

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090823\
 Data File : VN079204.D
 Acq On : 08 Sep 2023 17:54
 Operator : JC\MD
 Sample : 04376-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 08 23:18:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

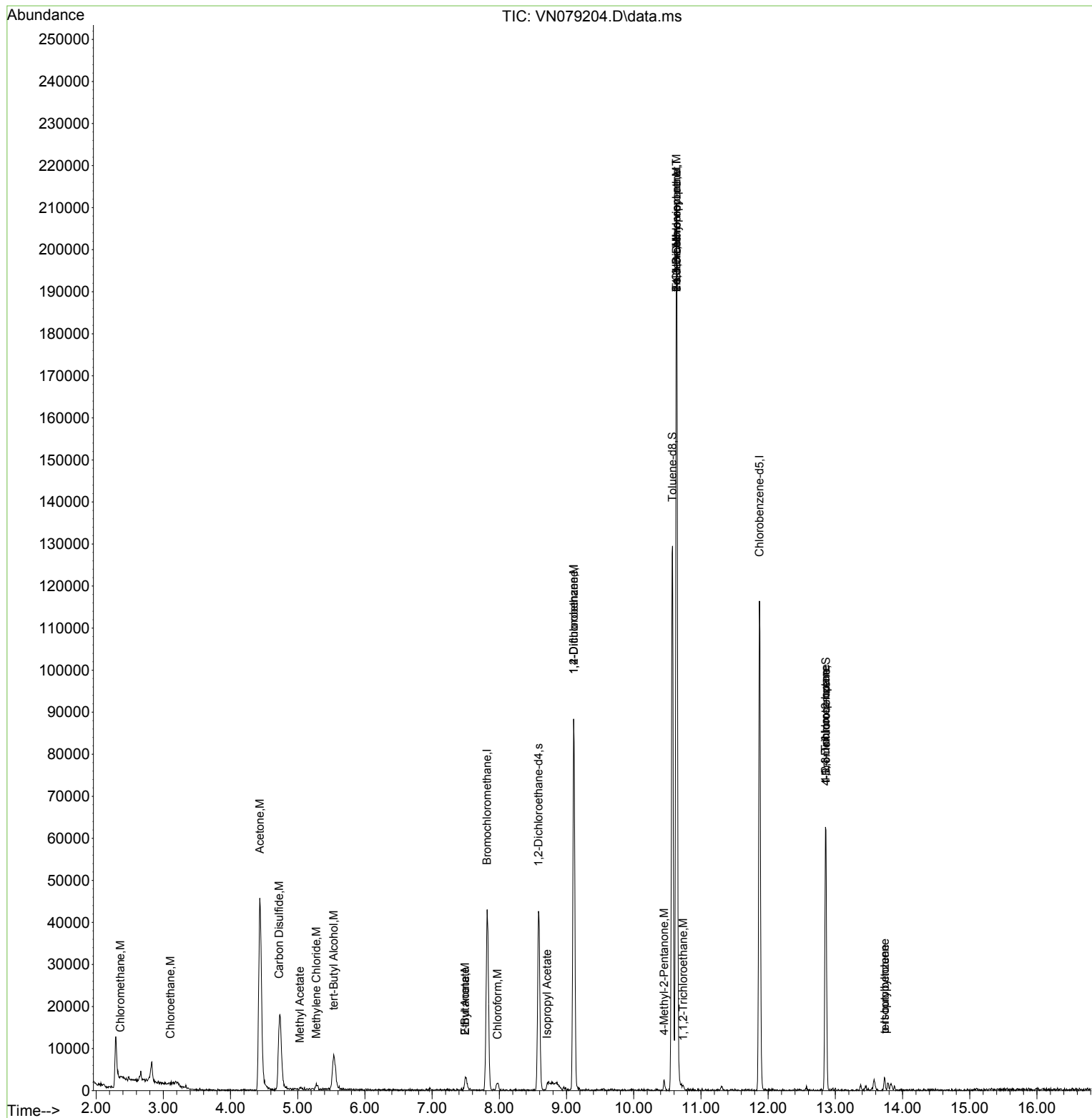
Internal Standards						
1) Bromochloromethane	7.818	128	15425	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	76264	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	69040	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	36805	31.759	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	105.867%
60) 4-Bromofluorobenzene	12.859	95	22946	22.556	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	75.200%
63) Toluene-d8	10.577	98	93815	29.077	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.933%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	210	0.243	ug/l #	45
6) Chloroethane	3.106	64	512	0.980	ug/l #	50
12) Methyl Acetate	5.030	43	375	0.297	ug/l #	50
15) Acetone	4.436	58	27713	286.394	ug/l	82
16) Carbon Disulfide	4.724	76	545	0.340	ug/l #	76
18) Methylene Chloride	5.277	84	741	1.018	ug/l #	72
23) tert-Butyl Alcohol	5.536	59	14350	100.562	ug/l #	100
25) Chloroform	7.971	83	2166	1.178	ug/l	89
30) 2-Butanone	7.489	43	5509	8.957	ug/l #	54
36) 1,2-Dichloroethane	9.106	62	2501	1.952	ug/l #	73
43) Ethyl Acetate	7.489	43	5509	4.716	ug/l #	66
44) Isopropyl Acetate	8.712	43	836	0.398	ug/l	92
48) t-1,3-Dichloropropene	10.635	75	1072	0.752	ug/l #	1
49) cis-1,3-Dichloropropene	10.635	75	1072	0.721	ug/l #	1
50) 1,1,2-Trichloroethane	10.735	97	812	0.876	ug/l #	15
55) 2-Chloroethyl vinyl ether	10.635	63	9976	19.609	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	1614	1.274	ug/l #	87
62) Toluene	10.635	91	162348	40.387	ug/l	100
72) 1,2,3-Trichloropropane	12.853	75	11872	10.103	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.853	75	11872	28.696	ug/l #	14
79) tert-butylbenzene	13.735	119	1762	0.695	ug/l	58
82) p-Isopropyltoluene	13.735	119	1762	0.643	ug/l	93

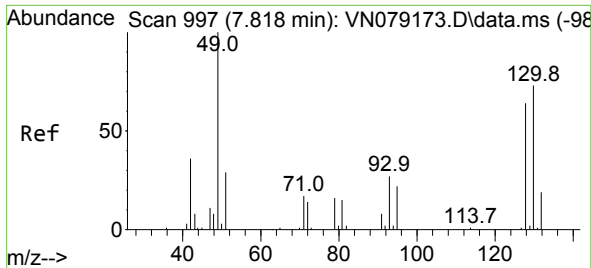
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 08 05:09:17 2023
Response via : Initial Calibration

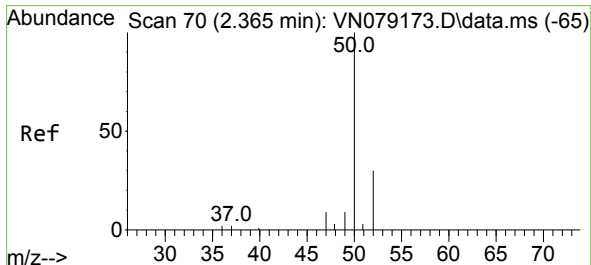
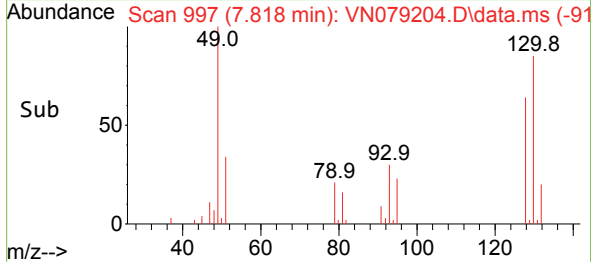
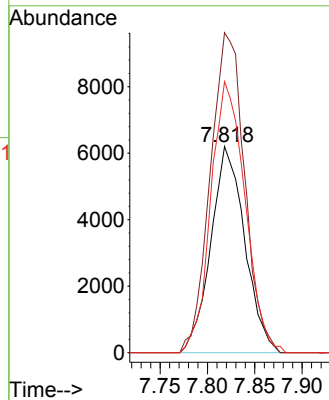
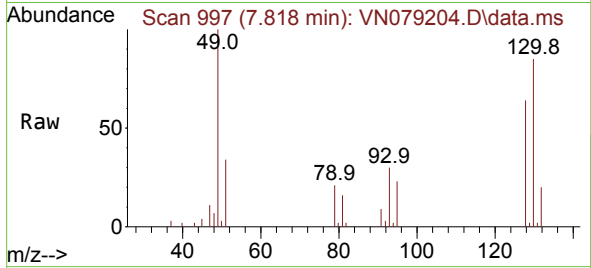




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

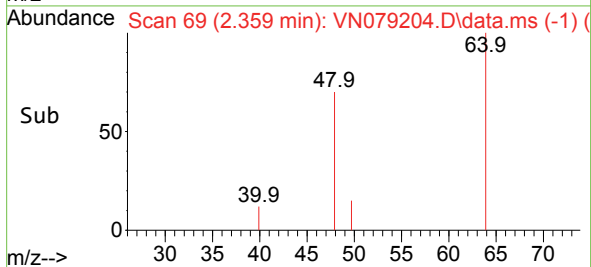
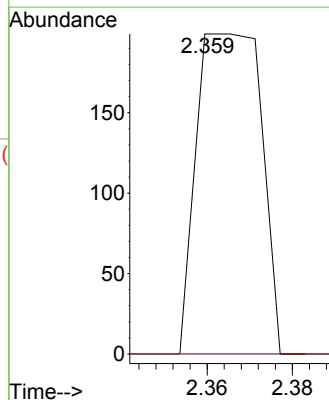
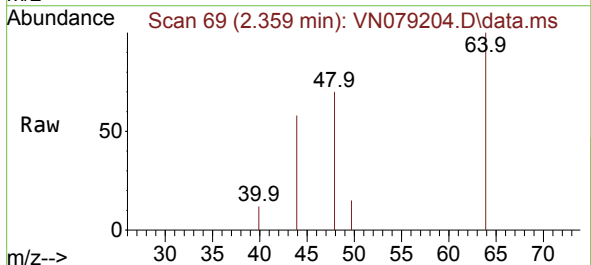
Instrument :
MSVOA_N
ClientSampleId :

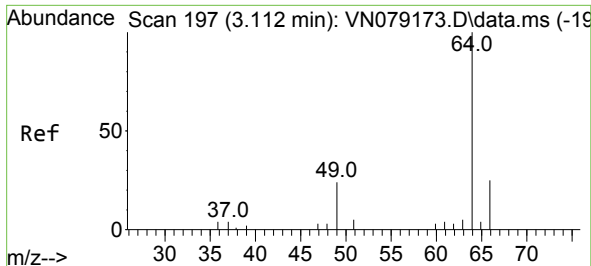
Tgt Ion	Ratio	Lower	Upper
128	100		
49	157.2	0.0	414.3
130	132.9	0.0	311.0



#3
Chloromethane
Concen: 0.243 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.006 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

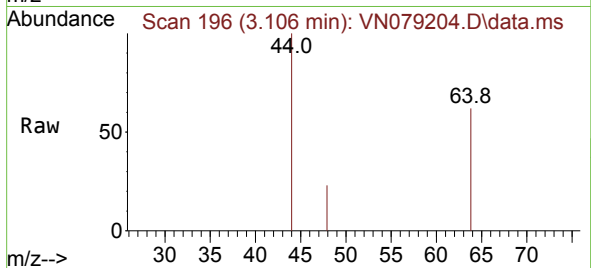
Tgt Ion	Ratio	Lower	Upper
50	100		
52	0.0	24.0	36.0



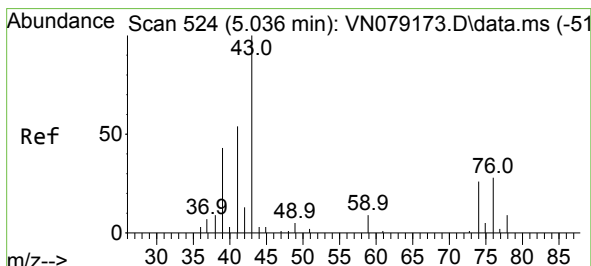
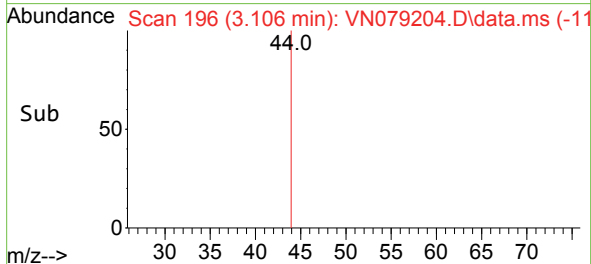
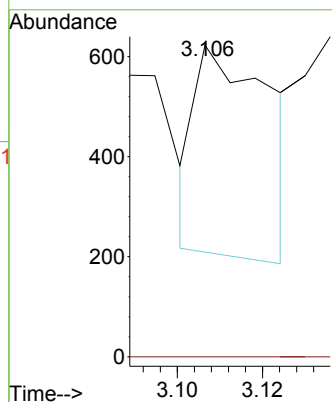


#6
Chloroethane
Concen: 0.980 ug/l
RT: 3.106 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

Instrument :
MSVOA_N
ClientSampleId :

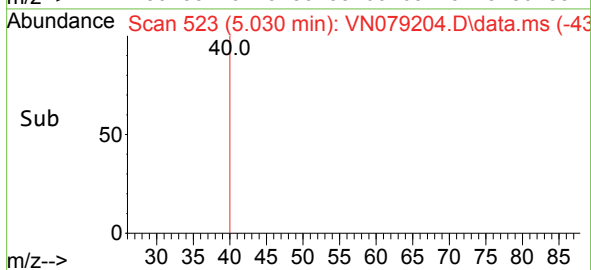
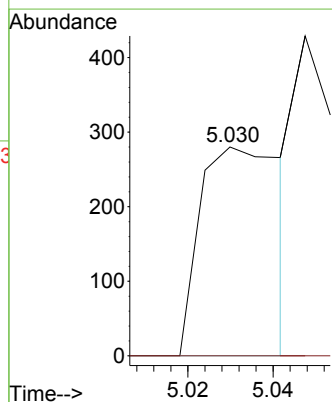
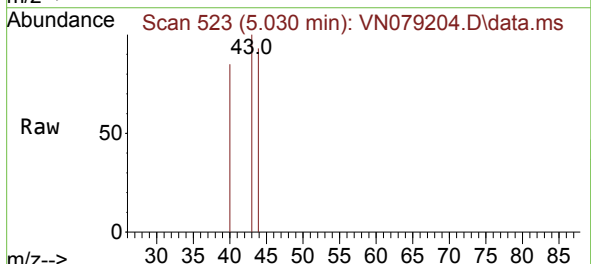


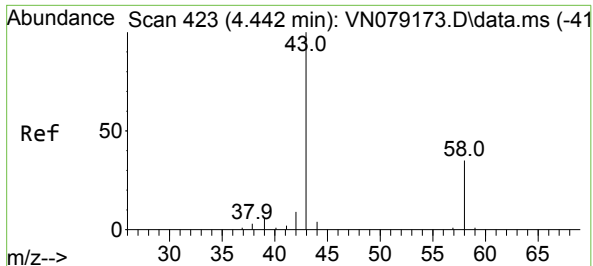
Tgt Ion: 64 Resp: 512
Ion Ratio Lower Upper
64 100
66 0.0 20.1 30.1#



#12
Methyl Acetate
Concen: 0.297 ug/l
RT: 5.030 min Scan# 523
Delta R.T. -0.006 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

Tgt Ion: 43 Resp: 375
Ion Ratio Lower Upper
43 100
74 0.0 20.4 30.6#

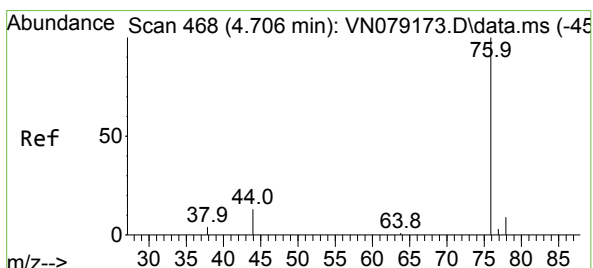
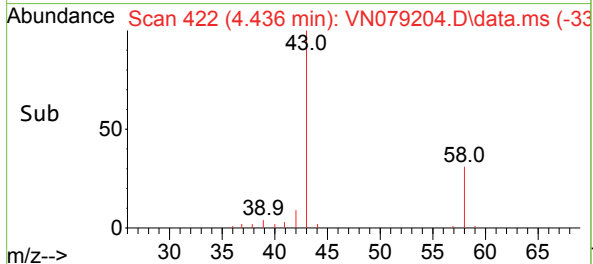
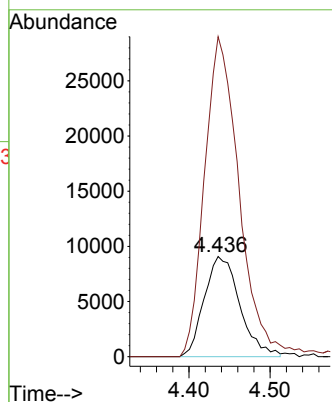
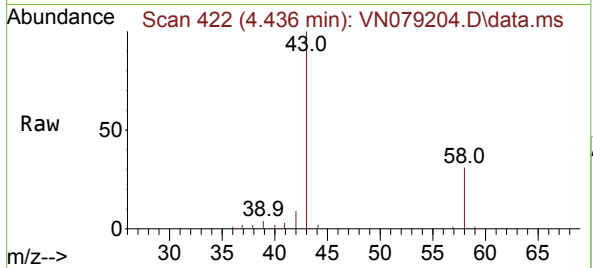




#15
Acetone
Concen: 286.394 ug/l
RT: 4.436 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

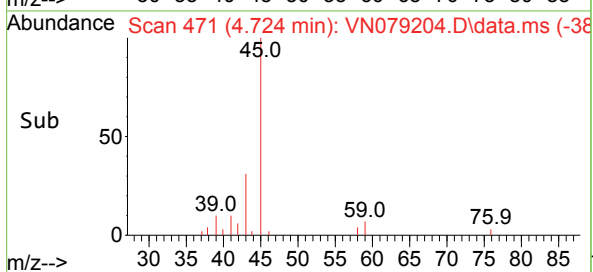
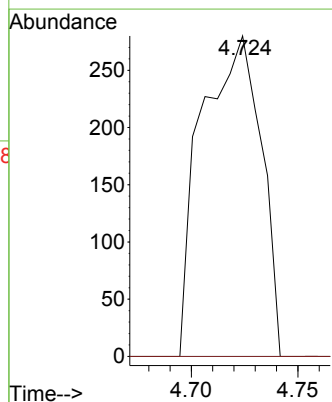
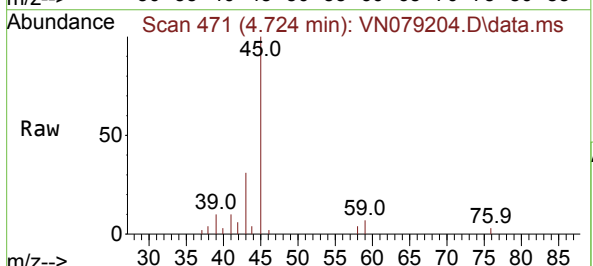
Instrument :
MSVOA_N
ClientSampleId :

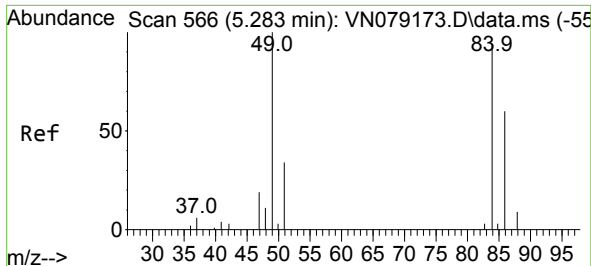
Tgt Ion: 58 Resp: 27713
Ion Ratio Lower Upper
58 100
43 319.6 228.3 342.5



#16
Carbon Disulfide
Concen: 0.340 ug/l
RT: 4.724 min Scan# 471
Delta R.T. 0.018 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

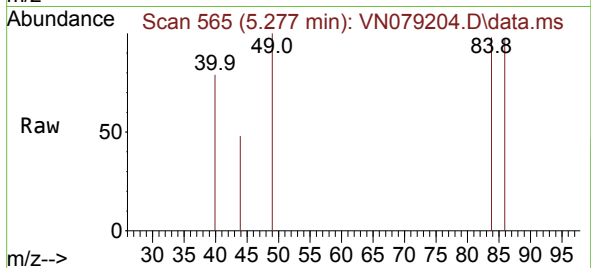
Tgt Ion: 76 Resp: 545
Ion Ratio Lower Upper
76 100
78 0.0 6.9 10.3#



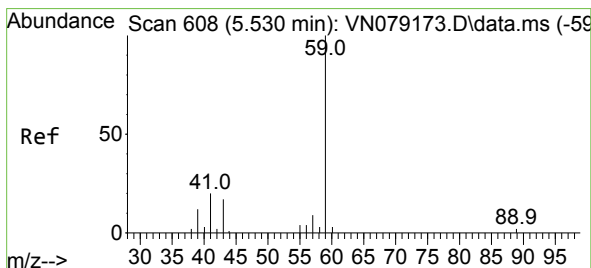
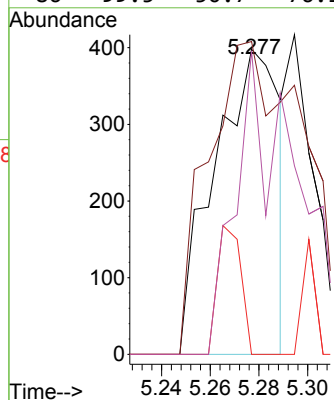


#18
Methylene Chloride
Concen: 1.018 ug/l
RT: 5.277 min Scan# 509
Delta R.T. -0.006 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

Instrument :
MSVOA_N
ClientSampleId :

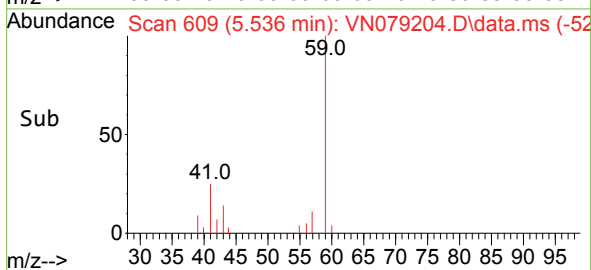
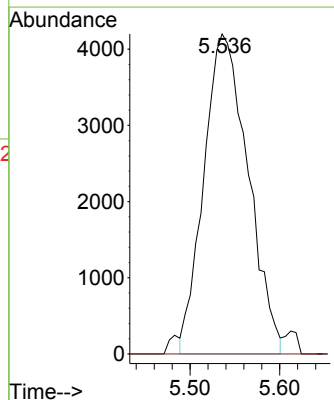
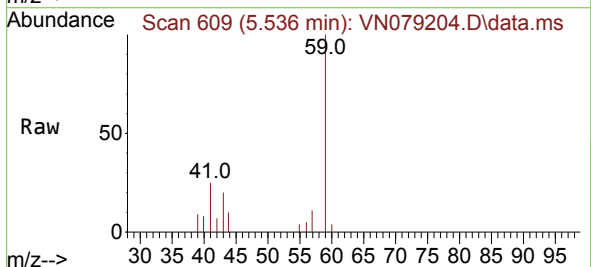


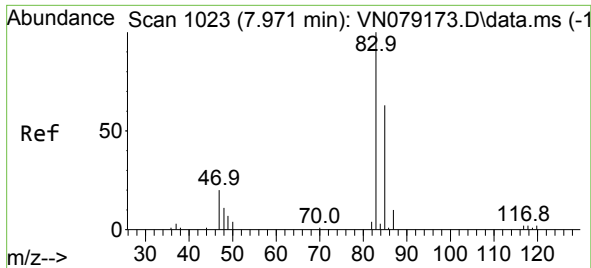
Tgt Ion:	84	Resp:	741
Ion	Ratio	Lower	Upper
84	100		
49	102.5	86.9	130.3
51	0.0	28.6	43.0#
86	99.5	50.7	76.1#



#23
tert-Butyl Alcohol
Concen: 100.562 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.006 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

Tgt Ion:	59	Resp:	14350
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

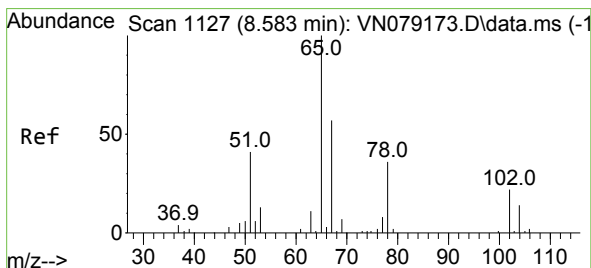
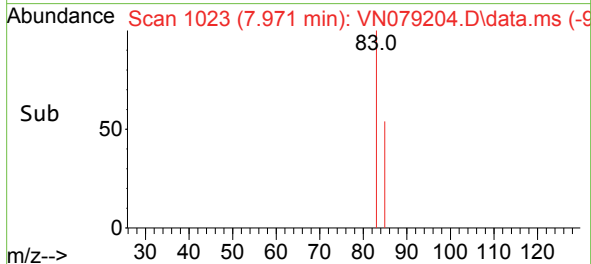
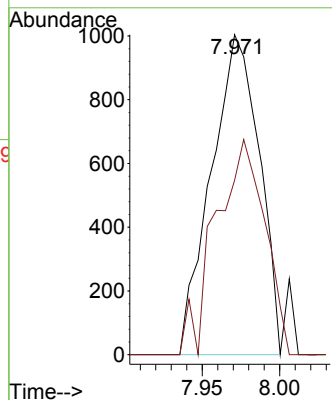
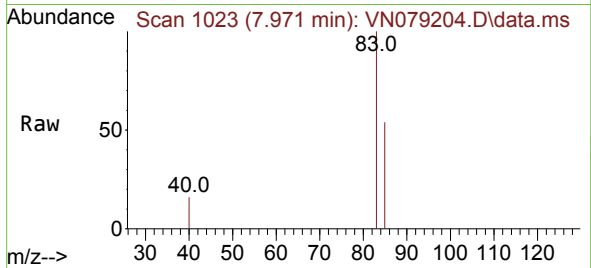




#25
Chloroform
Concen: 1.178 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.000 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

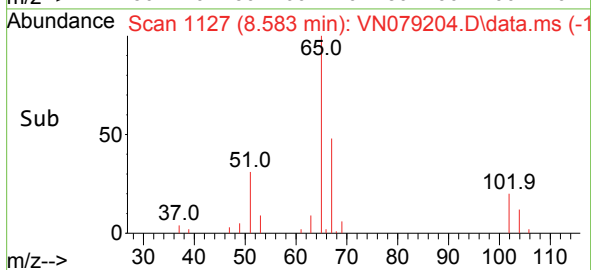
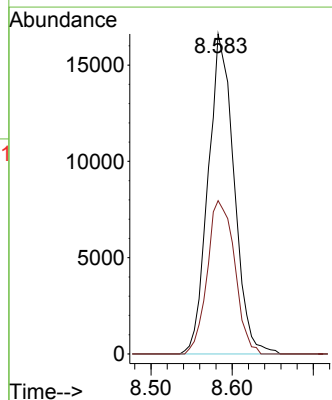
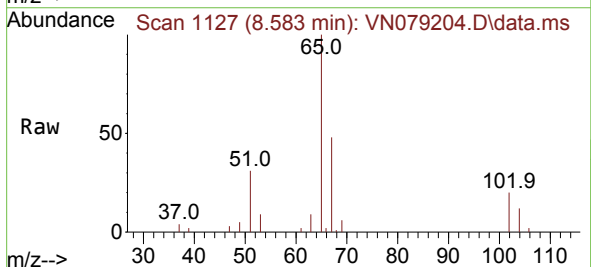
Instrument :
MSVOA_N
ClientSampleId :

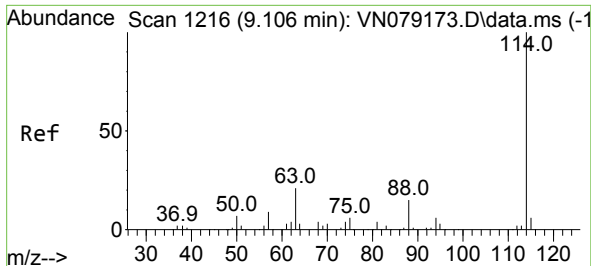
Tgt Ion: 83 Resp: 2166
Ion Ratio Lower Upper
83 100
85 54.5 50.6 76.0



#27
1,2-Dichloroethane-d4
Concen: 31.759 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

Tgt Ion: 65 Resp: 36805
Ion Ratio Lower Upper
65 100
67 50.6 44.4 66.6





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 114

Delta R.T. 0.000 min

Lab File: VN079204.D

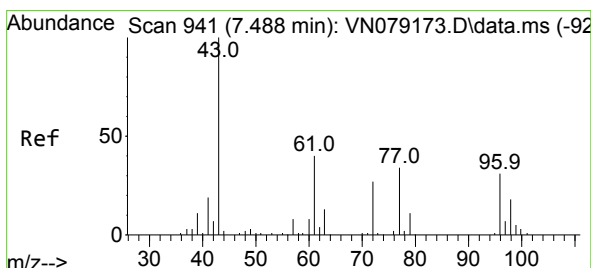
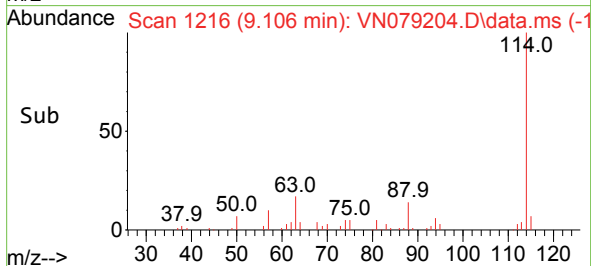
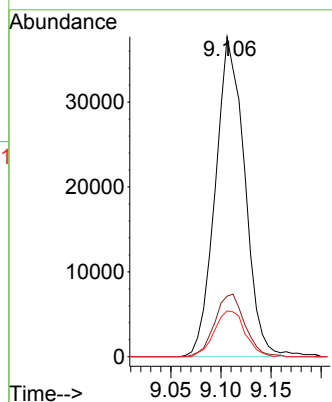
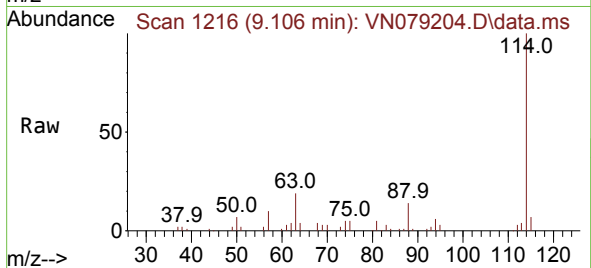
Acq: 08 Sep 2023 17:54

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:114	Resp:	76264
Ion Ratio	Lower	Upper
114	100	
63	20.1	17.0 25.4
88	15.0	12.8 19.2



#30

2-Butanone

Concen: 8.957 ug/l

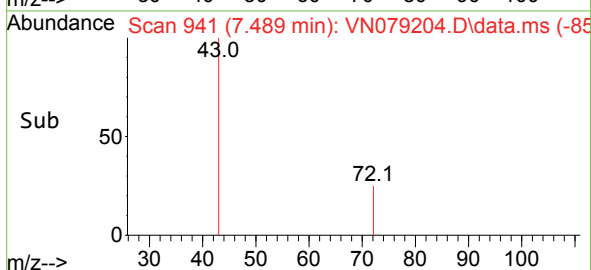
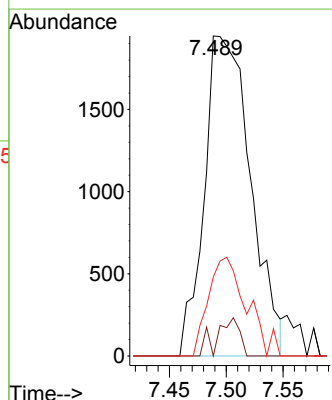
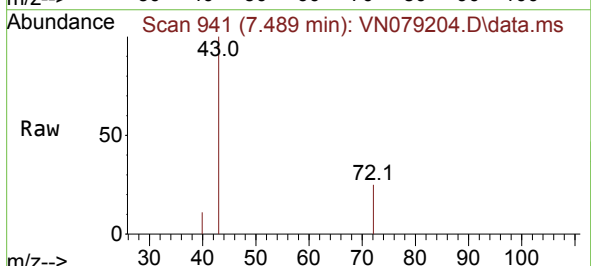
RT: 7.489 min Scan# 941

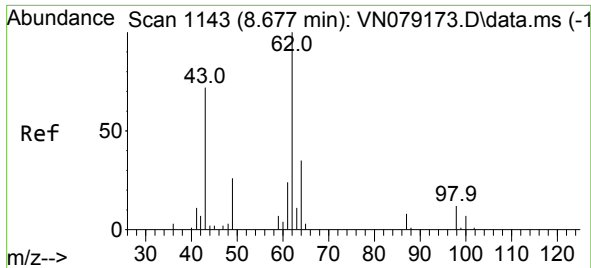
Delta R.T. 0.001 min

Lab File: VN079204.D

Acq: 08 Sep 2023 17:54

Tgt Ion: 43	Resp:	5509
Ion Ratio	Lower	Upper
43	100	
57	1.1	6.8 10.2#
72	0.0	22.4 33.6#





#36

1,2-Dichloroethane

Concen: 1.952 ug/l

RT: 9.106 min Scan# 1143

Delta R.T. 0.429 min

Lab File: VN079204.D

Acq: 08 Sep 2023 17:54

Instrument :

MSVOA_N

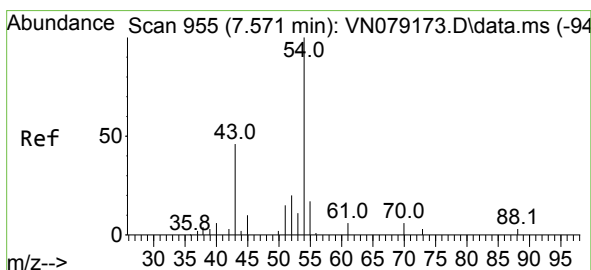
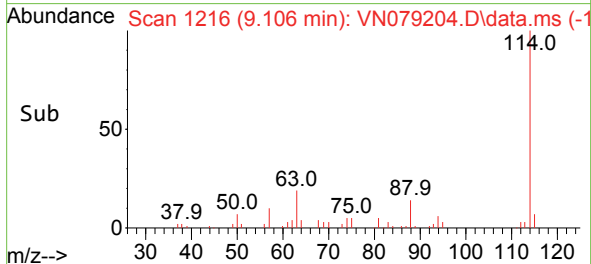
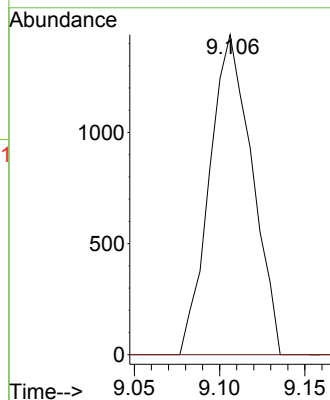
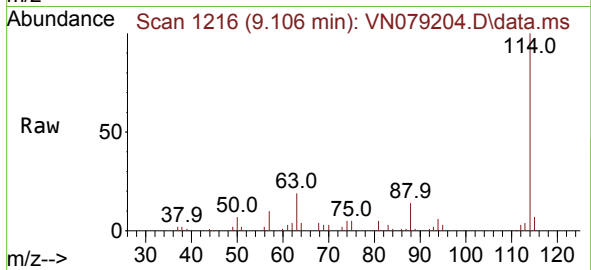
ClientSampleId :

Tgt Ion: 62 Resp: 2501

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.2#



#43

Ethyl Acetate

Concen: 4.716 ug/l

RT: 7.489 min Scan# 941

Delta R.T. -0.082 min

Lab File: VN079204.D

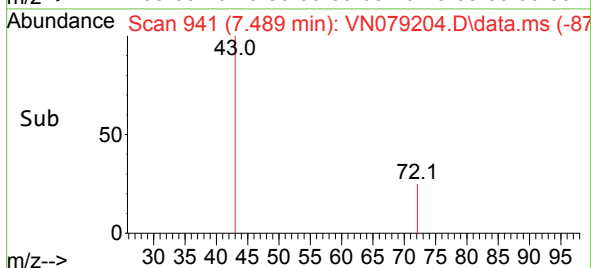
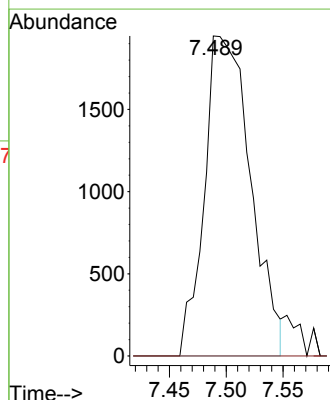
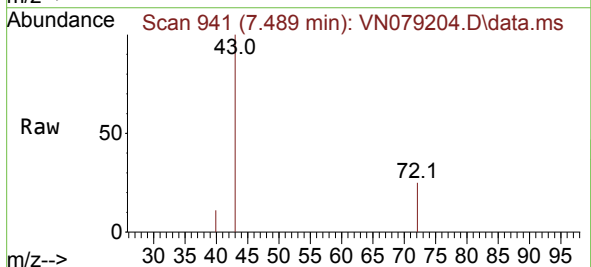
Acq: 08 Sep 2023 17:54

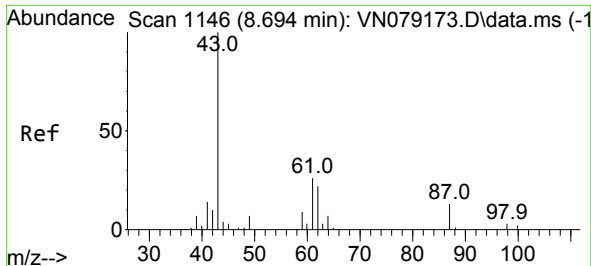
Tgt Ion: 43 Resp: 5509

Ion Ratio Lower Upper

43 100

45 0.0 11.1 16.7#

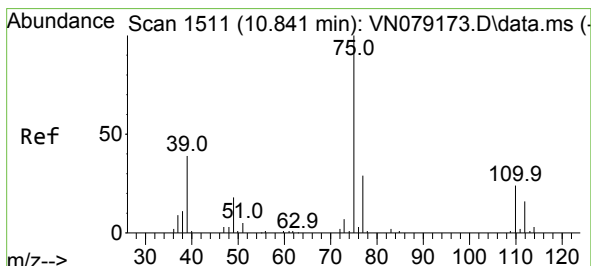
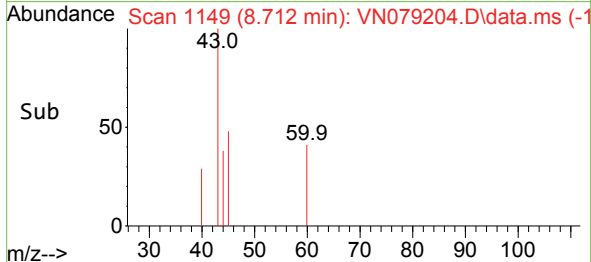
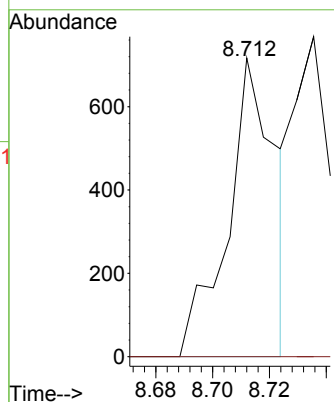
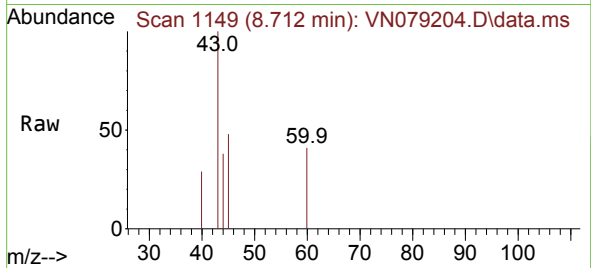




#44
Isopropyl Acetate
Concen: 0.398 ug/l
RT: 8.712 min Scan# 1149
Delta R.T. 0.018 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

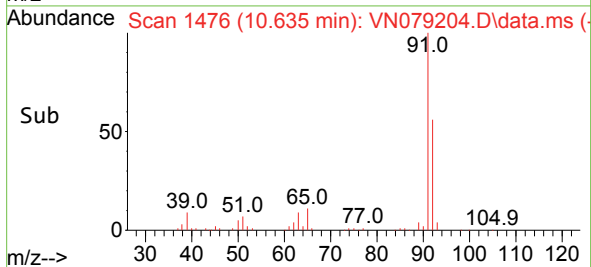
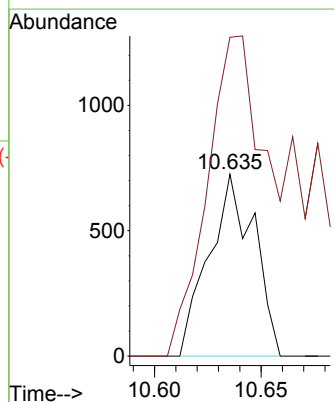
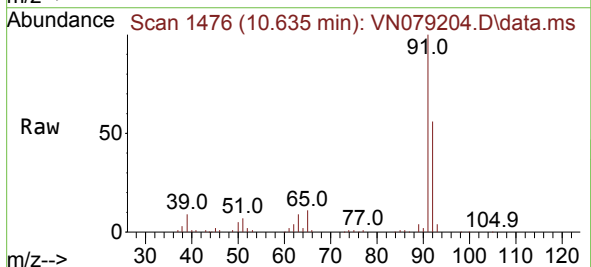
Instrument :
MSVOA_N
ClientSampleId :

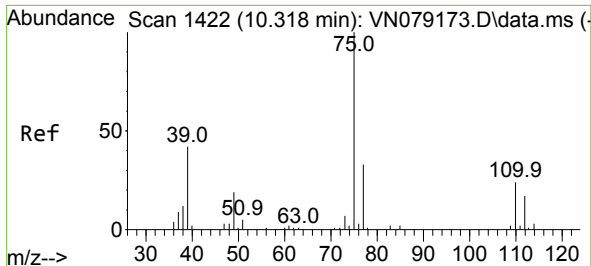
Tgt Ion: 43 Resp: 836
Ion Ratio Lower Upper
43 100
61 32.5 22.6 33.8



#48
t-1,3-Dichloropropene
Concen: 0.752 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.206 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

Tgt Ion: 75 Resp: 1072
Ion Ratio Lower Upper
75 100
77 149.7 22.9 34.3#





#49

cis-1,3-Dichloropropene

Concen: 0.721 ug/l

RT: 10.635 min Scan# 1493

Delta R.T. 0.317 min

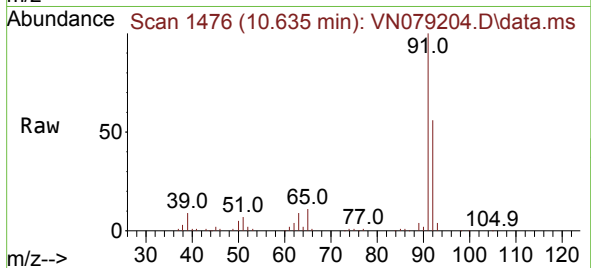
Lab File: VN079204.D

Acq: 08 Sep 2023 17:54

Instrument :

MSVOA_N

ClientSampleId :



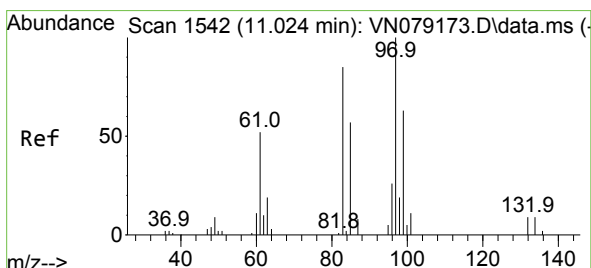
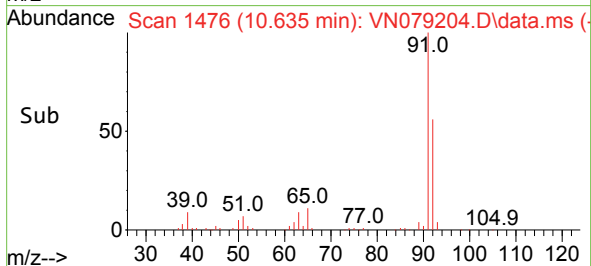
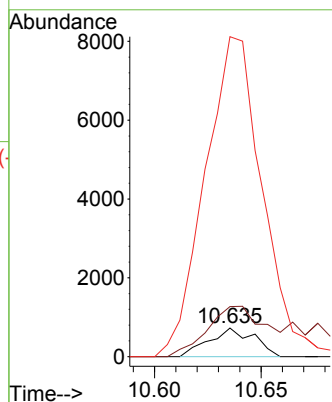
Tgt Ion: 75 Resp: 1072

Ion Ratio Lower Upper

75 100

77 149.7 26.2 39.2#

39 992.1 33.8 50.8#



#50

1,1,2-Trichloroethane

Concen: 0.876 ug/l

RT: 10.735 min Scan# 1493

Delta R.T. -0.289 min

Lab File: VN079204.D

Acq: 08 Sep 2023 17:54

Tgt Ion: 97 Resp: 812

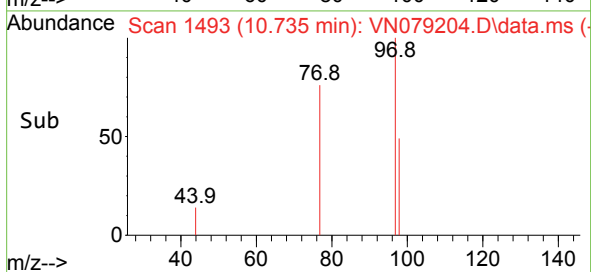
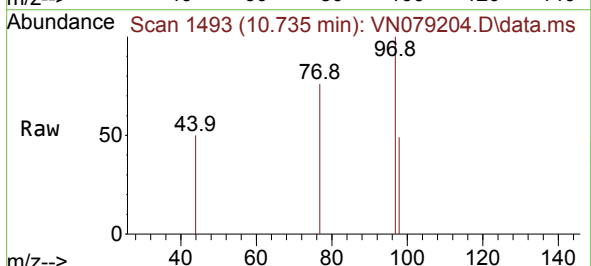
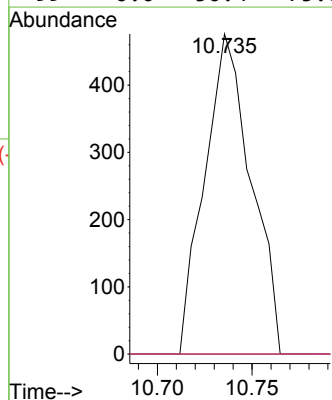
Ion Ratio Lower Upper

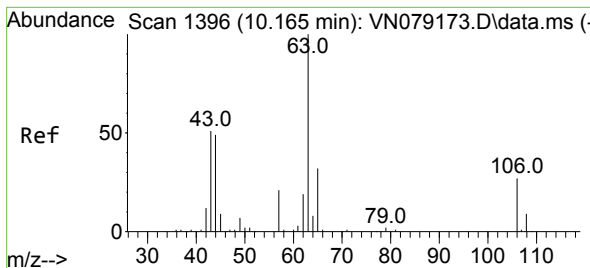
97 100

83 0.0 68.9 103.3#

85 0.0 45.3 67.9#

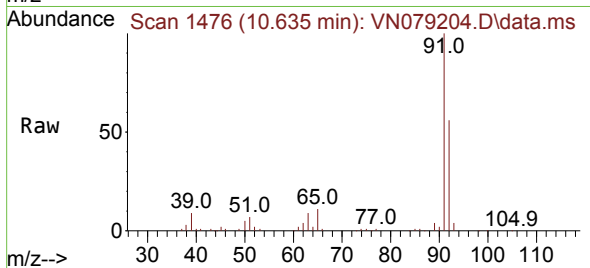
99 0.0 50.4 75.6#



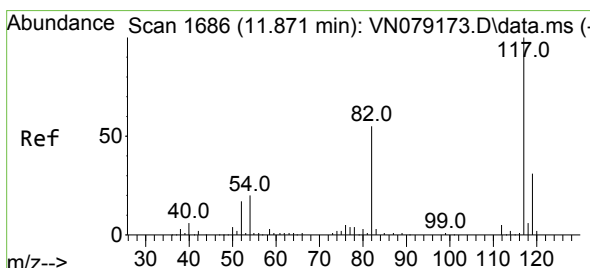
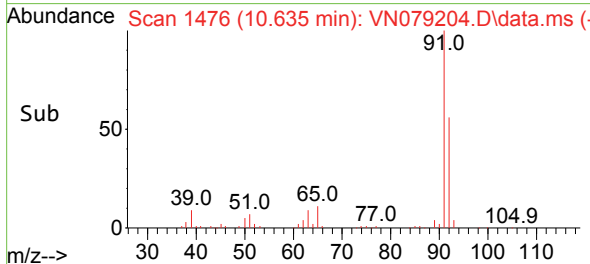
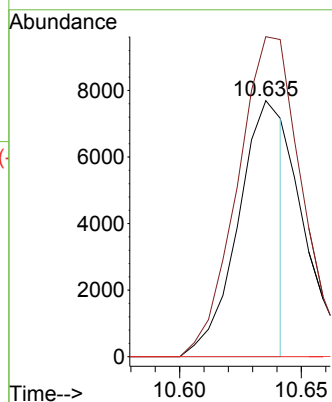


#55
2-Chloroethyl vinyl ether
Concen: 19.609 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.470 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

Instrument :
MSVOA_N
ClientSampleId :

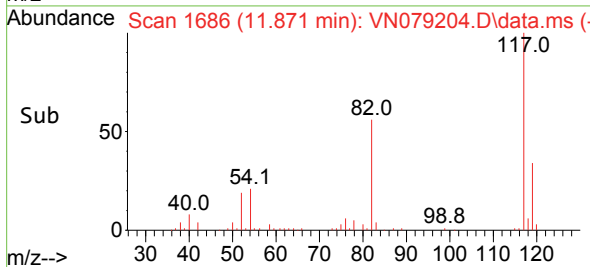
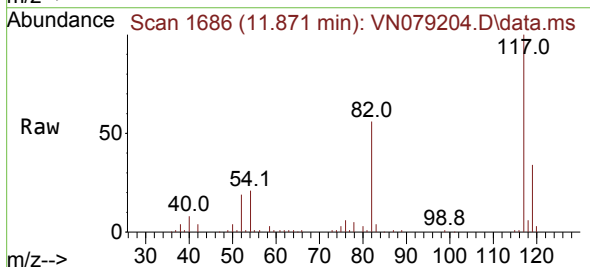
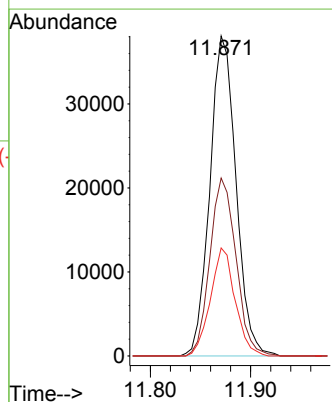


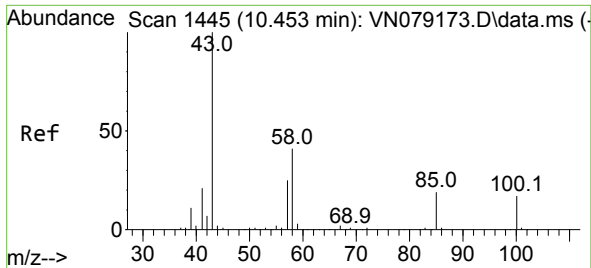
Tgt Ion: 63 Resp: 9976
Ion Ratio Lower Upper
63 100
65 129.8 25.7 38.5#
106 0.0 21.9 32.9#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

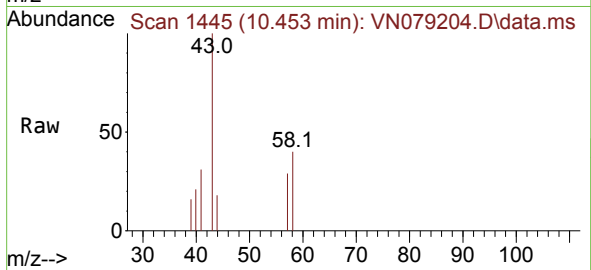
Tgt Ion: 117 Resp: 69040
Ion Ratio Lower Upper
117 100
82 55.5 44.7 67.1
119 31.9 24.9 37.3



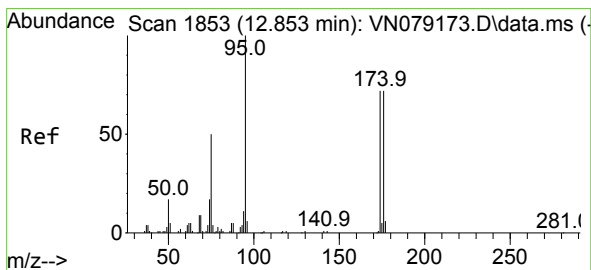
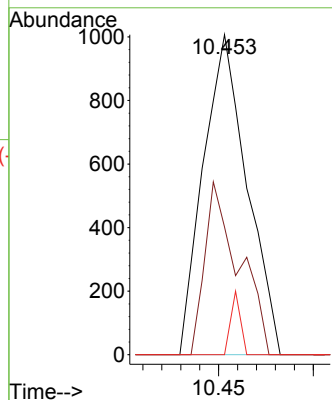


#58
4-Methyl-2-Pentanone
Concen: 1.274 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

Instrument :
MSVOA_N
ClientSampleId :

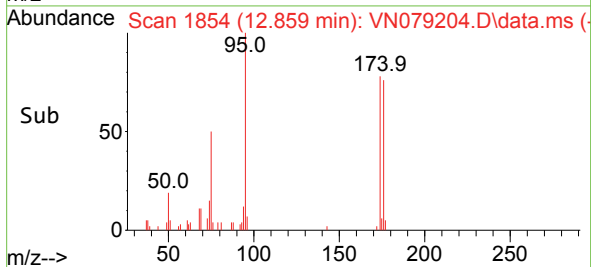
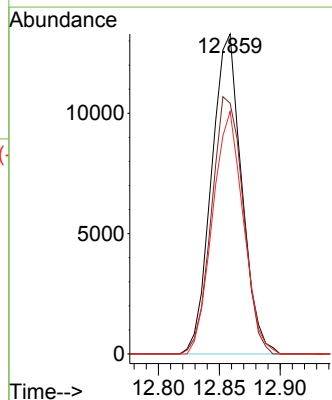
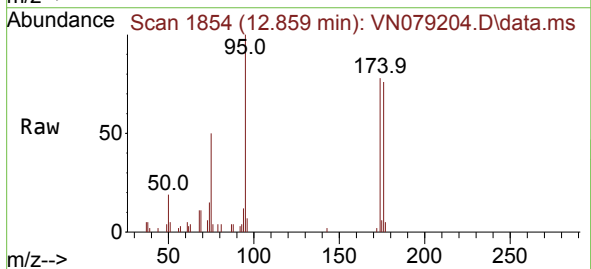


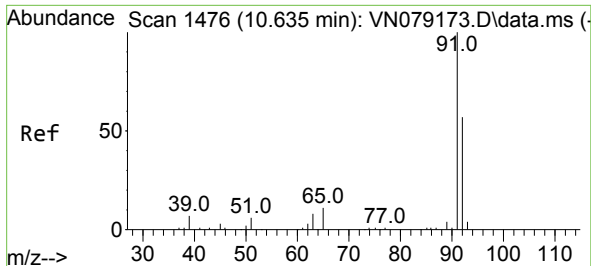
Tgt Ion:	43	Resp:	1614
Ion	Ratio	Lower	Upper
43	100		
58	42.2	33.6	50.4
85	0.0	15.0	22.4



#60
4-Bromofluorobenzene
Concen: 22.556 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

Tgt Ion:	95	Resp:	22946
Ion	Ratio	Lower	Upper
95	100		
174	84.1	59.5	89.3
176	77.3	59.1	88.7

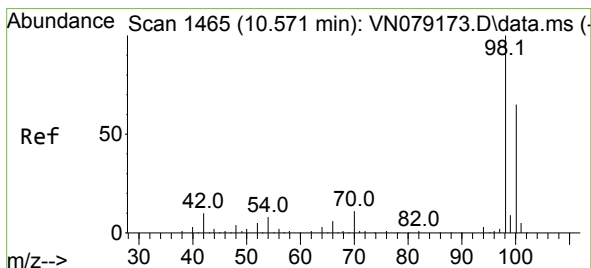
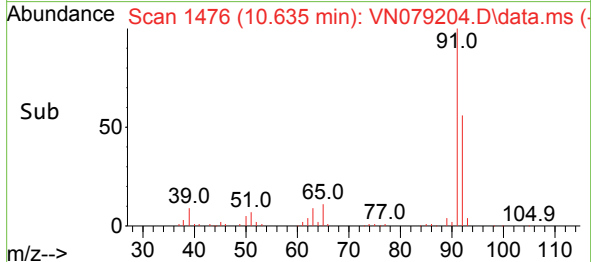
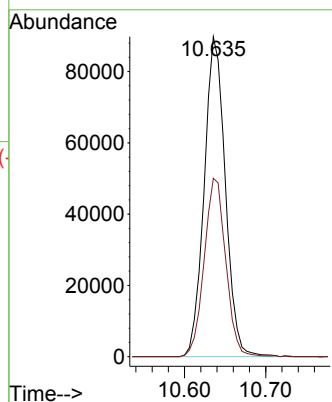
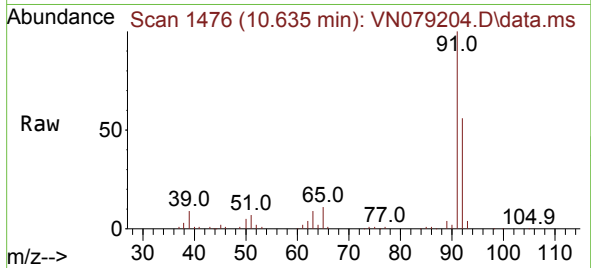




#62
Toluene
Concen: 40.387 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

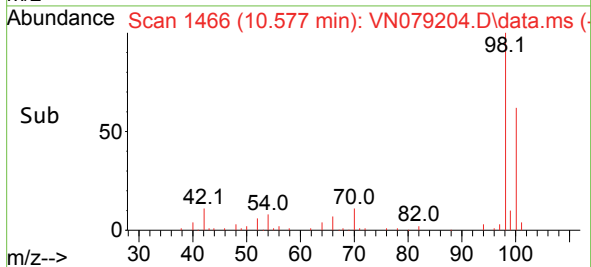
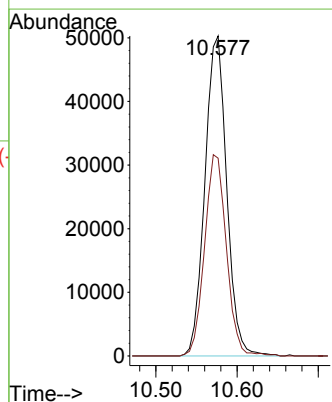
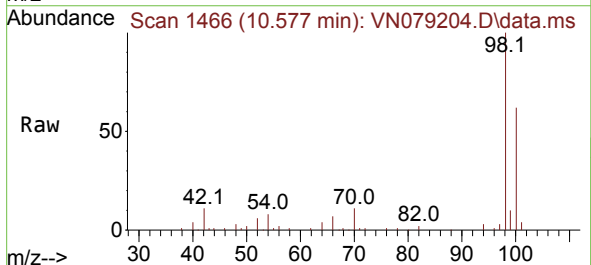
Instrument :
MSVOA_N
ClientSampleId :

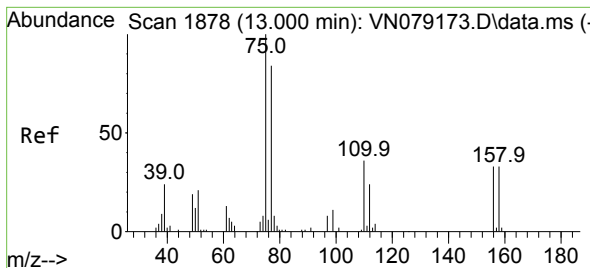
Tgt Ion: 91 Resp: 162348
Ion Ratio Lower Upper
91 100
92 56.8 45.7 68.5



#63
Toluene-d8
Concen: 29.077 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN079204.D
Acq: 08 Sep 2023 17:54

Tgt Ion: 98 Resp: 93815
Ion Ratio Lower Upper
98 100
100 63.0 52.5 78.7





#72

1,2,3-Trichloropropane

Concen: 10.103 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079204.D

Acq: 08 Sep 2023 17:54

Instrument :

MSVOA_N

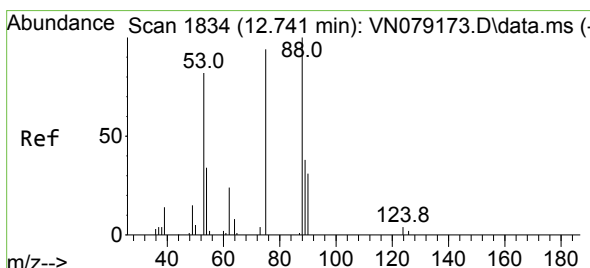
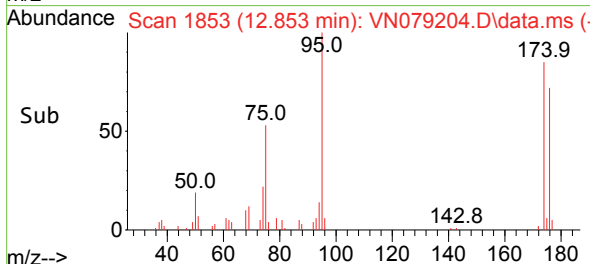
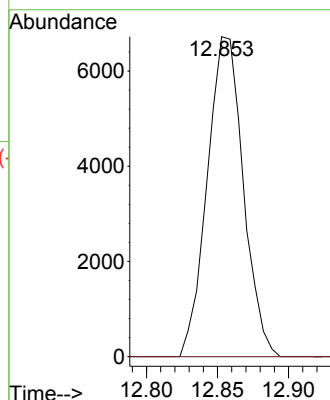
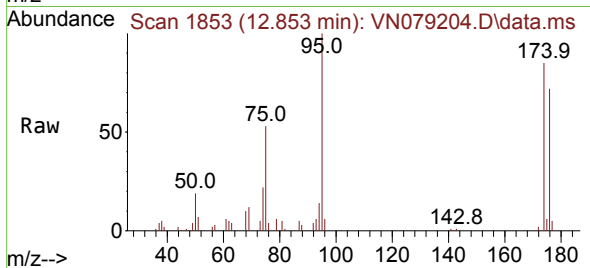
ClientSampleId :

Tgt Ion: 75 Resp: 11872

Ion Ratio Lower Upper

75 100

77 0.0 0.0 252.2



#77

t-1,4-Dichloro-2-butene

Concen: 28.696 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN079204.D

Acq: 08 Sep 2023 17:54

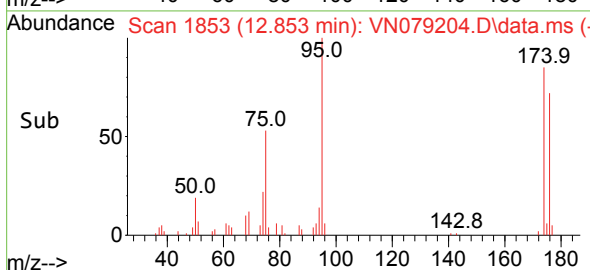
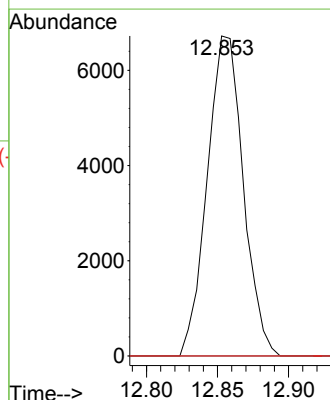
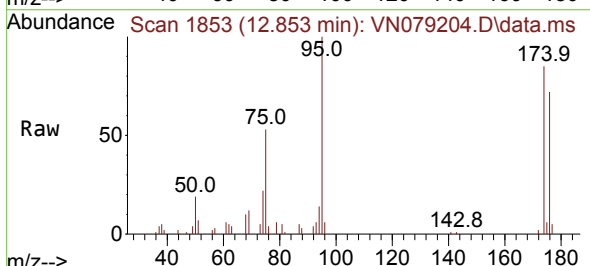
Tgt Ion: 75 Resp: 11872

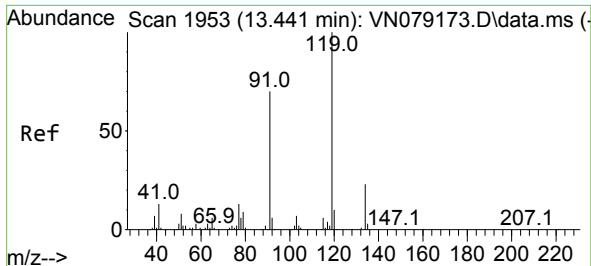
Ion Ratio Lower Upper

75 100

53 0.0 44.1 132.4#

89 0.0 22.4 67.3#





#79

tert-butylbenzene

Concen: 0.695 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.294 min

Lab File: VN079204.D

Acq: 08 Sep 2023 17:54

Instrument :

MSVOA_N

ClientSampleId :

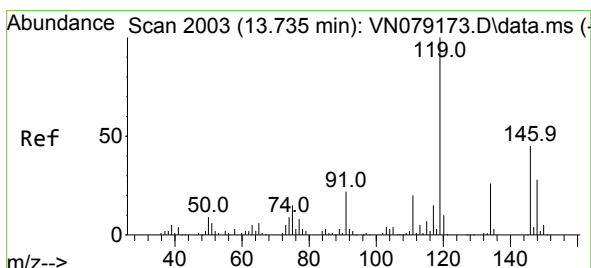
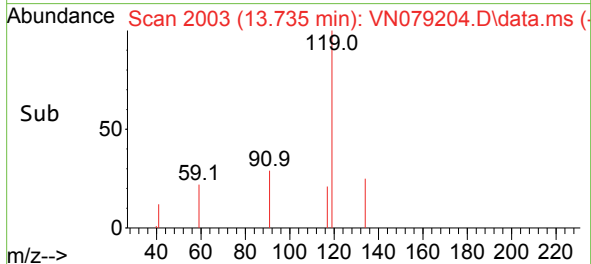
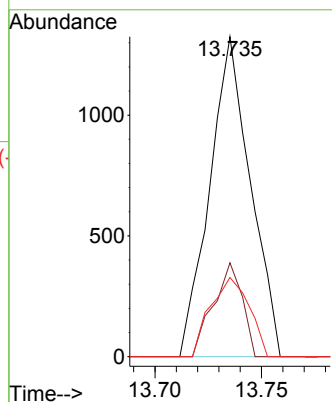
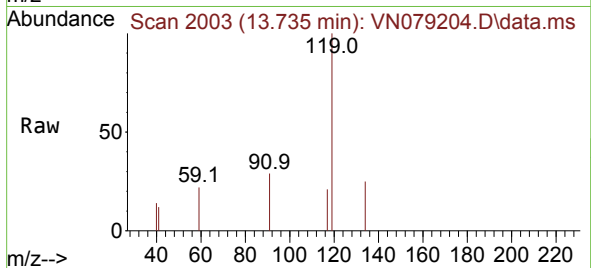
Tgt Ion:119 Resp: 1762

Ion Ratio Lower Upper

119 100

91 20.8 0.0 130.8

134 23.6 0.0 48.8



#82

p-Isopropyltoluene

Concen: 0.643 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN079204.D

Acq: 08 Sep 2023 17:54

Tgt Ion:119 Resp: 1762

Ion Ratio Lower Upper

119 100

134 23.6 0.0 53.8

91 20.8 0.0 48.0

