

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101325\
 Data File : BF143940.D
 Acq On : 13 Oct 2025 18:58
 Operator : RC/JU
 Sample : Q3323-05
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SED-05-0-2

Quant Time: Oct 14 01:30:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 06 15:29:47 2025
 Response via : Initial Calibration

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

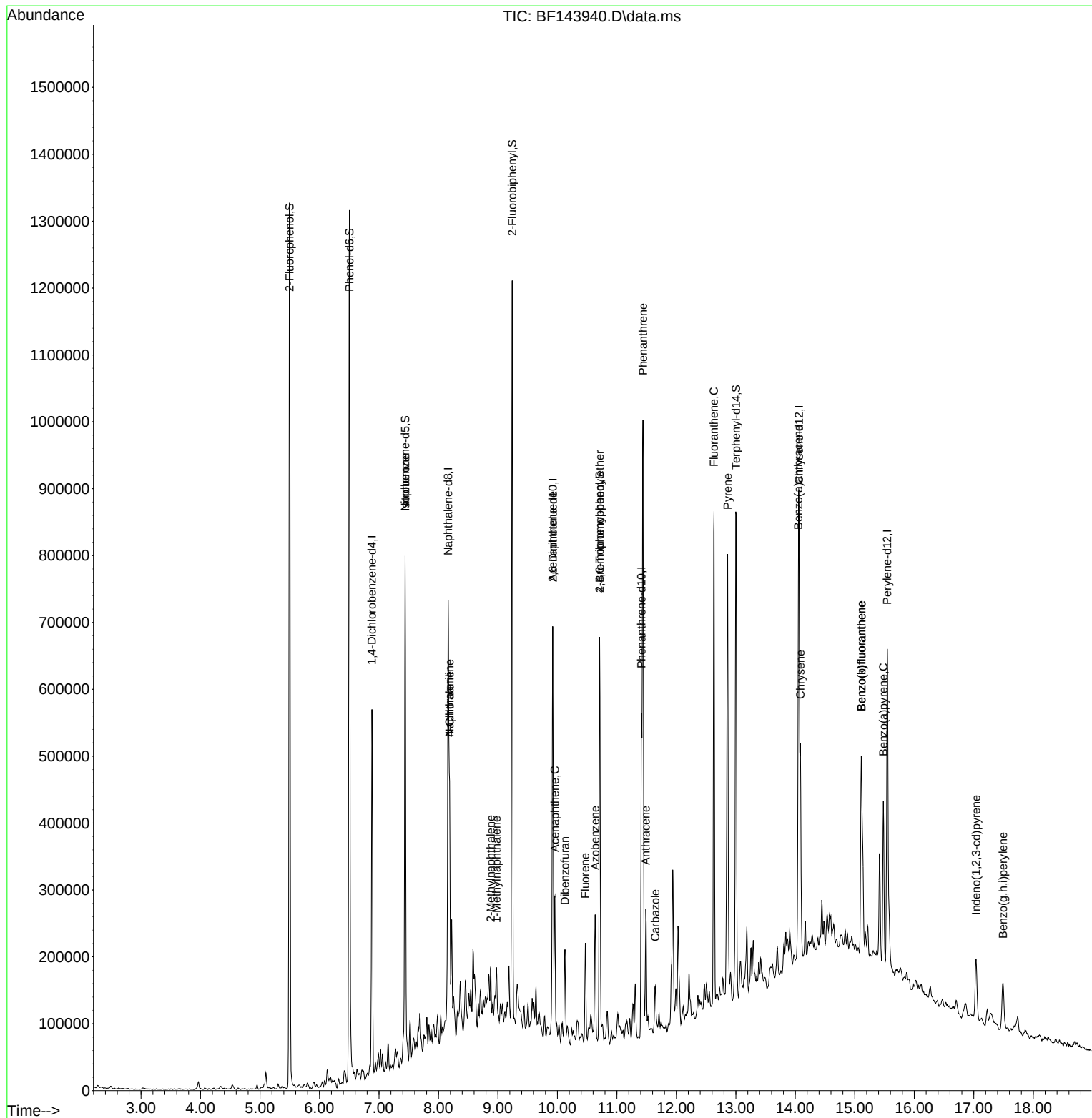
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	107651	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	379182	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	180774	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	249842	20.000	ng	0.00
76) Chrysene-d12	14.063	240	234306	20.000	ng	0.00
86) Perylene-d12	15.545	264	306494	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	506632	74.735	ng	0.00
7) Phenol-d6	6.504	99	586402	72.571	ng	-0.01
23) Nitrobenzene-d5	7.439	82	311747	49.950	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	101548	56.398	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	522699	45.880	ng	-0.01
79) Terphenyl-d14	13.004	244	379521	27.683	ng	0.00
Target Compounds						Qvalue
25) Isophorone	7.439	82	265341	20.163	ng	# 68
31) Naphthalene	8.186	128	196848	11.412	ng	99
33) 4-Chloroaniline	8.186	127	25716	3.975	ng	# 26
37) 2-Methylnaphthalene	8.881	142	35334	3.075	ng	93
38) 1-Methylnaphthalene	8.975	142	29223	2.622	ng	100
51) 2,6-Dinitrotoluene	9.922	165	24243	11.388	ng	# 27
52) Acenaphthene	9.957	154	64979	7.068	ng	99
55) Dibenzofuran	10.127	168	69044	5.321	ng	96
58) Fluorene	10.469	166	52154	5.326	ng	97
63) Azobenzene	10.633	77	39641	3.556	ng	# 1
67) 4-Bromophenyl-phenylether	10.710	248	6650	2.408	ng	# 1
71) Phenanthrene	11.439	178	505316	41.719	ng	99
72) Anthracene	11.486	178	116964	9.559	ng	98
73) Carbazole	11.645	167	38996	3.598	ng	99
75) Fluoranthene	12.633	202	437193	34.944	ng	99
78) Pyrene	12.863	202	409759	20.977	ng	99
81) Benzo(a)anthracene	14.051	228	201601	13.148	ng	97
83) Chrysene	14.086	228	170576	12.020	ng	98
87) Indeno(1,2,3-cd)pyrene	17.039	276	70144	3.735	ng	97
88) Benzo(b)fluoranthene	15.110	252	270679	15.374	ng	# 97
89) Benzo(k)fluoranthene	15.110	252	270679	16.615	ng	# 97
90) Benzo(a)pyrene	15.480	252	160121	10.489	ng	# 96
92) Benzo(g,h,i)perylene	17.492	276	68104	4.509	ng	# 95

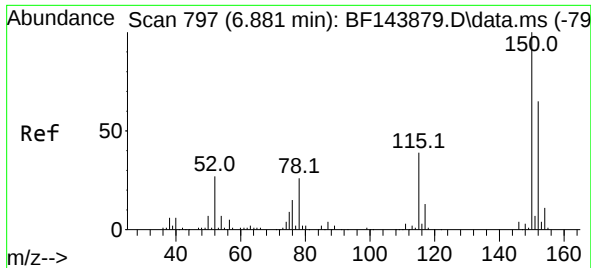
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101325\
Data File : BF143940.D
Acq On : 13 Oct 2025 18:58
Operator : RC/JU
Sample : Q3323-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

Quant Time: Oct 14 01:30:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 06 15:29:47 2025
Response via : Initial Calibration

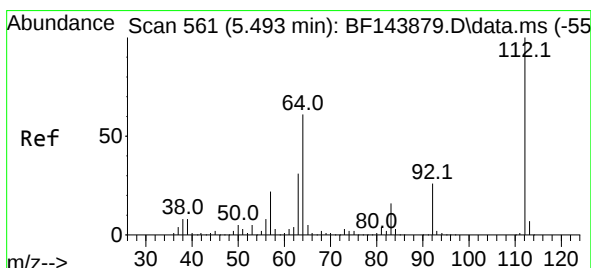
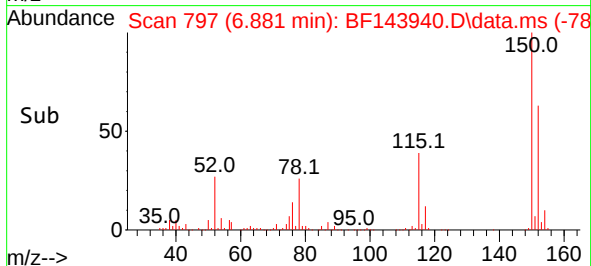
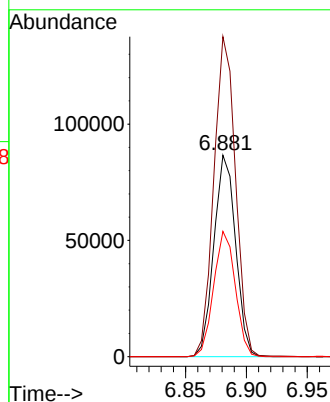
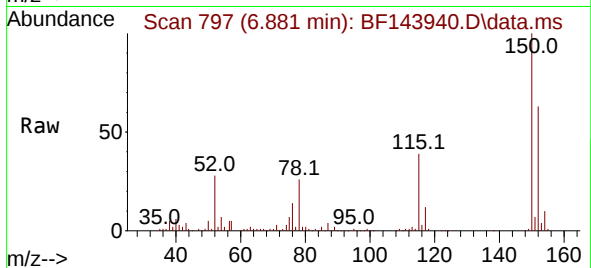




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 79
Delta R.T. -0.005 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

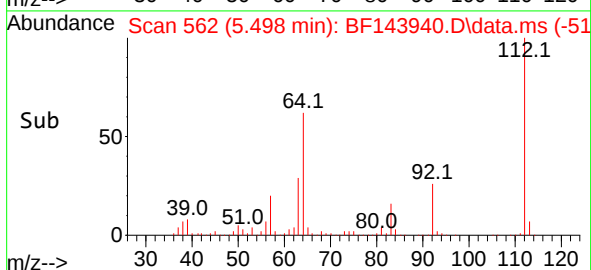
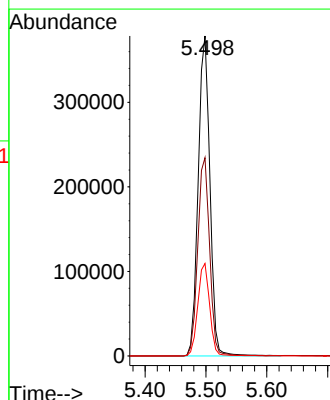
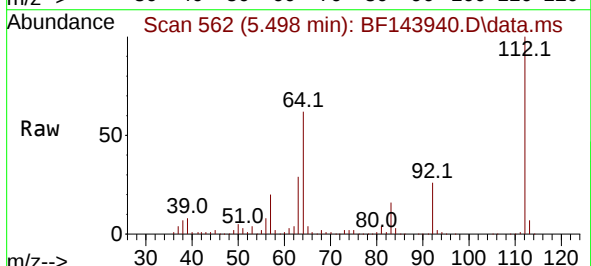
Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

Tgt Ion:152 Resp: 107651
Ion Ratio Lower Upper
152 100
150 158.8 124.4 186.6
115 62.2 48.1 72.1



#5
2-Fluorophenol
Concen: 74.735 ng
RT: 5.498 min Scan# 562
Delta R.T. 0.000 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

Tgt Ion:112 Resp: 506632
Ion Ratio Lower Upper
112 100
64 62.0 49.1 73.7
63 28.9 24.5 36.7





#7
Phenol-d6
Concen: 72.571 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

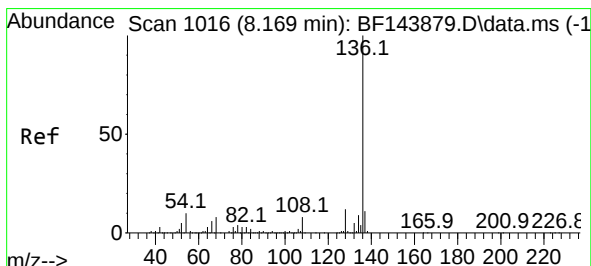
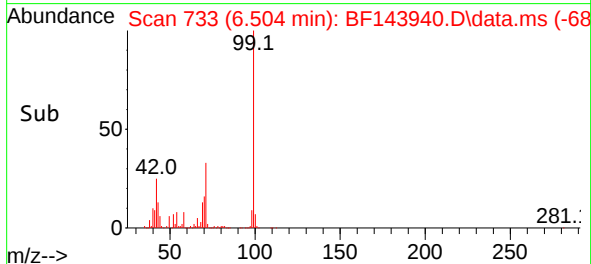
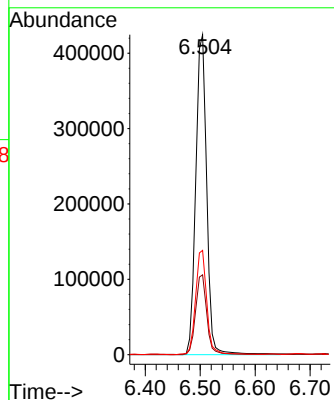
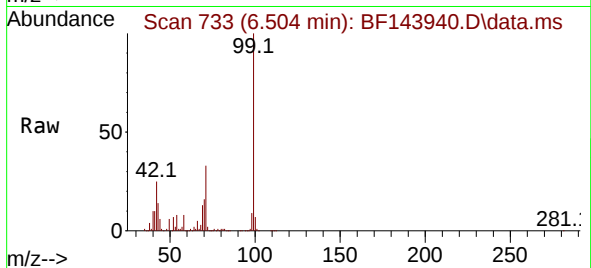
Instrument :

BNA_F

ClientSampleId :

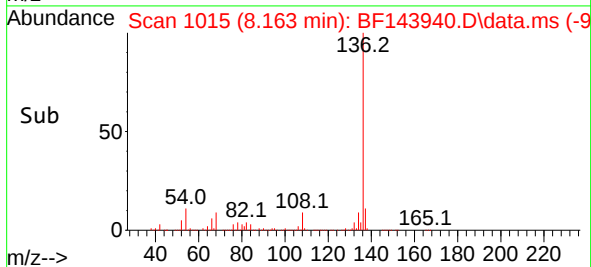
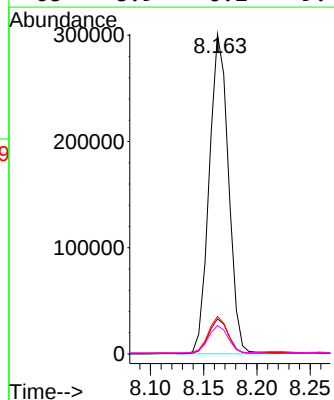
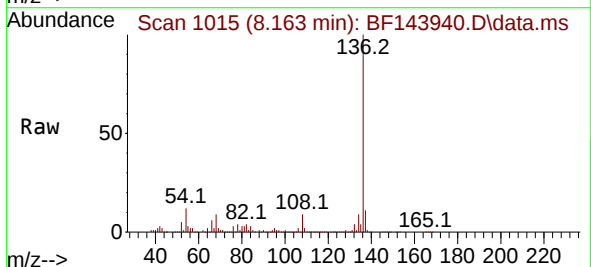
SED-05-0-2

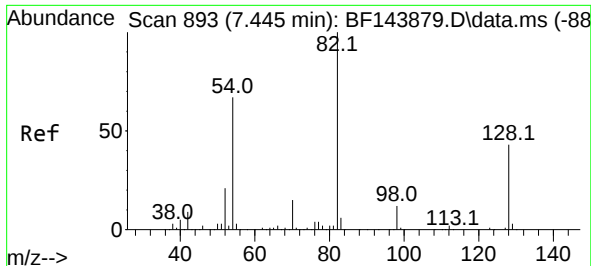
Tgt Ion: 99 Resp: 586402
Ion Ratio Lower Upper
99 100
42 24.9 21.0 31.4
71 32.6 27.8 41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

Tgt Ion:136 Resp: 379182
Ion Ratio Lower Upper
136 100
137 11.0 8.5 12.7
54 11.7 8.2 12.4
68 8.9 6.2 9.4

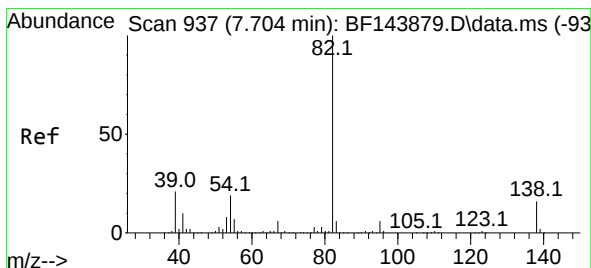
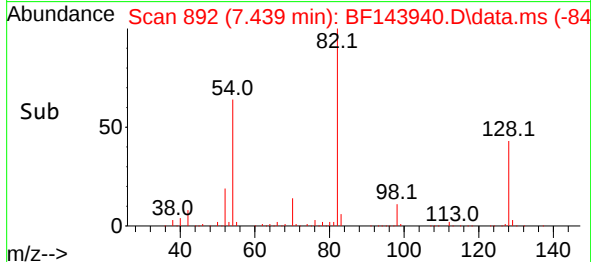
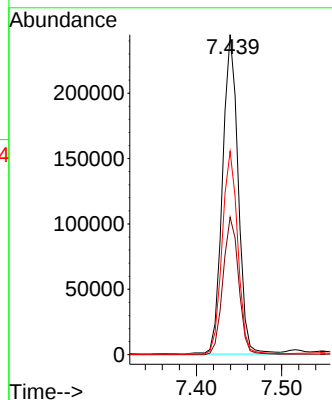
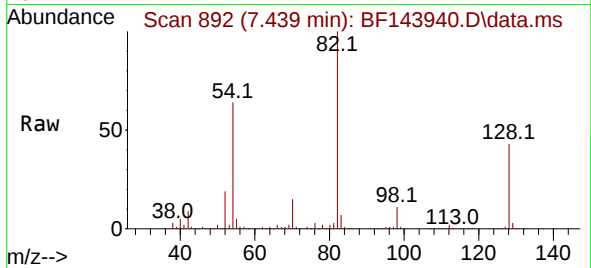




#23
Nitrobenzene-d5
Concen: 49.950 ng
RT: 7.439 min Scan# 892
Delta R.T. -0.018 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

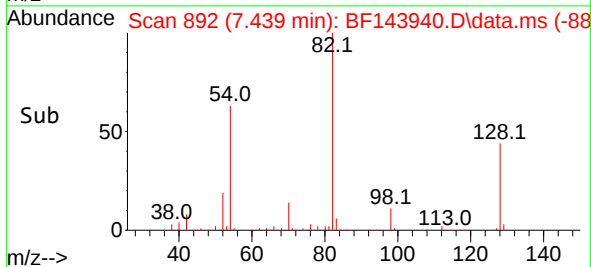
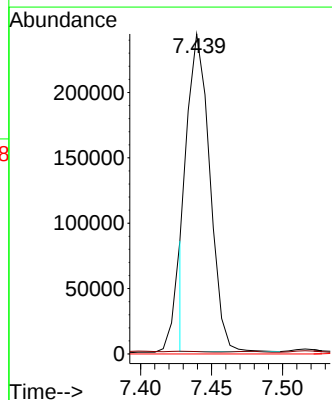
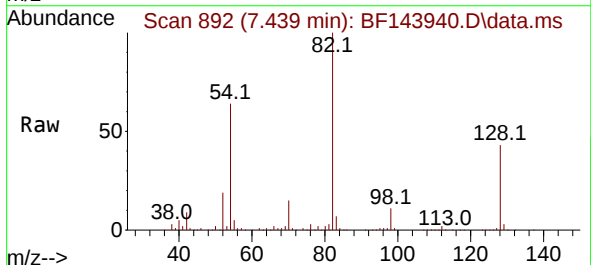
Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

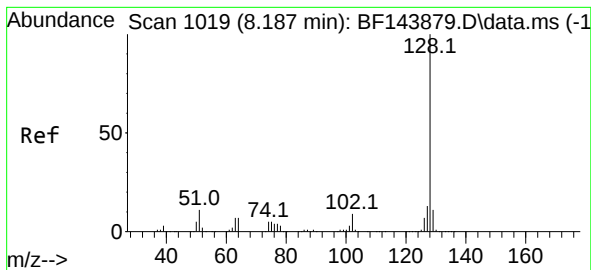
Tgt Ion: 82 Resp: 311747
Ion Ratio Lower Upper
82 100
128 42.9 34.0 51.0
54 63.5 53.2 79.8



#25
Isophorone
Concen: 20.163 ng
RT: 7.439 min Scan# 892
Delta R.T. -0.282 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

Tgt Ion: 82 Resp: 265341
Ion Ratio Lower Upper
82 100
95 0.7 5.1 7.7#
138 0.0 12.9 19.3#





#31

Naphthalene

Concen: 11.412 ng

RT: 8.186 min Scan# 1019

Delta R.T. -0.006 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

Instrument :

BNA_F

ClientSampleId :

SED-05-0-2

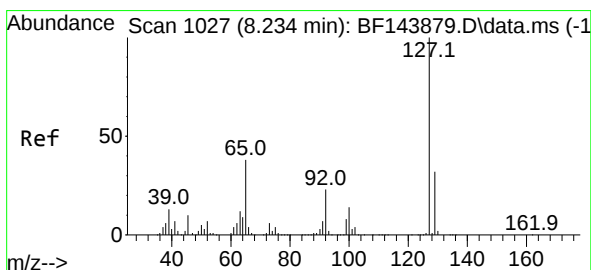
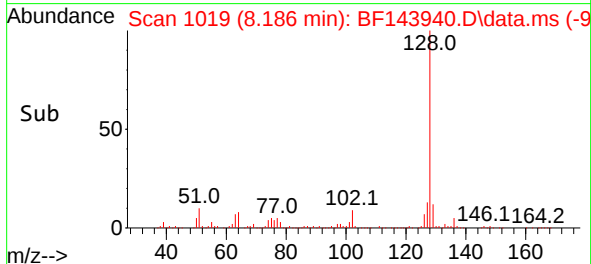
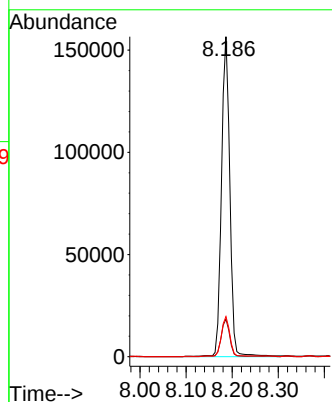
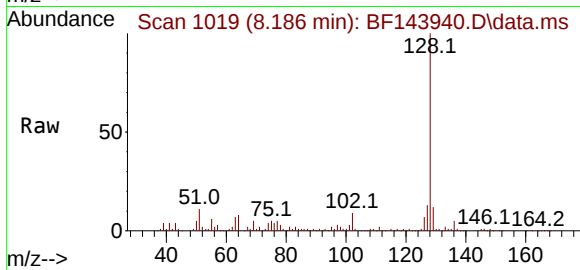
Tgt Ion:128 Resp: 196848

Ion Ratio Lower Upper

128 100

129 11.7 8.7 13.1

127 12.5 10.0 15.0



#33

4-Chloroaniline

Concen: 3.975 ng

RT: 8.186 min Scan# 1019

Delta R.T. -0.053 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

Tgt Ion:127 Resp: 25716

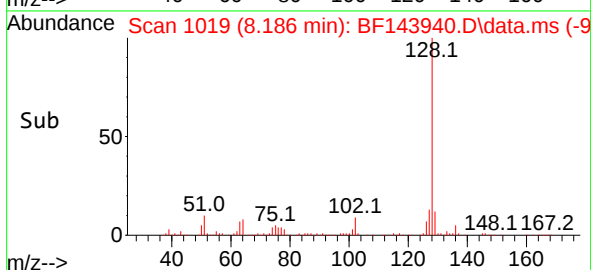
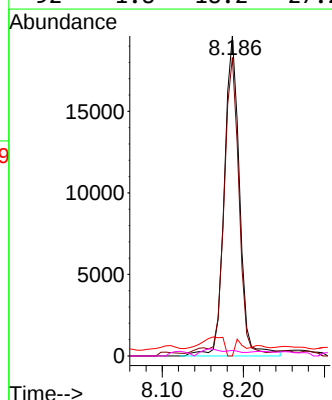
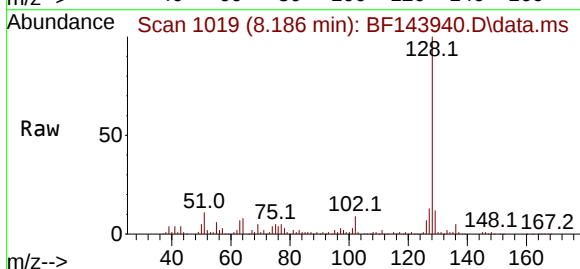
Ion Ratio Lower Upper

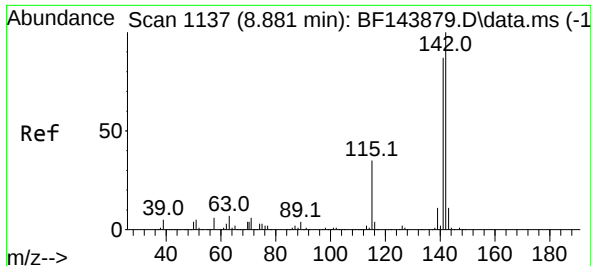
127 100

129 93.3 25.8 38.8#

65 0.0 30.0 45.0#

92 1.8 18.2 27.2#

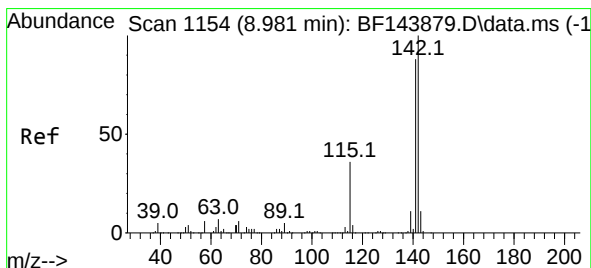
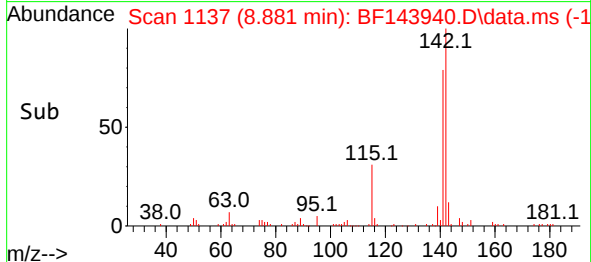
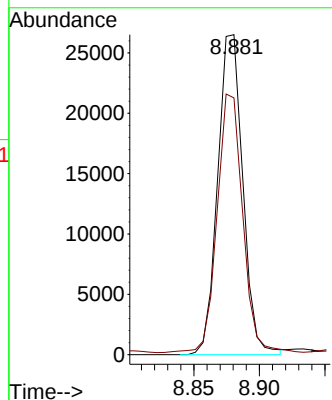
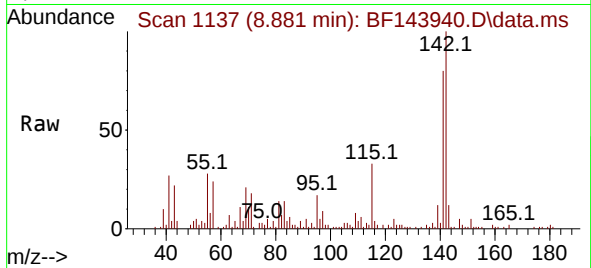




#37
2-Methylnaphthalene
Concen: 3.075 ng
RT: 8.881 min Scan# 1137
Delta R.T. -0.006 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

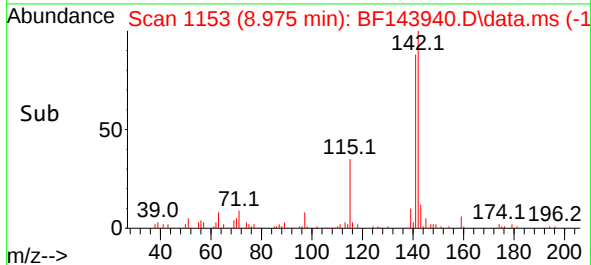
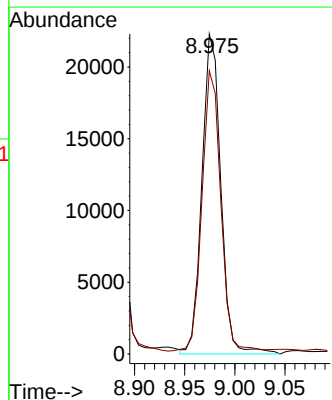
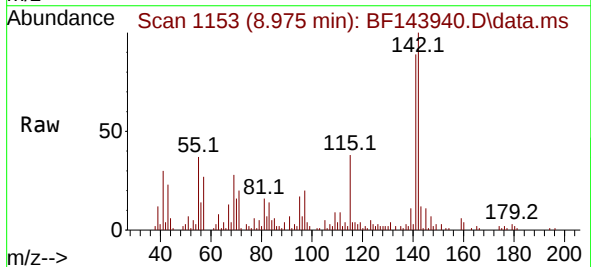
Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

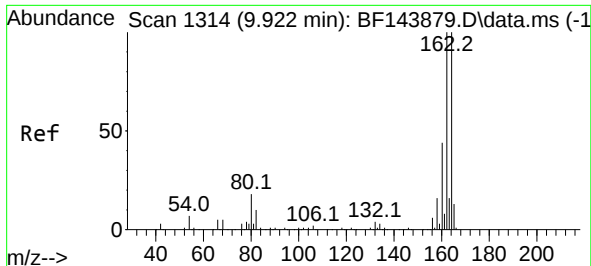
Tgt Ion:142 Resp: 35334
Ion Ratio Lower Upper
142 100
141 80.3 69.2 103.8



#38
1-Methylnaphthalene
Concen: 2.622 ng
RT: 8.975 min Scan# 1153
Delta R.T. -0.011 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

Tgt Ion:142 Resp: 29223
Ion Ratio Lower Upper
142 100
141 88.5 70.8 106.2

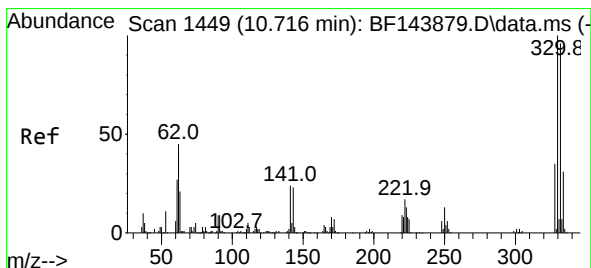
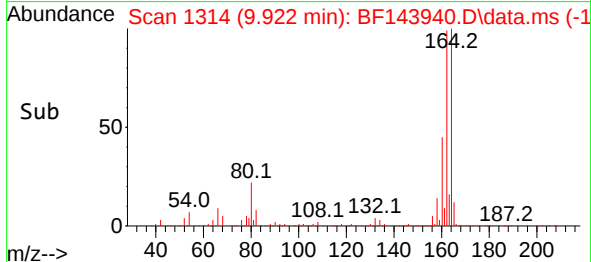
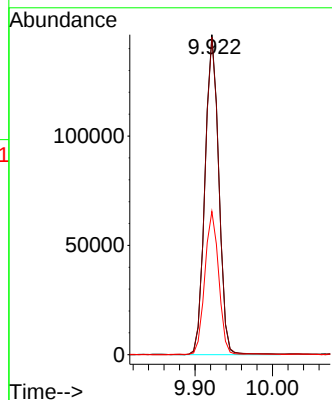
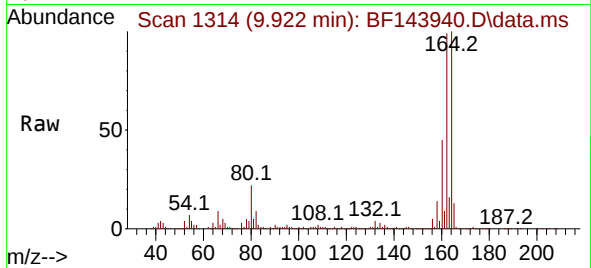




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

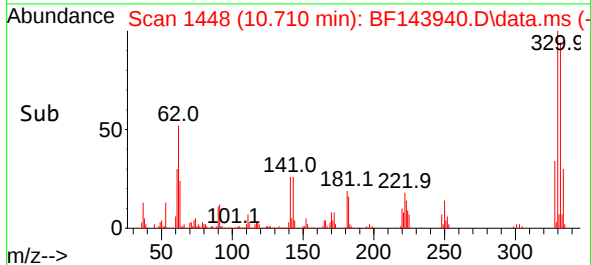
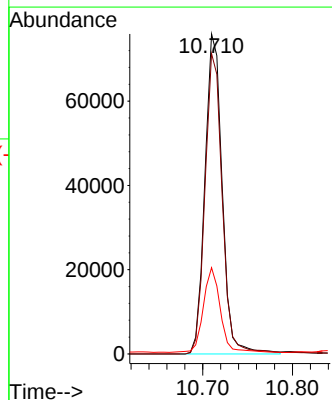
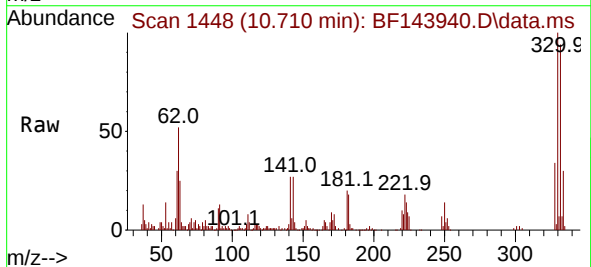
Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

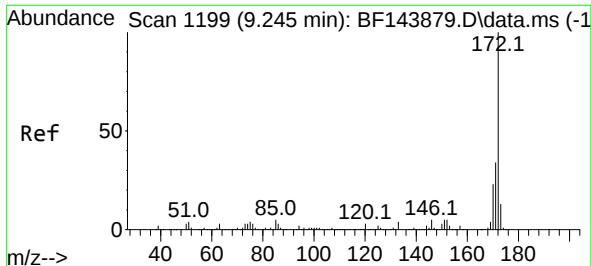
Tgt Ion:164 Resp: 180774
Ion Ratio Lower Upper
164 100
162 99.2 80.2 120.2
160 44.7 35.4 53.0



#42
2,4,6-Tribromophenol
Concen: 56.398 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.012 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

Tgt Ion:330 Resp: 101548
Ion Ratio Lower Upper
330 100
332 94.7 76.9 115.3
141 25.9 20.2 30.4

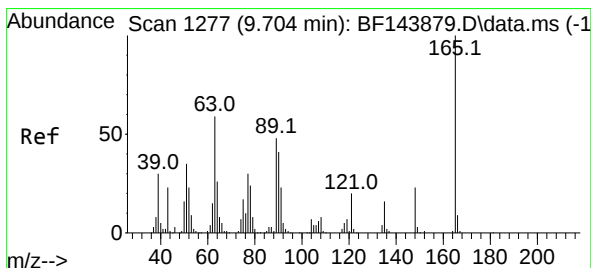
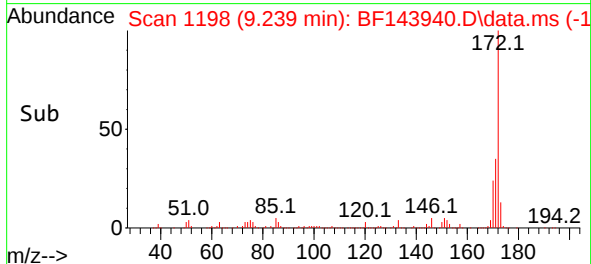
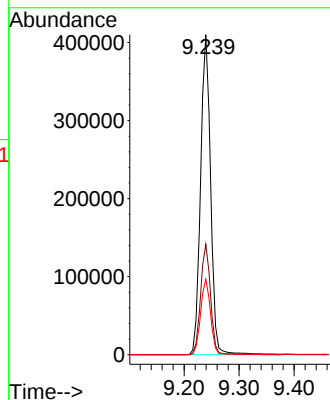
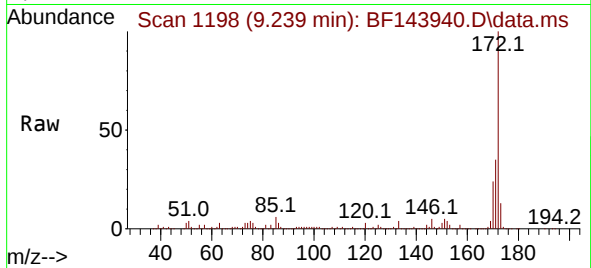




#45
2-Fluorobiphenyl
Concen: 45.880 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

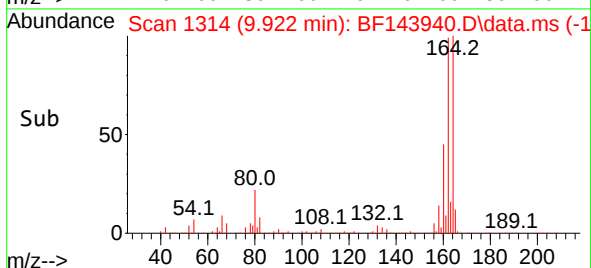
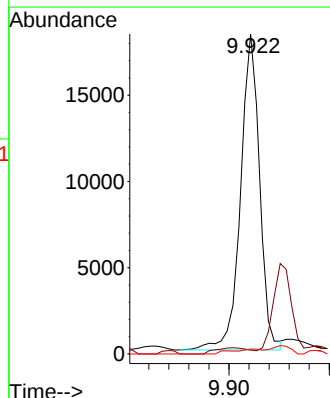
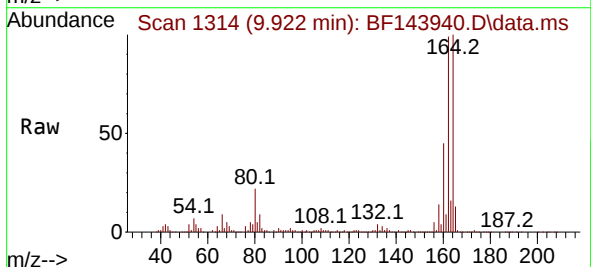
Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

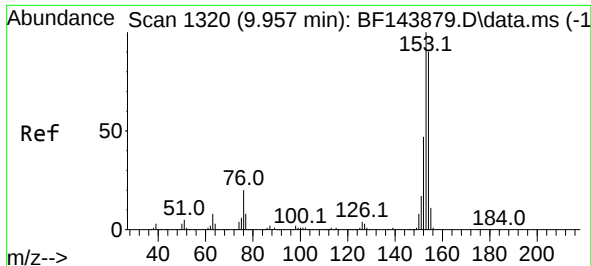
Tgt Ion:172 Resp: 522699
Ion Ratio Lower Upper
172 100
171 34.5 27.4 41.0
170 23.5 18.6 28.0



#51
2,6-Dinitrotoluene
Concen: 11.388 ng
RT: 9.922 min Scan# 1314
Delta R.T. 0.206 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

Tgt Ion:165 Resp: 24243
Ion Ratio Lower Upper
165 100
63 1.2 47.3 70.9#
89 1.6 38.2 57.4#

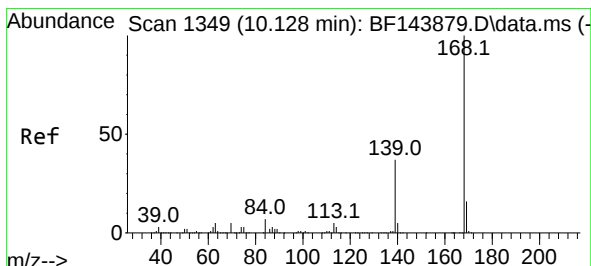
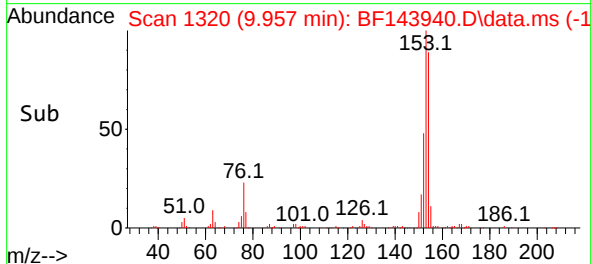
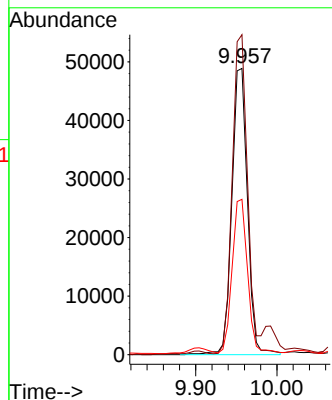
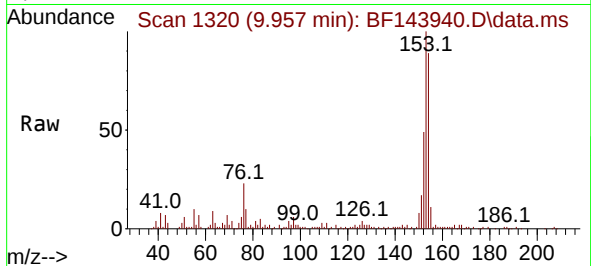




#52
Acenaphthene
Concen: 7.068 ng
RT: 9.957 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

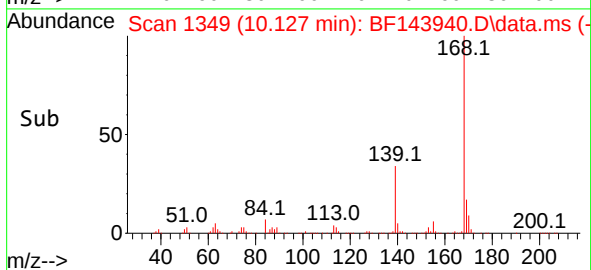
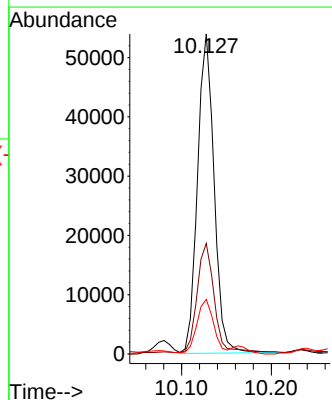
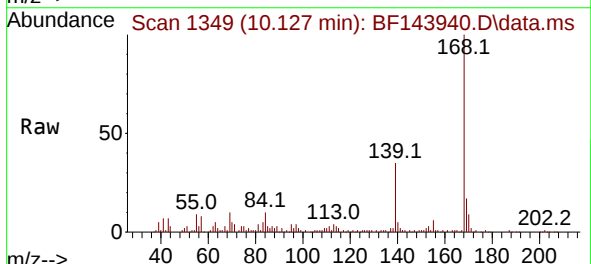
Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

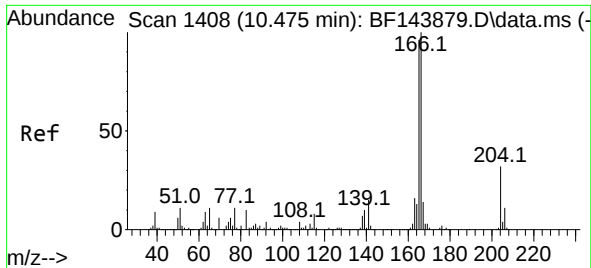
Tgt Ion:154 Resp: 64979
Ion Ratio Lower Upper
154 100
153 111.8 89.3 133.9
152 54.3 42.2 63.2



#55
Dibenzofuran
Concen: 5.321 ng
RT: 10.127 min Scan# 1349
Delta R.T. -0.006 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

Tgt Ion:168 Resp: 69044
Ion Ratio Lower Upper
168 100
139 34.5 29.8 44.8
169 17.0 12.8 19.2

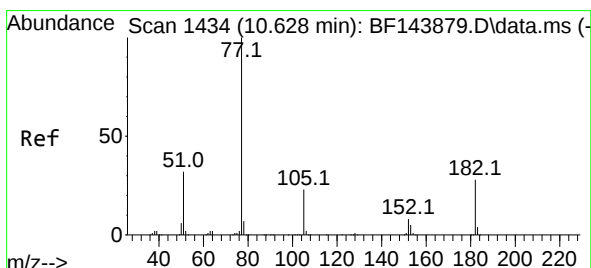
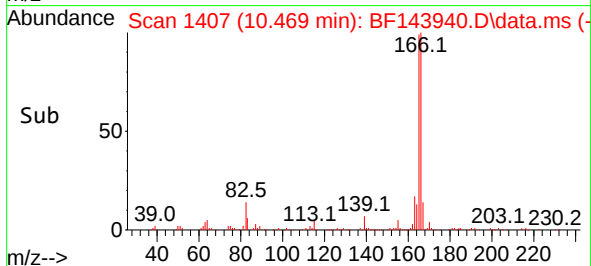
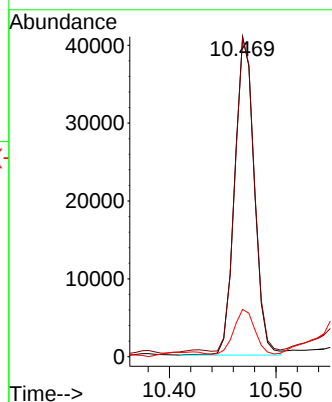
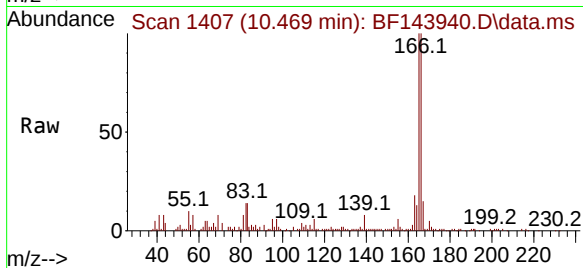




#58
Fluorene
Concen: 5.326 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

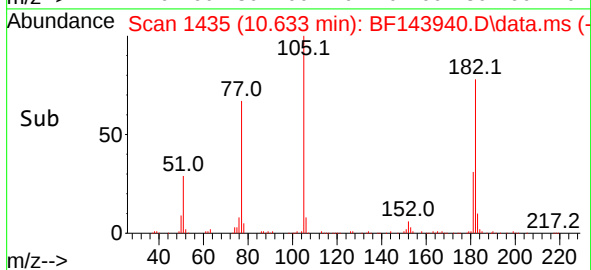
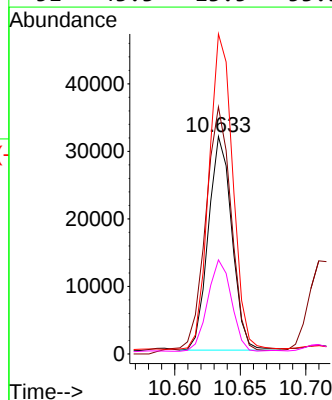
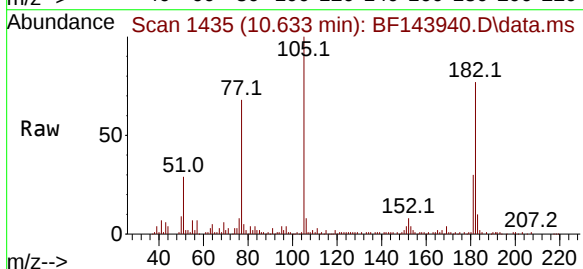
Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

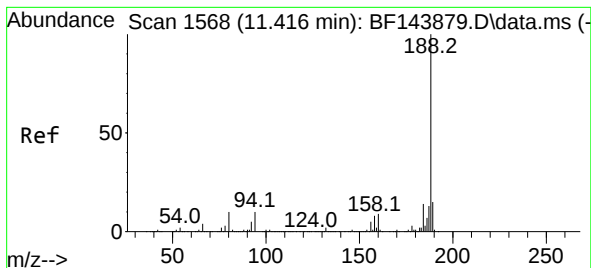
Tgt Ion:166 Resp: 52154
Ion Ratio Lower Upper
166 100
165 99.6 77.0 115.6
167 14.8 11.1 16.7



#63
Azobenzene
Concen: 3.556 ng
RT: 10.633 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

Tgt Ion: 77 Resp: 39641
Ion Ratio Lower Upper
77 100
182 113.7 7.3 47.3#
105 147.2 3.0 43.0#
51 43.3 13.5 53.5





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.416 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

Instrument :

BNA_F

ClientSampleId :

SED-05-0-2

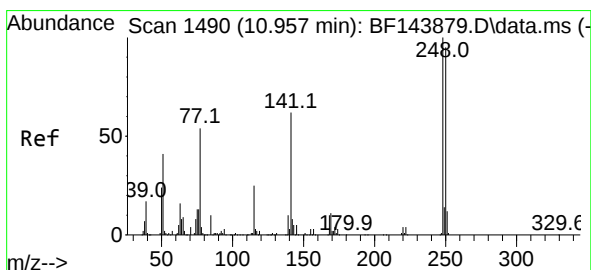
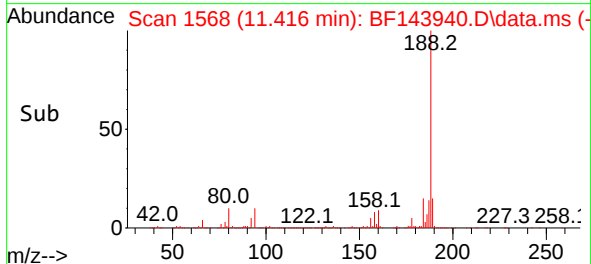
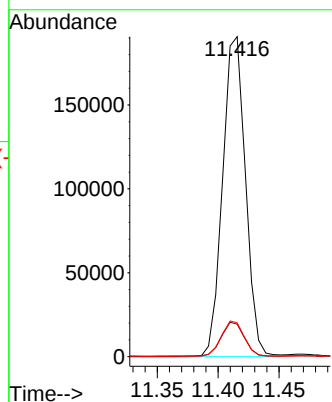
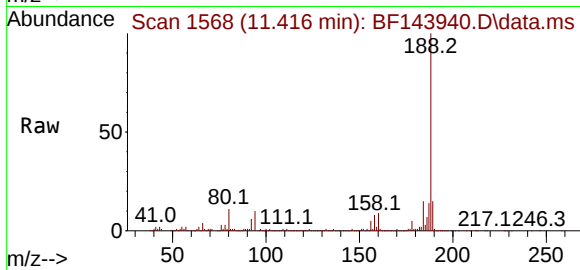
Tgt Ion:188 Resp: 249842

Ion Ratio Lower Upper

188 100

94 10.1 7.8 11.6

80 10.6 7.9 11.9



#67

4-Bromophenyl-phenylether

Concen: 2.408 ng

RT: 10.710 min Scan# 1448

Delta R.T. -0.253 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

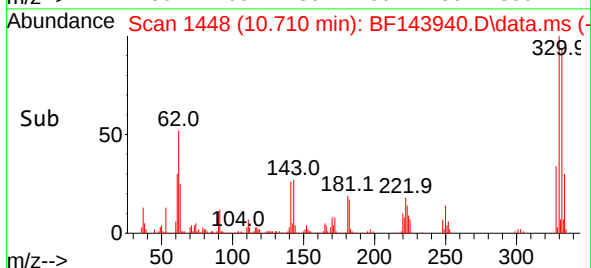
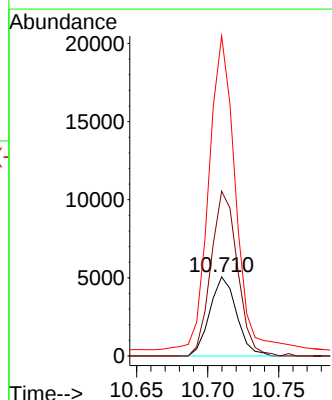
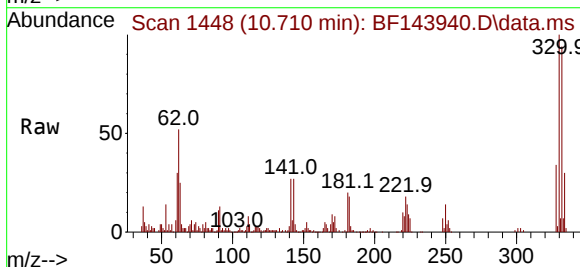
Tgt Ion:248 Resp: 6650

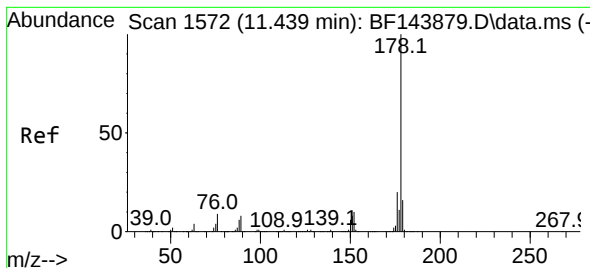
Ion Ratio Lower Upper

248 100

250 208.3 76.3 114.5#

141 404.5 49.7 74.5#





#71

Phenanthrene

Concen: 41.719 ng

RT: 11.439 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

Instrument :

BNA_F

ClientSampleId :

SED-05-0-2

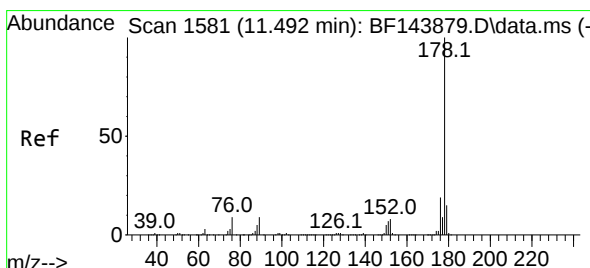
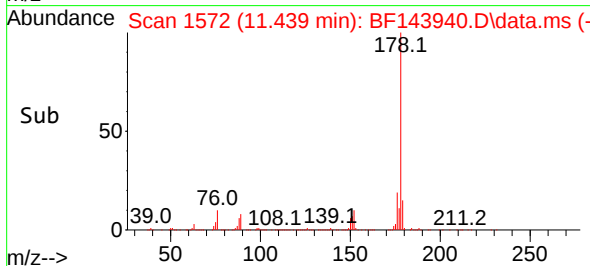
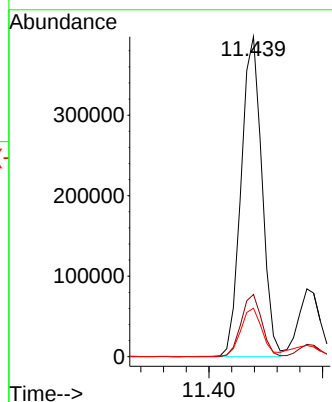
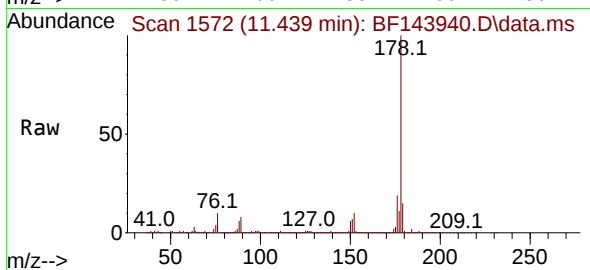
Tgt Ion:178 Resp: 505316

Ion Ratio Lower Upper

178 100

176 19.4 15.9 23.9

179 15.1 12.4 18.6



#72

Anthracene

Concen: 9.559 ng

RT: 11.486 min Scan# 1580

Delta R.T. -0.012 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

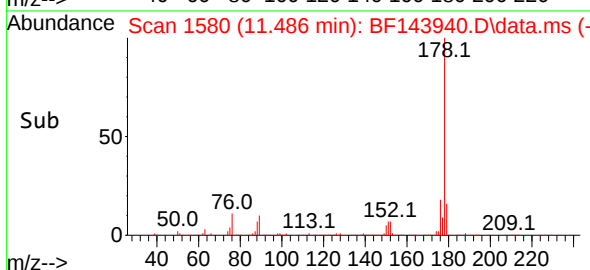
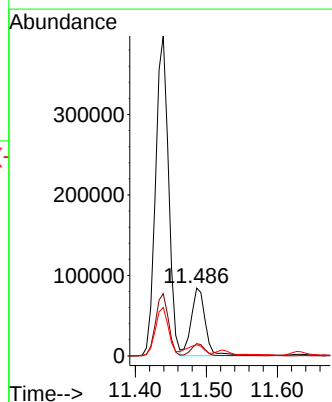
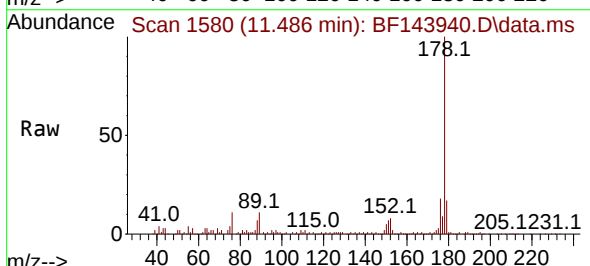
Tgt Ion:178 Resp: 116964

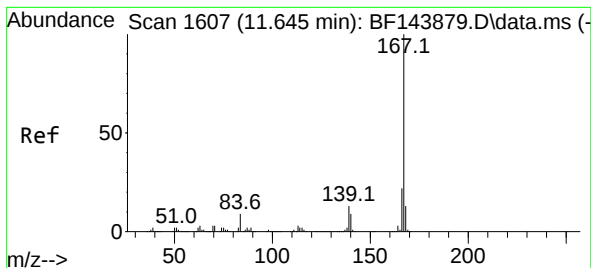
Ion Ratio Lower Upper

178 100

176 18.2 14.9 22.3

179 16.6 12.2 18.2





#73

Carbazole

Concen: 3.598 ng

RT: 11.645 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

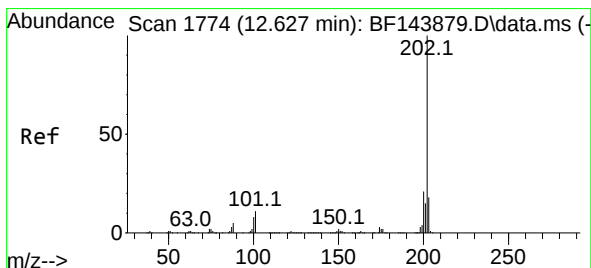
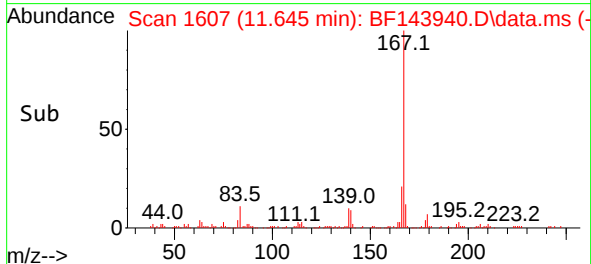
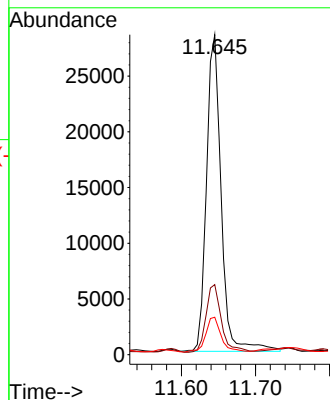
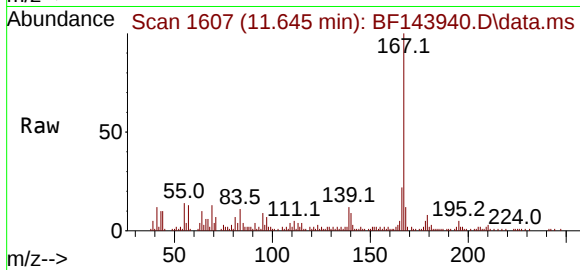
Instrument :

BNA_F

ClientSampleId :

SED-05-0-2

Tgt Ion:167	Resp:	38996
Ion Ratio	Lower	Upper
167	100	
166	21.9	17.2 25.8
139	11.7	10.1 15.1



#75

Fluoranthene

Concen: 34.944 ng

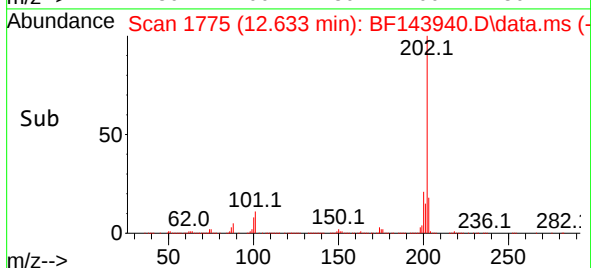
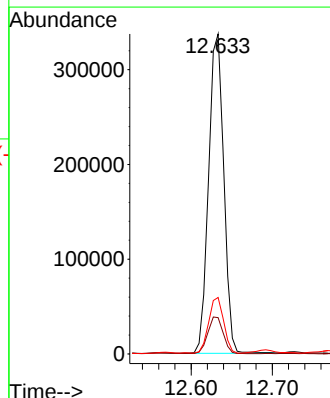
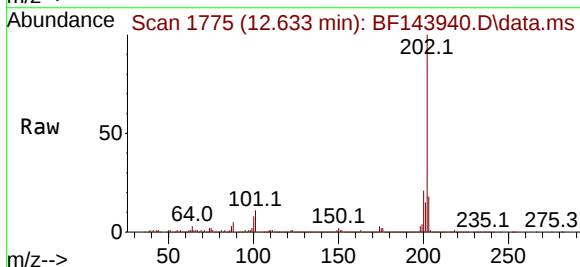
RT: 12.633 min Scan# 1775

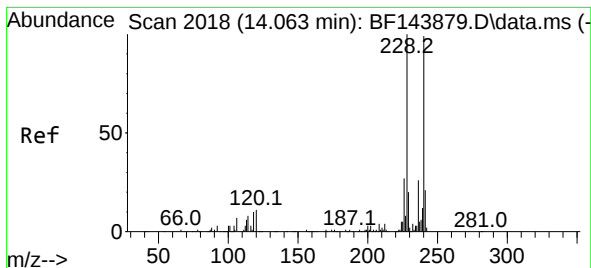
Delta R.T. 0.000 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

Tgt Ion:202	Resp:	437193
Ion Ratio	Lower	Upper
202	100	
101	11.3	0.0 30.7
203	17.6	0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 2018

Delta R.T. -0.005 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

Instrument :

BNA_F

ClientSampleId :

SED-05-0-2

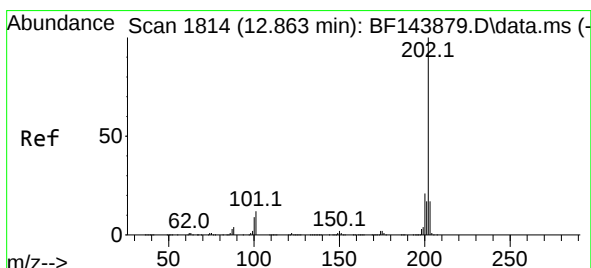
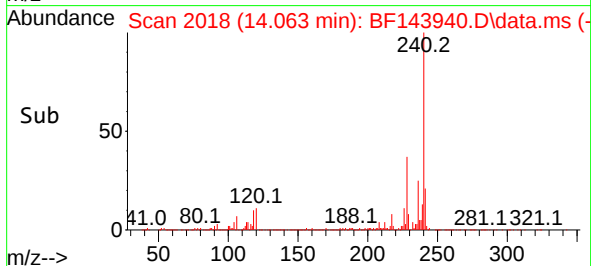
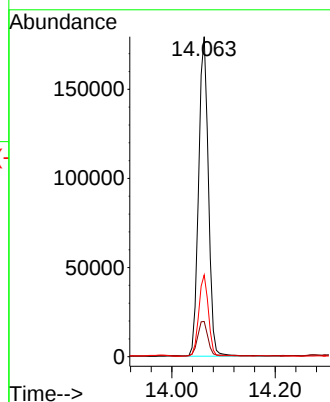
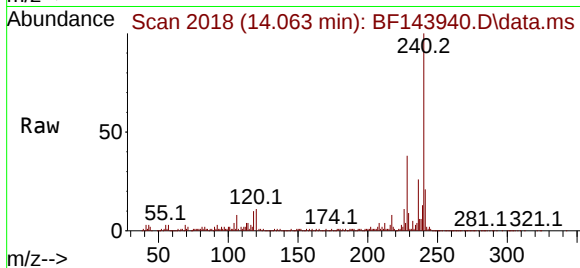
Tgt Ion:240 Resp: 234306

Ion Ratio Lower Upper

240 100

120 11.0 8.6 13.0

236 25.6 21.1 31.7



#78

Pyrene

Concen: 20.977 ng

RT: 12.863 min Scan# 1814

Delta R.T. 0.000 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

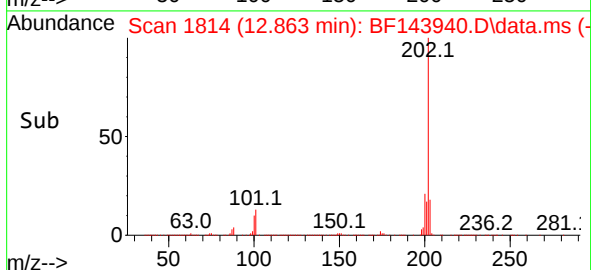
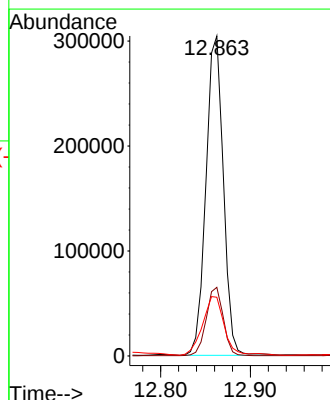
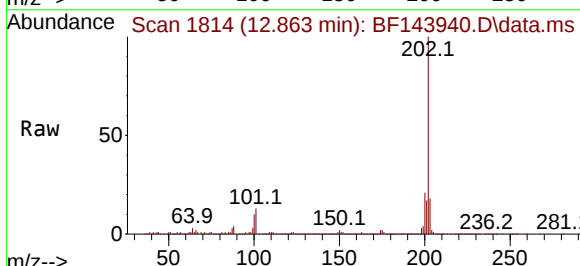
Tgt Ion:202 Resp: 409759

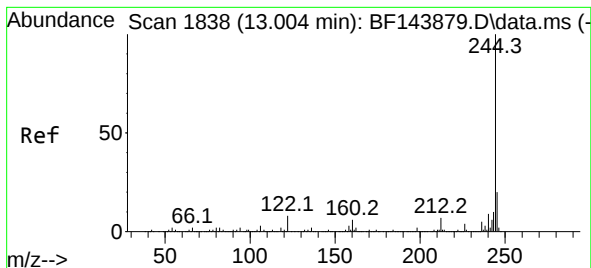
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 18.3 13.8 20.6





#79

Terphenyl-d14

Concen: 27.683 ng

RT: 13.004 min Scan# 1838

Delta R.T. -0.006 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

Instrument :

BNA_F

ClientSampleId :

SED-05-0-2

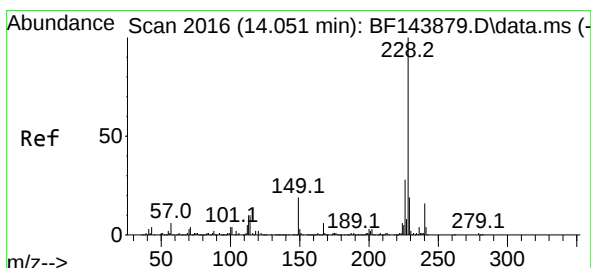
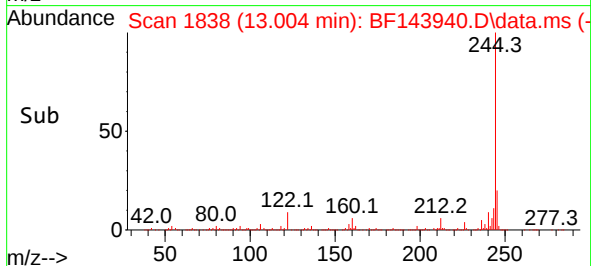
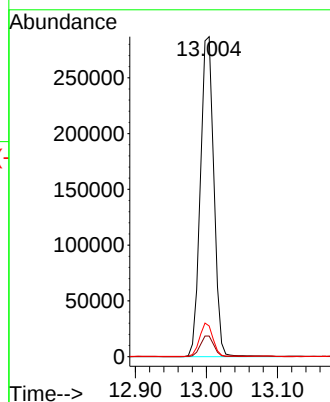
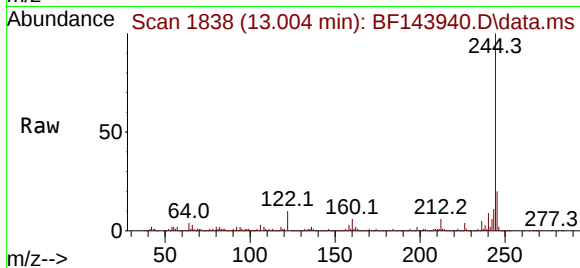
Tgt Ion:244 Resp: 379521

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.0

122 9.6 6.4 9.6



#81

Benzo(a)anthracene

Concen: 13.148 ng

RT: 14.051 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

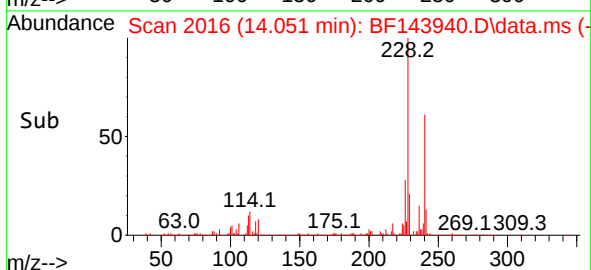
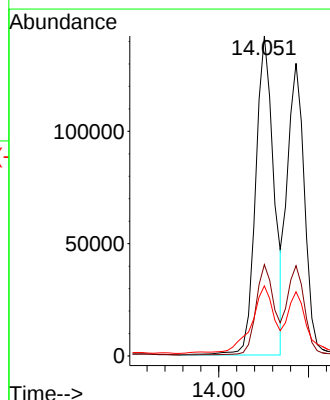
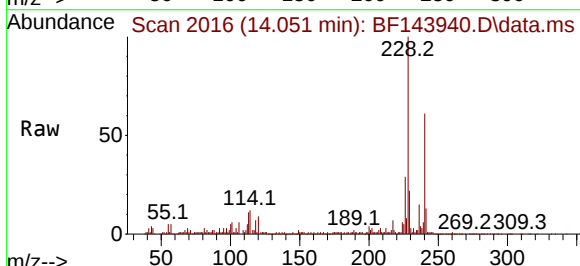
Tgt Ion:228 Resp: 201601

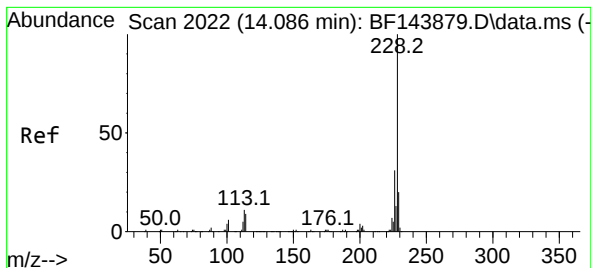
Ion Ratio Lower Upper

228 100

226 28.5 22.2 33.2

229 21.9 15.6 23.4





#83

Chrysene

Concen: 12.020 ng

RT: 14.086 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

Instrument :

BNA_F

ClientSampleId :

SED-05-0-2

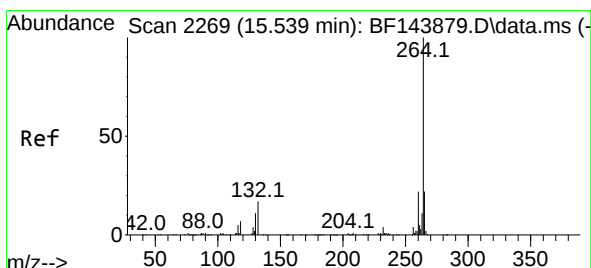
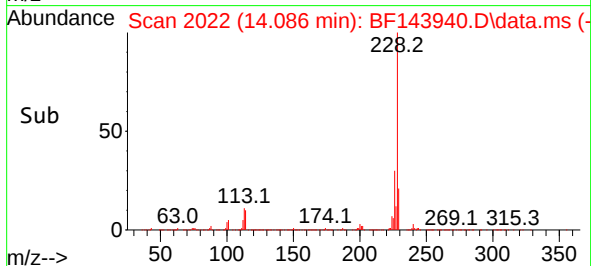
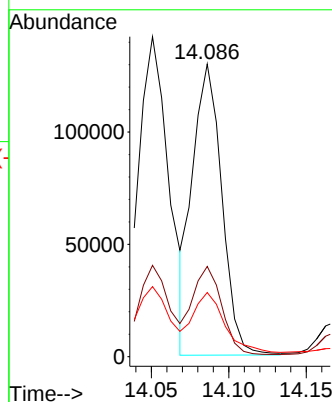
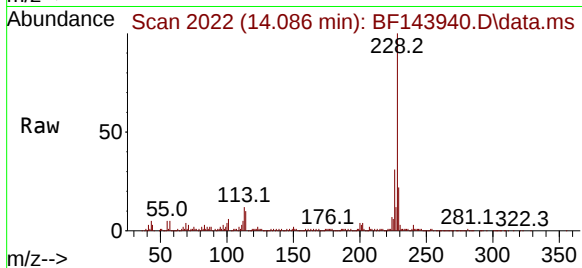
Tgt Ion:228 Resp: 170576

Ion Ratio Lower Upper

228 100

226 30.9 24.4 36.6

229 21.9 15.9 23.9



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 2270

Delta R.T. 0.000 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

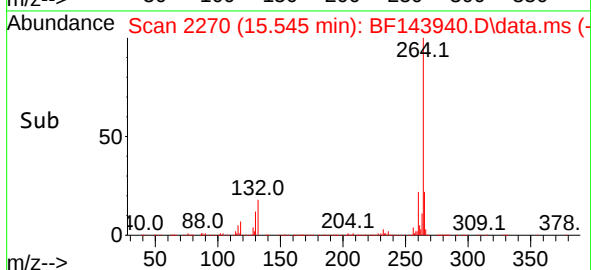
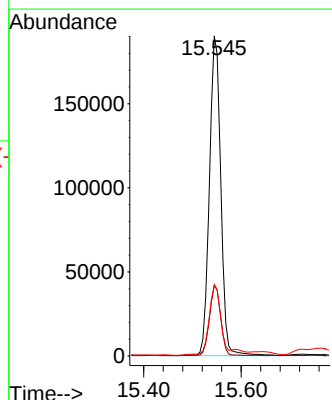
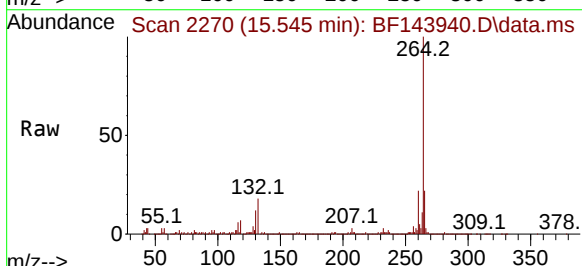
Tgt Ion:264 Resp: 306494

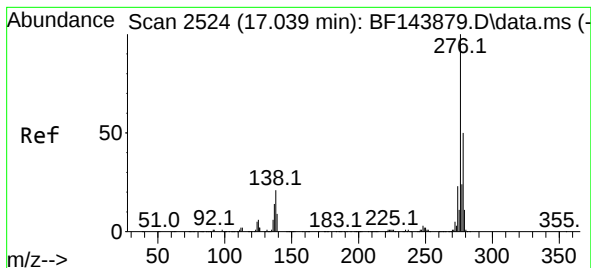
Ion Ratio Lower Upper

264 100

260 22.0 17.8 26.8

265 22.3 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.735 ng

RT: 17.039 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

Instrument :

BNA_F

ClientSampleId :

SED-05-0-2

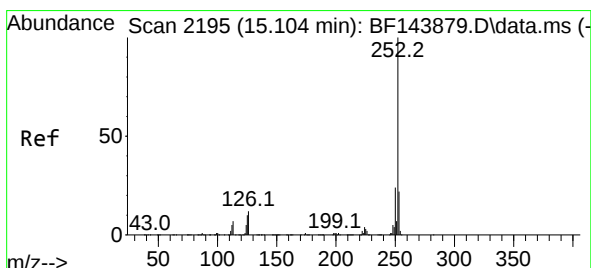
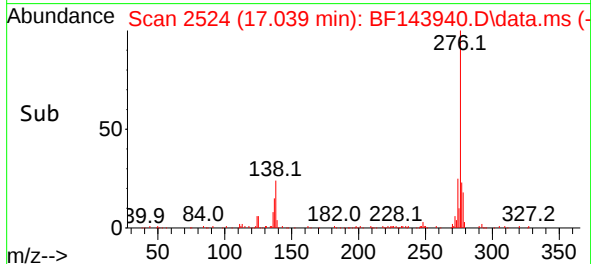
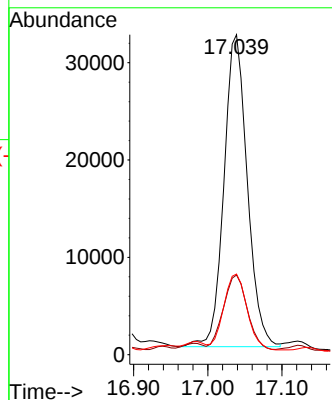
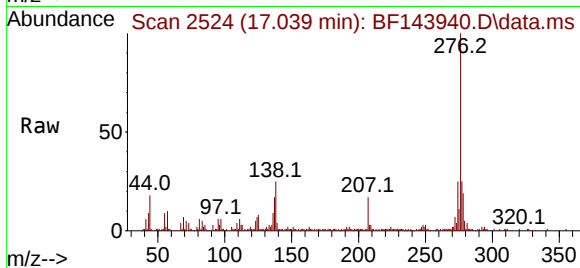
Tgt Ion:276 Resp: 70144

Ion Ratio Lower Upper

276 100

138 25.4 18.2 27.2

277 24.6 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 15.374 ng

RT: 15.110 min Scan# 2196

Delta R.T. -0.006 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

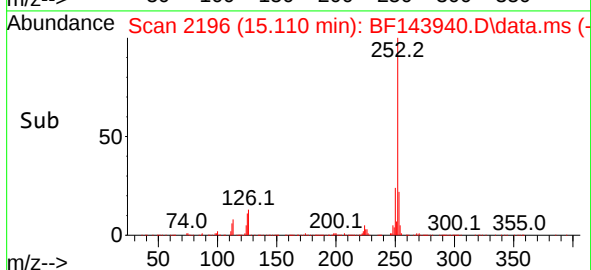
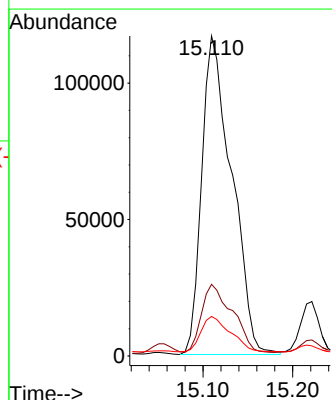
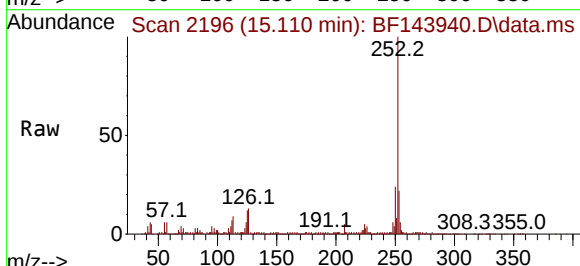
Tgt Ion:252 Resp: 270679

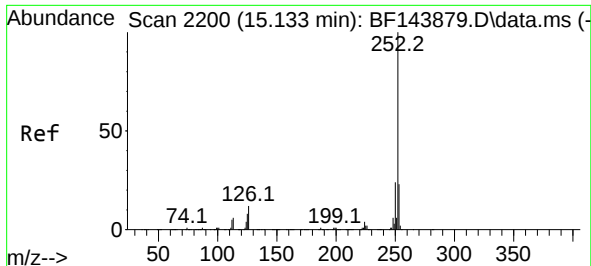
Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.2

125 12.4 7.8 11.6#





#89

Benzo(k)fluoranthene

Concen: 16.615 ng

RT: 15.110 min Scan# 2196

Delta R.T. -0.035 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

Instrument :

BNA_F

ClientSampleId :

SED-05-0-2

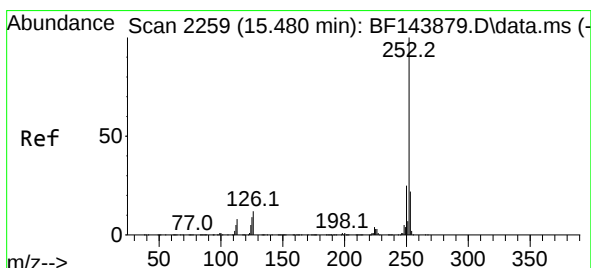
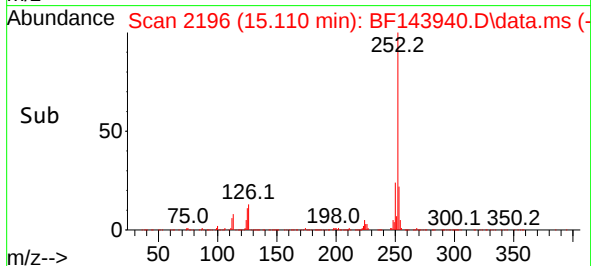
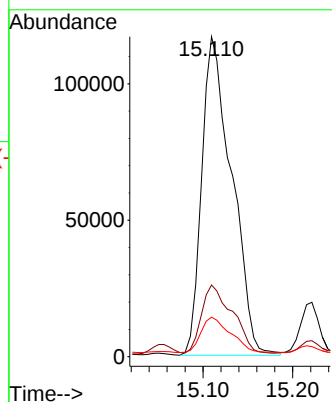
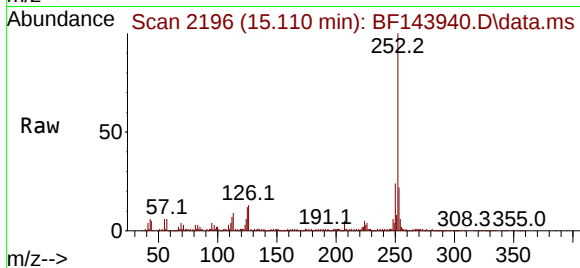
Tgt Ion:252 Resp: 270679

Ion Ratio Lower Upper

252 100

253 22.4 17.8 26.8

125 12.4 7.4 11.2#



#90

Benzo(a)pyrene

Concen: 10.489 ng

RT: 15.480 min Scan# 2259

Delta R.T. -0.006 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

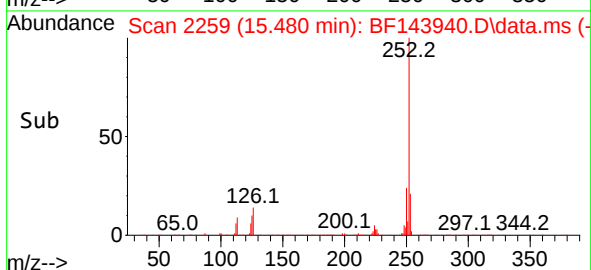
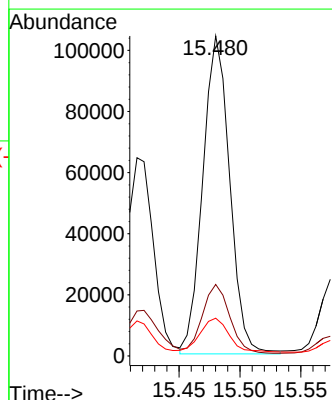
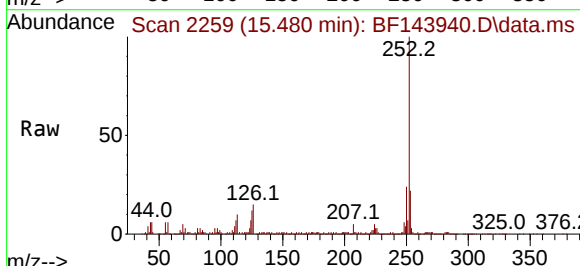
Tgt Ion:252 Resp: 160121

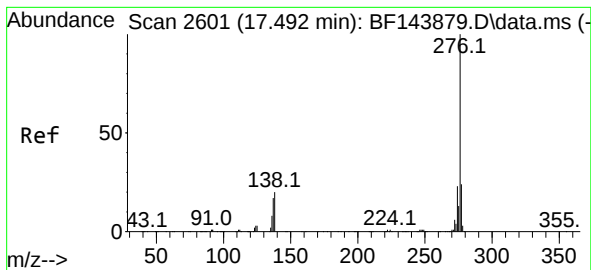
Ion Ratio Lower Upper

252 100

253 22.4 17.3 25.9

125 11.8 7.0 10.4#





#92

Benzo(g,h,i)perylene

Concen: 4.509 ng

RT: 17.492 min Scan# 20

Delta R.T. -0.023 min

Lab File: BF143940.D

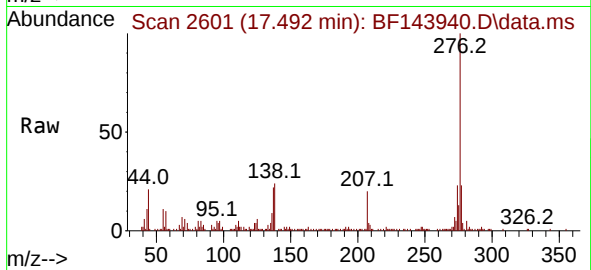
Acq: 13 Oct 2025 18:58

Instrument :

BNA_F

ClientSampleId :

SED-05-0-2



Tgt Ion:276 Resp: 68104

Ion Ratio Lower Upper

276 100

277 23.4 19.0 28.6

138 24.3 16.1 24.1#

