

Data File : BN007225.D
Acq On : 16 Aug 2019 16:25
Operator : HP/JU
Sample : K4282-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PST-035-B249-080819

Quant Time: Aug 17 00:58:41 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN081019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 13 12:12:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.42	152	7477	0.40	ng	-0.02
6) Naphthalene-d8	10.17	136	28427	0.40	ng	-0.01
12) Acenaphthene-d10	14.07	164	17194	0.40	ng	-0.01
18) Phenanthrene-d10	16.81	188	39192	0.40	ng	-0.01
26) Chrysene-d12	21.03	240	39891	0.40	ng	-0.02
32) Perylene-d12	23.15	264	43628	0.40	ng	-0.02

System Monitoring Compounds						
3) 2-Fluorophenol	5.05	112	4488	0.25	ng	0.00
4) Phenol-d6	6.61	99	6168	0.28	ng	0.00
7) Nitrobenzene-d5	8.55	82	7049	0.31	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	12013	0.23	ng	-0.02
13) 2,4,6-Tribromophenol	15.56	330	1779	0.19	ng	-0.01
14) 2-Fluorobiphenyl	12.71	172	700	0.03	ng	0.00
24) Fluoranthene-d10	18.86	212	30287	0.22	ng	-0.01
28) Terphenyl-d14	19.48	244	22762	0.21	ng	-0.02

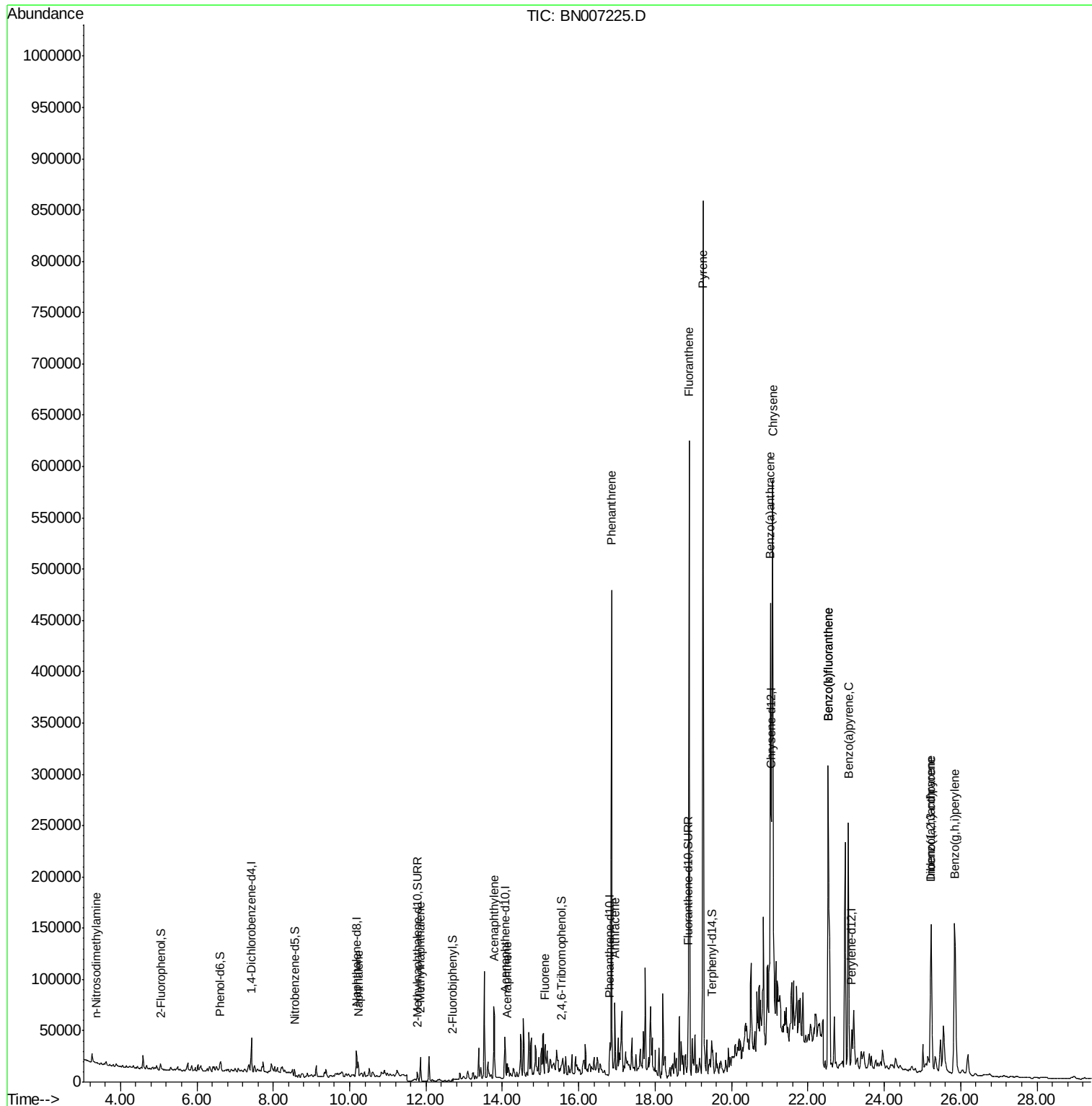
Target Compounds				Qvalue		
2) n-Nitrosodimethylamine	3.38	42	133	0.027	ng	# 1
8) Naphthalene	10.23	128	19280	0.242	ng	99
11) 2-Methylnaphthalene	11.85	142	16265	0.288	ng	97
15) Acenaphthylene	13.78	152	89603	0.997	ng	98
16) Acenaphthene	14.13	154	6981	0.121	ng	# 88
17) Fluorene	15.12	166	20059	0.233	ng	# 74
22) Phenanthrene	16.86	178	462368	3.937	ng	99
23) Anthracene	16.95	178	72948	0.680	ng	98
25) Fluoranthene	18.89	202	603867	4.019	ng	98
27) Pyrene	19.25	202	790728	5.652	ng	98
29) Benzo(a)anthracene	21.02	228	340360	2.333	ng	# 84
30) Chrysene	21.08	228	529372	3.735	ng	# 95
31) Indeno(1,2,3-cd)pyrene	25.22	276	212726	1.362	ng	99
33) Benzo(b)fluoranthene	22.53	252	466944	3.121	ng	99
34) Benzo(k)fluoranthene	22.53	252	466944	3.160	ng	99
35) Benzo(a)pyrene	23.06	252	319866	2.358	ng	99
36) Dibenzo(a,h)anthracene	25.24	278	69031	0.510	ng	# 75
37) Benzo(g,h,i)perylene	25.85	276	241050	1.732	ng	# 70

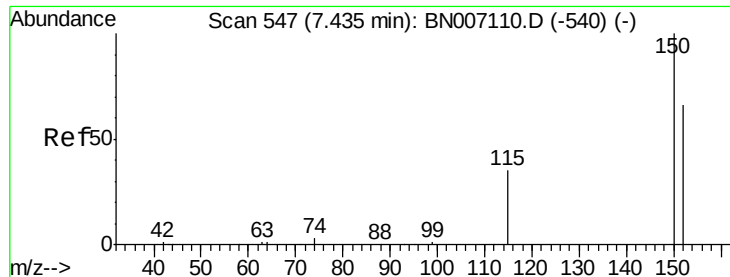
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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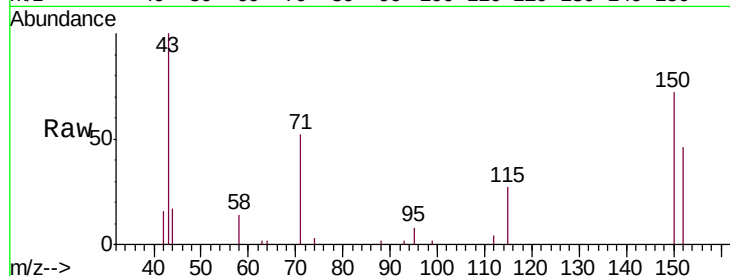


#1

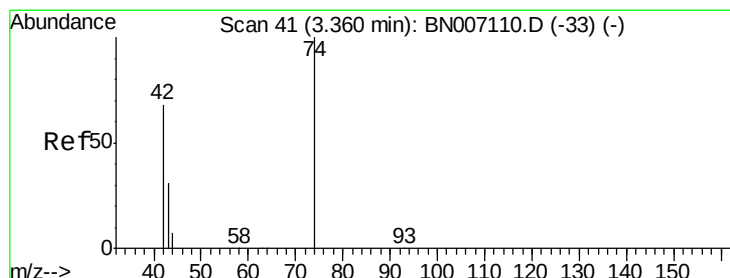
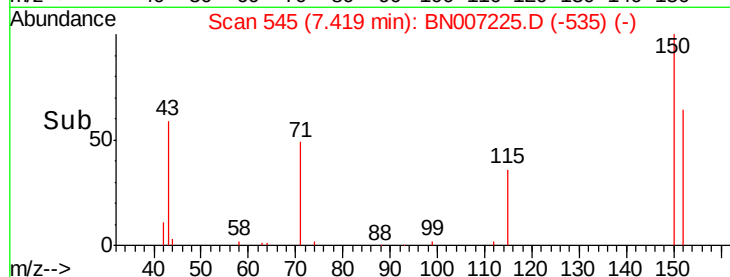
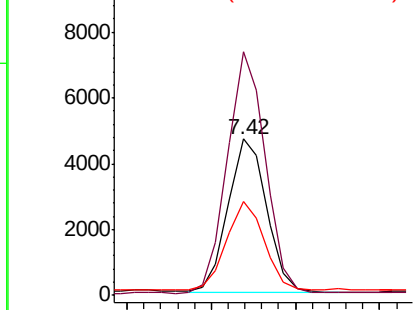
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.42 min Scan# 545
Delta R.T. -0.02 min
Lab File: BN007225.D
Acq: 16 Aug 2019 16:25

Instrument :
BNA_N
ClientSampleId :
PST-035-B249-080819

Tgt Ion:152 Resp: 7477
Ion Ratio Lower Upper
152 100
150 155.6 121.7 182.5
115 59.7 46.2 69.4



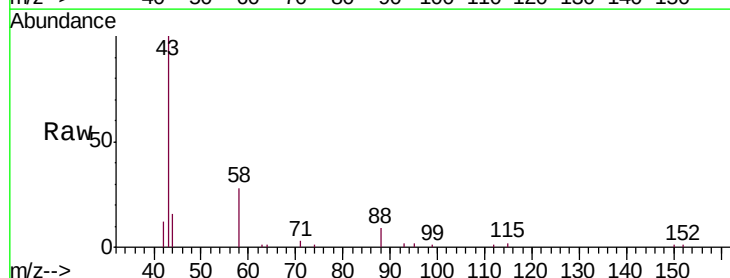
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



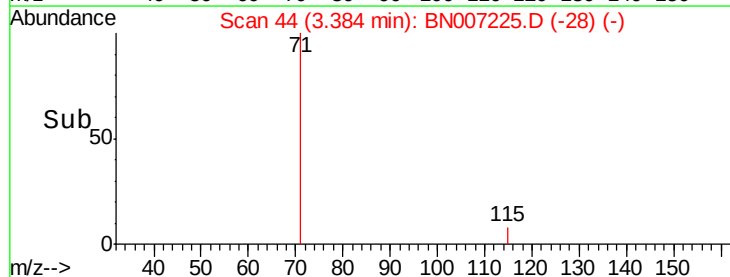
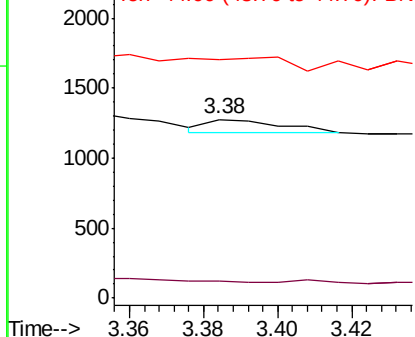
#2

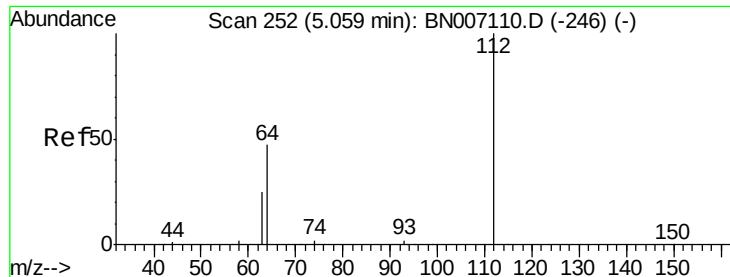
n-Nitrosodimethylamine
Concen: 0.027 ng
RT: 3.38 min Scan# 44
Delta R.T. 0.03 min
Lab File: BN007225.D
Acq: 16 Aug 2019 16:25

Tgt Ion: 42 Resp: 133
Ion Ratio Lower Upper
42 100
74 0.0 110.6 166.0#
44 0.0 0.0 0.0



Abundance Ion 42.00 (41.70 to 42.70): BNC
Ion 74.00 (73.70 to 74.70): BNC
Ion 44.00 (43.70 to 44.70): BNC





#3

2-Fluorophenol

Concen: 0.250 ng

RT: 5.05 min Scan# 251

Delta R.T. -0.01 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

Instrument :

BNA_N

ClientSampleId :

PST-035-B249-080819

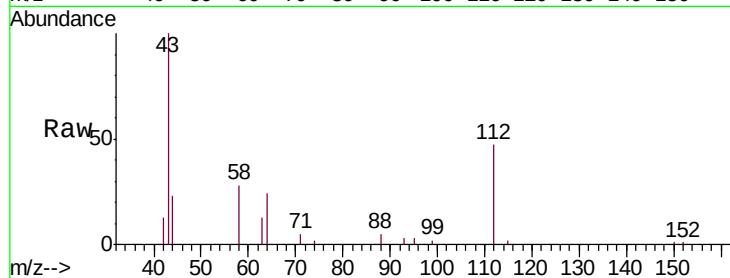
Tgt Ion: 112 Resp: 4488

Ion Ratio Lower Upper

112 100

64 52.0 42.6 63.8

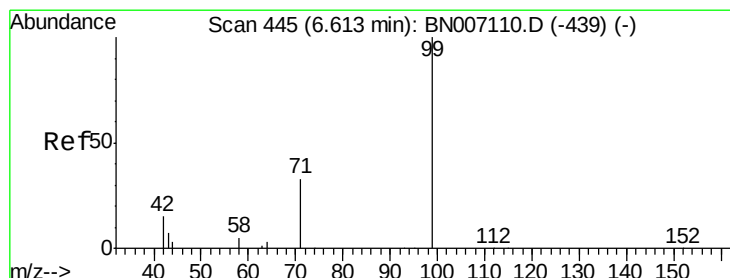
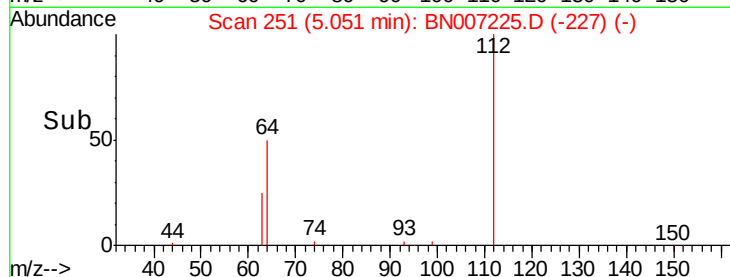
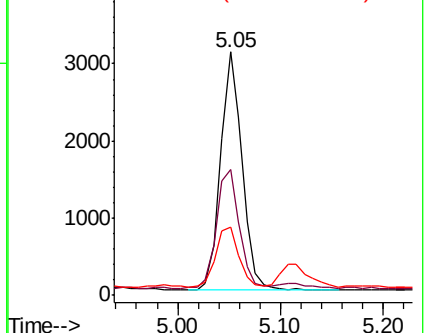
63 27.4 22.2 33.2



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BNO

Ion 63.00 (62.70 to 63.70): BNO



#4

Phenol-d6

Concen: 0.277 ng

RT: 6.61 min Scan# 444

Delta R.T. -0.01 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

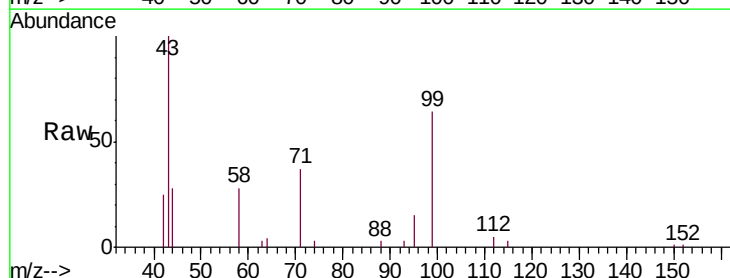
Tgt Ion: 99 Resp: 6168

Ion Ratio Lower Upper

99 100

42 45.6 15.8 23.6#

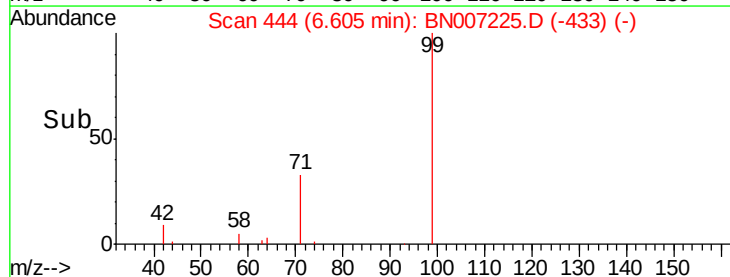
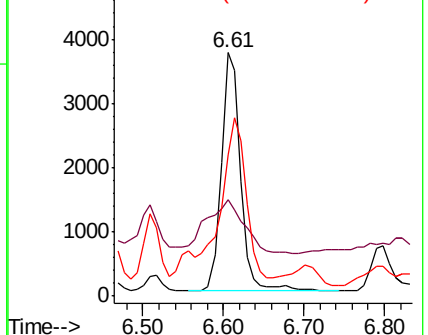
71 88.5 27.0 40.4#

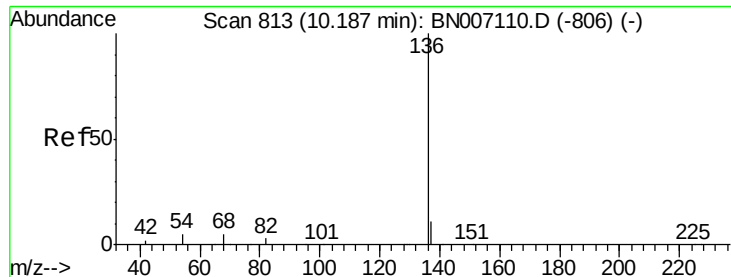


Abundance Ion 99.00 (98.70 to 99.70): BNO

Ion 42.00 (41.70 to 42.70): BNO

Ion 71.00 (70.70 to 71.70): BNO





#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.17 min Scan# 812

Delta R.T. -0.01 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

Instrument :

BNA_N

ClientSampleId :

PST-035-B249-080819

Tgt Ion:136 Resp: 28427

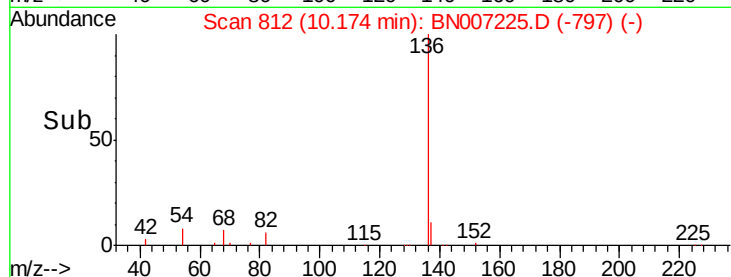
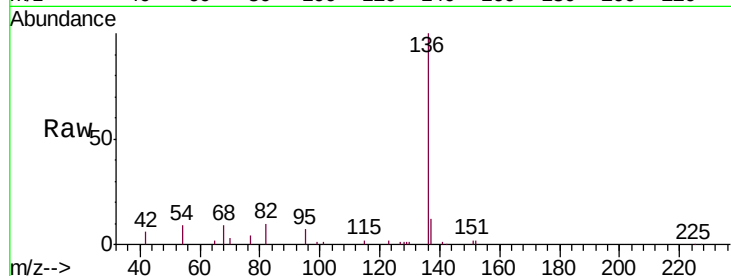
Ion Ratio Lower Upper

136 100

137 11.9 9.4 14.0

54 8.9 6.6 9.8

68 9.0 6.0 9.0#



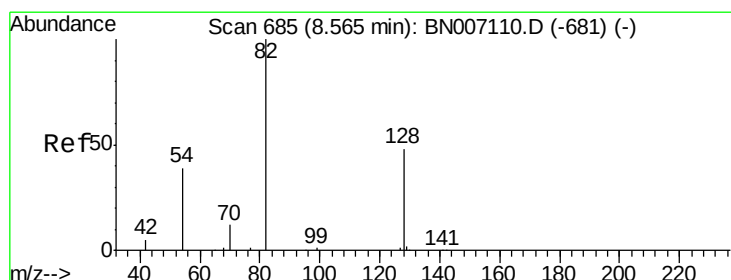
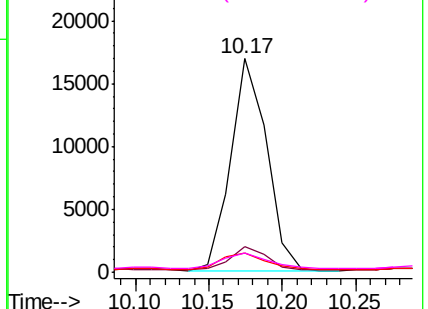
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#7

Nitrobenzene-d5

Concen: 0.308 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

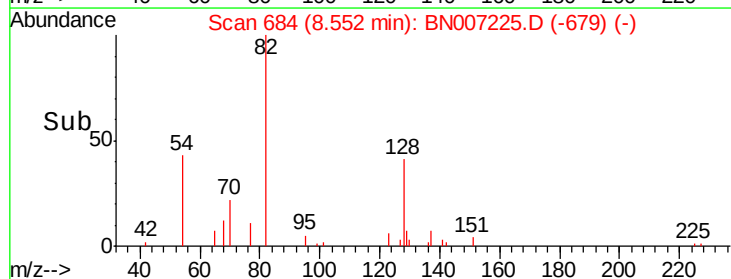
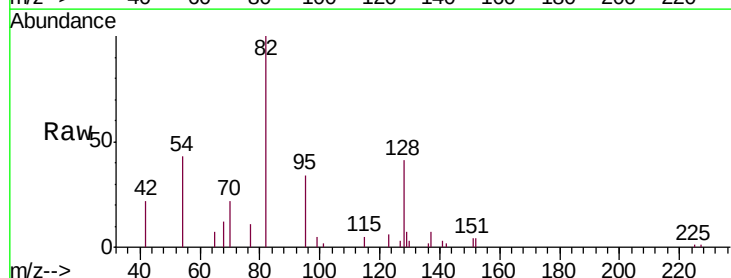
Tgt Ion: 82 Resp: 7049

Ion Ratio Lower Upper

82 100

128 41.4 34.6 51.8

54 42.9 36.2 54.4

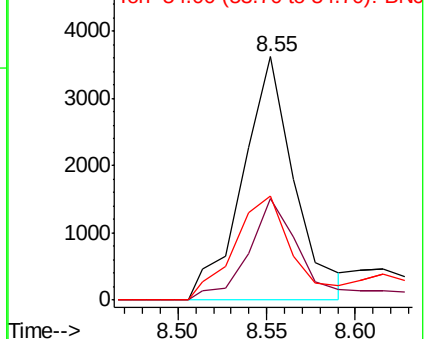


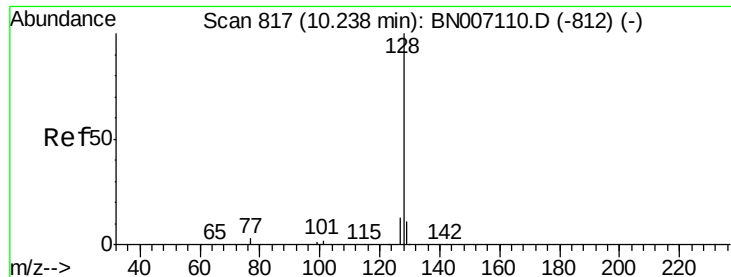
Abundance

Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#8

Naphthalene

Concen: 0.242 ng

RT: 10.23 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

Instrument :

BNA_N

ClientSampleId :

PST-035-B249-080819

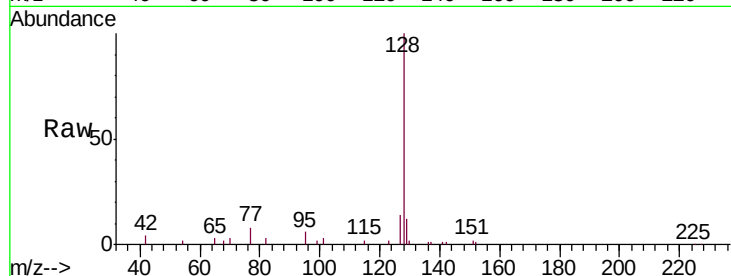
Tgt Ion:128 Resp: 19280

Ion Ratio Lower Upper

128 100

129 12.1 9.4 14.2

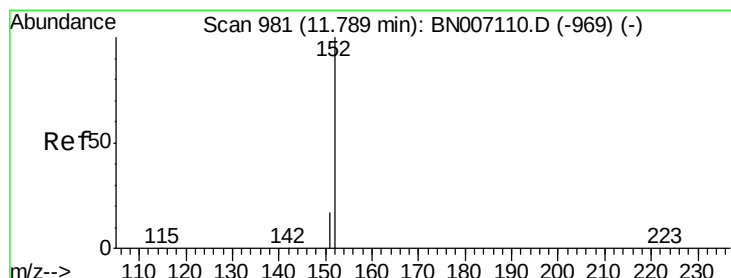
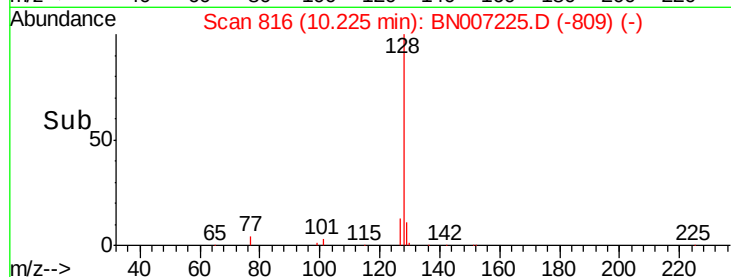
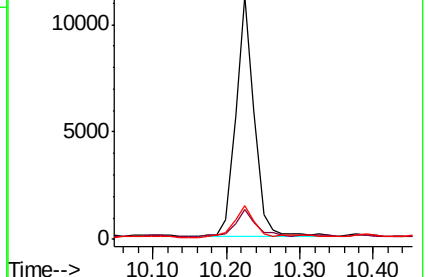
127 13.7 11.0 16.6



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

2-Methylnaphthalene-d10

Concen: 0.227 ng

RT: 11.78 min Scan# 978

Delta R.T. -0.02 min

Lab File: BN007225.D

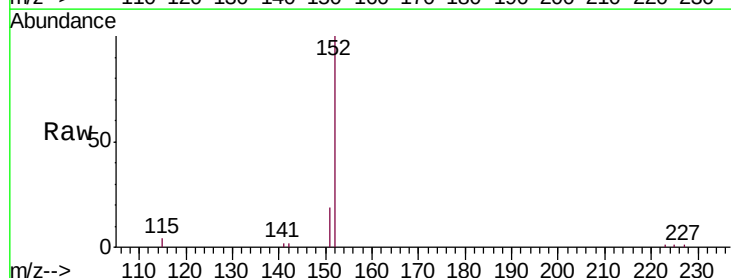
Acq: 16 Aug 2019 16:25

Tgt Ion:152 Resp: 12013

Ion Ratio Lower Upper

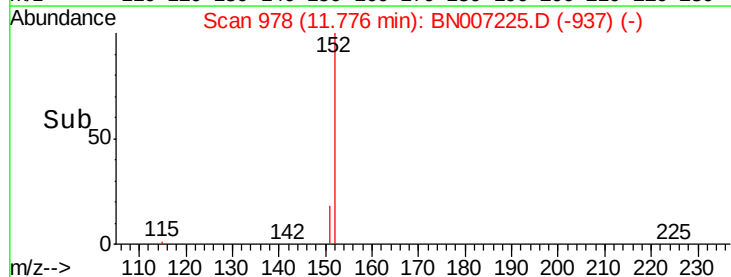
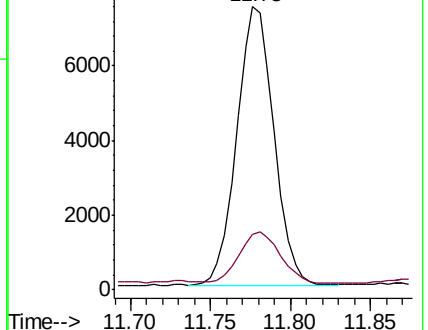
152 100

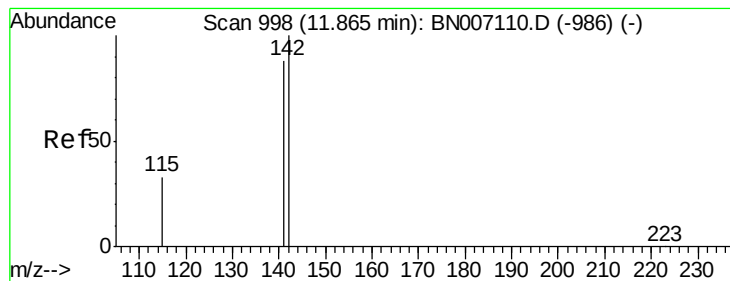
151 21.0 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#11

2-Methylnaphthalene

Concen: 0.288 ng

RT: 11.85 min Scan# 995

Delta R.T. -0.02 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

Instrument :

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ClientSampleId :

PST-035-B249-080819

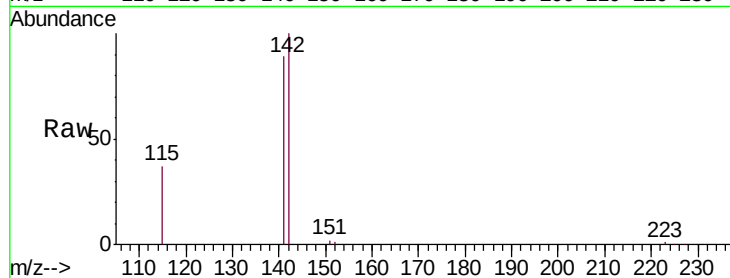
Tgt Ion:142 Resp: 16265

Ion Ratio Lower Upper

142 100

141 88.5 69.0 103.6

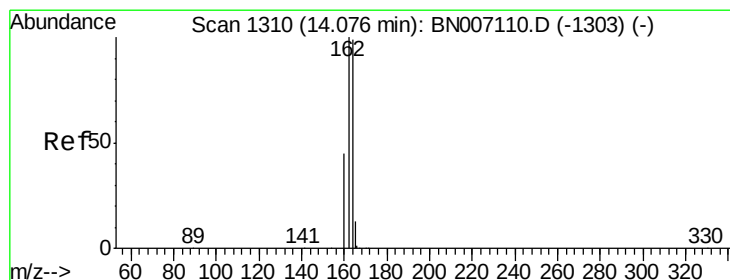
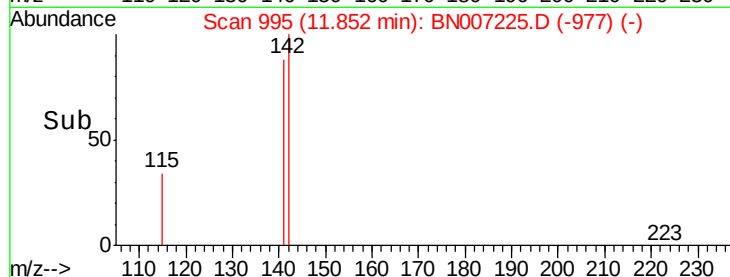
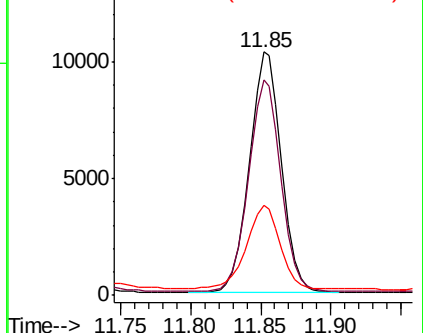
115 36.7 27.1 40.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

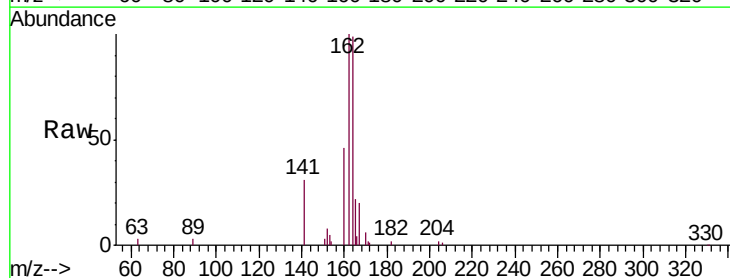
Tgt Ion:164 Resp: 17194

Ion Ratio Lower Upper

164 100

162 101.0 82.2 123.4

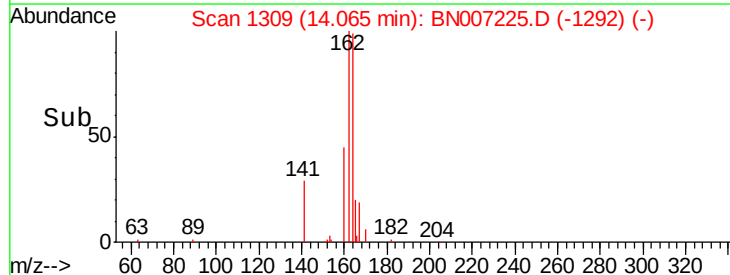
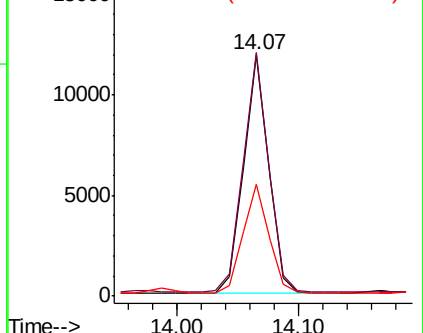
160 46.3 38.3 57.5

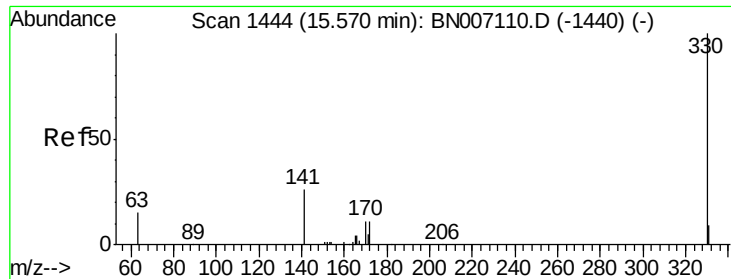


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

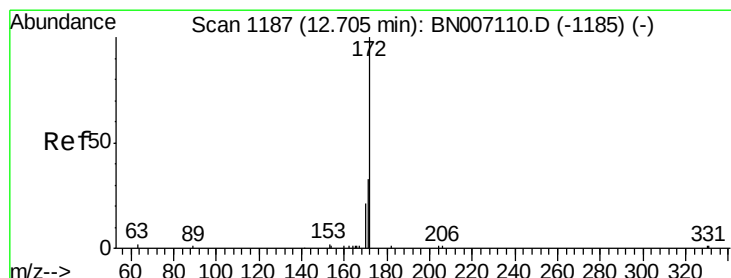
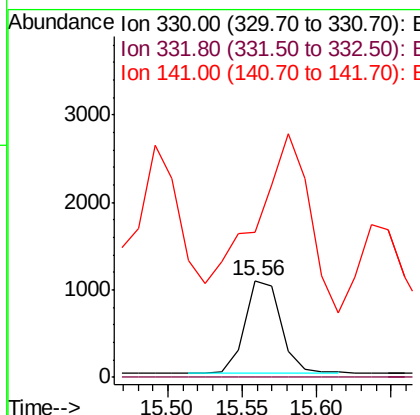
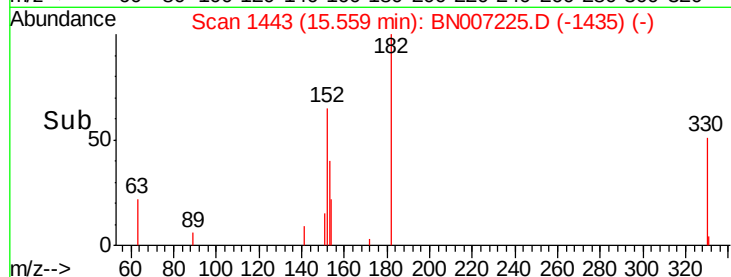
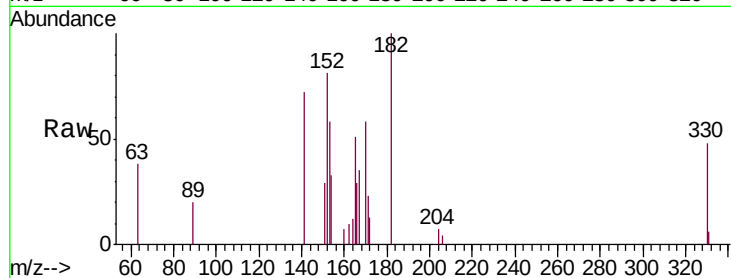




#13
 2,4,6-Tribromophenol
 Concen: 0.192 ng
 RT: 15.56 min Scan# 1443
 Delta R.T. -0.01 min
 Lab File: BN007225.D
 Acq: 16 Aug 2019 16:25

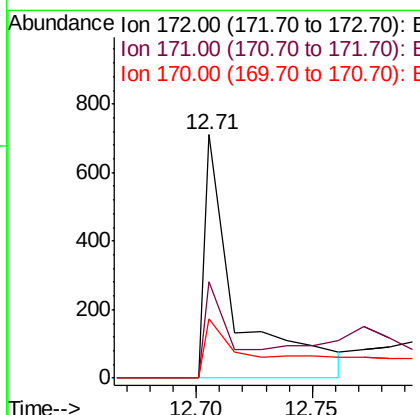
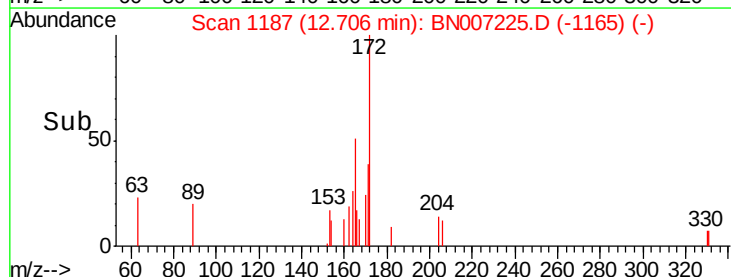
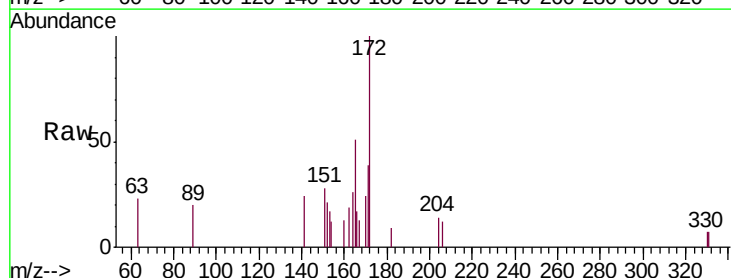
Instrument :
 BNA_N
 ClientSampleId :
 PST-035-B249-080819

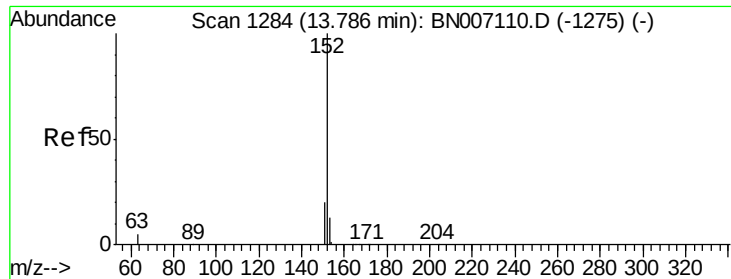
Tgt Ion: 330 Resp: 1779
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 0.0 33.6 50.4#



#14
 2-Fluorobiphenyl
 Concen: 0.028 ng
 RT: 12.71 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: BN007225.D
 Acq: 16 Aug 2019 16:25

Tgt Ion: 172 Resp: 700
 Ion Ratio Lower Upper
 172 100
 171 39.4 26.3 39.5
 170 24.5 17.0 25.4





#15

Acenaphthylene

Concen: 0.997 ng

RT: 13.78 min Scan# 1283

Delta R.T. -0.01 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

Instrument :

BNA_N

ClientSampleId :

PST-035-B249-080819

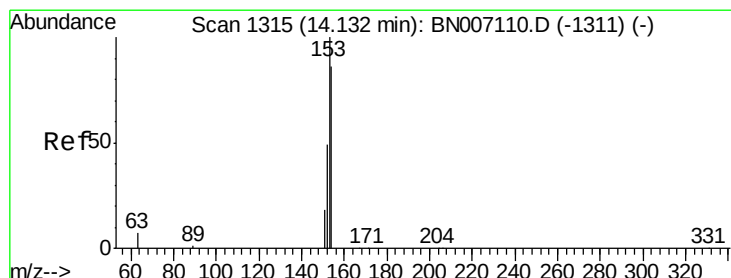
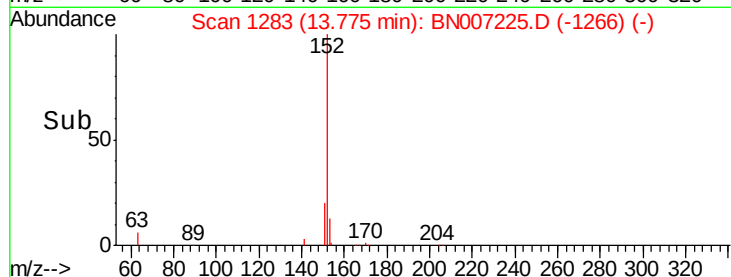
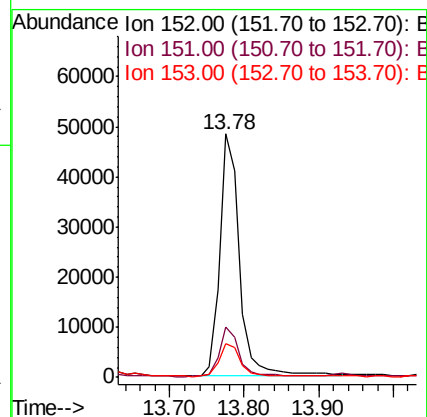
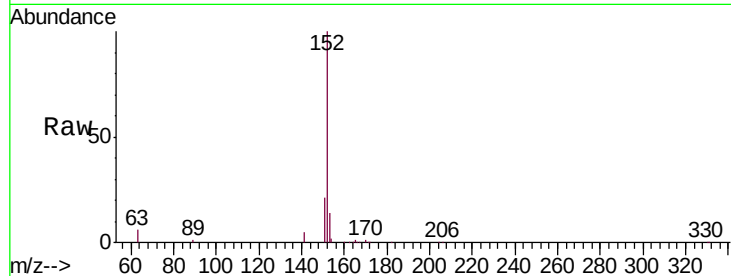
Tgt Ion:152 Resp: 89603

Ion Ratio Lower Upper

152 100

151 20.0 15.8 23.6

153 14.6 10.4 15.6



#16

Acenaphthene

Concen: 0.121 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

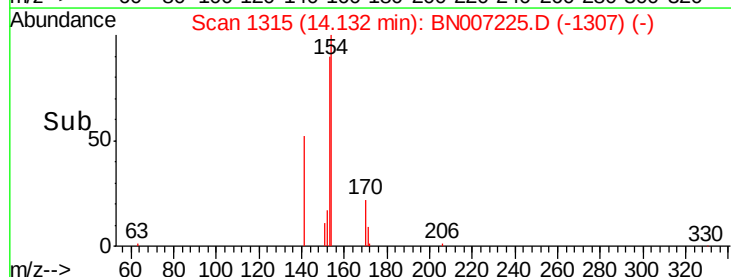
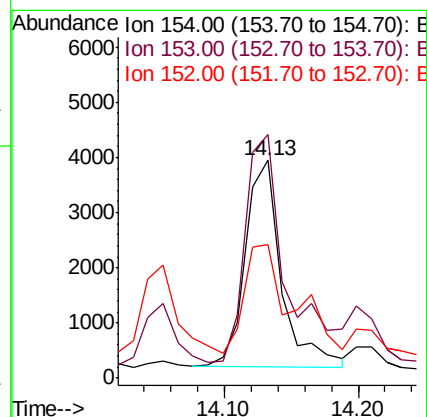
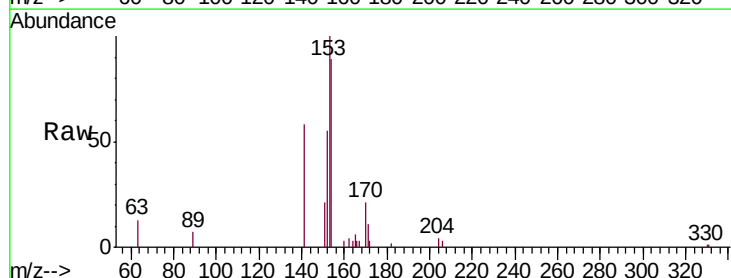
Tgt Ion:154 Resp: 6981

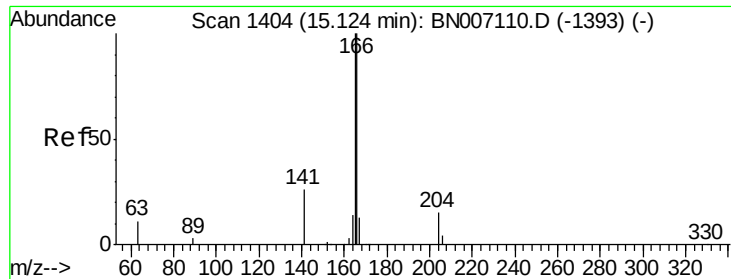
Ion Ratio Lower Upper

154 100

153 120.9 89.5 134.3

152 70.8 44.8 67.2#

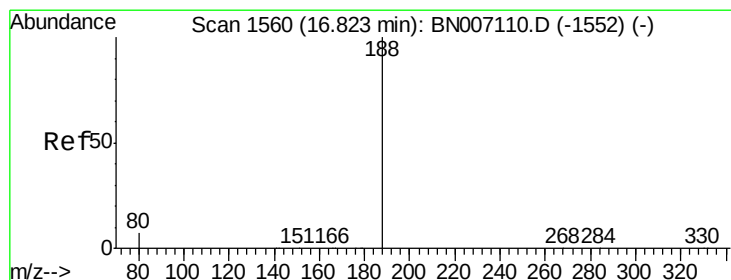
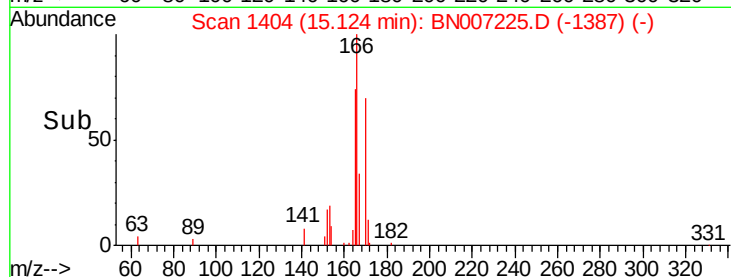
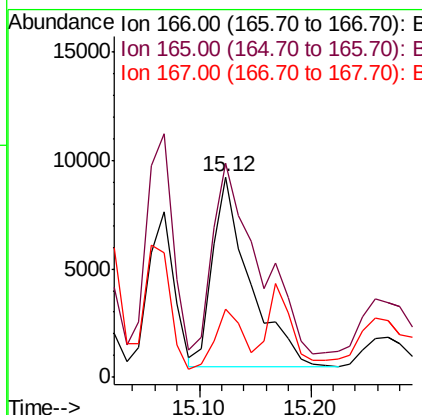
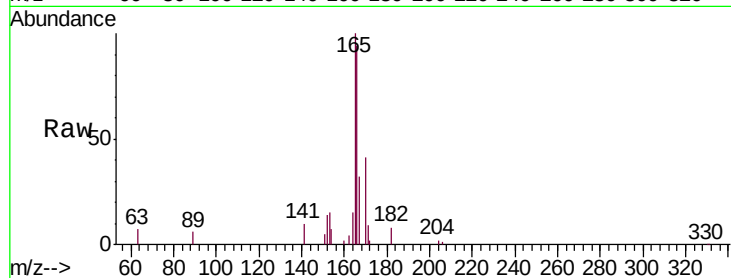




#17
 Fluorene
 Concen: 0.233 ng
 RT: 15.12 min Scan# 1404
 Delta R.T. -0.01 min
 Lab File: BN007225.D
 Acq: 16 Aug 2019 16:25

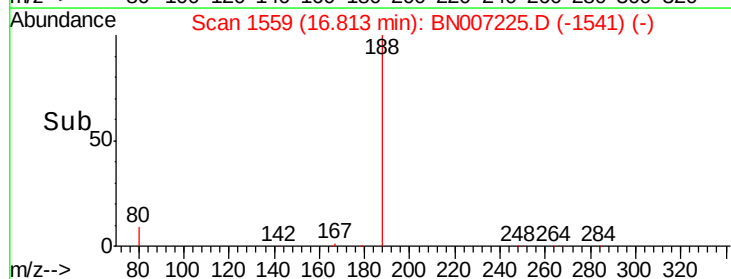
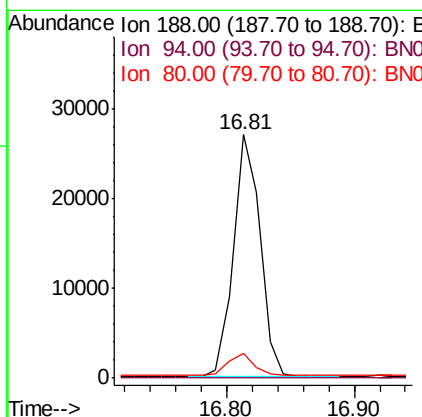
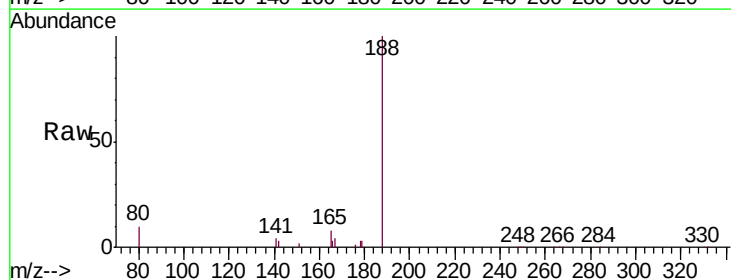
Instrument :
 BNA_N
 ClientSampleId :
 PST-035-B249-080819

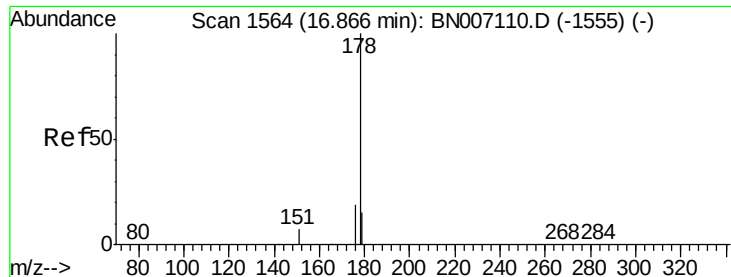
Tgt Ion	Ratio	Lower	Upper
166	100		
165	123.2	77.9	116.9#
167	24.1	10.9	16.3#



#18
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.81 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: BN007225.D
 Acq: 16 Aug 2019 16:25

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.0	7.8	11.6





#22

Phenanthrene

Concen: 3.937 ng

RT: 16.86 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

Instrument :

BNA_N

ClientSampleId :

PST-035-B249-080819

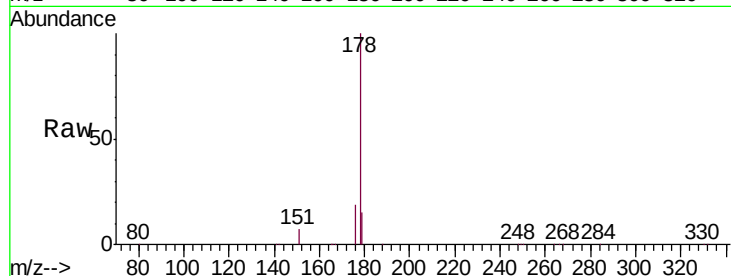
Tgt Ion:178 Resp: 462368

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

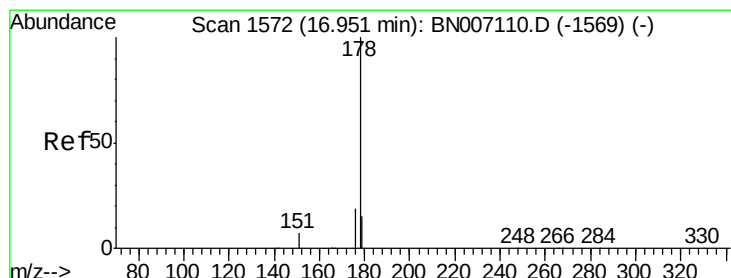
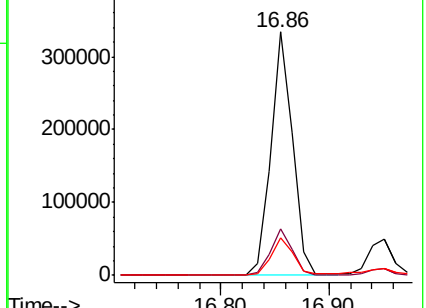
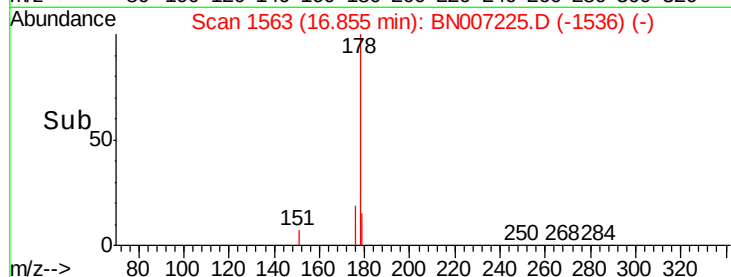
179 16.0 12.3 18.5



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#23

Anthracene

Concen: 0.680 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

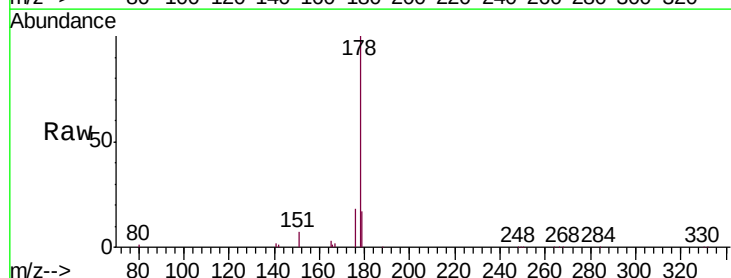
Tgt Ion:178 Resp: 72948

Ion Ratio Lower Upper

178 100

176 18.2 14.6 21.8

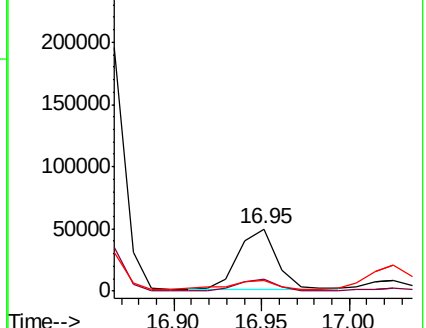
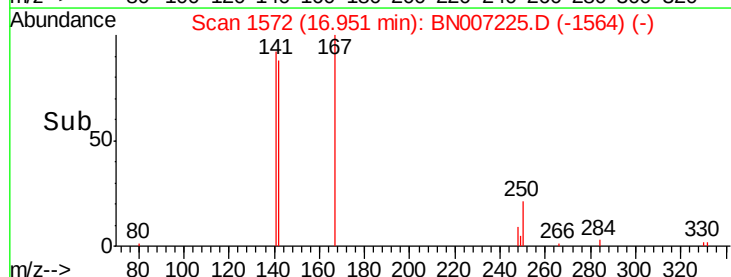
179 17.4 12.5 18.7

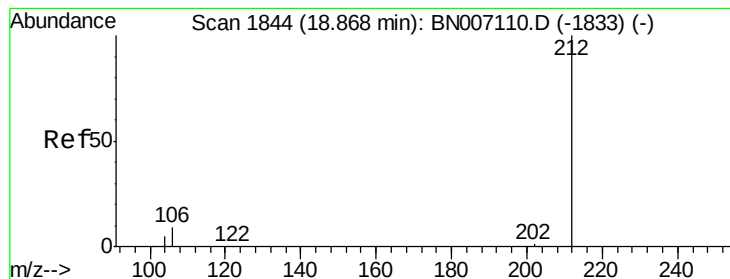


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Fluoranthene-d10

Concen: 0.218 ng

RT: 18.86 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

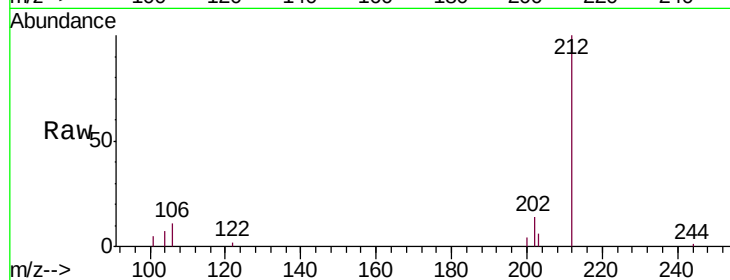
Instrument :

BNA_N

ClientSampleId :

PST-035-B249-080819

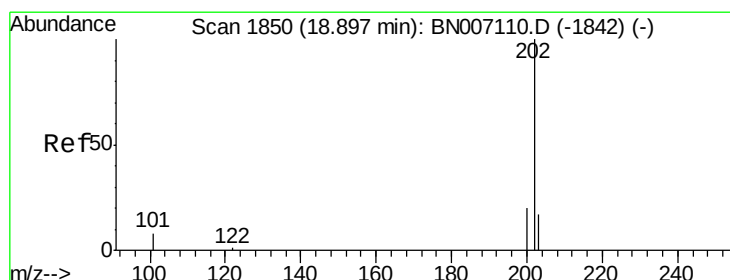
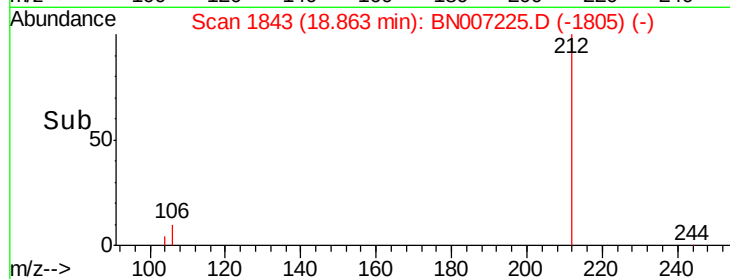
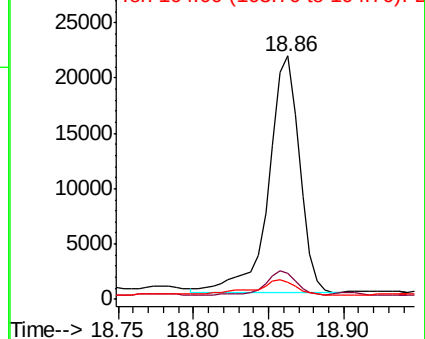
Tgt Ion:	212	Resp:	30287
Ion	Ratio	Lower	Upper
212	100		
106	10.3	8.2	12.2
104	8.3	4.5	6.7#



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#25

Fluoranthene

Concen: 4.019 ng

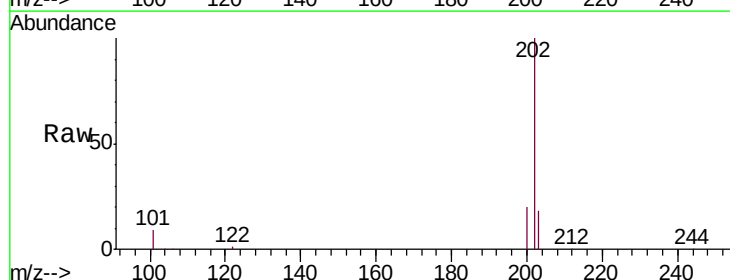
RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

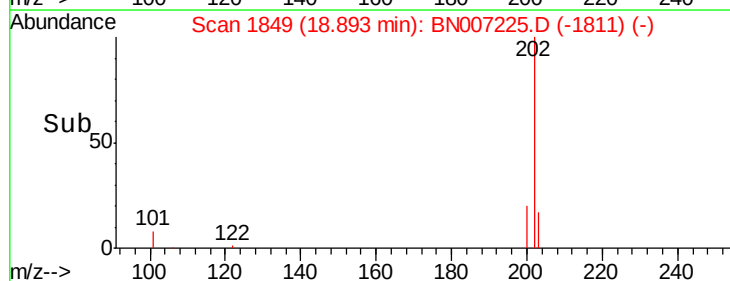
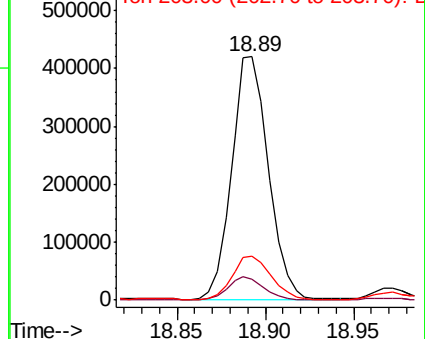
Tgt Ion:	202	Resp:	603867
Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.0	10.4
203	18.6	13.8	20.8

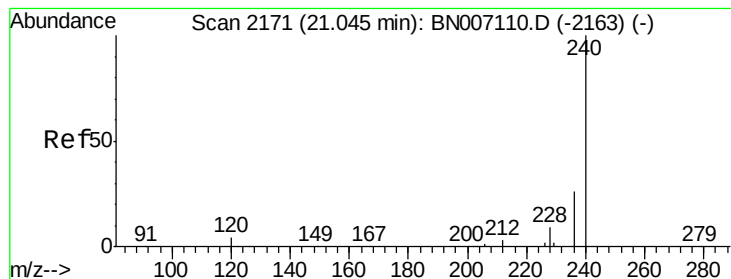


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#26

Chrysene-d12

Concen: 0.400 ng

RT: 21.03 min Scan# 2170

Delta R.T. -0.02 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

Instrument :

BNA_N

ClientSampleId :

PST-035-B249-080819

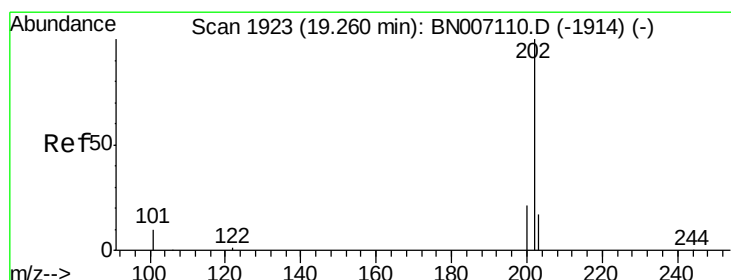
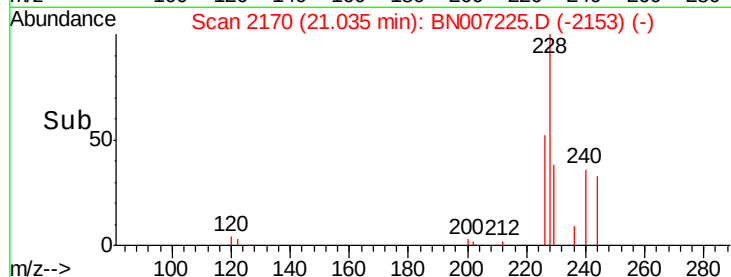
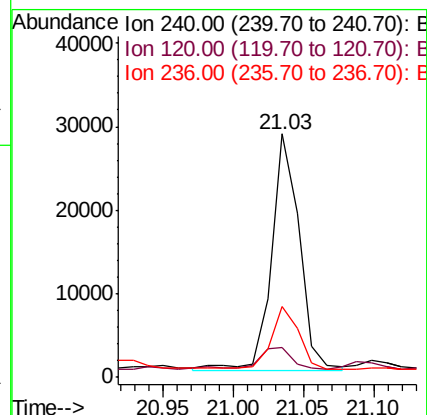
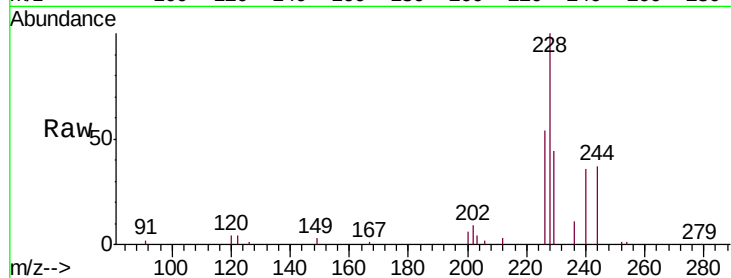
Tgt Ion:240 Resp: 39891

Ion Ratio Lower Upper

240 100

120 12.1 4.0 6.0#

236 29.3 21.3 31.9



#27

Pyrene

Concen: 5.652 ng

RT: 19.25 min Scan# 1922

Delta R.T. -0.01 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

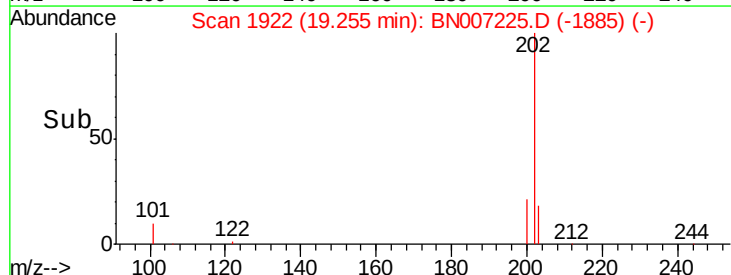
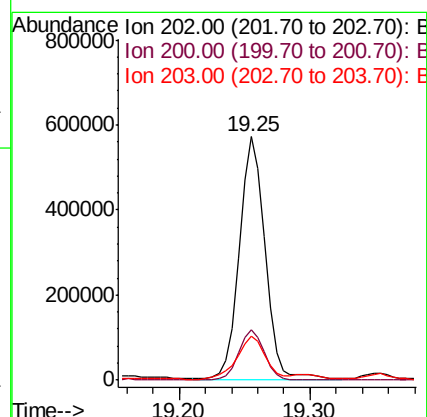
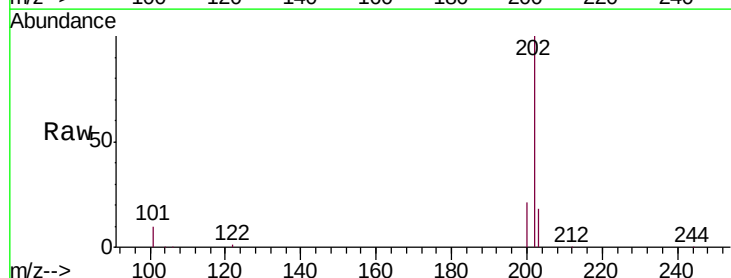
Tgt Ion:202 Resp: 790728

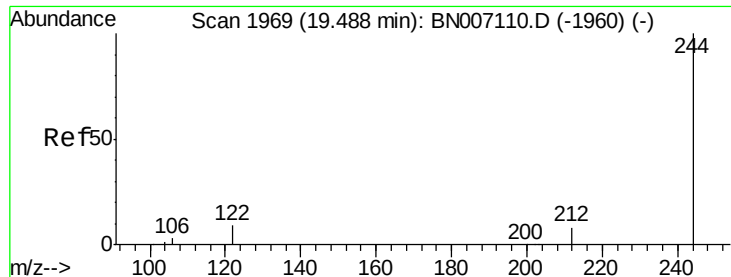
Ion Ratio Lower Upper

202 100

200 20.7 16.6 24.8

203 19.1 14.0 21.0





#28

Terphenyl-d14

Concen: 0.209 ng

RT: 19.48 min Scan# 1967

Delta R.T. -0.02 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

Instrument :

BNA_N

ClientSampleId :

PST-035-B249-080819

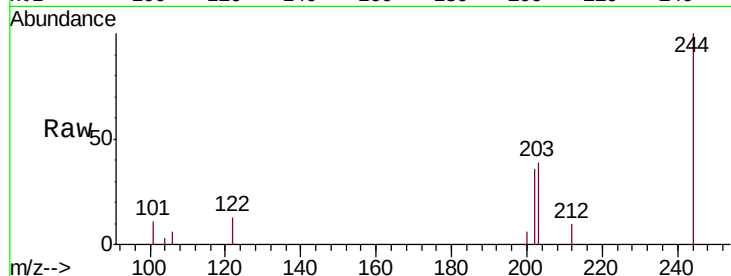
Tgt Ion:244 Resp: 22762

Ion Ratio Lower Upper

244 100

212 10.2 6.2 9.2#

122 12.7 7.4 11.2#

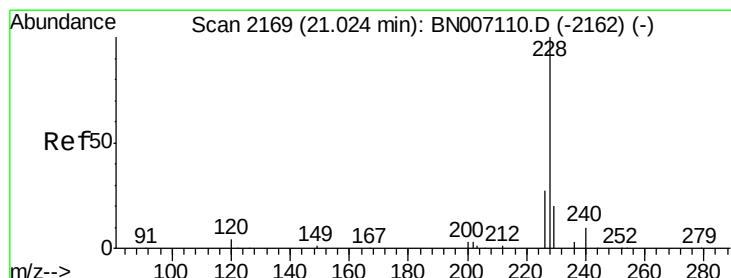
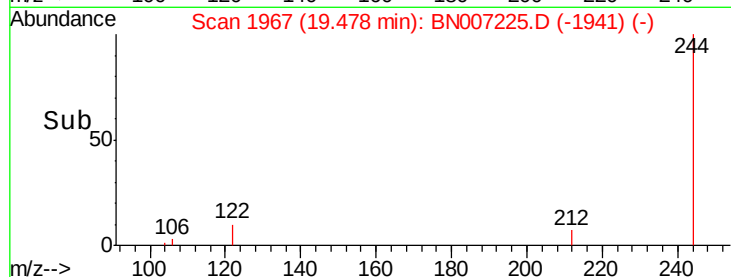
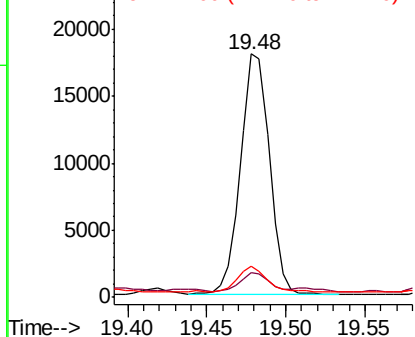


Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#29

Benzo(a)anthracene

Concen: 2.333 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

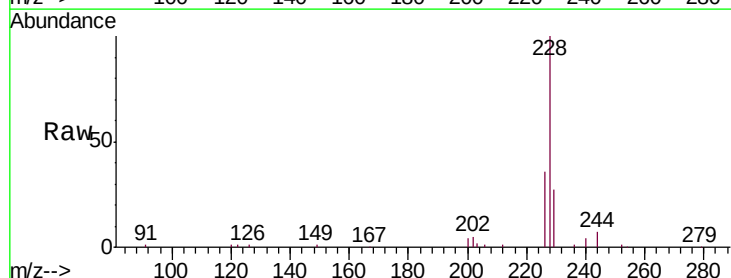
Tgt Ion:228 Resp: 340360

Ion Ratio Lower Upper

228 100

226 35.5 21.8 32.6#

229 26.7 15.6 23.4#

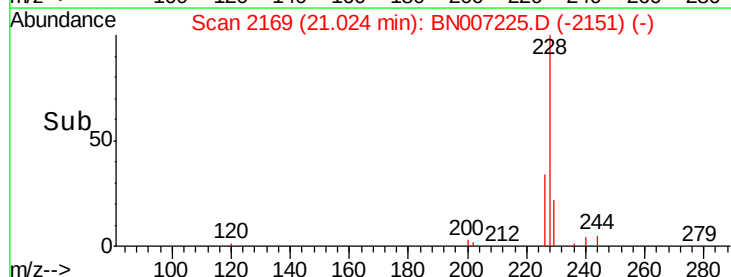
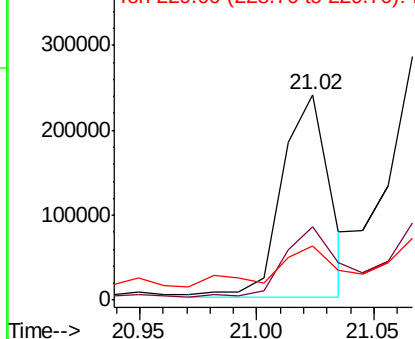


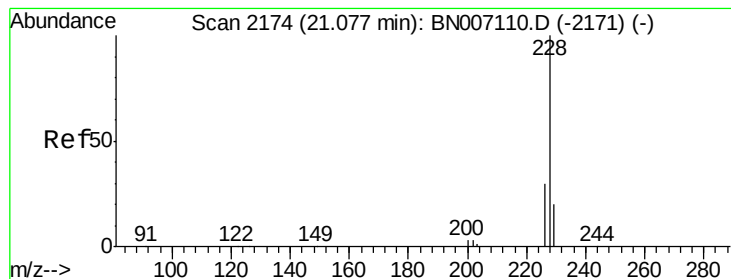
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#30

Chrysene

Concen: 3.735 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

Instrument :

BNA_N

ClientSampleId :

PST-035-B249-080819

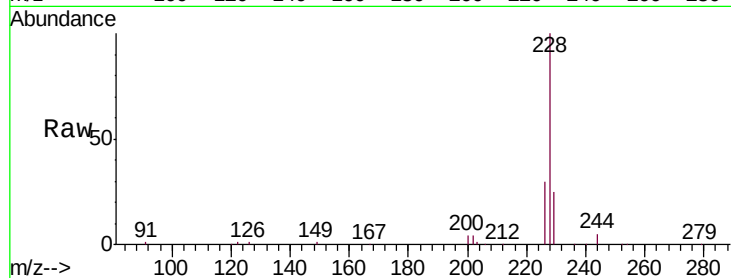
Tgt Ion: 228 Resp: 529372

Ion Ratio Lower Upper

228 100

226 29.5 23.8 35.6

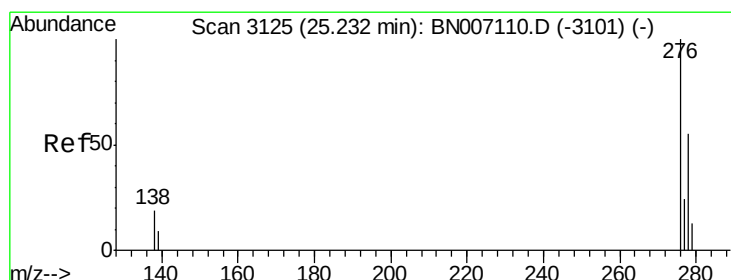
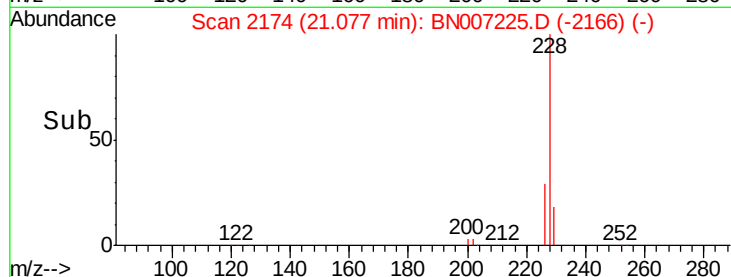
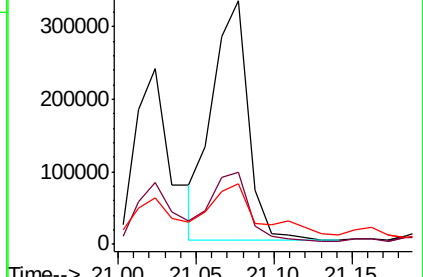
229 25.0 15.7 23.5#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

Indeno(1,2,3-cd)pyrene

Concen: 1.362 ng

RT: 25.22 min Scan# 3122

Delta R.T. -0.03 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

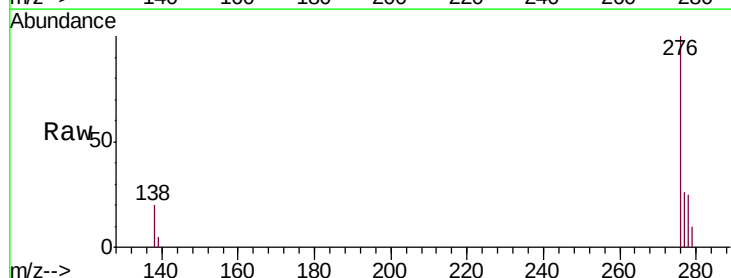
Tgt Ion: 276 Resp: 212726

Ion Ratio Lower Upper

276 100

138 19.2 16.0 24.0

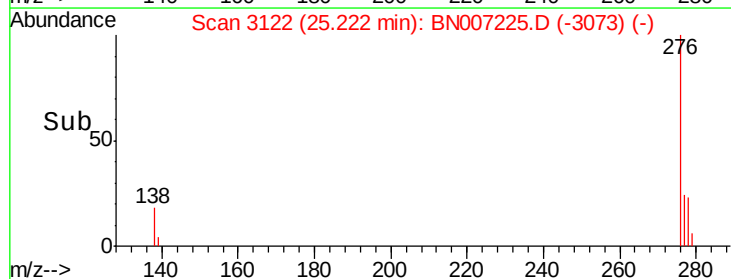
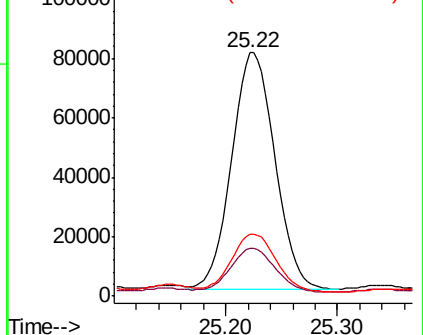
277 25.1 19.9 29.9

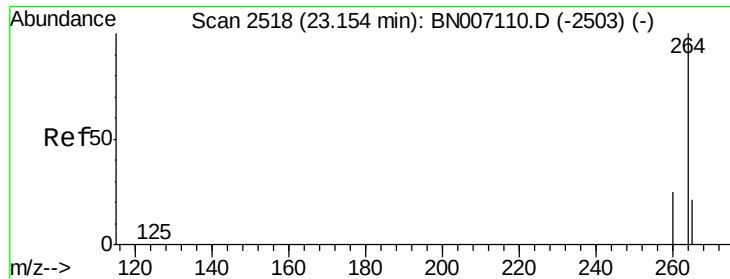


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

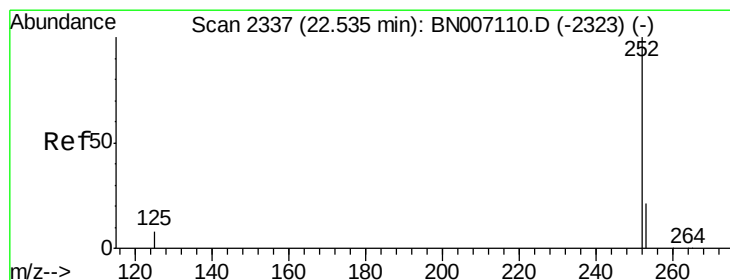
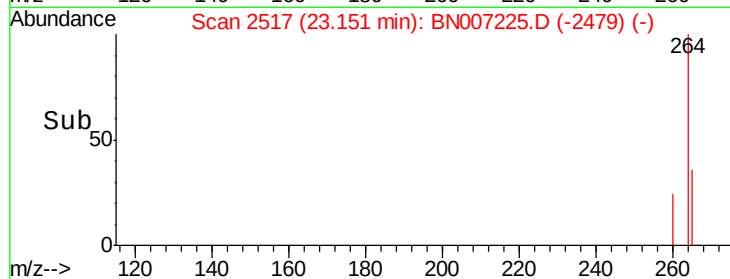
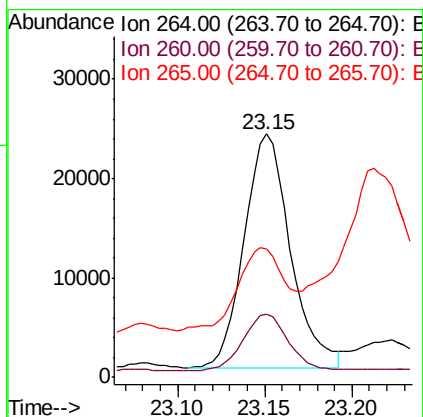
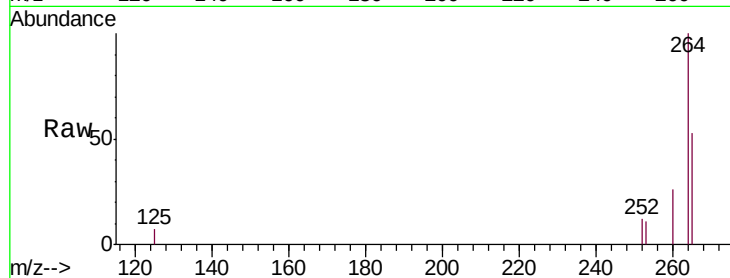




#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2517
 Delta R.T. -0.02 min
 Lab File: BN007225.D
 Acq: 16 Aug 2019 16:25

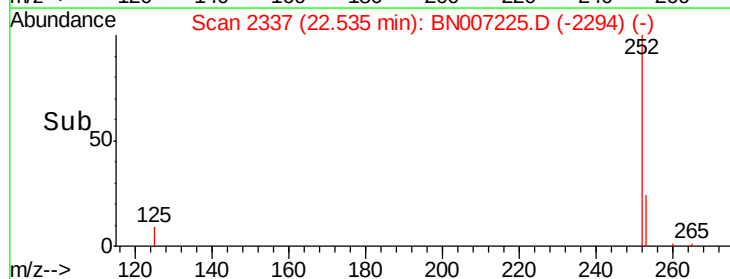
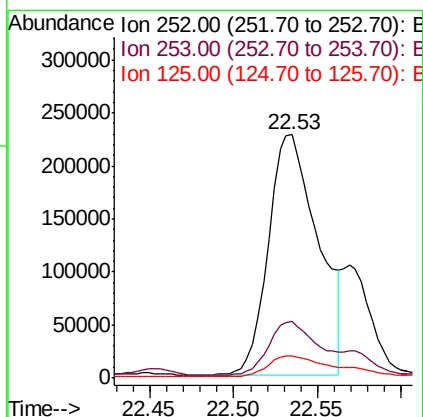
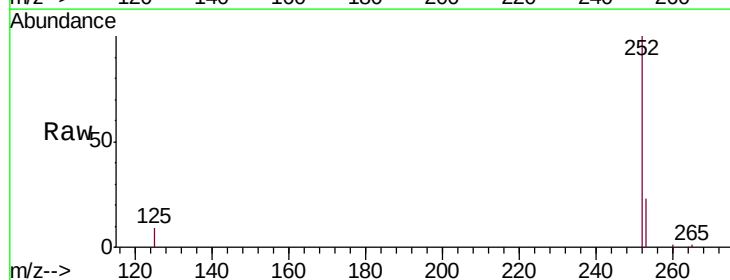
Instrument :
 BNA_N
 ClientSampleId :
 PST-035-B249-080819

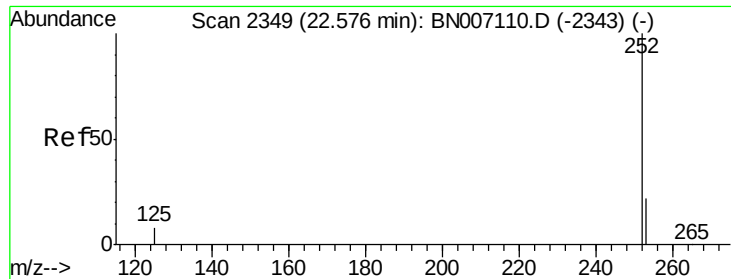
Tgt Ion: 264 Resp: 43628
 Ion Ratio Lower Upper
 264 100
 260 26.1 19.8 29.8
 265 52.9 26.2 39.4#



#33
 Benzo(b)fluoranthene
 Concen: 3.121 ng
 RT: 22.53 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: BN007225.D
 Acq: 16 Aug 2019 16:25

Tgt Ion: 252 Resp: 466944
 Ion Ratio Lower Upper
 252 100
 253 23.2 18.2 27.2
 125 9.2 7.4 11.0

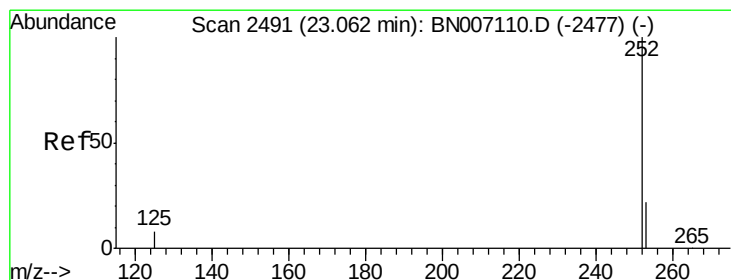
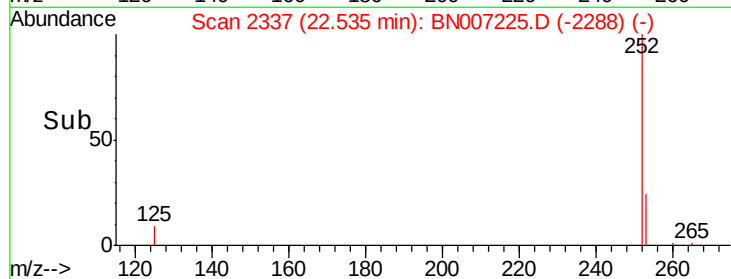
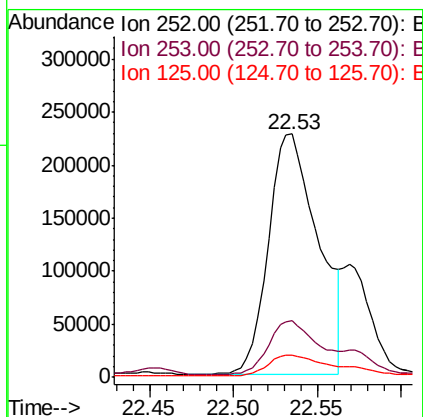
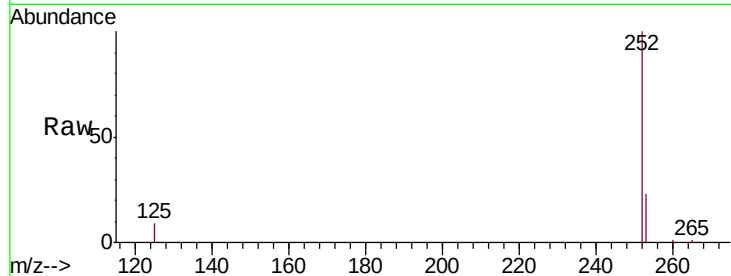




#34
Benzo(k)fluoranthene
Concen: 3.160 ng
RT: 22.53 min Scan# 2337
Delta R.T. -0.05 min
Lab File: BN007225.D
Acq: 16 Aug 2019 16:25

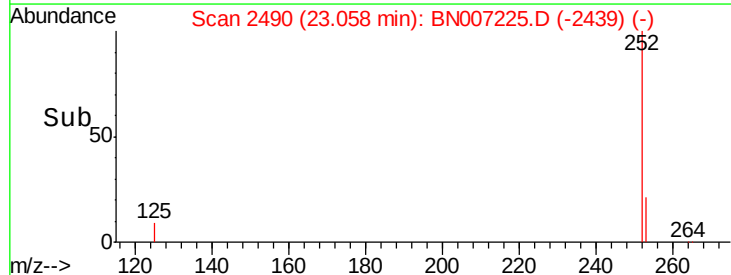
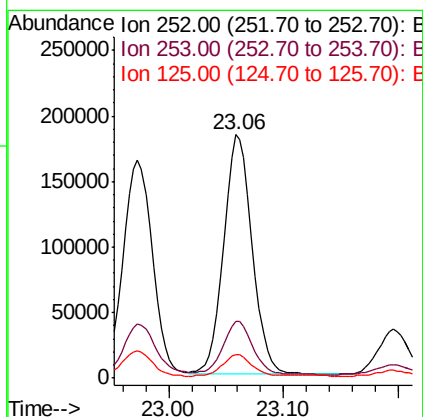
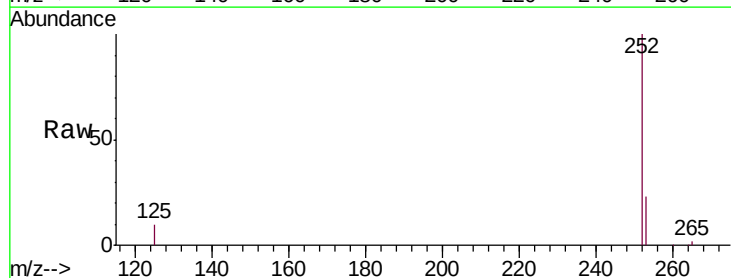
Instrument :
BNA_N
ClientSampleId :
PST-035-B249-080819

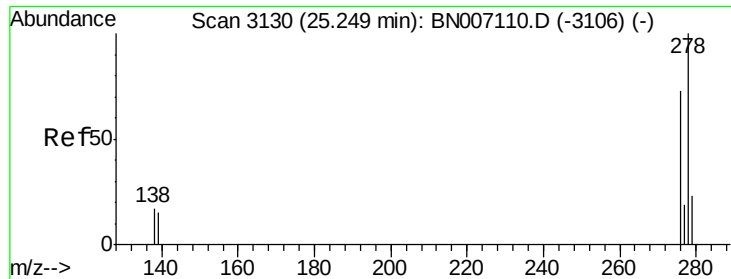
Tgt Ion:252 Resp: 466944
Ion Ratio Lower Upper
252 100
253 23.2 18.1 27.1
125 9.2 7.4 11.0



#35
Benzo(a)pyrene
Concen: 2.358 ng
RT: 23.06 min Scan# 2490
Delta R.T. -0.02 min
Lab File: BN007225.D
Acq: 16 Aug 2019 16:25

Tgt Ion:252 Resp: 319866
Ion Ratio Lower Upper
252 100
253 23.3 18.5 27.7
125 9.7 8.2 12.4





#36

Dibenzo(a,h)anthracene

Concen: 0.510 ng

RT: 25.24 min Scan# 3126

Delta R.T. -0.04 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

Instrument :

BNA_N

ClientSampleId :

PST-035-B249-080819

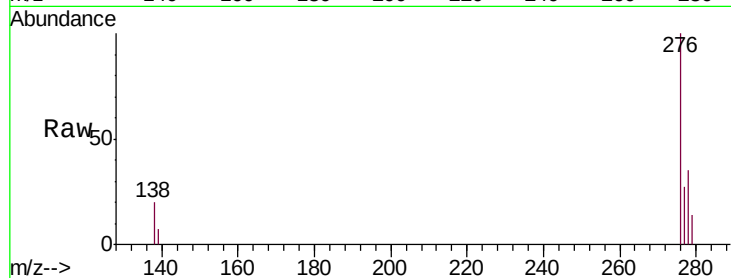
Tgt Ion: 278 Resp: 69031

Ion Ratio Lower Upper

278 100

139 19.6 11.3 16.9#

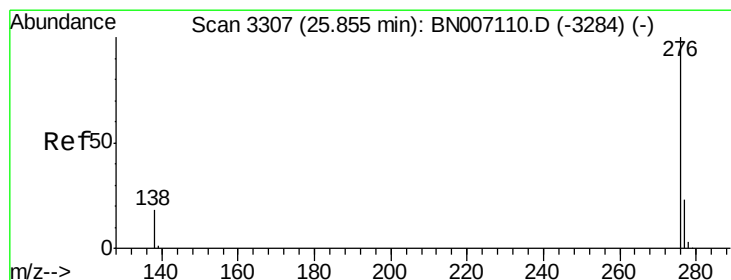
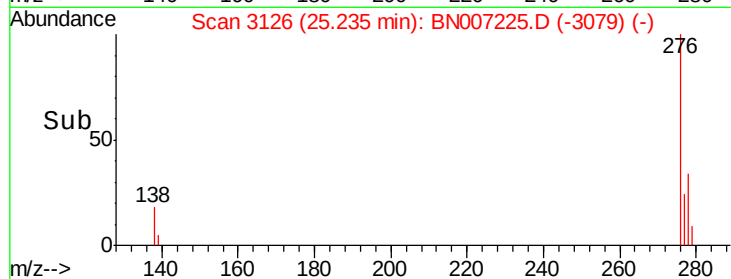
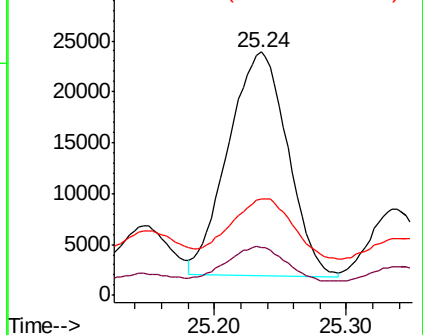
279 39.7 19.3 28.9#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#37

Benzo(g,h,i)perylene

Concen: 1.732 ng

RT: 25.85 min Scan# 3307

Delta R.T. -0.02 min

Lab File: BN007225.D

Acq: 16 Aug 2019 16:25

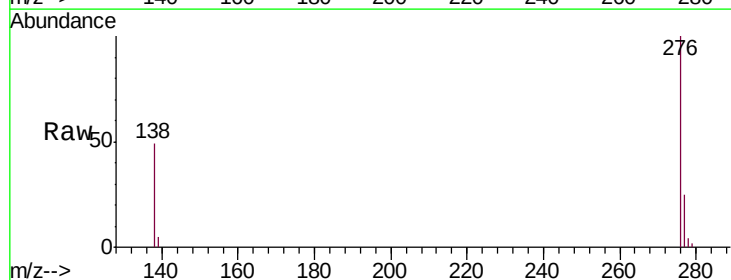
Tgt Ion: 276 Resp: 241050

Ion Ratio Lower Upper

276 100

277 25.0 19.8 29.8

138 49.4 14.6 22.0#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

