

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102425\
 Data File : BF144071.D
 Acq On : 24 Oct 2025 20:15
 Operator : RC/JU
 Sample : Q3412-01
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 27 10:56:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 24 17:30:25 2025
 Response via : Initial Calibration

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

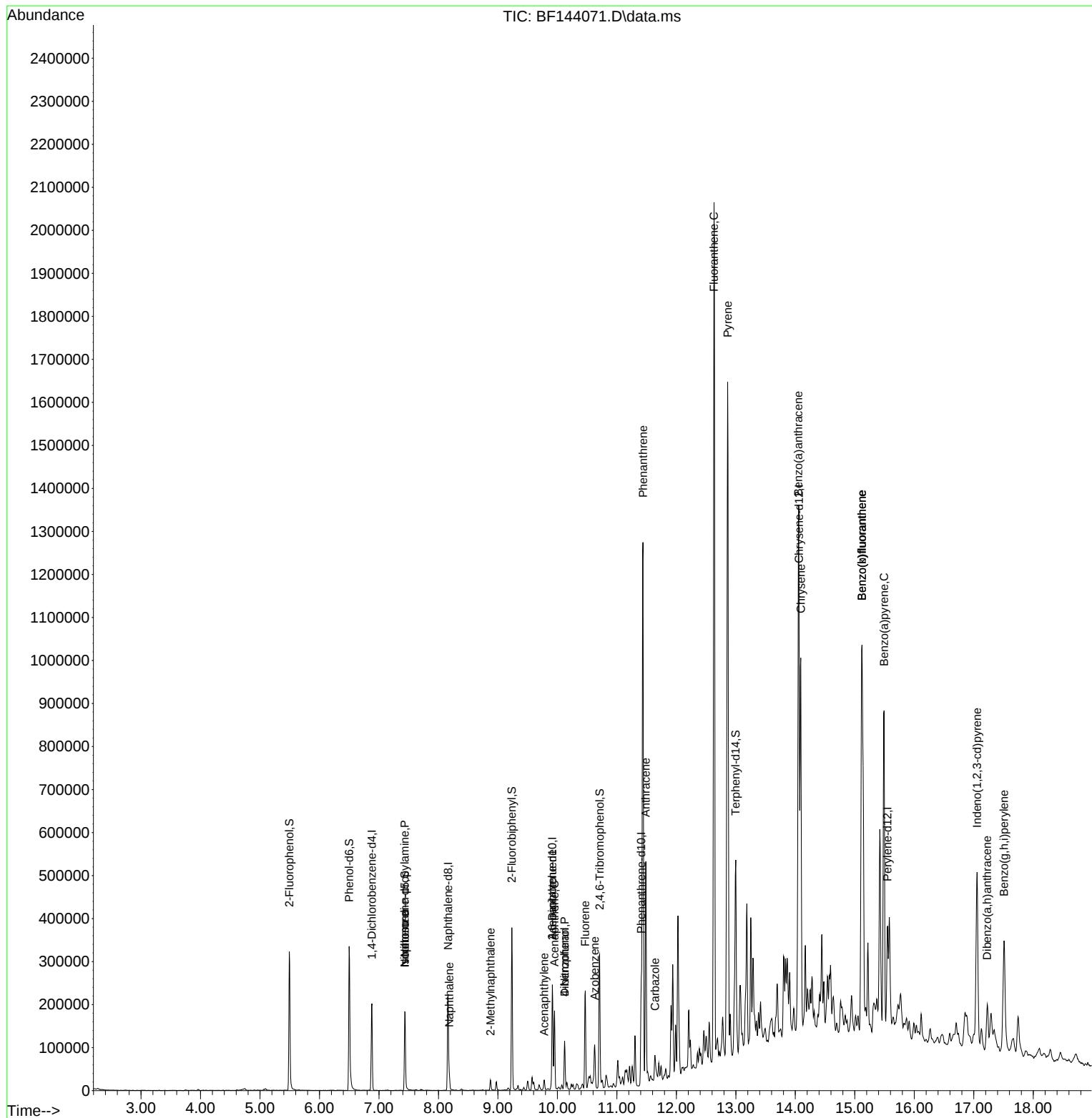
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	42114	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	147433	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	73123	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	125609	20.000	ng	0.00
76) Chrysene-d12	14.063	240	110481	20.000	ng	0.00
86) Perylene-d12	15.551	264	150663	20.000	ng	# 0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	126230	47.421	ng	0.00
7) Phenol-d6	6.498	99	140574	47.818	ng	0.00
23) Nitrobenzene-d5	7.434	82	81322	30.220	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	47758	51.273	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	166277	31.999	ng	0.00
79) Terphenyl-d14	12.998	244	225045	35.610	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.434	70	11766	6.189	ng	# 72
25) Isophorone	7.434	82	80260	17.059	ng	# 66
31) Naphthalene	8.181	128	18405	2.645	ng	99
37) 2-Methylnaphthalene	8.875	142	10221	2.228	ng	98
49) Acenaphthylene	9.781	152	13047	2.206	ng	100
51) 2,6-Dinitrotoluene	9.916	165	11545	12.184	ng	# 22
52) Acenaphthene	9.951	154	52976	13.415	ng	92
55) Dibenzofuran	10.122	168	56685	10.340	ng	96
56) 4-Nitrophenol	10.122	139	22269	31.216	ng	# 3
58) Fluorene	10.469	166	91550	21.917	ng	98
63) Azobenzene	10.628	77	12209	2.862	ng	# 1
71) Phenanthrene	11.439	178	717117	114.928	ng	99
72) Anthracene	11.486	178	291921	45.289	ng	98
73) Carbazole	11.639	167	30599	5.577	ng	98
75) Fluoranthene	12.633	202	1322379	191.825	ng	99
78) Pyrene	12.863	202	1022994	128.795	ng	97
81) Benzo(a)anthracene	14.051	228	732736	98.138	ng	97
83) Chrysene	14.092	228	461545	65.875	ng	97
87) Indeno(1,2,3-cd)pyrene	17.057	276	340390	32.907	ng	97
88) Benzo(b)fluoranthene	15.121	252	984946	115.638	ng	97
89) Benzo(k)fluoranthene	15.121	252	984946	125.335	ng	98
90) Benzo(a)pyrene	15.492	252	517469	67.720	ng	95
91) Dibenzo(a,h)anthracene	17.227	278	82375	10.061	ng	94
92) Benzo(g,h,i)perylene	17.509	276	265599	32.264	ng	98

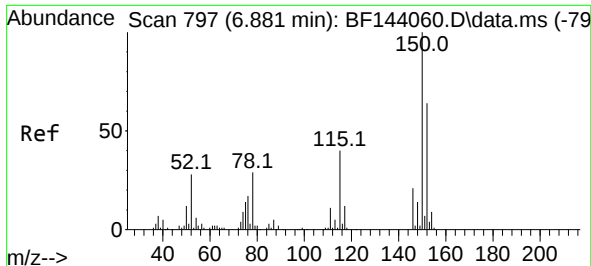
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102425\
Data File : BF144071.D
Acq On : 24 Oct 2025 20:15
Operator : RC/JU
Sample : Q3412-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :

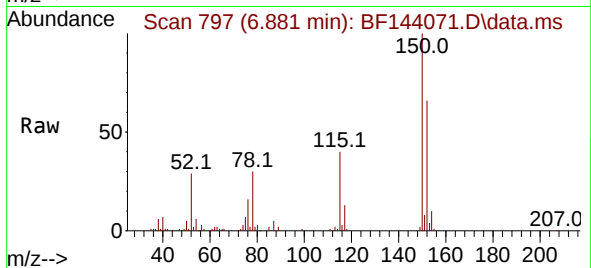
Quant Time: Oct 27 10:56:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 24 17:30:25 2025
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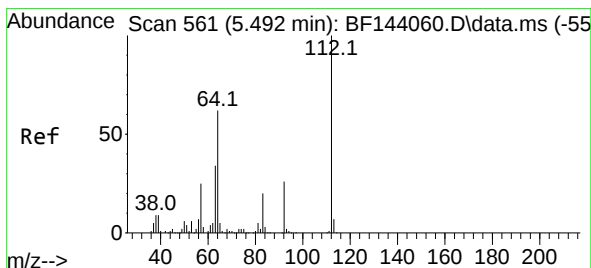
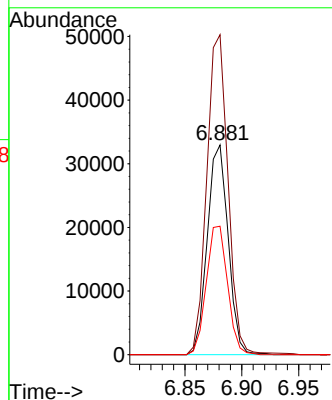
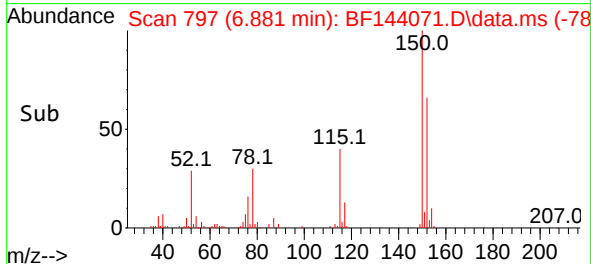


#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.881 min Scan# 797
 Delta R.T. -0.000 min
 Lab File: BF144071.D
 Acq: 24 Oct 2025 20:15

Instrument :
 BNA_F
 ClientSampleId :

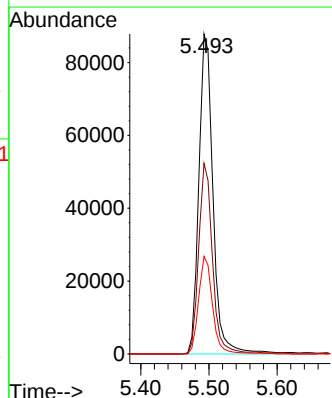
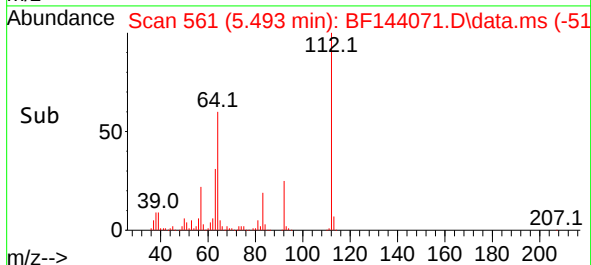
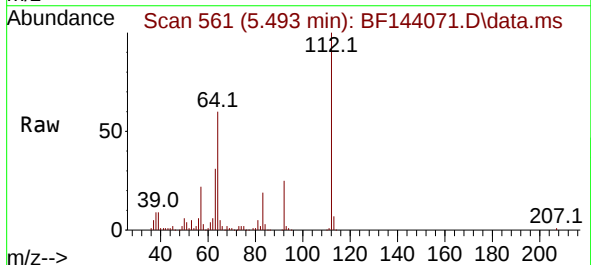


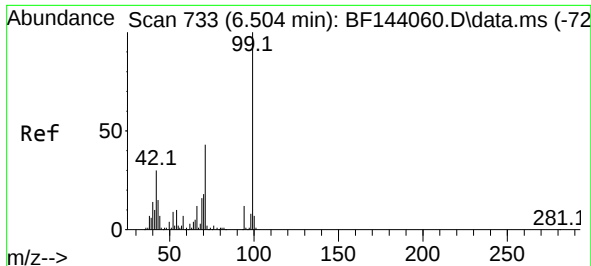
Tgt Ion:152 Resp: 42114
 Ion Ratio Lower Upper
 152 100
 150 152.5 124.4 186.6
 115 61.3 49.4 74.0



#5
 2-Fluorophenol
 Concen: 47.421 ng
 RT: 5.493 min Scan# 561
 Delta R.T. 0.000 min
 Lab File: BF144071.D
 Acq: 24 Oct 2025 20:15

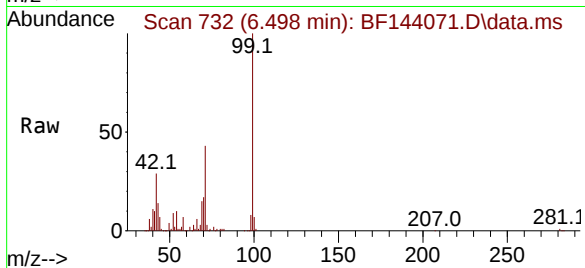
Tgt Ion:112 Resp: 126230
 Ion Ratio Lower Upper
 112 100
 64 59.6 49.8 74.8
 63 30.5 27.4 41.2



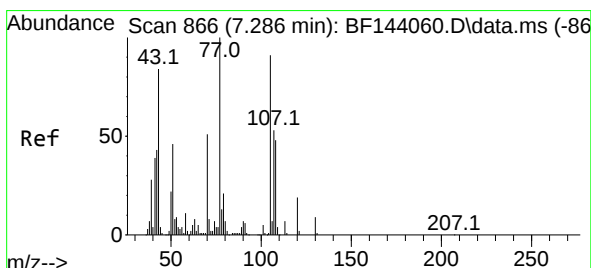
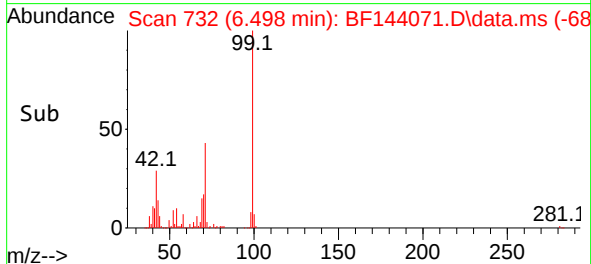
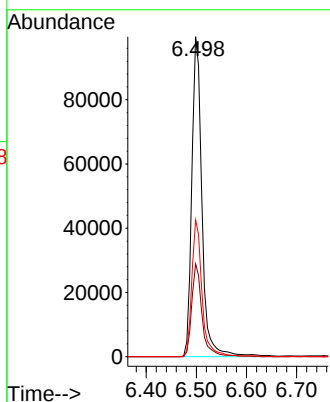


#7
Phenol-d6
Concen: 47.818 ng
RT: 6.498 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

Instrument :
BNA_F
ClientSampleId :

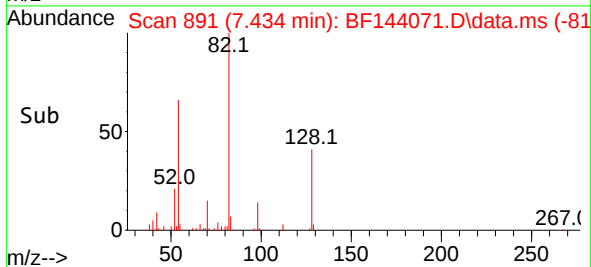
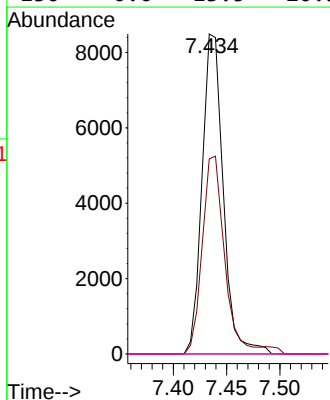
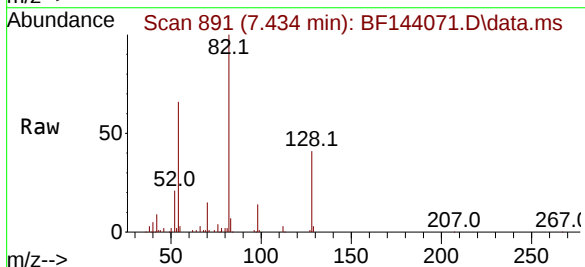


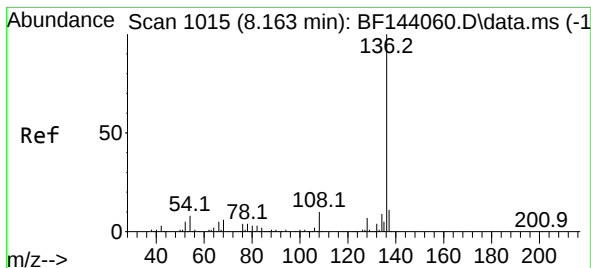
Tgt Ion: 99 Resp: 140574
Ion Ratio Lower Upper
99 100
42 29.0 23.9 35.9
71 42.7 34.4 51.6



#19
n-Nitroso-di-n-propylamine
Concen: 6.189 ng
RT: 7.434 min Scan# 891
Delta R.T. 0.147 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

Tgt Ion: 70 Resp: 11766
Ion Ratio Lower Upper
70 100
42 61.0 67.4 101.0#
101 0.0 7.1 10.7#
130 0.0 13.5 20.3#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.163 min Scan# 1015

Delta R.T. 0.000 min

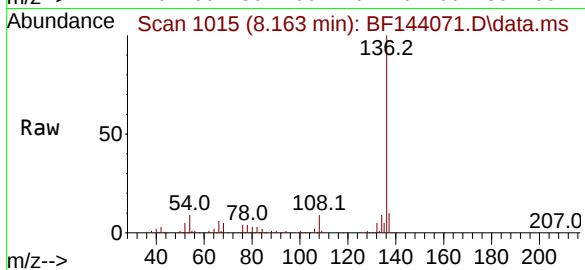
Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

Instrument :

BNA_F

ClientSampleId :



Tgt Ion:136 Resp: 147433

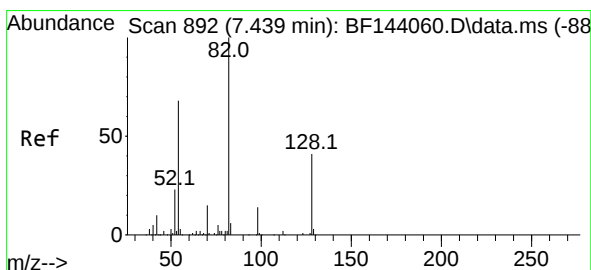
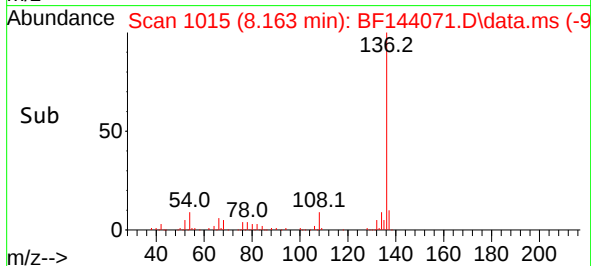
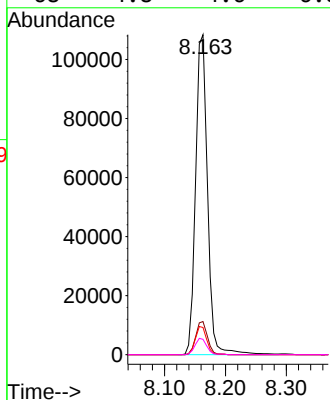
Ion Ratio Lower Upper

136 100

137 10.4 8.6 13.0

54 8.5 6.6 9.8

68 4.8 4.6 6.8



#23

Nitrobenzene-d5

Concen: 30.220 ng

RT: 7.434 min Scan# 891

Delta R.T. -0.006 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

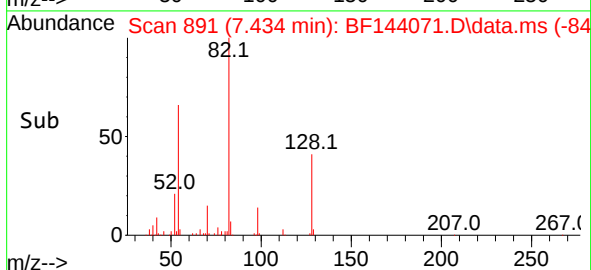
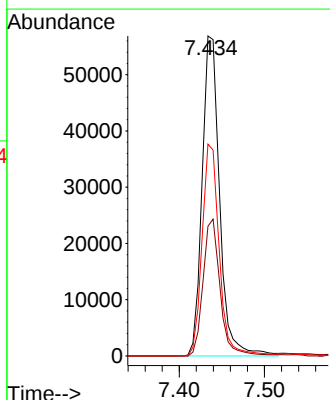
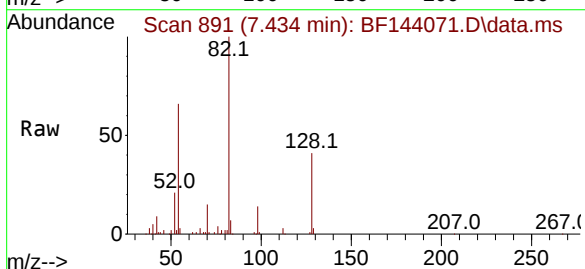
Tgt Ion: 82 Resp: 81322

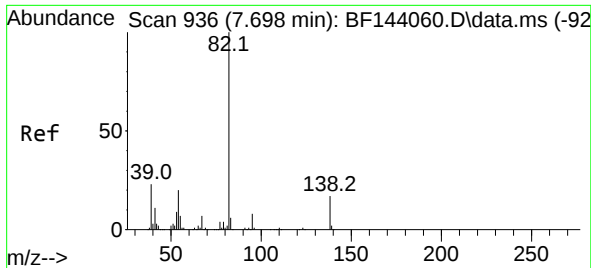
Ion Ratio Lower Upper

82 100

128 40.6 32.4 48.6

54 66.2 54.0 81.0

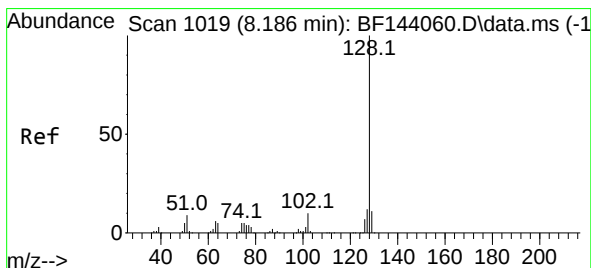
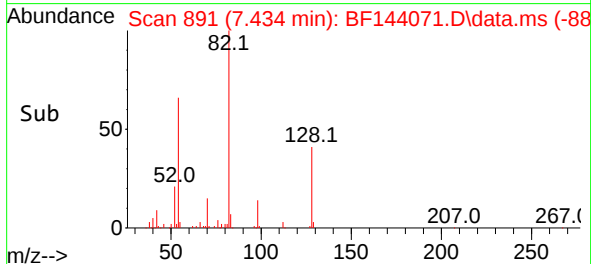
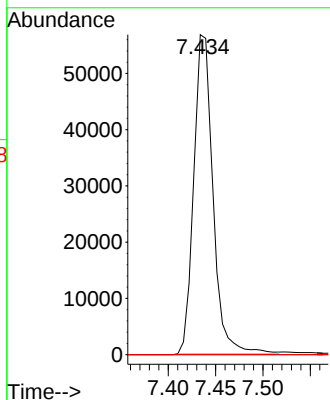
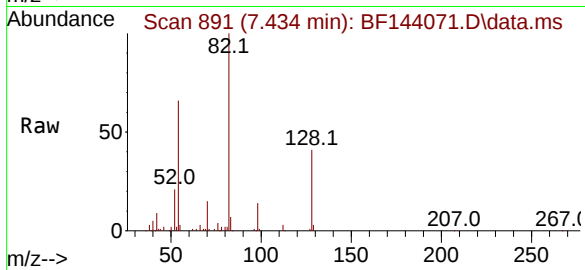




#25
Isophorone
Concen: 17.059 ng
RT: 7.434 min Scan# 891
Delta R.T. -0.265 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

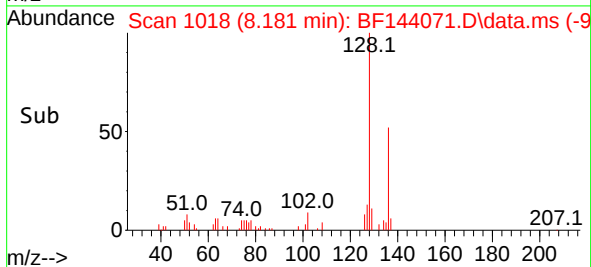
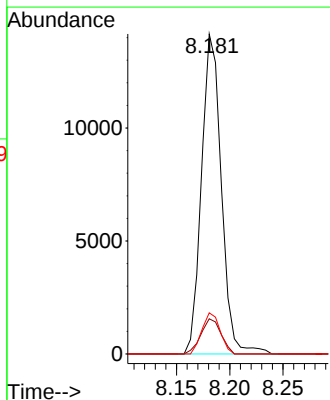
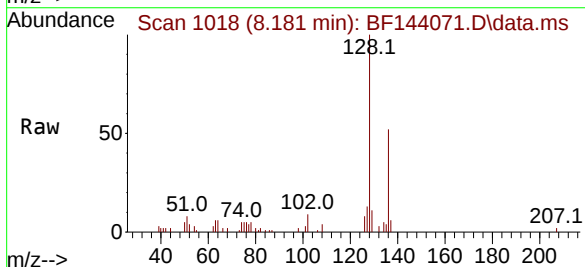
Instrument :
BNA_F
ClientSampleId :

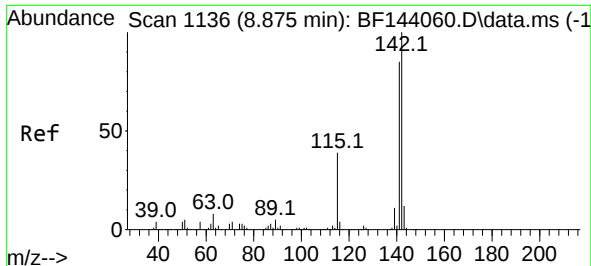
Tgt Ion: 82 Resp: 80260
Ion Ratio Lower Upper
82 100
95 0.0 6.6 9.8#
138 0.0 13.8 20.8#



#31
Naphthalene
Concen: 2.645 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

Tgt Ion:128 Resp: 18405
Ion Ratio Lower Upper
128 100
129 11.0 8.4 12.6
127 12.9 9.9 14.9

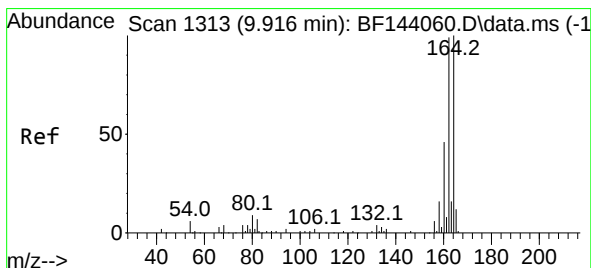
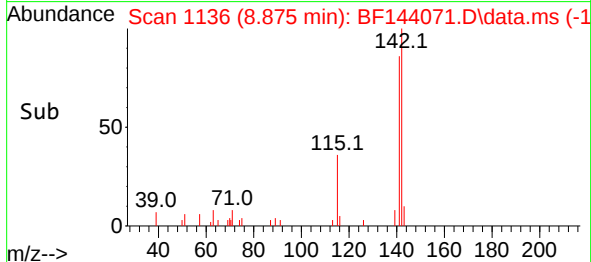
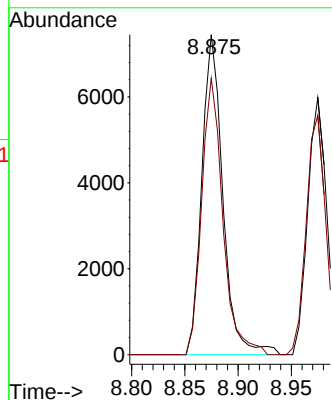
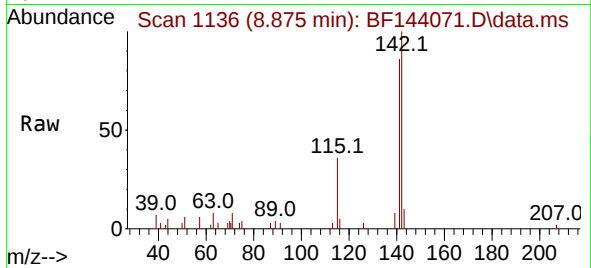




#37
2-Methylnaphthalene
Concen: 2.228 ng
RT: 8.875 min Scan# 1136
Delta R.T. 0.000 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

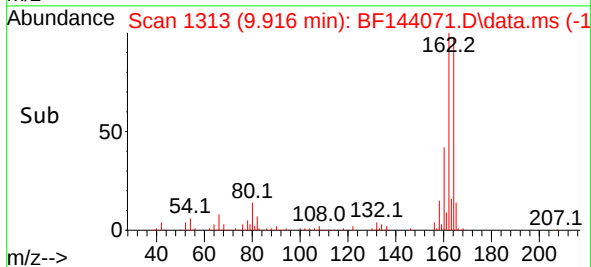
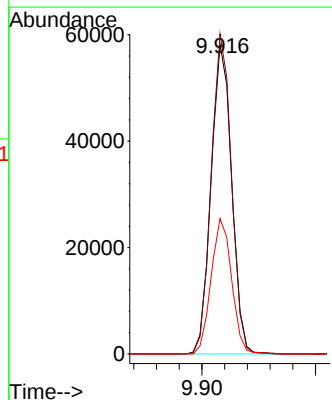
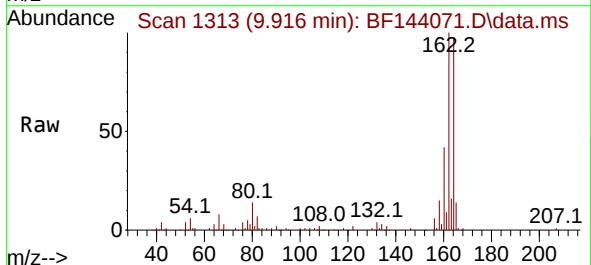
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BNA_F
ClientSampleId :

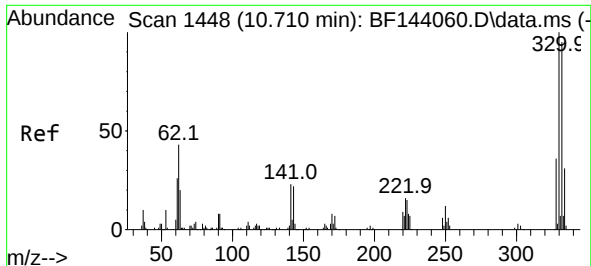
Tgt Ion:142 Resp: 10221
Ion Ratio Lower Upper
142 100
141 86.4 67.6 101.4



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1313
Delta R.T. 0.000 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

Tgt Ion:164 Resp: 73123
Ion Ratio Lower Upper
164 100
162 103.5 79.4 119.2
160 43.8 36.7 55.1





#42

2,4,6-Tribromophenol

Concen: 51.273 ng

RT: 10.710 min Scan# 1448

Delta R.T. 0.000 min

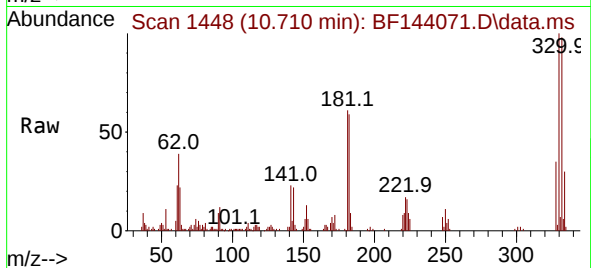
Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

Instrument :

BNA_F

ClientSampleId :



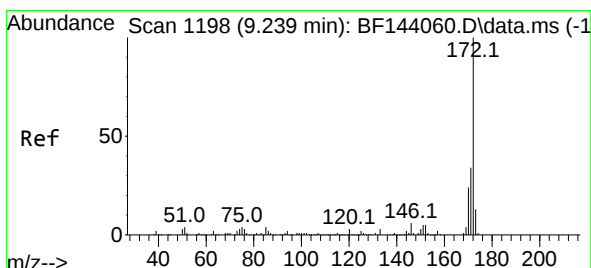
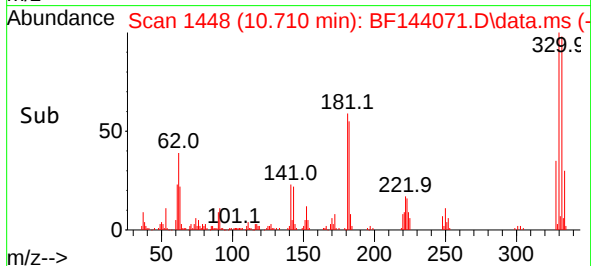
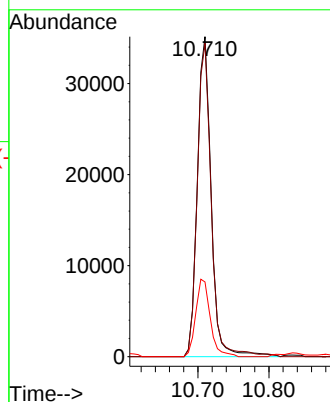
Tgt Ion:330 Resp: 47758

Ion Ratio Lower Upper

330 100

332 98.7 77.0 115.6

141 25.4 19.4 29.0



#45

2-Fluorobiphenyl

Concen: 31.999 ng

RT: 9.234 min Scan# 1197

Delta R.T. -0.006 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

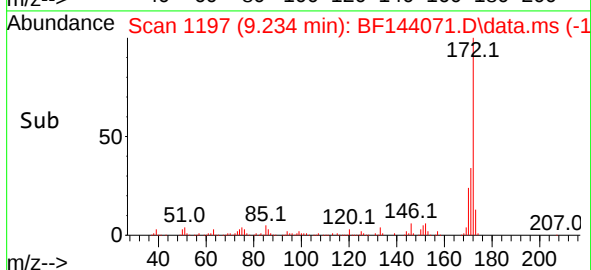
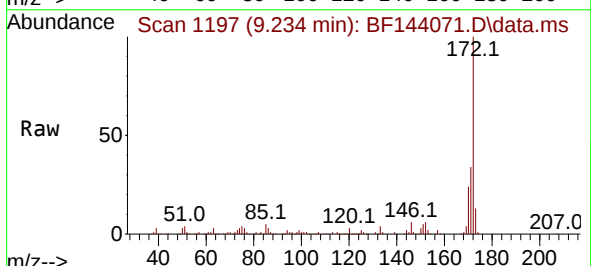
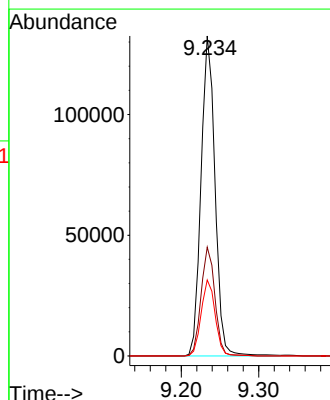
Tgt Ion:172 Resp: 166277

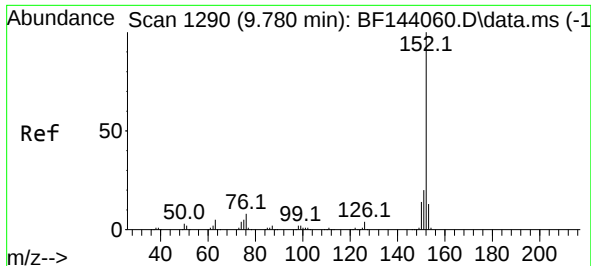
Ion Ratio Lower Upper

172 100

171 34.0 27.5 41.3

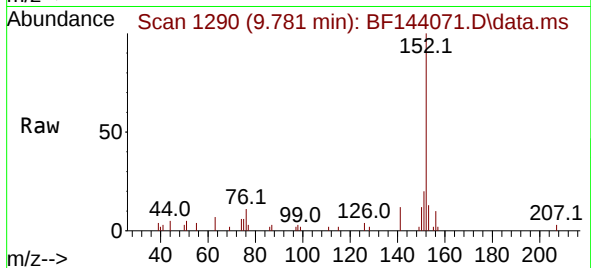
170 23.8 19.0 28.6



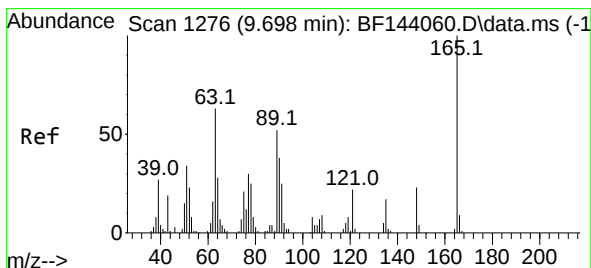
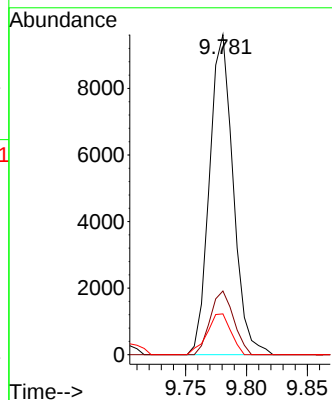
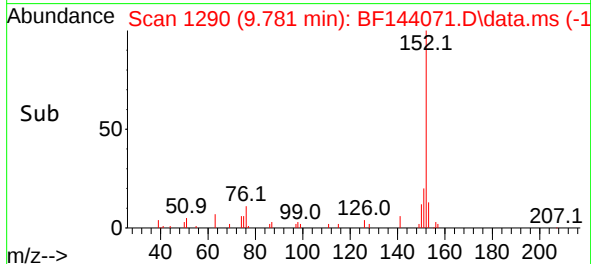


#49
Acenaphthylene
Concen: 2.206 ng
RT: 9.781 min Scan# 1313
Delta R.T. 0.000 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

Instrument :
BNA_F
ClientSampleId :

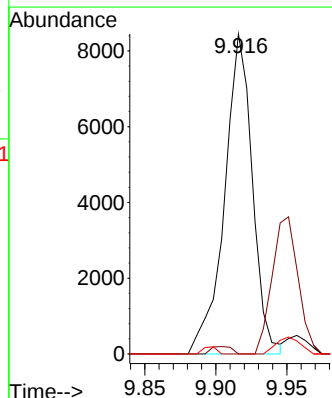
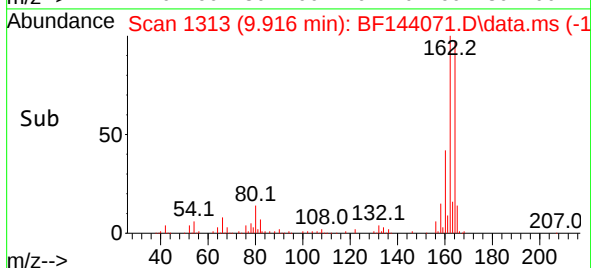
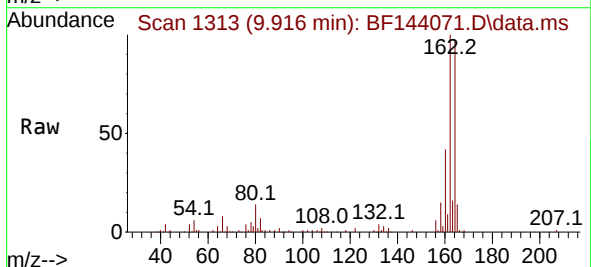


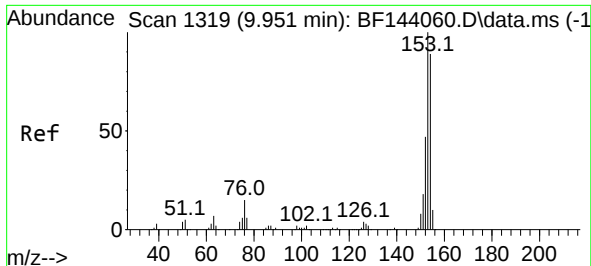
Tgt Ion:152 Resp: 13047
Ion Ratio Lower Upper
152 100
151 19.9 15.9 23.9
153 12.7 10.4 15.6



#51
2,6-Dinitrotoluene
Concen: 12.184 ng
RT: 9.916 min Scan# 1313
Delta R.T. 0.218 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

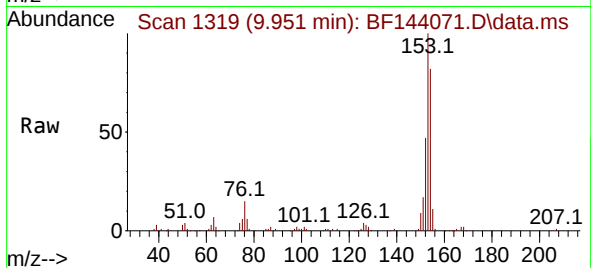
Tgt Ion:165 Resp: 11545
Ion Ratio Lower Upper
165 100
63 0.0 50.4 75.6#
89 0.0 41.4 62.2#



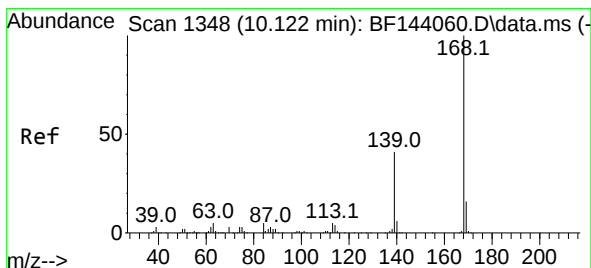
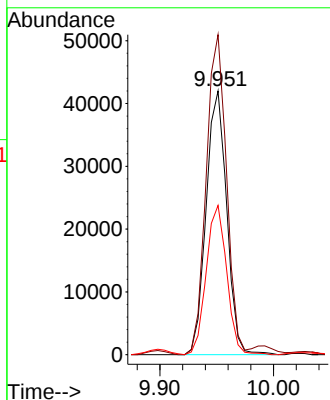
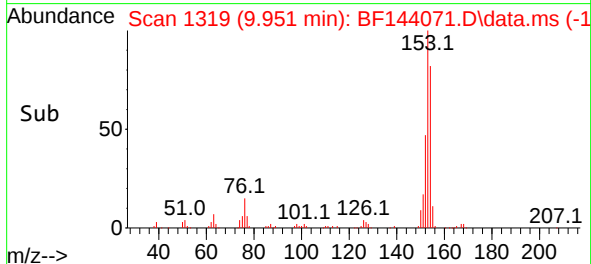


#52
Acenaphthene
Concen: 13.415 ng
RT: 9.951 min Scan# 1319
Delta R.T. 0.000 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

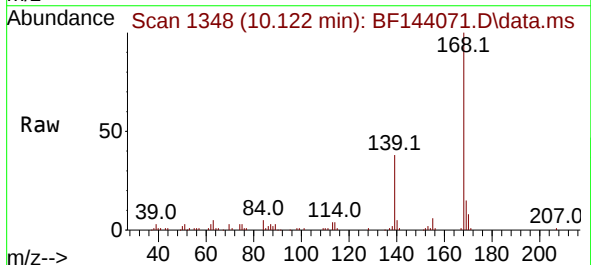
Instrument :
BNA_F
ClientSampleId :



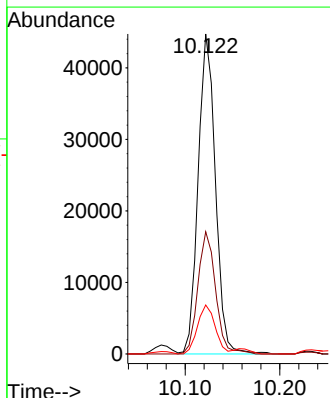
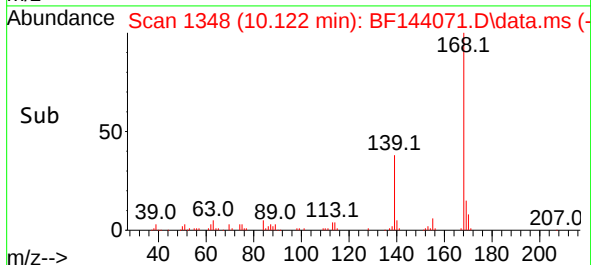
Tgt Ion:154 Resp: 52976
Ion Ratio Lower Upper
154 100
153 121.4 89.9 134.9
152 56.6 42.0 63.0

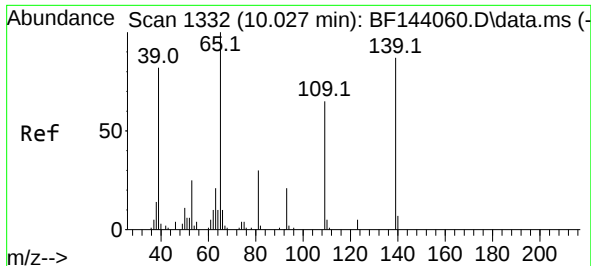


#55
Dibenzofuran
Concen: 10.340 ng
RT: 10.122 min Scan# 1348
Delta R.T. 0.000 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15



Tgt Ion:168 Resp: 56685
Ion Ratio Lower Upper
168 100
139 38.2 33.2 49.8
169 15.3 12.6 19.0

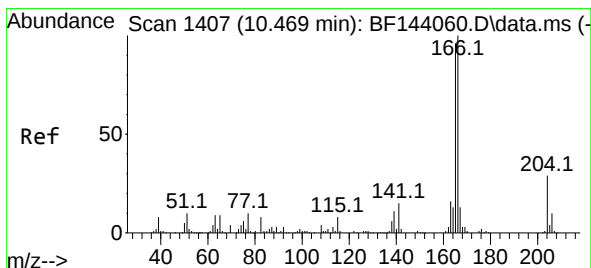
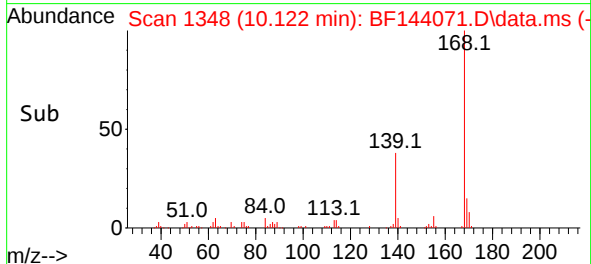
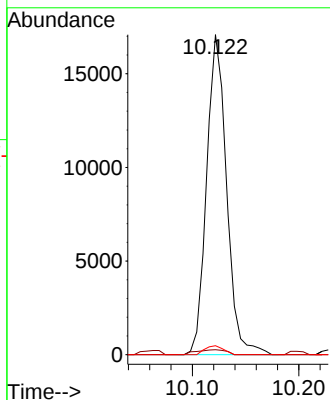
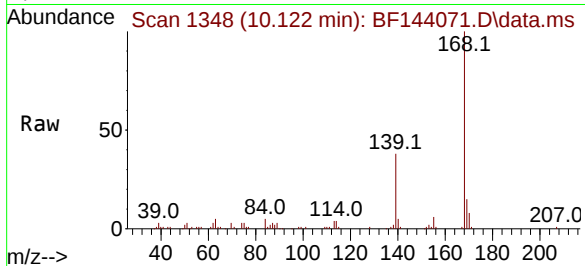




#56
4-Nitrophenol
Concen: 31.216 ng
RT: 10.122 min Scan# 11
Delta R.T. 0.094 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

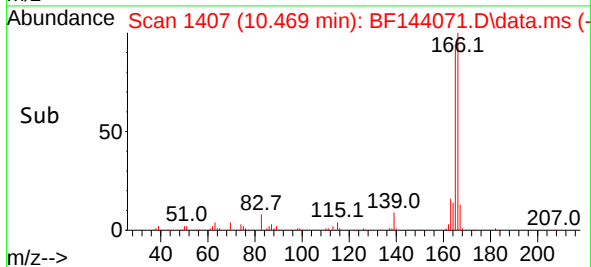
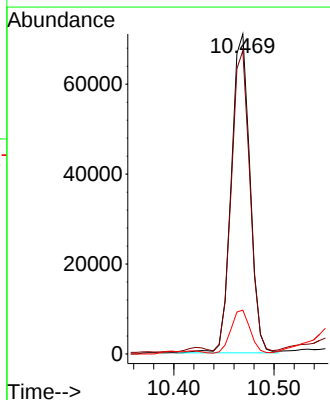
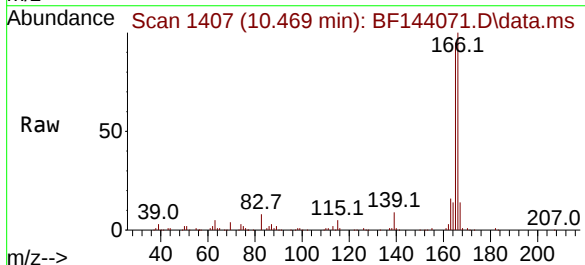
Instrument :
BNA_F
ClientSampleId :

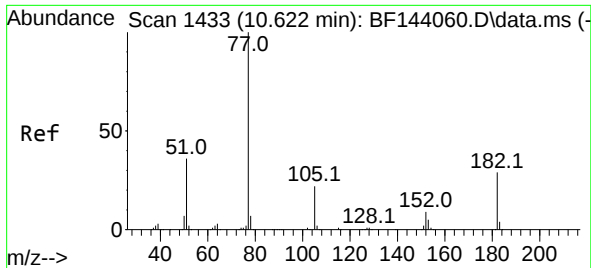
Tgt Ion:139 Resp: 22269
Ion Ratio Lower Upper
139 100
109 1.6 53.8 93.8#
65 2.8 95.9 135.9#



#58
Fluorene
Concen: 21.917 ng
RT: 10.469 min Scan# 1407
Delta R.T. 0.000 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

Tgt Ion:166 Resp: 91550
Ion Ratio Lower Upper
166 100
165 94.7 77.0 115.4
167 13.7 10.2 15.4

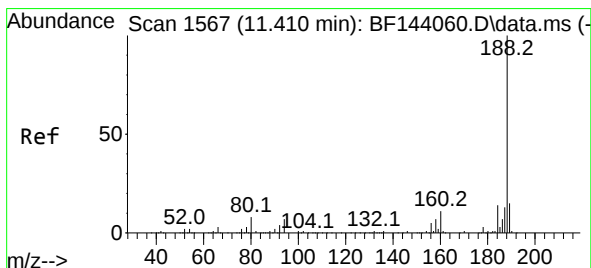
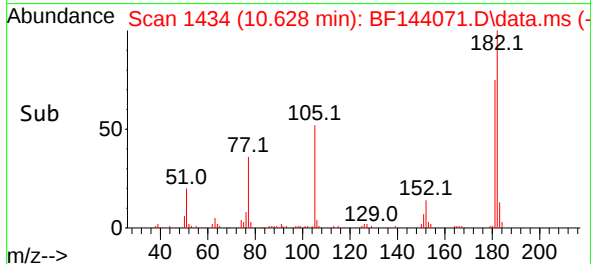
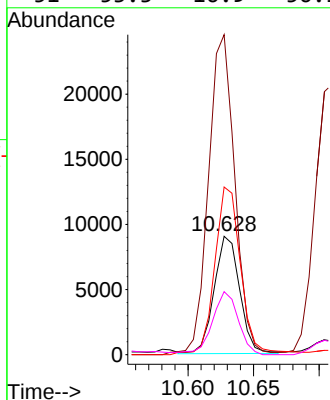
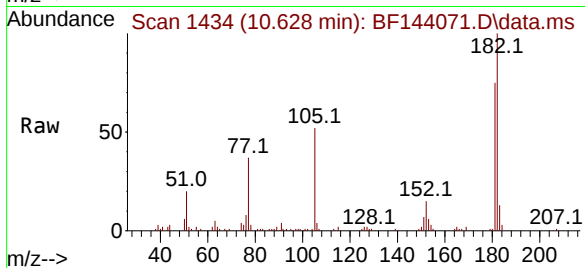




#63
Azobenzene
Concen: 2.862 ng
RT: 10.628 min Scan# 1433
Delta R.T. 0.006 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

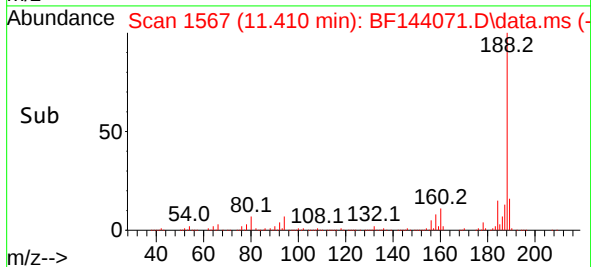
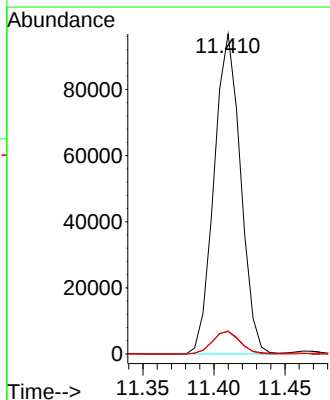
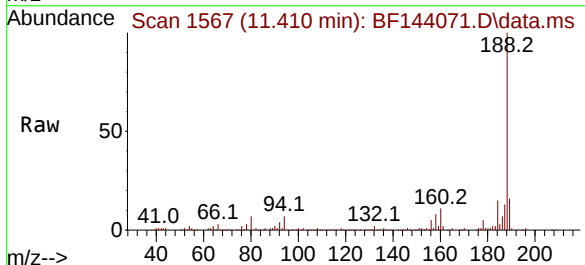
Instrument :
BNA_F
ClientSampleId :

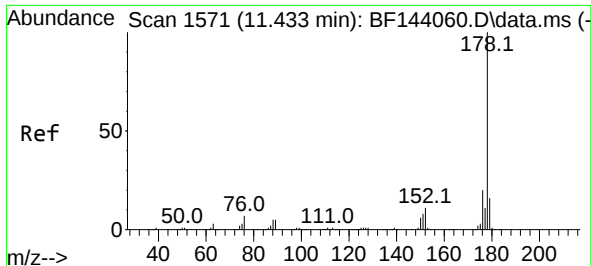
Tgt Ion: 77	Resp: 12209
Ion Ratio	Lower Upper
77 100	
182 270.2	9.0 49.0#
105 141.6	1.4 41.4#
51 53.3	16.9 56.9



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. 0.000 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

Tgt Ion: 188	Resp: 125609
Ion Ratio	Lower Upper
188 100	
94 7.0	5.4 8.0
80 7.2	6.0 9.0

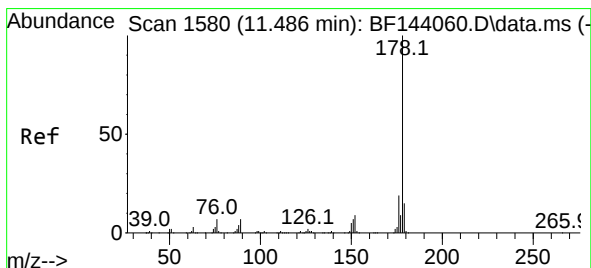
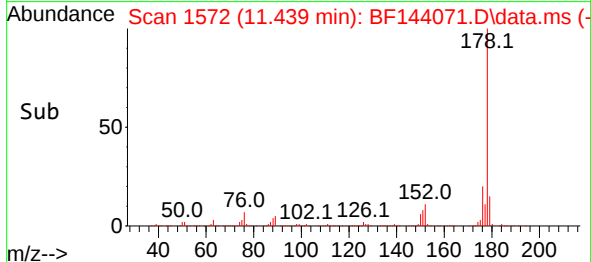
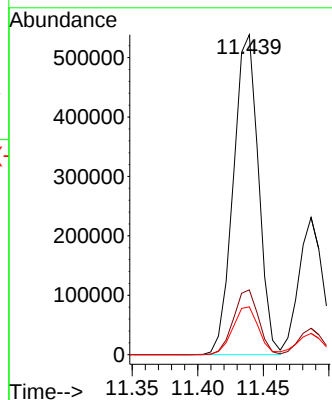
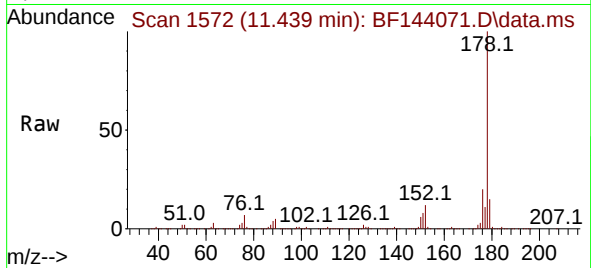




#71
Phenanthrene
Concen: 114.928 ng
RT: 11.439 min Scan# 1571
Delta R.T. 0.006 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

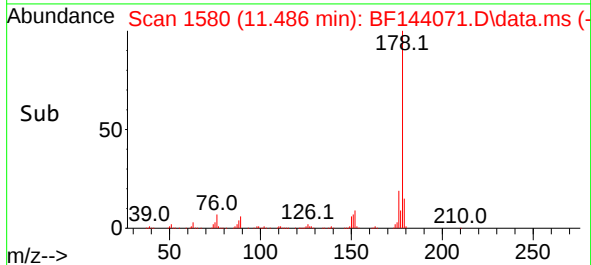
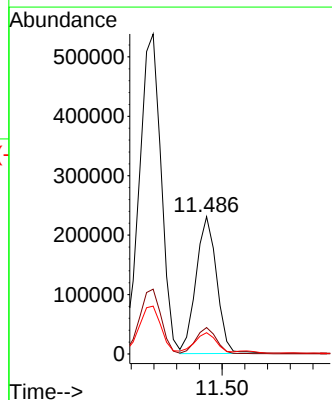
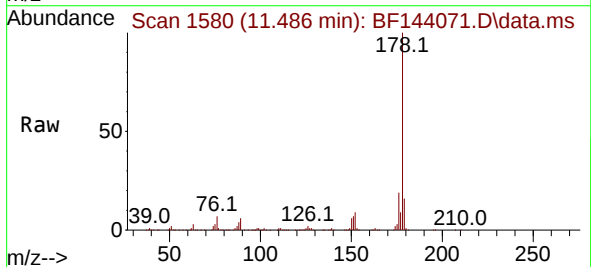
Instrument :
BNA_F
ClientSampleId :

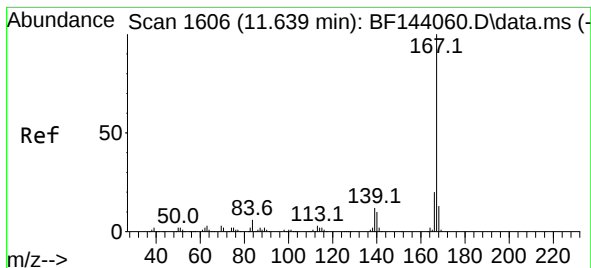
Tgt Ion:178 Resp: 717117
Ion Ratio Lower Upper
178 100
176 20.2 16.3 24.5
179 15.0 12.6 18.8



#72
Anthracene
Concen: 45.289 ng
RT: 11.486 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

Tgt Ion:178 Resp: 291921
Ion Ratio Lower Upper
178 100
176 19.2 15.0 22.4
179 15.6 11.8 17.6





#73

Carbazole

Concen: 5.577 ng

RT: 11.639 min Scan# 1

Delta R.T. 0.000 min

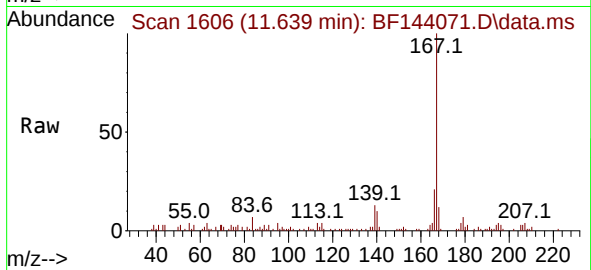
Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

Instrument :

BNA_F

ClientSampleId :



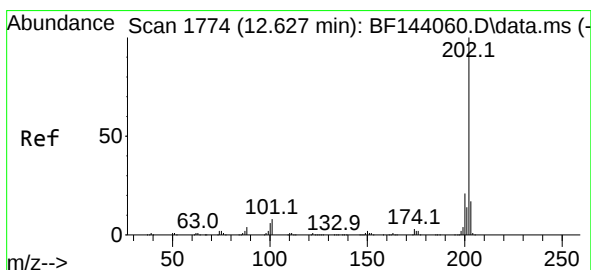
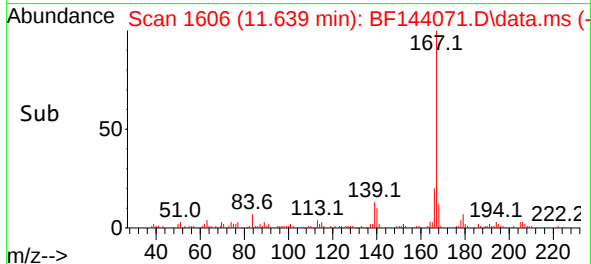
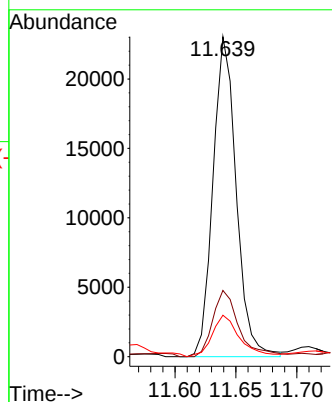
Tgt Ion:167 Resp: 30599

Ion Ratio Lower Upper

167 100

166 20.7 16.1 24.1

139 12.9 9.8 14.6



#75

Fluoranthene

Concen: 191.825 ng

RT: 12.633 min Scan# 1775

Delta R.T. 0.006 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

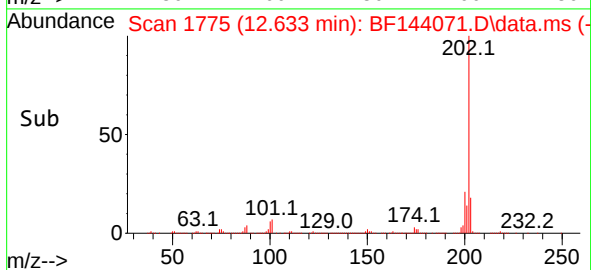
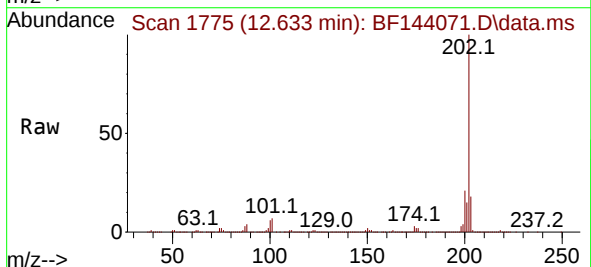
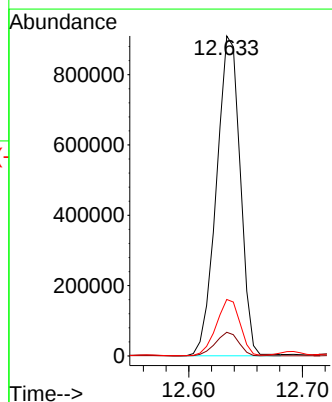
Tgt Ion:202 Resp: 1322379

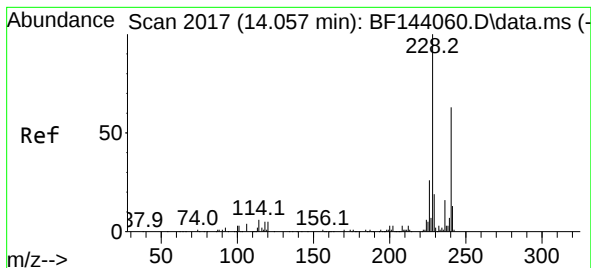
Ion Ratio Lower Upper

202 100

101 7.4 0.0 27.7

203 17.7 0.0 37.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

Instrument :

BNA_F

ClientSampleId :

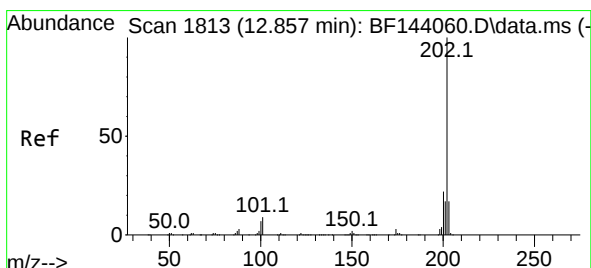
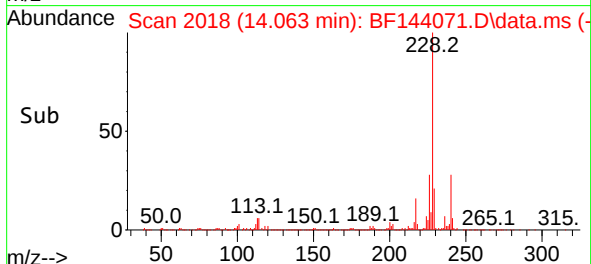
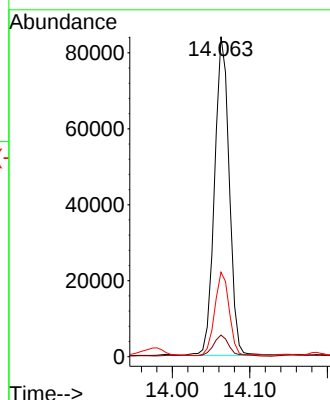
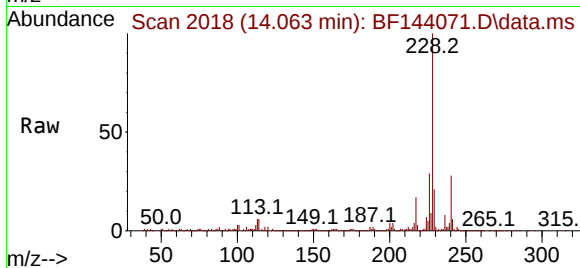
Tgt Ion:240 Resp: 110481

Ion Ratio Lower Upper

240 100

120 6.8 6.5 9.7

236 26.4 20.1 30.1



#78

Pyrene

Concen: 128.795 ng

RT: 12.863 min Scan# 1814

Delta R.T. 0.006 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

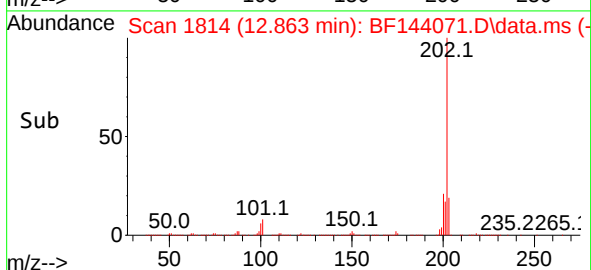
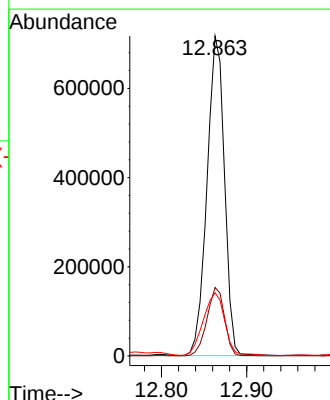
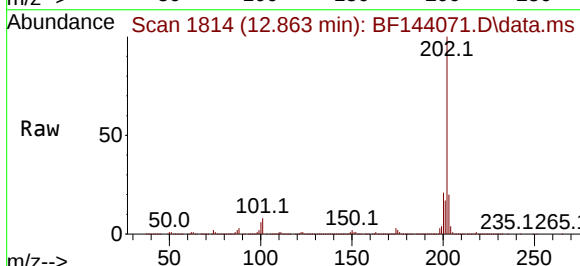
Tgt Ion:202 Resp: 1022994

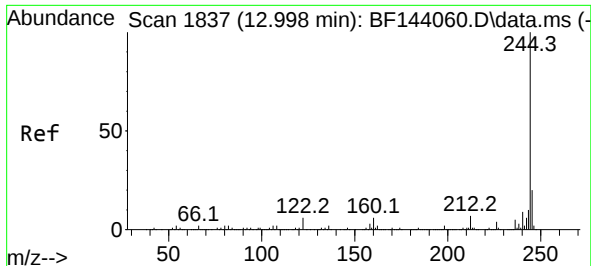
Ion Ratio Lower Upper

202 100

200 21.4 17.2 25.8

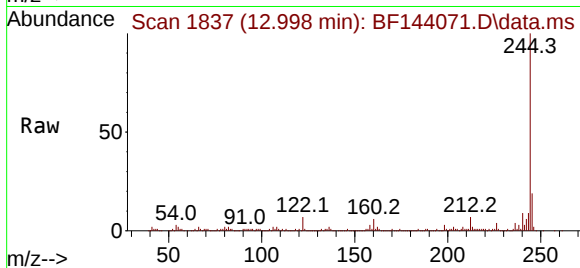
203 19.7 13.5 20.3



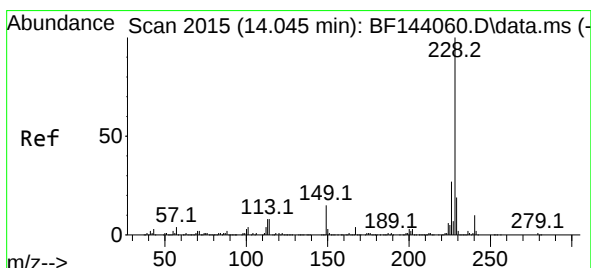
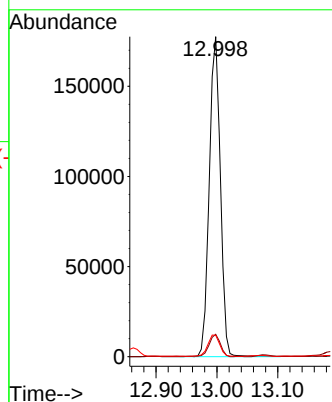
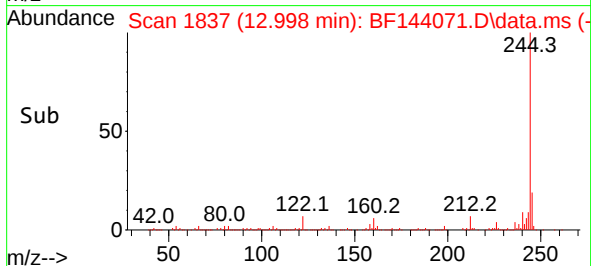


#79
 Terphenyl-d14
 Concen: 35.610 ng
 RT: 12.998 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF144071.D
 Acq: 24 Oct 2025 20:15

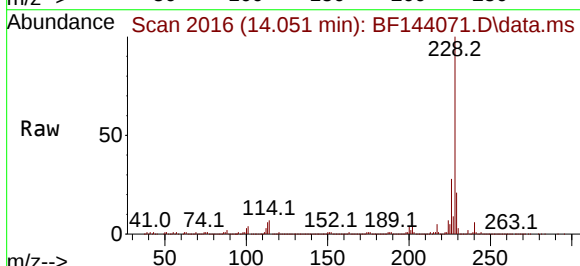
Instrument :
 BNA_F
 ClientSampleId :



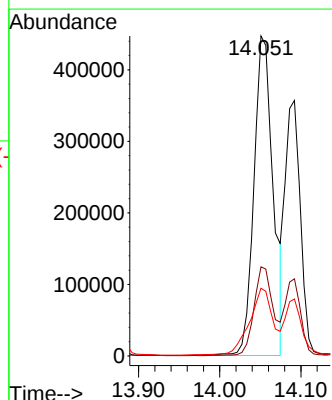
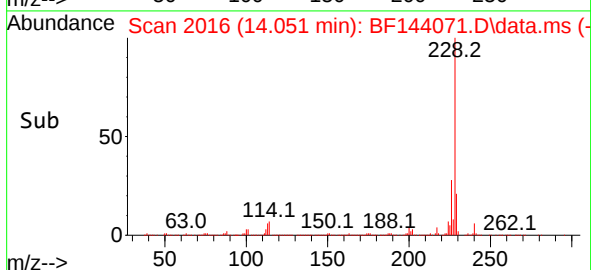
Tgt Ion:244 Resp: 225045
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.8 8.6
 122 6.7 4.9 7.3

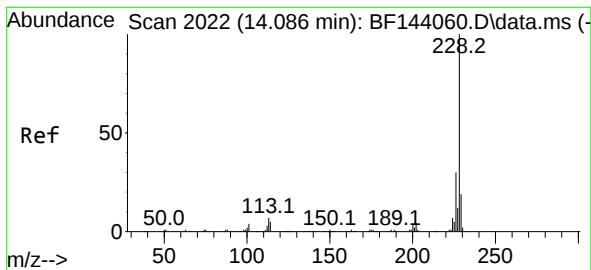


#81
 Benzo(a)anthracene
 Concen: 98.138 ng
 RT: 14.051 min Scan# 2016
 Delta R.T. 0.006 min
 Lab File: BF144071.D
 Acq: 24 Oct 2025 20:15



Tgt Ion:228 Resp: 732736
 Ion Ratio Lower Upper
 228 100
 226 27.8 21.4 32.2
 229 21.2 15.3 22.9





#83

Chrysene

Concen: 65.875 ng

RT: 14.092 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

Instrument :

BNA_F

ClientSampleId :

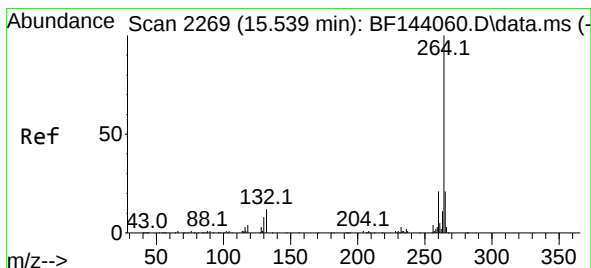
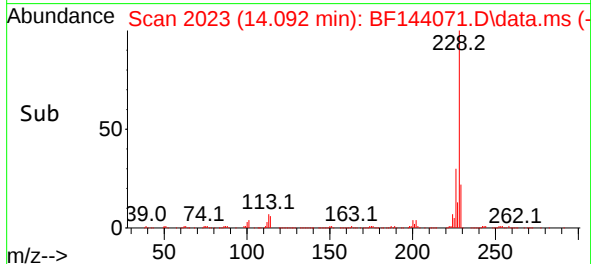
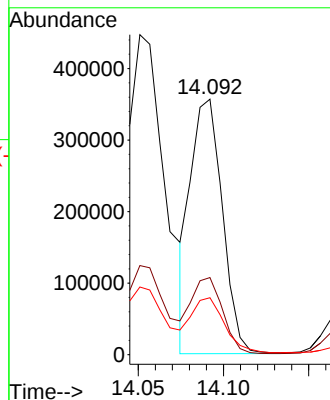
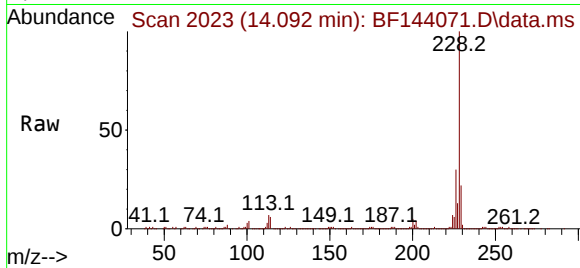
Tgt Ion:228 Resp: 461545

Ion Ratio Lower Upper

228 100

226 30.2 23.8 35.6

229 22.3 15.6 23.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 2271

Delta R.T. 0.012 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

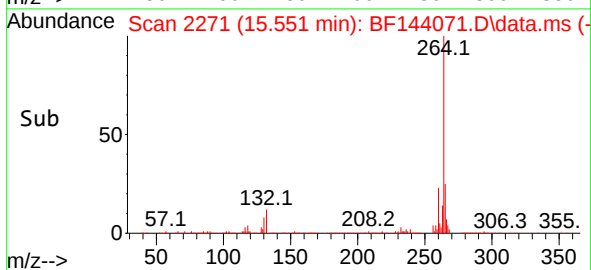
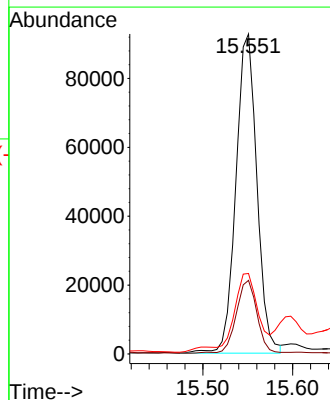
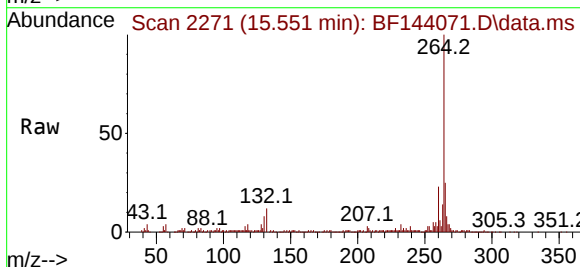
Tgt Ion:264 Resp: 150663

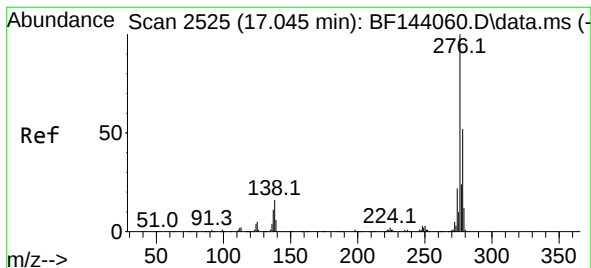
Ion Ratio Lower Upper

264 100

260 23.0 17.0 25.4

265 25.1 16.6 24.8#





#87

Indeno(1,2,3-cd)pyrene

Concen: 32.907 ng

RT: 17.057 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

Instrument :

BNA_F

ClientSampleId :

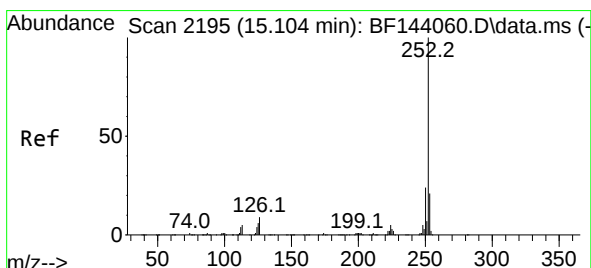
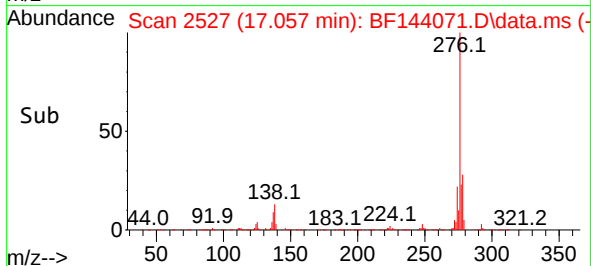
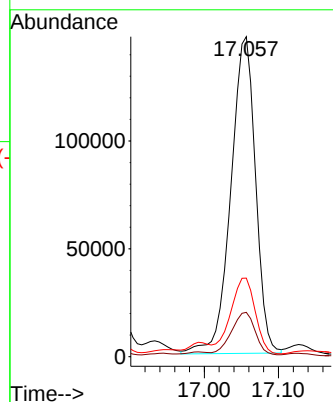
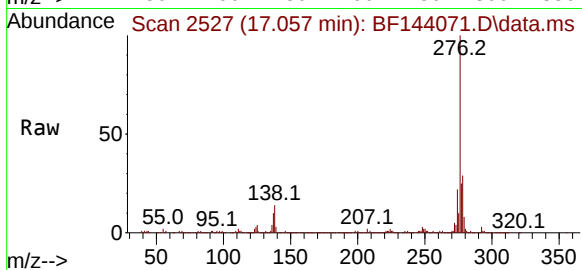
Tgt Ion:276 Resp: 340390

Ion Ratio Lower Upper

276 100

138 13.1 13.0 19.6

277 23.9 19.4 29.0



#88

Benzo(b)fluoranthene

Concen: 115.638 ng

RT: 15.121 min Scan# 2198

Delta R.T. 0.018 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

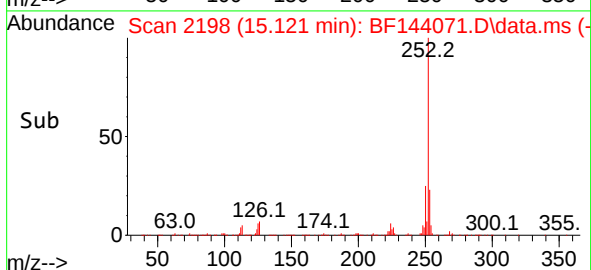
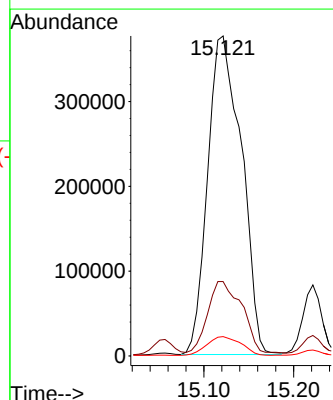
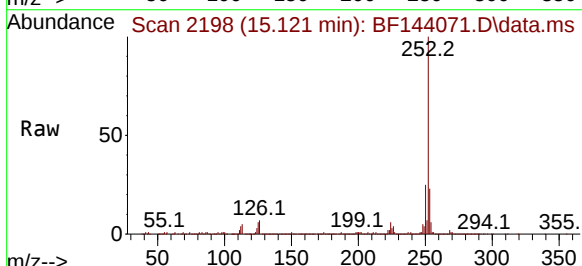
Tgt Ion:252 Resp: 984946

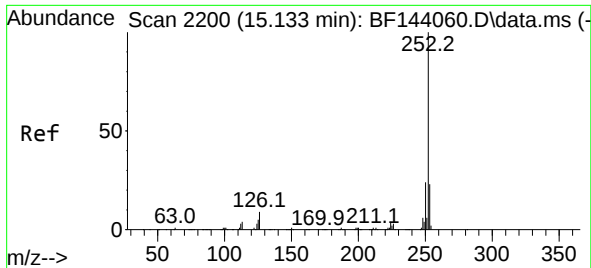
Ion Ratio Lower Upper

252 100

253 23.2 17.2 25.8

125 6.0 5.0 7.6

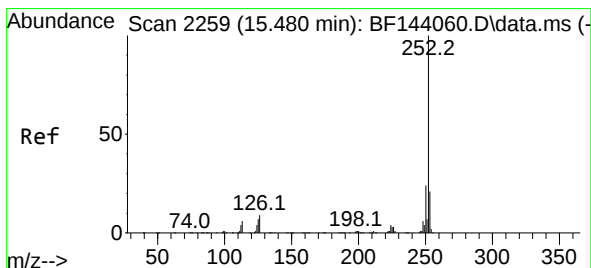
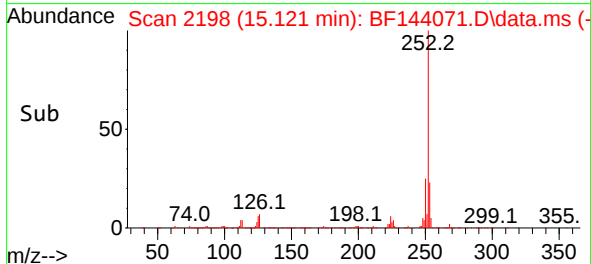
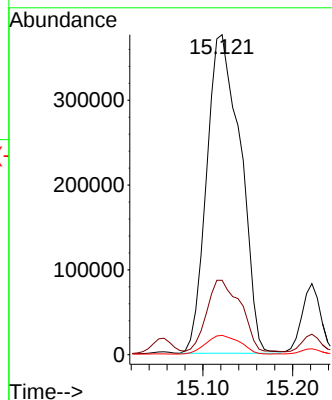
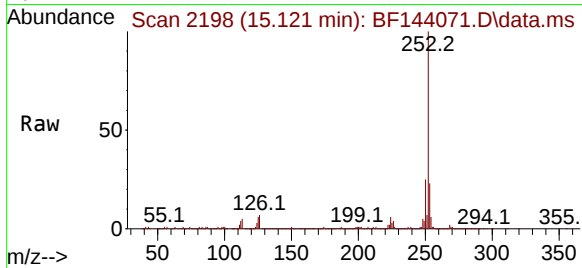




#89
Benzo(k)fluoranthene
Concen: 125.335 ng
RT: 15.121 min Scan# 2198
Delta R.T. -0.012 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

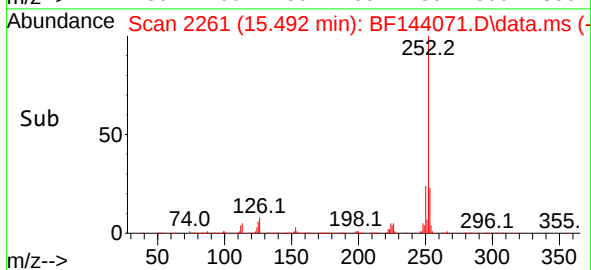
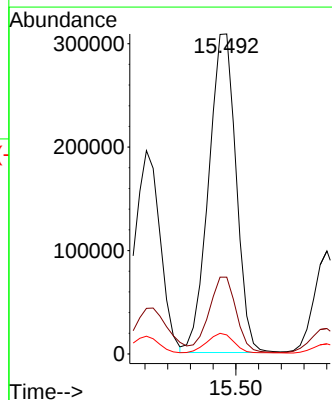
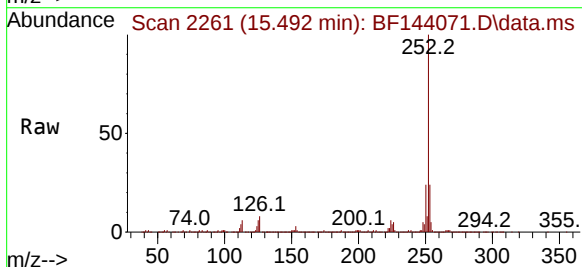
Instrument :
BNA_F
ClientSampleId :

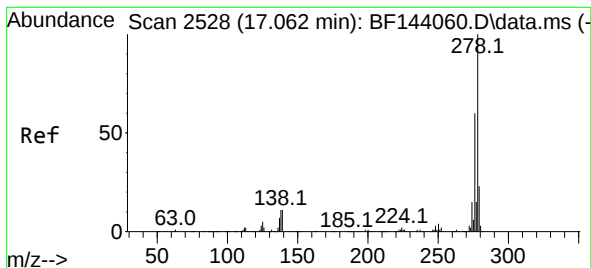
Tgt Ion:252 Resp: 984946
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.2
125 6.0 4.9 7.3



#90
Benzo(a)pyrene
Concen: 67.720 ng
RT: 15.492 min Scan# 2261
Delta R.T. 0.012 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

Tgt Ion:252 Resp: 517469
Ion Ratio Lower Upper
252 100
253 24.0 17.1 25.7
125 6.0 5.4 8.2





#91

Dibenzo(a,h)anthracene

Concen: 10.061 ng

RT: 17.227 min Scan# 21

Delta R.T. 0.165 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

Instrument :

BNA_F

ClientSampleId :

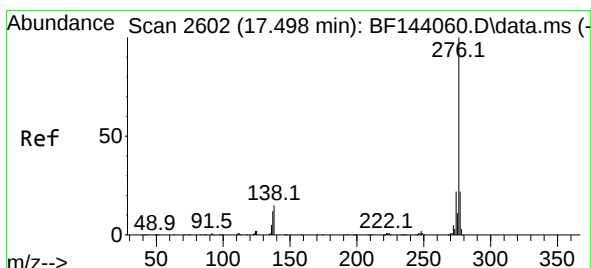
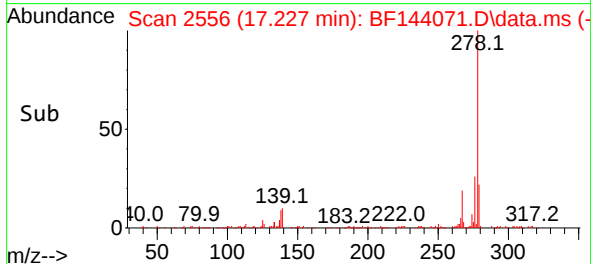
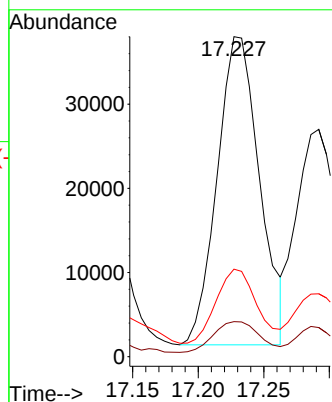
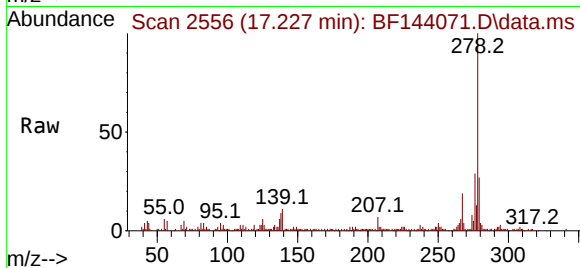
Tgt Ion:278 Resp: 82375

Ion Ratio Lower Upper

278 100

139 11.0 8.5 12.7

279 27.3 18.6 28.0



#92

Benzo(g,h,i)perylene

Concen: 32.264 ng

RT: 17.509 min Scan# 2604

Delta R.T. 0.012 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

Tgt Ion:276 Resp: 265599

Ion Ratio Lower Upper

276 100

277 23.6 17.9 26.9

138 15.7 12.0 18.0

