

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
 Data File : BP024898.D
 Acq On : 10 Jun 2025 17:49
 Operator : RC/JU
 Sample : Q2246-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 BU-03-060525

Quant Time: Jun 10 18:38:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 06 16:20:27 2025
 Response via : Initial Calibration

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

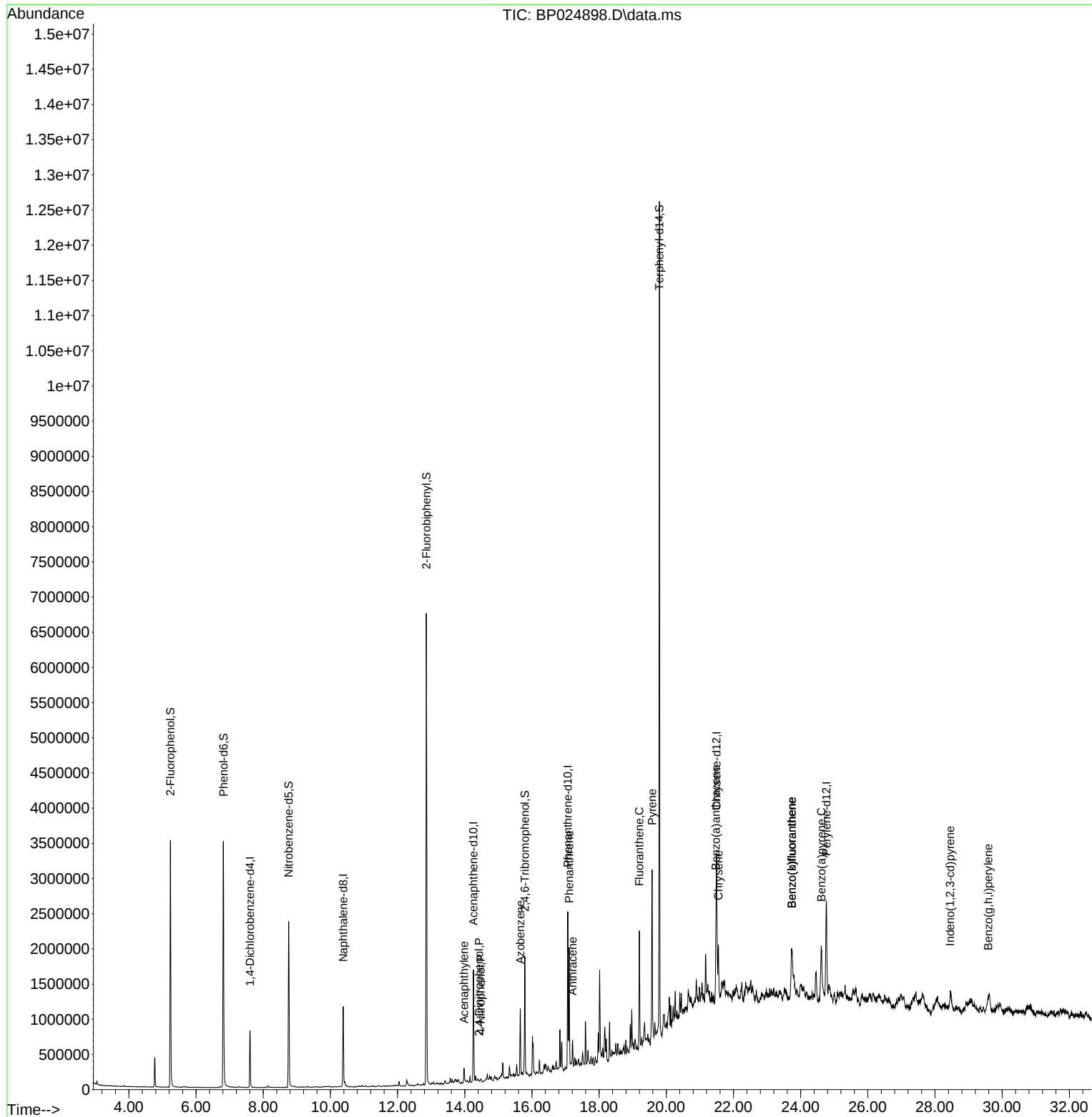
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.608	152	235815	20.000	ng	0.00
21) Naphthalene-d8	10.378	136	955835	20.000	ng	0.00
39) Acenaphthene-d10	14.260	164	617371	20.000	ng	0.01
64) Phenanthrene-d10	17.066	188	1160216	20.000	ng	0.00
76) Chrysene-d12	21.495	240	1104422	20.000	ng	0.01
86) Perylene-d12	24.765	264	1317865	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.237	112	1577762	111.681	ng	0.00
7) Phenol-d6	6.813	99	2282826	122.128	ng	0.00
23) Nitrobenzene-d5	8.755	82	1466686	74.564	ng	0.00
42) 2,4,6-Tribromophenol	15.789	330	360969	42.290	ng	0.00
45) 2-Fluorobiphenyl	12.854	172	3582822	78.178	ng	0.00
79) Terphenyl-d14	19.795	244	5089838	82.598	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	13.978	152	160234	2.787	ng	96
54) 2,4-Dinitrophenol	14.425	184	300	5.607	ng	# 1
56) 4-Nitrophenol	14.472	139	1614	5.584	ng	# 29
63) Azobenzene	15.654	77	281996	6.774	ng	# 1
71) Phenanthrene	17.107	178	976767	15.235	ng	99
72) Anthracene	17.207	178	265233	4.085	ng	99
75) Fluoranthene	19.195	202	1008373	13.569	ng	99
78) Pyrene	19.577	202	1324970	19.203	ng	100
81) Benzo(a)anthracene	21.477	228	585876	8.294	ng	94
83) Chrysene	21.548	228	601356	8.985	ng	96
87) Indeno(1,2,3-cd)pyrene	28.453	276	399866	4.159	ng	96
88) Benzo(b)fluoranthene	23.736	252	704481	9.341	ng	# 93
89) Benzo(k)fluoranthene	23.736	252	704481	9.176	ng	# 93
90) Benzo(a)pyrene	24.613	252	628351	8.531	ng	96
92) Benzo(g,h,i)perylene	29.589	276	207642	2.674	ng	96

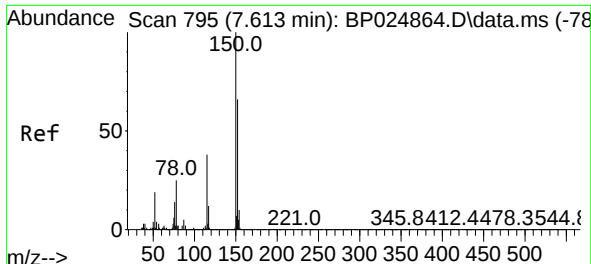
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
Data File : BP024898.D
Acq On : 10 Jun 2025 17:49
Operator : RC/JU
Sample : Q2246-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
BU-03-060525

Quant Time: Jun 10 18:38:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

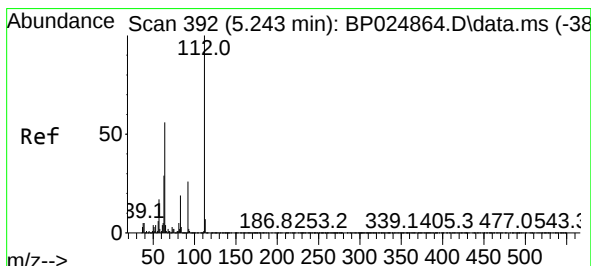
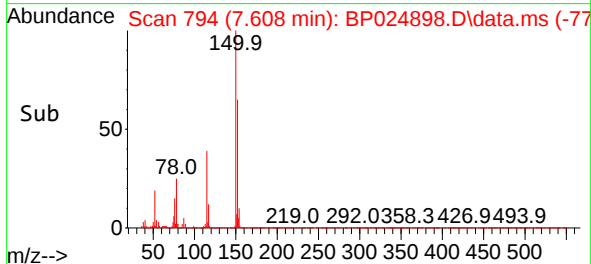
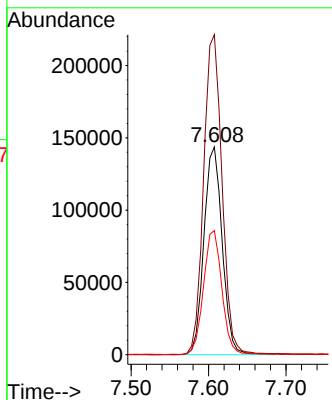
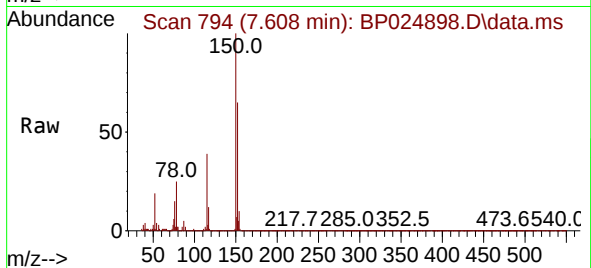




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.608 min Scan# 795
Delta R.T. -0.005 min
Lab File: BP024898.D
Acq: 10 Jun 2025 17:49

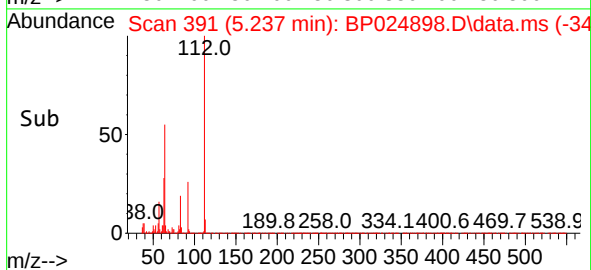
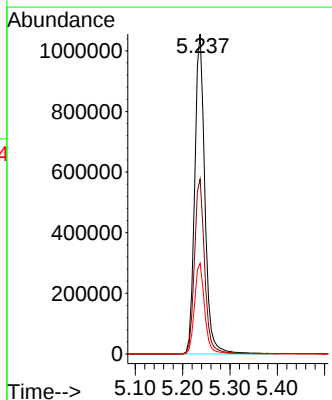
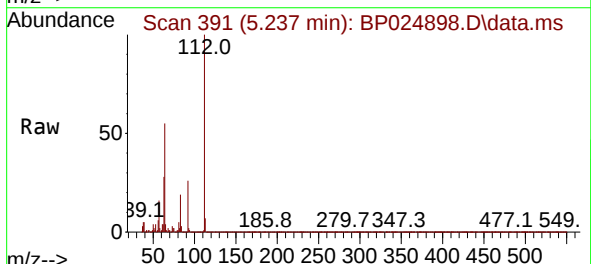
Instrument :
BNA_P
ClientSampleId :
BU-03-060525

Tgt Ion:152 Resp: 235815
Ion Ratio Lower Upper
152 100
150 154.0 122.1 183.1
115 59.8 46.4 69.6



#5
2-Fluorophenol
Concen: 111.681 ng
RT: 5.237 min Scan# 391
Delta R.T. -0.006 min
Lab File: BP024898.D
Acq: 10 Jun 2025 17:49

Tgt Ion:112 Resp: 1577762
Ion Ratio Lower Upper
112 100
64 54.7 44.7 67.1
63 28.3 23.5 35.3

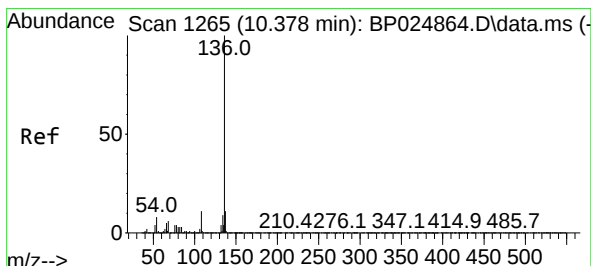
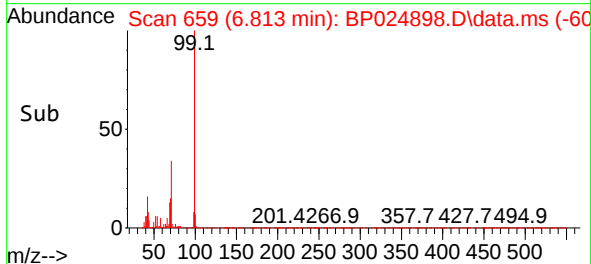
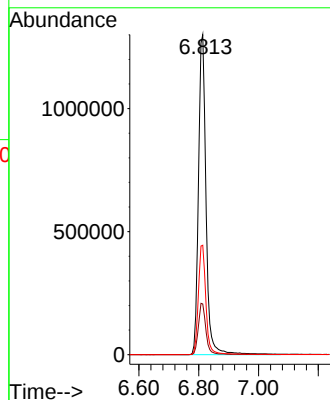
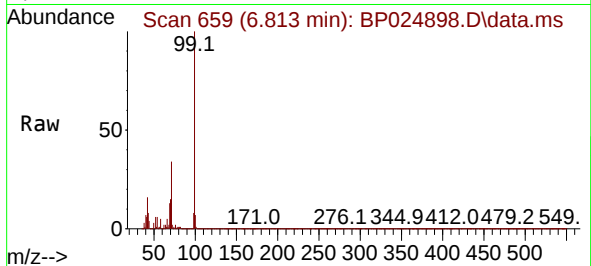




#7
Phenol-d6
Concen: 122.128 ng
RT: 6.813 min Scan# 61
Delta R.T. -0.000 min
Lab File: BP024898.D
Acq: 10 Jun 2025 17:49

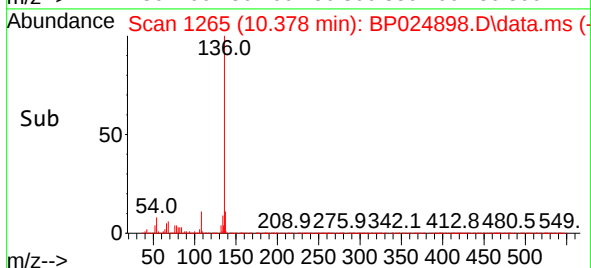
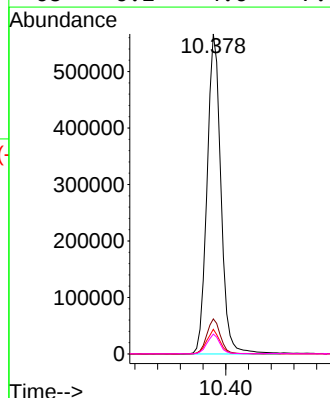
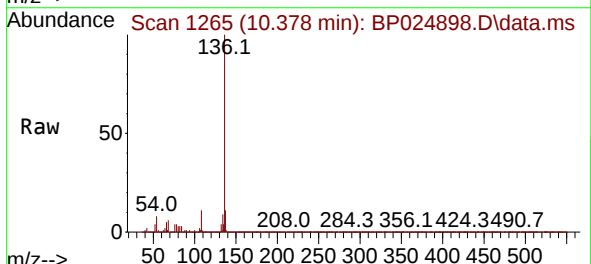
Instrument :
BNA_P
ClientSampleId :
BU-03-060525

Tgt Ion: 99 Resp: 2282826
Ion Ratio Lower Upper
99 100
42 15.9 13.4 20.2
71 34.2 27.6 41.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.378 min Scan# 1265
Delta R.T. -0.000 min
Lab File: BP024898.D
Acq: 10 Jun 2025 17:49

Tgt Ion:136 Resp: 955835
Ion Ratio Lower Upper
136 100
137 10.9 8.9 13.3
54 7.7 6.1 9.1
68 6.2 4.6 7.0

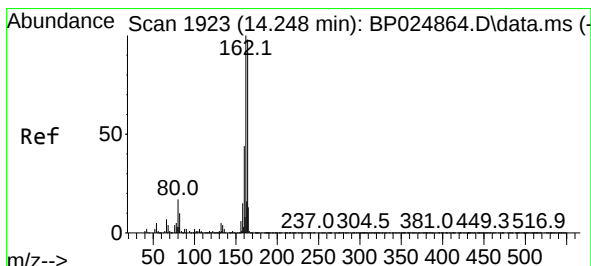
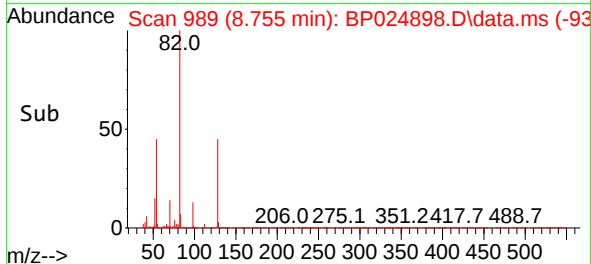
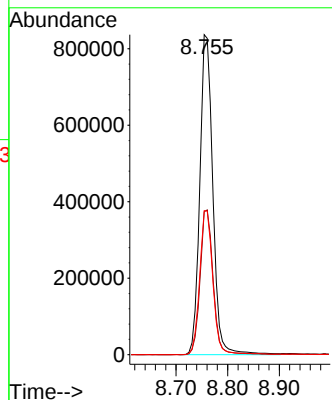
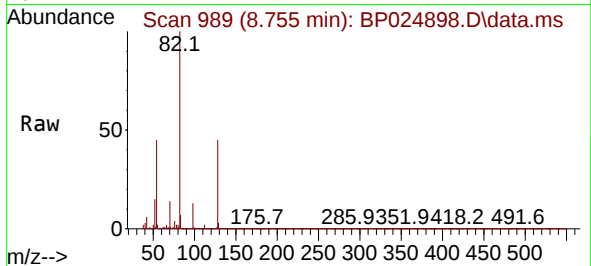




#23
Nitrobenzene-d5
Concen: 74.564 ng
RT: 8.755 min Scan# 91
Delta R.T. -0.006 min
Lab File: BP024898.D
Acq: 10 Jun 2025 17:49

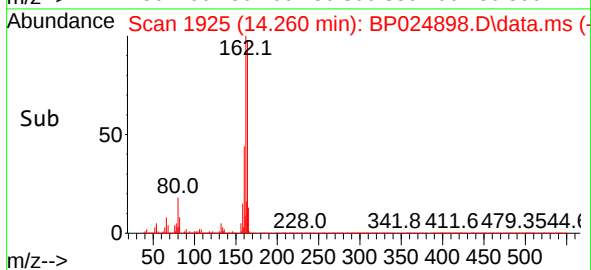
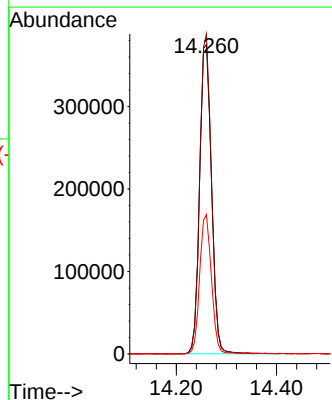
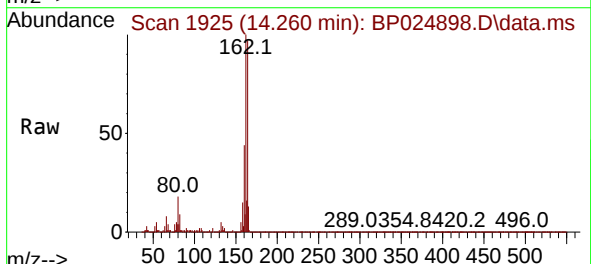
Instrument :
BNA_P
ClientSampleId :
BU-03-060525

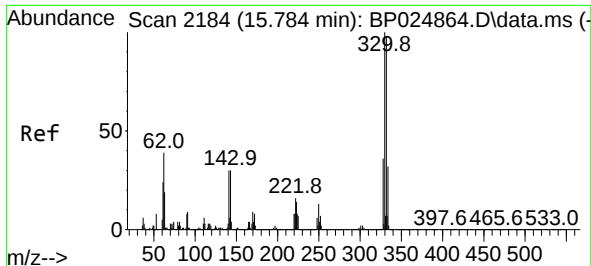
Tgt Ion: 82 Resp: 1466686
Ion Ratio Lower Upper
82 100
128 44.6 35.3 52.9
54 45.0 37.4 56.0



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.260 min Scan# 1925
Delta R.T. 0.012 min
Lab File: BP024898.D
Acq: 10 Jun 2025 17:49

Tgt Ion:164 Resp: 617371
Ion Ratio Lower Upper
164 100
162 103.5 81.6 122.4
160 45.1 36.2 54.2

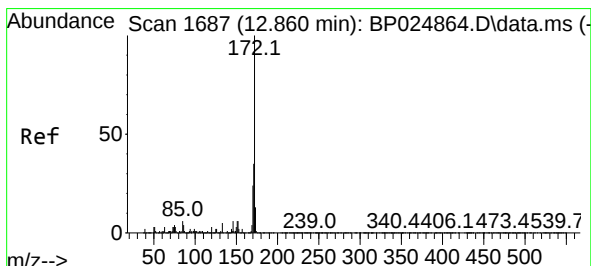
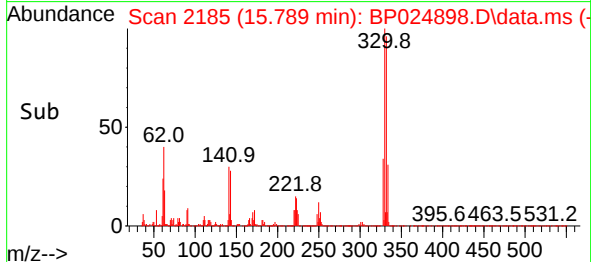
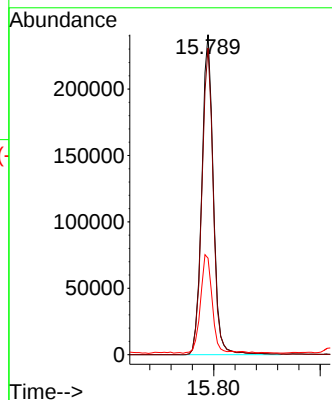
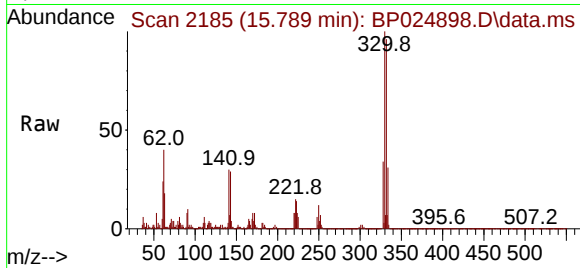




#42
2,4,6-Tribromophenol
Concen: 42.290 ng
RT: 15.789 min Scan# 2184
Delta R.T. 0.006 min
Lab File: BP024898.D
Acq: 10 Jun 2025 17:49

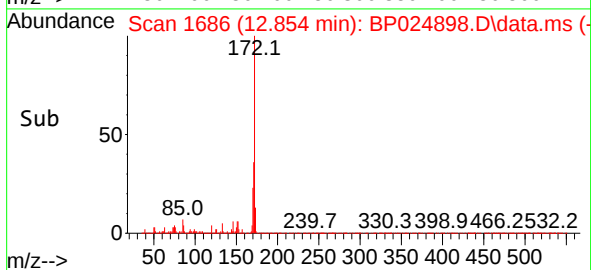
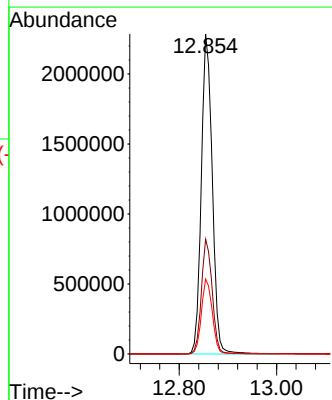
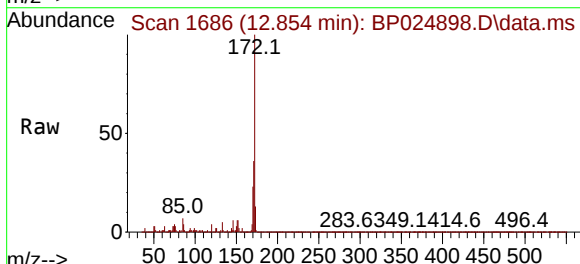
Instrument :
BNA_P
ClientSampleId :
BU-03-060525

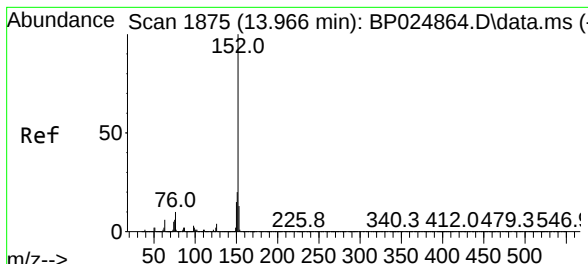
Tgt Ion:330 Resp: 360969
Ion Ratio Lower Upper
330 100
332 95.7 77.7 116.5
141 31.8 26.4 39.6



#45
2-Fluorobiphenyl
Concen: 78.178 ng
RT: 12.854 min Scan# 1686
Delta R.T. -0.006 min
Lab File: BP024898.D
Acq: 10 Jun 2025 17:49

Tgt Ion:172 Resp: 3582822
Ion Ratio Lower Upper
172 100
171 35.9 28.3 42.5
170 23.4 19.0 28.4



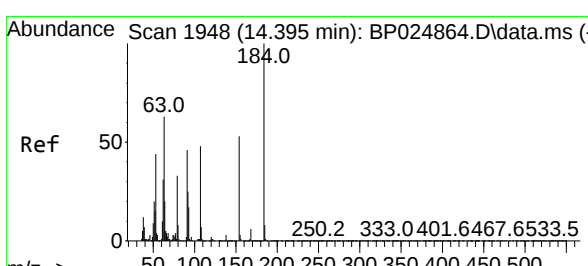
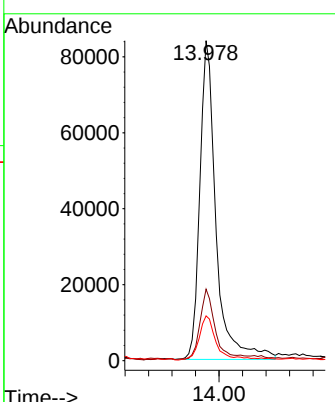
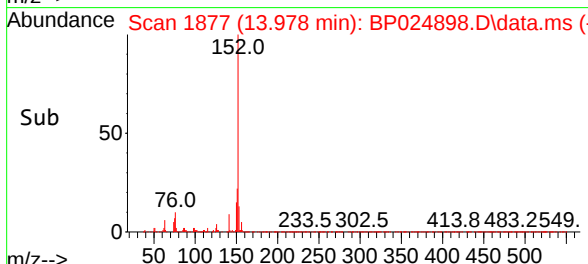
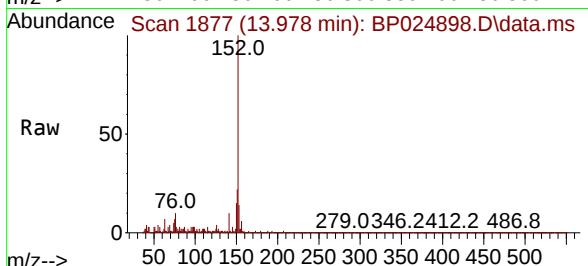


#49
 Acenaphthylene
 Concen: 2.787 ng
 RT: 13.978 min Scan# 1877
 Delta R.T. 0.012 min
 Lab File: BP024898.D
 Acq: 10 Jun 2025 17:49

Instrument : BNA_P
 ClientSampleId : BU-03-060525

Tgt Ion:152 Resp: 160234

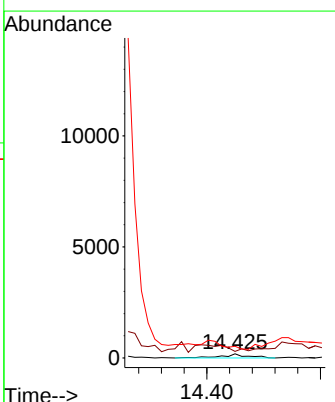
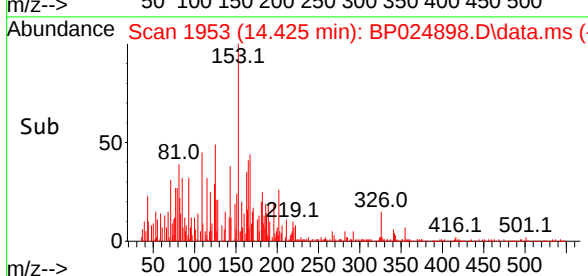
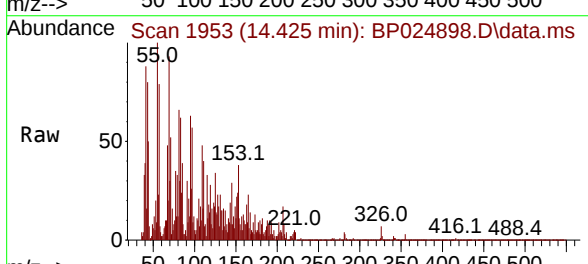
Ion	Ratio	Lower	Upper
152	100		
151	22.4	16.2	24.2
153	14.0	10.6	15.8

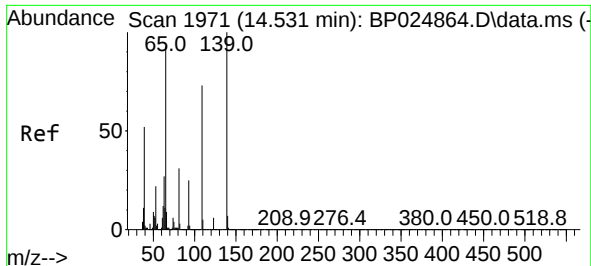


#54
 2,4-Dinitrophenol
 Concen: 5.607 ng
 RT: 14.425 min Scan# 1953
 Delta R.T. 0.030 min
 Lab File: BP024898.D
 Acq: 10 Jun 2025 17:49

Tgt Ion:184 Resp: 300

Ion	Ratio	Lower	Upper
184	100		
63	157.8	51.0	76.4#
154	280.7	51.7	77.5#

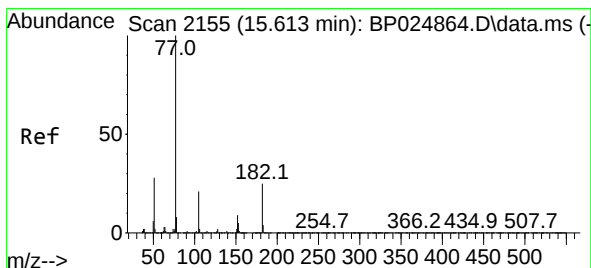
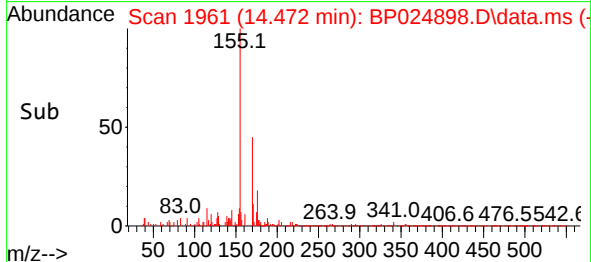
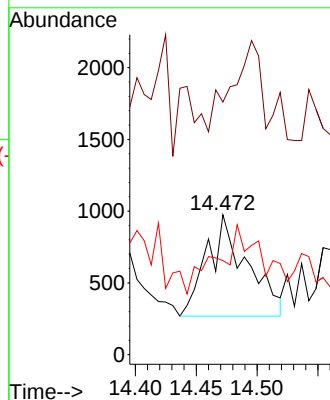
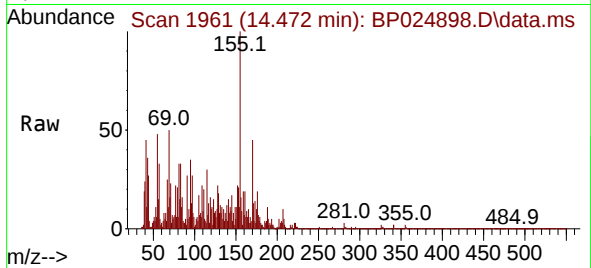




#56
4-Nitrophenol
Concen: 5.584 ng
RT: 14.472 min Scan# 1971
Delta R.T. -0.059 min
Lab File: BP024898.D
Acq: 10 Jun 2025 17:49

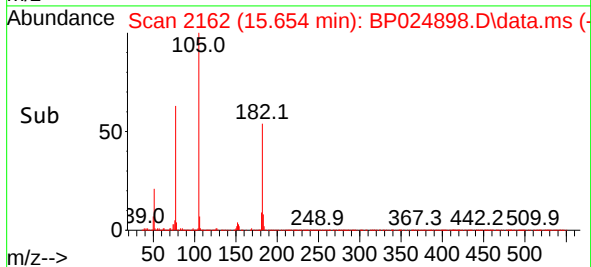
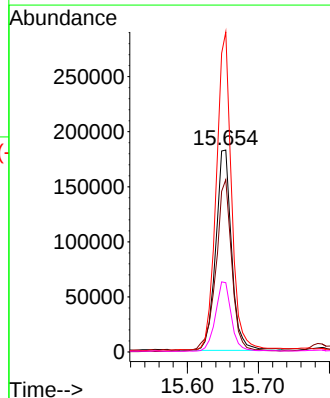
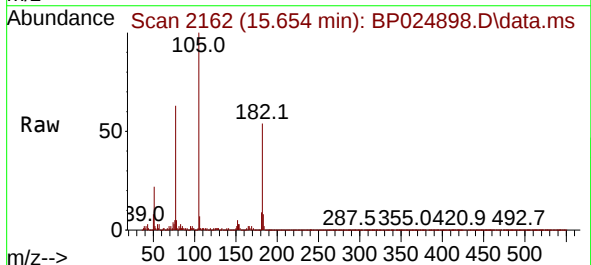
Instrument :
BNA_P
ClientSampleId :
BU-03-060525

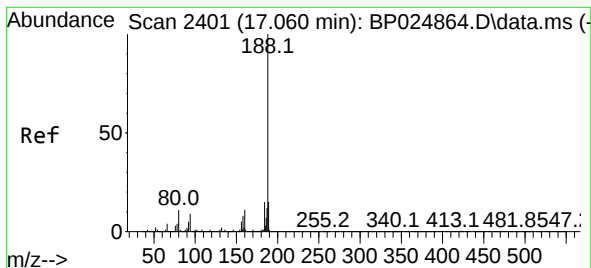
Tgt Ion:139 Resp: 1614
Ion Ratio Lower Upper
139 100
109 180.8 53.1 93.1#
65 67.4 73.0 113.0#



#63
Azobenzene
Concen: 6.774 ng
RT: 15.654 min Scan# 2162
Delta R.T. 0.041 min
Lab File: BP024898.D
Acq: 10 Jun 2025 17:49

Tgt Ion: 77 Resp: 281996
Ion Ratio Lower Upper
77 100
182 85.4 5.4 45.4#
105 158.5 0.8 40.8#
51 34.3 8.1 48.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.066 min Scan# 2401

Delta R.T. 0.006 min

Lab File: BP024898.D

Acq: 10 Jun 2025 17:49

Instrument :

BNA_P

ClientSampleId :

BU-03-060525

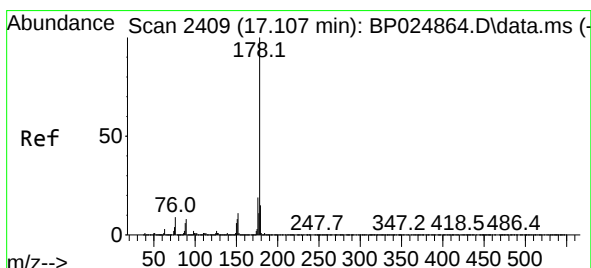
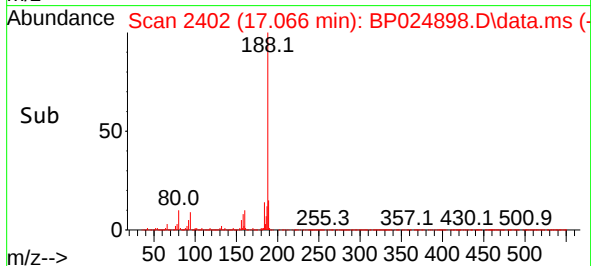
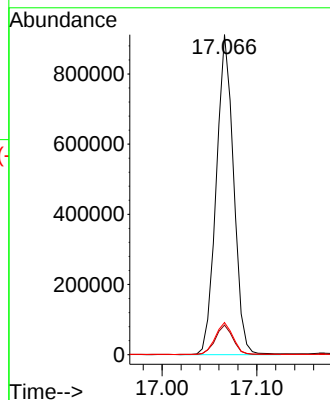
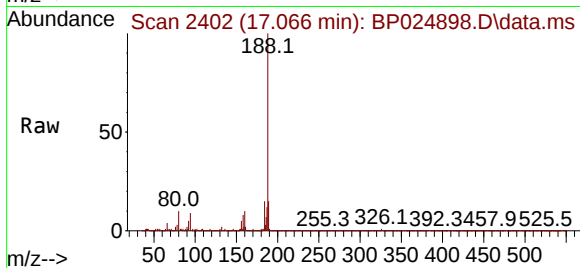
Tgt Ion:188 Resp: 1160216

Ion Ratio Lower Upper

188 100

94 9.3 7.3 10.9

80 10.1 8.5 12.7



#71

Phenanthrene

Concen: 15.235 ng

RT: 17.107 min Scan# 2409

Delta R.T. -0.000 min

Lab File: BP024898.D

Acq: 10 Jun 2025 17:49

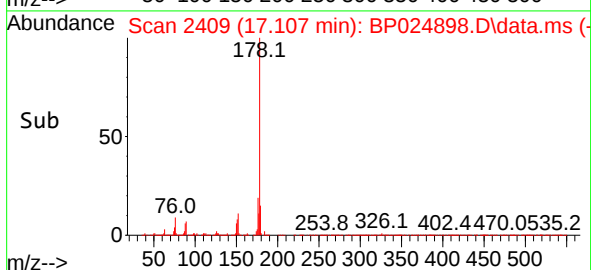
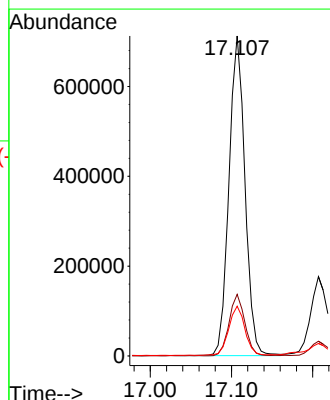
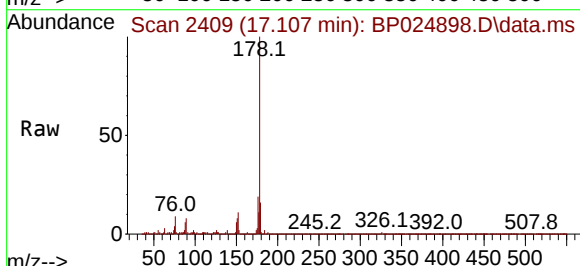
Tgt Ion:178 Resp: 976767

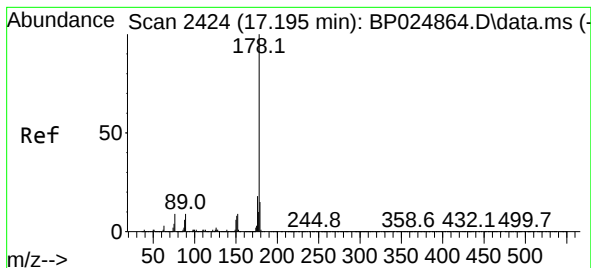
Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

179 15.6 12.1 18.1





#72

Anthracene

Concen: 4.085 ng

RT: 17.207 min Scan# 2424

Delta R.T. 0.012 min

Lab File: BP024898.D

Acq: 10 Jun 2025 17:49

Instrument :

BNA_P

ClientSampleId :

BU-03-060525

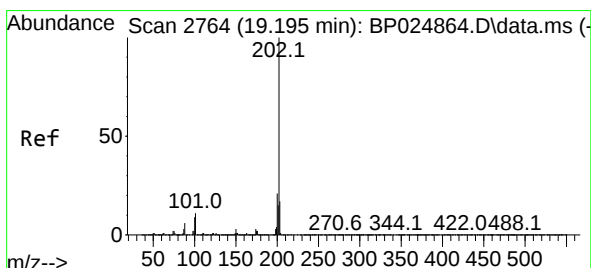
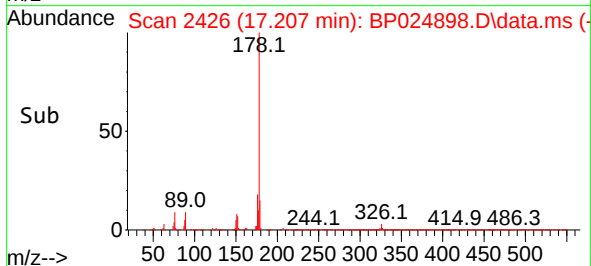
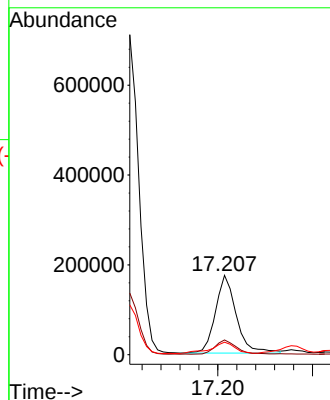
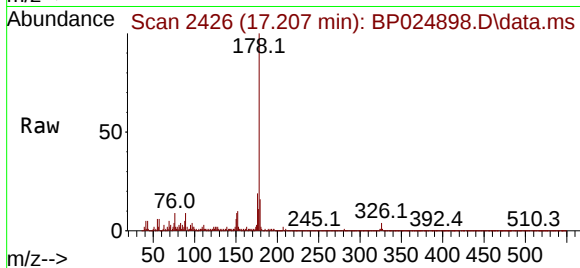
Tgt Ion:178 Resp: 265233

Ion Ratio Lower Upper

178 100

176 18.5 14.7 22.1

179 15.8 12.3 18.5



#75

Fluoranthene

Concen: 13.569 ng

RT: 19.195 min Scan# 2764

Delta R.T. -0.000 min

Lab File: BP024898.D

Acq: 10 Jun 2025 17:49

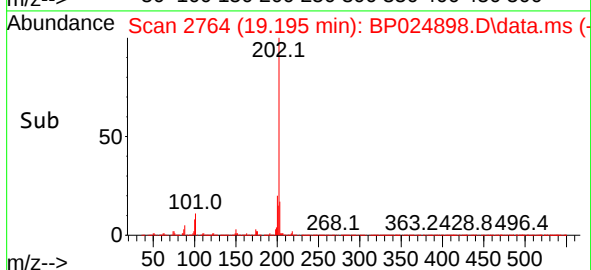
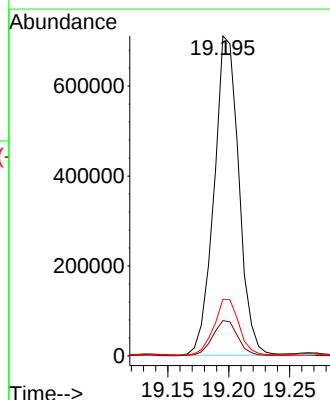
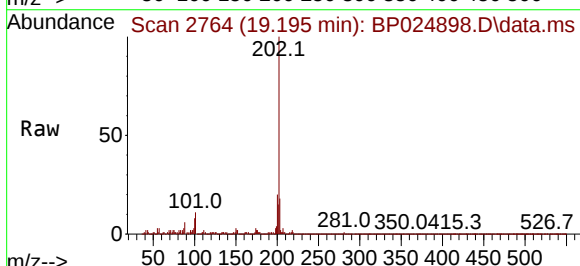
Tgt Ion:202 Resp: 1008373

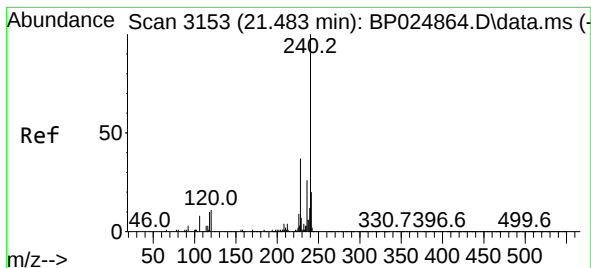
Ion Ratio Lower Upper

202 100

101 11.0 0.0 31.4

203 17.7 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.495 min Scan# 3155

Delta R.T. 0.012 min

Lab File: BP024898.D

Acq: 10 Jun 2025 17:49

Instrument :

BNA_P

ClientSampleId :

BU-03-060525

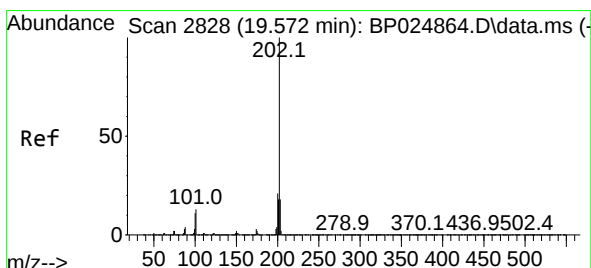
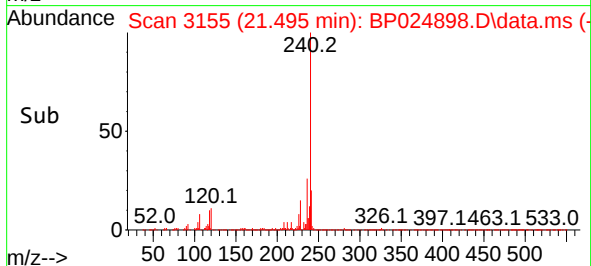
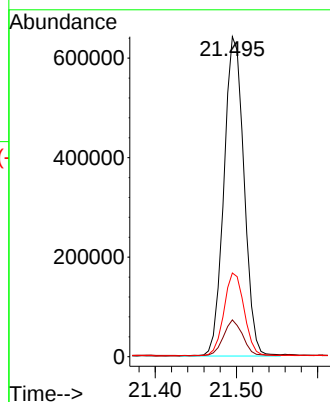
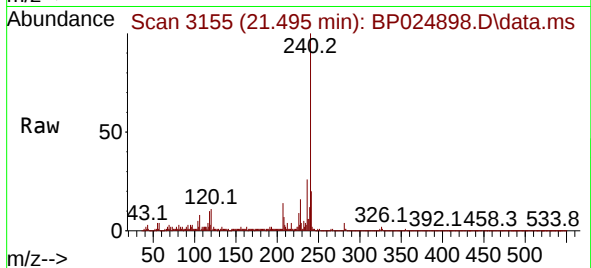
Tgt Ion:240 Resp: 1104422

Ion Ratio Lower Upper

240 100

120 11.5 8.9 13.3

236 26.2 20.9 31.3



#78

Pyrene

Concen: 19.203 ng

RT: 19.577 min Scan# 2829

Delta R.T. 0.006 min

Lab File: BP024898.D

Acq: 10 Jun 2025 17:49

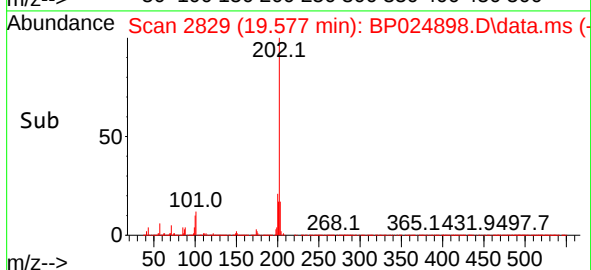
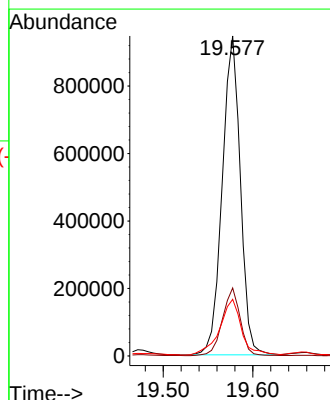
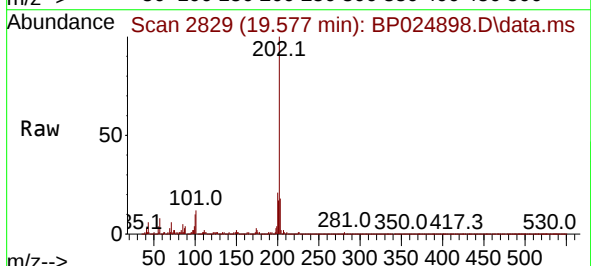
Tgt Ion:202 Resp: 1324970

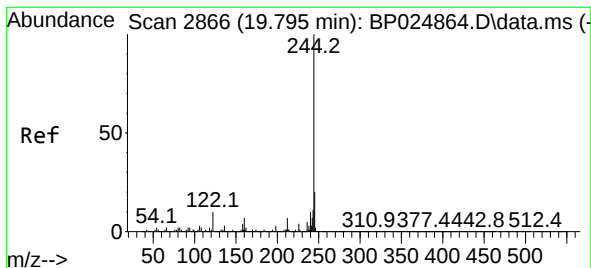
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 17.7 14.0 21.0





#79

Terphenyl-d14

Concen: 82.598 ng

RT: 19.795 min Scan# 21

Delta R.T. -0.000 min

Lab File: BP024898.D

Acq: 10 Jun 2025 17:49

Instrument :

BNA_P

ClientSampleId :

BU-03-060525

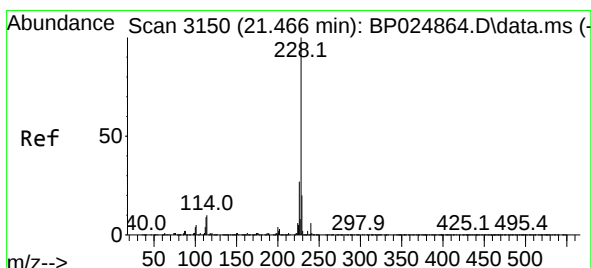
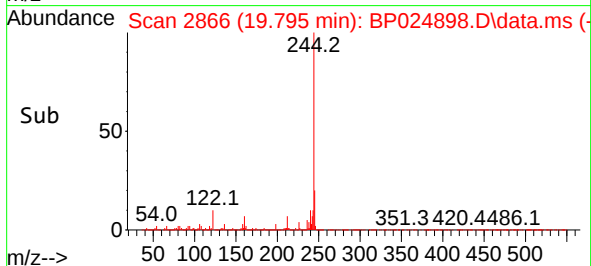
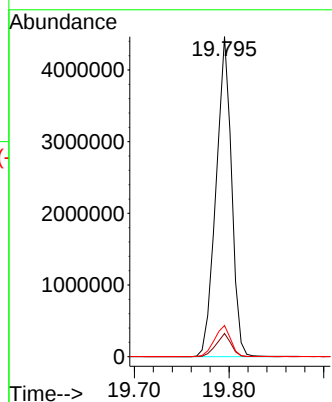
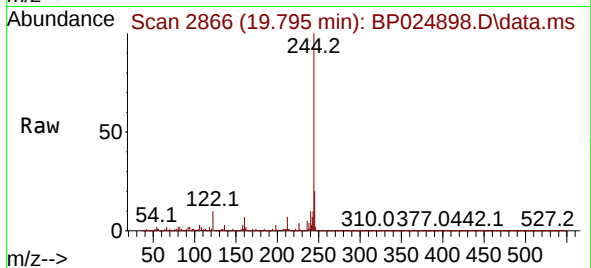
Tgt Ion:244 Resp: 5089838

Ion Ratio Lower Upper

244 100

212 7.2 5.6 8.4

122 9.8 7.7 11.5



#81

Benzo(a)anthracene

Concen: 8.294 ng

RT: 21.477 min Scan# 3152

Delta R.T. 0.012 min

Lab File: BP024898.D

Acq: 10 Jun 2025 17:49

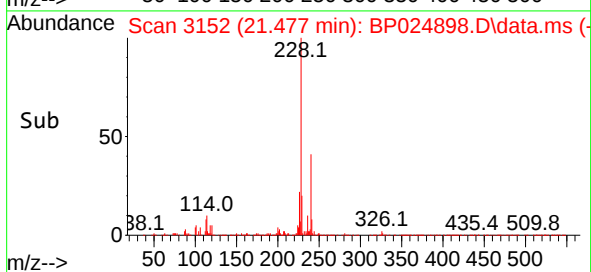
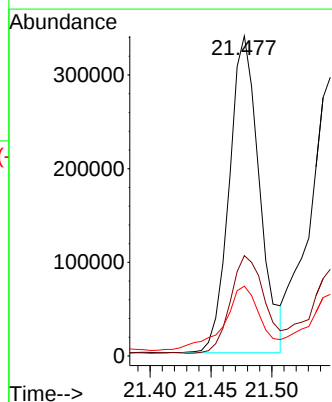
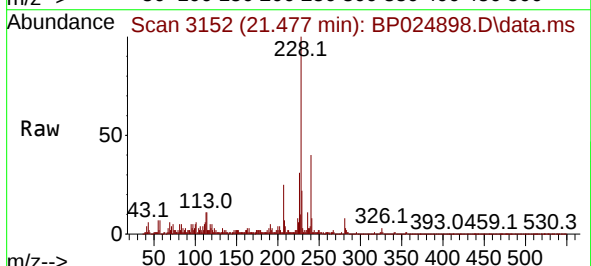
Tgt Ion:228 Resp: 585876

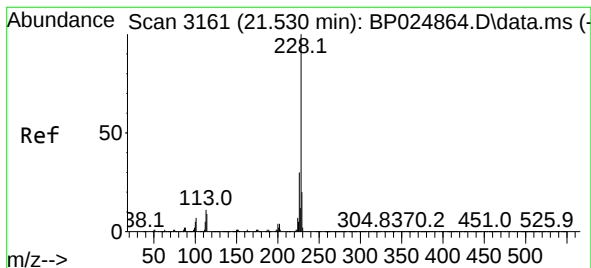
Ion Ratio Lower Upper

228 100

226 31.3 22.1 33.1

229 21.8 15.9 23.9





#83

Chrysene

Concen: 8.985 ng

RT: 21.548 min Scan# 31

Delta R.T. 0.018 min

Lab File: BP024898.D

Acq: 10 Jun 2025 17:49

Instrument :

BNA_P

ClientSampleId :

BU-03-060525

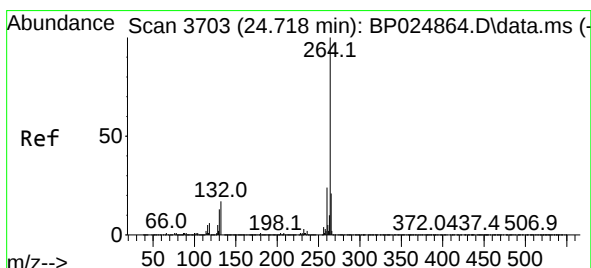
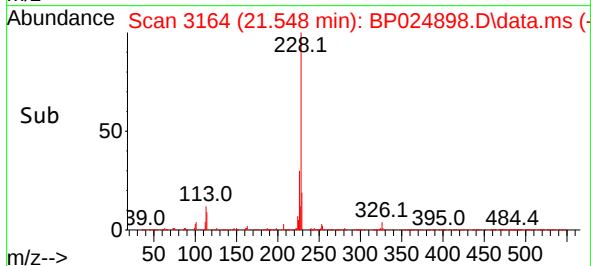
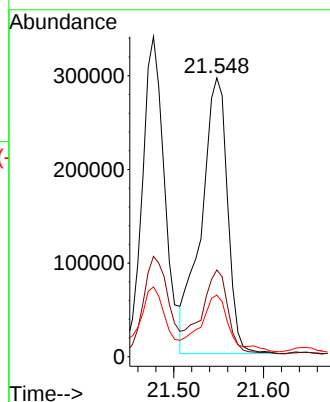
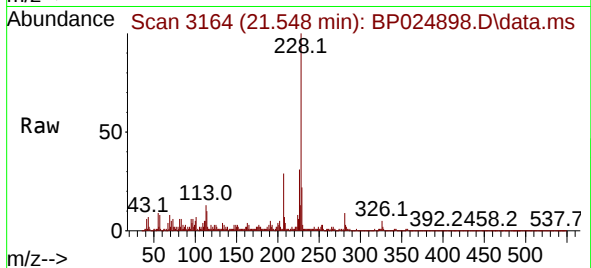
Tgt Ion:228 Resp: 601356

Ion Ratio Lower Upper

228 100

226 31.1 23.8 35.6

229 22.1 15.6 23.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.765 min Scan# 3711

Delta R.T. 0.047 min

Lab File: BP024898.D

Acq: 10 Jun 2025 17:49

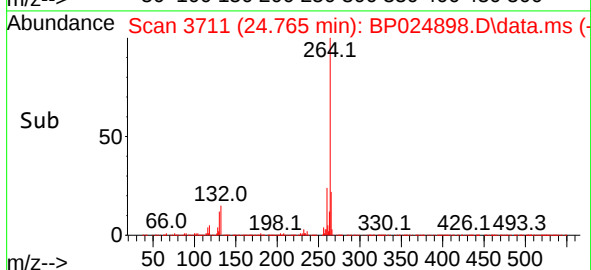
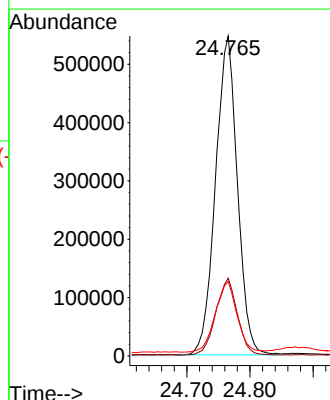
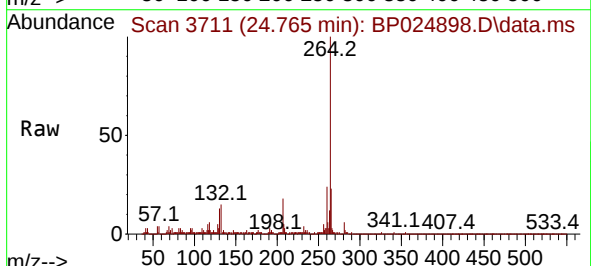
Tgt Ion:264 Resp: 1317865

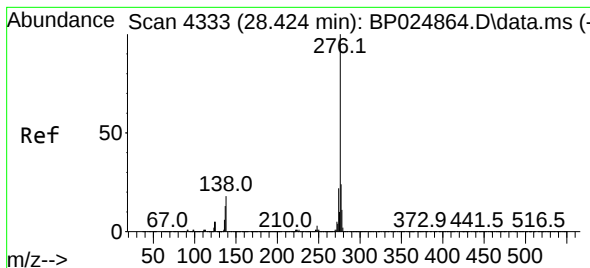
Ion Ratio Lower Upper

264 100

260 24.3 19.0 28.4

265 23.3 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.159 ng

RT: 28.453 min Scan# 41

Delta R.T. 0.029 min

Lab File: BP024898.D

Acq: 10 Jun 2025 17:49

Instrument :

BNA_P

ClientSampleId :

BU-03-060525

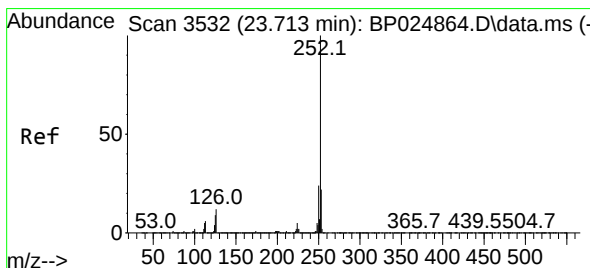
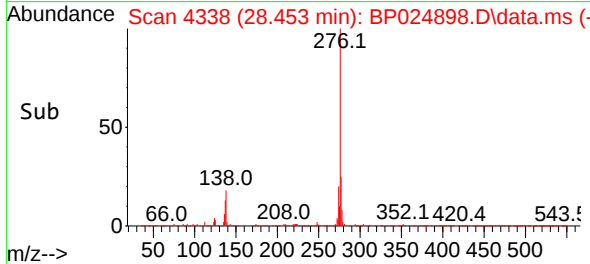
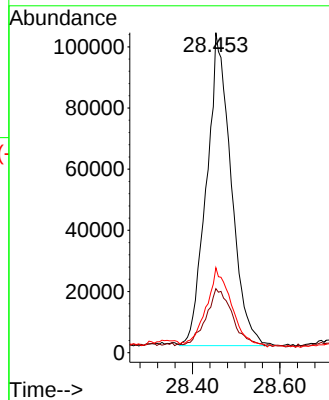
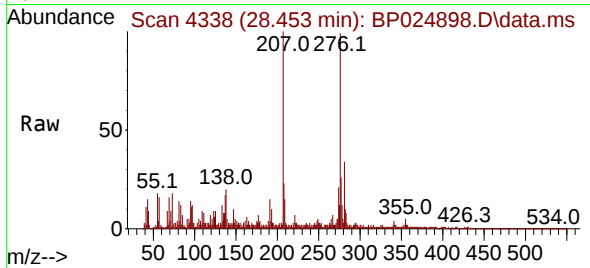
Tgt Ion:276 Resp: 399866

Ion Ratio Lower Upper

276 100

138 20.2 18.6 27.8

277 25.9 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 9.341 ng

RT: 23.736 min Scan# 3536

Delta R.T. 0.023 min

Lab File: BP024898.D

Acq: 10 Jun 2025 17:49

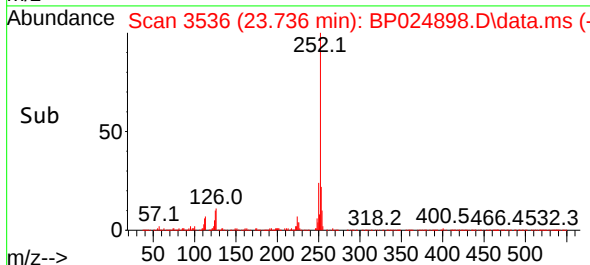
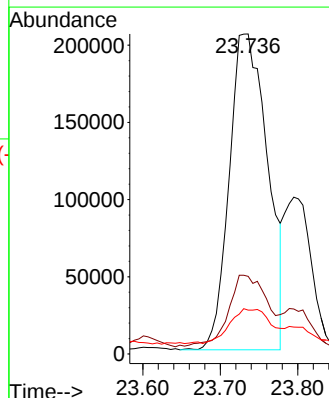
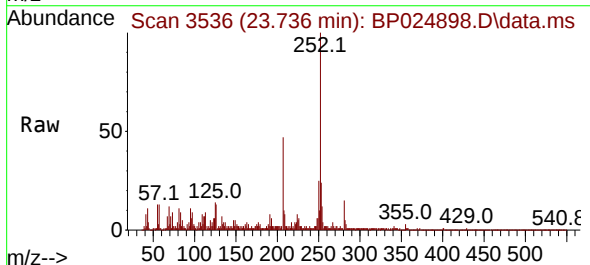
Tgt Ion:252 Resp: 704481

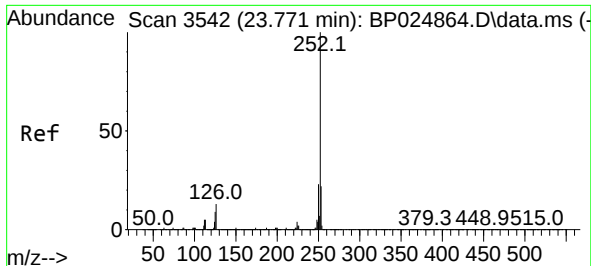
Ion Ratio Lower Upper

252 100

253 24.3 17.6 26.4

125 13.7 7.1 10.7#

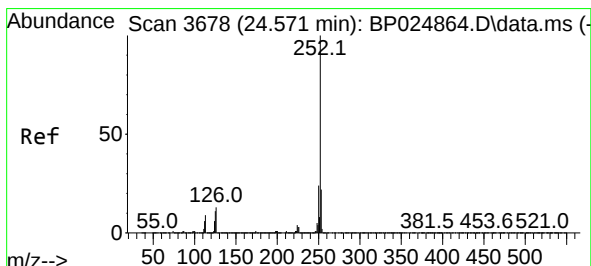
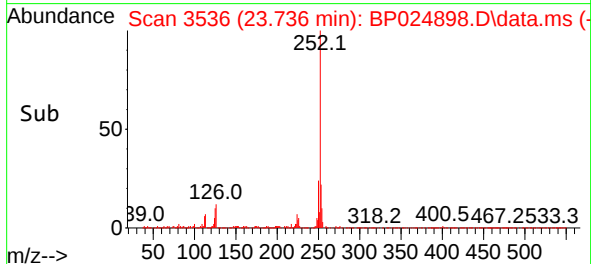
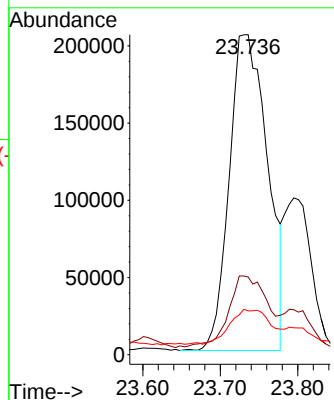
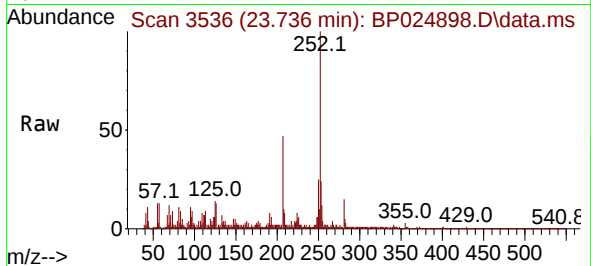




#89
Benzo(k)fluoranthene
Concen: 9.176 ng
RT: 23.736 min Scan# 3536
Delta R.T. -0.035 min
Lab File: BP024898.D
Acq: 10 Jun 2025 17:49

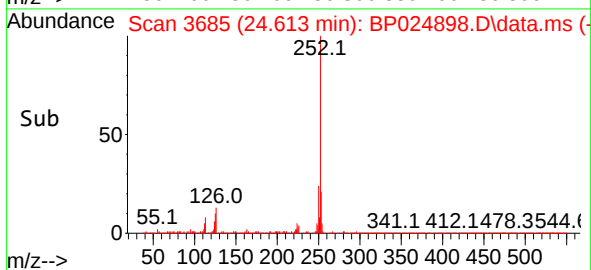
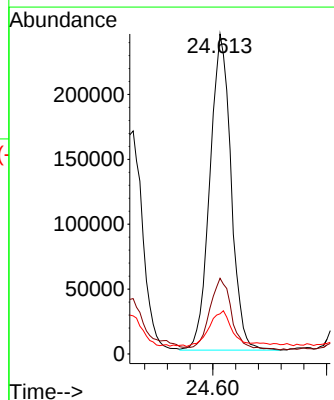
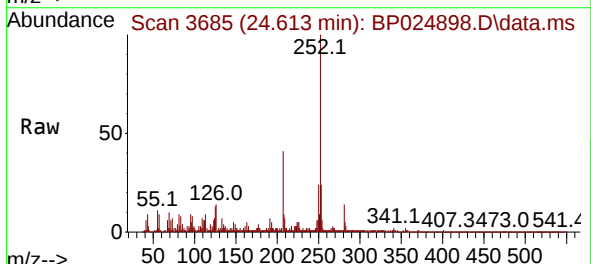
Instrument :
BNA_P
ClientSampleId :
BU-03-060525

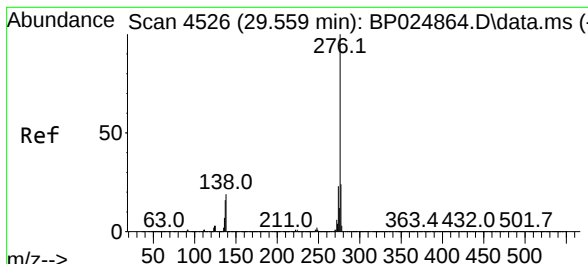
Tgt Ion:252 Resp: 704481
Ion Ratio Lower Upper
252 100
253 24.3 17.7 26.5
125 13.7 7.4 11.0#



#90
Benzo(a)pyrene
Concen: 8.531 ng
RT: 24.613 min Scan# 3685
Delta R.T. 0.041 min
Lab File: BP024898.D
Acq: 10 Jun 2025 17:49

Tgt Ion:252 Resp: 628351
Ion Ratio Lower Upper
252 100
253 23.7 17.5 26.3
125 12.5 8.8 13.2





#92
 Benzo(g,h,i)perylene
 Concen: 2.674 ng
 RT: 29.589 min Scan# 4531
 Delta R.T. 0.029 min
 Lab File: BP024898.D
 Acq: 10 Jun 2025 17:49

Instrument :
 BNA_P
 ClientSampleId :
 BU-03-060525

Tgt Ion: 276 Resp: 207642

Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.1	28.7
138	21.0	15.4	23.2

