

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061225\
 Data File : BF142764.D
 Acq On : 12 Jun 2025 18:27
 Operator : RC/JU
 Sample : Q2224-01 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-01-06042025

Quant Time: Jun 13 01:00:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 11 05:56:09 2025
 Response via : Initial Calibration

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

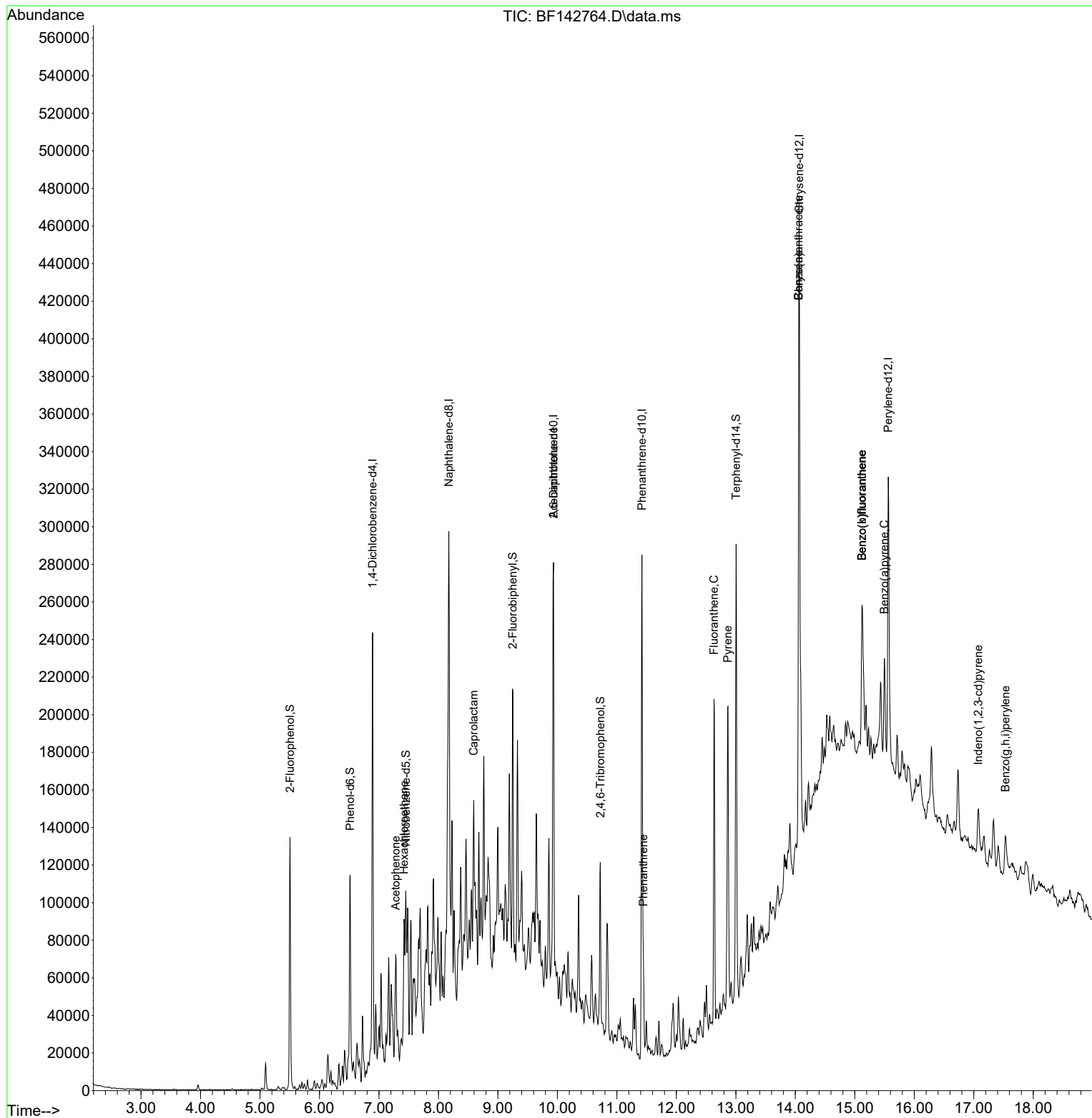
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	44300	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	137605	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	68198	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	138909	20.000	ng	0.00
76) Chrysene-d12	14.068	240	136909	20.000	ng	0.00
86) Perylene-d12	15.562	264	93901	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	53707	20.648	ng	0.00
7) Phenol-d6	6.516	99	55620	18.170	ng	0.00
23) Nitrobenzene-d5	7.451	82	32505	12.928	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	15342	20.526	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	70734	13.780	ng	0.00
79) Terphenyl-d14	13.004	244	111181	11.153	ng	0.00
Target Compounds						
						Qvalue
18) Hexachloroethane	7.422	117	2494	2.123	ng	# 1
22) Acetophenone	7.281	105	10546	3.445	ng	# 49
35) Caprolactam	8.592	113	4205	7.961	ng	# 1
51) 2,6-Dinitrotoluene	9.933	165	9941	10.100	ng	# 30
71) Phenanthrene	11.445	178	27356	3.676	ng	99
75) Fluoranthene	12.633	202	100760	14.239	ng	98
78) Pyrene	12.863	202	95601	7.514	ng	98
81) Benzo(a)anthracene	14.057	228	59654	6.575	ng	93
83) Chrysene	14.057	228	59654	7.122	ng	97
87) Indeno(1,2,3-cd)pyrene	17.074	276	18778	2.699	ng	96
88) Benzo(b)fluoranthene	15.121	252	64800	11.720	ng	# 92
89) Benzo(k)fluoranthene	15.121	252	64800	12.079	ng	# 91
90) Benzo(a)pyrene	15.498	252	31759	6.041	ng	# 88
92) Benzo(g,h,i)perylene	17.533	276	18449	3.265	ng	92

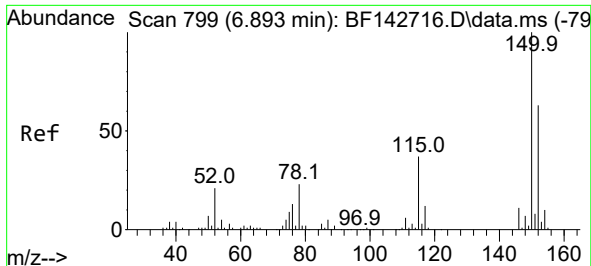
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 13 01:00:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

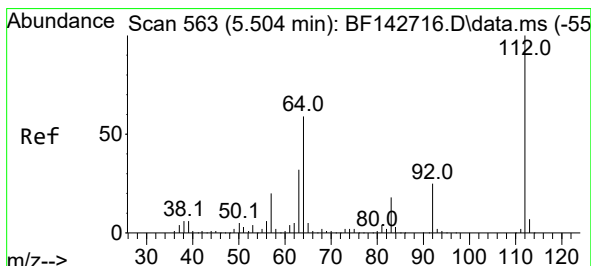
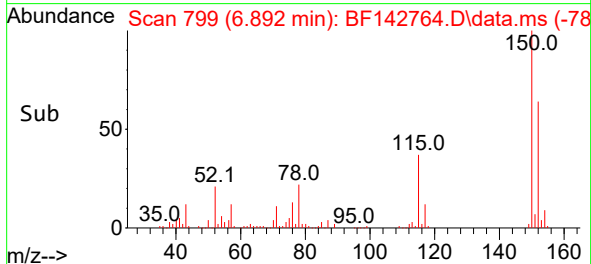
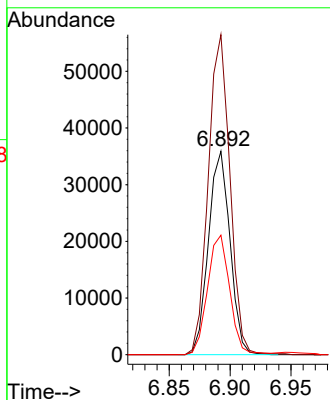
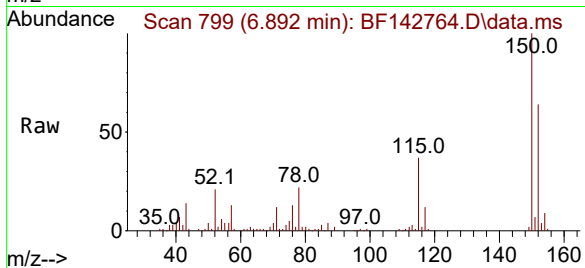




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 799
Delta R.T. -0.001 min
Lab File: BF142764.D
Acq: 12 Jun 2025 18:27

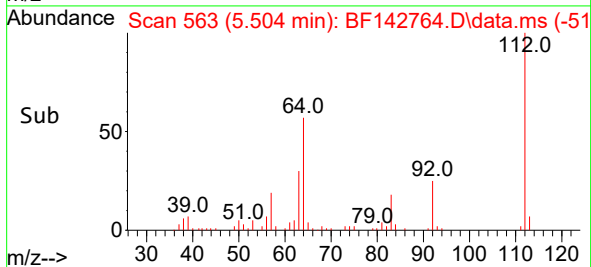
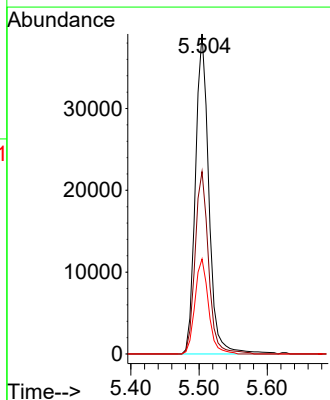
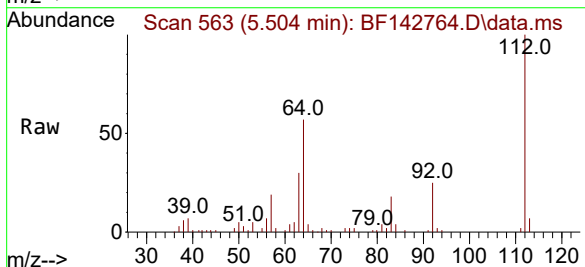
Instrument :
BNA_F
ClientSampleId :
EO-01-06042025

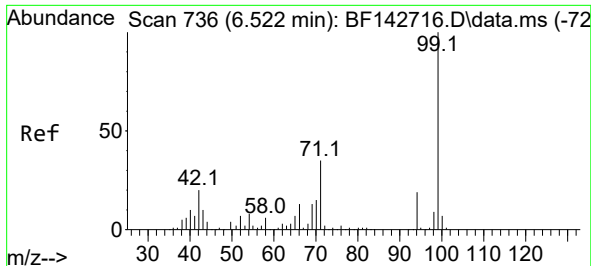
Tgt Ion:152 Resp: 44300
Ion Ratio Lower Upper
152 100
150 157.3 126.9 190.3
115 58.7 47.0 70.6



#5
2-Fluorophenol
Concen: 20.648 ng
RT: 5.504 min Scan# 563
Delta R.T. 0.000 min
Lab File: BF142764.D
Acq: 12 Jun 2025 18:27

Tgt Ion:112 Resp: 53707
Ion Ratio Lower Upper
112 100
64 57.0 47.4 71.2
63 29.7 25.4 38.0

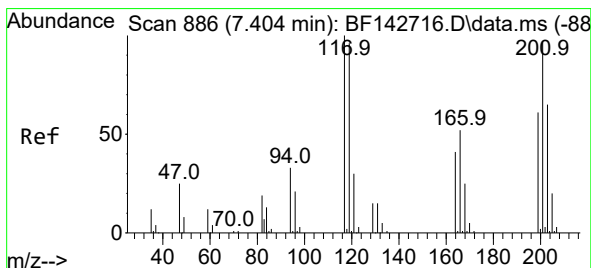
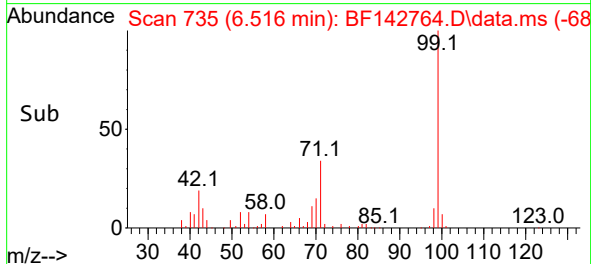
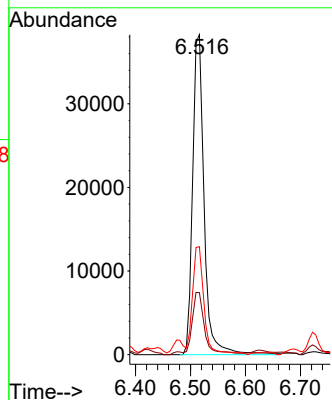
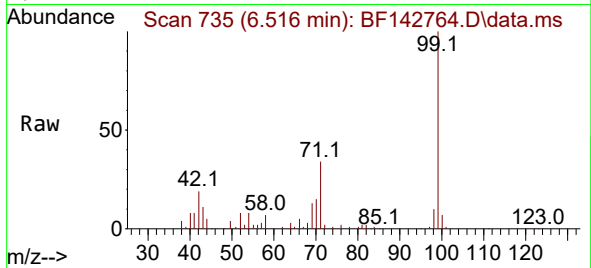




#7
Phenol-d6
Concen: 18.170 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142764.D
Acq: 12 Jun 2025 18:27

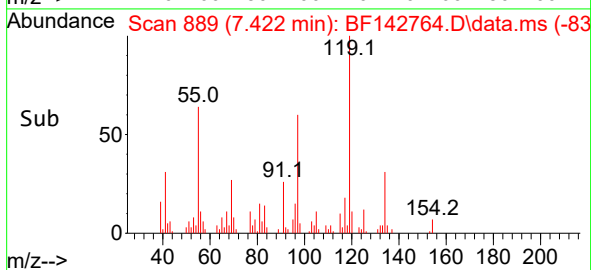
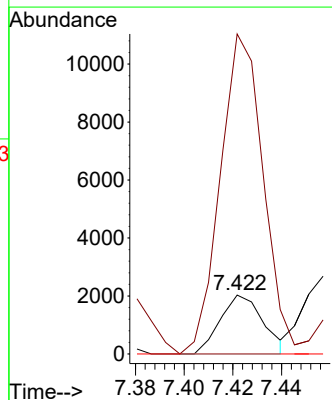
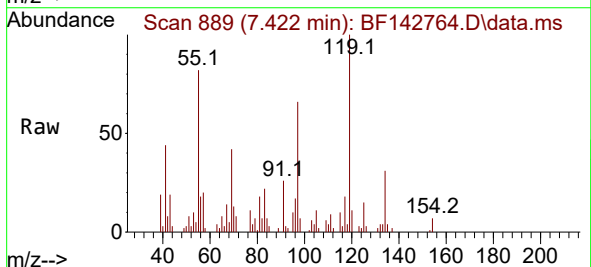
Instrument :
BNA_F
ClientSampleId :
EO-01-06042025

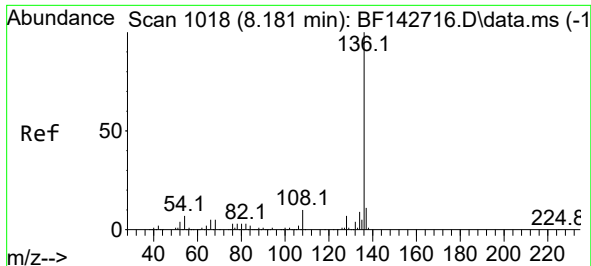
Tgt Ion: 99 Resp: 55620
Ion Ratio Lower Upper
99 100
42 19.4 15.9 23.9
71 33.7 28.0 42.0



#18
Hexachloroethane
Concen: 2.123 ng
RT: 7.422 min Scan# 889
Delta R.T. 0.018 min
Lab File: BF142764.D
Acq: 12 Jun 2025 18:27

Tgt Ion: 117 Resp: 2494
Ion Ratio Lower Upper
117 100
119 542.9 76.4 114.6#
201 0.0 77.8 116.6#

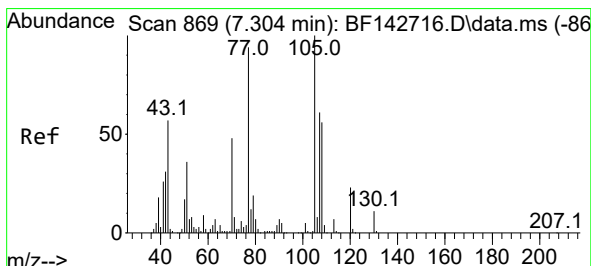
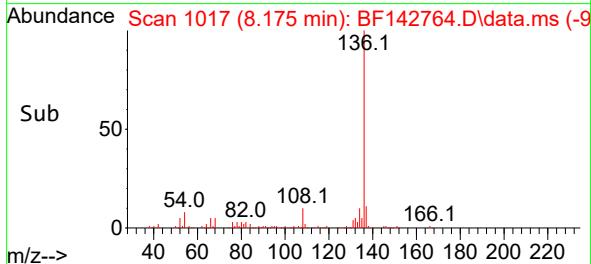
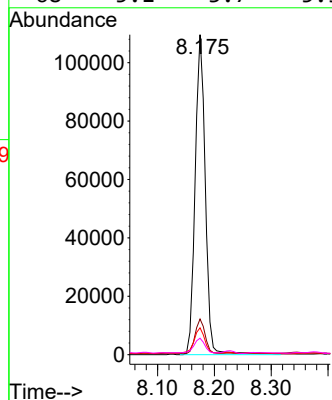
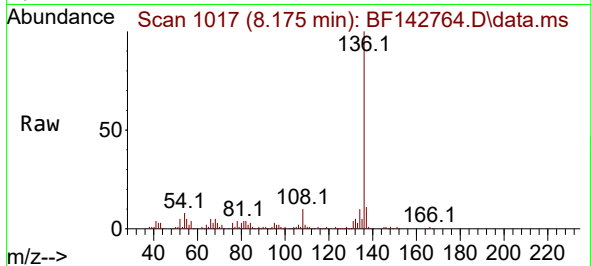




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF142764.D
Acq: 12 Jun 2025 18:27

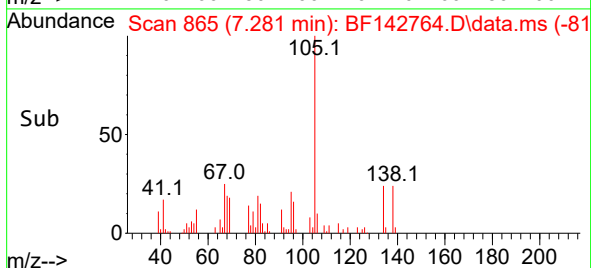
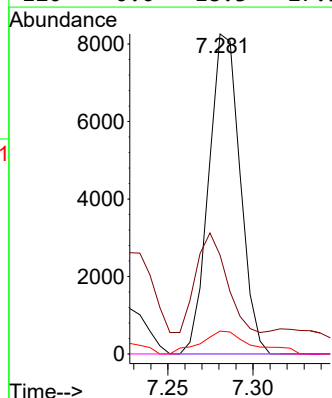
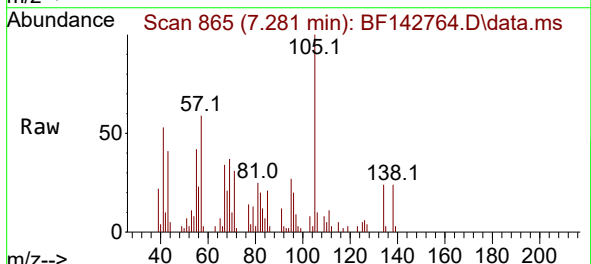
Instrument :
BNA_F
ClientSampleId :
EO-01-06042025

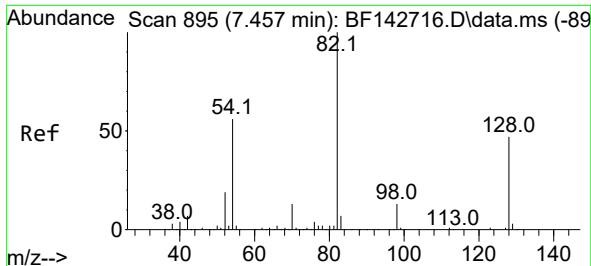
Tgt Ion:136 Resp: 137605
Ion Ratio Lower Upper
136 100
137 11.1 8.7 13.1
54 8.4 5.9 8.9
68 5.1 3.7 5.5



#22
Acetophenone
Concen: 3.445 ng
RT: 7.281 min Scan# 865
Delta R.T. -0.024 min
Lab File: BF142764.D
Acq: 12 Jun 2025 18:27

Tgt Ion:105 Resp: 10546
Ion Ratio Lower Upper
105 100
71 30.9 6.4 9.6#
51 7.2 29.1 43.7#
120 0.0 18.3 27.5#

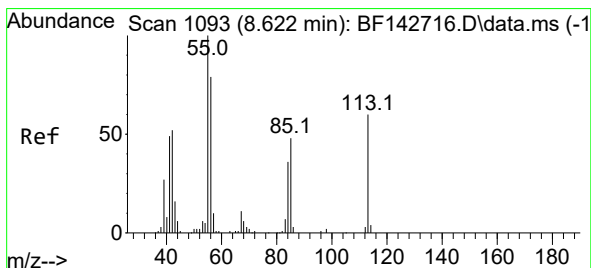
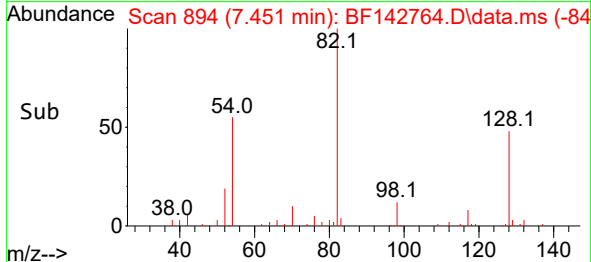
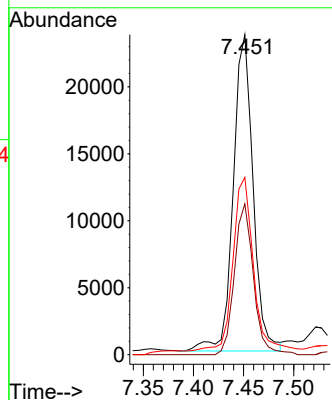
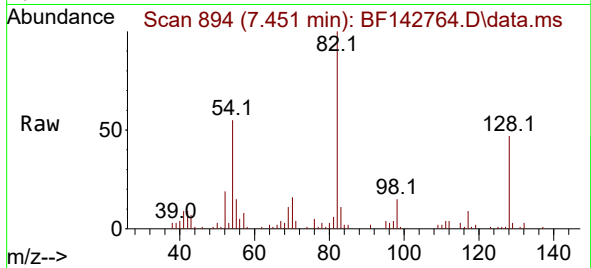




#23
Nitrobenzene-d5
Concen: 12.928 ng
RT: 7.451 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF142764.D
Acq: 12 Jun 2025 18:27

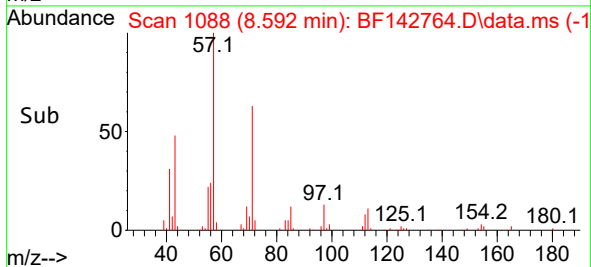
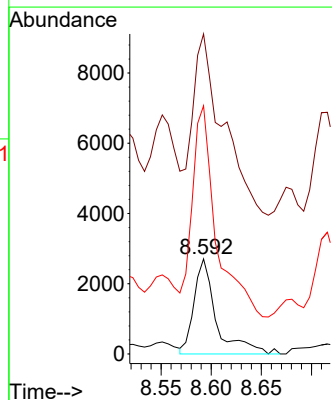
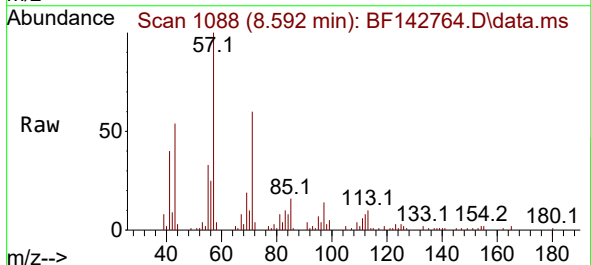
Instrument :
BNA_F
ClientSampleId :
EO-01-06042025

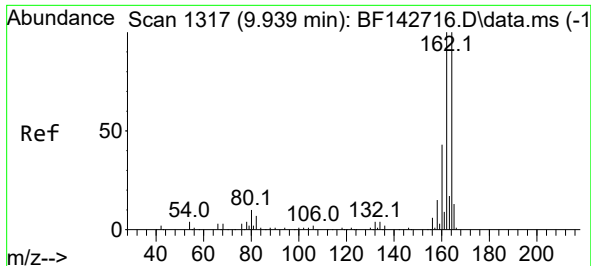
Tgt Ion: 82 Resp: 32505
Ion Ratio Lower Upper
82 100
128 47.2 37.8 56.8
54 55.4 44.9 67.3



#35
Caprolactam
Concen: 7.961 ng
RT: 8.592 min Scan# 1088
Delta R.T. -0.030 min
Lab File: BF142764.D
Acq: 12 Jun 2025 18:27

Tgt Ion: 113 Resp: 4205
Ion Ratio Lower Upper
113 100
55 336.9 147.9 187.9#
56 261.3 111.9 151.9#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.933 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142764.D

Acq: 12 Jun 2025 18:27

Instrument :

BNA_F

ClientSampleId :

EO-01-06042025

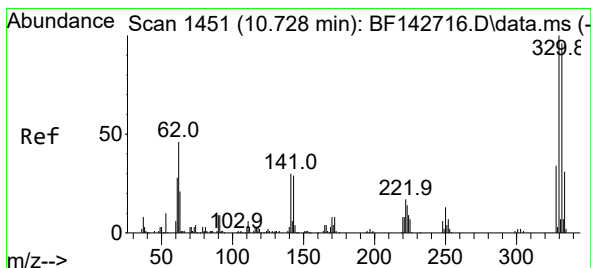
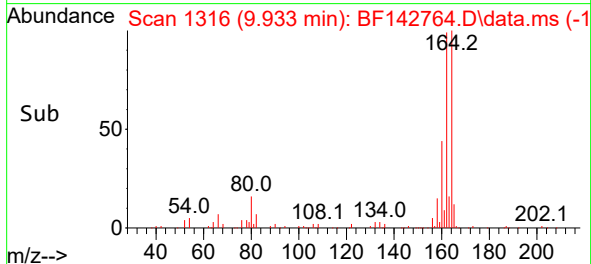
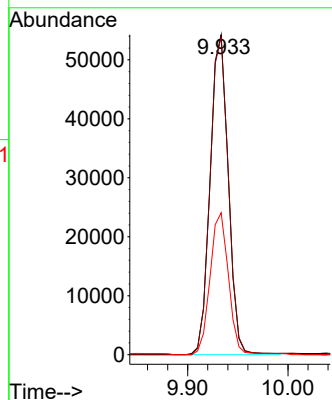
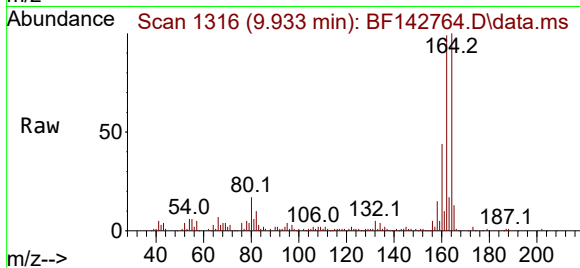
Tgt Ion:164 Resp: 68198

Ion Ratio Lower Upper

164 100

162 99.3 79.9 119.9

160 44.4 34.8 52.2



#42

2,4,6-Tribromophenol

Concen: 20.526 ng

RT: 10.722 min Scan# 1450

Delta R.T. -0.006 min

Lab File: BF142764.D

Acq: 12 Jun 2025 18:27

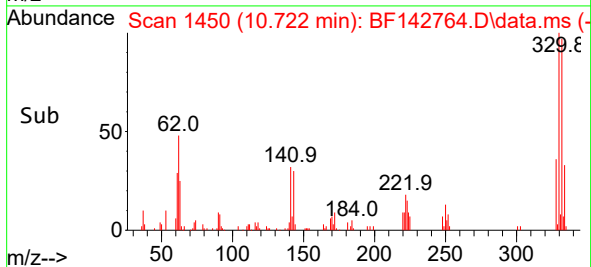
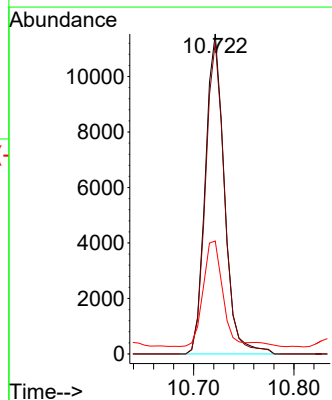
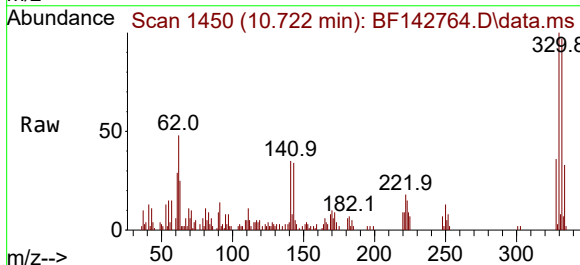
Tgt Ion:330 Resp: 15342

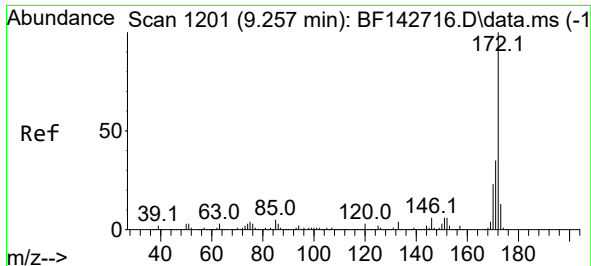
Ion Ratio Lower Upper

330 100

332 96.7 77.0 115.6

141 35.4 25.4 38.0





#45

2-Fluorobiphenyl

Concen: 13.780 ng

RT: 9.251 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF142764.D

Acq: 12 Jun 2025 18:27

Instrument :

BNA_F

ClientSampleId :

EO-01-06042025

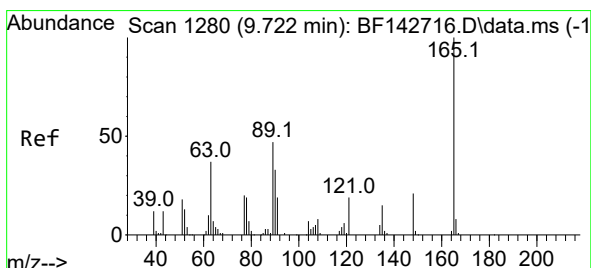
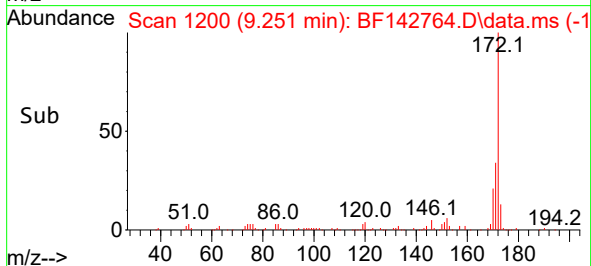
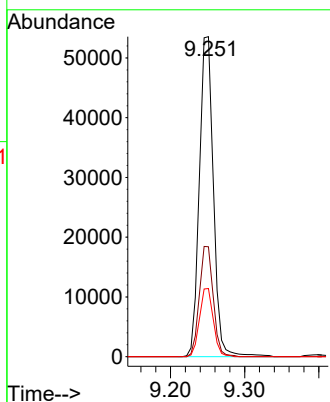
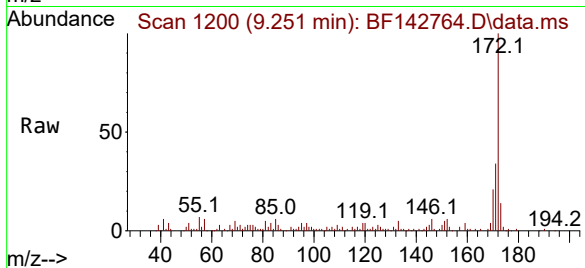
Tgt Ion:172 Resp: 70734

Ion Ratio Lower Upper

172 100

171 34.4 28.1 42.1

170 21.3 18.6 27.8



#51

2,6-Dinitrotoluene

Concen: 10.100 ng

RT: 9.933 min Scan# 1316

Delta R.T. 0.212 min

Lab File: BF142764.D

Acq: 12 Jun 2025 18:27

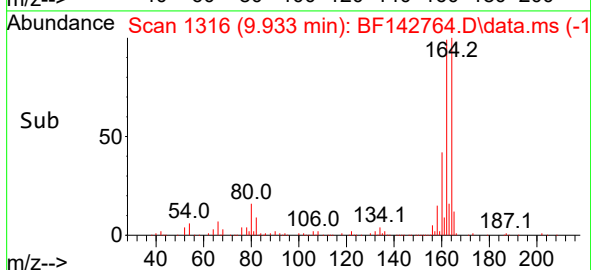
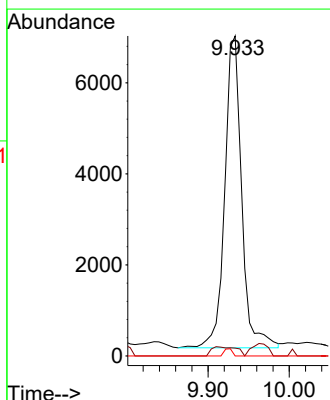
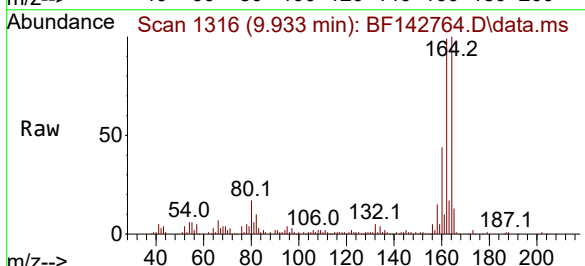
Tgt Ion:165 Resp: 9941

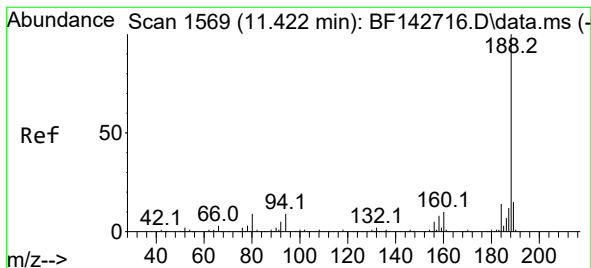
Ion Ratio Lower Upper

165 100

63 2.5 40.6 60.8#

89 0.0 37.6 56.4#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.422 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF142764.D

Acq: 12 Jun 2025 18:27

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EO-01-06042025

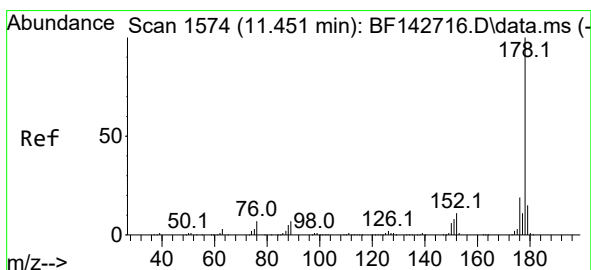
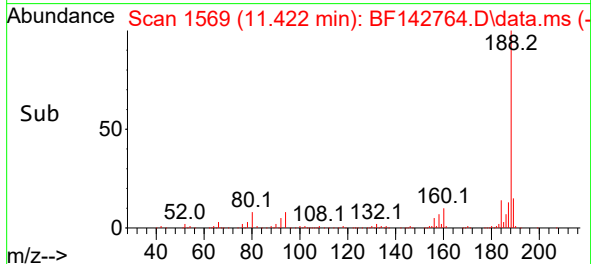
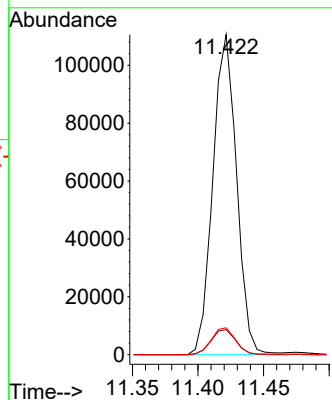
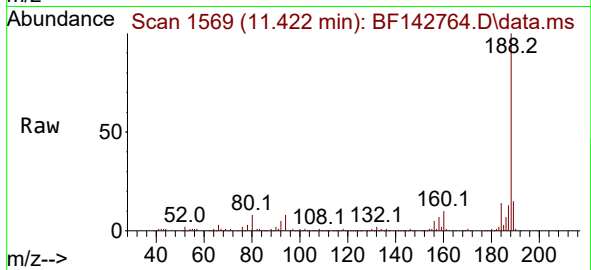
Tgt Ion:188 Resp: 138909

Ion Ratio Lower Upper

188 100

94 7.9 6.8 10.2

80 8.4 7.1 10.7



#71

Phenanthrene

Concen: 3.676 ng

RT: 11.445 min Scan# 1573

Delta R.T. -0.006 min

Lab File: BF142764.D

Acq: 12 Jun 2025 18:27

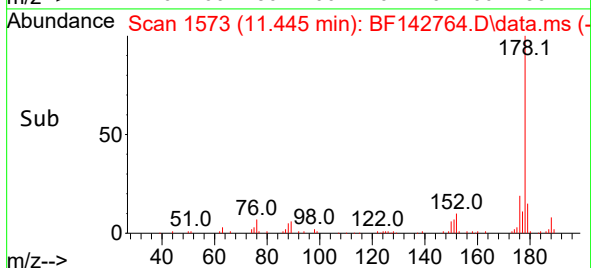
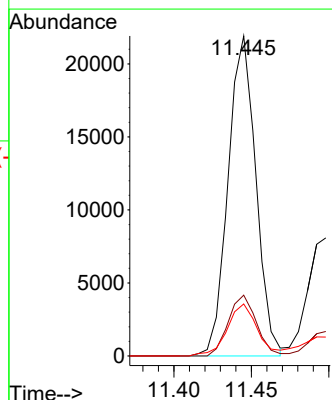
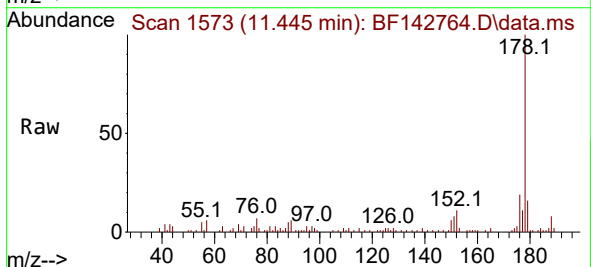
Tgt Ion:178 Resp: 27356

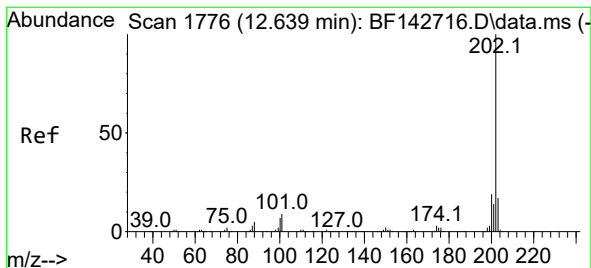
Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

179 16.3 12.2 18.4





#75

Fluoranthene

Concen: 14.239 ng

RT: 12.633 min Scan# 1775

Delta R.T. -0.006 min

Lab File: BF142764.D

Acq: 12 Jun 2025 18:27

Instrument :

BNA_F

ClientSampleId :

EO-01-06042025

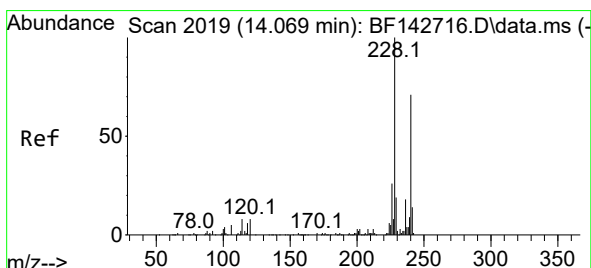
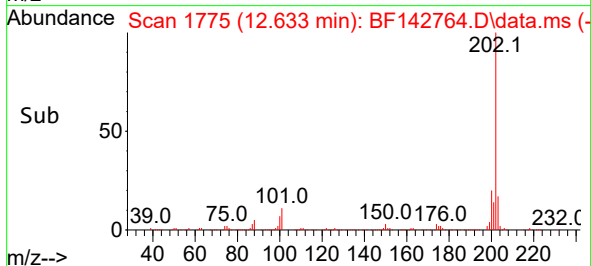
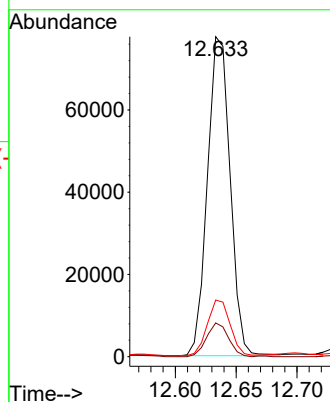
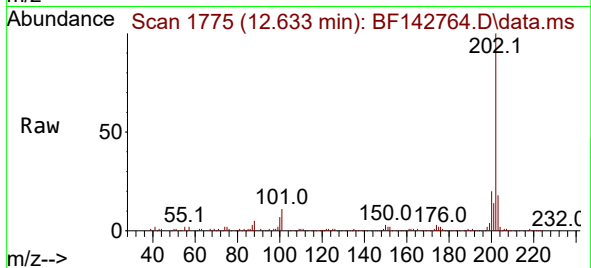
Tgt Ion:202 Resp: 100760

Ion Ratio Lower Upper

202 100

101 10.5 0.0 29.5

203 17.7 0.0 37.0



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.068 min Scan# 2019

Delta R.T. -0.000 min

Lab File: BF142764.D

Acq: 12 Jun 2025 18:27

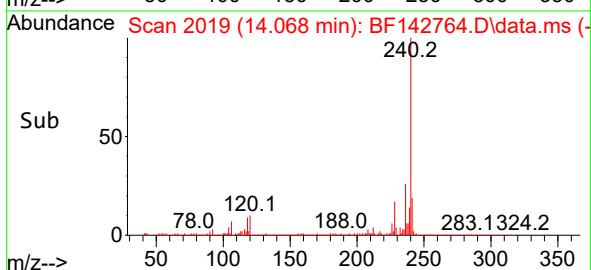
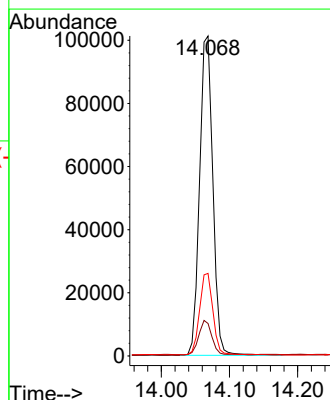
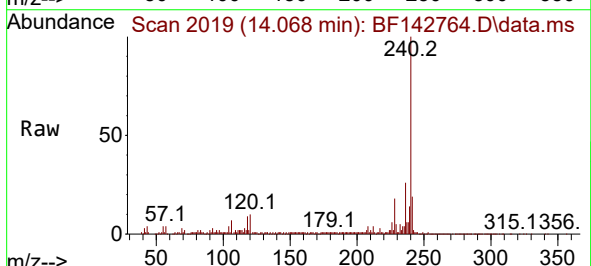
Tgt Ion:240 Resp: 136909

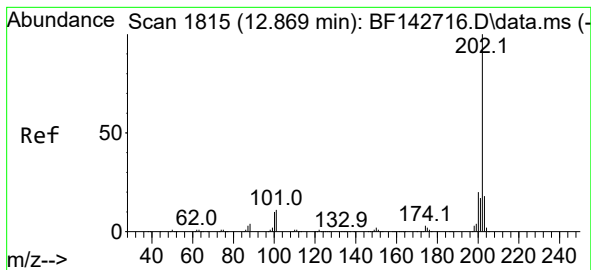
Ion Ratio Lower Upper

240 100

120 10.1 8.5 12.7

236 25.8 20.1 30.1





#78

Pyrene

Concen: 7.514 ng

RT: 12.863 min Scan# 1814

Delta R.T. -0.006 min

Lab File: BF142764.D

Acq: 12 Jun 2025 18:27

Instrument :

BNA_F

ClientSampleId :

EO-01-06042025

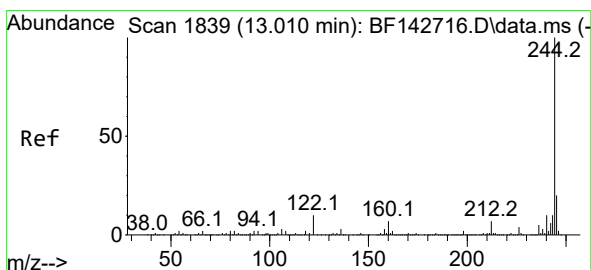
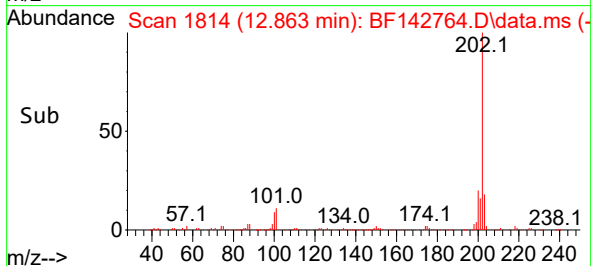
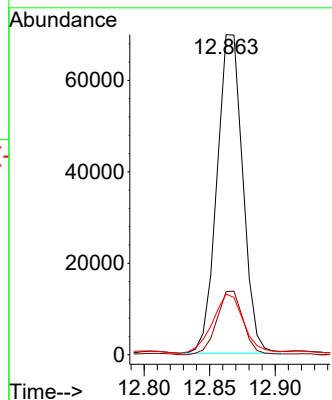
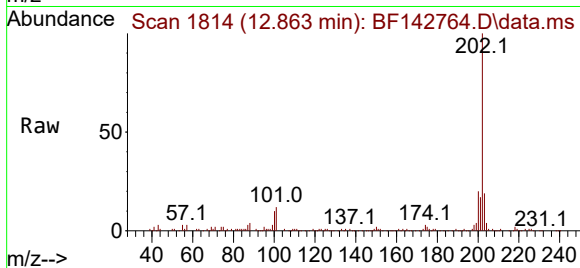
Tgt Ion:202 Resp: 95601

Ion Ratio Lower Upper

202 100

200 19.7 15.8 23.8

203 18.9 14.1 21.1



#79

Terphenyl-d14

Concen: 11.153 ng

RT: 13.004 min Scan# 1838

Delta R.T. -0.006 min

Lab File: BF142764.D

Acq: 12 Jun 2025 18:27

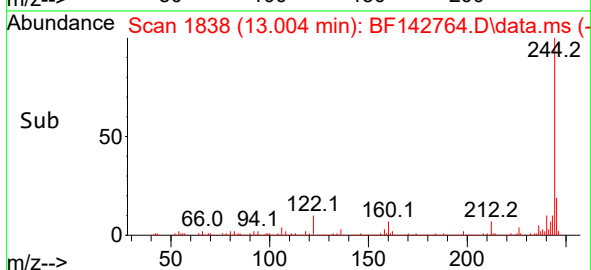
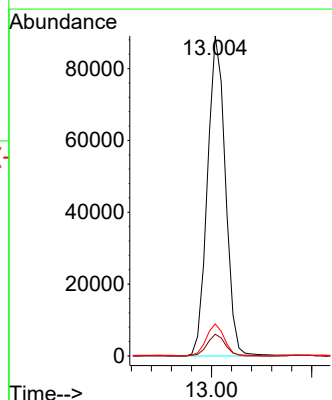
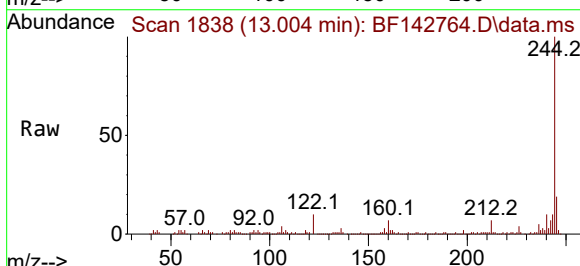
Tgt Ion:244 Resp: 111181

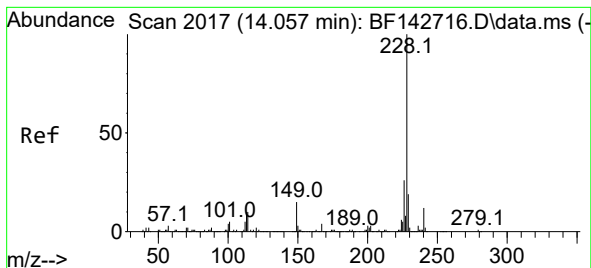
Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

122 10.0 8.3 12.5





#81

Benzo(a)anthracene

Concen: 6.575 ng

RT: 14.057 min Scan# 2017

Delta R.T. -0.000 min

Lab File: BF142764.D

Acq: 12 Jun 2025 18:27

Instrument :

BNA_F

ClientSampleId :

EO-01-06042025

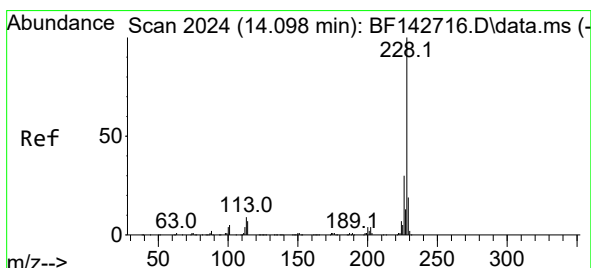
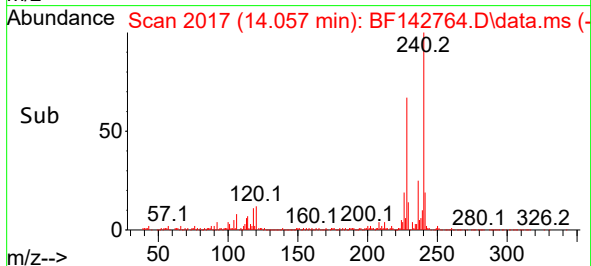
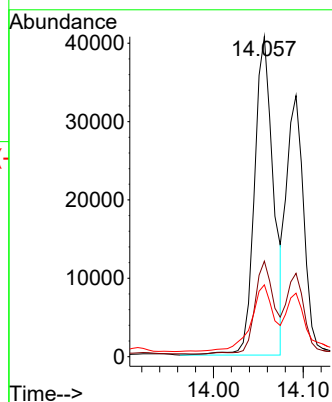
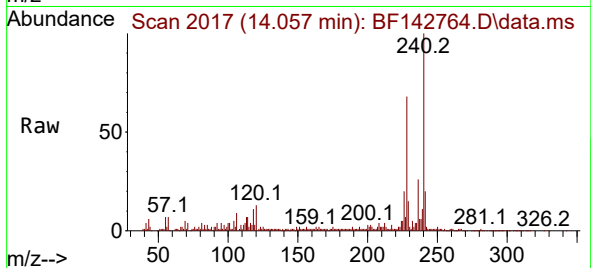
Tgt Ion:228 Resp: 59654

Ion Ratio Lower Upper

228 100

226 29.8 21.0 31.4

229 22.4 15.5 23.3



#83

Chrysene

Concen: 7.122 ng

RT: 14.057 min Scan# 2017

Delta R.T. -0.041 min

Lab File: BF142764.D

Acq: 12 Jun 2025 18:27

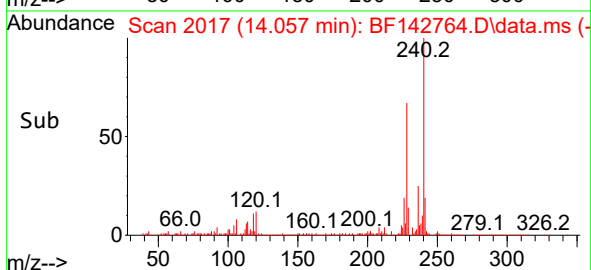
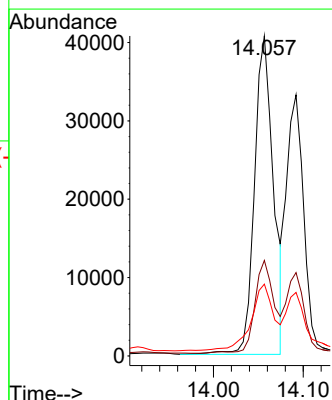
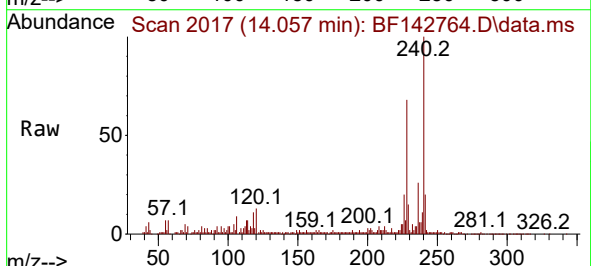
Tgt Ion:228 Resp: 59654

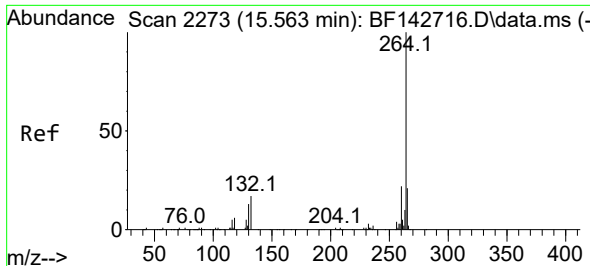
Ion Ratio Lower Upper

228 100

226 29.8 23.6 35.4

229 22.4 15.5 23.3

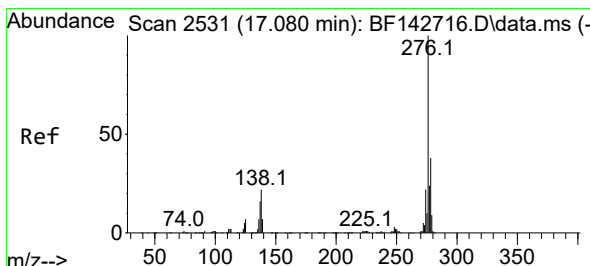
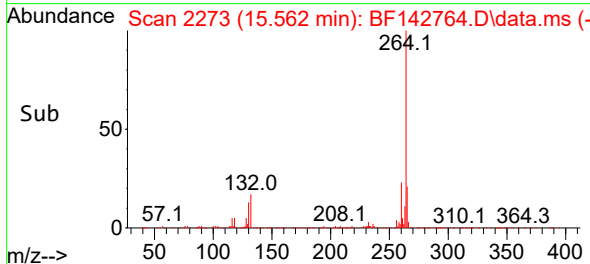
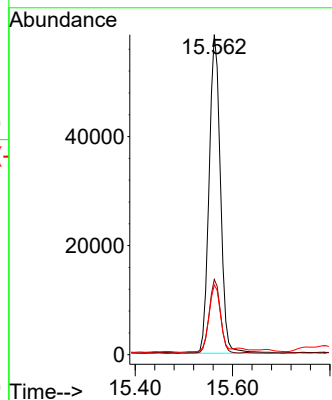
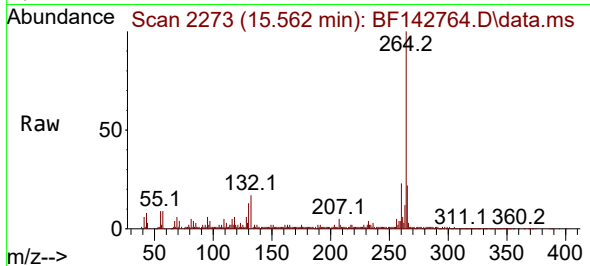




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF142764.D
Acq: 12 Jun 2025 18:27

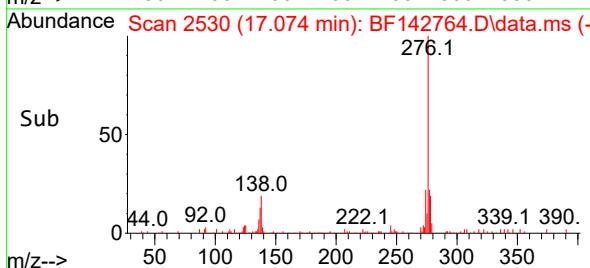
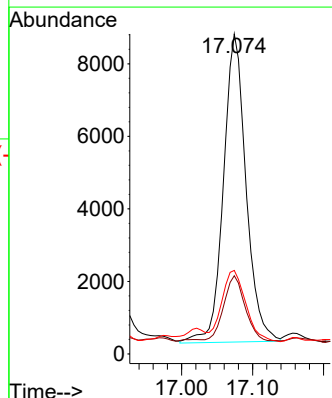
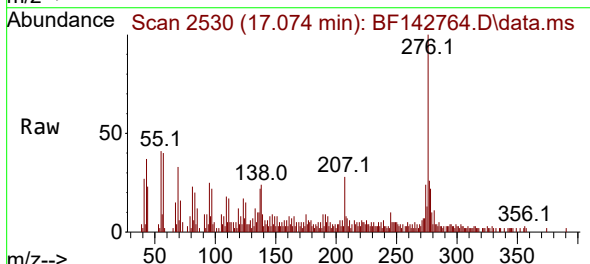
Instrument :
BNA_F
ClientSampleId :
EO-01-06042025

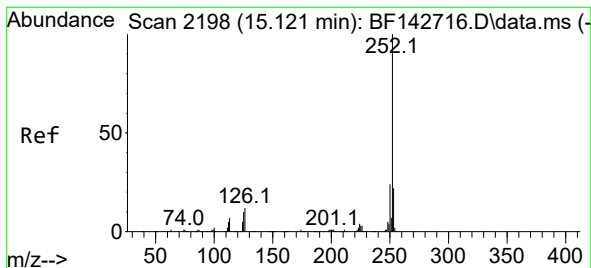
Tgt Ion:	264	Resp:	93901
Ion Ratio	Lower	Upper	
264	100		
260	23.5	17.8	26.6
265	21.8	16.6	25.0



#87
Indeno(1,2,3-cd)pyrene
Concen: 2.699 ng
RT: 17.074 min Scan# 2530
Delta R.T. -0.006 min
Lab File: BF142764.D
Acq: 12 Jun 2025 18:27

Tgt Ion:	276	Resp:	18778
Ion Ratio	Lower	Upper	
276	100		
138	21.0	19.3	28.9
277	24.4	20.2	30.2





#88

Benzo(b)fluoranthene

Concen: 11.720 ng

RT: 15.121 min Scan# 2198

Delta R.T. -0.000 min

Lab File: BF142764.D

Acq: 12 Jun 2025 18:27

Instrument :

BNA_F

ClientSampleId :

EO-01-06042025

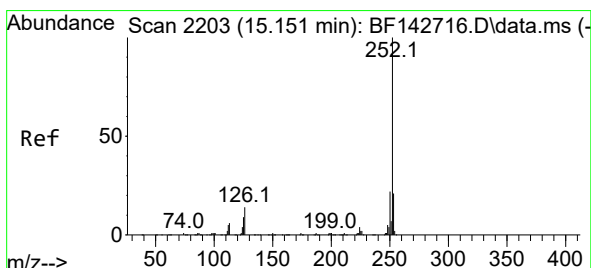
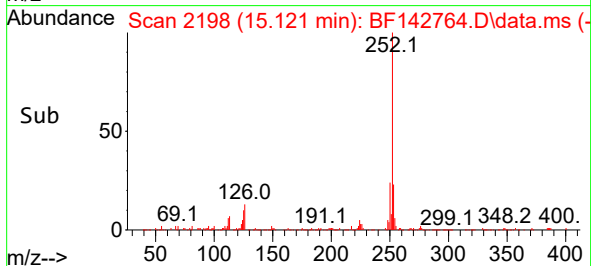
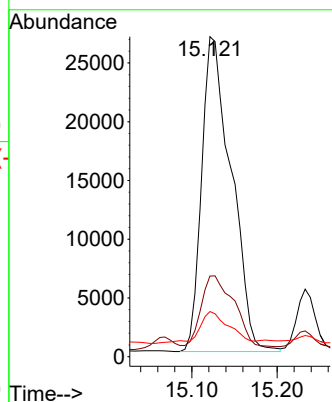
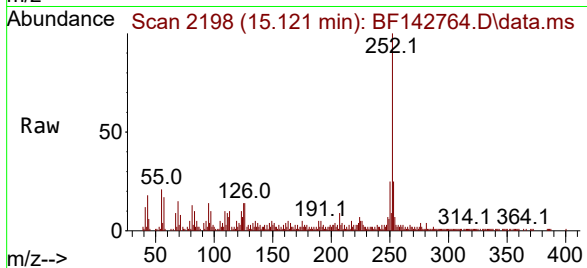
Tgt Ion:252 Resp: 64800

Ion Ratio Lower Upper

252 100

253 25.2 17.7 26.5

125 14.1 7.8 11.6#



#89

Benzo(k)fluoranthene

Concen: 12.079 ng

RT: 15.121 min Scan# 2198

Delta R.T. -0.030 min

Lab File: BF142764.D

Acq: 12 Jun 2025 18:27

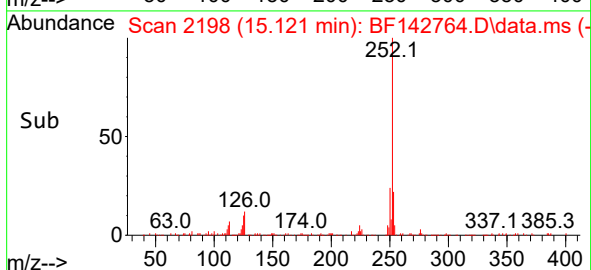
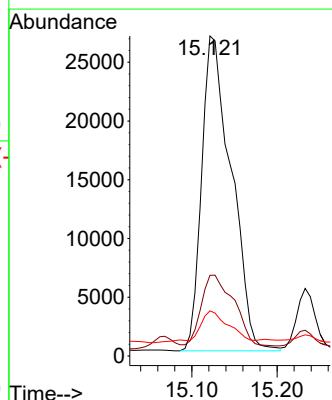
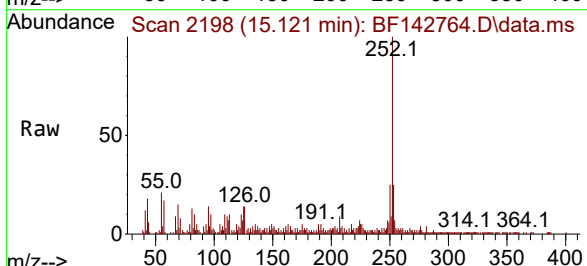
Tgt Ion:252 Resp: 64800

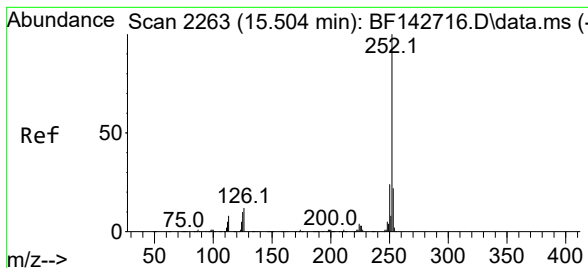
Ion Ratio Lower Upper

252 100

253 25.2 17.3 25.9

125 14.1 7.5 11.3#





#90

Benzo(a)pyrene

Concen: 6.041 ng

RT: 15.498 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142764.D

Acq: 12 Jun 2025 18:27

Instrument :

BNA_F

ClientSampleId :

EO-01-06042025

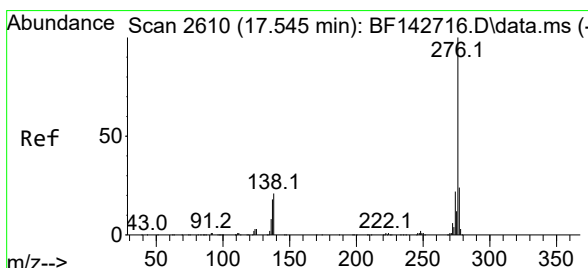
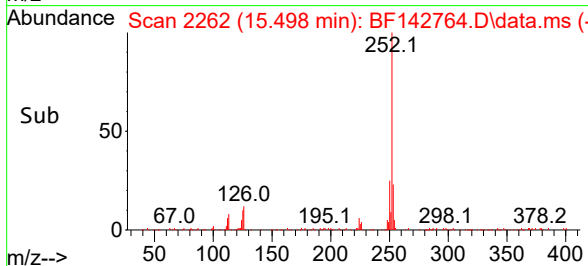
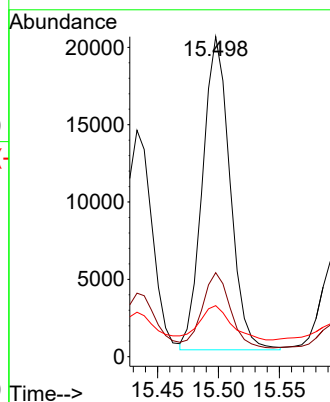
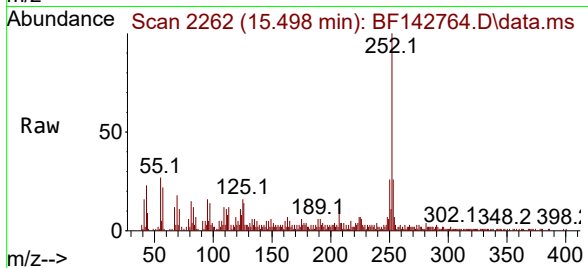
Tgt Ion:252 Resp: 31759

Ion Ratio Lower Upper

252 100

253 26.3 17.3 25.9#

125 16.0 8.0 12.0#



#92

Benzo(g,h,i)perylene

Concen: 3.265 ng

RT: 17.533 min Scan# 2608

Delta R.T. -0.012 min

Lab File: BF142764.D

Acq: 12 Jun 2025 18:27

Tgt Ion:276 Resp: 18449

Ion Ratio Lower Upper

276 100

277 27.8 18.8 28.2

138 23.3 16.4 24.6

