

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101823\
 Data File : VN079600.D
 Acq On : 18 Oct 2023 15:01
 Operator : JC\MD
 Sample : 04943-01 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 19 06:15:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

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

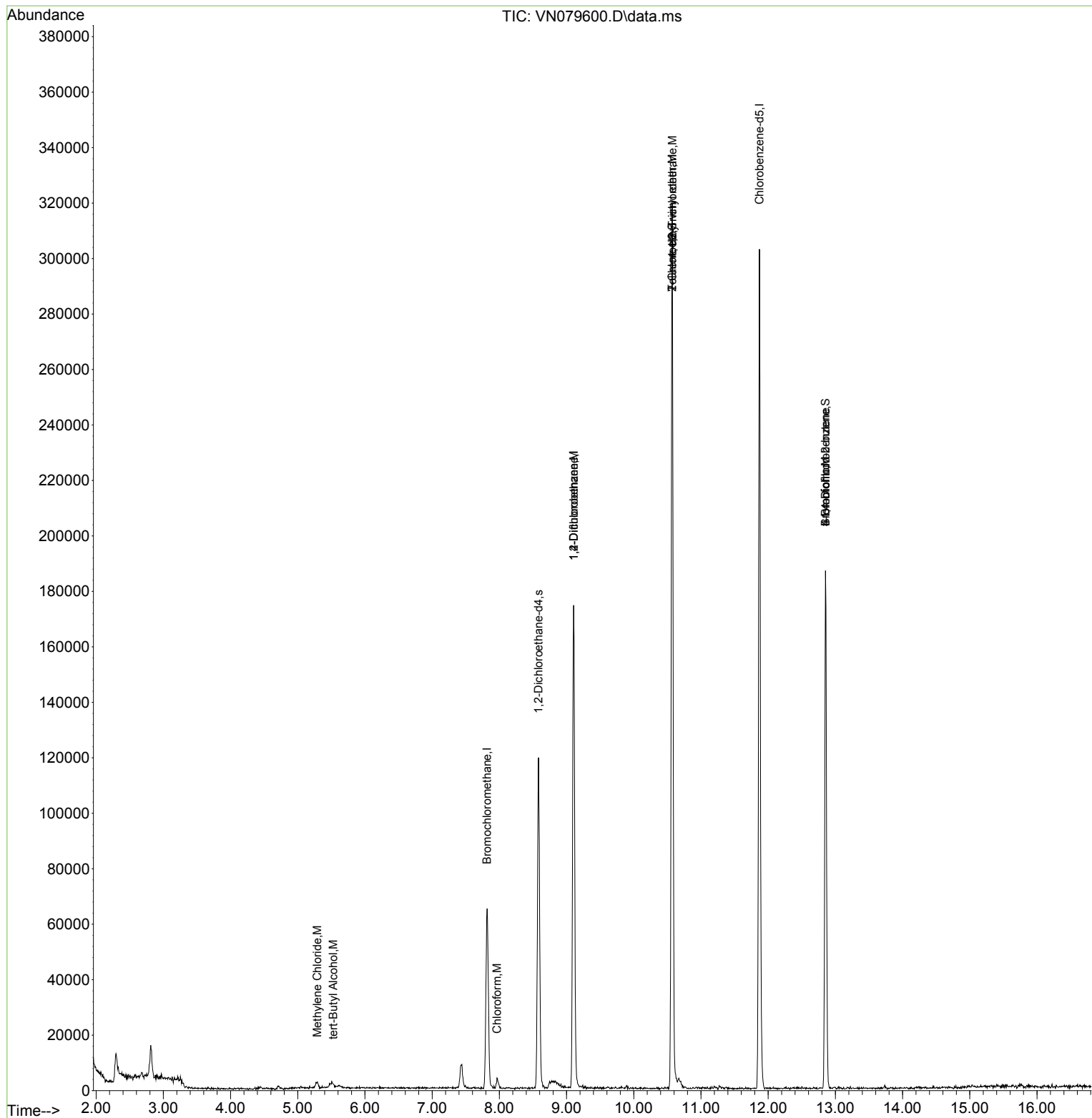
Internal Standards						
1) Bromochloromethane	7.818	128	23358	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	149270	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	174569	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	94187	28.361	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	94.533%
60) 4-Bromofluorobenzene	12.853	95	65216	20.429	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	68.100%
63) Toluene-d8	10.571	98	217125	29.026	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.767%
Target Compounds						
					Qvalue	
18) Methylene Chloride	5.289	84	1316	0.340	ug/l #	65
23) tert-Butyl Alcohol	5.530	59	333	0.548	ug/l #	100
25) Chloroform	7.965	83	2770	0.392	ug/l	87
36) 1,2-Dichloroethane	9.106	62	5768	1.219	ug/l #	75
50) 1,1,2-Trichloroethane	10.576	97	7822	2.456	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.571	63	354	0.211	ug/l #	1
56) Bromoform	12.853	173	756	0.351	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.853	75	36010	29.294	ug/l #	7

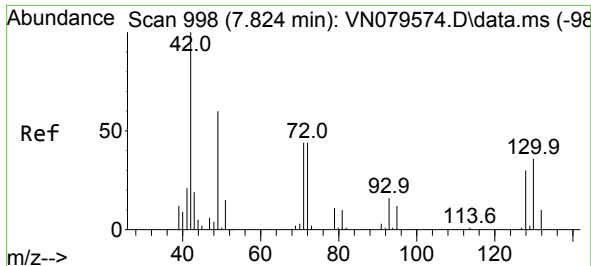
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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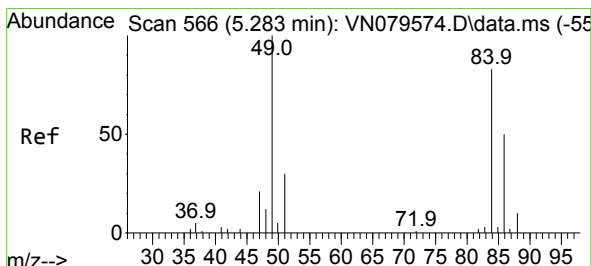
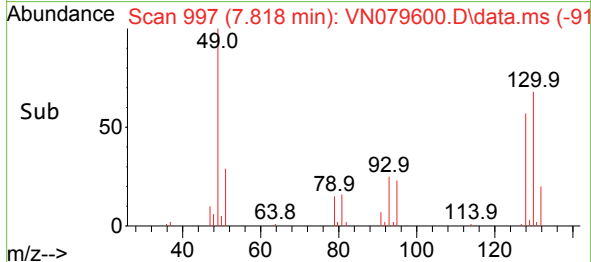
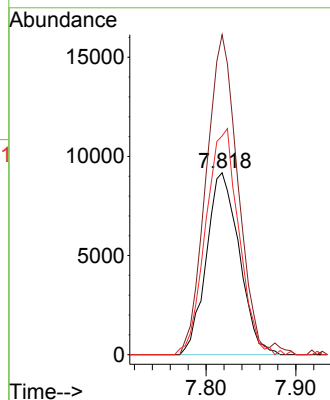
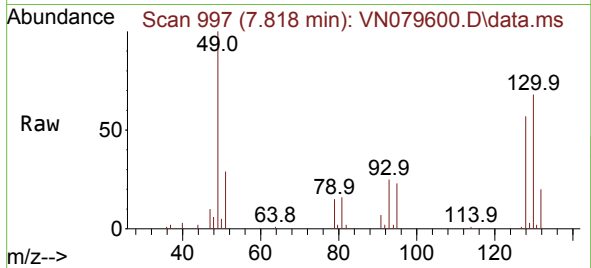




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 998
Delta R.T. -0.006 min
Lab File: VN079600.D
Acq: 18 Oct 2023 15:01

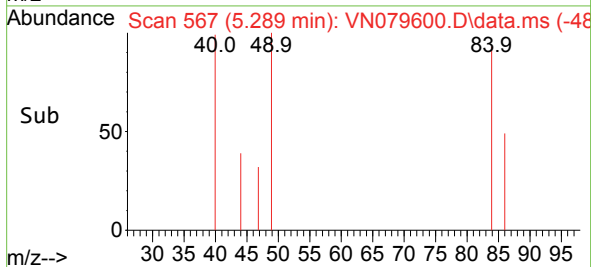
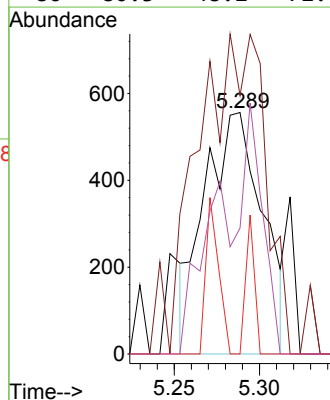
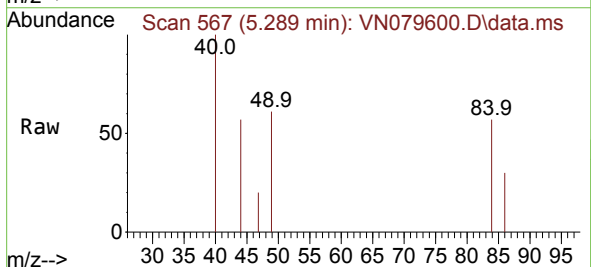
Instrument :
MSVOA_N
ClientSampleId :

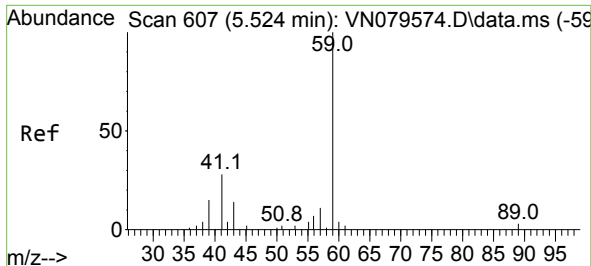
Tgt Ion:128 Resp: 23358
Ion Ratio Lower Upper
128 100
49 169.1 0.0 468.5
130 125.1 0.0 320.7



#18
Methylene Chloride
Concen: 0.340 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN079600.D
Acq: 18 Oct 2023 15:01

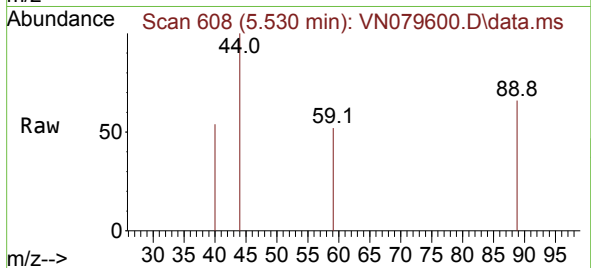
Tgt Ion: 84 Resp: 1316
Ion Ratio Lower Upper
84 100
49 89.8 100.9 151.3#
51 0.0 29.4 44.2#
86 80.3 48.2 72.4#



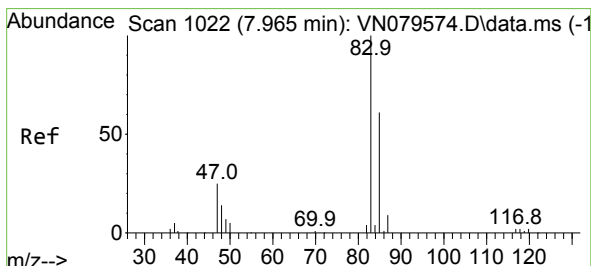
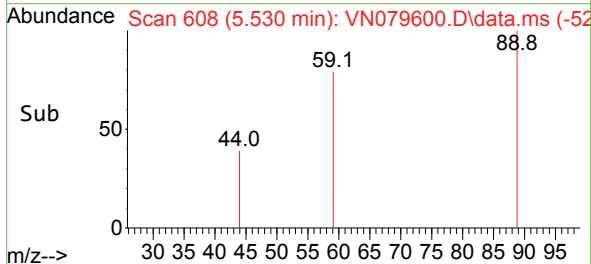
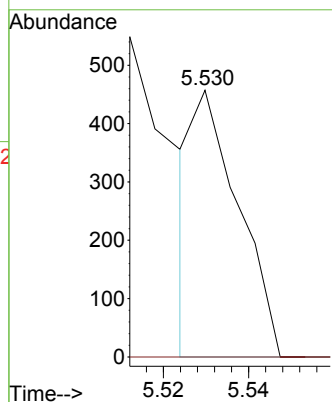


#23
tert-Butyl Alcohol
Concen: 0.548 ug/l
RT: 5.530 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN079600.D
Acq: 18 Oct 2023 15:01

Instrument :
MSVOA_N
ClientSampleId :

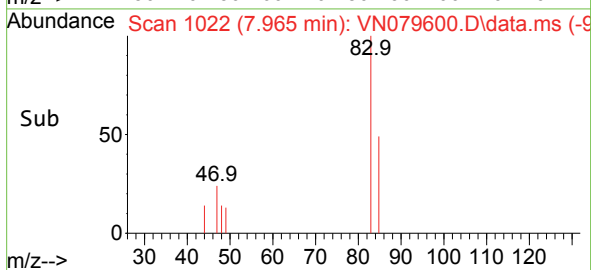
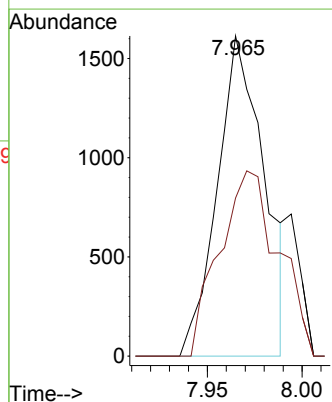
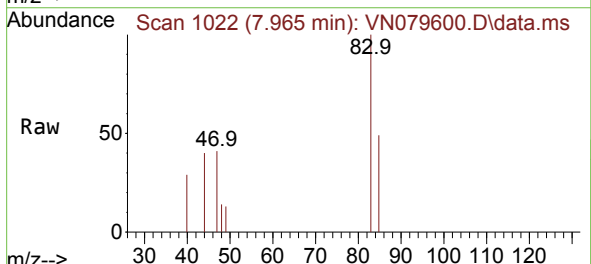


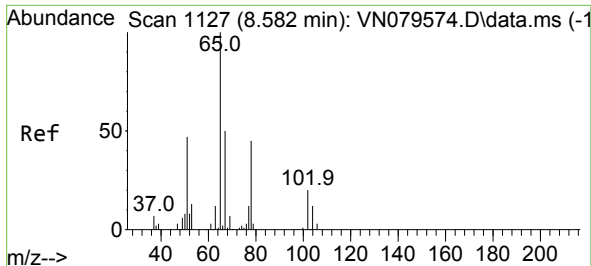
Tgt Ion: 59 Resp: 333
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 0.392 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN079600.D
Acq: 18 Oct 2023 15:01

Tgt Ion: 83 Resp: 2770
Ion Ratio Lower Upper
83 100
85 49.4 47.4 71.2





#27

1,2-Dichloroethane-d4

Concen: 28.361 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079600.D

Acq: 18 Oct 2023 15:01

Instrument :

MSVOA_N

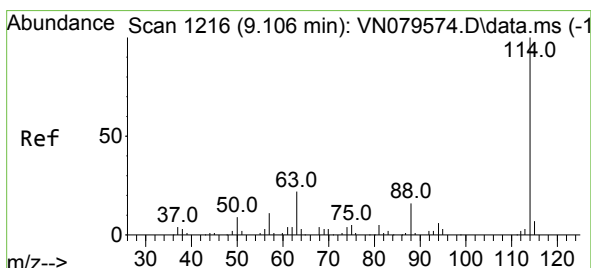
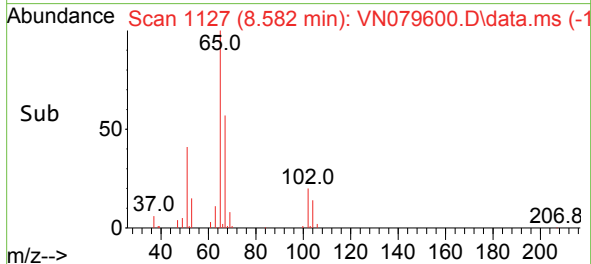
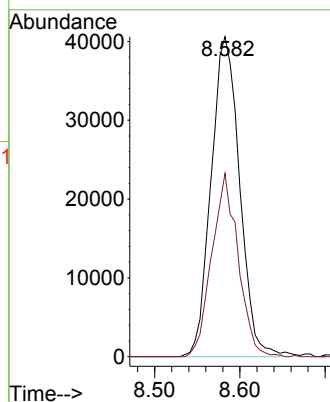
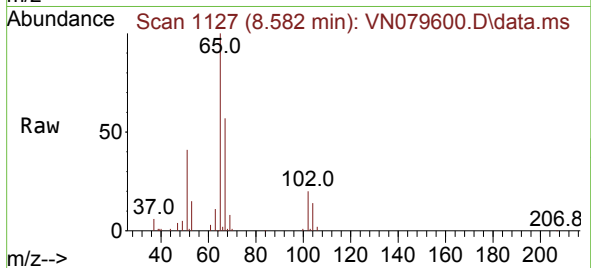
ClientSampleId :

Tgt Ion: 65 Resp: 94187

Ion Ratio Lower Upper

65 100

67 52.8 42.1 63.1



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079600.D

Acq: 18 Oct 2023 15:01

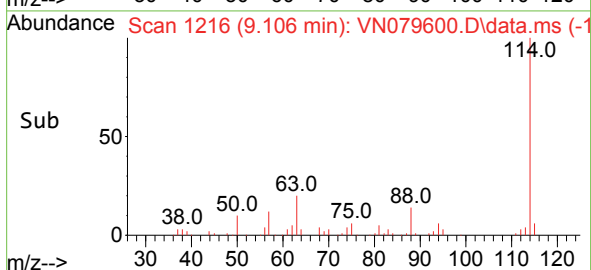
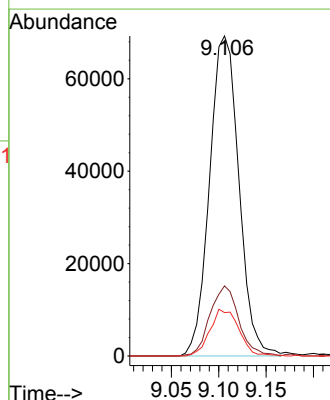
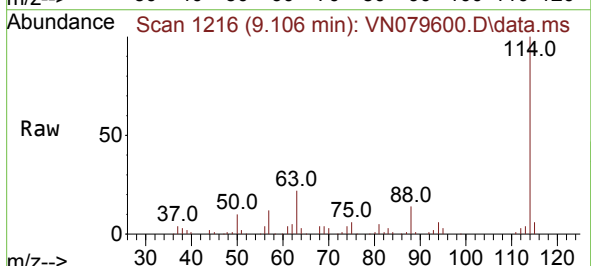
Tgt Ion: 114 Resp: 149270

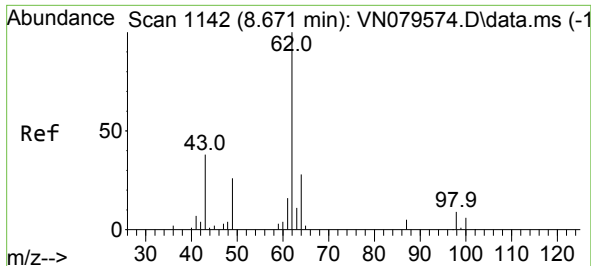
Ion Ratio Lower Upper

114 100

63 21.4 18.1 27.1

88 14.4 12.2 18.2





#36

1,2-Dichloroethane

Concen: 1.219 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.435 min

Lab File: VN079600.D

Acq: 18 Oct 2023 15:01

Instrument :

MSVOA_N

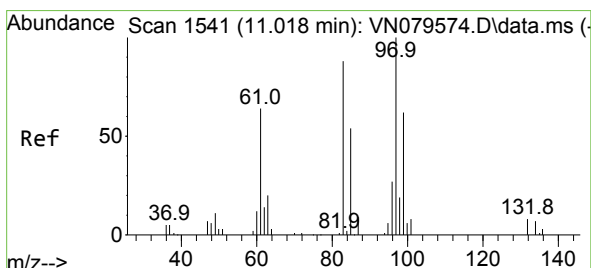
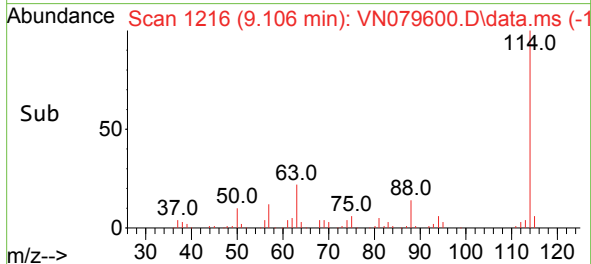
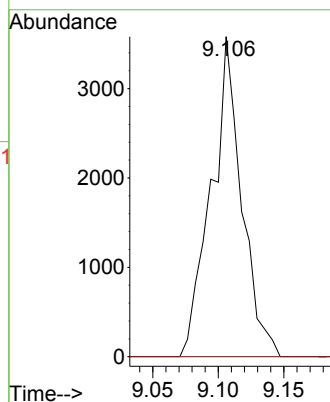
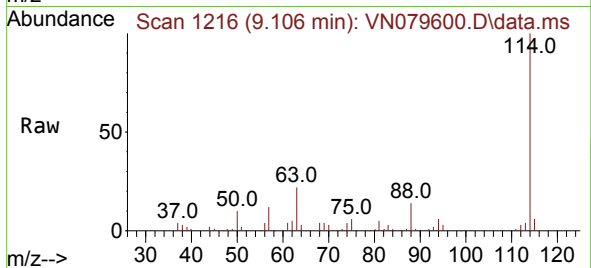
ClientSampleId :

Tgt Ion: 62 Resp: 5768

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



#50

1,1,2-Trichloroethane

Concen: 2.456 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. -0.441 min

Lab File: VN079600.D

Acq: 18 Oct 2023 15:01

Tgt Ion: 97 Resp: 7822

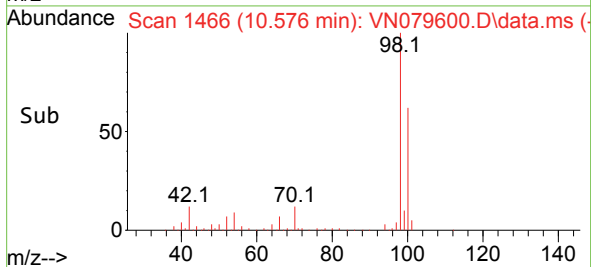
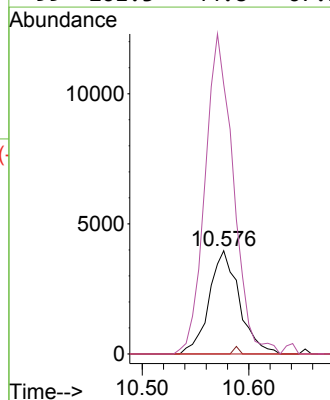
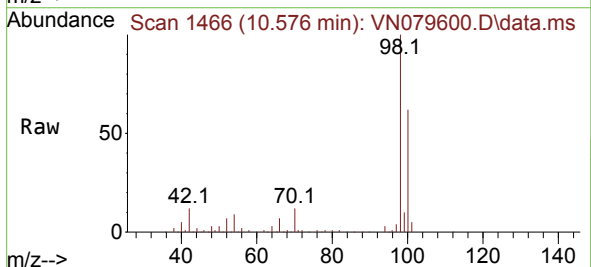
Ion Ratio Lower Upper

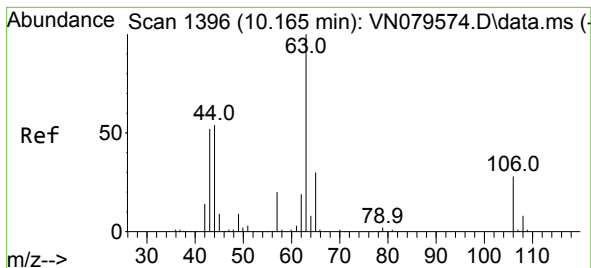
97 100

83 0.0 68.2 102.4#

85 0.0 42.9 64.3#

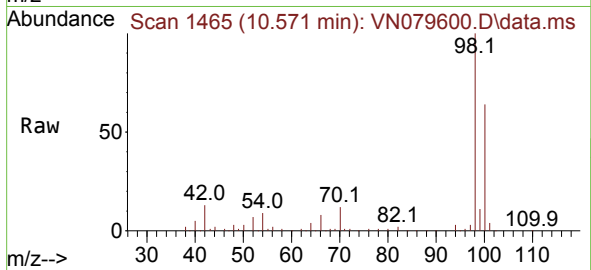
99 261.3 44.8 67.2#



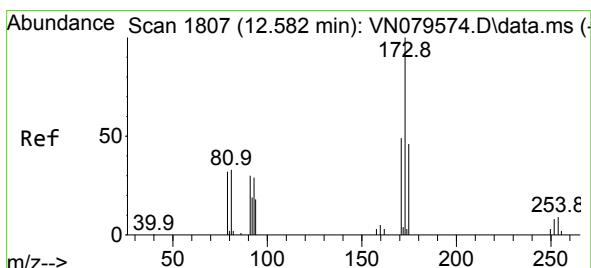
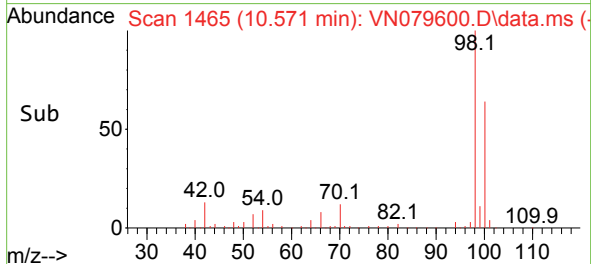
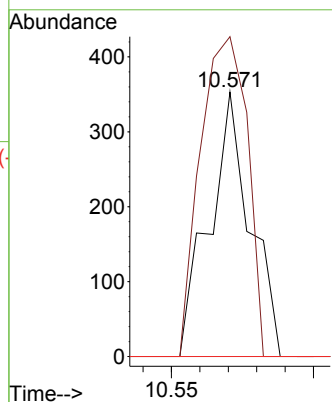


#55
2-Chloroethyl vinyl ether
Concen: 0.211 ug/l
RT: 10.571 min Scan# 14
Delta R.T. 0.406 min
Lab File: VN079600.D
Acq: 18 Oct 2023 15:01

Instrument :
MSVOA_N
ClientSampleId :

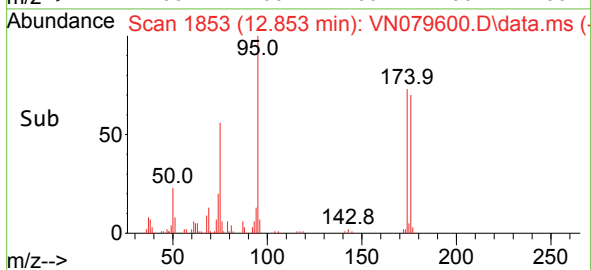
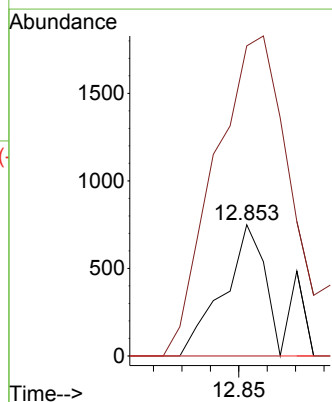
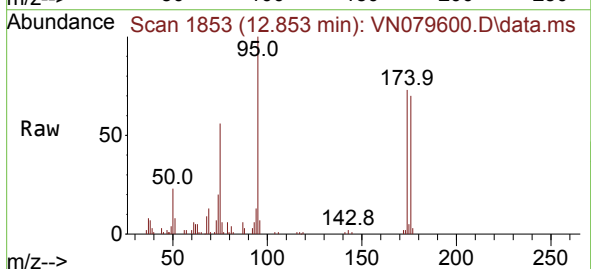


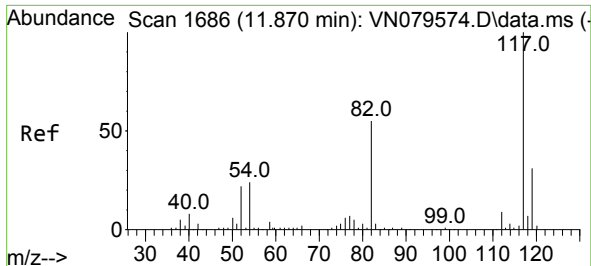
Tgt Ion: 63 Resp: 354
Ion Ratio Lower Upper
63 100
65 138.7 25.9 38.9#
106 0.0 20.6 30.8#



#56
Bromoform
Concen: 0.351 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN079600.D
Acq: 18 Oct 2023 15:01

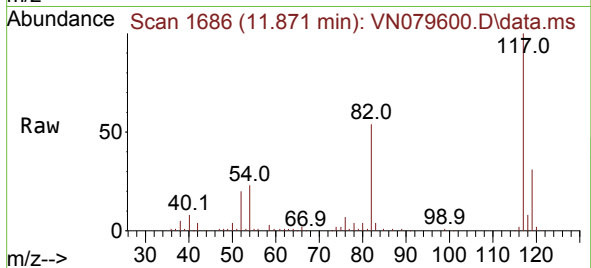
Tgt Ion:173 Resp: 756
Ion Ratio Lower Upper
173 100
175 456.0 37.9 56.9#
254 0.0 7.3 10.9#



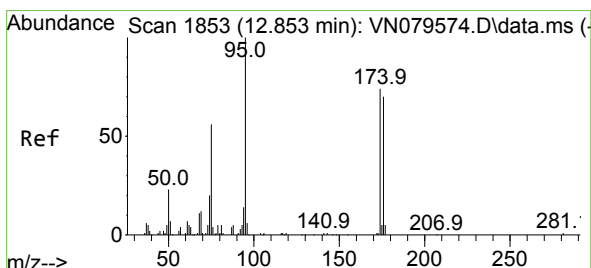
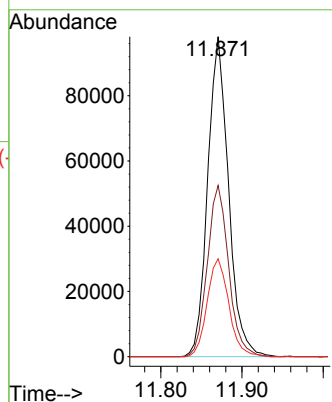
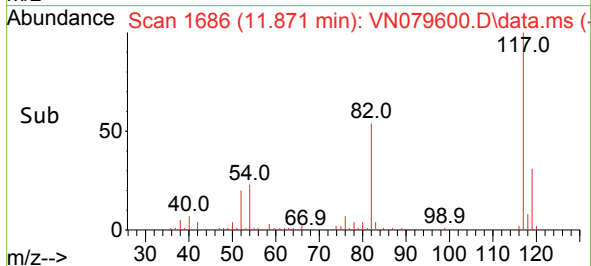


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN079600.D
Acq: 18 Oct 2023 15:01

Instrument :
MSVOA_N
ClientSampleId :

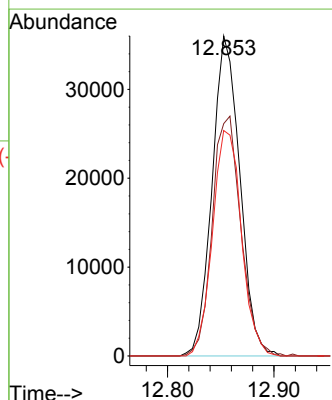
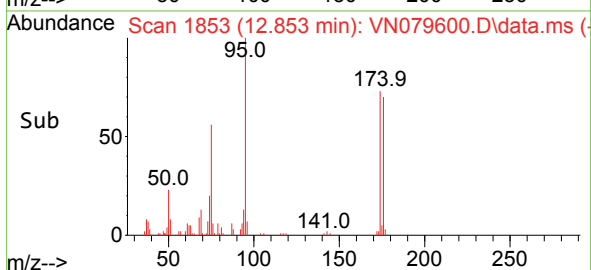
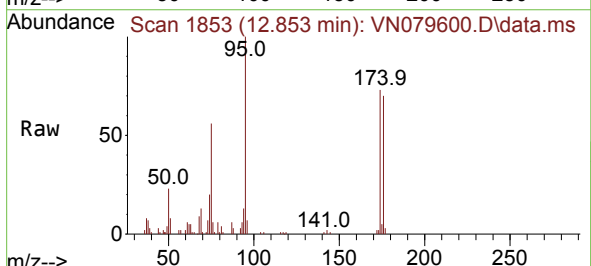


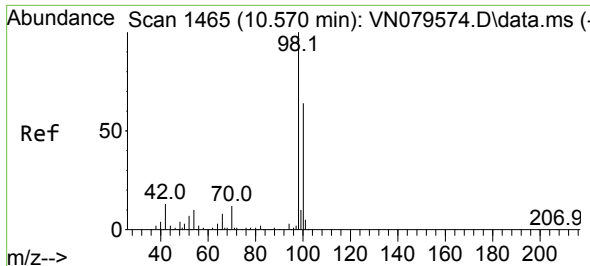
Tgt Ion:117 Resp: 174569
Ion Ratio Lower Upper
117 100
82 55.0 46.2 69.2
119 31.9 25.2 37.8



#60
4-Bromofluorobenzene
Concen: 20.429 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079600.D
Acq: 18 Oct 2023 15:01

Tgt Ion: 95 Resp: 65216
Ion Ratio Lower Upper
95 100
174 77.5 60.5 90.7
176 73.2 57.2 85.8

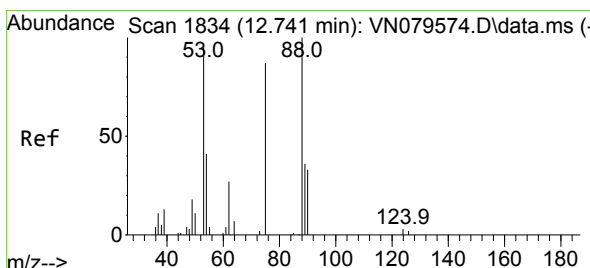
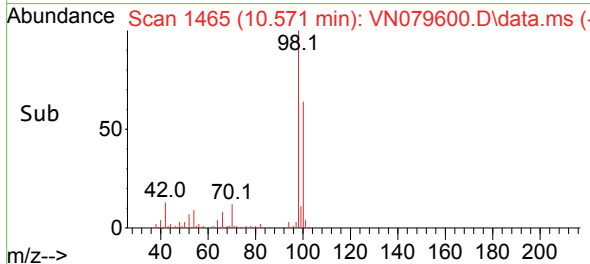
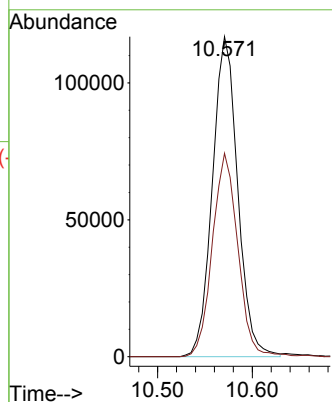
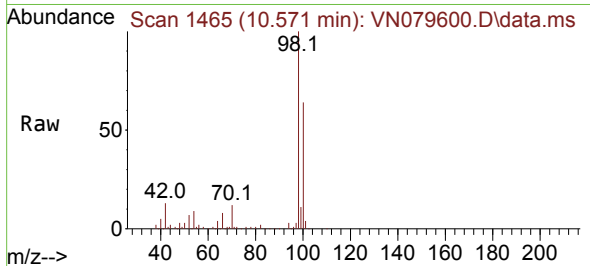




#63
Toluene-d8
Concen: 29.026 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079600.D
Acq: 18 Oct 2023 15:01

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 98 Resp: 217125
Ion Ratio Lower Upper
98 100
100 63.9 51.6 77.4



#77
t-1,4-Dichloro-2-butene
Concen: 29.294 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079600.D
Acq: 18 Oct 2023 15:01

Tgt Ion: 75 Resp: 36010
Ion Ratio Lower Upper
75 100
53 0.0 53.0 159.1#
89 0.0 22.6 67.7#

