

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062625\
 Data File : BF142876.D
 Acq On : 26 Jun 2025 19:04
 Operator : RC/JU
 Sample : Q2403-07
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ARS 20-0006

Quant Time: Jun 27 01:21:12 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 24 05:28:21 2025
 Response via : Initial Calibration

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

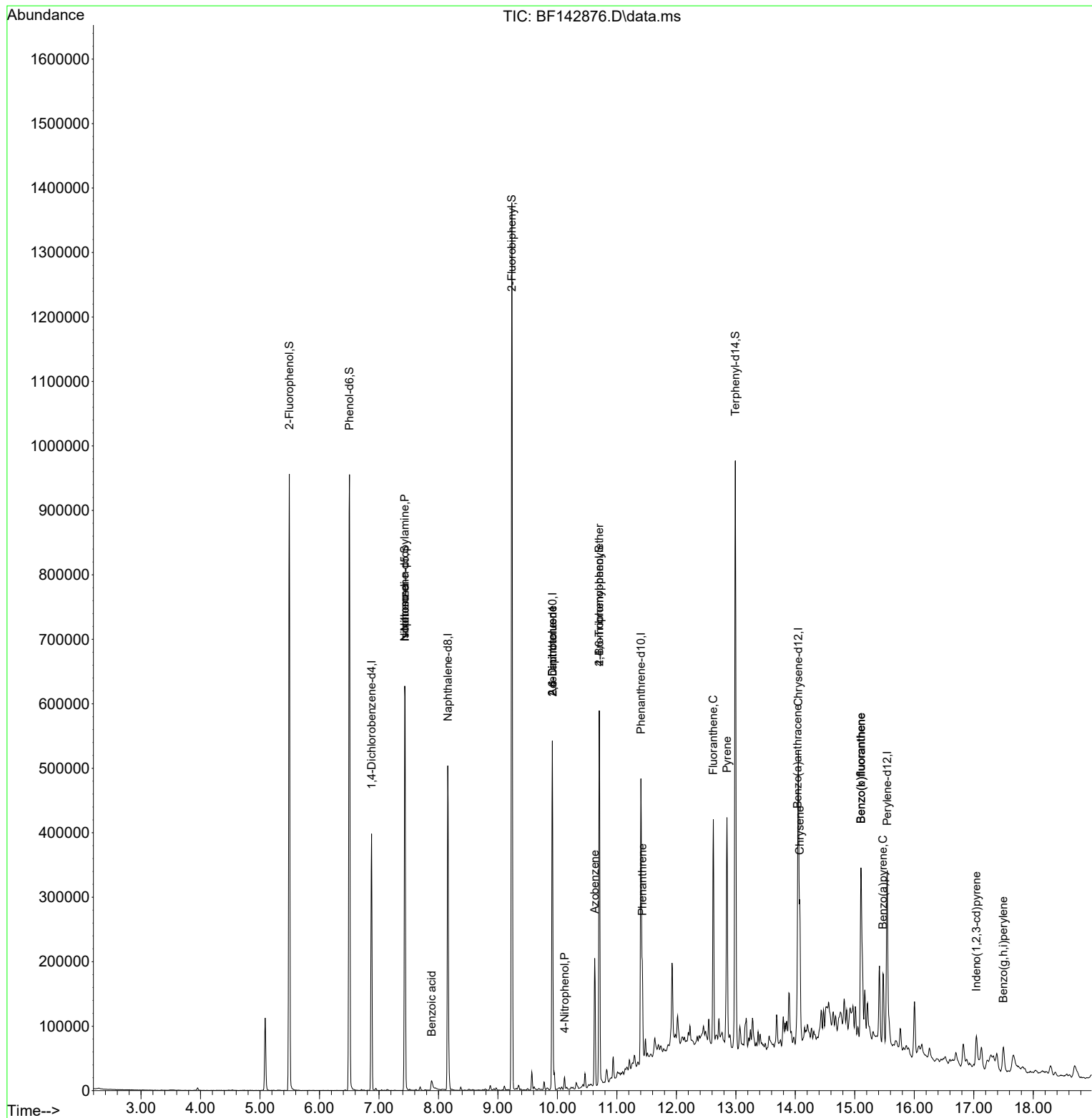
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	87034	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	322132	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	159759	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	225267	20.000	ng	0.00
76) Chrysene-d12	14.051	240	161696	20.000	ng	0.00
86) Perylene-d12	15.545	264	155481	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	360799	69.019	ng	0.00
7) Phenol-d6	6.504	99	453142	73.473	ng	0.00
23) Nitrobenzene-d5	7.434	82	271514	46.232	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	95762	58.248	ng	-0.01
45) 2-Fluorobiphenyl	9.234	172	606664	49.885	ng	-0.01
79) Terphenyl-d14	12.992	244	432893	36.991	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.434	70	37339	10.410	ng	# 75
25) Isophorone	7.434	82	271556	28.824	ng	# 62
32) Benzoic acid	7.887	122	7127	2.788	ng	98
51) 2,6-Dinitrotoluene	9.916	165	20603	9.072	ng	# 27
56) 4-Nitrophenol	10.122	139	3535	2.065	ng	# 10
57) 2,4-Dinitrotoluene	9.916	165	20603	6.830	ng	# 28
63) Azobenzene	10.628	77	45338	5.003	ng	# 1
67) 4-Bromophenyl-phenylether	10.704	248	6450	2.516	ng	# 1
71) Phenanthrene	11.428	178	80243	6.576	ng	99
75) Fluoranthene	12.622	202	195804	16.907	ng	99
78) Pyrene	12.851	202	204903	13.519	ng	99
81) Benzo(a)anthracene	14.039	228	97765	8.963	ng	95
83) Chrysene	14.075	228	119494	12.277	ng	98
87) Indeno(1,2,3-cd)pyrene	17.045	276	35528	3.000	ng	93
88) Benzo(b)fluoranthene	15.104	252	214271	23.816	ng	99
89) Benzo(k)fluoranthene	15.104	252	214271	25.456	ng	98
90) Benzo(a)pyrene	15.474	252	68279	7.856	ng	97
92) Benzo(g,h,i)perylene	17.498	276	32015	3.337	ng	99

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

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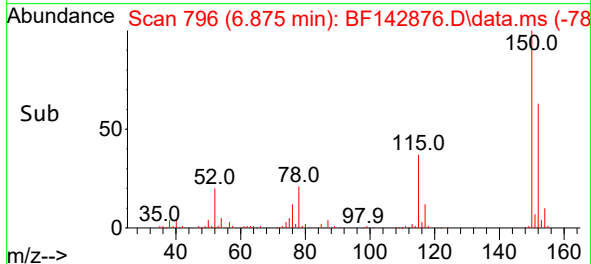
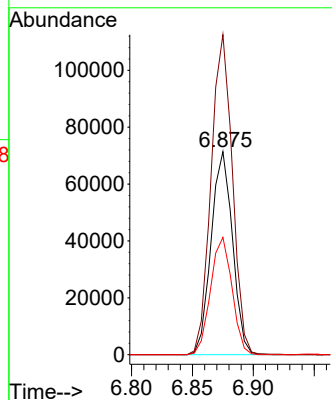
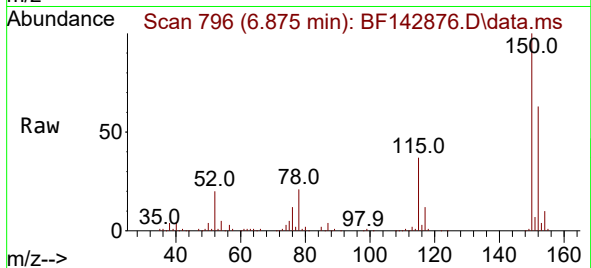




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

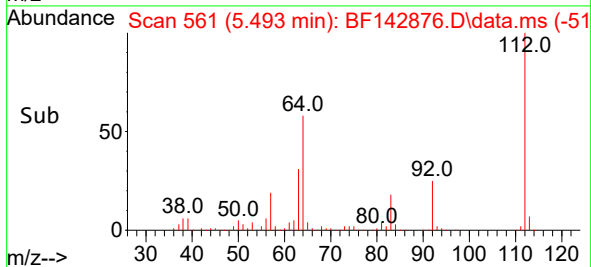
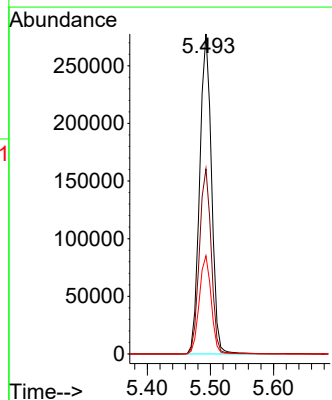
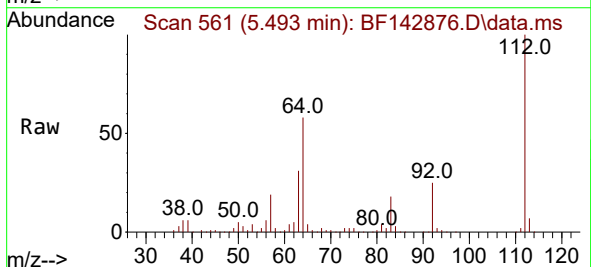
Instrument :
BNA_F
ClientSampleId :
ARS 20-0006

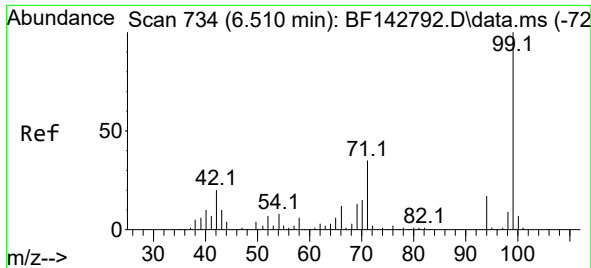
Tgt Ion:152 Resp: 87034
Ion Ratio Lower Upper
152 100
150 157.6 127.2 190.8
115 57.8 46.6 69.8



#5
2-Fluorophenol
Concen: 69.019 ng
RT: 5.493 min Scan# 561
Delta R.T. 0.001 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

Tgt Ion:112 Resp: 360799
Ion Ratio Lower Upper
112 100
64 57.9 48.2 72.2
63 30.7 25.7 38.5

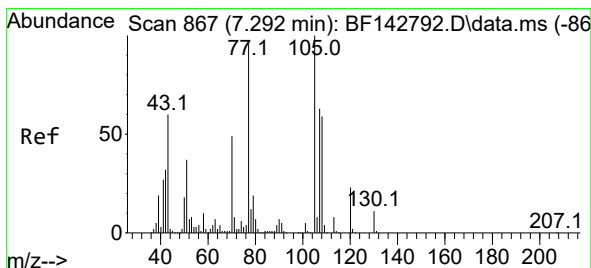
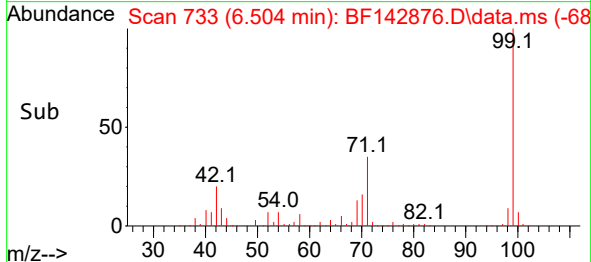
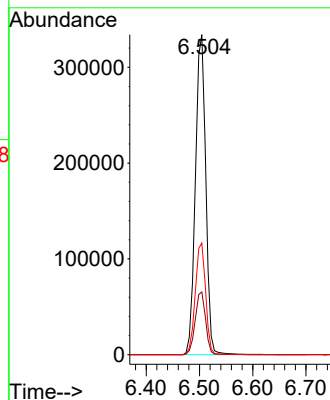
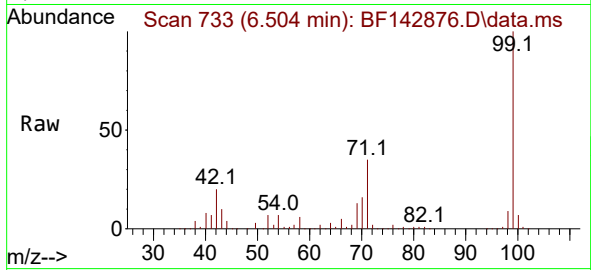




#7
Phenol-d6
Concen: 73.473 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

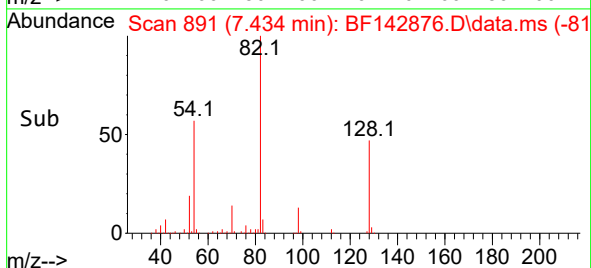
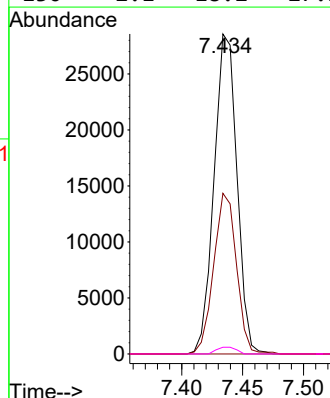
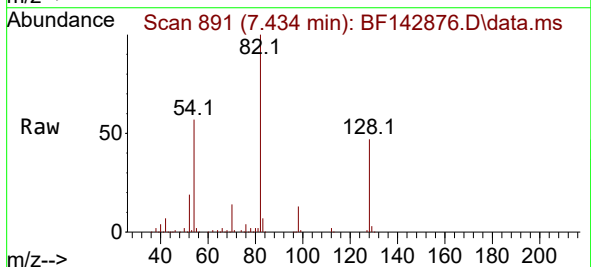
Instrument :
BNA_F
ClientSampleId :
ARS 20-0006

Tgt Ion: 99 Resp: 453142
Ion Ratio Lower Upper
99 100
42 19.6 15.9 23.9
71 34.9 27.8 41.8



#19
n-Nitroso-di-n-propylamine
Concen: 10.410 ng
RT: 7.434 min Scan# 891
Delta R.T. 0.141 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

Tgt Ion: 70 Resp: 37339
Ion Ratio Lower Upper
70 100
42 50.2 52.1 78.1#
101 0.0 8.2 12.2#
130 2.1 18.2 27.2#



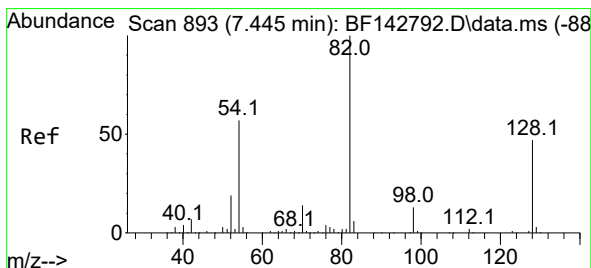
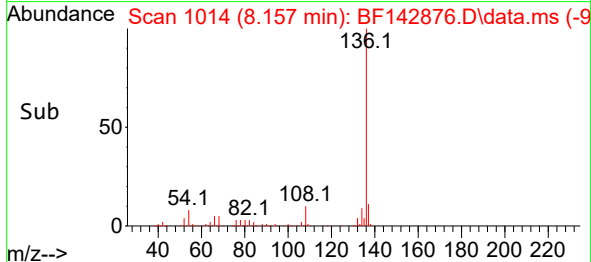
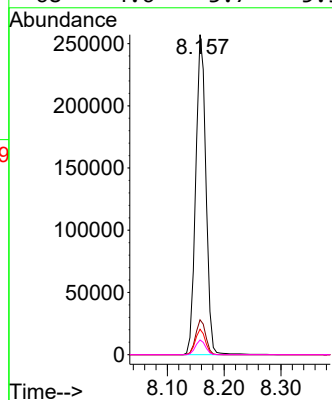
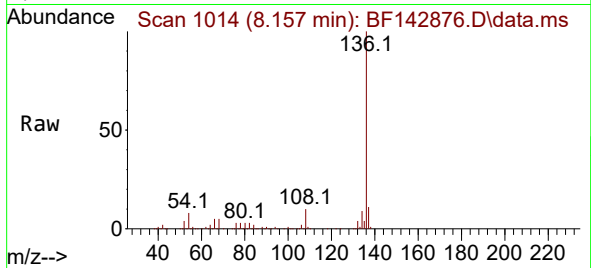


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

Instrument :
BNA_F
ClientSampleId :
ARS 20-0006

Tgt Ion:136 Resp: 322132

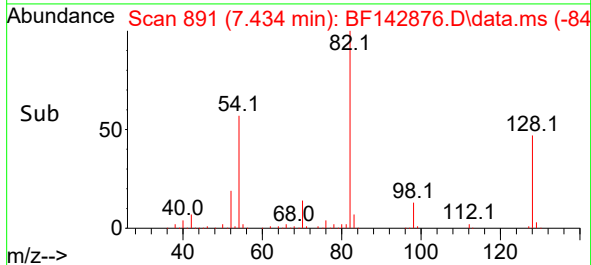
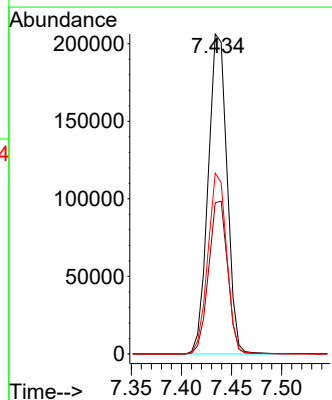
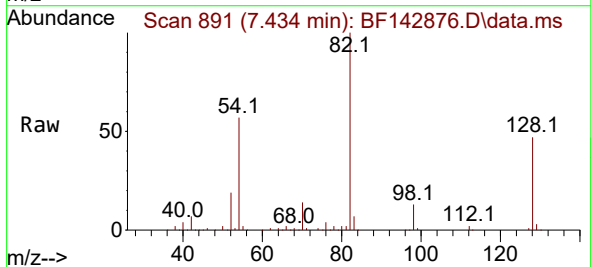
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.4	12.6
54	8.0	6.3	9.5
68	4.6	3.7	5.5

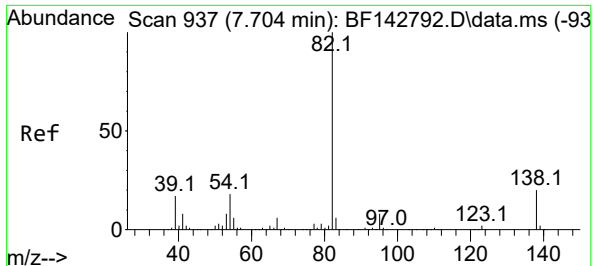


#23
Nitrobenzene-d5
Concen: 46.232 ng
RT: 7.434 min Scan# 891
Delta R.T. -0.011 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

Tgt Ion: 82 Resp: 271514

Ion	Ratio	Lower	Upper
82	100		
128	47.2	37.7	56.5
54	56.5	45.7	68.5

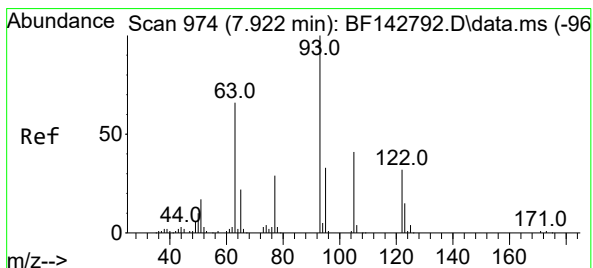
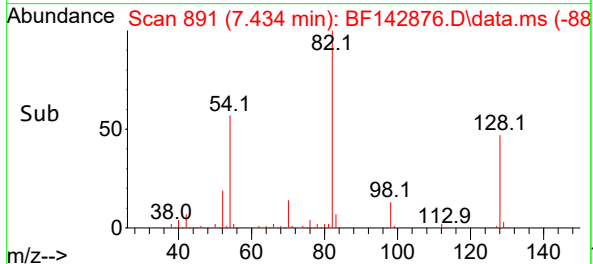
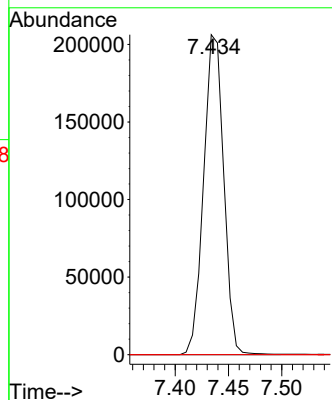
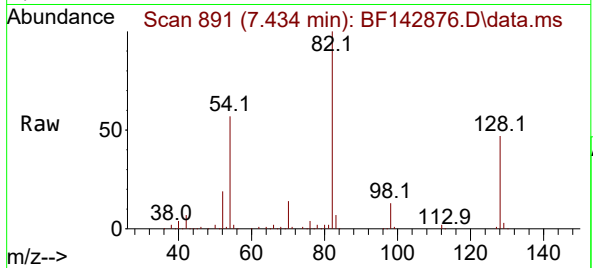




#25
Isophorone
Concen: 28.824 ng
RT: 7.434 min Scan# 891
Delta R.T. -0.270 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

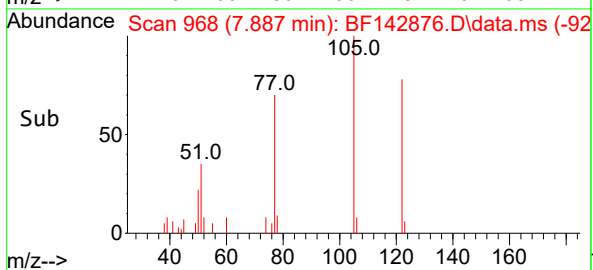
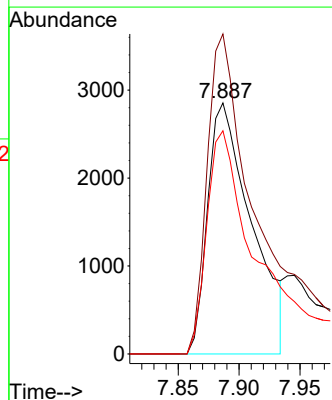
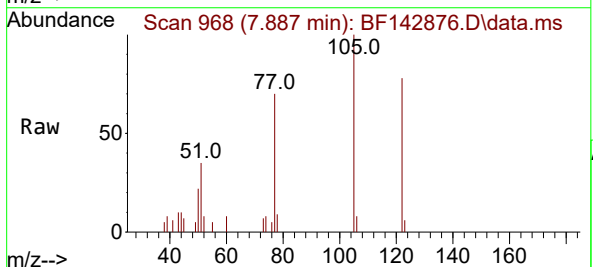
Instrument :
BNA_F
ClientSampleId :
ARS 20-0006

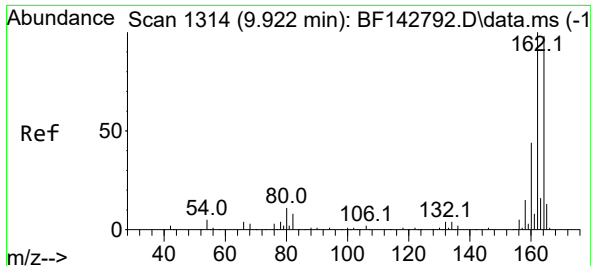
Tgt Ion: 82 Resp: 271556
Ion Ratio Lower Upper
82 100
95 0.0 6.2 9.2#
138 0.0 16.2 24.4#



#32
Benzoic acid
Concen: 2.788 ng
RT: 7.887 min Scan# 968
Delta R.T. -0.035 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

Tgt Ion: 122 Resp: 7127
Ion Ratio Lower Upper
122 100
105 127.5 104.7 144.7
77 88.9 70.2 110.2





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1313

Delta R.T. -0.006 min

Lab File: BF142876.D

Acq: 26 Jun 2025 19:04

Instrument :

BNA_F

ClientSampleId :

ARS 20-0006

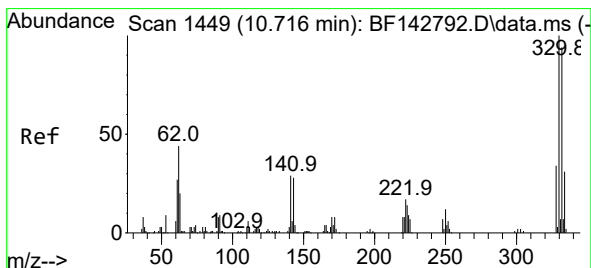
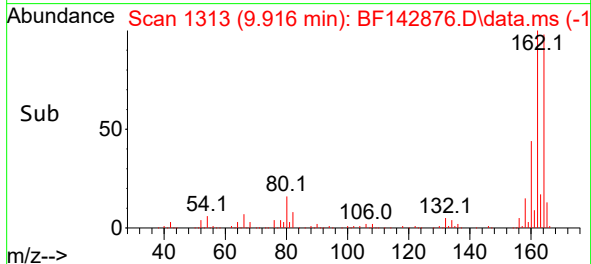
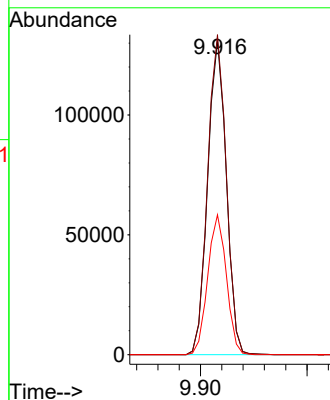
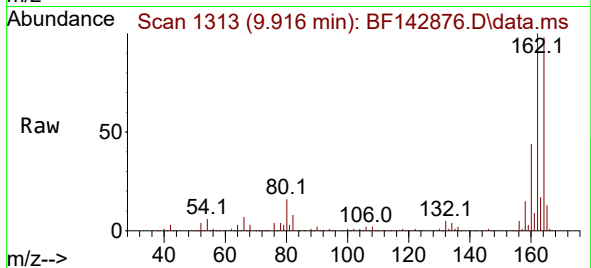
Tgt Ion:164 Resp: 159759

Ion Ratio Lower Upper

164 100

162 101.8 81.8 122.8

160 44.5 36.0 54.0



#42

2,4,6-Tribromophenol

Concen: 58.248 ng

RT: 10.704 min Scan# 1447

Delta R.T. -0.012 min

Lab File: BF142876.D

Acq: 26 Jun 2025 19:04

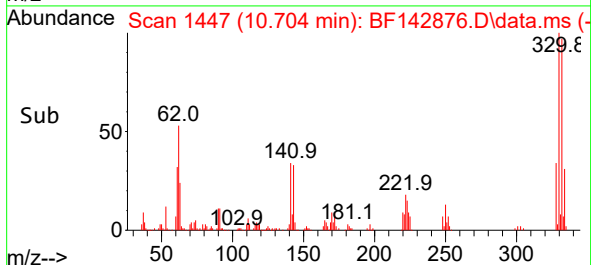
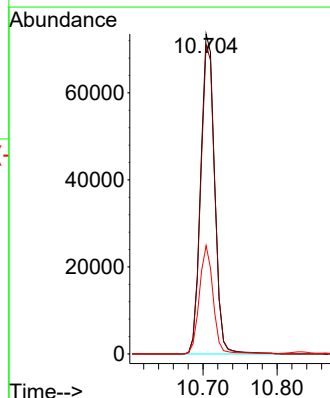
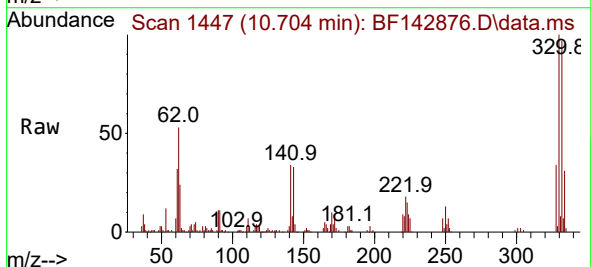
Tgt Ion:330 Resp: 95762

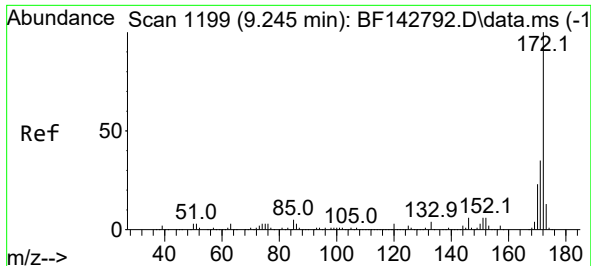
Ion Ratio Lower Upper

330 100

332 97.5 75.0 112.6

141 33.6 25.3 37.9





#45

2-Fluorobiphenyl

Concen: 49.885 ng

RT: 9.234 min Scan# 1197

Delta R.T. -0.011 min

Lab File: BF142876.D

Acq: 26 Jun 2025 19:04

Instrument :

BNA_F

ClientSampleId :

ARS 20-0006

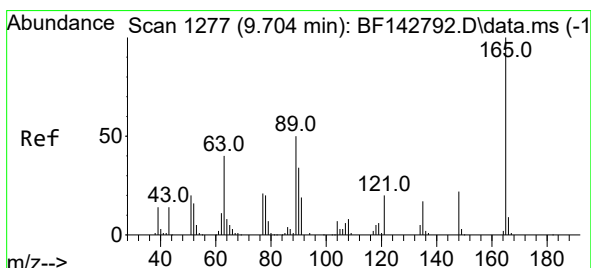
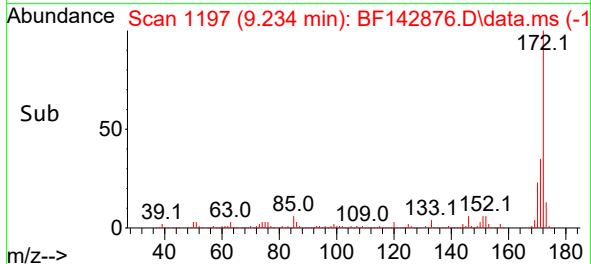
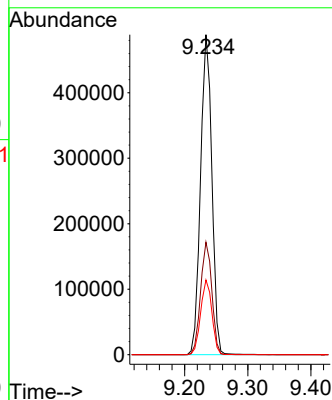
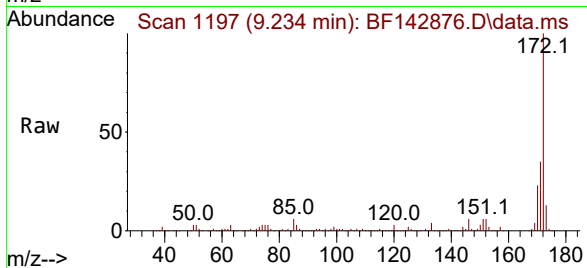
Tgt Ion:172 Resp: 606664

Ion Ratio Lower Upper

172 100

171 35.1 28.2 42.4

170 23.4 18.5 27.7



#51

2,6-Dinitrotoluene

Concen: 9.072 ng

RT: 9.916 min Scan# 1313

Delta R.T. 0.212 min

Lab File: BF142876.D

Acq: 26 Jun 2025 19:04

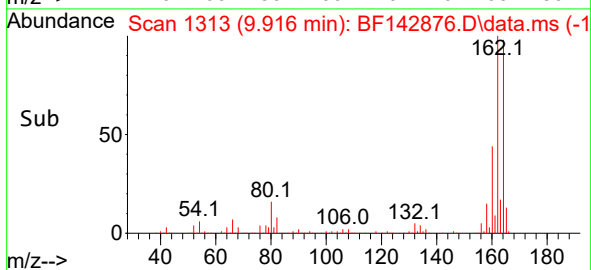
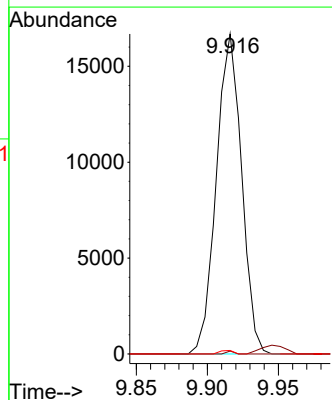
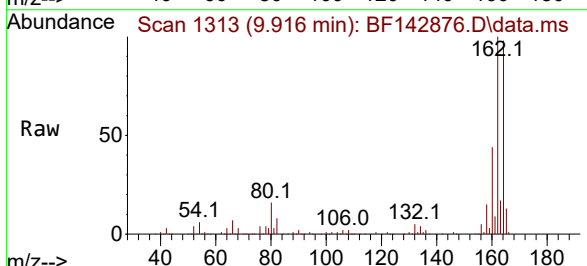
Tgt Ion:165 Resp: 20603

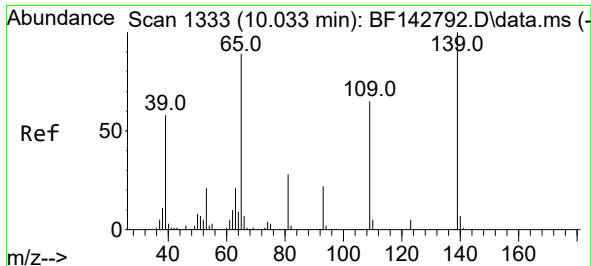
Ion Ratio Lower Upper

165 100

63 0.9 44.2 66.4#

89 1.1 39.8 59.8#

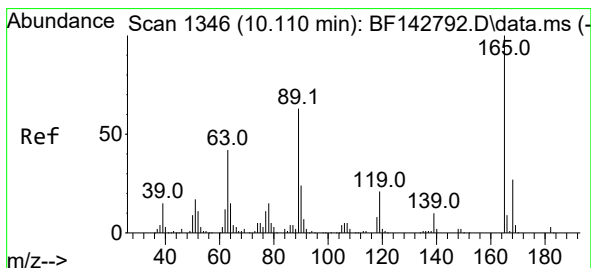
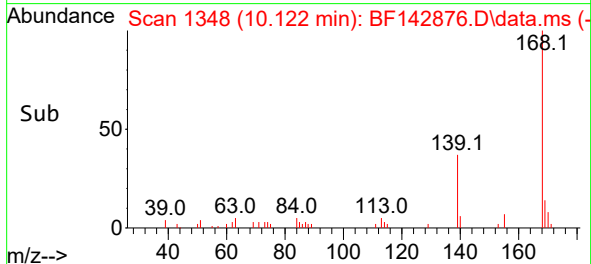
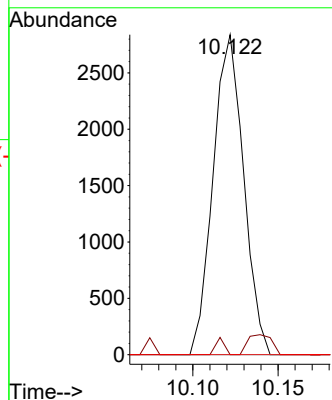
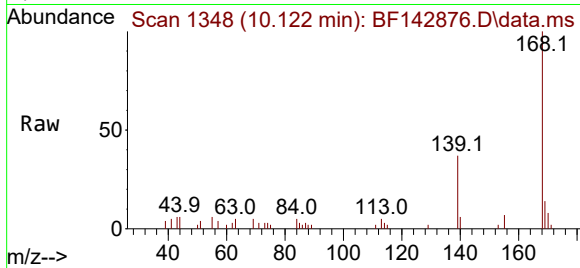




#56
4-Nitrophenol
Concen: 2.065 ng
RT: 10.122 min Scan# 11
Delta R.T. 0.088 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

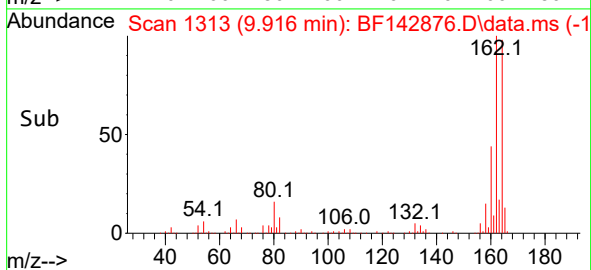
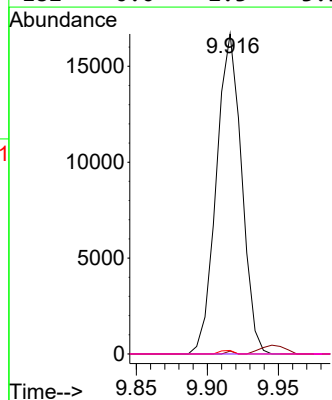
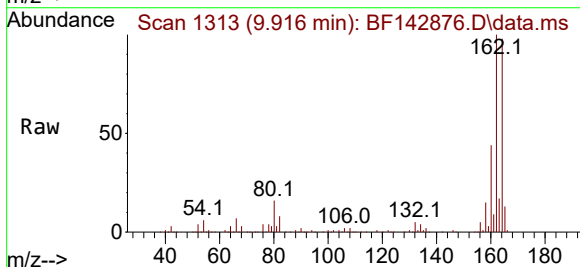
Instrument :
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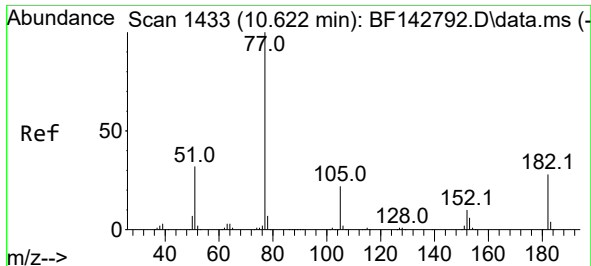
Tgt Ion:139 Resp: 3535
Ion Ratio Lower Upper
139 100
109 0.0 44.7 84.7#
65 0.0 69.8 109.8#



#57
2,4-Dinitrotoluene
Concen: 6.830 ng
RT: 9.916 min Scan# 1313
Delta R.T. -0.194 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

Tgt Ion:165 Resp: 20603
Ion Ratio Lower Upper
165 100
63 0.9 33.9 50.9#
89 1.1 50.6 75.8#
182 0.0 2.3 3.5#

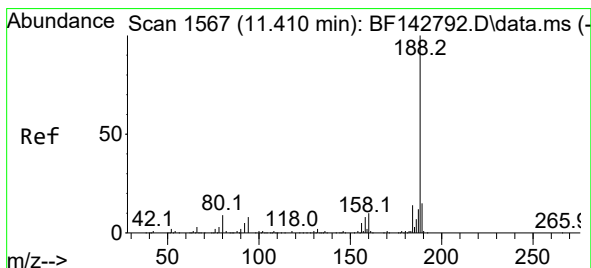
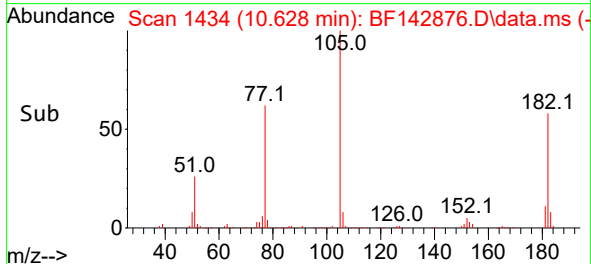
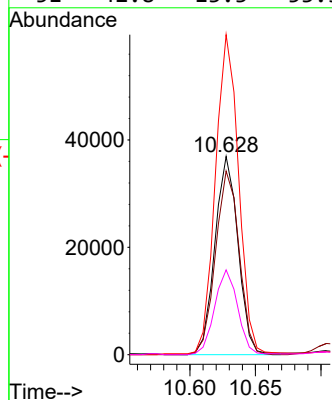
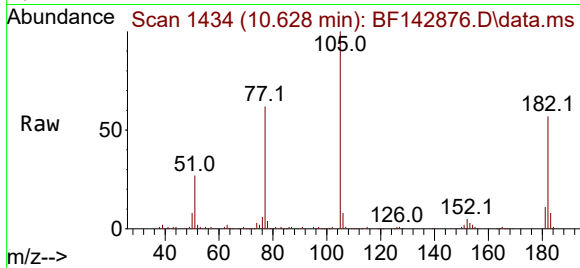




#63
Azobenzene
Concen: 5.003 ng
RT: 10.628 min Scan# 1433
Delta R.T. 0.006 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

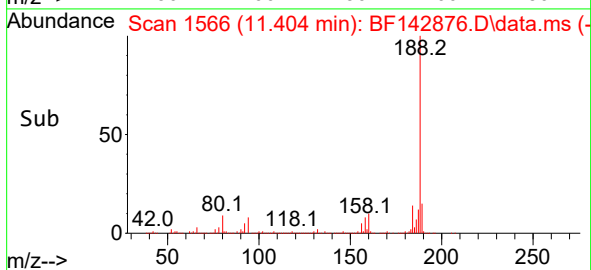
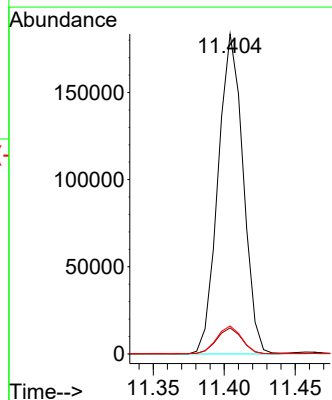
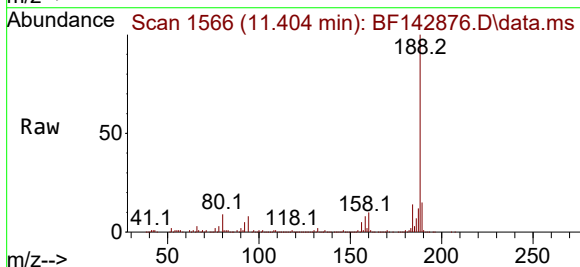
Instrument :
BNA_F
ClientSampleId :
ARS 20-0006

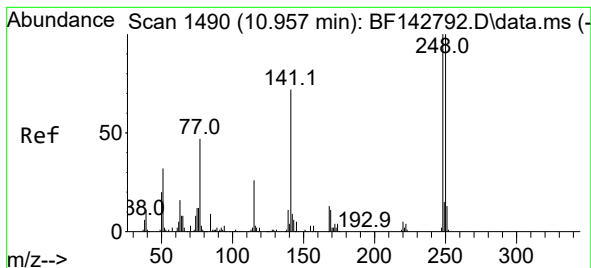
Tgt Ion: 77 Resp: 45338
Ion Ratio Lower Upper
77 100
182 92.7 7.7 47.7#
105 161.5 1.9 41.9#
51 42.8 13.3 53.3



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1566
Delta R.T. -0.006 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

Tgt Ion: 188 Resp: 225267
Ion Ratio Lower Upper
188 100
94 8.1 6.7 10.1
80 8.7 6.9 10.3

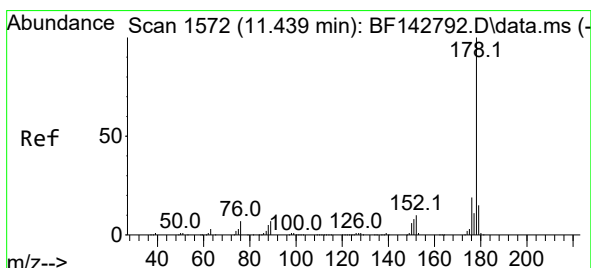
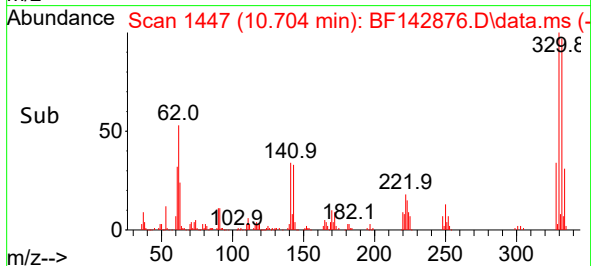
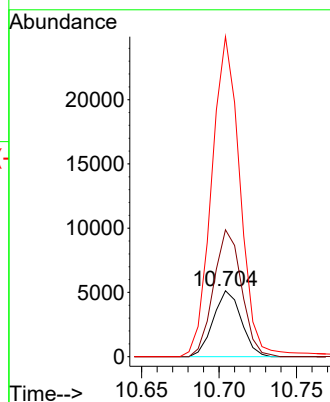
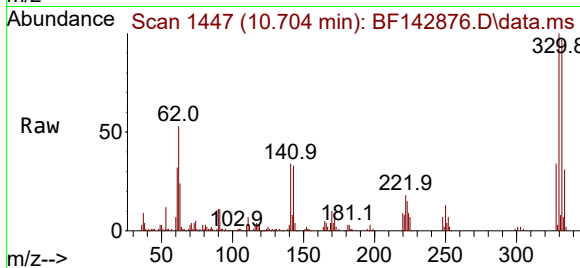




#67
4-Bromophenyl-phenylether
Concen: 2.516 ng
RT: 10.704 min Scan# 1490
Delta R.T. -0.253 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

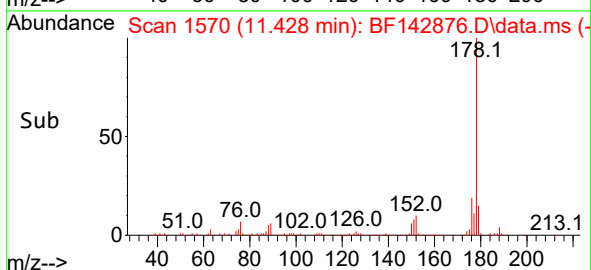
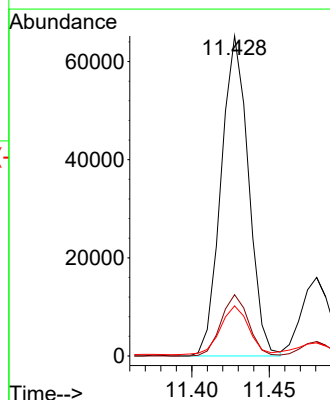
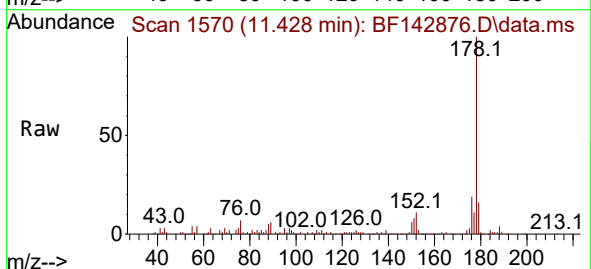
Instrument :
BNA_F
ClientSampleId :
ARS 20-0006

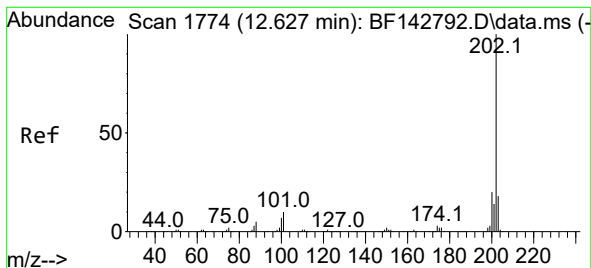
Tgt Ion:248 Resp: 6450
Ion Ratio Lower Upper
248 100
250 192.5 79.8 119.8#
141 485.6 57.8 86.6#



#71
Phenanthrene
Concen: 6.576 ng
RT: 11.428 min Scan# 1570
Delta R.T. -0.012 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

Tgt Ion:178 Resp: 80243
Ion Ratio Lower Upper
178 100
176 19.2 15.1 22.7
179 15.7 12.0 18.0





#75

Fluoranthene

Concen: 16.907 ng

RT: 12.622 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142876.D

Acq: 26 Jun 2025 19:04

Instrument :

BNA_F

ClientSampleId :

ARS 20-0006

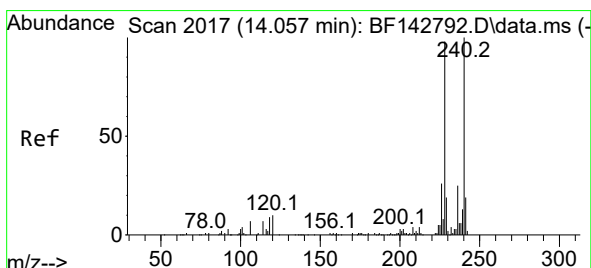
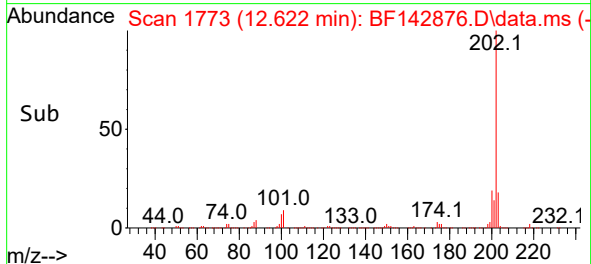
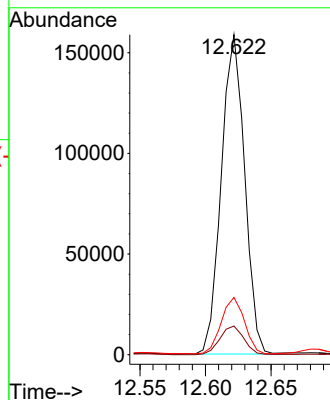
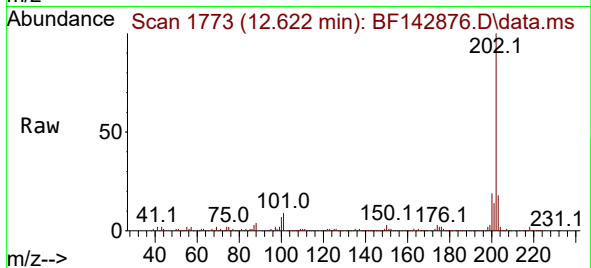
Tgt Ion:202 Resp: 195804

Ion Ratio Lower Upper

202 100

101 9.0 0.0 29.7

203 17.9 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF142876.D

Acq: 26 Jun 2025 19:04

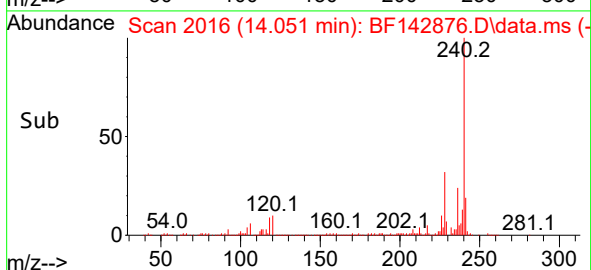
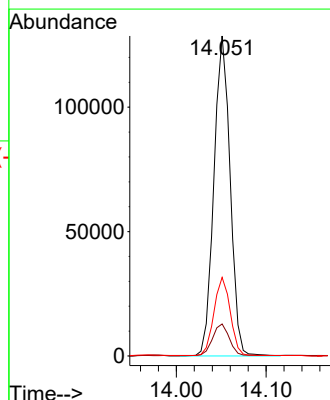
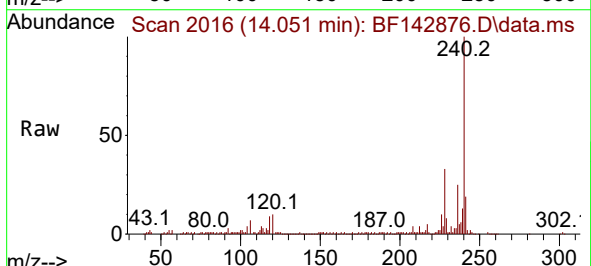
Tgt Ion:240 Resp: 161696

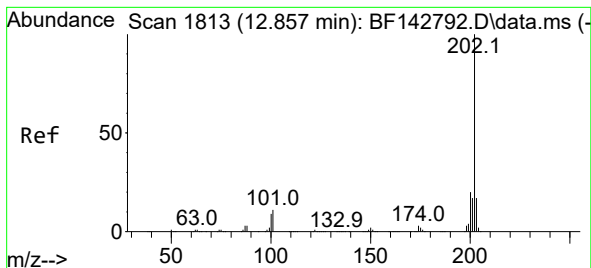
Ion Ratio Lower Upper

240 100

120 10.0 8.2 12.2

236 24.5 19.8 29.8





#78

Pyrene

Concen: 13.519 ng

RT: 12.851 min Scan# 1812

Delta R.T. -0.006 min

Lab File: BF142876.D

Acq: 26 Jun 2025 19:04

Instrument :

BNA_F

ClientSampleId :

ARS 20-0006

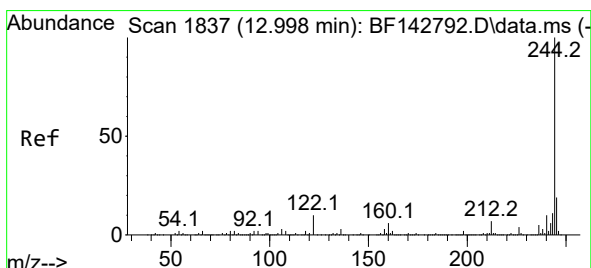
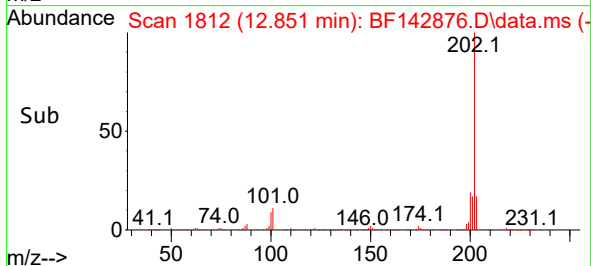
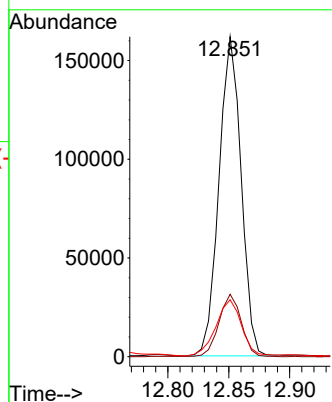
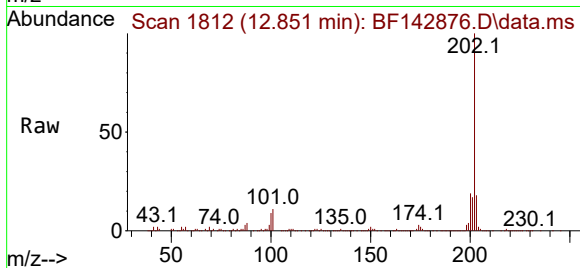
Tgt Ion:202 Resp: 204903

Ion Ratio Lower Upper

202 100

200 19.5 15.7 23.5

203 17.8 13.8 20.6



#79

Terphenyl-d14

Concen: 36.991 ng

RT: 12.992 min Scan# 1836

Delta R.T. -0.006 min

Lab File: BF142876.D

Acq: 26 Jun 2025 19:04

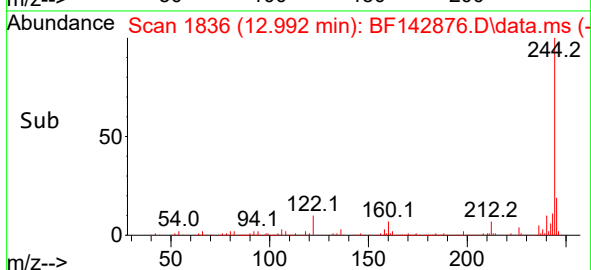
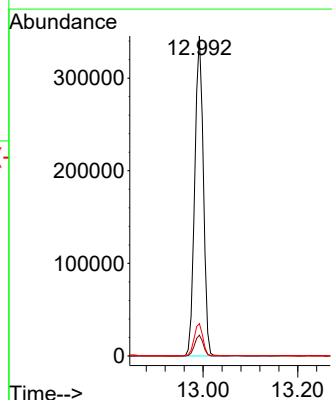
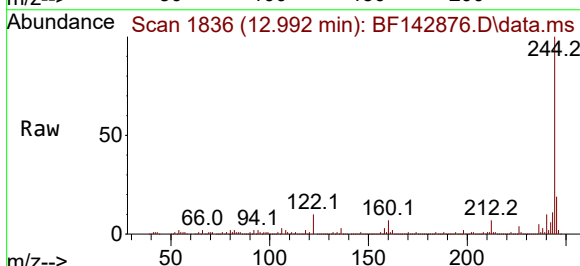
Tgt Ion:244 Resp: 432893

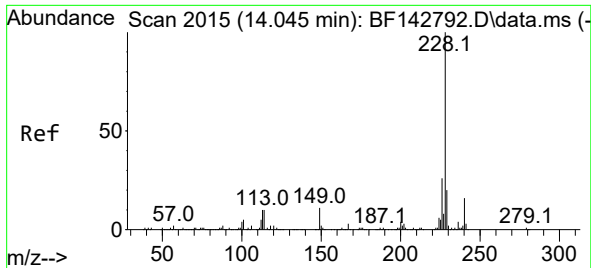
Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.0

122 10.1 8.2 12.2

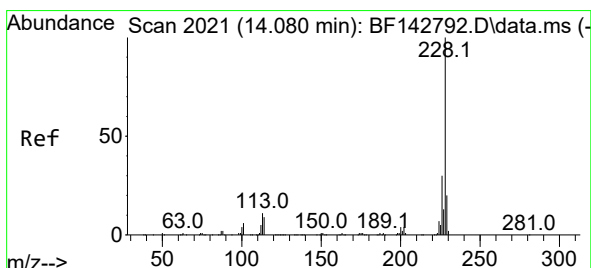
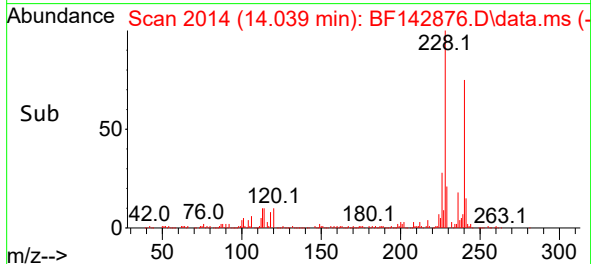
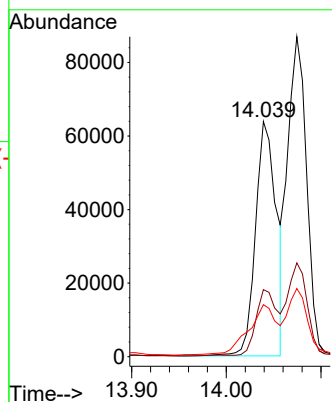
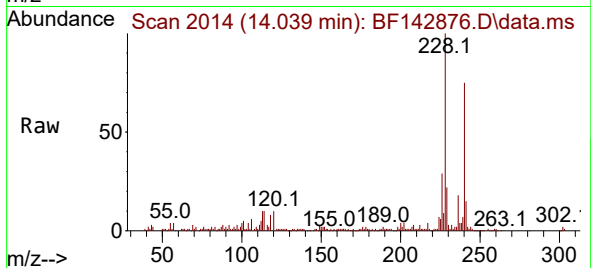




#81
Benzo(a)anthracene
Concen: 8.963 ng
RT: 14.039 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

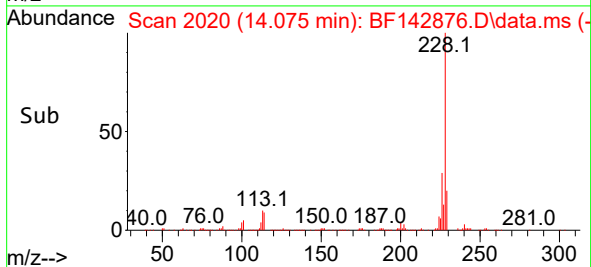
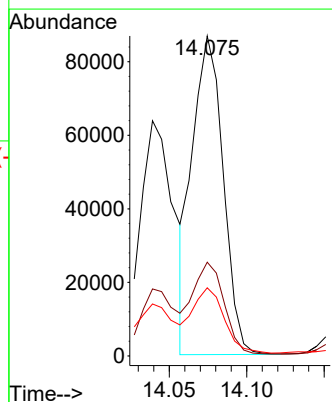
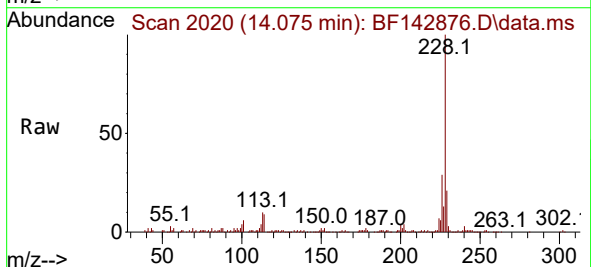
Instrument :
BNA_F
ClientSampleId :
ARS 20-0006

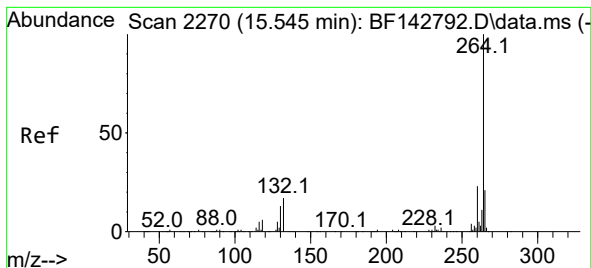
Tgt Ion:228 Resp: 97765
Ion Ratio Lower Upper
228 100
226 28.5 21.2 31.8
229 22.1 15.6 23.4



#83
Chrysene
Concen: 12.277 ng
RT: 14.075 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

Tgt Ion:228 Resp: 119494
Ion Ratio Lower Upper
228 100
226 29.3 23.7 35.5
229 21.3 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF142876.D

Acq: 26 Jun 2025 19:04

Instrument :

BNA_F

ClientSampleId :

ARS 20-0006

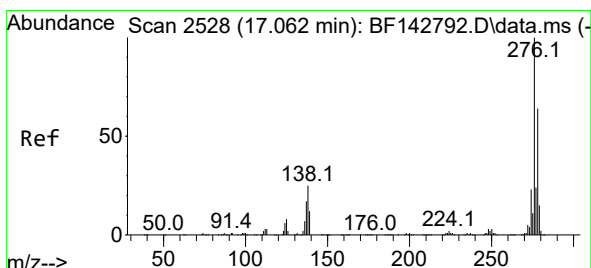
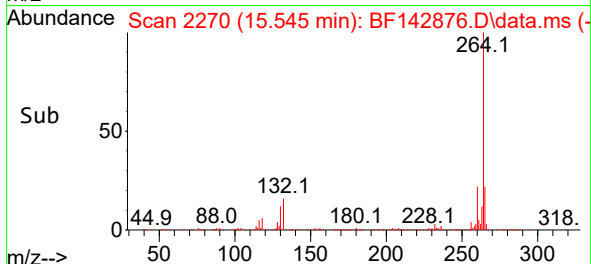
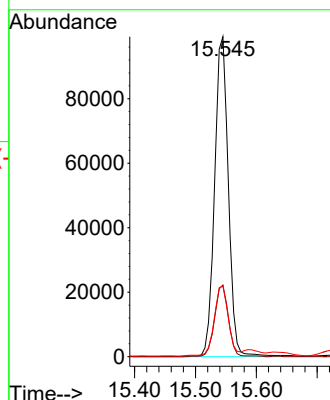
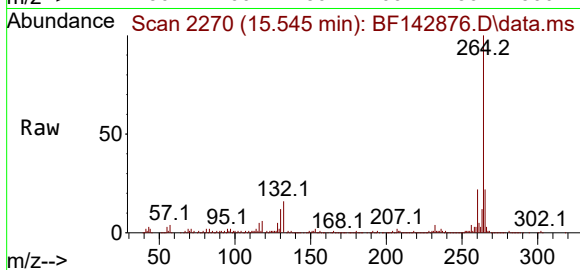
Tgt Ion:264 Resp: 155481

Ion Ratio Lower Upper

264 100

260 22.4 18.1 27.1

265 22.1 16.6 25.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.000 ng

RT: 17.045 min Scan# 2525

Delta R.T. -0.017 min

Lab File: BF142876.D

Acq: 26 Jun 2025 19:04

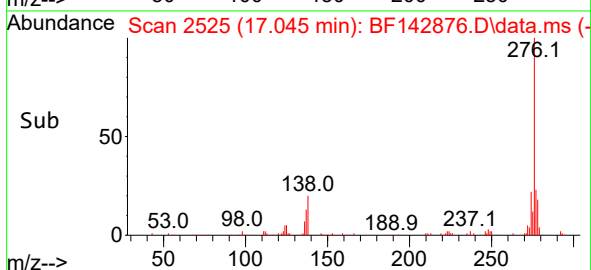
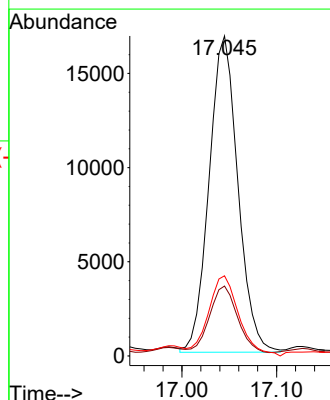
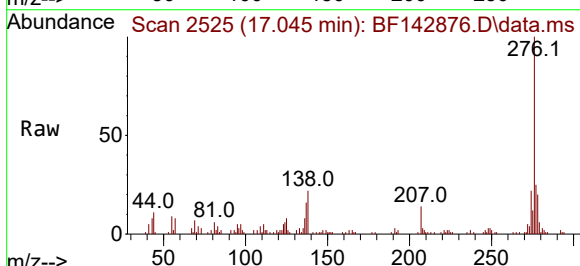
Tgt Ion:276 Resp: 35528

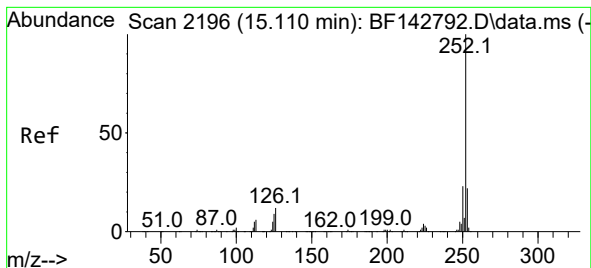
Ion Ratio Lower Upper

276 100

138 20.3 20.2 30.4

277 27.0 19.8 29.6





#88

Benzo(b)fluoranthene

Concen: 23.816 ng

RT: 15.104 min Scan# 2195

Delta R.T. -0.006 min

Lab File: BF142876.D

Acq: 26 Jun 2025 19:04

Instrument :

BNA_F

ClientSampleId :

ARS 20-0006

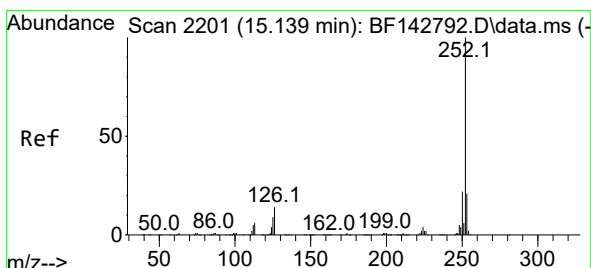
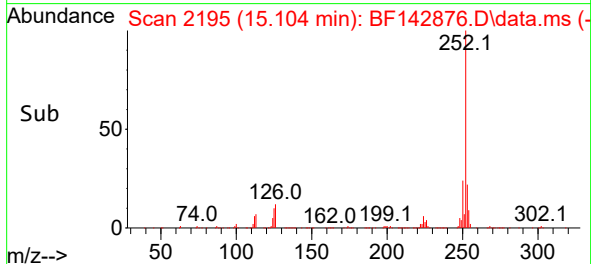
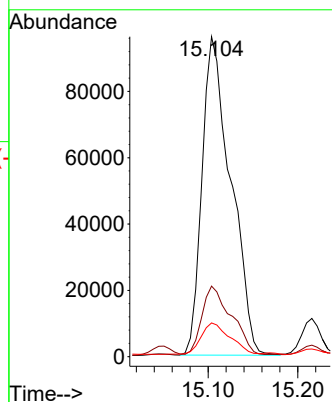
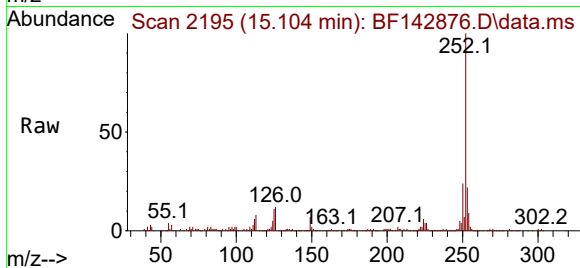
Tgt Ion:252 Resp: 214271

Ion Ratio Lower Upper

252 100

253 22.0 17.5 26.3

125 10.5 7.4 11.0



#89

Benzo(k)fluoranthene

Concen: 25.456 ng

RT: 15.104 min Scan# 2195

Delta R.T. -0.035 min

Lab File: BF142876.D

Acq: 26 Jun 2025 19:04

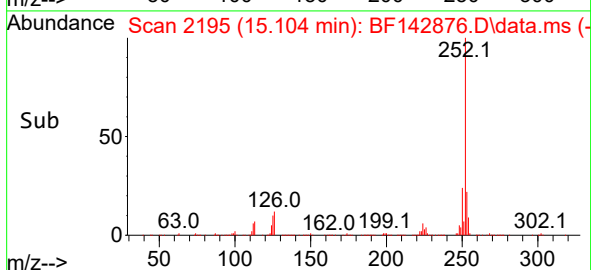
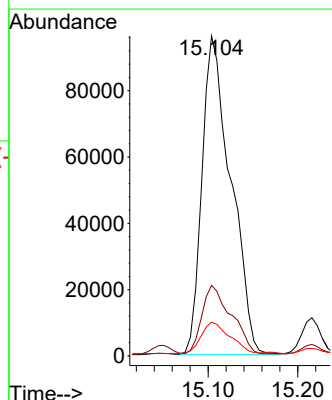
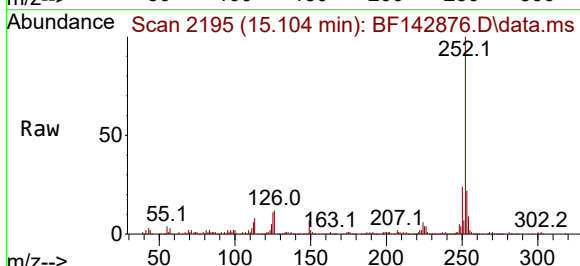
Tgt Ion:252 Resp: 214271

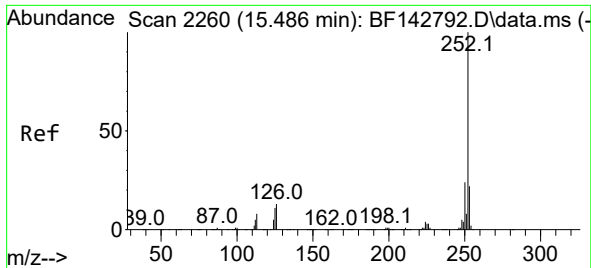
Ion Ratio Lower Upper

252 100

253 22.0 17.2 25.8

125 10.5 7.4 11.2

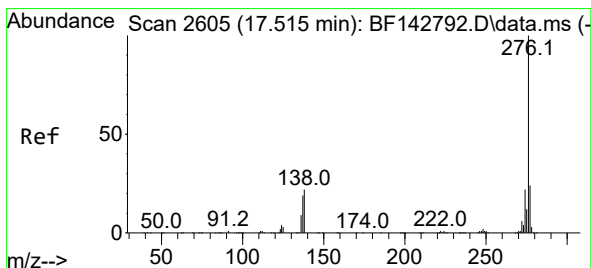
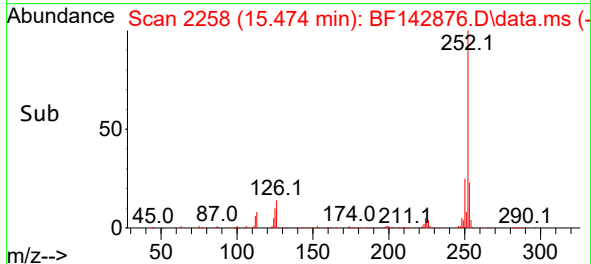
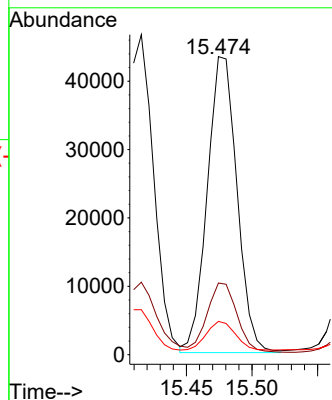
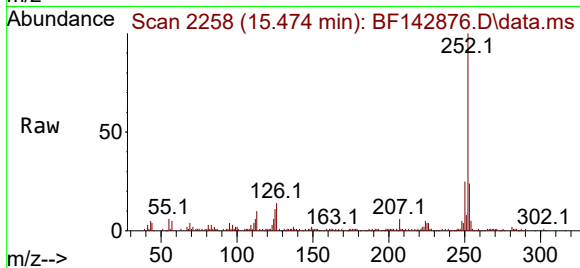




#90
Benzo(a)pyrene
Concen: 7.856 ng
RT: 15.474 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

Instrument :
BNA_F
ClientSampleId :
ARS 20-0006

Tgt Ion:252 Resp: 68279
Ion Ratio Lower Upper
252 100
253 24.1 17.5 26.3
125 11.2 8.6 12.8



#92
Benzo(g,h,i)perylene
Concen: 3.337 ng
RT: 17.498 min Scan# 2602
Delta R.T. -0.017 min
Lab File: BF142876.D
Acq: 26 Jun 2025 19:04

Tgt Ion:276 Resp: 32015
Ion Ratio Lower Upper
276 100
277 24.1 18.8 28.2
138 22.1 17.6 26.4

