

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085138.D
 Acq On : 06 Dec 2024 19:39
 Operator : JC\MD
 Sample : P5044-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 06 23:13:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

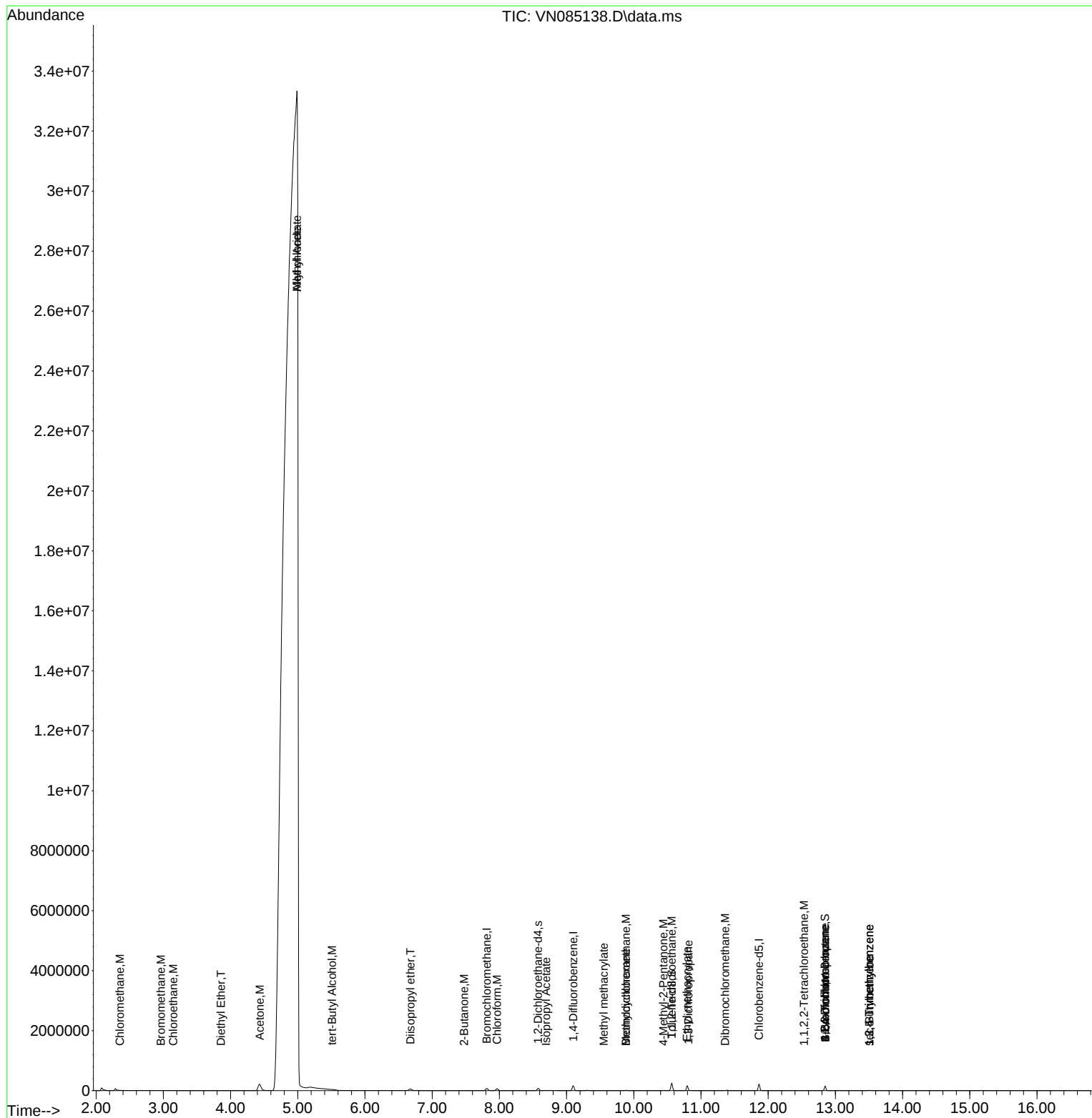
Internal Standards						
1) Bromochloromethane	7.812	128	25474	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	137106	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	125124	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	63814	31.571	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	105.233%
60) 4-Bromofluorobenzene	12.847	95	51396	24.825	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	82.767%
63) Toluene-d8	10.565	98	166151	28.308	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.367%
Target Compounds						
					Qvalue	
3) Chloromethane	2.354	50	718	0.398	ug/l #	43
5) Bromomethane	2.965	94	251	0.214	ug/l #	13
6) Chloroethane	3.148	64	303	0.267	ug/l #	43
8) Diethyl Ether	3.859	74	243	0.254	ug/l	96
12) Methyl Acetate	4.989	43	69819275	38148.507	ug/l #	51
15) Acetone	4.436	58	145694	707.463	ug/l	92
17) Allyl chloride	4.989	41	28048234	12635.202	ug/l #	56
20) Diisopropyl ether	6.677	45	65527	13.451	ug/l	93
23) tert-Butyl Alcohol	5.512	59	276	1.012	ug/l #	100
25) Chloroform	7.965	83	62683	19.899	ug/l	96
30) 2-Butanone	7.477	43	281	0.277	ug/l #	54
38) Methylcyclohexane	9.882	83	7340	3.051	ug/l #	15
41) Bromodichloromethane	9.882	83	7340	2.843	ug/l	95
44) Isopropyl Acetate	8.694	43	6530	1.860	ug/l #	67
46) Methyl methacrylate	9.553	41	597	0.372	ug/l #	35
50) 1,1,2-Trichloroethane	10.565	97	5731	3.522	ug/l #	1
51) Ethyl methacrylate	10.794	69	27881	11.266	ug/l	71
52) 1,3-Dichloropropane	10.812	76	1203	0.442	ug/l #	42
53) Dibromochloromethane	11.359	129	1220	0.615	ug/l	83
56) Bromoform	12.853	173	438	0.329	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	4952	2.425	ug/l #	70
71) 1,1,2,2-Tetrachloroethane	12.535	83	918	0.418	ug/l #	27
72) 1,2,3-Trichloropropane	12.847	75	26765	12.339	ug/l	1
76) 1,3,5-Trimethylbenzene	13.506	105	4619	0.747	ug/l #	29
77) t-1,4-Dichloro-2-butene	12.847	75	26765	33.958	ug/l #	10
80) 1,2,4-Trimethylbenzene	13.506	105	4619	0.757	ug/l #	32
81) sec-Butylbenzene	13.506	105	4619	0.640	ug/l #	58

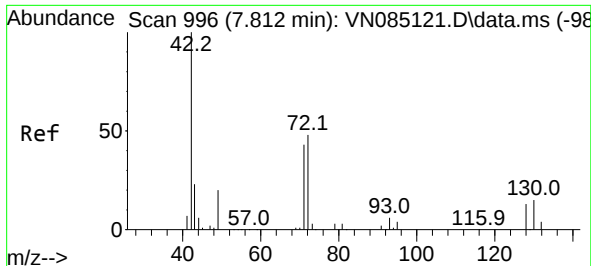
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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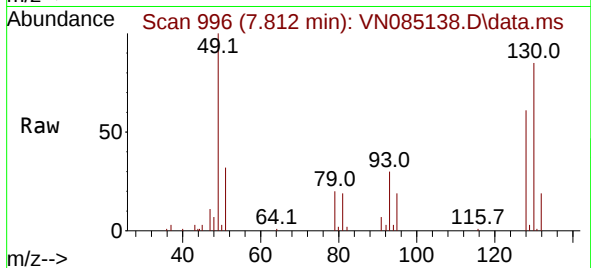
Quant Time: Dec 06 23:13:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
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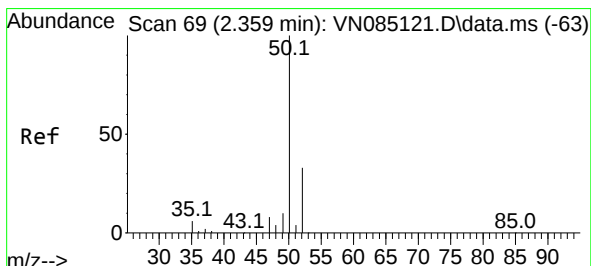
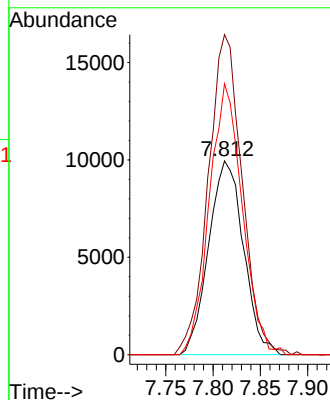
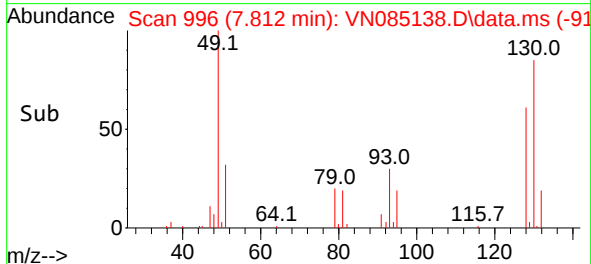


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

Instrument :
MSVOA_N
ClientSampleId :

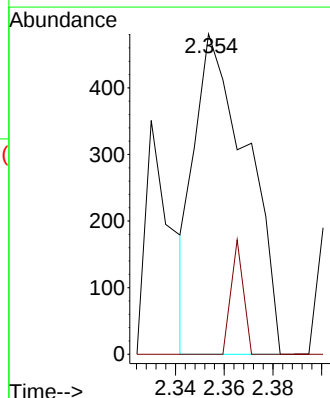
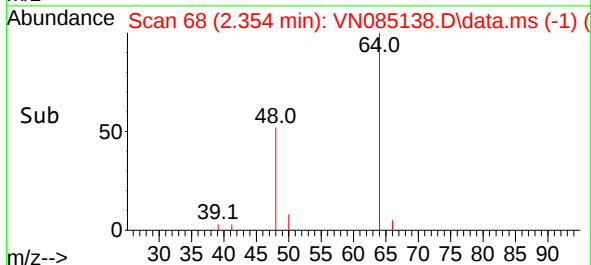
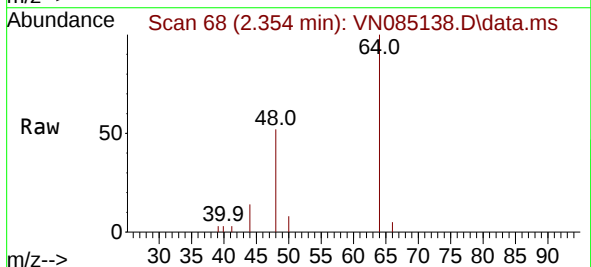


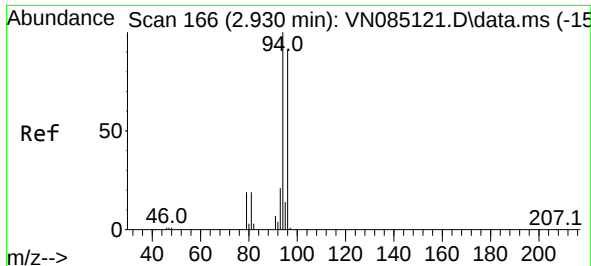
Tgt Ion:128 Resp: 25474
Ion Ratio Lower Upper
128 100
49 159.8 0.0 394.5
130 131.9 0.0 316.5



#3
Chloromethane
Concen: 0.398 ug/l
RT: 2.354 min Scan# 68
Delta R.T. -0.006 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

Tgt Ion: 50 Resp: 718
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#

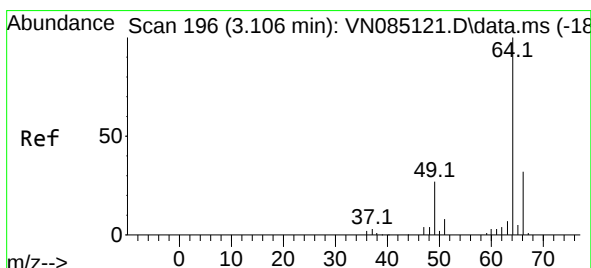
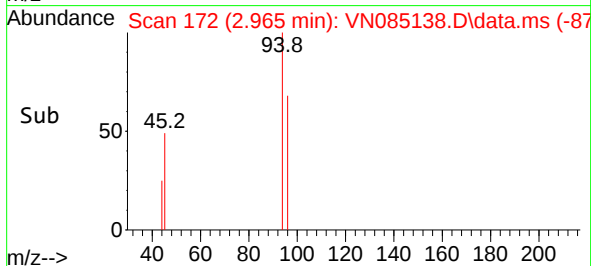
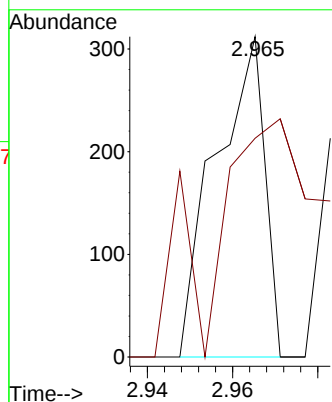
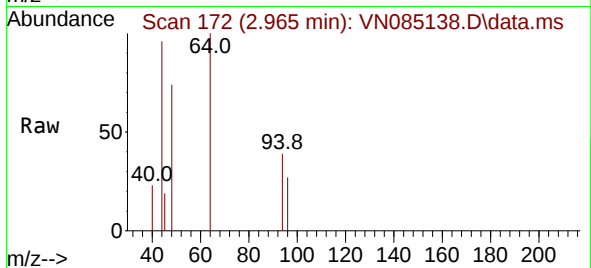




#5
Bromomethane
Concen: 0.214 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

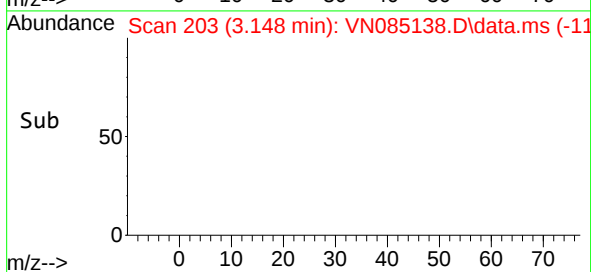
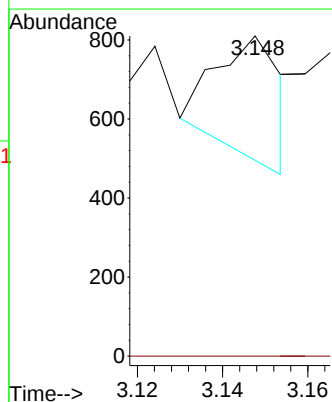
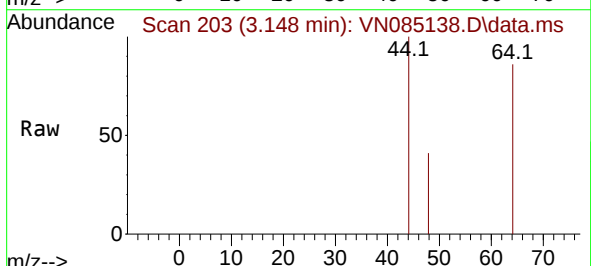
Instrument :
MSVOA_N
ClientSampleId :

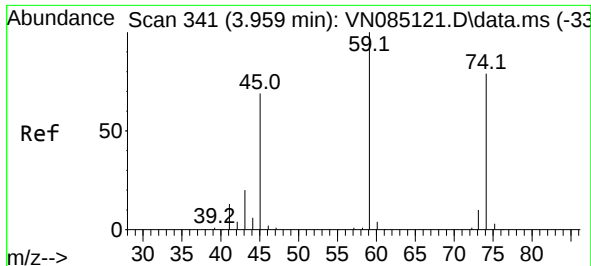
Tgt Ion: 94 Resp: 251
Ion Ratio Lower Upper
94 100
96 10.3 76.2 114.4#



#6
Chloroethane
Concen: 0.267 ug/l
RT: 3.148 min Scan# 203
Delta R.T. 0.024 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

Tgt Ion: 64 Resp: 303
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#





#8

Diethyl Ether

Concen: 0.254 ug/l

RT: 3.859 min Scan# 31

Delta R.T. -0.100 min

Lab File: VN085138.D

Acq: 06 Dec 2024 19:39

Instrument :

MSVOA_N

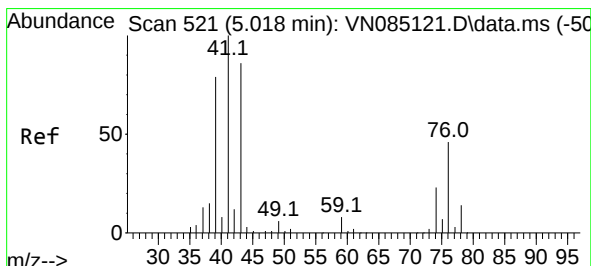
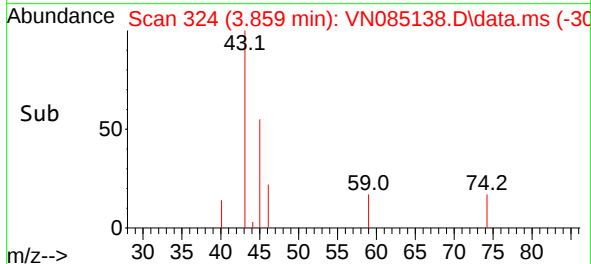
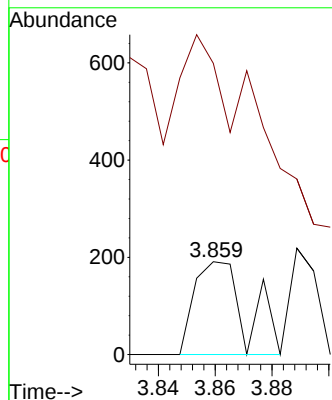
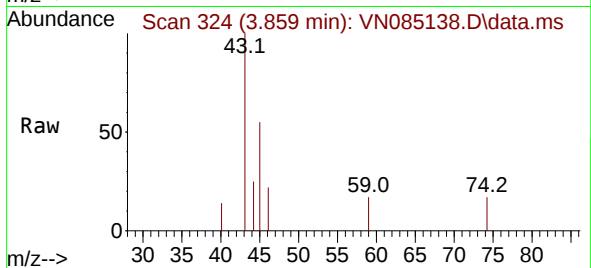
ClientSampleId :

Tgt Ion: 74 Resp: 243

Ion Ratio Lower Upper

74 100

45 96.7 18.6 167.8



#12

Methyl Acetate

Concen: 38148.507 ug/l

RT: 4.989 min Scan# 516

Delta R.T. -0.029 min

Lab File: VN085138.D

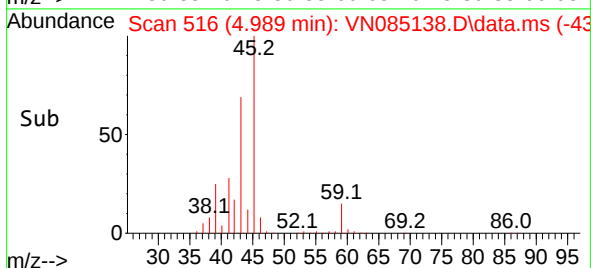
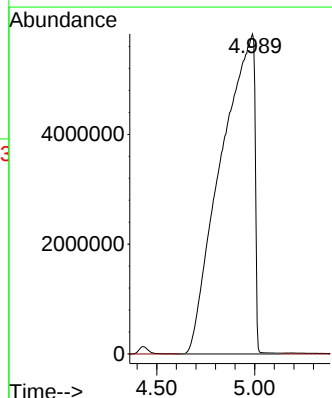
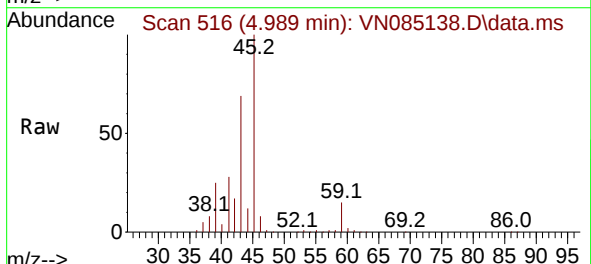
Acq: 06 Dec 2024 19:39

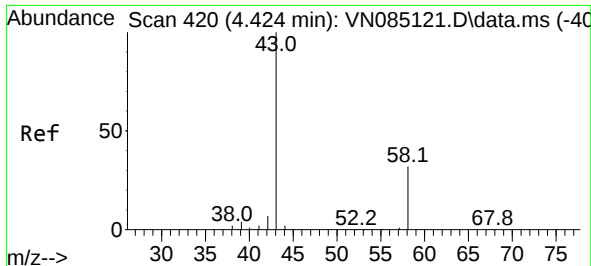
Tgt Ion: 43 Resp:69819275

Ion Ratio Lower Upper

43 100

74 0.0 19.8 29.6#





#15

Acetone

Concen: 707.463 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN085138.D

Acq: 06 Dec 2024 19:39

Instrument :

MSVOA_N

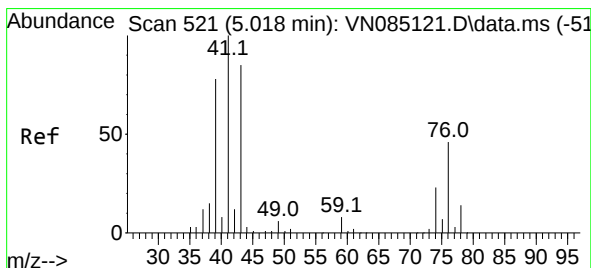
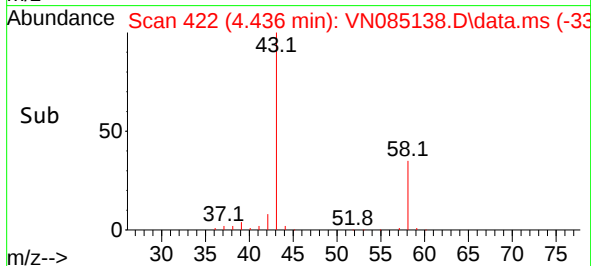
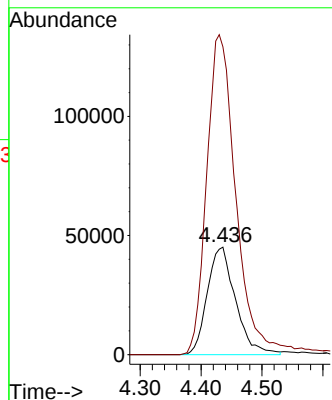
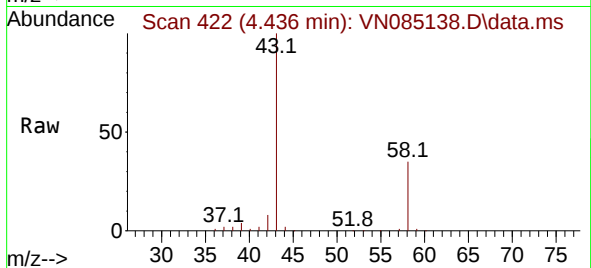
ClientSampleId :

Tgt Ion: 58 Resp: 145694

Ion Ratio Lower Upper

58 100

43 286.5 242.3 363.5



#17

Allyl chloride

Concen: 12635.202 ug/l

RT: 4.989 min Scan# 516

Delta R.T. -0.035 min

Lab File: VN085138.D

Acq: 06 Dec 2024 19:39

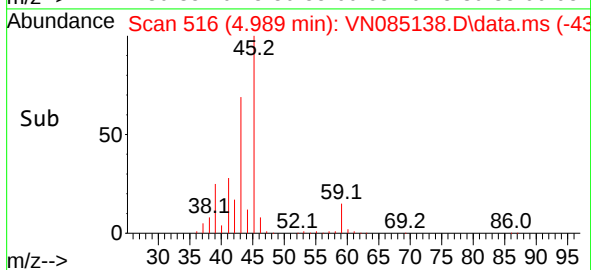
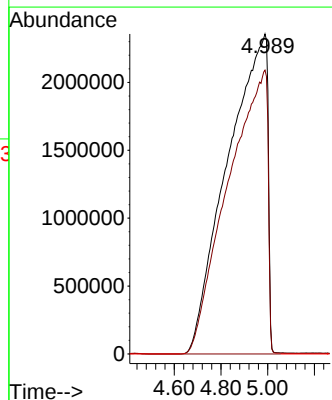
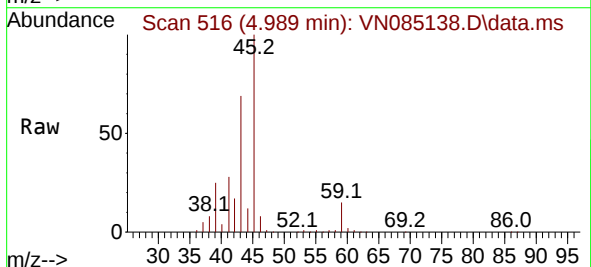
Tgt Ion: 41 Resp:28048234

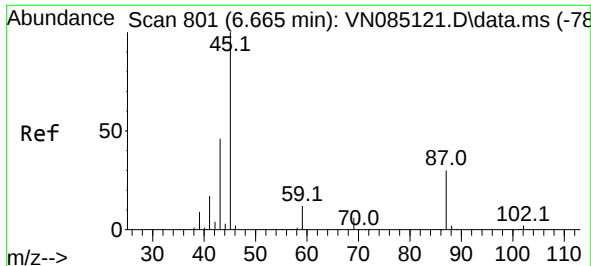
Ion Ratio Lower Upper

41 100

39 88.7 32.0 96.2

76 0.0 20.2 60.5#

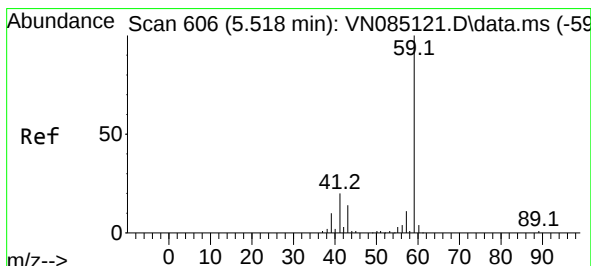
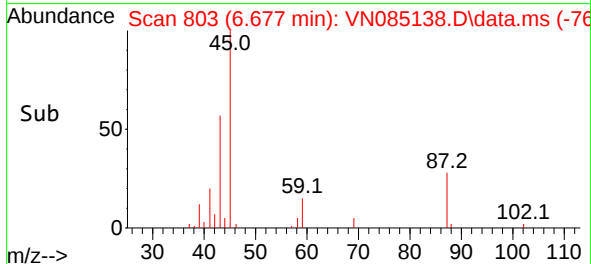
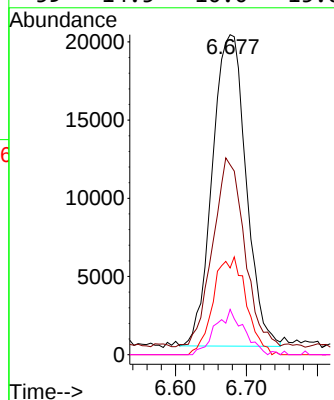
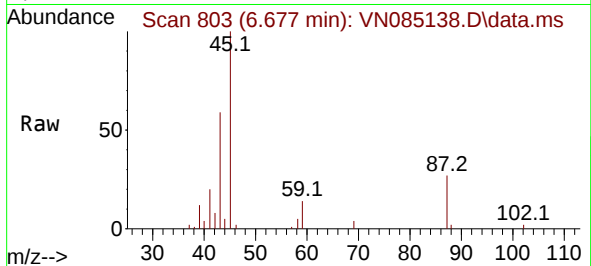




#20
Diisopropyl ether
Concen: 13.451 ug/l
RT: 6.677 min Scan# 801
Delta R.T. 0.012 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

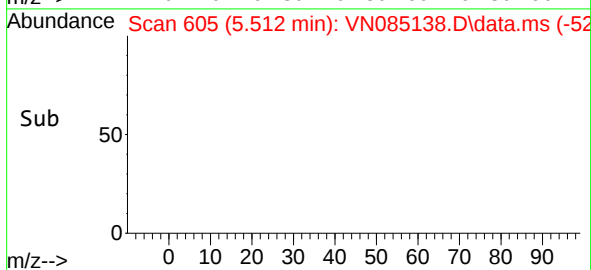
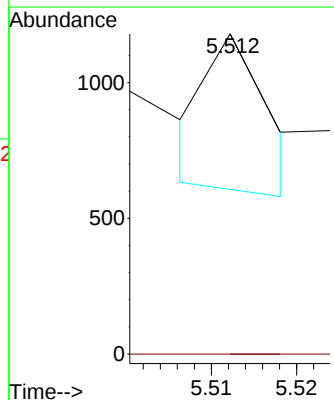
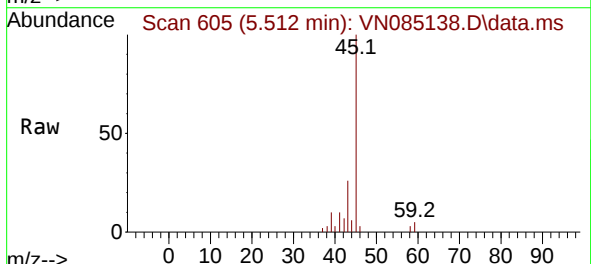
Instrument :
MSVOA_N
ClientSampleId :

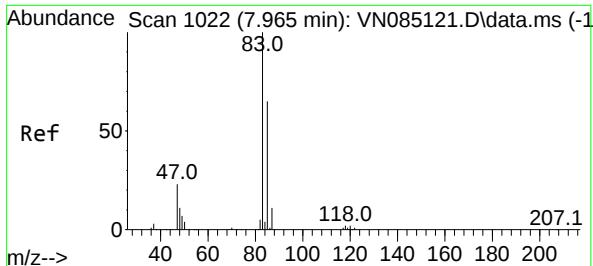
Tgt Ion: 45	Resp: 65527
Ion Ratio	Lower Upper
45 100	
43 58.2	41.9 62.9
87 27.8	24.1 36.1
59 14.5	10.0 15.0



#23
tert-Butyl Alcohol
Concen: 1.012 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

Tgt Ion: 59	Resp: 276
Ion Ratio	Lower Upper
59 100	
52 0.0	0.0 0.0





#25

Chloroform

Concen: 19.899 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085138.D

Acq: 06 Dec 2024 19:39

Instrument :

MSVOA_N

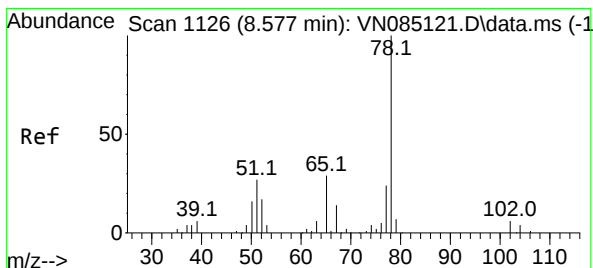
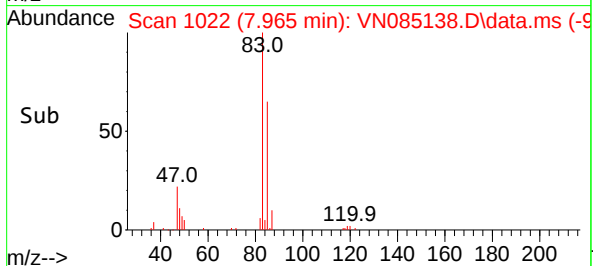
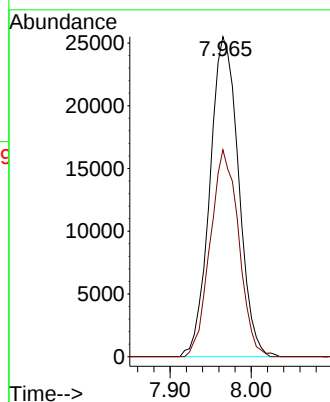
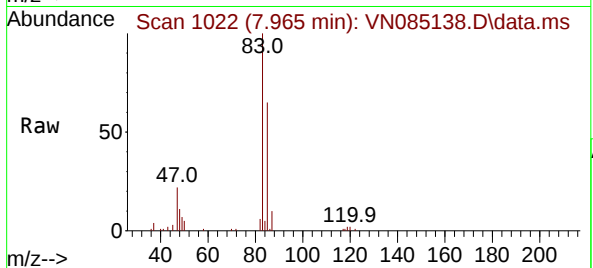
ClientSampleId :

Tgt Ion: 83 Resp: 62683

Ion Ratio Lower Upper

83 100

85 64.6 49.4 74.0



#27

1,2-Dichloroethane-d4

Concen: 31.571 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN085138.D

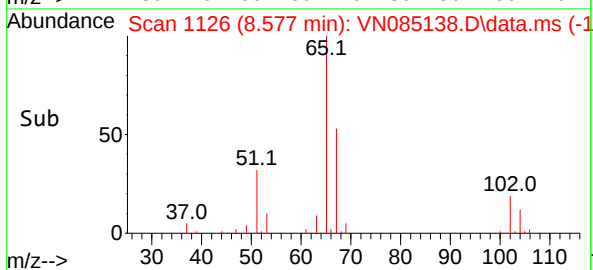
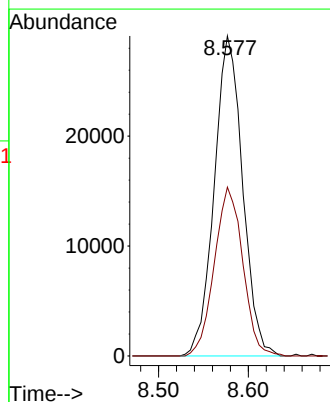
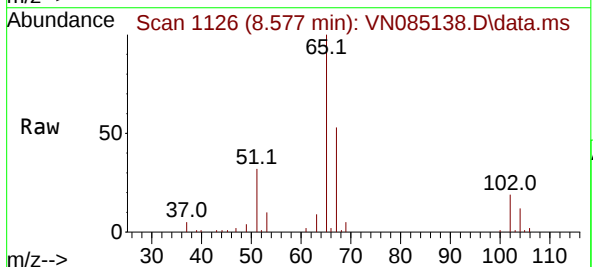
Acq: 06 Dec 2024 19:39

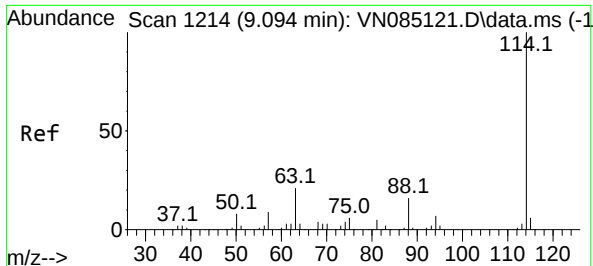
Tgt Ion: 65 Resp: 63814

Ion Ratio Lower Upper

65 100

67 53.0 39.9 59.9

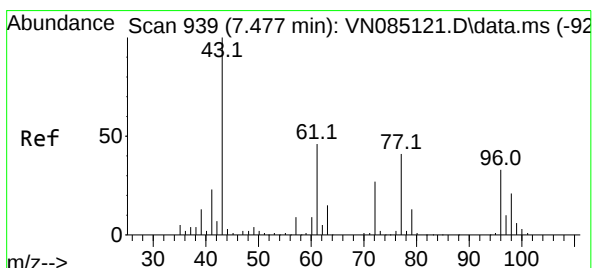
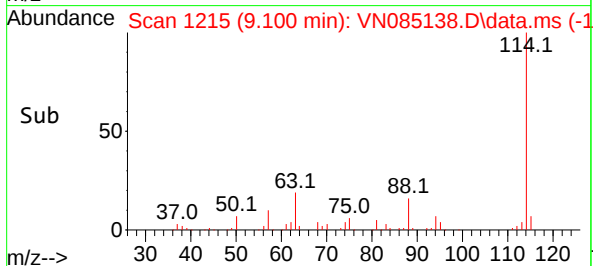
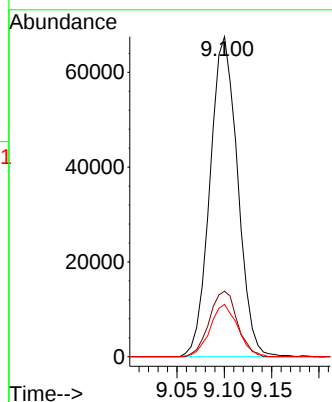
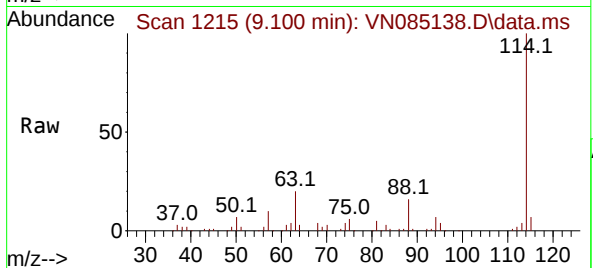




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 114
Delta R.T. 0.000 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

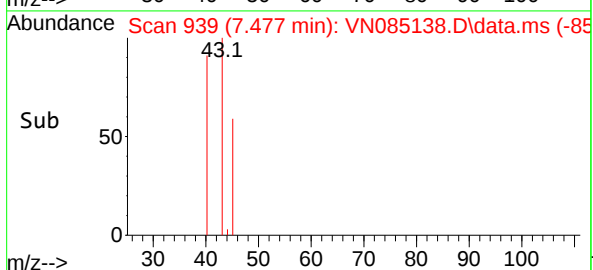
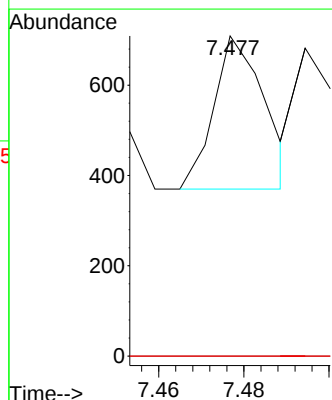
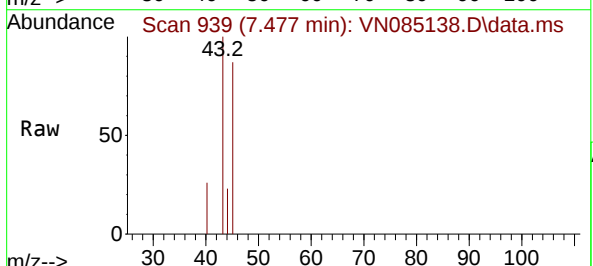
Instrument :
MSVOA_N
ClientSampleId :

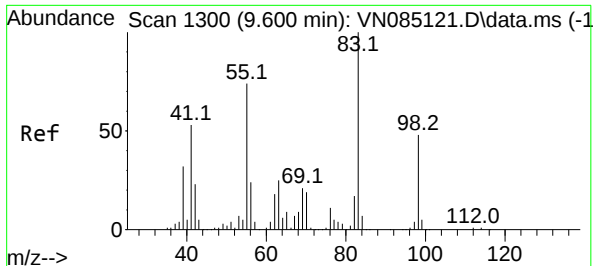
Tgt Ion:114 Resp: 137106
Ion Ratio Lower Upper
114 100
63 20.7 16.2 24.2
88 16.4 12.5 18.7



#30
2-Butanone
Concen: 0.277 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

Tgt Ion: 43 Resp: 281
Ion Ratio Lower Upper
43 100
57 0.0 6.9 10.3#
72 0.0 21.8 32.8#





#38

Methylcyclohexane

Concen: 3.051 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.282 min

Lab File: VN085138.D

Acq: 06 Dec 2024 19:39

Instrument :

MSVOA_N

ClientSampleId :

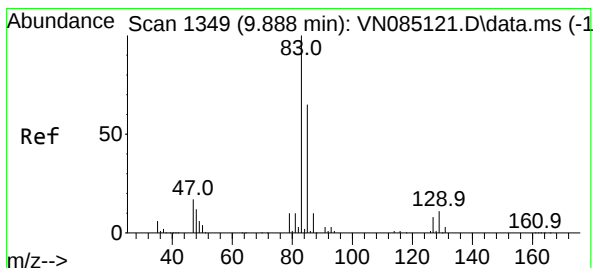
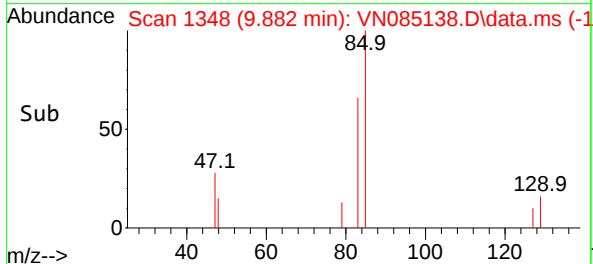
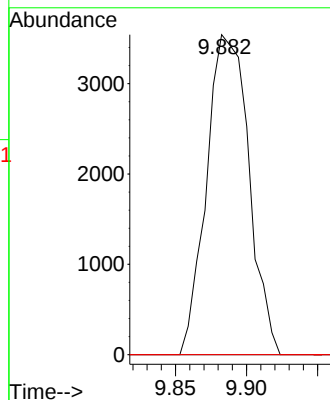
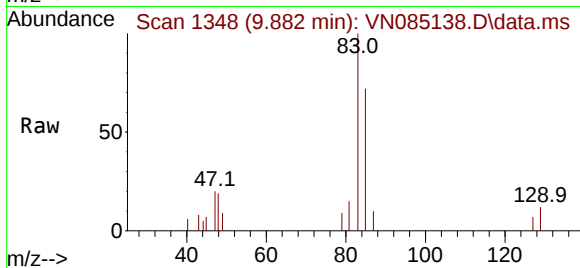
Tgt Ion: 83 Resp: 7340

Ion Ratio Lower Upper

83 100

55 0.0 41.4 124.4#

98 0.0 25.7 77.1#



#41

Bromodichloromethane

Concen: 2.843 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085138.D

Acq: 06 Dec 2024 19:39

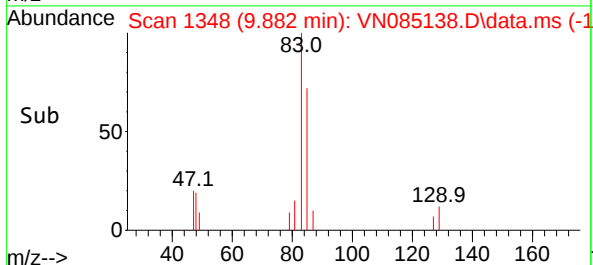
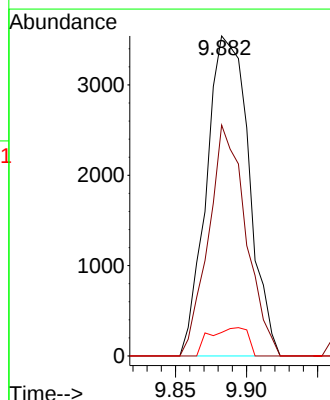
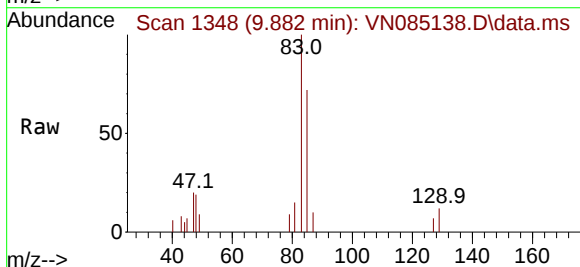
Tgt Ion: 83 Resp: 7340

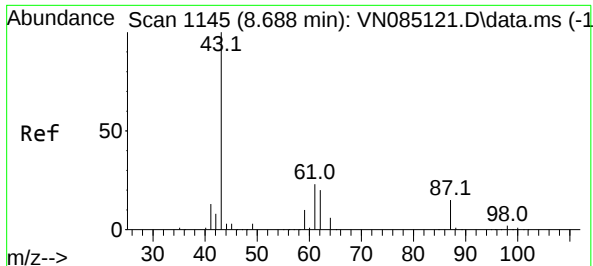
Ion Ratio Lower Upper

83 100

85 72.1 54.6 81.8

127 7.3 7.0 10.6

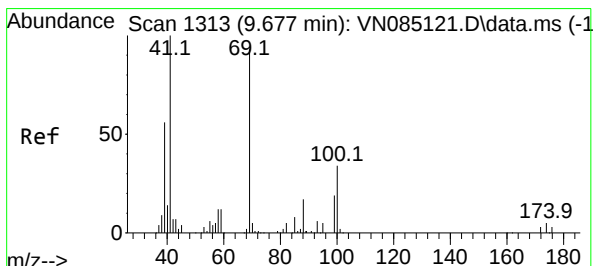
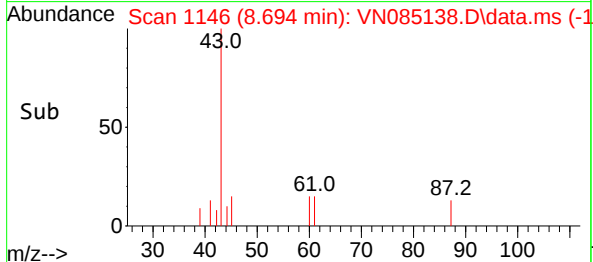
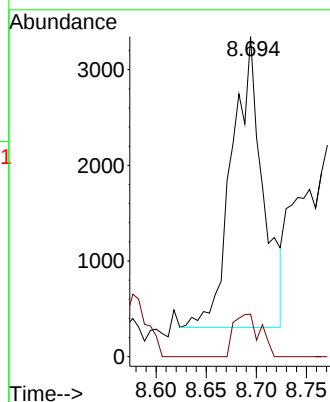
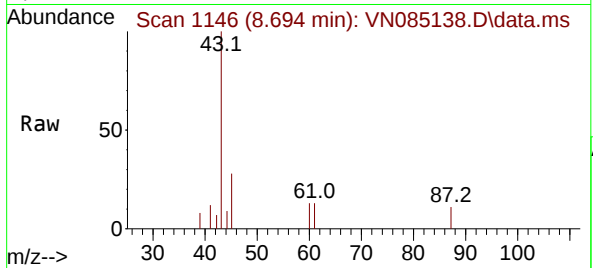




#44
Isopropyl Acetate
Concen: 1.860 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

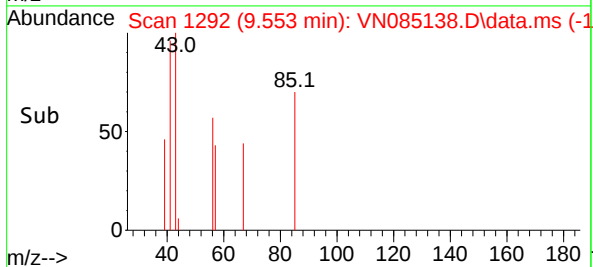
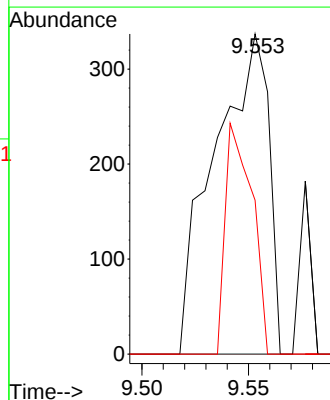
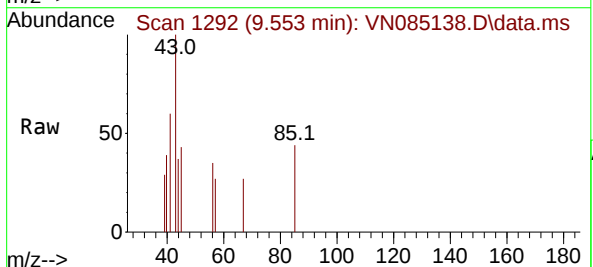
Instrument :
MSVOA_N
ClientSampleId :

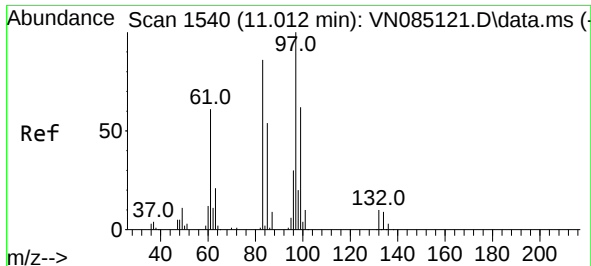
Tgt Ion: 43 Resp: 6530
Ion Ratio Lower Upper
43 100
61 9.8 21.5 32.3#



#46
Methyl methacrylate
Concen: 0.372 ug/l
RT: 9.553 min Scan# 1292
Delta R.T. -0.129 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

Tgt Ion: 41 Resp: 597
Ion Ratio Lower Upper
41 100
69 0.0 46.7 140.0#
39 48.1 28.5 85.5

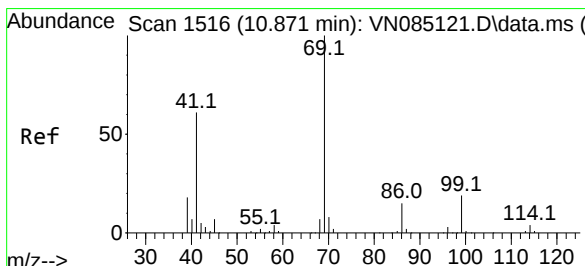
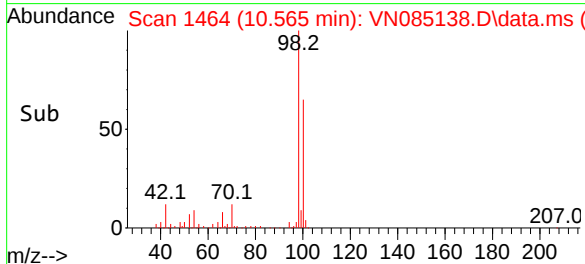
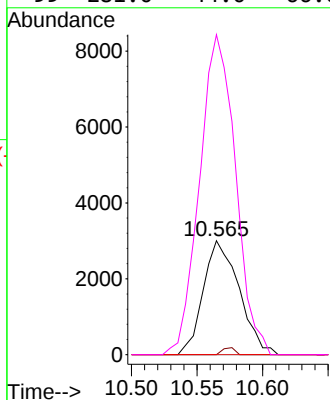
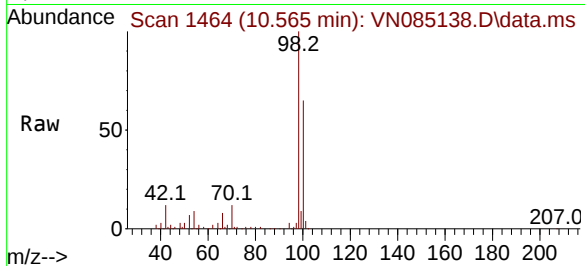




#50
1,1,2-Trichloroethane
Concen: 3.522 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.447 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

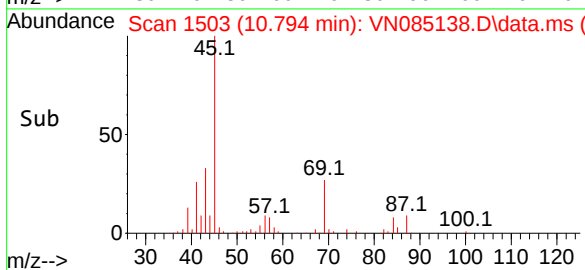
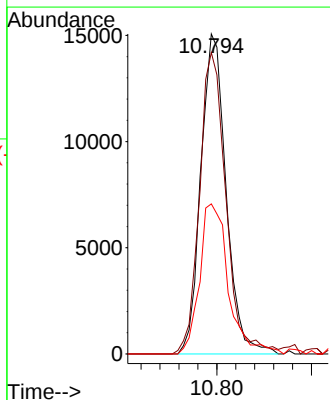
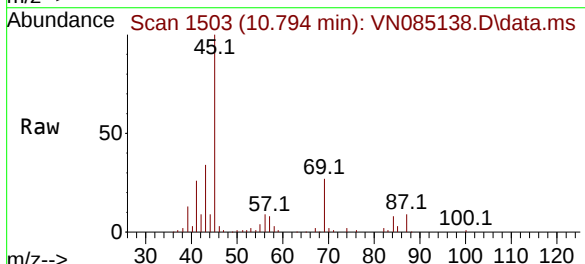
Instrument :
MSVOA_N
ClientSampleId :

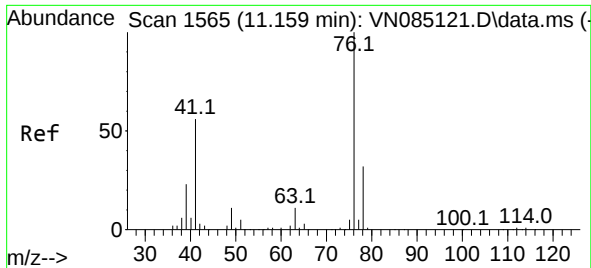
Tgt Ion: 97	Resp: 5731
Ion Ratio	Lower Upper
97 100	
83 0.0	65.8 98.8#
85 0.0	40.8 61.2#
99 281.0	44.0 66.0#



#51
Ethyl methacrylate
Concen: 11.266 ug/l
RT: 10.794 min Scan# 1503
Delta R.T. -0.076 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

Tgt Ion: 69	Resp: 27881
Ion Ratio	Lower Upper
69 100	
41 93.1	32.1 96.3
39 46.9	18.8 56.4

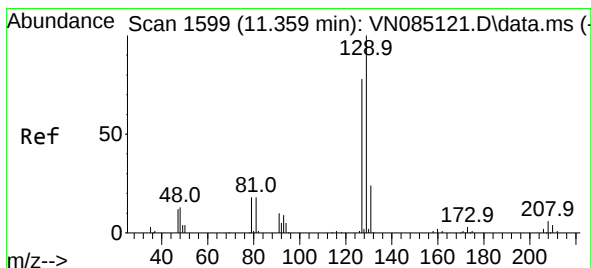
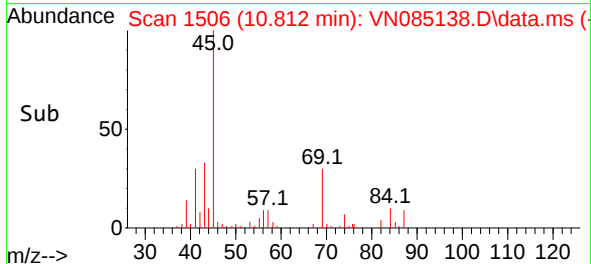
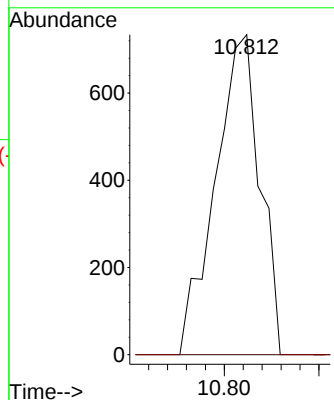
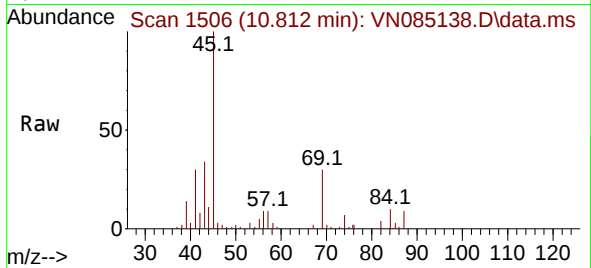




#52
1,3-Dichloropropane
Concen: 0.442 ug/l
RT: 10.812 min Scan# 1506
Delta R.T. -0.347 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

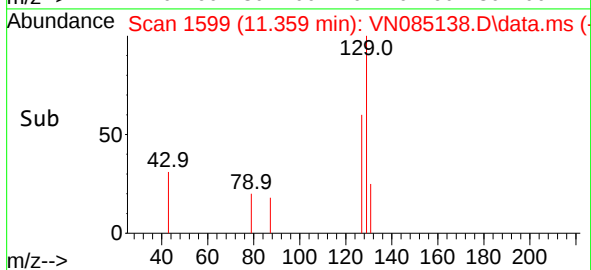
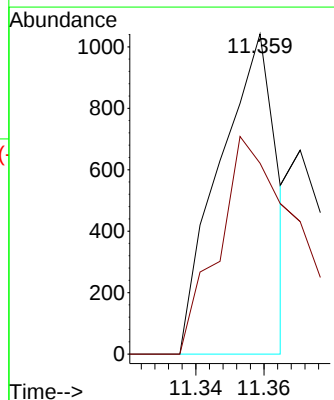
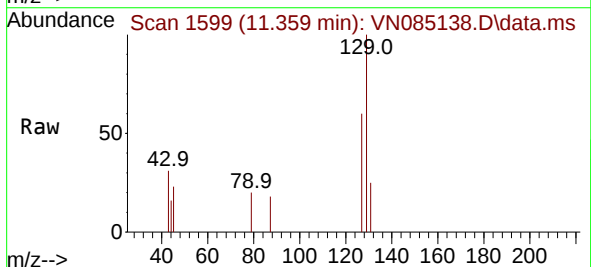
Instrument :
MSVOA_N
ClientSampleId :

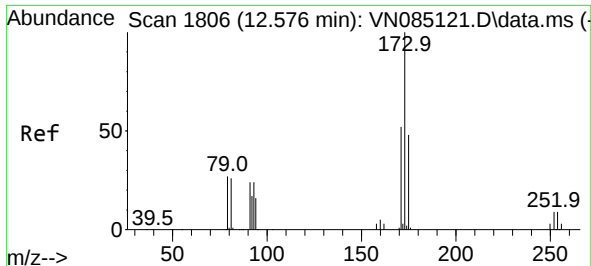
Tgt Ion: 76 Resp: 1203
Ion Ratio Lower Upper
76 100
78 0.0 0.0 65.6



#53
Dibromochloromethane
Concen: 0.615 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

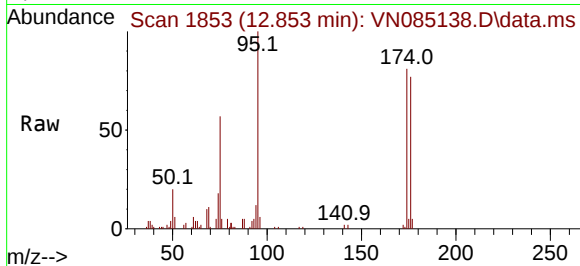
Tgt Ion: 129 Resp: 1220
Ion Ratio Lower Upper
129 100
127 88.8 37.3 111.9



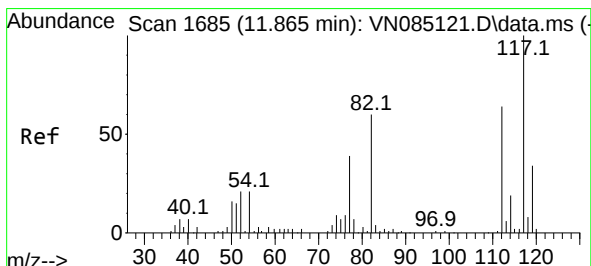
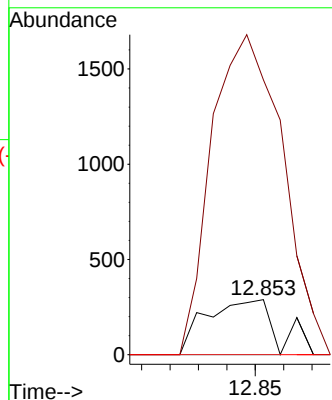
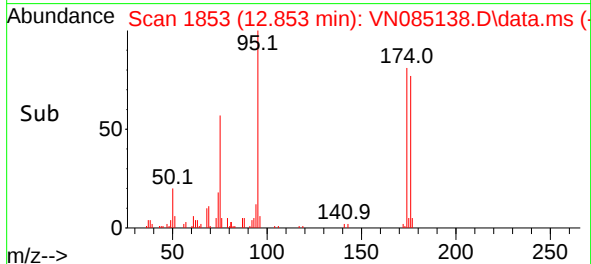


#56
Bromoform
Concen: 0.329 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.277 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

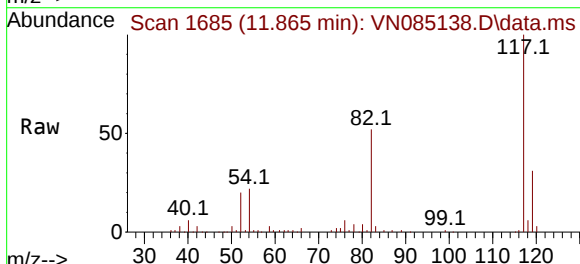
Instrument :
MSVOA_N
ClientSampleId :



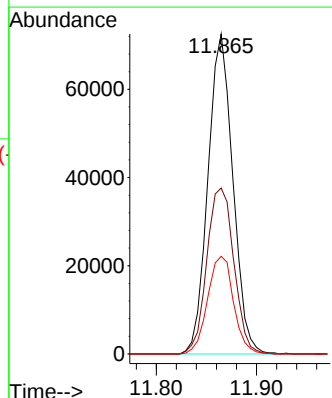
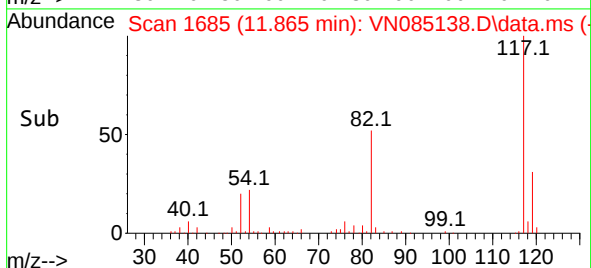
Tgt Ion:173 Resp: 438
Ion Ratio Lower Upper
173 100
175 666.7 40.2 60.2#
254 0.0 6.2 9.4#

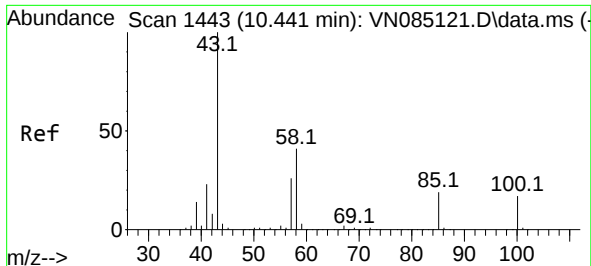


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39



Tgt Ion:117 Resp: 125124
Ion Ratio Lower Upper
117 100
82 56.3 44.2 66.4
119 31.9 25.4 38.2

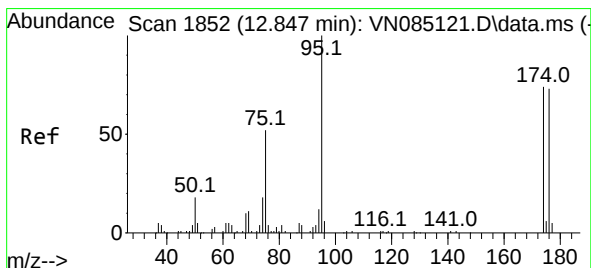
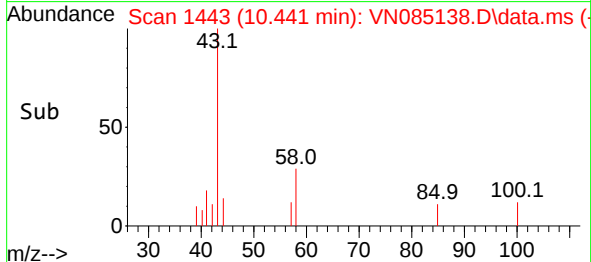
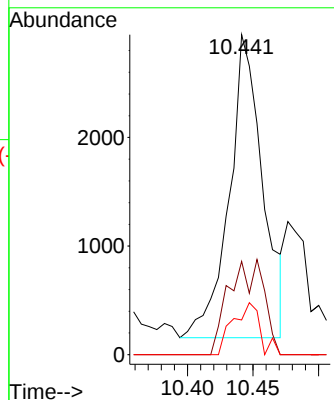
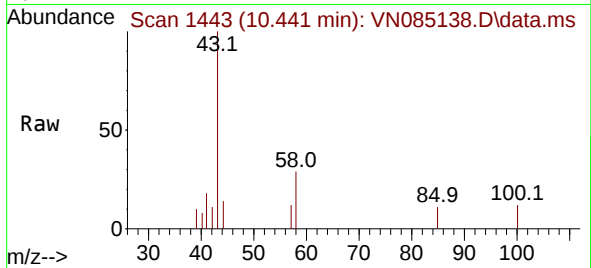




#58
4-Methyl-2-Pentanone
Concen: 2.425 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

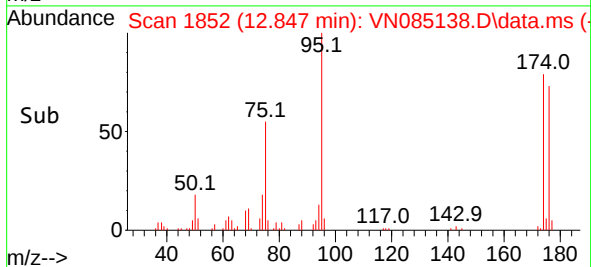
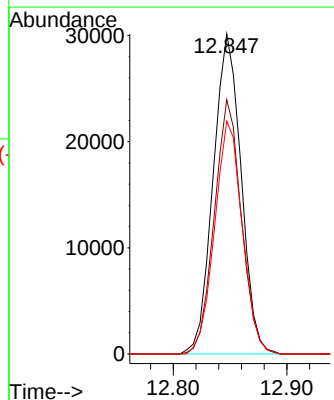
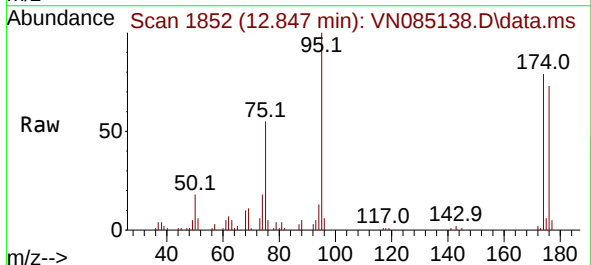
Instrument :
MSVOA_N
ClientSampleId :

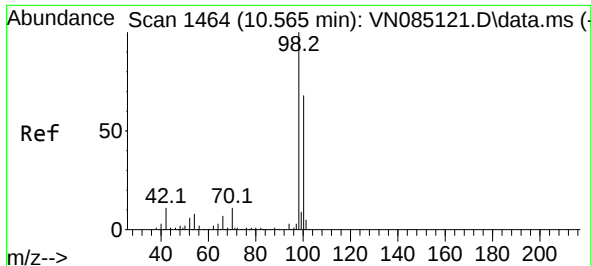
Tgt Ion: 43 Resp: 4952
Ion Ratio Lower Upper
43 100
58 20.8 31.6 47.4#
85 6.3 15.0 22.6#



#60
4-Bromofluorobenzene
Concen: 24.825 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

Tgt Ion: 95 Resp: 51396
Ion Ratio Lower Upper
95 100
174 77.1 60.3 90.5
176 72.4 57.4 86.0

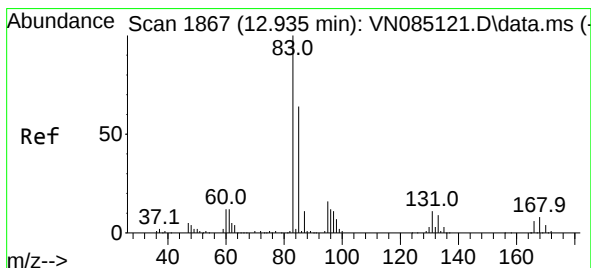
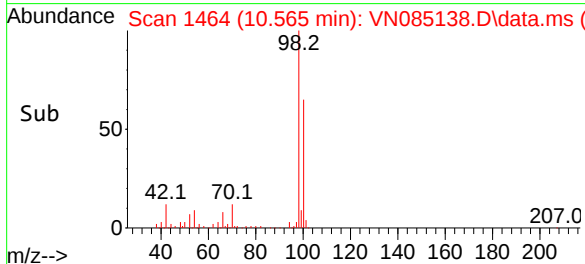
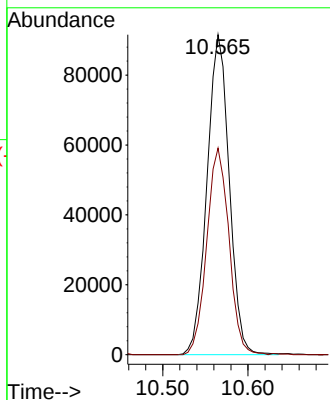
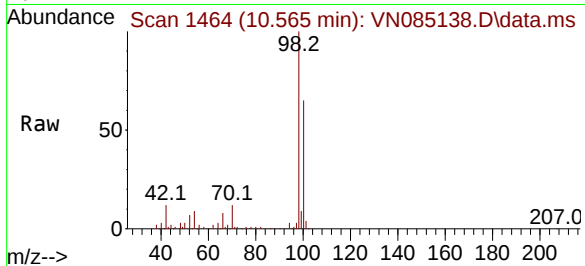




#63
Toluene-d8
Concen: 28.308 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

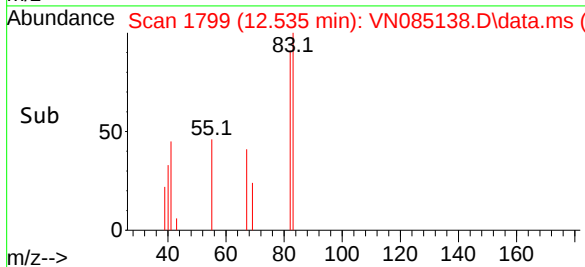
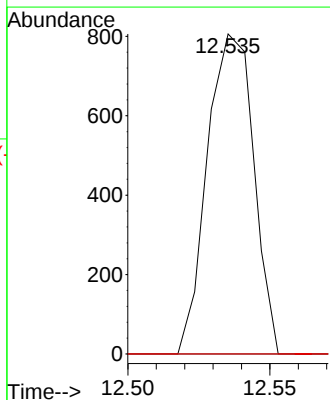
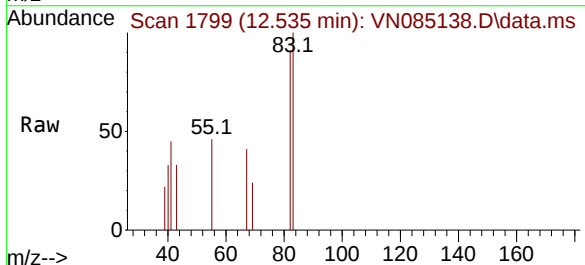
Instrument :
MSVOA_N
ClientSampleId :

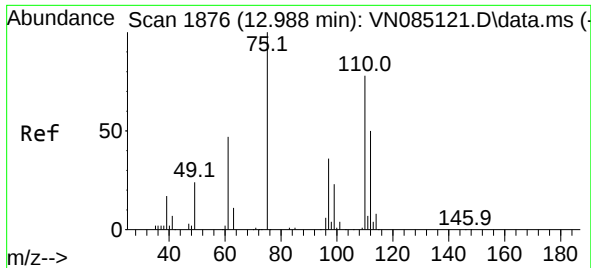
Tgt Ion: 98 Resp: 166151
Ion Ratio Lower Upper
98 100
100 64.2 52.0 78.0



#71
1,1,2,2-Tetrachloroethane
Concen: 0.418 ug/l
RT: 12.535 min Scan# 1799
Delta R.T. -0.400 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

Tgt Ion: 83 Resp: 918
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.3#
85 0.0 31.1 93.5#

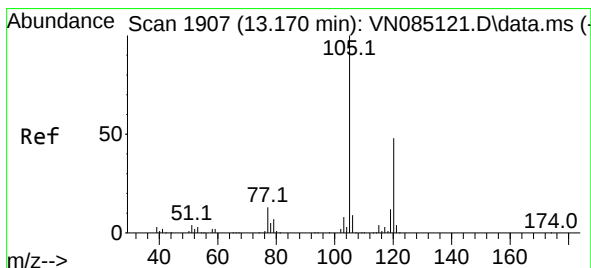
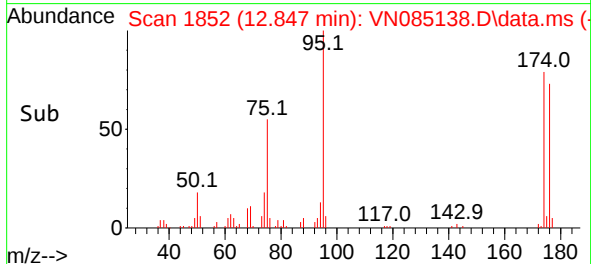
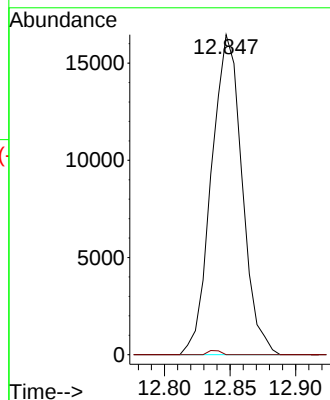
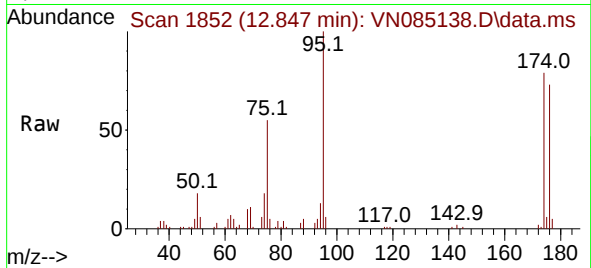




#72
 1,2,3-Trichloropropane
 Concen: 12.339 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. -0.147 min
 Lab File: VN085138.D
 Acq: 06 Dec 2024 19:39

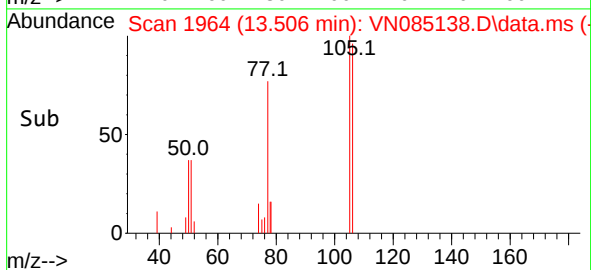
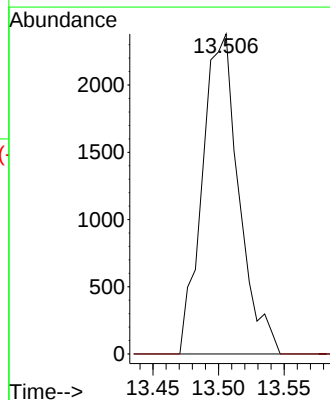
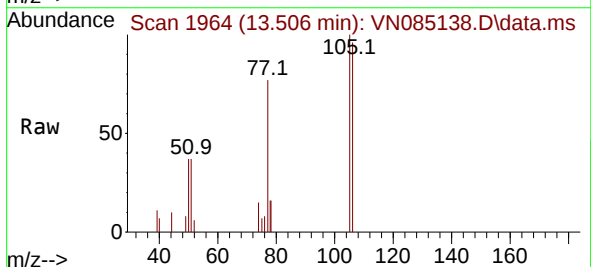
Instrument :
 MSVOA_N
 ClientSampleId :

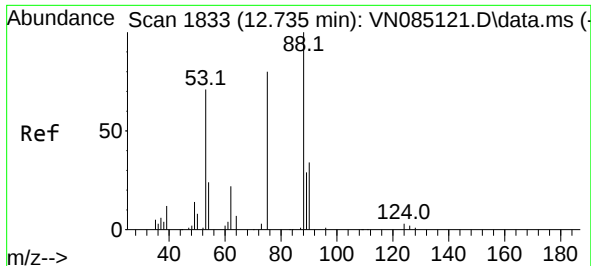
Tgt Ion: 75 Resp: 26765
 Ion Ratio Lower Upper
 75 100
 77 0.5 0.0 339.0



#76
 1,3,5-Trimethylbenzene
 Concen: 0.747 ug/l
 RT: 13.506 min Scan# 1964
 Delta R.T. 0.335 min
 Lab File: VN085138.D
 Acq: 06 Dec 2024 19:39

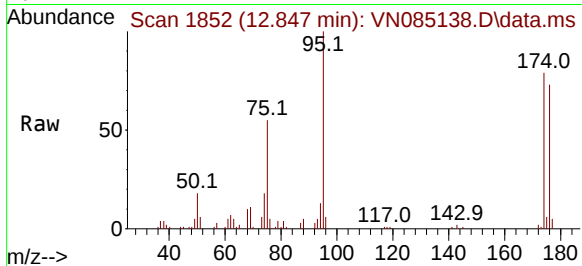
Tgt Ion:105 Resp: 4619
 Ion Ratio Lower Upper
 105 100
 120 0.0 0.0 94.4



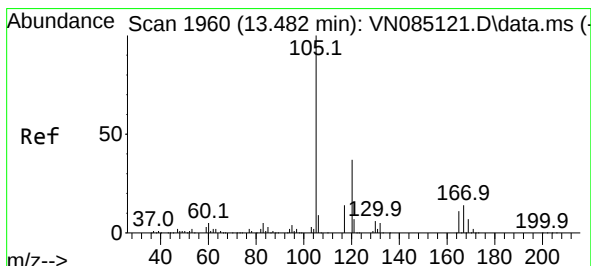
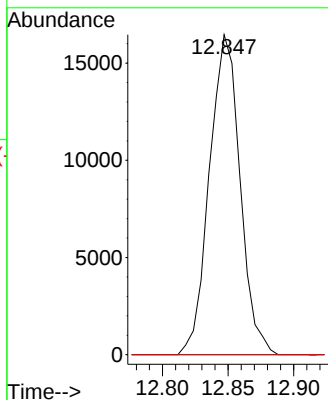
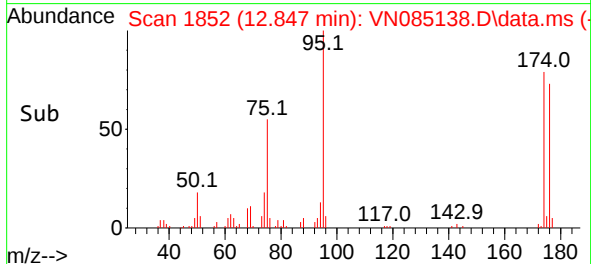


#77
t-1,4-Dichloro-2-butene
Concen: 33.958 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

Instrument :
MSVOA_N
ClientSampleId :

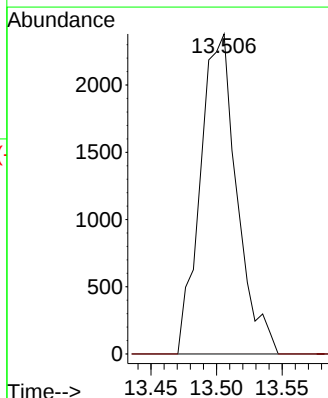
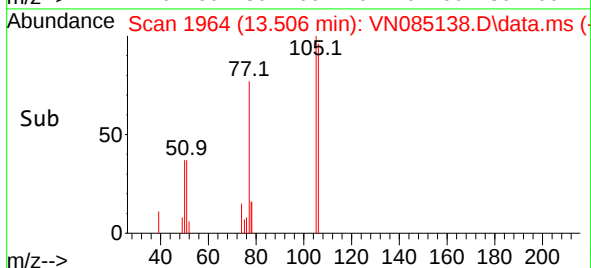
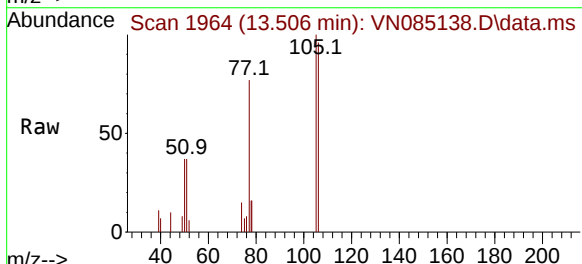


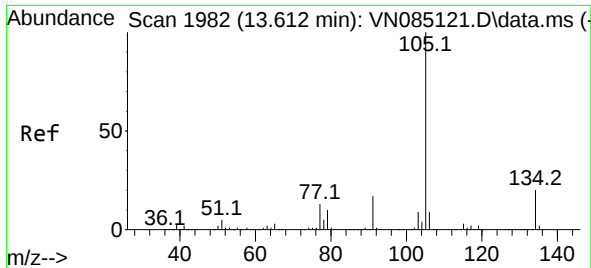
Tgt Ion: 75 Resp: 26765
Ion Ratio Lower Upper
75 100
53 0.0 49.1 147.3#
89 0.0 22.9 68.5#



#80
1,2,4-Trimethylbenzene
Concen: 0.757 ug/l
RT: 13.506 min Scan# 1964
Delta R.T. 0.030 min
Lab File: VN085138.D
Acq: 06 Dec 2024 19:39

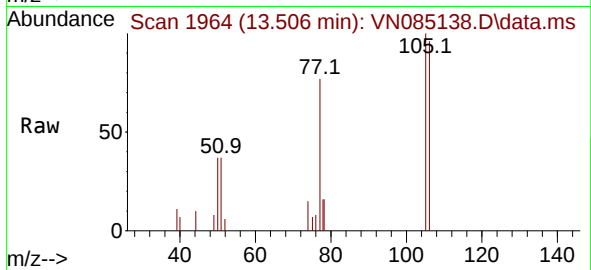
Tgt Ion: 105 Resp: 4619
Ion Ratio Lower Upper
105 100
120 0.0 0.0 87.4





#81
 sec-Butylbenzene
 Concen: 0.640 ug/l
 RT: 13.506 min Scan# 1982
 Delta R.T. -0.106 min
 Lab File: VN085138.D
 Acq: 06 Dec 2024 19:39

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:105 Resp: 4619
 Ion Ratio Lower Upper
 105 100
 134 0.0 0.0 38.0

