

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081319\
 Data File : BN007155.D
 Acq On : 14 Aug 2019 06:21
 Operator : HP/JU
 Sample : K4173-21
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 14 09:07:03 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	9496	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	36560	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	21050	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	47593	0.40	ng	0.00
26) Chrysene-d12	21.05	240	46099	0.40	ng	-0.01
32) Perylene-d12	23.16	264	54724	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	6813	0.30	ng	0.00
4) Phenol-d6	6.62	99	9170	0.32	ng	0.00
7) Nitrobenzene-d5	8.56	82	7397	0.25	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	16479	0.24	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2775	0.24	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3988	0.13	ng	0.00
24) Fluoranthene-d10	18.87	212	42744	0.25	ng	0.00
28) Terphenyl-d14	19.49	244	30814	0.25	ng	-0.01

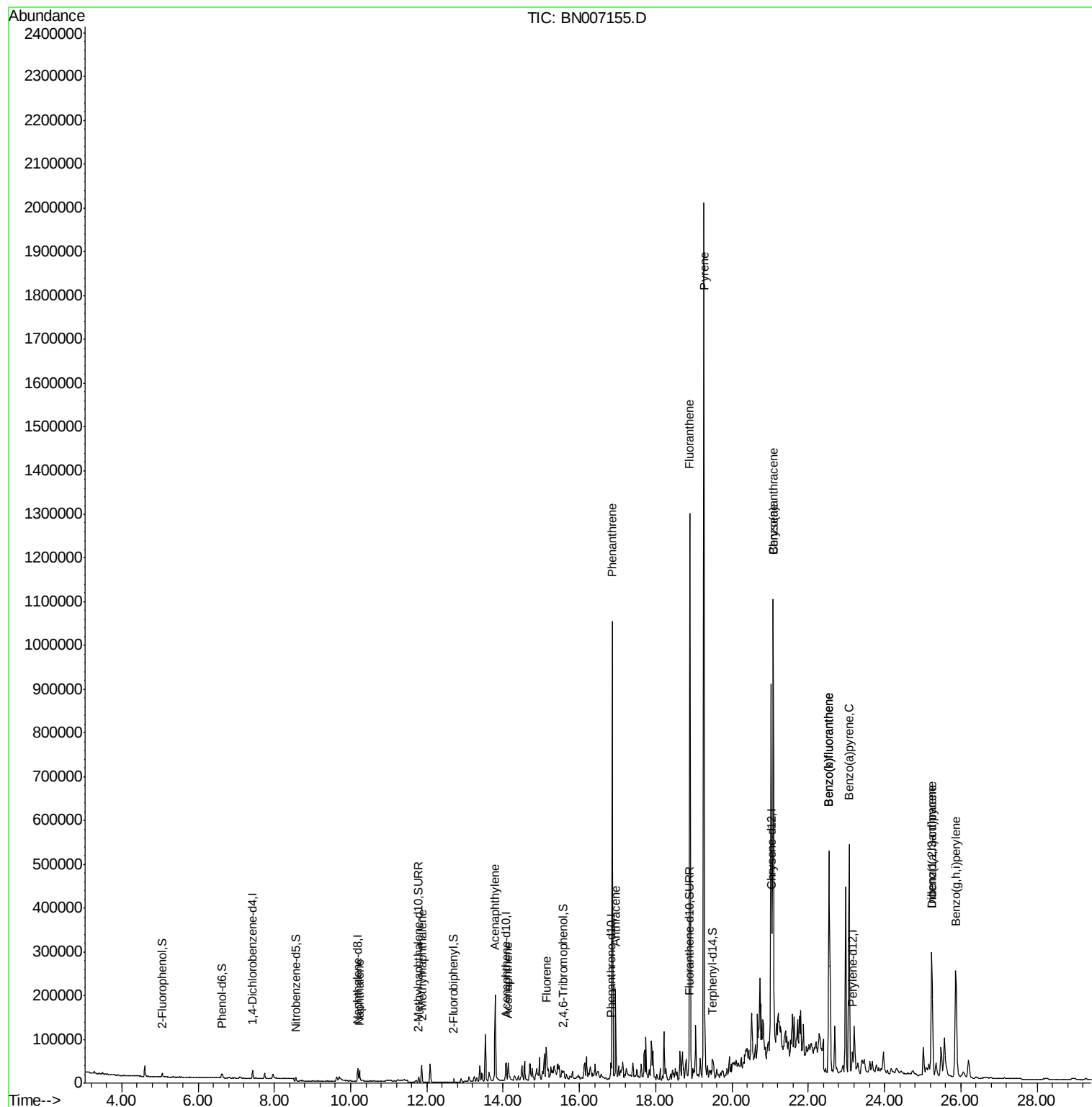
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.24	128	30548	0.298	ng	99
11) 2-Methylnaphthalene	11.87	142	29215	0.402	ng	97
15) Acenaphthylene	13.79	152	252059	2.291	ng	99
16) Acenaphthene	14.13	154	24251	0.344	ng	90
17) Fluorene	15.13	166	57966	0.550	ng	# 81
22) Phenanthrene	16.87	178	1035094	7.257	ng	100
23) Anthracene	16.96	178	238306	1.829	ng	99
25) Fluoranthene	18.90	202	1193037	6.539	ng	99
27) Pyrene	19.26	202	1836734	11.361	ng	97
29) Benzo(a)anthracene	21.08	228	948175	5.624	ng	94
30) Chrysene	21.08	228	948175	5.789	ng	97
31) Indeno(1,2,3-cd)pyrene	25.24	276	427092	2.366	ng	99
33) Benzo(b)fluoranthene	22.54	252	1052852	5.611	ng	99
34) Benzo(k)fluoranthene	22.54	252	1052852	5.681	ng	99
35) Benzo(a)pyrene	23.07	252	679986	3.997	ng	99
36) Dibenzo(a,h)anthracene	25.25	278	125016	0.737	ng	# 85
37) Benzo(a,h,i)perylene	25.87	276	501122	2.870	ng	99

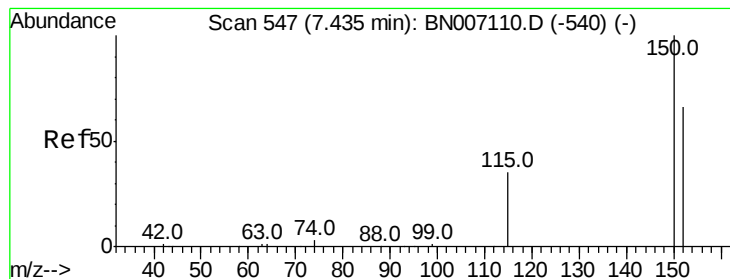
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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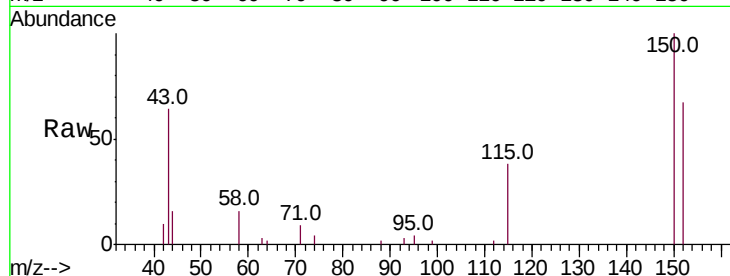


#1

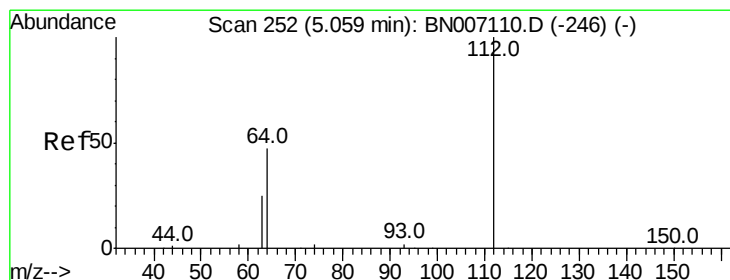
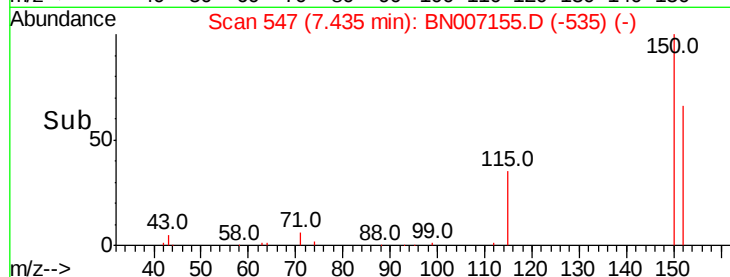
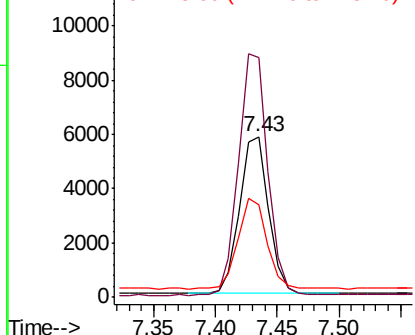
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007155.D
Acq: 14 Aug 2019 06:21

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 9496
Ion Ratio Lower Upper
152 100
150 149.1 121.7 182.5
115 57.3 46.2 69.4



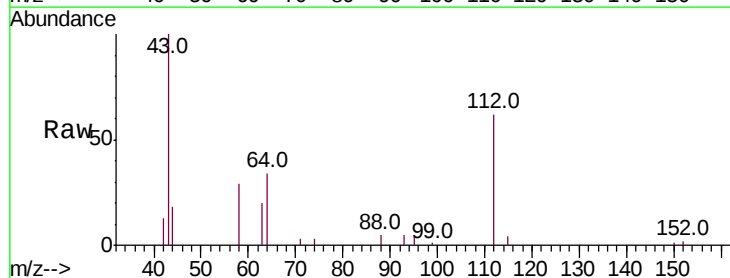
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



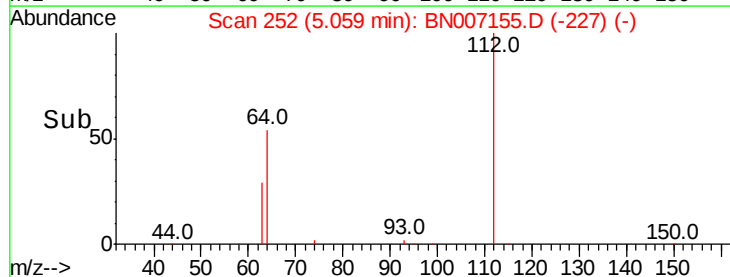
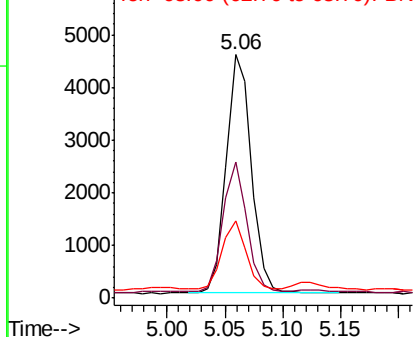
#3

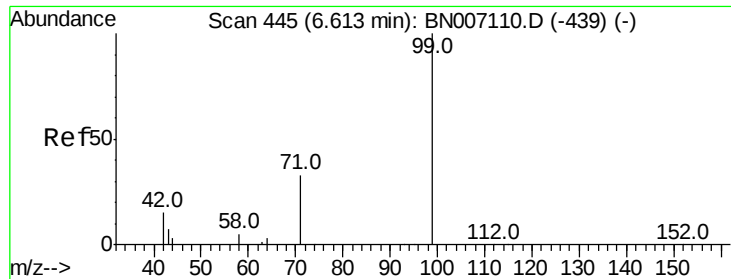
2-Fluorophenol
Concen: 0.299 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007155.D
Acq: 14 Aug 2019 06:21

Tgt Ion:112 Resp: 6813
Ion Ratio Lower Upper
112 100
64 51.4 42.6 63.8
63 27.7 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: 0.324 ng

RT: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

Instrument :

BNA_N

ClientSampleId :

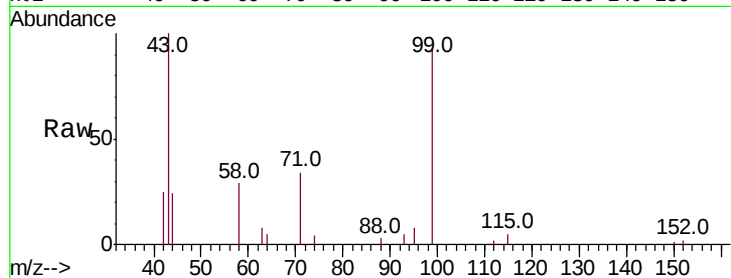
Tot Ion: 99 Resp: 9170

Ion Ratio Lower Upper

99 100

42 23.1 15.8 23.6

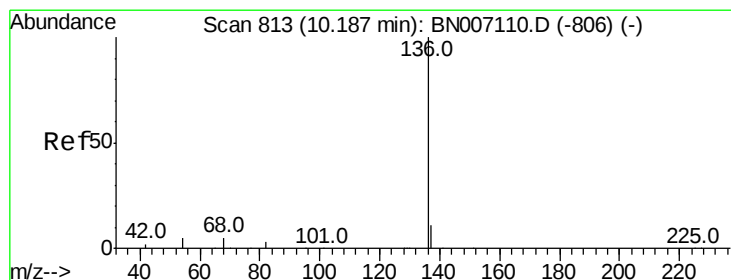
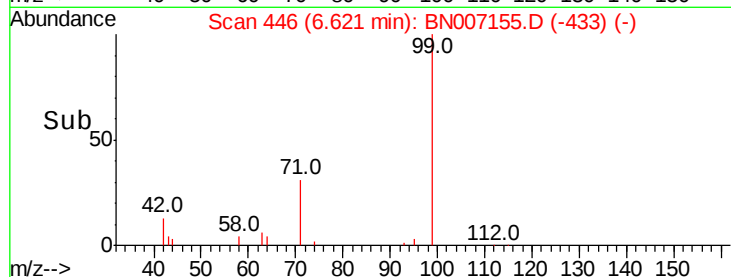
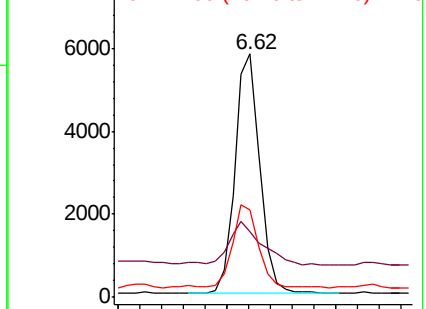
71 35.5 27.0 40.4



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

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

Tgt Ion: 136 Resp: 36560

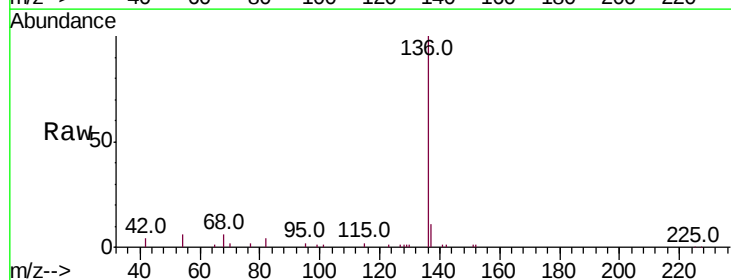
Ion Ratio Lower Upper

136 100

137 11.3 9.4 14.0

54 6.1 6.6 9.8#

68 5.8 6.0 9.0#

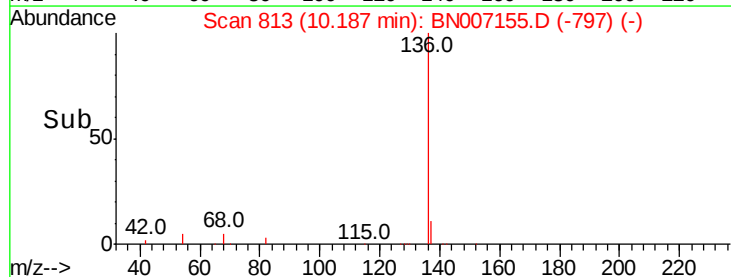
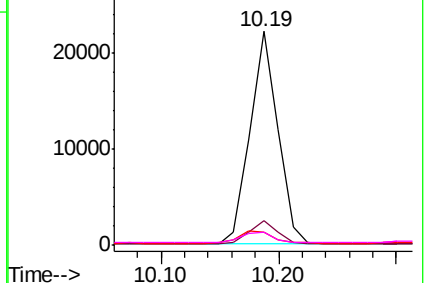


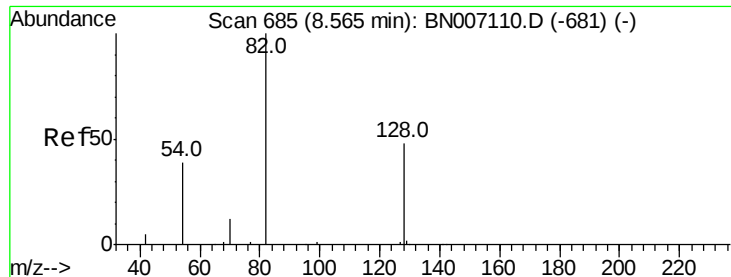
Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

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) (-)





#7

Nitrobenzene-d5

Concen: 0.251 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

Instrument :

BNA_N

ClientSampleId :

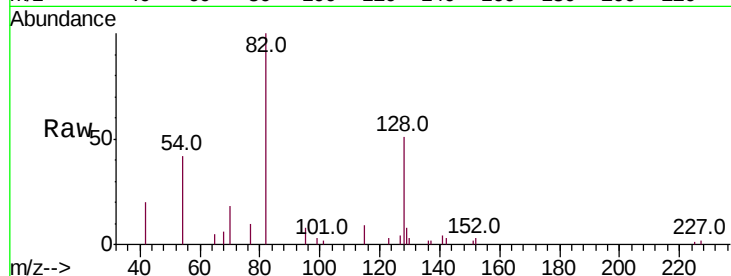
Tot Ion: 82 Resp: 7397

Ion Ratio Lower Upper

82 100

128 50.7 34.6 51.8

54 41.7 36.2 54.4

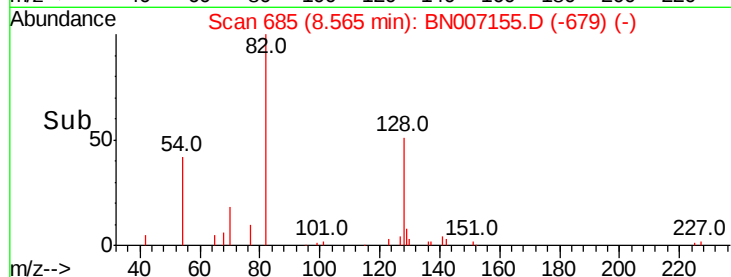


Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

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

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

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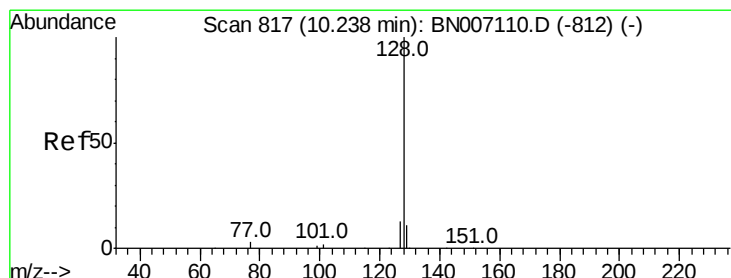
8.56

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8.56



#8

Naphthalene

Concen: 0.298 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

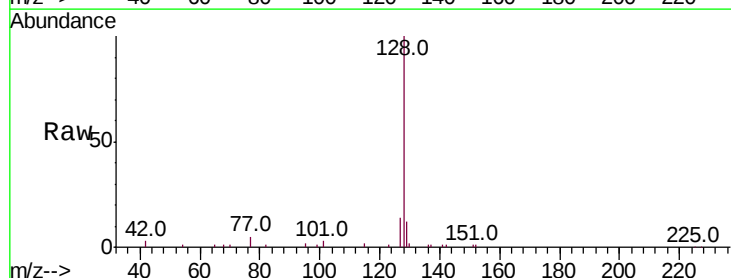
Tgt Ion: 128 Resp: 30548

Ion Ratio Lower Upper

128 100

129 12.0 9.4 14.2

127 13.6 11.0 16.6

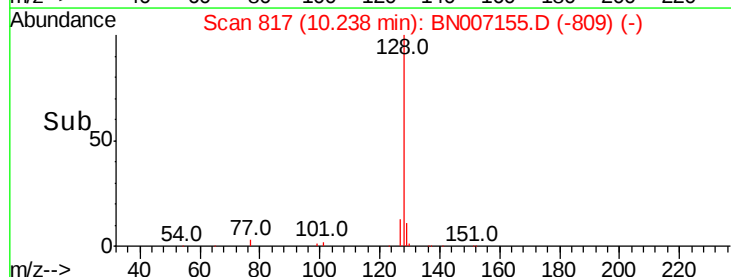


Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

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

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

10.24



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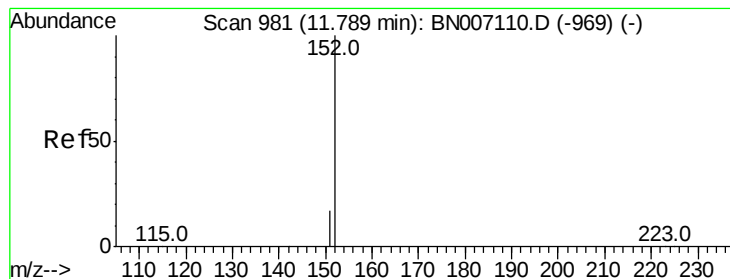
10.24

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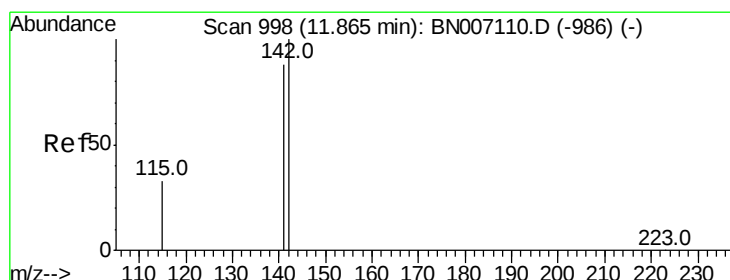
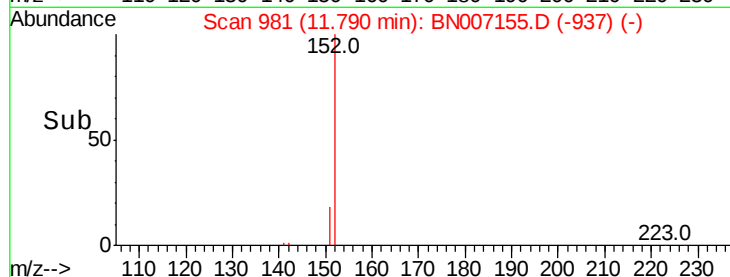
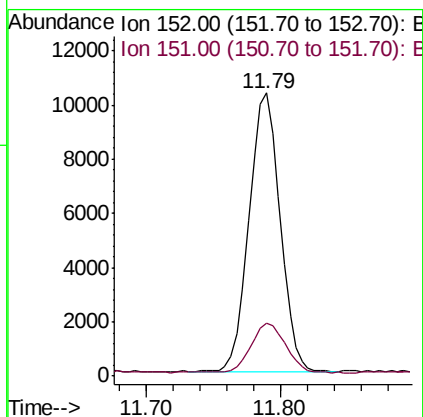
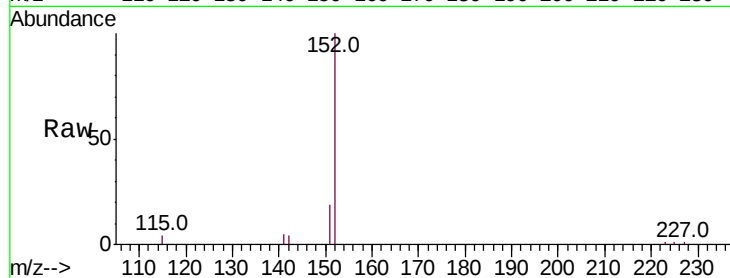
10.24



#10
2-Methylnaphthalene-d10
Concen: 0.242 ng
RT: 11.79 min Scan# 981
Delta R.T. -0.00 min
Lab File: BN007155.D
Acq: 14 Aug 2019 06:21

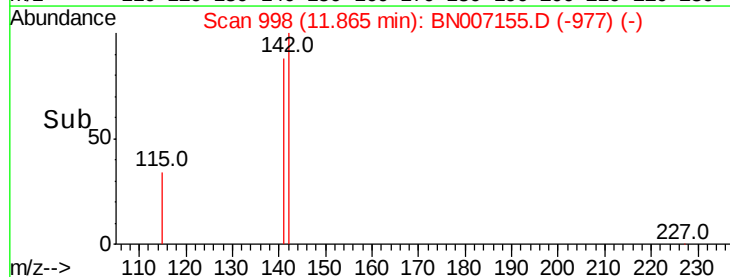
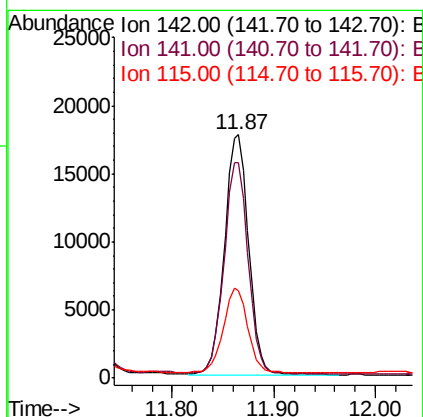
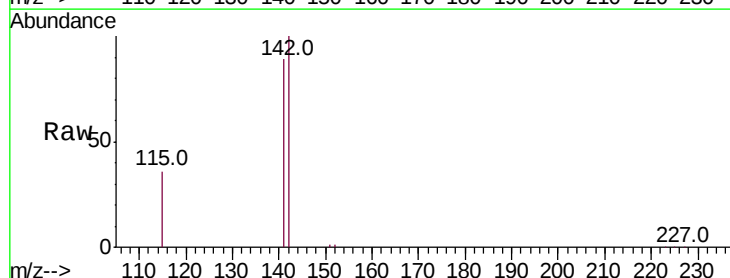
Instrument :
BNA_N
ClientSampleId :

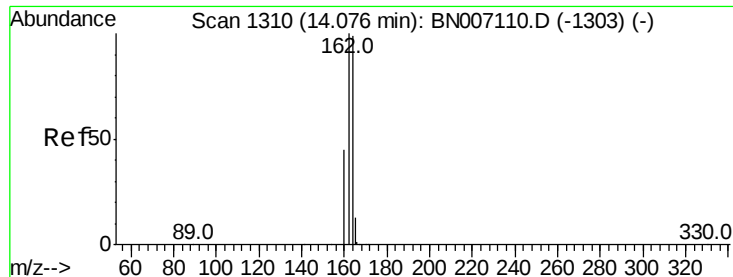
Tot Ion:152 Resp: 16479
Ion Ratio Lower Upper
152 100
151 20.1 15.5 23.3



#11
2-Methylnaphthalene
Concen: 0.402 ng
RT: 11.87 min Scan# 998
Delta R.T. -0.00 min
Lab File: BN007155.D
Acq: 14 Aug 2019 06:21

Tgt Ion:142 Resp: 29215
Ion Ratio Lower Upper
142 100
141 88.5 69.0 103.6
115 35.7 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: BN007155.D

Acq: 14 Aug 2019 06:21

Instrument :

BNA_N

ClientSampleId :

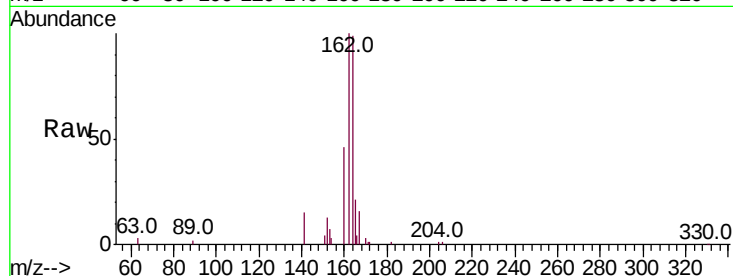
Tot Ion:164 Resp: 21050

Ion Ratio Lower Upper

164 100

162 100.9 82.2 123.4

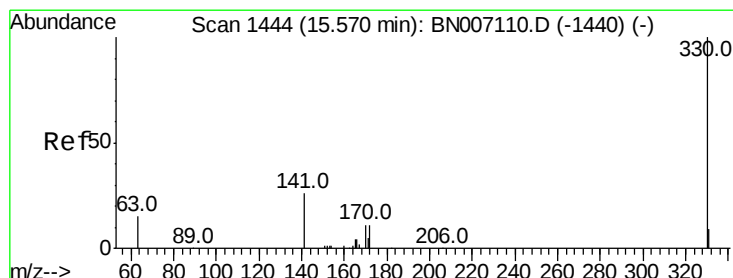
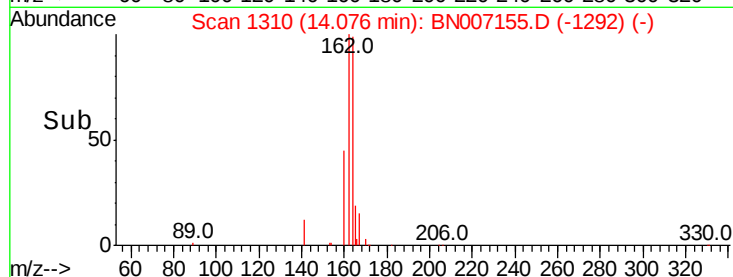
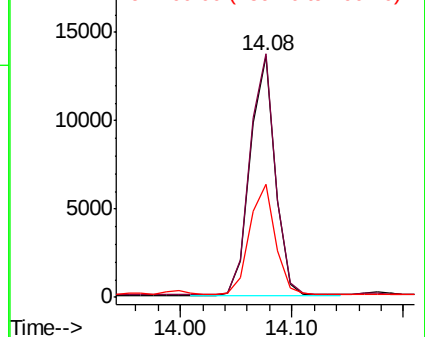
160 46.8 38.3 57.5



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: 0.245 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

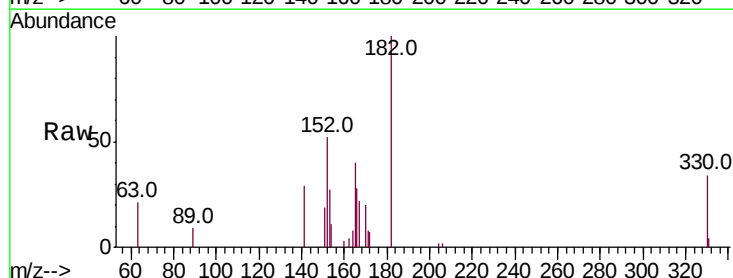
Tgt Ion:330 Resp: 2775

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

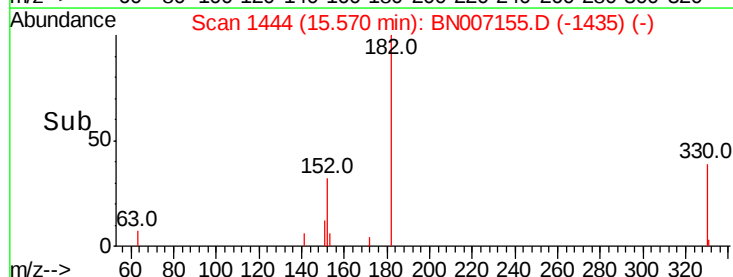
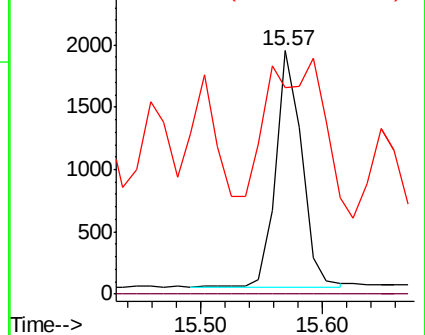
141 0.0 33.6 50.4#

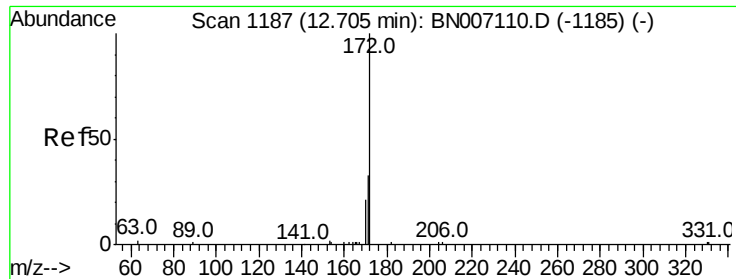


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

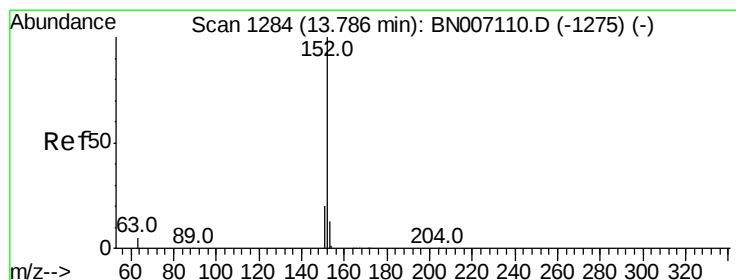
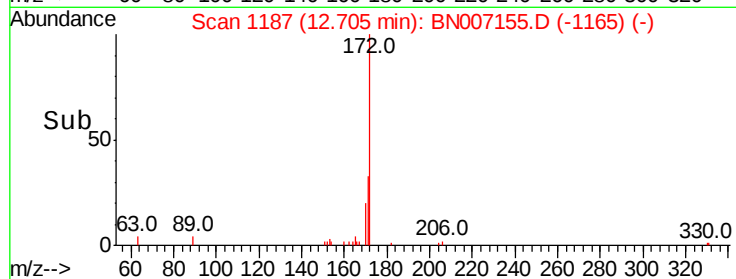
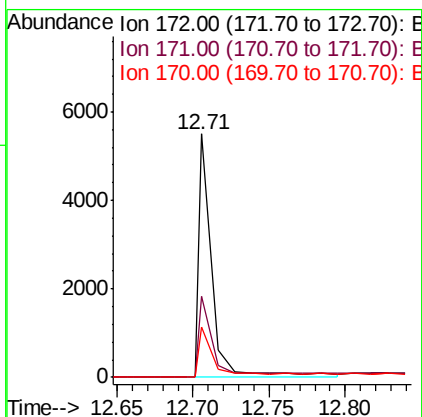
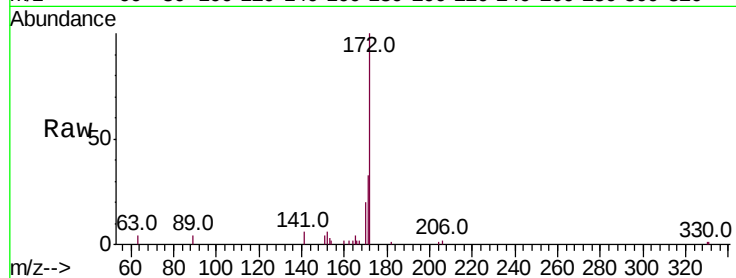




#14
2-Fluorobiphenyl
Concen: 0.130 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007155.D
Acq: 14 Aug 2019 06:21

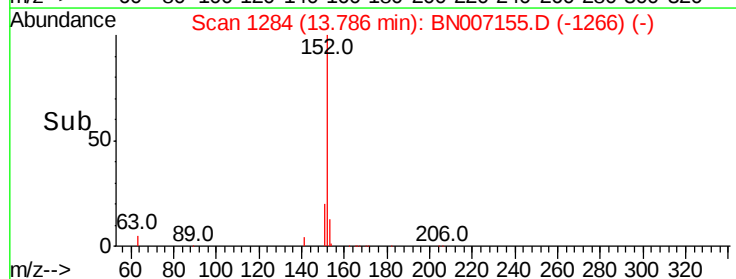
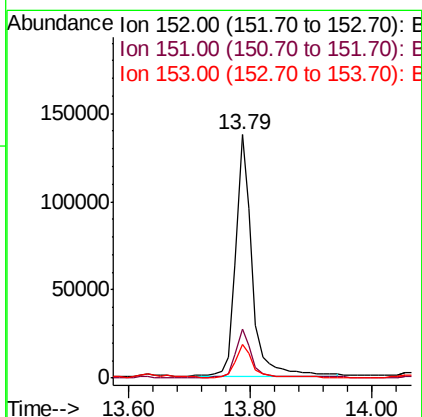
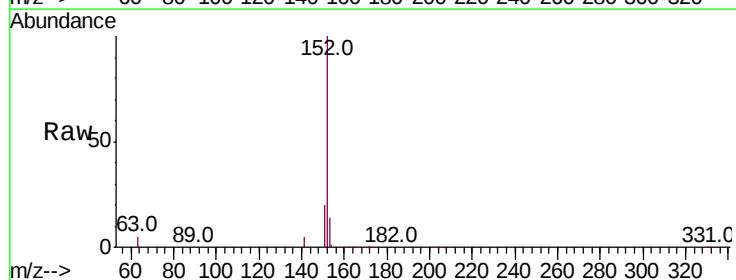
Instrument :
BNA_N
ClientSampleId :

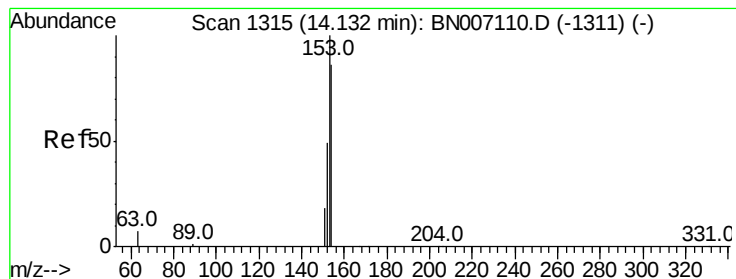
Tot Ion	Ratio	Lower	Upper
172	100		
171	33.3	26.3	39.5
170	20.4	17.0	25.4



#15
Acenaphthylene
Concen: 2.291 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007155.D
Acq: 14 Aug 2019 06:21

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.8	23.6
153	13.4	10.4	15.6





#16

Acenaphthene

Concen: 0.344 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

Instrument :

BNA_N

ClientSampleId :

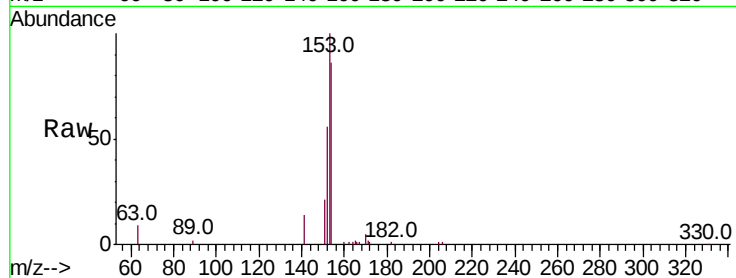
Tot Ion:154 Resp: 24251

Ion Ratio Lower Upper

154 100

153 121.5 89.5 134.3

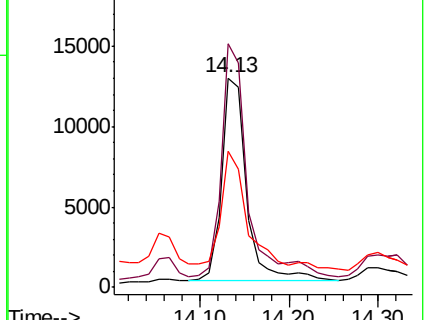
152 65.4 44.8 67.2



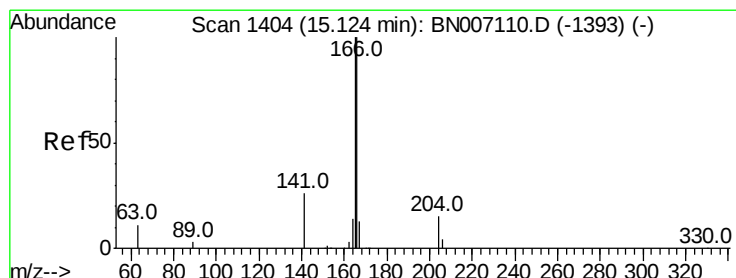
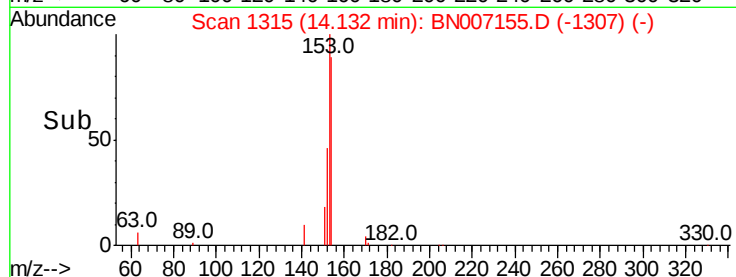
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time-->



#17

Fluorene

Concen: 0.550 ng

RT: 15.13 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

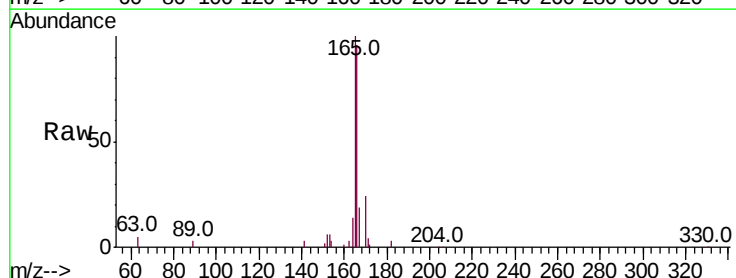
Tgt Ion:166 Resp: 57966

Ion Ratio Lower Upper

166 100

165 118.5 77.9 116.9#

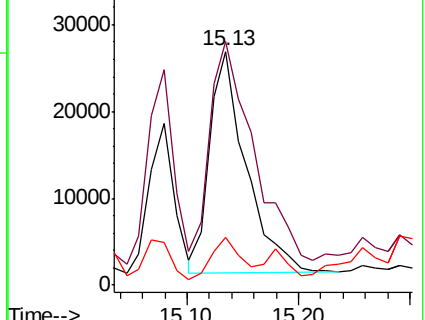
167 14.8 10.9 16.3



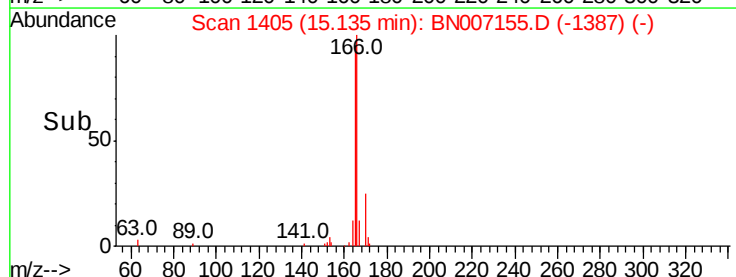
Abundance Ion 166.00 (165.70 to 166.70): E

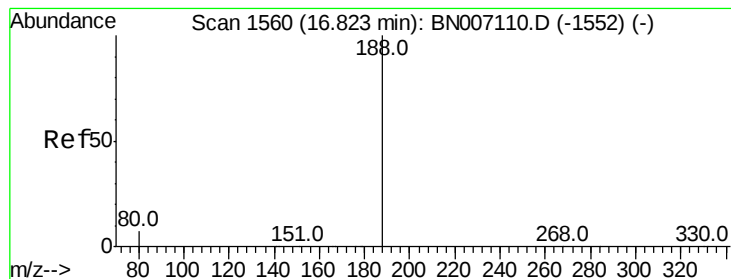
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

Instrument :

BNA_N

ClientSampleId :

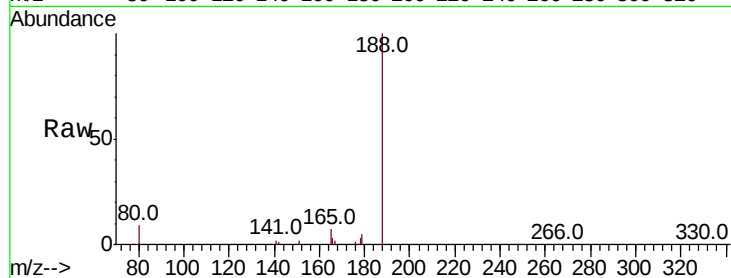
Tot Ion:188 Resp: 47593

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

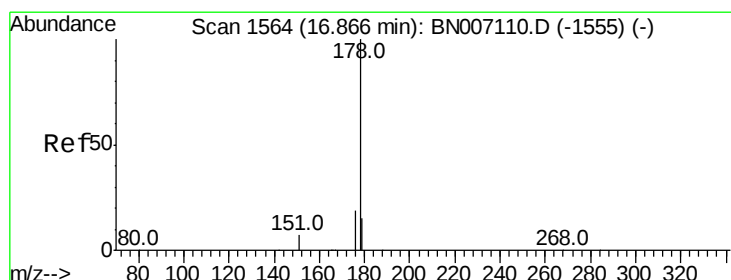
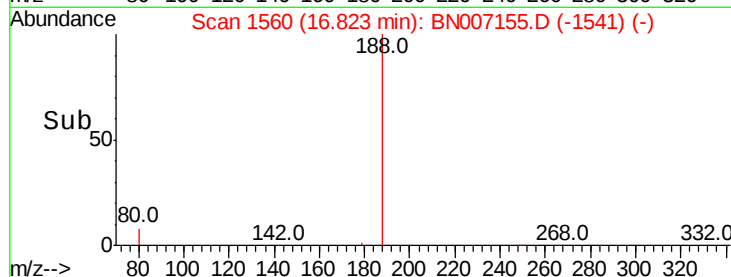
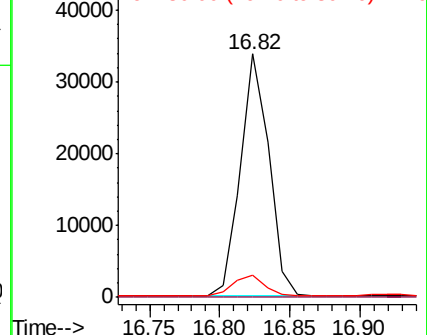
80 9.0 7.8 11.6



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: 7.257 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

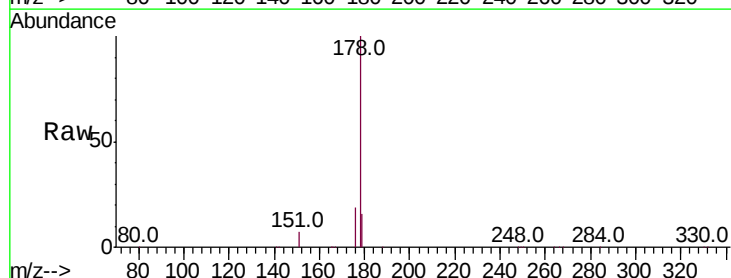
Tgt Ion:178 Resp: 1035094

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

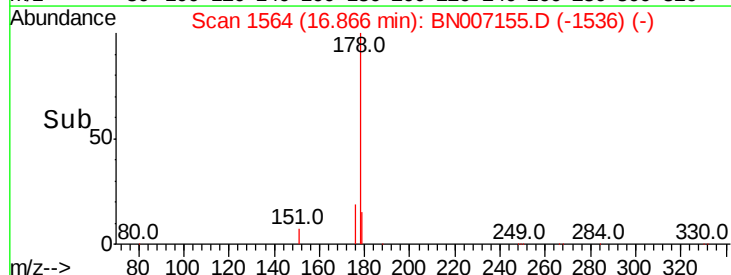
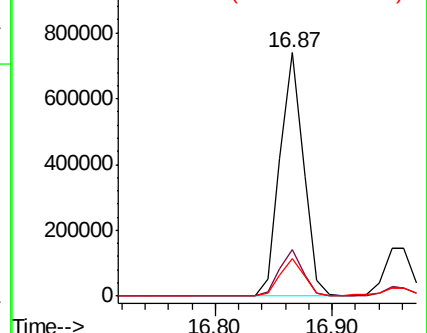
179 15.8 12.3 18.5

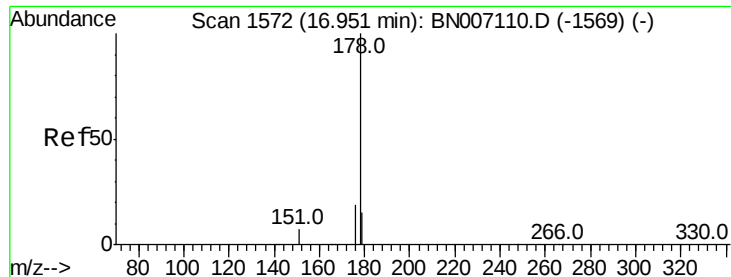


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 1.829 ng

RT: 16.96 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

Instrument :

BNA_N

ClientSampleId :

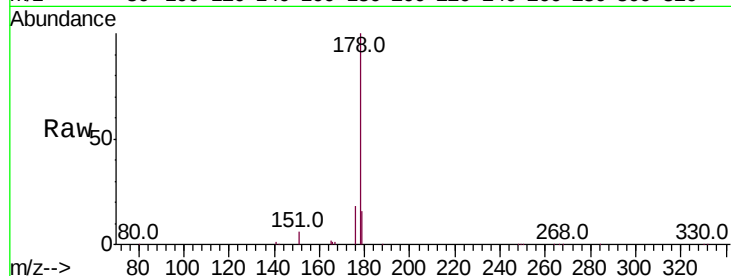
Tot Ion:178 Resp: 238306

Ion Ratio Lower Upper

178 100

176 18.3 14.6 21.8

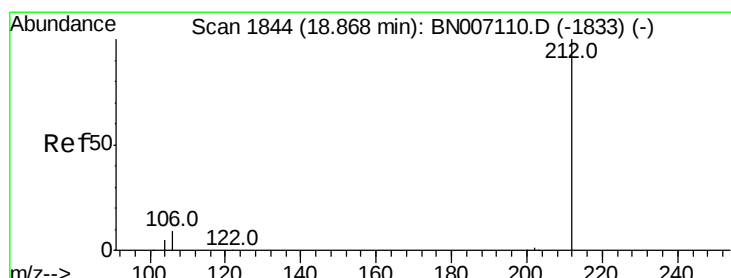
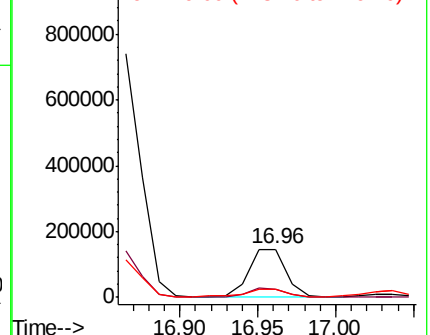
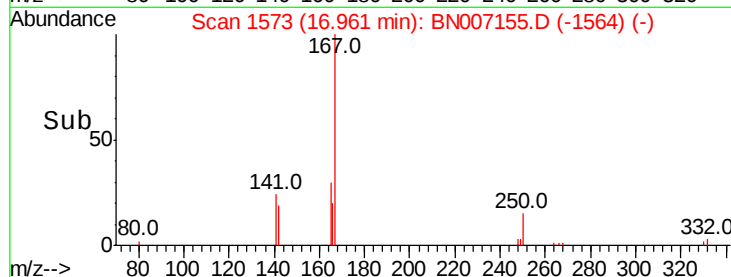
179 16.2 12.5 18.7



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: 0.253 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

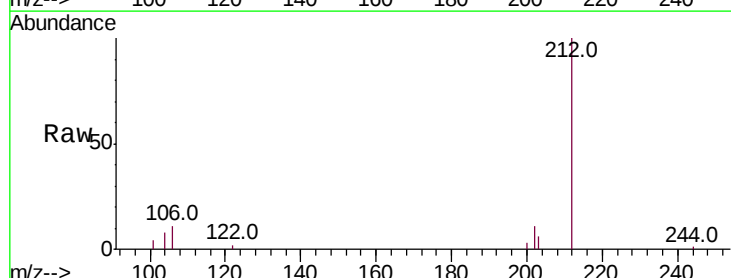
Tgt Ion:212 Resp: 42744

Ion Ratio Lower Upper

212 100

106 10.0 8.2 12.2

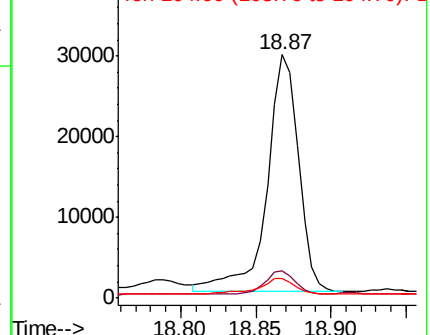
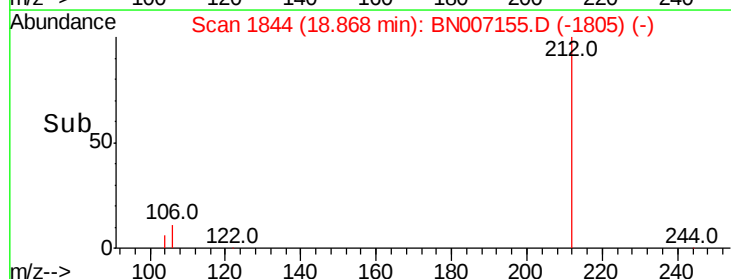
104 7.9 4.5 6.7#

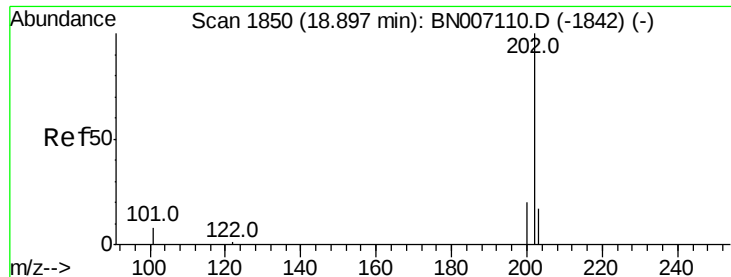


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



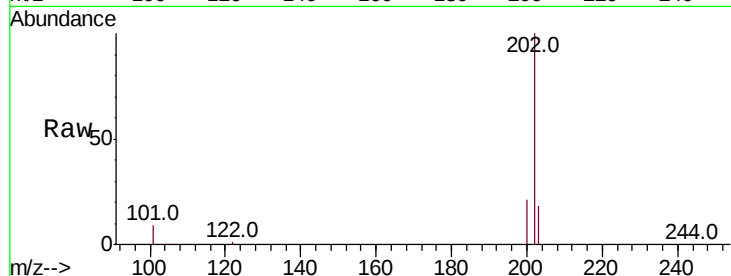


#25
 Fluoranthene
 Concen: 6.539 ng
 RT: 18.90 min Scan# 1850
 Delta R.T. -0.01 min
 Lab File: BN007155.D
 Acq: 14 Aug 2019 06:21

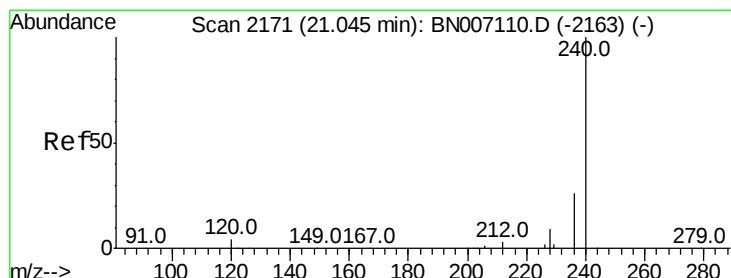
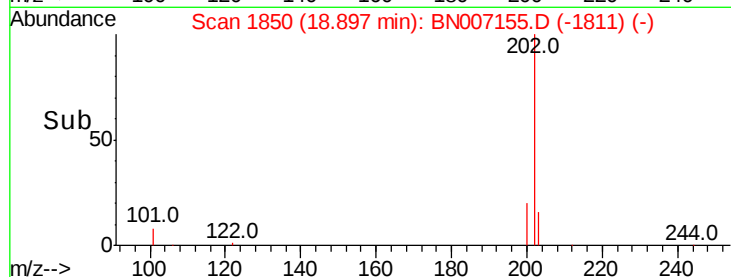
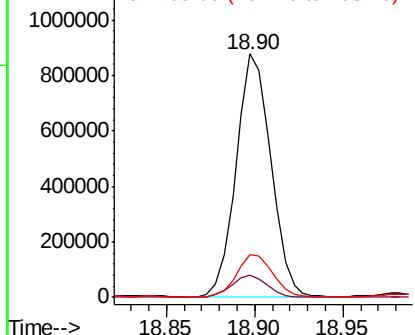
Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:202 Resp: 1193037

Ion	Ratio	Lower	Upper
202	100		
101	9.0	7.0	10.4
203	18.1	13.8	20.8



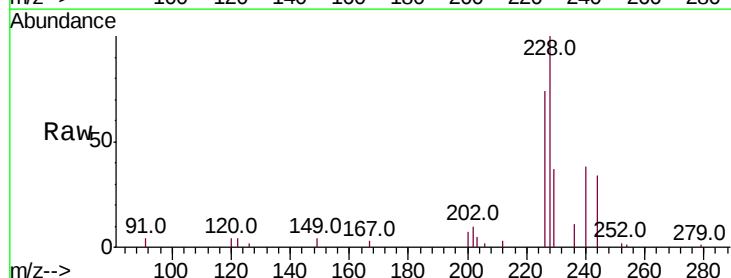
Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E



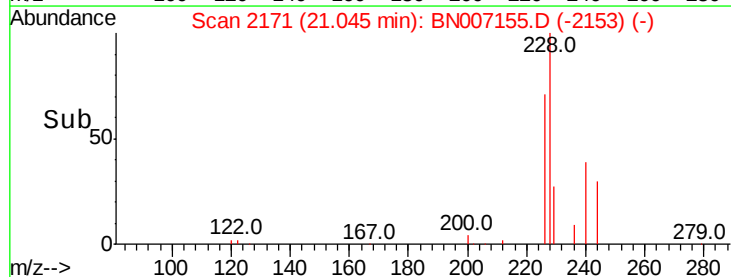
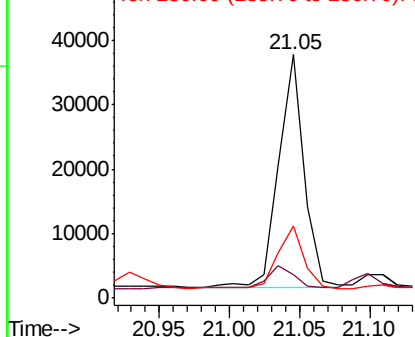
#26
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.05 min Scan# 2171
 Delta R.T. -0.01 min
 Lab File: BN007155.D
 Acq: 14 Aug 2019 06:21

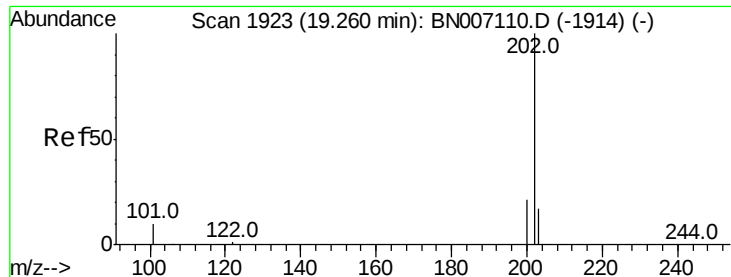
Tgt Ion:240 Resp: 46099

Ion	Ratio	Lower	Upper
240	100		
120	9.7	4.0	6.0#
236	29.4	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: 11.361 ng

RT: 19.26 min Scan# 1924

Delta R.T. -0.01 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

Instrument :

BNA_N

ClientSampleId :

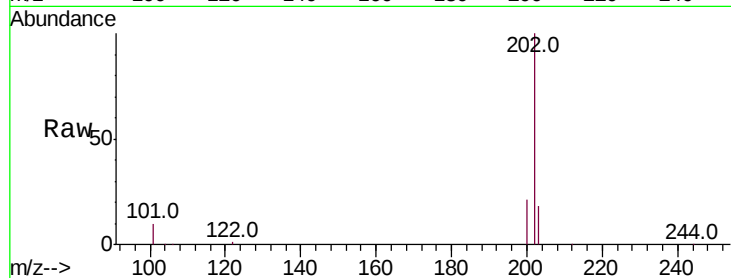
Tot Ion:202 Resp: 1836734

Ion Ratio Lower Upper

202 100

200 20.8 16.6 24.8

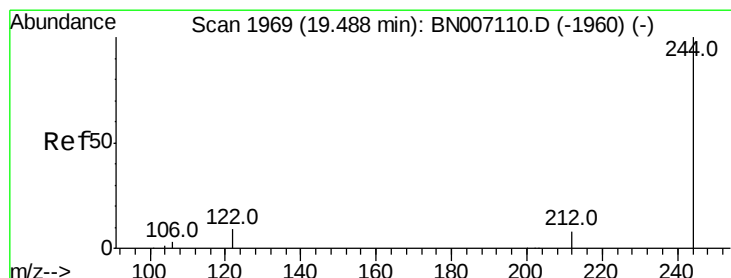
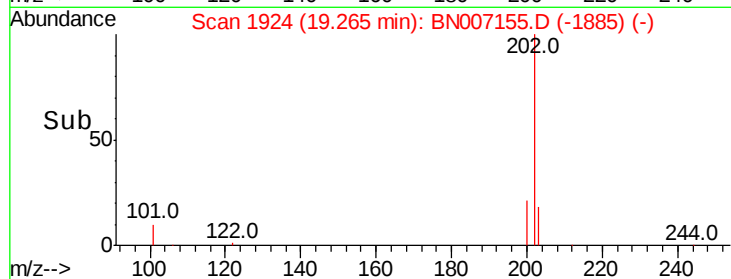
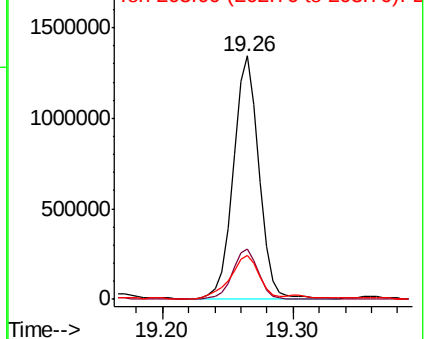
203 20.0 14.0 21.0



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: 0.245 ng

RT: 19.49 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

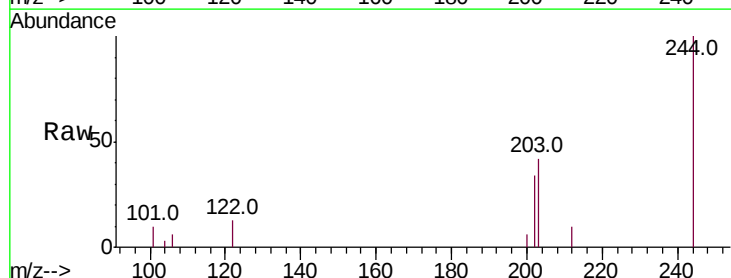
Tgt Ion:244 Resp: 30814

Ion Ratio Lower Upper

244 100

212 10.3 6.2 9.2#

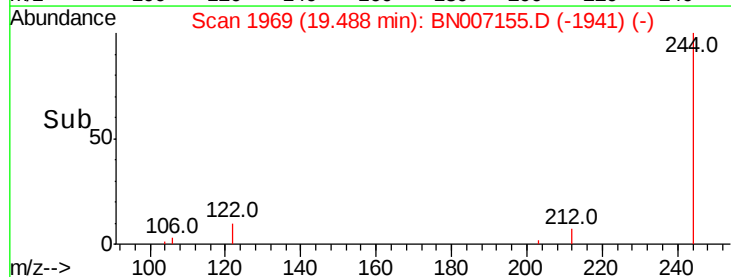
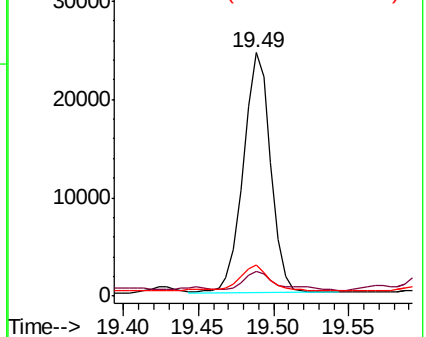
122 12.6 7.4 11.2#

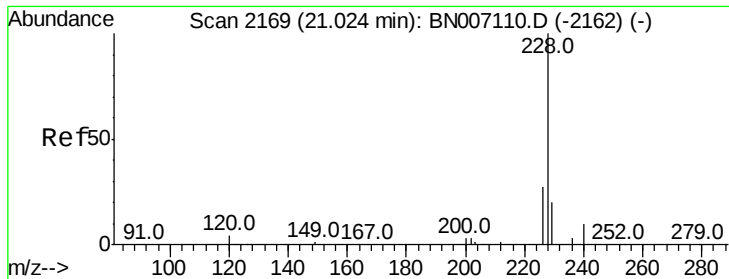


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#29

Benzo(a)anthracene

Concen: 5.624 ng

RT: 21.08 min Scan# 2174

Delta R.T. 0.04 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

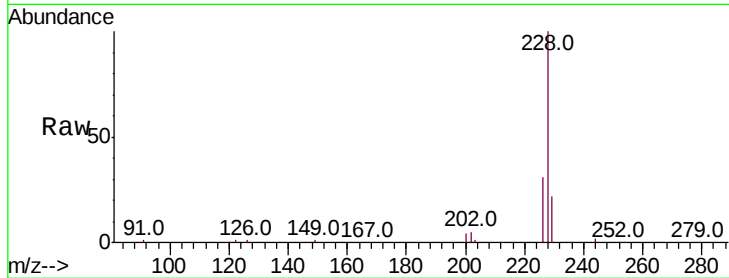
Instrument :

BNA_N

ClientSampleId :

Tot Ion:228 Resp: 948175

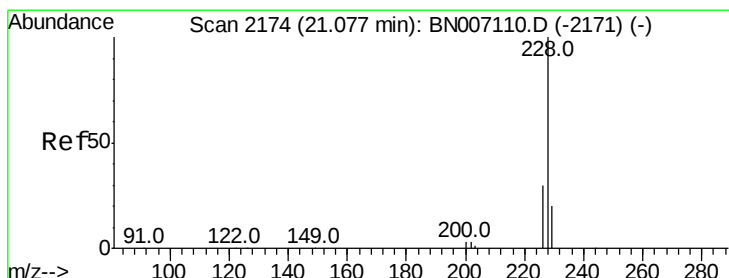
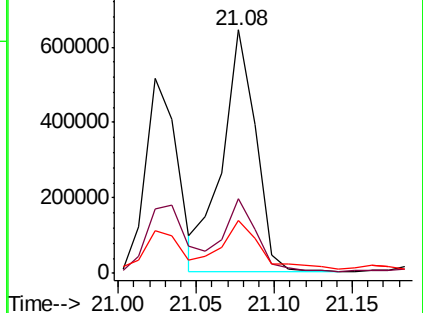
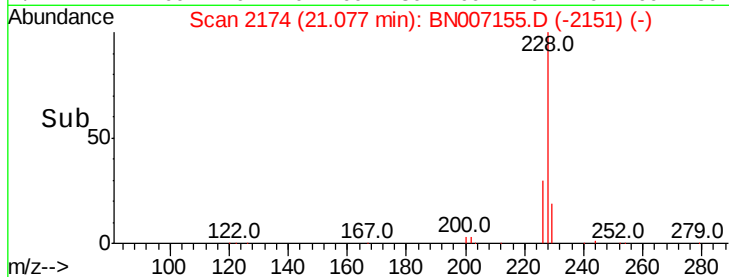
Ion	Ratio	Lower	Upper
228	100		
226	30.9	21.8	32.6
229	21.9	15.6	23.4



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: 5.789 ng

RT: 21.08 min Scan# 2174

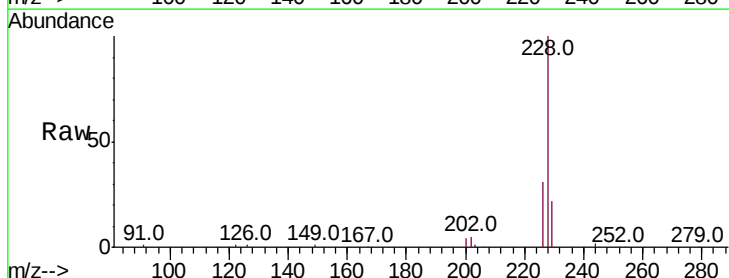
Delta R.T. -0.01 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

Tgt Ion:228 Resp: 948175

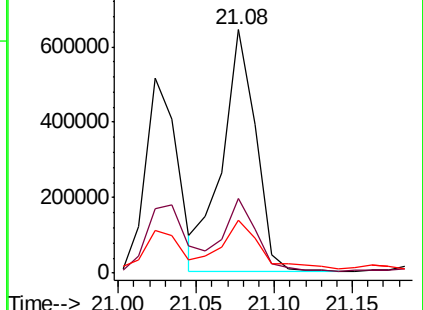
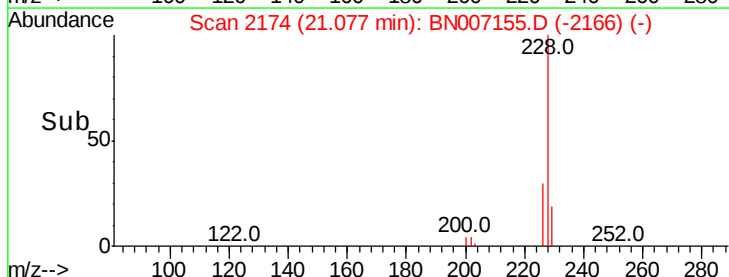
Ion	Ratio	Lower	Upper
228	100		
226	30.9	23.8	35.6
229	21.9	15.7	23.5

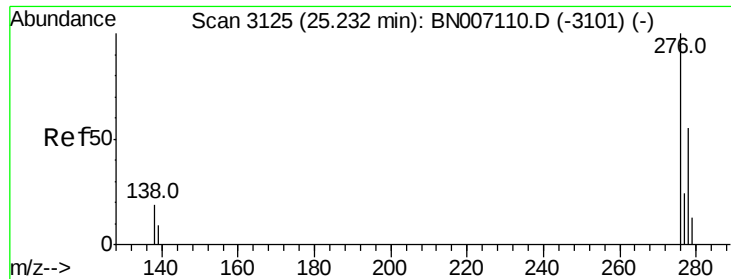


Abundance Ion 228.00 (227.70 to 228.70): E

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: 2.366 ng

RT: 25.24 min Scan# 3127

Delta R.T. -0.01 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

Instrument :

BNA_N

ClientSampleId :

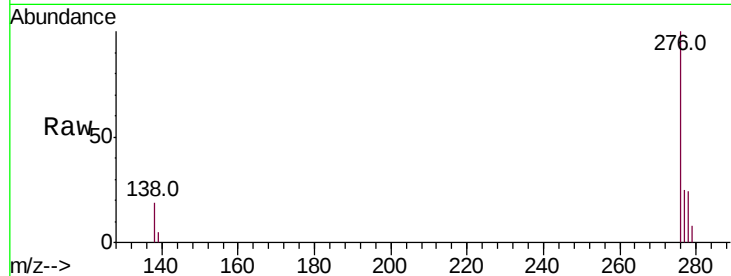
Tot Ion:276 Resp: 427092

Ion Ratio Lower Upper

276 100

138 18.7 16.0 24.0

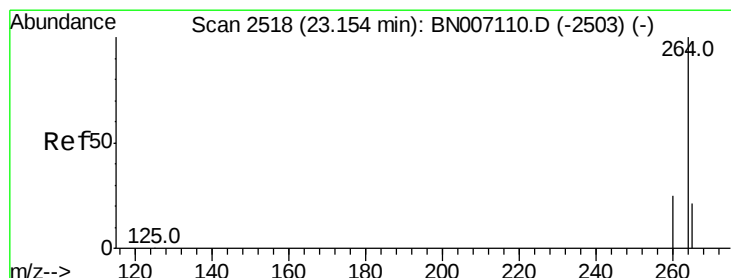
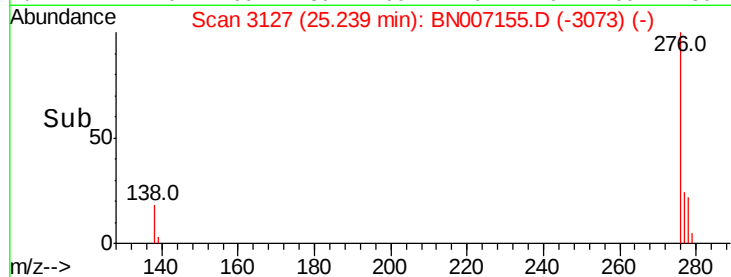
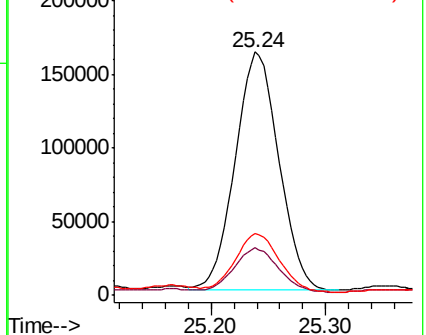
277 24.9 19.9 29.9



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# 2520

Delta R.T. -0.01 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

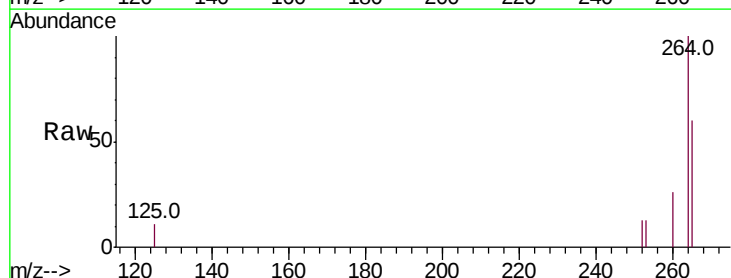
Tgt Ion:264 Resp: 54724

Ion Ratio Lower Upper

264 100

260 26.3 19.8 29.8

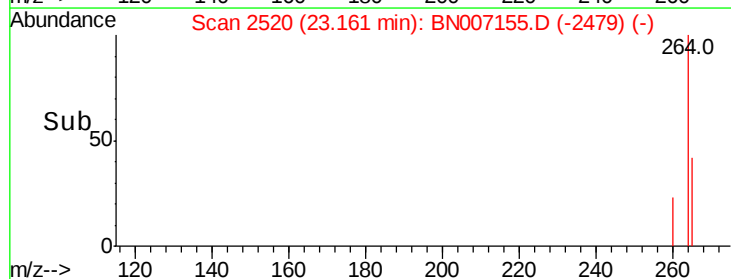
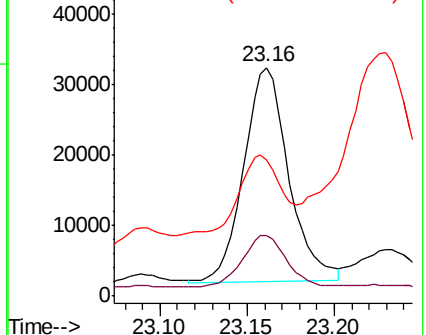
265 59.5 26.2 39.4#

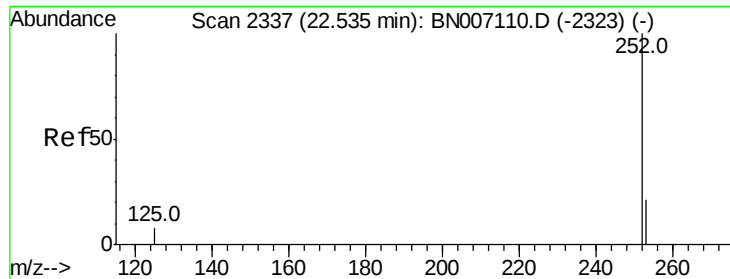


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 5.611 ng

RT: 22.54 min Scan# 2339

Delta R.T. -0.01 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

Instrument :

BNA_N

ClientSampleId :

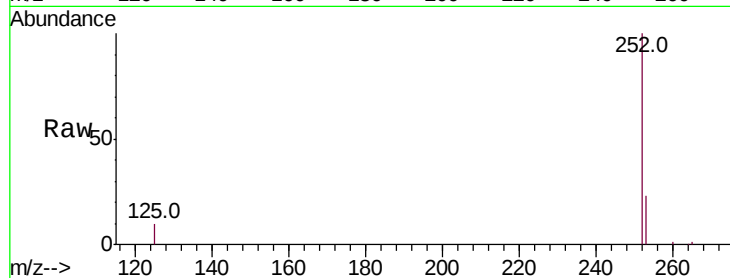
Tot Ion:252 Resp: 1052852

Ion Ratio Lower Upper

252 100

253 23.2 18.2 27.2

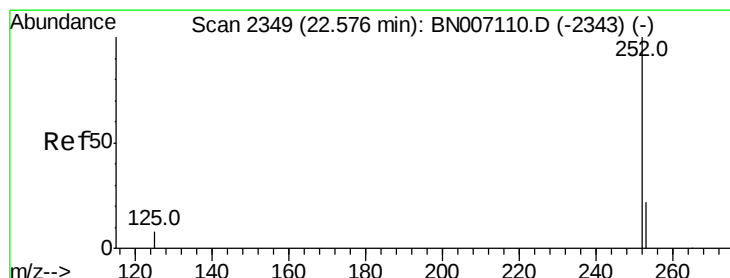
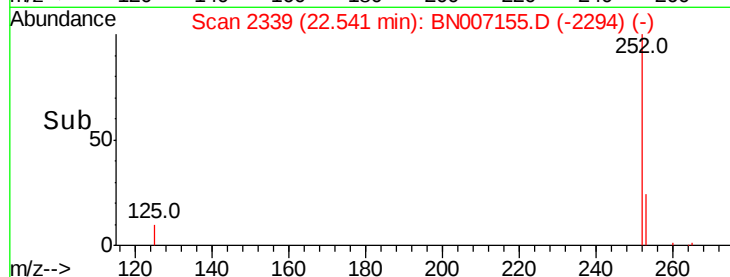
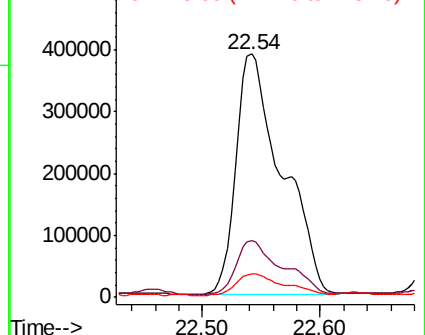
125 9.6 7.4 11.0



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



#34

Benzo(k)fluoranthene

Concen: 5.681 ng

RT: 22.54 min Scan# 2339

Delta R.T. -0.05 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

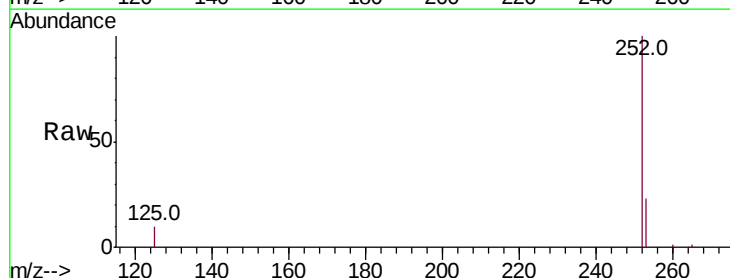
Tgt Ion:252 Resp: 1052852

Ion Ratio Lower Upper

252 100

253 23.2 18.1 27.1

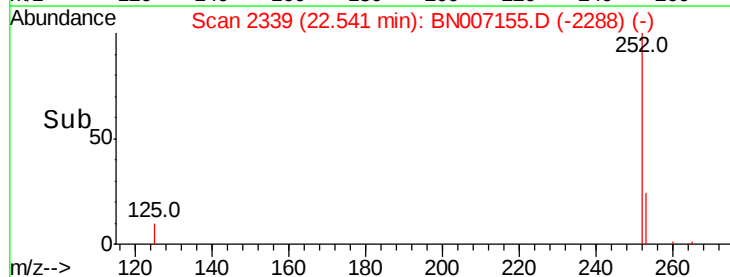
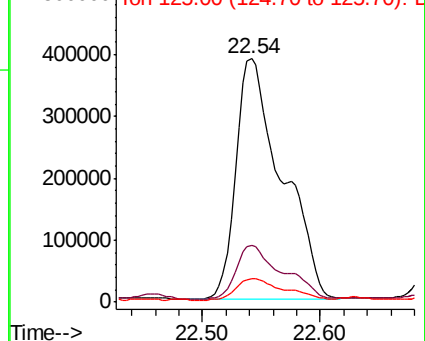
125 9.6 7.4 11.0

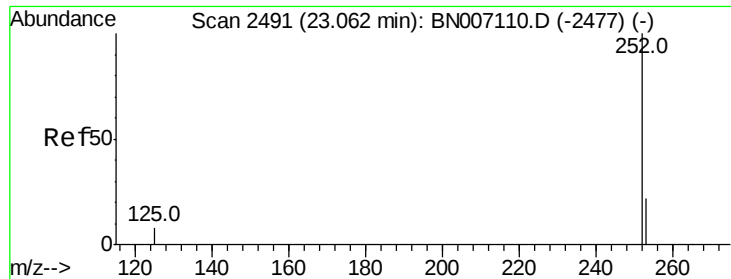


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#35

Benzo(a)pyrene

Concen: 3.997 ng

RT: 23.07 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

Instrument :

BNA_N

ClientSampleId :

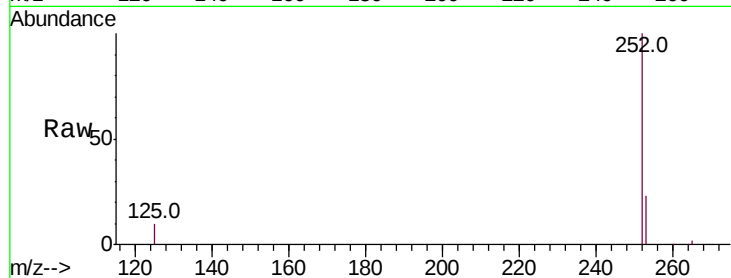
Tot Ion:252 Resp: 679986

Ion Ratio Lower Upper

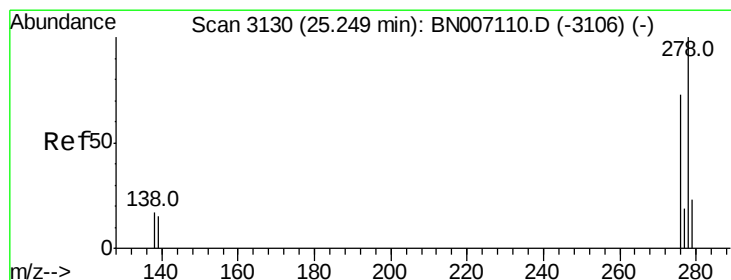
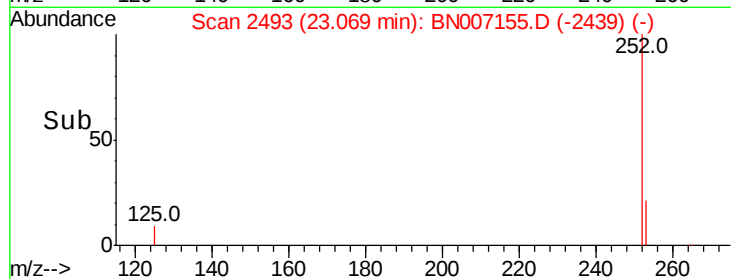
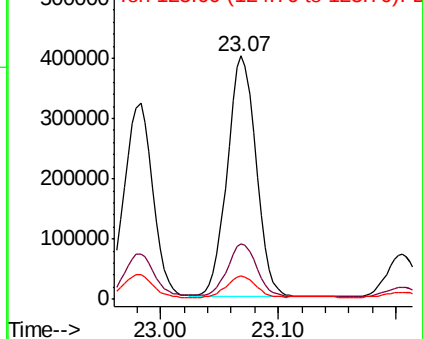
252 100

253 23.0 18.5 27.7

125 9.6 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: 0.737 ng

RT: 25.25 min Scan# 3130

Delta R.T. -0.02 min

Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

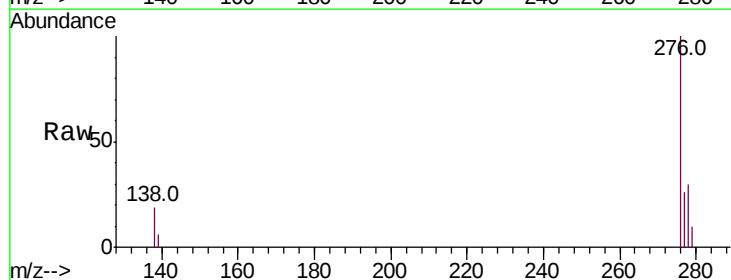
Tgt Ion:278 Resp: 125016

Ion Ratio Lower Upper

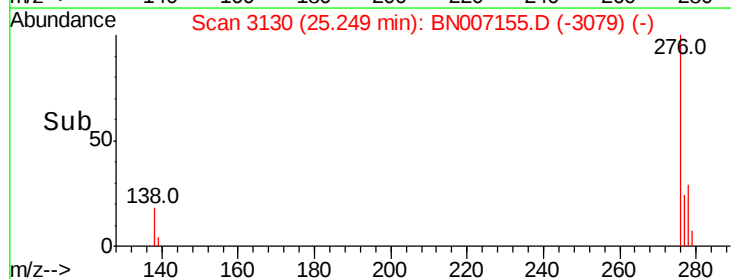
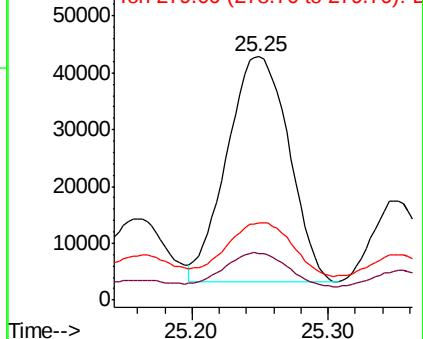
278 100

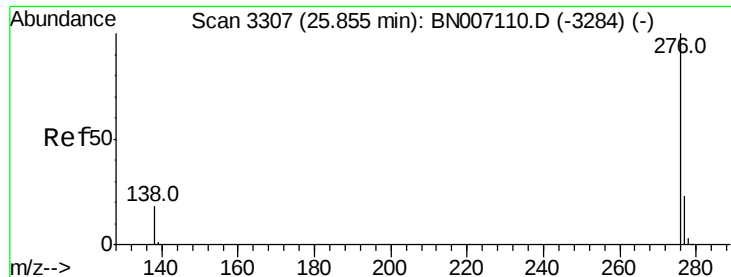
139 19.3 11.3 16.9#

279 31.9 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: 2.870 ng

RT: 25.87 min Scan# 3312

Delta R.T. -0.01 min

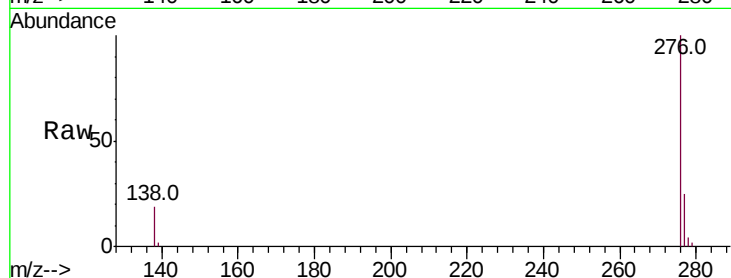
Lab File: BN007155.D

Acq: 14 Aug 2019 06:21

Instrument :

BNA_N

ClientSampleId :



Tot Ion: 276 Resp: 501122

Ion Ratio Lower Upper

276 100

277 24.8 19.8 29.8

138 18.8 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

