

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092024\
 Data File : VN084074.D
 Acq On : 20 Sep 2024 16:45
 Operator : JC\MD
 Sample : PB163512ZHE#07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB163512ZHE#07

Quant Time: Sep 23 01:05:43 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)

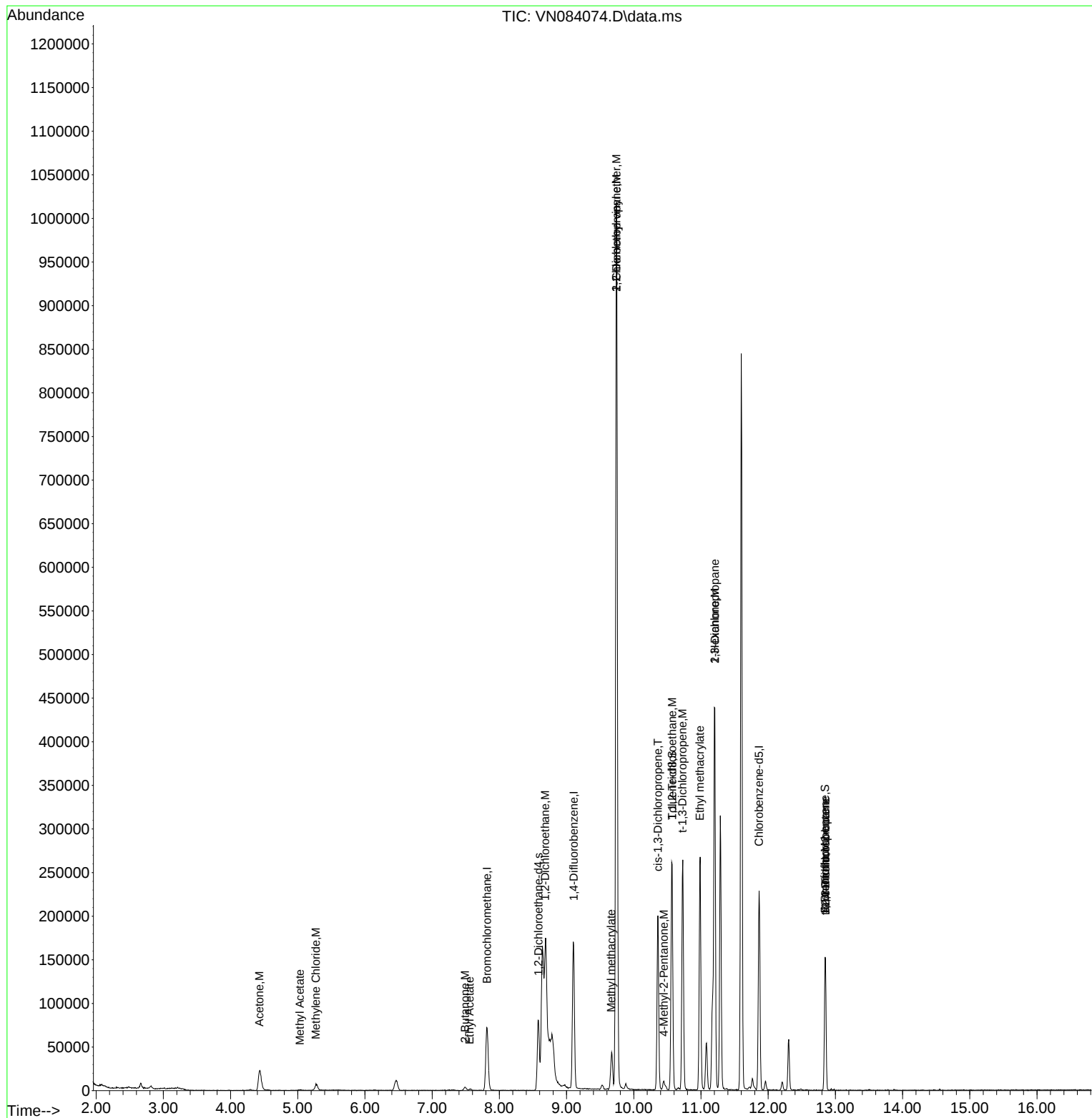
Internal Standards						
1) Bromochloromethane	7.818	128	24607	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	136911	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	125332	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	69507	30.902	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.000%
60) 4-Bromofluorobenzene	12.847	95	52523	24.315	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	81.067%
63) Toluene-d8	10.571	98	172913	29.795	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.333%
Target Compounds						
					Qvalue	
12) Methyl Acetate	5.030	43	530	0.287	ug/l #	40
15) Acetone	4.430	58	7015	28.332	ug/l	76
18) Methylene Chloride	5.271	84	2786	1.665	ug/l #	79
30) 2-Butanone	7.488	43	6243	6.099	ug/l #	79
36) 1,2-Dichloroethane	8.682	62	654	0.267	ug/l #	72
39) 1,2-Dichloropropane	9.741	63	1066	0.680	ug/l #	43
43) Ethyl Acetate	7.559	43	1604	0.778	ug/l #	91
46) Methyl methacrylate	9.665	41	2943	1.706	ug/l #	32
48) t-1,3-Dichloropropene	10.724	75	695	0.271	ug/l #	45
49) cis-1,3-Dichloropropene	10.359	75	32079	12.027	ug/l #	74
50) 1,1,2-Trichloroethane	10.571	97	5629	3.858	ug/l #	1
51) Ethyl methacrylate	10.982	69	1405	0.564	ug/l #	1
52) 1,3-Dichloropropane	11.206	76	4302	1.633	ug/l #	42
55) 2-Chloroethyl vinyl ether	9.741	63	1066	1.073	ug/l #	43
56) Bromoform	12.847	173	361	0.325	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	7028	3.536	ug/l #	82
59) 2-Hexanone	11.206	43	62590	41.682	ug/l #	1
72) 1,2,3-Trichloropropane	12.853	75	29664	16.092	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	29664	38.071	ug/l #	12

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

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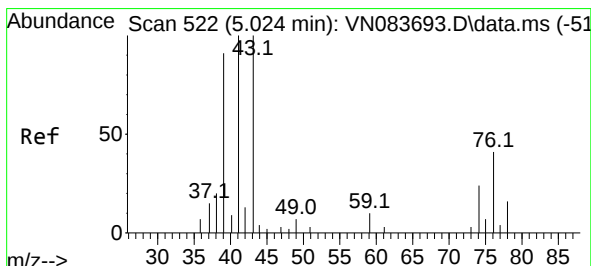
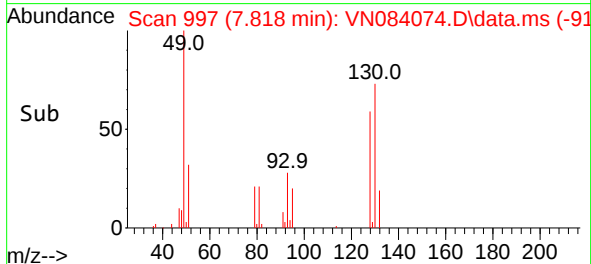
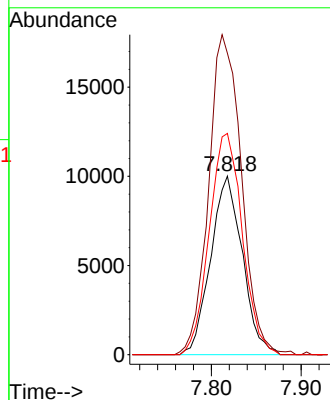
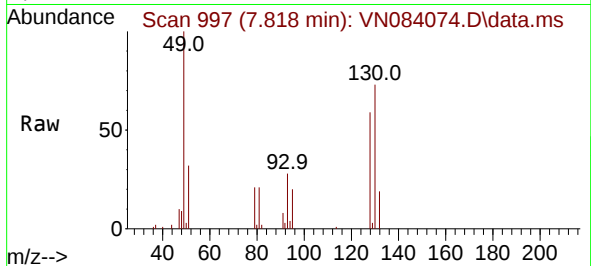




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN084074.D
Acq: 20 Sep 2024 16:45

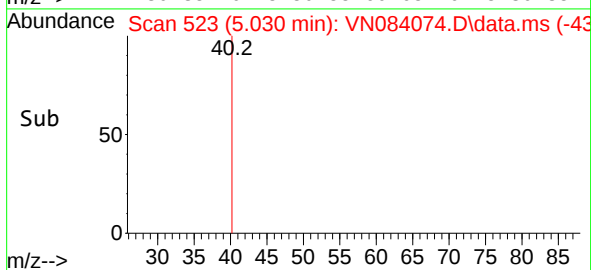
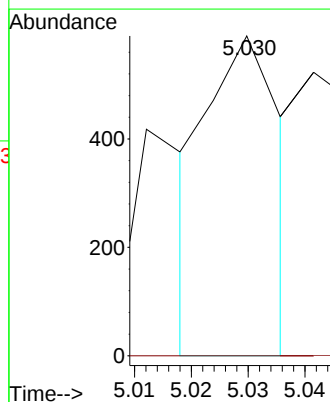
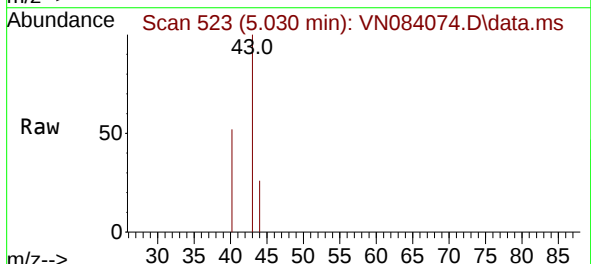
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#07

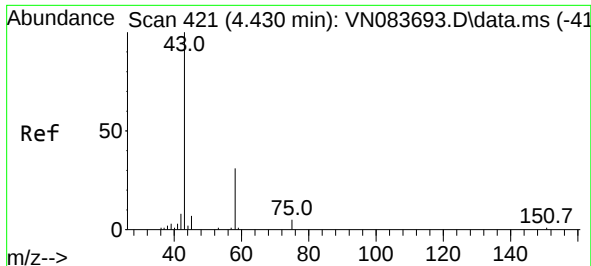
Tgt Ion:128 Resp: 24607
Ion Ratio Lower Upper
128 100
49 184.7 0.0 403.7
130 129.3 0.0 323.3



#12
Methyl Acetate
Concen: 0.287 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN084074.D
Acq: 20 Sep 2024 16:45

Tgt Ion: 43 Resp: 530
Ion Ratio Lower Upper
43 100
74 0.0 27.7 41.5#





#15

Acetone

Concen: 28.332 ug/l

RT: 4.430 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN084074.D

Acq: 20 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

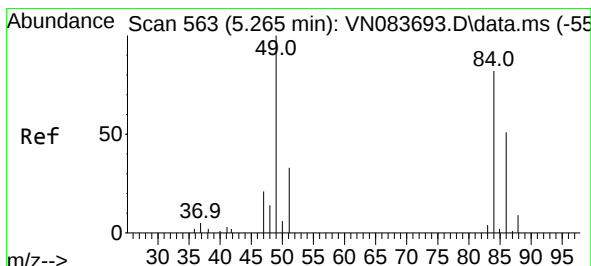
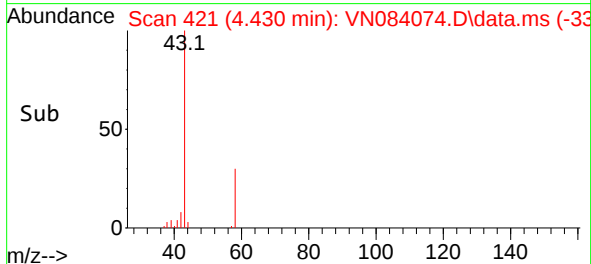
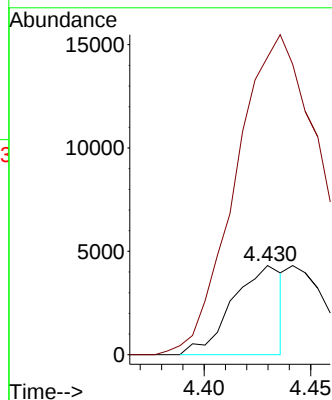
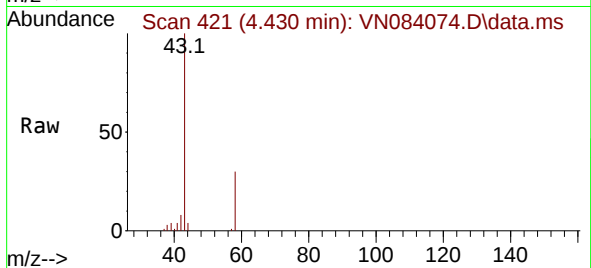
PB163512ZHE#07

Tgt Ion: 58 Resp: 7015

Ion Ratio Lower Upper

58 100

43 323.7 223.1 334.7



#18

Methylene Chloride

Concen: 1.665 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.006 min

Lab File: VN084074.D

Acq: 20 Sep 2024 16:45

Tgt Ion: 84 Resp: 2786

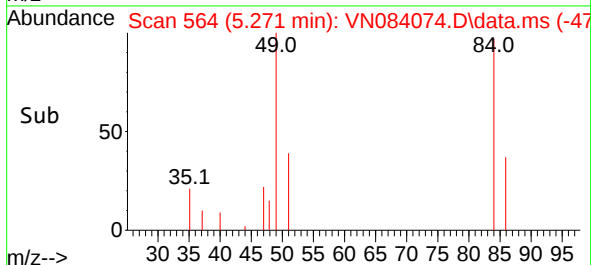
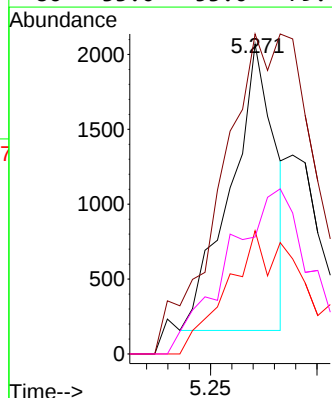
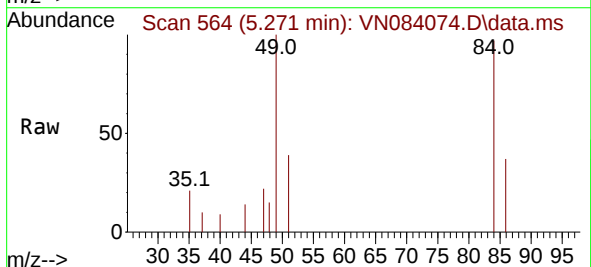
Ion Ratio Lower Upper

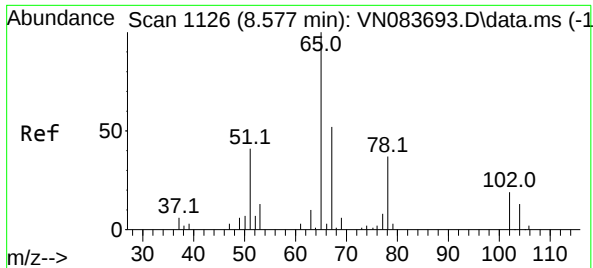
84 100

49 94.9 86.0 129.0

51 43.0 30.0 45.0

86 33.0 53.0 79.4#

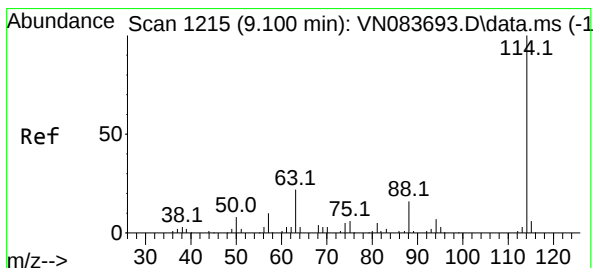
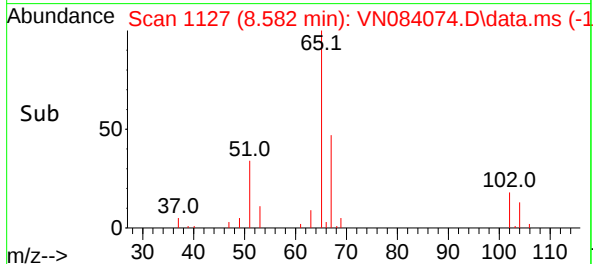
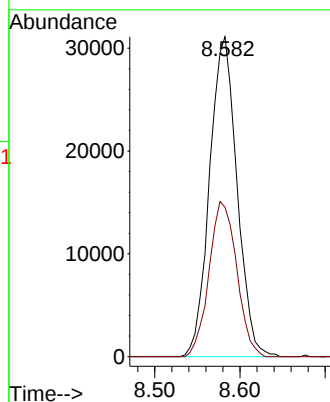
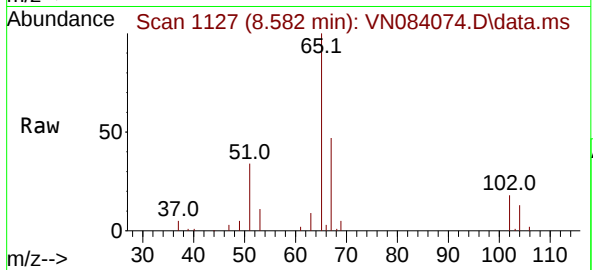




#27
1,2-Dichloroethane-d4
Concen: 30.902 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN084074.D
Acq: 20 Sep 2024 16:45

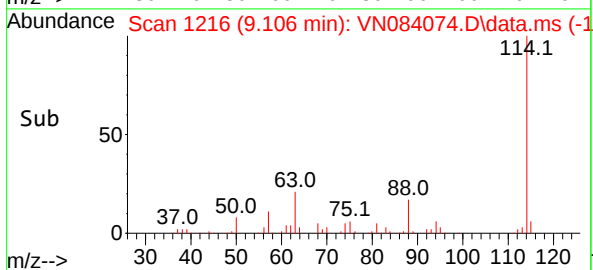
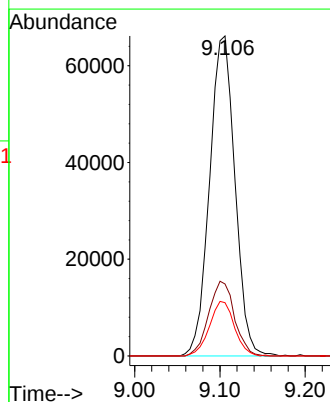
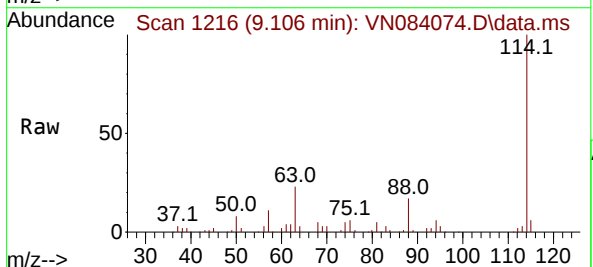
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#07

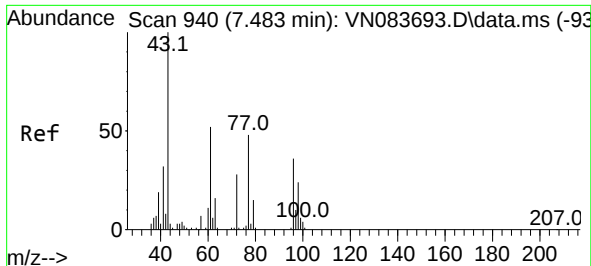
Tgt Ion: 65 Resp: 69507
Ion Ratio Lower Upper
65 100
67 48.9 43.2 64.8



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.006 min
Lab File: VN084074.D
Acq: 20 Sep 2024 16:45

Tgt Ion: 114 Resp: 136911
Ion Ratio Lower Upper
114 100
63 23.7 15.9 23.9
88 16.8 12.7 19.1

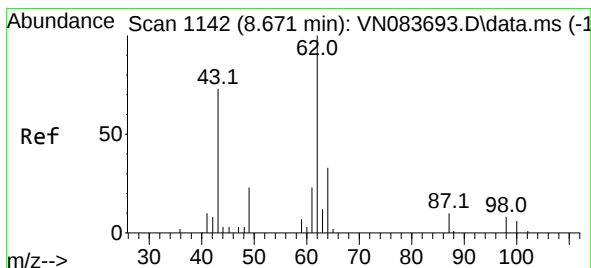
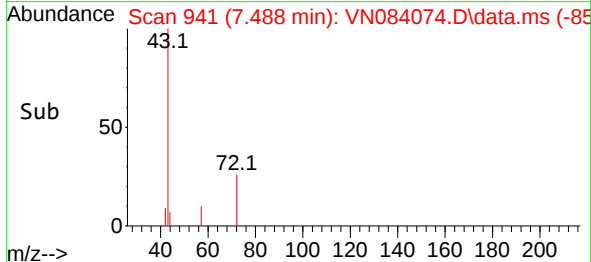
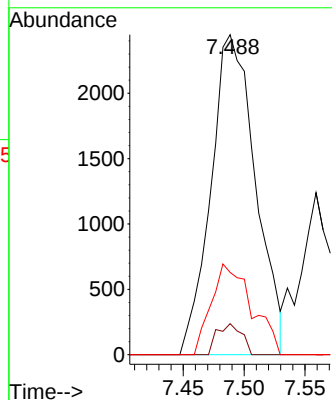
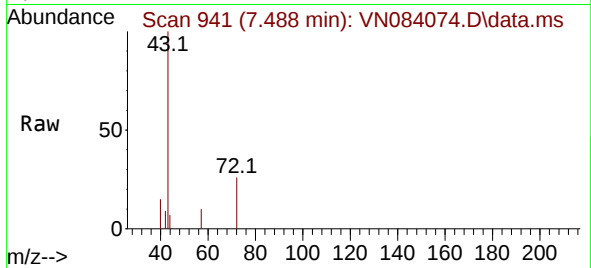




#30
2-Butanone
Concen: 6.099 ug/l
RT: 7.488 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN084074.D
Acq: 20 Sep 2024 16:45

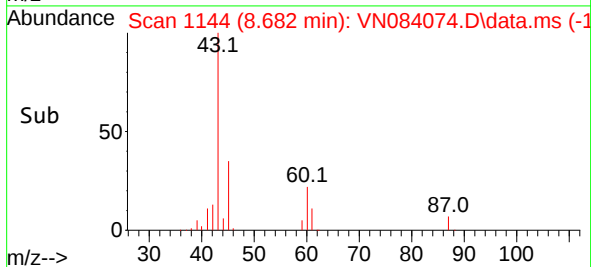
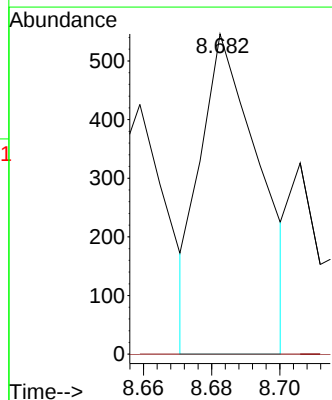
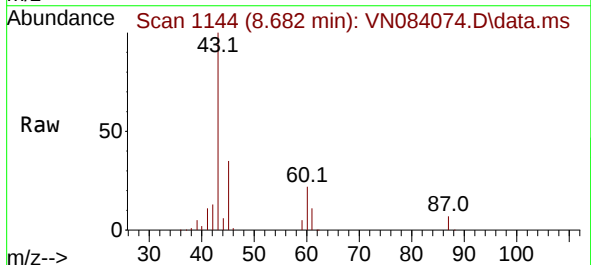
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#07

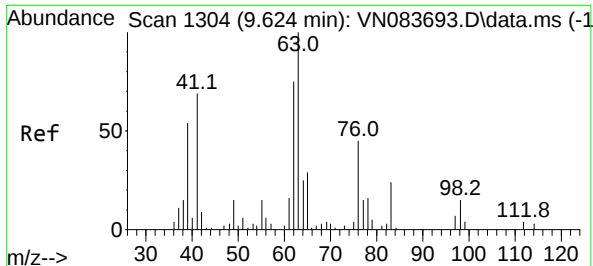
Tgt Ion: 43 Resp: 6243
Ion Ratio Lower Upper
43 100
57 5.3 6.7 10.1#
72 16.6 24.0 36.0#



#36
1,2-Dichloroethane
Concen: 0.267 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. 0.012 min
Lab File: VN084074.D
Acq: 20 Sep 2024 16:45

Tgt Ion: 62 Resp: 654
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.4#





#39

1,2-Dichloropropane

Concen: 0.680 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN084074.D

Acq: 20 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

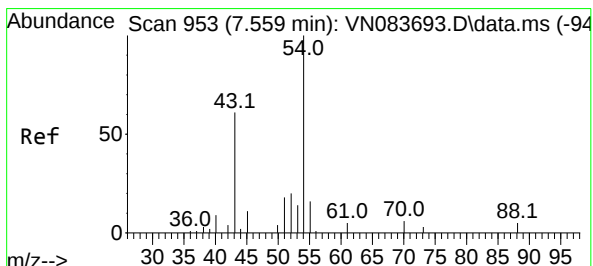
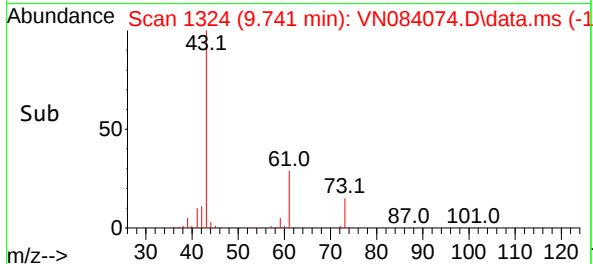
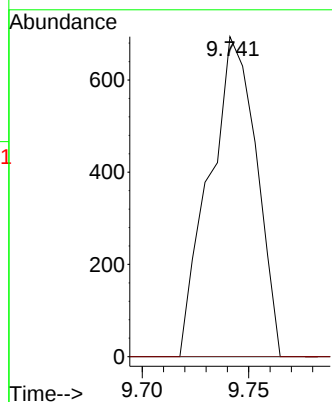
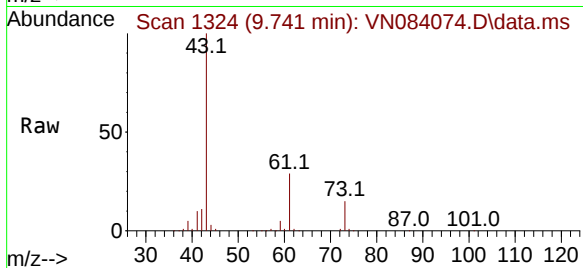
PB163512ZHE#07

Tgt Ion: 63 Resp: 1066

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#43

Ethyl Acetate

Concen: 0.778 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.000 min

Lab File: VN084074.D

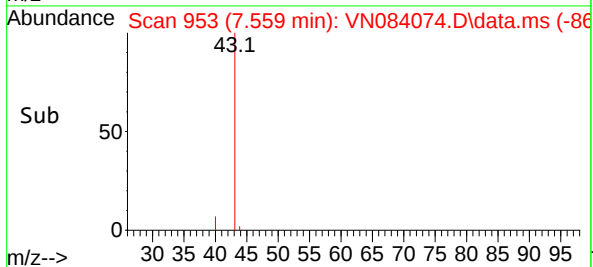
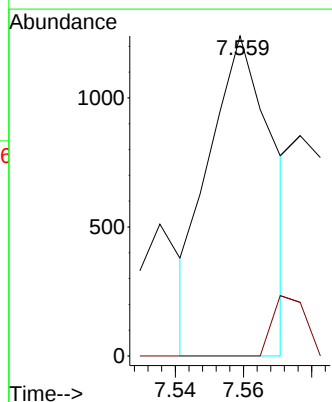
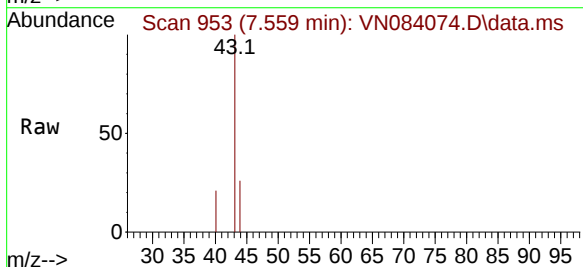
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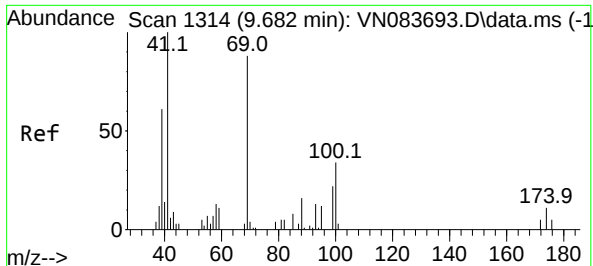
Tgt Ion: 43 Resp: 1604

Ion Ratio Lower Upper

43 100

45 9.7 10.6 15.8#

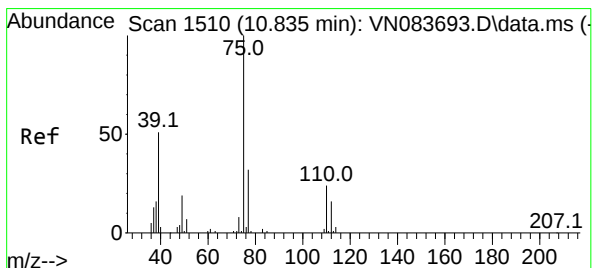
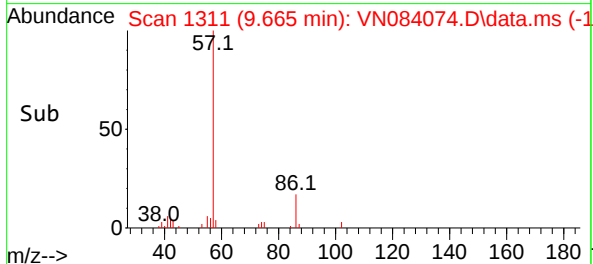
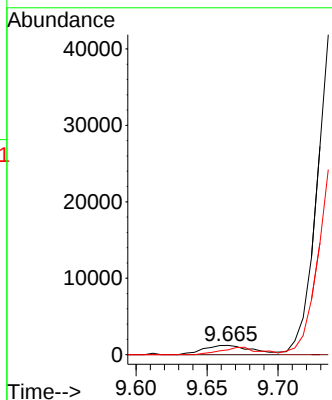
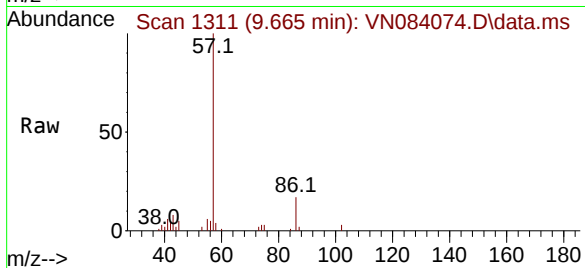




#46
Methyl methacrylate
Concen: 1.706 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN084074.D
Acq: 20 Sep 2024 16:45

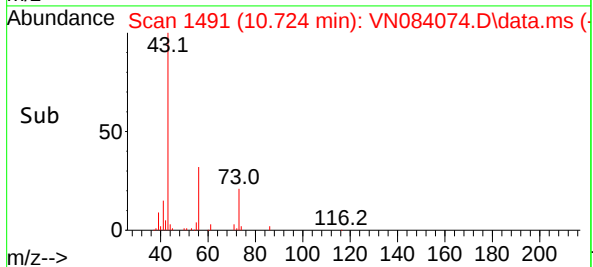
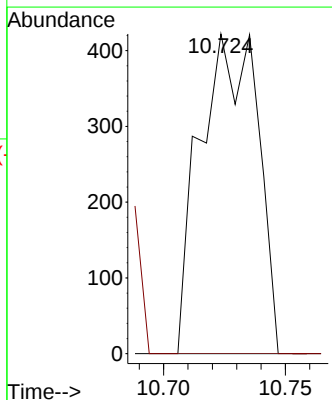
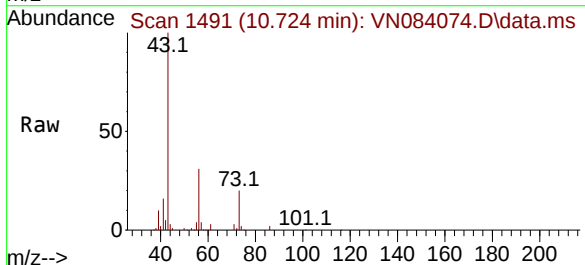
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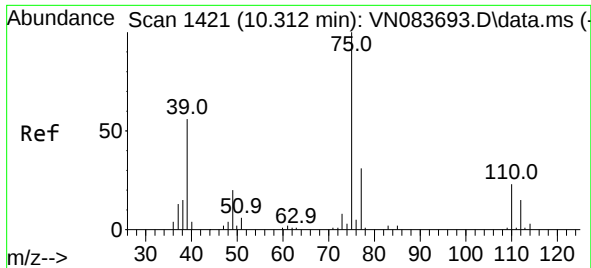
Tgt Ion: 41 Resp: 2943
Ion Ratio Lower Upper
41 100
69 0.0 51.1 153.3#
39 52.6 25.8 77.3



#48
t-1,3-Dichloropropene
Concen: 0.271 ug/l
RT: 10.724 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN084074.D
Acq: 20 Sep 2024 16:45

Tgt Ion: 75 Resp: 695
Ion Ratio Lower Upper
75 100
77 0.0 23.8 35.6#





#49

cis-1,3-Dichloropropene

Concen: 12.027 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.047 min

Lab File: VN084074.D

Acq: 20 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

PB163512ZHE#07

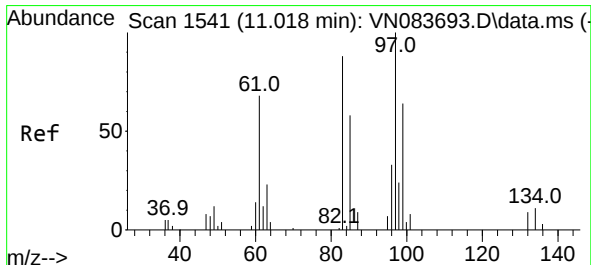
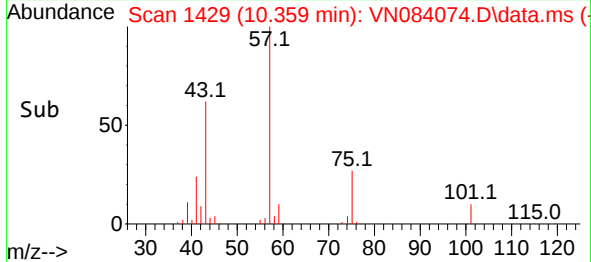
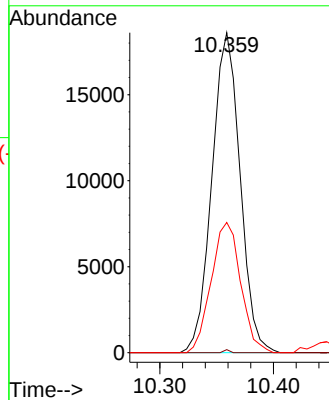
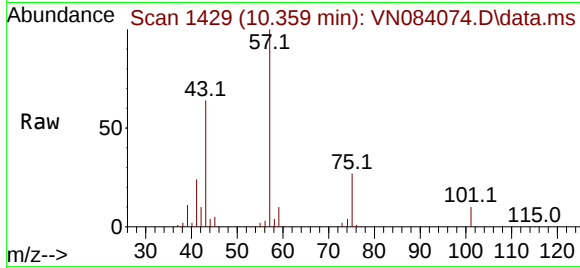
Tgt Ion: 75 Resp: 32079

Ion Ratio Lower Upper

75 100

77 1.0 24.9 37.3#

39 40.7 31.0 46.6



#50

1,1,2-Trichloroethane

Concen: 3.858 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.447 min

Lab File: VN084074.D

Acq: 20 Sep 2024 16:45

Tgt Ion: 97 Resp: 5629

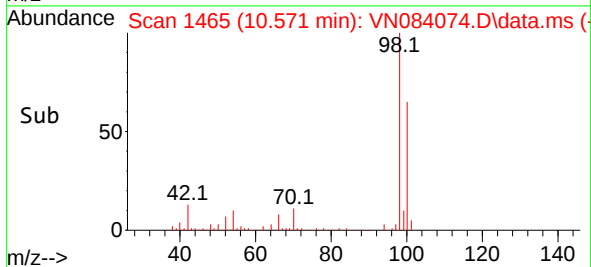
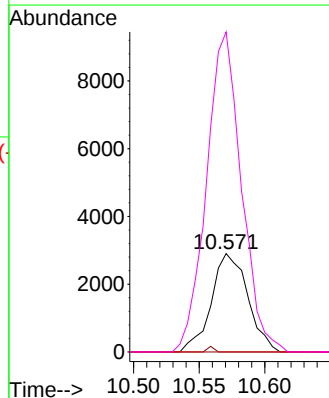
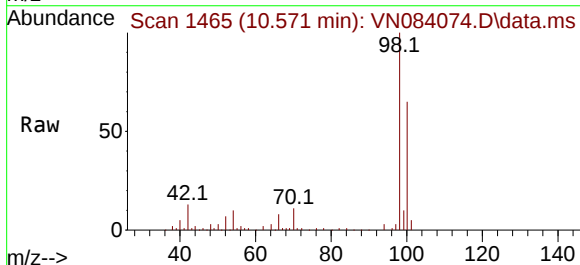
Ion Ratio Lower Upper

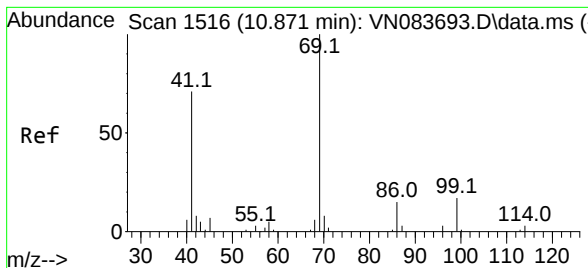
97 100

83 0.0 68.1 102.1#

85 0.0 41.8 62.6#

99 318.4 47.0 70.4#





#51

Ethyl methacrylate

Concen: 0.564 ug/l

RT: 10.982 min Scan# 1535

Delta R.T. 0.112 min

Lab File: VN084074.D

Acq: 20 Sep 2024 16:45

Instrument :

MSVOA_N

ClientSampleId :

PB163512ZHE#07

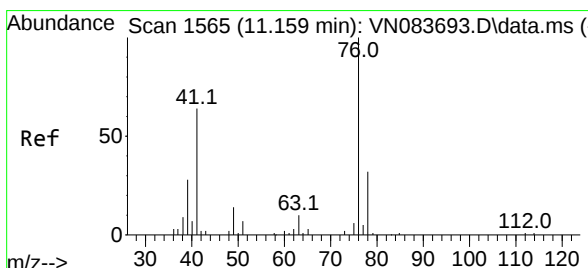
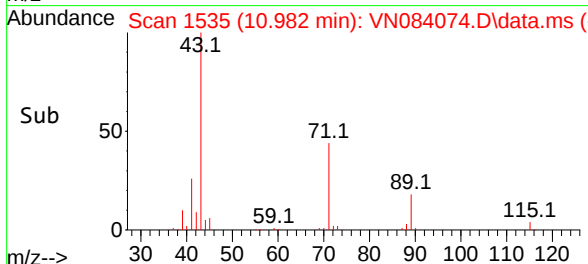
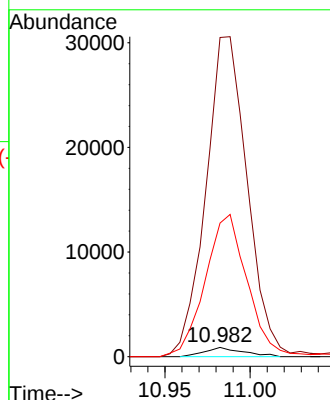
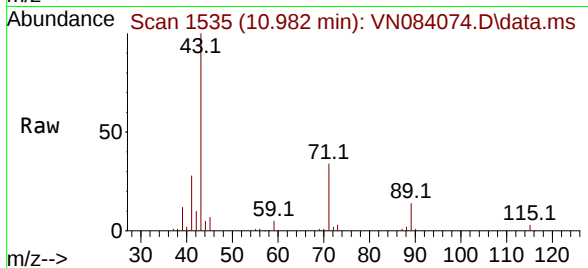
Tgt Ion: 69 Resp: 1405

Ion Ratio Lower Upper

69 100

41 3336.4 25.5 76.5#

39 1369.9 16.0 47.9#



#52

1,3-Dichloropropane

Concen: 1.633 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.047 min

Lab File: VN084074.D

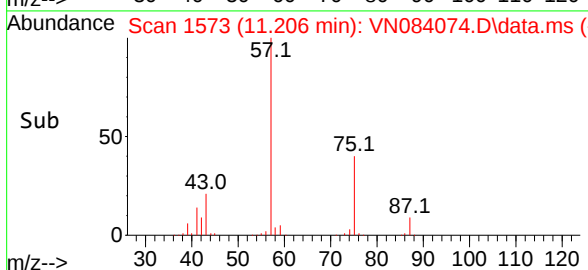
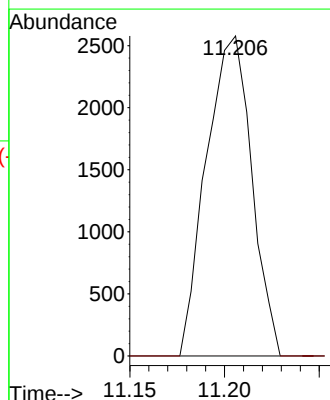
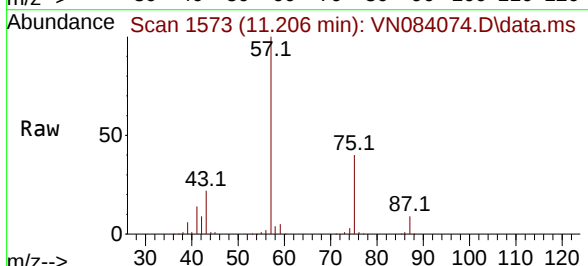
Acq: 20 Sep 2024 16:45

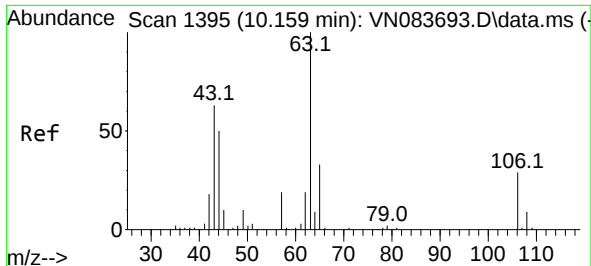
Tgt Ion: 76 Resp: 4302

Ion Ratio Lower Upper

76 100

78 0.0 0.0 65.8

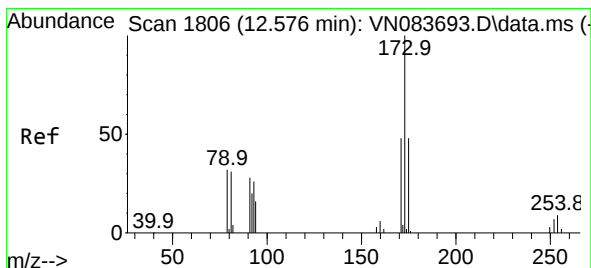
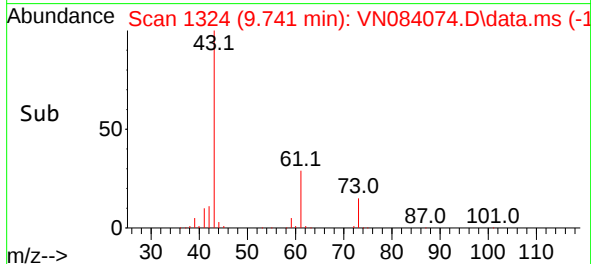
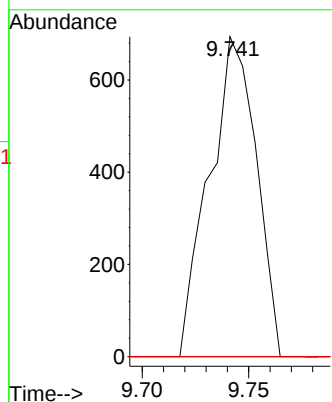
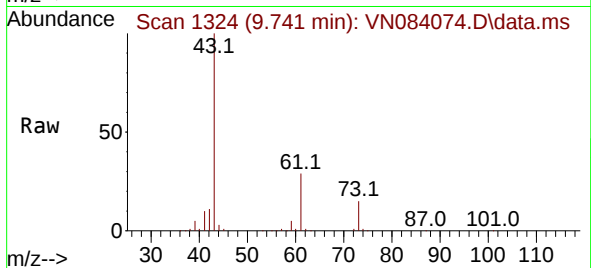




#55
2-Chloroethyl vinyl ether
Concen: 1.073 ug/l
RT: 9.741 min Scan# 11
Delta R.T. -0.418 min
Lab File: VN084074.D
Acq: 20 Sep 2024 16:45

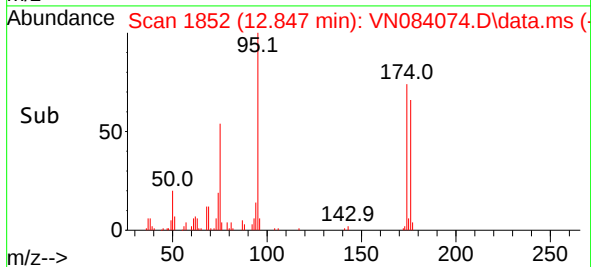
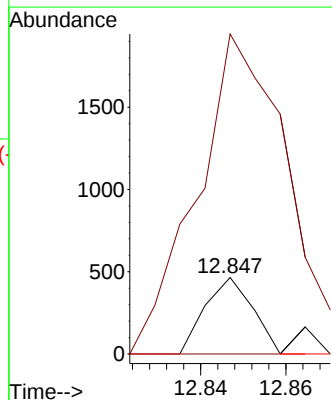
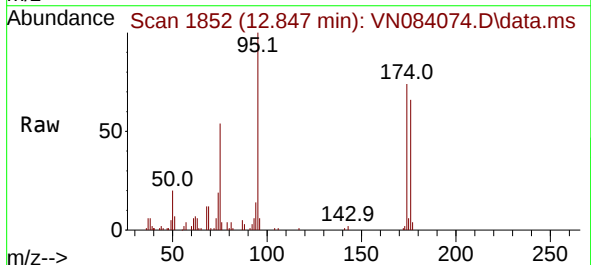
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#07

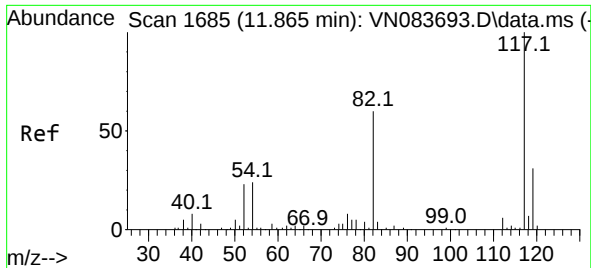
Tgt Ion: 63 Resp: 1066
Ion Ratio Lower Upper
63 100
65 0.0 26.2 39.2#
106 0.0 23.8 35.8#



#56
Bromoform
Concen: 0.325 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN084074.D
Acq: 20 Sep 2024 16:45

Tgt Ion: 173 Resp: 361
Ion Ratio Lower Upper
173 100
175 785.3 40.0 60.0#
254 0.0 8.3 12.5#

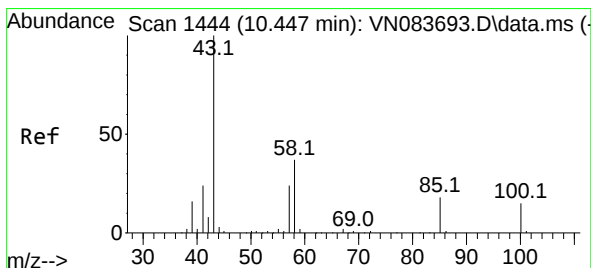
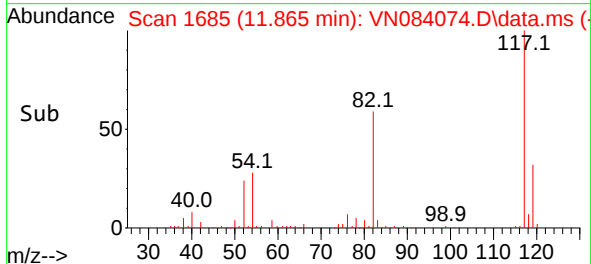
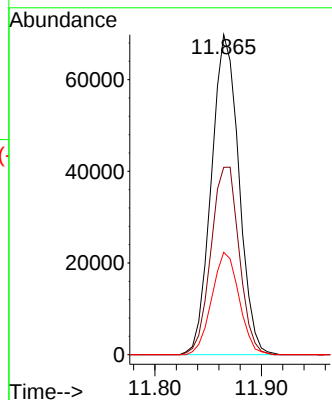
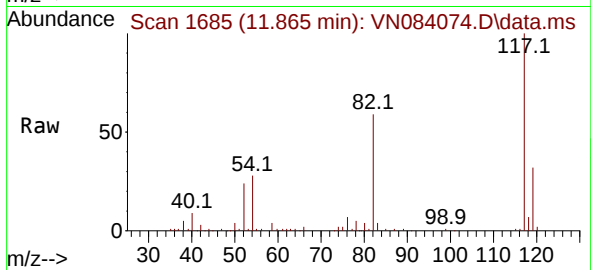




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN084074.D
Acq: 20 Sep 2024 16:45

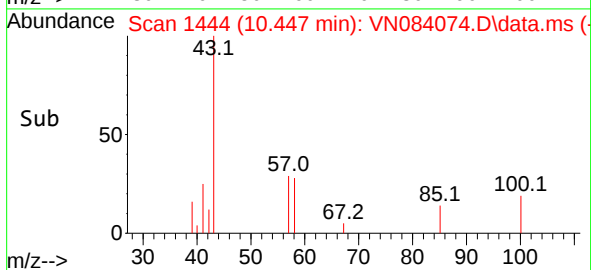
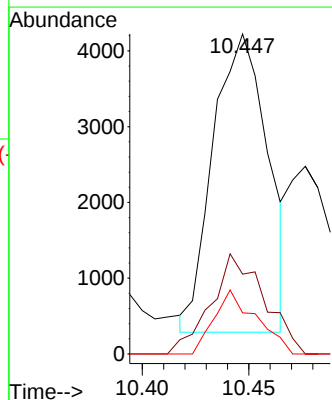
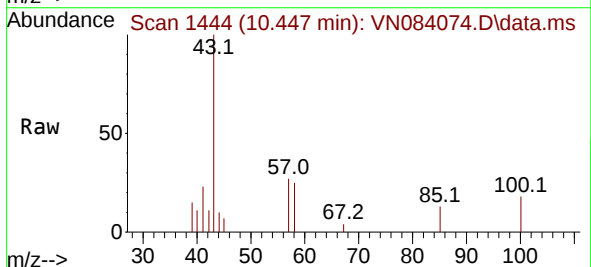
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#07

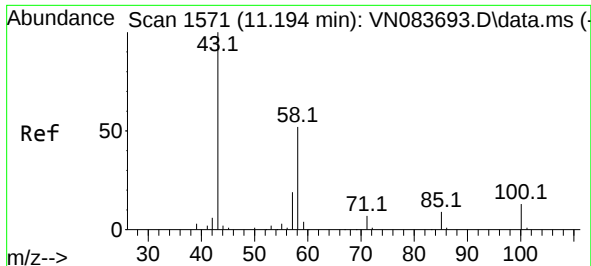
Tgt Ion:117 Resp: 125332
Ion Ratio Lower Upper
117 100
82 60.1 46.6 69.8
119 31.7 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 3.536 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN084074.D
Acq: 20 Sep 2024 16:45

Tgt Ion: 43 Resp: 7028
Ion Ratio Lower Upper
43 100
58 32.7 36.5 54.7#
85 16.5 19.5 29.3#

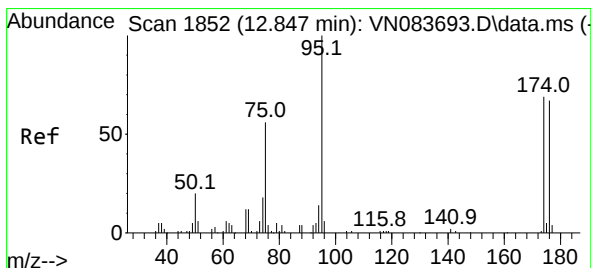
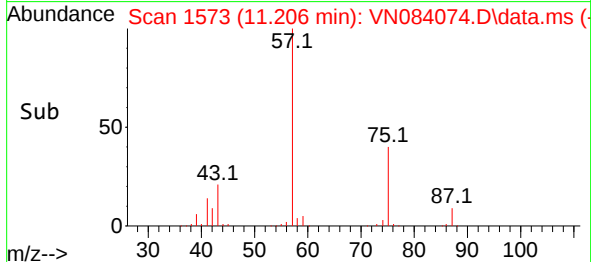
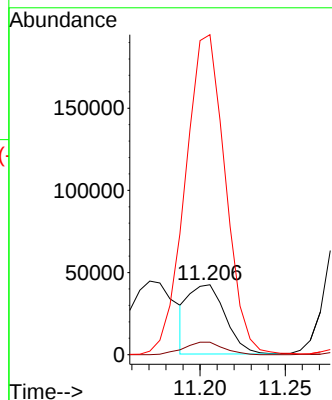
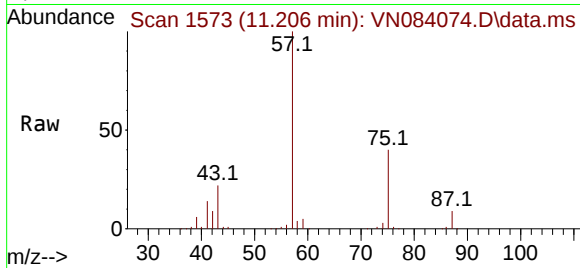




#59
2-Hexanone
Concen: 41.682 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.012 min
Lab File: VN084074.D
Acq: 20 Sep 2024 16:45

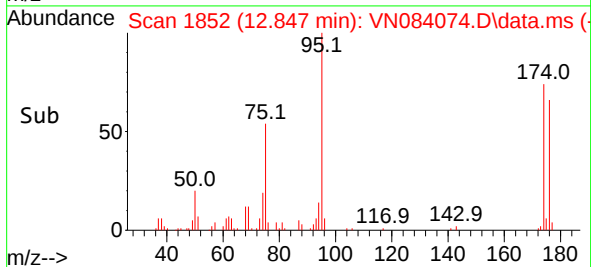
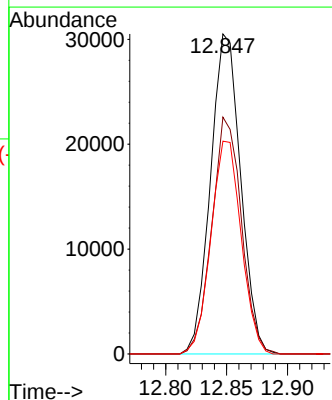
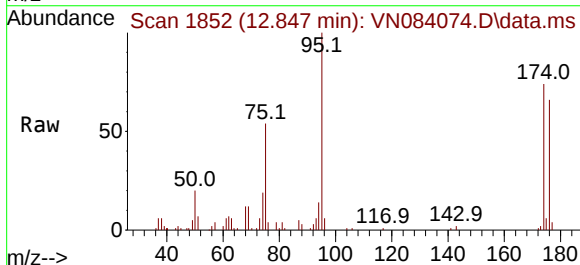
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#07

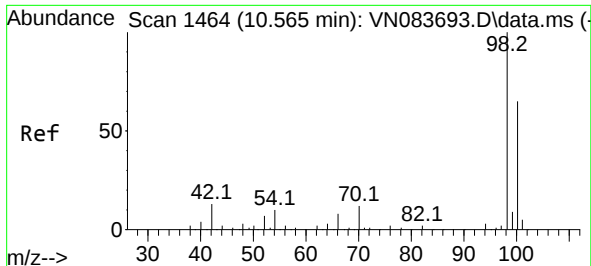
Tgt Ion: 43 Resp: 62590
Ion Ratio Lower Upper
43 100
58 19.6 50.4 75.6#
57 509.8 18.6 27.8#



#60
4-Bromofluorobenzene
Concen: 24.315 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084074.D
Acq: 20 Sep 2024 16:45

Tgt Ion: 95 Resp: 52523
Ion Ratio Lower Upper
95 100
174 72.8 60.5 90.7
176 66.9 57.8 86.6

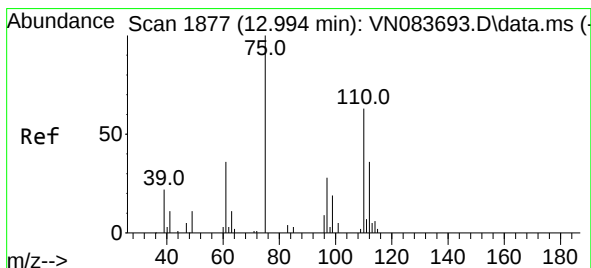
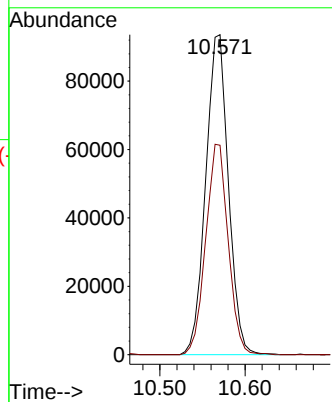
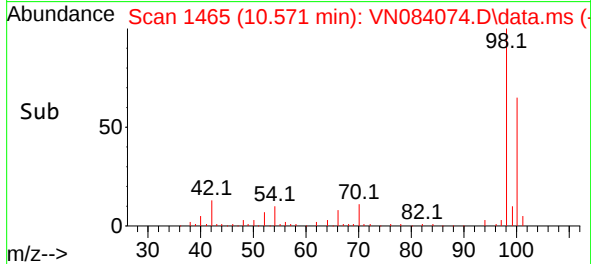
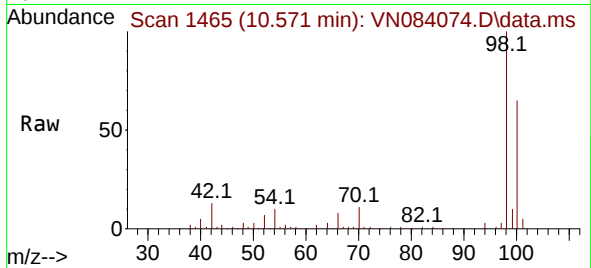




#63
Toluene-d8
Concen: 29.795 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN084074.D
Acq: 20 Sep 2024 16:45

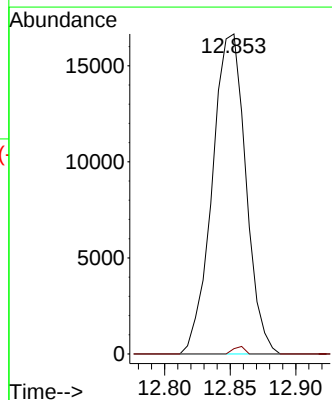
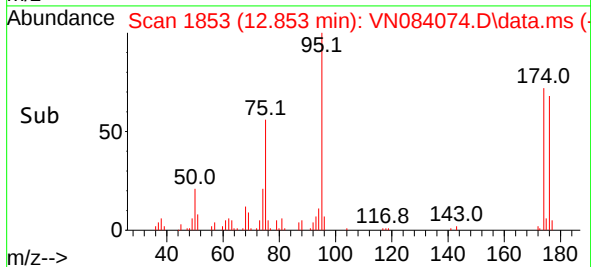
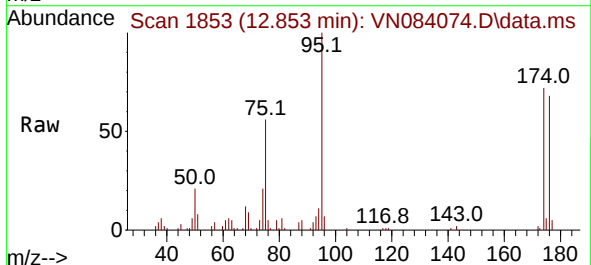
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#07

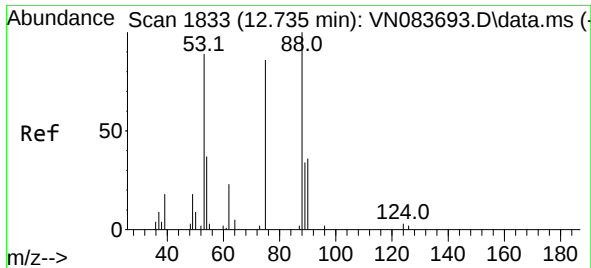
Tgt Ion: 98 Resp: 172913
Ion Ratio Lower Upper
98 100
100 65.0 52.7 79.1



#72
1,2,3-Trichloropropane
Concen: 16.092 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN084074.D
Acq: 20 Sep 2024 16:45

Tgt Ion: 75 Resp: 29664
Ion Ratio Lower Upper
75 100
77 0.8 0.0 367.6





#77
 t-1,4-Dichloro-2-butene
 Concen: 38.071 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.118 min
 Lab File: VN084074.D
 Acq: 20 Sep 2024 16:45

Instrument :
 MSVOA_N
 ClientSampleId :
 PB163512ZHE#07

Tgt Ion: 75 Resp: 29664
 Ion Ratio Lower Upper
 75 100
 53 0.0 45.9 137.7#
 89 0.0 25.9 77.7#

