

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120225\
 Data File : BF144401.D
 Acq On : 02 Dec 2025 14:21
 Operator : RC/JU
 Sample : Q3742-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-1125-23

Quant Time: Dec 02 14:48:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 05 18:37:33 2025
 Response via : Initial Calibration

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

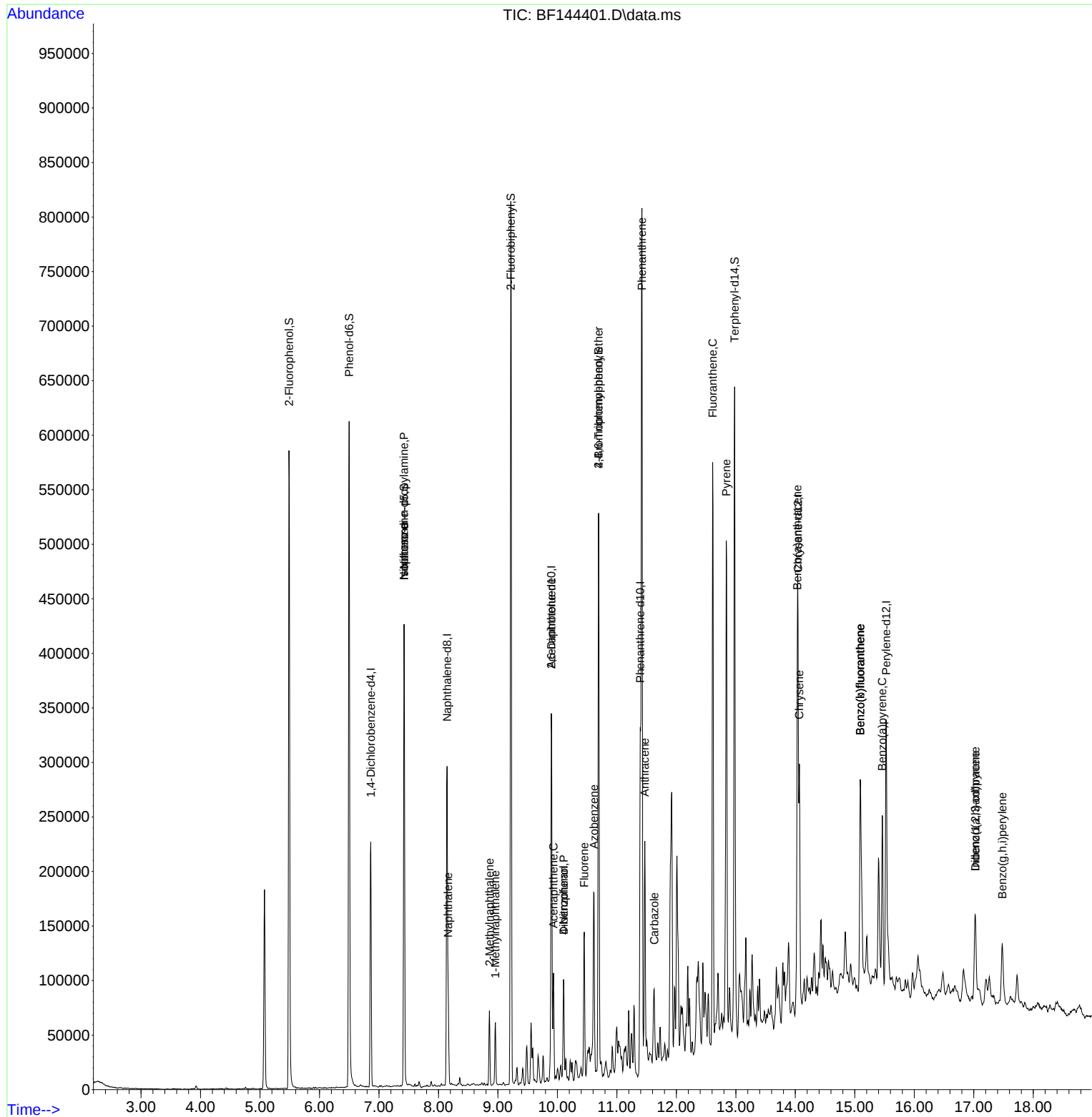
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	48990	20.000	ng	-0.01
21) Naphthalene-d8	8.145	136	188700	20.000	ng	-0.01
39) Acenaphthene-d10	9.898	164	105045	20.000	ng	-0.02
64) Phenanthrene-d10	11.392	188	174584	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	109456	20.000	ng	0.00
86) Perylene-d12	15.527	264	151141	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	243682	77.839	ng	0.00
7) Phenol-d6	6.498	99	282581	79.663	ng	0.00
23) Nitrobenzene-d5	7.422	82	173911	53.229	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	97311	73.822	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	378690	53.244	ng	-0.01
79) Terphenyl-d14	12.980	244	313734	45.528	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.422	70	24991	10.702	ng	# 80
25) Isophorone	7.422	82	173908	28.140	ng	# 66
31) Naphthalene	8.163	128	49102	5.470	ng	99
37) 2-Methylnaphthalene	8.857	142	25152	4.191	ng	99
38) 1-Methylnaphthalene	8.957	142	21231	3.666	ng	99
51) 2,6-Dinitrotoluene	9.898	165	14051	9.974	ng	# 27
52) Acenaphthene	9.933	154	29025	5.092	ng	99
55) Dibenzofuran	10.104	168	40937	5.128	ng	97
56) 4-Nitrophenol	10.104	139	15628	14.029	ng	# 10
58) Fluorene	10.451	166	50278	8.284	ng	98
63) Azobenzene	10.616	77	34133	5.717	ng	# 1
67) 4-Bromophenyl-phenylether	10.692	248	5244	2.353	ng	# 1
71) Phenanthrene	11.422	178	464618	53.452	ng	100
72) Anthracene	11.469	178	123155	13.934	ng	98
73) Carbazole	11.627	167	33124	4.407	ng	98
75) Fluoranthene	12.610	202	310882	34.623	ng	98
78) Pyrene	12.839	202	281489	31.896	ng	98
81) Benzo(a)anthracene	14.033	228	143358	18.897	ng	97
83) Chrysene	14.068	228	120652	17.229	ng	96
87) Indeno(1,2,3-cd)pyrene	17.027	276	55200	5.088	ng	97
88) Benzo(b)fluoranthene	15.092	252	171595	19.970	ng	# 97
89) Benzo(k)fluoranthene	15.092	252	171595	21.335	ng	# 98
90) Benzo(a)pyrene	15.462	252	104982	13.243	ng	96
91) Dibenzo(a,h)anthracene	17.027	278	17611	2.021	ng	# 81
92) Benzo(g,h,i)perylene	17.480	276	50569	5.877	ng	96

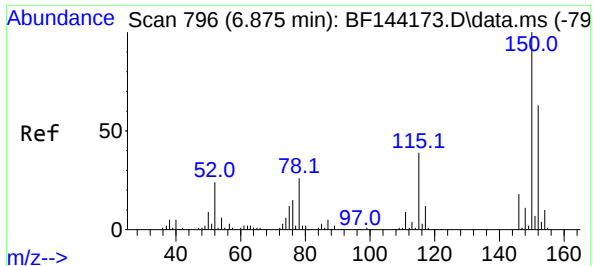
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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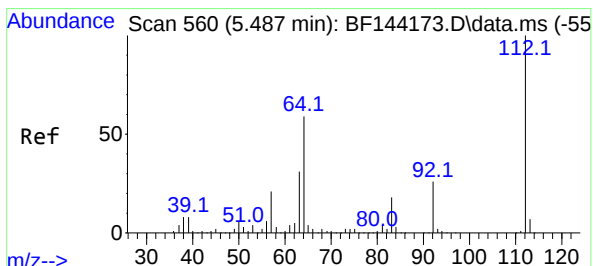
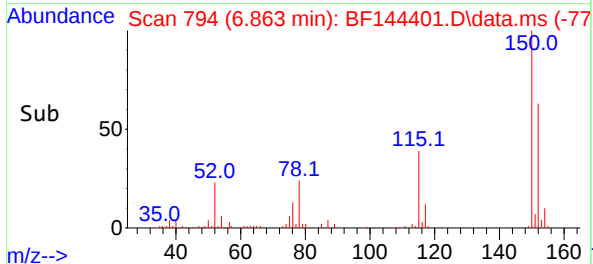
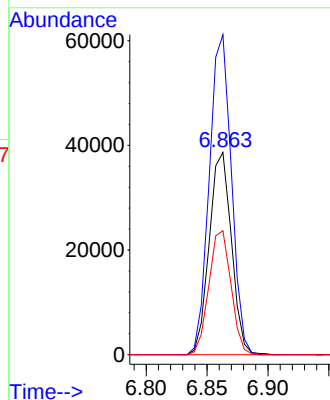
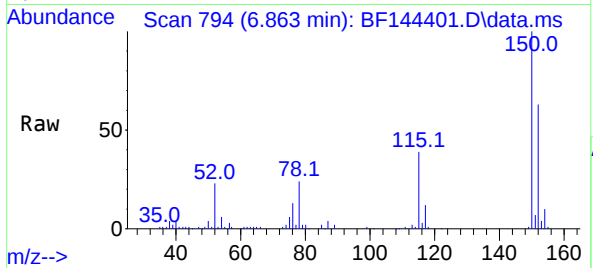




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 794
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

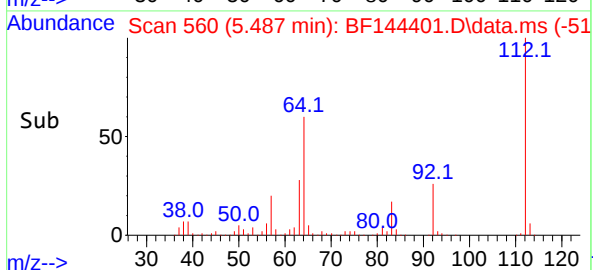
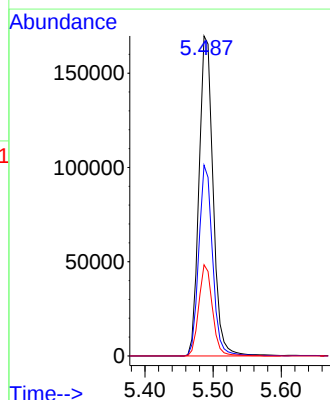
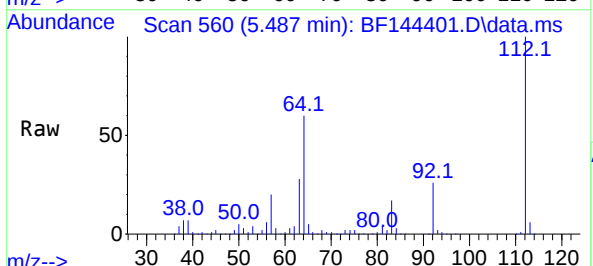
Instrument :
BNA_F
ClientSampleId :
SB-1125-23

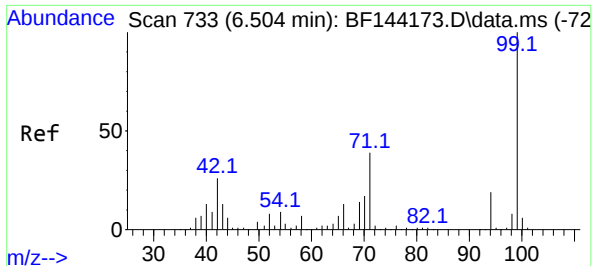
Tgt Ion:152 Resp: 48990
Ion Ratio Lower Upper
152 100
150 158.2 127.4 191.0
115 61.3 49.5 74.3



#5
2-Fluorophenol
Concen: 77.839 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.006 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Tgt Ion:112 Resp: 243682
Ion Ratio Lower Upper
112 100
64 59.6 47.2 70.8
63 28.5 24.4 36.6



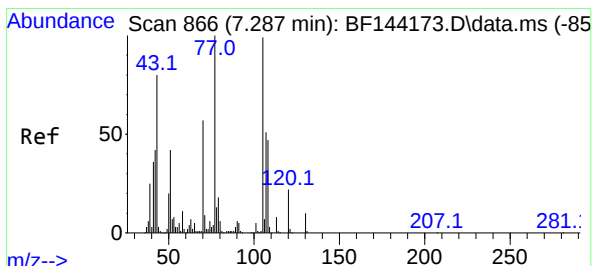
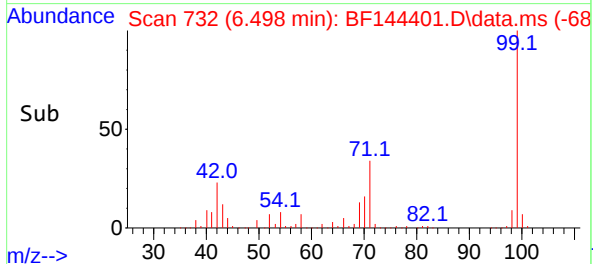
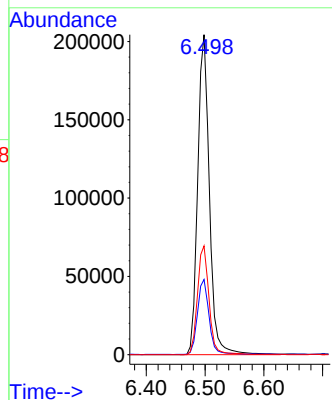
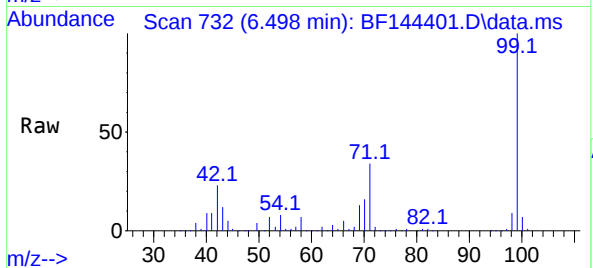


#7
Phenol-d6
Concen: 79.663 ng
RT: 6.498 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Instrument :
BNA_F
ClientSampleId :
SB-1125-23

Tgt Ion: 99 Resp: 282581

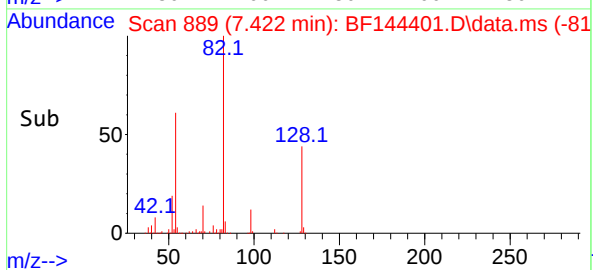
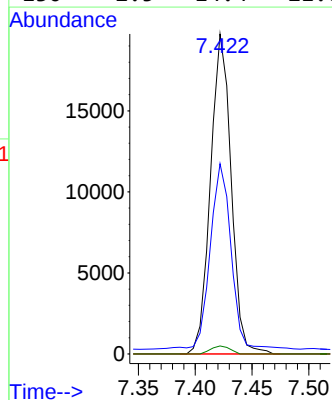
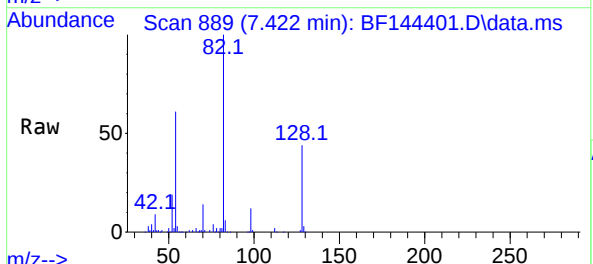
Ion	Ratio	Lower	Upper
99	100		
42	23.5	20.9	31.3
71	34.0	31.4	47.2

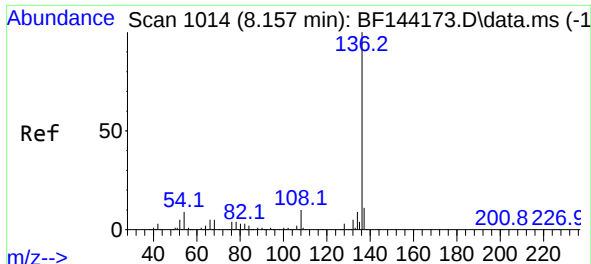


#19
n-Nitroso-di-n-propylamine
Concen: 10.702 ng
RT: 7.422 min Scan# 889
Delta R.T. 0.147 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Tgt Ion: 70 Resp: 24991

Ion	Ratio	Lower	Upper
70	100		
42	59.4	58.3	87.5
101	0.0	7.0	10.6#
130	2.5	14.4	21.6#



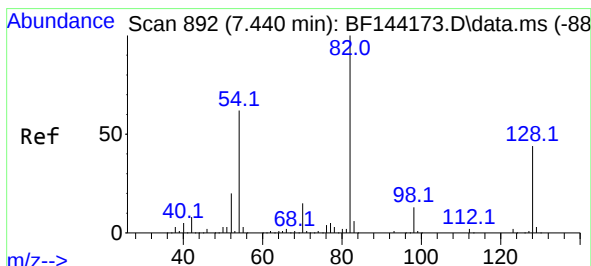
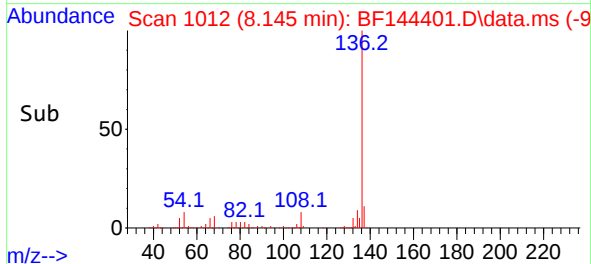
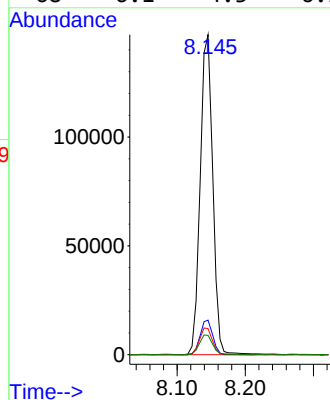
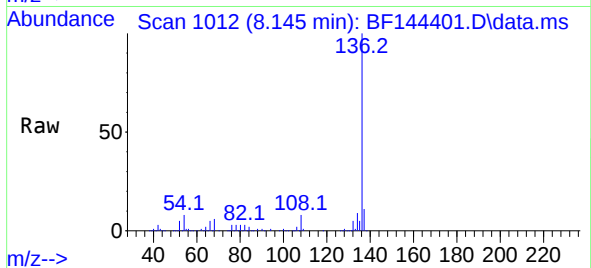


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Instrument :
BNA_F
ClientSampleId :
SB-1125-23

Tgt Ion:136 Resp: 188700

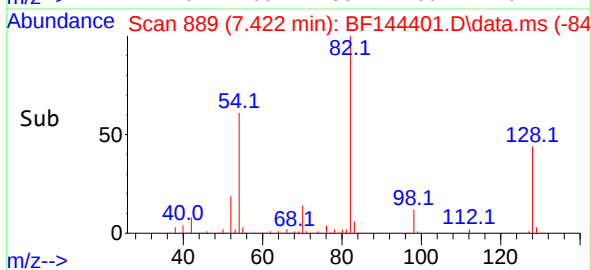
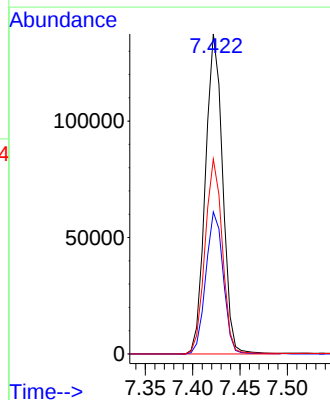
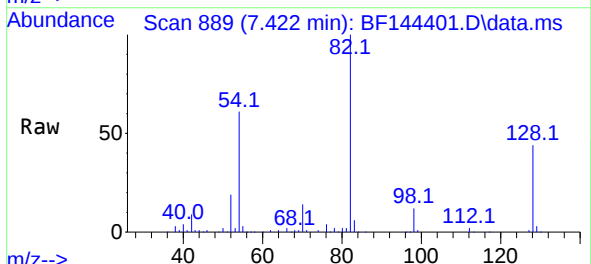
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.2	7.0	10.6
68	6.1	4.3	6.5

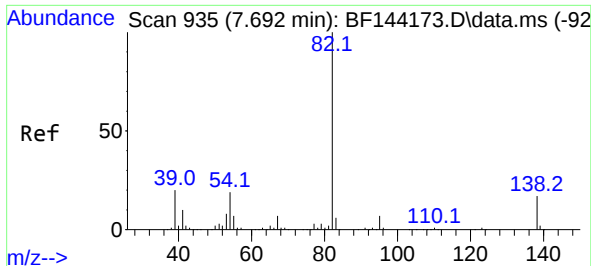


#23
Nitrobenzene-d5
Concen: 53.229 ng
RT: 7.422 min Scan# 889
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Tgt Ion: 82 Resp: 173911

Ion	Ratio	Lower	Upper
82	100		
128	44.4	34.7	52.1
54	60.9	49.5	74.3

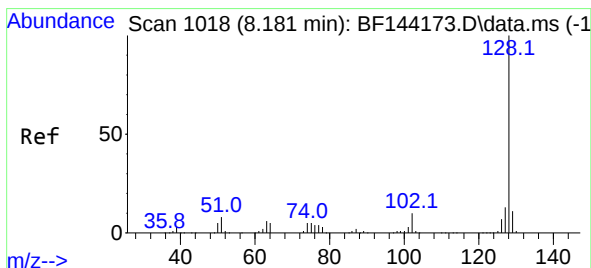
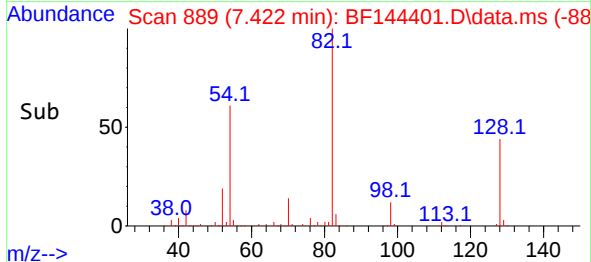
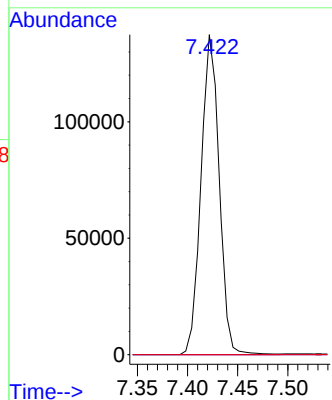
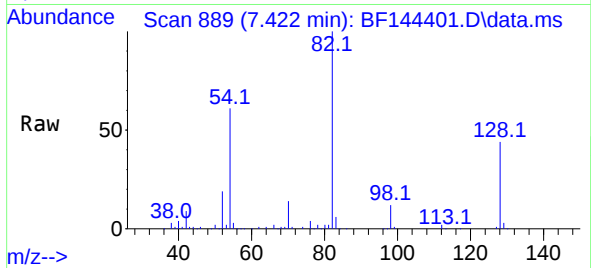




#25
Isophorone
Concen: 28.140 ng
RT: 7.422 min Scan# 81
Delta R.T. -0.265 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

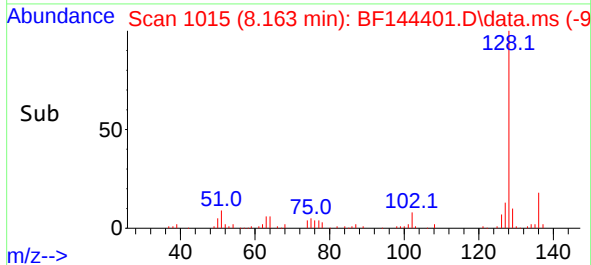
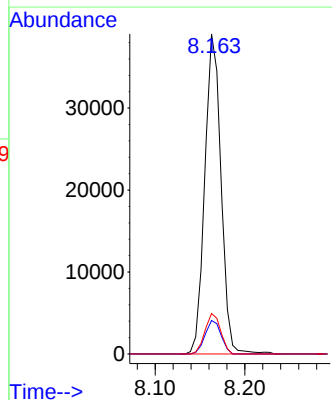
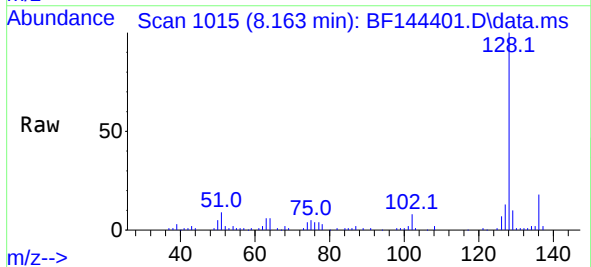
Instrument :
BNA_F
ClientSampleId :
SB-1125-23

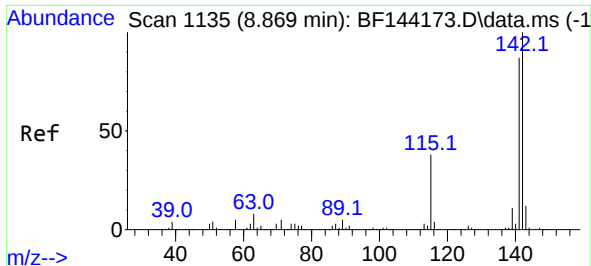
Tgt Ion: 82 Resp: 173908
Ion Ratio Lower Upper
82 100
95 0.0 5.5 8.3#
138 0.0 13.7 20.5#



#31
Naphthalene
Concen: 5.470 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Tgt Ion: 128 Resp: 49102
Ion Ratio Lower Upper
128 100
129 10.4 8.9 13.3
127 12.6 10.3 15.5





#37

2-Methylnaphthalene

Concen: 4.191 ng

RT: 8.857 min Scan# 1133

Delta R.T. -0.012 min

Lab File: BF144401.D

Acq: 02 Dec 2025 14:21

Instrument :

BNA_F

ClientSampleId :

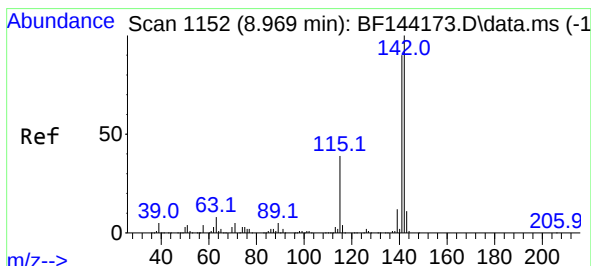
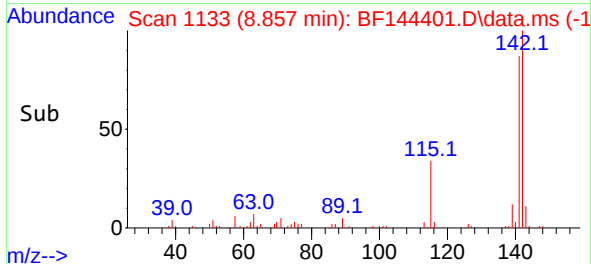
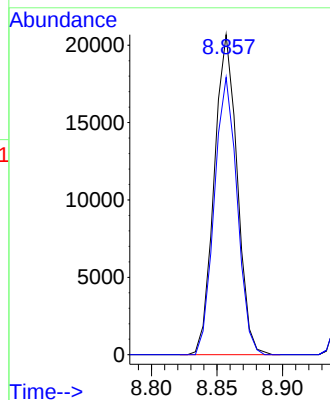
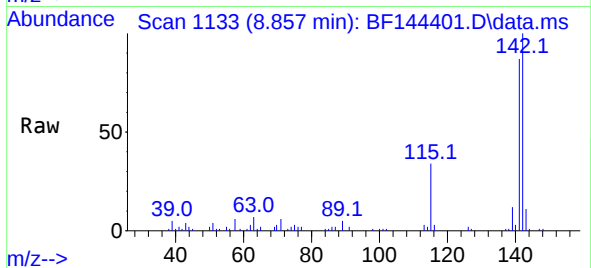
SB-1125-23

Tgt Ion:142 Resp: 25152

Ion Ratio Lower Upper

142 100

141 86.7 69.9 104.9



#38

1-Methylnaphthalene

Concen: 3.666 ng

RT: 8.957 min Scan# 1150

Delta R.T. -0.012 min

Lab File: BF144401.D

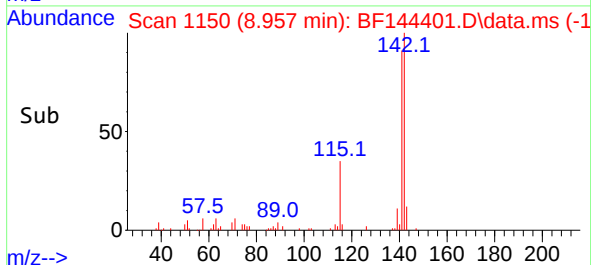
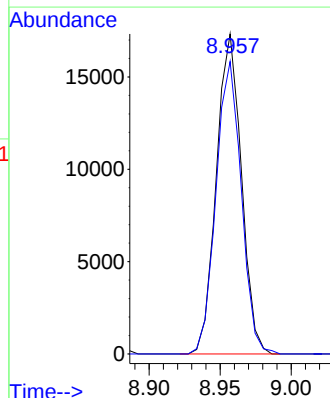
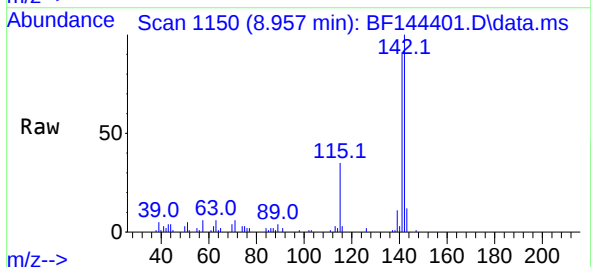
Acq: 02 Dec 2025 14:21

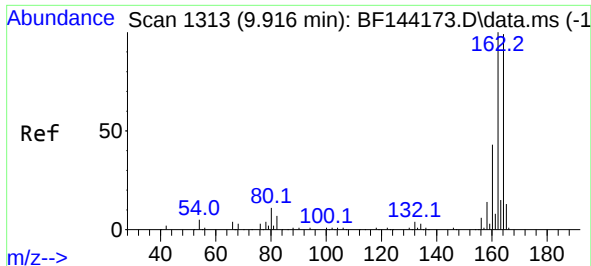
Tgt Ion:142 Resp: 21231

Ion Ratio Lower Upper

142 100

141 91.4 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.898 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF144401.D

Acq: 02 Dec 2025 14:21

Instrument :

BNA_F

ClientSampleId :

SB-1125-23

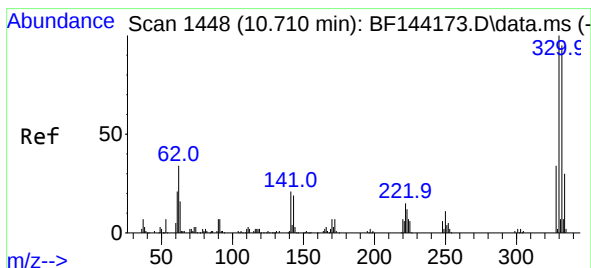
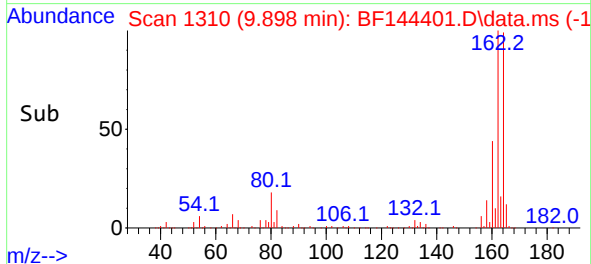
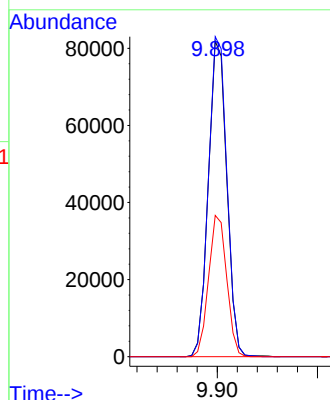
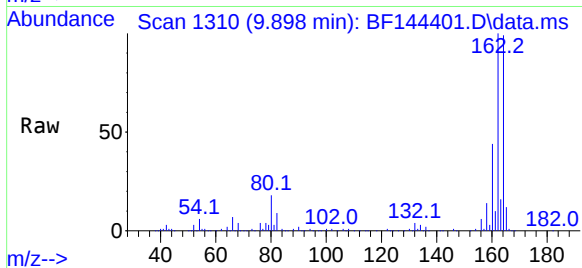
Tgt Ion:164 Resp: 105045

Ion Ratio Lower Upper

164 100

162 101.4 81.1 121.7

160 44.8 34.5 51.7



#42

2,4,6-Tribromophenol

Concen: 73.822 ng

RT: 10.692 min Scan# 1445

Delta R.T. -0.012 min

Lab File: BF144401.D

Acq: 02 Dec 2025 14:21

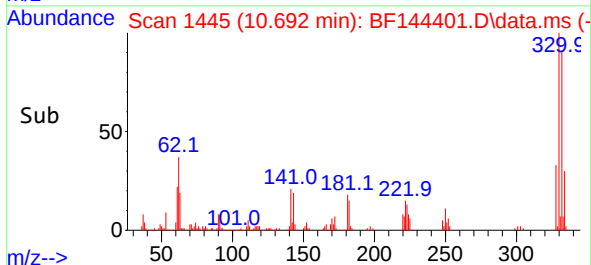
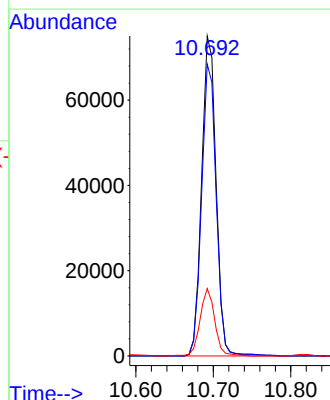
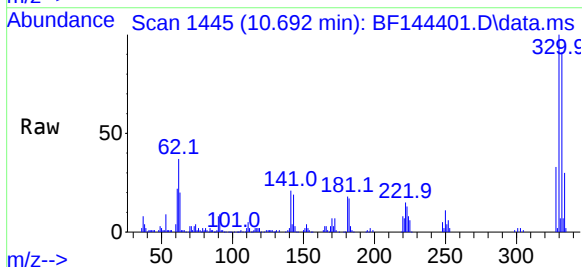
Tgt Ion:330 Resp: 97311

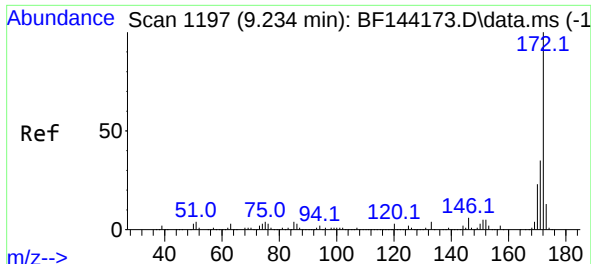
Ion Ratio Lower Upper

330 100

332 92.0 76.7 115.1

141 21.4 17.8 26.8





#45

2-Fluorobiphenyl

Concen: 53.244 ng

RT: 9.216 min Scan# 1194

Delta R.T. -0.012 min

Lab File: BF144401.D

Acq: 02 Dec 2025 14:21

Instrument :

BNA_F

ClientSampleId :

SB-1125-23

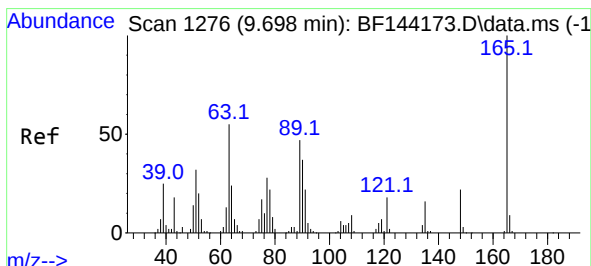
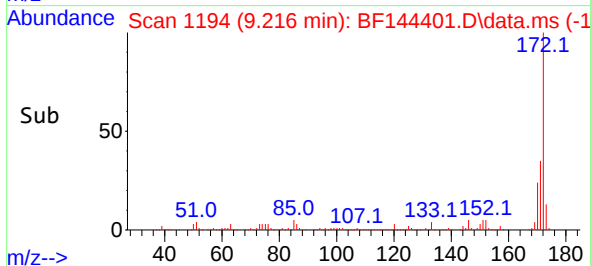
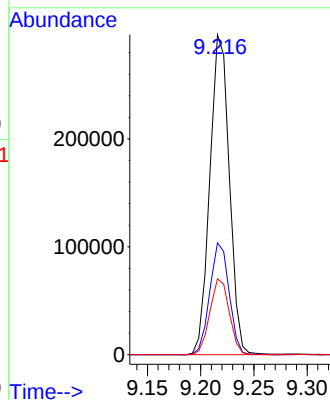
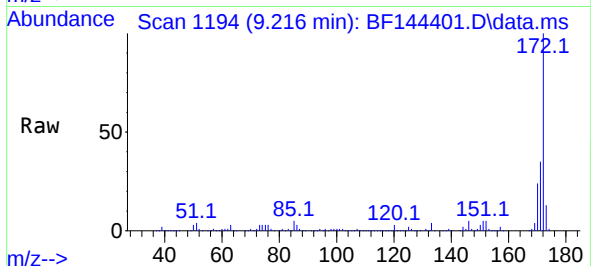
Tgt Ion:172 Resp: 378690

Ion Ratio Lower Upper

172 100

171 35.0 28.1 42.1

170 23.7 18.6 28.0



#51

2,6-Dinitrotoluene

Concen: 9.974 ng

RT: 9.898 min Scan# 1310

Delta R.T. 0.206 min

Lab File: BF144401.D

Acq: 02 Dec 2025 14:21

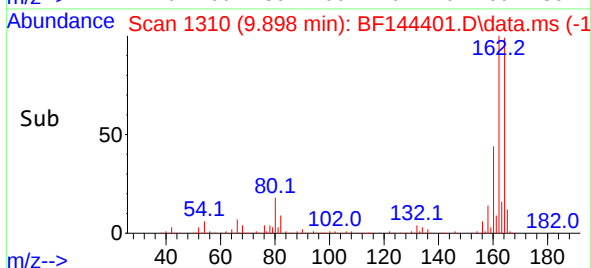
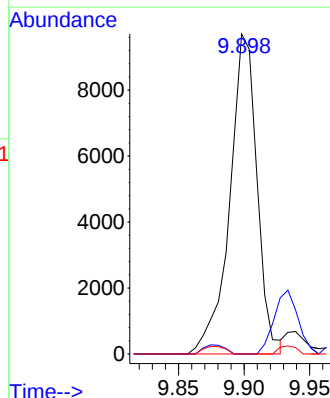
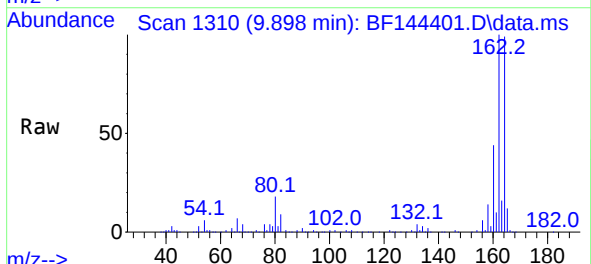
Tgt Ion:165 Resp: 14051

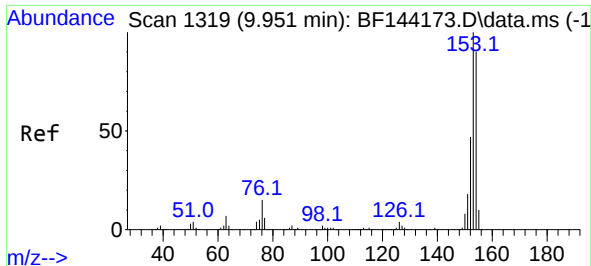
Ion Ratio Lower Upper

165 100

63 0.0 43.8 65.8#

89 0.0 37.5 56.3#

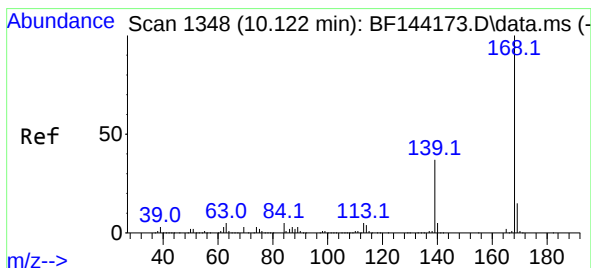
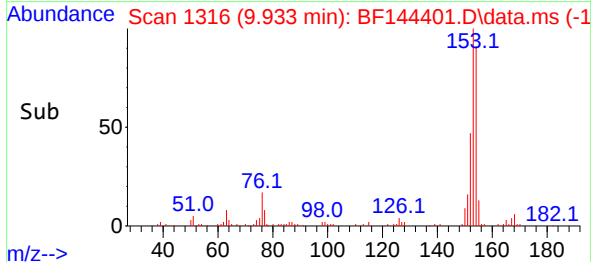
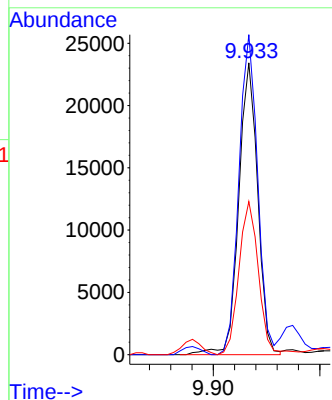
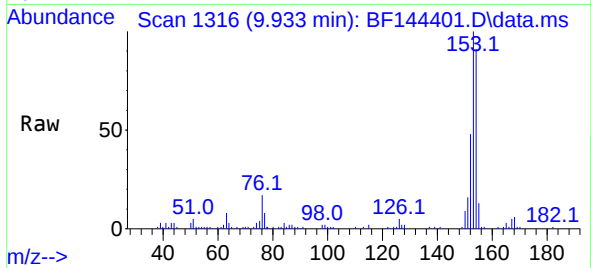




#52
Acenaphthene
Concen: 5.092 ng
RT: 9.933 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

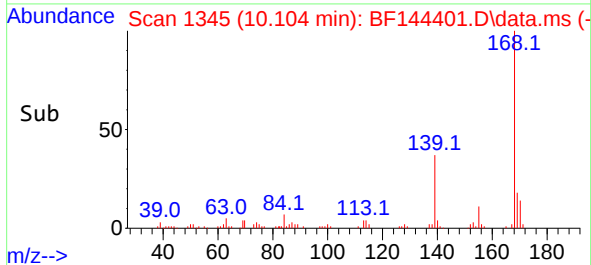
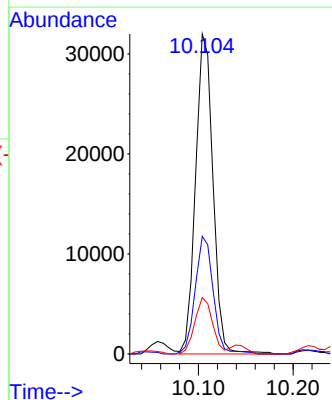
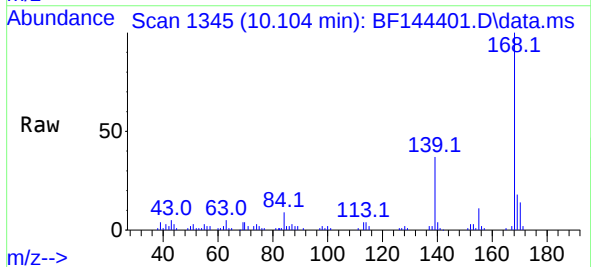
Instrument :
BNA_F
ClientSampleId :
SB-1125-23

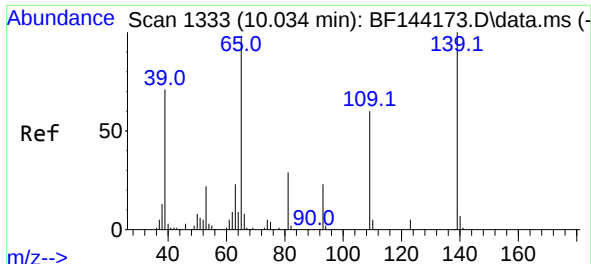
Tgt Ion:154 Resp: 29025
Ion Ratio Lower Upper
154 100
153 109.7 89.0 133.4
152 52.5 42.2 63.4



#55
Dibenzofuran
Concen: 5.128 ng
RT: 10.104 min Scan# 1345
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Tgt Ion:168 Resp: 40937
Ion Ratio Lower Upper
168 100
139 36.7 30.2 45.2
169 17.6 12.2 18.4

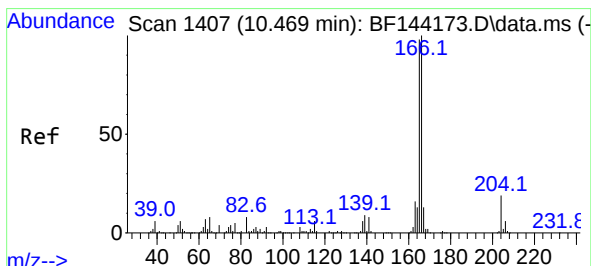
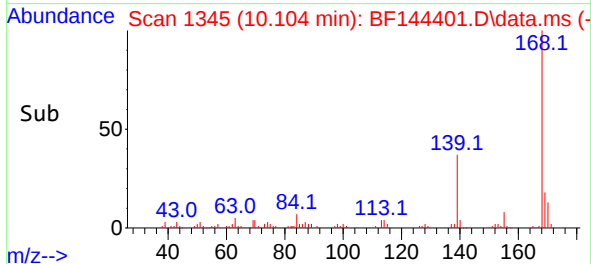
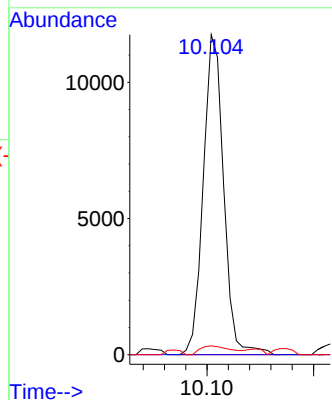
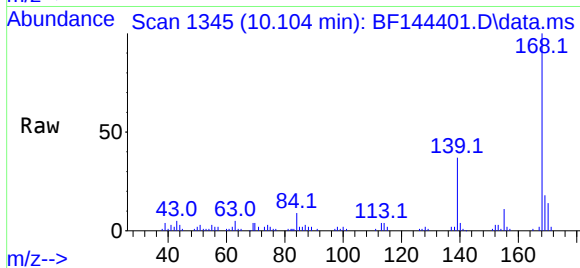




#56
4-Nitrophenol
Concen: 14.029 ng
RT: 10.104 min Scan# 11
Delta R.T. 0.065 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

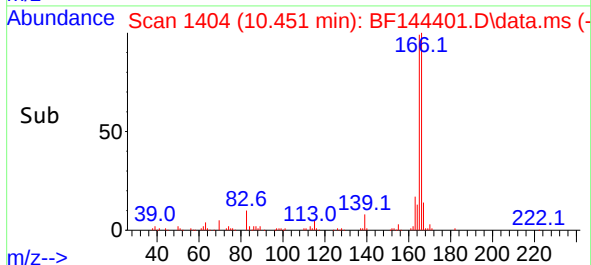
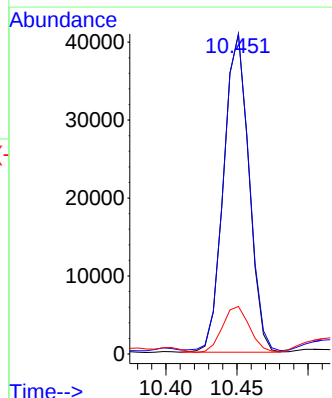
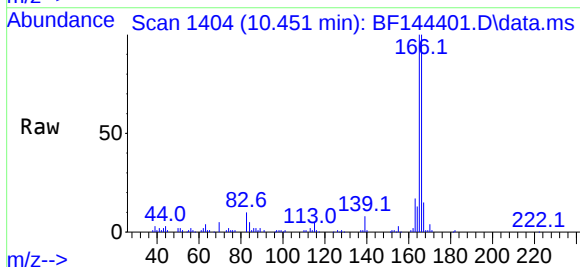
Instrument :
BNA_F
ClientSampleId :
SB-1125-23

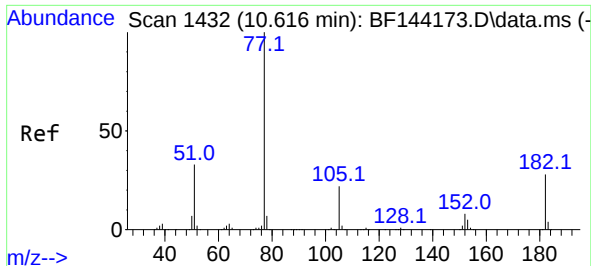
Tgt Ion:139 Resp: 15628
Ion Ratio Lower Upper
139 100
109 0.0 39.9 79.9#
65 2.8 79.5 119.5#



#58
Fluorene
Concen: 8.284 ng
RT: 10.451 min Scan# 1404
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Tgt Ion:166 Resp: 50278
Ion Ratio Lower Upper
166 100
165 100.1 78.6 118.0
167 14.9 10.4 15.6

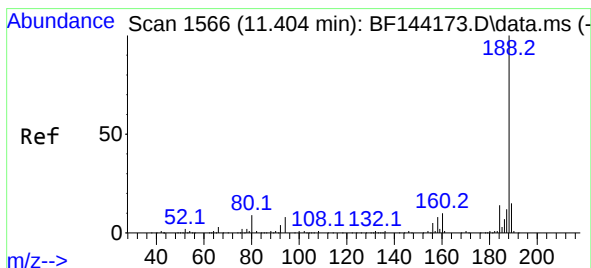
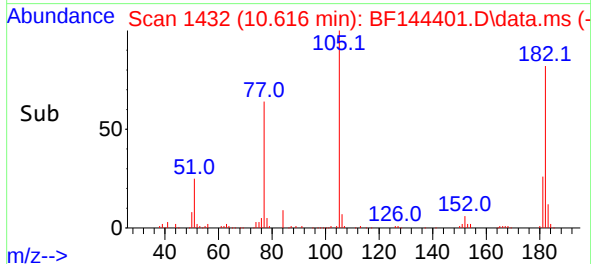
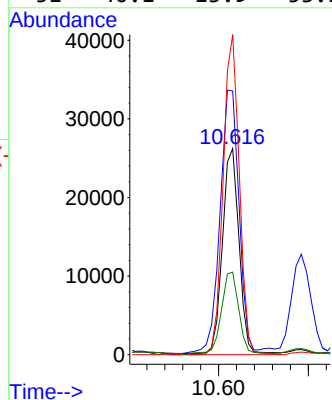
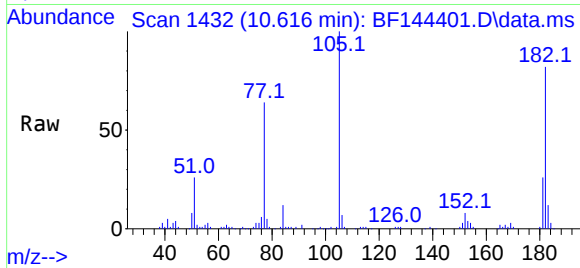




#63
Azobenzene
Concen: 5.717 ng
RT: 10.616 min Scan# 1432
Delta R.T. -0.000 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

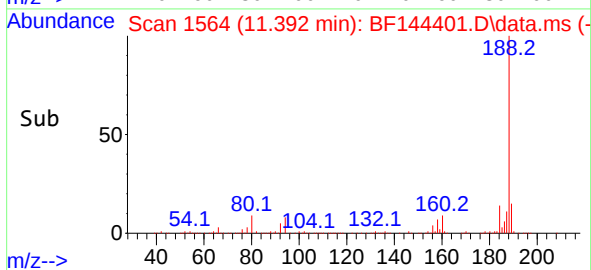
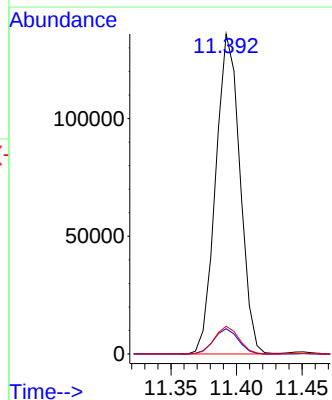
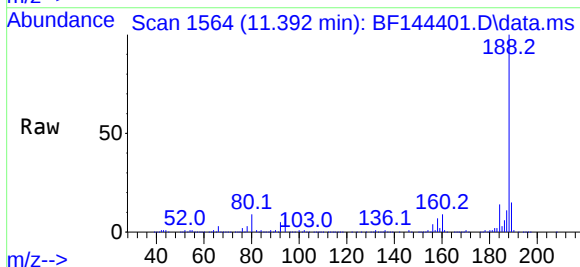
Instrument :
BNA_F
ClientSampleId :
SB-1125-23

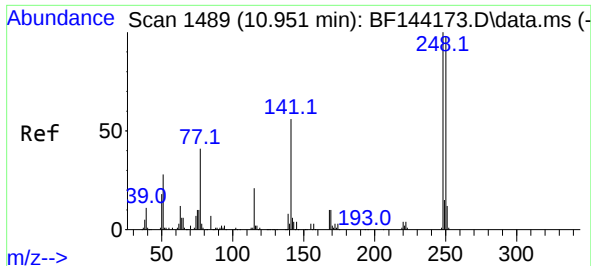
Tgt Ion: 77	Resp: 34133
Ion Ratio	Lower Upper
77 100	
182 128.0	8.1 48.1#
105 155.3	2.0 42.0#
51 40.1	13.9 53.9



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1564
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Tgt Ion: 188	Resp: 174584
Ion Ratio	Lower Upper
188 100	
94 7.9	6.2 9.2
80 8.7	6.9 10.3

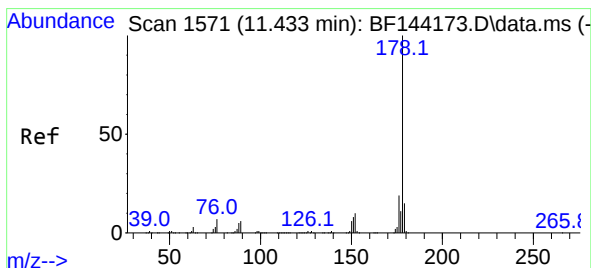
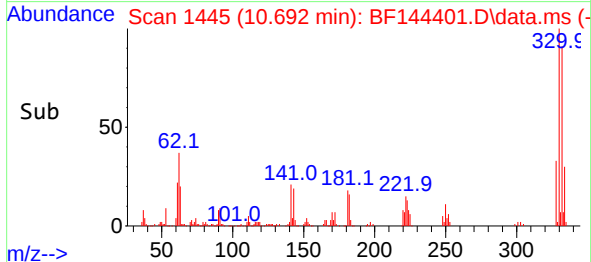
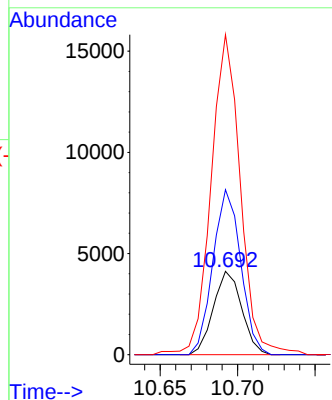
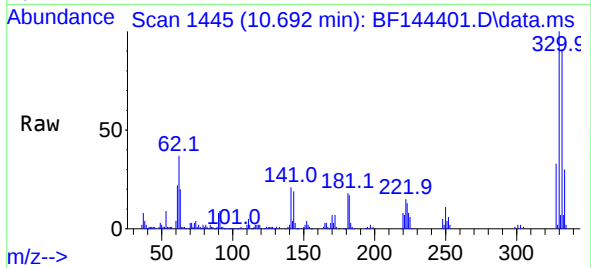




#67
4-Bromophenyl-phenylether
Concen: 2.353 ng
RT: 10.692 min Scan# 1445
Delta R.T. -0.253 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

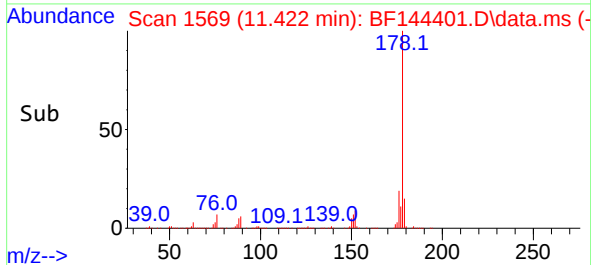
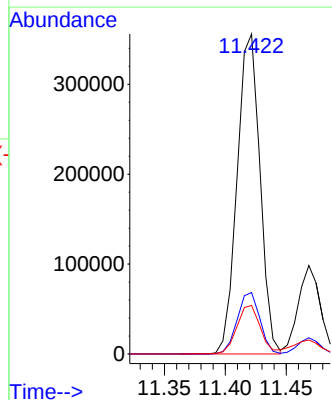
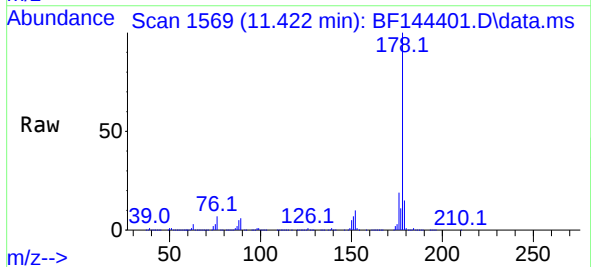
Instrument :
BNA_F
ClientSampleId :
SB-1125-23

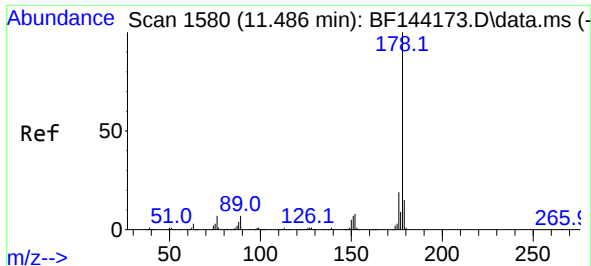
Tgt Ion:248 Resp: 5244
Ion Ratio Lower Upper
248 100
250 198.0 78.4 117.6#
141 384.2 45.1 67.7#



#71
Phenanthrene
Concen: 53.452 ng
RT: 11.422 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Tgt Ion:178 Resp: 464618
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.1 12.2 18.4

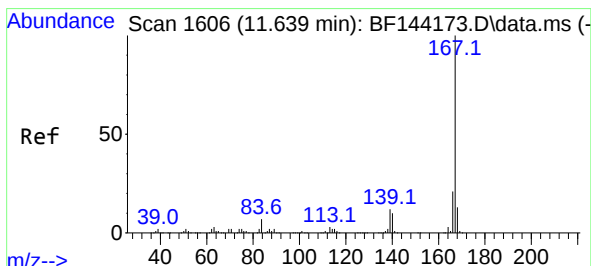
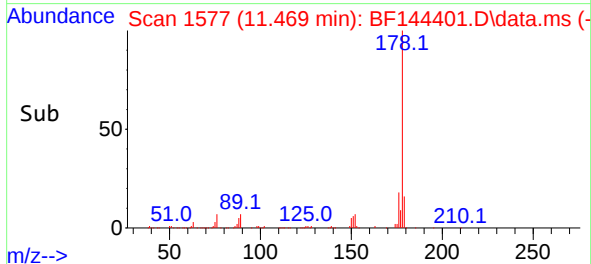
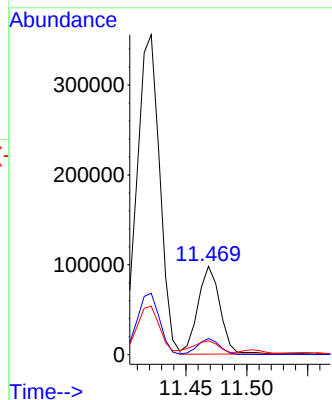
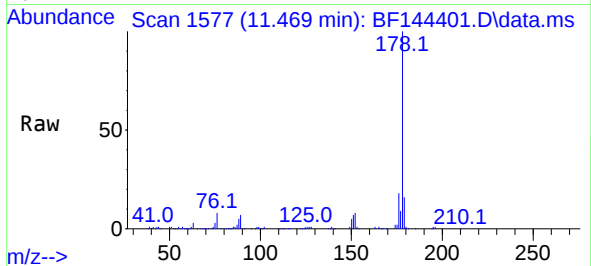




#72
 Anthracene
 Concen: 13.934 ng
 RT: 11.469 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF144401.D
 Acq: 02 Dec 2025 14:21

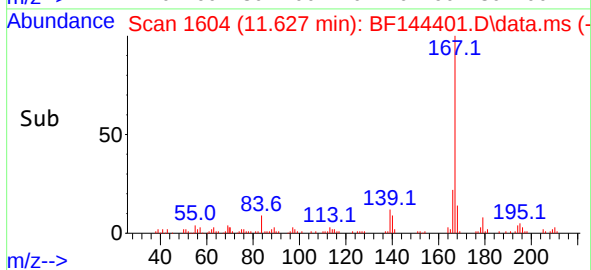
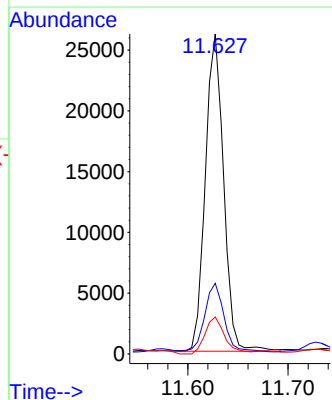
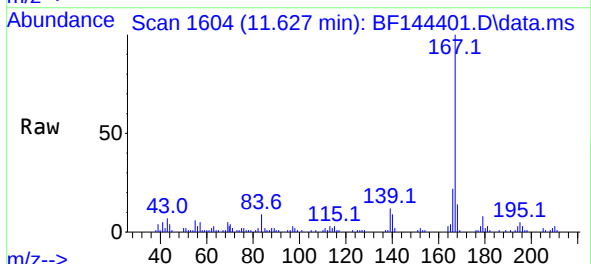
Instrument :
 BNA_F
 ClientSampleId :
 SB-1125-23

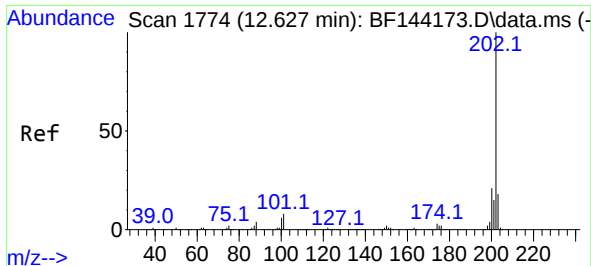
Tgt Ion:178 Resp: 123155
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.3 22.9
 179 15.7 12.0 18.0



#73
 Carbazole
 Concen: 4.407 ng
 RT: 11.627 min Scan# 1604
 Delta R.T. -0.012 min
 Lab File: BF144401.D
 Acq: 02 Dec 2025 14:21

Tgt Ion:167 Resp: 33124
 Ion Ratio Lower Upper
 167 100
 166 22.1 17.2 25.8
 139 11.6 9.9 14.9

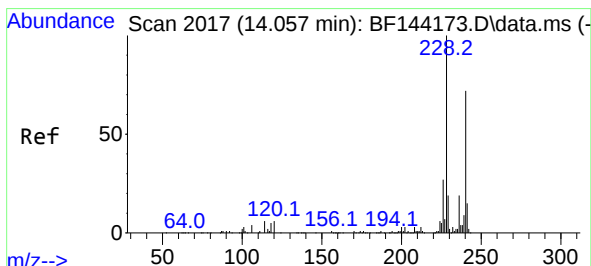
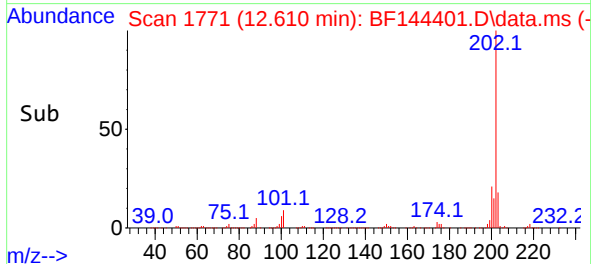
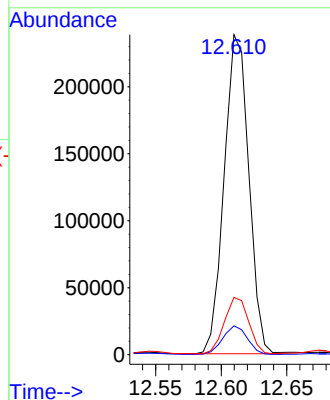
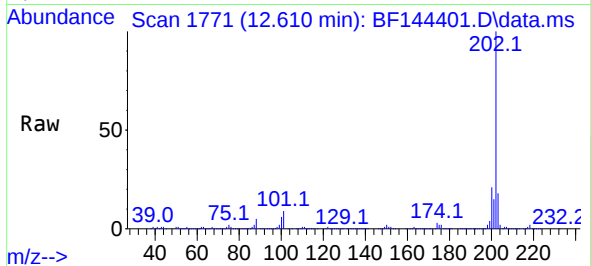




#75
Fluoranthene
Concen: 34.623 ng
RT: 12.610 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

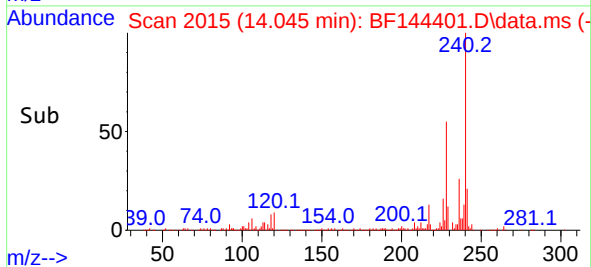
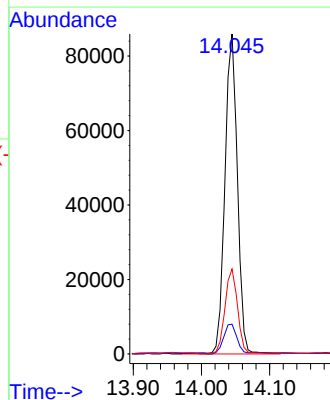
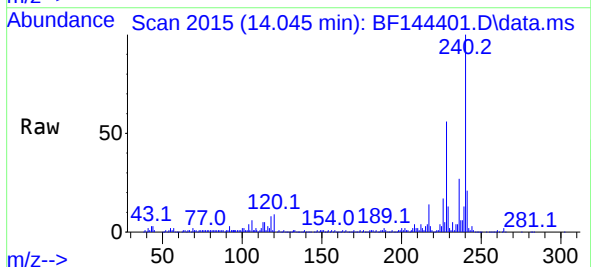
Instrument :
BNA_F
ClientSampleId :
SB-1125-23

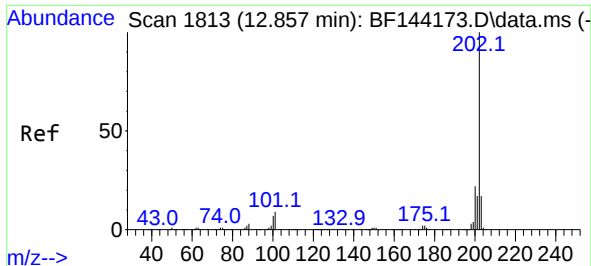
Tgt Ion:202 Resp: 310882
Ion Ratio Lower Upper
202 100
101 9.0 0.0 27.9
203 17.9 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Tgt Ion:240 Resp: 109456
Ion Ratio Lower Upper
240 100
120 9.3 6.6 10.0
236 26.6 21.4 32.2

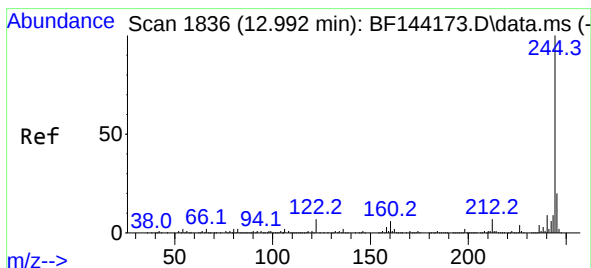
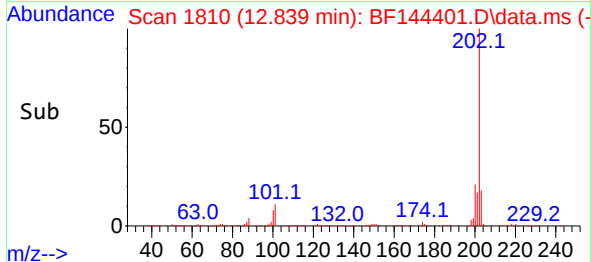
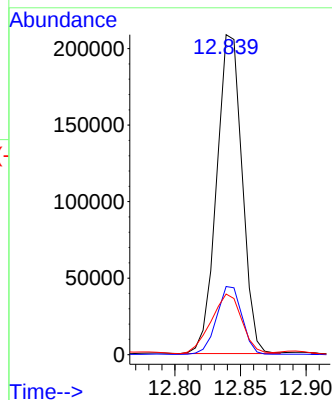
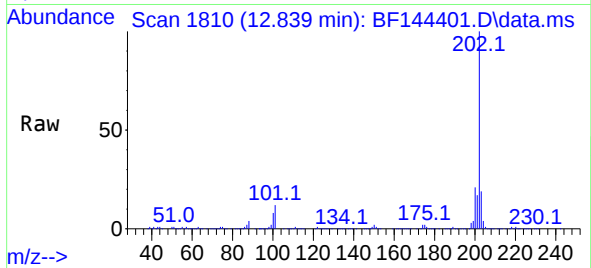




#78
Pyrene
Concen: 31.896 ng
RT: 12.839 min Scan# 1810
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

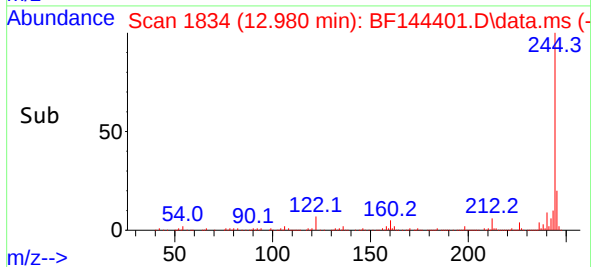
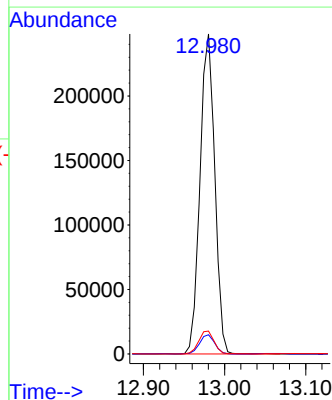
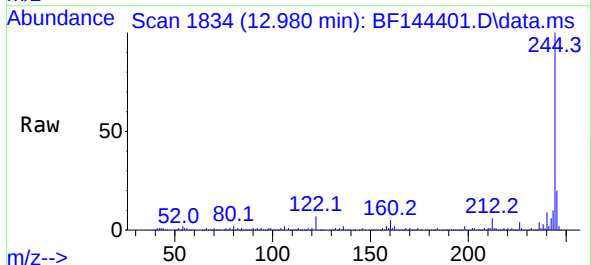
Instrument :
BNA_F
ClientSampleId :
SB-1125-23

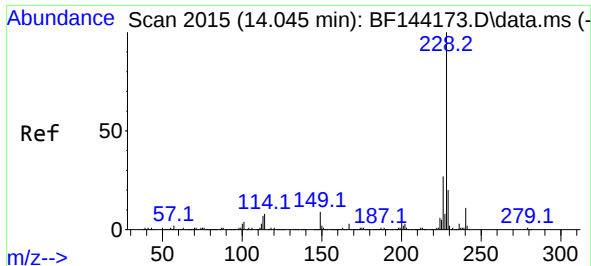
Tgt Ion:202 Resp: 281489
Ion Ratio Lower Upper
202 100
200 21.3 17.2 25.8
203 19.0 13.7 20.5



#79
Terphenyl-d14
Concen: 45.528 ng
RT: 12.980 min Scan# 1834
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Tgt Ion:244 Resp: 313734
Ion Ratio Lower Upper
244 100
212 6.0 5.3 7.9
122 7.2 5.6 8.4

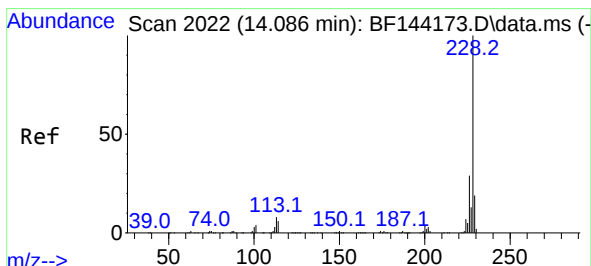
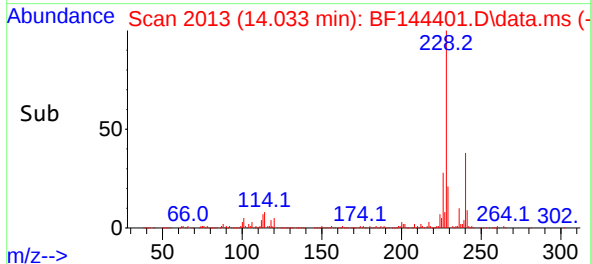
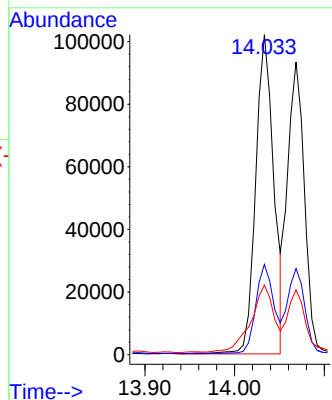
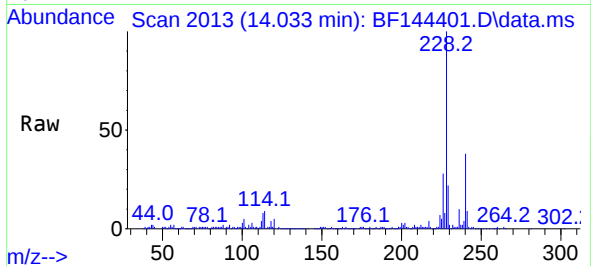




#81
Benzo(a)anthracene
Concen: 18.897 ng
RT: 14.033 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

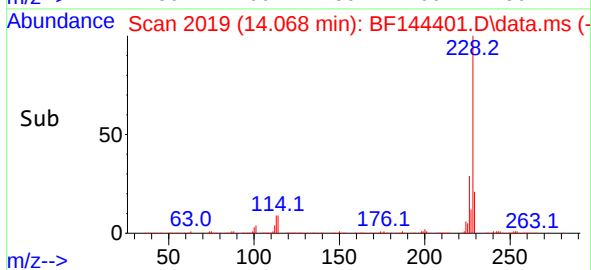
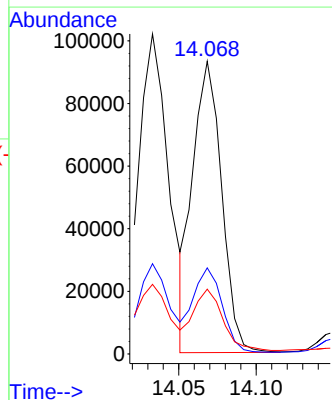
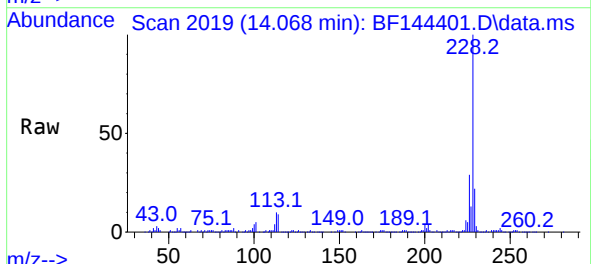
Instrument :
BNA_F
ClientSampleId :
SB-1125-23

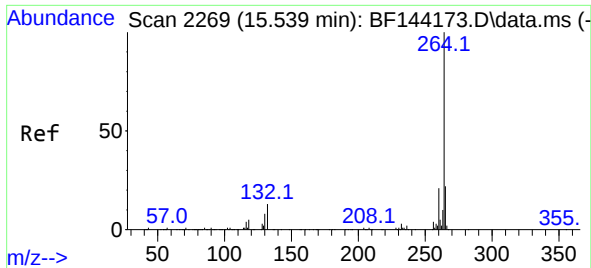
Tgt Ion:228 Resp: 143358
Ion Ratio Lower Upper
228 100
226 28.2 21.8 32.8
229 21.8 15.8 23.6



#83
Chrysene
Concen: 17.229 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Tgt Ion:228 Resp: 120652
Ion Ratio Lower Upper
228 100
226 29.4 22.9 34.3
229 22.1 15.0 22.6

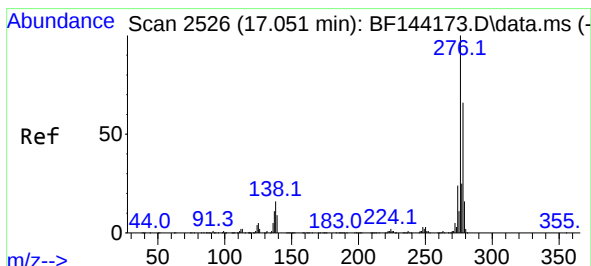
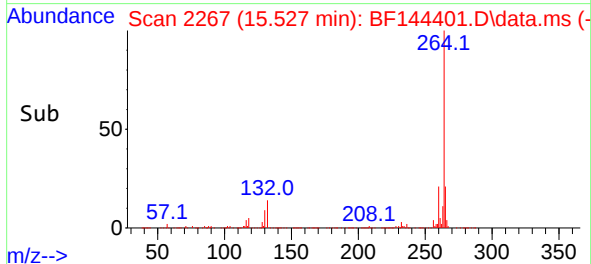
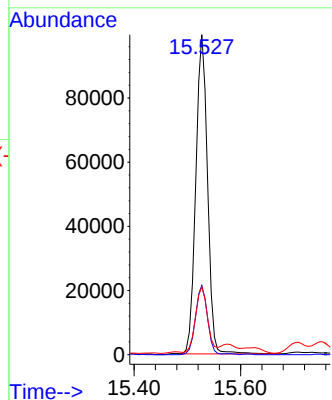
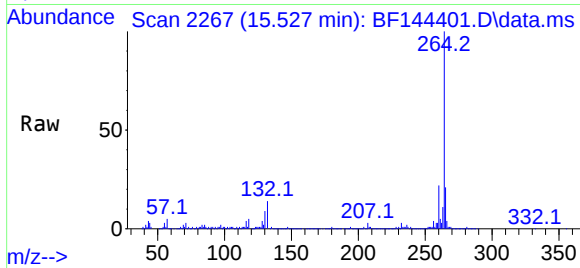




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

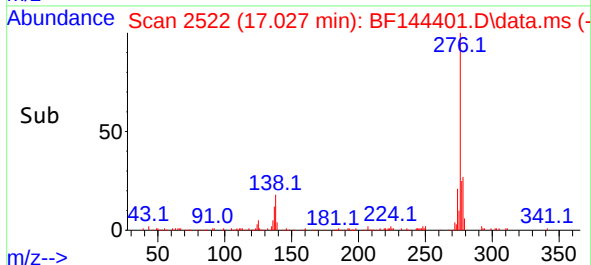
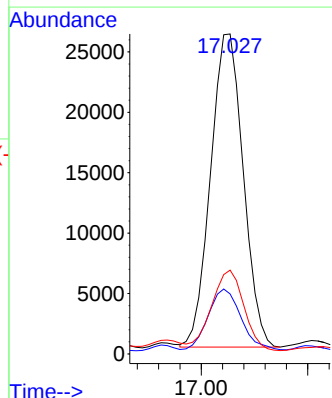
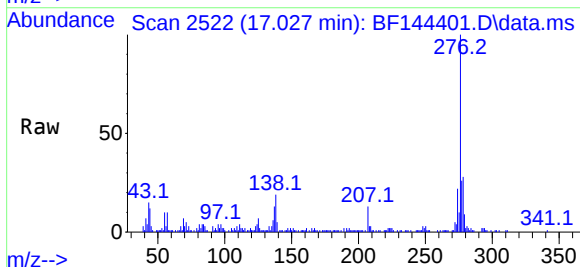
Instrument :
BNA_F
ClientSampleId :
SB-1125-23

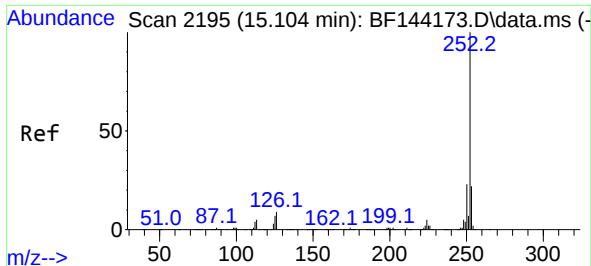
Tgt Ion:264 Resp: 151141
Ion Ratio Lower Upper
264 100
260 21.6 17.1 25.7
265 21.2 17.4 26.0



#87
Indeno(1,2,3-cd)pyrene
Concen: 5.088 ng
RT: 17.027 min Scan# 2522
Delta R.T. -0.006 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Tgt Ion:276 Resp: 55200
Ion Ratio Lower Upper
276 100
138 19.6 13.9 20.9
277 25.5 19.8 29.6

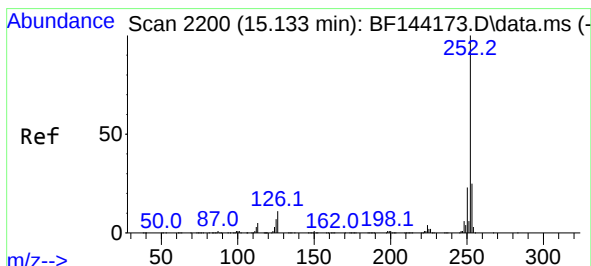
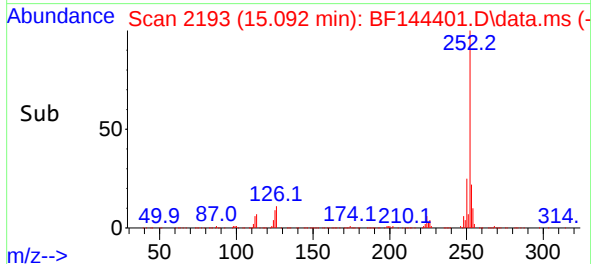
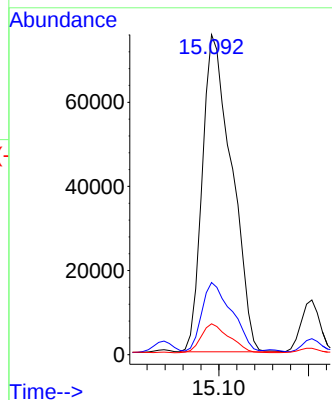
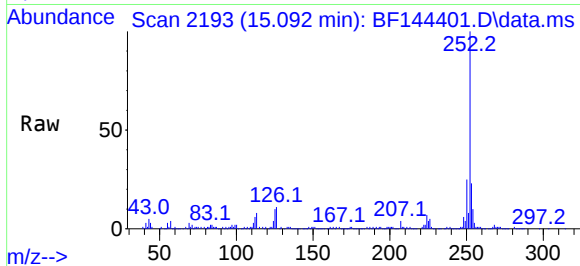




#88
Benzo(b)fluoranthene
Concen: 19.970 ng
RT: 15.092 min Scan# 2193
Delta R.T. -0.006 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

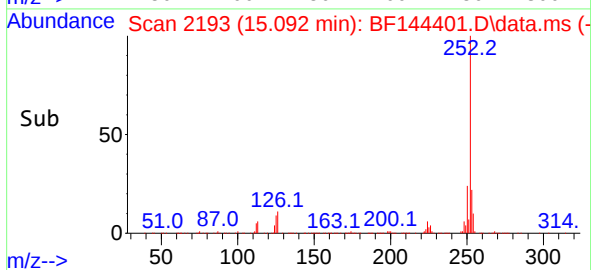
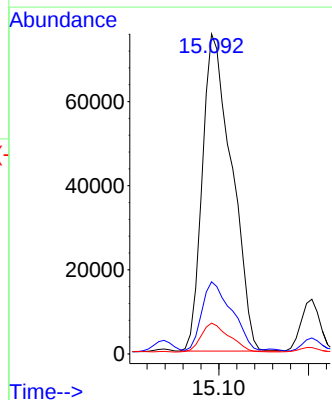
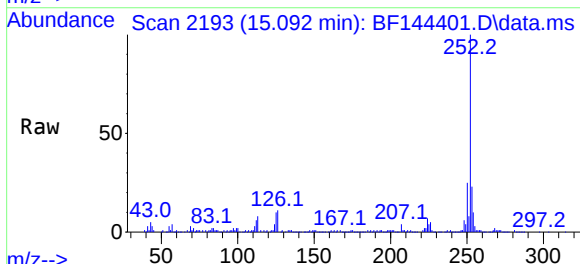
Instrument :
BNA_F
ClientSampleId :
SB-1125-23

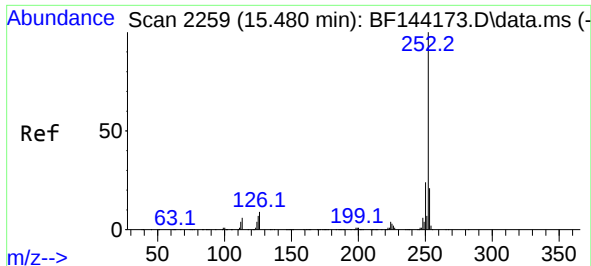
Tgt Ion:252 Resp: 171595
Ion Ratio Lower Upper
252 100
253 22.6 17.4 26.2
125 9.6 5.3 7.9#



#89
Benzo(k)fluoranthene
Concen: 21.335 ng
RT: 15.092 min Scan# 2193
Delta R.T. -0.035 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Tgt Ion:252 Resp: 171595
Ion Ratio Lower Upper
252 100
253 22.6 18.0 27.0
125 9.6 5.4 8.2#

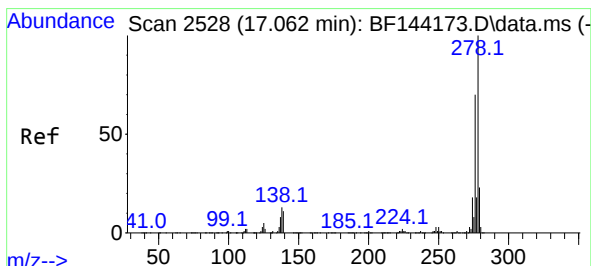
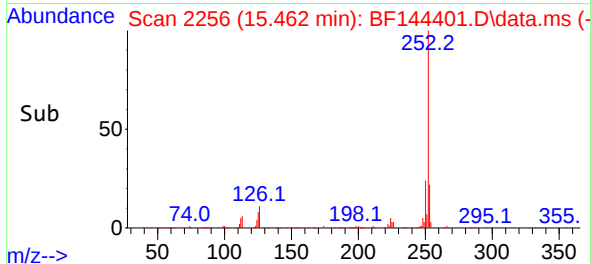
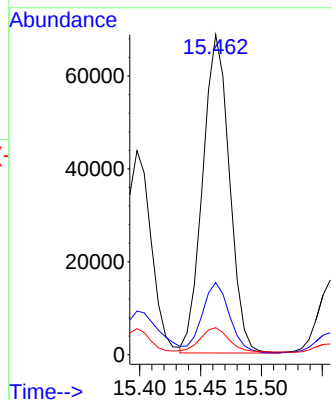
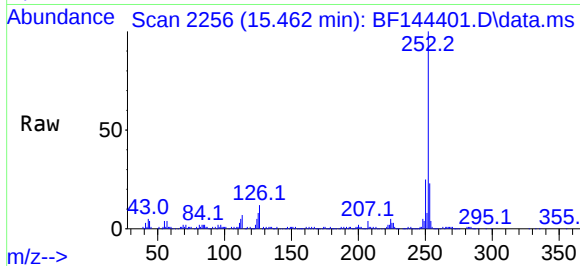




#90
Benzo(a)pyrene
Concen: 13.243 ng
RT: 15.462 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

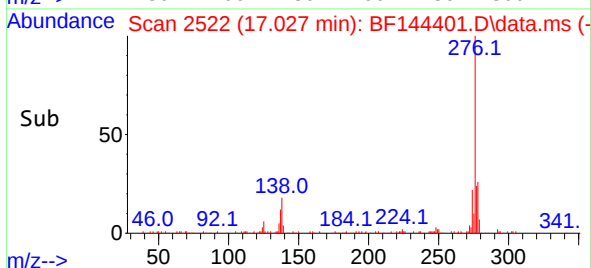
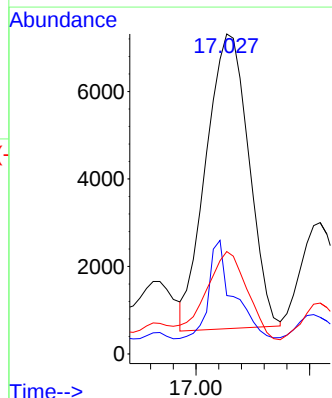
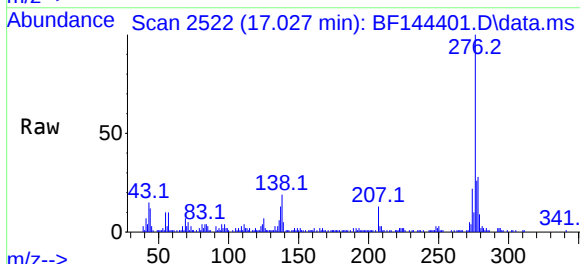
Instrument :
BNA_F
ClientSampleId :
SB-1125-23

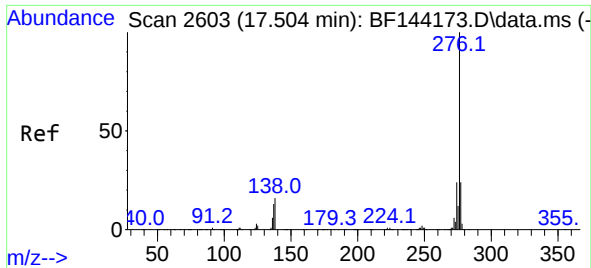
Tgt Ion:252 Resp: 104982
Ion Ratio Lower Upper
252 100
253 22.5 16.7 25.1
125 8.5 5.7 8.5



#91
Dibenzo(a,h)anthracene
Concen: 2.021 ng
RT: 17.027 min Scan# 2522
Delta R.T. -0.024 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

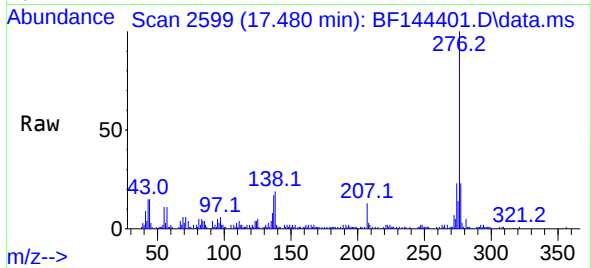
Tgt Ion:278 Resp: 17611
Ion Ratio Lower Upper
278 100
139 18.3 9.1 13.7#
279 32.0 18.2 27.4#





#92
 Benzo(g,h,i)perylene
 Concen: 5.877 ng
 RT: 17.480 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BF144401.D
 Acq: 02 Dec 2025 14:21

Instrument :
 BNA_F
 ClientSampleId :
 SB-1125-23



Tgt Ion:276 Resp: 50569
 Ion Ratio Lower Upper
 276 100
 277 22.9 19.0 28.4
 138 19.1 12.9 19.3

