

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)

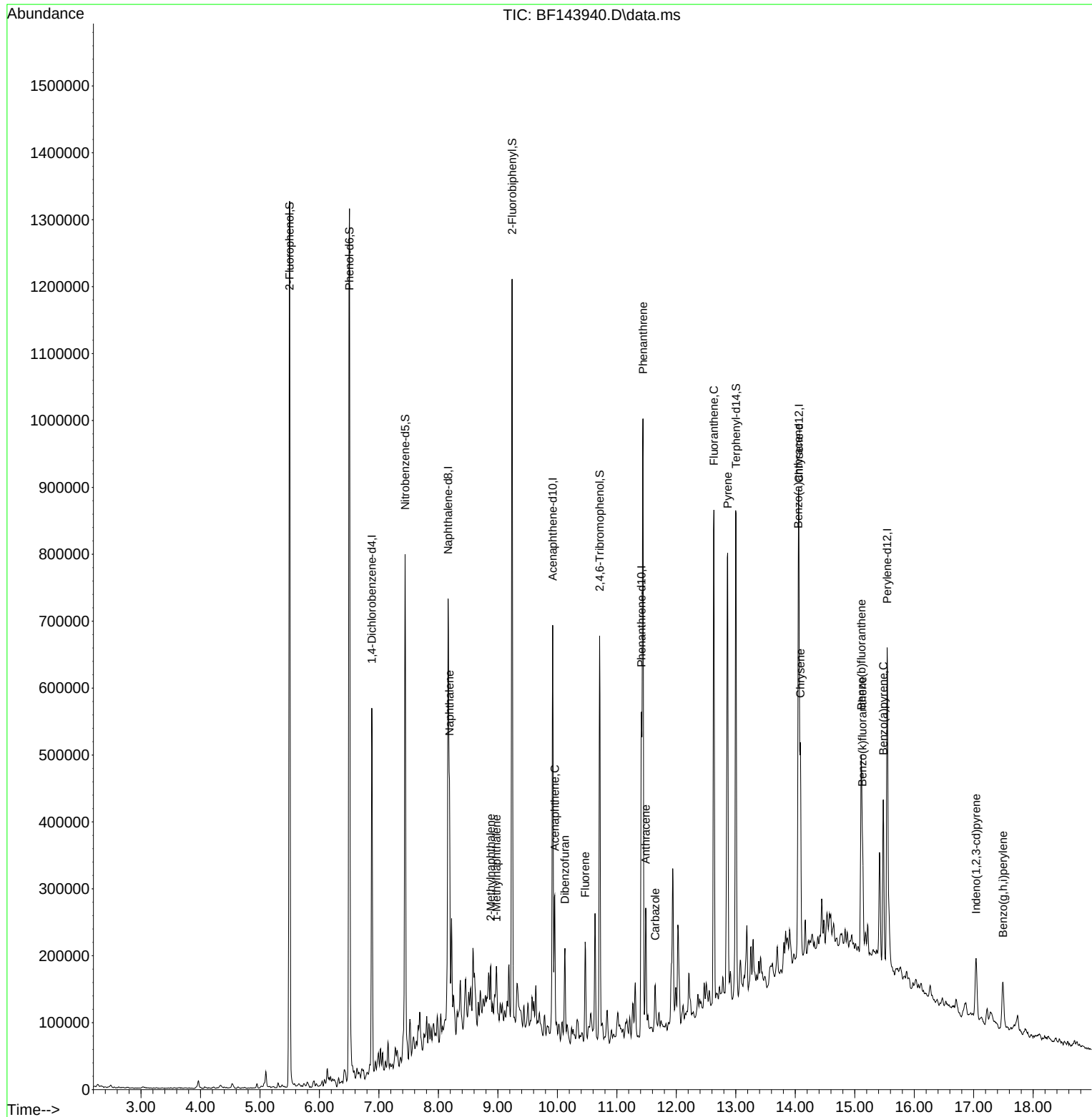
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	107651	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	379182	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	180774	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	249842	20.000	ng	0.00
76) Chrysene-d12	14.063	240	234306	20.000	ng	0.00
86) Perylene-d12	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
31) Naphthalene	8.186	128	196848	11.412	ng	99
37) 2-Methylnaphthalene	8.881	142	35334	3.075	ng	93
38) 1-Methylnaphthalene	8.975	142	29223	2.622	ng	100
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
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	205033m	11.646	ng	
89) Benzo(k)fluoranthene	15.127	252	63764m	3.914	ng	
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

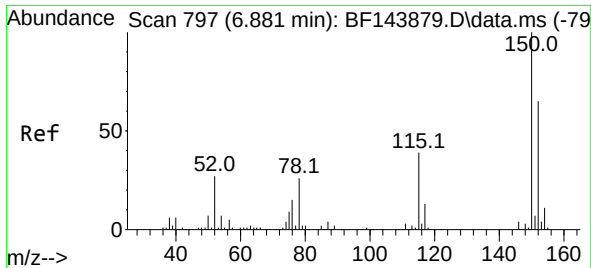
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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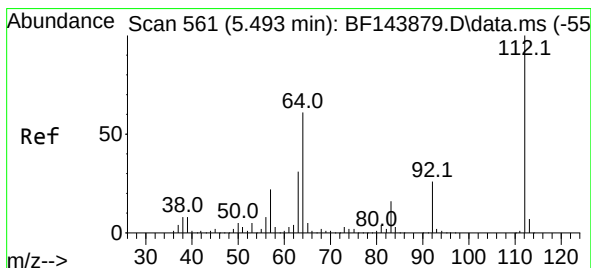
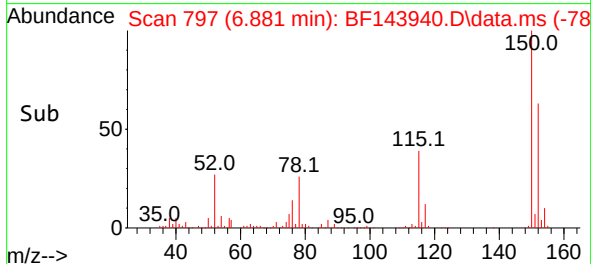
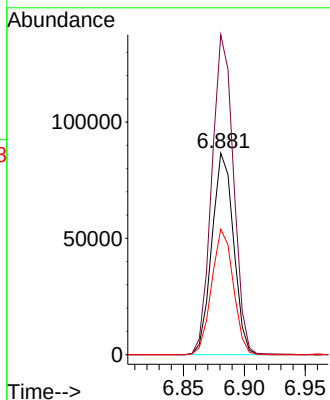
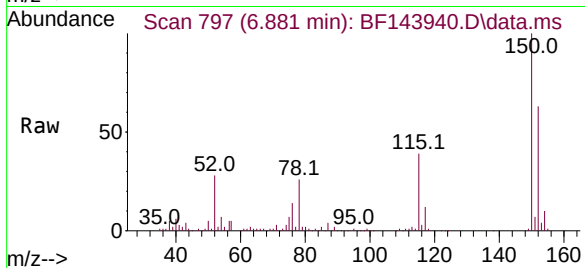




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 79
Delta R.T. -0.005 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

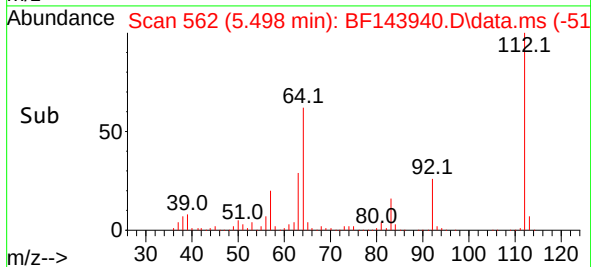
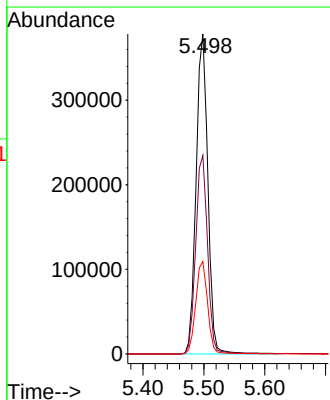
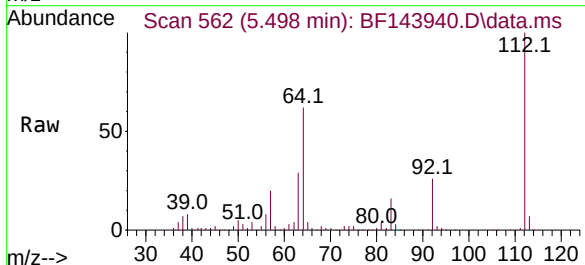
Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

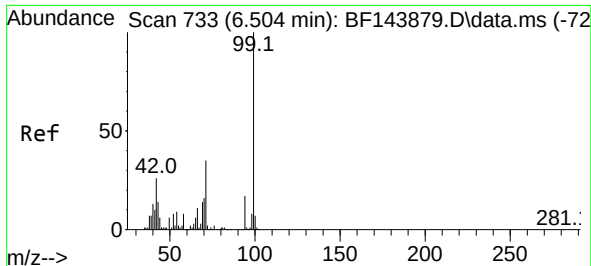
Tgt Ion:152 Resp: 107651
Ion Ratio Lower Upper
152 100
150 158.8 124.4 186.6
115 62.2 48.1 72.1



#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

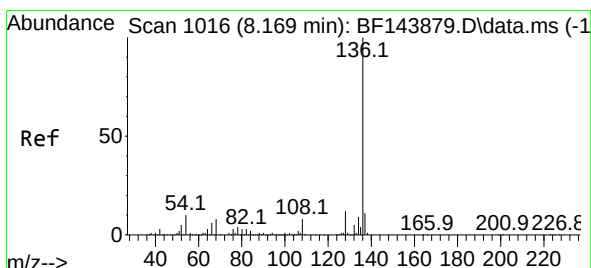
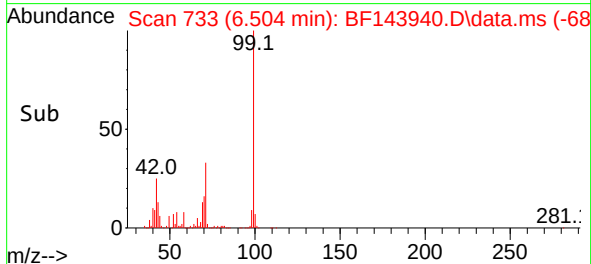
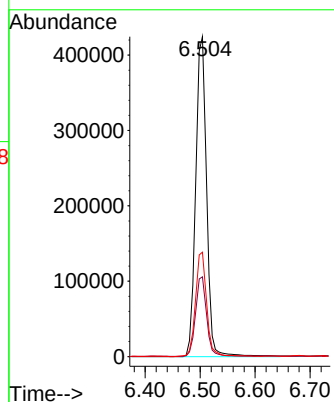
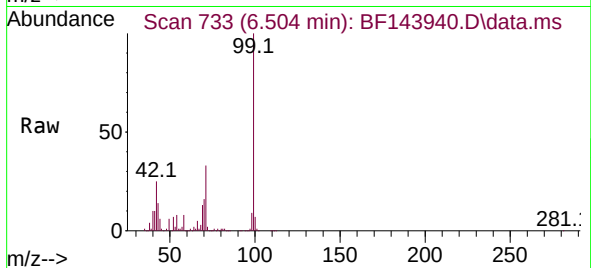




#7
Phenol-d6
Concen: 72.571 ng
RT: 6.504 min Scan# 733
Delta R.T. -0.012 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

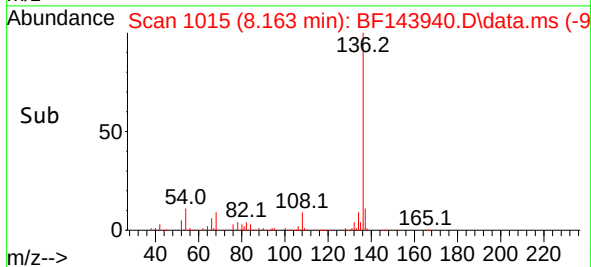
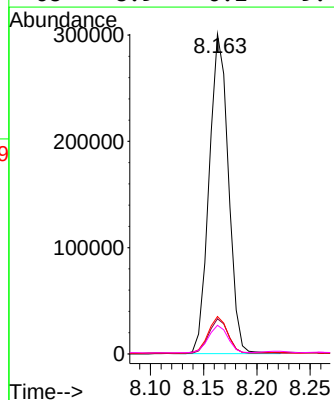
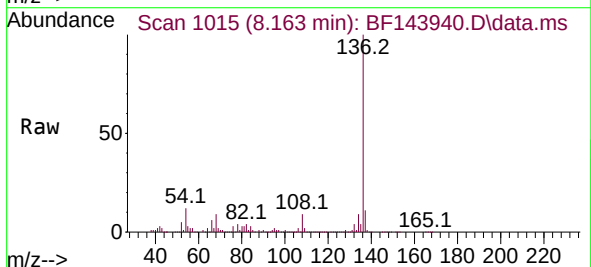
Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

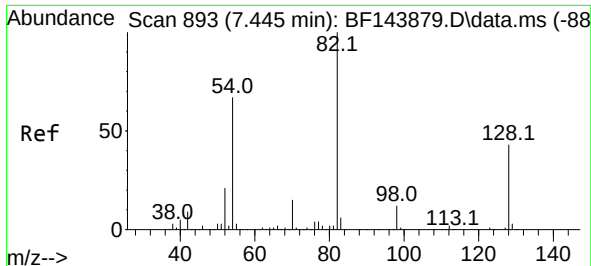
Tgt Ion: 99 Resp: 586402
Ion Ratio Lower Upper
99 100
42 24.9 21.0 31.4
71 32.6 27.8 41.8



#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# 89

Delta R.T. -0.018 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

Instrument :

BNA_F

ClientSampleId :

SED-05-0-2

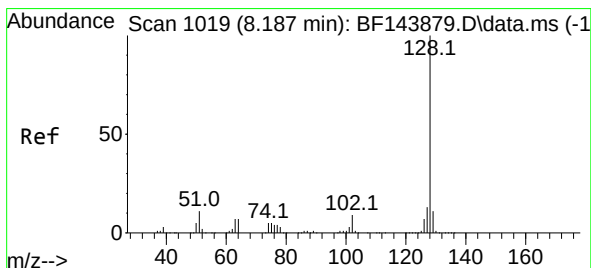
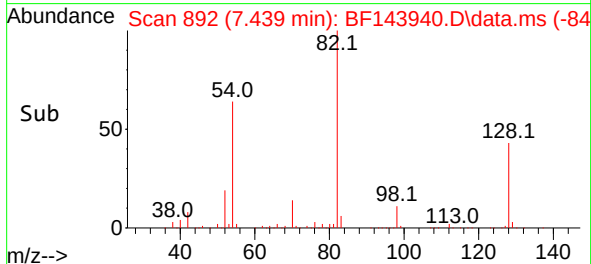
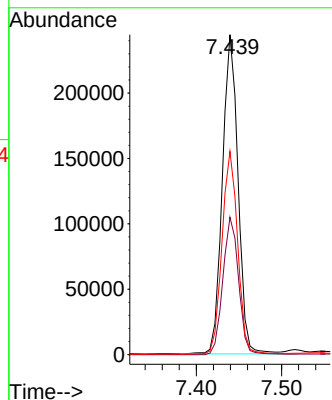
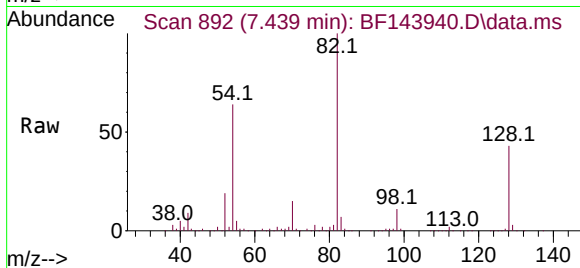
Tgt Ion: 82 Resp: 311747

Ion Ratio Lower Upper

82 100

128 42.9 34.0 51.0

54 63.5 53.2 79.8



#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

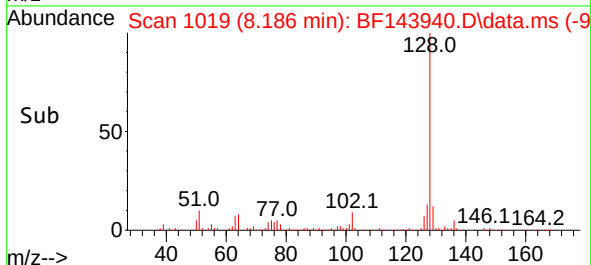
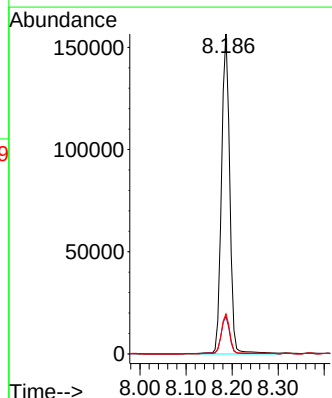
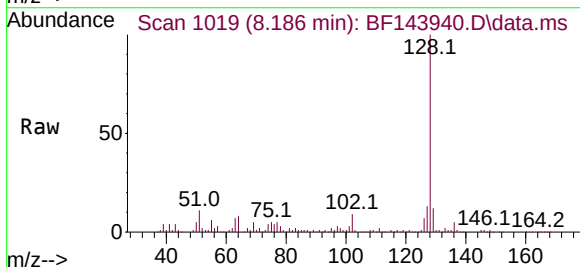
Tgt Ion:128 Resp: 196848

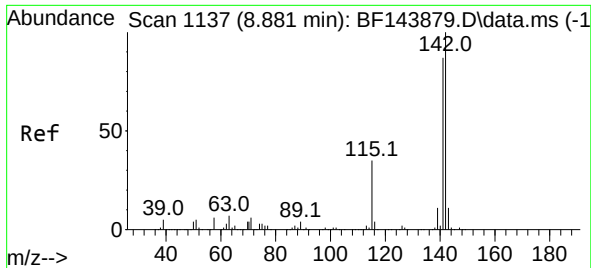
Ion Ratio Lower Upper

128 100

129 11.7 8.7 13.1

127 12.5 10.0 15.0

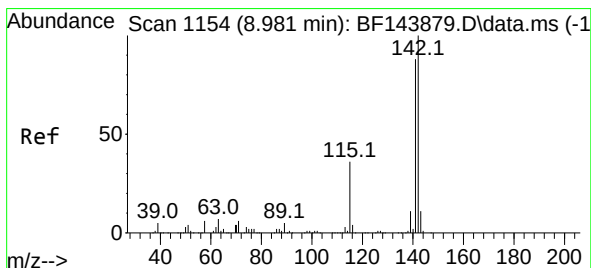
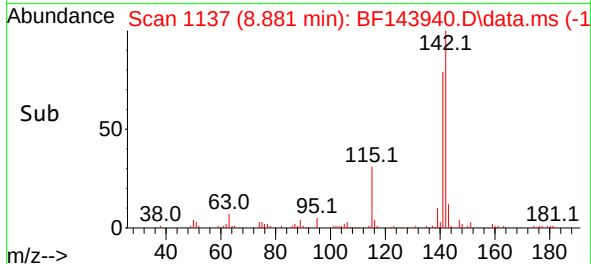
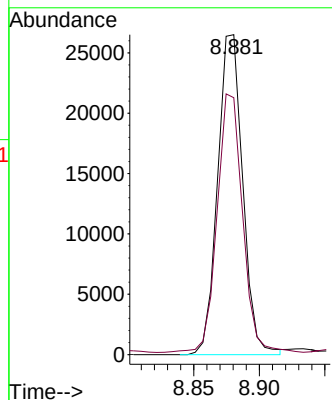
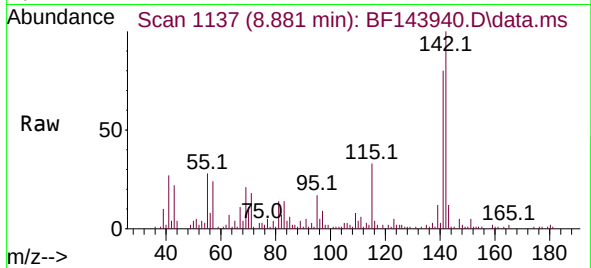




#37
2-Methylnaphthalene
Concen: 3.075 ng
RT: 8.881 min Scan# 1137
Delta R.T. -0.006 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

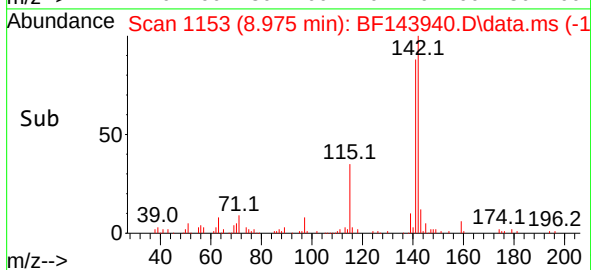
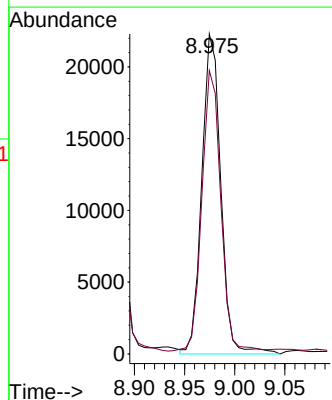
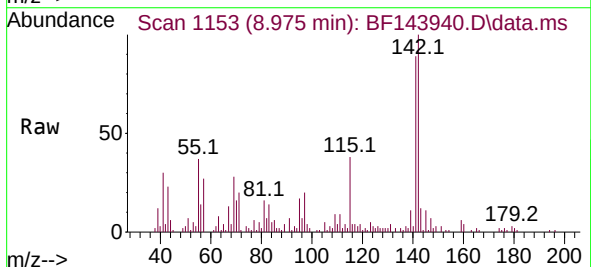
Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

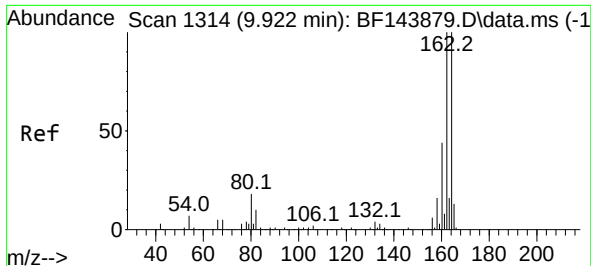
Tgt Ion:142 Resp: 35334
Ion Ratio Lower Upper
142 100
141 80.3 69.2 103.8



#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

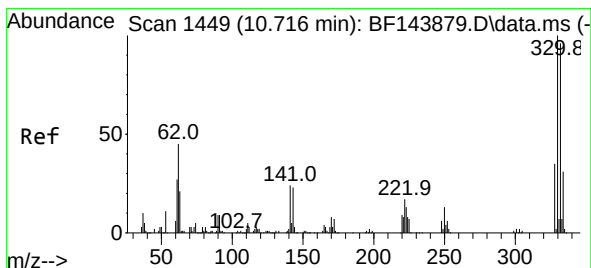
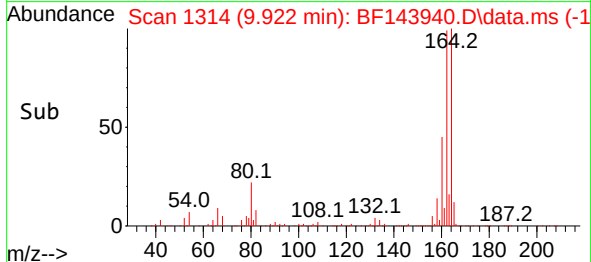
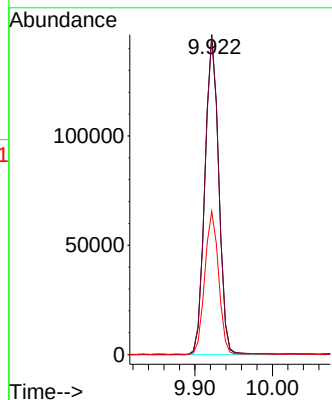
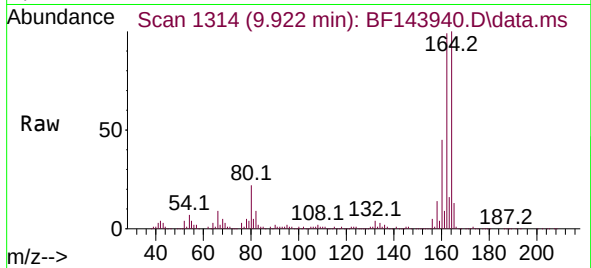




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

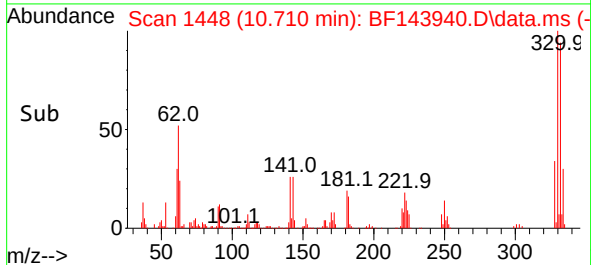
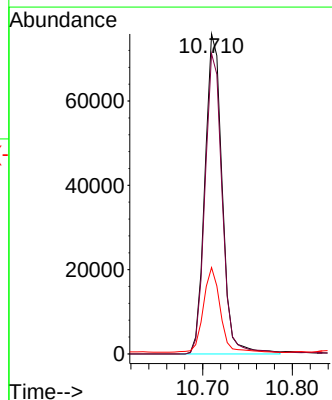
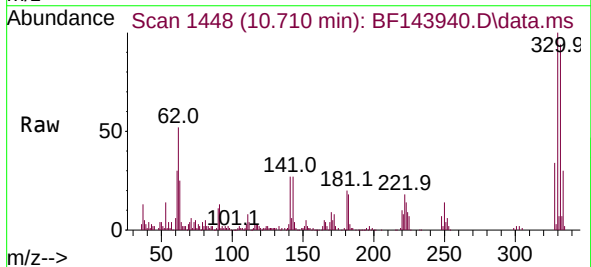
Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

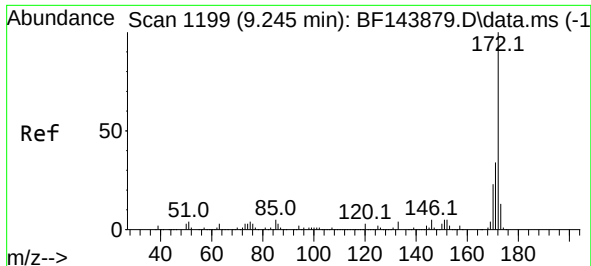
Tgt Ion:164 Resp: 180774
Ion Ratio Lower Upper
164 100
162 99.2 80.2 120.2
160 44.7 35.4 53.0



#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

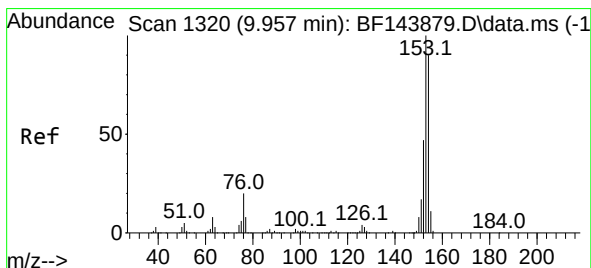
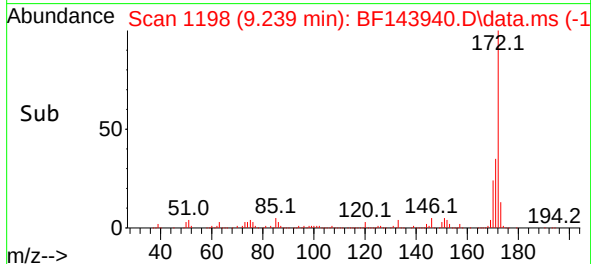
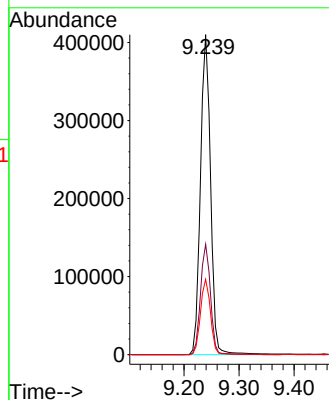
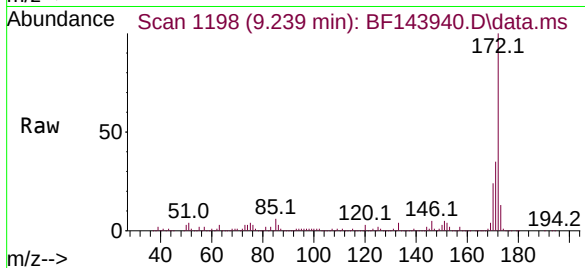
Tgt Ion:172 Resp: 522699

Ion Ratio Lower Upper

172 100

171 34.5 27.4 41.0

170 23.5 18.6 28.0



#52

Acenaphthene

Concen: 7.068 ng

RT: 9.957 min Scan# 1320

Delta R.T. -0.006 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

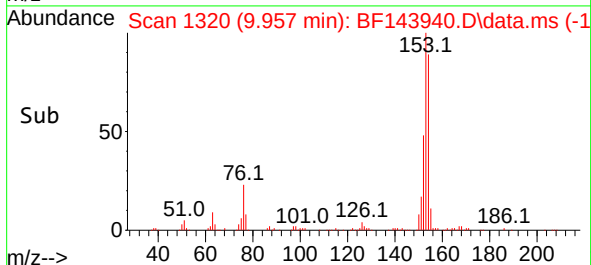
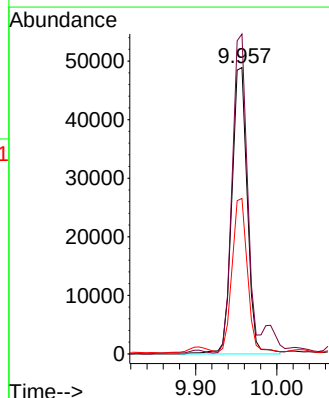
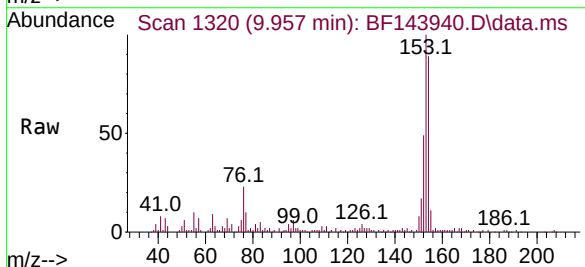
Tgt Ion:154 Resp: 64979

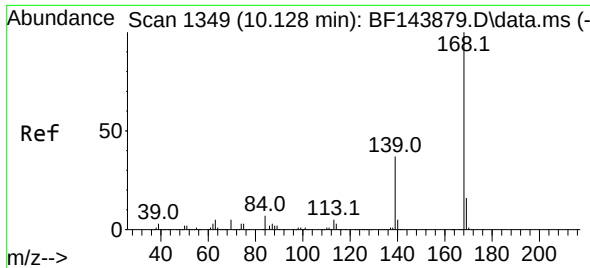
Ion Ratio Lower Upper

154 100

153 111.8 89.3 133.9

152 54.3 42.2 63.2

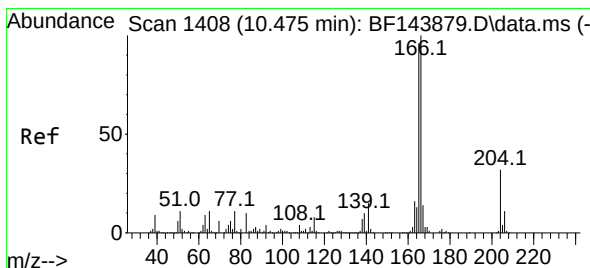
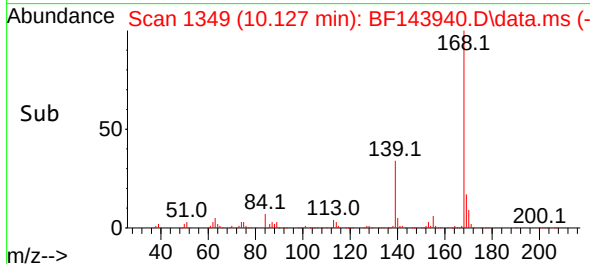
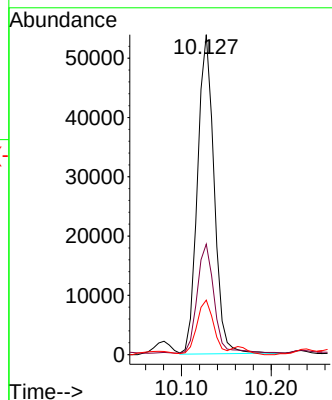
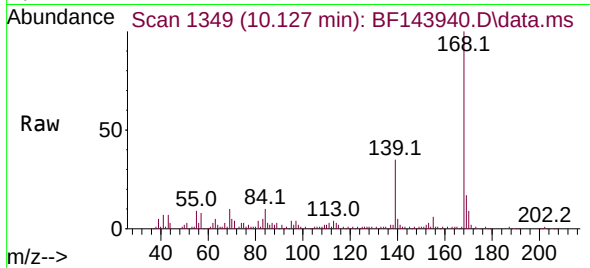




#55
Dibenzenofuran
Concen: 5.321 ng
RT: 10.127 min Scan# 1349
Delta R.T. -0.006 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

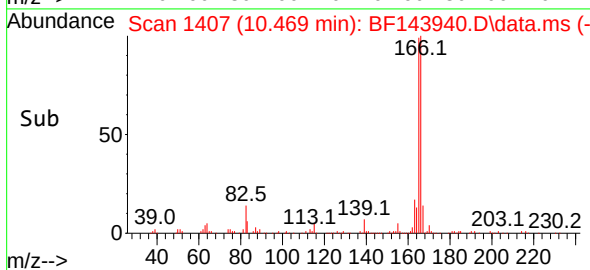
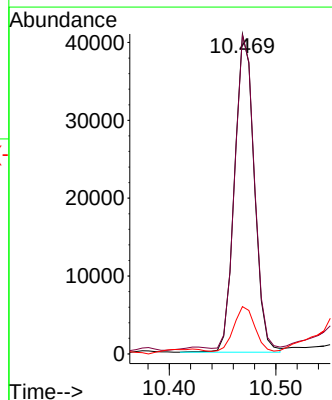
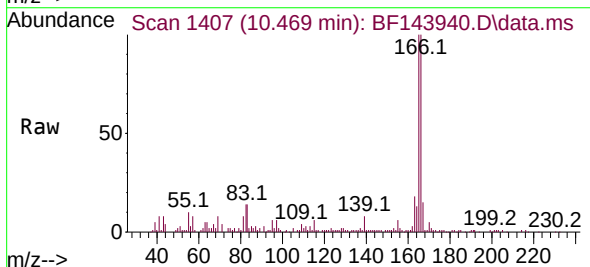
Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

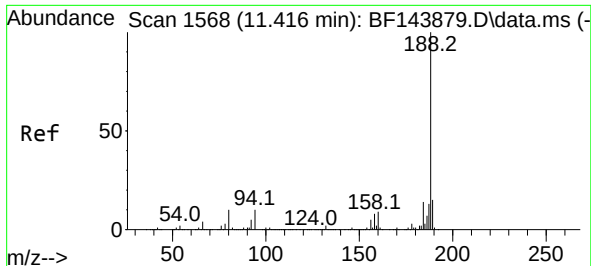
Tgt Ion:168 Resp: 69044
Ion Ratio Lower Upper
168 100
139 34.5 29.8 44.8
169 17.0 12.8 19.2



#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

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

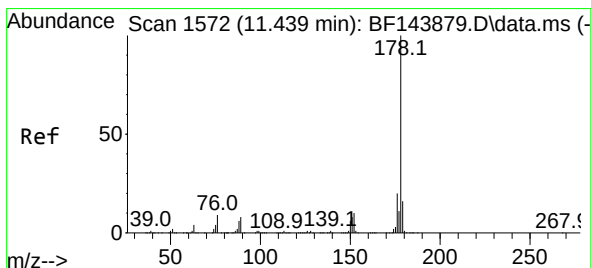
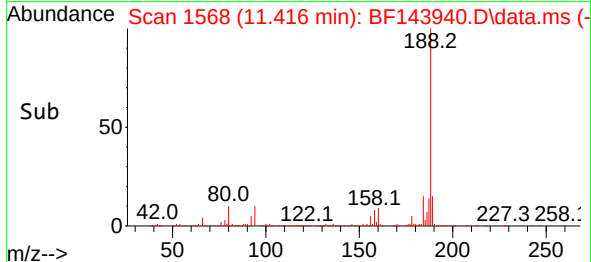
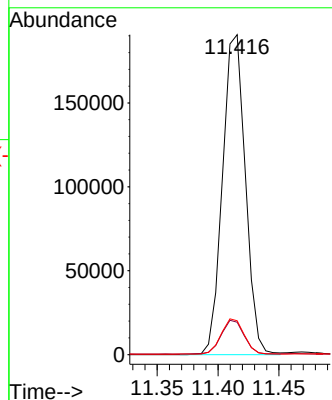
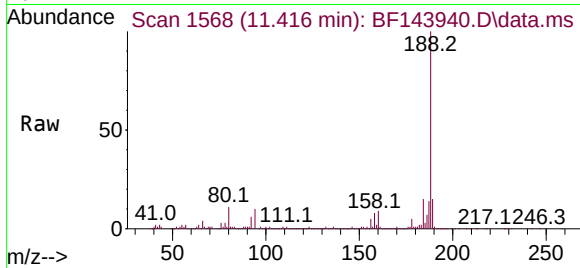




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

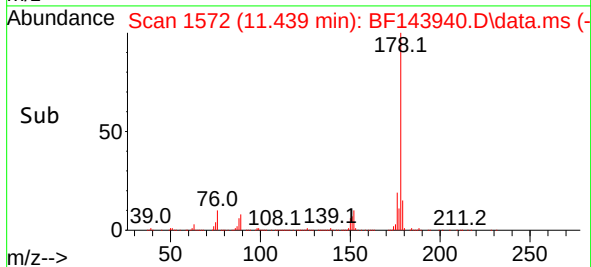
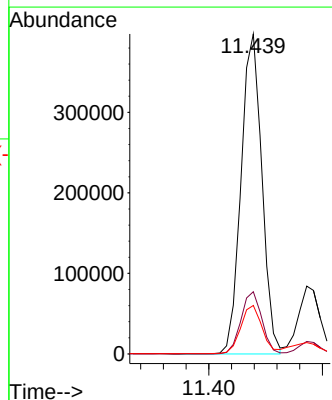
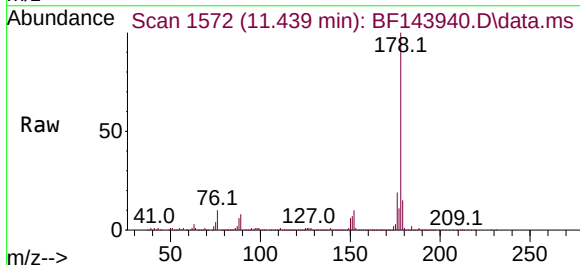
Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

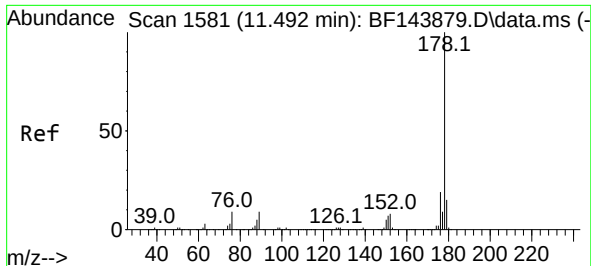
Tgt Ion:188 Resp: 249842
Ion Ratio Lower Upper
188 100
94 10.1 7.8 11.6
80 10.6 7.9 11.9



#71
Phenanthrene
Concen: 41.719 ng
RT: 11.439 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

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

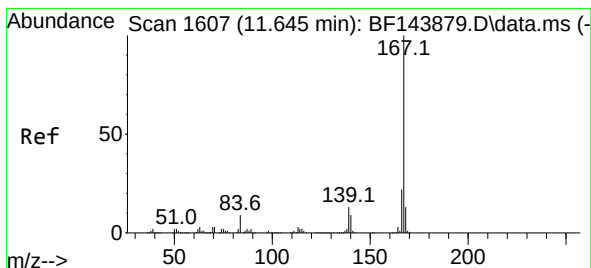
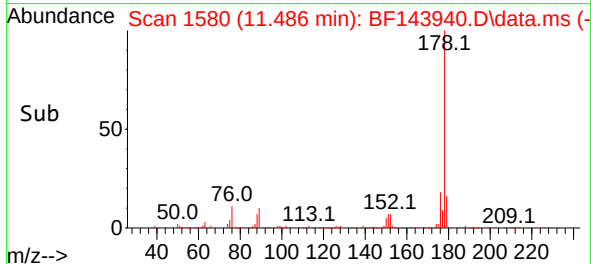
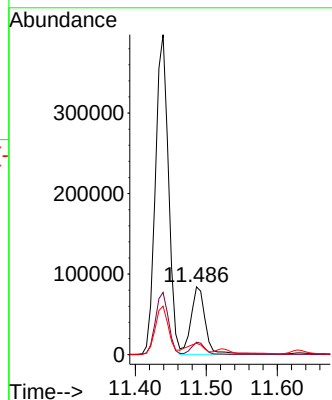
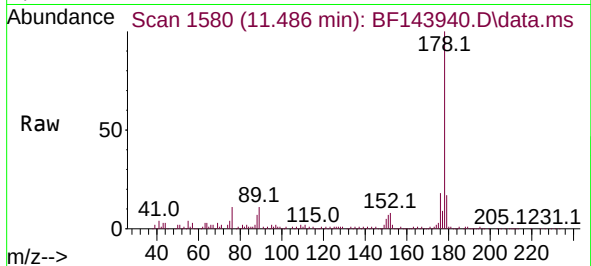




#72
Anthracene
Concen: 9.559 ng
RT: 11.486 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

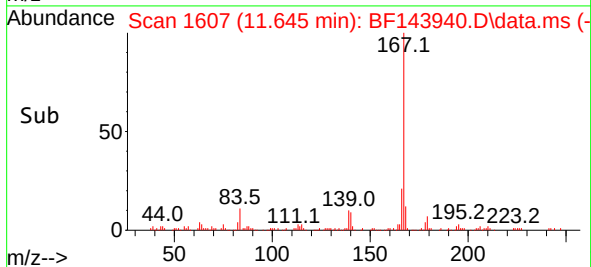
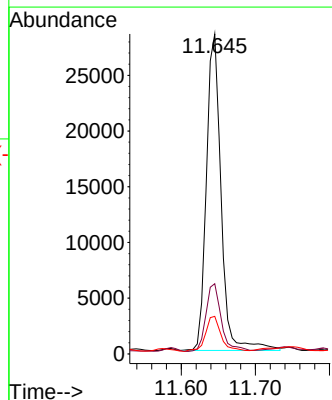
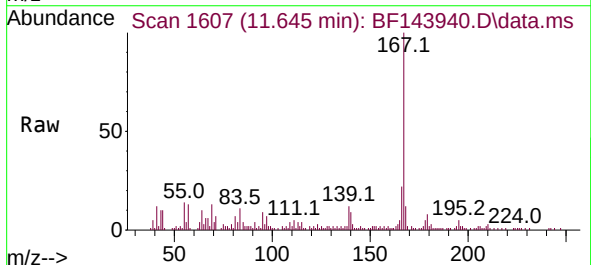
Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

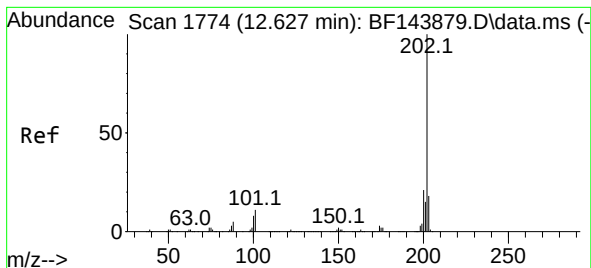
Tgt Ion:178 Resp: 116964
Ion Ratio Lower Upper
178 100
176 18.2 14.9 22.3
179 16.6 12.2 18.2



#73
Carbazole
Concen: 3.598 ng
RT: 11.645 min Scan# 1607
Delta R.T. -0.006 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

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

Instrument :

BNA_F

ClientSampleId :

SED-05-0-2

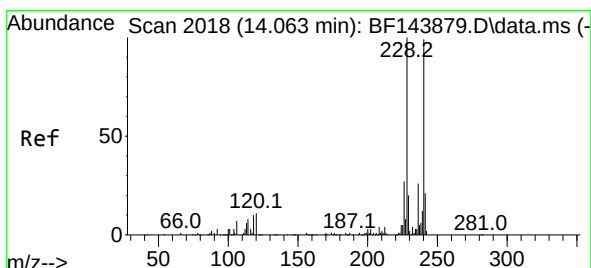
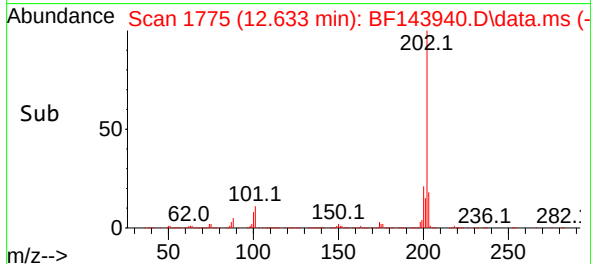
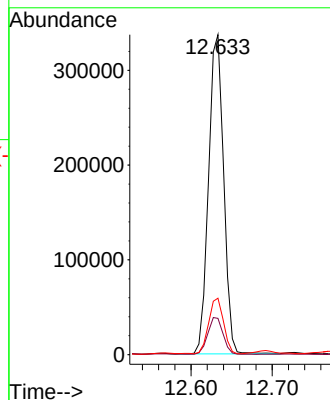
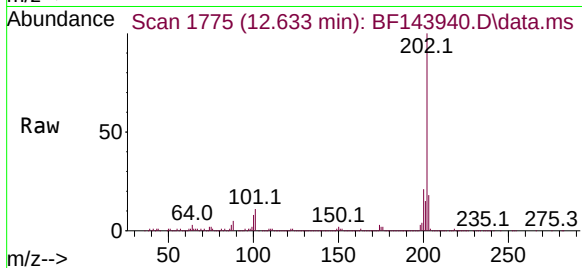
Tgt Ion:202 Resp: 437193

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

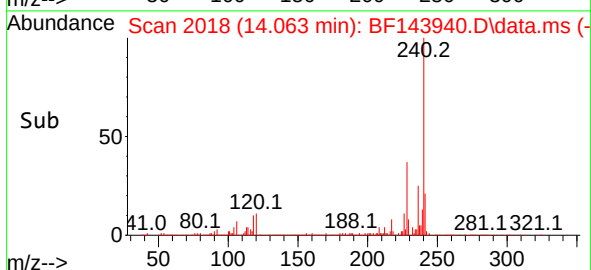
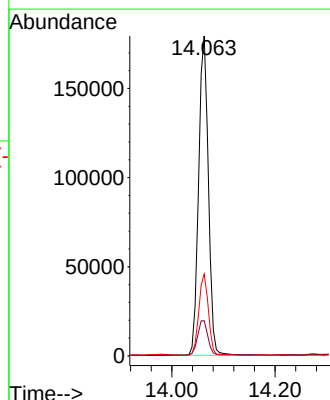
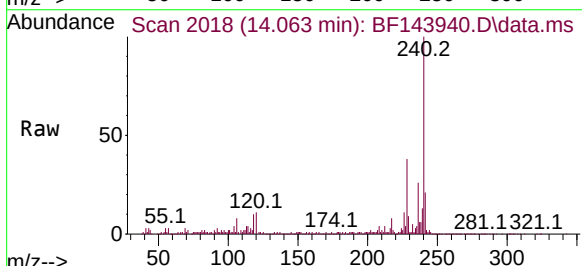
Tgt Ion:240 Resp: 234306

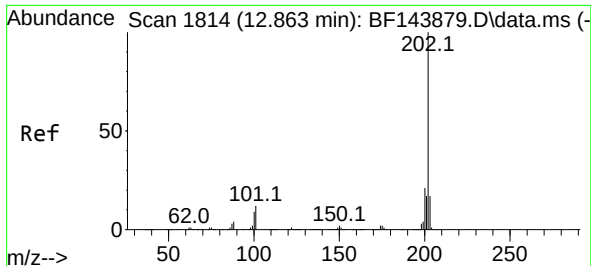
Ion Ratio Lower Upper

240 100

120 11.0 8.6 13.0

236 25.6 21.1 31.7

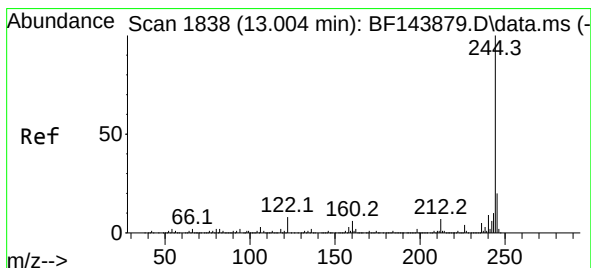
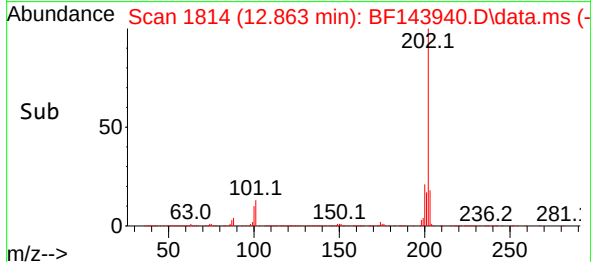
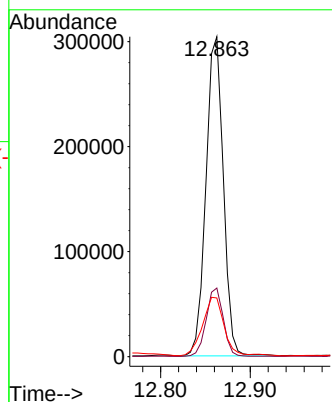
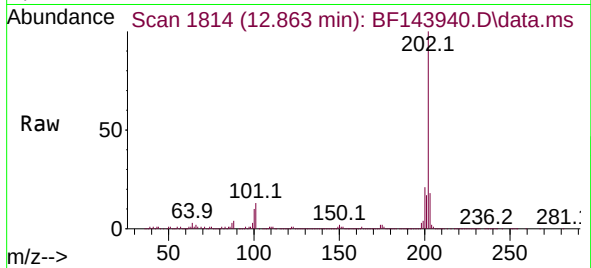




#78
 Pyrene
 Concen: 20.977 ng
 RT: 12.863 min Scan# 1814
 Delta R.T. 0.000 min
 Lab File: BF143940.D
 Acq: 13 Oct 2025 18:58

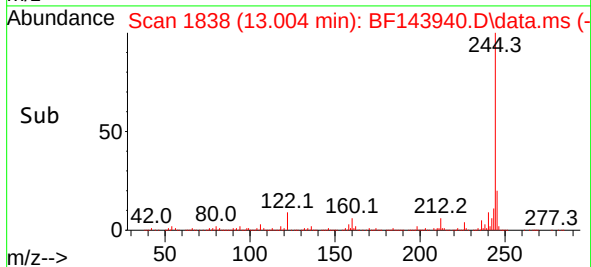
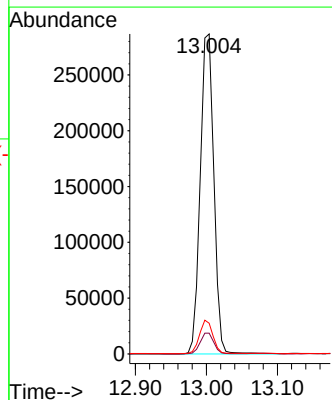
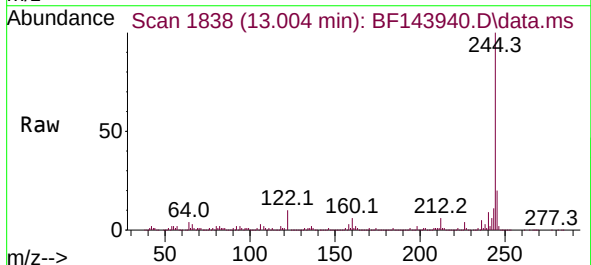
Instrument :
 BNA_F
 ClientSampleId :
 SED-05-0-2

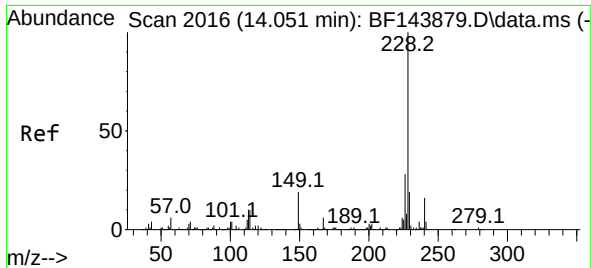
Tgt Ion:202 Resp: 409759
 Ion Ratio Lower Upper
 202 100
 200 21.4 17.0 25.6
 203 18.3 13.8 20.6



#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

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

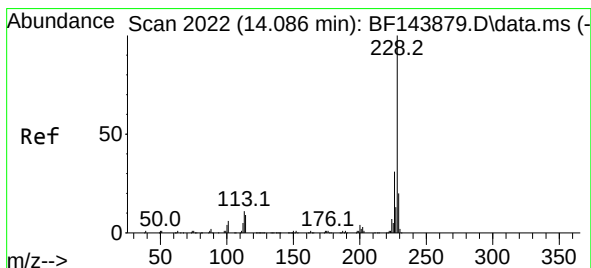
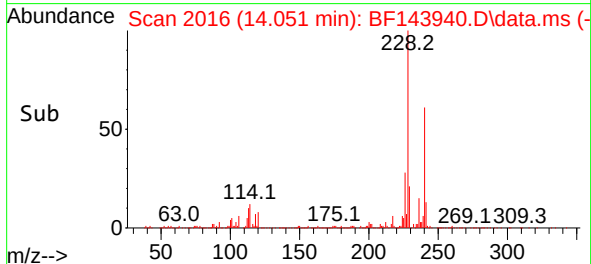
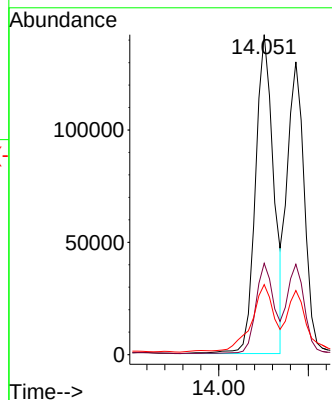
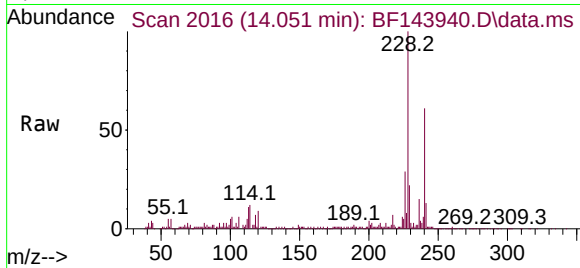




#81
Benzo(a)anthracene
Concen: 13.148 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

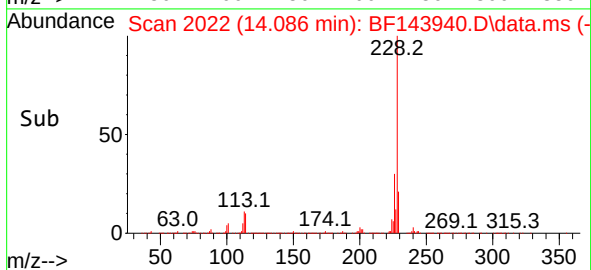
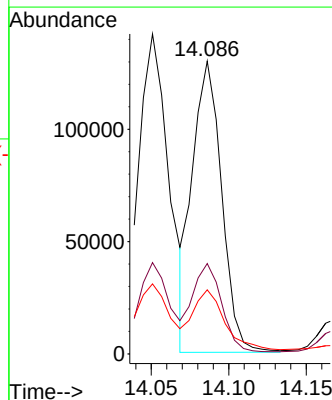
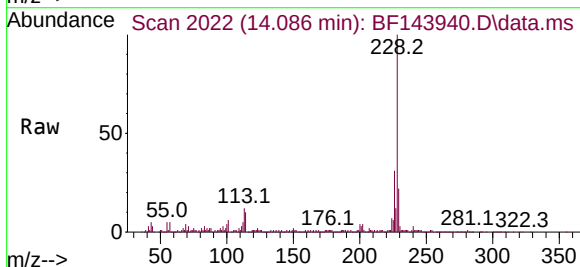
Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

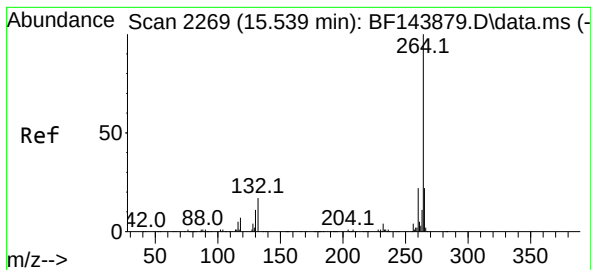
Tgt Ion:228 Resp: 201601
Ion Ratio Lower Upper
228 100
226 28.5 22.2 33.2
229 21.9 15.6 23.4



#83
Chrysene
Concen: 12.020 ng
RT: 14.086 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

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# 21

Delta R.T. 0.000 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

Instrument :

BNA_F

ClientSampleId :

SED-05-0-2

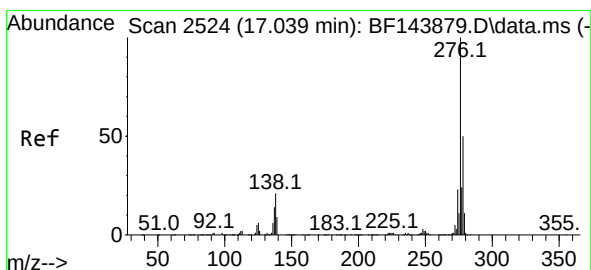
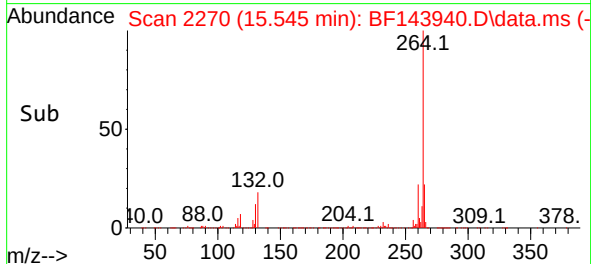
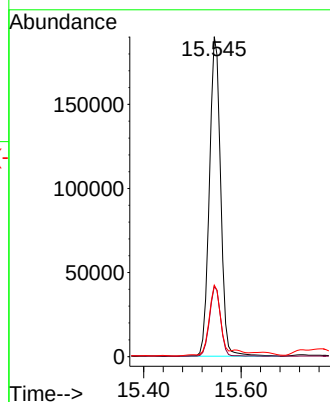
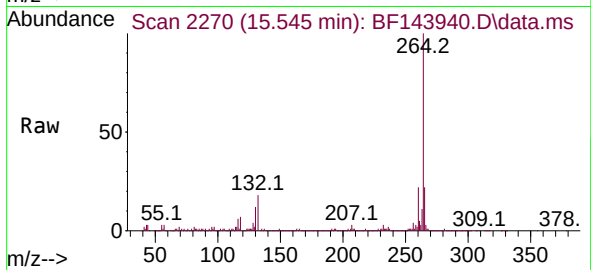
Tgt Ion:264 Resp: 306494

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# 2524

Delta R.T. -0.018 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

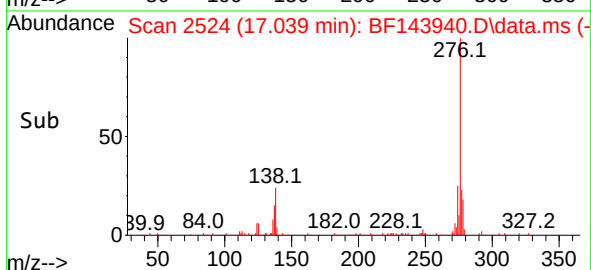
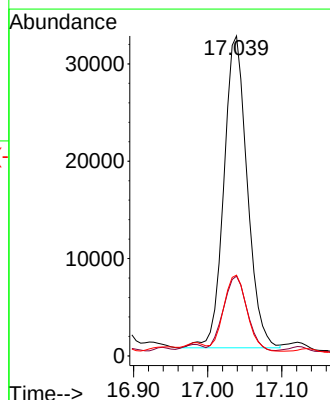
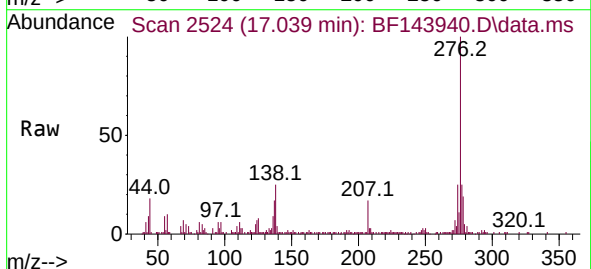
Tgt Ion:276 Resp: 70144

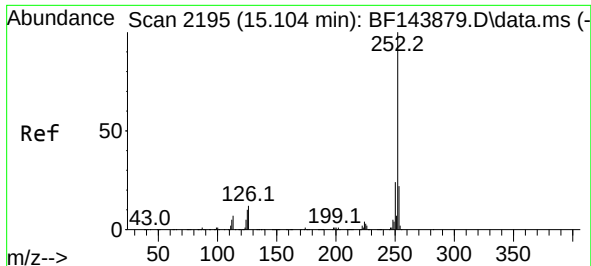
Ion Ratio Lower Upper

276 100

138 25.4 18.2 27.2

277 24.6 19.8 29.6

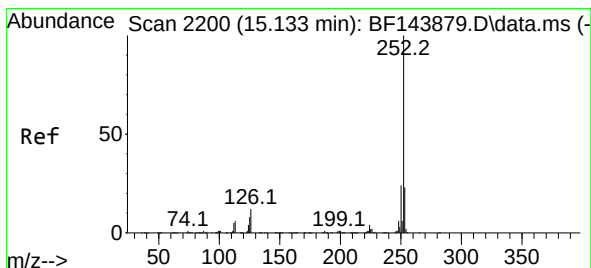
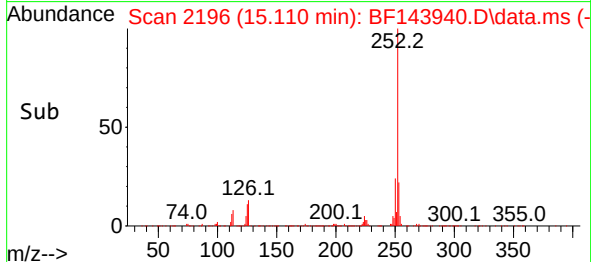
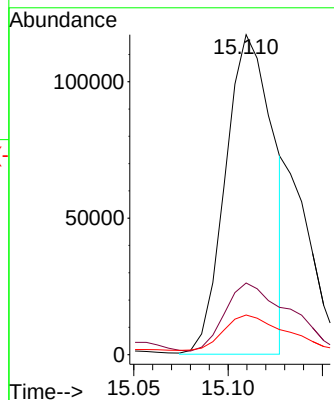
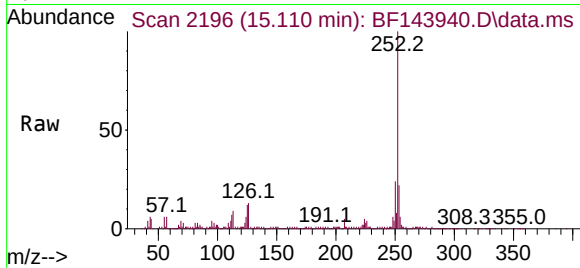




#88
Benzo(b)fluoranthene
Concen: 11.646 ng m
RT: 15.110 min Scan# 2195
Delta R.T. -0.006 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

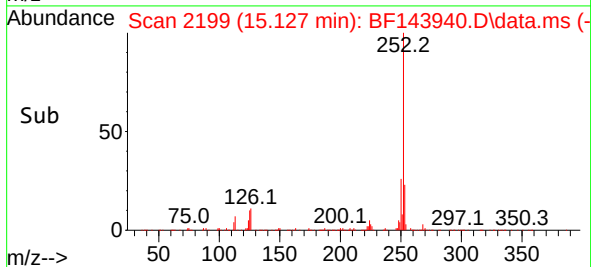
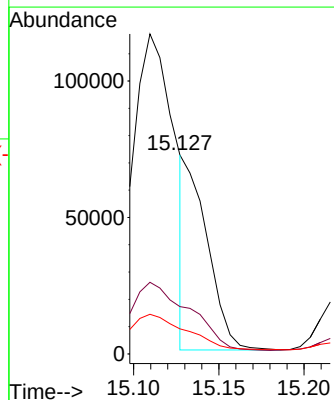
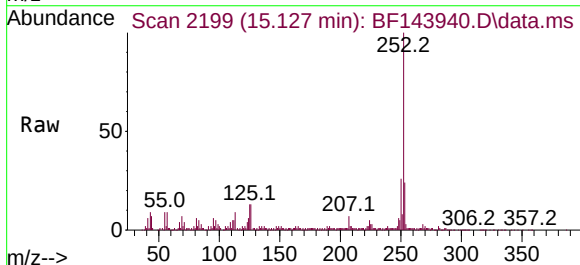
Instrument :
BNA_F
ClientSampleId :
SED-05-0-2

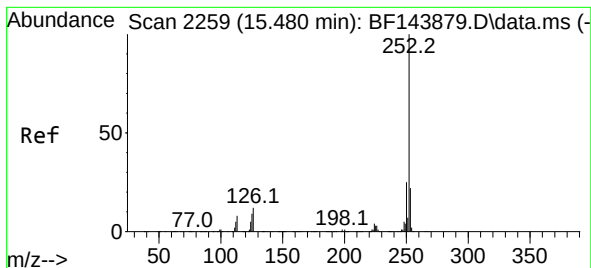
Tgt Ion:252 Resp: 205033
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.2
125 12.4 7.8 11.6#



#89
Benzo(k)fluoranthene
Concen: 3.914 ng m
RT: 15.127 min Scan# 2199
Delta R.T. -0.018 min
Lab File: BF143940.D
Acq: 13 Oct 2025 18:58

Tgt Ion:252 Resp: 63764
Ion Ratio Lower Upper
252 100
253 23.8 17.8 26.8
125 12.6 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

Instrument :

BNA_F

ClientSampleId :

SED-05-0-2

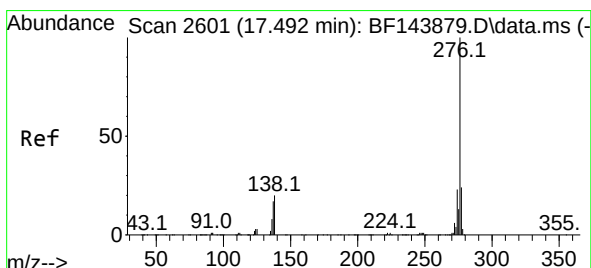
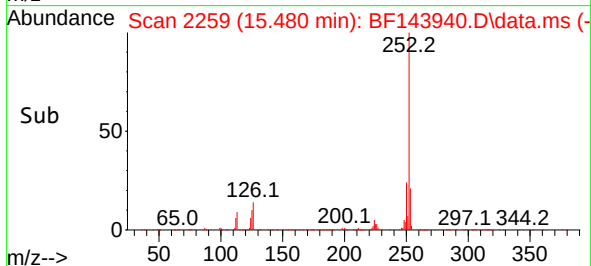
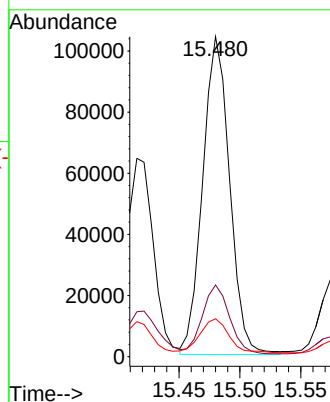
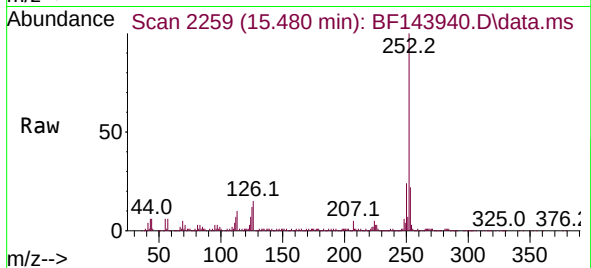
Tgt Ion:252 Resp: 160121

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# 2601

Delta R.T. -0.023 min

Lab File: BF143940.D

Acq: 13 Oct 2025 18:58

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#

