

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081019\
 Data File : BN007058.D
 Acq On : 10 Aug 2019 21:10
 Operator : HP/JU
 Sample : K4144-11
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 12 04:37:54 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	7997	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	29891	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	17420	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	43537	0.40	ng	0.00
26) Chrysene-d12	21.05	240	45798	0.40	ng	-0.01
32) Perylene-d12	23.16	264	50399	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	5086	0.26	ng	0.00
4) Phenol-d6	6.61	99	7072	0.30	ng	0.00
7) Nitrobenzene-d5	8.56	82	5354	0.22	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	12401	0.22	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1682	0.18	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	4898	0.19	ng	0.00
24) Fluoranthene-d10	18.87	212	30847	0.20	ng	0.00
28) Terphenyl-d14	19.49	244	23756	0.19	ng	0.00

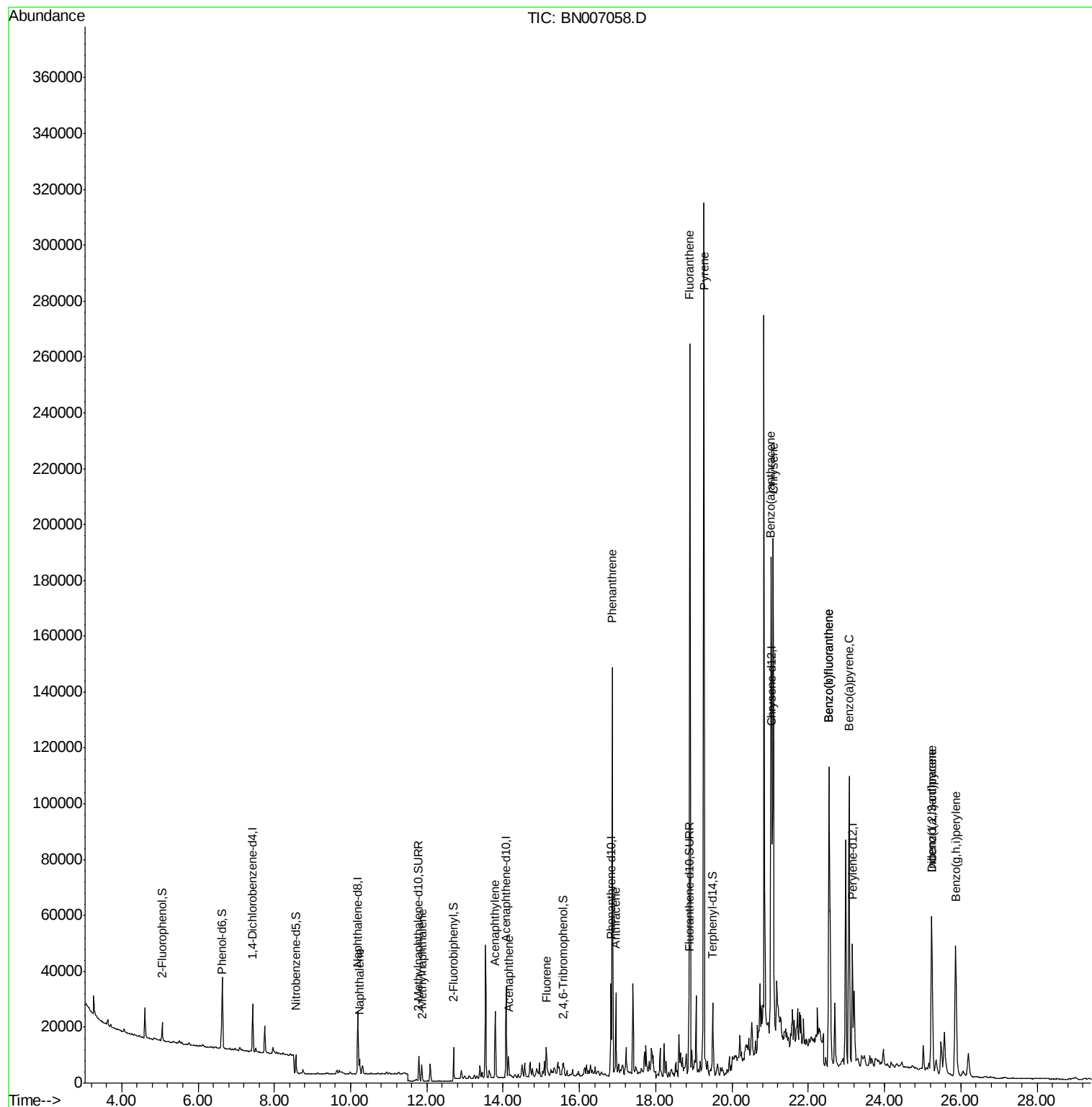
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.24	128	6444	0.077	ng	96
11) 2-Methylnaphthalene	11.87	142	4358	0.073	ng	96
15) Acenaphthylene	13.79	152	30812	0.338	ng	99
16) Acenaphthene	14.14	154	4189	0.072	ng	94
17) Fluorene	15.14	166	6955	0.080	ng	# 84
22) Phenanthrene	16.87	178	140810	1.079	ng	100
23) Anthracene	16.96	178	33119	0.278	ng	# 95
25) Fluoranthene	18.90	202	241694	1.448	ng	100
27) Pyrene	19.26	202	285207	1.776	ng	# 95
29) Benzo(a)anthracene	21.02	228	151001	0.902	ng	93
30) Chrysene	21.08	228	152252	0.936	ng	96
31) Indeno(1,2,3-cd)pyrene	25.24	276	86689	0.483	ng	98
33) Benzo(b)fluoranthene	22.54	252	236869	1.371	ng	99
34) Benzo(k)fluoranthene	22.54	252	236869	1.388	ng	99
35) Benzo(a)pyrene	23.07	252	137440	0.877	ng	99
36) Dibenzo(a,h)anthracene	25.25	278	25141	0.161	ng	# 87
37) Benzo(a,h,i)perylene	25.87	276	98229	0.611	ng	99

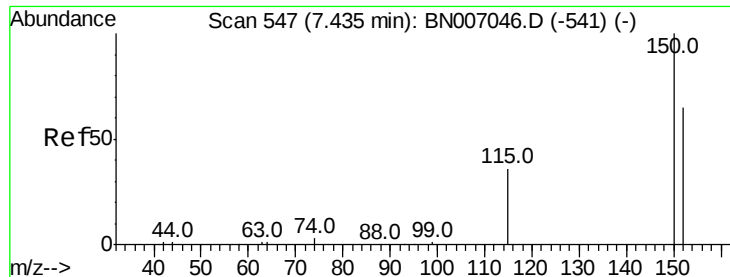
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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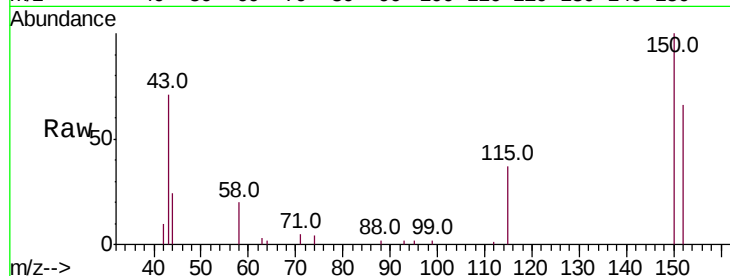


#1

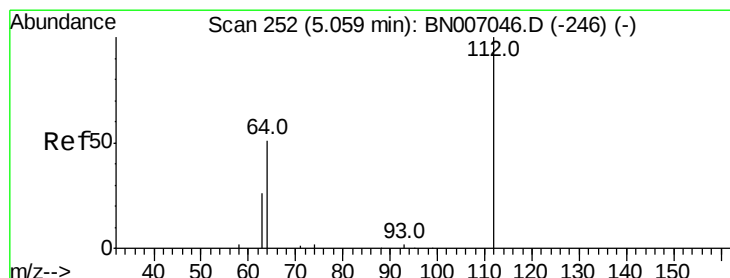
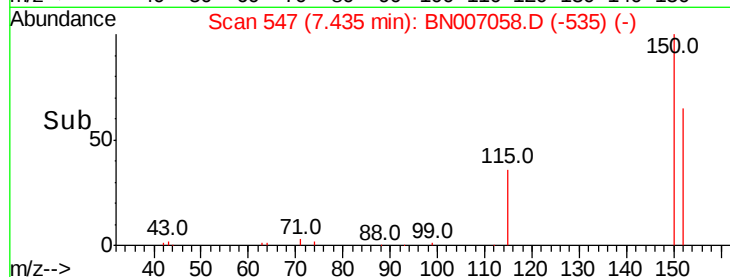
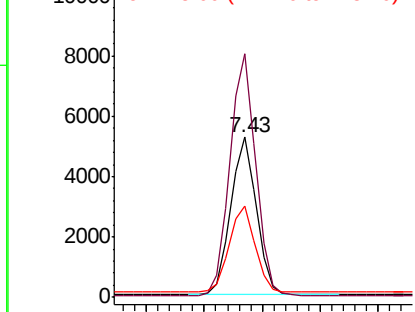
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007058.D
Acq: 10 Aug 2019 21:10

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 7997
Ion Ratio Lower Upper
152 100
150 152.1 121.7 182.5
115 57.0 46.2 69.4



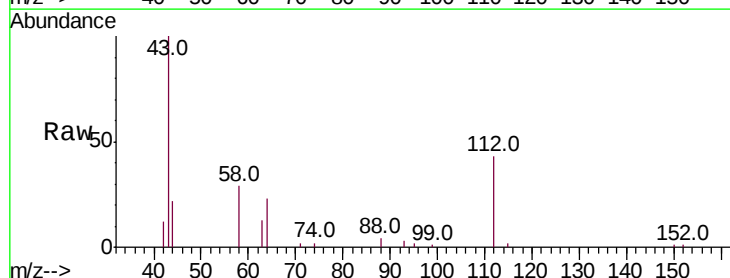
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



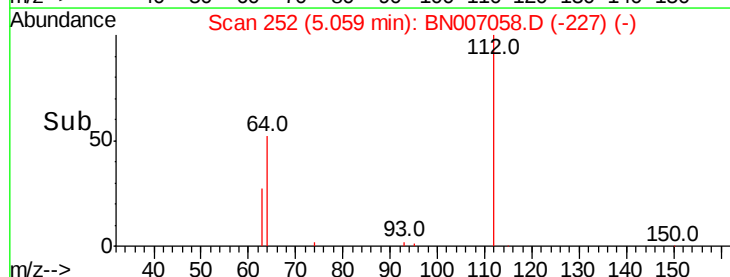
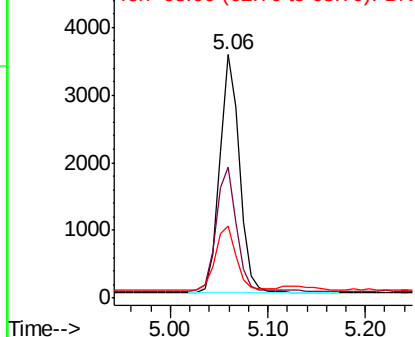
#3

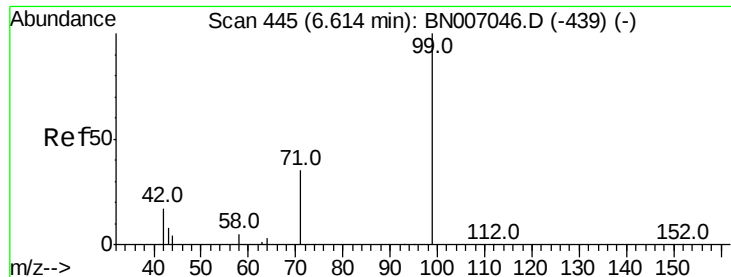
2-Fluorophenol
Concen: 0.265 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007058.D
Acq: 10 Aug 2019 21:10

Tgt Ion:112 Resp: 5086
Ion Ratio Lower Upper
112 100
64 52.9 42.6 63.8
63 27.5 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: 0.297 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

Instrument :

BNA_N

ClientSampleId :

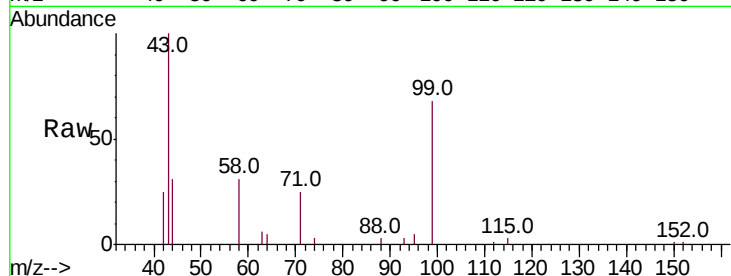
Tot Ion: 99 Resp: 7072

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

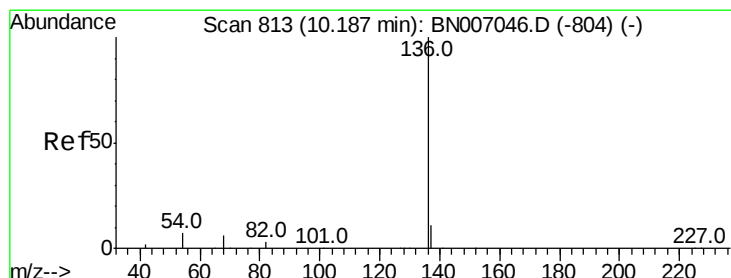
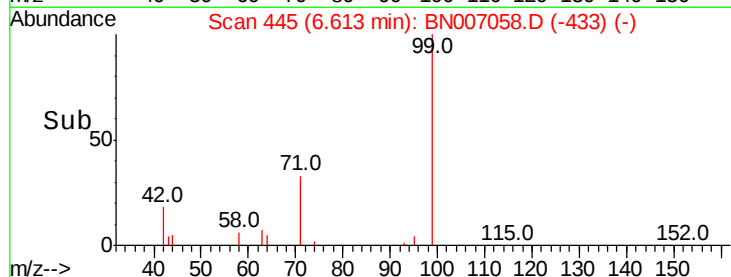
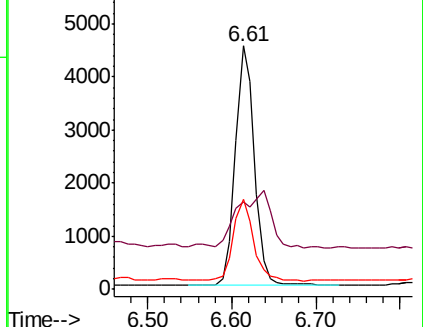
71 36.4 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007046.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007046.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007046.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

Tgt Ion: 136 Resp: 29891

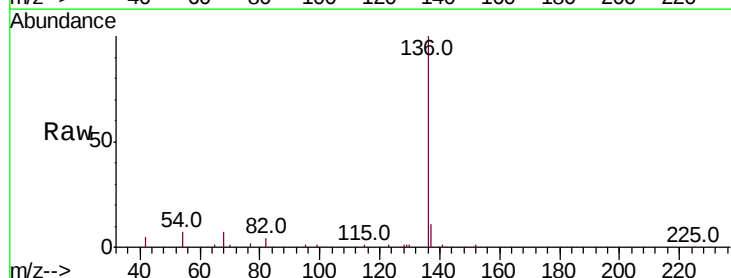
Ion Ratio Lower Upper

136 100

137 11.4 9.4 14.0

54 7.4 6.6 9.8

68 7.0 6.0 9.0

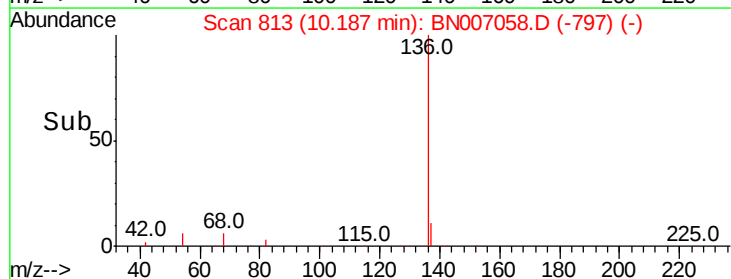
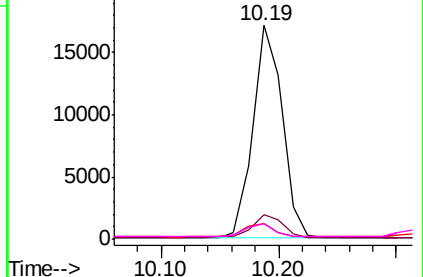


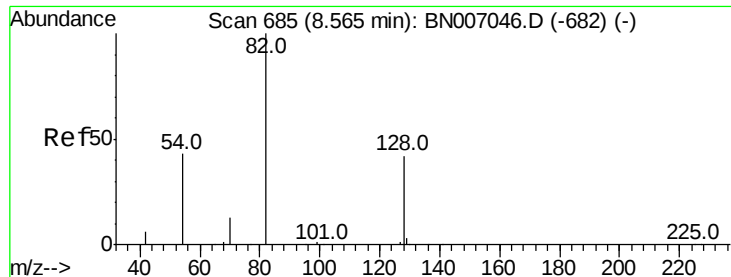
Abundance Ion 136.00 (135.70 to 136.70): BN007046.D (-804) (-)

Ion 137.00 (136.70 to 137.70): BN007046.D (-804) (-)

Ion 54.00 (53.70 to 54.70): BN007046.D (-804) (-)

Ion 68.00 (67.70 to 68.70): BN007046.D (-804) (-)





#7

Nitrobenzene-d5

Concen: 0.222 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

Instrument :

BNA_N

ClientSampleId :

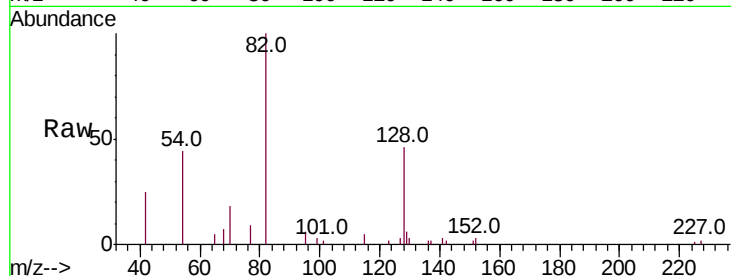
Tot Ion: 82 Resp: 5354

Ion Ratio Lower Upper

82 100

128 45.6 34.6 51.8

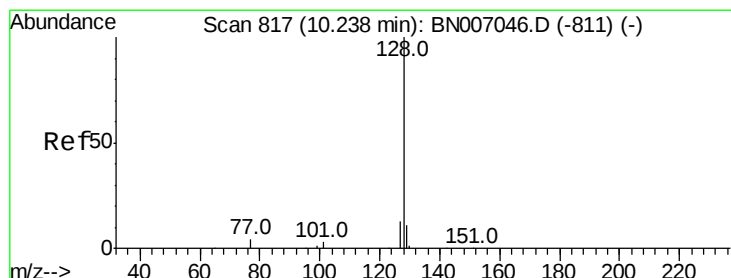
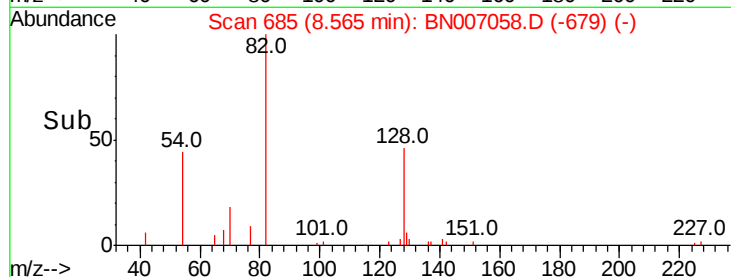
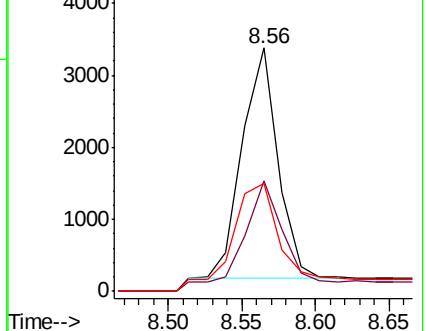
54 44.4 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007046.D (-682) (-)

Ion 128.00 (127.70 to 128.70): BN007046.D (-682) (-)

Ion 54.00 (53.70 to 54.70): BN007046.D (-682) (-)



#8

Naphthalene

Concen: 0.077 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

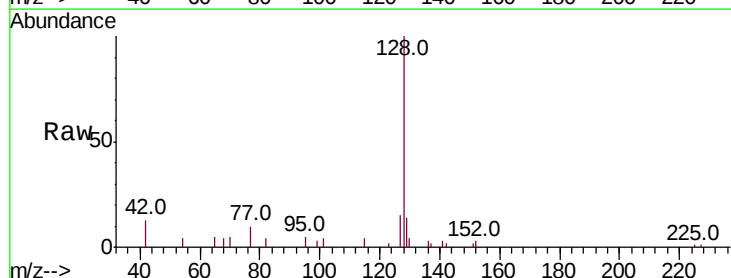
Tgt Ion: 128 Resp: 6444

Ion Ratio Lower Upper

128 100

129 13.5 9.4 14.2

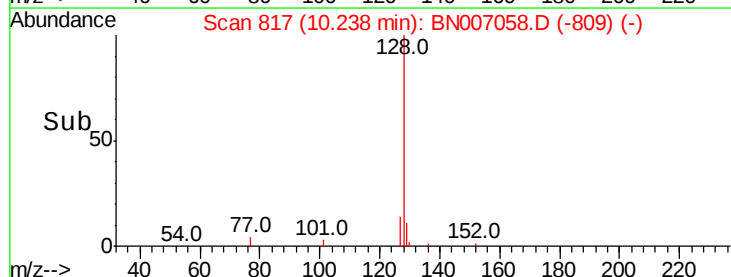
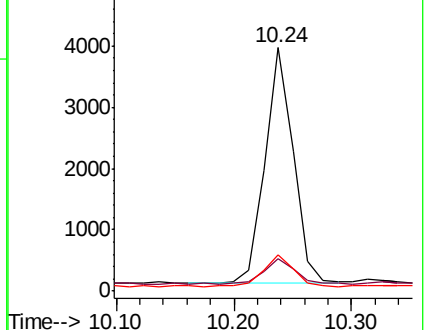
127 15.0 11.0 16.6

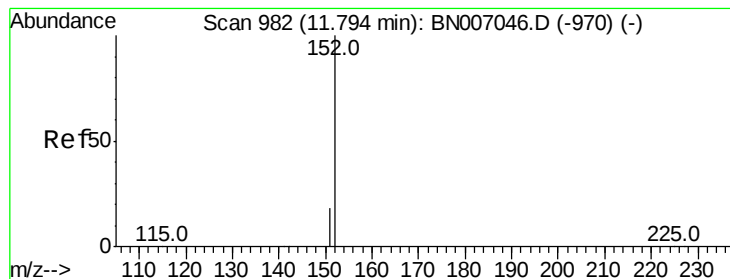


Abundance Ion 128.00 (127.70 to 128.70): BN007046.D (-811) (-)

Ion 129.00 (128.70 to 129.70): BN007046.D (-811) (-)

Ion 127.00 (126.70 to 127.70): BN007046.D (-811) (-)





#10

2-Methylnaphthalene-d10

Concen: 0.223 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

Instrument :

BNA_N

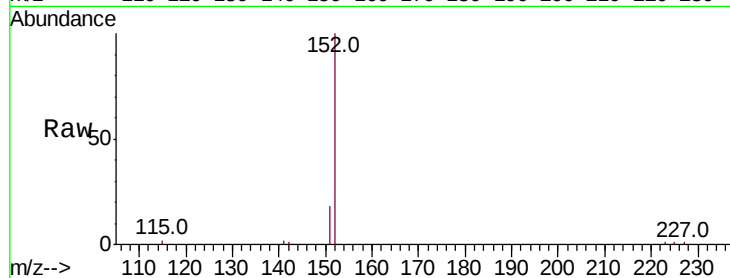
ClientSampleId :

Tot Ion:152 Resp: 12401

Ion Ratio Lower Upper

152 100

151 19.5 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.79

8000

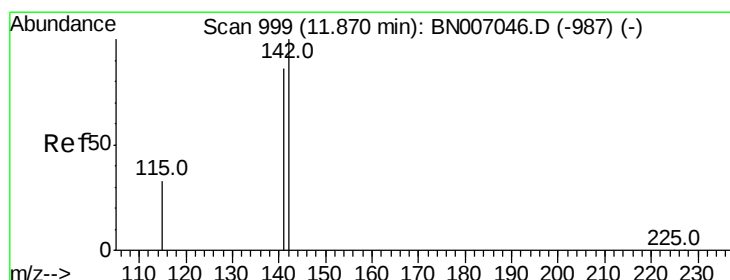
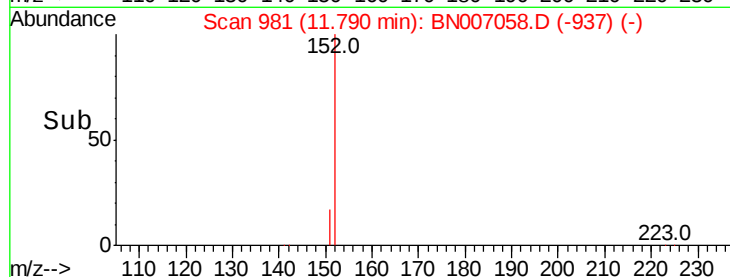
6000

4000

2000

0

Time--> 11.70 11.80



#11

2-Methylnaphthalene

Concen: 0.073 ng

RT: 11.87 min Scan# 998

Delta R.T. -0.00 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

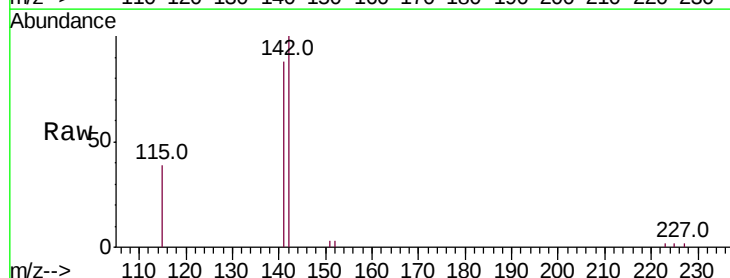
Tgt Ion:142 Resp: 4358

Ion Ratio Lower Upper

142 100

141 87.6 69.0 103.6

115 39.0 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

11.87

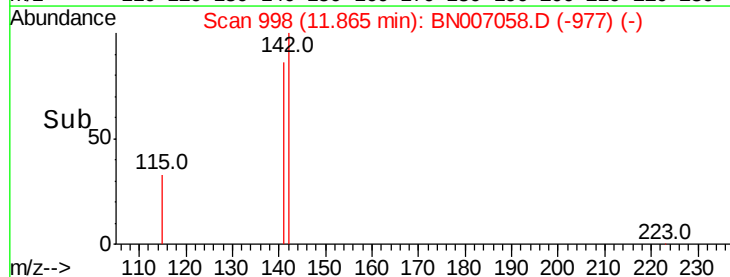
3000

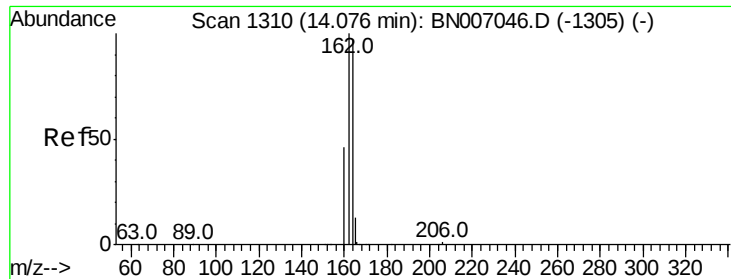
2000

1000

0

Time--> 11.80 11.85 11.90 11.95





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

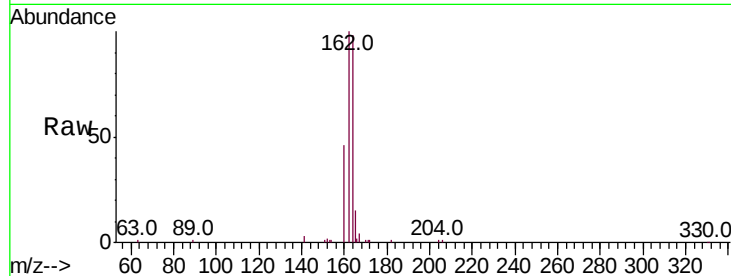
Instrument :

BNA_N

ClientSampleId :

Tot Ion:164 Resp: 17420

Ion	Ratio	Lower	Upper
164	100		
162	101.6	82.2	123.4
160	47.0	38.3	57.5

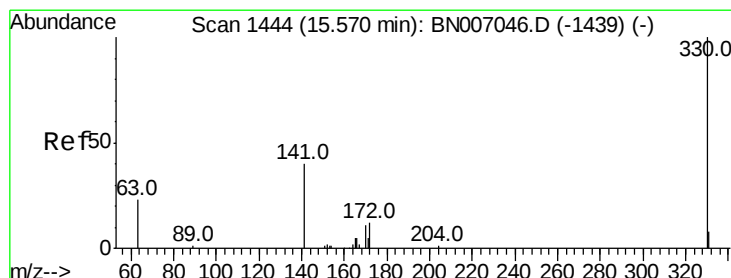
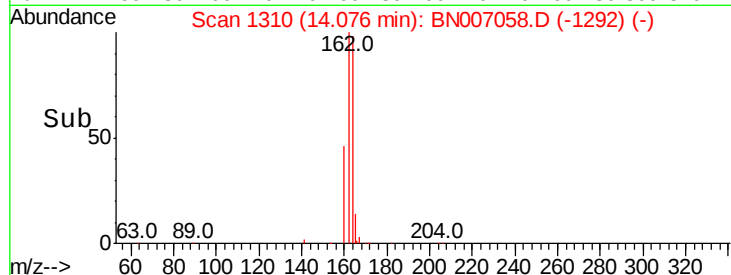
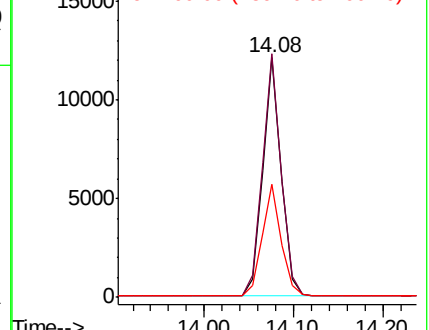


Abundance

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: 0.179 ng

RT: 15.57 min Scan# 1444

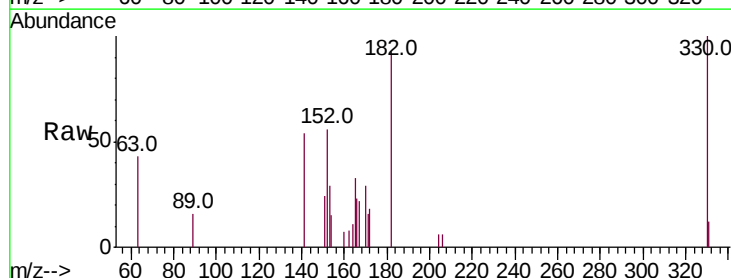
Delta R.T. -0.00 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

Tgt Ion:330 Resp: 1682

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	63.4	33.6	50.4#

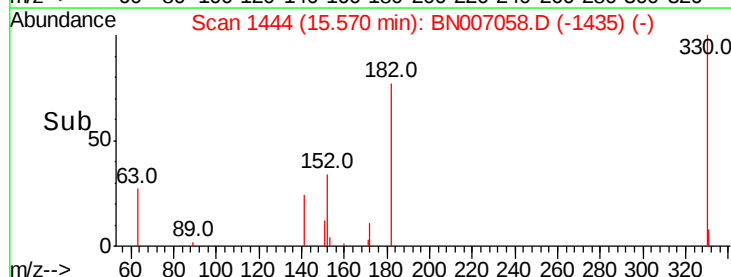
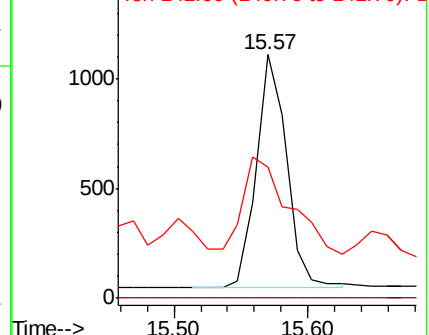


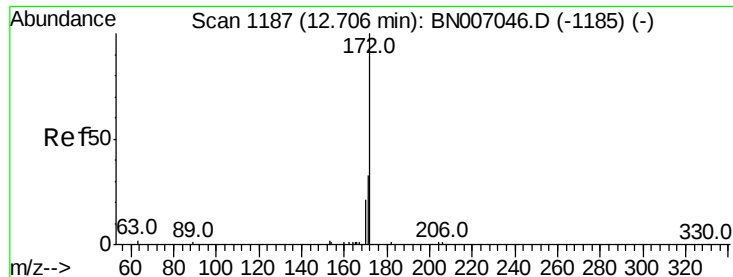
Abundance

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

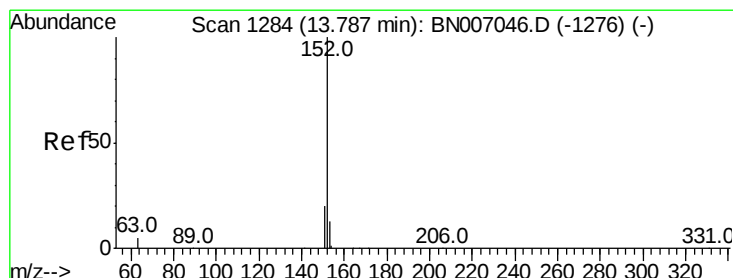
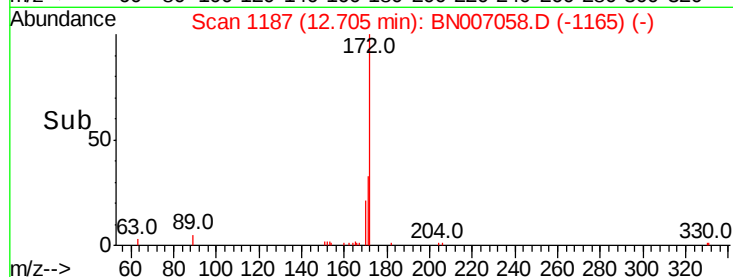
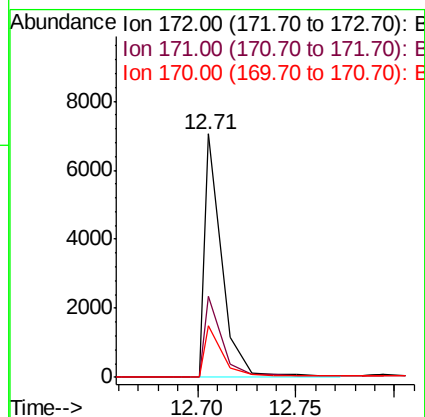
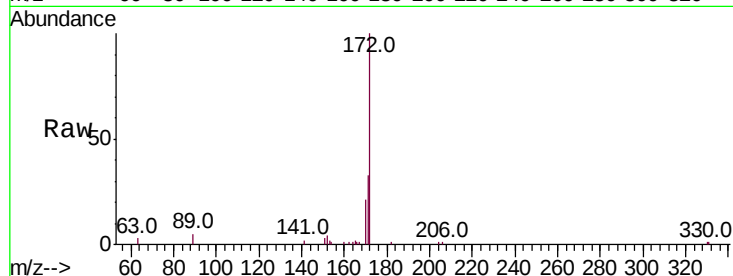




#14
2-Fluorobiphenyl
Concen: 0.193 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007058.D
Acq: 10 Aug 2019 21:10

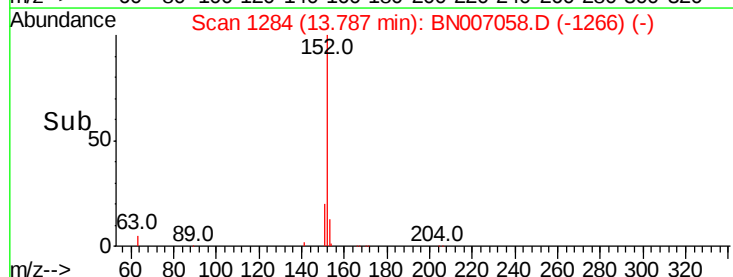
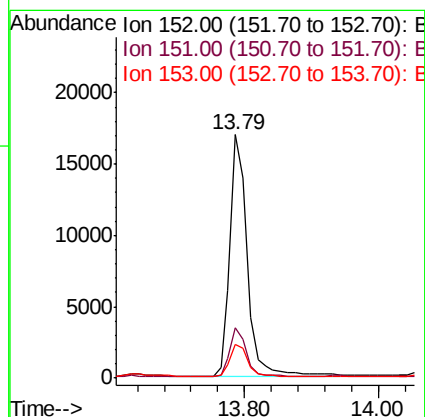
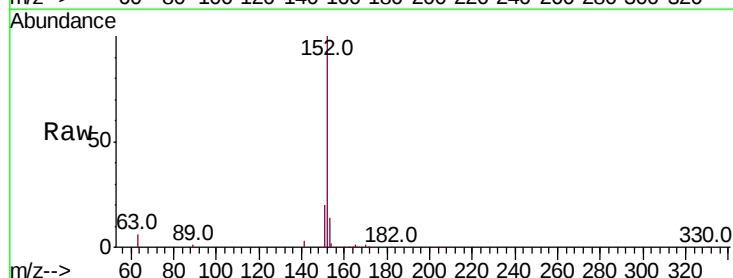
Instrument :
BNA_N
ClientSampleId :

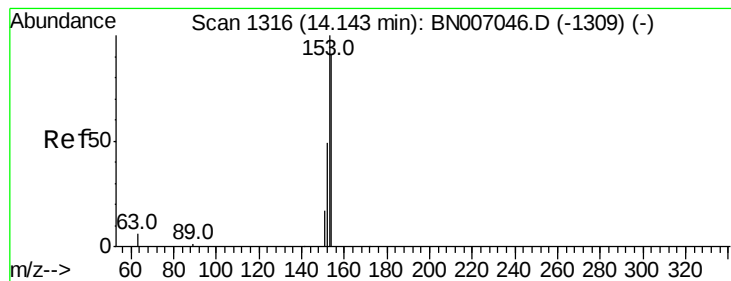
Tot Ion:172 Resp: 4898
Ion Ratio Lower Upper
172 100
171 33.3 26.3 39.5
170 21.1 17.0 25.4



#15
Acenaphthylene
Concen: 0.338 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007058.D
Acq: 10 Aug 2019 21:10

Tgt Ion:152 Resp: 30812
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.6
153 13.6 10.4 15.6





#16

Acenaphthene

Concen: 0.072 ng

RT: 14.14 min Scan# 1316

Delta R.T. -0.00 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

Instrument :

BNA_N

ClientSampleId :

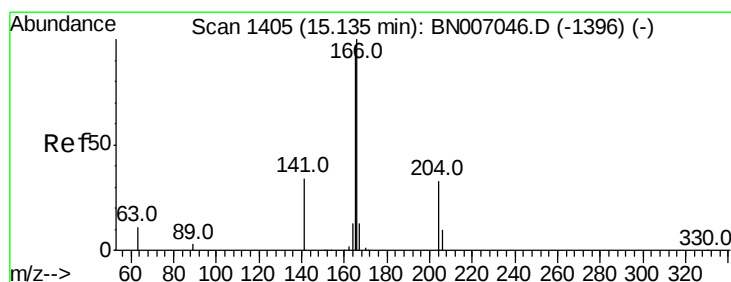
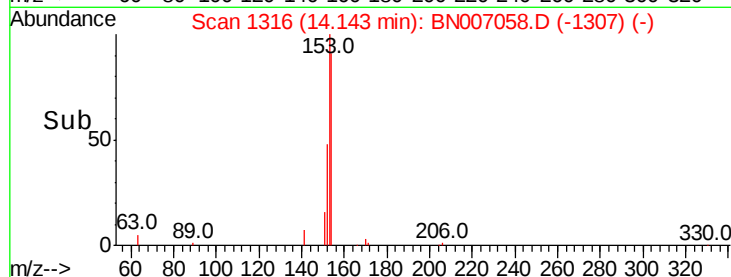
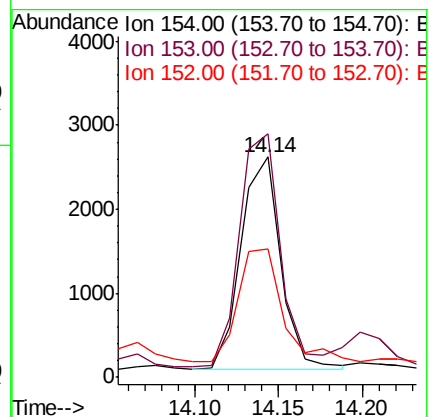
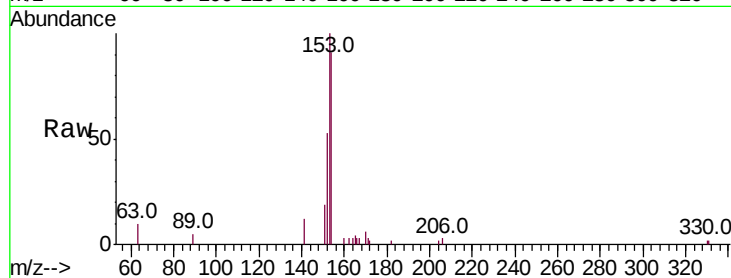
Tot Ion:154 Resp: 4189

Ion Ratio Lower Upper

154 100

153 113.6 89.5 134.3

152 65.7 44.8 67.2



#17

Fluorene

Concen: 0.080 ng

RT: 15.14 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

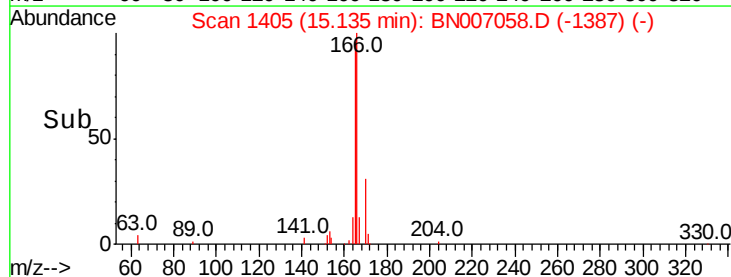
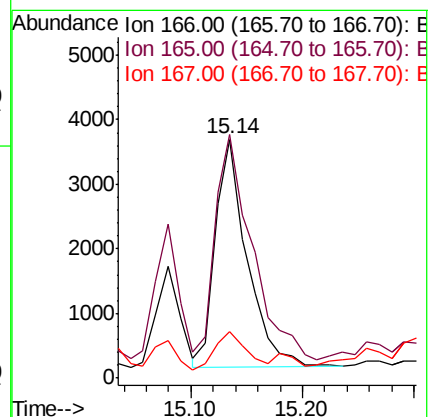
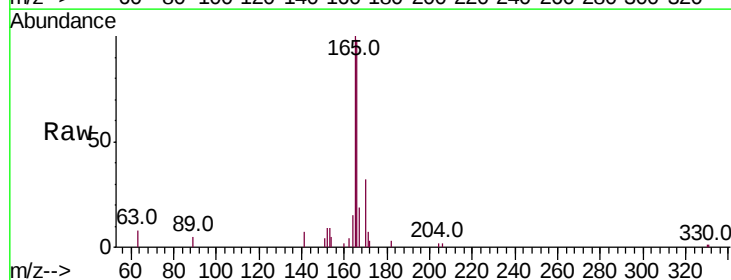
Tgt Ion:166 Resp: 6955

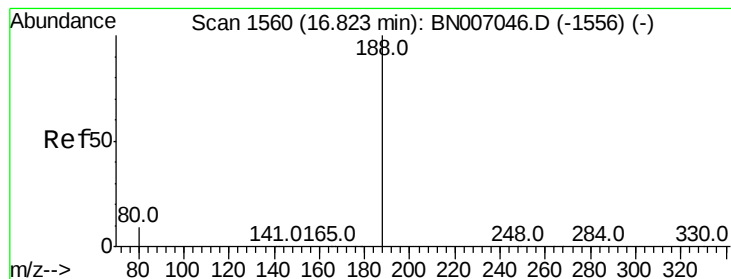
Ion Ratio Lower Upper

166 100

165 114.6 77.9 116.9

167 16.8 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: BN007058.D

Acq: 10 Aug 2019 21:10

Instrument :

BNA_N

ClientSampleId :

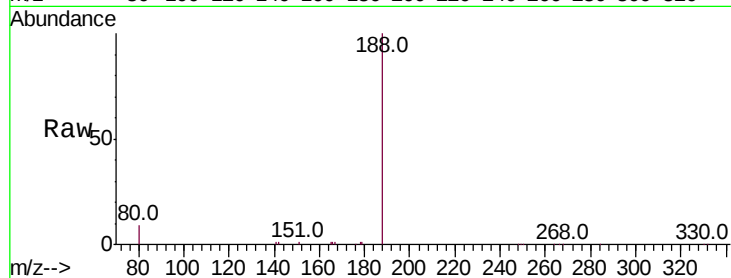
Tot Ion:188 Resp: 43537

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

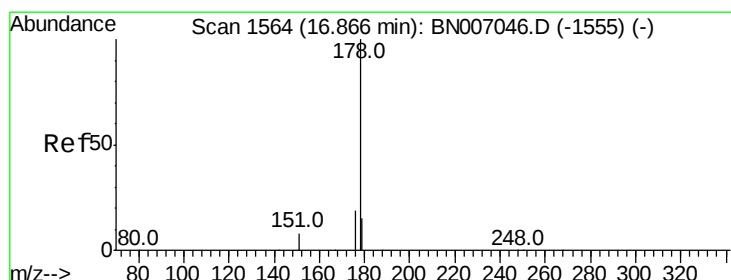
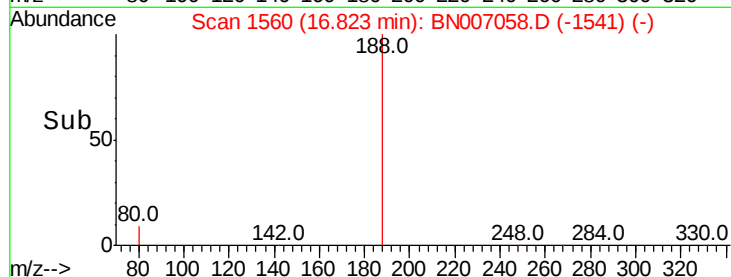
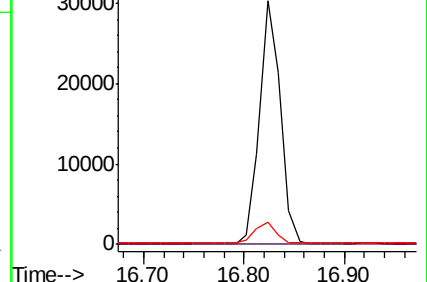
80 9.2 7.8 11.6



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: 1.079 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

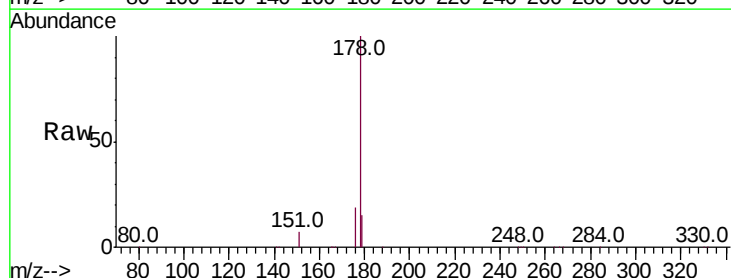
Tgt Ion:178 Resp: 140810

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

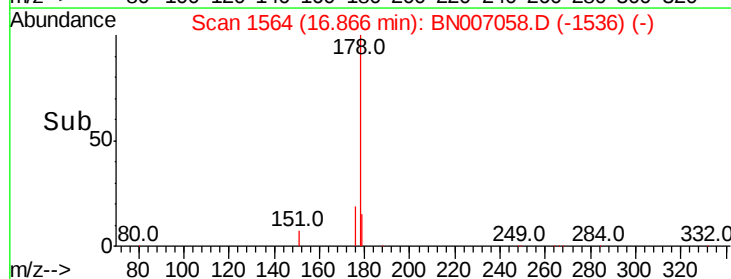
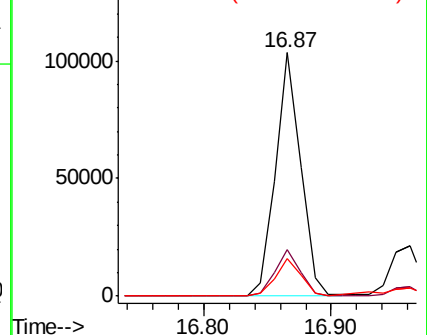
179 15.6 12.3 18.5

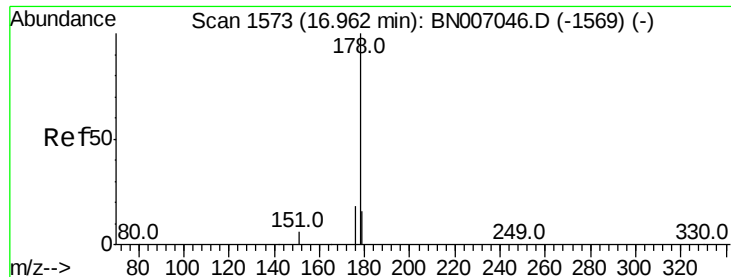


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 0.278 ng

RT: 16.96 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

Instrument :

BNA_N

ClientSampleId :

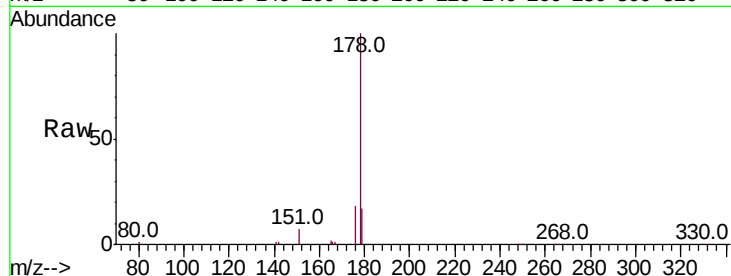
Tot Ion:178 Resp: 33119

Ion Ratio Lower Upper

178 100

176 18.2 14.6 21.8

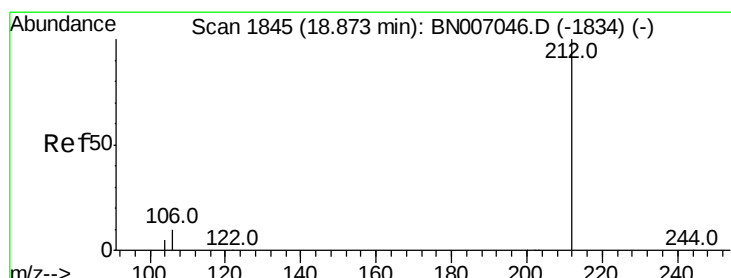
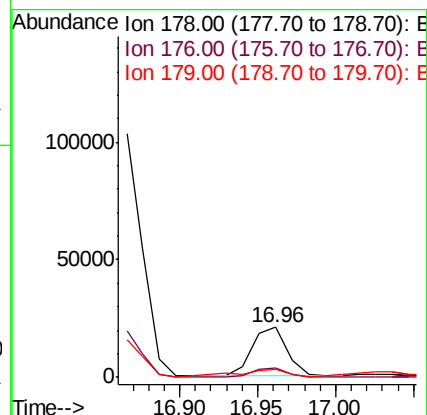
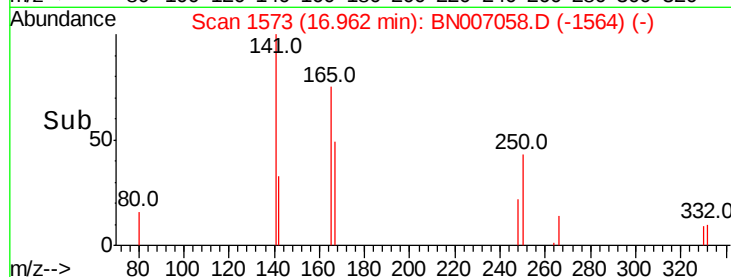
179 20.1 12.5 18.7#



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: 0.200 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

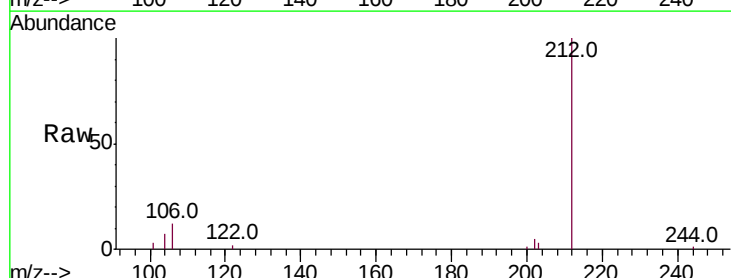
Tgt Ion:212 Resp: 30847

Ion Ratio Lower Upper

212 100

106 10.2 8.2 12.2

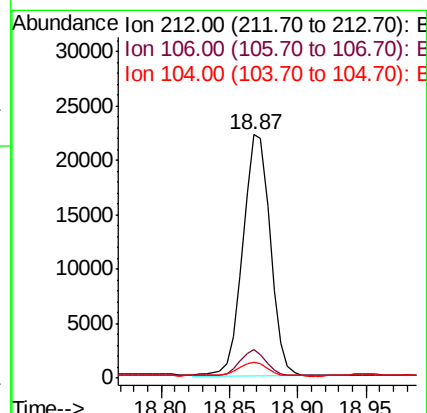
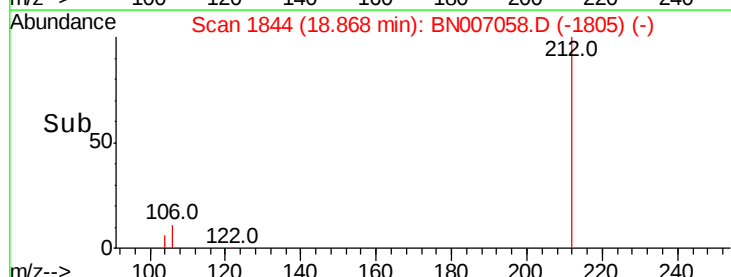
104 6.0 4.5 6.7

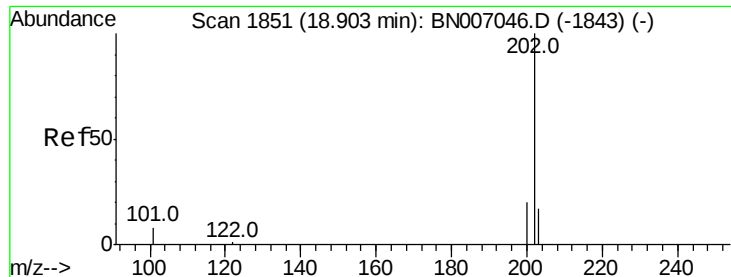


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 1.448 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

Instrument :

BNA_N

ClientSampleId :

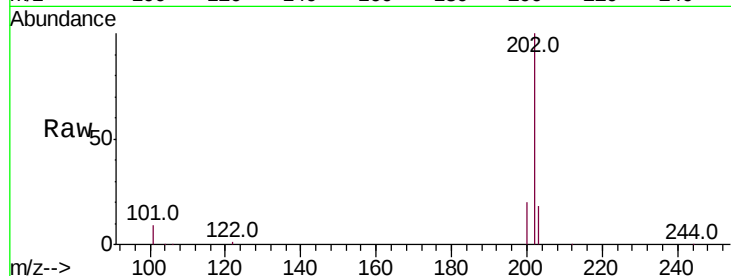
Tot Ion:202 Resp: 241694

Ion Ratio Lower Upper

202 100

101 8.7 7.0 10.4

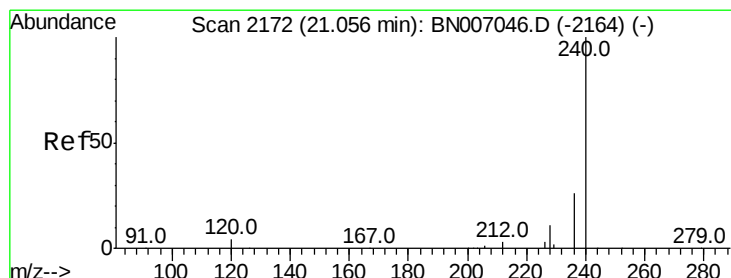
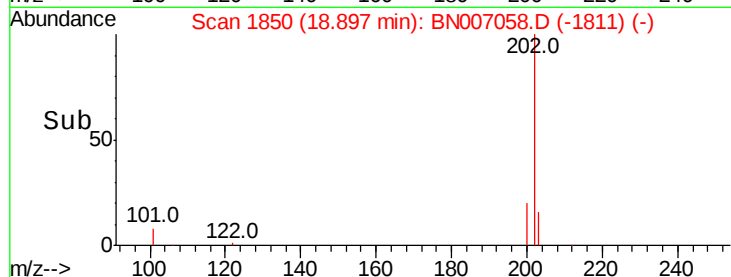
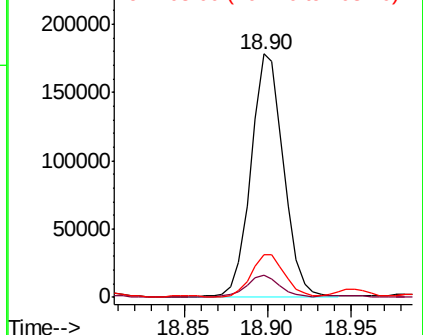
203 17.5 13.8 20.8



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: BN007058.D

Acq: 10 Aug 2019 21:10

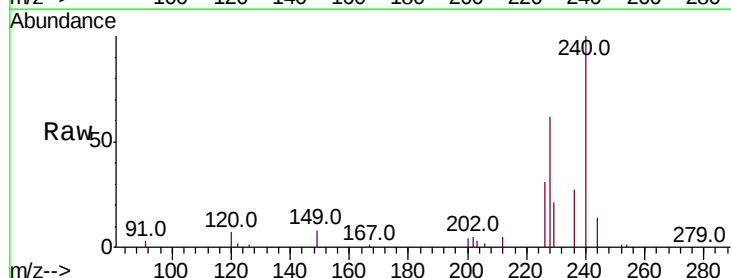
Tgt Ion:240 Resp: 45798

Ion Ratio Lower Upper

240 100

120 7.0 4.0 6.0#

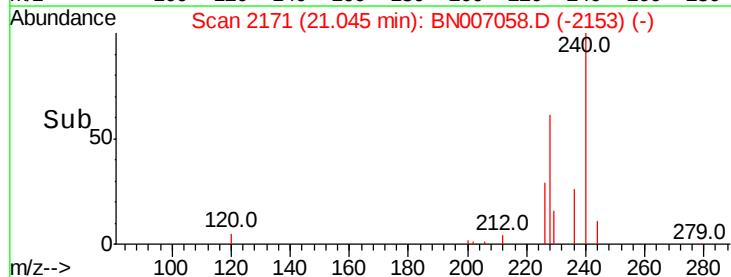
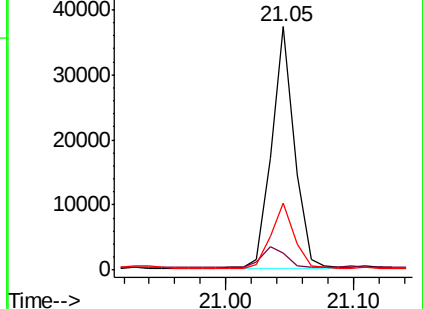
236 27.3 21.3 31.9

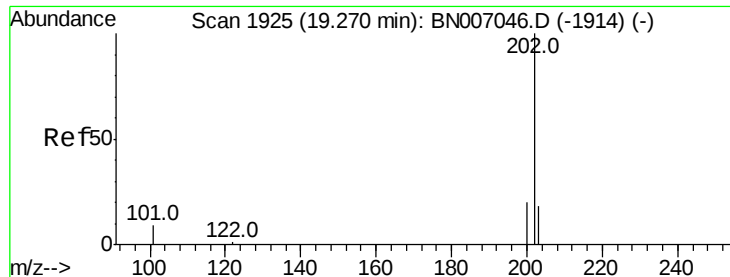


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

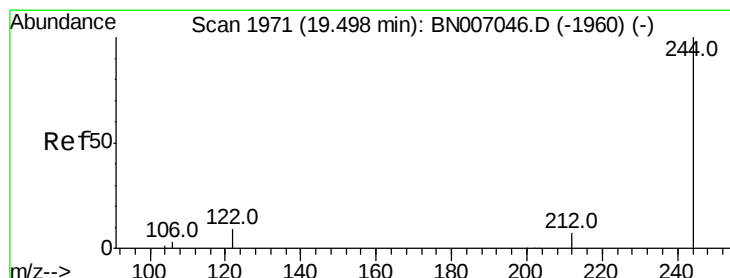
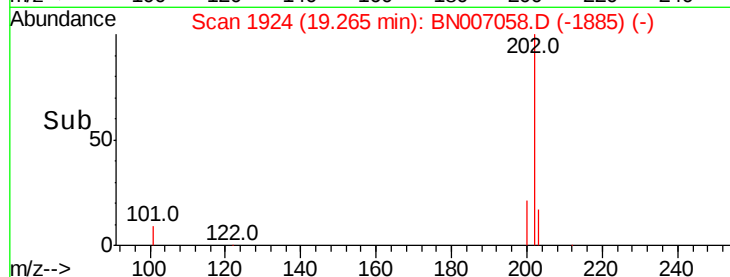
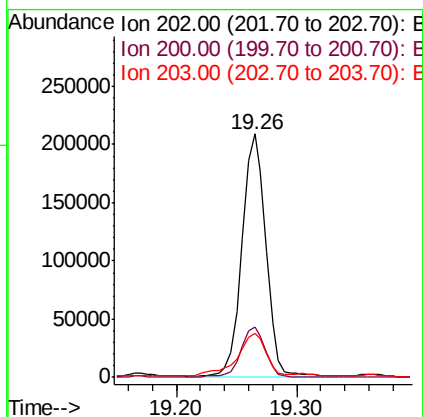
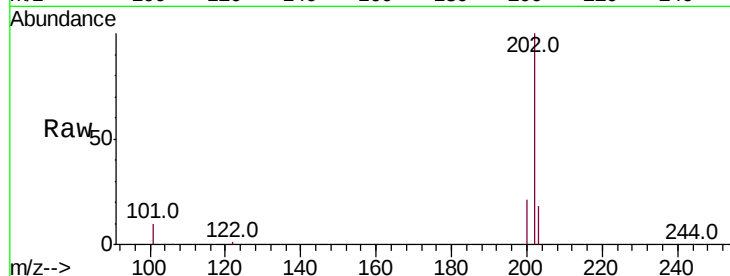




#27
Pvrene
Concen: 1.776 ng
RT: 19.26 min Scan# 1924
Delta R.T. -0.01 min
Lab File: BN007058.D
Acq: 10 Aug 2019 21:10

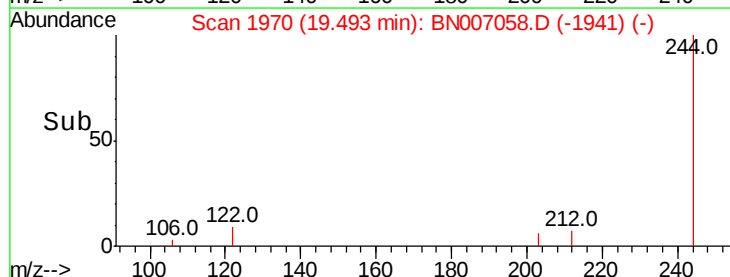
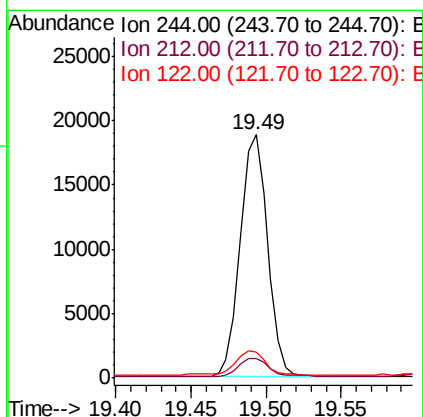
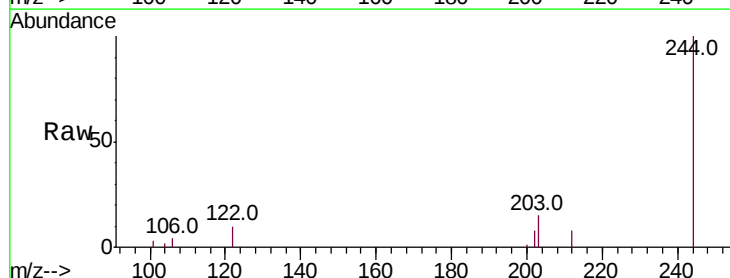
Instrument :
BNA_N
ClientSampled :

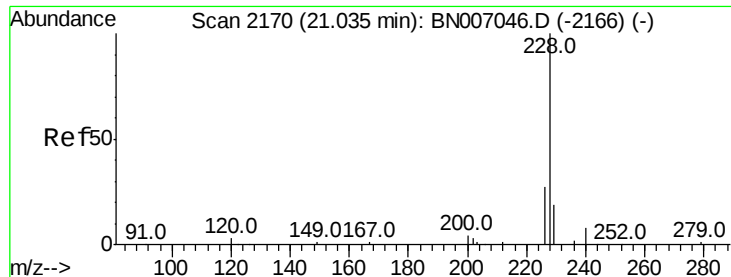
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.6	24.8
203	21.7	14.0	21.0



#28
Terphenyl-d14
Concen: 0.190 ng
RT: 19.49 min Scan# 1970
Delta R.T. -0.01 min
Lab File: BN007058.D
Acq: 10 Aug 2019 21:10

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.3	6.2	9.2
122	10.5	7.4	11.2





#29

Benzo(a)anthracene

Concen: 0.902 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

Instrument :

BNA_N

ClientSampled :

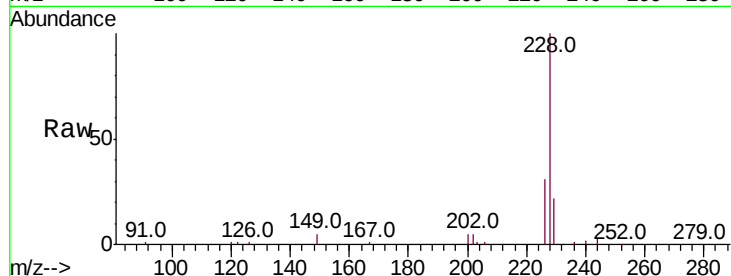
Tot Ion:228 Resp: 151001

Ion Ratio Lower Upper

228 100

226 31.4 21.8 32.6

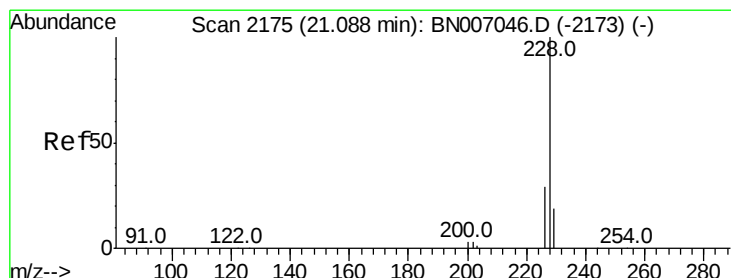
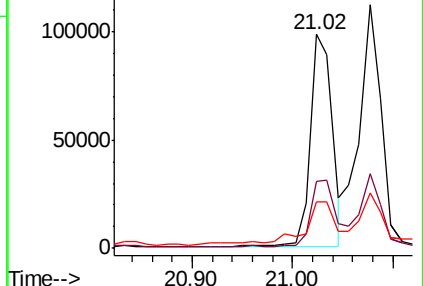
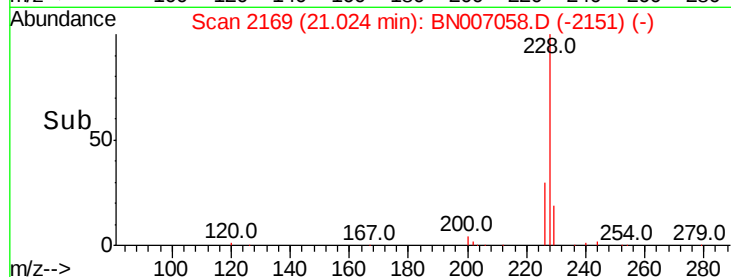
229 21.7 15.6 23.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#30

Chrysene

Concen: 0.936 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

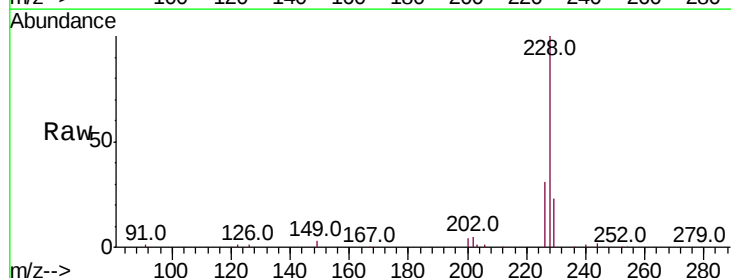
Tgt Ion:228 Resp: 152252

Ion Ratio Lower Upper

228 100

226 30.6 23.8 35.6

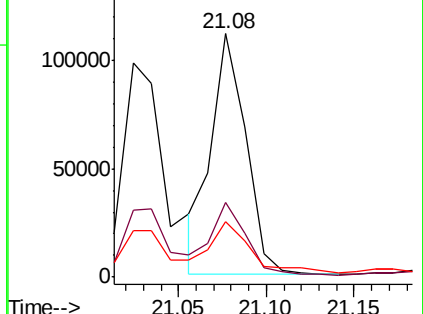
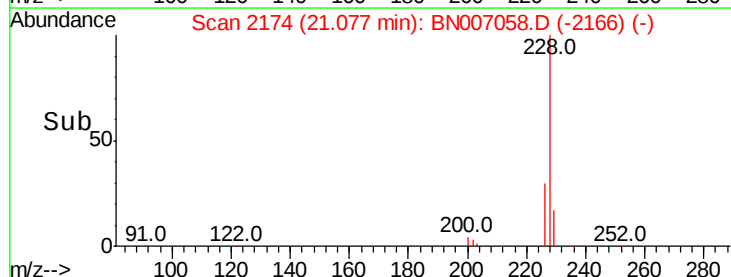
229 22.5 15.7 23.5

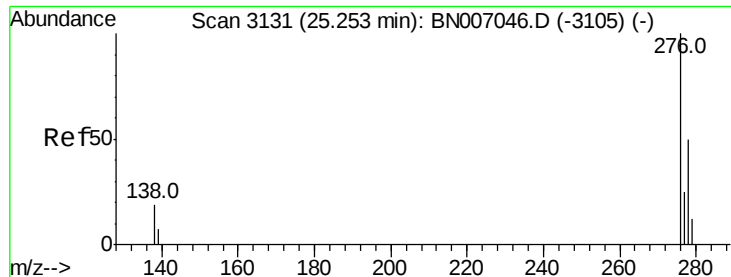


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.483 ng

RT: 25.24 min Scan# 3127

Delta R.T. -0.01 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

Instrument :

BNA_N

ClientSampleId :

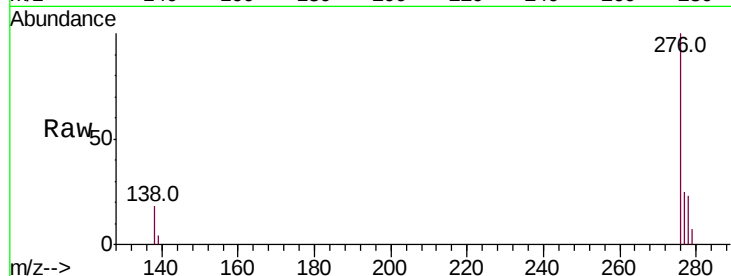
Tot Ion:276 Resp: 86689

Ion Ratio Lower Upper

276 100

138 17.9 16.0 24.0

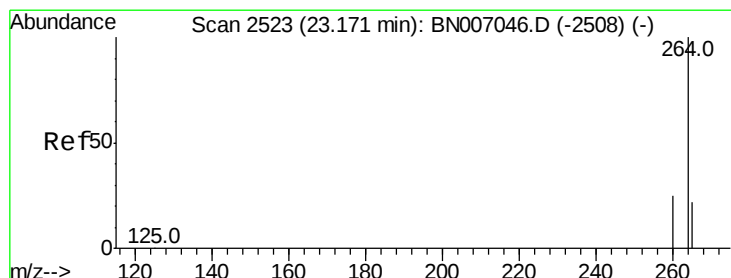
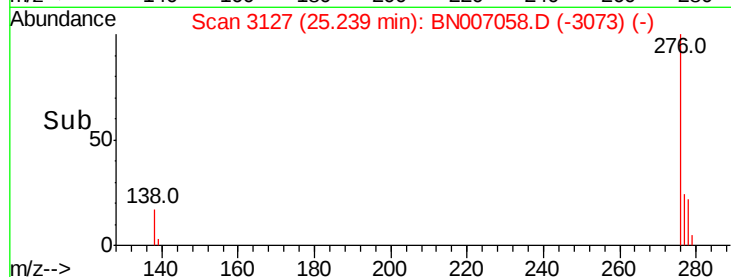
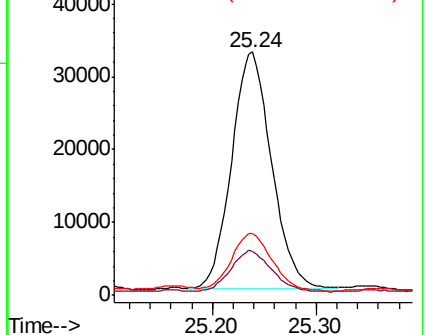
277 24.7 19.9 29.9



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: BN007058.D

Acq: 10 Aug 2019 21:10

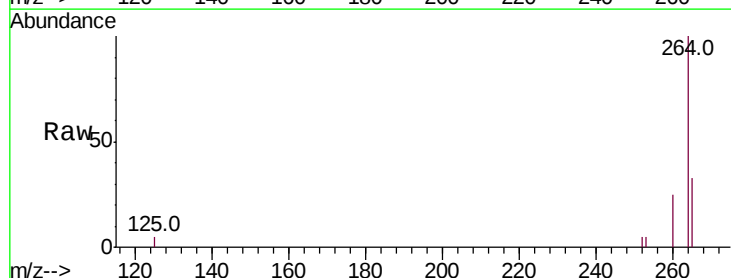
Tgt Ion:264 Resp: 50399

Ion Ratio Lower Upper

264 100

260 25.1 19.8 29.8

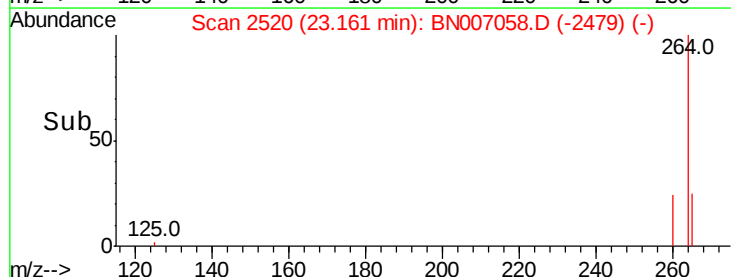
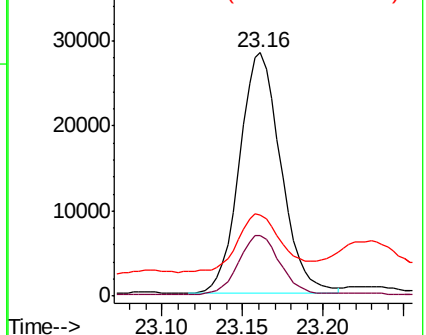
265 33.3 26.2 39.4

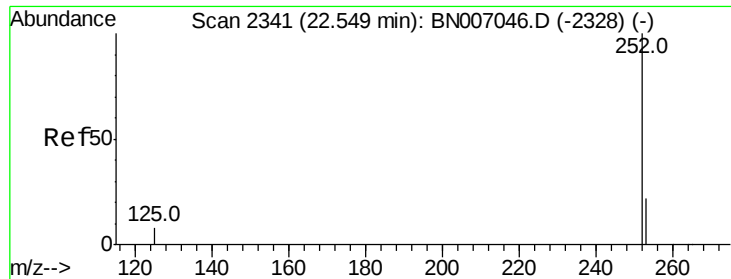


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 1.371 ng

RT: 22.54 min Scan# 2339

Delta R.T. -0.01 min

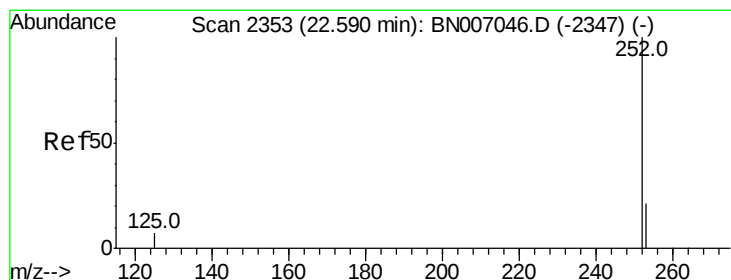
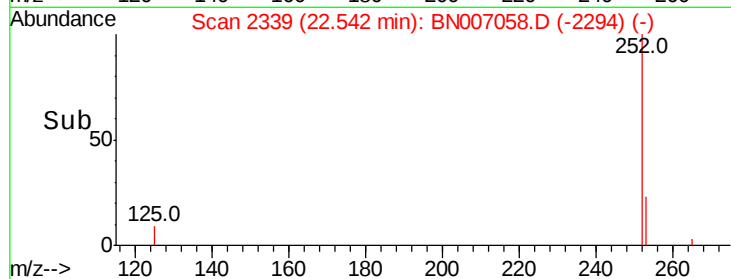
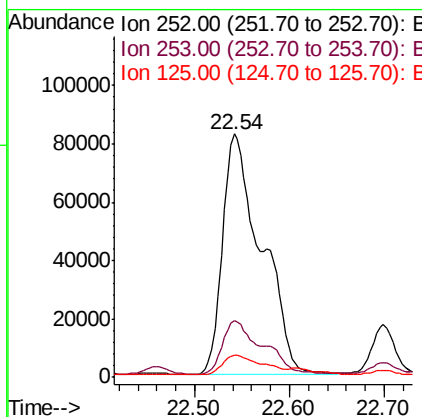
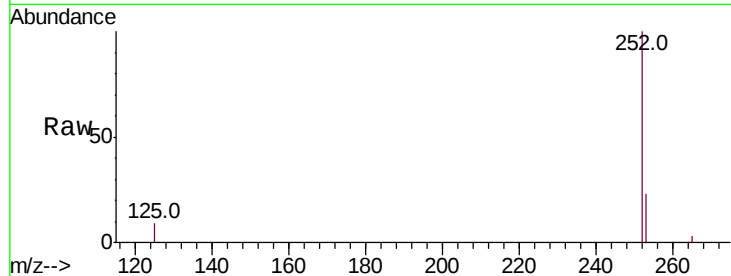
Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

Instrument :
BNA_N
ClientSampleId :

Tot Ion:252 Resp: 236869

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: 1.388 ng

RT: 22.54 min Scan# 2339

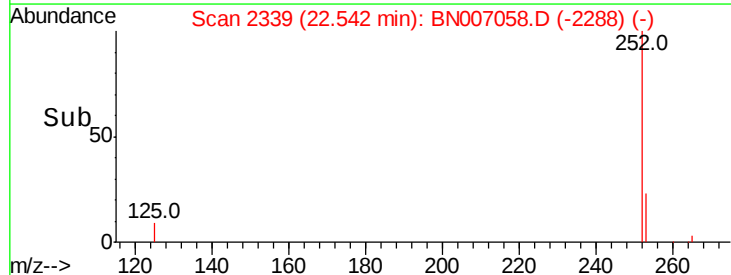
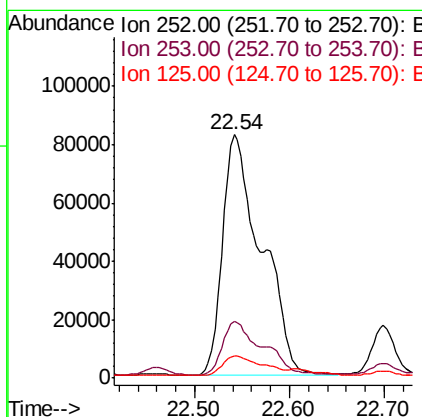
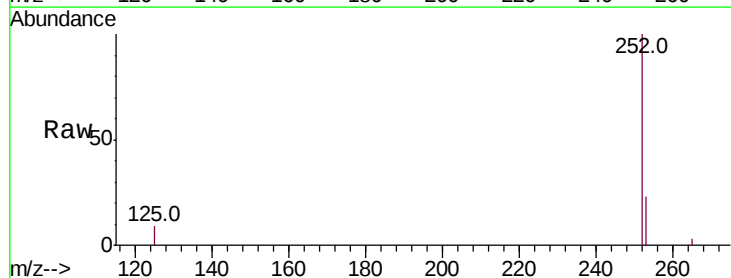
Delta R.T. -0.05 min

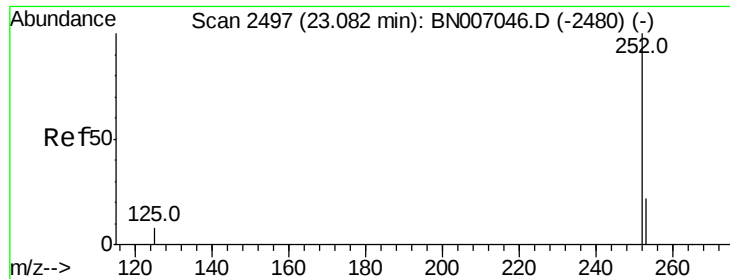
Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

Tgt Ion:252 Resp: 236869

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: 0.877 ng

RT: 23.07 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

Instrument :

BNA_N

ClientSampleId :

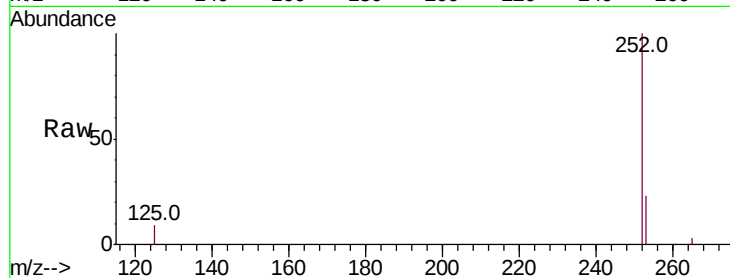
Tot Ion:252 Resp: 137440

Ion Ratio Lower Upper

252 100

253 23.3 18.5 27.7

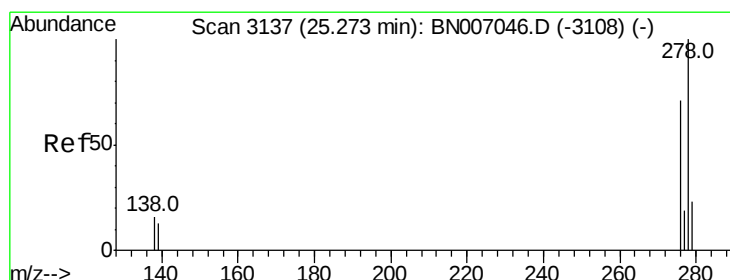
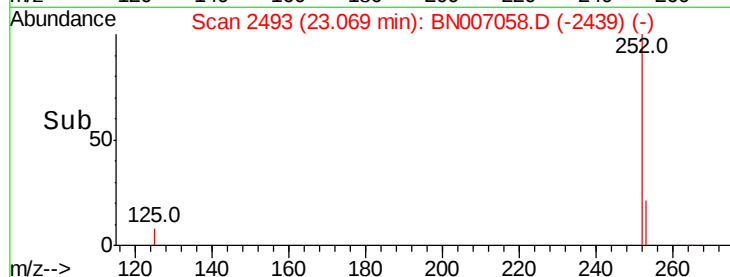
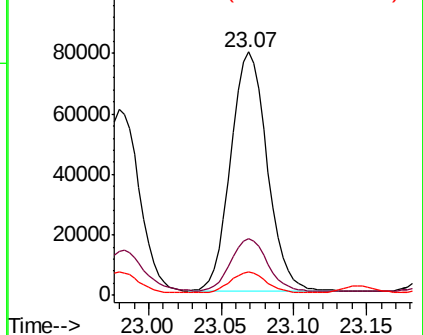
125 9.5 8.2 12.4



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: 0.161 ng

RT: 25.25 min Scan# 3129

Delta R.T. -0.03 min

Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

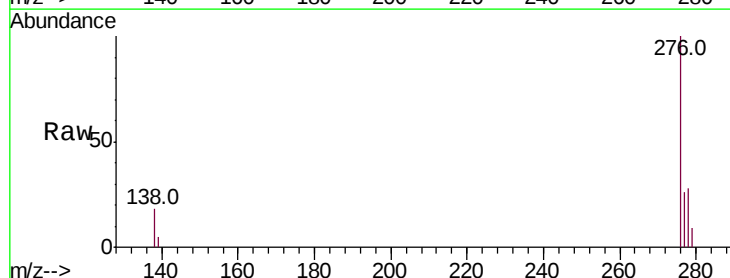
Tgt Ion:278 Resp: 25141

Ion Ratio Lower Upper

278 100

139 18.1 11.3 16.9#

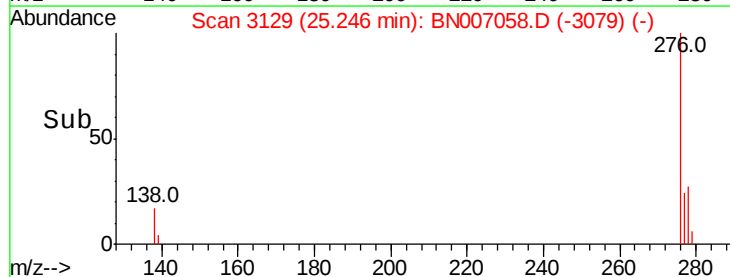
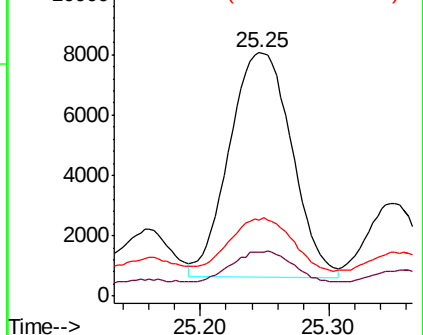
279 31.3 19.3 28.9#

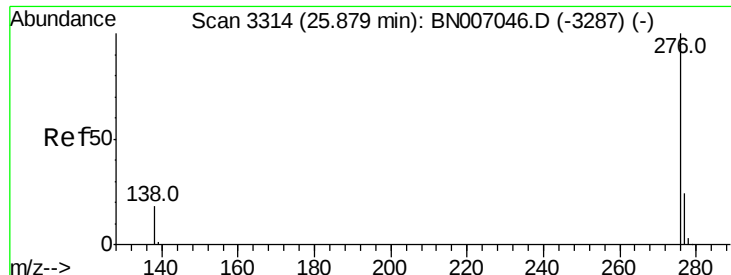


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.611 ng

RT: 25.87 min Scan# 3310

Delta R.T. -0.01 min

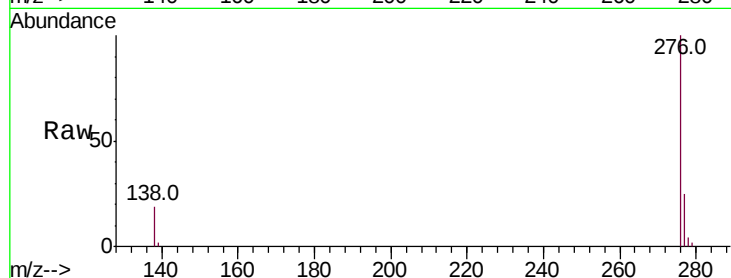
Lab File: BN007058.D

Acq: 10 Aug 2019 21:10

Instrument :

BNA_N

ClientSampleId :



Tot Ion: 276 Resp: 98229

Ion Ratio Lower Upper

276 100

277 25.1 19.8 29.8

138 18.5 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

