

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP020824\
 Data File : BP019622.D
 Acq On : 08 Feb 2024 22:50
 Operator : MA/JU
 Sample : P1387-01 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 HD-01-020724

Quant Time: Feb 09 00:44:38 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)

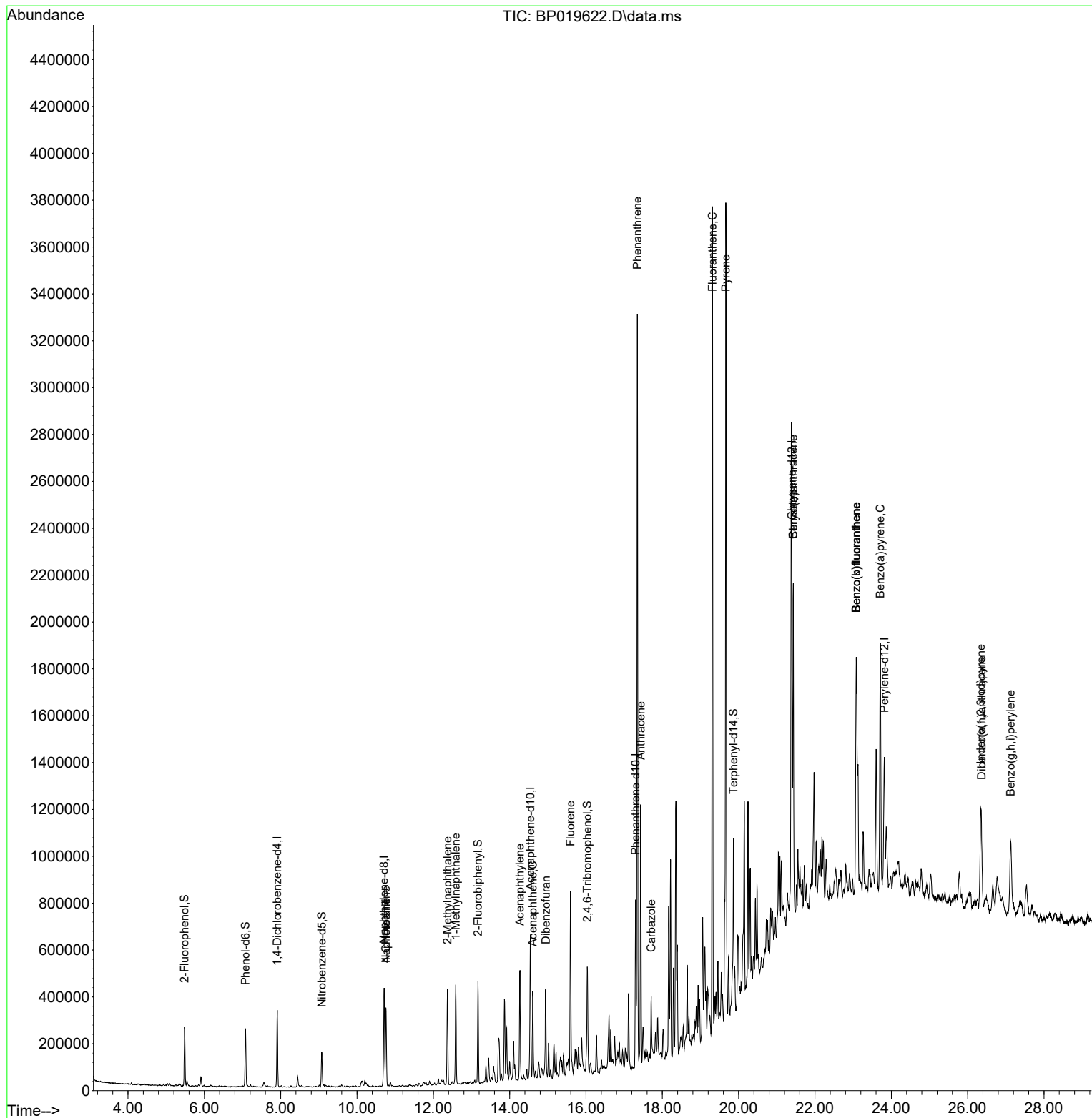
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.910	152	87654	20.000	ng	0.00
21) Naphthalene-d8	10.710	136	336241	20.000	ng	0.00
39) Acenaphthene-d10	14.545	164	212578	20.000	ng	0.00
64) Phenanthrene-d10	17.298	188	448669	20.000	ng	0.00
76) Chrysene-d12	21.392	240	403976	20.000	ng	0.00
86) Perylene-d12	23.815	264	469948	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	106841	19.648	ng	0.00
7) Phenol-d6	7.075	99	141274	19.268	ng	-0.01
23) Nitrobenzene-d5	9.075	82	92373	11.904	ng	-0.01
42) 2,4,6-Tribromophenol	16.033	330	65204	21.008	ng	0.00
45) 2-Fluorobiphenyl	13.169	172	220078	12.798	ng	-0.01
79) Terphenyl-d14	19.863	244	332981	13.555	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.757	128	267497	14.505	ng	99
33) 4-Chloroaniline	10.757	127	35444	5.197	ng	# 35
37) 2-Methylnaphthalene	12.369	142	186212	14.591	ng	99
38) 1-Methylnaphthalene	12.586	142	192340	15.336	ng	99
49) Acenaphthylene	14.269	152	304955	15.607	ng	99
52) Acenaphthene	14.604	154	135662	11.186	ng	98
55) Dibenzofuran	14.945	168	165816	8.395	ng	# 95
58) Fluorene	15.592	166	355265	22.582	ng	100
71) Phenanthrene	17.345	178	1980483	83.876	ng	99
72) Anthracene	17.433	178	676483	28.720	ng	99
73) Carbazole	17.710	167	157501	7.361	ng	99
75) Fluoranthene	19.316	202	2184520	75.734	ng	99
78) Pyrene	19.663	202	2198067	77.096	ng	99
81) Benzo(a)anthracene	21.433	228	836648	29.421	ng	94
83) Chrysene	21.433	228	836648	30.989	ng	97
87) Indeno(1,2,3-cd)pyrene	26.345	276	507201	14.100	ng	97
88) Benzo(b)fluoranthene	23.080	252	1105105	37.311	ng	96
89) Benzo(k)fluoranthene	23.080	252	1105105	39.060	ng	96
90) Benzo(a)pyrene	23.709	252	879325	33.366	ng	96
91) Dibenzo(a,h)anthracene	26.362	278	143884	4.863	ng	# 82
92) Benzo(g,h,i)perylene	27.127	276	489050	16.293	ng	97

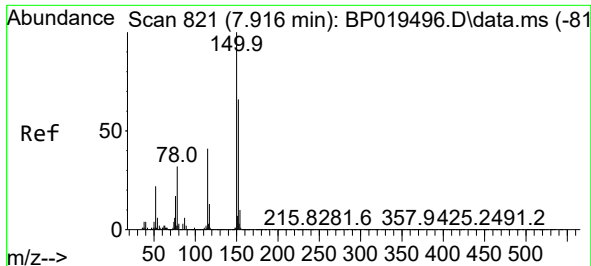
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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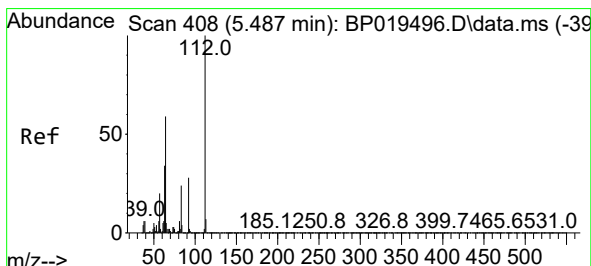
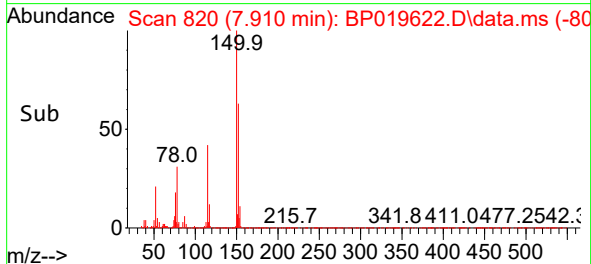
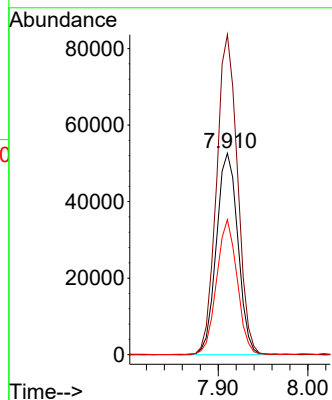
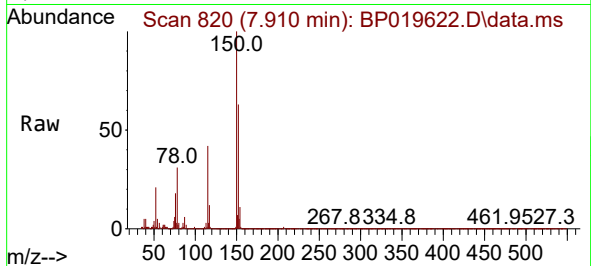




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.910 min Scan# 81
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

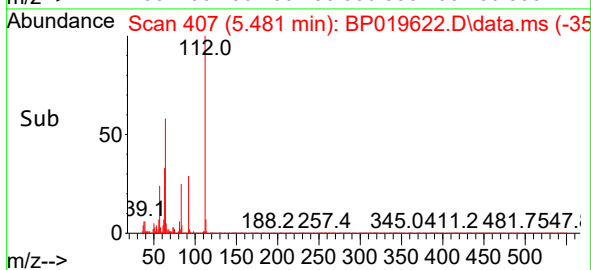
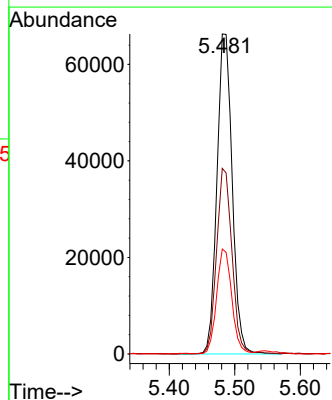
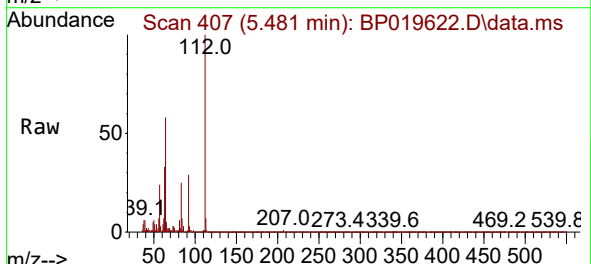
Instrument :
BNA_P
ClientSampleId :
HD-01-020724

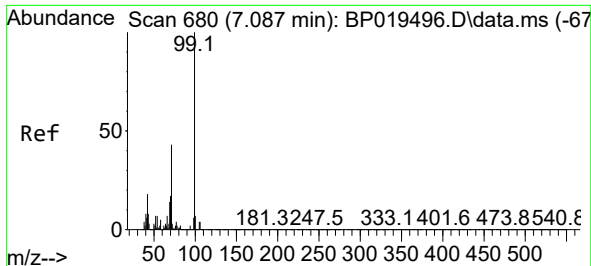
Tgt Ion:152 Resp: 87654
Ion Ratio Lower Upper
152 100
150 158.8 121.8 182.8
115 67.0 49.9 74.9



#5
2-Fluorophenol
Concen: 19.648 ng
RT: 5.481 min Scan# 407
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Tgt Ion:112 Resp: 106841
Ion Ratio Lower Upper
112 100
64 58.0 47.4 71.0
63 32.8 27.0 40.6





#7

Phenol-d6

Concen: 19.268 ng

RT: 7.075 min Scan# 61

Delta R.T. -0.012 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

ClientSampleId :

HD-01-020724

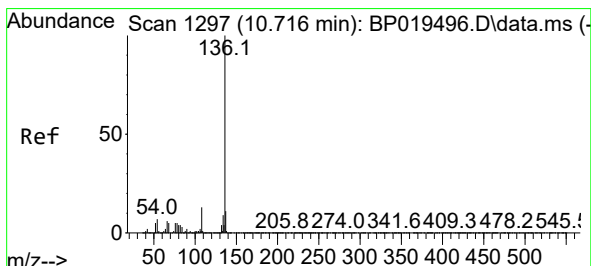
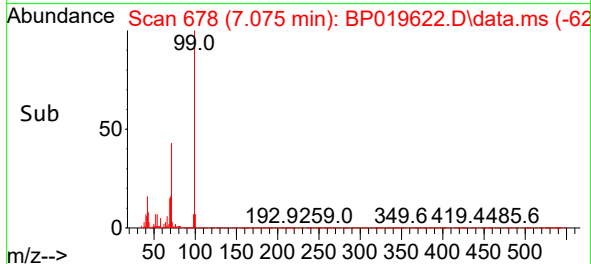
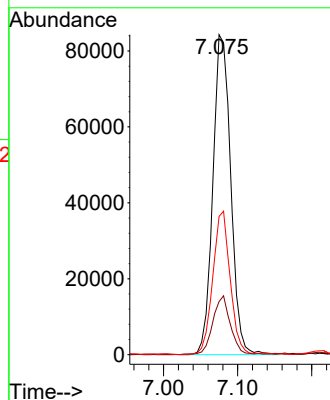
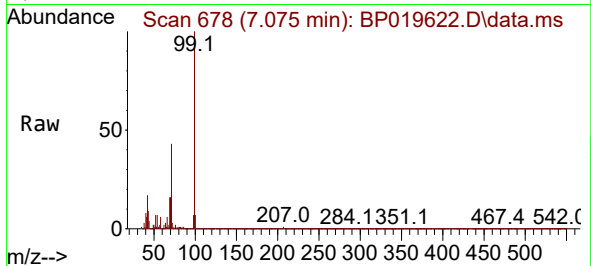
Tgt Ion: 99 Resp: 141274

Ion Ratio Lower Upper

99 100

42 16.6 14.7 22.1

71 43.2 34.8 52.2



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.710 min Scan# 1296

Delta R.T. -0.006 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Tgt Ion: 136 Resp: 336241

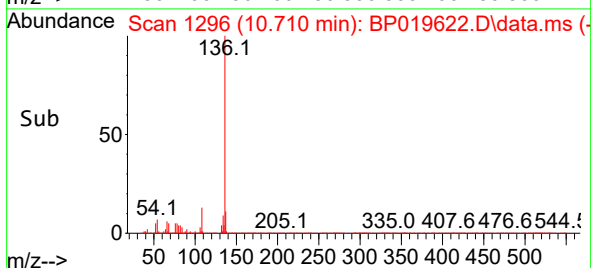
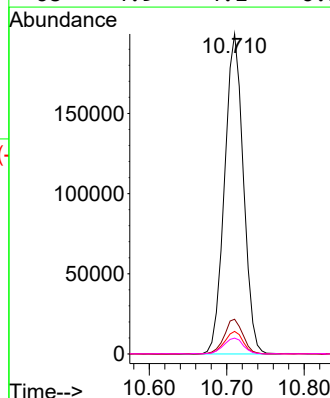
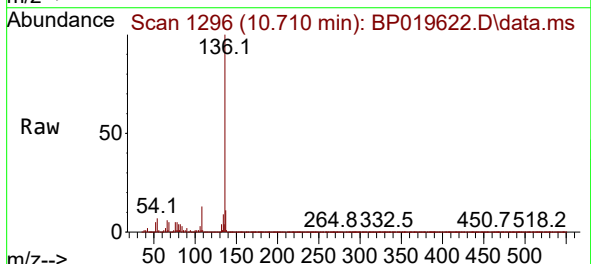
Ion Ratio Lower Upper

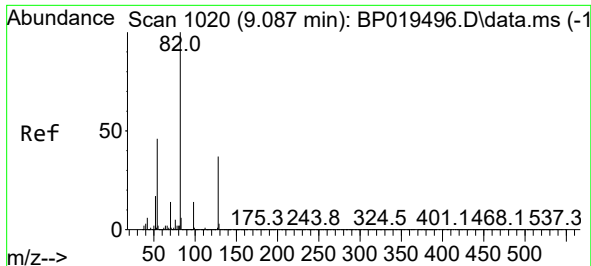
136 100

137 10.8 8.8 13.2

54 7.1 5.3 7.9

68 4.9 4.1 6.1

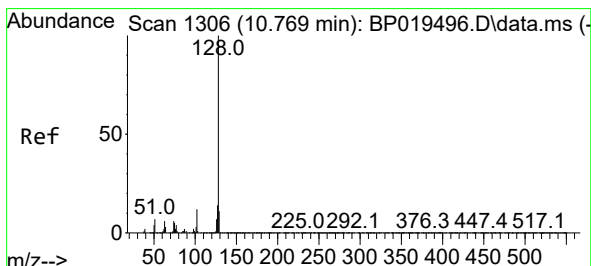
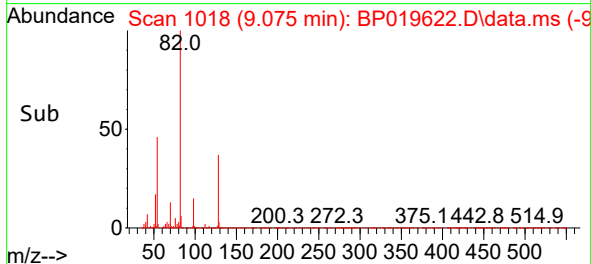
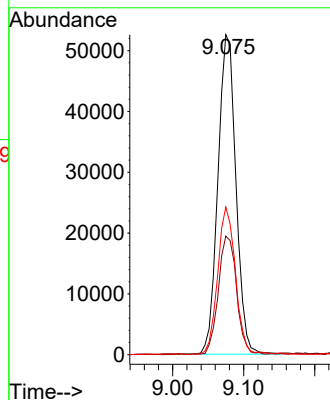
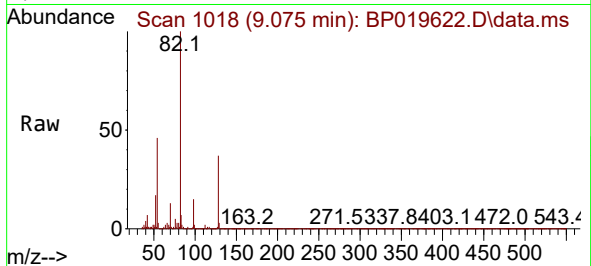




#23
Nitrobenzene-d5
Concen: 11.904 ng
RT: 9.075 min Scan# 1018
Delta R.T. -0.012 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

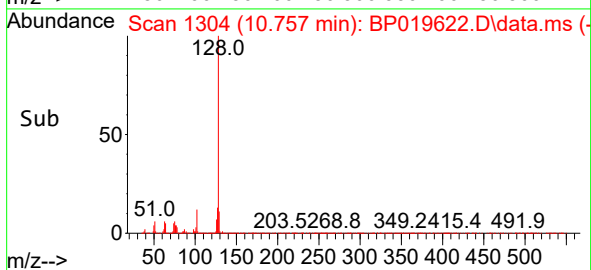
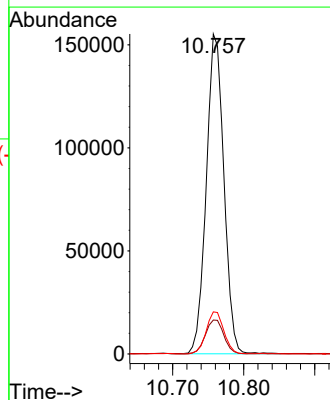
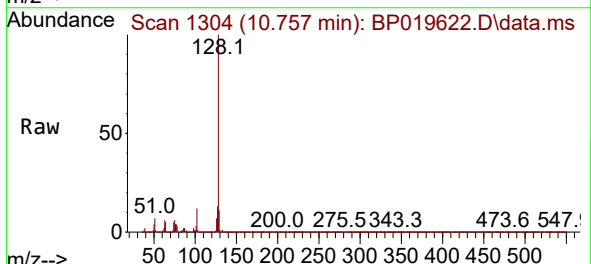
Instrument :
BNA_P
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HD-01-020724

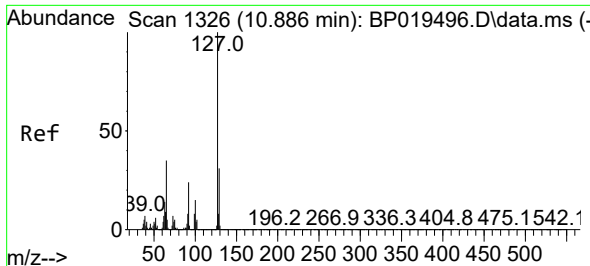
Tgt Ion: 82 Resp: 92373
Ion Ratio Lower Upper
82 100
128 37.1 29.7 44.5
54 46.2 36.8 55.2



#31
Naphthalene
Concen: 14.505 ng
RT: 10.757 min Scan# 1304
Delta R.T. -0.012 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Tgt Ion: 128 Resp: 267497
Ion Ratio Lower Upper
128 100
129 10.6 8.6 13.0
127 13.1 10.8 16.2

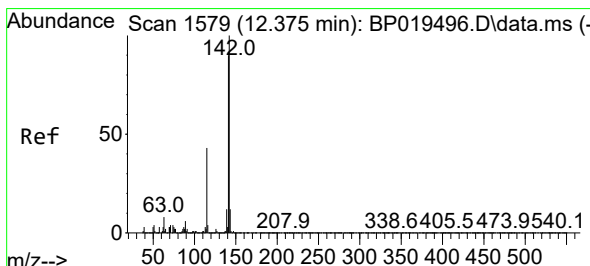
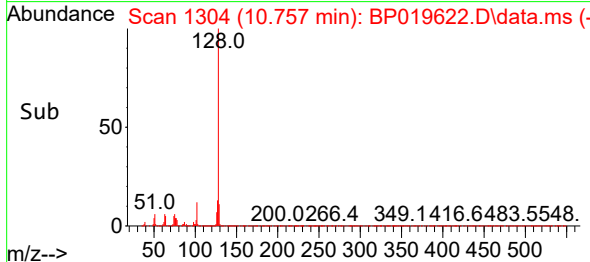
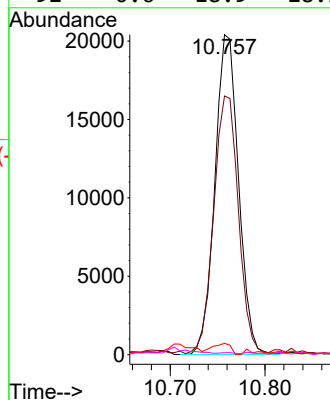
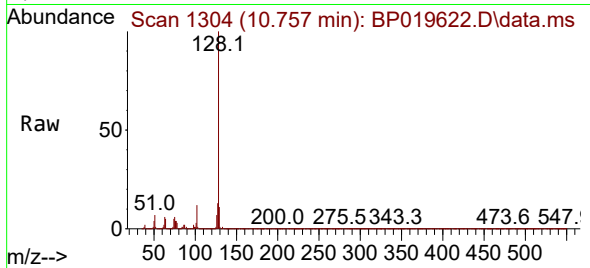




#33
4-Chloroaniline
Concen: 5.197 ng
RT: 10.757 min Scan# 1304
Delta R.T. -0.129 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

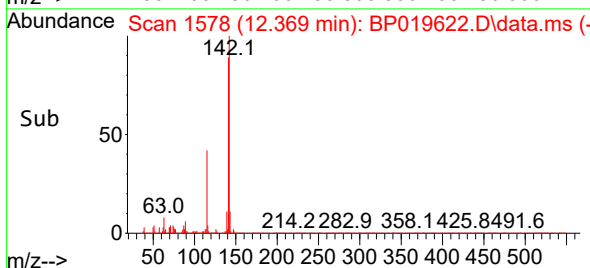
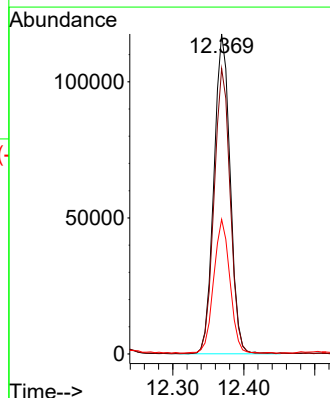
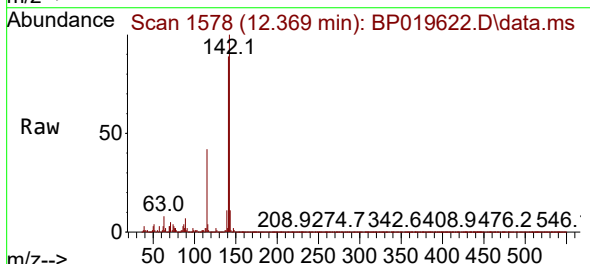
Instrument :
BNA_P
ClientSampleId :
HD-01-020724

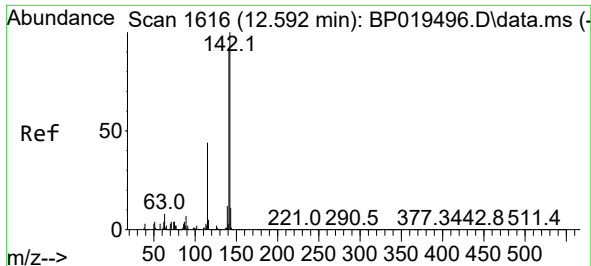
Tgt Ion:127	Resp:	35444
Ion Ratio	Lower	Upper
127	100	
129	80.8	24.6 36.8#
65	3.6	28.2 42.4#
92	0.6	18.9 28.3#



#37
2-Methylnaphthalene
Concen: 14.591 ng
RT: 12.369 min Scan# 1578
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Tgt Ion:142	Resp:	186212
Ion Ratio	Lower	Upper
142	100	
141	89.2	72.2 108.4
115	42.1	34.2 51.2

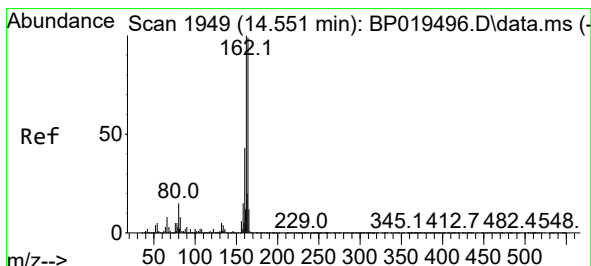
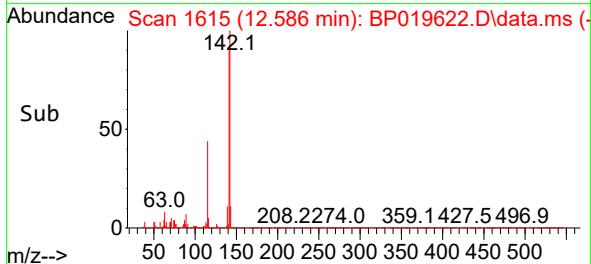
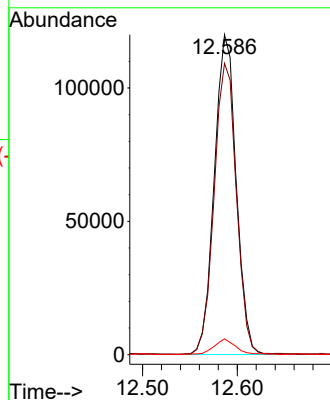
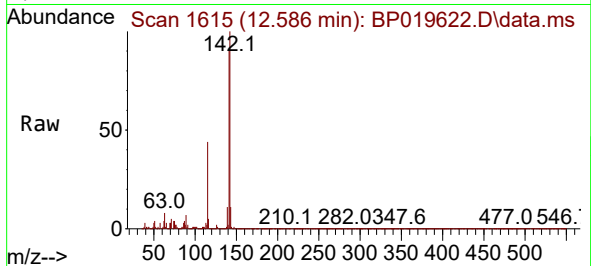




#38
1-Methylnaphthalene
Concen: 15.336 ng
RT: 12.586 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

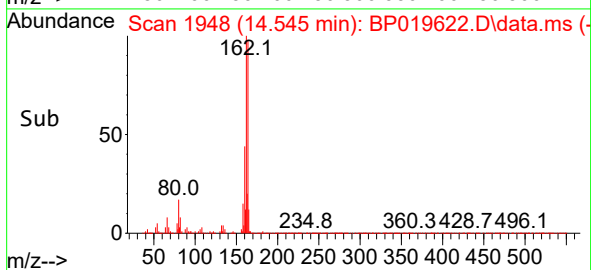
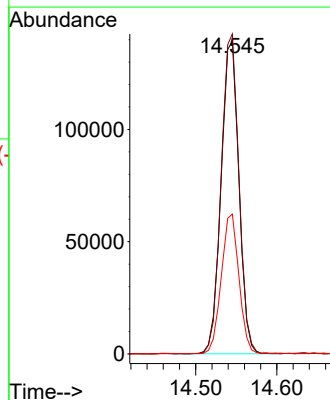
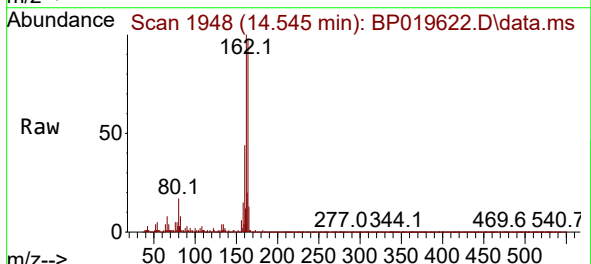
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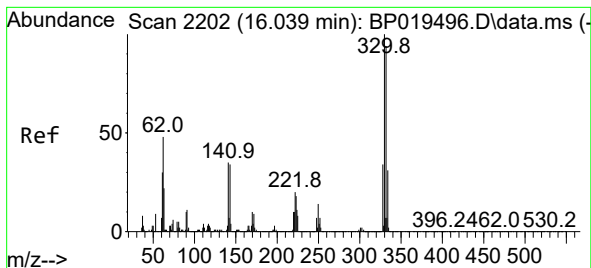
Tgt Ion:142 Resp: 192340
Ion Ratio Lower Upper
142 100
141 91.1 74.0 111.0
116 4.9 3.7 5.5



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.545 min Scan# 1948
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Tgt Ion:164 Resp: 212578
Ion Ratio Lower Upper
164 100
162 102.2 81.2 121.8
160 44.7 35.1 52.7





#42

2,4,6-Tribromophenol

Concen: 21.008 ng

RT: 16.033 min Scan# 21

Delta R.T. -0.006 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

ClientSampleId :

HD-01-020724

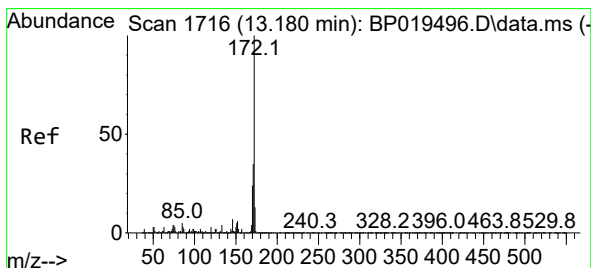
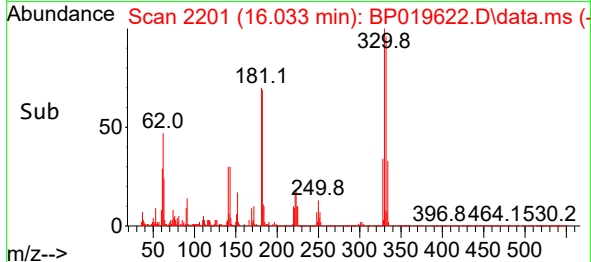
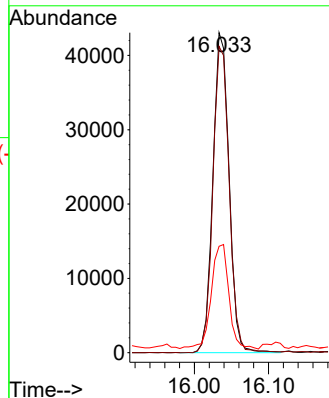
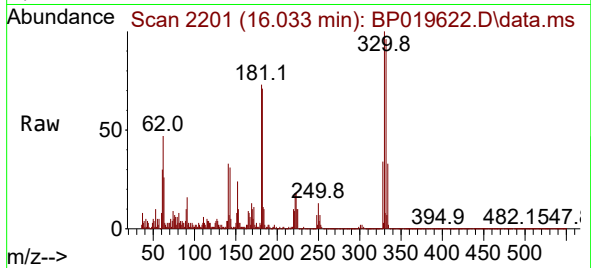
Tgt Ion:330 Resp: 65204

Ion Ratio Lower Upper

330 100

332 96.9 77.2 115.8

141 35.6 27.0 40.4



#45

2-Fluorobiphenyl

Concen: 12.798 ng

RT: 13.169 min Scan# 1714

Delta R.T. -0.012 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

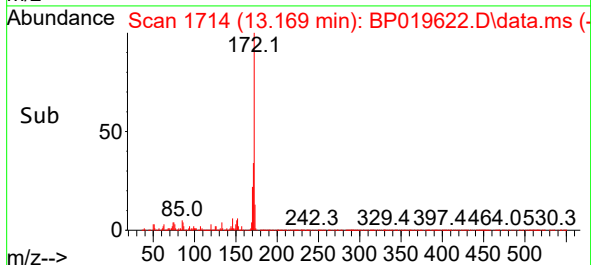
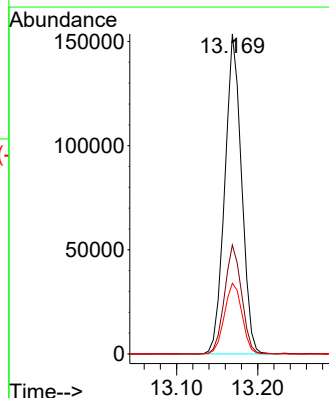
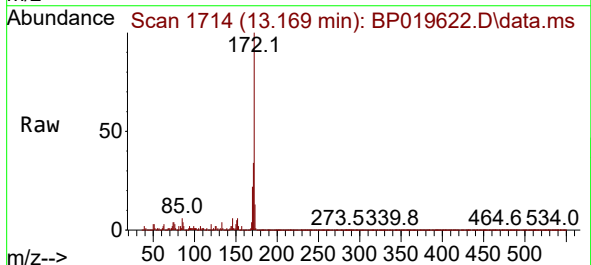
Tgt Ion:172 Resp: 220078

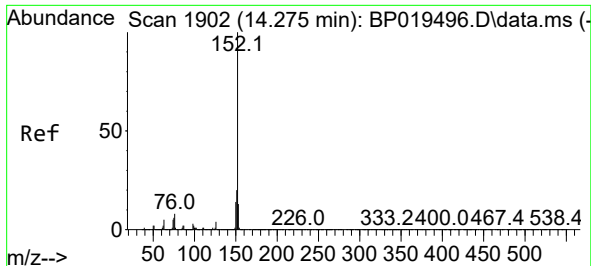
Ion Ratio Lower Upper

172 100

171 34.0 28.2 42.4

170 22.1 18.9 28.3

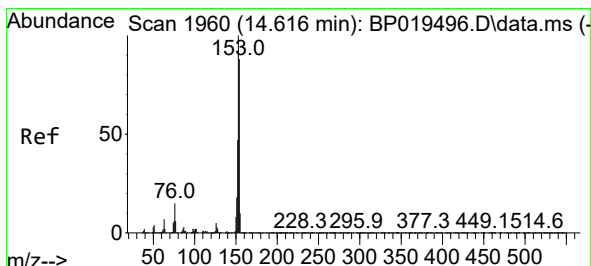
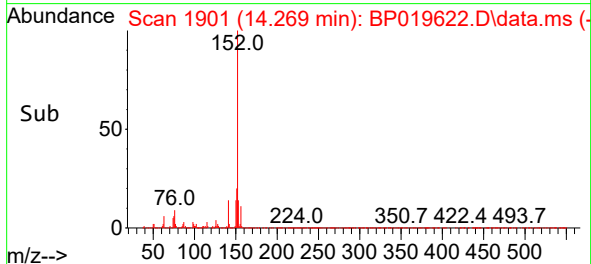
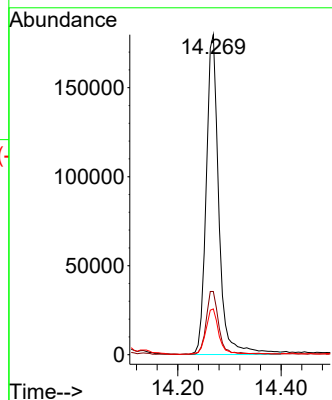
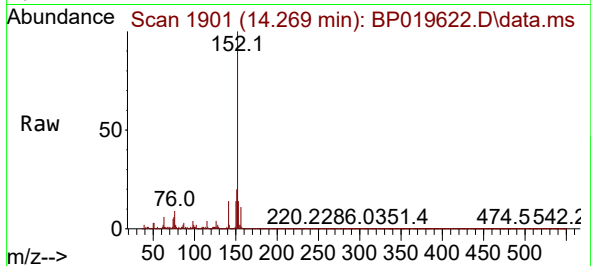




#49
Acenaphthylene
Concen: 15.607 ng
RT: 14.269 min Scan# 1901
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

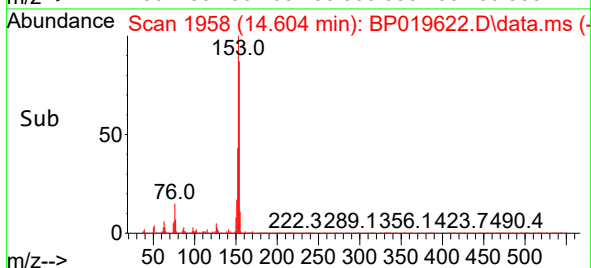
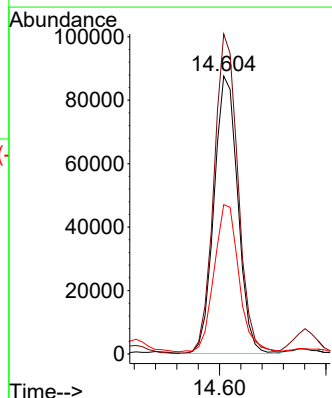
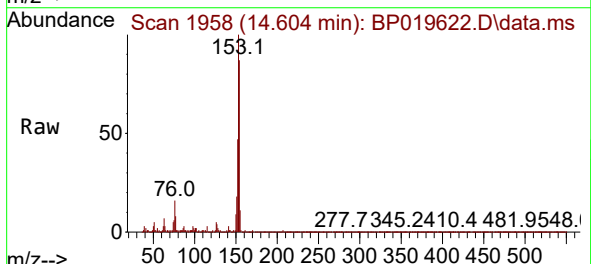
Instrument :
BNA_P
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HD-01-020724

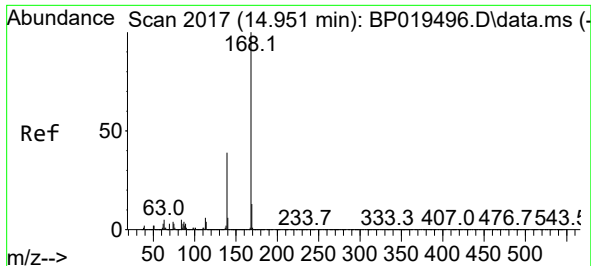
Tgt Ion:152 Resp: 304955
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.6
153 14.3 10.6 15.8



#52
Acenaphthene
Concen: 11.186 ng
RT: 14.604 min Scan# 1958
Delta R.T. -0.012 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Tgt Ion:154 Resp: 135662
Ion Ratio Lower Upper
154 100
153 115.2 90.5 135.7
152 53.7 42.1 63.1

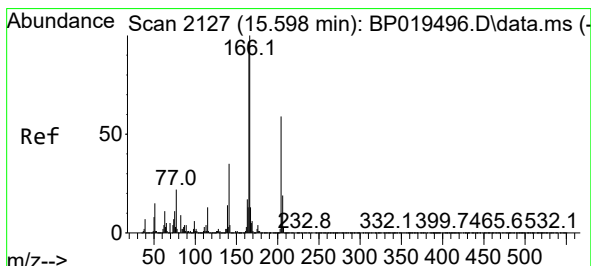
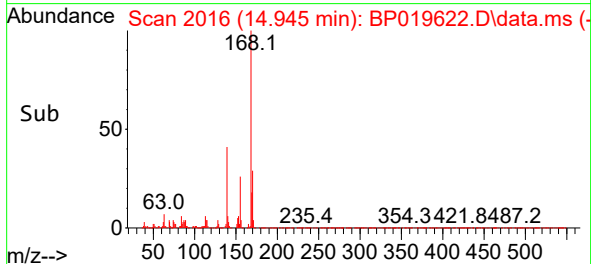
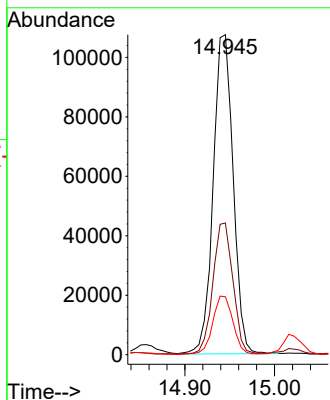
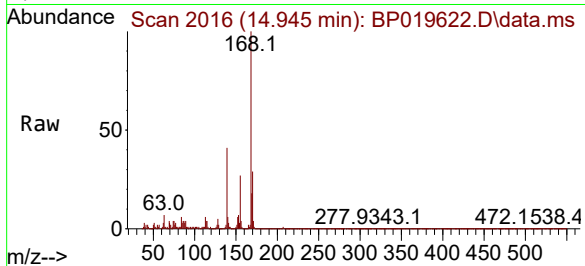




#55
Dibenzofuran
Concen: 8.395 ng
RT: 14.945 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

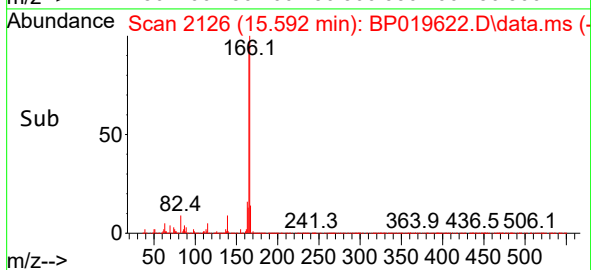
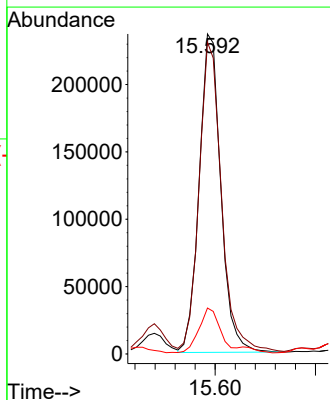
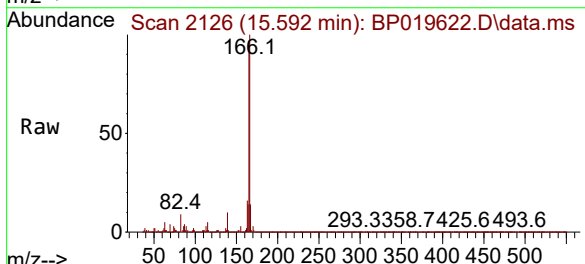
Instrument :
BNA_P
ClientSampleId :
HD-01-020724

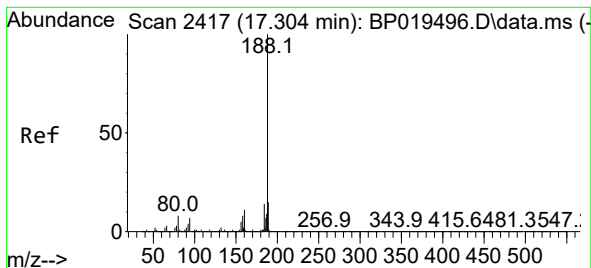
Tgt Ion:168 Resp: 165816
Ion Ratio Lower Upper
168 100
139 41.1 31.5 47.3
169 18.1 10.3 15.5#



#58
Fluorene
Concen: 22.582 ng
RT: 15.592 min Scan# 2126
Delta R.T. -0.006 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Tgt Ion:166 Resp: 355265
Ion Ratio Lower Upper
166 100
165 97.4 77.8 116.8
167 14.4 10.7 16.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.298 min Scan# 2416

Delta R.T. -0.006 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

ClientSampleId :

HD-01-020724

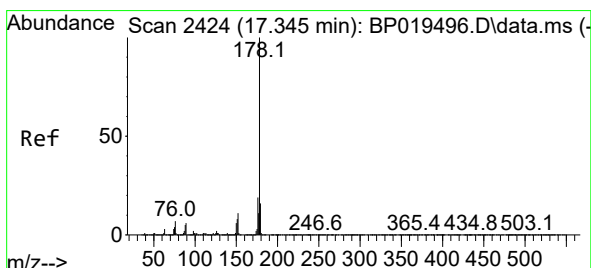
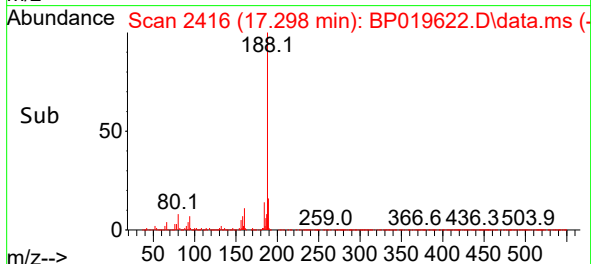
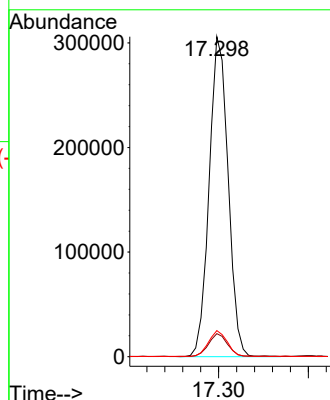
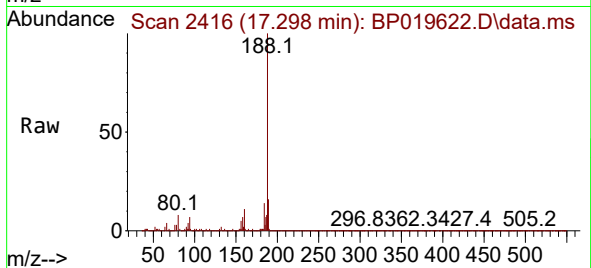
Tgt Ion:188 Resp: 448669

Ion Ratio Lower Upper

188 100

94 7.2 5.4 8.2

80 8.1 6.3 9.5



#71

Phenanthrene

Concen: 83.876 ng

RT: 17.345 min Scan# 2424

Delta R.T. 0.000 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

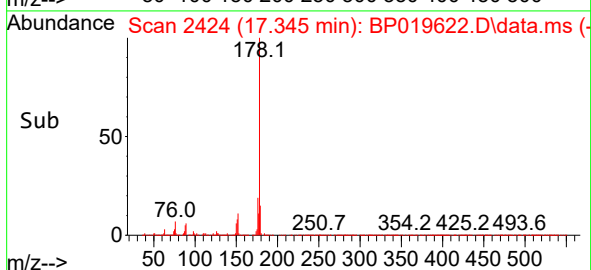
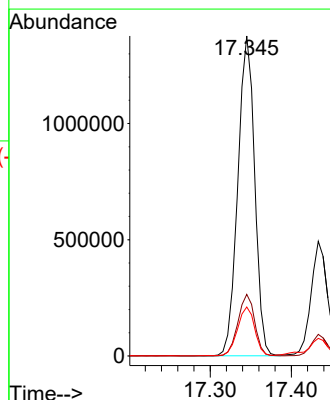
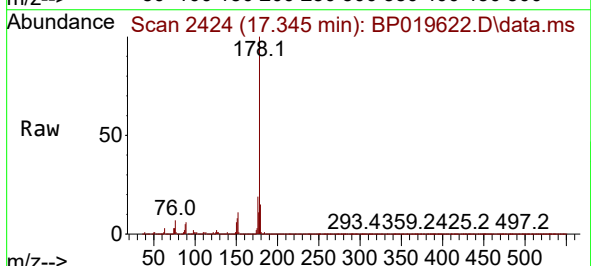
Tgt Ion:178 Resp: 1980483

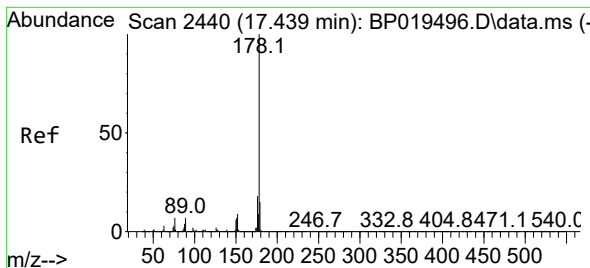
Ion Ratio Lower Upper

178 100

176 19.2 15.5 23.3

179 15.3 12.6 19.0





#72

Anthracene

Concen: 28.720 ng

RT: 17.433 min Scan# 2440

Delta R.T. -0.006 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

ClientSampleId :

HD-01-020724

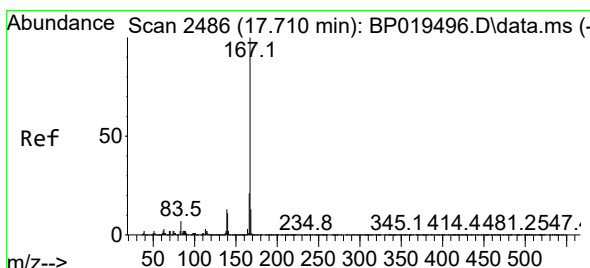
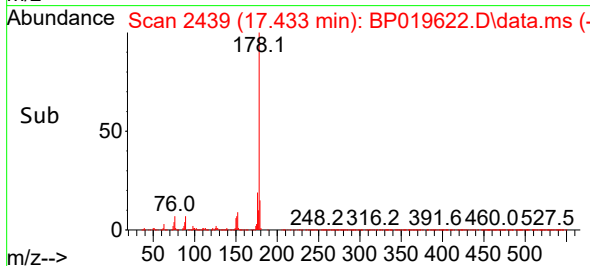
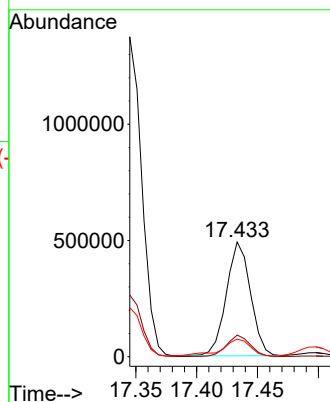
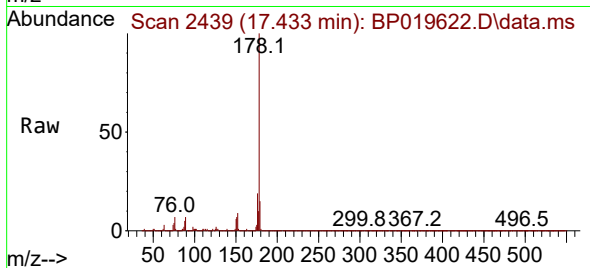
Tgt Ion:178 Resp: 676483

Ion Ratio Lower Upper

178 100

176 18.9 14.7 22.1

179 15.3 12.2 18.2



#73

Carbazole

Concen: 7.361 ng

RT: 17.710 min Scan# 2486

Delta R.T. 0.000 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

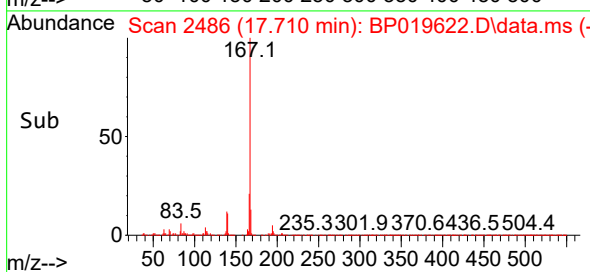
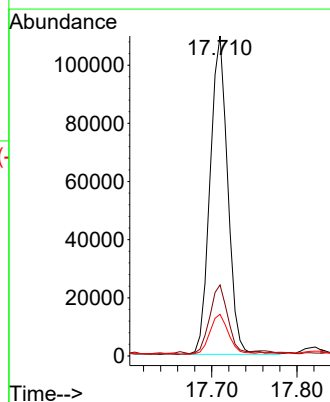
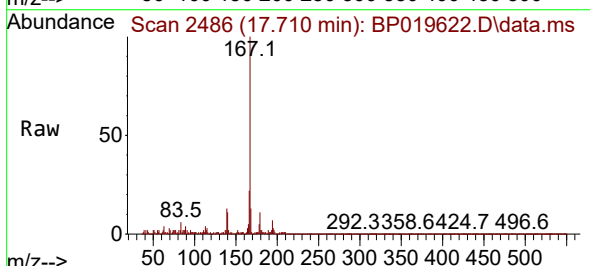
Tgt Ion:167 Resp: 157501

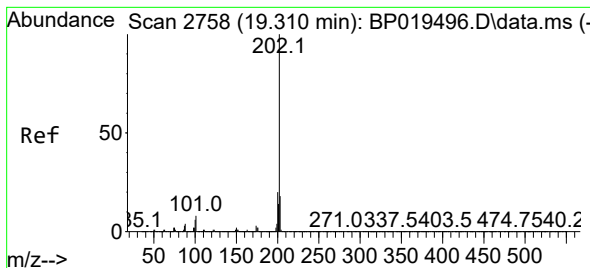
Ion Ratio Lower Upper

167 100

166 22.2 17.2 25.8

139 13.0 10.6 15.8





#75

Fluoranthene

Concen: 75.734 ng

RT: 19.316 min Scan# 21

Delta R.T. 0.006 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

ClientSampleId :

HD-01-020724

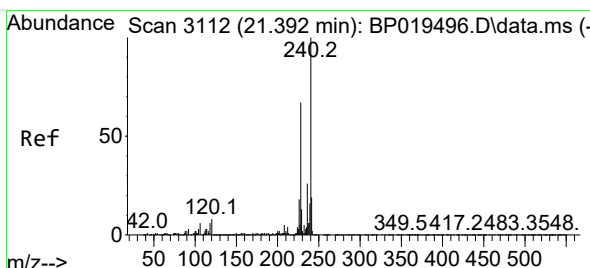
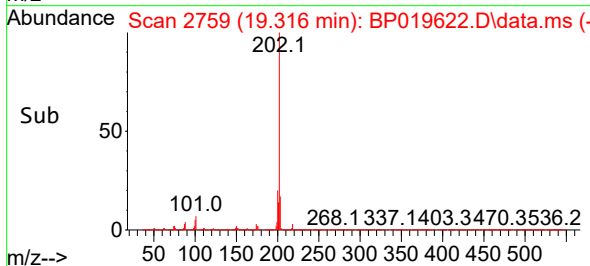
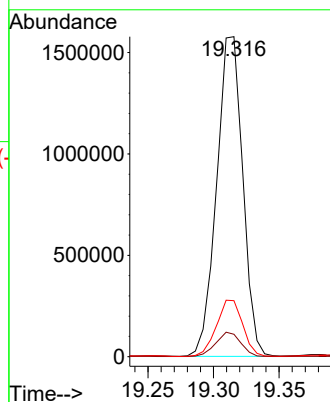
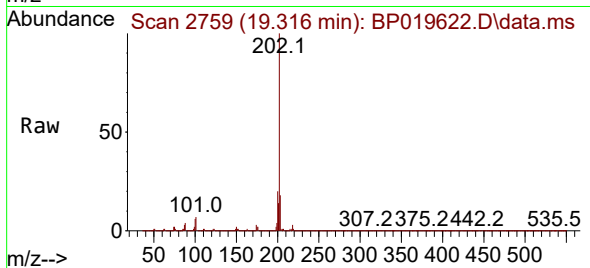
Tgt Ion:202 Resp: 2184520

Ion Ratio Lower Upper

202 100

101 7.0 0.0 27.7

203 17.5 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: BP019622.D

Acq: 08 Feb 2024 22:50

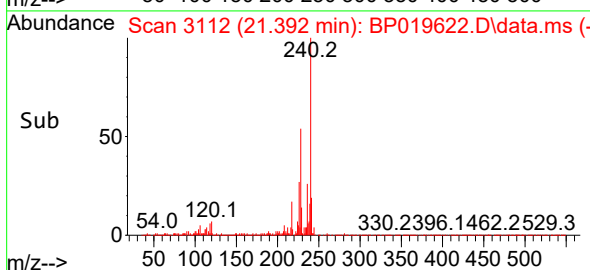
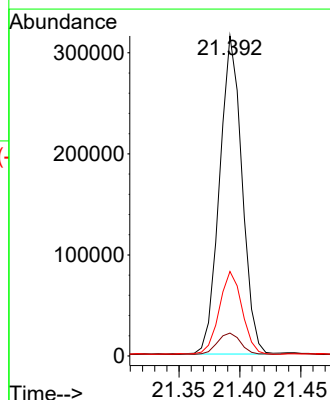
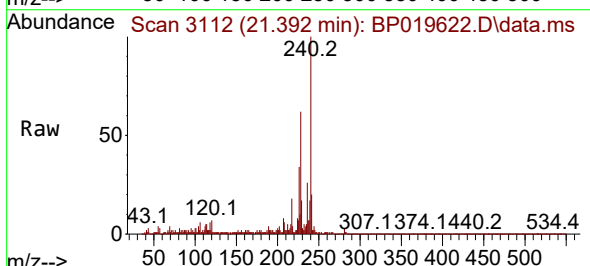
Tgt Ion:240 Resp: 403976

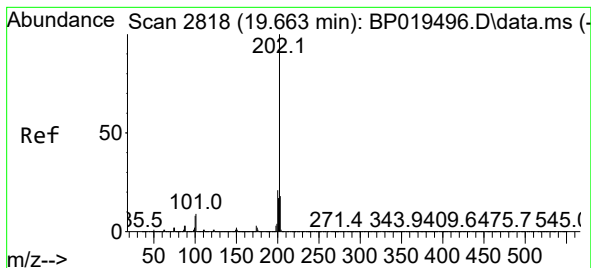
Ion Ratio Lower Upper

240 100

120 8.6 6.1 9.1

236 26.4 20.7 31.1





#78

Pyrene

Concen: 77.096 ng

RT: 19.663 min Scan# 2818

Delta R.T. 0.000 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

ClientSampleId :

HD-01-020724

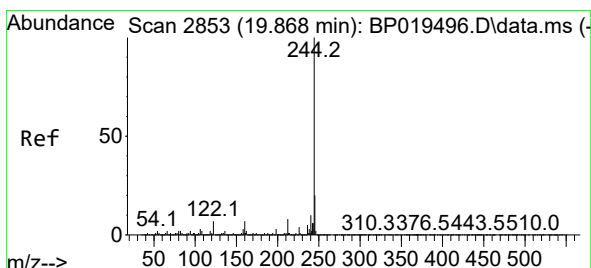
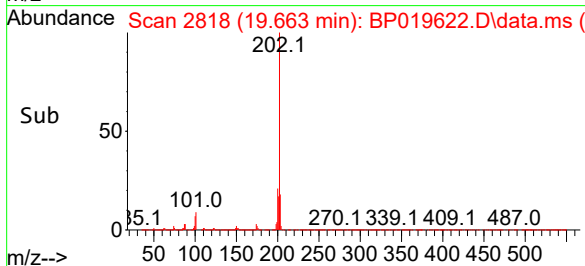
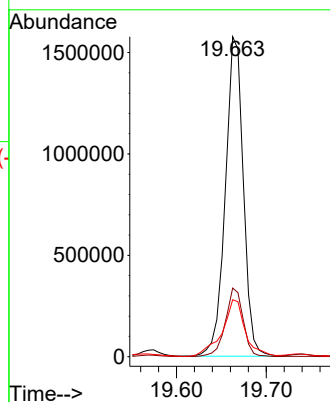
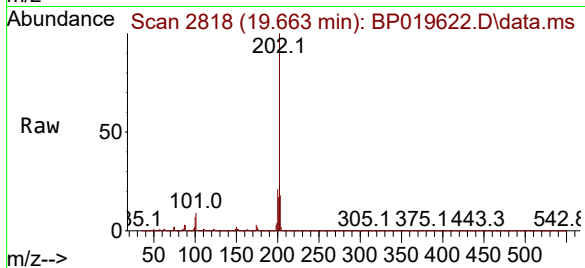
Tgt Ion:202 Resp: 2198067

Ion Ratio Lower Upper

202 100

200 21.5 16.9 25.3

203 17.8 14.2 21.2



#79

Terphenyl-d14

Concen: 13.555 ng

RT: 19.863 min Scan# 2852

Delta R.T. -0.006 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

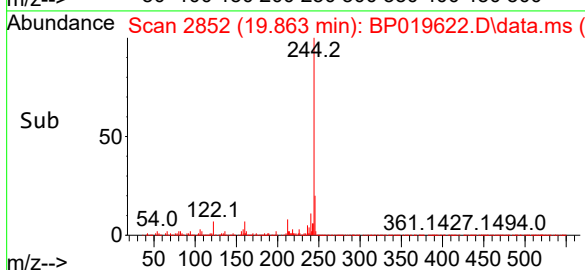
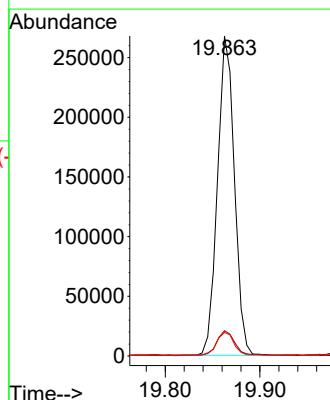
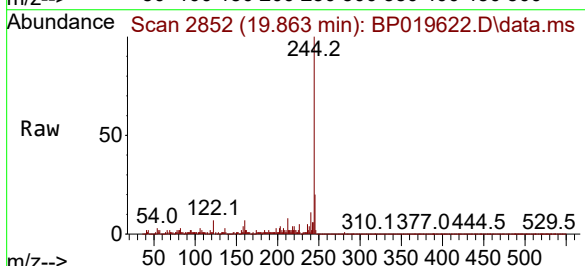
Tgt Ion:244 Resp: 332981

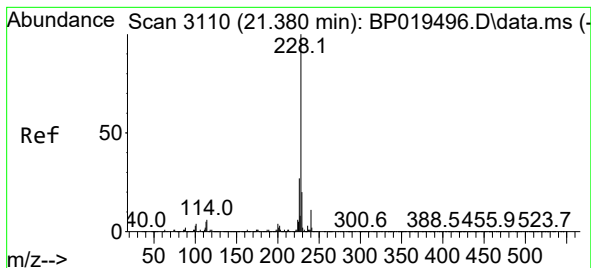
Ion Ratio Lower Upper

244 100

212 7.9 6.1 9.1

122 7.4 5.9 8.9





#81

Benzo(a)anthracene

Concen: 29.421 ng

RT: 21.433 min Scan# 3110

Delta R.T. 0.053 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

ClientSampleId :

HD-01-020724

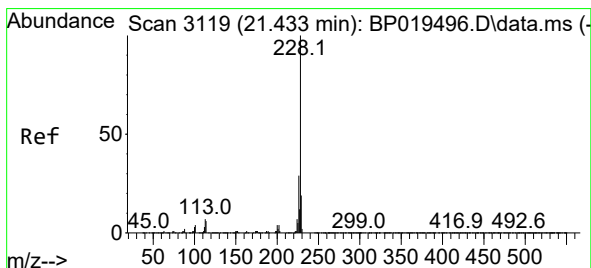
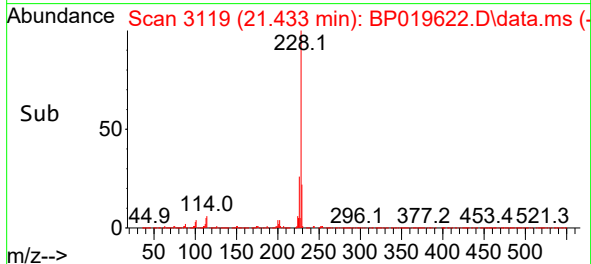
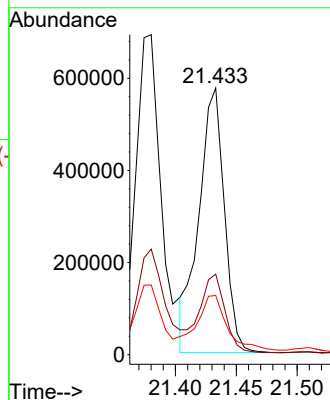
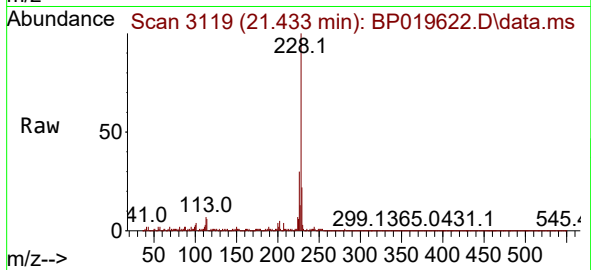
Tgt Ion:228 Resp: 836648

Ion Ratio Lower Upper

228 100

226 30.3 21.7 32.5

229 22.2 15.6 23.4



#83

Chrysene

Concen: 30.989 ng

RT: 21.433 min Scan# 3119

Delta R.T. 0.000 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

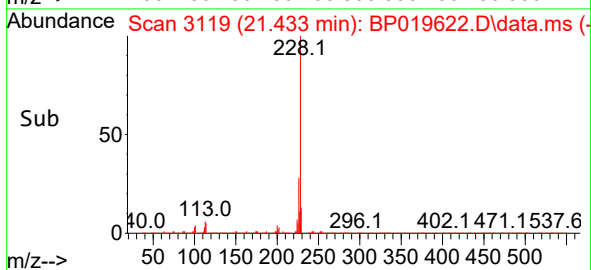
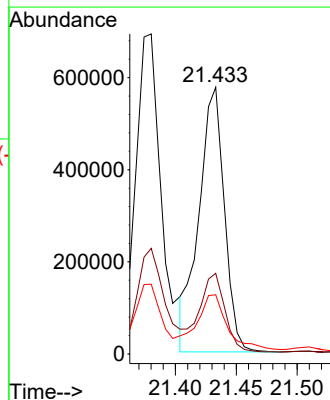
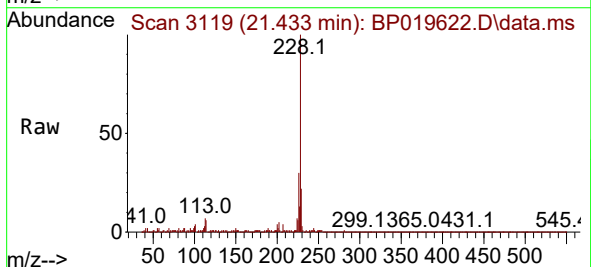
Tgt Ion:228 Resp: 836648

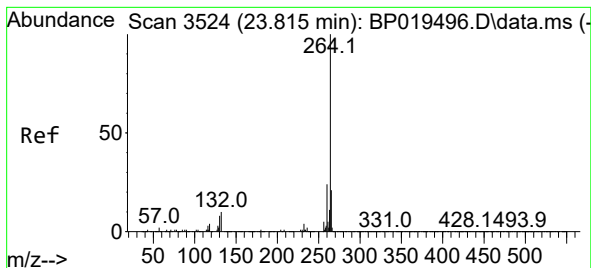
Ion Ratio Lower Upper

228 100

226 30.3 23.4 35.2

229 22.2 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.815 min Scan# 3

Delta R.T. 0.000 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

ClientSampleId :

HD-01-020724

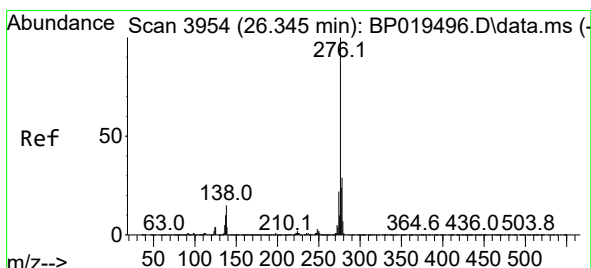
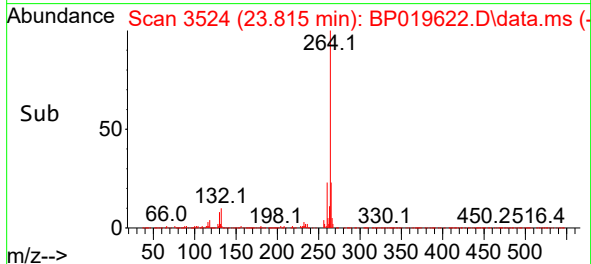
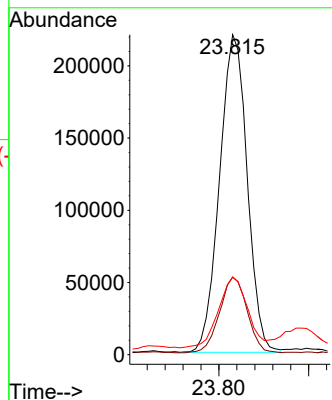
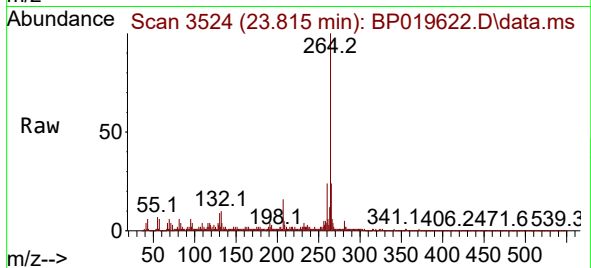
Tgt Ion:264 Resp: 469948

Ion Ratio Lower Upper

264 100

260 24.2 19.2 28.8

265 24.3 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 14.100 ng

RT: 26.345 min Scan# 3954

Delta R.T. 0.000 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

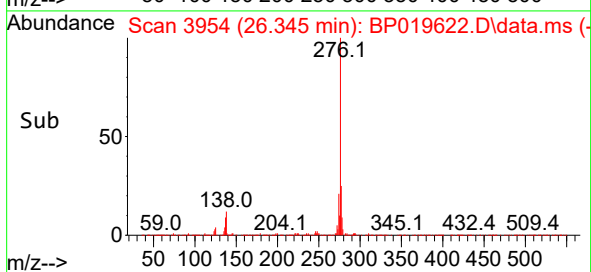
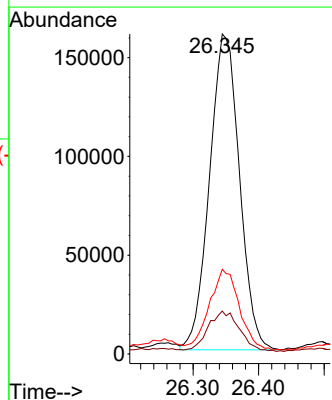
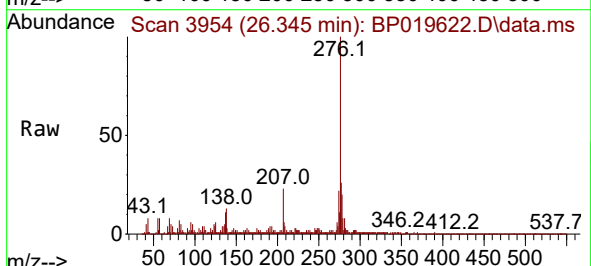
Tgt Ion:276 Resp: 507201

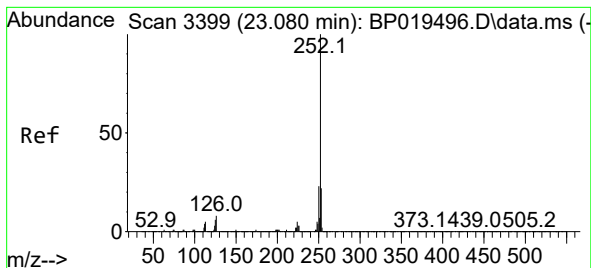
Ion Ratio Lower Upper

276 100

138 13.4 13.1 19.7

277 25.4 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 37.311 ng

RT: 23.080 min Scan# 3399

Delta R.T. 0.000 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

ClientSampleId :

HD-01-020724

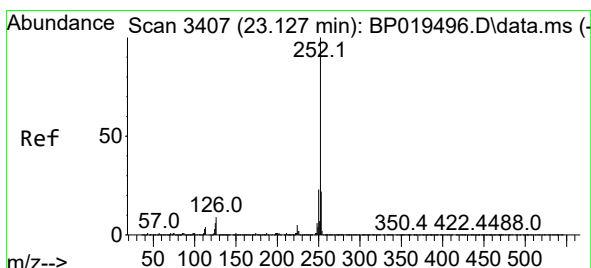
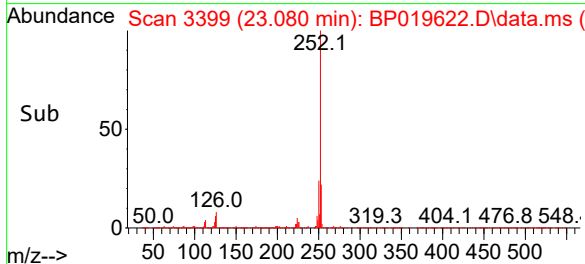
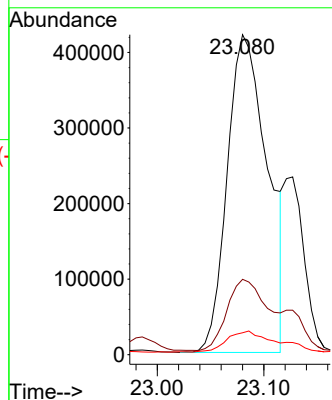
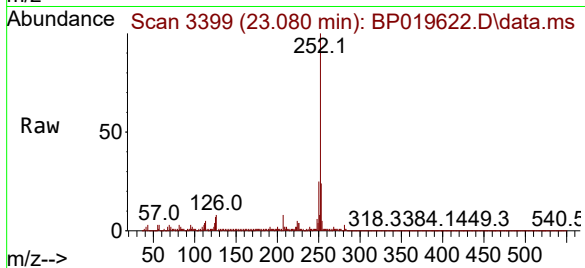
Tgt Ion:252 Resp: 1105105

Ion Ratio Lower Upper

252 100

253 23.6 17.3 25.9

125 6.9 4.9 7.3



#89

Benzo(k)fluoranthene

Concen: 39.060 ng

RT: 23.080 min Scan# 3399

Delta R.T. -0.047 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

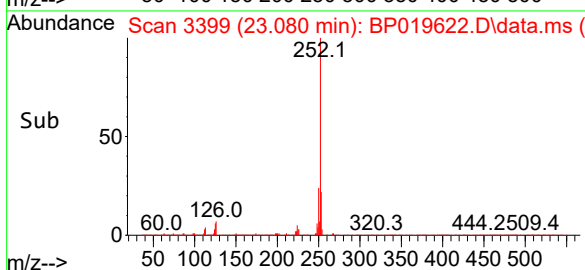
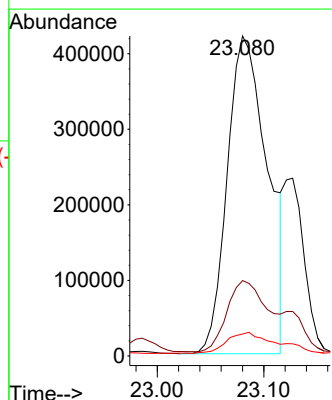
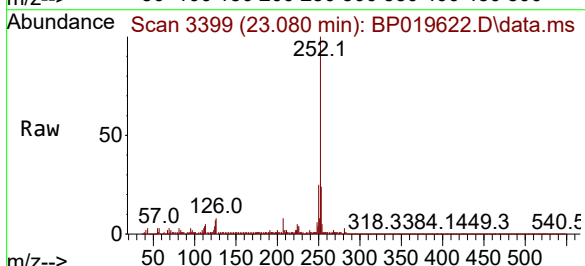
Tgt Ion:252 Resp: 1105105

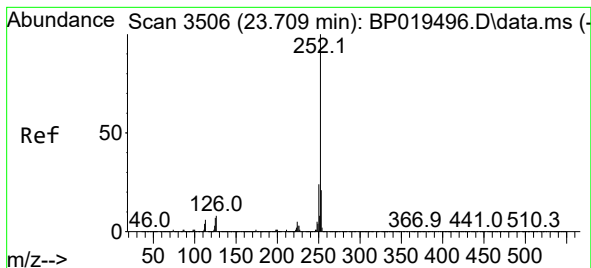
Ion Ratio Lower Upper

252 100

253 23.6 17.1 25.7

125 6.9 5.0 7.6





#90

Benzo(a)pyrene

Concen: 33.366 ng

RT: 23.709 min Scan# 31

Delta R.T. 0.000 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

Instrument :

BNA_P

ClientSampleId :

HD-01-020724

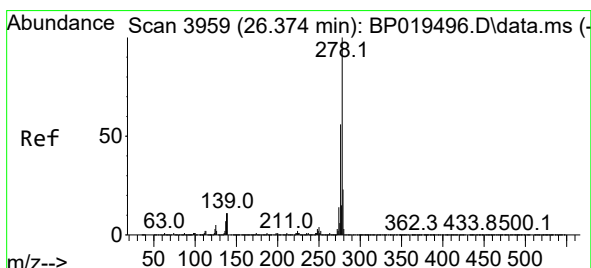
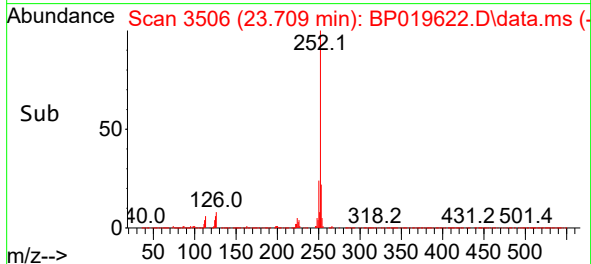
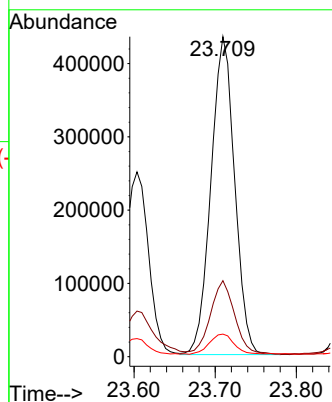
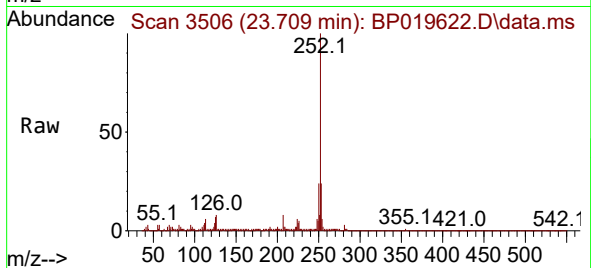
Tgt Ion:252 Resp: 879325

Ion Ratio Lower Upper

252 100

253 23.8 17.1 25.7

125 7.1 5.6 8.4



#91

Dibenzo(a,h)anthracene

Concen: 4.863 ng

RT: 26.362 min Scan# 3957

Delta R.T. -0.012 min

Lab File: BP019622.D

Acq: 08 Feb 2024 22:50

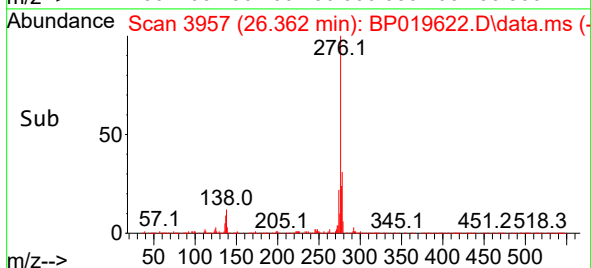
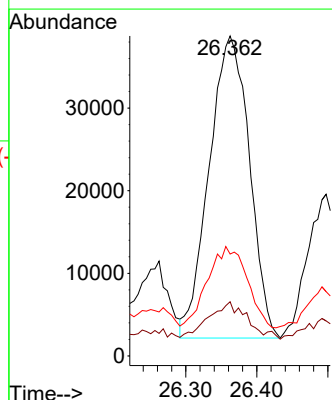
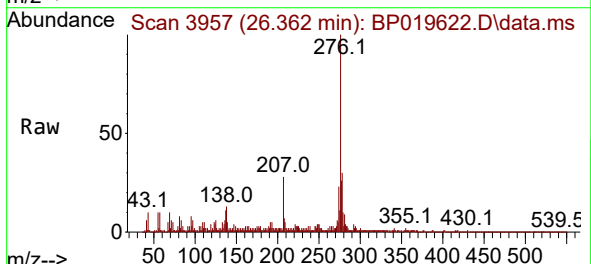
Tgt Ion:278 Resp: 143884

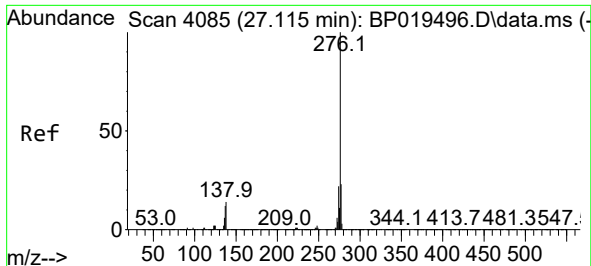
Ion Ratio Lower Upper

278 100

139 17.0 8.6 12.8#

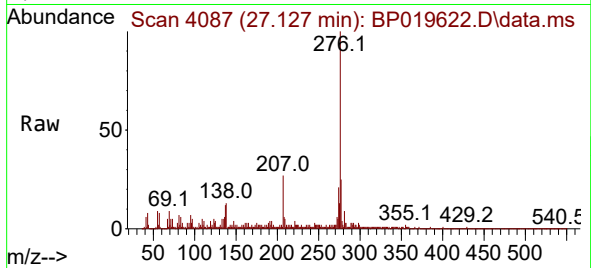
279 31.9 18.5 27.7#





#92
Benzo(g,h,i)perylene
Concen: 16.293 ng
RT: 27.127 min Scan# 4087
Delta R.T. 0.012 min
Lab File: BP019622.D
Acq: 08 Feb 2024 22:50

Instrument :
BNA_P
ClientSampleId :
HD-01-020724



Tgt Ion:276 Resp: 489050
Ion Ratio Lower Upper
276 100
277 24.7 18.6 28.0
138 12.6 10.9 16.3

