

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092024\
 Data File : VN084071.D
 Acq On : 20 Sep 2024 15:33
 Operator : JC\MD
 Sample : PB163512ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB163512ZHE#04

Quant Time: Sep 23 01:04:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

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

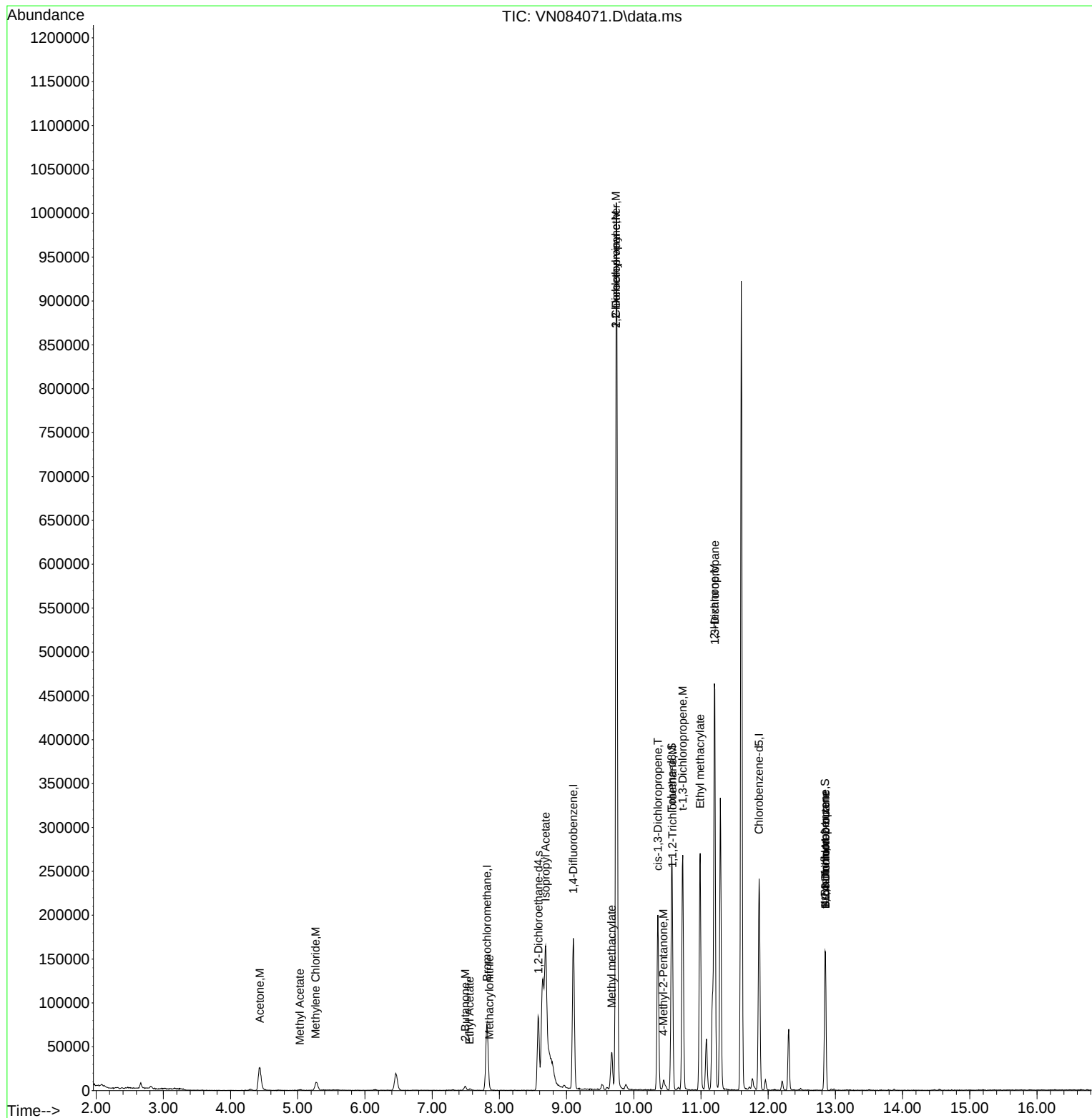
Internal Standards						
1) Bromochloromethane	7.818	128	25350	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	138580	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	128986	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	70946	30.617	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.067%
60) 4-Bromofluorobenzene	12.847	95	55055	24.766	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	82.567%
63) Toluene-d8	10.565	98	178391	29.869	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.567%
Target Compounds						
					Qvalue	
12) Methyl Acetate	5.030	43	394	0.207	ug/l #	40
15) Acetone	4.436	58	14762	57.873	ug/l	83
18) Methylene Chloride	5.265	84	2927	1.698	ug/l	94
30) 2-Butanone	7.494	43	7741	7.471	ug/l #	82
35) Methacrylonitrile	7.853	41	399	0.343	ug/l #	41
39) 1,2-Dichloropropane	9.735	63	1188	0.748	ug/l #	43
43) Ethyl Acetate	7.559	43	675	0.324	ug/l #	30
44) Isopropyl Acetate	8.688	43	162459	45.038	ug/l #	68
46) Methyl methacrylate	9.671	41	3309	1.895	ug/l #	23
48) t-1,3-Dichloropropene	10.729	75	701	0.270	ug/l #	45
49) cis-1,3-Dichloropropene	10.359	75	33751	12.501	ug/l #	72
50) 1,1,2-Trichloroethane	10.576	97	5495	3.721	ug/l #	1
51) Ethyl methacrylate	10.988	69	1225	0.486	ug/l #	1
52) 1,3-Dichloropropane	11.206	76	4927	1.847	ug/l #	42
55) 2-Chloroethyl vinyl ether	9.735	63	1188	1.181	ug/l #	43
56) Bromoform	12.853	173	372	0.331	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	11725	5.733	ug/l #	71
59) 2-Hexanone	11.200	43	65592	42.443	ug/l #	1
72) 1,2,3-Trichloropropane	12.853	75	31327	16.513	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	31327	39.066	ug/l #	12

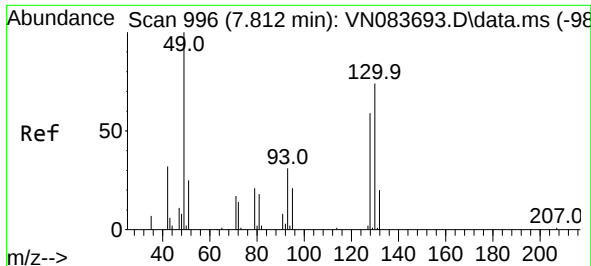
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 06 23:42:47 2024
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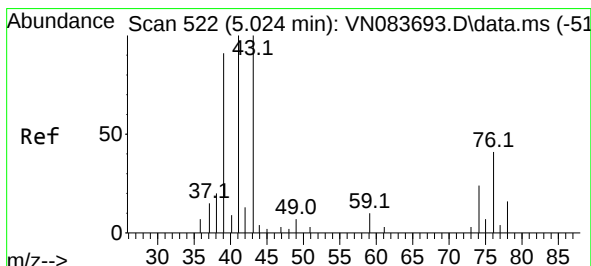
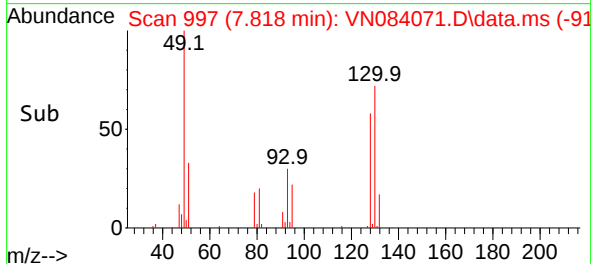
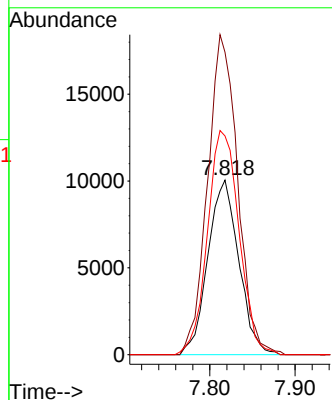
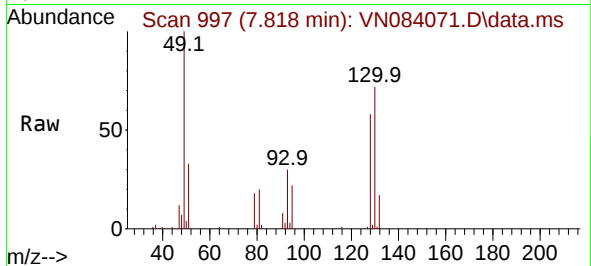




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

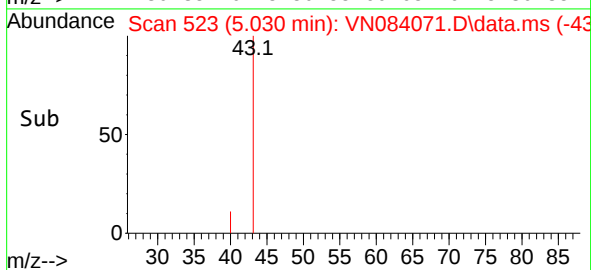
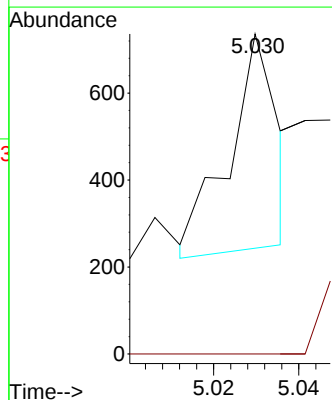
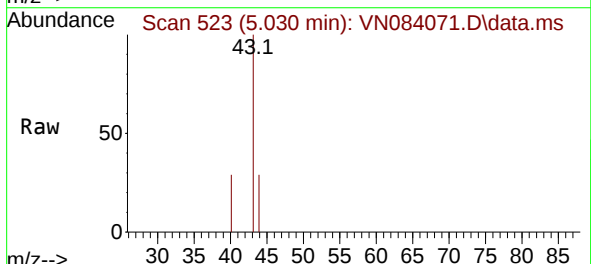
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#04

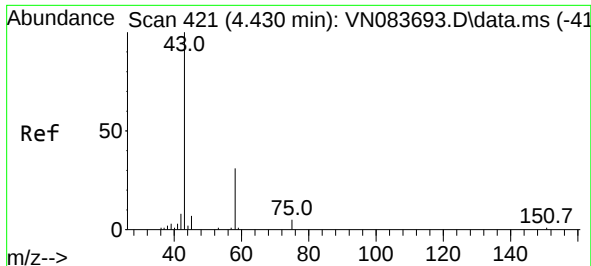
Tgt Ion:128 Resp: 25350
Ion Ratio Lower Upper
128 100
49 178.0 0.0 403.7
130 131.5 0.0 323.3



#12
Methyl Acetate
Concen: 0.207 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

Tgt Ion: 43 Resp: 394
Ion Ratio Lower Upper
43 100
74 0.0 27.7 41.5#





#15

Acetone

Concen: 57.873 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN084071.D

Acq: 20 Sep 2024 15:33

Instrument :

MSVOA_N

ClientSampleId :

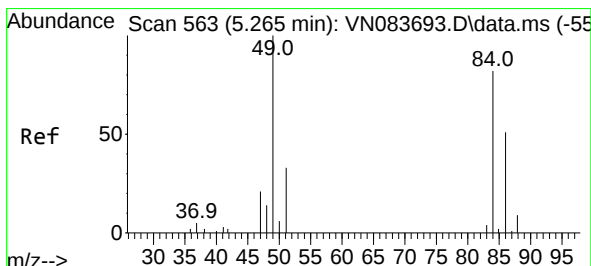
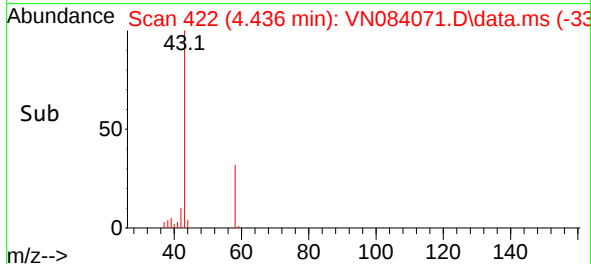
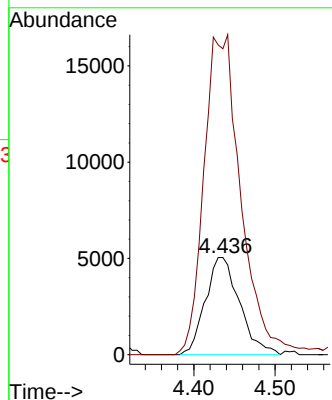
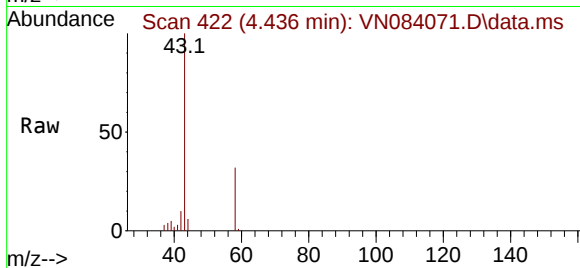
PB163512ZHE#04

Tgt Ion: 58 Resp: 14762

Ion Ratio Lower Upper

58 100

43 310.9 223.1 334.7



#18

Methylene Chloride

Concen: 1.698 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.000 min

Lab File: VN084071.D

Acq: 20 Sep 2024 15:33

Tgt Ion: 84 Resp: 2927

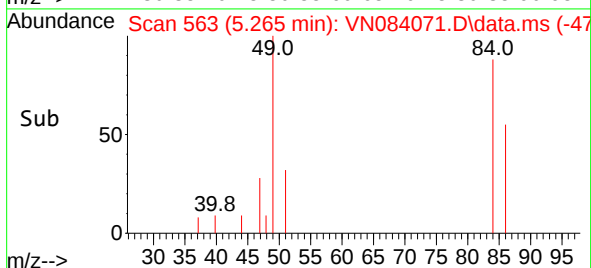
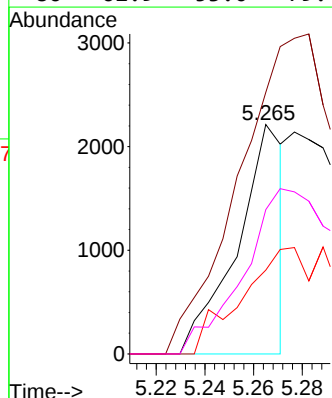
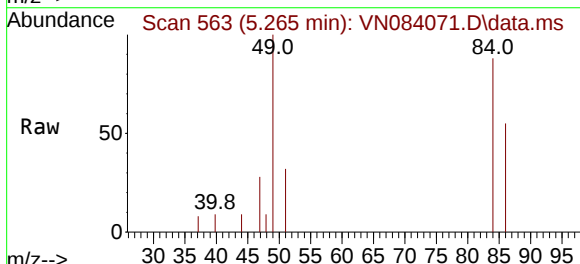
Ion Ratio Lower Upper

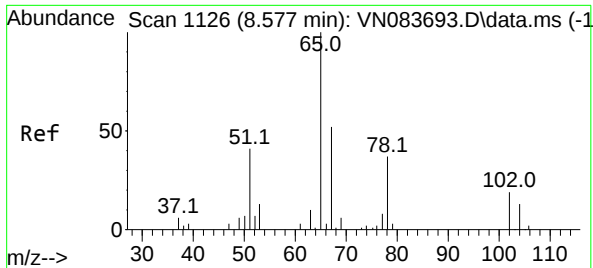
84 100

49 98.8 86.0 129.0

51 36.5 30.0 45.0

86 62.9 53.0 79.4

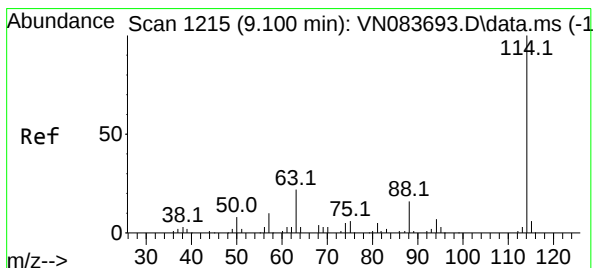
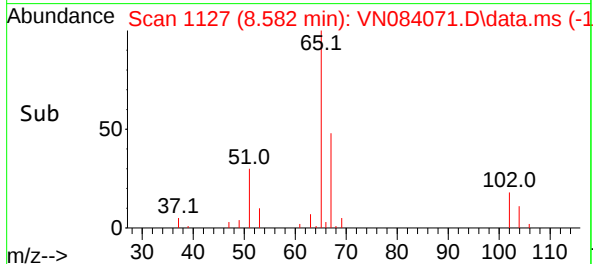
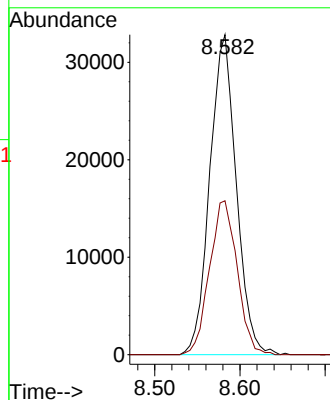
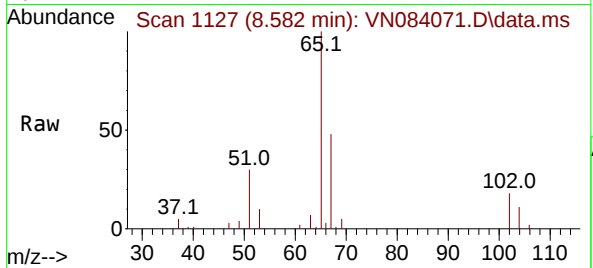




#27
 1,2-Dichloroethane-d4
 Concen: 30.617 ug/l
 RT: 8.582 min Scan# 1127
 Delta R.T. 0.006 min
 Lab File: VN084071.D
 Acq: 20 Sep 2024 15:33

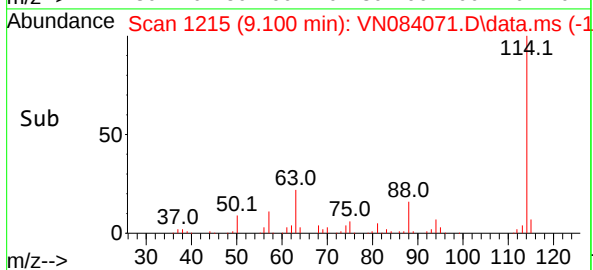
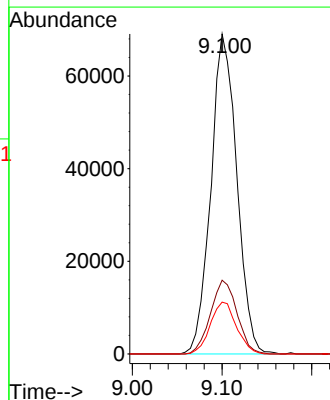
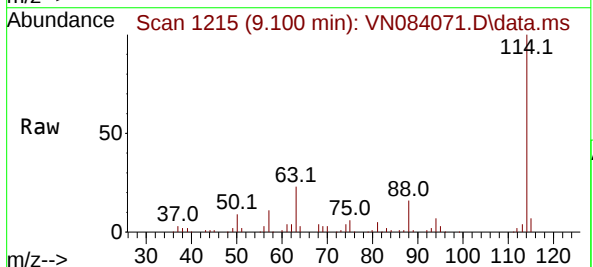
Instrument :
 MSVOA_N
 ClientSampleId :
 PB163512ZHE#04

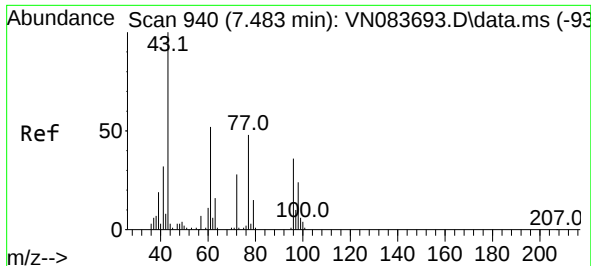
Tgt Ion: 65 Resp: 70946
 Ion Ratio Lower Upper
 65 100
 67 50.2 43.2 64.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. -0.000 min
 Lab File: VN084071.D
 Acq: 20 Sep 2024 15:33

Tgt Ion: 114 Resp: 138580
 Ion Ratio Lower Upper
 114 100
 63 23.5 15.9 23.9
 88 16.4 12.7 19.1

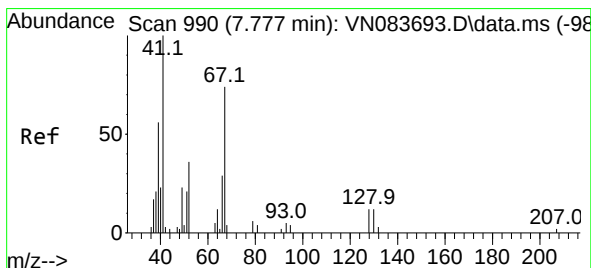
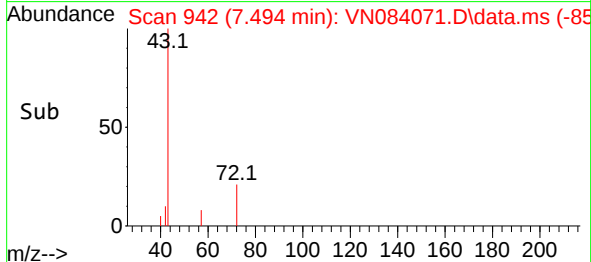
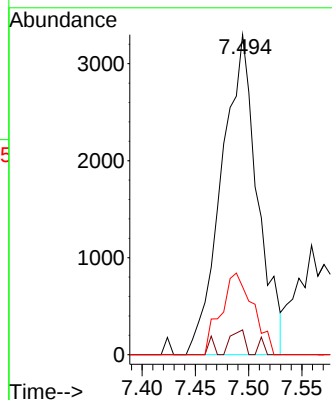
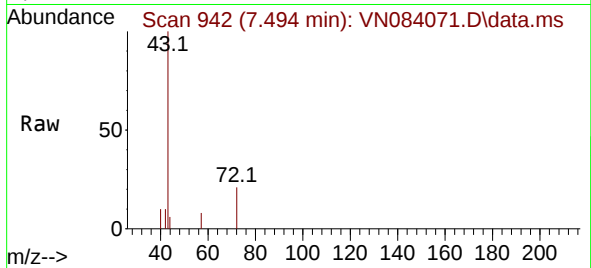




#30
2-Butanone
Concen: 7.471 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

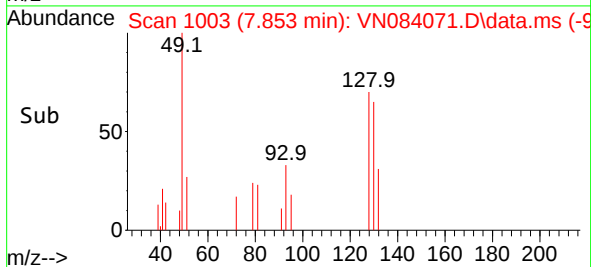
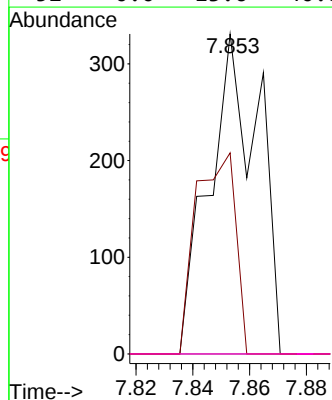
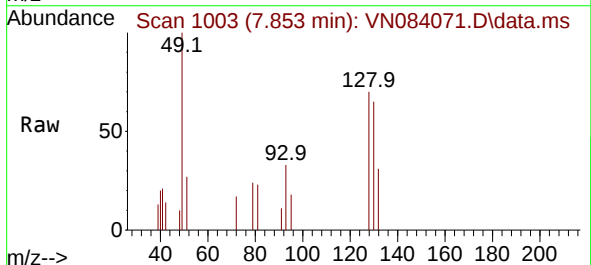
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#04

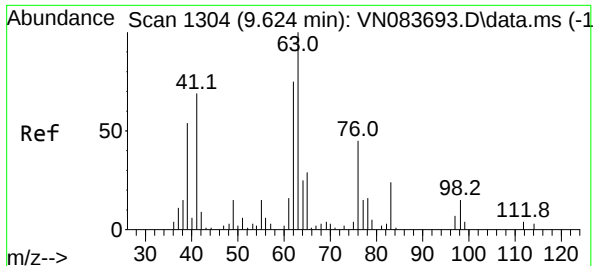
Tgt Ion: 43 Resp: 7741
Ion Ratio Lower Upper
43 100
57 3.0 6.7 10.1#
72 19.6 24.0 36.0#



#35
Methacrylonitrile
Concen: 0.343 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.076 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

Tgt Ion: 41 Resp: 399
Ion Ratio Lower Upper
41 100
39 62.8 25.3 75.9
67 0.0 38.7 116.1#
52 0.0 13.6 40.8#





#39

1,2-Dichloropropane

Concen: 0.748 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN084071.D

Acq: 20 Sep 2024 15:33

Instrument :

MSVOA_N

ClientSampleId :

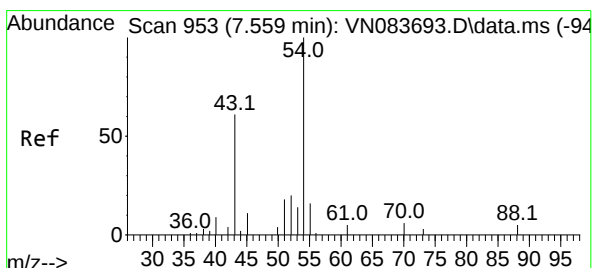
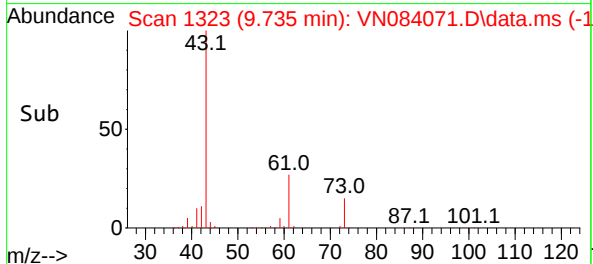
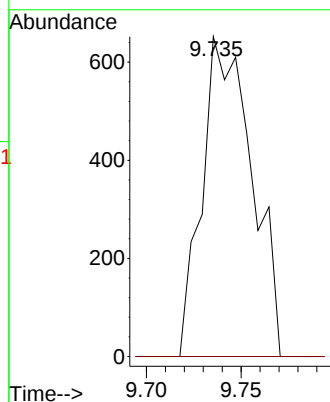
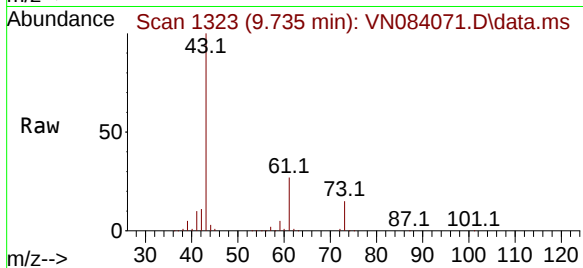
PB163512ZHE#04

Tgt Ion: 63 Resp: 1188

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#43

Ethyl Acetate

Concen: 0.324 ug/l

RT: 7.559 min Scan# 953

Delta R.T. -0.000 min

Lab File: VN084071.D

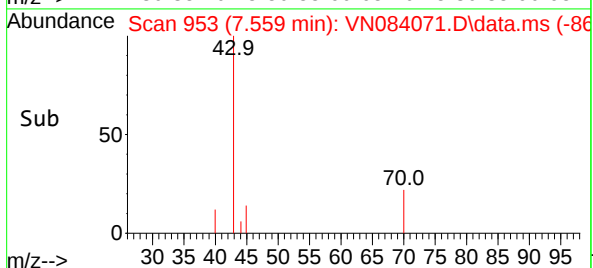
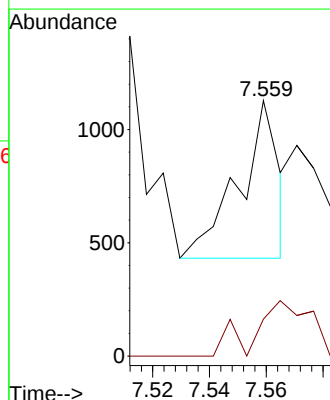
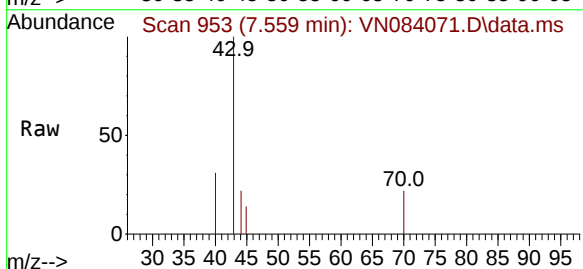
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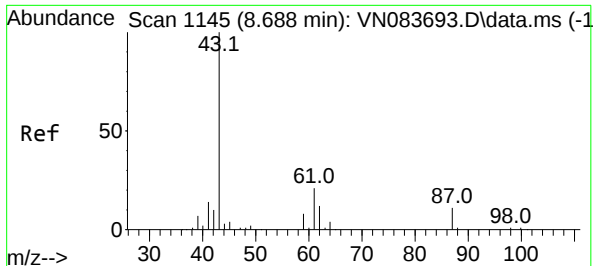
Tgt Ion: 43 Resp: 675

Ion Ratio Lower Upper

43 100

45 41.0 10.6 15.8#

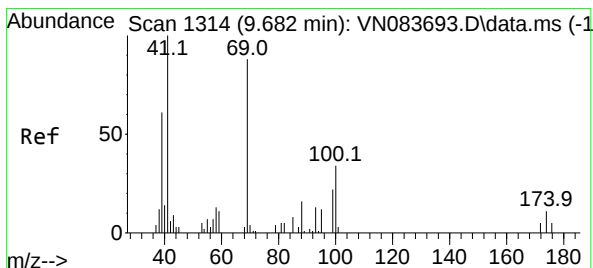
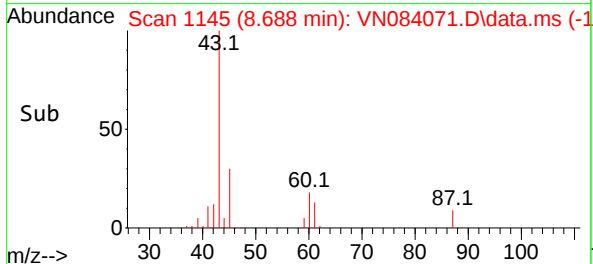
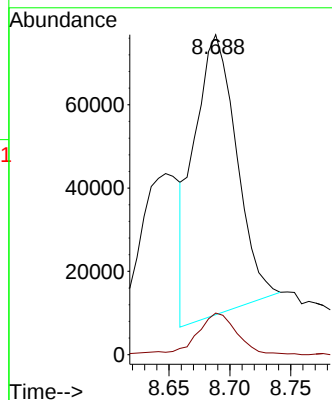
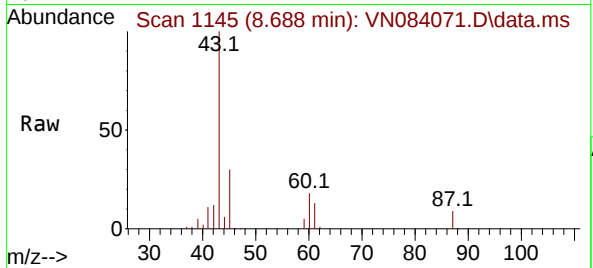




#44
Isopropyl Acetate
Concen: 45.038 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

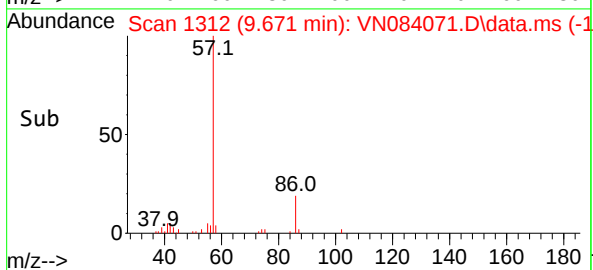
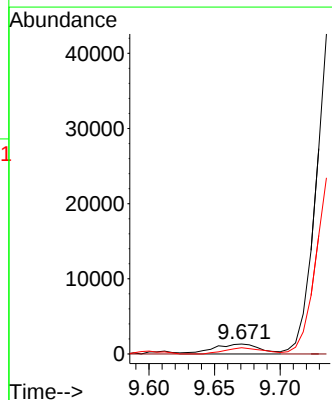
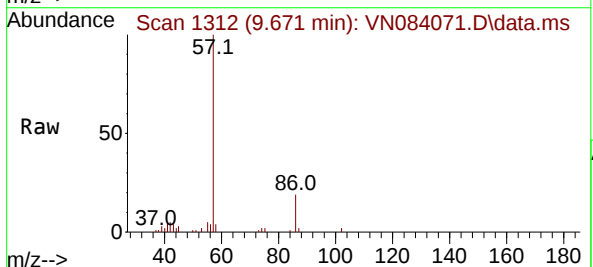
Instrument :
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PB163512ZHE#04

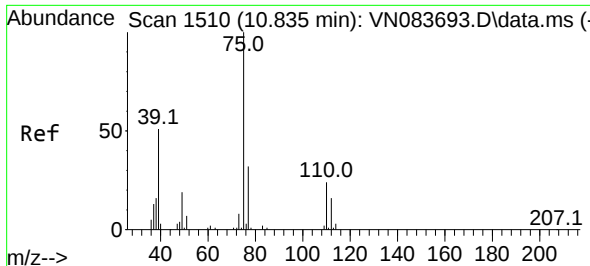
Tgt Ion: 43 Resp: 162459
Ion Ratio Lower Upper
43 100
61 13.7 25.0 37.4#



#46
Methyl methacrylate
Concen: 1.895 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.012 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

Tgt Ion: 41 Resp: 3309
Ion Ratio Lower Upper
41 100
69 0.0 51.1 153.3#
39 71.1 25.8 77.3

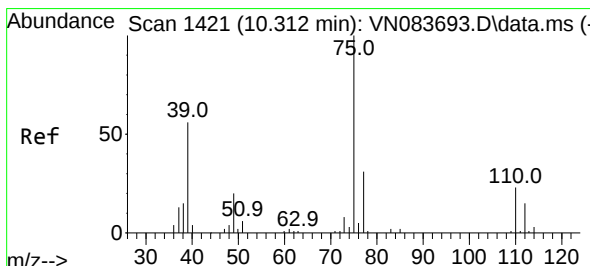
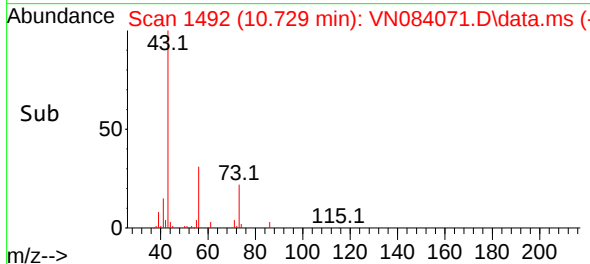
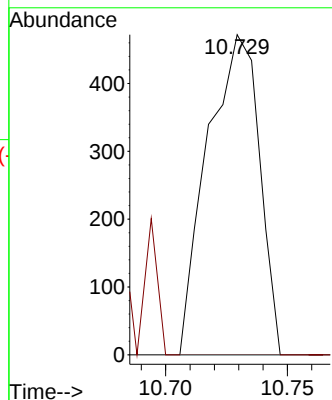
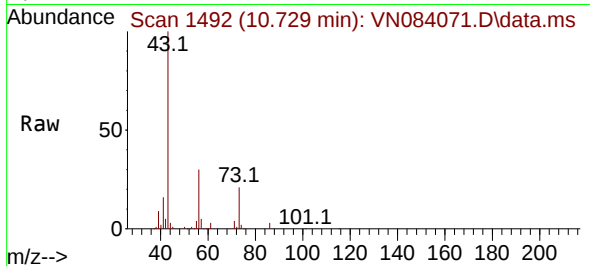




#48
t-1,3-Dichloropropene
Concen: 0.270 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

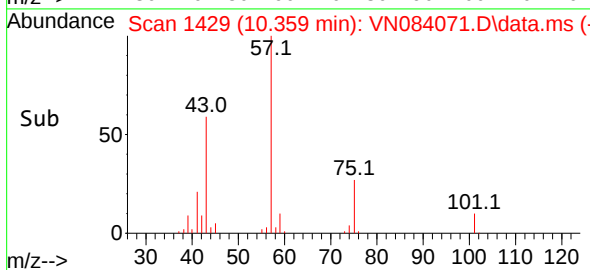
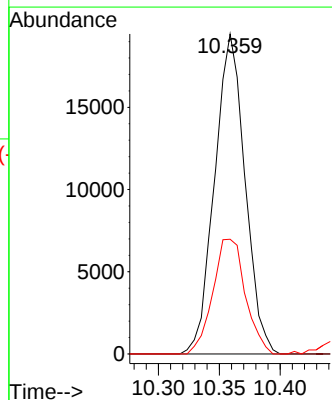
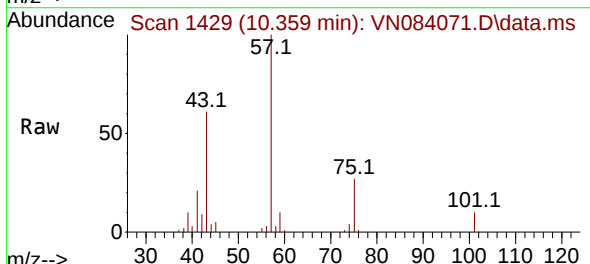
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#04

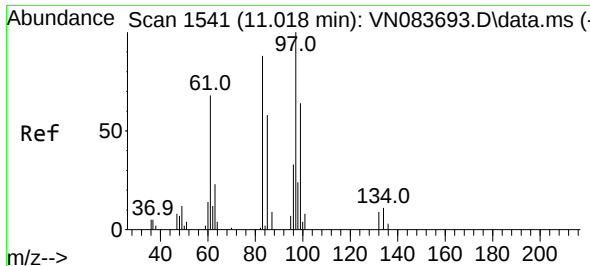
Tgt Ion: 75 Resp: 701
Ion Ratio Lower Upper
75 100
77 0.0 23.8 35.6#



#49
cis-1,3-Dichloropropene
Concen: 12.501 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

Tgt Ion: 75 Resp: 33751
Ion Ratio Lower Upper
75 100
77 0.0 24.9 37.3#
39 35.9 31.0 46.6

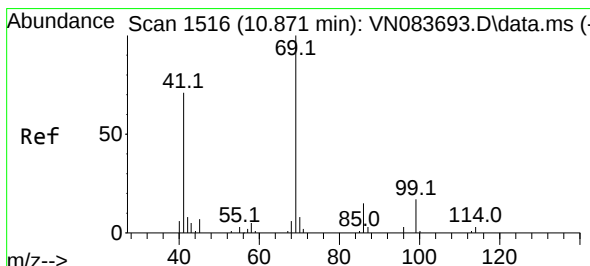
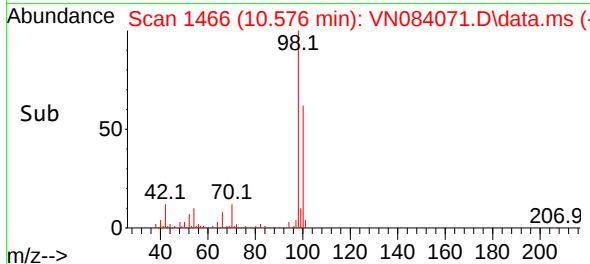
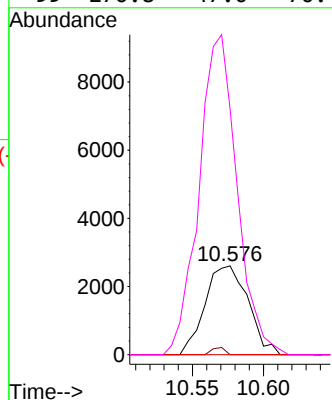
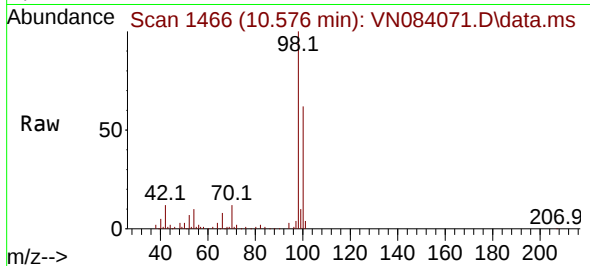




#50
1,1,2-Trichloroethane
Concen: 3.721 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. -0.441 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

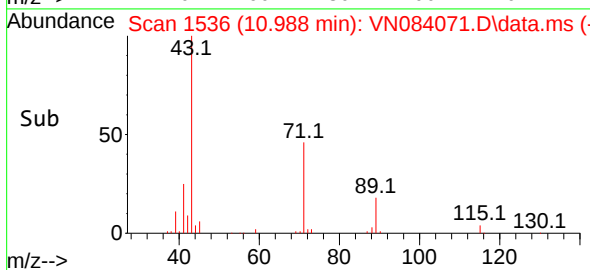
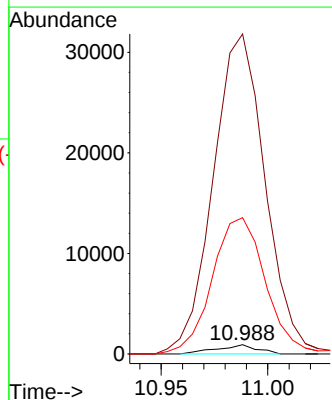
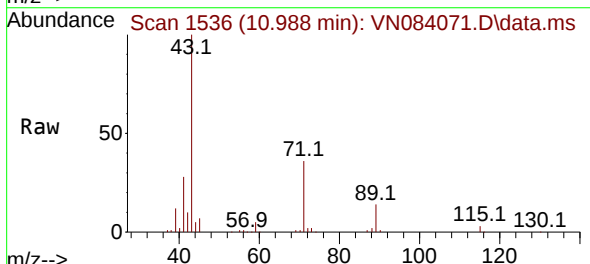
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#04

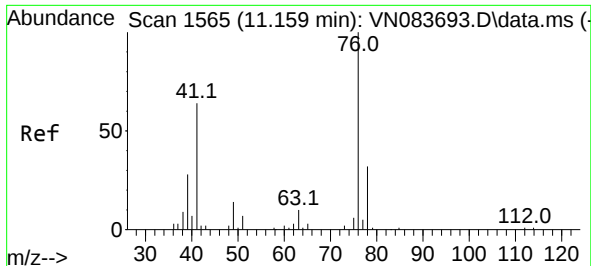
Tgt Ion: 97 Resp: 5495
Ion Ratio Lower Upper
97 100
83 0.0 68.1 102.1#
85 0.0 41.8 62.6#
99 270.8 47.0 70.4#



#51
Ethyl methacrylate
Concen: 0.486 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.118 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

Tgt Ion: 69 Resp: 1225
Ion Ratio Lower Upper
69 100
41 3263.6 25.5 76.5#
39 1383.2 16.0 47.9#

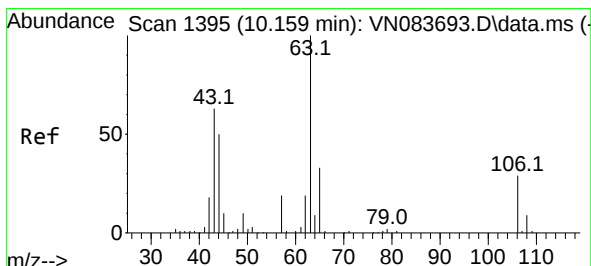
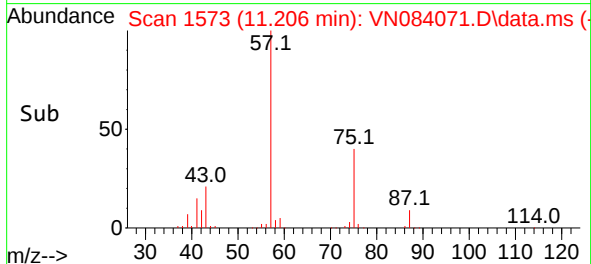
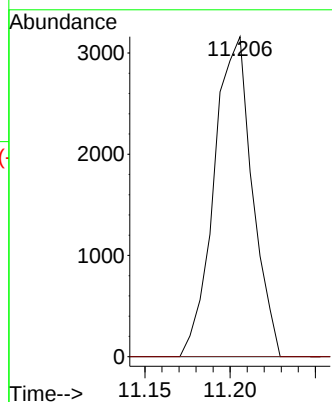
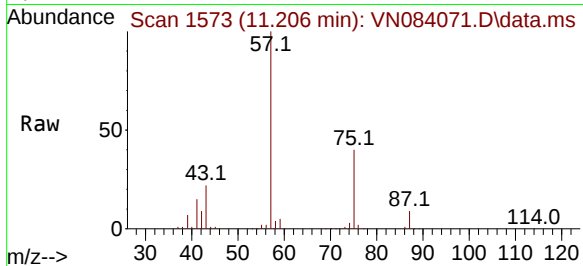




#52
1,3-Dichloropropane
Concen: 1.847 ug/l
RT: 11.206 min Scan# 111
Delta R.T. 0.047 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

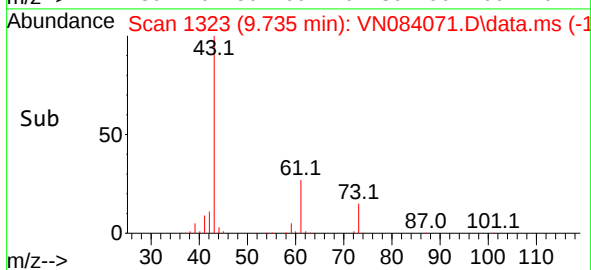
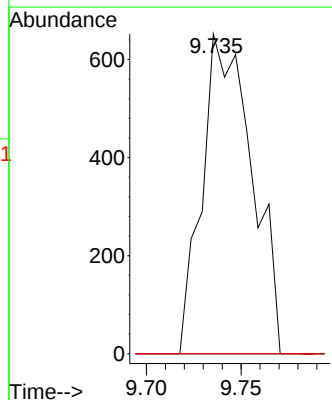
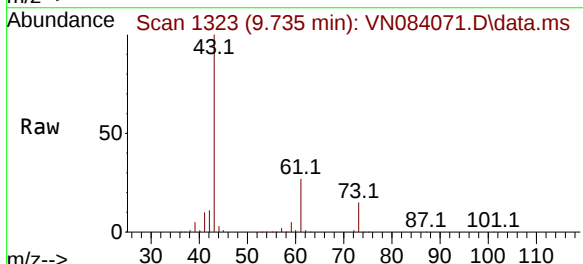
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#04

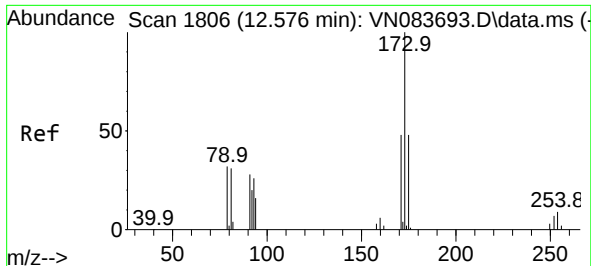
Tgt Ion: 76 Resp: 4927
Ion Ratio Lower Upper
76 100
78 0.0 0.0 65.8



#55
2-Chloroethyl vinyl ether
Concen: 1.181 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. -0.424 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

Tgt Ion: 63 Resp: 1188
Ion Ratio Lower Upper
63 100
65 0.0 26.2 39.2#
106 0.0 23.8 35.8#

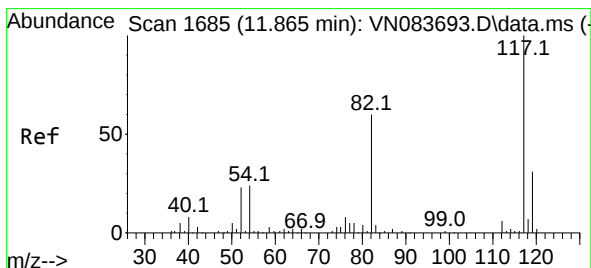
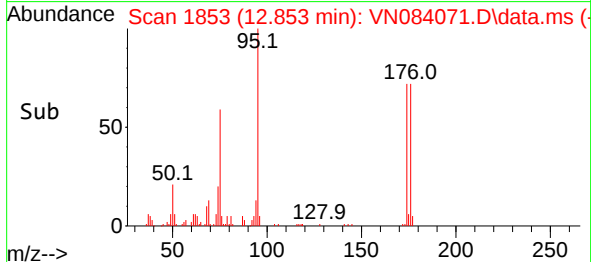
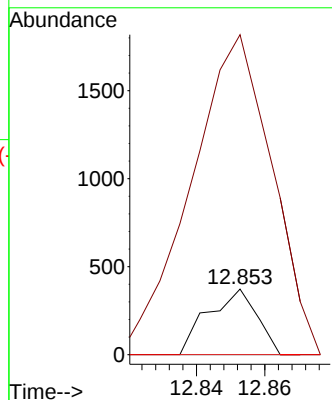
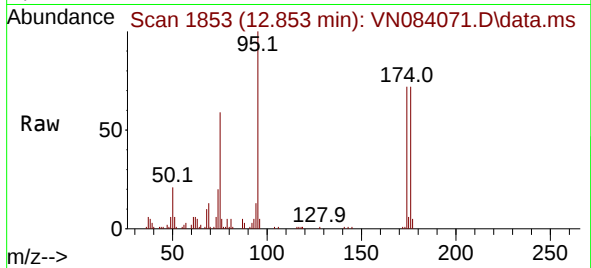




#56
Bromoform
Concen: 0.331 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.276 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

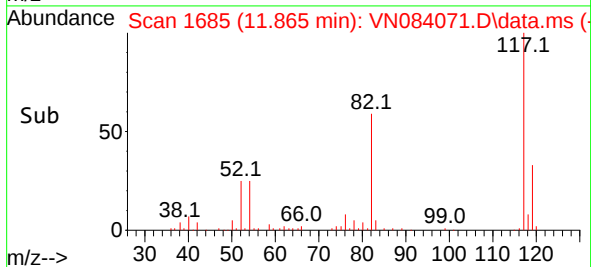
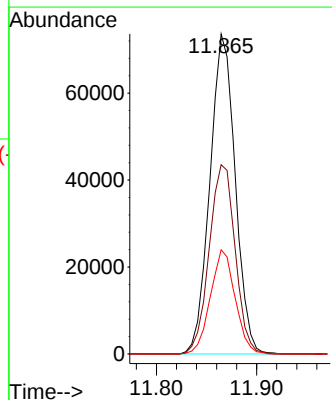
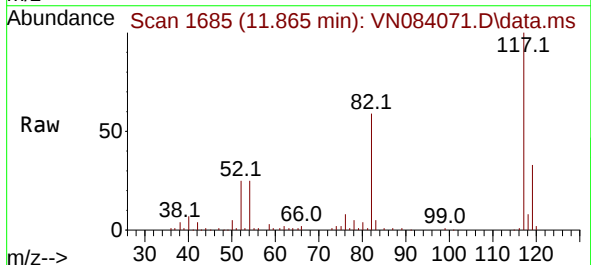
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#04

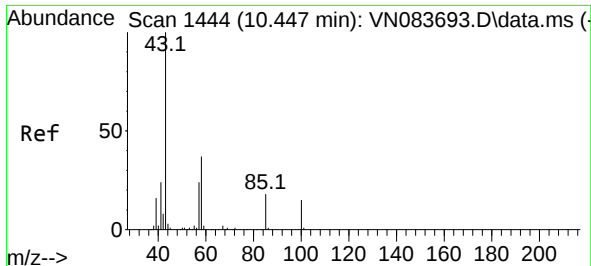
Tgt Ion:173 Resp: 372
Ion Ratio Lower Upper
173 100
175 807.0 40.0 60.0#
254 0.0 8.3 12.5#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

Tgt Ion:117 Resp: 128986
Ion Ratio Lower Upper
117 100
82 60.7 46.6 69.8
119 31.8 25.4 38.2

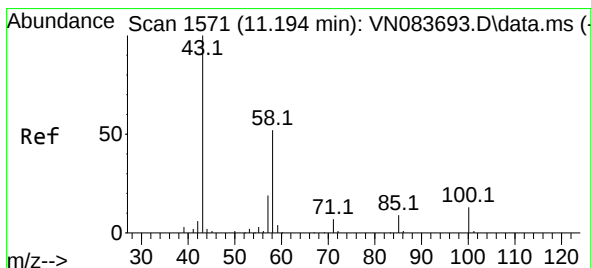
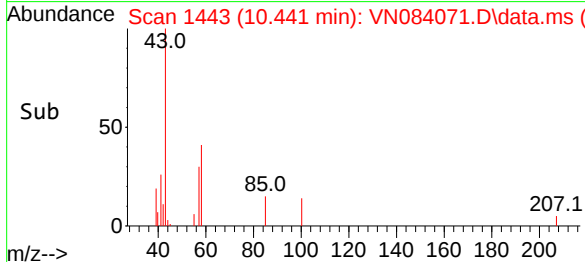
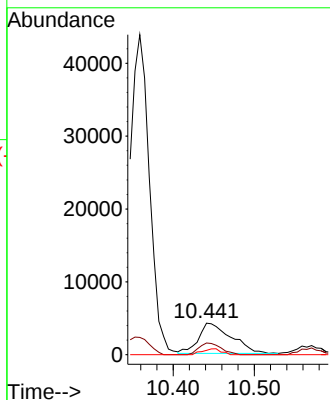
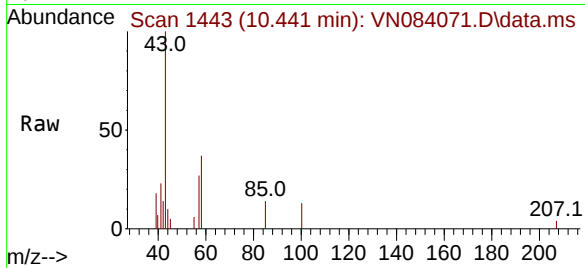




#58
4-Methyl-2-Pentanone
Concen: 5.733 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

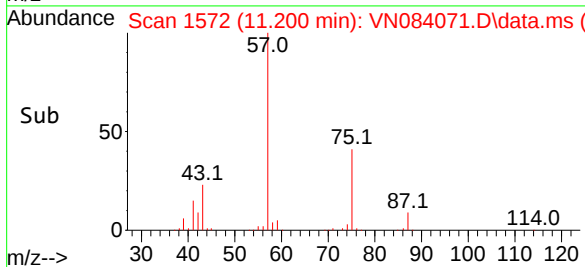
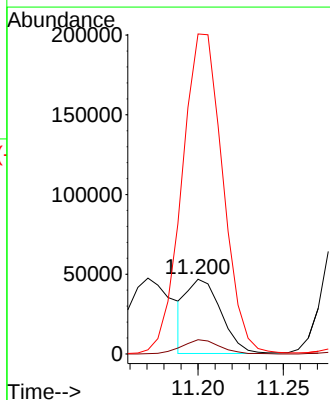
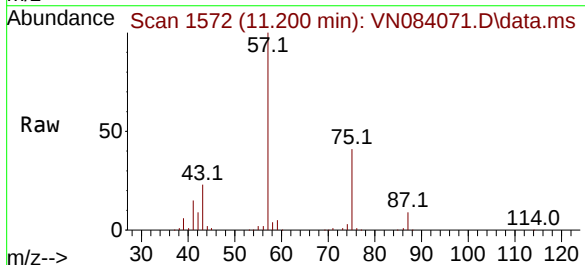
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#04

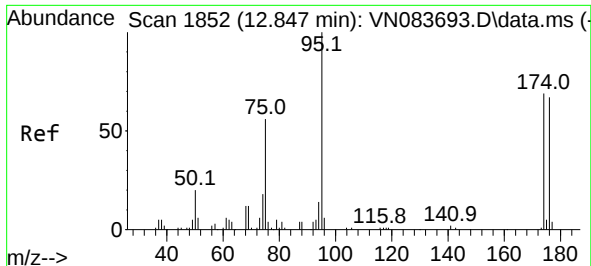
Tgt Ion: 43 Resp: 11725
Ion Ratio Lower Upper
43 100
58 26.0 36.5 54.7#
85 11.0 19.5 29.3#



#59
2-Hexanone
Concen: 42.443 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

Tgt Ion: 43 Resp: 65592
Ion Ratio Lower Upper
43 100
58 21.3 50.4 75.6#
57 511.7 18.6 27.8#

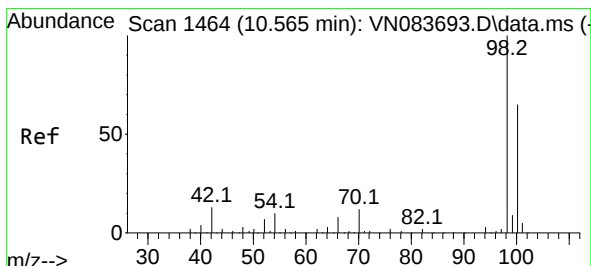
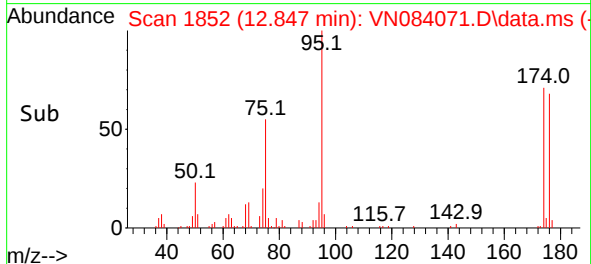
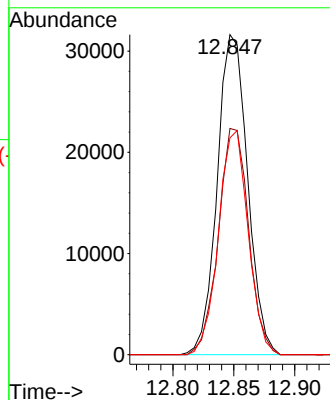
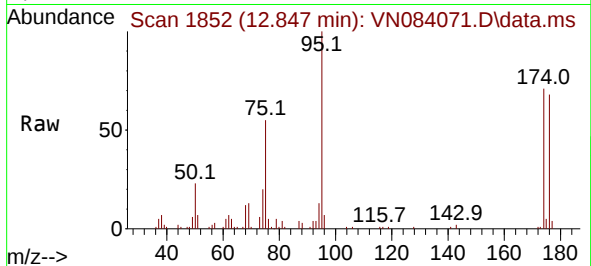




#60
4-Bromofluorobenzene
Concen: 24.766 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

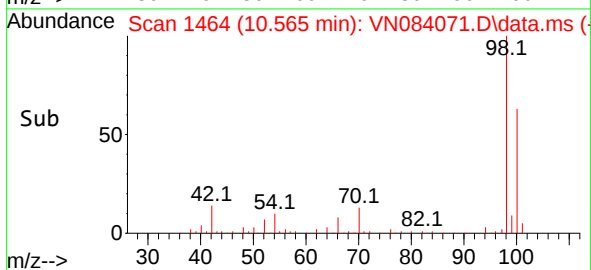
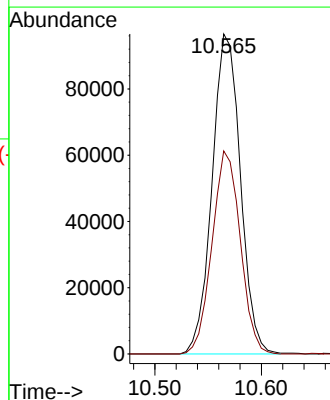
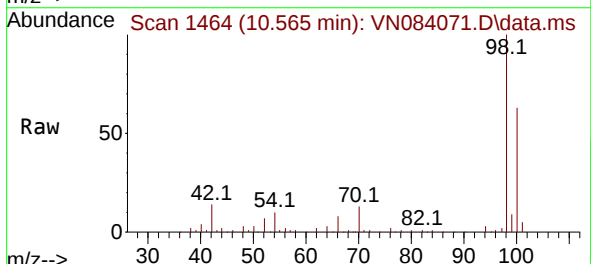
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#04

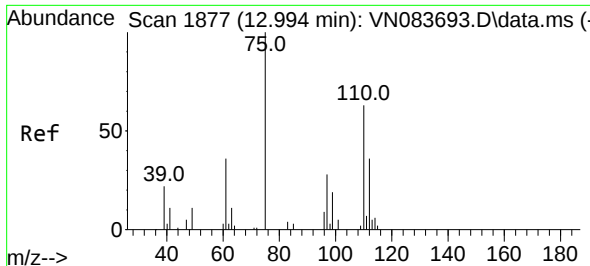
Tgt Ion: 95 Resp: 55055
Ion Ratio Lower Upper
95 100
174 70.1 60.5 90.7
176 68.2 57.8 86.6



#63
Toluene-d8
Concen: 29.869 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

Tgt Ion: 98 Resp: 178391
Ion Ratio Lower Upper
98 100
100 63.2 52.7 79.1

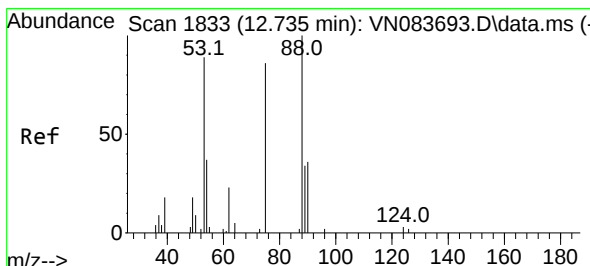
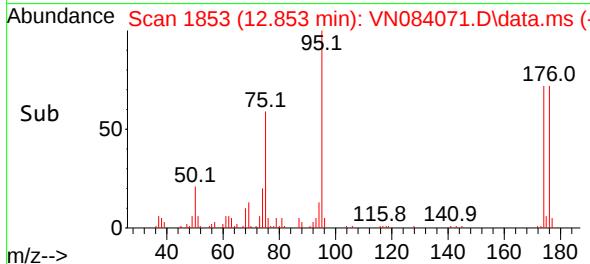
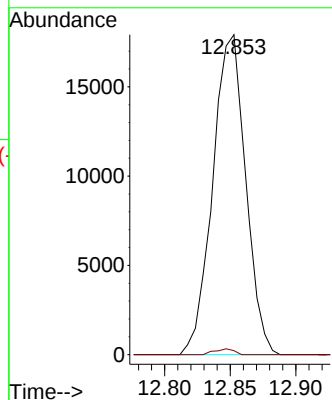
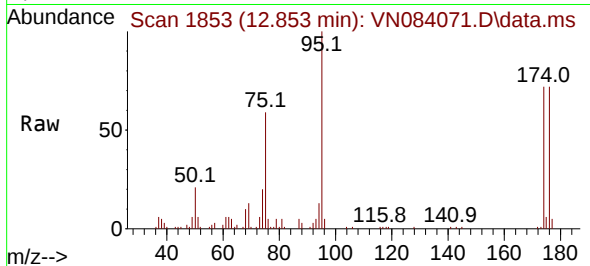




#72
1,2,3-Trichloropropane
Concen: 16.513 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#04

Tgt Ion: 75 Resp: 31327
Ion Ratio Lower Upper
75 100
77 1.1 0.0 367.6



#77
t-1,4-Dichloro-2-butene
Concen: 39.066 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN084071.D
Acq: 20 Sep 2024 15:33

Tgt Ion: 75 Resp: 31327
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#

