

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092024\
 Data File : VN084076.D
 Acq On : 20 Sep 2024 17:33
 Operator : JC\MD
 Sample : P4093-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 23:29:52 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)

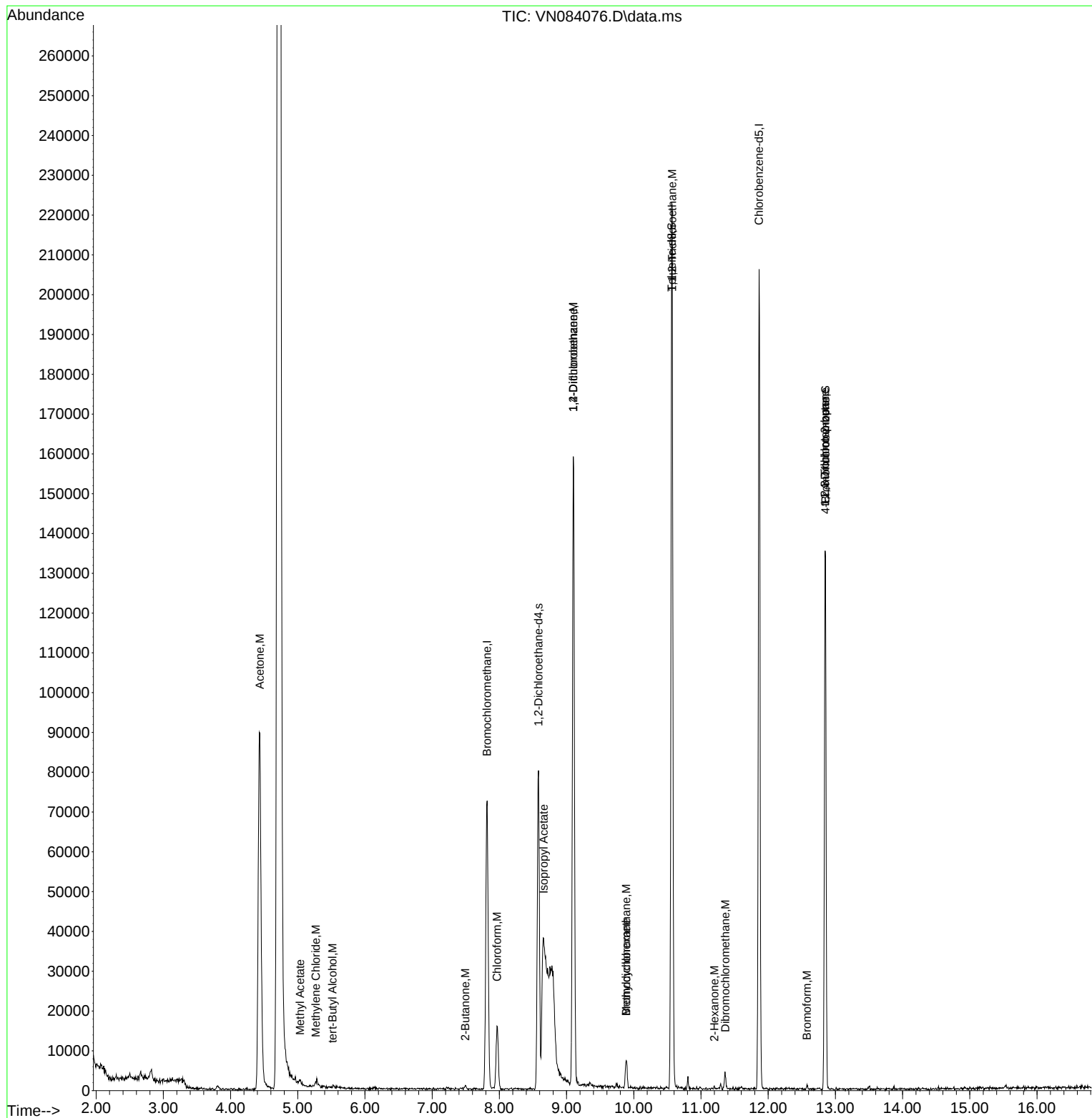
Internal Standards						
1) Bromochloromethane	7.818	128	24361	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	127685	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	111024	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	67701	30.403	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.333%			
60) 4-Bromofluorobenzene	12.853	95	46731	24.422	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 81.400%			
63) Toluene-d8	10.565	98	153322	29.824	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.400%			
Target Compounds						Qvalue
12) Methyl Acetate	5.036	43	1620	0.887	ug/l	89
15) Acetone	4.436	58	49347	201.314	ug/l	77
18) Methylene Chloride	5.271	84	727	0.439	ug/l #	80
23) tert-Butyl Alcohol	5.518	59	204	0.752	ug/l #	100
25) Chloroform	7.965	83	15513	4.782	ug/l	93
30) 2-Butanone	7.494	43	1241	1.300	ug/l #	77
36) 1,2-Dichloroethane	9.100	62	5315	2.327	ug/l #	72
38) Methylcyclohexane	9.888	83	5467	2.255	ug/l #	19
41) Bromodichloromethane	9.888	83	5467	2.404	ug/l #	89
44) Isopropyl Acetate	8.659	43	32160	9.676	ug/l #	44
50) 1,1,2-Trichloroethane	10.571	97	5098	3.747	ug/l #	1
53) Dibromochloromethane	11.365	129	2549	1.562	ug/l	96
56) Bromoform	12.576	173	557	0.537	ug/l #	35
59) 2-Hexanone	11.200	43	273	0.205	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	25986	15.914	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	25986	37.649	ug/l #	12

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

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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

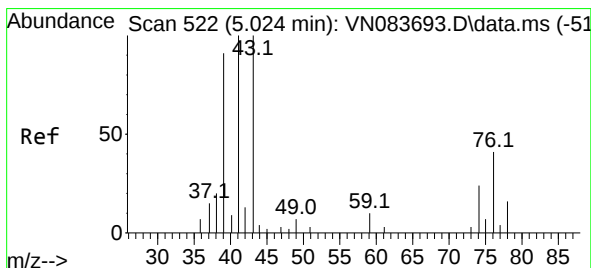
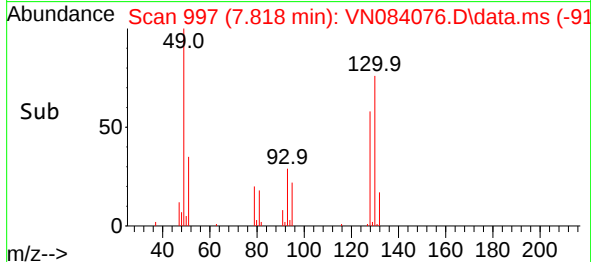
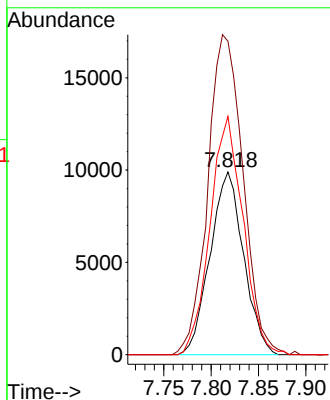
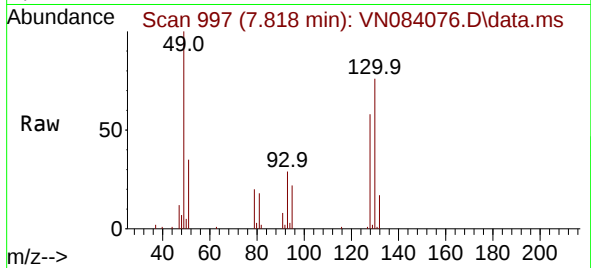




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN084076.D
Acq: 20 Sep 2024 17:33

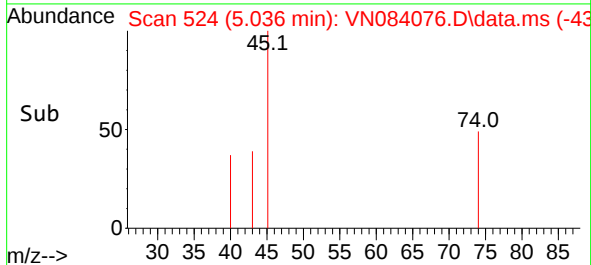
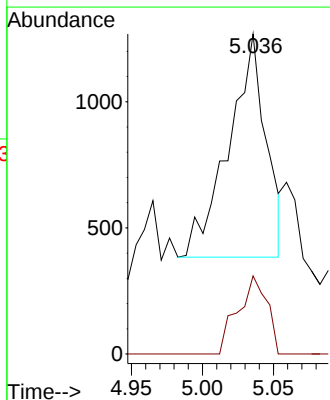
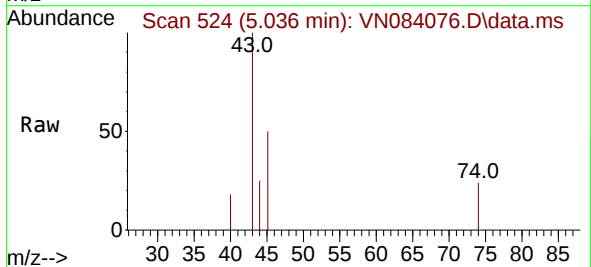
Instrument :
MSVOA_N
ClientSampleId :

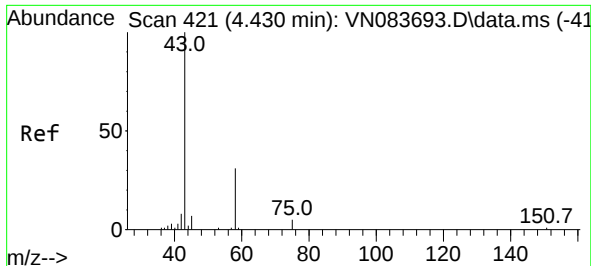
Tgt Ion:128 Resp: 24361
Ion Ratio Lower Upper
128 100
49 184.1 0.0 403.7
130 128.7 0.0 323.3



#12
Methyl Acetate
Concen: 0.887 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.012 min
Lab File: VN084076.D
Acq: 20 Sep 2024 17:33

Tgt Ion: 43 Resp: 1620
Ion Ratio Lower Upper
43 100
74 40.8 27.7 41.5





#15

Acetone

Concen: 201.314 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN084076.D

Acq: 20 Sep 2024 17:33

Instrument :

MSVOA_N

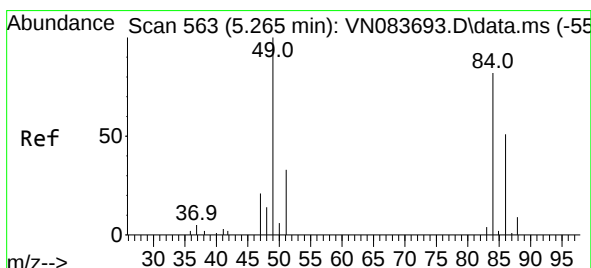
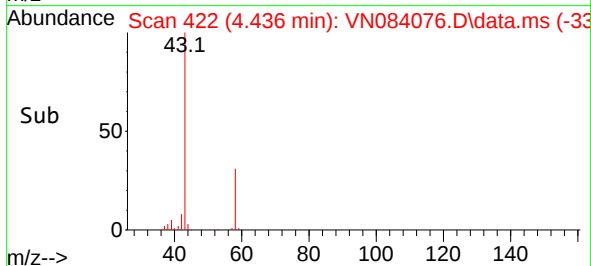
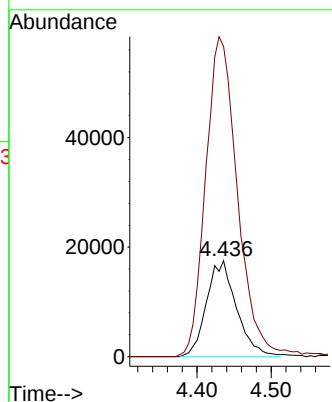
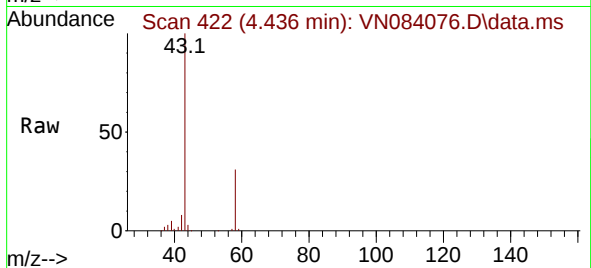
ClientSampleId :

Tgt Ion: 58 Resp: 49347

Ion Ratio Lower Upper

58 100

43 321.3 223.1 334.7



#18

Methylene Chloride

Concen: 0.439 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.006 min

Lab File: VN084076.D

Acq: 20 Sep 2024 17:33

Tgt Ion: 84 Resp: 727

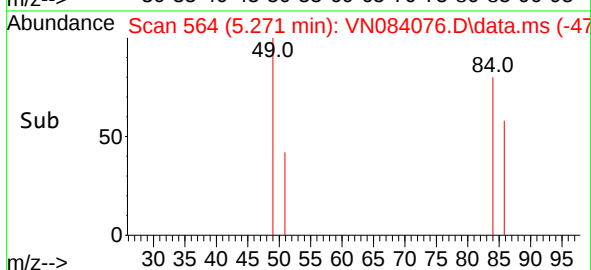
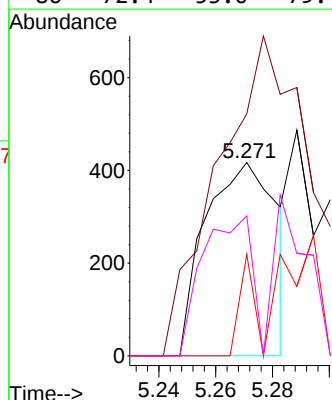
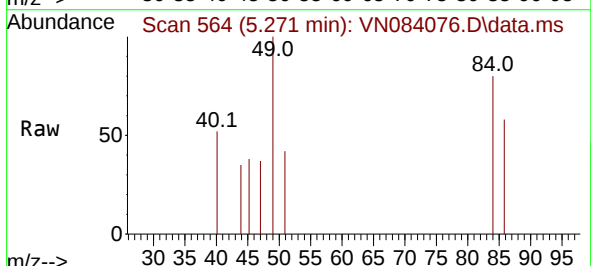
Ion Ratio Lower Upper

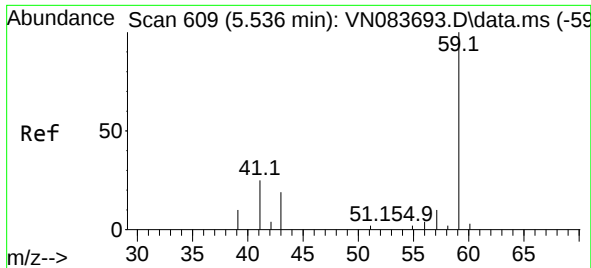
84 100

49 80.6 86.0 129.0#

51 52.5 30.0 45.0#

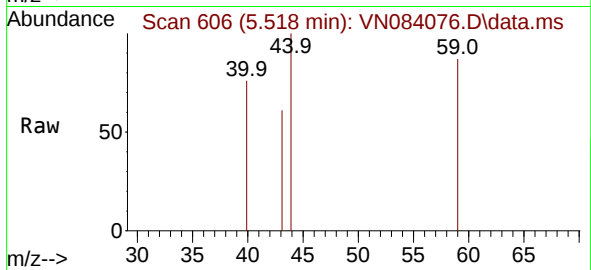
86 72.4 53.0 79.4



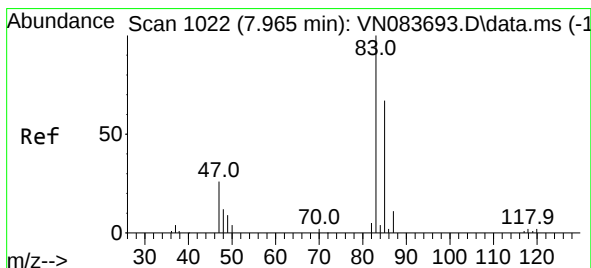
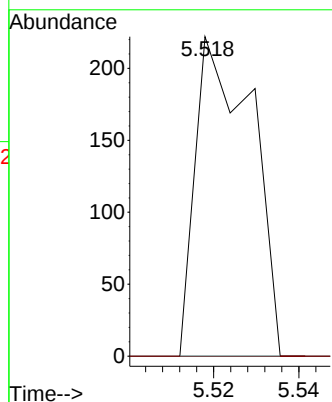
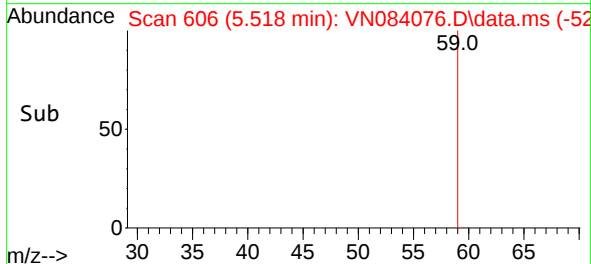


#23
tert-Butyl Alcohol
Concen: 0.752 ug/l
RT: 5.518 min Scan# 609
Delta R.T. -0.018 min
Lab File: VN084076.D
Acq: 20 Sep 2024 17:33

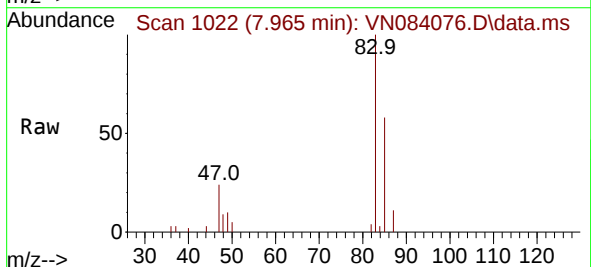
Instrument :
MSVOA_N
ClientSampleId :



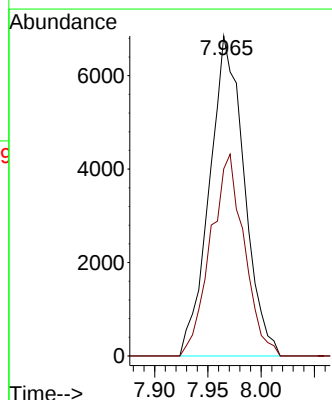
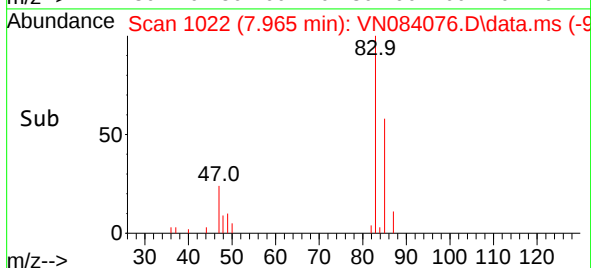
Tgt Ion: 59 Resp: 204
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

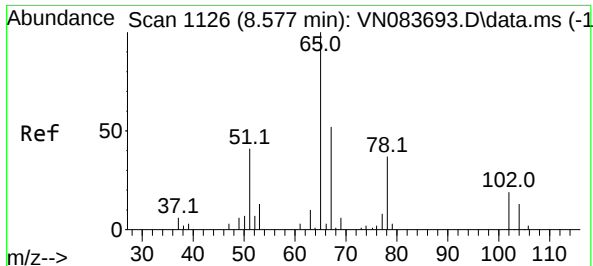


#25
Chloroform
Concen: 4.782 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN084076.D
Acq: 20 Sep 2024 17:33



Tgt Ion: 83 Resp: 15513
Ion Ratio Lower Upper
83 100
85 58.5 50.9 76.3





#27

1,2-Dichloroethane-d4

Concen: 30.403 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN084076.D

Acq: 20 Sep 2024 17:33

Instrument :

MSVOA_N

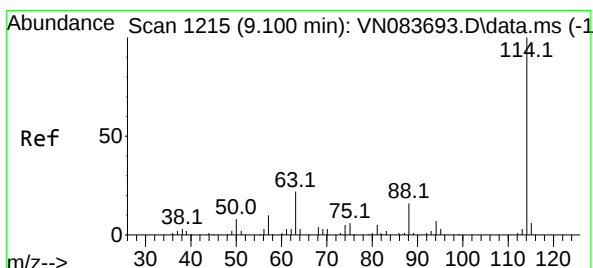
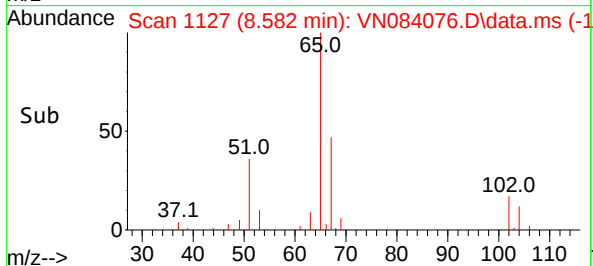
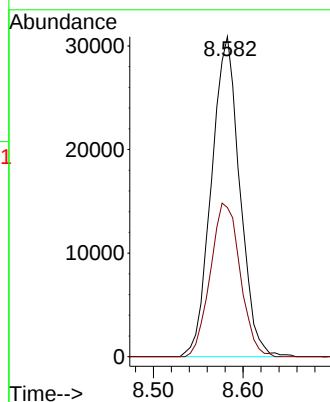
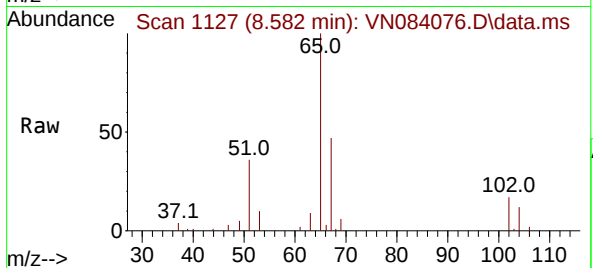
ClientSampleId :

Tgt Ion: 65 Resp: 67701

Ion Ratio Lower Upper

65 100

67 50.4 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: VN084076.D

Acq: 20 Sep 2024 17:33

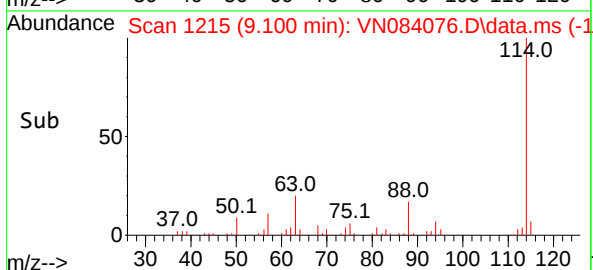
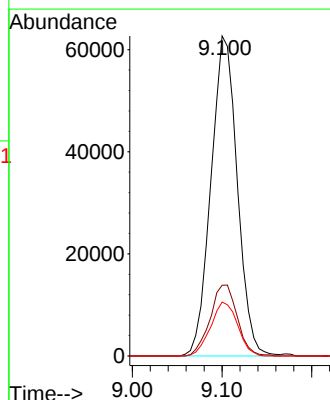
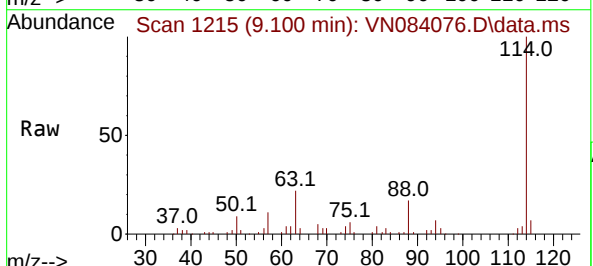
Tgt Ion: 114 Resp: 127685

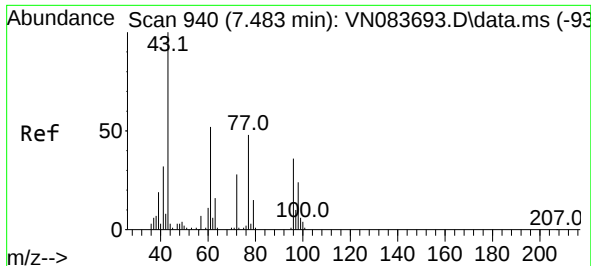
Ion Ratio Lower Upper

114 100

63 22.8 15.9 23.9

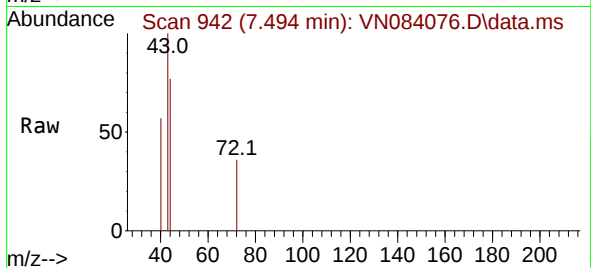
88 17.2 12.7 19.1



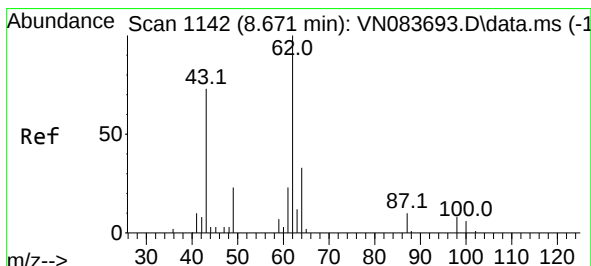
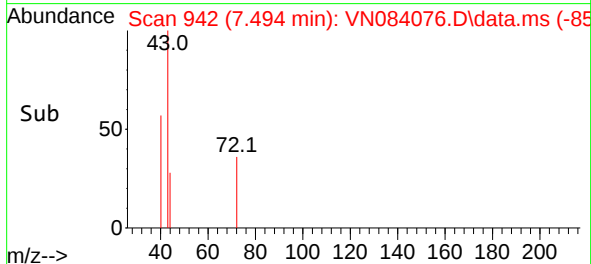
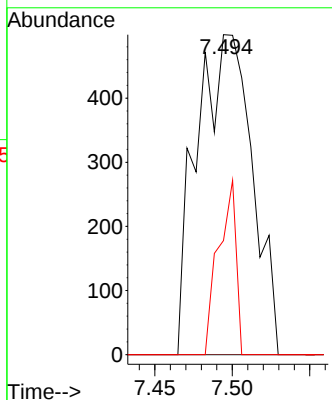


#30
2-Butanone
Concen: 1.300 ug/l
RT: 7.494 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN084076.D
Acq: 20 Sep 2024 17:33

Instrument :
MSVOA_N
ClientSampleId :

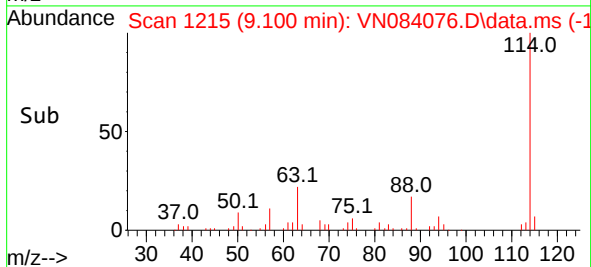
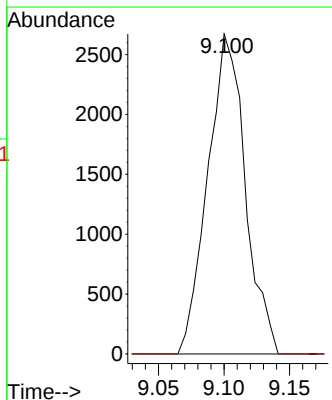
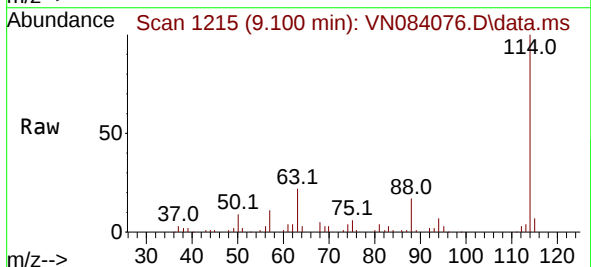


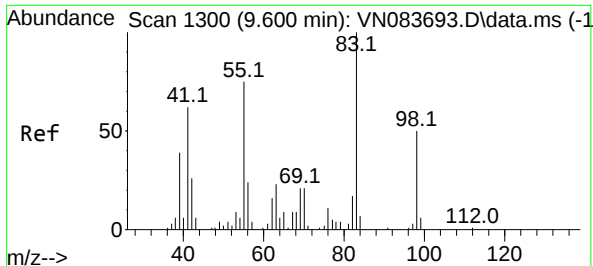
Tgt Ion: 43 Resp: 1241
Ion Ratio Lower Upper
43 100
57 0.0 6.7 10.1#
72 17.3 24.0 36.0#



#36
1,2-Dichloroethane
Concen: 2.327 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.429 min
Lab File: VN084076.D
Acq: 20 Sep 2024 17:33

Tgt Ion: 62 Resp: 5315
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.4#





#38

Methylcyclohexane

Concen: 2.255 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.288 min

Lab File: VN084076.D

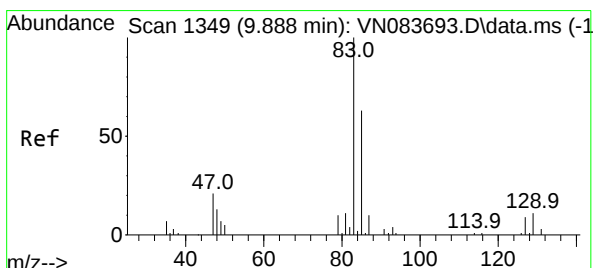
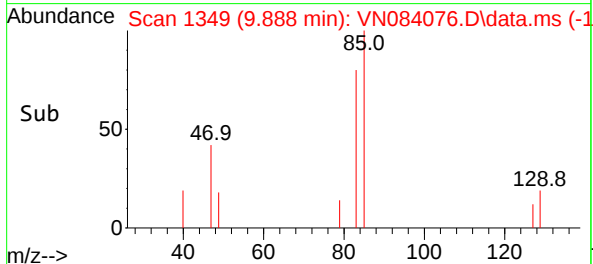
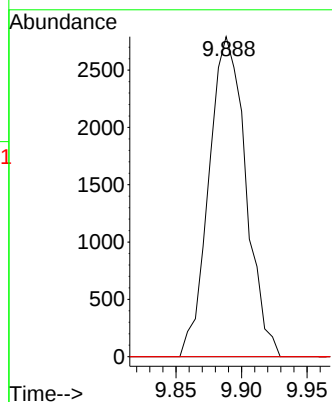
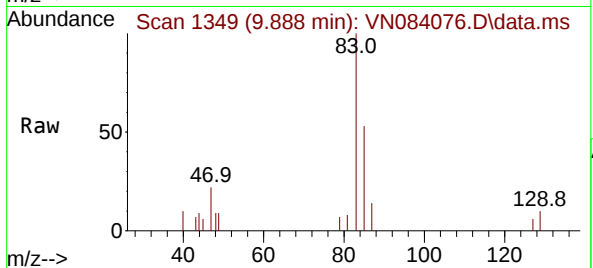
Acq: 20 Sep 2024 17:33

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 83	Resp: 5467
Ion Ratio	Lower Upper
83 100	
55 0.0	36.6 109.9#
98 0.0	23.8 71.5#



#41

Bromodichloromethane

Concen: 2.404 ug/l

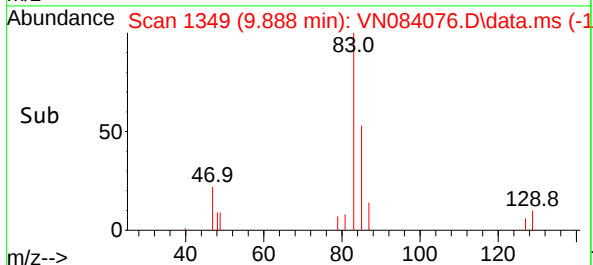
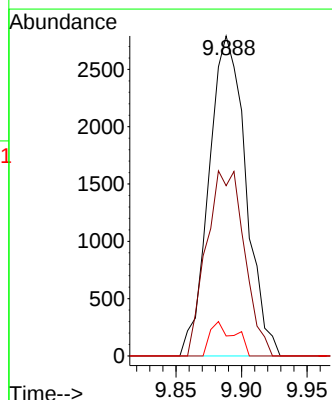
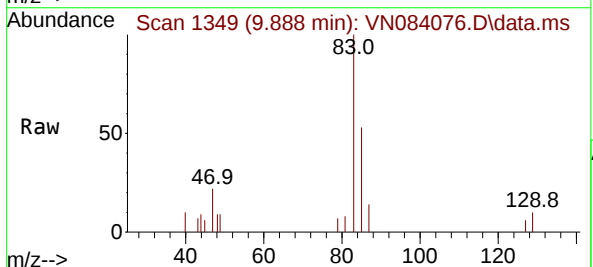
RT: 9.888 min Scan# 1349

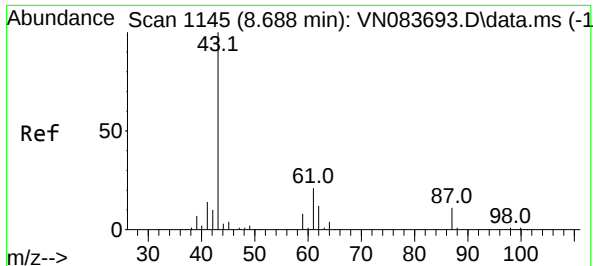
Delta R.T. -0.000 min

Lab File: VN084076.D

Acq: 20 Sep 2024 17:33

Tgt Ion: 83	Resp: 5467
Ion Ratio	Lower Upper
83 100	
85 53.2	49.4 74.2
127 6.3	7.3 10.9#





#44

Isopropyl Acetate

Concen: 9.676 ug/l

RT: 8.659 min Scan# 1140

Delta R.T. -0.029 min

Lab File: VN084076.D

Acq: 20 Sep 2024 17:33

Instrument :

MSVOA_N

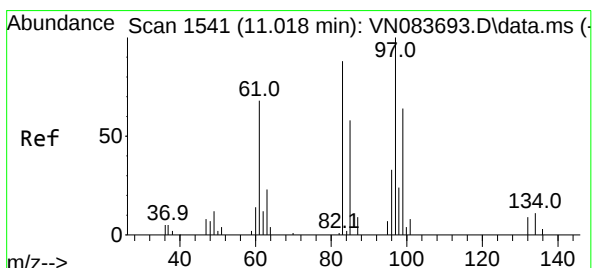
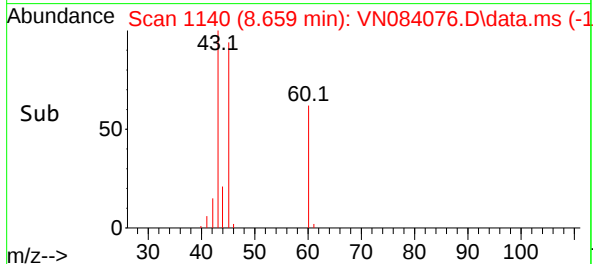
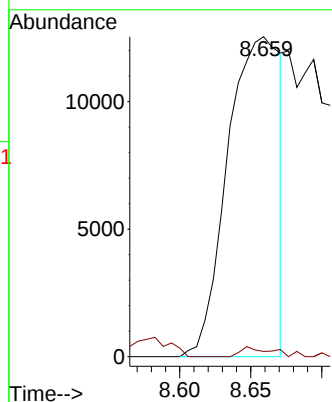
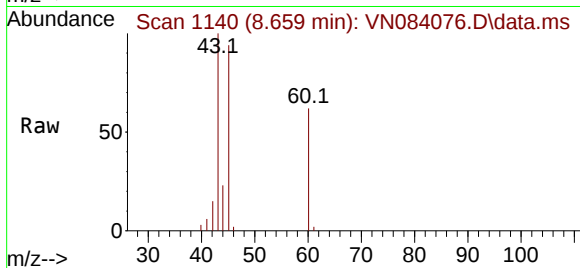
ClientSampleId :

Tgt Ion: 43 Resp: 32160

Ion Ratio Lower Upper

43 100

61 0.6 25.0 37.4#



#50

1,1,2-Trichloroethane

Concen: 3.747 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.447 min

Lab File: VN084076.D

Acq: 20 Sep 2024 17:33

Tgt Ion: 97 Resp: 5098

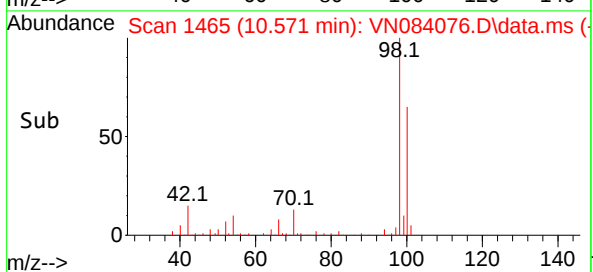
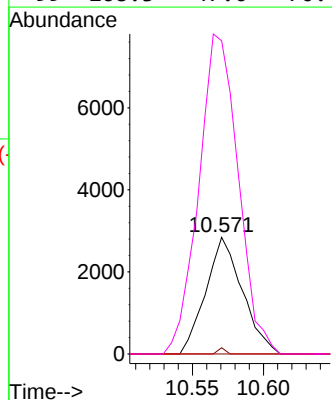
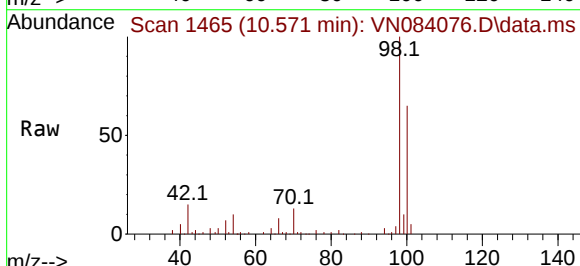
Ion Ratio Lower Upper

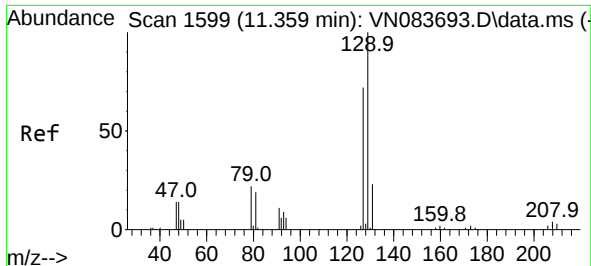
97 100

83 5.4 68.1 102.1#

85 0.0 41.8 62.6#

99 268.3 47.0 70.4#

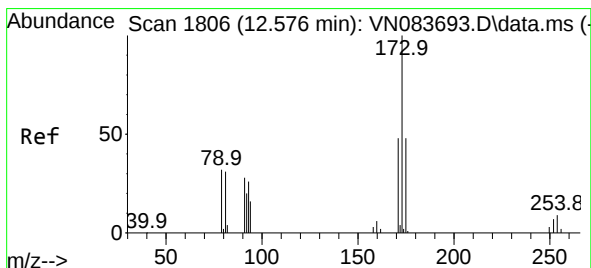
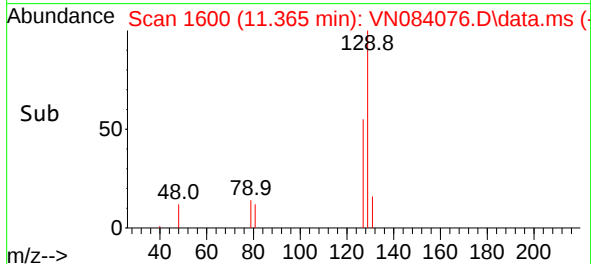
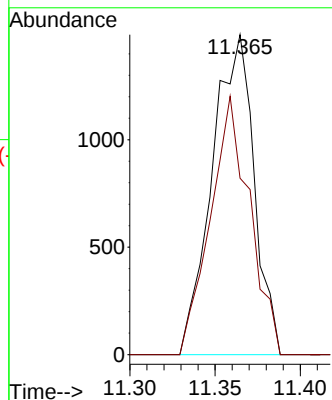
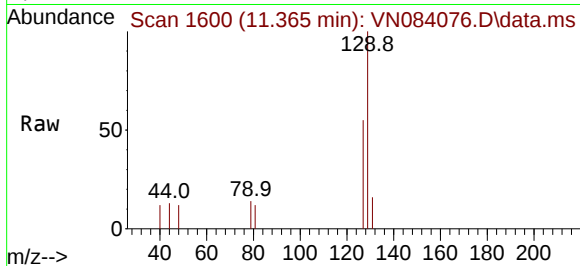




#53
Dibromochloromethane
Concen: 1.562 ug/l
RT: 11.365 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084076.D
Acq: 20 Sep 2024 17:33

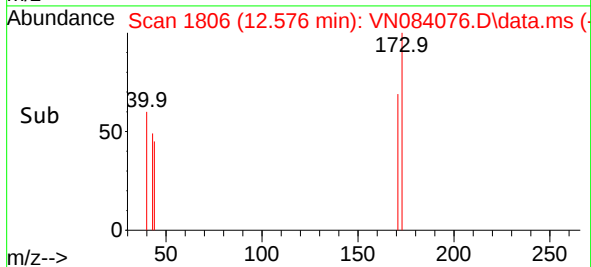
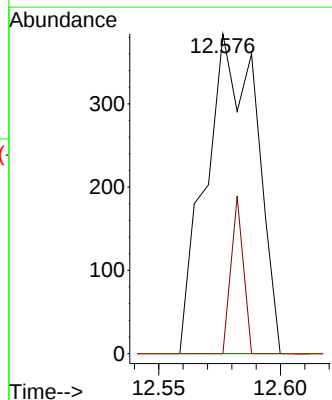
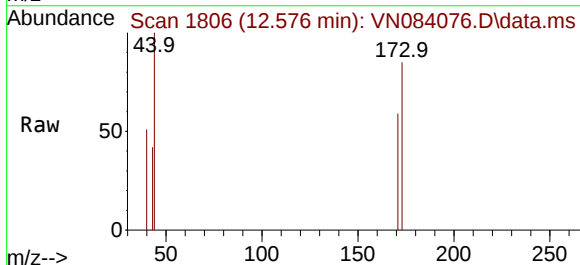
Instrument :
MSVOA_N
ClientSampleId :

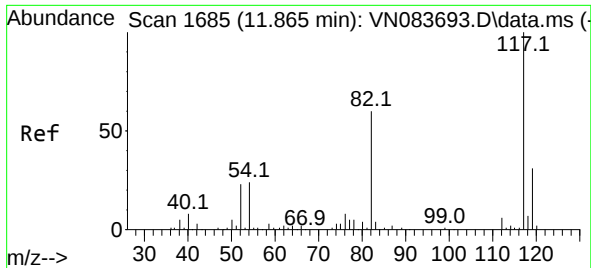
Tgt Ion:129 Resp: 2549
Ion Ratio Lower Upper
129 100
127 75.6 39.4 118.1



#56
Bromoform
Concen: 0.537 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN084076.D
Acq: 20 Sep 2024 17:33

Tgt Ion:173 Resp: 557
Ion Ratio Lower Upper
173 100
175 0.0 40.0 60.0#
254 0.0 8.3 12.5#

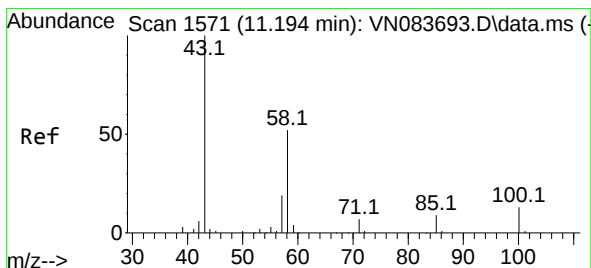
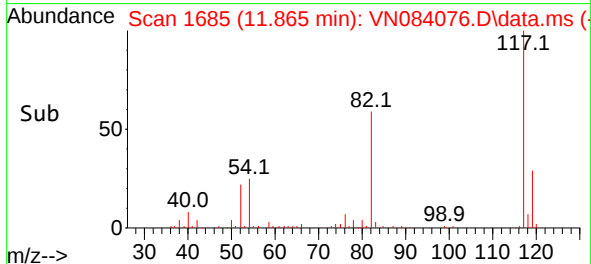
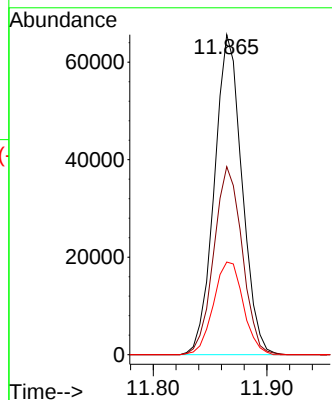
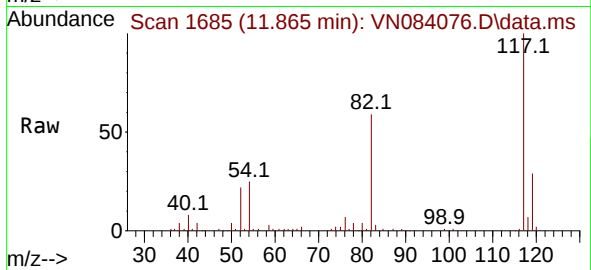




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN084076.D
Acq: 20 Sep 2024 17:33

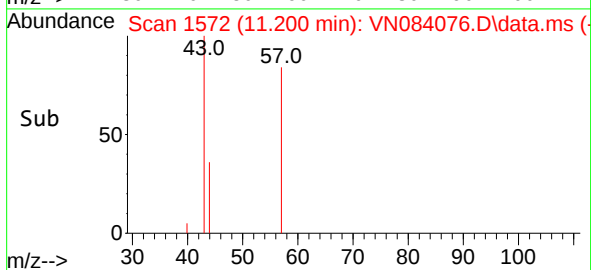
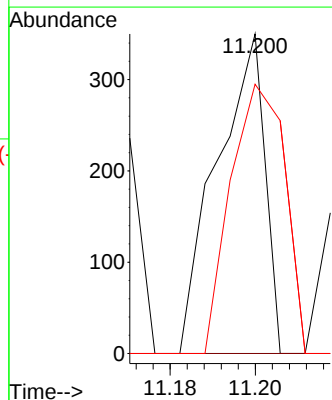
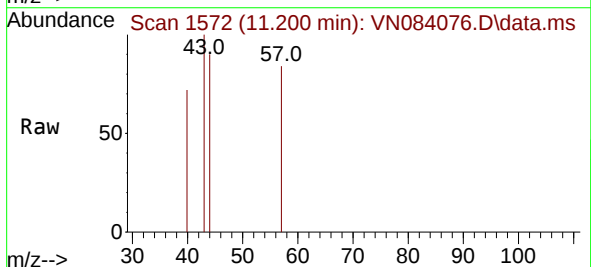
Instrument :
MSVOA_N
ClientSampleId :

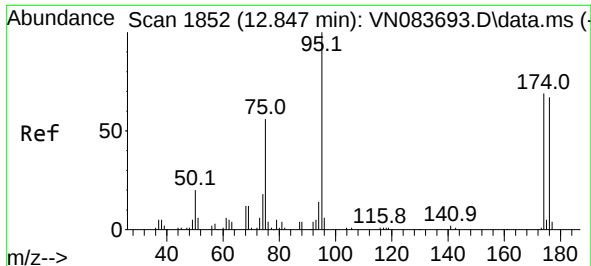
Tgt Ion:117 Resp: 111024
Ion Ratio Lower Upper
117 100
82 60.3 46.6 69.8
119 31.2 25.4 38.2



#59
2-Hexanone
Concen: 0.205 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN084076.D
Acq: 20 Sep 2024 17:33

Tgt Ion: 43 Resp: 273
Ion Ratio Lower Upper
43 100
58 0.0 50.4 75.6#
57 95.6 18.6 27.8#

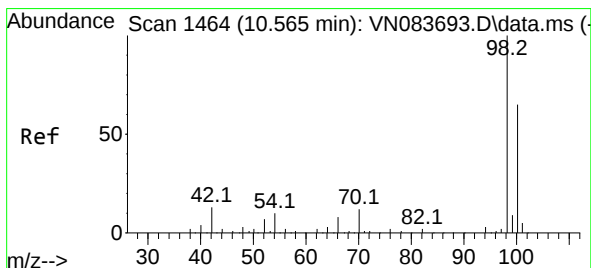
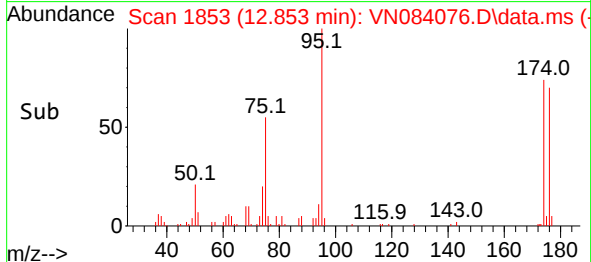
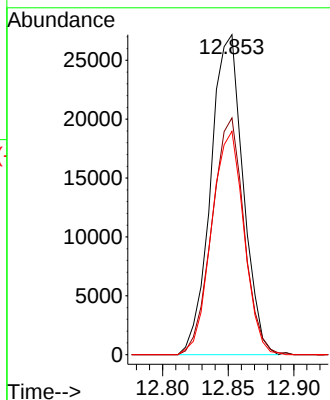
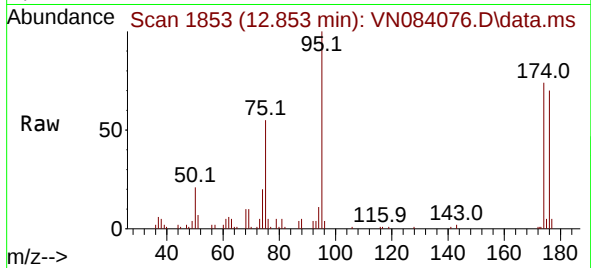




#60
4-Bromofluorobenzene
Concen: 24.422 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084076.D
Acq: 20 Sep 2024 17:33

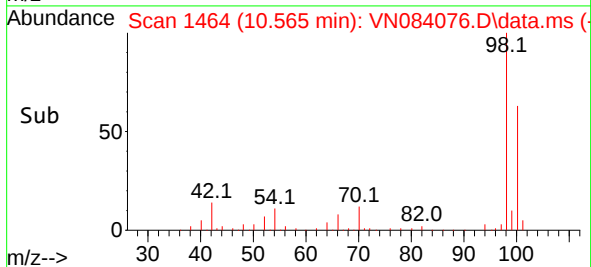
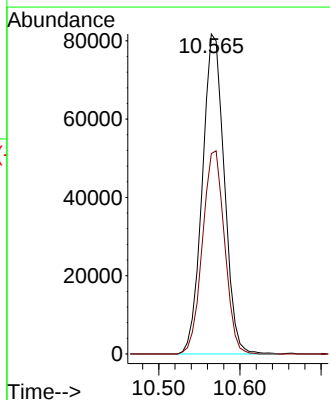
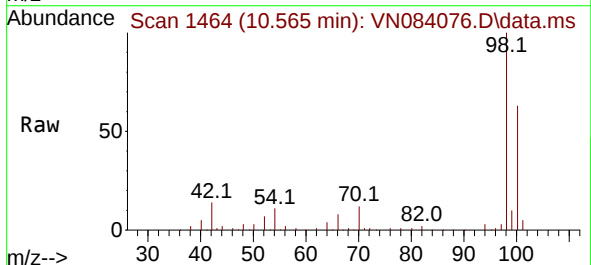
Instrument :
MSVOA_N
ClientSampleId :

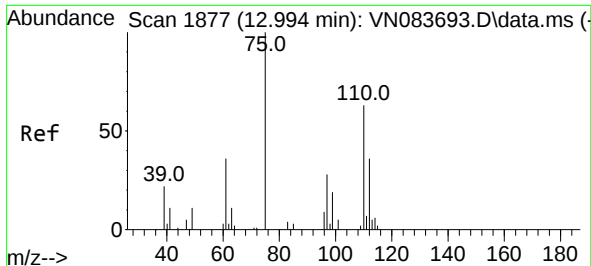
Tgt Ion: 95 Resp: 46731
Ion Ratio Lower Upper
95 100
174 73.3 60.5 90.7
176 69.7 57.8 86.6



#63
Toluene-d8
Concen: 29.824 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084076.D
Acq: 20 Sep 2024 17:33

Tgt Ion: 98 Resp: 153322
Ion Ratio Lower Upper
98 100
100 63.9 52.7 79.1

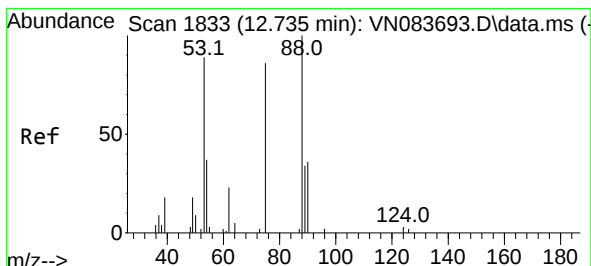
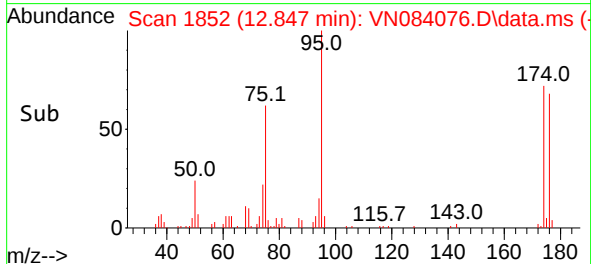
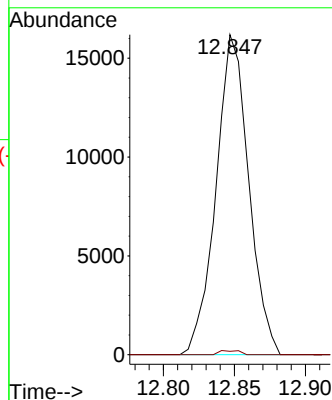
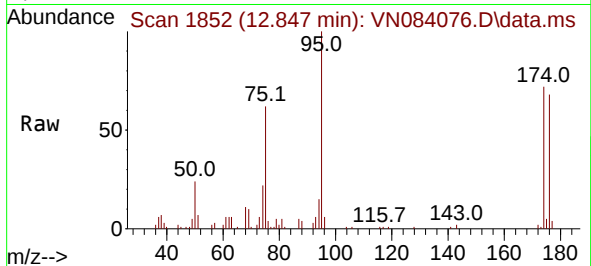




#72
1,2,3-Trichloropropane
Concen: 15.914 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN084076.D
Acq: 20 Sep 2024 17:33

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 25986
Ion Ratio Lower Upper
75 100
77 0.8 0.0 367.6



#77
t-1,4-Dichloro-2-butene
Concen: 37.649 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084076.D
Acq: 20 Sep 2024 17:33

Tgt Ion: 75 Resp: 25986
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#

