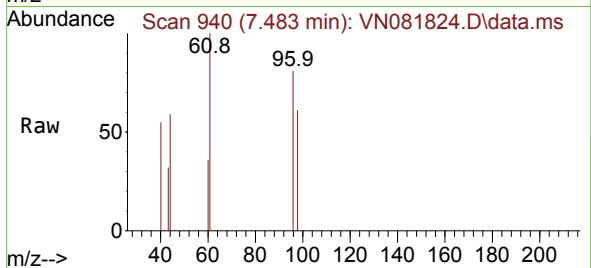
78 0.0 6.3 9.5#



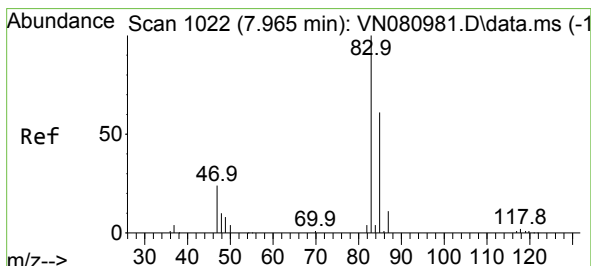
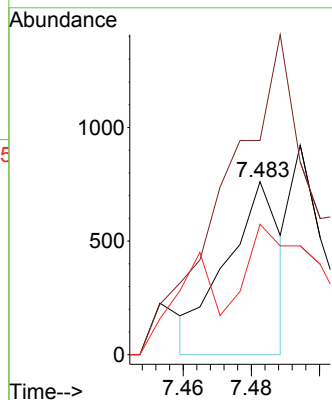
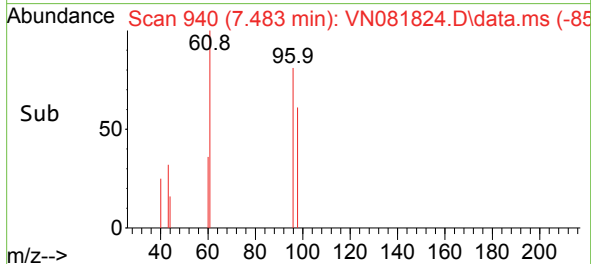


#22
 cis-1,2-Dichloroethene
 Concen: 0.320 ug/l
 RT: 7.483 min Scan# 941
 Delta R.T. 0.000 min
 Lab File: VN081824.D
 Acq: 22 Apr 2024 13:22

Instrument :
 MSVOA_N
 ClientSampleId :

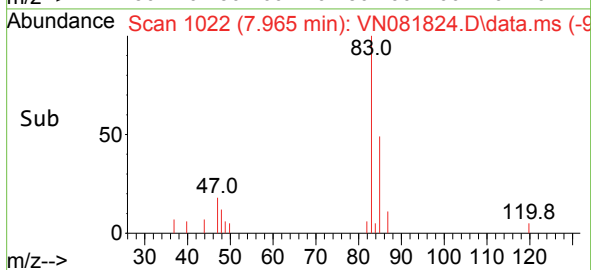
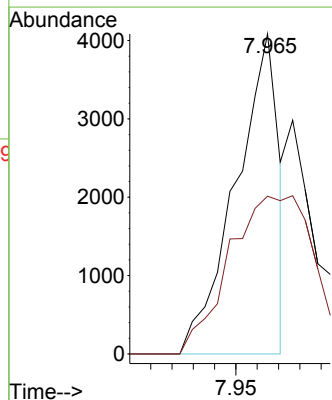
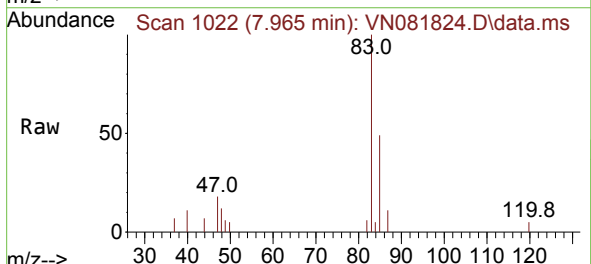


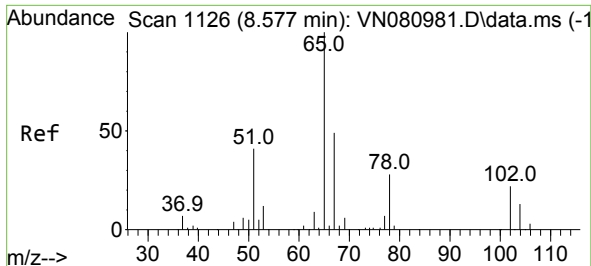
Tgt Ion: 96 Resp: 833
 Ion Ratio Lower Upper
 96 100
 61 0.0 113.5 170.3#
 98 113.6 52.0 78.0#



#25
 Chloroform
 Concen: 1.337 ug/l
 RT: 7.965 min Scan# 1022
 Delta R.T. -0.006 min
 Lab File: VN081824.D
 Acq: 22 Apr 2024 13:22

Tgt Ion: 83 Resp: 5747
 Ion Ratio Lower Upper
 83 100
 85 49.3 50.9 76.3#





#27

1,2-Dichloroethane-d4

Concen: 28.401 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN081824.D

Acq: 22 Apr 2024 13:22

Instrument :

MSVOA_N

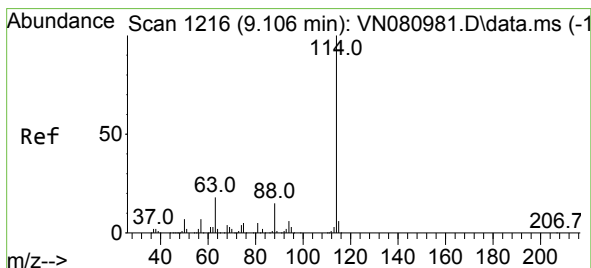
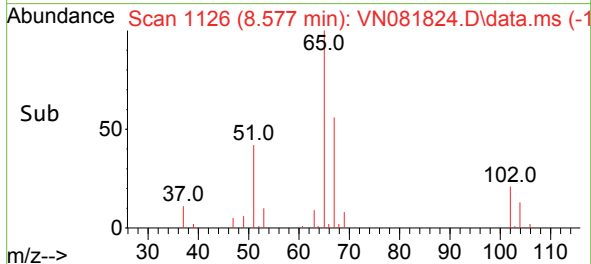
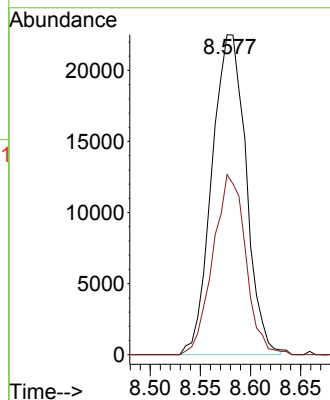
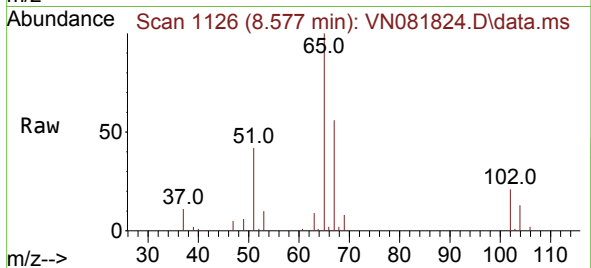
ClientSampleId :

Tgt Ion: 65 Resp: 53302

Ion Ratio Lower Upper

65 100

67 53.9 43.2 64.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN081824.D

Acq: 22 Apr 2024 13:22

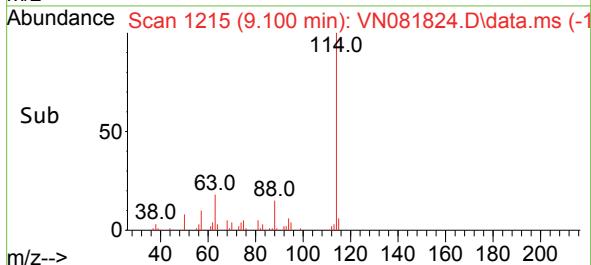
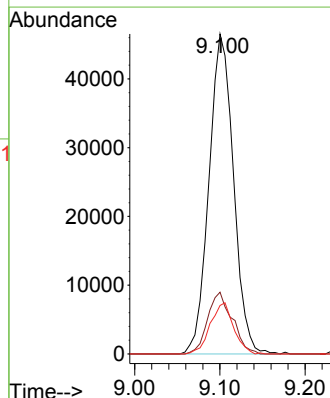
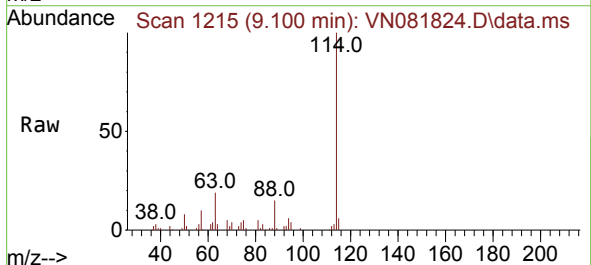
Tgt Ion: 114 Resp: 93129

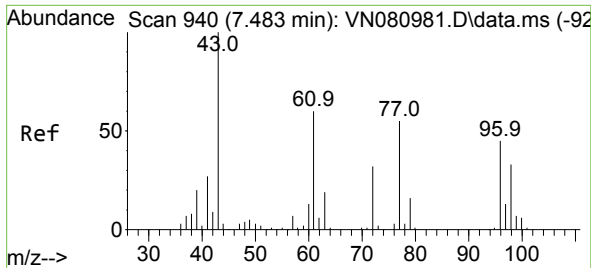
Ion Ratio Lower Upper

114 100

63 19.4 15.9 23.9

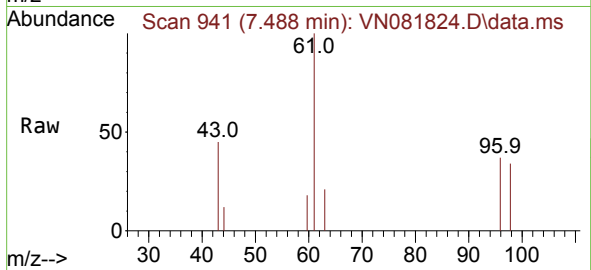
88 15.2 12.7 19.1



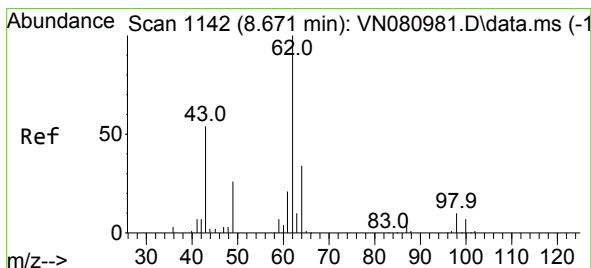
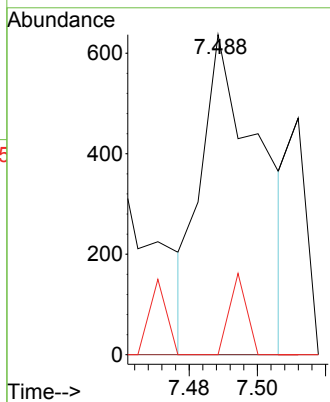
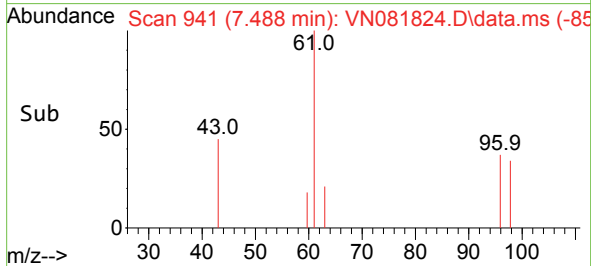


#30
2-Butanone
Concen: 0.821 ug/l
RT: 7.488 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN081824.D
Acq: 22 Apr 2024 13:22

Instrument :
MSVOA_N
ClientSampleId :

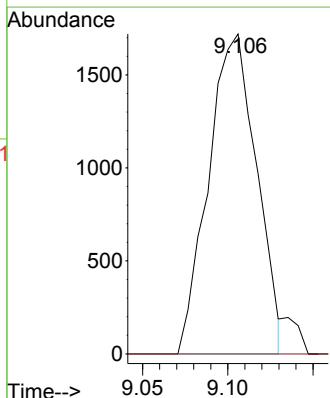
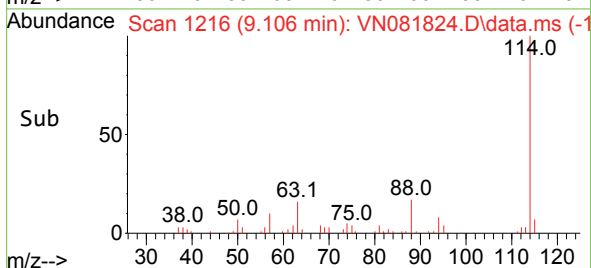
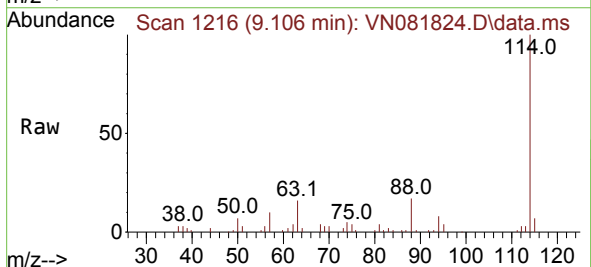


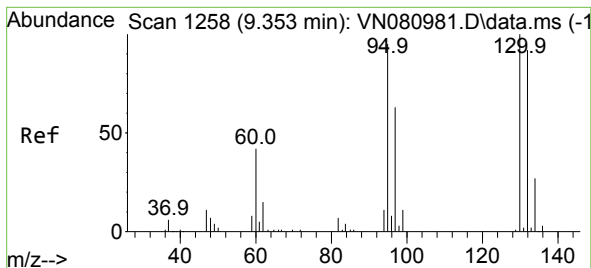
Tgt Ion: 43 Resp: 768
Ion Ratio Lower Upper
43 100
57 0.0 6.7 10.1#
72 0.0 24.0 36.0#



#36
1,2-Dichloroethane
Concen: 1.305 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.435 min
Lab File: VN081824.D
Acq: 22 Apr 2024 13:22

Tgt Ion: 62 Resp: 3377
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.4#





#37

Trichloroethene

Concen: 0.460 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.006 min

Lab File: VN081824.D

Acq: 22 Apr 2024 13:22

Instrument :

MSVOA_N

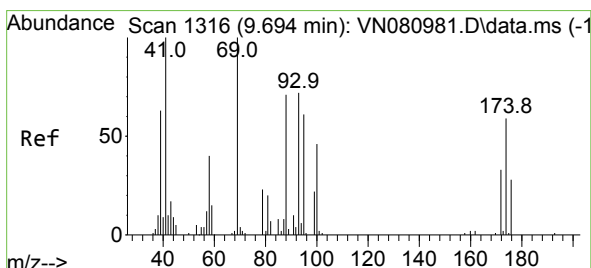
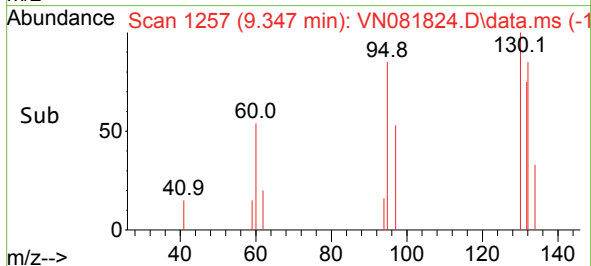
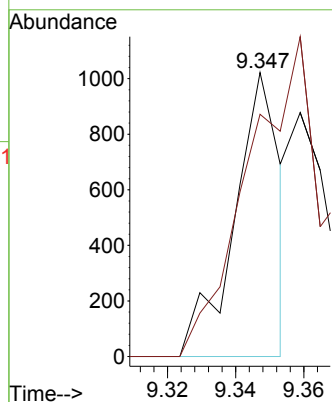
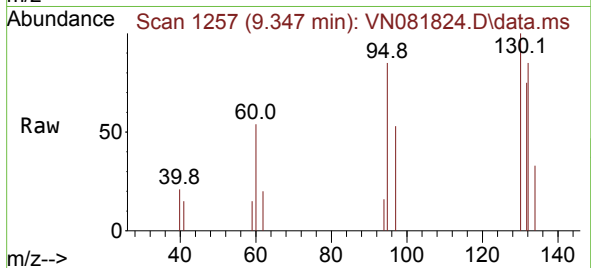
ClientSampleId :

Tgt Ion:130 Resp: 960

Ion Ratio Lower Upper

130 100

95 85.3 80.2 120.4



#45

1,4-Dioxane

Concen: 4.539 ug/l

RT: 9.341 min Scan# 1256

Delta R.T. -0.353 min

Lab File: VN081824.D

Acq: 22 Apr 2024 13:22

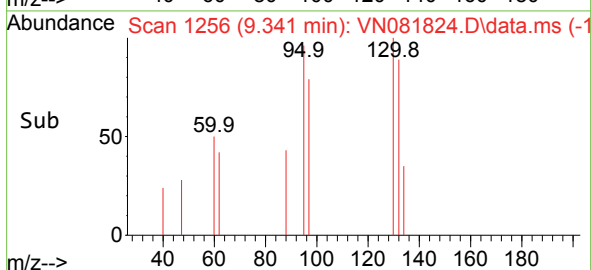
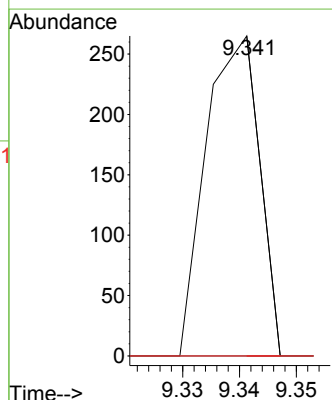
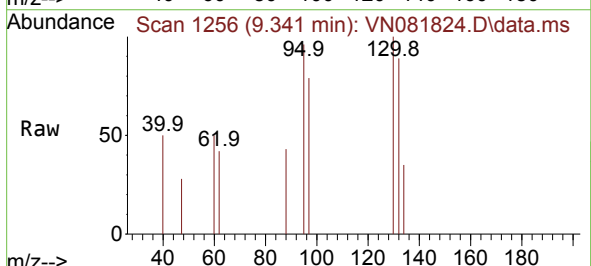
Tgt Ion: 88 Resp: 173

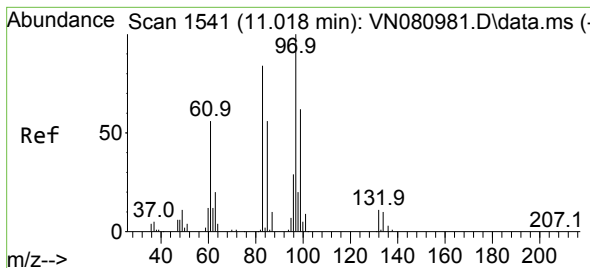
Ion Ratio Lower Upper

88 100

43 103.5 19.8 29.6#

58 0.0 55.4 83.0#





#50

1,1,2-Trichloroethane

Concen: 2.659 ug/l

RT: 10.582 min Scan# 14

Delta R.T. -0.435 min

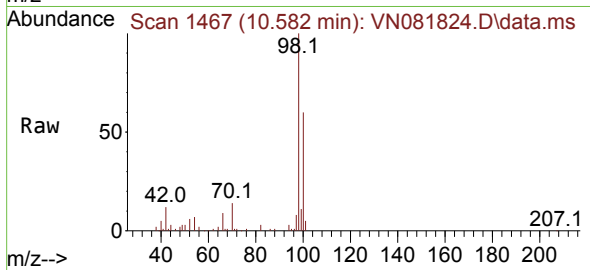
Lab File: VN081824.D

Acq: 22 Apr 2024 13:22

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 97 Resp: 5218

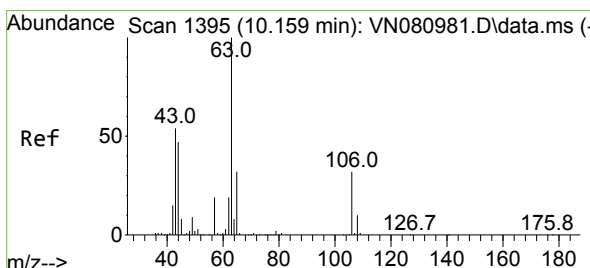
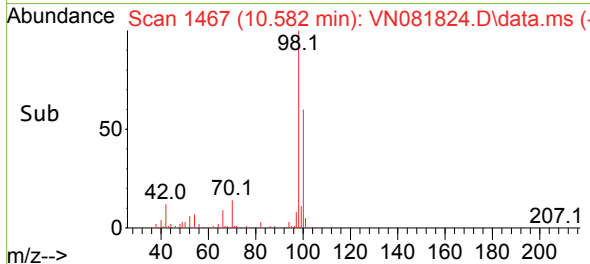
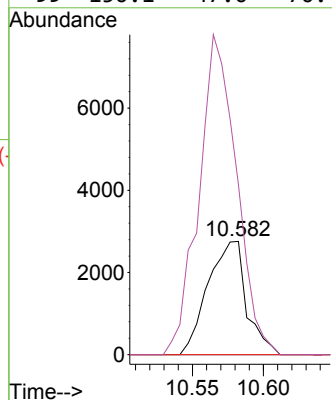
Ion Ratio Lower Upper

97 100

83 0.0 68.1 102.1#

85 0.0 41.8 62.6#

99 150.1 47.0 70.4#



#55

2-Chloroethyl vinyl ether

Concen: 0.259 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.465 min

Lab File: VN081824.D

Acq: 22 Apr 2024 13:22

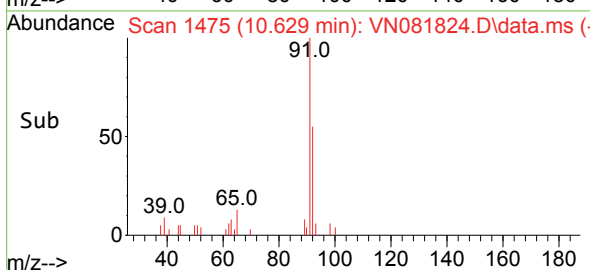
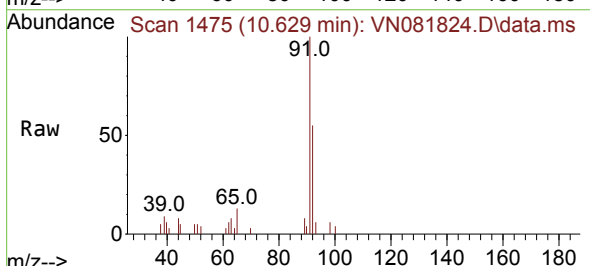
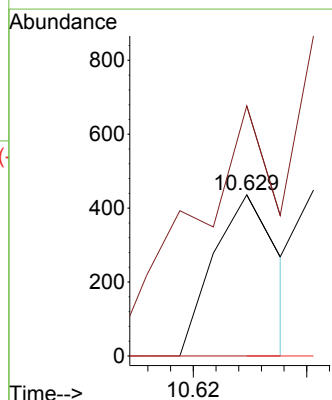
Tgt Ion: 63 Resp: 347

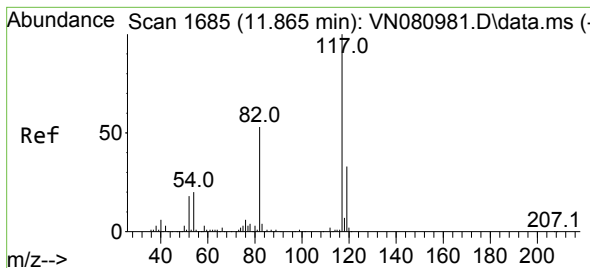
Ion Ratio Lower Upper

63 100

65 205.2 26.2 39.2#

106 0.0 23.8 35.8#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

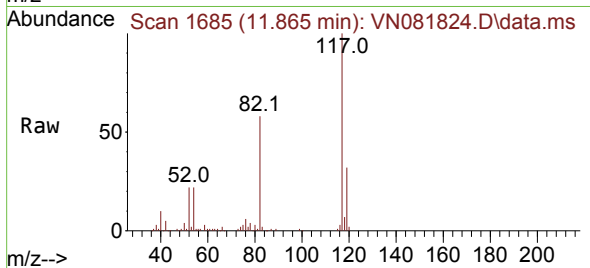
Lab File: VN081824.D

Acq: 22 Apr 2024 13:22

Instrument :

MSVOA_N

ClientSampleId :



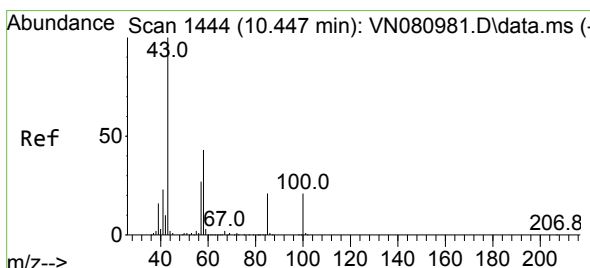
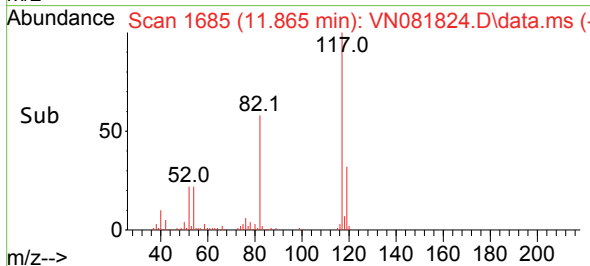
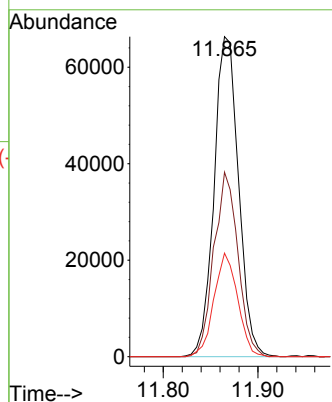
Tgt Ion:117 Resp: 119387

Ion Ratio Lower Upper

117 100

82 56.6 46.6 69.8

119 31.4 25.4 38.2



#58

4-Methyl-2-Pentanone

Concen: 0.600 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.006 min

Lab File: VN081824.D

Acq: 22 Apr 2024 13:22

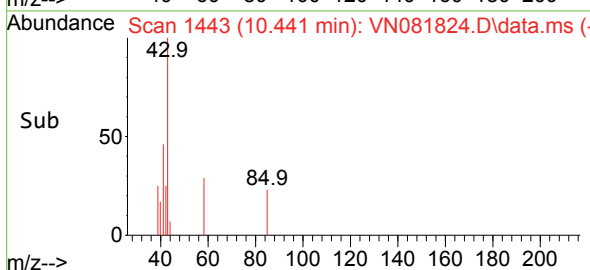
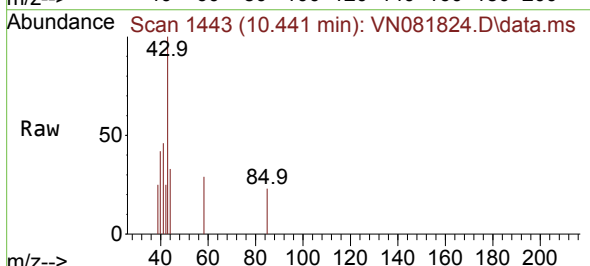
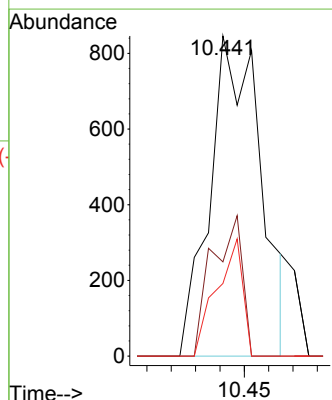
Tgt Ion: 43 Resp: 1231

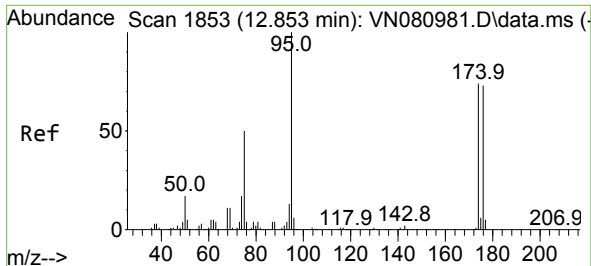
Ion Ratio Lower Upper

43 100

58 25.9 36.5 54.7#

85 18.8 19.5 29.3#

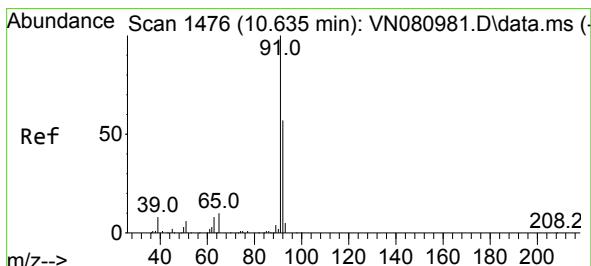
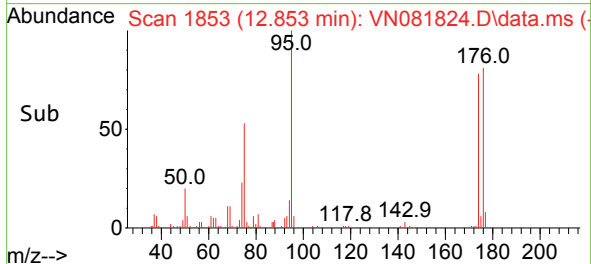
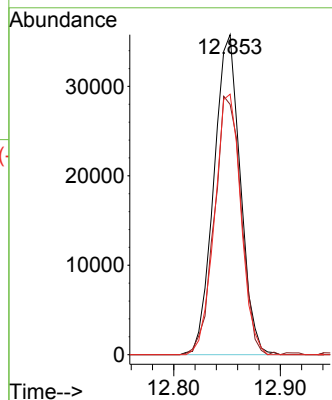
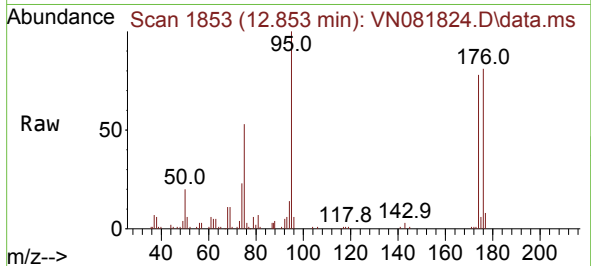




#60
4-Bromofluorobenzene
Concen: 26.276 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN081824.D
Acq: 22 Apr 2024 13:22

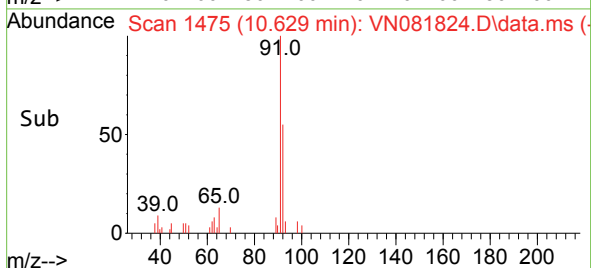
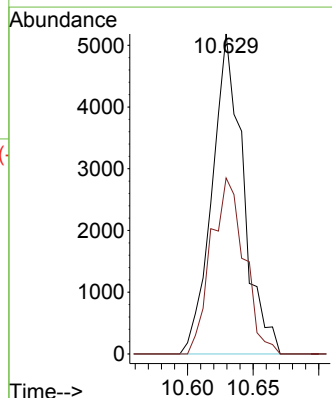
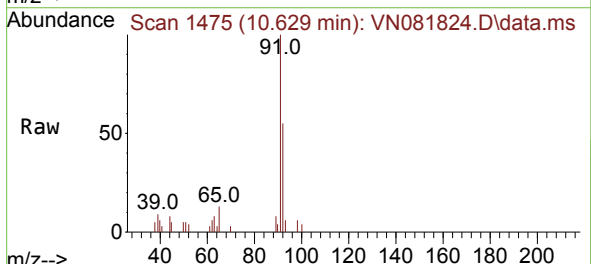
Instrument :
MSVOA_N
ClientSampleId :

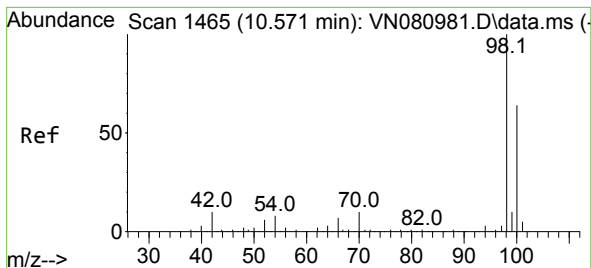
Tgt Ion: 95 Resp: 61676
Ion Ratio Lower Upper
95 100
174 81.7 60.5 90.7
176 80.7 57.8 86.6



#62
Toluene
Concen: 0.982 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN081824.D
Acq: 22 Apr 2024 13:22

Tgt Ion: 91 Resp: 8528
Ion Ratio Lower Upper
91 100
92 58.9 46.5 69.7





#63

Toluene-d8

Concen: 29.461 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN081824.D

Acq: 22 Apr 2024 13:22

Instrument :

MSVOA_N

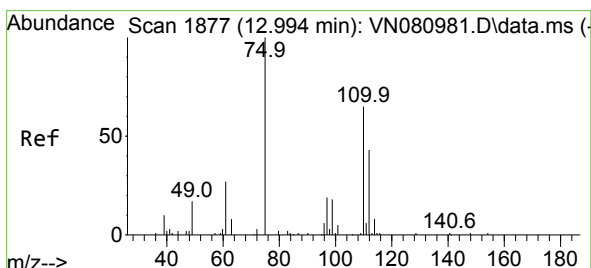
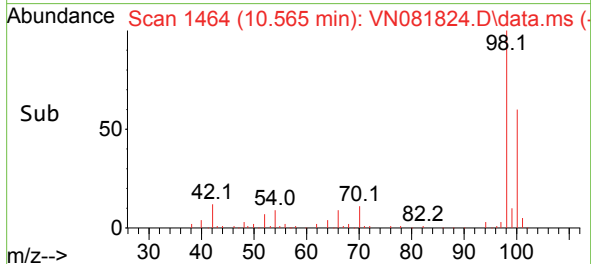
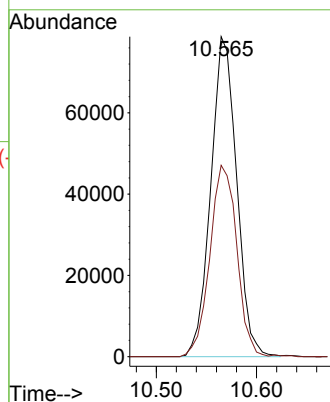
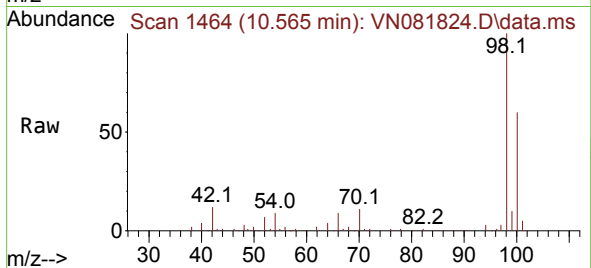
ClientSampleId :

Tgt Ion: 98 Resp: 141086

Ion Ratio Lower Upper

98 100

100 62.2 52.7 79.1



#72

1,2,3-Trichloropropane

Concen: 15.698 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081824.D

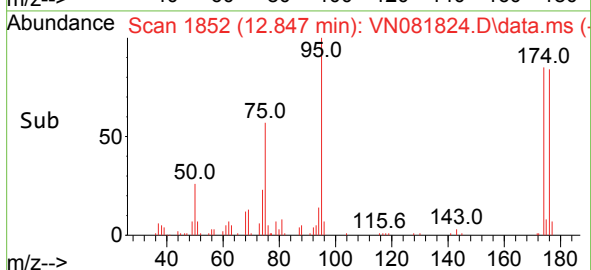
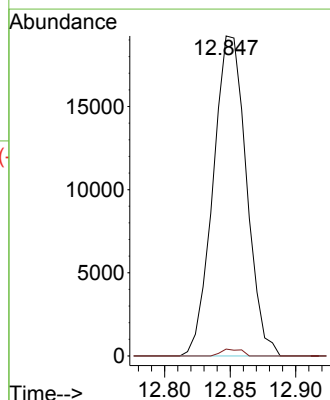
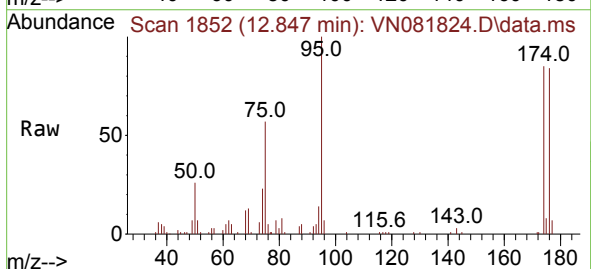
Acq: 22 Apr 2024 13:22

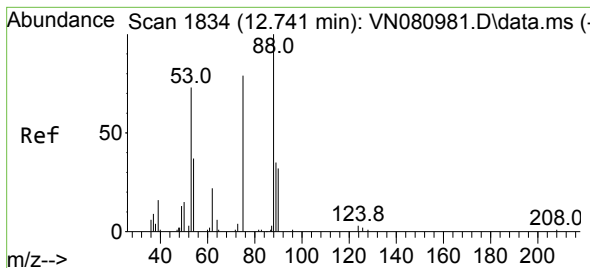
Tgt Ion: 75 Resp: 34012

Ion Ratio Lower Upper

75 100

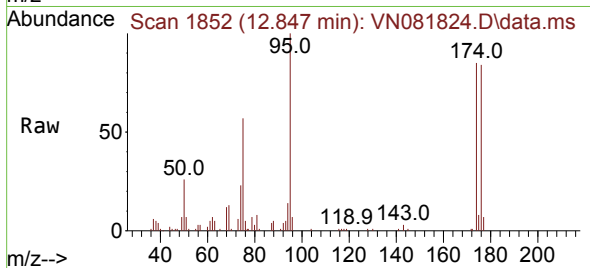
77 1.3 0.0 367.6



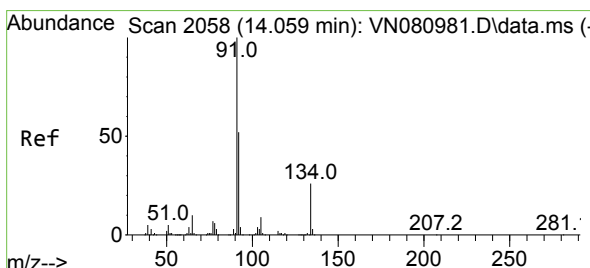
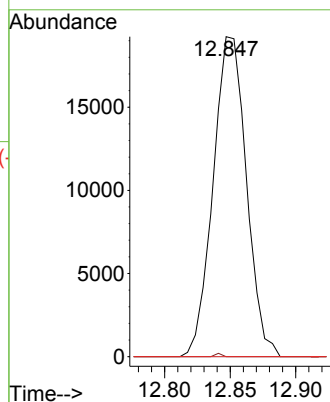
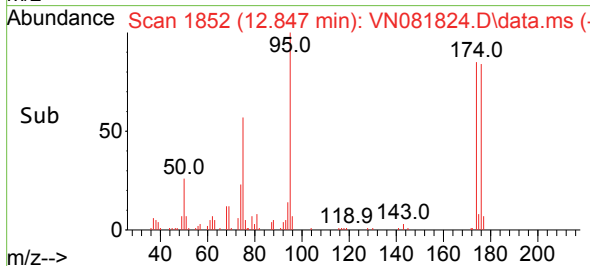


#77
 t-1,4-Dichloro-2-butene
 Concen: 37.907 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN081824.D
 Acq: 22 Apr 2024 13:22

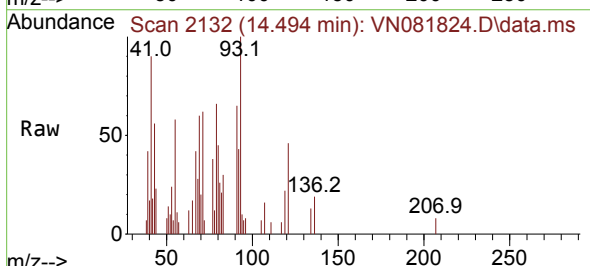
Instrument :
 MSVOA_N
 ClientSampleId :



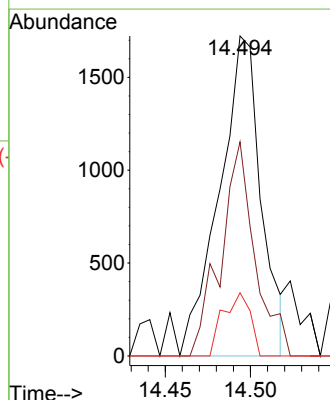
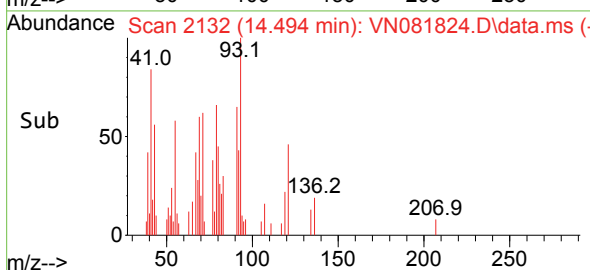
Tgt Ion: 75 Resp: 34012
 Ion Ratio Lower Upper
 75 100
 53 0.0 45.9 137.7#
 89 0.0 25.9 77.7#

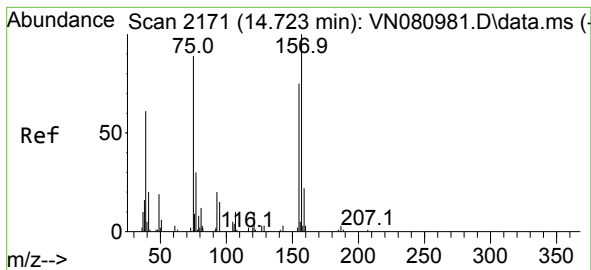


#85
 n-Butylbenzene
 Concen: 0.445 ug/l
 RT: 14.494 min Scan# 2132
 Delta R.T. 0.435 min
 Lab File: VN081824.D
 Acq: 22 Apr 2024 13:22



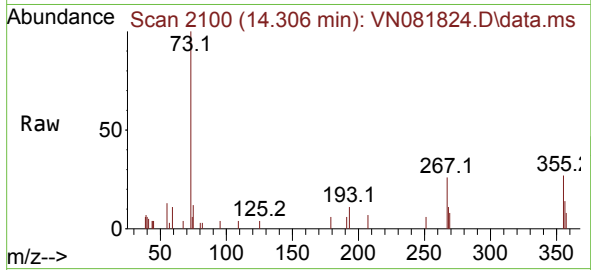
Tgt Ion: 91 Resp: 2935
 Ion Ratio Lower Upper
 91 100
 92 54.8 0.0 105.0
 134 12.8 0.0 51.8





#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.796 ug/l
 RT: 14.306 min Scan# 21
 Delta R.T. -0.418 min
 Lab File: VN081824.D
 Acq: 22 Apr 2024 13:22

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 406
 Ion Ratio Lower Upper
 75 100
 155 0.0 61.7 92.5#
 157 0.0 83.6 125.4#

