

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101725\
 Data File : BF143994.D
 Acq On : 17 Oct 2025 19:41
 Operator : RC/JU
 Sample : Q3363-04
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PR132-SO3-010013-20251015

Quant Time: Oct 20 11:13:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 06 15:29:47 2025
 Response via : Initial Calibration

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

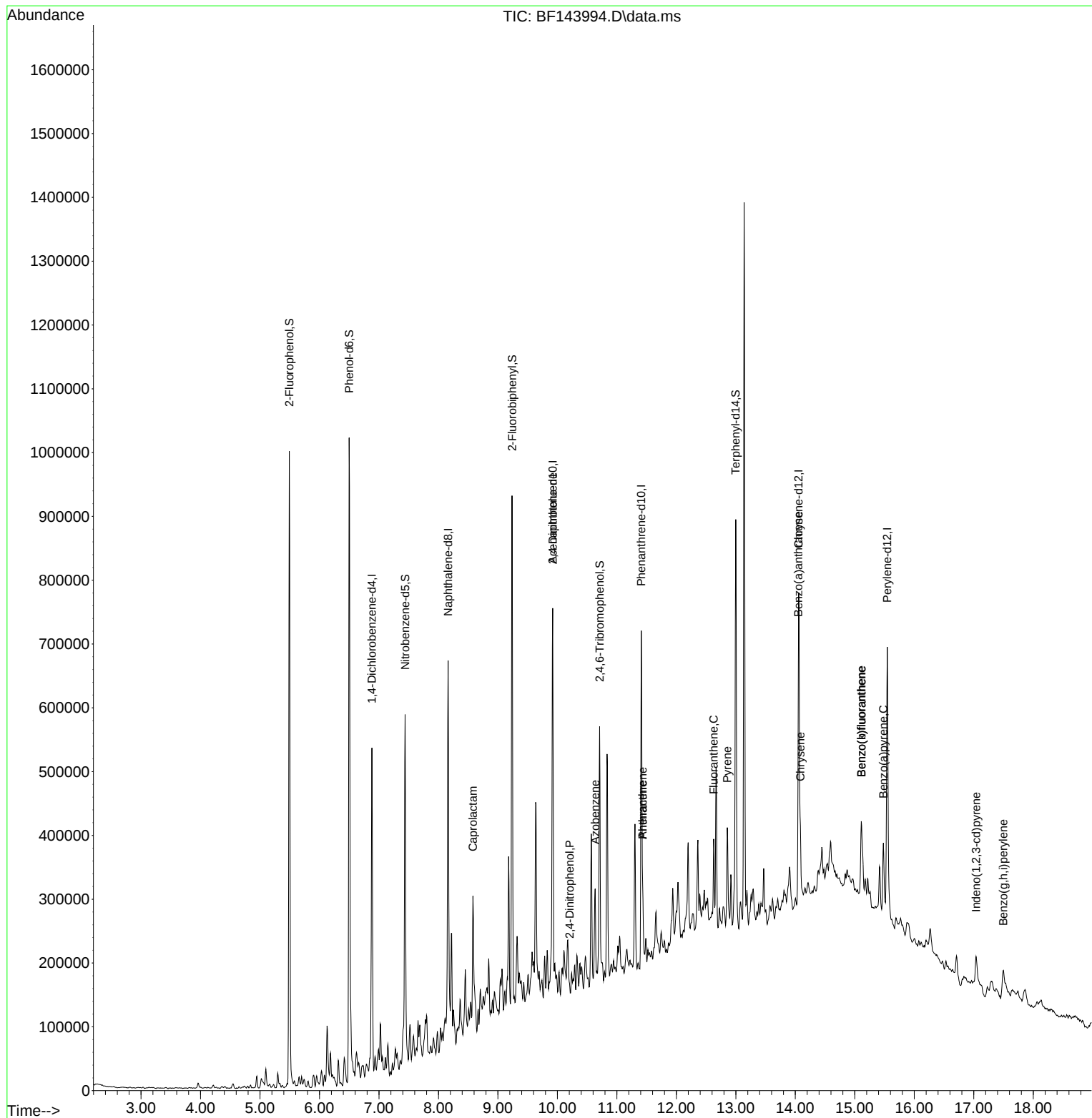
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	95256	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	358249	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	180230	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	275607	20.000	ng	0.00
76) Chrysene-d12	14.057	240	207243	20.000	ng	-0.01
86) Perylene-d12	15.545	264	275767	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	391537	65.272	ng	0.00
7) Phenol-d6	6.498	99	463866	64.876	ng	-0.02
23) Nitrobenzene-d5	7.439	82	231928	39.332	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	79717	44.407	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	397515	34.997	ng	-0.01
79) Terphenyl-d14	12.998	244	333237	27.481	ng	-0.01
Target Compounds						Qvalue
35) Caprolactam	8.581	113	6099	3.646	ng	# 1
54) 2,4-Dinitrophenol	10.204	184	868	7.546	ng	# 81
57) 2,4-Dinitrotoluene	9.922	165	25811	8.938	ng	# 27
63) Azobenzene	10.633	77	36403	3.276	ng	# 1
71) Phenanthrene	11.433	178	59711	4.469	ng	97
72) Anthracene	11.433	178	59711	4.424	ng	95
75) Fluoranthene	12.627	202	78903	5.717	ng	98
78) Pyrene	12.857	202	93212	5.395	ng	97
81) Benzo(a)anthracene	14.051	228	71493	5.272	ng	# 85
83) Chrysene	14.086	228	58705	4.677	ng	# 96
87) Indeno(1,2,3-cd)pyrene	17.039	276	36806	2.178	ng	97
88) Benzo(b)fluoranthene	15.110	252	99810	6.301	ng	# 89
89) Benzo(k)fluoranthene	15.110	252	99810	6.809	ng	# 90
90) Benzo(a)pyrene	15.480	252	69118	5.032	ng	# 89
92) Benzo(g,h,i)perylene	17.498	276	35340	2.600	ng	95

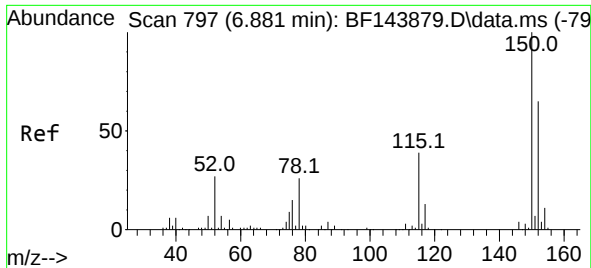
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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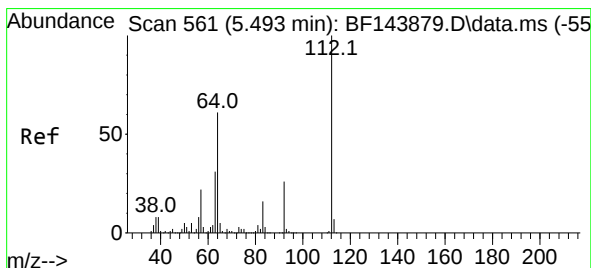
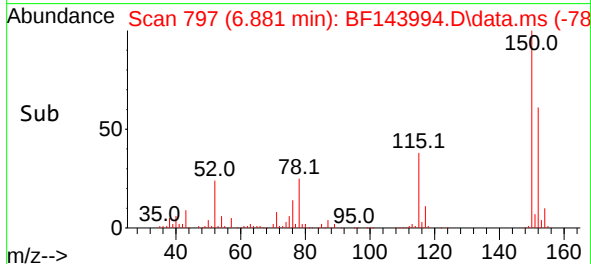
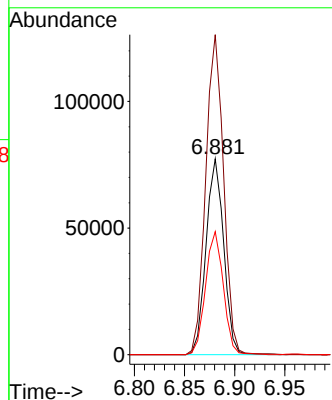
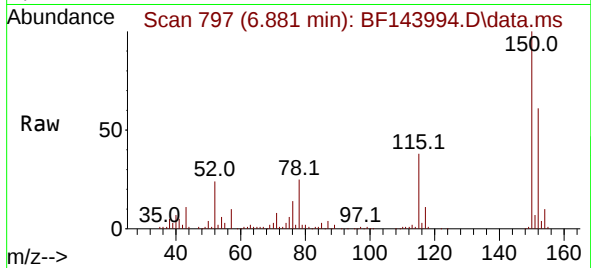




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.881 min Scan# 797
 Delta R.T. -0.005 min
 Lab File: BF143994.D
 Acq: 17 Oct 2025 19:41

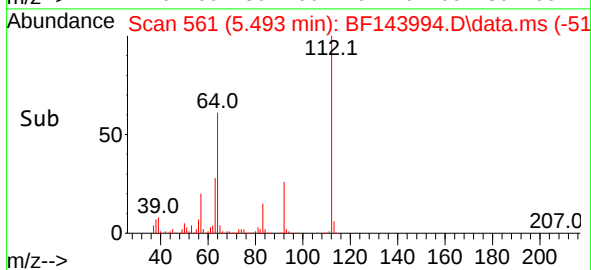
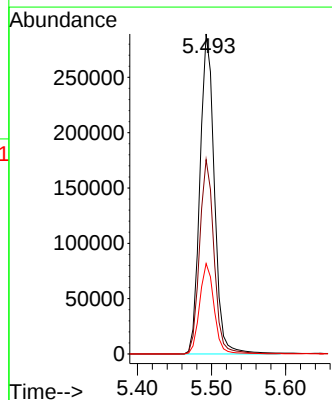
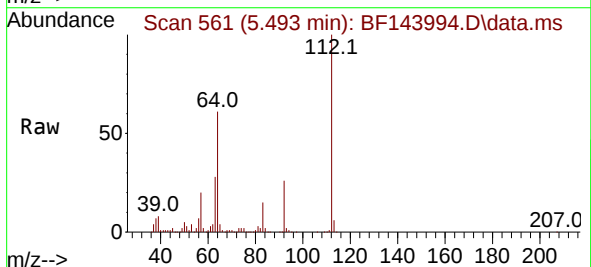
Instrument :
 BNA_F
 ClientSampleId :
 PR132-SO3-010013-20251015

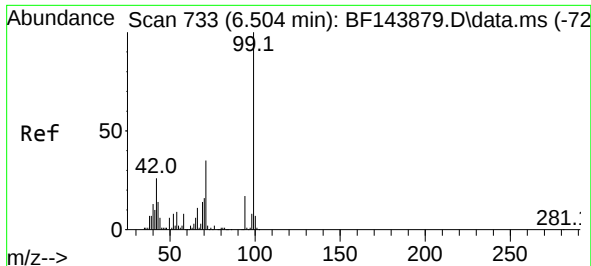
Tgt Ion:152 Resp: 95256
 Ion Ratio Lower Upper
 152 100
 150 163.4 124.4 186.6
 115 62.9 48.1 72.1



#5
 2-Fluorophenol
 Concen: 65.272 ng
 RT: 5.493 min Scan# 561
 Delta R.T. -0.006 min
 Lab File: BF143994.D
 Acq: 17 Oct 2025 19:41

Tgt Ion:112 Resp: 391537
 Ion Ratio Lower Upper
 112 100
 64 60.8 49.1 73.7
 63 28.3 24.5 36.7

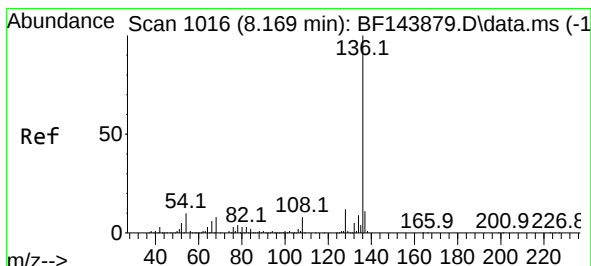
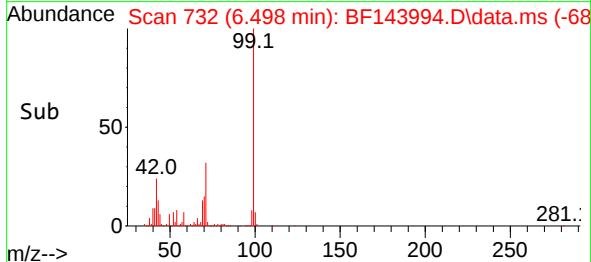
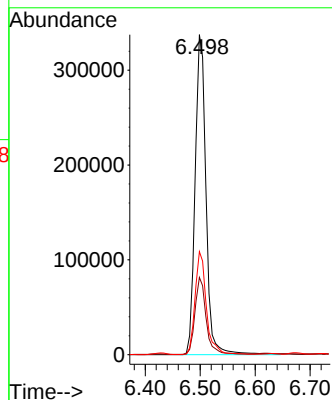
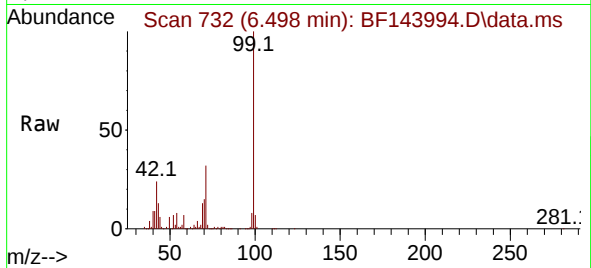




#7
Phenol-d6
Concen: 64.876 ng
RT: 6.498 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF143994.D
Acq: 17 Oct 2025 19:41

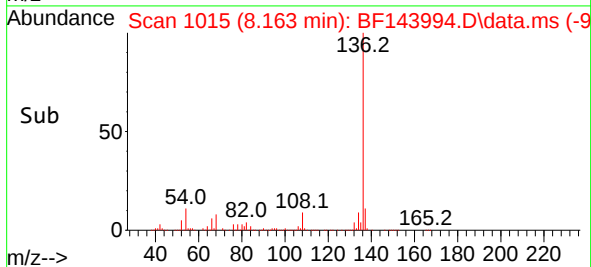
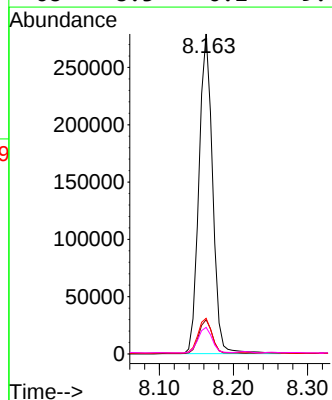
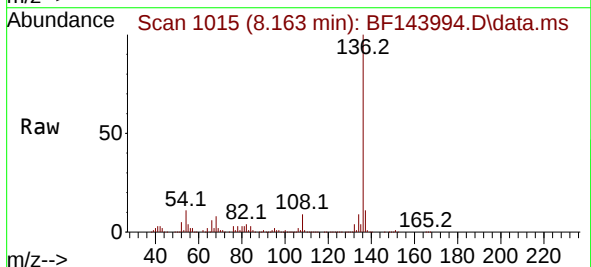
Instrument :
BNA_F
ClientSampleId :
PR132-SO3-010013-20251015

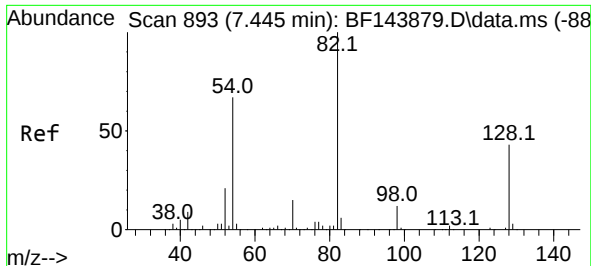
Tgt Ion:	99	Resp:	463866
Ion	Ratio	Lower	Upper
99	100		
42	24.2	21.0	31.4
71	32.2	27.8	41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143994.D
Acq: 17 Oct 2025 19:41

Tgt Ion:	136	Resp:	358249
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.5	12.7
54	11.2	8.2	12.4
68	8.3	6.2	9.4





#23

Nitrobenzene-d5

Concen: 39.332 ng

RT: 7.439 min Scan# 84

Delta R.T. -0.018 min

Lab File: BF143994.D

Acq: 17 Oct 2025 19:41

Instrument :

BNA_F

ClientSampleId :

PR132-SO3-010013-20251015

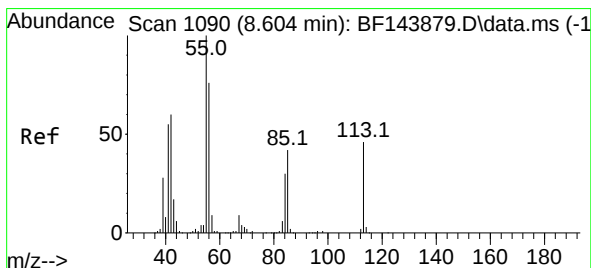
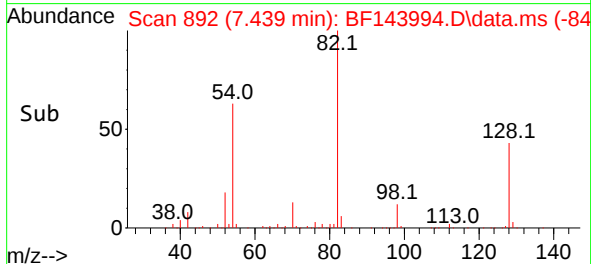
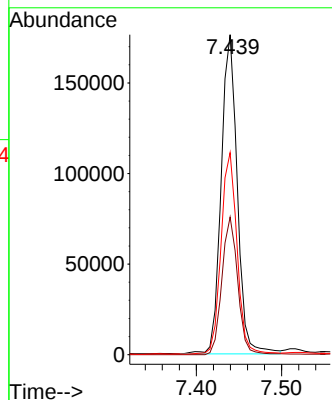
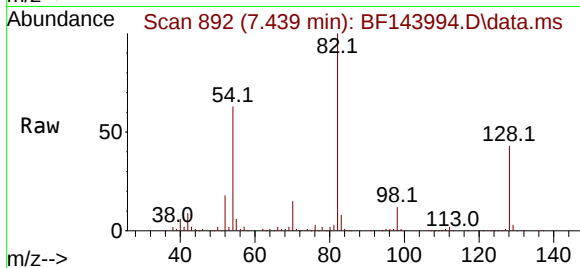
Tgt Ion: 82 Resp: 231928

Ion Ratio Lower Upper

82 100

128 43.0 34.0 51.0

54 63.2 53.2 79.8



#35

Caprolactam

Concen: 3.646 ng

RT: 8.581 min Scan# 1086

Delta R.T. -0.065 min

Lab File: BF143994.D

Acq: 17 Oct 2025 19:41

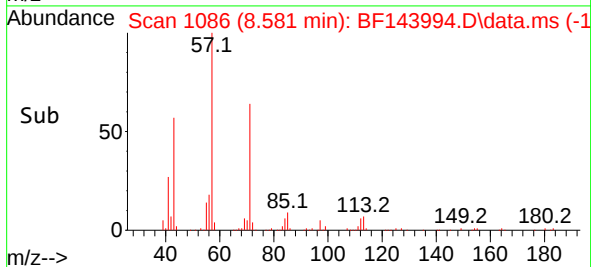
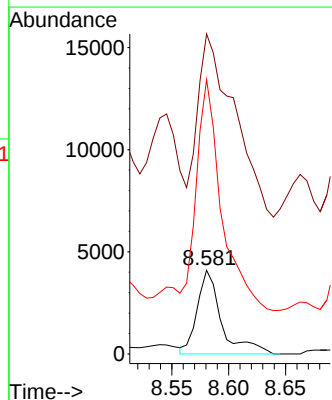
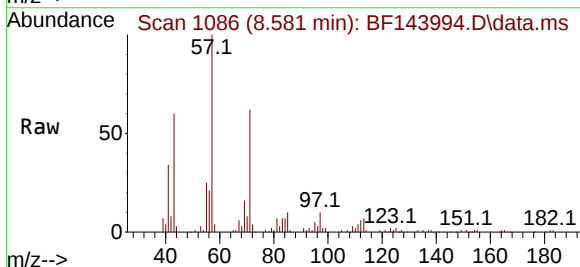
Tgt Ion: 113 Resp: 6099

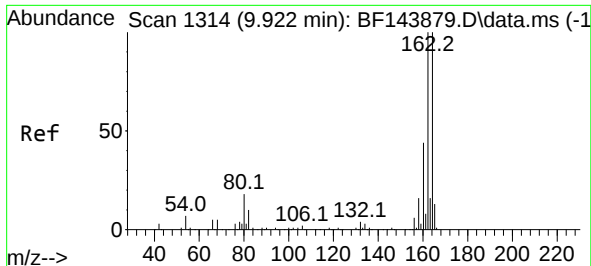
Ion Ratio Lower Upper

113 100

55 382.1 199.6 239.6#

56 327.6 146.0 186.0#

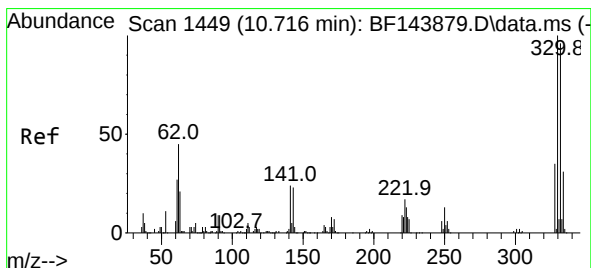
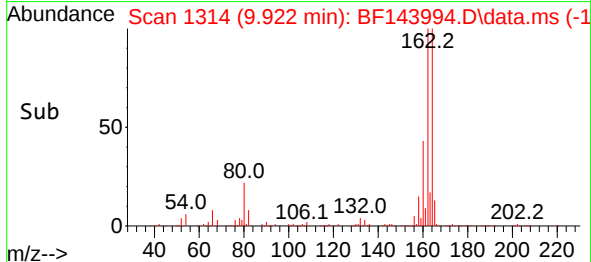
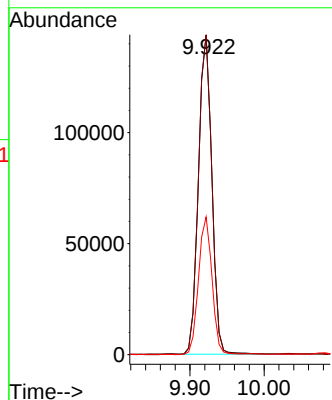
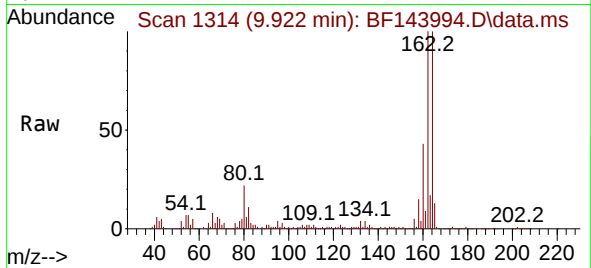




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF143994.D
Acq: 17 Oct 2025 19:41

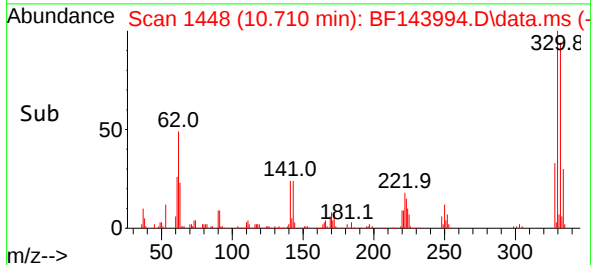
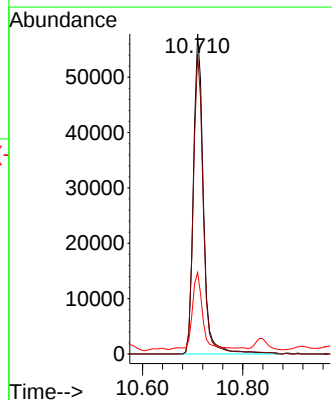
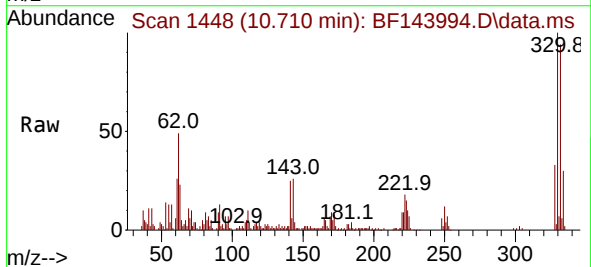
Instrument :
BNA_F
ClientSampleId :
PR132-SO3-010013-20251015

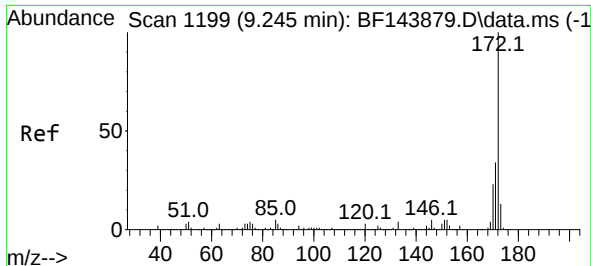
Tgt Ion:164 Resp: 180230
Ion Ratio Lower Upper
164 100
162 100.2 80.2 120.2
160 43.1 35.4 53.0



#42
2,4,6-Tribromophenol
Concen: 44.407 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.012 min
Lab File: BF143994.D
Acq: 17 Oct 2025 19:41

Tgt Ion:330 Resp: 79717
Ion Ratio Lower Upper
330 100
332 94.2 76.9 115.3
141 24.9 20.2 30.4





#45

2-Fluorobiphenyl

Concen: 34.997 ng

RT: 9.239 min Scan# 1199

Delta R.T. -0.012 min

Lab File: BF143994.D

Acq: 17 Oct 2025 19:41

Instrument :

BNA_F

ClientSampleId :

PR132-SO3-010013-20251015

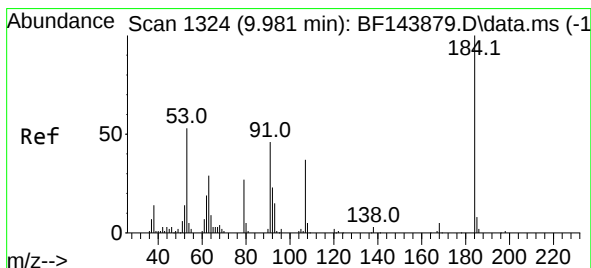
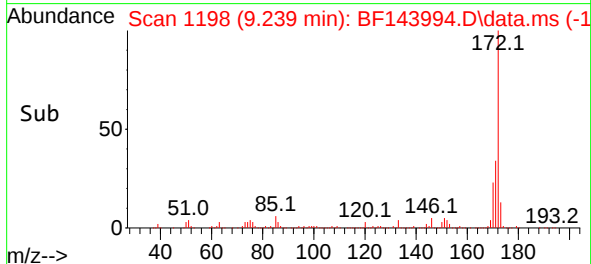
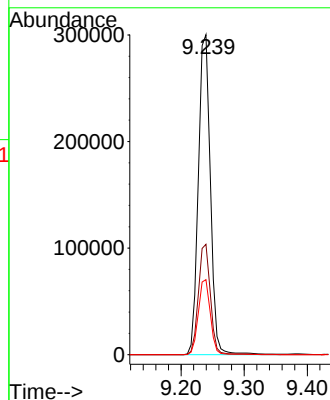
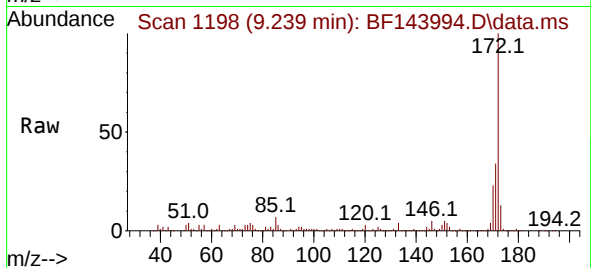
Tgt Ion:172 Resp: 397515

Ion Ratio Lower Upper

172 100

171 34.5 27.4 41.0

170 23.4 18.6 28.0



#54

2,4-Dinitrophenol

Concen: 7.546 ng

RT: 10.204 min Scan# 1362

Delta R.T. 0.218 min

Lab File: BF143994.D

Acq: 17 Oct 2025 19:41

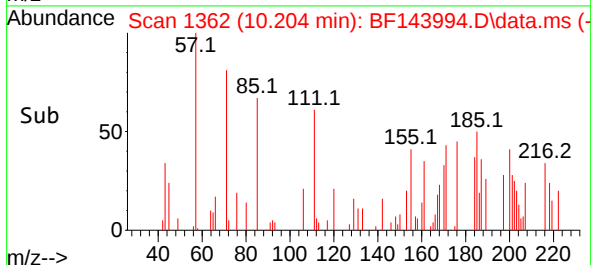
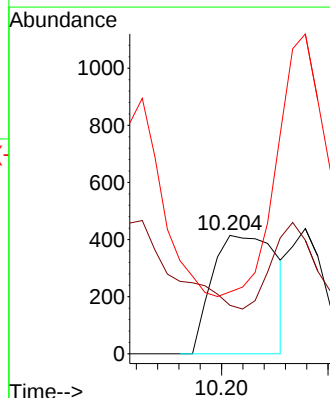
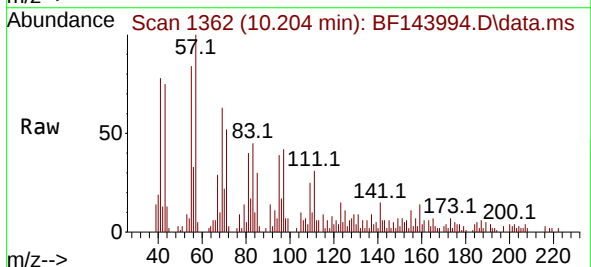
Tgt Ion:184 Resp: 868

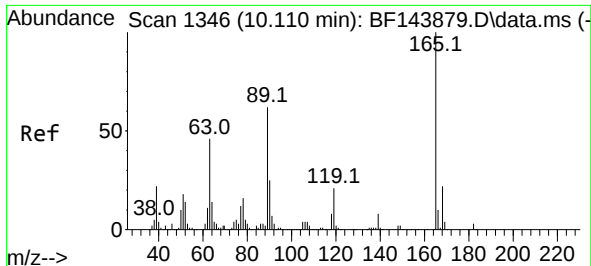
Ion Ratio Lower Upper

184 100

63 41.0 48.2 72.4#

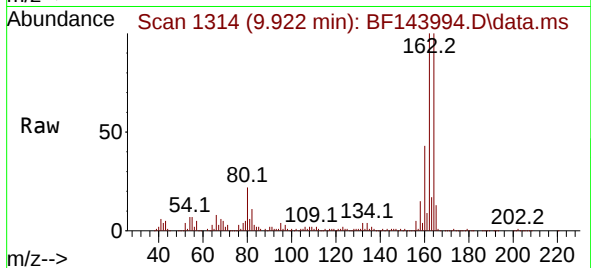
154 52.3 49.2 73.8



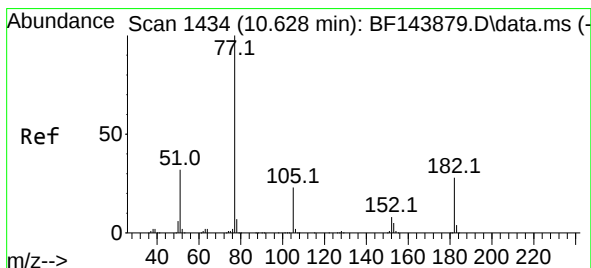
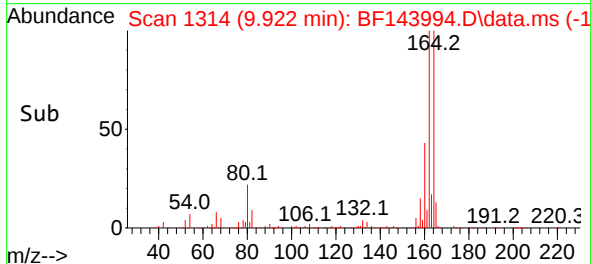
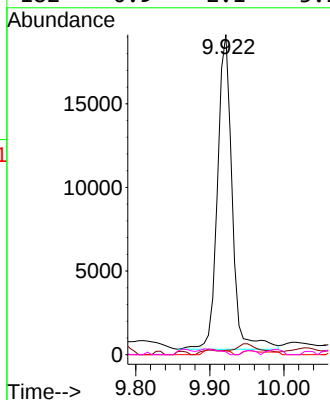


#57
2,4-Dinitrotoluene
Concen: 8.938 ng
RT: 9.922 min Scan# 11
Delta R.T. -0.194 min
Lab File: BF143994.D
Acq: 17 Oct 2025 19:41

Instrument :
BNA_F
ClientSampleId :
PR132-SO3-010013-20251015

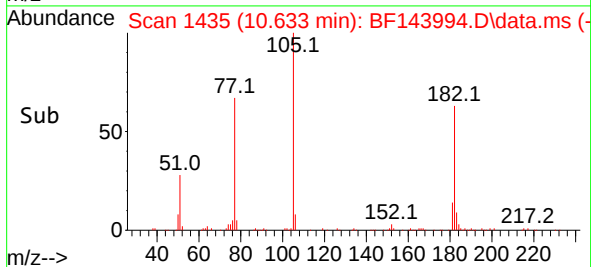
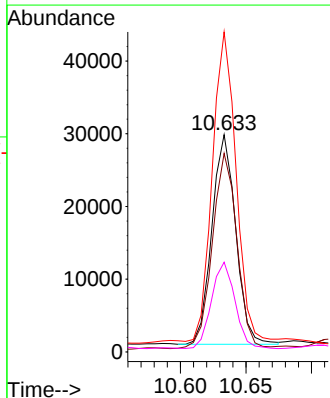
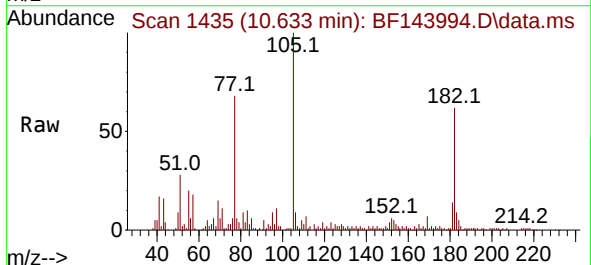


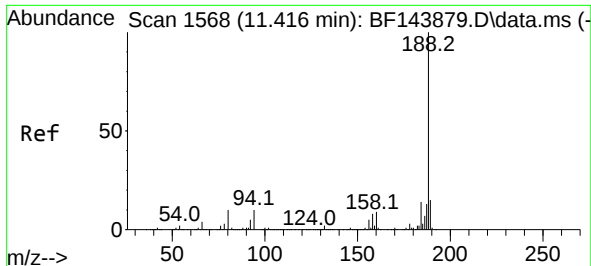
Tgt Ion:165 Resp: 25811
Ion Ratio Lower Upper
165 100
63 1.4 37.2 55.8#
89 1.2 49.4 74.2#
182 0.9 2.1 3.1#



#63
Azobenzene
Concen: 3.276 ng
RT: 10.633 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BF143994.D
Acq: 17 Oct 2025 19:41

Tgt Ion: 77 Resp: 36403
Ion Ratio Lower Upper
77 100
182 91.4 7.3 47.3#
105 147.3 3.0 43.0#
51 41.3 13.5 53.5

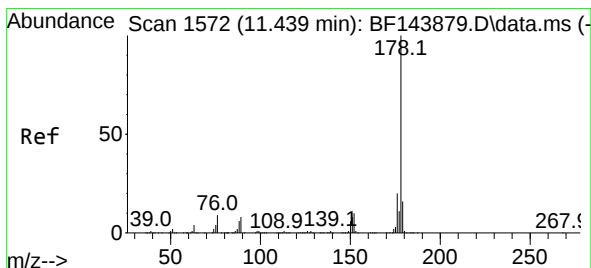
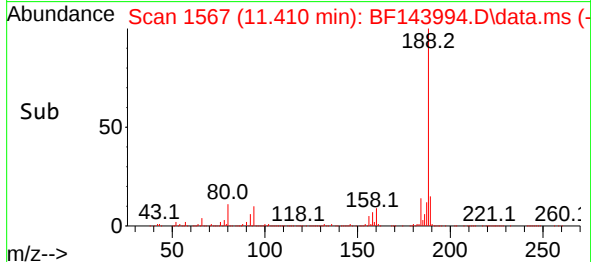
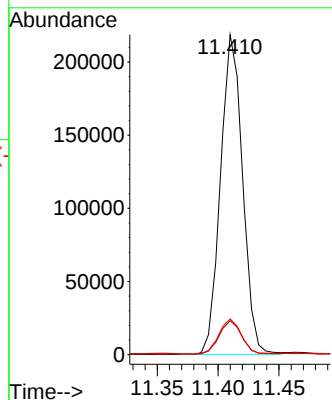
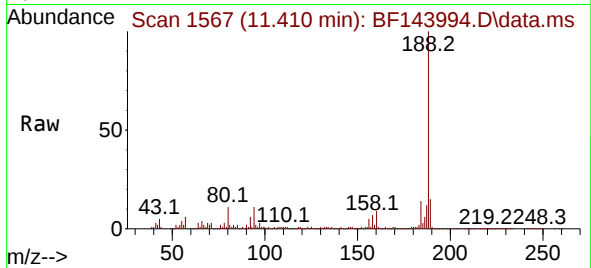




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143994.D
Acq: 17 Oct 2025 19:41

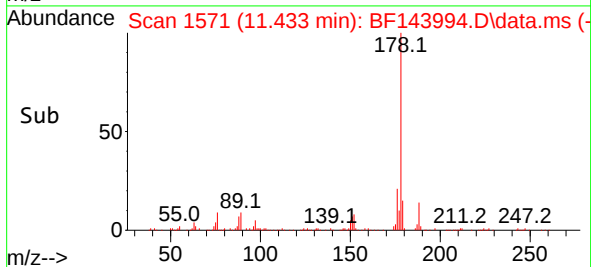
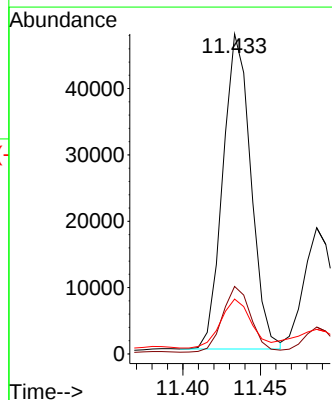
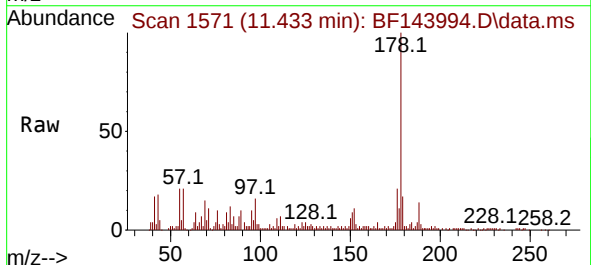
Instrument :
BNA_F
ClientSampleId :
PR132-SO3-010013-20251015

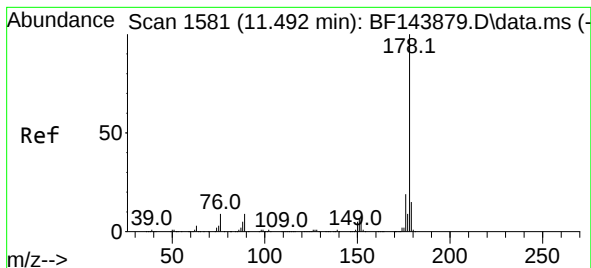
Tgt Ion:188 Resp: 275607
Ion Ratio Lower Upper
188 100
94 10.7 7.8 11.6
80 11.2 7.9 11.9



#71
Phenanthrene
Concen: 4.469 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BF143994.D
Acq: 17 Oct 2025 19:41

Tgt Ion:178 Resp: 59711
Ion Ratio Lower Upper
178 100
176 21.1 15.9 23.9
179 17.2 12.4 18.6





#72

Anthracene

Concen: 4.424 ng

RT: 11.433 min Scan# 1571

Delta R.T. -0.065 min

Lab File: BF143994.D

Acq: 17 Oct 2025 19:41

Instrument :

BNA_F

ClientSampleId :

PR132-SO3-010013-20251015

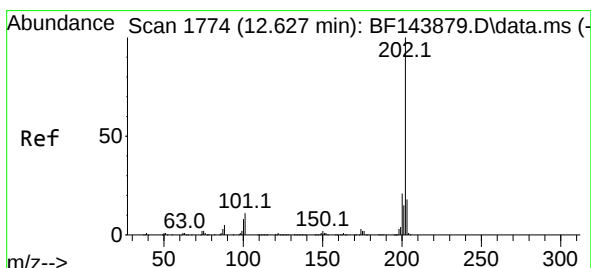
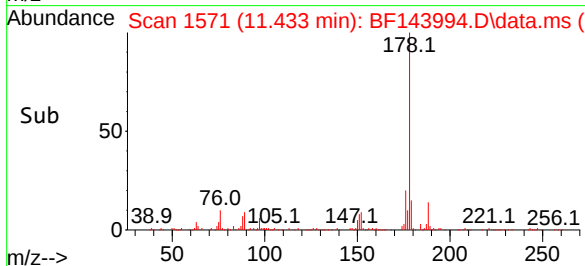
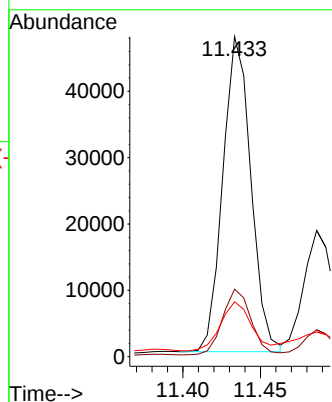
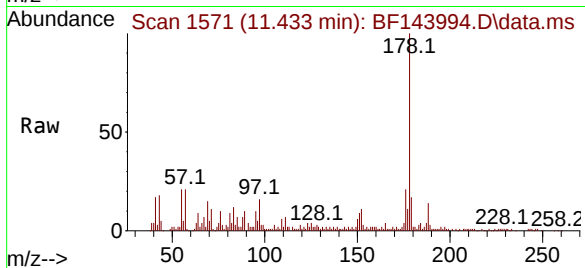
Tgt Ion:178 Resp: 59711

Ion Ratio Lower Upper

178 100

176 21.1 14.9 22.3

179 17.2 12.2 18.2



#75

Fluoranthene

Concen: 5.717 ng

RT: 12.627 min Scan# 1774

Delta R.T. -0.006 min

Lab File: BF143994.D

Acq: 17 Oct 2025 19:41

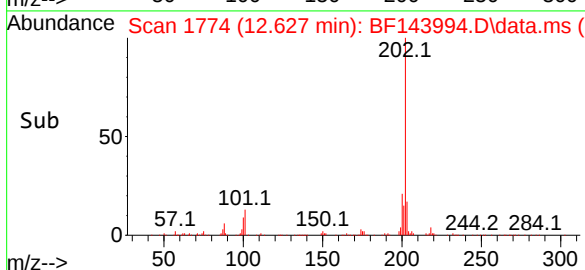
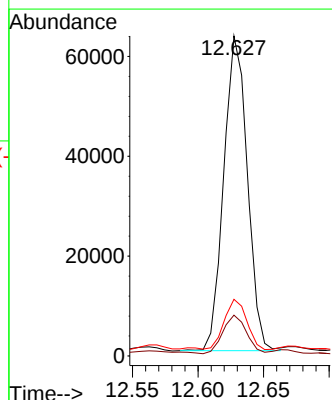
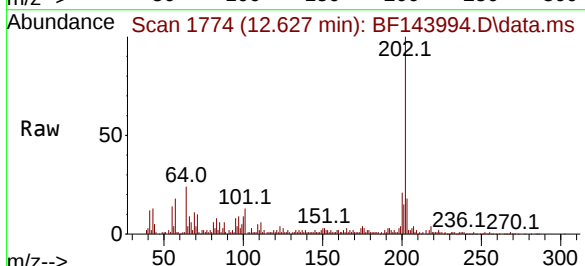
Tgt Ion:202 Resp: 78903

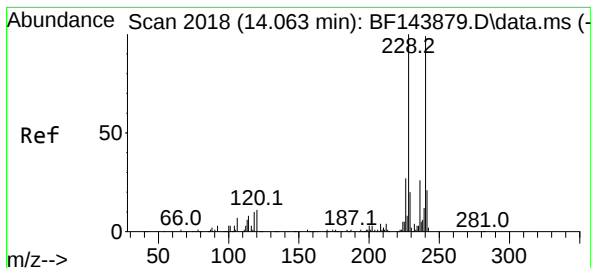
Ion Ratio Lower Upper

202 100

101 12.7 0.0 30.7

203 17.7 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 20

Delta R.T. -0.011 min

Lab File: BF143994.D

Acq: 17 Oct 2025 19:41

Instrument :

BNA_F

ClientSampleId :

PR132-SO3-010013-20251015

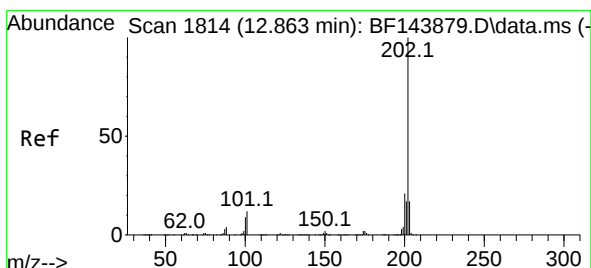
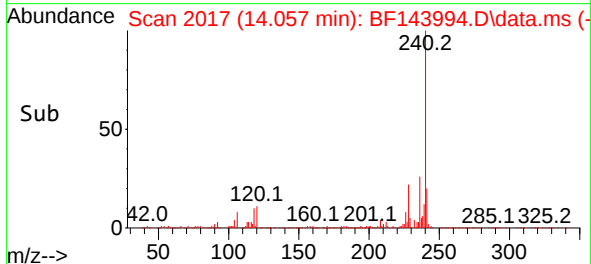
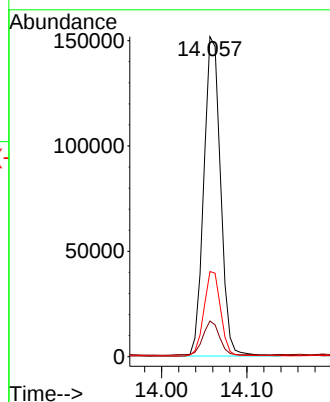
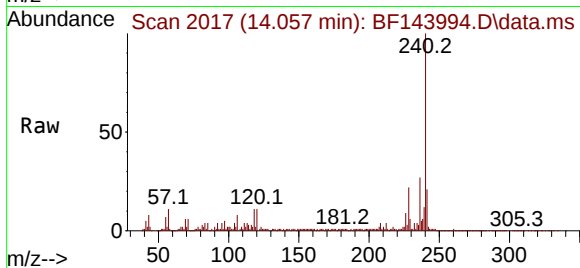
Tgt Ion:240 Resp: 207243

Ion Ratio Lower Upper

240 100

120 11.2 8.6 13.0

236 26.6 21.1 31.7



#78

Pyrene

Concen: 5.395 ng

RT: 12.857 min Scan# 1813

Delta R.T. -0.006 min

Lab File: BF143994.D

Acq: 17 Oct 2025 19:41

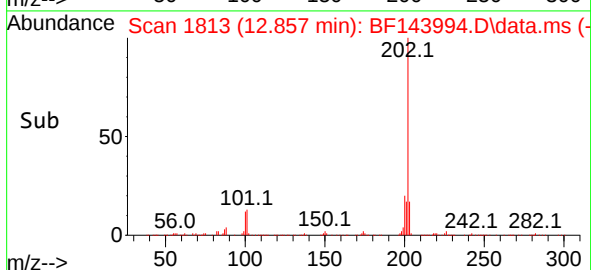
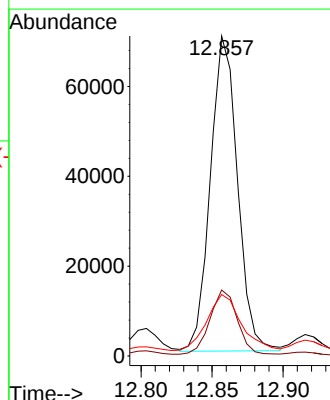
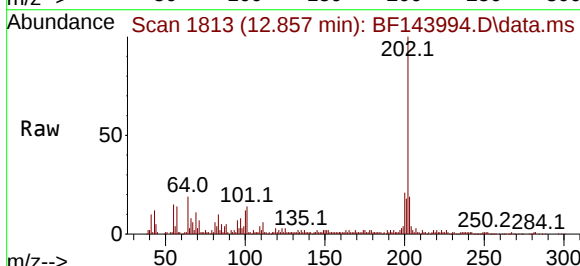
Tgt Ion:202 Resp: 93212

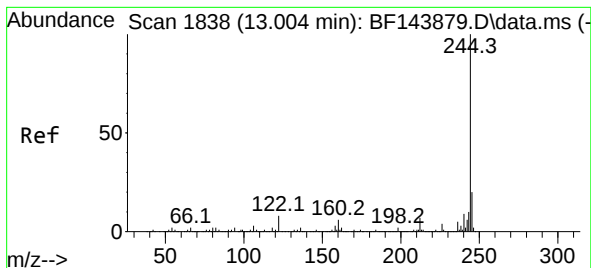
Ion Ratio Lower Upper

202 100

200 20.6 17.0 25.6

203 19.2 13.8 20.6





#79

Terphenyl-d14

Concen: 27.481 ng

RT: 12.998 min Scan# 1837

Delta R.T. -0.012 min

Lab File: BF143994.D

Acq: 17 Oct 2025 19:41

Instrument :

BNA_F

ClientSampleId :

PR132-SO3-010013-20251015

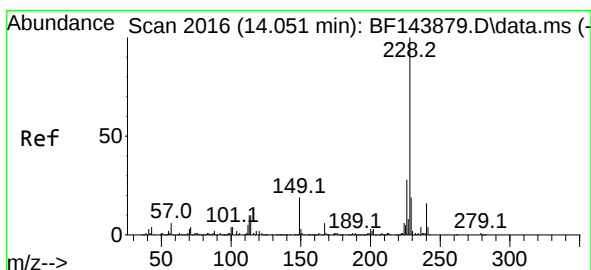
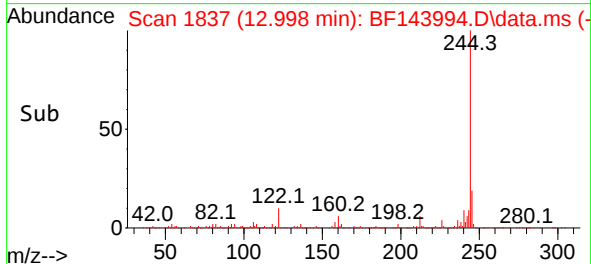
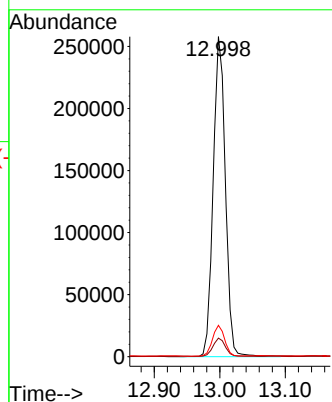
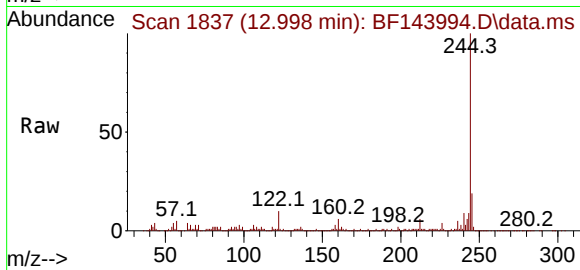
Tgt Ion:244 Resp: 333237

Ion Ratio Lower Upper

244 100

212 5.8 5.4 8.0

122 9.8 6.4 9.6#



#81

Benzo(a)anthracene

Concen: 5.272 ng

RT: 14.051 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF143994.D

Acq: 17 Oct 2025 19:41

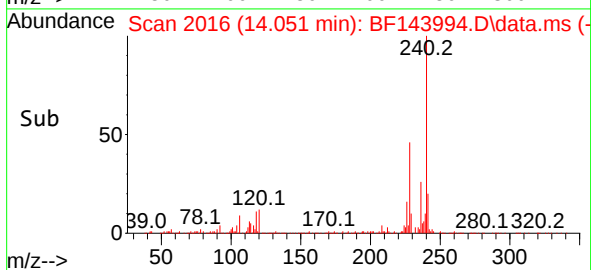
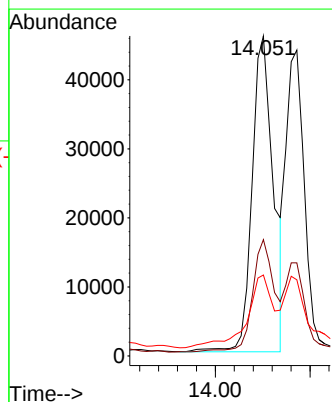
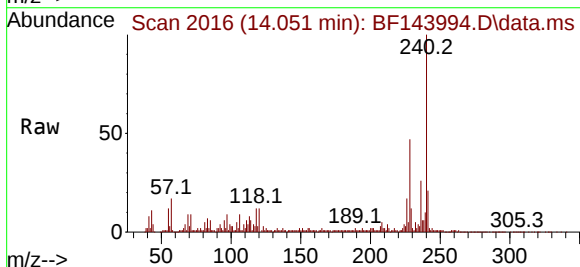
Tgt Ion:228 Resp: 71493

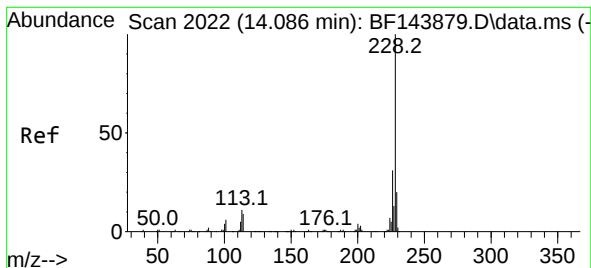
Ion Ratio Lower Upper

228 100

226 36.4 22.2 33.2#

229 25.3 15.6 23.4#





#83

Chrysene

Concen: 4.677 ng

RT: 14.086 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF143994.D

Acq: 17 Oct 2025 19:41

Instrument :

BNA_F

ClientSampleId :

PR132-SO3-010013-20251015

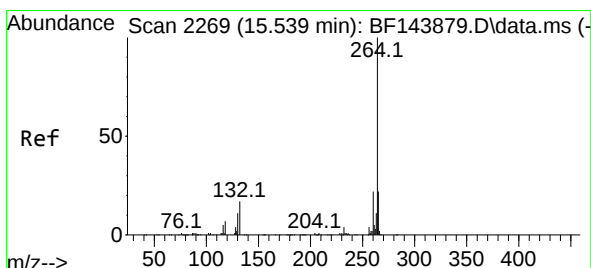
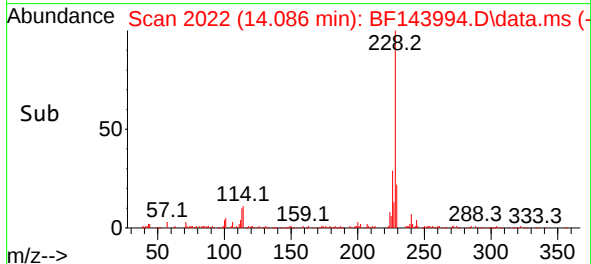
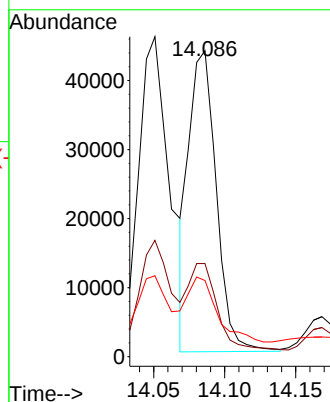
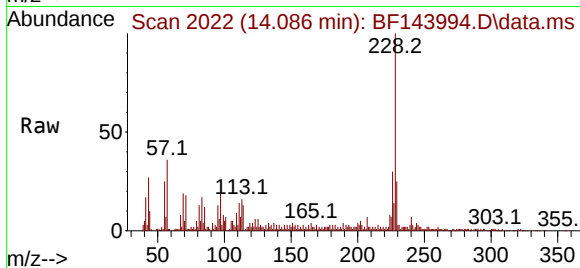
Tgt Ion:228 Resp: 58705

Ion Ratio Lower Upper

228 100

226 30.4 24.4 36.6

229 24.9 15.9 23.9#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 2270

Delta R.T. 0.000 min

Lab File: BF143994.D

Acq: 17 Oct 2025 19:41

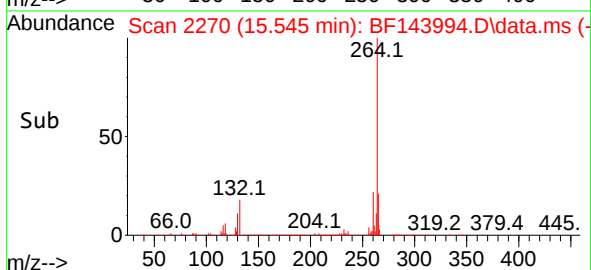
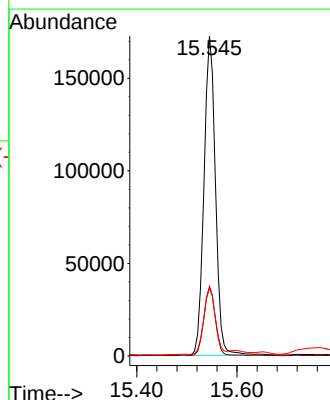
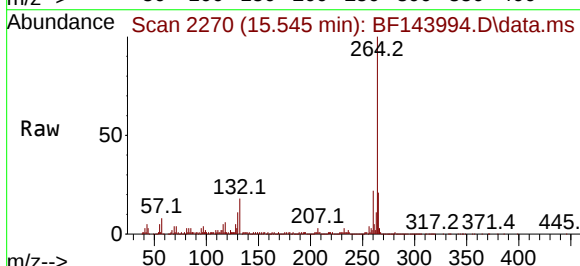
Tgt Ion:264 Resp: 275767

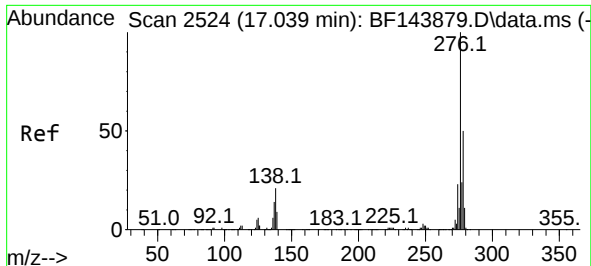
Ion Ratio Lower Upper

264 100

260 21.7 17.8 26.8

265 21.2 17.5 26.3

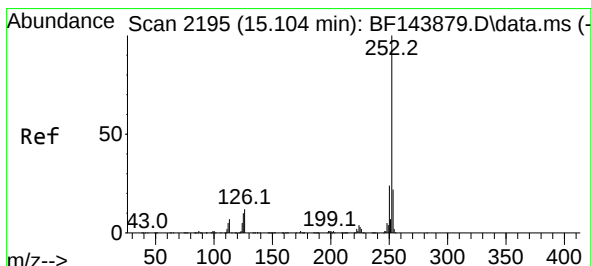
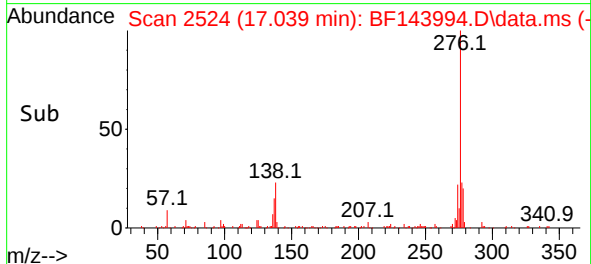
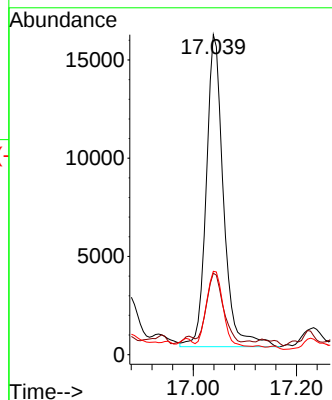
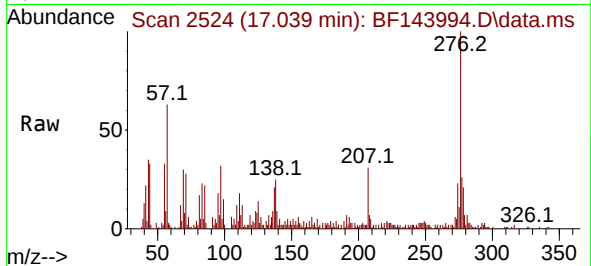




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 2.178 ng
 RT: 17.039 min Scan# 2196
 Delta R.T. -0.018 min
 Lab File: BF143994.D
 Acq: 17 Oct 2025 19:41

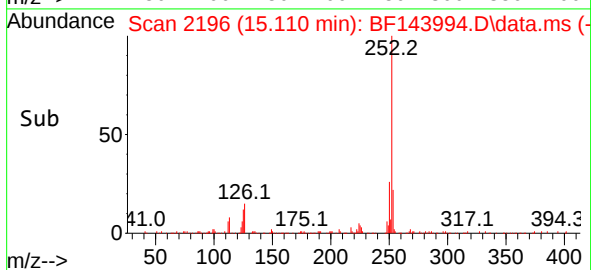
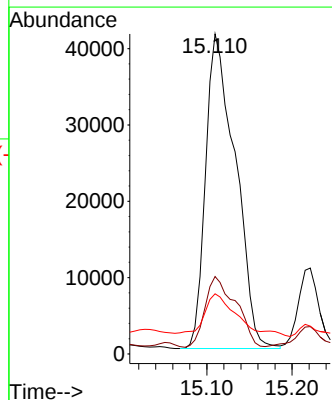
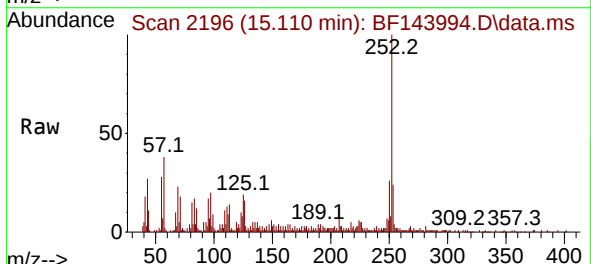
Instrument :
 BNA_F
 ClientSampleId :
 PR132-SO3-010013-20251015

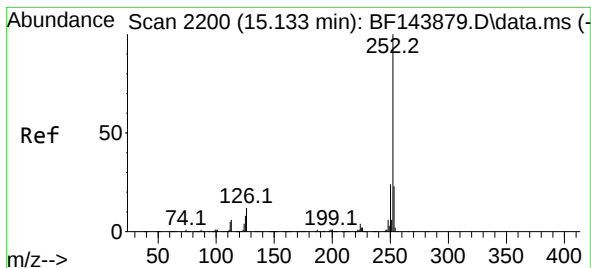
Tgt Ion:276 Resp: 36806
 Ion Ratio Lower Upper
 276 100
 138 21.3 18.2 27.2
 277 23.4 19.8 29.6



#88
 Benzo(b)fluoranthene
 Concen: 6.301 ng
 RT: 15.110 min Scan# 2196
 Delta R.T. -0.006 min
 Lab File: BF143994.D
 Acq: 17 Oct 2025 19:41

Tgt Ion:252 Resp: 99810
 Ion Ratio Lower Upper
 252 100
 253 24.2 17.4 26.2
 125 18.8 7.8 11.6#





#89

Benzo(k)fluoranthene

Concen: 6.809 ng

RT: 15.110 min Scan# 2196

Delta R.T. -0.035 min

Lab File: BF143994.D

Acq: 17 Oct 2025 19:41

Instrument :

BNA_F

ClientSampleId :

PR132-SO3-010013-20251015

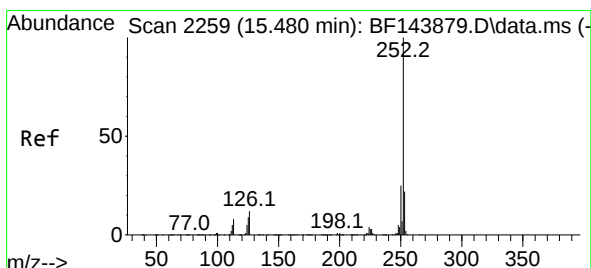
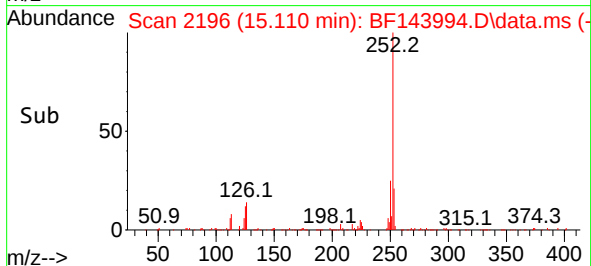
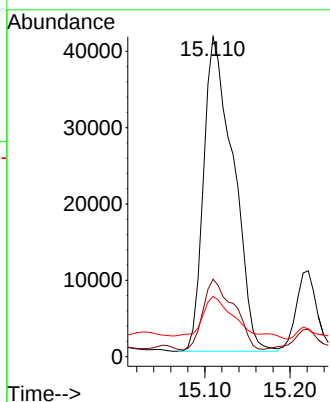
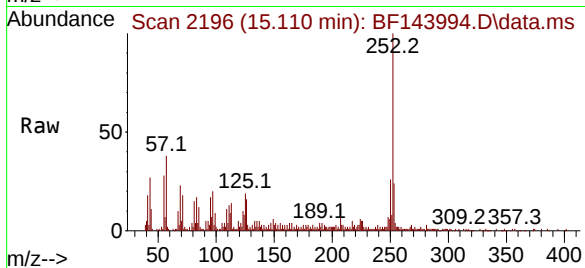
Tgt Ion:252 Resp: 99810

Ion Ratio Lower Upper

252 100

253 24.2 17.8 26.8

125 18.8 7.4 11.2#



#90

Benzo(a)pyrene

Concen: 5.032 ng

RT: 15.480 min Scan# 2259

Delta R.T. -0.006 min

Lab File: BF143994.D

Acq: 17 Oct 2025 19:41

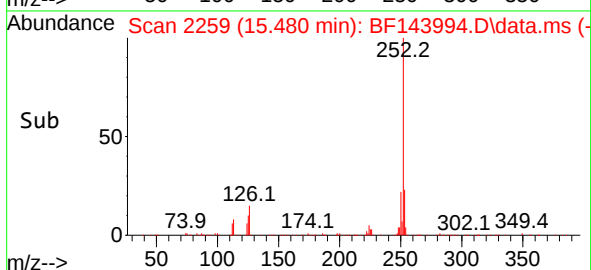
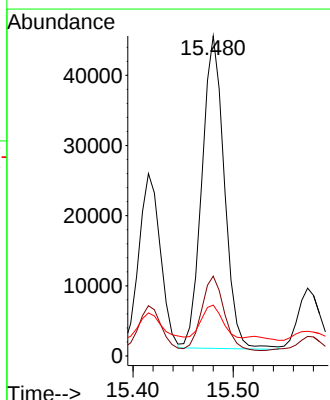
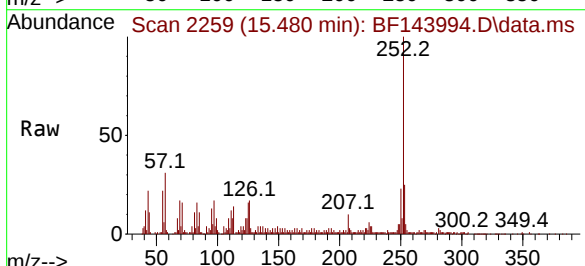
Tgt Ion:252 Resp: 69118

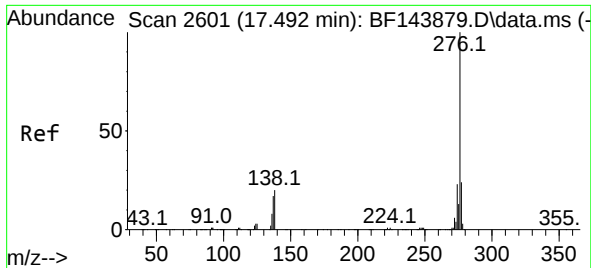
Ion Ratio Lower Upper

252 100

253 25.0 17.3 25.9

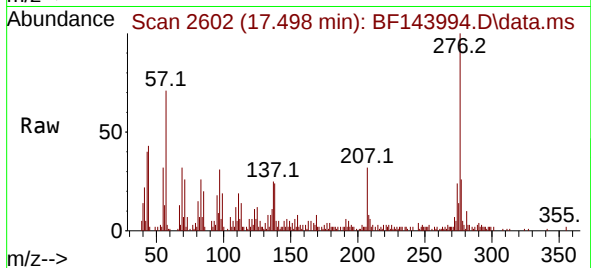
125 15.9 7.0 10.4#





#92
 Benzo(g,h,i)perylene
 Concen: 2.600 ng
 RT: 17.498 min Scan# 20
 Delta R.T. -0.018 min
 Lab File: BF143994.D
 Acq: 17 Oct 2025 19:41

Instrument :
 BNA_F
 ClientSampleId :
 PR132-SO3-010013-20251015



Tgt Ion:	276	Resp:	35340
Ion Ratio	Lower	Upper	
276	100		
277	25.5	19.0	28.6
138	23.6	16.1	24.1

