

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102125\
 Data File : BF144024.D
 Acq On : 21 Oct 2025 20:56
 Operator : RC/JU
 Sample : Q3403-01
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MH-18

Quant Time: Oct 22 11:12:26 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)

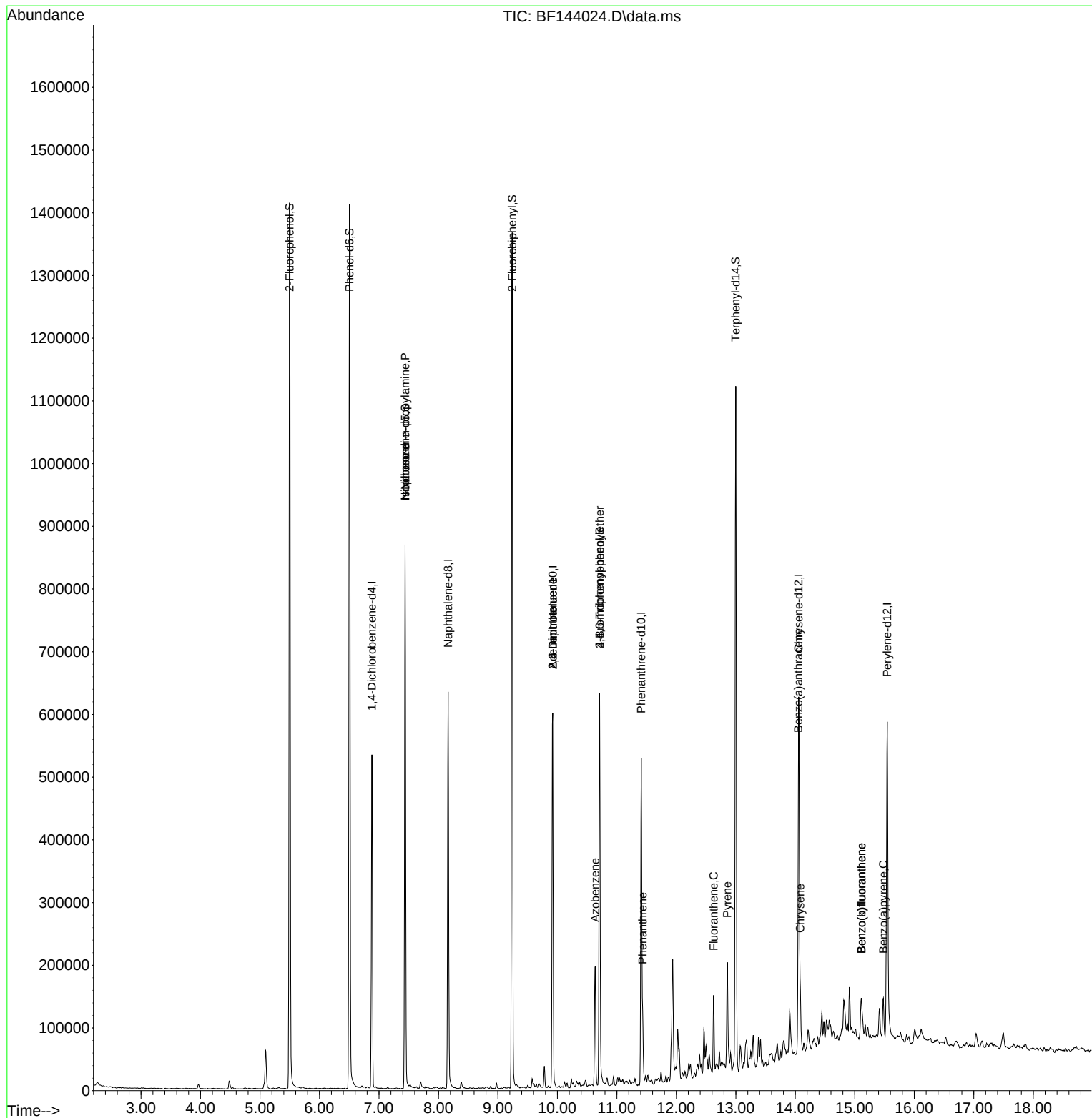
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	107974	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	398391	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	190013	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	274797	20.000	ng	0.00
76) Chrysene-d12	14.057	240	248017	20.000	ng	-0.01
86) Perylene-d12	15.545	264	319177	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	541301	79.610	ng	0.00
7) Phenol-d6	6.504	99	620825	76.601	ng	-0.01
23) Nitrobenzene-d5	7.439	82	357587	54.532	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	116649	61.635	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	657559	54.911	ng	-0.01
79) Terphenyl-d14	12.998	244	548787	37.817	ng	-0.01
Target Compounds						
						Qvalue
19) n-Nitroso-di-n-propyla...	7.439	70	51780	9.334	ng	# 77
25) Isophorone	7.439	82	304320	22.010	ng	# 68
51) 2,6-Dinitrotoluene	9.922	165	23604	10.549	ng	# 26
57) 2,4-Dinitrotoluene	9.922	165	23604	7.753	ng	# 26
63) Azobenzene	10.633	77	48127	4.108	ng	# 1
67) 4-Bromophenyl-phenylether	10.710	248	6990	2.302	ng	# 1
71) Phenanthrene	11.433	178	59589	4.473	ng	98
75) Fluoranthene	12.627	202	62094	4.512	ng	97
78) Pyrene	12.857	202	97171	4.700	ng	99
81) Benzo(a)anthracene	14.051	228	44978	2.771	ng	# 75
83) Chrysene	14.080	228	54700	3.641	ng	94
88) Benzo(b)fluoranthene	15.110	252	52995	2.890	ng	# 91
89) Benzo(k)fluoranthene	15.110	252	52995	3.124	ng	# 92
90) Benzo(a)pyrene	15.480	252	37422	2.354	ng	# 98

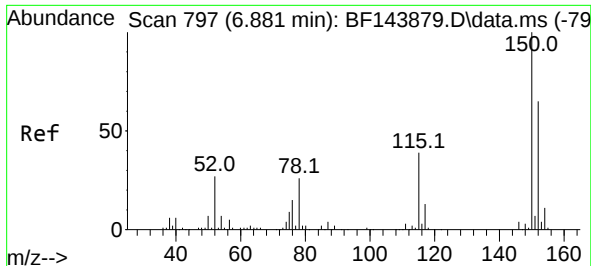
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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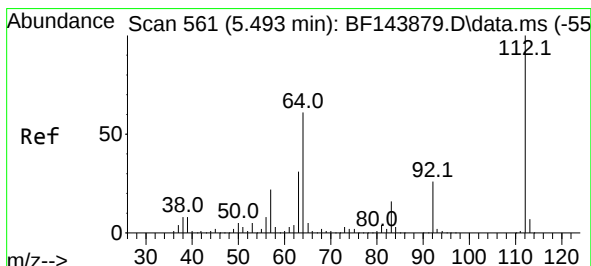
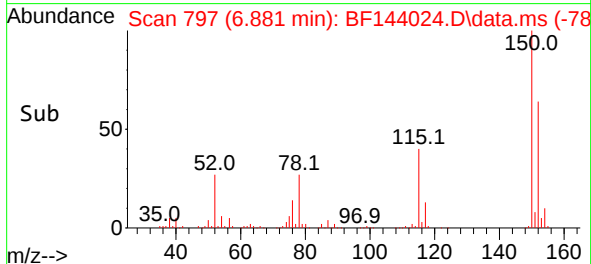
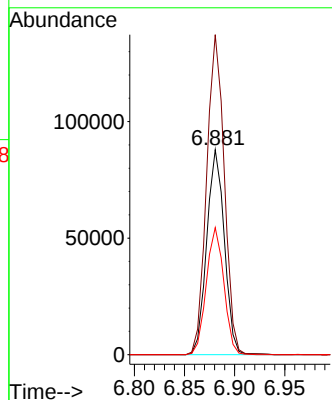
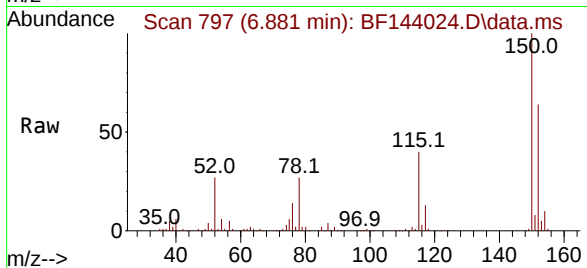




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 79
Delta R.T. -0.005 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

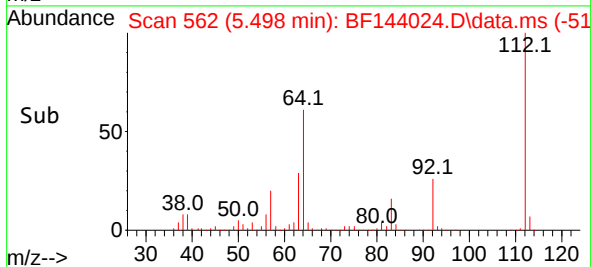
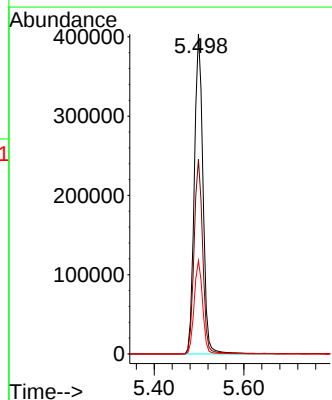
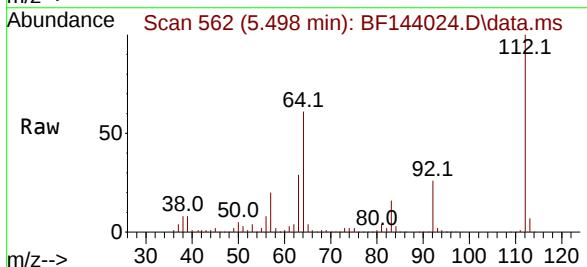
Instrument :
BNA_F
ClientSampleId :
MH-18

Tgt Ion:152 Resp: 107974
Ion Ratio Lower Upper
152 100
150 156.1 124.4 186.6
115 62.0 48.1 72.1



#5
2-Fluorophenol
Concen: 79.610 ng
RT: 5.498 min Scan# 562
Delta R.T. 0.000 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

Tgt Ion:112 Resp: 541301
Ion Ratio Lower Upper
112 100
64 60.8 49.1 73.7
63 29.2 24.5 36.7

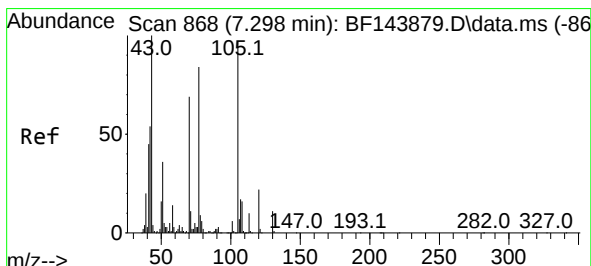
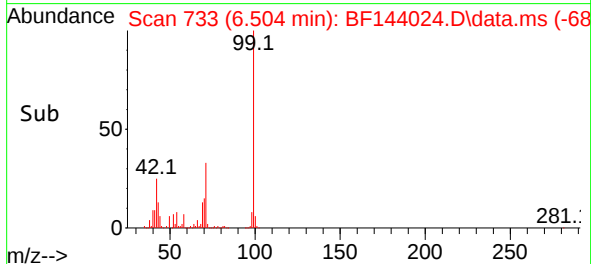
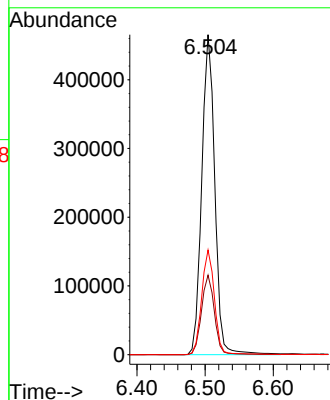
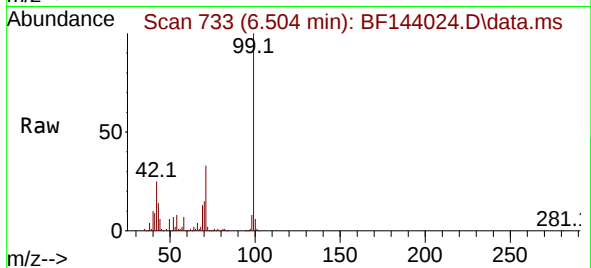




#7
Phenol-d6
Concen: 76.601 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

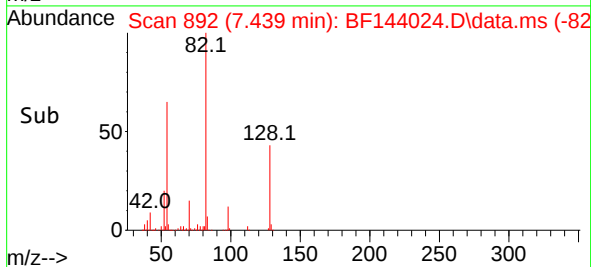
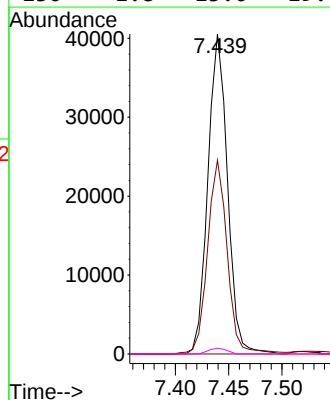
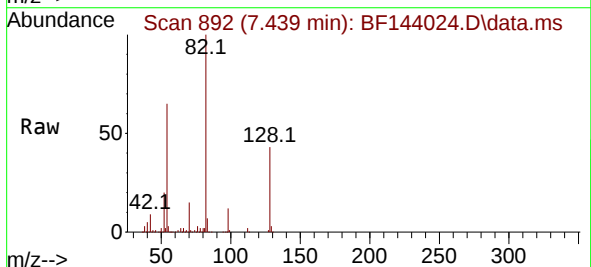
Instrument :
BNA_F
ClientSampleId :
MH-18

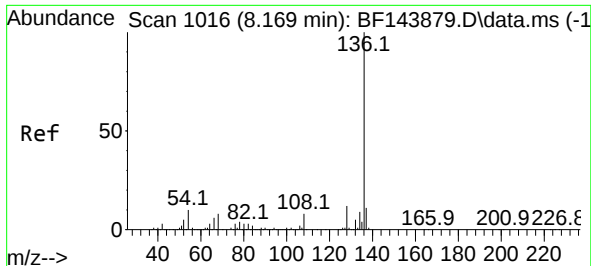
Tgt Ion: 99 Resp: 620825
Ion Ratio Lower Upper
99 100
42 24.8 21.0 31.4
71 32.7 27.8 41.8



#19
n-Nitroso-di-n-propylamine
Concen: 9.334 ng
RT: 7.439 min Scan# 892
Delta R.T. 0.124 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

Tgt Ion: 70 Resp: 51780
Ion Ratio Lower Upper
70 100
42 60.6 62.8 94.2#
101 0.0 6.7 10.1#
130 1.8 13.0 19.4#



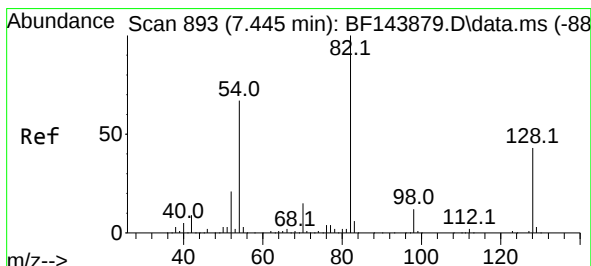
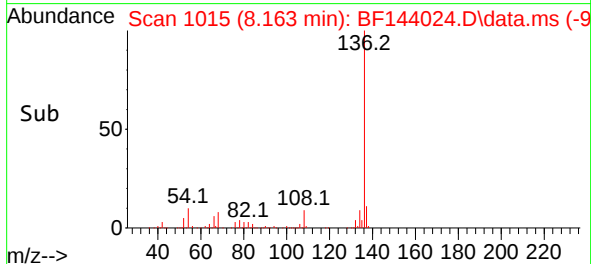
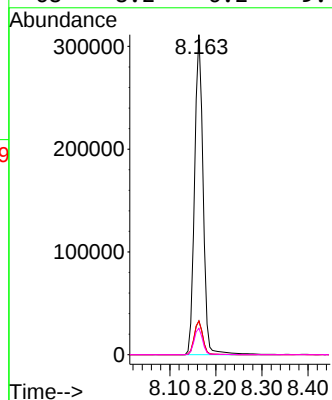
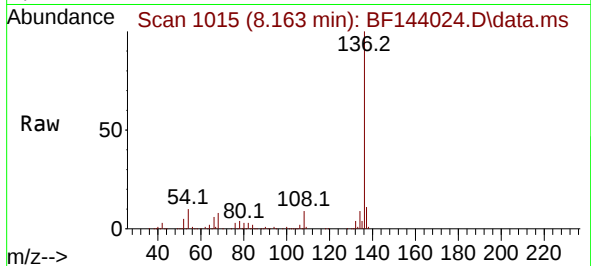


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

Instrument :
BNA_F
ClientSampleId :
MH-18

Tgt Ion:136 Resp: 398391

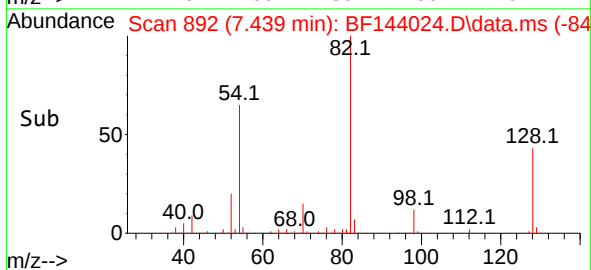
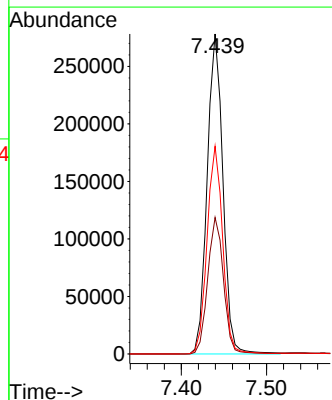
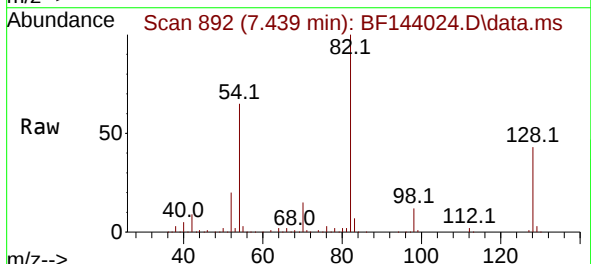
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.5	12.7
54	10.5	8.2	12.4
68	8.2	6.2	9.4

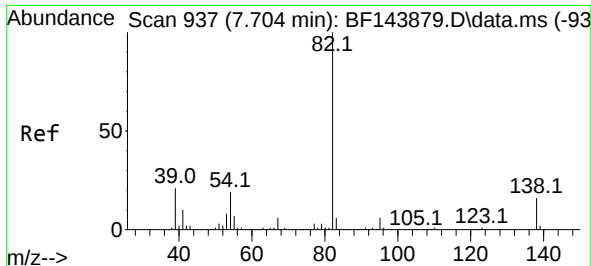


#23
Nitrobenzene-d5
Concen: 54.532 ng
RT: 7.439 min Scan# 892
Delta R.T. -0.018 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

Tgt Ion: 82 Resp: 357587

Ion	Ratio	Lower	Upper
82	100		
128	42.7	34.0	51.0
54	64.9	53.2	79.8

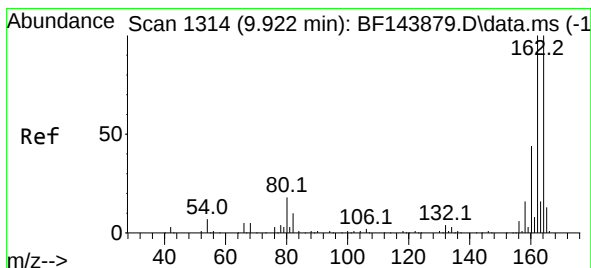
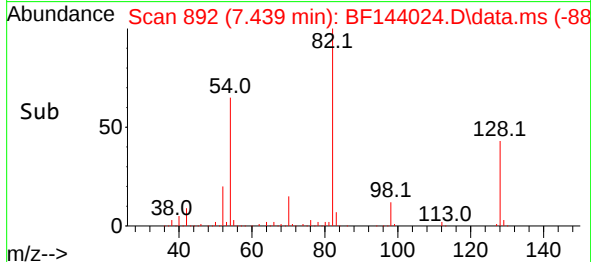
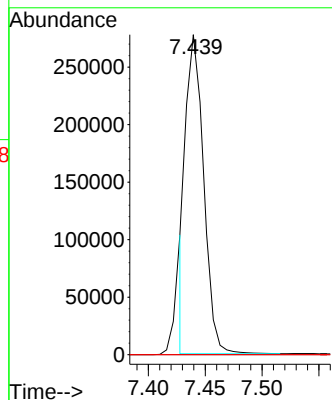
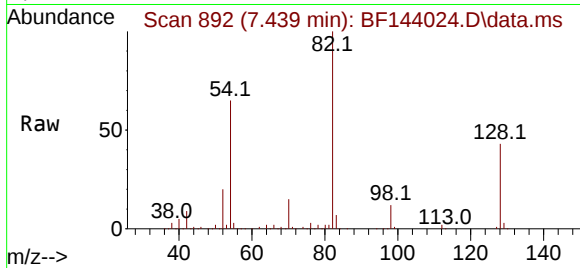




#25
Isophorone
Concen: 22.010 ng
RT: 7.439 min Scan# 89
Delta R.T. -0.282 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

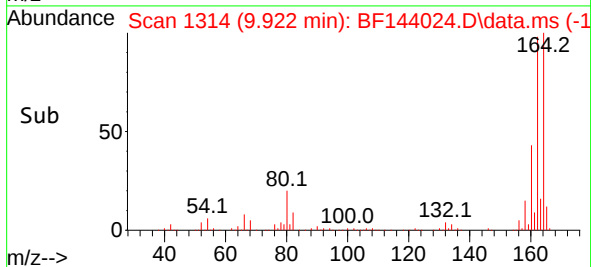
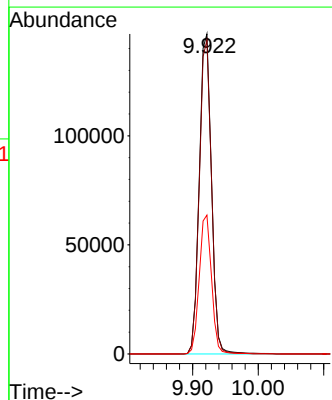
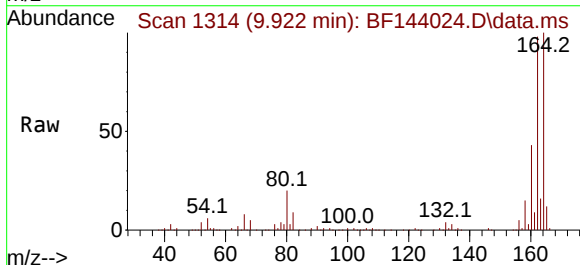
Instrument :
BNA_F
ClientSampleId :
MH-18

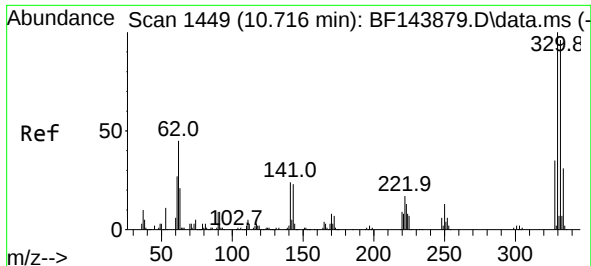
Tgt Ion: 82 Resp: 304320
Ion Ratio Lower Upper
82 100
95 0.0 5.1 7.7#
138 0.0 12.9 19.3#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

Tgt Ion:164 Resp: 190013
Ion Ratio Lower Upper
164 100
162 98.0 80.2 120.2
160 43.4 35.4 53.0





#42

2,4,6-Tribromophenol

Concen: 61.635 ng

RT: 10.710 min Scan# 1448

Delta R.T. -0.012 min

Lab File: BF144024.D

Acq: 21 Oct 2025 20:56

Instrument :

BNA_F

ClientSampleId :

MH-18

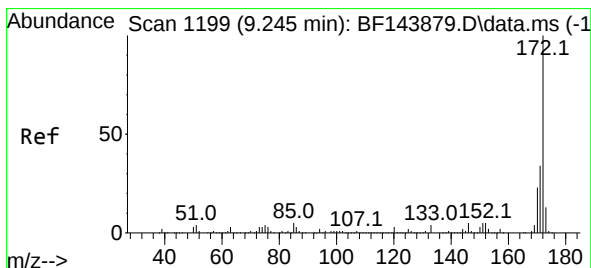
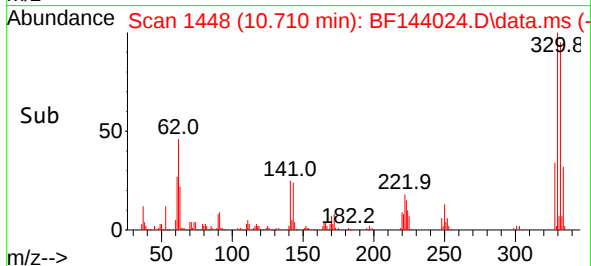
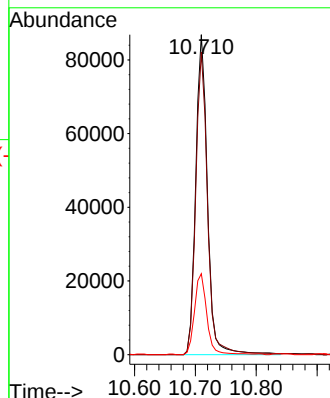
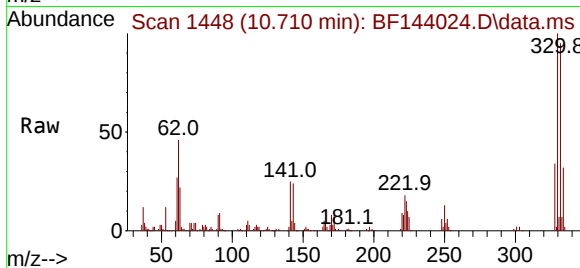
Tgt Ion:330 Resp: 116649

Ion Ratio Lower Upper

330 100

332 94.7 76.9 115.3

141 26.6 20.2 30.4



#45

2-Fluorobiphenyl

Concen: 54.911 ng

RT: 9.239 min Scan# 1198

Delta R.T. -0.012 min

Lab File: BF144024.D

Acq: 21 Oct 2025 20:56

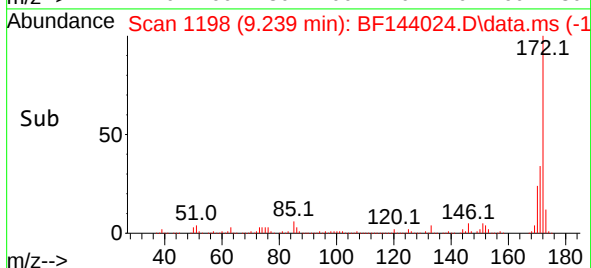
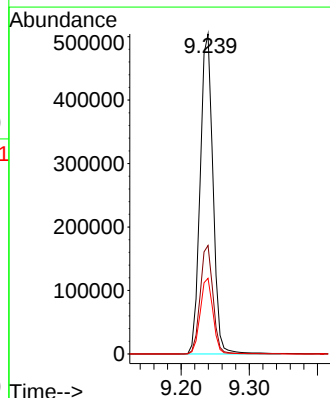
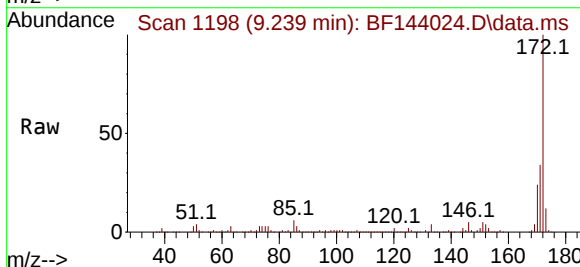
Tgt Ion:172 Resp: 657559

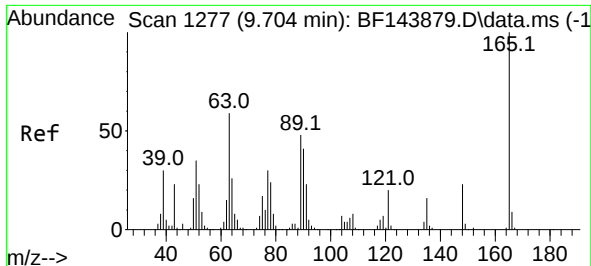
Ion Ratio Lower Upper

172 100

171 33.9 27.4 41.0

170 23.7 18.6 28.0

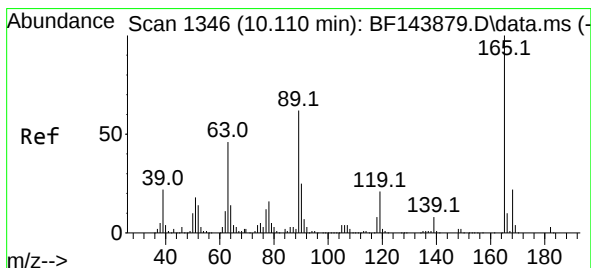
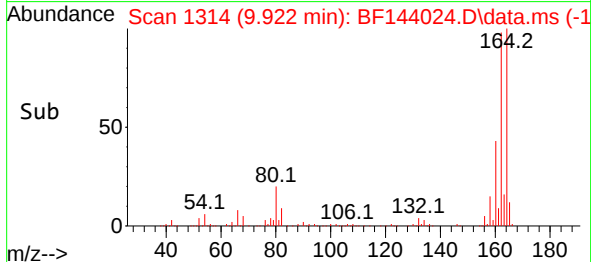
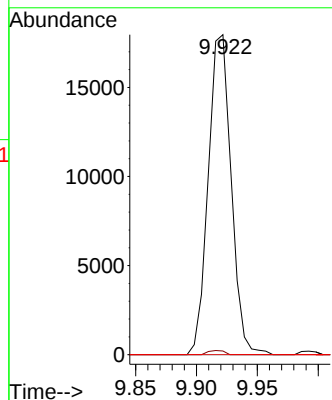
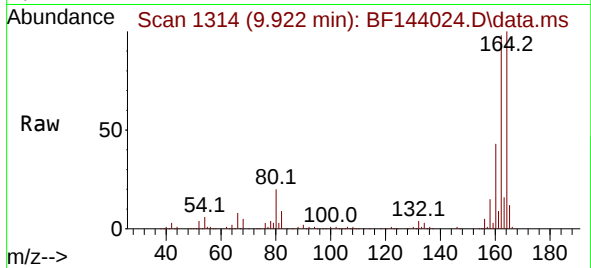




#51
2,6-Dinitrotoluene
Concen: 10.549 ng
RT: 9.922 min Scan# 11
Delta R.T. 0.206 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

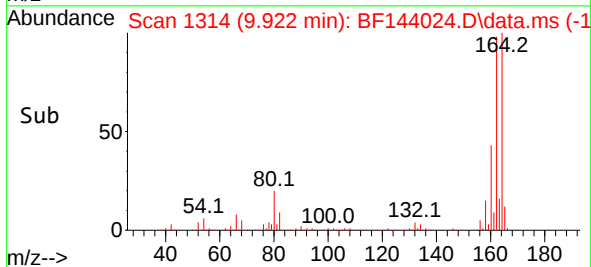
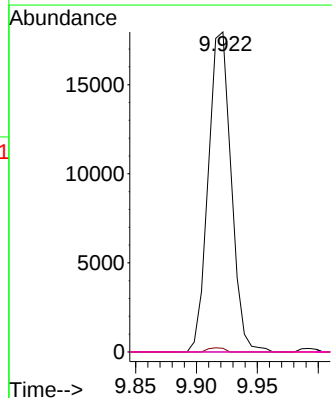
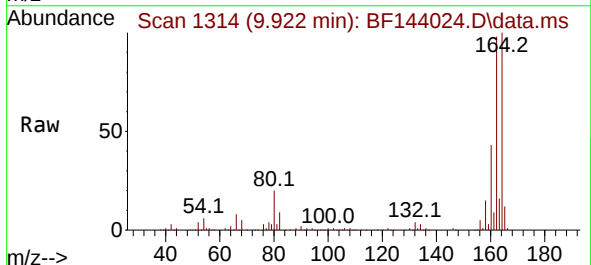
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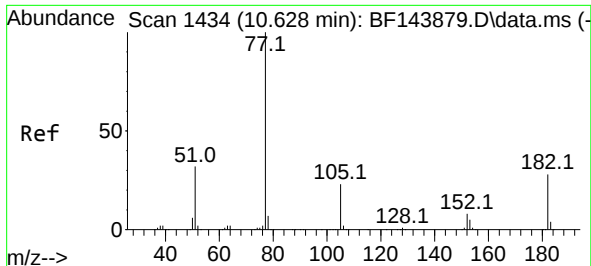
Tgt Ion:165 Resp: 23604
Ion Ratio Lower Upper
165 100
63 1.2 47.3 70.9#
89 0.0 38.2 57.4#



#57
2,4-Dinitrotoluene
Concen: 7.753 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.194 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

Tgt Ion:165 Resp: 23604
Ion Ratio Lower Upper
165 100
63 1.2 37.2 55.8#
89 0.0 49.4 74.2#
182 0.0 2.1 3.1#

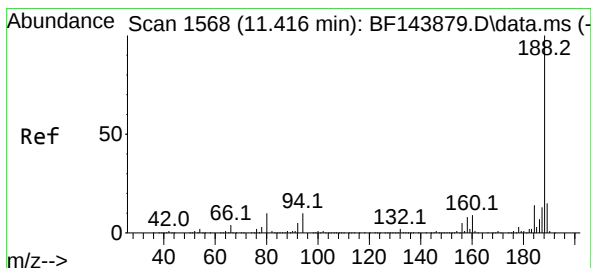
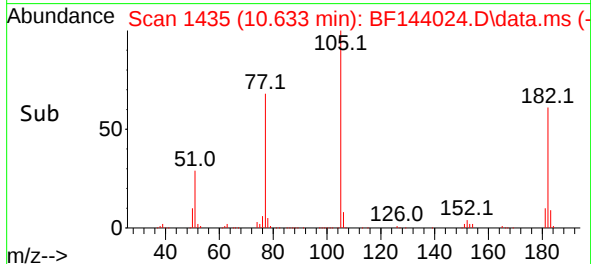
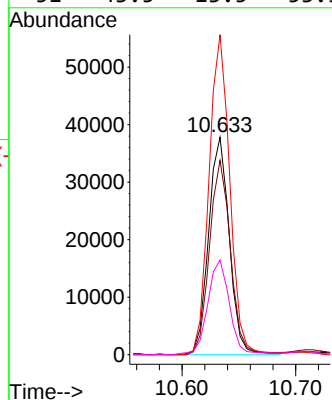
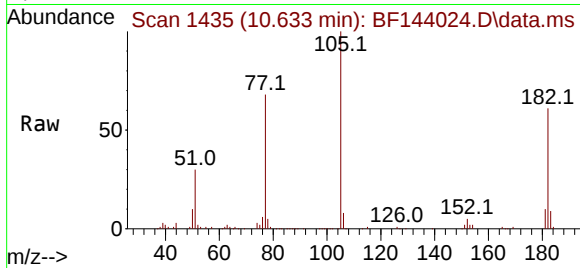




#63
Azobenzene
Concen: 4.108 ng
RT: 10.633 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

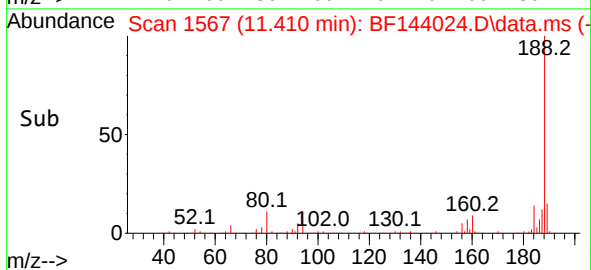
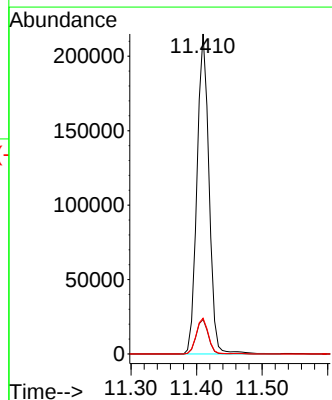
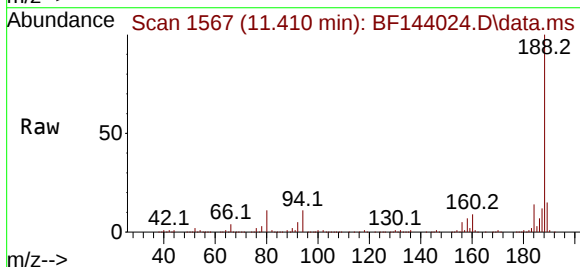
Instrument :
BNA_F
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MH-18

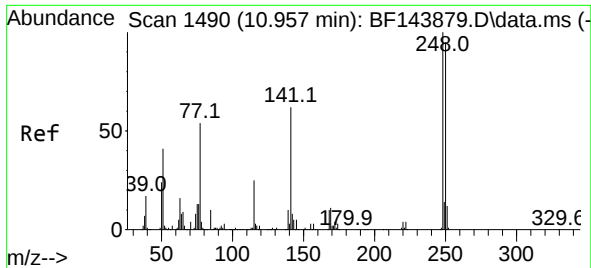
Tgt Ion: 77 Resp: 48127
Ion Ratio Lower Upper
77 100
182 89.3 7.3 47.3#
105 147.1 3.0 43.0#
51 43.5 13.5 53.5



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

Tgt Ion:188 Resp: 274797
Ion Ratio Lower Upper
188 100
94 10.8 7.8 11.6
80 11.2 7.9 11.9

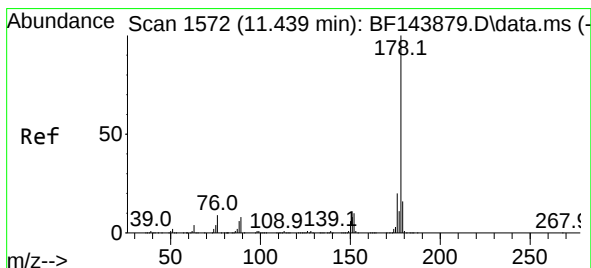
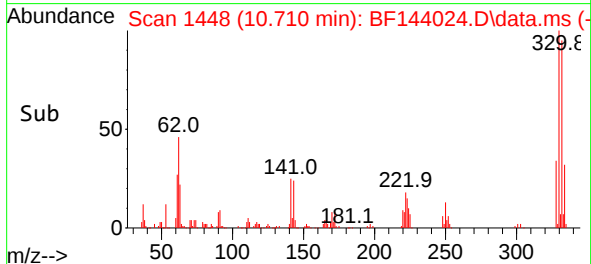
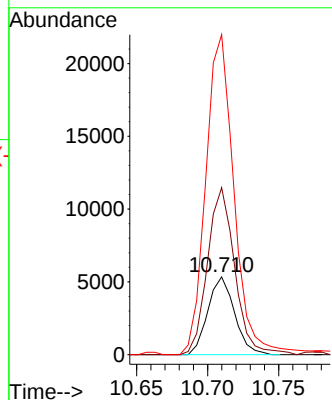
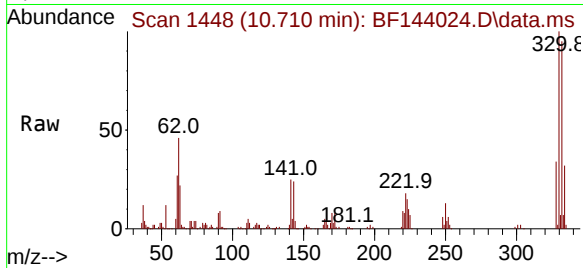




#67
4-Bromophenyl-phenylether
Concen: 2.302 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.253 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

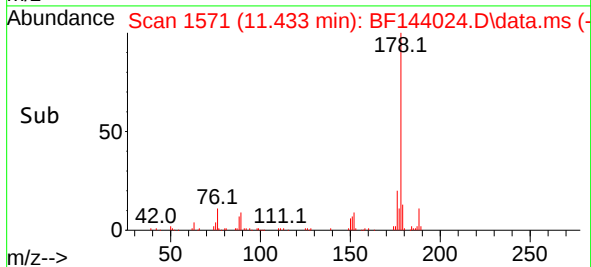
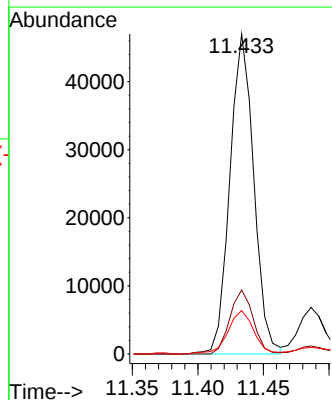
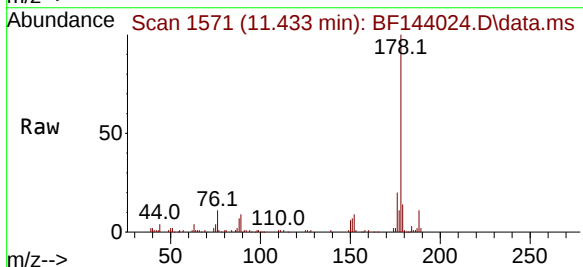
Instrument :
BNA_F
ClientSampleId :
MH-18

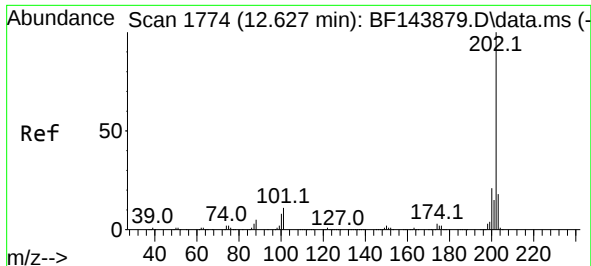
Tgt Ion:248 Resp: 6990
Ion Ratio Lower Upper
248 100
250 214.6 76.3 114.5#
141 411.1 49.7 74.5#



#71
Phenanthrene
Concen: 4.473 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

Tgt Ion:178 Resp: 59589
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 13.5 12.4 18.6

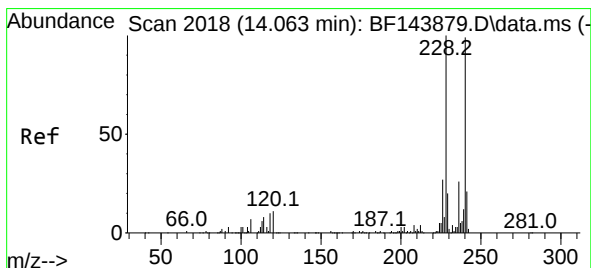
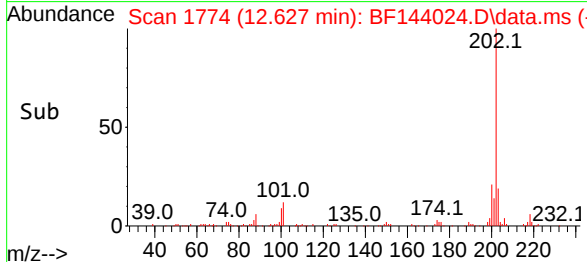
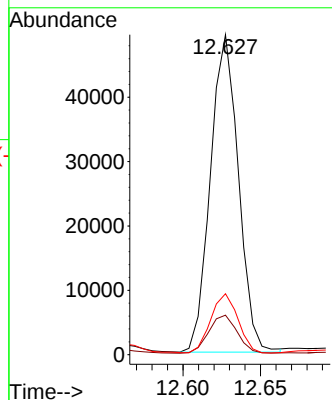
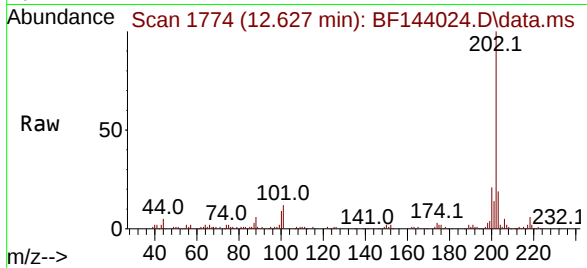




#75
Fluoranthene
Concen: 4.512 ng
RT: 12.627 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

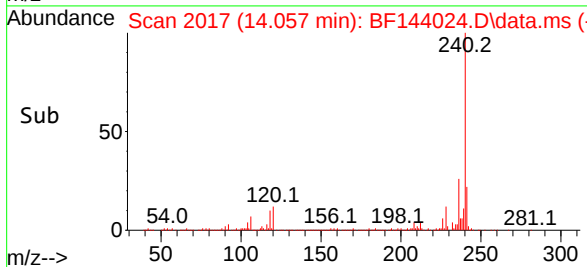
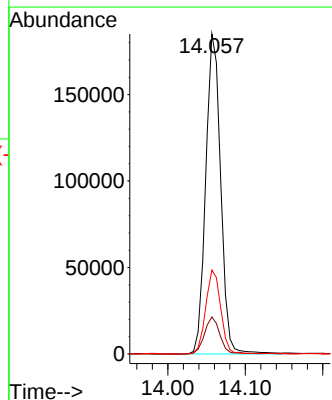
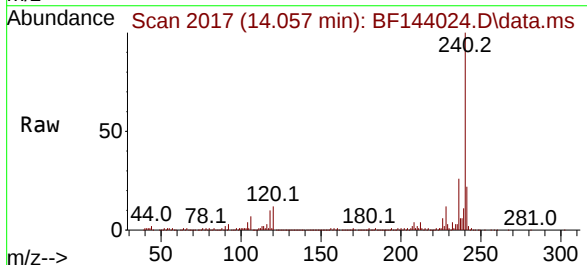
Instrument :
BNA_F
ClientSampleId :
MH-18

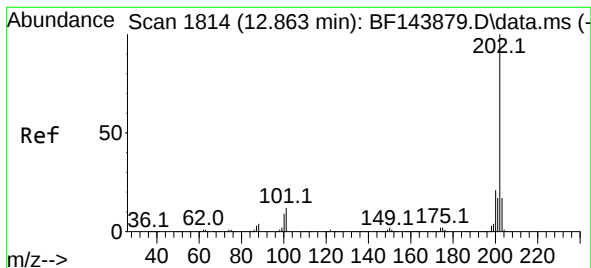
Tgt Ion:	202	Resp:	62094
Ion Ratio	Lower	Upper	
202	100		
101	12.3	0.0	30.7
203	19.0	0.0	37.8



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.011 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

Tgt Ion:	240	Resp:	248017
Ion Ratio	Lower	Upper	
240	100		
120	11.6	8.6	13.0
236	26.2	21.1	31.7





#78

Pyrene

Concen: 4.700 ng

RT: 12.857 min Scan# 1813

Delta R.T. -0.006 min

Lab File: BF144024.D

Acq: 21 Oct 2025 20:56

Instrument :

BNA_F

ClientSampleId :

MH-18

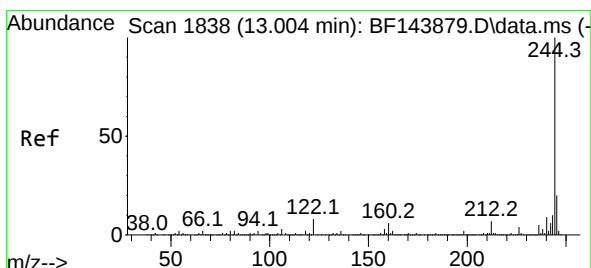
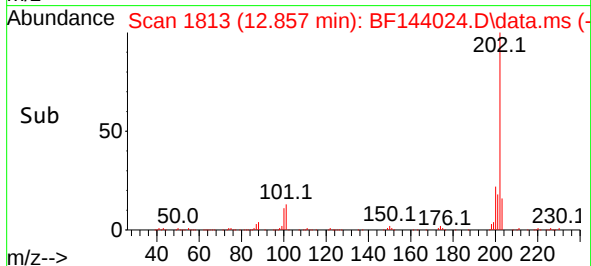
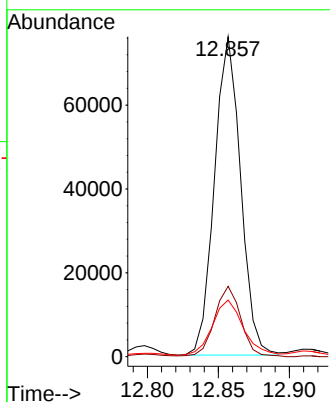
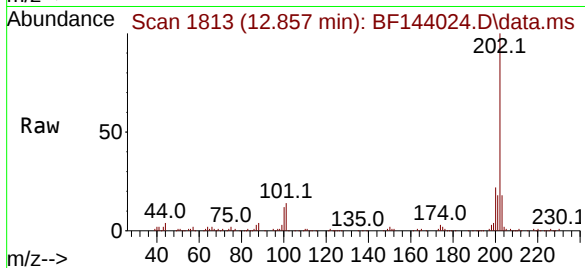
Tgt Ion:202 Resp: 97171

Ion Ratio Lower Upper

202 100

200 22.0 17.0 25.6

203 17.7 13.8 20.6



#79

Terphenyl-d14

Concen: 37.817 ng

RT: 12.998 min Scan# 1837

Delta R.T. -0.012 min

Lab File: BF144024.D

Acq: 21 Oct 2025 20:56

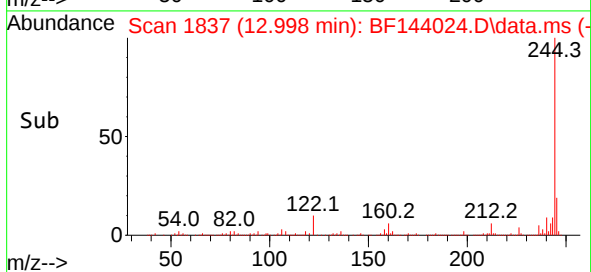
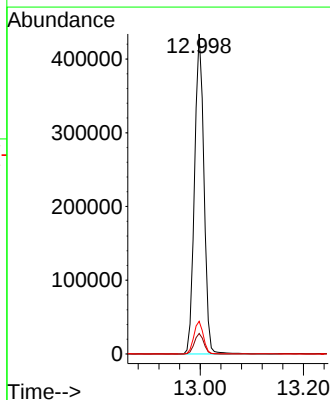
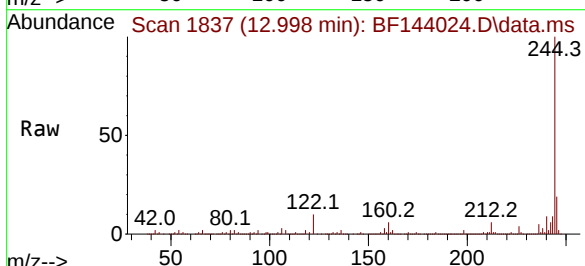
Tgt Ion:244 Resp: 548787

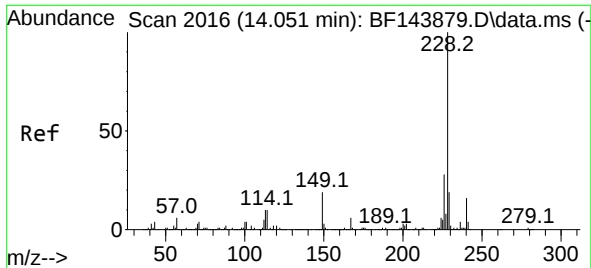
Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.0

122 10.2 6.4 9.6#

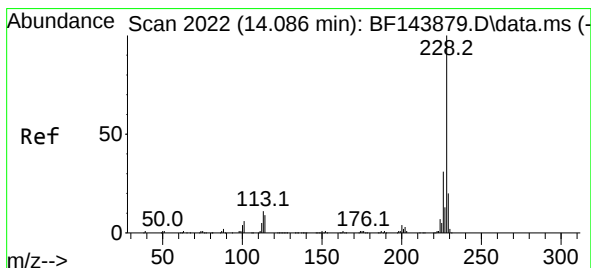
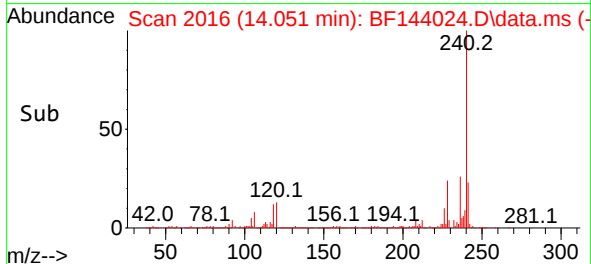
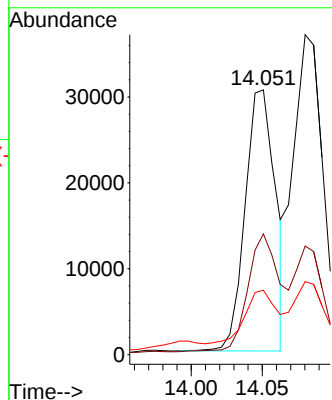
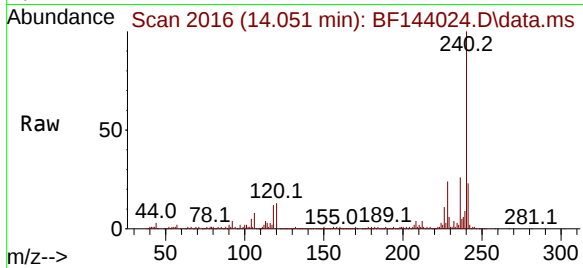




#81
Benzo(a)anthracene
Concen: 2.771 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

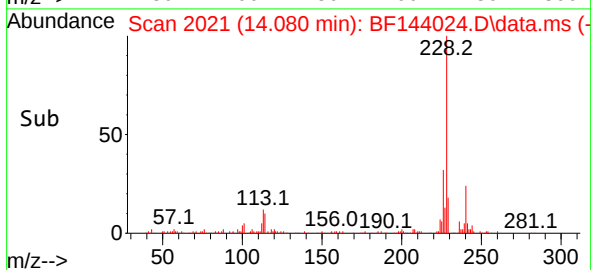
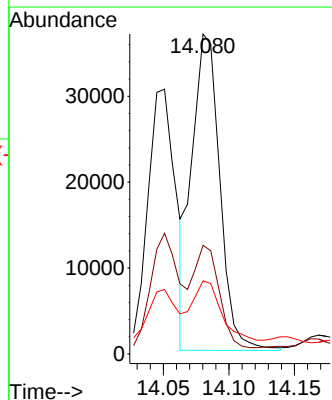
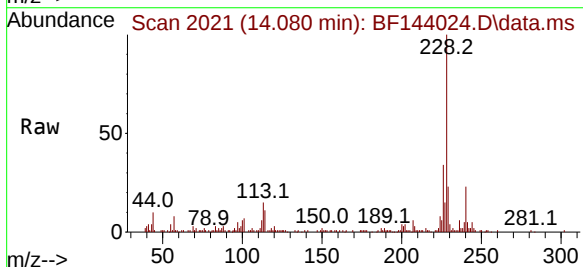
Instrument :
BNA_F
ClientSampleId :
MH-18

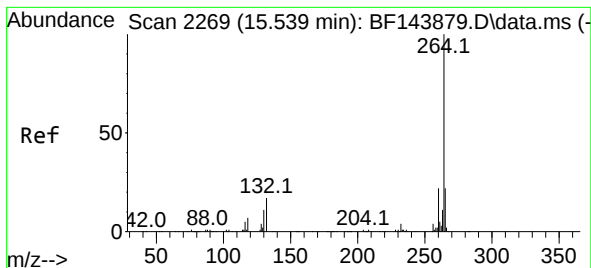
Tgt Ion:228 Resp: 44978
Ion Ratio Lower Upper
228 100
226 45.6 22.2 33.2#
229 24.4 15.6 23.4#



#83
Chrysene
Concen: 3.641 ng
RT: 14.080 min Scan# 2021
Delta R.T. -0.012 min
Lab File: BF144024.D
Acq: 21 Oct 2025 20:56

Tgt Ion:228 Resp: 54700
Ion Ratio Lower Upper
228 100
226 33.9 24.4 36.6
229 22.9 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 2196

Delta R.T. 0.000 min

Lab File: BF144024.D

Acq: 21 Oct 2025 20:56

Instrument :

BNA_F

ClientSampleId :

MH-18

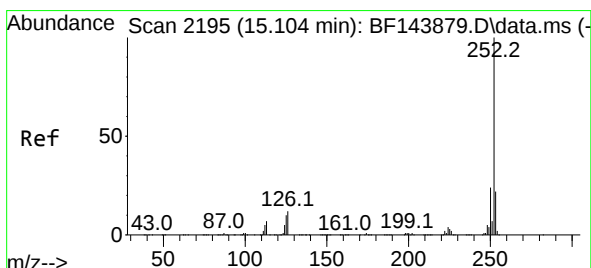
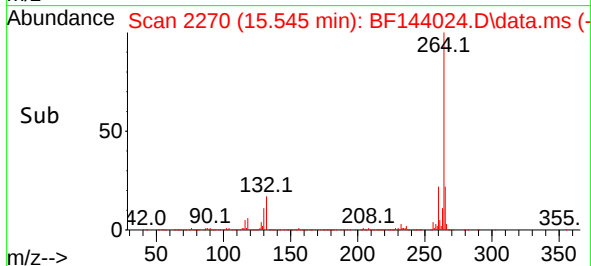
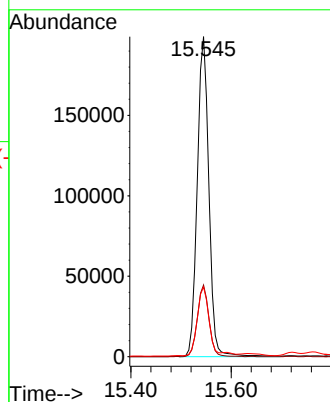
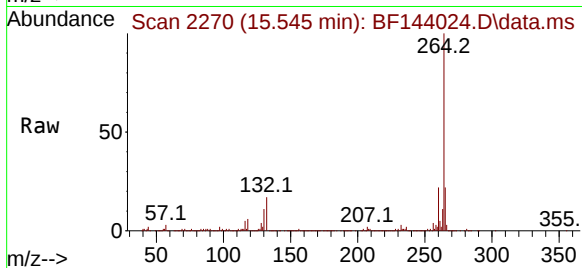
Tgt Ion:264 Resp: 319177

Ion Ratio Lower Upper

264 100

260 22.4 17.8 26.8

265 21.8 17.5 26.3



#88

Benzo(b)fluoranthene

Concen: 2.890 ng

RT: 15.110 min Scan# 2196

Delta R.T. -0.006 min

Lab File: BF144024.D

Acq: 21 Oct 2025 20:56

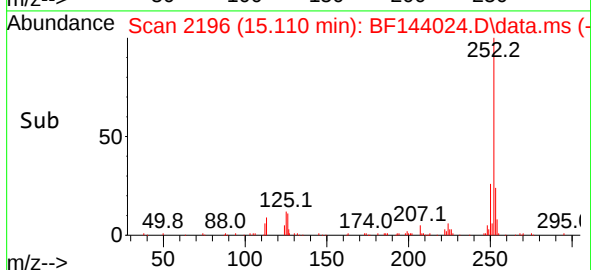
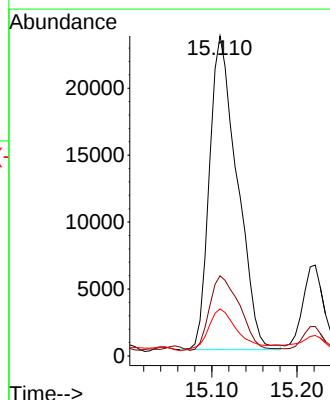
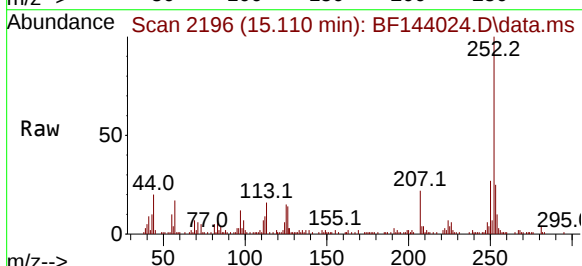
Tgt Ion:252 Resp: 52995

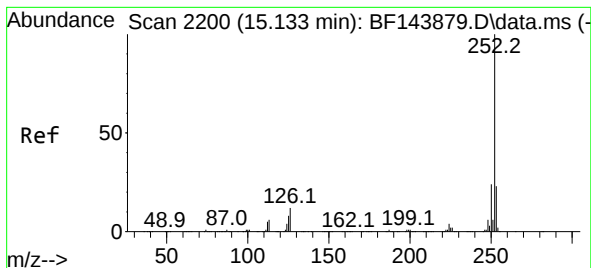
Ion Ratio Lower Upper

252 100

253 25.1 17.4 26.2

125 14.7 7.8 11.6#





#89

Benzo(k)fluoranthene

Concen: 3.124 ng

RT: 15.110 min Scan# 2196

Delta R.T. -0.035 min

Lab File: BF144024.D

Acq: 21 Oct 2025 20:56

Instrument :

BNA_F

ClientSampleId :

MH-18

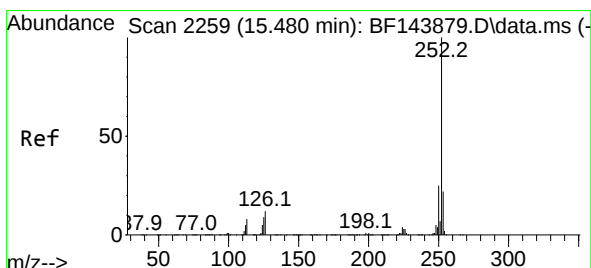
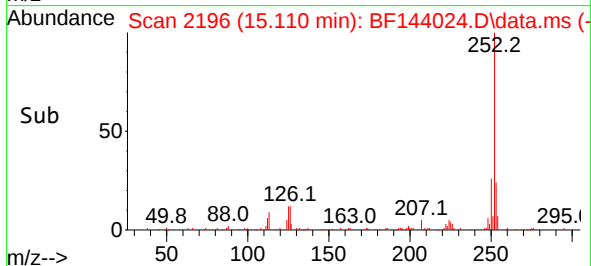
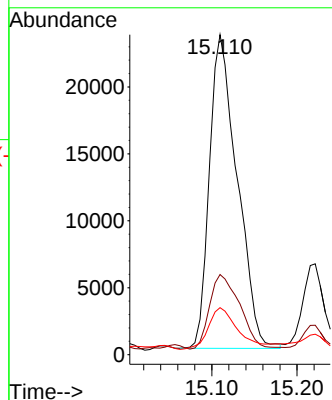
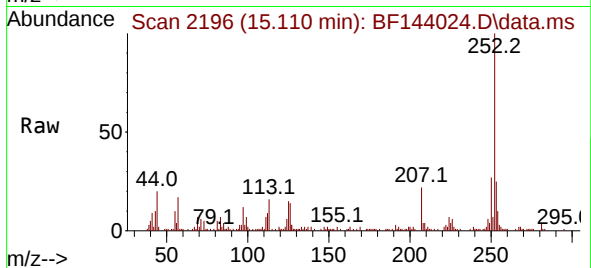
Tgt Ion:252 Resp: 52995

Ion Ratio Lower Upper

252 100

253 25.1 17.8 26.8

125 14.7 7.4 11.2#



#90

Benzo(a)pyrene

Concen: 2.354 ng

RT: 15.480 min Scan# 2259

Delta R.T. -0.006 min

Lab File: BF144024.D

Acq: 21 Oct 2025 20:56

Tgt Ion:252 Resp: 37422

Ion Ratio Lower Upper

252 100

253 21.9 17.3 25.9

125 10.6 7.0 10.4#

