

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP121125\
 Data File : BP026303.D
 Acq On : 11 Dec 2025 22:03
 Operator : RC/JU
 Sample : Q3831-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PL-01-12102025

Quant Time: Dec 11 23:43:49 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP111825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 05 14:52:44 2025
 Response via : Initial Calibration

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

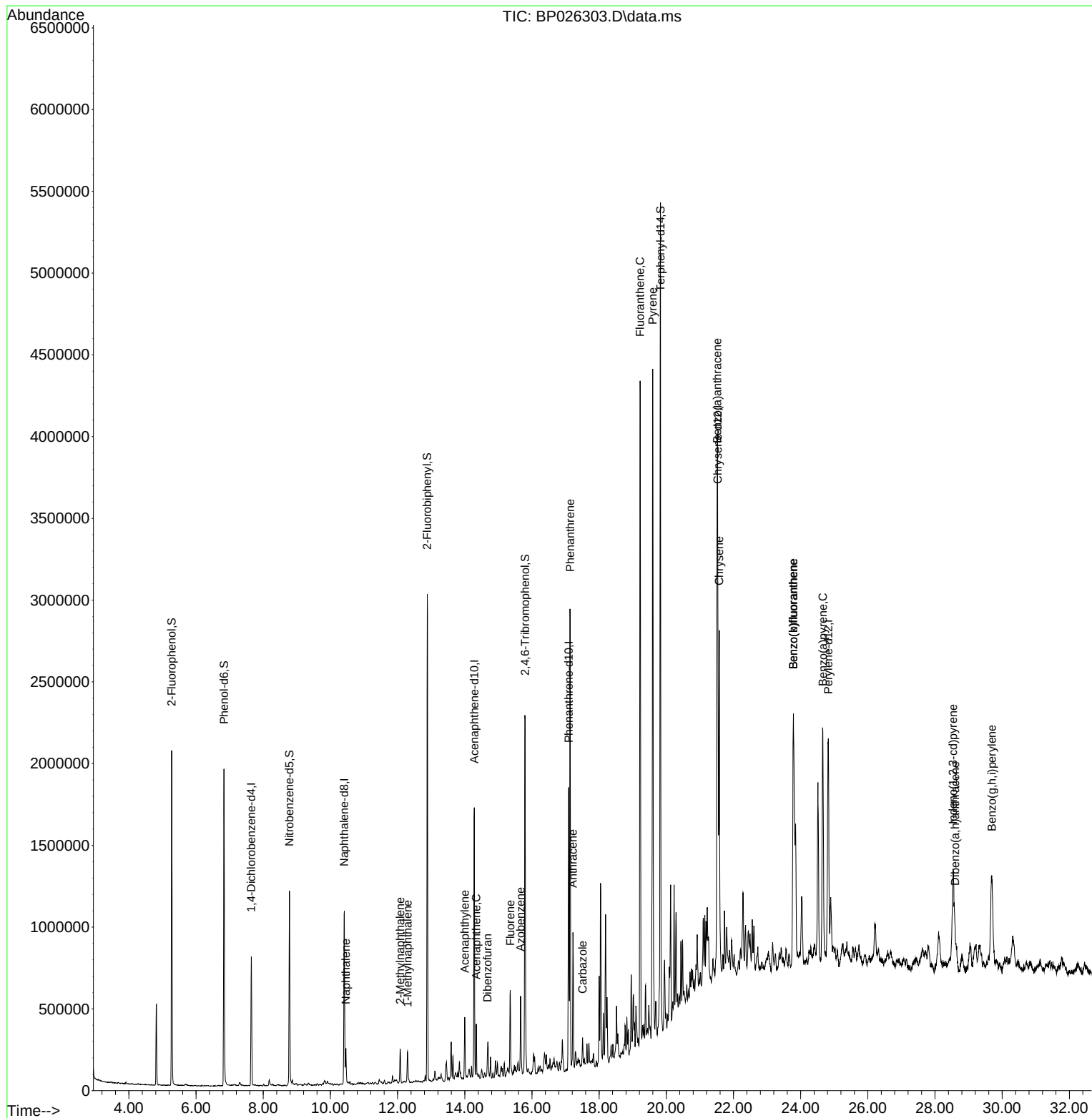
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.643	152	238130	20.000	ng	-0.01
21) Naphthalene-d8	10.413	136	899526	20.000	ng	0.00
39) Acenaphthene-d10	14.284	164	558157	20.000	ng	0.00
64) Phenanthrene-d10	17.095	188	1123330	20.000	ng	0.00
76) Chrysene-d12	21.530	240	1290051	20.000	ng	0.00
86) Perylene-d12	24.824	264	1502322	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.272	112	922153	62.257	ng	0.00
7) Phenol-d6	6.831	99	1113451	59.553	ng	0.00
23) Nitrobenzene-d5	8.778	82	661610	41.865	ng	-0.01
42) 2,4,6-Tribromophenol	15.795	330	506905	69.835	ng	-0.01
45) 2-Fluorobiphenyl	12.884	172	1612940	42.014	ng	-0.02
79) Terphenyl-d14	19.824	244	2586426	40.979	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.460	128	162638	3.344	ng	100
37) 2-Methylnaphthalene	12.078	142	111164	3.243	ng	97
38) 1-Methylnaphthalene	12.295	142	103446	3.089	ng	99
49) Acenaphthylene	14.001	152	287875	5.283	ng	99
52) Acenaphthene	14.342	154	105579	3.314	ng	98
55) Dibenzofuran	14.678	168	131035	2.644	ng	99
58) Fluorene	15.354	166	240659	6.139	ng	96
63) Azobenzene	15.660	77	119428	3.405	ng	# 1
71) Phenanthrene	17.136	178	1760921	27.807	ng	100
72) Anthracene	17.219	178	559961	8.681	ng	100
73) Carbazole	17.507	167	126756	2.076	ng	97
75) Fluoranthene	19.219	202	2915951	37.835	ng	98
78) Pyrene	19.595	202	2836865	33.745	ng	99
81) Benzo(a)anthracene	21.513	228	1584218	17.902	ng	95
83) Chrysene	21.577	228	1516642	18.100	ng	98
87) Indeno(1,2,3-cd)pyrene	28.536	276	1107146	9.751	ng	92
88) Benzo(b)fluoranthene	23.783	252	2091136	22.903	ng	99
89) Benzo(k)fluoranthene	23.783	252	2091136	22.896	ng	98
90) Benzo(a)pyrene	24.659	252	1596225	18.437	ng	97
91) Dibenzo(a,h)anthracene	28.600	278	281677	3.033	ng	# 90
92) Benzo(g,h,i)perylene	29.689	276	1128900	12.194	ng	98

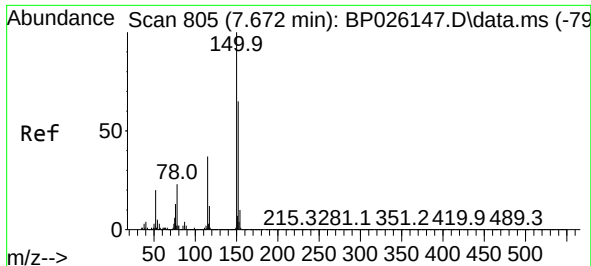
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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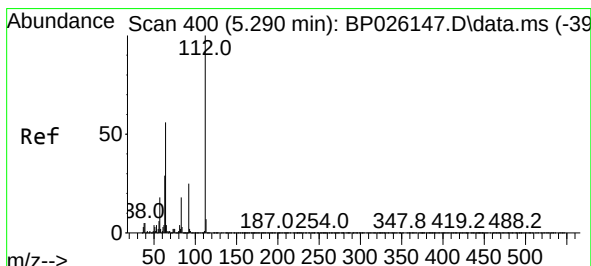
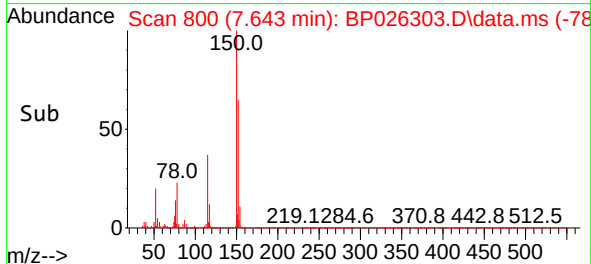
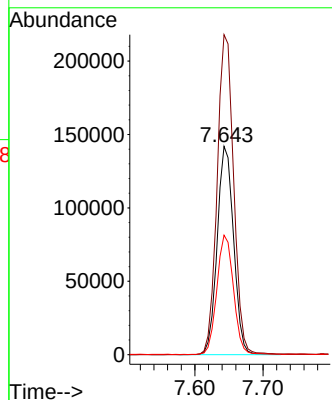
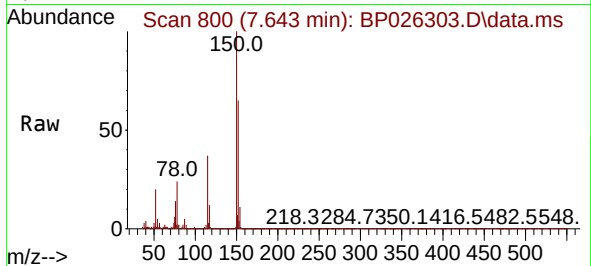




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.643 min Scan# 805
 Delta R.T. -0.012 min
 Lab File: BP026303.D
 Acq: 11 Dec 2025 22:03

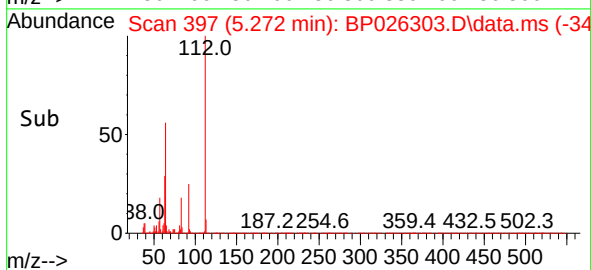
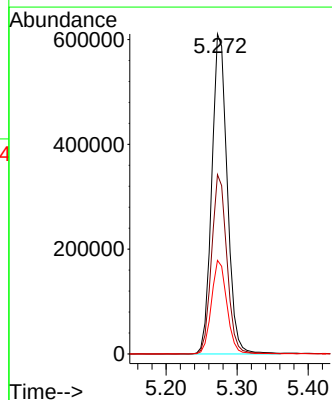
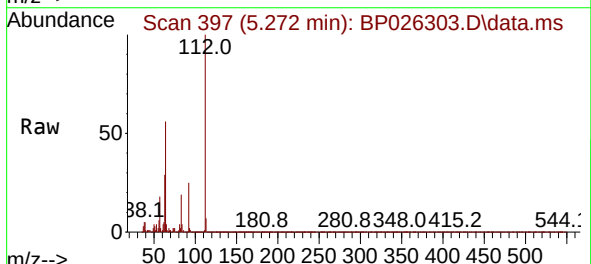
Instrument :
 BNA_P
 ClientSampleId :
 PL-01-12102025

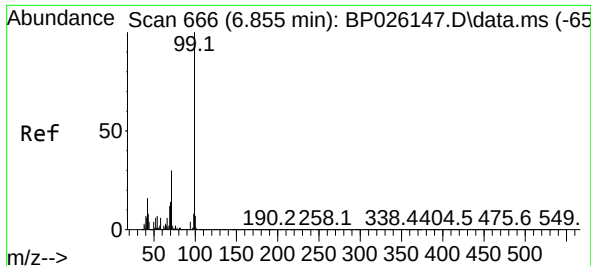
Tgt Ion:152 Resp: 238130
 Ion Ratio Lower Upper
 152 100
 150 153.6 123.0 184.6
 115 57.4 46.3 69.5



#5
 2-Fluorophenol
 Concen: 62.257 ng
 RT: 5.272 min Scan# 397
 Delta R.T. -0.006 min
 Lab File: BP026303.D
 Acq: 11 Dec 2025 22:03

Tgt Ion:112 Resp: 922153
 Ion Ratio Lower Upper
 112 100
 64 56.1 45.8 68.6
 63 29.3 23.5 35.3

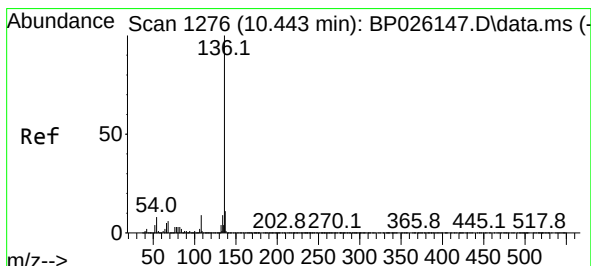
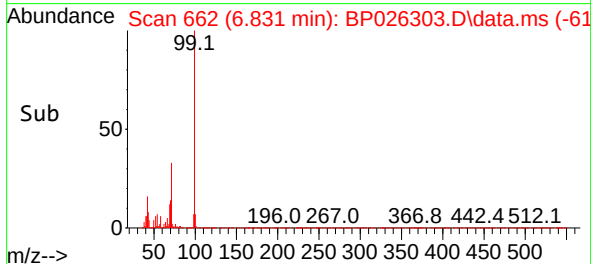
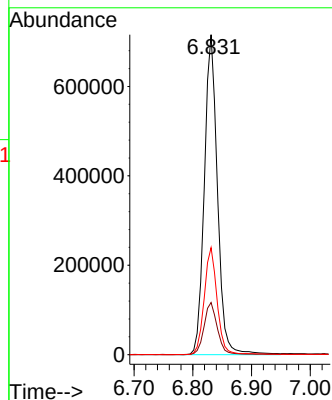
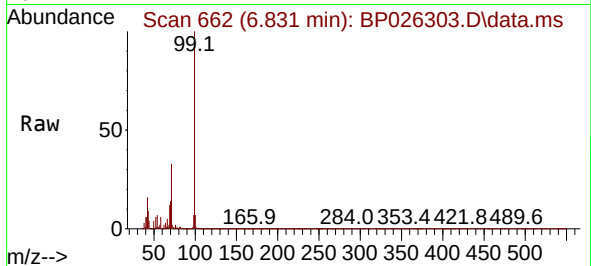




#7
Phenol-d6
Concen: 59.553 ng
RT: 6.831 min Scan# 61
Delta R.T. -0.006 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

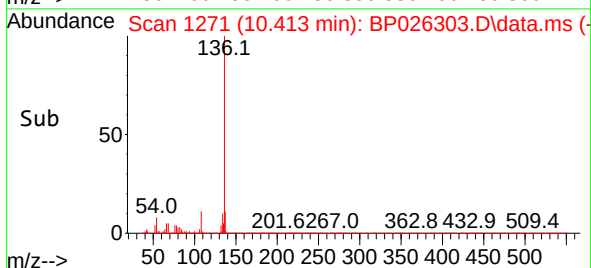
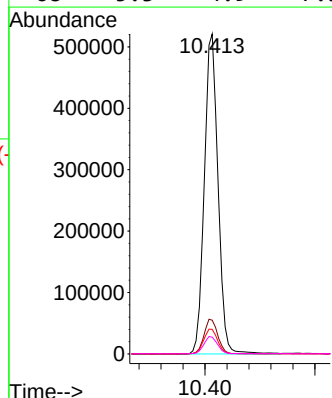
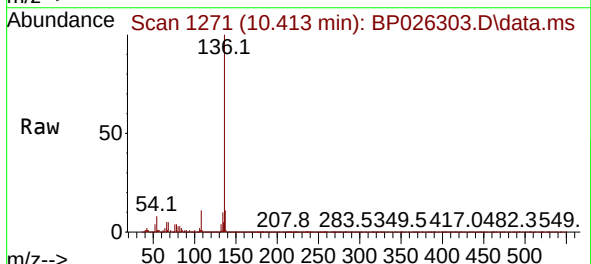
Instrument :
BNA_P
ClientSampleId :
PL-01-12102025

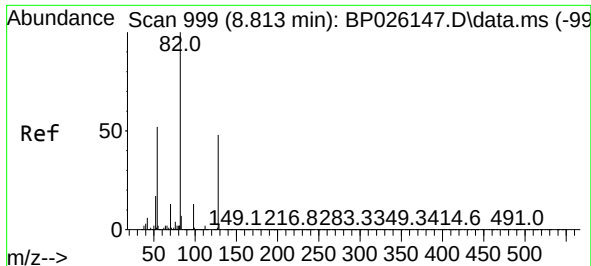
Tgt Ion: 99 Resp: 1113451
Ion Ratio Lower Upper
99 100
42 16.3 12.9 19.3
71 33.4 24.8 37.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.413 min Scan# 1271
Delta R.T. -0.006 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

Tgt Ion: 136 Resp: 899526
Ion Ratio Lower Upper
136 100
137 10.5 8.7 13.1
54 7.7 6.4 9.6
68 5.3 4.9 7.3

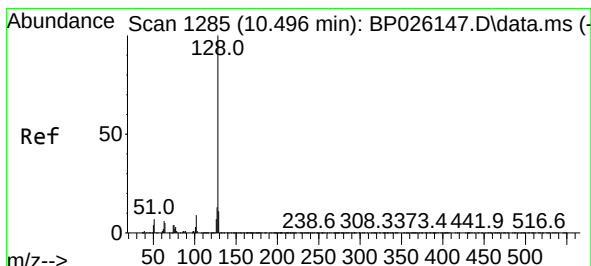
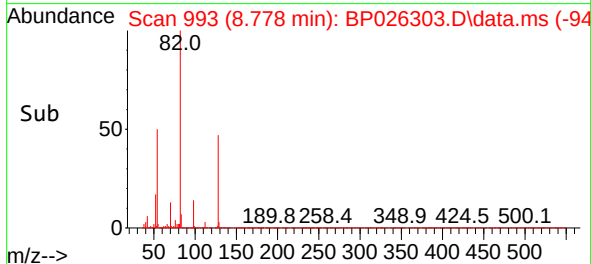
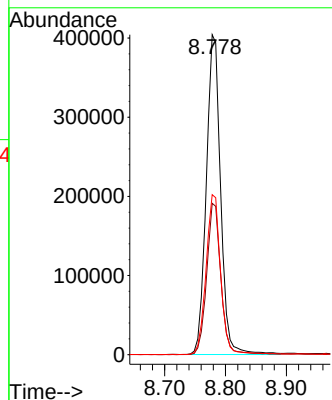
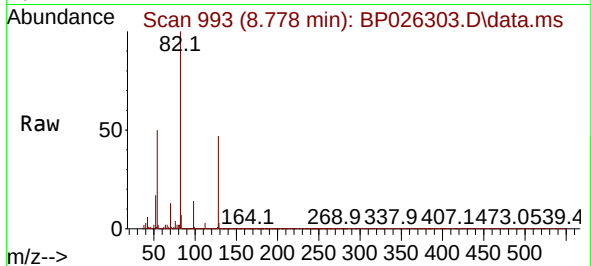




#23
 Nitrobenzene-d5
 Concen: 41.865 ng
 RT: 8.778 min Scan# 999
 Delta R.T. -0.012 min
 Lab File: BP026303.D
 Acq: 11 Dec 2025 22:03

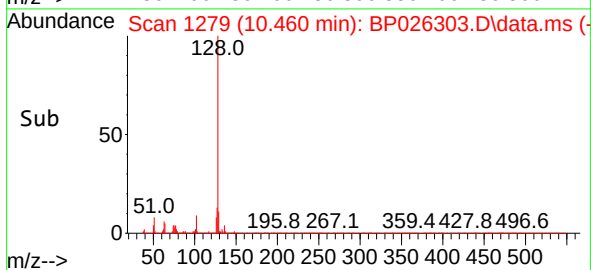
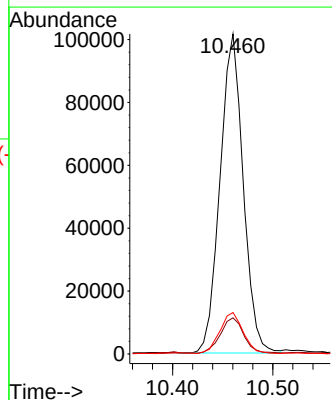
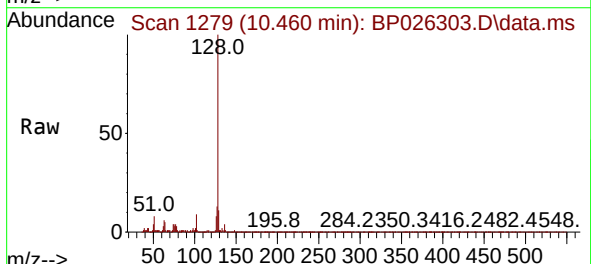
Instrument :
 BNA_P
 ClientSampleId :
 PL-01-12102025

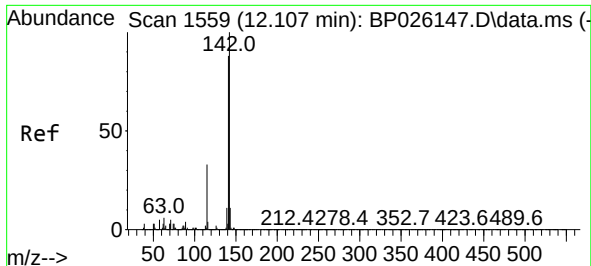
Tgt Ion: 82 Resp: 661610
 Ion Ratio Lower Upper
 82 100
 128 47.3 37.4 56.0
 54 50.0 41.6 62.4



#31
 Naphthalene
 Concen: 3.344 ng
 RT: 10.460 min Scan# 1279
 Delta R.T. -0.006 min
 Lab File: BP026303.D
 Acq: 11 Dec 2025 22:03

Tgt Ion: 128 Resp: 162638
 Ion Ratio Lower Upper
 128 100
 129 11.3 9.0 13.6
 127 13.0 10.2 15.4

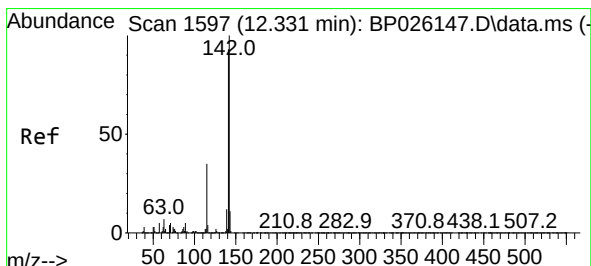
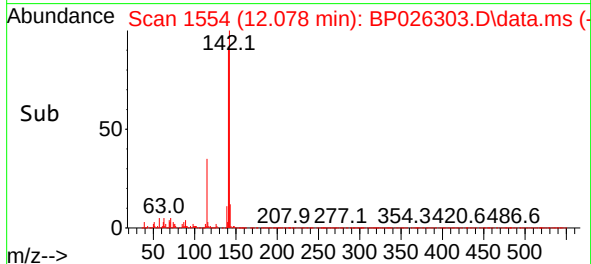
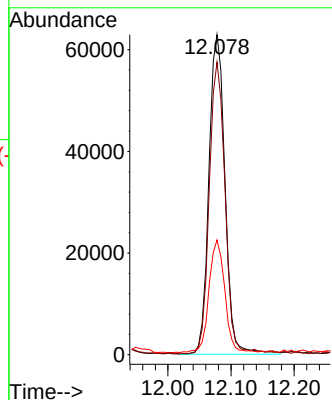
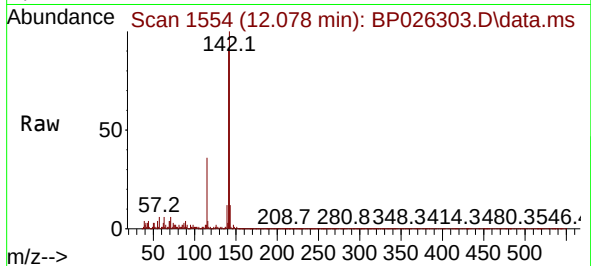




#37
2-Methylnaphthalene
Concen: 3.243 ng
RT: 12.078 min Scan# 1559
Delta R.T. -0.006 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

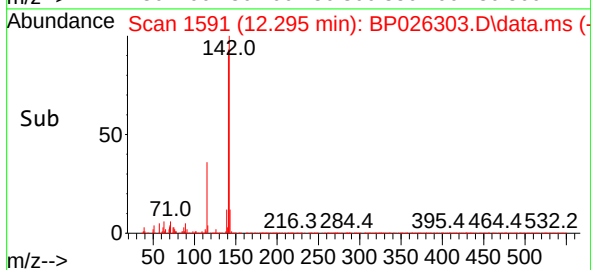
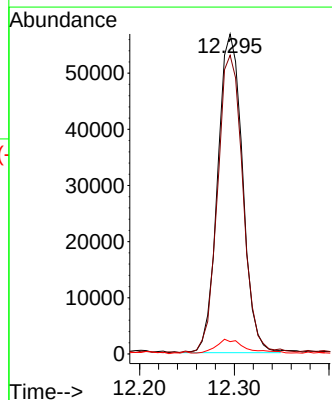
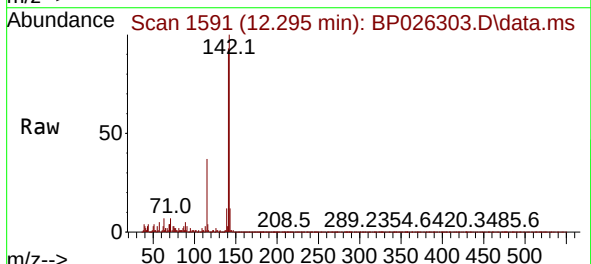
Instrument :
BNA_P
ClientSampleId :
PL-01-12102025

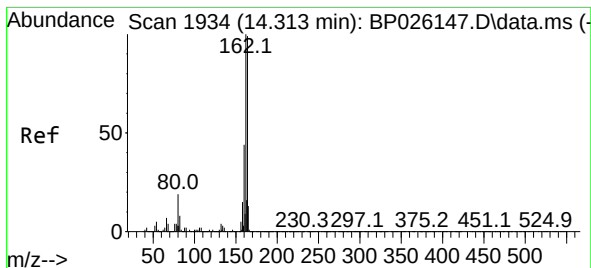
Tgt Ion:142 Resp: 111164
Ion Ratio Lower Upper
142 100
141 91.4 71.0 106.6
115 35.8 26.6 39.8



#38
1-Methylnaphthalene
Concen: 3.089 ng
RT: 12.295 min Scan# 1591
Delta R.T. -0.012 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

Tgt Ion:142 Resp: 103446
Ion Ratio Lower Upper
142 100
141 93.4 73.5 110.3
116 3.8 3.0 4.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.284 min Scan# 1934

Delta R.T. -0.006 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

Instrument :

BNA_P

ClientSampleId :

PL-01-12102025

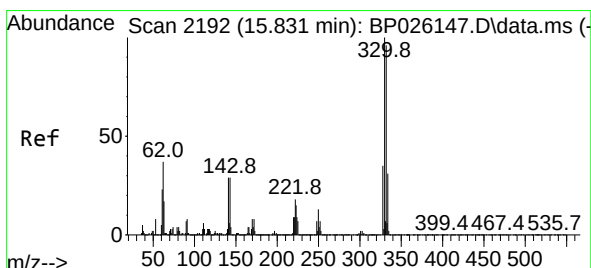
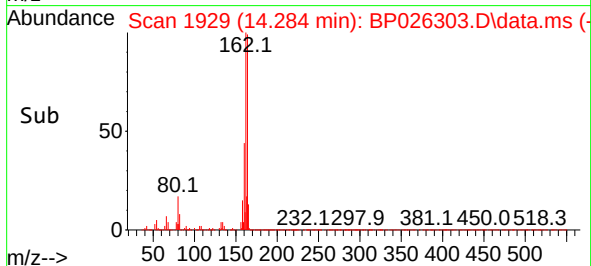
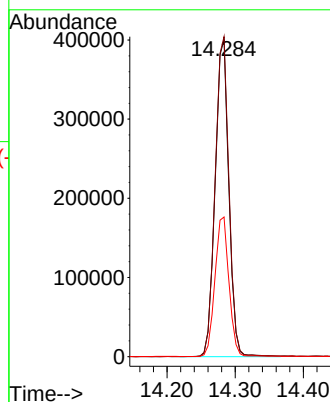
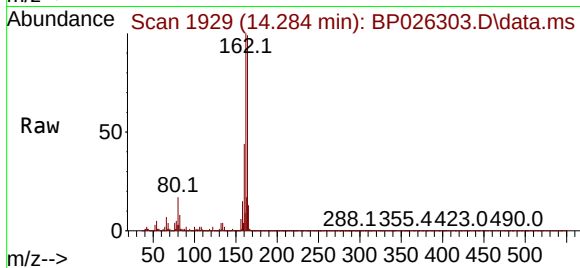
Tgt Ion:164 Resp: 558157

Ion Ratio Lower Upper

164 100

162 100.9 80.3 120.5

160 44.1 35.2 52.8



#42

2,4,6-Tribromophenol

Concen: 69.835 ng

RT: 15.795 min Scan# 2186

Delta R.T. -0.012 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

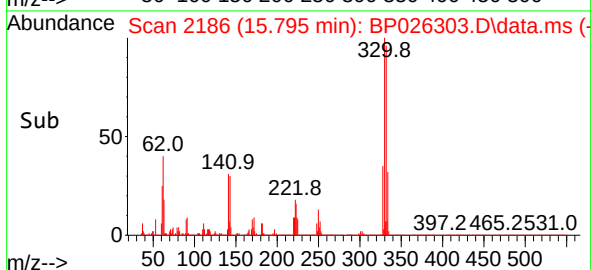
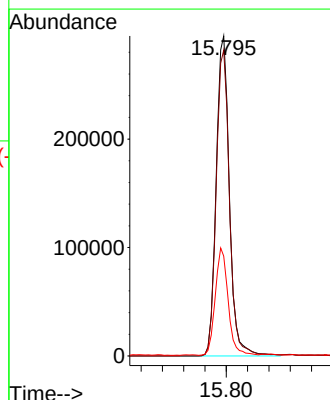
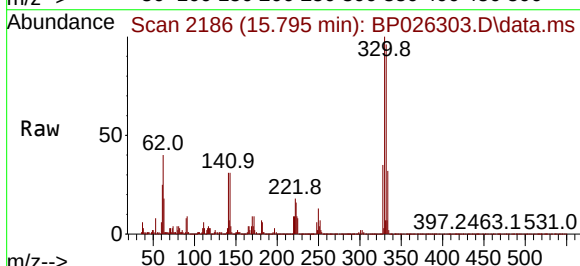
Tgt Ion:330 Resp: 506905

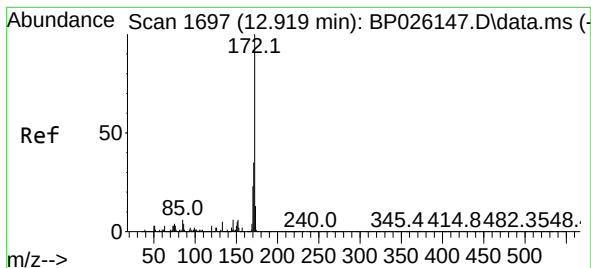
Ion Ratio Lower Upper

330 100

332 96.5 78.0 117.0

141 32.7 26.8 40.2





#45

2-Fluorobiphenyl

Concen: 42.014 ng

RT: 12.884 min Scan# 1691

Delta R.T. -0.018 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

Instrument :

BNA_P

ClientSampleId :

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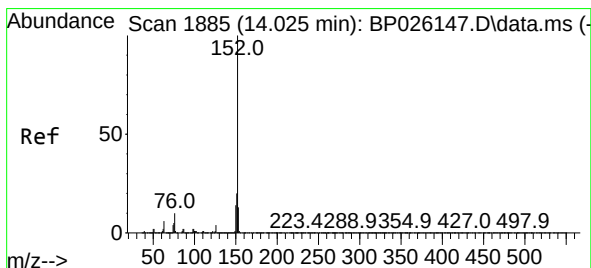
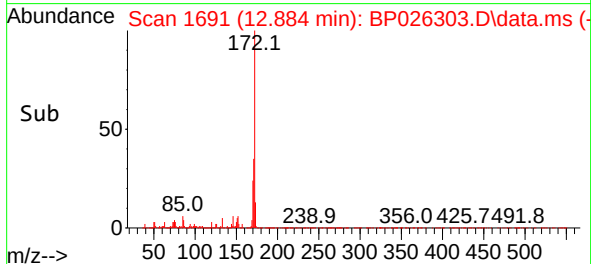
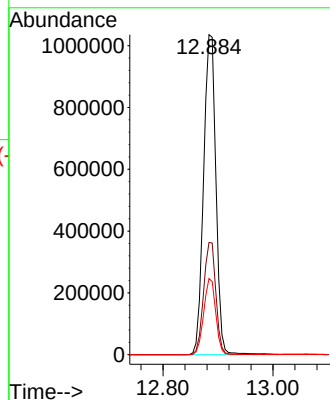
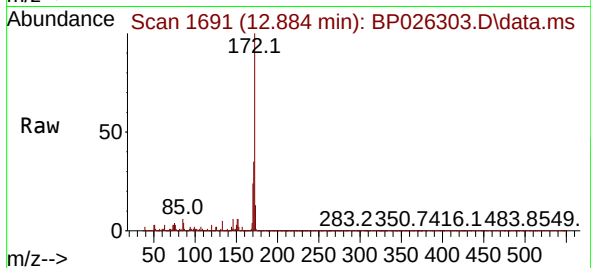
Tgt Ion:172 Resp: 1612940

Ion Ratio Lower Upper

172 100

171 35.1 28.2 42.4

170 23.8 18.7 28.1



#49

Acenaphthylene

Concen: 5.283 ng

RT: 14.001 min Scan# 1881

Delta R.T. -0.000 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

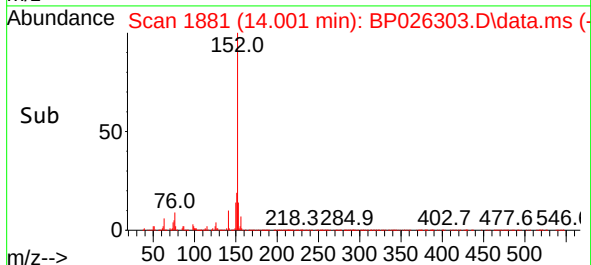
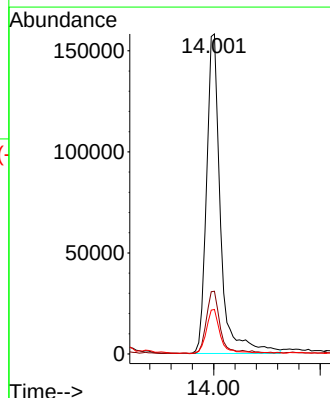
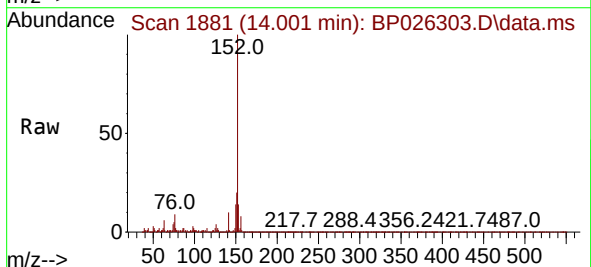
Tgt Ion:152 Resp: 287875

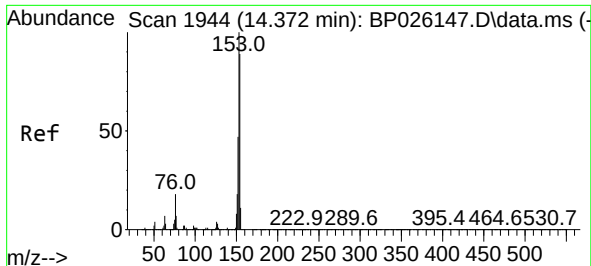
Ion Ratio Lower Upper

152 100

151 19.6 15.8 23.8

153 13.9 10.6 16.0

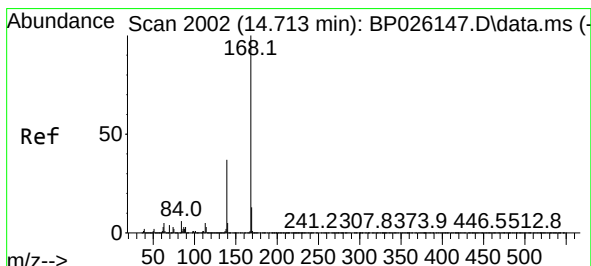
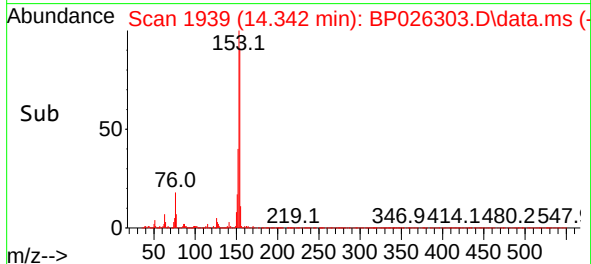
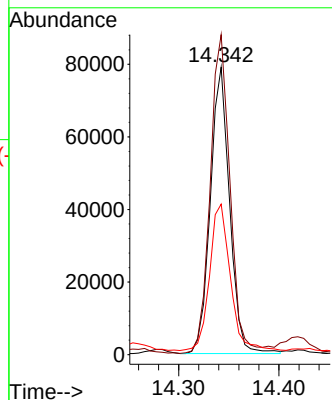
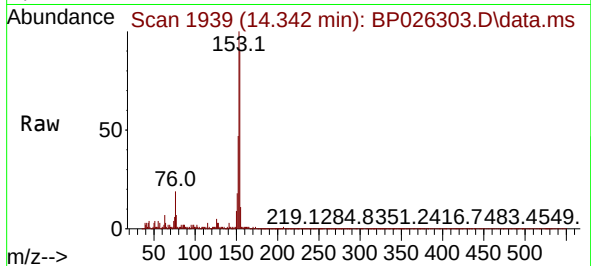




#52
Acenaphthene
Concen: 3.314 ng
RT: 14.342 min Scan# 1939
Delta R.T. -0.012 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

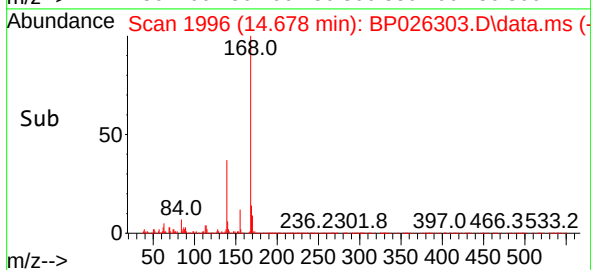
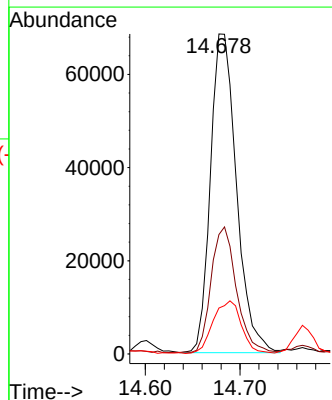
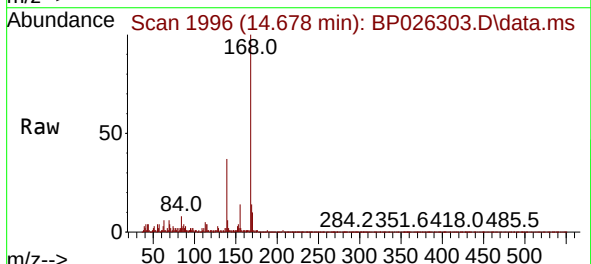
Instrument :
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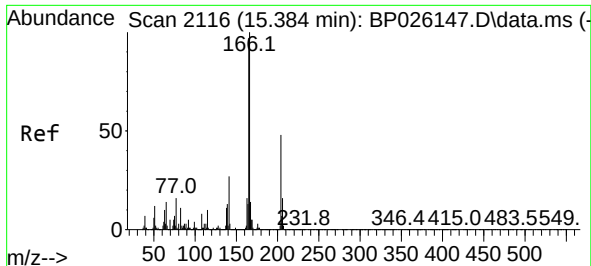
Tgt Ion:154 Resp: 105579
Ion Ratio Lower Upper
154 100
153 111.3 90.7 136.1
152 52.4 42.8 64.2



#55
Dibenzofuran
Concen: 2.644 ng
RT: 14.678 min Scan# 1996
Delta R.T. -0.018 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

Tgt Ion:168 Resp: 131035
Ion Ratio Lower Upper
168 100
139 37.3 29.8 44.6
169 14.3 10.9 16.3

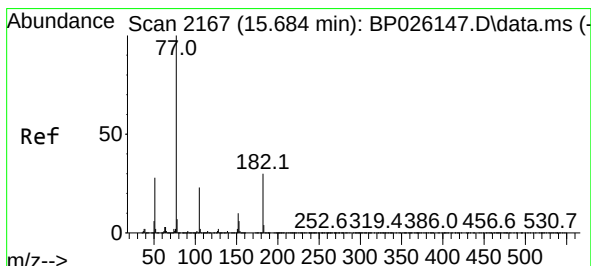
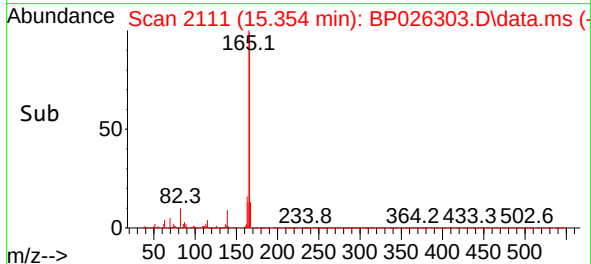
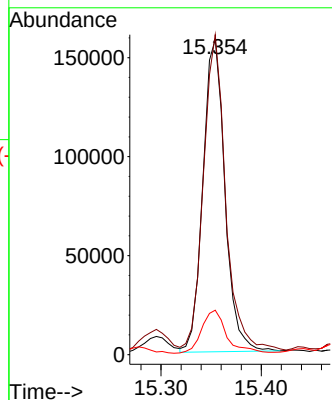
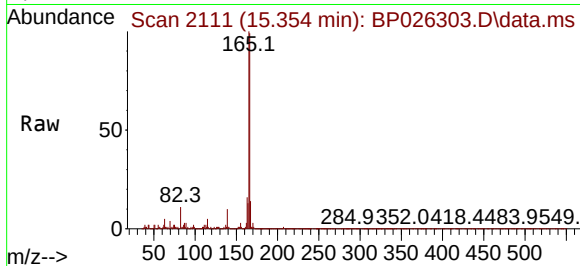




#58
 Fluorene
 Concen: 6.139 ng
 RT: 15.354 min Scan# 2116
 Delta R.T. -0.006 min
 Lab File: BP026303.D
 Acq: 11 Dec 2025 22:03

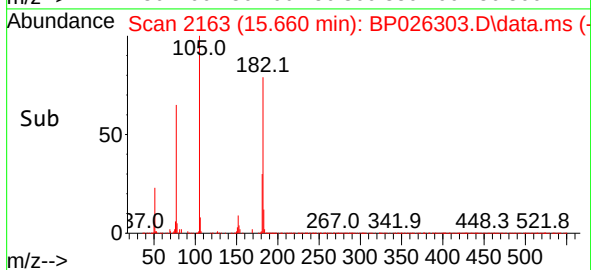
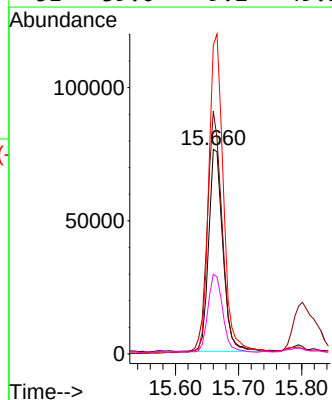
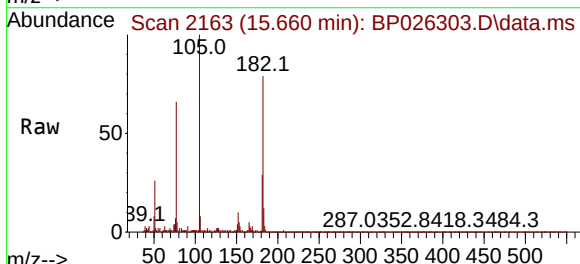
Instrument :
 BNA_P
 ClientSampleId :
 PL-01-12102025

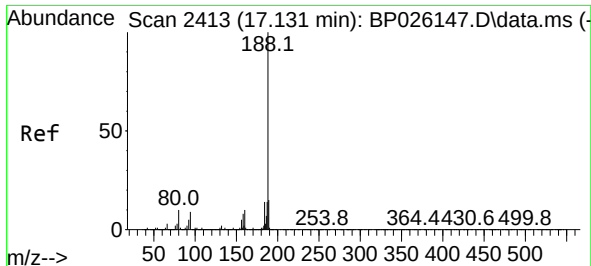
Tgt Ion:166 Resp: 240659
 Ion Ratio Lower Upper
 166 100
 165 101.4 77.9 116.9
 167 14.1 11.0 16.4



#63
 Azobenzene
 Concen: 3.405 ng
 RT: 15.660 min Scan# 2163
 Delta R.T. 0.006 min
 Lab File: BP026303.D
 Acq: 11 Dec 2025 22:03

Tgt Ion: 77 Resp: 119428
 Ion Ratio Lower Upper
 77 100
 182 118.7 8.8 48.8#
 105 151.0 2.6 42.6#
 51 39.0 9.2 49.2

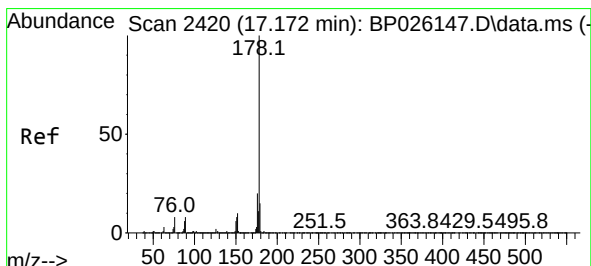
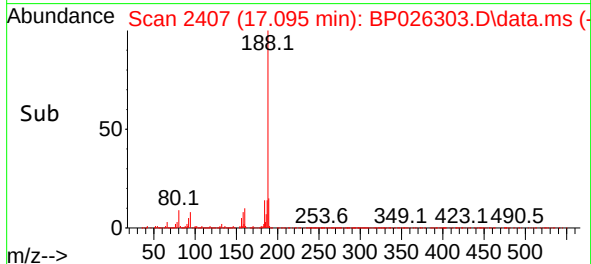
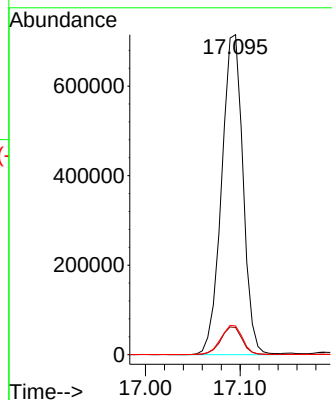
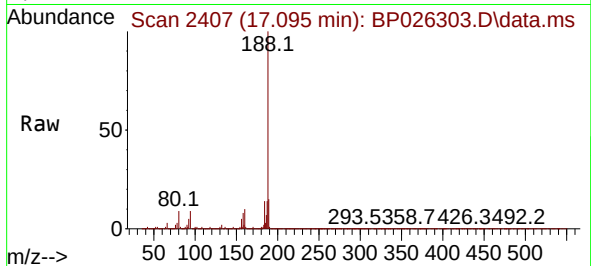




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.095 min Scan# 2413
Delta R.T. -0.000 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

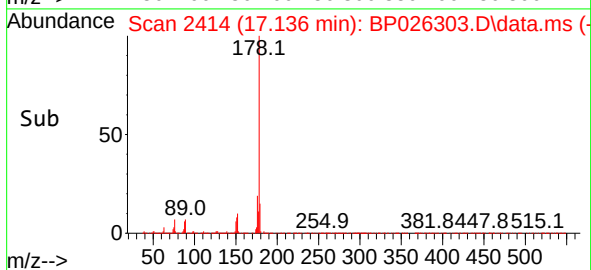
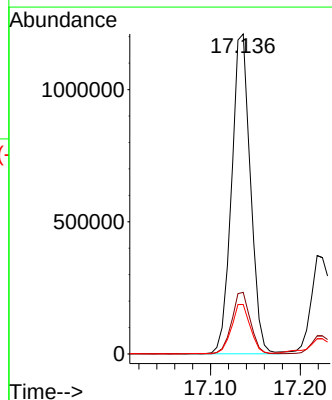
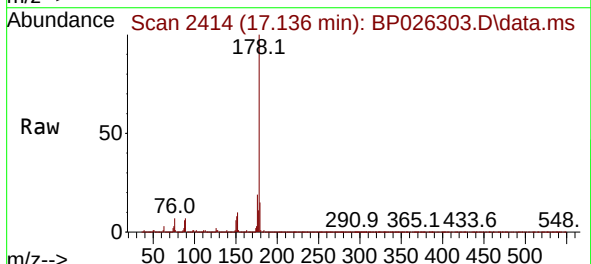
Instrument :
BNA_P
ClientSampleId :
PL-01-12102025

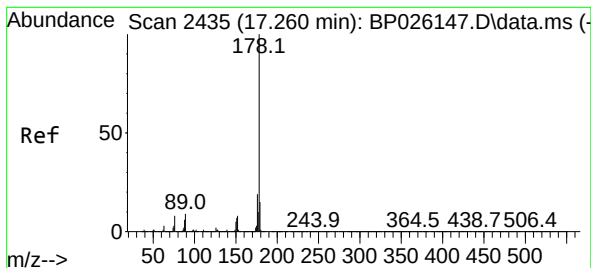
Tgt Ion:188 Resp: 1123330
Ion Ratio Lower Upper
188 100
94 8.5 7.8 11.6
80 9.0 8.2 12.2



#71
Phenanthrene
Concen: 27.807 ng
RT: 17.136 min Scan# 2414
Delta R.T. -0.000 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

Tgt Ion:178 Resp: 1760921
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.5 12.4 18.6





#72

Anthracene

Concen: 8.681 ng

RT: 17.219 min Scan# 2435

Delta R.T. -0.012 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

Instrument :

BNA_P

ClientSampleId :

PL-01-12102025

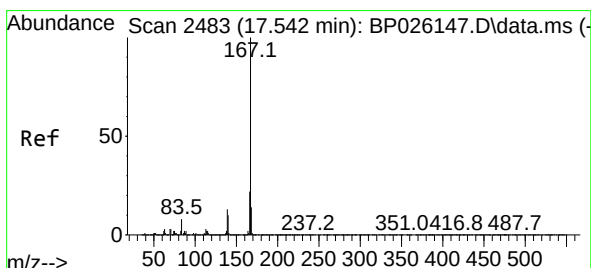
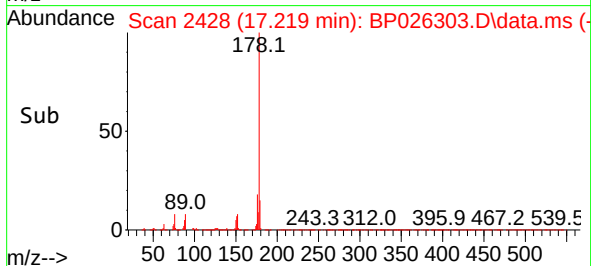
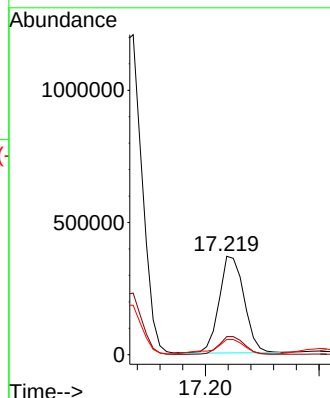
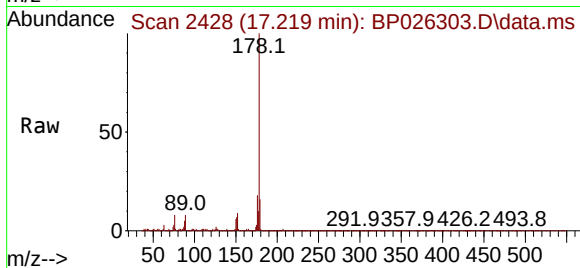
Tgt Ion:178 Resp: 559961

Ion Ratio Lower Upper

178 100

176 18.4 14.8 22.2

179 15.5 12.2 18.4



#73

Carbazole

Concen: 2.076 ng

RT: 17.507 min Scan# 2477

Delta R.T. -0.006 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

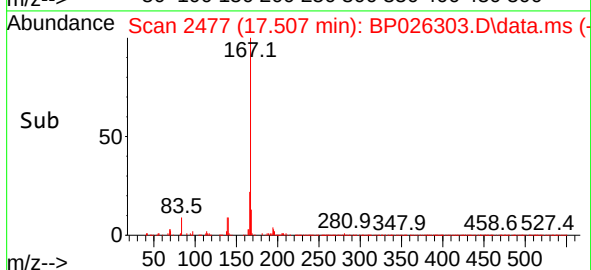
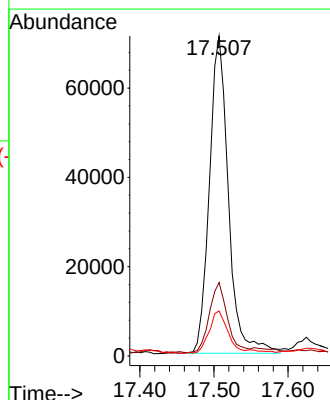
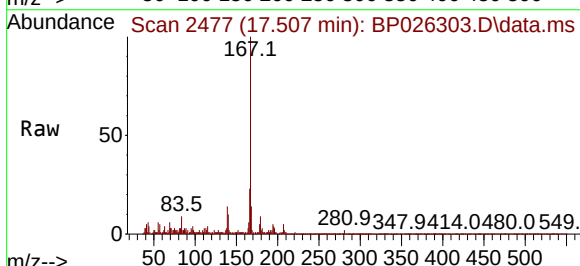
Tgt Ion:167 Resp: 126756

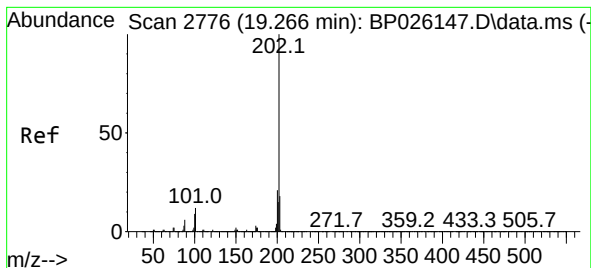
Ion Ratio Lower Upper

167 100

166 23.0 17.1 25.7

139 14.1 10.2 15.4





#75

Fluoranthene

Concen: 37.835 ng

RT: 19.219 min Scan# 21

Delta R.T. -0.018 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

Instrument :

BNA_P

ClientSampleId :

PL-01-12102025

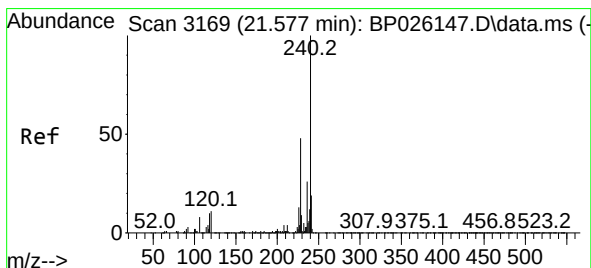
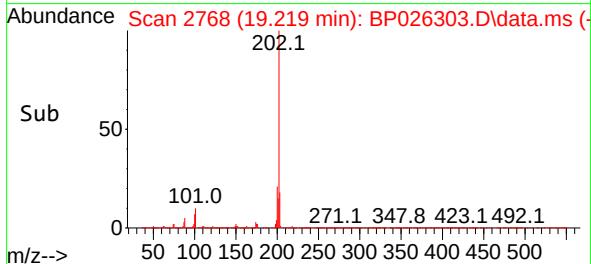
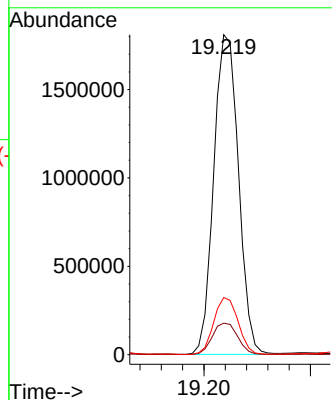
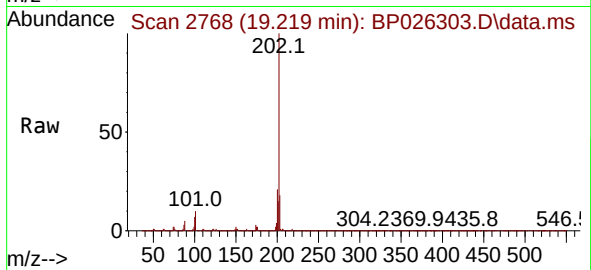
Tgt Ion:202 Resp: 2915951

Ion Ratio Lower Upper

202 100

101 9.9 0.0 31.2

203 17.8 0.0 37.7



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.530 min Scan# 3161

Delta R.T. -0.006 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

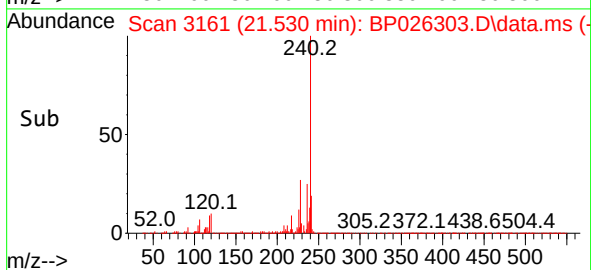
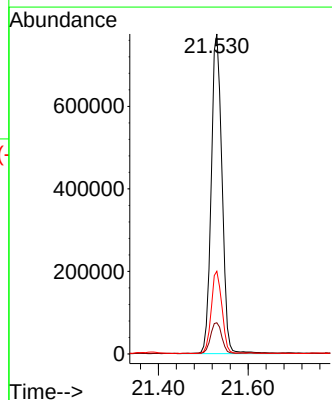
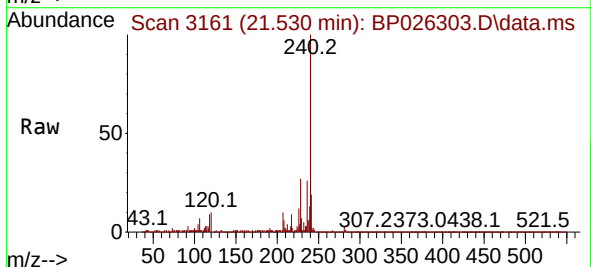
Tgt Ion:240 Resp: 1290051

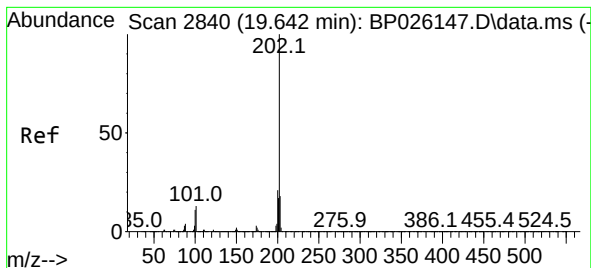
Ion Ratio Lower Upper

240 100

120 9.8 9.0 13.4

236 25.8 20.4 30.6





#78

Pyrene

Concen: 33.745 ng

RT: 19.595 min Scan# 2832

Delta R.T. -0.018 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

Instrument :

BNA_P

ClientSampleId :

PL-01-12102025

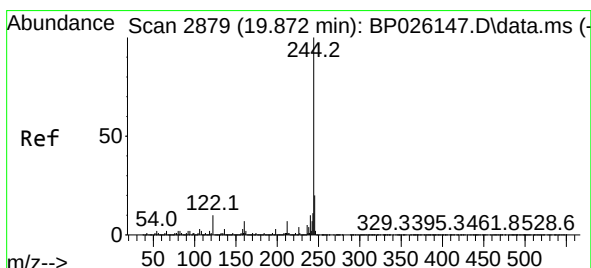
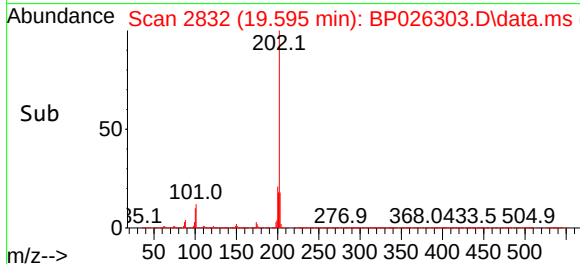
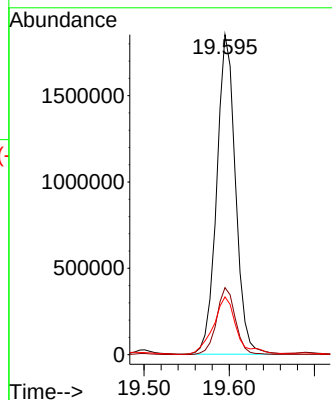
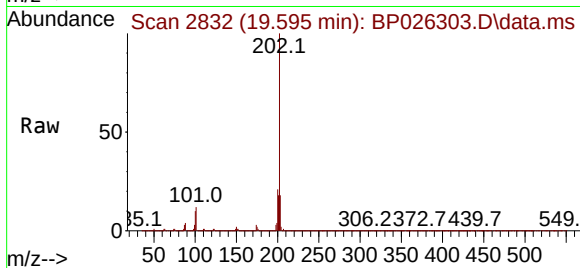
Tgt Ion:202 Resp: 2836865

Ion Ratio Lower Upper

202 100

200 21.0 16.9 25.3

203 18.0 13.8 20.8



#79

Terphenyl-d14

Concen: 40.979 ng

RT: 19.824 min Scan# 2871

Delta R.T. -0.012 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

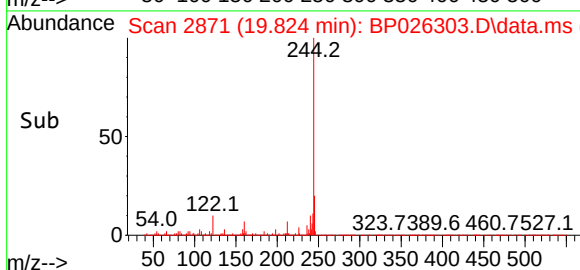
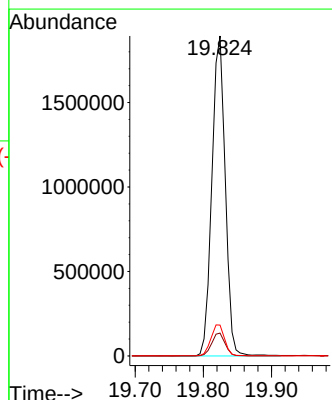
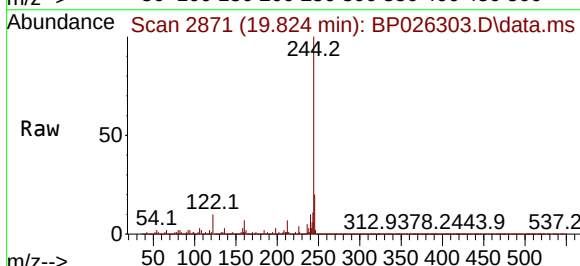
Tgt Ion:244 Resp: 2586426

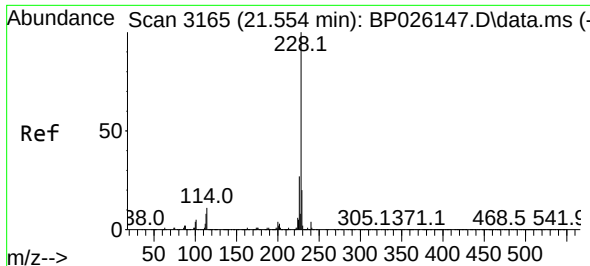
Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.8

122 9.7 8.2 12.2

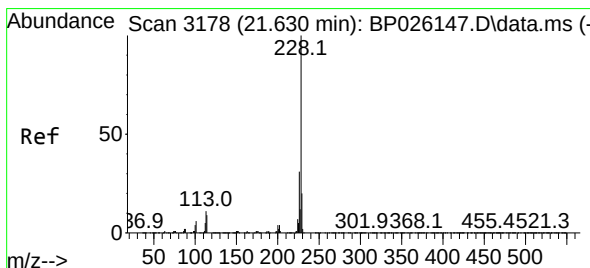
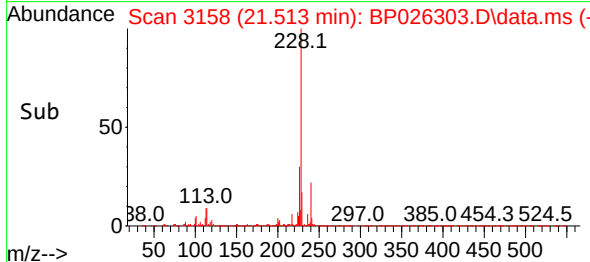
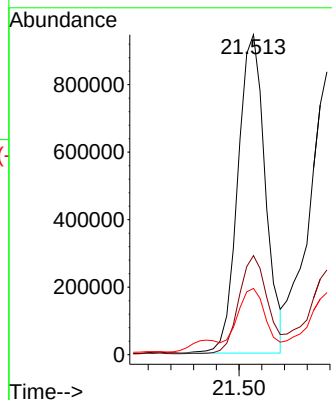
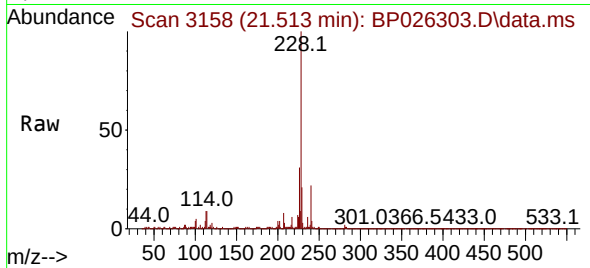




#81
Benzo(a)anthracene
Concen: 17.902 ng
RT: 21.513 min Scan# 3165
Delta R.T. -0.006 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

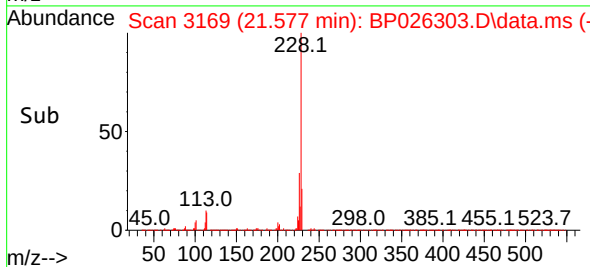
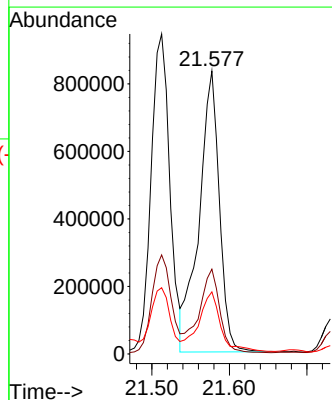
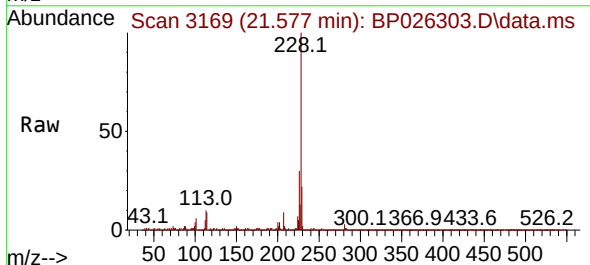
Instrument :
BNA_P
ClientSampleId :
PL-01-12102025

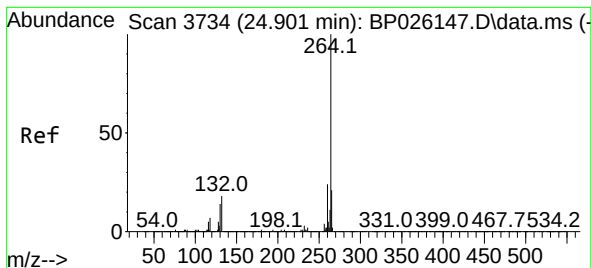
Tgt Ion:228 Resp: 1584218
Ion Ratio Lower Upper
228 100
226 31.0 21.8 32.8
229 20.7 15.9 23.9



#83
Chrysene
Concen: 18.100 ng
RT: 21.577 min Scan# 3169
Delta R.T. -0.006 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

Tgt Ion:228 Resp: 1516642
Ion Ratio Lower Upper
228 100
226 30.0 23.9 35.9
229 21.9 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.824 min Scan# 31

Delta R.T. -0.000 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

Instrument :

BNA_P

ClientSampleId :

PL-01-12102025

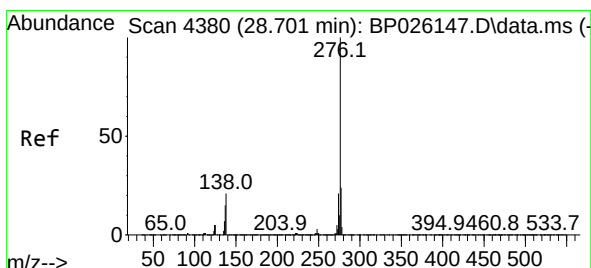
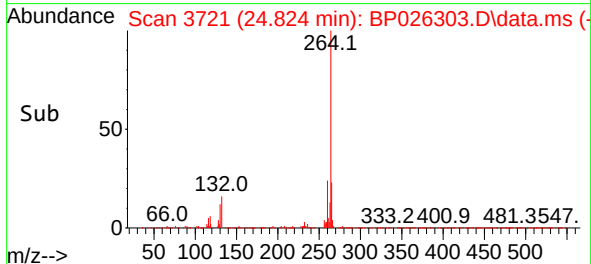
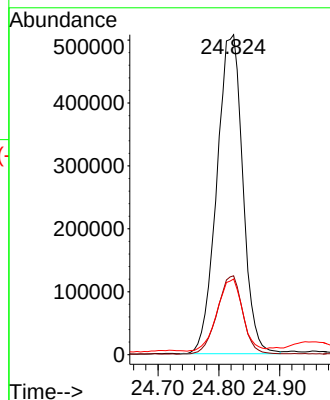
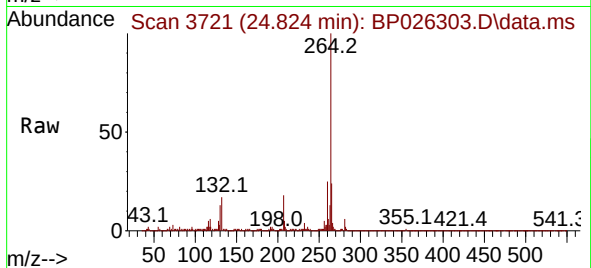
Tgt Ion:264 Resp: 1502322

Ion Ratio Lower Upper

264 100

260 24.6 18.7 28.1

265 23.7 17.5 26.3



#87

Indeno(1,2,3-cd)pyrene

Concen: 9.751 ng

RT: 28.536 min Scan# 4352

Delta R.T. -0.047 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

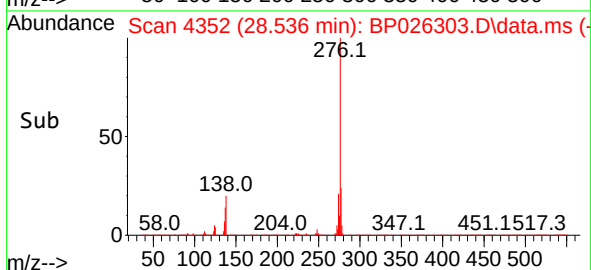
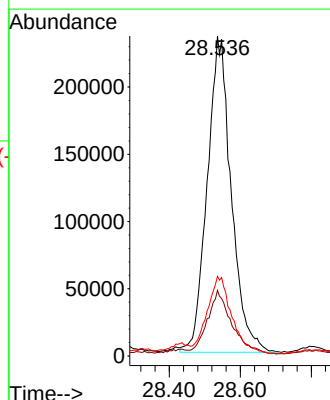
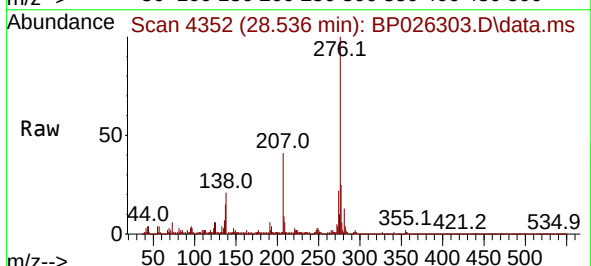
Tgt Ion:276 Resp: 1107146

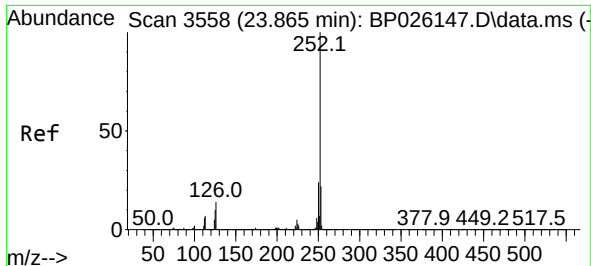
Ion Ratio Lower Upper

276 100

138 20.3 13.8 20.8

277 25.1 16.7 25.1

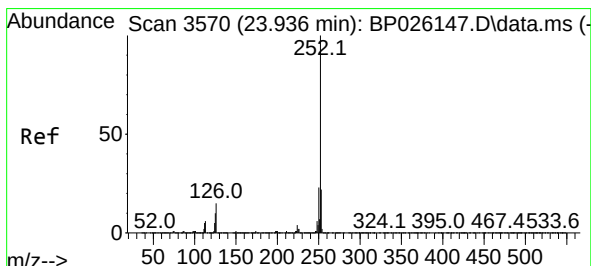
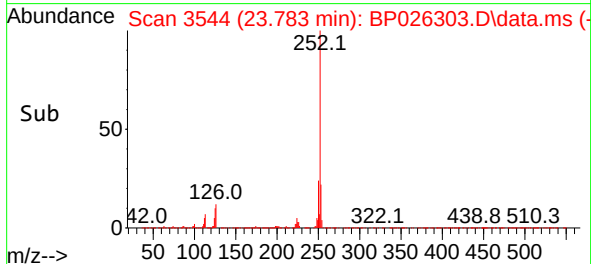
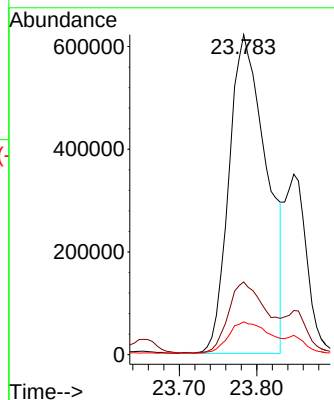
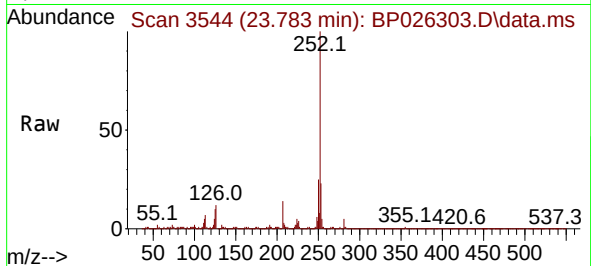




#88
Benzo(b)fluoranthene
Concen: 22.903 ng
RT: 23.783 min Scan# 3558
Delta R.T. -0.012 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

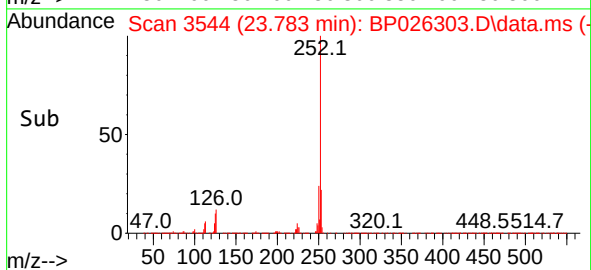
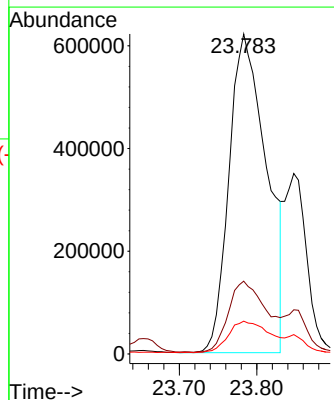
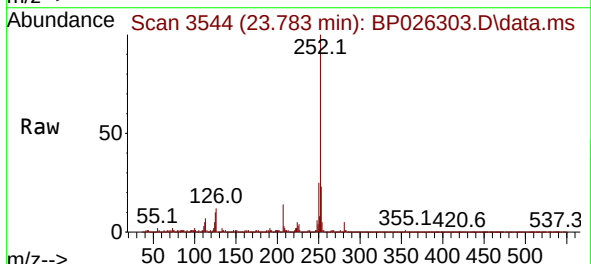
Instrument :
BNA_P
ClientSampleId :
PL-01-12102025

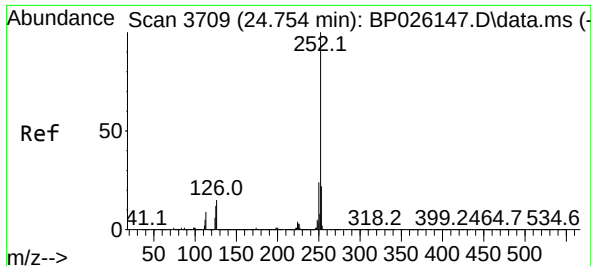
Tgt Ion:252 Resp: 2091136
Ion Ratio Lower Upper
252 100
253 22.7 17.6 26.4
125 10.3 8.2 12.4



#89
Benzo(k)fluoranthene
Concen: 22.896 ng
RT: 23.783 min Scan# 3544
Delta R.T. -0.083 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

Tgt Ion:252 Resp: 2091136
Ion Ratio Lower Upper
252 100
253 22.7 17.6 26.4
125 10.3 7.5 11.3

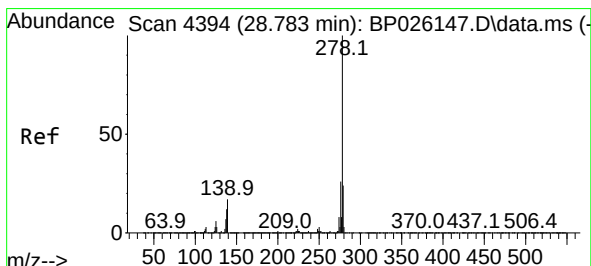
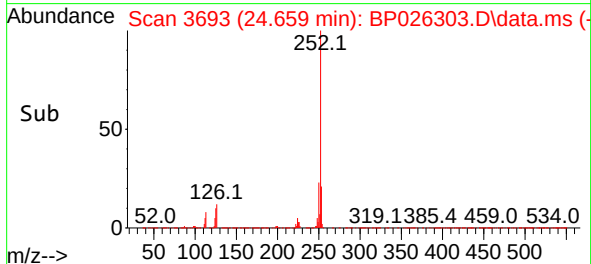
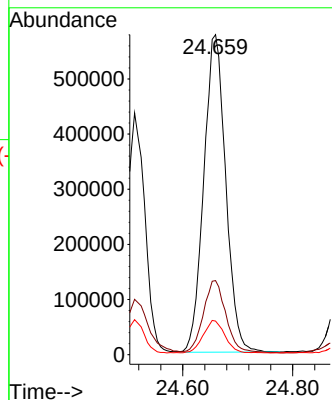
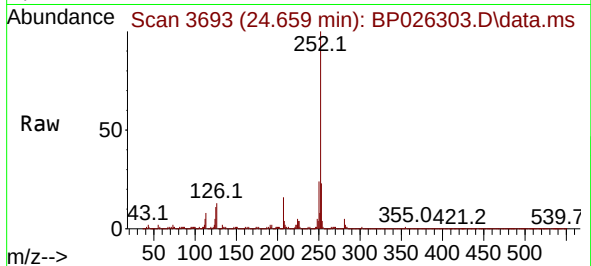




#90
Benzo(a)pyrene
Concen: 18.437 ng
RT: 24.659 min Scan# 3
Delta R.T. -0.024 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

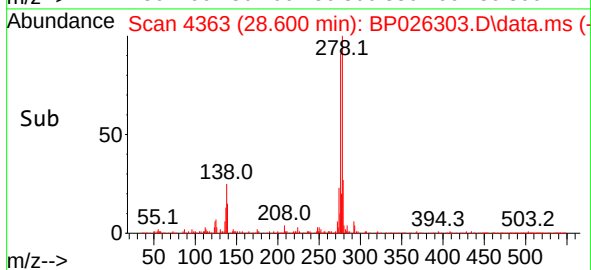
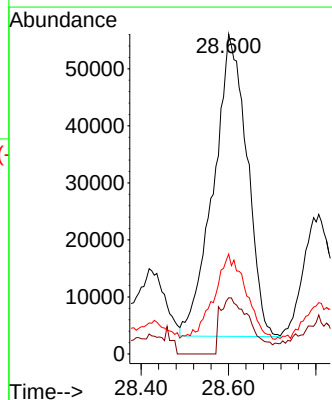
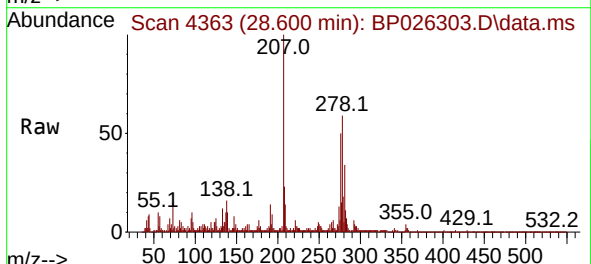
Instrument :
BNA_P
ClientSampleId :
PL-01-12102025

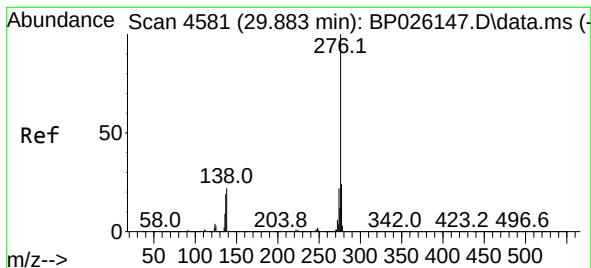
Tgt Ion:252 Resp: 1596225
Ion Ratio Lower Upper
252 100
253 23.1 17.4 26.2
125 10.5 9.0 13.6



#91
Dibenzo(a,h)anthracene
Concen: 3.033 ng
RT: 28.600 min Scan# 4363
Delta R.T. -0.047 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

Tgt Ion:278 Resp: 281677
Ion Ratio Lower Upper
278 100
139 17.6 13.2 19.8
279 31.2 19.2 28.8#





#92

Benzo(g,h,i)perylene

Concen: 12.194 ng

RT: 29.689 min Scan# 4548

Delta R.T. -0.059 min

Lab File: BP026303.D

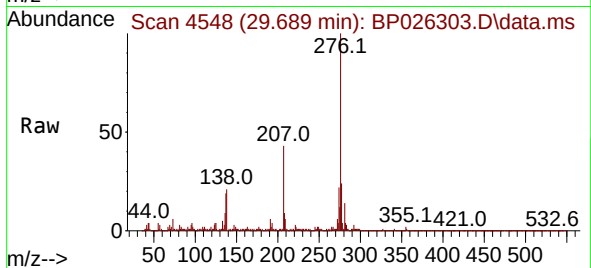
Acq: 11 Dec 2025 22:03

Instrument :

BNA_P

ClientSampleId :

PL-01-12102025



Tgt Ion:276 Resp: 1128900

Ion Ratio Lower Upper

276 100

277 23.8 18.8 28.2

138 20.8 17.8 26.6

