

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081123\
 Data File : VN078862.D
 Acq On : 11 Aug 2023 14:51
 Operator : JC\MD
 Sample : 03988-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

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

Quant Time: Aug 12 01:41:16 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)

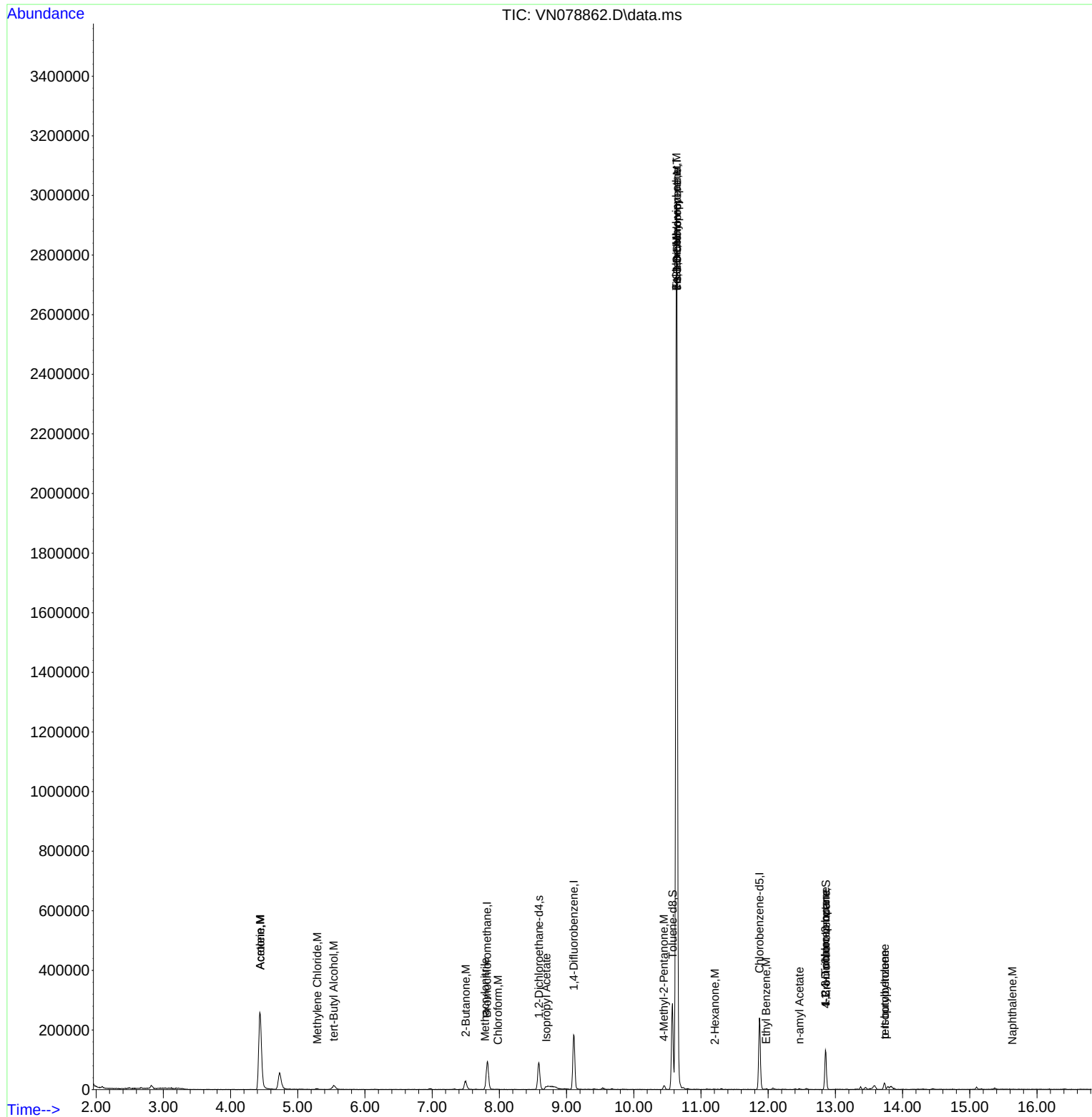
Internal Standards						
1) Bromochloromethane	7.818	128	27000	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	151036	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	128152	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	69722	32.075	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	106.900%
60) 4-Bromofluorobenzene	12.859	95	42659	23.715	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	79.033%
63) Toluene-d8	10.576	98	185907	29.604	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.667%
Target Compounds						
					Qvalue	
13) Acrolein	4.441	56	139	0.402	ug/l #	1
15) Acetone	4.441	58	149511	673.817	ug/l	81
18) Methylene Chloride	5.288	84	702	0.374	ug/l #	41
23) tert-Butyl Alcohol	5.535	59	17899	55.934	ug/l #	100
25) Chloroform	7.977	83	1008	0.302	ug/l	89
30) 2-Butanone	7.500	43	44260	36.801	ug/l #	91
35) Methacrylonitrile	7.788	41	418	0.296	ug/l #	14
44) Isopropyl Acetate	8.700	43	2172	0.484	ug/l #	46
47) n-amyl Acetate	12.464	43	1738	0.555	ug/l #	48
48) t-1,3-Dichloropropene	10.641	75	16622	6.211	ug/l #	1
49) cis-1,3-Dichloropropene	10.641	75	16622	5.585	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.635	63	156092	168.943	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	10022	4.069	ug/l #	86
59) 2-Hexanone	11.206	43	987	0.577	ug/l #	46
62) Toluene	10.635	91	2238136	296.647	ug/l	99
66) Ethyl Benzene	11.970	91	1660	0.212	ug/l #	43
72) 1,2,3-Trichloropropane	12.853	75	24024	11.498	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.853	75	24024	36.631	ug/l #	15
79) tert-butylbenzene	13.735	119	9269	2.014	ug/l	66
82) p-Isopropyltoluene	13.735	119	9269	1.920	ug/l	91
91) Naphthalene	15.635	128	455	0.205	ug/l #	69

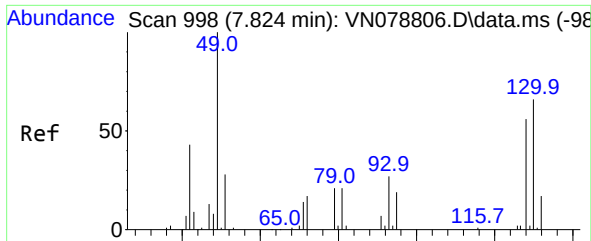
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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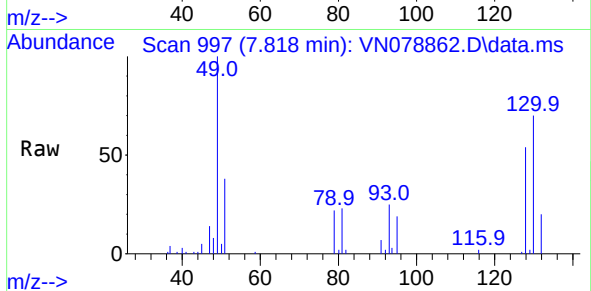
Quant Time: Aug 12 01:41:16 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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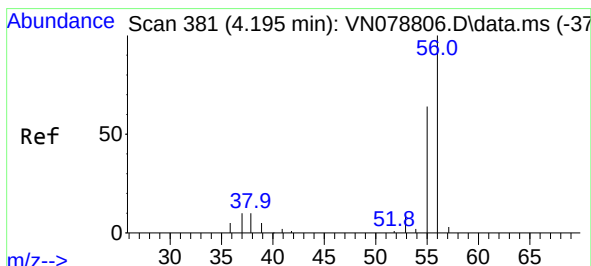
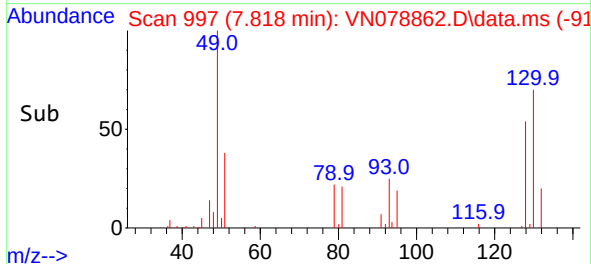
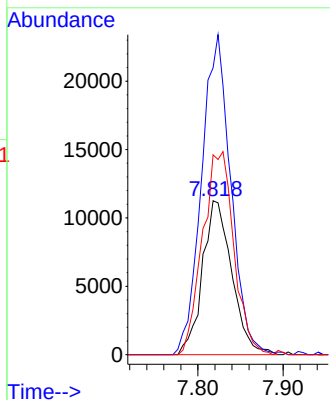


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

Instrument :
MSVOA_N
ClientSampleId :
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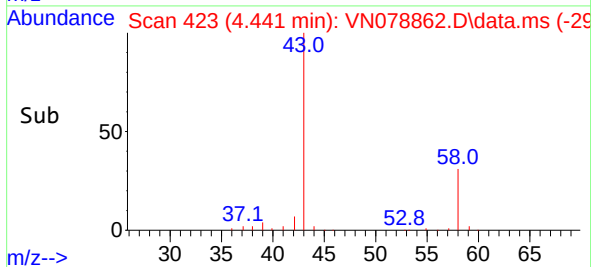
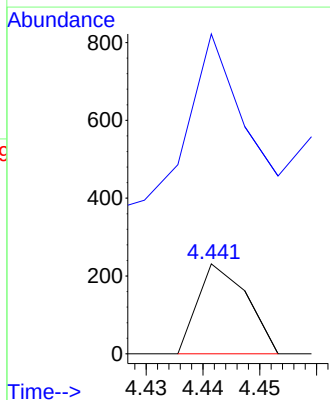
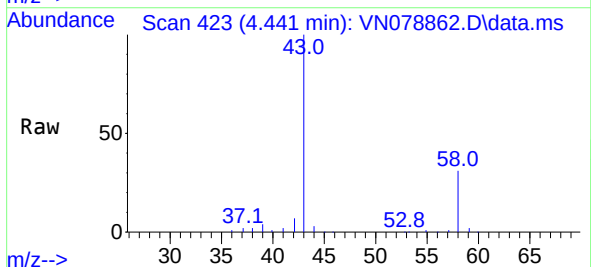


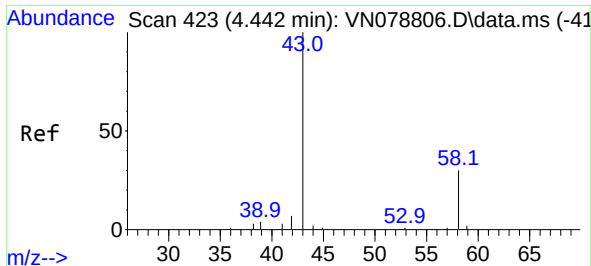
Tgt Ion:128 Resp: 27000
Ion Ratio Lower Upper
128 100
49 206.8 0.0 370.8
130 140.3 0.0 307.0



#13
Acrolein
Concen: 0.402 ug/l
RT: 4.441 min Scan# 423
Delta R.T. 0.247 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

Tgt Ion: 56 Resp: 139
Ion Ratio Lower Upper
56 100
55 849.6 59.0 88.4#

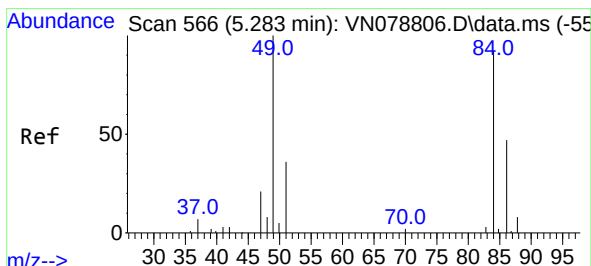
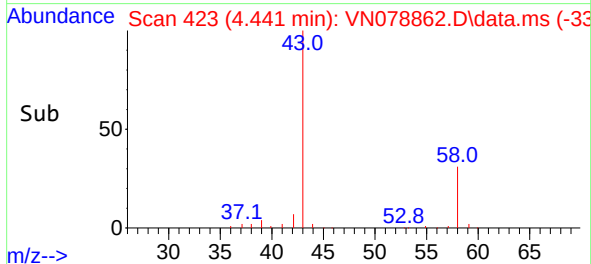
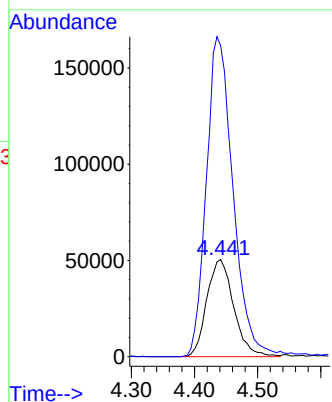
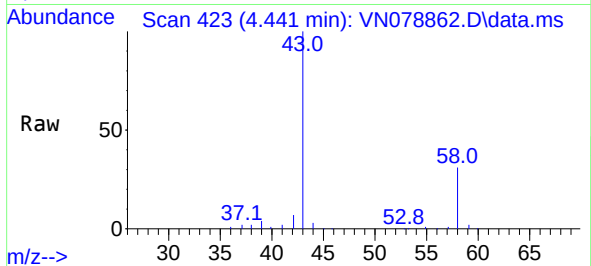




#15
Acetone
Concen: 673.817 ug/l
RT: 4.441 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

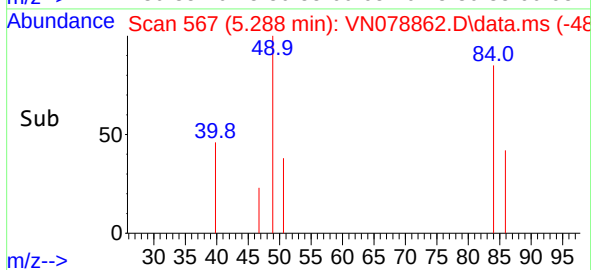
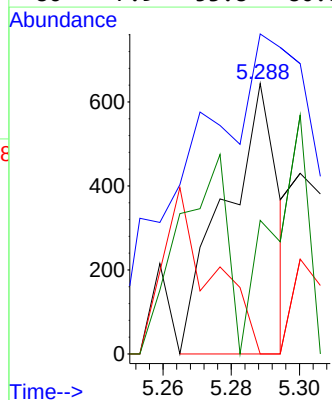
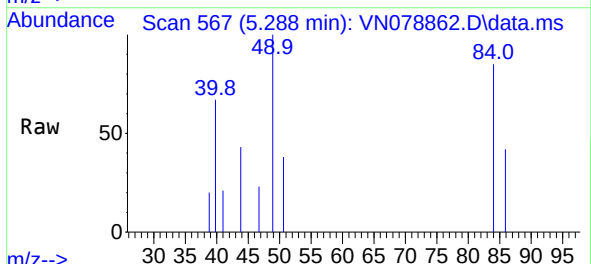
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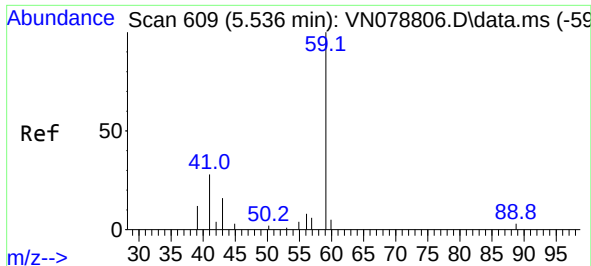
Tgt Ion: 58 Resp: 149511
Ion Ratio Lower Upper
58 100
43 319.8 227.5 341.3



#18
Methylene Chloride
Concen: 0.374 ug/l
RT: 5.288 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

Tgt Ion: 84 Resp: 702
Ion Ratio Lower Upper
84 100
49 55.7 88.1 132.1#
51 0.0 24.0 36.0#
86 7.9 53.8 80.8#

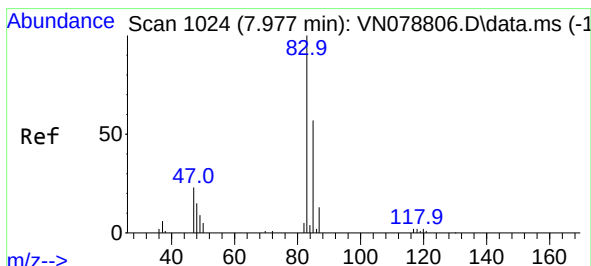
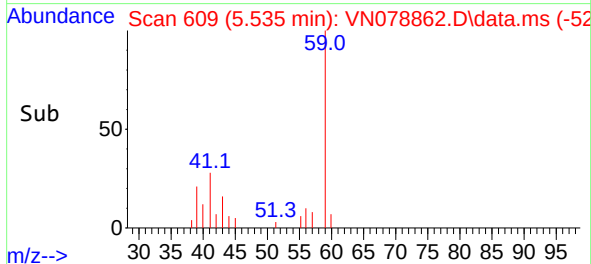
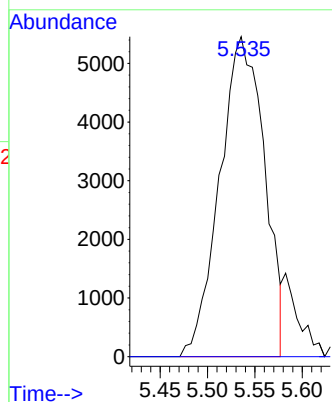
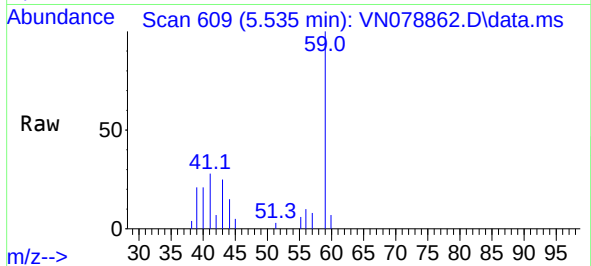




#23
tert-Butyl Alcohol
Concen: 55.934 ug/l
RT: 5.535 min Scan# 609
Delta R.T. -0.000 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

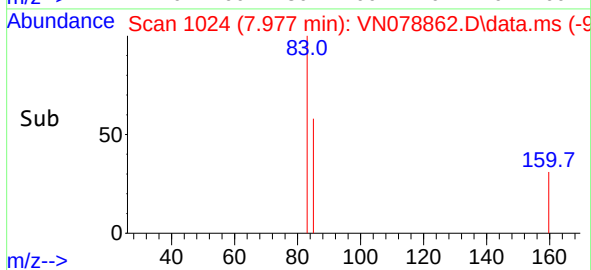
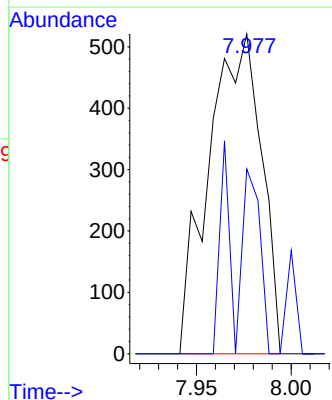
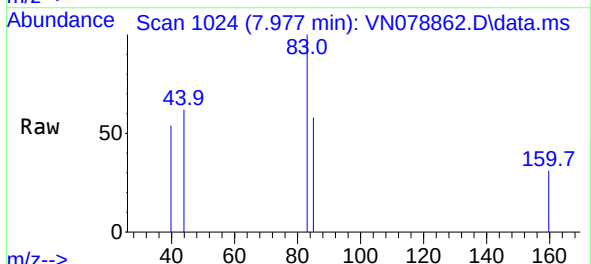
Instrument :
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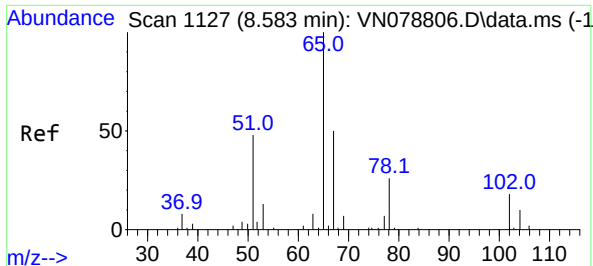
Tgt Ion: 59 Resp: 17899
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#25
Chloroform
Concen: 0.302 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

Tgt Ion: 83 Resp: 1008
Ion Ratio Lower Upper
83 100
85 57.8 53.4 80.0

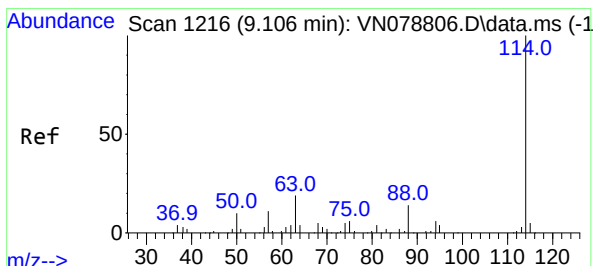
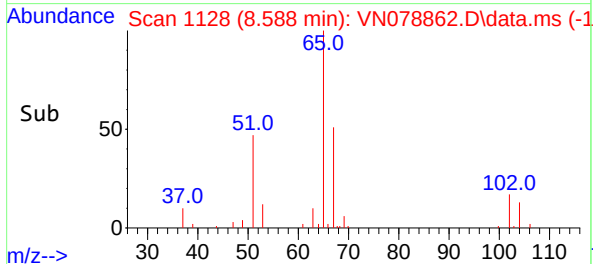
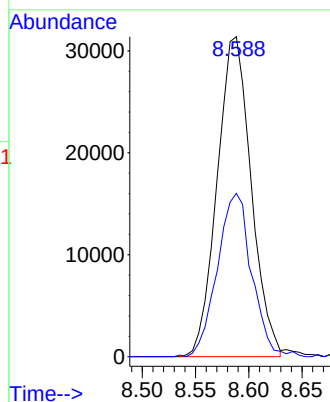
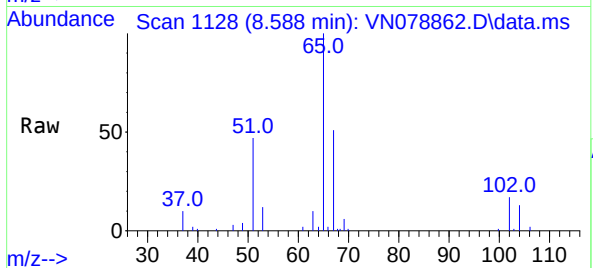




#27
1,2-Dichloroethane-d4
Concen: 32.075 ug/l
RT: 8.588 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

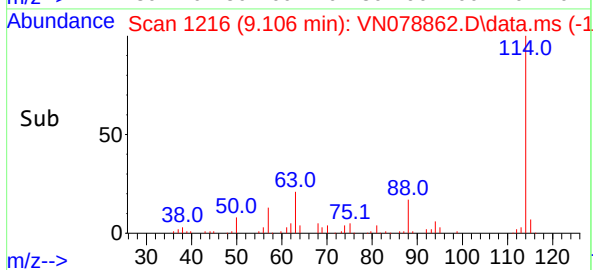
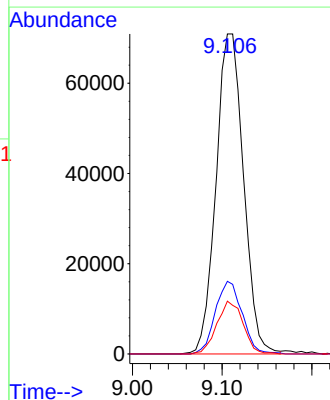
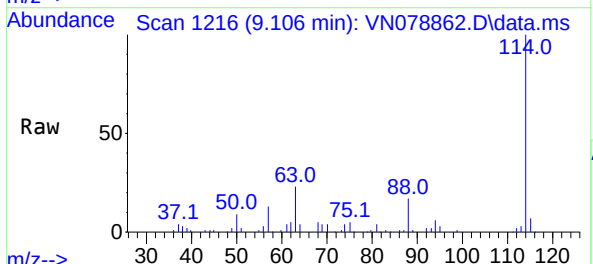
Instrument :
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002-35TH-AVE(AUG)

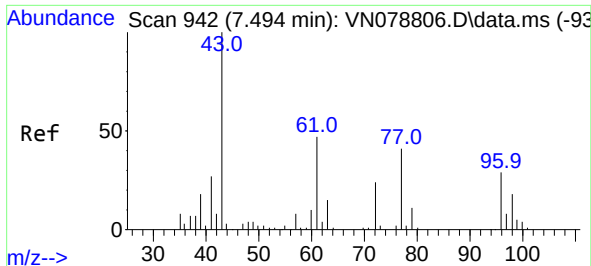
Tgt Ion: 65 Resp: 69722
Ion Ratio Lower Upper
65 100
67 51.2 42.9 64.3



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

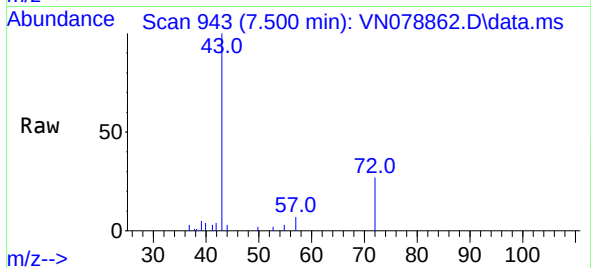
Tgt Ion: 114 Resp: 151036
Ion Ratio Lower Upper
114 100
63 22.1 15.2 22.8
88 15.6 12.5 18.7



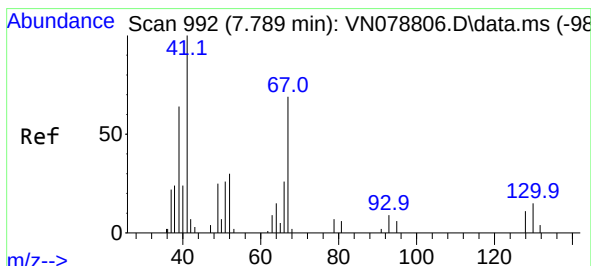
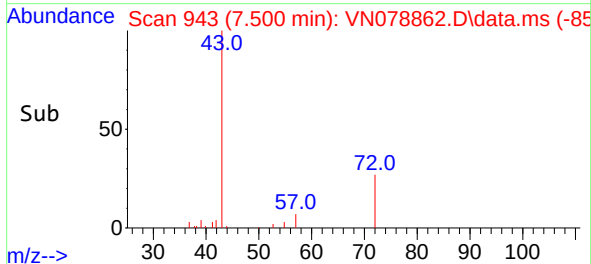
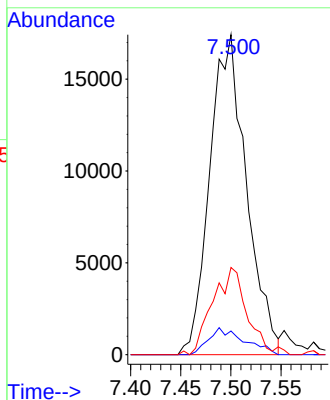


#30
2-Butanone
Concen: 36.801 ug/l
RT: 7.500 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

Instrument :
MSVOA_N
ClientSampleId :
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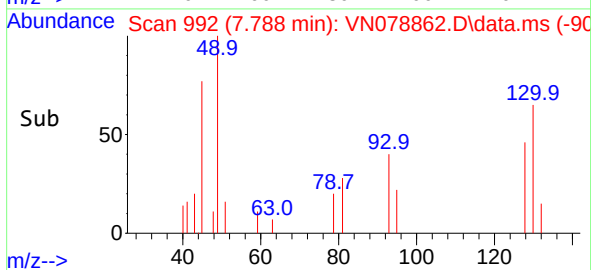
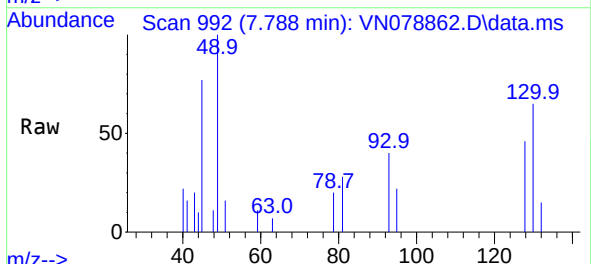
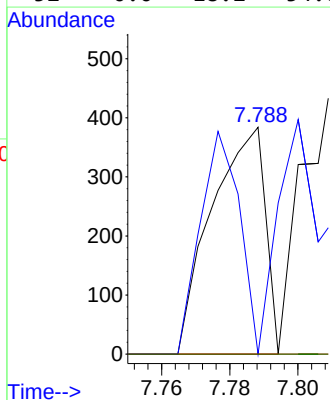


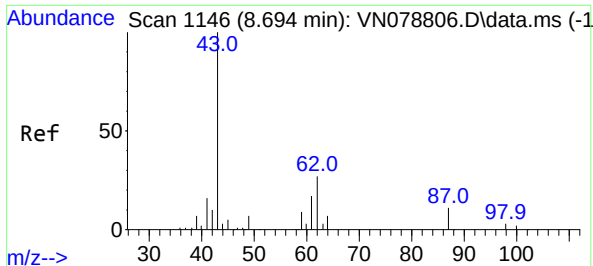
Tgt Ion: 43 Resp: 44260
Ion Ratio Lower Upper
43 100
57 4.0 6.8 10.2#
72 25.1 23.8 35.6



#35
Methacrylonitrile
Concen: 0.296 ug/l
RT: 7.788 min Scan# 992
Delta R.T. -0.000 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

Tgt Ion: 41 Resp: 418
Ion Ratio Lower Upper
41 100
39 0.0 33.9 101.6#
67 0.0 45.9 137.6#
52 0.0 18.2 54.6#

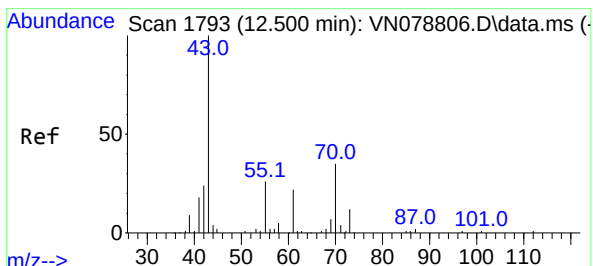
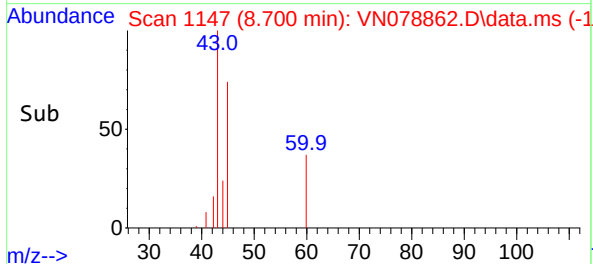
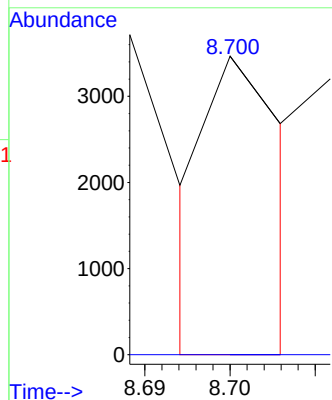
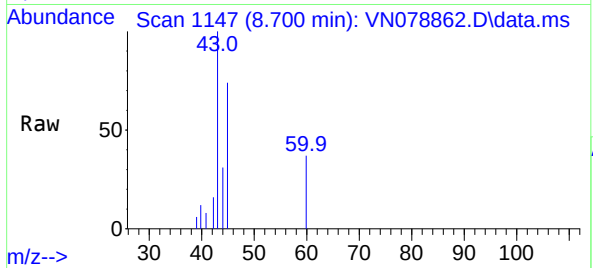




#44
Isopropyl Acetate
Concen: 0.484 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

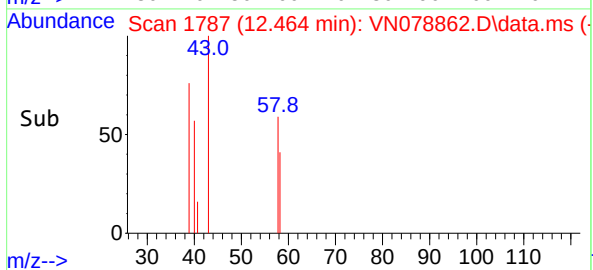
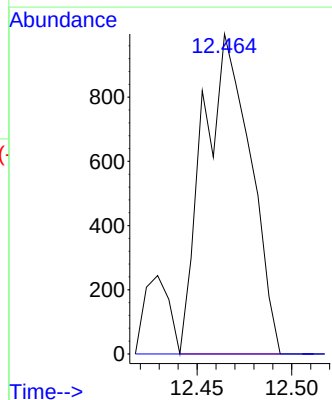
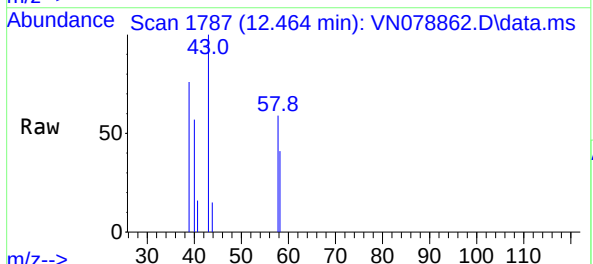
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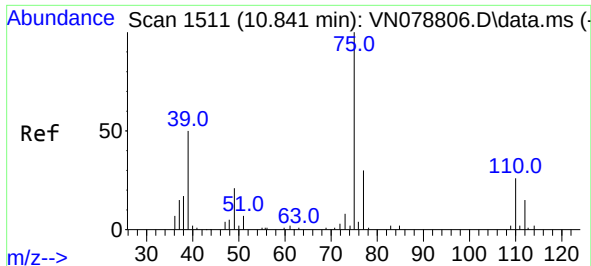
Tgt Ion: 43 Resp: 2172
Ion Ratio Lower Upper
43 100
61 0.0 23.0 34.6#



#47
n-amyl Acetate
Concen: 0.555 ug/l
RT: 12.464 min Scan# 1787
Delta R.T. -0.036 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

Tgt Ion: 43 Resp: 1738
Ion Ratio Lower Upper
43 100
55 0.0 21.5 32.3#

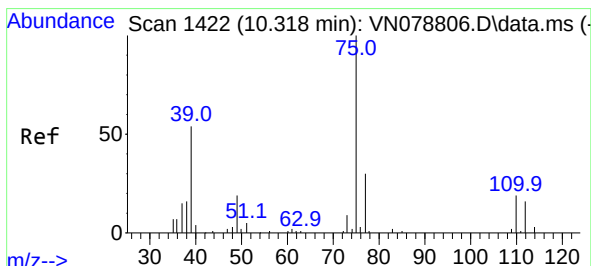
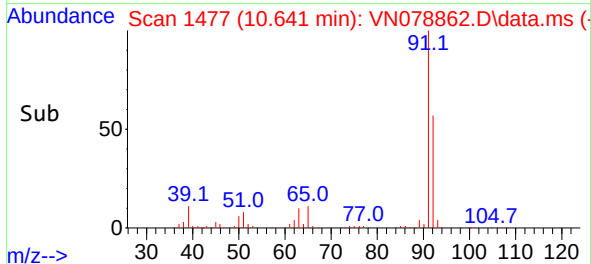
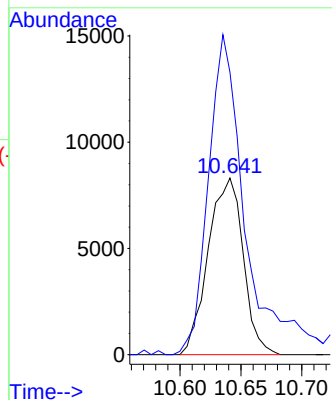
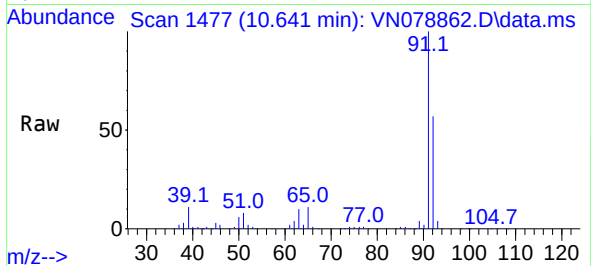




#48
 t-1,3-Dichloropropene
 Concen: 6.211 ug/l
 RT: 10.641 min Scan# 1477
 Delta R.T. -0.200 min
 Lab File: VN078862.D
 Acq: 11 Aug 2023 14:51

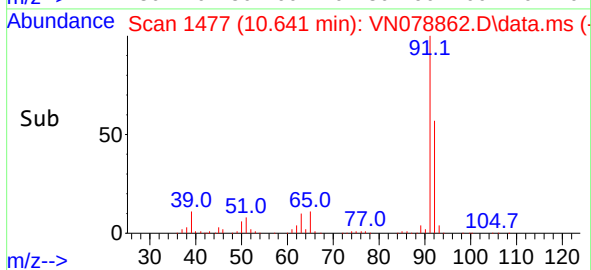
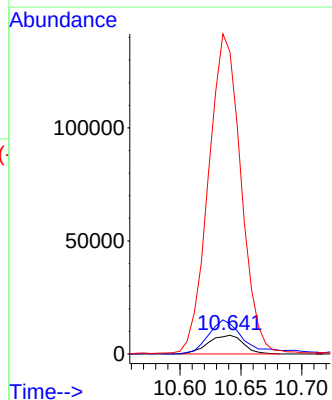
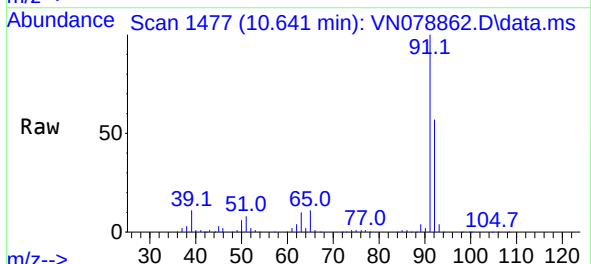
Instrument :
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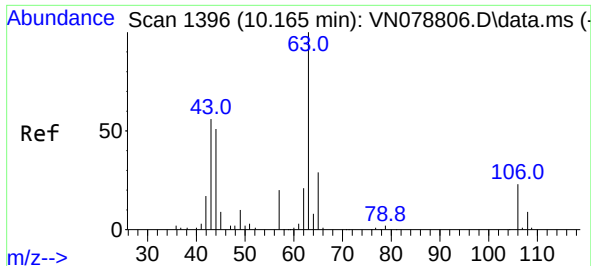
Tgt Ion: 75 Resp: 16622
 Ion Ratio Lower Upper
 75 100
 77 157.9 26.1 39.1#



#49
 cis-1,3-Dichloropropene
 Concen: 5.585 ug/l
 RT: 10.641 min Scan# 1477
 Delta R.T. 0.323 min
 Lab File: VN078862.D
 Acq: 11 Aug 2023 14:51

Tgt Ion: 75 Resp: 16622
 Ion Ratio Lower Upper
 75 100
 77 157.9 24.0 36.0#
 39 1592.0 35.1 52.7#

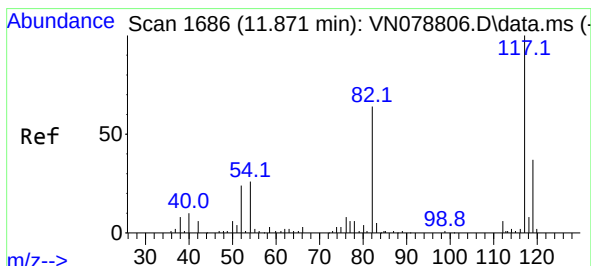
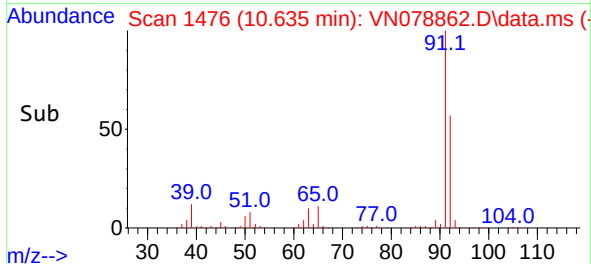
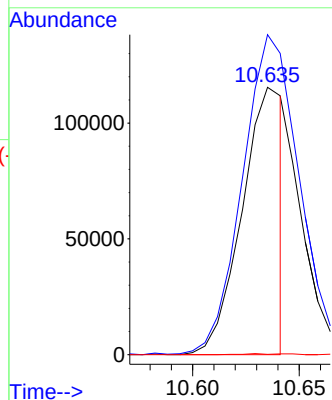
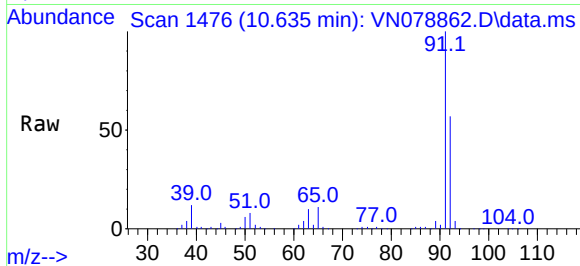




#55
2-Chloroethyl vinyl ether
Concen: 168.943 ug/l
RT: 10.635 min Scan# 14
Delta R.T. 0.470 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

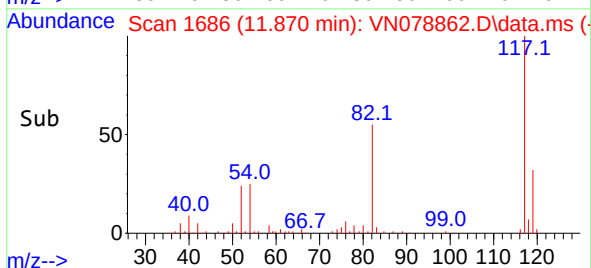
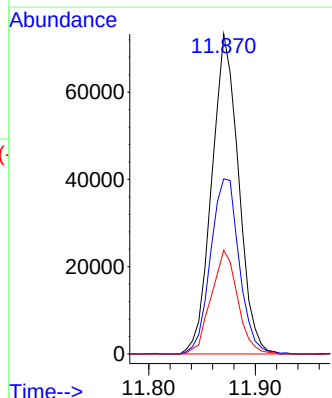
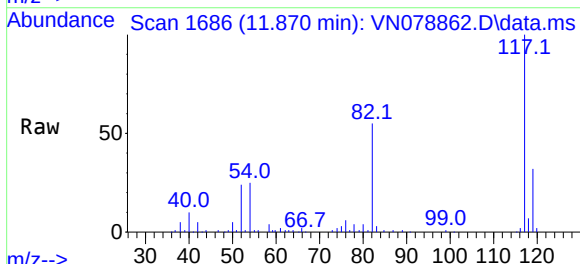
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(AUG)

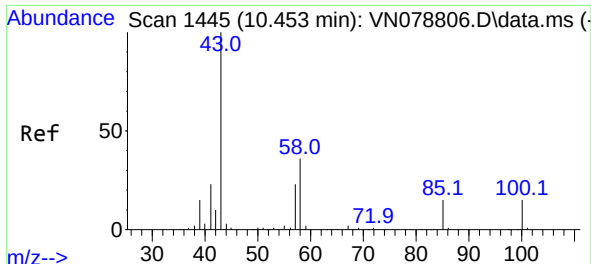
Tgt Ion: 63 Resp: 156092
Ion Ratio Lower Upper
63 100
65 117.8 26.3 39.5#
106 0.2 23.8 35.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

Tgt Ion: 117 Resp: 128152
Ion Ratio Lower Upper
117 100
82 58.5 43.9 65.9
119 32.0 26.2 39.4

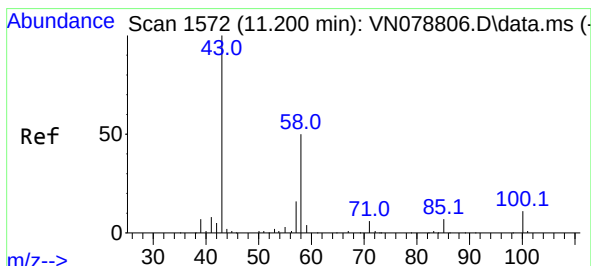
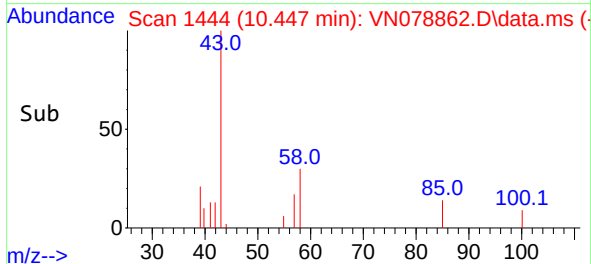
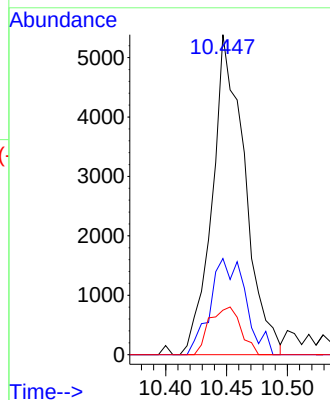
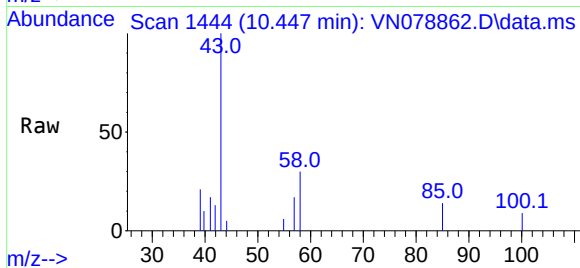




#58
4-Methyl-2-Pentanone
Concen: 4.069 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

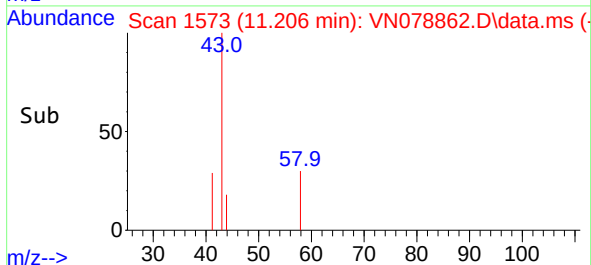
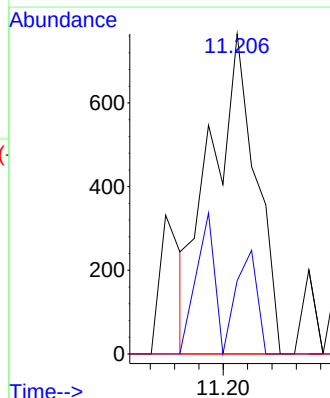
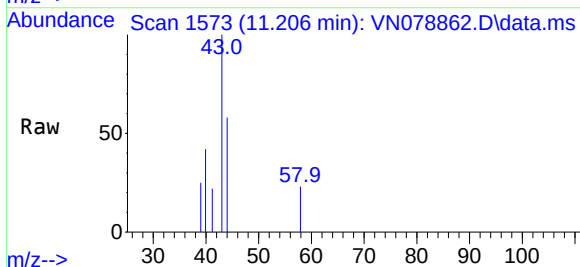
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(AUG)

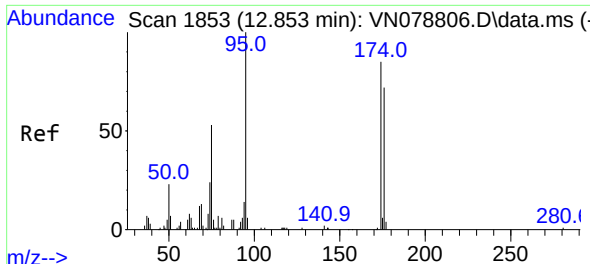
Tgt Ion: 43 Resp: 10022
Ion Ratio Lower Upper
43 100
58 31.3 32.6 48.8#
85 14.3 16.2 24.2#



#59
2-Hexanone
Concen: 0.577 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

Tgt Ion: 43 Resp: 987
Ion Ratio Lower Upper
43 100
58 15.1 45.9 68.9#
57 0.0 15.8 23.6#

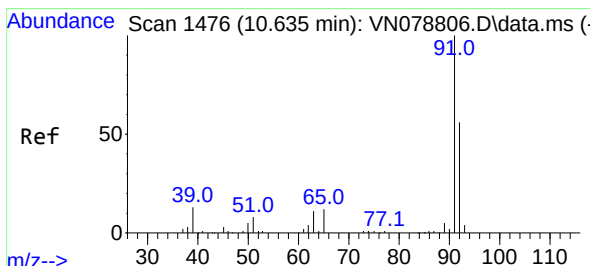
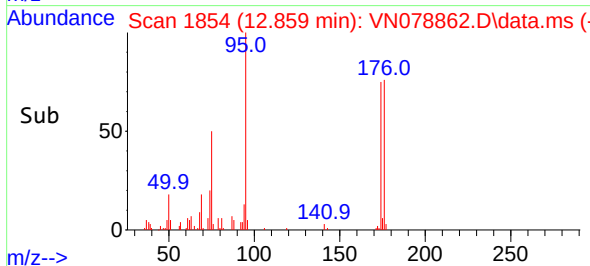
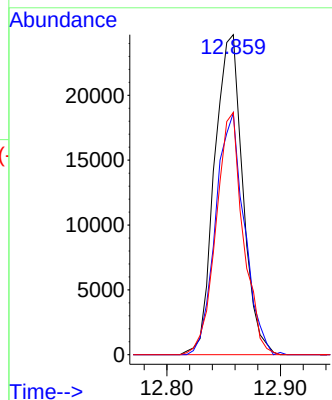
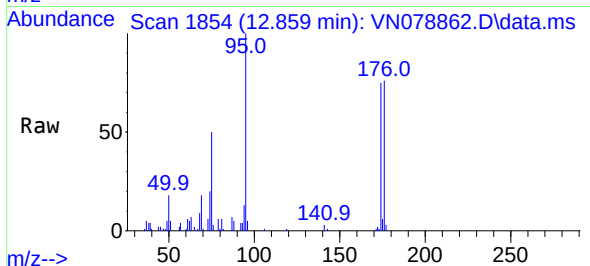




#60
4-Bromofluorobenzene
Concen: 23.715 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

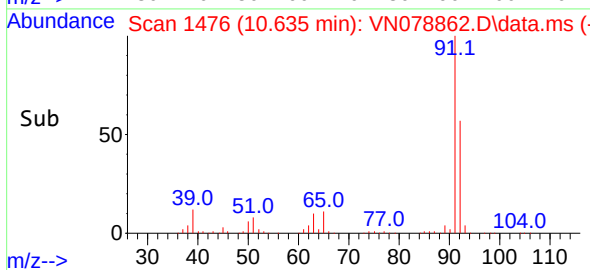
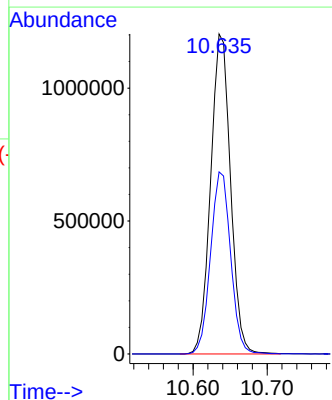
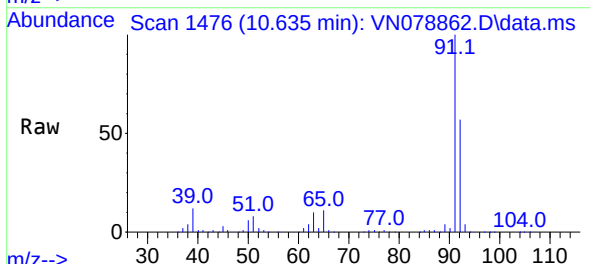
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(AUG)

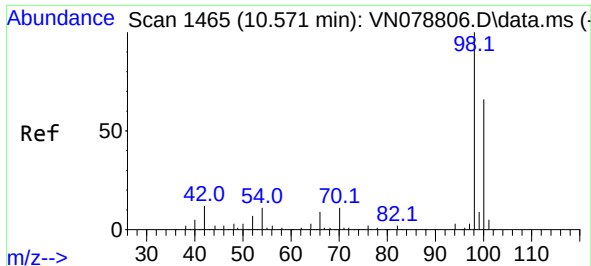
Tgt Ion: 95 Resp: 42659
Ion Ratio Lower Upper
95 100
174 76.8 61.7 92.5
176 72.8 58.1 87.1



#62
Toluene
Concen: 296.647 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

Tgt Ion: 91 Resp: 2238136
Ion Ratio Lower Upper
91 100
92 57.5 45.2 67.8

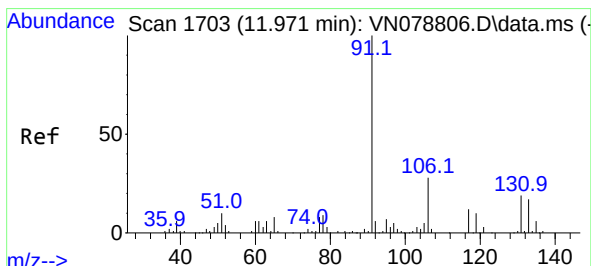
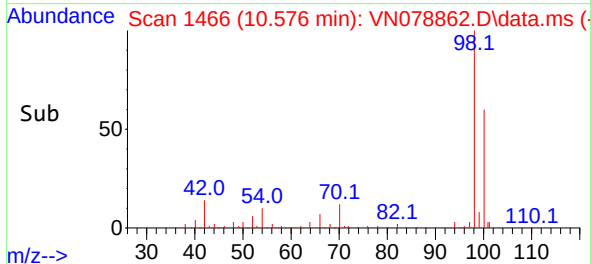
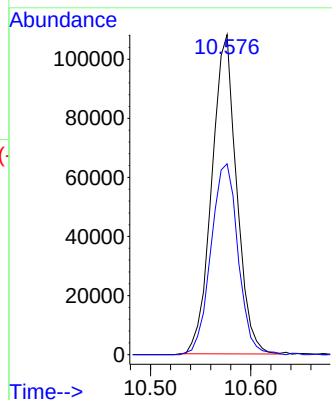
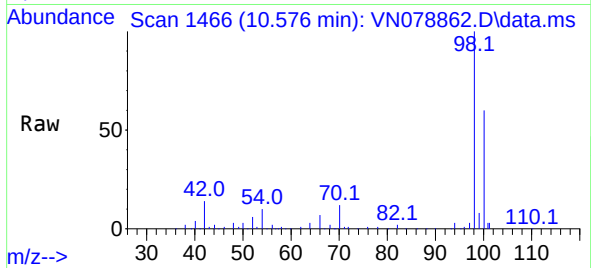




#63
Toluene-d8
Concen: 29.604 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

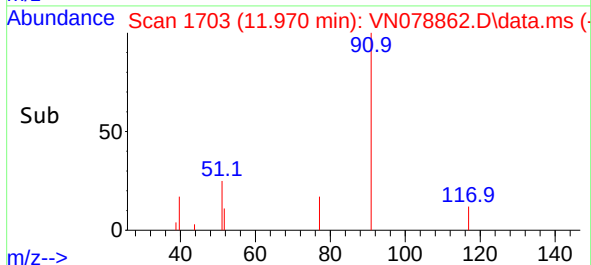
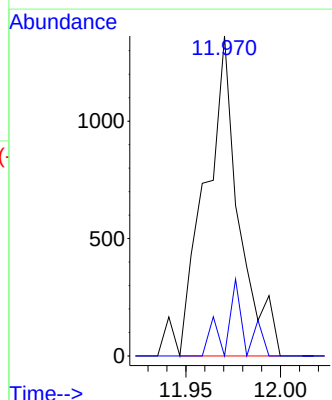
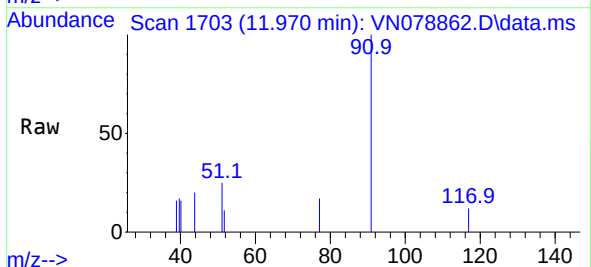
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(AUG)

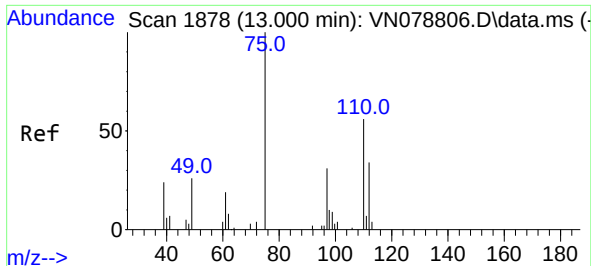
Tgt Ion: 98 Resp: 185907
Ion Ratio Lower Upper
98 100
100 65.3 49.7 74.5



#66
Ethyl Benzene
Concen: 0.212 ug/l
RT: 11.970 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

Tgt Ion: 91 Resp: 1660
Ion Ratio Lower Upper
91 100
106 0.0 25.6 38.4#

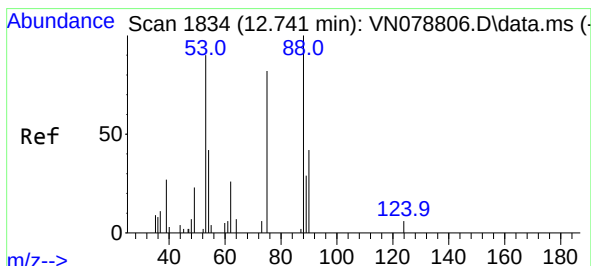
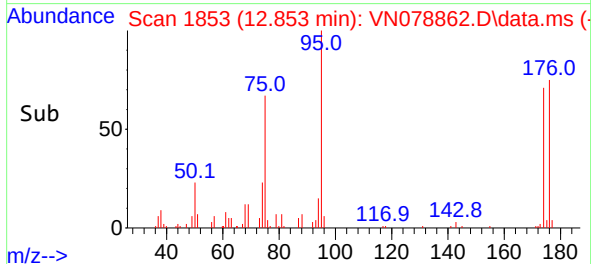
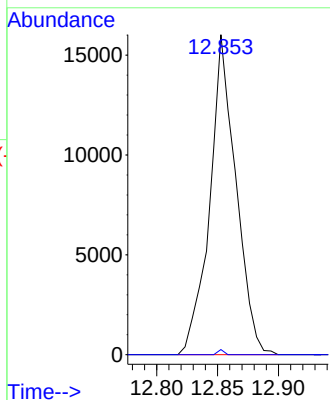
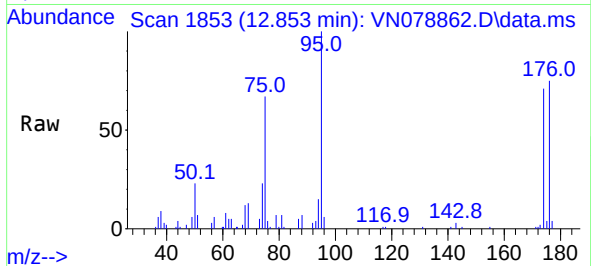




#72
1,2,3-Trichloropropane
Concen: 11.498 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

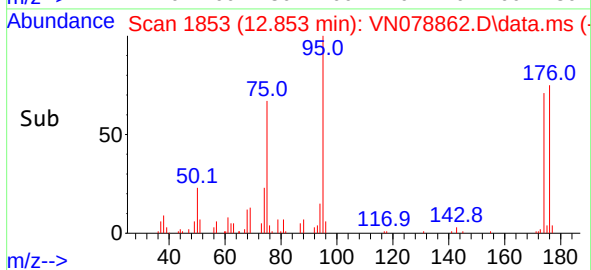
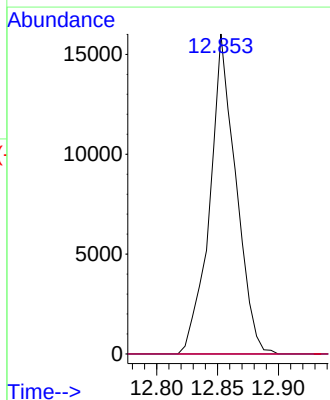
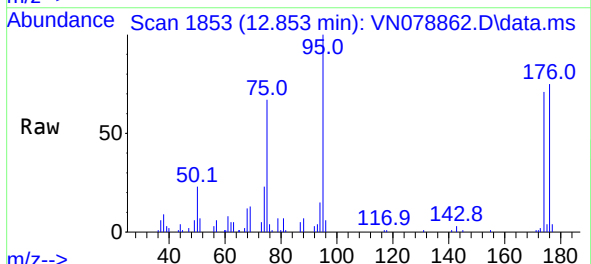
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(AUG)

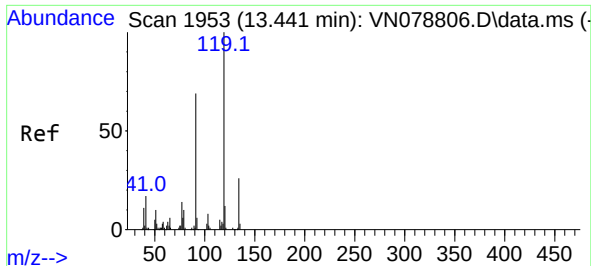
Tgt Ion: 75 Resp: 24024
Ion Ratio Lower Upper
75 100
77 0.0 0.0 387.4



#77
t-1,4-Dichloro-2-butene
Concen: 36.631 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.111 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

Tgt Ion: 75 Resp: 24024
Ion Ratio Lower Upper
75 100
53 0.0 41.6 124.9#
89 0.0 25.1 75.4#

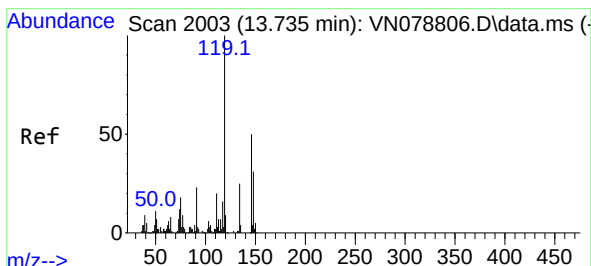
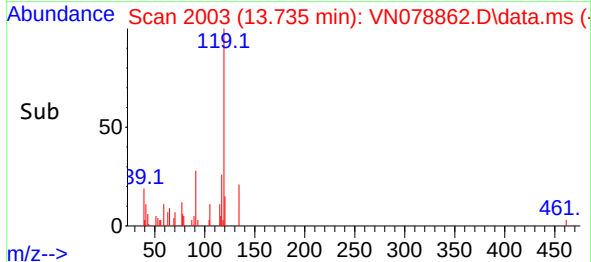
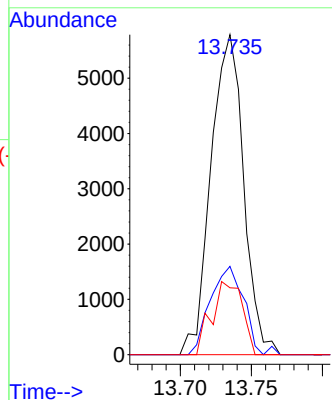
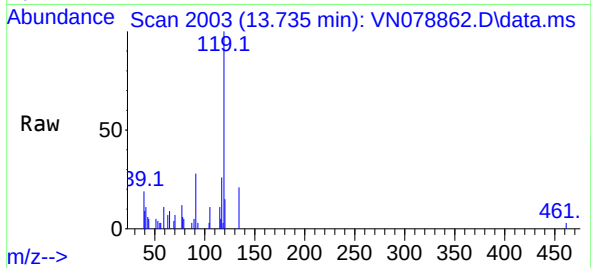




#79
tert-butylbenzene
Concen: 2.014 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.294 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

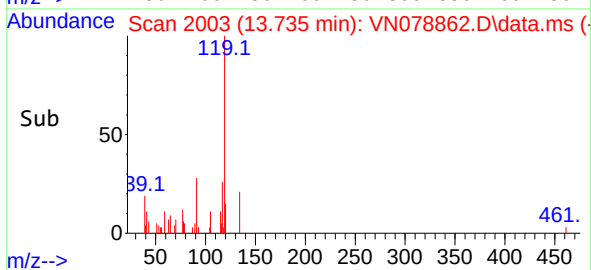
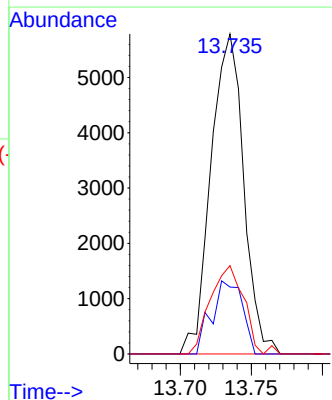
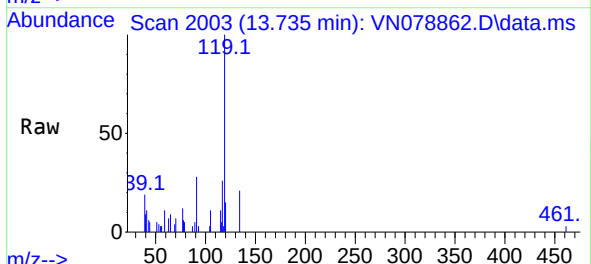
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(AUG)

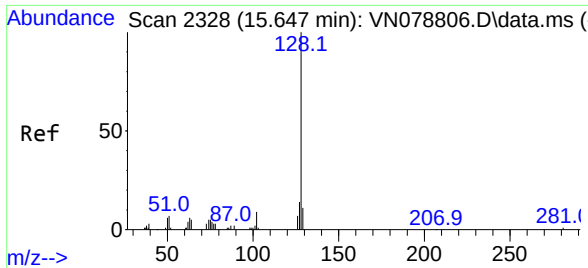
Tgt Ion:119 Resp: 9269
Ion Ratio Lower Upper
119 100
91 27.9 0.0 126.6
134 21.3 0.0 44.0



#82
p-Isopropyltoluene
Concen: 1.920 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.000 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

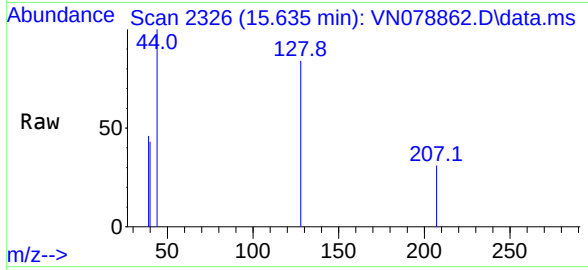
Tgt Ion:119 Resp: 9269
Ion Ratio Lower Upper
119 100
134 21.3 0.0 52.4
91 27.9 0.0 48.2





#91
Naphthalene
Concen: 0.205 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.012 min
Lab File: VN078862.D
Acq: 11 Aug 2023 14:51

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



Tgt Ion:	128	Resp:	455
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	9.0	13.4#

