

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080625\
 Data File : BF143333.D
 Acq On : 06 Aug 2025 16:43
 Operator : RC/JU
 Sample : Q2774-05
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R5

Quant Time: Aug 06 17:04:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 17 15:14:05 2025
 Response via : Initial Calibration

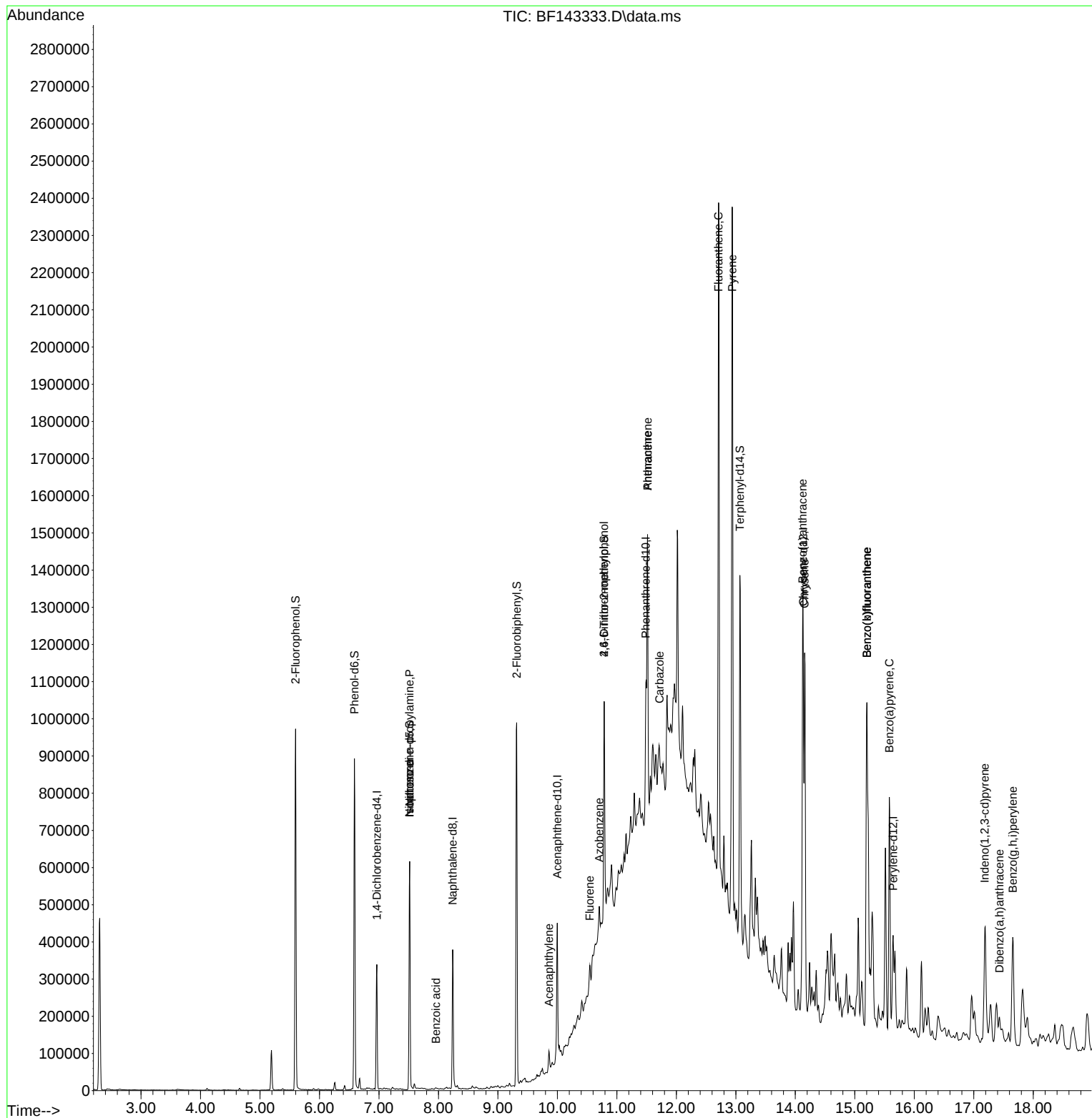
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	68653	20.000	ng	0.00
21) Naphthalene-d8	8.240	136	236177	20.000	ng	0.00
39) Acenaphthene-d10	9.998	164	105443	20.000	ng	0.00
64) Phenanthrene-d10	11.486	188	173518	20.000	ng	# 0.00
76) Chrysene-d12	14.133	240	182814	20.000	ng	0.01
86) Perylene-d12	15.645	264	142597	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.599	112	344743	79.464	ng	0.01
7) Phenol-d6	6.587	99	396719	72.651	ng	0.00
23) Nitrobenzene-d5	7.516	82	261243	55.137	ng	0.00
42) 2,4,6-Tribromophenol	10.786	330	107401	98.598	ng	0.00
45) 2-Fluorobiphenyl	9.316	172	446490	57.911	ng	0.00
79) Terphenyl-d14	13.069	244	477444	38.864	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propyla...	7.516	70	35736	10.200	ng	# 78
25) Isophorone	7.516	82	257804	30.822	ng	# 66
32) Benzoic acid	7.957	122	774	5.492	ng	# 83
49) Acenaphthylene	9.857	152	30894	3.029	ng	97
58) Fluorene	10.545	166	16750	2.493	ng	# 88
63) Azobenzene	10.704	77	15397	2.175	ng	# 1
65) 4,6-Dinitro-2-methylph...	10.786	198	234	5.641	ng	# 1
71) Phenanthrene	11.516	178	370334	40.196	ng	99
72) Anthracene	11.516	178	370334	39.412	ng	99
73) Carbazole	11.716	167	45801	5.582	ng	# 86
75) Fluoranthene	12.710	202	1120071	132.450	ng	99
78) Pyrene	12.939	202	1151632	73.812	ng	98
81) Benzo(a)anthracene	14.122	228	506172	41.356	ng	96
83) Chrysene	14.157	228	535113	48.627	ng	98
87) Indeno(1,2,3-cd)pyrene	17.186	276	230605	22.934	ng	95
88) Benzo(b)fluoranthene	15.204	252	865201	99.318	ng	99
89) Benzo(k)fluoranthene	15.204	252	865201	111.300	ng	99
90) Benzo(a)pyrene	15.580	252	393531	49.031	ng	98
91) Dibenzo(a,h)anthracene	17.433	278	25854	3.159	ng	96
92) Benzo(g,h,i)perylene	17.657	276	255690	32.297	ng	100

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

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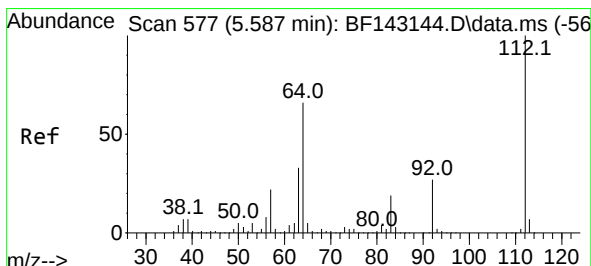
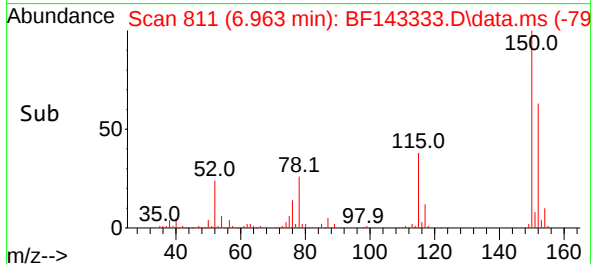
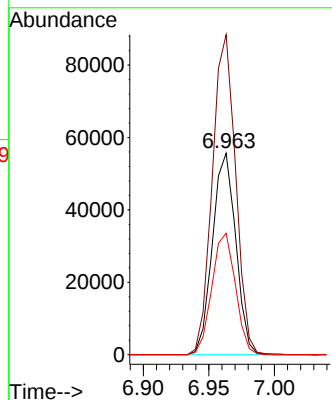
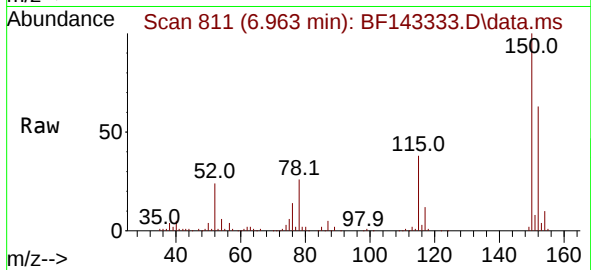




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 811
Delta R.T. 0.000 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

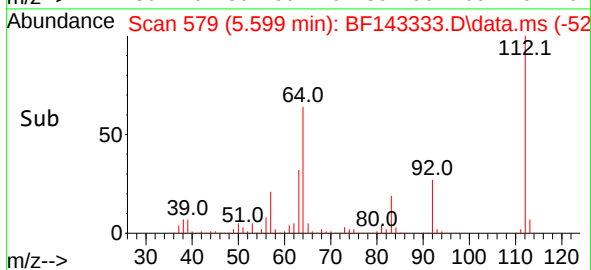
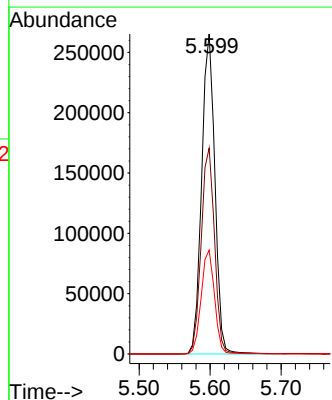
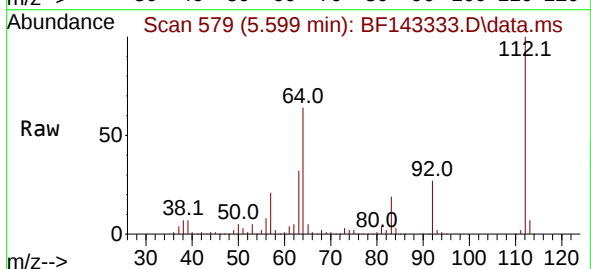
Instrument :
BNA_F
ClientSampleId :
R5

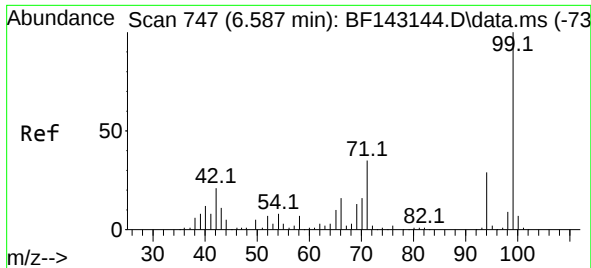
Tgt Ion:152 Resp: 68653
Ion Ratio Lower Upper
152 100
150 158.8 128.2 192.4
115 60.3 47.9 71.9



#5
2-Fluorophenol
Concen: 79.464 ng
RT: 5.599 min Scan# 579
Delta R.T. 0.012 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

Tgt Ion:112 Resp: 344743
Ion Ratio Lower Upper
112 100
64 64.4 53.1 79.7
63 32.5 26.6 40.0

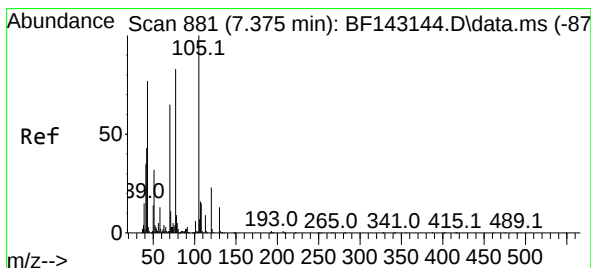
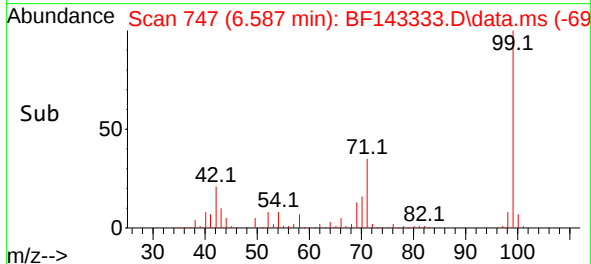
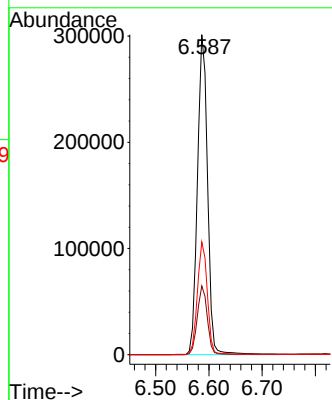
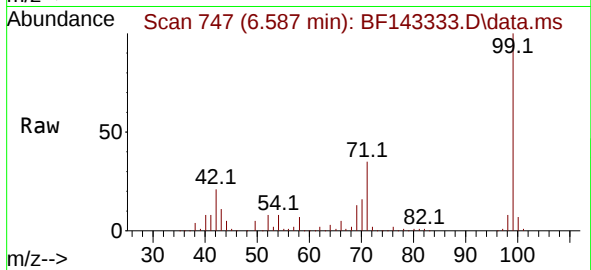




#7
Phenol-d6
Concen: 72.651 ng
RT: 6.587 min Scan# 74
Delta R.T. 0.000 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

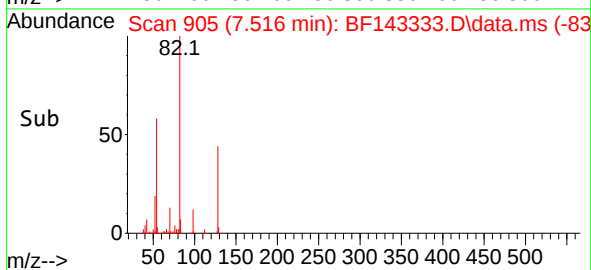
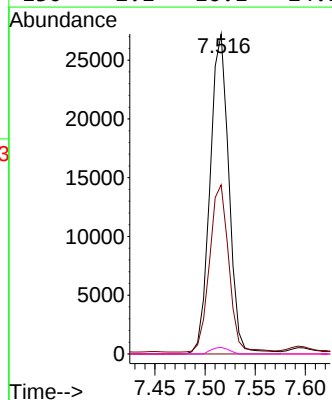
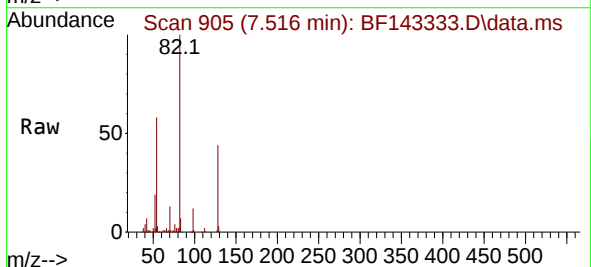
Instrument :
BNA_F
ClientSampleId :
R5

Tgt Ion: 99 Resp: 396719
Ion Ratio Lower Upper
99 100
42 21.5 17.0 25.6
71 35.2 27.7 41.5



#19
n-Nitroso-di-n-propylamine
Concen: 10.200 ng
RT: 7.516 min Scan# 905
Delta R.T. 0.141 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

Tgt Ion: 70 Resp: 35736
Ion Ratio Lower Upper
70 100
42 52.8 52.5 78.7
101 0.0 7.6 11.4#
130 2.1 16.1 24.1#

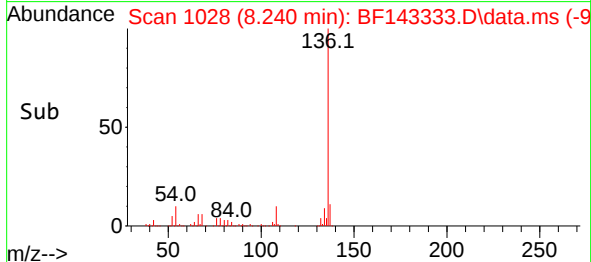
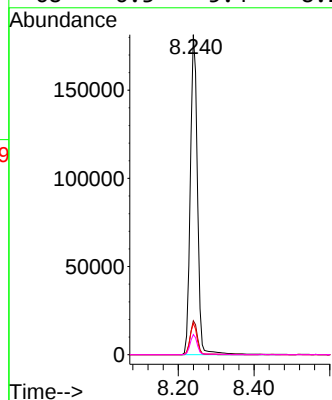
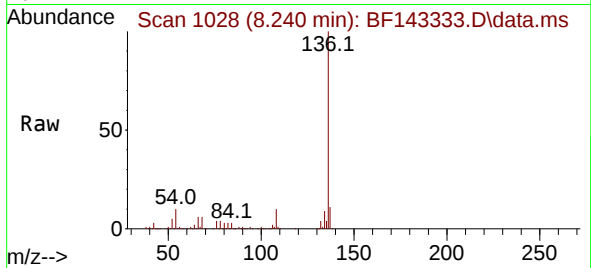




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.240 min Scan# 1029
Delta R.T. -0.005 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

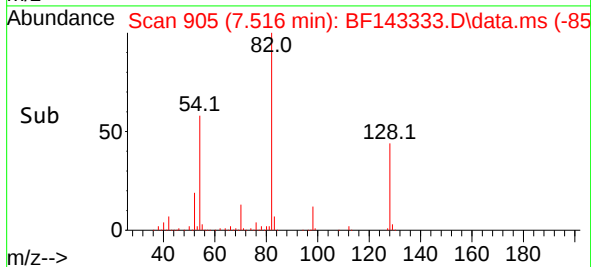
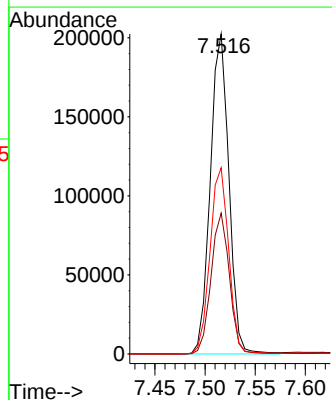
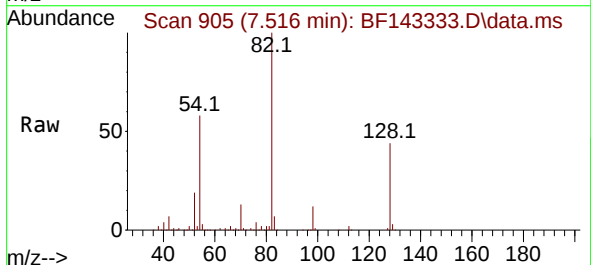
Instrument :
BNA_F
ClientSampleId :
R5

Tgt Ion	136	Resp: Lower	236177 Upper
136	100		
137	10.6	8.6	13.0
54	9.8	8.2	12.2
68	6.3	5.4	8.2



#23
Nitrobenzene-d5
Concen: 55.137 ng
RT: 7.516 min Scan# 905
Delta R.T. -0.006 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

Tgt Ion: 82	Resp: 261243
Ion Ratio	Lower Upper
82 100	
128 44.0	33.6 50.4
54 58.2	47.1 70.7

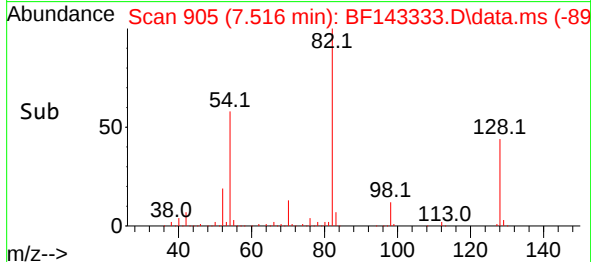
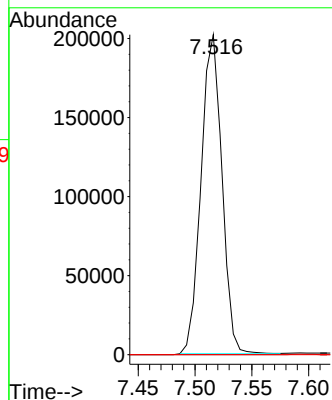
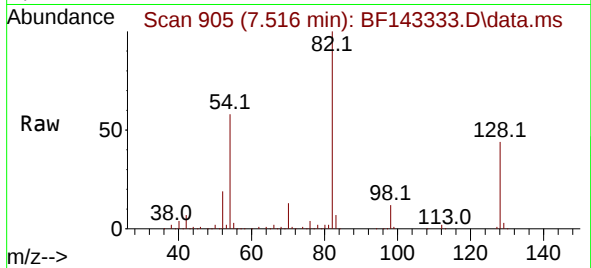




#25
Isophorone
Concen: 30.822 ng
RT: 7.516 min Scan# 90
Delta R.T. -0.265 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

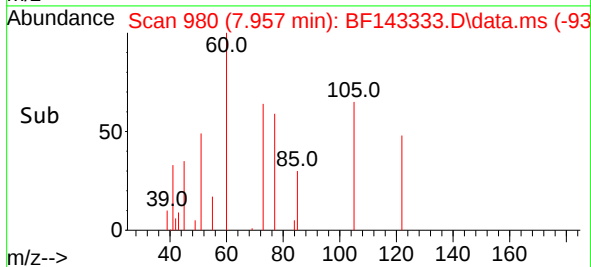
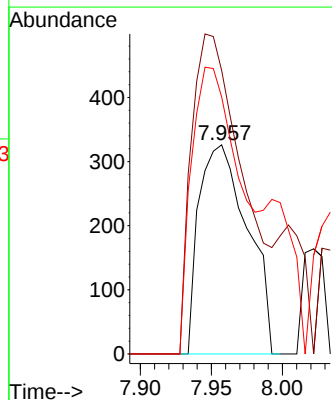
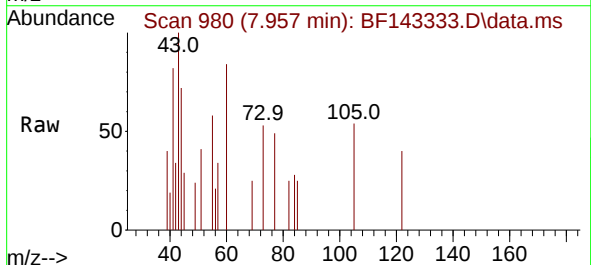
Instrument :
BNA_F
ClientSampleId :
R5

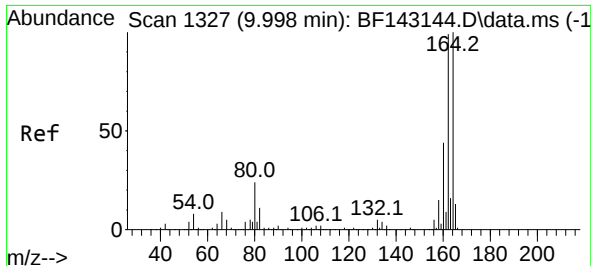
Tgt Ion: 82 Resp: 257804
Ion Ratio Lower Upper
82 100
95 0.0 5.5 8.3#
138 0.0 13.8 20.8#



#32
Benzoic acid
Concen: 5.492 ng
RT: 7.957 min Scan# 980
Delta R.T. -0.035 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

Tgt Ion: 122 Resp: 774
Ion Ratio Lower Upper
122 100
105 135.6 104.8 144.8
77 123.0 77.6 117.6#

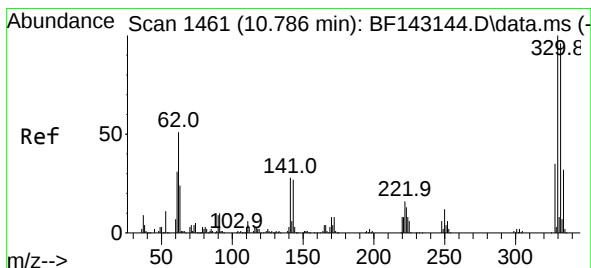
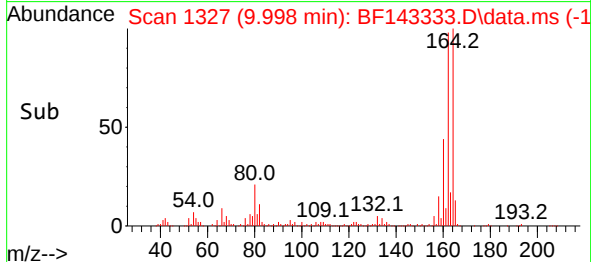
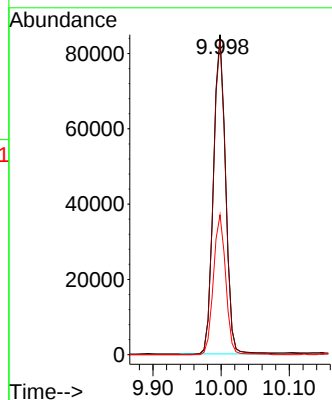
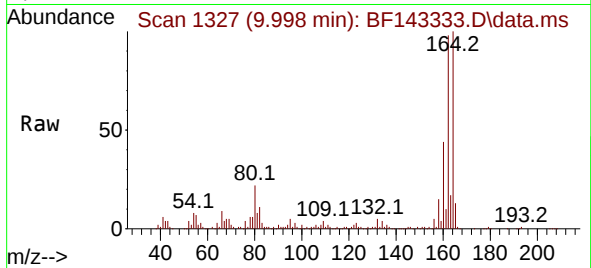




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

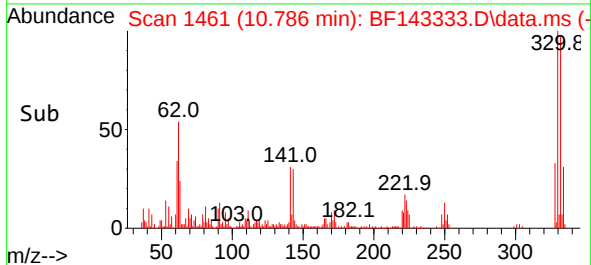
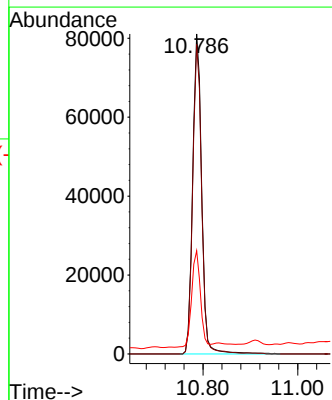
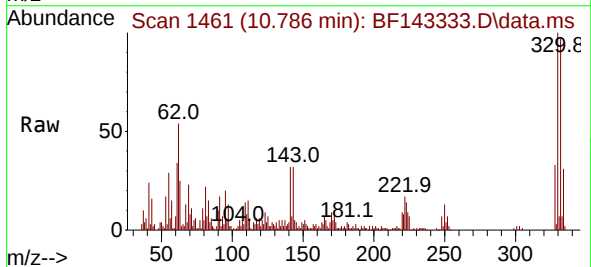
Instrument :
BNA_F
ClientSampleId :
R5

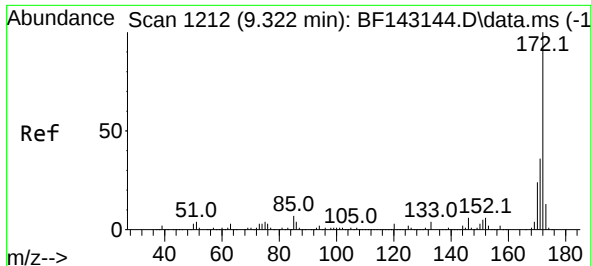
Tgt Ion:164 Resp: 105443
Ion Ratio Lower Upper
164 100
162 98.2 79.0 118.6
160 43.7 35.1 52.7



#42
2,4,6-Tribromophenol
Concen: 98.598 ng
RT: 10.786 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

Tgt Ion:330 Resp: 107401
Ion Ratio Lower Upper
330 100
332 95.5 76.7 115.1
141 29.1 23.3 34.9





#45

2-Fluorobiphenyl

Concen: 57.911 ng

RT: 9.316 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

Instrument :

BNA_F

ClientSampleId :

R5

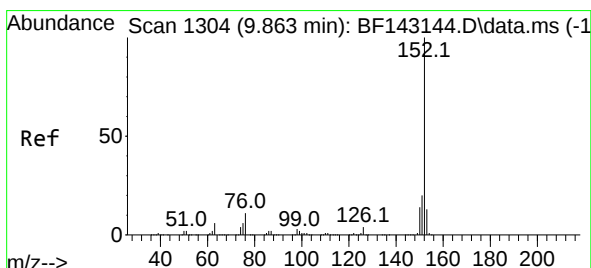
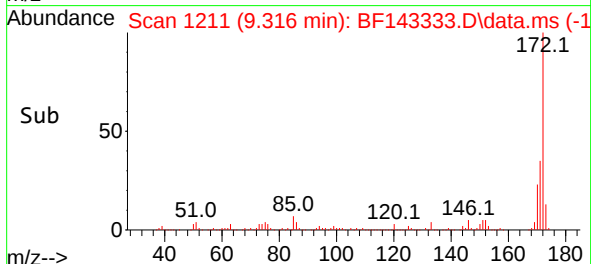
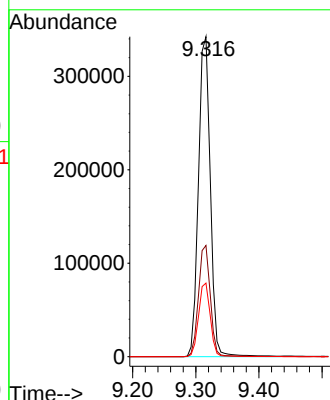
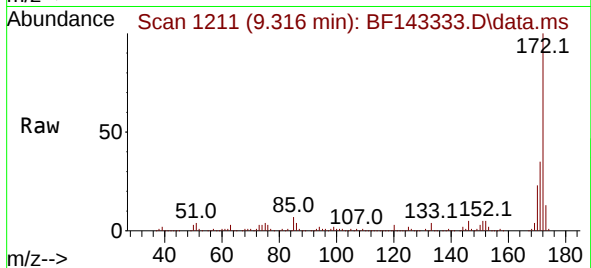
Tgt Ion:172 Resp: 446490

Ion Ratio Lower Upper

172 100

171 34.7 28.6 42.8

170 23.0 18.8 28.2



#49

Acenaphthylene

Concen: 3.029 ng

RT: 9.857 min Scan# 1303

Delta R.T. -0.006 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

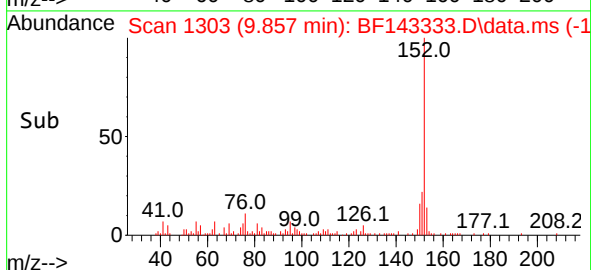
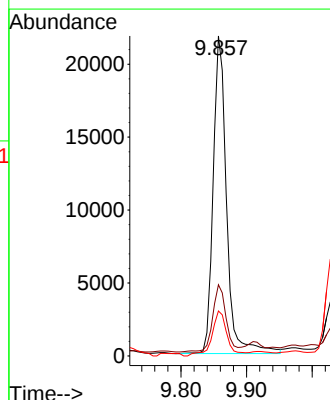
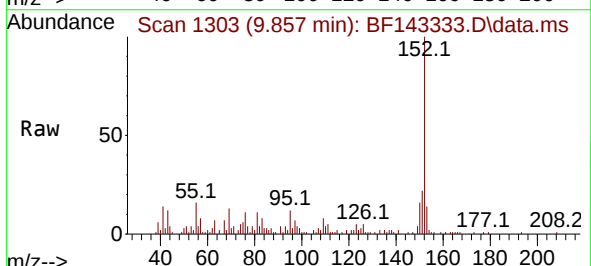
Tgt Ion:152 Resp: 30894

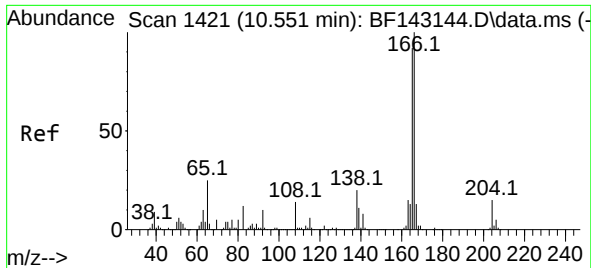
Ion Ratio Lower Upper

152 100

151 22.3 16.2 24.2

153 14.0 10.6 16.0

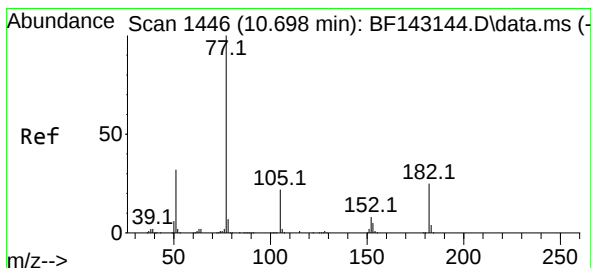
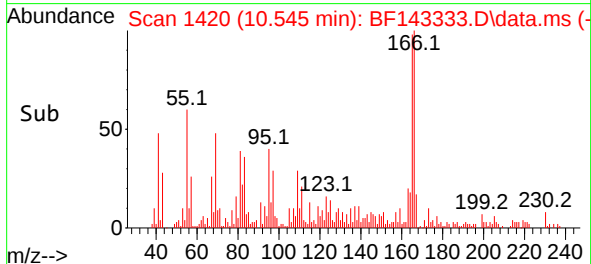
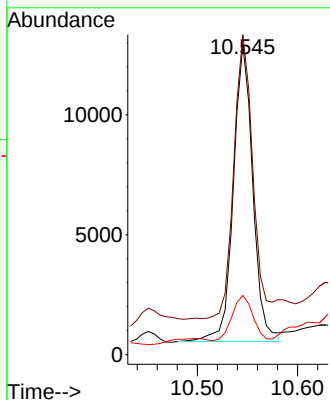
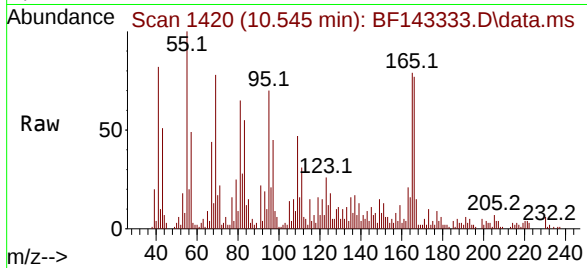




#58
Fluorene
Concen: 2.493 ng
RT: 10.545 min Scan# 1420
Delta R.T. -0.006 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

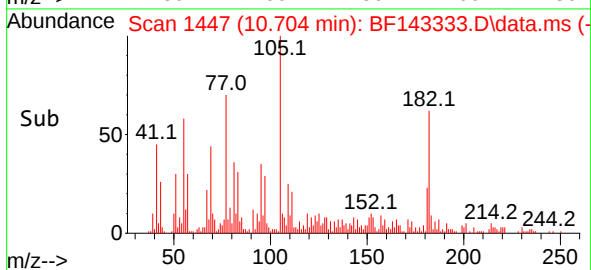
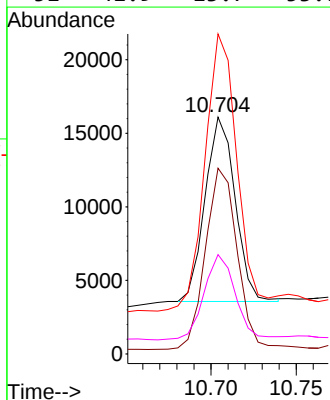
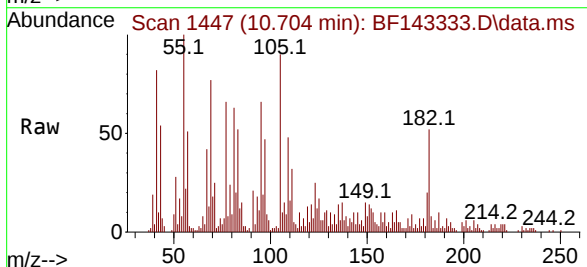
Instrument :
BNA_F
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R5

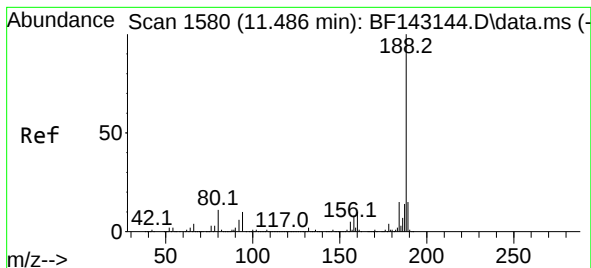
Tgt Ion:166 Resp: 16750
Ion Ratio Lower Upper
166 100
165 103.1 73.7 110.5
167 19.1 10.6 16.0#



#63
Azobenzene
Concen: 2.175 ng
RT: 10.704 min Scan# 1447
Delta R.T. 0.006 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

Tgt Ion: 77 Resp: 15397
Ion Ratio Lower Upper
77 100
182 78.5 4.6 44.6#
105 135.2 1.4 41.4#
51 41.9 13.7 53.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.486 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

Instrument :

BNA_F

ClientSampleId :

R5

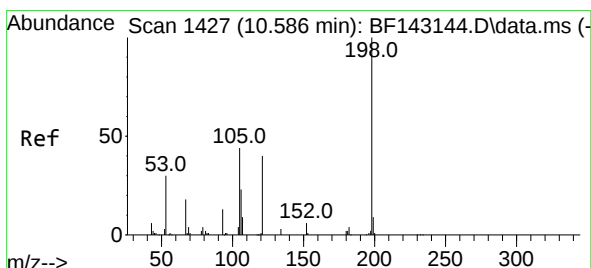
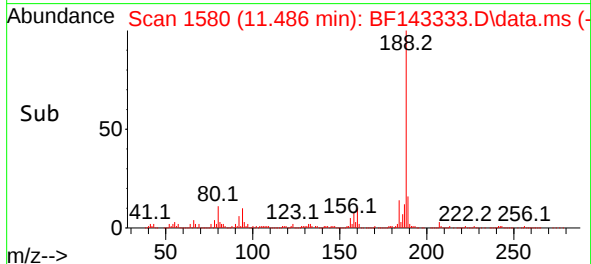
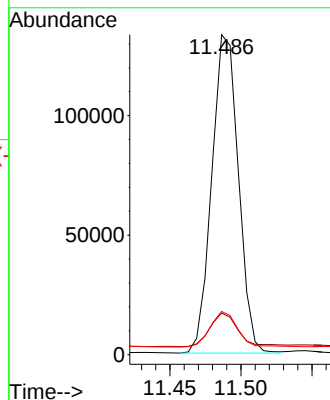
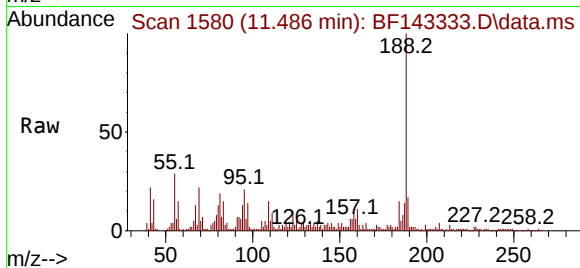
Tgt Ion:188 Resp: 173518

Ion Ratio Lower Upper

188 100

94 13.0 8.3 12.5#

80 13.5 9.0 13.6



#65

4,6-Dinitro-2-methylphenol

Concen: 5.641 ng

RT: 10.786 min Scan# 1461

Delta R.T. 0.200 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

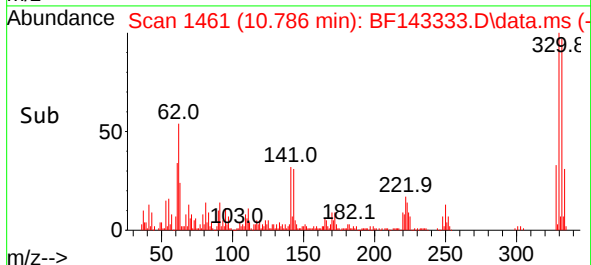
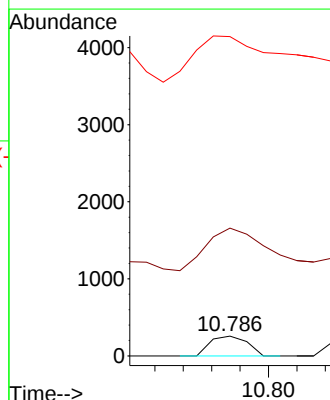
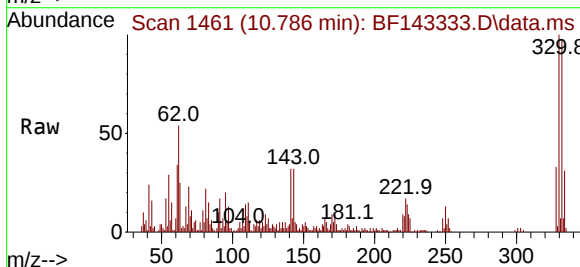
Tgt Ion:198 Resp: 234

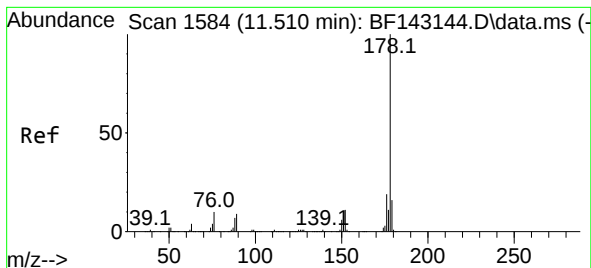
Ion Ratio Lower Upper

198 100

51 647.7 37.2 77.2#

105 1618.0 24.8 64.8#





#71

Phenanthrene

Concen: 40.196 ng

RT: 11.516 min Scan# 1585

Delta R.T. 0.006 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

Instrument :

BNA_F

ClientSampleId :

R5

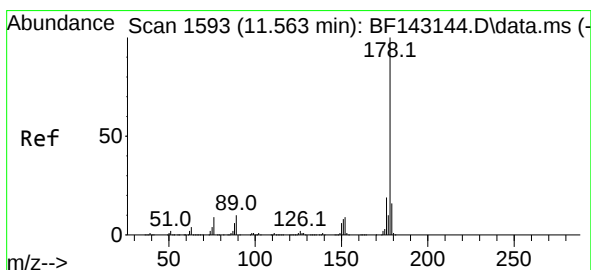
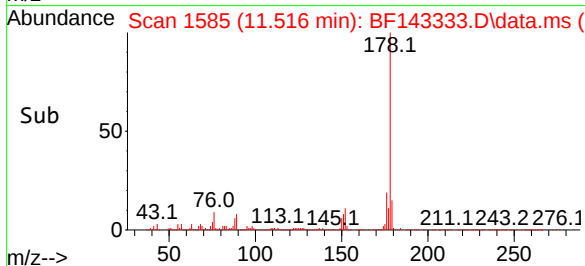
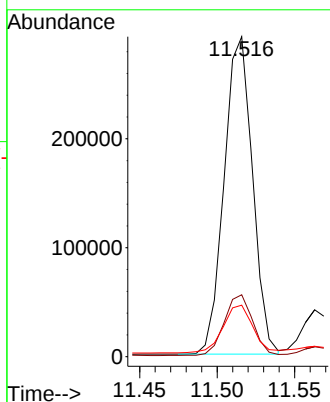
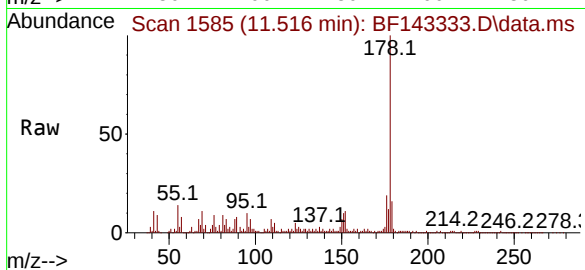
Tgt Ion:178 Resp: 370334

Ion Ratio Lower Upper

178 100

176 19.4 15.3 22.9

179 16.1 12.5 18.7



#72

Anthracene

Concen: 39.412 ng

RT: 11.516 min Scan# 1585

Delta R.T. -0.047 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

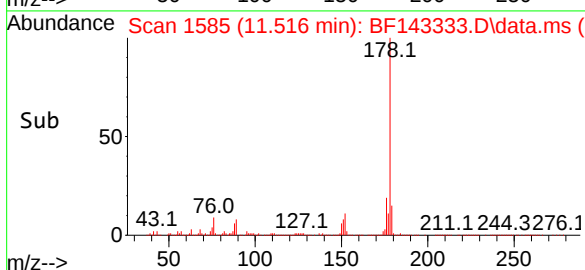
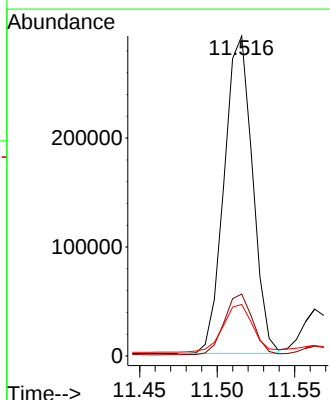
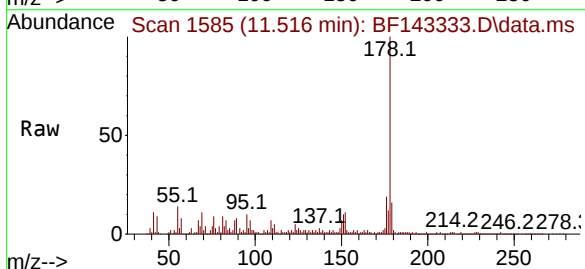
Tgt Ion:178 Resp: 370334

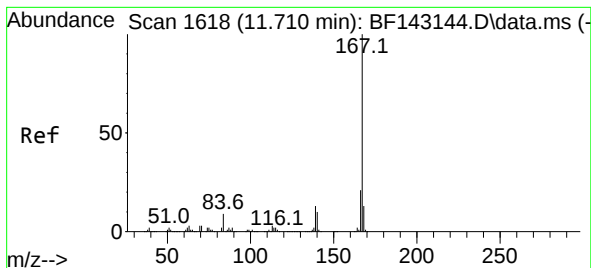
Ion Ratio Lower Upper

178 100

176 19.4 15.0 22.4

179 16.1 12.5 18.7





#73

Carbazole

Concen: 5.582 ng

RT: 11.716 min Scan# 1

Delta R.T. 0.006 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

Instrument :

BNA_F

ClientSampleId :

R5

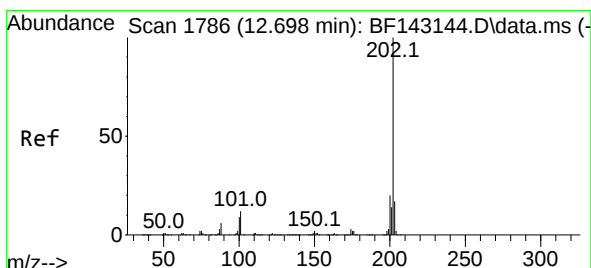
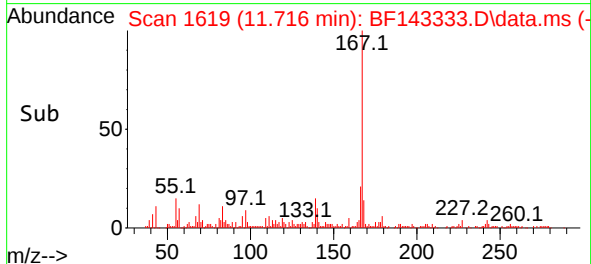
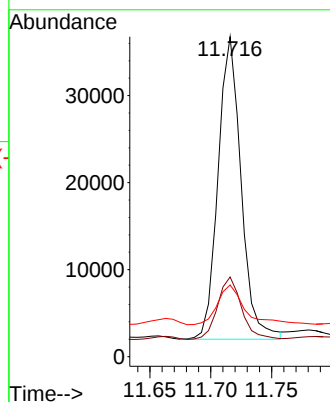
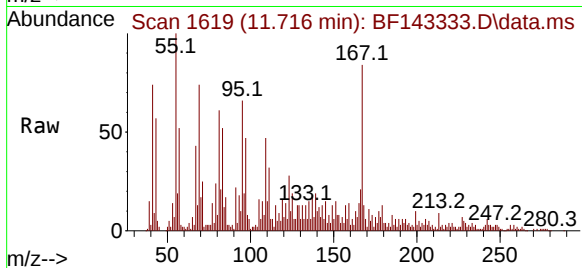
Tgt Ion:167 Resp: 45801

Ion Ratio Lower Upper

167 100

166 24.9 17.0 25.6

139 22.4 10.0 15.0#



#75

Fluoranthene

Concen: 132.450 ng

RT: 12.710 min Scan# 1788

Delta R.T. 0.012 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

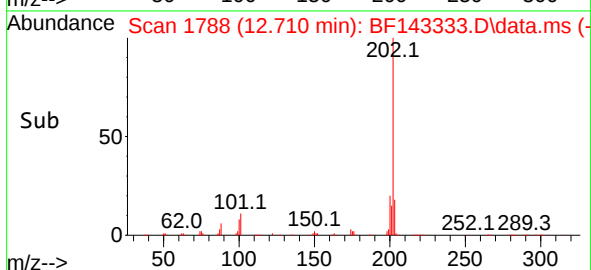
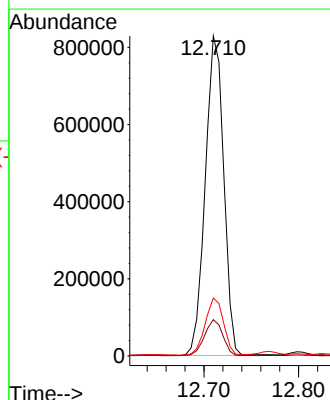
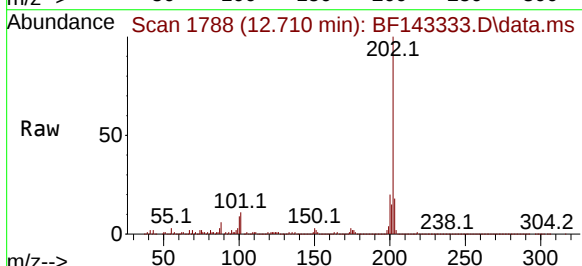
Tgt Ion:202 Resp: 1120071

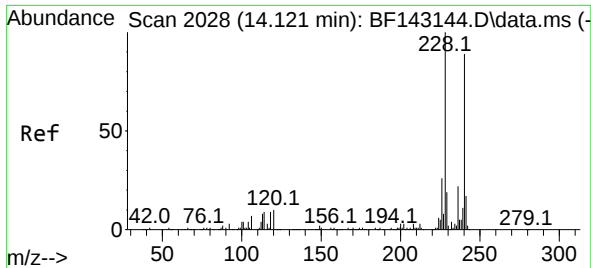
Ion Ratio Lower Upper

202 100

101 11.3 0.0 31.7

203 18.1 0.0 37.4

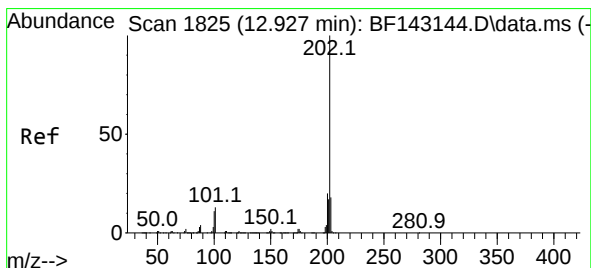
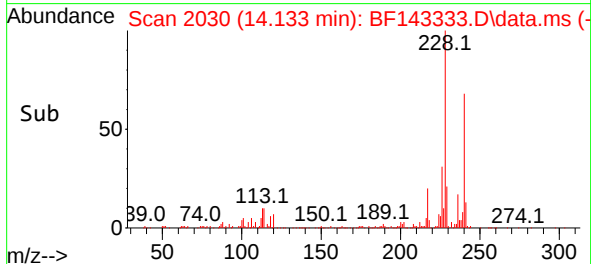
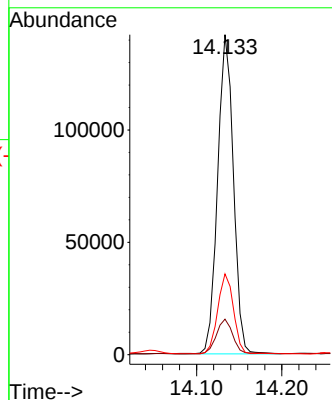
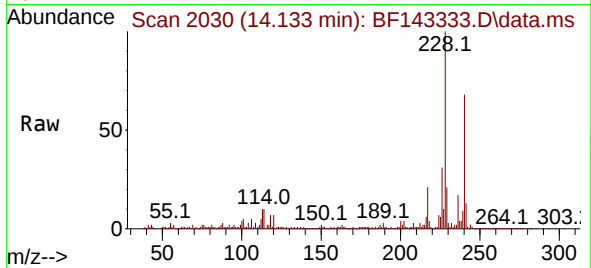




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.133 min Scan# 2028
Delta R.T. 0.012 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

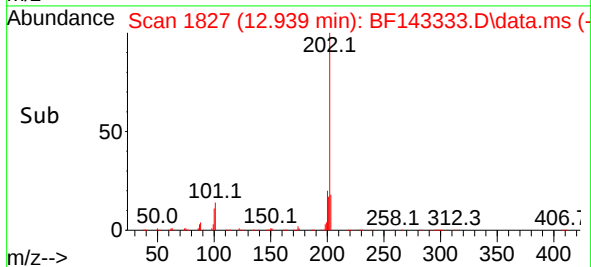
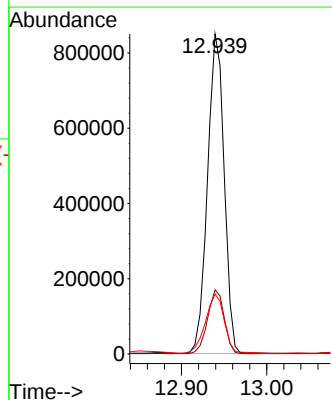
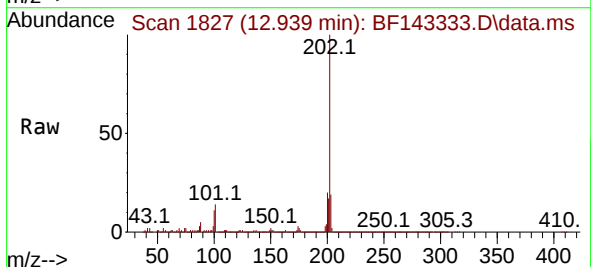
Instrument :
BNA_F
ClientSampleId :
R5

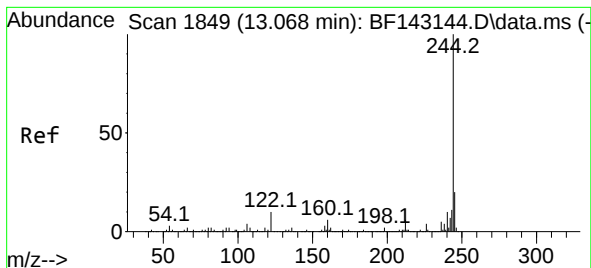
Tgt Ion:240 Resp: 182814
Ion Ratio Lower Upper
240 100
120 11.1 9.4 14.2
236 25.2 20.2 30.4



#78
Pyrene
Concen: 73.812 ng
RT: 12.939 min Scan# 1827
Delta R.T. 0.012 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

Tgt Ion:202 Resp: 1151632
Ion Ratio Lower Upper
202 100
200 20.1 15.7 23.5
203 18.7 14.2 21.2





#79

Terphenyl-d14

Concen: 38.864 ng

RT: 13.069 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

Instrument :

BNA_F

ClientSampleId :

R5

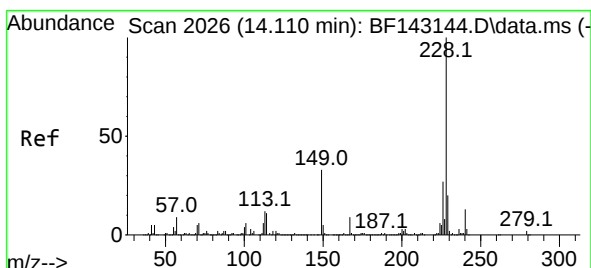
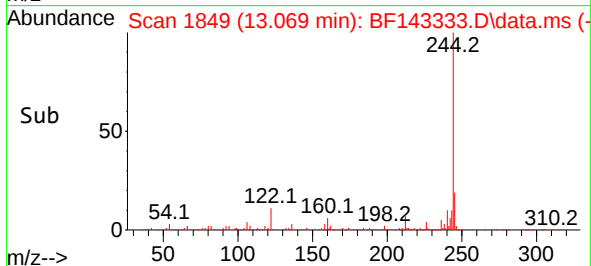
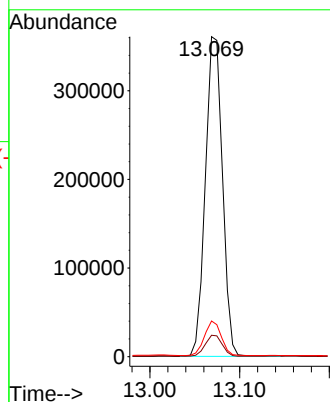
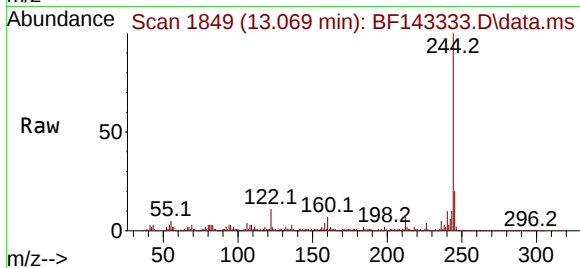
Tgt Ion:244 Resp: 477444

Ion Ratio Lower Upper

244 100

212 6.7 5.2 7.8

122 11.1 8.2 12.2



#81

Benzo(a)anthracene

Concen: 41.356 ng

RT: 14.122 min Scan# 2028

Delta R.T. 0.012 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

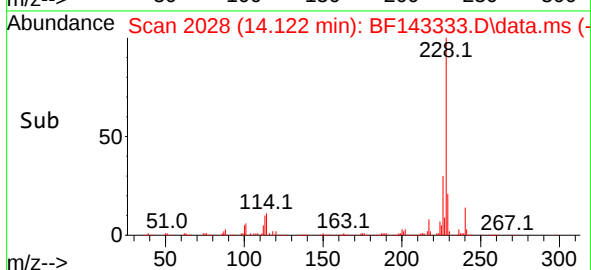
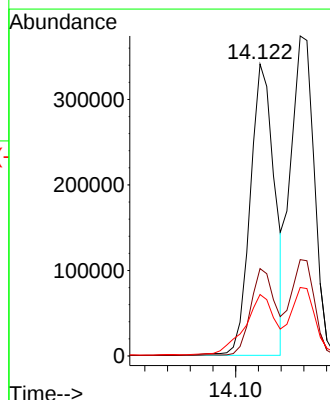
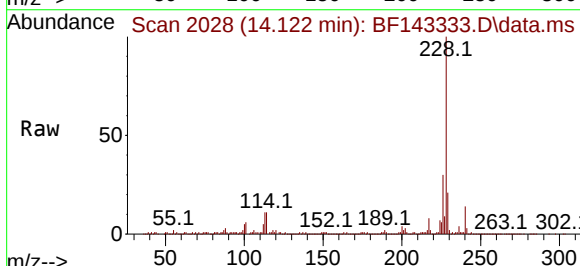
Tgt Ion:228 Resp: 506172

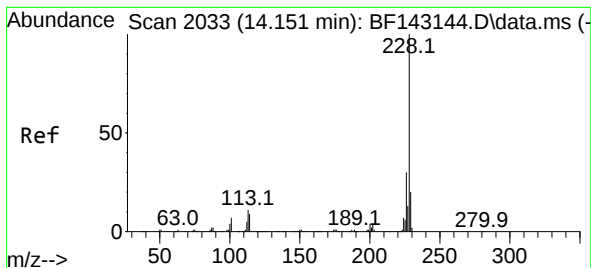
Ion Ratio Lower Upper

228 100

226 29.9 21.7 32.5

229 21.0 15.8 23.6





#83

Chrysene

Concen: 48.627 ng

RT: 14.157 min Scan# 2033

Delta R.T. 0.006 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

Instrument :

BNA_F

ClientSampleId :

R5

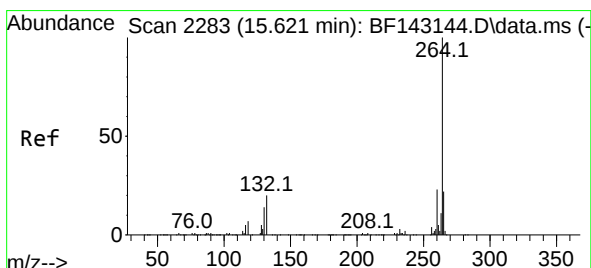
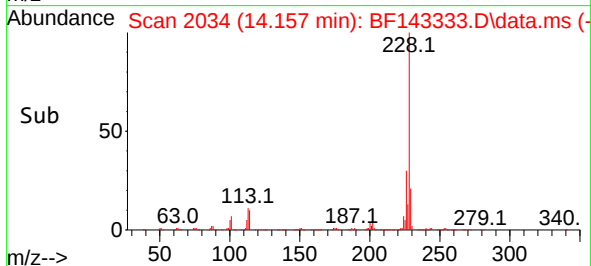
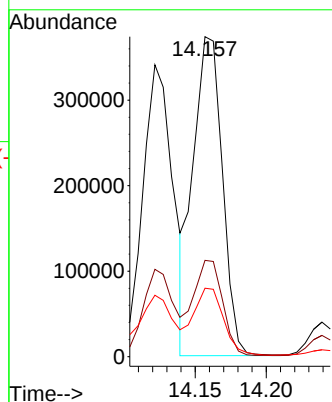
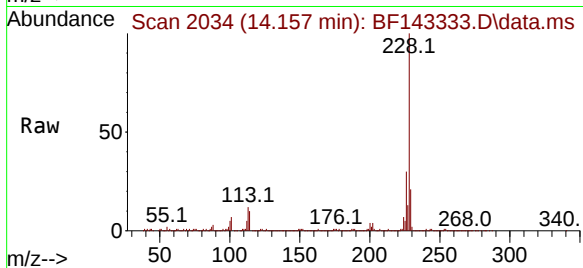
Tgt Ion:228 Resp: 535113

Ion Ratio Lower Upper

228 100

226 30.1 23.8 35.8

229 21.4 15.6 23.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.645 min Scan# 2287

Delta R.T. 0.024 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

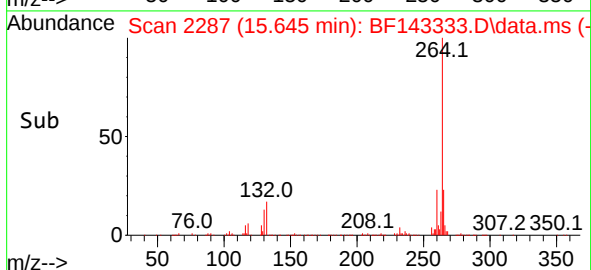
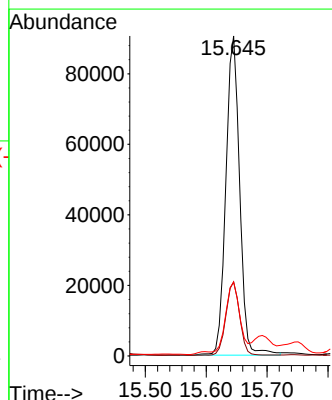
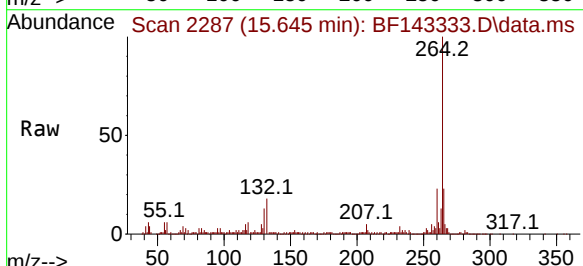
Tgt Ion:264 Resp: 142597

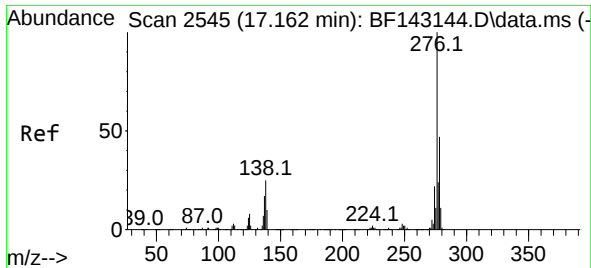
Ion Ratio Lower Upper

264 100

260 23.2 18.5 27.7

265 23.1 17.4 26.2

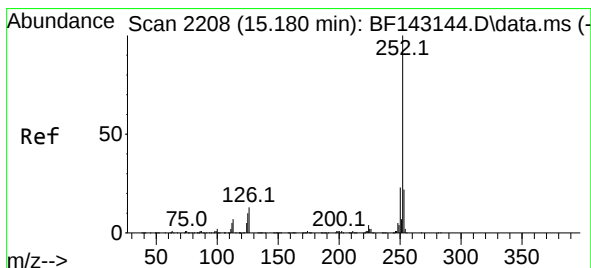
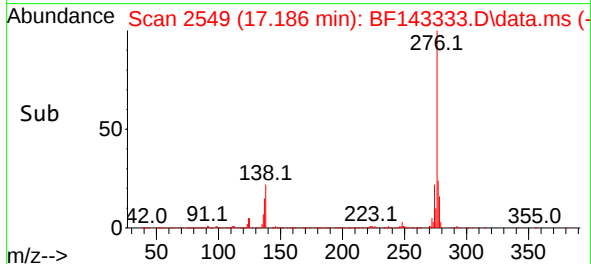
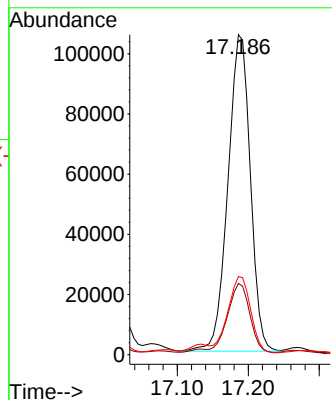
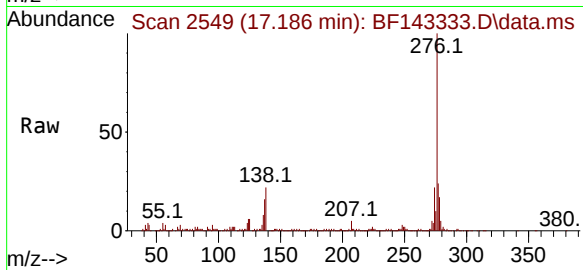




#87
Indeno(1,2,3-cd)pyrene
Concen: 22.934 ng
RT: 17.186 min Scan# 2112
Delta R.T. 0.024 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

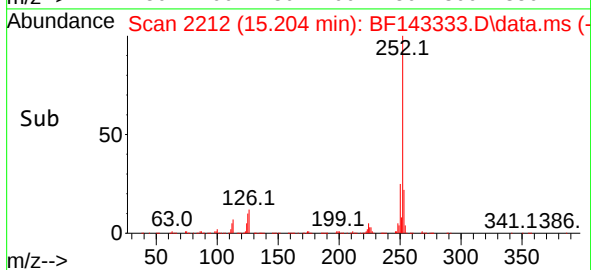
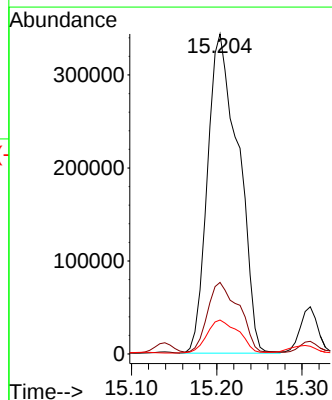
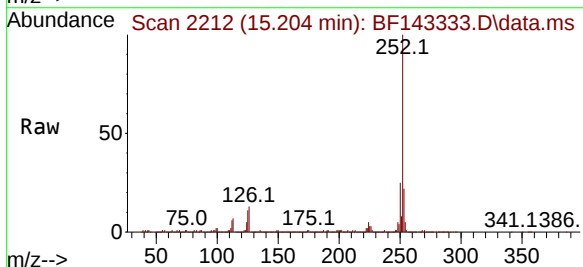
Instrument :
BNA_F
ClientSampleId :
R5

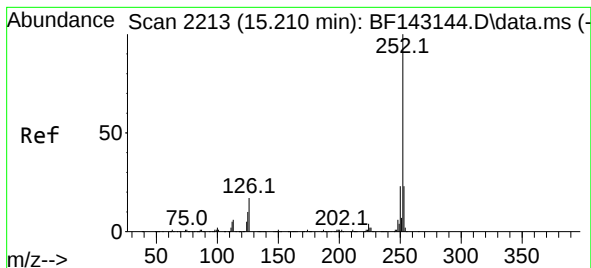
Tgt Ion:276 Resp: 230605
Ion Ratio Lower Upper
276 100
138 22.4 21.8 32.6
277 24.5 20.0 30.0



#88
Benzo(b)fluoranthene
Concen: 99.318 ng
RT: 15.204 min Scan# 2212
Delta R.T. 0.024 min
Lab File: BF143333.D
Acq: 06 Aug 2025 16:43

Tgt Ion:252 Resp: 865201
Ion Ratio Lower Upper
252 100
253 22.3 17.5 26.3
125 10.6 8.0 12.0





#89

Benzo(k)fluoranthene

Concen: 111.300 ng

RT: 15.204 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

Instrument :

BNA_F

ClientSampleId :

R5

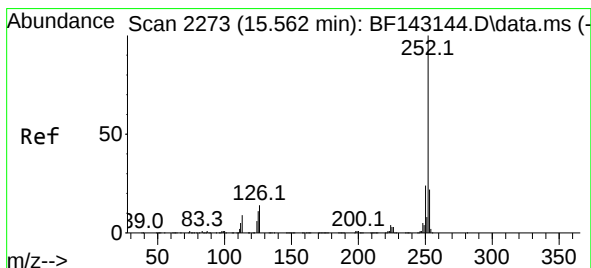
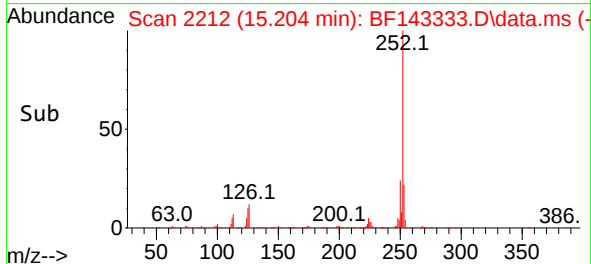
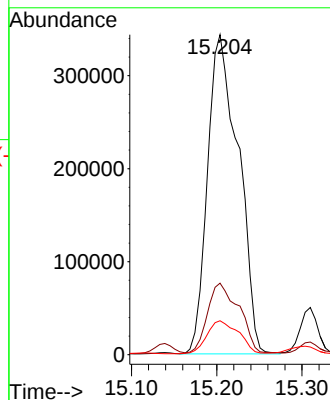
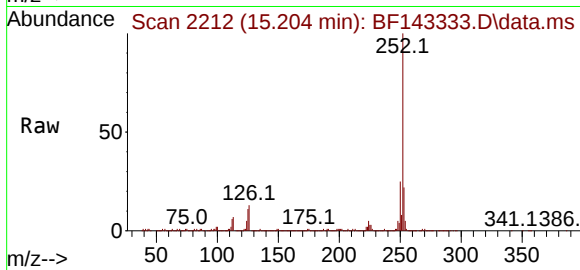
Tgt Ion:252 Resp: 865201

Ion Ratio Lower Upper

252 100

253 22.3 17.8 26.6

125 10.6 8.1 12.1



#90

Benzo(a)pyrene

Concen: 49.031 ng

RT: 15.580 min Scan# 2276

Delta R.T. 0.018 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

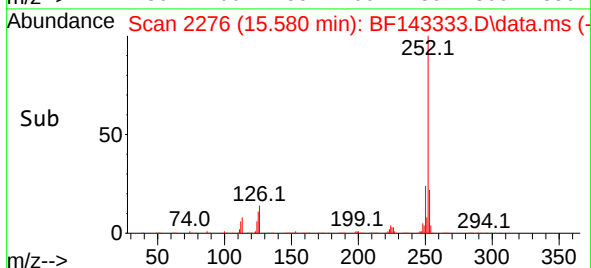
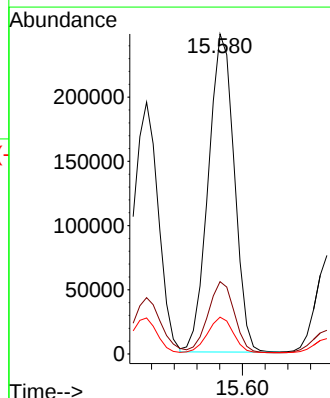
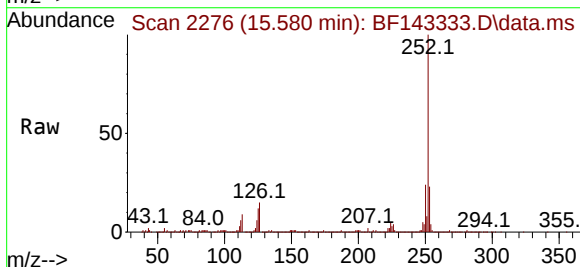
Tgt Ion:252 Resp: 393531

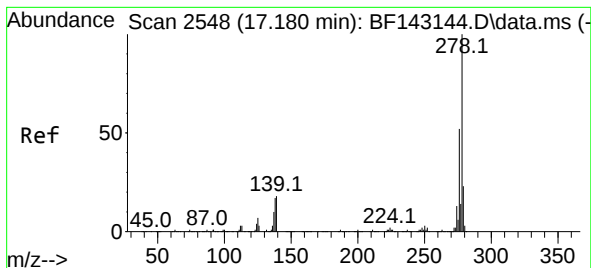
Ion Ratio Lower Upper

252 100

253 22.6 17.3 25.9

125 11.5 8.6 13.0





#91

Dibenzo(a,h)anthracene

Concen: 3.159 ng

RT: 17.433 min Scan# 21

Delta R.T. 0.253 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

Instrument :

BNA_F

ClientSampleId :

R5

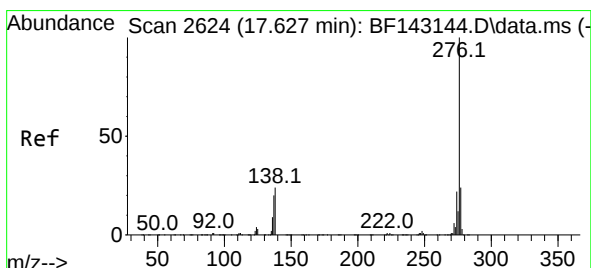
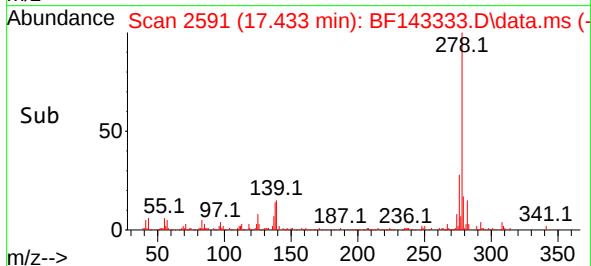
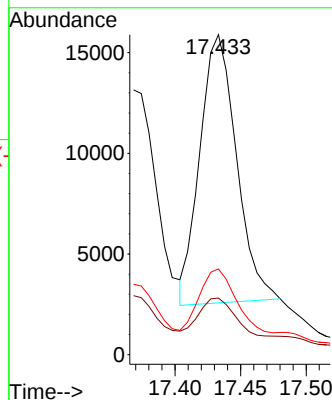
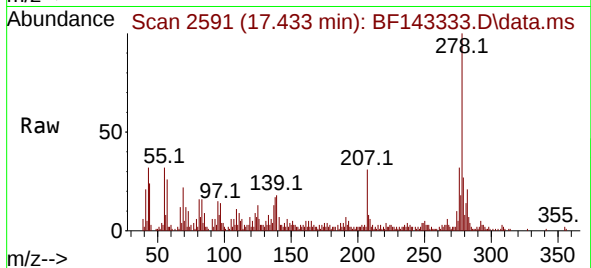
Tgt Ion:278 Resp: 25854

Ion Ratio Lower Upper

278 100

139 17.7 14.1 21.1

279 26.8 18.6 28.0



#92

Benzo(g,h,i)perylene

Concen: 32.297 ng

RT: 17.657 min Scan# 2629

Delta R.T. 0.030 min

Lab File: BF143333.D

Acq: 06 Aug 2025 16:43

Tgt Ion:276 Resp: 255690

Ion Ratio Lower Upper

276 100

277 23.6 19.1 28.7

138 23.6 18.9 28.3

