

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081319\
 Data File : BN007158.D
 Acq On : 14 Aug 2019 08:09
 Operator : HP/JU
 Sample : K4239-13 10X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 14 09:07:31 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	7.43	152	8446	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	32434	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	20163	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	41352	0.40	ng	0.00
26) Chrysene-d12	21.05	240	43113	0.40	ng	-0.01
32) Perylene-d12	23.17	264	58707	0.40	ng	0.00

System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	615	0.03	ng	0.00
4) Phenol-d6	6.62	99	772	0.03	ng	0.00
7) Nitrobenzene-d5	8.56	82	696	0.03	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	1347	0.02	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	268	0.02	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	424	0.01	ng	0.00
24) Fluoranthene-d10	18.84	212	7767	0.05	ng	-0.03
28) Terphenyl-d14	19.48	244	6966	0.06	ng	-0.02

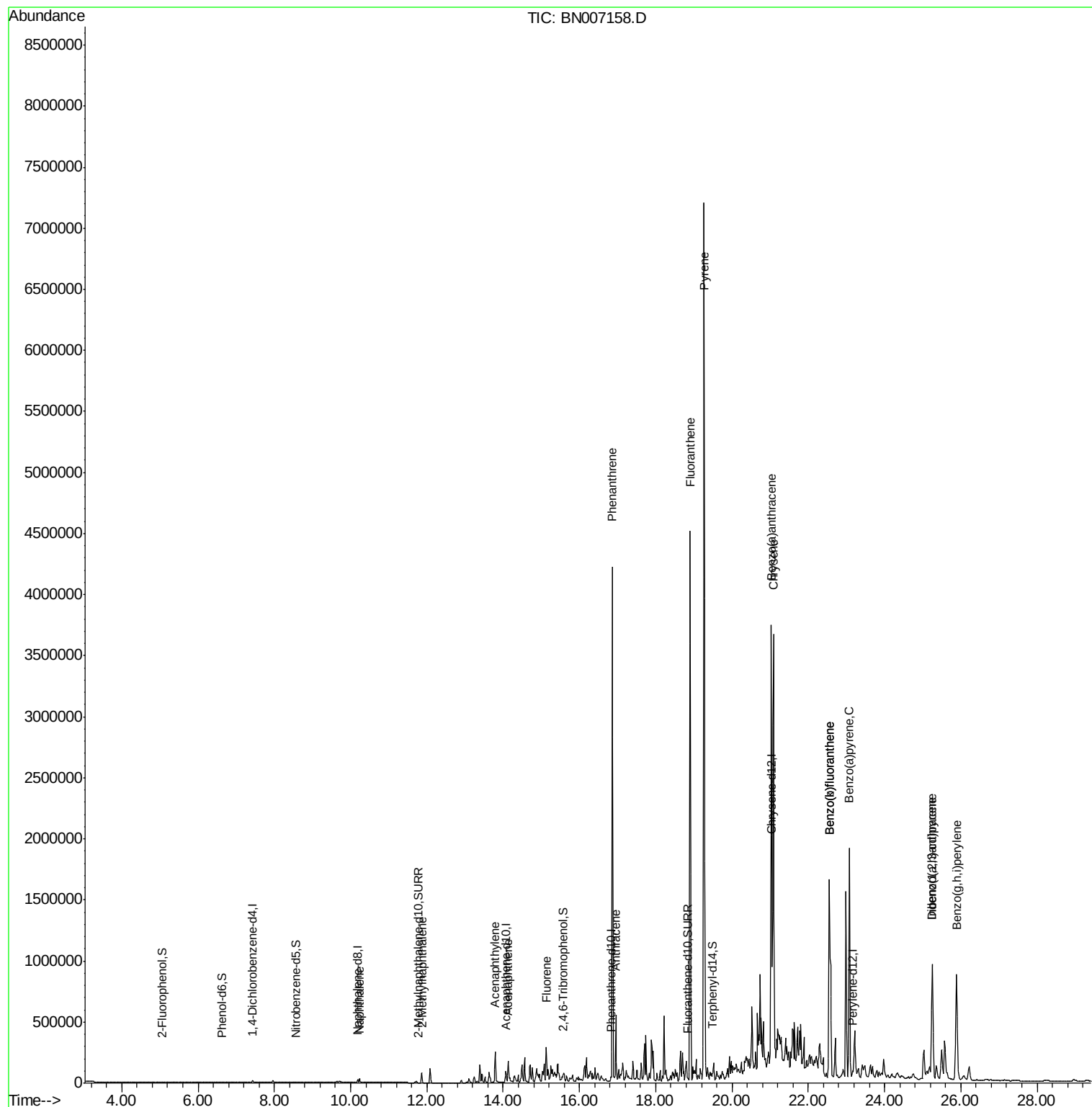
Target Compounds				Qvalue		
8) Naphthalene	10.24	128	45083	0.496	ng	99
11) 2-Methylnaphthalene	11.87	142	63229	0.981	ng	98
15) Acenaphthylene	13.79	152	301193	2.858	ng	97
16) Acenaphthene	14.13	154	93388	1.383	ng	93
17) Fluorene	15.13	166	177335	1.756	ng	# 88
22) Phenanthrene	16.87	178	4320670	34.864	ng	99
23) Anthracene	16.96	178	599071	5.291	ng	98
25) Fluoranthene	18.90	202	4369541	27.563	ng	98
27) Pyrene	19.27	202	6731905	44.525	ng	# 93
29) Benzo(a)anthracene	21.03	228	3085054	19.567	ng	93
30) Chrysene	21.09	228	3386921	22.110	ng	98
31) Indeno(1,2,3-cd)pyrene	25.25	276	1411116	8.358	ng	99
33) Benzo(b)fluoranthene	22.55	252	2865768	14.236	ng	99
34) Benzo(k)fluoranthene	22.55	252	2865768	14.414	ng	99
35) Benzo(a)pyrene	23.08	252	2400262	13.152	ng	99
36) Dibenzo(a,h)anthracene	25.26	278	452616	2.486	ng	92
37) Benzo(a,h,i)perylene	25.89	276	1700631	9.079	ng	100

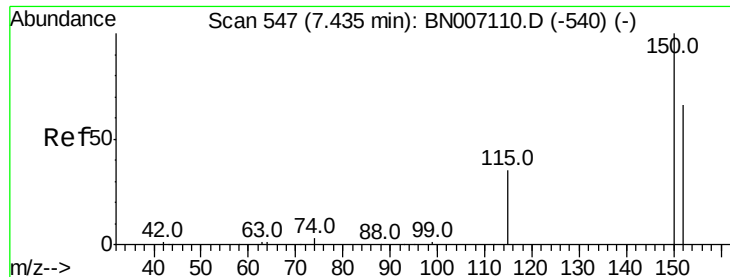
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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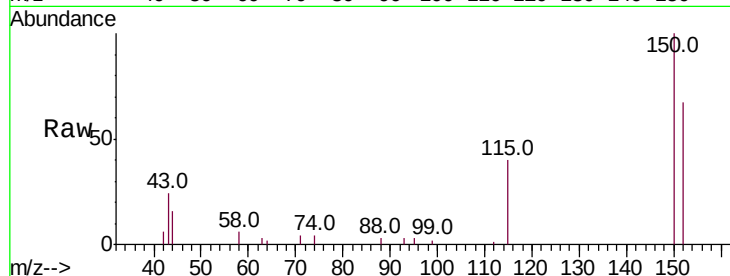


#1

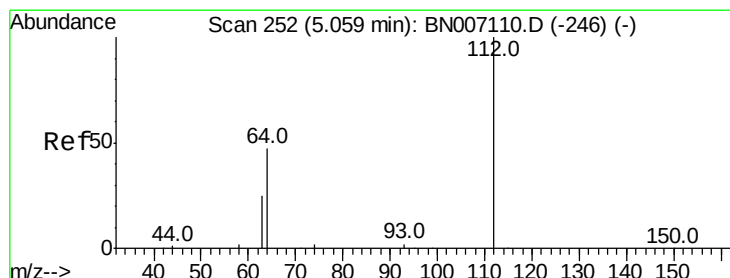
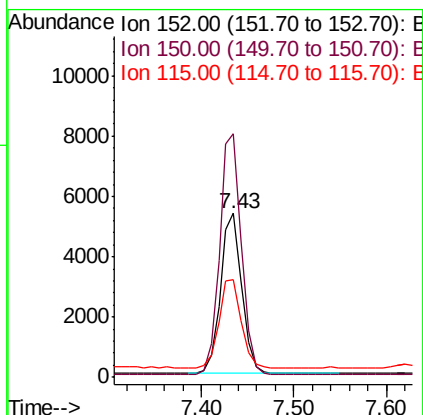
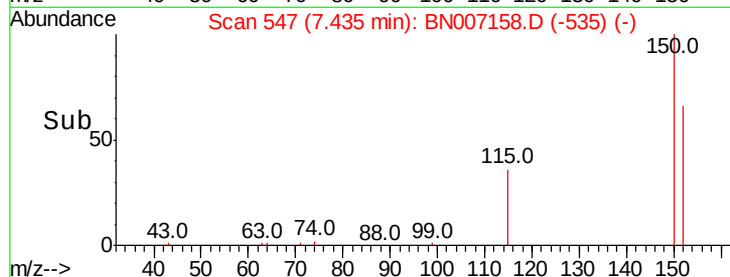
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007158.D
Acq: 14 Aug 2019 08:09

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 8446
Ion Ratio Lower Upper
152 100
150 148.3 121.7 182.5
115 59.3 46.2 69.4



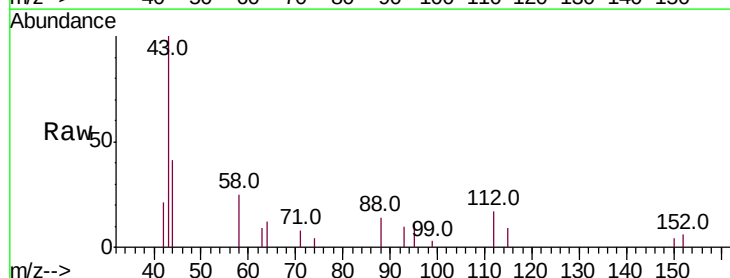
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



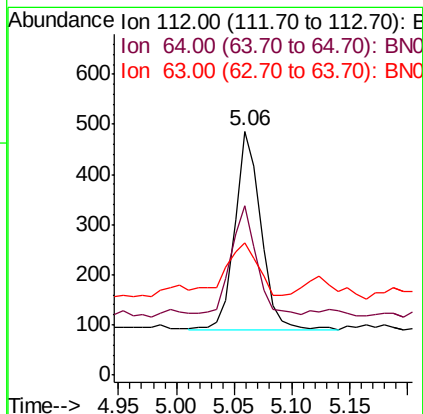
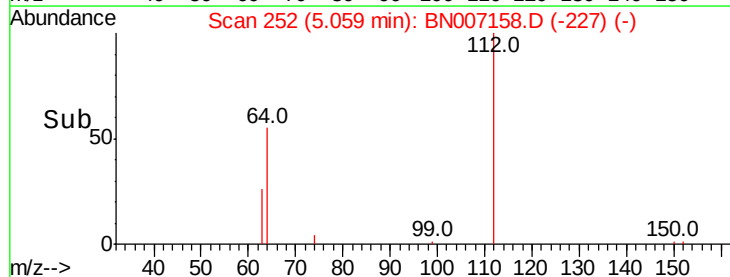
#3

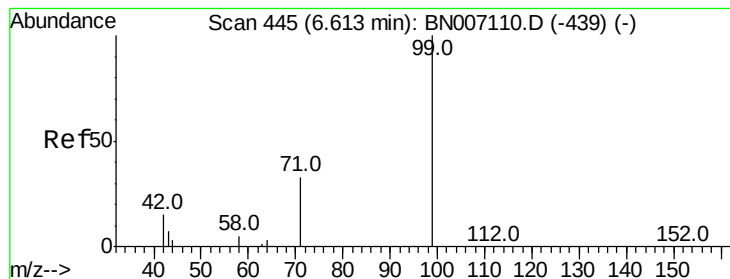
2-Fluorophenol
Concen: 0.030 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007158.D
Acq: 14 Aug 2019 08:09

Tgt Ion:112 Resp: 615
Ion Ratio Lower Upper
112 100
64 56.3 42.6 63.8
63 33.3 22.2 33.2#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BNC
Ion 63.00 (62.70 to 63.70): BNC





#4

Phenol-d6

Concen: 0.031 ng

RT: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

Instrument :

BNA_N

ClientSampleId :

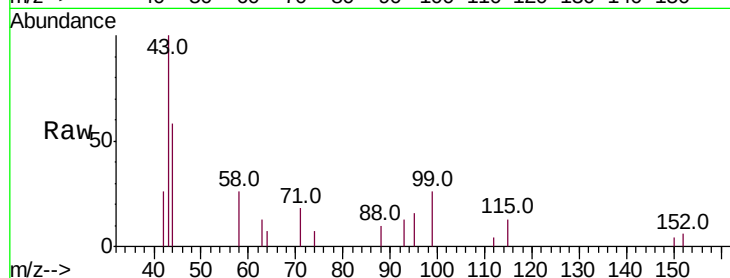
Tot Ion: 99 Resp: 772

Ion Ratio Lower Upper

99 100

42 64.1 15.8 23.6#

71 42.5 27.0 40.4#



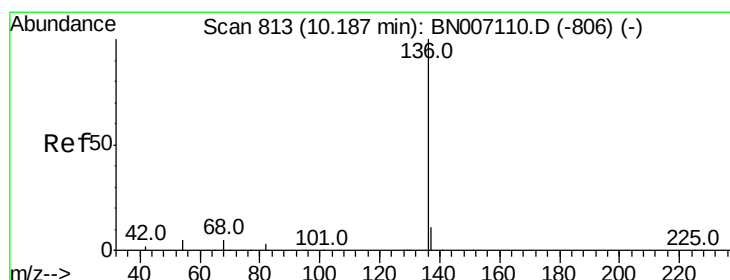
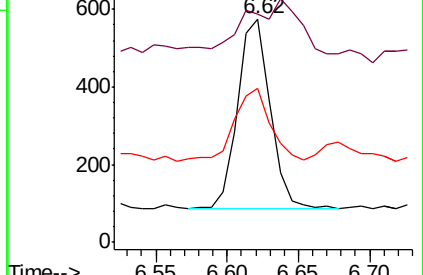
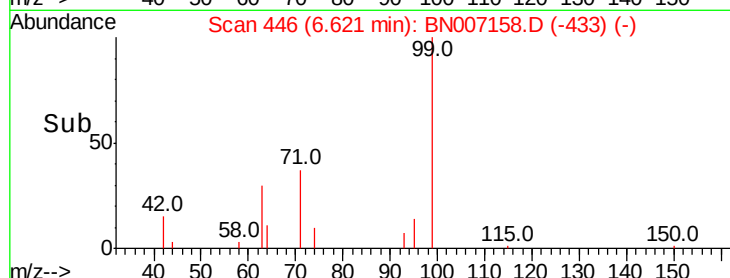
Abundance Ion 99.00 (98.70 to 99.70): BN007110.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007110.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007110.D (-439) (-)

6.62

Time-->



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

Tgt Ion: 136 Resp: 32434

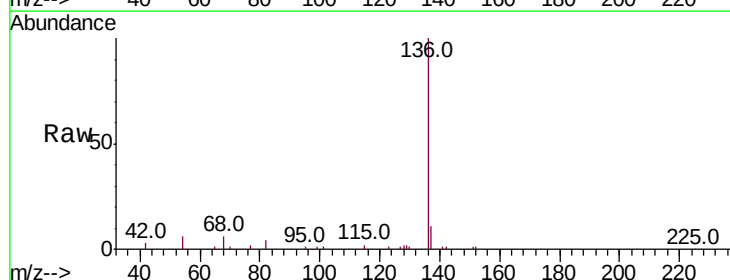
Ion Ratio Lower Upper

136 100

137 11.5 9.4 14.0

54 6.1 6.6 9.8#

68 5.8 6.0 9.0#



Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

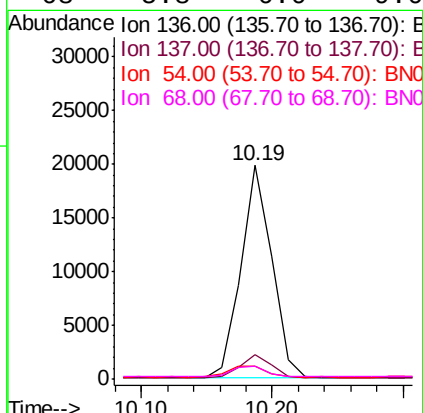
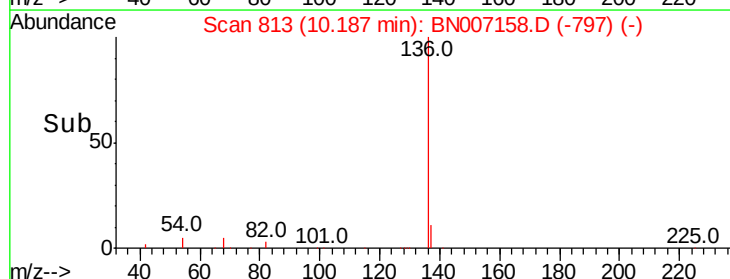
Ion 137.00 (136.70 to 137.70): BN007110.D (-806) (-)

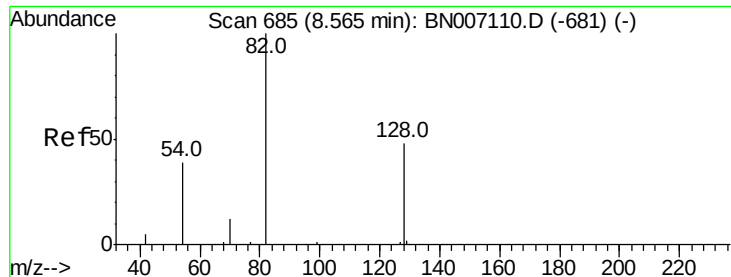
Ion 54.00 (53.70 to 54.70): BN007110.D (-806) (-)

Ion 68.00 (67.70 to 68.70): BN007110.D (-806) (-)

10.19

Time-->





#7

Nitrobenzene-d5

Concen: 0.027 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

Instrument :

BNA_N

ClientSampleId :

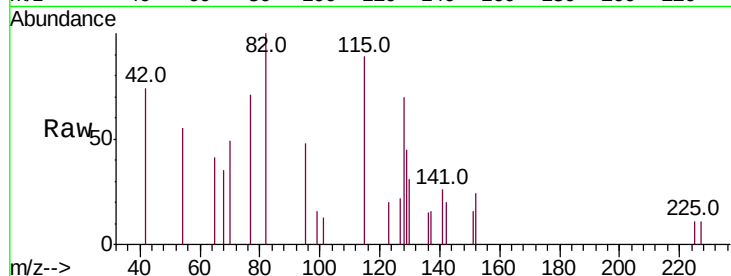
Tot Ion: 82 Resp: 696

Ion Ratio Lower Upper

82 100

128 69.6 34.6 51.8#

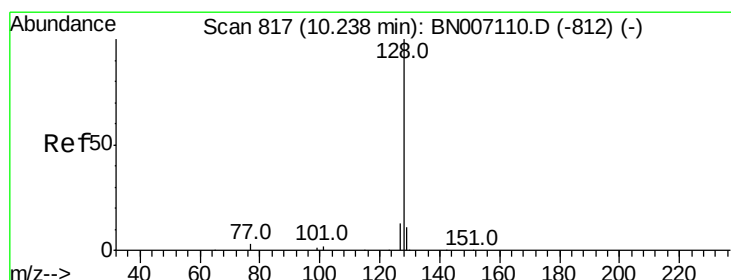
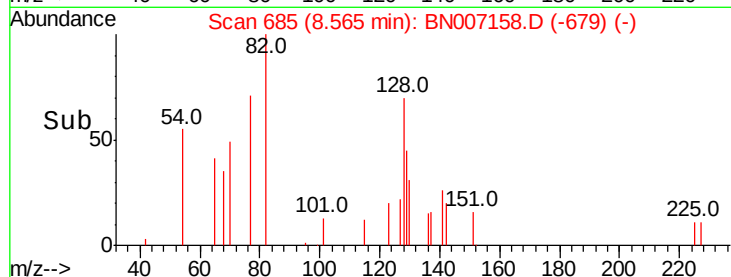
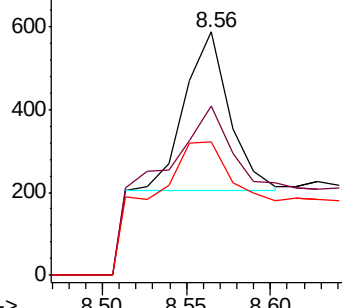
54 54.9 36.2 54.4#



Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

Ion 128.00 (127.70 to 128.70): BN007110.D (-681) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-681) (-)



#8

Naphthalene

Concen: 0.496 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

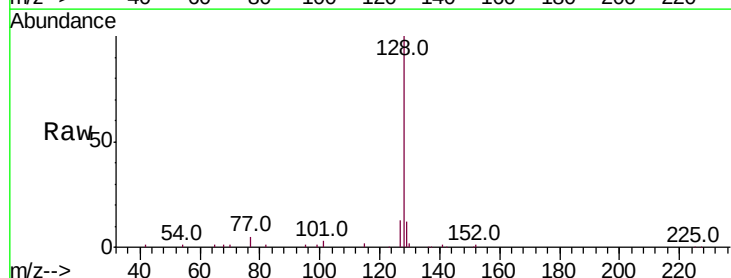
Tgt Ion: 128 Resp: 45083

Ion Ratio Lower Upper

128 100

129 11.9 9.4 14.2

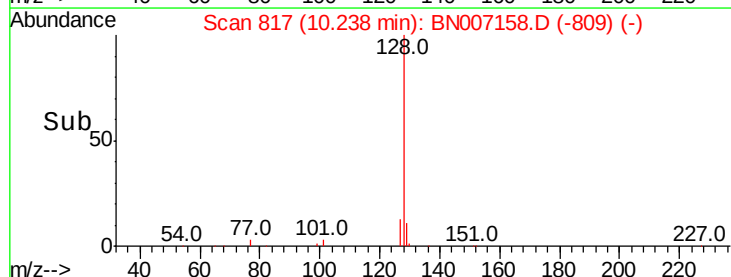
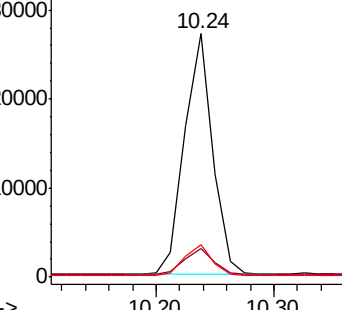
127 13.4 11.0 16.6

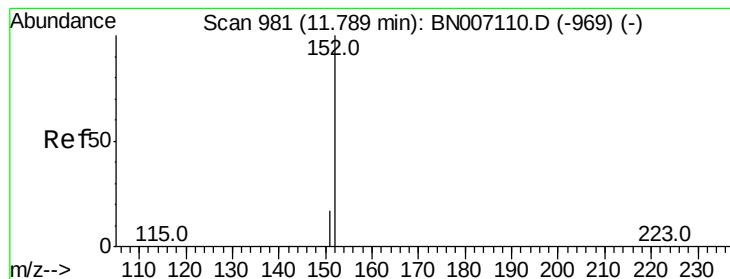


Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

Ion 129.00 (128.70 to 129.70): BN007110.D (-812) (-)

Ion 127.00 (126.70 to 127.70): BN007110.D (-812) (-)





#10

2-Methylnaphthalene-d10

Concen: 0.022 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

Instrument :

BNA_N

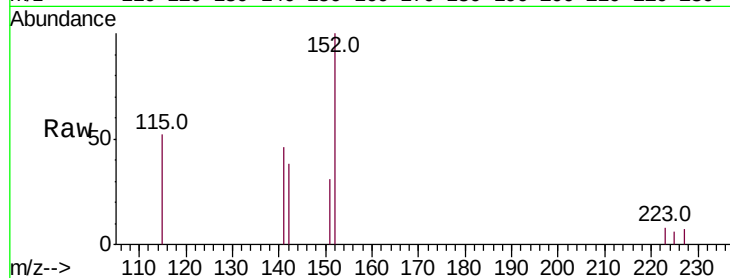
ClientSampled :

Tot Ion:152 Resp: 1347

Ion Ratio Lower Upper

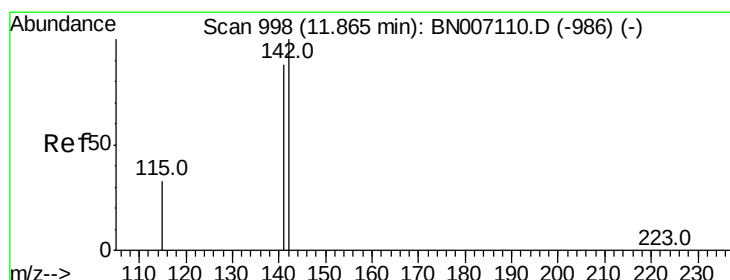
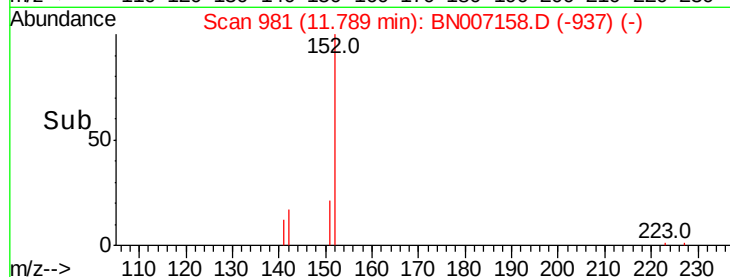
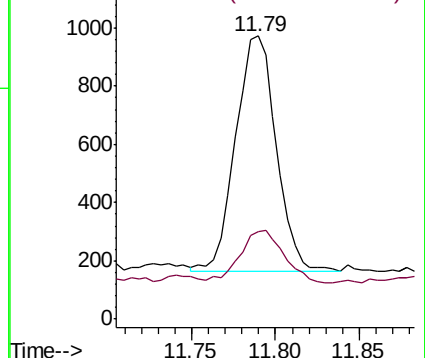
152 100

151 24.6 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: 0.981 ng

RT: 11.87 min Scan# 998

Delta R.T. -0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

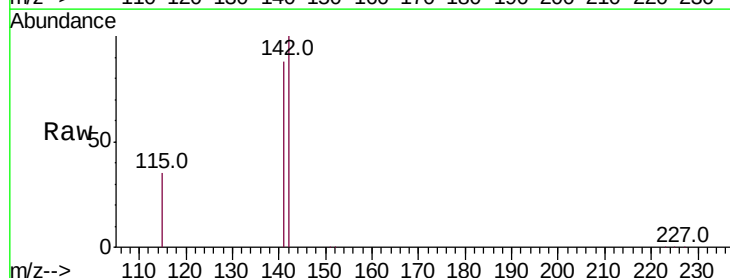
Tgt Ion:142 Resp: 63229

Ion Ratio Lower Upper

142 100

141 87.9 69.0 103.6

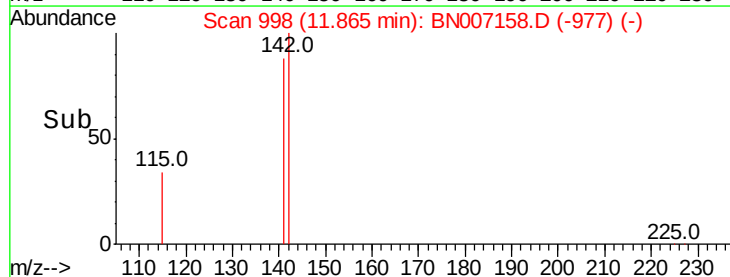
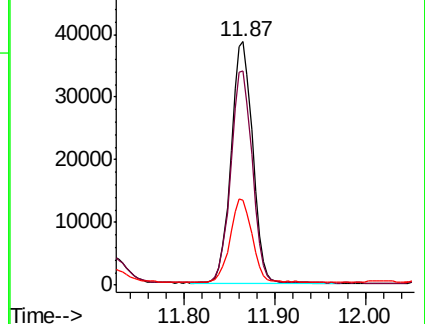
115 34.9 27.1 40.7

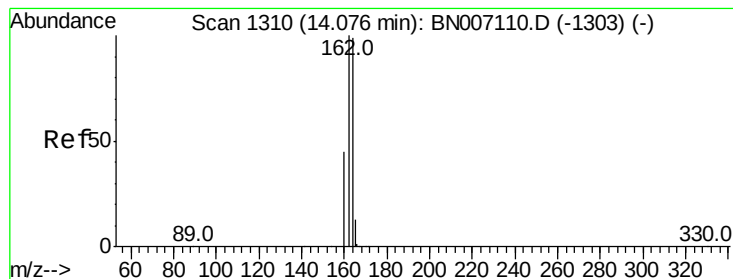


Abundance Ion 142.00 (141.70 to 142.70): E

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: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

Instrument :

BNA_N

ClientSampleId :

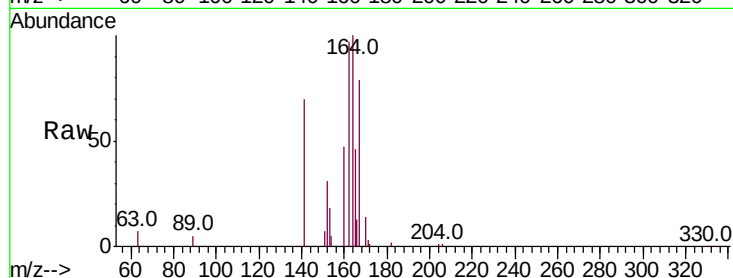
Tot Ion:164 Resp: 20163

Ion Ratio Lower Upper

164 100

162 96.5 82.2 123.4

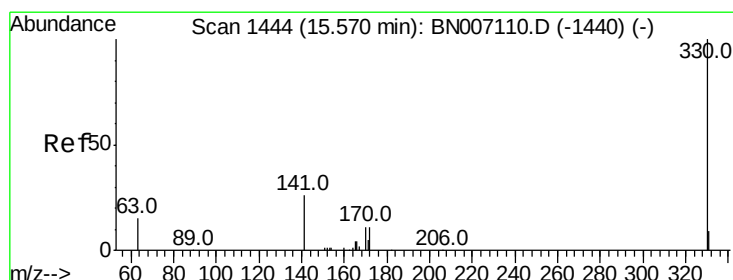
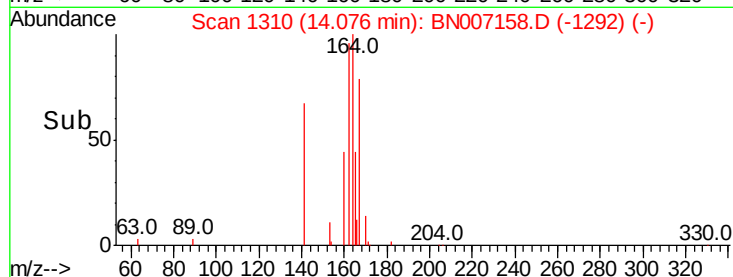
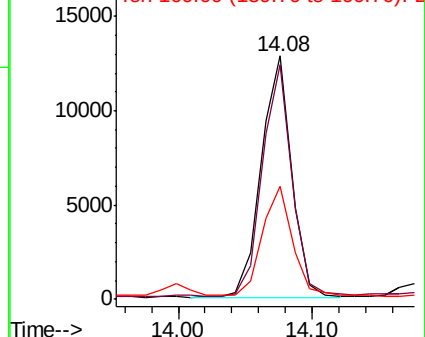
160 46.7 38.3 57.5



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: 0.025 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

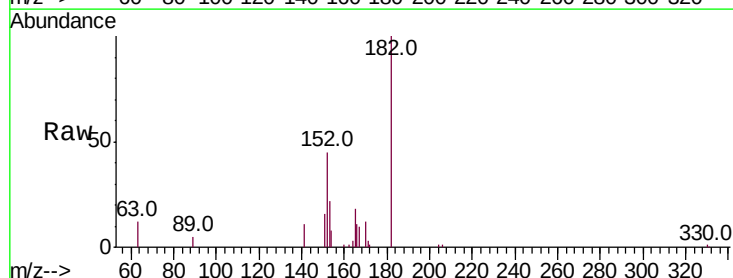
Tgt Ion:330 Resp: 268

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

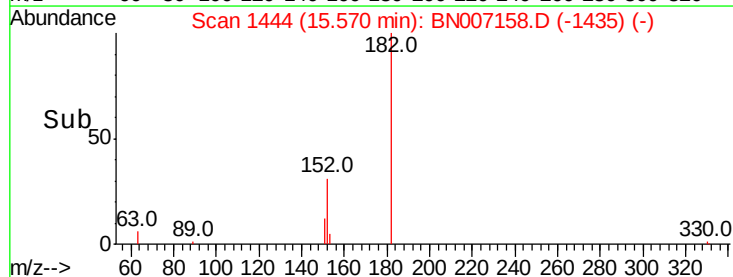
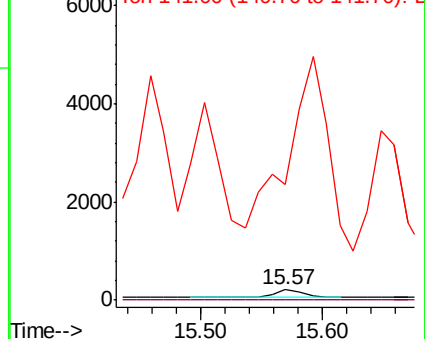
141 0.0 33.6 50.4#

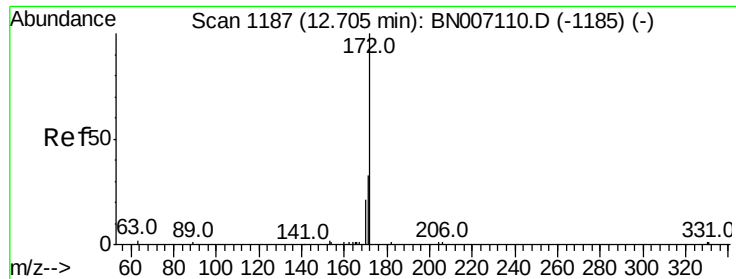


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

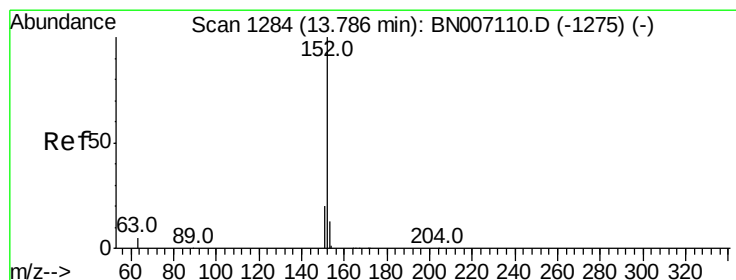
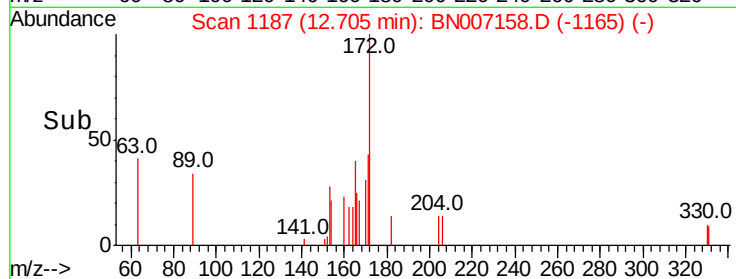
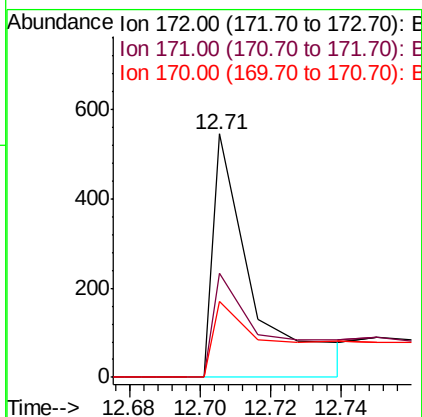
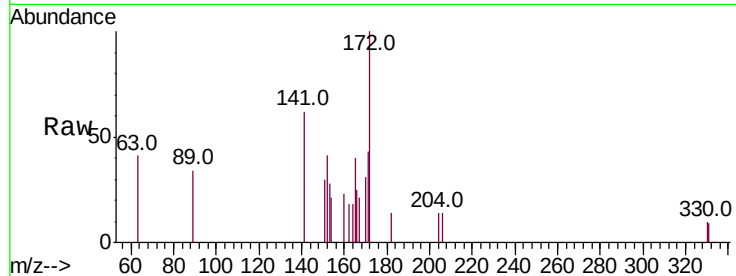




#14
2-Fluorobiphenyl
Concen: 0.014 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007158.D
Acq: 14 Aug 2019 08:09

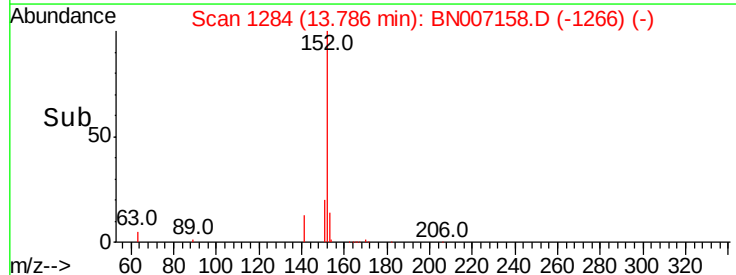
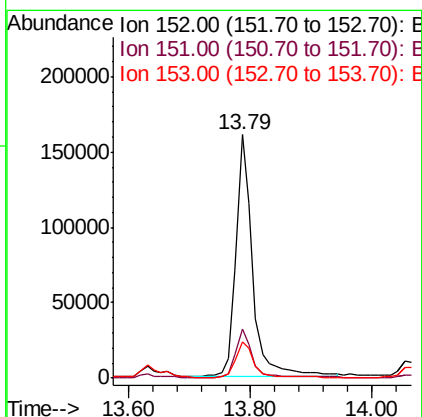
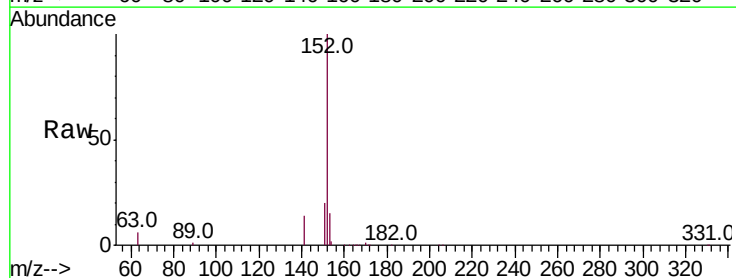
Instrument :
BNA_N
ClientSampleId :

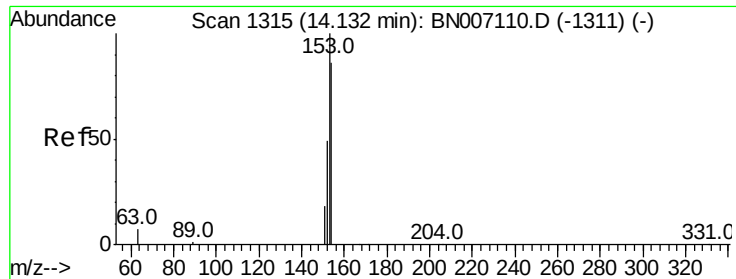
Tot Ion:172 Resp: 424
Ion Ratio Lower Upper
172 100
171 42.9 26.3 39.5#
170 31.2 17.0 25.4#



#15
Acenaphthylene
Concen: 2.858 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007158.D
Acq: 14 Aug 2019 08:09

Tgt Ion:152 Resp: 301193
Ion Ratio Lower Upper
152 100
151 20.1 15.8 23.6
153 15.3 10.4 15.6





#16

Acenaphthene

Concen: 1.383 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

Instrument :

BNA_N

ClientSampleId :

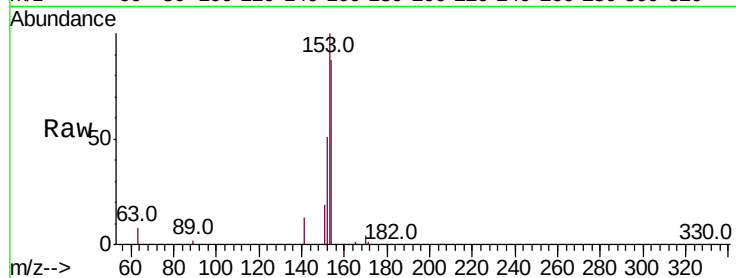
Tot Ion:154 Resp: 93388

Ion Ratio Lower Upper

154 100

153 122.4 89.5 134.3

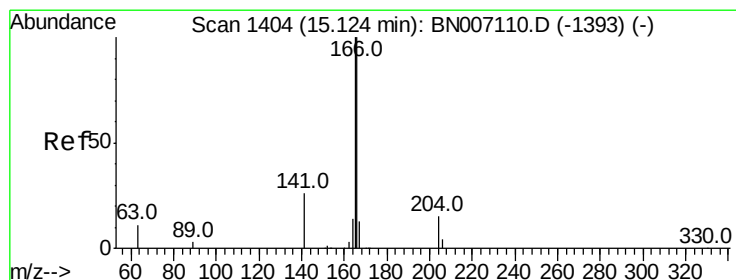
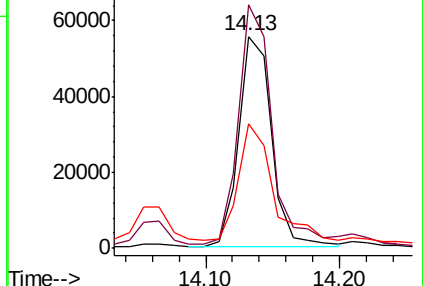
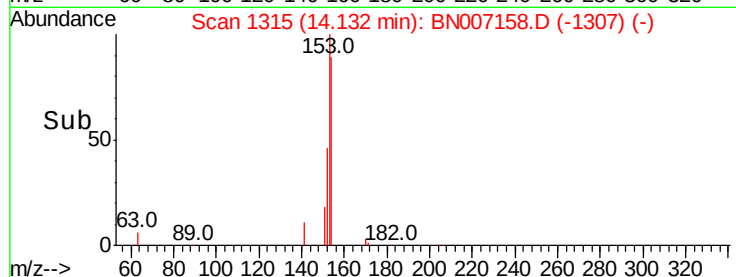
152 57.8 44.8 67.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#17

Fluorene

Concen: 1.756 ng

RT: 15.13 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

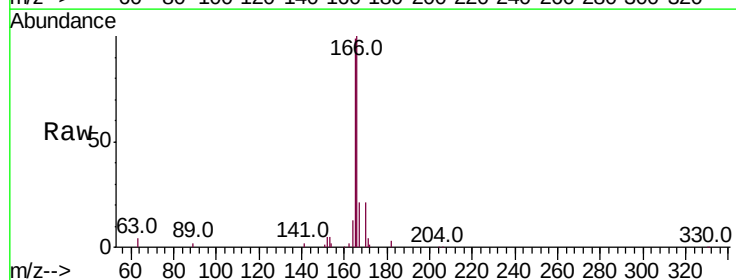
Tgt Ion:166 Resp: 177335

Ion Ratio Lower Upper

166 100

165 109.0 77.9 116.9

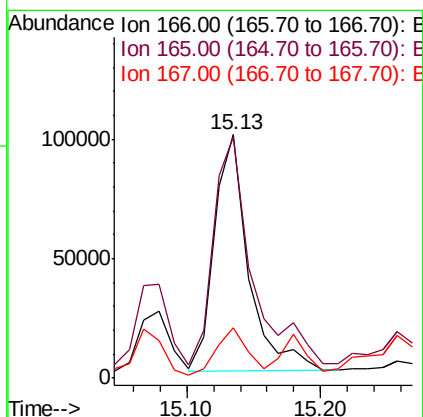
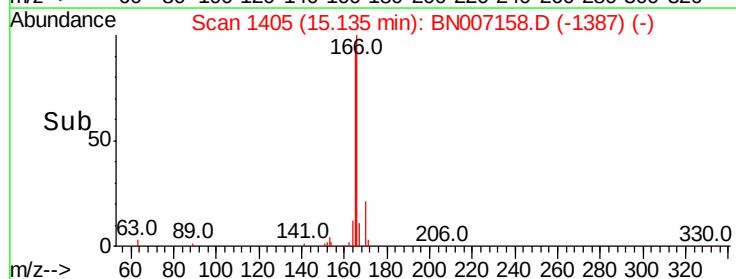
167 18.2 10.9 16.3#

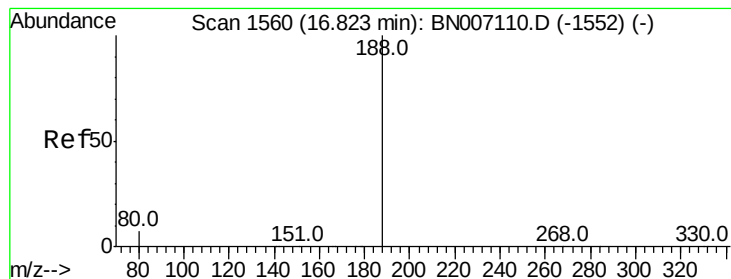


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

Instrument :

BNA_N

ClientSampleId :

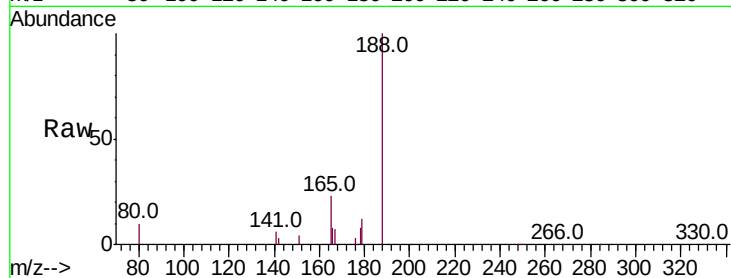
Tot Ion:188 Resp: 41352

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

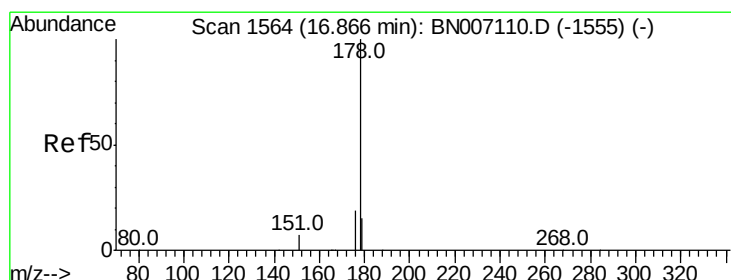
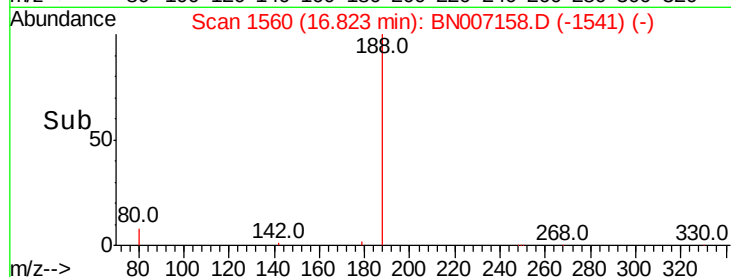
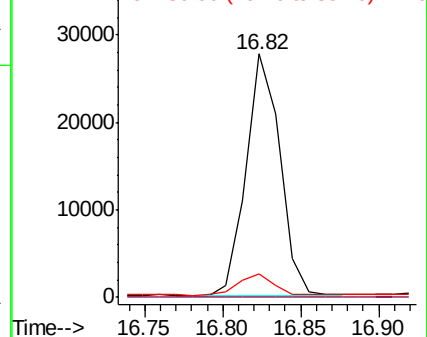
80 9.5 7.8 11.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#22

Phenanthrene

Concen: 34.864 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

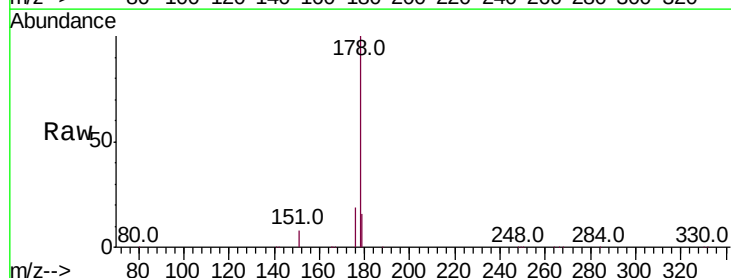
Tgt Ion:178 Resp: 4320670

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

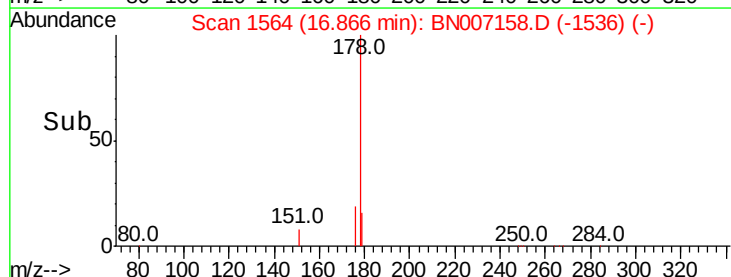
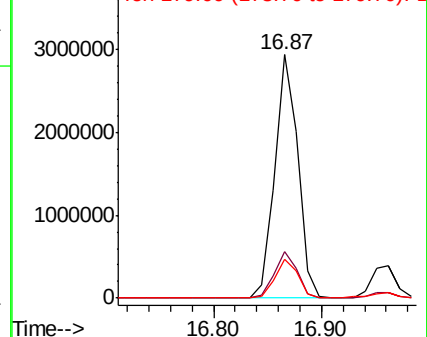
179 16.2 12.3 18.5

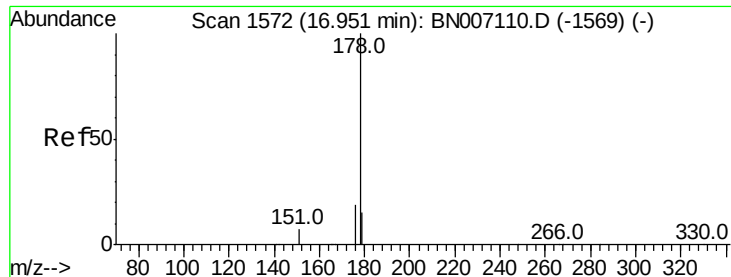


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 5.291 ng

RT: 16.96 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

Instrument :

BNA_N

ClientSampleId :

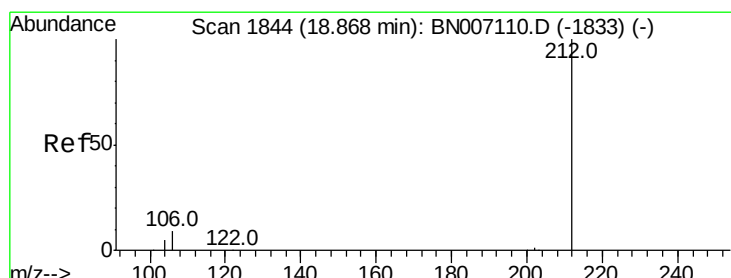
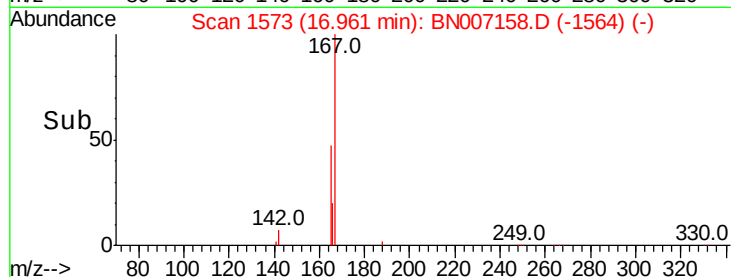
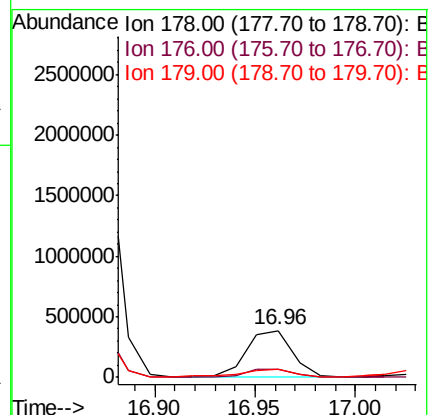
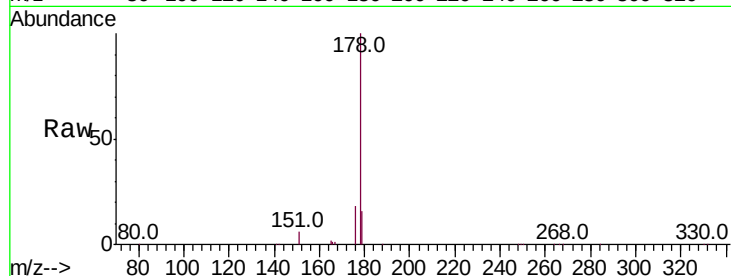
Tot Ion:178 Resp: 599071

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

179 17.2 12.5 18.7



#24

Fluoranthene-d10

Concen: 0.053 ng

RT: 18.84 min Scan# 1839

Delta R.T. -0.03 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

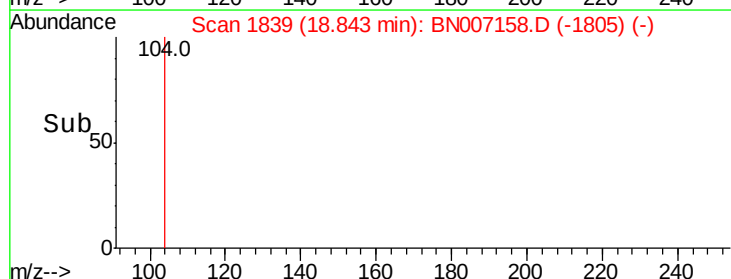
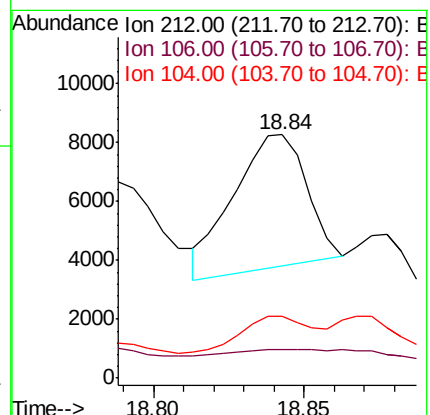
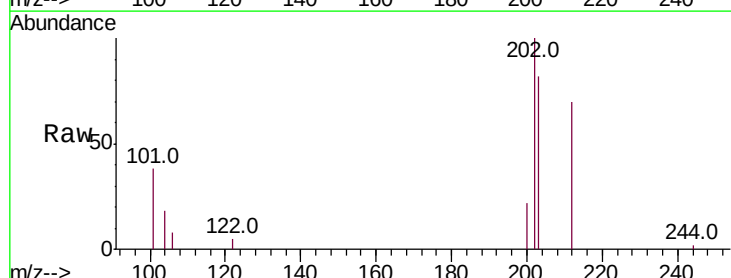
Tgt Ion:212 Resp: 7767

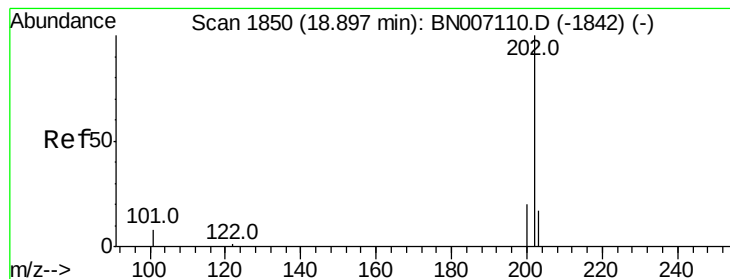
Ion Ratio Lower Upper

212 100

106 14.0 8.2 12.2#

104 28.3 4.5 6.7#





#25

Fluoranthene

Concen: 27.563 ng

RT: 18.90 min Scan# 1851

Delta R.T. -0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

Instrument :

BNA_N

ClientSampleId :

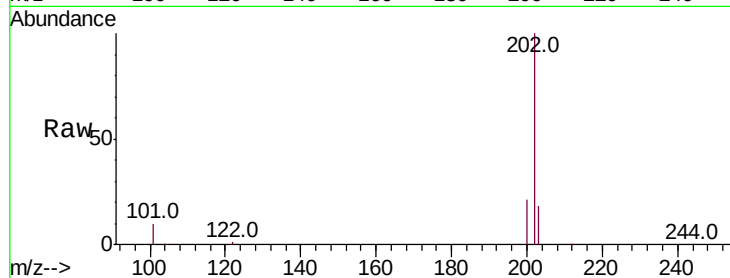
Tot Ion:202 Resp: 4369541

Ion Ratio Lower Upper

202 100

101 9.3 7.0 10.4

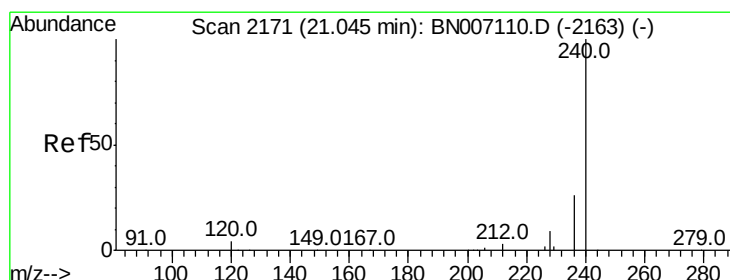
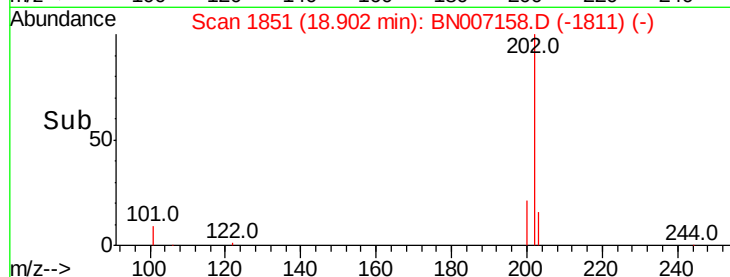
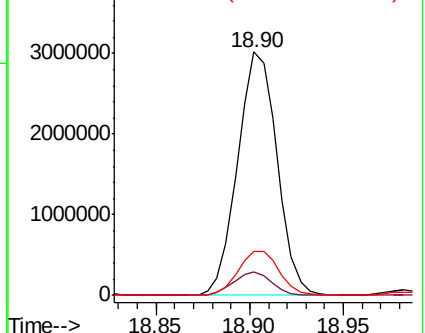
203 18.6 13.8 20.8



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: 21.05 min Scan# 2171

Delta R.T. -0.01 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

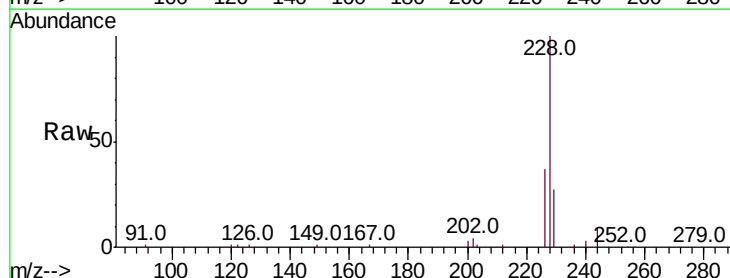
Tgt Ion:240 Resp: 43113

Ion Ratio Lower Upper

240 100

120 18.9 4.0 6.0#

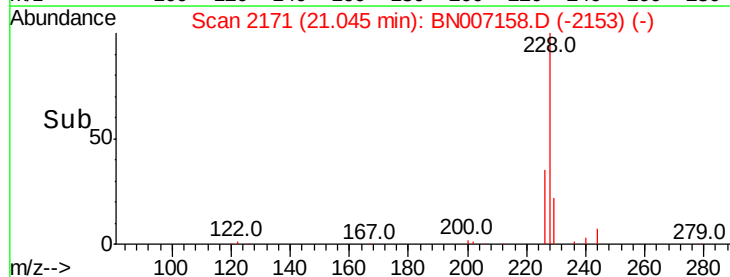
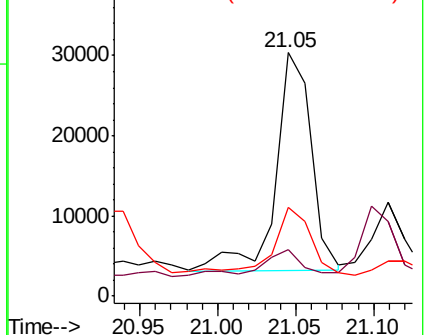
236 36.4 21.3 31.9#

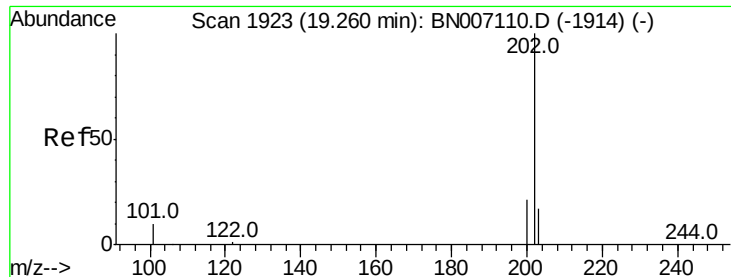


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

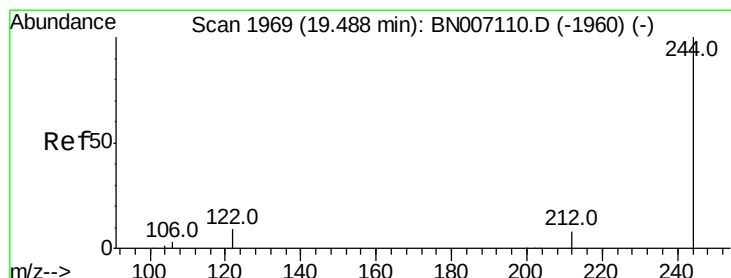
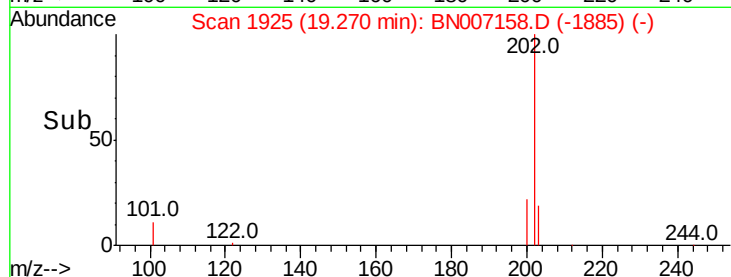
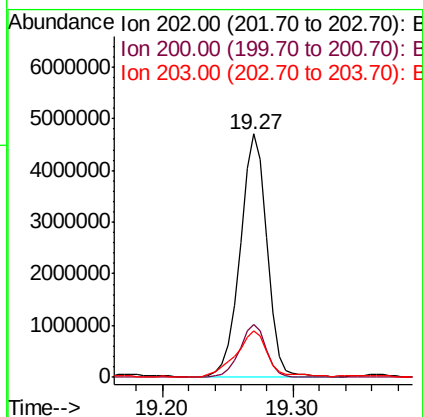
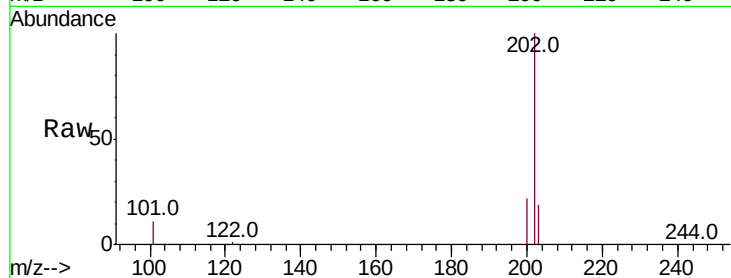




#27
 Pvrene
 Concen: 44.525 ng
 RT: 19.27 min Scan# 1925
 Delta R.T. -0.00 min
 Lab File: BN007158.D
 Acq: 14 Aug 2019 08:09

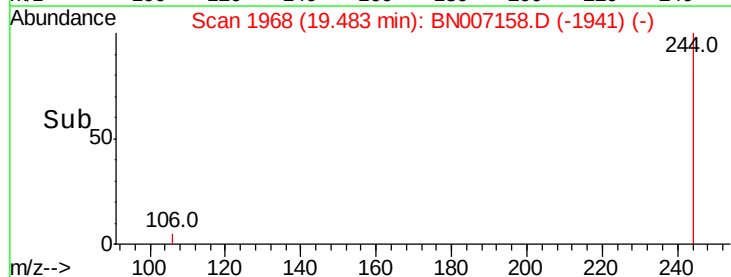
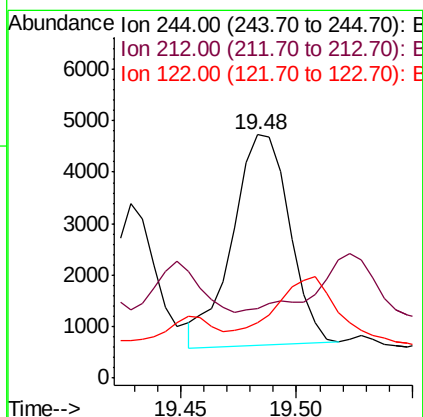
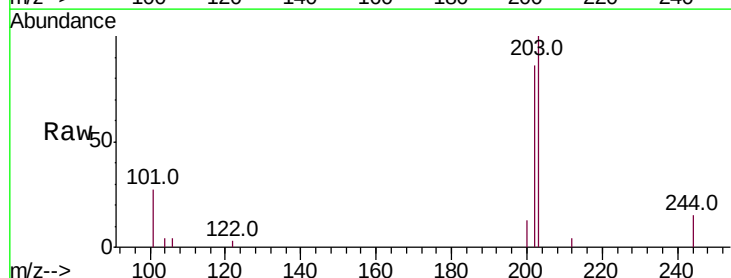
Instrument :
 BNA_N
 ClientSampleId :

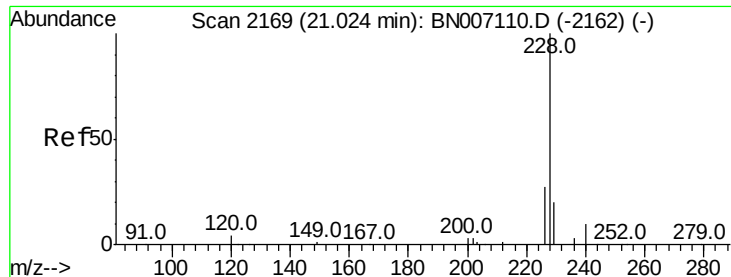
Tot Ion:202 Resp: 6731905
 Ion Ratio Lower Upper
 202 100
 200 21.5 16.6 24.8
 203 22.9 14.0 21.0#



#28
 Terphenyl-d14
 Concen: 0.059 ng
 RT: 19.48 min Scan# 1968
 Delta R.T. -0.02 min
 Lab File: BN007158.D
 Acq: 14 Aug 2019 08:09

Tgt Ion:244 Resp: 6966
 Ion Ratio Lower Upper
 244 100
 212 28.5 6.2 9.2#
 122 22.6 7.4 11.2#





#29

Benzo(a)anthracene

Concen: 19.567 ng

RT: 21.03 min Scan# 2170

Delta R.T. -0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

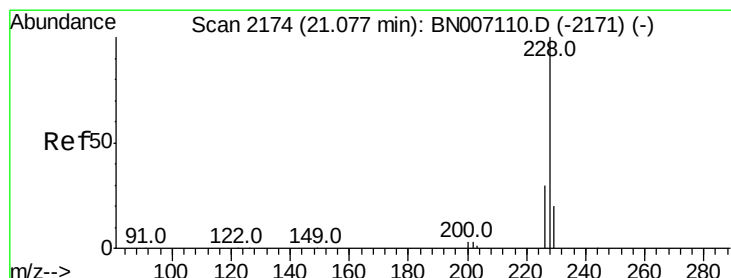
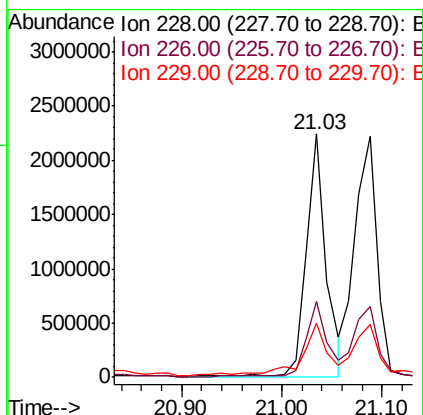
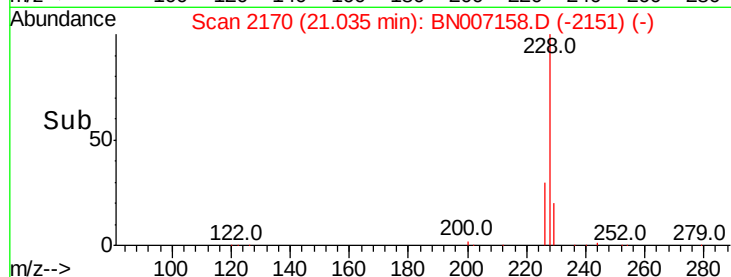
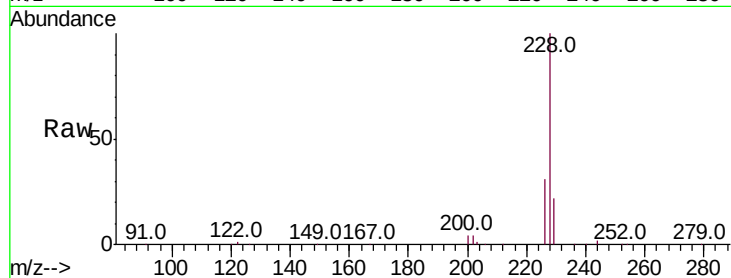
Instrument :

BNA_N

ClientSampleId :

Tot Ion:228 Resp: 3085054

Ion	Ratio	Lower	Upper
228	100		
226	31.0	21.8	32.6
229	22.1	15.6	23.4



#30

Chrysene

Concen: 22.110 ng

RT: 21.09 min Scan# 2175

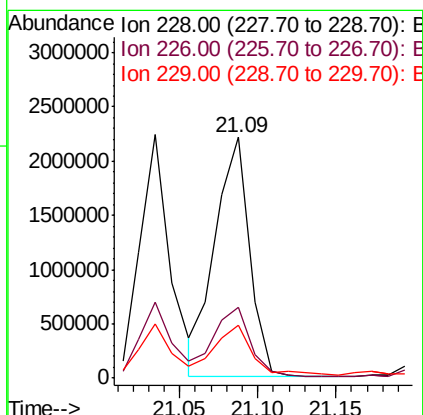
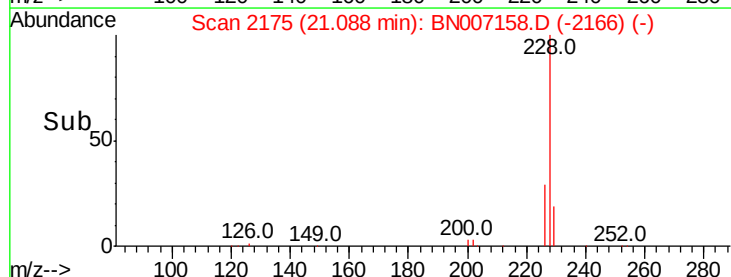
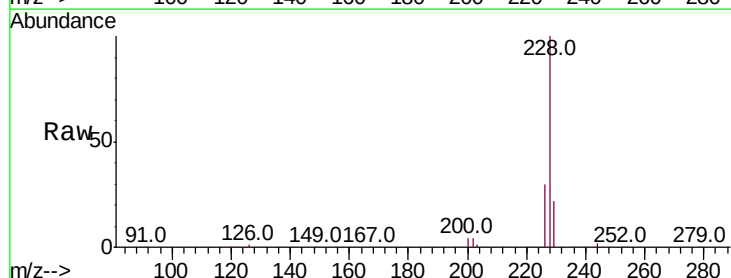
Delta R.T. -0.00 min

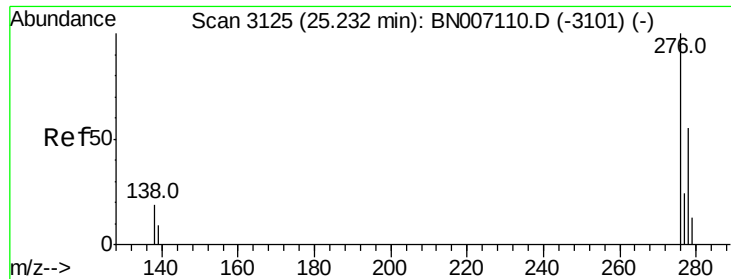
Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

Tgt Ion:228 Resp: 3386921

Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.8	35.6
229	22.2	15.7	23.5





#31

Indeno(1,2,3-cd)pyrene

Concen: 8.358 ng

RT: 25.25 min Scan# 3131

Delta R.T. -0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

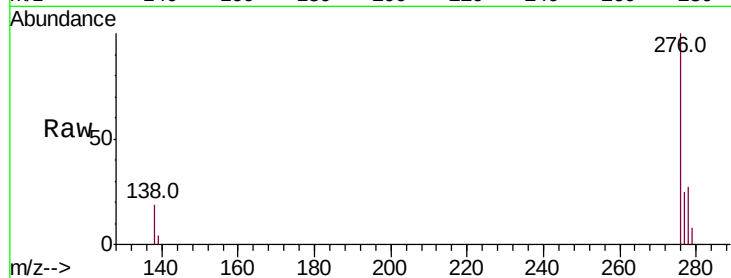
Instrument :

BNA_N

ClientSampleId :

Tot Ion:276 Resp: 1411116

Ion	Ratio	Lower	Upper
276	100		
138	18.6	16.0	24.0
277	25.0	19.9	29.9

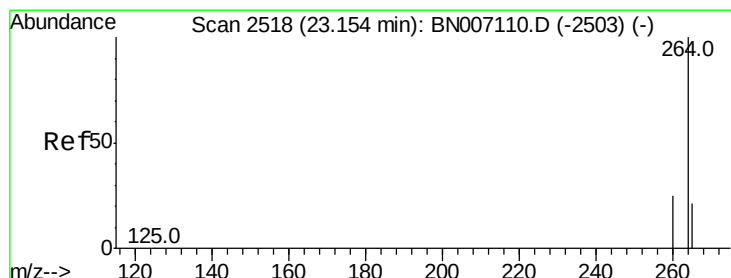
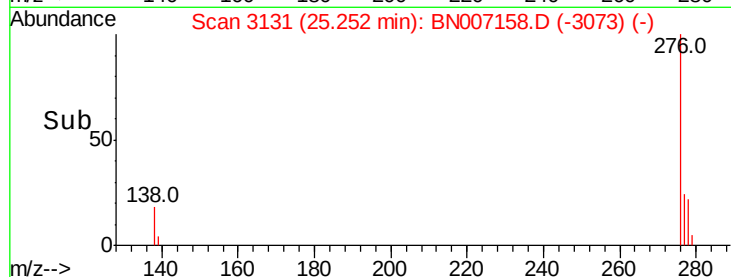
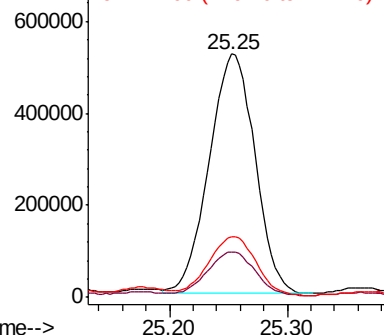


Abundance

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: 23.17 min Scan# 2522

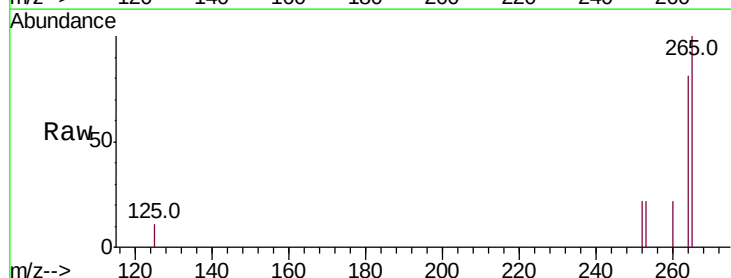
Delta R.T. -0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

Tgt Ion:264 Resp: 58707

Ion	Ratio	Lower	Upper
264	100		
260	26.8	19.8	29.8
265	124.1	26.2	39.4

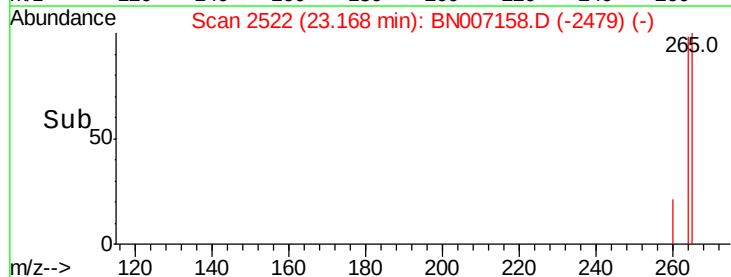
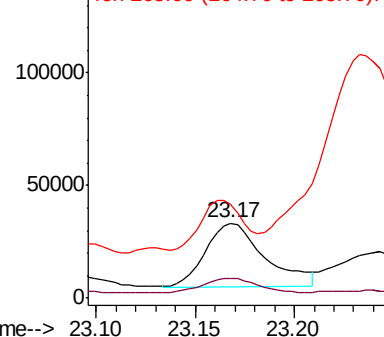


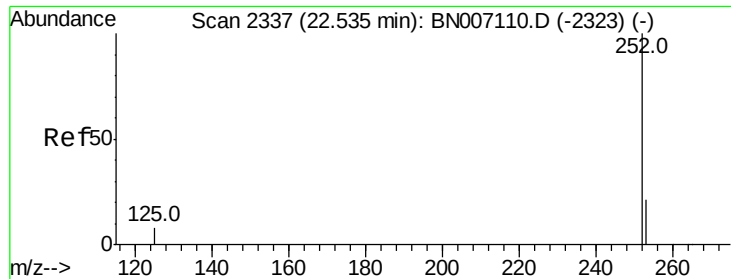
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 14.236 ng

RT: 22.55 min Scan# 2342

Delta R.T. 0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

Instrument :

BNA_N

ClientSampleId :

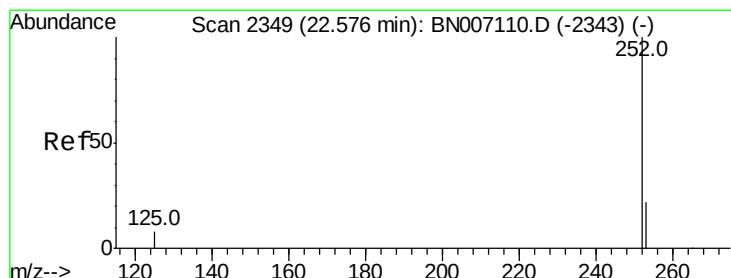
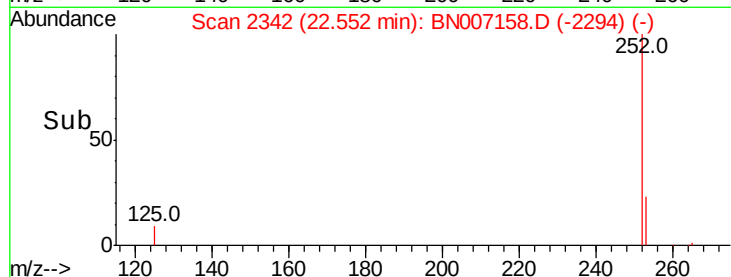
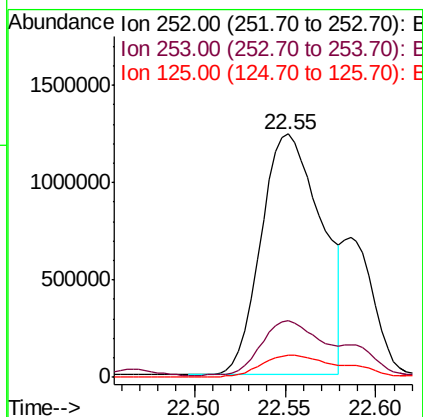
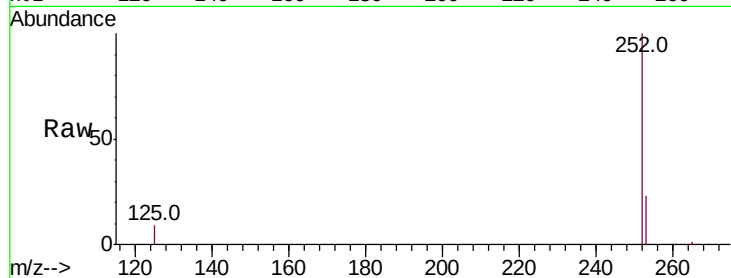
Tot Ion:252 Resp: 2865768

Ion Ratio Lower Upper

252 100

253 23.1 18.2 27.2

125 9.1 7.4 11.0



#34

Benzo(k)fluoranthene

Concen: 14.414 ng

RT: 22.55 min Scan# 2342

Delta R.T. -0.04 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

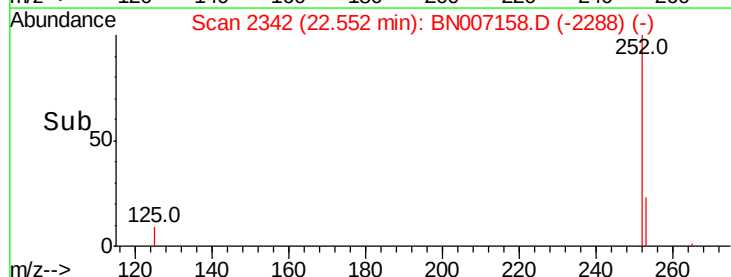
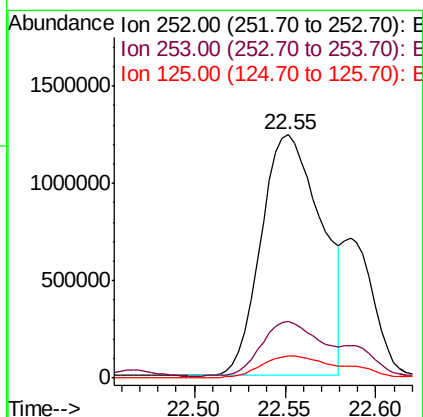
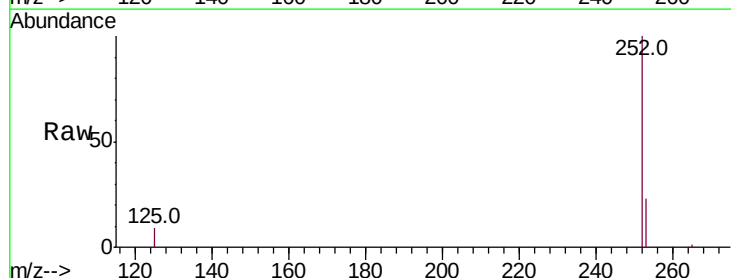
Tgt Ion:252 Resp: 2865768

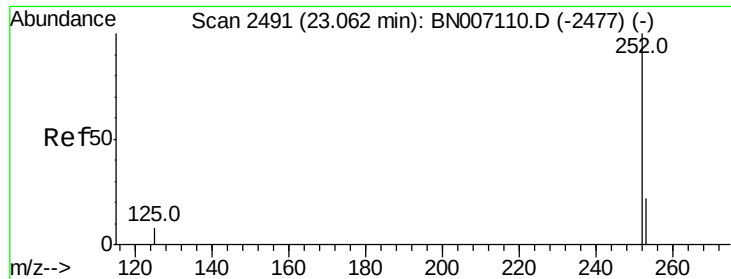
Ion Ratio Lower Upper

252 100

253 23.1 18.1 27.1

125 9.1 7.4 11.0





#35

Benzo(a)pyrene

Concen: 13.152 ng

RT: 23.08 min Scan# 2496

Delta R.T. -0.00 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

Instrument :

BNA_N

ClientSampleId :

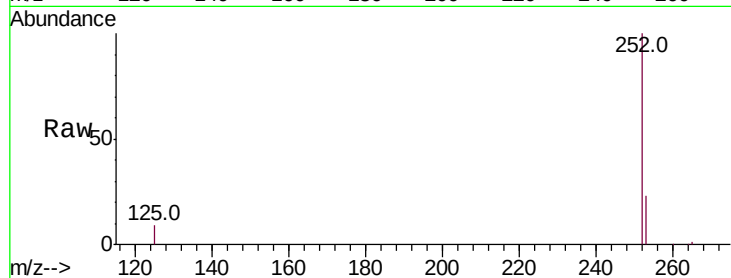
Tot Ion:252 Resp: 2400262

Ion Ratio Lower Upper

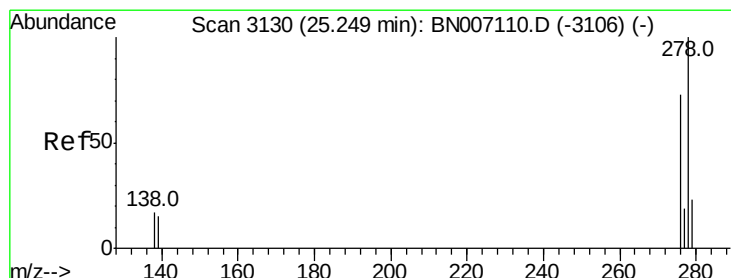
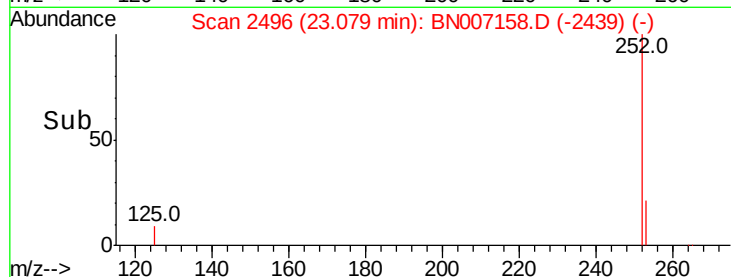
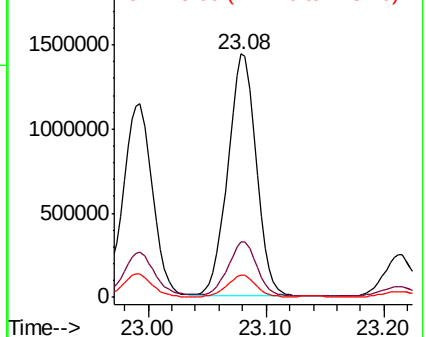
252 100

253 22.8 18.5 27.7

125 9.2 8.2 12.4



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#36

Dibenzo(a,h)anthracene

Concen: 2.486 ng

RT: 25.26 min Scan# 3133

Delta R.T. -0.01 min

Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

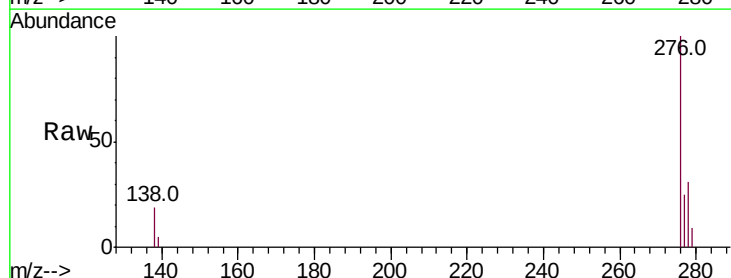
Tgt Ion:278 Resp: 452616

Ion Ratio Lower Upper

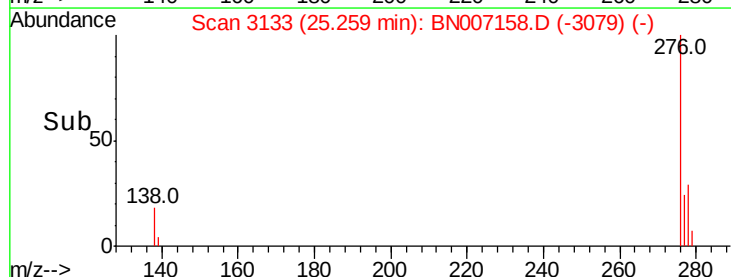
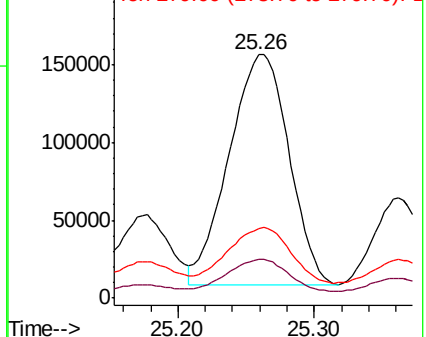
278 100

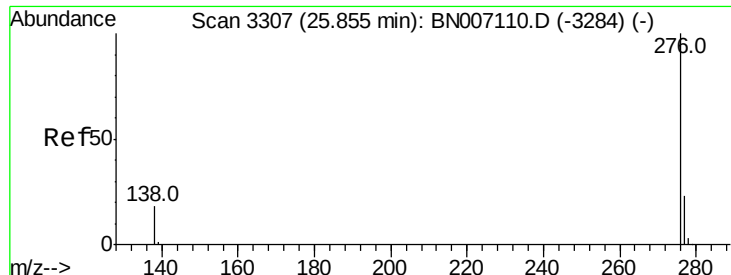
139 15.9 11.3 16.9

279 28.7 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(a,h,i)perylene

Concen: 9.079 ng

RT: 25.89 min Scan# 3317

Delta R.T. 0.01 min

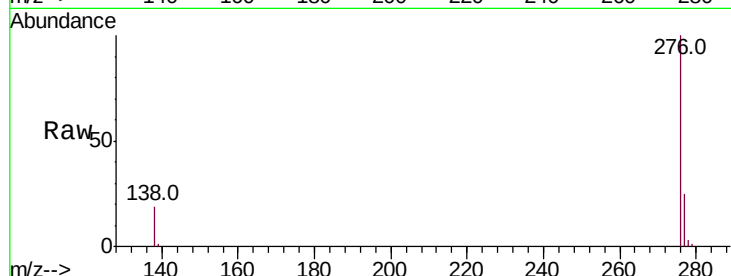
Lab File: BN007158.D

Acq: 14 Aug 2019 08:09

Instrument :

BNA_N

ClientSampleId :



Tot Ion:276 Resp: 1700631

Ion Ratio Lower Upper

276 100

277 24.6 19.8 29.8

138 18.5 14.6 22.0

Abundance Ion 276.00 (275.70 to 276.70): E
800000 Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

