

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101221\
 Data File : BN016899.D
 Acq On : 12 Oct 2021 13:21
 Operator : CG/JU
 Sample : M3702-21DL 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

Quant Time: Oct 12 14:16:09 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN101221.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 12 02:31:22 2021
 Response via : Initial Calibration

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

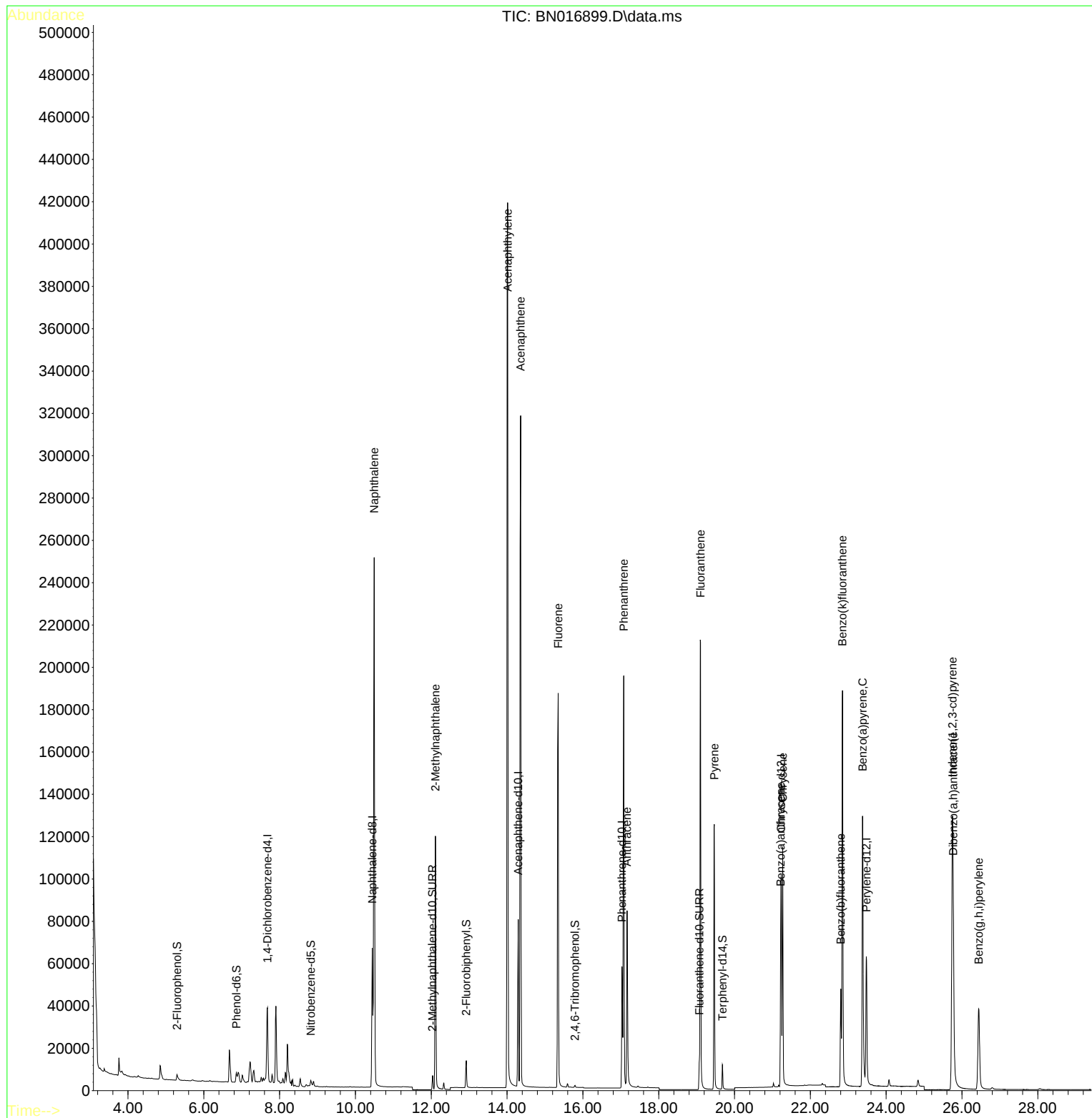
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.679	152	19777	0.400	ng	0.00
7) Naphthalene-d8	10.445	136	87711	0.400	ng	#-0.01
13) Acenaphthene-d10	14.294	164	46397	0.400	ng	0.00
19) Phenanthrene-d10	17.030	188	84772	0.400	ng	#-0.01
29) Chrysene-d12	21.227	240	79053	0.400	ng	#-0.01
35) Perylene-d12	23.478	264	84005	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	3672	0.072	ng	0.00
5) Phenol-d6	6.859	99	4470	0.079	ng	0.00
8) Nitrobenzene-d5	8.822	82	3325	0.056	ng	-0.01
11) 2-Methylnaphthalene-d10	12.034	152	9770	0.077	ng	0.00
14) 2,4,6-Tribromophenol	15.791	330	973	0.043	ng	0.00
15) 2-Fluorobiphenyl	12.924	172	12719	0.072	ng	0.00
27) Fluoranthene-d10	19.073	212	16397	0.074	ng	0.00
31) Terphenyl-d14	19.683	244	13462	0.075	ng	0.00
Target Compounds						
						Qvalue
9) Naphthalene	10.495	128	342232	1.431	ng	99
12) 2-Methylnaphthalene	12.110	142	92692	0.620	ng	99
16) Acenaphthylene	14.015	152	536969	2.713	ng	100
17) Acenaphthene	14.358	154	174594	1.328	ng	99
18) Fluorene	15.347	166	137307	0.865	ng	100
25) Phenanthrene	17.078	178	208343	0.856	ng	100
26) Anthracene	17.164	178	98347	0.460	ng	100
28) Fluoranthene	19.103	202	203841	0.761	ng	100
30) Pyrene	19.465	202	118638	0.457	ng	100
32) Benzo(a)anthracene	21.217	228	47517	0.188	ng	100
33) Chrysene	21.270	228	98368	0.379	ng	99
36) Indeno(1,2,3-cd)pyrene	25.747	276	224383	0.681	ng	96
37) Benzo(b)fluoranthene	22.803	252	58618	0.209	ng	99
38) Benzo(k)fluoranthene	22.848	252	231296	0.834	ng	98
39) Benzo(a)pyrene	23.378	252	200912	0.786	ng	99
40) Dibenzo(a,h)anthracene	25.771	278	82447	0.307	ng	99
41) Benzo(g,h,i)perylene	26.442	276	85314	0.301	ng	100

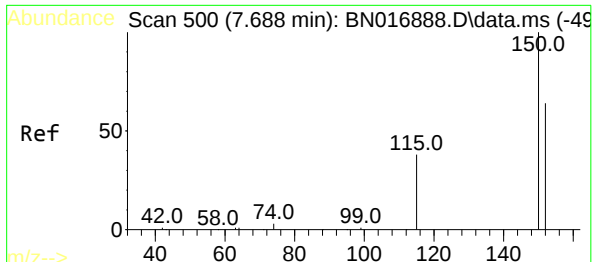
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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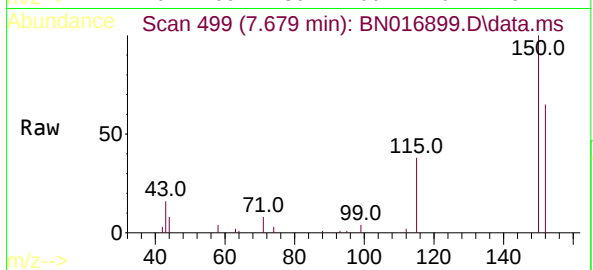
Quant Time: Oct 12 14:16:09 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN101221.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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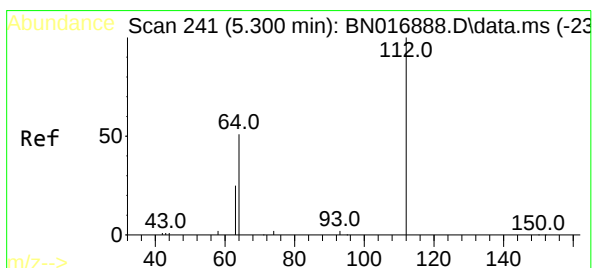
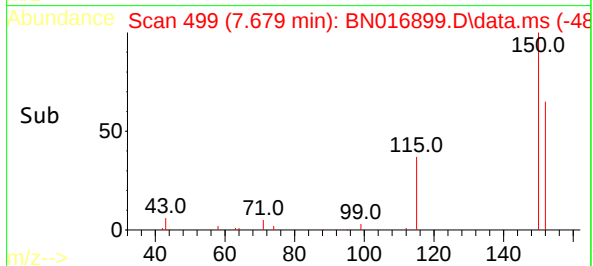
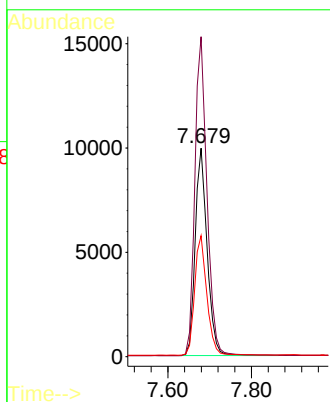


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.679 min Scan# 499
Delta R.T. -0.009 min
Lab File: BN016899.D
Acq: 12 Oct 2021 13:21

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

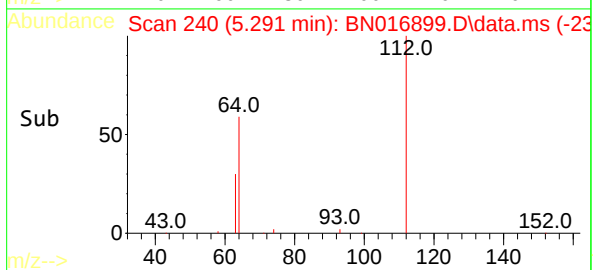
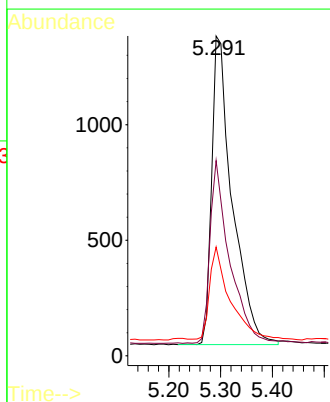
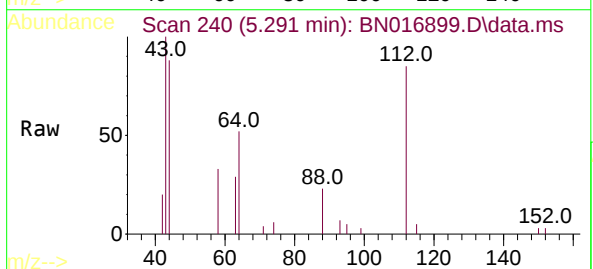


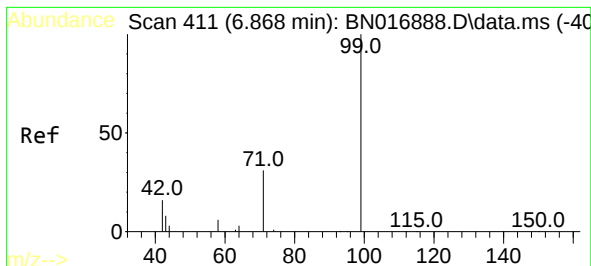
Tgt Ion:152 Resp: 19777
Ion Ratio Lower Upper
152 100
150 153.5 124.2 186.4
115 58.0 47.0 70.6



#4
2-Fluorophenol
Concen: 0.072 ng
RT: 5.291 min Scan# 240
Delta R.T. -0.009 min
Lab File: BN016899.D
Acq: 12 Oct 2021 13:21

Tgt Ion:112 Resp: 3672
Ion Ratio Lower Upper
112 100
64 56.6 44.5 66.7
63 29.0 22.1 33.1





#5

Phenol-d6

Concen: 0.079 ng

RT: 6.859 min Scan# 411

Delta R.T. -0.009 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

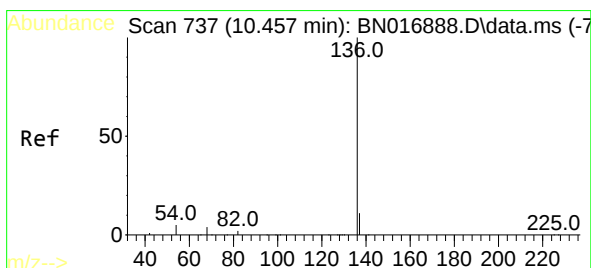
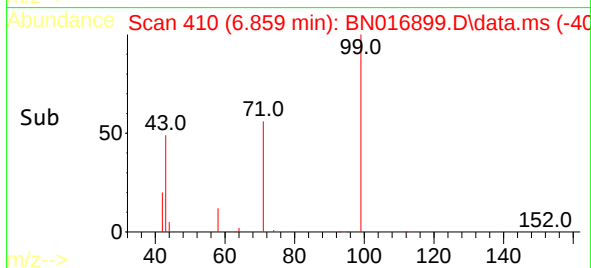
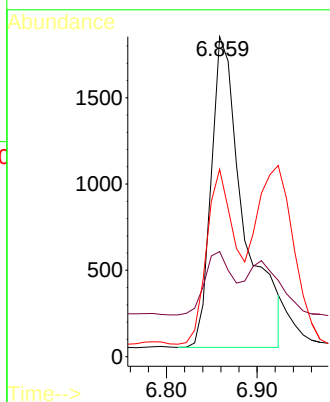
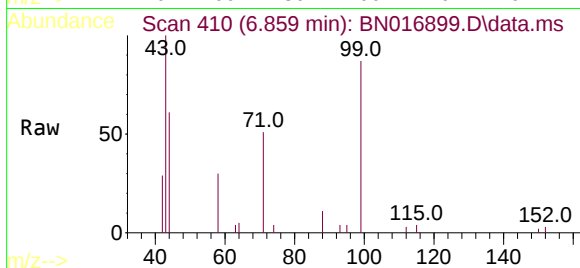
Tgt Ion: 99 Resp: 4470

Ion Ratio Lower Upper

99 100

42 16.8 13.9 20.9

71 51.0 24.5 36.7#



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.445 min Scan# 736

Delta R.T. -0.013 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

Tgt Ion: 136 Resp: 87711

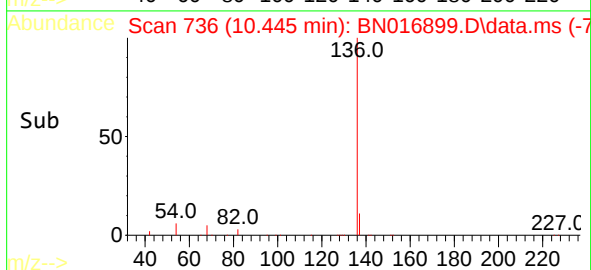
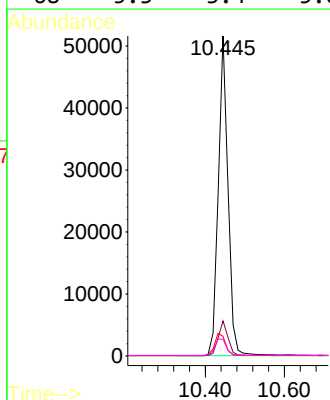
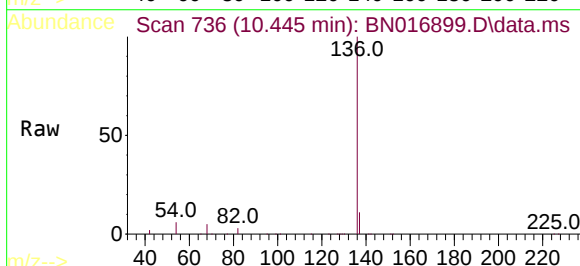
Ion Ratio Lower Upper

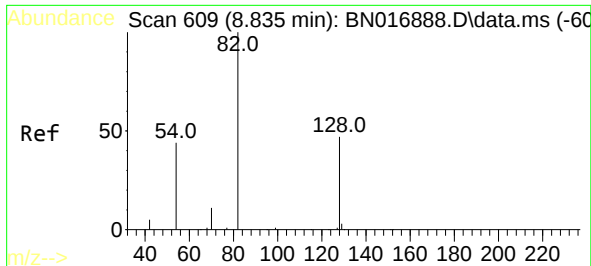
136 100

137 10.9 8.8 13.2

54 6.2 3.8 5.6#

68 5.3 3.4 5.0#

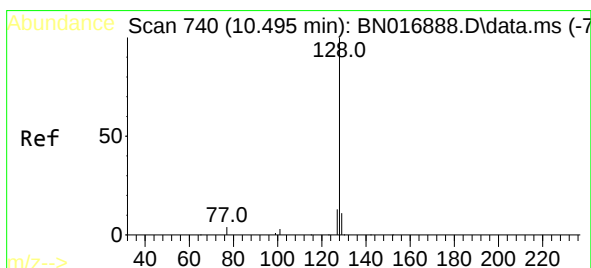
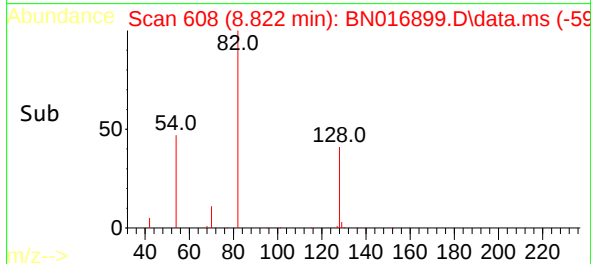
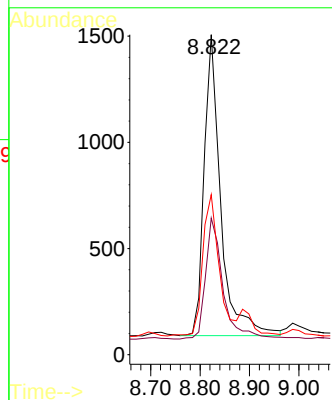
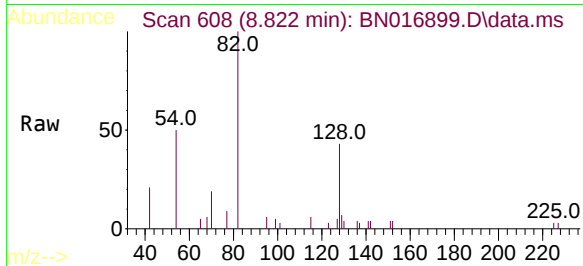




#8
Nitrobenzene-d5
Concen: 0.056 ng
RT: 8.822 min Scan# 609
Delta R.T. -0.013 min
Lab File: BN016899.D
Acq: 12 Oct 2021 13:21

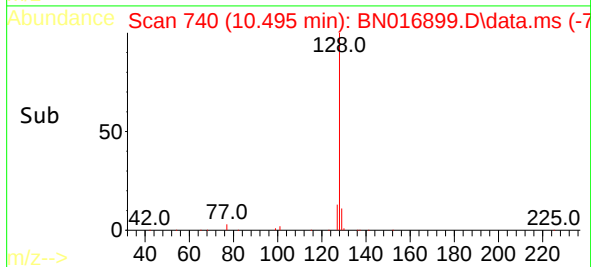
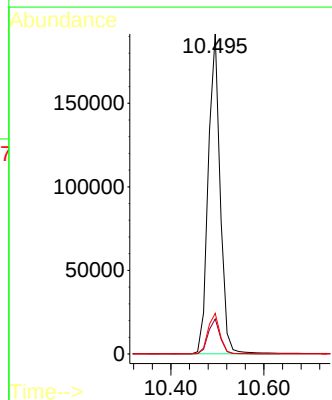
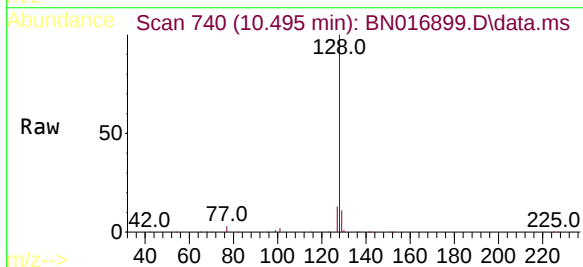
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

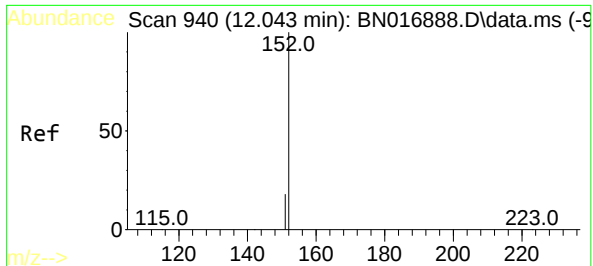
Tgt Ion: 82 Resp: 3325
Ion Ratio Lower Upper
82 100
128 42.7 37.8 56.6
54 50.0 35.3 52.9



#9
Naphthalene
Concen: 1.431 ng
RT: 10.495 min Scan# 740
Delta R.T. 0.000 min
Lab File: BN016899.D
Acq: 12 Oct 2021 13:21

Tgt Ion: 128 Resp: 342232
Ion Ratio Lower Upper
128 100
129 11.0 8.8 13.2
127 12.7 10.7 16.1

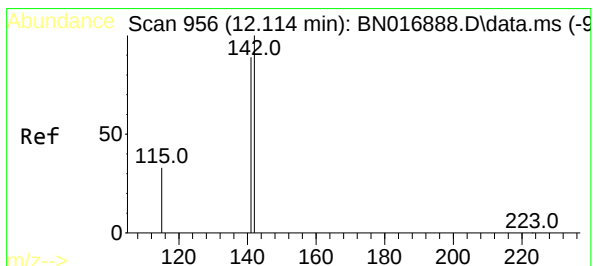
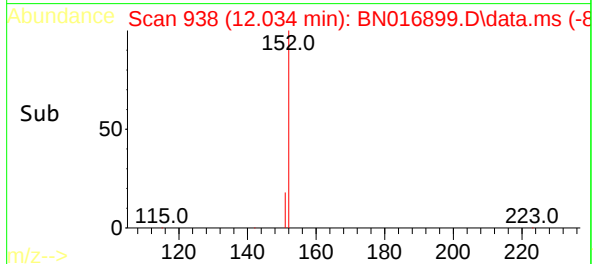
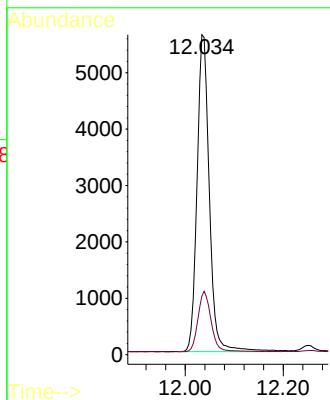
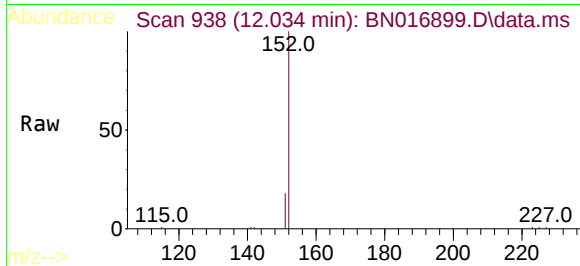




#11
2-Methylnaphthalene-d10
Concen: 0.077 ng
RT: 12.034 min Scan# 911
Delta R.T. -0.009 min
Lab File: BN016899.D
Acq: 12 Oct 2021 13:21

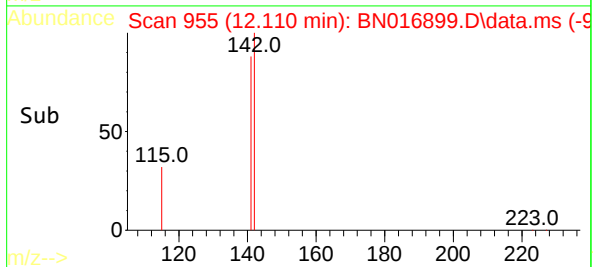
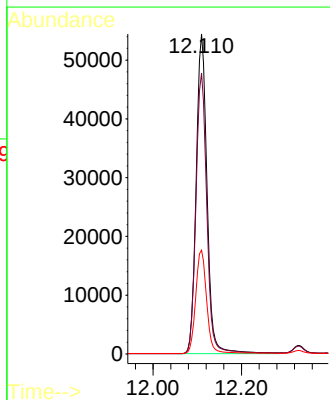
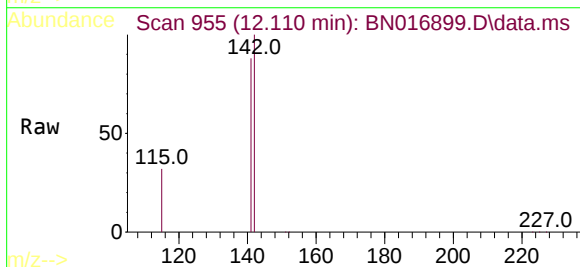
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

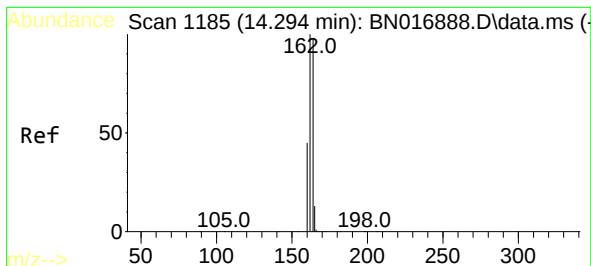
Tgt Ion:152 Resp: 9770
Ion Ratio Lower Upper
152 100
151 20.5 16.3 24.5



#12
2-Methylnaphthalene
Concen: 0.620 ng
RT: 12.110 min Scan# 955
Delta R.T. -0.004 min
Lab File: BN016899.D
Acq: 12 Oct 2021 13:21

Tgt Ion:142 Resp: 92692
Ion Ratio Lower Upper
142 100
141 87.8 71.0 106.4
115 32.5 26.6 40.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.294 min Scan# 1185

Delta R.T. 0.000 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

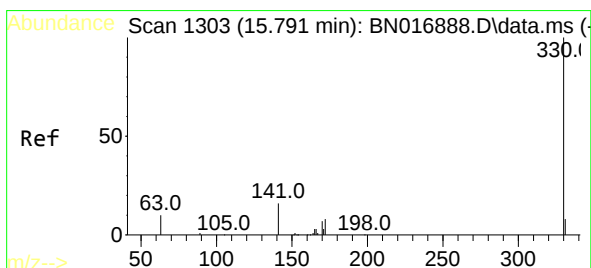
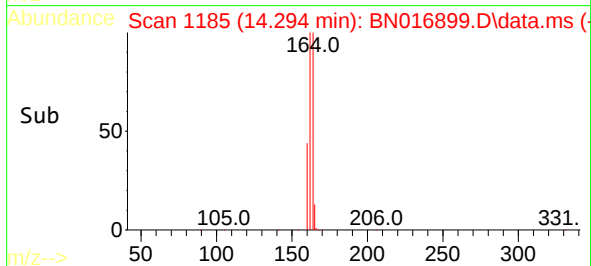
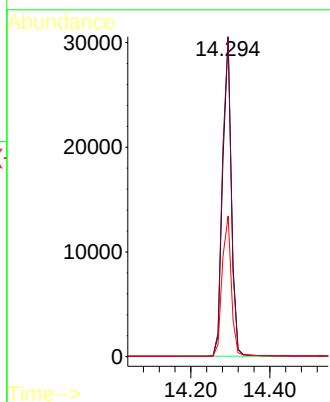
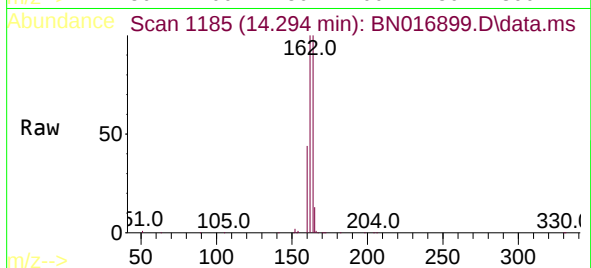
Tgt Ion:164 Resp: 46397

Ion Ratio Lower Upper

164 100

162 100.2 81.8 122.8

160 44.0 37.0 55.4



#14

2,4,6-Tribromophenol

Concen: 0.043 ng

RT: 15.791 min Scan# 1303

Delta R.T. 0.000 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

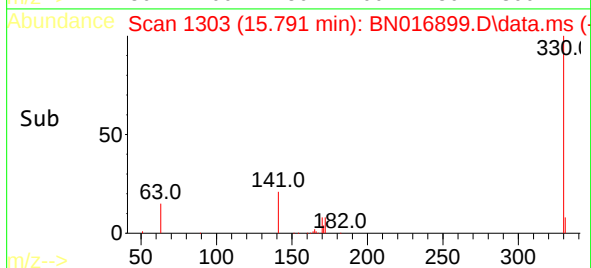
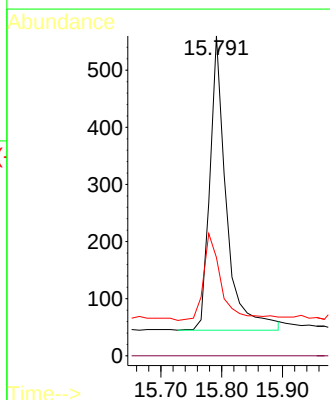
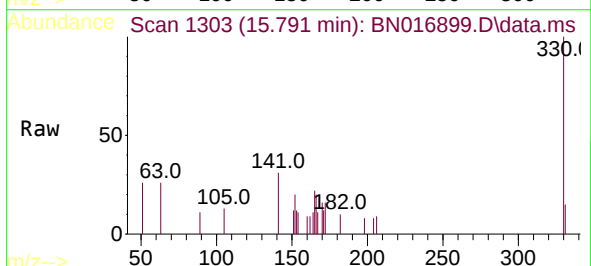
Tgt Ion:330 Resp: 973

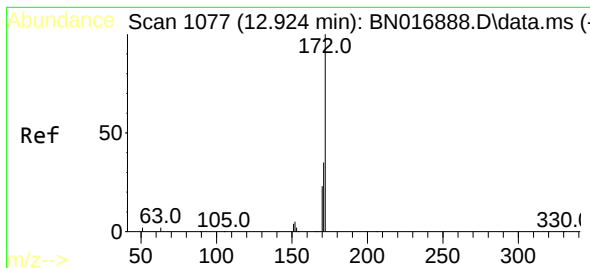
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 32.6 24.3 36.5

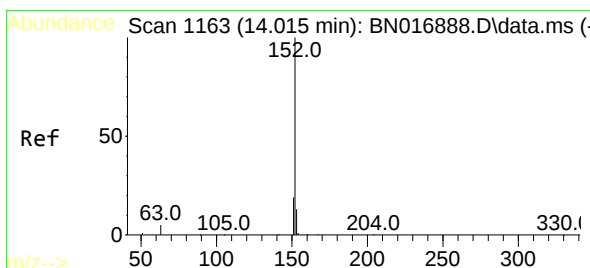
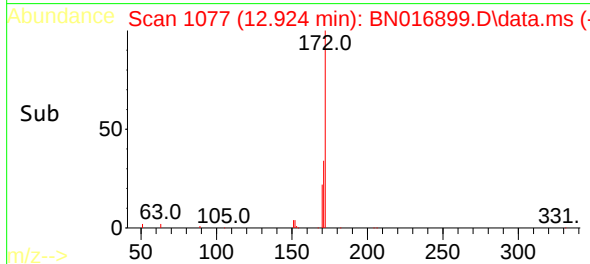
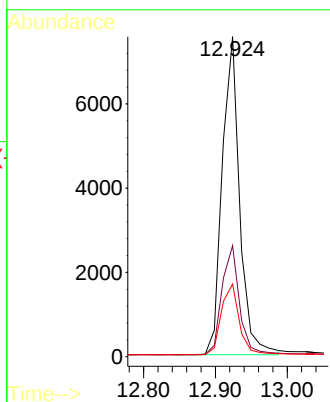
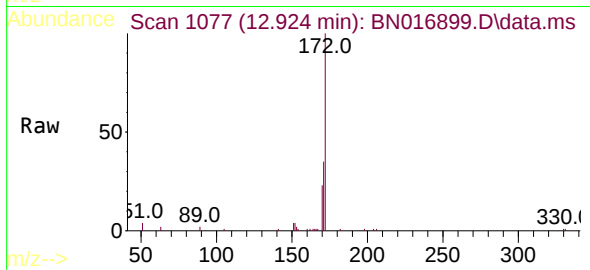




#15
2-Fluorobiphenyl
Concen: 0.072 ng
RT: 12.924 min Scan# 1077
Delta R.T. 0.000 min
Lab File: BN016899.D
Acq: 12 Oct 2021 13:21

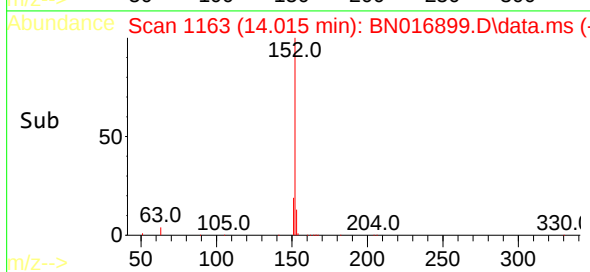
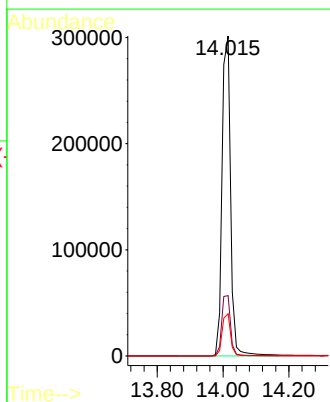
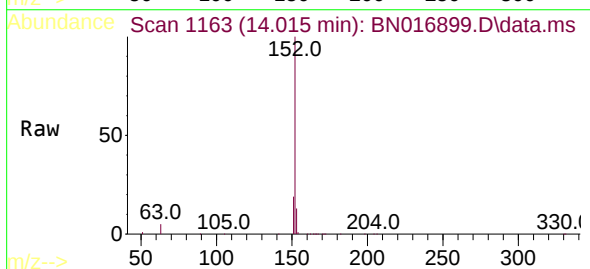
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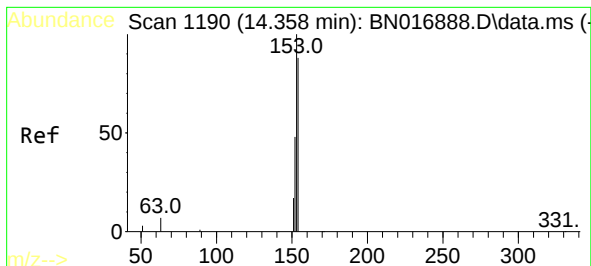
Tgt Ion:172 Resp: 12719
Ion Ratio Lower Upper
172 100
171 34.7 27.7 41.5
170 22.7 18.3 27.5



#16
Acenaphthylene
Concen: 2.713 ng
RT: 14.015 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN016899.D
Acq: 12 Oct 2021 13:21

Tgt Ion:152 Resp: 536969
Ion Ratio Lower Upper
152 100
151 19.5 15.5 23.3
153 13.1 10.4 15.6





#17

Acenaphthene

Concen: 1.328 ng

RT: 14.358 min Scan# 1190

Delta R.T. 0.000 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

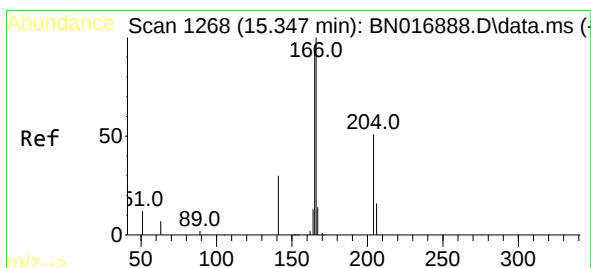
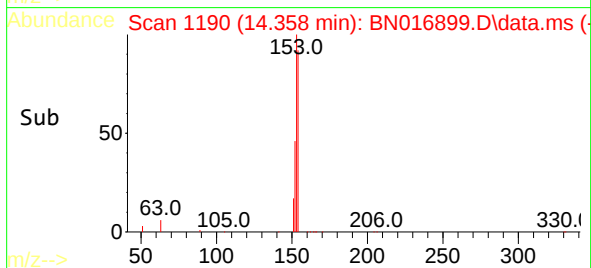
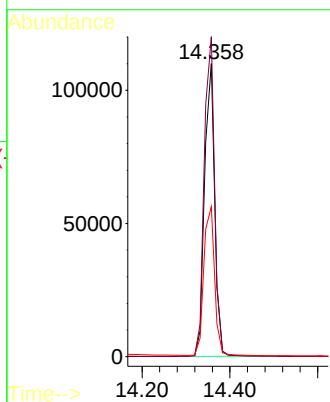
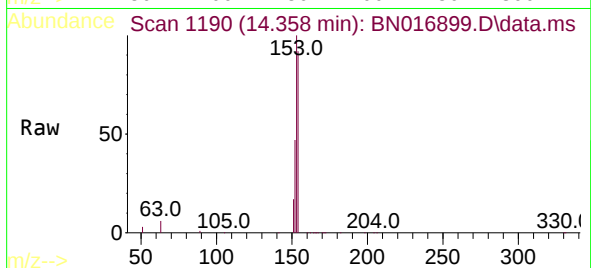
Tgt Ion:154 Resp: 174594

Ion Ratio Lower Upper

154 100

153 112.3 90.6 135.8

152 54.6 43.7 65.5



#18

Fluorene

Concen: 0.865 ng

RT: 15.347 min Scan# 1268

Delta R.T. 0.000 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

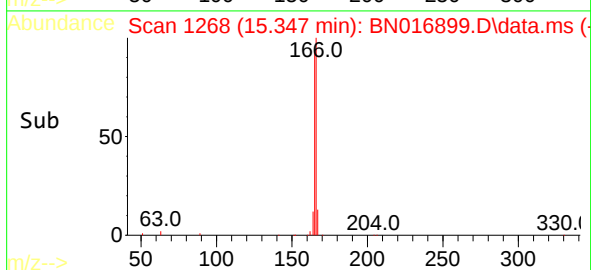
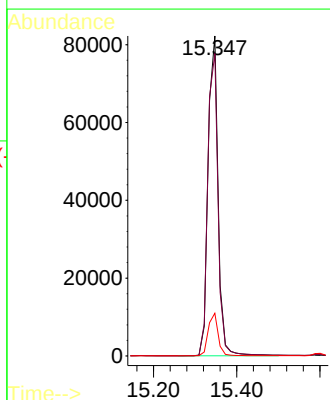
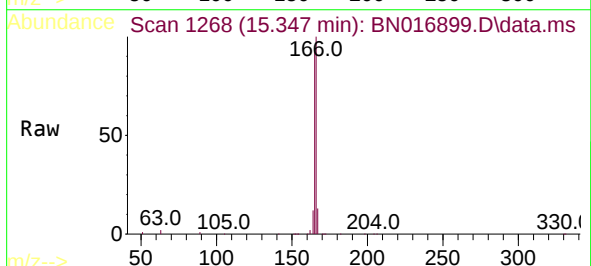
Tgt Ion:166 Resp: 137307

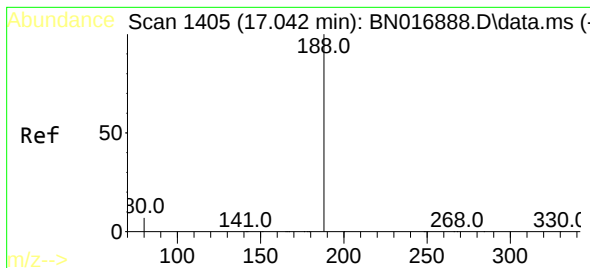
Ion Ratio Lower Upper

166 100

165 97.3 78.2 117.2

167 13.2 10.8 16.2

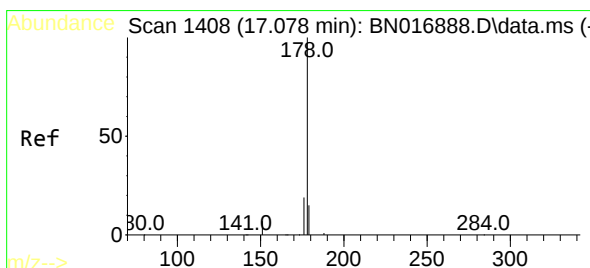
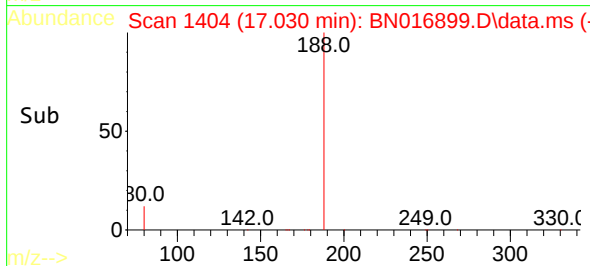
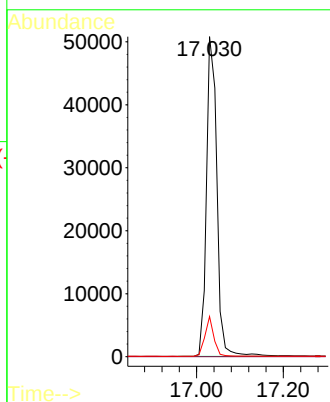
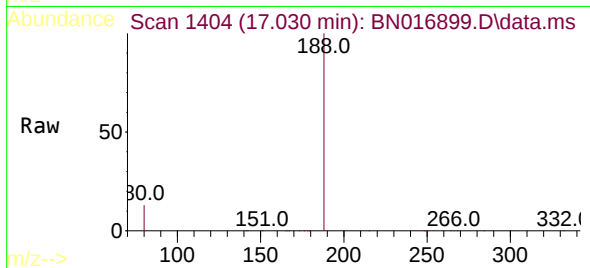




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.030 min Scan# 1404
Delta R.T. -0.012 min
Lab File: BN016899.D
Acq: 12 Oct 2021 13:21

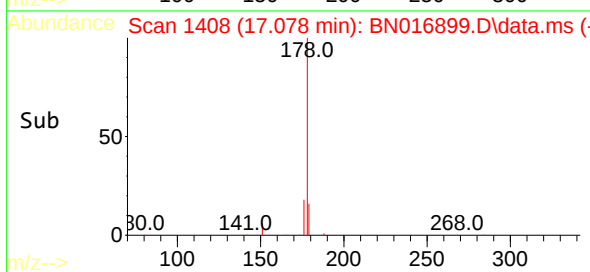
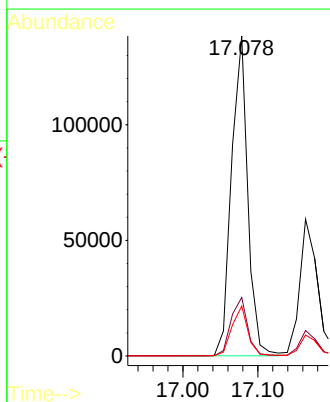
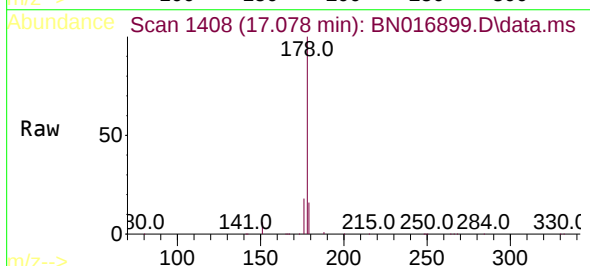
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

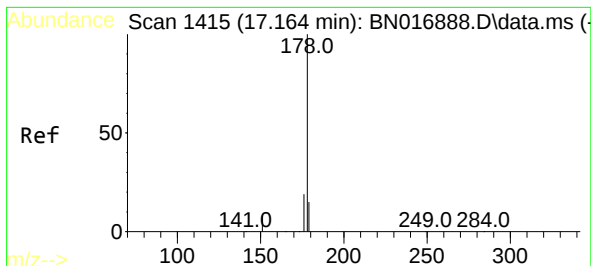
Tgt Ion:188 Resp: 84772
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.6 5.4 8.2#



#25
Phenanthrene
Concen: 0.856 ng
RT: 17.078 min Scan# 1408
Delta R.T. 0.000 min
Lab File: BN016899.D
Acq: 12 Oct 2021 13:21

Tgt Ion:178 Resp: 208343
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.4 12.3 18.5





#26

Anthracene

Concen: 0.460 ng

RT: 17.164 min Scan# 1415

Delta R.T. 0.000 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

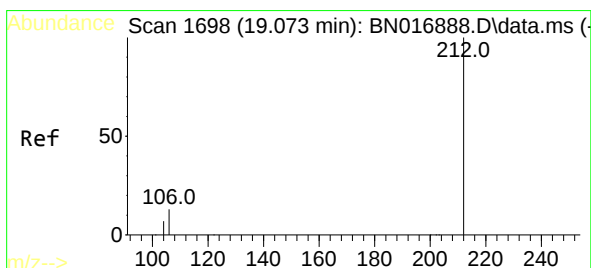
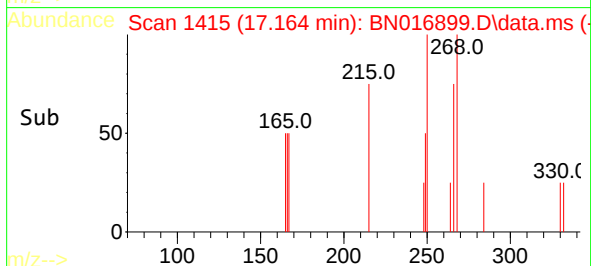
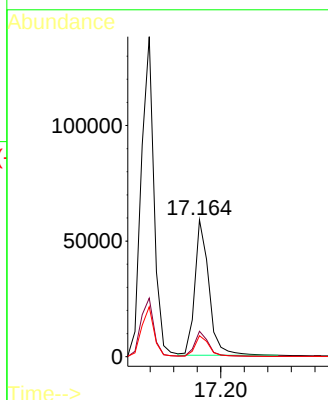
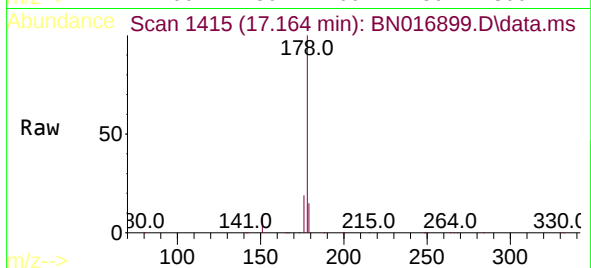
Tgt Ion:178 Resp: 98347

Ion Ratio Lower Upper

178 100

176 18.2 14.6 22.0

179 15.4 12.2 18.4



#27

Fluoranthene-d10

Concen: 0.074 ng

RT: 19.073 min Scan# 1698

Delta R.T. 0.000 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

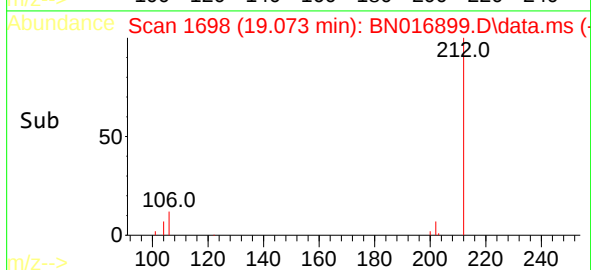
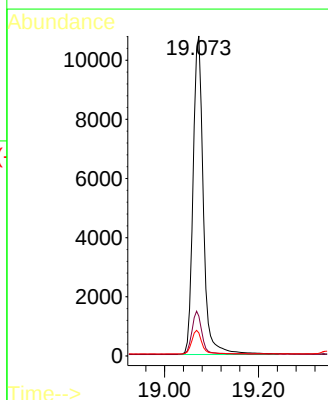
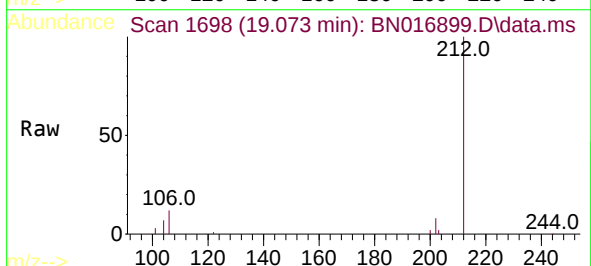
Tgt Ion:212 Resp: 16397

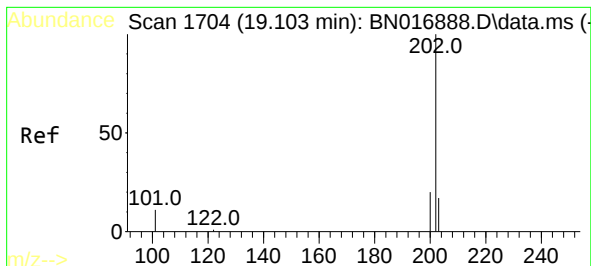
Ion Ratio Lower Upper

212 100

106 13.3 10.8 16.2

104 7.3 5.9 8.9





#28

Fluoranthene

Concen: 0.761 ng

RT: 19.103 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

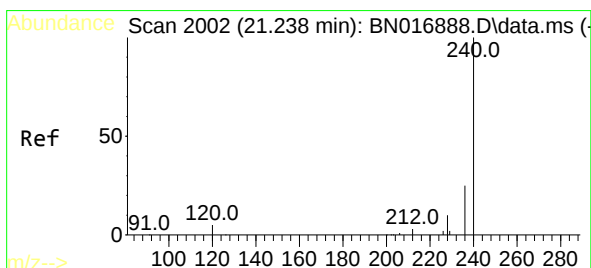
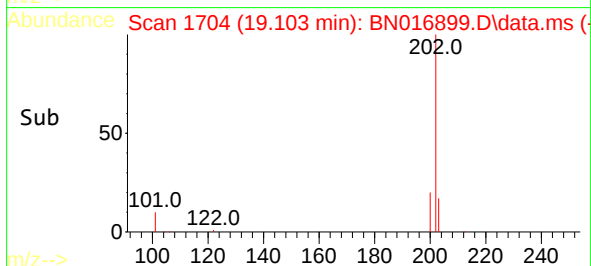
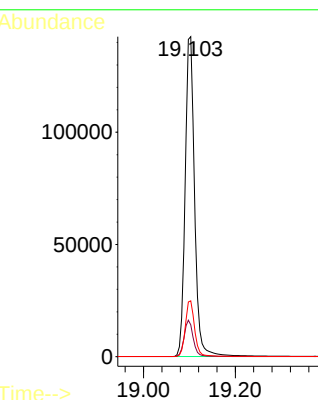
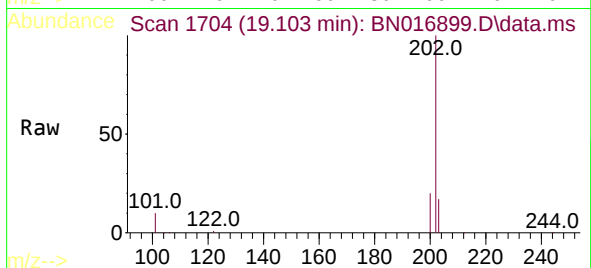
Tgt Ion:202 Resp: 203841

Ion Ratio Lower Upper

202 100

101 11.1 9.0 13.6

203 17.3 13.8 20.8



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.227 min Scan# 2001

Delta R.T. -0.011 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

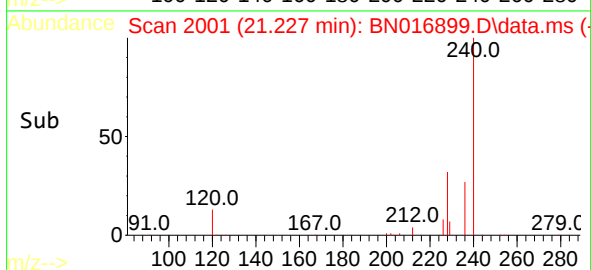
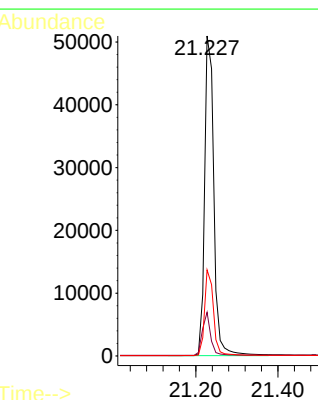
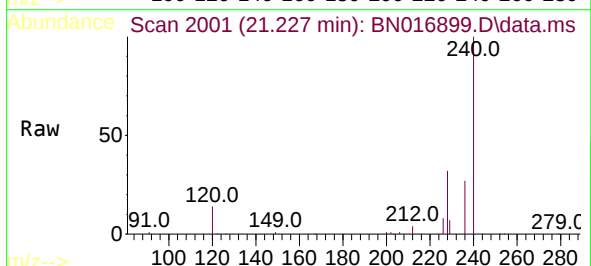
Tgt Ion:240 Resp: 79053

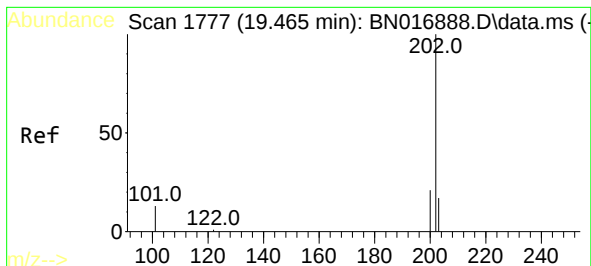
Ion Ratio Lower Upper

240 100

120 13.7 4.1 6.1#

236 26.9 20.1 30.1





#30

Pyrene

Concen: 0.457 ng

RT: 19.465 min Scan# 1777

Delta R.T. 0.000 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

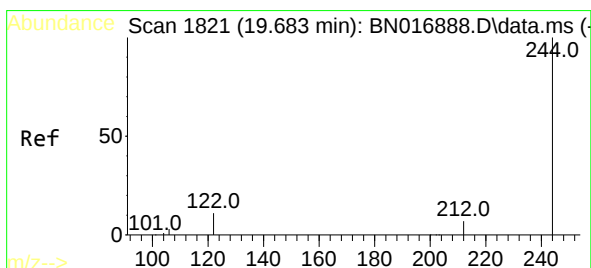
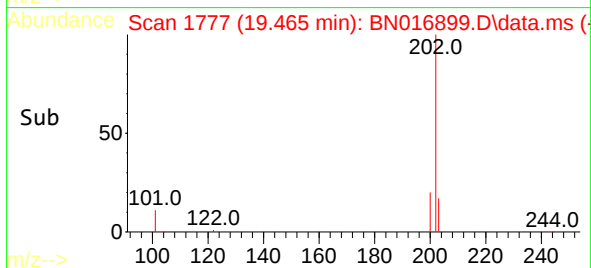
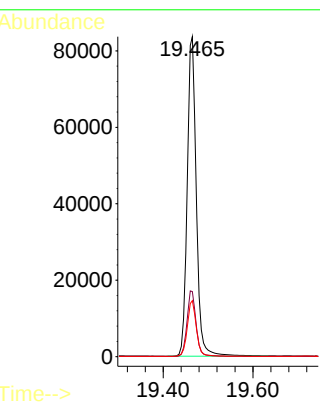
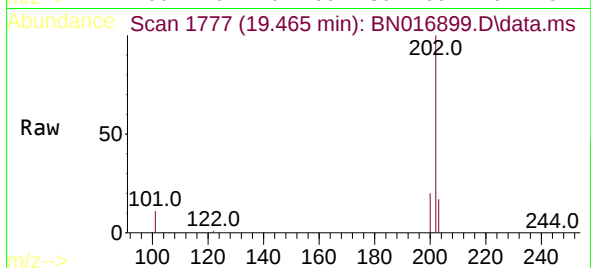
Tgt Ion:202 Resp: 118638

Ion Ratio Lower Upper

202 100

200 20.6 16.4 24.6

203 17.6 14.0 21.0



#31

Terphenyl-d14

Concen: 0.075 ng

RT: 19.683 min Scan# 1821

Delta R.T. 0.000 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

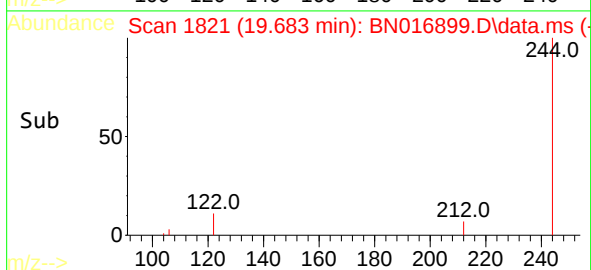
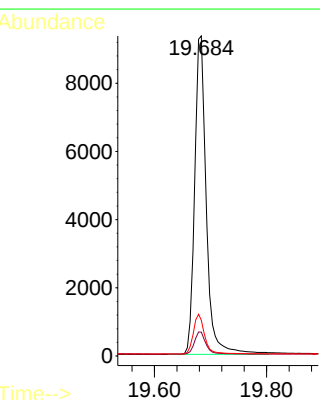
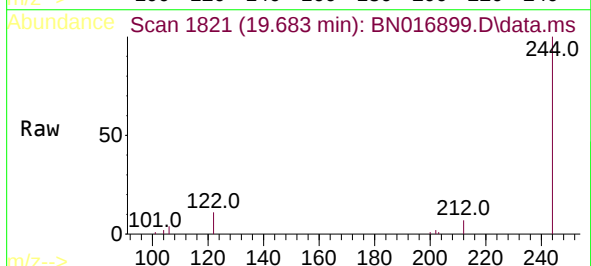
Tgt Ion:244 Resp: 13462

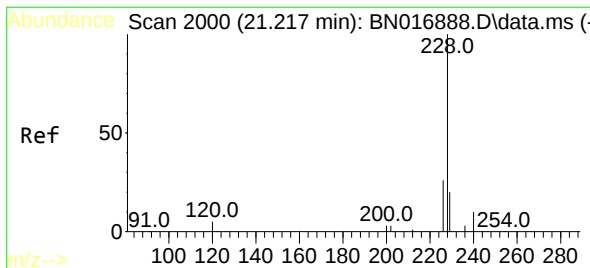
Ion Ratio Lower Upper

244 100

212 7.5 5.5 8.3

122 11.1 8.6 13.0





#32

Benzo(a)anthracene

Concen: 0.188 ng

RT: 21.217 min Scan# 2000

Delta R.T. 0.000 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

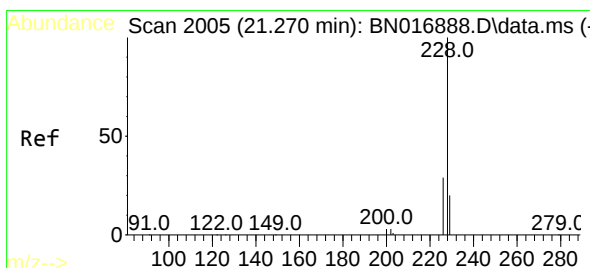
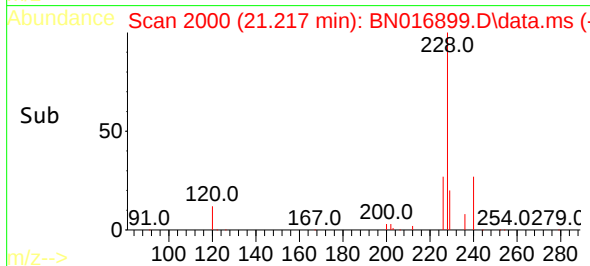
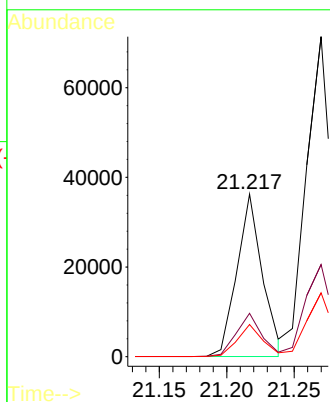
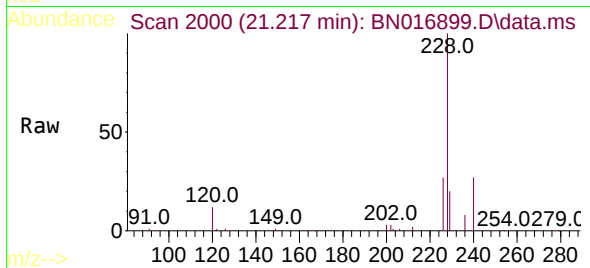
Tgt Ion:228 Resp: 47517

Ion Ratio Lower Upper

228 100

226 26.6 21.2 31.8

229 19.8 15.8 23.6



#33

Chrysene

Concen: 0.379 ng

RT: 21.270 min Scan# 2005

Delta R.T. 0.000 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

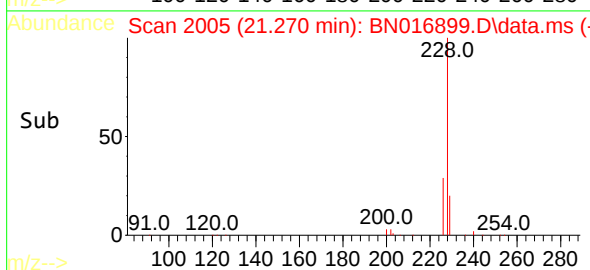
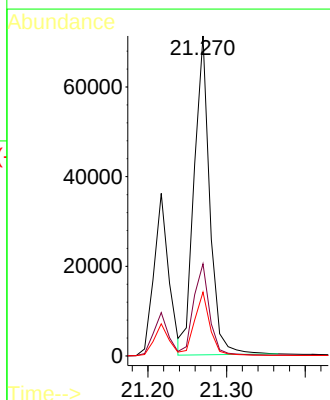
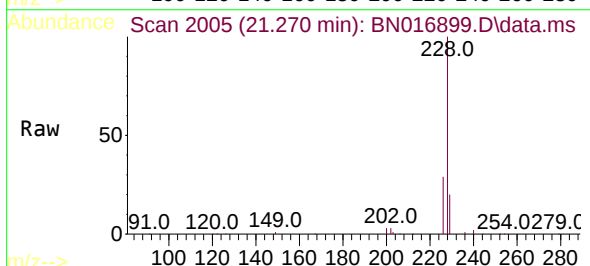
Tgt Ion:228 Resp: 98368

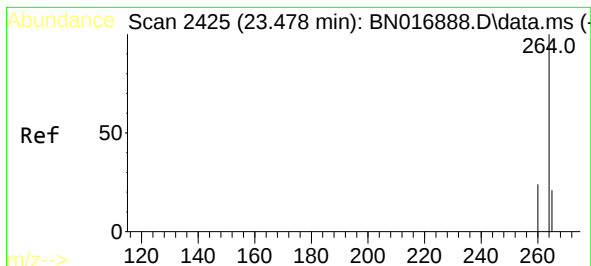
Ion Ratio Lower Upper

228 100

226 28.8 23.3 34.9

229 20.0 15.8 23.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.478 min Scan# 2425

Delta R.T. 0.000 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

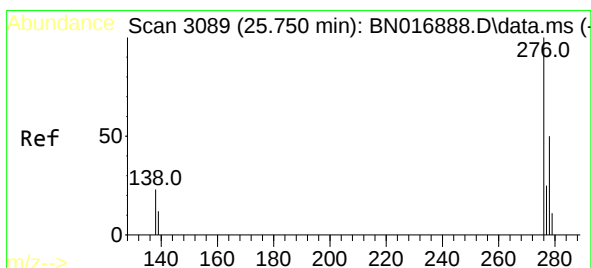
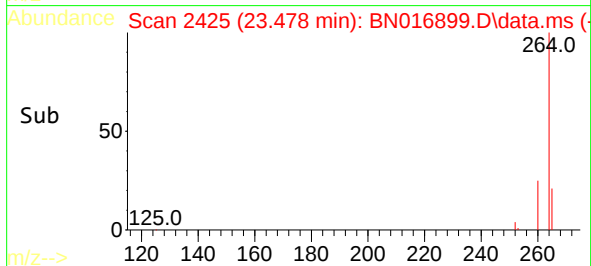
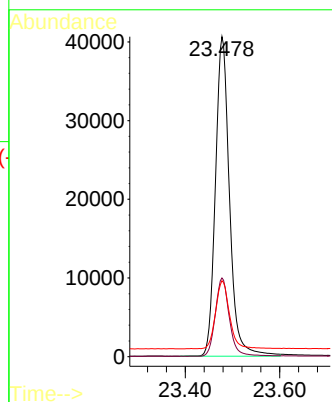
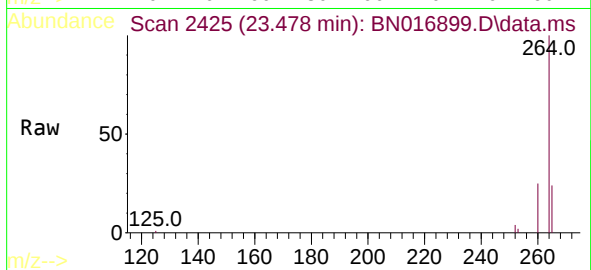
Tgt Ion:264 Resp: 84005

Ion Ratio Lower Upper

264 100

260 24.6 19.4 29.2

265 23.7 19.2 28.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.681 ng

RT: 25.747 min Scan# 3088

Delta R.T. -0.003 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

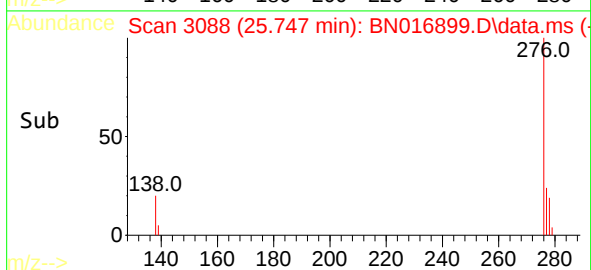
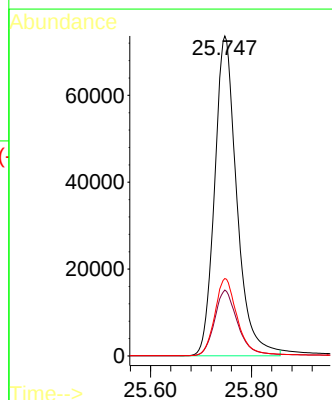
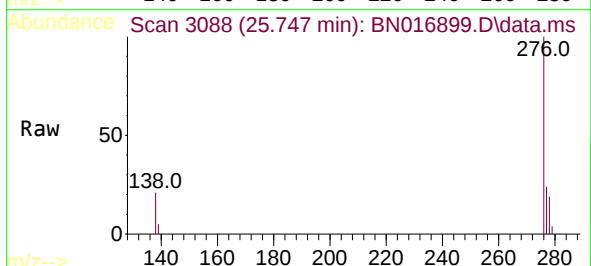
Tgt Ion:276 Resp: 224383

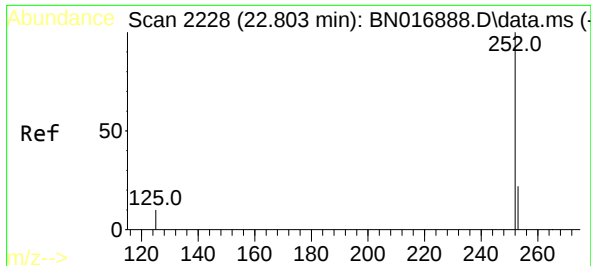
Ion Ratio Lower Upper

276 100

138 21.3 20.1 30.1

277 24.4 20.1 30.1

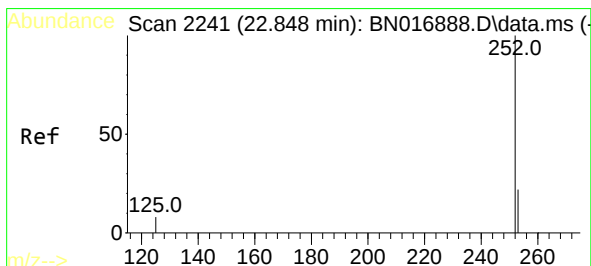
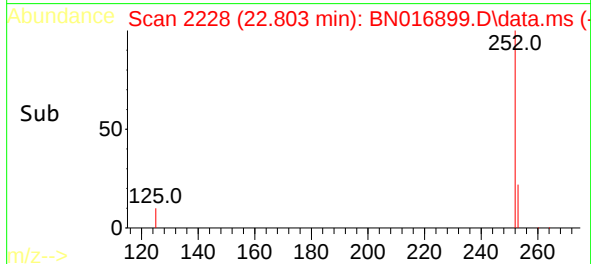
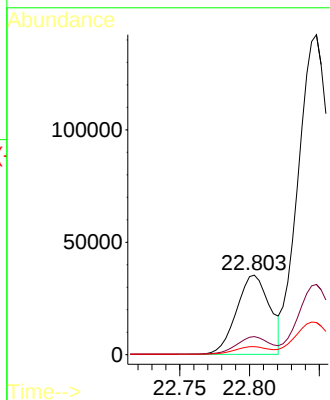
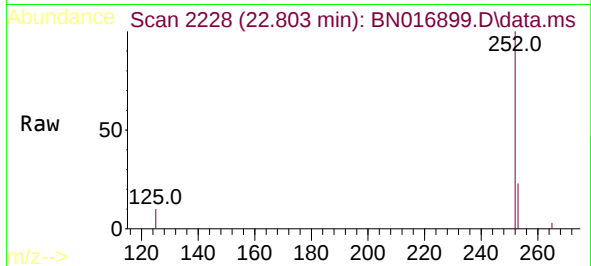




#37
Benzo(b)fluoranthene
Concen: 0.209 ng
RT: 22.803 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN016899.D
Acq: 12 Oct 2021 13:21

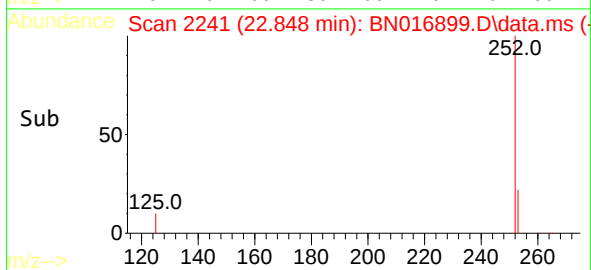
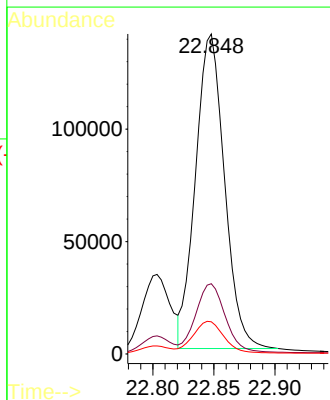
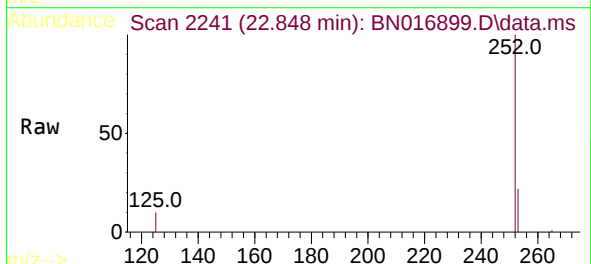
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

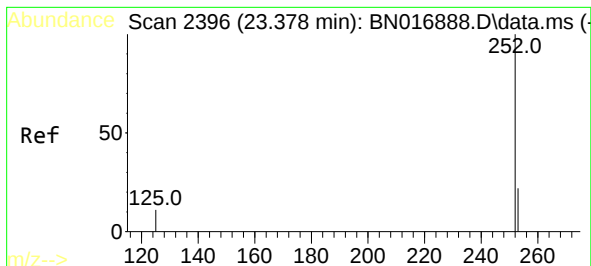
Tgt Ion:252 Resp: 58618
Ion Ratio Lower Upper
252 100
253 22.7 17.8 26.8
125 10.2 8.1 12.1



#38
Benzo(k)fluoranthene
Concen: 0.834 ng
RT: 22.848 min Scan# 2241
Delta R.T. 0.000 min
Lab File: BN016899.D
Acq: 12 Oct 2021 13:21

Tgt Ion:252 Resp: 231296
Ion Ratio Lower Upper
252 100
253 22.0 18.0 27.0
125 10.1 9.0 13.6





#39

Benzo(a)pyrene

Concen: 0.786 ng

RT: 23.378 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

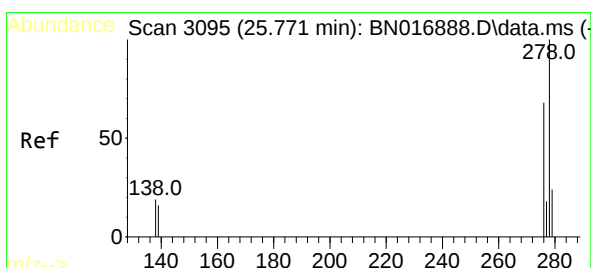
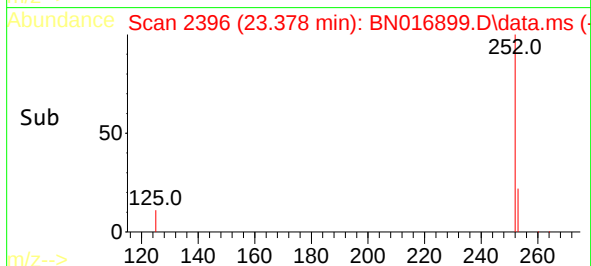
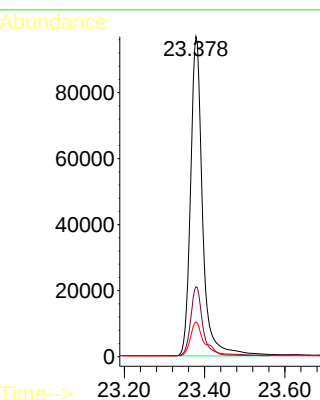
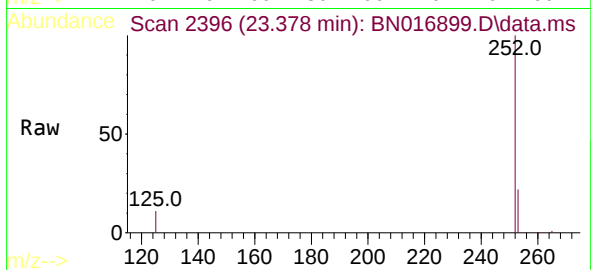
Tgt Ion:252 Resp: 200912

Ion Ratio Lower Upper

252 100

253 21.9 17.8 26.8

125 10.8 9.0 13.6



#40

Dibenzo(a,h)anthracene

Concen: 0.307 ng

RT: 25.771 min Scan# 3095

Delta R.T. 0.000 min

Lab File: BN016899.D

Acq: 12 Oct 2021 13:21

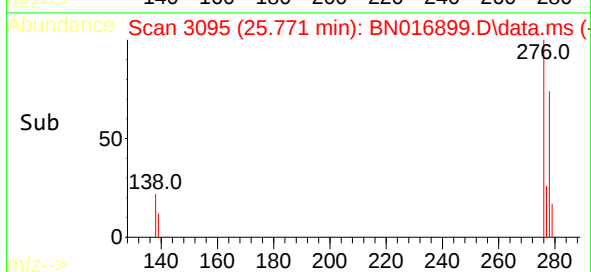
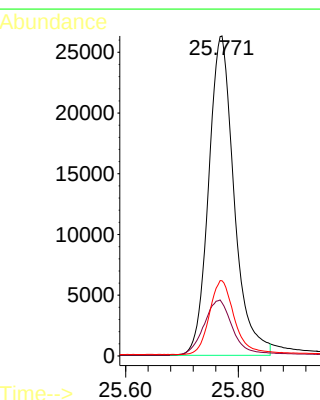
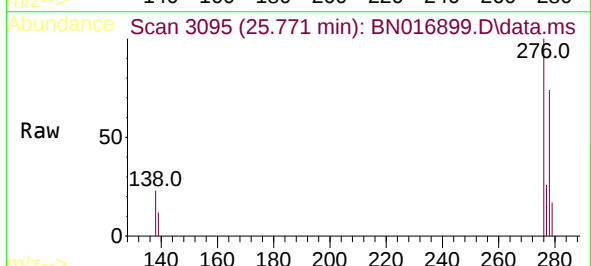
Tgt Ion:278 Resp: 82447

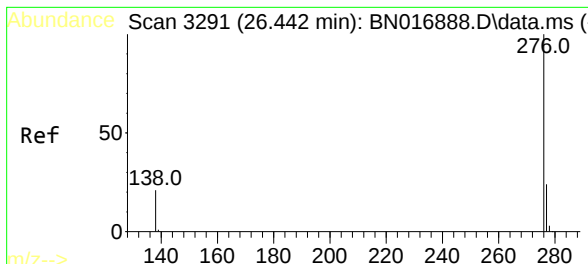
Ion Ratio Lower Upper

278 100

139 16.6 13.4 20.0

279 23.5 19.2 28.8





#41

Benzo(g,h,i)perylene

Concen: 0.301 ng

RT: 26.442 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN016899.D

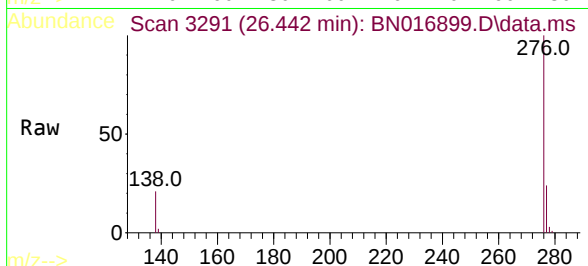
Acq: 12 Oct 2021 13:21

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL



Tgt Ion:276 Resp: 85314

Ion Ratio Lower Upper

276 100

277 23.9 19.0 28.6

138 20.8 16.7 25.1

