

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
 Data File : BN007107.D
 Acq On : 12 Aug 2019 20:42
 Operator : HP/JU
 Sample : K4144-13
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 13 04:17:08 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Aug 10 21:44:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	8585	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	32891	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	19956	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	48483	0.40	ng	0.00
26) Chrysene-d12	21.04	240	47724	0.40	ng	-0.01
32) Perylene-d12	23.16	264	53953	0.40	ng	-0.01

System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	5858	0.28	ng	0.00
4) Phenol-d6	6.61	99	7970	0.31	ng	0.00
7) Nitrobenzene-d5	8.56	82	6504	0.25	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	15075	0.25	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2340	0.22	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	4007	0.14	ng	0.00
24) Fluoranthene-d10	18.87	212	40664	0.24	ng	0.00
28) Terphenyl-d14	19.49	244	32863	0.25	ng	-0.01

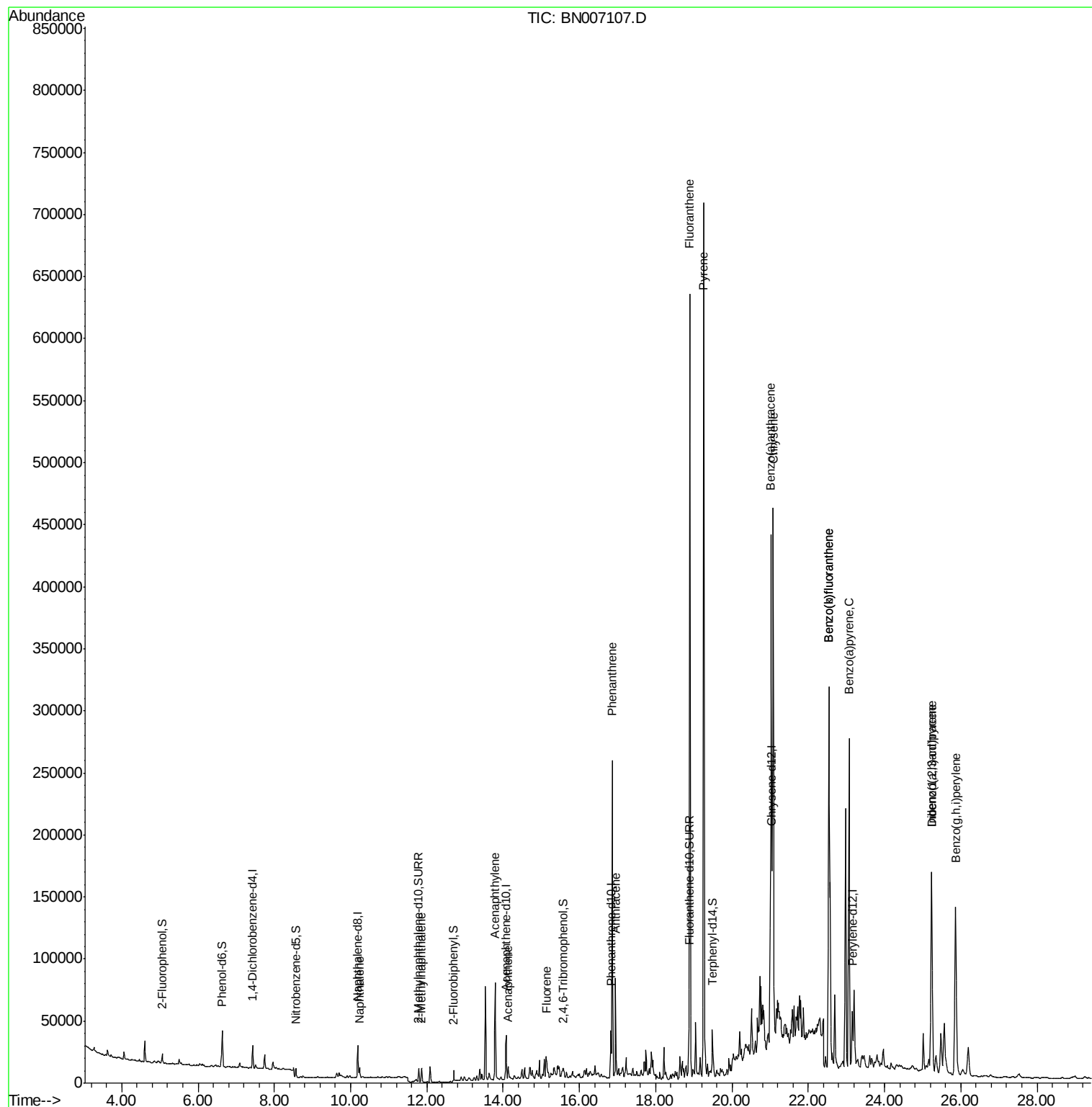
Target Compounds				Qvalue		
8) Naphthalene	10.24	128	10890	0.118	ng	97
11) 2-Methylnaphthalene	11.86	142	8179	0.125	ng	95
15) Acenaphthylene	13.79	152	95097	0.912	ng	99
16) Acenaphthene	14.13	154	5797	0.087	ng	# 93
17) Fluorene	15.13	166	13553	0.136	ng	# 76
22) Phenanthrene	16.87	178	260756	1.795	ng	100
23) Anthracene	16.95	178	84904	0.640	ng	98
25) Fluoranthene	18.90	202	571612	3.075	ng	99
27) Pyrene	19.26	202	656343	3.922	ng	98
29) Benzo(a)anthracene	21.02	228	322041	1.845	ng	92
30) Chrysene	21.08	228	401512	2.368	ng	97
31) Indeno(1,2,3-cd)pyrene	25.23	276	246777	1.320	ng	99
33) Benzo(b)fluoranthene	22.54	252	478876	2.588	ng	99
34) Benzo(k)fluoranthene	22.54	252	478876	2.621	ng	99
35) Benzo(a)pyrene	23.07	252	334164	1.992	ng	99
36) Dibenzo(a,h)anthracene	25.24	278	67894	0.406	ng	# 87
37) Benzo(a,h,i)perylene	25.86	276	270743	1.573	ng	99

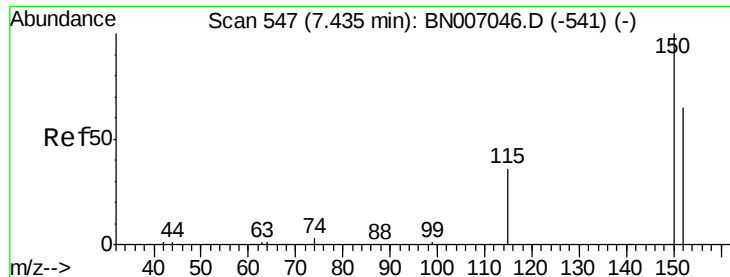
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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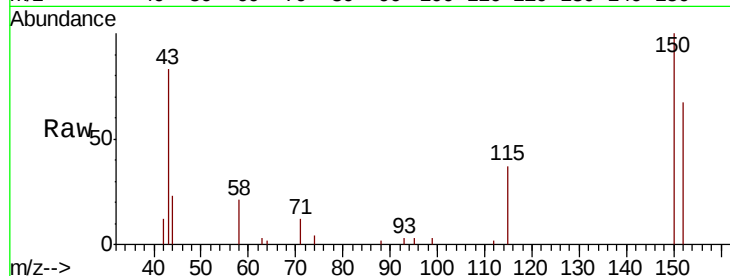


#1

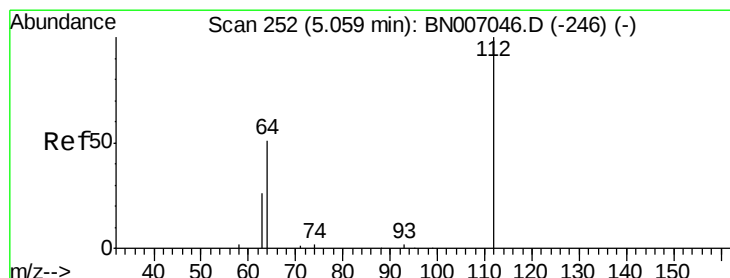
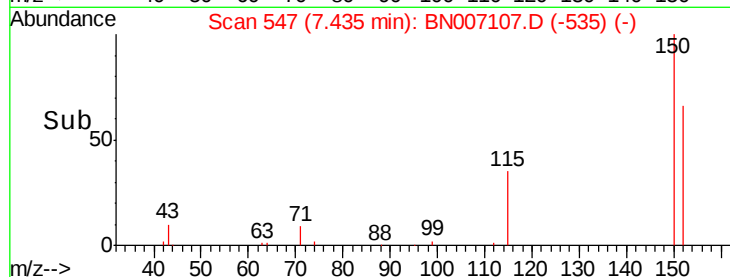
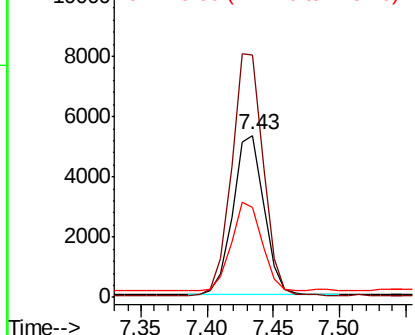
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007107.D
Acq: 12 Aug 2019 20:42

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 8585
Ion Ratio Lower Upper
152 100
150 149.6 121.7 182.5
115 56.0 46.2 69.4



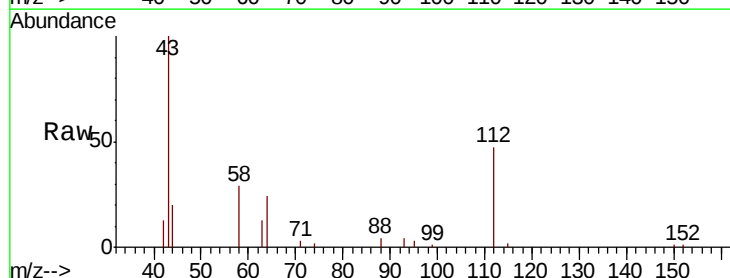
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



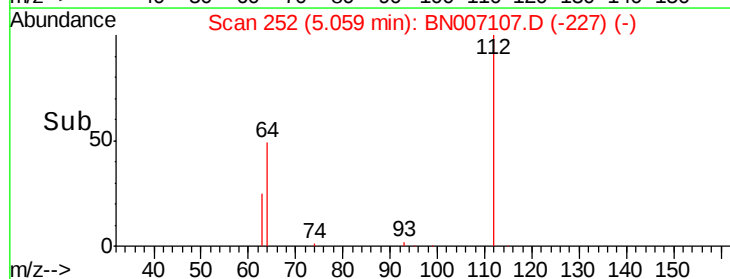
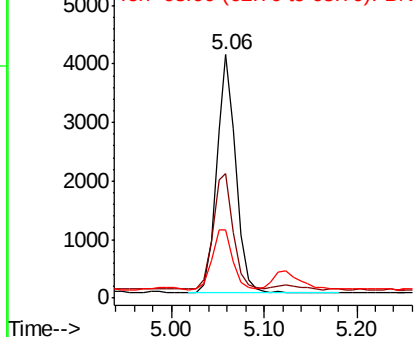
#3

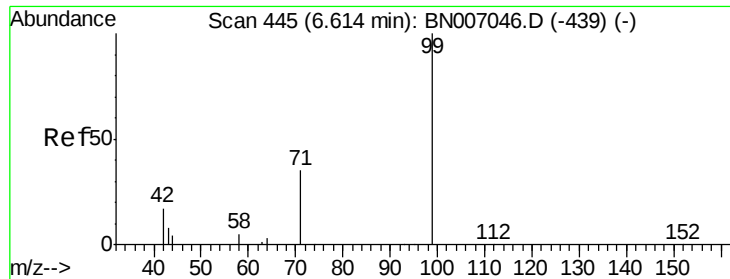
2-Fluorophenol
Concen: 0.284 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007107.D
Acq: 12 Aug 2019 20:42

Tgt Ion:112 Resp: 5858
Ion Ratio Lower Upper
112 100
64 50.7 42.6 63.8
63 27.1 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: 0.312 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

Instrument :

BNA_N

ClientSampleId :

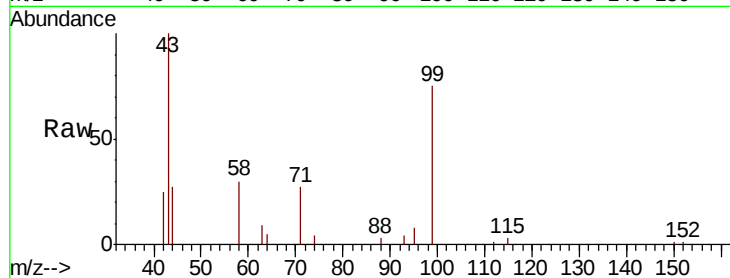
Tot Ion: 99 Resp: 7970

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

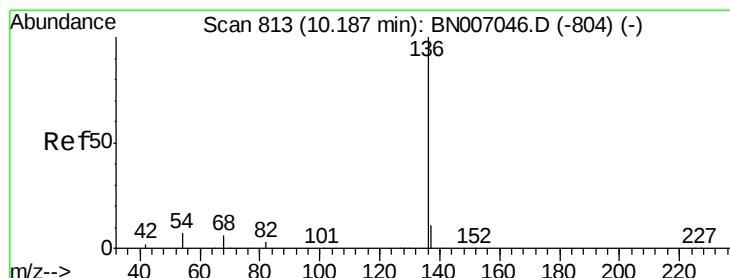
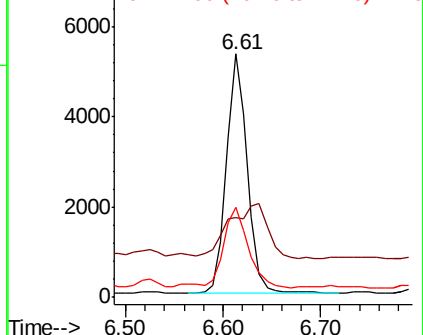
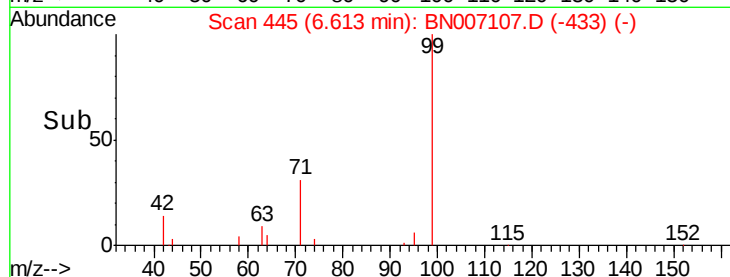
71 40.4 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007107.D (-433) (-)

Ion 42.00 (41.70 to 42.70): BN007107.D (-433) (-)

Ion 71.00 (70.70 to 71.70): BN007107.D (-433) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

Tgt Ion: 136 Resp: 32891

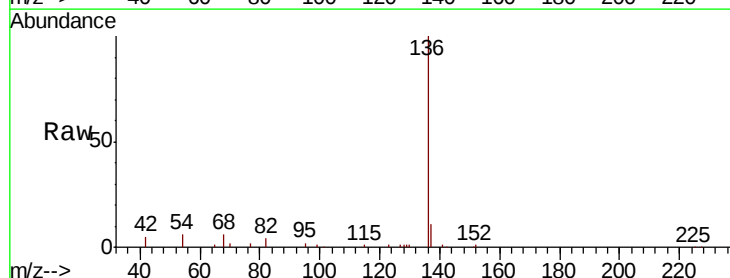
Ion Ratio Lower Upper

136 100

137 11.2 9.4 14.0

54 6.4 6.6 9.8#

68 5.9 6.0 9.0#

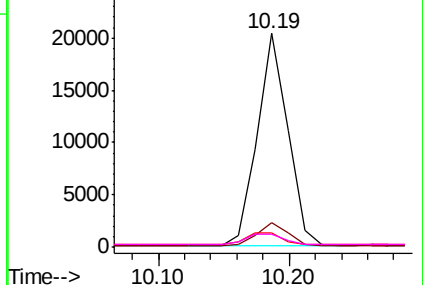
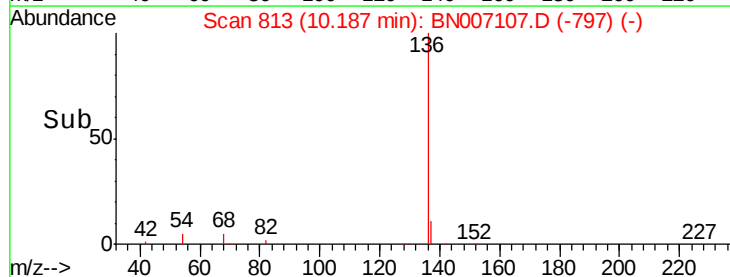


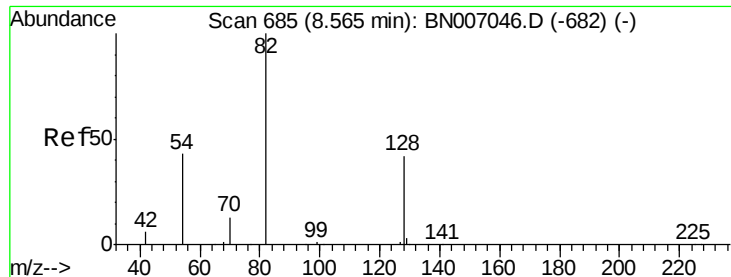
Abundance Ion 136.00 (135.70 to 136.70): BN007107.D (-797) (-)

Ion 137.00 (136.70 to 137.70): BN007107.D (-797) (-)

Ion 54.00 (53.70 to 54.70): BN007107.D (-797) (-)

Ion 68.00 (67.70 to 68.70): BN007107.D (-797) (-)





#7

Nitrobenzene-d5

Concen: 0.245 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

Instrument :

BNA_N

ClientSampleId :

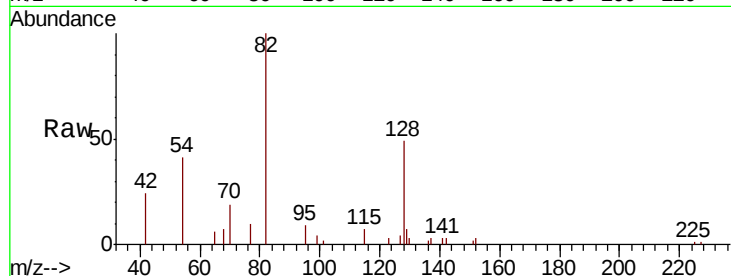
Tot Ion: 82 Resp: 6504

Ion Ratio Lower Upper

82 100

128 49.1 34.6 51.8

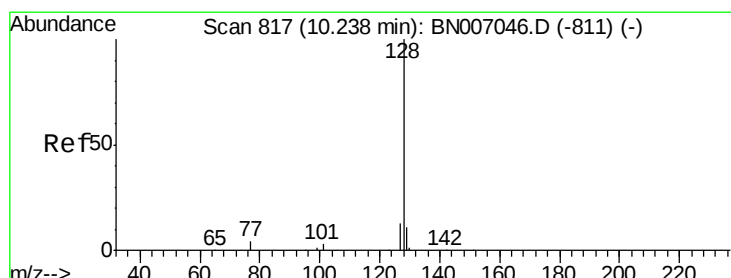
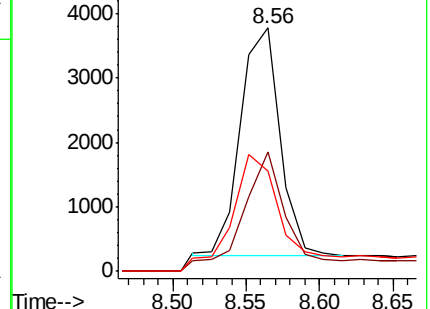
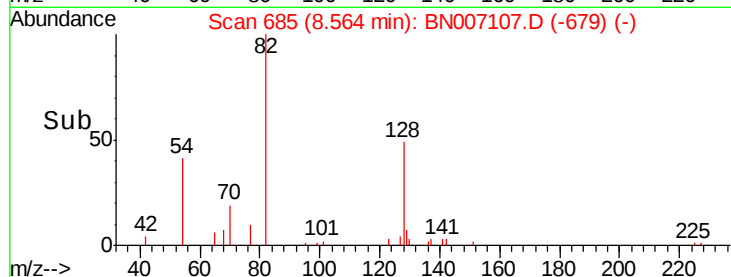
54 41.1 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007107.D (-679) (-)

Ion 128.00 (127.70 to 128.70): BN007107.D (-679) (-)

Ion 54.00 (53.70 to 54.70): BN007107.D (-679) (-)



#8

Naphthalene

Concen: 0.118 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

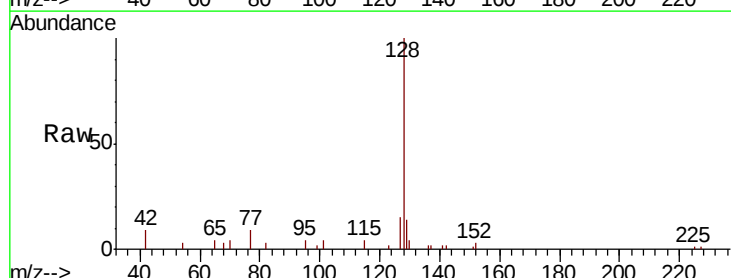
Tgt Ion: 128 Resp: 10890

Ion Ratio Lower Upper

128 100

129 13.6 9.4 14.2

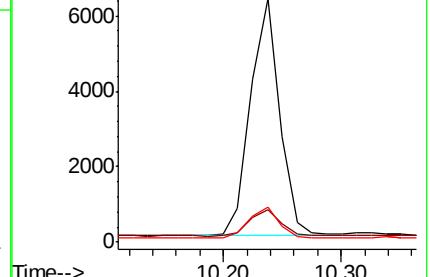
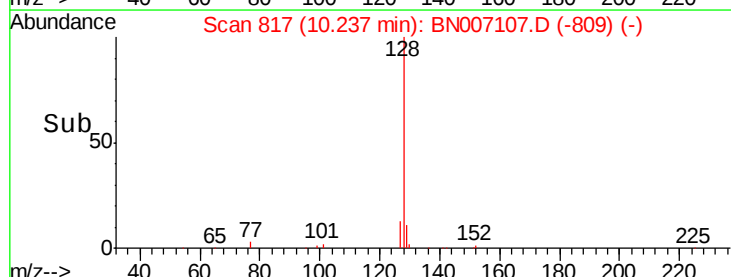
127 14.6 11.0 16.6

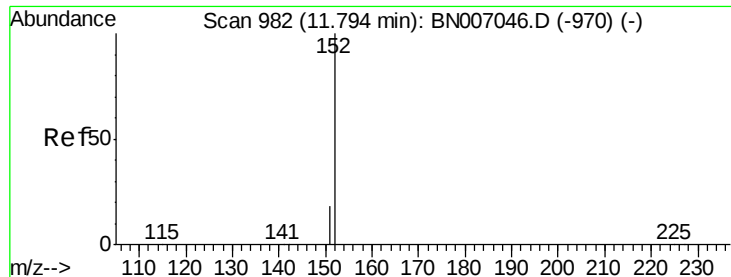


Abundance Ion 128.00 (127.70 to 128.70): BN007107.D (-809) (-)

Ion 129.00 (128.70 to 129.70): BN007107.D (-809) (-)

Ion 127.00 (126.70 to 127.70): BN007107.D (-809) (-)

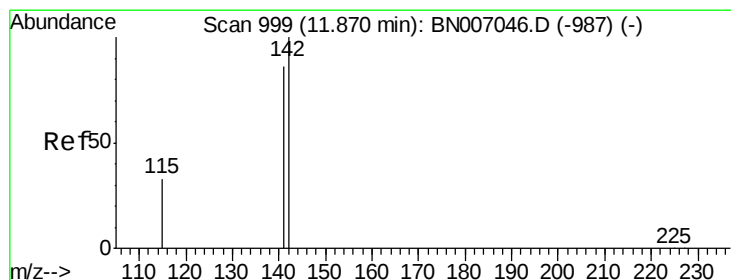
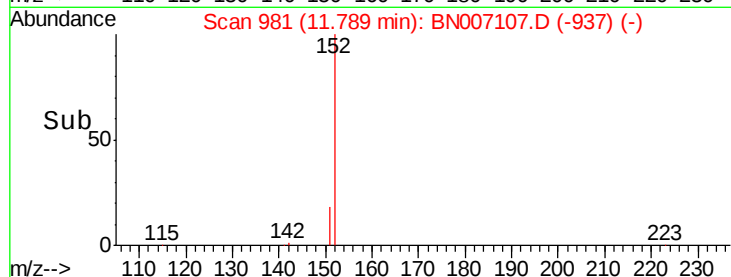
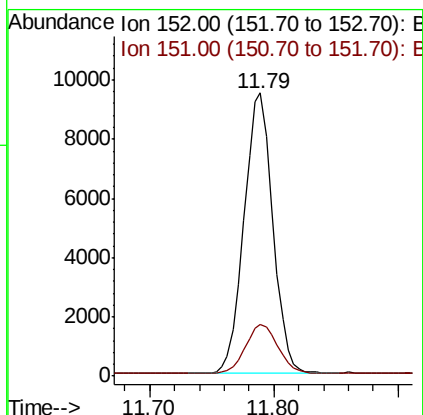
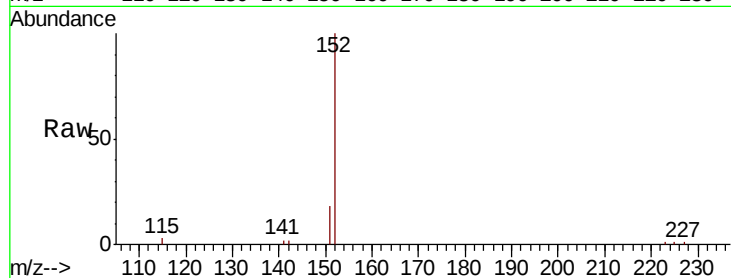




#10
2-Methylnaphthalene-d10
Concen: 0.246 ng
RT: 11.79 min Scan# 981
Delta R.T. -0.00 min
Lab File: BN007107.D
Acq: 12 Aug 2019 20:42

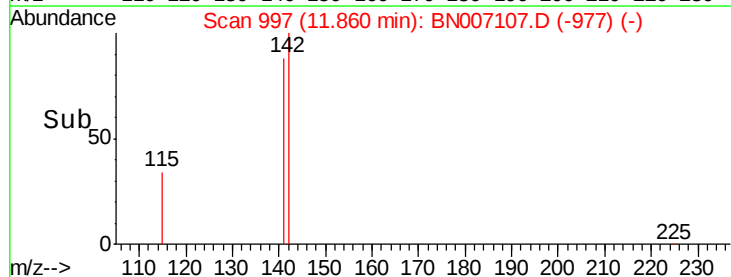
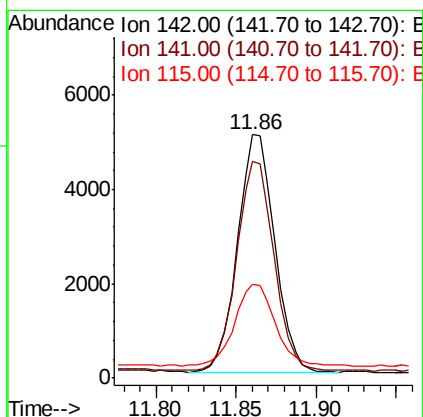
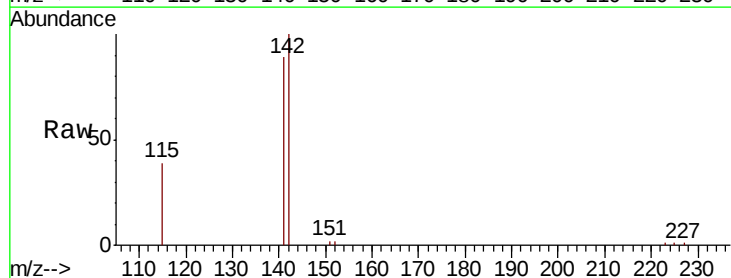
Instrument :
BNA_N
ClientSampleId :

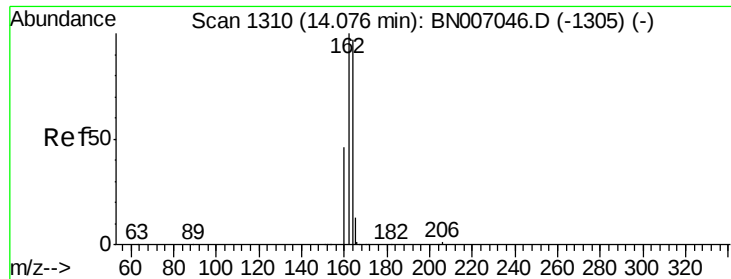
Tot Ion:152 Resp: 15075
Ion Ratio Lower Upper
152 100
151 19.4 15.5 23.3



#11
2-Methylnaphthalene
Concen: 0.125 ng
RT: 11.86 min Scan# 997
Delta R.T. -0.01 min
Lab File: BN007107.D
Acq: 12 Aug 2019 20:42

Tgt Ion:142 Resp: 8179
Ion Ratio Lower Upper
142 100
141 89.2 69.0 103.6
115 38.7 27.1 40.7





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

Instrument :

BNA_N

ClientSampleId :

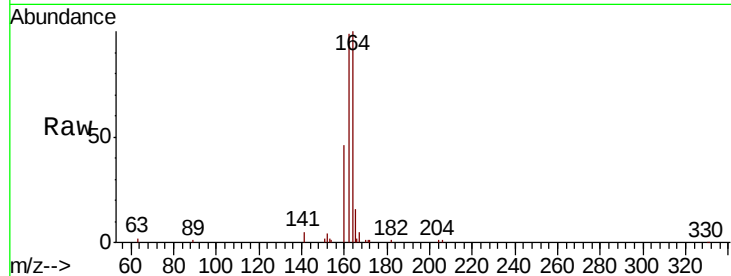
Tot Ion:164 Resp: 19956

Ion Ratio Lower Upper

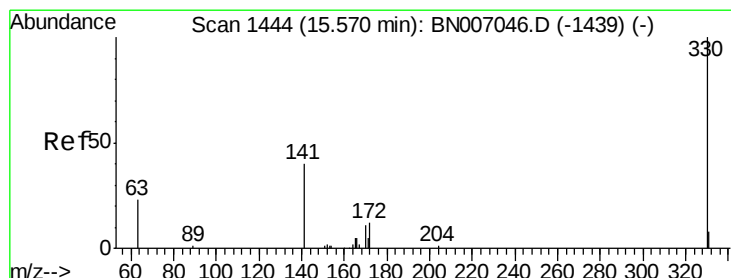
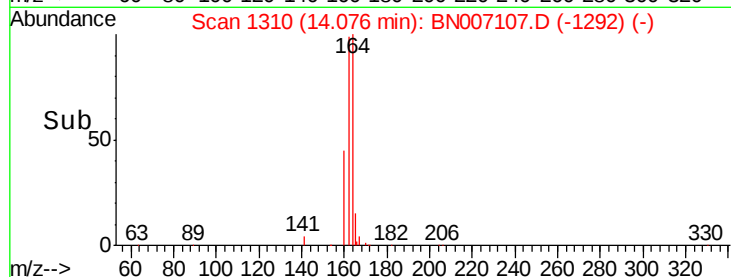
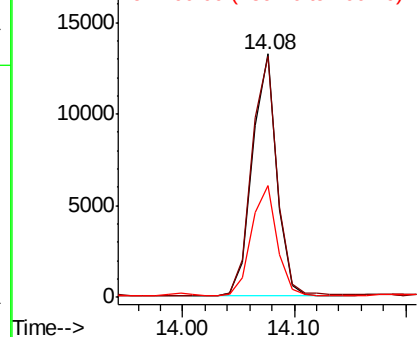
164 100

162 99.0 82.2 123.4

160 46.1 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: 0.218 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

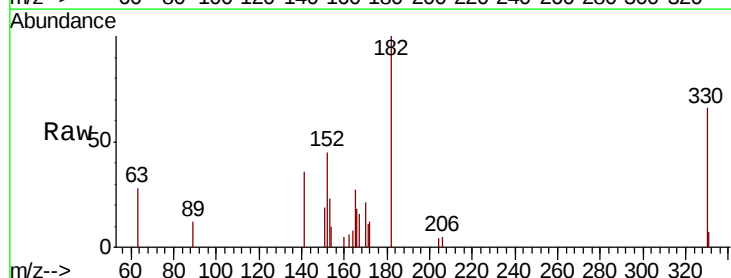
Tgt Ion:330 Resp: 2340

Ion Ratio Lower Upper

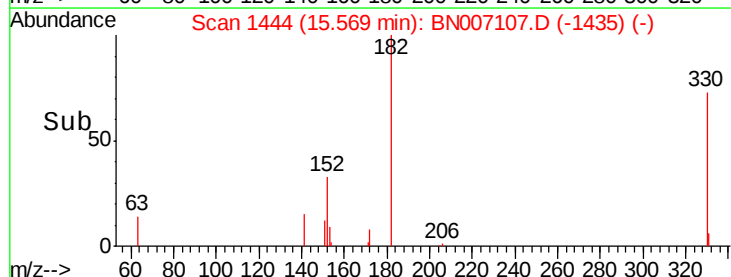
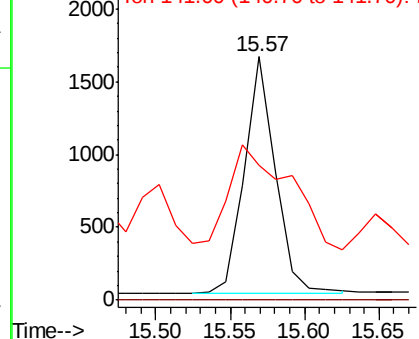
330 100

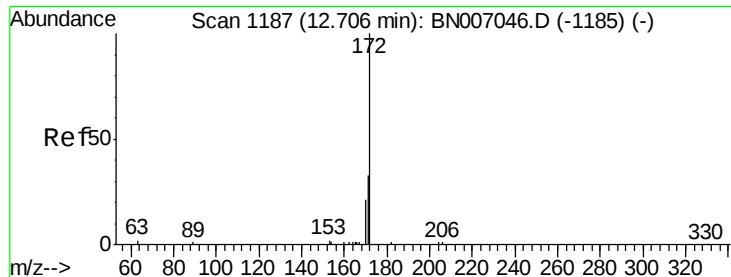
332 0.0 0.0 0.0

141 86.7 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

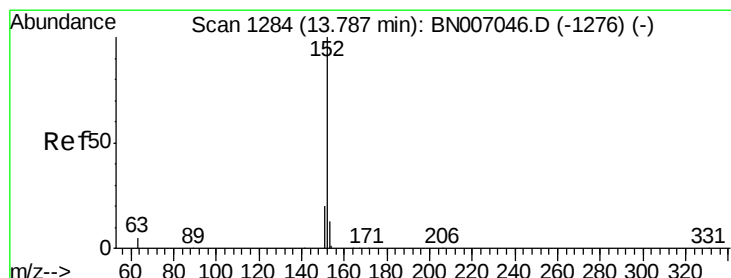
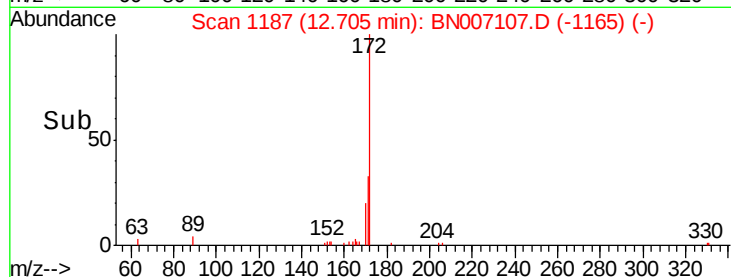
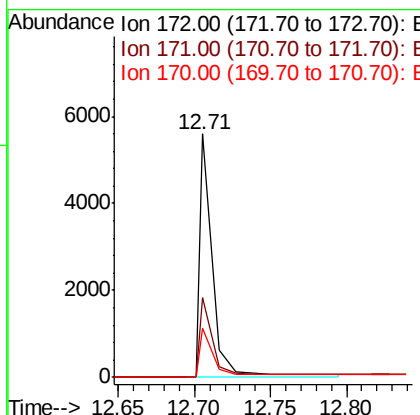
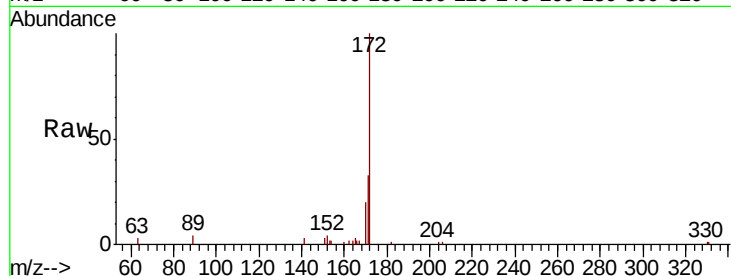




#14
2-Fluorobiphenyl
Concen: 0.138 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007107.D
Acq: 12 Aug 2019 20:42

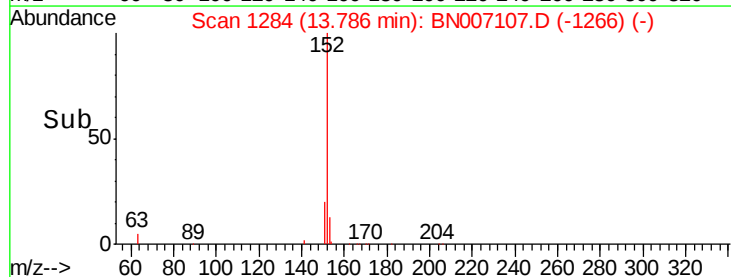
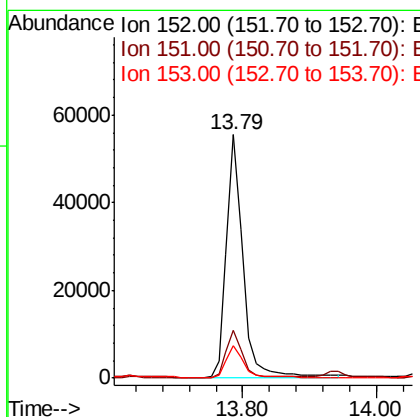
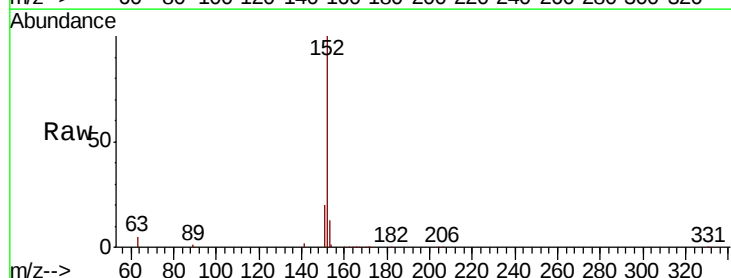
Instrument :
BNA_N
ClientSampleId :

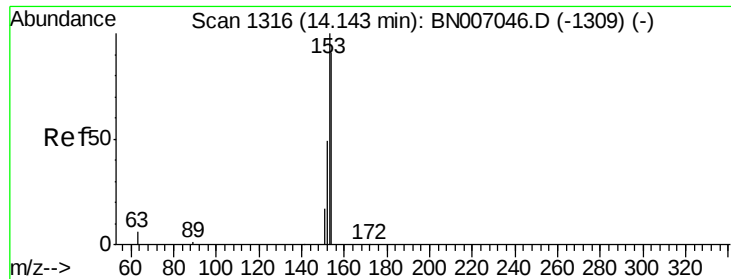
Tot Ion:172 Resp: 4007
Ion Ratio Lower Upper
172 100
171 32.6 26.3 39.5
170 20.0 17.0 25.4



#15
Acenaphthylene
Concen: 0.912 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007107.D
Acq: 12 Aug 2019 20:42

Tgt Ion:152 Resp: 95097
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.6
153 13.6 10.4 15.6





#16

Acenaphthene

Concen: 0.087 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

Instrument :

BNA_N

ClientSampleId :

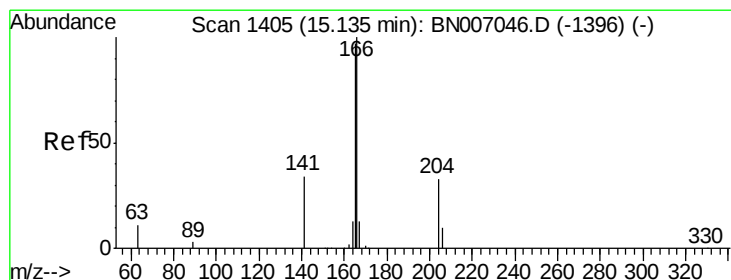
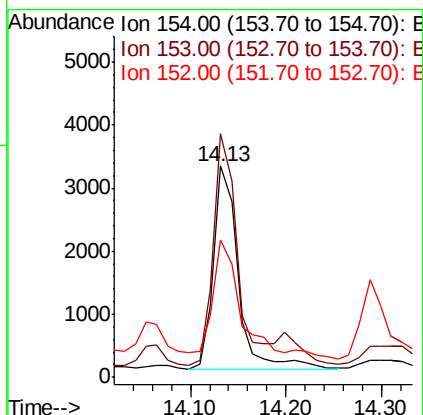
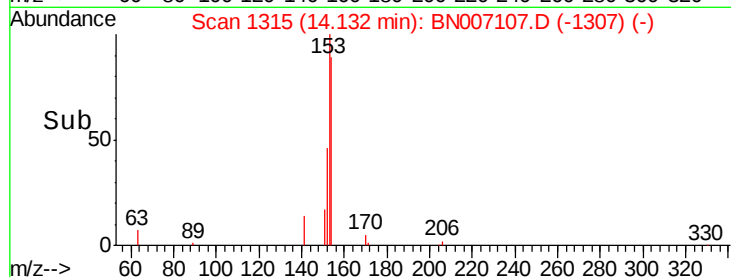
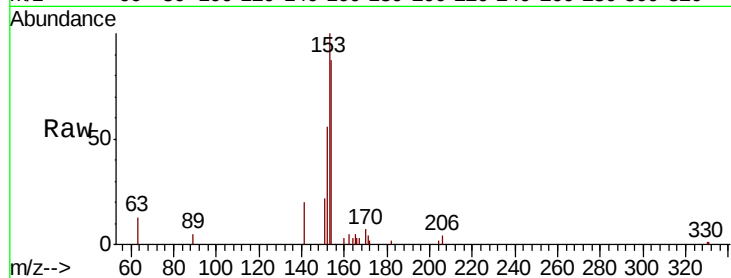
Tot Ion:154 Resp: 5797

Ion Ratio Lower Upper

154 100

153 112.9 89.5 134.3

152 69.8 44.8 67.2#



#17

Fluorene

Concen: 0.136 ng

RT: 15.13 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

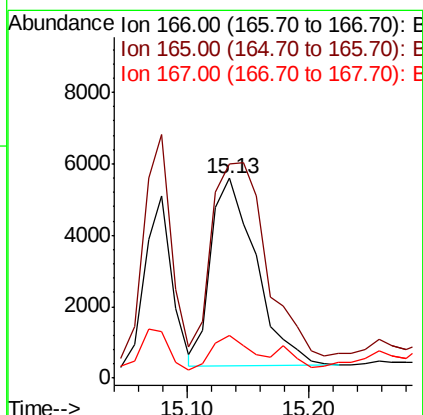
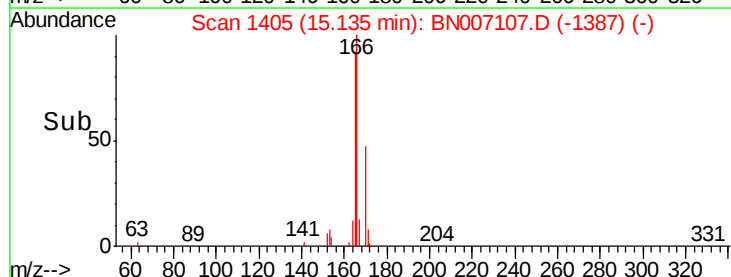
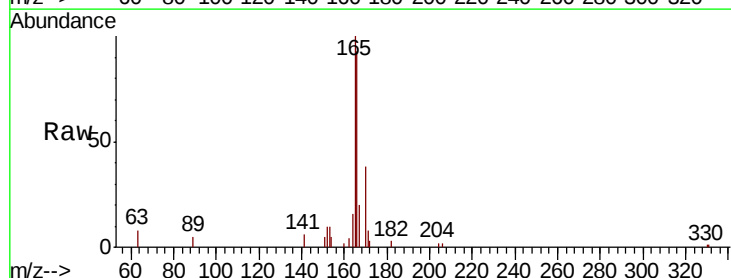
Tgt Ion:166 Resp: 13553

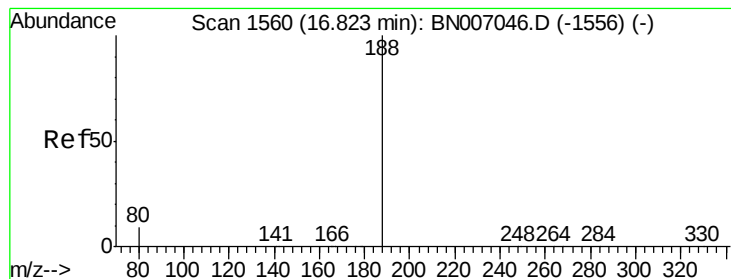
Ion Ratio Lower Upper

166 100

165 123.8 77.9 116.9#

167 16.2 10.9 16.3





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

Instrument :

BNA_N

ClientSampleId :

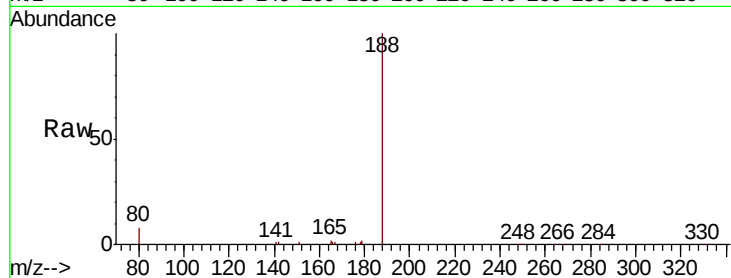
Tot Ion:188 Resp: 48483

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

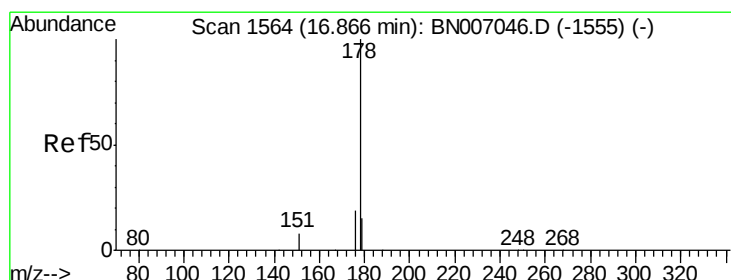
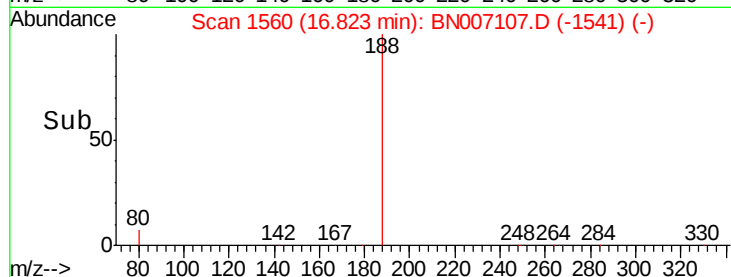
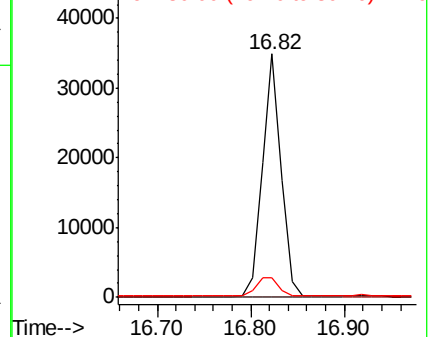
80 8.1 7.8 11.6



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: 1.795 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

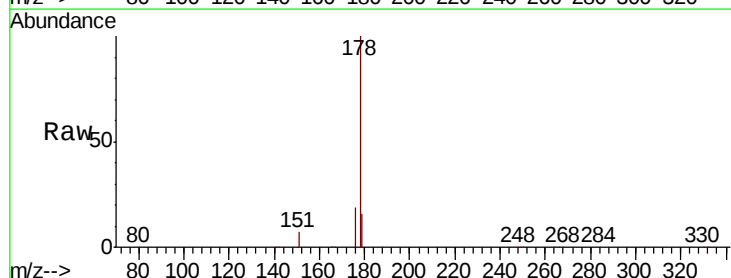
Tgt Ion:178 Resp: 260756

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

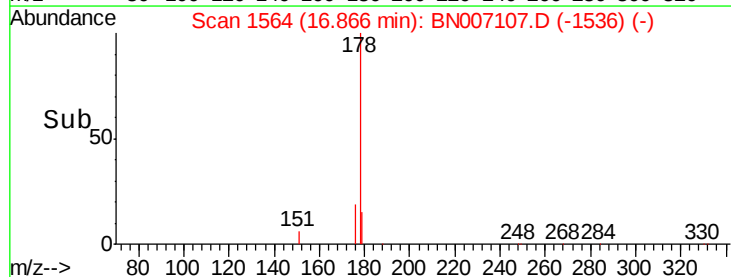
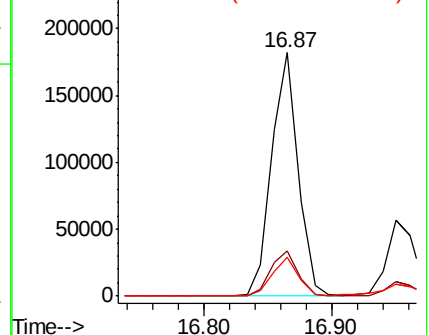
179 15.6 12.3 18.5

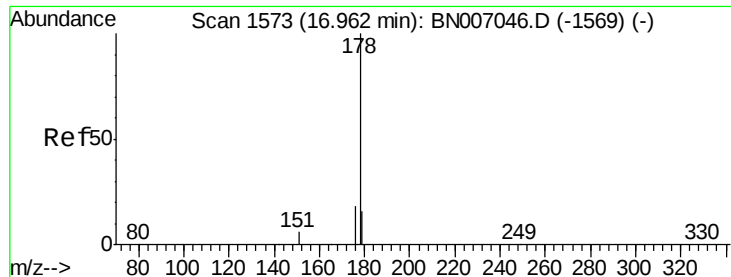


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 0.640 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

Instrument :

BNA_N

ClientSampled :

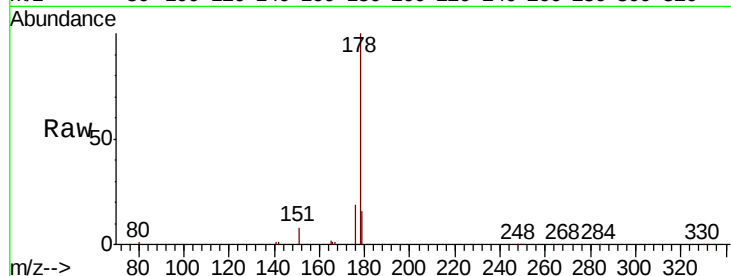
Tot Ion:178 Resp: 84904

Ion Ratio Lower Upper

178 100

176 18.4 14.6 21.8

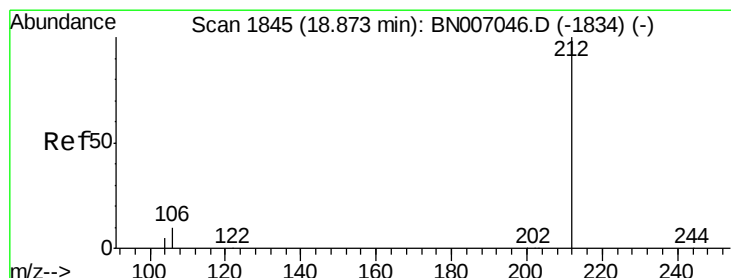
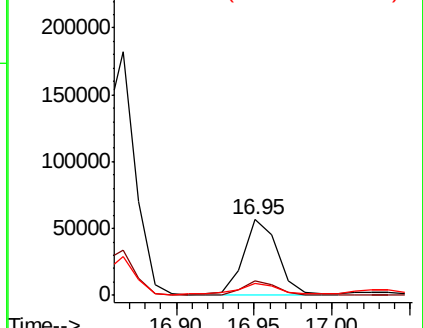
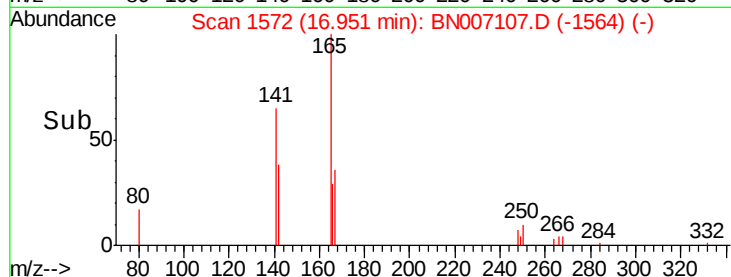
179 17.4 12.5 18.7



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: 0.237 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

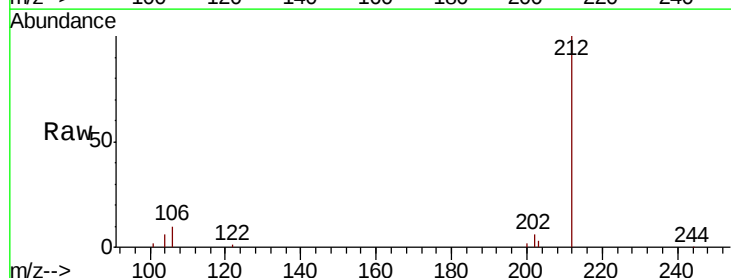
Tgt Ion:212 Resp: 40664

Ion Ratio Lower Upper

212 100

106 10.3 8.2 12.2

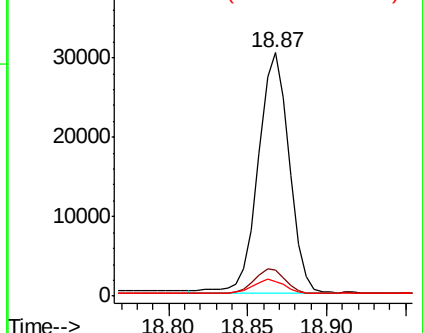
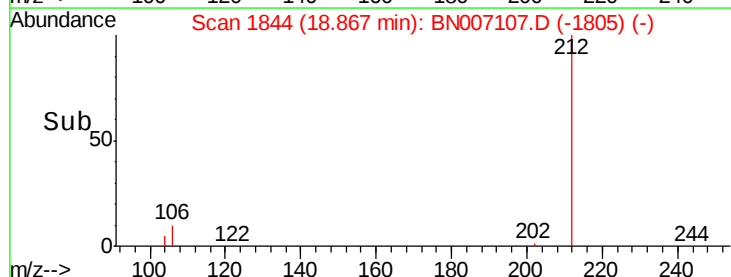
104 6.5 4.5 6.7

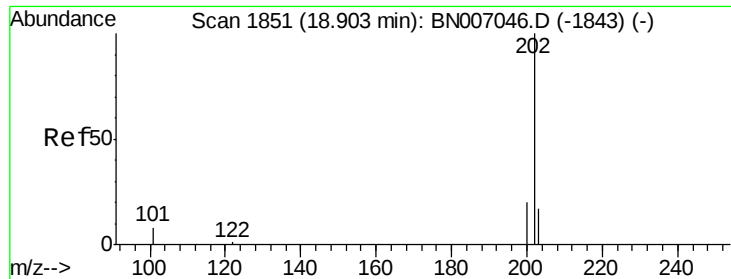


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 3.075 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

Instrument :

BNA_N

ClientSampleId :

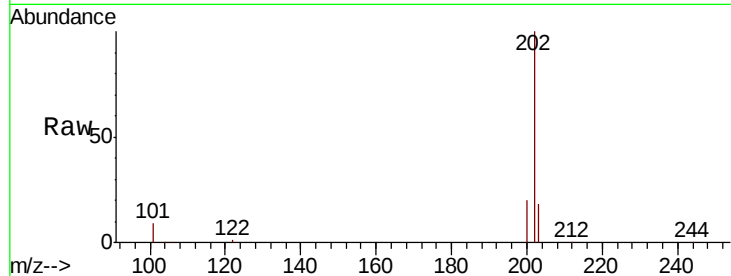
Tot Ion:202 Resp: 571612

Ion Ratio Lower Upper

202 100

101 8.9 7.0 10.4

203 17.7 13.8 20.8

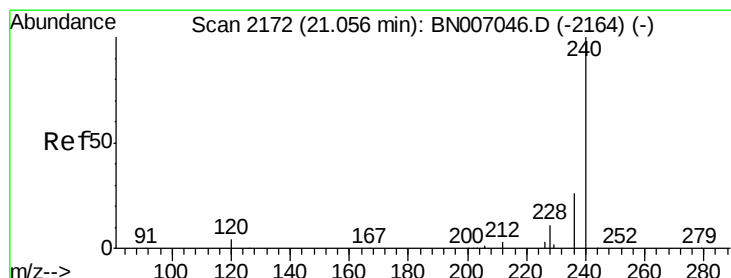
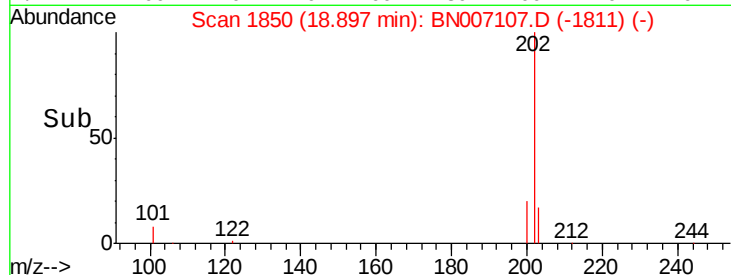
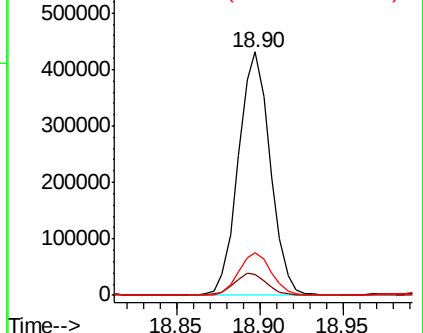


Abundance

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: 21.04 min Scan# 2171

Delta R.T. -0.01 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

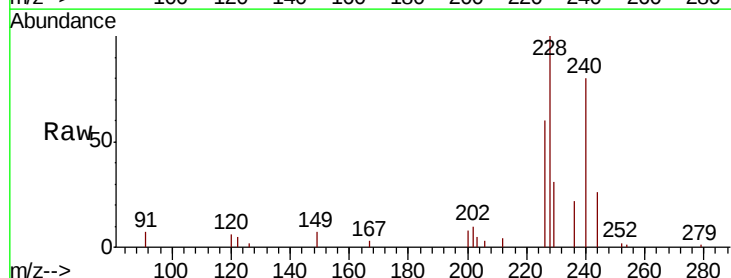
Tgt Ion:240 Resp: 47724

Ion Ratio Lower Upper

240 100

120 7.3 4.0 6.0#

236 27.8 21.3 31.9

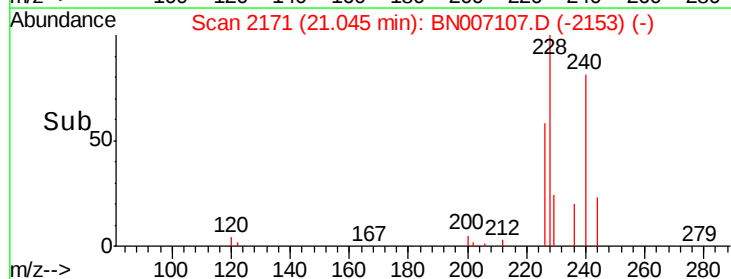
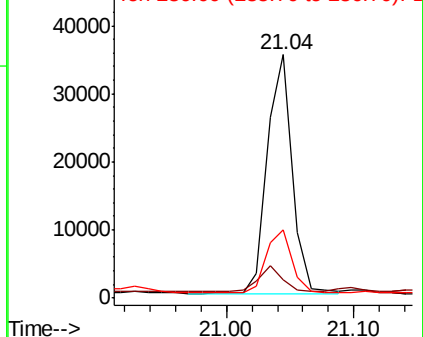


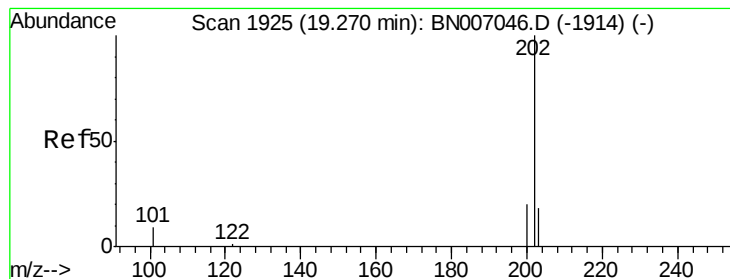
Abundance

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: 3.922 ng

RT: 19.26 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

Instrument :

BNA_N

ClientSampleId :

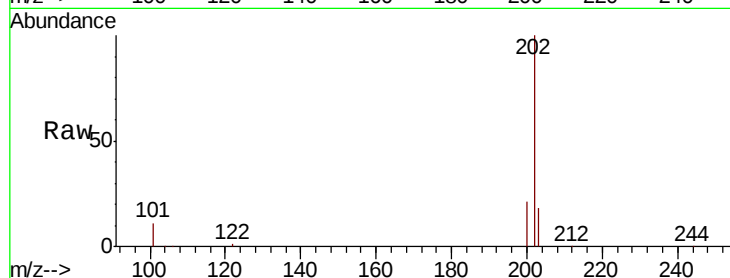
Tot Ion:202 Resp: 656343

Ion Ratio Lower Upper

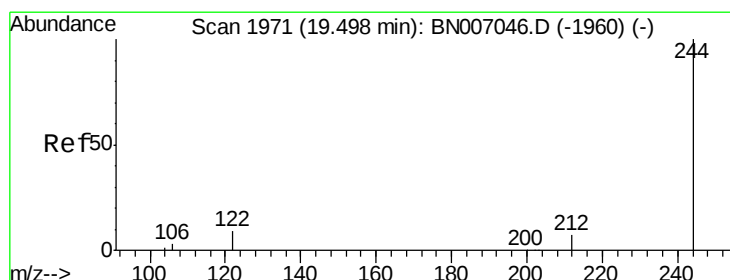
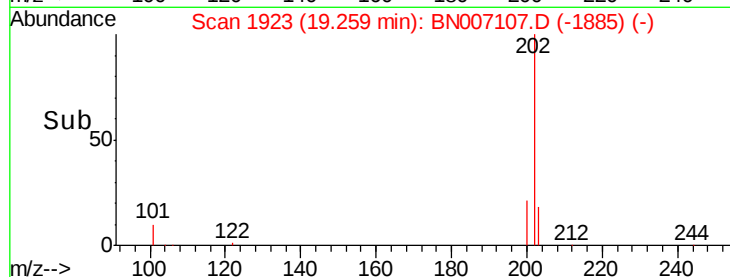
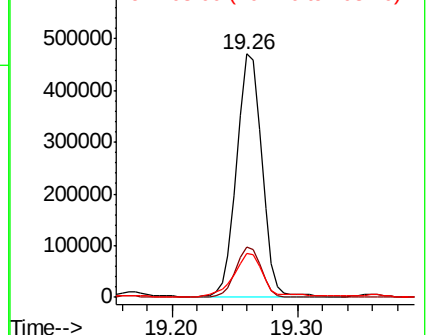
202 100

200 20.7 16.6 24.8

203 19.8 14.0 21.0



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#28

Terphenyl-d14

Concen: 0.253 ng

RT: 19.49 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

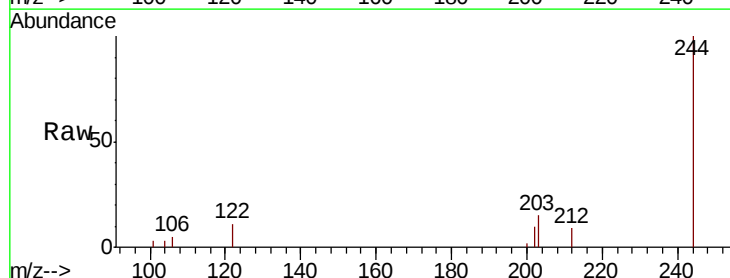
Tgt Ion:244 Resp: 32863

Ion Ratio Lower Upper

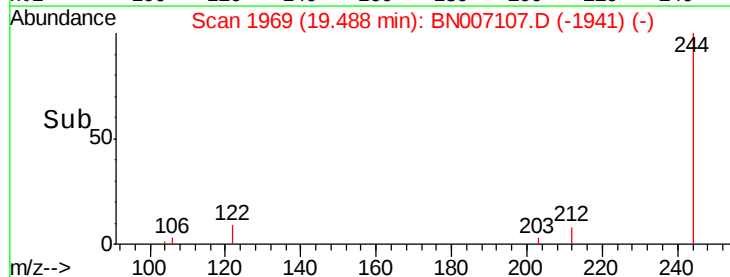
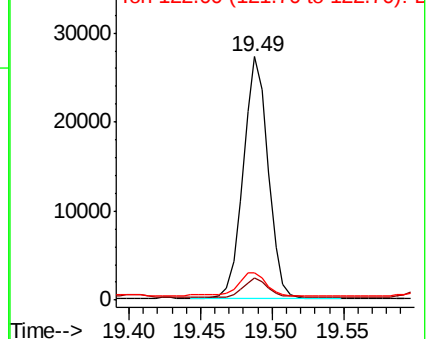
244 100

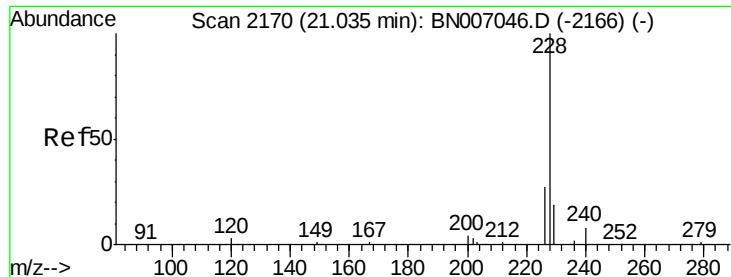
212 8.9 6.2 9.2

122 11.3 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: 1.845 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

Instrument :

BNA_N

ClientSampleId :

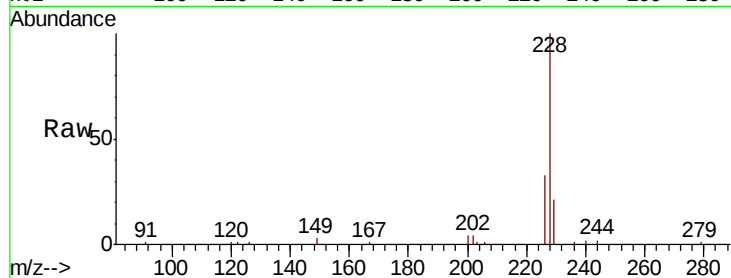
Tot Ion:228 Resp: 322041

Ion Ratio Lower Upper

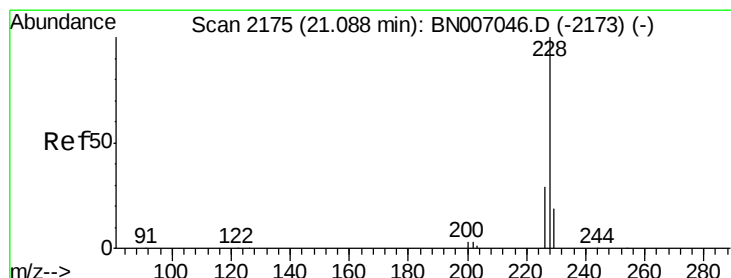
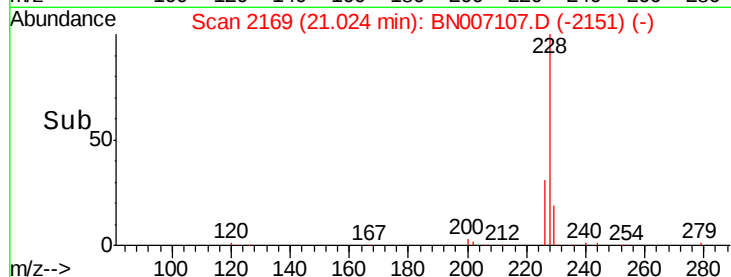
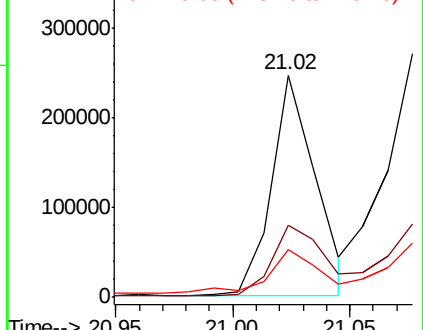
228 100

226 32.5 21.8 32.6

229 21.3 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: 2.368 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

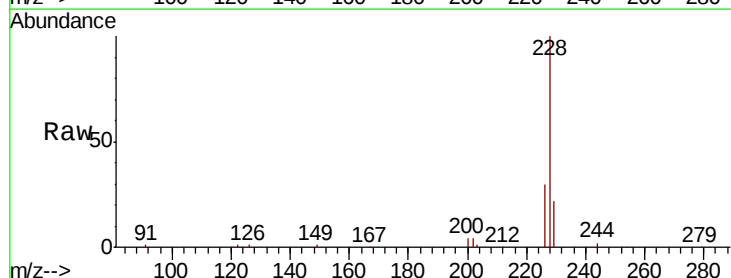
Tgt Ion:228 Resp: 401512

Ion Ratio Lower Upper

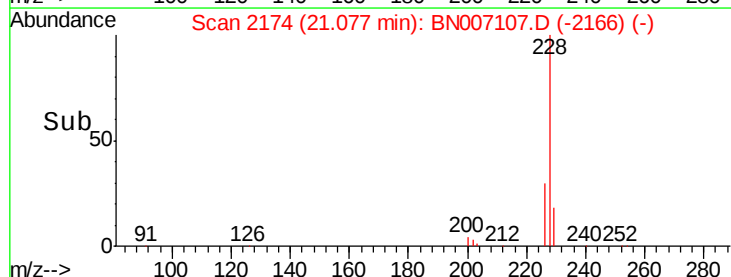
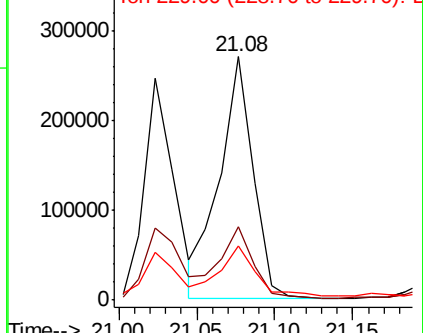
228 100

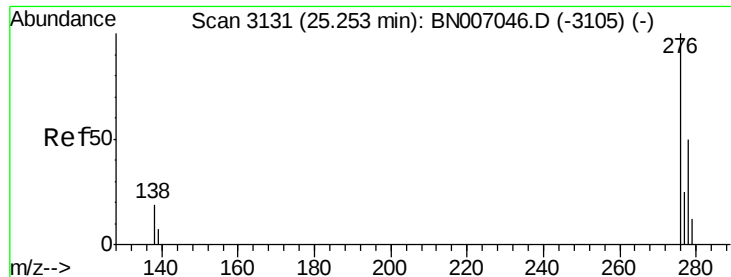
226 30.1 23.8 35.6

229 22.1 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

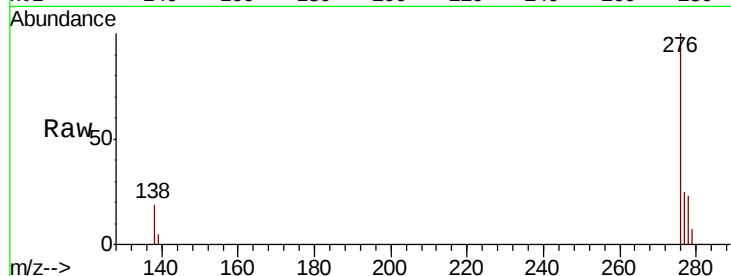




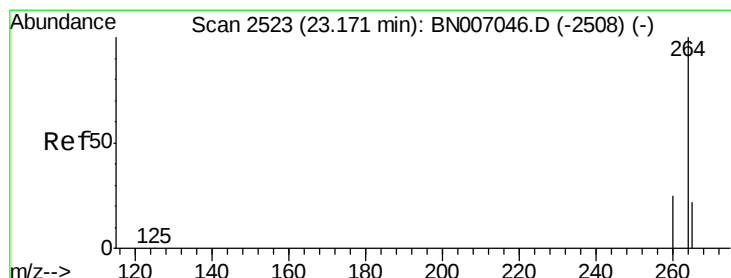
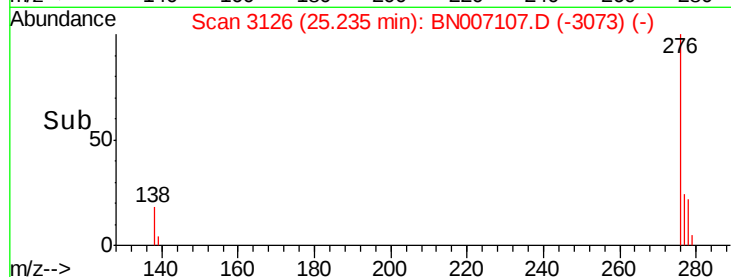
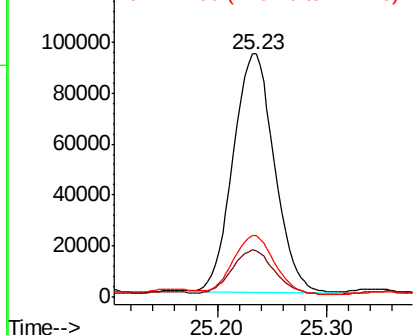
#31
 Indeno(1,2,3-cd)pyrene
 Concen: 1.320 ng
 RT: 25.23 min Scan# 3126
 Delta R.T. -0.02 min
 Lab File: BN007107.D
 Acq: 12 Aug 2019 20:42

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:276 Resp: 246777
 Ion Ratio Lower Upper
 276 100
 138 19.1 16.0 24.0
 277 24.8 19.9 29.9

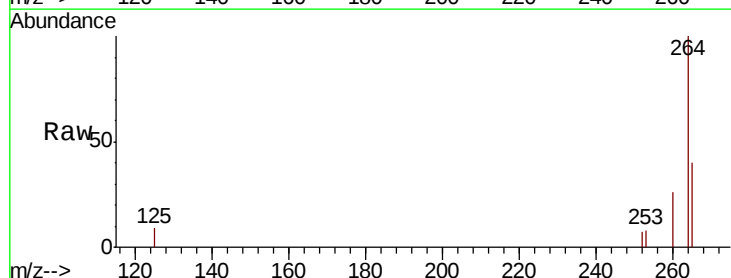


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

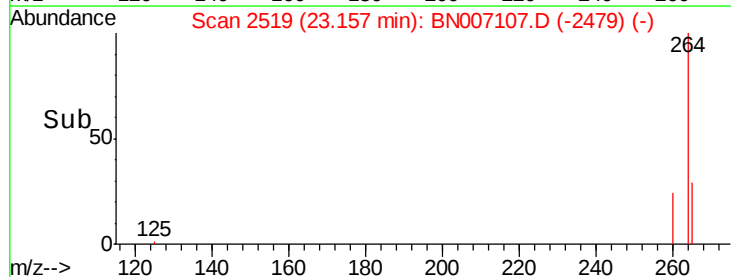
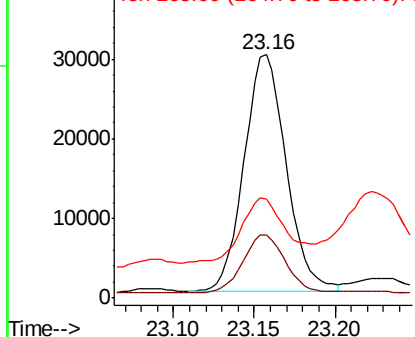


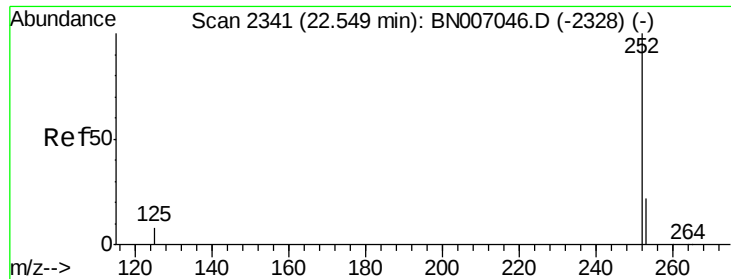
#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.16 min Scan# 2519
 Delta R.T. -0.01 min
 Lab File: BN007107.D
 Acq: 12 Aug 2019 20:42

Tgt Ion:264 Resp: 53953
 Ion Ratio Lower Upper
 264 100
 260 25.8 19.8 29.8
 265 40.5 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

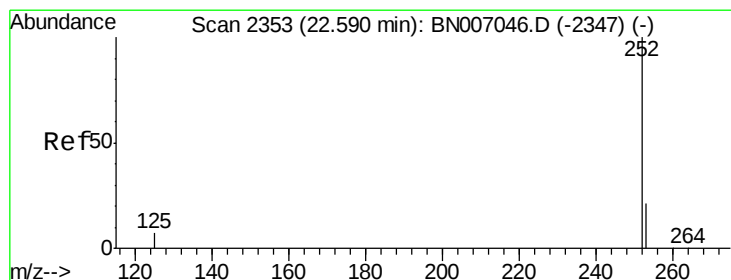
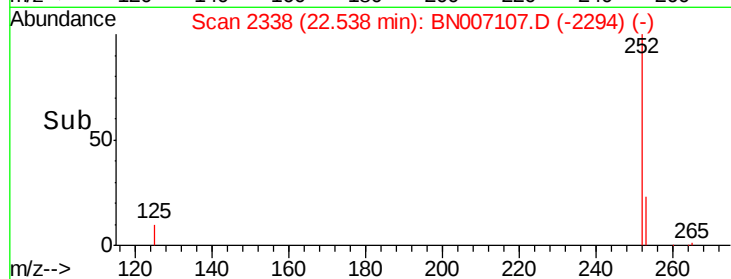
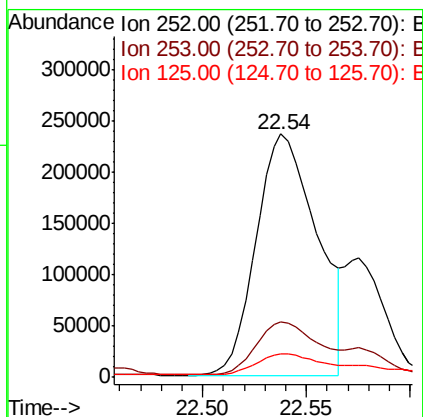
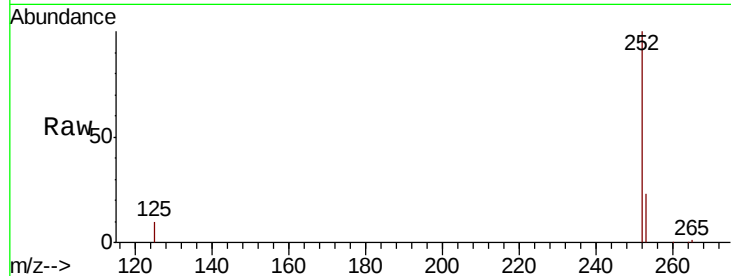




#33
Benzo(b)fluoranthene
Concen: 2.588 ng
RT: 22.54 min Scan# 2338
Delta R.T. -0.01 min
Lab File: BN007107.D
Acq: 12 Aug 2019 20:42

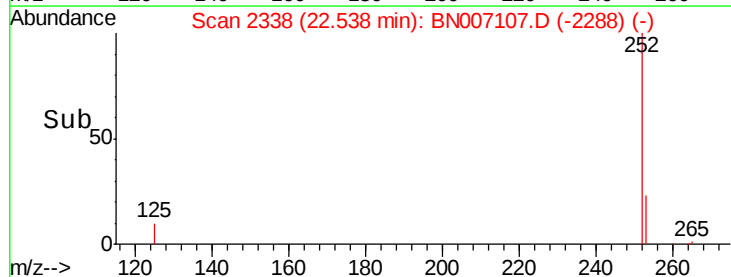
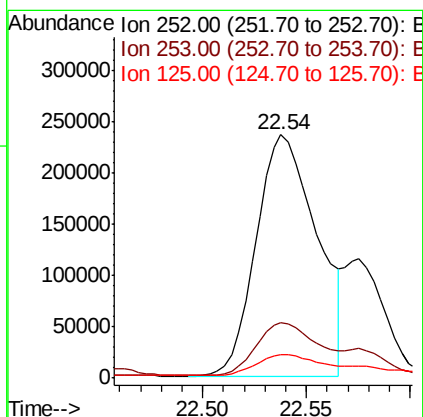
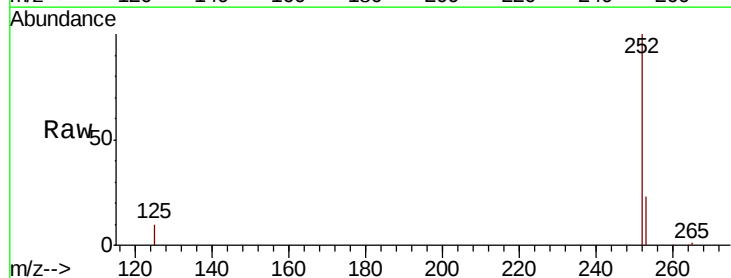
Instrument :
BNA_N
ClientSampleId :

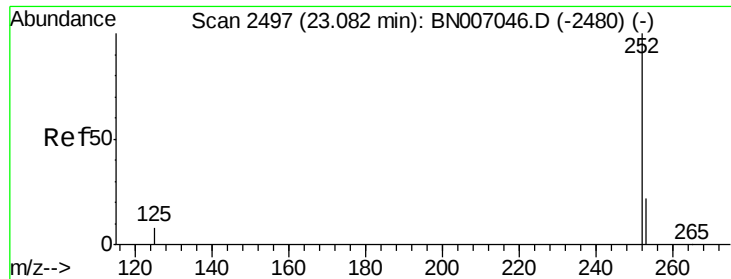
Tot Ion:252 Resp: 478876
Ion Ratio Lower Upper
252 100
253 22.9 18.2 27.2
125 9.5 7.4 11.0



#34
Benzo(k)fluoranthene
Concen: 2.621 ng
RT: 22.54 min Scan# 2338
Delta R.T. -0.05 min
Lab File: BN007107.D
Acq: 12 Aug 2019 20:42

Tgt Ion:252 Resp: 478876
Ion Ratio Lower Upper
252 100
253 22.9 18.1 27.1
125 9.5 7.4 11.0





#35

Benzo(a)pyrene

Concen: 1.992 ng

RT: 23.07 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

Instrument :

BNA_N

ClientSampleId :

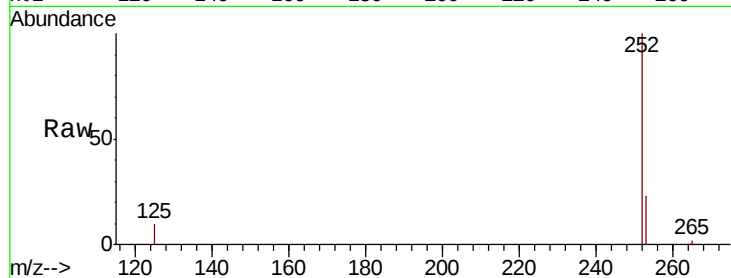
Tot Ion:252 Resp: 334164

Ion Ratio Lower Upper

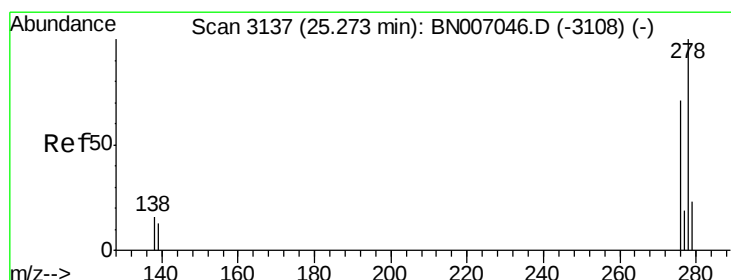
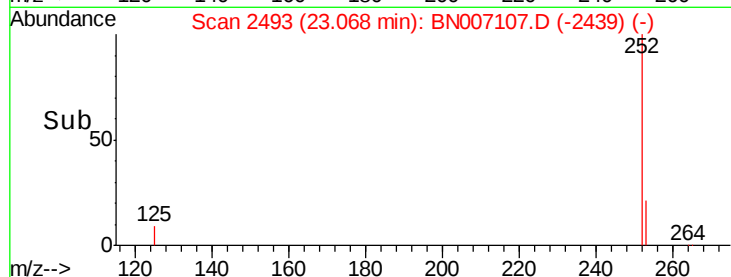
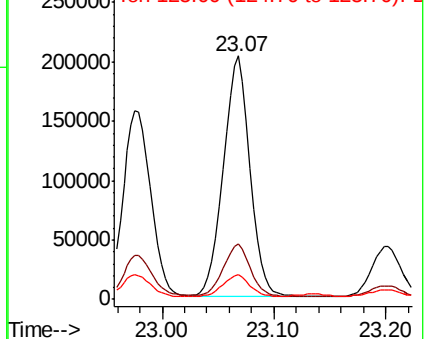
252 100

253 22.8 18.5 27.7

125 9.9 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: 0.406 ng

RT: 25.24 min Scan# 3128

Delta R.T. -0.03 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

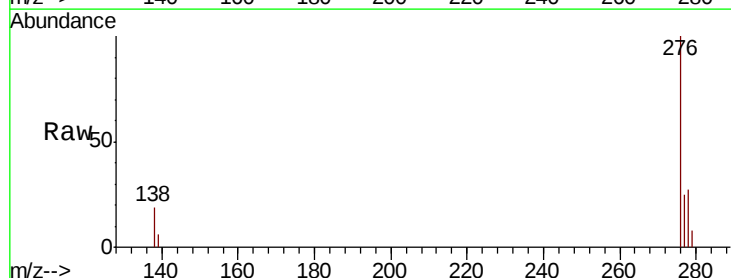
Tgt Ion:278 Resp: 67894

Ion Ratio Lower Upper

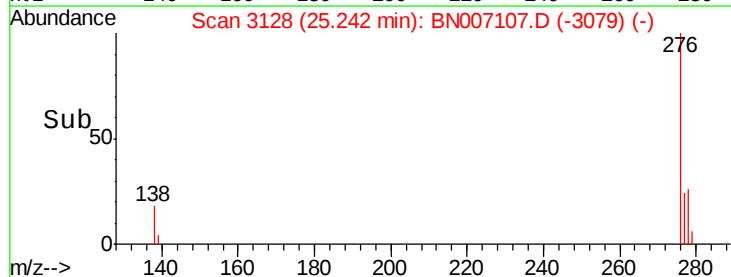
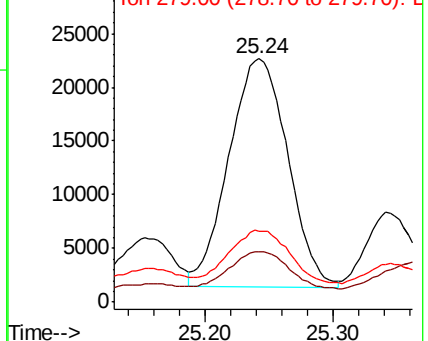
278 100

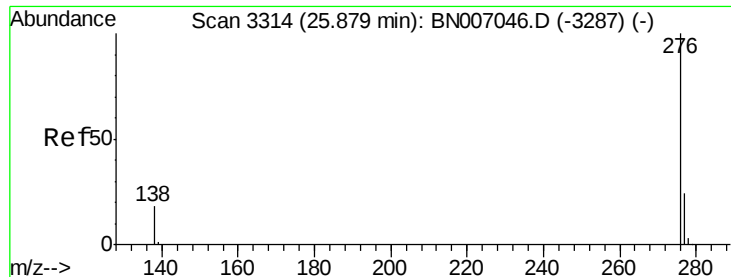
139 20.9 11.3 16.9#

279 29.3 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: 1.573 ng

RT: 25.86 min Scan# 3309

Delta R.T. -0.02 min

Lab File: BN007107.D

Acq: 12 Aug 2019 20:42

Instrument :

BNA_N

ClientSampleId :

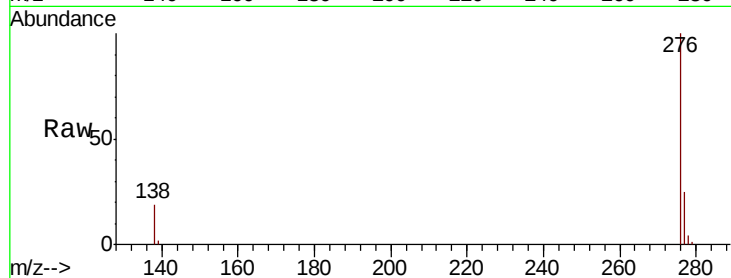
Tot Ion: 276 Resp: 270743

Ion Ratio Lower Upper

276 100

277 24.6 19.8 29.8

138 19.3 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

