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 Data File : BF142148.D
 Acq On : 28 Mar 2025 02:36
 Operator : RC/JU
 Sample : Q1642-01 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

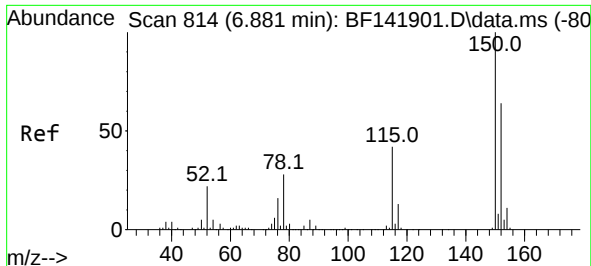
Instrument :
 BNA_F
 ClientSampleId :
 PAT-1-032525

Quant Time: Mar 28 03:57:51 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	6.869	152	156429	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	546162	20.000	ng	-0.01
39) Acenaphthene-d10	9.910	164	249474	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	359487	20.000	ng	0.00
76) Chrysene-d12	14.039	240	296687	20.000	ng	0.00
86) Perylene-d12	15.515	264	237441	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	388312	41.429	ng	-0.01
7) Phenol-d6	6.493	99	476384	39.919	ng	-0.01
23) Nitrobenzene-d5	7.428	82	293968	30.290	ng	-0.02
42) 2,4,6-Tribromophenol	10.698	330	113508	35.865	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	509956	31.087	ng	-0.01
79) Terphenyl-d14	12.980	244	452811	22.565	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.428	70	48672	6.347	ng	# 77
31) Naphthalene	8.175	128	153549	5.473	ng	98
33) 4-Chloroaniline	8.175	127	19884	2.008	ng	# 41
35) Caprolactam	8.575	113	10833	4.390	ng	# 18
37) 2-Methylnaphthalene	8.863	142	93509	4.986	ng	100
38) 1-Methylnaphthalene	8.963	142	112600	6.222	ng	99
52) Acenaphthene	9.939	154	194858	13.225	ng	98
54) 2,4-Dinitrophenol	10.122	184	803	6.930	ng	# 1
55) Dibenzofuran	10.116	168	156527	7.435	ng	# 91
56) 4-Nitrophenol	10.010	139	12297	4.419	ng	# 54
58) Fluorene	10.457	166	197458	12.162	ng	# 98
66) n-Nitrosodiphenylamine	10.569	169	71040	6.107	ng	# 69
71) Phenanthrene	11.428	178	2061509	106.170	ng	100
72) Anthracene	11.475	178	521779	26.785	ng	99
73) Carbazole	11.627	167	228276	13.588	ng	98
75) Fluoranthene	12.622	202	2850937	138.415	ng	98
78) Pyrene	12.845	202	2383713	92.882	ng	97
81) Benzo(a)anthracene	14.033	228	1119718	57.514	ng	98
83) Chrysene	14.069	228	828871	46.968	ng	97
84) Bis(2-ethylhexyl)phtha...	14.016	149	133149	9.614	ng	98
87) Indeno(1,2,3-cd)pyrene	16.839	276	58025	3.778	ng	97
88) Benzo(b)fluoranthene	15.086	252	1204032	73.989	ng	98
89) Benzo(k)fluoranthene	15.086	252	1204032	86.458	ng	98
90) Benzo(a)pyrene	15.457	252	576525	45.277	ng	97
91) Dibenzo(a,h)anthracene	17.015	278	81575	6.437	ng	# 92
92) Benzo(g,h,i)perylene	17.457	276	316674	25.287	ng	97

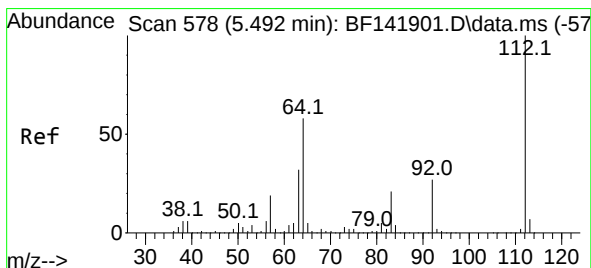
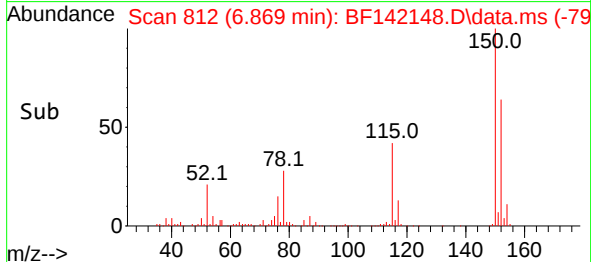
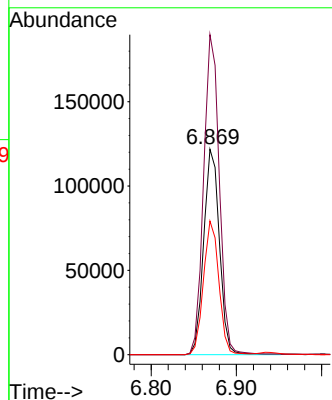
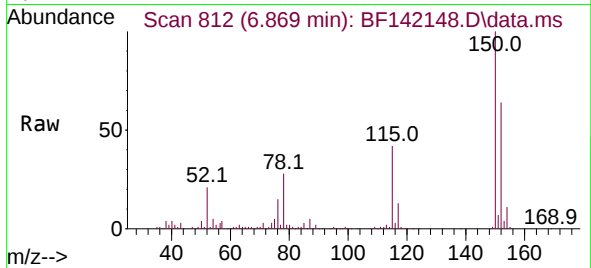
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 814
Delta R.T. -0.012 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

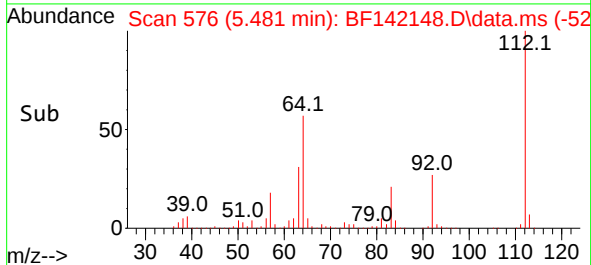
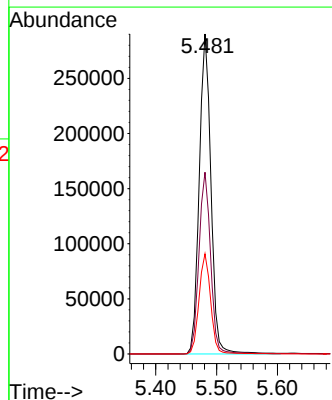
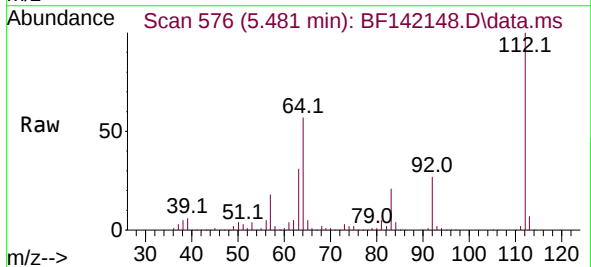
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BNA_F
ClientSampleId :
PAT-1-032525

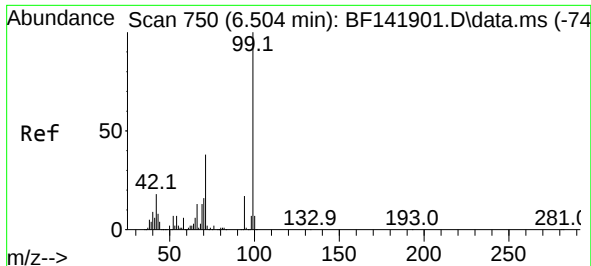
Tgt Ion:152 Resp: 156429
Ion Ratio Lower Upper
152 100
150 155.7 127.4 191.2
115 65.0 51.9 77.9



#5
2-Fluorophenol
Concen: 41.429 ng
RT: 5.481 min Scan# 576
Delta R.T. -0.012 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

Tgt Ion:112 Resp: 388312
Ion Ratio Lower Upper
112 100
64 56.8 46.5 69.7
63 31.3 25.4 38.2

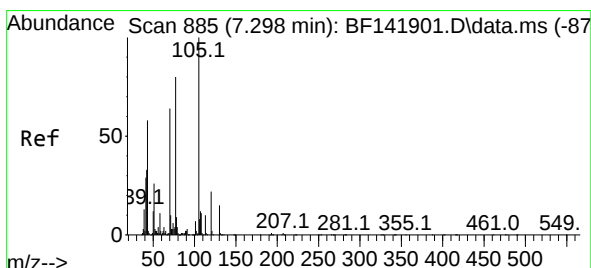
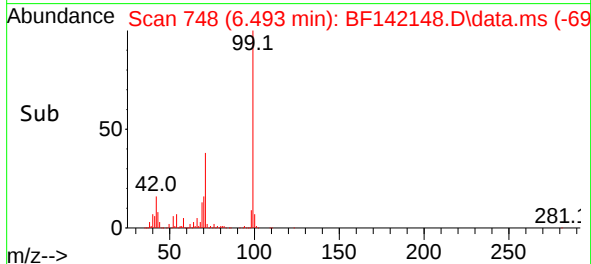
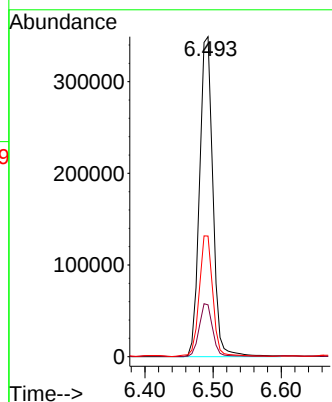
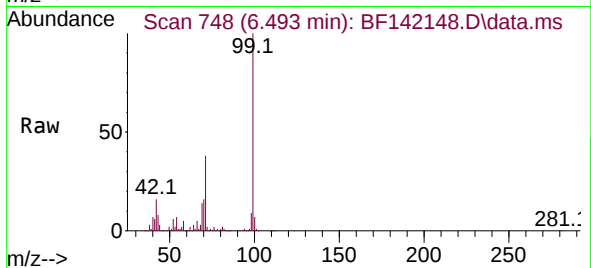




#7
Phenol-d6
Concen: 39.919 ng
RT: 6.493 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

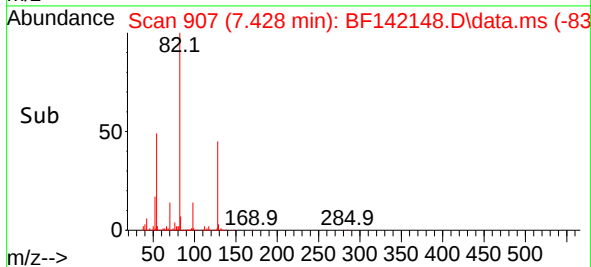
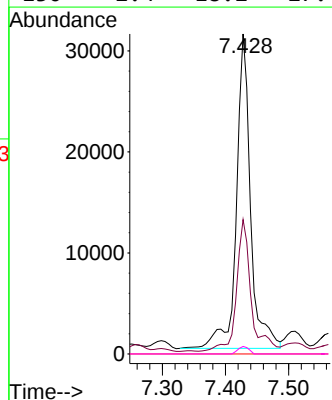
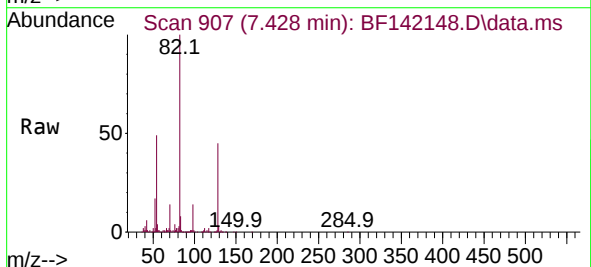
Instrument :
BNA_F
ClientSampleId :
PAT-1-032525

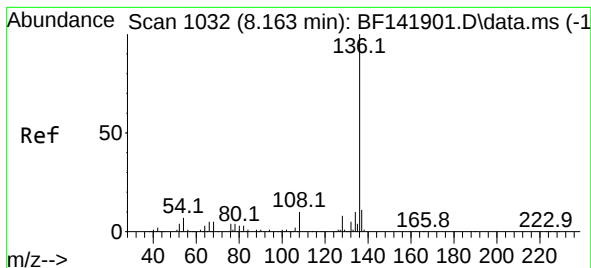
Tgt Ion: 99 Resp: 476384
Ion Ratio Lower Upper
99 100
42 16.2 14.6 21.8
71 37.7 30.8 46.2



#19
n-Nitroso-di-n-propylamine
Concen: 6.347 ng
RT: 7.428 min Scan# 907
Delta R.T. 0.130 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

Tgt Ion: 70 Resp: 48672
Ion Ratio Lower Upper
70 100
42 42.0 41.4 62.0
101 0.0 8.2 12.2#
130 2.4 18.2 27.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.151 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

Instrument :

BNA_F

ClientSampleId :

PAT-1-032525

Tgt Ion:136 Resp: 546162

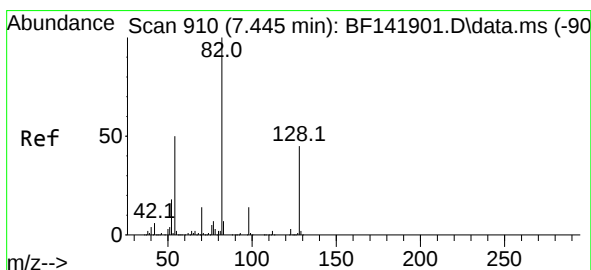
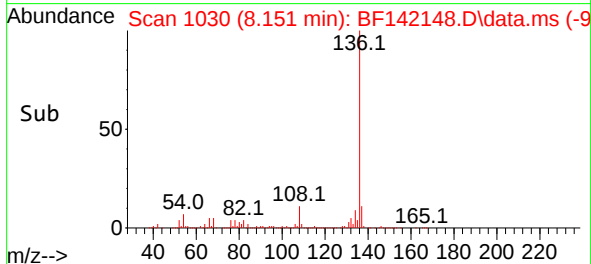
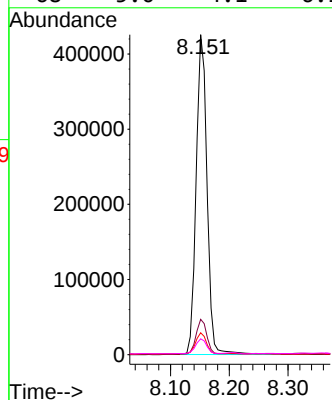
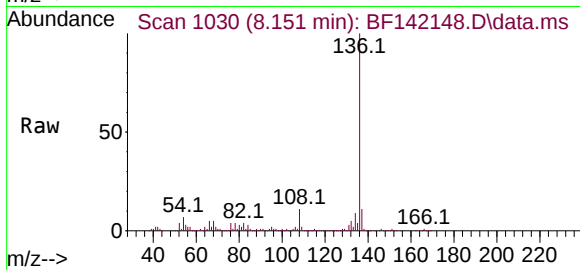
Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

54 6.8 5.8 8.8

68 5.0 4.1 6.1



#23

Nitrobenzene-d5

Concen: 30.290 ng

RT: 7.428 min Scan# 907

Delta R.T. -0.018 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

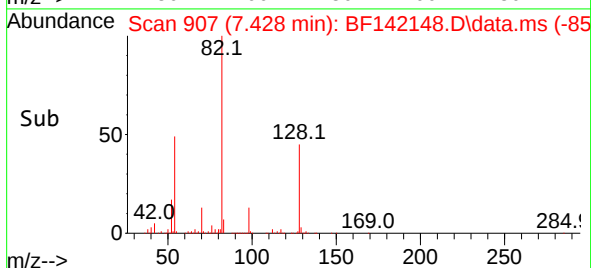
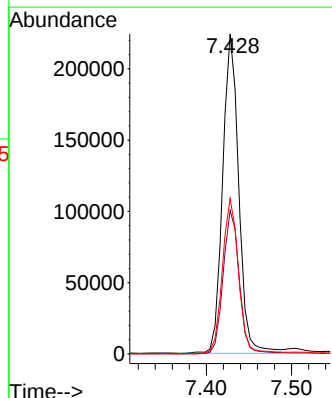
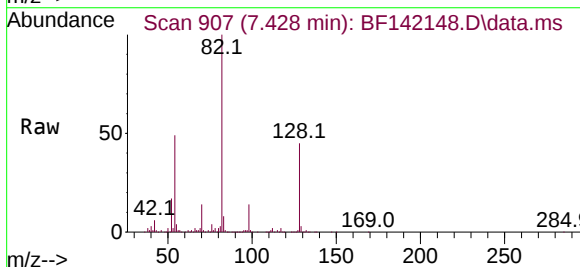
Tgt Ion: 82 Resp: 293968

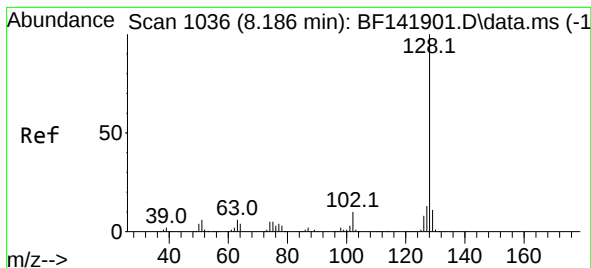
Ion Ratio Lower Upper

82 100

128 44.8 36.0 54.0

54 48.6 39.6 59.4





#31

Naphthalene

Concen: 5.473 ng

RT: 8.175 min Scan# 1034

Delta R.T. -0.012 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

Instrument :

BNA_F

ClientSampleId :

PAT-1-032525

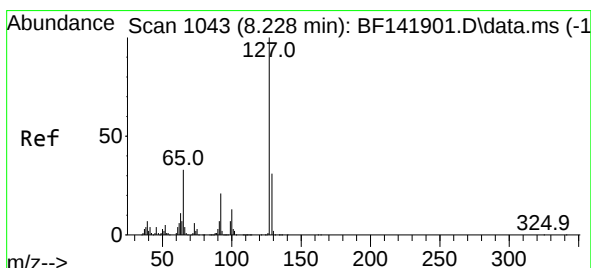
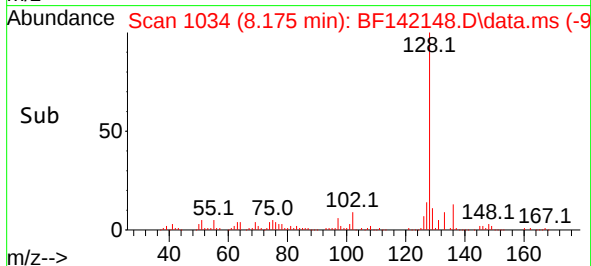
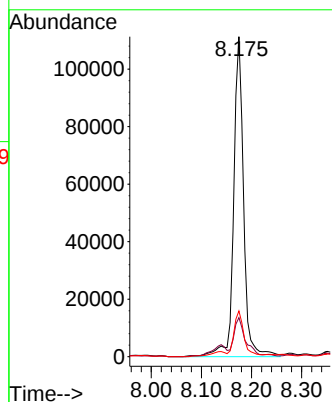
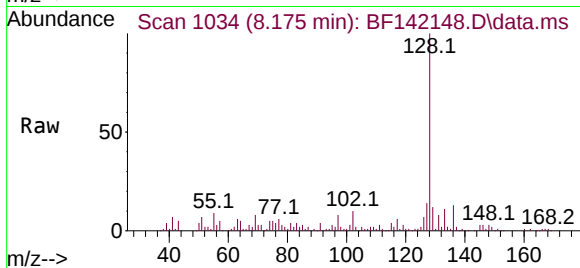
Tgt Ion:128 Resp: 153549

Ion Ratio Lower Upper

128 100

129 12.2 9.0 13.6

127 14.3 10.8 16.2



#33

4-Chloroaniline

Concen: 2.008 ng

RT: 8.175 min Scan# 1034

Delta R.T. -0.053 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

Tgt Ion:127 Resp: 19884

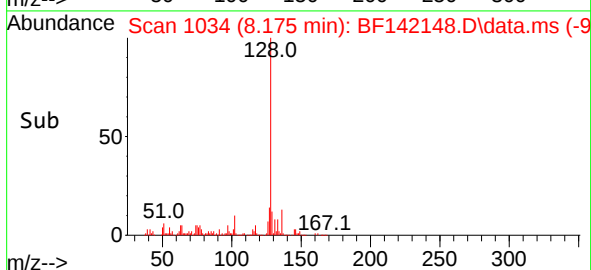
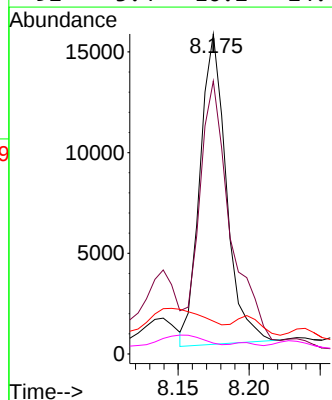
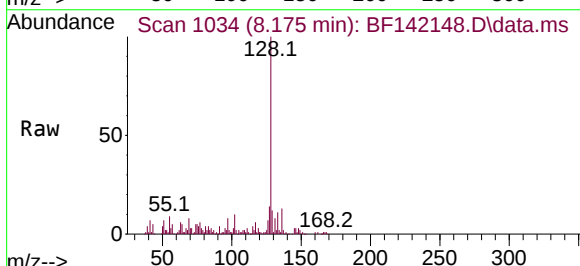
Ion Ratio Lower Upper

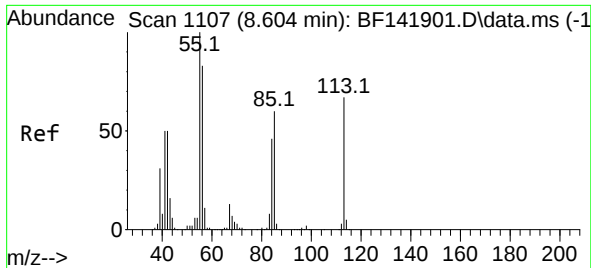
127 100

129 85.3 26.2 39.4#

65 10.3 25.4 38.2#

92 3.4 16.2 24.4#

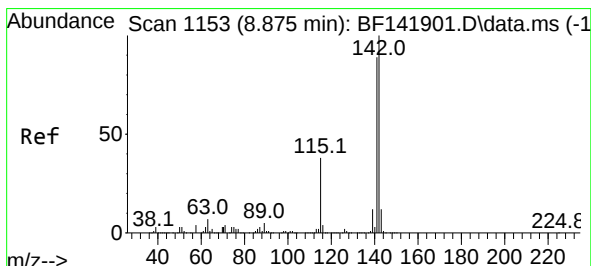
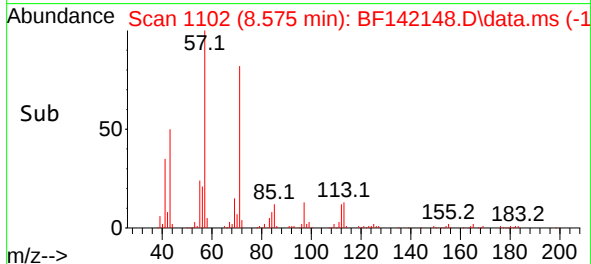
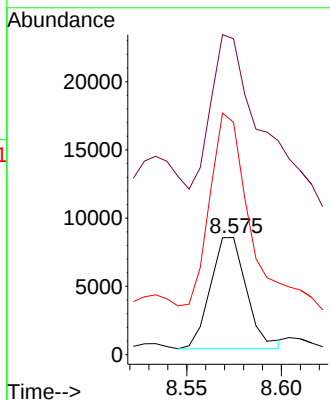
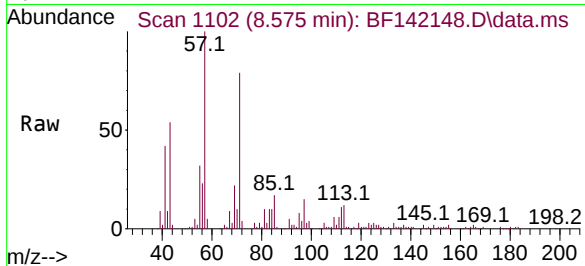




#35
 Caprolactam
 Concen: 4.390 ng
 RT: 8.575 min Scan# 1107
 Delta R.T. -0.029 min
 Lab File: BF142148.D
 Acq: 28 Mar 2025 02:36

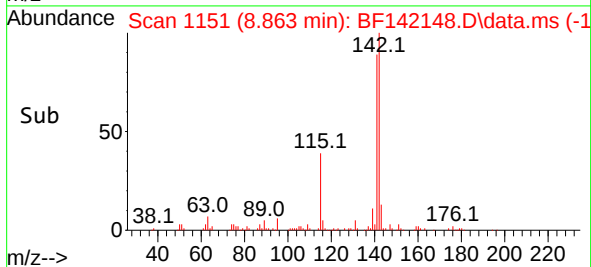
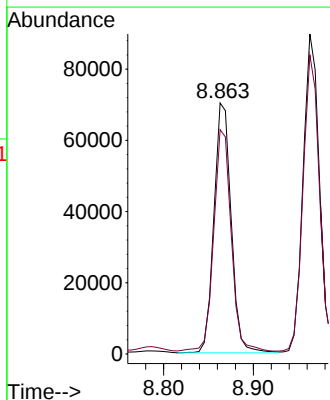
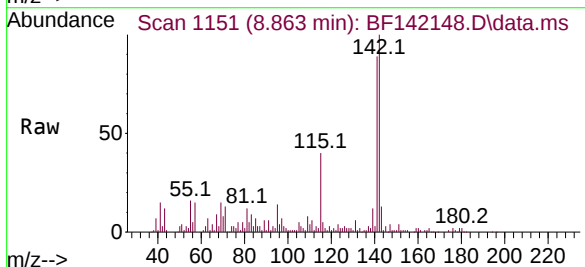
Instrument :
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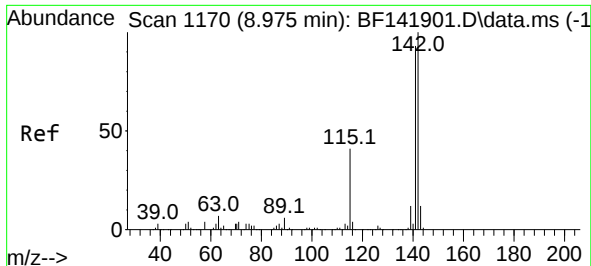
Tgt Ion:113 Resp: 10833
 Ion Ratio Lower Upper
 113 100
 55 269.8 129.6 169.6#
 56 198.4 104.0 144.0#



#37
 2-Methylnaphthalene
 Concen: 4.986 ng
 RT: 8.863 min Scan# 1151
 Delta R.T. -0.012 min
 Lab File: BF142148.D
 Acq: 28 Mar 2025 02:36

Tgt Ion:142 Resp: 93509
 Ion Ratio Lower Upper
 142 100
 141 89.4 71.2 106.8

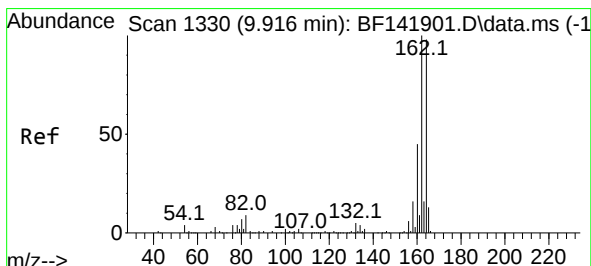
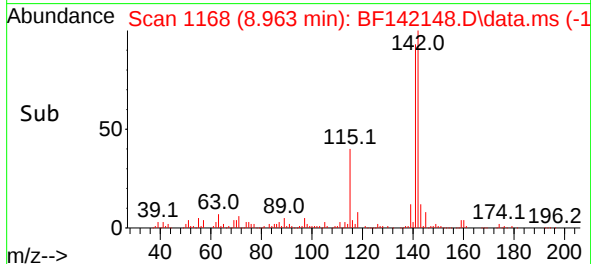
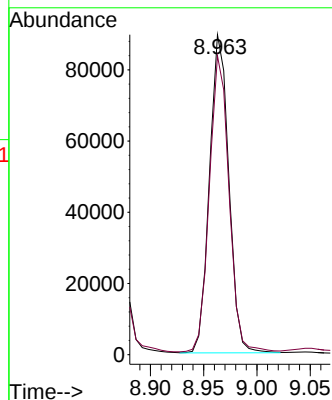
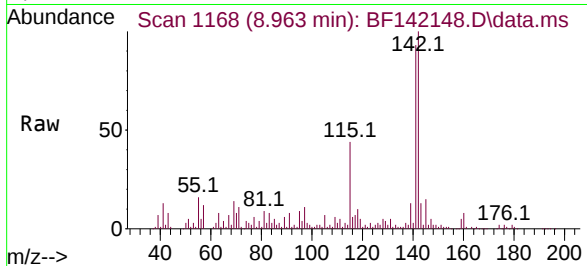




#38
1-Methylnaphthalene
Concen: 6.222 ng
RT: 8.963 min Scan# 1170
Delta R.T. -0.012 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

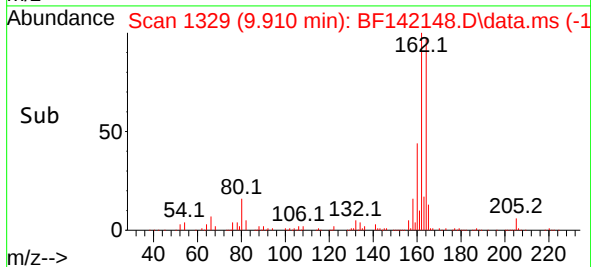
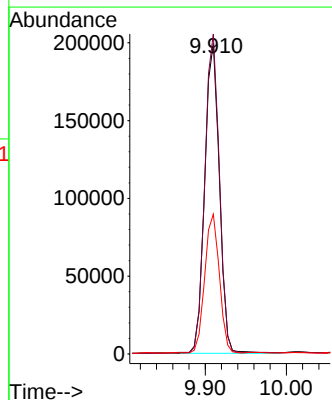
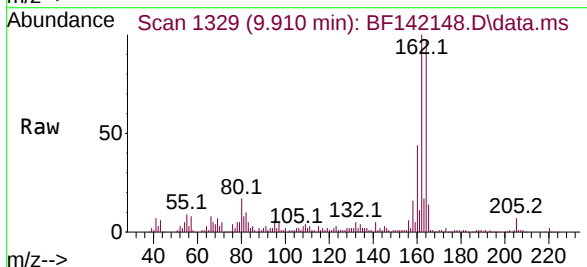
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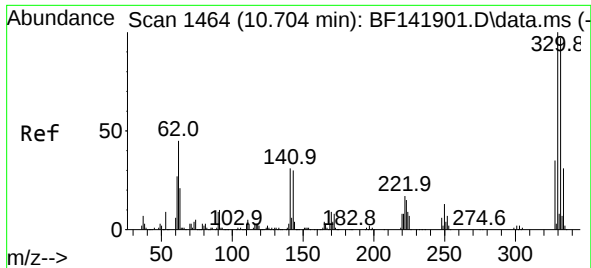
Tgt Ion:142 Resp: 112600
Ion Ratio Lower Upper
142 100
141 93.4 74.2 111.4



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

Tgt Ion:164 Resp: 249474
Ion Ratio Lower Upper
164 100
162 103.1 81.8 122.6
160 45.1 36.7 55.1

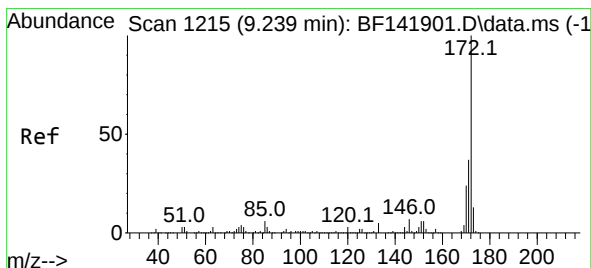
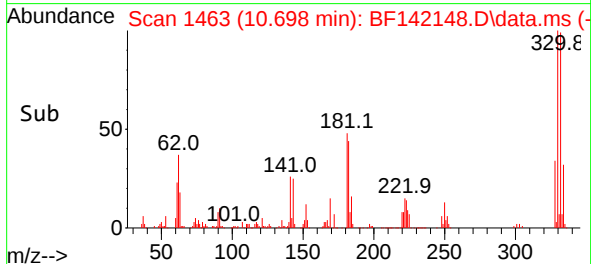
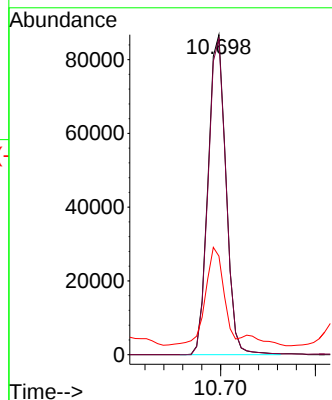
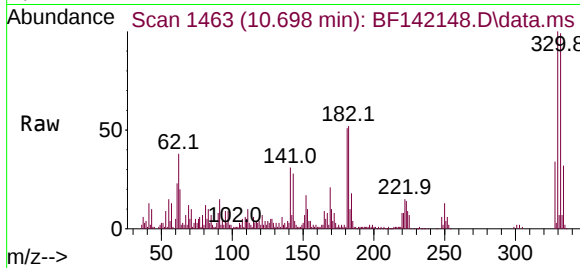




#42
2,4,6-Tribromophenol
Concen: 35.865 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

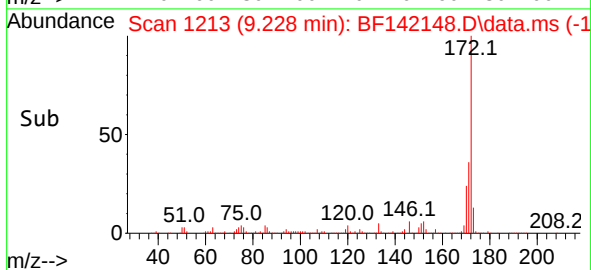
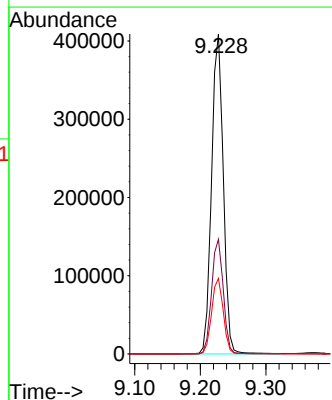
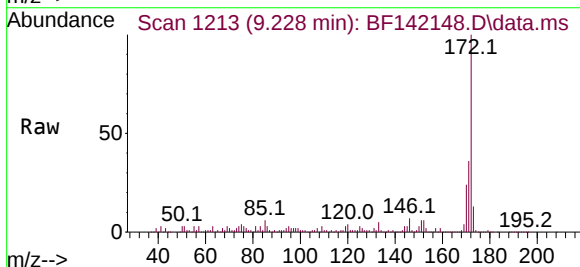
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PAT-1-032525

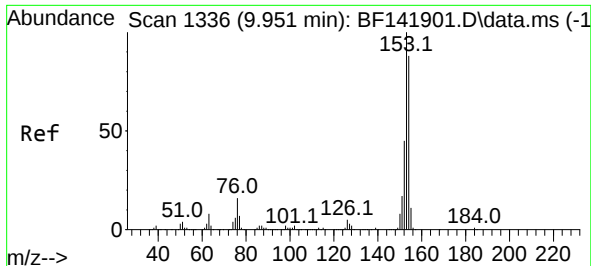
Tgt Ion:330 Resp: 113508
Ion Ratio Lower Upper
330 100
332 98.8 77.6 116.4
141 32.1 24.7 37.1



#45
2-Fluorobiphenyl
Concen: 31.087 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.012 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

Tgt Ion:172 Resp: 509956
Ion Ratio Lower Upper
172 100
171 35.9 29.3 43.9
170 23.6 19.4 29.0

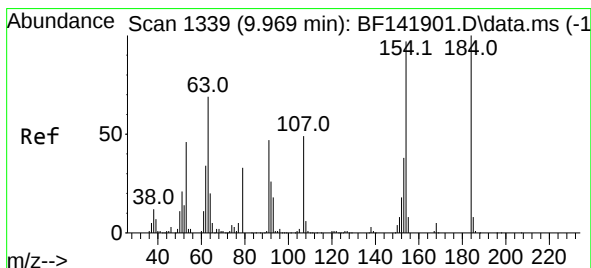
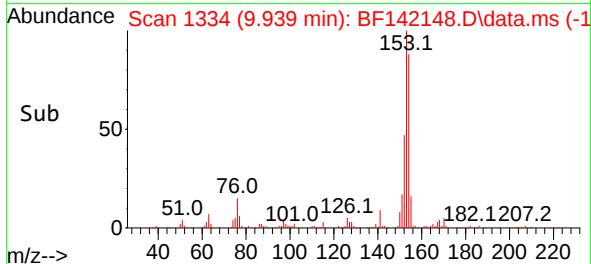
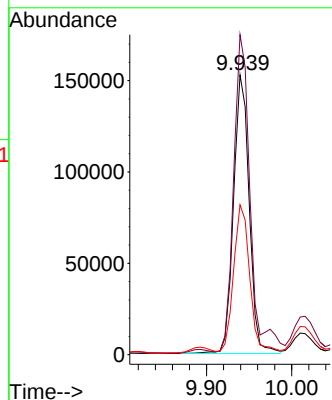
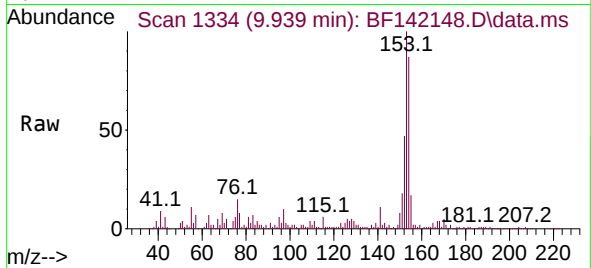




#52
Acenaphthene
Concen: 13.225 ng
RT: 9.939 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

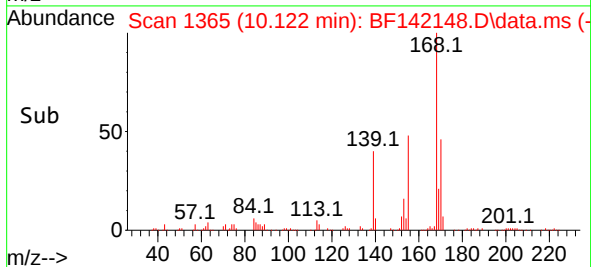
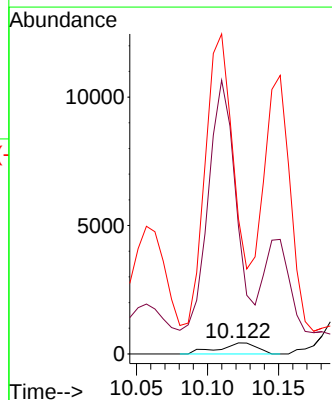
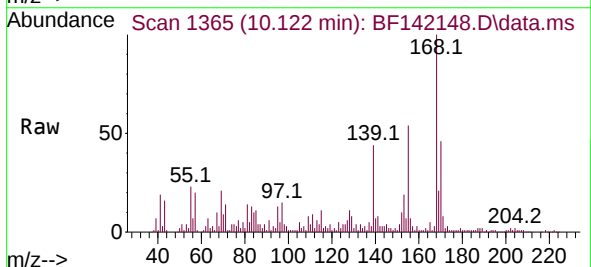
Instrument :
BNA_F
ClientSampleId :
PAT-1-032525

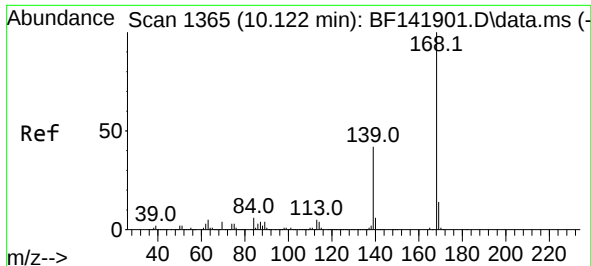
Tgt Ion:154 Resp: 194858
Ion Ratio Lower Upper
154 100
153 114.4 90.7 136.1
152 53.6 41.1 61.7



#54
2,4-Dinitrophenol
Concen: 6.930 ng
RT: 10.122 min Scan# 1365
Delta R.T. 0.153 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

Tgt Ion:184 Resp: 803
Ion Ratio Lower Upper
184 100
63 1157.2 60.2 90.4#
154 1226.0 132.9 199.3#

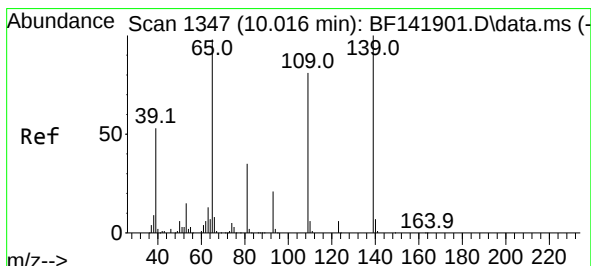
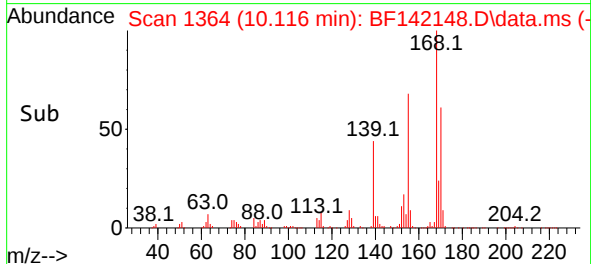
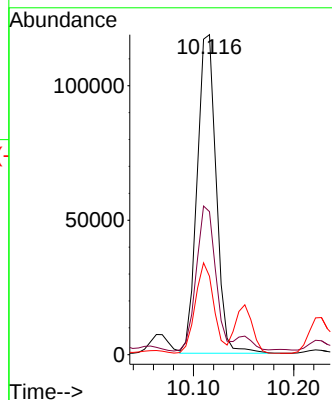
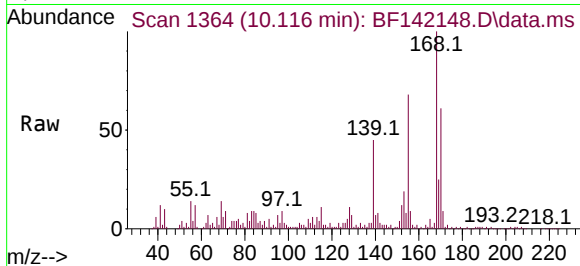




#55
Dibenzenofuran
Concen: 7.435 ng
RT: 10.116 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

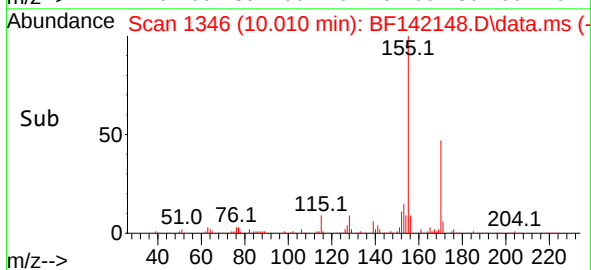
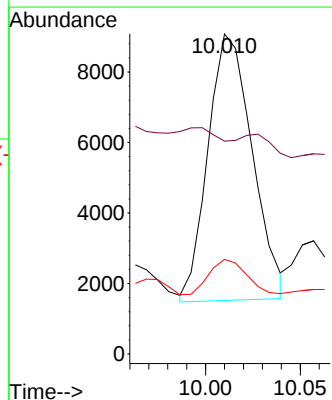
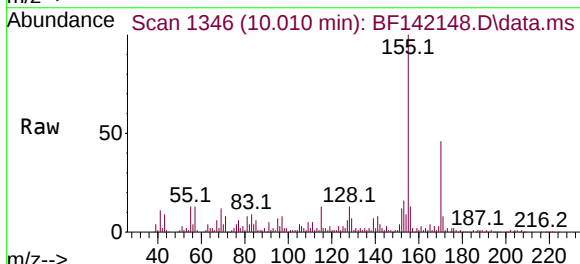
Instrument :
BNA_F
ClientSampleId :
PAT-1-032525

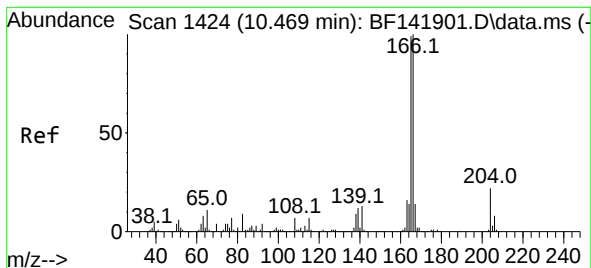
Tgt Ion:168 Resp: 156527
Ion Ratio Lower Upper
168 100
139 44.7 33.9 50.9
169 24.5 11.0 16.4#



#56
4-Nitrophenol
Concen: 4.419 ng
RT: 10.010 min Scan# 1346
Delta R.T. -0.006 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

Tgt Ion:139 Resp: 12297
Ion Ratio Lower Upper
139 100
109 66.5 61.6 101.6
65 29.6 79.4 119.4#





#58

Fluorene

Concen: 12.162 ng

RT: 10.457 min Scan# 14

Delta R.T. -0.012 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

Instrument :

BNA_F

ClientSampleId :

PAT-1-032525

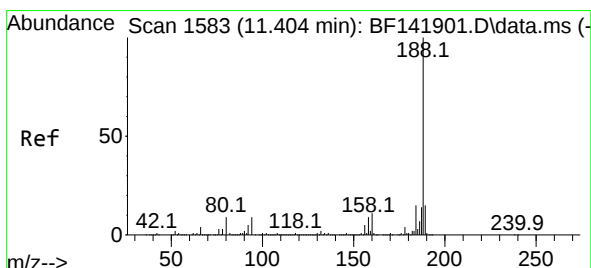
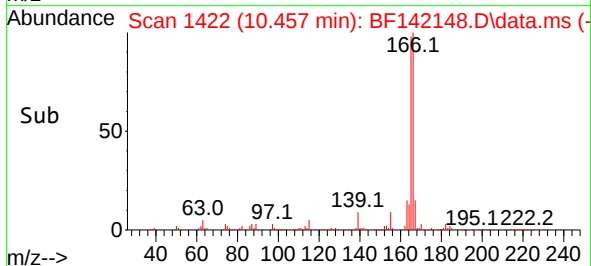
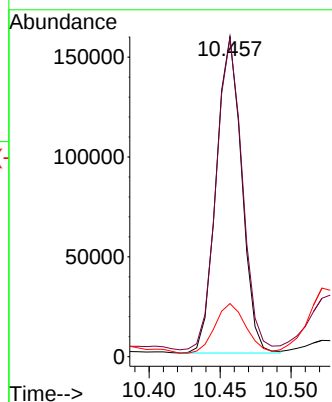
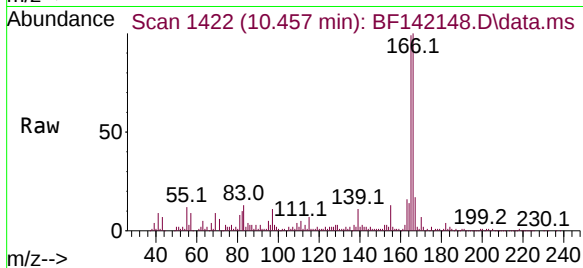
Tgt Ion:166 Resp: 197458

Ion Ratio Lower Upper

166 100

165 99.5 79.0 118.4

167 16.6 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: BF142148.D

Acq: 28 Mar 2025 02:36

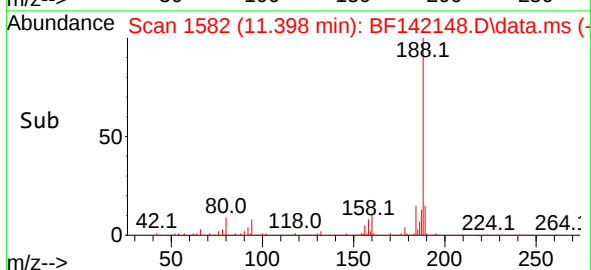
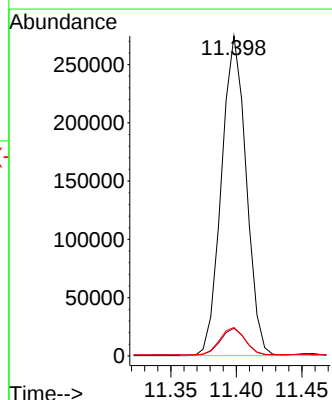
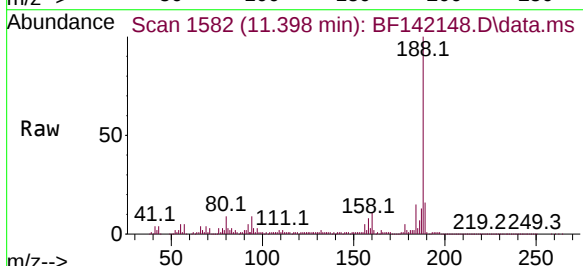
Tgt Ion:188 Resp: 359487

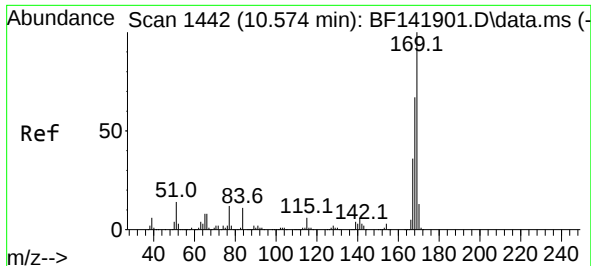
Ion Ratio Lower Upper

188 100

94 8.6 6.8 10.2

80 8.9 7.6 11.4

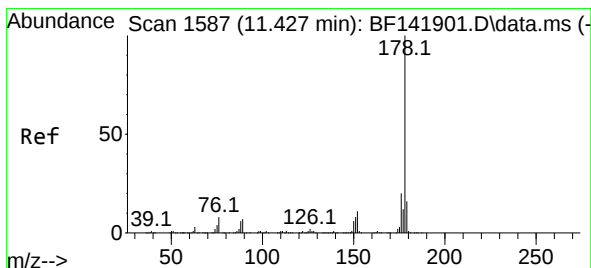
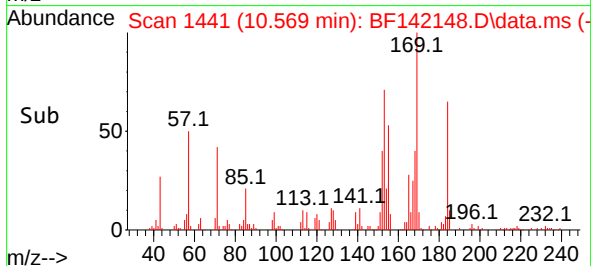
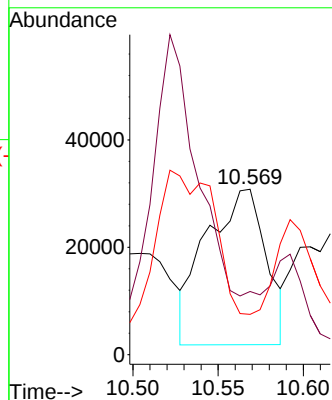
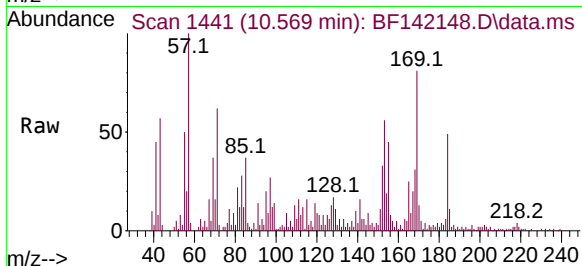




#66
 n-Nitrosodiphenylamine
 Concen: 6.107 ng
 RT: 10.569 min Scan# 1442
 Delta R.T. -0.006 min
 Lab File: BF142148.D
 Acq: 28 Mar 2025 02:36

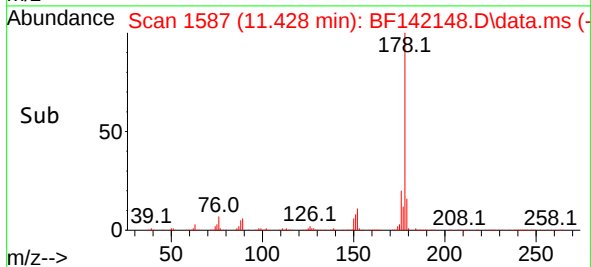
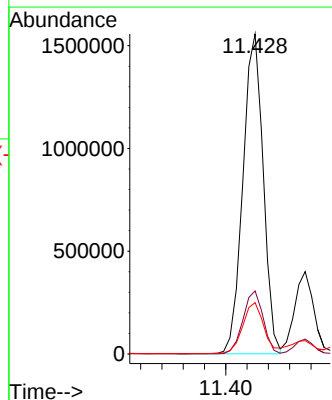
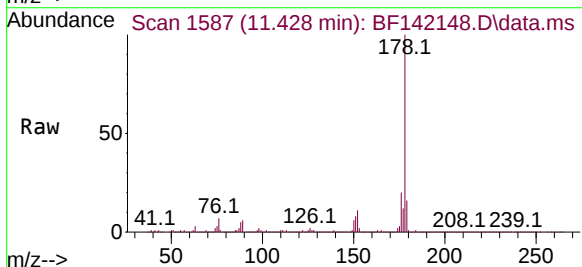
Instrument :
 BNA_F
 ClientSampleId :
 PAT-1-032525

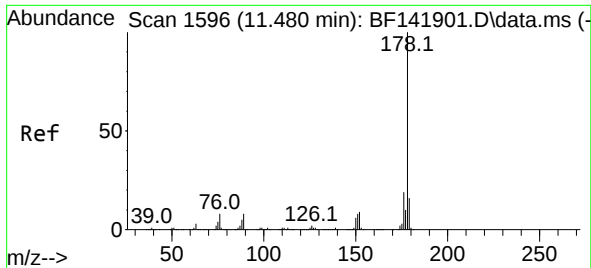
Tgt Ion:169 Resp: 71040
 Ion Ratio Lower Upper
 169 100
 168 38.2 53.7 80.5#
 167 24.4 29.2 43.8#



#71
 Phenanthrene
 Concen: 106.170 ng
 RT: 11.428 min Scan# 1587
 Delta R.T. 0.000 min
 Lab File: BF142148.D
 Acq: 28 Mar 2025 02:36

Tgt Ion:178 Resp: 2061509
 Ion Ratio Lower Upper
 178 100
 176 19.7 15.8 23.8
 179 16.1 12.6 19.0

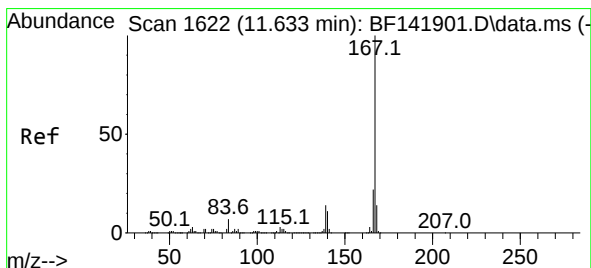
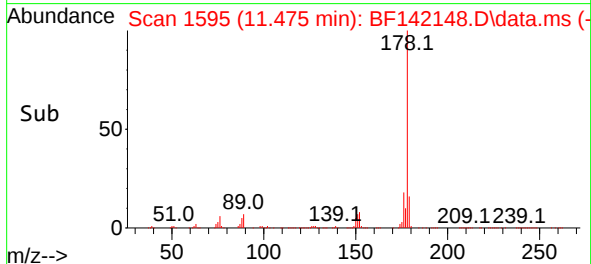
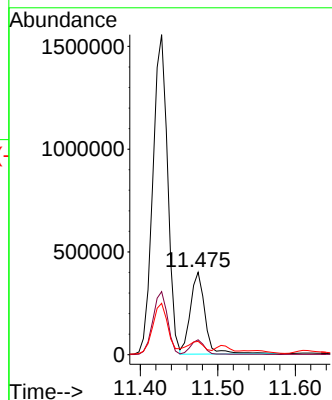
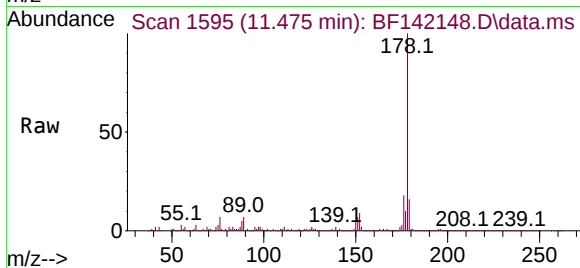




#72
 Anthracene
 Concen: 26.785 ng
 RT: 11.475 min Scan# 1596
 Delta R.T. -0.006 min
 Lab File: BF142148.D
 Acq: 28 Mar 2025 02:36

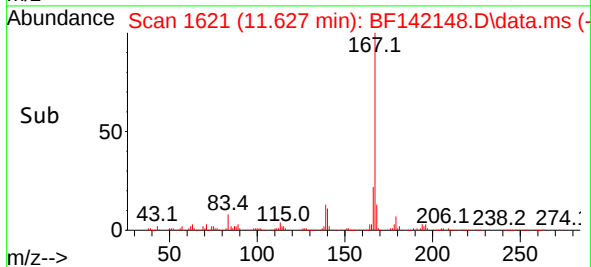
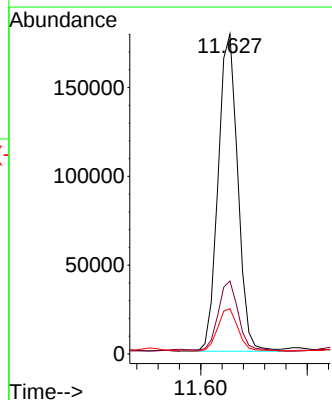
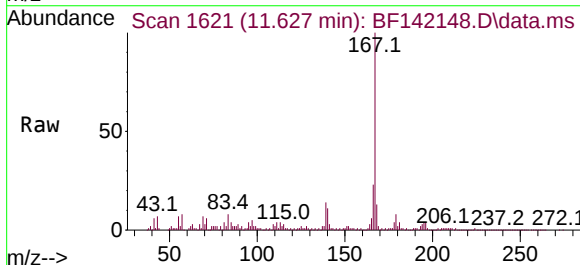
Instrument :
 BNA_F
 ClientSampleId :
 PAT-1-032525

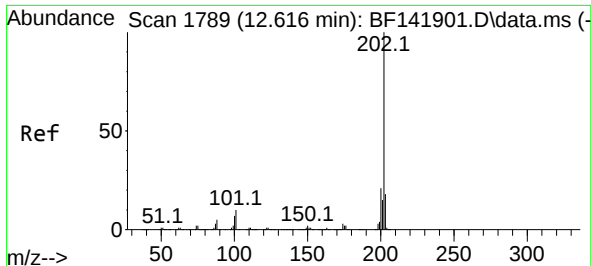
Tgt Ion:178 Resp: 521779
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.1 22.7
 179 16.1 12.6 19.0



#73
 Carbazole
 Concen: 13.588 ng
 RT: 11.627 min Scan# 1621
 Delta R.T. -0.006 min
 Lab File: BF142148.D
 Acq: 28 Mar 2025 02:36

Tgt Ion:167 Resp: 228276
 Ion Ratio Lower Upper
 167 100
 166 22.8 17.4 26.2
 139 14.1 11.0 16.6

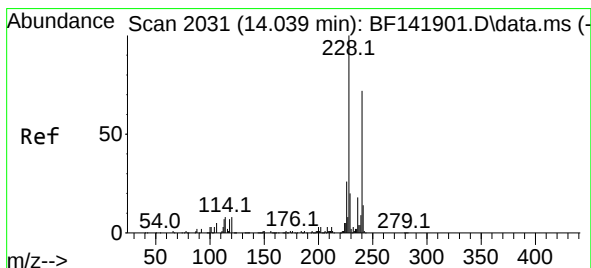
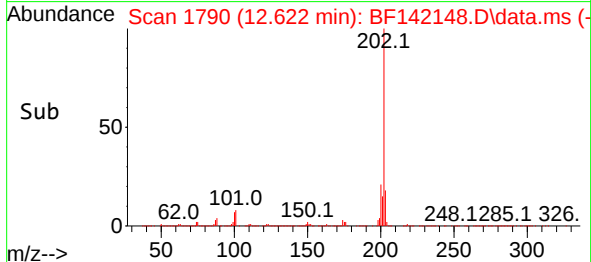
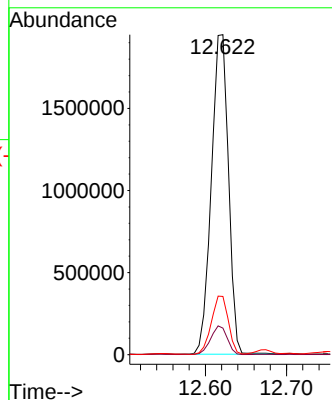
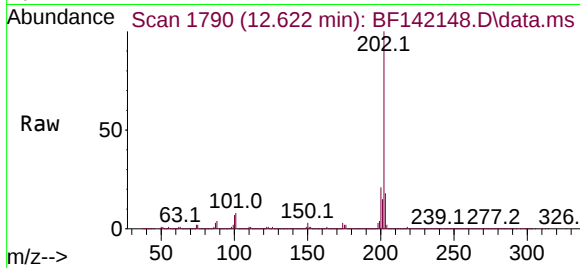




#75
Fluoranthene
Concen: 138.415 ng
RT: 12.622 min Scan# 1790
Delta R.T. 0.006 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

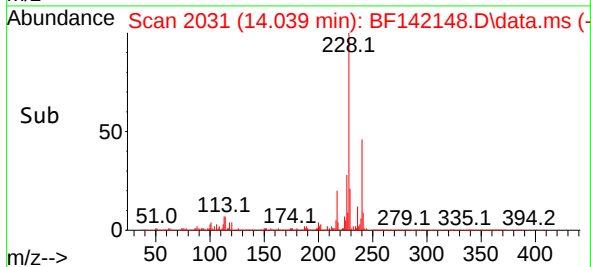
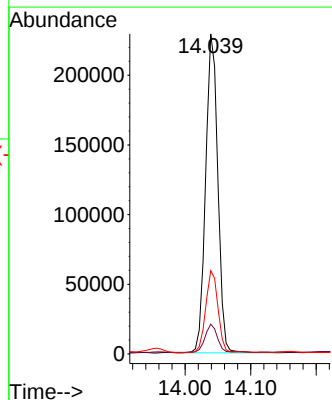
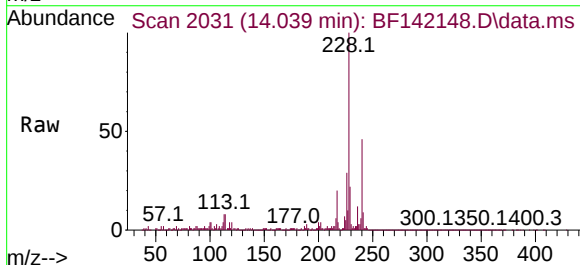
Instrument :
BNA_F
ClientSampleId :
PAT-1-032525

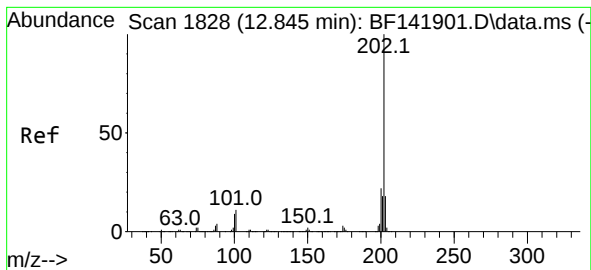
Tgt Ion:202 Resp: 2850937
Ion Ratio Lower Upper
202 100
101 8.3 0.0 29.7
203 18.2 0.0 37.8



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

Tgt Ion:240 Resp: 296687
Ion Ratio Lower Upper
240 100
120 9.3 8.4 12.6
236 26.0 20.5 30.7





#78

Pyrene

Concen: 92.882 ng

RT: 12.845 min Scan# 1828

Delta R.T. 0.000 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

Instrument :

BNA_F

ClientSampleId :

PAT-1-032525

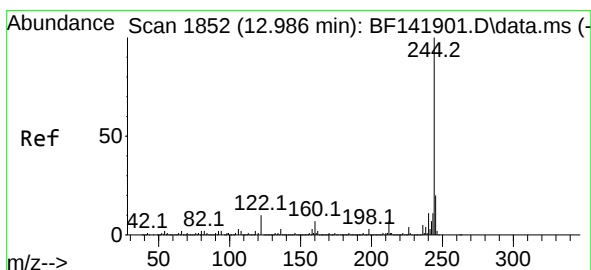
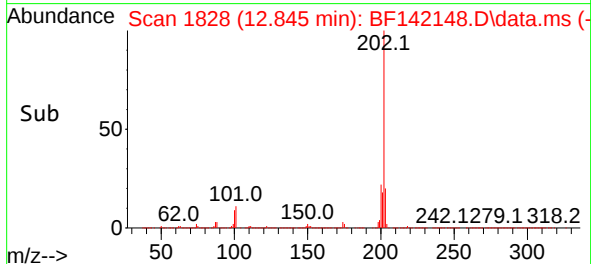
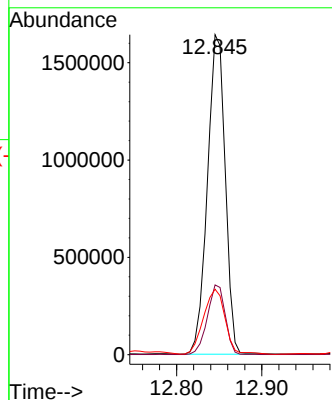
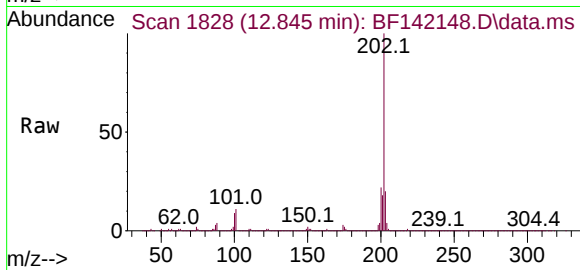
Tgt Ion:202 Resp: 2383713

Ion Ratio Lower Upper

202 100

200 21.8 17.3 25.9

203 20.5 14.4 21.6



#79

Terphenyl-d14

Concen: 22.565 ng

RT: 12.980 min Scan# 1851

Delta R.T. -0.006 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

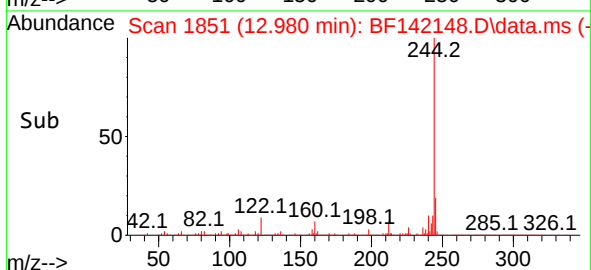
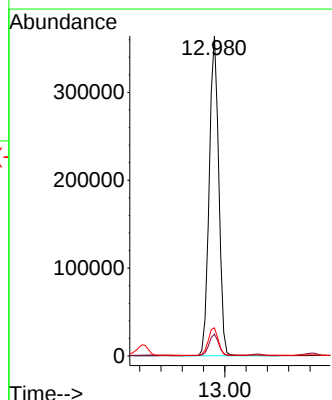
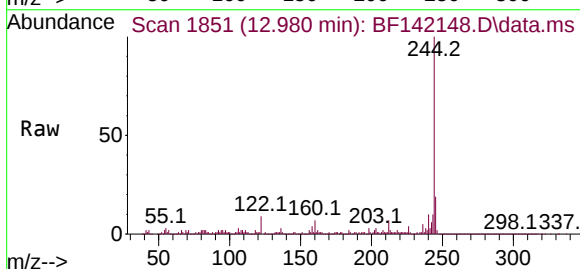
Tgt Ion:244 Resp: 452811

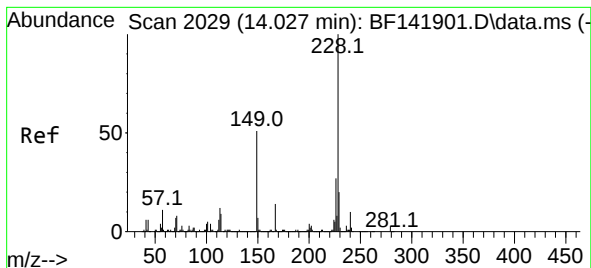
Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

122 8.8 7.7 11.5





#81

Benzo(a)anthracene

Concen: 57.514 ng

RT: 14.033 min Scan# 2029

Delta R.T. 0.006 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

Instrument :

BNA_F

ClientSampleId :

PAT-1-032525

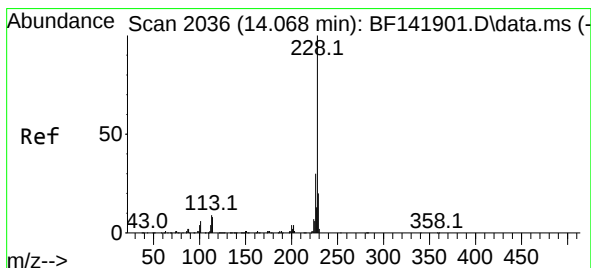
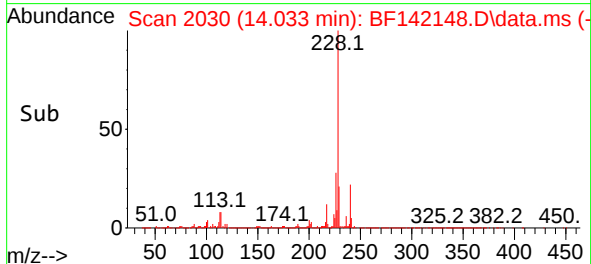
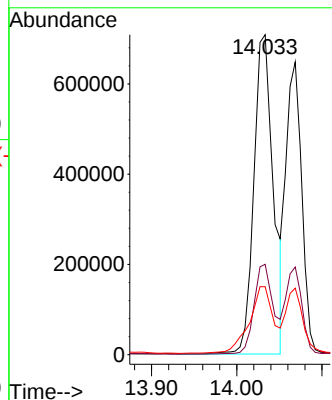
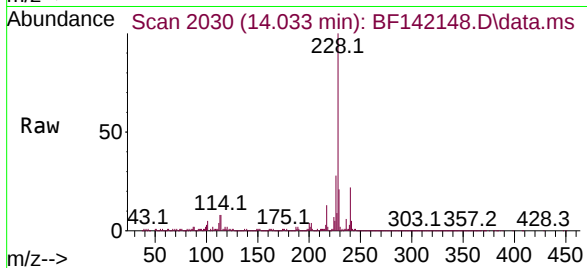
Tgt Ion:228 Resp: 1119718

Ion Ratio Lower Upper

228 100

226 28.3 21.8 32.8

229 21.3 16.0 24.0



#83

Chrysene

Concen: 46.968 ng

RT: 14.069 min Scan# 2036

Delta R.T. 0.000 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

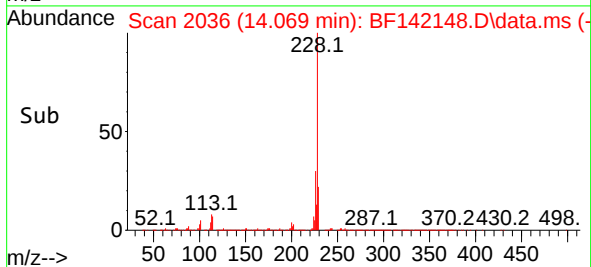
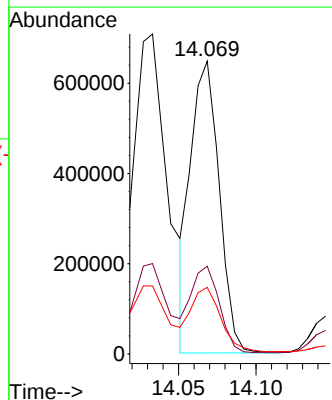
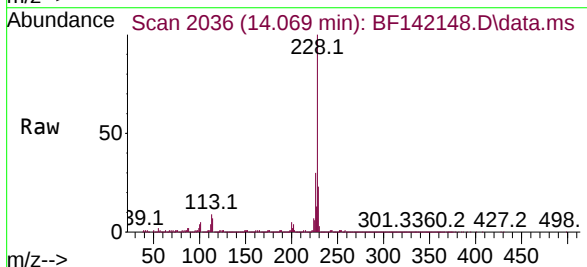
Tgt Ion:228 Resp: 828871

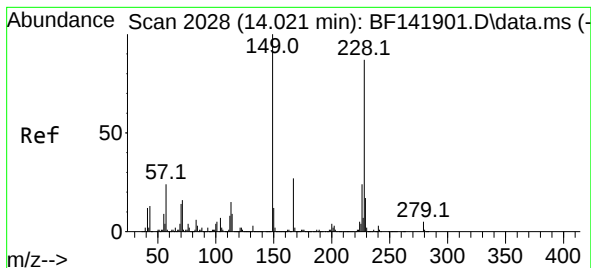
Ion Ratio Lower Upper

228 100

226 30.0 24.1 36.1

229 22.7 15.7 23.5

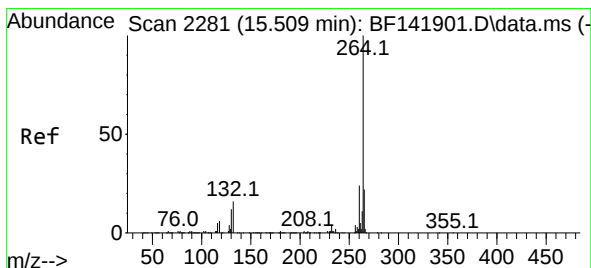
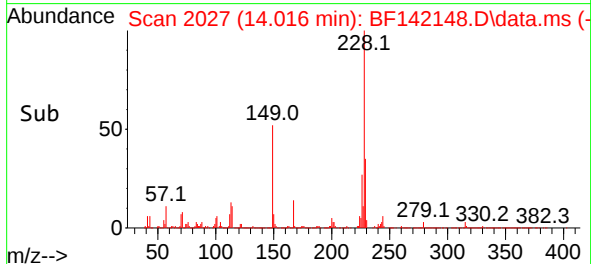
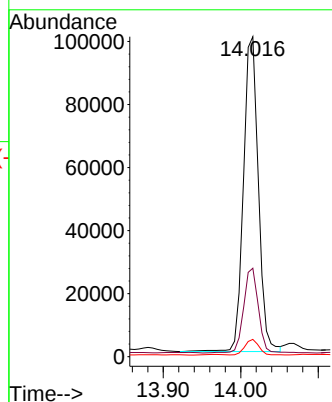
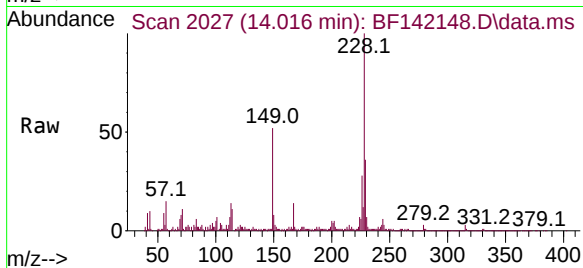




#84
Bis(2-ethylhexyl)phthalate
Concen: 9.614 ng
RT: 14.016 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

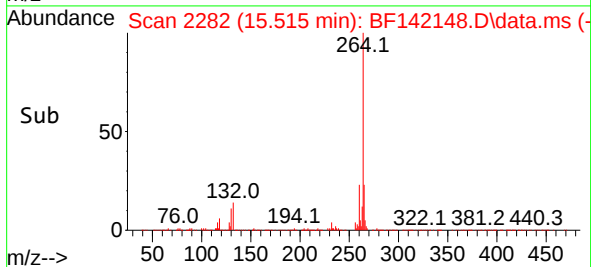
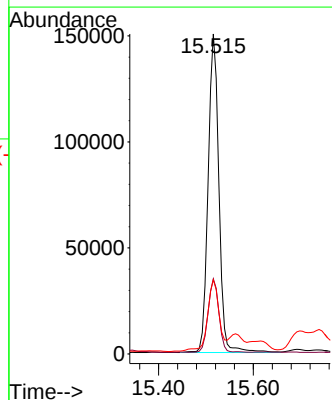
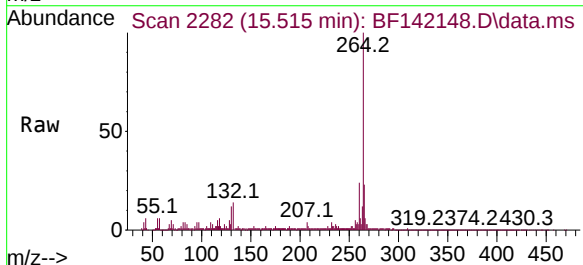
Instrument :
BNA_F
ClientSampleId :
PAT-1-032525

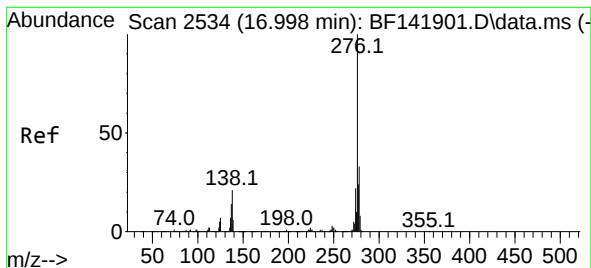
Tgt Ion:149 Resp: 133149
Ion Ratio Lower Upper
149 100
167 27.7 21.4 32.0
279 5.4 3.8 5.6



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. 0.006 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

Tgt Ion:264 Resp: 237441
Ion Ratio Lower Upper
264 100
260 23.5 19.1 28.7
265 23.2 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.778 ng

RT: 16.839 min Scan# 21

Delta R.T. -0.159 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

Instrument :

BNA_F

ClientSampleId :

PAT-1-032525

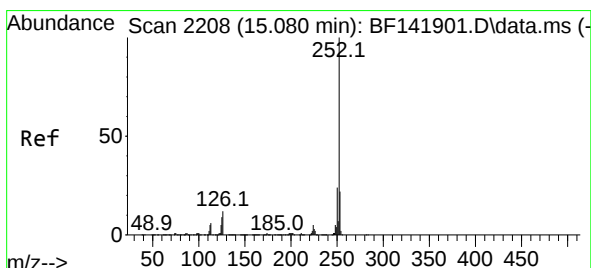
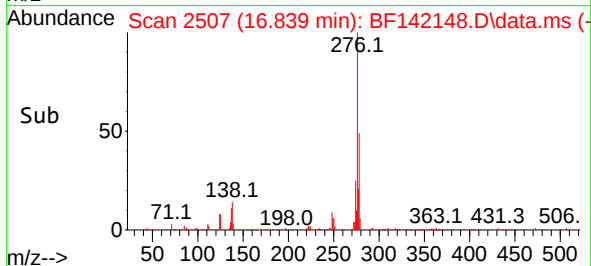
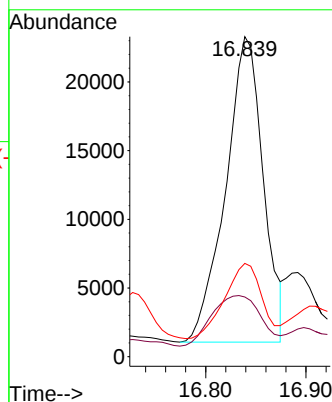
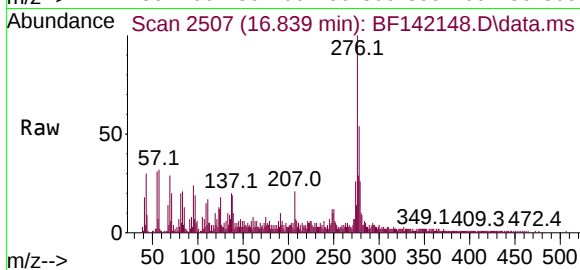
Tgt Ion:276 Resp: 58025

Ion Ratio Lower Upper

276 100

138 21.5 18.4 27.6

277 24.4 20.3 30.5



#88

Benzo(b)fluoranthene

Concen: 73.989 ng

RT: 15.086 min Scan# 2209

Delta R.T. 0.006 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

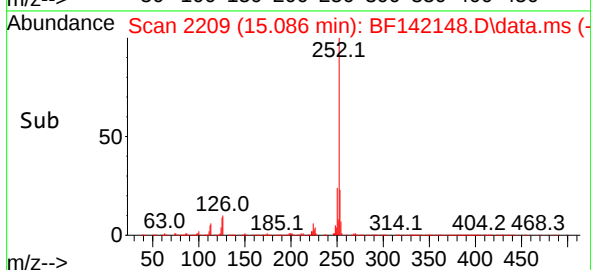
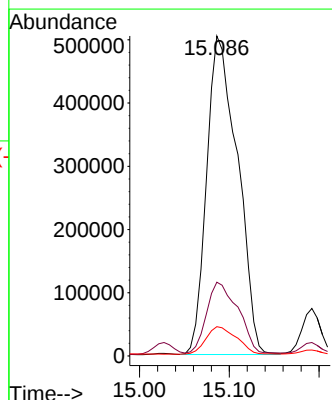
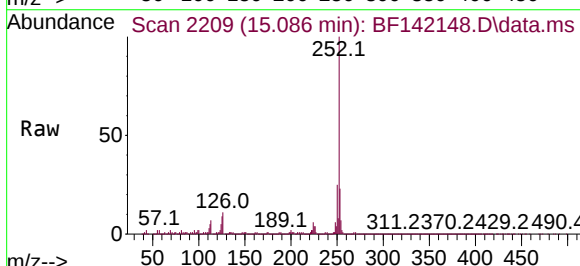
Tgt Ion:252 Resp: 1204032

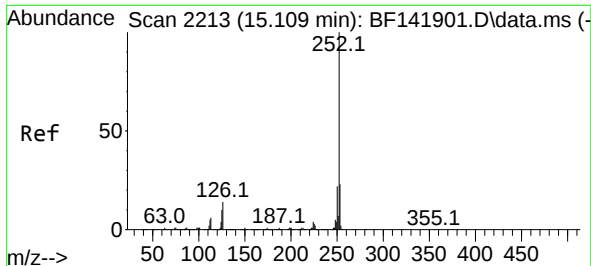
Ion Ratio Lower Upper

252 100

253 23.1 17.5 26.3

125 9.2 7.0 10.4

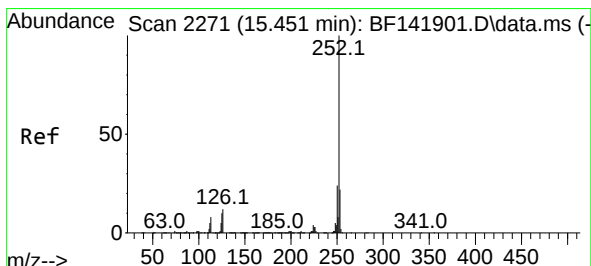
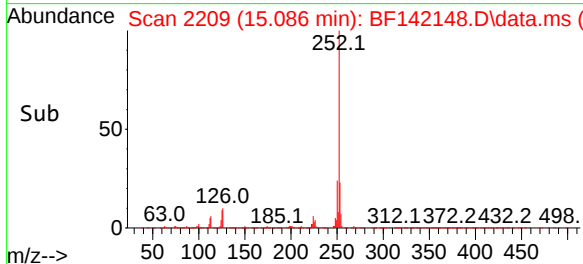
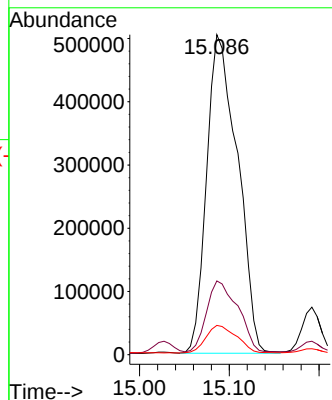
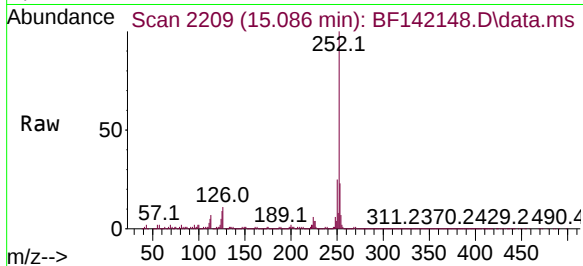




#89
Benzo(k)fluoranthene
Concen: 86.458 ng
RT: 15.086 min Scan# 21
Delta R.T. -0.023 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

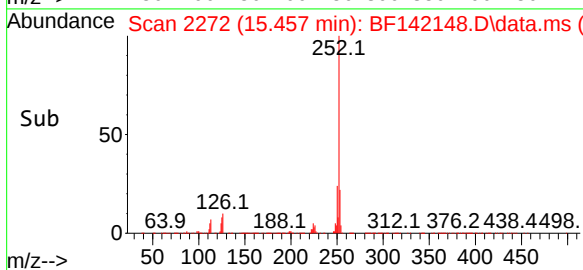
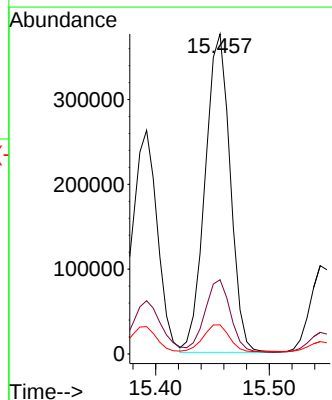
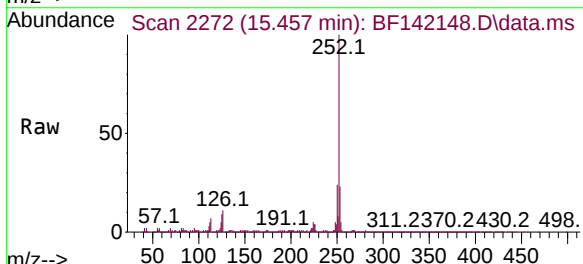
Instrument :
BNA_F
ClientSampleId :
PAT-1-032525

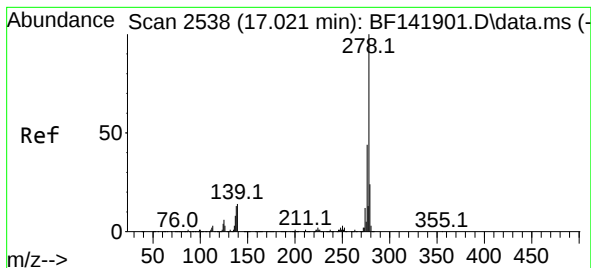
Tgt Ion:252 Resp: 1204032
Ion Ratio Lower Upper
252 100
253 23.1 17.7 26.5
125 9.2 7.2 10.8



#90
Benzo(a)pyrene
Concen: 45.277 ng
RT: 15.457 min Scan# 2272
Delta R.T. 0.006 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

Tgt Ion:252 Resp: 576525
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.0
125 9.1 7.8 11.8





#91

Dibenzo(a,h)anthracene

Concen: 6.437 ng

RT: 17.015 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

Instrument :

BNA_F

ClientSampleId :

PAT-1-032525

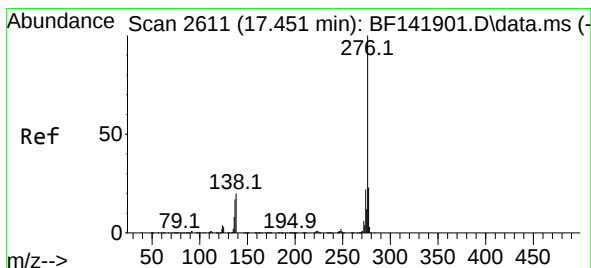
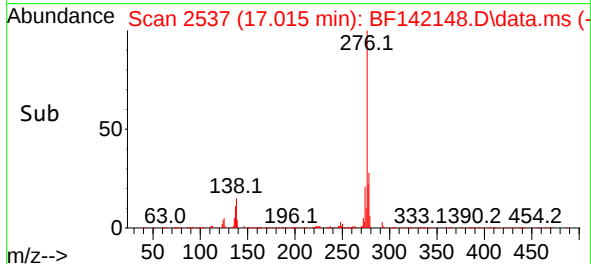
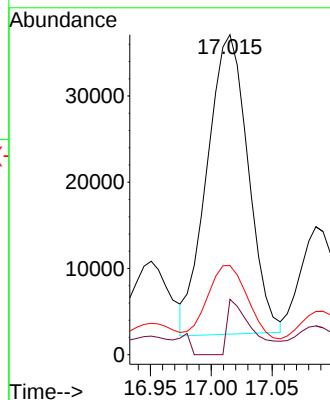
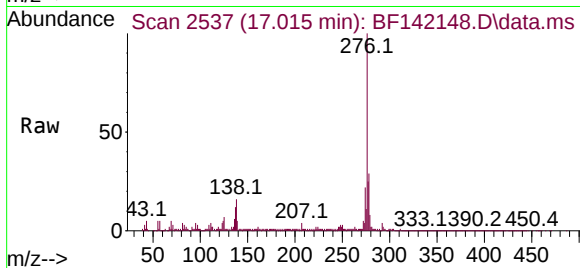
Tgt Ion:278 Resp: 81575

Ion Ratio Lower Upper

278 100

139 17.3 11.4 17.2#

279 27.8 18.8 28.2



#92

Benzo(g,h,i)perylene

Concen: 25.287 ng

RT: 17.457 min Scan# 2612

Delta R.T. 0.006 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

Tgt Ion:276 Resp: 316674

Ion Ratio Lower Upper

276 100

277 24.5 18.7 28.1

138 17.7 15.8 23.8

