

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
 Data File : VN076691.D
 Acq On : 15 Feb 2023 17:40
 Operator : JC\MD
 Sample : 01535-04 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 16 04:34:22 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)

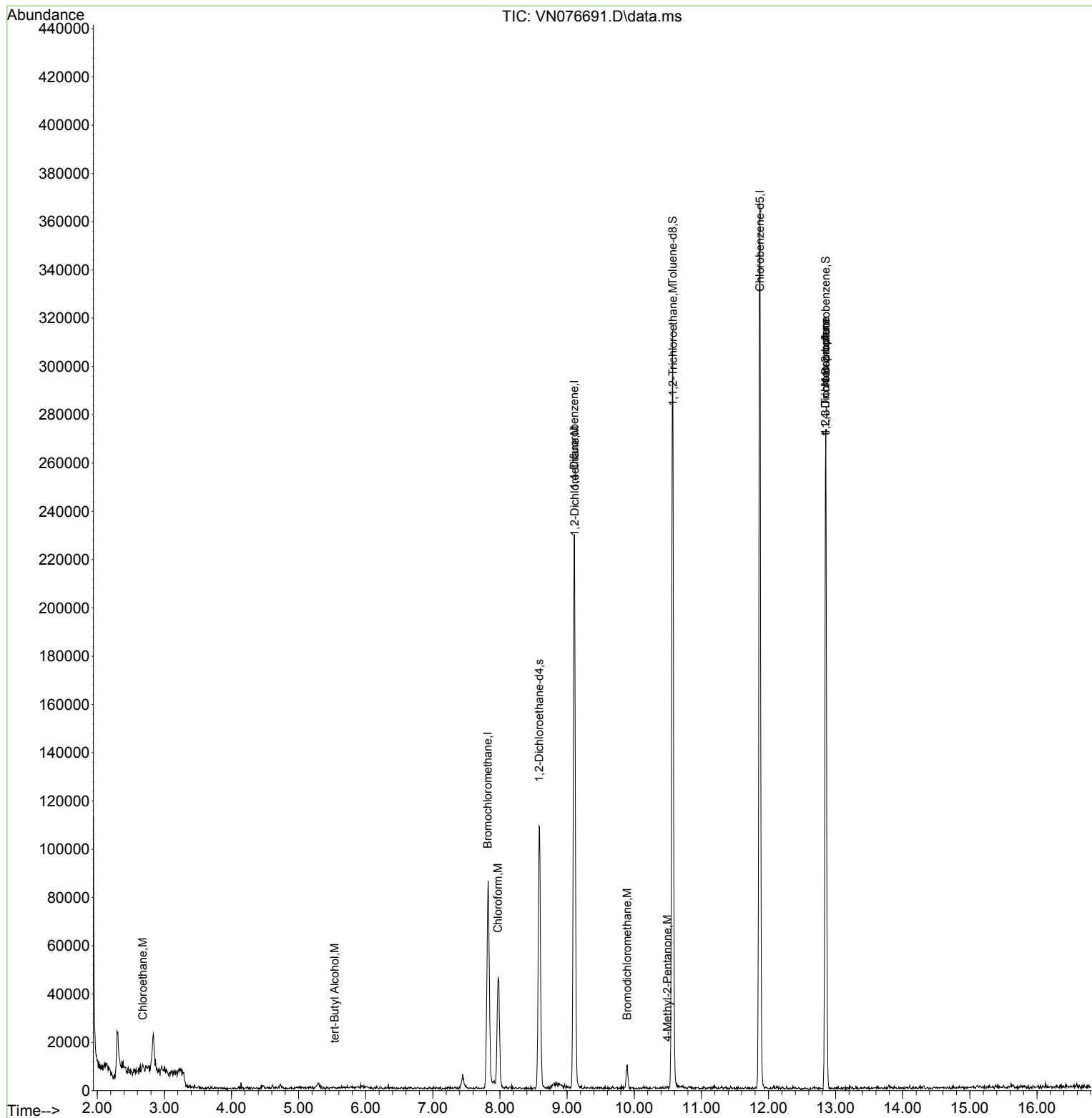
Internal Standards						
1) Bromochloromethane	7.819	128	28596	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	187220	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	204064	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	86183	32.952	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 109.833%			
60) 4-Bromofluorobenzene	12.854	95	87935	24.362	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 81.200%			
63) Toluene-d8	10.571	98	207858	29.080	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.933%			
Target Compounds						
					Qvalue	
6) Chloroethane	2.678	64	620	0.241	ug/l	99
23) tert-Butyl Alcohol	5.536	59	286	0.557	ug/l #	100
25) Chloroform	7.972	83	43891	7.164	ug/l	100
36) 1,2-Dichloroethane	9.113	62	7177	1.573	ug/l #	75
41) Bromodichloromethane	9.895	83	5732	1.265	ug/l #	81
50) 1,1,2-Trichloroethane	10.577	97	7352	2.238	ug/l #	1
58) 4-Methyl-2-Pentanone	10.495	43	1151	0.237	ug/l #	46
72) 1,2,3-Trichloropropane	12.848	75	49351	11.489	ug/l	1
77) t-1,4-Dichloro-2-butene	12.848	75	49351	35.758	ug/l #	9

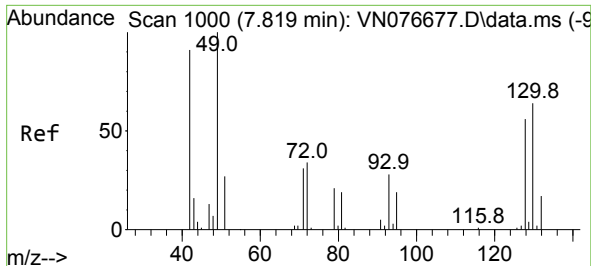
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

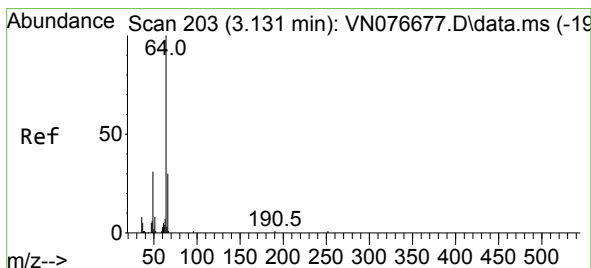
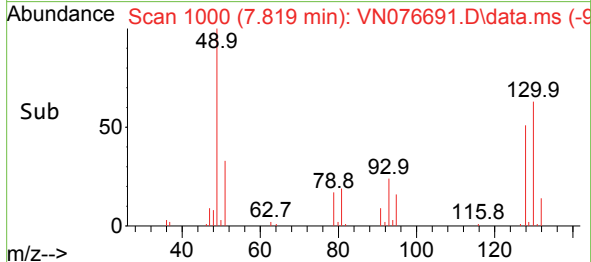
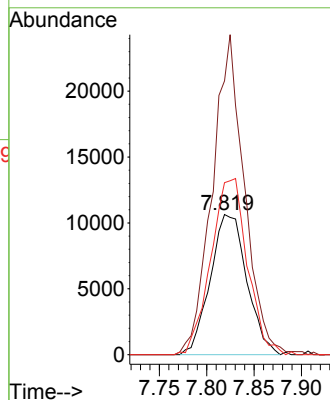
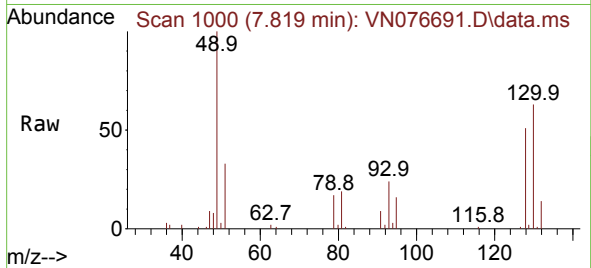




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.819 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN076691.D
Acq: 15 Feb 2023 17:40

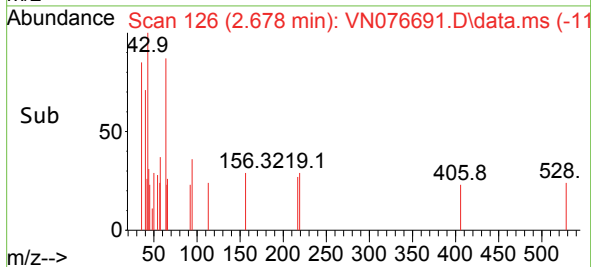
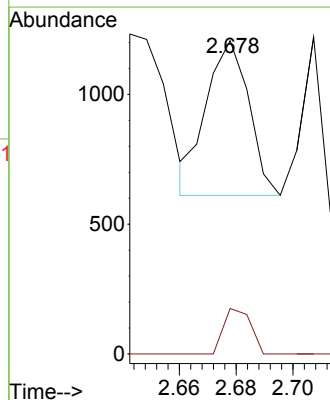
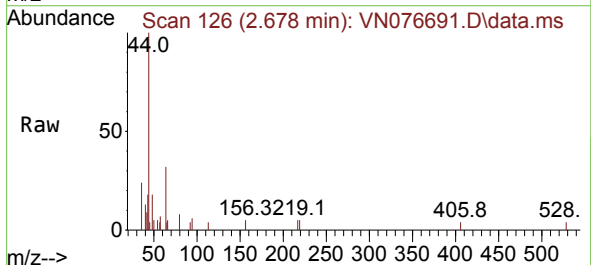
Instrument :
MSVOA_N
ClientSampleId :

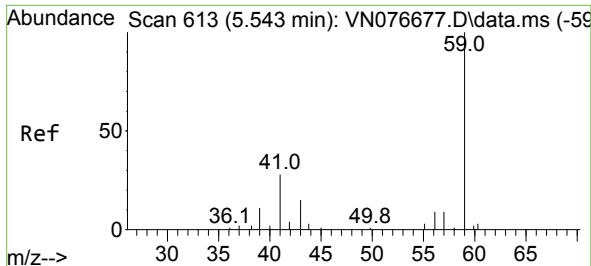
Tgt Ion:128 Resp: 28596
Ion Ratio Lower Upper
128 100
49 199.9 0.0 461.8
130 124.8 0.0 295.3



#6
Chloroethane
Concen: 0.241 ug/l
RT: 2.678 min Scan# 126
Delta R.T. -0.453 min
Lab File: VN076691.D
Acq: 15 Feb 2023 17:40

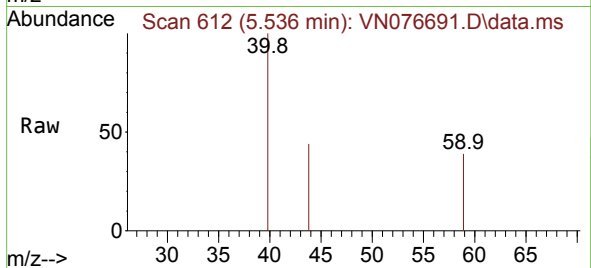
Tgt Ion: 64 Resp: 620
Ion Ratio Lower Upper
64 100
66 29.4 23.8 35.6



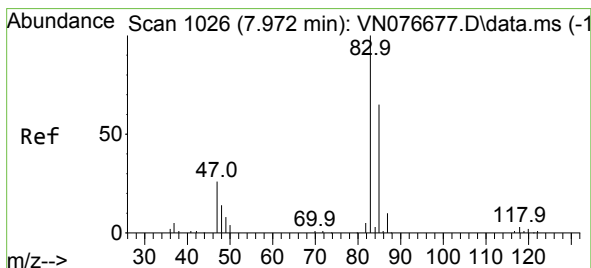
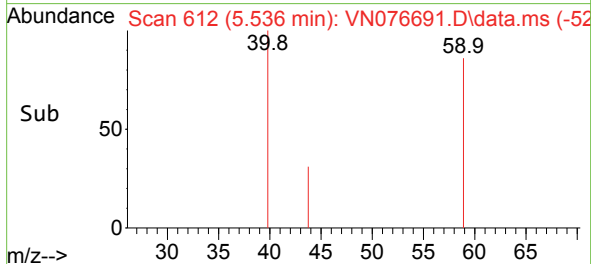
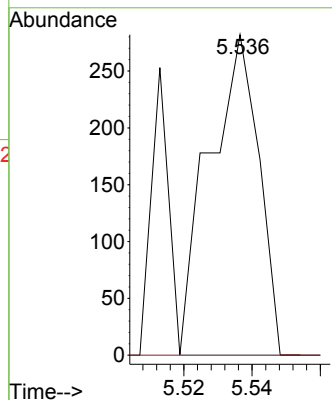


#23
tert-Butyl Alcohol
Concen: 0.557 ug/l
RT: 5.536 min Scan# 613
Delta R.T. -0.006 min
Lab File: VN076691.D
Acq: 15 Feb 2023 17:40

Instrument :
MSVOA_N
ClientSampleId :

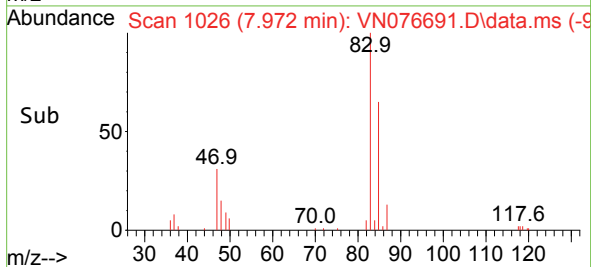
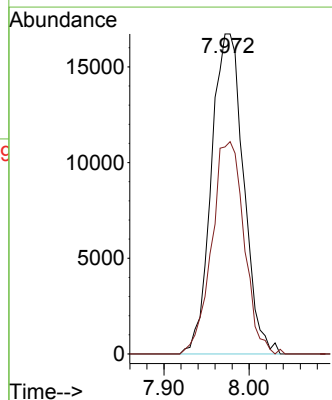
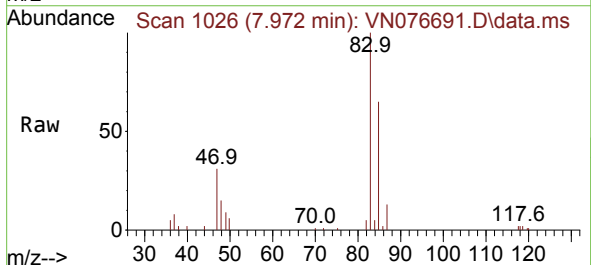


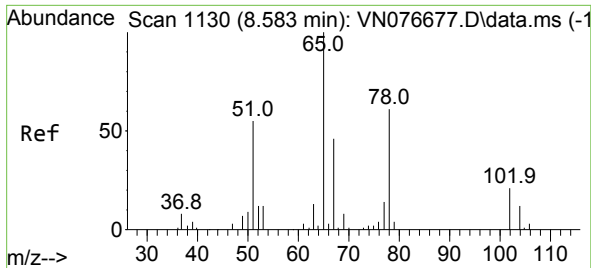
Tgt Ion: 59 Resp: 286
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.2#



#25
Chloroform
Concen: 7.164 ug/l
RT: 7.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: VN076691.D
Acq: 15 Feb 2023 17:40

Tgt Ion: 83 Resp: 43891
Ion Ratio Lower Upper
83 100
85 64.7 51.8 77.6





#27

1,2-Dichloroethane-d4

Concen: 32.952 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN076691.D

Acq: 15 Feb 2023 17:40

Instrument :

MSVOA_N

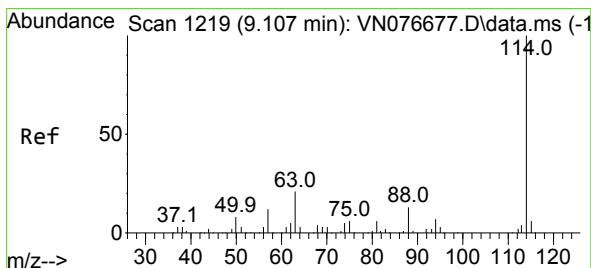
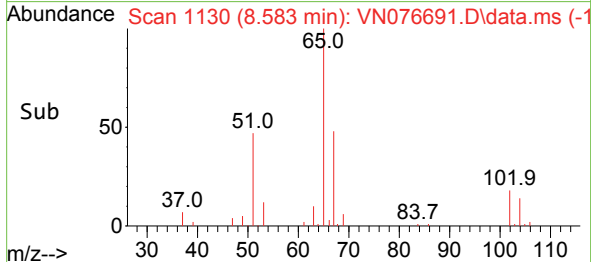
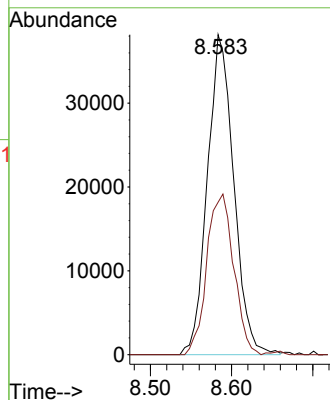
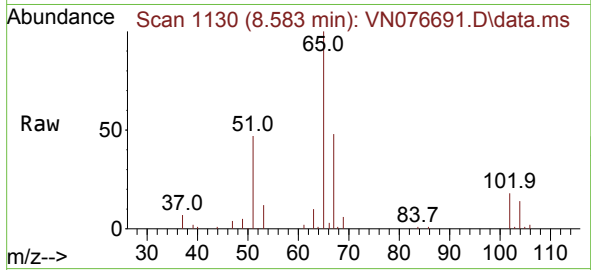
ClientSampleId :

Tgt Ion: 65 Resp: 86183

Ion Ratio Lower Upper

65 100

67 51.2 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: VN076691.D

Acq: 15 Feb 2023 17:40

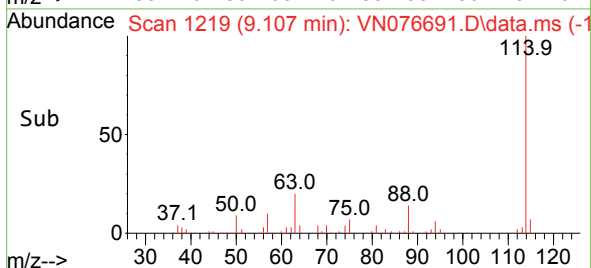
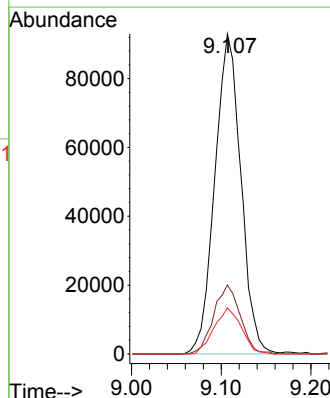
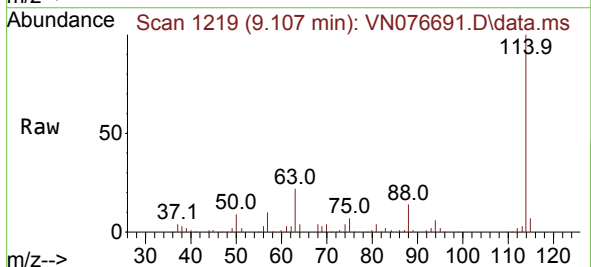
Tgt Ion: 114 Resp: 187220

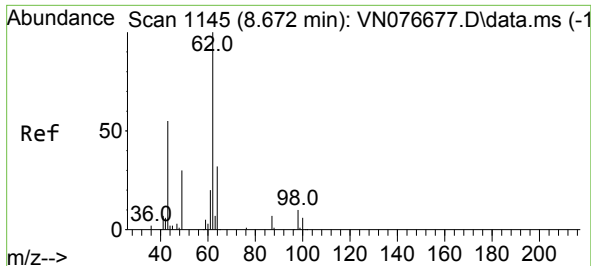
Ion Ratio Lower Upper

114 100

63 21.9 17.0 25.4

88 15.1 11.6 17.4





#36

1,2-Dichloroethane

Concen: 1.573 ug/l

RT: 9.113 min Scan# 1145

Delta R.T. 0.441 min

Lab File: VN076691.D

Acq: 15 Feb 2023 17:40

Instrument :

MSVOA_N

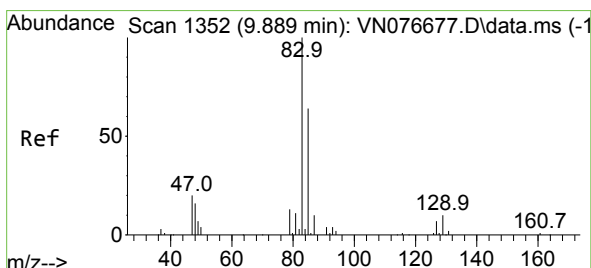
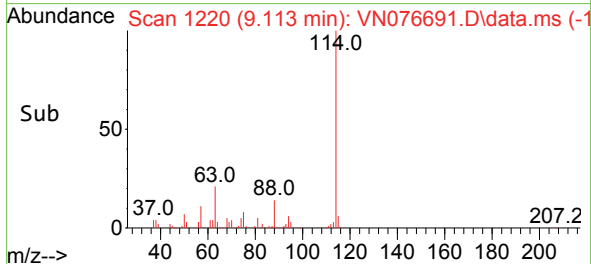
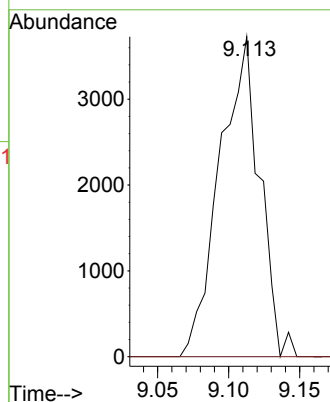
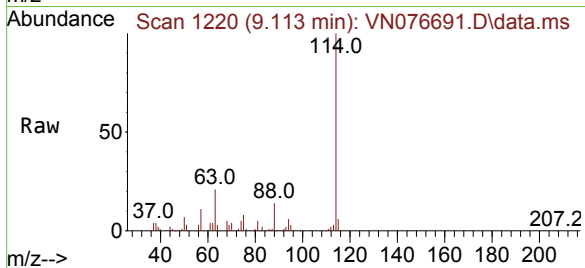
ClientSampleId :

Tgt Ion: 62 Resp: 7177

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#



#41

Bromodichloromethane

Concen: 1.265 ug/l

RT: 9.895 min Scan# 1353

Delta R.T. 0.006 min

Lab File: VN076691.D

Acq: 15 Feb 2023 17:40

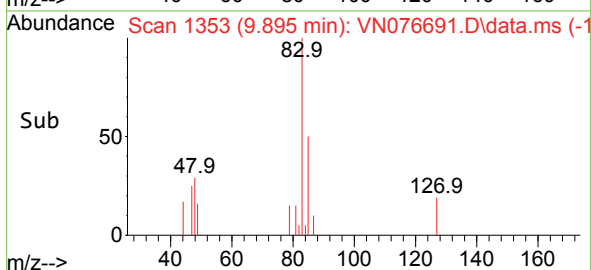
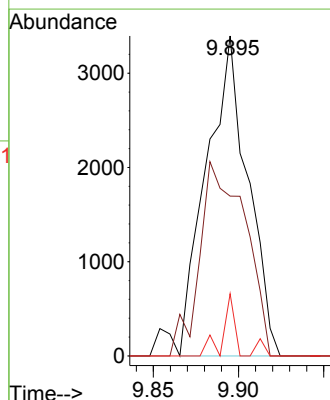
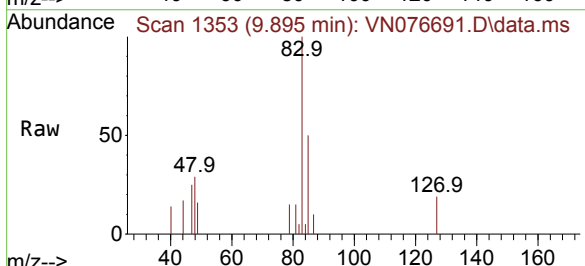
Tgt Ion: 83 Resp: 5732

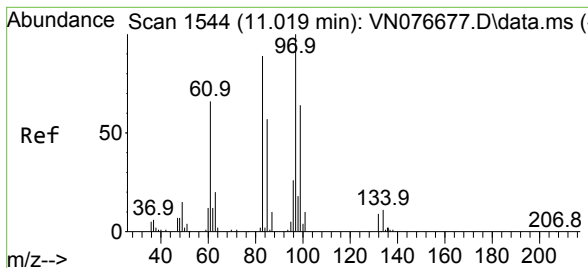
Ion Ratio Lower Upper

83 100

85 49.9 51.0 76.4#

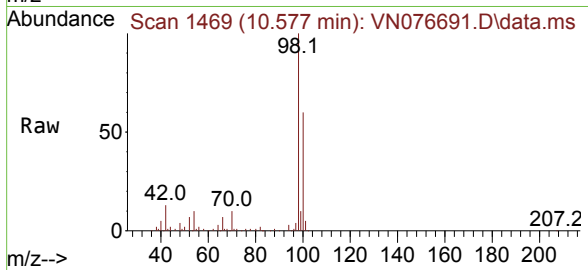
127 19.4 6.2 9.2#



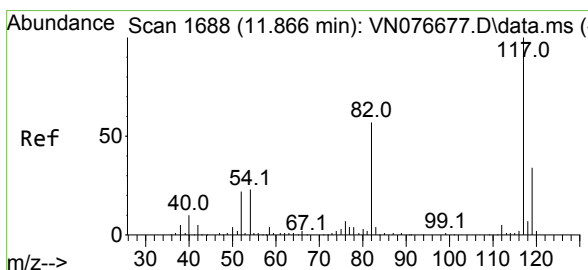
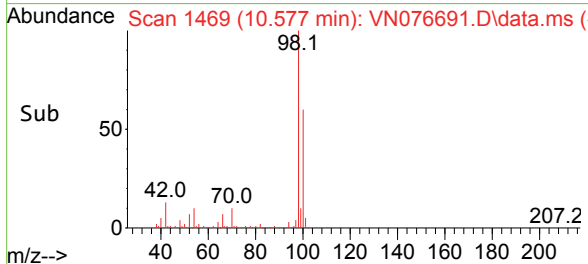
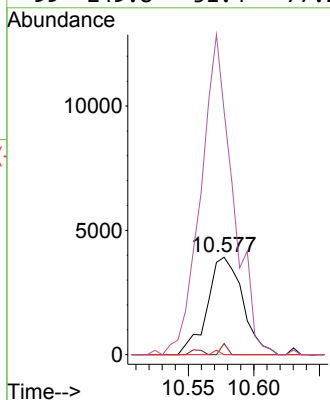


#50
1,1,2-Trichloroethane
Concen: 2.238 ug/l
RT: 10.577 min Scan# 1469
Delta R.T. -0.441 min
Lab File: VN076691.D
Acq: 15 Feb 2023 17:40

Instrument :
MSVOA_N
ClientSampleId :

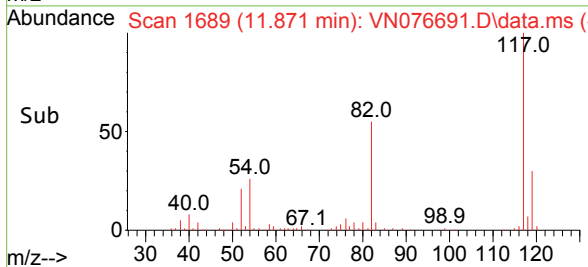
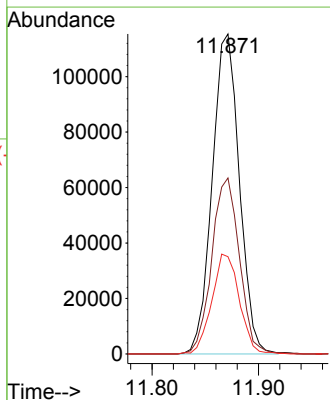
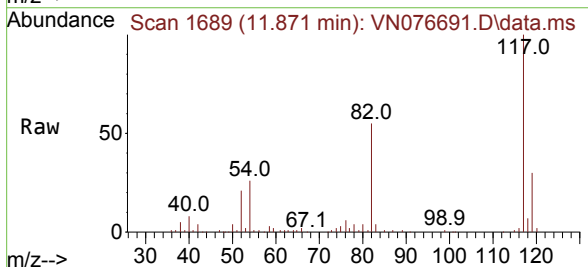


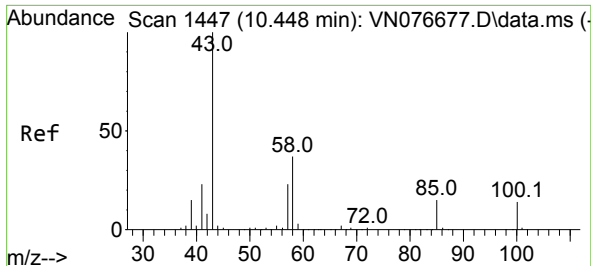
Tgt Ion: 97	Resp: 7352
Ion Ratio	Lower Upper
97	100
83	11.6 71.0 106.4#
85	0.0 45.5 68.3#
99	249.8 51.4 77.2#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN076691.D
Acq: 15 Feb 2023 17:40

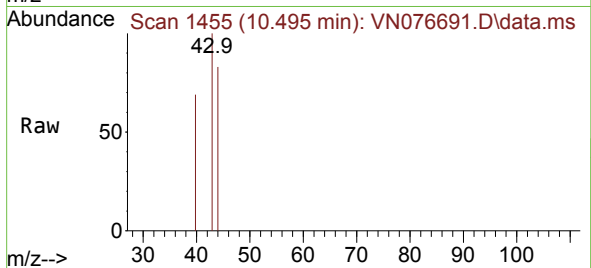
Tgt Ion: 117	Resp: 204064
Ion Ratio	Lower Upper
117	100
82	56.1 45.4 68.0
119	31.7 26.8 40.2



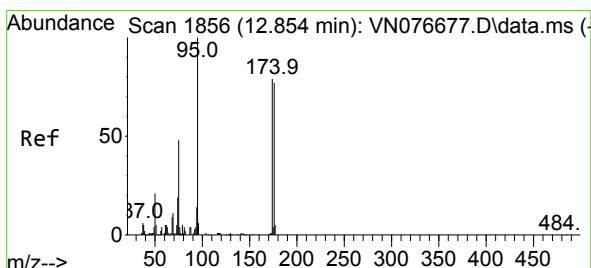
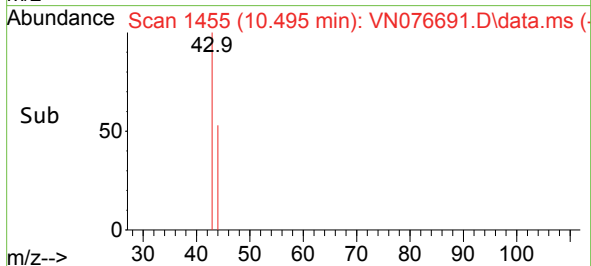
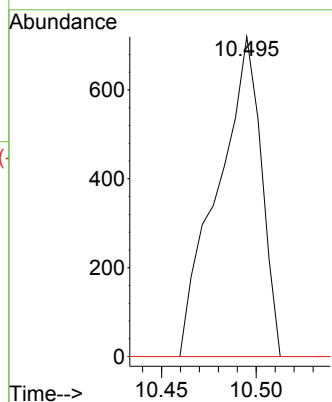


#58
 4-Methyl-2-Pentanone
 Concen: 0.237 ug/l
 RT: 10.495 min Scan# 1447
 Delta R.T. 0.047 min
 Lab File: VN076691.D
 Acq: 15 Feb 2023 17:40

Instrument :
 MSVOA_N
 ClientSampleId :

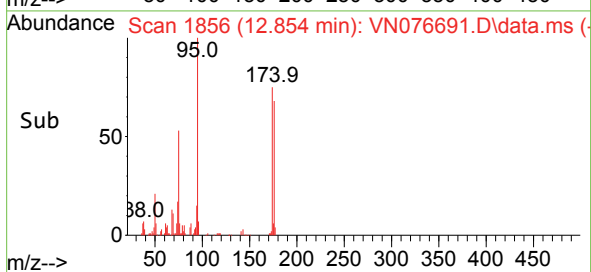
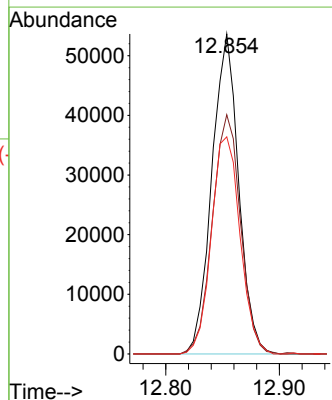
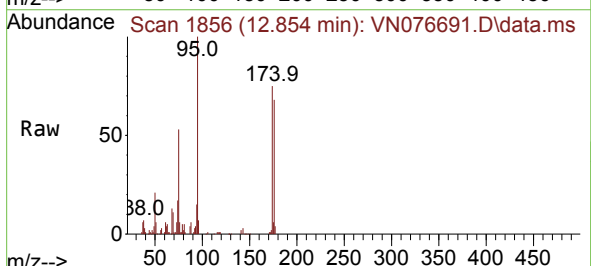


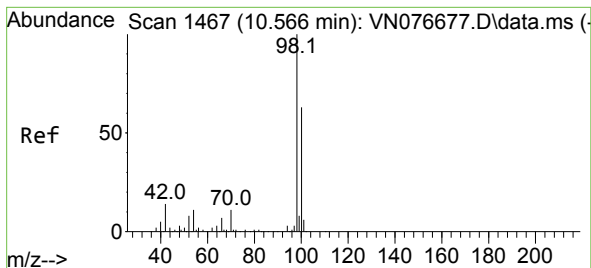
Tgt Ion: 43 Resp: 1151
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.6 42.8#
 85 0.0 11.8 17.8#



#60
 4-Bromofluorobenzene
 Concen: 24.362 ug/l
 RT: 12.854 min Scan# 1856
 Delta R.T. -0.000 min
 Lab File: VN076691.D
 Acq: 15 Feb 2023 17:40

Tgt Ion: 95 Resp: 87935
 Ion Ratio Lower Upper
 95 100
 174 78.5 64.2 96.4
 176 73.0 61.4 92.0





#63

Toluene-d8

Concen: 29.080 ug/l

RT: 10.571 min Scan# 1468

Delta R.T. 0.006 min

Lab File: VN076691.D

Acq: 15 Feb 2023 17:40

Instrument :

MSVOA_N

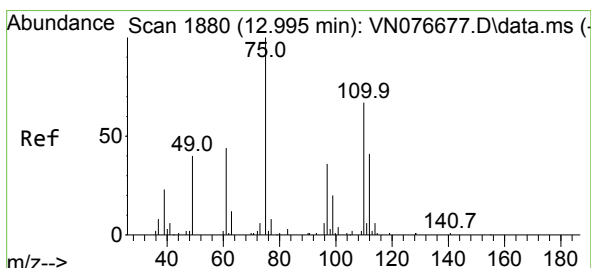
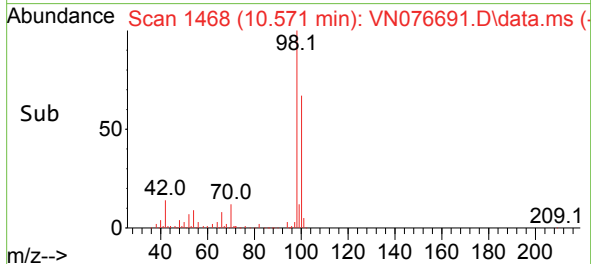
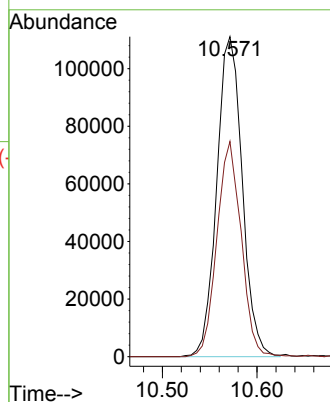
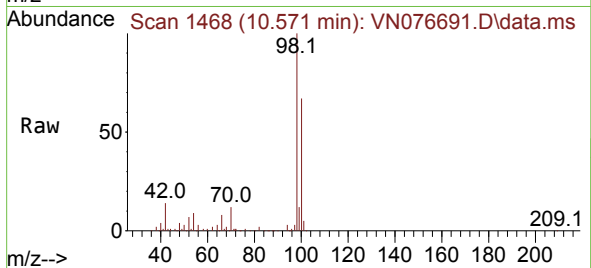
ClientSampleId :

Tgt Ion: 98 Resp: 207858

Ion Ratio Lower Upper

98 100

100 64.1 53.8 80.6



#72

1,2,3-Trichloropropane

Concen: 11.489 ug/l

RT: 12.848 min Scan# 1855

Delta R.T. -0.147 min

Lab File: VN076691.D

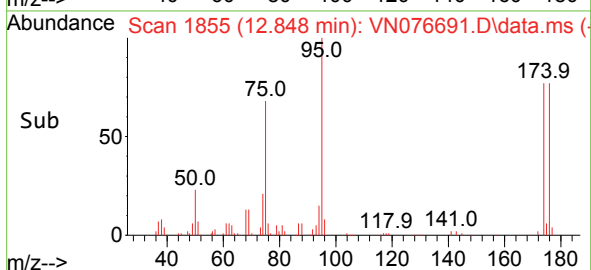
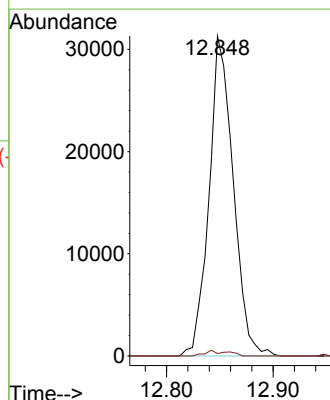
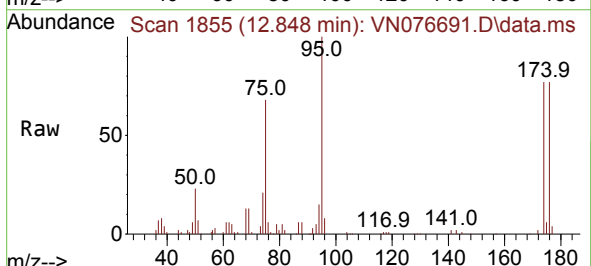
Acq: 15 Feb 2023 17:40

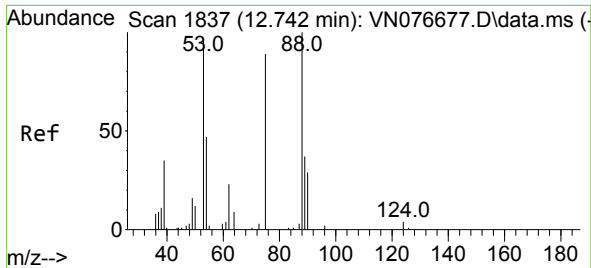
Tgt Ion: 75 Resp: 49351

Ion Ratio Lower Upper

75 100

77 0.9 0.0 332.6





#77

t-1,4-Dichloro-2-butene

Concen: 35.758 ug/l

RT: 12.848 min Scan# 11

Delta R.T. 0.106 min

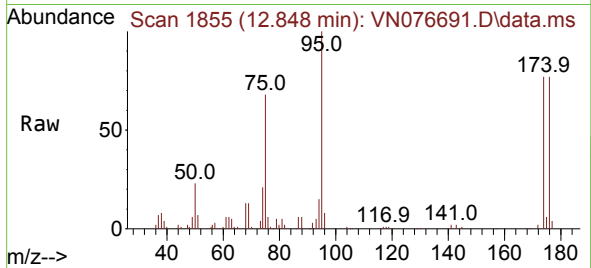
Lab File: VN076691.D

Acq: 15 Feb 2023 17:40

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75 Resp: 49351

Ion Ratio Lower Upper

75 100

53 0.0 50.4 151.3#

89 0.0 22.1 66.5#

