

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN081319\
 Data File : BN007131.D
 Acq On : 13 Aug 2019 14:43
 Operator : HP/JU
 Sample : K4173-06
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-016-B054-073119

Quant Time: Aug 14 03:33:17 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	10026	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	38912	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	22749	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	50968	0.40	ng	0.00
26) Chrysene-d12	21.05	240	48245	0.40	ng	-0.01
32) Perylene-d12	23.16	264	57688	0.40	ng	0.00

System Monitoring Compounds

3) 2-Fluorophenol	5.06	112	7709	0.32	ng	0.00
4) Phenol-d6	6.61	99	10353	0.35	ng	0.00
7) Nitrobenzene-d5	8.56	82	8175	0.26	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	18662	0.26	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	3091	0.25	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	4468	0.14	ng	0.00
24) Fluoranthene-d10	18.87	212	46321	0.26	ng	0.00
28) Terphenyl-d14	19.49	244	34242	0.26	ng	0.00

Target Compounds

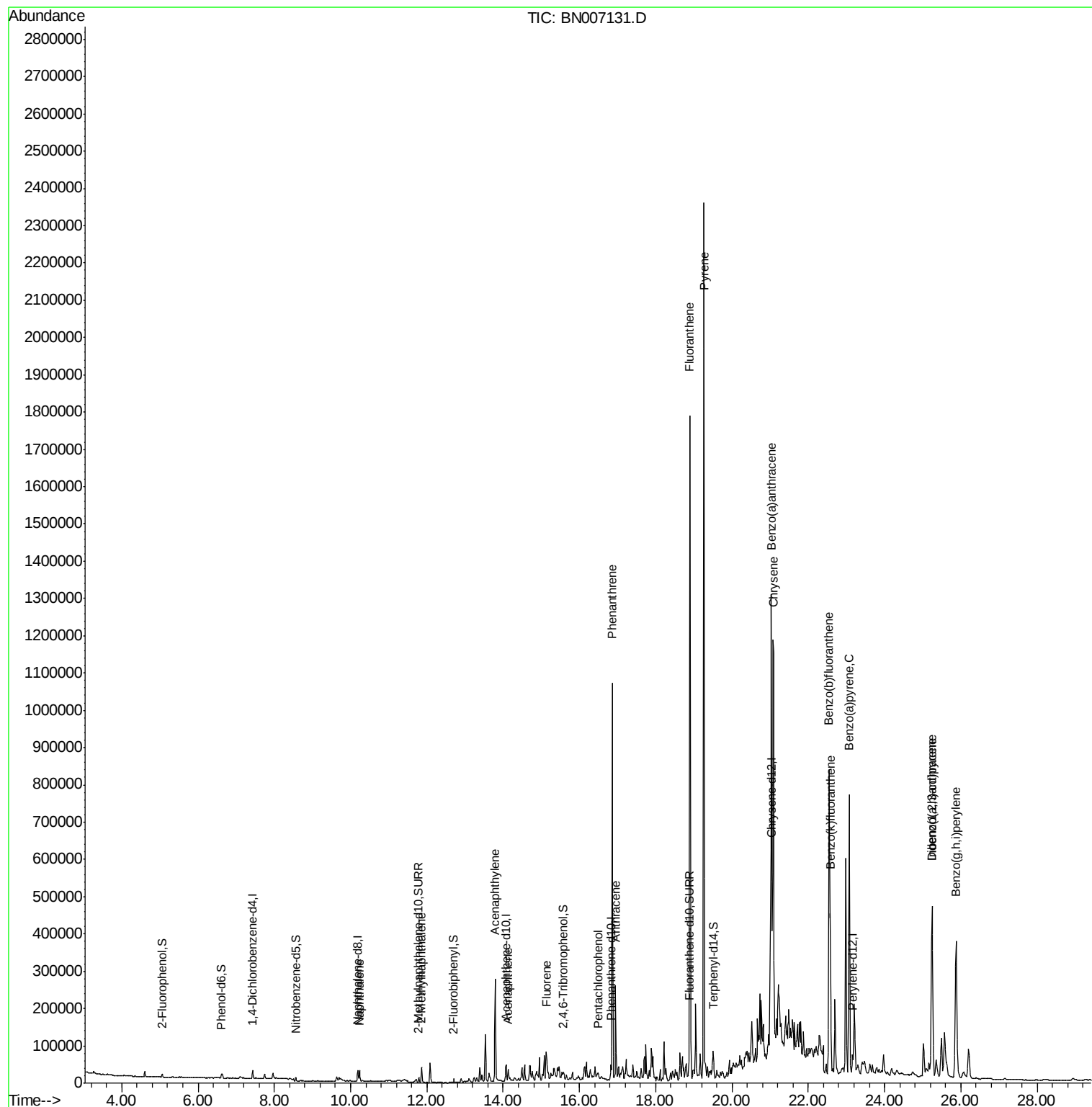
						Qvalue
8) Naphthalene	10.24	128	38894	0.356	ng	99
11) 2-Methylnaphthalene	11.87	142	30079	0.389	ng	99
15) Acenaphthylene	13.79	152	332180	2.794	ng	99
16) Acenaphthene	14.13	154	18516	0.243	ng	98
17) Fluorene	15.14	166	64564	0.567	ng	# 79
21) Pentachlorophenol	16.48	266	309	0.027	ng	92
22) Phenanthrene	16.87	178	1059939	6.939	ng	100
23) Anthracene	16.96	178	294998	2.114	ng	100
25) Fluoranthene	18.90	202	1710143	8.752	ng	99
27) Pyrene	19.26	202	2092984	12.371	ng	97
29) Benzo(a)anthracene	21.03	228	1057268m	5.992	ng	
30) Chrysene	21.09	228	1119617	6.531	ng	96
31) Indeno(1,2,3-cd)pyrene	25.25	276	696645	3.687	ng	98
33) Benzo(b)fluoranthene	22.55	252	1292721	6.535	ng	99
34) Benzo(k)fluoranthene	22.58	252	420041m	2.150	ng	
35) Benzo(a)pyrene	23.08	252	990595	5.524	ng	99
36) Dibenzo(a,h)anthracene	25.25	278	186482	1.042	ng	# 89
37) Benzo(g,h,i)perylene	25.88	276	744114	4.043	ng	99

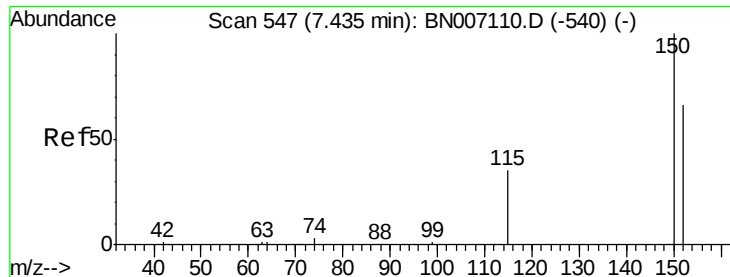
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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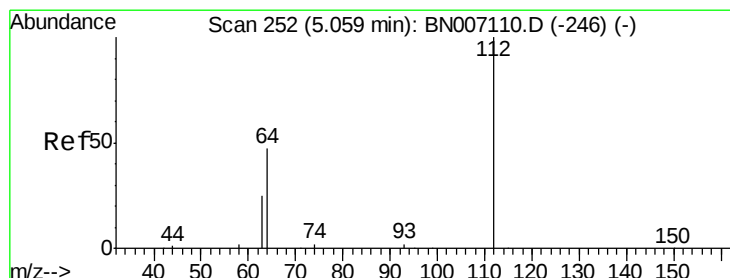
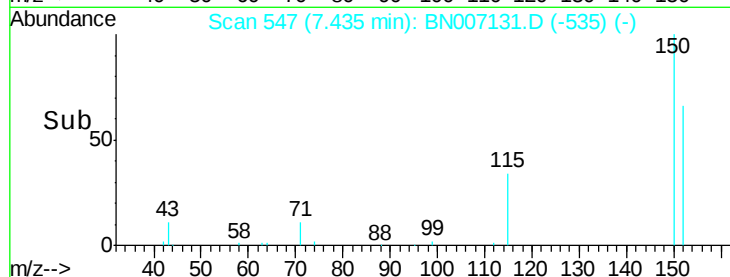
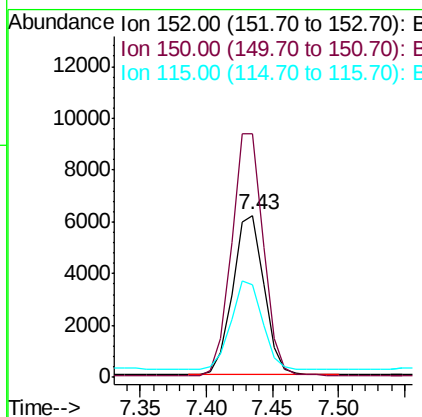
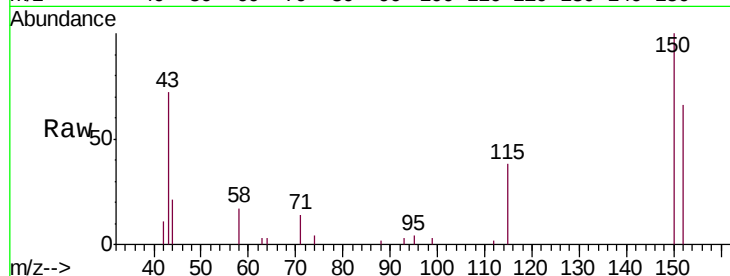


#1

1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.43 min Scan# 547
 Delta R.T. -0.00 min
 Lab File: BN007131.D
 Acq: 13 Aug 2019 14:43

Instrument :
 BNA_N
 ClientSampleId :
 PST-016-B054-073119

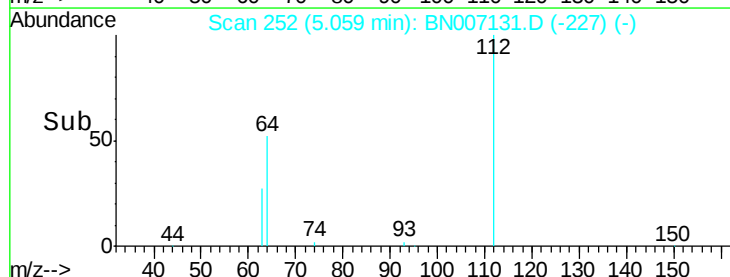
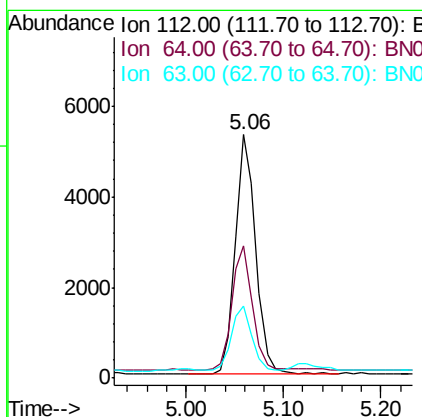
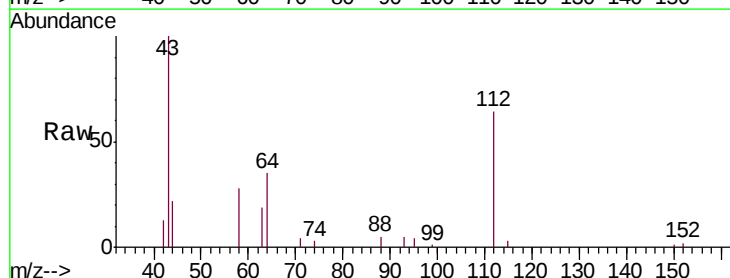
Tgt Ion:152 Resp: 10026
 Ion Ratio Lower Upper
 152 100
 150 150.5 121.7 182.5
 115 57.0 46.2 69.4

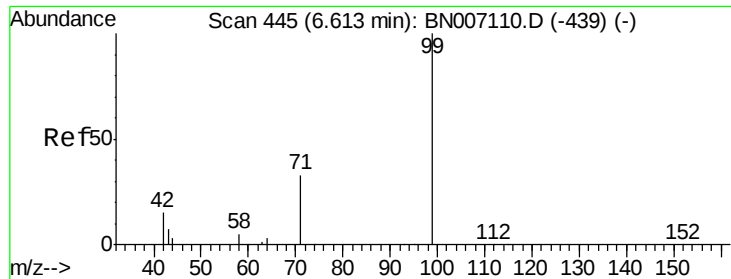


#3

2-Fluorophenol
 Concen: 0.320 ng
 RT: 5.06 min Scan# 252
 Delta R.T. -0.00 min
 Lab File: BN007131.D
 Acq: 13 Aug 2019 14:43

Tgt Ion:112 Resp: 7709
 Ion Ratio Lower Upper
 112 100
 64 51.8 42.6 63.8
 63 26.9 22.2 33.2





#4

Phenol-d6

Concen: 0.347 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

Instrument :

BNA_N

ClientSampleId :

PST-016-B054-073119

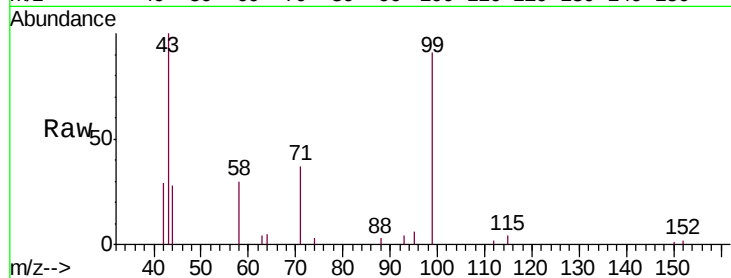
Tgt Ion: 99 Resp: 10353

Ion Ratio Lower Upper

99 100

42 24.2 15.8 23.6#

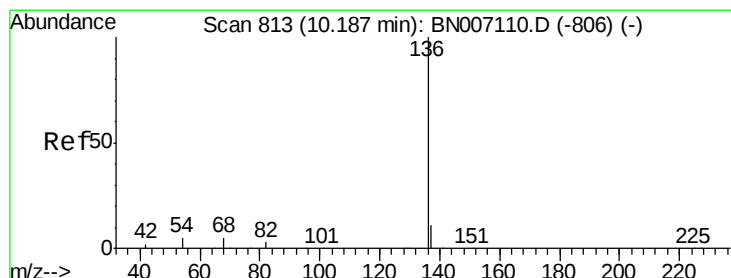
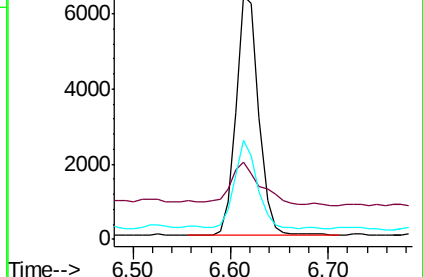
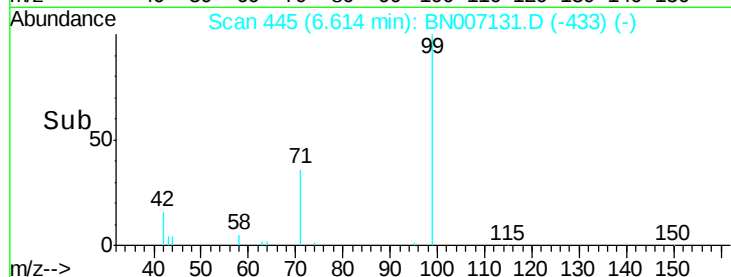
71 36.3 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007131.D (-433) (-)

Ion 42.00 (41.70 to 42.70): BN007131.D (-433) (-)

Ion 71.00 (70.70 to 71.70): BN007131.D (-433) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

Tgt Ion: 136 Resp: 38912

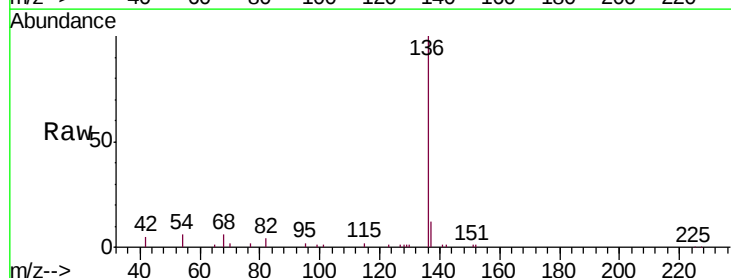
Ion Ratio Lower Upper

136 100

137 11.6 9.4 14.0

54 6.5 6.6 9.8#

68 5.9 6.0 9.0#

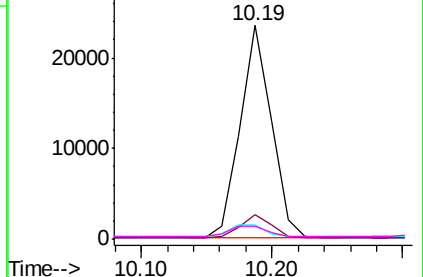
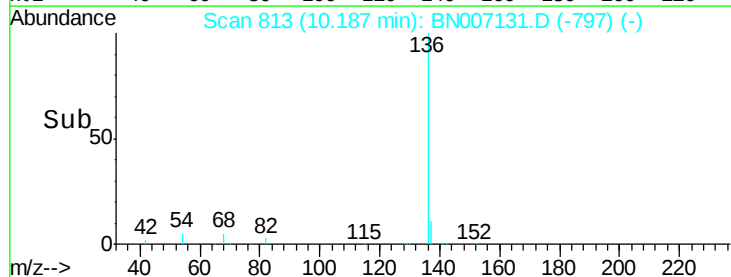


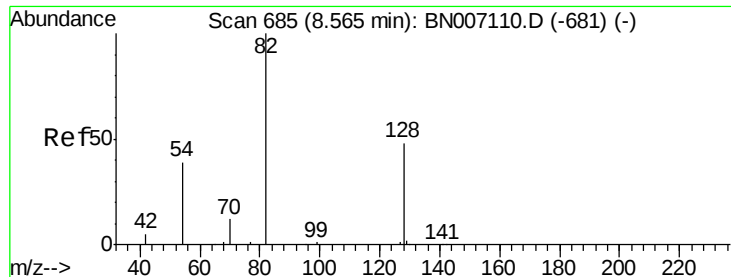
Abundance Ion 136.00 (135.70 to 136.70): BN007131.D (-797) (-)

Ion 137.00 (136.70 to 137.70): BN007131.D (-797) (-)

Ion 54.00 (53.70 to 54.70): BN007131.D (-797) (-)

Ion 68.00 (67.70 to 68.70): BN007131.D (-797) (-)





#7

Nitrobenzene-d5

Concen: 0.261 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

Instrument :

BNA_N

ClientSampleId :

PST-016-B054-073119

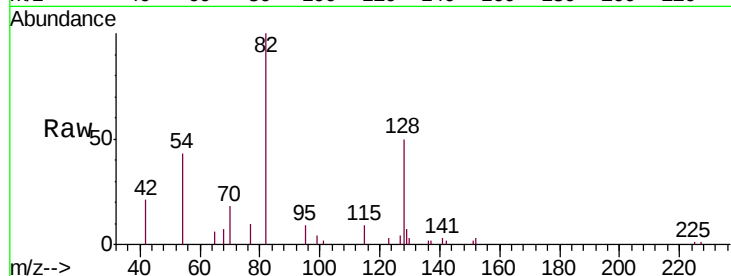
Tgt Ion: 82 Resp: 8175

Ion Ratio Lower Upper

82 100

128 50.2 34.6 51.8

54 42.6 36.2 54.4

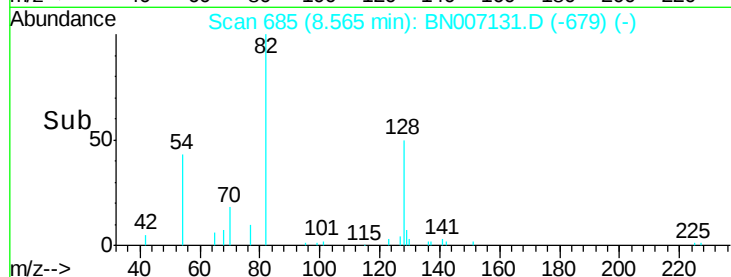


Abundance Ion 82.00 (81.70 to 82.70): BN007131.D (-679) (-)

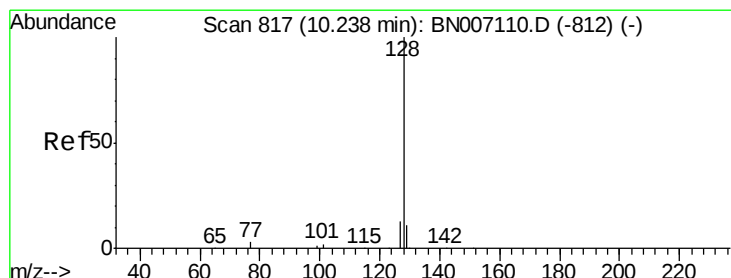
Ion 128.00 (127.70 to 128.70): BN007131.D (-679) (-)

Ion 54.00 (53.70 to 54.70): BN007131.D (-679) (-)

Time-->



Time-->



#8

Naphthalene

Concen: 0.356 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

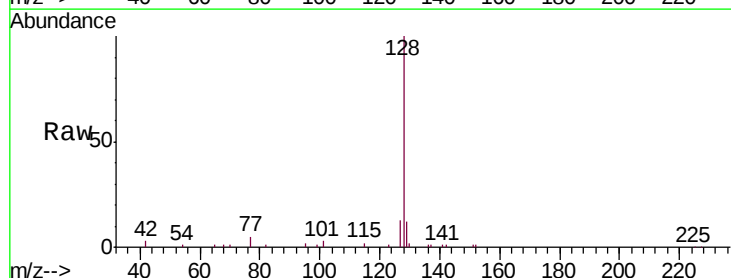
Tgt Ion: 128 Resp: 38894

Ion Ratio Lower Upper

128 100

129 11.7 9.4 14.2

127 13.4 11.0 16.6

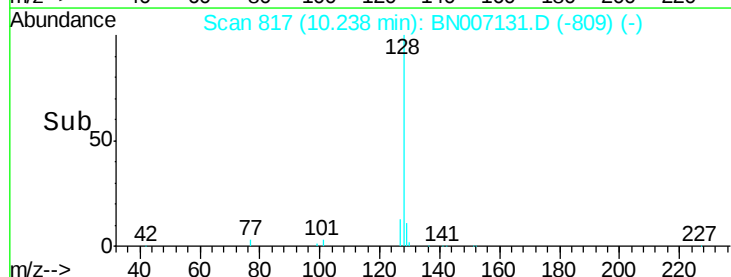


Abundance Ion 128.00 (127.70 to 128.70): BN007131.D (-809) (-)

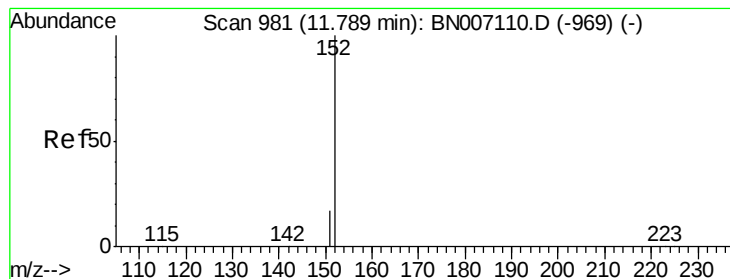
Ion 129.00 (128.70 to 129.70): BN007131.D (-809) (-)

Ion 127.00 (126.70 to 127.70): BN007131.D (-809) (-)

Time-->



Time-->



#10

2-Methylnaphthalene-d10

Concen: 0.257 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

Instrument :

BNA_N

ClientSampleId :

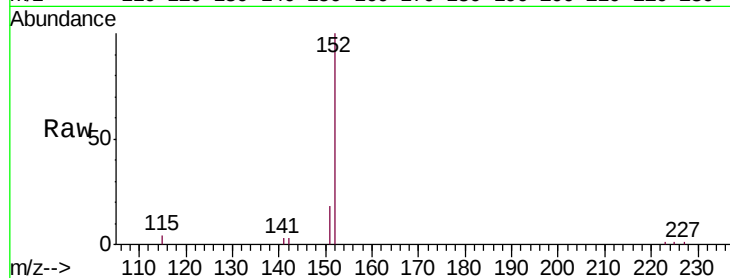
PST-016-B054-073119

Tgt Ion:152 Resp: 18662

Ion Ratio Lower Upper

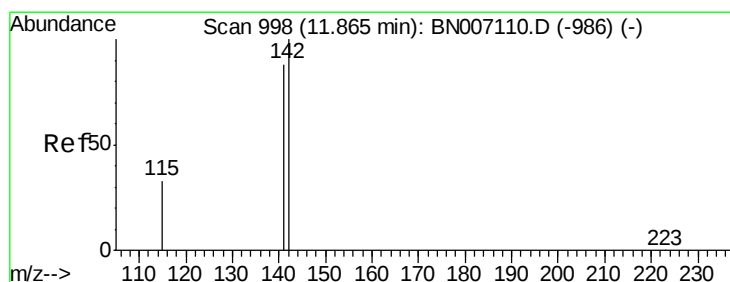
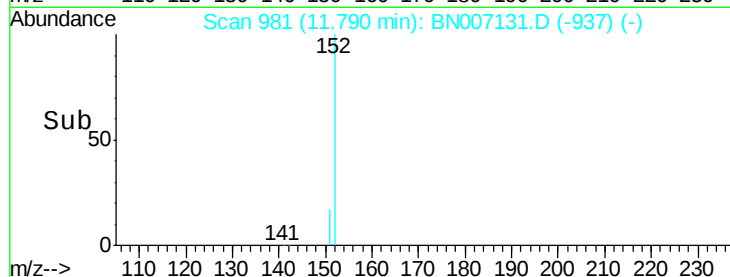
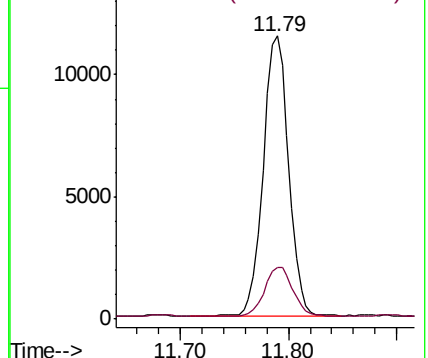
152 100

151 19.1 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#11

2-Methylnaphthalene

Concen: 0.389 ng

RT: 11.87 min Scan# 998

Delta R.T. -0.00 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

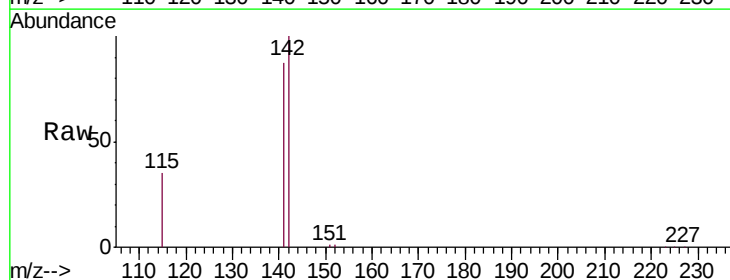
Tgt Ion:142 Resp: 30079

Ion Ratio Lower Upper

142 100

141 87.2 69.0 103.6

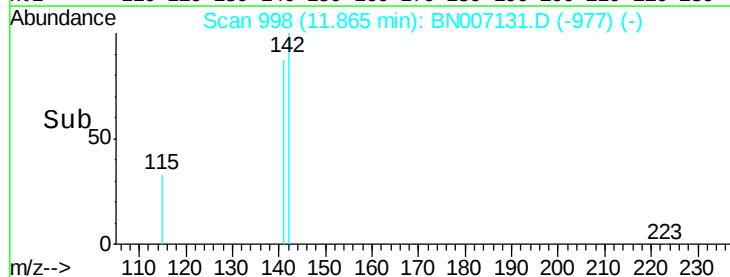
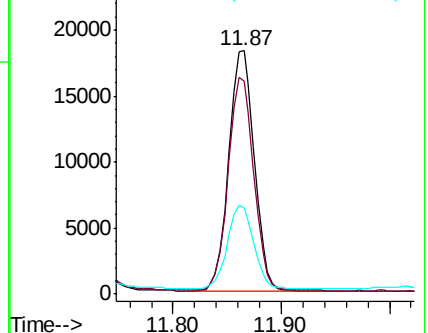
115 35.3 27.1 40.7

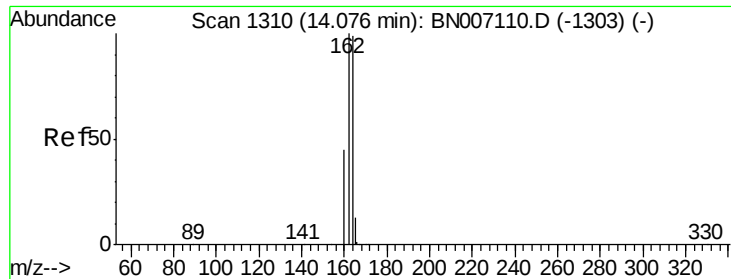


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

Instrument :

BNA_N

ClientSampleId :

PST-016-B054-073119

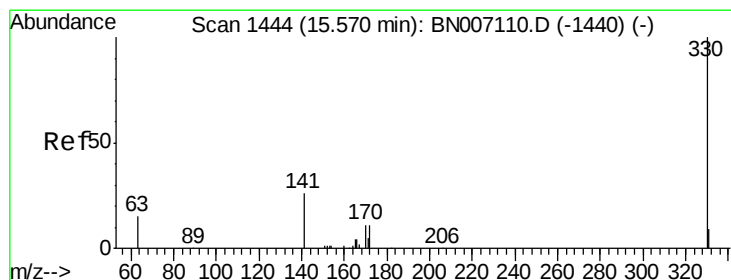
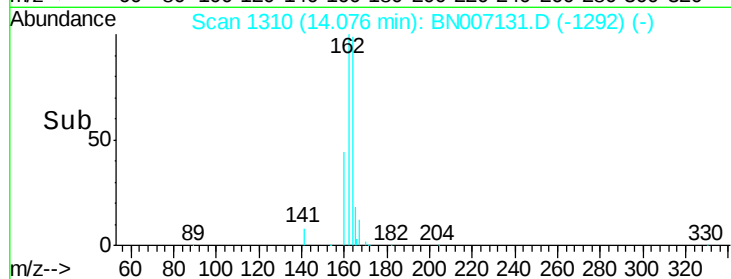
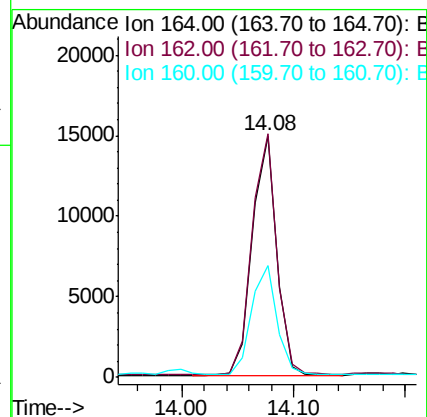
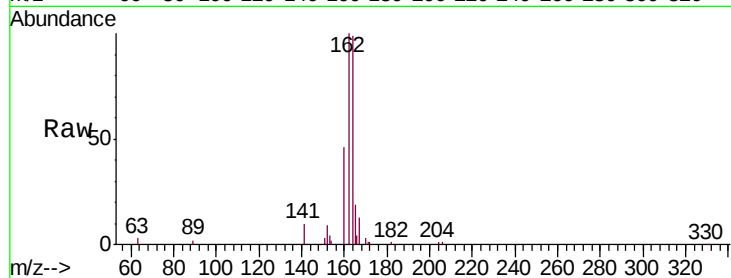
Tgt Ion:164 Resp: 22749

Ion Ratio Lower Upper

164 100

162 100.9 82.2 123.4

160 46.5 38.3 57.5



#13

2,4,6-Tribromophenol

Concen: 0.252 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

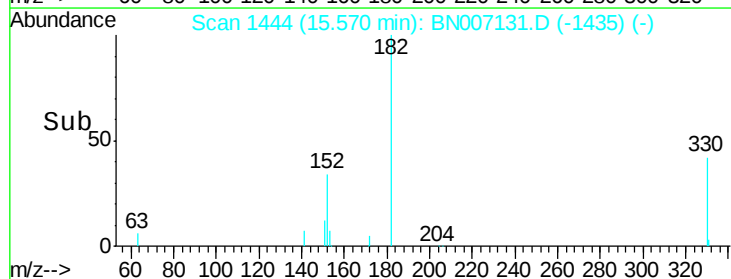
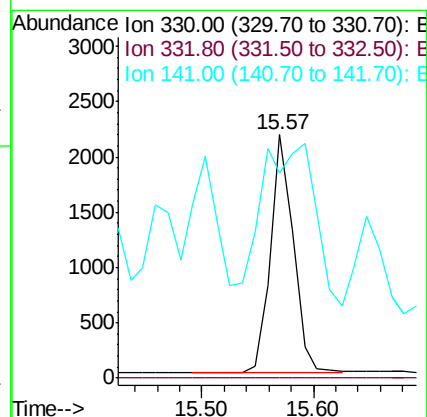
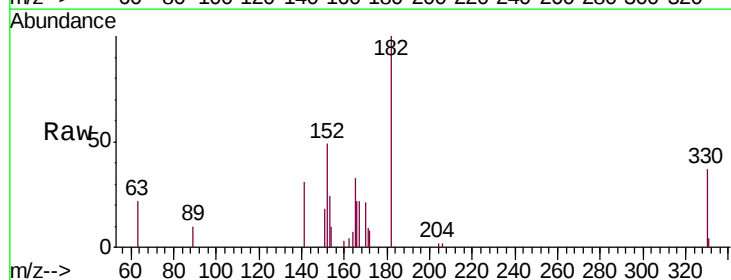
Tgt Ion:330 Resp: 3091

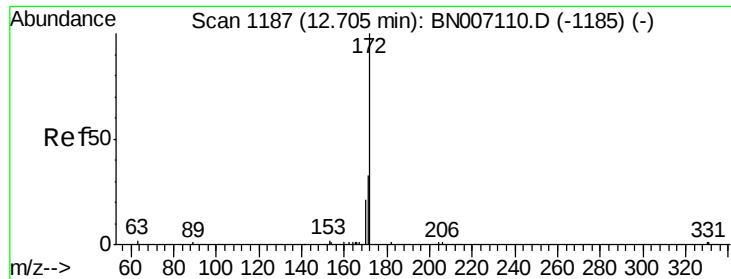
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 0.0 33.6 50.4#

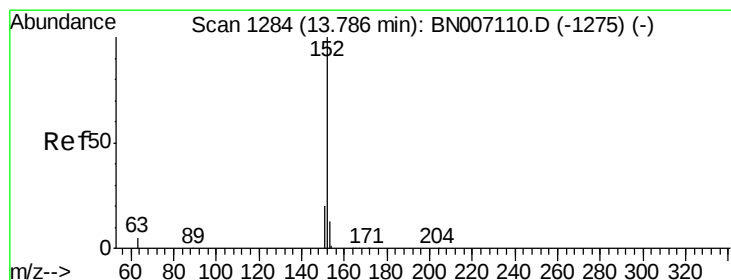
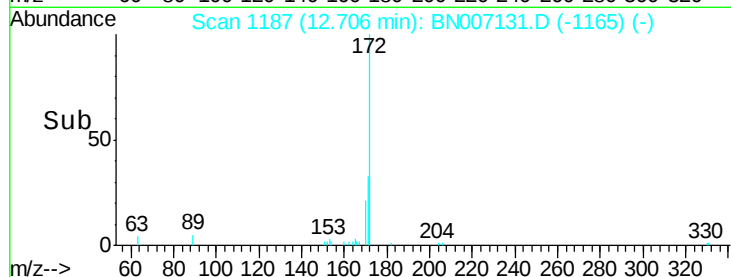
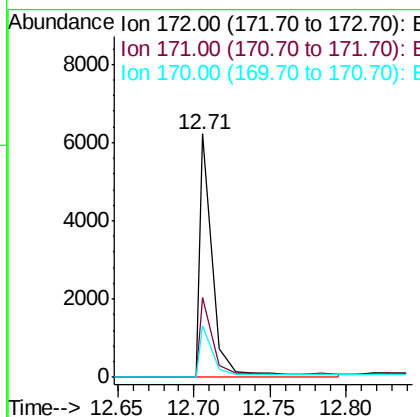
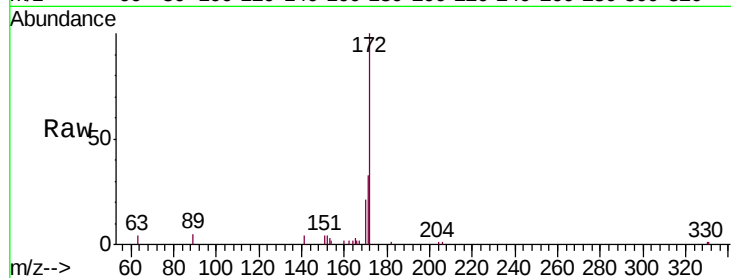




#14
2-Fluorobiphenyl
Concen: 0.135 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007131.D
Acq: 13 Aug 2019 14:43

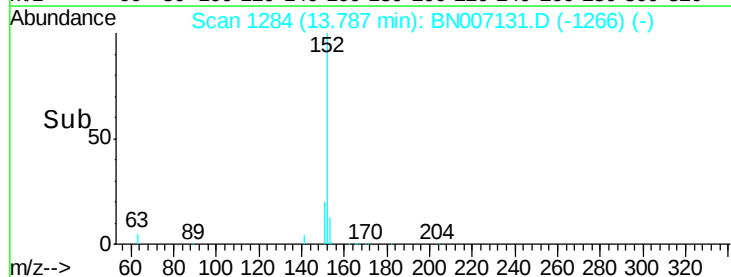
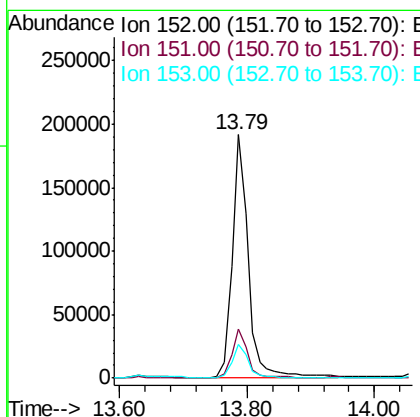
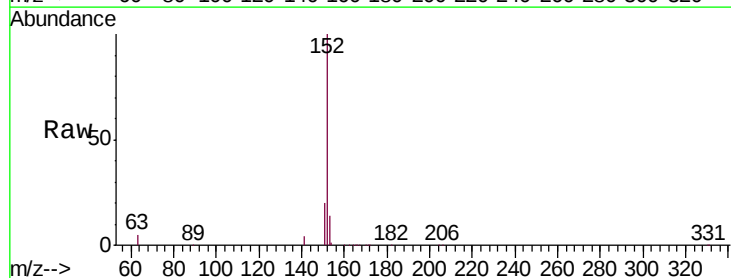
Instrument :
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PST-016-B054-073119

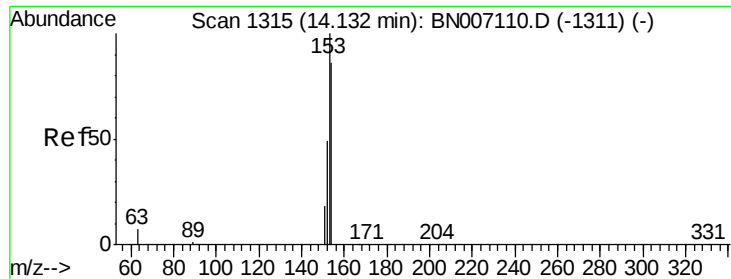
Tgt Ion:172 Resp: 4468
Ion Ratio Lower Upper
172 100
171 32.6 26.3 39.5
170 21.3 17.0 25.4



#15
Acenaphthylene
Concen: 2.794 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007131.D
Acq: 13 Aug 2019 14:43

Tgt Ion:152 Resp: 332180
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.6
153 13.6 10.4 15.6





#16

Acenaphthene

Concen: 0.243 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

Instrument :

BNA_N

ClientSampleId :

PST-016-B054-073119

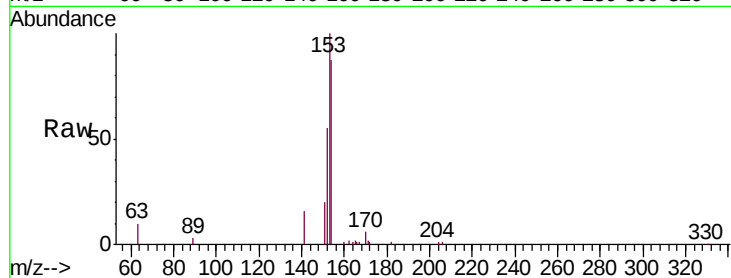
Tgt Ion:154 Resp: 18516

Ion Ratio Lower Upper

154 100

153 115.2 89.5 134.3

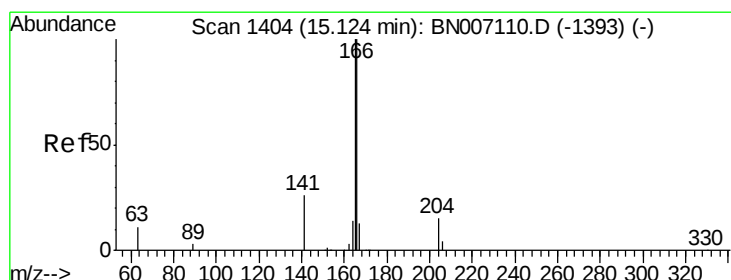
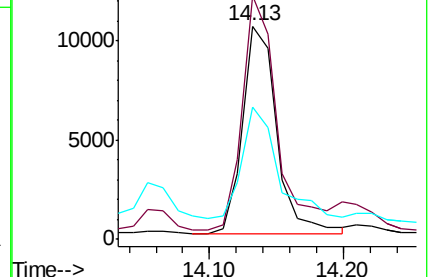
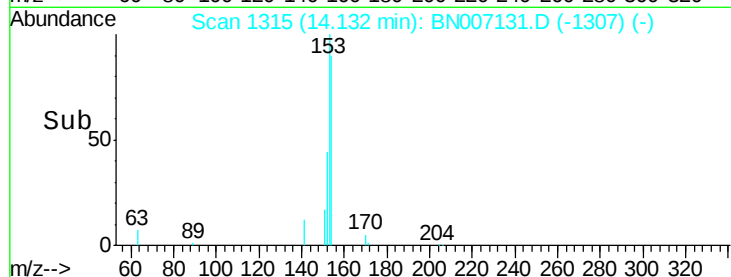
152 55.2 44.8 67.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#17

Fluorene

Concen: 0.567 ng

RT: 15.14 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

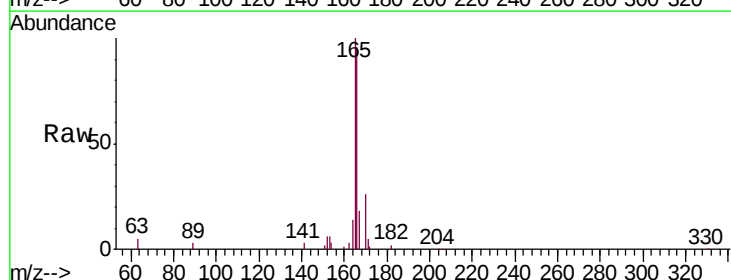
Tgt Ion:166 Resp: 64564

Ion Ratio Lower Upper

166 100

165 119.3 77.9 116.9#

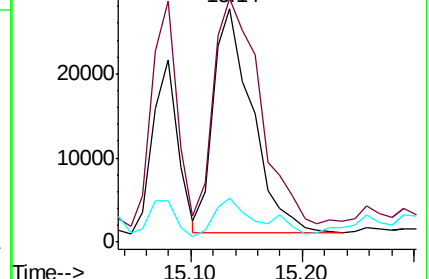
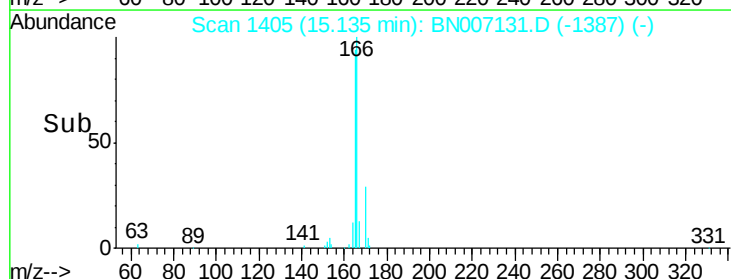
167 19.8 10.9 16.3#

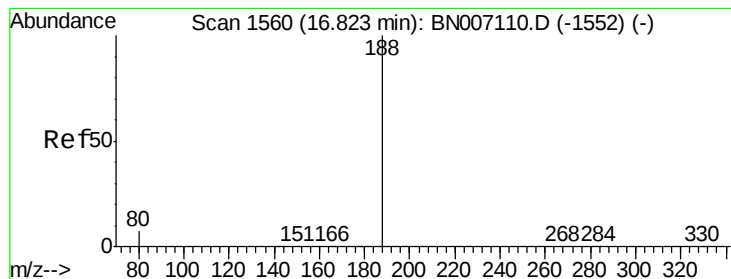


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

Instrument :

BNA_N

ClientSampleId :

PST-016-B054-073119

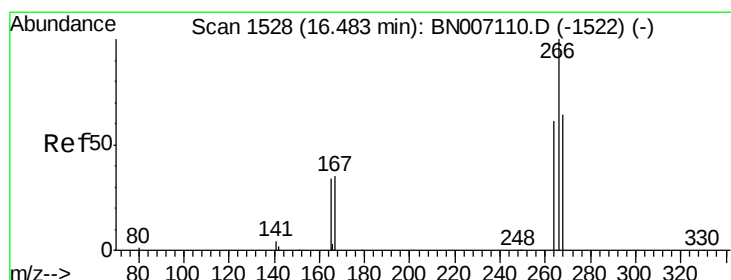
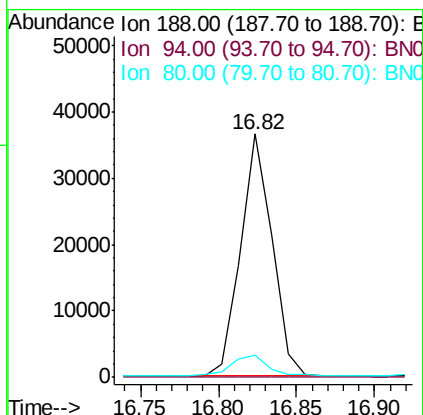
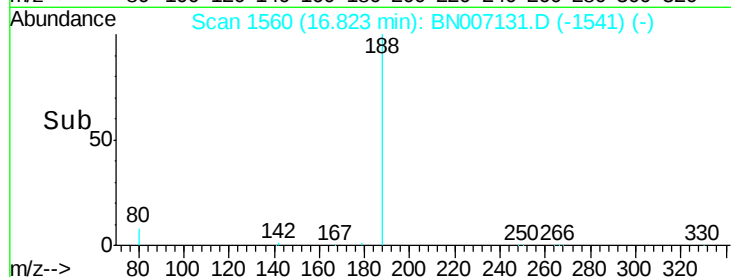
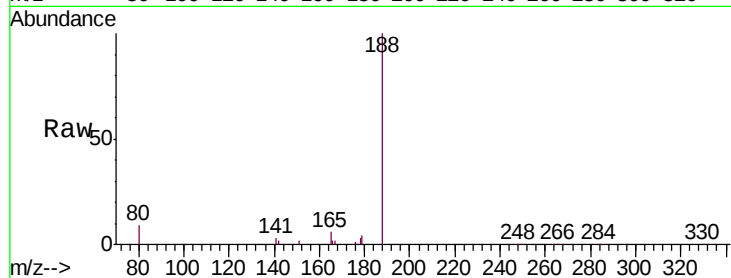
Tgt Ion:188 Resp: 50968

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.0 7.8 11.6



#21

Pentachlorophenol

Concen: 0.027 ng

RT: 16.48 min Scan# 1528

Delta R.T. -0.00 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

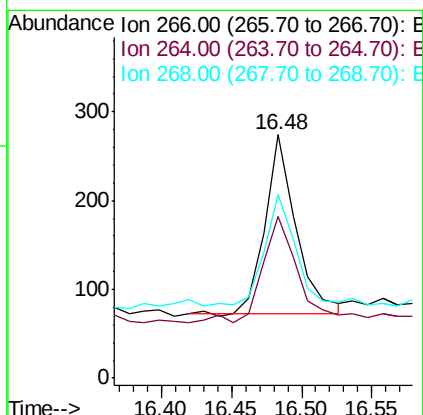
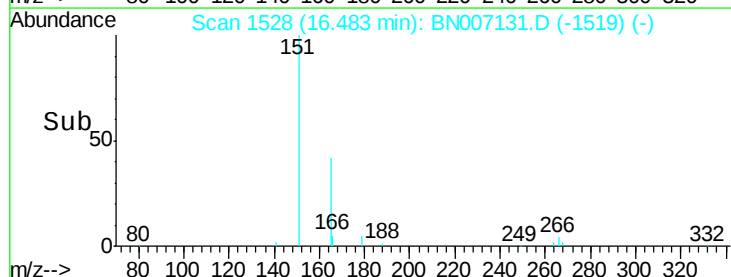
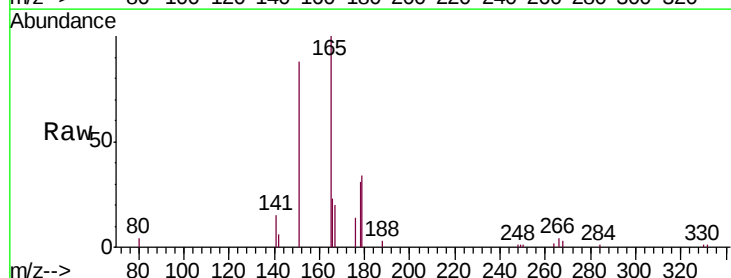
Tgt Ion:266 Resp: 309

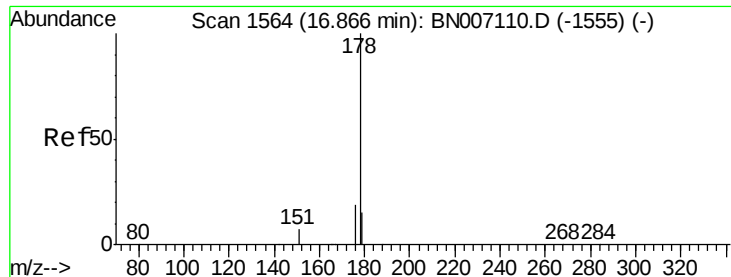
Ion Ratio Lower Upper

266 100

264 66.4 52.3 78.5

268 75.5 51.5 77.3





#22

Phenanthrene

Concen: 6.939 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

Instrument :

BNA_N

ClientSampleId :

PST-016-B054-073119

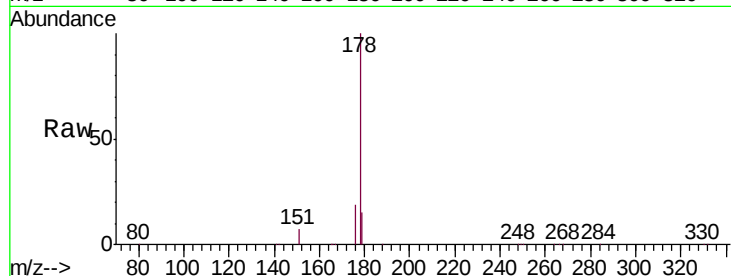
Tgt Ion:178 Resp: 1059939

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

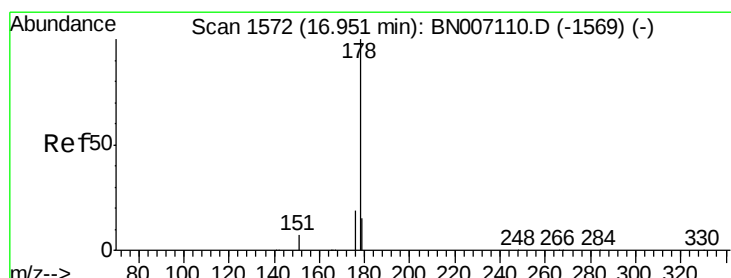
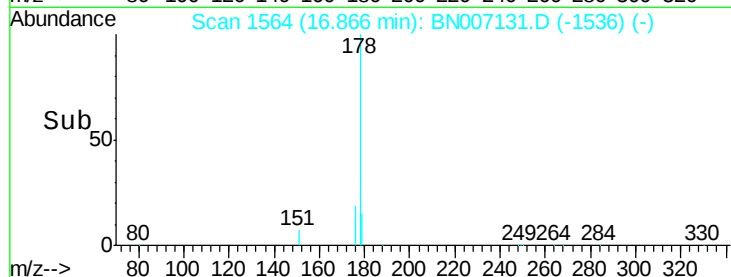
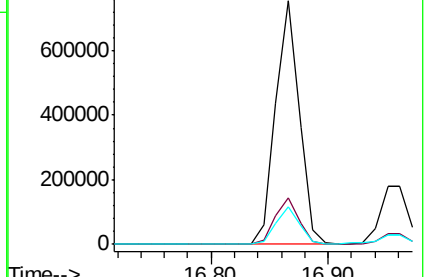
179 15.7 12.3 18.5



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: 2.114 ng

RT: 16.96 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

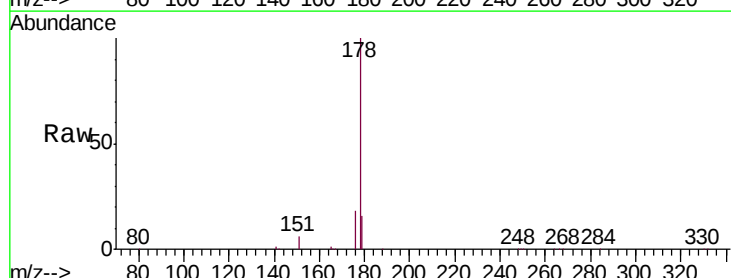
Tgt Ion:178 Resp: 294998

Ion Ratio Lower Upper

178 100

176 18.2 14.6 21.8

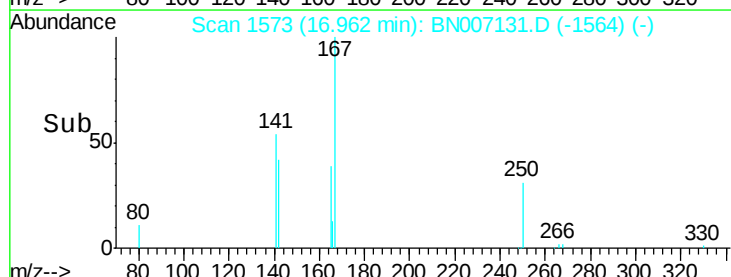
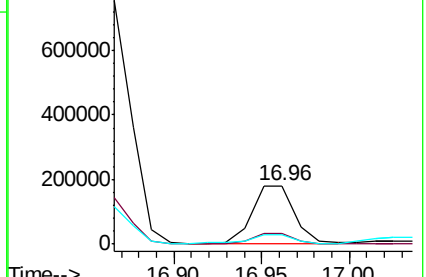
179 15.9 12.5 18.7

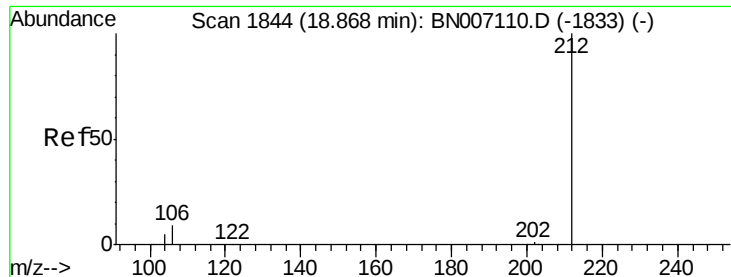


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

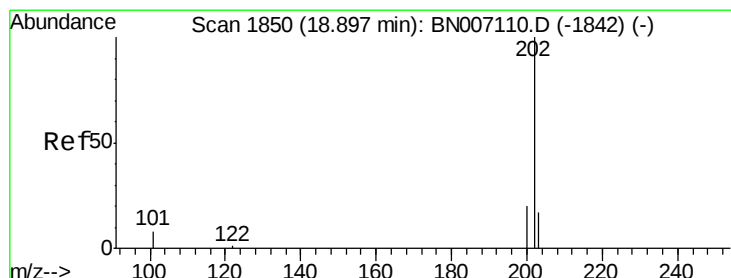
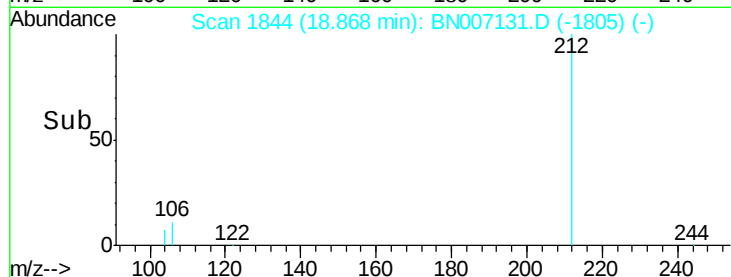
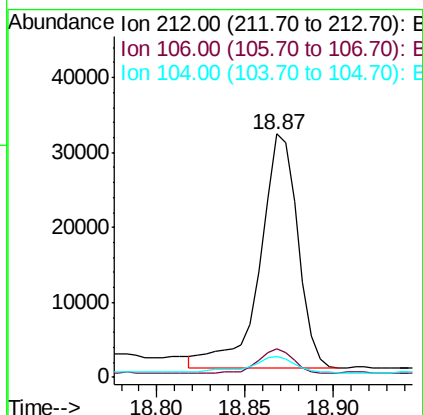
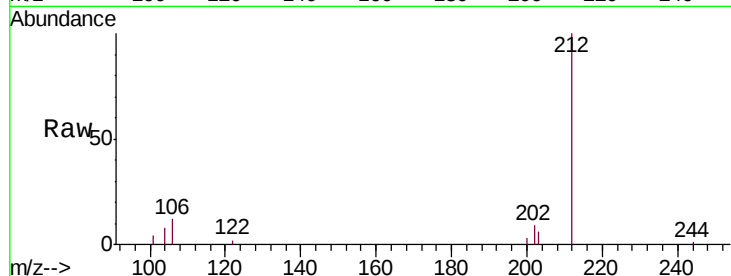




#24
 Fluoranthene-d10
 Concen: 0.256 ng
 RT: 18.87 min Scan# 1844
 Delta R.T. -0.01 min
 Lab File: BN007131.D
 Acq: 13 Aug 2019 14:43

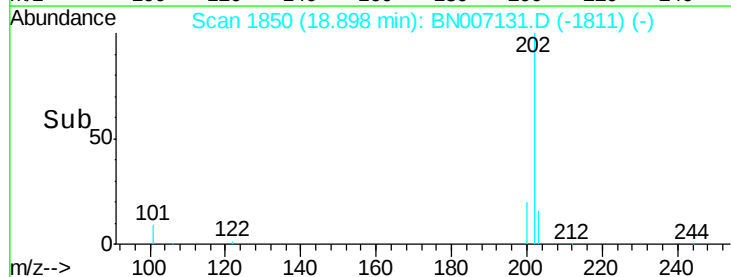
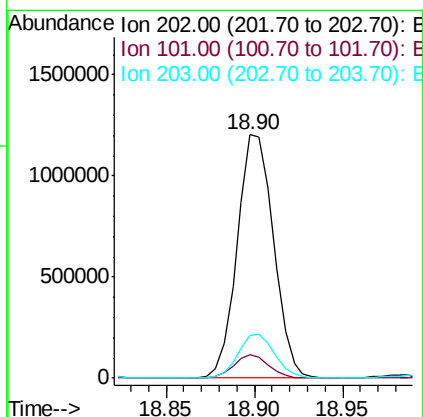
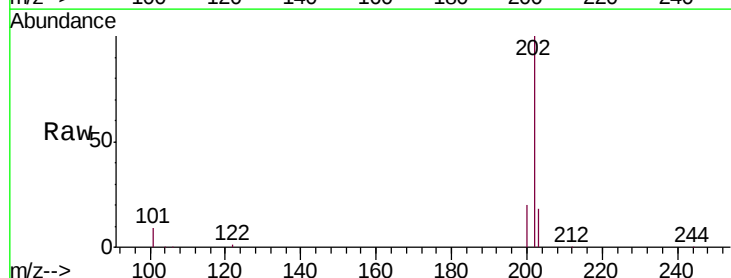
Instrument :
 BNA_N
 ClientSampleId :
 PST-016-B054-073119

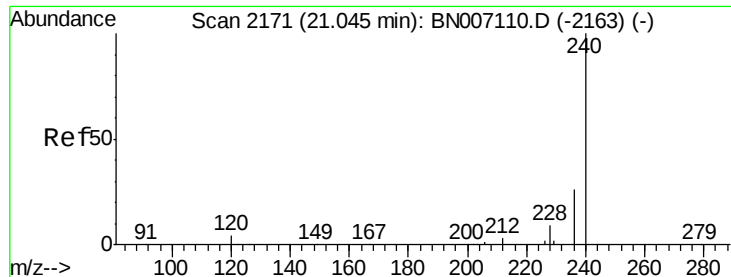
Tgt Ion:212 Resp: 46321
 Ion Ratio Lower Upper
 212 100
 106 9.8 8.2 12.2
 104 8.8 4.5 6.7#



#25
 Fluoranthene
 Concen: 8.752 ng
 RT: 18.90 min Scan# 1850
 Delta R.T. -0.01 min
 Lab File: BN007131.D
 Acq: 13 Aug 2019 14:43

Tgt Ion:202 Resp: 1710143
 Ion Ratio Lower Upper
 202 100
 101 9.1 7.0 10.4
 203 18.0 13.8 20.8

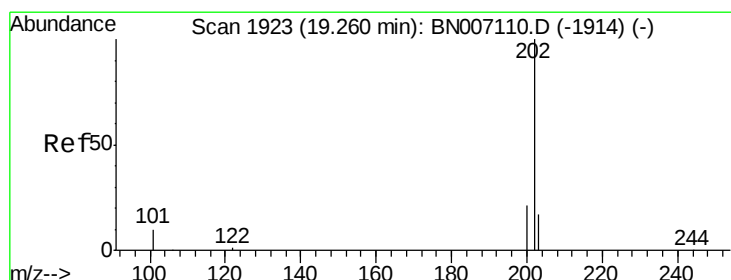
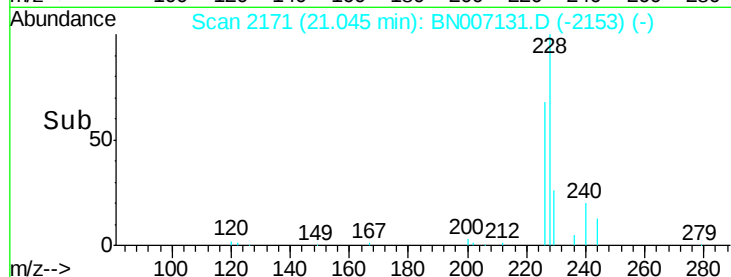
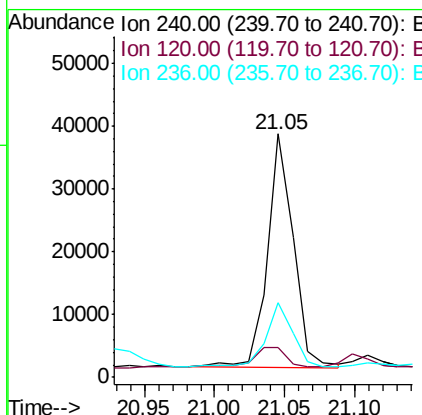
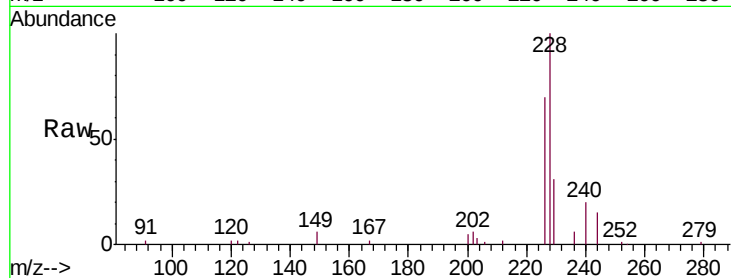




#26
Chrysene-d12
Concen: 0.400 ng
RT: 21.05 min Scan# 2171
Delta R.T. -0.01 min
Lab File: BN007131.D
Acq: 13 Aug 2019 14:43

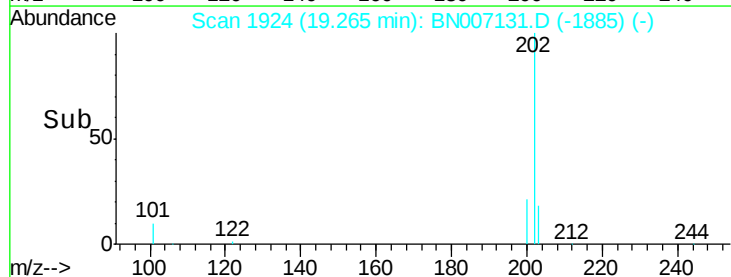
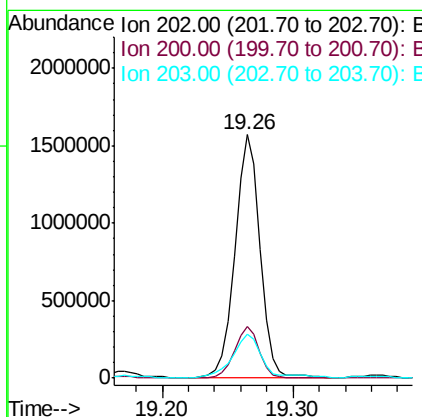
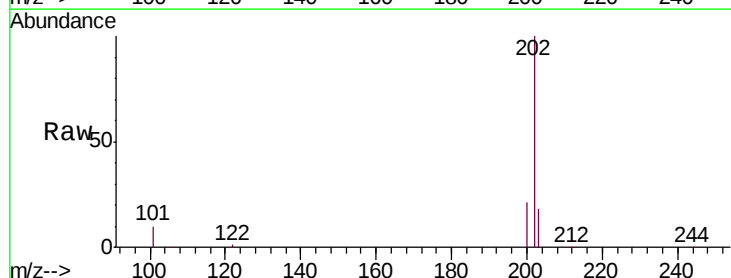
Instrument :
BNA_N
ClientSampleId :
PST-016-B054-073119

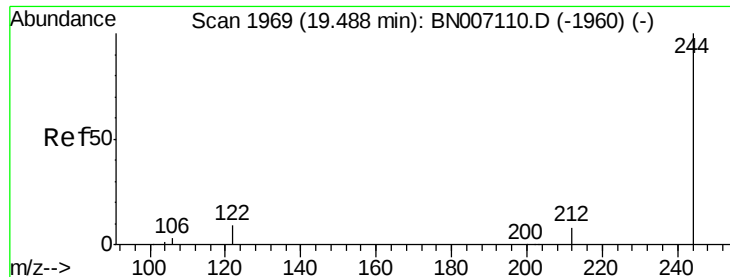
Tgt Ion: 240 Resp: 48245
Ion Ratio Lower Upper
240 100
120 12.1 4.0 6.0#
236 30.7 21.3 31.9



#27
Pyrene
Concen: 12.371 ng
RT: 19.26 min Scan# 1924
Delta R.T. -0.01 min
Lab File: BN007131.D
Acq: 13 Aug 2019 14:43

Tgt Ion: 202 Resp: 2092984
Ion Ratio Lower Upper
202 100
200 20.9 16.6 24.8
203 20.0 14.0 21.0





#28

Terphenyl-d14

Concen: 0.260 ng

RT: 19.49 min Scan# 1970

Delta R.T. -0.01 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

Instrument :

BNA_N

ClientSampleId :

PST-016-B054-073119

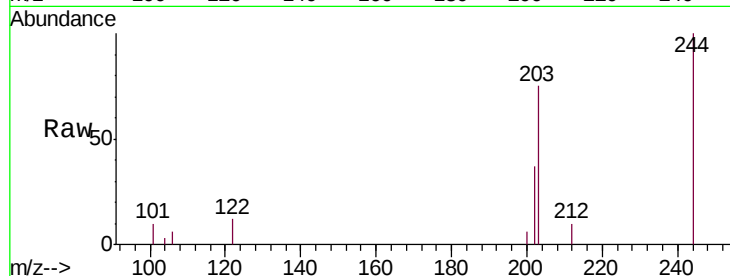
Tgt Ion:244 Resp: 34242

Ion Ratio Lower Upper

244 100

212 10.4 6.2 9.2#

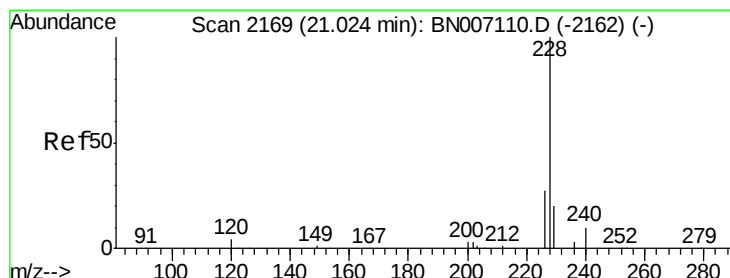
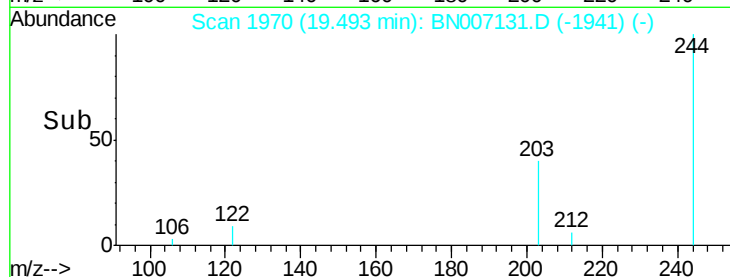
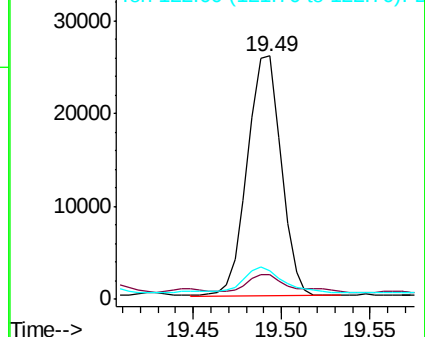
122 11.8 7.4 11.2#



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: 5.992 ng m

RT: 21.03 min Scan# 2170

Delta R.T. -0.00 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

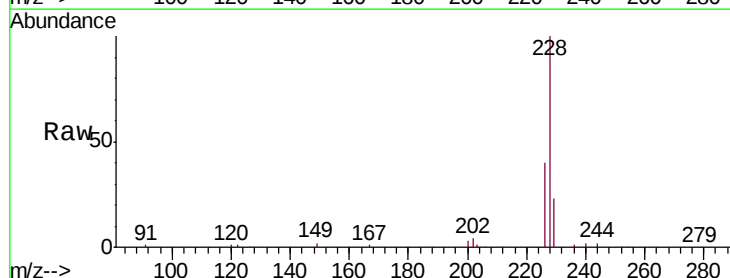
Tgt Ion:228 Resp: 1057268

Ion Ratio Lower Upper

228 100

226 40.3 21.8 32.6#

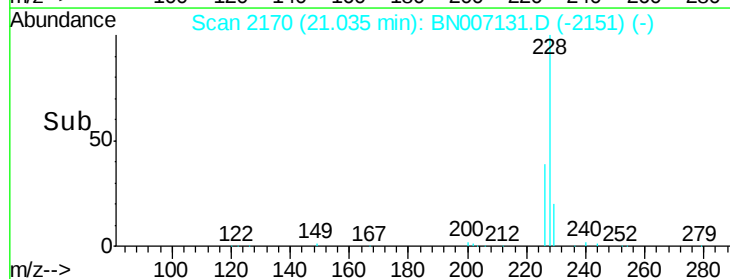
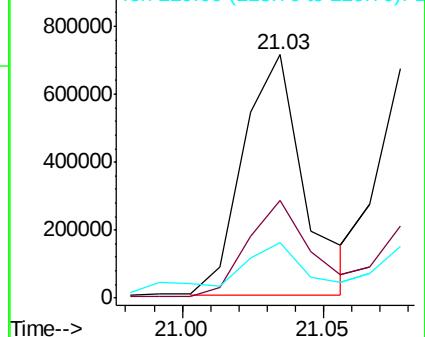
229 22.7 15.6 23.4

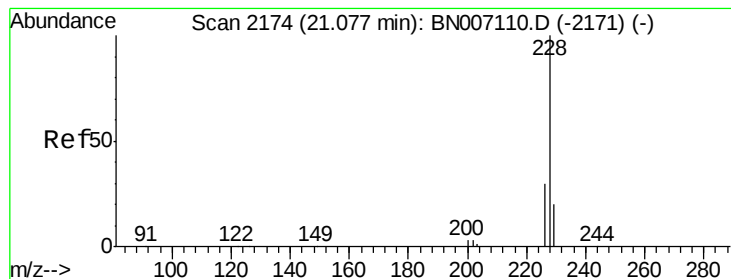


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#30

Chrysene

Concen: 6.531 ng

RT: 21.09 min Scan# 2175

Delta R.T. -0.00 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

Instrument :

BNA_N

ClientSampleId :

PST-016-B054-073119

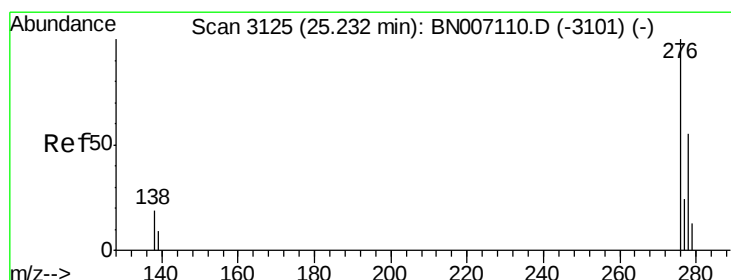
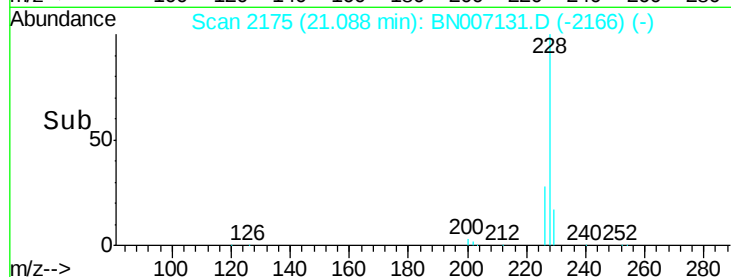
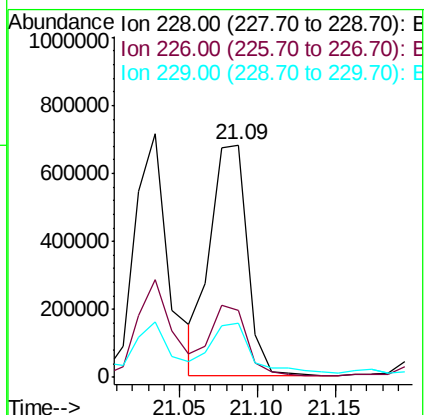
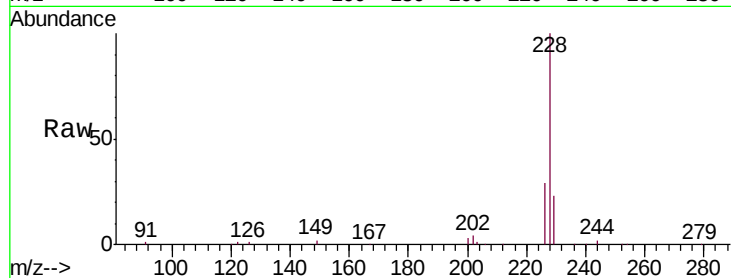
Tgt Ion:228 Resp: 1119617

Ion Ratio Lower Upper

228 100

226 28.8 23.8 35.6

229 23.1 15.7 23.5



#31

Indeno(1,2,3-cd)pyrene

Concen: 3.687 ng

RT: 25.25 min Scan# 3129

Delta R.T. -0.01 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

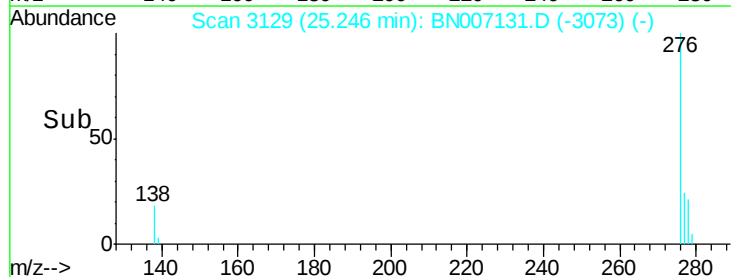
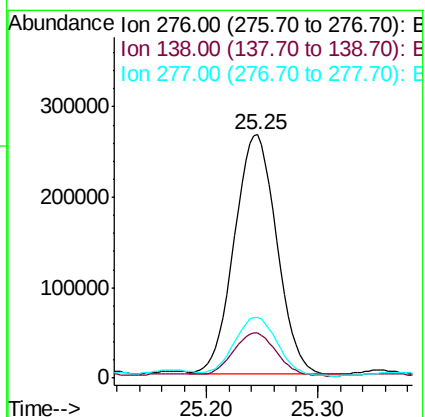
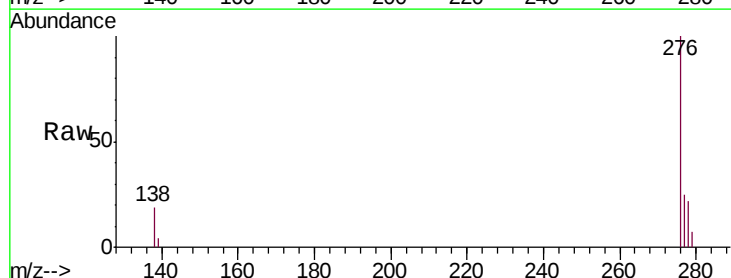
Tgt Ion:276 Resp: 696645

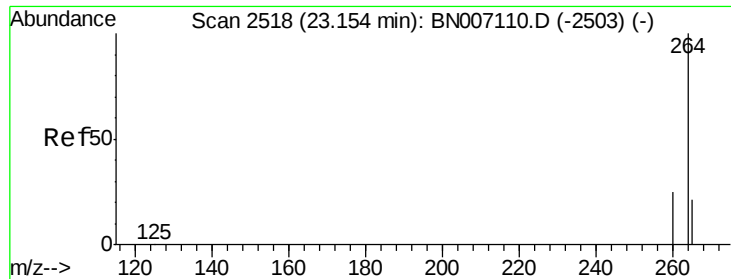
Ion Ratio Lower Upper

276 100

138 18.4 16.0 24.0

277 25.0 19.9 29.9



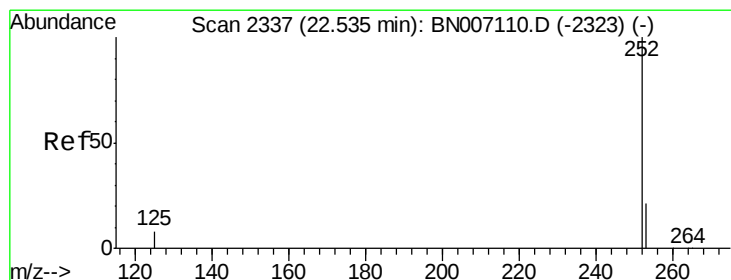
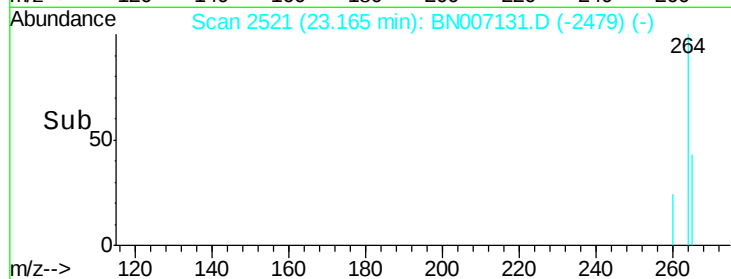
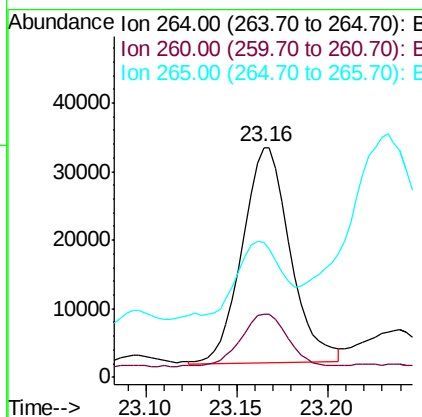
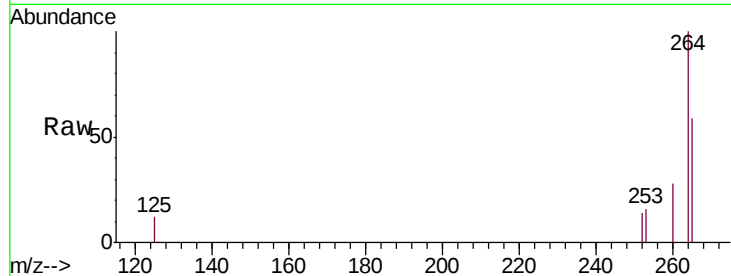


#32
Perylene-d12
Concen: 0.400 ng
RT: 23.16 min Scan# 2521
Delta R.T. -0.01 min
Lab File: BN007131.D
Acq: 13 Aug 2019 14:43

Instrument :
BNA_N
ClientSampleId :
PST-016-B054-073119

Tgt Ion: 264 Resp: 57688

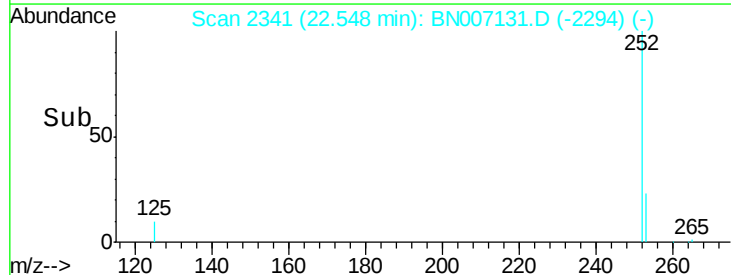
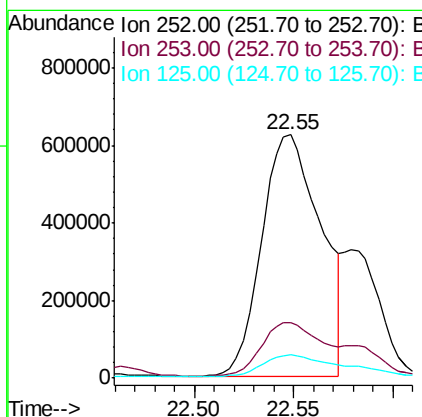
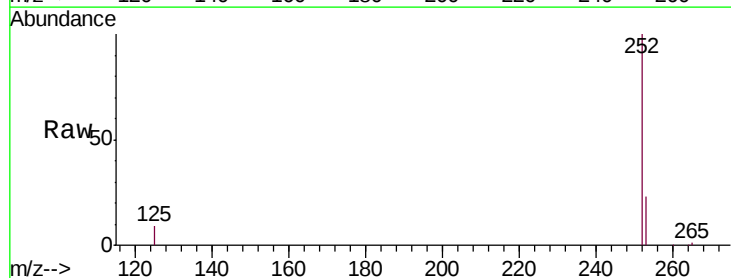
Ion	Ratio	Lower	Upper
264	100		
260	27.6	19.8	29.8
265	59.0	26.2	39.4

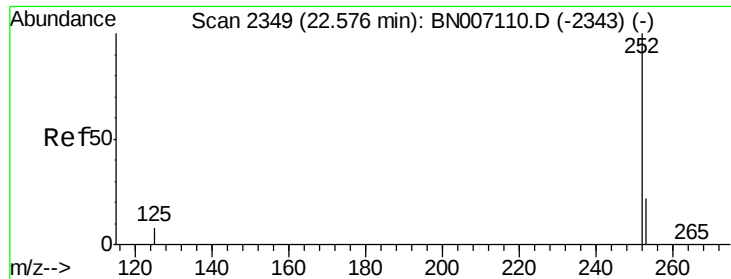


#33
Benzo(b)fluoranthene
Concen: 6.535 ng
RT: 22.55 min Scan# 2341
Delta R.T. -0.00 min
Lab File: BN007131.D
Acq: 13 Aug 2019 14:43

Tgt Ion: 252 Resp: 1292721

Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.2
125	9.4	7.4	11.0





#34

Benzo(k)fluoranthene

Concen: 2.150 ng m

RT: 22.58 min Scan# 2350

Delta R.T. -0.01 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

Instrument :

BNA_N

ClientSampleId :

PST-016-B054-073119

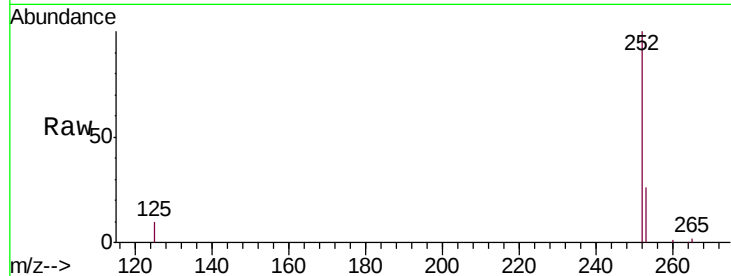
Tgt Ion:252 Resp: 420041

Ion Ratio Lower Upper

252 100

253 25.5 18.1 27.1

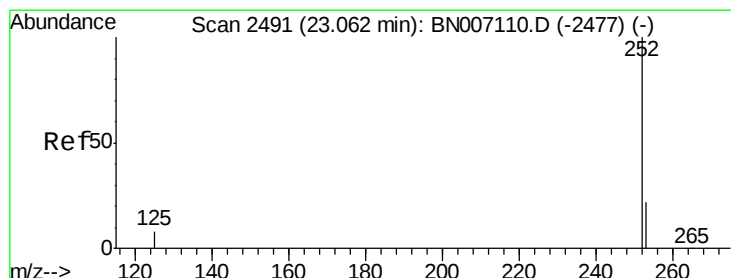
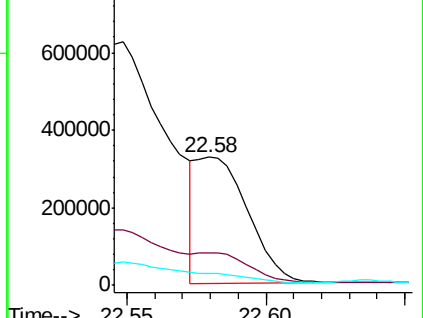
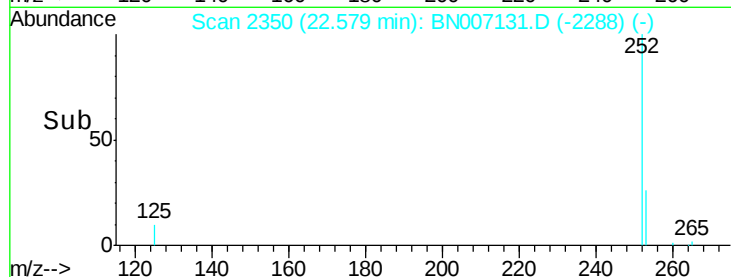
125 9.6 7.4 11.0



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: 5.524 ng

RT: 23.08 min Scan# 2495

Delta R.T. -0.01 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

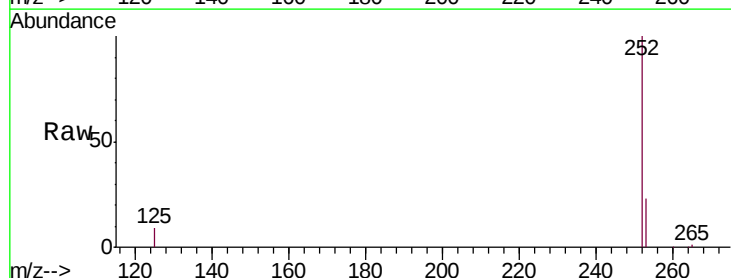
Tgt Ion:252 Resp: 990595

Ion Ratio Lower Upper

252 100

253 23.1 18.5 27.7

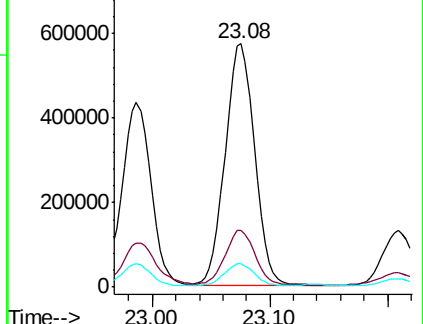
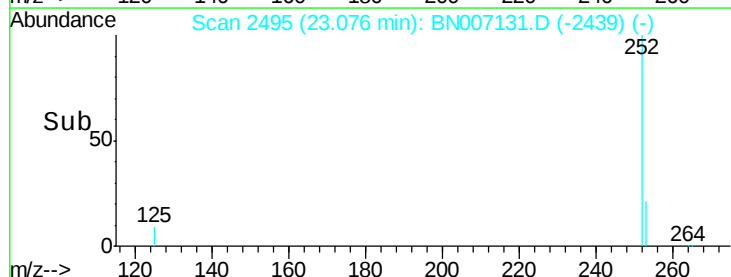
125 9.5 8.2 12.4

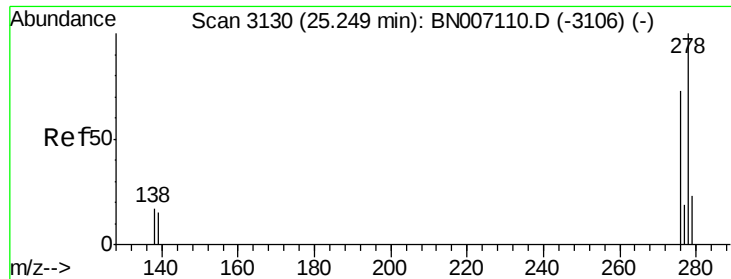


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#36

Dibenzo(a,h)anthracene

Concen: 1.042 ng

RT: 25.25 min Scan# 3130

Delta R.T. -0.02 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

Instrument :

BNA_N

ClientSampleId :

PST-016-B054-073119

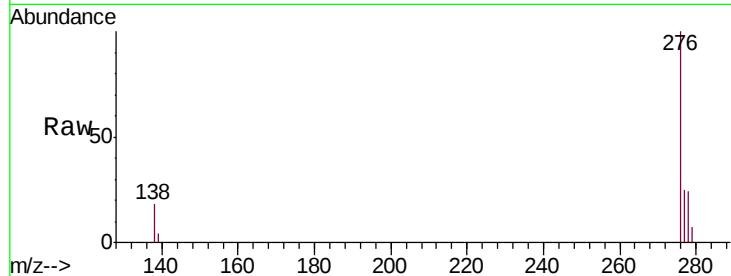
Tgt Ion: 278 Resp: 186482

Ion Ratio Lower Upper

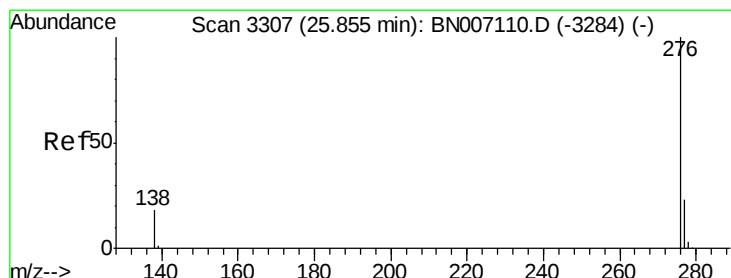
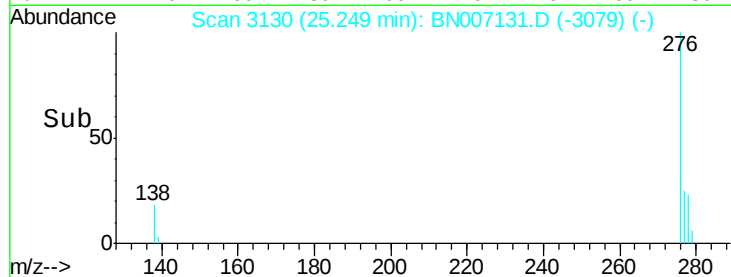
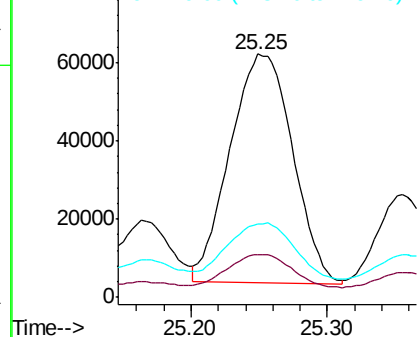
278 100

139 17.6 11.3 16.9#

279 30.4 19.3 28.9#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#37

Benzo(g,h,i)perylene

Concen: 4.043 ng

RT: 25.88 min Scan# 3313

Delta R.T. -0.00 min

Lab File: BN007131.D

Acq: 13 Aug 2019 14:43

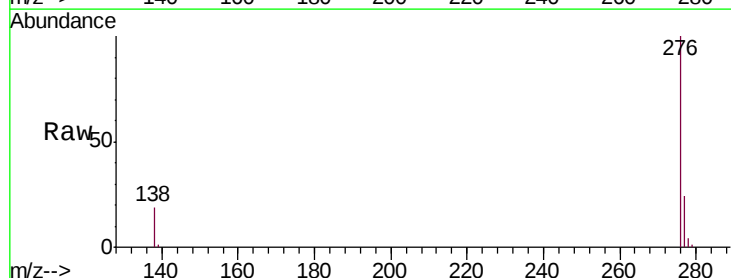
Tgt Ion: 276 Resp: 744114

Ion Ratio Lower Upper

276 100

277 24.5 19.8 29.8

138 18.6 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

