

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
 Data File : VN076695.D
 Acq On : 15 Feb 2023 19:16
 Operator : JC\MD
 Sample : 01547-04 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 16 04:35:56 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 16 01:08:46 2023
 Response via : Initial Calibration

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

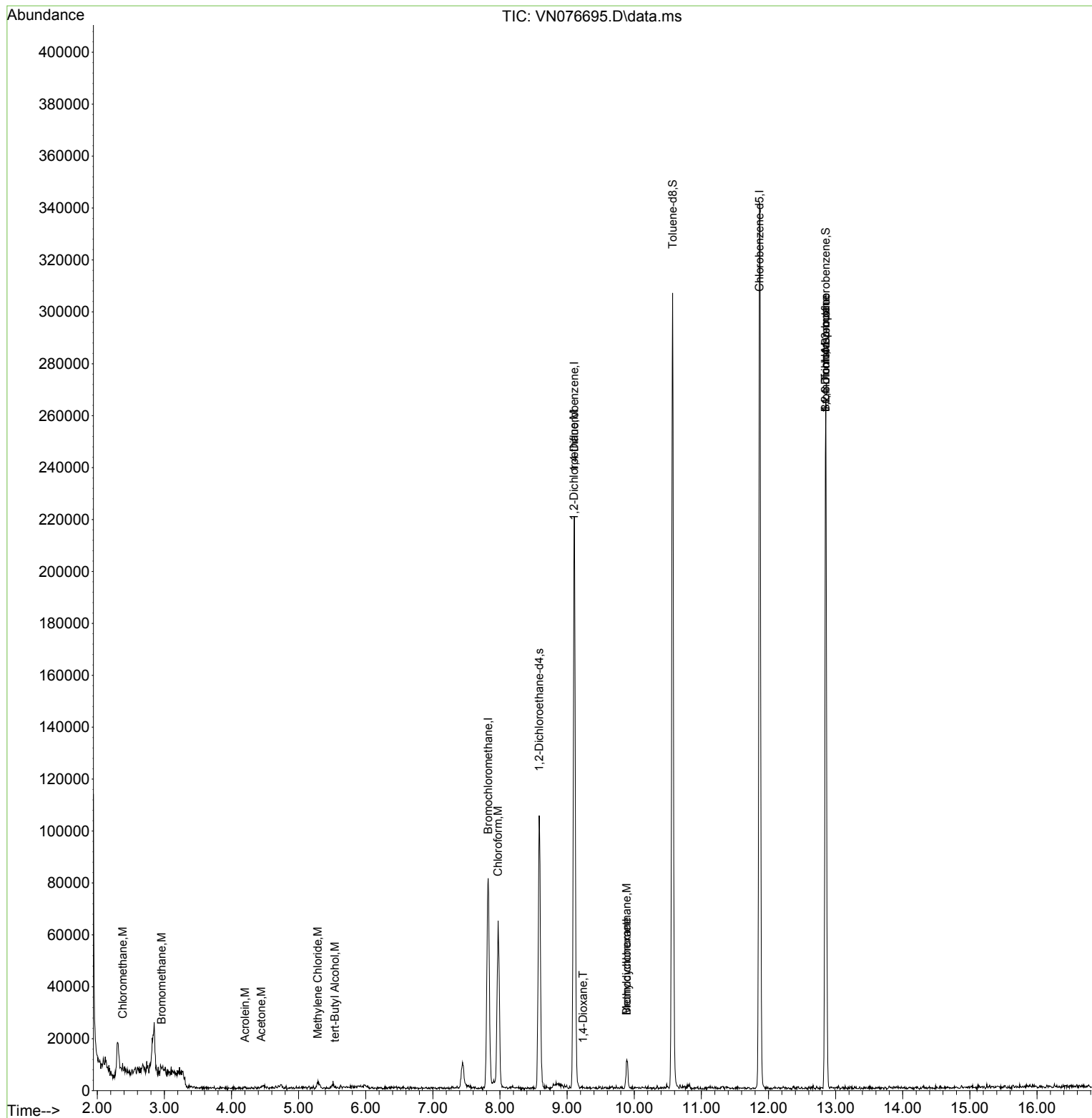
Internal Standards						
1) Bromochloromethane	7.825	128	25963	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	178812	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	192758	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	80511	33.905	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	113.000%#
60) 4-Bromofluorobenzene	12.854	95	85076	24.953	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.167%
63) Toluene-d8	10.572	98	200720	29.729	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.100%
Target Compounds						
					Qvalue	
3) Chloromethane	2.378	50	682	0.202	ug/l #	56
5) Bromomethane	2.960	94	566	0.228	ug/l #	55
13) Acrolein	4.201	56	229	0.367	ug/l #	15
15) Acetone	4.443	58	235	0.450	ug/l #	1
18) Methylene Chloride	5.284	84	1109	0.343	ug/l #	46
23) tert-Butyl Alcohol	5.542	59	282	0.605	ug/l #	100
25) Chloroform	7.972	83	57142	10.272	ug/l	93
36) 1,2-Dichloroethane	9.101	62	7056	1.619	ug/l #	75
38) Methylcyclohexane	9.889	83	7467	1.455	ug/l #	18
41) Bromodichloromethane	9.889	83	7467	1.725	ug/l	93
45) 1,4-Dioxane	9.236	88	149	2.359	ug/l #	15
56) Bromoform	12.848	173	471	0.212	ug/l #	1
72) 1,2,3-Trichloropropane	12.848	75	46748	11.521	ug/l	1
77) t-1,4-Dichloro-2-butene	12.848	75	46748	35.858	ug/l #	9

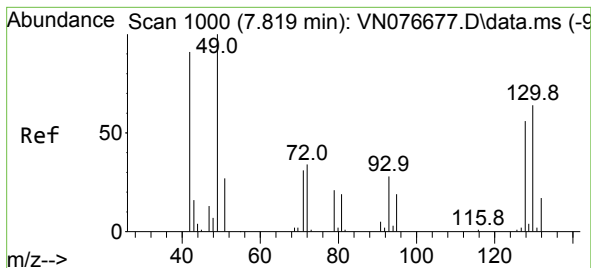
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
Data File : VN076695.D
Acq On : 15 Feb 2023 19:16
Operator : JC\MD
Sample : 01547-04 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Feb 16 04:35:56 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Feb 16 01:08:46 2023
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.825 min Scan# 10

Delta R.T. 0.006 min

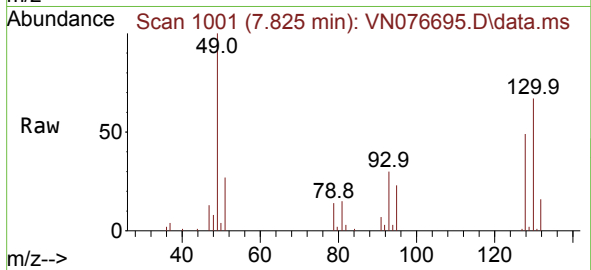
Lab File: VN076695.D

Acq: 15 Feb 2023 19:16

Instrument :

MSVOA_N

ClientSampleId :



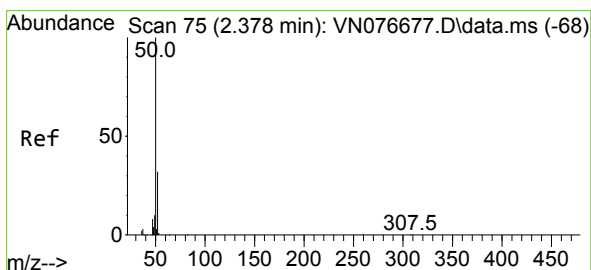
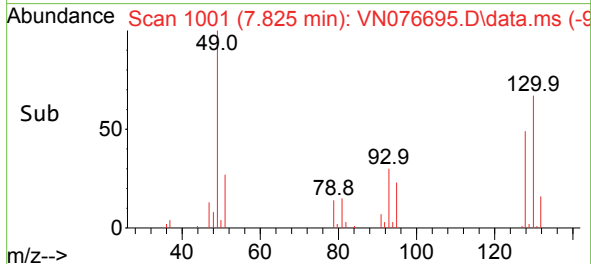
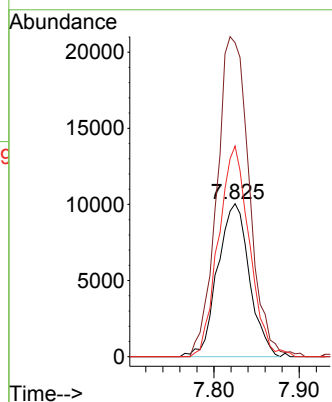
Tgt Ion:128 Resp: 25963

Ion Ratio Lower Upper

128 100

49 212.3 0.0 461.8

130 132.9 0.0 295.3



#3

Chloromethane

Concen: 0.202 ug/l

RT: 2.378 min Scan# 75

Delta R.T. -0.000 min

Lab File: VN076695.D

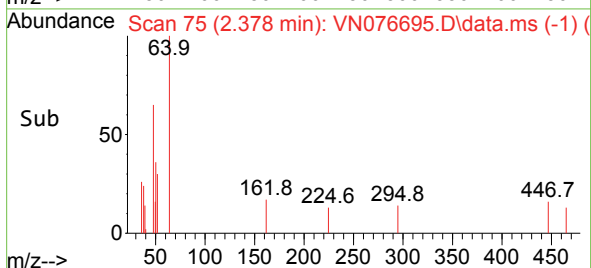
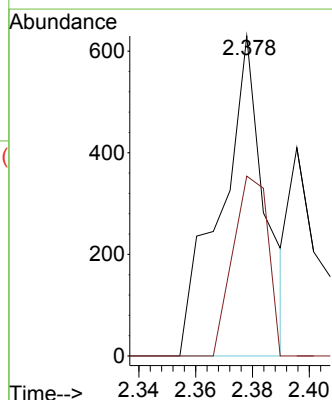
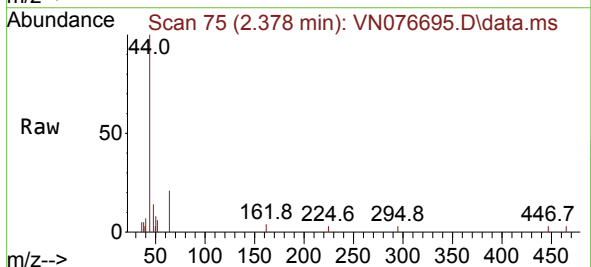
Acq: 15 Feb 2023 19:16

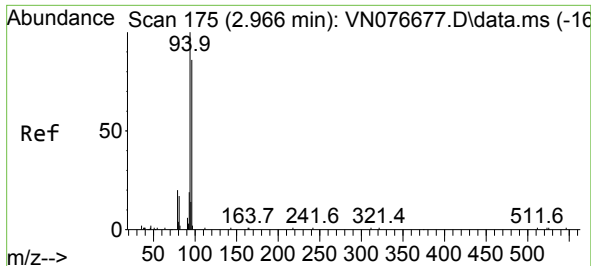
Tgt Ion: 50 Resp: 682

Ion Ratio Lower Upper

50 100

52 56.2 25.3 37.9#

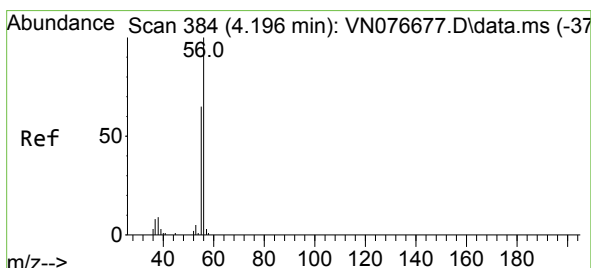
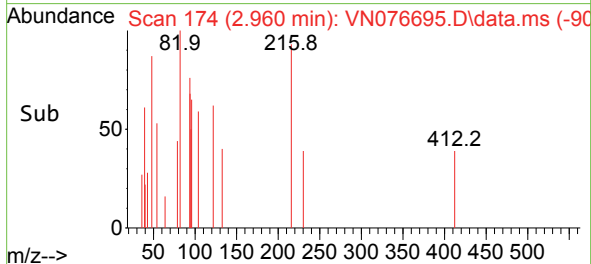
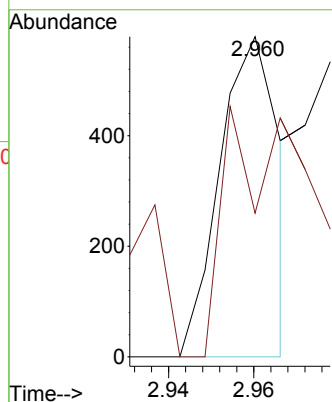
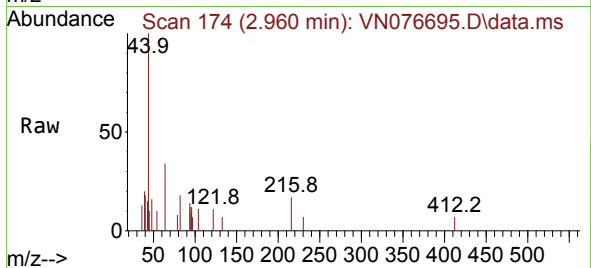




#5
Bromomethane
Concen: 0.228 ug/l
RT: 2.960 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN076695.D
Acq: 15 Feb 2023 19:16

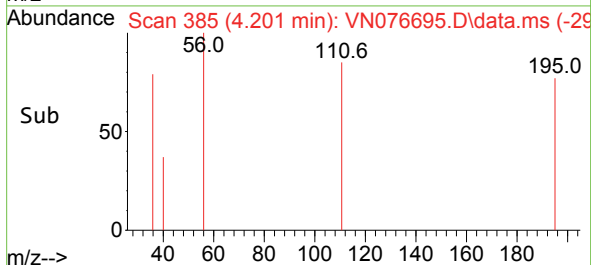
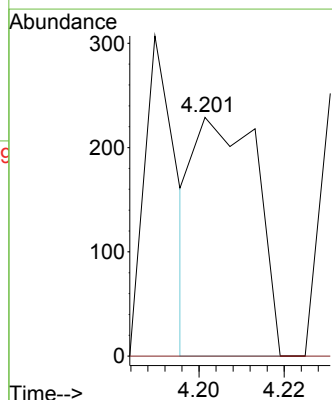
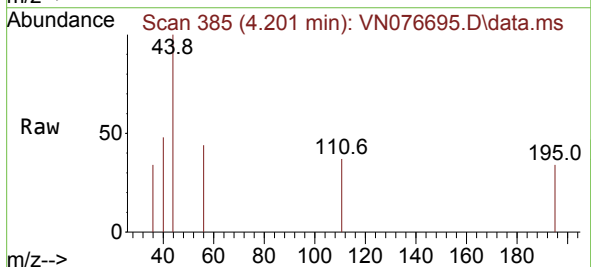
Instrument :
MSVOA_N
ClientSampleId :

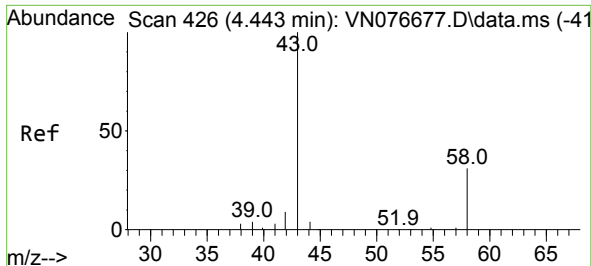
Tgt Ion: 94 Resp: 566
Ion Ratio Lower Upper
94 100
96 44.9 68.6 103.0#



#13
Acrolein
Concen: 0.367 ug/l
RT: 4.201 min Scan# 385
Delta R.T. 0.006 min
Lab File: VN076695.D
Acq: 15 Feb 2023 19:16

Tgt Ion: 56 Resp: 229
Ion Ratio Lower Upper
56 100
55 0.0 55.0 82.4#





#15

Acetone

Concen: 0.450 ug/l

RT: 4.443 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN076695.D

Acq: 15 Feb 2023 19:16

Instrument :

MSVOA_N

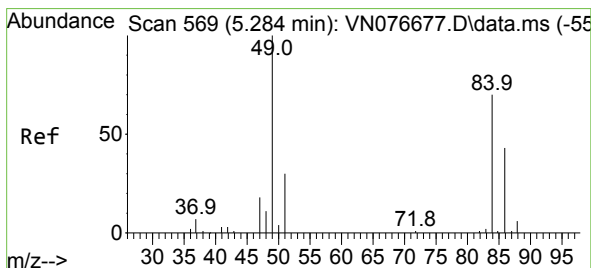
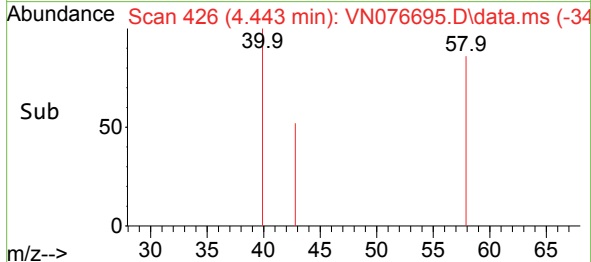
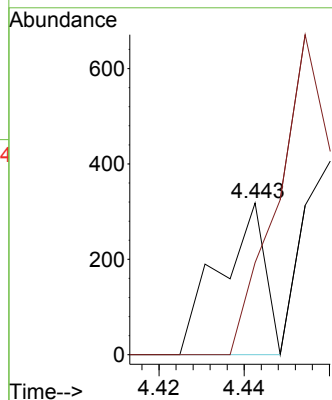
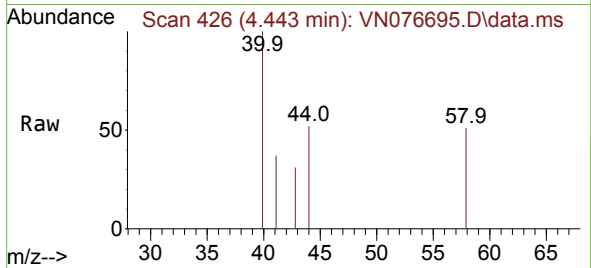
ClientSampleId :

Tgt Ion: 58 Resp: 235

Ion Ratio Lower Upper

58 100

43 60.7 255.4 383.0#



#18

Methylene Chloride

Concen: 0.343 ug/l

RT: 5.284 min Scan# 569

Delta R.T. -0.000 min

Lab File: VN076695.D

Acq: 15 Feb 2023 19:16

Tgt Ion: 84 Resp: 1109

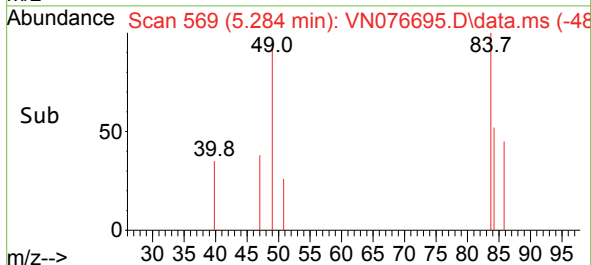
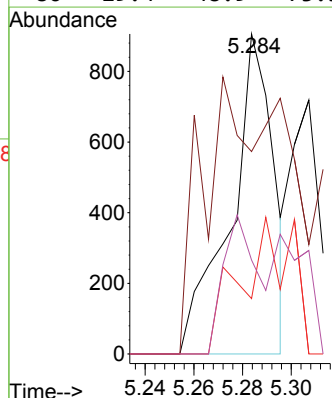
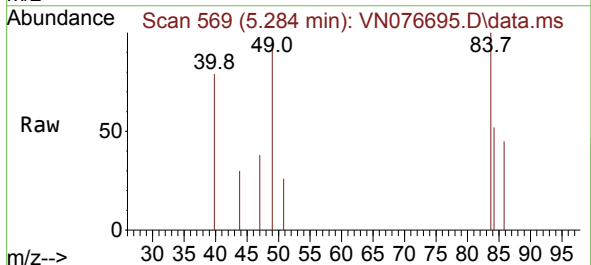
Ion Ratio Lower Upper

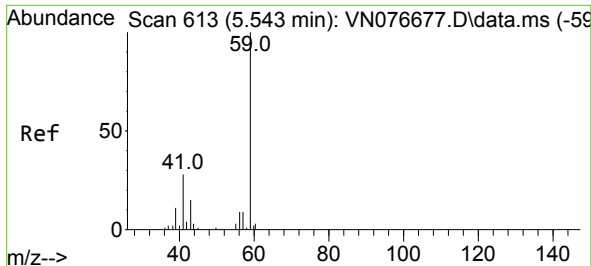
84 100

49 63.2 113.8 170.6#

51 17.3 34.2 51.4#

86 29.4 48.9 73.3#

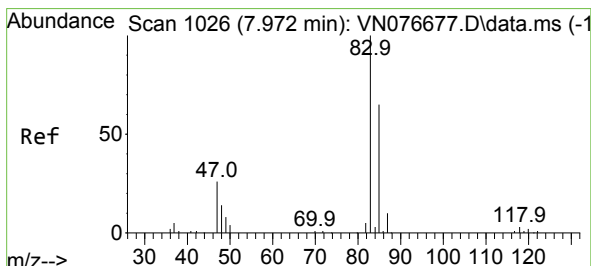
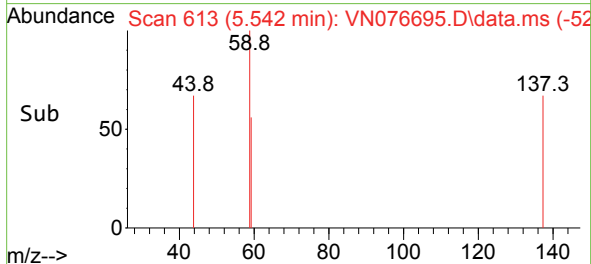
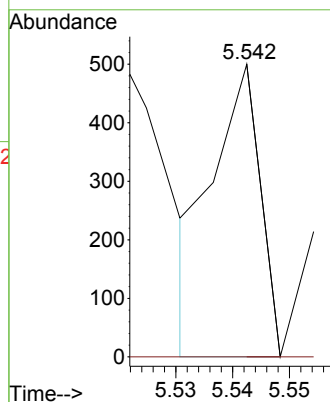
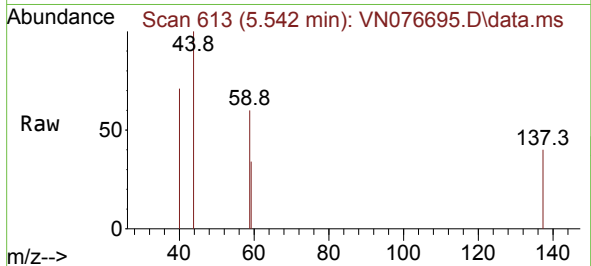




#23
tert-Butyl Alcohol
Concen: 0.605 ug/l
RT: 5.542 min Scan# 613
Delta R.T. -0.000 min
Lab File: VN076695.D
Acq: 15 Feb 2023 19:16

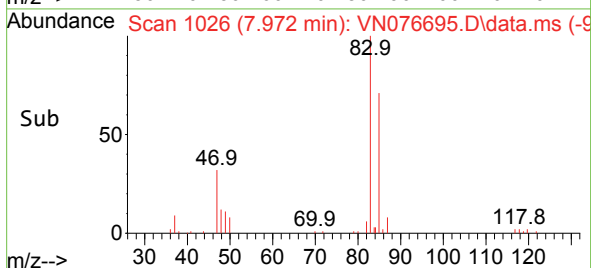
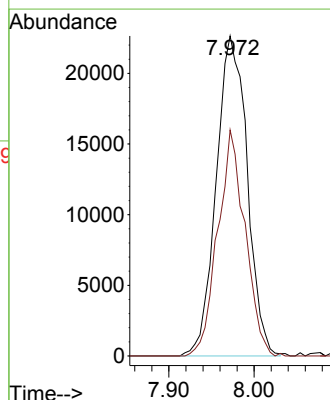
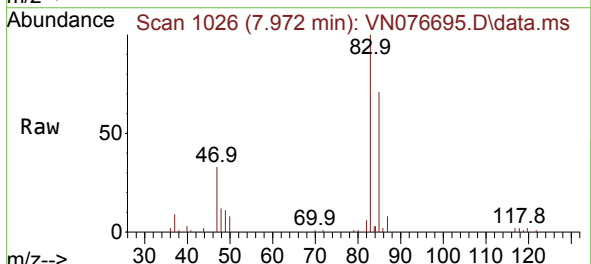
Instrument :
MSVOA_N
ClientSampleId :

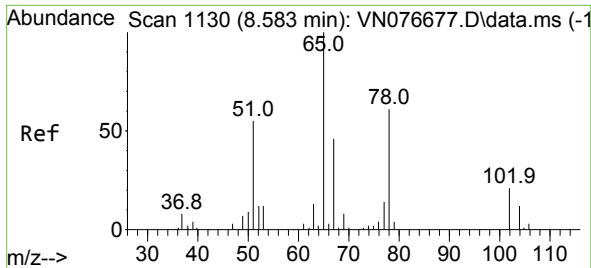
Tgt Ion: 59 Resp: 282
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.2#



#25
Chloroform
Concen: 10.272 ug/l
RT: 7.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: VN076695.D
Acq: 15 Feb 2023 19:16

Tgt Ion: 83 Resp: 57142
Ion Ratio Lower Upper
83 100
85 70.6 51.8 77.6

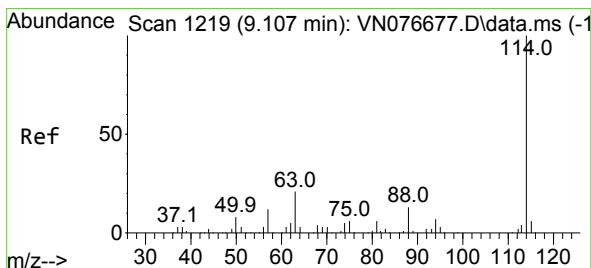
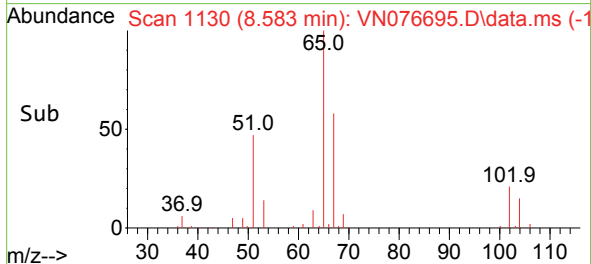
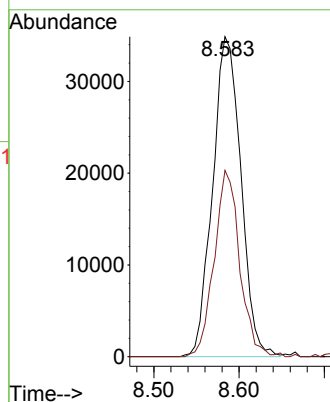
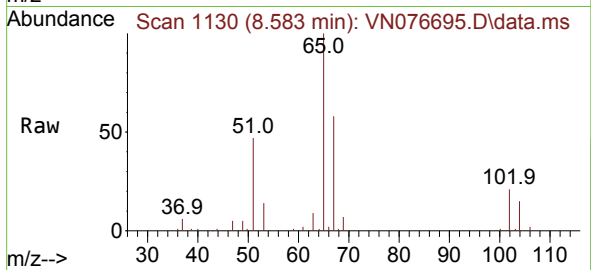




#27
 1,2-Dichloroethane-d4
 Concen: 33.905 ug/l
 RT: 8.583 min Scan# 1130
 Delta R.T. -0.000 min
 Lab File: VN076695.D
 Acq: 15 Feb 2023 19:16

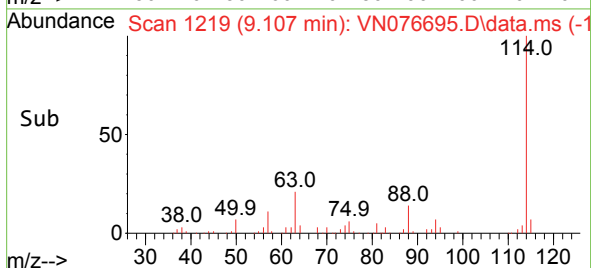
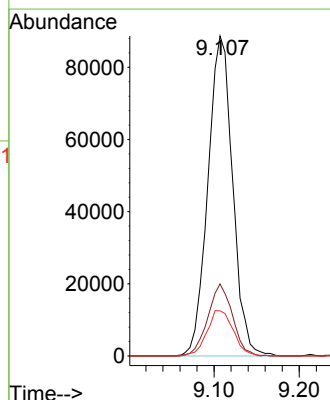
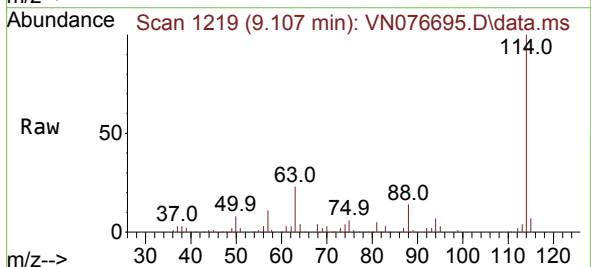
Instrument :
 MSVOA_N
 ClientSampleId :

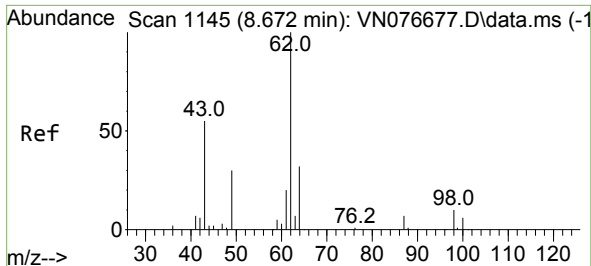
Tgt Ion: 65 Resp: 80511
 Ion Ratio Lower Upper
 65 100
 67 52.3 40.9 61.3



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.107 min Scan# 1219
 Delta R.T. -0.000 min
 Lab File: VN076695.D
 Acq: 15 Feb 2023 19:16

Tgt Ion: 114 Resp: 178812
 Ion Ratio Lower Upper
 114 100
 63 22.4 17.0 25.4
 88 15.1 11.6 17.4





#36

1,2-Dichloroethane

Concen: 1.619 ug/l

RT: 9.101 min Scan# 1145

Delta R.T. 0.429 min

Lab File: VN076695.D

Acq: 15 Feb 2023 19:16

Instrument :

MSVOA_N

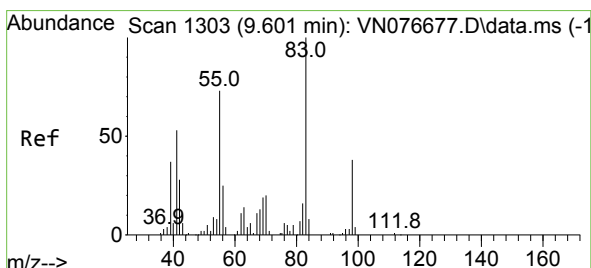
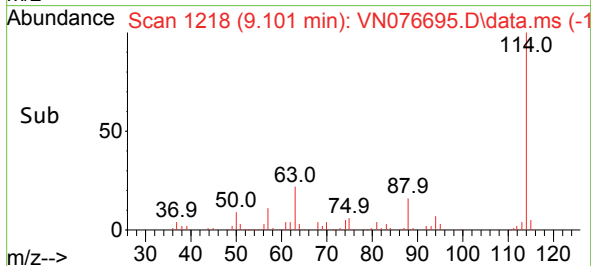
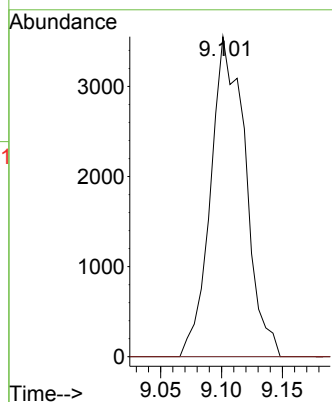
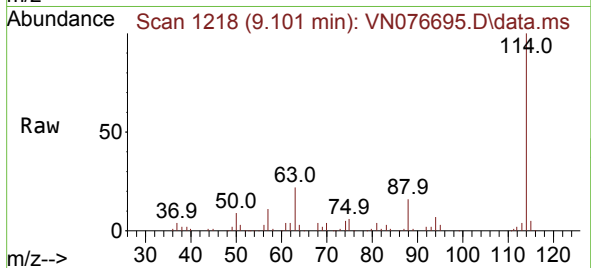
ClientSampleId :

Tgt Ion: 62 Resp: 7056

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#



#38

Methylcyclohexane

Concen: 1.455 ug/l

RT: 9.889 min Scan# 1352

Delta R.T. 0.288 min

Lab File: VN076695.D

Acq: 15 Feb 2023 19:16

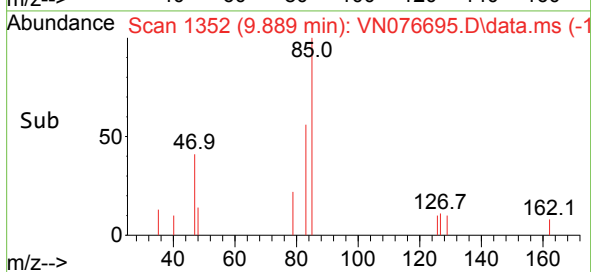
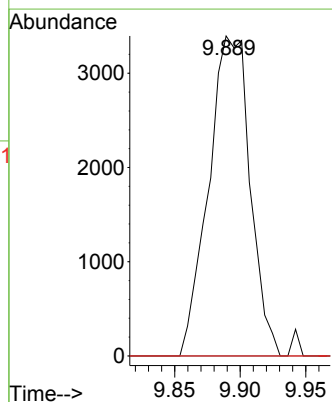
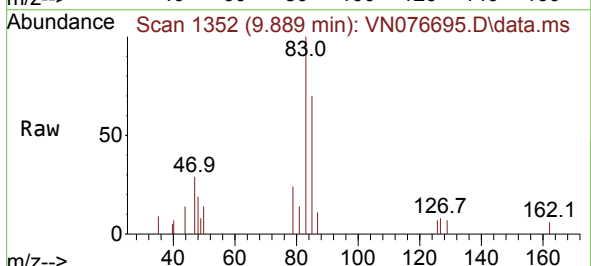
Tgt Ion: 83 Resp: 7467

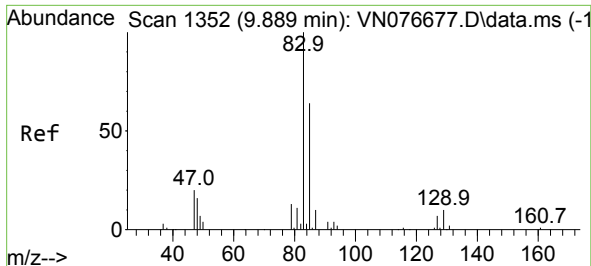
Ion Ratio Lower Upper

83 100

55 0.0 37.6 112.9#

98 0.0 24.1 72.4#

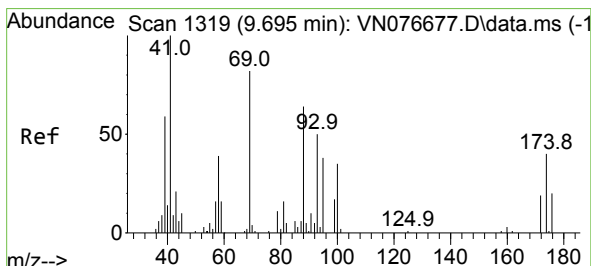
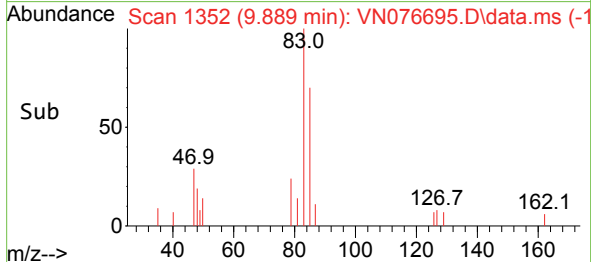
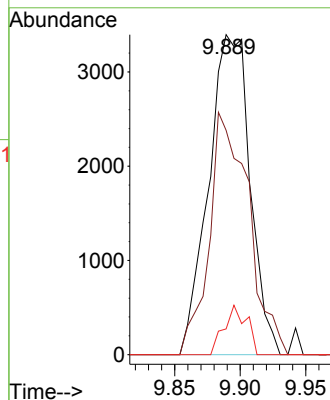
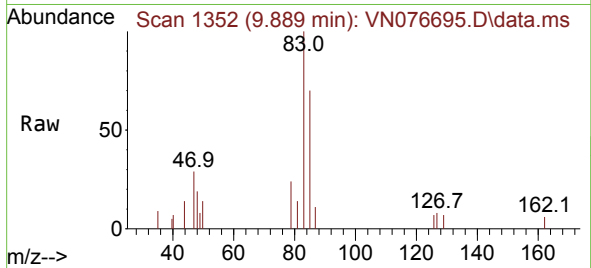




#41
Bromodichloromethane
Concen: 1.725 ug/l
RT: 9.889 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN076695.D
Acq: 15 Feb 2023 19:16

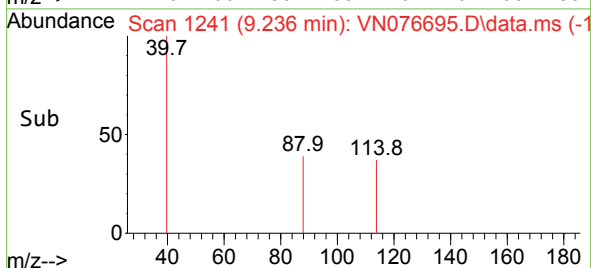
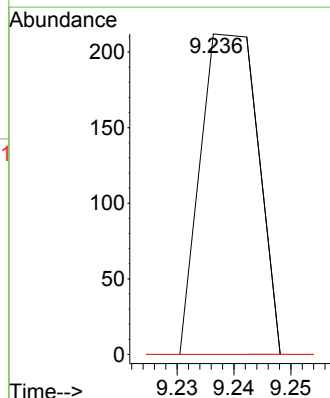
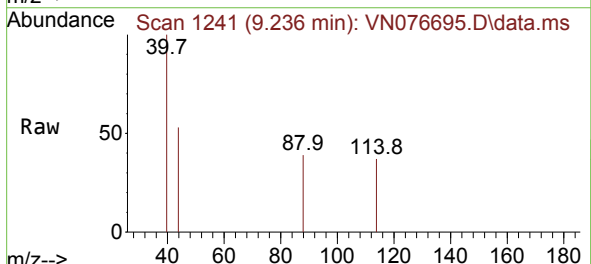
Instrument :
MSVOA_N
ClientSampleId :

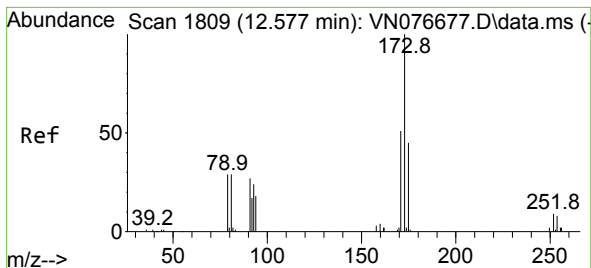
Tgt Ion: 83 Resp: 7467
Ion Ratio Lower Upper
83 100
85 70.1 51.0 76.4
127 8.0 6.2 9.2



#45
1,4-Dioxane
Concen: 2.359 ug/l
RT: 9.236 min Scan# 1241
Delta R.T. -0.459 min
Lab File: VN076695.D
Acq: 15 Feb 2023 19:16

Tgt Ion: 88 Resp: 149
Ion Ratio Lower Upper
88 100
43 81.2 26.0 39.0#
58 0.0 54.3 81.5#





#56

Bromoform

Concen: 0.212 ug/l

RT: 12.848 min Scan# 1809

Delta R.T. 0.271 min

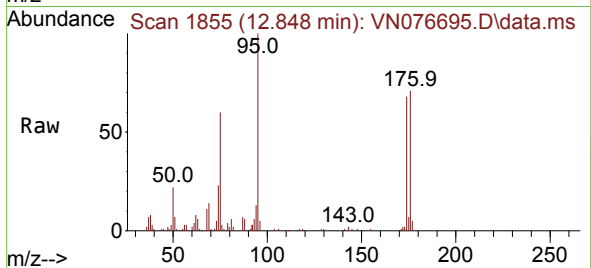
Lab File: VN076695.D

Acq: 15 Feb 2023 19:16

Instrument :

MSVOA_N

ClientSampleId :



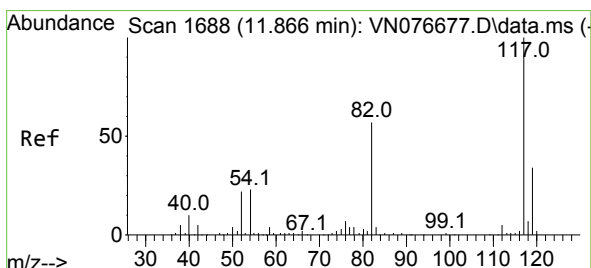
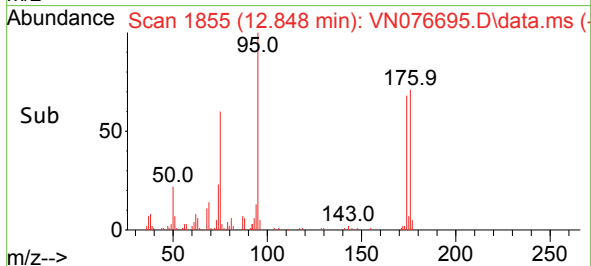
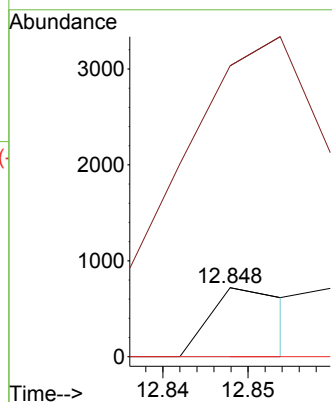
Tgt Ion:173 Resp: 471

Ion Ratio Lower Upper

173 100

175 1112.1 37.8 56.6#

254 0.0 7.3 10.9#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.866 min Scan# 1688

Delta R.T. -0.000 min

Lab File: VN076695.D

Acq: 15 Feb 2023 19:16

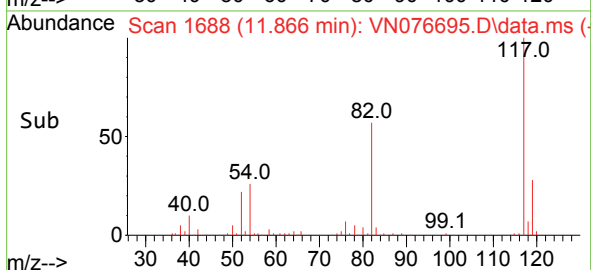
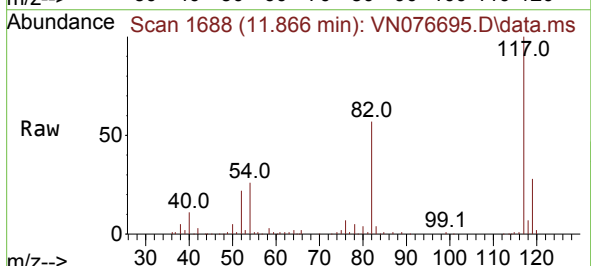
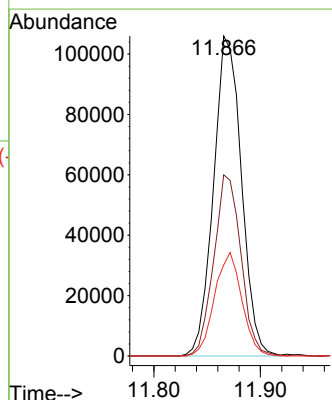
Tgt Ion:117 Resp: 192758

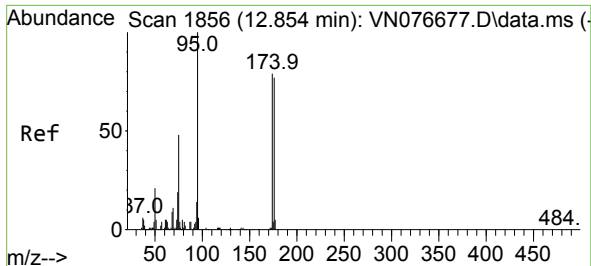
Ion Ratio Lower Upper

117 100

82 55.0 45.4 68.0

119 31.6 26.8 40.2

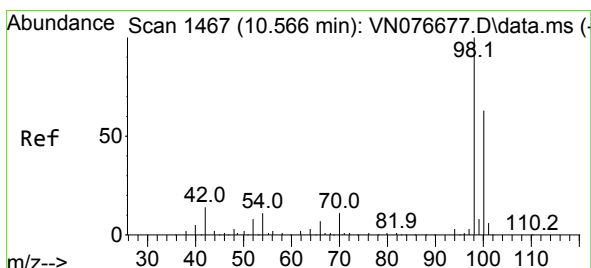
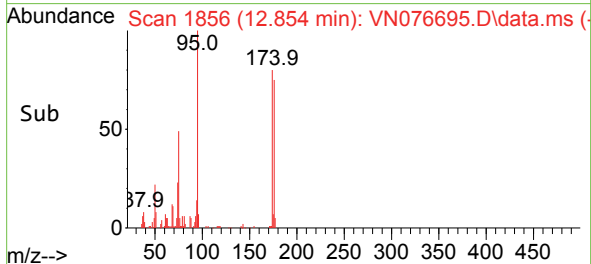
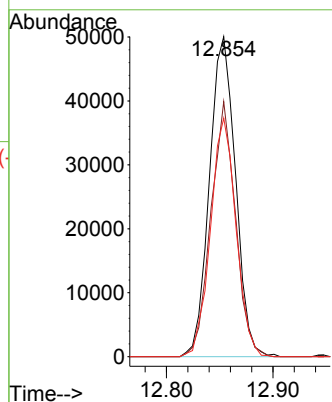
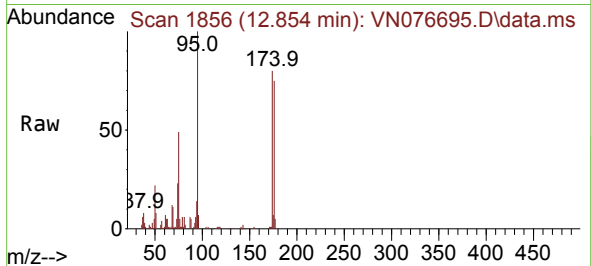




#60
4-Bromofluorobenzene
Concen: 24.953 ug/l
RT: 12.854 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN076695.D
Acq: 15 Feb 2023 19:16

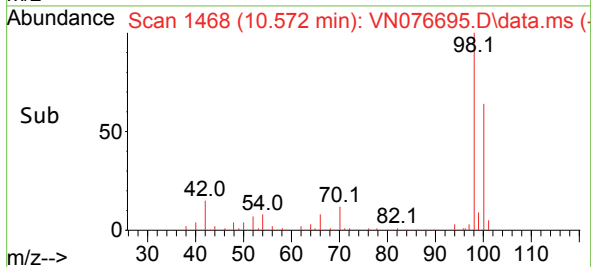
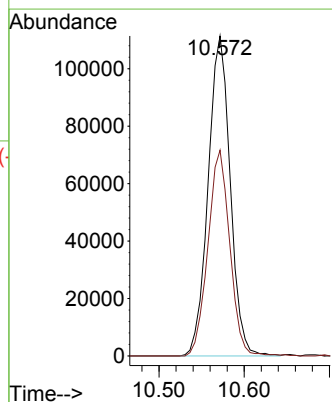
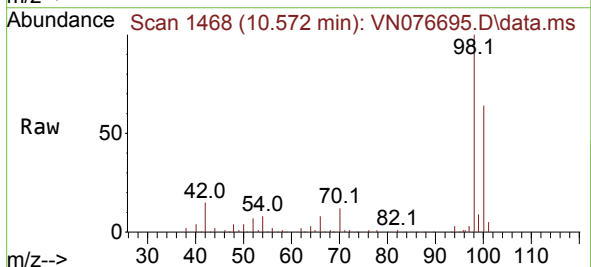
Instrument :
MSVOA_N
ClientSampleId :

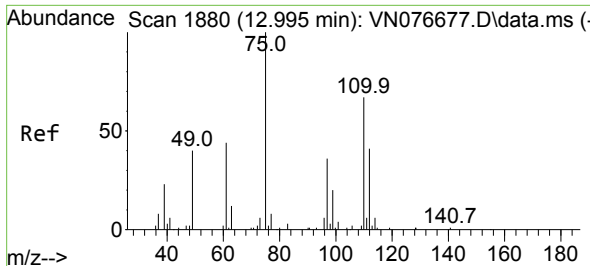
Tgt Ion: 95 Resp: 85076
Ion Ratio Lower Upper
95 100
174 75.2 64.2 96.4
176 73.0 61.4 92.0



#63
Toluene-d8
Concen: 29.729 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN076695.D
Acq: 15 Feb 2023 19:16

Tgt Ion: 98 Resp: 200720
Ion Ratio Lower Upper
98 100
100 63.2 53.8 80.6

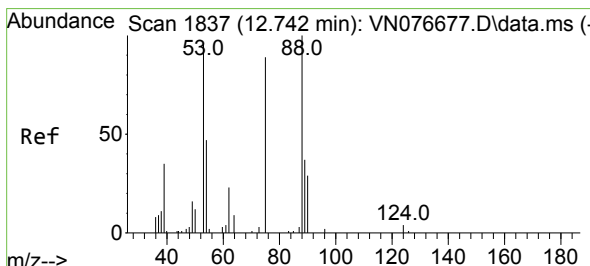
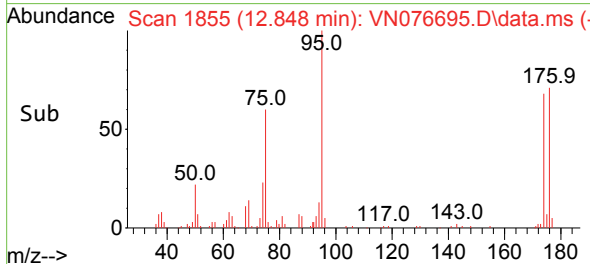
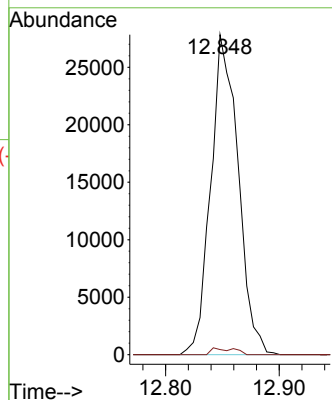
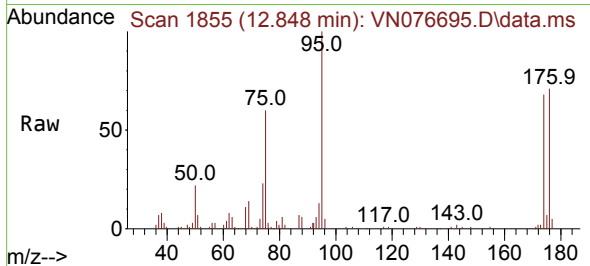




#72
1,2,3-Trichloropropane
Concen: 11.521 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.147 min
Lab File: VN076695.D
Acq: 15 Feb 2023 19:16

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 46748
Ion Ratio Lower Upper
75 100
77 1.1 0.0 332.6



#77
t-1,4-Dichloro-2-butene
Concen: 35.858 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.106 min
Lab File: VN076695.D
Acq: 15 Feb 2023 19:16

Tgt Ion: 75 Resp: 46748
Ion Ratio Lower Upper
75 100
53 0.0 50.4 151.3#
89 0.0 22.1 66.5#

