

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102725\
 Data File : BF144095.D
 Acq On : 27 Oct 2025 21:02
 Operator : RC/JU
 Sample : Q3447-07 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P001-TW4-251023-01

Quant Time: Oct 28 10:43:03 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)

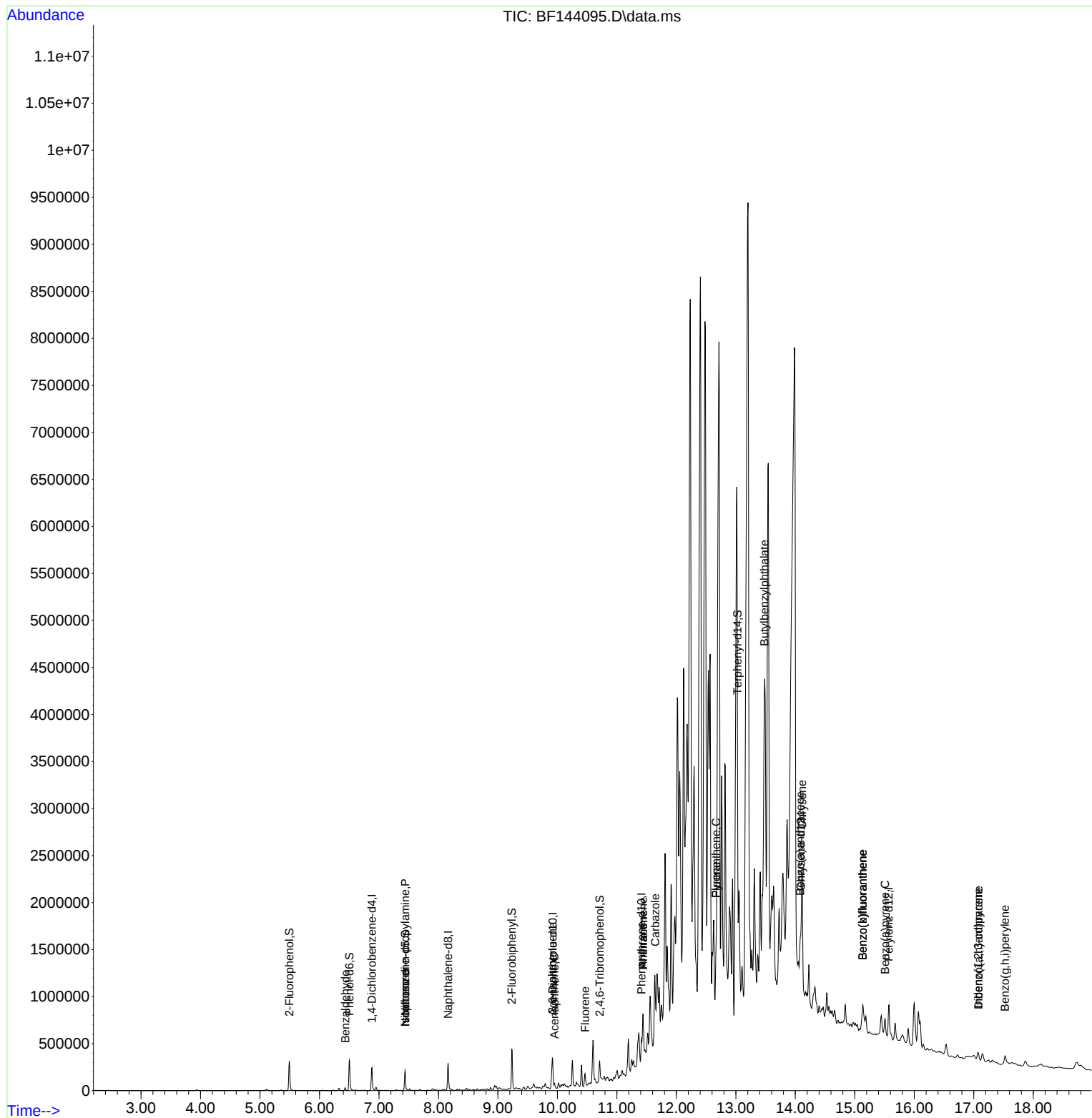
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	51901	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	181596	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	92703	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	151349	20.000	ng	0.00
76) Chrysene-d12	14.092	240	148380	20.000	ng	0.04
86) Perylene-d12	15.569	264	92727	20.000	ng	# 0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	127089	38.741	ng	0.00
7) Phenol-d6	6.504	99	147472	40.705	ng	0.00
23) Nitrobenzene-d5	7.440	82	86343	26.049	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	46077	39.020	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	197306	29.951	ng	0.00
79) Terphenyl-d14	13.027	244	187309	22.069	ng	0.03
Target Compounds						Qvalue
9) Benzaldehyde	6.434	77	9353	3.325	ng	97
19) n-Nitroso-di-n-propyla...	7.440	70	13026	5.560	ng	# 76
25) Isophorone	7.440	82	86342	14.900	ng	# 66
51) 2,6-Dinitrotoluene	9.916	165	12321	10.257	ng	# 27
52) Acenaphthene	9.951	154	14500	2.896	ng	94
58) Fluorene	10.469	166	16255	3.069	ng	# 96
71) Phenanthrene	11.439	178	244138	32.472	ng	100
72) Anthracene	11.439	178	244138	31.434	ng	97
73) Carbazole	11.645	167	35625	5.389	ng	# 81
75) Fluoranthene	12.669	202	276969	33.344	ng	97
78) Pyrene	12.669	202	293168	27.482	ng	98
80) Butylbenzylphthalate	13.480	149	28462	7.053	ng	# 1
81) Benzo(a)anthracene	14.080	228	223515	22.290	ng	# 92
83) Chrysene	14.116	228	206519	21.947	ng	# 91
87) Indeno(1,2,3-cd)pyrene	17.074	276	70422	11.062	ng	99
88) Benzo(b)fluoranthene	15.133	252	280312	53.473	ng	# 93
89) Benzo(k)fluoranthene	15.133	252	280312	57.957	ng	# 93
90) Benzo(a)pyrene	15.510	252	134648	28.631	ng	95
91) Dibenzo(a,h)anthracene	17.080	278	27110	5.380	ng	# 75
92) Benzo(g,h,i)perylene	17.527	276	88017	17.372	ng	95

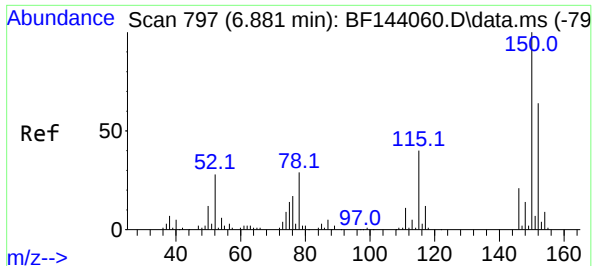
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102725\
Data File : BF144095.D
Acq On : 27 Oct 2025 21:02
Operator : RC/JU
Sample : Q3447-07 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

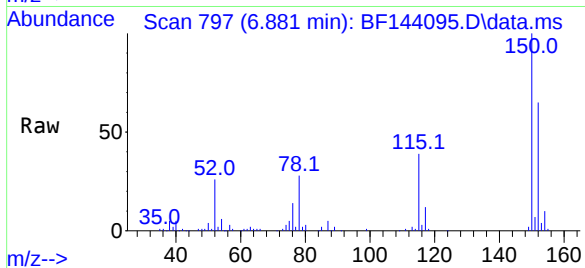
Quant Time: Oct 28 10:43:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 24 17:30:25 2025
Response via : Initial Calibration



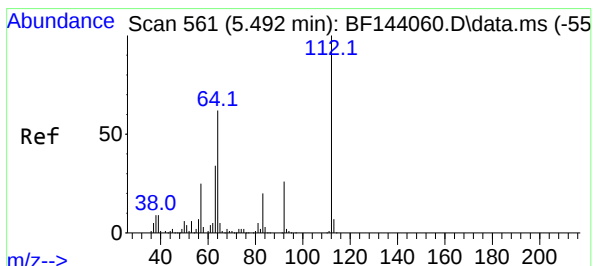
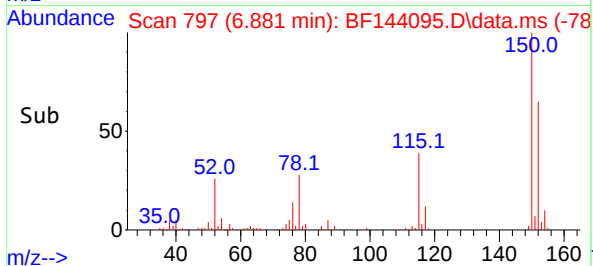
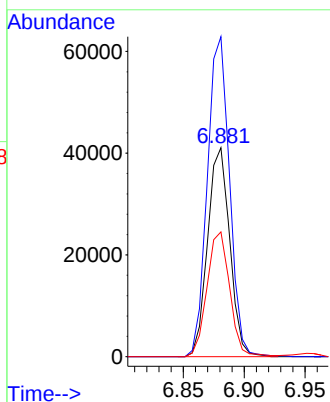


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

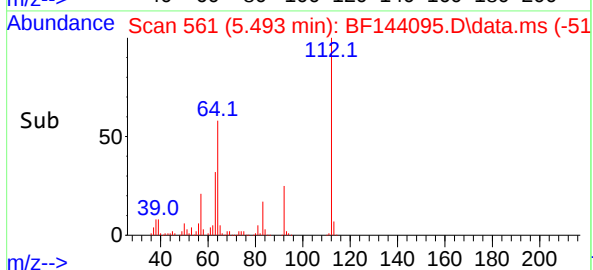
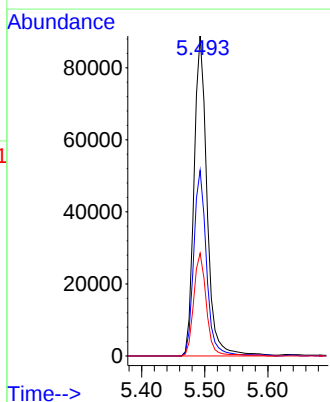
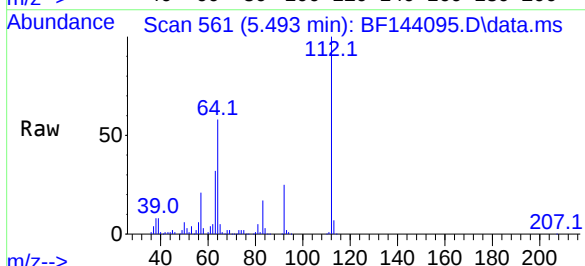


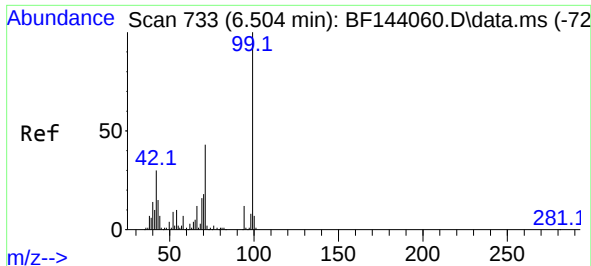
Tgt Ion:152 Resp: 51901
Ion Ratio Lower Upper
152 100
150 153.1 124.4 186.6
115 59.7 49.4 74.0



#5
2-Fluorophenol
Concen: 38.741 ng
RT: 5.493 min Scan# 561
Delta R.T. 0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion:112 Resp: 127089
Ion Ratio Lower Upper
112 100
64 58.0 49.8 74.8
63 32.1 27.4 41.2

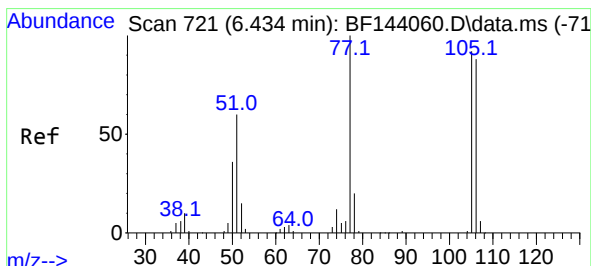
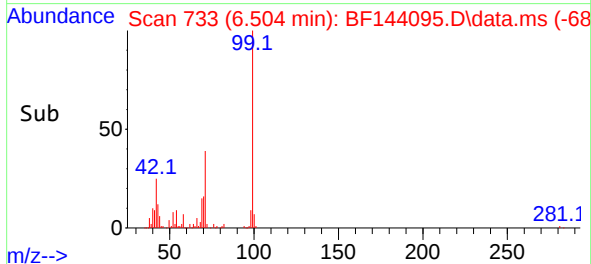
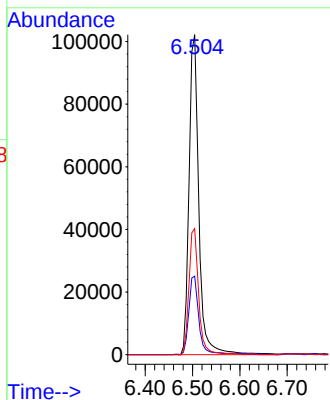
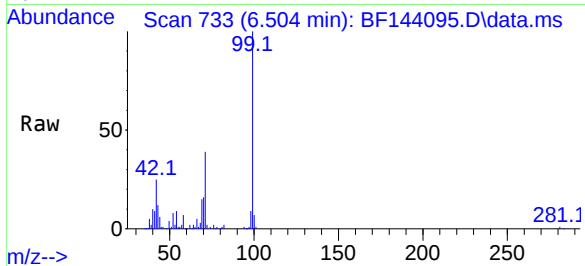




#7
Phenol-d6
Concen: 40.705 ng
RT: 6.504 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

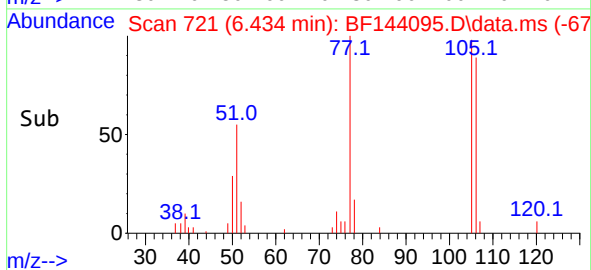
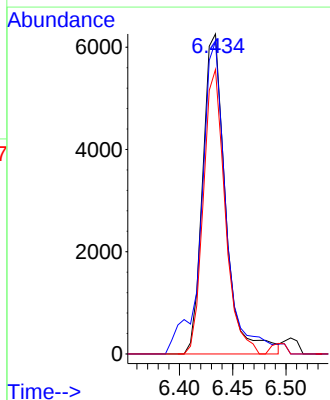
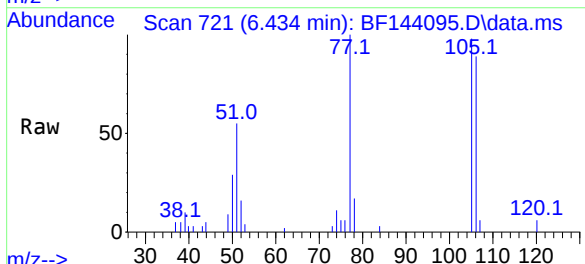
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

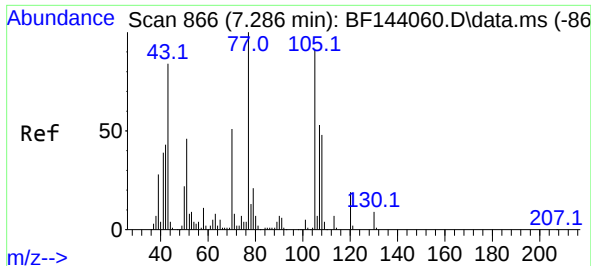
Tgt Ion: 99 Resp: 147472
Ion Ratio Lower Upper
99 100
42 24.5 23.9 35.9
71 39.4 34.4 51.6



#9
Benzaldehyde
Concen: 3.325 ng
RT: 6.434 min Scan# 721
Delta R.T. 0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion: 77 Resp: 9353
Ion Ratio Lower Upper
77 100
105 97.6 72.2 112.2
106 88.9 67.9 107.9

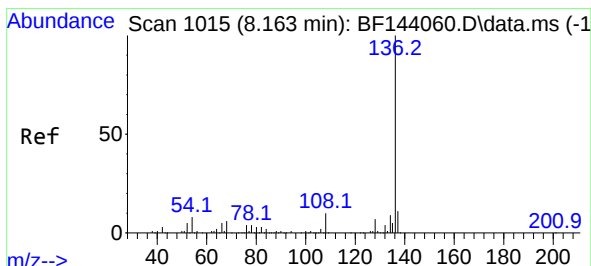
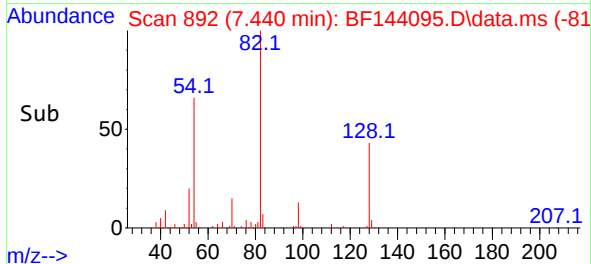
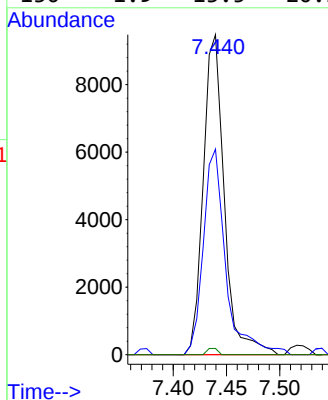
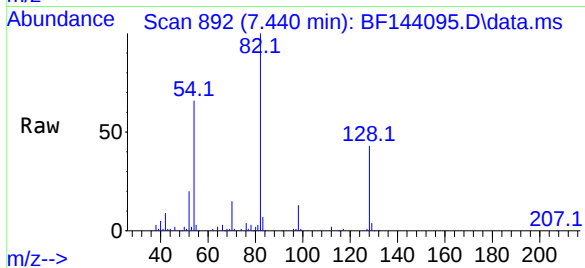




#19
n-Nitroso-di-n-propylamine
Concen: 5.560 ng
RT: 7.440 min Scan# 892
Delta R.T. 0.153 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

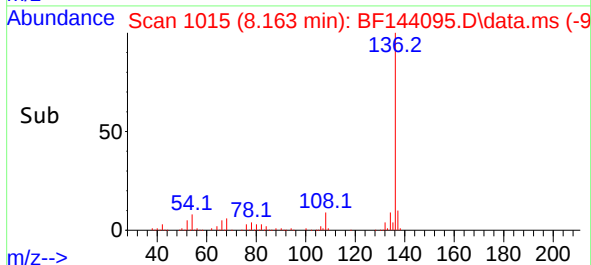
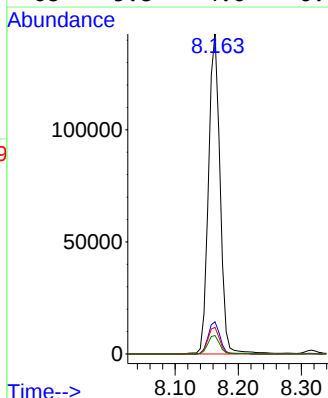
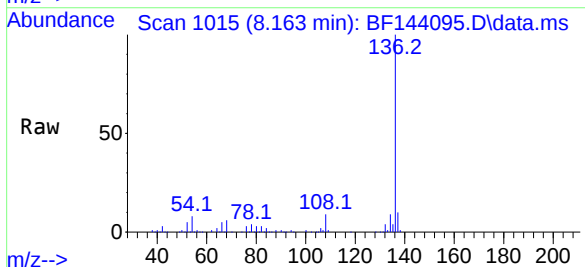
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

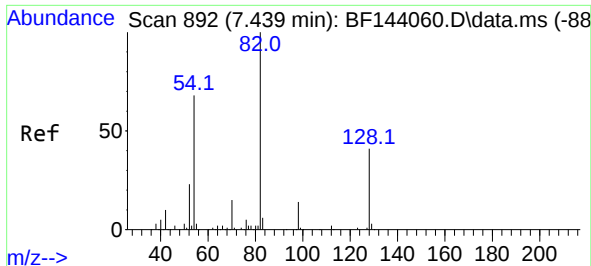
Tgt Ion: 70 Resp: 13026
Ion Ratio Lower Upper
70 100
42 64.2 67.4 101.0#
101 0.0 7.1 10.7#
130 1.9 13.5 20.3#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. 0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion:136 Resp: 181596
Ion Ratio Lower Upper
136 100
137 10.1 8.6 13.0
54 8.3 6.6 9.8
68 5.8 4.6 6.8

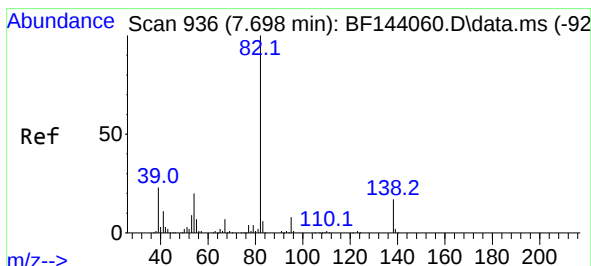
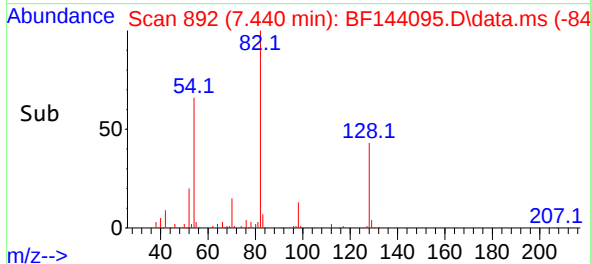
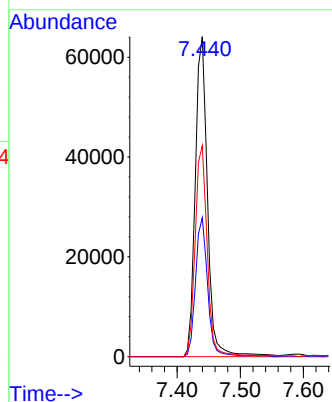
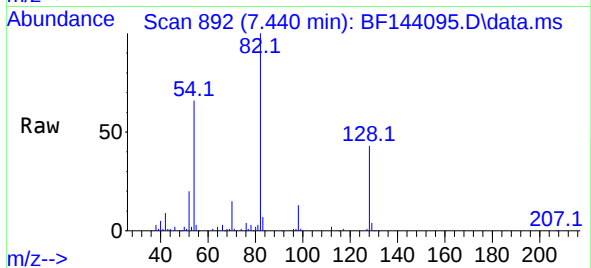




#23
Nitrobenzene-d5
Concen: 26.049 ng
RT: 7.440 min Scan# 892
Delta R.T. 0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

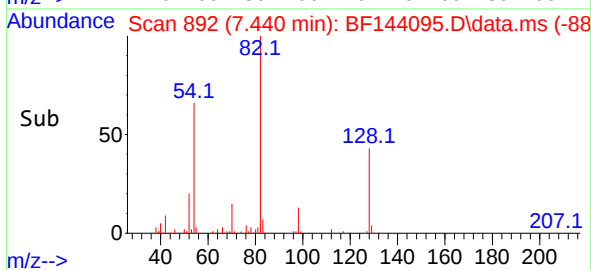
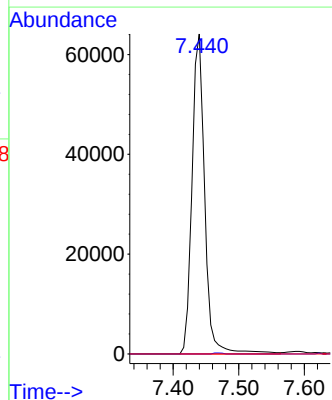
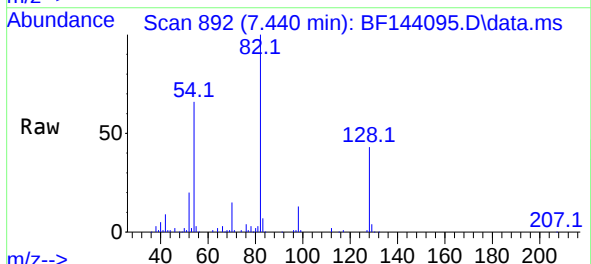
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

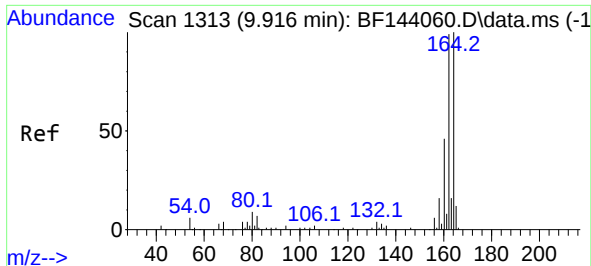
Tgt Ion: 82 Resp: 86343
Ion Ratio Lower Upper
82 100
128 43.5 32.4 48.6
54 65.9 54.0 81.0



#25
Isophorone
Concen: 14.900 ng
RT: 7.440 min Scan# 892
Delta R.T. -0.259 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion: 82 Resp: 86342
Ion Ratio Lower Upper
82 100
95 0.0 6.6 9.8#
138 0.0 13.8 20.8#

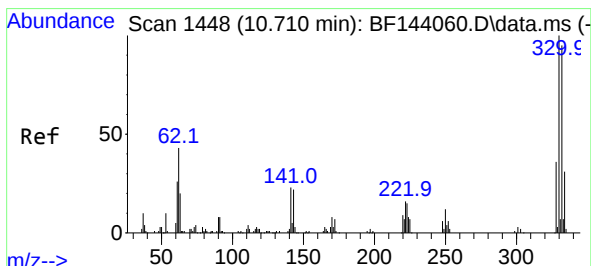
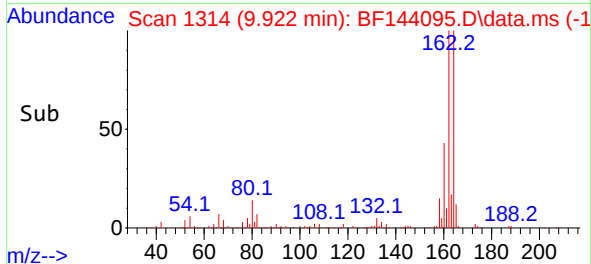
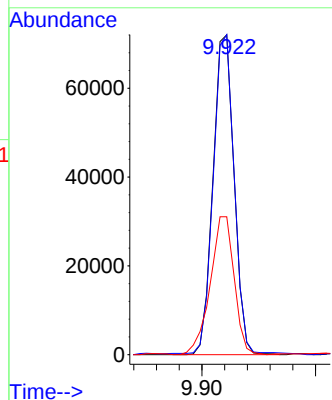
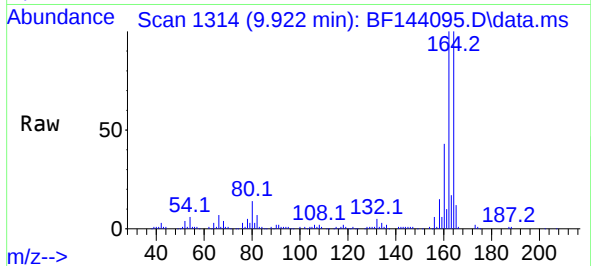




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

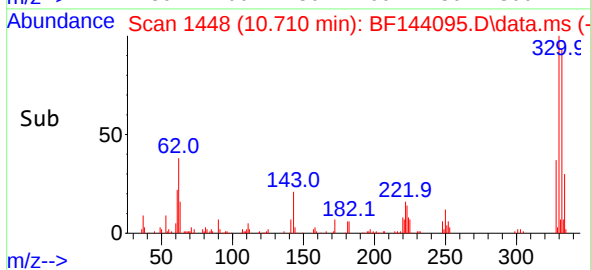
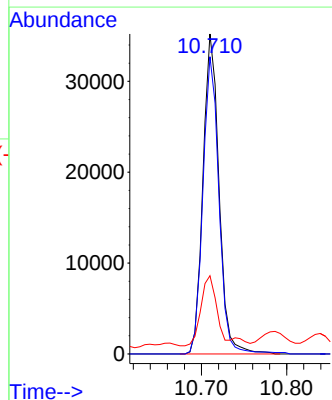
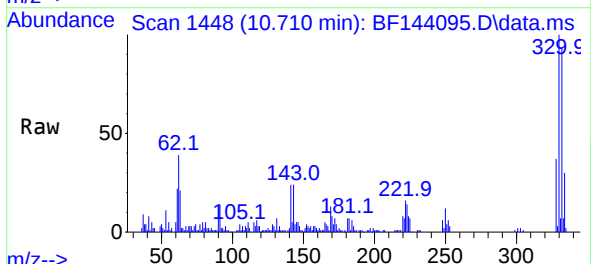
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

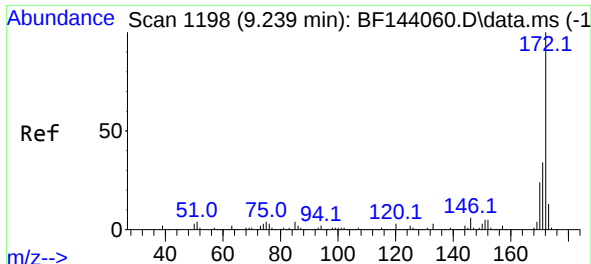
Tgt Ion:164 Resp: 92703
Ion Ratio Lower Upper
164 100
162 100.0 79.4 119.2
160 43.1 36.7 55.1



#42
2,4,6-Tribromophenol
Concen: 39.020 ng
RT: 10.710 min Scan# 1448
Delta R.T. 0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion:330 Resp: 46077
Ion Ratio Lower Upper
330 100
332 93.0 77.0 115.6
141 21.9 19.4 29.0

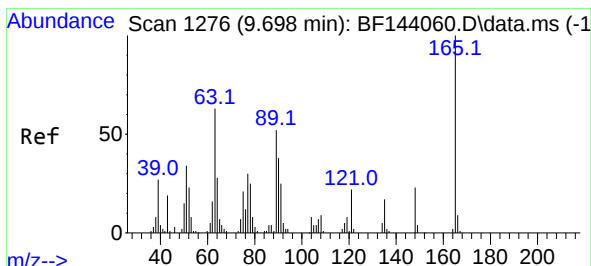
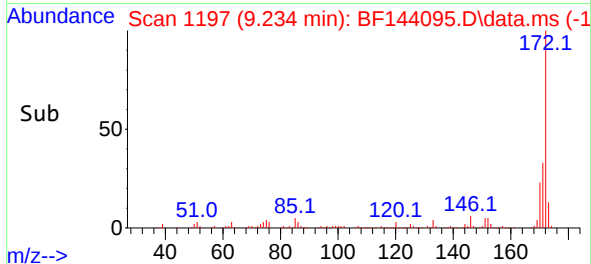
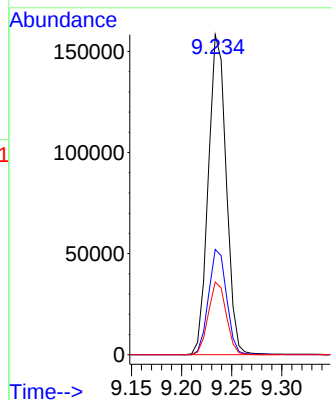
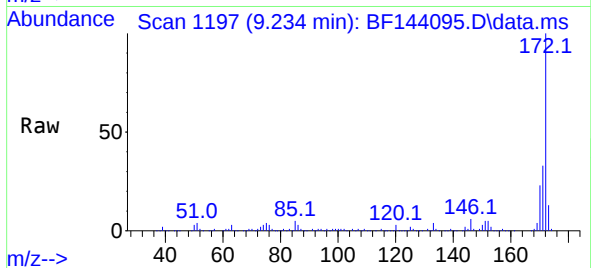




#45
2-Fluorobiphenyl
Concen: 29.951 ng
RT: 9.234 min Scan# 1198
Delta R.T. -0.006 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

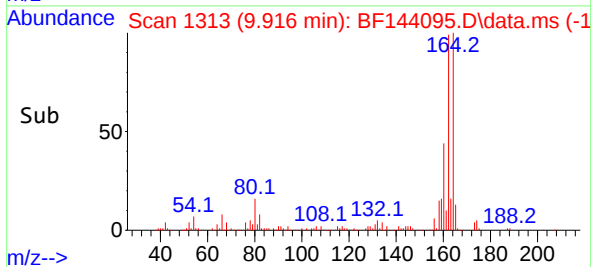
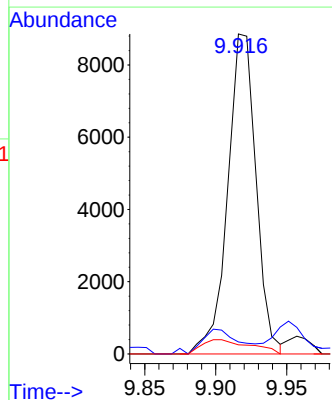
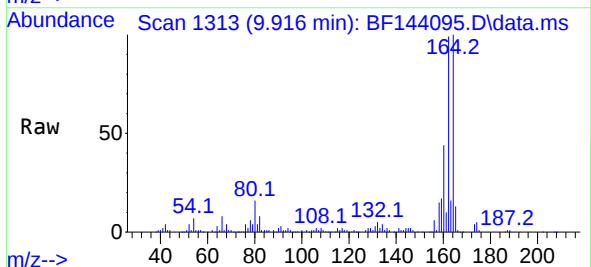
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

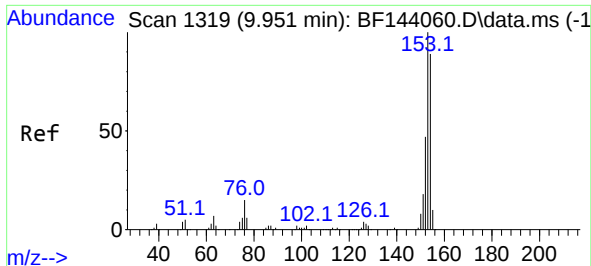
Tgt Ion:172 Resp: 197306
Ion Ratio Lower Upper
172 100
171 32.9 27.5 41.3
170 22.7 19.0 28.6



#51
2,6-Dinitrotoluene
Concen: 10.257 ng
RT: 9.916 min Scan# 1313
Delta R.T. 0.218 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion:165 Resp: 12321
Ion Ratio Lower Upper
165 100
63 3.8 50.4 75.6#
89 2.9 41.4 62.2#

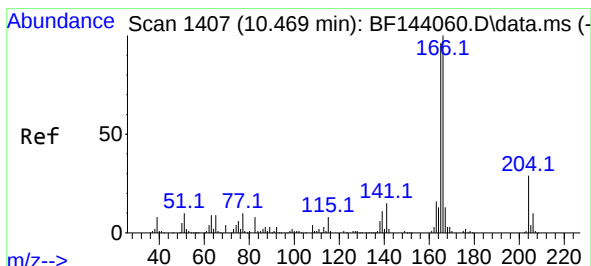
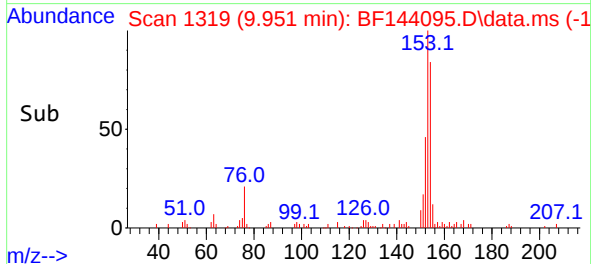
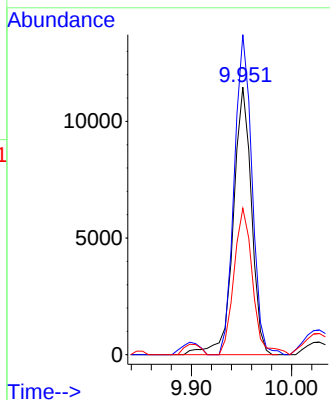
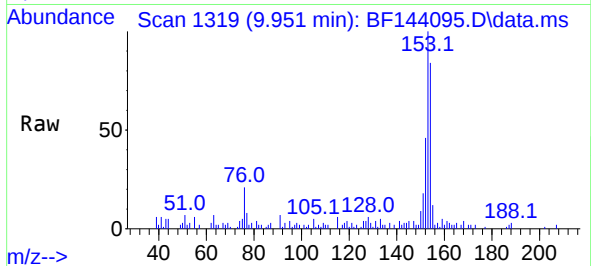




#52
Acenaphthene
Concen: 2.896 ng
RT: 9.951 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

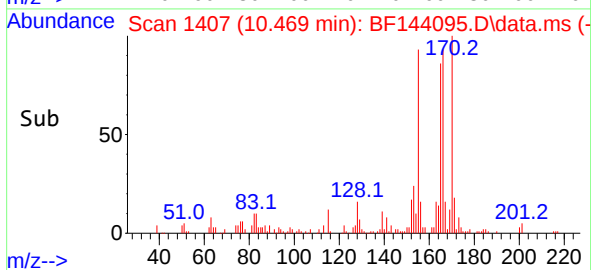
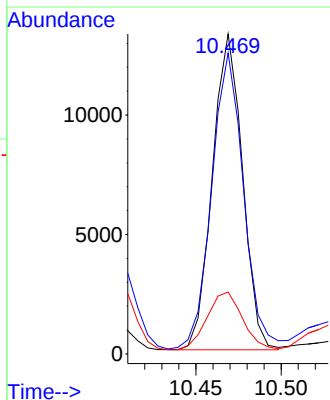
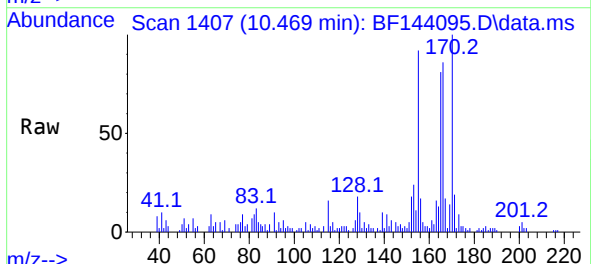
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

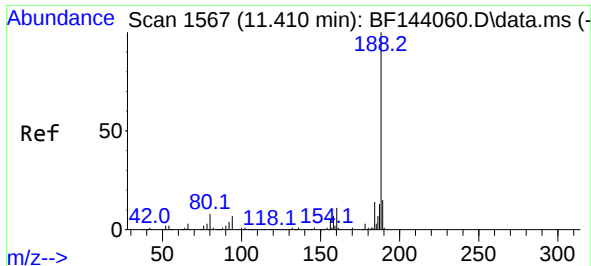
Tgt Ion:154 Resp: 14500
Ion Ratio Lower Upper
154 100
153 119.6 89.9 134.9
152 54.7 42.0 63.0



#58
Fluorene
Concen: 3.069 ng
RT: 10.469 min Scan# 1407
Delta R.T. 0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion:166 Resp: 16255
Ion Ratio Lower Upper
166 100
165 94.0 77.0 115.4
167 19.4 10.2 15.4#

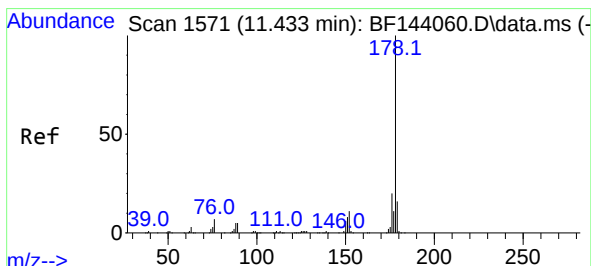
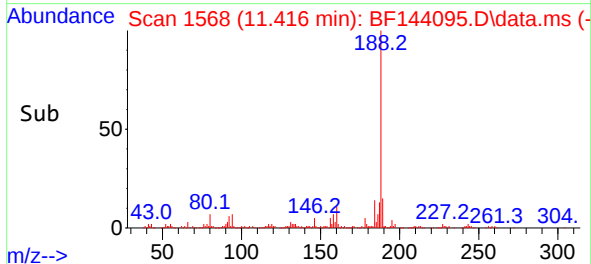
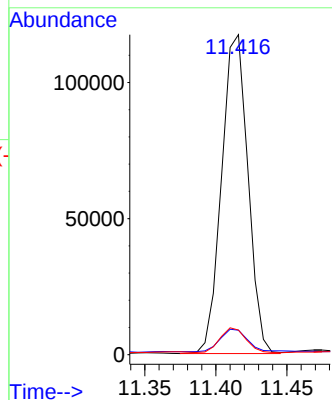
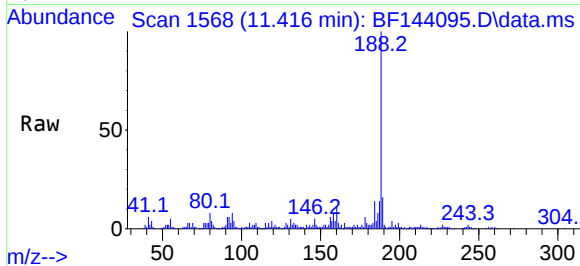




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1567
Delta R.T. 0.006 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

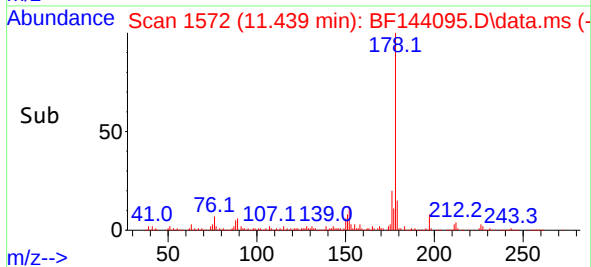
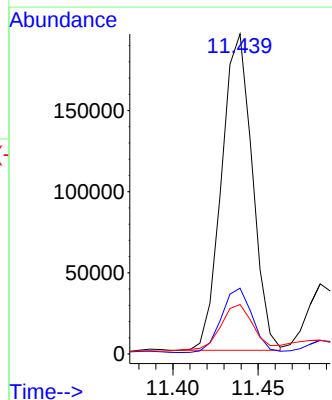
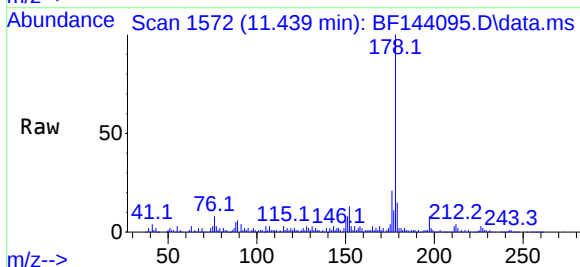
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

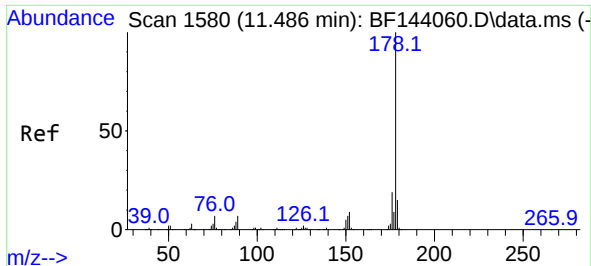
Tgt Ion:188 Resp: 151349
Ion Ratio Lower Upper
188 100
94 7.7 5.4 8.0
80 7.7 6.0 9.0



#71
Phenanthrene
Concen: 32.472 ng
RT: 11.439 min Scan# 1572
Delta R.T. 0.006 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion:178 Resp: 244138
Ion Ratio Lower Upper
178 100
176 20.5 16.3 24.5
179 15.5 12.6 18.8



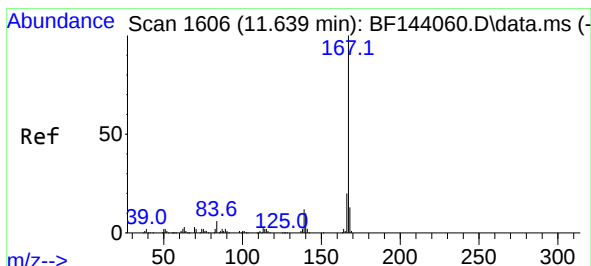
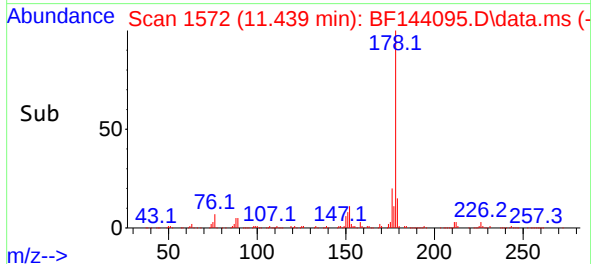
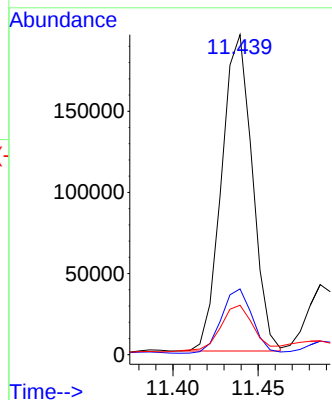
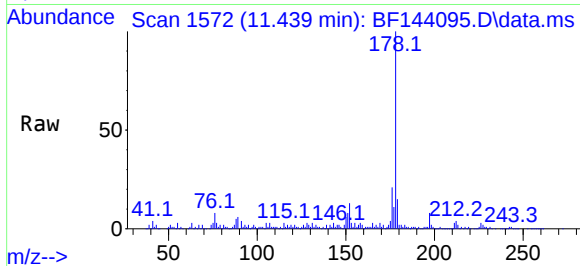


#72
 Anthracene
 Concen: 31.434 ng
 RT: 11.439 min Scan# 11
 Delta R.T. -0.047 min
 Lab File: BF144095.D
 Acq: 27 Oct 2025 21:02

Instrument :
 BNA_F
 ClientSampleId :
 P001-TW4-251023-01

Tgt Ion:178 Resp: 244138

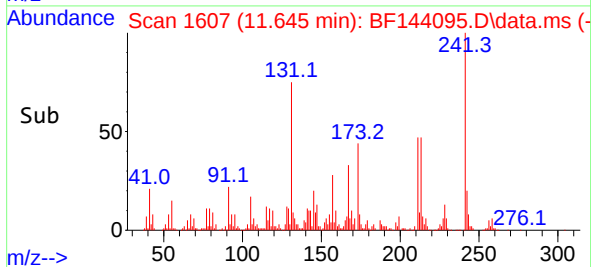
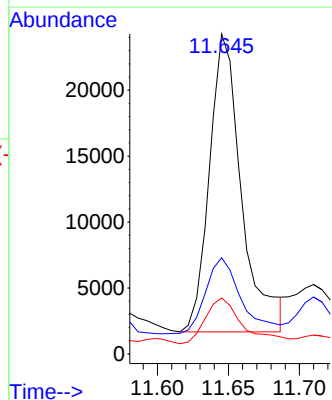
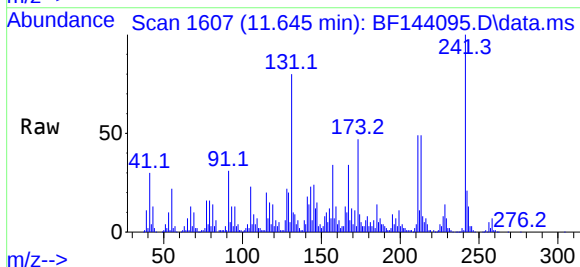
Ion	Ratio	Lower	Upper
178	100		
176	20.5	15.0	22.4
179	15.5	11.8	17.6

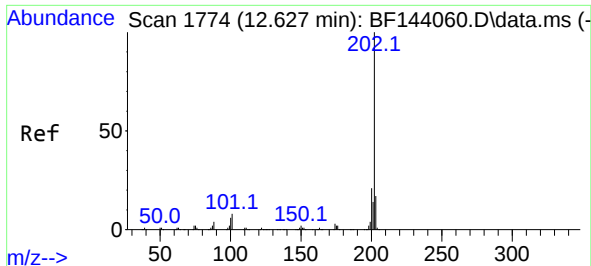


#73
 Carbazole
 Concen: 5.389 ng
 RT: 11.645 min Scan# 1607
 Delta R.T. 0.006 min
 Lab File: BF144095.D
 Acq: 27 Oct 2025 21:02

Tgt Ion:167 Resp: 35625

Ion	Ratio	Lower	Upper
167	100		
166	30.0	16.1	24.1#
139	17.5	9.8	14.6#

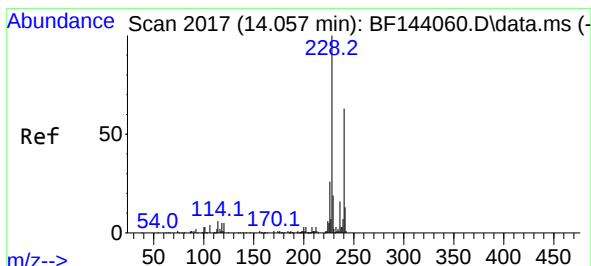
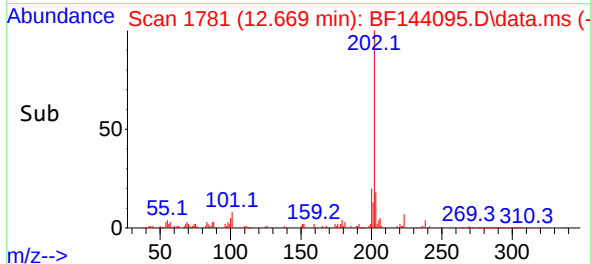
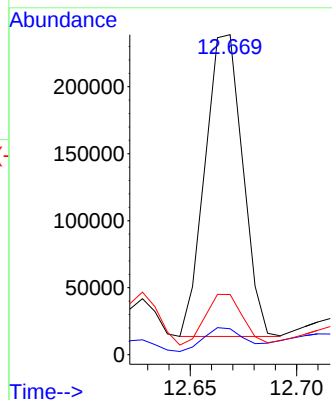
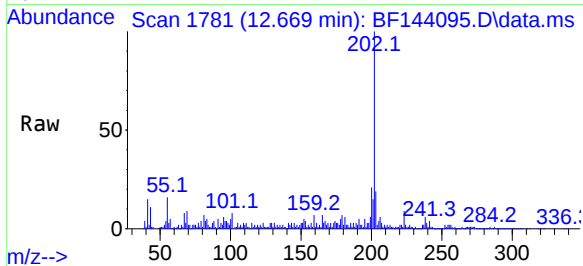




#75
Fluoranthene
Concen: 33.344 ng
RT: 12.669 min Scan# 11
Delta R.T. 0.041 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

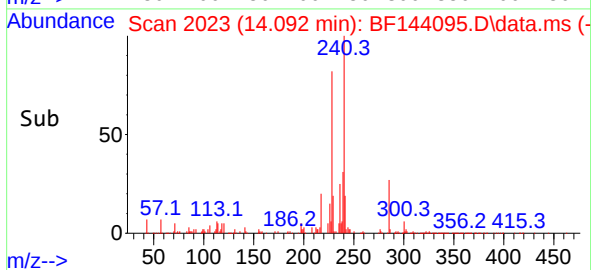
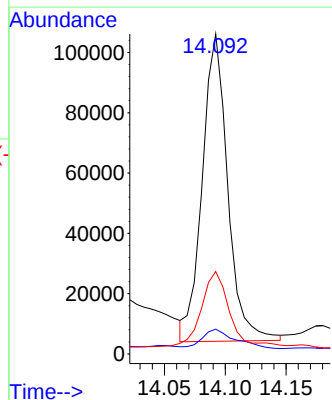
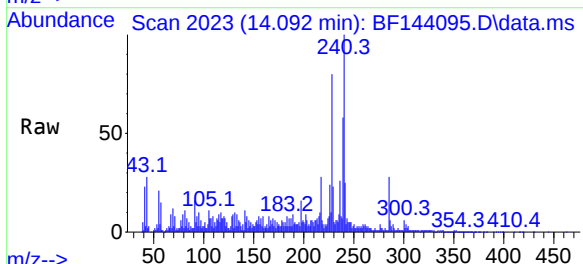
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

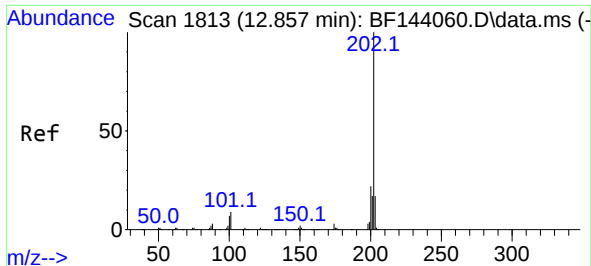
Tgt Ion:202 Resp: 276969
Ion Ratio Lower Upper
202 100
101 8.1 0.0 27.7
203 18.8 0.0 37.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. 0.036 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion:240 Resp: 148380
Ion Ratio Lower Upper
240 100
120 7.7 6.5 9.7
236 25.8 20.1 30.1

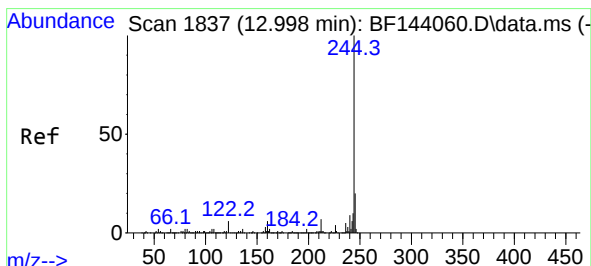
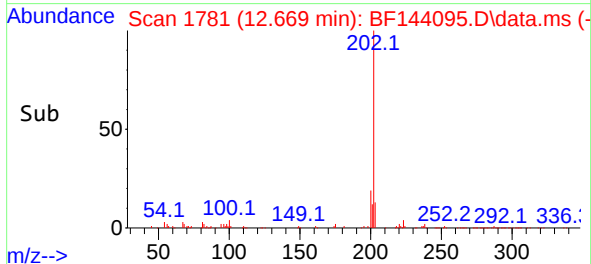
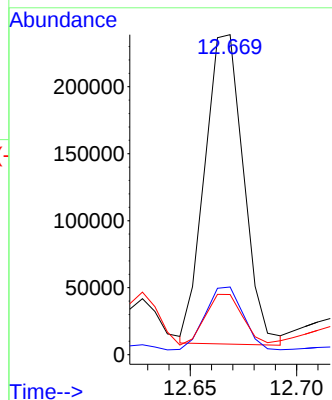
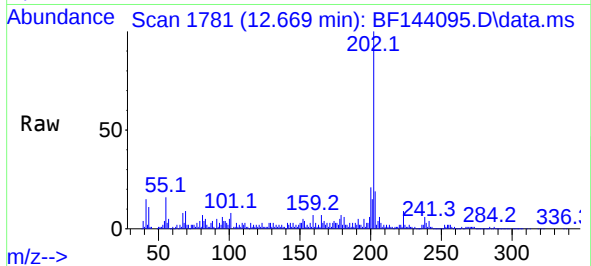




#78
Pyrene
Concen: 27.482 ng
RT: 12.669 min Scan# 11
Delta R.T. -0.188 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

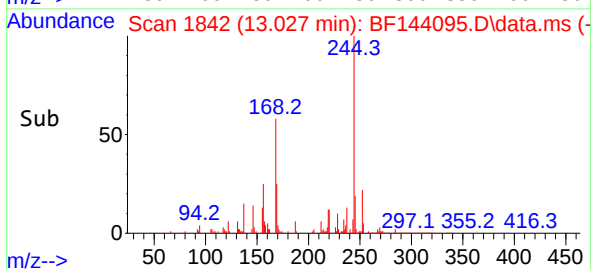
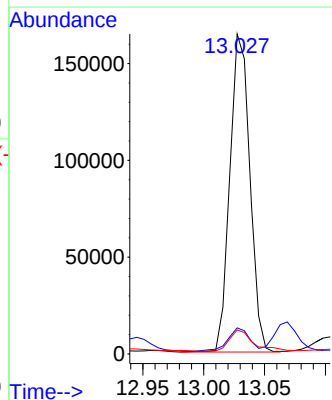
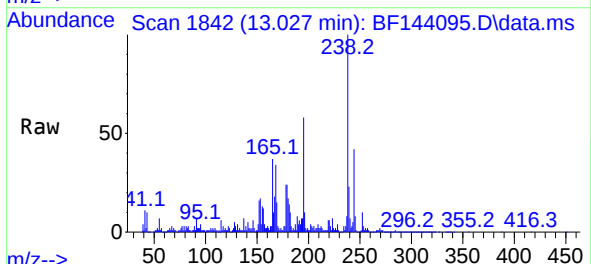
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

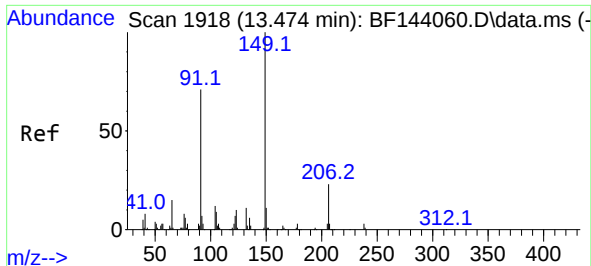
Tgt Ion:202 Resp: 293168
Ion Ratio Lower Upper
202 100
200 21.2 17.2 25.8
203 18.8 13.5 20.3



#79
Terphenyl-d14
Concen: 22.069 ng
RT: 13.027 min Scan# 1842
Delta R.T. 0.030 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion:244 Resp: 187309
Ion Ratio Lower Upper
244 100
212 8.1 5.8 8.6
122 7.5 4.9 7.3#

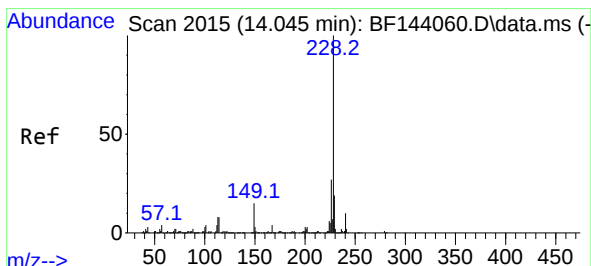
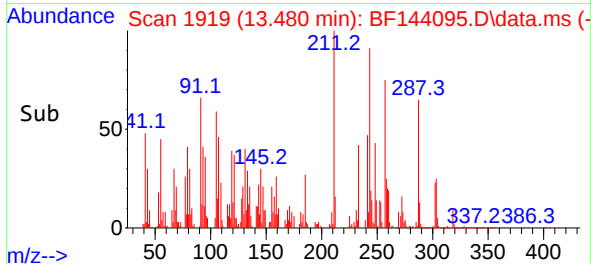
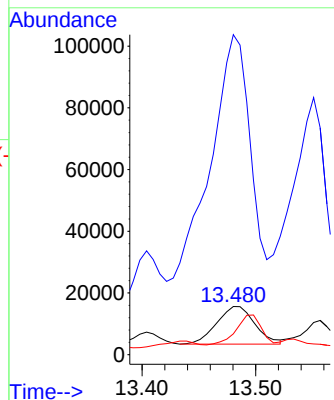
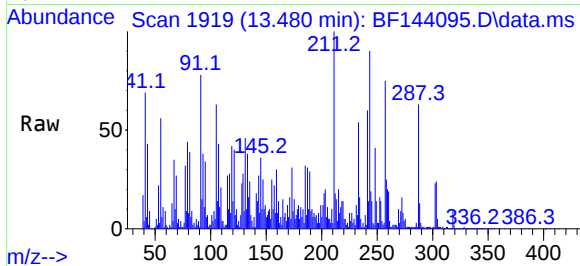




#80
Butylbenzylphthalate
Concen: 7.053 ng
RT: 13.480 min Scan# 1918
Delta R.T. 0.006 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

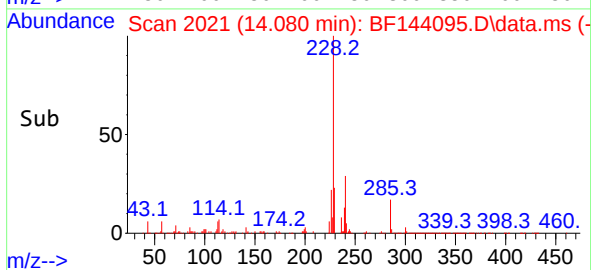
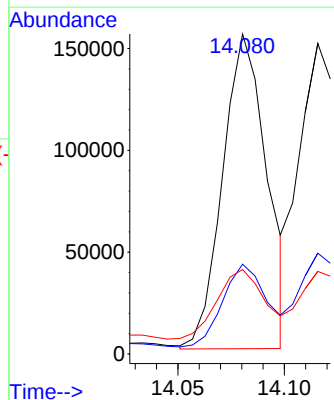
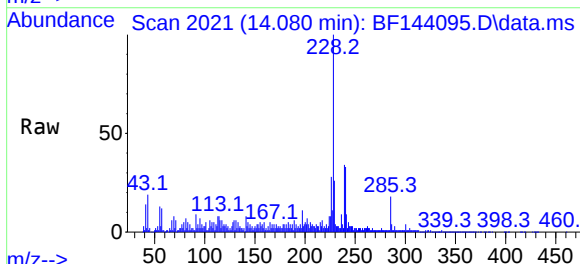
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

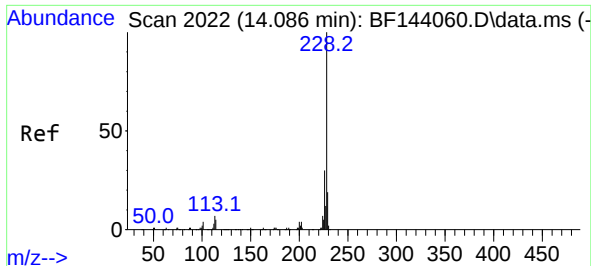
Tgt Ion:	149	Resp:	28462
Ion Ratio	Lower	Upper	
149	100		
91	665.1	56.6	84.8#
206	43.3	18.3	27.5#



#81
Benzo(a)anthracene
Concen: 22.290 ng
RT: 14.080 min Scan# 2021
Delta R.T. 0.035 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion:	228	Resp:	223515
Ion Ratio	Lower	Upper	
228	100		
226	28.1	21.4	32.2
229	26.4	15.3	22.9#

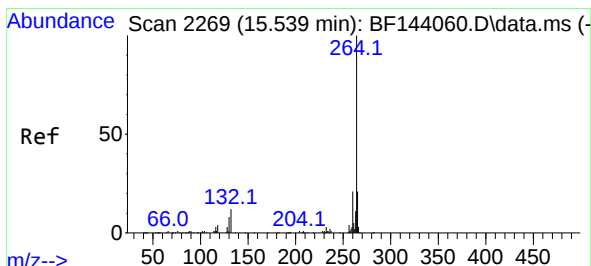
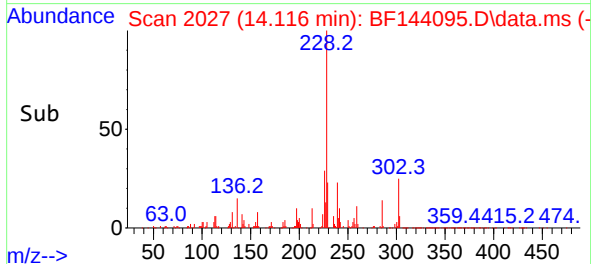
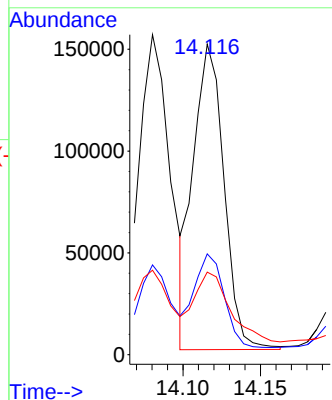
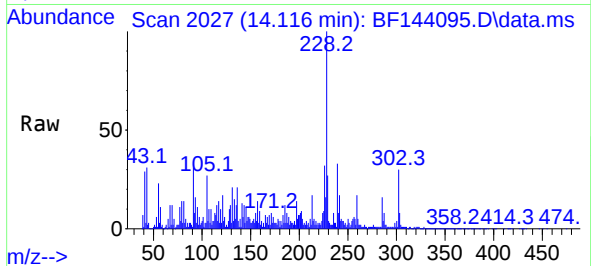




#83
Chrysene
Concen: 21.947 ng
RT: 14.116 min Scan# 20
Delta R.T. 0.030 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

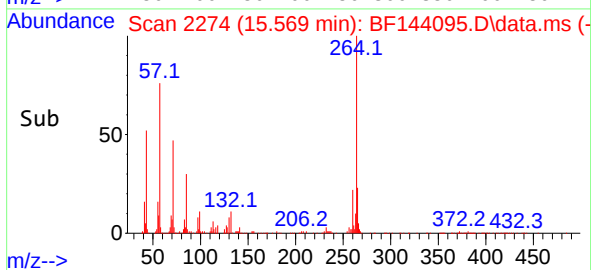
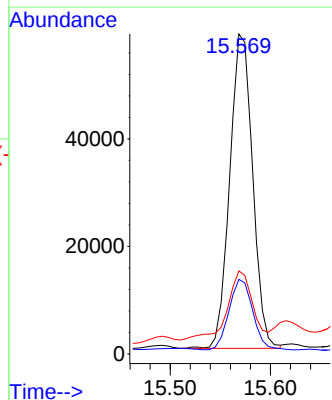
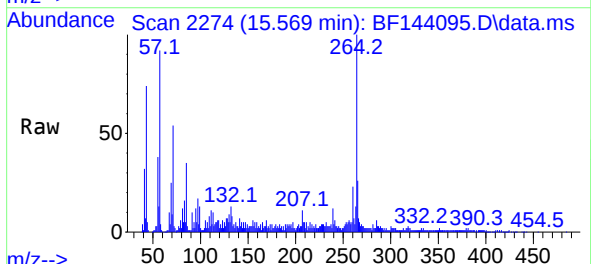
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

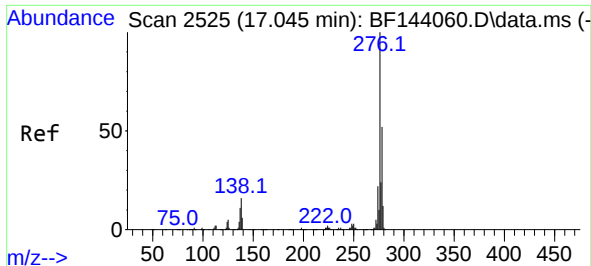
Tgt Ion:228 Resp: 206519
Ion Ratio Lower Upper
228 100
226 32.5 23.8 35.6
229 26.6 15.6 23.4#



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.569 min Scan# 2274
Delta R.T. 0.030 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion:264 Resp: 92727
Ion Ratio Lower Upper
264 100
260 23.3 17.0 25.4
265 25.9 16.6 24.8#

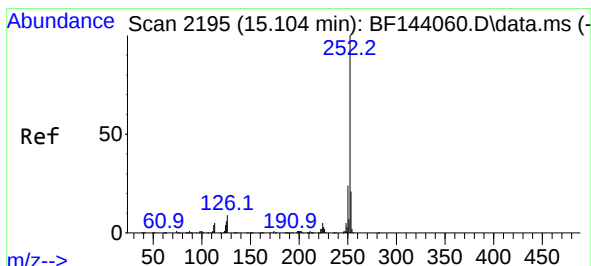
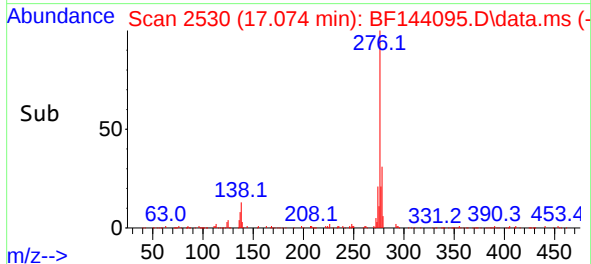
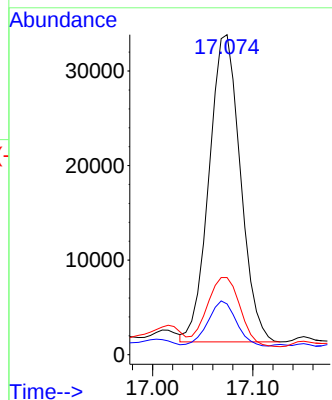
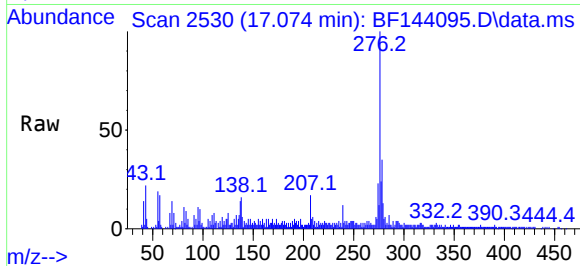




#87
Indeno(1,2,3-cd)pyrene
Concen: 11.062 ng
RT: 17.074 min Scan# 21
Delta R.T. 0.030 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

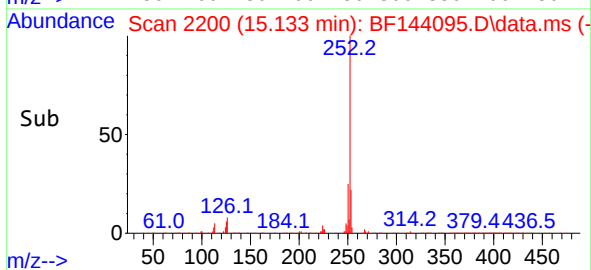
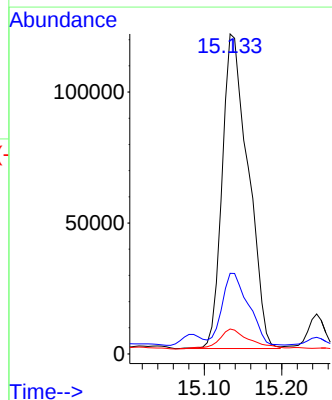
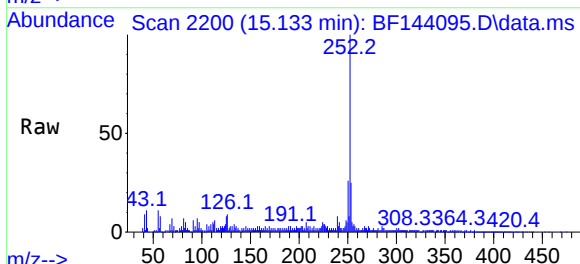
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

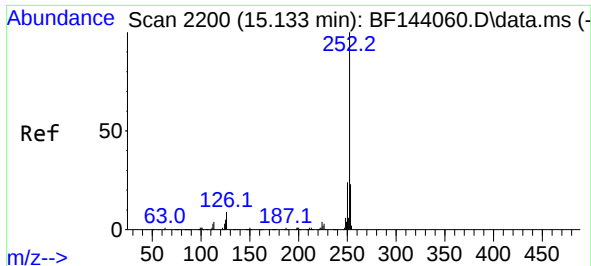
Tgt Ion:	276	Resp:	70422
Ion Ratio	Lower	Upper	
276	100		
138	15.4	13.0	19.6
277	24.2	19.4	29.0



#88
Benzo(b)fluoranthene
Concen: 53.473 ng
RT: 15.133 min Scan# 2200
Delta R.T. 0.030 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion:	252	Resp:	280312
Ion Ratio	Lower	Upper	
252	100		
253	25.2	17.2	25.8
125	7.8	5.0	7.6#

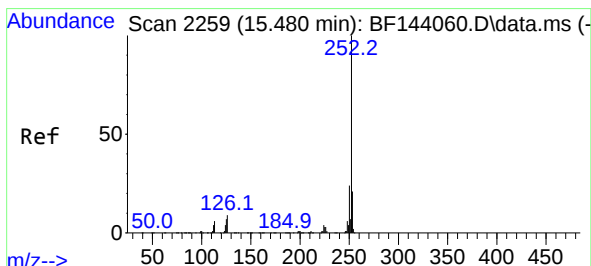
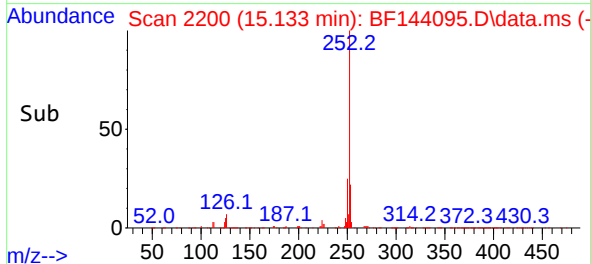
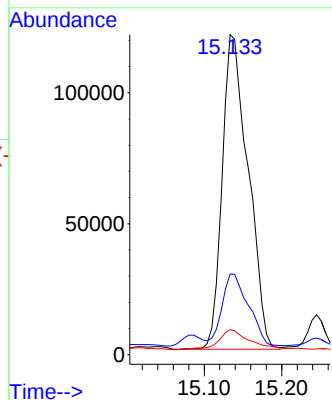
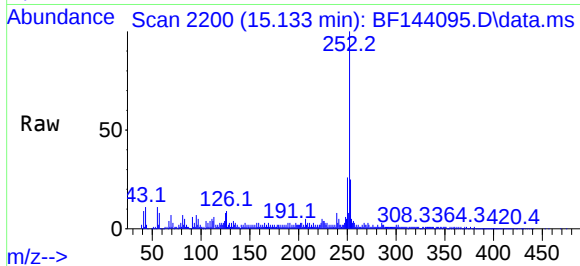




#89
Benzo(k)fluoranthene
Concen: 57.957 ng
RT: 15.133 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

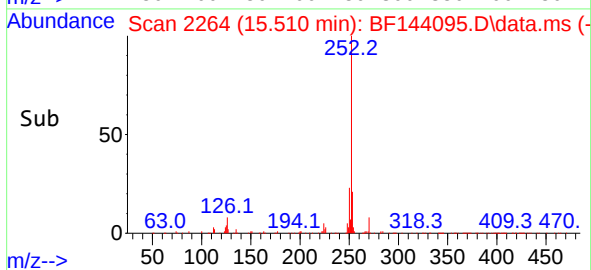
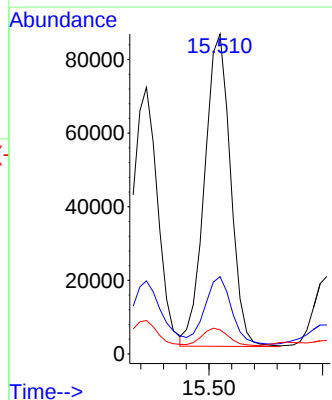
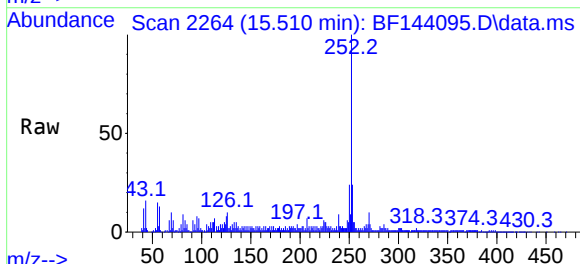
Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

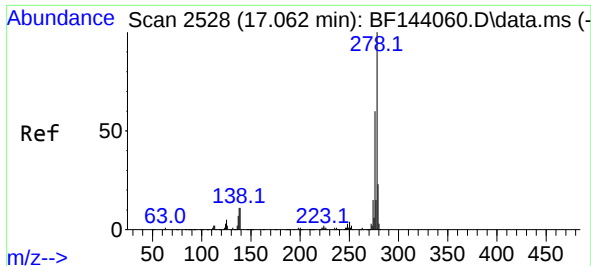
Tgt Ion:252 Resp: 280312
Ion Ratio Lower Upper
252 100
253 25.2 17.4 26.2
125 7.8 4.9 7.3#



#90
Benzo(a)pyrene
Concen: 28.631 ng
RT: 15.510 min Scan# 2264
Delta R.T. 0.030 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion:252 Resp: 134648
Ion Ratio Lower Upper
252 100
253 24.2 17.1 25.7
125 7.5 5.4 8.2

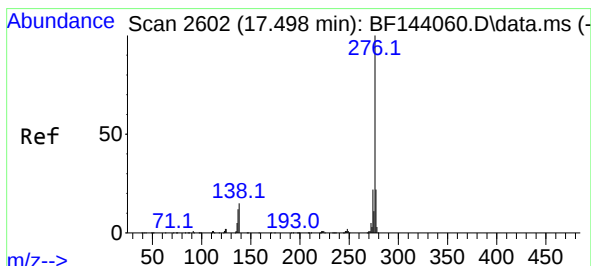
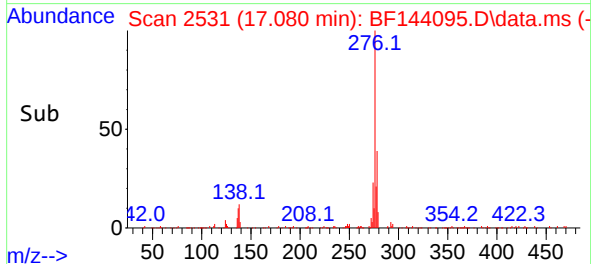
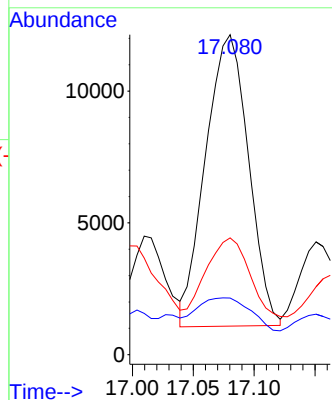
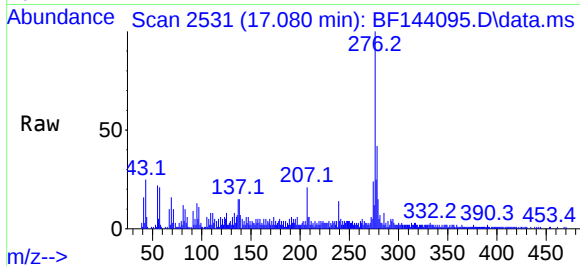




#91
Dibenzo(a,h)anthracene
Concen: 5.380 ng
RT: 17.080 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Instrument :
BNA_F
ClientSampleId :
P001-TW4-251023-01

Tgt Ion:278 Resp: 27110
Ion Ratio Lower Upper
278 100
139 17.7 8.5 12.7#
279 36.5 18.6 28.0#



#92
Benzo(g,h,i)perylene
Concen: 17.372 ng
RT: 17.527 min Scan# 2607
Delta R.T. 0.030 min
Lab File: BF144095.D
Acq: 27 Oct 2025 21:02

Tgt Ion:276 Resp: 88017
Ion Ratio Lower Upper
276 100
277 24.8 17.9 26.9
138 17.4 12.0 18.0

