

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111125\
 Data File : BF144218.D
 Acq On : 11 Nov 2025 22:57
 Operator : RC/JU
 Sample : Q3581-07
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RBR200059

Quant Time: Nov 12 03:47:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 05 18:37:33 2025
 Response via : Initial Calibration

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

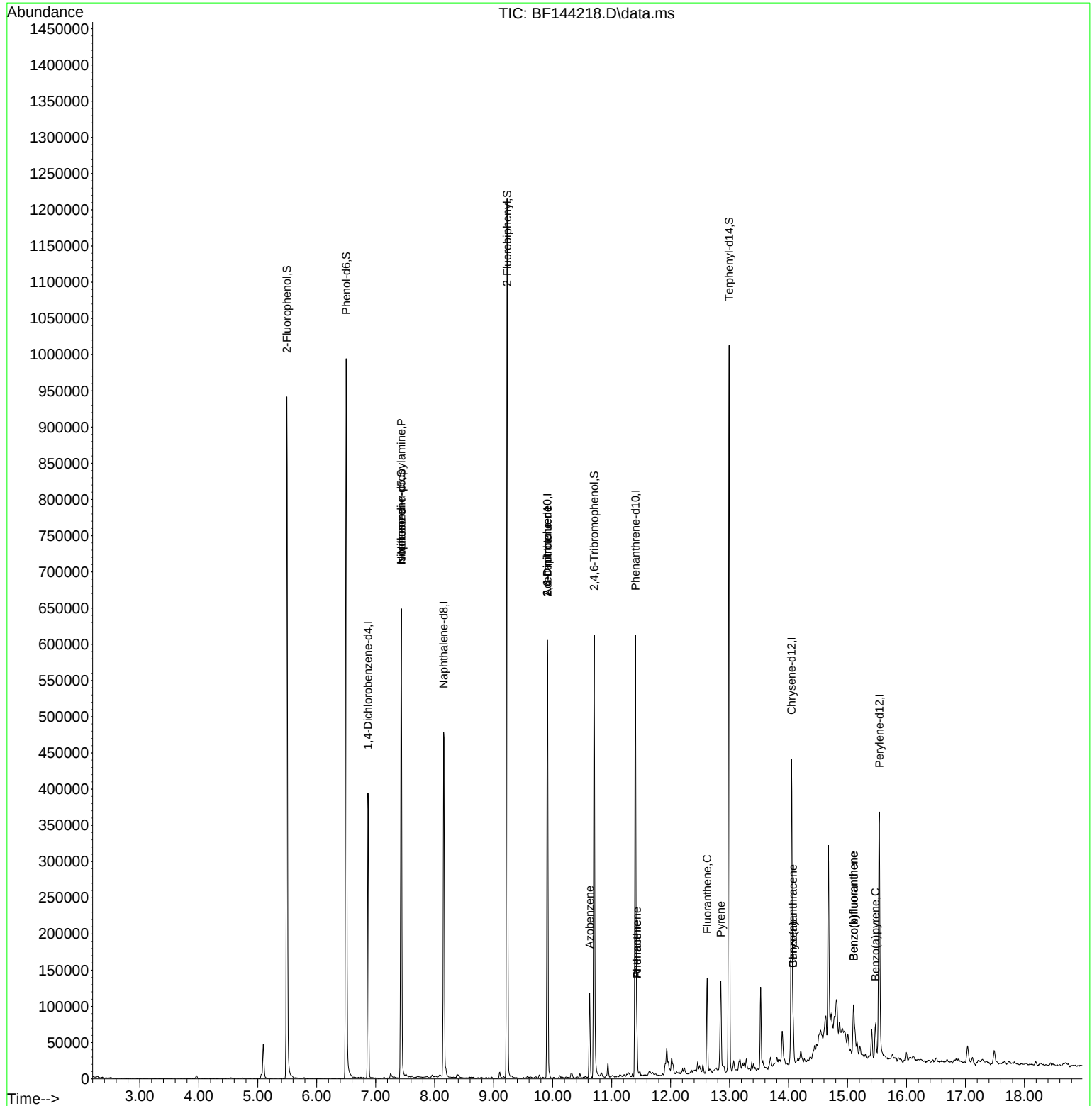
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	83583	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	318280	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	189908	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	330503	20.000	ng	0.00
76) Chrysene-d12	14.051	240	196430	20.000	ng	0.00
86) Perylene-d12	15.539	264	225195	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	361822	67.742	ng	0.00
7) Phenol-d6	6.498	99	424120	70.079	ng	0.00
23) Nitrobenzene-d5	7.434	82	268837	48.783	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	125901	52.830	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	568930	44.246	ng	0.00
79) Terphenyl-d14	12.992	244	522579	42.258	ng	0.00
Target Compounds						
						Qvalue
19) n-Nitroso-di-n-propyla...	7.434	70	40610	10.193	ng	# 77
25) Isophorone	7.434	82	268835	25.790	ng	# 66
51) 2,6-Dinitrotoluene	9.910	165	25025	9.826	ng	# 28
57) 2,4-Dinitrotoluene	9.910	165	25025	7.340	ng	# 28
63) Azobenzene	10.627	77	30576	2.833	ng	# 1
71) Phenanthrene	11.427	178	36636	2.226	ng	99
72) Anthracene	11.427	178	36636	2.190	ng	99
75) Fluoranthene	12.621	202	78881	4.641	ng	100
78) Pyrene	12.851	202	78061	4.929	ng	97
81) Benzo(a)anthracene	14.074	228	33262	2.443	ng	95
83) Chrysene	14.074	228	33262	2.647	ng	95
88) Benzo(b)fluoranthene	15.104	252	63852	4.987	ng	# 97
89) Benzo(k)fluoranthene	15.104	252	63852	5.328	ng	96
90) Benzo(a)pyrene	15.474	252	29067	2.461	ng	# 98

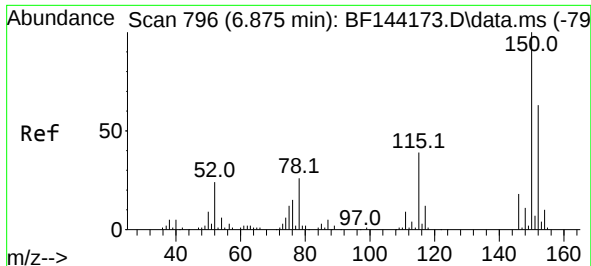
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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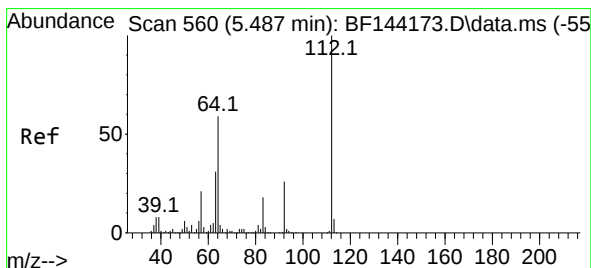
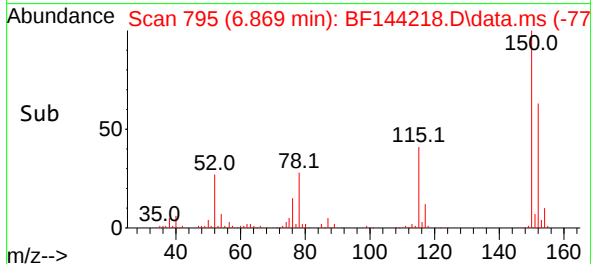
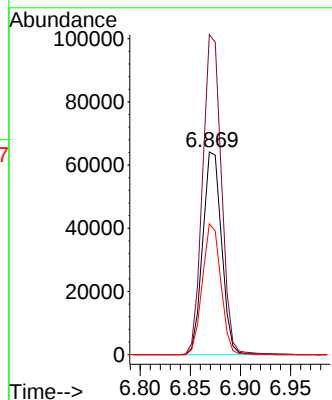
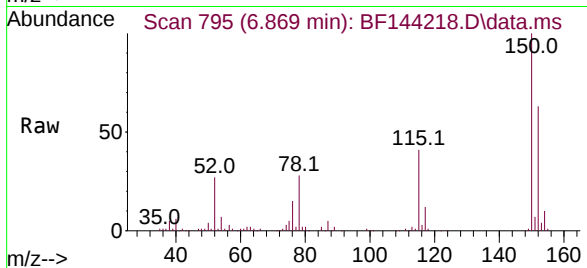




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.869 min Scan# 796
 Delta R.T. -0.006 min
 Lab File: BF144218.D
 Acq: 11 Nov 2025 22:57

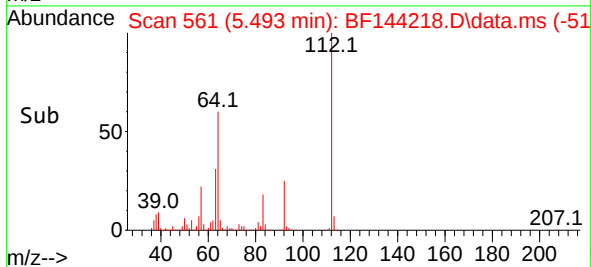
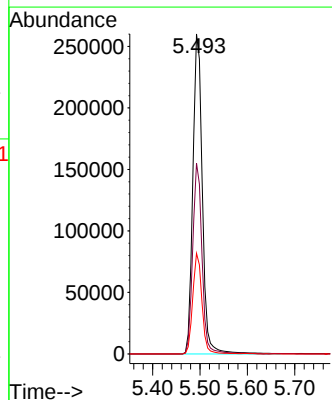
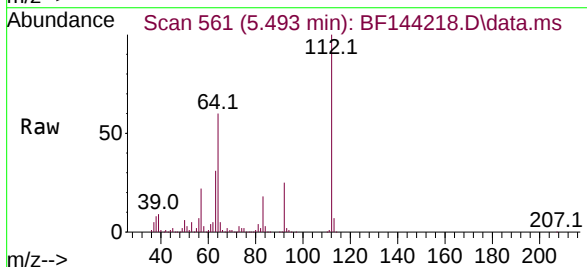
Instrument :
 BNA_F
 ClientSampleId :
 RBR200059

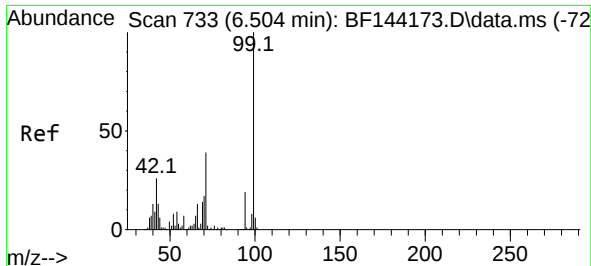
Tgt Ion:152 Resp: 83583
 Ion Ratio Lower Upper
 152 100
 150 157.9 127.4 191.0
 115 64.5 49.5 74.3



#5
 2-Fluorophenol
 Concen: 67.742 ng
 RT: 5.493 min Scan# 561
 Delta R.T. -0.000 min
 Lab File: BF144218.D
 Acq: 11 Nov 2025 22:57

Tgt Ion:112 Resp: 361822
 Ion Ratio Lower Upper
 112 100
 64 59.6 47.2 70.8
 63 31.4 24.4 36.6

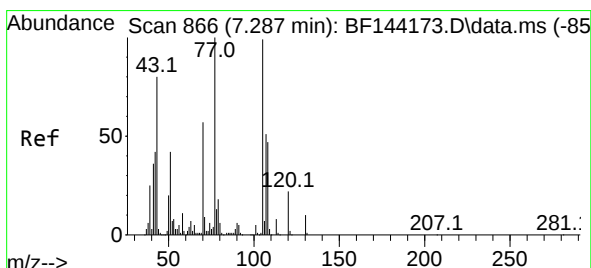
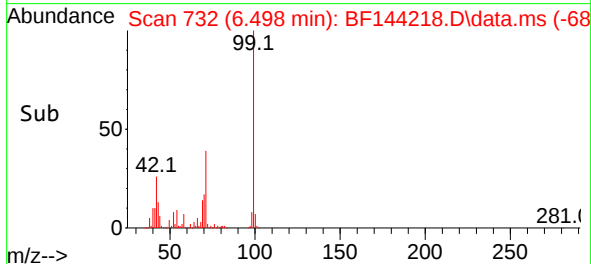
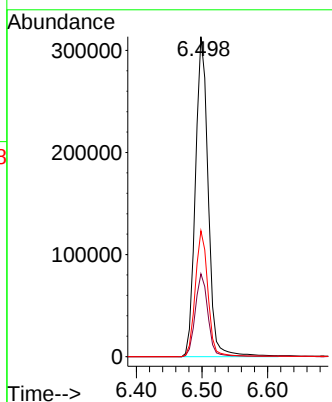
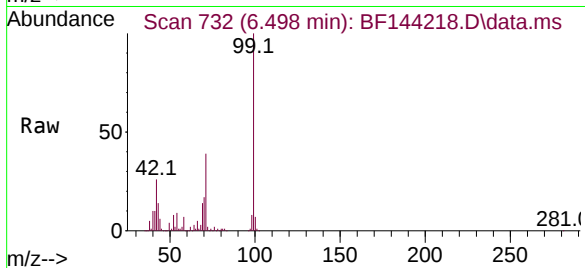




#7
Phenol-d6
Concen: 70.079 ng
RT: 6.498 min Scan# 733
Delta R.T. -0.000 min
Lab File: BF144218.D
Acq: 11 Nov 2025 22:57

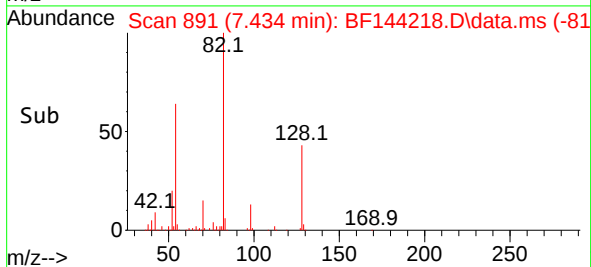
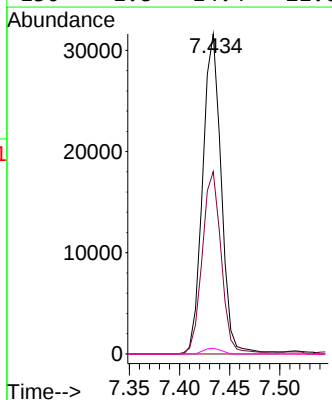
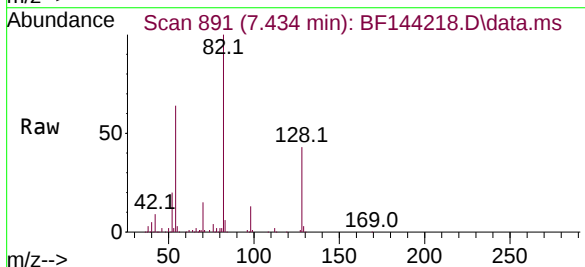
Instrument :
BNA_F
ClientSampleId :
RBR200059

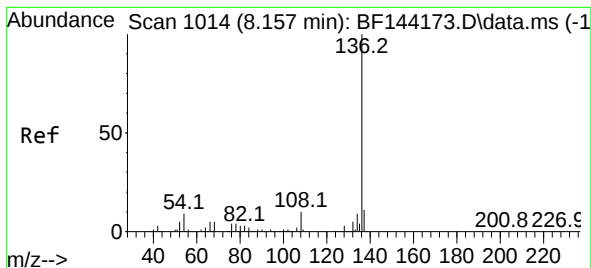
Tgt Ion: 99 Resp: 424120
Ion Ratio Lower Upper
99 100
42 25.9 20.9 31.3
71 39.3 31.4 47.2



#19
n-Nitroso-di-n-propylamine
Concen: 10.193 ng
RT: 7.434 min Scan# 891
Delta R.T. 0.159 min
Lab File: BF144218.D
Acq: 11 Nov 2025 22:57

Tgt Ion: 70 Resp: 40610
Ion Ratio Lower Upper
70 100
42 57.0 58.3 87.5#
101 0.0 7.0 10.6#
130 1.8 14.4 21.6#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.151 min Scan# 10

Delta R.T. -0.006 min

Lab File: BF144218.D

Acq: 11 Nov 2025 22:57

Instrument :

BNA_F

ClientSampleId :

RBR200059

Tgt Ion:136 Resp: 318280

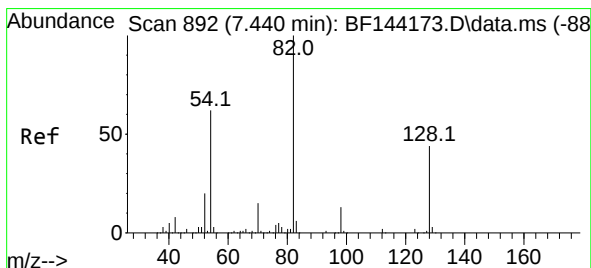
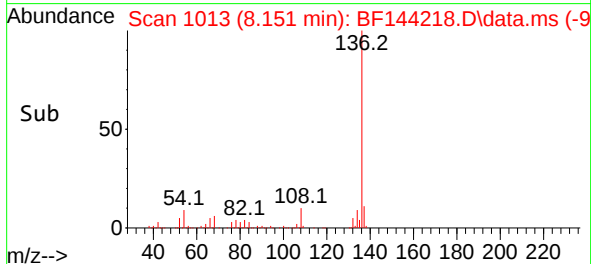
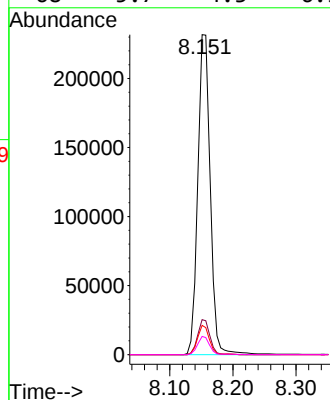
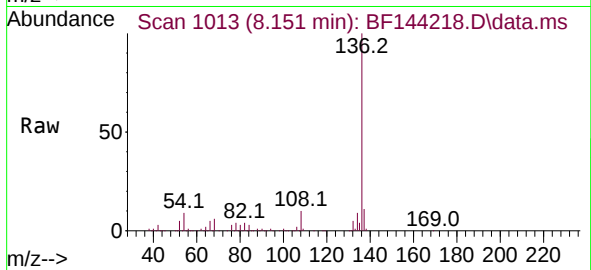
Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 9.1 7.0 10.6

68 5.7 4.3 6.5



#23

Nitrobenzene-d5

Concen: 48.783 ng

RT: 7.434 min Scan# 891

Delta R.T. -0.000 min

Lab File: BF144218.D

Acq: 11 Nov 2025 22:57

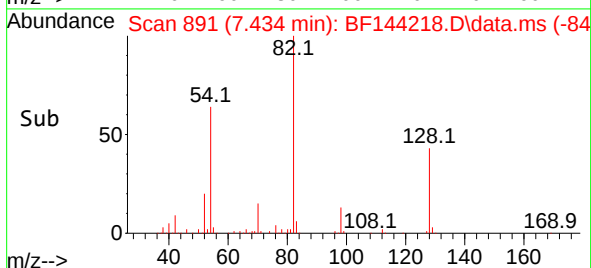
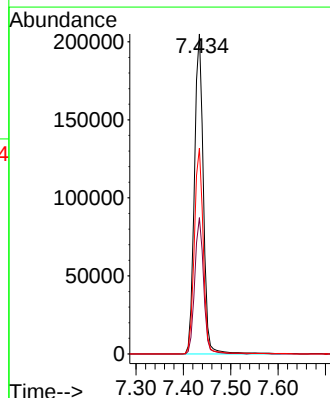
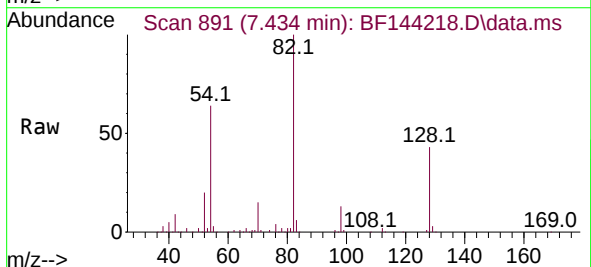
Tgt Ion: 82 Resp: 268837

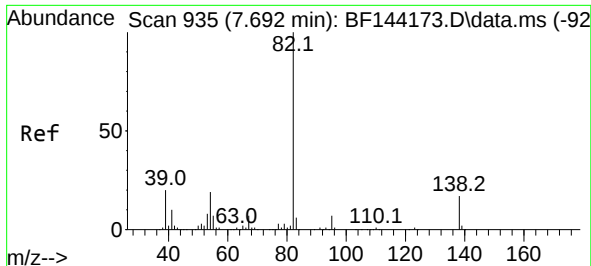
Ion Ratio Lower Upper

82 100

128 42.6 34.7 52.1

54 64.3 49.5 74.3

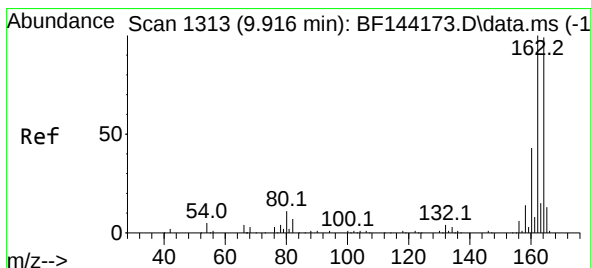
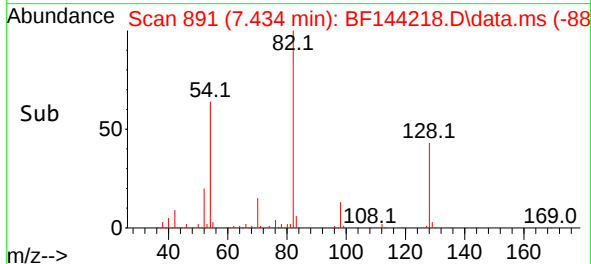
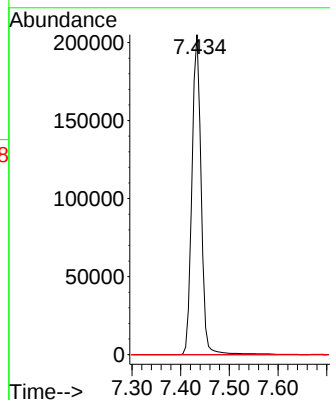
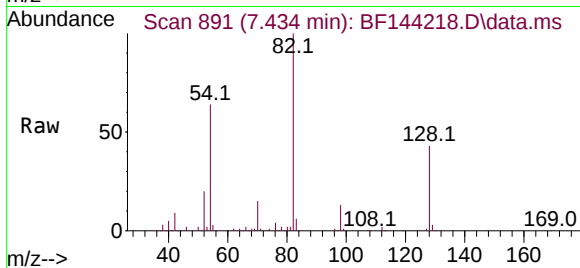




#25
Isophorone
Concen: 25.790 ng
RT: 7.434 min Scan# 89
Delta R.T. -0.253 min
Lab File: BF144218.D
Acq: 11 Nov 2025 22:57

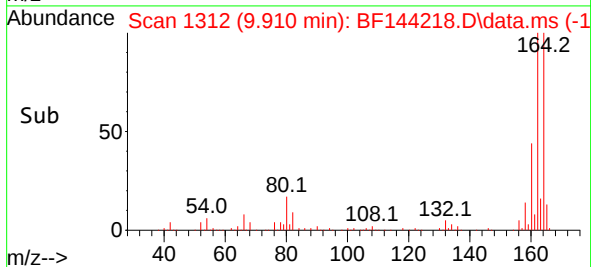
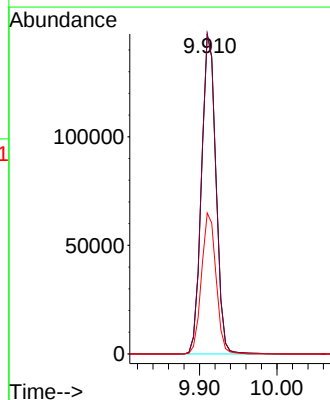
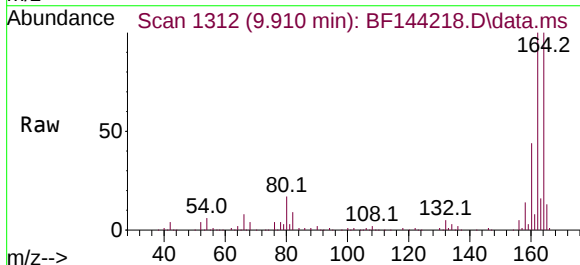
Instrument :
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ClientSampleId :
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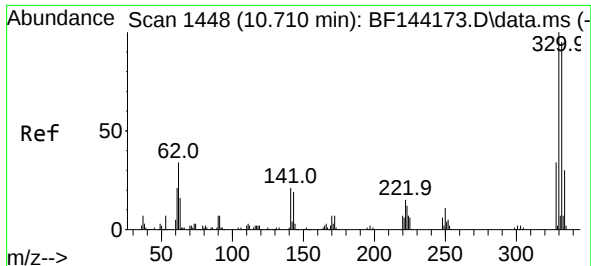
Tgt Ion: 82 Resp: 268835
Ion Ratio Lower Upper
82 100
95 0.0 5.5 8.3#
138 0.0 13.7 20.5#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1312
Delta R.T. -0.006 min
Lab File: BF144218.D
Acq: 11 Nov 2025 22:57

Tgt Ion:164 Resp: 189908
Ion Ratio Lower Upper
164 100
162 100.1 81.1 121.7
160 44.1 34.5 51.7





#42

2,4,6-Tribromophenol

Concen: 52.830 ng

RT: 10.704 min Scan# 1447

Delta R.T. -0.000 min

Lab File: BF144218.D

Acq: 11 Nov 2025 22:57

Instrument :

BNA_F

ClientSampleId :

RBR200059

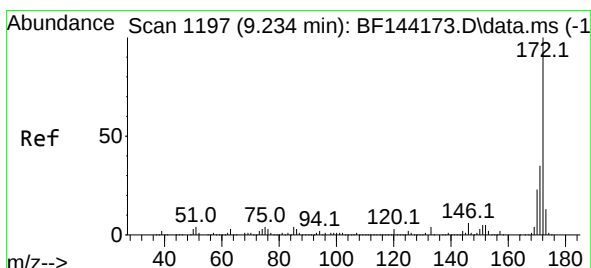
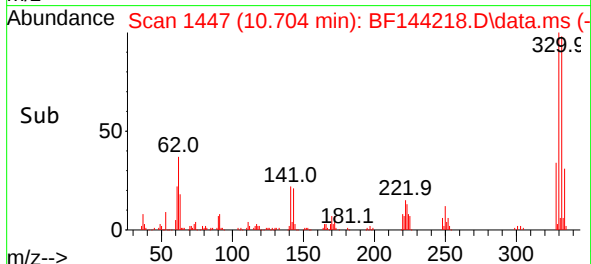
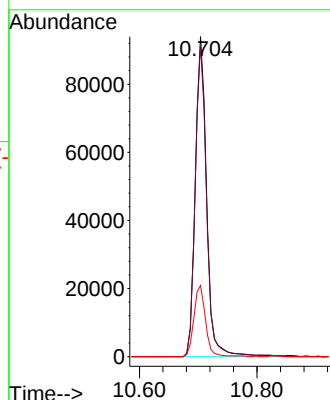
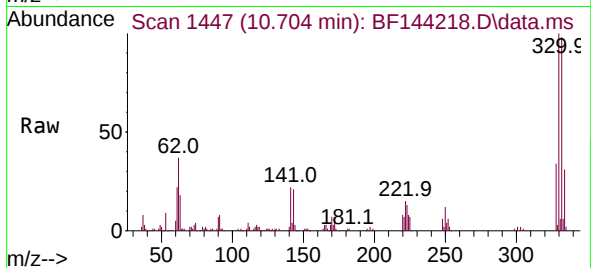
Tgt Ion:330 Resp: 125901

Ion Ratio Lower Upper

330 100

332 96.8 76.7 115.1

141 22.8 17.8 26.8



#45

2-Fluorobiphenyl

Concen: 44.246 ng

RT: 9.228 min Scan# 1196

Delta R.T. -0.000 min

Lab File: BF144218.D

Acq: 11 Nov 2025 22:57

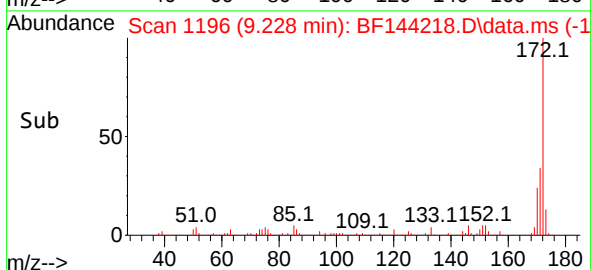
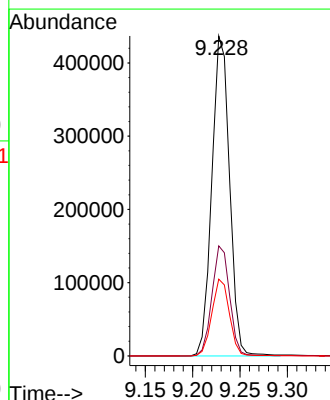
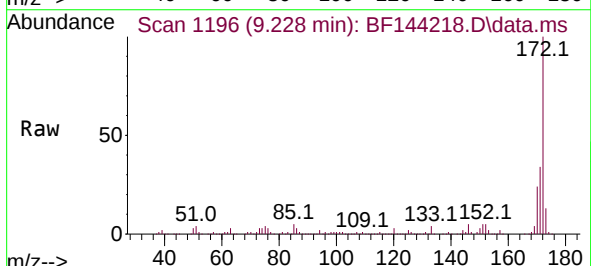
Tgt Ion:172 Resp: 568930

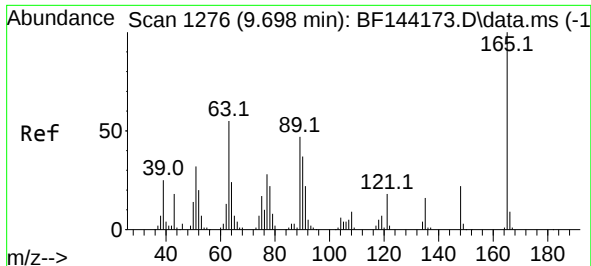
Ion Ratio Lower Upper

172 100

171 34.4 28.1 42.1

170 24.0 18.6 28.0





#51

2,6-Dinitrotoluene

Concen: 9.826 ng

RT: 9.910 min Scan# 1312

Delta R.T. 0.217 min

Lab File: BF144218.D

Acq: 11 Nov 2025 22:57

Instrument :

BNA_F

ClientSampleId :

RBR200059

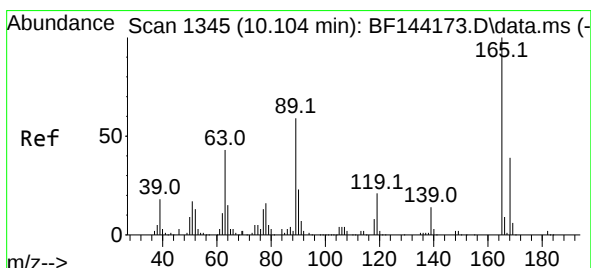
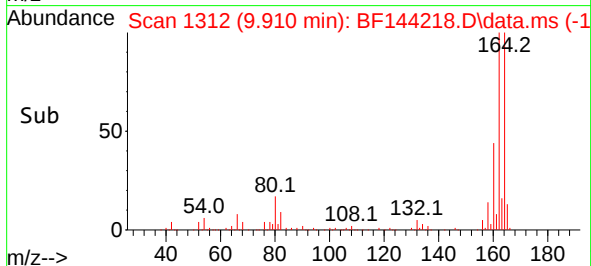
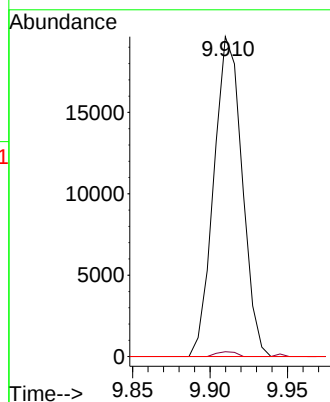
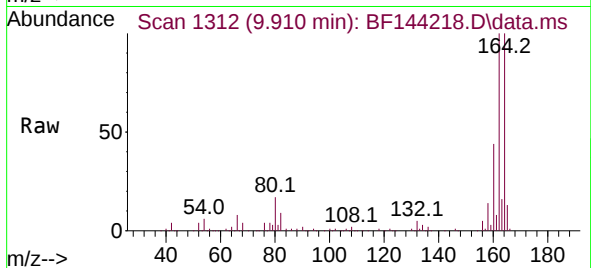
Tgt Ion:165 Resp: 25025

Ion Ratio Lower Upper

165 100

63 1.5 43.8 65.8#

89 0.0 37.5 56.3#



#57

2,4-Dinitrotoluene

Concen: 7.340 ng

RT: 9.910 min Scan# 1312

Delta R.T. -0.188 min

Lab File: BF144218.D

Acq: 11 Nov 2025 22:57

Tgt Ion:165 Resp: 25025

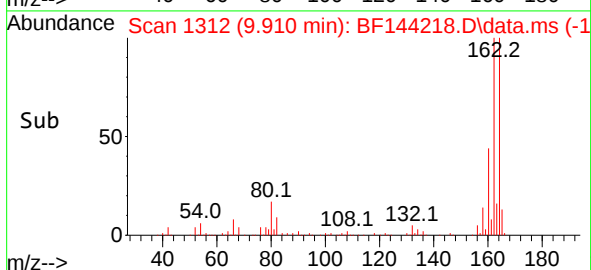
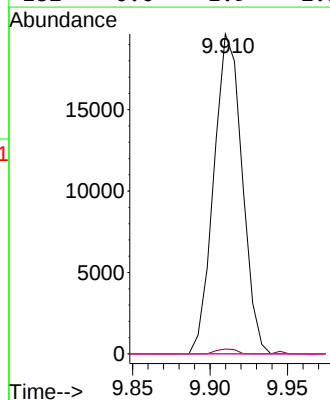
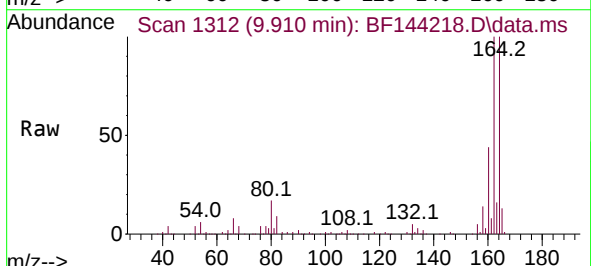
Ion Ratio Lower Upper

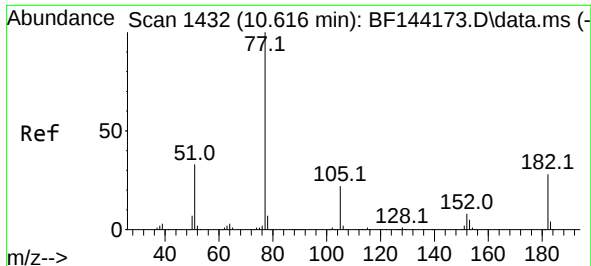
165 100

63 1.5 35.5 53.3#

89 0.0 47.4 71.2#

182 0.0 1.9 2.9#

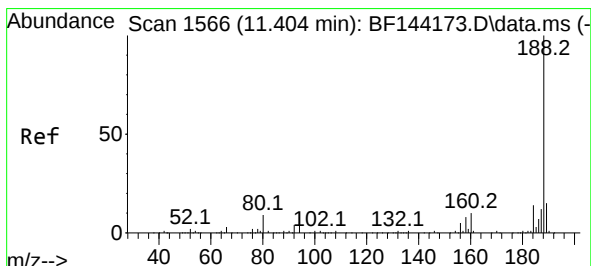
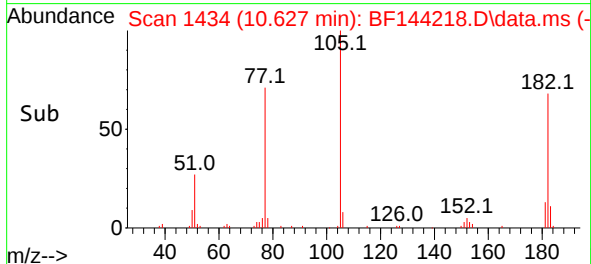
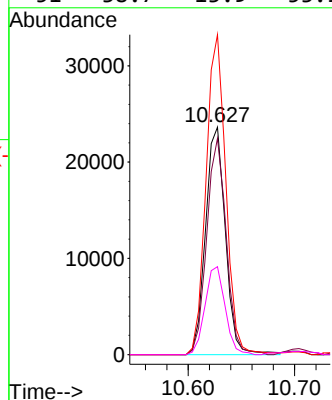
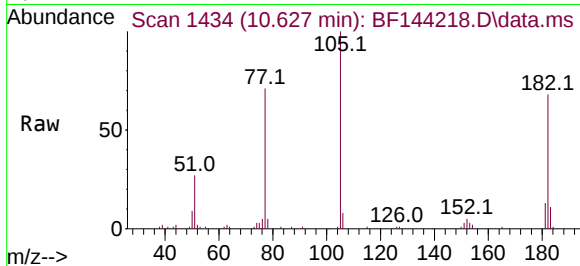




#63
Azobenzene
Concen: 2.833 ng
RT: 10.627 min Scan# 1432
Delta R.T. 0.012 min
Lab File: BF144218.D
Acq: 11 Nov 2025 22:57

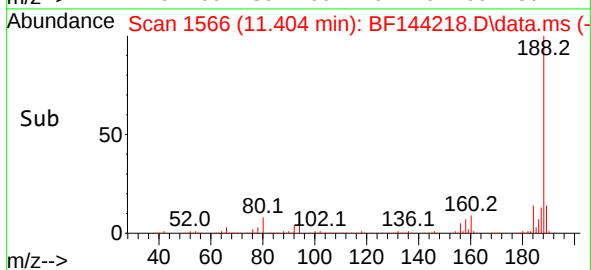
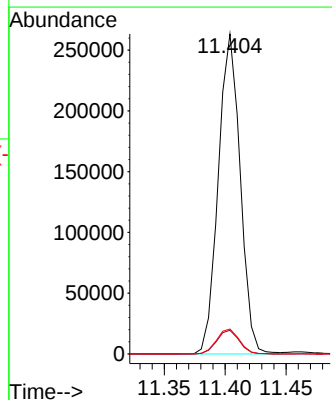
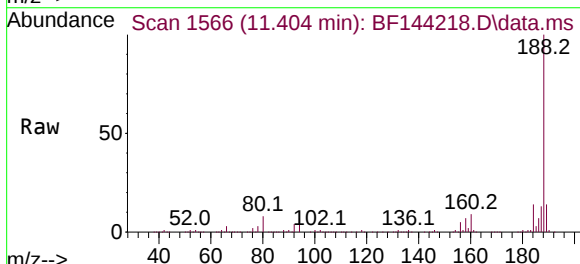
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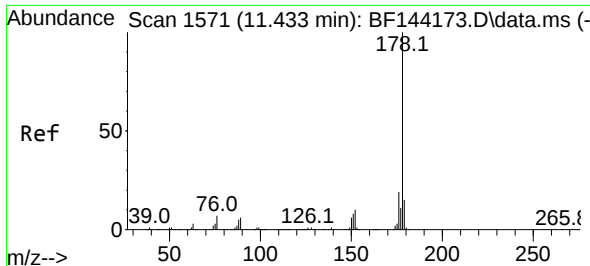
Tgt Ion: 77	Resp: 30576
Ion Ratio	Lower Upper
77 100	
182 95.1	8.1 48.1#
105 140.7	2.0 42.0#
51 38.7	13.9 53.9



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1566
Delta R.T. -0.000 min
Lab File: BF144218.D
Acq: 11 Nov 2025 22:57

Tgt Ion: 188	Resp: 330503
Ion Ratio	Lower Upper
188 100	
94 7.4	6.2 9.2
80 7.8	6.9 10.3

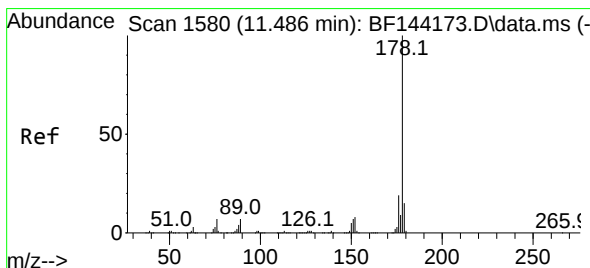
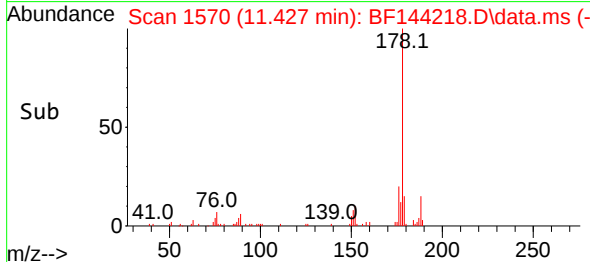
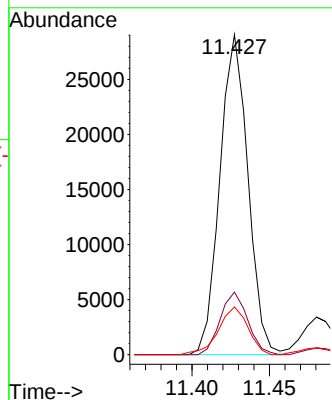
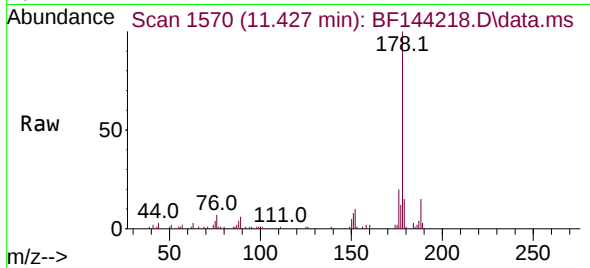




#71
Phenanthrene
Concen: 2.226 ng
RT: 11.427 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF144218.D
Acq: 11 Nov 2025 22:57

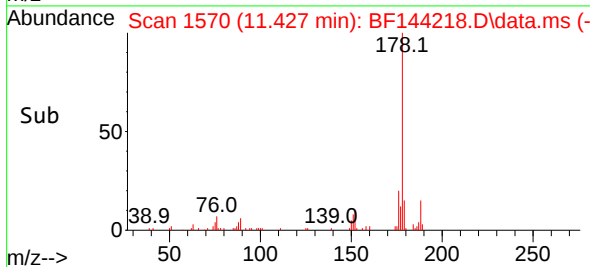
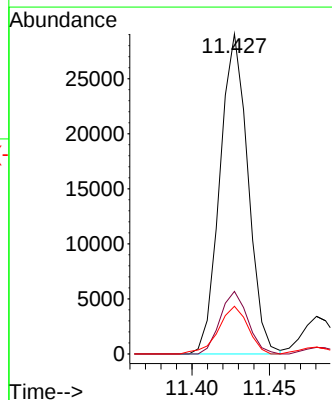
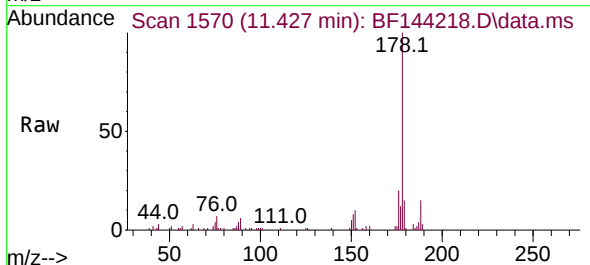
Instrument :
BNA_F
ClientSampleId :
RBR200059

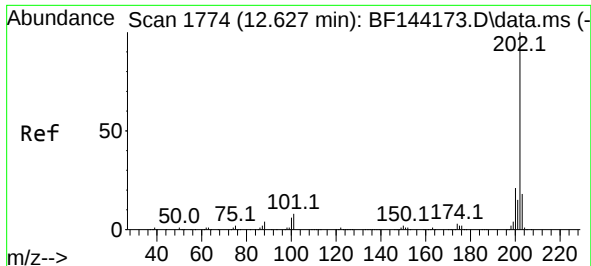
Tgt Ion:178 Resp: 36636
Ion Ratio Lower Upper
178 100
176 19.5 15.5 23.3
179 14.9 12.2 18.4



#72
Anthracene
Concen: 2.190 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.053 min
Lab File: BF144218.D
Acq: 11 Nov 2025 22:57

Tgt Ion:178 Resp: 36636
Ion Ratio Lower Upper
178 100
176 19.5 15.3 22.9
179 14.9 12.0 18.0

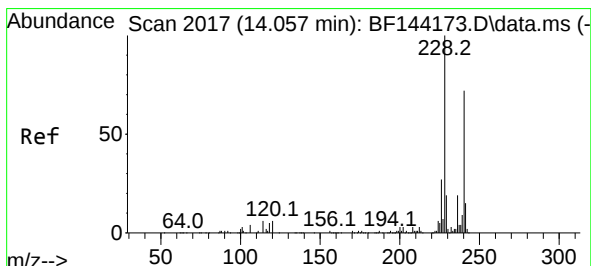
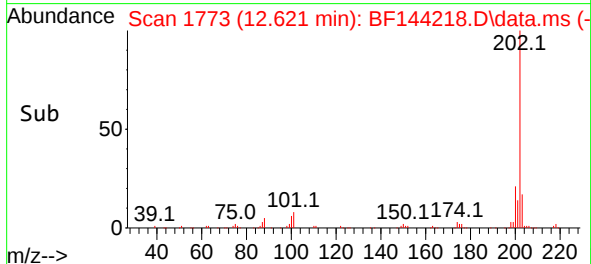
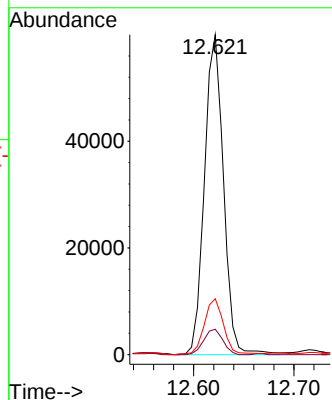
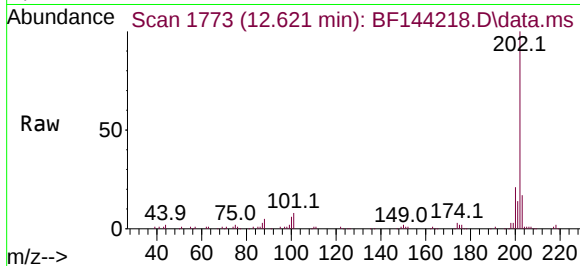




#75
Fluoranthene
Concen: 4.641 ng
RT: 12.621 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF144218.D
Acq: 11 Nov 2025 22:57

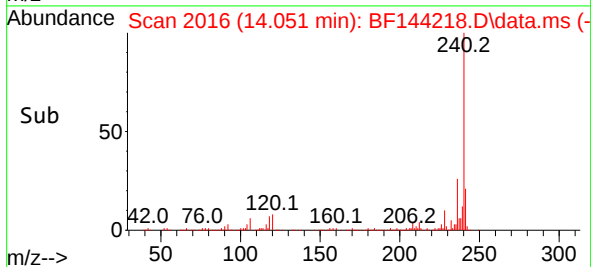
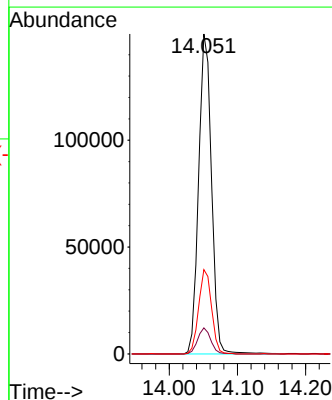
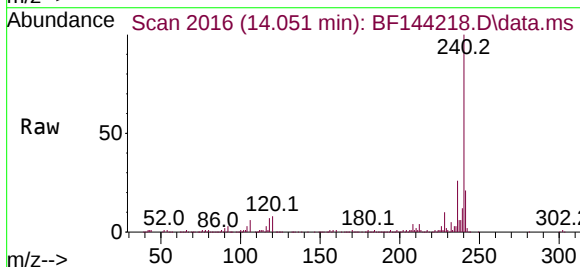
Instrument :
BNA_F
ClientSampleId :
RBR200059

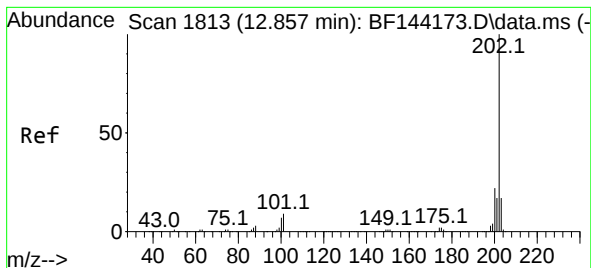
Tgt Ion:202 Resp: 78881
Ion Ratio Lower Upper
202 100
101 7.9 0.0 27.9
203 17.5 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.000 min
Lab File: BF144218.D
Acq: 11 Nov 2025 22:57

Tgt Ion:240 Resp: 196430
Ion Ratio Lower Upper
240 100
120 8.1 6.6 10.0
236 26.3 21.4 32.2





#78

Pyrene

Concen: 4.929 ng

RT: 12.851 min Scan# 1813

Delta R.T. -0.000 min

Lab File: BF144218.D

Acq: 11 Nov 2025 22:57

Instrument :

BNA_F

ClientSampleId :

RBR200059

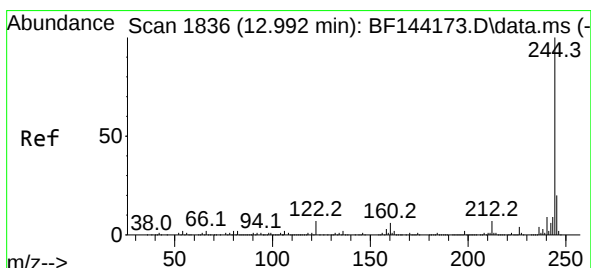
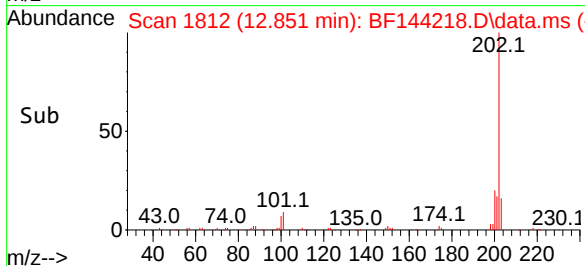
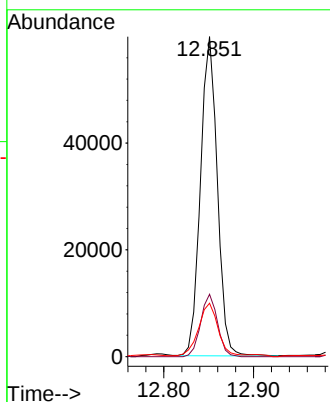
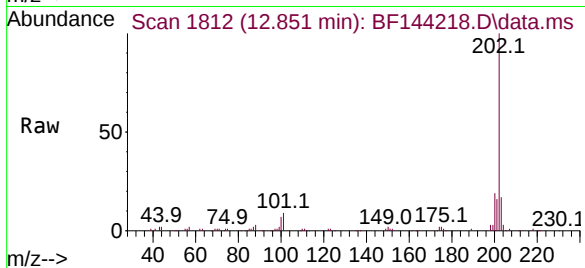
Tgt Ion:202 Resp: 78061

Ion Ratio Lower Upper

202 100

200 19.5 17.2 25.8

203 16.7 13.7 20.5



#79

Terphenyl-d14

Concen: 42.258 ng

RT: 12.992 min Scan# 1836

Delta R.T. -0.000 min

Lab File: BF144218.D

Acq: 11 Nov 2025 22:57

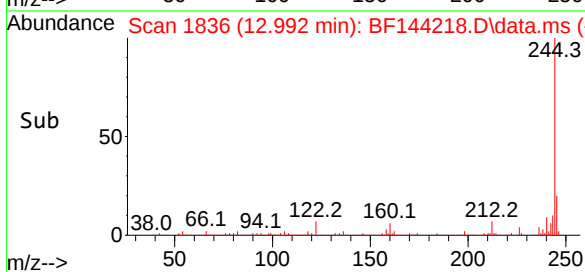
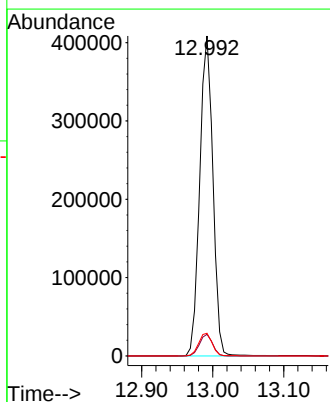
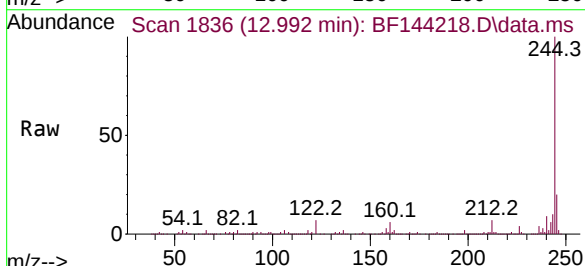
Tgt Ion:244 Resp: 522579

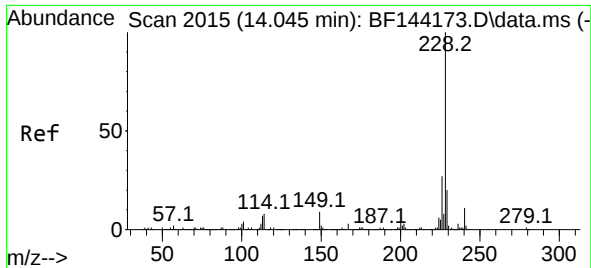
Ion Ratio Lower Upper

244 100

212 6.7 5.3 7.9

122 7.1 5.6 8.4

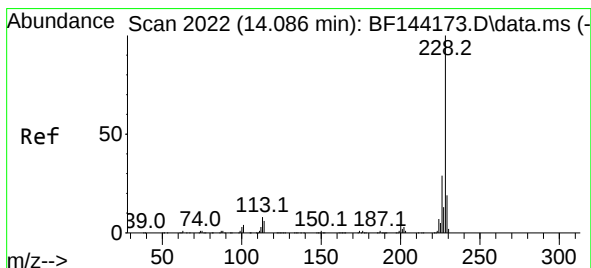
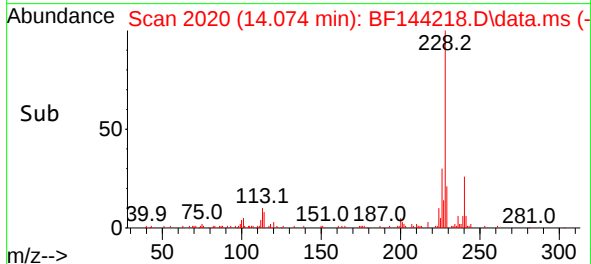
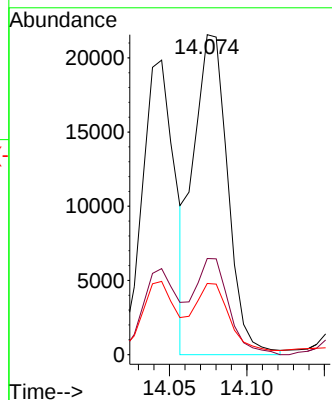
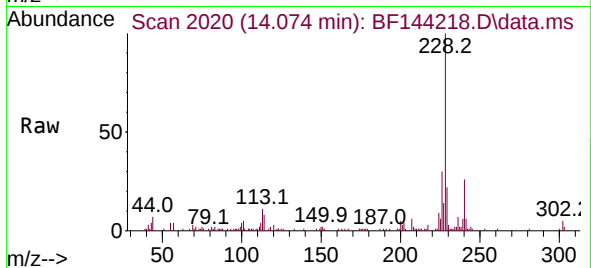




#81
Benzo(a)anthracene
Concen: 2.443 ng
RT: 14.074 min Scan# 20
Delta R.T. 0.029 min
Lab File: BF144218.D
Acq: 11 Nov 2025 22:57

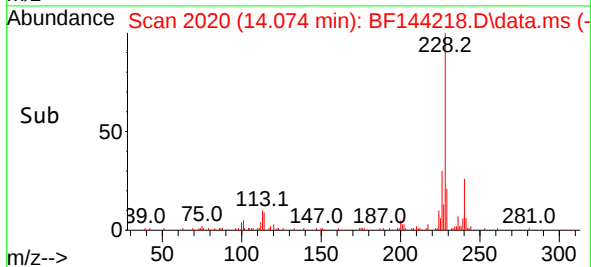
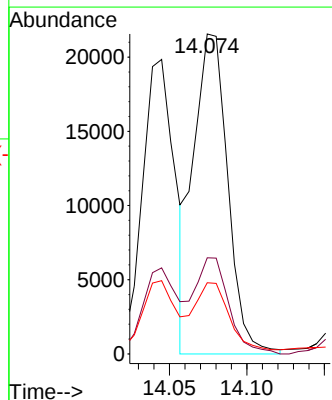
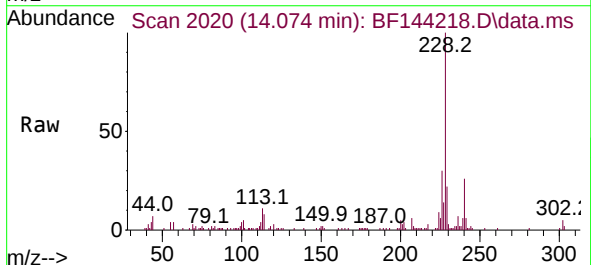
Instrument :
BNA_F
ClientSampleId :
RBR200059

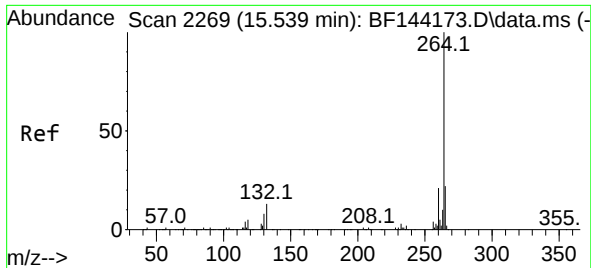
Tgt Ion:228 Resp: 33262
Ion Ratio Lower Upper
228 100
226 30.0 21.8 32.8
229 22.3 15.8 23.6



#83
Chrysene
Concen: 2.647 ng
RT: 14.074 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF144218.D
Acq: 11 Nov 2025 22:57

Tgt Ion:228 Resp: 33262
Ion Ratio Lower Upper
228 100
226 30.0 22.9 34.3
229 22.3 15.0 22.6

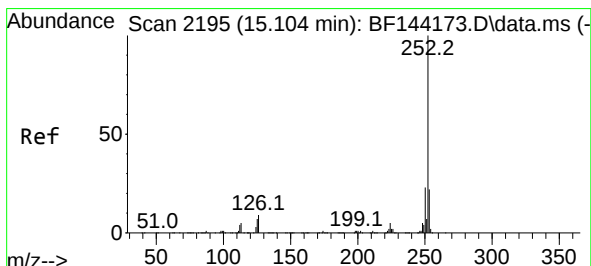
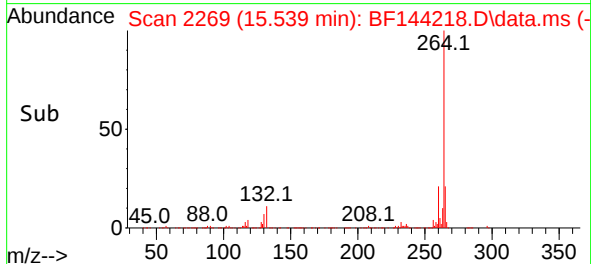
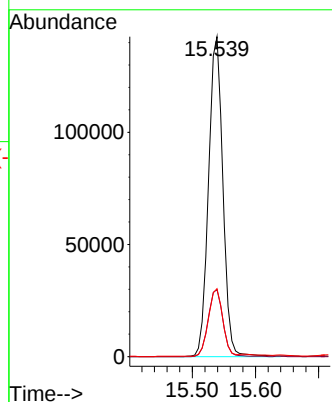
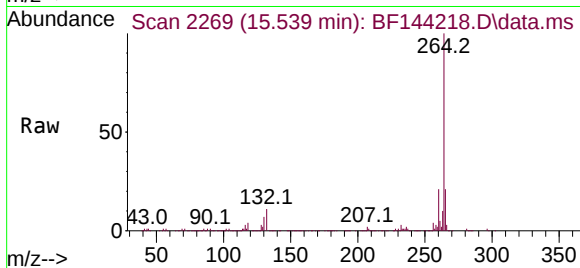




#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.539 min Scan# 21195
 Delta R.T. -0.000 min
 Lab File: BF144218.D
 Acq: 11 Nov 2025 22:57

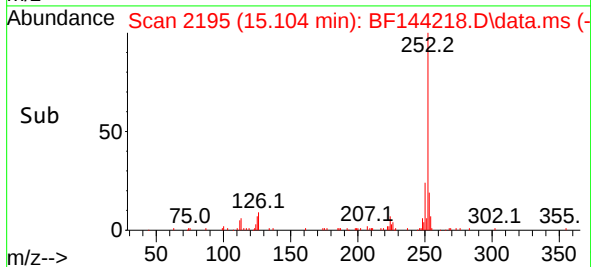
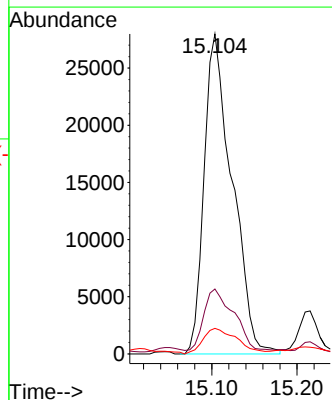
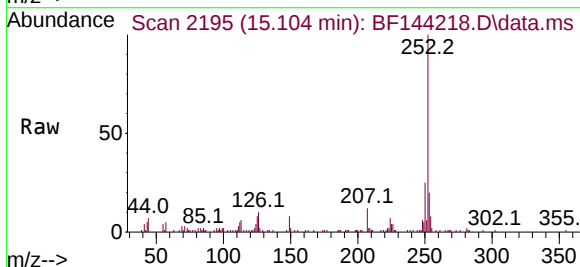
Instrument :
 BNA_F
 ClientSampleId :
 RBR200059

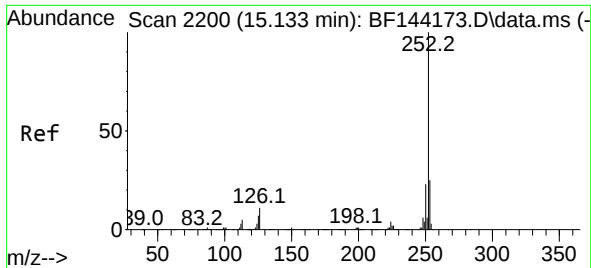
Tgt Ion:264 Resp: 225195
 Ion Ratio Lower Upper
 264 100
 260 20.9 17.1 25.7
 265 21.2 17.4 26.0



#88
 Benzo(b)fluoranthene
 Concen: 4.987 ng
 RT: 15.104 min Scan# 2195
 Delta R.T. 0.006 min
 Lab File: BF144218.D
 Acq: 11 Nov 2025 22:57

Tgt Ion:252 Resp: 63852
 Ion Ratio Lower Upper
 252 100
 253 20.3 17.4 26.2
 125 8.0 5.3 7.9#





#89

Benzo(k)fluoranthene

Concen: 5.328 ng

RT: 15.104 min Scan# 21

Delta R.T. -0.024 min

Lab File: BF144218.D

Acq: 11 Nov 2025 22:57

Instrument :

BNA_F

ClientSampleId :

RBR200059

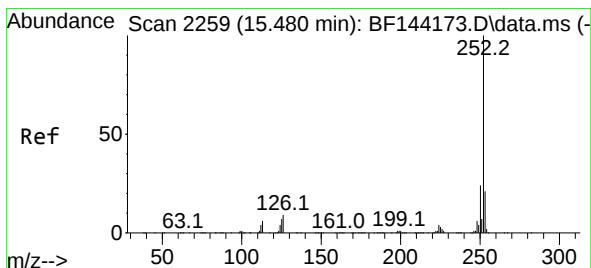
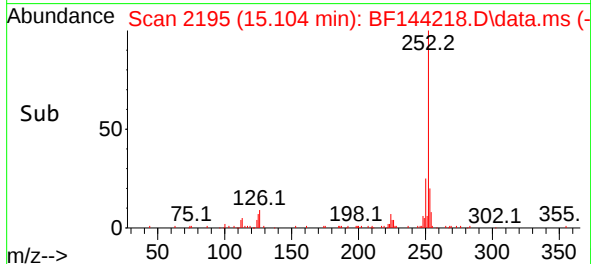
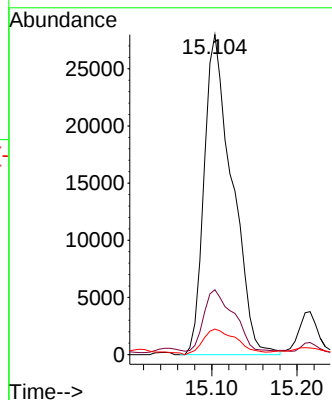
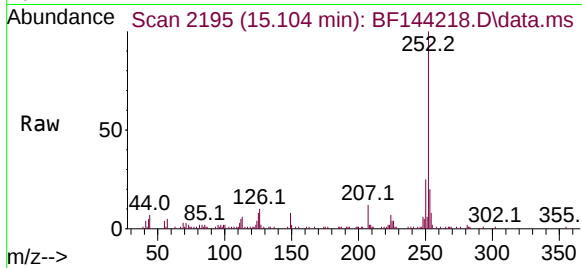
Tgt Ion:252 Resp: 63852

Ion Ratio Lower Upper

252 100

253 20.3 18.0 27.0

125 8.0 5.4 8.2



#90

Benzo(a)pyrene

Concen: 2.461 ng

RT: 15.474 min Scan# 2258

Delta R.T. -0.000 min

Lab File: BF144218.D

Acq: 11 Nov 2025 22:57

Tgt Ion:252 Resp: 29067

Ion Ratio Lower Upper

252 100

253 21.2 16.7 25.1

125 9.3 5.7 8.5#

