

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120225\
 Data File : BF144410.D
 Acq On : 02 Dec 2025 18:49
 Operator : RC/JU
 Sample : Q3750-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FENCE WC-1

Quant Time: Dec 02 23:48:16 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)

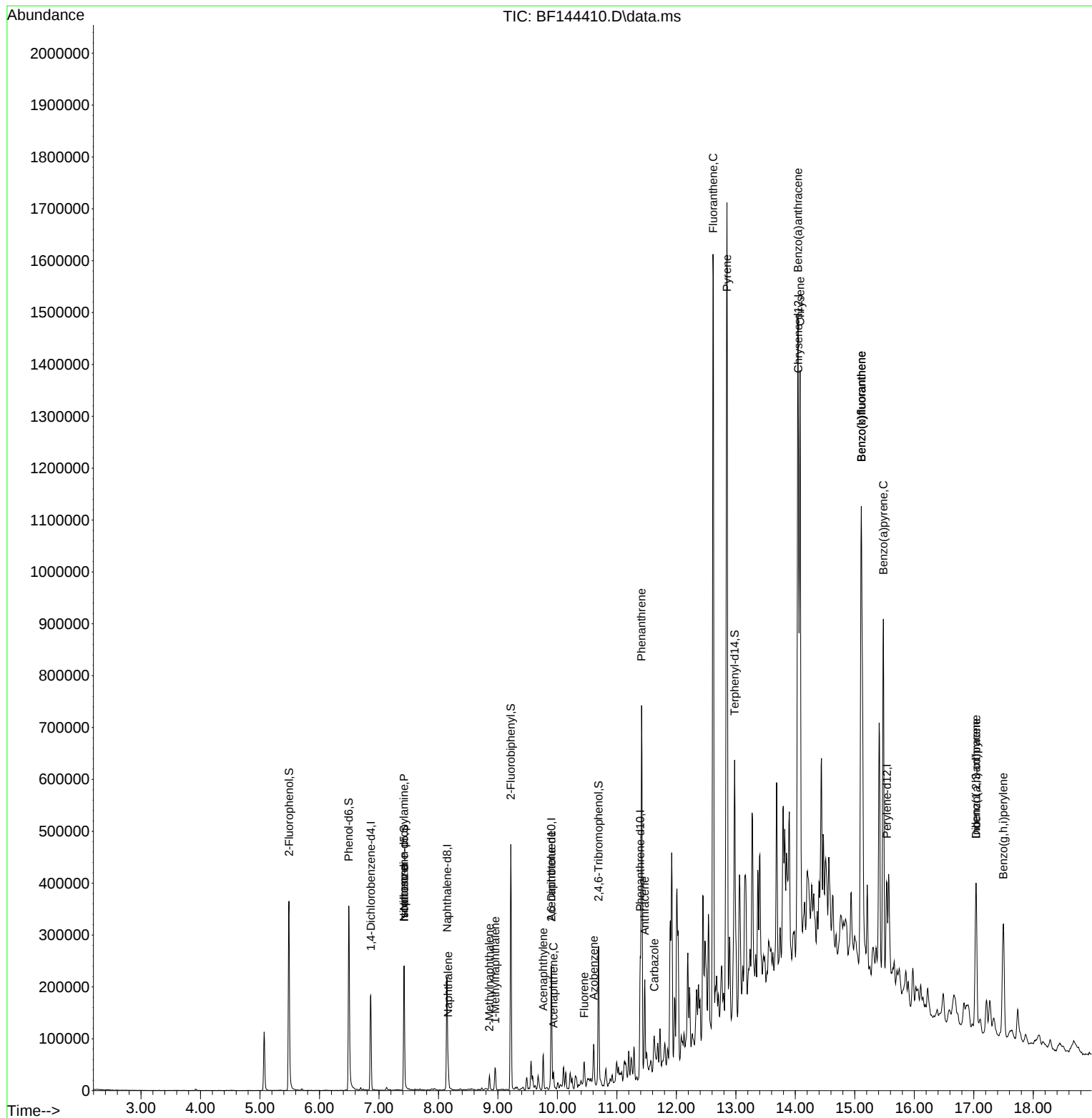
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	41910	20.000	ng	-0.01
21) Naphthalene-d8	8.145	136	146628	20.000	ng	-0.01
39) Acenaphthene-d10	9.898	164	73507	20.000	ng	-0.02
64) Phenanthrene-d10	11.392	188	122972	20.000	ng	-0.01
76) Chrysene-d12	14.051	240	112947	20.000	ng	0.00
86) Perylene-d12	15.539	264	111648	20.000	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	164706	61.499	ng	0.00
7) Phenol-d6	6.492	99	181749	59.893	ng	0.00
23) Nitrobenzene-d5	7.422	82	102528	40.385	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	50645	54.904	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	218862	43.975	ng	-0.01
79) Terphenyl-d14	12.980	244	253113	35.596	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.422	70	15322	7.670	ng	# 79
25) Isophorone	7.422	82	102527	21.350	ng	# 66
31) Naphthalene	8.163	128	26210	3.758	ng	99
37) 2-Methylnaphthalene	8.857	142	11282	2.419	ng	99
38) 1-Methylnaphthalene	8.957	142	15165	3.370	ng	96
49) Acenaphthylene	9.763	152	37554	6.296	ng	98
51) 2,6-Dinitrotoluene	9.898	165	10262	10.410	ng	# 27
52) Acenaphthene	9.933	154	9527	2.389	ng	97
58) Fluorene	10.451	166	19882	4.681	ng	# 91
63) Azobenzene	10.610	77	15468	3.702	ng	# 1
71) Phenanthrene	11.416	178	405617	66.249	ng	99
72) Anthracene	11.469	178	111377	17.890	ng	99
73) Carbazole	11.627	167	28593	5.401	ng	97
75) Fluoranthene	12.621	202	977798	154.601	ng	100
78) Pyrene	12.851	202	1051103	115.420	ng	98
81) Benzo(a)anthracene	14.045	228	788973	100.788	ng	98
83) Chrysene	14.080	228	611516	84.623	ng	94
87) Indeno(1,2,3-cd)pyrene	17.039	276	226474	28.258	ng	98
88) Benzo(b)fluoranthene	15.110	252	907183	142.922	ng	98
89) Benzo(k)fluoranthene	15.110	252	907183	152.695	ng	100
90) Benzo(a)pyrene	15.480	252	486637	83.104	ng	97
91) Dibenzo(a,h)anthracene	17.039	278	68393	10.626	ng	# 88
92) Benzo(g,h,i)perylene	17.498	276	220494	34.690	ng	97

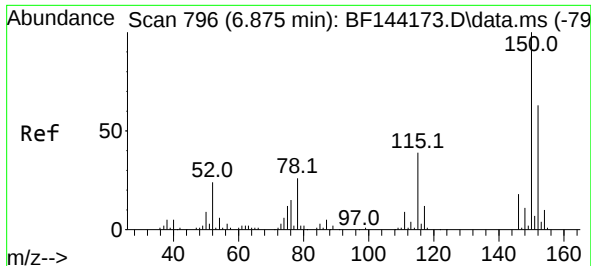
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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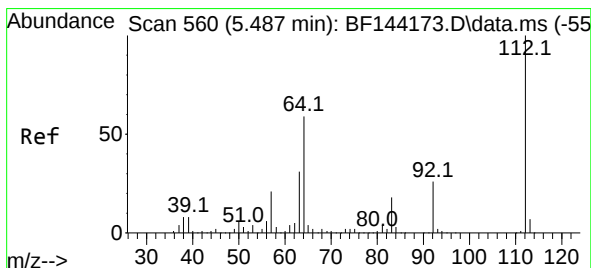
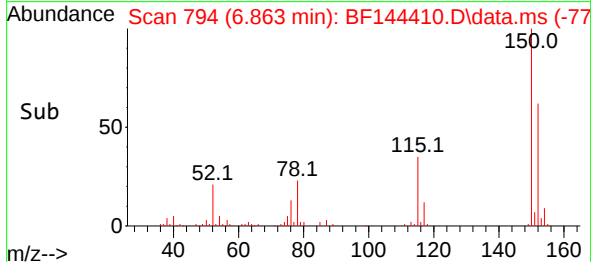
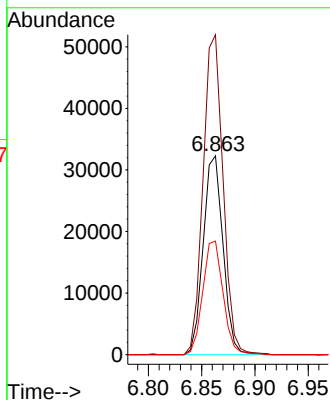
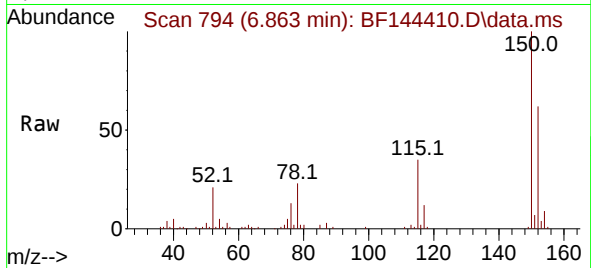




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.863 min Scan# 796
 Delta R.T. -0.012 min
 Lab File: BF144410.D
 Acq: 02 Dec 2025 18:49

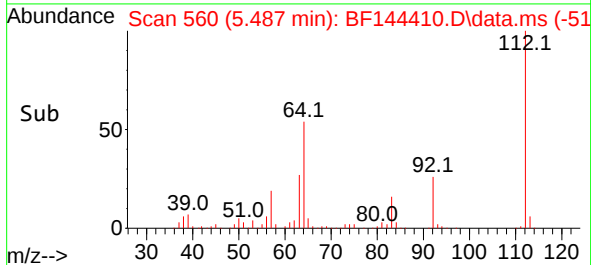
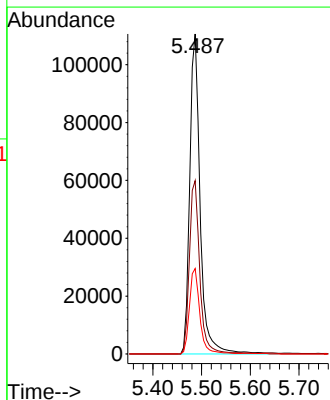
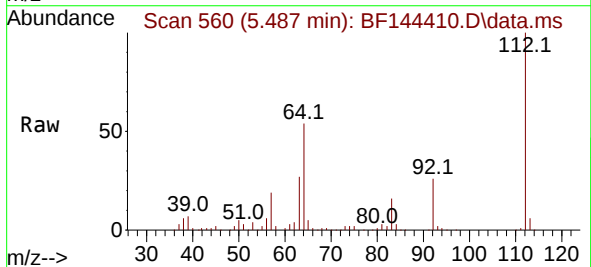
Instrument :
 BNA_F
 ClientSampleId :
 FENCE WC-1

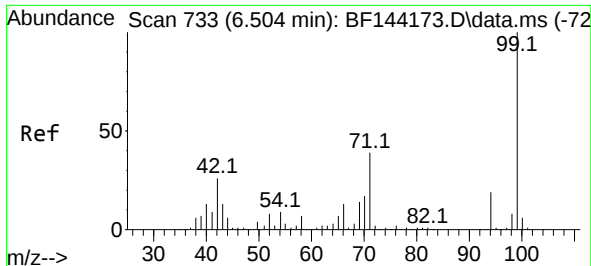
Tgt Ion:152 Resp: 41910
 Ion Ratio Lower Upper
 152 100
 150 161.0 127.4 191.0
 115 57.1 49.5 74.3



#5
 2-Fluorophenol
 Concen: 61.499 ng
 RT: 5.487 min Scan# 560
 Delta R.T. -0.006 min
 Lab File: BF144410.D
 Acq: 02 Dec 2025 18:49

Tgt Ion:112 Resp: 164706
 Ion Ratio Lower Upper
 112 100
 64 54.2 47.2 70.8
 63 26.7 24.4 36.6

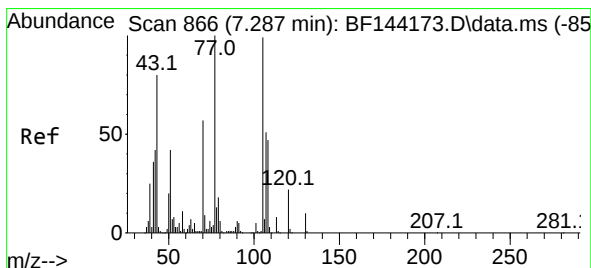
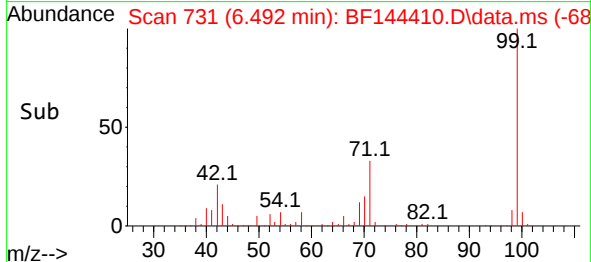
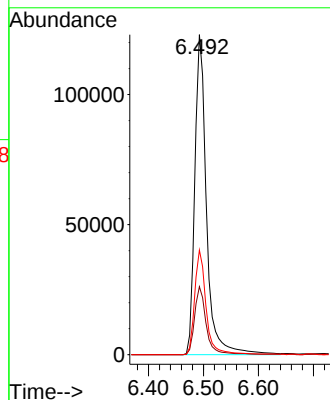
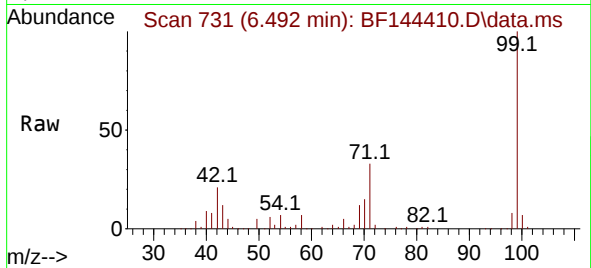




#7
Phenol-d6
Concen: 59.893 ng
RT: 6.492 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF144410.D
Acq: 02 Dec 2025 18:49

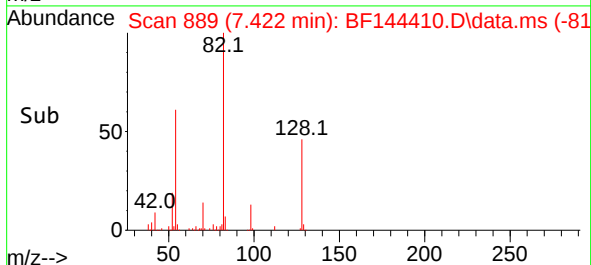
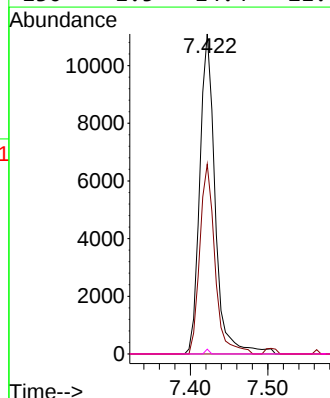
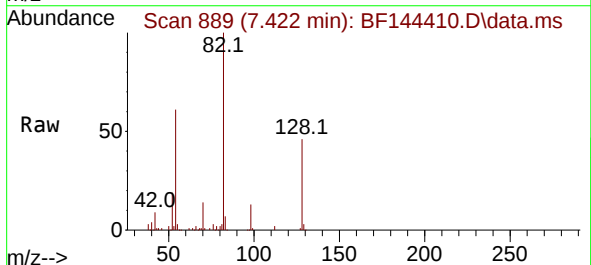
Instrument :
BNA_F
ClientSampleId :
FENCE WC-1

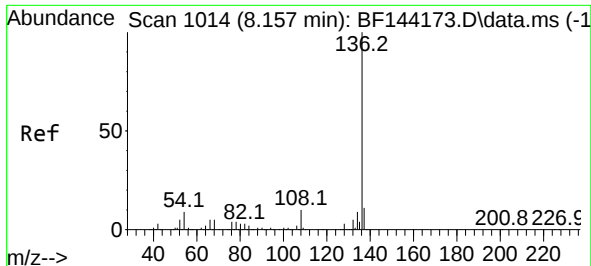
Tgt Ion: 99 Resp: 181749
Ion Ratio Lower Upper
99 100
42 21.3 20.9 31.3
71 32.7 31.4 47.2



#19
n-Nitroso-di-n-propylamine
Concen: 7.670 ng
RT: 7.422 min Scan# 889
Delta R.T. 0.147 min
Lab File: BF144410.D
Acq: 02 Dec 2025 18:49

Tgt Ion: 70 Resp: 15322
Ion Ratio Lower Upper
70 100
42 59.3 58.3 87.5
101 0.0 7.0 10.6#
130 1.5 14.4 21.6#



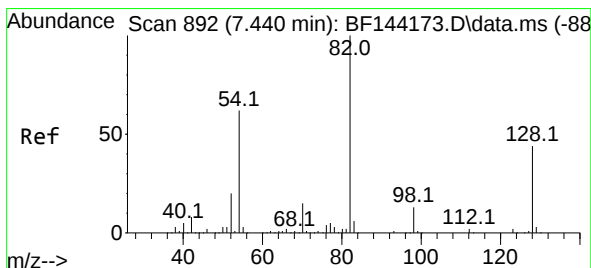
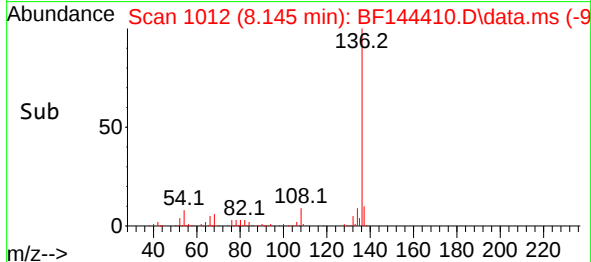
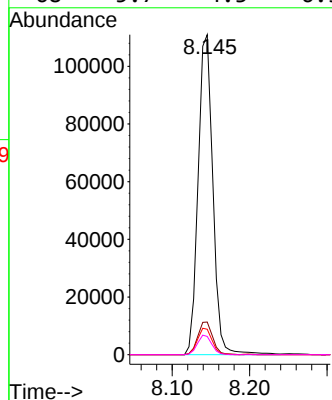
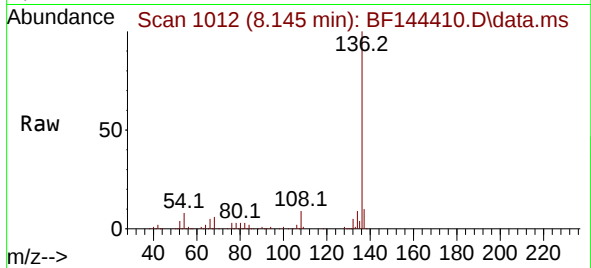


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF144410.D
Acq: 02 Dec 2025 18:49

Instrument :
BNA_F
ClientSampleId :
FENCE WC-1

Tgt Ion:136 Resp: 146628

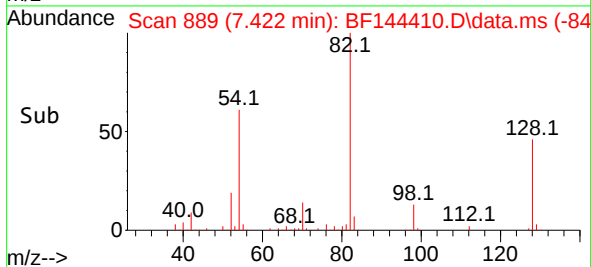
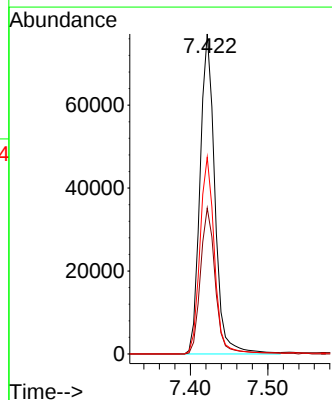
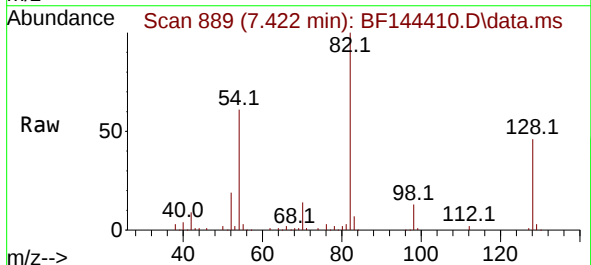
Ion	Ratio	Lower	Upper
136	100		
137	10.2	8.6	13.0
54	7.9	7.0	10.6
68	5.7	4.3	6.5

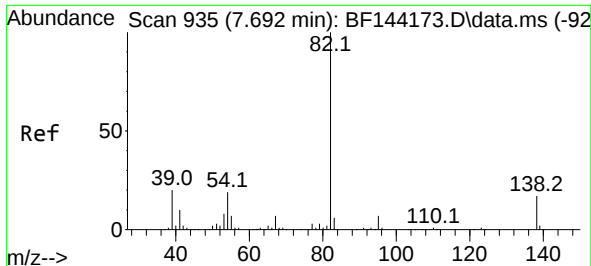


#23
Nitrobenzene-d5
Concen: 40.385 ng
RT: 7.422 min Scan# 889
Delta R.T. -0.012 min
Lab File: BF144410.D
Acq: 02 Dec 2025 18:49

Tgt Ion: 82 Resp: 102528

Ion	Ratio	Lower	Upper
82	100		
128	45.6	34.7	52.1
54	61.5	49.5	74.3

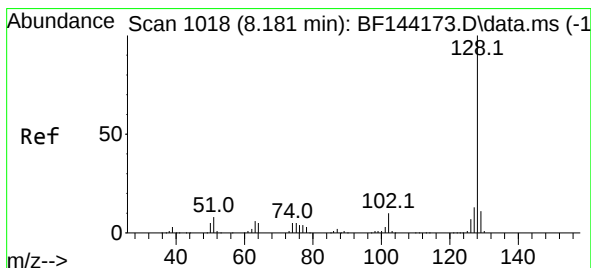
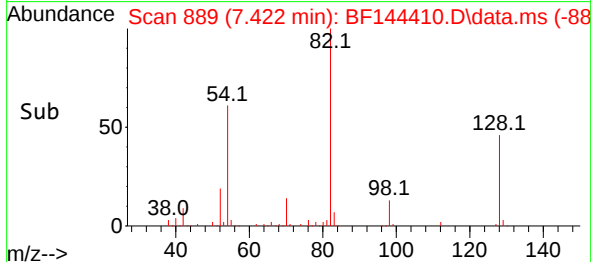
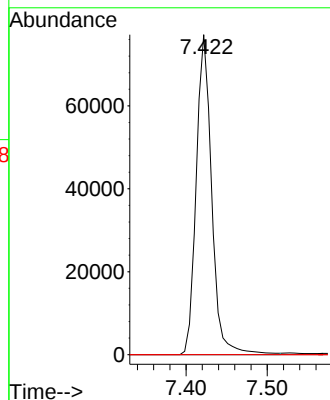
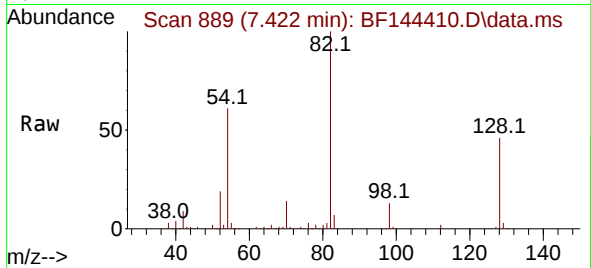




#25
Isophorone
Concen: 21.350 ng
RT: 7.422 min Scan# 81
Delta R.T. -0.265 min
Lab File: BF144410.D
Acq: 02 Dec 2025 18:49

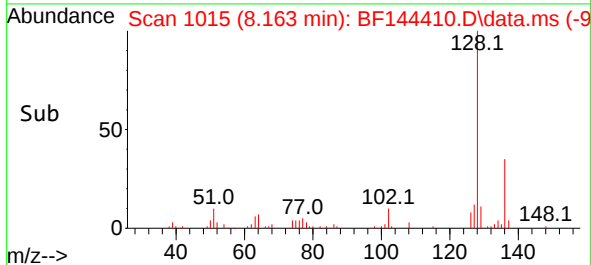
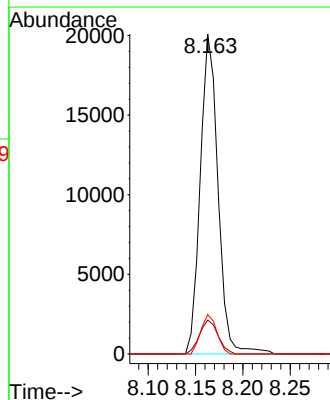
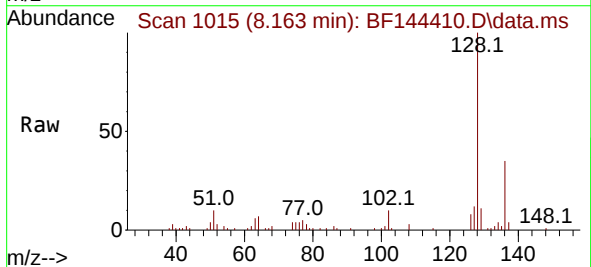
Instrument :
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ClientSampleId :
FENCE WC-1

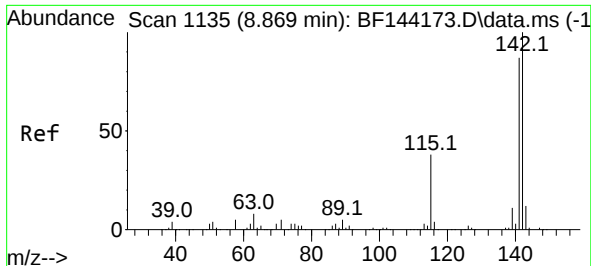
Tgt Ion: 82 Resp: 102527
Ion Ratio Lower Upper
82 100
95 0.0 5.5 8.3#
138 0.0 13.7 20.5#



#31
Naphthalene
Concen: 3.758 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF144410.D
Acq: 02 Dec 2025 18:49

Tgt Ion:128 Resp: 26210
Ion Ratio Lower Upper
128 100
129 10.6 8.9 13.3
127 12.3 10.3 15.5

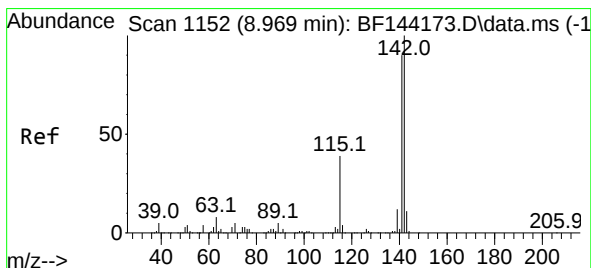
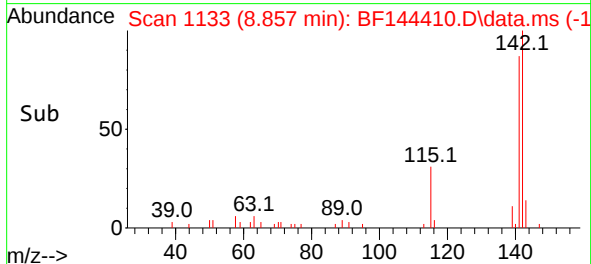
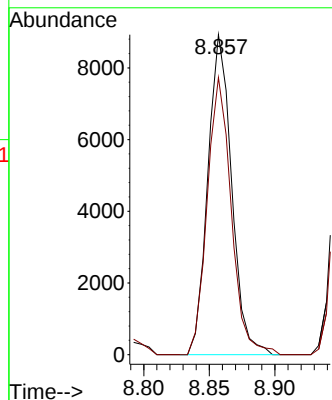
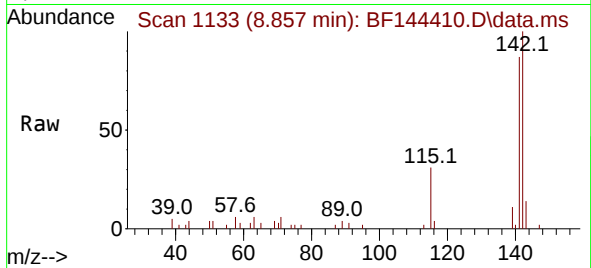




#37
2-Methylnaphthalene
Concen: 2.419 ng
RT: 8.857 min Scan# 1133
Delta R.T. -0.012 min
Lab File: BF144410.D
Acq: 02 Dec 2025 18:49

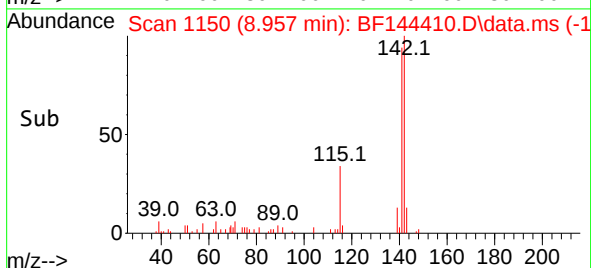
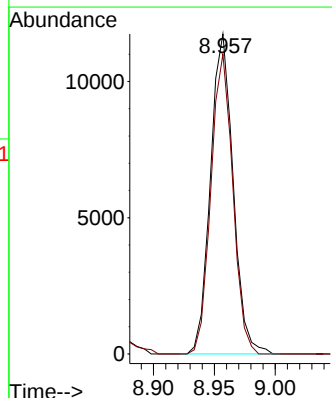
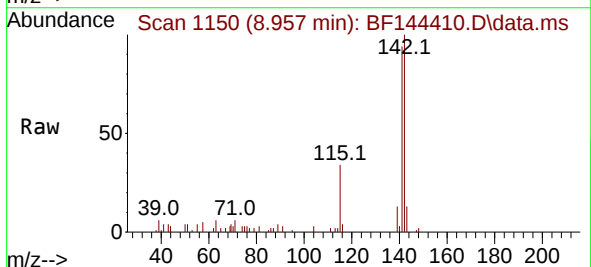
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ClientSampleId :
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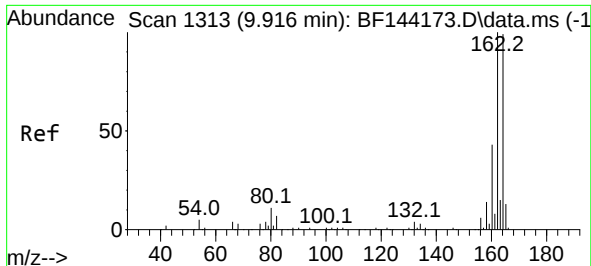
Tgt Ion:142 Resp: 11282
Ion Ratio Lower Upper
142 100
141 86.6 69.9 104.9



#38
1-Methylnaphthalene
Concen: 3.370 ng
RT: 8.957 min Scan# 1150
Delta R.T. -0.012 min
Lab File: BF144410.D
Acq: 02 Dec 2025 18:49

Tgt Ion:142 Resp: 15165
Ion Ratio Lower Upper
142 100
141 93.7 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.898 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

Instrument :

BNA_F

ClientSampleId :

FENCE WC-1

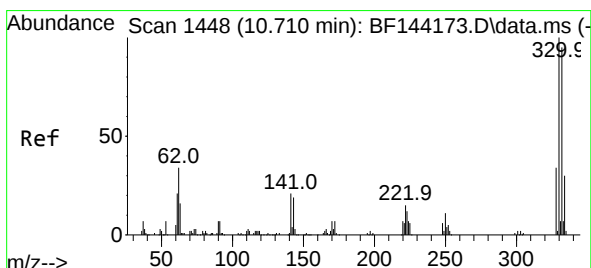
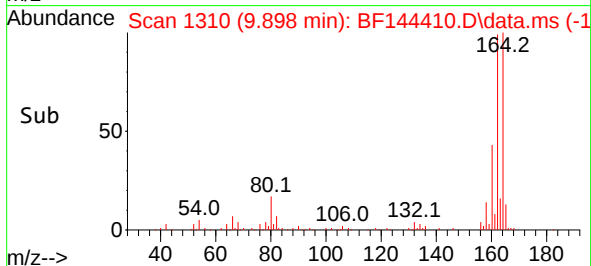
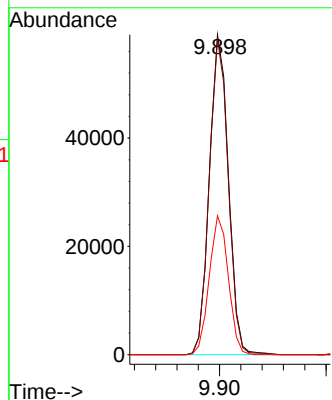
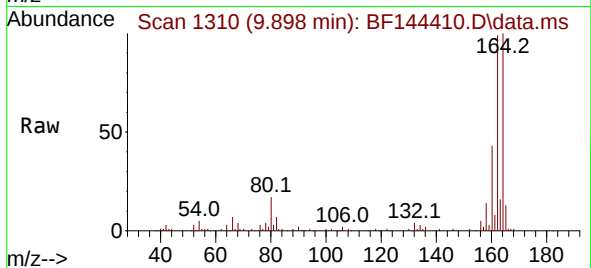
Tgt Ion:164 Resp: 73507

Ion Ratio Lower Upper

164 100

162 98.7 81.1 121.7

160 43.4 34.5 51.7



#42

2,4,6-Tribromophenol

Concen: 54.904 ng

RT: 10.692 min Scan# 1445

Delta R.T. -0.012 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

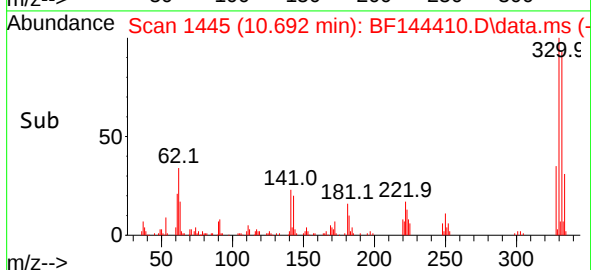
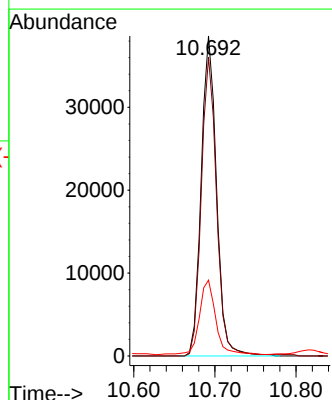
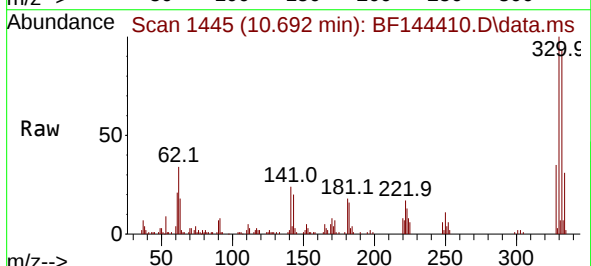
Tgt Ion:330 Resp: 50645

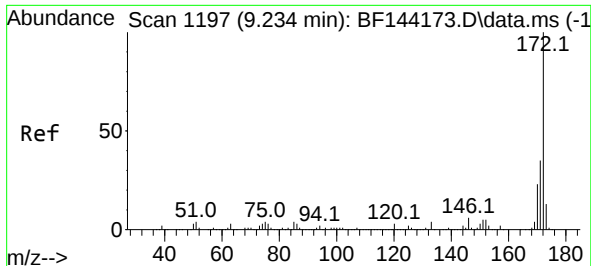
Ion Ratio Lower Upper

330 100

332 92.8 76.7 115.1

141 25.0 17.8 26.8





#45

2-Fluorobiphenyl

Concen: 43.975 ng

RT: 9.216 min Scan# 1194

Delta R.T. -0.012 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

Instrument :

BNA_F

ClientSampleId :

FENCE WC-1

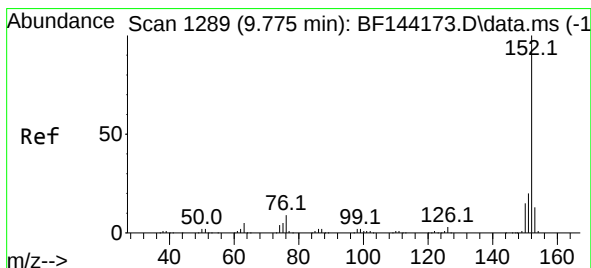
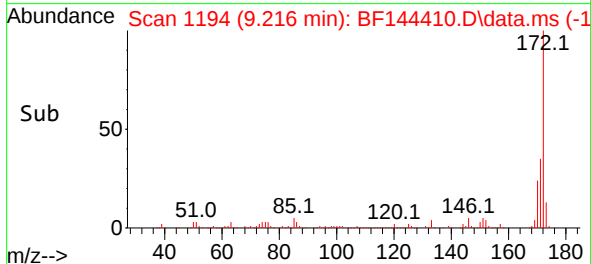
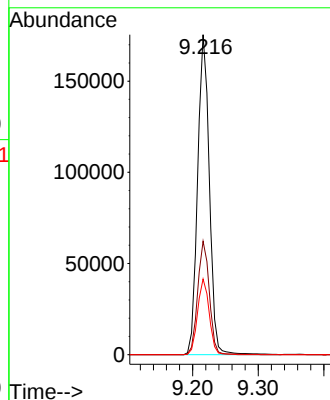
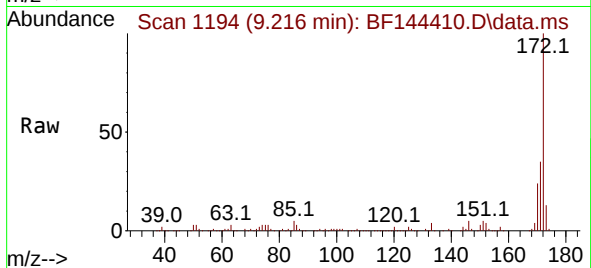
Tgt Ion:172 Resp: 218862

Ion Ratio Lower Upper

172 100

171 35.5 28.1 42.1

170 23.7 18.6 28.0



#49

Acenaphthylene

Concen: 6.296 ng

RT: 9.763 min Scan# 1287

Delta R.T. -0.012 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

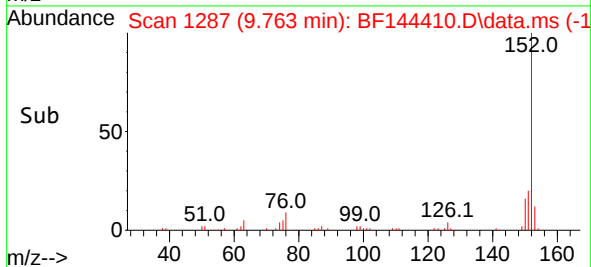
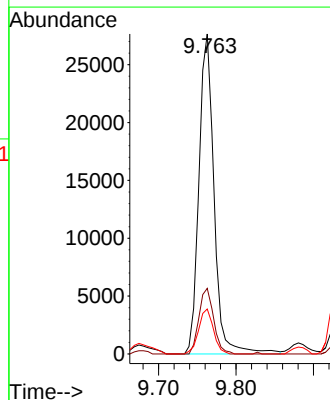
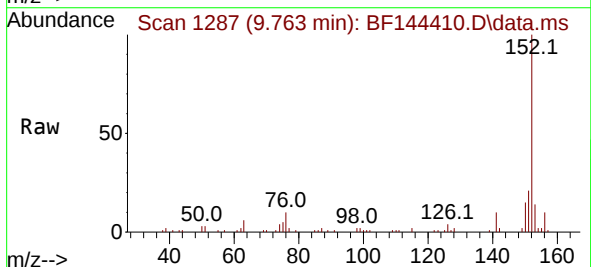
Tgt Ion:152 Resp: 37554

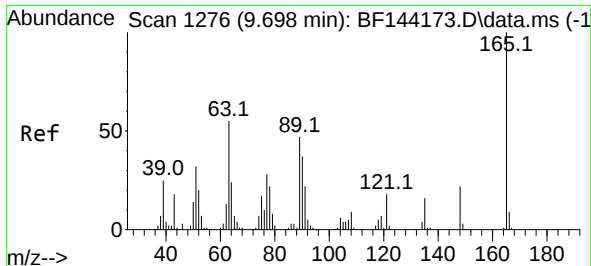
Ion Ratio Lower Upper

152 100

151 20.5 15.9 23.9

153 14.1 10.5 15.7





#51

2,6-Dinitrotoluene

Concen: 10.410 ng

RT: 9.898 min Scan# 11

Delta R.T. 0.206 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

Instrument :

BNA_F

ClientSampleId :

FENCE WC-1

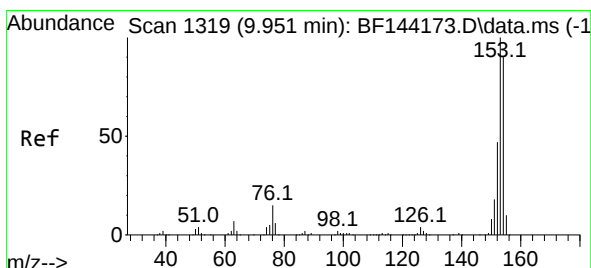
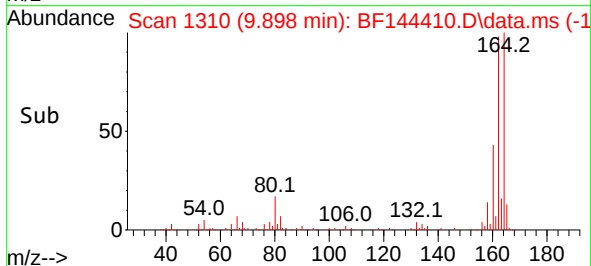
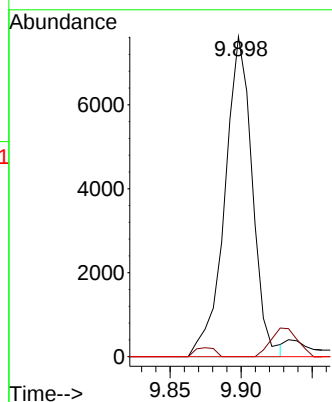
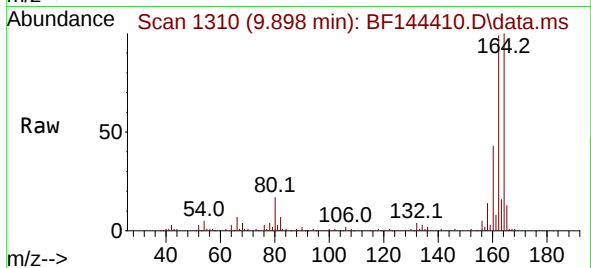
Tgt Ion:165 Resp: 10262

Ion Ratio Lower Upper

165 100

63 0.0 43.8 65.8#

89 0.0 37.5 56.3#



#52

Acenaphthene

Concen: 2.389 ng

RT: 9.933 min Scan# 1316

Delta R.T. -0.012 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

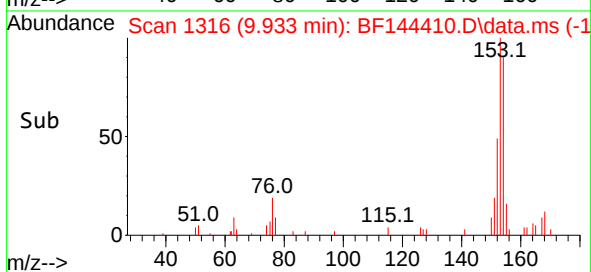
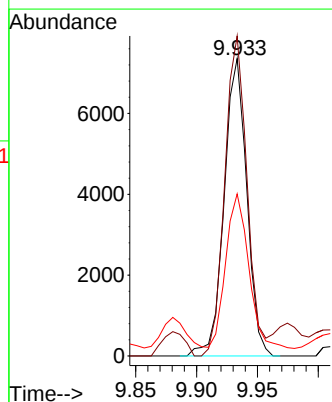
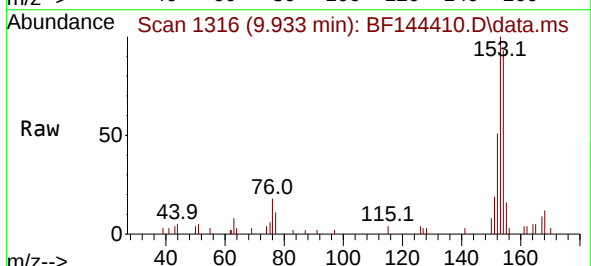
Tgt Ion:154 Resp: 9527

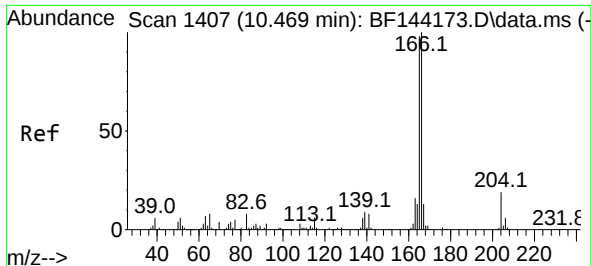
Ion Ratio Lower Upper

154 100

153 107.6 89.0 133.4

152 54.5 42.2 63.4

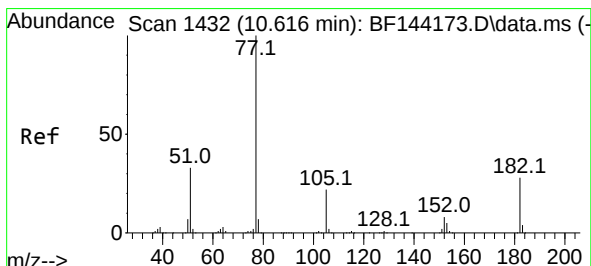
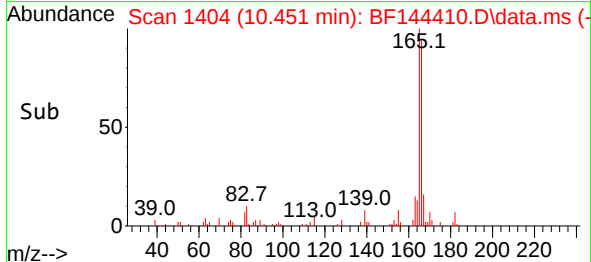
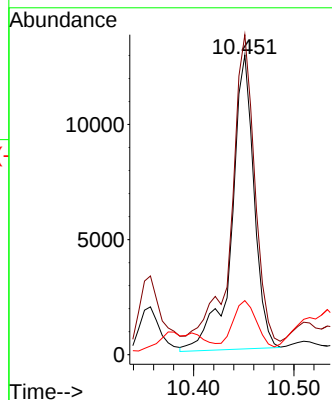
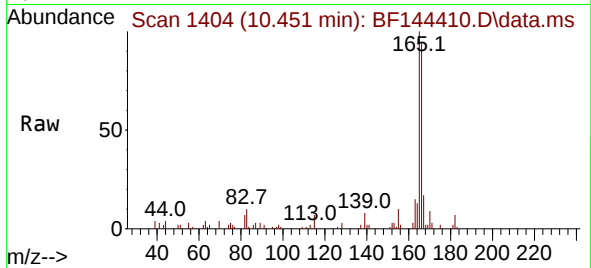




#58
Fluorene
Concen: 4.681 ng
RT: 10.451 min Scan# 1404
Delta R.T. -0.012 min
Lab File: BF144410.D
Acq: 02 Dec 2025 18:49

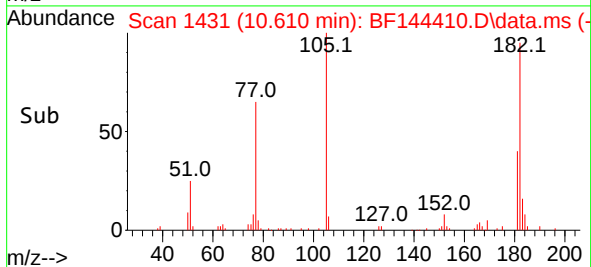
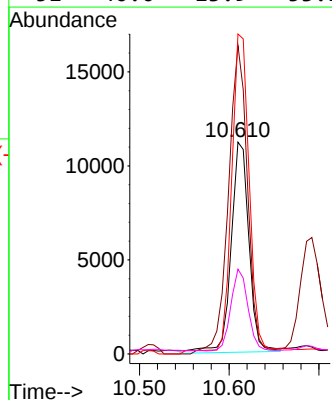
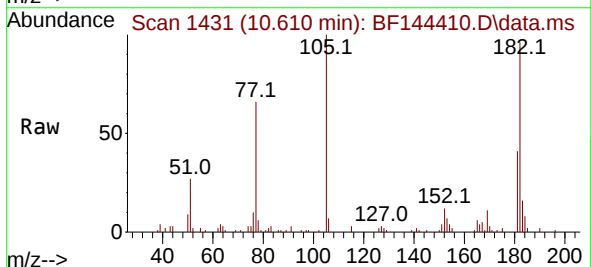
Instrument :
BNA_F
ClientSampleId :
FENCE WC-1

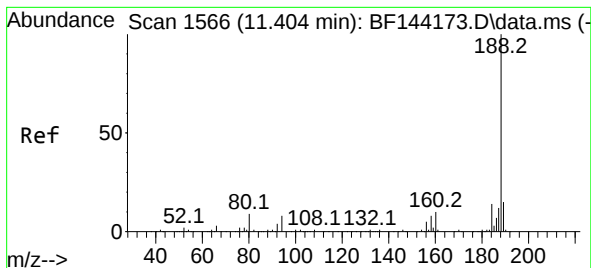
Tgt Ion:166 Resp: 19882
Ion Ratio Lower Upper
166 100
165 106.8 78.6 118.0
167 18.1 10.4 15.6#



#63
Azobenzene
Concen: 3.702 ng
RT: 10.610 min Scan# 1431
Delta R.T. -0.006 min
Lab File: BF144410.D
Acq: 02 Dec 2025 18:49

Tgt Ion: 77 Resp: 15468
Ion Ratio Lower Upper
77 100
182 145.5 8.1 48.1#
105 151.0 2.0 42.0#
51 40.0 13.9 53.9





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.392 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

Instrument :

BNA_F

ClientSampleId :

FENCE WC-1

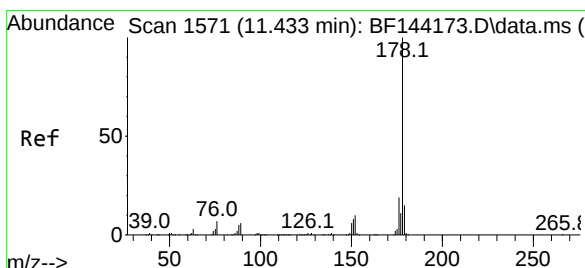
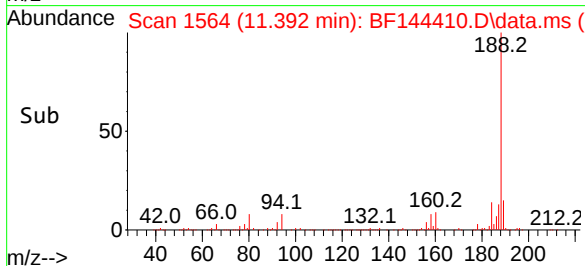
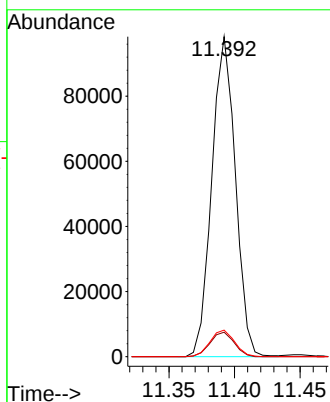
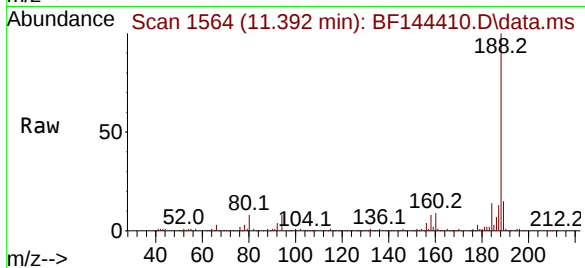
Tgt Ion:188 Resp: 122972

Ion Ratio Lower Upper

188 100

94 7.7 6.2 9.2

80 8.3 6.9 10.3



#71

Phenanthrene

Concen: 66.249 ng

RT: 11.416 min Scan# 1568

Delta R.T. -0.012 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

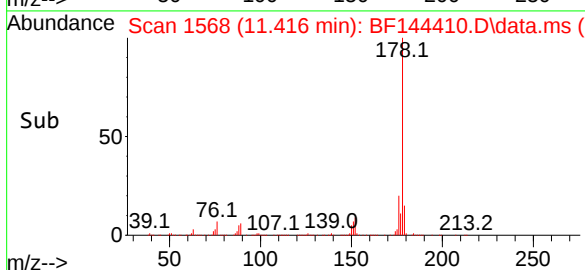
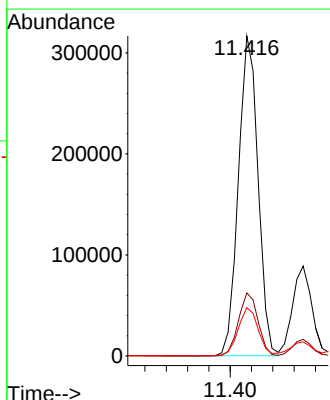
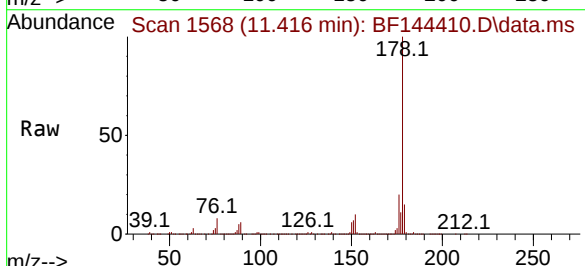
Tgt Ion:178 Resp: 405617

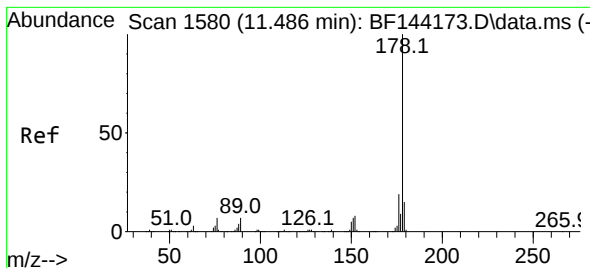
Ion Ratio Lower Upper

178 100

176 19.7 15.5 23.3

179 15.1 12.2 18.4





#72

Anthracene

Concen: 17.890 ng

RT: 11.469 min Scan# 111377

Delta R.T. -0.012 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

Instrument :

BNA_F

ClientSampleId :

FENCE WC-1

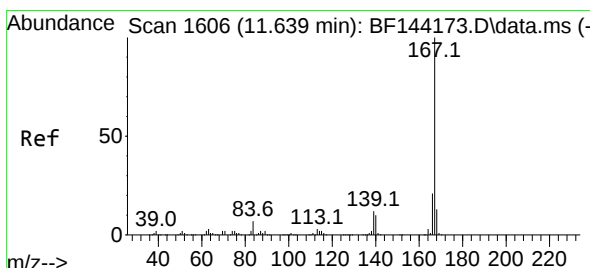
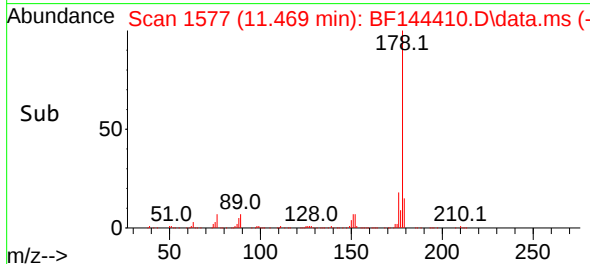
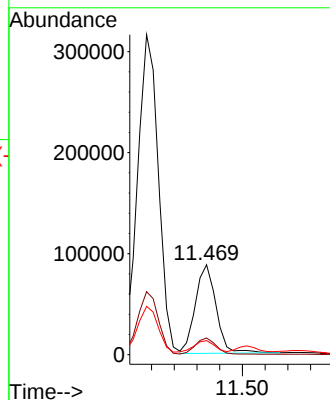
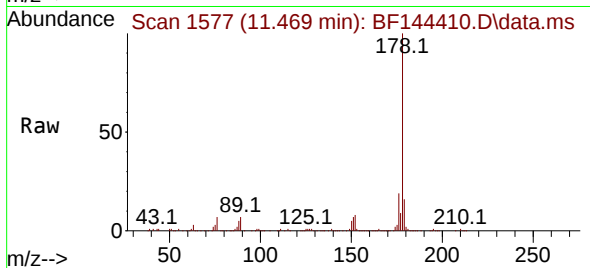
Tgt Ion:178 Resp: 111377

Ion Ratio Lower Upper

178 100

176 18.5 15.3 22.9

179 15.7 12.0 18.0



#73

Carbazole

Concen: 5.401 ng

RT: 11.627 min Scan# 1604

Delta R.T. -0.012 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

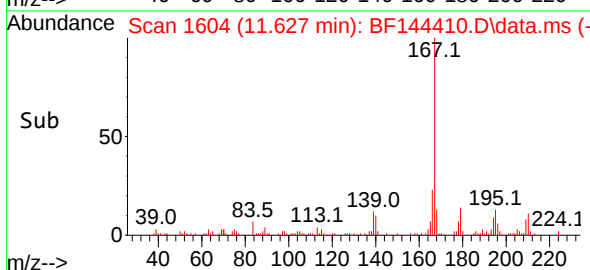
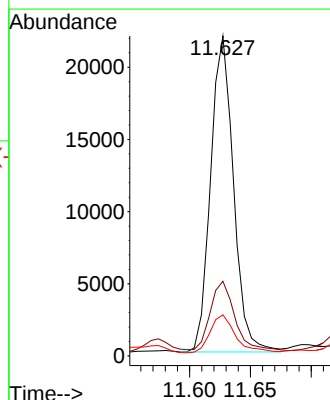
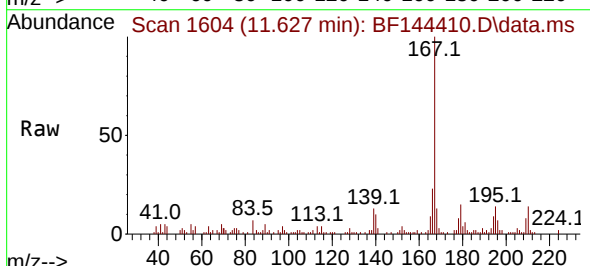
Tgt Ion:167 Resp: 28593

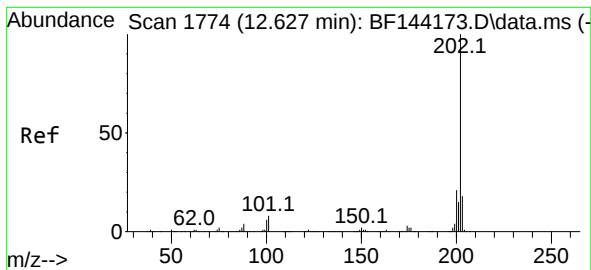
Ion Ratio Lower Upper

167 100

166 23.3 17.2 25.8

139 12.8 9.9 14.9





#75

Fluoranthene

Concen: 154.601 ng

RT: 12.621 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

Instrument :

BNA_F

ClientSampleId :

FENCE WC-1

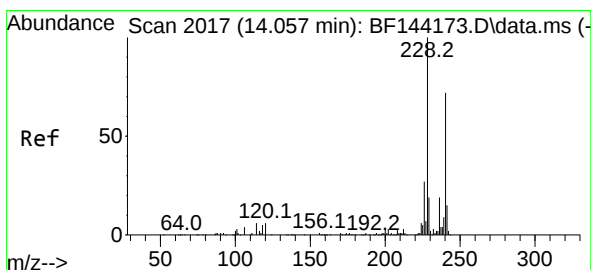
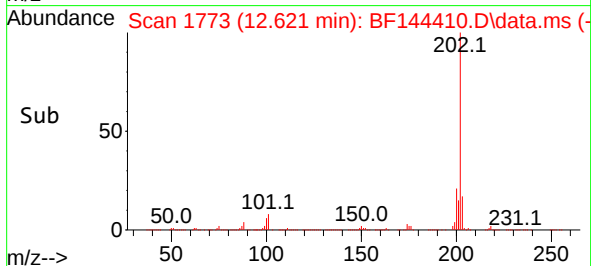
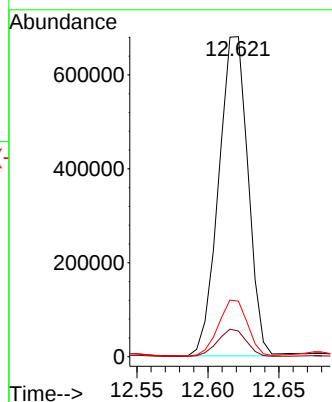
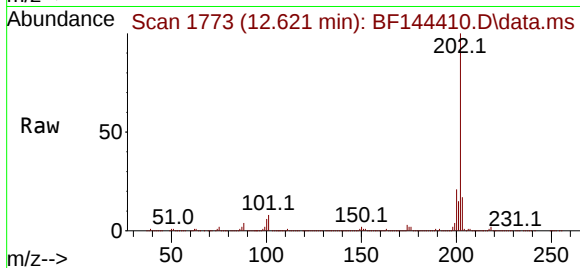
Tgt Ion:202 Resp: 977798

Ion Ratio Lower Upper

202 100

101 8.0 0.0 27.9

203 17.4 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: BF144410.D

Acq: 02 Dec 2025 18:49

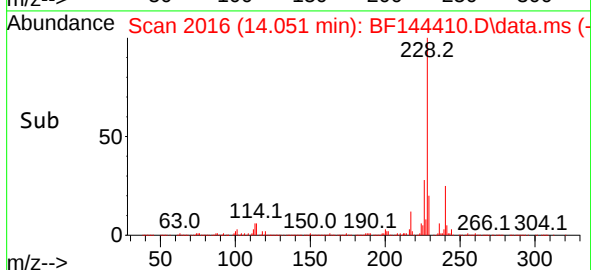
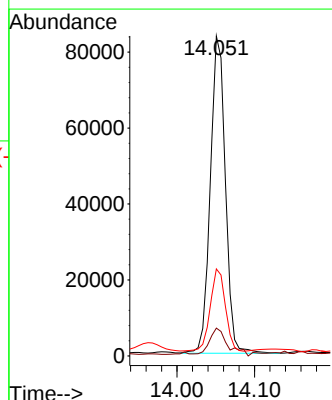
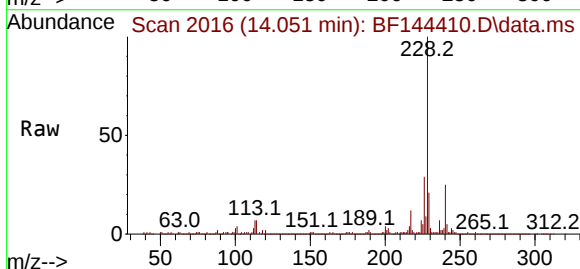
Tgt Ion:240 Resp: 112947

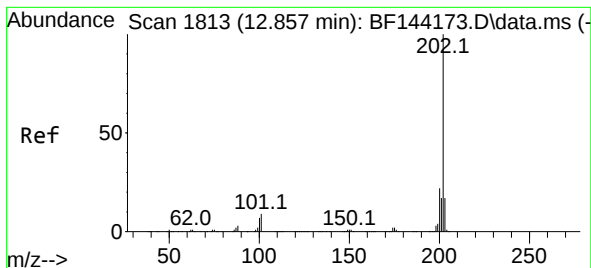
Ion Ratio Lower Upper

240 100

120 8.7 6.6 10.0

236 27.2 21.4 32.2





#78

Pyrene

Concen: 115.420 ng

RT: 12.851 min Scan# 1812

Delta R.T. -0.000 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

Instrument :

BNA_F

ClientSampleId :

FENCE WC-1

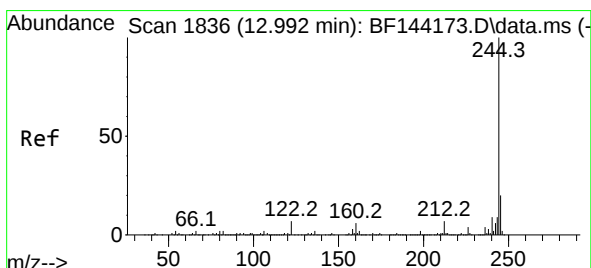
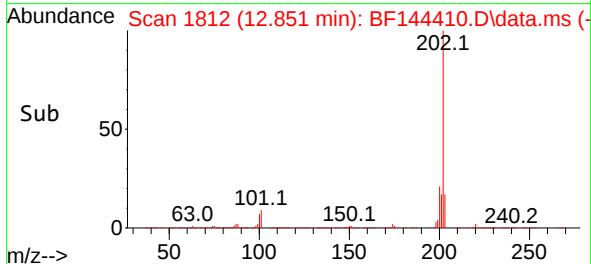
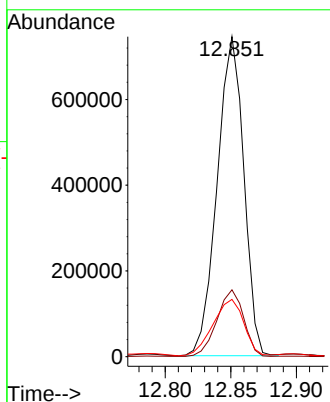
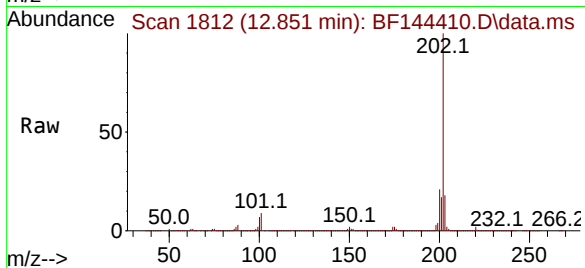
Tgt Ion:202 Resp: 1051103

Ion Ratio Lower Upper

202 100

200 20.9 17.2 25.8

203 17.9 13.7 20.5



#79

Terphenyl-d14

Concen: 35.596 ng

RT: 12.980 min Scan# 1834

Delta R.T. -0.012 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

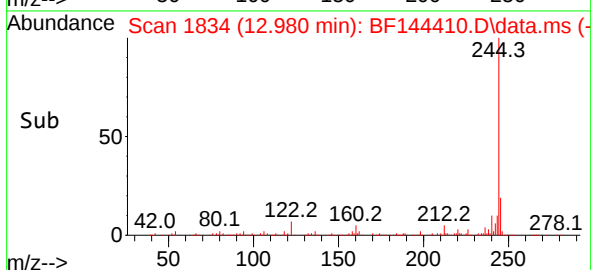
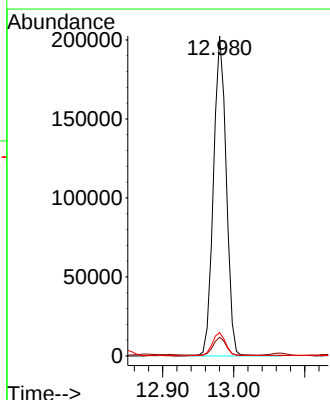
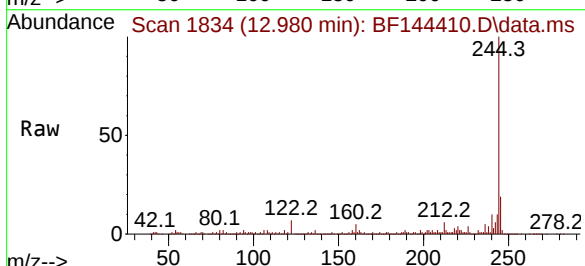
Tgt Ion:244 Resp: 253113

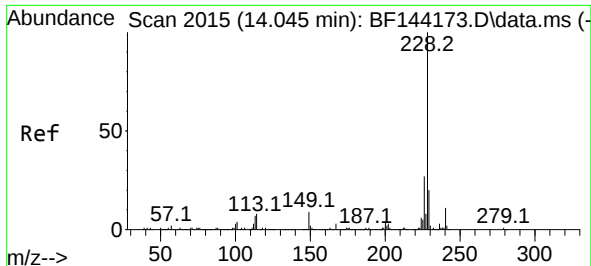
Ion Ratio Lower Upper

244 100

212 5.9 5.3 7.9

122 7.3 5.6 8.4

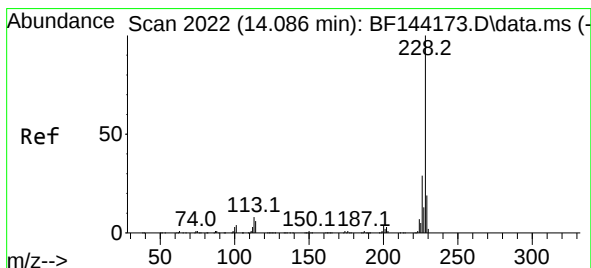
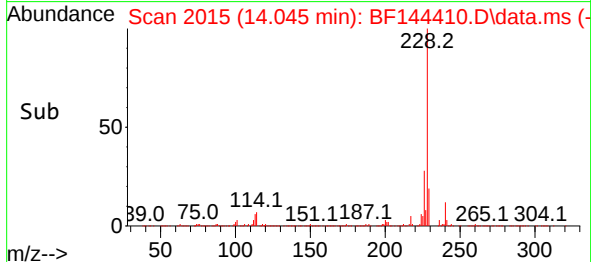
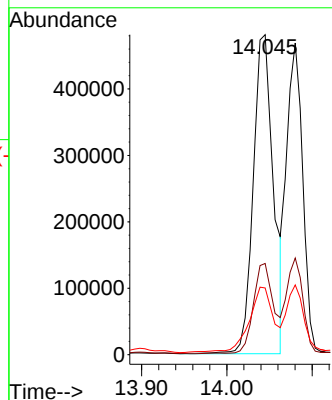
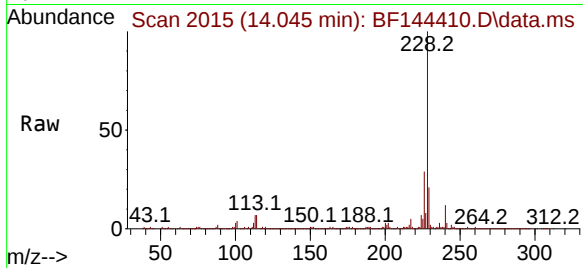




#81
Benzo(a)anthracene
Concen: 100.788 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BF144410.D
Acq: 02 Dec 2025 18:49

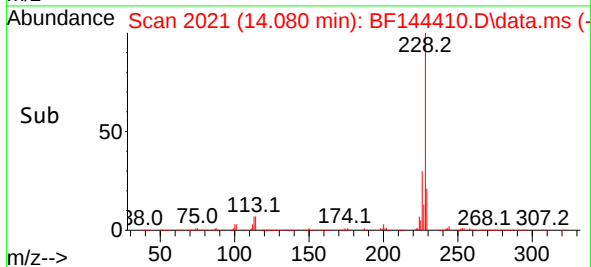
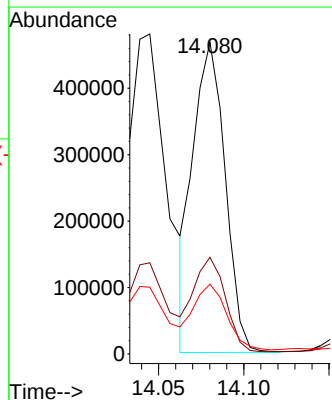
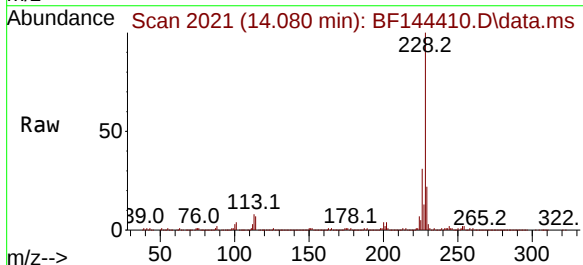
Instrument :
BNA_F
ClientSampleId :
FENCE WC-1

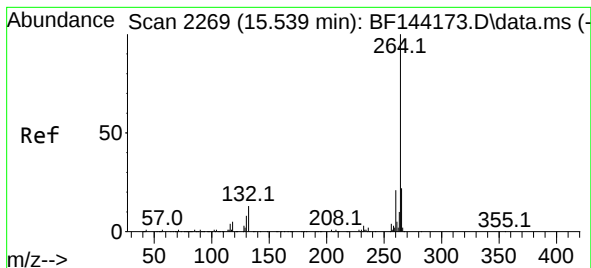
Tgt Ion:228 Resp: 788973
Ion Ratio Lower Upper
228 100
226 28.5 21.8 32.8
229 20.8 15.8 23.6



#83
Chrysene
Concen: 84.623 ng
RT: 14.080 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BF144410.D
Acq: 02 Dec 2025 18:49

Tgt Ion:228 Resp: 611516
Ion Ratio Lower Upper
228 100
226 31.0 22.9 34.3
229 22.4 15.0 22.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2116

Delta R.T. -0.000 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

Instrument :

BNA_F

ClientSampleId :

FENCE WC-1

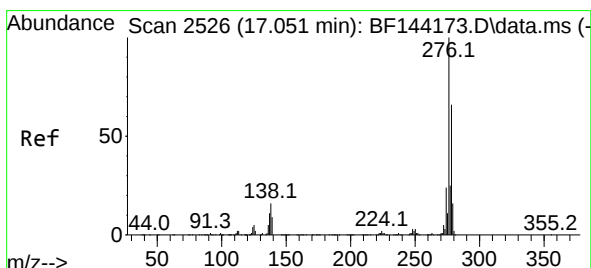
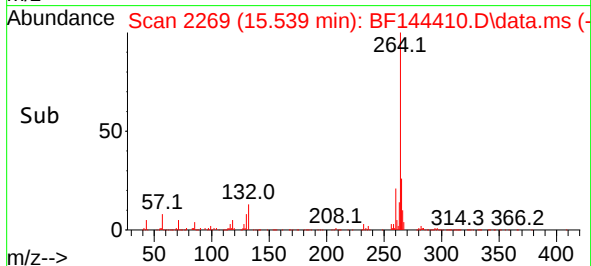
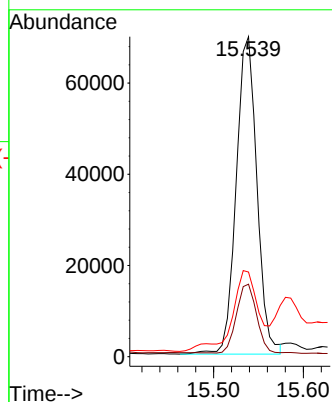
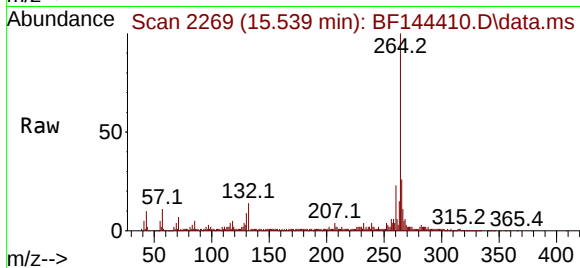
Tgt Ion:264 Resp: 111648

Ion Ratio Lower Upper

264 100

260 22.6 17.1 25.7

265 26.5 17.4 26.0#



#87

Indeno(1,2,3-cd)pyrene

Concen: 28.258 ng

RT: 17.039 min Scan# 2524

Delta R.T. 0.006 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

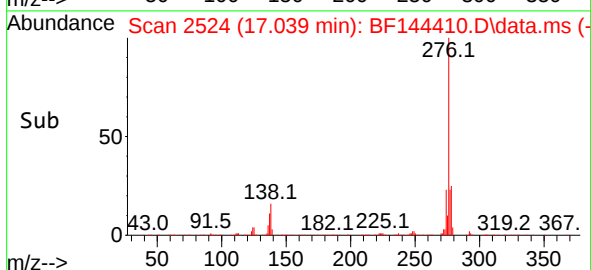
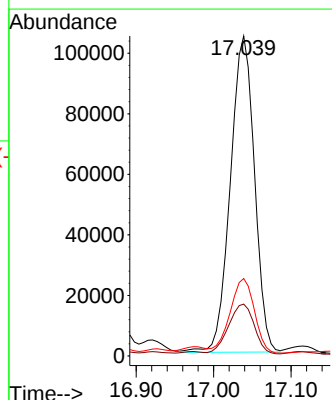
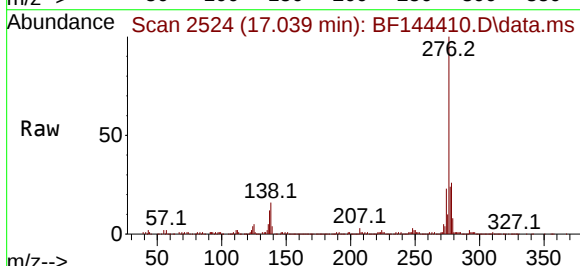
Tgt Ion:276 Resp: 226474

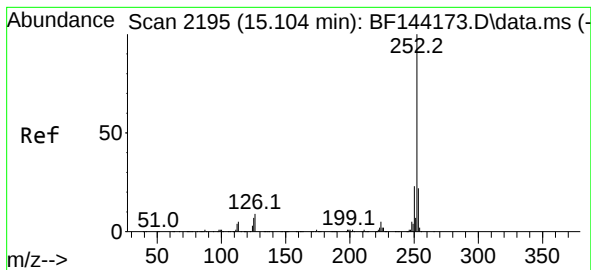
Ion Ratio Lower Upper

276 100

138 16.7 13.9 20.9

277 23.9 19.8 29.6





#88

Benzo(b)fluoranthene

Concen: 142.922 ng

RT: 15.110 min Scan# 2196

Delta R.T. 0.012 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

Instrument :

BNA_F

ClientSampleId :

FENCE WC-1

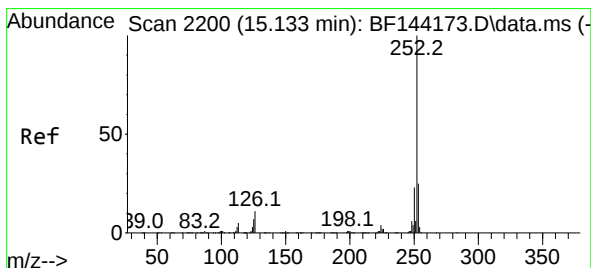
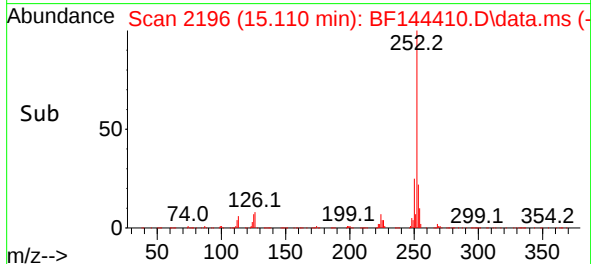
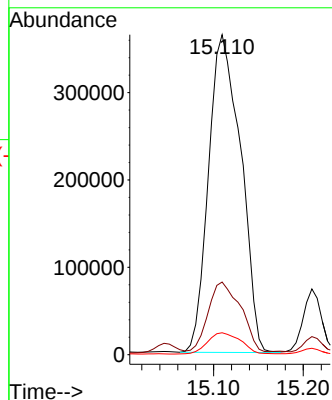
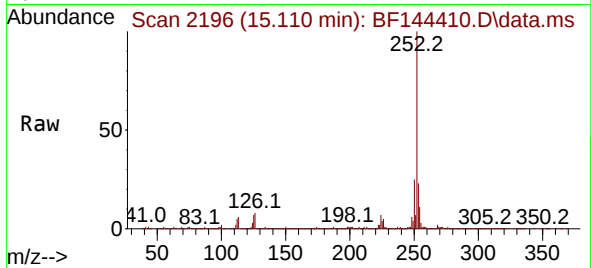
Tgt Ion:252 Resp: 907183

Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.2

125 6.9 5.3 7.9



#89

Benzo(k)fluoranthene

Concen: 152.695 ng

RT: 15.110 min Scan# 2196

Delta R.T. -0.018 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

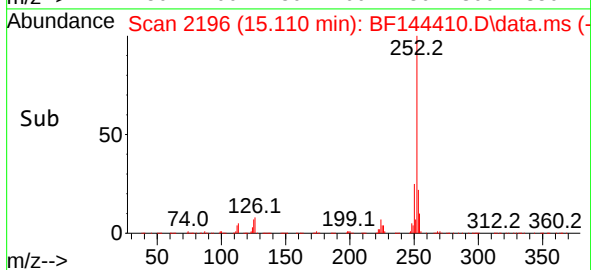
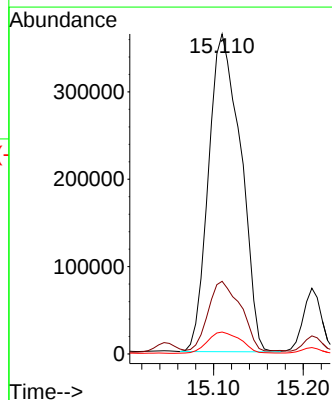
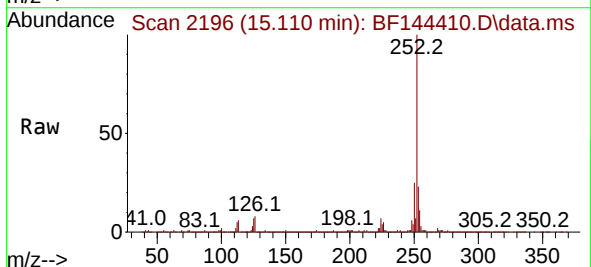
Tgt Ion:252 Resp: 907183

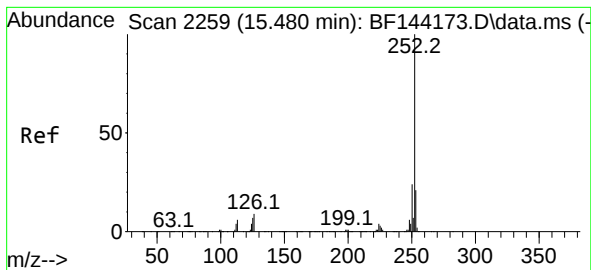
Ion Ratio Lower Upper

252 100

253 22.7 18.0 27.0

125 6.9 5.4 8.2





#90

Benzo(a)pyrene

Concen: 83.104 ng

RT: 15.480 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

Instrument :

BNA_F

ClientSampleId :

FENCE WC-1

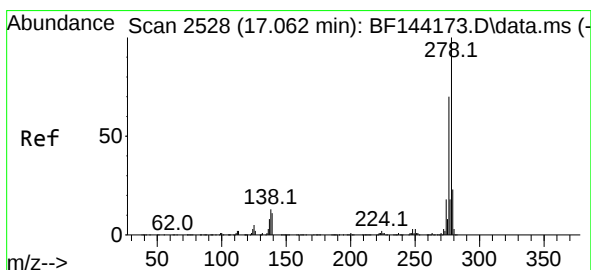
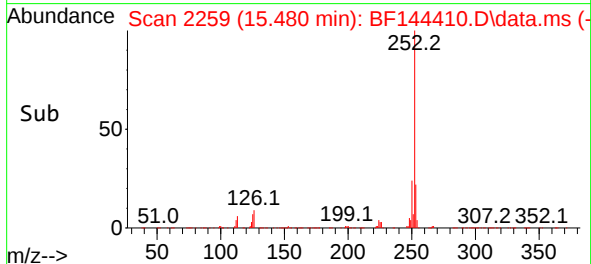
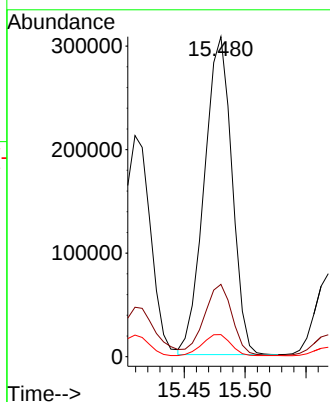
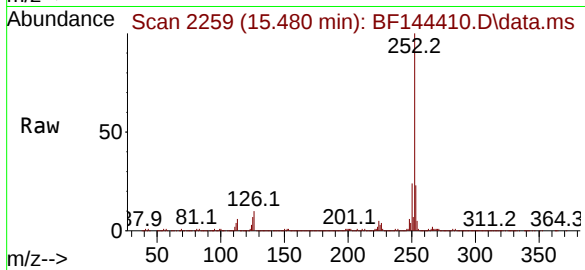
Tgt Ion:252 Resp: 486637

Ion Ratio Lower Upper

252 100

253 22.6 16.7 25.1

125 6.9 5.7 8.5



#91

Dibenzo(a,h)anthracene

Concen: 10.626 ng

RT: 17.039 min Scan# 2524

Delta R.T. -0.012 min

Lab File: BF144410.D

Acq: 02 Dec 2025 18:49

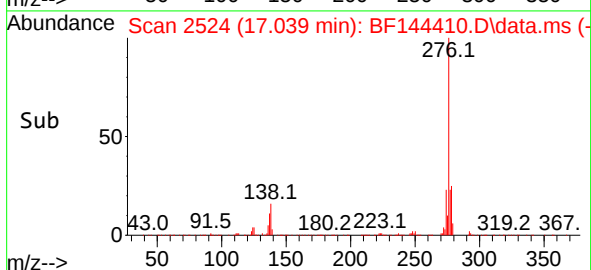
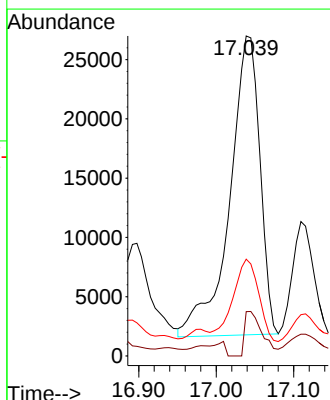
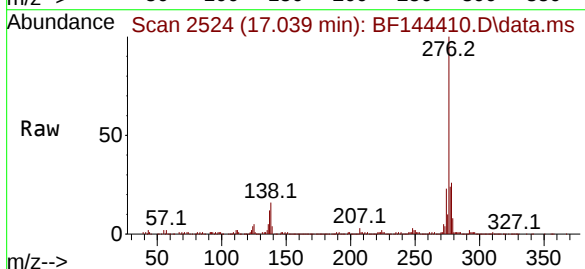
Tgt Ion:278 Resp: 68393

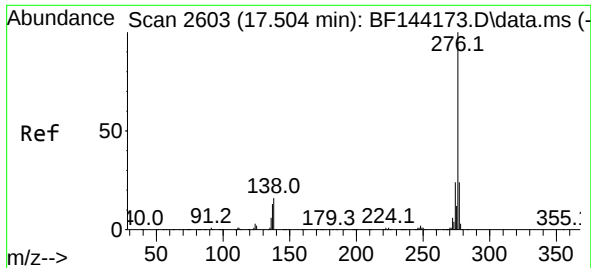
Ion Ratio Lower Upper

278 100

139 13.8 9.1 13.7#

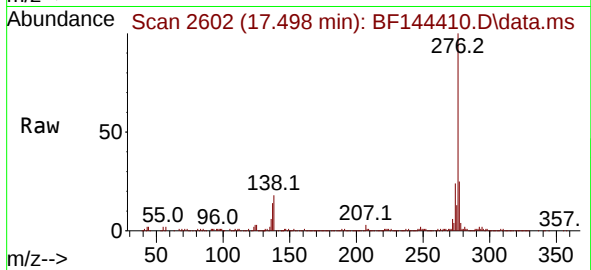
279 30.2 18.2 27.4#





#92
 Benzo(g,h,i)perylene
 Concen: 34.690 ng
 RT: 17.498 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: BF144410.D
 Acq: 02 Dec 2025 18:49

Instrument :
 BNA_F
 ClientSampleId :
 FENCE WC-1



Tgt Ion:276 Resp: 220494
 Ion Ratio Lower Upper
 276 100
 277 24.6 19.0 28.4
 138 17.7 12.9 19.3

