

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091225\
 Data File : BF143733.D
 Acq On : 12 Sep 2025 15:12
 Operator : RC/JU
 Sample : Q3082-05
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-31

Quant Time: Sep 12 15:33:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 09 15:20:16 2025
 Response via : Initial Calibration

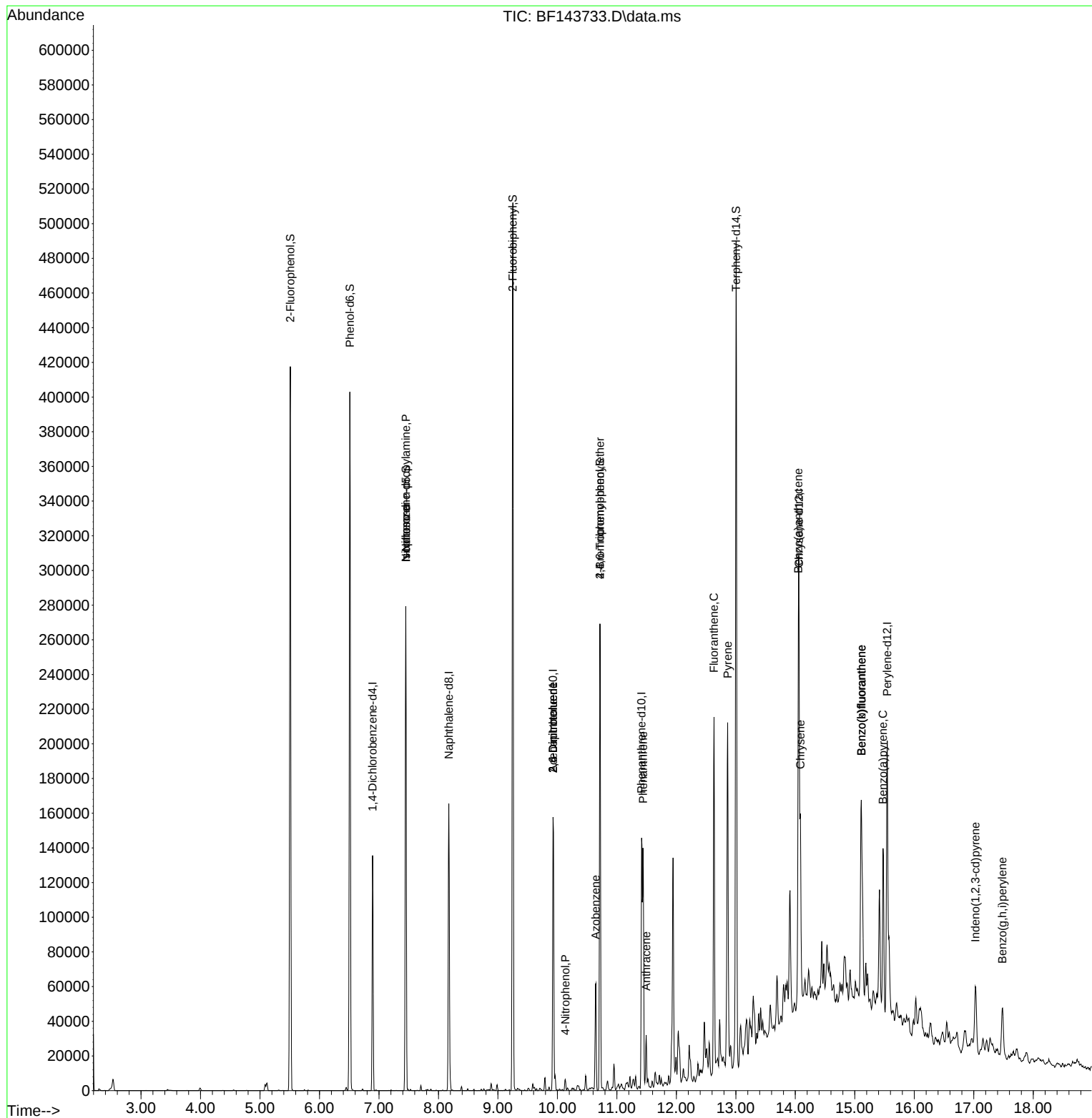
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	29872	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	104278	20.000	ng	0.00
39) Acenaphthene-d10	9.927	164	49594	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	78016	20.000	ng	0.00
76) Chrysene-d12	14.062	240	81668	20.000	ng	0.02
86) Perylene-d12	15.545	264	92226	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	165498	94.524	ng	0.01
7) Phenol-d6	6.510	99	201683	94.605	ng	0.00
23) Nitrobenzene-d5	7.451	82	122872	73.292	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	47871	95.781	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	235004	71.581	ng	0.00
79) Terphenyl-d14	13.004	244	228303	45.302	ng	0.01
Target Compounds						
19) n-Nitroso-di-n-propyla...	7.451	70	15720	12.006	ng	# 78
25) Isophorone	7.451	82	122781	38.193	ng	# 64
51) 2,6-Dinitrotoluene	9.927	165	6677	10.823	ng	# 27
56) 4-Nitrophenol	10.133	139	1101	2.084	ng	# 9
57) 2,4-Dinitrotoluene	9.927	165	6677	7.952	ng	# 27
63) Azobenzene	10.645	77	15252	5.695	ng	# 1
67) 4-Bromophenyl-phenylether	10.716	248	3283	3.490	ng	# 1
71) Phenanthrene	11.439	178	73830	17.176	ng	99
72) Anthracene	11.492	178	18215	4.214	ng	96
75) Fluoranthene	12.633	202	112239	28.443	ng	99
78) Pyrene	12.863	202	112436	17.219	ng	98
81) Benzo(a)anthracene	14.051	228	70418	13.403	ng	95
83) Chrysene	14.086	228	55375	11.508	ng	96
87) Indeno(1,2,3-cd)pyrene	17.027	276	26941	4.280	ng	# 91
88) Benzo(b)fluoranthene	15.109	252	97502	17.760	ng	# 91
89) Benzo(k)fluoranthene	15.109	252	97502	19.678	ng	# 92
90) Benzo(a)pyrene	15.474	252	57214	11.862	ng	96
92) Benzo(g,h,i)perylene	17.480	276	25808	5.284	ng	95

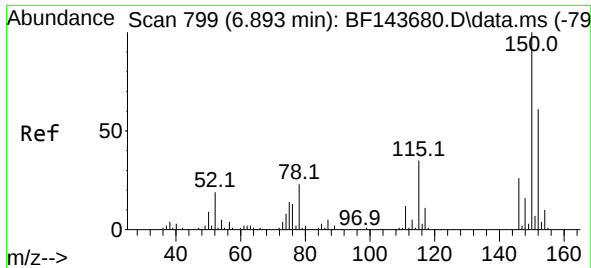
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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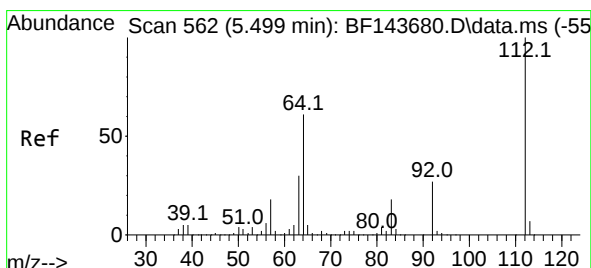
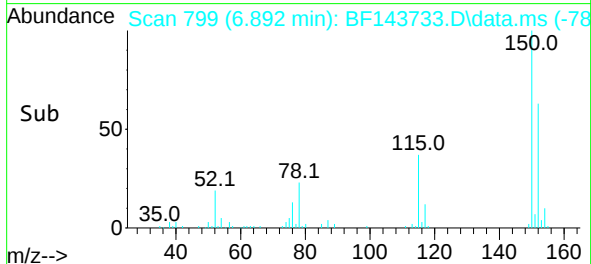
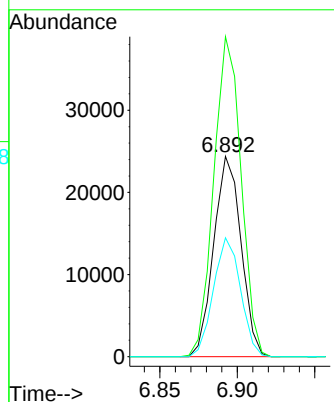
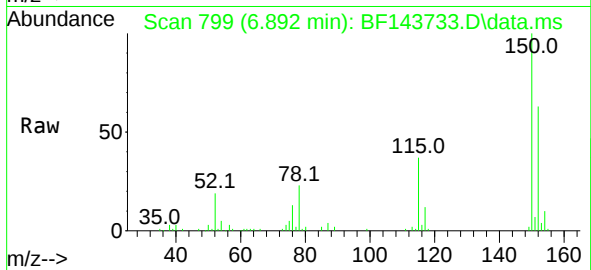




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.892 min Scan# 799
 Delta R.T. -0.001 min
 Lab File: BF143733.D
 Acq: 12 Sep 2025 15:12

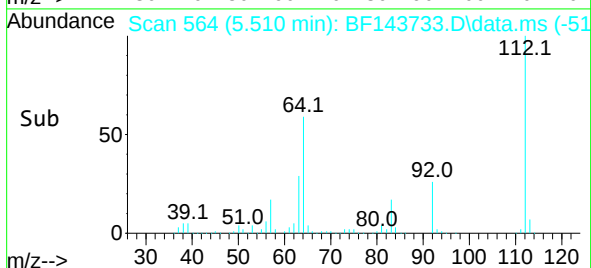
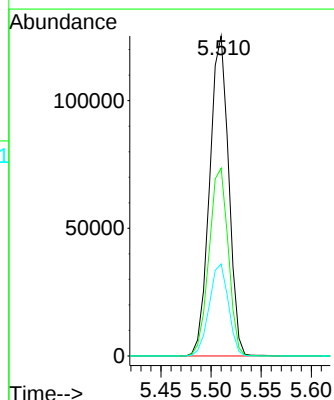
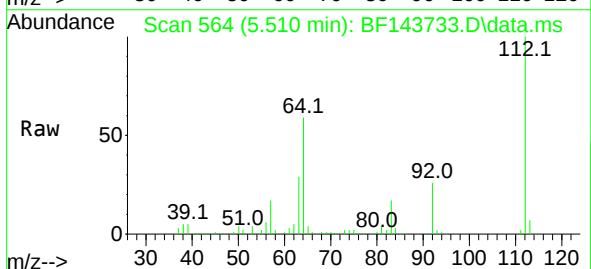
Instrument :
 BNA_F
 ClientSampleId :
 WC-31

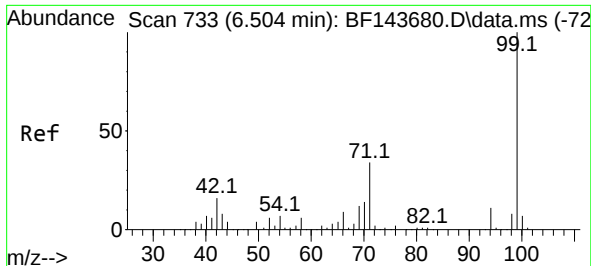
Tgt Ion:152 Resp: 29872
 Ion Ratio Lower Upper
 152 100
 150 159.8 130.7 196.1
 115 59.3 45.9 68.9



#5
 2-Fluorophenol
 Concen: 94.524 ng
 RT: 5.510 min Scan# 564
 Delta R.T. 0.011 min
 Lab File: BF143733.D
 Acq: 12 Sep 2025 15:12

Tgt Ion:112 Resp: 165498
 Ion Ratio Lower Upper
 112 100
 64 58.7 49.0 73.4
 63 28.8 24.3 36.5

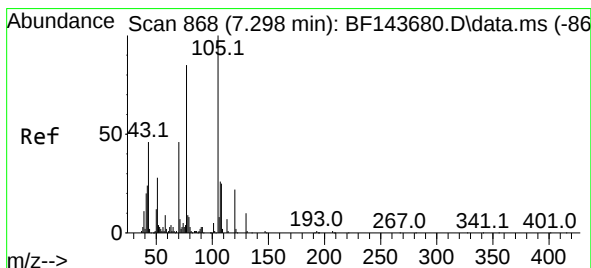
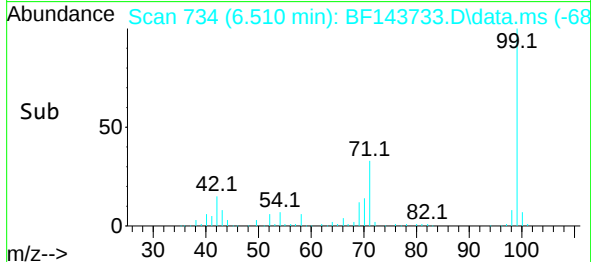
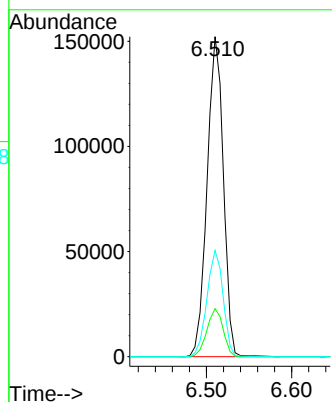
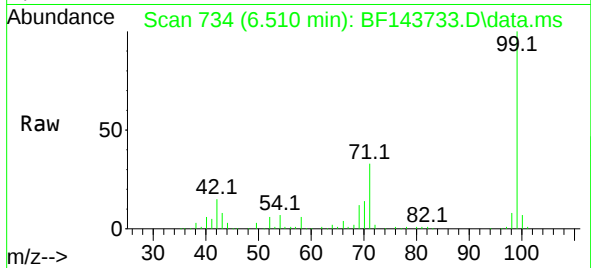




#7
Phenol-d6
Concen: 94.605 ng
RT: 6.510 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

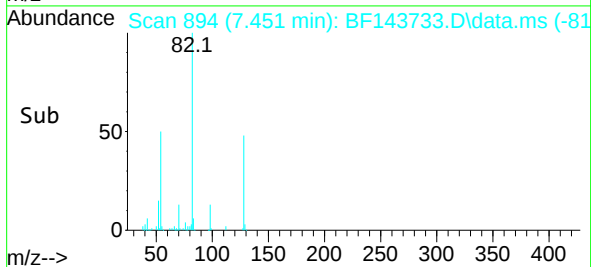
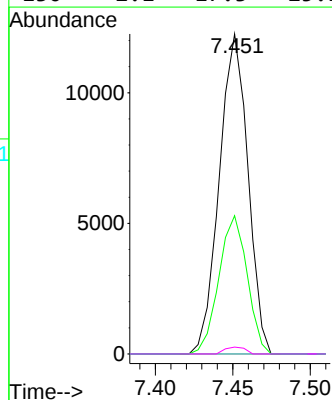
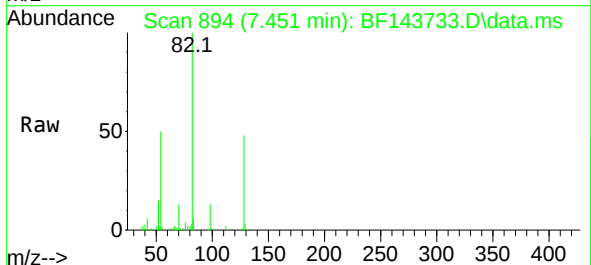
Instrument :
BNA_F
ClientSampleId :
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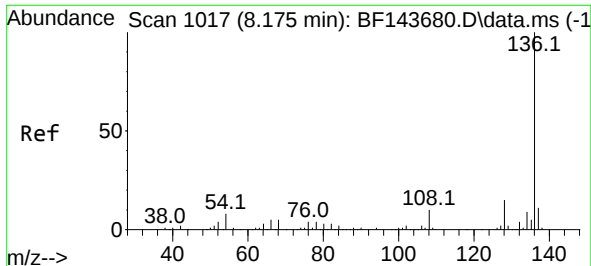
Tgt Ion: 99 Resp: 201683
Ion Ratio Lower Upper
99 100
42 15.0 13.0 19.4
71 33.2 27.4 41.2



#19
n-Nitroso-di-n-propylamine
Concen: 12.006 ng
RT: 7.451 min Scan# 894
Delta R.T. 0.153 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

Tgt Ion: 70 Resp: 15720
Ion Ratio Lower Upper
70 100
42 43.2 41.4 62.2
101 0.0 8.1 12.1#
130 2.1 17.3 25.9#

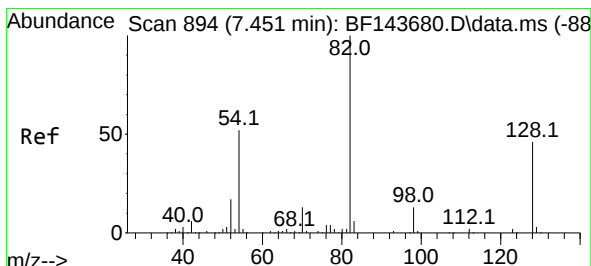
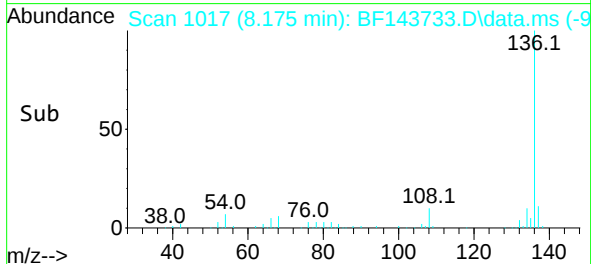
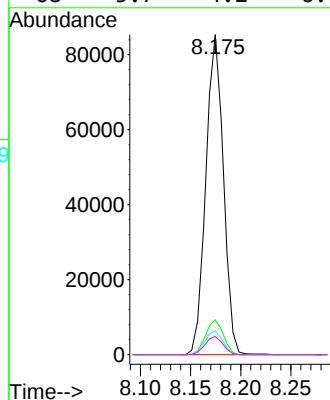
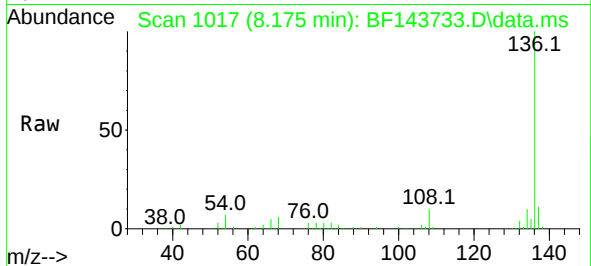




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1017
Delta R.T. -0.000 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

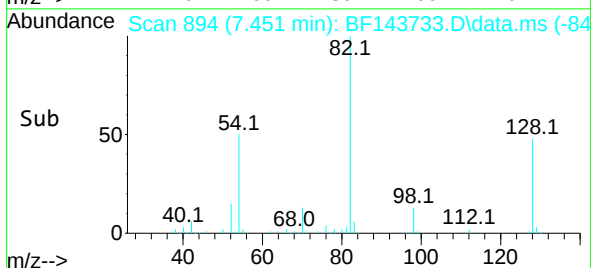
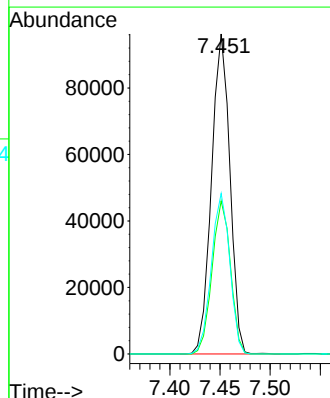
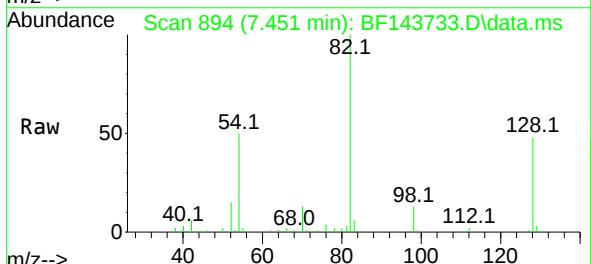
Instrument :
BNA_F
ClientSampleId :
WC-31

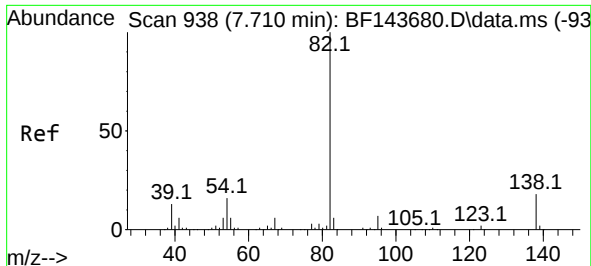
Tgt Ion:	136	Resp:	104278
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	7.4	6.2	9.2
68	5.7	4.2	6.4



#23
Nitrobenzene-d5
Concen: 73.292 ng
RT: 7.451 min Scan# 894
Delta R.T. -0.000 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

Tgt Ion:	82	Resp:	122872
Ion	Ratio	Lower	Upper
82	100		
128	47.8	37.0	55.4
54	50.2	41.8	62.8

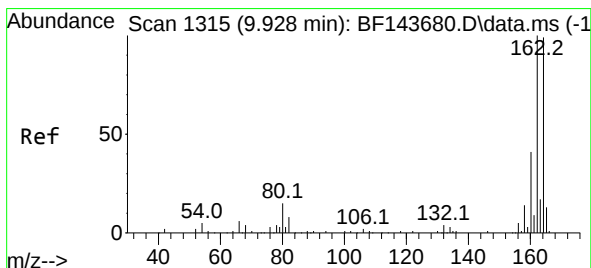
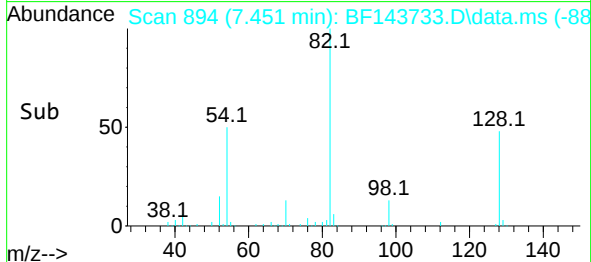
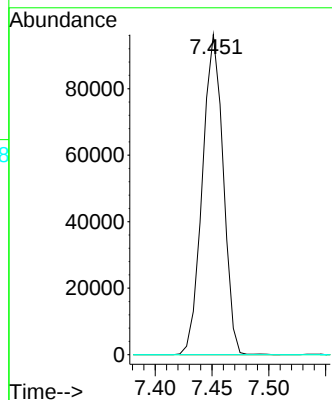
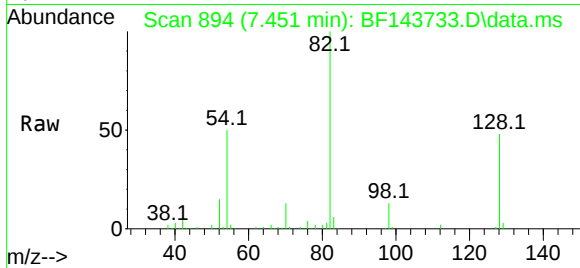




#25
Isophorone
Concen: 38.193 ng
RT: 7.451 min Scan# 894
Delta R.T. -0.259 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

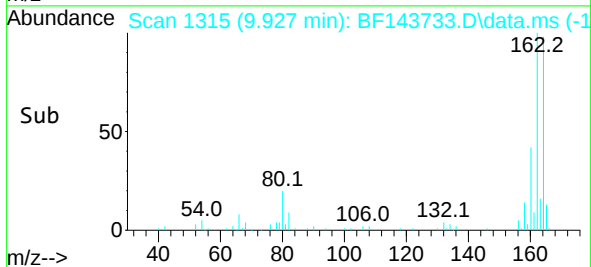
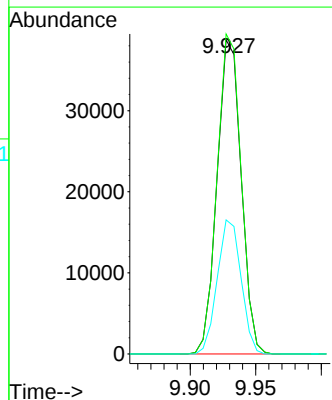
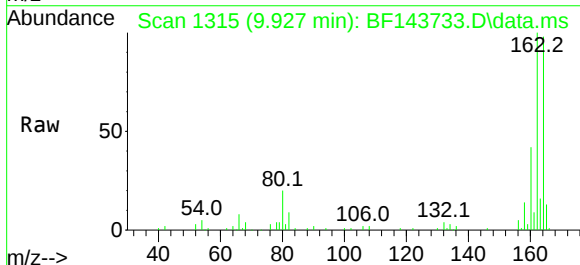
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ClientSampleId :
WC-31

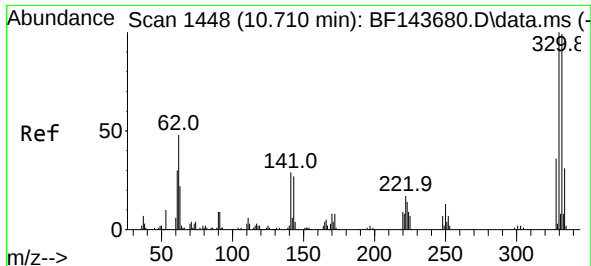
Tgt Ion: 82 Resp: 122781
Ion Ratio Lower Upper
82 100
95 0.0 5.7 8.5#
138 0.0 14.8 22.2#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1315
Delta R.T. -0.000 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

Tgt Ion: 164 Resp: 49594
Ion Ratio Lower Upper
164 100
162 101.9 80.6 121.0
160 42.7 33.0 49.4





#42

2,4,6-Tribromophenol

Concen: 95.781 ng

RT: 10.716 min Scan# 1448

Delta R.T. 0.006 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

Instrument :

BNA_F

ClientSampleId :

WC-31

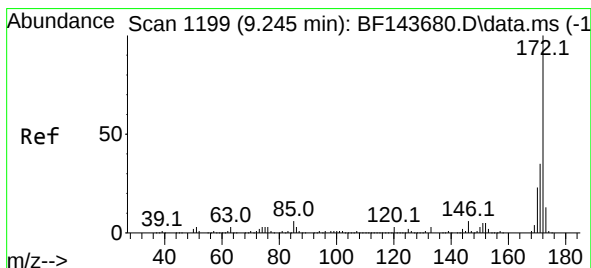
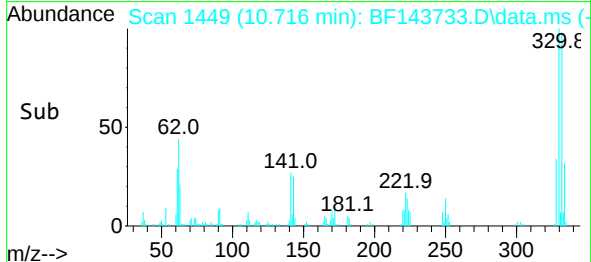
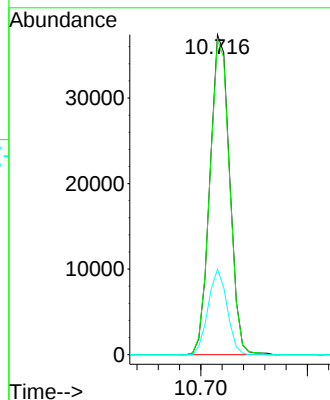
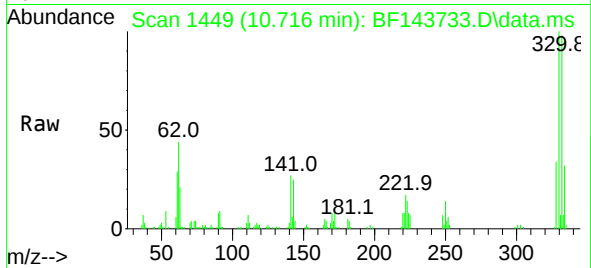
Tgt Ion:330 Resp: 47871

Ion Ratio Lower Upper

330 100

332 98.8 79.2 118.8

141 25.7 22.2 33.4



#45

2-Fluorobiphenyl

Concen: 71.581 ng

RT: 9.251 min Scan# 1200

Delta R.T. 0.006 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

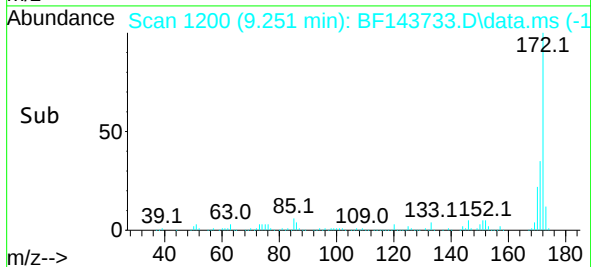
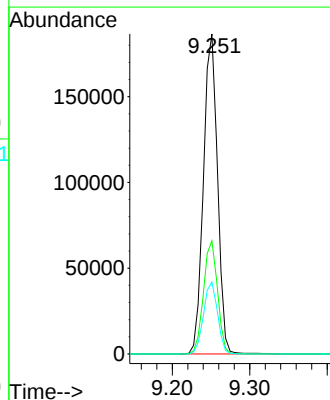
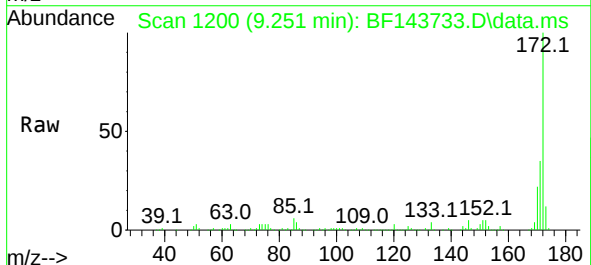
Tgt Ion:172 Resp: 235004

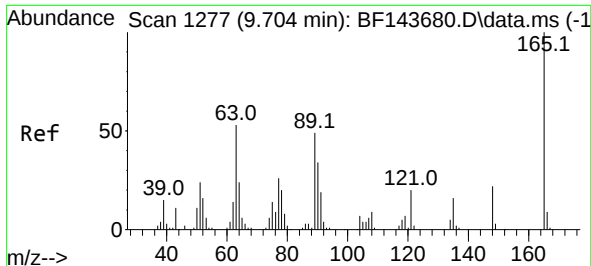
Ion Ratio Lower Upper

172 100

171 35.4 27.9 41.9

170 22.5 18.6 27.8

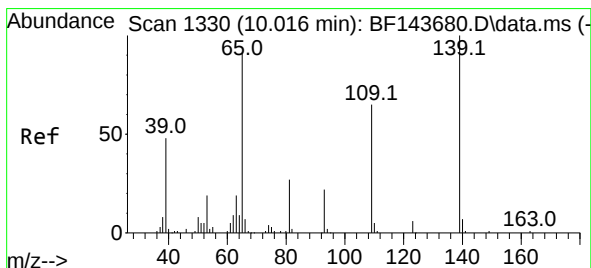
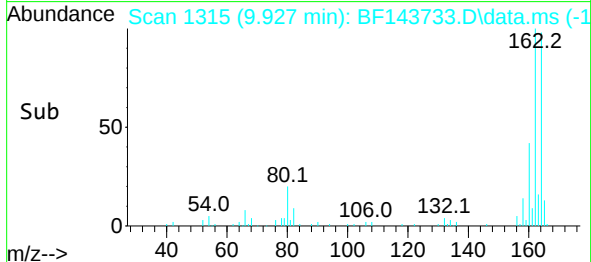
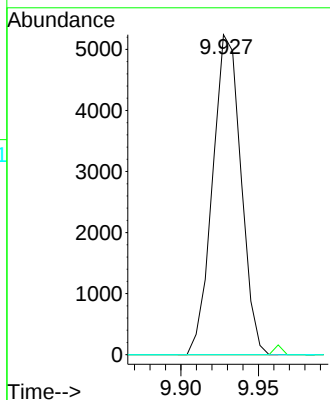
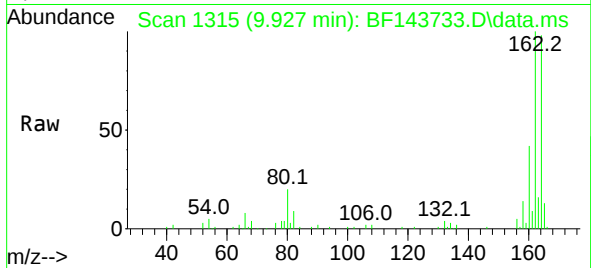




#51
2,6-Dinitrotoluene
Concen: 10.823 ng
RT: 9.927 min Scan# 11
Delta R.T. 0.223 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

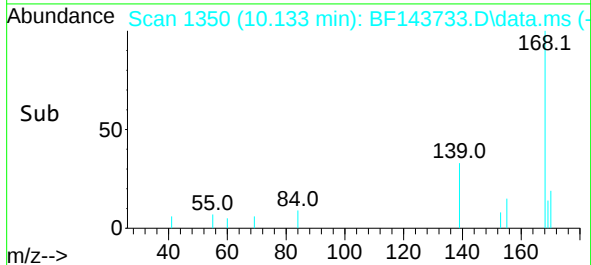
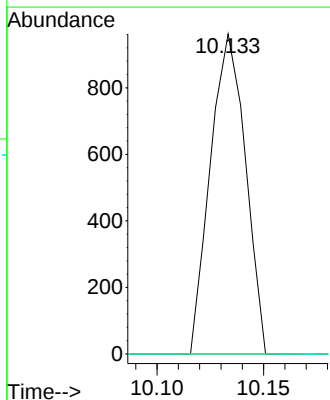
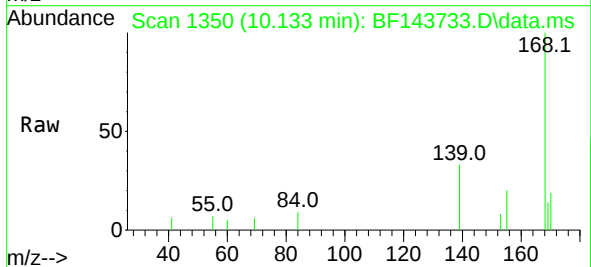
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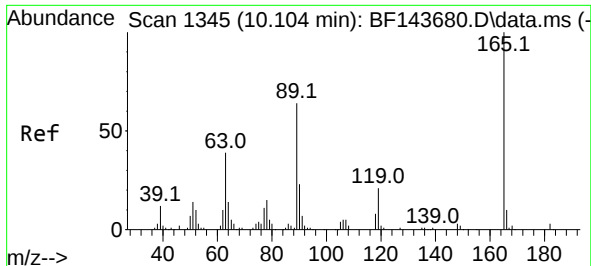
Tgt Ion:165 Resp: 6677
Ion Ratio Lower Upper
165 100
63 0.0 42.2 63.4#
89 0.0 39.3 58.9#



#56
4-Nitrophenol
Concen: 2.084 ng
RT: 10.133 min Scan# 1350
Delta R.T. 0.117 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

Tgt Ion:139 Resp: 1101
Ion Ratio Lower Upper
139 100
109 0.0 45.2 85.2#
65 0.0 72.1 112.1#

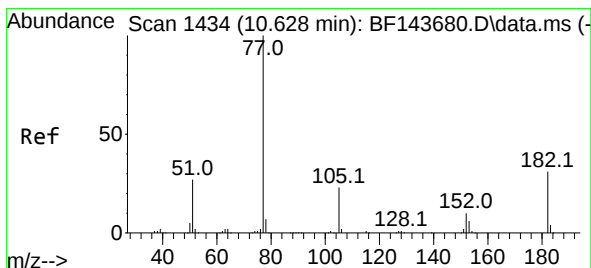
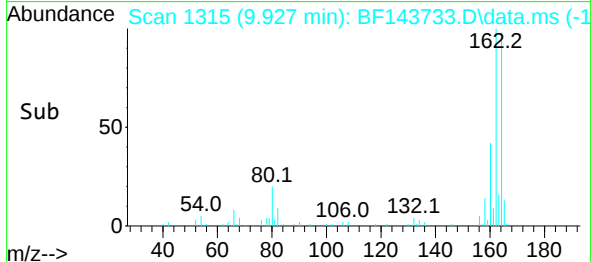
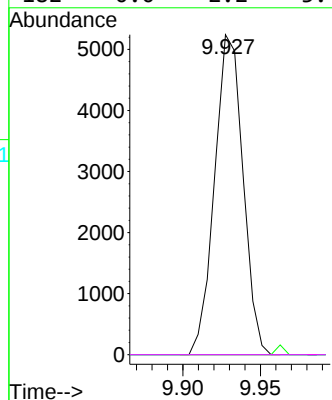
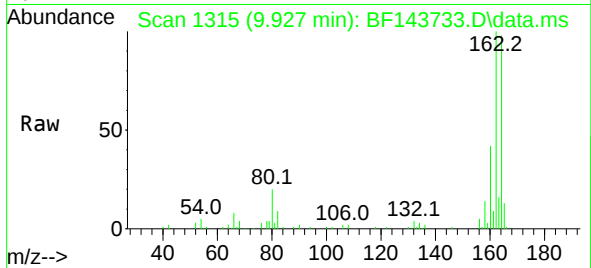




#57
2,4-Dinitrotoluene
Concen: 7.952 ng
RT: 9.927 min Scan# 11
Delta R.T. -0.177 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

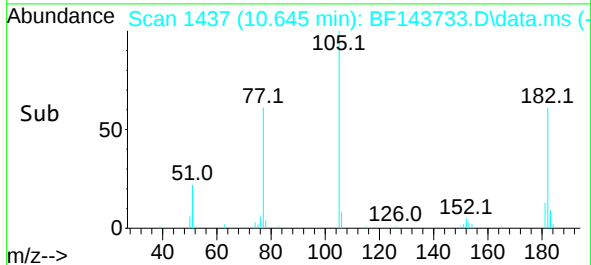
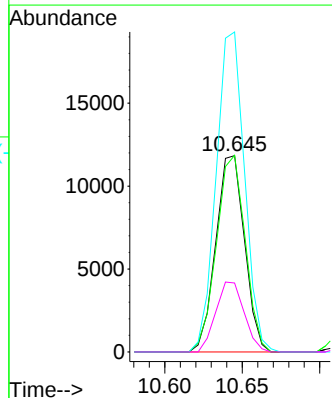
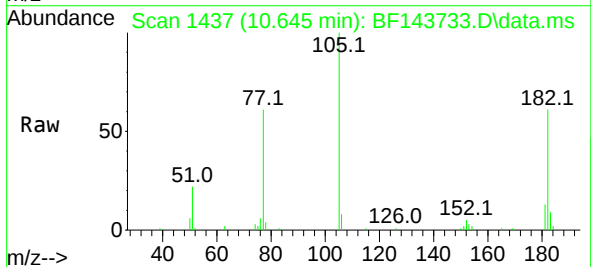
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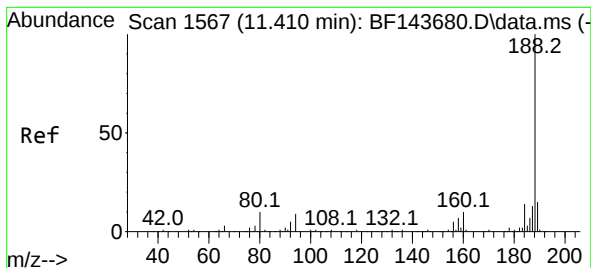
Tgt Ion:165 Resp: 6677
Ion Ratio Lower Upper
165 100
63 0.0 31.5 47.3#
89 0.0 51.3 76.9#
182 0.0 2.2 3.4#



#63
Azobenzene
Concen: 5.695 ng
RT: 10.645 min Scan# 1437
Delta R.T. 0.017 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

Tgt Ion: 77 Resp: 15252
Ion Ratio Lower Upper
77 100
182 100.2 10.8 50.8#
105 163.1 3.2 43.2#
51 35.2 7.7 47.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.416 min Scan# 1

Delta R.T. 0.006 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

Instrument :

BNA_F

ClientSampleId :

WC-31

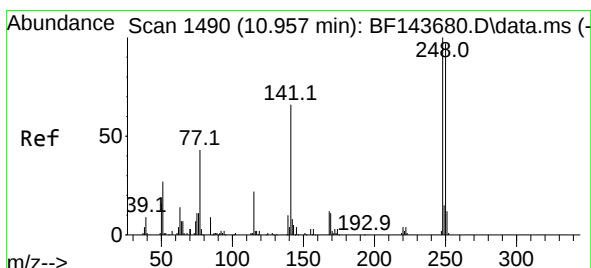
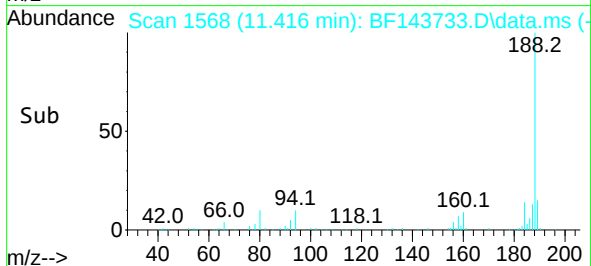
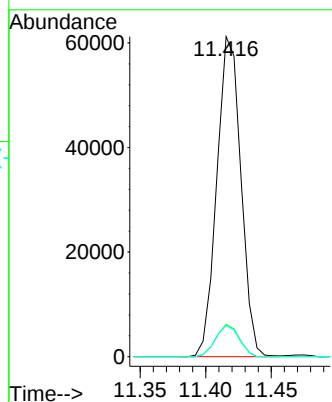
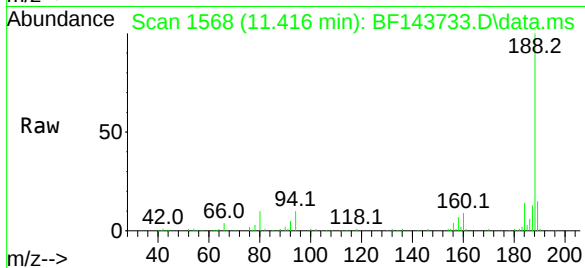
Tgt Ion:188 Resp: 78016

Ion Ratio Lower Upper

188 100

94 10.1 7.4 11.0

80 9.8 7.7 11.5



#67

4-Bromophenyl-phenylether

Concen: 3.490 ng

RT: 10.716 min Scan# 1449

Delta R.T. -0.241 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

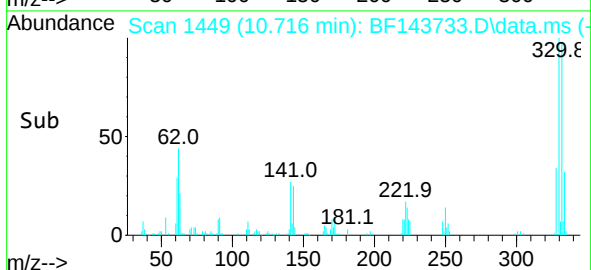
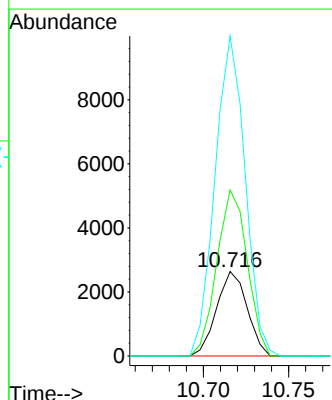
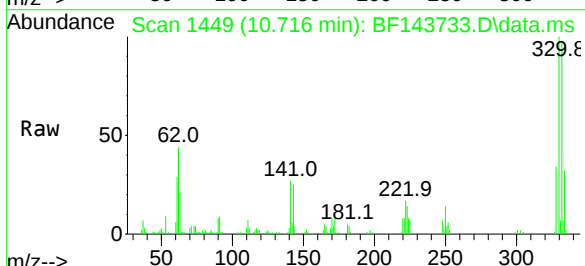
Tgt Ion:248 Resp: 3283

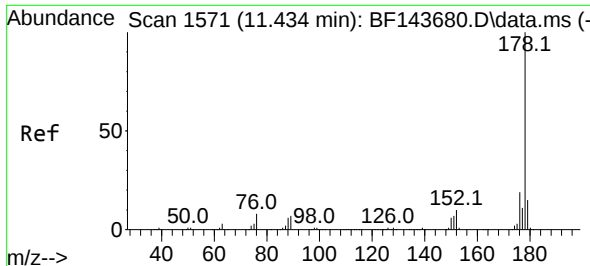
Ion Ratio Lower Upper

248 100

250 196.4 77.5 116.3#

141 378.6 52.6 79.0#

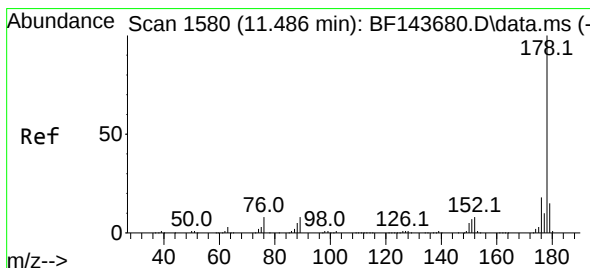
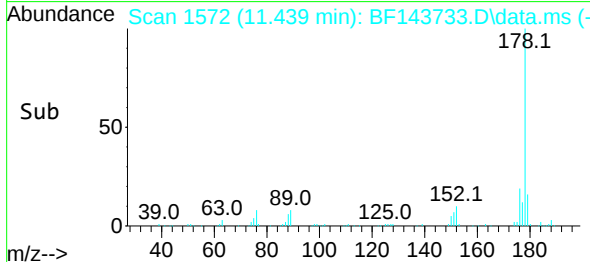
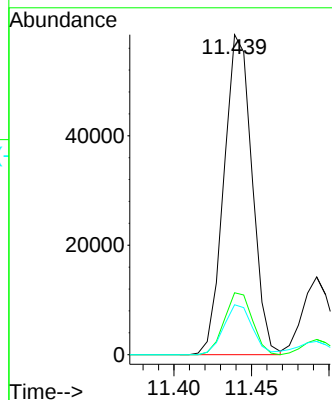
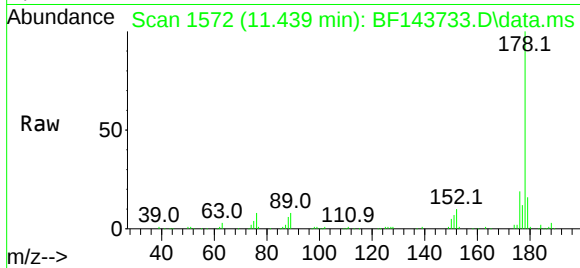




#71
Phenanthrene
Concen: 17.176 ng
RT: 11.439 min Scan# 1572
Delta R.T. 0.006 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

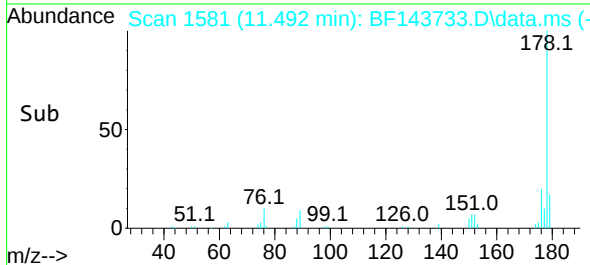
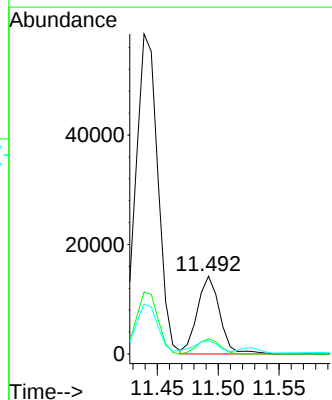
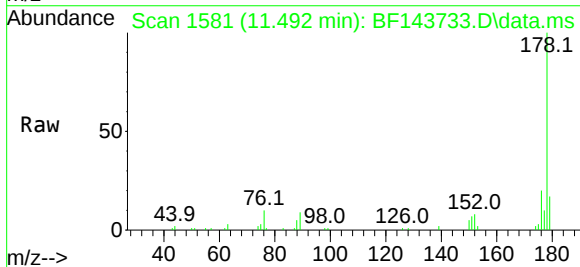
Instrument :
BNA_F
ClientSampleId :
WC-31

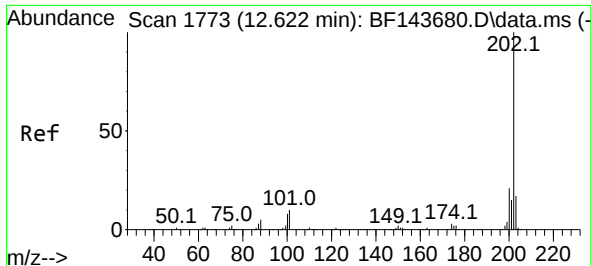
Tgt Ion:178 Resp: 73830
Ion Ratio Lower Upper
178 100
176 19.3 14.8 22.2
179 15.6 12.2 18.2



#72
Anthracene
Concen: 4.214 ng
RT: 11.492 min Scan# 1581
Delta R.T. 0.006 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

Tgt Ion:178 Resp: 18215
Ion Ratio Lower Upper
178 100
176 19.6 14.5 21.7
179 17.1 12.2 18.2

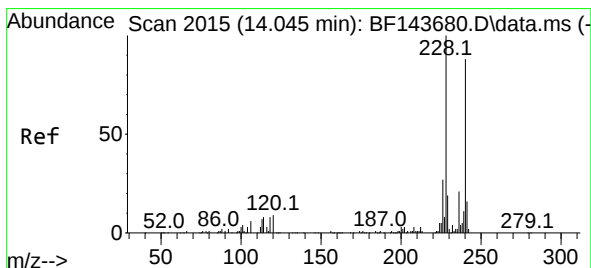
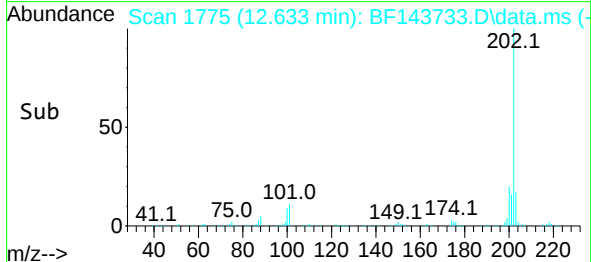
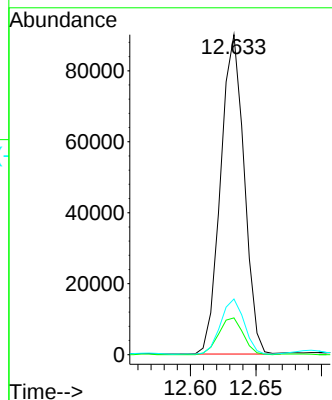
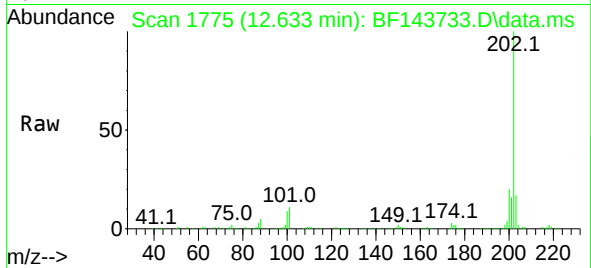




#75
Fluoranthene
Concen: 28.443 ng
RT: 12.633 min Scan# 11
Delta R.T. 0.011 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

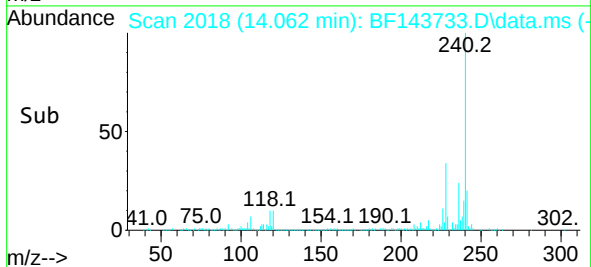
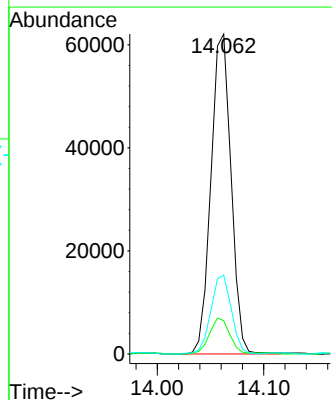
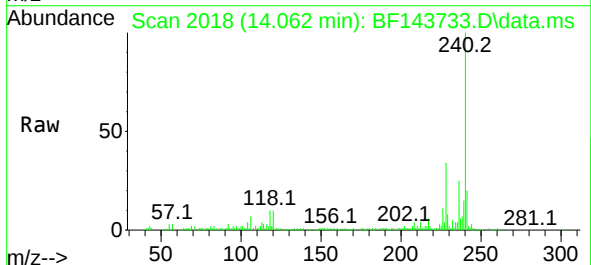
Instrument :
BNA_F
ClientSampleId :
WC-31

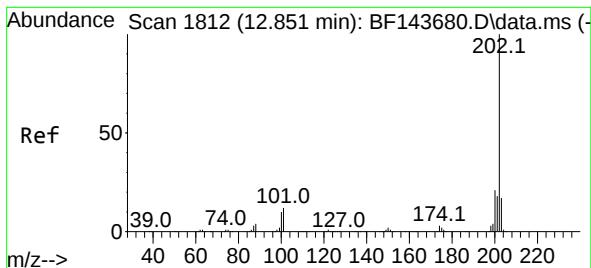
Tgt Ion:202 Resp: 112239
Ion Ratio Lower Upper
202 100
101 11.5 0.0 30.5
203 17.4 0.0 37.1



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.062 min Scan# 2018
Delta R.T. 0.017 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

Tgt Ion:240 Resp: 81668
Ion Ratio Lower Upper
240 100
120 10.4 8.4 12.6
236 24.6 18.6 28.0





#78

Pyrene

Concen: 17.219 ng

RT: 12.863 min Scan# 1814

Delta R.T. 0.011 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

Instrument :

BNA_F

ClientSampleId :

WC-31

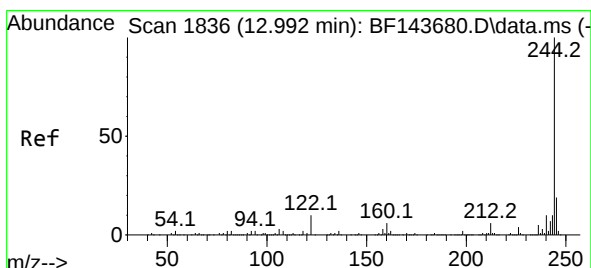
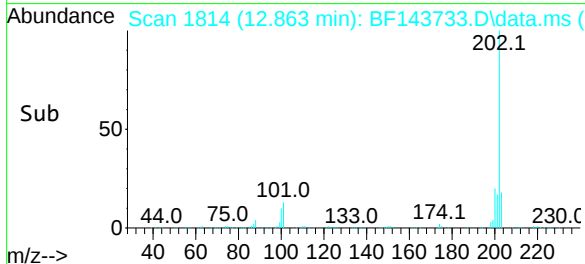
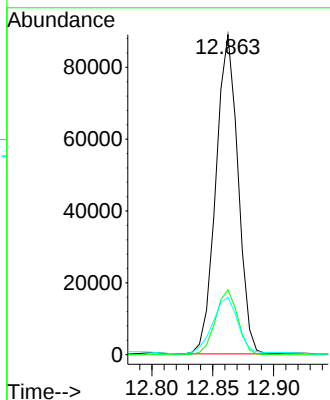
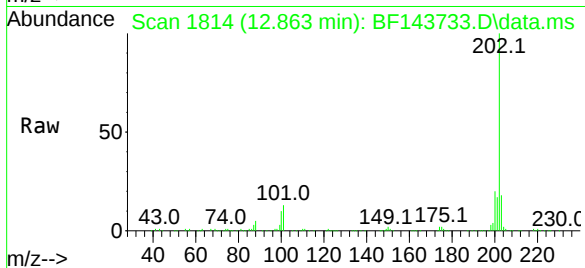
Tgt Ion:202 Resp: 112436

Ion Ratio Lower Upper

202 100

200 20.3 16.6 24.8

203 17.9 13.5 20.3



#79

Terphenyl-d14

Concen: 45.302 ng

RT: 13.004 min Scan# 1838

Delta R.T. 0.011 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

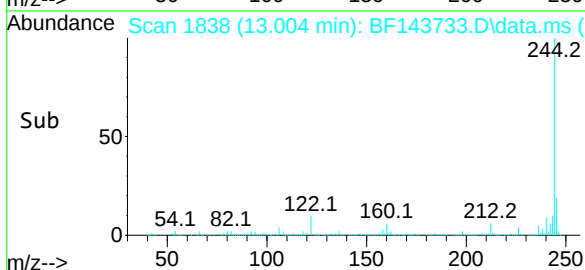
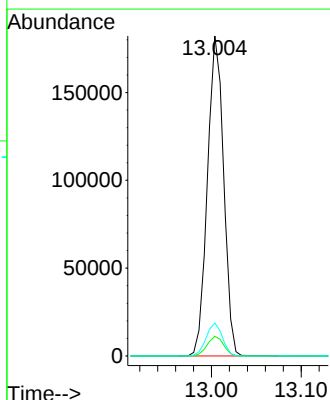
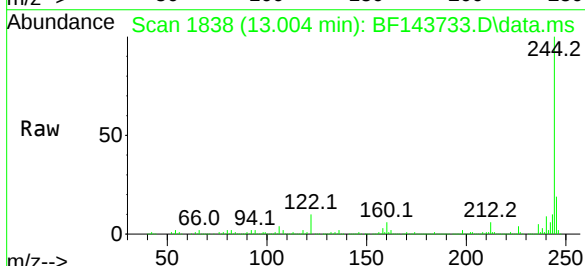
Tgt Ion:244 Resp: 228303

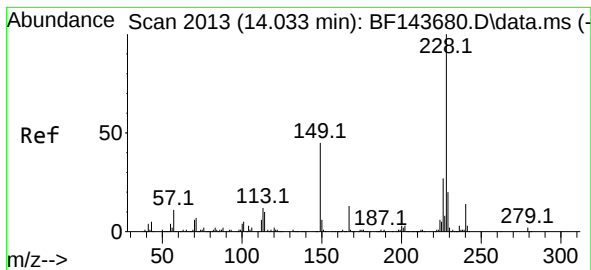
Ion Ratio Lower Upper

244 100

212 6.2 5.0 7.6

122 10.3 7.9 11.9





#81

Benzo(a)anthracene

Concen: 13.403 ng

RT: 14.051 min Scan# 20

Delta R.T. 0.017 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

Instrument :

BNA_F

ClientSampleId :

WC-31

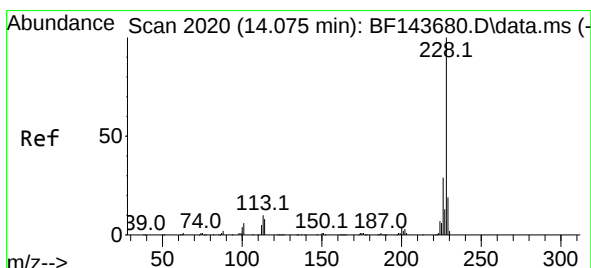
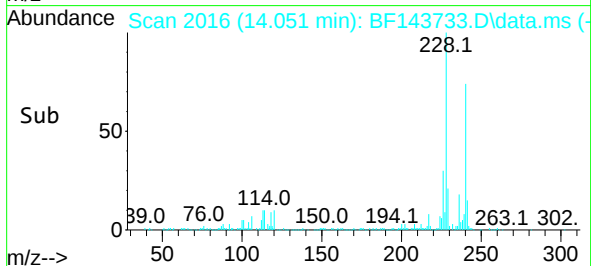
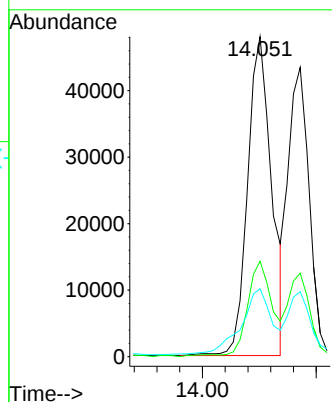
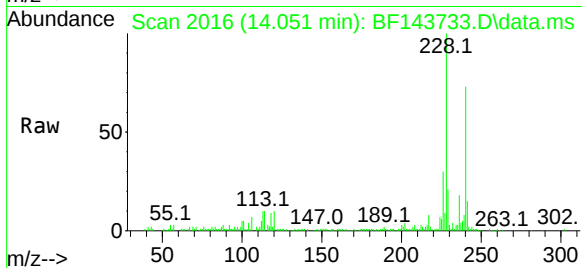
Tgt Ion:228 Resp: 70418

Ion Ratio Lower Upper

228 100

226 29.9 21.6 32.4

229 21.3 15.7 23.5



#83

Chrysene

Concen: 11.508 ng

RT: 14.086 min Scan# 2022

Delta R.T. 0.011 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

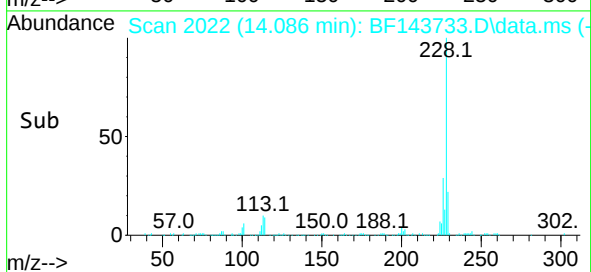
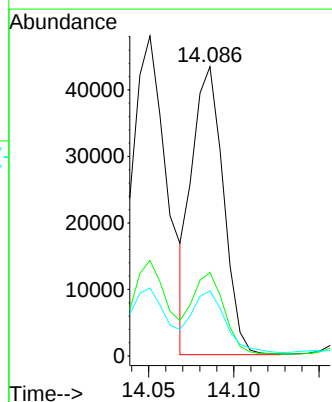
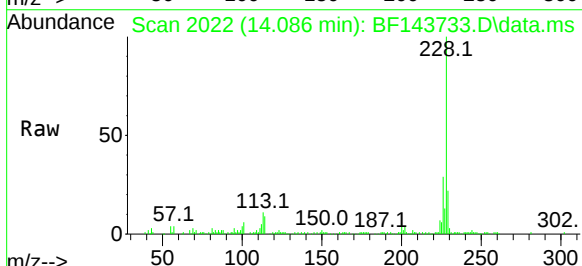
Tgt Ion:228 Resp: 55375

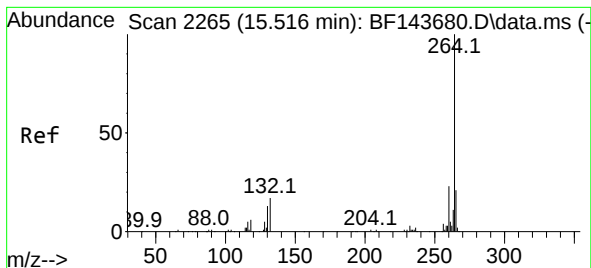
Ion Ratio Lower Upper

228 100

226 28.9 22.7 34.1

229 22.5 15.1 22.7





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 21

Delta R.T. 0.029 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

Instrument :

BNA_F

ClientSampleId :

WC-31

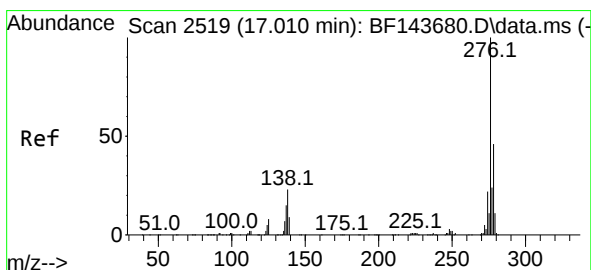
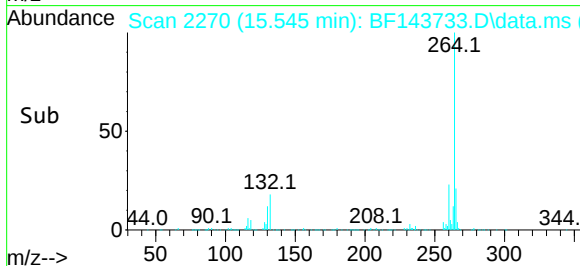
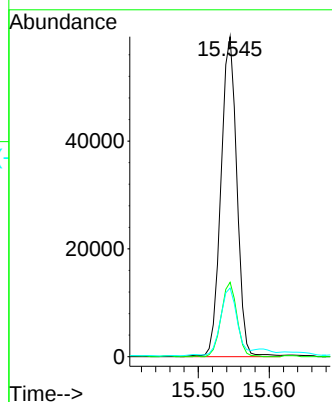
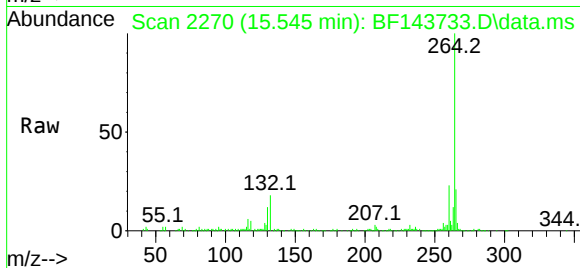
Tgt Ion:264 Resp: 92226

Ion Ratio Lower Upper

264 100

260 23.2 18.4 27.6

265 21.5 17.1 25.7



#87

Indeno(1,2,3-cd)pyrene

Concen: 4.280 ng

RT: 17.027 min Scan# 2522

Delta R.T. 0.017 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

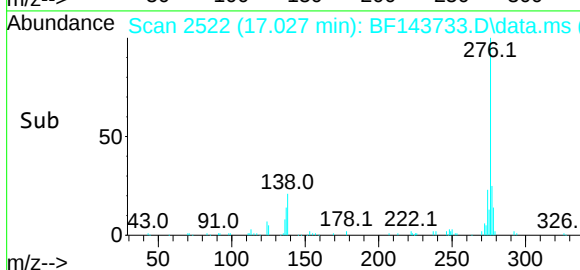
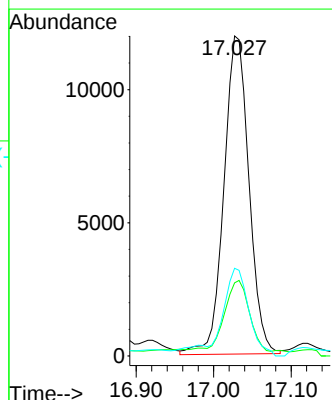
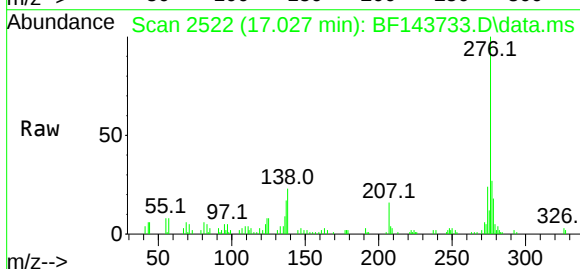
Tgt Ion:276 Resp: 26941

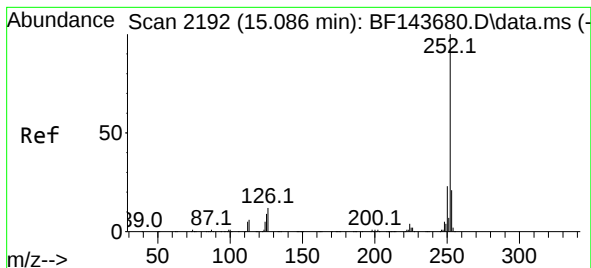
Ion Ratio Lower Upper

276 100

138 21.3 19.7 29.5

277 30.6 20.2 30.2#





#88

Benzo(b)fluoranthene

Concen: 17.760 ng

RT: 15.109 min Scan# 2196

Delta R.T. 0.023 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

Instrument :

BNA_F

ClientSampleId :

WC-31

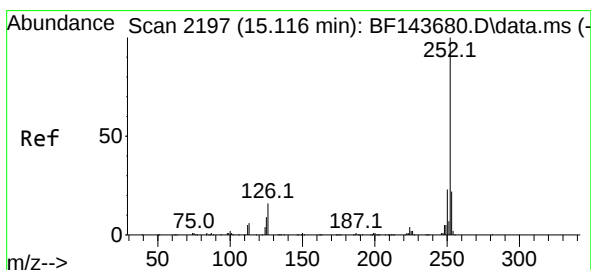
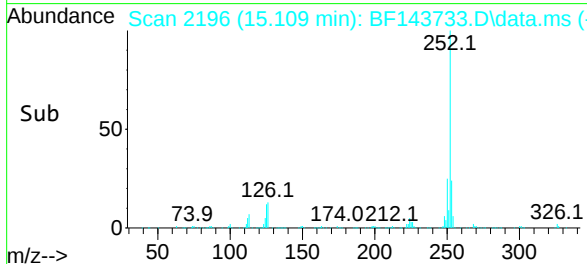
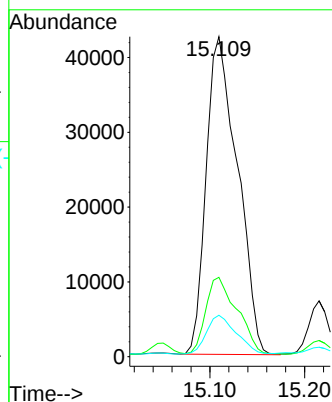
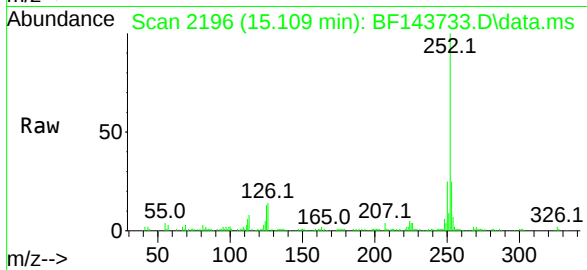
Tgt Ion:252 Resp: 97502

Ion Ratio Lower Upper

252 100

253 24.8 17.0 25.4

125 13.0 7.4 11.0#



#89

Benzo(k)fluoranthene

Concen: 19.678 ng

RT: 15.109 min Scan# 2196

Delta R.T. -0.006 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

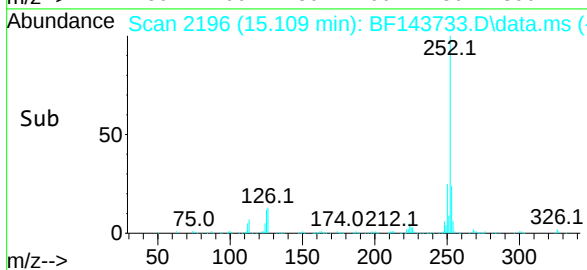
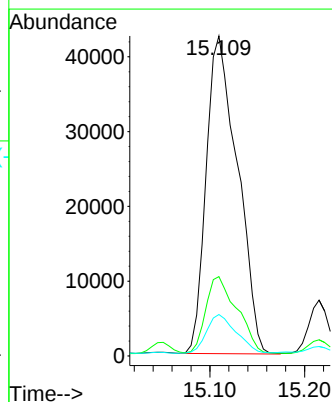
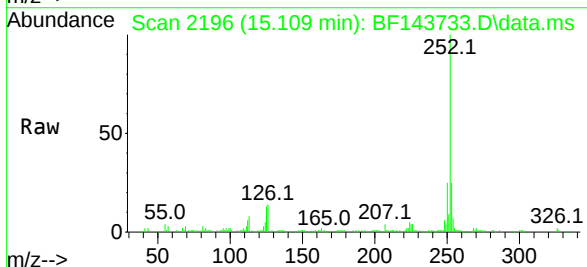
Tgt Ion:252 Resp: 97502

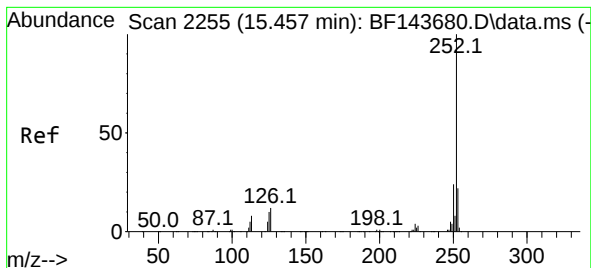
Ion Ratio Lower Upper

252 100

253 24.8 17.3 25.9

125 13.0 7.3 10.9#





#90

Benzo(a)pyrene

Concen: 11.862 ng

RT: 15.474 min Scan# 21

Delta R.T. 0.017 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

Instrument :

BNA_F

ClientSampleId :

WC-31

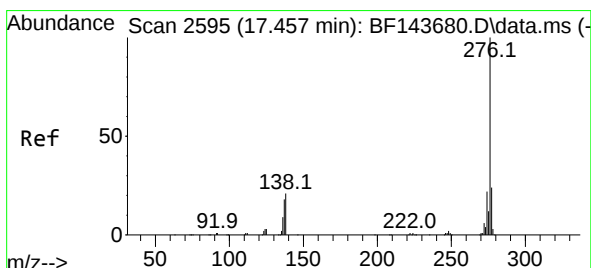
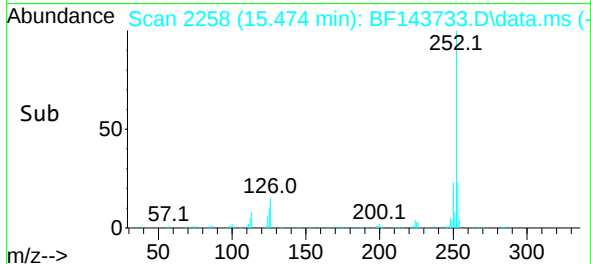
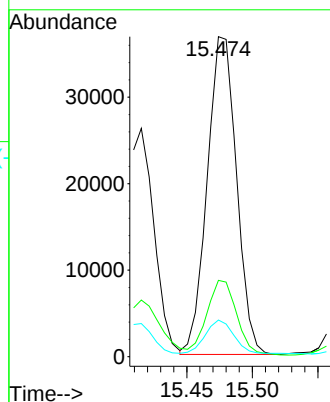
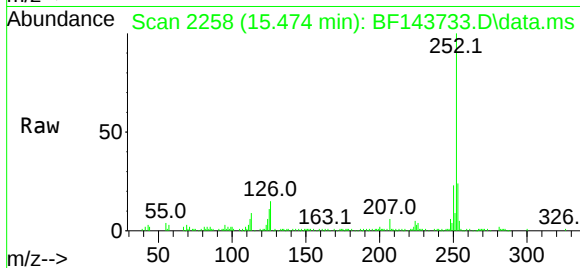
Tgt Ion:252 Resp: 57214

Ion Ratio Lower Upper

252 100

253 23.8 17.4 26.0

125 11.4 8.2 12.4



#92

Benzo(g,h,i)perylene

Concen: 5.284 ng

RT: 17.480 min Scan# 2599

Delta R.T. 0.023 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

Tgt Ion:276 Resp: 25808

Ion Ratio Lower Upper

276 100

277 26.4 19.2 28.8

138 23.9 17.0 25.4

