

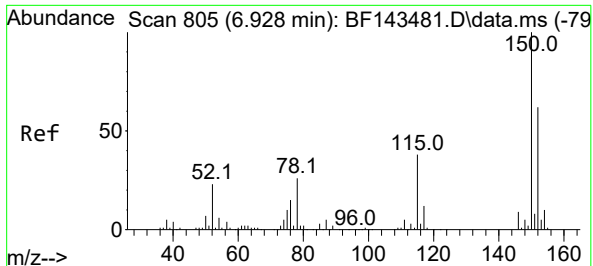
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082025\
 Data File : BF143511.D
 Acq On : 21 Aug 2025 04:21
 Operator : RC/JU
 Sample : Q2900-02
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MN-12C-081825

Quant Time: Aug 21 04:53:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 20 15:07:46 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.934	152	121876	20.000	ng	0.00
21) Naphthalene-d8	8.228	136	165304	20.000	ng	0.02
39) Acenaphthene-d10	9.963	164	245299	20.000	ng	0.00
64) Phenanthrene-d10	11.451	188	368458	20.000	ng	0.00
76) Chrysene-d12	14.092	240	219458	20.000	ng	-0.01
86) Perylene-d12	15.592	264	260219	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.575	112	231053	33.104	ng	0.01
7) Phenol-d6	6.569	99	363298	42.165	ng	0.00
23) Nitrobenzene-d5	7.493	82	697029	246.062	ng	0.00
42) 2,4,6-Tribromophenol	10.757	330	303180	132.777	ng	0.00
45) 2-Fluorobiphenyl	9.287	172	1220725	82.245	ng	0.00
79) Terphenyl-d14	13.033	244	1098890	87.379	ng	0.00
Target Compounds						
						Qvalue
9) Benzaldehyde	6.498	77	230759	33.080	ng	# 1
15) Benzyl Alcohol	7.134	79	13913	2.157	ng	# 1
18) Hexachloroethane	7.469	117	248108	83.986	ng	# 12
19) n-Nitroso-di-n-propyla...	7.493	70	96782	18.378	ng	# 79
22) Acetophenone	7.334	105	34374	9.625	ng	# 66
24) Nitrobenzene	7.545	77	44197	15.159	ng	# 7
25) Isophorone	7.493	82	512634	98.722	ng	# 65
31) Naphthalene	8.328	128	27519730	3467.599	ng	# 92
32) Benzoic acid	8.022	122	5627	9.784	ng	# 1
33) 4-Chloroaniline	8.328	127	4314782	1531.822	ng	# 34
35) Caprolactam	8.875	113	3074	5.388	ng	# 1
37) 2-Methylnaphthalene	8.945	142	3851545	726.637	ng	99
38) 1-Methylnaphthalene	9.045	142	3109966	613.382	ng	99
46) 1,1'-Biphenyl	9.386	154	439050	25.217	ng	99
49) Acenaphthylene	9.834	152	2670938	136.548	ng	97
52) Acenaphthene	9.998	154	364427	27.440	ng	99
54) 2,4-Dinitrophenol	10.110	184	1945	6.402	ng	# 69
55) Dibenzofuran	10.169	168	64615	3.413	ng	97
58) Fluorene	10.510	166	359860	24.694	ng	98
67) 4-Bromophenyl-phenylether	10.757	248	20071	4.565	ng	# 1
71) Phenanthrene	11.475	178	204858	10.382	ng	99
73) Carbazole	11.680	167	204617	12.493	ng	99
77) Benzidine	13.033	184	13018	2.435	ng	# 91

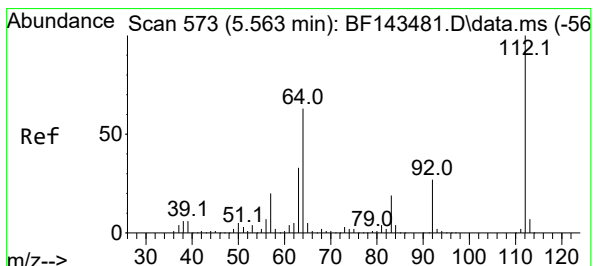
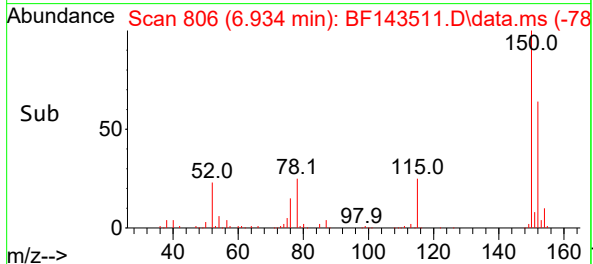
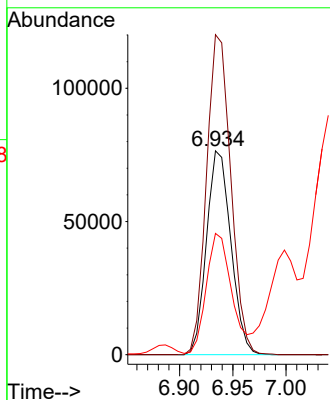
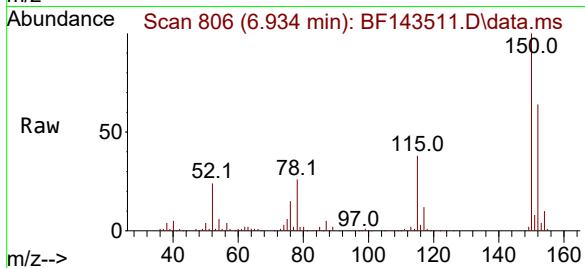
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.934 min Scan# 805
Delta R.T. 0.006 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

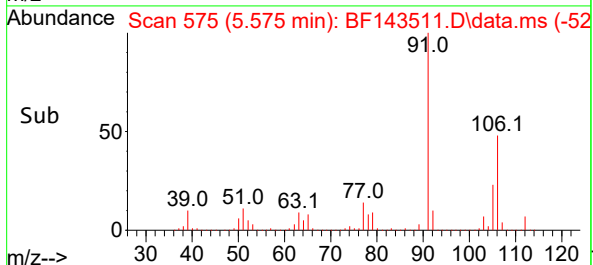
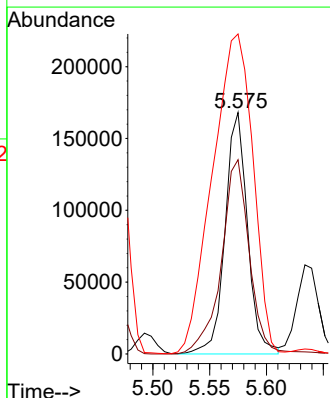
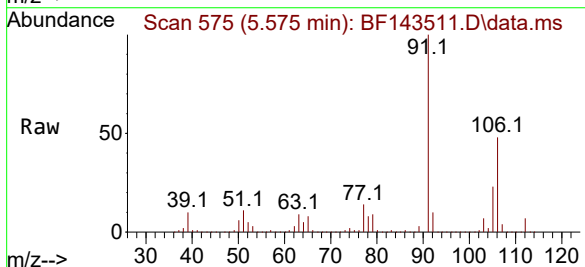
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BNA_F
ClientSampleId :
MN-12C-081825

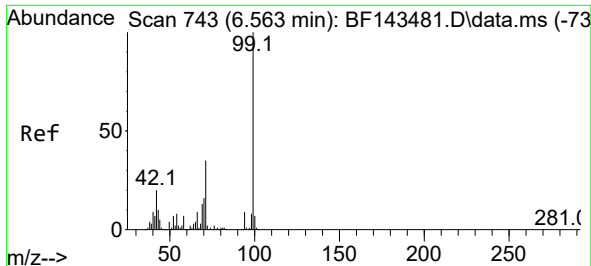
Tgt Ion:152 Resp: 121876
Ion Ratio Lower Upper
152 100
150 157.0 128.9 193.3
115 59.5 49.2 73.8



#5
2-Fluorophenol
Concen: 33.104 ng
RT: 5.575 min Scan# 575
Delta R.T. 0.012 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

Tgt Ion:112 Resp: 231053
Ion Ratio Lower Upper
112 100
64 80.4 50.4 75.6#
63 132.5 26.4 39.6#

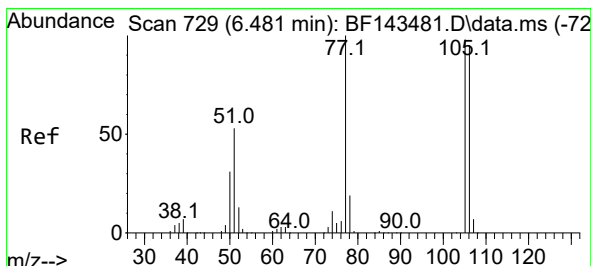
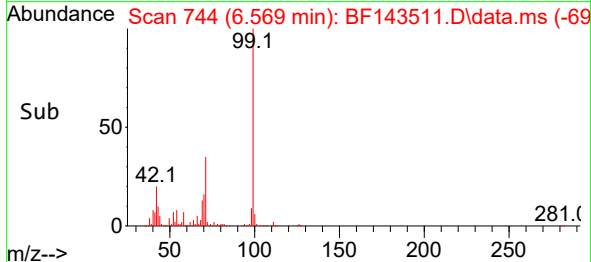
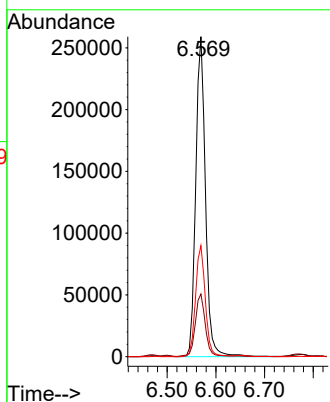
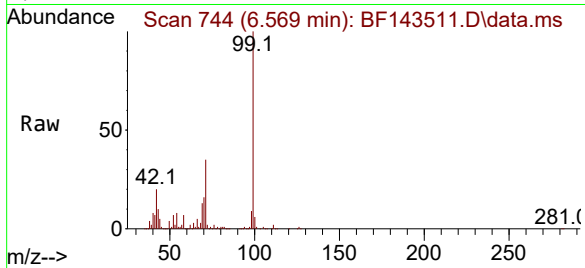




#7
Phenol-d6
Concen: 42.165 ng
RT: 6.569 min Scan# 744
Delta R.T. -0.006 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

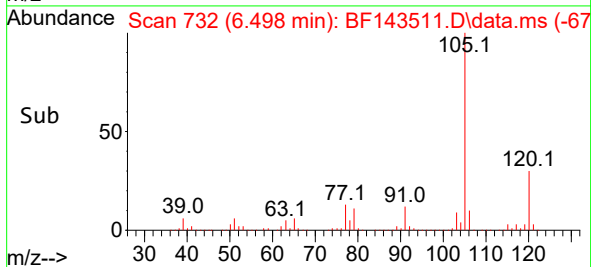
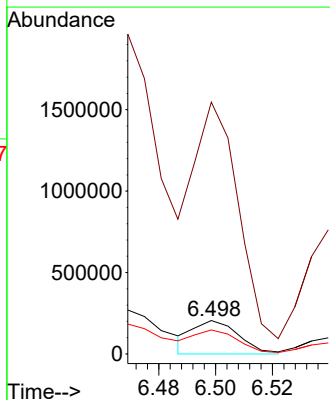
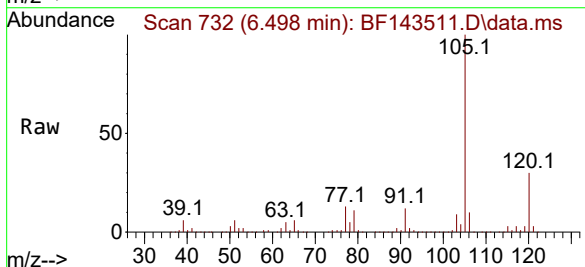
Instrument :
BNA_F
ClientSampleId :
MN-12C-081825

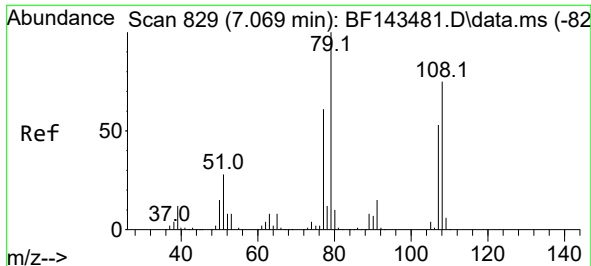
Tgt Ion: 99 Resp: 363298
Ion Ratio Lower Upper
99 100
42 19.6 16.3 24.5
71 34.7 28.2 42.2



#9
Benzaldehyde
Concen: 33.080 ng
RT: 6.498 min Scan# 732
Delta R.T. 0.017 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

Tgt Ion: 77 Resp: 230759
Ion Ratio Lower Upper
77 100
105 754.1 78.1 118.1#
106 72.0 74.9 114.9#

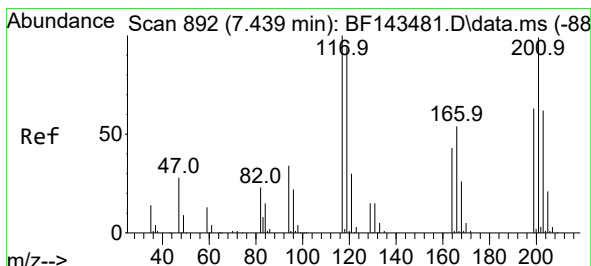
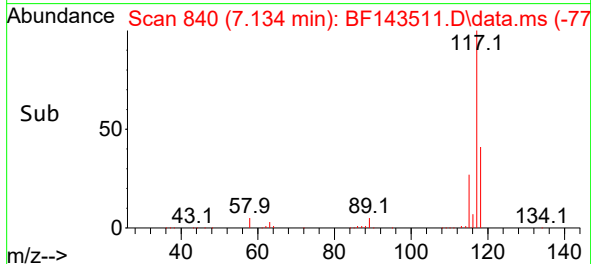
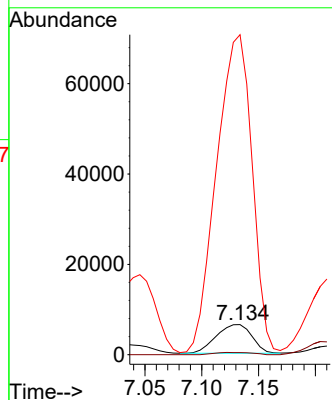
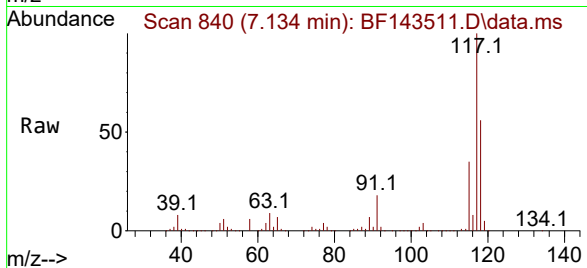




#15
Benzyl Alcohol
Concen: 2.157 ng
RT: 7.134 min Scan# 840
Delta R.T. 0.059 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

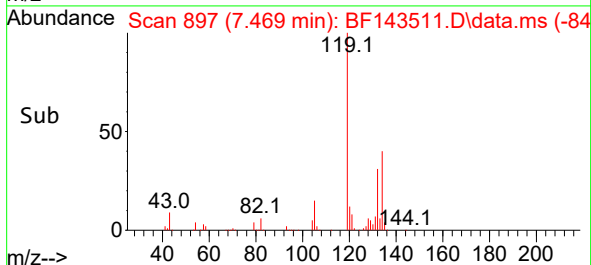
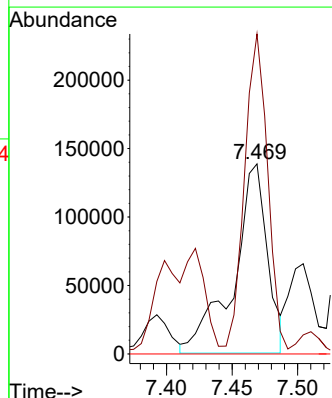
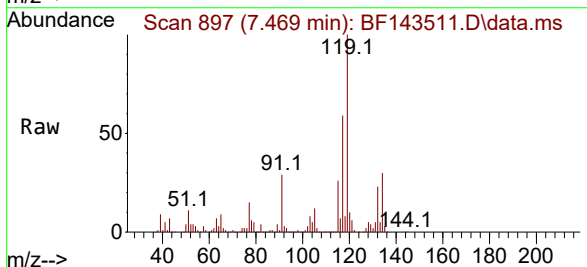
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ClientSampleId :
MN-12C-081825

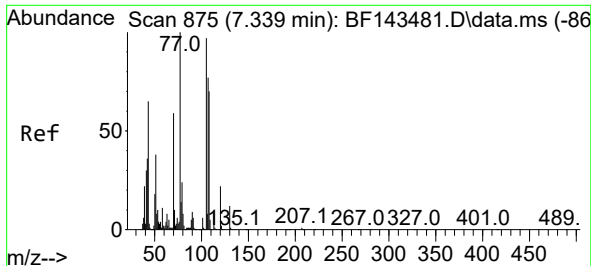
Tgt Ion: 79 Resp: 13913
Ion Ratio Lower Upper
79 100
108 6.8 59.8 89.6#
77 1064.2 49.0 73.4#



#18
Hexachloroethane
Concen: 83.986 ng
RT: 7.469 min Scan# 897
Delta R.T. 0.024 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

Tgt Ion: 117 Resp: 248108
Ion Ratio Lower Upper
117 100
119 168.3 75.4 113.0#
201 0.0 79.0 118.4#

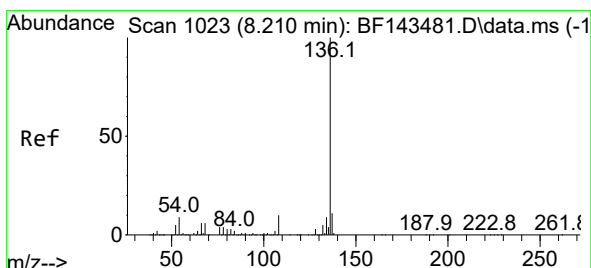
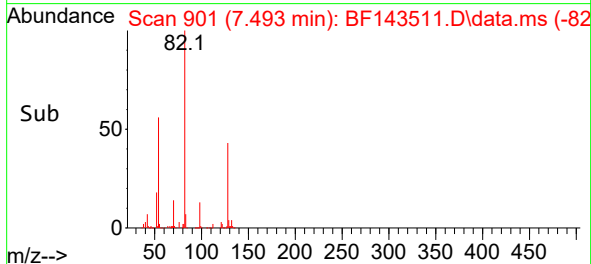
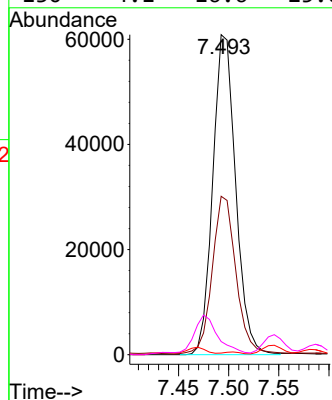
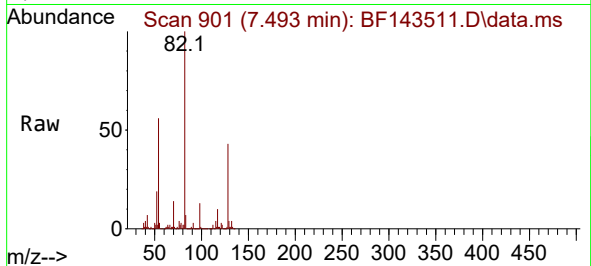




#19
n-Nitroso-di-n-propylamine
Concen: 18.378 ng
RT: 7.493 min Scan# 90
Delta R.T. 0.141 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

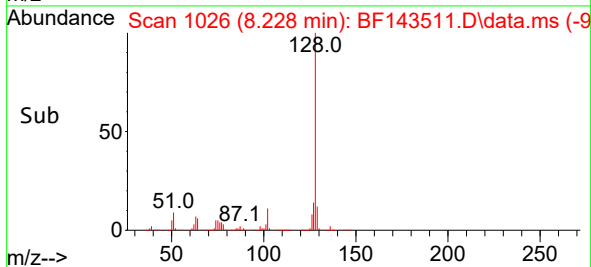
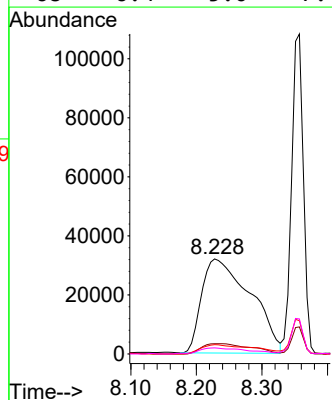
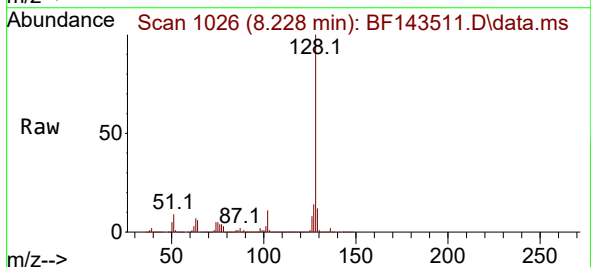
Instrument :
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ClientSampleId :
MN-12C-081825

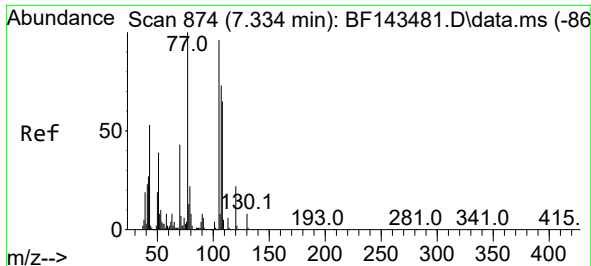
Tgt Ion: 70 Resp: 96782
Ion Ratio Lower Upper
70 100
42 49.5 49.3 73.9
101 0.5 7.8 11.8#
130 4.1 16.6 25.0#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.228 min Scan# 1026
Delta R.T. 0.018 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

Tgt Ion: 136 Resp: 165304
Ion Ratio Lower Upper
136 100
137 10.8 9.0 13.4
54 9.8 7.4 11.2
68 6.4 5.0 7.4

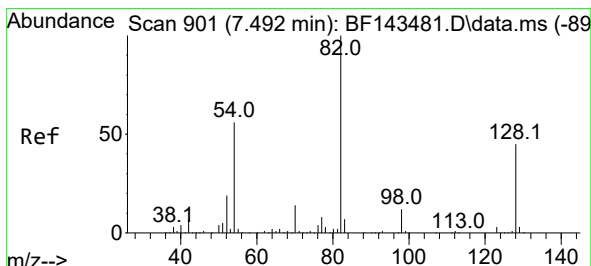
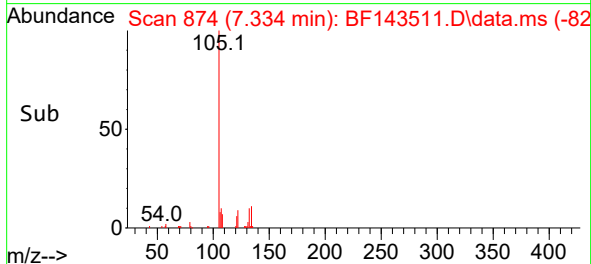
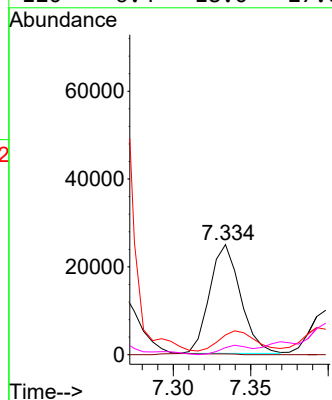
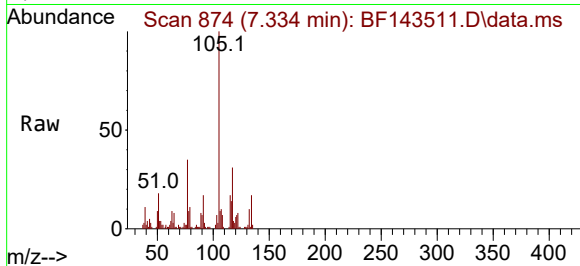




#22
Acetophenone
Concen: 9.625 ng
RT: 7.334 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

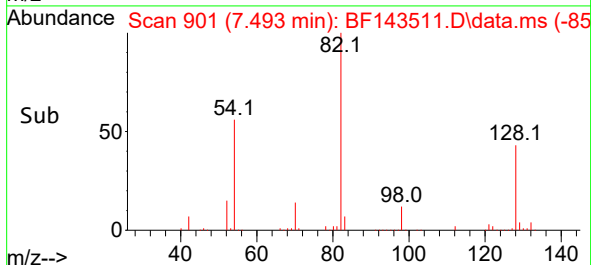
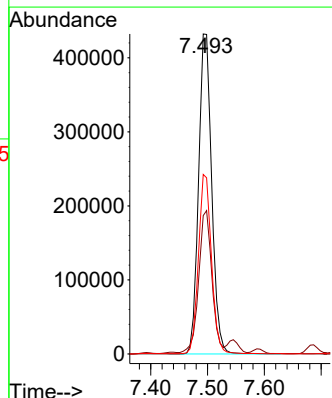
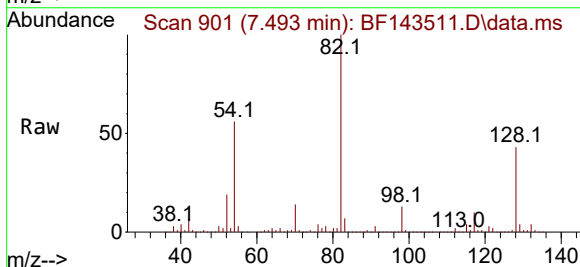
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MN-12C-081825

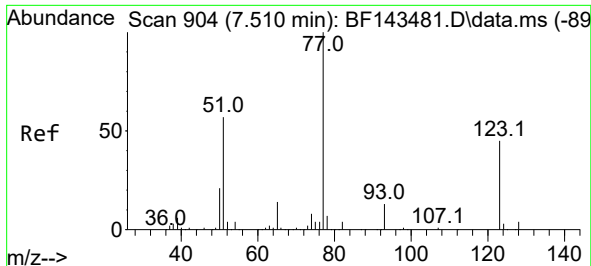
Tgt Ion:105 Resp: 34374
Ion Ratio Lower Upper
105 100
71 0.7 5.9 8.9#
51 17.9 32.5 48.7#
120 6.4 18.0 27.0#



#23
Nitrobenzene-d5
Concen: 246.062 ng
RT: 7.493 min Scan# 901
Delta R.T. -0.006 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

Tgt Ion: 82 Resp: 697029
Ion Ratio Lower Upper
82 100
128 43.2 35.5 53.3
54 56.1 44.3 66.5

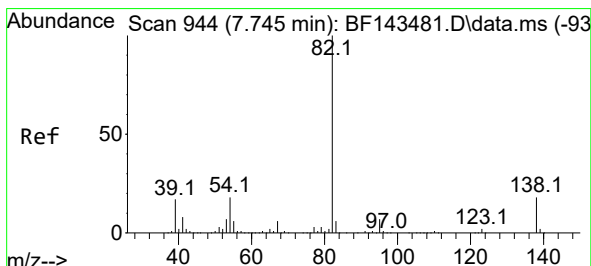
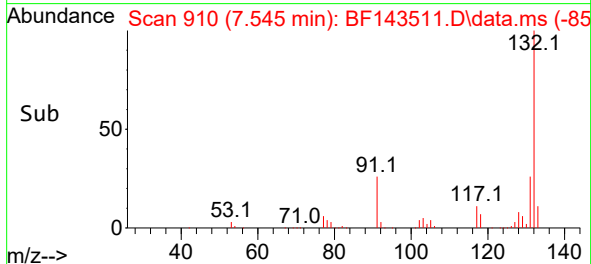
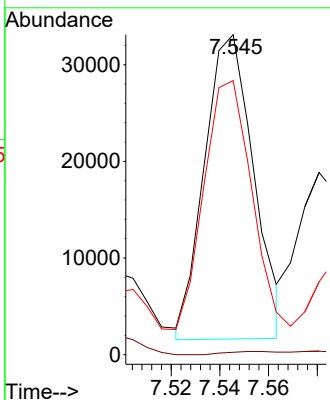
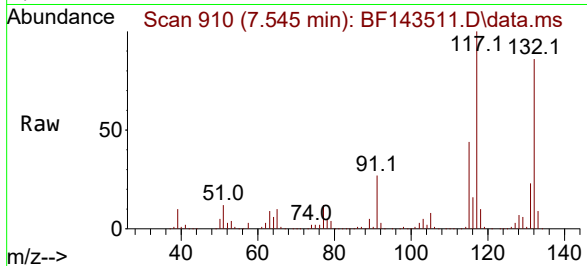




#24
Nitrobenzene
Concen: 15.159 ng
RT: 7.545 min Scan# 911
Delta R.T. 0.029 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

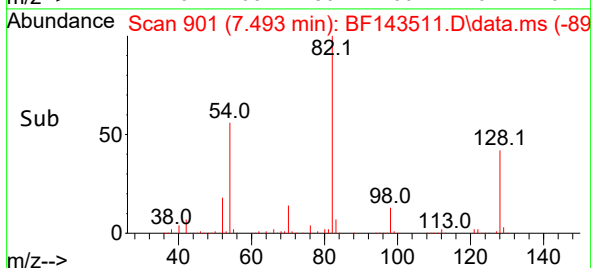
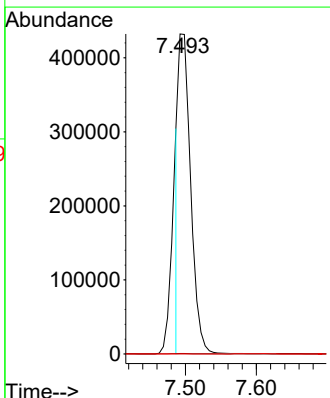
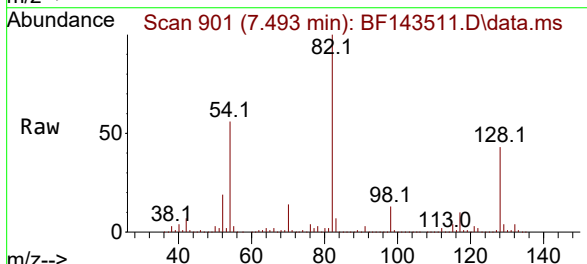
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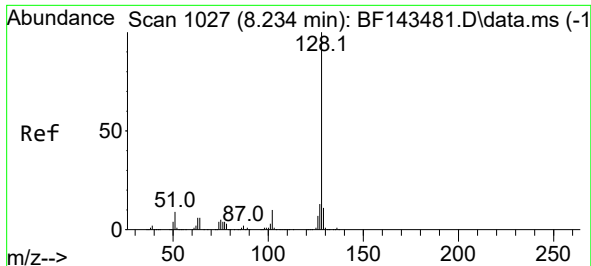
Tgt Ion: 77 Resp: 44197
Ion Ratio Lower Upper
77 100
123 0.7 36.1 54.1#
65 85.6 11.0 16.6#



#25
Isophorone
Concen: 98.722 ng
RT: 7.493 min Scan# 901
Delta R.T. -0.265 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

Tgt Ion: 82 Resp: 512634
Ion Ratio Lower Upper
82 100
95 0.1 5.8 8.8#
138 0.0 14.2 21.4#

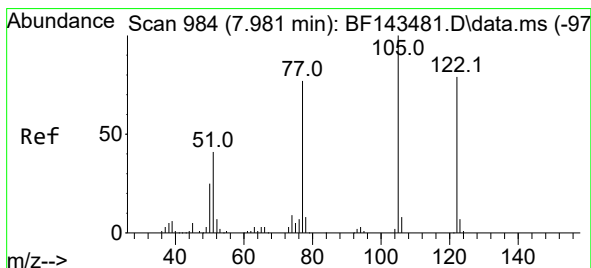
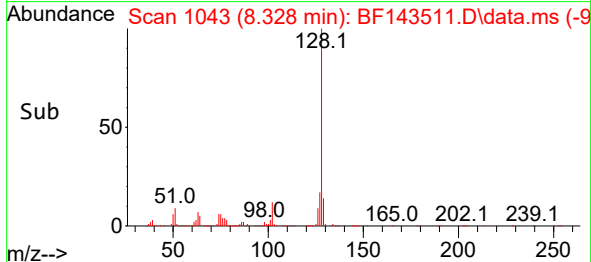
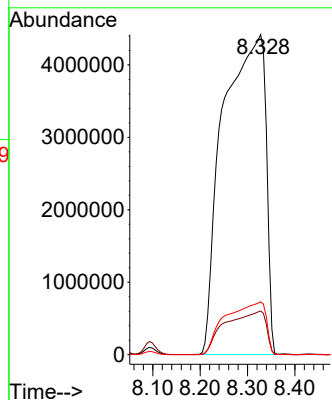
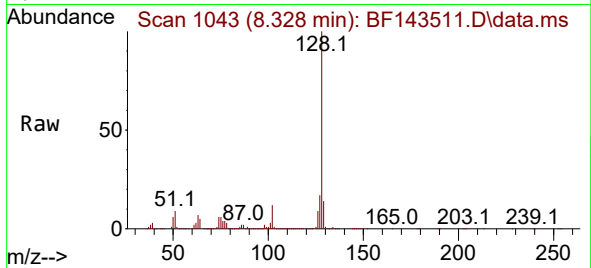




#31
Naphthalene
Concen: 3467.599 ng
RT: 8.328 min Scan# 1043
Delta R.T. 0.094 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

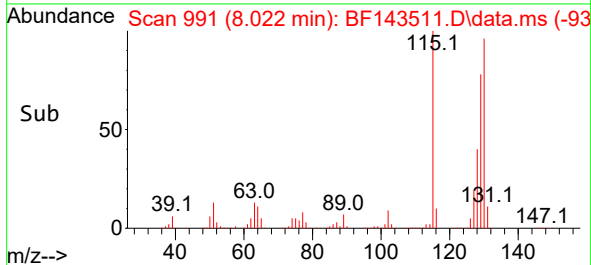
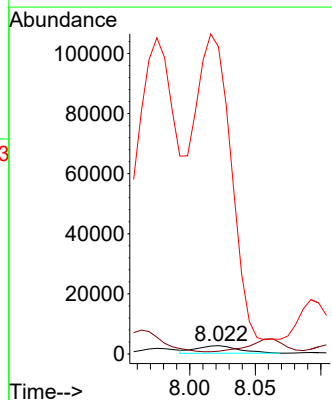
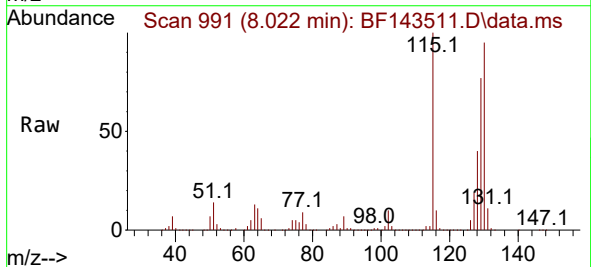
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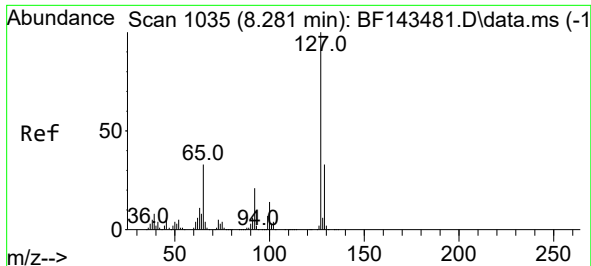
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Ion Ratio Lower Upper
128 100
129 13.6 8.8 13.2#
127 16.5 10.6 16.0#



#32
Benzoic acid
Concen: 9.784 ng
RT: 8.022 min Scan# 991
Delta R.T. 0.012 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

Tgt Ion:122 Resp: 5627
Ion Ratio Lower Upper
122 100
105 33.7 104.7 144.7#
77 3690.4 77.3 117.3#



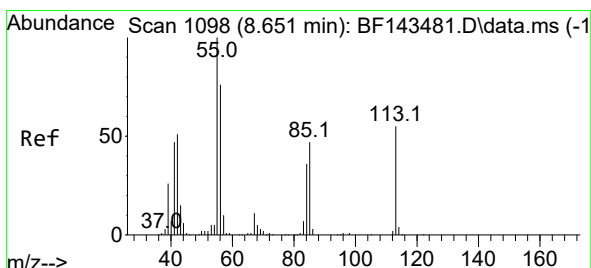
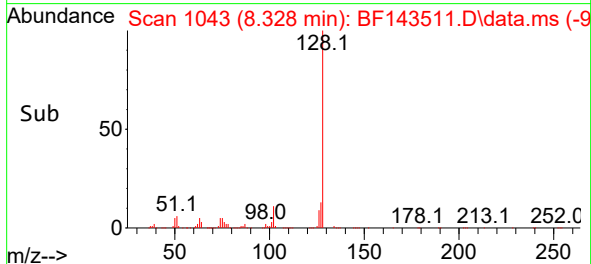
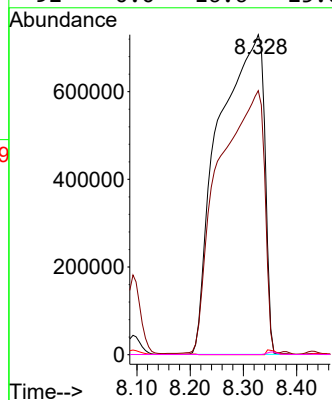
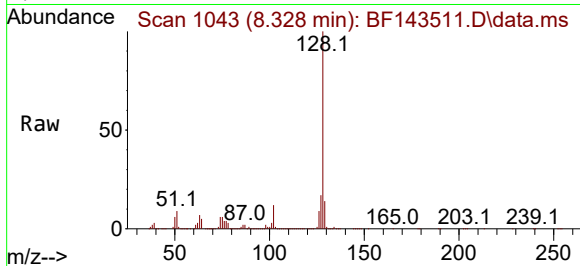


#33
4-Chloroaniline
Concen: 1531.822 ng
RT: 8.328 min Scan# 1136
Delta R.T. 0.047 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

Instrument :
BNA_F
ClientSampleId :
MN-12C-081825

Tgt Ion:127 Resp: 4314782

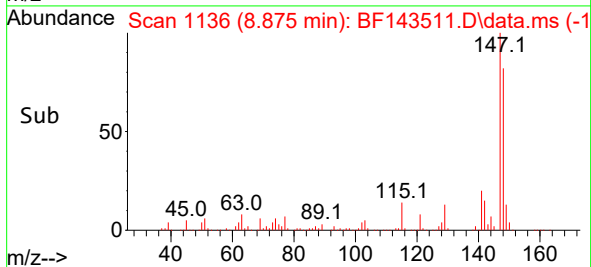
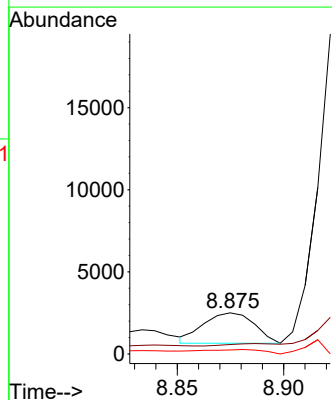
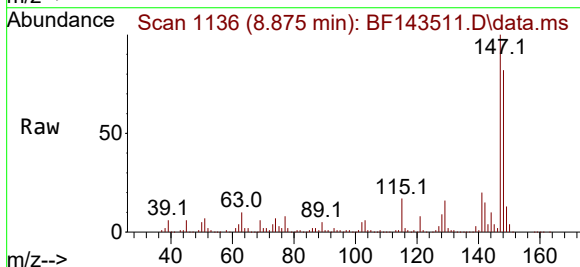
Ion	Ratio	Lower	Upper
127	100		
129	82.5	26.1	39.1#
65	0.0	26.2	39.2#
92	0.0	16.6	25.0#

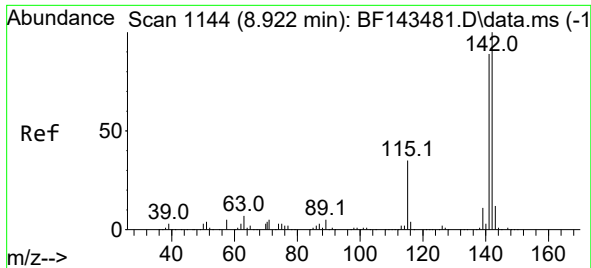


#35
Caprolactam
Concen: 5.388 ng
RT: 8.875 min Scan# 1136
Delta R.T. 0.200 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

Tgt Ion:113 Resp: 3074

Ion	Ratio	Lower	Upper
113	100		
55	23.0	162.8	202.8#
56	9.9	118.1	158.1#

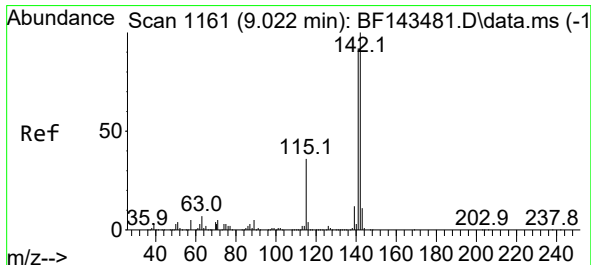
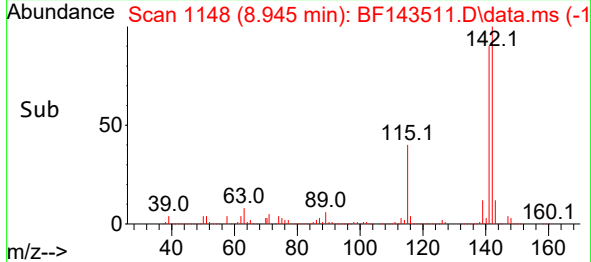
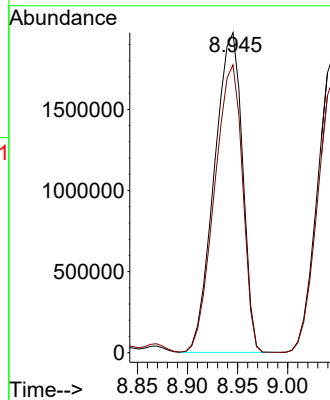
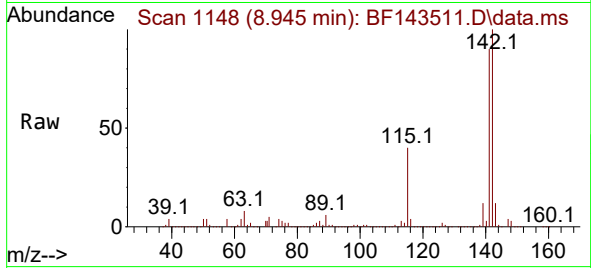




#37
2-Methylnaphthalene
Concen: 726.637 ng
RT: 8.945 min Scan# 1148
Delta R.T. 0.018 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

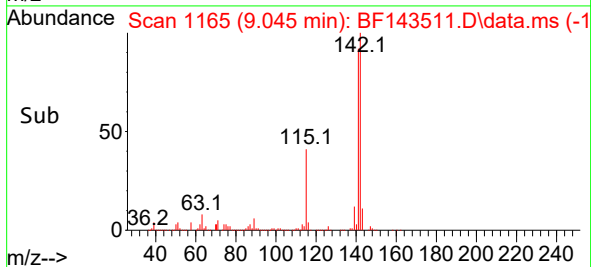
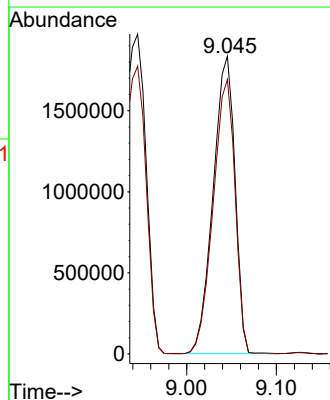
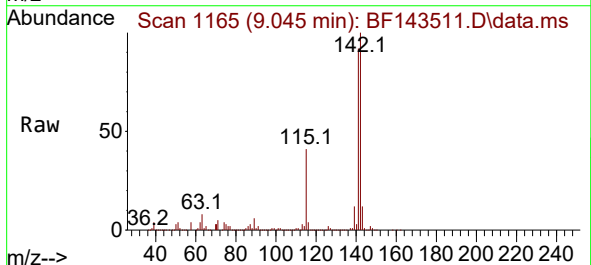
Instrument :
BNA_F
ClientSampleId :
MN-12C-081825

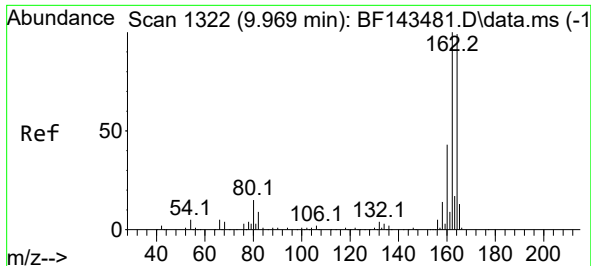
Tgt Ion:142 Resp: 3851545
Ion Ratio Lower Upper
142 100
141 90.0 71.0 106.4



#38
1-Methylnaphthalene
Concen: 613.382 ng
RT: 9.045 min Scan# 1165
Delta R.T. 0.018 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

Tgt Ion:142 Resp: 3109966
Ion Ratio Lower Upper
142 100
141 92.2 73.3 109.9





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.963 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF143511.D

Acq: 21 Aug 2025 04:21

Instrument :

BNA_F

ClientSampleId :

MN-12C-081825

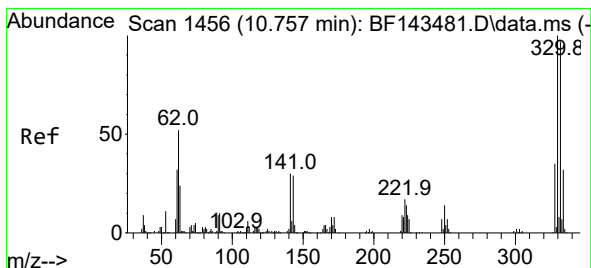
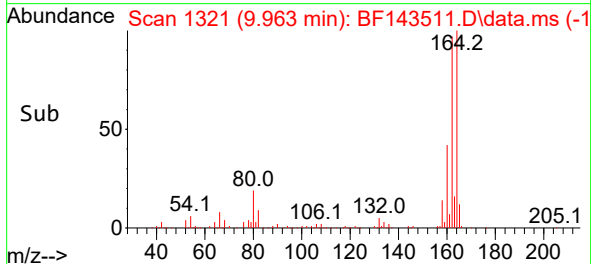
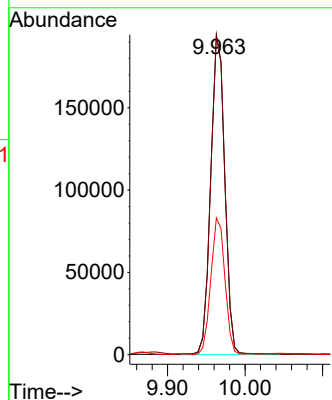
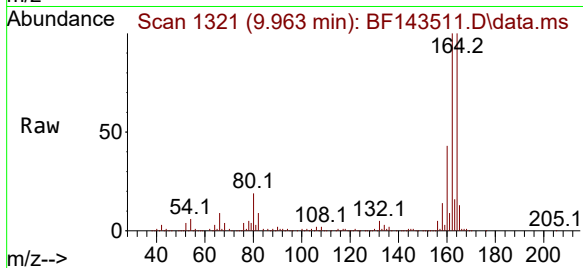
Tgt Ion:164 Resp: 245299

Ion Ratio Lower Upper

164 100

162 99.7 80.5 120.7

160 42.7 34.3 51.5



#42

2,4,6-Tribromophenol

Concen: 132.777 ng

RT: 10.757 min Scan# 1456

Delta R.T. -0.006 min

Lab File: BF143511.D

Acq: 21 Aug 2025 04:21

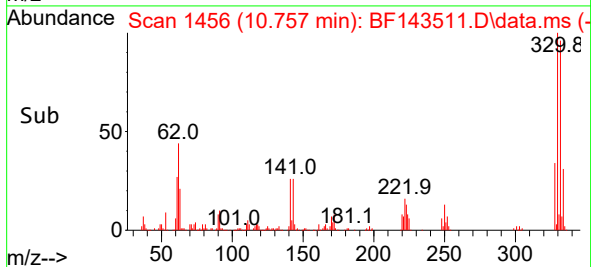
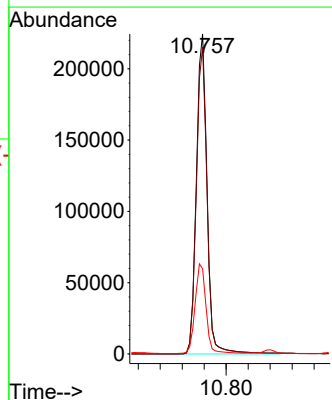
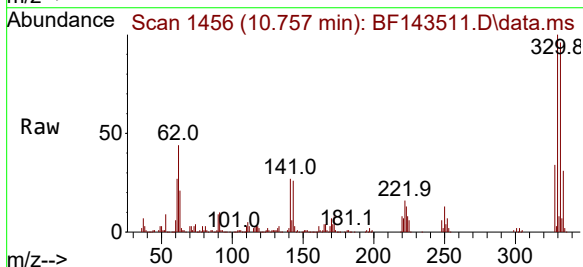
Tgt Ion:330 Resp: 303180

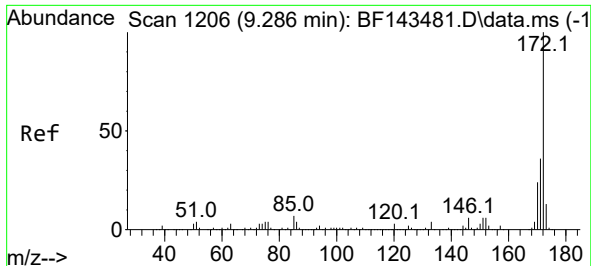
Ion Ratio Lower Upper

330 100

332 96.2 78.0 117.0

141 28.9 23.7 35.5





#45

2-Fluorobiphenyl

Concen: 82.245 ng

RT: 9.287 min Scan# 1206

Delta R.T. 0.000 min

Lab File: BF143511.D

Acq: 21 Aug 2025 04:21

Instrument :

BNA_F

ClientSampleId :

MN-12C-081825

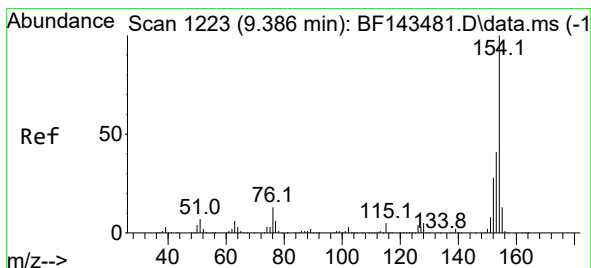
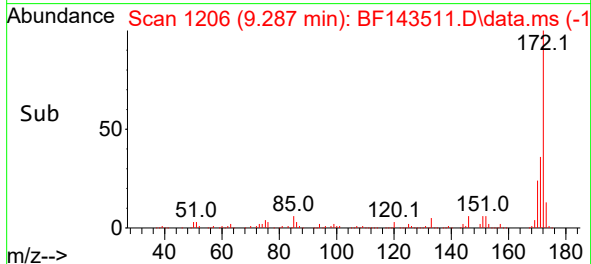
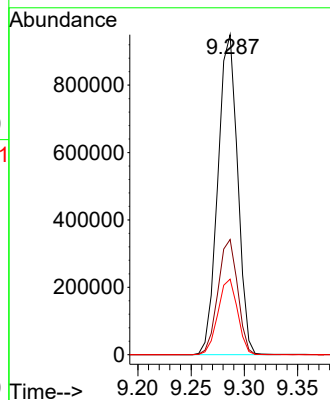
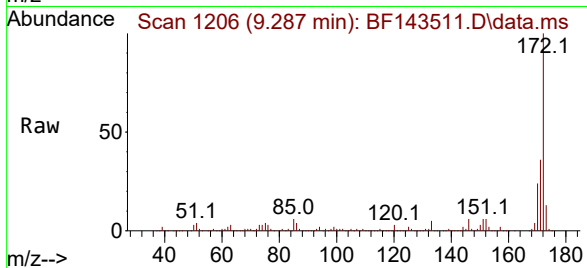
Tgt Ion:172 Resp: 1220725

Ion Ratio Lower Upper

172 100

171 36.0 28.8 43.2

170 23.6 18.8 28.2



#46

1,1'-Biphenyl

Concen: 25.217 ng

RT: 9.386 min Scan# 1223

Delta R.T. -0.006 min

Lab File: BF143511.D

Acq: 21 Aug 2025 04:21

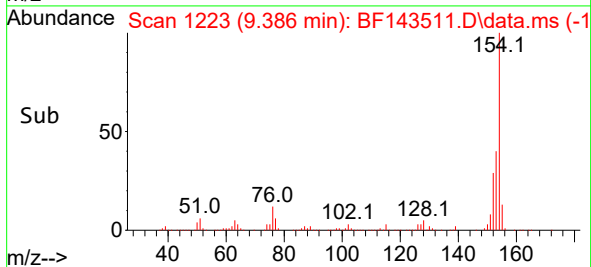
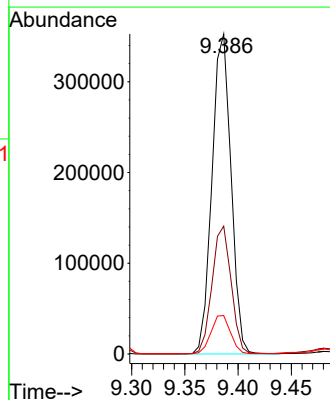
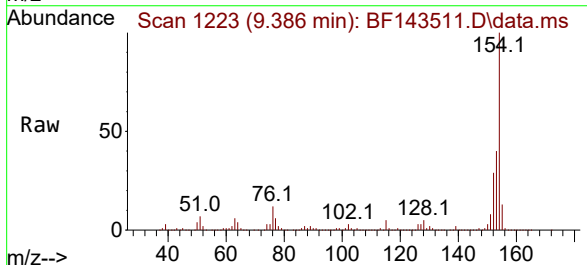
Tgt Ion:154 Resp: 439050

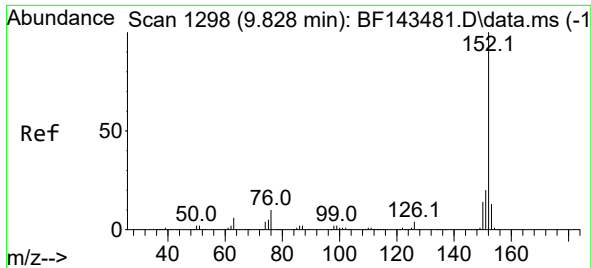
Ion Ratio Lower Upper

154 100

153 40.0 20.6 60.6

76 12.0 0.0 33.0

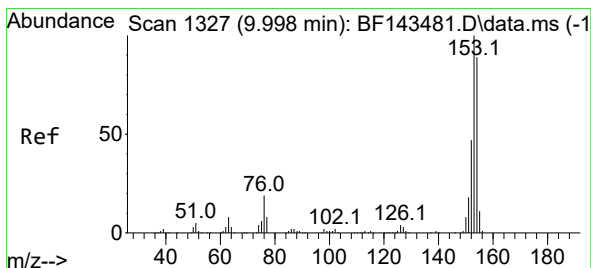
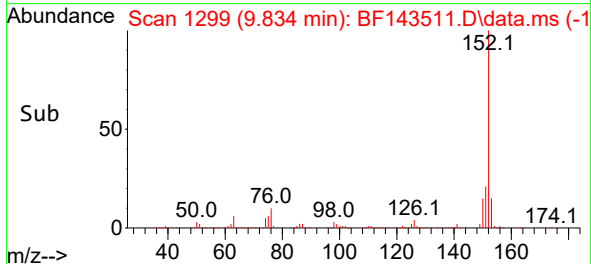
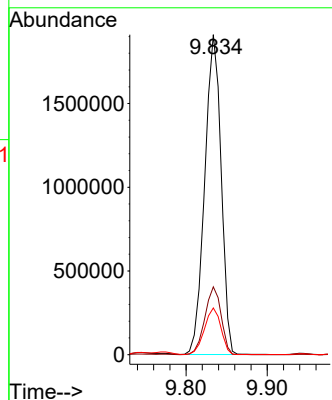
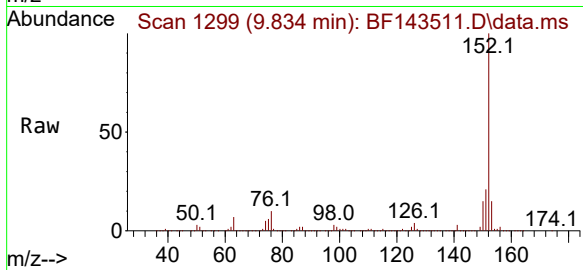




#49
Acenaphthylene
Concen: 136.548 ng
RT: 9.834 min Scan# 1299
Delta R.T. 0.006 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

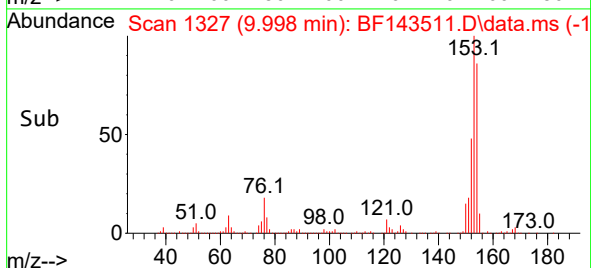
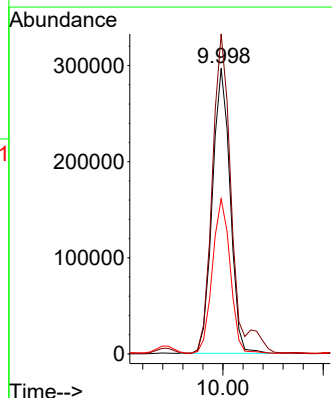
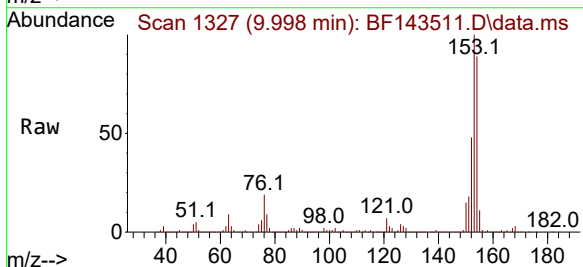
Instrument :
BNA_F
ClientSampleId :
MN-12C-081825

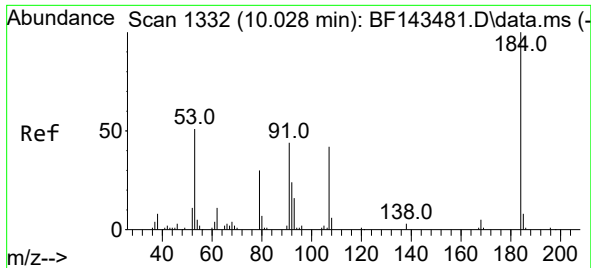
Tgt Ion:152 Resp: 2670938
Ion Ratio Lower Upper
152 100
151 21.2 16.2 24.4
153 14.6 10.6 15.8



#52
Acenaphthene
Concen: 27.440 ng
RT: 9.998 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

Tgt Ion:154 Resp: 364427
Ion Ratio Lower Upper
154 100
153 112.0 89.5 134.3
152 54.3 42.5 63.7

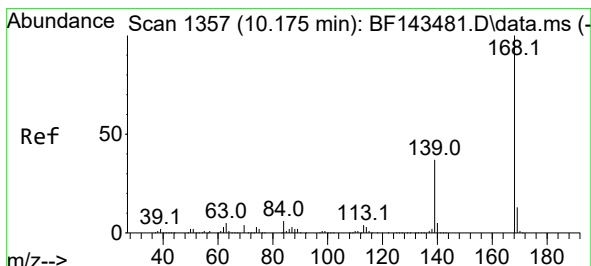
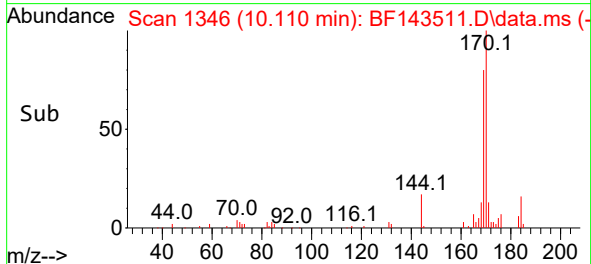
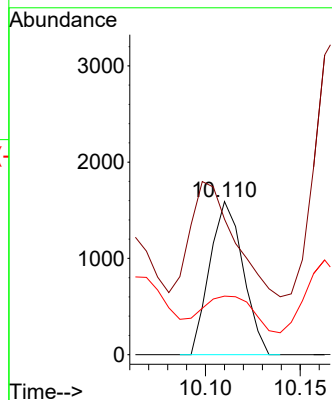
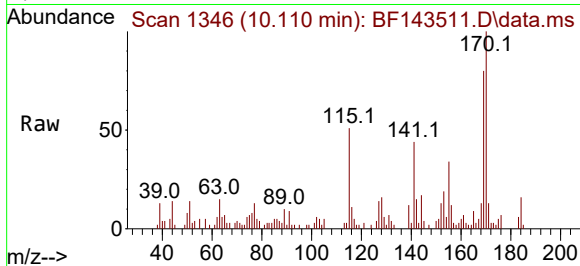




#54
2,4-Dinitrophenol
Concen: 6.402 ng
RT: 10.110 min Scan# 1332
Delta R.T. 0.082 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

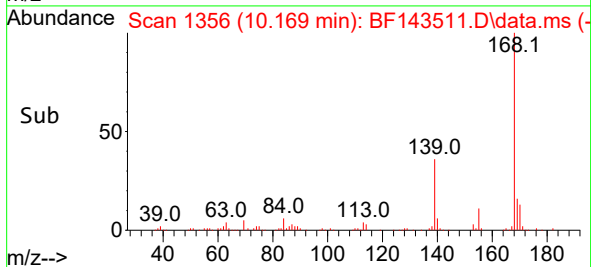
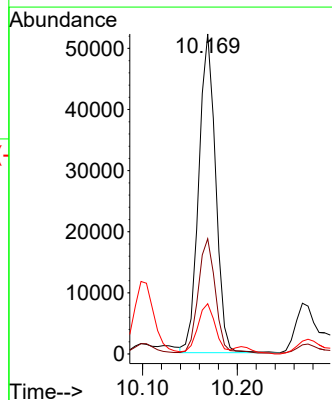
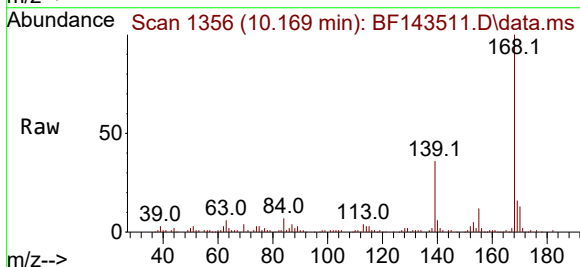
Instrument :
BNA_F
ClientSampleId :
MN-12C-081825

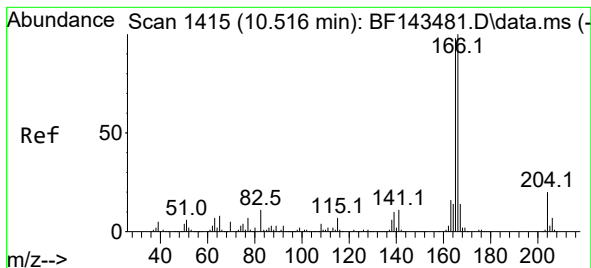
Tgt Ion:184 Resp: 1945
Ion Ratio Lower Upper
184 100
63 88.4 52.6 78.8#
154 38.2 51.0 76.4#



#55
Dibenzofuran
Concen: 3.413 ng
RT: 10.169 min Scan# 1356
Delta R.T. -0.006 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

Tgt Ion:168 Resp: 64615
Ion Ratio Lower Upper
168 100
139 36.0 29.8 44.6
169 15.7 10.8 16.2





#58

Fluorene

Concen: 24.694 ng

RT: 10.510 min Scan# 1415

Delta R.T. -0.012 min

Lab File: BF143511.D

Acq: 21 Aug 2025 04:21

Instrument :

BNA_F

ClientSampleId :

MN-12C-081825

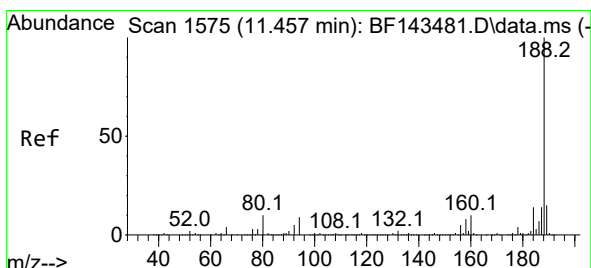
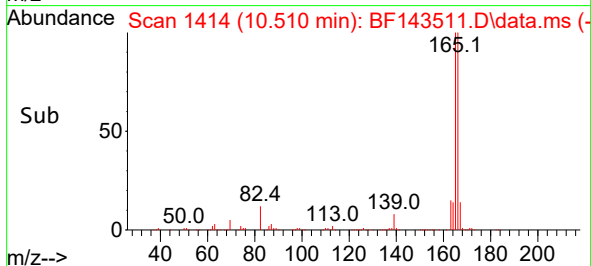
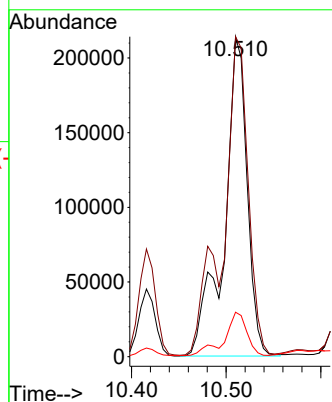
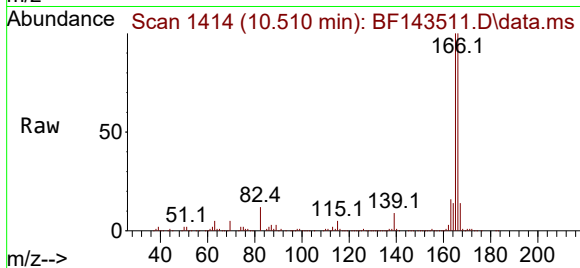
Tgt Ion:166 Resp: 359860

Ion Ratio Lower Upper

166 100

165 100.0 78.3 117.5

167 13.9 11.0 16.4



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.451 min Scan# 1574

Delta R.T. -0.006 min

Lab File: BF143511.D

Acq: 21 Aug 2025 04:21

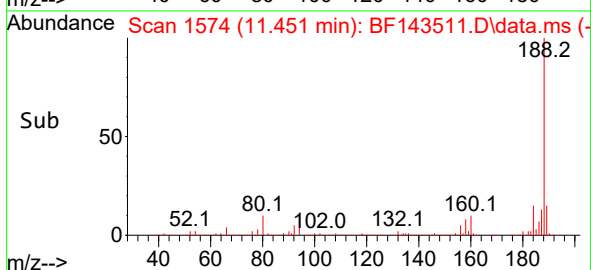
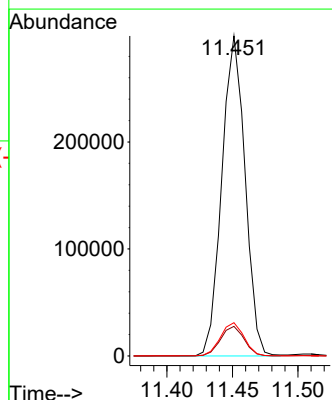
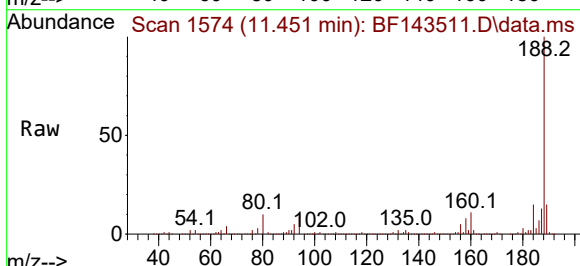
Tgt Ion:188 Resp: 368458

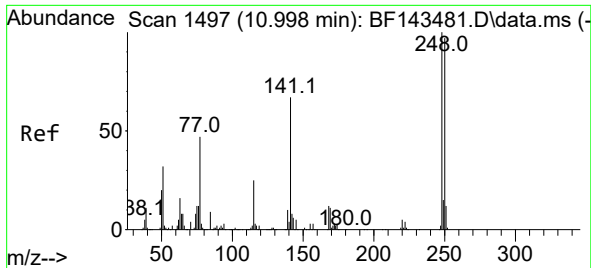
Ion Ratio Lower Upper

188 100

94 9.3 7.4 11.2

80 10.4 8.2 12.4

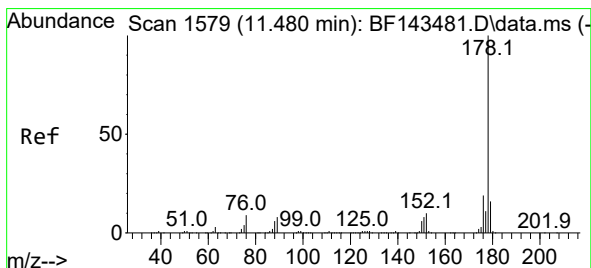
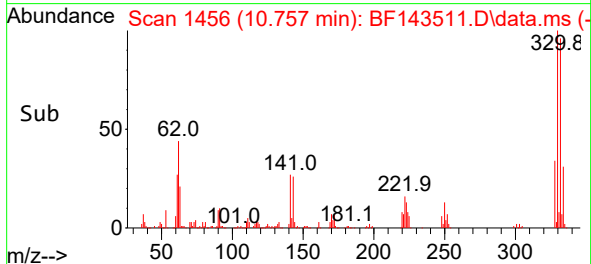
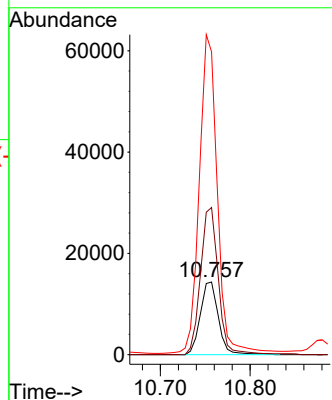
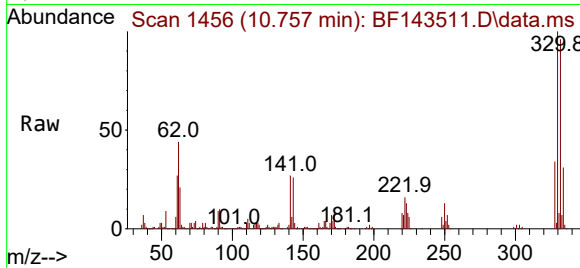




#67
4-Bromophenyl-phenylether
Concen: 4.565 ng
RT: 10.757 min Scan# 1497
Delta R.T. -0.241 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

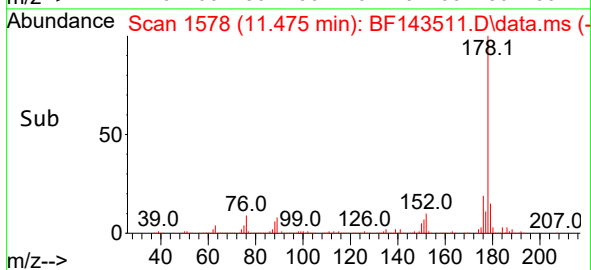
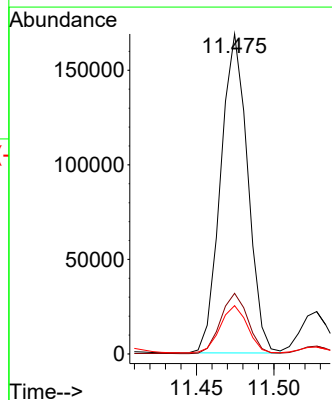
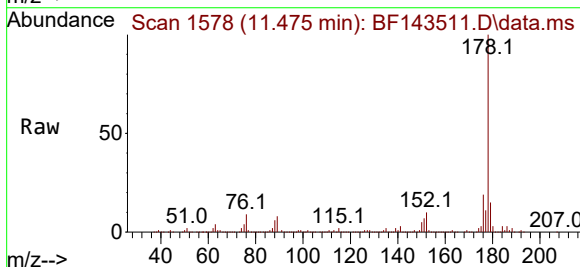
Instrument :
BNA_F
ClientSampleId :
MN-12C-081825

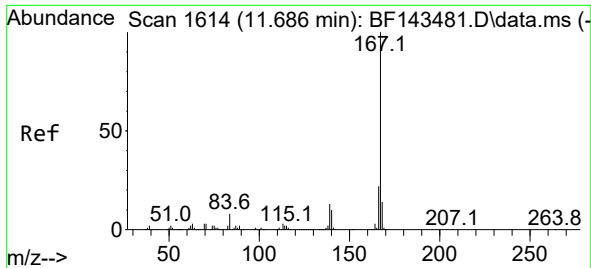
Tgt Ion:248 Resp: 20071
Ion Ratio Lower Upper
248 100
250 202.5 77.8 116.8#
141 416.6 54.0 81.0#



#71
Phenanthrene
Concen: 10.382 ng
RT: 11.475 min Scan# 1578
Delta R.T. -0.006 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

Tgt Ion:178 Resp: 204858
Ion Ratio Lower Upper
178 100
176 19.0 15.5 23.3
179 15.1 12.5 18.7

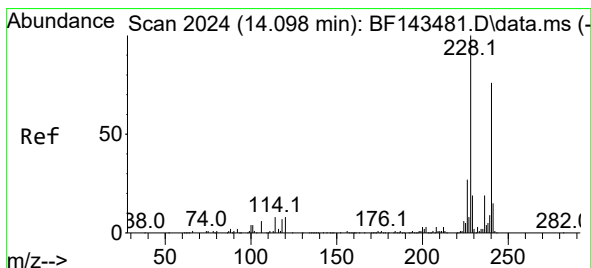
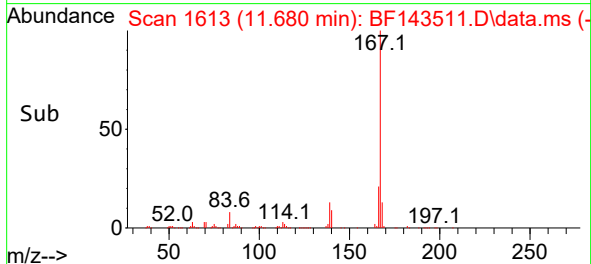
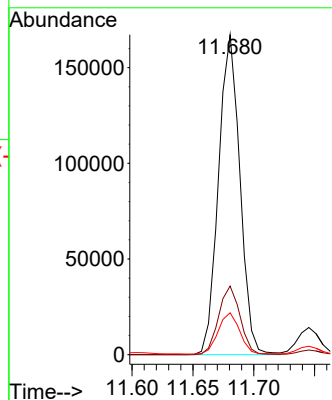
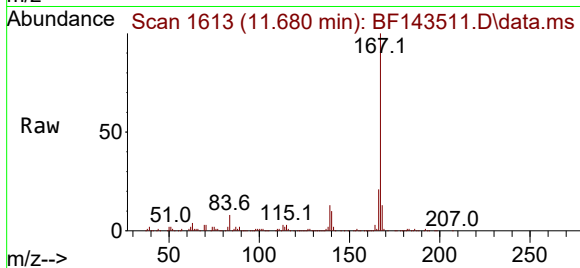




#73
Carbazole
Concen: 12.493 ng
RT: 11.680 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

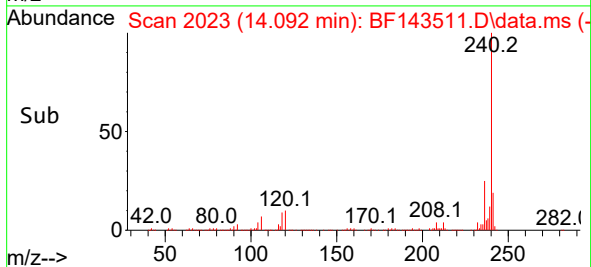
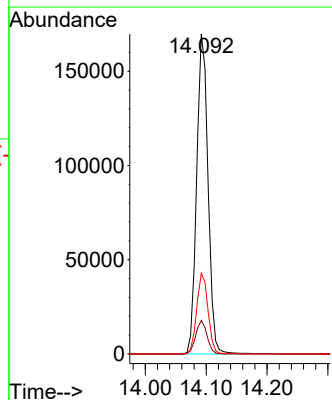
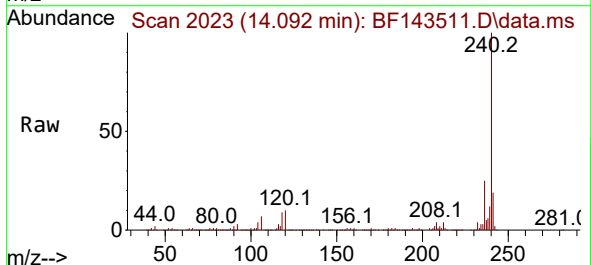
Instrument :
BNA_F
ClientSampleId :
MN-12C-081825

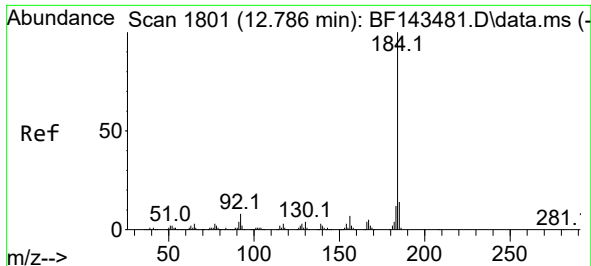
Tgt Ion:167 Resp: 204617
Ion Ratio Lower Upper
167 100
166 21.4 17.3 25.9
139 13.1 10.0 15.0



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

Tgt Ion:240 Resp: 219458
Ion Ratio Lower Upper
240 100
120 10.5 8.6 12.8
236 25.2 20.4 30.6

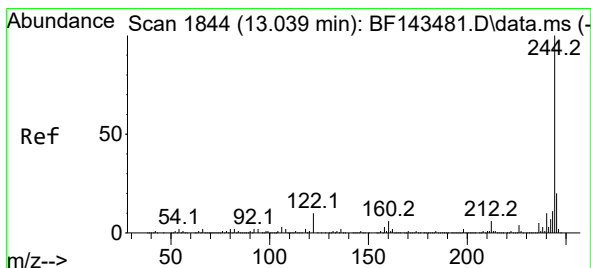
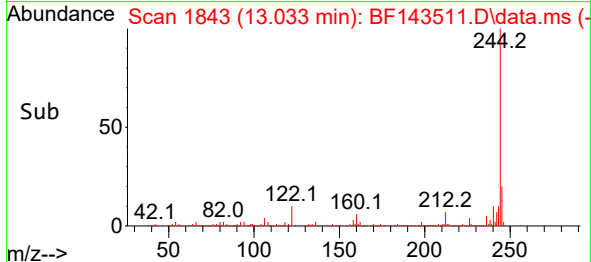
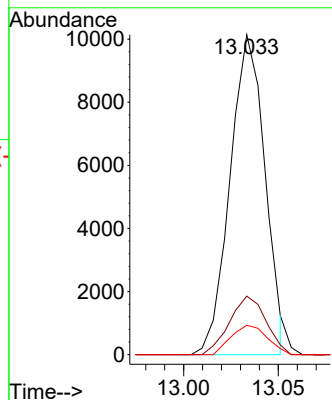
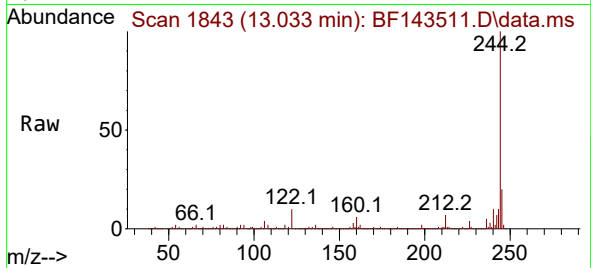




#77
Benzidine
Concen: 2.435 ng
RT: 13.033 min Scan# 1843
Delta R.T. 0.247 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

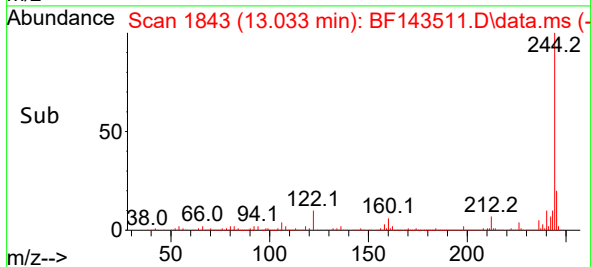
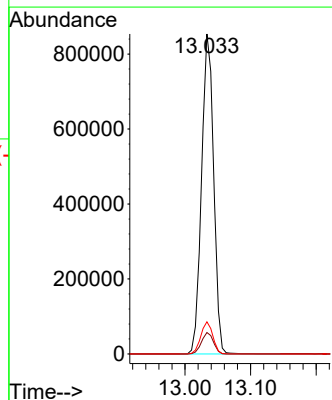
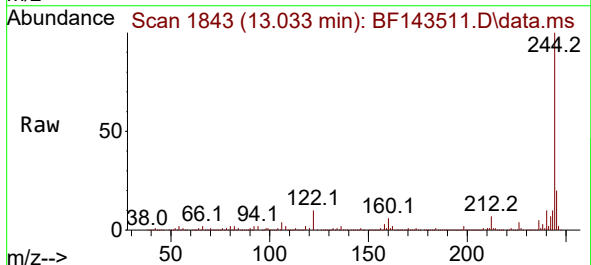
Instrument :
BNA_F
ClientSampleId :
MN-12C-081825

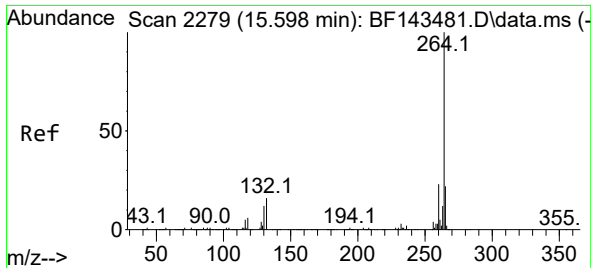
Tgt Ion:184 Resp: 13018
Ion Ratio Lower Upper
184 100
185 18.3 11.3 16.9#
183 9.2 9.5 14.3#



#79
Terphenyl-d14
Concen: 87.379 ng
RT: 13.033 min Scan# 1843
Delta R.T. -0.006 min
Lab File: BF143511.D
Acq: 21 Aug 2025 04:21

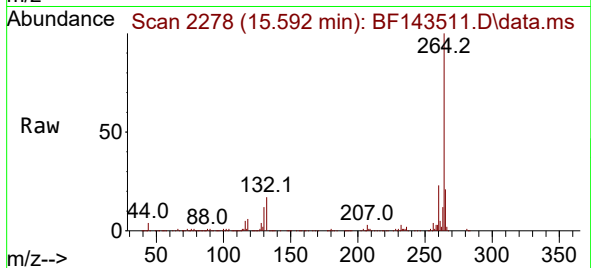
Tgt Ion:244 Resp: 1098890
Ion Ratio Lower Upper
244 100
212 6.7 5.2 7.8
122 10.0 7.9 11.9





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.592 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BF143511.D
 Acq: 21 Aug 2025 04:21

Instrument :
 BNA_F
 ClientSampleId :
 MN-12C-081825



Tgt Ion:264 Resp: 260219
 Ion Ratio Lower Upper
 264 100
 260 23.1 18.7 28.1
 265 21.2 17.6 26.4

