

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092024\
 Data File : VN084075.D
 Acq On : 20 Sep 2024 17:09
 Operator : JC\MD
 Sample : PB163512ZHE#08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB163512ZHE#08

Quant Time: Sep 23 01:06:10 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	25469	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	136333	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	124933	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	68705	29.512	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.367%
60) 4-Bromofluorobenzene	12.847	95	53820	24.995	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.333%
63) Toluene-d8	10.565	98	171070	29.572	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.567%
Target Compounds						
					Qvalue	
12) Methyl Acetate	5.030	43	1013	0.531	ug/l #	40
15) Acetone	4.436	58	15230	59.429	ug/l	70
18) Methylene Chloride	5.283	84	6916	3.993	ug/l #	85
23) tert-Butyl Alcohol	5.530	59	126	0.444	ug/l #	100
30) 2-Butanone	7.488	43	7206	7.069	ug/l #	76
35) Methacrylonitrile	7.853	41	297	0.259	ug/l #	22
39) 1,2-Dichloropropane	9.747	63	1190	0.762	ug/l #	43
43) Ethyl Acetate	7.559	43	2843	1.386	ug/l #	79
44) Isopropyl Acetate	8.688	43	176064	49.614	ug/l #	69
46) Methyl methacrylate	9.665	41	2931	1.706	ug/l #	30
47) n-amyl Acetate	12.488	43	1177	0.374	ug/l #	45
48) t-1,3-Dichloropropene	10.729	75	541	0.212	ug/l #	45
49) cis-1,3-Dichloropropene	10.359	75	32385	12.193	ug/l #	73
50) 1,1,2-Trichloroethane	10.576	97	5852	4.028	ug/l #	1
51) Ethyl methacrylate	10.988	69	1690	0.681	ug/l #	1
52) 1,3-Dichloropropane	11.206	76	4443	1.693	ug/l #	42
58) 4-Methyl-2-Pentanone	10.447	43	10546	5.324	ug/l #	68
59) 2-Hexanone	11.200	43	63732	42.578	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	30116	16.389	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	30116	38.775	ug/l #	12

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

Quant Time: Sep 23 01:06:10 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

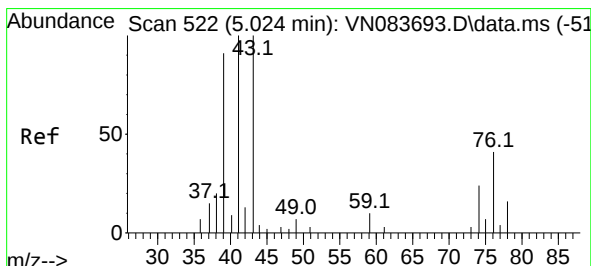
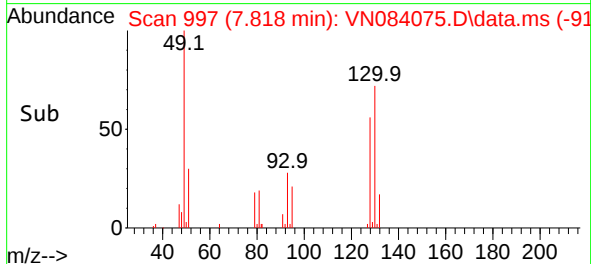
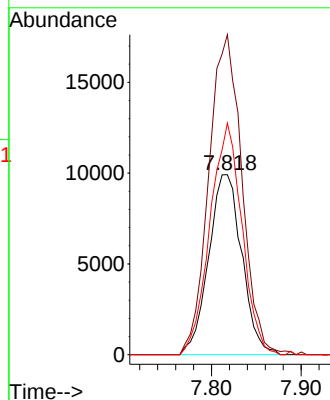
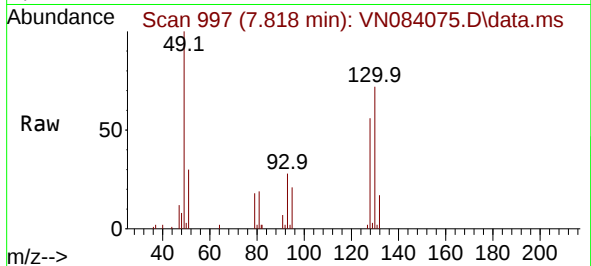




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN084075.D
Acq: 20 Sep 2024 17:09

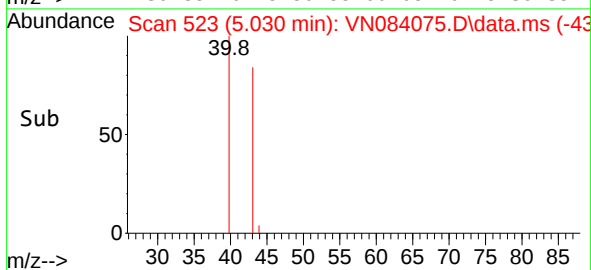
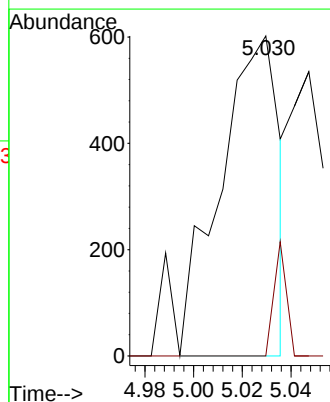
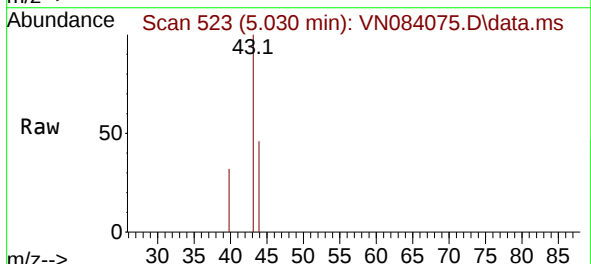
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#08

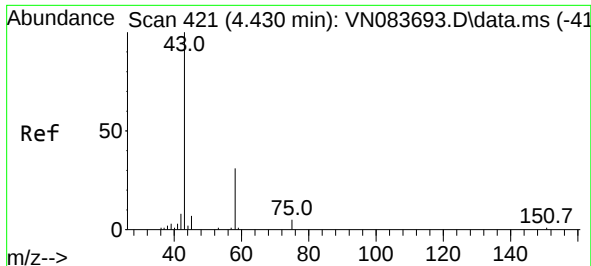
Tgt Ion:128 Resp: 25469
Ion Ratio Lower Upper
128 100
49 177.0 0.0 403.7
130 123.9 0.0 323.3



#12
Methyl Acetate
Concen: 0.531 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN084075.D
Acq: 20 Sep 2024 17:09

Tgt Ion: 43 Resp: 1013
Ion Ratio Lower Upper
43 100
74 0.0 27.7 41.5#





#15

Acetone

Concen: 59.429 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN084075.D

Acq: 20 Sep 2024 17:09

Instrument :

MSVOA_N

ClientSampleId :

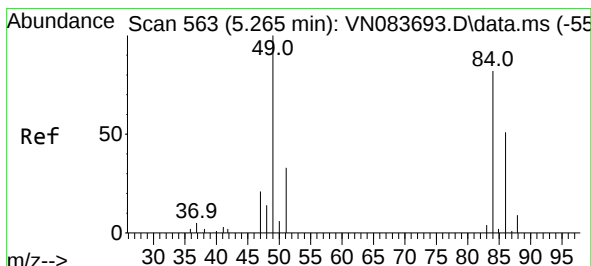
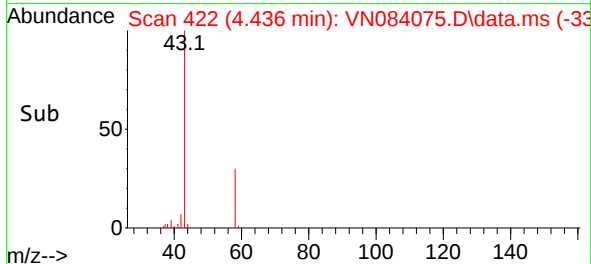
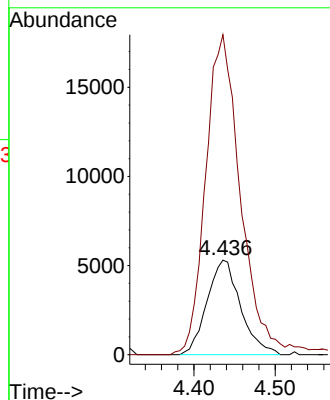
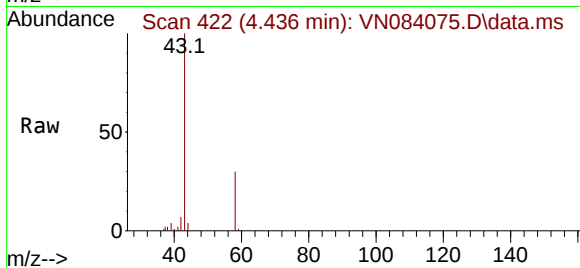
PB163512ZHE#08

Tgt Ion: 58 Resp: 15230

Ion Ratio Lower Upper

58 100

43 334.4 223.1 334.7



#18

Methylene Chloride

Concen: 3.993 ug/l

RT: 5.283 min Scan# 566

Delta R.T. 0.018 min

Lab File: VN084075.D

Acq: 20 Sep 2024 17:09

Tgt Ion: 84 Resp: 6916

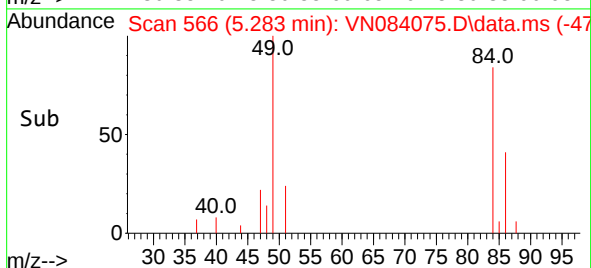
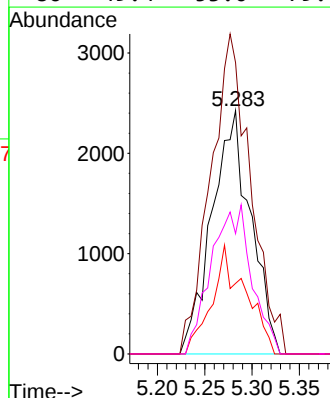
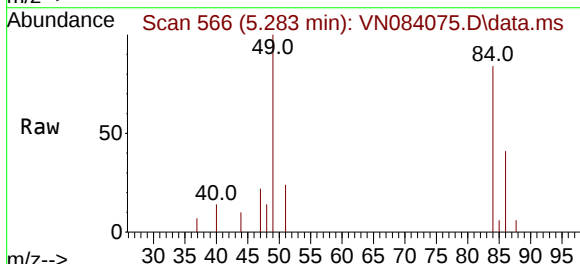
Ion Ratio Lower Upper

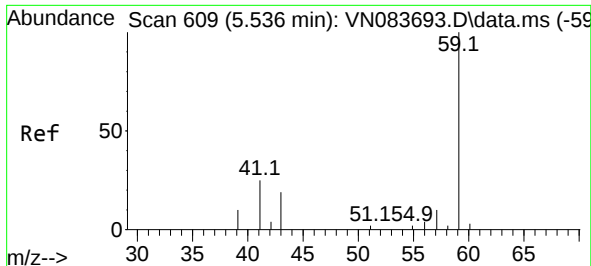
84 100

49 119.7 86.0 129.0

51 29.0 30.0 45.0#

86 49.4 53.0 79.4#

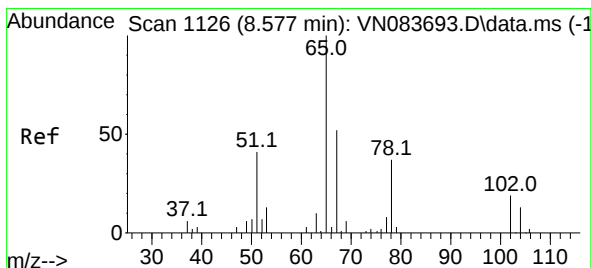
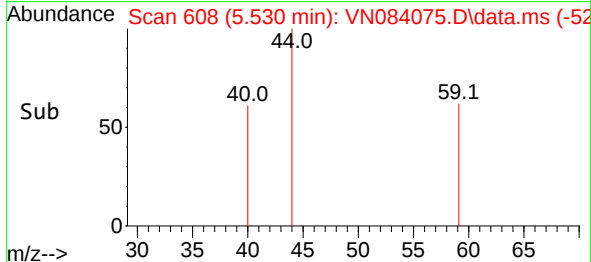
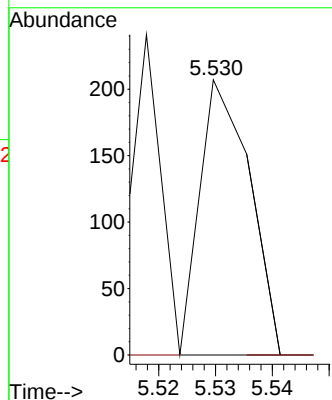
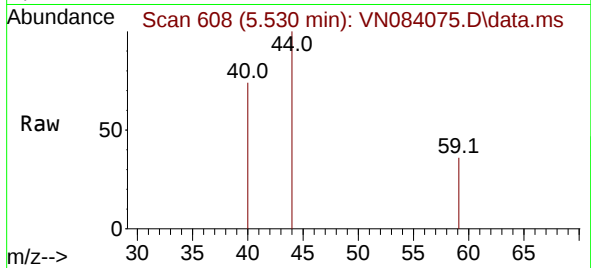




#23
tert-Butyl Alcohol
Concen: 0.444 ug/l
RT: 5.530 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN084075.D
Acq: 20 Sep 2024 17:09

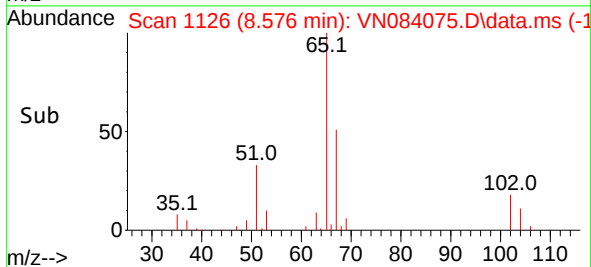
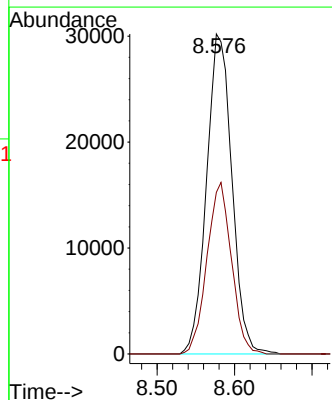
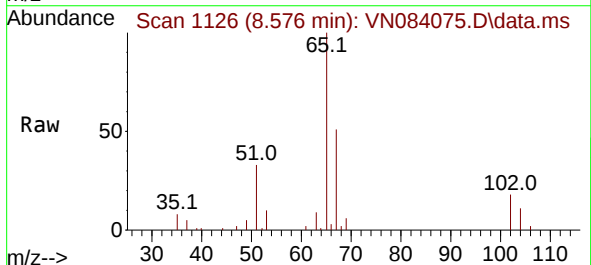
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#08

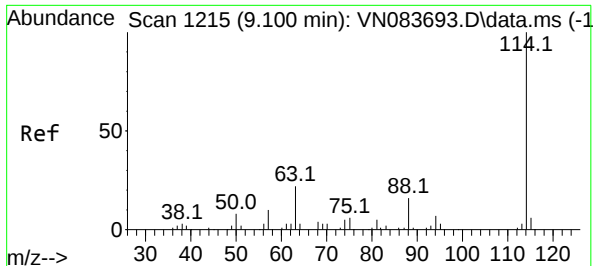
Tgt Ion: 59 Resp: 126
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 29.512 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084075.D
Acq: 20 Sep 2024 17:09

Tgt Ion: 65 Resp: 68705
Ion Ratio Lower Upper
65 100
67 51.9 43.2 64.8

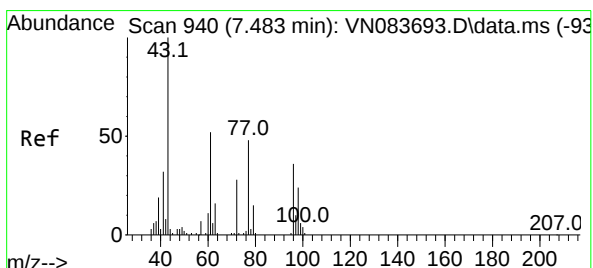
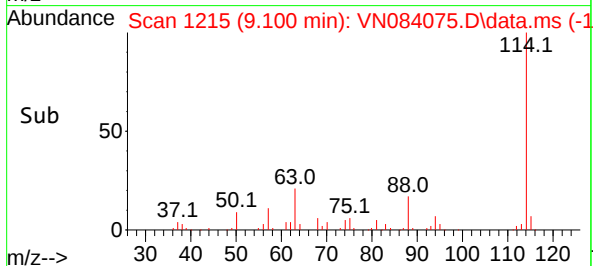
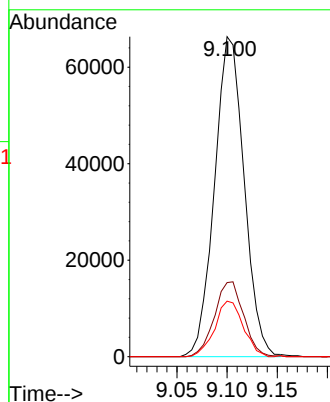
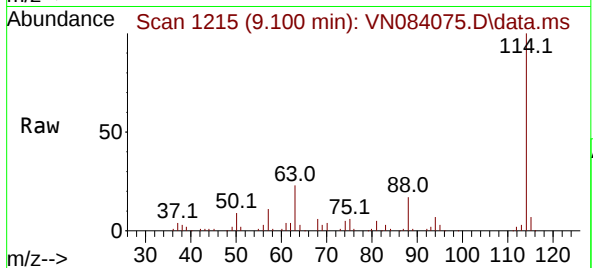




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084075.D
Acq: 20 Sep 2024 17:09

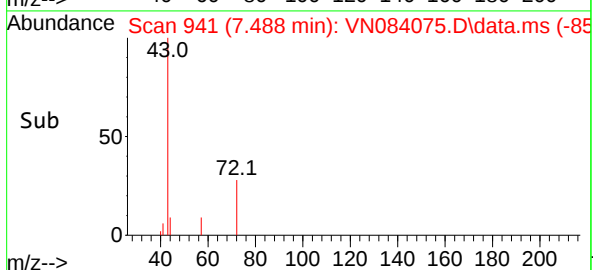
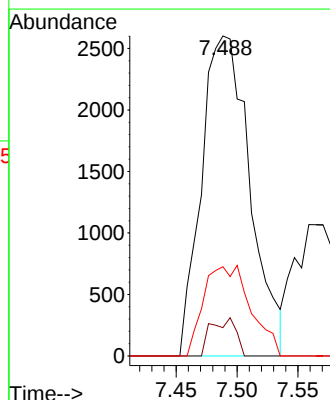
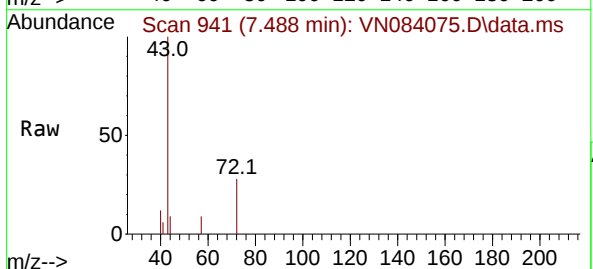
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#08

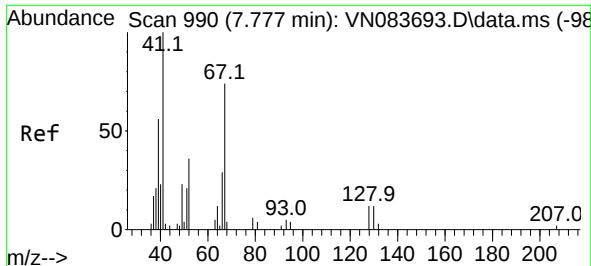
Tgt Ion:114 Resp: 136333
Ion Ratio Lower Upper
114 100
63 23.0 15.9 23.9
88 16.7 12.7 19.1



#30
2-Butanone
Concen: 7.069 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084075.D
Acq: 20 Sep 2024 17:09

Tgt Ion: 43 Resp: 7206
Ion Ratio Lower Upper
43 100
57 2.5 6.7 10.1#
72 16.2 24.0 36.0#

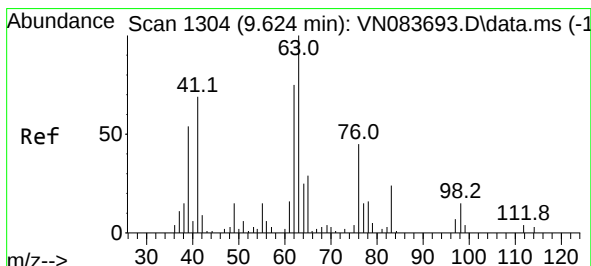
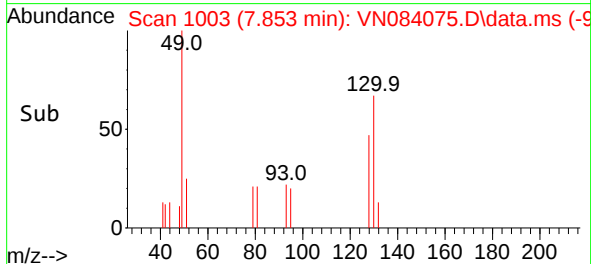
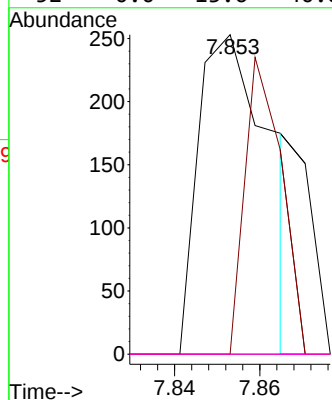
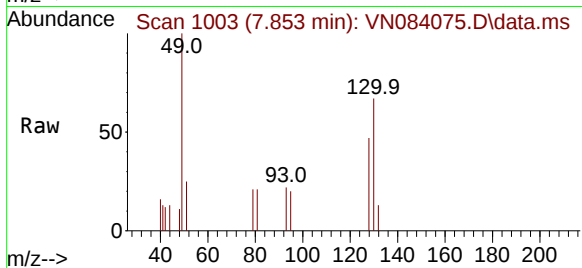




#35
Methacrylonitrile
Concen: 0.259 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.076 min
Lab File: VN084075.D
Acq: 20 Sep 2024 17:09

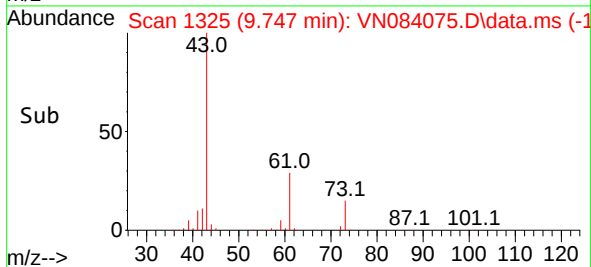
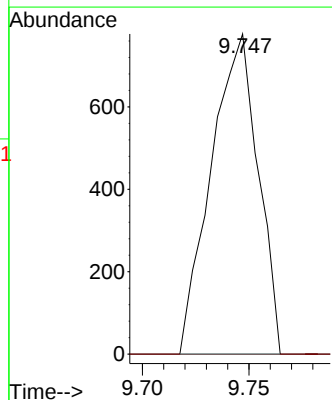
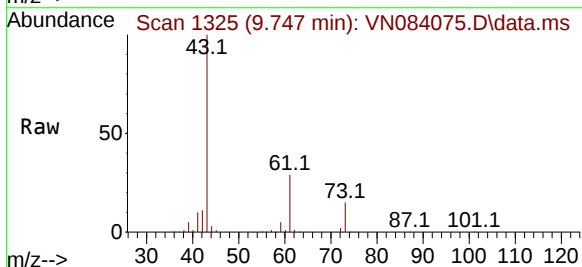
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#08

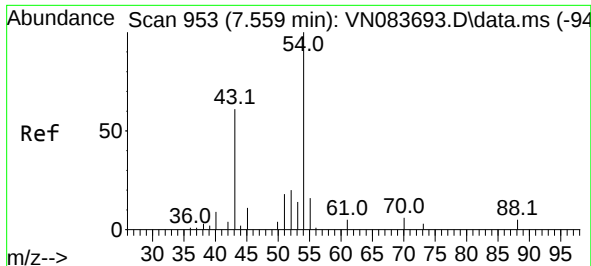
Tgt Ion: 41	Resp:	297
Ion	Ratio	Lower Upper
41	100	
39	0.0	25.3 75.9#
67	0.0	38.7 116.1#
52	0.0	13.6 40.8#



#39
1,2-Dichloropropane
Concen: 0.762 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.123 min
Lab File: VN084075.D
Acq: 20 Sep 2024 17:09

Tgt Ion: 63	Resp:	1190
Ion	Ratio	Lower Upper
63	100	
65	0.0	25.0 37.4#





#43

Ethyl Acetate

Concen: 1.386 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN084075.D

Acq: 20 Sep 2024 17:09

Instrument :

MSVOA_N

ClientSampleId :

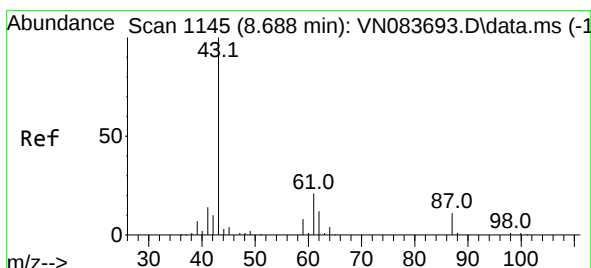
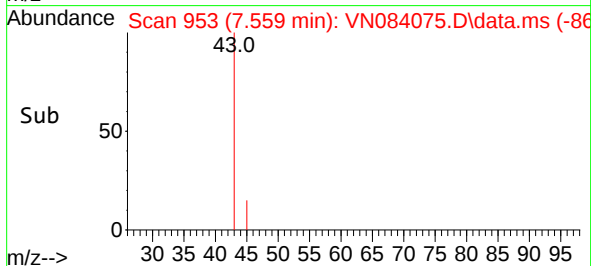
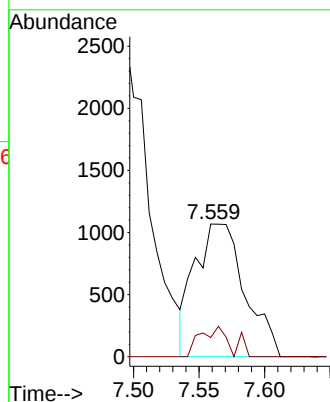
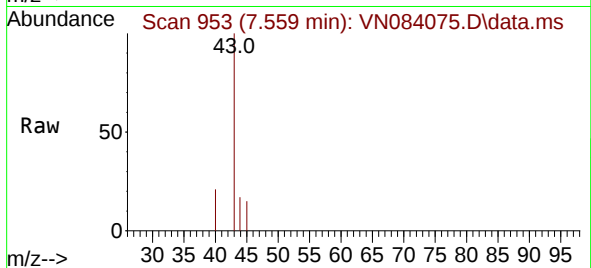
PB163512ZHE#08

Tgt Ion: 43 Resp: 2843

Ion Ratio Lower Upper

43 100

45 5.0 10.6 15.8#



#44

Isopropyl Acetate

Concen: 49.614 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN084075.D

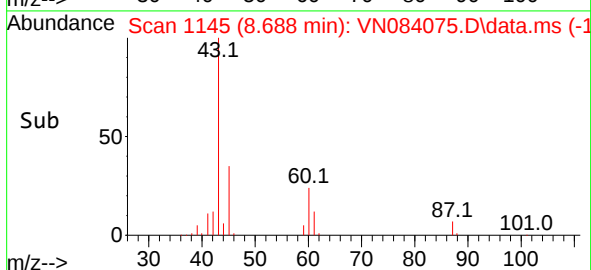
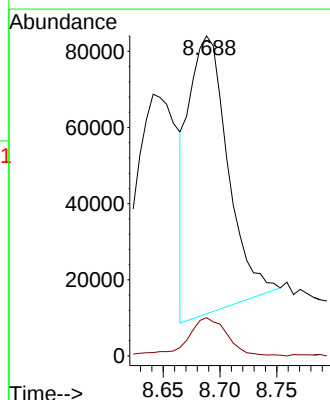
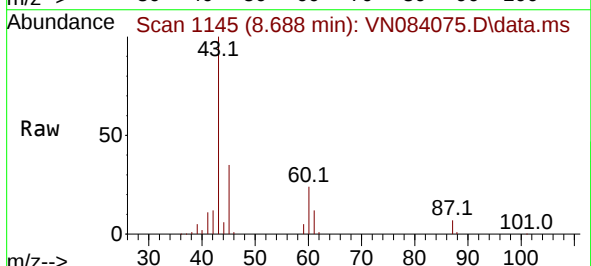
Acq: 20 Sep 2024 17:09

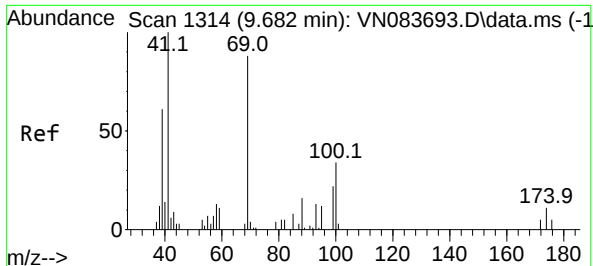
Tgt Ion: 43 Resp: 176064

Ion Ratio Lower Upper

43 100

61 14.2 25.0 37.4#

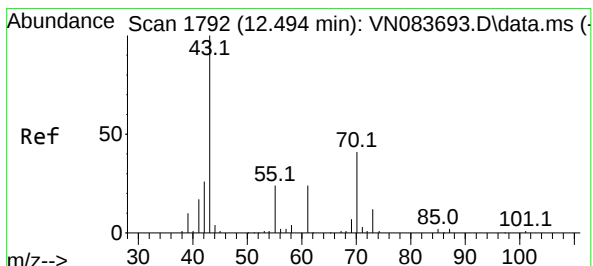
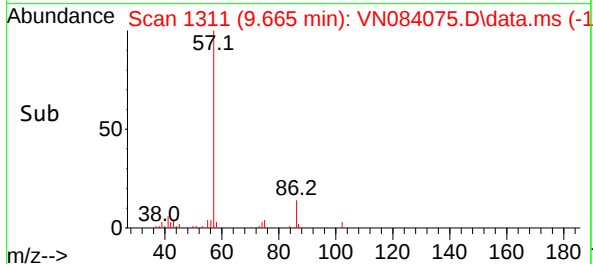
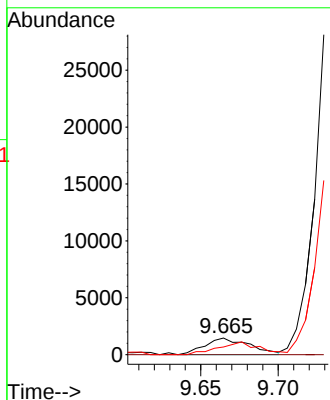
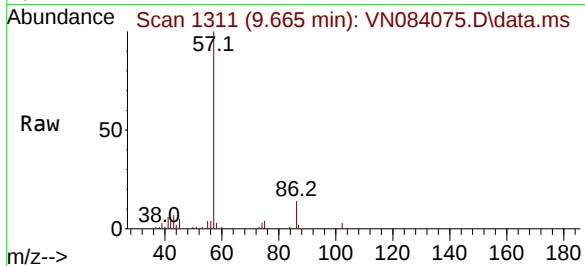




#46
Methyl methacrylate
Concen: 1.706 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN084075.D
Acq: 20 Sep 2024 17:09

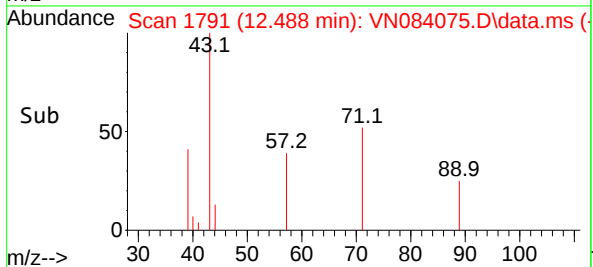
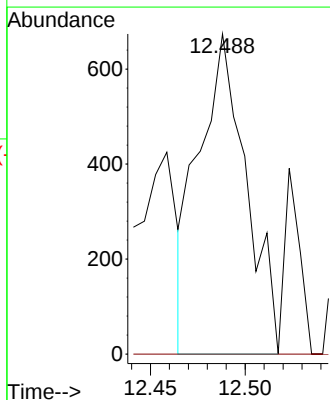
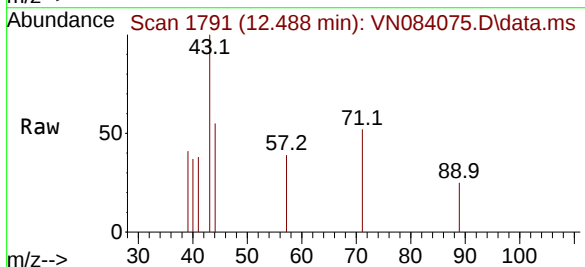
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#08

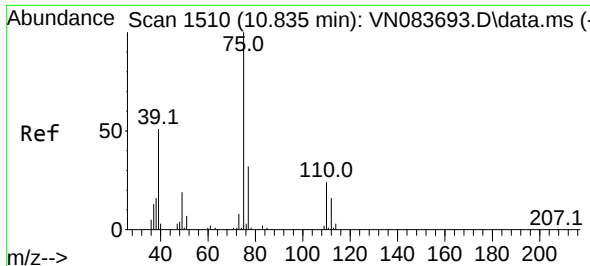
Tgt Ion: 41 Resp: 2931
Ion Ratio Lower Upper
41 100
69 0.0 51.1 153.3#
39 45.9 25.8 77.3



#47
n-amy1 Acetate
Concen: 0.374 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.006 min
Lab File: VN084075.D
Acq: 20 Sep 2024 17:09

Tgt Ion: 43 Resp: 1177
Ion Ratio Lower Upper
43 100
55 0.0 23.4 35.2#

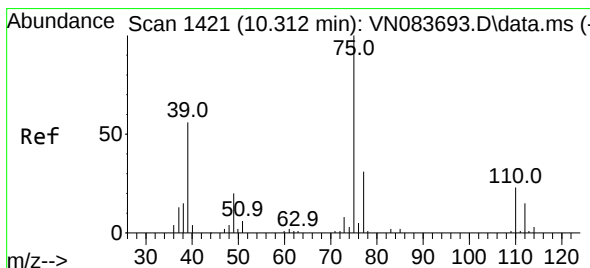
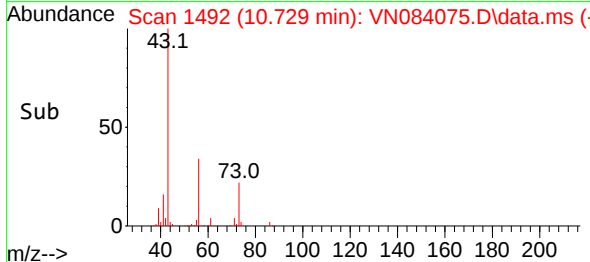
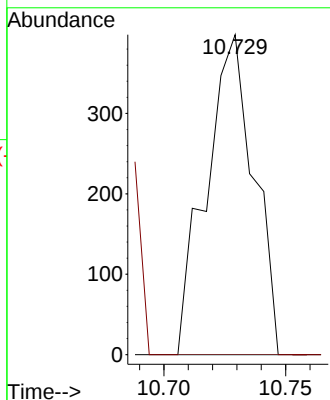
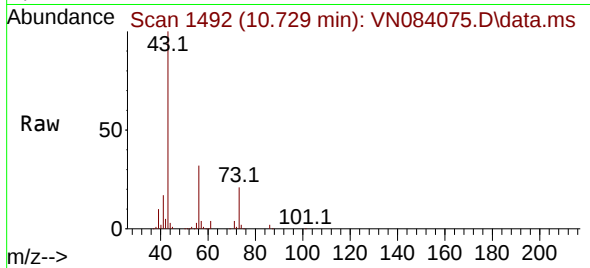




#48
t-1,3-Dichloropropene
Concen: 0.212 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN084075.D
Acq: 20 Sep 2024 17:09

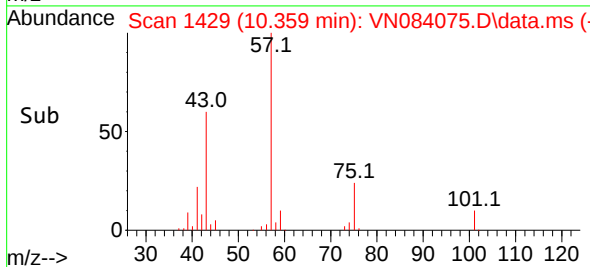
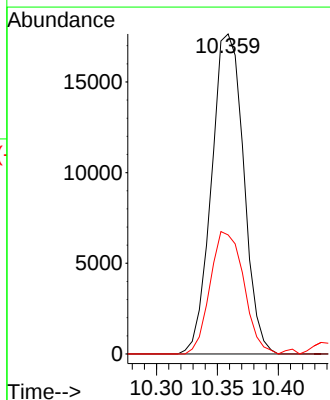
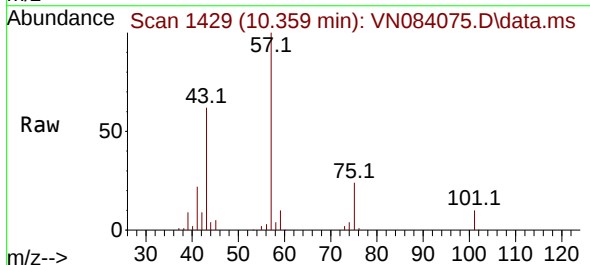
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#08

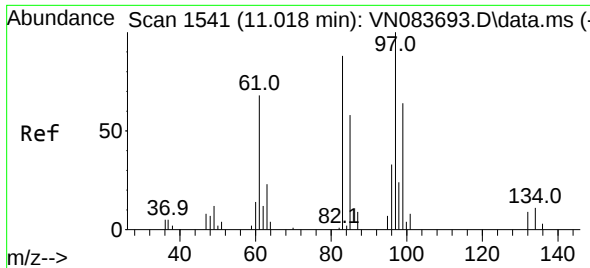
Tgt Ion: 75 Resp: 541
Ion Ratio Lower Upper
75 100
77 0.0 23.8 35.6#



#49
cis-1,3-Dichloropropene
Concen: 12.193 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN084075.D
Acq: 20 Sep 2024 17:09

Tgt Ion: 75 Resp: 32385
Ion Ratio Lower Upper
75 100
77 0.0 24.9 37.3#
39 37.2 31.0 46.6

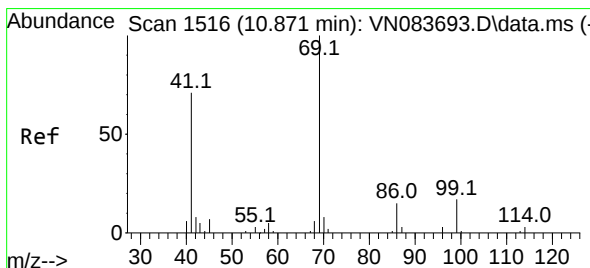
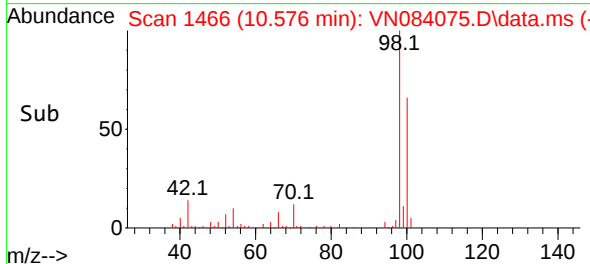
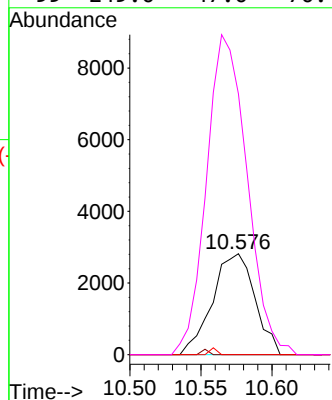
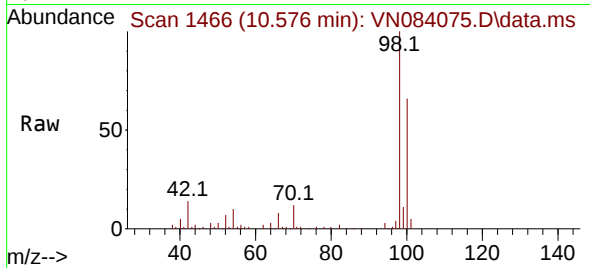




#50
1,1,2-Trichloroethane
Concen: 4.028 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. -0.441 min
Lab File: VN084075.D
Acq: 20 Sep 2024 17:09

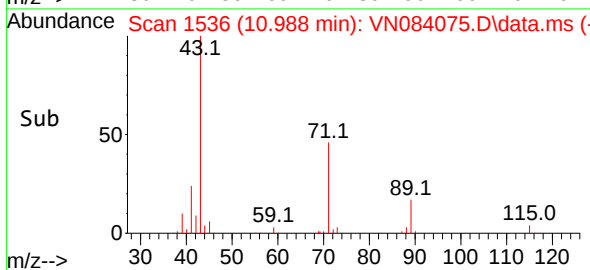
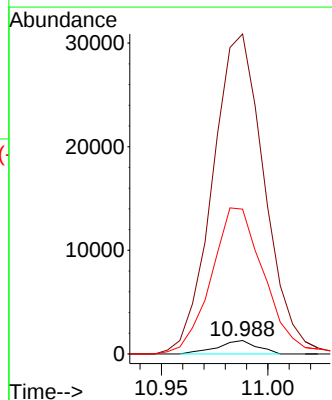
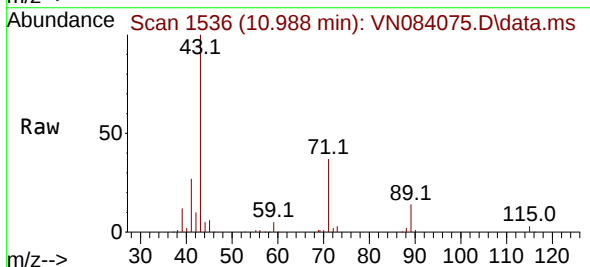
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#08

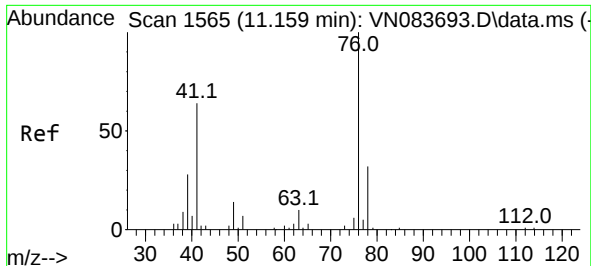
Tgt Ion: 97 Resp: 5852
Ion Ratio Lower Upper
97 100
83 0.0 68.1 102.1#
85 0.0 41.8 62.6#
99 249.0 47.0 70.4#



#51
Ethyl methacrylate
Concen: 0.681 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.118 min
Lab File: VN084075.D
Acq: 20 Sep 2024 17:09

Tgt Ion: 69 Resp: 1690
Ion Ratio Lower Upper
69 100
41 2271.7 25.5 76.5#
39 1021.7 16.0 47.9#





#52

1,3-Dichloropropane

Concen: 1.693 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.047 min

Lab File: VN084075.D

Acq: 20 Sep 2024 17:09

Instrument :

MSVOA_N

ClientSampleId :

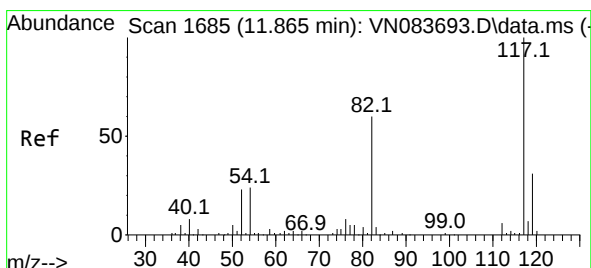
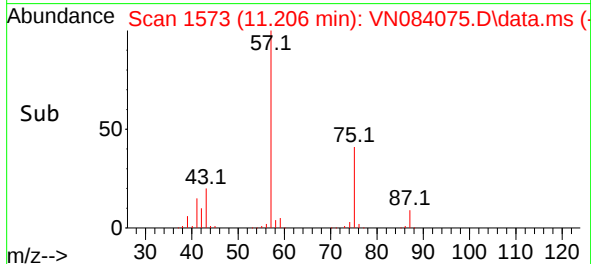
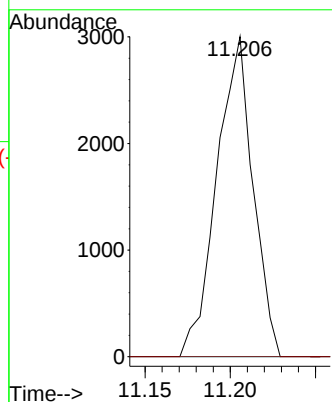
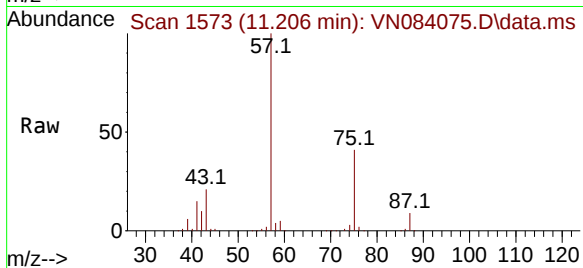
PB163512ZHE#08

Tgt Ion: 76 Resp: 4443

Ion Ratio Lower Upper

76 100

78 0.0 0.0 65.8



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN084075.D

Acq: 20 Sep 2024 17:09

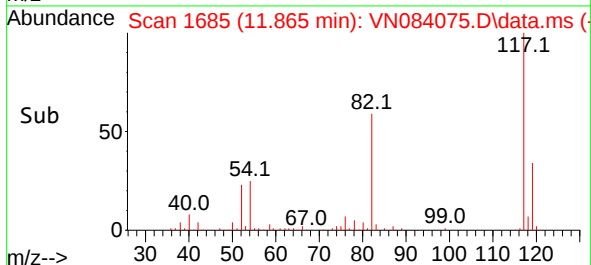
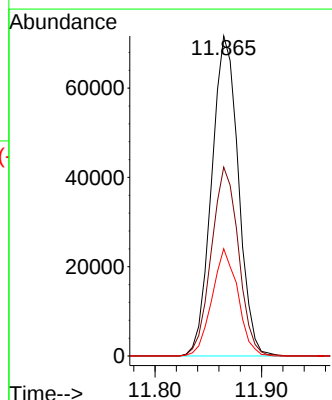
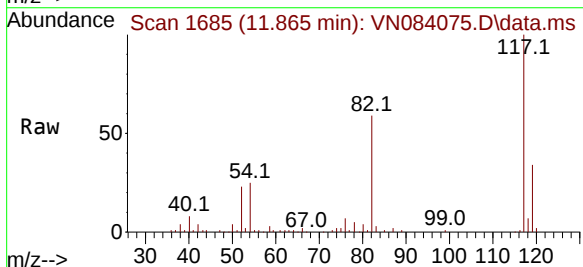
Tgt Ion: 117 Resp: 124933

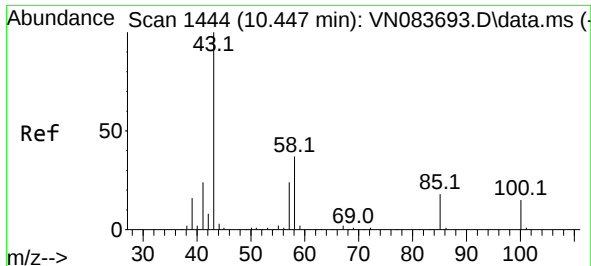
Ion Ratio Lower Upper

117 100

82 59.9 46.6 69.8

119 32.4 25.4 38.2





#58

4-Methyl-2-Pentanone

Concen: 5.324 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN084075.D

Acq: 20 Sep 2024 17:09

Instrument :

MSVOA_N

ClientSampleId :

PB163512ZHE#08

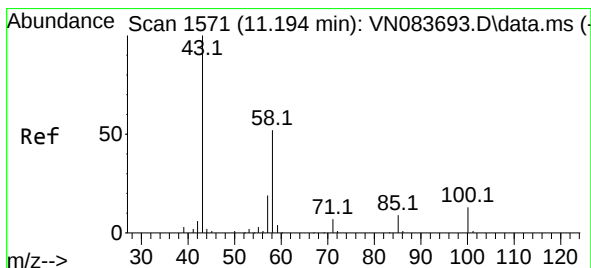
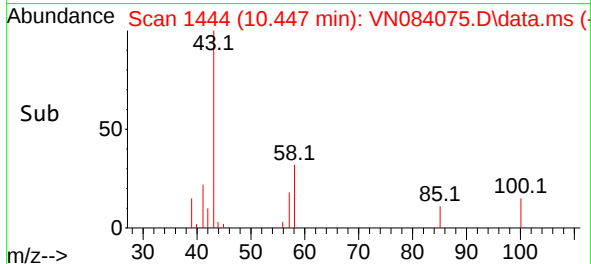
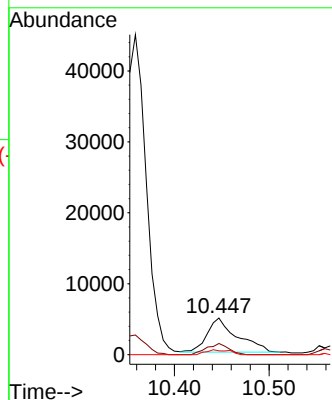
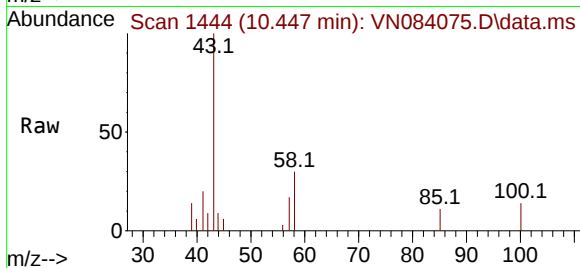
Tgt Ion: 43 Resp: 10546

Ion Ratio Lower Upper

43 100

58 24.1 36.5 54.7#

85 8.5 19.5 29.3#



#59

2-Hexanone

Concen: 42.578 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN084075.D

Acq: 20 Sep 2024 17:09

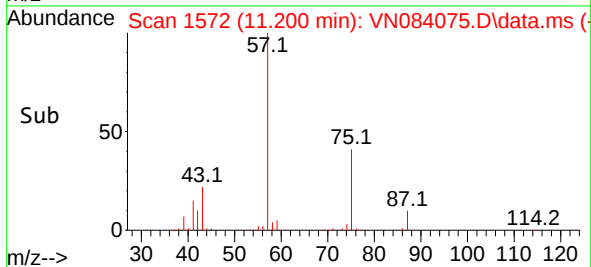
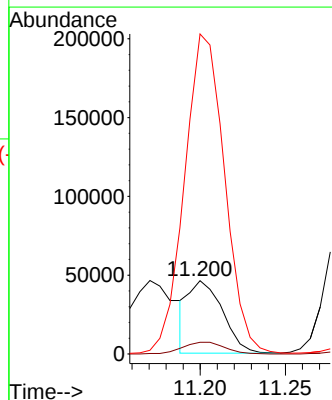
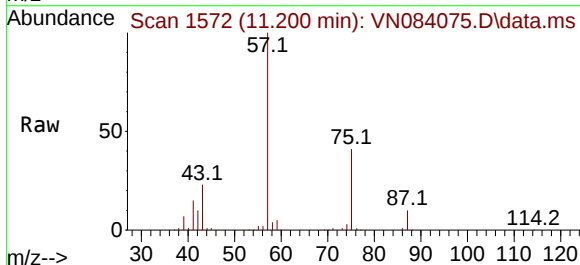
Tgt Ion: 43 Resp: 63732

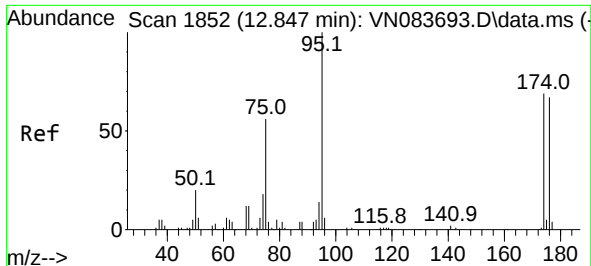
Ion Ratio Lower Upper

43 100

58 20.0 50.4 75.6#

57 523.9 18.6 27.8#

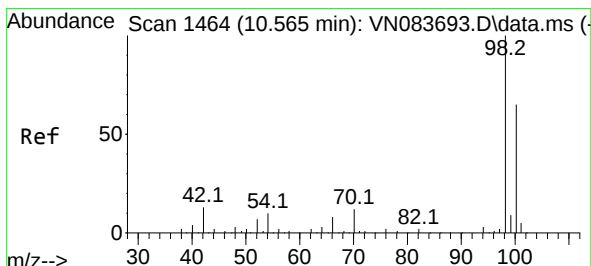
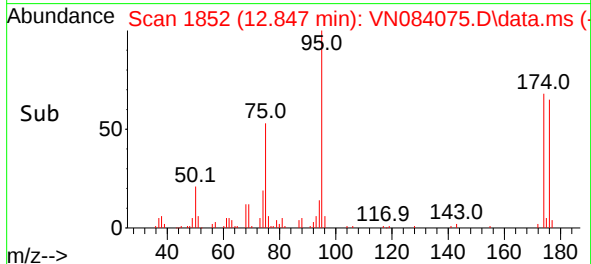
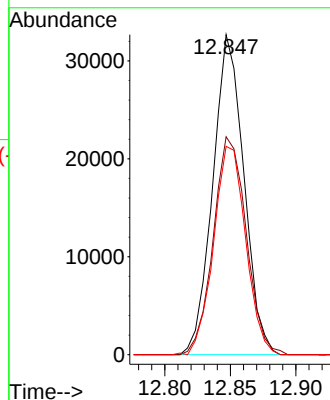
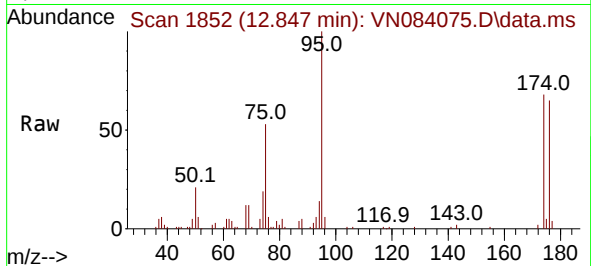




#60
4-Bromofluorobenzene
Concen: 24.995 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084075.D
Acq: 20 Sep 2024 17:09

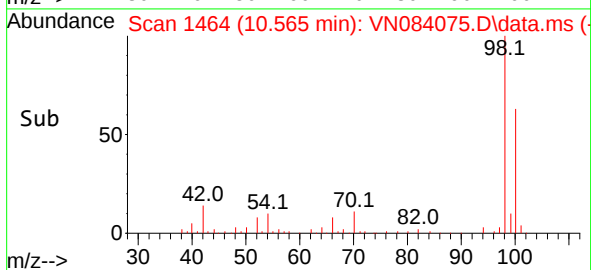
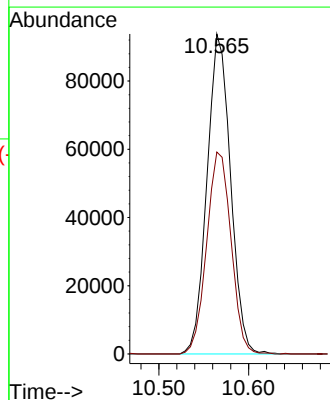
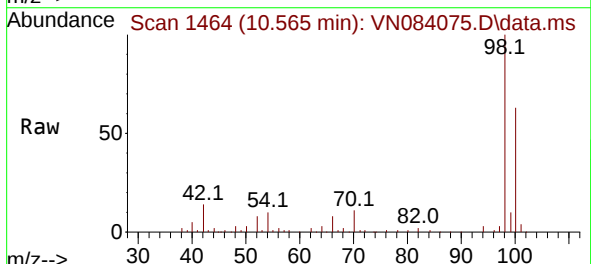
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#08

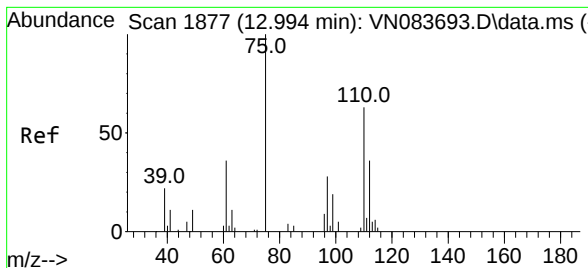
Tgt Ion: 95 Resp: 53820
Ion Ratio Lower Upper
95 100
174 72.1 60.5 90.7
176 67.2 57.8 86.6



#63
Toluene-d8
Concen: 29.572 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084075.D
Acq: 20 Sep 2024 17:09

Tgt Ion: 98 Resp: 171070
Ion Ratio Lower Upper
98 100
100 65.2 52.7 79.1





#72

1,2,3-Trichloropropane

Concen: 16.389 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN084075.D

Acq: 20 Sep 2024 17:09

Instrument :

MSVOA_N

ClientSampleId :

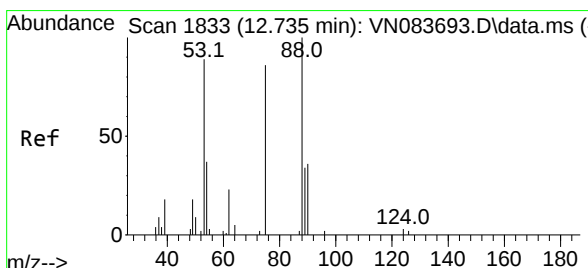
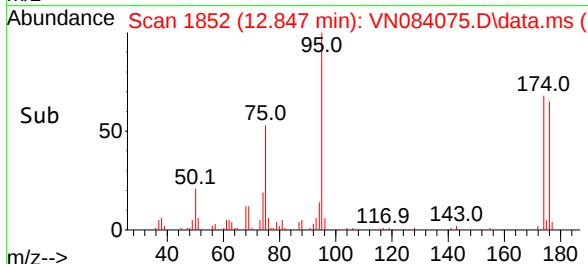
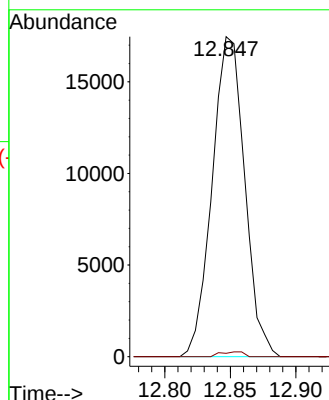
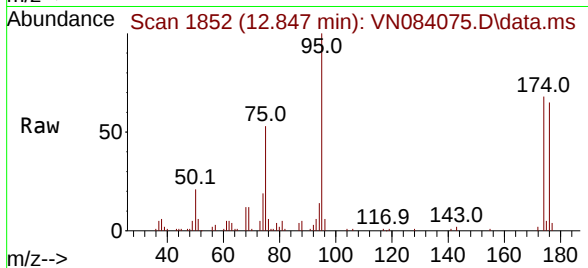
PB163512ZHE#08

Tgt Ion: 75 Resp: 30116

Ion Ratio Lower Upper

75 100

77 1.1 0.0 367.6



#77

t-1,4-Dichloro-2-butene

Concen: 38.775 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN084075.D

Acq: 20 Sep 2024 17:09

Tgt Ion: 75 Resp: 30116

Ion Ratio Lower Upper

75 100

53 0.0 45.9 137.7#

89 0.0 25.9 77.7#

