

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021324\
 Data File : BP019688.D
 Acq On : 13 Feb 2024 21:06
 Operator : MA/JU
 Sample : P1451-01 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 OK-01-02092024

Quant Time: Feb 13 23:27:49 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 01 00:51:48 2024
 Response via : Initial Calibration

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

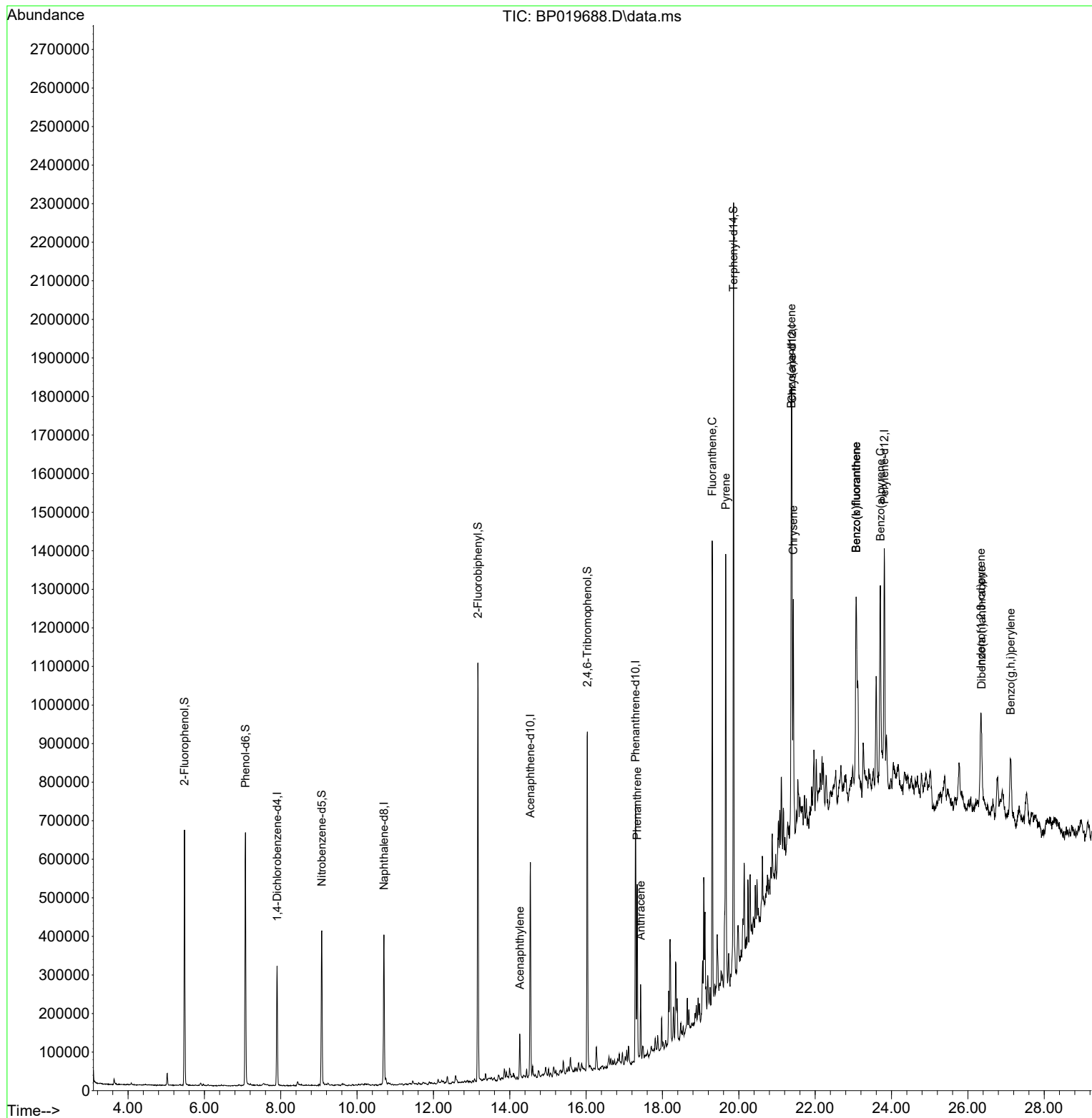
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.905	152	82667	20.000	ng	-0.01
21) Naphthalene-d8	10.705	136	306591	20.000	ng	-0.01
39) Acenaphthene-d10	14.540	164	197562	20.000	ng	-0.01
64) Phenanthrene-d10	17.292	188	435837	20.000	ng	-0.01
76) Chrysene-d12	21.392	240	417465	20.000	ng	# 0.00
86) Perylene-d12	23.810	264	477420	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	275711	53.761	ng	0.00
7) Phenol-d6	7.075	99	360198	52.089	ng	-0.01
23) Nitrobenzene-d5	9.075	82	247630	34.998	ng	-0.01
42) 2,4,6-Tribromophenol	16.034	330	186844	64.774	ng	0.00
45) 2-Fluorobiphenyl	13.163	172	584611	36.582	ng	-0.02
79) Terphenyl-d14	19.863	244	957781	37.730	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	14.263	152	88458	4.871	ng	98
71) Phenanthrene	17.340	178	285738	12.458	ng	99
72) Anthracene	17.428	178	121236	5.299	ng	97
75) Fluoranthene	19.304	202	700838	25.013	ng	99
78) Pyrene	19.657	202	704441	23.909	ng	99
81) Benzo(a)anthracene	21.375	228	457866	15.581	ng	94
83) Chrysene	21.428	228	368505	13.208	ng	96
87) Indeno(1,2,3-cd)pyrene	26.339	276	269968	7.387	ng	# 96
88) Benzo(b)fluoranthene	23.075	252	547920	18.210	ng	95
89) Benzo(k)fluoranthene	23.075	252	547920	19.063	ng	94
90) Benzo(a)pyrene	23.710	252	420408	15.703	ng	96
91) Dibenzo(a,h)anthracene	26.363	278	77780	2.588	ng	# 75
92) Benzo(g,h,i)perylene	27.121	276	265366	8.703	ng	97

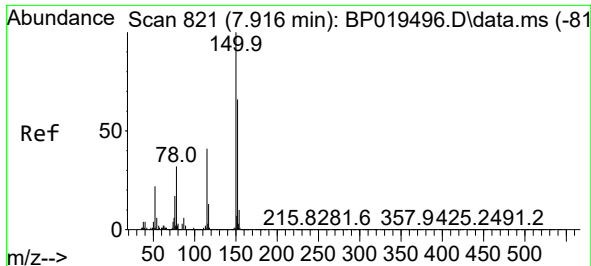
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021324\
Data File : BP019688.D
Acq On : 13 Feb 2024 21:06
Operator : MA/JU
Sample : P1451-01 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OK-01-02092024

Quant Time: Feb 13 23:27:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 01 00:51:48 2024
Response via : Initial Calibration

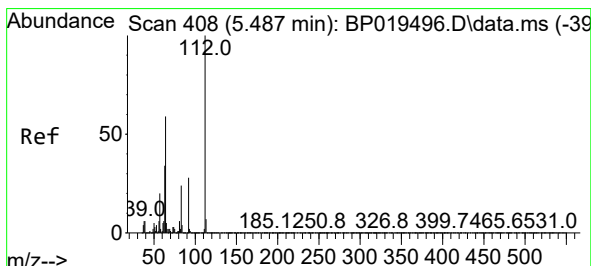
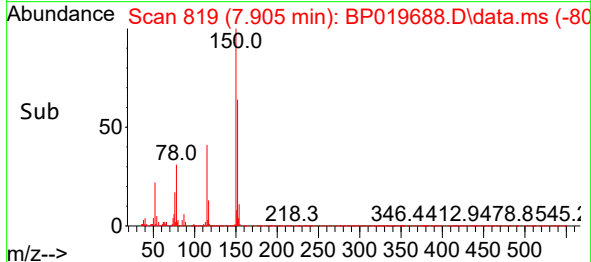
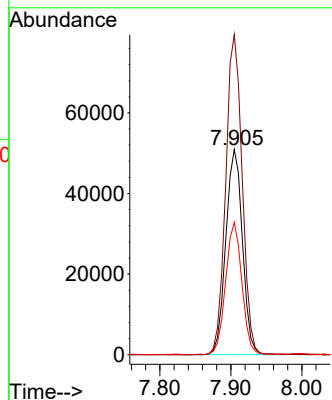
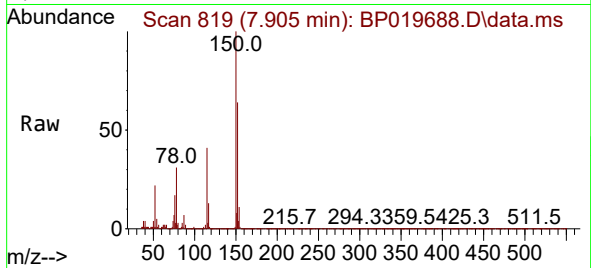




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.905 min Scan# 81
Delta R.T. -0.011 min
Lab File: BP019688.D
Acq: 13 Feb 2024 21:06

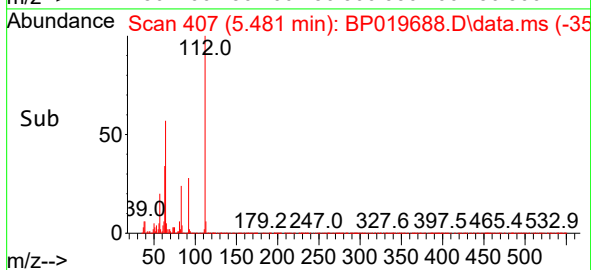
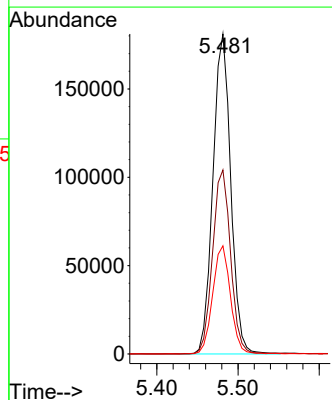
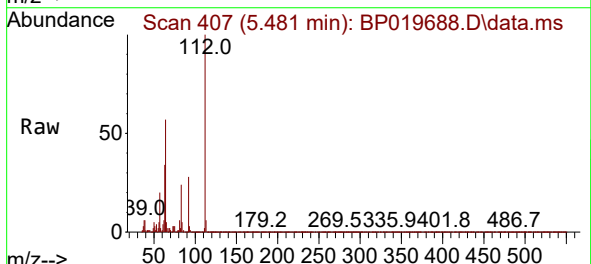
Instrument :
BNA_P
ClientSampleId :
OK-01-02092024

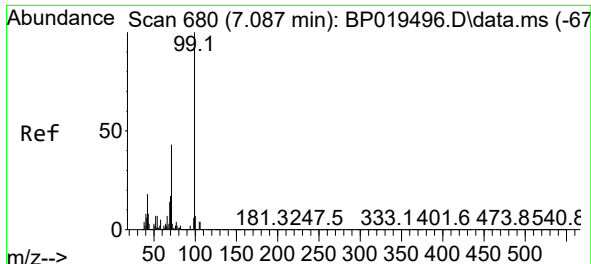
Tgt Ion:152 Resp: 82667
Ion Ratio Lower Upper
152 100
150 155.9 121.8 182.8
115 64.5 49.9 74.9



#5
2-Fluorophenol
Concen: 53.761 ng
RT: 5.481 min Scan# 407
Delta R.T. -0.005 min
Lab File: BP019688.D
Acq: 13 Feb 2024 21:06

Tgt Ion:112 Resp: 275711
Ion Ratio Lower Upper
112 100
64 57.5 47.4 71.0
63 33.8 27.0 40.6

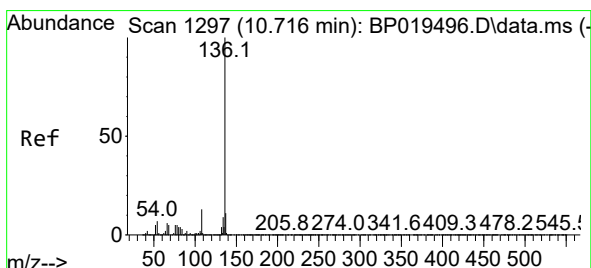
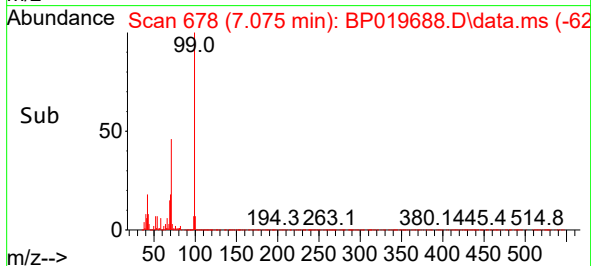
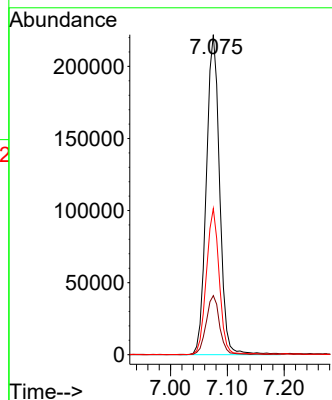
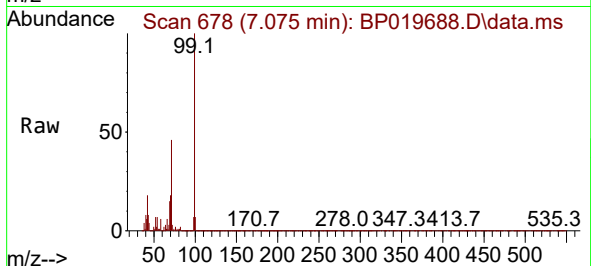




#7
Phenol-d6
Concen: 52.089 ng
RT: 7.075 min Scan# 61
Delta R.T. -0.011 min
Lab File: BP019688.D
Acq: 13 Feb 2024 21:06

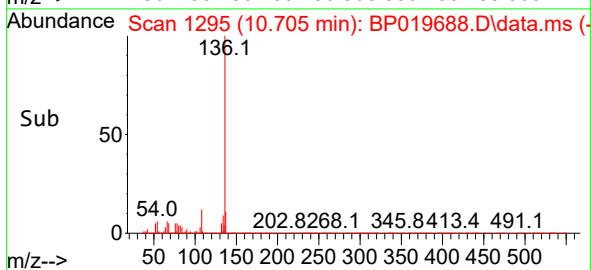
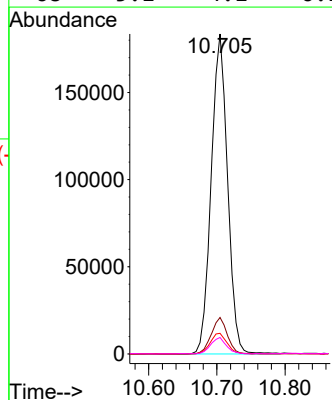
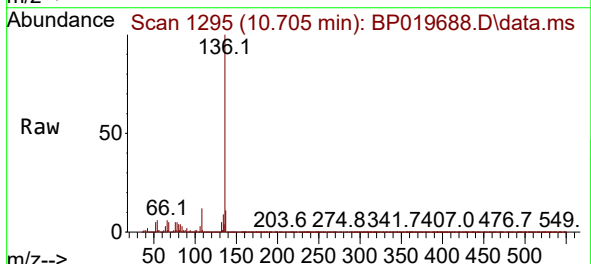
Instrument :
BNA_P
ClientSampleId :
OK-01-02092024

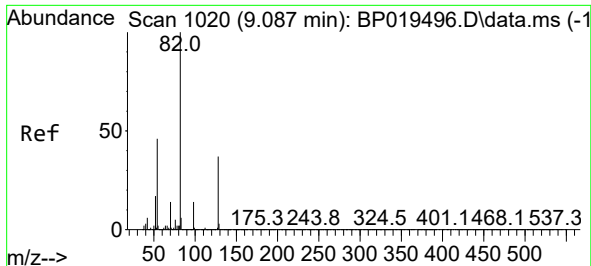
Tgt Ion: 99 Resp: 360198
Ion Ratio Lower Upper
99 100
42 18.4 14.7 22.1
71 45.7 34.8 52.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.705 min Scan# 1295
Delta R.T. -0.011 min
Lab File: BP019688.D
Acq: 13 Feb 2024 21:06

Tgt Ion: 136 Resp: 306591
Ion Ratio Lower Upper
136 100
137 11.4 8.8 13.2
54 6.5 5.3 7.9
68 5.1 4.1 6.1





#23

Nitrobenzene-d5

Concen: 34.998 ng

RT: 9.075 min Scan# 1018

Delta R.T. -0.011 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

Instrument :

BNA_P

ClientSampleId :

OK-01-02092024

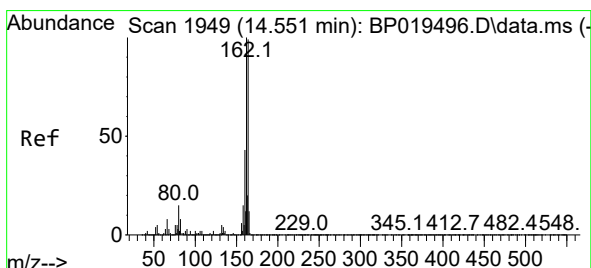
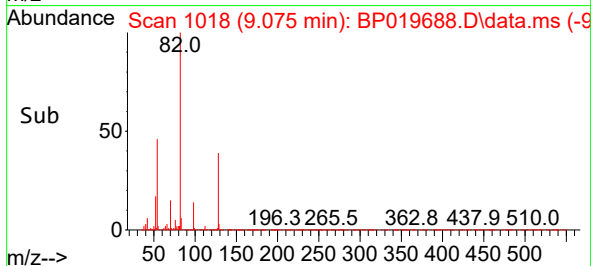
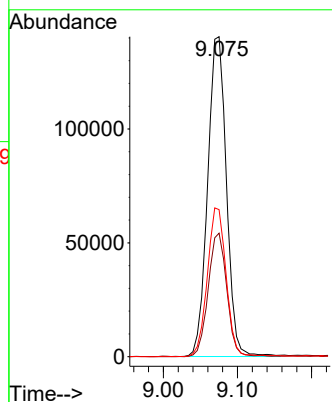
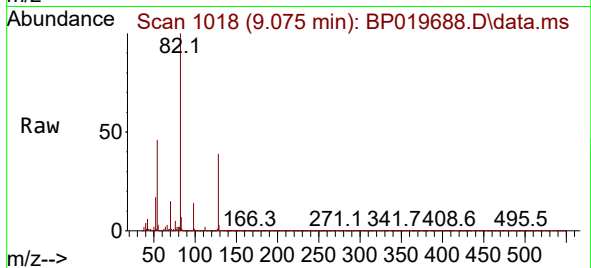
Tgt Ion: 82 Resp: 247630

Ion Ratio Lower Upper

82 100

128 38.6 29.7 44.5

54 46.0 36.8 55.2



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.540 min Scan# 1947

Delta R.T. -0.011 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

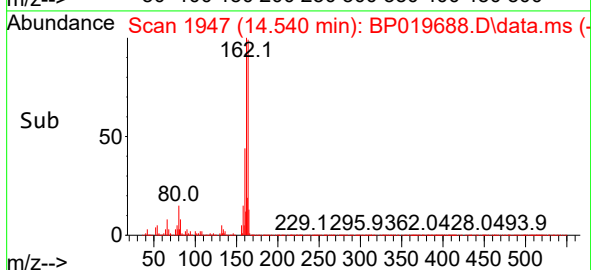
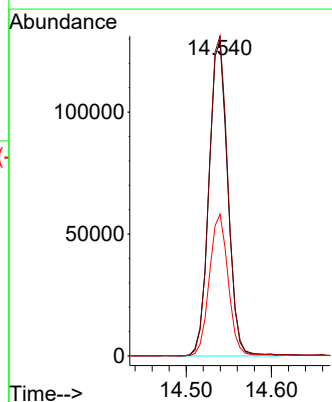
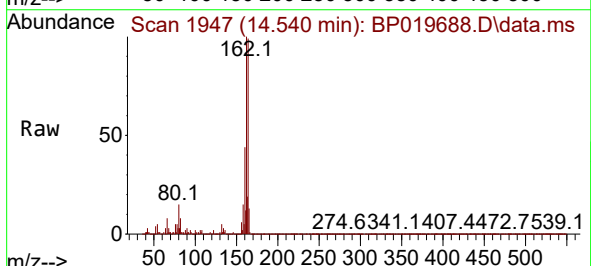
Tgt Ion:164 Resp: 197562

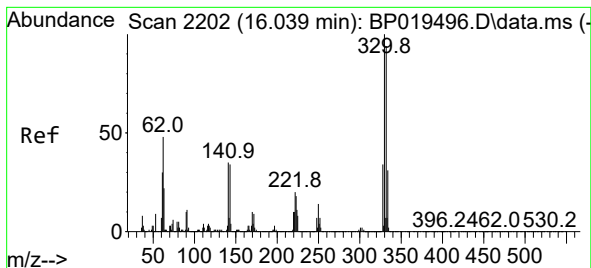
Ion Ratio Lower Upper

164 100

162 101.5 81.2 121.8

160 45.0 35.1 52.7





#42

2,4,6-Tribromophenol

Concen: 64.774 ng

RT: 16.034 min Scan# 21

Delta R.T. -0.005 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

Instrument :

BNA_P

ClientSampleId :

OK-01-02092024

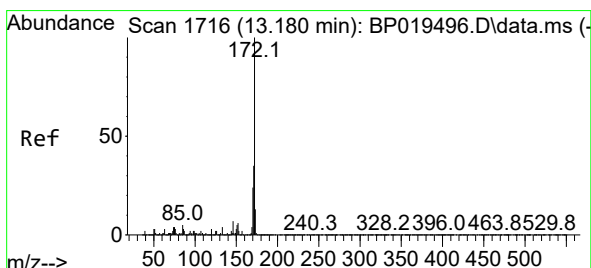
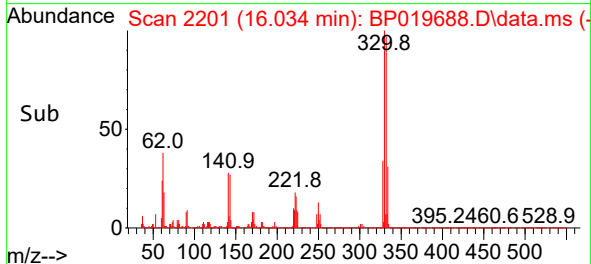
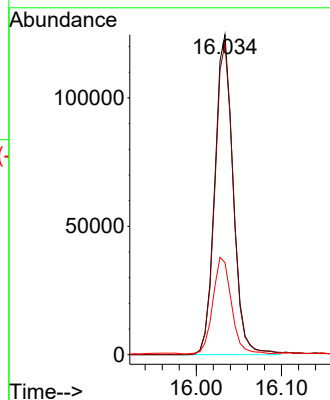
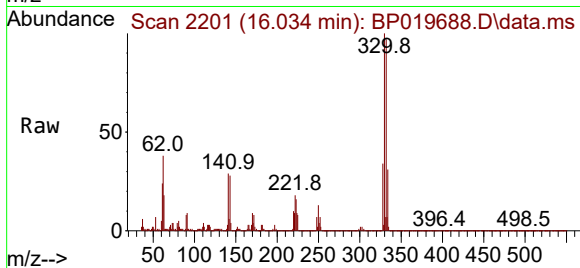
Tgt Ion:330 Resp: 186844

Ion Ratio Lower Upper

330 100

332 98.4 77.2 115.8

141 30.5 27.0 40.4



#45

2-Fluorobiphenyl

Concen: 36.582 ng

RT: 13.163 min Scan# 1713

Delta R.T. -0.017 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

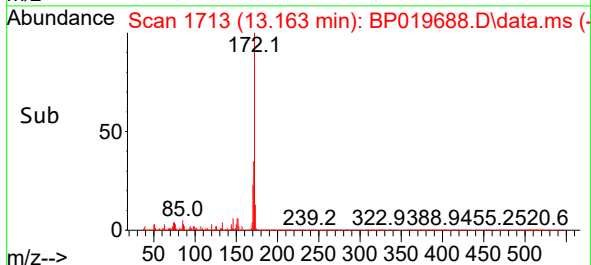
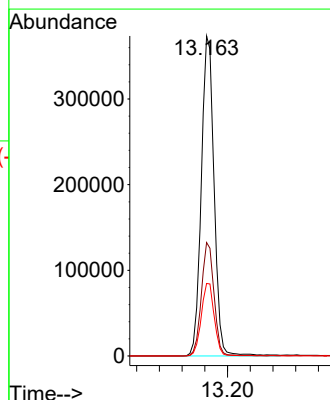
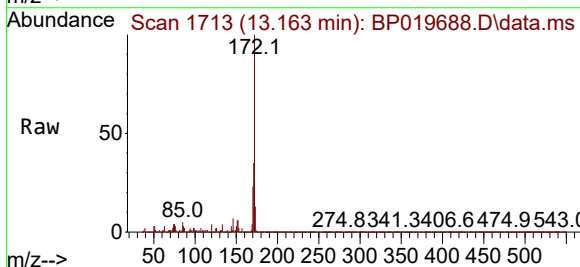
Tgt Ion:172 Resp: 584611

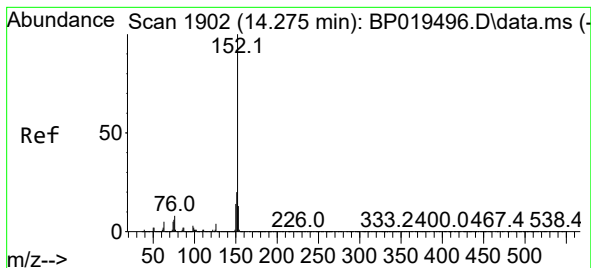
Ion Ratio Lower Upper

172 100

171 35.4 28.2 42.4

170 22.6 18.9 28.3





#49

Acenaphthylene

Concen: 4.871 ng

RT: 14.263 min Scan# 1900

Delta R.T. -0.011 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

Instrument :

BNA_P

ClientSampleId :

OK-01-02092024

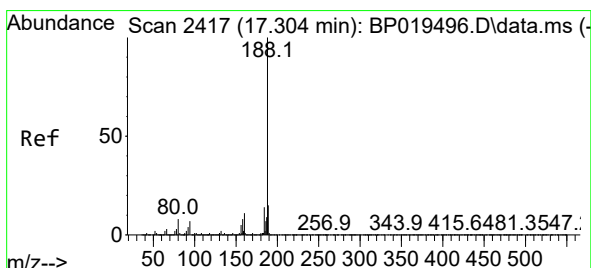
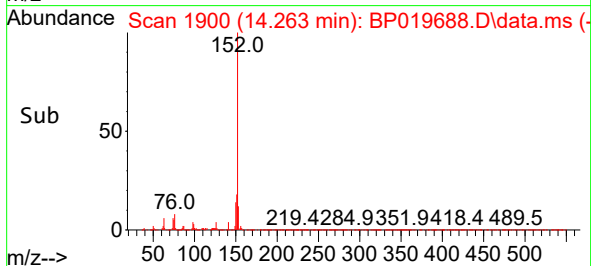
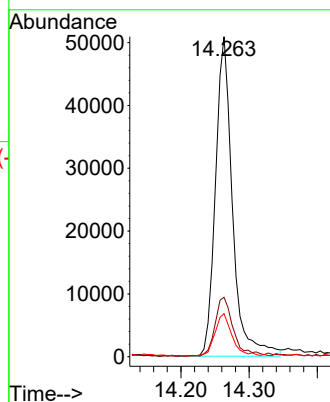
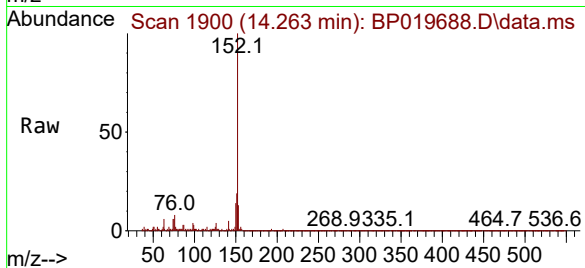
Tgt Ion:152 Resp: 88458

Ion Ratio Lower Upper

152 100

151 18.5 15.8 23.6

153 13.4 10.6 15.8



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.292 min Scan# 2415

Delta R.T. -0.012 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

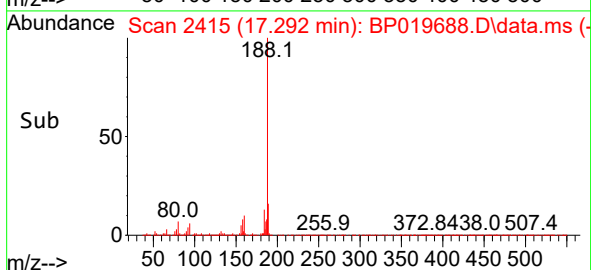
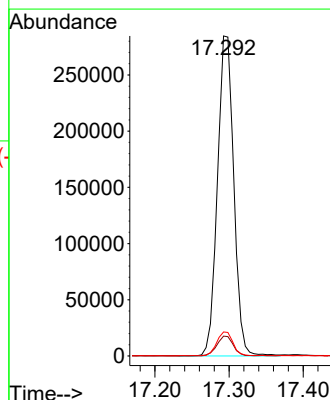
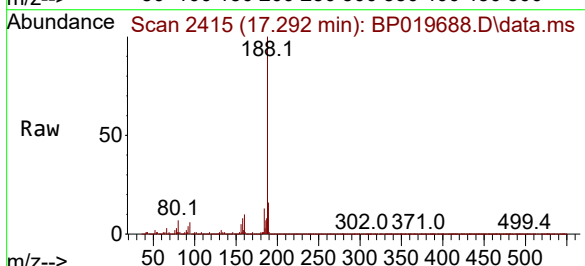
Tgt Ion:188 Resp: 435837

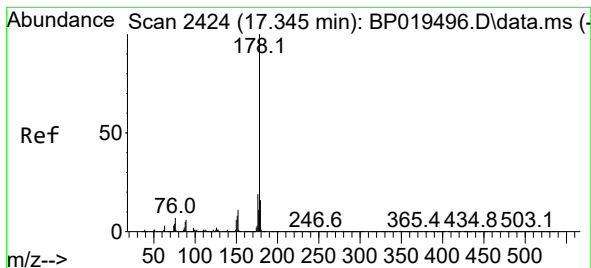
Ion Ratio Lower Upper

188 100

94 6.2 5.4 8.2

80 7.5 6.3 9.5





#71

Phenanthrene

Concen: 12.458 ng

RT: 17.340 min Scan# 2424

Delta R.T. -0.005 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

Instrument :

BNA_P

ClientSampleId :

OK-01-02092024

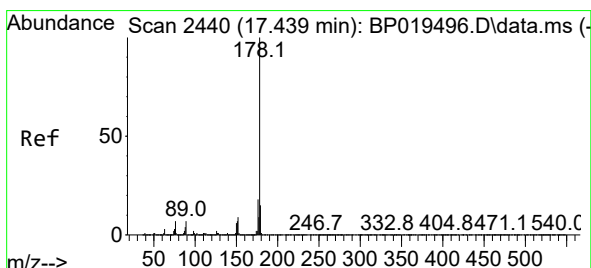
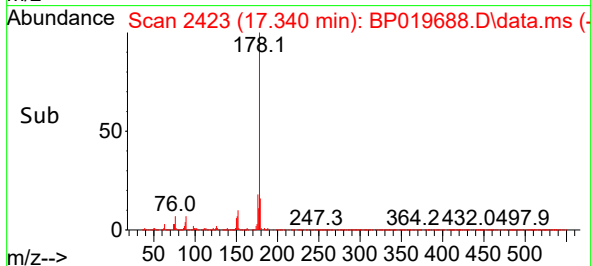
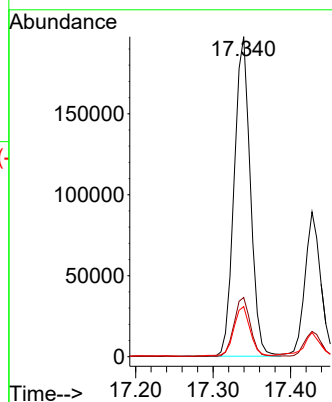
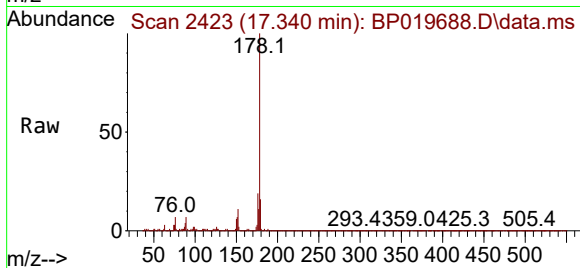
Tgt Ion:178 Resp: 285738

Ion Ratio Lower Upper

178 100

176 18.5 15.5 23.3

179 15.7 12.6 19.0



#72

Anthracene

Concen: 5.299 ng

RT: 17.428 min Scan# 2438

Delta R.T. -0.011 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

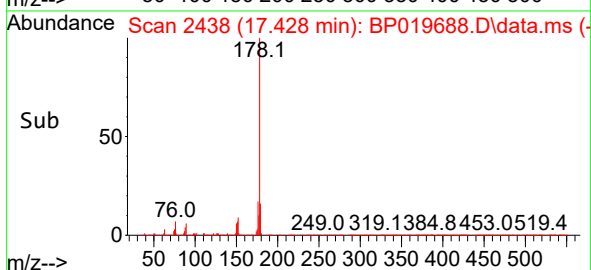
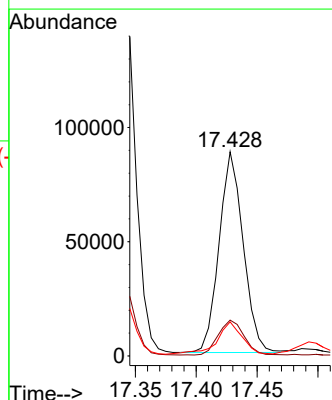
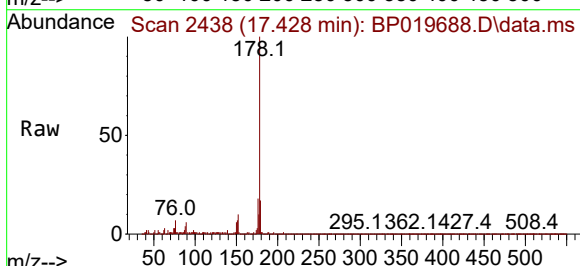
Tgt Ion:178 Resp: 121236

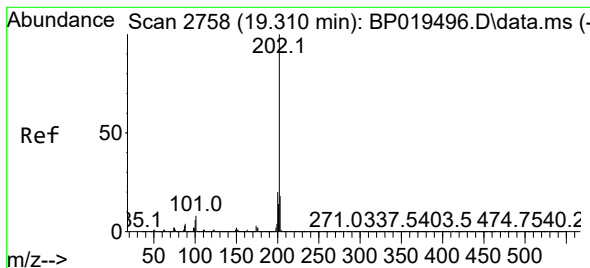
Ion Ratio Lower Upper

178 100

176 17.5 14.7 22.1

179 16.7 12.2 18.2





#75

Fluoranthene

Concen: 25.013 ng

RT: 19.304 min Scan# 21

Delta R.T. -0.005 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

Instrument :

BNA_P

ClientSampleId :

OK-01-02092024

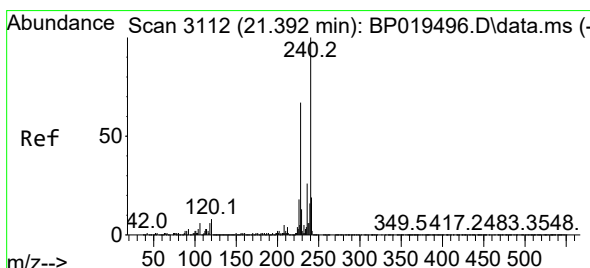
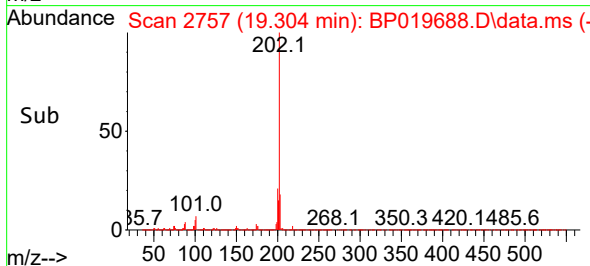
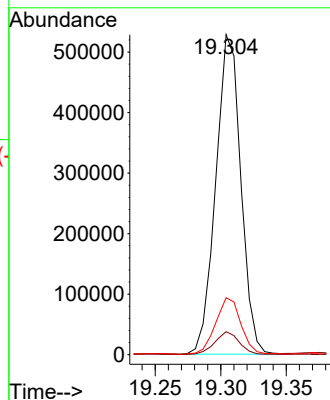
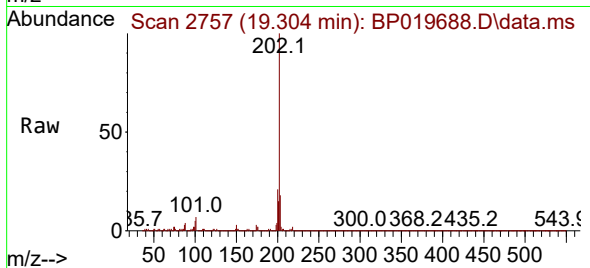
Tgt Ion:202 Resp: 700838

Ion Ratio Lower Upper

202 100

101 7.2 0.0 27.7

203 17.8 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.392 min Scan# 3112

Delta R.T. 0.000 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

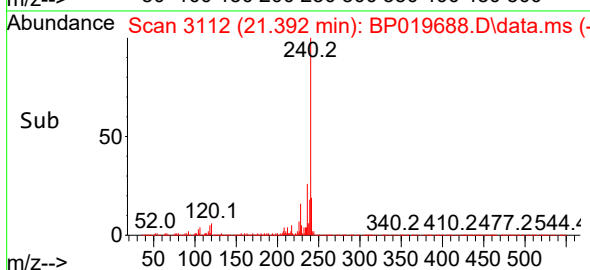
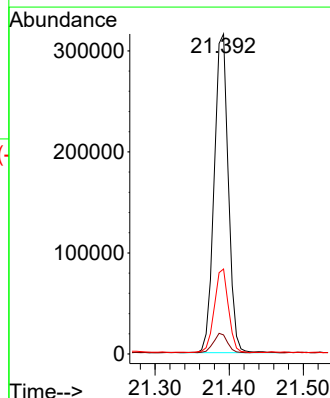
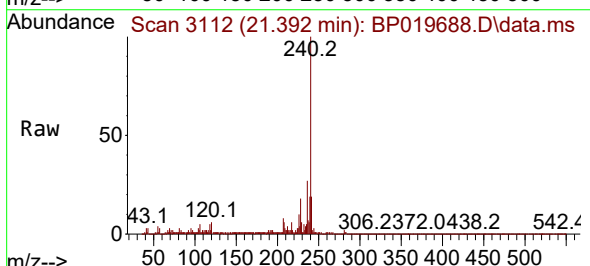
Tgt Ion:240 Resp: 417465

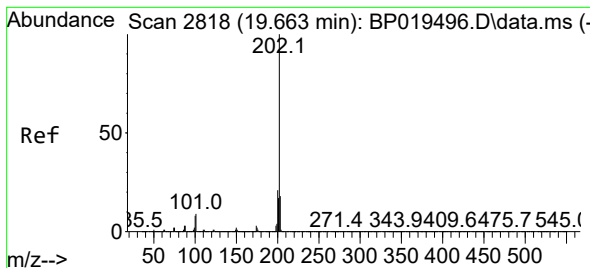
Ion Ratio Lower Upper

240 100

120 6.0 6.1 9.1#

236 26.6 20.7 31.1





#78

Pyrene

Concen: 23.909 ng

RT: 19.657 min Scan# 2817

Delta R.T. -0.005 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

Instrument :

BNA_P

ClientSampleId :

OK-01-02092024

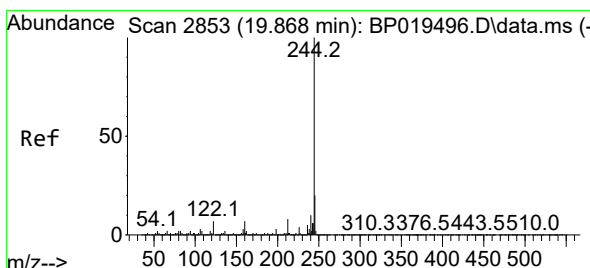
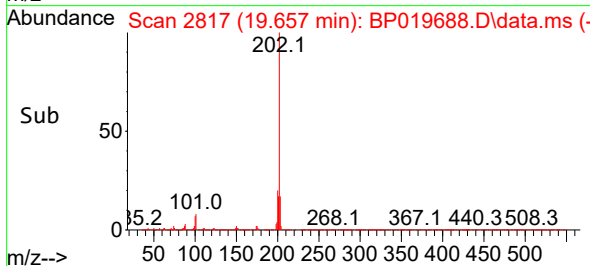
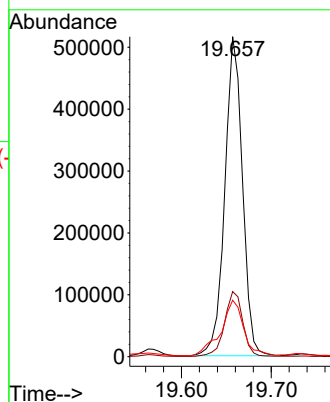
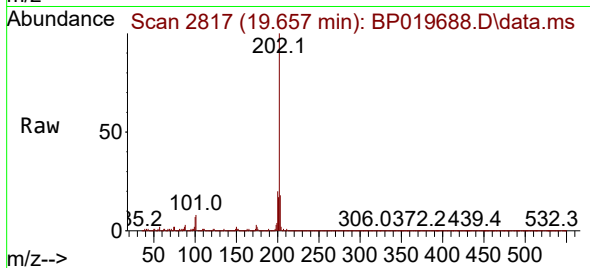
Tgt Ion:202 Resp: 704441

Ion Ratio Lower Upper

202 100

200 20.4 16.9 25.3

203 17.6 14.2 21.2



#79

Terphenyl-d14

Concen: 37.730 ng

RT: 19.863 min Scan# 2852

Delta R.T. -0.005 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

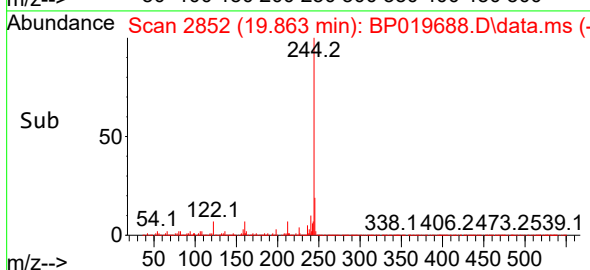
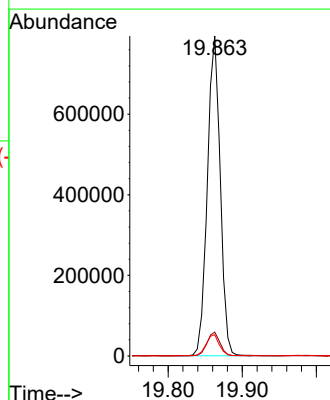
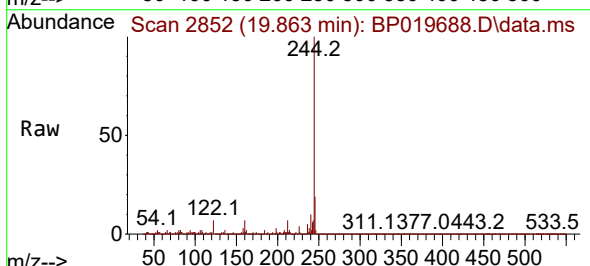
Tgt Ion:244 Resp: 957781

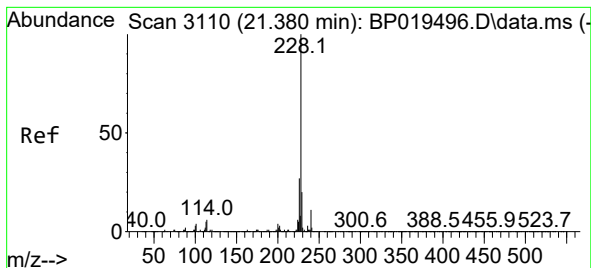
Ion Ratio Lower Upper

244 100

212 7.5 6.1 9.1

122 6.6 5.9 8.9





#81

Benzo(a)anthracene

Concen: 15.581 ng

RT: 21.375 min Scan# 3110

Delta R.T. -0.005 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

Instrument :

BNA_P

ClientSampleId :

OK-01-02092024

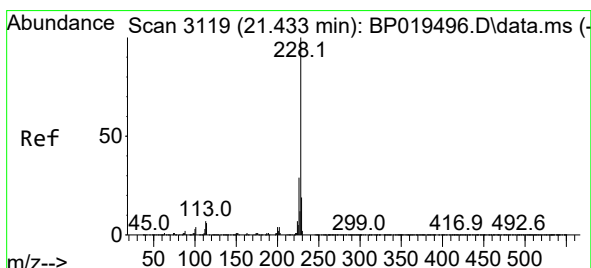
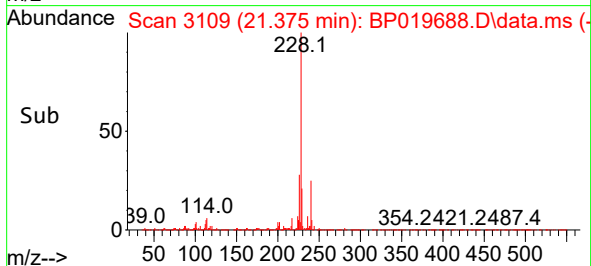
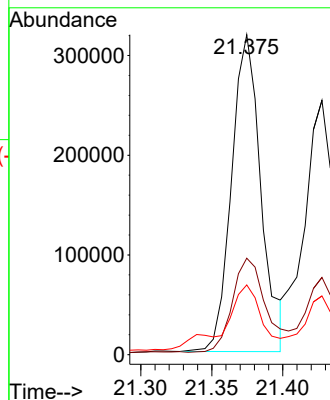
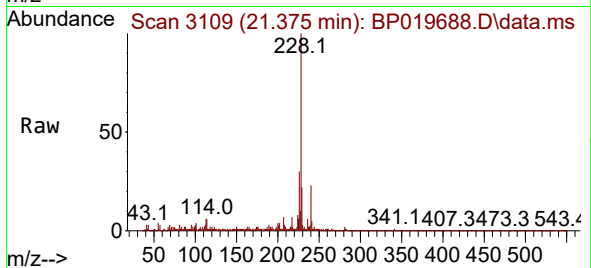
Tgt Ion:228 Resp: 457866

Ion Ratio Lower Upper

228 100

226 30.2 21.7 32.5

229 21.8 15.6 23.4



#83

Chrysene

Concen: 13.208 ng

RT: 21.428 min Scan# 3118

Delta R.T. -0.005 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

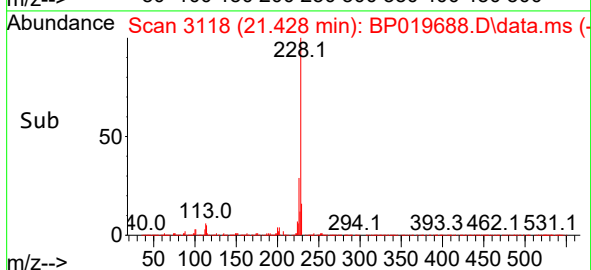
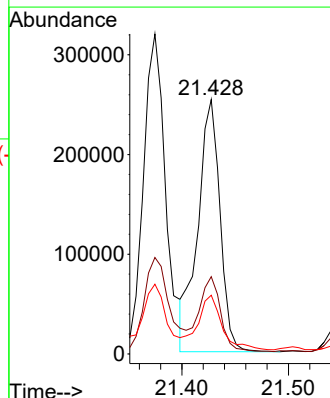
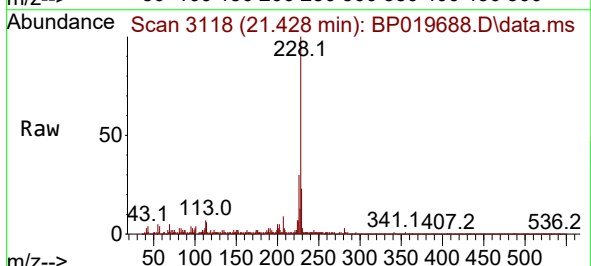
Tgt Ion:228 Resp: 368505

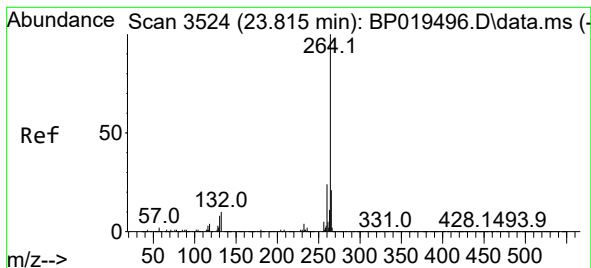
Ion Ratio Lower Upper

228 100

226 30.4 23.4 35.2

229 23.1 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.810 min Scan# 3

Delta R.T. -0.005 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

Instrument :

BNA_P

ClientSampleId :

OK-01-02092024

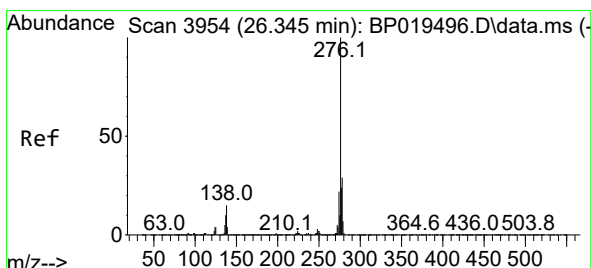
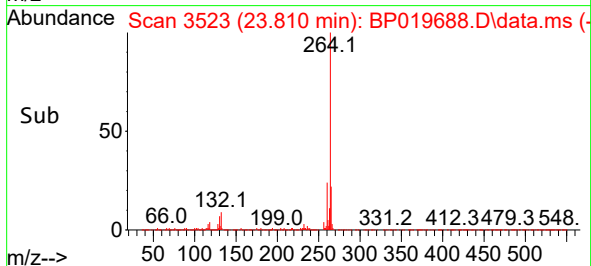
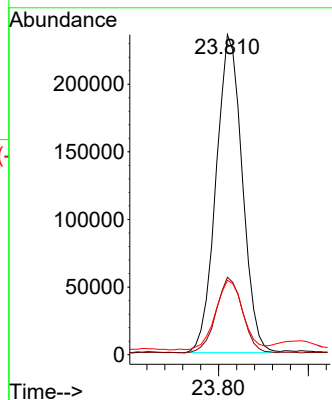
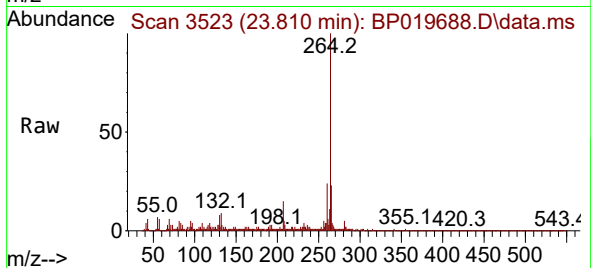
Tgt Ion:264 Resp: 477420

Ion Ratio Lower Upper

264 100

260 24.2 19.2 28.8

265 23.2 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.387 ng

RT: 26.339 min Scan# 3953

Delta R.T. -0.005 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

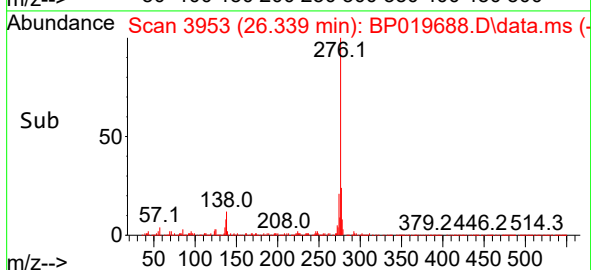
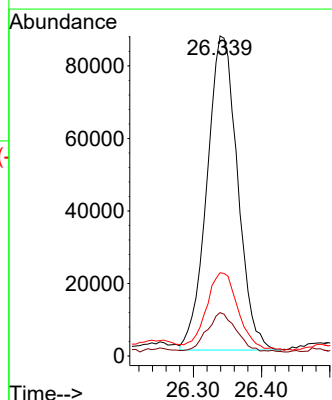
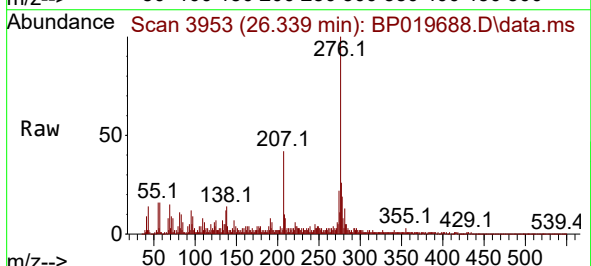
Tgt Ion:276 Resp: 269968

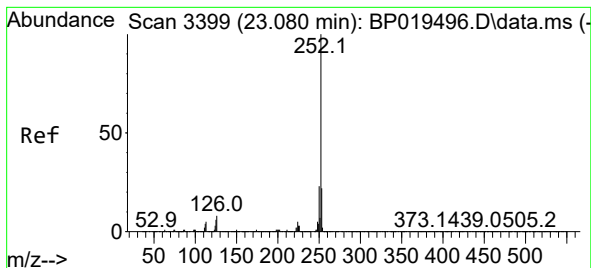
Ion Ratio Lower Upper

276 100

138 12.3 13.1 19.7#

277 26.0 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 18.210 ng

RT: 23.075 min Scan# 3398

Delta R.T. -0.005 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

Instrument :

BNA_P

ClientSampleId :

OK-01-02092024

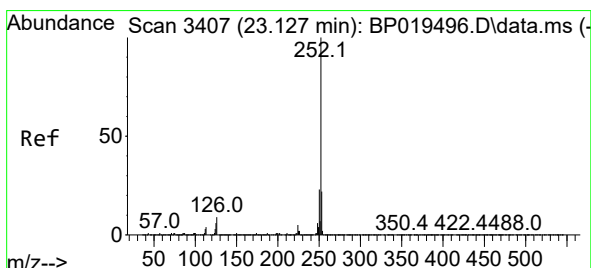
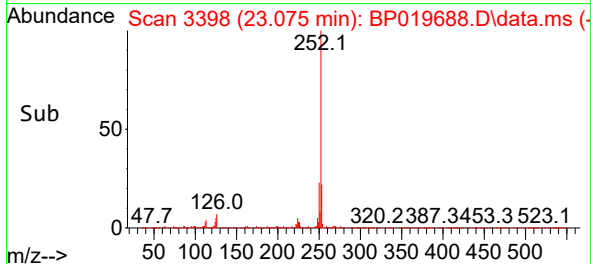
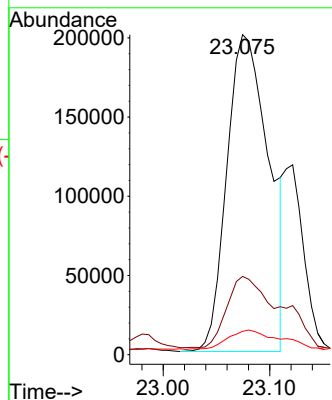
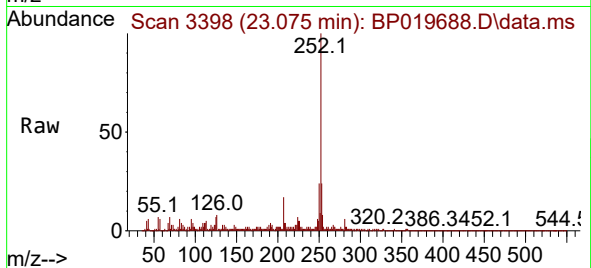
Tgt Ion:252 Resp: 547920

Ion Ratio Lower Upper

252 100

253 24.4 17.3 25.9

125 7.3 4.9 7.3



#89

Benzo(k)fluoranthene

Concen: 19.063 ng

RT: 23.075 min Scan# 3398

Delta R.T. -0.053 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

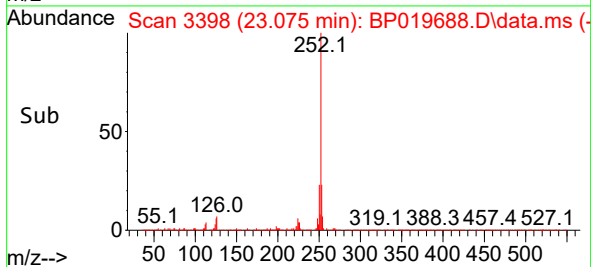
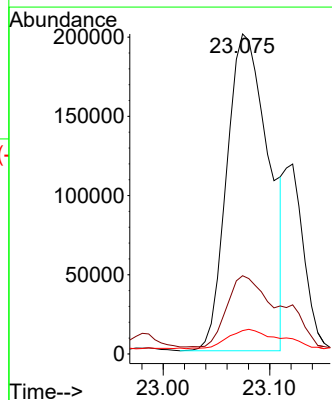
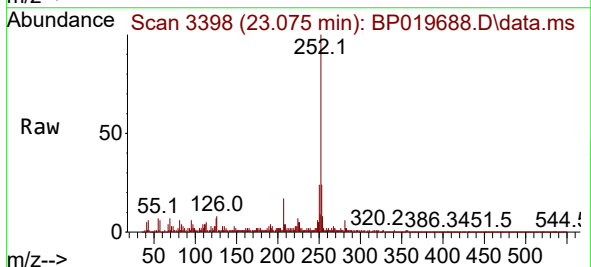
Tgt Ion:252 Resp: 547920

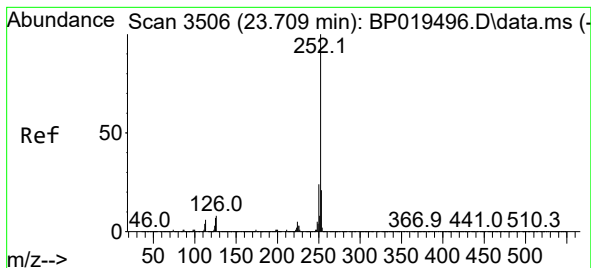
Ion Ratio Lower Upper

252 100

253 24.4 17.1 25.7

125 7.3 5.0 7.6





#90

Benzo(a)pyrene

Concen: 15.703 ng

RT: 23.710 min Scan# 3

Delta R.T. 0.000 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

Instrument :

BNA_P

ClientSampleId :

OK-01-02092024

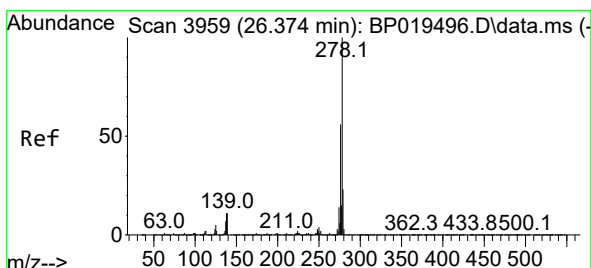
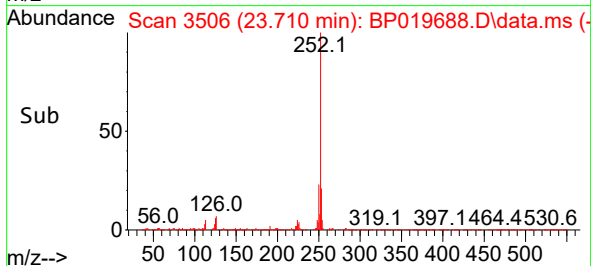
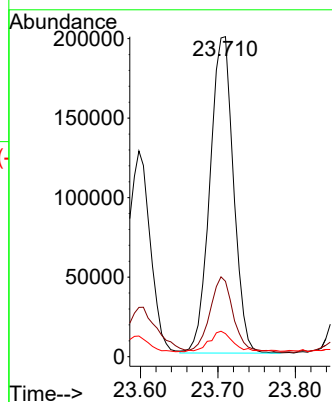
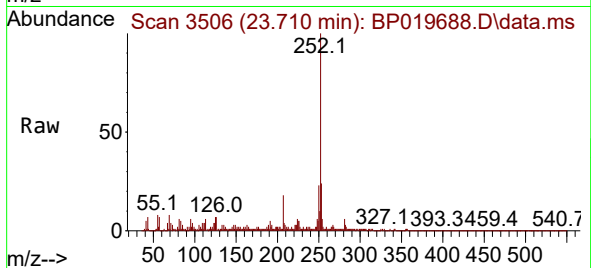
Tgt Ion:252 Resp: 420408

Ion Ratio Lower Upper

252 100

253 23.6 17.1 25.7

125 7.2 5.6 8.4



#91

Dibenzo(a,h)anthracene

Concen: 2.588 ng

RT: 26.363 min Scan# 3957

Delta R.T. -0.011 min

Lab File: BP019688.D

Acq: 13 Feb 2024 21:06

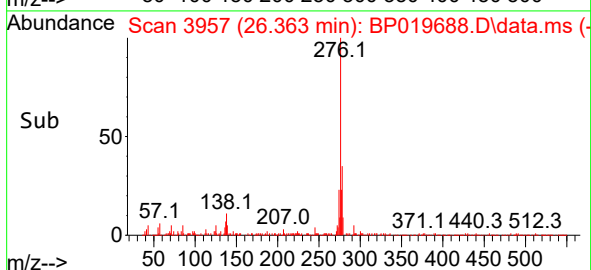
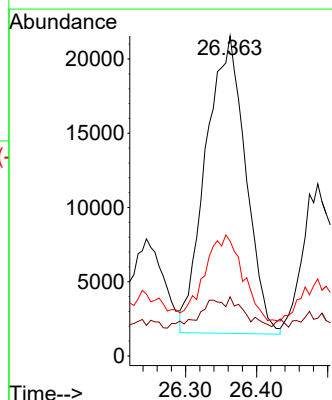
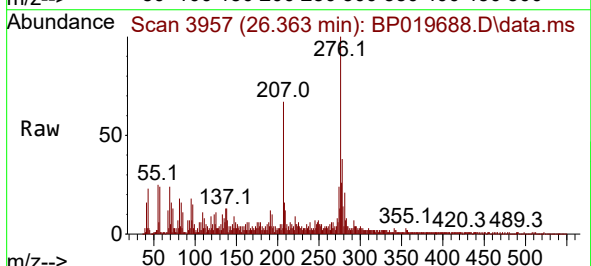
Tgt Ion:278 Resp: 77780

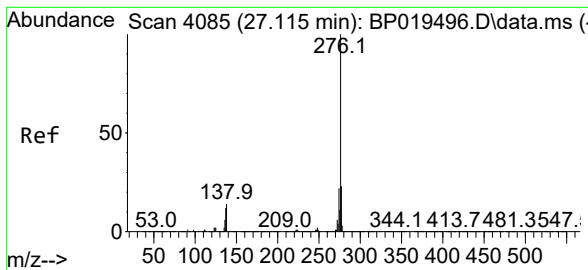
Ion Ratio Lower Upper

278 100

139 18.5 8.6 12.8#

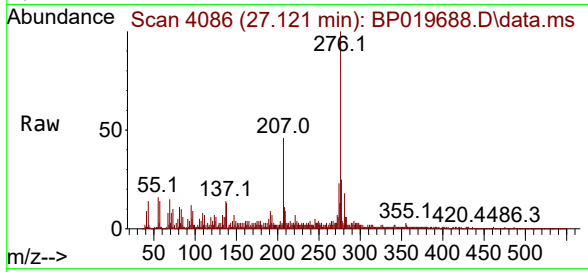
279 35.9 18.5 27.7#





#92
 Benzo(g,h,i)perylene
 Concen: 8.703 ng
 RT: 27.121 min Scan# 4086
 Delta R.T. 0.006 min
 Lab File: BP019688.D
 Acq: 13 Feb 2024 21:06

Instrument :
 BNA_P
 ClientSampleId :
 OK-01-02092024



Tgt Ion: 276 Resp: 265366

Ion	Ratio	Lower	Upper
276	100		
277	25.0	18.6	28.0
138	12.5	10.9	16.3

