

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091224\
 Data File : VN083851.D
 Acq On : 13 Sep 2024 04:13
 Operator : JC\MD
 Sample : P3957-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW203D-20240909

Quant Time: Sep 13 06:40:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 2024
 Response via : Initial Calibration

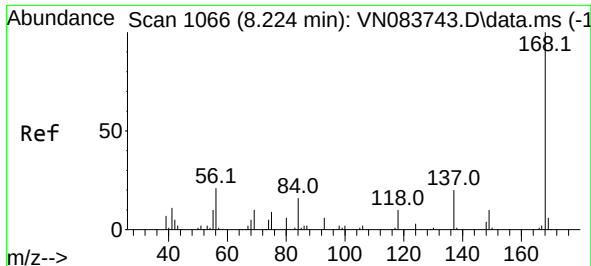
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	117445	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	248633	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	276381	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136729	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	96976	54.761	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.520%			
35) Dibromofluoromethane	8.165	113	76158	47.846	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.700%			
50) Toluene-d8	10.565	98	281013	51.069	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.140%			
62) 4-Bromofluorobenzene	12.847	95	136415	60.088	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 120.180%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	589	Below Cal	#	41
5) Bromomethane	2.906	94	248	0.289	ug/l #	70
6) Chloroethane	3.071	64	353	0.337	ug/l #	45
12) 1,1-Dichloroethene	4.330	96	1193	0.939	ug/l	85
16) Acetone	4.430	43	608	0.856	ug/l #	45
18) Methyl Acetate	5.047	43	1631	Below Cal	#	52
19) Methyl tert-butyl Ether	5.795	73	1606	0.349	ug/l #	55
21) trans-1,2-Dichloroethene	5.777	96	317	0.233	ug/l #	31
24) 1,1-Dichloroethane	6.559	63	4418	1.646	ug/l #	82
27) cis-1,2-Dichloroethene	7.489	96	5603	3.467	ug/l	92
30) Chloroform	7.971	83	1372	0.481	ug/l	87
31) Cyclohexane	8.212	56	3090	1.207	ug/l #	45
32) 1,1,1-Trichloroethane	8.171	97	1531	0.584	ug/l #	38
36) 1,1-Dichloropropene	8.224	75	10761	4.492	ug/l #	50
38) Carbon Tetrachloride	8.224	117	12809	4.713	ug/l #	17
43) Isopropyl Acetate	8.665	43	7564	1.919	ug/l #	57
44) Trichloroethene	9.347	130	26918	16.120	ug/l	94
51) 4-Methyl-2-Pentanone	10.565	43	1570	0.732	ug/l #	1
53) t-1,3-Dichloropropene	10.829	75	661	0.247	ug/l #	42
60) Dibromochloromethane	11.100	129	1519	0.824	ug/l #	10
64) Tetrachloroethene	11.112	164	1522	0.828	ug/l #	70
70) Styrene	12.412	104	1956	0.304	ug/l	94
76) 1,2,3-Trichloropropane	12.847	75	77260	28.004	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	77260	73.344	ug/l #	9
87) 1,3-Dichlorobenzene	13.735	146	2377	0.495	ug/l	95
88) 1,4-Dichlorobenzene	13.735	146	2377	0.489	ug/l	96
95) Naphthalene	15.641	128	4082	0.539	ug/l #	96

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

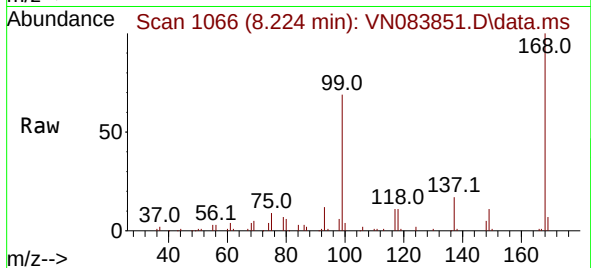
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration



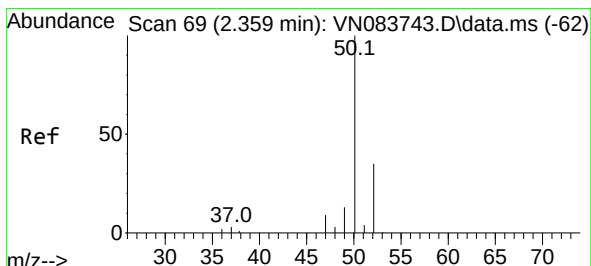
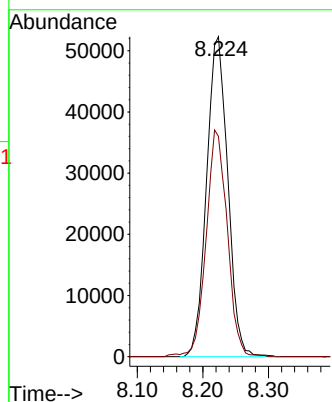
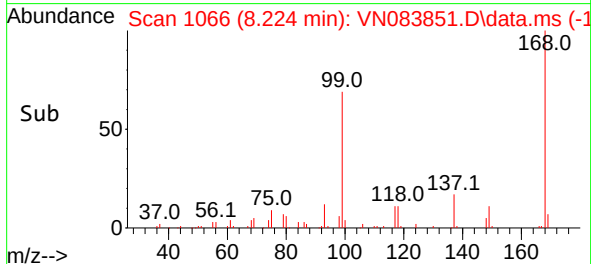


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083851.D
Acq: 13 Sep 2024 04:13

Instrument :
MSVOA_N
ClientSampleId :
MW203D-20240909

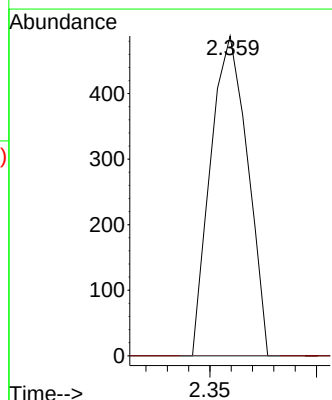
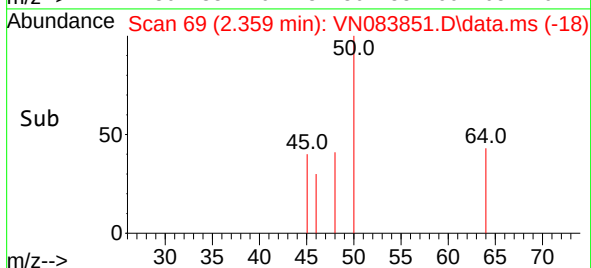
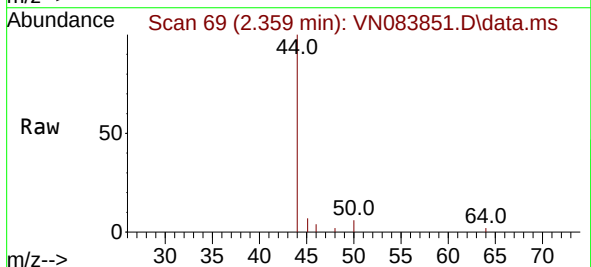


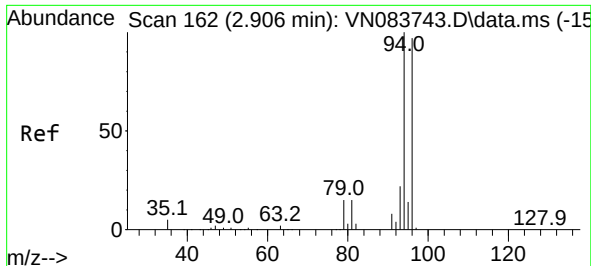
Tgt Ion:168 Resp: 117445
Ion Ratio Lower Upper
168 100
99 68.9 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083851.D
Acq: 13 Sep 2024 04:13

Tgt Ion: 50 Resp: 589
Ion Ratio Lower Upper
50 100
52 0.0 27.2 40.8#

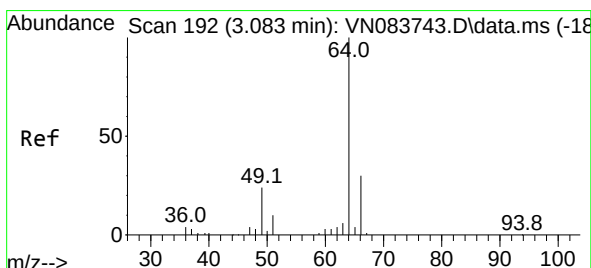
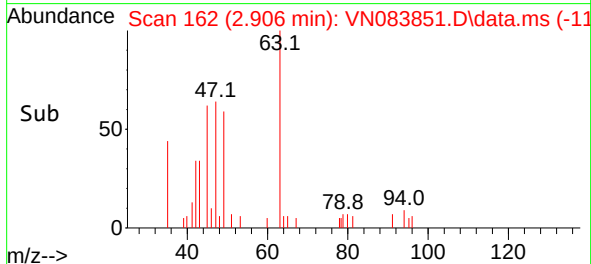
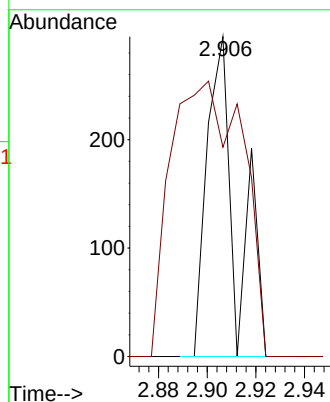
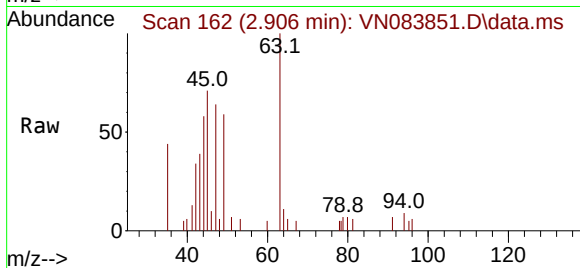




#5
Bromomethane
Concen: 0.289 ug/l
RT: 2.906 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083851.D
Acq: 13 Sep 2024 04:13

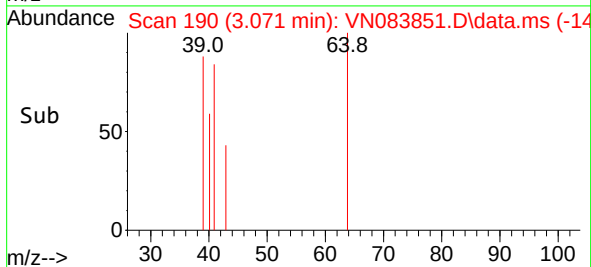
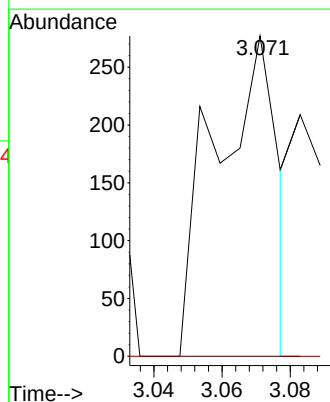
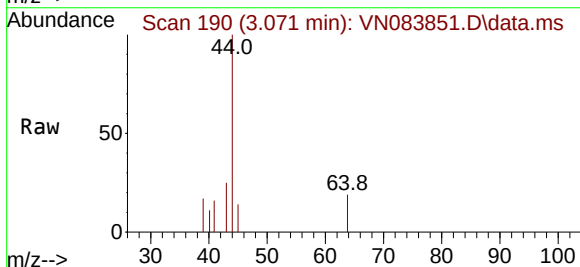
Instrument :
MSVOA_N
ClientSampleId :
MW203D-20240909

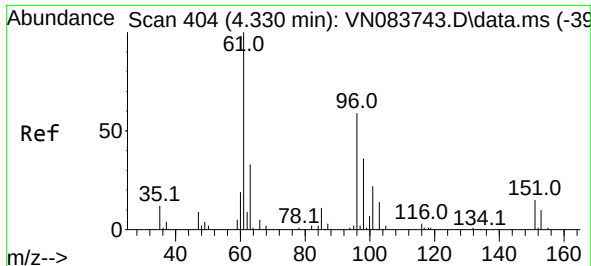
Tgt Ion: 94 Resp: 248
Ion Ratio Lower Upper
94 100
96 65.4 76.0 114.0#



#6
Chloroethane
Concen: 0.337 ug/l
RT: 3.071 min Scan# 190
Delta R.T. -0.012 min
Lab File: VN083851.D
Acq: 13 Sep 2024 04:13

Tgt Ion: 64 Resp: 353
Ion Ratio Lower Upper
64 100
66 0.0 23.9 35.9#





#12

1,1-Dichloroethene

Concen: 0.939 ug/l

RT: 4.330 min Scan# 404

Delta R.T. 0.000 min

Lab File: VN083851.D

Acq: 13 Sep 2024 04:13

Instrument :

MSVOA_N

ClientSampleId :

MW203D-20240909

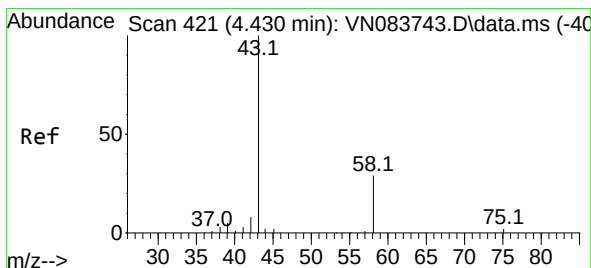
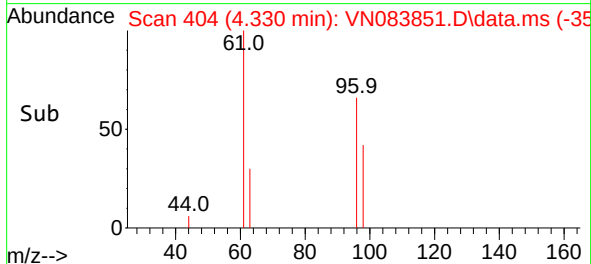
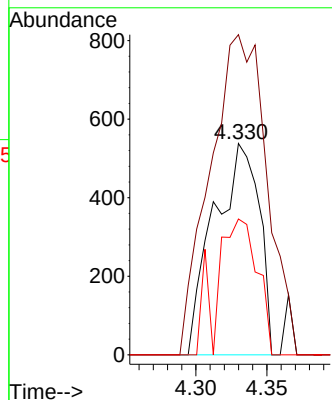
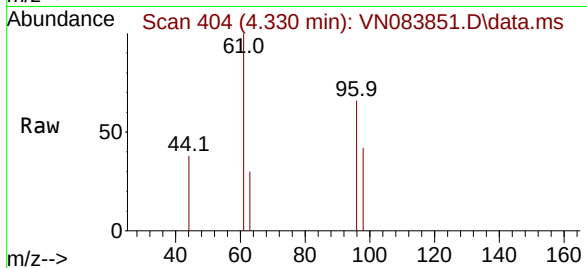
Tgt Ion: 96 Resp: 1193

Ion Ratio Lower Upper

96 100

61 151.5 143.4 215.0

98 64.3 52.7 79.1



#16

Acetone

Concen: 0.856 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.000 min

Lab File: VN083851.D

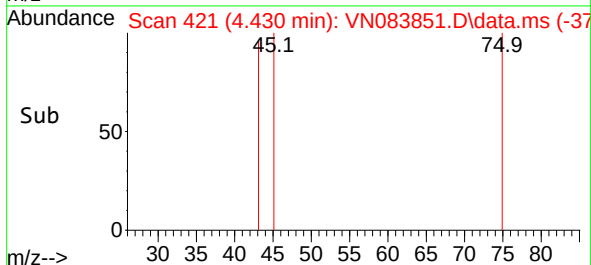
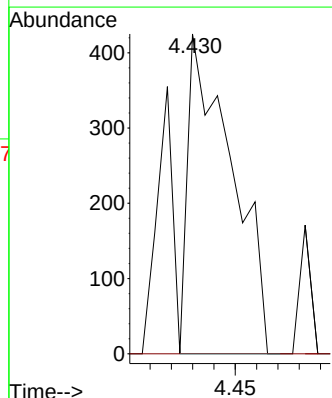
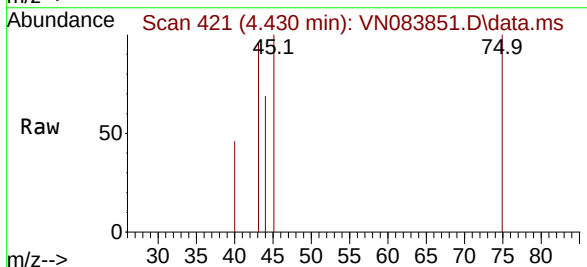
Acq: 13 Sep 2024 04:13

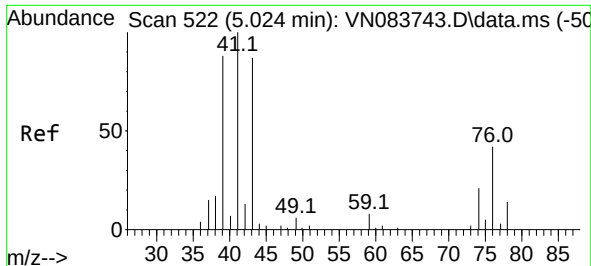
Tgt Ion: 43 Resp: 608

Ion Ratio Lower Upper

43 100

58 0.0 23.7 35.5#

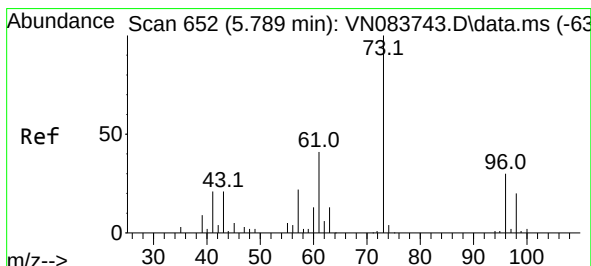
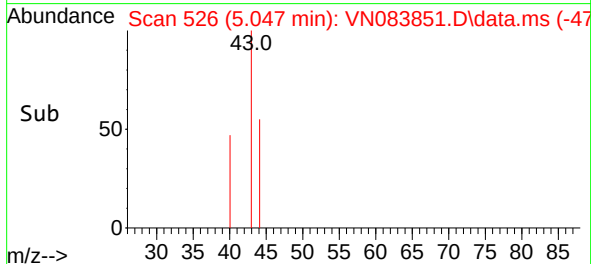
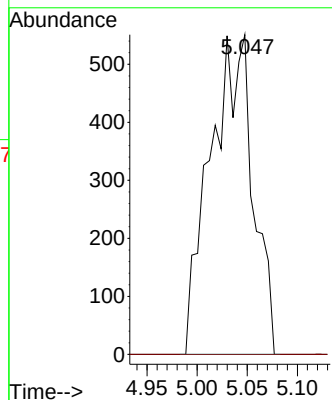
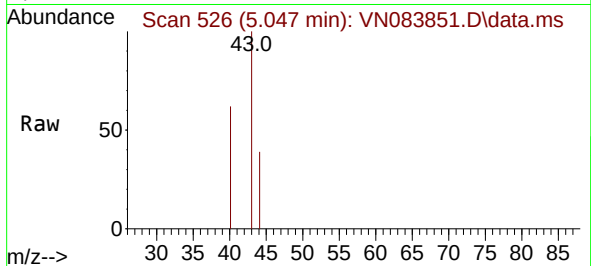




#18
Methyl Acetate
Concen: Below Cal
RT: 5.047 min Scan# 51
Delta R.T. 0.023 min
Lab File: VN083851.D
Acq: 13 Sep 2024 04:13

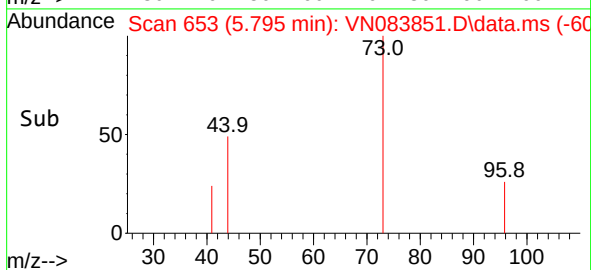
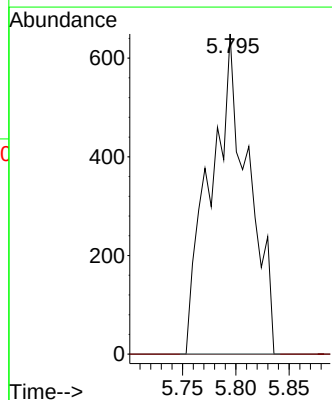
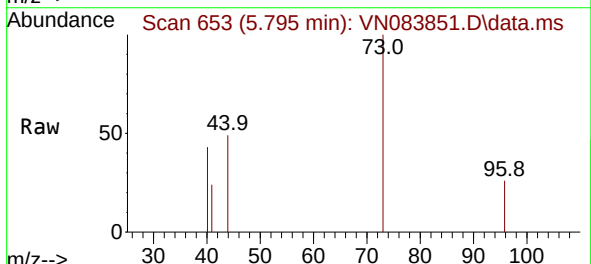
Instrument :
MSVOA_N
ClientSampleId :
MW203D-20240909

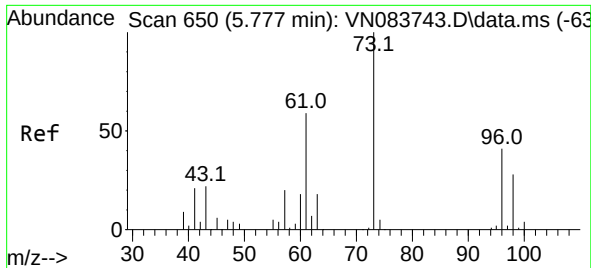
Tgt Ion: 43 Resp: 1631
Ion Ratio Lower Upper
43 100
74 0.0 19.0 28.4#



#19
Methyl tert-butyl Ether
Concen: 0.349 ug/l
RT: 5.795 min Scan# 653
Delta R.T. 0.006 min
Lab File: VN083851.D
Acq: 13 Sep 2024 04:13

Tgt Ion: 73 Resp: 1606
Ion Ratio Lower Upper
73 100
57 0.0 17.0 25.6#

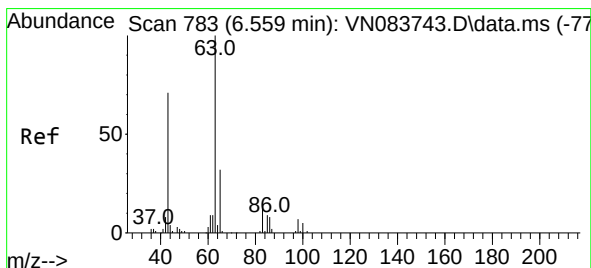
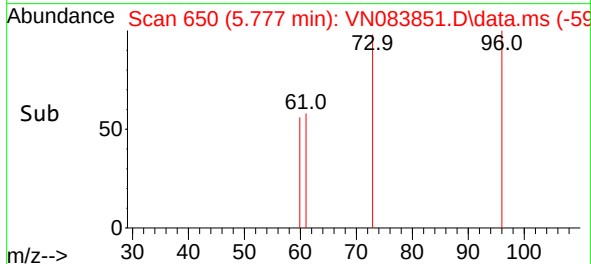
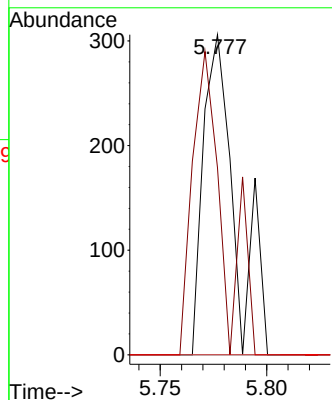
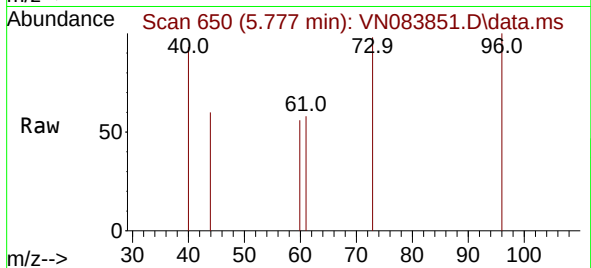




#21
trans-1,2-Dichloroethene
Concen: 0.233 ug/l
RT: 5.777 min Scan# 611
Delta R.T. 0.000 min
Lab File: VN083851.D
Acq: 13 Sep 2024 04:13

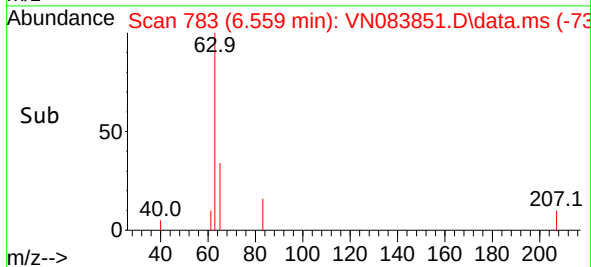
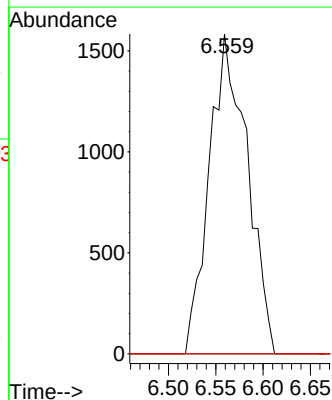
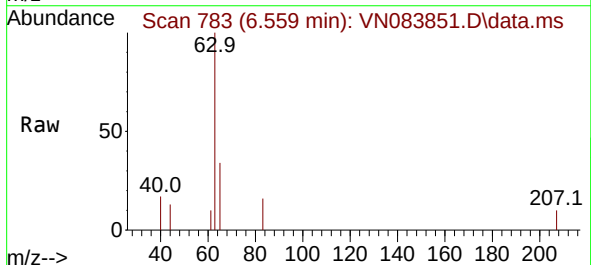
Instrument :
MSVOA_N
ClientSampleId :
MW203D-20240909

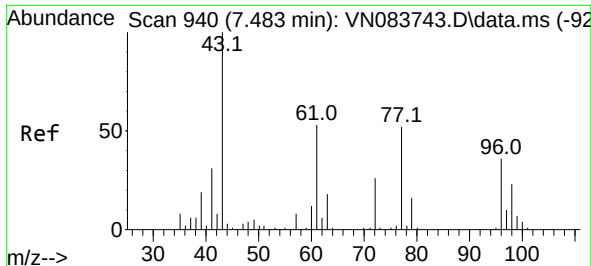
Tgt Ion: 96 Resp: 317
Ion Ratio Lower Upper
96 100
61 58.5 106.0 159.0#
98 0.0 52.2 78.2#



#24
1,1-Dichloroethane
Concen: 1.646 ug/l
RT: 6.559 min Scan# 783
Delta R.T. 0.000 min
Lab File: VN083851.D
Acq: 13 Sep 2024 04:13

Tgt Ion: 63 Resp: 4418
Ion Ratio Lower Upper
63 100
98 0.0 3.5 10.4#
100 0.0 2.5 7.5#

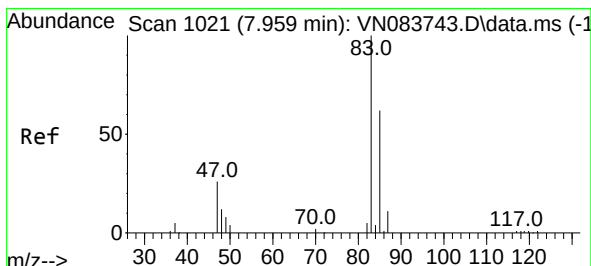
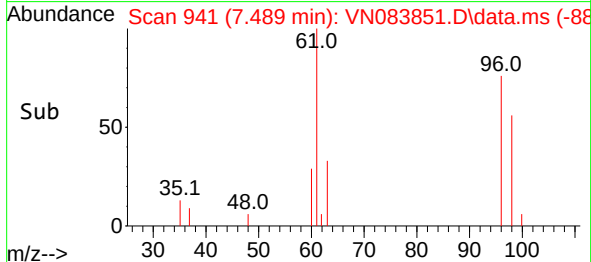
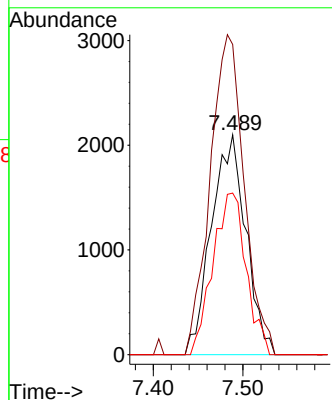
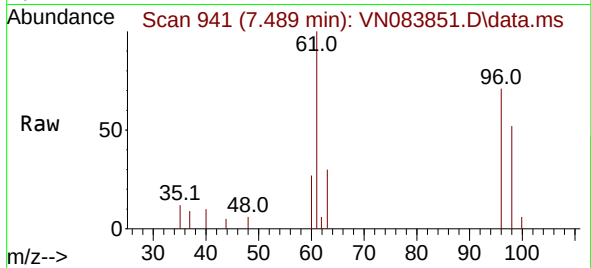




#27
 cis-1,2-Dichloroethene
 Concen: 3.467 ug/l
 RT: 7.489 min Scan# 941
 Delta R.T. 0.006 min
 Lab File: VN083851.D
 Acq: 13 Sep 2024 04:13

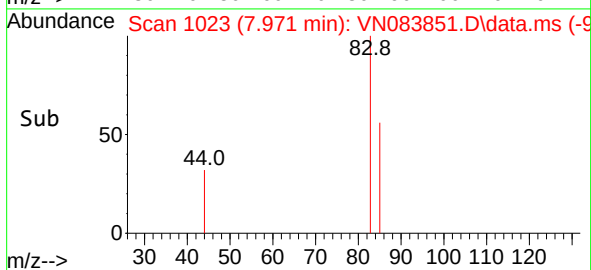
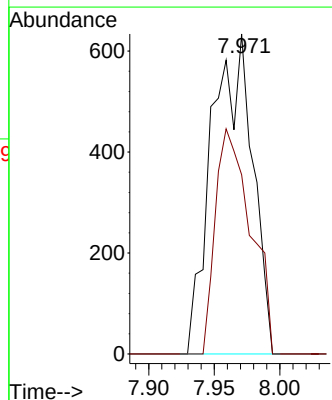
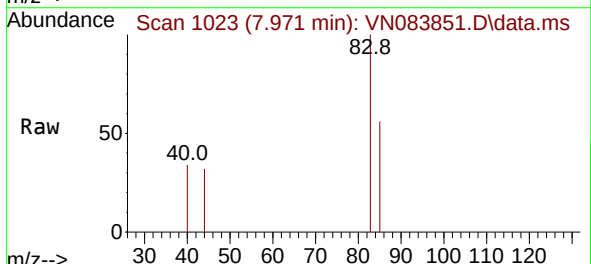
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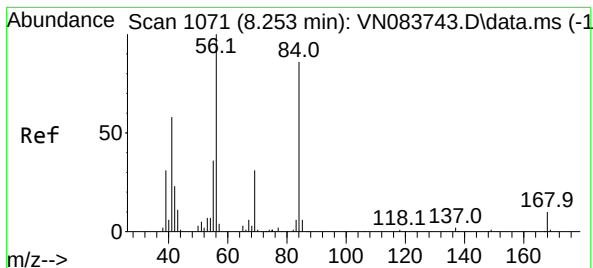
Tgt Ion: 96 Resp: 5603
 Ion Ratio Lower Upper
 96 100
 61 143.9 0.0 306.2
 98 70.9 0.0 128.6



#30
 Chloroform
 Concen: 0.481 ug/l
 RT: 7.971 min Scan# 1023
 Delta R.T. 0.012 min
 Lab File: VN083851.D
 Acq: 13 Sep 2024 04:13

Tgt Ion: 83 Resp: 1372
 Ion Ratio Lower Upper
 83 100
 85 56.0 52.8 79.2





#31

Cyclohexane

Concen: 1.207 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.041 min

Lab File: VN083851.D

Acq: 13 Sep 2024 04:13

Instrument :

MSVOA_N

ClientSampleId :

MW203D-20240909

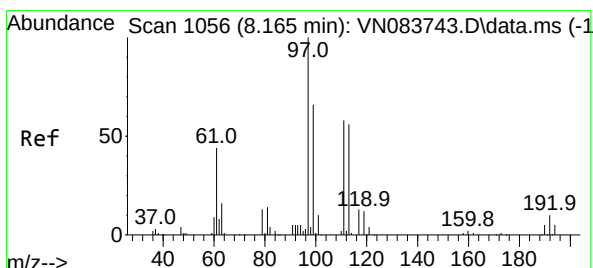
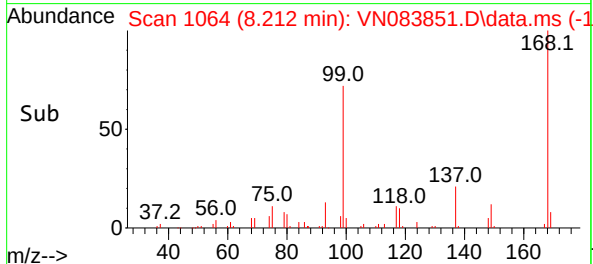
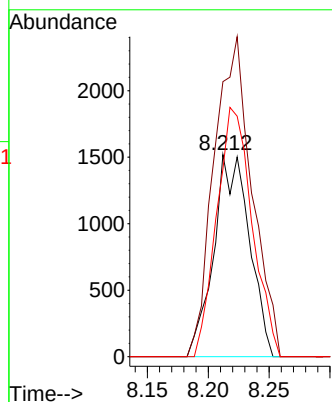
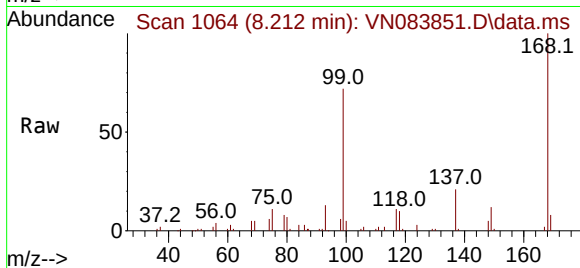
Tgt Ion: 56 Resp: 3090

Ion Ratio Lower Upper

56 100

69 136.1 26.9 40.3#

84 92.8 69.2 103.8



#32

1,1,1-Trichloroethane

Concen: 0.584 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN083851.D

Acq: 13 Sep 2024 04:13

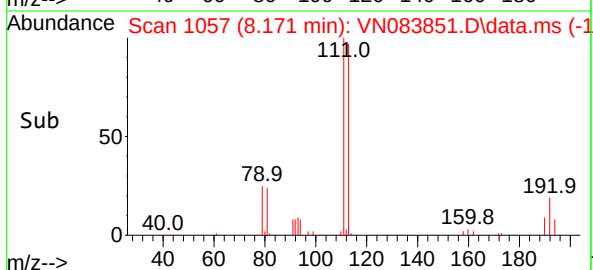
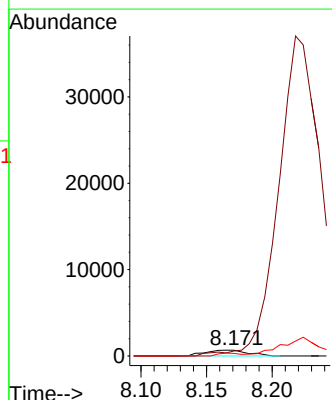
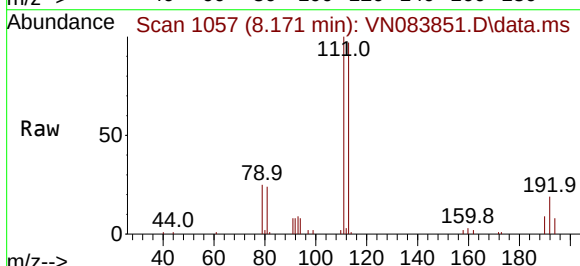
Tgt Ion: 97 Resp: 1531

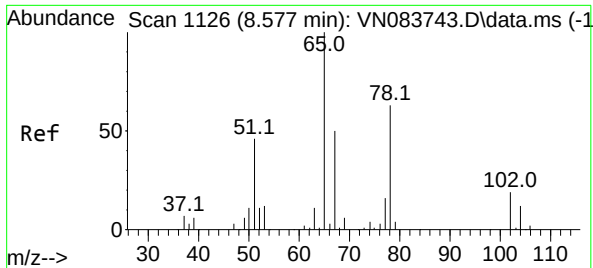
Ion Ratio Lower Upper

97 100

99 0.0 52.3 78.5#

61 24.5 38.2 57.2#





#33

1,2-Dichloroethane-d4

Concen: 54.761 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN083851.D

Acq: 13 Sep 2024 04:13

Instrument :

MSVOA_N

ClientSampleId :

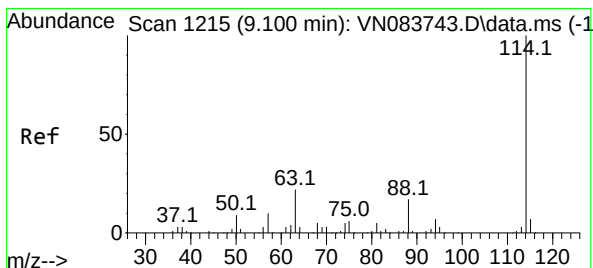
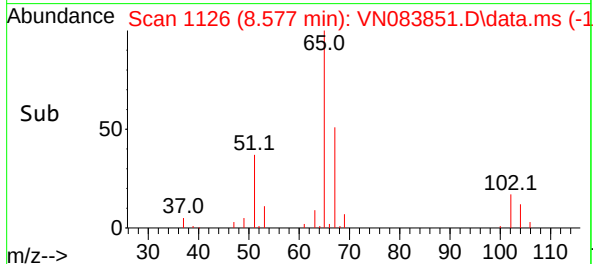
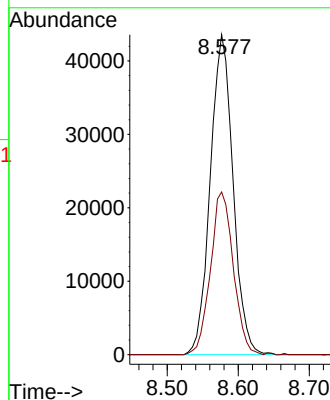
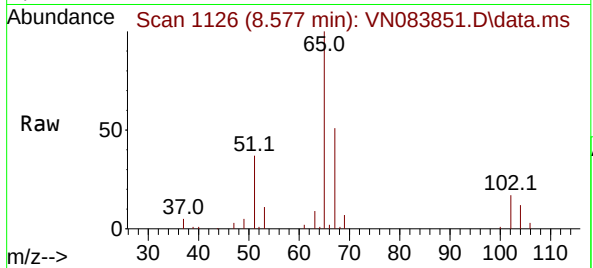
MW203D-20240909

Tgt Ion: 65 Resp: 96976

Ion Ratio Lower Upper

65 100

67 51.0 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083851.D

Acq: 13 Sep 2024 04:13

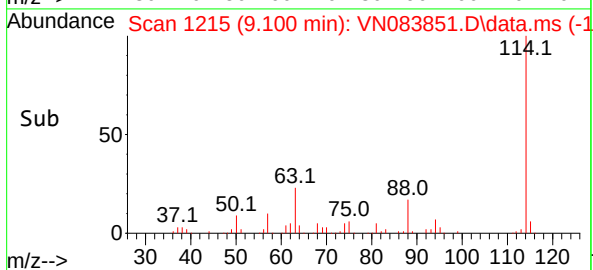
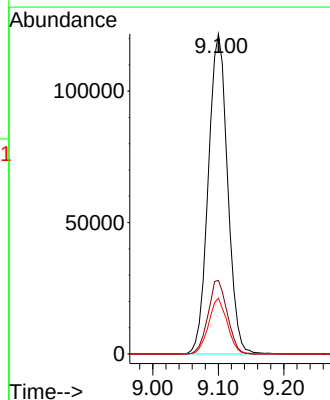
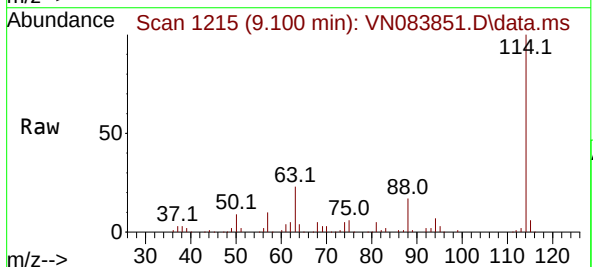
Tgt Ion: 114 Resp: 248633

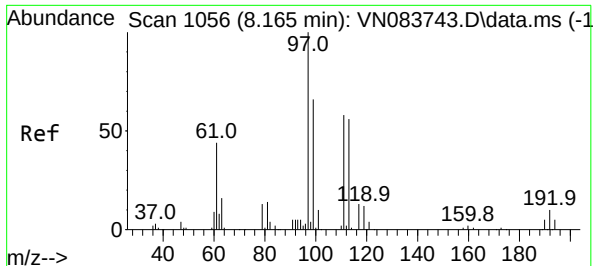
Ion Ratio Lower Upper

114 100

63 23.0 0.0 43.4

88 17.5 0.0 32.6





#35

Dibromofluoromethane

Concen: 47.846 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083851.D

Acq: 13 Sep 2024 04:13

Instrument :

MSVOA_N

ClientSampleId :

MW203D-20240909

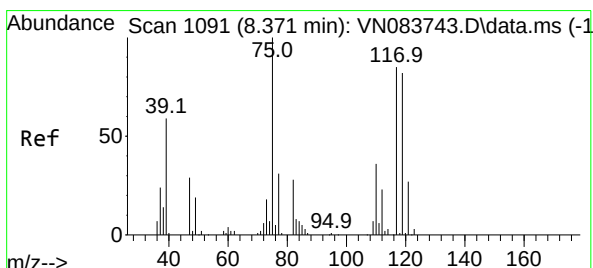
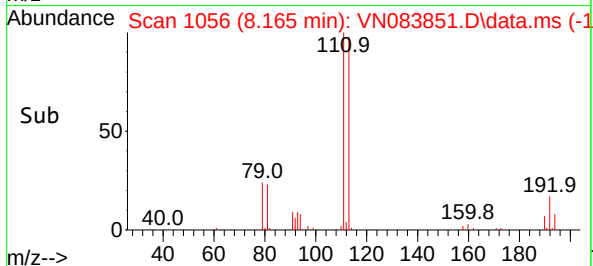
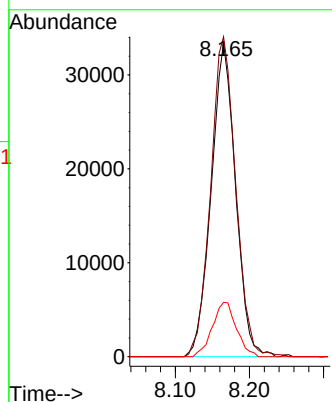
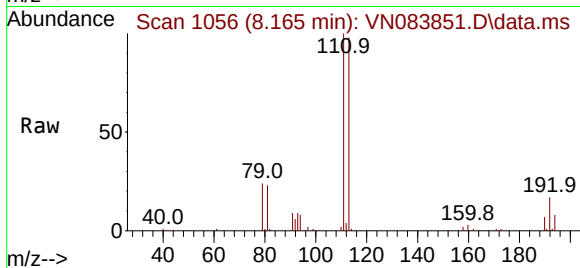
Tgt Ion:113 Resp: 76158

Ion Ratio Lower Upper

113 100

111 104.9 82.6 124.0

192 17.1 14.3 21.5



#36

1,1-Dichloropropene

Concen: 4.492 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN083851.D

Acq: 13 Sep 2024 04:13

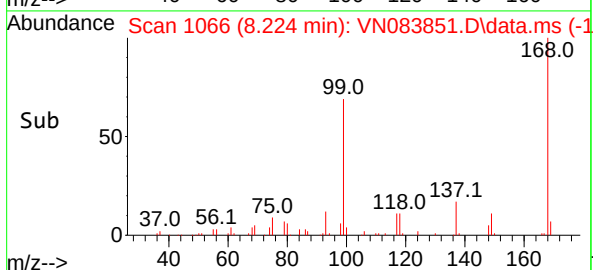
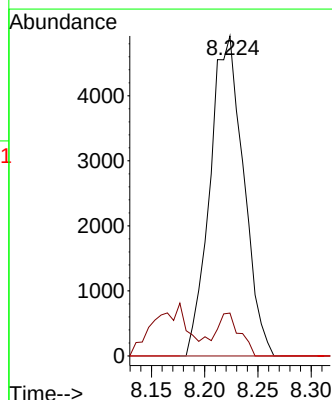
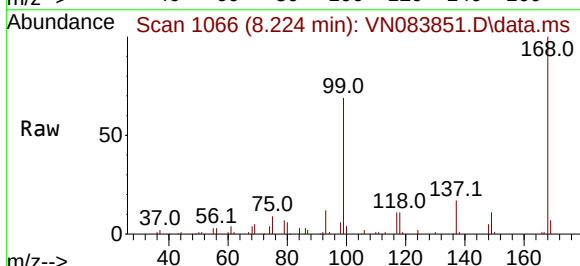
Tgt Ion: 75 Resp: 10761

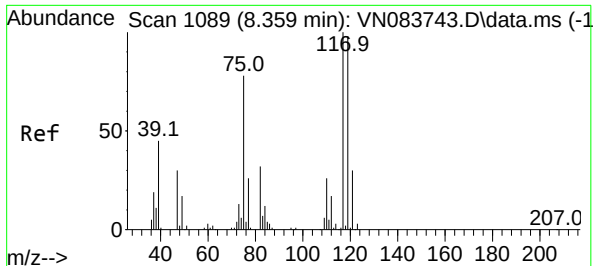
Ion Ratio Lower Upper

75 100

110 8.6 16.7 50.1#

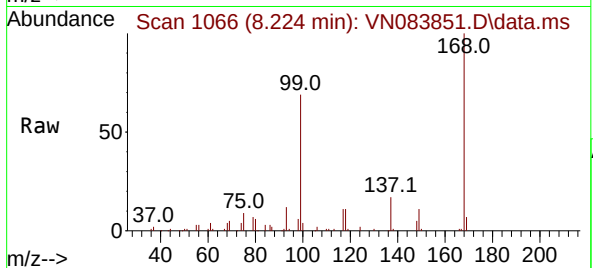
77 0.0 25.2 37.8#



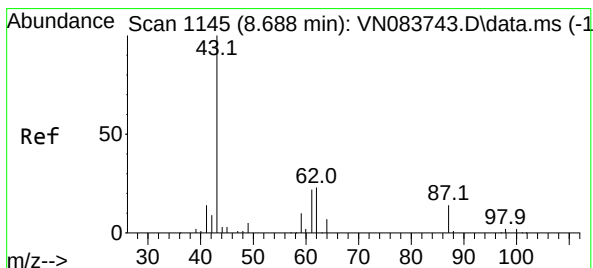
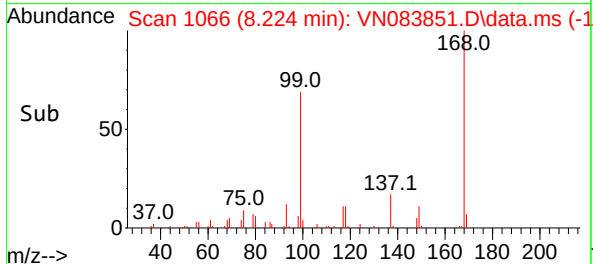
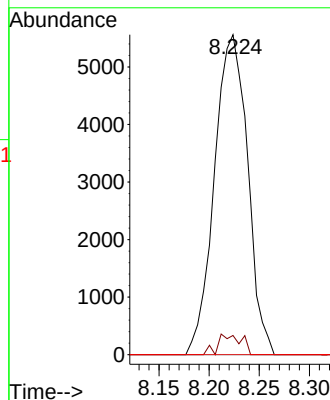


#38
Carbon Tetrachloride
Concen: 4.713 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN083851.D
Acq: 13 Sep 2024 04:13

Instrument :
MSVOA_N
ClientSampleId :
MW203D-20240909

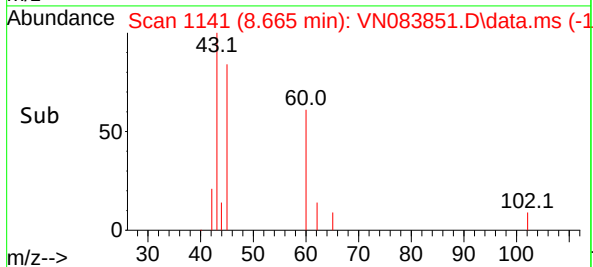
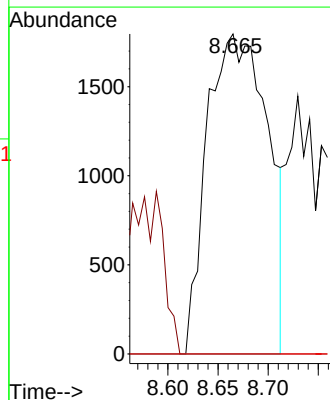
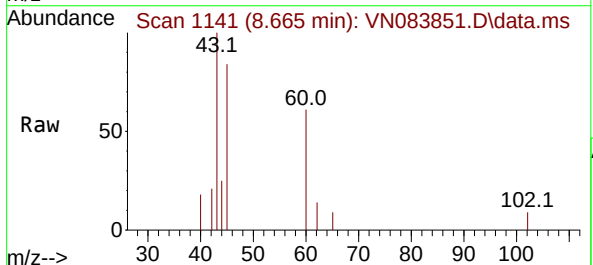


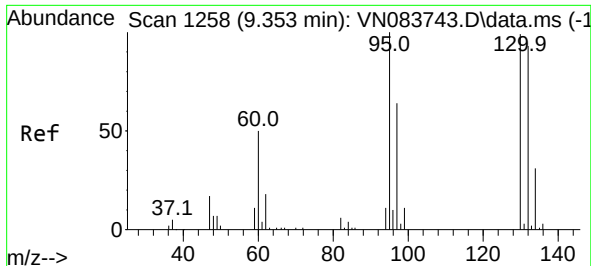
Tgt Ion: 117 Resp: 12809
Ion Ratio Lower Upper
117 100
119 6.0 76.1 114.1#
121 0.0 24.1 36.1#



#43
Isopropyl Acetate
Concen: 1.919 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.024 min
Lab File: VN083851.D
Acq: 13 Sep 2024 04:13

Tgt Ion: 43 Resp: 7564
Ion Ratio Lower Upper
43 100
61 0.0 19.4 29.0#
87 0.0 9.8 14.6#

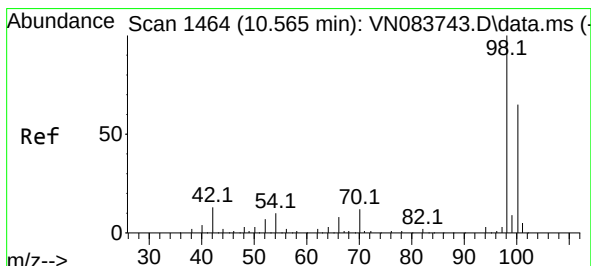
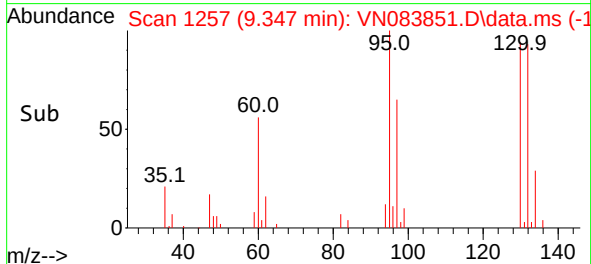
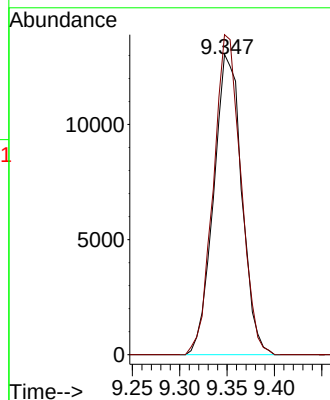
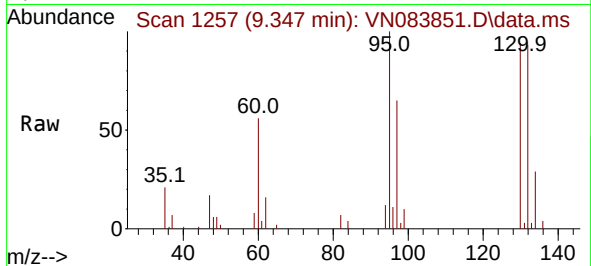




#44
 Trichloroethene
 Concen: 16.120 ug/l
 RT: 9.347 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VN083851.D
 Acq: 13 Sep 2024 04:13

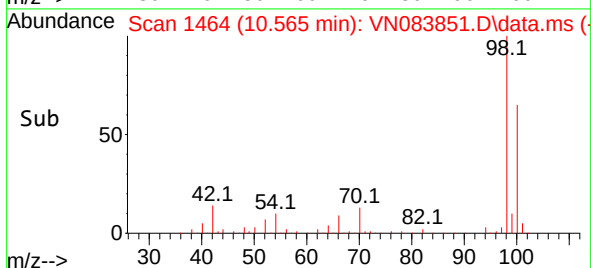
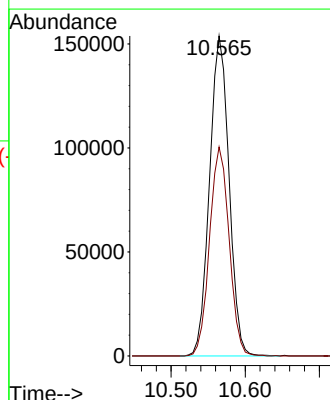
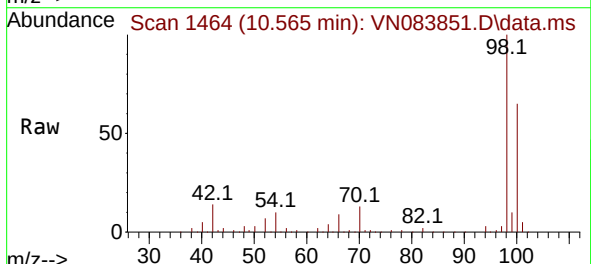
Instrument :
 MSVOA_N
 ClientSampleId :
 MW203D-20240909

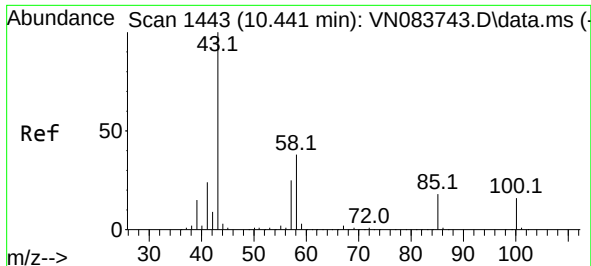
Tgt Ion:130 Resp: 26918
 Ion Ratio Lower Upper
 130 100
 95 106.5 0.0 200.4



#50
 Toluene-d8
 Concen: 51.069 ug/l
 RT: 10.565 min Scan# 1464
 Delta R.T. 0.000 min
 Lab File: VN083851.D
 Acq: 13 Sep 2024 04:13

Tgt Ion: 98 Resp: 281013
 Ion Ratio Lower Upper
 98 100
 100 65.6 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 0.732 ug/l

RT: 10.565 min Scan# 14

Delta R.T. 0.124 min

Lab File: VN083851.D

Acq: 13 Sep 2024 04:13

Instrument :

MSVOA_N

ClientSampleId :

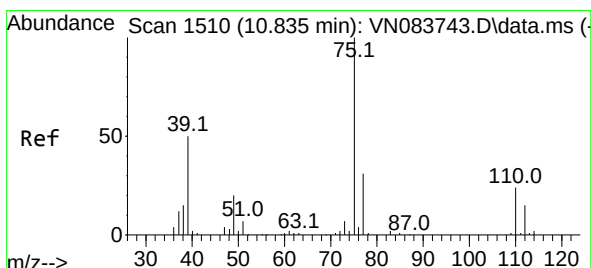
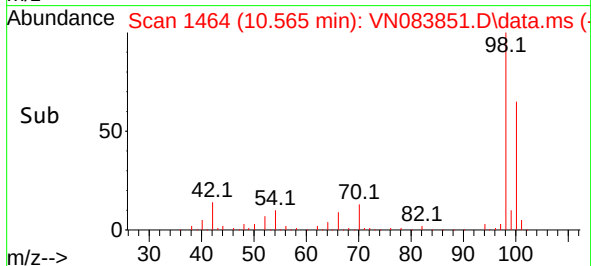
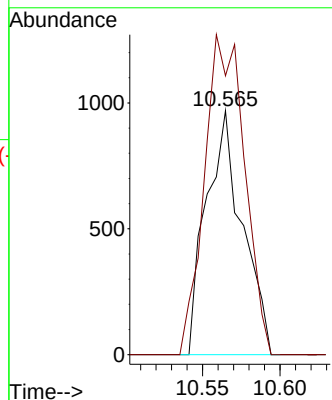
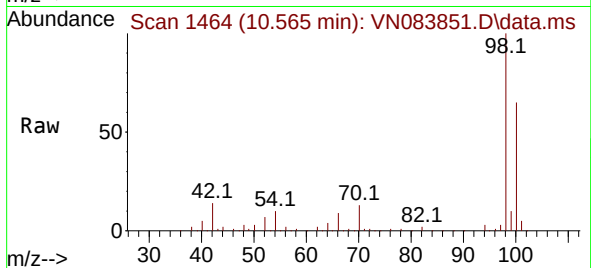
MW203D-20240909

Tgt Ion: 43 Resp: 1570

Ion Ratio Lower Upper

43 100

58 145.4 31.6 47.4#



#53

t-1,3-Dichloropropene

Concen: 0.247 ug/l

RT: 10.829 min Scan# 1509

Delta R.T. -0.006 min

Lab File: VN083851.D

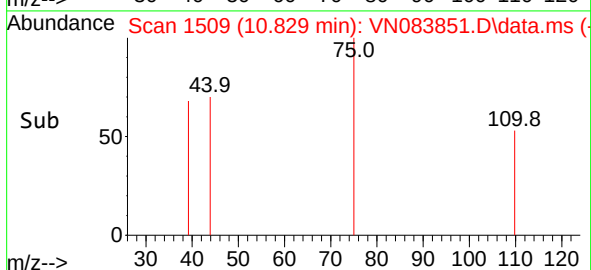
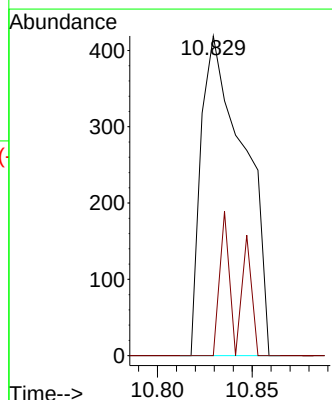
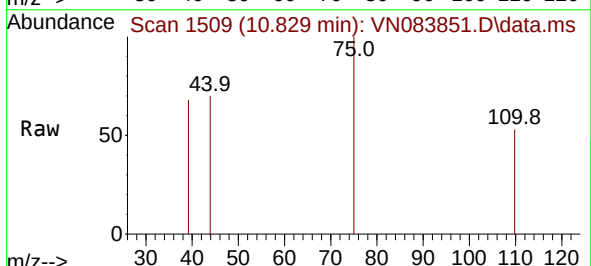
Acq: 13 Sep 2024 04:13

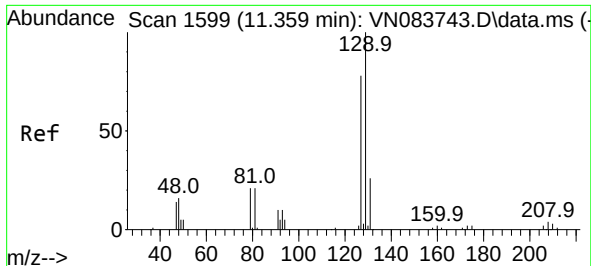
Tgt Ion: 75 Resp: 661

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

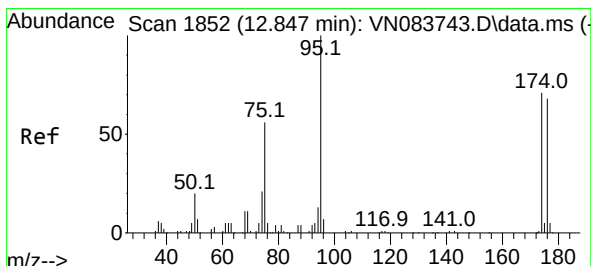
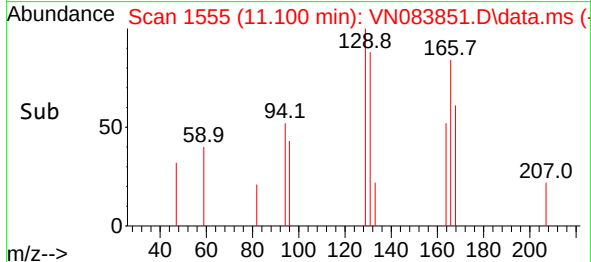
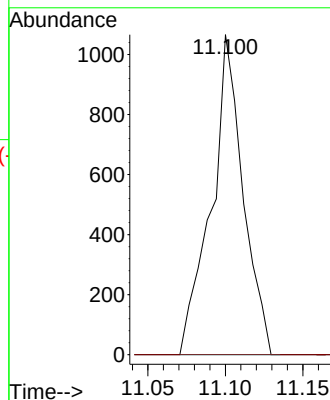
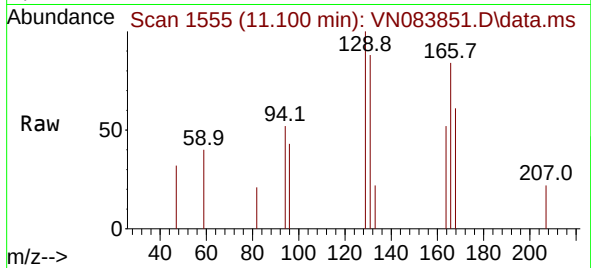




#60
Dibromochloromethane
Concen: 0.824 ug/l
RT: 11.100 min Scan# 11
Delta R.T. -0.259 min
Lab File: VN083851.D
Acq: 13 Sep 2024 04:13

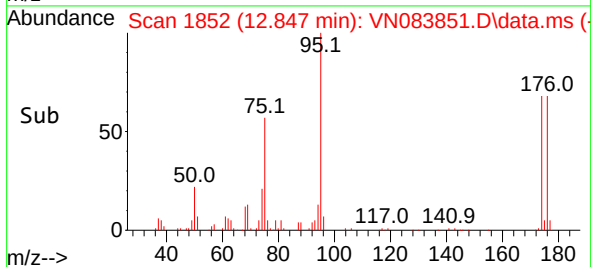
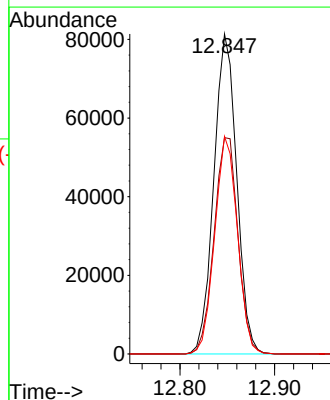
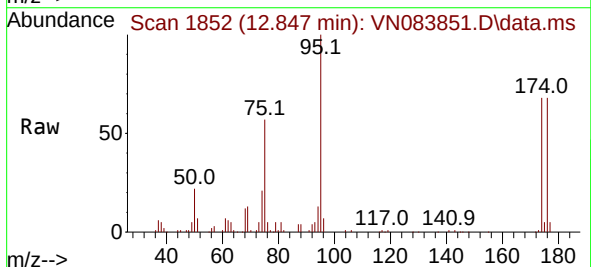
Instrument :
MSVOA_N
ClientSampleId :
MW203D-20240909

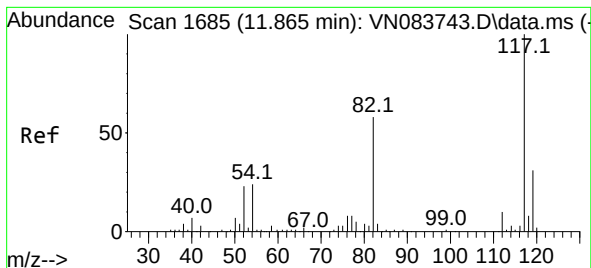
Tgt Ion:129 Resp: 1519
Ion Ratio Lower Upper
129 100
127 0.0 39.0 116.9#



#62
4-Bromofluorobenzene
Concen: 60.088 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083851.D
Acq: 13 Sep 2024 04:13

Tgt Ion: 95 Resp: 136415
Ion Ratio Lower Upper
95 100
174 70.6 0.0 139.8
176 67.6 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083851.D

Acq: 13 Sep 2024 04:13

Instrument :

MSVOA_N

ClientSampleId :

MW203D-20240909

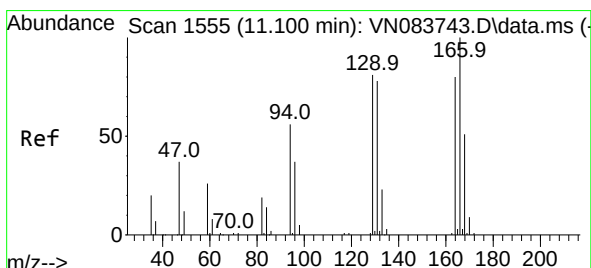
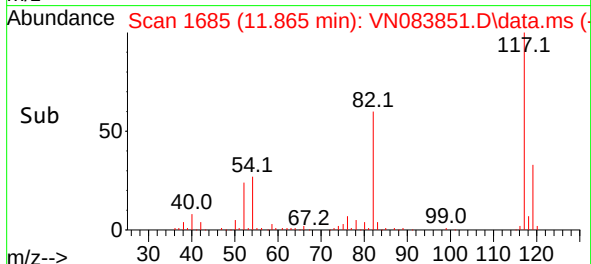
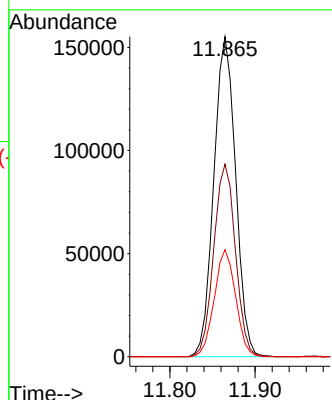
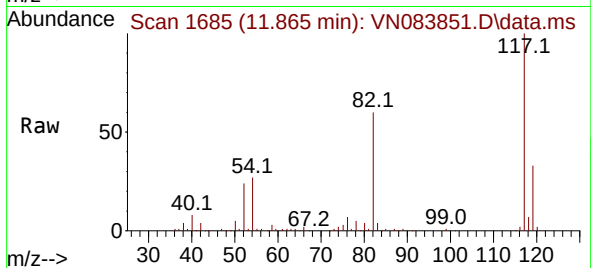
Tgt Ion:117 Resp: 276381

Ion Ratio Lower Upper

117 100

82 60.2 47.4 71.0

119 33.5 26.3 39.5



#64

Tetrachloroethene

Concen: 0.828 ug/l

RT: 11.112 min Scan# 1557

Delta R.T. 0.012 min

Lab File: VN083851.D

Acq: 13 Sep 2024 04:13

Tgt Ion:164 Resp: 1522

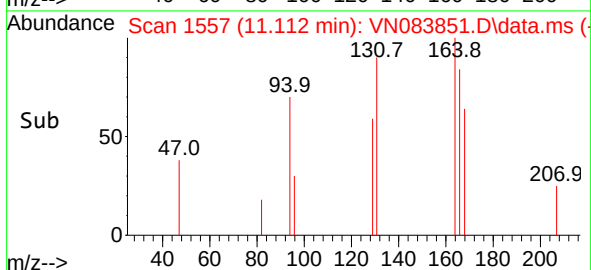
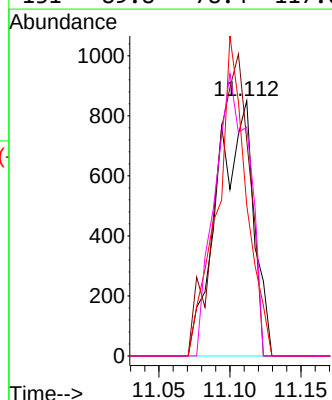
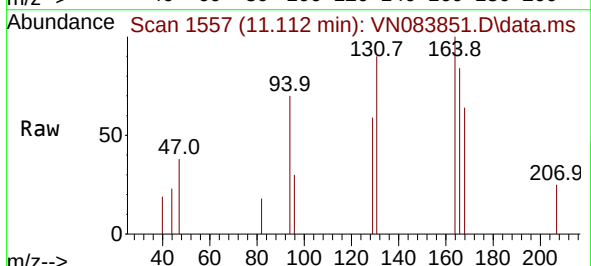
Ion Ratio Lower Upper

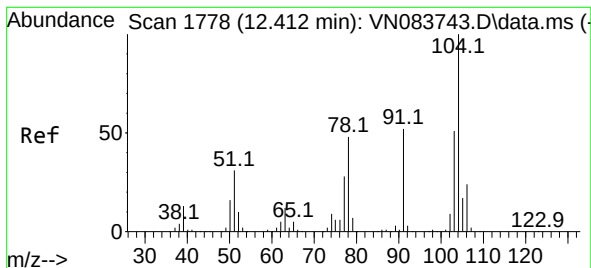
164 100

166 84.5 103.7 155.5#

129 59.1 79.9 119.9#

131 89.8 78.4 117.6





#70

Styrene

Concen: 0.304 ug/l

RT: 12.412 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN083851.D

Acq: 13 Sep 2024 04:13

Instrument :

MSVOA_N

ClientSampleId :

MW203D-20240909

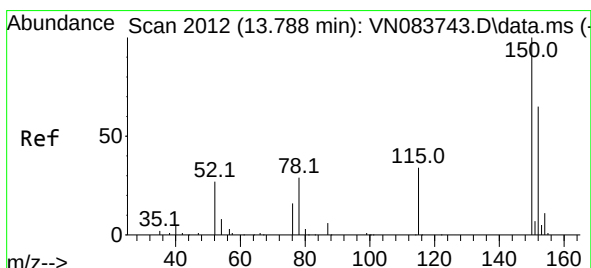
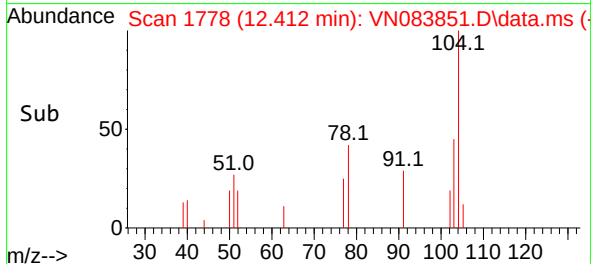
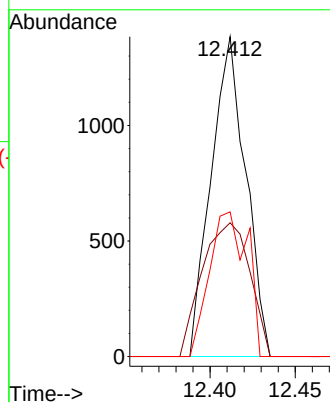
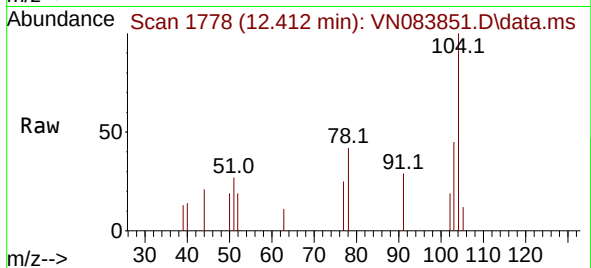
Tgt Ion:104 Resp: 1956

Ion Ratio Lower Upper

104 100

78 57.8 43.3 64.9

103 49.8 43.4 65.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN083851.D

Acq: 13 Sep 2024 04:13

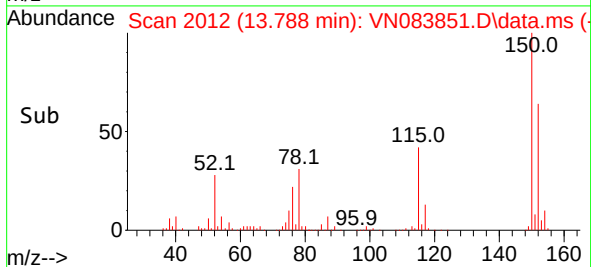
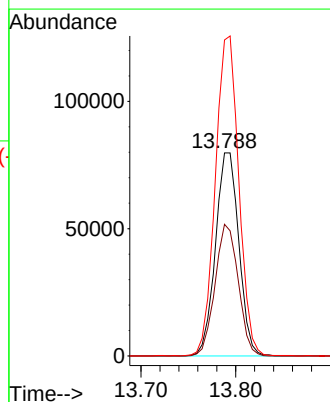
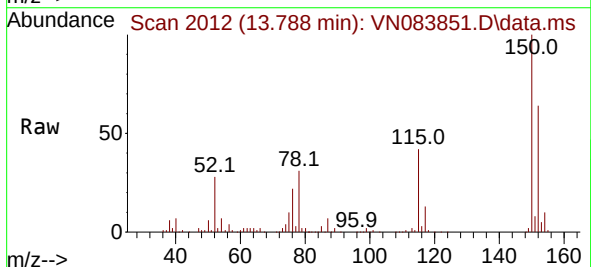
Tgt Ion:152 Resp: 136729

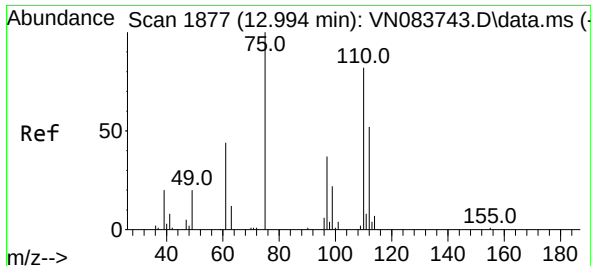
Ion Ratio Lower Upper

152 100

115 64.4 32.2 96.6

150 158.1 0.0 348.6

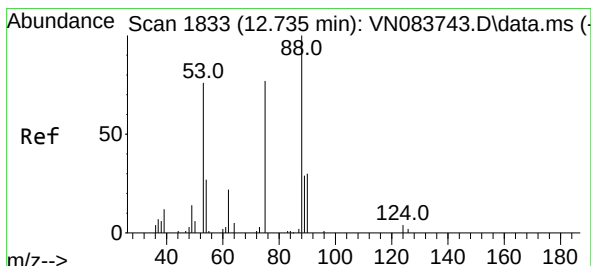
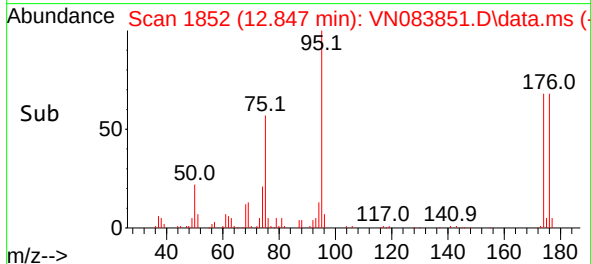
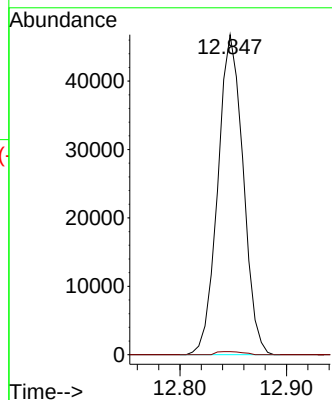
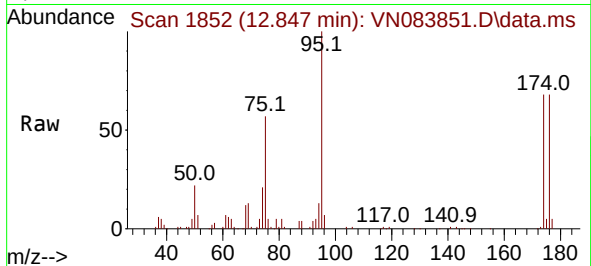




#76
1,2,3-Trichloropropane
Concen: 28.004 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN083851.D
Acq: 13 Sep 2024 04:13

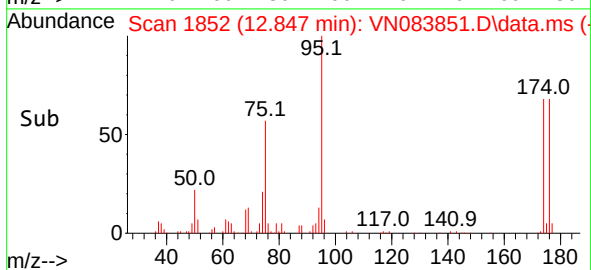
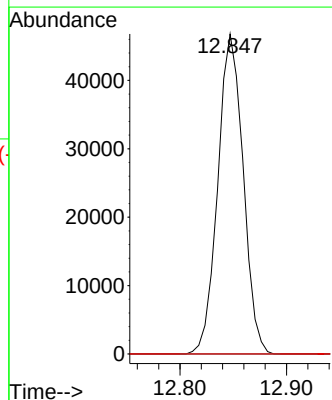
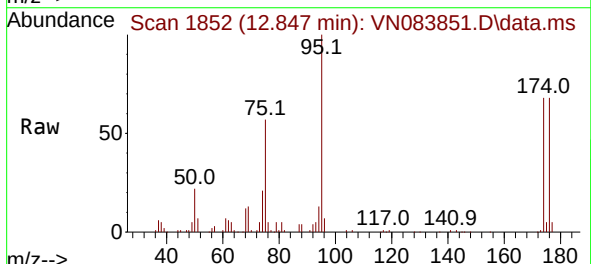
Instrument :
MSVOA_N
ClientSampleId :
MW203D-20240909

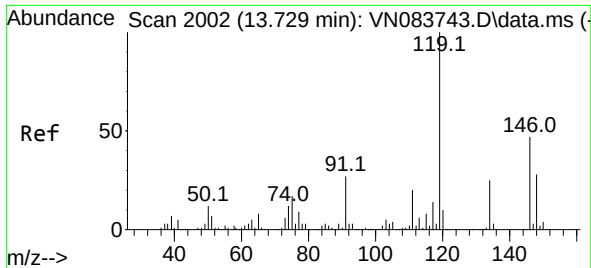
Tgt Ion: 75 Resp: 77260
Ion Ratio Lower Upper
75 100
77 1.0 95.2 285.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.344 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN083851.D
Acq: 13 Sep 2024 04:13

Tgt Ion: 75 Resp: 77260
Ion Ratio Lower Upper
75 100
53 0.0 81.2 121.8#
89 0.0 35.7 53.5#





#87

1,3-Dichlorobenzene

Concen: 0.495 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.006 min

Lab File: VN083851.D

Acq: 13 Sep 2024 04:13

Instrument :

MSVOA_N

ClientSampleId :

MW203D-20240909

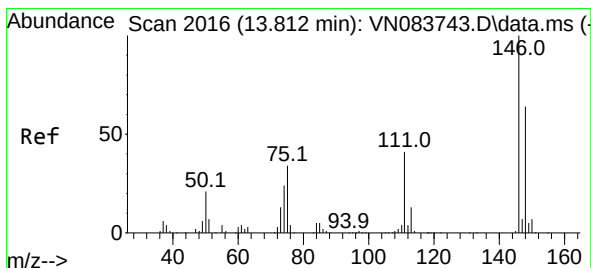
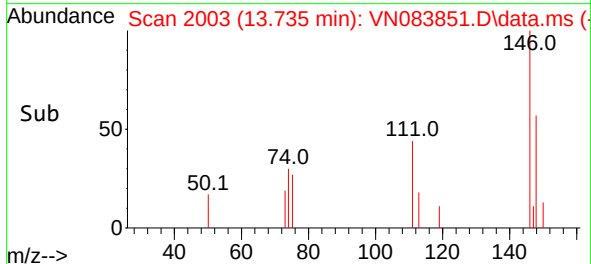
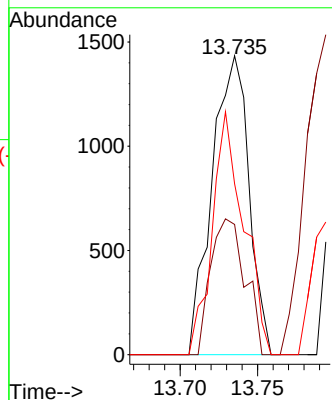
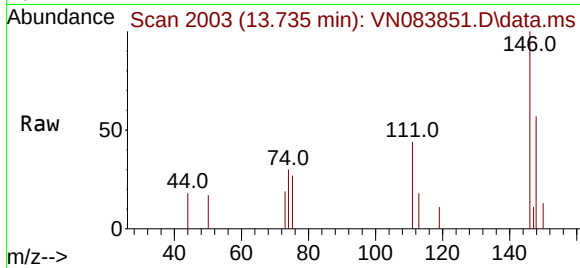
Tgt Ion:146 Resp: 2377

Ion Ratio Lower Upper

146 100

111 42.5 21.7 65.1

148 69.2 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 0.489 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.076 min

Lab File: VN083851.D

Acq: 13 Sep 2024 04:13

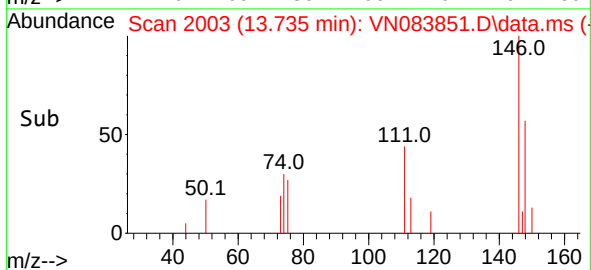
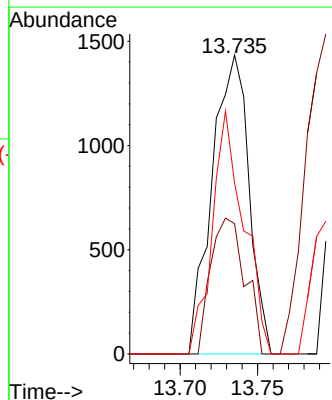
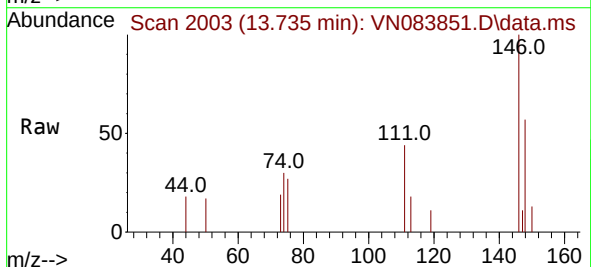
Tgt Ion:146 Resp: 2377

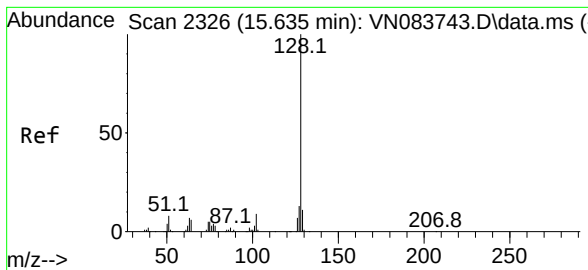
Ion Ratio Lower Upper

146 100

111 42.5 21.3 64.0

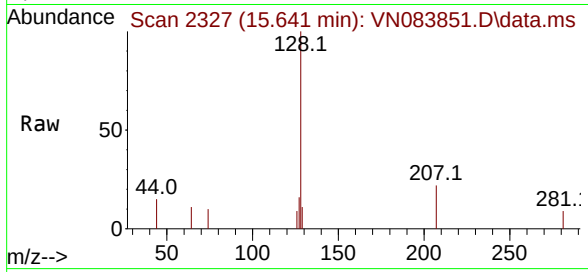
148 69.2 32.0 96.2





#95
Naphthalene
Concen: 0.539 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN083851.D
Acq: 13 Sep 2024 04:13

Instrument :
MSVOA_N
ClientSampleId :
MW203D-20240909



Tgt Ion:	128	Resp:	4082
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.2	15.2
129	8.4	8.7	13.1#

