

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061325\
 Data File : BP024953.D
 Acq On : 13 Jun 2025 20:58
 Operator : RC/JU
 Sample : Q2308-01 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 EO-02-06122025

Quant Time: Jun 13 22:45:30 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)

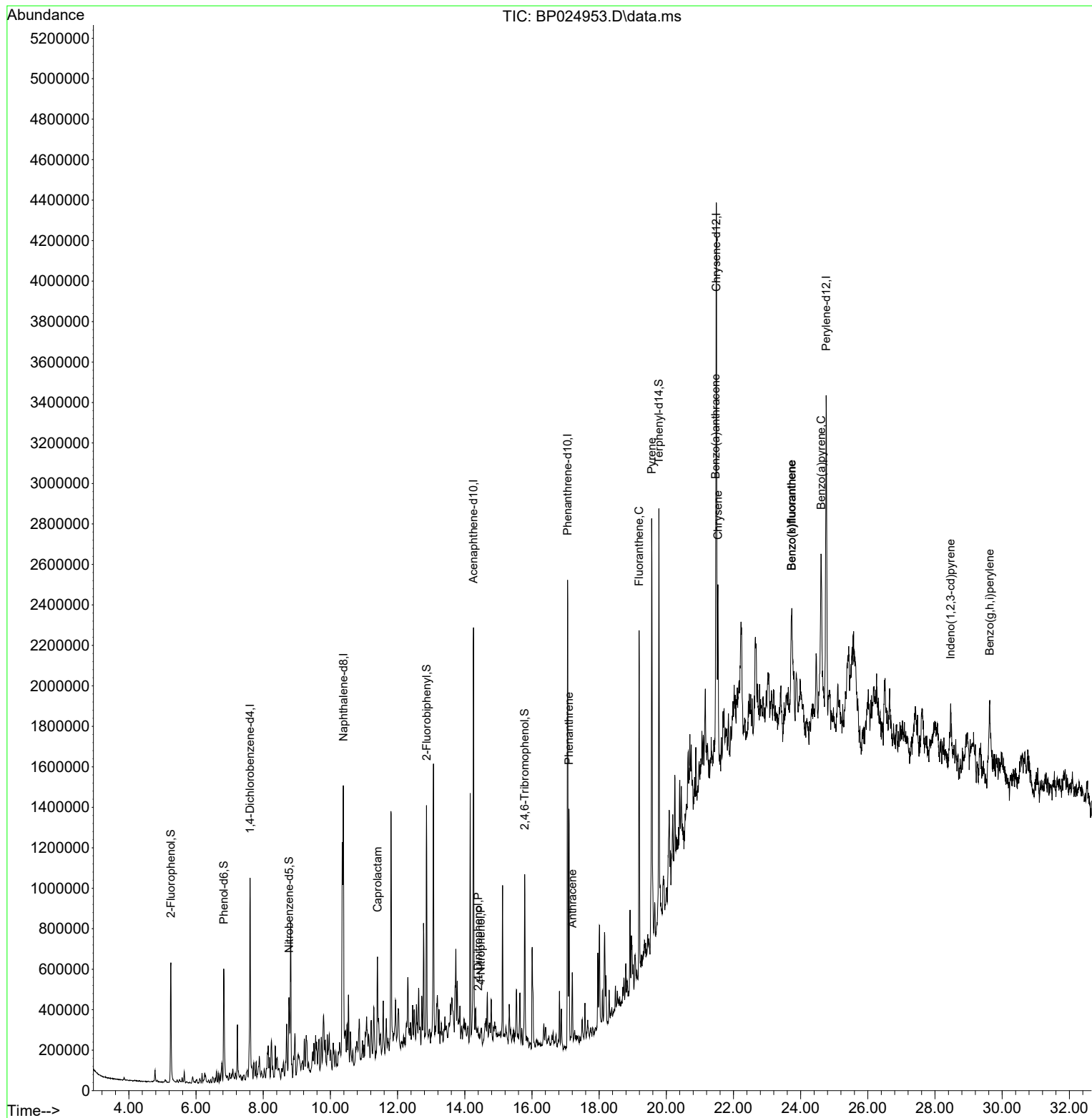
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.607	152	283004	20.000	ng	0.00
21) Naphthalene-d8	10.384	136	1124034	20.000	ng	0.00
39) Acenaphthene-d10	14.260	164	702390	20.000	ng	0.01
64) Phenanthrene-d10	17.060	188	1332533	20.000	ng	0.00
76) Chrysene-d12	21.489	240	1353824	20.000	ng	0.00
86) Perylene-d12	24.759	264	1588223	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.249	112	315294	18.597	ng	0.00
7) Phenol-d6	6.825	99	414701	18.487	ng	0.01
23) Nitrobenzene-d5	8.766	82	243480	10.526	ng	0.00
42) 2,4,6-Tribromophenol	15.784	330	183305	18.876	ng	0.00
45) 2-Fluorobiphenyl	12.860	172	607823	11.657	ng	0.00
79) Terphenyl-d14	19.777	244	904559	11.975	ng	-0.02
Target Compounds						Qvalue
35) Caprolactam	11.401	113	20459	3.338	ng	# 28
54) 2,4-Dinitrophenol	14.401	184	104	5.577	ng	# 1
56) 4-Nitrophenol	14.478	139	2241	5.622	ng	# 1
71) Phenanthrene	17.101	178	642364	8.723	ng	99
72) Anthracene	17.201	178	267664	3.589	ng	98
75) Fluoranthene	19.189	202	980237	11.485	ng	99
78) Pyrene	19.566	202	1266195	14.970	ng	99
81) Benzo(a)anthracene	21.471	228	565763	6.534	ng	97
83) Chrysene	21.536	228	543457	6.624	ng	96
87) Indeno(1,2,3-cd)pyrene	28.465	276	376711	3.251	ng	97
88) Benzo(b)fluoranthene	23.730	252	645368	7.100	ng	# 90
89) Benzo(k)fluoranthene	23.730	252	645368	6.975	ng	# 91
90) Benzo(a)pyrene	24.607	252	626443	7.057	ng	# 94
92) Benzo(g,h,i)perylene	29.630	276	443803	4.742	ng	96

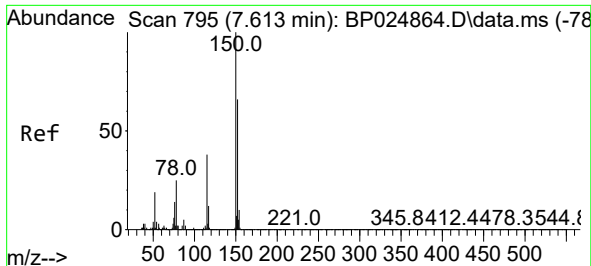
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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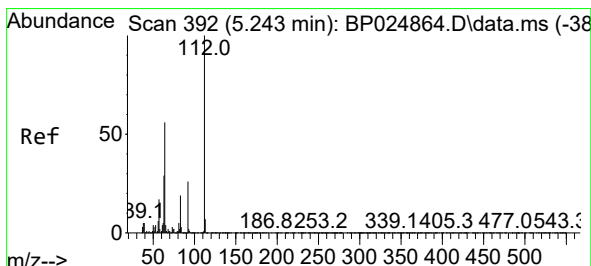
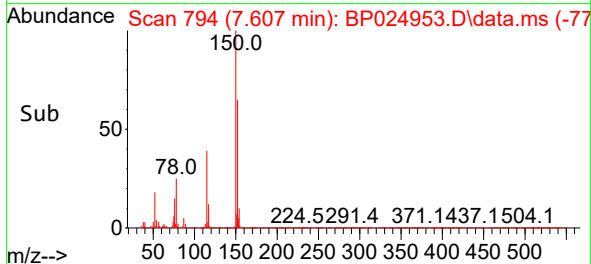
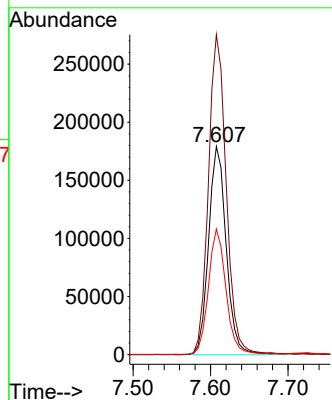
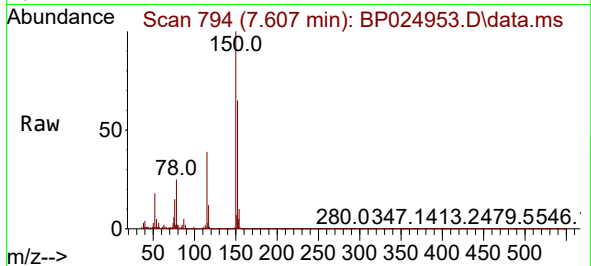




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.607 min Scan# 795
Delta R.T. -0.006 min
Lab File: BP024953.D
Acq: 13 Jun 2025 20:58

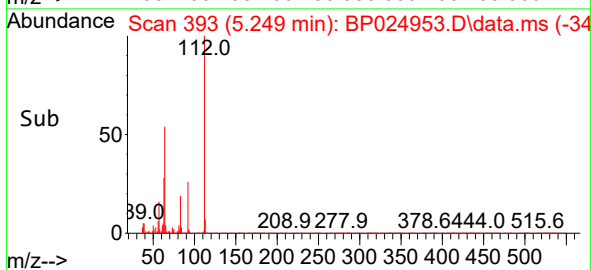
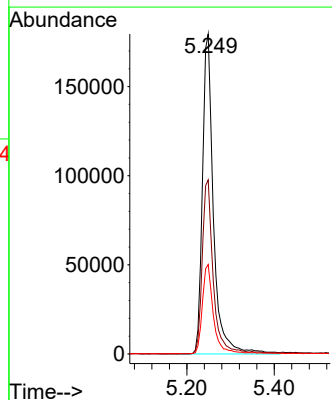
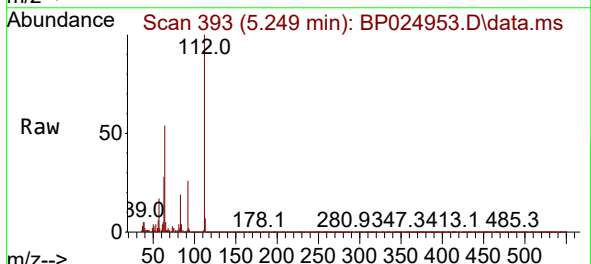
Instrument :
BNA_P
ClientSampleId :
EO-02-06122025

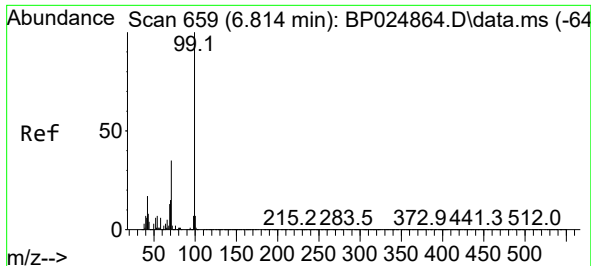
Tgt Ion:152 Resp: 283004
Ion Ratio Lower Upper
152 100
150 153.7 122.1 183.1
115 60.3 46.4 69.6



#5
2-Fluorophenol
Concen: 18.597 ng
RT: 5.249 min Scan# 393
Delta R.T. 0.006 min
Lab File: BP024953.D
Acq: 13 Jun 2025 20:58

Tgt Ion:112 Resp: 315294
Ion Ratio Lower Upper
112 100
64 54.4 44.7 67.1
63 27.9 23.5 35.3

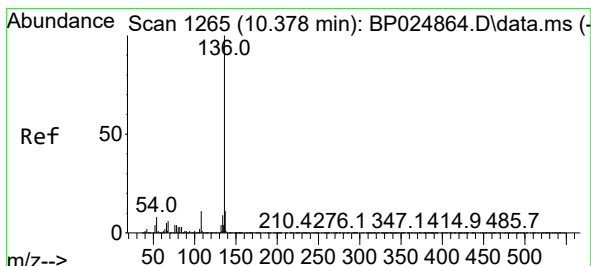
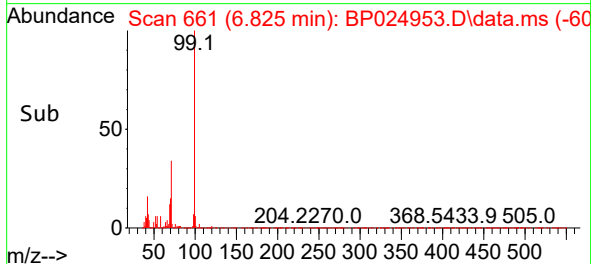
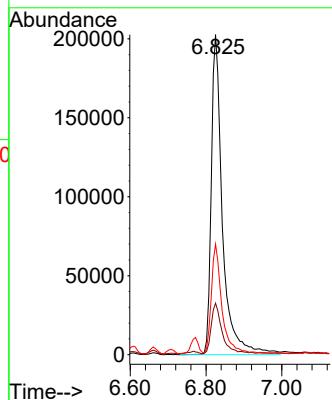
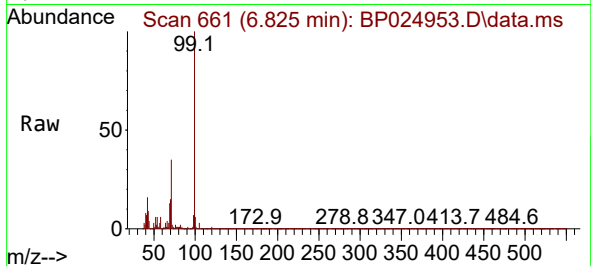




#7
Phenol-d6
Concen: 18.487 ng
RT: 6.825 min Scan# 60
Delta R.T. 0.012 min
Lab File: BP024953.D
Acq: 13 Jun 2025 20:58

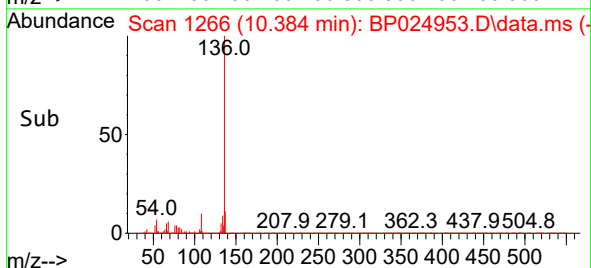
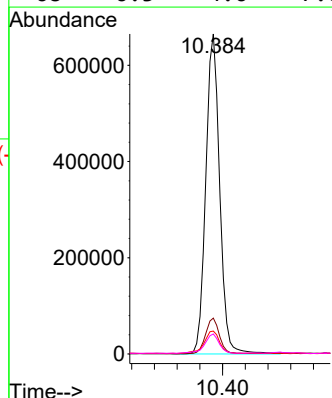
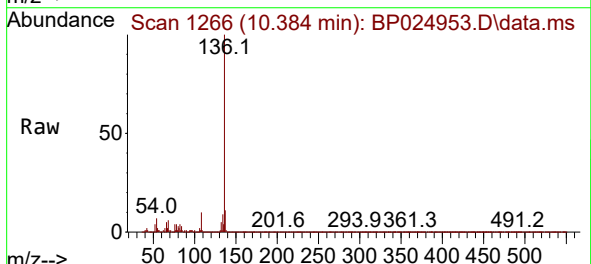
Instrument :
BNA_P
ClientSampleId :
EO-02-06122025

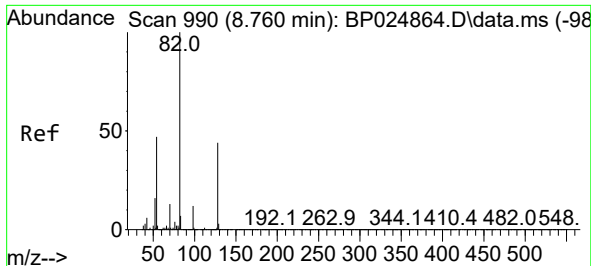
Tgt Ion: 99 Resp: 414701
Ion Ratio Lower Upper
99 100
42 16.1 13.4 20.2
71 34.5 27.6 41.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.384 min Scan# 1266
Delta R.T. 0.006 min
Lab File: BP024953.D
Acq: 13 Jun 2025 20:58

Tgt Ion:136 Resp: 1124034
Ion Ratio Lower Upper
136 100
137 11.2 8.9 13.3
54 7.2 6.1 9.1
68 6.3 4.6 7.0

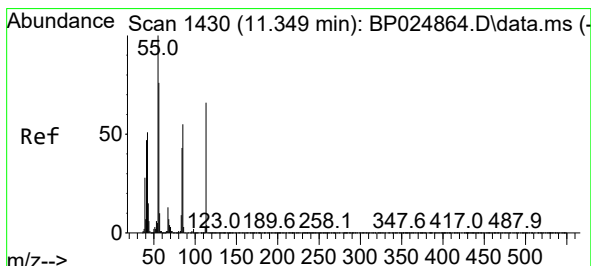
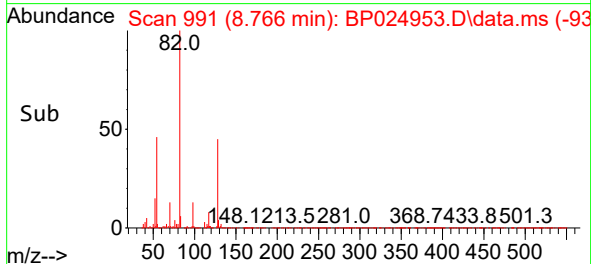
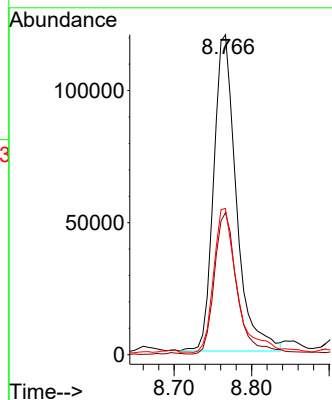
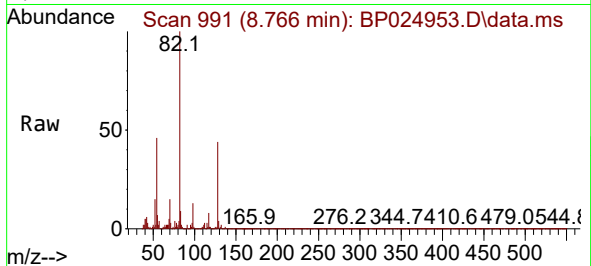




#23
Nitrobenzene-d5
Concen: 10.526 ng
RT: 8.766 min Scan# 991
Delta R.T. 0.006 min
Lab File: BP024953.D
Acq: 13 Jun 2025 20:58

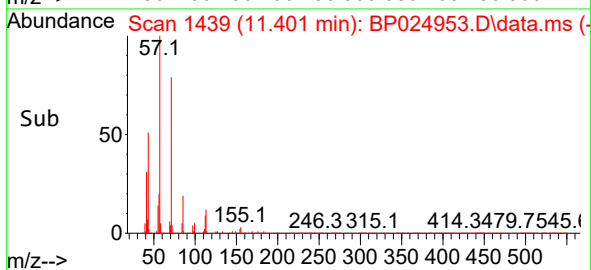
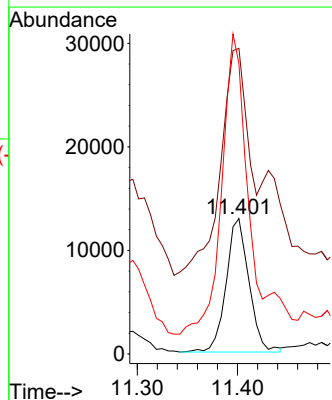
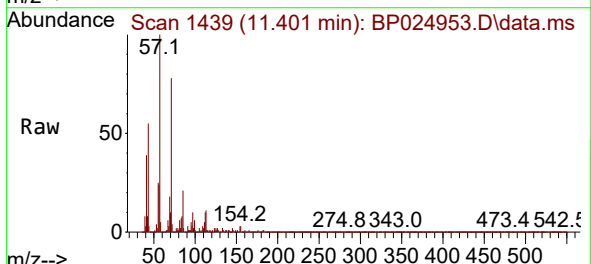
Instrument :
BNA_P
ClientSampleId :
EO-02-06122025

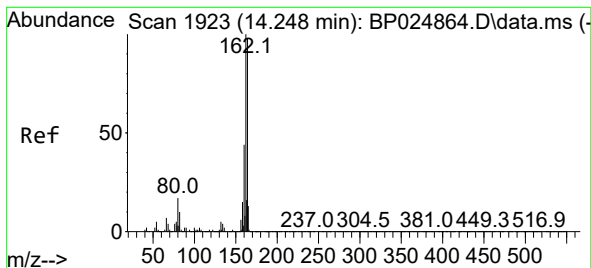
Tgt Ion: 82 Resp: 243480
Ion Ratio Lower Upper
82 100
128 44.4 35.3 52.9
54 45.7 37.4 56.0



#35
Caprolactam
Concen: 3.338 ng
RT: 11.401 min Scan# 1439
Delta R.T. 0.053 min
Lab File: BP024953.D
Acq: 13 Jun 2025 20:58

Tgt Ion: 113 Resp: 20459
Ion Ratio Lower Upper
113 100
55 225.7 132.5 172.5#
56 214.6 96.0 136.0#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.260 min Scan# 1923

Delta R.T. 0.012 min

Lab File: BP024953.D

Acq: 13 Jun 2025 20:58

Instrument :

BNA_P

ClientSampleId :

EO-02-06122025

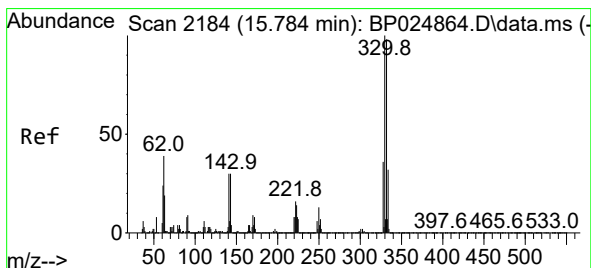
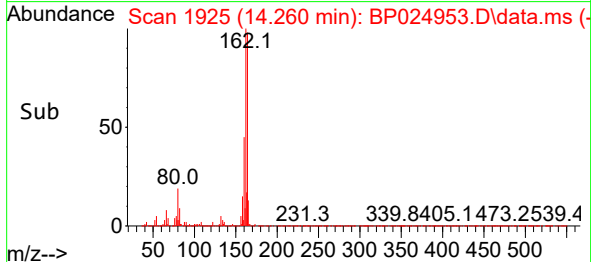
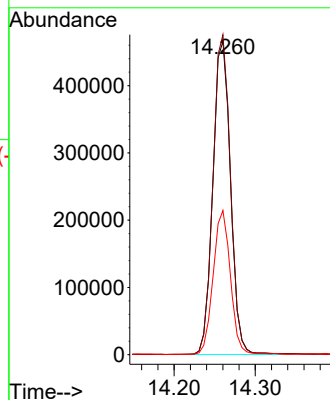
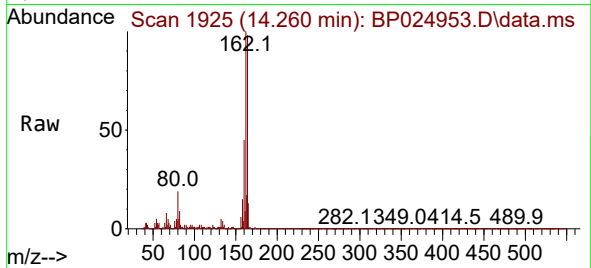
Tgt Ion:164 Resp: 702390

Ion Ratio Lower Upper

164 100

162 102.1 81.6 122.4

160 46.0 36.2 54.2



#42

2,4,6-Tribromophenol

Concen: 18.876 ng

RT: 15.784 min Scan# 2184

Delta R.T. -0.000 min

Lab File: BP024953.D

Acq: 13 Jun 2025 20:58

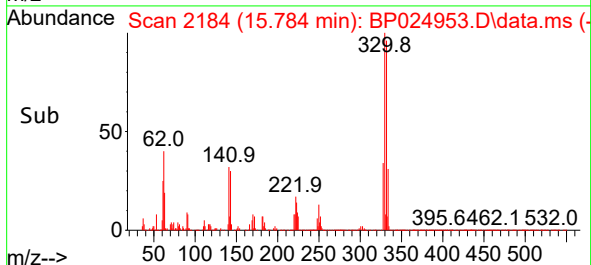
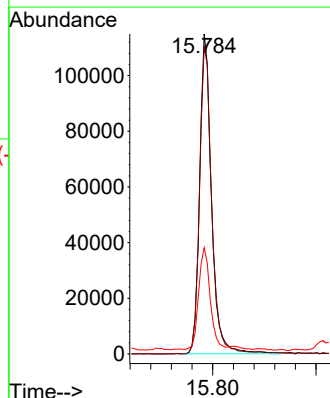
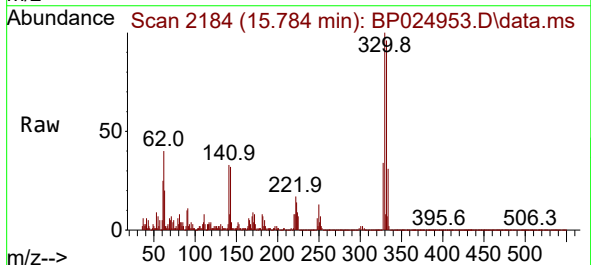
Tgt Ion:330 Resp: 183305

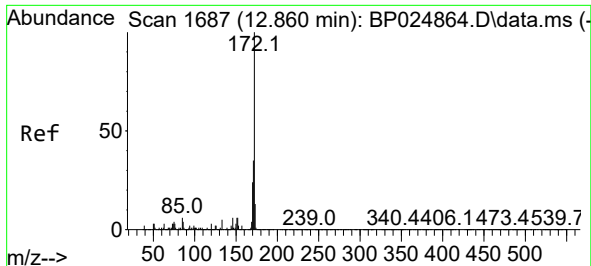
Ion Ratio Lower Upper

330 100

332 97.5 77.7 116.5

141 30.7 26.4 39.6

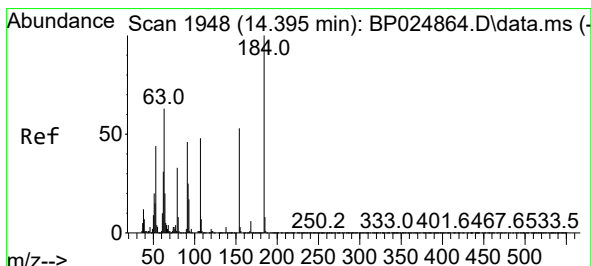
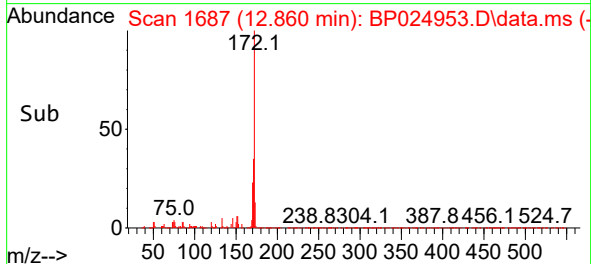
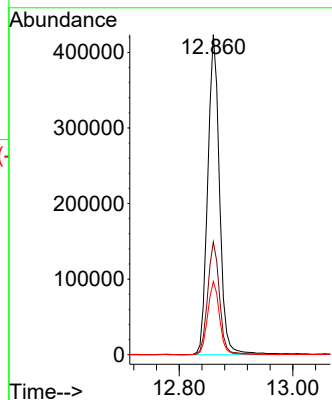
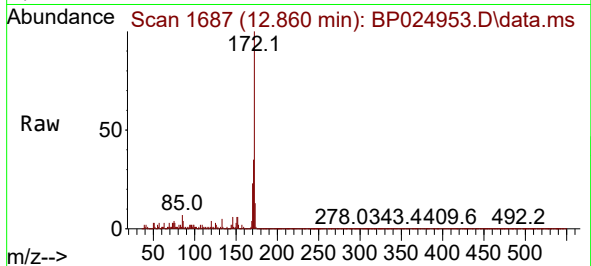




#45
2-Fluorobiphenyl
Concen: 11.657 ng
RT: 12.860 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024953.D
Acq: 13 Jun 2025 20:58

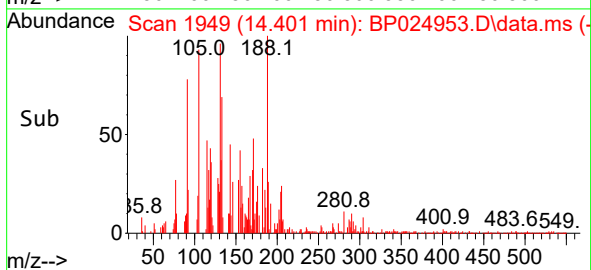
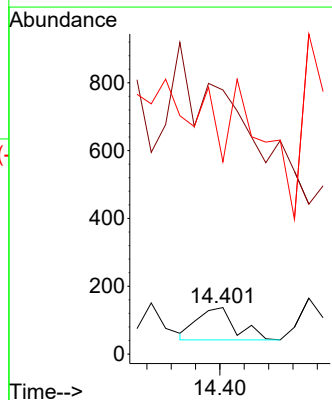
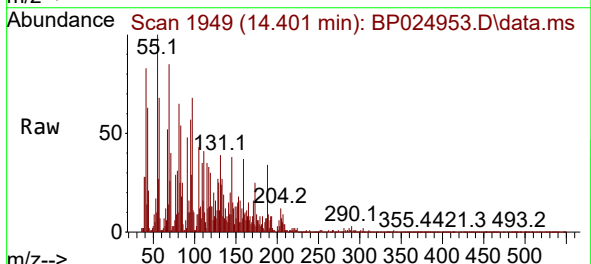
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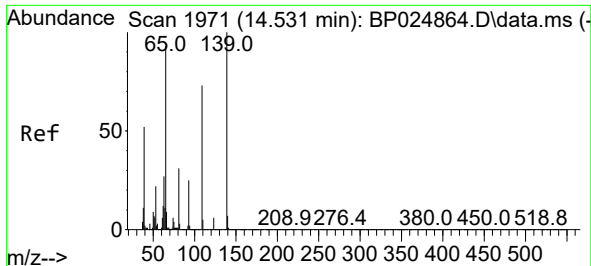
Tgt Ion:172 Resp: 607823
Ion Ratio Lower Upper
172 100
171 35.3 28.3 42.5
170 22.9 19.0 28.4



#54
2,4-Dinitrophenol
Concen: 5.577 ng
RT: 14.401 min Scan# 1949
Delta R.T. 0.006 min
Lab File: BP024953.D
Acq: 13 Jun 2025 20:58

Tgt Ion:184 Resp: 104
Ion Ratio Lower Upper
184 100
63 568.6 51.0 76.4#
154 413.9 51.7 77.5#

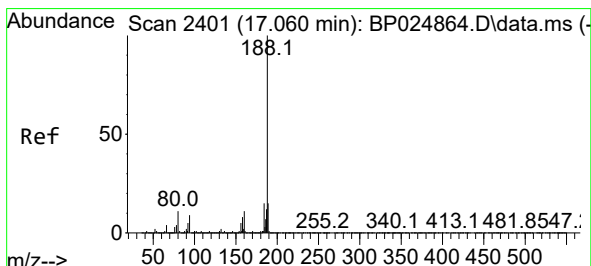
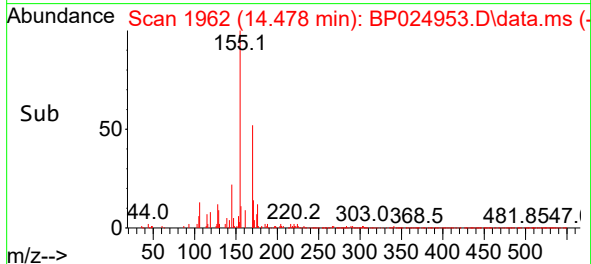
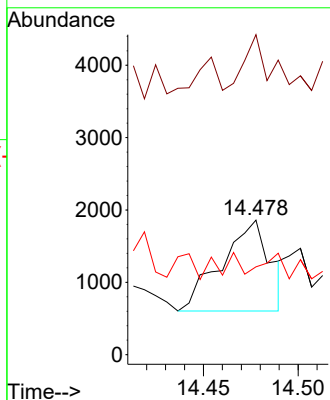
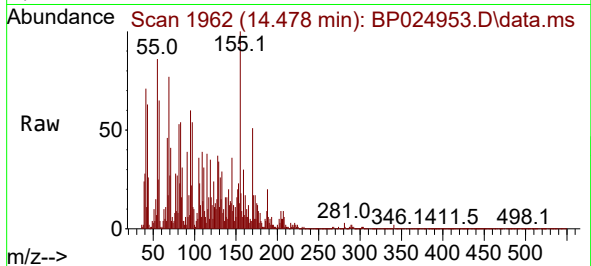




#56
4-Nitrophenol
Concen: 5.622 ng
RT: 14.478 min Scan# 1971
Delta R.T. -0.053 min
Lab File: BP024953.D
Acq: 13 Jun 2025 20:58

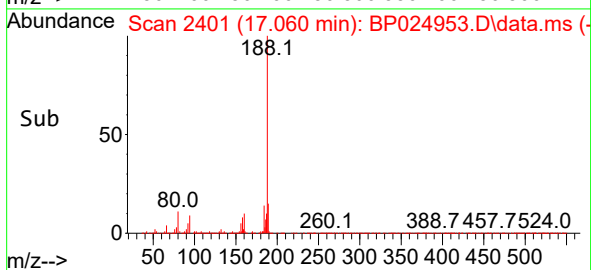
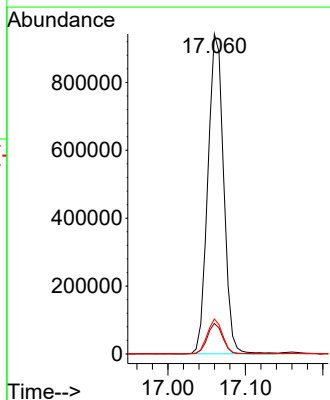
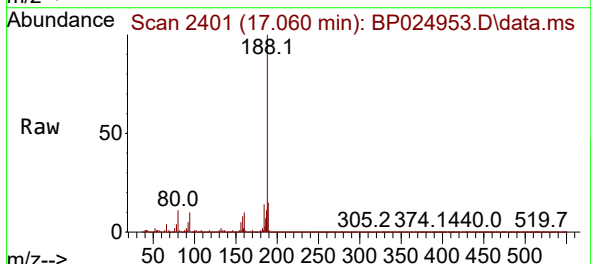
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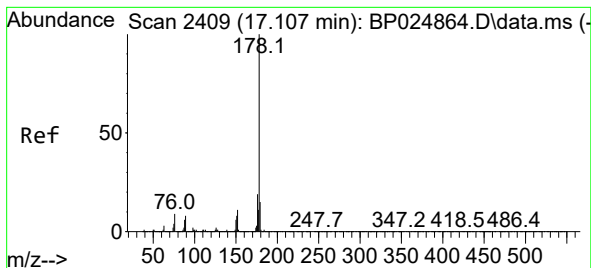
Tgt Ion:139 Resp: 2241
Ion Ratio Lower Upper
139 100
109 237.9 53.1 93.1#
65 65.3 73.0 113.0#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.060 min Scan# 2401
Delta R.T. -0.000 min
Lab File: BP024953.D
Acq: 13 Jun 2025 20:58

Tgt Ion:188 Resp: 1332533
Ion Ratio Lower Upper
188 100
94 9.6 7.3 10.9
80 10.9 8.5 12.7





#71

Phenanthrene

Concen: 8.723 ng

RT: 17.101 min Scan# 2409

Delta R.T. -0.006 min

Lab File: BP024953.D

Acq: 13 Jun 2025 20:58

Instrument :

BNA_P

ClientSampleId :

EO-02-06122025

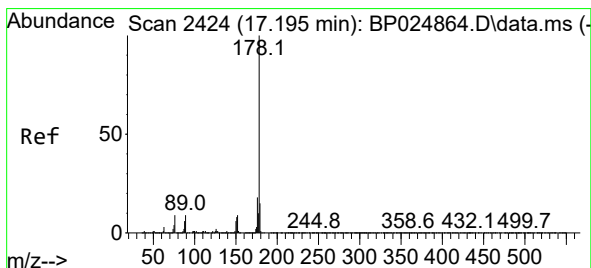
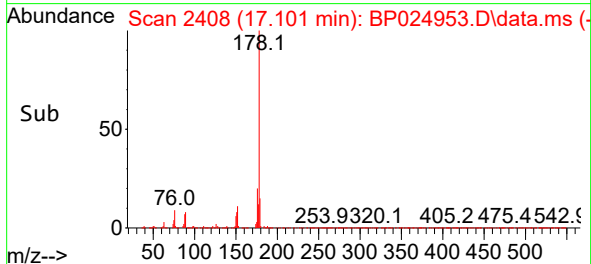
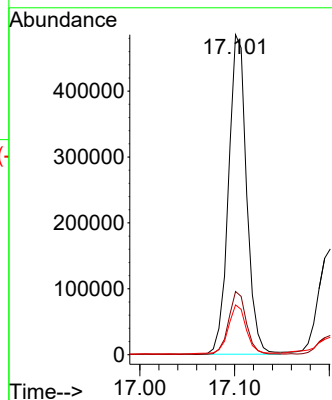
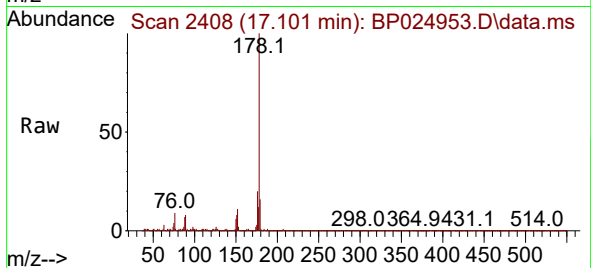
Tgt Ion:178 Resp: 642364

Ion Ratio Lower Upper

178 100

176 19.8 15.3 22.9

179 15.5 12.1 18.1



#72

Anthracene

Concen: 3.589 ng

RT: 17.201 min Scan# 2425

Delta R.T. 0.006 min

Lab File: BP024953.D

Acq: 13 Jun 2025 20:58

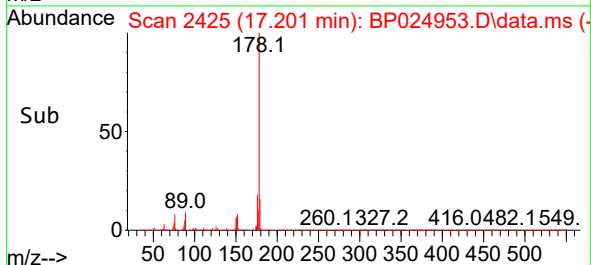
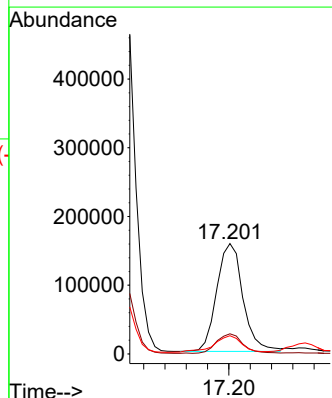
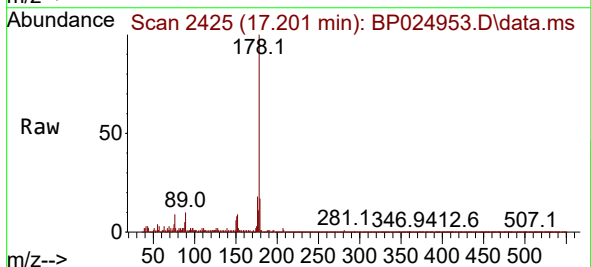
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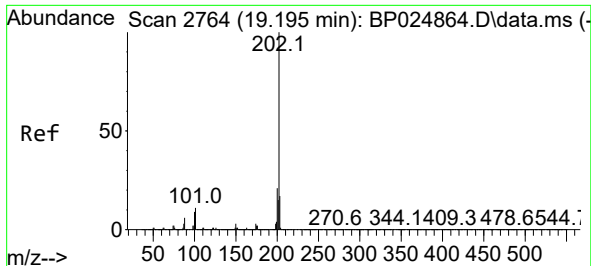
Ion Ratio Lower Upper

178 100

176 18.2 14.7 22.1

179 16.6 12.3 18.5

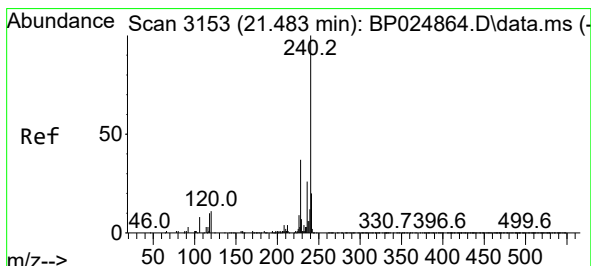
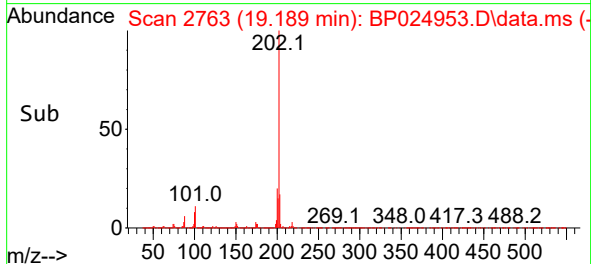
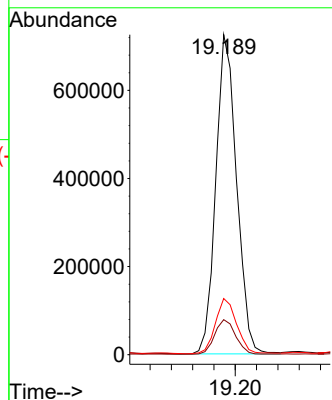
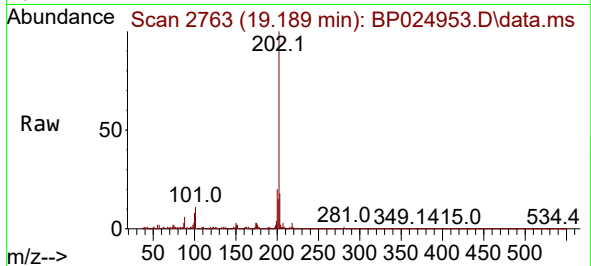




#75
Fluoranthene
Concen: 11.485 ng
RT: 19.189 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024953.D
Acq: 13 Jun 2025 20:58

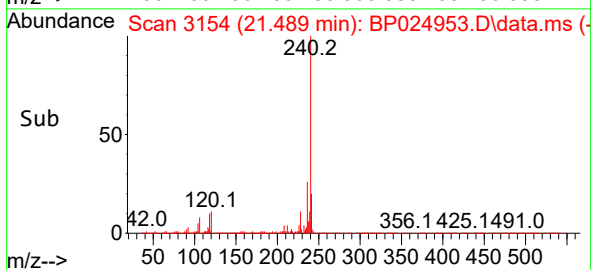
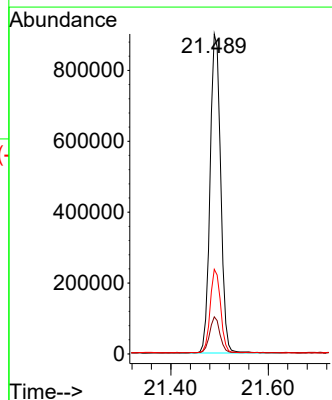
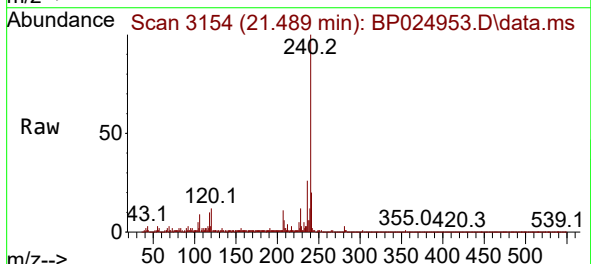
Instrument :
BNA_P
ClientSampleId :
EO-02-06122025

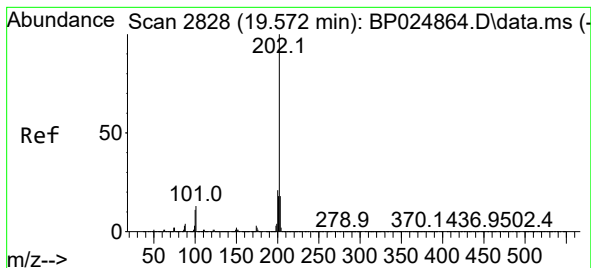
Tgt Ion:202 Resp: 980237
Ion Ratio Lower Upper
202 100
101 10.9 0.0 31.4
203 17.6 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.489 min Scan# 3154
Delta R.T. 0.006 min
Lab File: BP024953.D
Acq: 13 Jun 2025 20:58

Tgt Ion:240 Resp: 1353824
Ion Ratio Lower Upper
240 100
120 11.6 8.9 13.3
236 26.4 20.9 31.3





#78

Pyrene

Concen: 14.970 ng

RT: 19.566 min Scan# 2827

Delta R.T. -0.006 min

Lab File: BP024953.D

Acq: 13 Jun 2025 20:58

Instrument :

BNA_P

ClientSampleId :

EO-02-06122025

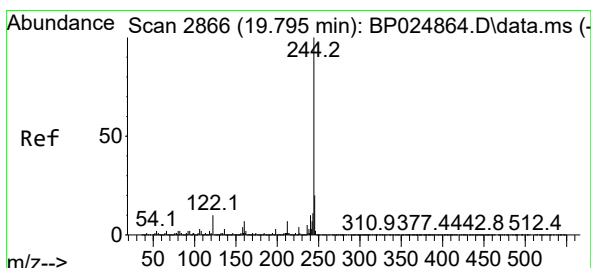
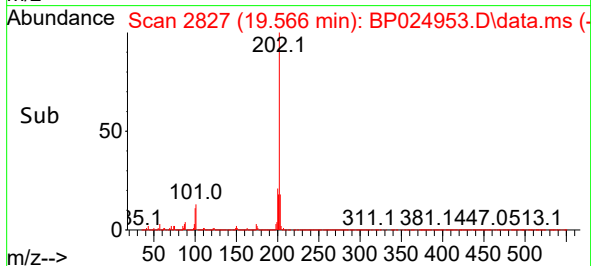
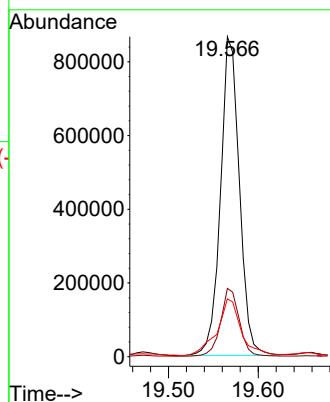
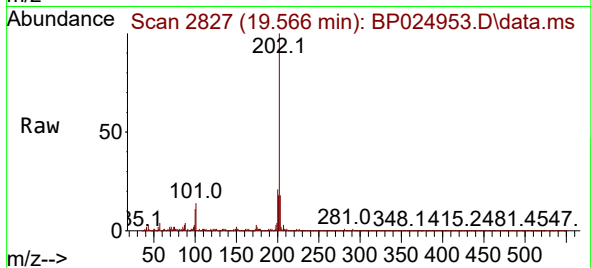
Tgt Ion:202 Resp: 1266195

Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 18.0 14.0 21.0



#79

Terphenyl-d14

Concen: 11.975 ng

RT: 19.777 min Scan# 2863

Delta R.T. -0.018 min

Lab File: BP024953.D

Acq: 13 Jun 2025 20:58

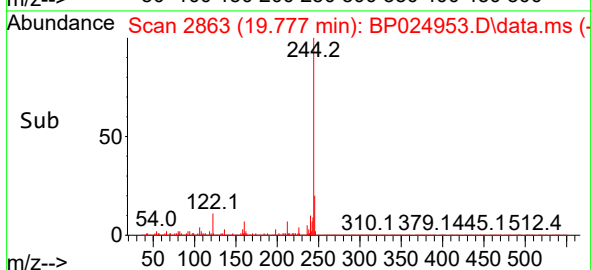
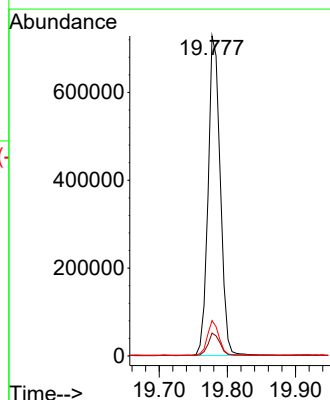
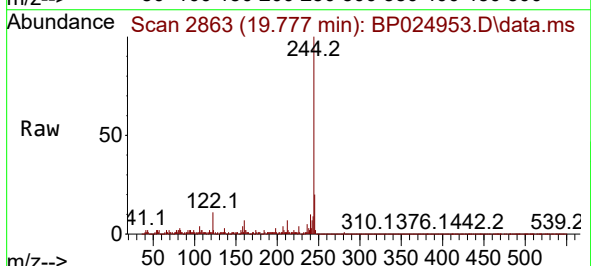
Tgt Ion:244 Resp: 904559

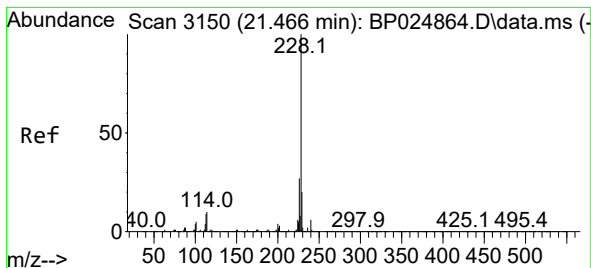
Ion Ratio Lower Upper

244 100

212 7.1 5.6 8.4

122 11.0 7.7 11.5





#81

Benzo(a)anthracene

Concen: 6.534 ng

RT: 21.471 min Scan# 3151

Delta R.T. 0.006 min

Lab File: BP024953.D

Acq: 13 Jun 2025 20:58

Instrument :

BNA_P

ClientSampleId :

EO-02-06122025

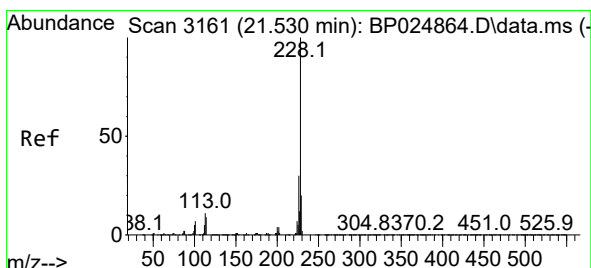
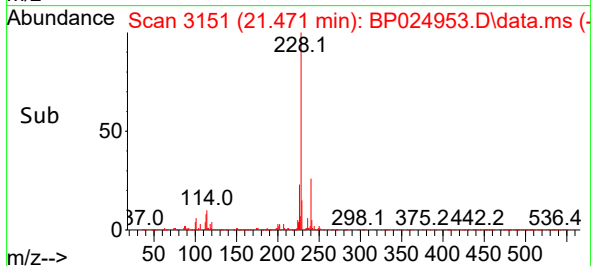
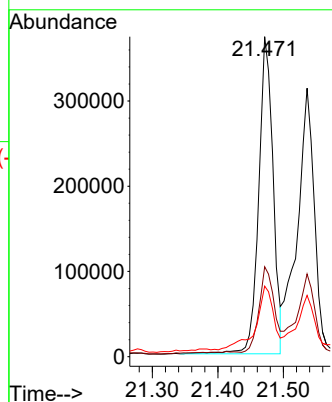
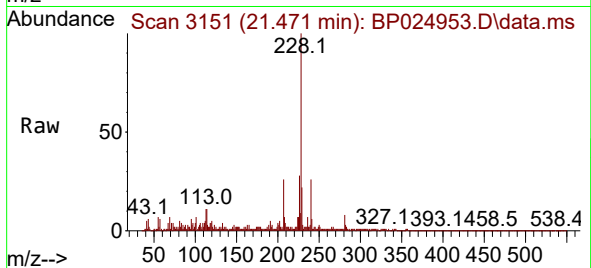
Tgt Ion:228 Resp: 565763

Ion Ratio Lower Upper

228 100

226 28.1 22.1 33.1

229 22.1 15.9 23.9



#83

Chrysene

Concen: 6.624 ng

RT: 21.536 min Scan# 3162

Delta R.T. 0.006 min

Lab File: BP024953.D

Acq: 13 Jun 2025 20:58

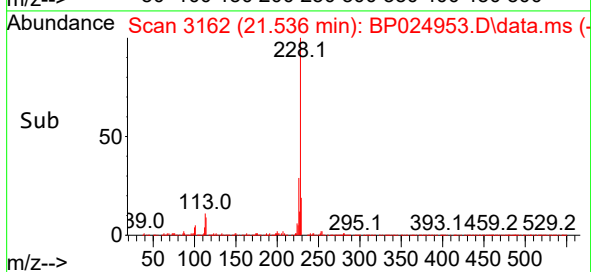
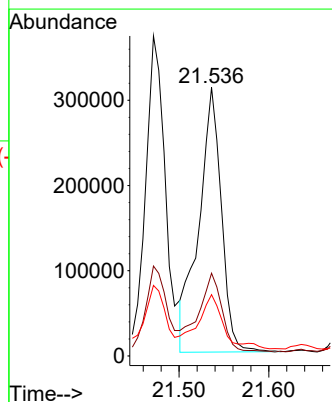
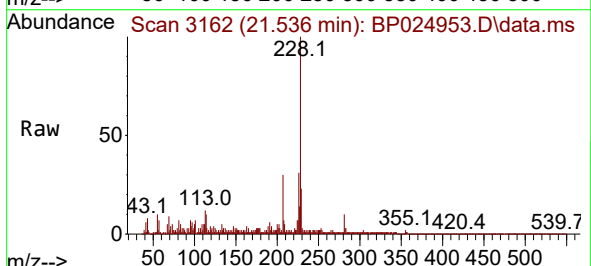
Tgt Ion:228 Resp: 543457

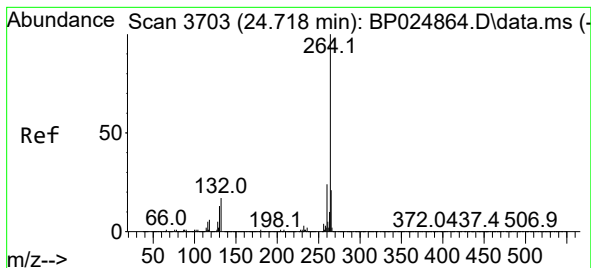
Ion Ratio Lower Upper

228 100

226 30.8 23.8 35.6

229 22.8 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.759 min Scan# 31

Delta R.T. 0.041 min

Lab File: BP024953.D

Acq: 13 Jun 2025 20:58

Instrument :

BNA_P

ClientSampleId :

EO-02-06122025

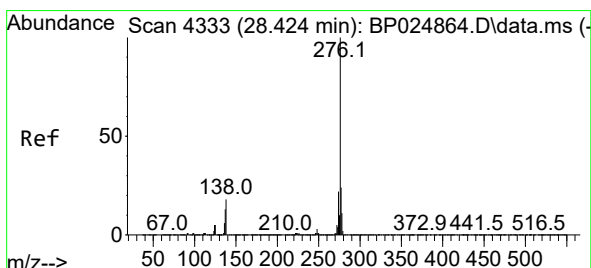
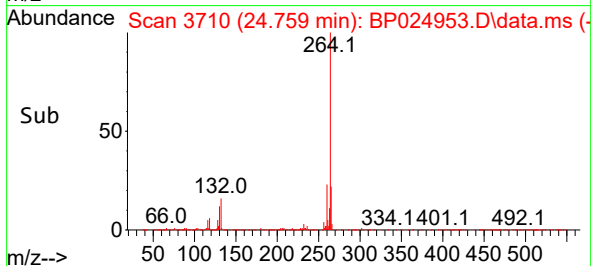
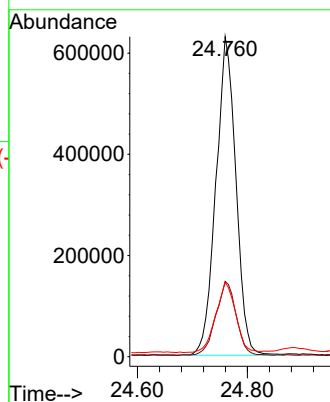
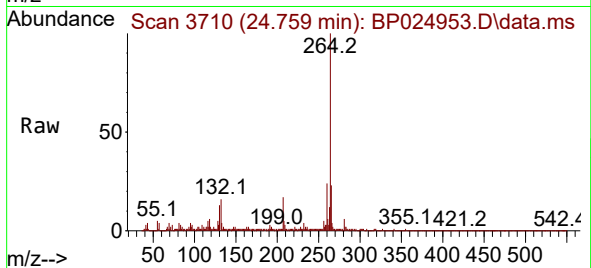
Tgt Ion:264 Resp: 1588223

Ion Ratio Lower Upper

264 100

260 23.6 19.0 28.4

265 23.2 17.4 26.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.251 ng

RT: 28.465 min Scan# 4340

Delta R.T. 0.041 min

Lab File: BP024953.D

Acq: 13 Jun 2025 20:58

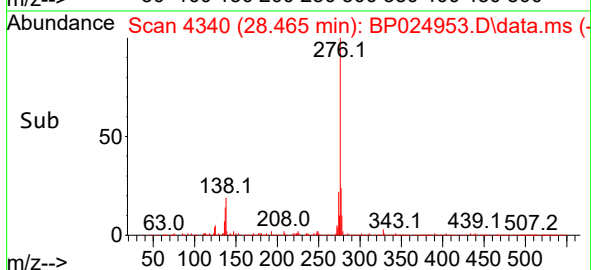
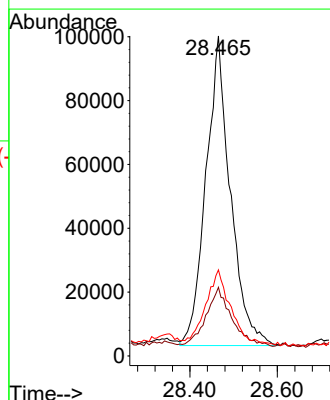
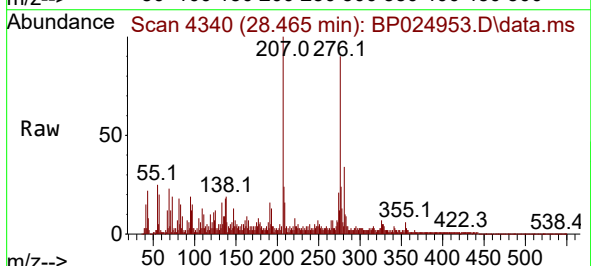
Tgt Ion:276 Resp: 376711

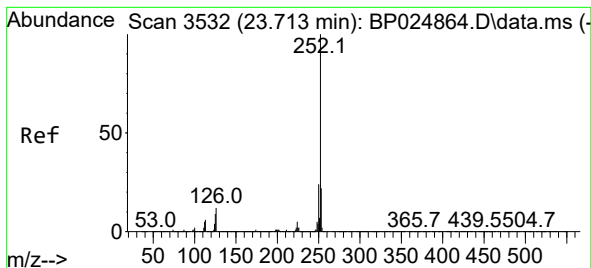
Ion Ratio Lower Upper

276 100

138 20.1 18.6 27.8

277 24.9 20.2 30.4





#88

Benzo(b)fluoranthene

Concen: 7.100 ng

RT: 23.730 min Scan# 3535

Delta R.T. 0.018 min

Lab File: BP024953.D

Acq: 13 Jun 2025 20:58

Instrument :

BNA_P

ClientSampleId :

EO-02-06122025

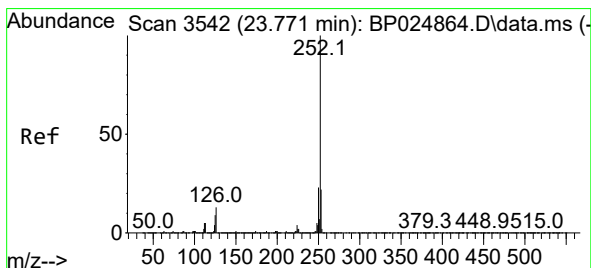
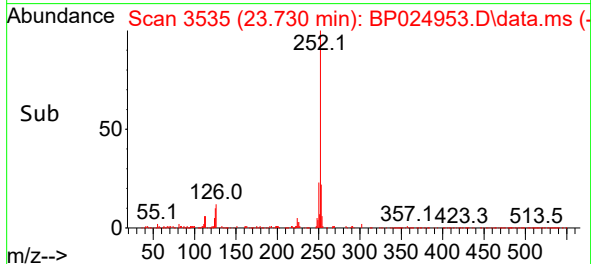
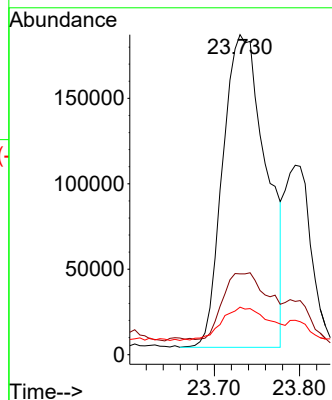
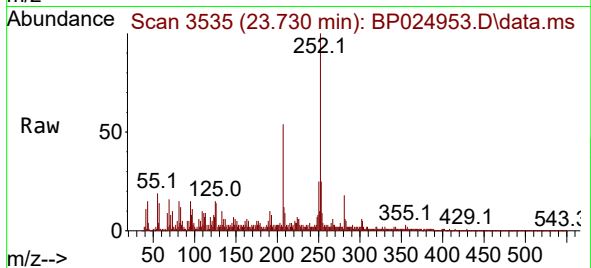
Tgt Ion:252 Resp: 645368

Ion Ratio Lower Upper

252 100

253 25.3 17.6 26.4

125 14.9 7.1 10.7#



#89

Benzo(k)fluoranthene

Concen: 6.975 ng

RT: 23.730 min Scan# 3535

Delta R.T. -0.041 min

Lab File: BP024953.D

Acq: 13 Jun 2025 20:58

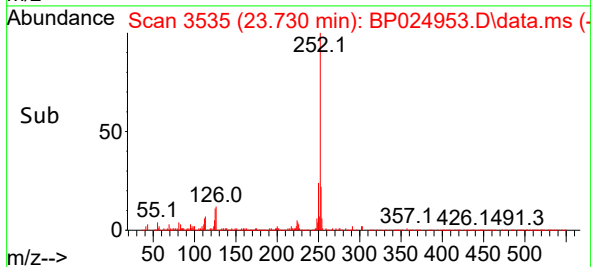
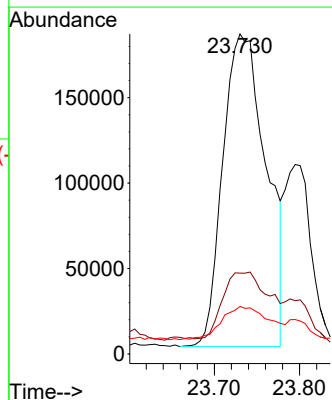
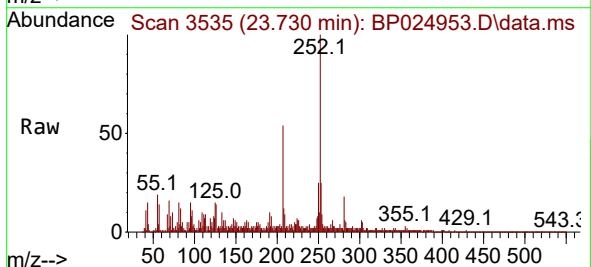
Tgt Ion:252 Resp: 645368

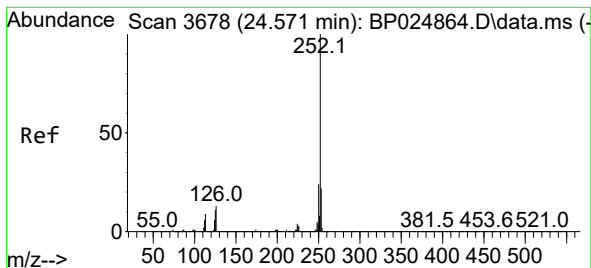
Ion Ratio Lower Upper

252 100

253 25.3 17.7 26.5

125 14.9 7.4 11.0#





#90

Benzo(a)pyrene

Concen: 7.057 ng

RT: 24.607 min Scan# 3

Delta R.T. 0.035 min

Lab File: BP024953.D

Acq: 13 Jun 2025 20:58

Instrument :

BNA_P

ClientSampleId :

EO-02-06122025

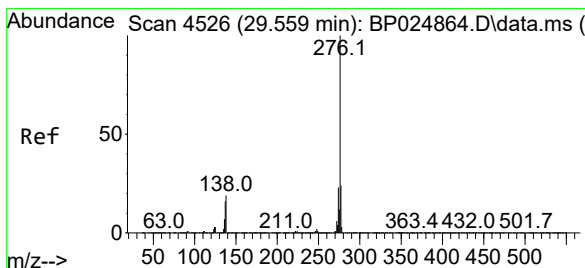
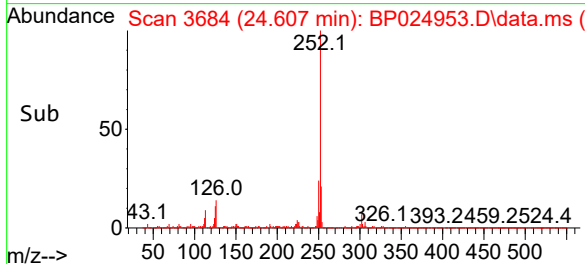
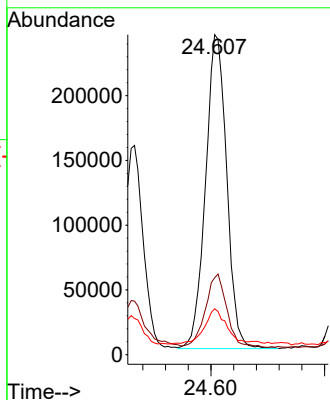
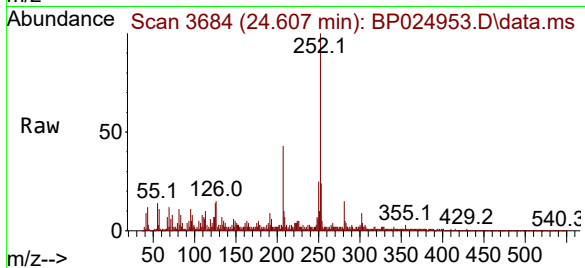
Tgt Ion:252 Resp: 626443

Ion Ratio Lower Upper

252 100

253 24.1 17.5 26.3

125 14.4 8.8 13.2#



#92

Benzo(g,h,i)perylene

Concen: 4.742 ng

RT: 29.630 min Scan# 4538

Delta R.T. 0.070 min

Lab File: BP024953.D

Acq: 13 Jun 2025 20:58

Tgt Ion:276 Resp: 443803

Ion Ratio Lower Upper

276 100

277 26.2 19.1 28.7

138 20.6 15.4 23.2

