

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120723\
 Data File : BN029120.D
 Acq On : 08 Dec 2023 09:54
 Operator : MA/JU
 Sample : 05611-05
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

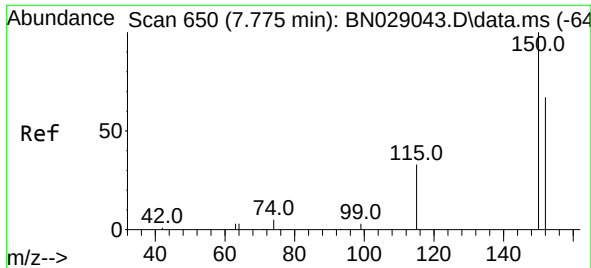
Instrument :
 BNA_N
 ClientSampleId :
 PE-5

Quant Time: Dec 08 10:35:21 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN120523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 06 00:49:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	1493	0.400	ng	0.04
7) Naphthalene-d8	10.605	136	3090	0.400	ng	0.04
13) Acenaphthene-d10	14.439	164	1936	0.400	ng	0.04
19) Phenanthrene-d10	17.184	188	4152	0.400	ng	# 0.04
29) Chrysene-d12	21.383	240	2433	0.400	ng	# 0.04
35) Perylene-d12	23.728	264	2184	0.400	ng	# 0.06
System Monitoring Compounds						
4) 2-Fluorophenol	5.420	112	609	0.180	ng	0.03
5) Phenol-d6	7.024	99	679	0.168	ng	0.04
8) Nitrobenzene-d5	8.993	82	646	0.173	ng	0.05
11) 2-Methylnaphthalene-d10	12.189	152	984	0.152	ng	0.04
14) 2,4,6-Tribromophenol	15.930	330	282	0.132	ng	0.04
15) 2-Fluorobiphenyl	13.070	172	2032	0.203	ng	0.04
27) Fluoranthene-d10	19.218	212	1976	0.151	ng	0.03
31) Terphenyl-d14	19.826	244	1491	0.242	ng	0.03
Target Compounds						Qvalue
2) 1,4-Dioxane	3.355	88	26	0.022	ng	# 1
9) Naphthalene	10.648	128	749	0.078	ng	# 85
12) 2-Methylnaphthalene	12.261	142	403	0.051	ng	95
16) Acenaphthylene	14.161	152	756	0.071	ng	99
17) Acenaphthene	14.503	154	3380	0.506	ng	98
18) Fluorene	15.487	166	4029	0.378	ng	99
25) Phenanthrene	17.221	178	80735	5.825	ng	99
26) Anthracene	17.320	178	22655	1.691	ng	96
28) Fluoranthene	19.250	202	193905	10.177	ng	# 99
30) Pyrene	19.613	202	152225	10.093	ng	# 95
32) Benzo(a)anthracene	21.365	228	68824	5.577	ng	100
33) Chrysene	21.418	228	50798	4.184	ng	99
34) Bis(2-ethylhexyl)phtha...	21.311	149	4125	0.542	ng	95
36) Indeno(1,2,3-cd)pyrene	26.149	276	27123	2.435	ng	99
37) Benzo(b)fluoranthene	23.020	252	62457	5.327	ng	92
39) Benzo(a)pyrene	23.778	252	10588	1.091	ng	98
40) Dibenzo(a,h)anthracene	26.169	278	6976	0.812	ng	92
41) Benzo(g,h,i)perylene	26.897	276	23923	2.546	ng	98

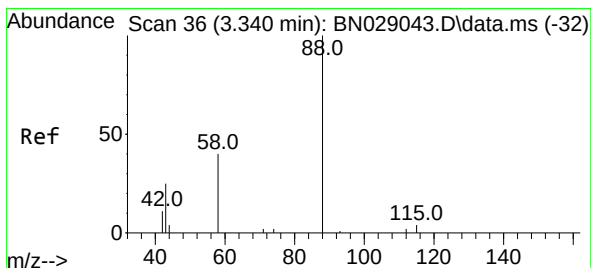
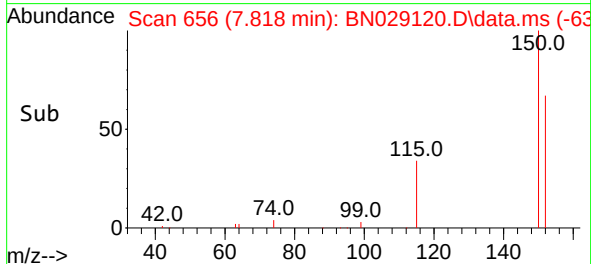
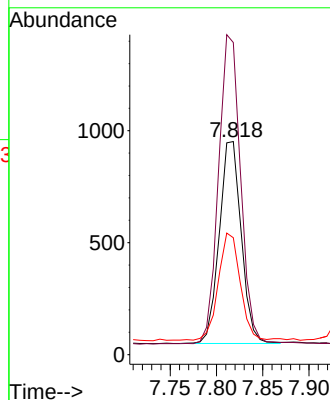
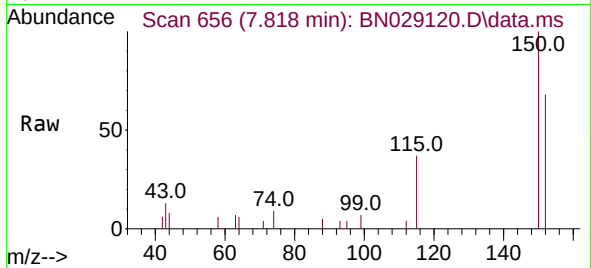
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.818 min Scan# 61
 Delta R.T. 0.043 min
 Lab File: BN029120.D
 Acq: 08 Dec 2023 09:54

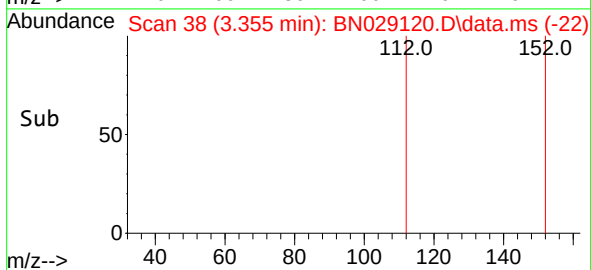
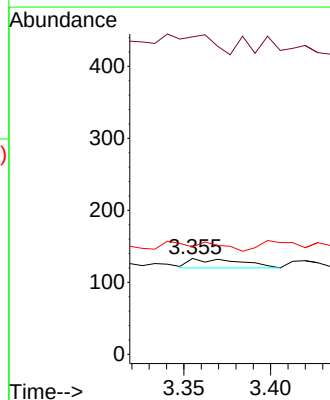
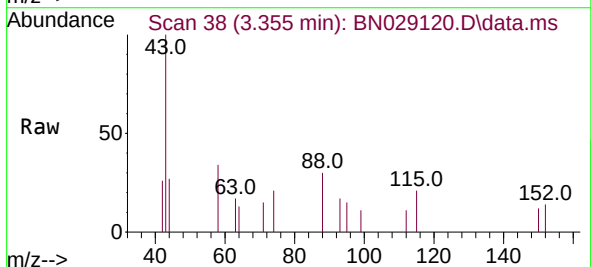
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 ClientSampleId :
 PE-5

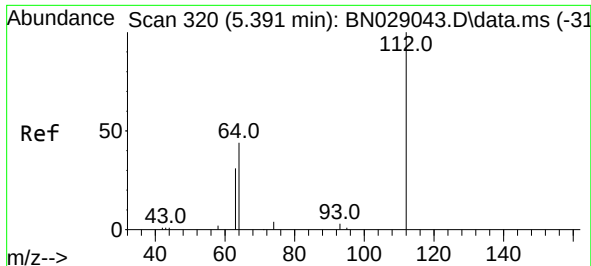
Tgt Ion:152 Resp: 1493
 Ion Ratio Lower Upper
 152 100
 150 146.4 116.2 174.4
 115 54.8 45.1 67.7



#2
 1,4-Dioxane
 Concen: 0.022 ng
 RT: 3.355 min Scan# 38
 Delta R.T. 0.015 min
 Lab File: BN029120.D
 Acq: 08 Dec 2023 09:54

Tgt Ion: 88 Resp: 26
 Ion Ratio Lower Upper
 88 100
 43 192.3 15.6 23.4#
 58 38.5 33.2 49.8

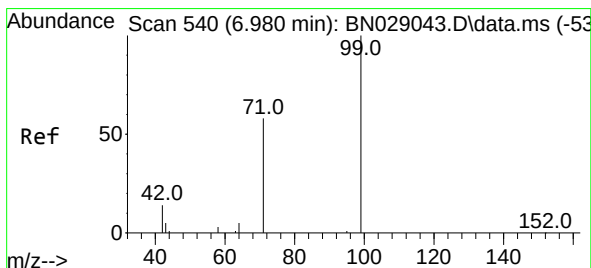
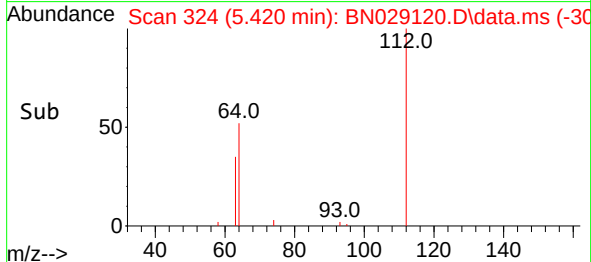
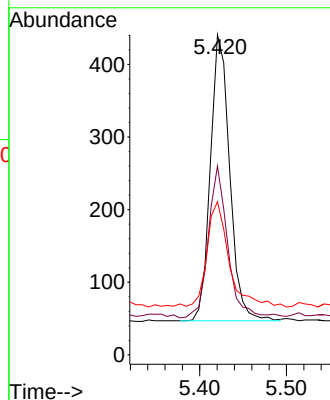
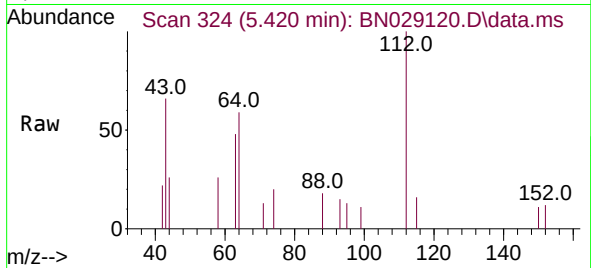




#4
2-Fluorophenol
Concen: 0.180 ng
RT: 5.420 min Scan# 31
Delta R.T. 0.029 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

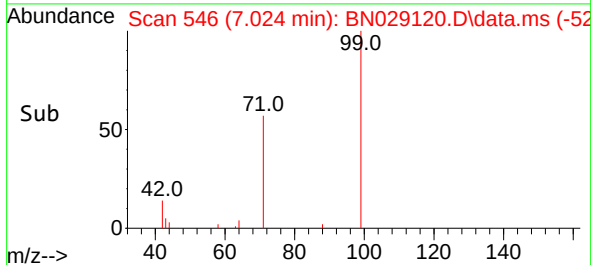
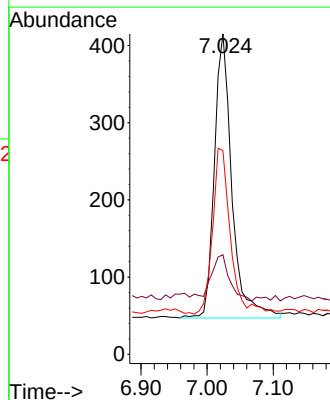
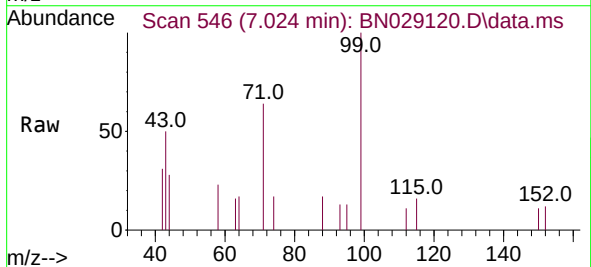
Instrument :
BNA_N
ClientSampleId :
PE-5

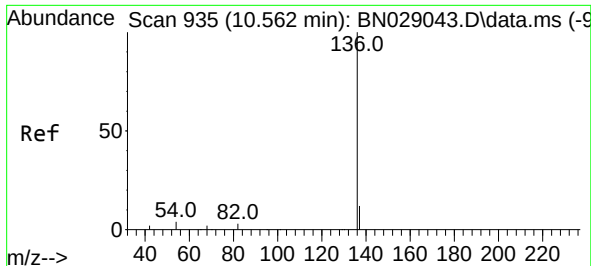
Tgt Ion:112 Resp: 609
Ion Ratio Lower Upper
112 100
64 53.7 37.0 55.6
63 42.0 29.0 43.6



#5
Phenol-d6
Concen: 0.168 ng
RT: 7.024 min Scan# 546
Delta R.T. 0.043 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

Tgt Ion: 99 Resp: 679
Ion Ratio Lower Upper
99 100
42 16.8 13.4 20.2
71 59.8 47.8 71.6

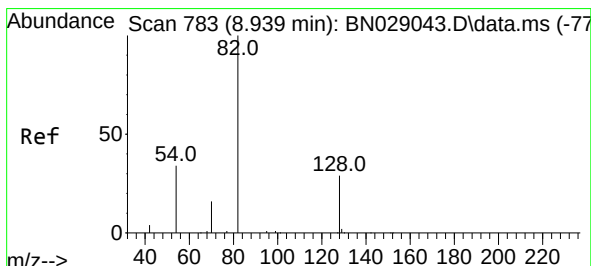
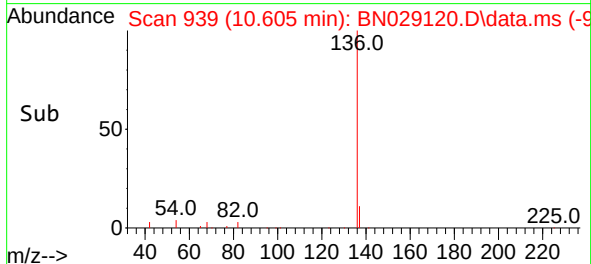
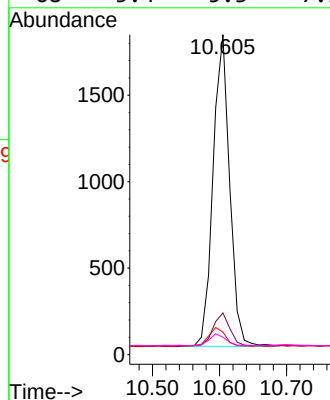
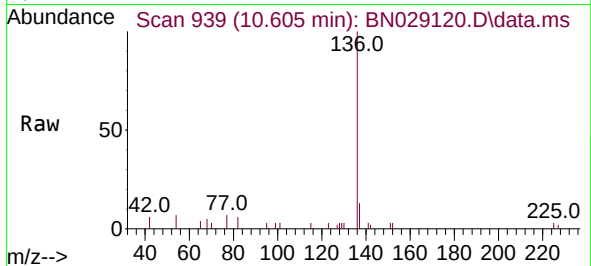




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.605 min Scan# 91
Delta R.T. 0.043 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

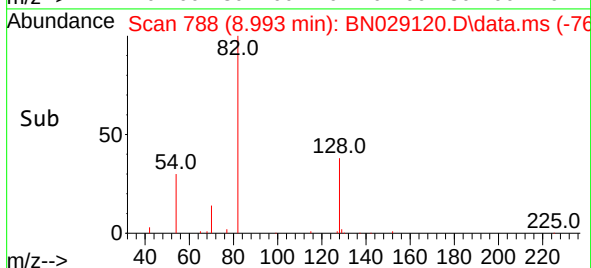
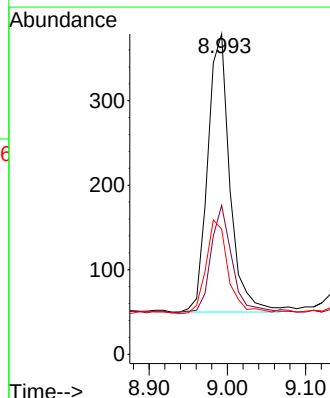
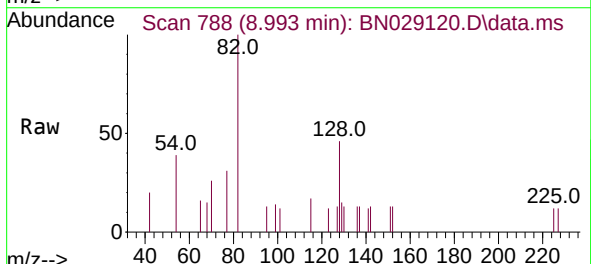
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ClientSampleId :
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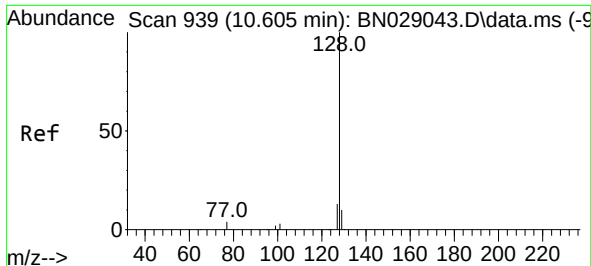
Tgt Ion:	136	Resp:	3090
Ion	Ratio	Lower	Upper
136	100		
137	13.0	11.9	17.9
54	7.0	6.4	9.6
68	5.4	5.3	7.9



#8
Nitrobenzene-d5
Concen: 0.173 ng
RT: 8.993 min Scan# 788
Delta R.T. 0.053 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

Tgt Ion:	82	Resp:	646
Ion	Ratio	Lower	Upper
82	100		
128	46.4	28.2	42.4#
54	39.1	32.1	48.1

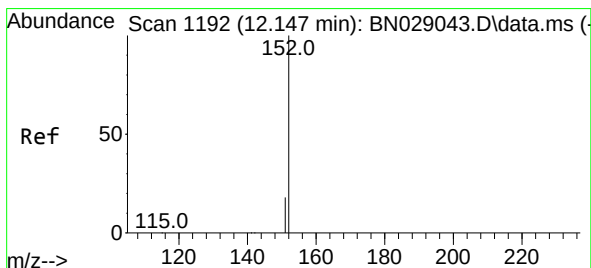
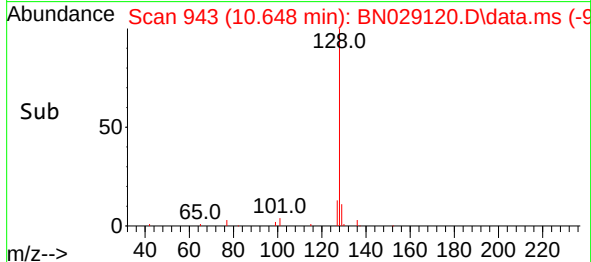
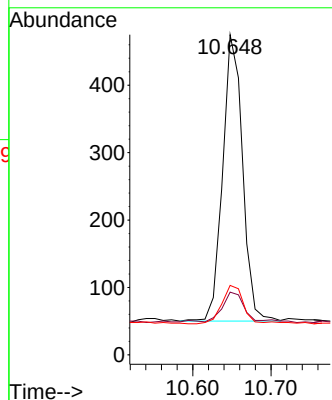
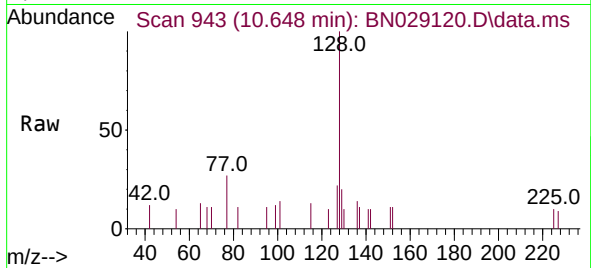




#9
Naphthalene
Concen: 0.078 ng
RT: 10.648 min Scan# 94
Delta R.T. 0.043 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

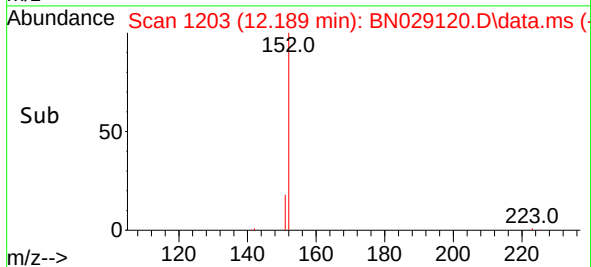
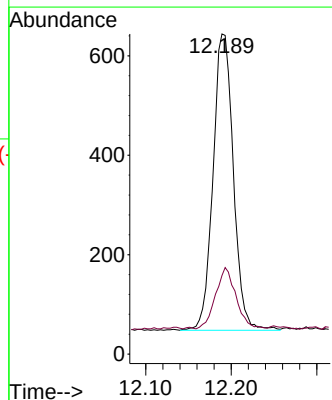
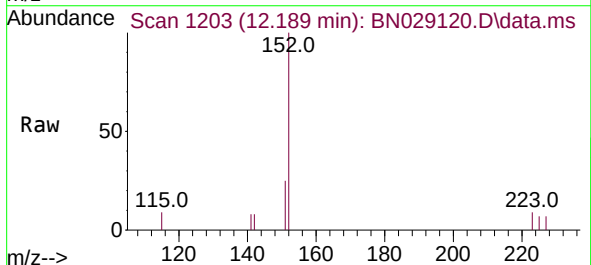
Instrument :
BNA_N
ClientSampleId :
PE-5

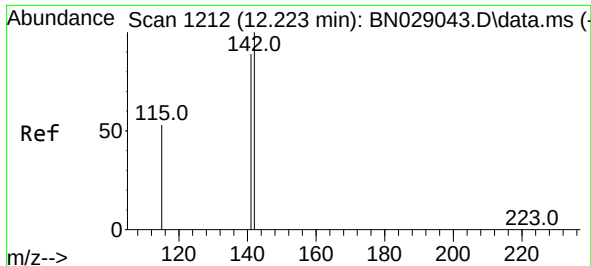
Tgt Ion:128 Resp: 749
Ion Ratio Lower Upper
128 100
129 19.6 10.5 15.7#
127 21.7 12.5 18.7#



#11
2-Methylnaphthalene-d10
Concen: 0.152 ng
RT: 12.189 min Scan# 1203
Delta R.T. 0.042 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

Tgt Ion:152 Resp: 984
Ion Ratio Lower Upper
152 100
151 20.9 17.4 26.0

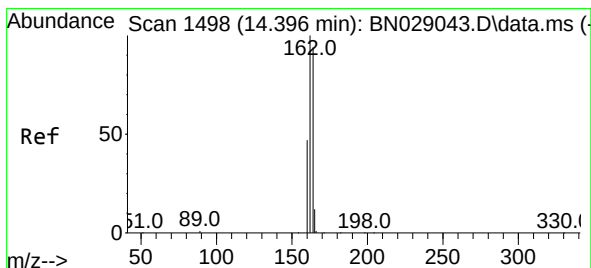
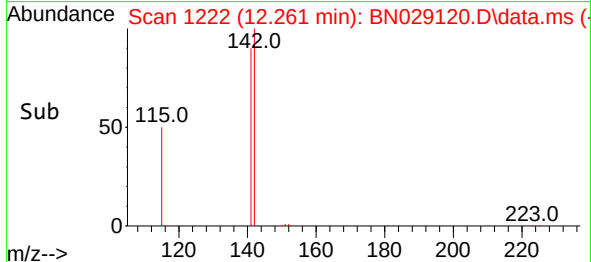
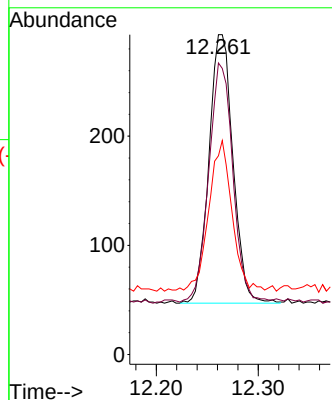
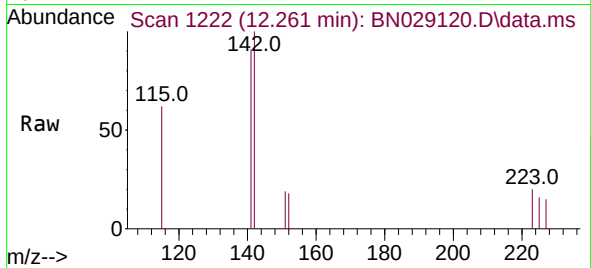




#12
2-Methylnaphthalene
Concen: 0.051 ng
RT: 12.261 min Scan# 11
Delta R.T. 0.038 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

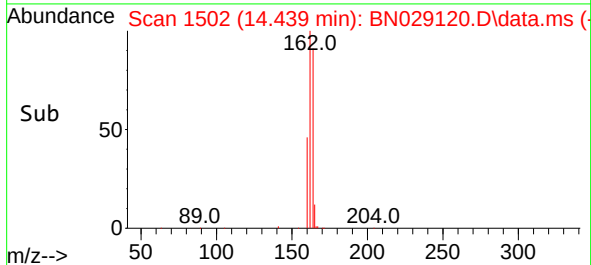
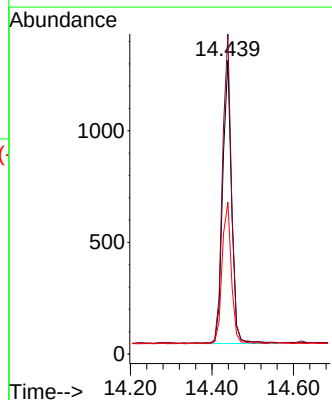
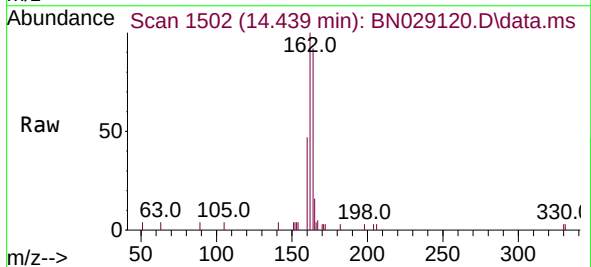
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ClientSampleId :
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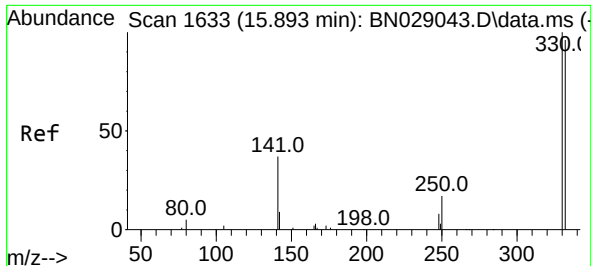
Tgt Ion:142 Resp: 403
Ion Ratio Lower Upper
142 100
141 91.1 71.1 106.7
115 62.1 44.6 66.8



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.439 min Scan# 1502
Delta R.T. 0.043 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

Tgt Ion:164 Resp: 1936
Ion Ratio Lower Upper
164 100
162 109.0 85.0 127.6
160 51.7 41.3 61.9

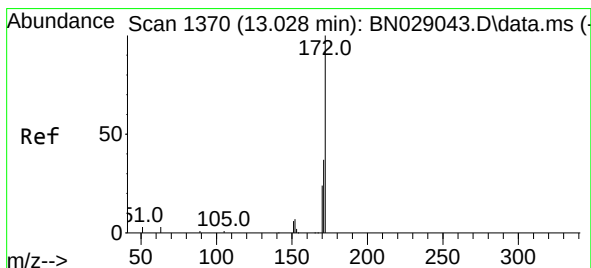
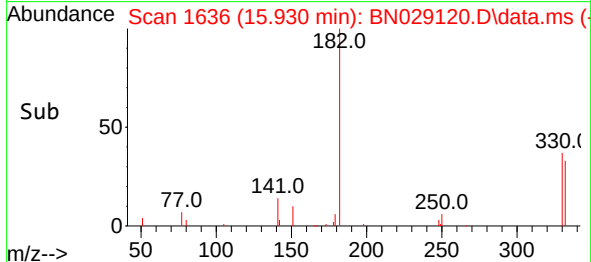
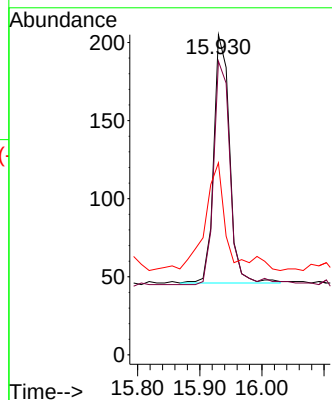
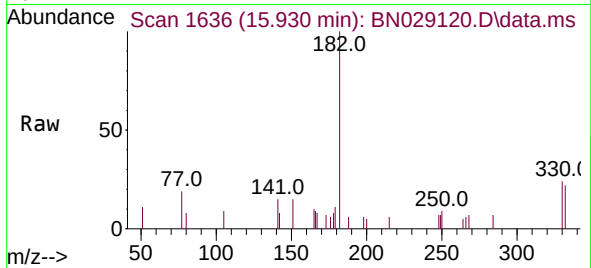




#14
2,4,6-Tribromophenol
Concen: 0.132 ng
RT: 15.930 min Scan# 1636
Delta R.T. 0.037 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

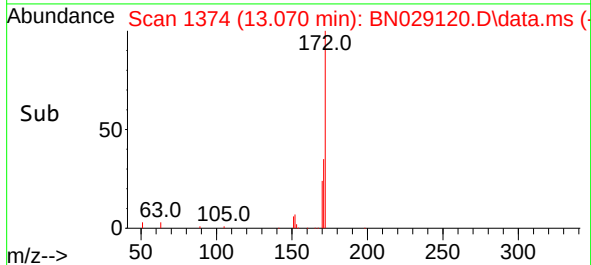
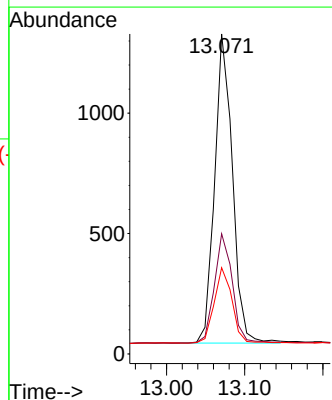
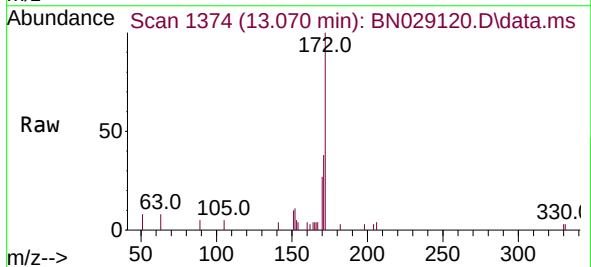
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ClientSampleId :
PE-5

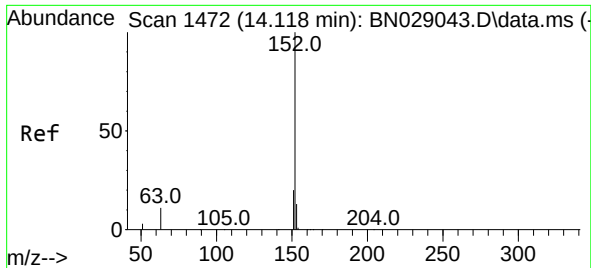
Tgt Ion:330 Resp: 282
Ion Ratio Lower Upper
330 100
332 93.6 78.8 118.2
141 51.8 28.7 43.1#



#15
2-Fluorobiphenyl
Concen: 0.203 ng
RT: 13.070 min Scan# 1374
Delta R.T. 0.043 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

Tgt Ion:172 Resp: 2032
Ion Ratio Lower Upper
172 100
171 37.5 30.1 45.1
170 26.9 20.3 30.5

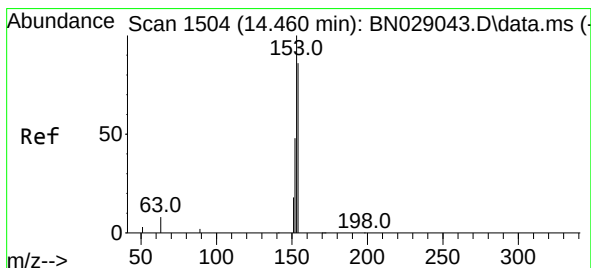
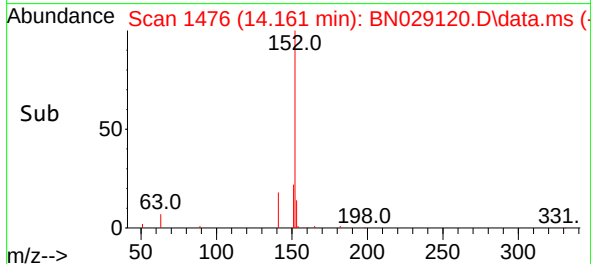
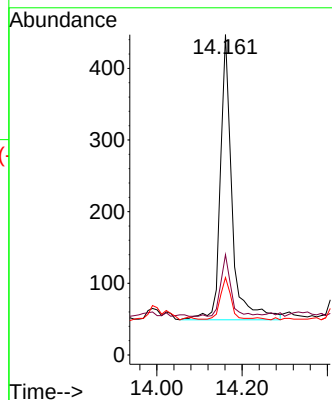
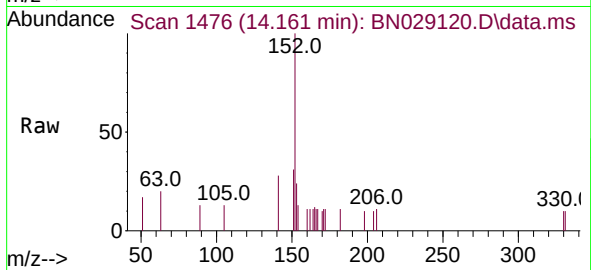




#16
Acenaphthylene
Concen: 0.071 ng
RT: 14.161 min Scan# 1476
Delta R.T. 0.043 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

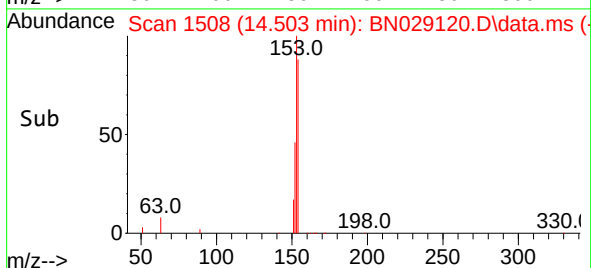
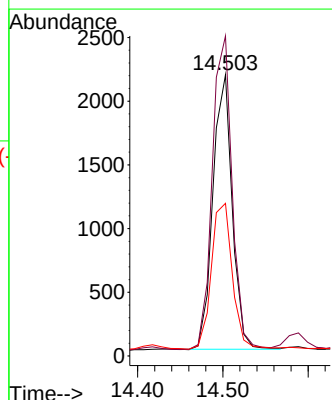
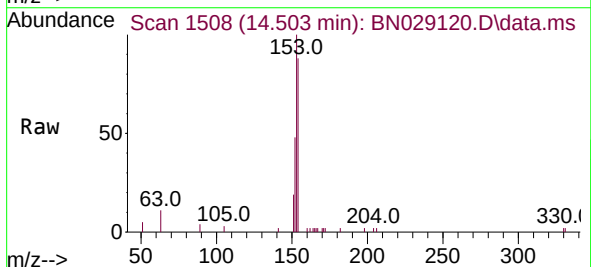
Instrument :
BNA_N
ClientSampleId :
PE-5

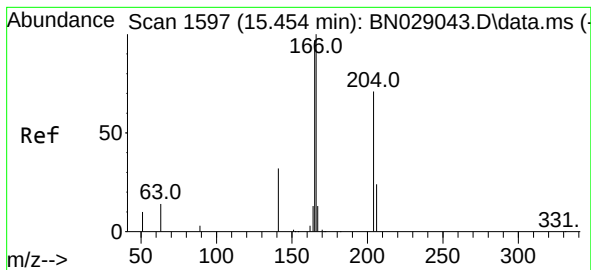
Tgt Ion:152 Resp: 756
Ion Ratio Lower Upper
152 100
151 19.0 15.8 23.6
153 13.1 10.3 15.5



#17
Acenaphthene
Concen: 0.506 ng
RT: 14.503 min Scan# 1508
Delta R.T. 0.043 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

Tgt Ion:154 Resp: 3380
Ion Ratio Lower Upper
154 100
153 117.9 93.0 139.6
152 57.9 44.2 66.4





#18

Fluorene

Concen: 0.378 ng

RT: 15.487 min Scan# 1

Delta R.T. 0.032 min

Lab File: BN029120.D

Acq: 08 Dec 2023 09:54

Instrument :

BNA_N

ClientSampleId :

PE-5

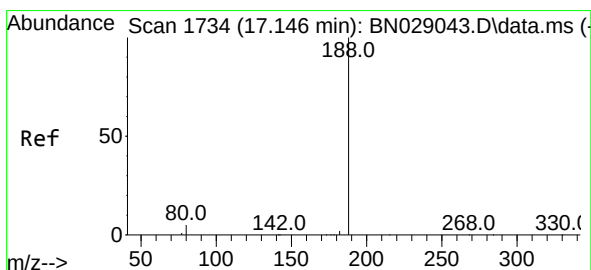
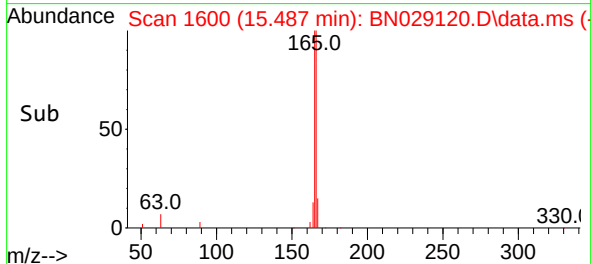
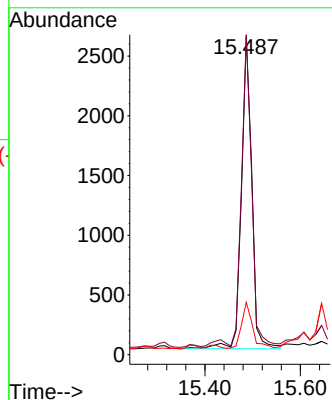
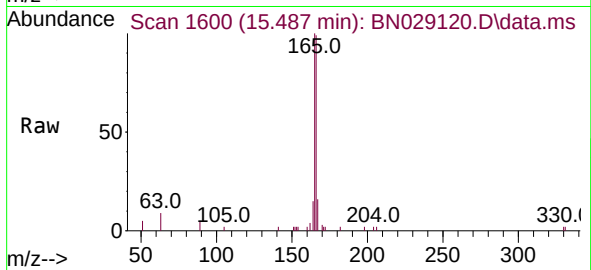
Tgt Ion:166 Resp: 4029

Ion Ratio Lower Upper

166 100

165 99.3 80.2 120.4

167 15.5 11.0 16.4



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.184 min Scan# 1737

Delta R.T. 0.037 min

Lab File: BN029120.D

Acq: 08 Dec 2023 09:54

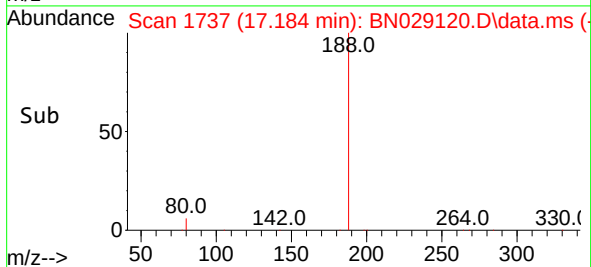
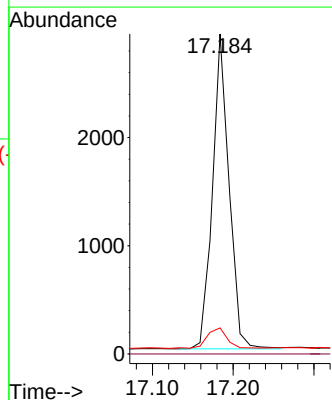
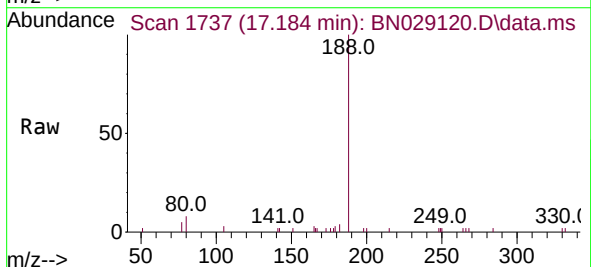
Tgt Ion:188 Resp: 4152

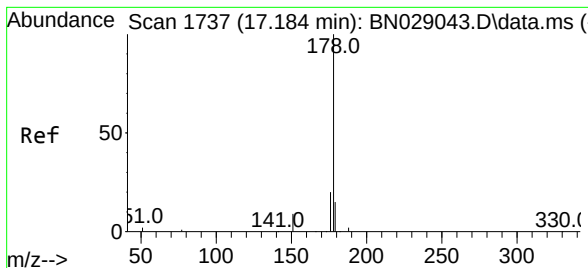
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.2 5.4 8.0#





#25

Phenanthrene

Concen: 5.825 ng

RT: 17.221 min Scan# 1740

Delta R.T. 0.037 min

Lab File: BN029120.D

Acq: 08 Dec 2023 09:54

Instrument :

BNA_N

ClientSampleId :

PE-5

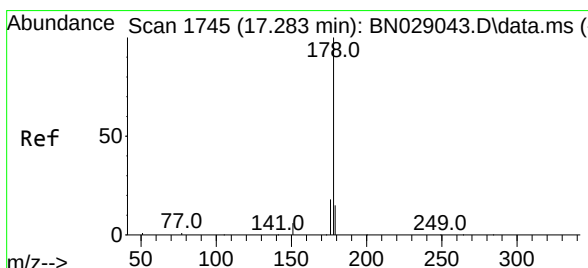
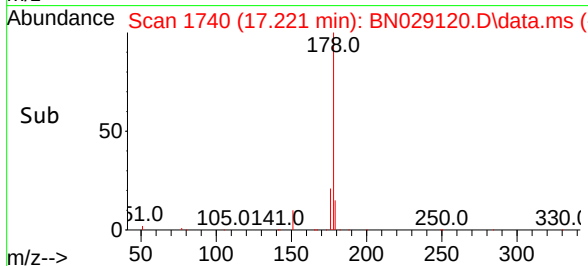
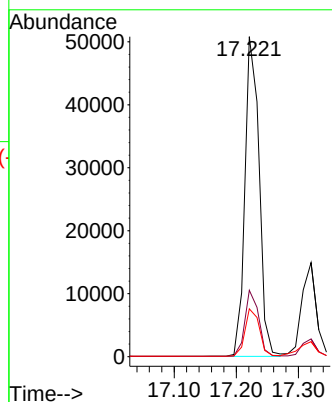
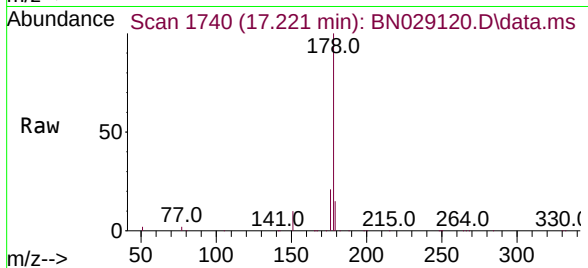
Tgt Ion:178 Resp: 80735

Ion Ratio Lower Upper

178 100

176 20.1 15.6 23.4

179 15.1 12.6 18.8



#26

Anthracene

Concen: 1.691 ng

RT: 17.320 min Scan# 1748

Delta R.T. 0.037 min

Lab File: BN029120.D

Acq: 08 Dec 2023 09:54

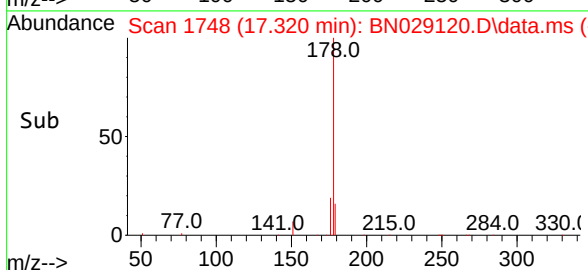
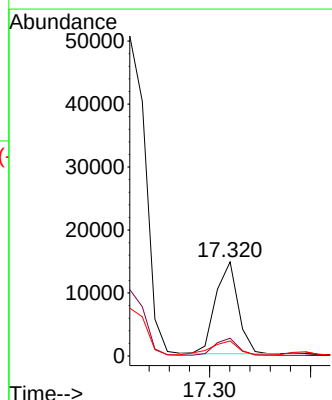
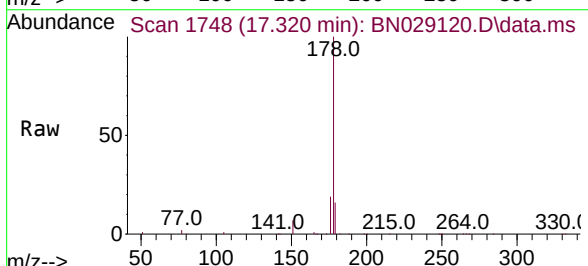
Tgt Ion:178 Resp: 22655

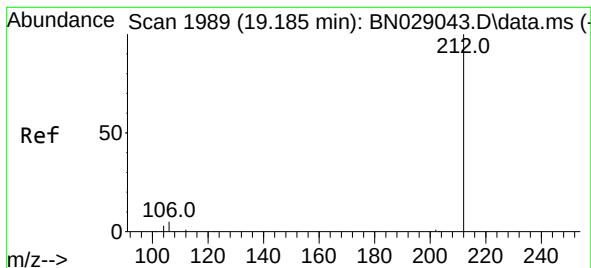
Ion Ratio Lower Upper

178 100

176 20.1 15.0 22.4

179 18.1 12.6 19.0





#27

Fluoranthene-d10

Concen: 0.151 ng

RT: 19.218 min Scan# 1996

Delta R.T. 0.033 min

Lab File: BN029120.D

Acq: 08 Dec 2023 09:54

Instrument :

BNA_N

ClientSampleId :

PE-5

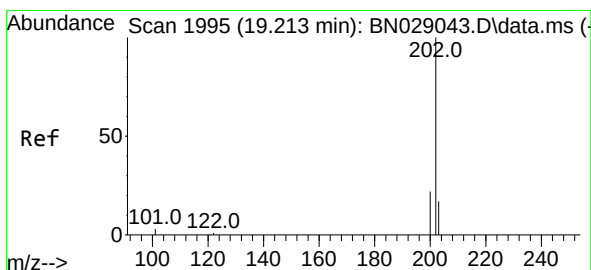
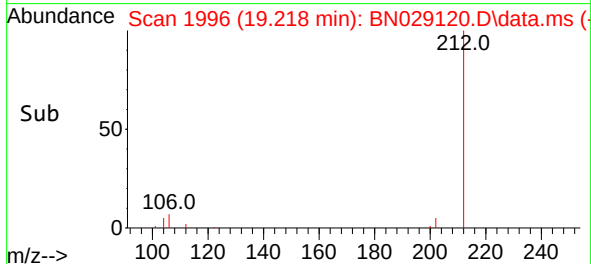
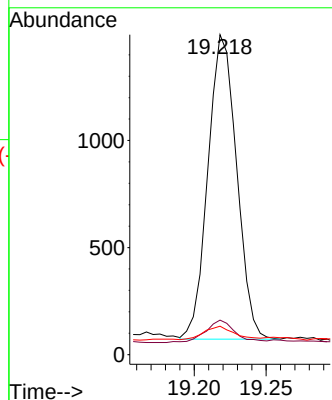
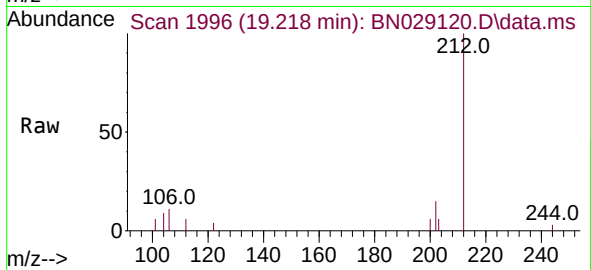
Tgt Ion:212 Resp: 1976

Ion Ratio Lower Upper

212 100

106 7.5 3.9 5.9#

104 4.6 2.6 3.8#



#28

Fluoranthene

Concen: 10.177 ng

RT: 19.250 min Scan# 2003

Delta R.T. 0.037 min

Lab File: BN029120.D

Acq: 08 Dec 2023 09:54

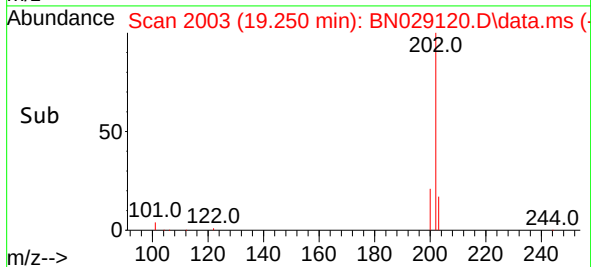
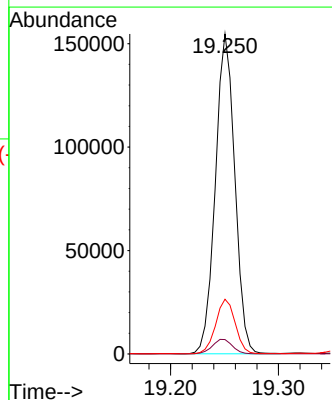
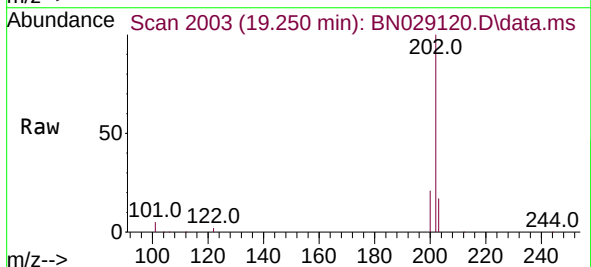
Tgt Ion:202 Resp: 193905

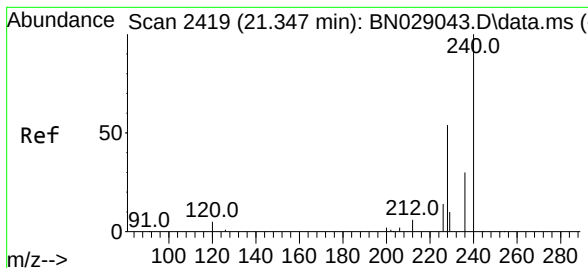
Ion Ratio Lower Upper

202 100

101 4.7 3.0 4.6#

203 17.1 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.383 min Scan# 2419

Delta R.T. 0.036 min

Lab File: BN029120.D

Acq: 08 Dec 2023 09:54

Instrument :

BNA_N

ClientSampleId :

PE-5

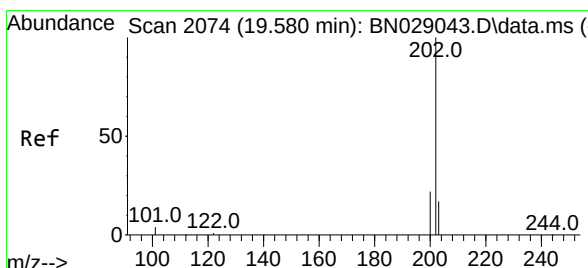
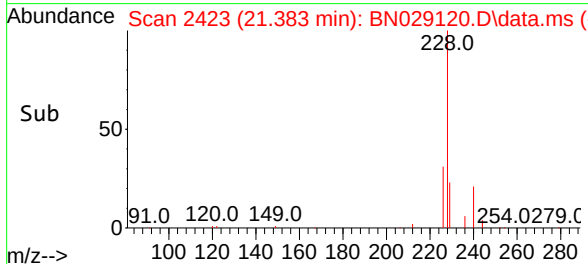
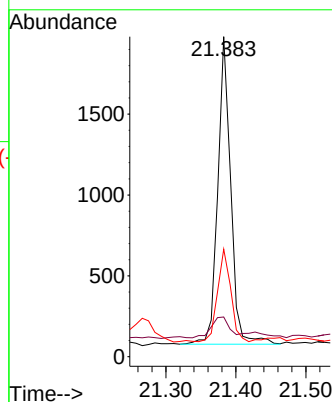
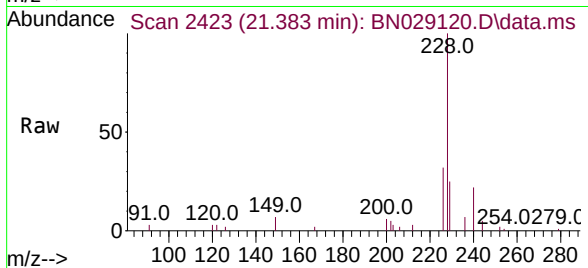
Tgt Ion:240 Resp: 2433

Ion Ratio Lower Upper

240 100

120 12.4 6.7 10.1#

236 33.6 25.7 38.5



#30

Pyrene

Concen: 10.093 ng

RT: 19.613 min Scan# 2081

Delta R.T. 0.033 min

Lab File: BN029120.D

Acq: 08 Dec 2023 09:54

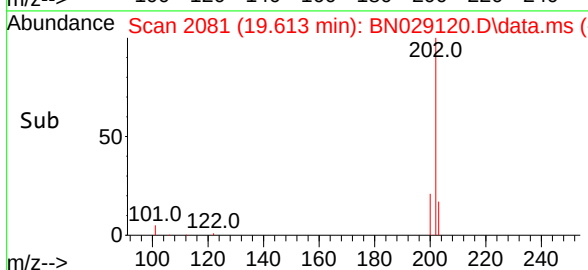
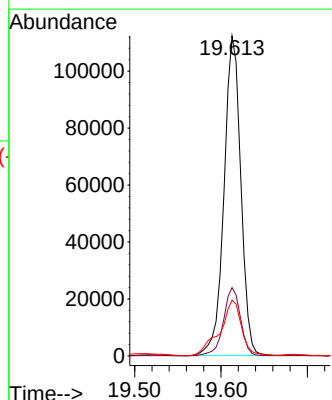
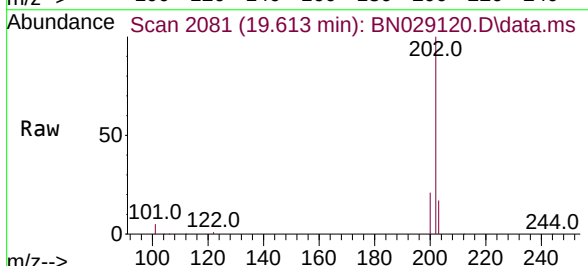
Tgt Ion:202 Resp: 152225

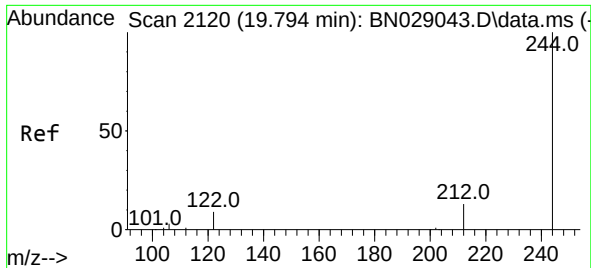
Ion Ratio Lower Upper

202 100

200 21.6 17.0 25.6

203 22.2 14.2 21.4#

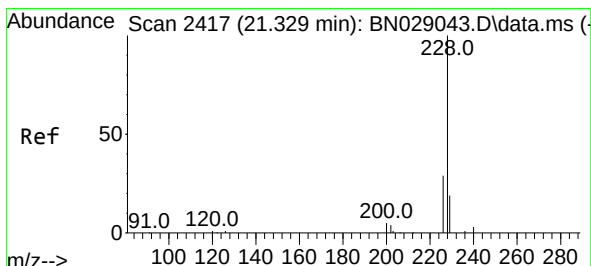
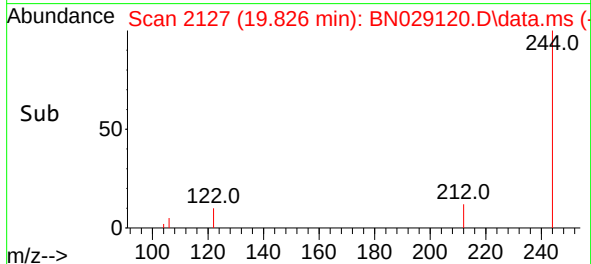
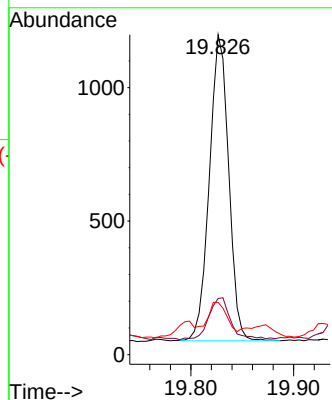
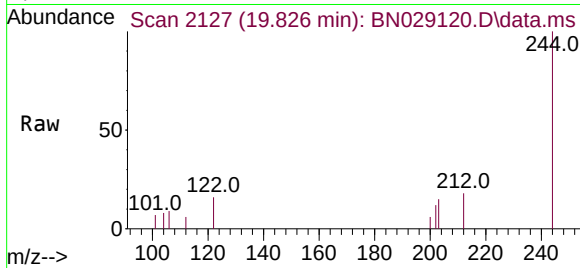




#31
Terphenyl-d14
Concen: 0.242 ng
RT: 19.826 min Scan# 21
Delta R.T. 0.033 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

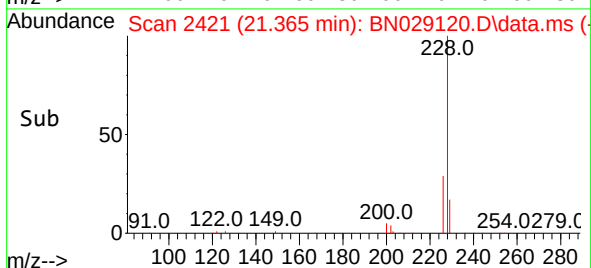
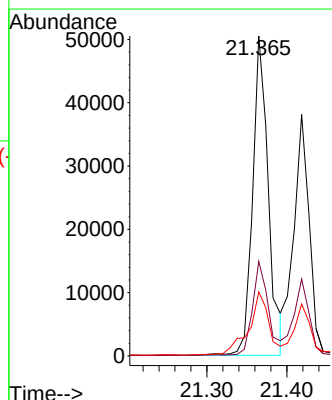
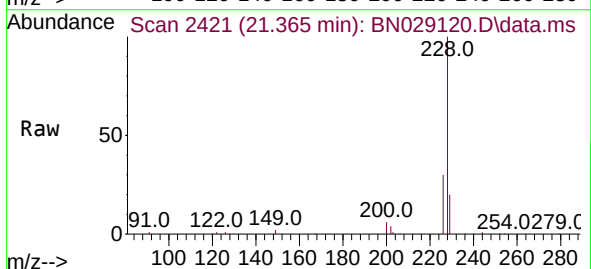
Instrument :
BNA_N
ClientSampleId :
PE-5

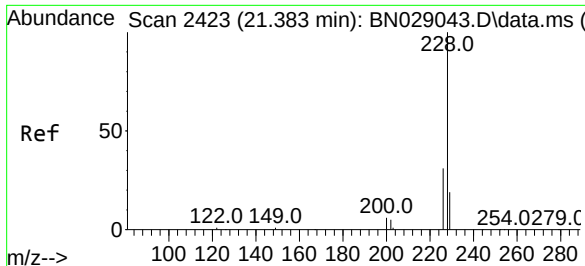
Tgt Ion:244 Resp: 1491
Ion Ratio Lower Upper
244 100
212 17.5 11.6 17.4#
122 16.4 8.2 12.4#



#32
Benzo(a)anthracene
Concen: 5.577 ng
RT: 21.365 min Scan# 2421
Delta R.T. 0.036 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

Tgt Ion:228 Resp: 68824
Ion Ratio Lower Upper
228 100
226 29.5 23.8 35.6
229 20.0 16.0 24.0





#33

Chrysene

Concen: 4.184 ng

RT: 21.418 min Scan# 2415

Delta R.T. 0.036 min

Lab File: BN029120.D

Acq: 08 Dec 2023 09:54

Instrument :

BNA_N

ClientSampleId :

PE-5

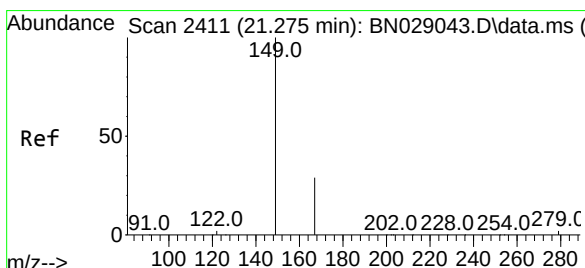
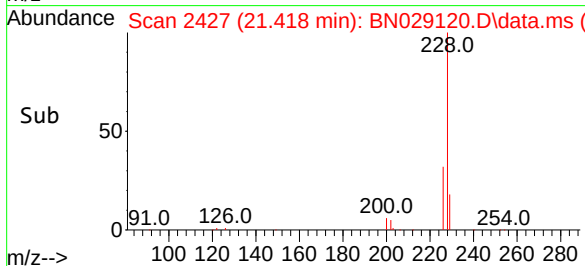
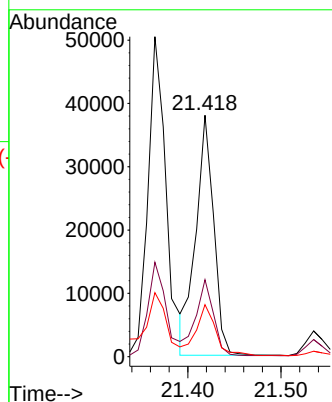
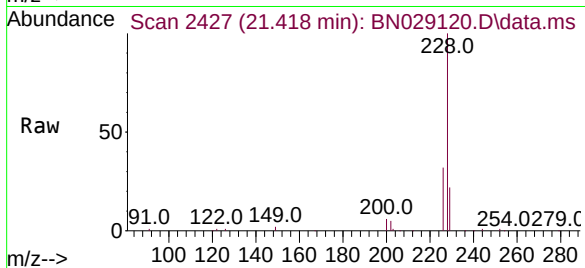
Tgt Ion:228 Resp: 50798

Ion Ratio Lower Upper

228 100

226 31.9 25.4 38.0

229 21.5 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.542 ng

RT: 21.311 min Scan# 2415

Delta R.T. 0.036 min

Lab File: BN029120.D

Acq: 08 Dec 2023 09:54

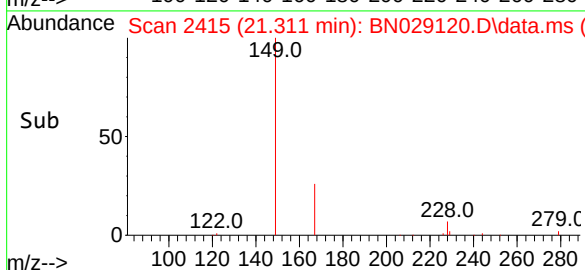
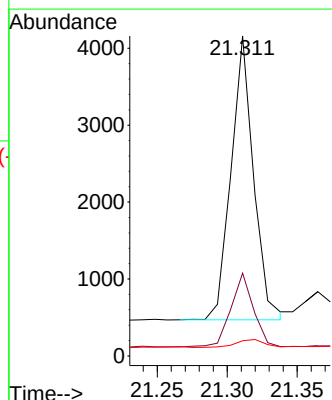
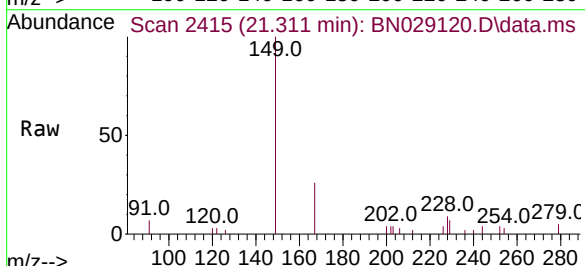
Tgt Ion:149 Resp: 4125

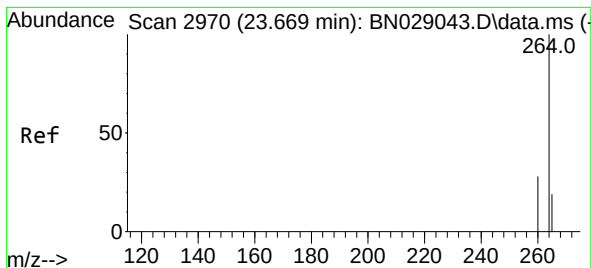
Ion Ratio Lower Upper

149 100

167 26.1 23.4 35.2

279 3.9 3.4 5.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.728 min Scan# 2990

Delta R.T. 0.059 min

Lab File: BN029120.D

Acq: 08 Dec 2023 09:54

Instrument :

BNA_N

ClientSampleId :

PE-5

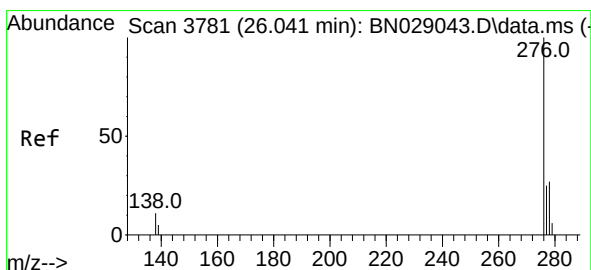
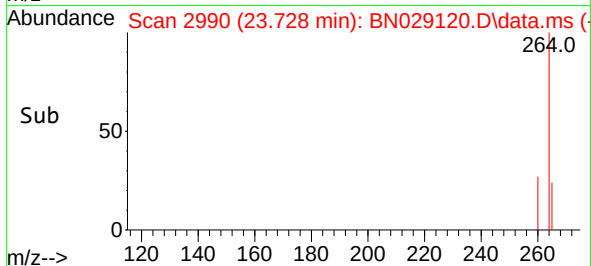
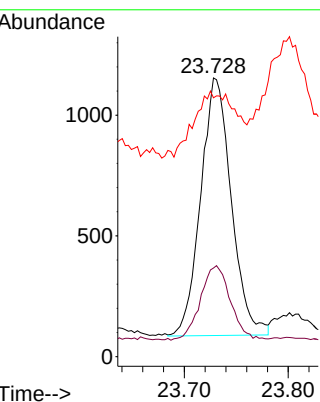
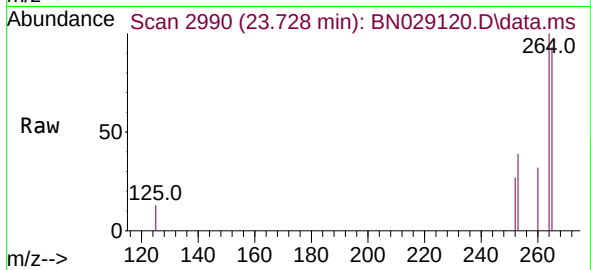
Tgt Ion:264 Resp: 2184

Ion Ratio Lower Upper

264 100

260 31.8 23.9 35.9

265 92.9 52.7 79.1#



#36

Indeno(1,2,3-cd)pyrene

Concen: 2.435 ng

RT: 26.149 min Scan# 3818

Delta R.T. 0.108 min

Lab File: BN029120.D

Acq: 08 Dec 2023 09:54

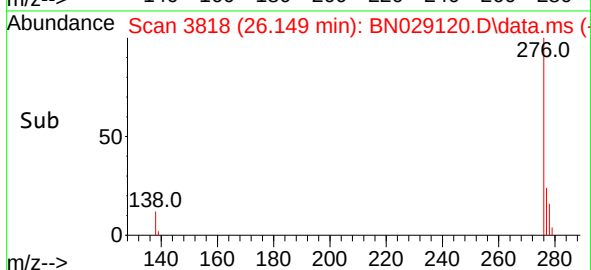
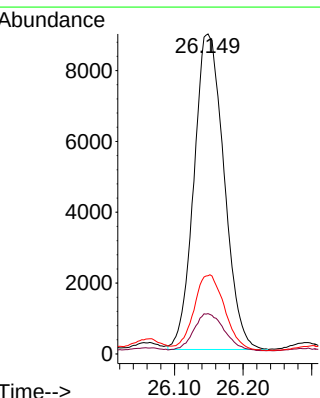
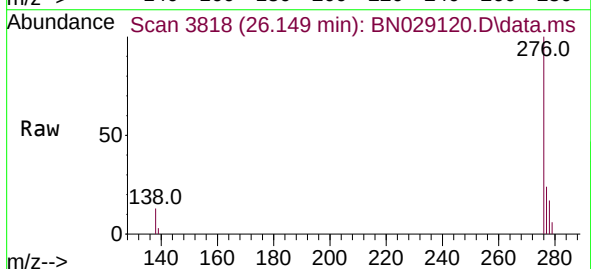
Tgt Ion:276 Resp: 27123

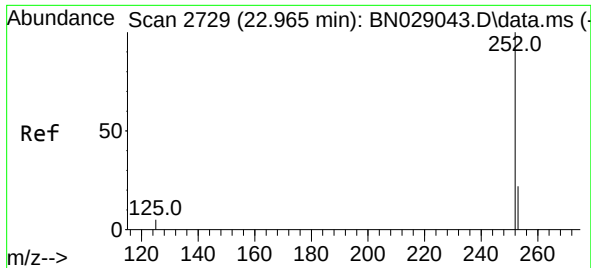
Ion Ratio Lower Upper

276 100

138 12.2 9.6 14.4

277 24.5 19.4 29.0

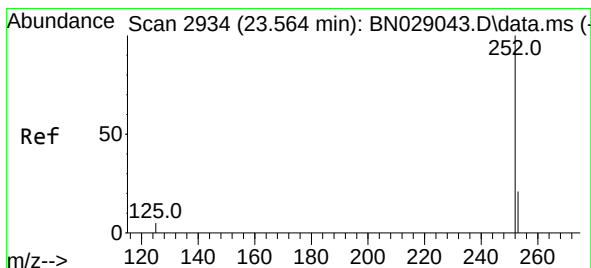
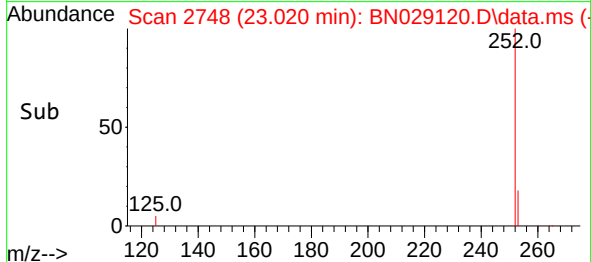
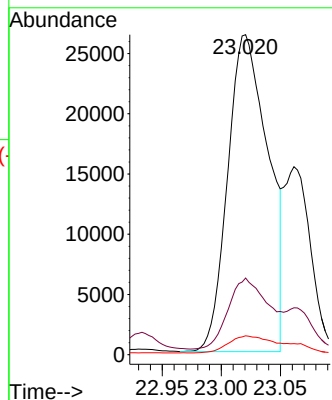
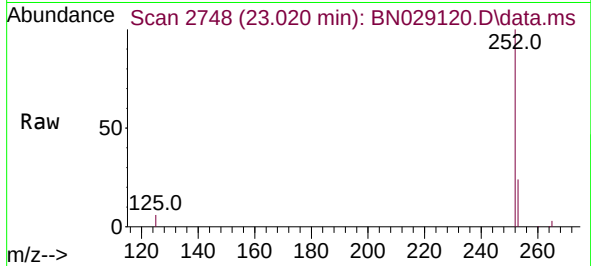




#37
Benzo(b)fluoranthene
Concen: 5.327 ng
RT: 23.020 min Scan# 21
Delta R.T. 0.056 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

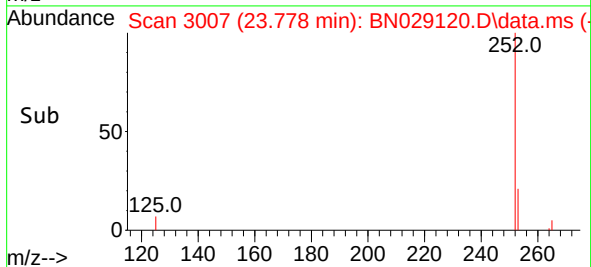
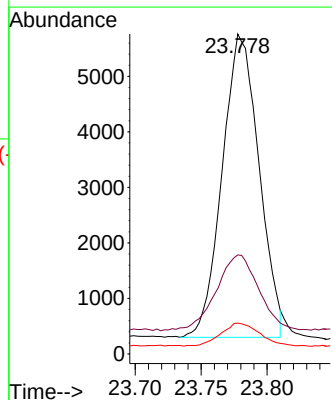
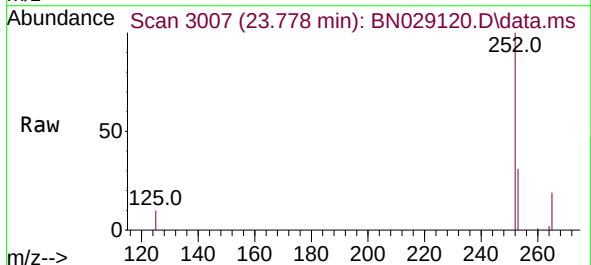
Instrument :
BNA_N
ClientSampleId :
PE-5

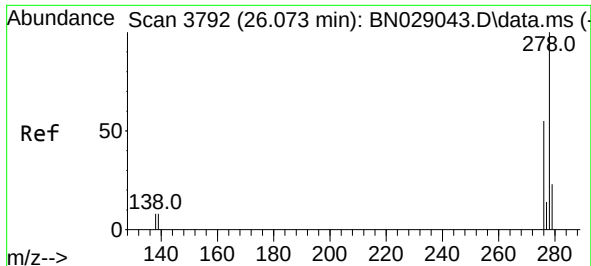
Tgt Ion:252 Resp: 62457
Ion Ratio Lower Upper
252 100
253 23.9 23.0 34.6
125 5.9 5.4 8.0



#39
Benzo(a)pyrene
Concen: 1.091 ng
RT: 23.778 min Scan# 3007
Delta R.T. 0.213 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

Tgt Ion:252 Resp: 10588
Ion Ratio Lower Upper
252 100
253 31.0 25.3 37.9
125 9.6 6.5 9.7

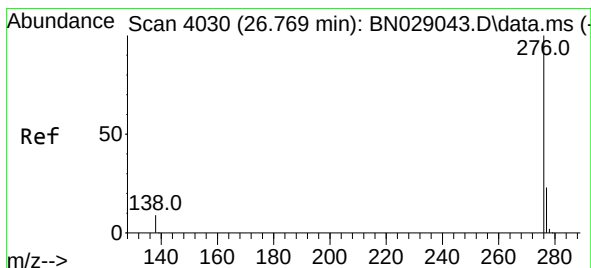
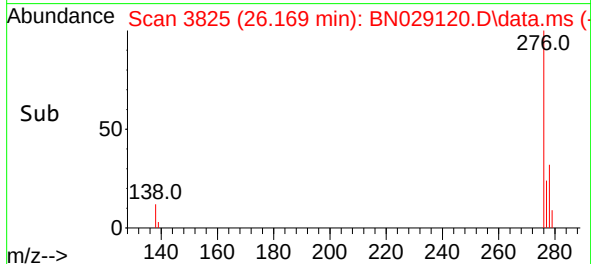
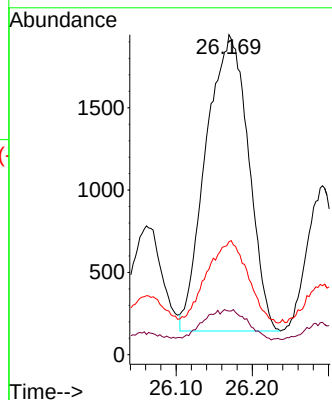
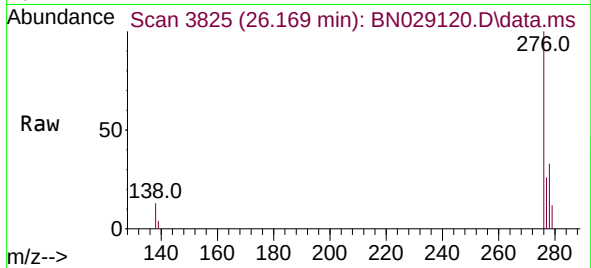




#40
Dibenzo(a,h)anthracene
Concen: 0.812 ng
RT: 26.169 min Scan# 31
Delta R.T. 0.097 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

Instrument :
BNA_N
ClientSampleId :
PE-5

Tgt Ion:278 Resp: 6976
Ion Ratio Lower Upper
278 100
139 13.7 9.4 14.2
279 35.3 24.2 36.4



#41
Benzo(g,h,i)perylene
Concen: 2.546 ng
RT: 26.897 min Scan# 4074
Delta R.T. 0.129 min
Lab File: BN029120.D
Acq: 08 Dec 2023 09:54

Tgt Ion:276 Resp: 23923
Ion Ratio Lower Upper
276 100
277 24.4 20.3 30.5
138 12.4 9.2 13.8

