

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
 Data File : BP019917.D
 Acq On : 28 Feb 2024 15:29
 Operator : MA/JU
 Sample : P1602-04
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 WC-2

Quant Time: Feb 28 16:10:34 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 27 02:05:05 2024
 Response via : Initial Calibration

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

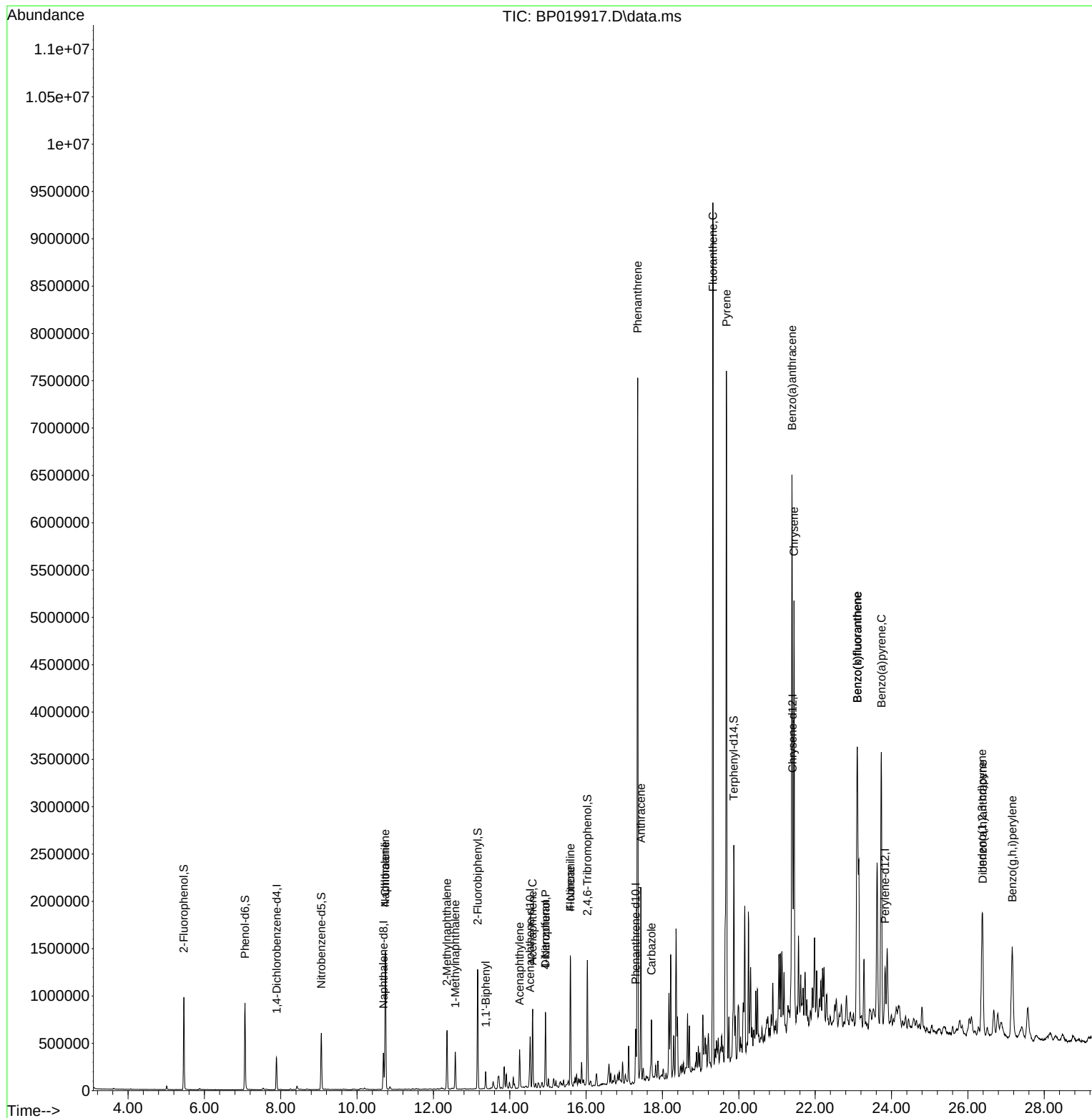
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.893	152	92796	20.000	ng	0.00
21) Naphthalene-d8	10.693	136	320435	20.000	ng	-0.01
39) Acenaphthene-d10	14.534	164	182368	20.000	ng	-0.01
64) Phenanthrene-d10	17.298	188	387455	20.000	ng	0.00
76) Chrysene-d12	21.410	240	476407	20.000	ng	0.00
86) Perylene-d12	23.833	264	547545	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.464	112	396556	70.143	ng	0.00
7) Phenol-d6	7.064	99	509639	60.546	ng	-0.01
23) Nitrobenzene-d5	9.063	82	354148	44.619	ng	-0.01
42) 2,4,6-Tribromophenol	16.034	330	226362	72.390	ng	-0.01
45) 2-Fluorobiphenyl	13.157	172	676267	50.102	ng	-0.01
79) Terphenyl-d14	19.869	244	1121277	37.096	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.740	128	1185333	69.088	ng	99
33) 4-Chloroaniline	10.740	127	156924	20.132	ng	# 31
37) 2-Methylnaphthalene	12.357	142	286324	21.499	ng	98
38) 1-Methylnaphthalene	12.575	142	180819	14.348	ng	99
46) 1,1'-Biphenyl	13.369	154	92916	7.116	ng	98
49) Acenaphthylene	14.257	152	303921	18.509	ng	99
52) Acenaphthene	14.598	154	300423	30.471	ng	99
55) Dibenzofuran	14.934	168	481489	28.615	ng	99
56) 4-Nitrophenol	14.940	139	186202	75.050	ng	# 1
58) Fluorene	15.587	166	642301	47.067	ng	99
62) 4-Nitroaniline	15.587	138	7628	2.309	ng	# 11
71) Phenanthrene	17.351	178	4762972	230.305	ng	100
72) Anthracene	17.434	178	1285222	60.877	ng	99
73) Carbazole	17.710	167	402379	21.520	ng	100
75) Fluoranthene	19.322	202	5819471	216.823	ng	99
78) Pyrene	19.675	202	4959551	151.520	ng	99
81) Benzo(a)anthracene	21.392	228	3080994	91.108	ng	95
83) Chrysene	21.445	228	2527140	79.751	ng	96
87) Indeno(1,2,3-cd)pyrene	26.374	276	1591805	41.295	ng	# 97
88) Benzo(b)fluoranthene	23.104	252	3185280	94.886	ng	99
89) Benzo(k)fluoranthene	23.104	252	3185280	96.751	ng	98
90) Benzo(a)pyrene	23.733	252	2471660	77.044	ng	97
91) Dibenzo(a,h)anthracene	26.392	278	422596	13.041	ng	# 90
92) Benzo(g,h,i)perylene	27.162	276	1454101	46.483	ng	97

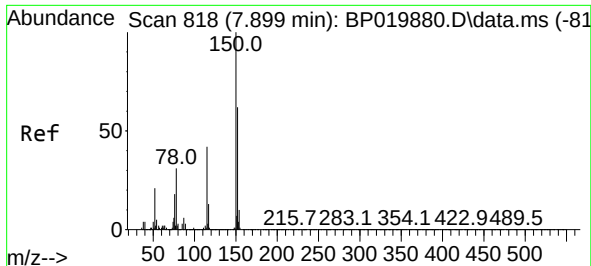
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
Data File : BP019917.D
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Operator : MA/JU
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Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 27 02:05:05 2024
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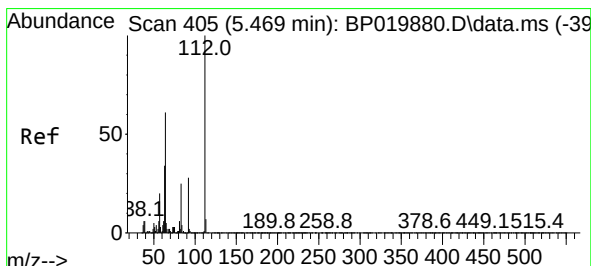
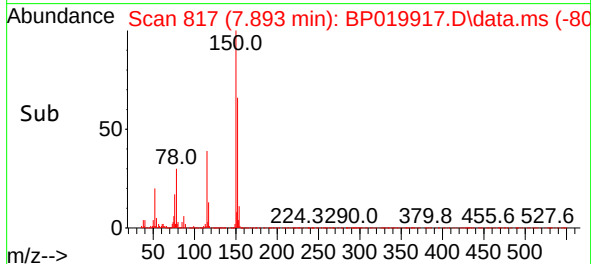
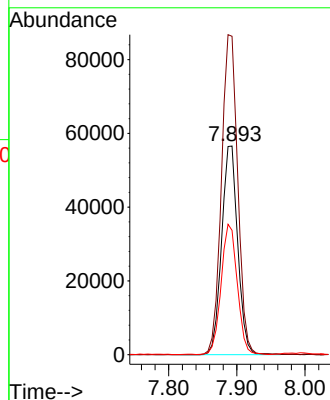
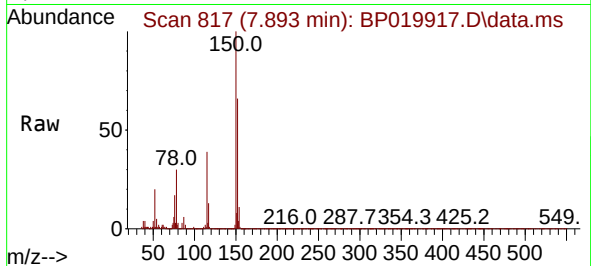




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.893 min Scan# 81
Delta R.T. -0.006 min
Lab File: BP019917.D
Acq: 28 Feb 2024 15:29

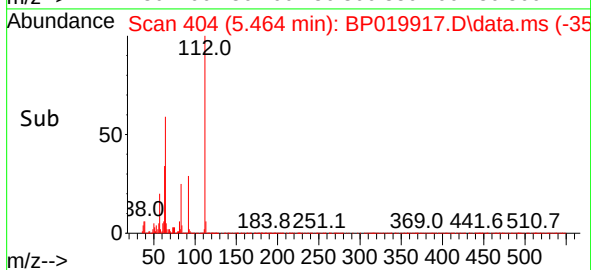
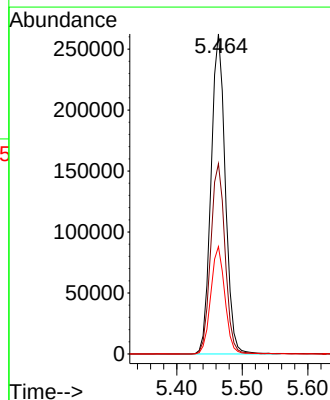
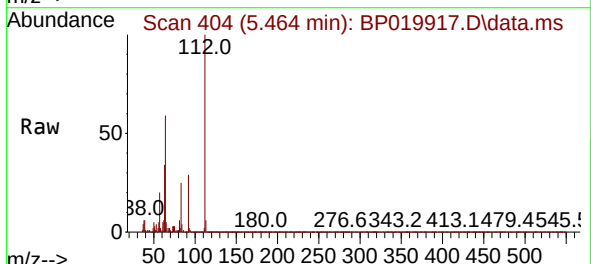
Instrument :
BNA_P
ClientSampleId :
WC-2

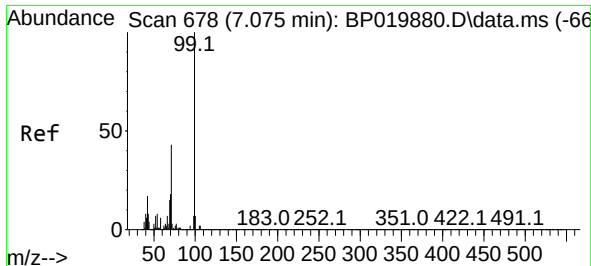
Tgt Ion:152 Resp: 92796
Ion Ratio Lower Upper
152 100
150 152.6 128.6 192.8
115 59.6 53.4 80.2



#5
2-Fluorophenol
Concen: 70.143 ng
RT: 5.464 min Scan# 404
Delta R.T. -0.006 min
Lab File: BP019917.D
Acq: 28 Feb 2024 15:29

Tgt Ion:112 Resp: 396556
Ion Ratio Lower Upper
112 100
64 59.4 49.0 73.6
63 33.5 27.6 41.4

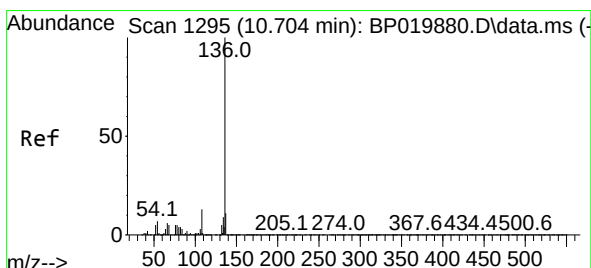
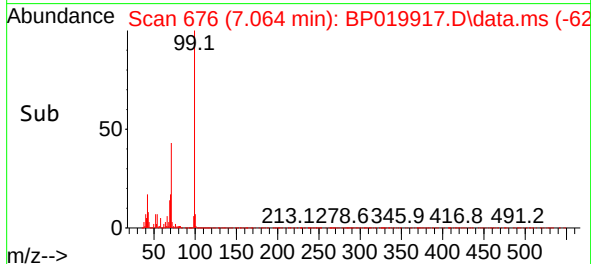
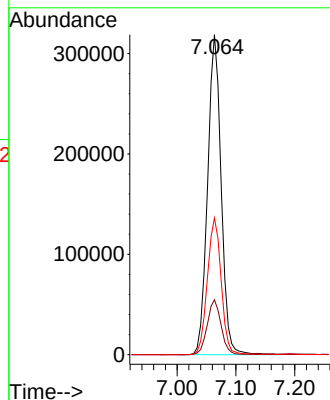
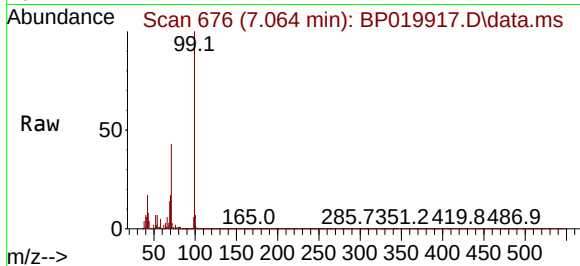




#7
Phenol-d6
Concen: 60.546 ng
RT: 7.064 min Scan# 61
Delta R.T. -0.012 min
Lab File: BP019917.D
Acq: 28 Feb 2024 15:29

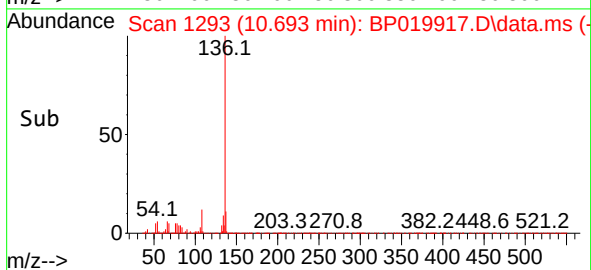
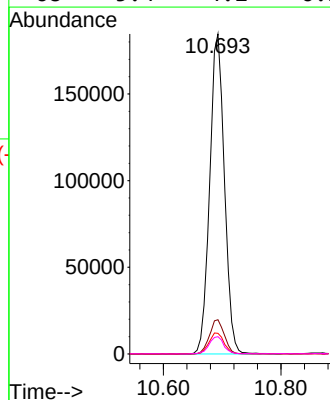
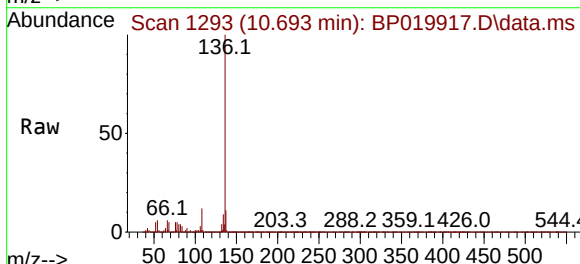
Instrument :
BNA_P
ClientSampleId :
WC-2

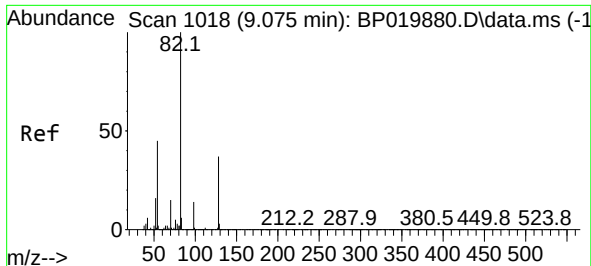
Tgt Ion: 99 Resp: 509639
Ion Ratio Lower Upper
99 100
42 17.1 13.8 20.8
71 42.7 34.5 51.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.693 min Scan# 1293
Delta R.T. -0.012 min
Lab File: BP019917.D
Acq: 28 Feb 2024 15:29

Tgt Ion:136 Resp: 320435
Ion Ratio Lower Upper
136 100
137 10.7 8.7 13.1
54 6.5 6.0 9.0
68 5.4 4.2 6.2

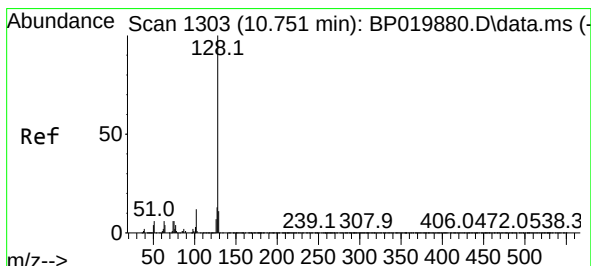
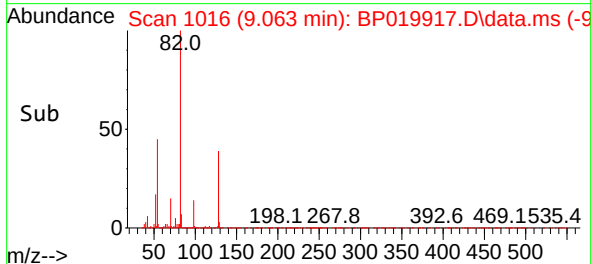
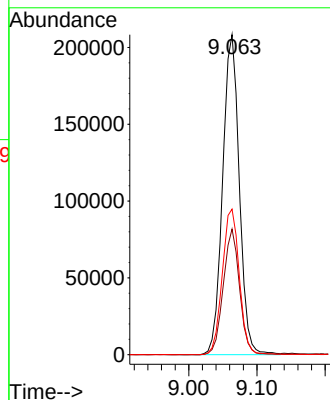
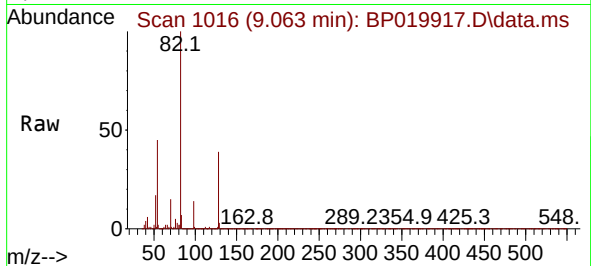




#23
Nitrobenzene-d5
Concen: 44.619 ng
RT: 9.063 min Scan# 1016
Delta R.T. -0.012 min
Lab File: BP019917.D
Acq: 28 Feb 2024 15:29

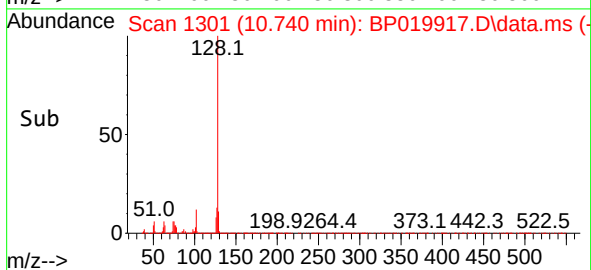
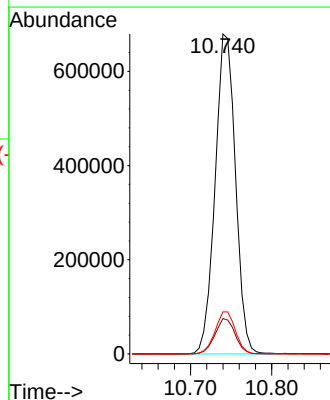
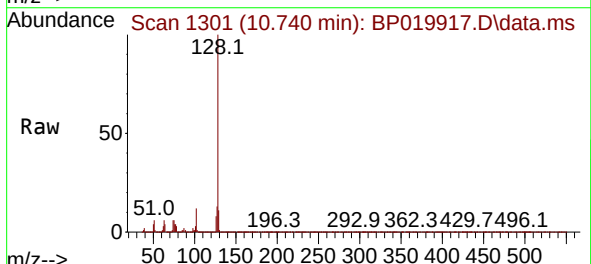
Instrument :
BNA_P
ClientSampleId :
WC-2

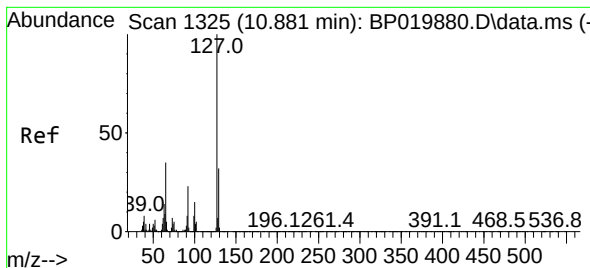
Tgt Ion: 82 Resp: 354148
Ion Ratio Lower Upper
82 100
128 39.3 29.6 44.4
54 45.5 36.3 54.5



#31
Naphthalene
Concen: 69.088 ng
RT: 10.740 min Scan# 1301
Delta R.T. -0.012 min
Lab File: BP019917.D
Acq: 28 Feb 2024 15:29

Tgt Ion: 128 Resp: 1185333
Ion Ratio Lower Upper
128 100
129 11.0 8.6 12.8
127 13.2 10.2 15.2





#33

4-Chloroaniline

Concen: 20.132 ng

RT: 10.740 min Scan# 1

Delta R.T. -0.141 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

Instrument :

BNA_P

ClientSampleId :

WC-2

Tgt Ion:127 Resp: 156924

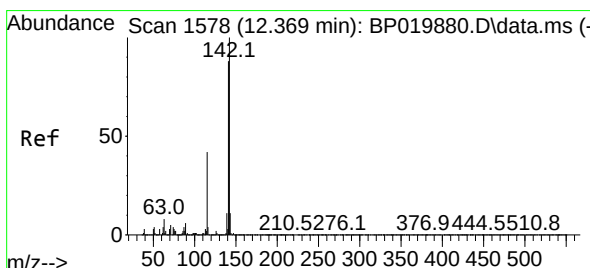
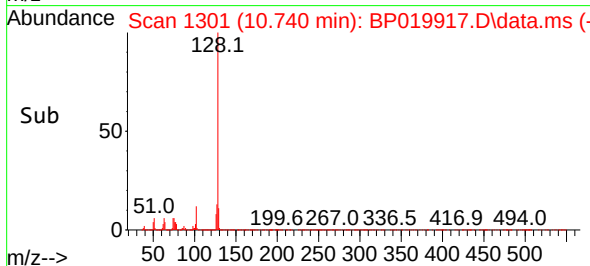
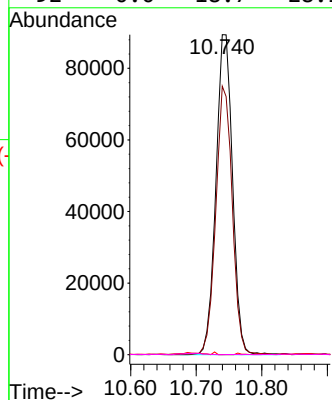
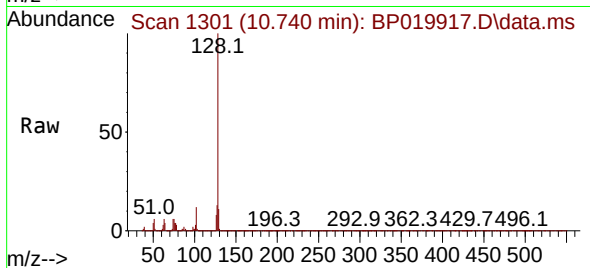
Ion Ratio Lower Upper

127 100

129 83.9 25.7 38.5#

65 0.0 28.2 42.4#

92 0.0 18.7 28.1#



#37

2-Methylnaphthalene

Concen: 21.499 ng

RT: 12.357 min Scan# 1576

Delta R.T. -0.012 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

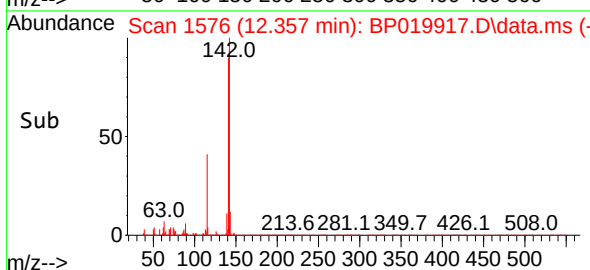
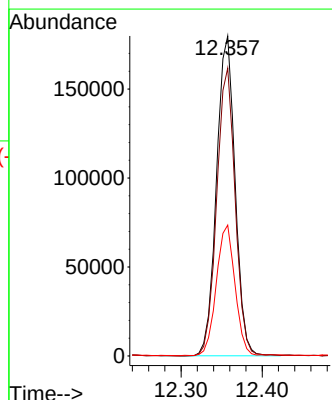
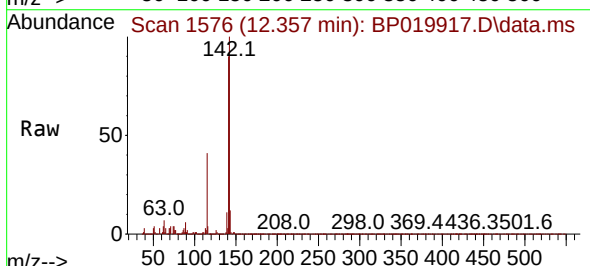
Tgt Ion:142 Resp: 286324

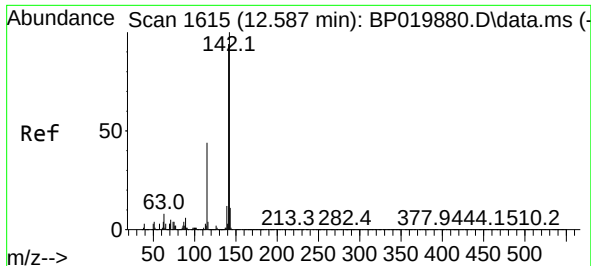
Ion Ratio Lower Upper

142 100

141 90.0 70.0 105.0

115 40.9 33.7 50.5

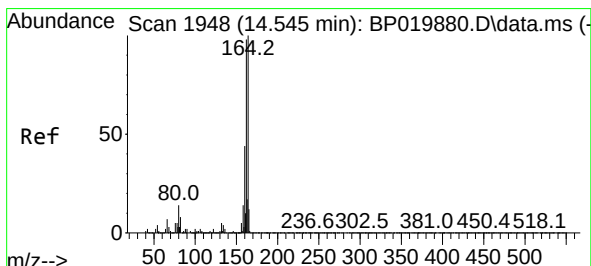
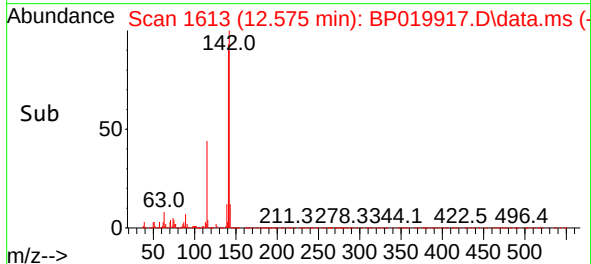
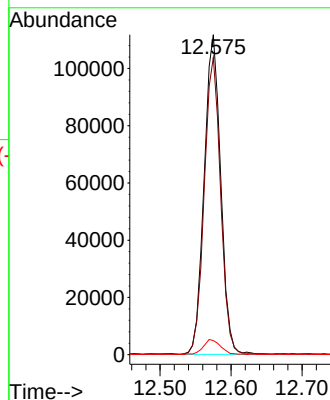
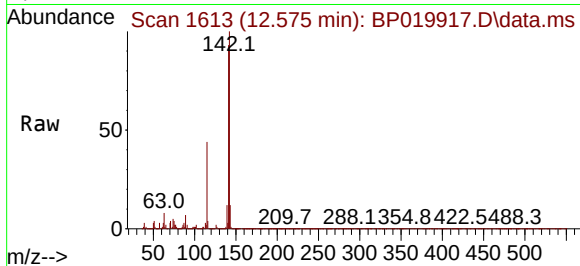




#38
1-Methylnaphthalene
Concen: 14.348 ng
RT: 12.575 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP019917.D
Acq: 28 Feb 2024 15:29

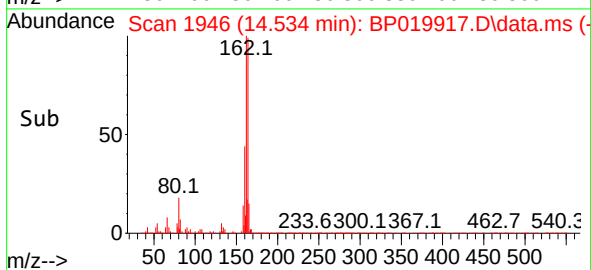
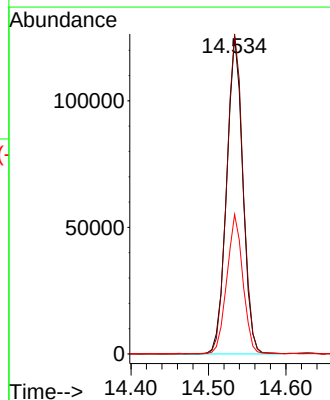
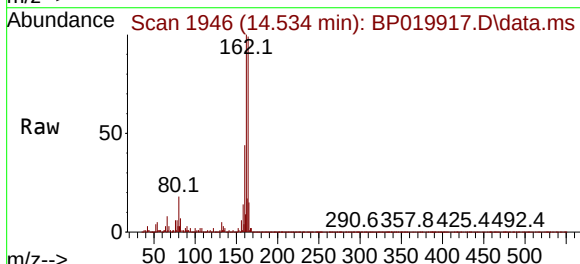
Instrument :
BNA_P
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WC-2

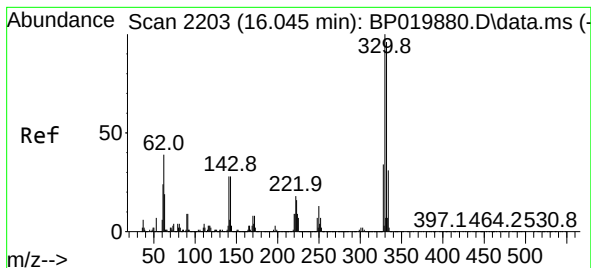
Tgt Ion:142 Resp: 180819
Ion Ratio Lower Upper
142 100
141 92.9 75.5 113.3
116 4.4 3.5 5.3



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.534 min Scan# 1946
Delta R.T. -0.012 min
Lab File: BP019917.D
Acq: 28 Feb 2024 15:29

Tgt Ion:164 Resp: 182368
Ion Ratio Lower Upper
164 100
162 100.7 78.1 117.1
160 43.9 35.3 52.9





#42

2,4,6-Tribromophenol

Concen: 72.390 ng

RT: 16.034 min Scan# 21

Delta R.T. -0.012 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

Instrument :

BNA_P

ClientSampleId :

WC-2

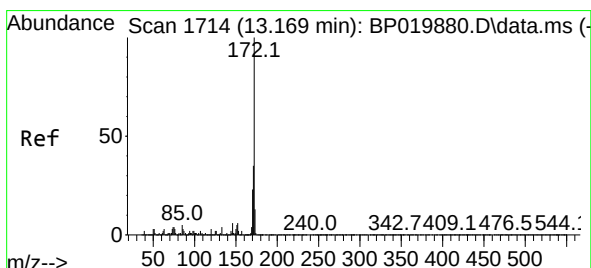
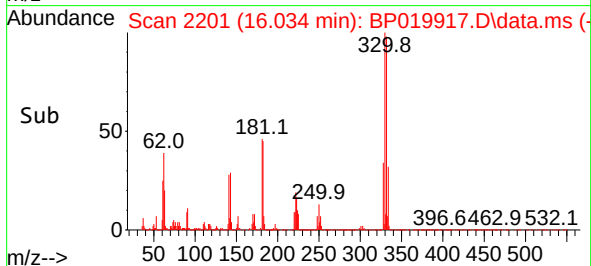
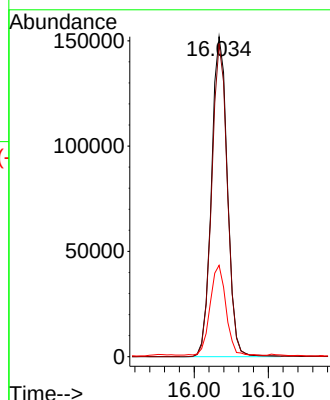
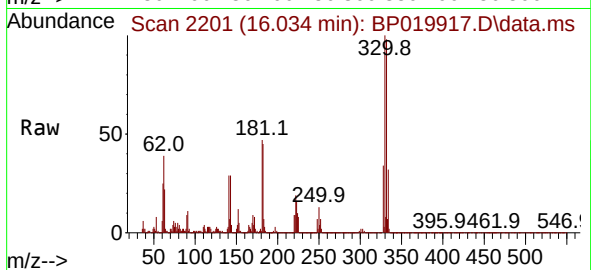
Tgt Ion:330 Resp: 226362

Ion Ratio Lower Upper

330 100

332 96.1 77.4 116.2

141 28.3 24.6 37.0



#45

2-Fluorobiphenyl

Concen: 50.102 ng

RT: 13.157 min Scan# 1712

Delta R.T. -0.012 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

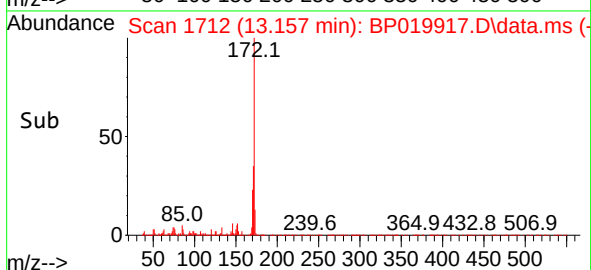
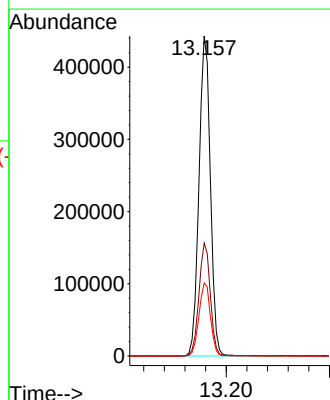
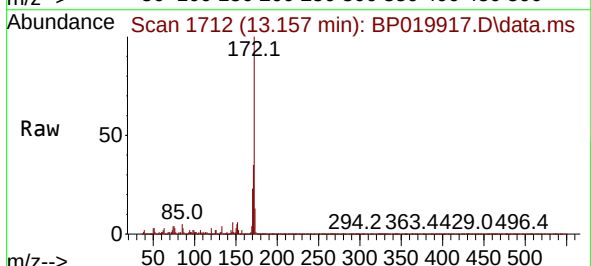
Tgt Ion:172 Resp: 676267

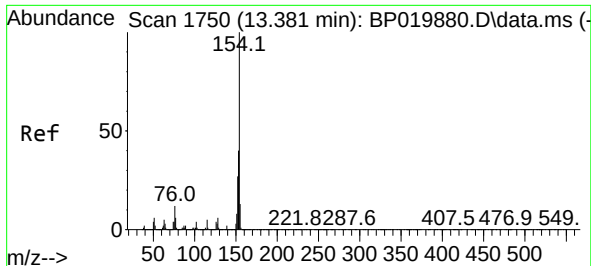
Ion Ratio Lower Upper

172 100

171 35.3 27.8 41.6

170 22.8 18.4 27.6

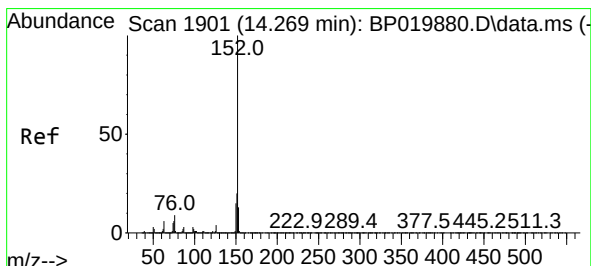
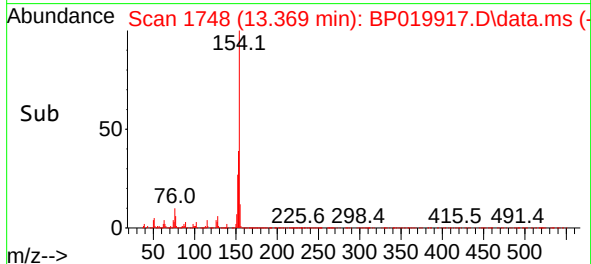
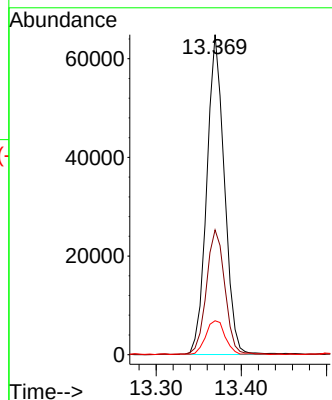
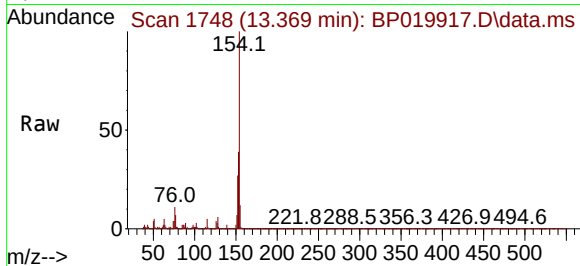




#46
1,1'-Biphenyl
Concen: 7.116 ng
RT: 13.369 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP019917.D
Acq: 28 Feb 2024 15:29

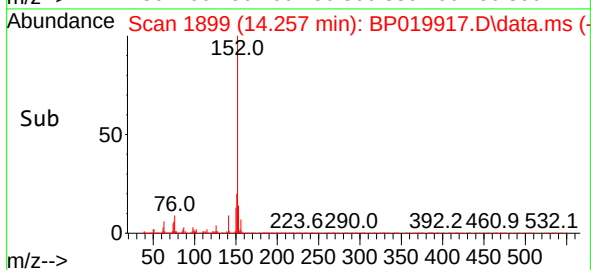
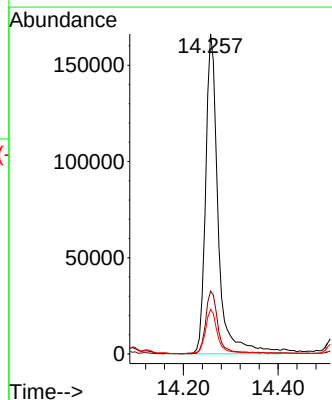
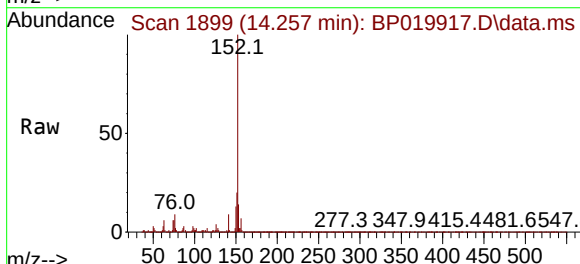
Instrument :
BNA_P
ClientSampleId :
WC-2

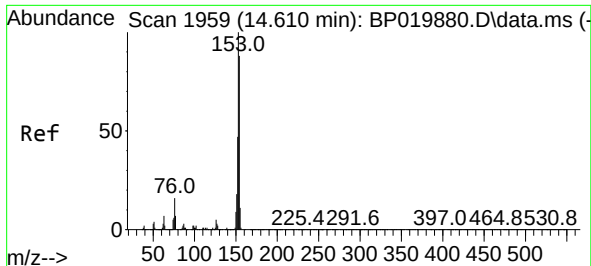
Tgt Ion:154	Resp:	92916
Ion Ratio	Lower	Upper
154	100	
153	39.0	19.8 59.8
76	10.6	0.0 31.8



#49
Acenaphthylene
Concen: 18.509 ng
RT: 14.257 min Scan# 1899
Delta R.T. -0.012 min
Lab File: BP019917.D
Acq: 28 Feb 2024 15:29

Tgt Ion:152	Resp:	303921
Ion Ratio	Lower	Upper
152	100	
151	19.7	15.9 23.9
153	14.0	10.4 15.6

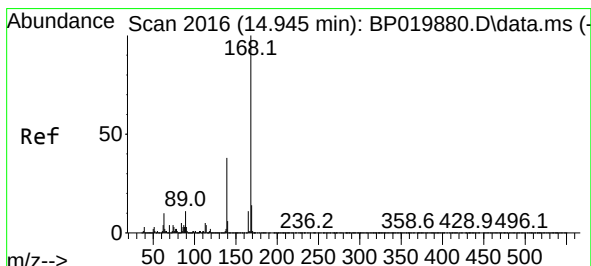
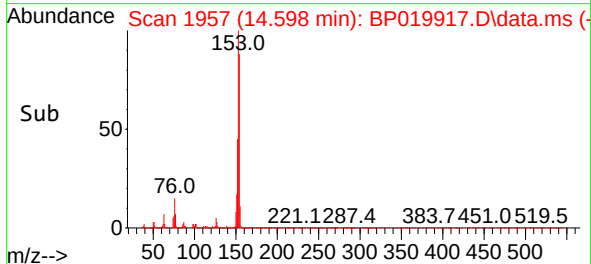
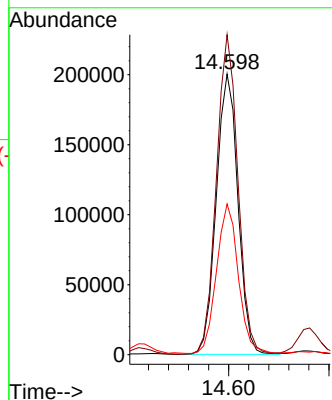
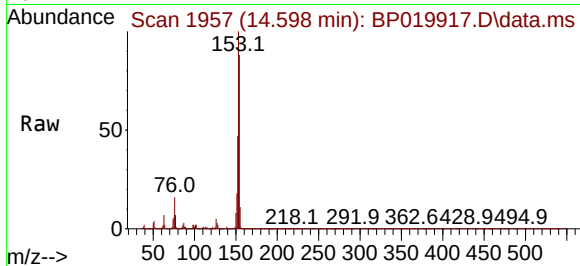




#52
Acenaphthene
Concen: 30.471 ng
RT: 14.598 min Scan# 1959
Delta R.T. -0.012 min
Lab File: BP019917.D
Acq: 28 Feb 2024 15:29

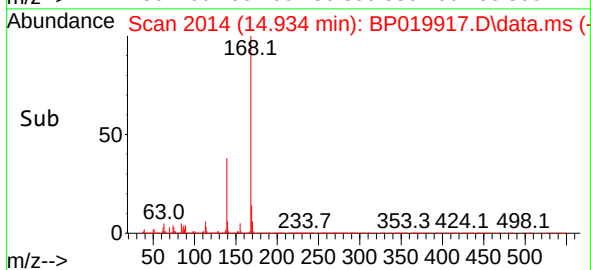
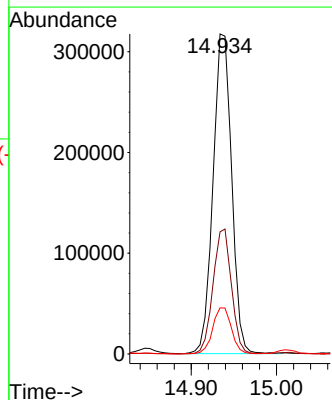
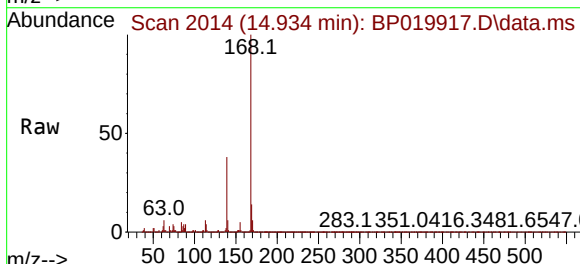
Instrument :
BNA_P
ClientSampleId :
WC-2

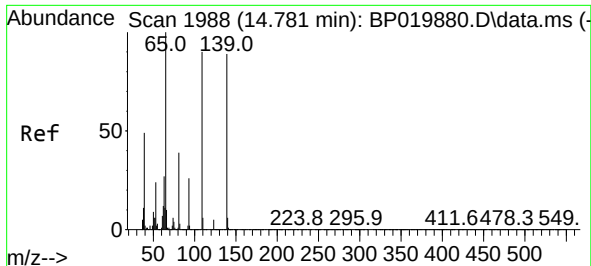
Tgt Ion:154 Resp: 300423
Ion Ratio Lower Upper
154 100
153 114.0 90.9 136.3
152 53.7 42.3 63.5



#55
Dibenzofuran
Concen: 28.615 ng
RT: 14.934 min Scan# 2014
Delta R.T. -0.012 min
Lab File: BP019917.D
Acq: 28 Feb 2024 15:29

Tgt Ion:168 Resp: 481489
Ion Ratio Lower Upper
168 100
139 38.1 30.6 45.8
169 14.4 10.9 16.3

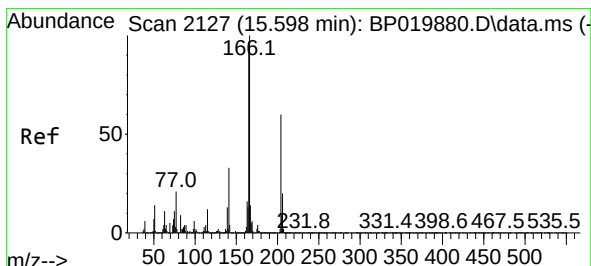
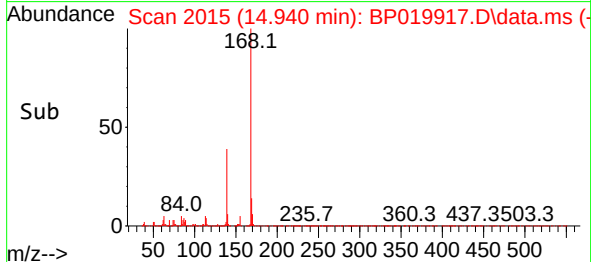
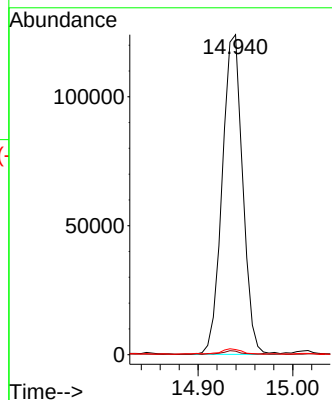
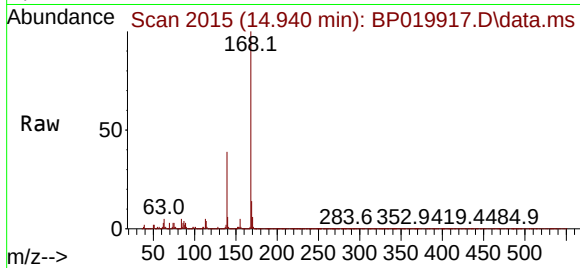




#56
4-Nitrophenol
Concen: 75.050 ng
RT: 14.940 min Scan# 20
Delta R.T. 0.159 min
Lab File: BP019917.D
Acq: 28 Feb 2024 15:29

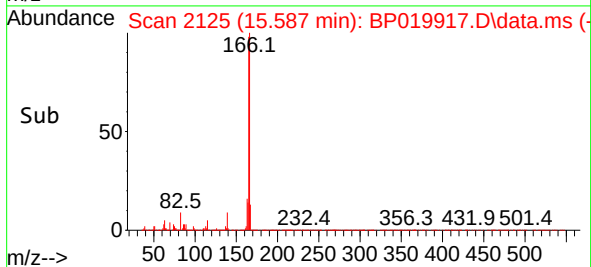
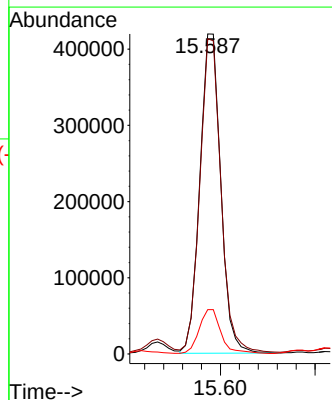
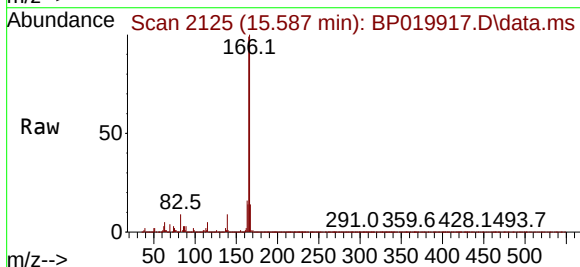
Instrument :
BNA_P
ClientSampleId :
WC-2

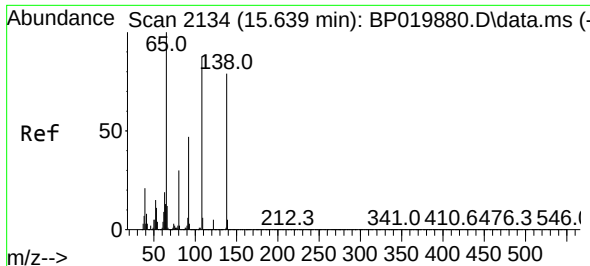
Tgt Ion:139 Resp: 186202
Ion Ratio Lower Upper
139 100
109 1.1 81.3 121.3#
65 1.6 93.5 133.5#



#58
Fluorene
Concen: 47.067 ng
RT: 15.587 min Scan# 2125
Delta R.T. -0.012 min
Lab File: BP019917.D
Acq: 28 Feb 2024 15:29

Tgt Ion:166 Resp: 642301
Ion Ratio Lower Upper
166 100
165 98.5 77.8 116.6
167 13.8 10.8 16.2

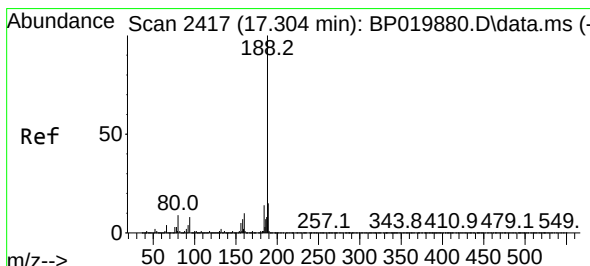
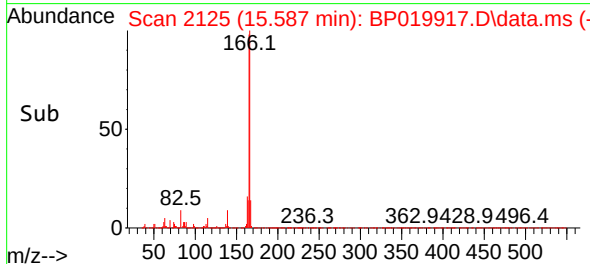
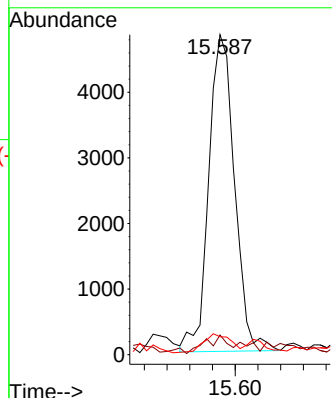
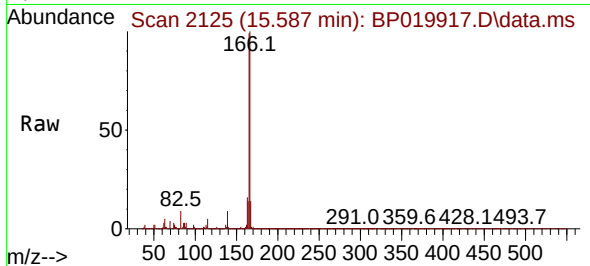




#62
4-Nitroaniline
Concen: 2.309 ng
RT: 15.587 min Scan# 2134
Delta R.T. -0.053 min
Lab File: BP019917.D
Acq: 28 Feb 2024 15:29

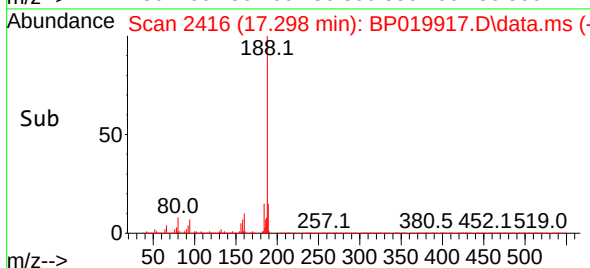
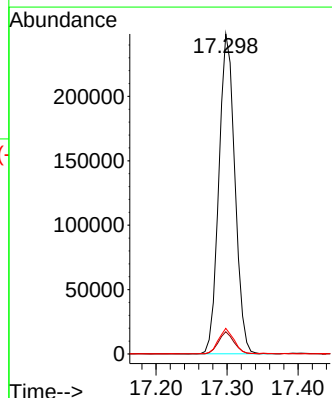
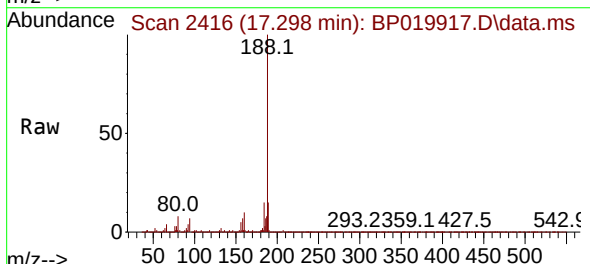
Instrument :
BNA_P
ClientSampleId :
WC-2

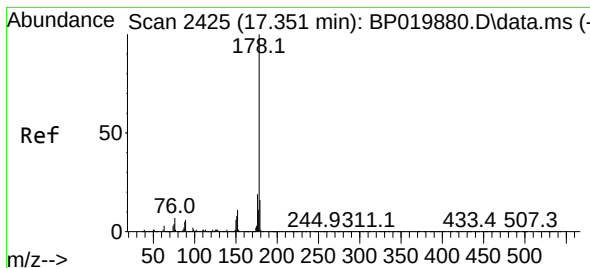
Tgt Ion:138 Resp: 7628
Ion Ratio Lower Upper
138 100
92 6.1 39.5 79.5#
108 5.6 90.7 130.7#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.298 min Scan# 2416
Delta R.T. -0.006 min
Lab File: BP019917.D
Acq: 28 Feb 2024 15:29

Tgt Ion:188 Resp: 387455
Ion Ratio Lower Upper
188 100
94 6.9 6.2 9.4
80 8.0 7.0 10.4





#71

Phenanthrene

Concen: 230.305 ng

RT: 17.351 min Scan# 2425

Delta R.T. 0.000 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

Instrument :

BNA_P

ClientSampleId :

WC-2

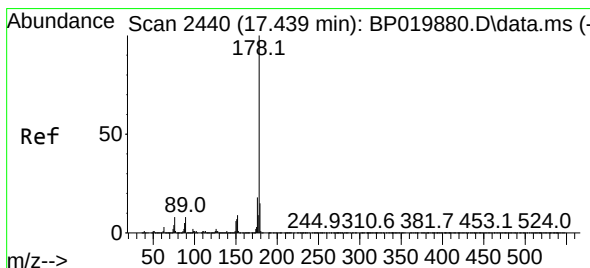
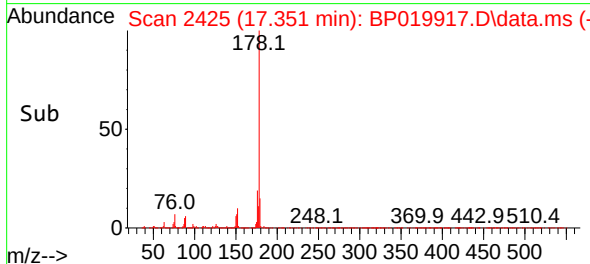
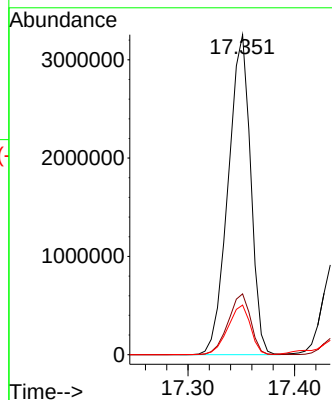
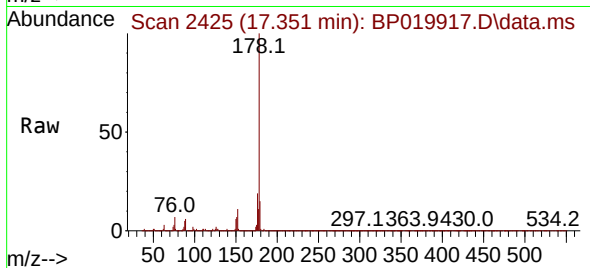
Tgt Ion:178 Resp: 4762972

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

179 15.5 12.5 18.7



#72

Anthracene

Concen: 60.877 ng

RT: 17.434 min Scan# 2439

Delta R.T. -0.006 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

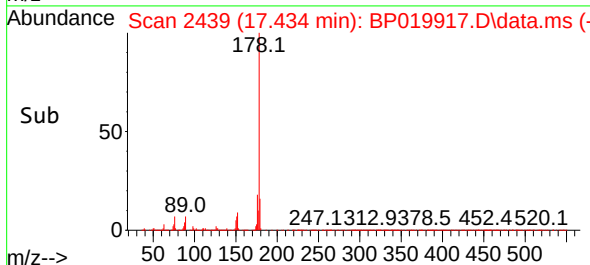
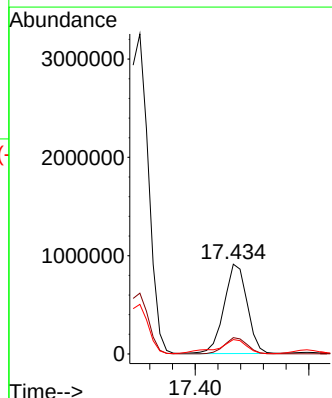
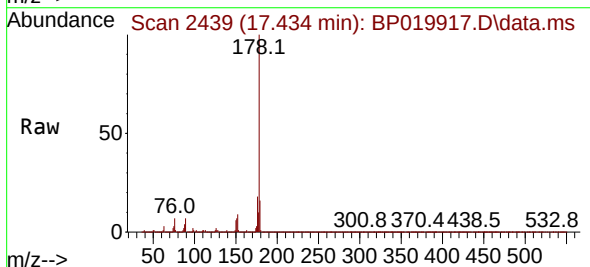
Tgt Ion:178 Resp: 1285222

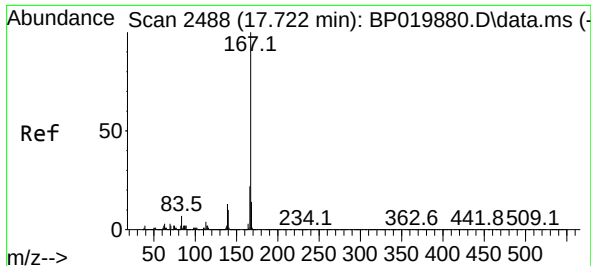
Ion Ratio Lower Upper

178 100

176 18.2 14.7 22.1

179 16.0 12.2 18.4

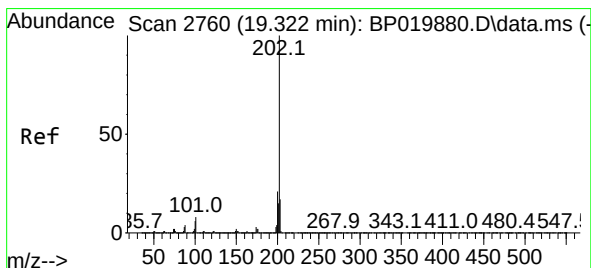
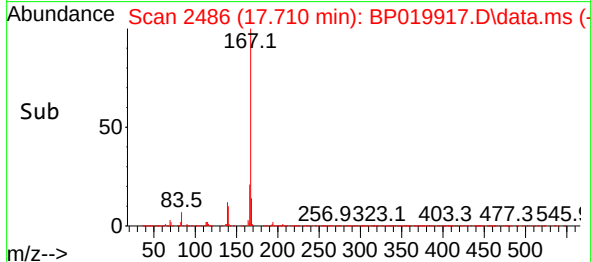
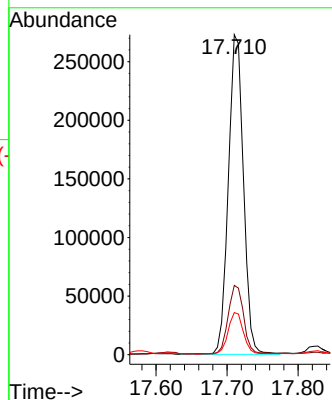
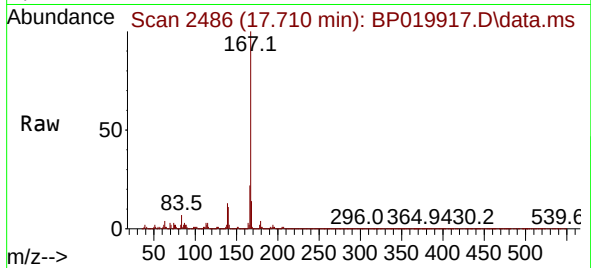




#73
 Carbazole
 Concen: 21.520 ng
 RT: 17.710 min Scan# 2488
 Delta R.T. -0.012 min
 Lab File: BP019917.D
 Acq: 28 Feb 2024 15:29

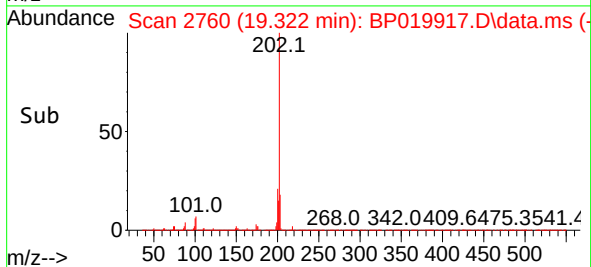
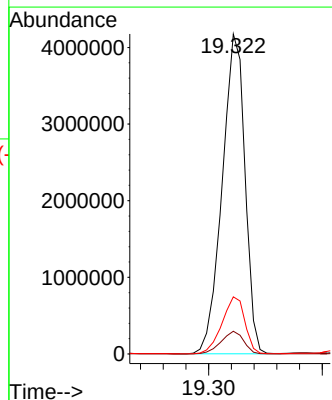
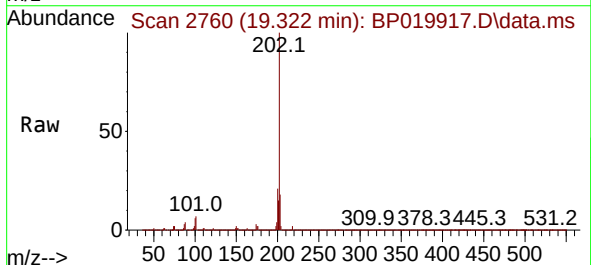
Instrument :
 BNA_P
 ClientSampleId :
 WC-2

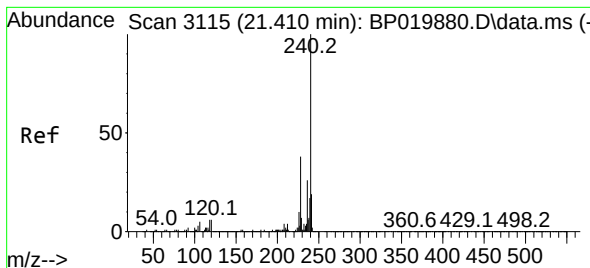
Tgt Ion:167 Resp: 402379
 Ion Ratio Lower Upper
 167 100
 166 21.6 17.3 25.9
 139 13.1 10.5 15.7



#75
 Fluoranthene
 Concen: 216.823 ng
 RT: 19.322 min Scan# 2760
 Delta R.T. 0.000 min
 Lab File: BP019917.D
 Acq: 28 Feb 2024 15:29

Tgt Ion:202 Resp: 5819471
 Ion Ratio Lower Upper
 202 100
 101 7.1 0.0 27.7
 203 17.8 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.410 min Scan# 3115

Delta R.T. 0.000 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

Instrument :

BNA_P

ClientSampleId :

WC-2

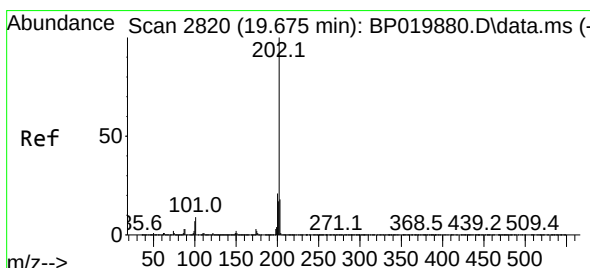
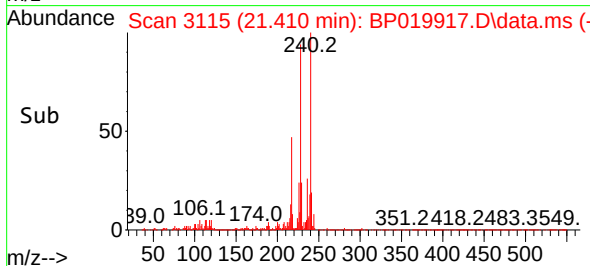
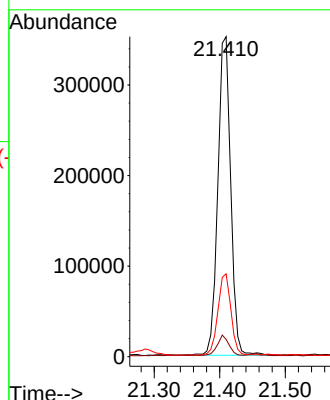
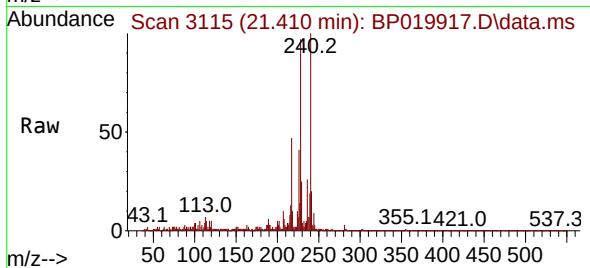
Tgt Ion:240 Resp: 476407

Ion Ratio Lower Upper

240 100

120 6.8 5.1 7.7

236 25.9 20.5 30.7



#78

Pyrene

Concen: 151.520 ng

RT: 19.675 min Scan# 2820

Delta R.T. 0.000 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

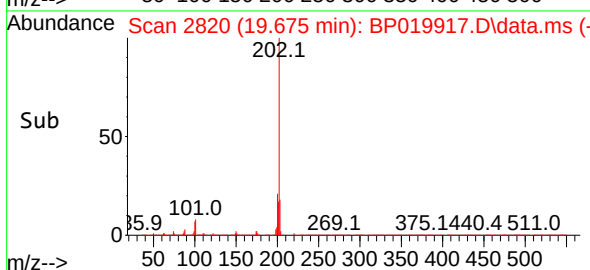
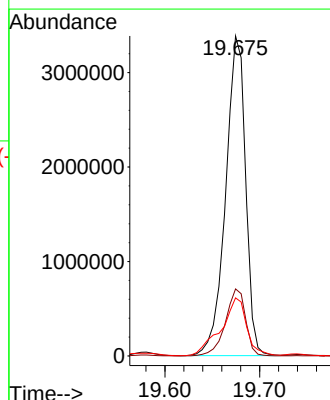
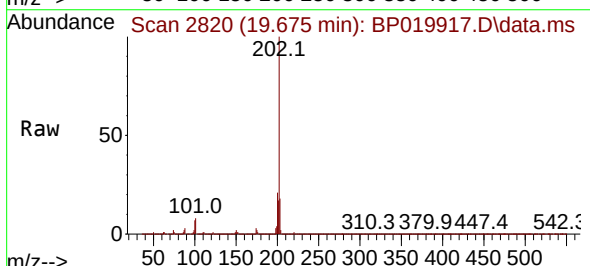
Tgt Ion:202 Resp: 4959551

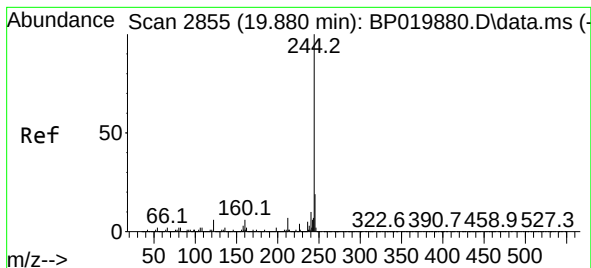
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 18.2 14.2 21.2





#79

Terphenyl-d14

Concen: 37.096 ng

RT: 19.869 min Scan# 21

Delta R.T. -0.012 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

Instrument :

BNA_P

ClientSampleId :

WC-2

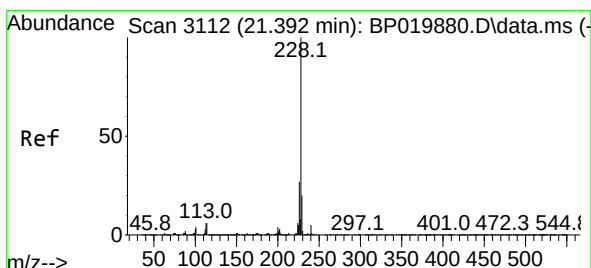
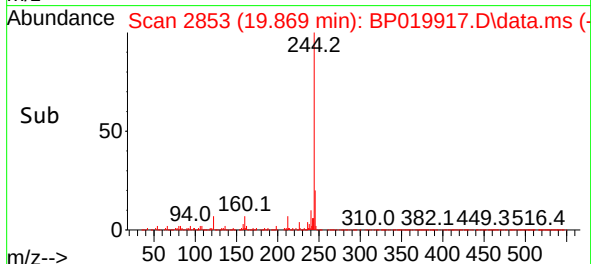
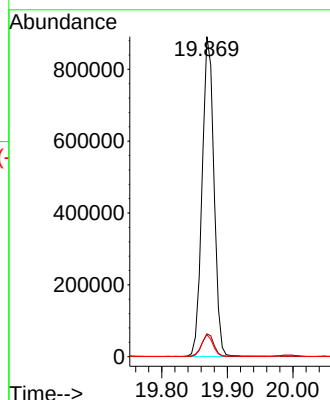
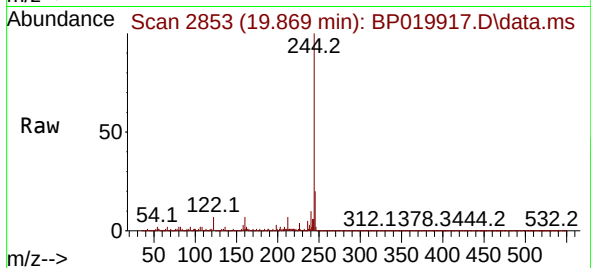
Tgt Ion:244 Resp: 1121277

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.8

122 6.8 5.0 7.6



#81

Benzo(a)anthracene

Concen: 91.108 ng

RT: 21.392 min Scan# 3112

Delta R.T. 0.000 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

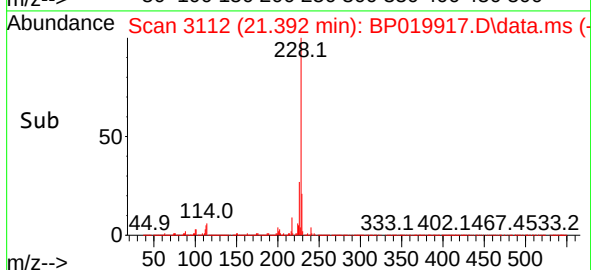
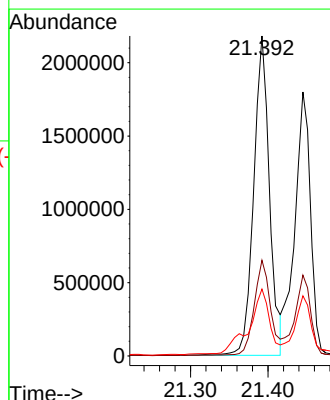
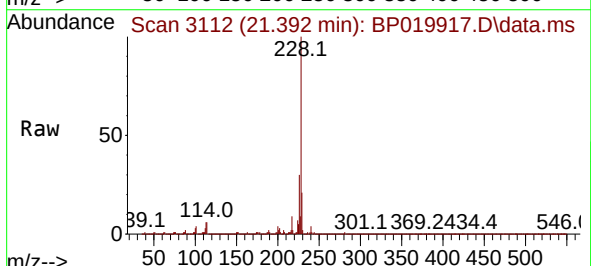
Tgt Ion:228 Resp: 3080994

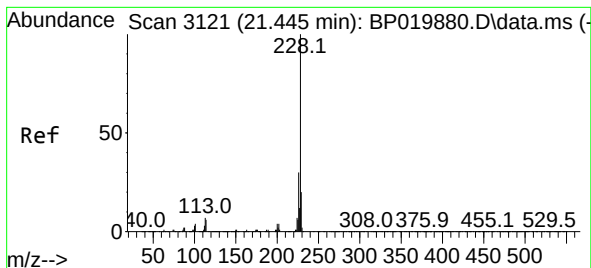
Ion Ratio Lower Upper

228 100

226 29.9 21.5 32.3

229 20.9 15.6 23.4





#83

Chrysene

Concen: 79.751 ng

RT: 21.445 min Scan# 3121

Delta R.T. 0.000 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

Instrument :

BNA_P

ClientSampleId :

WC-2

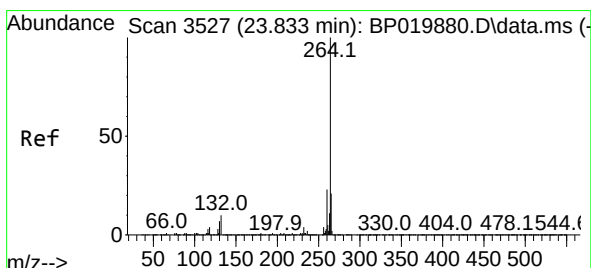
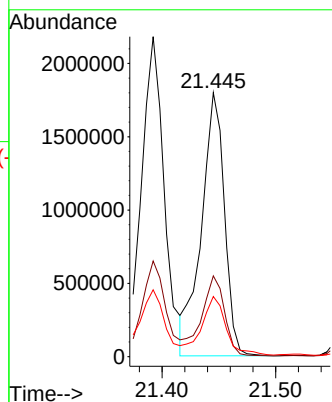
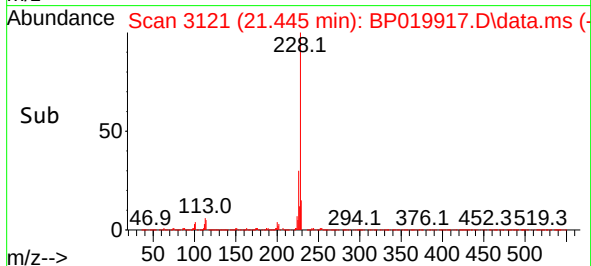
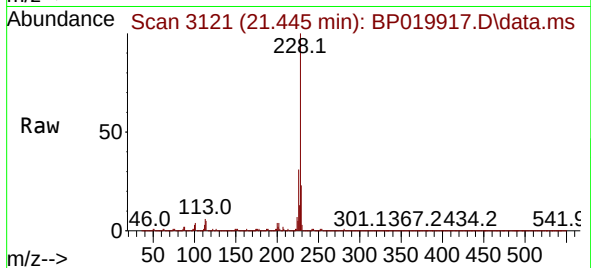
Tgt Ion:228 Resp: 2527140

Ion Ratio Lower Upper

228 100

226 30.6 23.9 35.9

229 22.8 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.833 min Scan# 3527

Delta R.T. 0.000 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

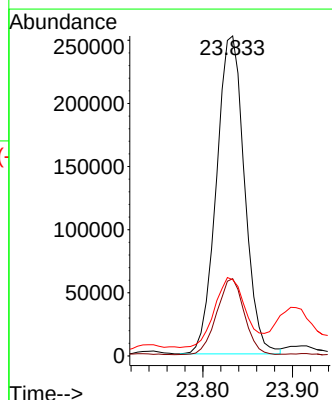
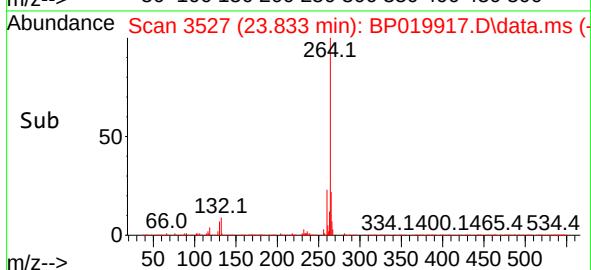
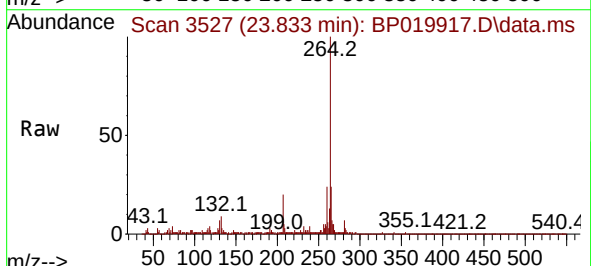
Tgt Ion:264 Resp: 547545

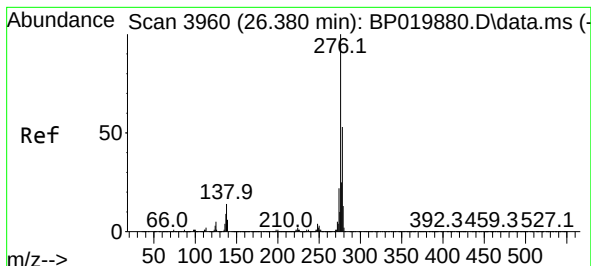
Ion Ratio Lower Upper

264 100

260 24.1 18.7 28.1

265 23.8 17.4 26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 41.295 ng

RT: 26.374 min Scan# 3403

Delta R.T. -0.006 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

Instrument :

BNA_P

ClientSampleId :

WC-2

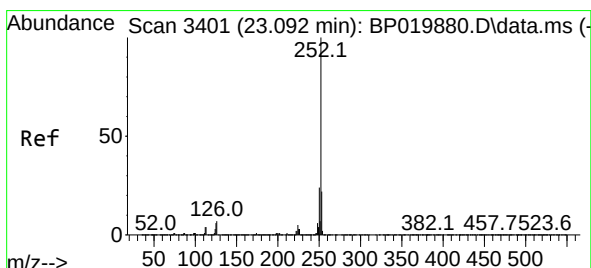
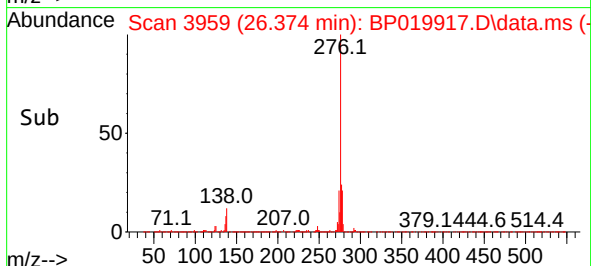
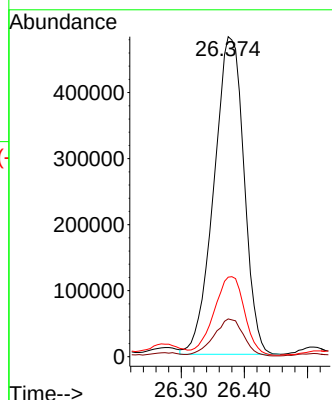
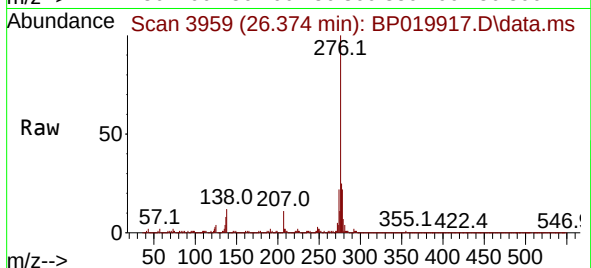
Tgt Ion:276 Resp: 1591805

Ion Ratio Lower Upper

276 100

138 11.5 11.7 17.5#

277 25.2 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 94.886 ng

RT: 23.104 min Scan# 3403

Delta R.T. 0.012 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

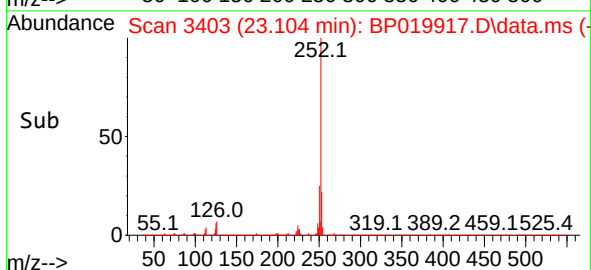
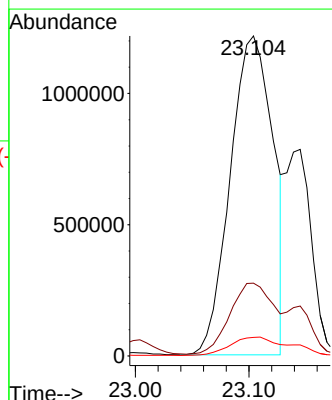
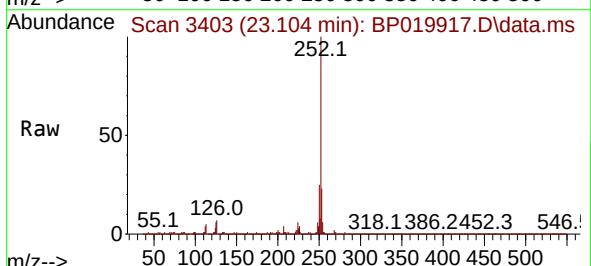
Tgt Ion:252 Resp: 3185280

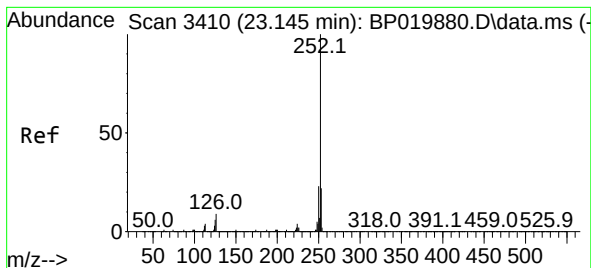
Ion Ratio Lower Upper

252 100

253 22.8 17.6 26.4

125 5.8 4.6 7.0





#89

Benzo(k)fluoranthene

Concen: 96.751 ng

RT: 23.104 min Scan# 34

Delta R.T. -0.041 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

Instrument :

BNA_P

ClientSampleId :

WC-2

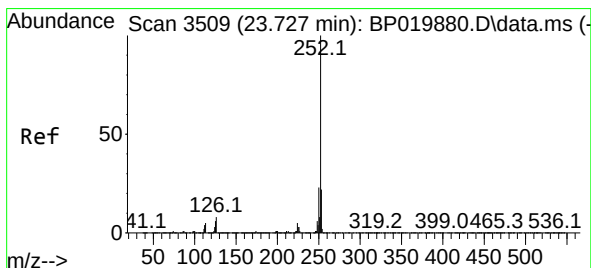
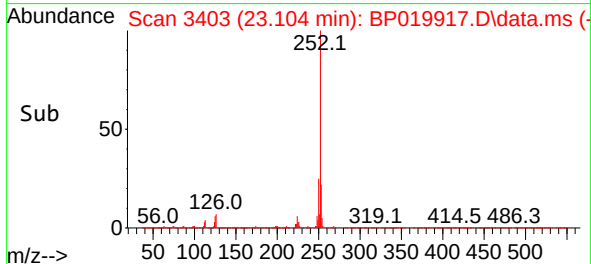
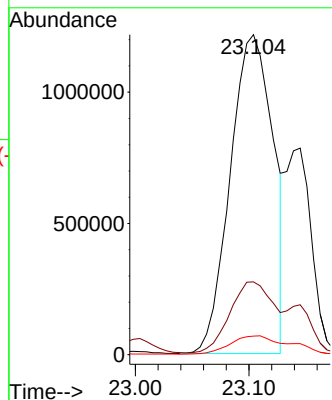
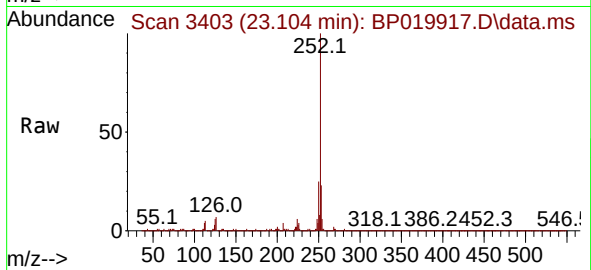
Tgt Ion:252 Resp: 3185280

Ion Ratio Lower Upper

252 100

253 22.8 17.3 25.9

125 5.8 4.6 6.8



#90

Benzo(a)pyrene

Concen: 77.044 ng

RT: 23.733 min Scan# 3510

Delta R.T. 0.006 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

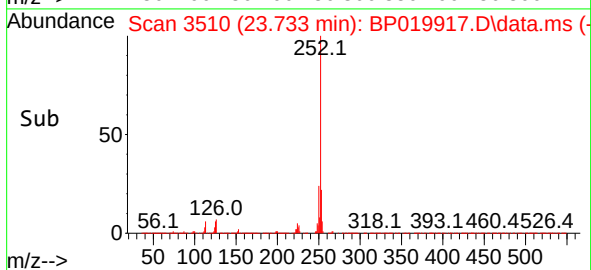
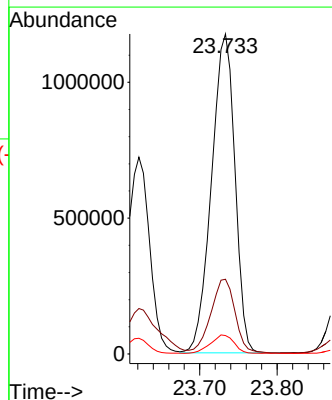
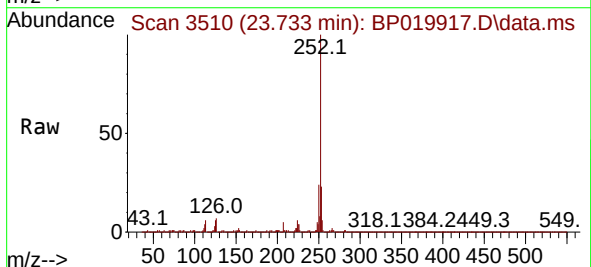
Tgt Ion:252 Resp: 2471660

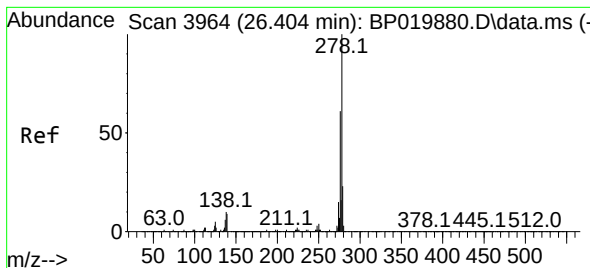
Ion Ratio Lower Upper

252 100

253 23.4 17.5 26.3

125 5.8 5.2 7.8





#91

Dibenzo(a,h)anthracene

Concen: 13.041 ng

RT: 26.392 min Scan# 3964

Delta R.T. -0.012 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

Instrument :

BNA_P

ClientSampleId :

WC-2

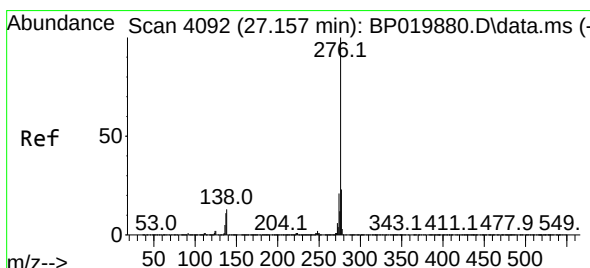
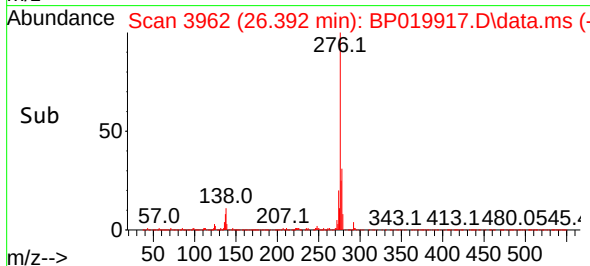
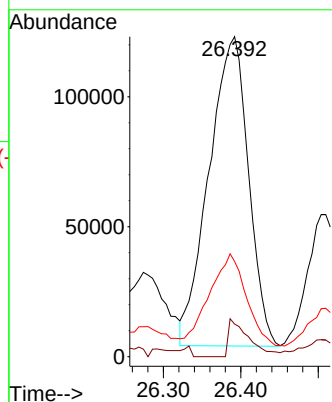
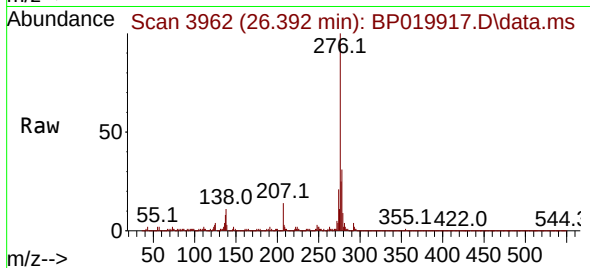
Tgt Ion:278 Resp: 422596

Ion Ratio Lower Upper

278 100

139 10.2 7.4 11.0

279 29.7 18.7 28.1#



#92

Benzo(g,h,i)perylene

Concen: 46.483 ng

RT: 27.162 min Scan# 4093

Delta R.T. 0.006 min

Lab File: BP019917.D

Acq: 28 Feb 2024 15:29

Tgt Ion:276 Resp: 1454101

Ion Ratio Lower Upper

276 100

277 24.5 18.5 27.7

138 12.0 10.2 15.2

