

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052623\
 Data File : BP015325.D
 Acq On : 27 May 2023 00:09
 Operator : CG/JU
 Sample : 02923-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 OR-03-052423

Quant Time: May 29 02:10:01 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP052423.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 25 01:41:43 2023
 Response via : Initial Calibration

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

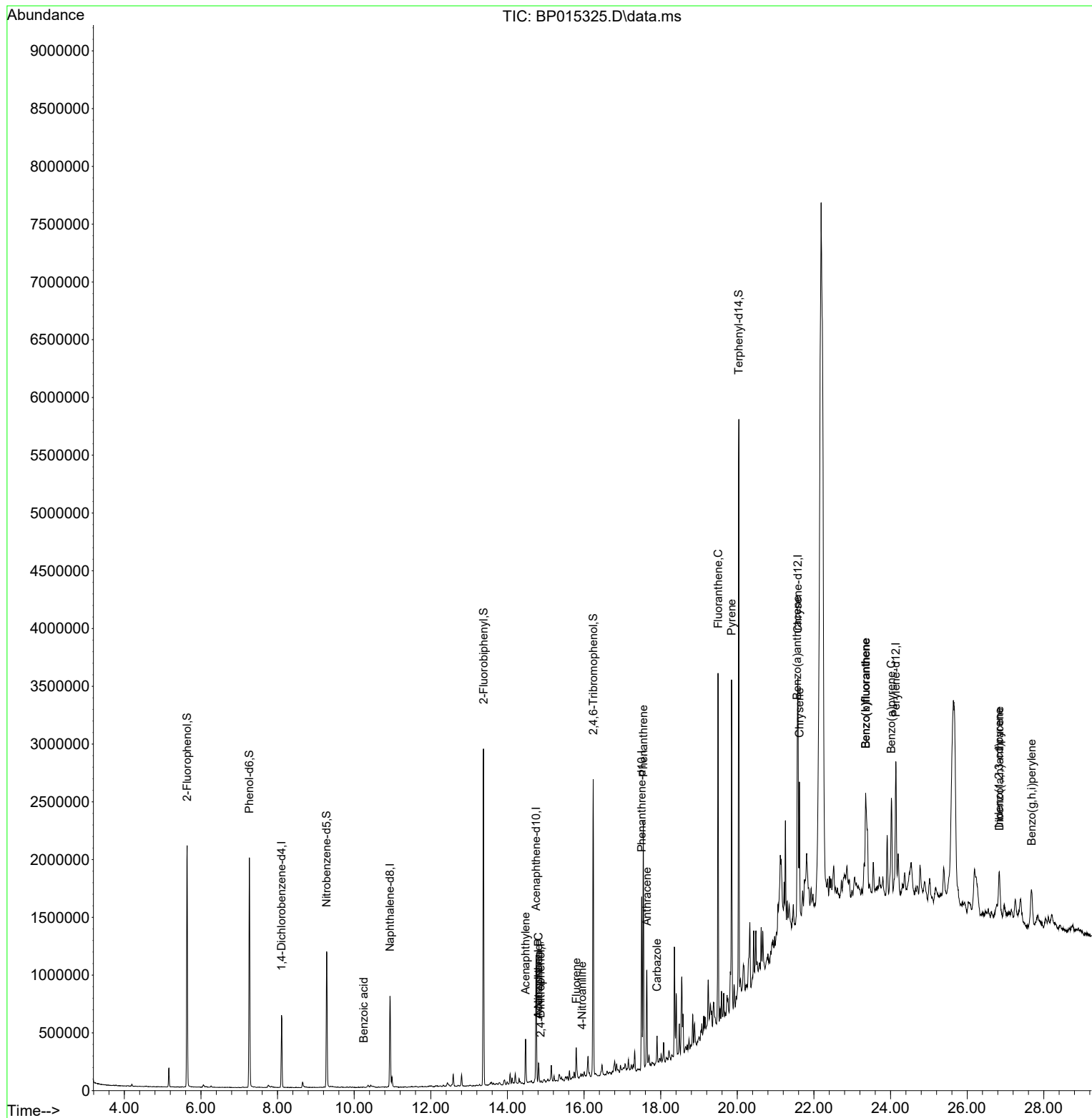
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.105	152	164388	20.000	ng	0.00
21) Naphthalene-d8	10.934	136	636908	20.000	ng	0.00
39) Acenaphthene-d10	14.751	164	374740	20.000	ng	0.00
64) Phenanthrene-d10	17.504	188	867129	20.000	ng	0.00
76) Chrysene-d12	21.580	240	793159	20.000	ng	0.00
86) Perylene-d12	24.139	264	981171	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.640	112	872629	87.962	ng	0.00
7) Phenol-d6	7.263	99	1091980	83.992	ng	0.00
23) Nitrobenzene-d5	9.281	82	682642	52.332	ng	-0.01
42) 2,4,6-Tribromophenol	16.239	330	471220	92.533	ng	0.00
45) 2-Fluorobiphenyl	13.375	172	1434902	51.407	ng	0.00
79) Terphenyl-d14	20.039	244	2296149	54.453	ng	0.00
Target Compounds						
9) Benzaldehyde	7.263	77	3114	Below Cal		Qvalue
32) Benzoic acid	10.251	122	100	6.354	ng	# 27
49) Acenaphthylene	14.475	152	299587	8.359	ng	# 1
52) Acenaphthene	14.810	154	60165	2.819	ng	# 100
54) 2,4-Dinitrophenol	14.863	184	6	5.189	ng	# 98
56) 4-Nitrophenol	14.810	139	1073	3.614	ng	# 1
58) Fluorene	15.798	166	139561	5.175	ng	# 43
62) 4-Nitroaniline	15.951	138	395	2.360	ng	# 100
71) Phenanthrene	17.545	178	1237203	26.770	ng	# 99
72) Anthracene	17.639	178	537945	11.622	ng	# 97
73) Carbazole	17.904	167	139989	3.416	ng	# 98
75) Fluoranthene	19.498	202	1651916	30.597	ng	# 100
78) Pyrene	19.851	202	1613596	28.433	ng	# 97
81) Benzo(a)anthracene	21.563	228	692220	12.561	ng	# 96
83) Chrysene	21.621	228	700591	13.258	ng	# 95
87) Indeno(1,2,3-cd)pyrene	26.833	276	419658	5.901	ng	# 94
88) Benzo(b)fluoranthene	23.351	252	790635	13.253	ng	# 93
89) Benzo(k)fluoranthene	23.351	252	790635	13.162	ng	# 94
90) Benzo(a)pyrene	24.021	252	622105	10.801	ng	# 78
91) Dibenzo(a,h)anthracene	26.845	278	121408	2.079	ng	# 98
92) Benzo(g,h,i)perylene	27.680	276	459186	7.738	ng	# 98

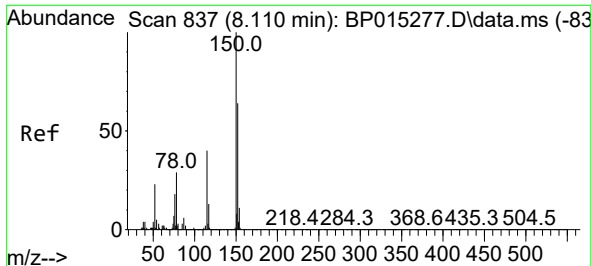
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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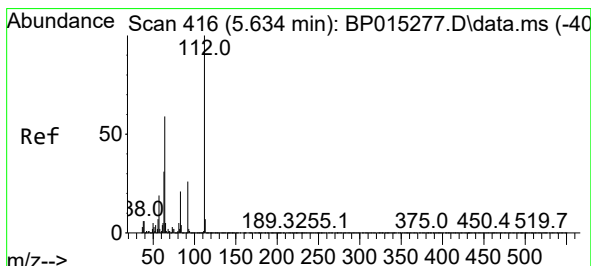
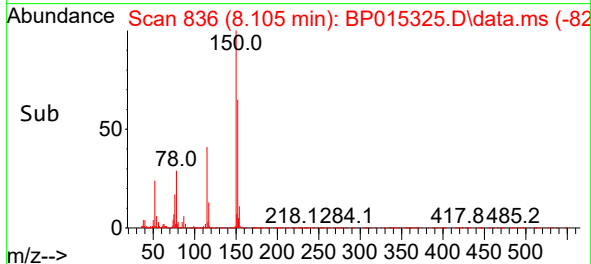
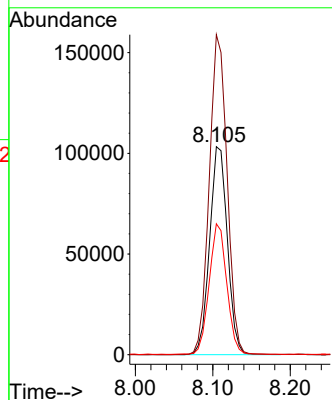
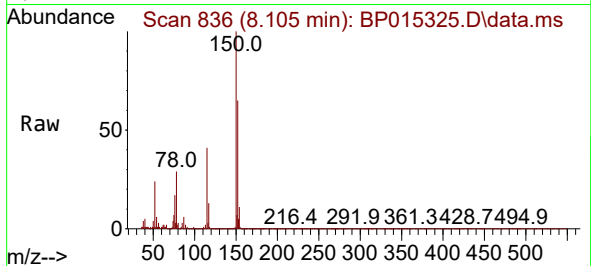




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.105 min Scan# 81
Delta R.T. -0.005 min
Lab File: BP015325.D
Acq: 27 May 2023 00:09

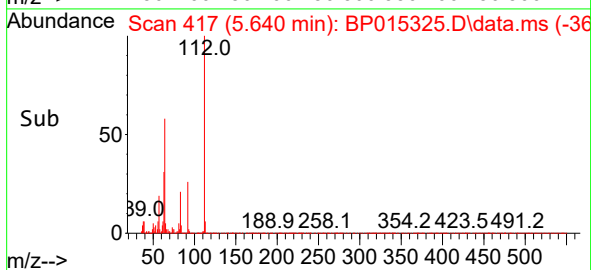
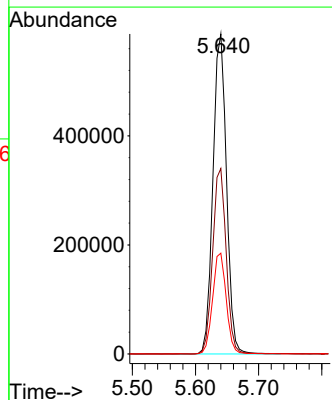
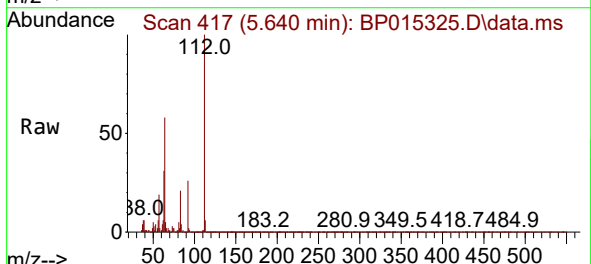
Instrument :
BNA_P
ClientSampleId :
OR-03-052423

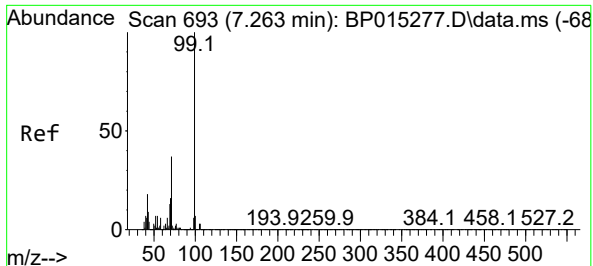
Tgt Ion:152 Resp: 164388
Ion Ratio Lower Upper
152 100
150 153.9 124.2 186.2
115 62.9 49.1 73.7



#5
2-Fluorophenol
Concen: 87.962 ng
RT: 5.640 min Scan# 417
Delta R.T. 0.006 min
Lab File: BP015325.D
Acq: 27 May 2023 00:09

Tgt Ion:112 Resp: 872629
Ion Ratio Lower Upper
112 100
64 58.0 47.2 70.8
63 31.5 24.6 37.0



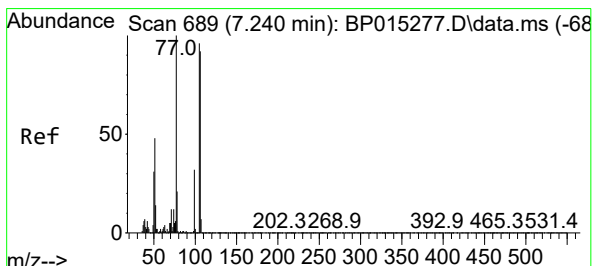
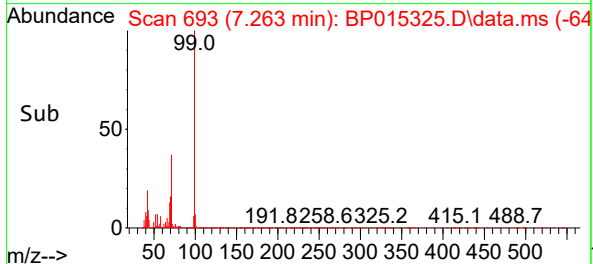
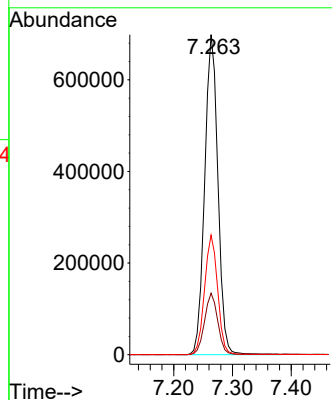
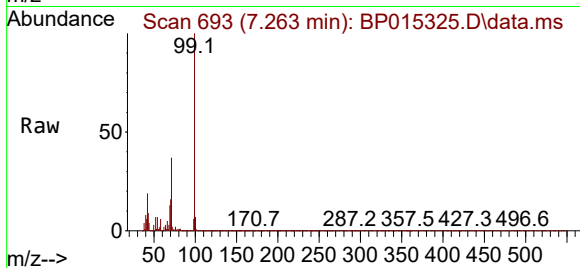


#7
Phenol-d6
Concen: 83.992 ng
RT: 7.263 min Scan# 693
Delta R.T. -0.000 min
Lab File: BP015325.D
Acq: 27 May 2023 00:09

Instrument :
BNA_P
ClientSampleId :
OR-03-052423

Tgt Ion: 99 Resp: 1091980

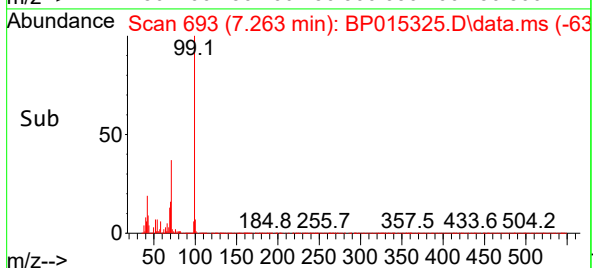
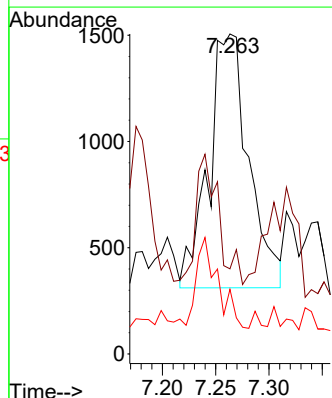
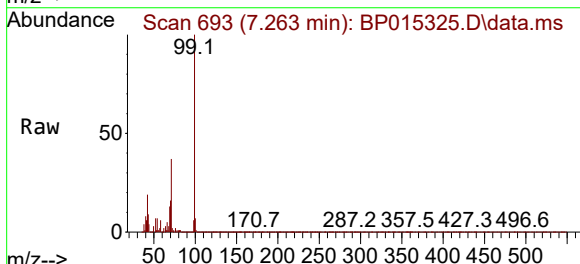
Ion	Ratio	Lower	Upper
99	100		
42	19.2	14.6	22.0
71	37.4	29.4	44.2

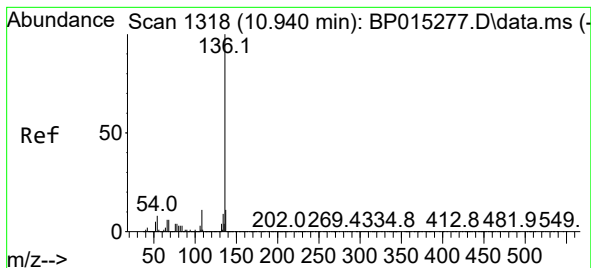


#9
Benzaldehyde
Concen: Below Cal
RT: 7.263 min Scan# 693
Delta R.T. 0.023 min
Lab File: BP015325.D
Acq: 27 May 2023 00:09

Tgt Ion: 77 Resp: 3114

Ion	Ratio	Lower	Upper
77	100		
105	26.6	75.9	115.9#
106	20.2	72.3	112.3#

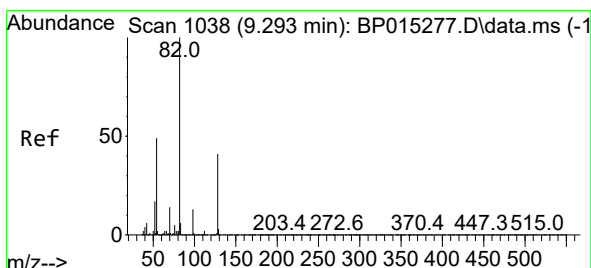
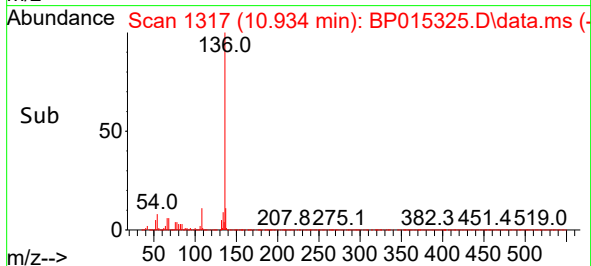
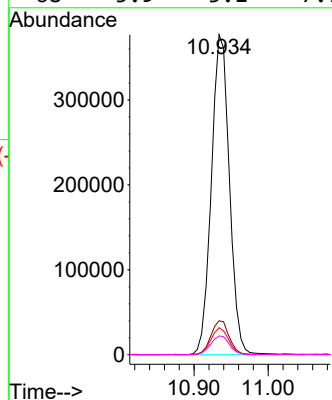
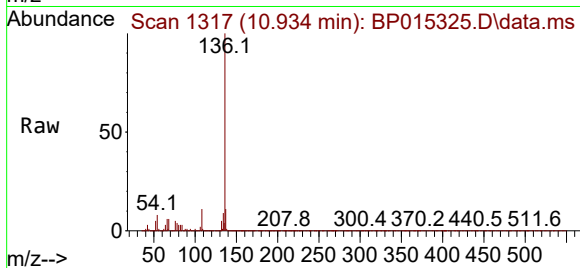




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.934 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP015325.D
Acq: 27 May 2023 00:09

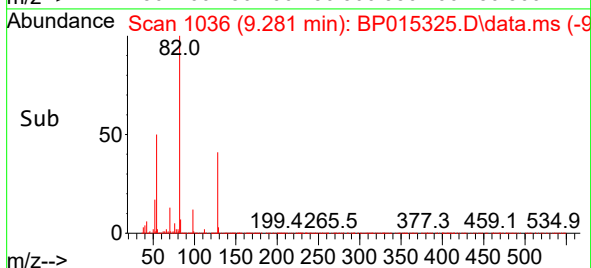
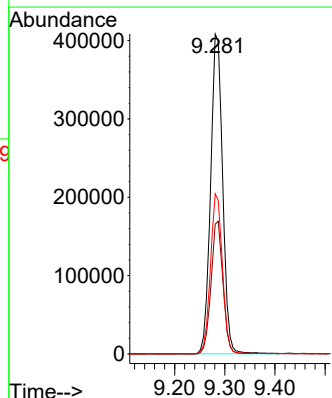
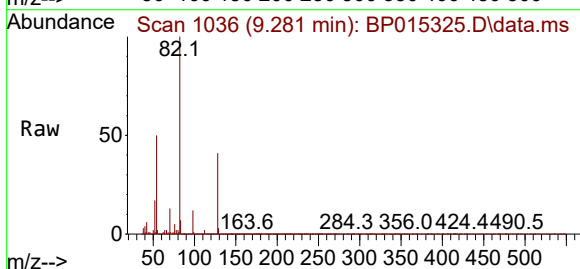
Instrument :
BNA_P
ClientSampleId :
OR-03-052423

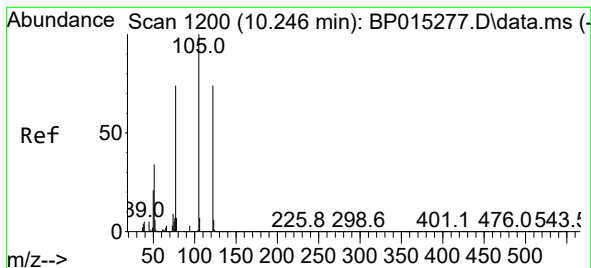
Tgt Ion:	136	Resp:	636908
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.9	13.3
54	8.5	6.3	9.5
68	5.9	5.1	7.7



#23
Nitrobenzene-d5
Concen: 52.332 ng
RT: 9.281 min Scan# 1036
Delta R.T. -0.012 min
Lab File: BP015325.D
Acq: 27 May 2023 00:09

Tgt Ion:	82	Resp:	682642
Ion	Ratio	Lower	Upper
82	100		
128	40.6	33.0	49.4
54	50.0	39.2	58.8





#32

Benzoic acid

Concen: 6.354 ng

RT: 10.251 min Scan# 1201

Delta R.T. 0.005 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

Instrument :

BNA_P

ClientSampleId :

OR-03-052423

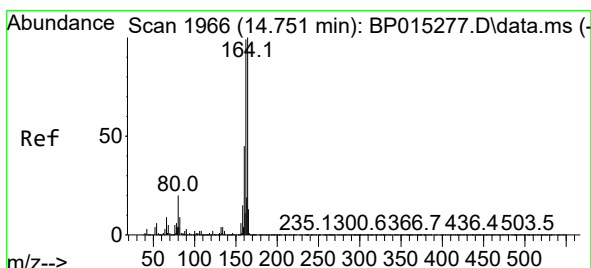
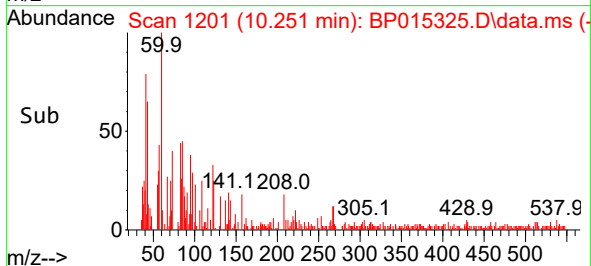
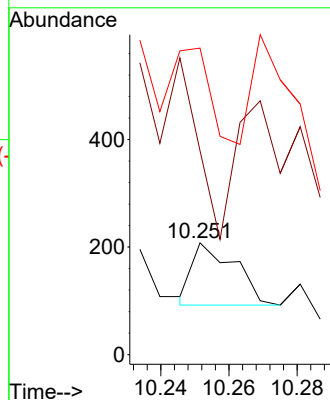
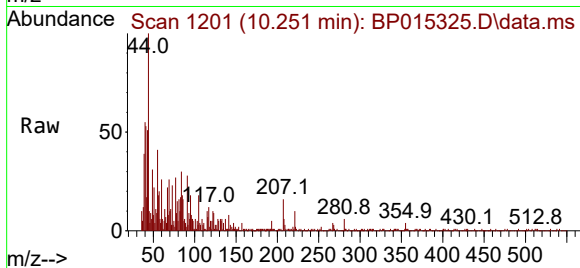
Tgt Ion:122 Resp: 100

Ion Ratio Lower Upper

122 100

105 182.2 109.5 149.5#

77 274.0 78.2 118.2#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.751 min Scan# 1966

Delta R.T. -0.000 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

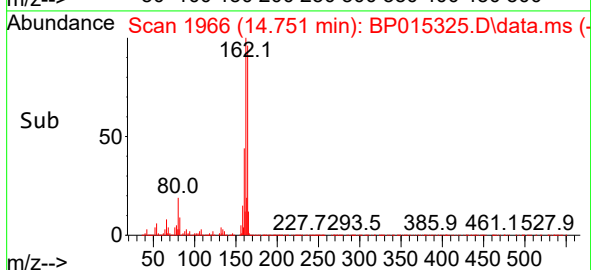
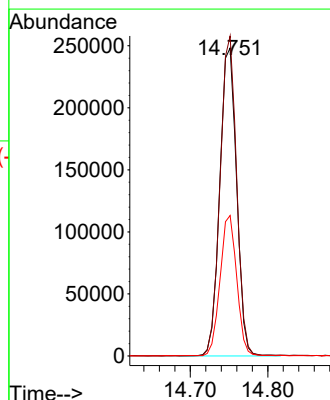
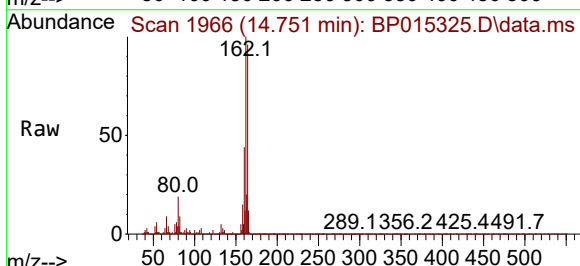
Tgt Ion:164 Resp: 374740

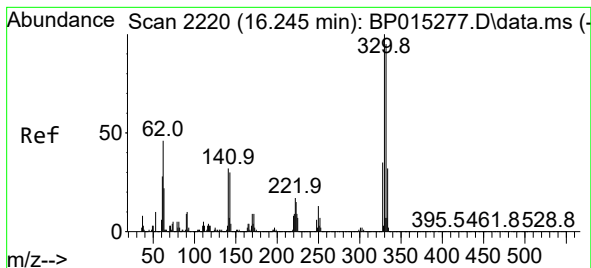
Ion Ratio Lower Upper

164 100

162 103.9 79.4 119.2

160 45.6 35.6 53.4





#42

2,4,6-Tribromophenol

Concen: 92.533 ng

RT: 16.239 min Scan# 21

Delta R.T. -0.006 min

Lab File: BP015325.D

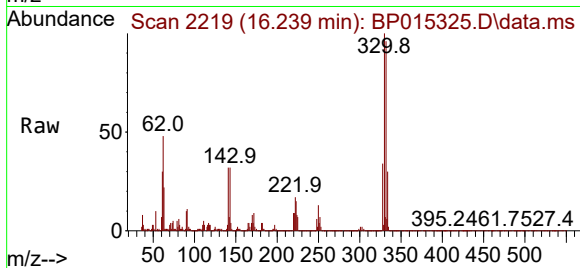
Acq: 27 May 2023 00:09

Instrument :

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ClientSampleId :

OR-03-052423



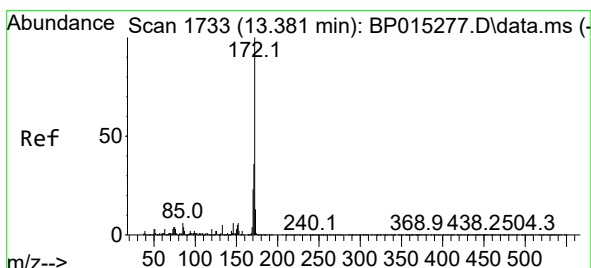
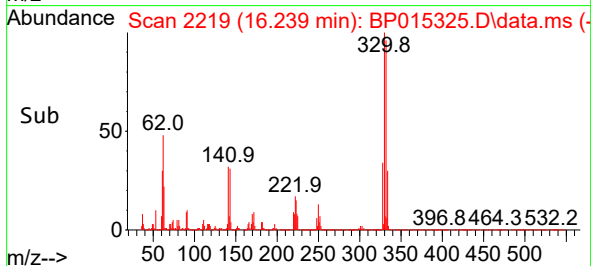
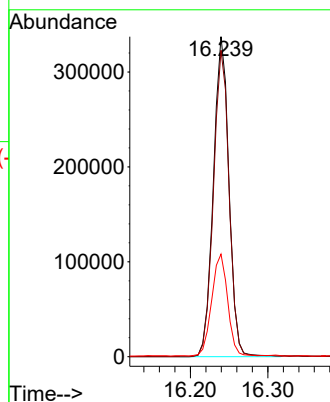
Tgt Ion:330 Resp: 471220

Ion Ratio Lower Upper

330 100

332 96.1 76.3 114.5

141 32.5 27.8 41.8



#45

2-Fluorobiphenyl

Concen: 51.407 ng

RT: 13.375 min Scan# 1732

Delta R.T. -0.006 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

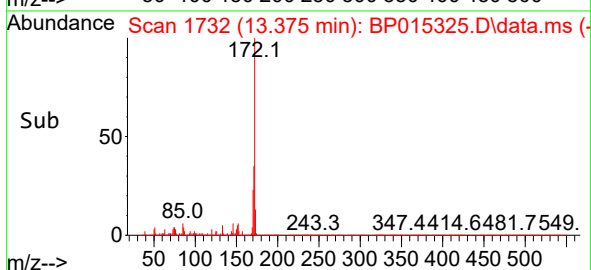
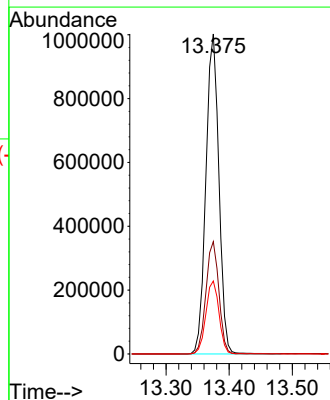
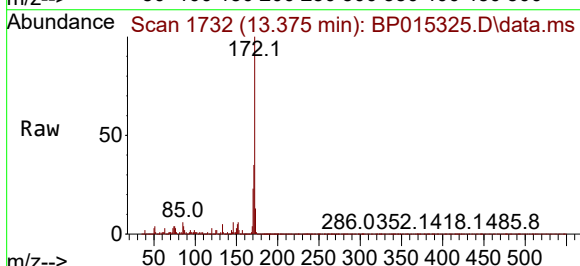
Tgt Ion:172 Resp: 1434902

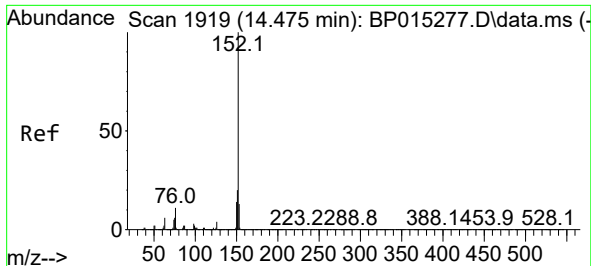
Ion Ratio Lower Upper

172 100

171 35.1 28.4 42.6

170 22.8 18.7 28.1

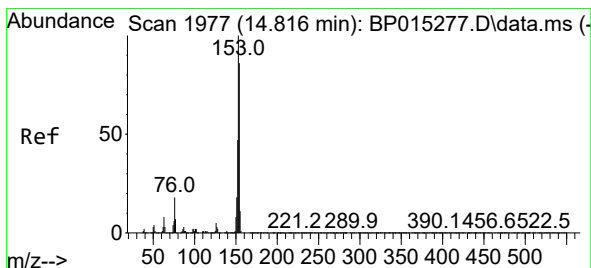
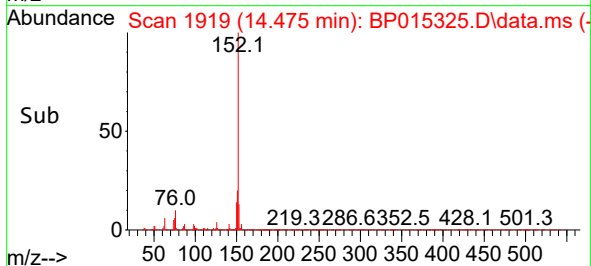
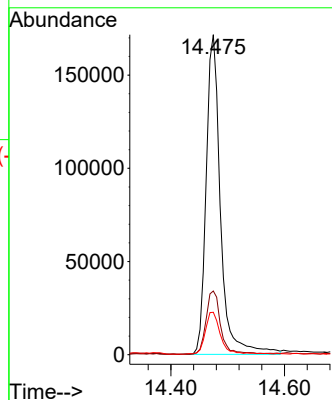
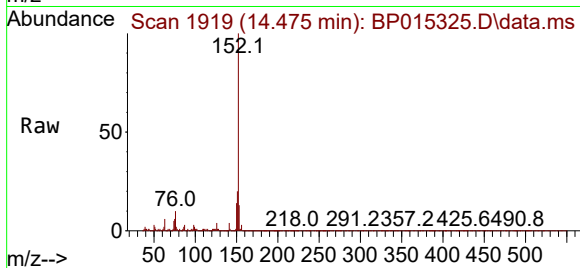




#49
Acenaphthylene
Concen: 8.359 ng
RT: 14.475 min Scan# 1919
Delta R.T. -0.000 min
Lab File: BP015325.D
Acq: 27 May 2023 00:09

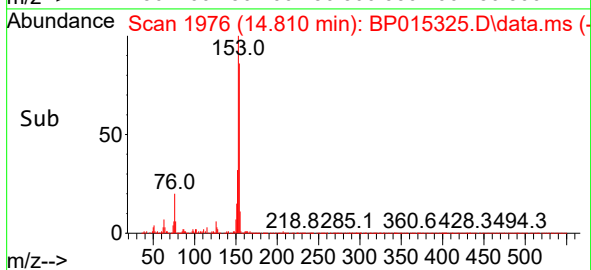
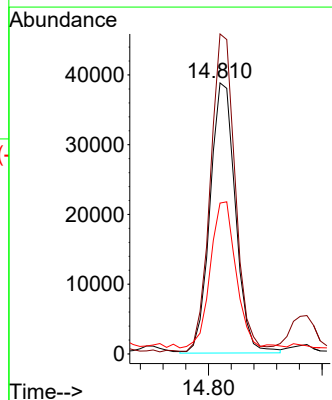
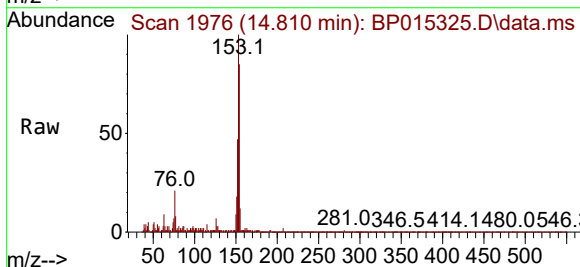
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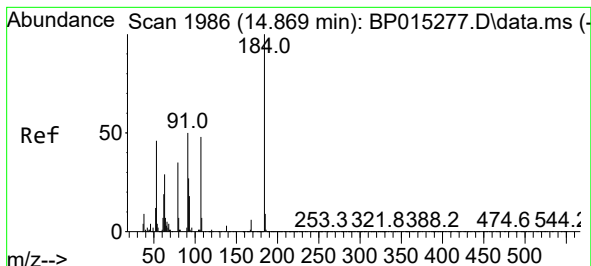
Tgt Ion:152 Resp: 299587
Ion Ratio Lower Upper
152 100
151 19.9 16.0 24.0
153 13.3 10.6 16.0



#52
Acenaphthene
Concen: 2.819 ng
RT: 14.810 min Scan# 1976
Delta R.T. -0.006 min
Lab File: BP015325.D
Acq: 27 May 2023 00:09

Tgt Ion:154 Resp: 60165
Ion Ratio Lower Upper
154 100
153 118.1 92.8 139.2
152 55.6 44.0 66.0

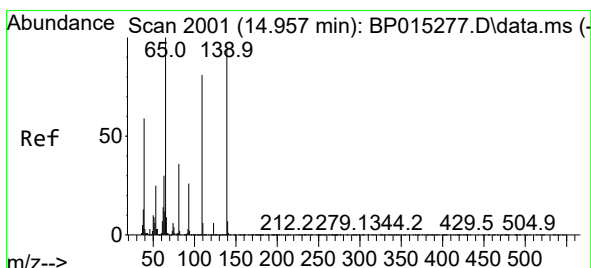
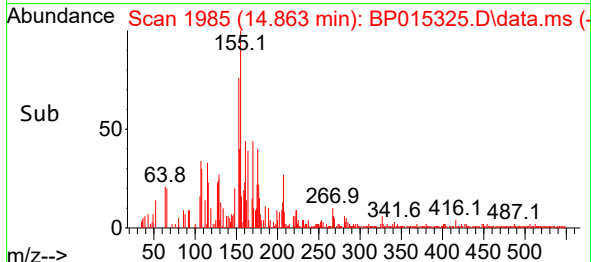
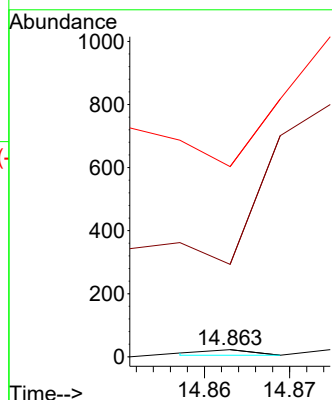
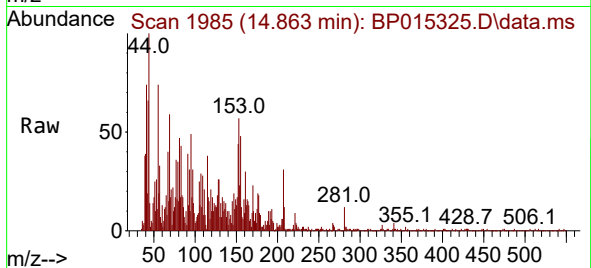




#54
2,4-Dinitrophenol
Concen: 5.189 ng
RT: 14.863 min Scan# 1986
Delta R.T. -0.006 min
Lab File: BP015325.D
Acq: 27 May 2023 00:09

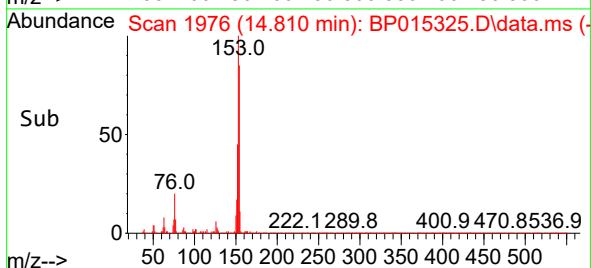
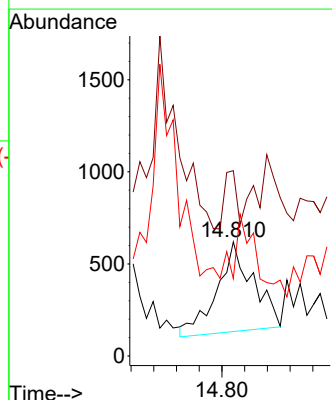
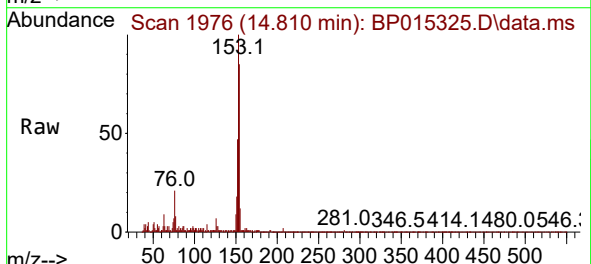
Instrument :
BNA_P
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OR-03-052423

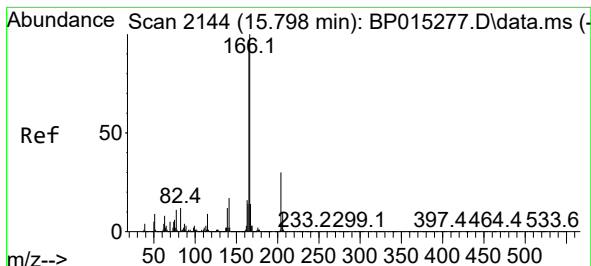
Tgt Ion:184 Resp: 6
Ion Ratio Lower Upper
184 100
63 1273.9 56.2 84.4#
154 2621.7 53.2 79.8#



#56
4-Nitrophenol
Concen: 3.614 ng
RT: 14.810 min Scan# 1976
Delta R.T. -0.147 min
Lab File: BP015325.D
Acq: 27 May 2023 00:09

Tgt Ion:139 Resp: 1073
Ion Ratio Lower Upper
139 100
109 162.3 66.5 106.5#
65 67.9 86.6 126.6#





#58

Fluorene

Concen: 5.175 ng

RT: 15.798 min Scan# 2144

Delta R.T. -0.000 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

Instrument :

BNA_P

ClientSampleId :

OR-03-052423

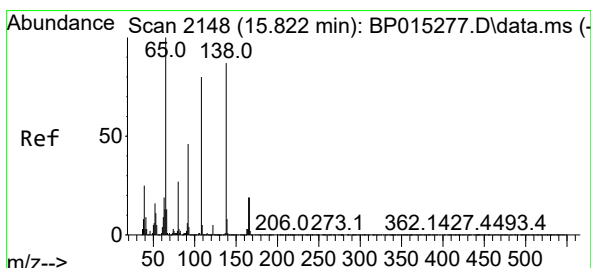
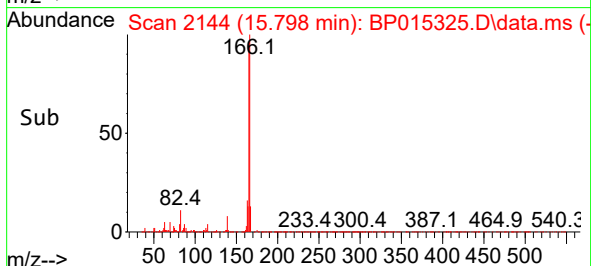
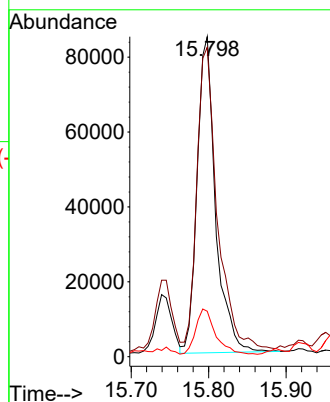
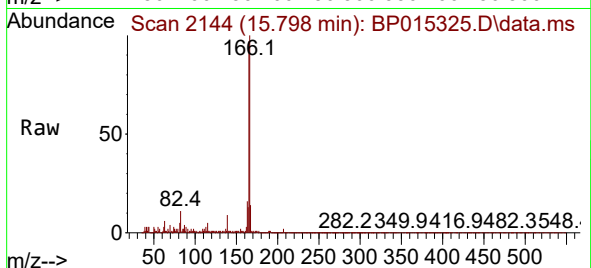
Tgt Ion:166 Resp: 139561

Ion Ratio Lower Upper

166 100

165 96.7 77.5 116.3

167 14.2 10.9 16.3



#62

4-Nitroaniline

Concen: 2.360 ng

RT: 15.951 min Scan# 2170

Delta R.T. 0.129 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

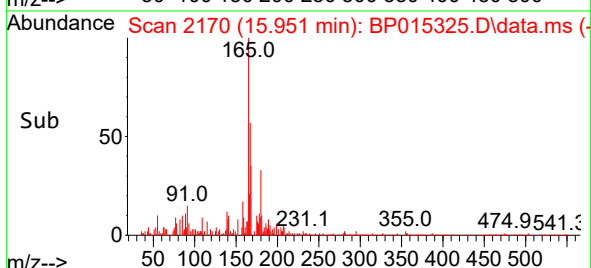
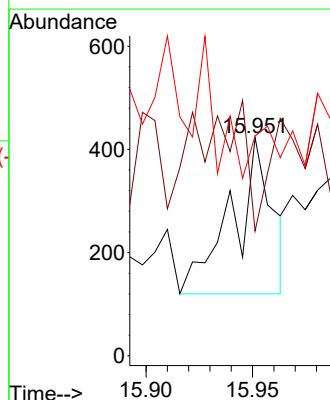
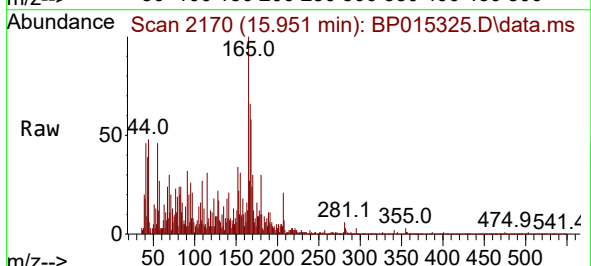
Tgt Ion:138 Resp: 395

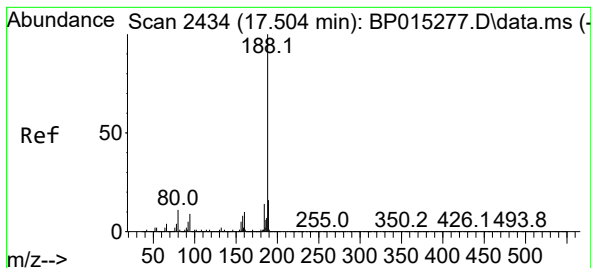
Ion Ratio Lower Upper

138 100

92 57.2 33.1 73.1

108 100.7 71.0 111.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.504 min Scan# 2434

Delta R.T. -0.000 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

Instrument :

BNA_P

ClientSampleId :

OR-03-052423

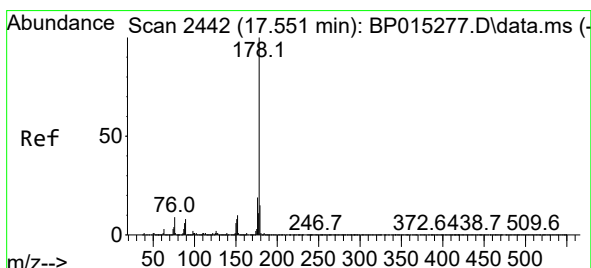
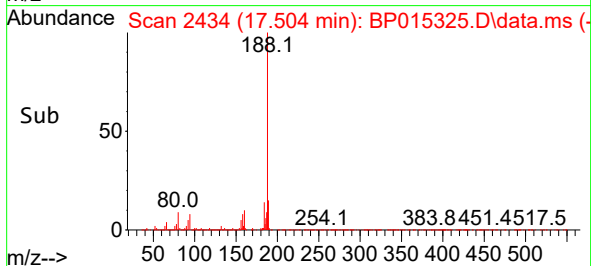
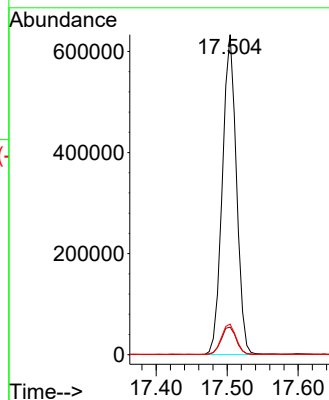
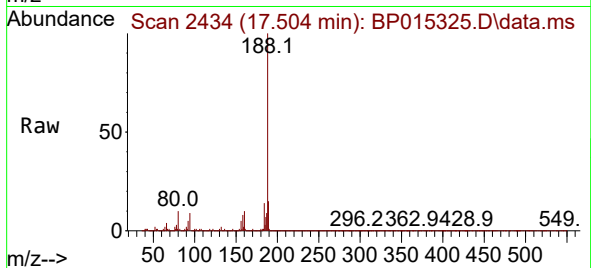
Tgt Ion:188 Resp: 867129

Ion Ratio Lower Upper

188 100

94 8.6 7.4 11.0

80 9.6 8.6 13.0



#71

Phenanthrene

Concen: 26.770 ng

RT: 17.545 min Scan# 2441

Delta R.T. -0.006 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

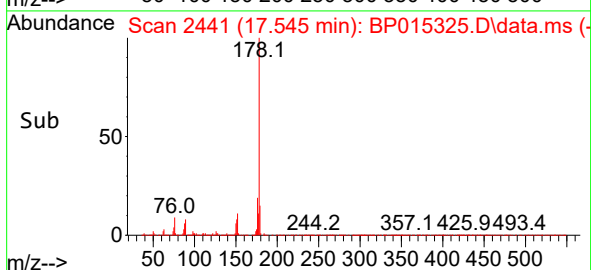
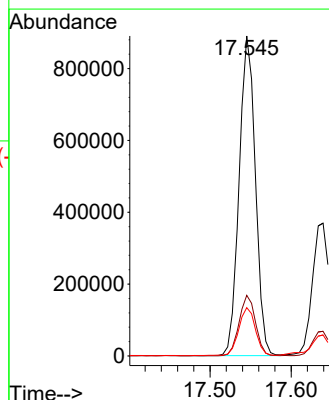
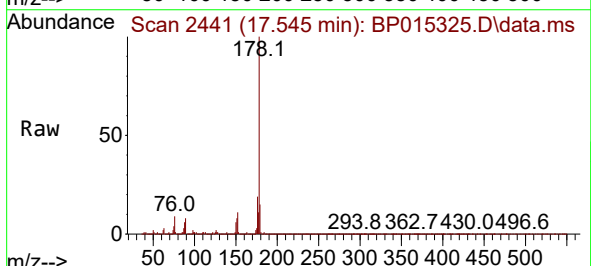
Tgt Ion:178 Resp: 1237203

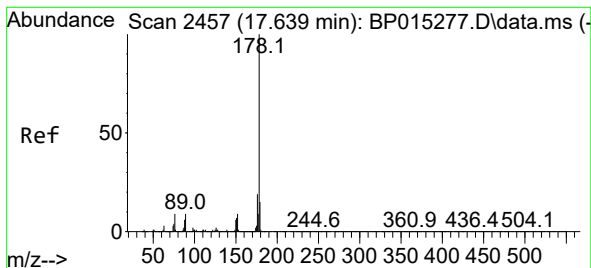
Ion Ratio Lower Upper

178 100

176 19.0 15.3 22.9

179 15.1 12.3 18.5





#72

Anthracene

Concen: 11.622 ng

RT: 17.639 min Scan# 2457

Delta R.T. -0.000 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

Instrument :

BNA_P

ClientSampleId :

OR-03-052423

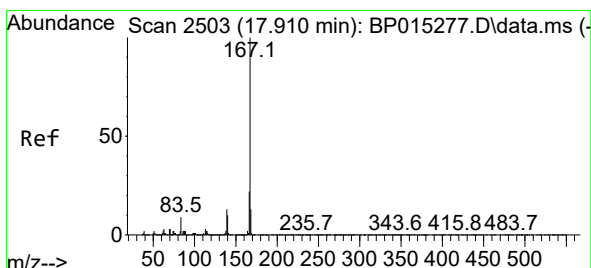
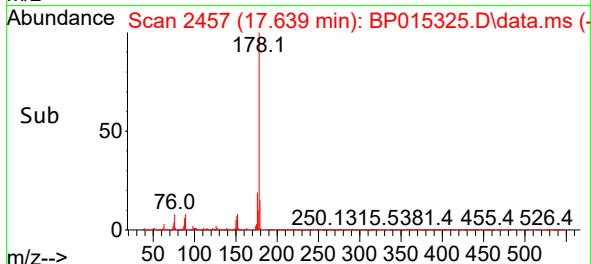
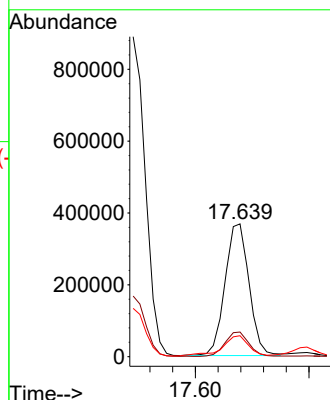
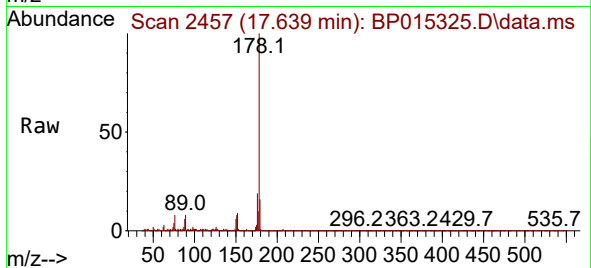
Tgt Ion:178 Resp: 537945

Ion Ratio Lower Upper

178 100

176 18.6 15.1 22.7

179 15.7 12.2 18.4



#73

Carbazole

Concen: 3.416 ng

RT: 17.904 min Scan# 2502

Delta R.T. -0.006 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

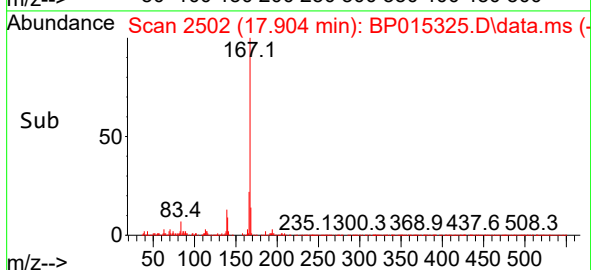
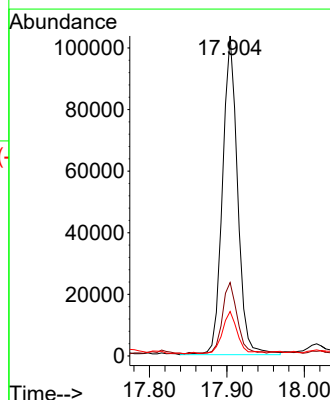
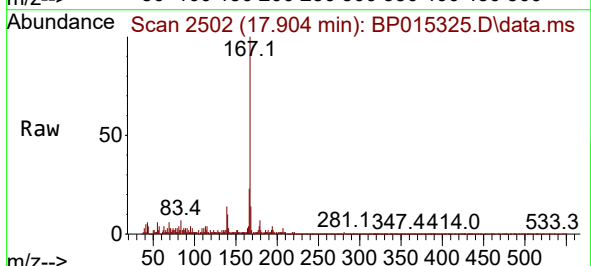
Tgt Ion:167 Resp: 139989

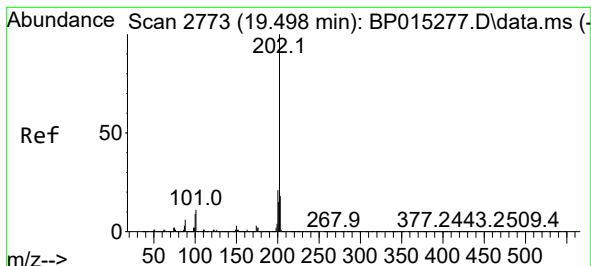
Ion Ratio Lower Upper

167 100

166 23.0 17.4 26.0

139 13.9 10.2 15.2





#75

Fluoranthene

Concen: 30.597 ng

RT: 19.498 min Scan# 21

Delta R.T. -0.000 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

Instrument :

BNA_P

ClientSampleId :

OR-03-052423

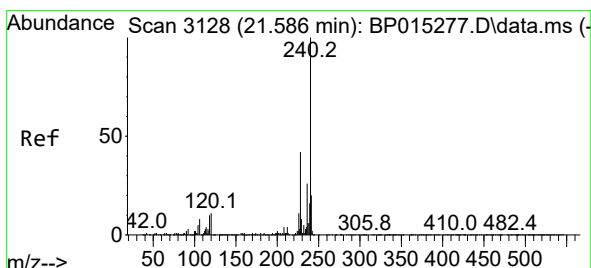
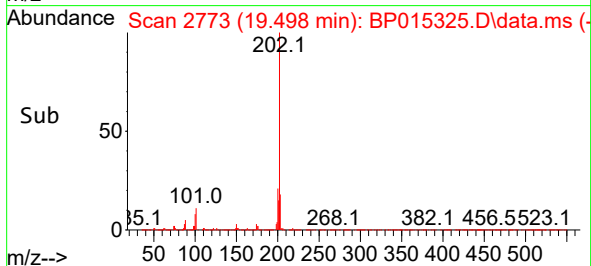
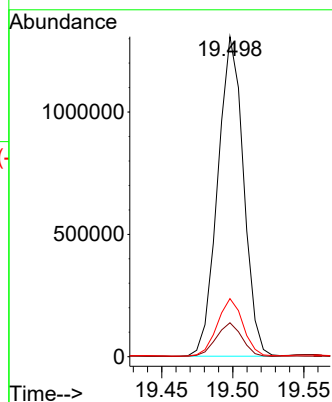
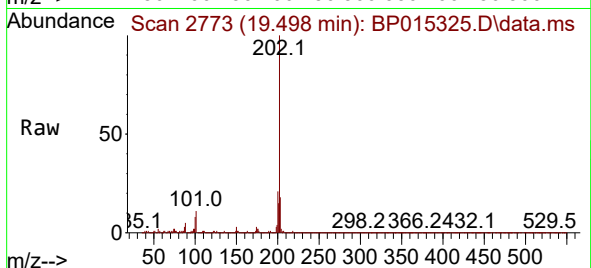
Tgt Ion:202 Resp: 1651916

Ion Ratio Lower Upper

202 100

101 10.6 0.0 31.4

203 18.1 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.580 min Scan# 3127

Delta R.T. -0.006 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

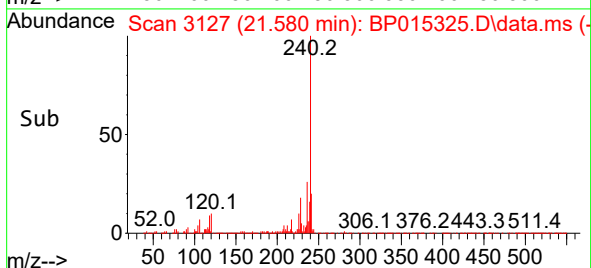
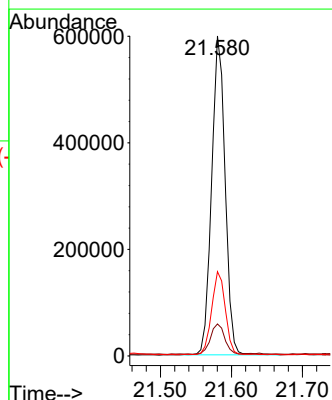
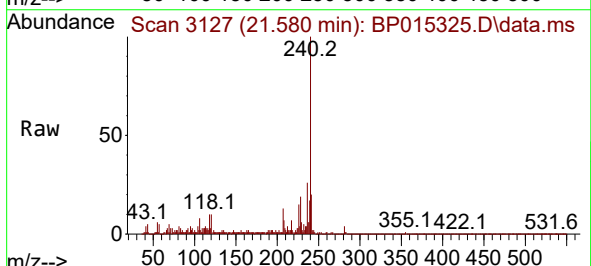
Tgt Ion:240 Resp: 793159

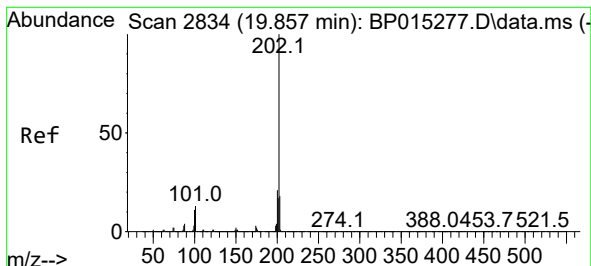
Ion Ratio Lower Upper

240 100

120 10.0 8.8 13.2

236 26.3 20.5 30.7





#78

Pyrene

Concen: 28.433 ng

RT: 19.851 min Scan# 2833

Delta R.T. -0.006 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

Instrument :

BNA_P

ClientSampleId :

OR-03-052423

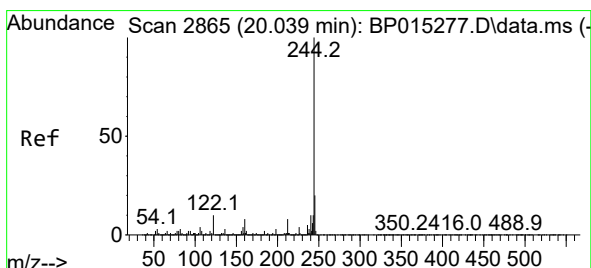
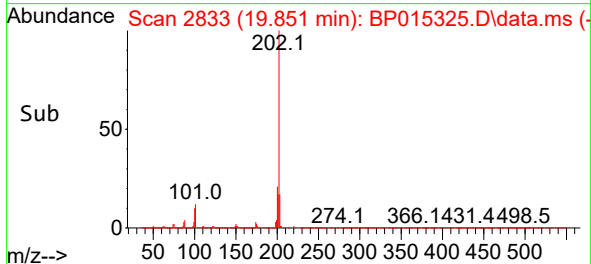
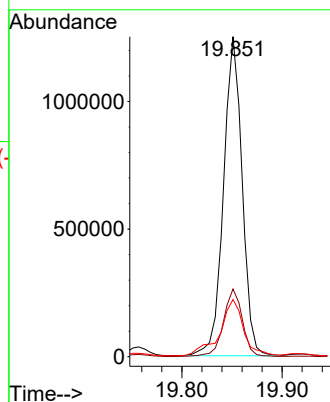
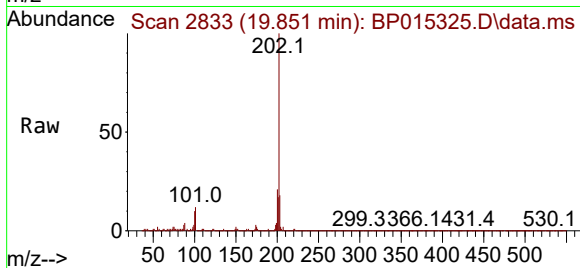
Tgt Ion:202 Resp: 1613596

Ion Ratio Lower Upper

202 100

200 21.2 17.1 25.7

203 17.8 14.2 21.2



#79

Terphenyl-d14

Concen: 54.453 ng

RT: 20.039 min Scan# 2865

Delta R.T. -0.000 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

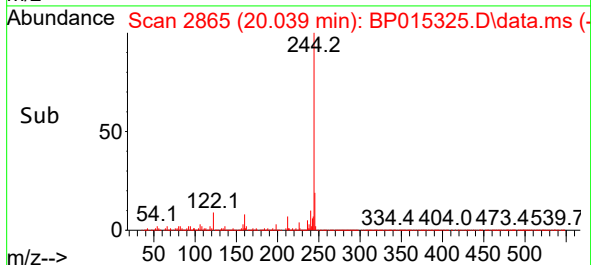
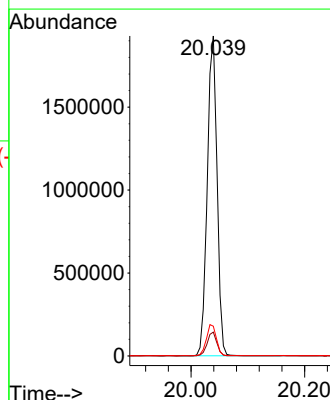
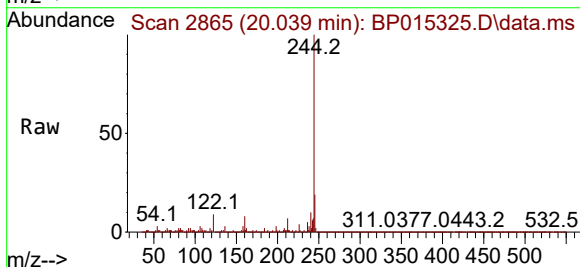
Tgt Ion:244 Resp: 2296149

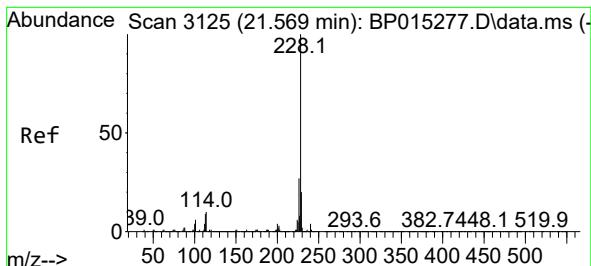
Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

122 9.3 8.2 12.4





#81

Benzo(a)anthracene

Concen: 12.561 ng

RT: 21.563 min Scan# 3125

Delta R.T. -0.006 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

Instrument :

BNA_P

ClientSampleId :

OR-03-052423

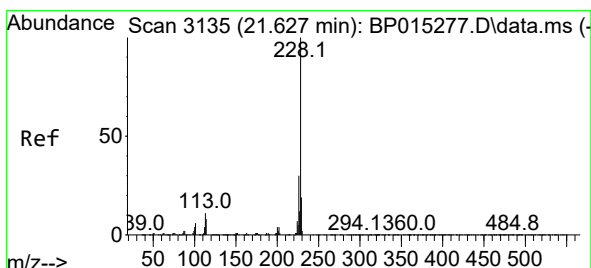
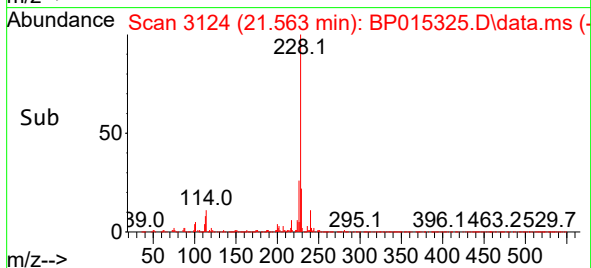
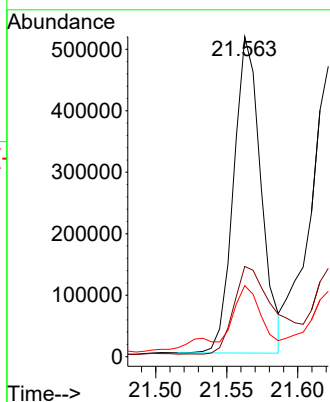
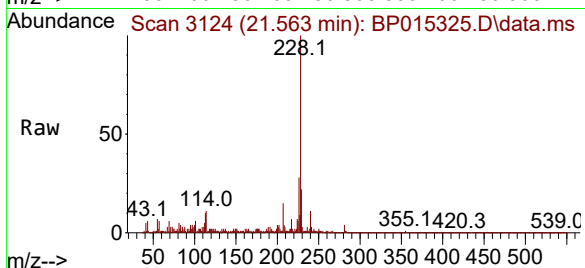
Tgt Ion:228 Resp: 692220

Ion Ratio Lower Upper

228 100

226 28.2 21.7 32.5

229 22.2 15.8 23.8



#83

Chrysene

Concen: 13.258 ng

RT: 21.621 min Scan# 3134

Delta R.T. -0.006 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

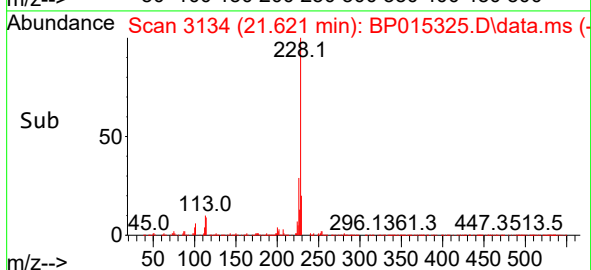
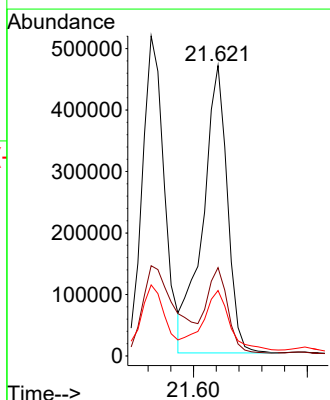
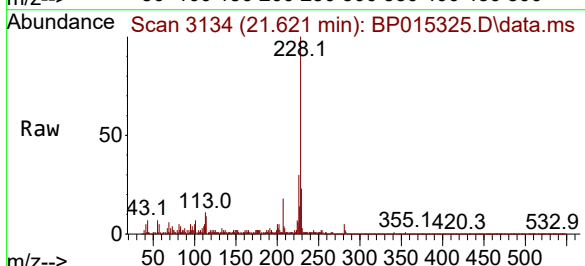
Tgt Ion:228 Resp: 700591

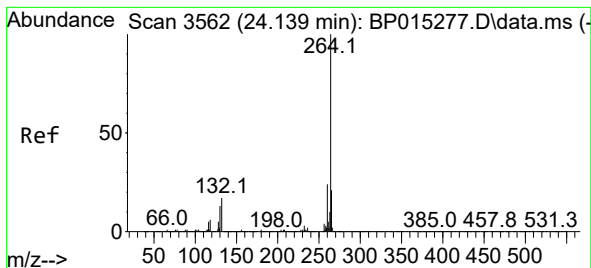
Ion Ratio Lower Upper

228 100

226 30.4 23.8 35.6

229 22.5 15.5 23.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.139 min Scan# 3

Delta R.T. -0.000 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

Instrument :

BNA_P

ClientSampleId :

OR-03-052423

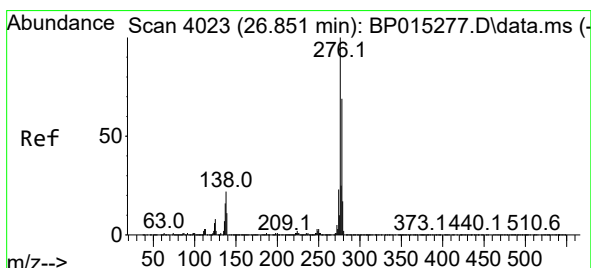
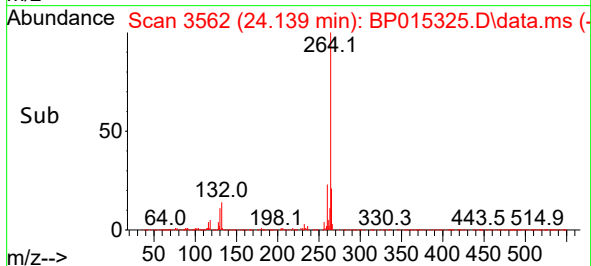
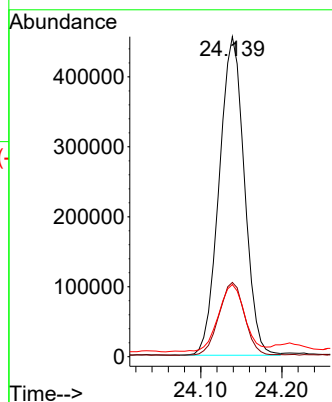
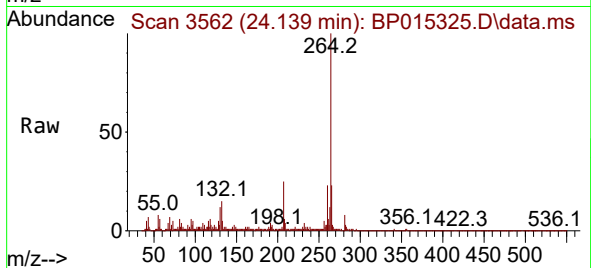
Tgt Ion:264 Resp: 981171

Ion Ratio Lower Upper

264 100

260 23.2 19.0 28.6

265 22.6 17.5 26.3



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.901 ng

RT: 26.833 min Scan# 4020

Delta R.T. -0.018 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

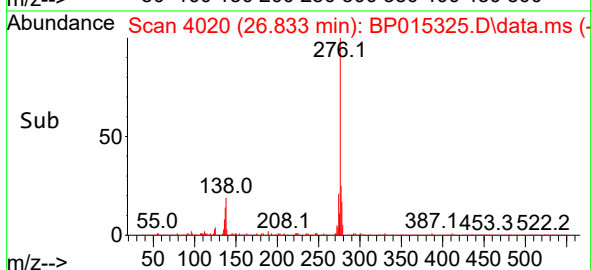
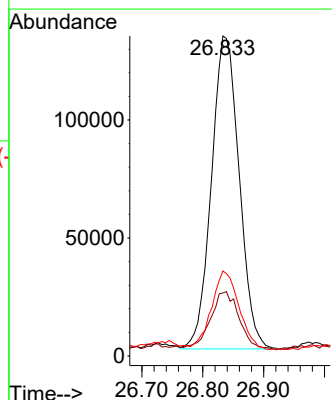
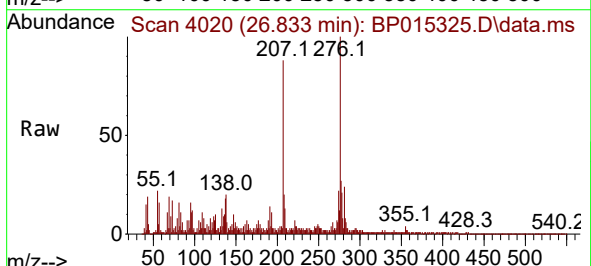
Tgt Ion:276 Resp: 419658

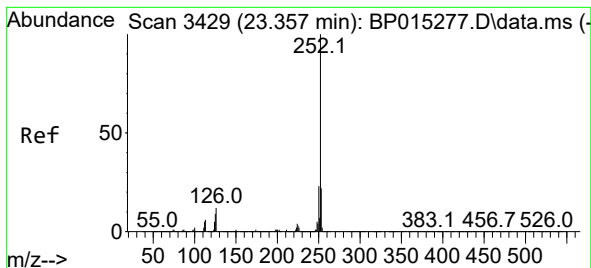
Ion Ratio Lower Upper

276 100

138 19.1 19.0 28.6

277 24.8 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 13.253 ng

RT: 23.351 min Scan# 3429

Delta R.T. -0.006 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

Instrument :

BNA_P

ClientSampleId :

OR-03-052423

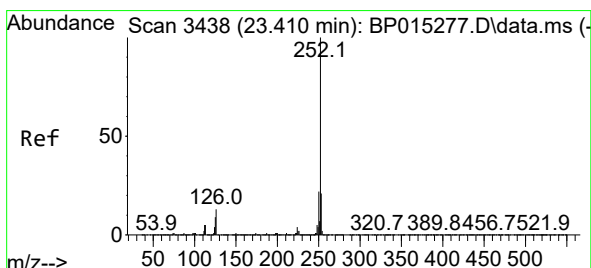
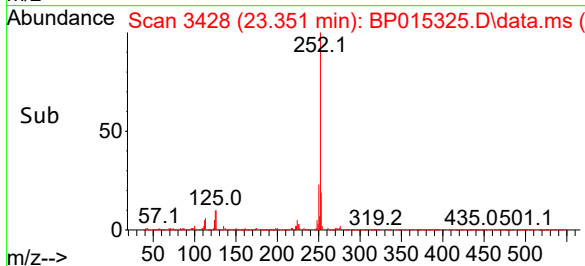
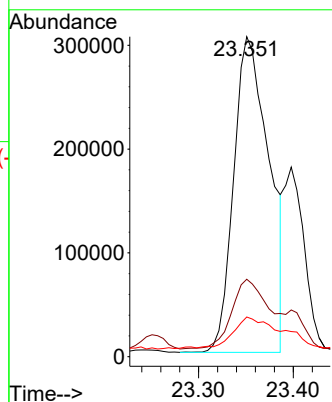
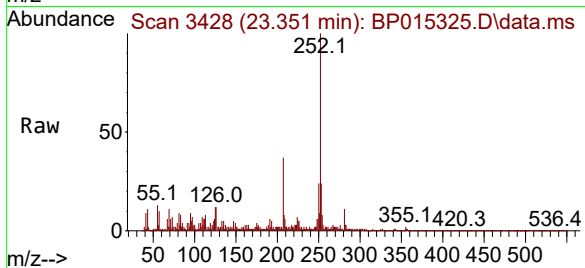
Tgt Ion:252 Resp: 790635

Ion Ratio Lower Upper

252 100

253 24.2 17.4 26.2

125 12.4 7.2 10.8#



#89

Benzo(k)fluoranthene

Concen: 13.162 ng

RT: 23.351 min Scan# 3428

Delta R.T. -0.059 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

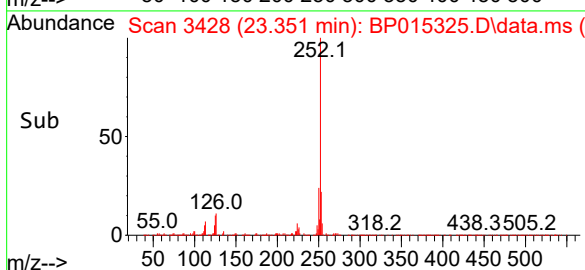
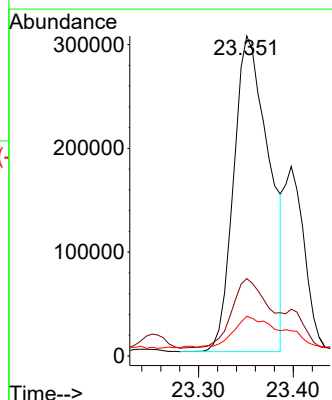
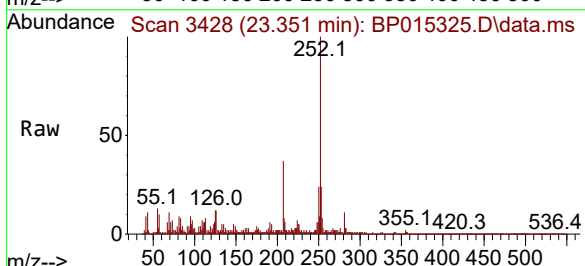
Tgt Ion:252 Resp: 790635

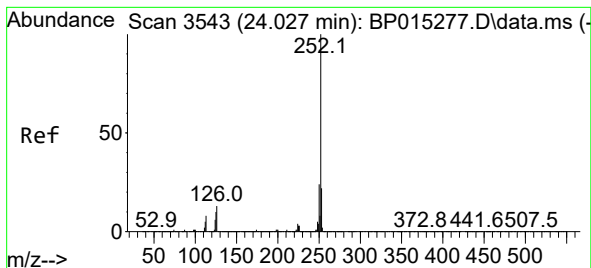
Ion Ratio Lower Upper

252 100

253 24.2 17.0 25.4

125 12.4 7.4 11.0#





#90

Benzo(a)pyrene

Concen: 10.801 ng

RT: 24.021 min Scan# 3

Delta R.T. -0.006 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

Instrument :

BNA_P

ClientSampleId :

OR-03-052423

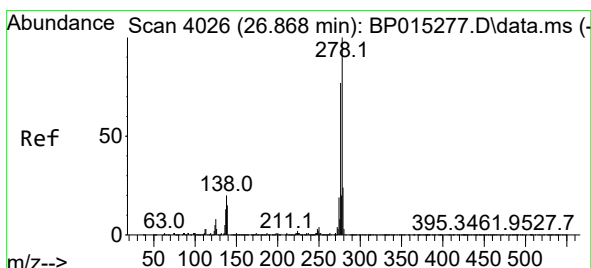
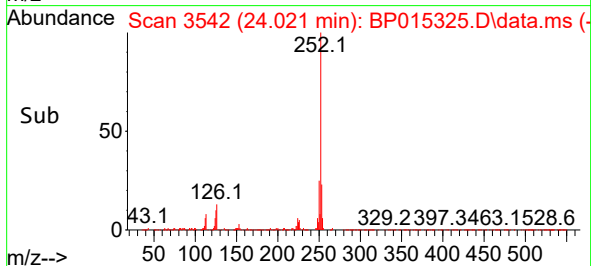
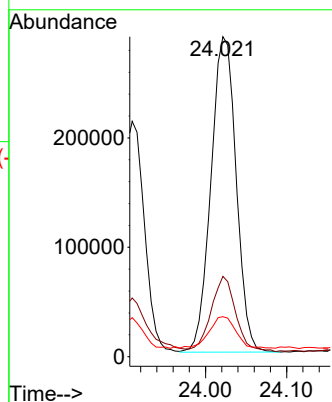
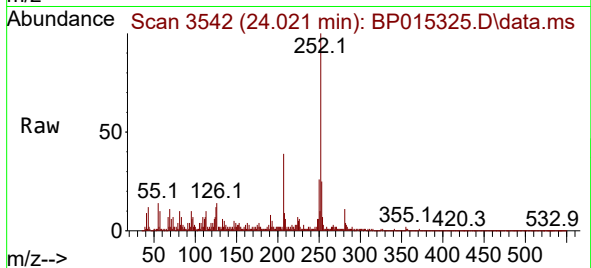
Tgt Ion:252 Resp: 622105

Ion Ratio Lower Upper

252 100

253 25.1 17.4 26.2

125 12.5 8.4 12.6



#91

Dibenzo(a,h)anthracene

Concen: 2.079 ng

RT: 26.845 min Scan# 4022

Delta R.T. -0.024 min

Lab File: BP015325.D

Acq: 27 May 2023 00:09

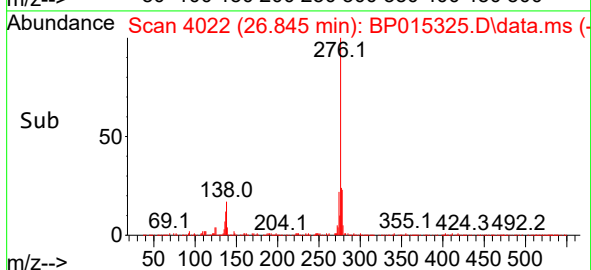
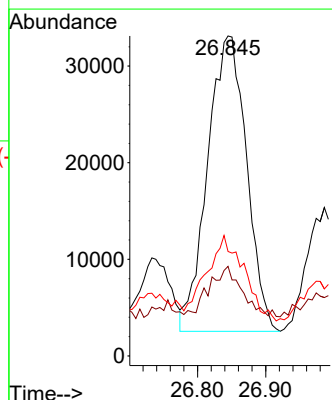
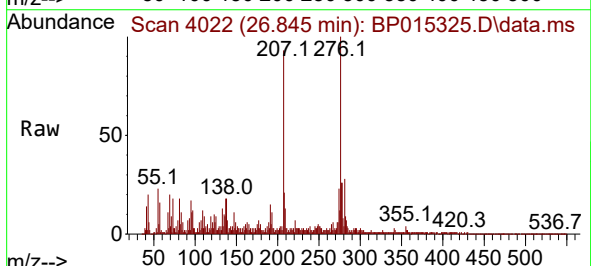
Tgt Ion:278 Resp: 121408

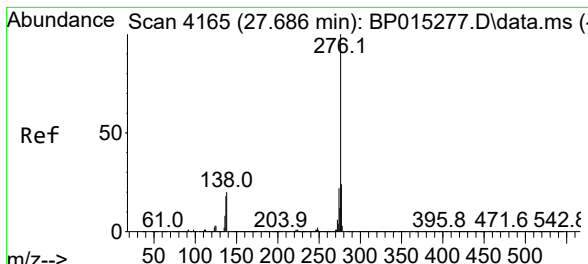
Ion Ratio Lower Upper

278 100

139 28.0 12.3 18.5#

279 32.6 19.3 28.9#





#92
 Benzo(g,h,i)perylene
 Concen: 7.738 ng
 RT: 27.680 min Scan# 4164
 Delta R.T. -0.006 min
 Lab File: BP015325.D
 Acq: 27 May 2023 00:09

Instrument :
 BNA_P
 ClientSampleId :
 OR-03-052423

Tgt Ion:276 Resp: 459186

Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.0	28.6
138	20.7	16.2	24.2

