

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032425\
 Data File : BF142051.D
 Acq On : 24 Mar 2025 13:26
 Operator : RC/JU
 Sample : Q1619-13DL 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 24 13:48:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:46:22 2025
 Response via : Initial Calibration

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

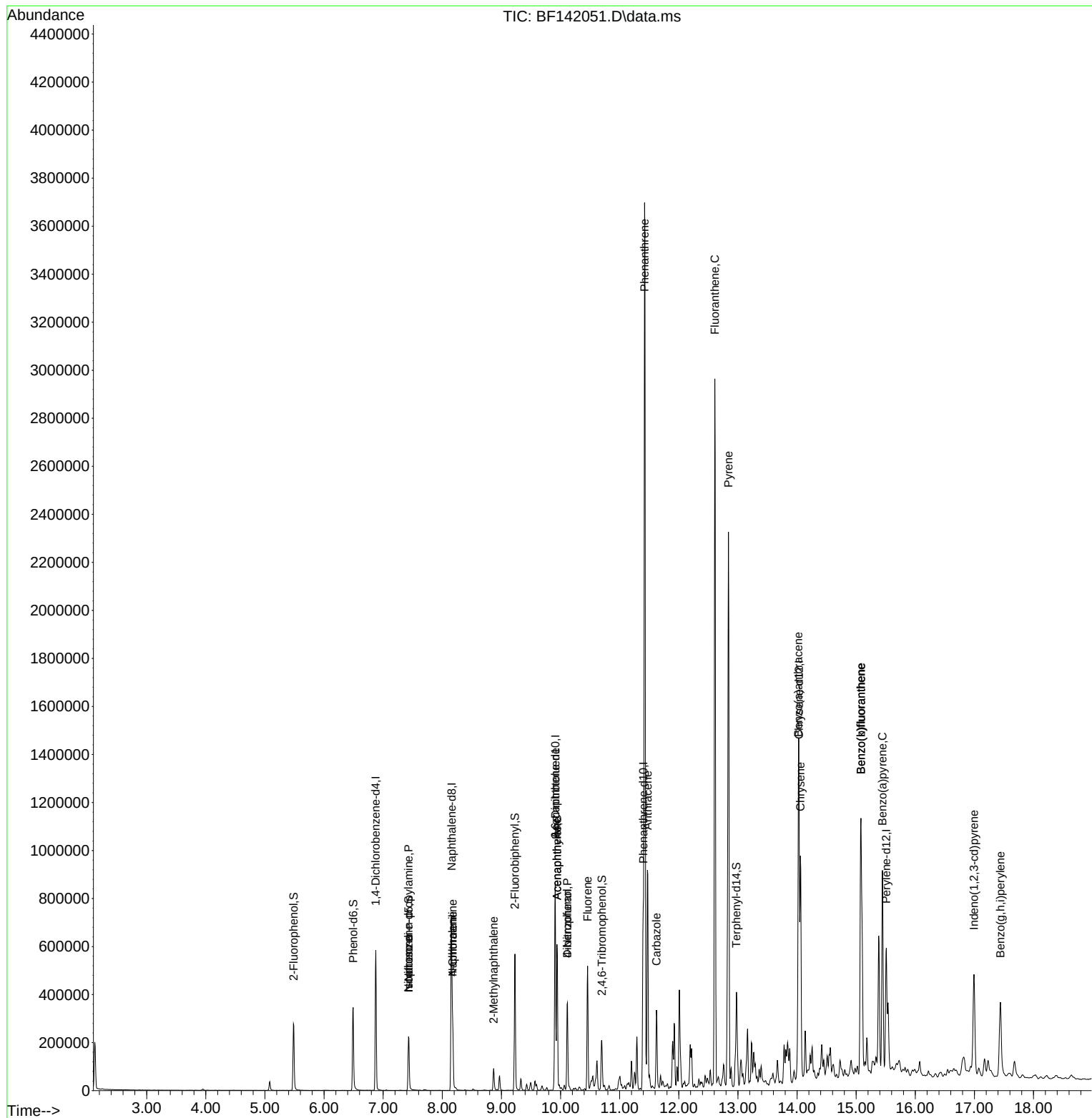
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	129035	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	485875	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	257676	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	381945	20.000	ng	0.00
76) Chrysene-d12	14.033	240	248081	20.000	ng	0.00
86) Perylene-d12	15.510	264	315397	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	119661	15.477	ng	0.00
7) Phenol-d6	6.493	99	178010	18.083	ng	-0.01
23) Nitrobenzene-d5	7.428	82	115546	13.383	ng	-0.02
42) 2,4,6-Tribromophenol	10.698	330	20145	6.163	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	251554	14.847	ng	-0.01
79) Terphenyl-d14	12.975	244	183480	10.935	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.428	70	15397	2.434	ng	# 80
25) Isophorone	7.428	82	111772	7.324	ng	# 64
31) Naphthalene	8.175	128	160130	6.416	ng	99
33) 4-Chloroaniline	8.175	127	20699	2.349	ng	# 33
37) 2-Methylnaphthalene	8.869	142	39238	2.352	ng	99
49) Acenaphthylene	9.939	152	96916	4.475	ng	# 1
51) 2,6-Dinitrotoluene	9.910	165	36262	9.652	ng	# 23
52) Acenaphthene	9.939	154	189322	12.440	ng	100
55) Dibenzofuran	10.116	168	209169	9.619	ng	96
56) 4-Nitrophenol	10.116	139	83735	29.136	ng	# 5
58) Fluorene	10.457	166	202588	12.081	ng	99
71) Phenanthrene	11.422	178	2102101	101.895	ng	100
72) Anthracene	11.475	178	531026	25.657	ng	99
73) Carbazole	11.622	167	178928	10.024	ng	100
75) Fluoranthene	12.610	202	1732053	79.148	ng	99
78) Pyrene	12.839	202	1369653	63.826	ng	99
81) Benzo(a)anthracene	14.022	228	594042	36.491	ng	99
83) Chrysene	14.057	228	508813	34.481	ng	97
87) Indeno(1,2,3-cd)pyrene	16.992	276	324094	15.885	ng	94
88) Benzo(b)fluoranthene	15.080	252	998120	46.175	ng	98
89) Benzo(k)fluoranthene	15.080	252	998120	53.957	ng	99
90) Benzo(a)pyrene	15.445	252	518612	30.662	ng	97
92) Benzo(g,h,i)perylene	17.439	276	298592	17.950	ng	97

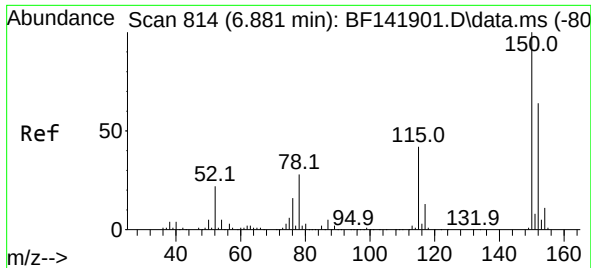
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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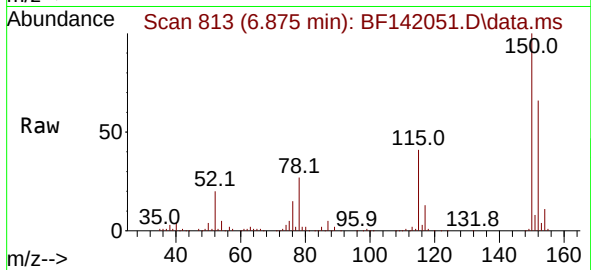
Quant Time: Mar 24 13:48:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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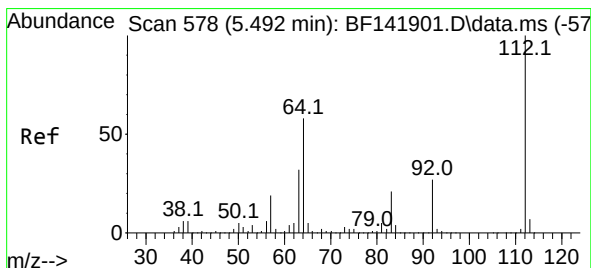
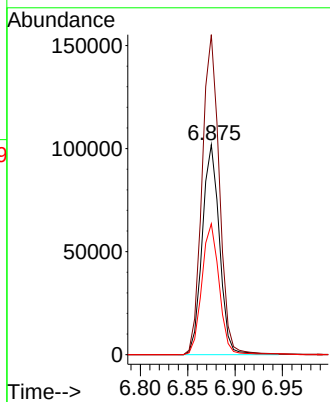
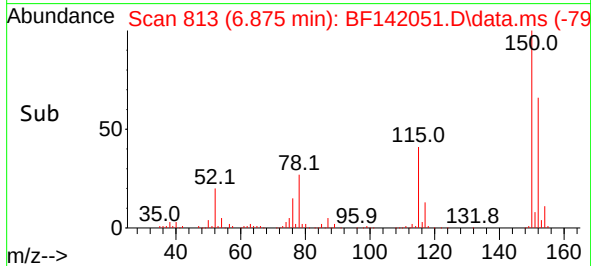


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 814
Delta R.T. -0.006 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

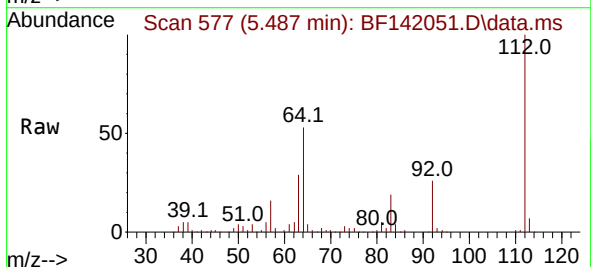
Instrument :
BNA_F
ClientSampleId :



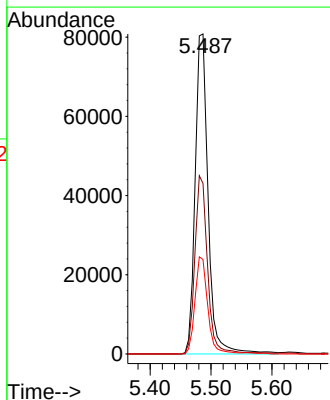
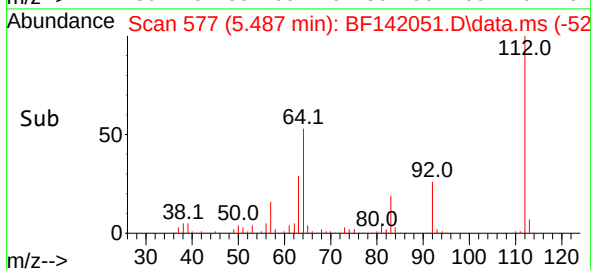
Tgt Ion:152 Resp: 129035
Ion Ratio Lower Upper
152 100
150 152.4 127.4 191.2
115 62.3 51.9 77.9

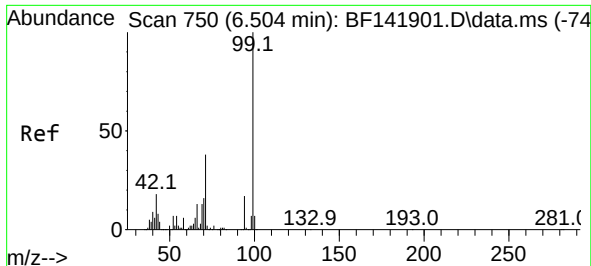


#5
2-Fluorophenol
Concen: 15.477 ng
RT: 5.487 min Scan# 577
Delta R.T. -0.006 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26



Tgt Ion:112 Resp: 119661
Ion Ratio Lower Upper
112 100
64 53.3 46.5 69.7
63 29.5 25.4 38.2

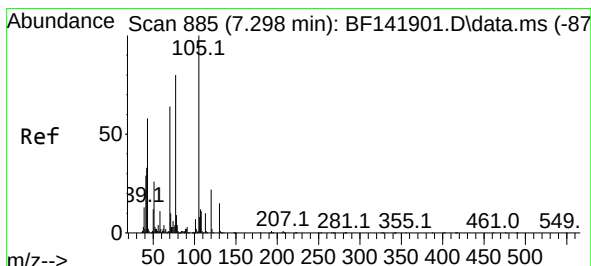
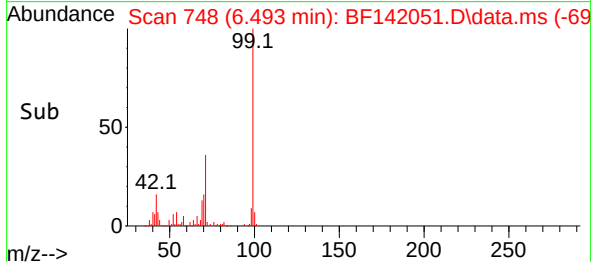
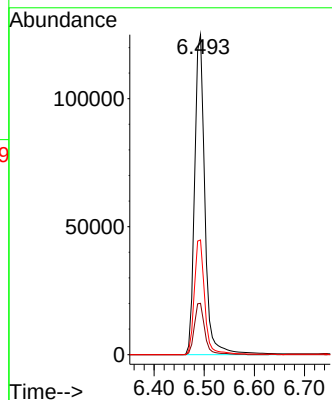
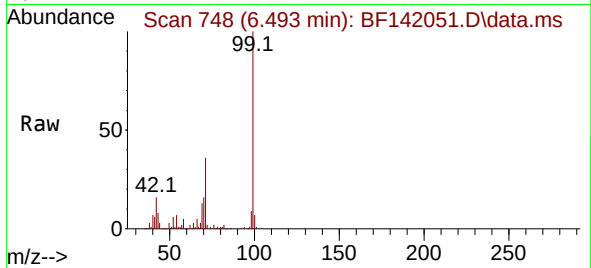




#7
Phenol-d6
Concen: 18.083 ng
RT: 6.493 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

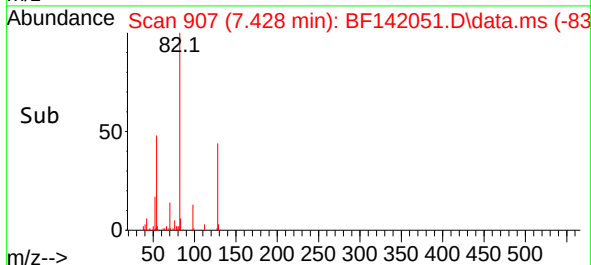
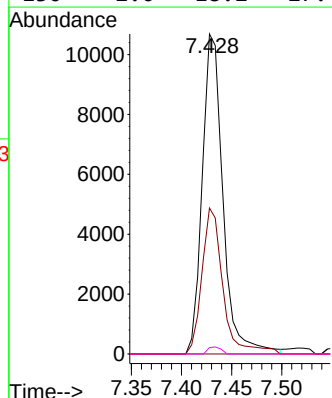
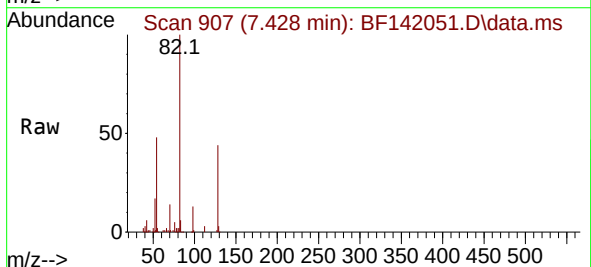
Instrument :
BNA_F
ClientSampleId :

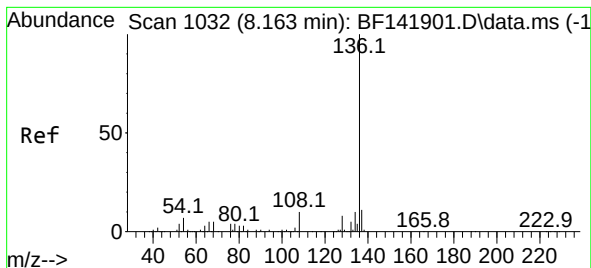
Tgt Ion: 99 Resp: 178010
Ion Ratio Lower Upper
99 100
42 16.1 14.6 21.8
71 35.9 30.8 46.2



#19
n-Nitroso-di-n-propylamine
Concen: 2.434 ng
RT: 7.428 min Scan# 907
Delta R.T. 0.130 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

Tgt Ion: 70 Resp: 15397
Ion Ratio Lower Upper
70 100
42 45.6 41.4 62.0
101 0.0 8.2 12.2#
130 2.0 18.2 27.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.157 min Scan# 1

Delta R.T. -0.006 min

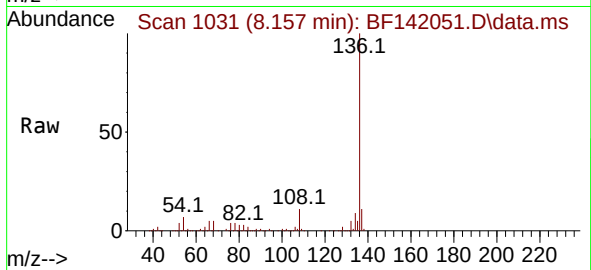
Lab File: BF142051.D

Acq: 24 Mar 2025 13:26

Instrument :

BNA_F

ClientSampleId :



Tgt Ion:136 Resp: 485875

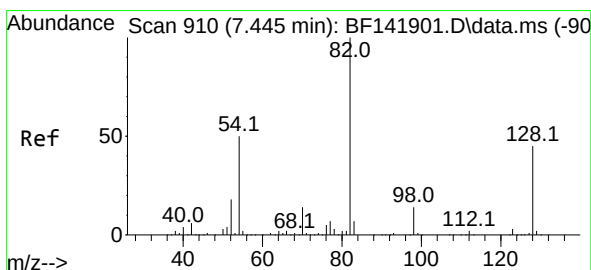
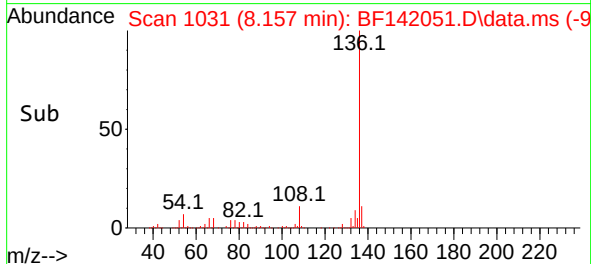
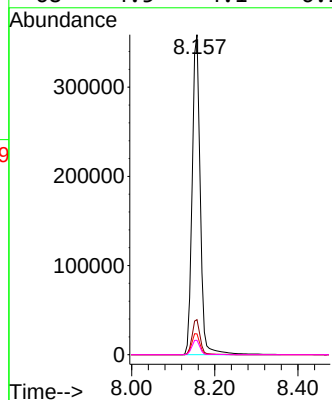
Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

54 6.5 5.8 8.8

68 4.5 4.1 6.1



#23

Nitrobenzene-d5

Concen: 13.383 ng

RT: 7.428 min Scan# 907

Delta R.T. -0.017 min

Lab File: BF142051.D

Acq: 24 Mar 2025 13:26

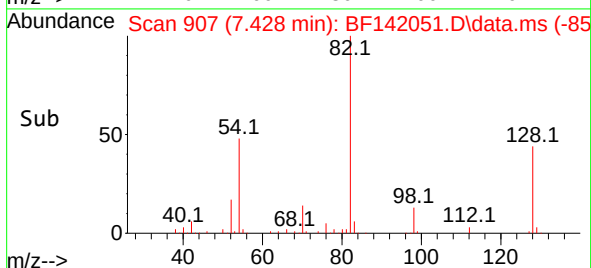
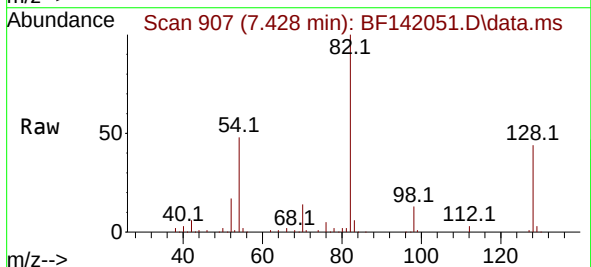
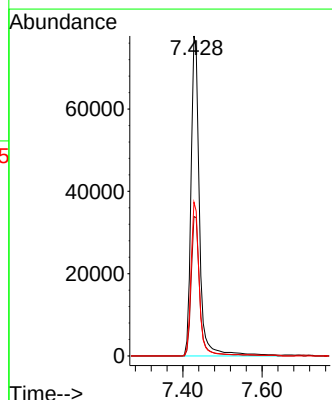
Tgt Ion: 82 Resp: 115546

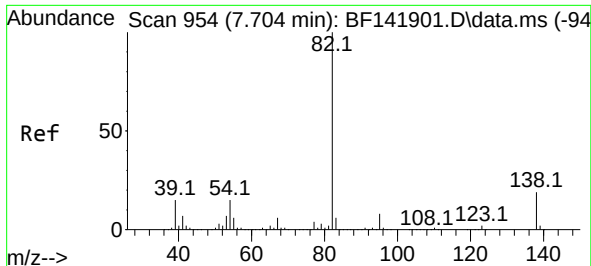
Ion Ratio Lower Upper

82 100

128 43.5 36.0 54.0

54 48.0 39.6 59.4

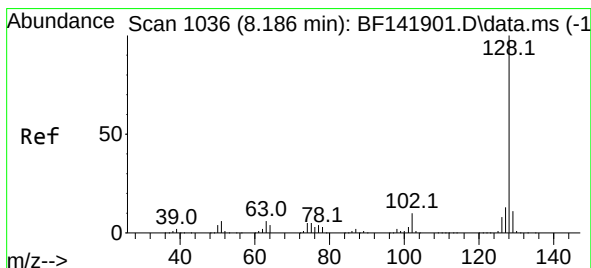
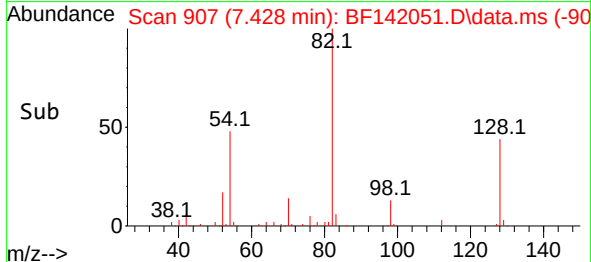
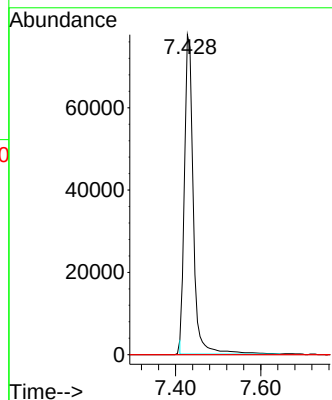
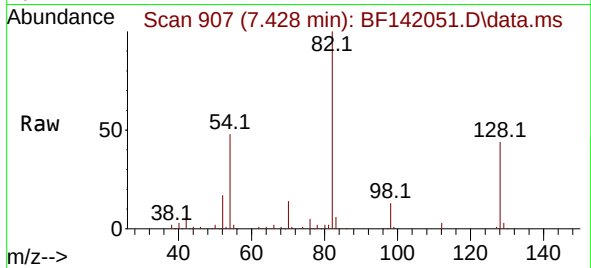




#25
Isophorone
Concen: 7.324 ng
RT: 7.428 min Scan# 90
Delta R.T. -0.276 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

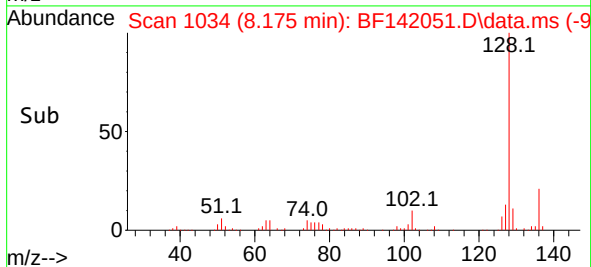
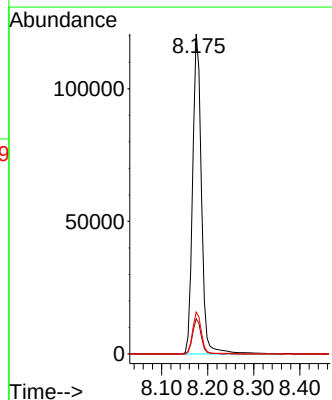
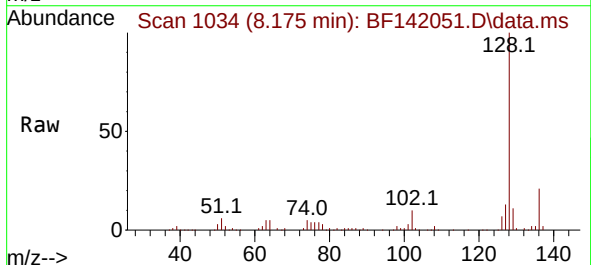
Instrument :
BNA_F
ClientSampleId :

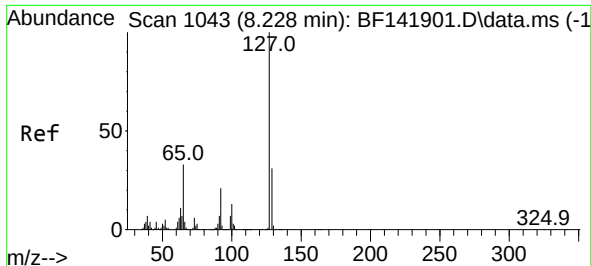
Tgt Ion: 82 Resp: 111772
Ion Ratio Lower Upper
82 100
95 0.0 6.4 9.6#
138 0.0 14.9 22.3#



#31
Naphthalene
Concen: 6.416 ng
RT: 8.175 min Scan# 1034
Delta R.T. -0.012 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

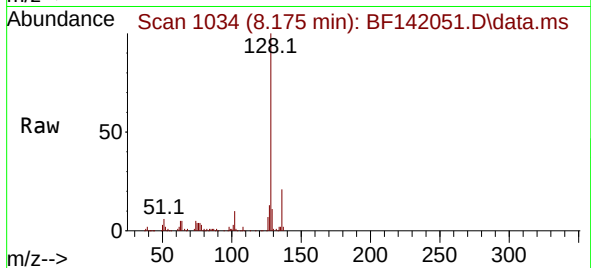
Tgt Ion:128 Resp: 160130
Ion Ratio Lower Upper
128 100
129 11.0 9.0 13.6
127 13.1 10.8 16.2



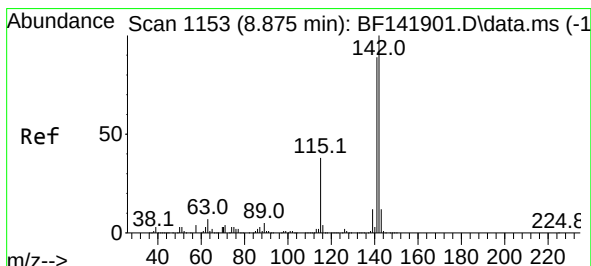
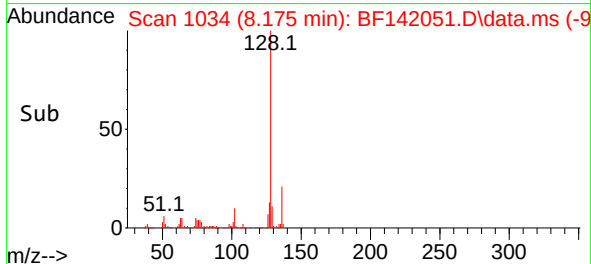
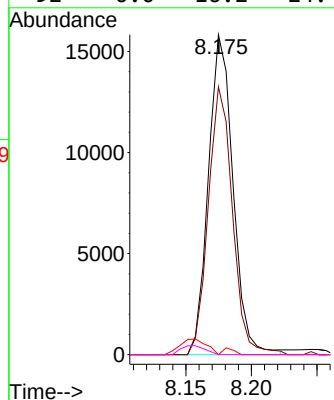


#33
4-Chloroaniline
Concen: 2.349 ng
RT: 8.175 min Scan# 1034
Delta R.T. -0.053 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

Instrument :
BNA_F
ClientSampleId :

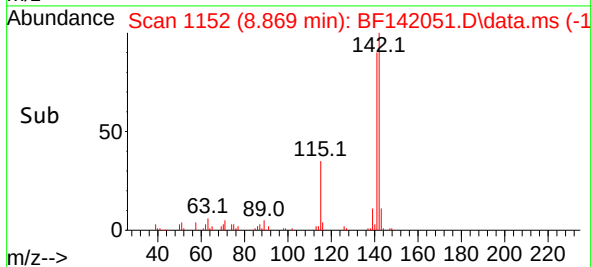
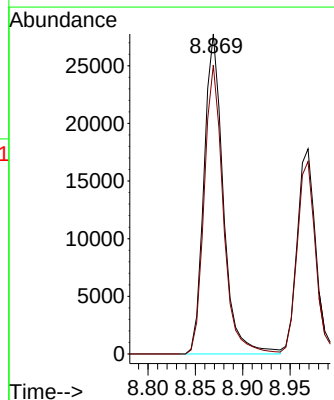
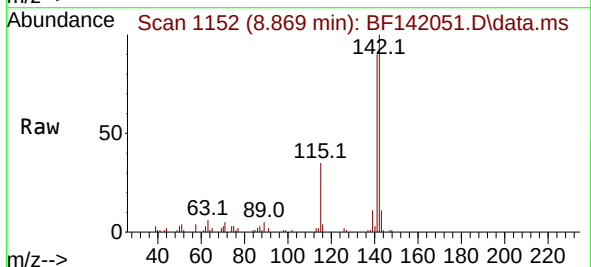


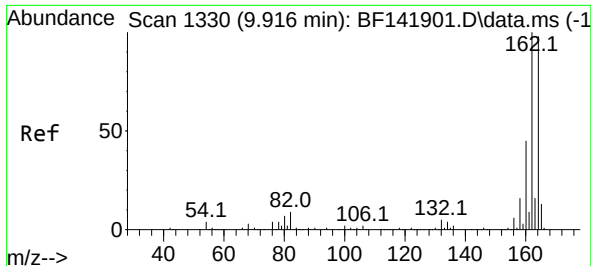
Tgt Ion:127	Resp:	20699
Ion	Ratio	Lower Upper
127	100	
129	83.7	26.2 39.4#
65	0.0	25.4 38.2#
92	0.0	16.2 24.4#



#37
2-Methylnaphthalene
Concen: 2.352 ng
RT: 8.869 min Scan# 1152
Delta R.T. -0.006 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

Tgt Ion:142	Resp:	39238
Ion	Ratio	Lower Upper
142	100	
141	90.3	71.2 106.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.910 min Scan# 11

Delta R.T. -0.006 min

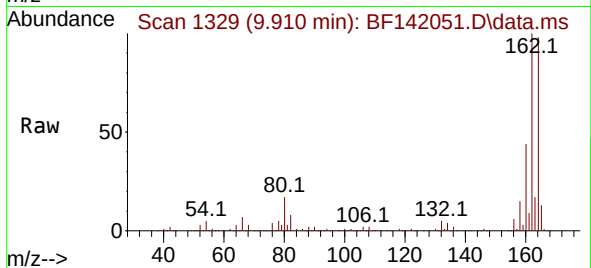
Lab File: BF142051.D

Acq: 24 Mar 2025 13:26

Instrument :

BNA_F

ClientSampleId :



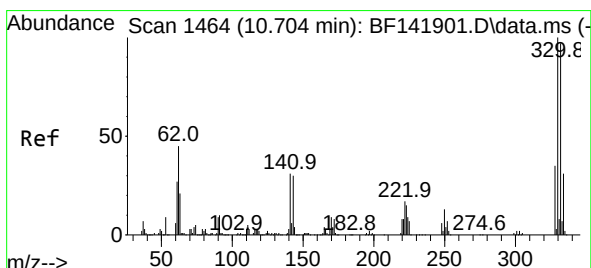
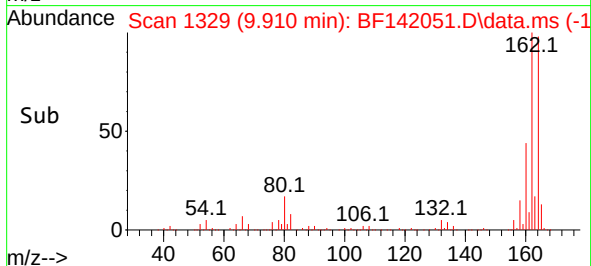
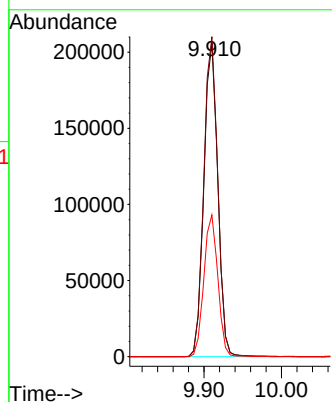
Tgt Ion:164 Resp: 257676

Ion	Ratio	Lower	Upper
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164	100		
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162	102.0	81.8	122.6
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160	45.2	36.7	55.1
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#42

2,4,6-Tribromophenol

Concen: 6.163 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.006 min

Lab File: BF142051.D

Acq: 24 Mar 2025 13:26

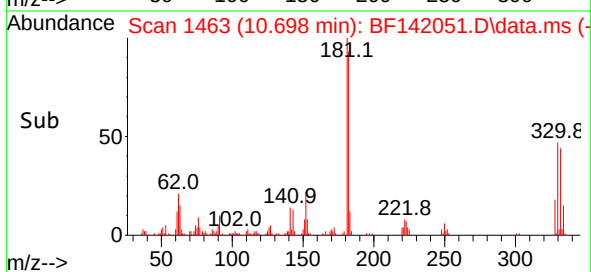
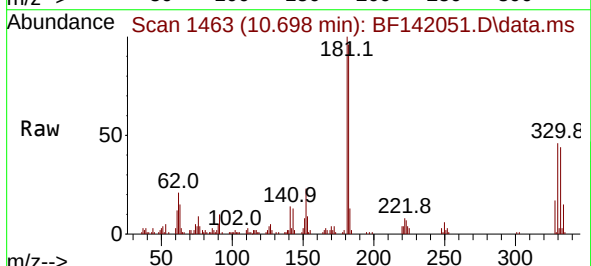
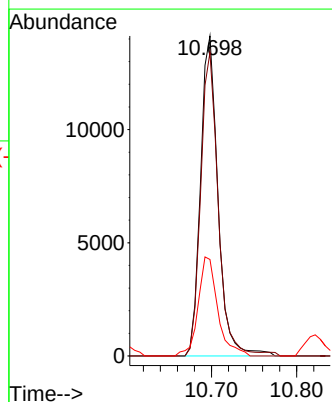
Tgt Ion:330 Resp: 20145

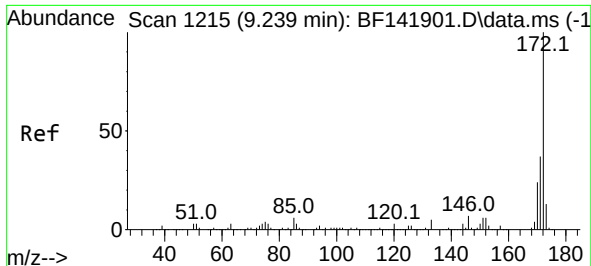
Ion	Ratio	Lower	Upper
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330	100		
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332	95.5	77.6	116.4
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141	34.6	24.7	37.1
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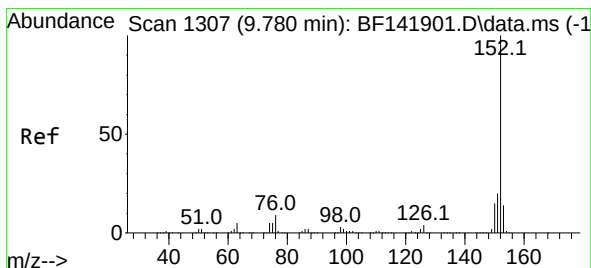
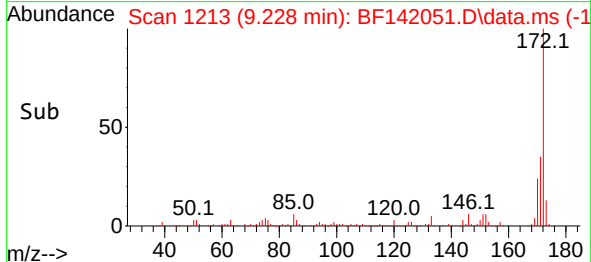
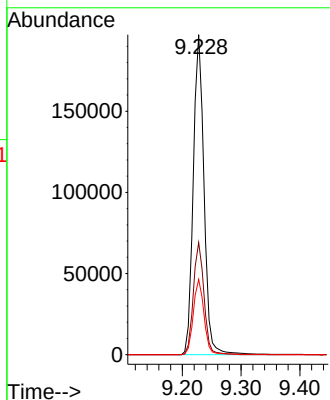
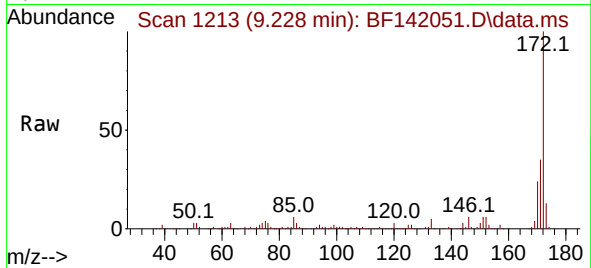




#45
2-Fluorobiphenyl
Concen: 14.847 ng
RT: 9.228 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

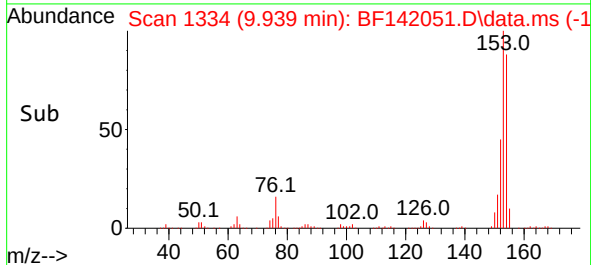
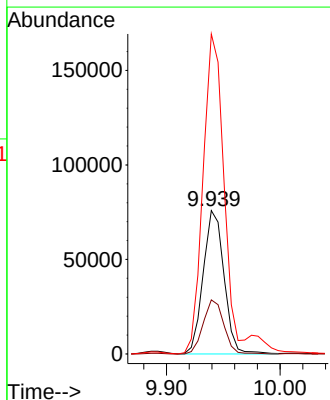
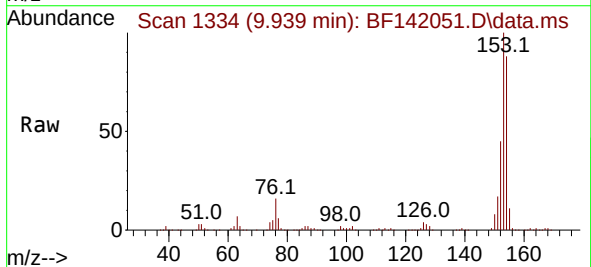
Instrument :
BNA_F
ClientSampleId :

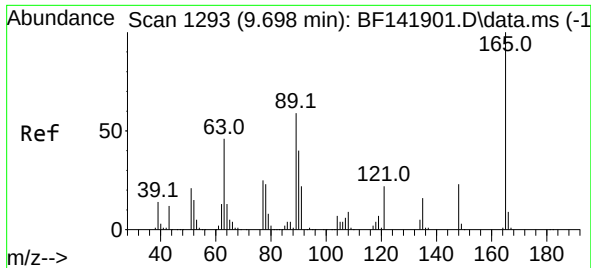
Tgt Ion:172 Resp: 251554
Ion Ratio Lower Upper
172 100
171 35.0 29.3 43.9
170 23.5 19.4 29.0



#49
Acenaphthylene
Concen: 4.475 ng
RT: 9.939 min Scan# 1334
Delta R.T. 0.159 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

Tgt Ion:152 Resp: 96916
Ion Ratio Lower Upper
152 100
151 37.8 16.3 24.5#
153 223.2 11.1 16.7#

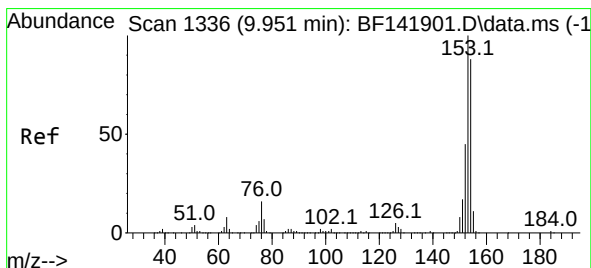
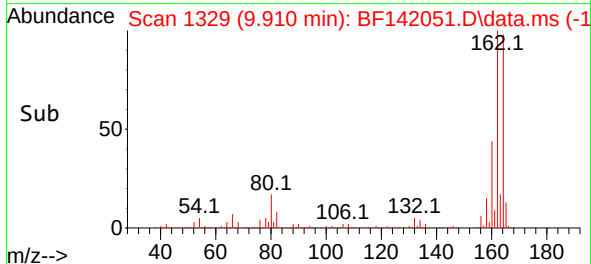
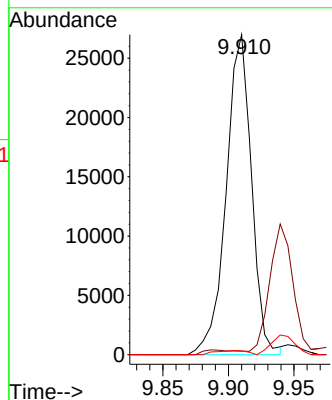
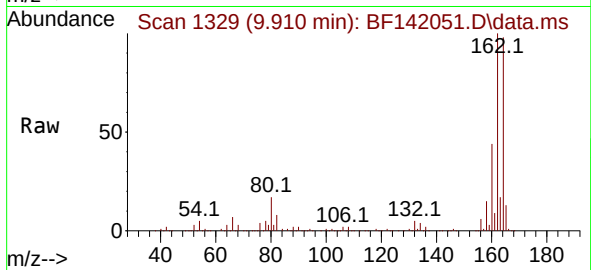




#51
2,6-Dinitrotoluene
Concen: 9.652 ng
RT: 9.910 min Scan# 11
Delta R.T. 0.212 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

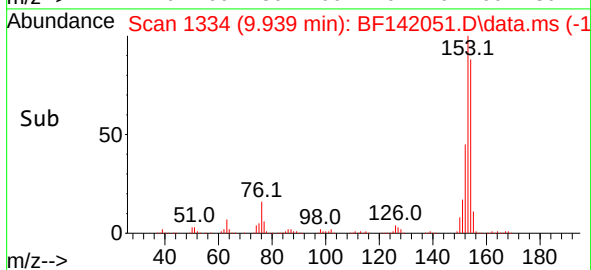
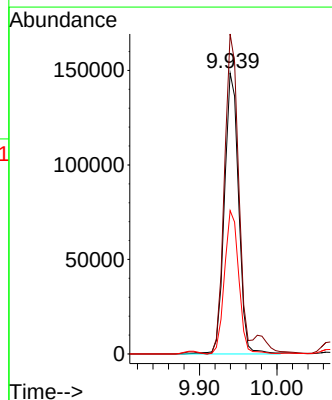
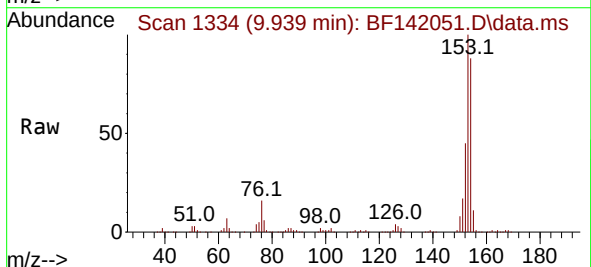
Instrument :
BNA_F
ClientSampleId :

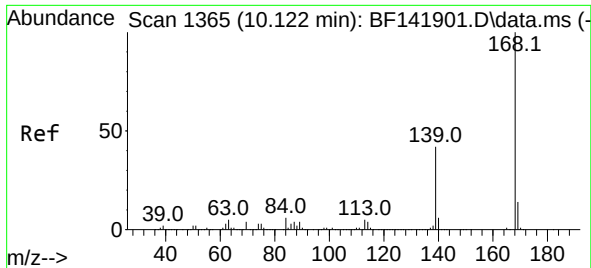
Tgt Ion:165 Resp: 36262
Ion Ratio Lower Upper
165 100
63 1.1 47.0 70.4#
89 1.2 47.4 71.2#



#52
Acenaphthene
Concen: 12.440 ng
RT: 9.939 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

Tgt Ion:154 Resp: 189322
Ion Ratio Lower Upper
154 100
153 113.9 90.7 136.1
152 51.0 41.1 61.7

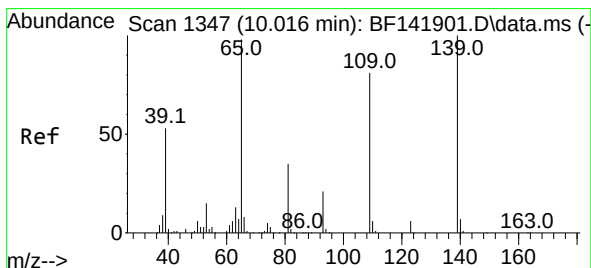
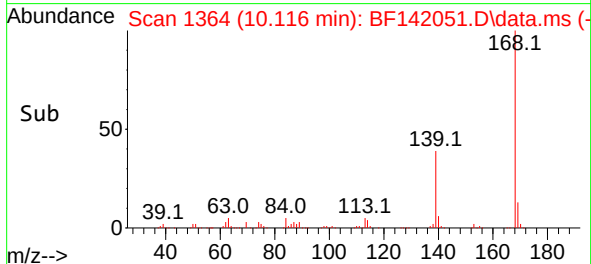
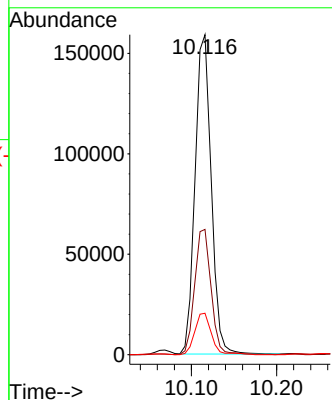
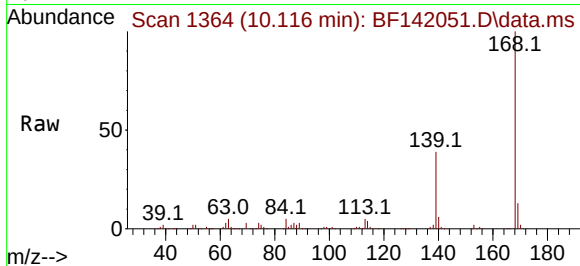




#55
Dibenzenofuran
Concen: 9.619 ng
RT: 10.116 min Scan# 1364
Delta R.T. -0.006 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

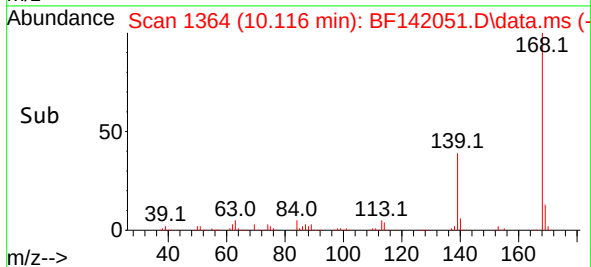
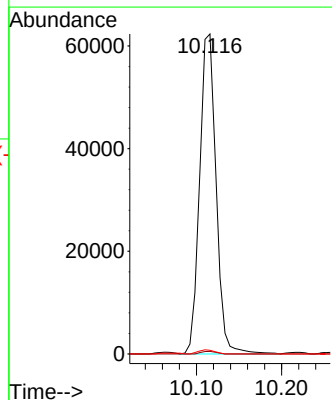
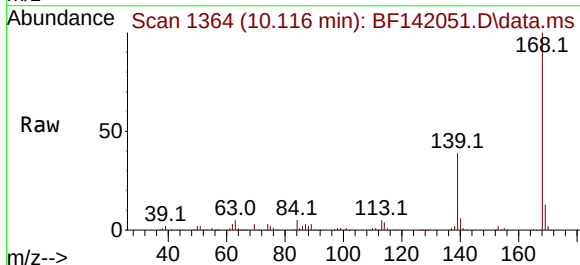
Instrument :
BNA_F
ClientSampleId :

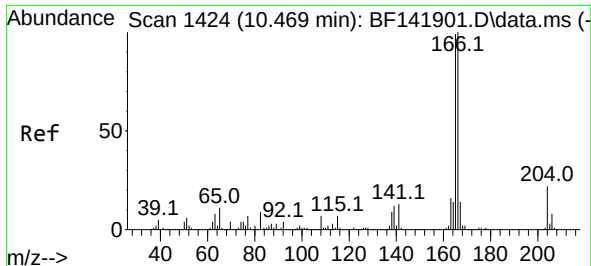
Tgt Ion:168 Resp: 209169
Ion Ratio Lower Upper
168 100
139 39.1 33.9 50.9
169 13.0 11.0 16.4



#56
4-Nitrophenol
Concen: 29.136 ng
RT: 10.116 min Scan# 1364
Delta R.T. 0.100 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

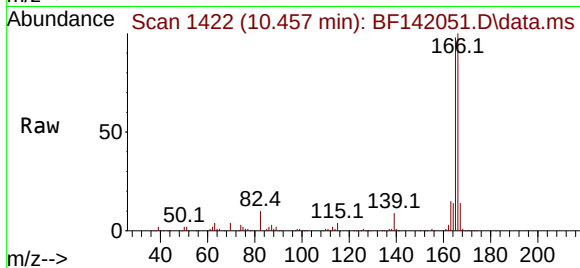
Tgt Ion:139 Resp: 83735
Ion Ratio Lower Upper
139 100
109 0.8 61.6 101.6#
65 1.2 79.4 119.4#



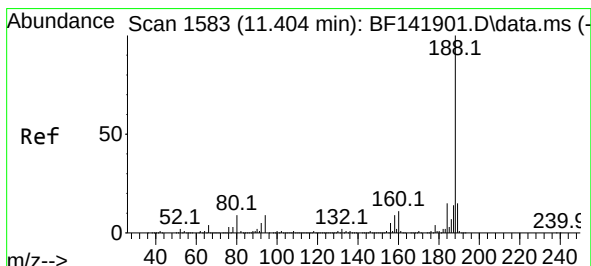
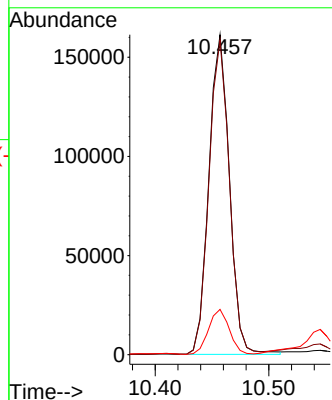
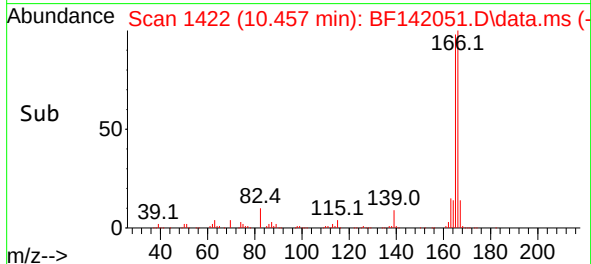


#58
Fluorene
Concen: 12.081 ng
RT: 10.457 min Scan# 1422
Delta R.T. -0.012 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

Instrument :
BNA_F
ClientSampleId :

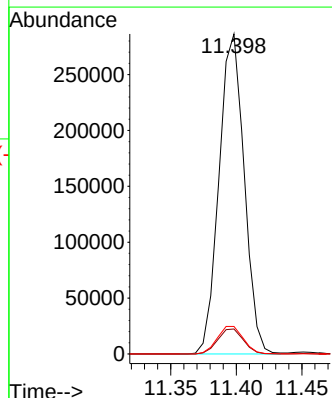
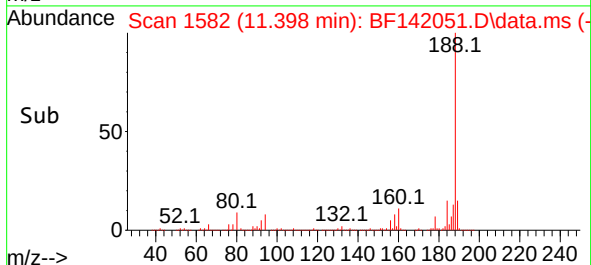
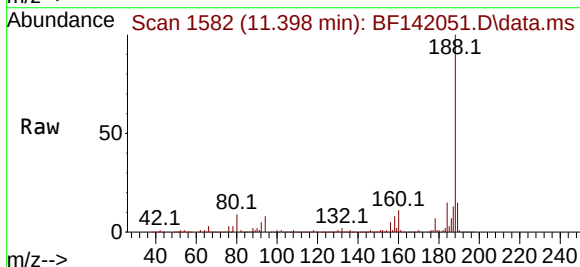


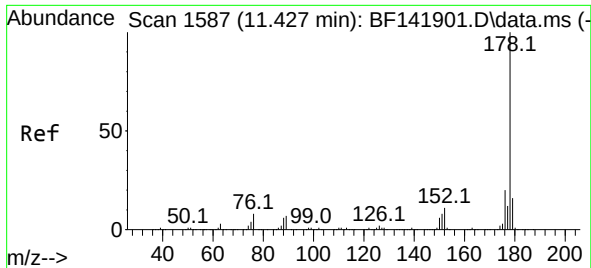
Tgt Ion:166 Resp: 202588
Ion Ratio Lower Upper
166 100
165 98.3 79.0 118.4
167 14.2 11.0 16.4



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

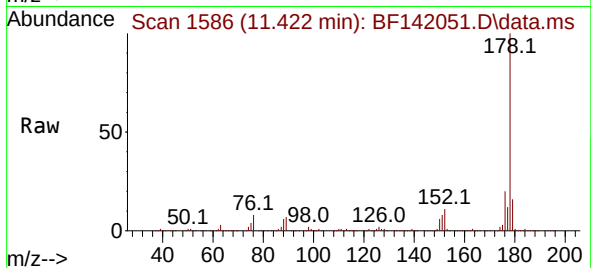
Tgt Ion:188 Resp: 381945
Ion Ratio Lower Upper
188 100
94 7.8 6.8 10.2
80 8.6 7.6 11.4



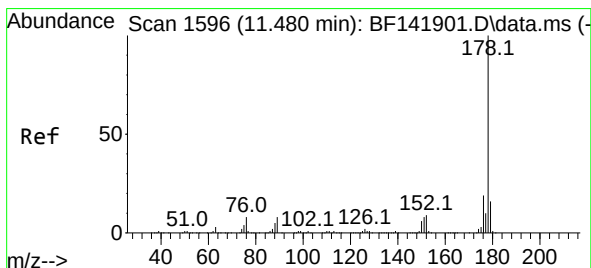
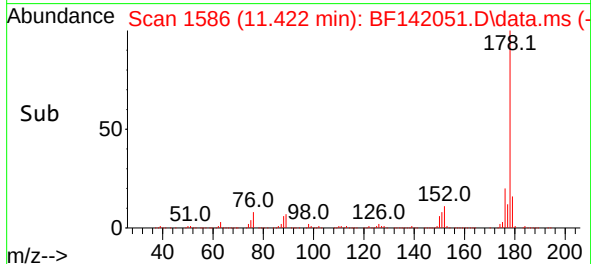
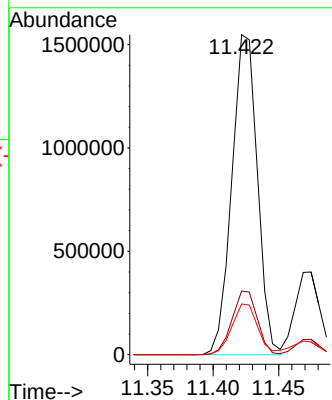


#71
Phenanthrene
Concen: 101.895 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

Instrument :
BNA_F
ClientSampleId :

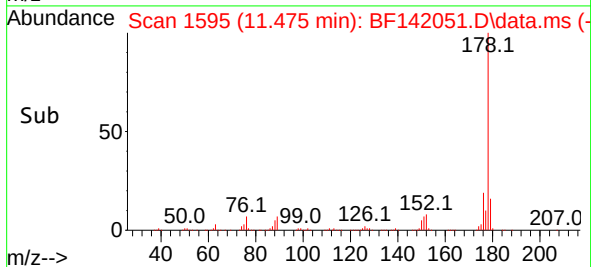
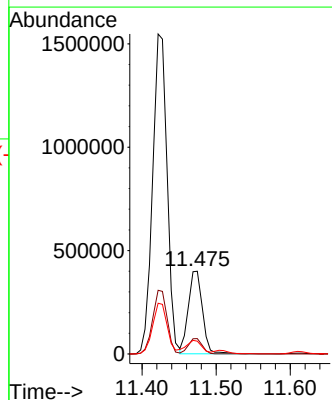
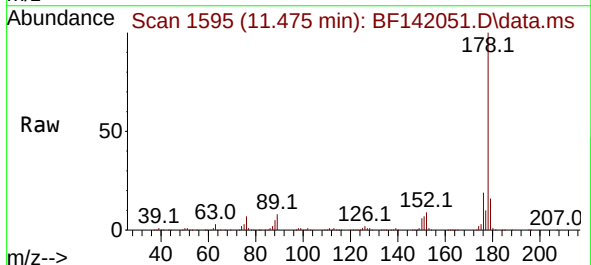


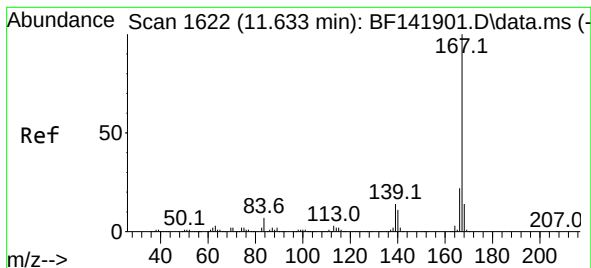
Tgt Ion:178 Resp: 2102101
Ion Ratio Lower Upper
178 100
176 19.9 15.8 23.8
179 15.9 12.6 19.0



#72
Anthracene
Concen: 25.657 ng
RT: 11.475 min Scan# 1595
Delta R.T. -0.006 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

Tgt Ion:178 Resp: 531026
Ion Ratio Lower Upper
178 100
176 18.5 15.1 22.7
179 15.5 12.6 19.0





#73

Carbazole

Concen: 10.024 ng

RT: 11.622 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142051.D

Acq: 24 Mar 2025 13:26

Instrument :

BNA_F

ClientSampleId :

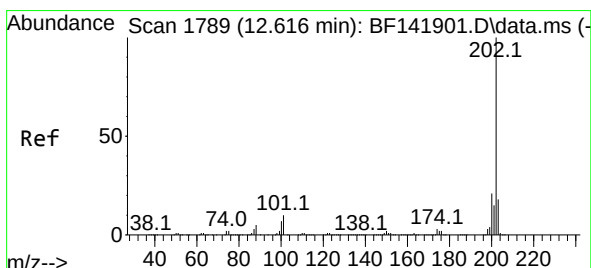
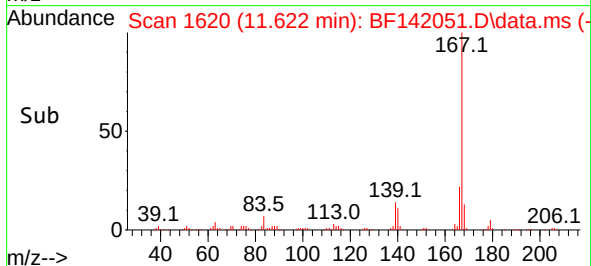
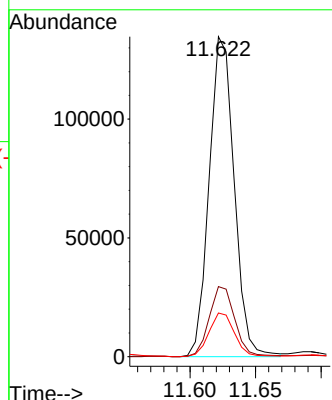
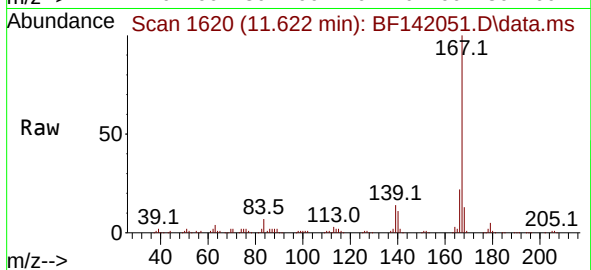
Tgt Ion:167 Resp: 178928

Ion Ratio Lower Upper

167 100

166 21.9 17.4 26.2

139 13.7 11.0 16.6



#75

Fluoranthene

Concen: 79.148 ng

RT: 12.610 min Scan# 1788

Delta R.T. -0.006 min

Lab File: BF142051.D

Acq: 24 Mar 2025 13:26

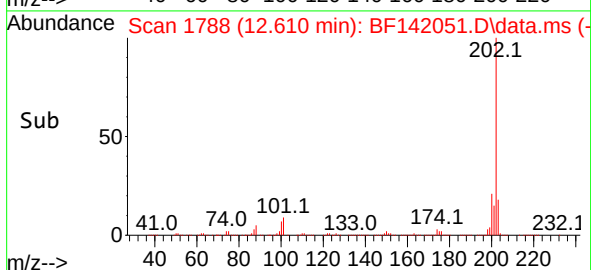
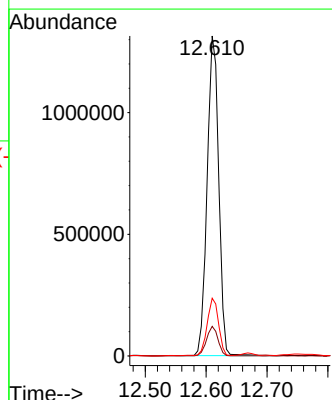
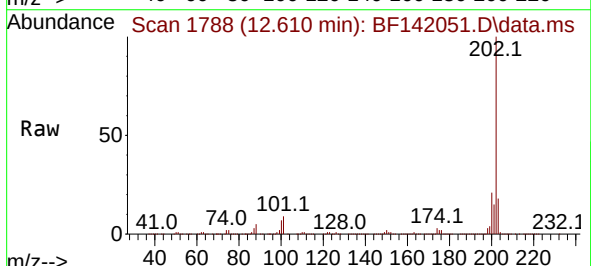
Tgt Ion:202 Resp: 1732053

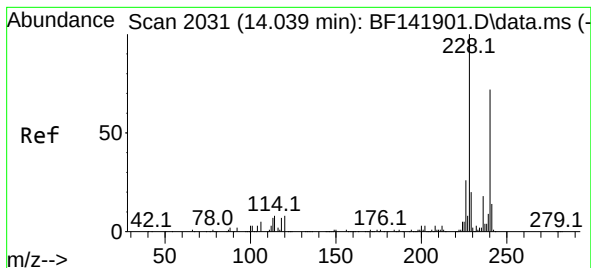
Ion Ratio Lower Upper

202 100

101 9.3 0.0 29.7

203 18.0 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2030

Delta R.T. -0.006 min

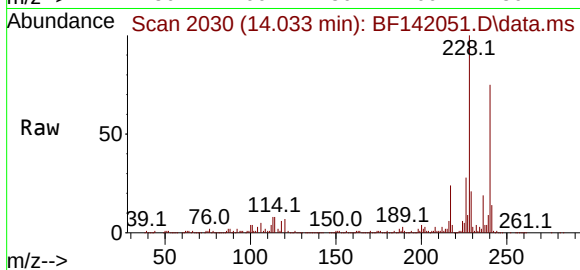
Lab File: BF142051.D

Acq: 24 Mar 2025 13:26

Instrument :

BNA_F

ClientSampleId :



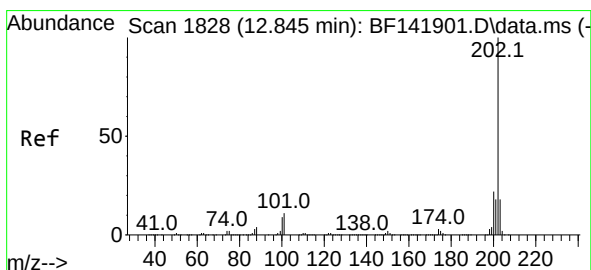
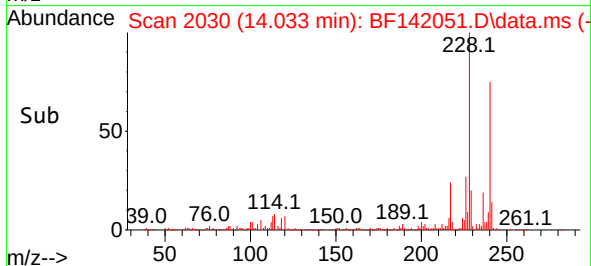
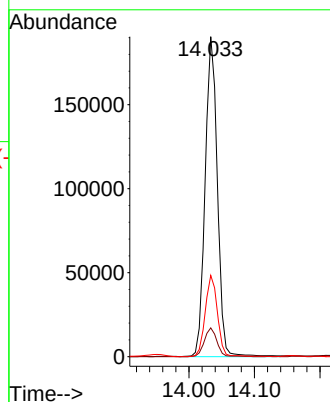
Tgt Ion:240 Resp: 248081

Ion Ratio Lower Upper

240 100

120 9.0 8.4 12.6

236 25.4 20.5 30.7



#78

Pyrene

Concen: 63.826 ng

RT: 12.839 min Scan# 1827

Delta R.T. -0.006 min

Lab File: BF142051.D

Acq: 24 Mar 2025 13:26

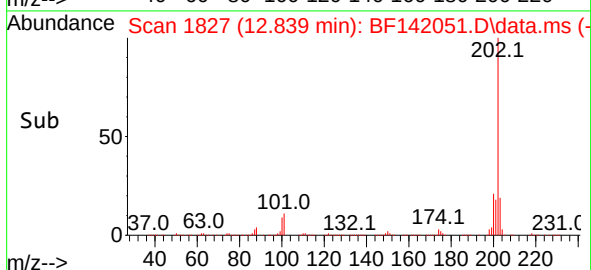
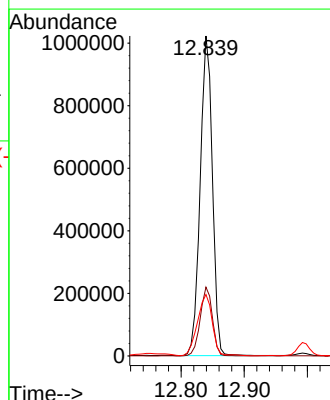
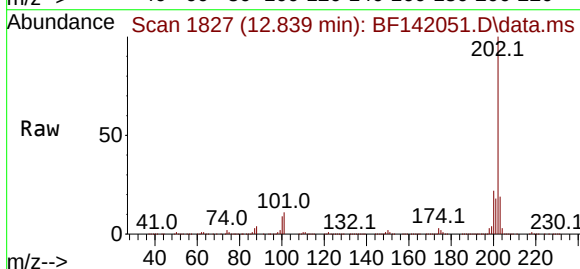
Tgt Ion:202 Resp: 1369653

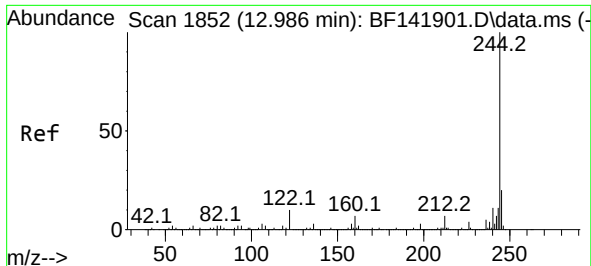
Ion Ratio Lower Upper

202 100

200 21.5 17.3 25.9

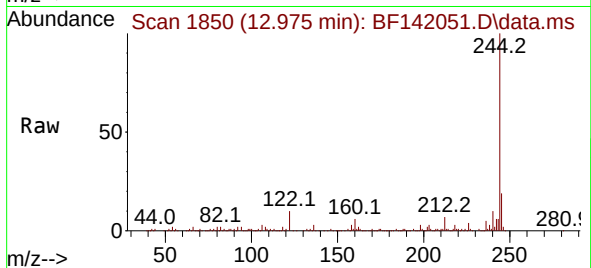
203 19.2 14.4 21.6



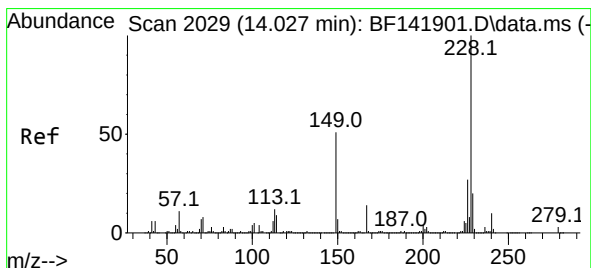
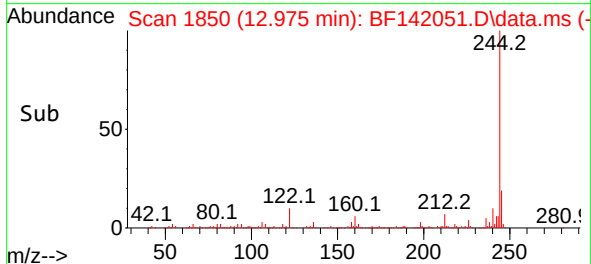
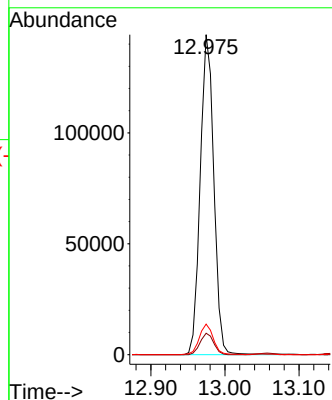


#79
 Terphenyl-d14
 Concen: 10.935 ng
 RT: 12.975 min Scan# 1850
 Delta R.T. -0.012 min
 Lab File: BF142051.D
 Acq: 24 Mar 2025 13:26

Instrument :
 BNA_F
 ClientSampleId :

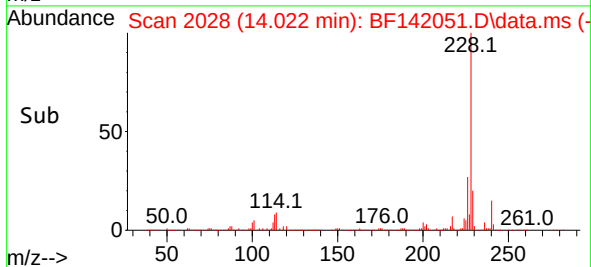
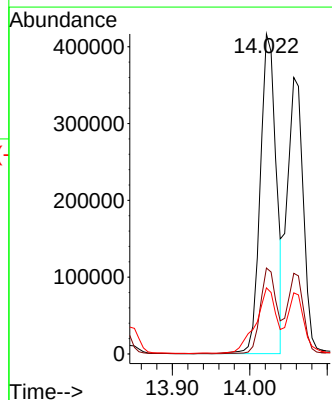
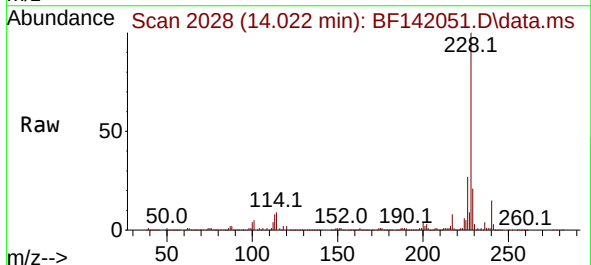


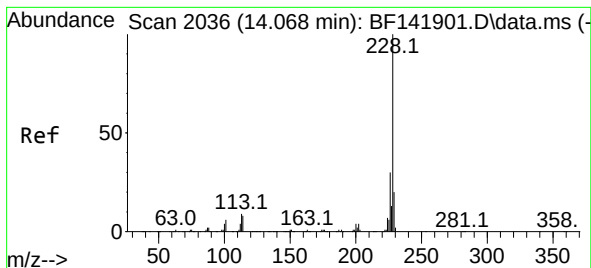
Tgt Ion:244 Resp: 183480
 Ion Ratio Lower Upper
 244 100
 212 6.7 6.0 9.0
 122 9.6 7.7 11.5



#81
 Benzo(a)anthracene
 Concen: 36.491 ng
 RT: 14.022 min Scan# 2028
 Delta R.T. -0.006 min
 Lab File: BF142051.D
 Acq: 24 Mar 2025 13:26

Tgt Ion:228 Resp: 594042
 Ion Ratio Lower Upper
 228 100
 226 26.9 21.8 32.8
 229 20.6 16.0 24.0





#83

Chrysene

Concen: 34.481 ng

RT: 14.057 min Scan# 2034

Delta R.T. -0.012 min

Lab File: BF142051.D

Acq: 24 Mar 2025 13:26

Instrument :

BNA_F

ClientSampleId :

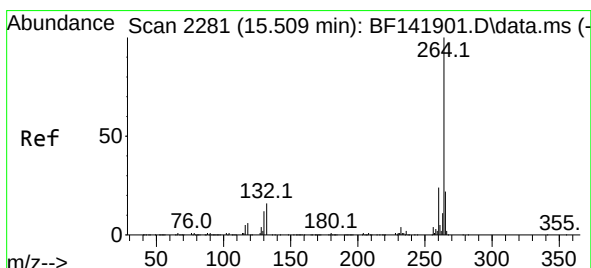
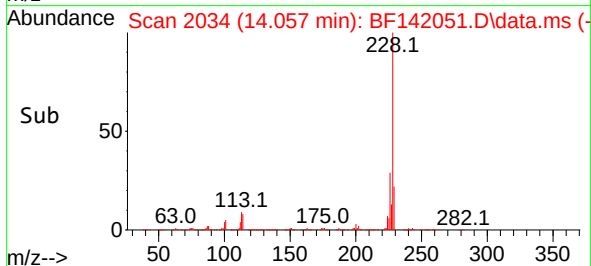
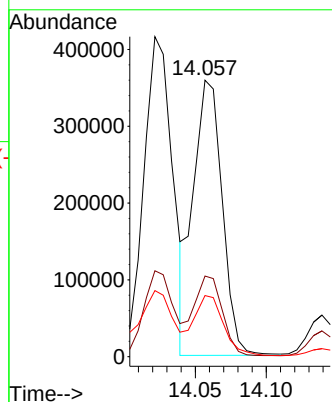
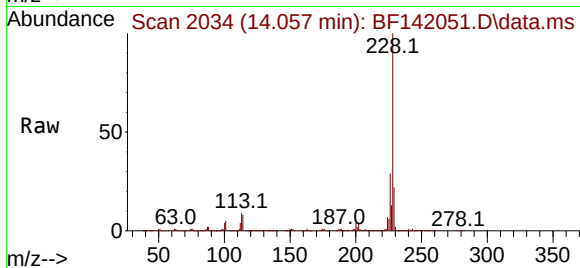
Tgt Ion:228 Resp: 508813

Ion Ratio Lower Upper

228 100

226 29.2 24.1 36.1

229 22.1 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 2281

Delta R.T. 0.000 min

Lab File: BF142051.D

Acq: 24 Mar 2025 13:26

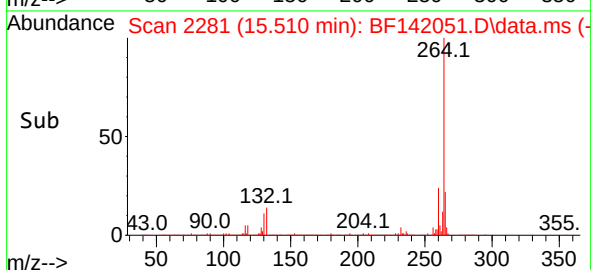
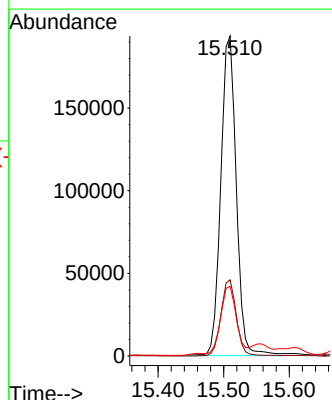
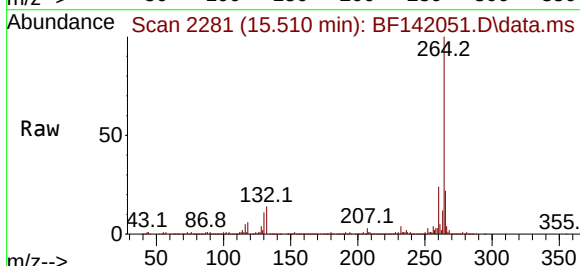
Tgt Ion:264 Resp: 315397

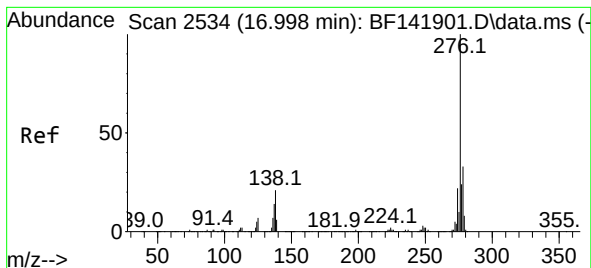
Ion Ratio Lower Upper

264 100

260 23.8 19.1 28.7

265 21.8 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 15.885 ng

RT: 16.992 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142051.D

Acq: 24 Mar 2025 13:26

Instrument :

BNA_F

ClientSampleId :

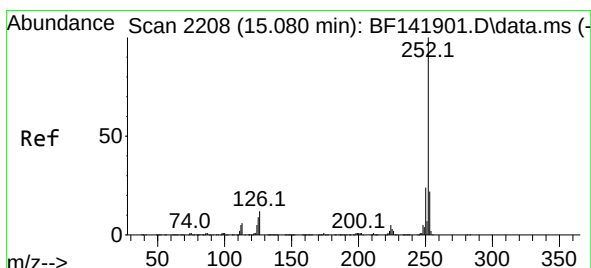
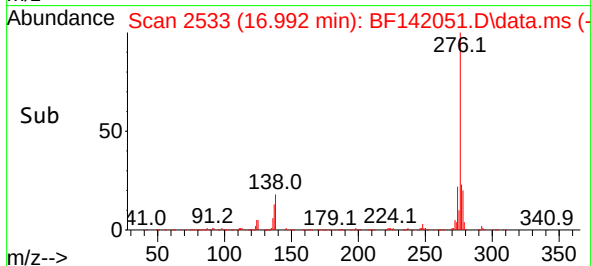
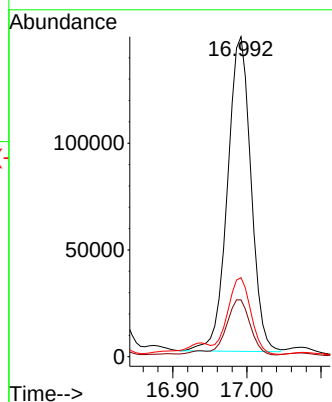
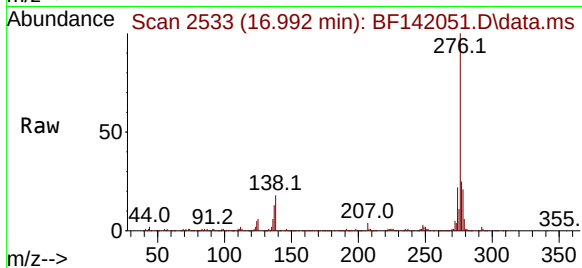
Tgt Ion:276 Resp: 324094

Ion Ratio Lower Upper

276 100

138 18.6 18.4 27.6

277 24.2 20.3 30.5



#88

Benzo(b)fluoranthene

Concen: 46.175 ng

RT: 15.080 min Scan# 2208

Delta R.T. 0.000 min

Lab File: BF142051.D

Acq: 24 Mar 2025 13:26

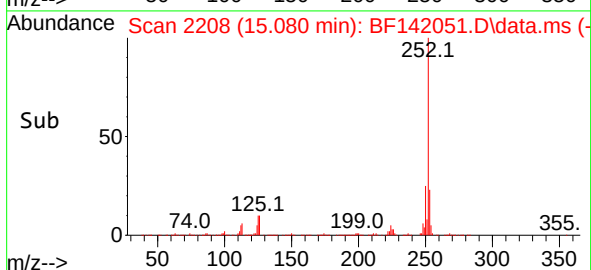
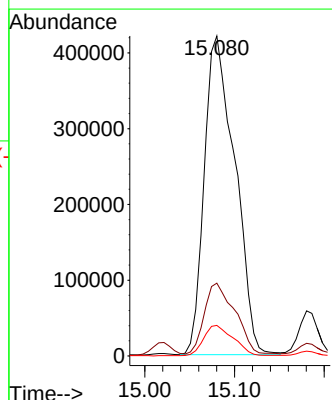
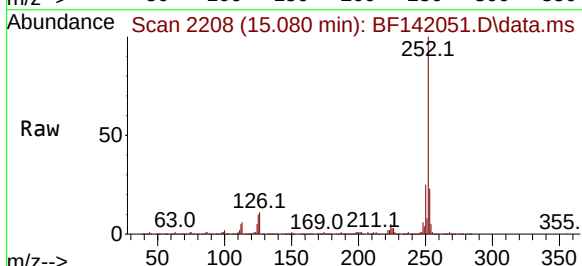
Tgt Ion:252 Resp: 998120

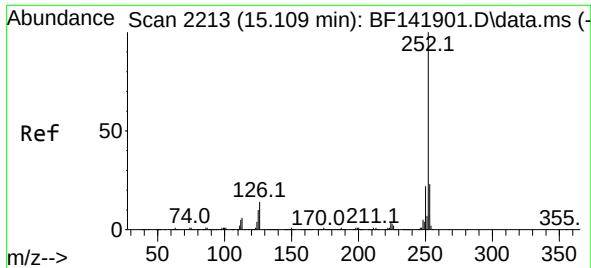
Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

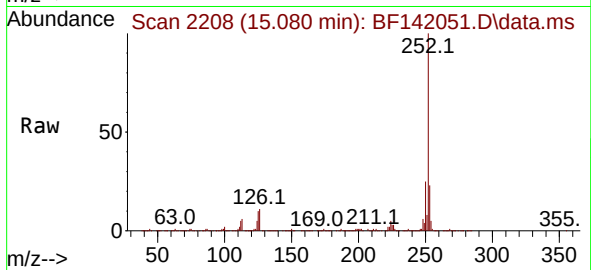
125 9.5 7.0 10.4



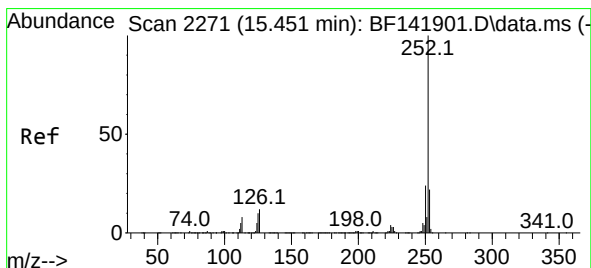
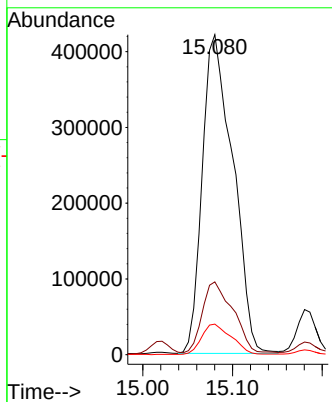
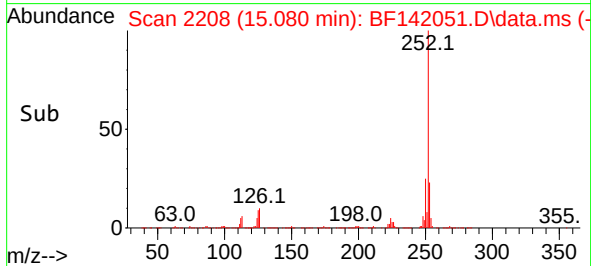


#89
Benzo(k)fluoranthene
Concen: 53.957 ng
RT: 15.080 min Scan# 21
Delta R.T. -0.029 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

Instrument :
BNA_F
ClientSampleId :

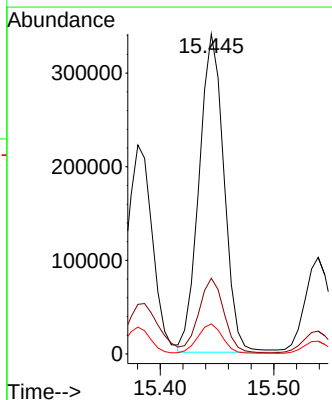
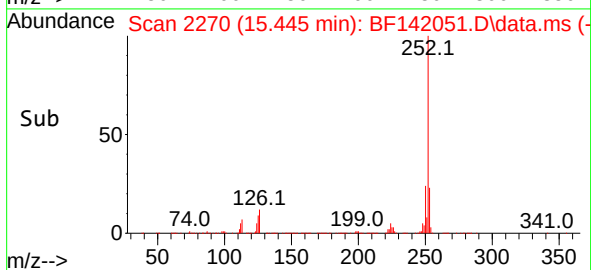
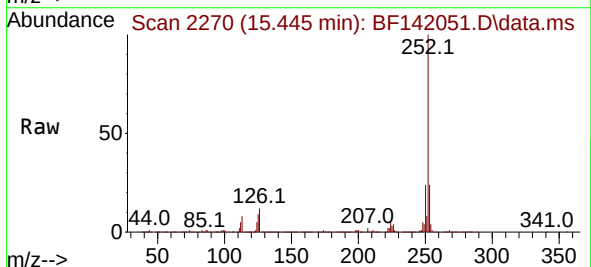


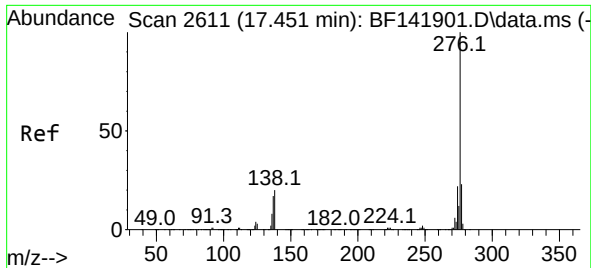
Tgt Ion:252 Resp: 998120
Ion Ratio Lower Upper
252 100
253 22.8 17.7 26.5
125 9.5 7.2 10.8



#90
Benzo(a)pyrene
Concen: 30.662 ng
RT: 15.445 min Scan# 2270
Delta R.T. -0.006 min
Lab File: BF142051.D
Acq: 24 Mar 2025 13:26

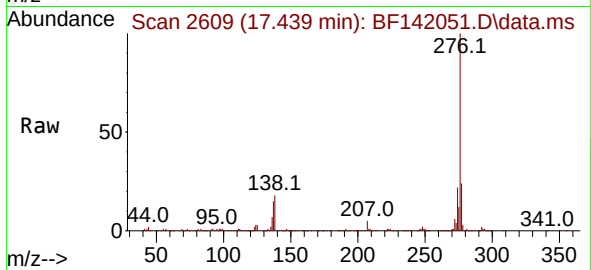
Tgt Ion:252 Resp: 518612
Ion Ratio Lower Upper
252 100
253 23.7 17.4 26.0
125 9.4 7.8 11.8





#92
 Benzo(g,h,i)perylene
 Concen: 17.950 ng
 RT: 17.439 min Scan# 20
 Delta R.T. -0.012 min
 Lab File: BF142051.D
 Acq: 24 Mar 2025 13:26

Instrument :
 BNA_F
 ClientSampleId :



Tgt Ion:276 Resp: 298592
 Ion Ratio Lower Upper
 276 100
 277 24.3 18.7 28.1
 138 17.8 15.8 23.8

