

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081723\
 Data File : VN078930.D
 Acq On : 17 Aug 2023 17:05
 Operator : JC\MD
 Sample : 04027-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 05:33:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

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

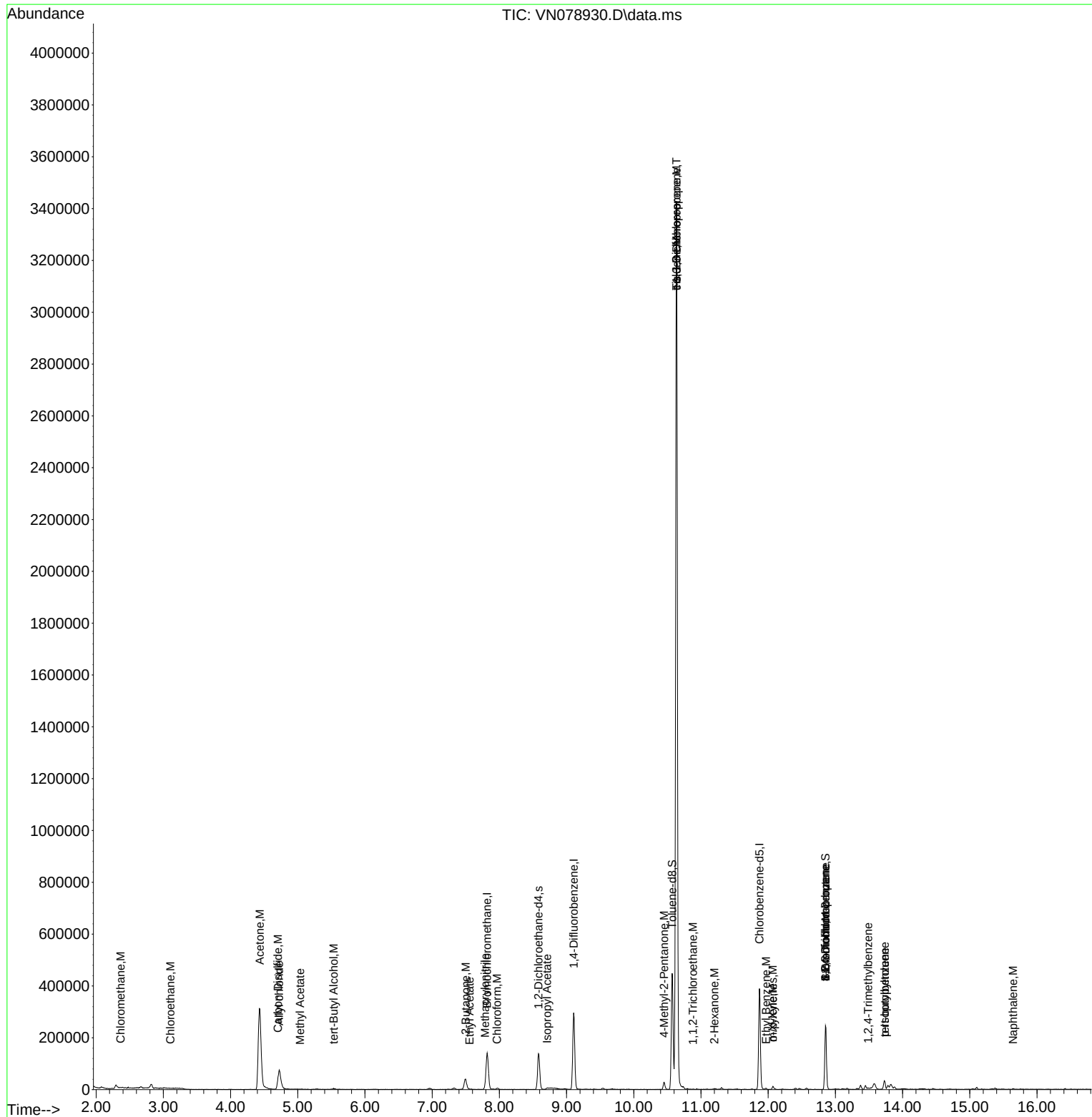
Internal Standards						
1) Bromochloromethane	7.818	128	46555	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	250449	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	216442	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	110716	29.355	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.833%
60) 4-Bromofluorobenzene	12.853	95	81893	25.938	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	86.467%
63) Toluene-d8	10.571	98	300571	29.737	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.133%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1008	0.286	ug/l	99
6) Chloroethane	3.106	64	723	0.319	ug/l #	44
12) Methyl Acetate	5.036	43	1217	0.211	ug/l #	54
15) Acetone	4.436	58	176140	377.910	ug/l	98
16) Carbon Disulfide	4.706	76	3724	0.526	ug/l #	58
17) Allyl chloride	4.724	41	11580	2.562	ug/l	88
23) tert-Butyl Alcohol	5.536	59	3241	5.718	ug/l #	100
25) Chloroform	7.965	83	2857	0.520	ug/l	88
30) 2-Butanone	7.500	43	67106	30.088	ug/l	98
35) Methacrylonitrile	7.788	41	714	0.300	ug/l #	48
43) Ethyl Acetate	7.559	43	1490	0.344	ug/l #	69
44) Isopropyl Acetate	8.712	43	2700	0.354	ug/l #	57
48) t-1,3-Dichloropropene	10.635	75	17116	3.877	ug/l #	1
49) cis-1,3-Dichloropropene	10.635	75	17116	3.615	ug/l #	1
50) 1,1,2-Trichloroethane	10.882	97	616	0.221	ug/l #	17
56) Bromoform	12.853	173	435	0.202	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	19814	4.614	ug/l	98
59) 2-Hexanone	11.200	43	1743	0.554	ug/l #	85
62) Toluene	10.635	91	2478099	209.712	ug/l	98
66) Ethyl Benzene	11.970	91	3129	0.253	ug/l #	87
67) m/p-Xylenes	12.070	106	3233	0.702	ug/l	94
68) o-Xylene	12.070	106	3233	0.711	ug/l	96
72) 1,2,3-Trichloropropane	12.853	75	45499	13.437	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	45499	36.158	ug/l #	3
79) tert-butylbenzene	13.735	119	13093	1.775	ug/l	64
80) 1,2,4-Trimethylbenzene	13.488	105	3642	0.424	ug/l	63
82) p-Isopropyltoluene	13.735	119	13093	1.648	ug/l	94
91) Naphthalene	15.647	128	2362	0.448	ug/l #	68

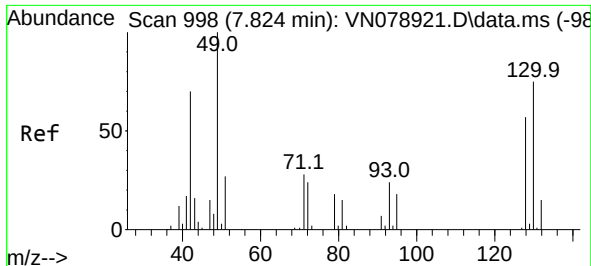
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081723\
Data File : VN078930.D
Acq On : 17 Aug 2023 17:05
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Sample : 04027-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

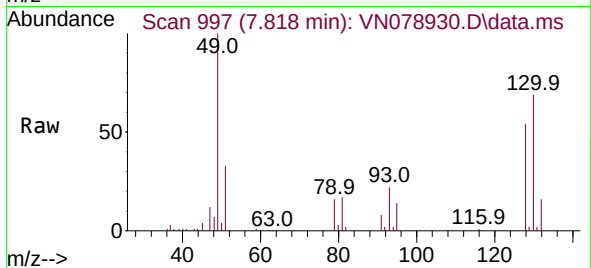
Quant Time: Aug 18 05:33:16 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Aug 18 05:21:14 2023
Response via : Initial Calibration



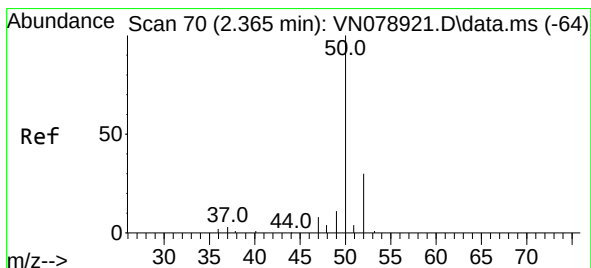
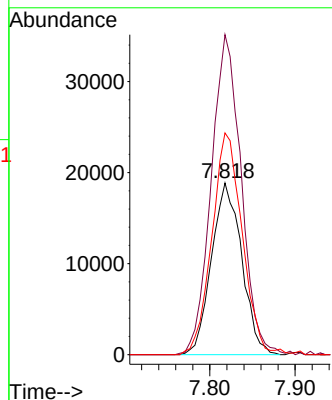
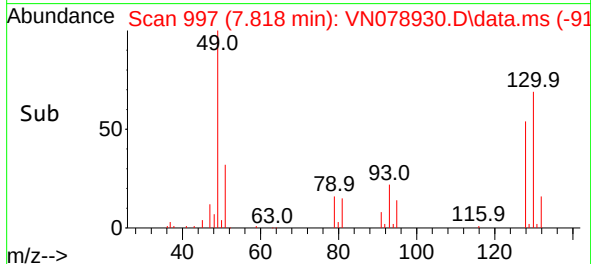


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.006 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

Instrument :
MSVOA_N
ClientSampleId :

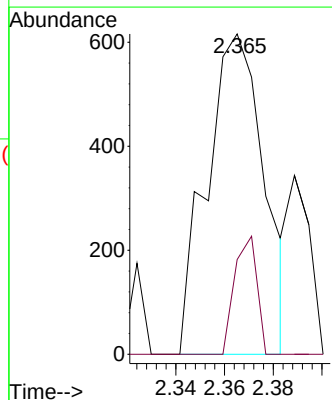
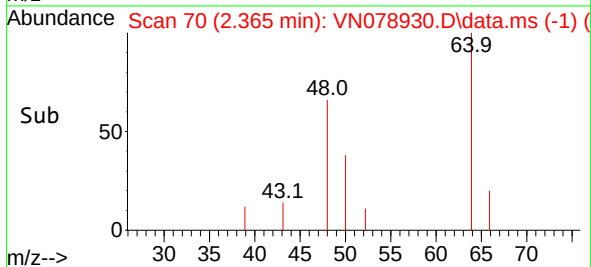
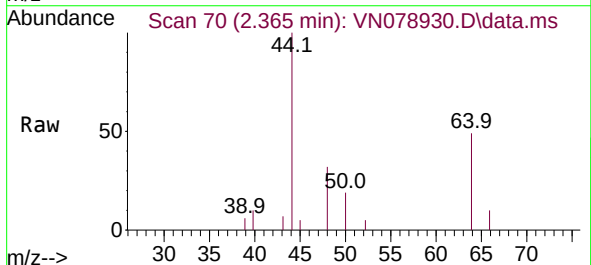


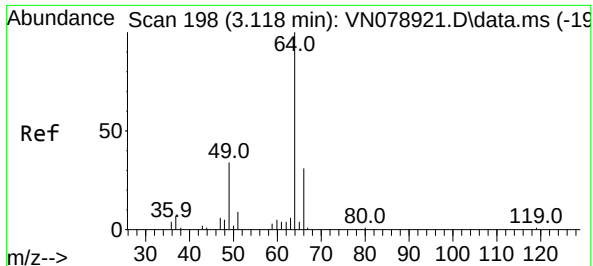
Tgt Ion:128 Resp: 46555
Ion Ratio Lower Upper
128 100
49 184.1 0.0 481.8
130 128.9 0.0 320.5



#3
Chloromethane
Concen: 0.286 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

Tgt Ion: 50 Resp: 1008
Ion Ratio Lower Upper
50 100
52 29.5 24.2 36.4

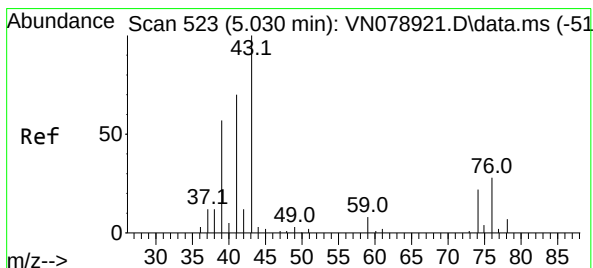
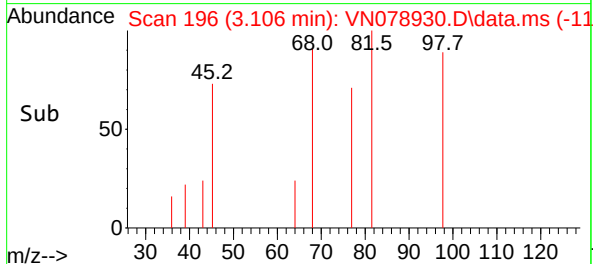
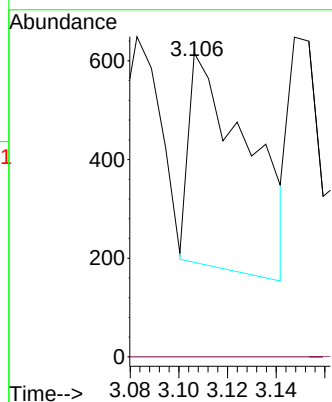
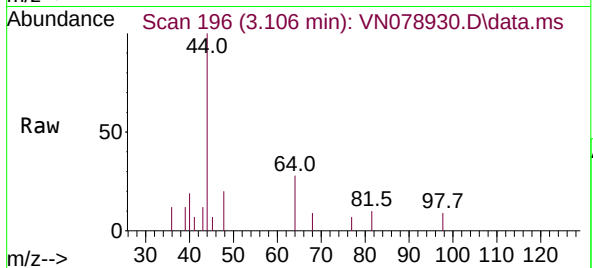




#6
Chloroethane
Concen: 0.319 ug/l
RT: 3.106 min Scan# 198
Delta R.T. -0.012 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

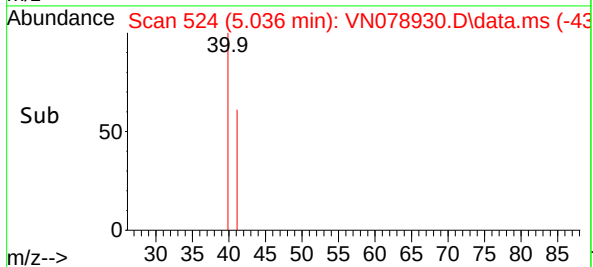
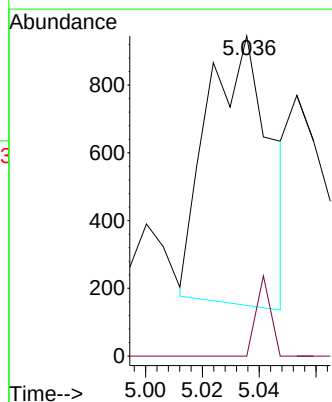
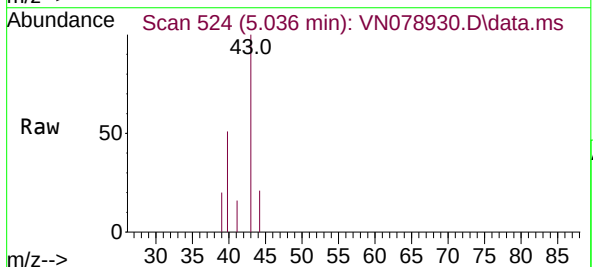
Instrument :
MSVOA_N
ClientSampleId :

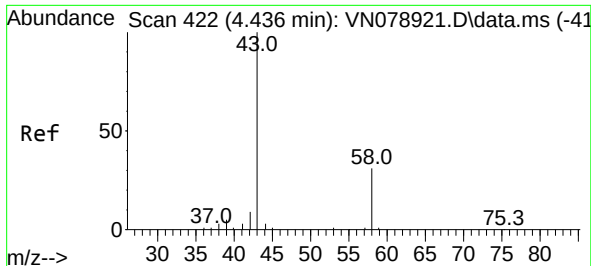
Tgt Ion: 64 Resp: 723
Ion Ratio Lower Upper
64 100
66 0.0 24.9 37.3#



#12
Methyl Acetate
Concen: 0.211 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.006 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

Tgt Ion: 43 Resp: 1217
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#





#15

Acetone

Concen: 377.910 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN078930.D

Acq: 17 Aug 2023 17:05

Instrument :

MSVOA_N

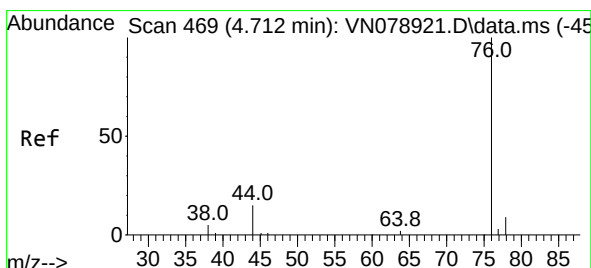
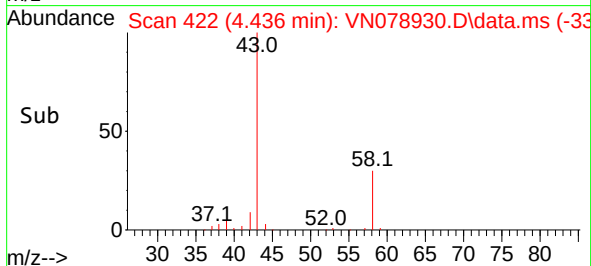
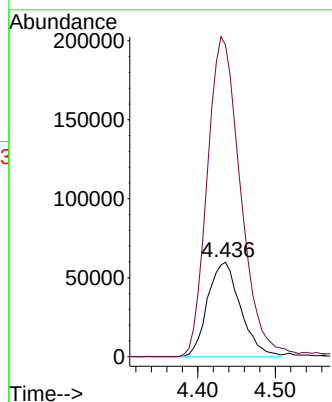
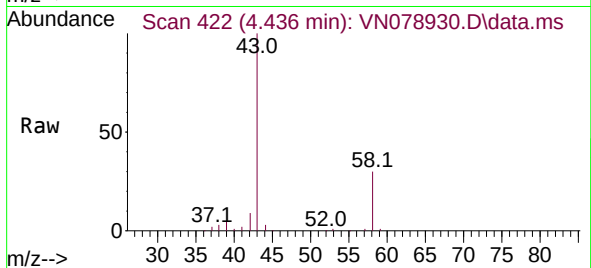
ClientSampleId :

Tgt Ion: 58 Resp: 176140

Ion Ratio Lower Upper

58 100

43 329.8 260.6 390.8



#16

Carbon Disulfide

Concen: 0.526 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.006 min

Lab File: VN078930.D

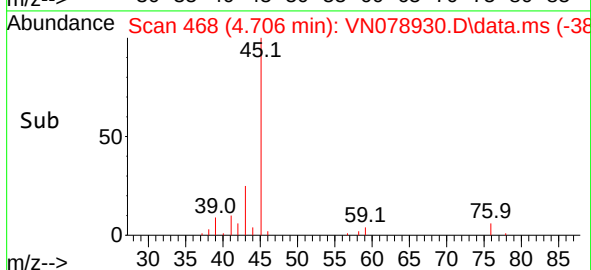
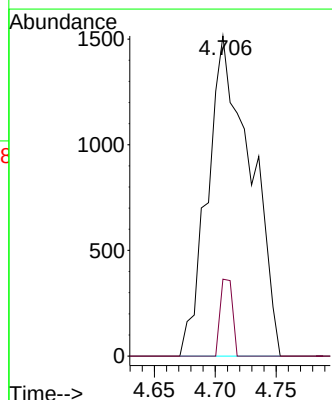
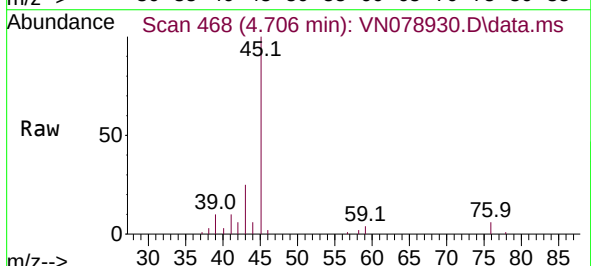
Acq: 17 Aug 2023 17:05

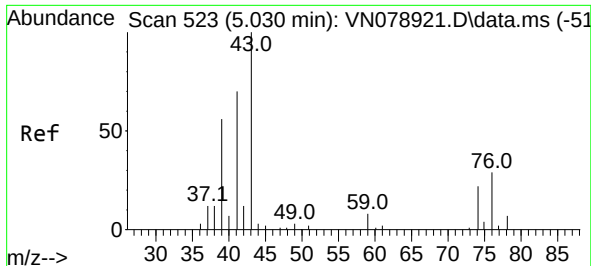
Tgt Ion: 76 Resp: 3724

Ion Ratio Lower Upper

76 100

78 24.0 7.0 10.6#





#17

Allyl chloride

Concen: 2.562 ug/l

RT: 4.724 min Scan# 41

Delta R.T. -0.306 min

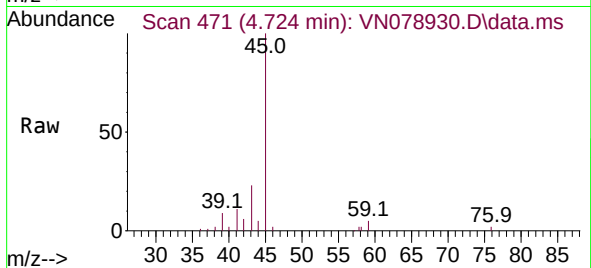
Lab File: VN078930.D

Acq: 17 Aug 2023 17:05

Instrument :

MSVOA_N

ClientSampleId :



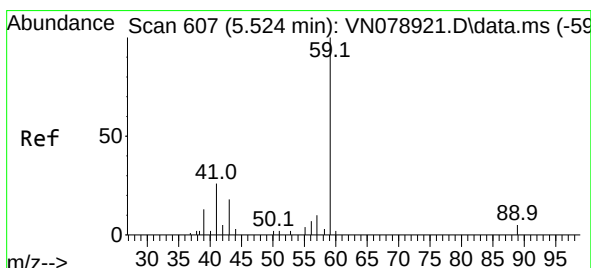
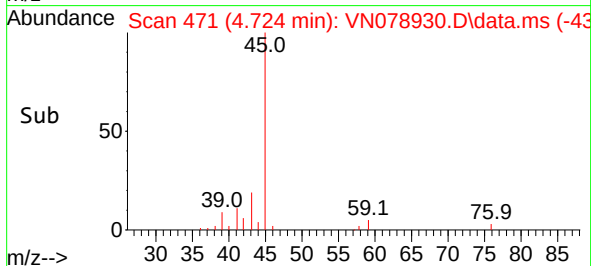
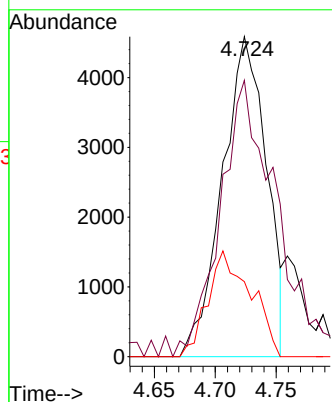
Tgt Ion: 41 Resp: 11580

Ion Ratio Lower Upper

41 100

39 81.4 36.9 110.7

76 23.4 17.3 51.9



#23

tert-Butyl Alcohol

Concen: 5.718 ug/l

RT: 5.536 min Scan# 609

Delta R.T. 0.012 min

Lab File: VN078930.D

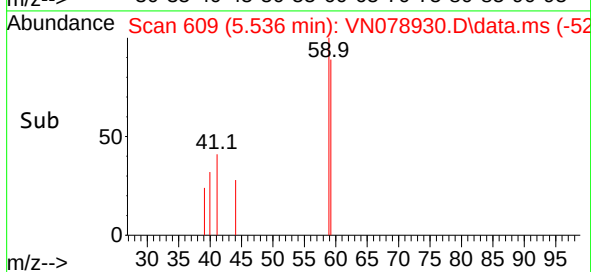
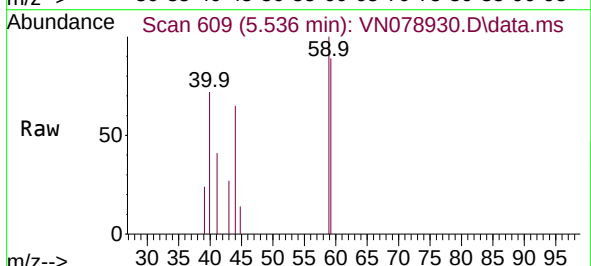
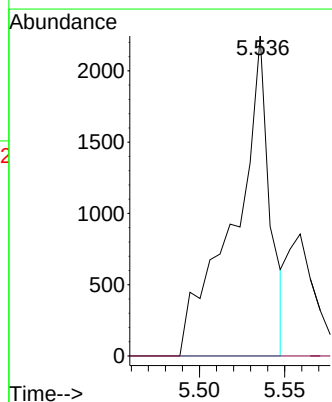
Acq: 17 Aug 2023 17:05

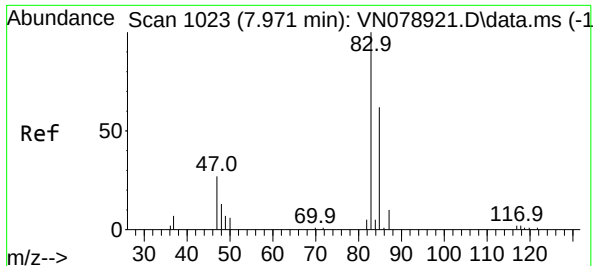
Tgt Ion: 59 Resp: 3241

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0





#25

Chloroform

Concen: 0.520 ug/l

RT: 7.965 min Scan# 1102

Delta R.T. -0.006 min

Lab File: VN078930.D

Acq: 17 Aug 2023 17:05

Instrument :

MSVOA_N

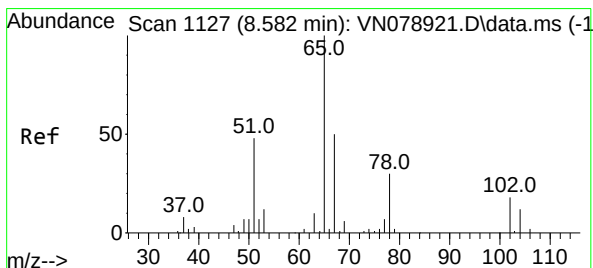
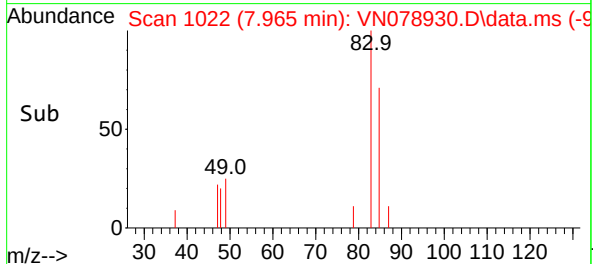
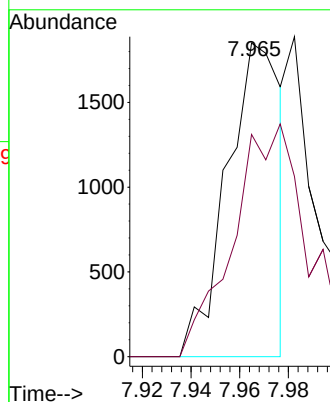
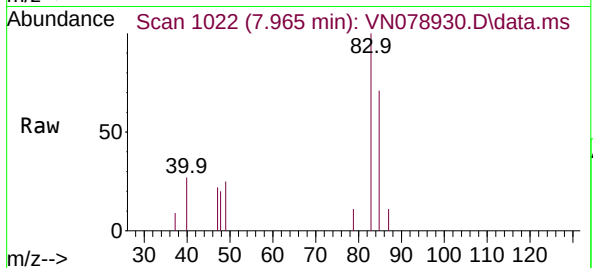
ClientSampleId :

Tgt Ion: 83 Resp: 2857

Ion Ratio Lower Upper

83 100

85 70.9 49.6 74.4



#27

1,2-Dichloroethane-d4

Concen: 29.355 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN078930.D

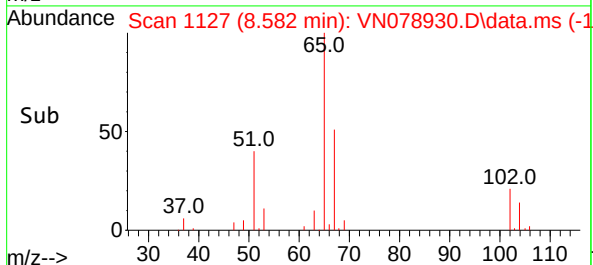
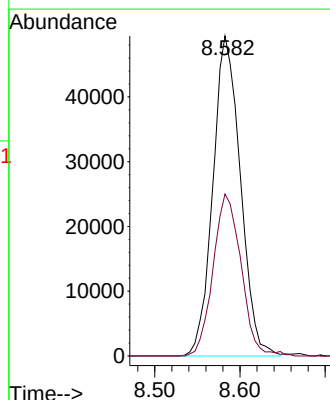
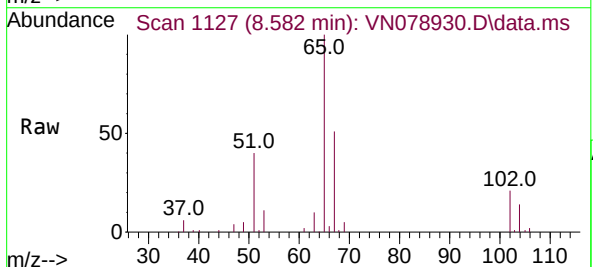
Acq: 17 Aug 2023 17:05

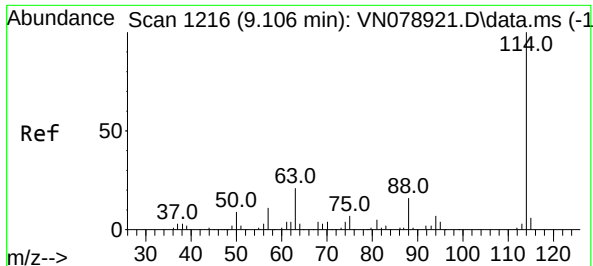
Tgt Ion: 65 Resp: 110716

Ion Ratio Lower Upper

65 100

67 51.1 40.7 61.1

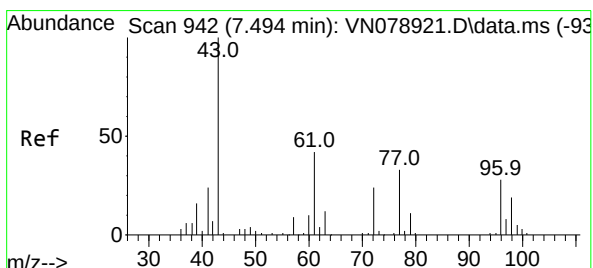
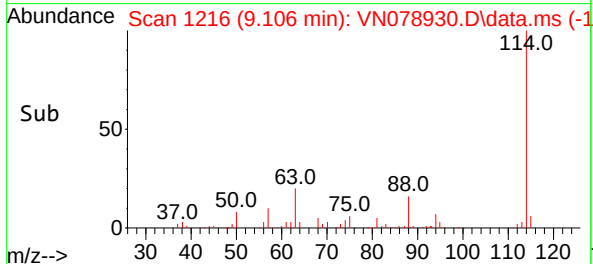
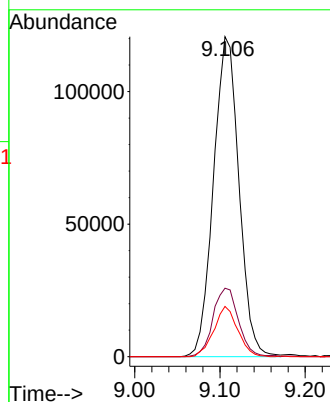
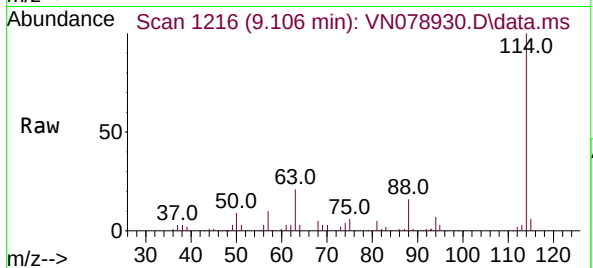




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

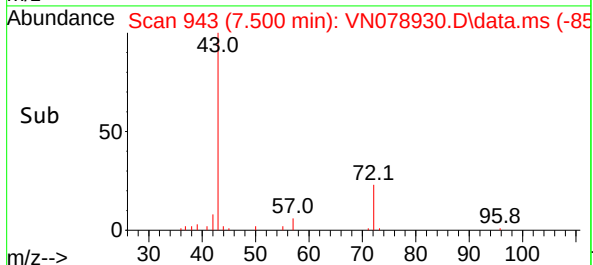
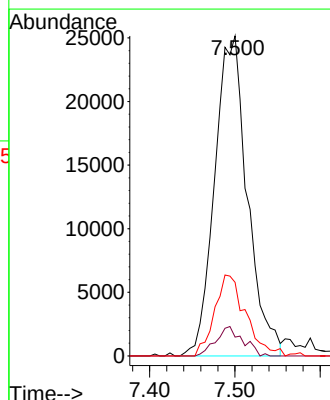
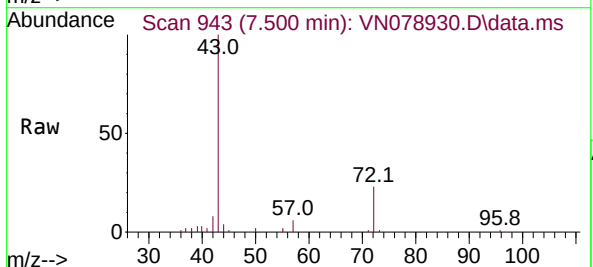
Instrument :
MSVOA_N
ClientSampleId :

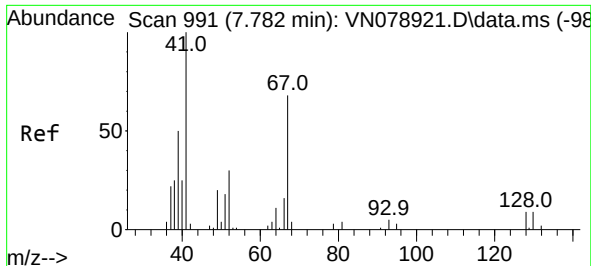
Tgt Ion:114 Resp: 250449
Ion Ratio Lower Upper
114 100
63 21.3 17.4 26.2
88 14.7 12.0 18.0



#30
2-Butanone
Concen: 30.088 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

Tgt Ion: 43 Resp: 67106
Ion Ratio Lower Upper
43 100
57 6.5 6.2 9.4
72 23.7 19.4 29.2

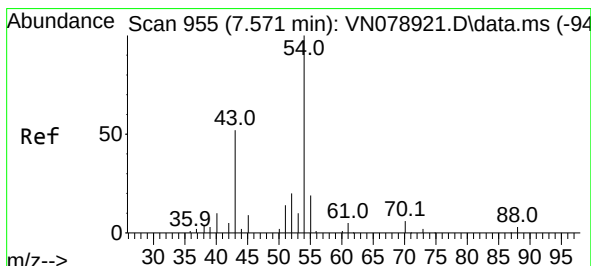
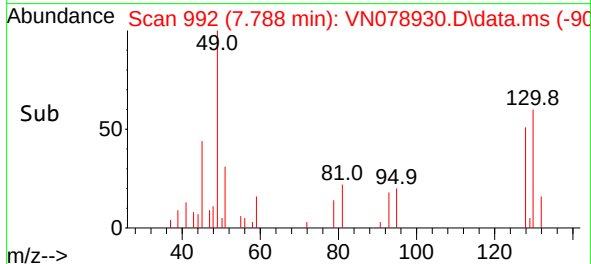
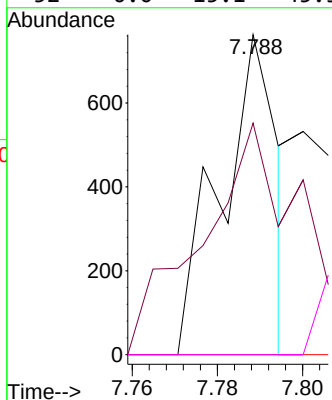
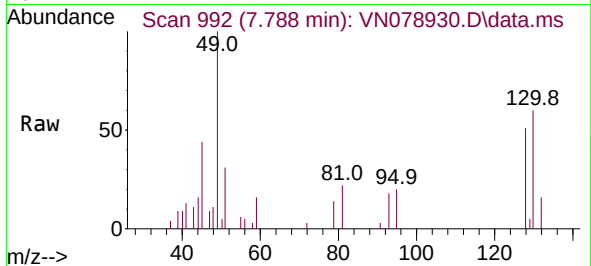




#35
Methacrylonitrile
Concen: 0.300 ug/l
RT: 7.788 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

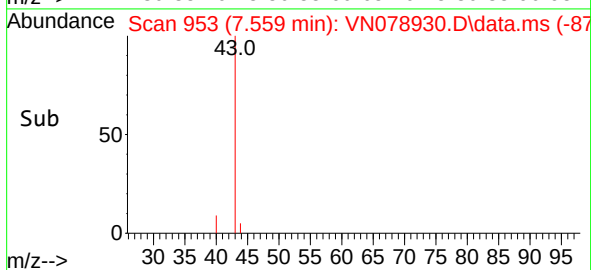
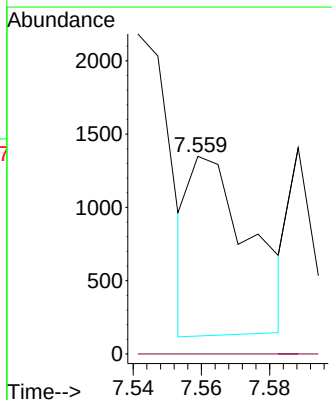
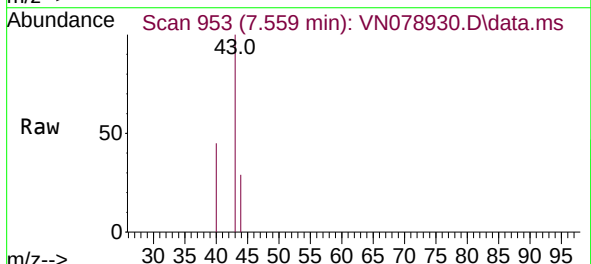
Instrument :
MSVOA_N
ClientSampleId :

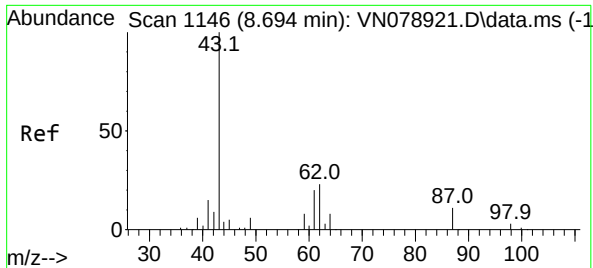
Tgt Ion: 41	Resp: 714
Ion Ratio	Lower Upper
41	100
39	45.3 25.0 75.0
67	0.0 34.0 102.0#
52	0.0 15.1 45.3#



#43
Ethyl Acetate
Concen: 0.344 ug/l
RT: 7.559 min Scan# 953
Delta R.T. -0.012 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

Tgt Ion: 43	Resp: 1490
Ion Ratio	Lower Upper
43	100
45	0.0 9.6 14.4#

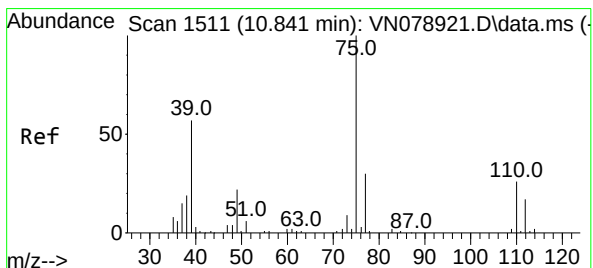
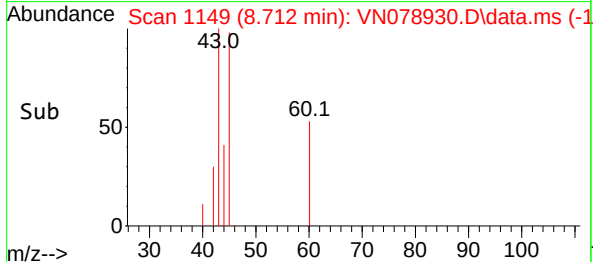
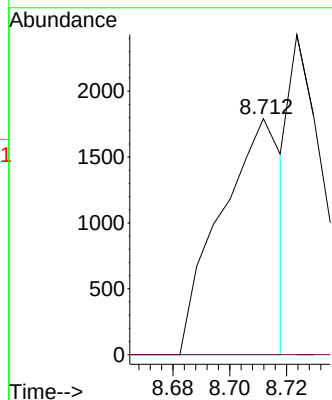
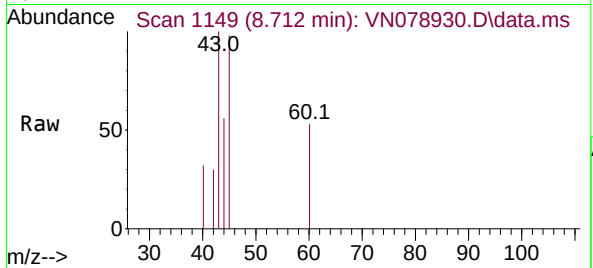




#44
Isopropyl Acetate
Concen: 0.354 ug/l
RT: 8.712 min Scan# 1149
Delta R.T. 0.018 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

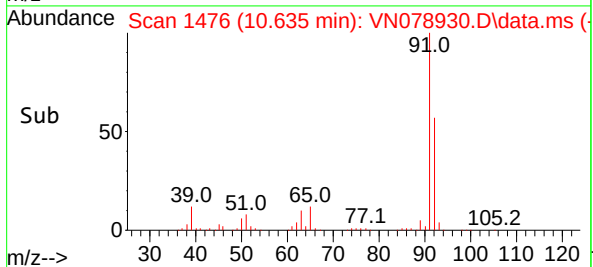
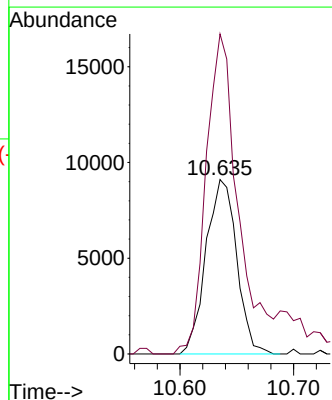
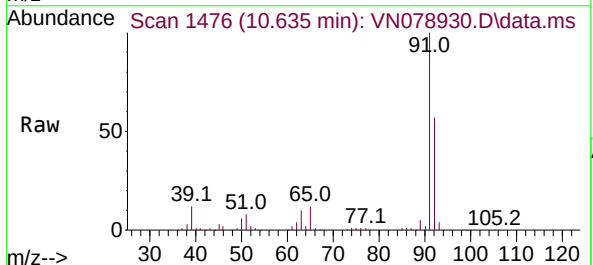
Instrument :
MSVOA_N
ClientSampleId :

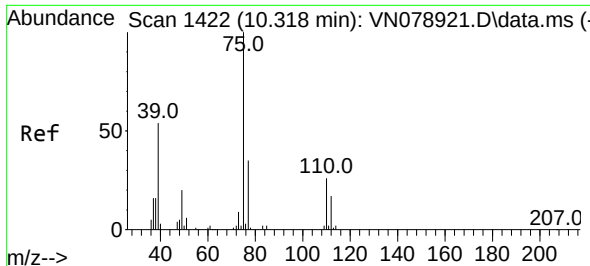
Tgt Ion: 43 Resp: 2700
Ion Ratio Lower Upper
43 100
61 2.6 19.0 28.4#



#48
t-1,3-Dichloropropene
Concen: 3.877 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.206 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

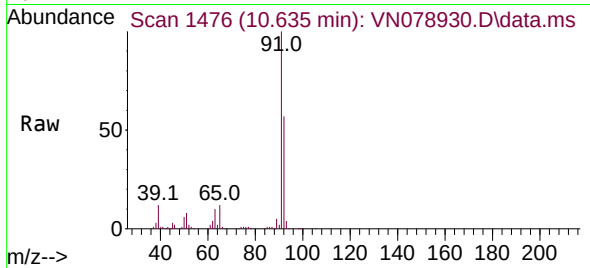
Tgt Ion: 75 Resp: 17116
Ion Ratio Lower Upper
75 100
77 179.0 23.7 35.5#



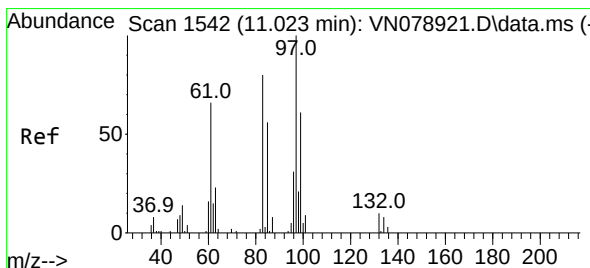
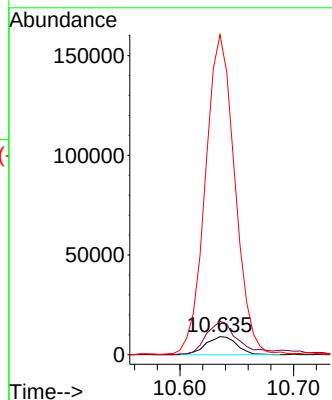
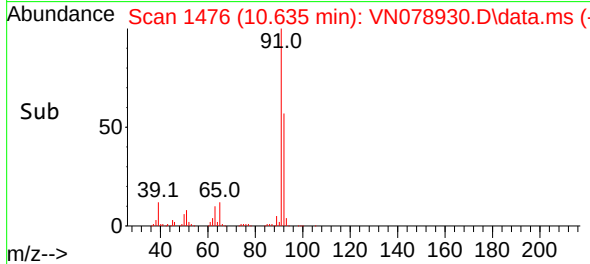


#49
 cis-1,3-Dichloropropene
 Concen: 3.615 ug/l
 RT: 10.635 min Scan# 14
 Delta R.T. 0.318 min
 Lab File: VN078930.D
 Acq: 17 Aug 2023 17:05

Instrument :
 MSVOA_N
 ClientSampleId :

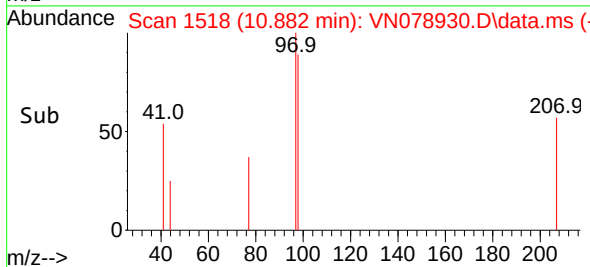
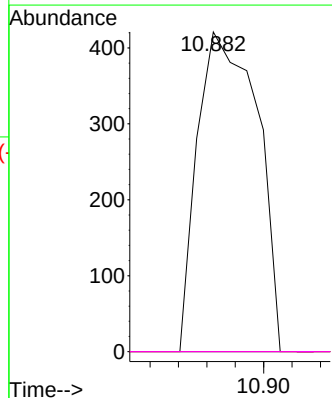
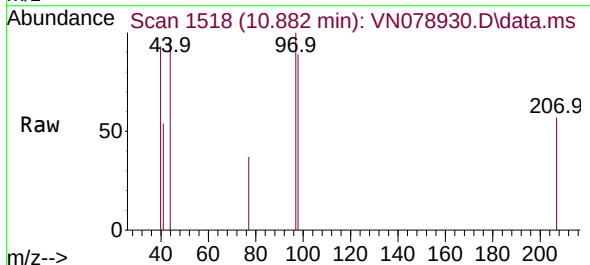


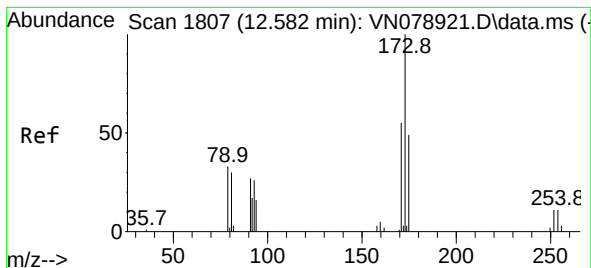
Tgt Ion: 75 Resp: 17116
 Ion Ratio Lower Upper
 75 100
 77 179.0 27.8 41.8#
 39 1746.3 43.5 65.3#



#50
 1,1,2-Trichloroethane
 Concen: 0.221 ug/l
 RT: 10.882 min Scan# 1518
 Delta R.T. -0.141 min
 Lab File: VN078930.D
 Acq: 17 Aug 2023 17:05

Tgt Ion: 97 Resp: 616
 Ion Ratio Lower Upper
 97 100
 83 0.0 63.7 95.5#
 85 0.0 44.9 67.3#
 99 0.0 49.0 73.4#





#56

Bromoform

Concen: 0.202 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

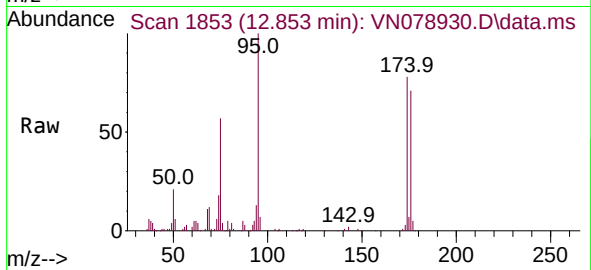
Lab File: VN078930.D

Acq: 17 Aug 2023 17:05

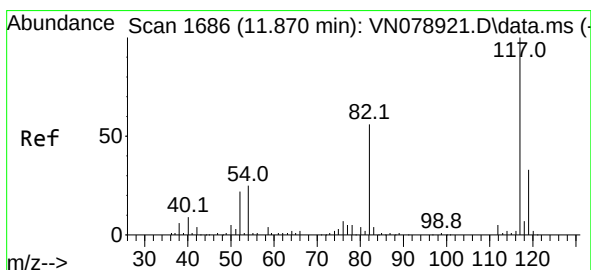
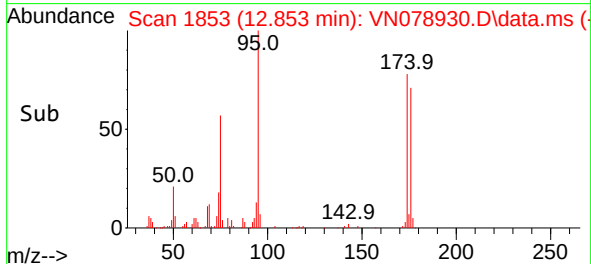
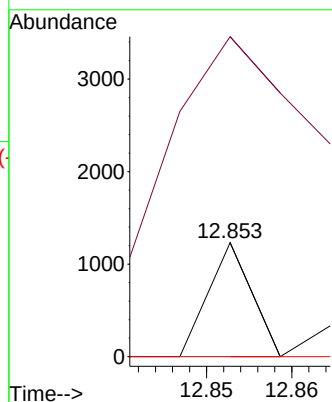
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	435
Ion	Ratio	Lower	Upper
173	100		
175	1251.0	38.8	58.2#
254	0.0	7.6	11.4#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

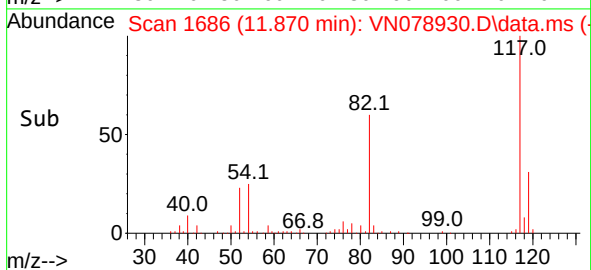
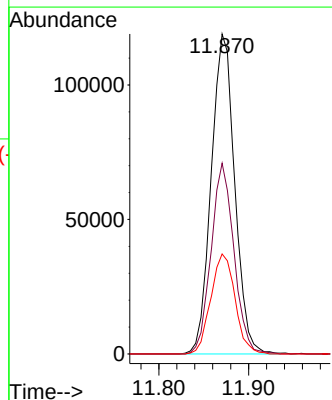
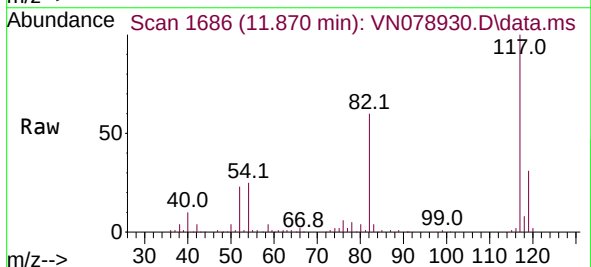
RT: 11.870 min Scan# 1686

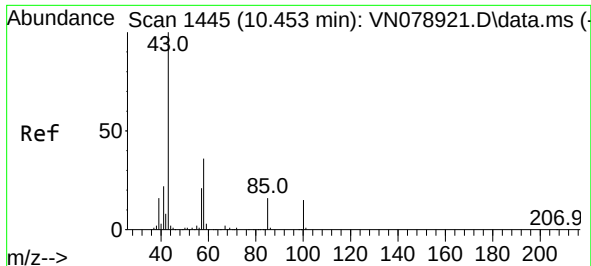
Delta R.T. 0.000 min

Lab File: VN078930.D

Acq: 17 Aug 2023 17:05

Tgt Ion:	117	Resp:	216442
Ion	Ratio	Lower	Upper
117	100		
82	58.0	43.4	65.0
119	32.2	25.5	38.3

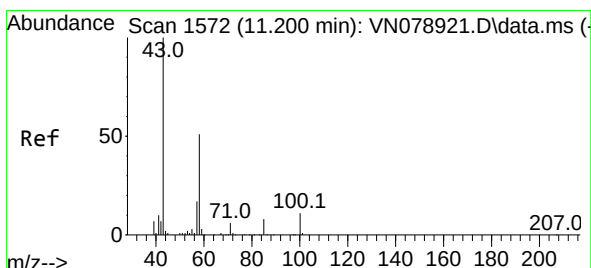
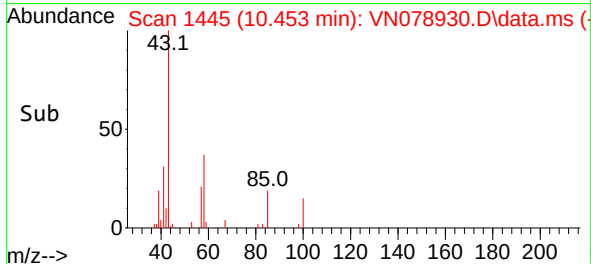
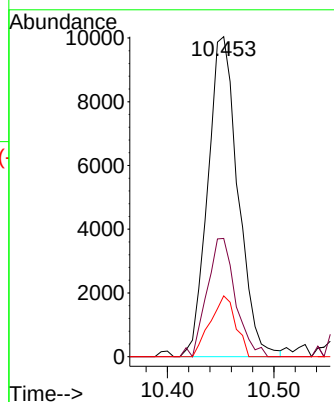
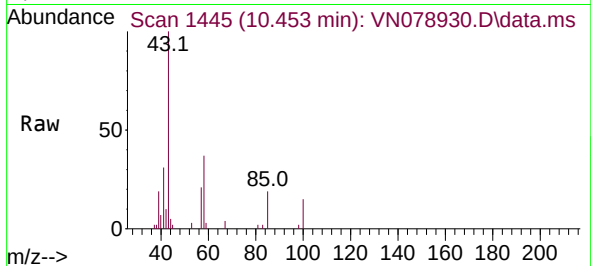




#58
4-Methyl-2-Pentanone
Concen: 4.614 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

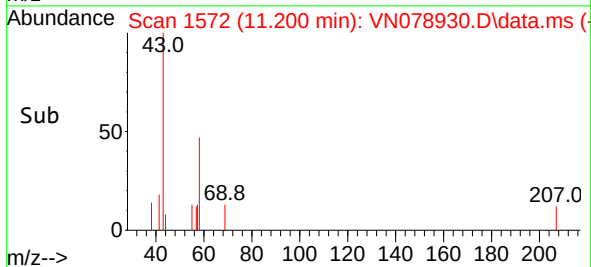
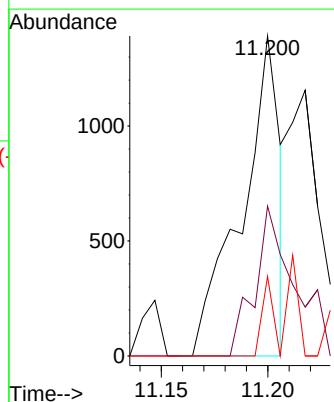
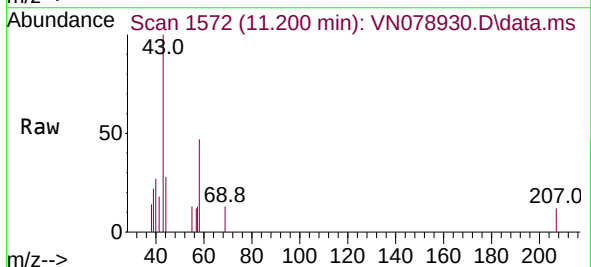
Instrument :
MSVOA_N
ClientSampleId :

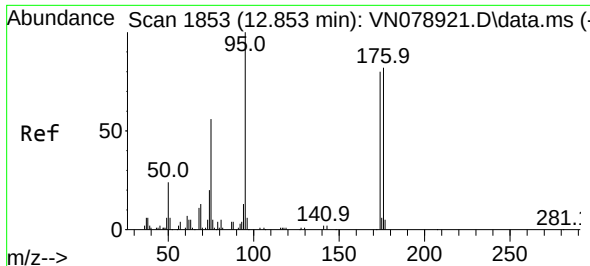
Tgt Ion:	43	Resp:	19814
Ion	Ratio	Lower	Upper
43	100		
58	34.4	28.8	43.2
85	16.0	12.7	19.1



#59
2-Hexanone
Concen: 0.554 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.000 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

Tgt Ion:	43	Resp:	1743
Ion	Ratio	Lower	Upper
43	100		
58	42.2	40.6	60.8
57	7.0	13.6	20.4#

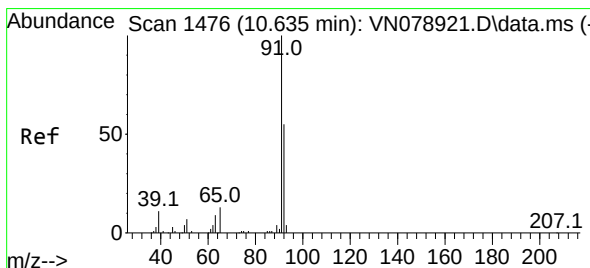
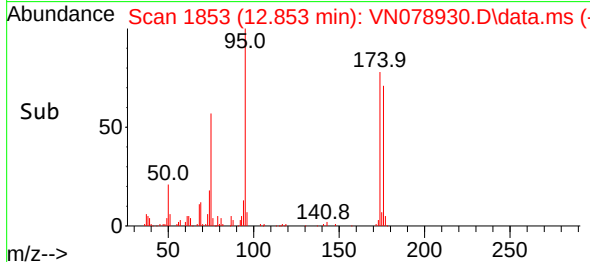
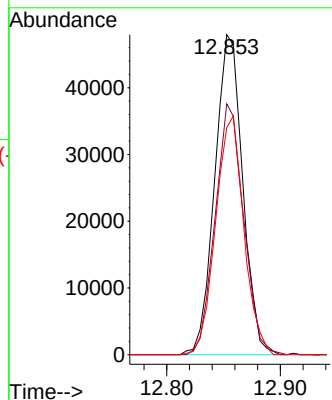
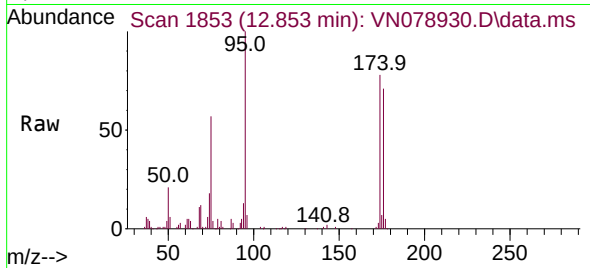




#60
4-Bromofluorobenzene
Concen: 25.938 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

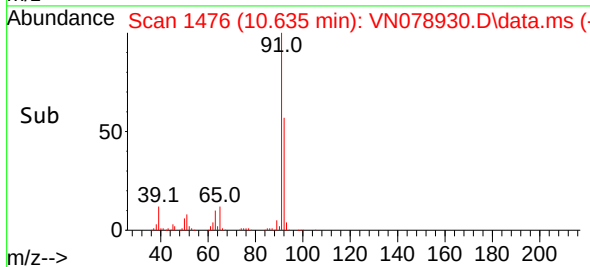
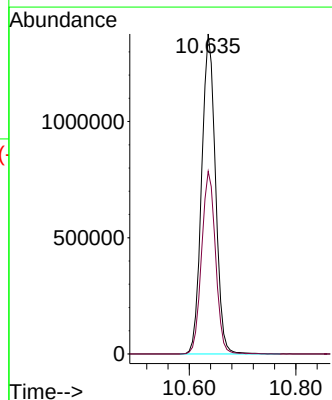
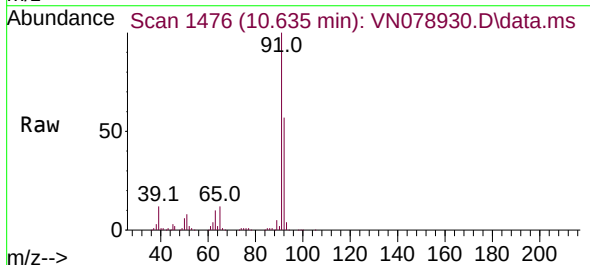
Instrument :
MSVOA_N
ClientSampleId :

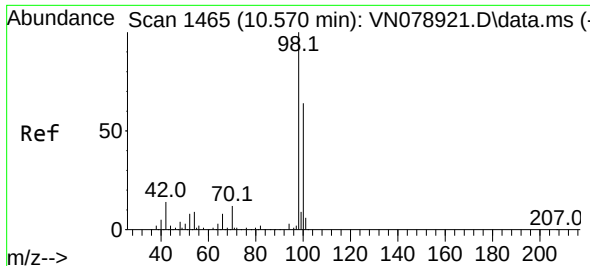
Tgt Ion: 95 Resp: 81893
Ion Ratio Lower Upper
95 100
174 79.7 64.8 97.2
176 75.3 63.0 94.6



#62
Toluene
Concen: 209.712 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

Tgt Ion: 91 Resp: 2478099
Ion Ratio Lower Upper
91 100
92 57.3 44.7 67.1

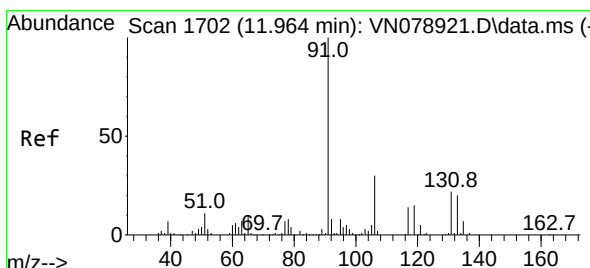
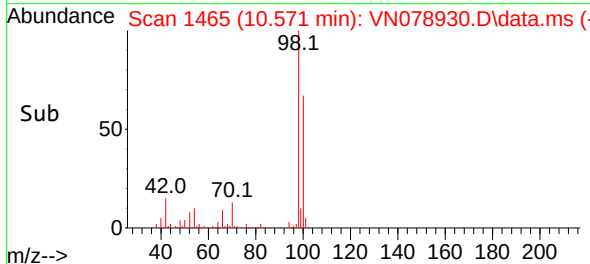
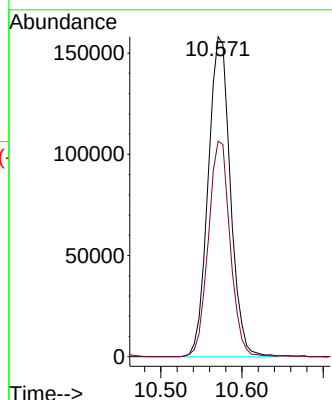
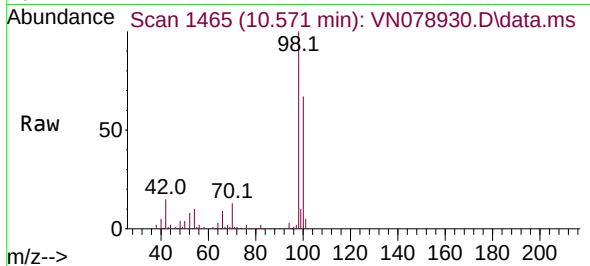




#63
Toluene-d8
Concen: 29.737 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

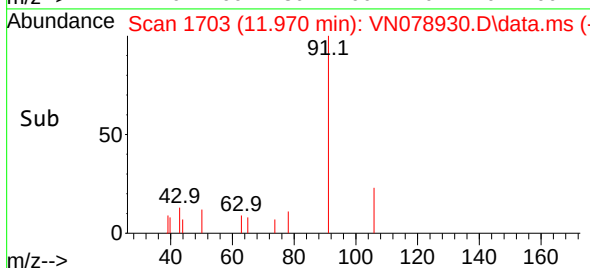
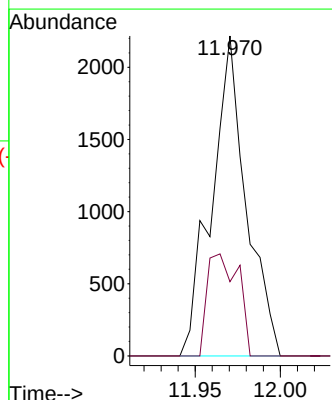
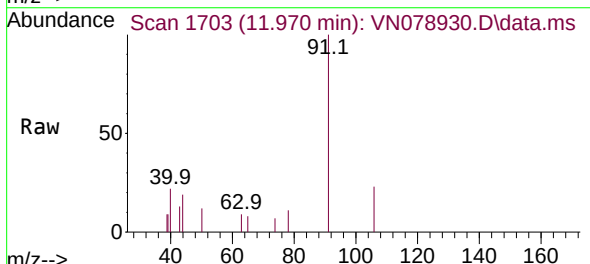
Instrument :
MSVOA_N
ClientSampleId :

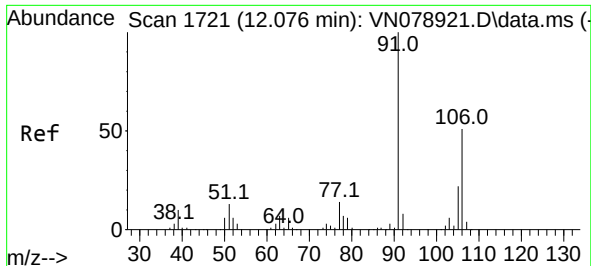
Tgt Ion: 98 Resp: 300571
Ion Ratio Lower Upper
98 100
100 66.0 51.1 76.7



#66
Ethyl Benzene
Concen: 0.253 ug/l
RT: 11.970 min Scan# 1703
Delta R.T. 0.006 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

Tgt Ion: 91 Resp: 3129
Ion Ratio Lower Upper
91 100
106 23.2 24.1 36.1#





#67

m/p-Xylenes

Concen: 0.702 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.006 min

Lab File: VN078930.D

Acq: 17 Aug 2023 17:05

Instrument :

MSVOA_N

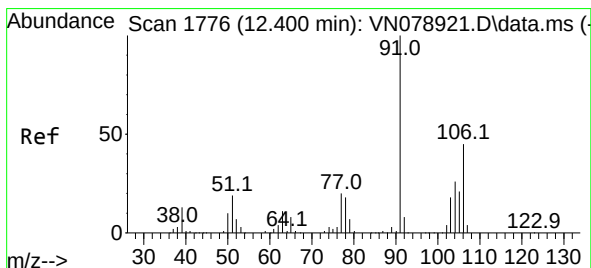
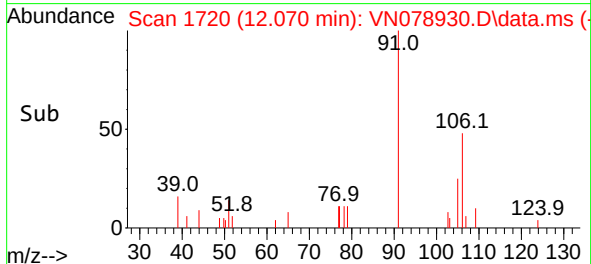
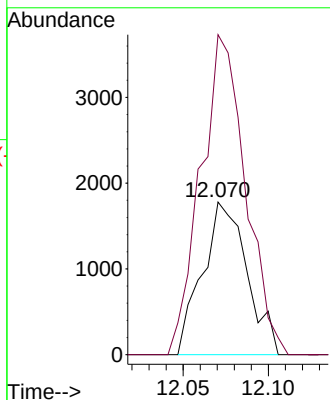
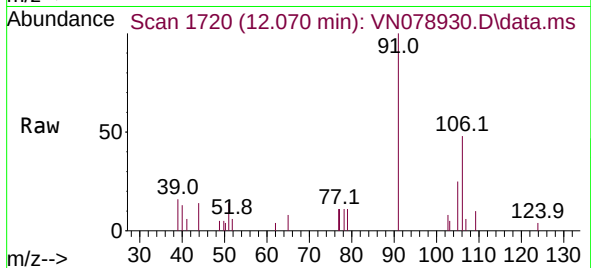
ClientSampleId :

Tgt Ion:106 Resp: 3233

Ion Ratio Lower Upper

106 100

91 211.1 161.2 241.8



#68

o-Xylene

Concen: 0.711 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.329 min

Lab File: VN078930.D

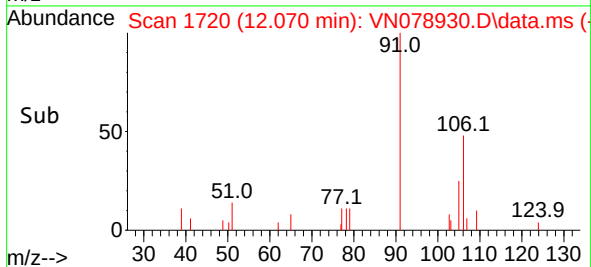
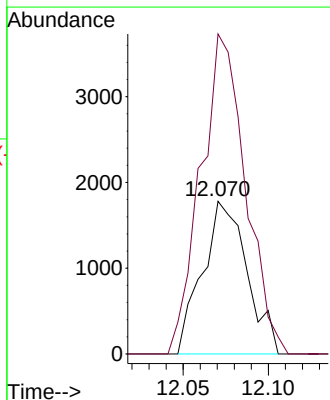
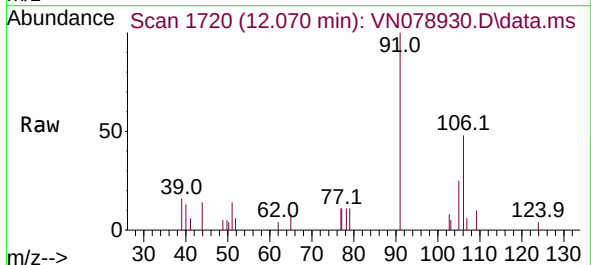
Acq: 17 Aug 2023 17:05

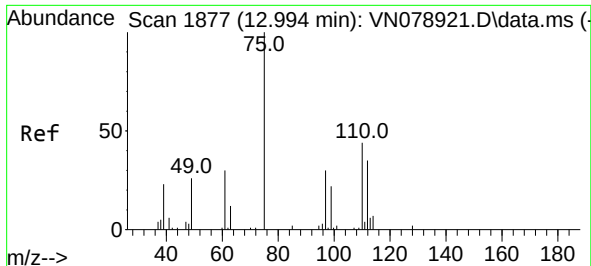
Tgt Ion:106 Resp: 3233

Ion Ratio Lower Upper

106 100

91 211.1 109.0 327.0

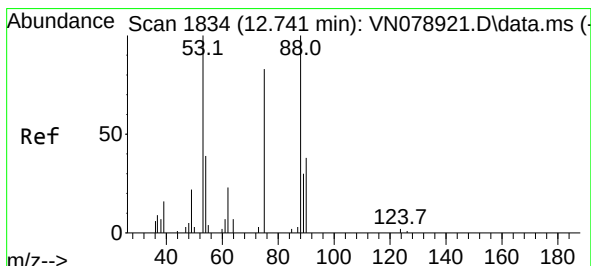
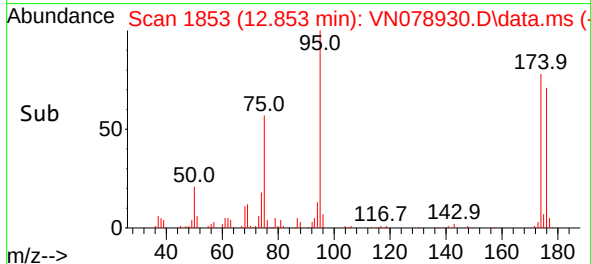
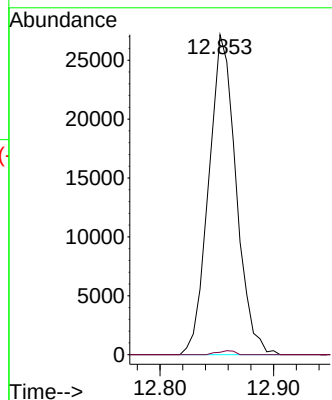
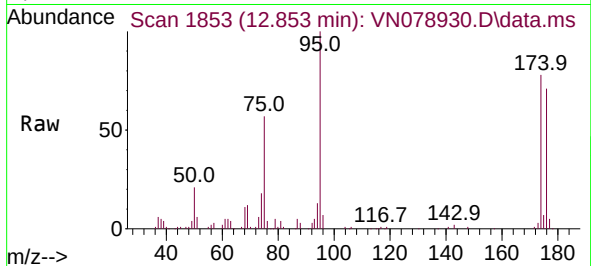




#72
1,2,3-Trichloropropane
Concen: 13.437 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

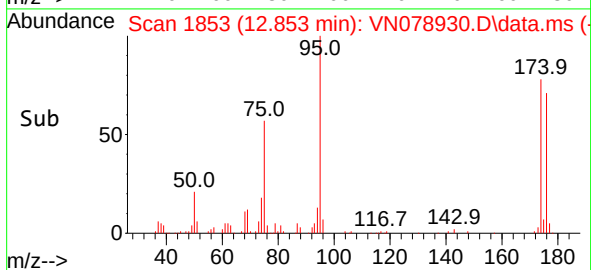
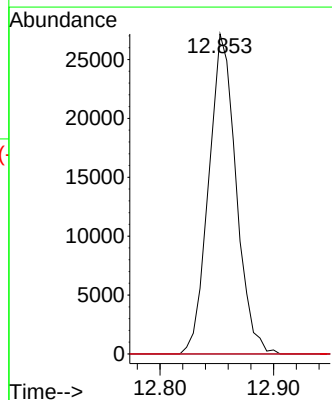
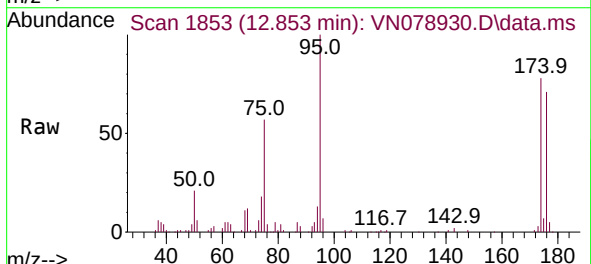
Instrument :
MSVOA_N
ClientSampleId :

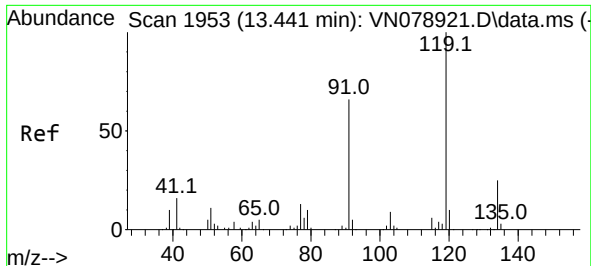
Tgt Ion: 75 Resp: 45499
Ion Ratio Lower Upper
75 100
77 0.8 0.0 367.4



#77
t-1,4-Dichloro-2-butene
Concen: 36.158 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

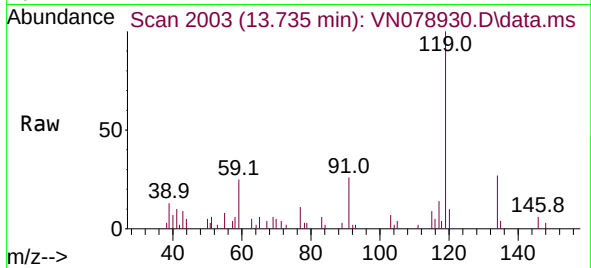
Tgt Ion: 75 Resp: 45499
Ion Ratio Lower Upper
75 100
53 0.0 60.1 180.3#
89 0.0 22.9 68.8#



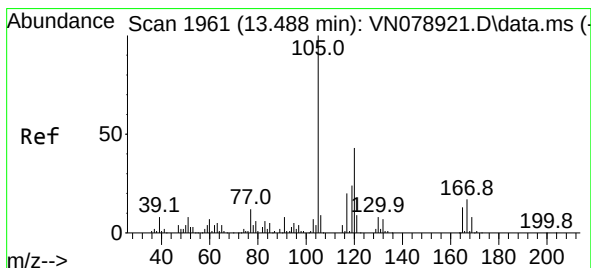
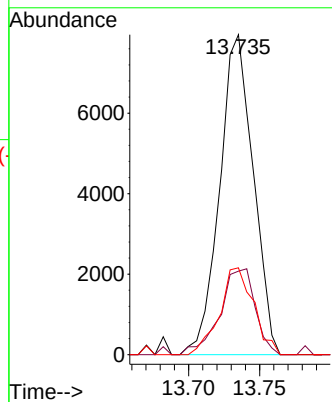
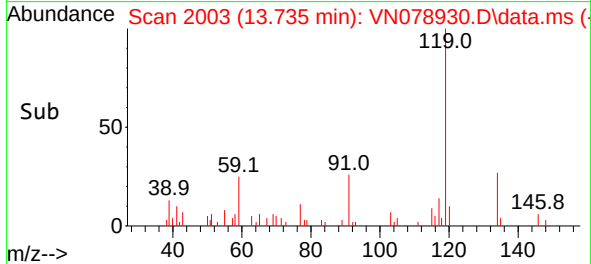


#79
tert-butylbenzene
Concen: 1.775 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.294 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05

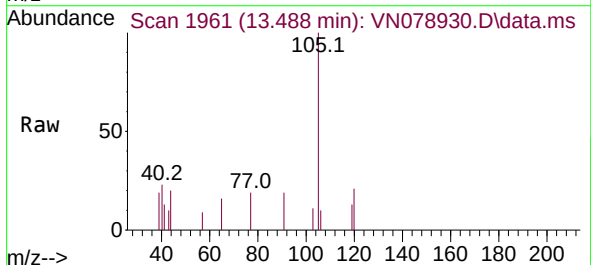
Instrument :
MSVOA_N
ClientSampleId :



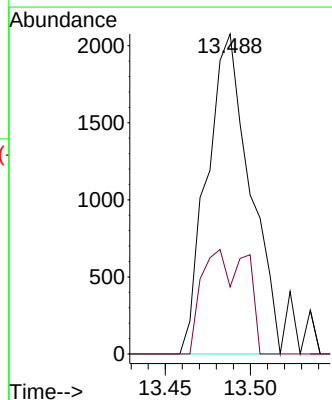
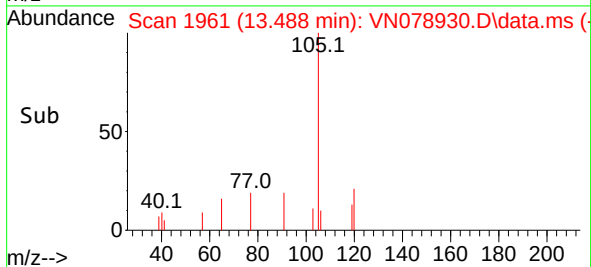
Tgt Ion:119 Resp: 13093
Ion Ratio Lower Upper
119 100
91 28.2 0.0 135.6
134 27.4 0.0 51.4

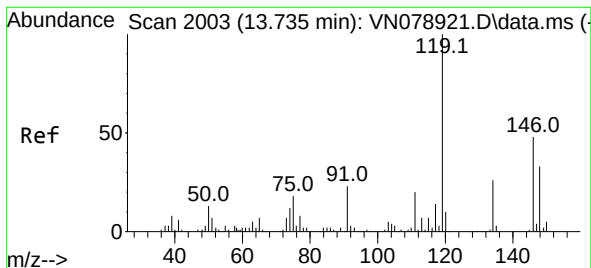


#80
1,2,4-Trimethylbenzene
Concen: 0.424 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.000 min
Lab File: VN078930.D
Acq: 17 Aug 2023 17:05



Tgt Ion:105 Resp: 3642
Ion Ratio Lower Upper
105 100
120 21.6 0.0 91.6





#82

p-Isopropyltoluene

Concen: 1.648 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN078930.D

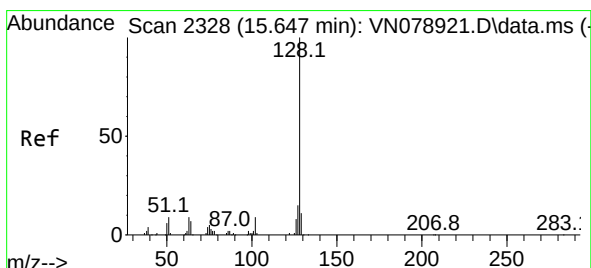
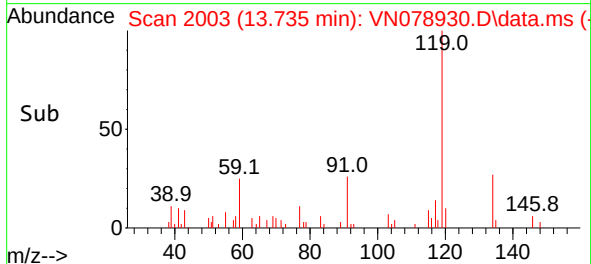
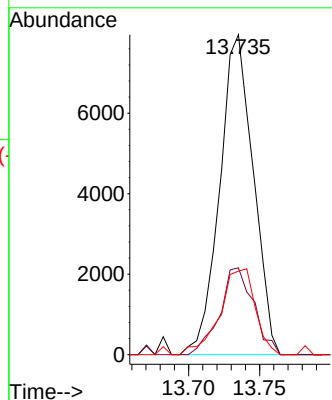
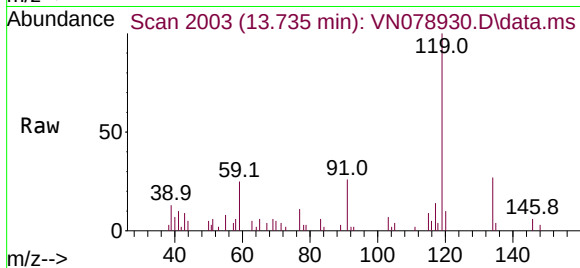
Acq: 17 Aug 2023 17:05

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	119	Resp:	13093
Ion Ratio	Lower	Upper	
119	100		
134	27.4	0.0	52.4
91	28.2	0.0	47.4



#91

Naphthalene

Concen: 0.448 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. 0.000 min

Lab File: VN078930.D

Acq: 17 Aug 2023 17:05

Tgt Ion:	128	Resp:	2362
Ion Ratio	Lower	Upper	
128	100		
127	0.0	11.1	16.7#
129	0.0	8.6	13.0#

