

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030425\
 Data File : BF141833.D
 Acq On : 04 Mar 2025 18:15
 Operator : RC/JU
 Sample : Q1480-09 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2

Quant Time: Mar 05 00:18:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 28 01:48:16 2025
 Response via : Initial Calibration

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

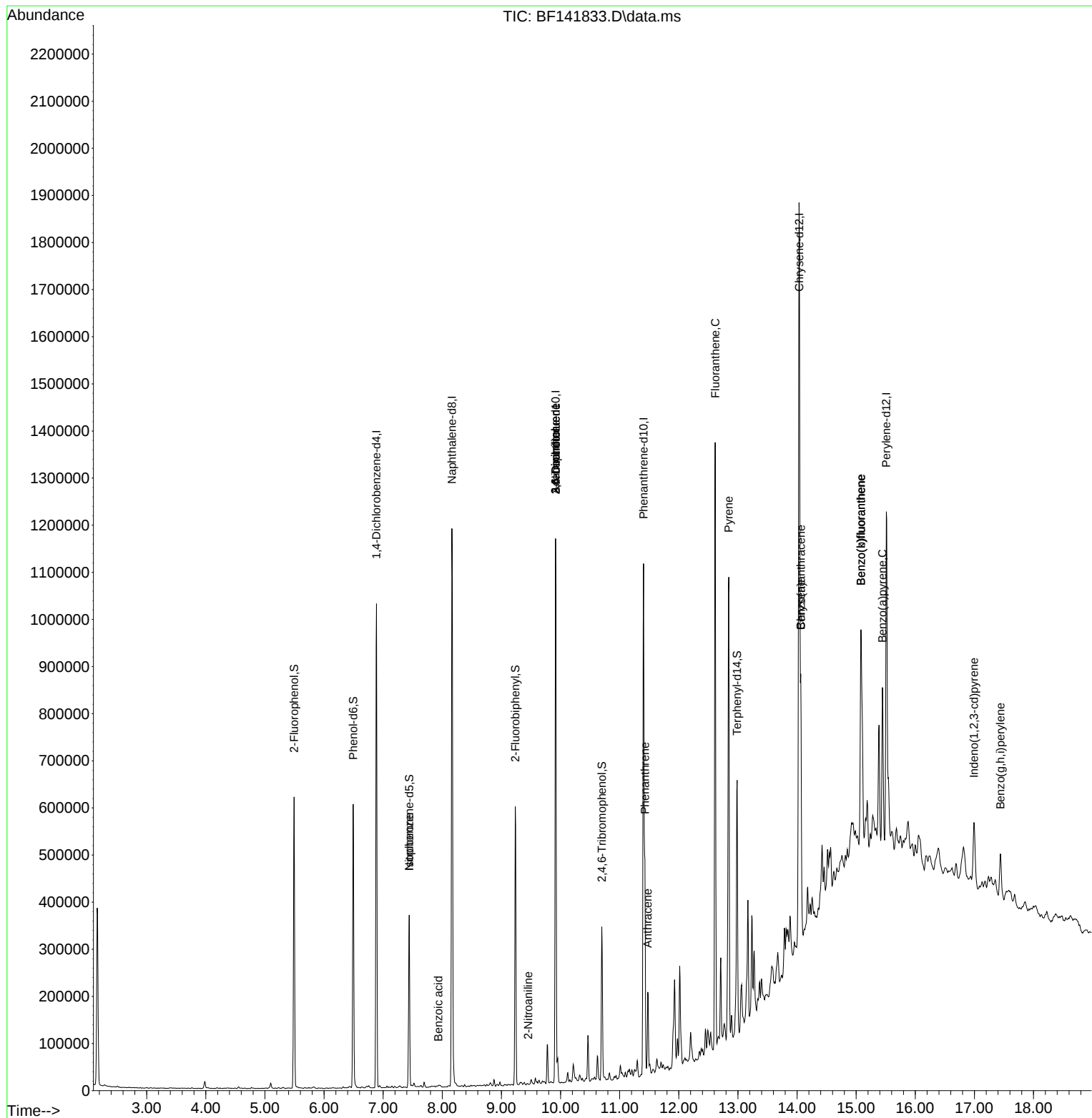
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	213724	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	735458	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	328585	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	533475	20.000	ng	0.00
76) Chrysene-d12	14.039	240	507747	20.000	ng	-0.01
86) Perylene-d12	15.510	264	420246	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	224260	16.757	ng	0.00
7) Phenol-d6	6.493	99	264795	15.201	ng	-0.02
23) Nitrobenzene-d5	7.440	82	154180	13.400	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	45067	14.609	ng	-0.02
45) 2-Fluorobiphenyl	9.234	172	257517	12.566	ng	-0.01
79) Terphenyl-d14	12.986	244	257063	8.191	ng	-0.01
Target Compounds						Qvalue
25) Isophorone	7.440	82	152620	6.174	ng	# 66
32) Benzoic acid	7.934	122	266	7.720	ng	93
48) 2-Nitroaniline	9.451	65	381	4.408	ng	# 6
51) 2,6-Dinitrotoluene	9.916	165	43993	12.664	ng	# 21
53) 3-Nitroaniline	9.916	138	55	2.978	ng	# 1
57) 2,4-Dinitrotoluene	9.916	165	43993	11.453	ng	# 20
71) Phenanthrene	11.428	178	232124	8.135	ng	98
72) Anthracene	11.475	178	100657	3.520	ng	98
75) Fluoranthene	12.616	202	694594	23.755	ng	98
78) Pyrene	12.845	202	561870	12.779	ng	99
81) Benzo(a)anthracene	14.063	228	286718	8.549	ng	95
83) Chrysene	14.063	228	286718	9.274	ng	97
87) Indeno(1,2,3-cd)pyrene	16.992	276	92773	3.467	ng	96
88) Benzo(b)fluoranthene	15.080	252	400684	13.997	ng	# 96
89) Benzo(k)fluoranthene	15.080	252	400684	16.468	ng	96
90) Benzo(a)pyrene	15.445	252	196066	8.540	ng	97
92) Benzo(g,h,i)perylene	17.439	276	87017	3.889	ng	99

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

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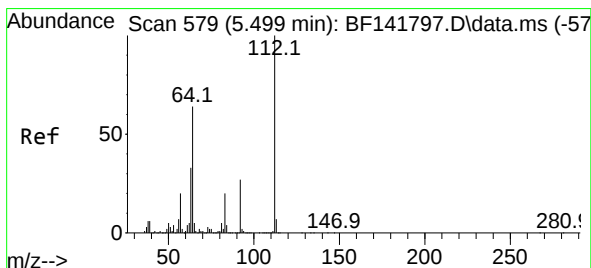
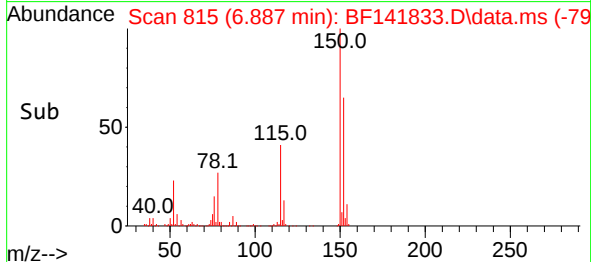
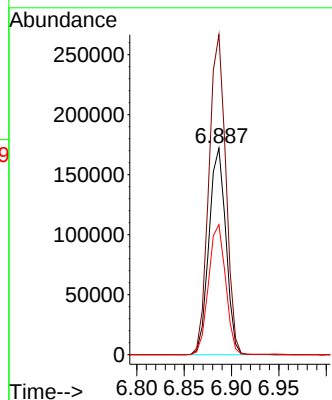
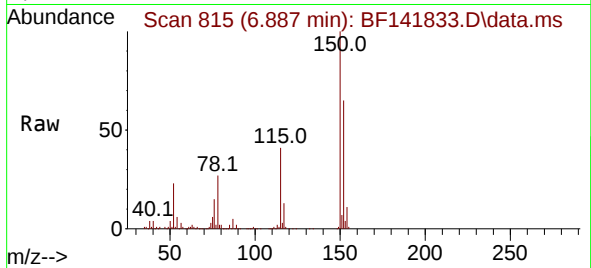




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.887 min Scan# 816
 Delta R.T. -0.006 min
 Lab File: BF141833.D
 Acq: 04 Mar 2025 18:15

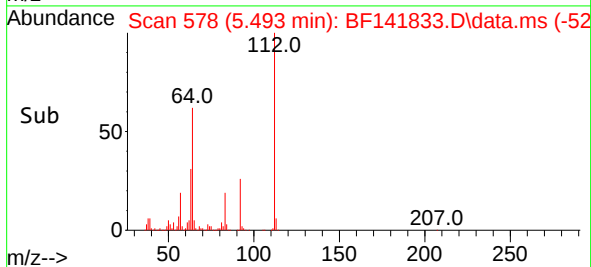
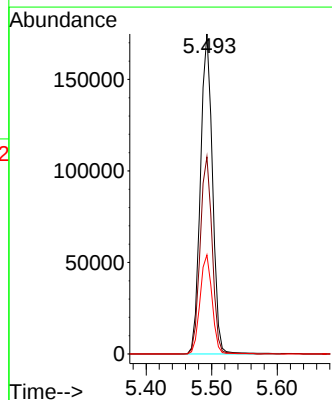
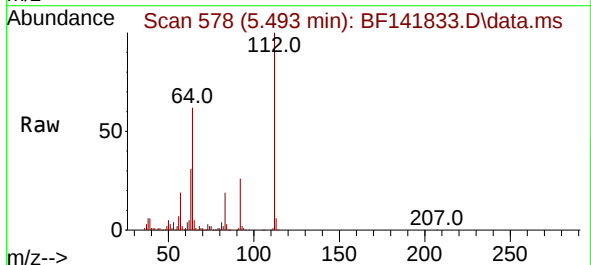
Instrument :
 BNA_F
 ClientSampleId :
 TP-2

Tgt Ion:152 Resp: 213724
 Ion Ratio Lower Upper
 152 100
 150 154.9 127.5 191.3
 115 63.0 51.4 77.2



#5
 2-Fluorophenol
 Concen: 16.757 ng
 RT: 5.493 min Scan# 578
 Delta R.T. -0.006 min
 Lab File: BF141833.D
 Acq: 04 Mar 2025 18:15

Tgt Ion:112 Resp: 224260
 Ion Ratio Lower Upper
 112 100
 64 61.6 51.3 76.9
 63 31.0 26.2 39.4

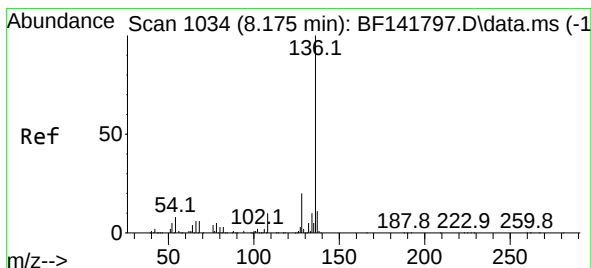
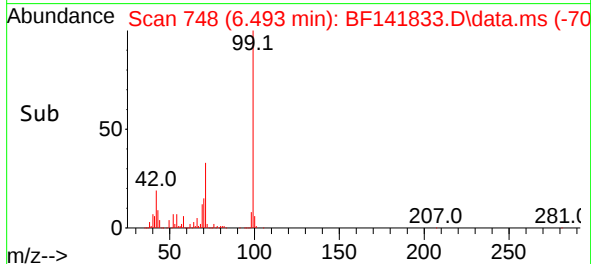
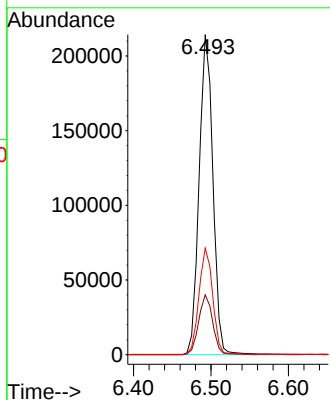
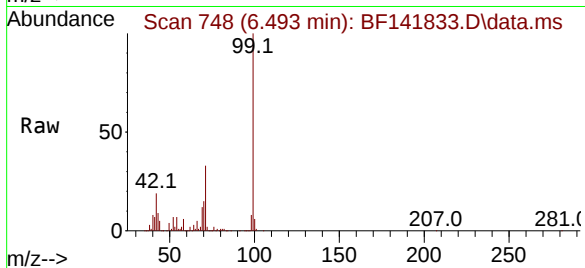




#7
Phenol-d6
Concen: 15.201 ng
RT: 6.493 min Scan# 74
Delta R.T. -0.018 min
Lab File: BF141833.D
Acq: 04 Mar 2025 18:15

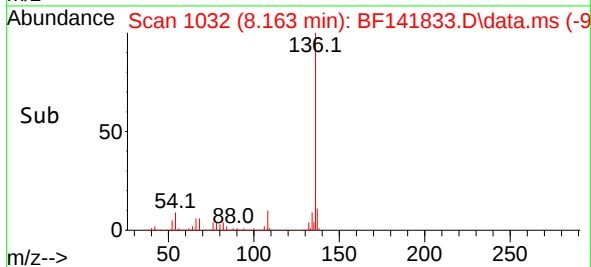
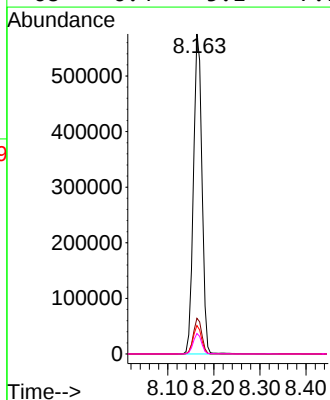
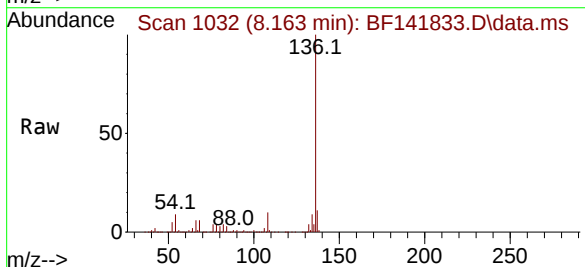
Instrument :
BNA_F
ClientSampleId :
TP-2

Tgt Ion: 99 Resp: 264795
Ion Ratio Lower Upper
99 100
42 18.7 15.2 22.8
71 33.3 28.2 42.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141833.D
Acq: 04 Mar 2025 18:15

Tgt Ion:136 Resp: 735458
Ion Ratio Lower Upper
136 100
137 11.2 8.9 13.3
54 8.9 6.9 10.3
68 6.4 5.1 7.7





#23

Nitrobenzene-d5

Concen: 13.400 ng

RT: 7.440 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF141833.D

Acq: 04 Mar 2025 18:15

Instrument :

BNA_F

ClientSampleId :

TP-2

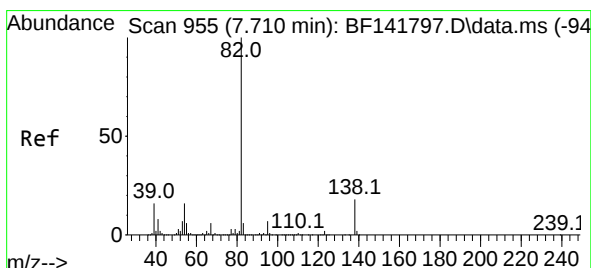
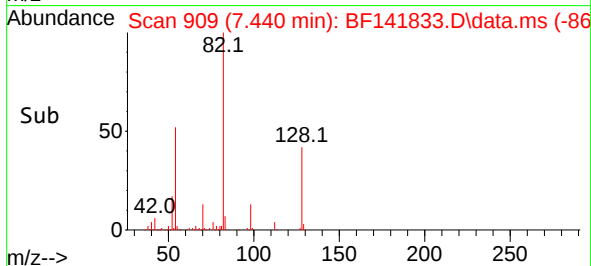
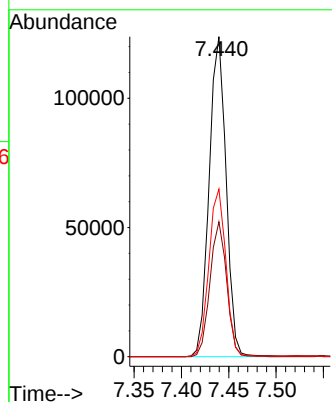
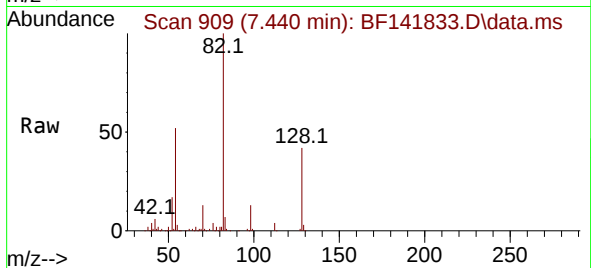
Tgt Ion: 82 Resp: 154180

Ion Ratio Lower Upper

82 100

128 42.2 33.5 50.3

54 52.4 42.7 64.1



#25

Isophorone

Concen: 6.174 ng

RT: 7.440 min Scan# 909

Delta R.T. -0.271 min

Lab File: BF141833.D

Acq: 04 Mar 2025 18:15

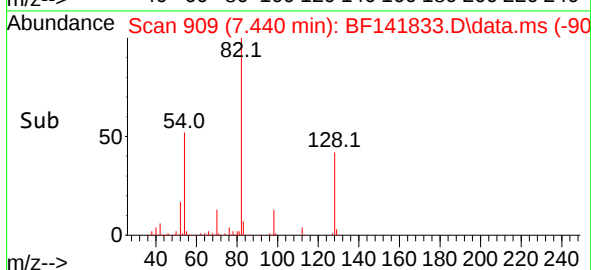
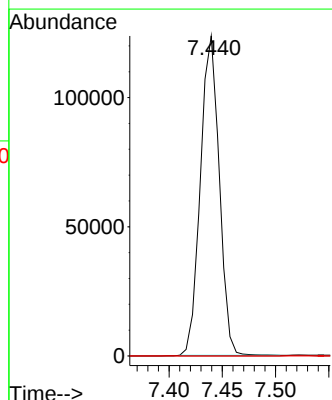
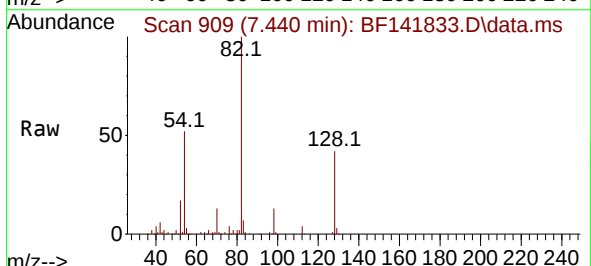
Tgt Ion: 82 Resp: 152620

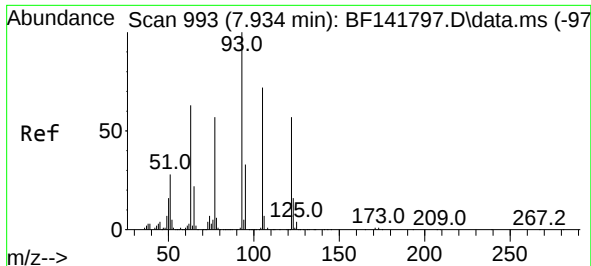
Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.8#

138 0.0 14.0 21.0#

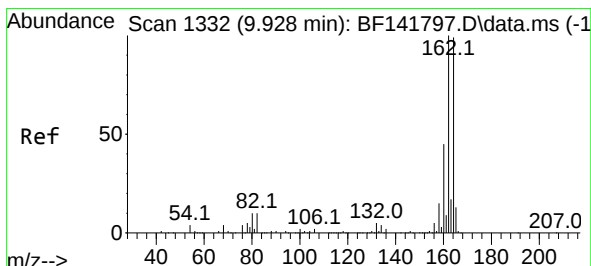
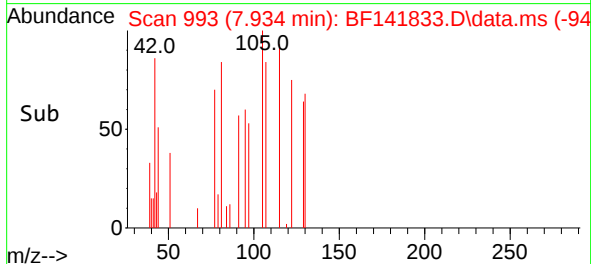
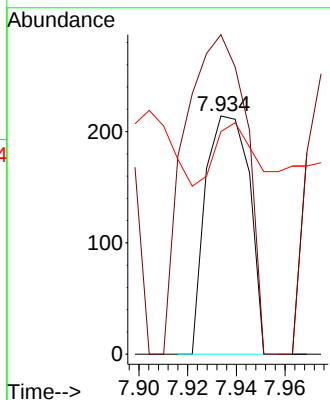
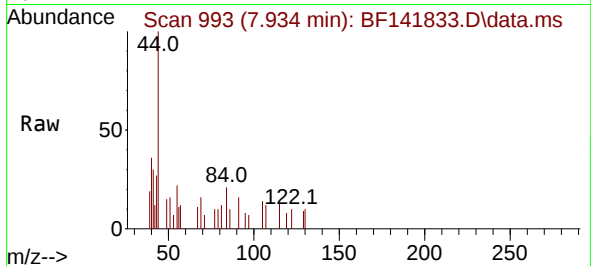




#32
Benzoic acid
Concen: 7.720 ng
RT: 7.934 min Scan# 993
Delta R.T. -0.000 min
Lab File: BF141833.D
Acq: 04 Mar 2025 18:15

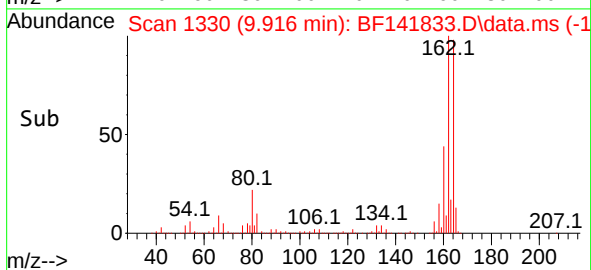
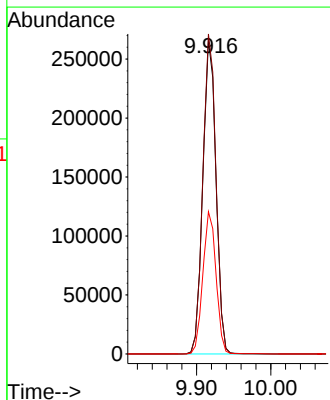
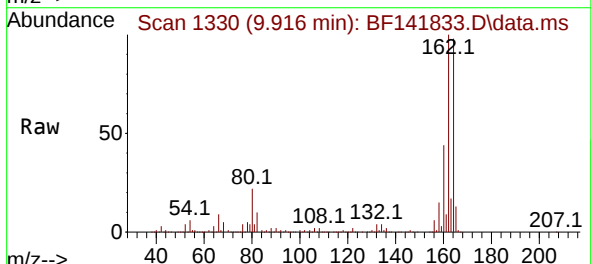
Instrument :
BNA_F
ClientSampleId :
TP-2

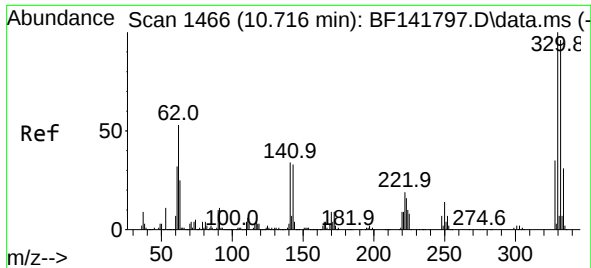
Tgt Ion:	122	Resp:	266
Ion	Ratio	Lower	Upper
122	100		
105	134.1	105.8	145.8
77	93.5	79.9	119.9



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141833.D
Acq: 04 Mar 2025 18:15

Tgt Ion:	164	Resp:	328585
Ion	Ratio	Lower	Upper
164	100		
162	102.1	80.6	120.8
160	45.4	36.3	54.5





#42

2,4,6-Tribromophenol

Concen: 14.609 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.018 min

Lab File: BF141833.D

Acq: 04 Mar 2025 18:15

Instrument :

BNA_F

ClientSampleId :

TP-2

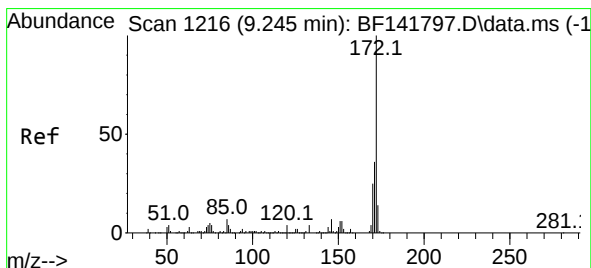
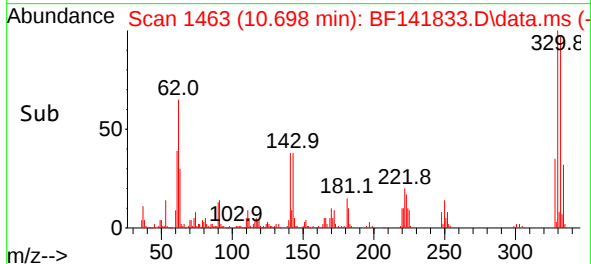
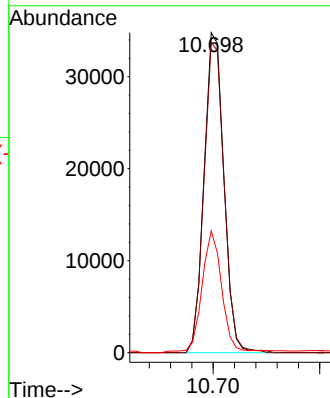
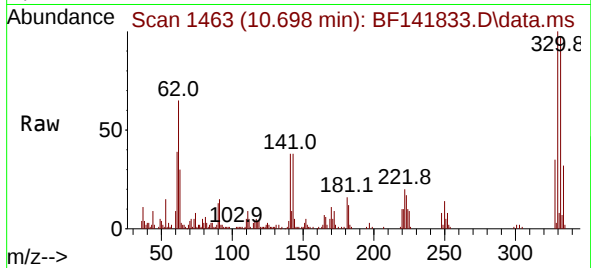
Tgt Ion:330 Resp: 45067

Ion Ratio Lower Upper

330 100

332 98.1 76.6 115.0

141 39.1 29.0 43.4



#45

2-Fluorobiphenyl

Concen: 12.566 ng

RT: 9.234 min Scan# 1214

Delta R.T. -0.012 min

Lab File: BF141833.D

Acq: 04 Mar 2025 18:15

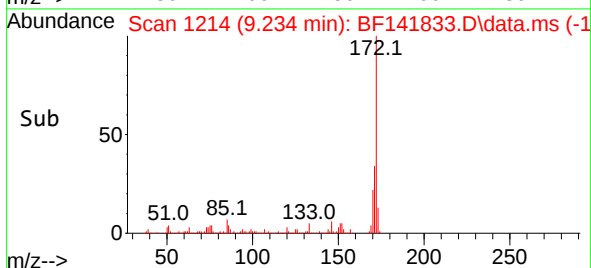
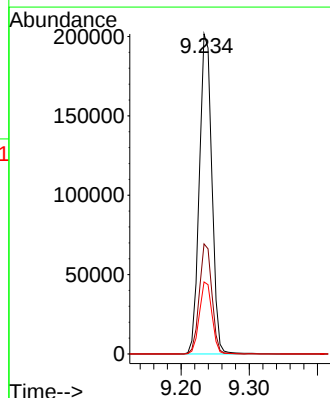
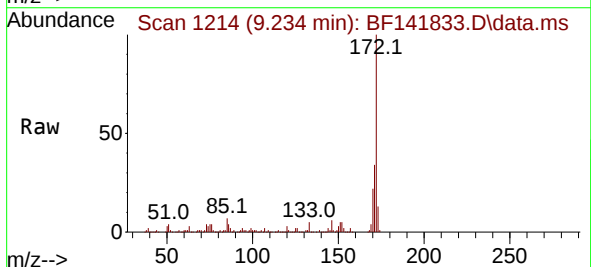
Tgt Ion:172 Resp: 257517

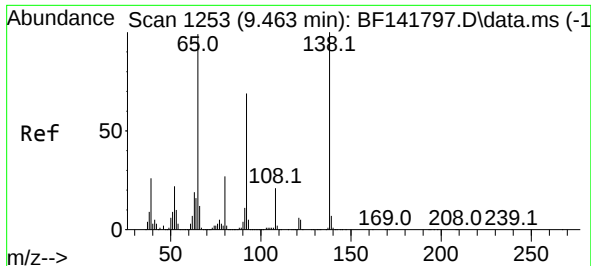
Ion Ratio Lower Upper

172 100

171 34.4 29.2 43.8

170 22.5 19.7 29.5

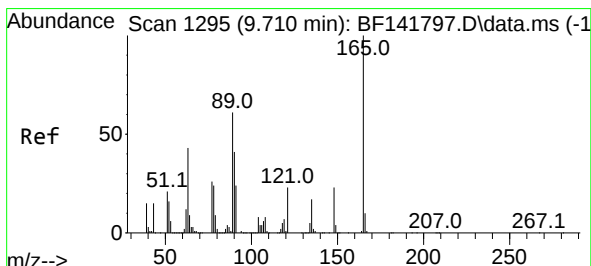
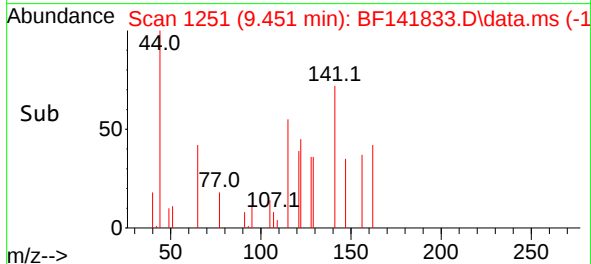
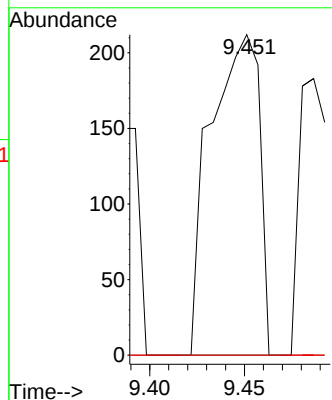
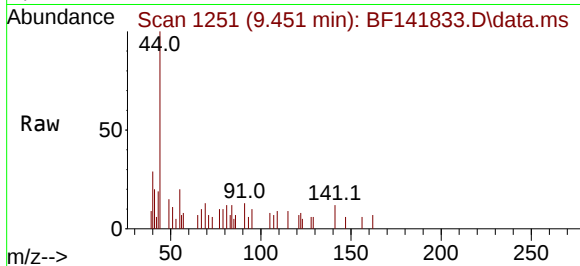




#48
2-Nitroaniline
Concen: 4.408 ng
RT: 9.451 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141833.D
Acq: 04 Mar 2025 18:15

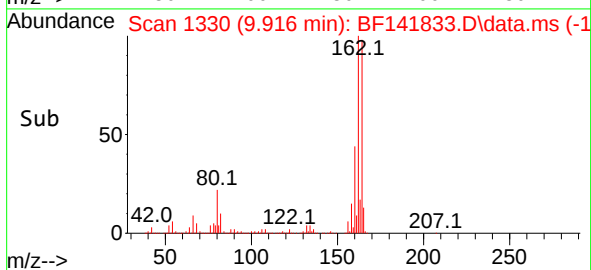
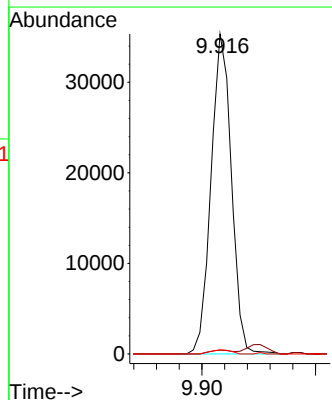
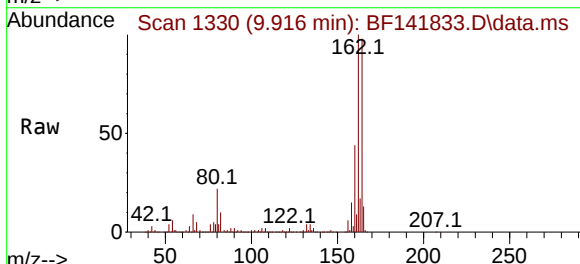
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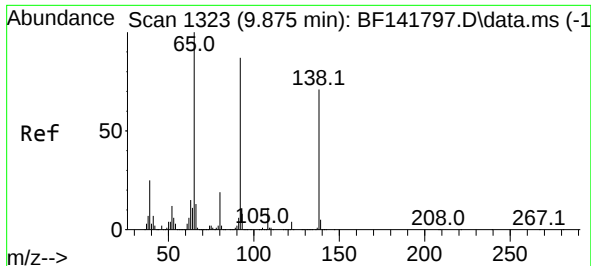
Tgt Ion: 65 Resp: 381
Ion Ratio Lower Upper
65 100
92 0.0 55.7 83.5#
138 0.0 80.6 121.0#



#51
2,6-Dinitrotoluene
Concen: 12.664 ng
RT: 9.916 min Scan# 1330
Delta R.T. 0.206 min
Lab File: BF141833.D
Acq: 04 Mar 2025 18:15

Tgt Ion:165 Resp: 43993
Ion Ratio Lower Upper
165 100
63 1.2 49.5 74.3#
89 1.3 49.0 73.4#





#53
3-Nitroaniline
Concen: 2.978 ng
RT: 9.916 min Scan# 11
Delta R.T. 0.041 min
Lab File: BF141833.D
Acq: 04 Mar 2025 18:15

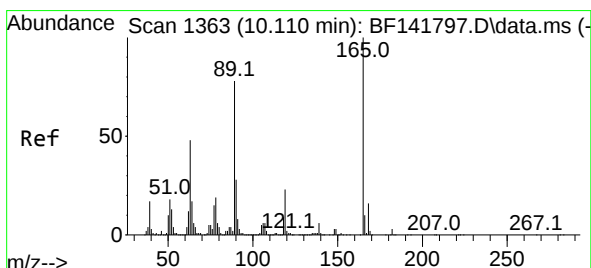
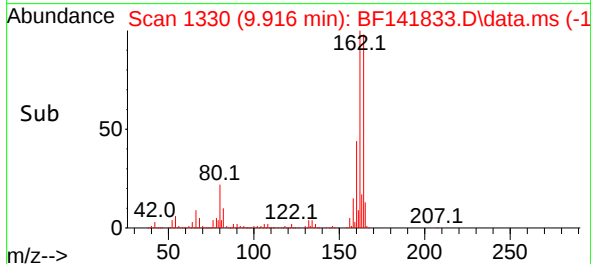
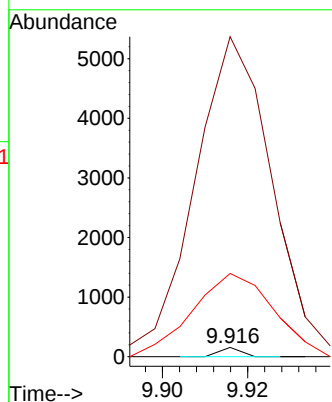
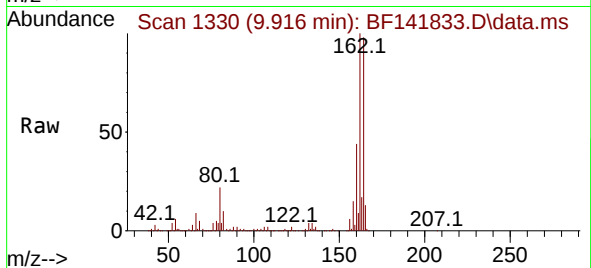
Instrument :

BNA_F

ClientSampleId :

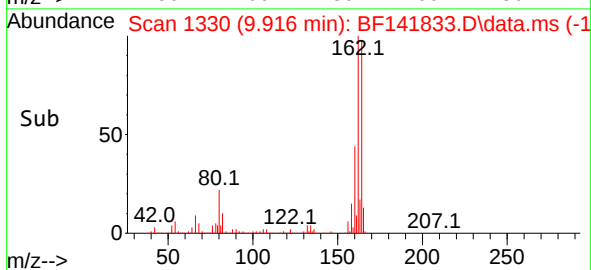
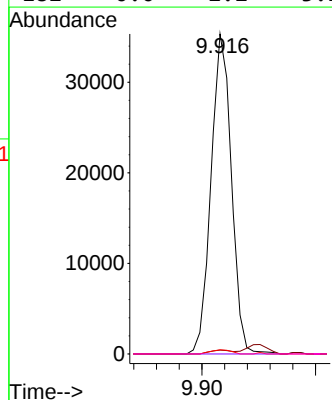
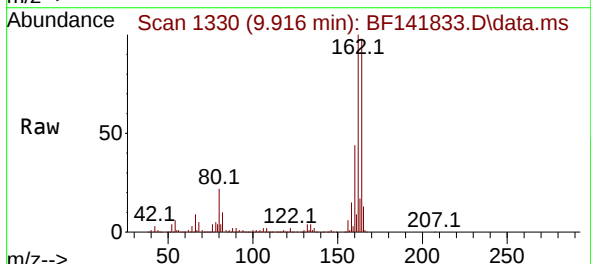
TP-2

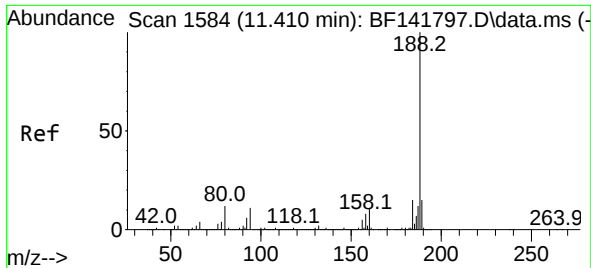
Tgt Ion:138 Resp: 55
Ion Ratio Lower Upper
138 100
108 3464.5 12.7 19.1#
92 900.6 97.9 146.9#



#57
2,4-Dinitrotoluene
Concen: 11.453 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.194 min
Lab File: BF141833.D
Acq: 04 Mar 2025 18:15

Tgt Ion:165 Resp: 43993
Ion Ratio Lower Upper
165 100
63 1.2 38.8 58.2#
89 1.3 62.6 94.0#
182 0.0 2.2 3.2#

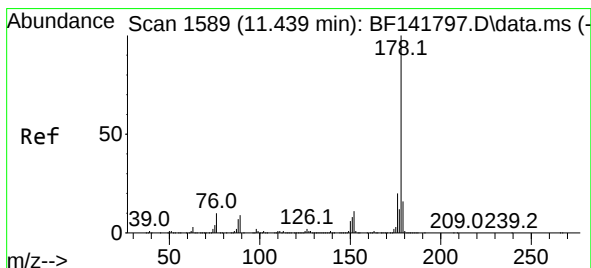
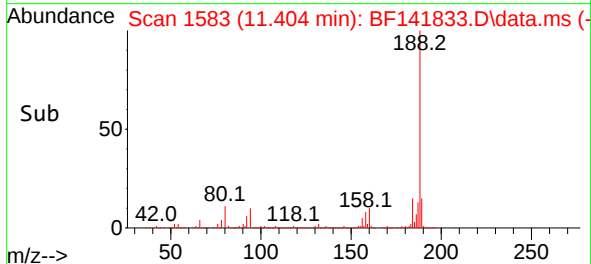
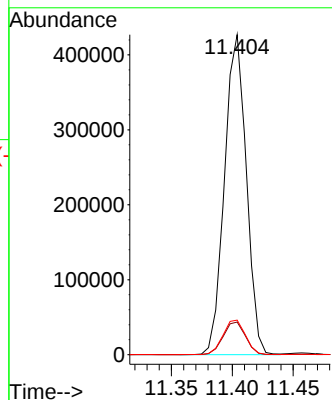
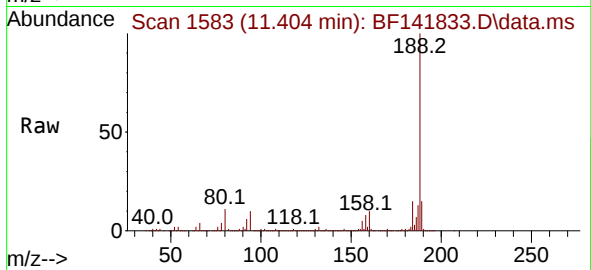




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141833.D
Acq: 04 Mar 2025 18:15

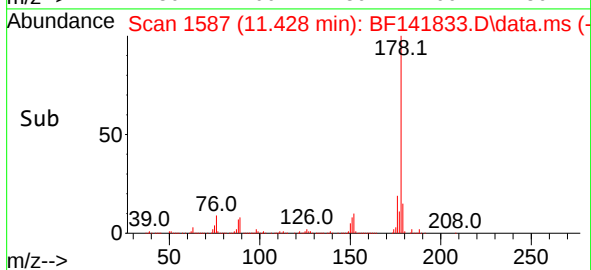
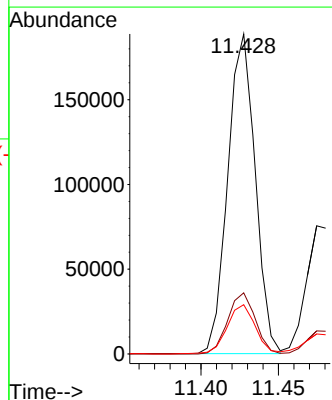
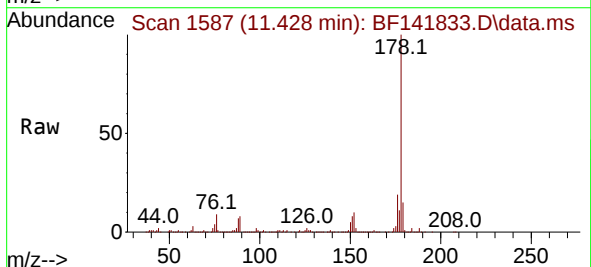
Instrument :
BNA_F
ClientSampleId :
TP-2

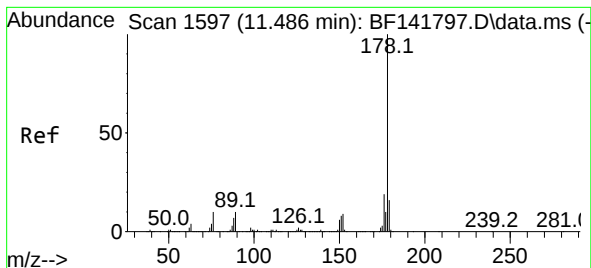
Tgt Ion:188 Resp: 533475
Ion Ratio Lower Upper
188 100
94 10.2 8.9 13.3
80 10.8 9.7 14.5



#71
Phenanthrene
Concen: 8.135 ng
RT: 11.428 min Scan# 1587
Delta R.T. -0.012 min
Lab File: BF141833.D
Acq: 04 Mar 2025 18:15

Tgt Ion:178 Resp: 232124
Ion Ratio Lower Upper
178 100
176 19.1 16.0 24.0
179 15.4 12.6 19.0





#72

Anthracene

Concen: 3.520 ng

RT: 11.475 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF141833.D

Acq: 04 Mar 2025 18:15

Instrument :

BNA_F

ClientSampleId :

TP-2

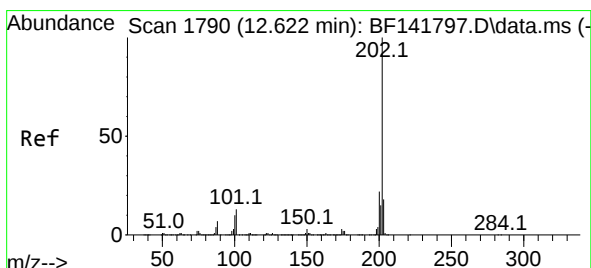
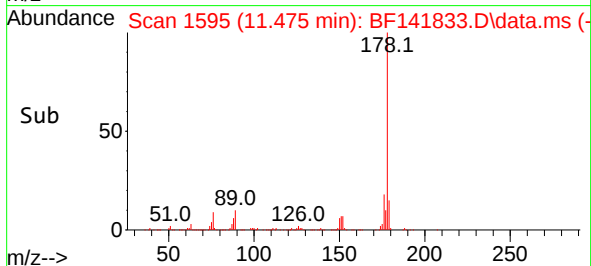
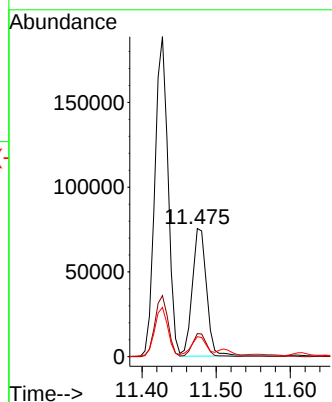
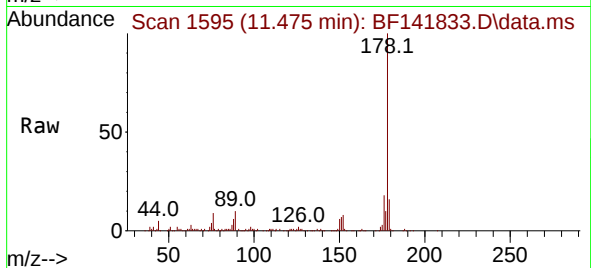
Tgt Ion:178 Resp: 100657

Ion Ratio Lower Upper

178 100

176 18.0 15.4 23.0

179 15.6 12.8 19.2



#75

Fluoranthene

Concen: 23.755 ng

RT: 12.616 min Scan# 1789

Delta R.T. -0.006 min

Lab File: BF141833.D

Acq: 04 Mar 2025 18:15

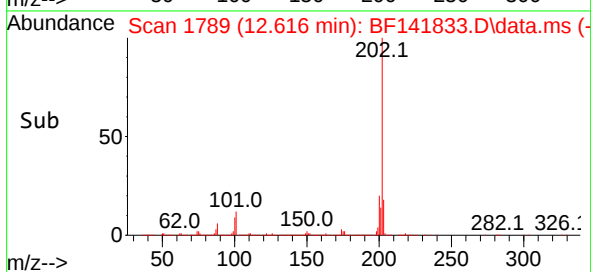
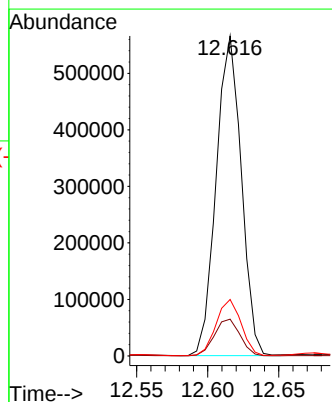
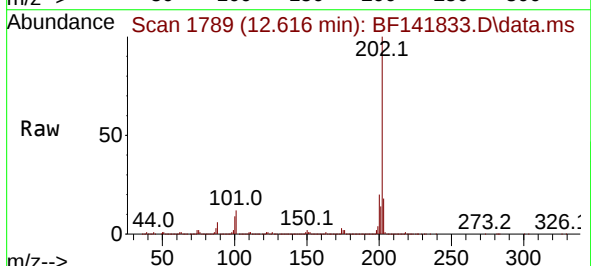
Tgt Ion:202 Resp: 694594

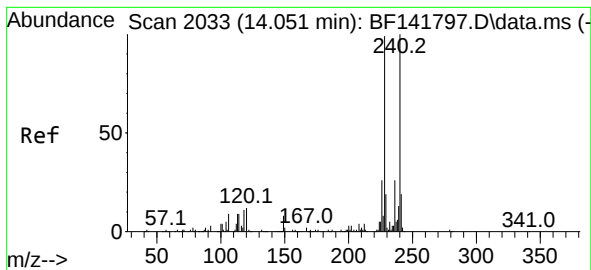
Ion Ratio Lower Upper

202 100

101 11.5 0.0 32.8

203 17.7 0.0 38.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.039 min Scan# 2033

Delta R.T. -0.012 min

Lab File: BF141833.D

Acq: 04 Mar 2025 18:15

Instrument :

BNA_F

ClientSampleId :

TP-2

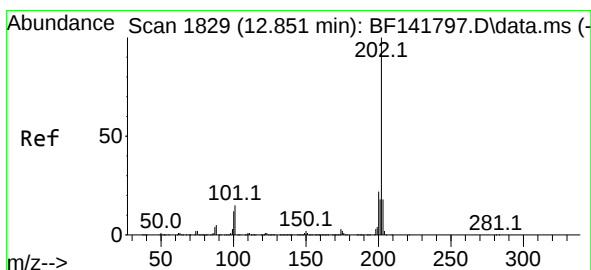
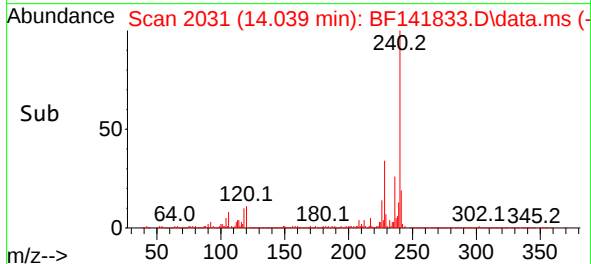
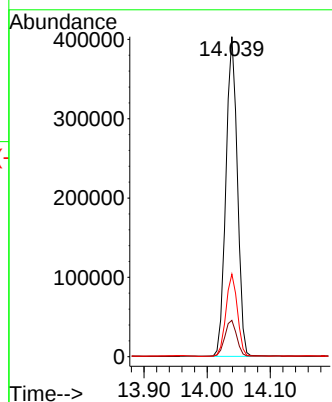
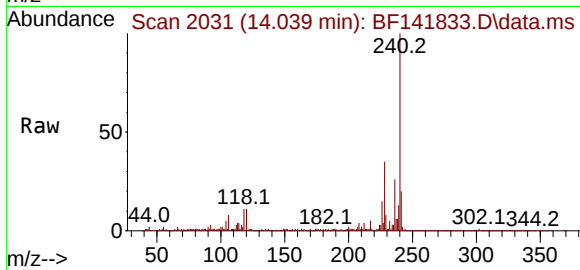
Tgt Ion:240 Resp: 507747

Ion Ratio Lower Upper

240 100

120 11.4 9.7 14.5

236 25.8 21.0 31.4



#78

Pyrene

Concen: 12.779 ng

RT: 12.845 min Scan# 1828

Delta R.T. -0.006 min

Lab File: BF141833.D

Acq: 04 Mar 2025 18:15

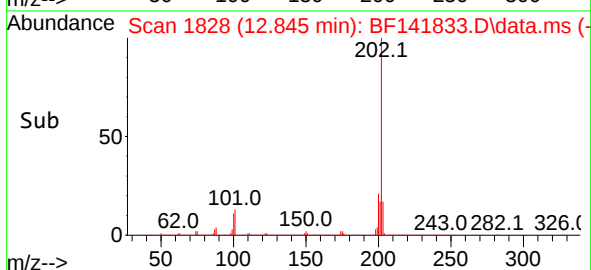
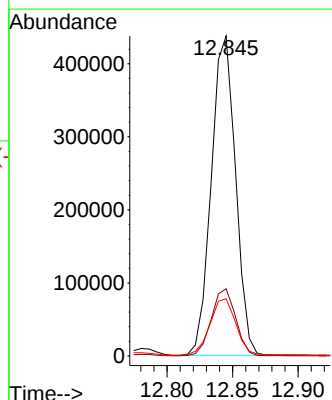
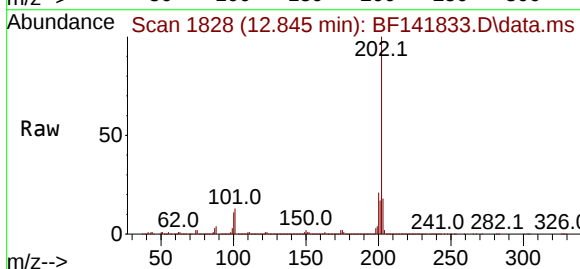
Tgt Ion:202 Resp: 561870

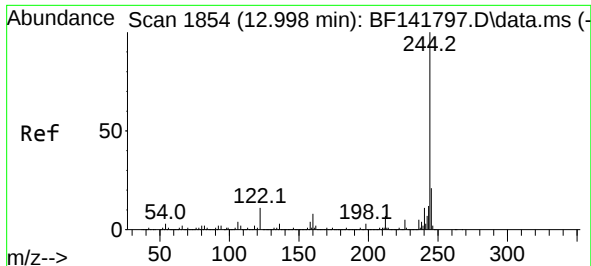
Ion Ratio Lower Upper

202 100

200 21.0 17.4 26.0

203 17.9 14.6 22.0

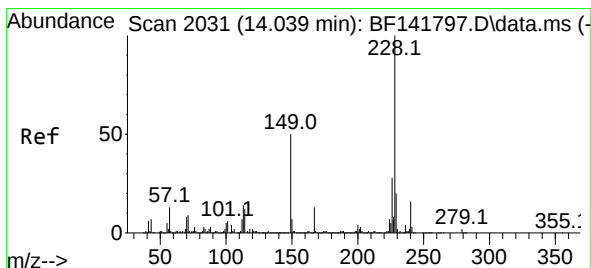
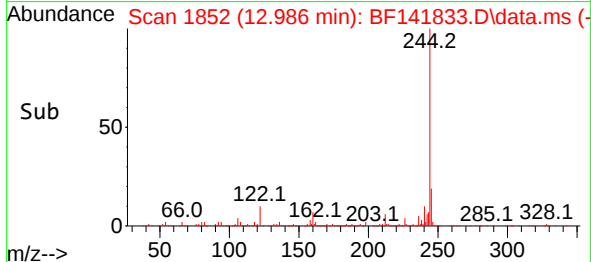
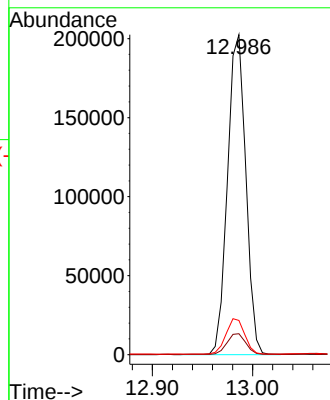
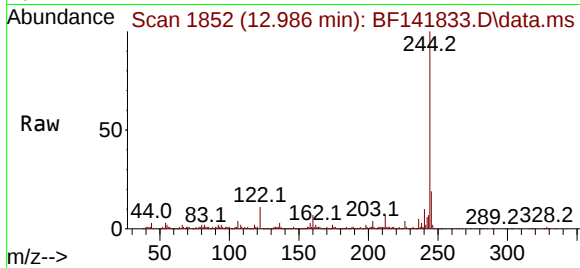




#79
 Terphenyl-d14
 Concen: 8.191 ng
 RT: 12.986 min Scan# 1852
 Delta R.T. -0.012 min
 Lab File: BF141833.D
 Acq: 04 Mar 2025 18:15

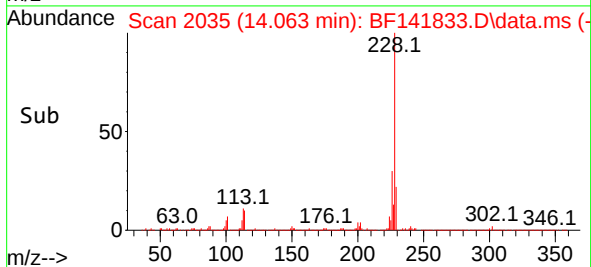
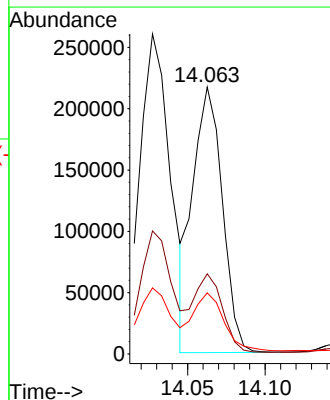
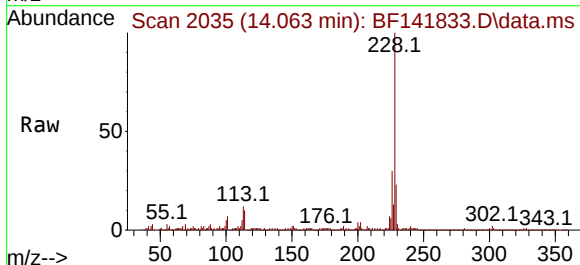
Instrument : BNA_F
 ClientSampleId : TP-2

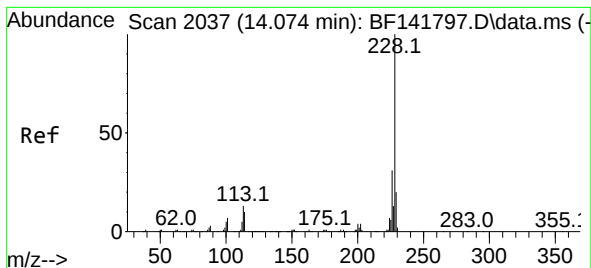
Tgt Ion:244 Resp: 257063
 Ion Ratio Lower Upper
 244 100
 212 6.6 6.0 9.0
 122 10.7 9.0 13.6



#81
 Benzo(a)anthracene
 Concen: 8.549 ng
 RT: 14.063 min Scan# 2035
 Delta R.T. 0.023 min
 Lab File: BF141833.D
 Acq: 04 Mar 2025 18:15

Tgt Ion:228 Resp: 286718
 Ion Ratio Lower Upper
 228 100
 226 30.0 22.1 33.1
 229 22.9 16.1 24.1





#83

Chrysene

Concen: 9.274 ng

RT: 14.063 min Scan# 2037

Delta R.T. -0.012 min

Lab File: BF141833.D

Acq: 04 Mar 2025 18:15

Instrument :

BNA_F

ClientSampleId :

TP-2

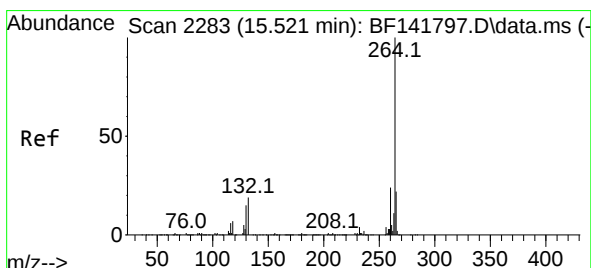
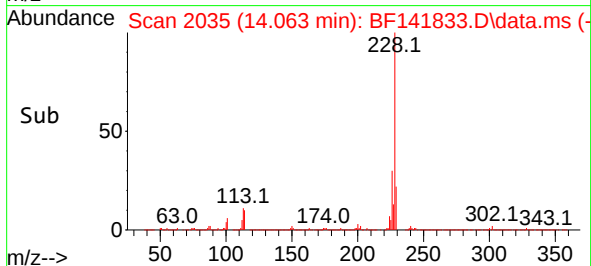
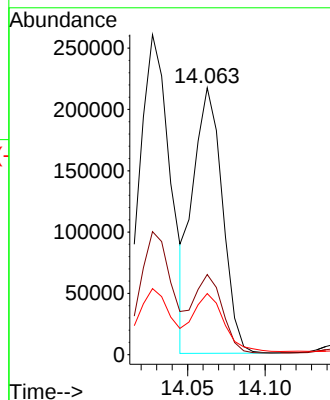
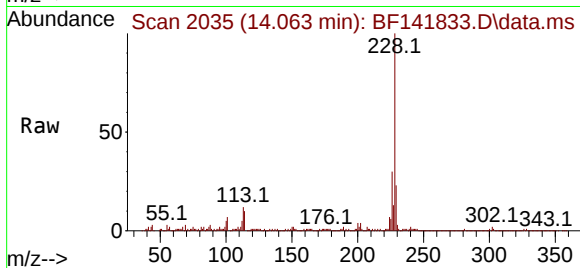
Tgt Ion:228 Resp: 286718

Ion Ratio Lower Upper

228 100

226 30.0 24.6 37.0

229 22.9 16.1 24.1



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 2281

Delta R.T. -0.012 min

Lab File: BF141833.D

Acq: 04 Mar 2025 18:15

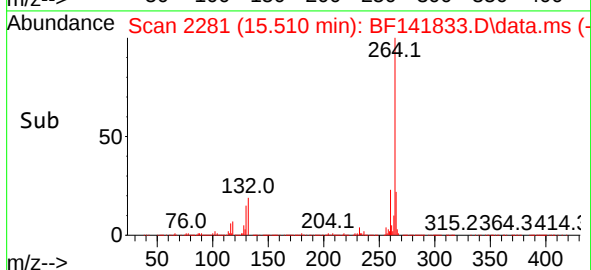
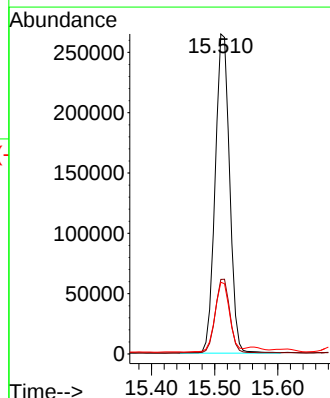
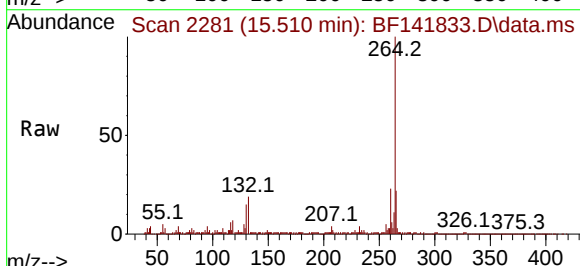
Tgt Ion:264 Resp: 420246

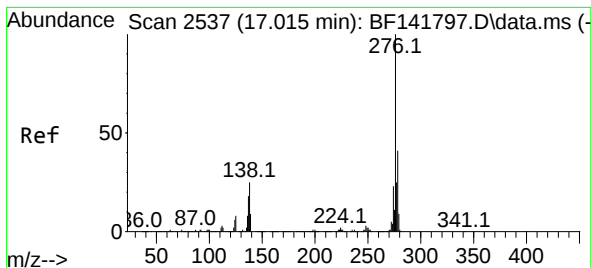
Ion Ratio Lower Upper

264 100

260 23.3 18.9 28.3

265 22.4 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.467 ng

RT: 16.992 min Scan# 21

Delta R.T. -0.024 min

Lab File: BF141833.D

Acq: 04 Mar 2025 18:15

Instrument :

BNA_F

ClientSampleId :

TP-2

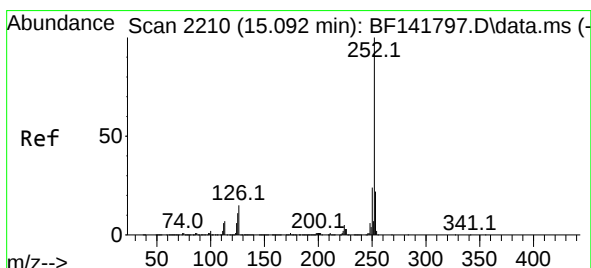
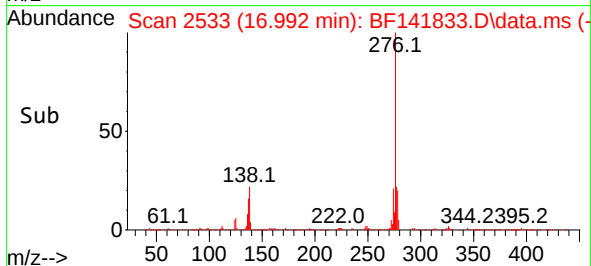
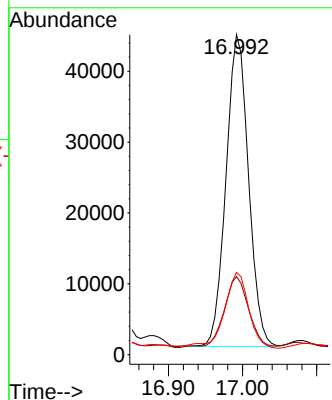
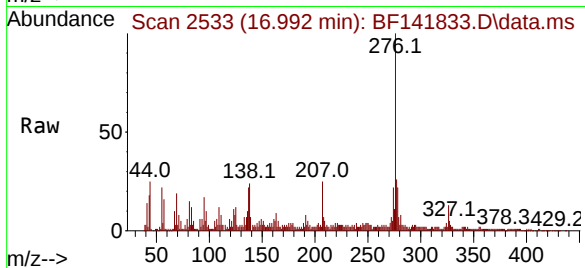
Tgt Ion:276 Resp: 92773

Ion Ratio Lower Upper

276 100

138 25.0 22.5 33.7

277 26.3 20.3 30.5



#88

Benzo(b)fluoranthene

Concen: 13.997 ng

RT: 15.080 min Scan# 2208

Delta R.T. -0.012 min

Lab File: BF141833.D

Acq: 04 Mar 2025 18:15

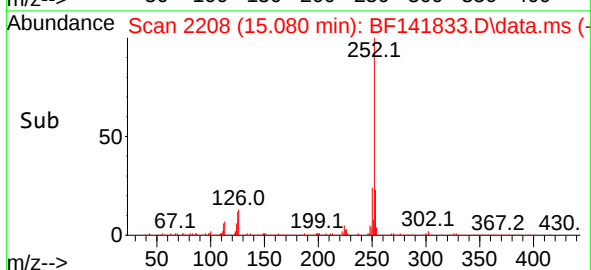
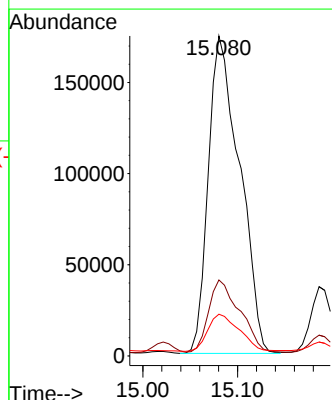
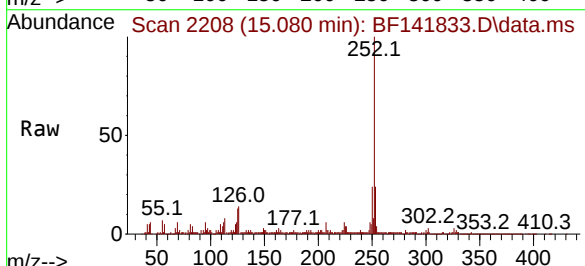
Tgt Ion:252 Resp: 400684

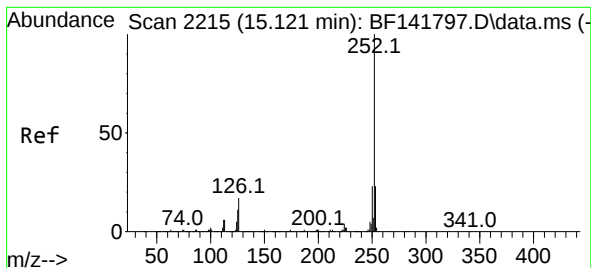
Ion Ratio Lower Upper

252 100

253 23.7 17.7 26.5

125 13.1 8.6 13.0#





#89

Benzo(k)fluoranthene

Concen: 16.468 ng

RT: 15.080 min Scan# 21

Delta R.T. -0.041 min

Lab File: BF141833.D

Acq: 04 Mar 2025 18:15

Instrument :

BNA_F

ClientSampleId :

TP-2

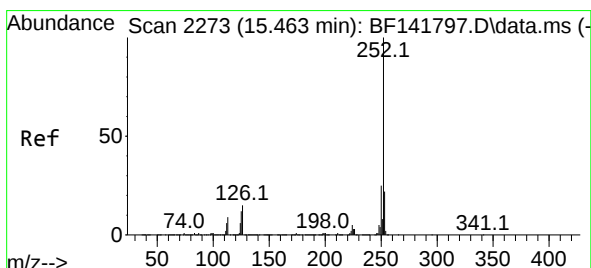
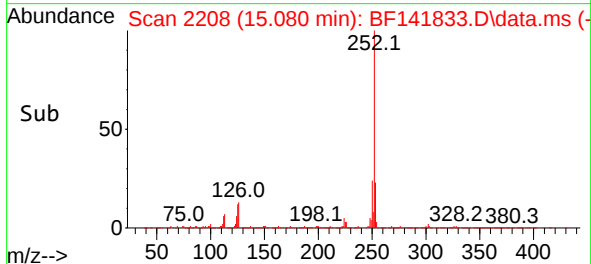
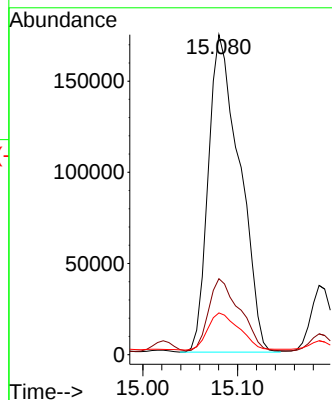
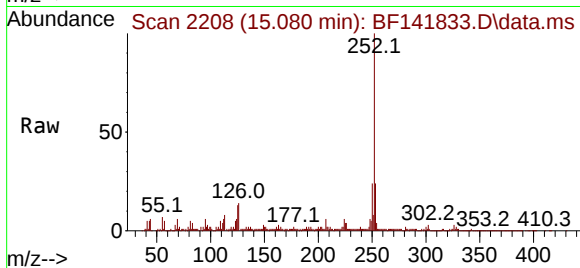
Tgt Ion:252 Resp: 400684

Ion Ratio Lower Upper

252 100

253 23.7 17.8 26.8

125 13.1 8.8 13.2



#90

Benzo(a)pyrene

Concen: 8.540 ng

RT: 15.445 min Scan# 2270

Delta R.T. -0.018 min

Lab File: BF141833.D

Acq: 04 Mar 2025 18:15

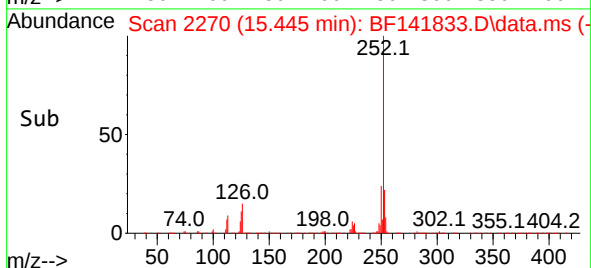
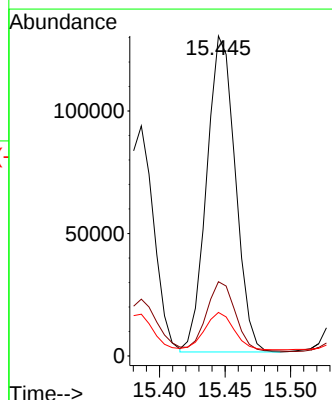
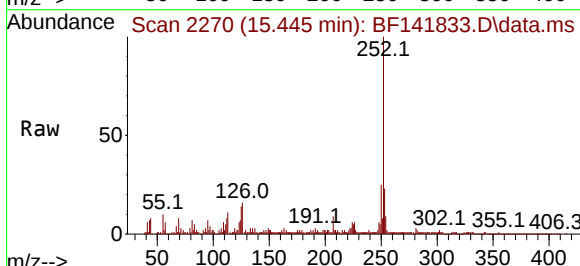
Tgt Ion:252 Resp: 196066

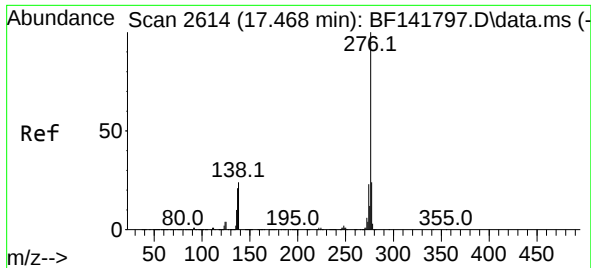
Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

125 13.6 9.4 14.2





#92
 Benzo(g,h,i)perylene
 Concen: 3.889 ng
 RT: 17.439 min Scan# 20
 Delta R.T. -0.029 min
 Lab File: BF141833.D
 Acq: 04 Mar 2025 18:15

Instrument :
 BNA_F
 ClientSampleId :
 TP-2

Tgt Ion:276 Resp: 87017
 Ion Ratio Lower Upper
 276 100
 277 25.1 19.4 29.0
 138 24.7 19.3 28.9

