

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081123\
 Data File : VN078864.D
 Acq On : 11 Aug 2023 15:39
 Operator : JC\MD
 Sample : 03987-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(JULY)

Quant Time: Aug 12 01:41:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 09 05:05:47 2023
 Response via : Initial Calibration

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

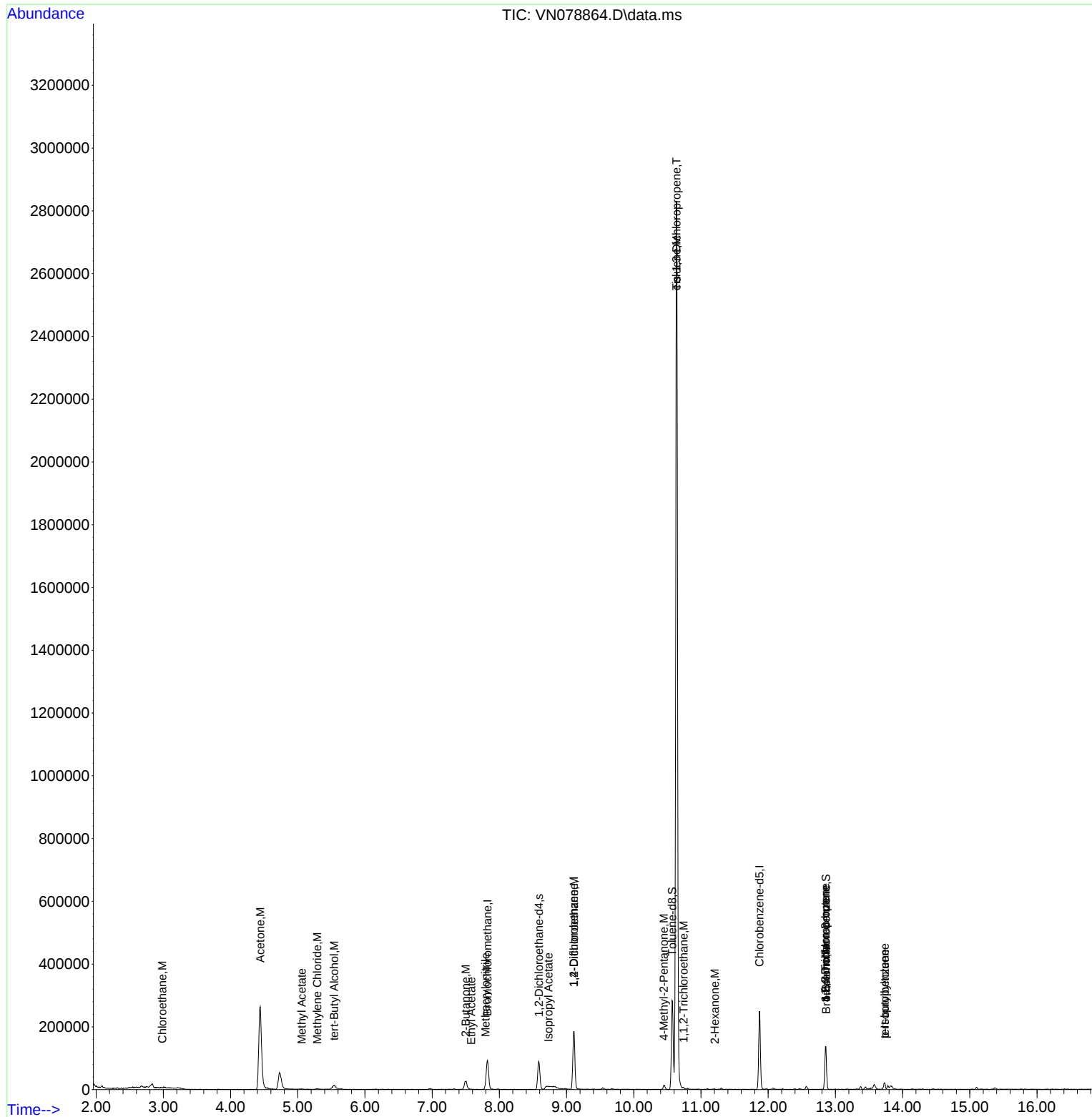
Internal Standards						
1) Bromochloromethane	7.824	128	29126	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	151671	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.871	117	132103	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	72660	30.987	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.300%
60) 4-Bromofluorobenzene	12.859	95	44063	23.763	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	79.200%
63) Toluene-d8	10.571	98	191451	29.575	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.567%
Target Compounds						
					Qvalue	
6) Chloroethane	2.983	64	486	0.301	ug/l	94
12) Methyl Acetate	5.059	43	770	0.218	ug/l	# 49
15) Acetone	4.442	58	145377	607.362	ug/l	78
18) Methylene Chloride	5.289	84	936	0.462	ug/l	# 83
23) tert-Butyl Alcohol	5.542	59	19659	56.950	ug/l	# 100
30) 2-Butanone	7.500	43	47816	39.591	ug/l	# 54
35) Methacrylonitrile	7.794	41	1063	0.750	ug/l	# 34
36) 1,2-Dichloroethane	9.112	62	7092	2.706	ug/l	# 75
43) Ethyl Acetate	7.583	43	779	0.311	ug/l	95
44) Isopropyl Acetate	8.730	43	2915	0.647	ug/l	# 46
49) cis-1,3-Dichloropropene	10.635	75	15082	5.046	ug/l	# 1
50) 1,1,2-Trichloroethane	10.741	97	2446	1.363	ug/l	# 16
56) Bromoform	12.865	173	610	0.520	ug/l	# 1
58) 4-Methyl-2-Pentanone	10.447	43	10529	4.147	ug/l	# 87
59) 2-Hexanone	11.206	43	499	0.283	ug/l	# 77
62) Toluene	10.635	91	2111979	271.554	ug/l	99
72) 1,2,3-Trichloropropane	12.853	75	26633	12.365	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	26633	39.395	ug/l	# 15
79) tert-butylbenzene	13.735	119	9735	2.052	ug/l	63
82) p-Isopropyltoluene	13.735	119	9735	1.956	ug/l	96

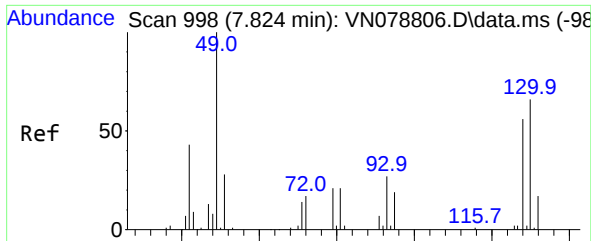
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 09 05:05:47 2023
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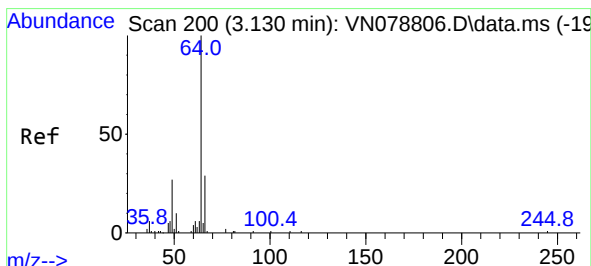
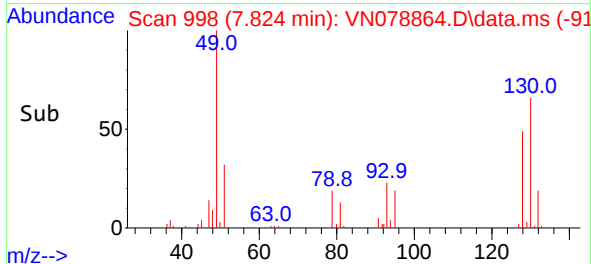
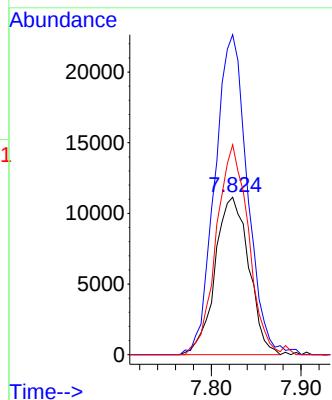
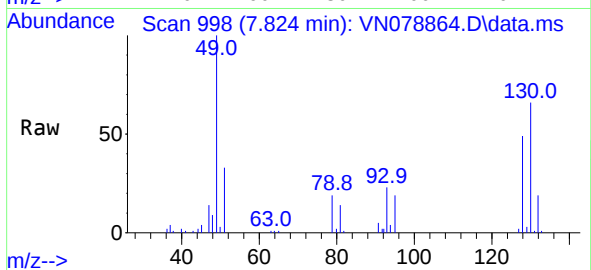




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

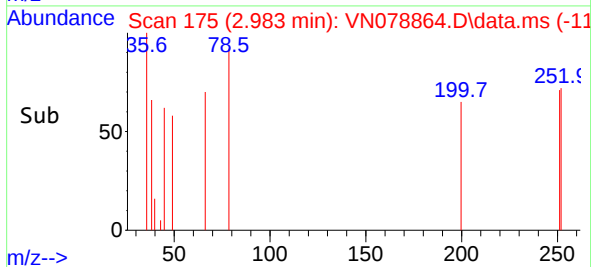
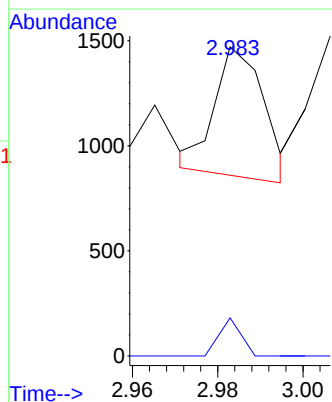
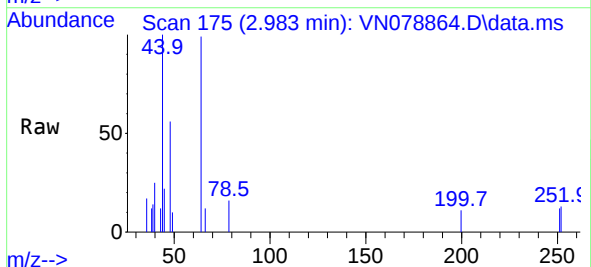
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JULY)

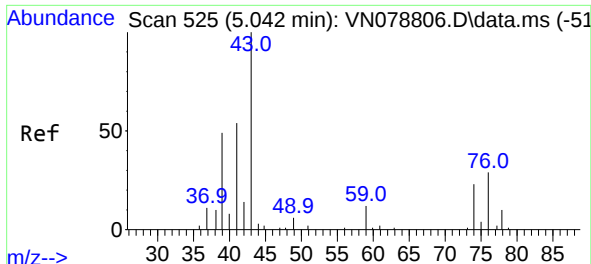
Tgt Ion:128 Resp: 29126
Ion Ratio Lower Upper
128 100
49 195.5 0.0 370.8
130 126.7 0.0 307.0



#6
Chloroethane
Concen: 0.301 ug/l
RT: 2.983 min Scan# 175
Delta R.T. -0.147 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

Tgt Ion: 64 Resp: 486
Ion Ratio Lower Upper
64 100
66 35.7 25.7 38.5

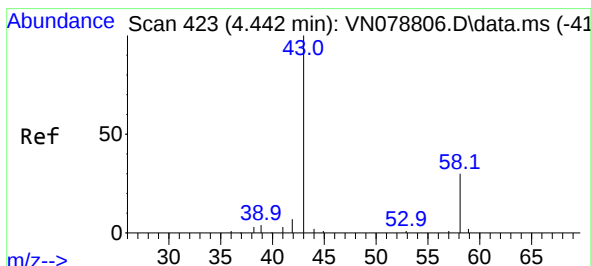
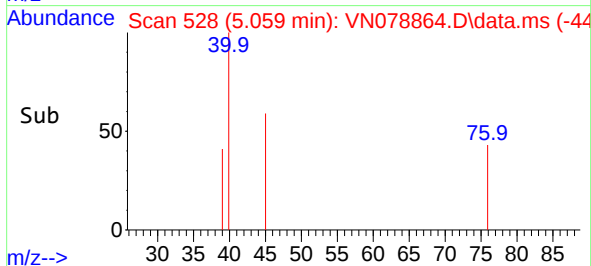
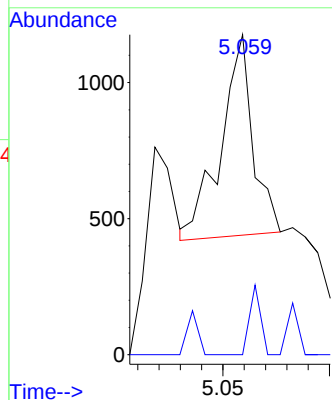
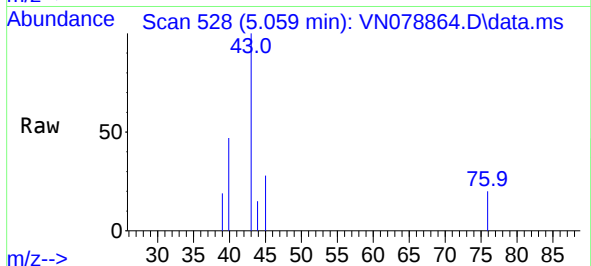




#12
Methyl Acetate
Concen: 0.218 ug/l
RT: 5.059 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

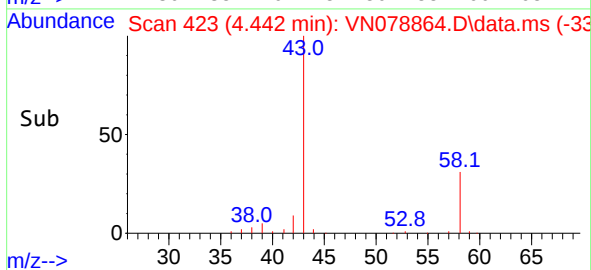
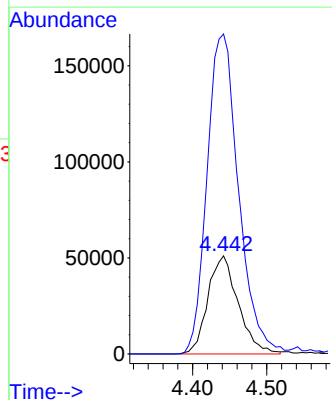
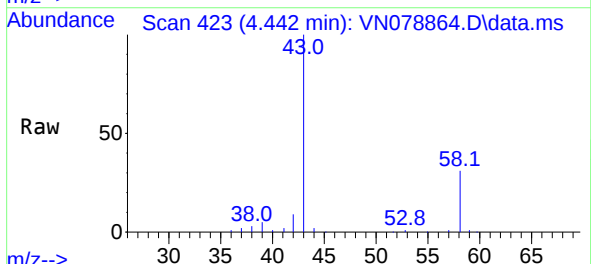
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JULY)

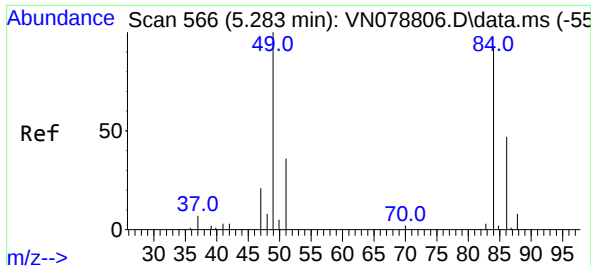
Tgt Ion: 43 Resp: 770
Ion Ratio Lower Upper
43 100
74 0.0 20.5 30.7#



#15
Acetone
Concen: 607.362 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.000 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

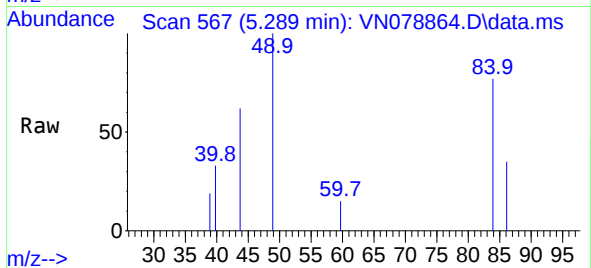
Tgt Ion: 58 Resp: 145377
Ion Ratio Lower Upper
58 100
43 325.9 227.5 341.3



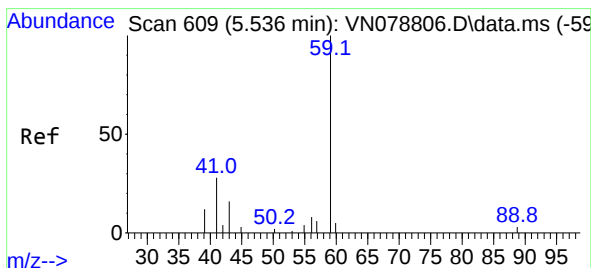
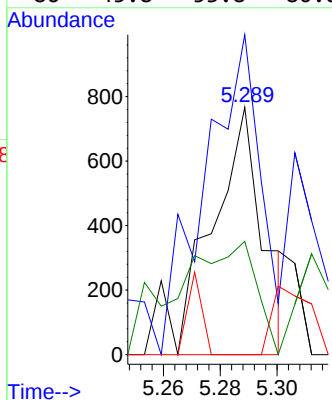
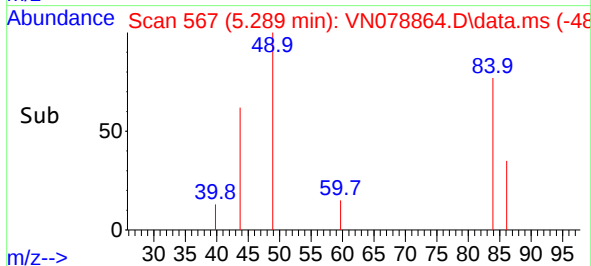


#18
Methylene Chloride
Concen: 0.462 ug/l
RT: 5.289 min Scan# 510
Delta R.T. 0.006 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JULY)

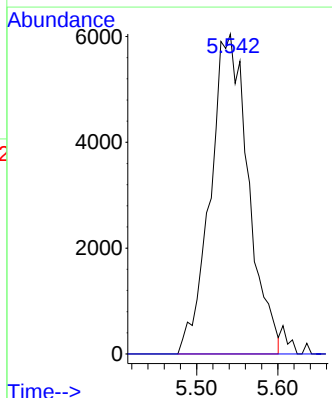
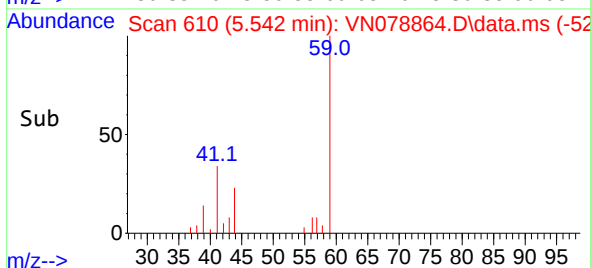
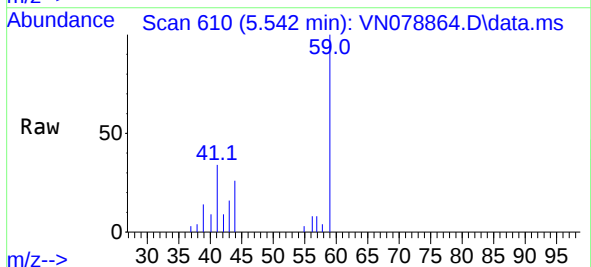


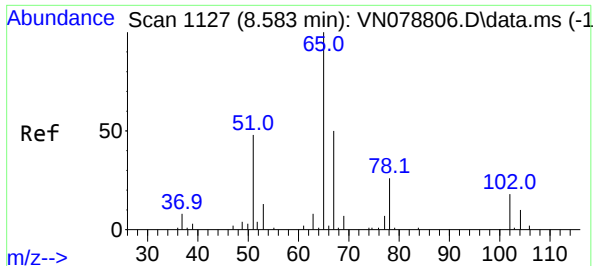
Tgt Ion:	84	Resp:	936
Ion	Ratio	Lower	Upper
84	100		
49	108.6	88.1	132.1
51	0.0	24.0	36.0#
86	45.8	53.8	80.8#



#23
tert-Butyl Alcohol
Concen: 56.950 ug/l
RT: 5.542 min Scan# 610
Delta R.T. 0.006 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

Tgt Ion:	59	Resp:	19659
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.1	0.1#

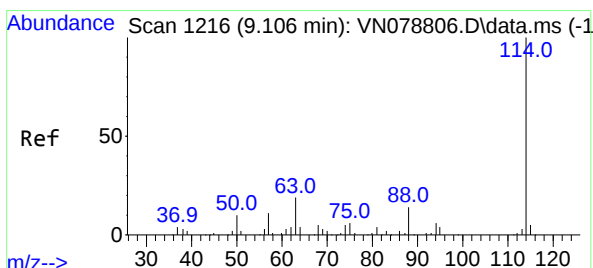
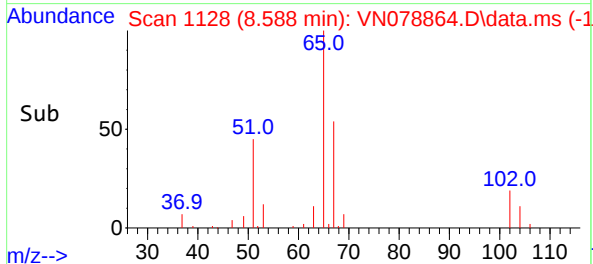
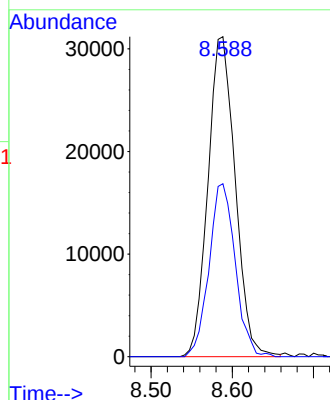
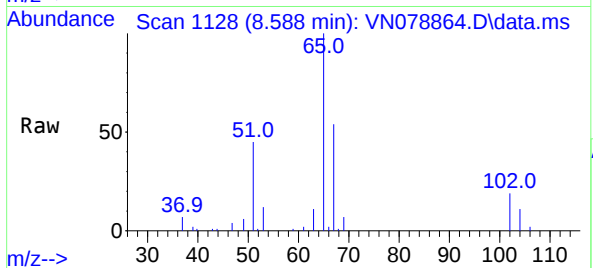




#27
1,2-Dichloroethane-d4
Concen: 30.987 ug/l
RT: 8.588 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

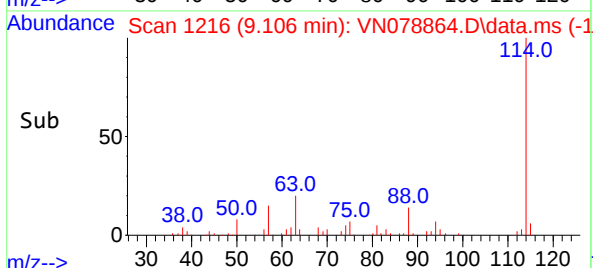
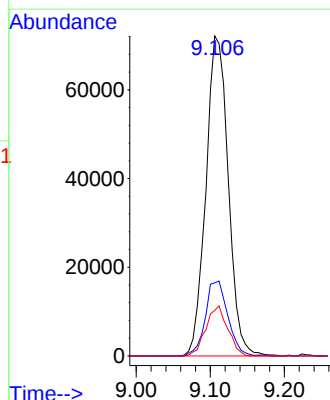
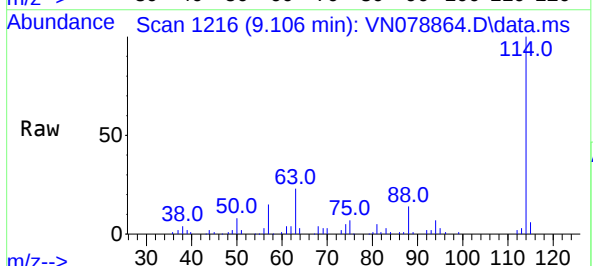
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JULY)

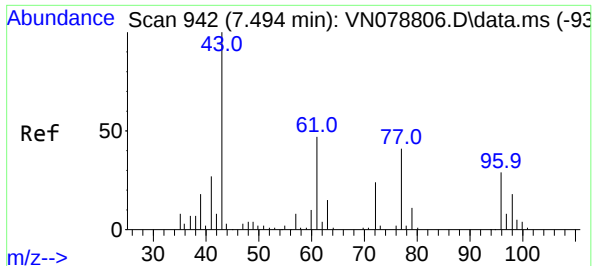
Tgt Ion: 65 Resp: 72660
Ion Ratio Lower Upper
65 100
67 51.7 42.9 64.3



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

Tgt Ion: 114 Resp: 151671
Ion Ratio Lower Upper
114 100
63 23.5 15.2 22.8#
88 15.2 12.5 18.7

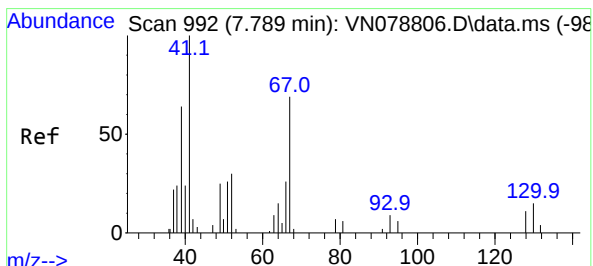
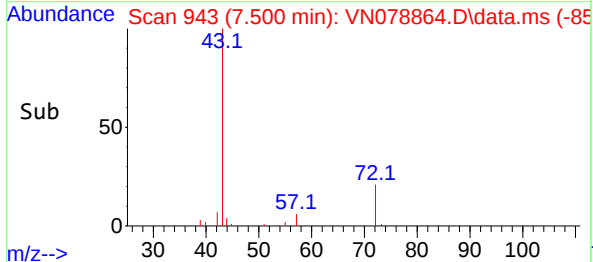
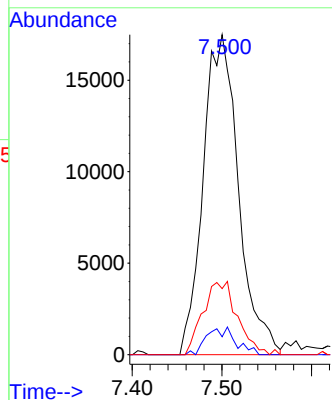
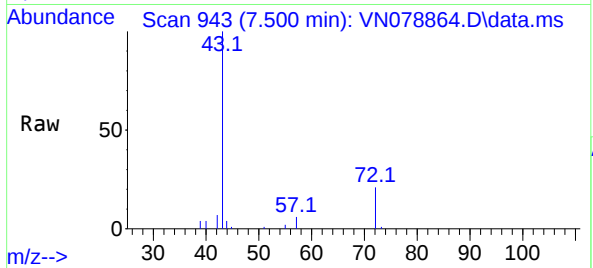




#30
2-Butanone
Concen: 39.591 ug/l
RT: 7.500 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

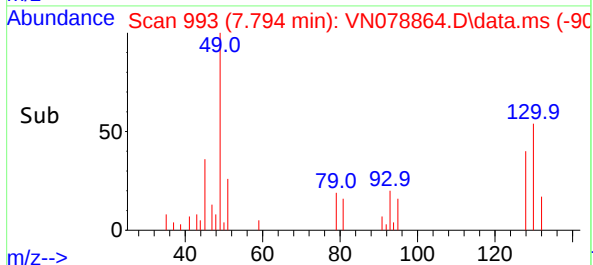
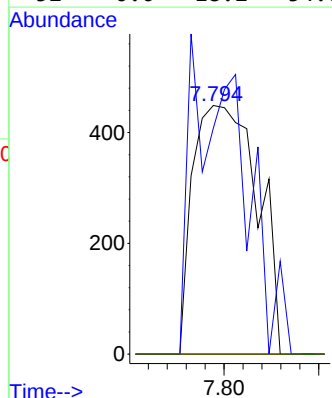
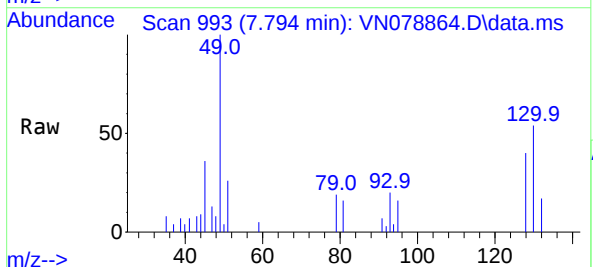
Instrument :
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ClientSampleId :
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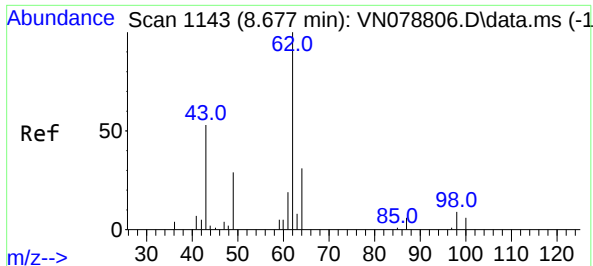
Tgt Ion: 43 Resp: 47816
Ion Ratio Lower Upper
43 100
57 3.0 6.8 10.2#
72 0.0 23.8 35.6#



#35
Methacrylonitrile
Concen: 0.750 ug/l
RT: 7.794 min Scan# 993
Delta R.T. 0.006 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

Tgt Ion: 41 Resp: 1063
Ion Ratio Lower Upper
41 100
39 90.9 33.9 101.6
67 0.0 45.9 137.6#
52 0.0 18.2 54.6#





#36

1,2-Dichloroethane

Concen: 2.706 ug/l

RT: 9.112 min Scan# 1143

Delta R.T. 0.435 min

Lab File: VN078864.D

Acq: 11 Aug 2023 15:39

Instrument :

MSVOA_N

ClientSampleId :

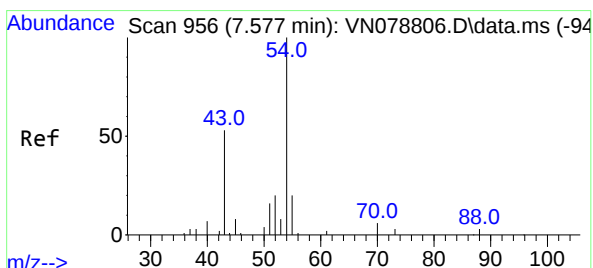
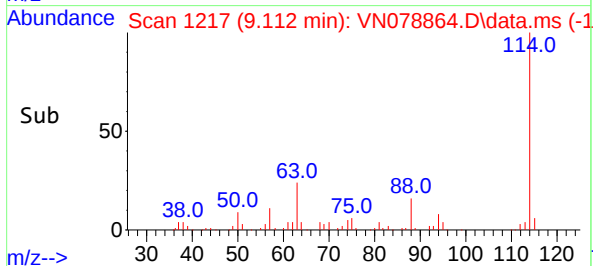
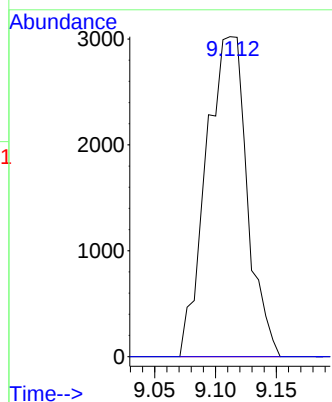
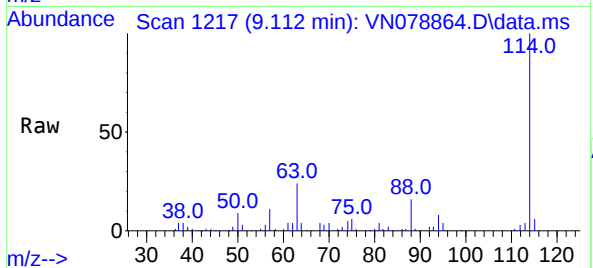
002-35TH-AVE(JULY)

Tgt Ion: 62 Resp: 7092

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#



#43

Ethyl Acetate

Concen: 0.311 ug/l

RT: 7.583 min Scan# 957

Delta R.T. 0.006 min

Lab File: VN078864.D

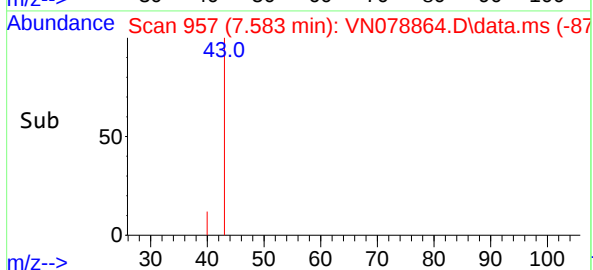
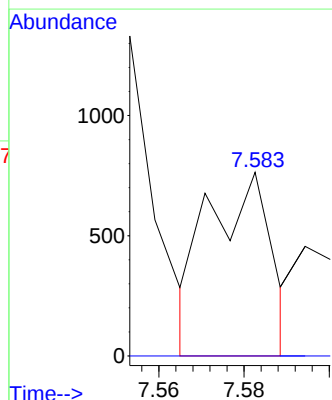
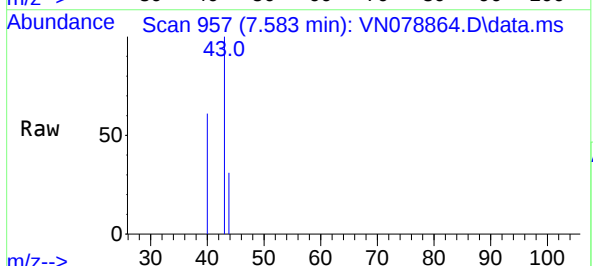
Acq: 11 Aug 2023 15:39

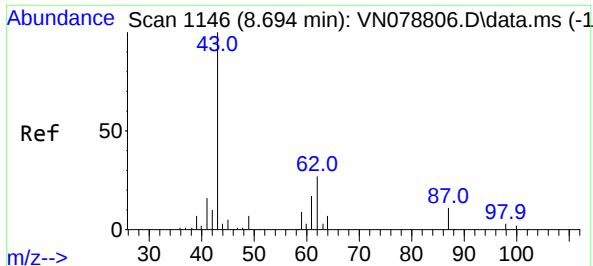
Tgt Ion: 43 Resp: 779

Ion Ratio Lower Upper

43 100

45 11.7 10.9 16.3

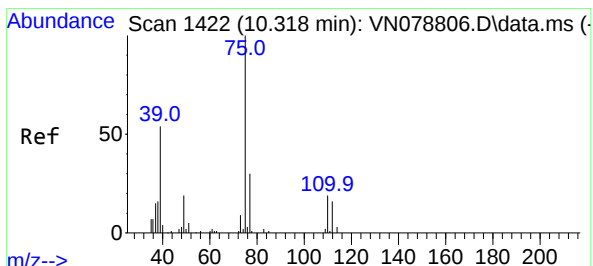
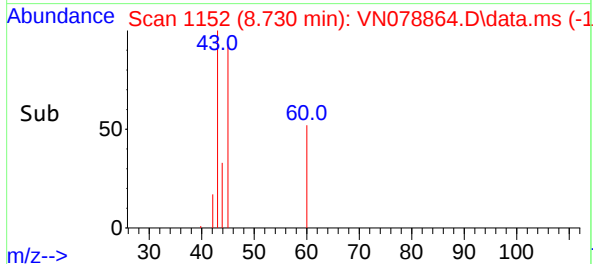
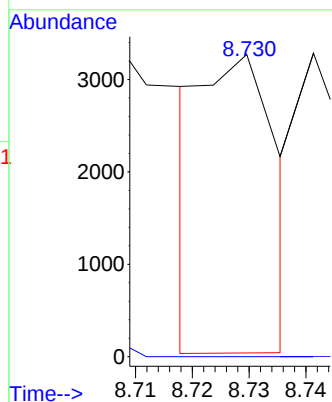
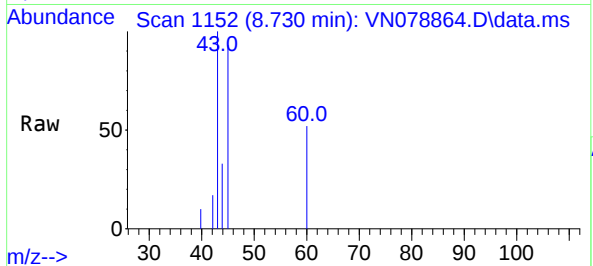




#44
Isopropyl Acetate
Concen: 0.647 ug/l
RT: 8.730 min Scan# 1146
Delta R.T. 0.035 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

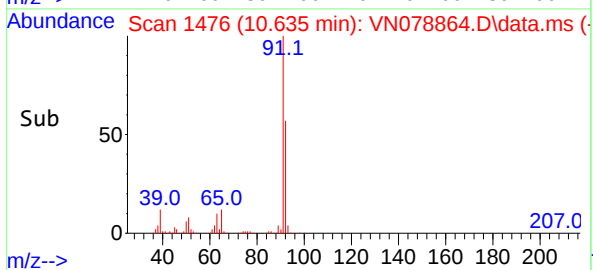
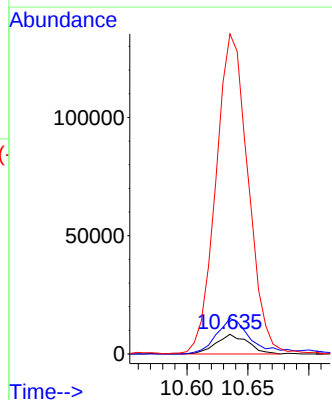
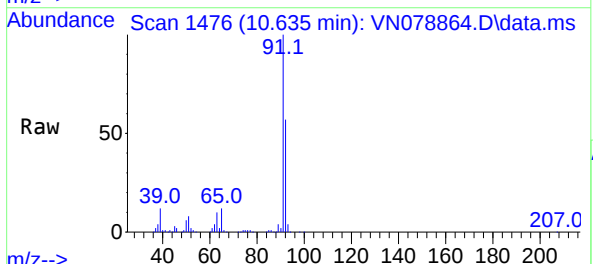
Instrument :
MSVOA_N
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002-35TH-AVE(JULY)

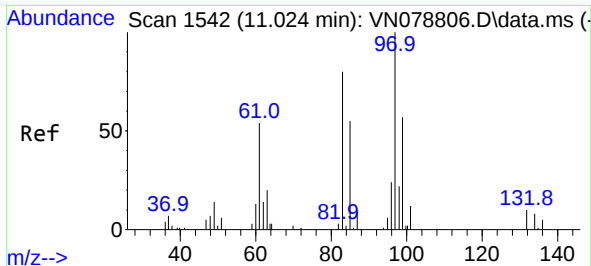
Tgt Ion: 43 Resp: 2915
Ion Ratio Lower Upper
43 100
61 0.0 23.0 34.6#



#49
cis-1,3-Dichloropropene
Concen: 5.046 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.317 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

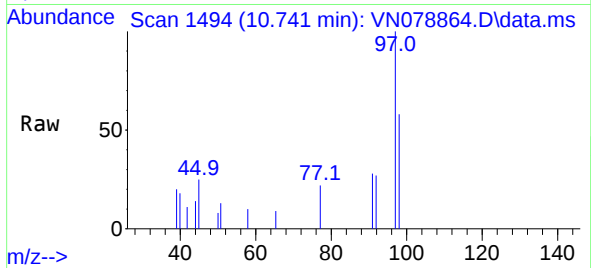
Tgt Ion: 75 Resp: 15082
Ion Ratio Lower Upper
75 100
77 181.0 24.0 36.0#
39 1621.4 35.1 52.7#





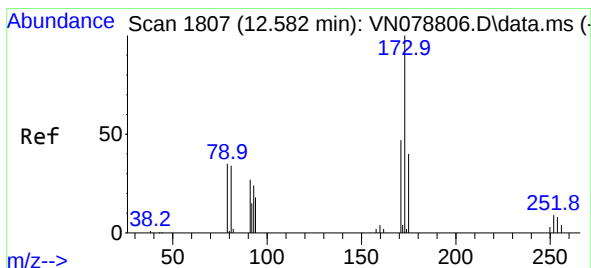
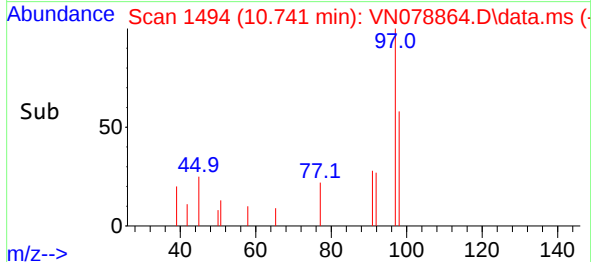
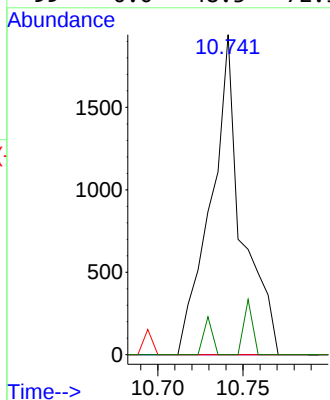
#50
1,1,2-Trichloroethane
Concen: 1.363 ug/l
RT: 10.741 min Scan# 14
Delta R.T. -0.282 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JULY)



Tgt Ion: 97 Resp: 2446

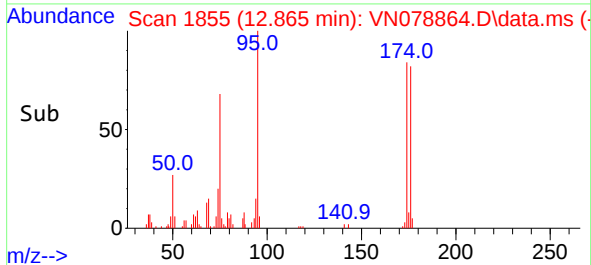
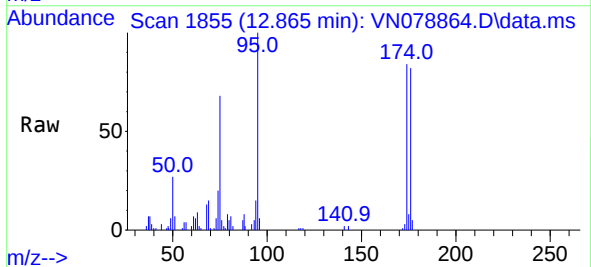
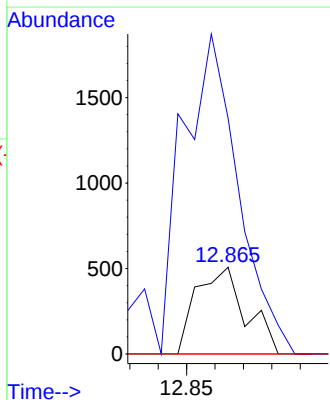
Ion	Ratio	Lower	Upper
97	100		
83	0.0	66.8	100.2#
85	0.0	42.5	63.7#
99	0.0	48.3	72.5#

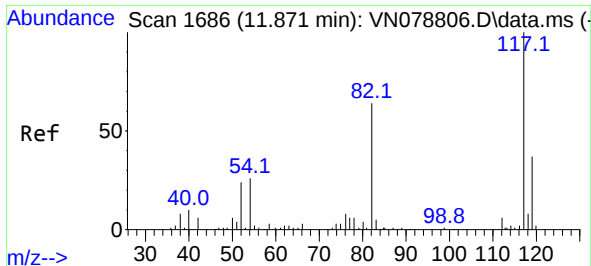


#56
Bromoform
Concen: 0.520 ug/l
RT: 12.865 min Scan# 1855
Delta R.T. 0.282 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

Tgt Ion:173 Resp: 610

Ion	Ratio	Lower	Upper
173	100		
175	414.9	40.7	61.1#
254	0.0	6.5	9.7#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN078864.D

Acq: 11 Aug 2023 15:39

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(JULY)

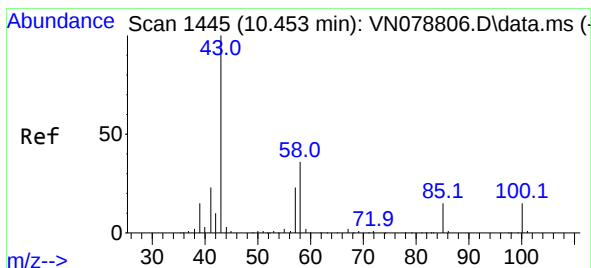
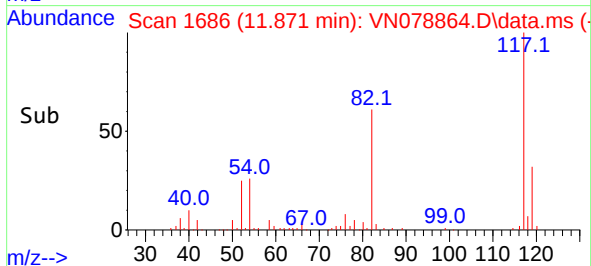
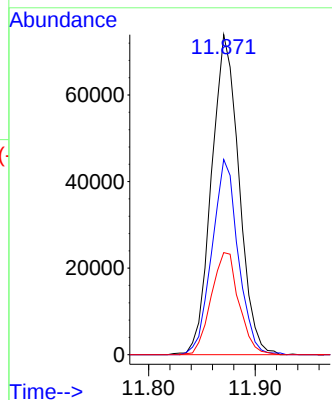
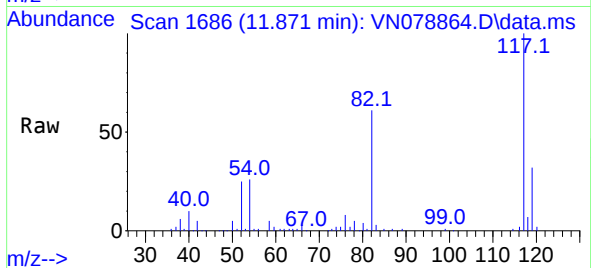
Tgt Ion:117 Resp: 132103

Ion Ratio Lower Upper

117 100

82 58.2 43.9 65.9

119 32.3 26.2 39.4



#58

4-Methyl-2-Pentanone

Concen: 4.147 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.006 min

Lab File: VN078864.D

Acq: 11 Aug 2023 15:39

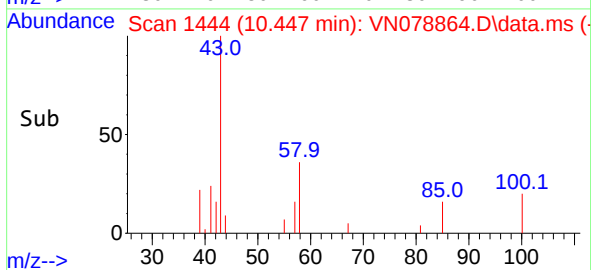
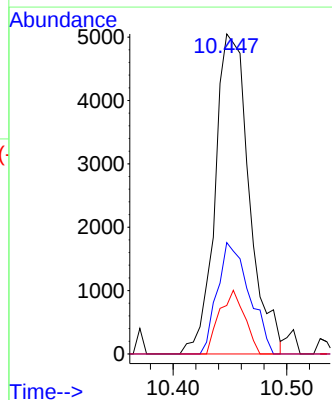
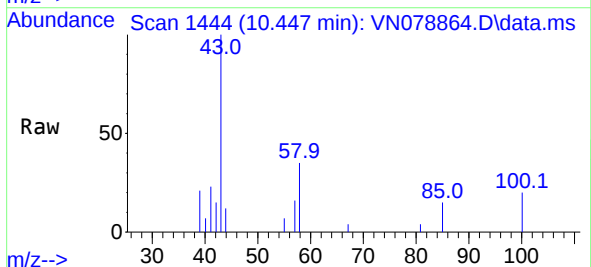
Tgt Ion: 43 Resp: 10529

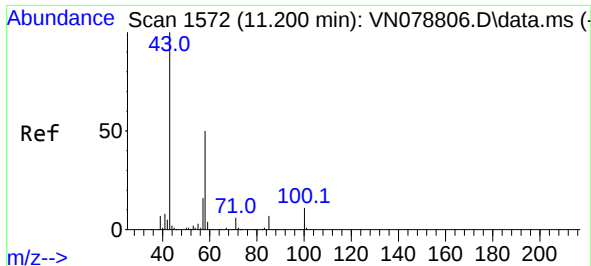
Ion Ratio Lower Upper

43 100

58 32.5 32.6 48.8#

85 14.6 16.2 24.2#

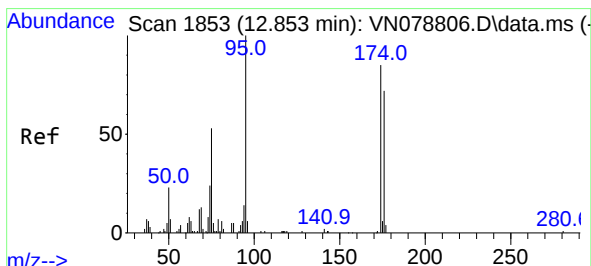
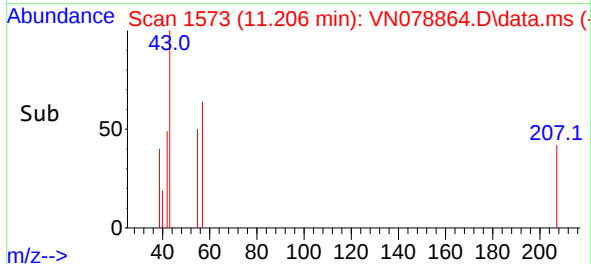
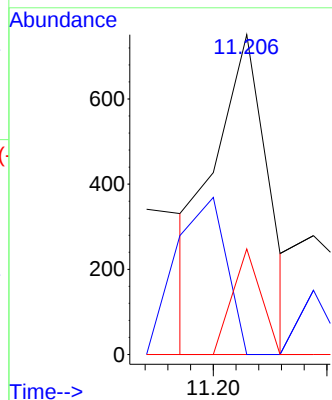
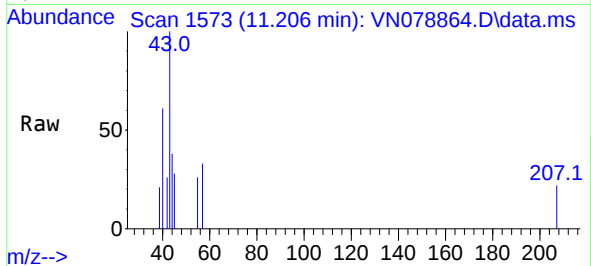




#59
2-Hexanone
Concen: 0.283 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

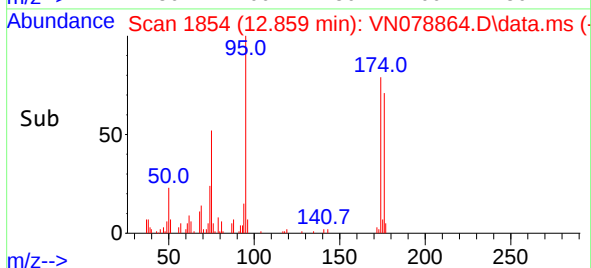
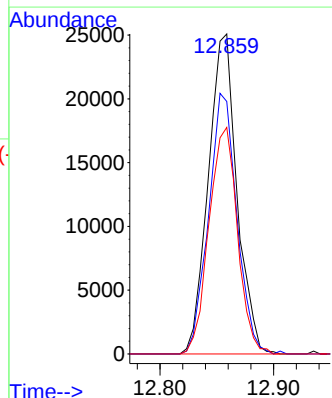
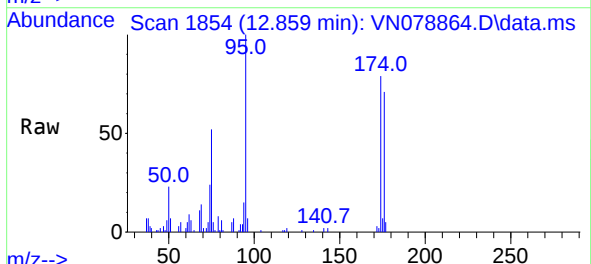
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JULY)

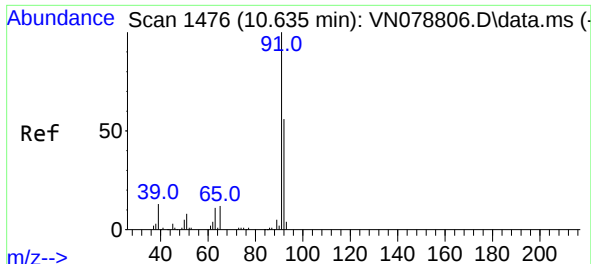
Tgt Ion:	43	Resp:	499
Ion	Ratio	Lower	Upper
43	100		
58	45.9	45.9	68.9#
57	0.0	15.8	23.6#



#60
4-Bromofluorobenzene
Concen: 23.763 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

Tgt Ion:	95	Resp:	44063
Ion	Ratio	Lower	Upper
95	100		
174	80.3	61.7	92.5
176	70.4	58.1	87.1

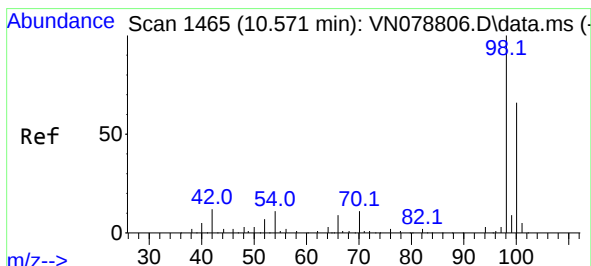
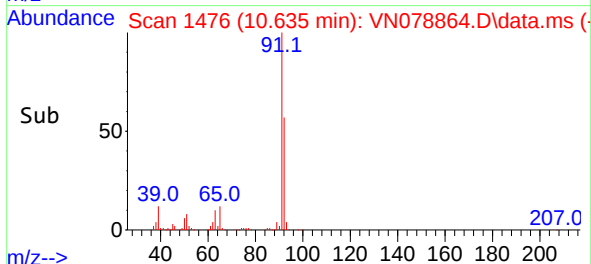
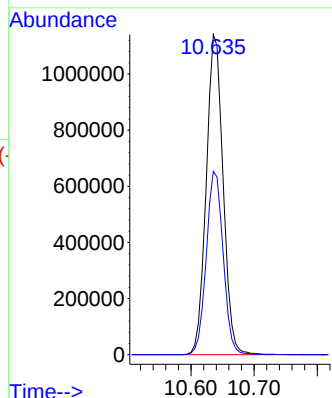
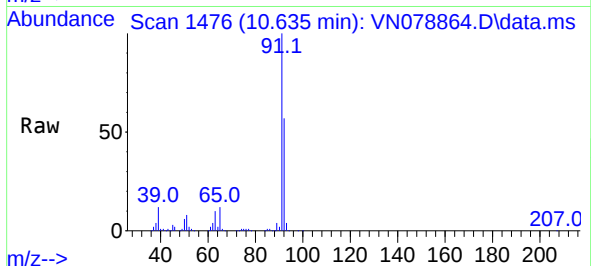




#62
Toluene
Concen: 271.554 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

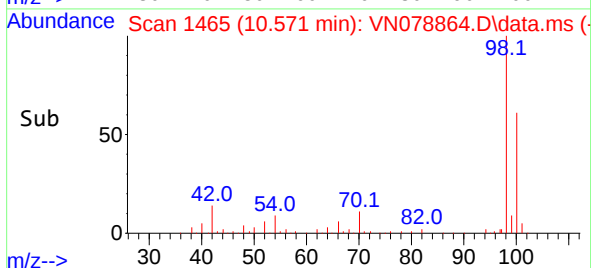
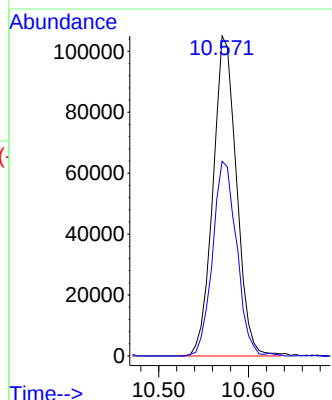
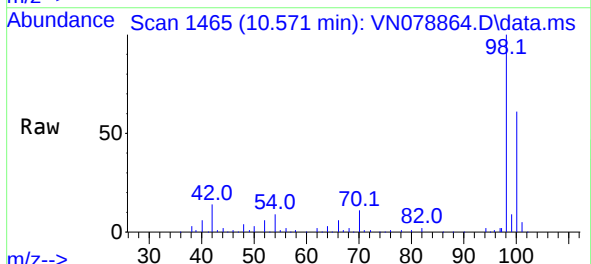
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JULY)

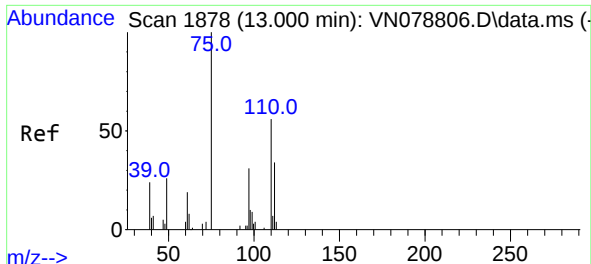
Tgt Ion: 91 Resp: 2111979
Ion Ratio Lower Upper
91 100
92 57.3 45.2 67.8



#63
Toluene-d8
Concen: 29.575 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

Tgt Ion: 98 Resp: 191451
Ion Ratio Lower Upper
98 100
100 61.9 49.7 74.5

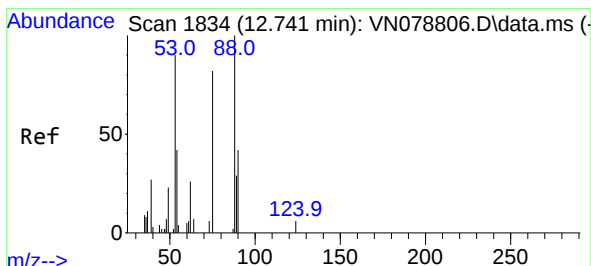
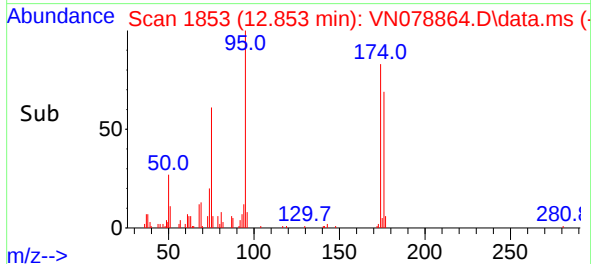
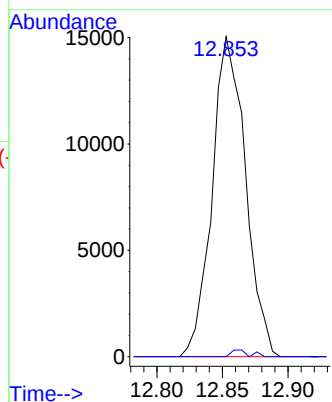
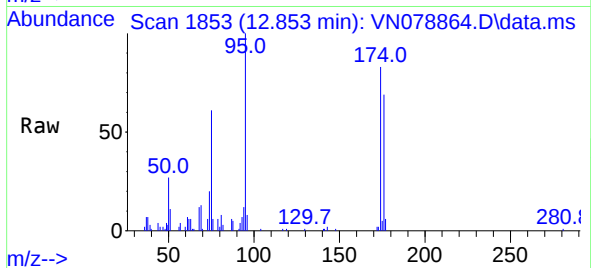




#72
1,2,3-Trichloropropane
Concen: 12.365 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

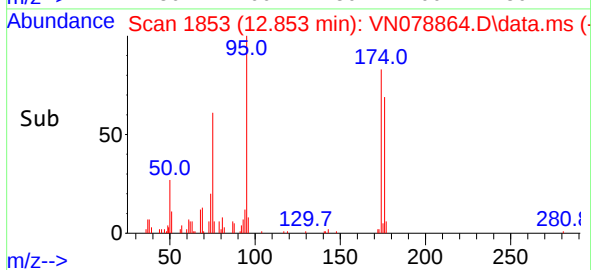
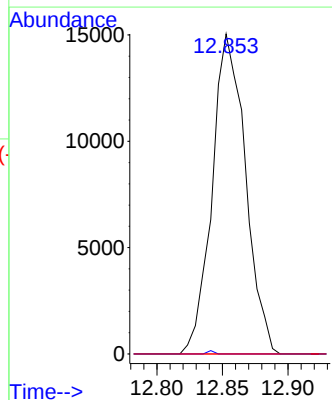
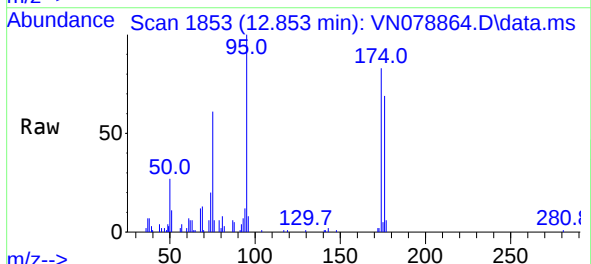
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JULY)

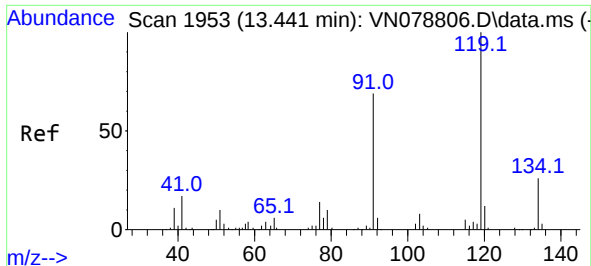
Tgt Ion: 75 Resp: 26633
Ion Ratio Lower Upper
75 100
77 0.8 0.0 387.4



#77
t-1,4-Dichloro-2-butene
Concen: 39.395 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

Tgt Ion: 75 Resp: 26633
Ion Ratio Lower Upper
75 100
53 0.0 41.6 124.9#
89 0.0 25.1 75.4#

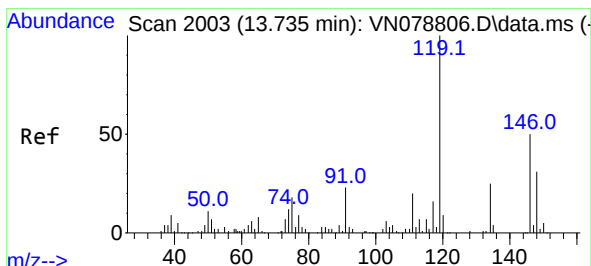
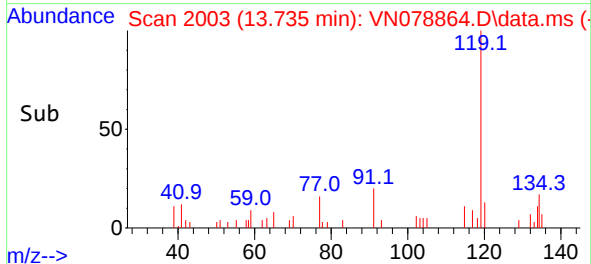
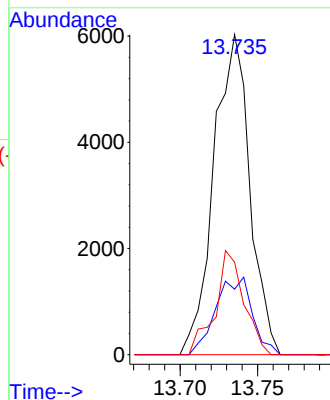
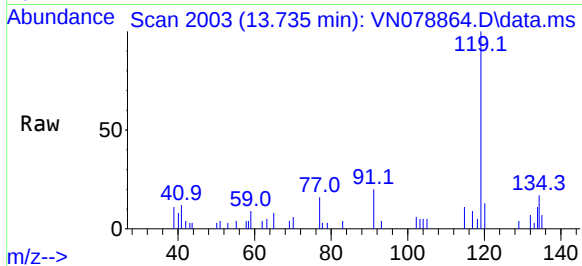




#79
tert-butylbenzene
Concen: 2.052 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.294 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JULY)

Tgt Ion:119	Resp:	9735
Ion	Ratio	Lower Upper
119	100	
91	24.5	0.0 126.6
134	22.4	0.0 44.0



#82
p-Isopropyltoluene
Concen: 1.956 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.000 min
Lab File: VN078864.D
Acq: 11 Aug 2023 15:39

Tgt Ion:119	Resp:	9735
Ion	Ratio	Lower Upper
119	100	
134	22.4	0.0 52.4
91	24.5	0.0 48.2

