

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN081319\
 Data File : BN007132.D
 Acq On : 13 Aug 2019 15:19
 Operator : HP/JU
 Sample : K4173-03
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-035-SW106-073119

Quant Time: Aug 14 03:37:58 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	9770	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	37882	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	21427	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	49876	0.40	ng	0.00
26) Chrysene-d12	21.05	240	48133	0.40	ng	-0.01
32) Perylene-d12	23.16	264	54111	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	9133	0.39	ng	0.00
4) Phenol-d6	6.61	99	12361	0.43	ng	0.00
7) Nitrobenzene-d5	8.56	82	10226	0.33	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	21848	0.31	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	4261	0.37	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	5303	0.17	ng	0.00
24) Fluoranthene-d10	18.87	212	47473	0.27	ng	0.00
28) Terphenyl-d14	19.49	244	38611	0.29	ng	0.00

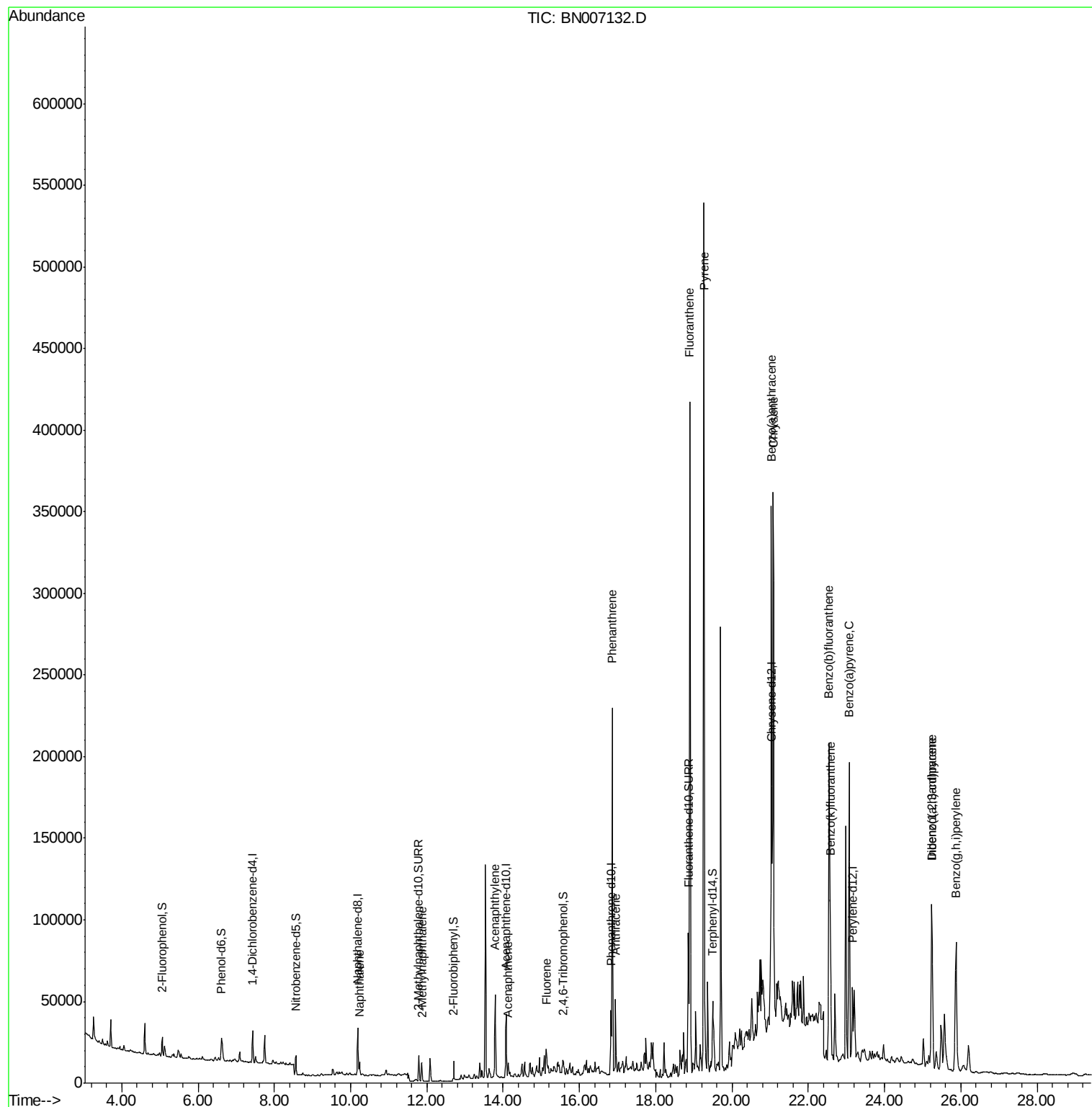
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.24	128	10974	0.103	ng	97
11) 2-Methylnaphthalene	11.87	142	8437	0.112	ng	96
15) Acenaphthylene	13.79	152	64415	0.575	ng	99
16) Acenaphthene	14.13	154	5381	0.075	ng	# 85
17) Fluorene	15.14	166	13215	0.123	ng	# 79
22) Phenanthrene	16.87	178	215210	1.440	ng	100
23) Anthracene	16.95	178	51669	0.378	ng	97
25) Fluoranthene	18.90	202	393283	2.057	ng	99
27) Pyrene	19.26	202	494172	2.928	ng	97
29) Benzo(a)anthracene	21.03	228	290135m	1.648	ng	
30) Chrysene	21.08	228	303516	1.775	ng	96
31) Indeno(1,2,3-cd)pyrene	25.24	276	151995	0.806	ng	99
33) Benzo(b)fluoranthene	22.54	252	340533m	1.835	ng	
34) Benzo(k)fluoranthene	22.58	252	82423m	0.450	ng	
35) Benzo(a)pyrene	23.07	252	230309	1.369	ng	99
36) Dibenzo(a,h)anthracene	25.25	278	46252	0.276	ng	# 80
37) Benzo(g,h,i)perylene	25.87	276	154965	0.898	ng	98

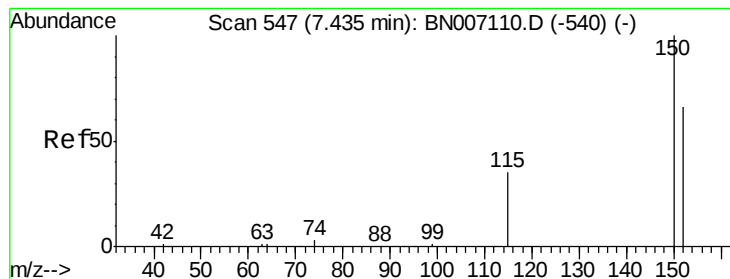
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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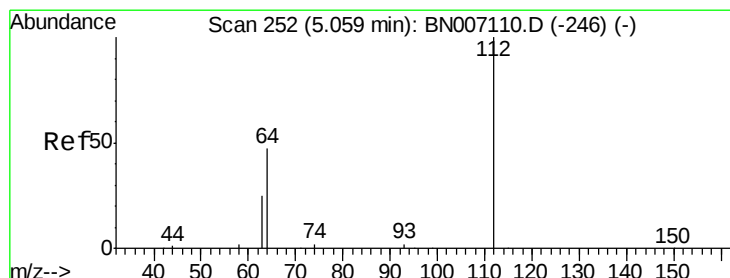
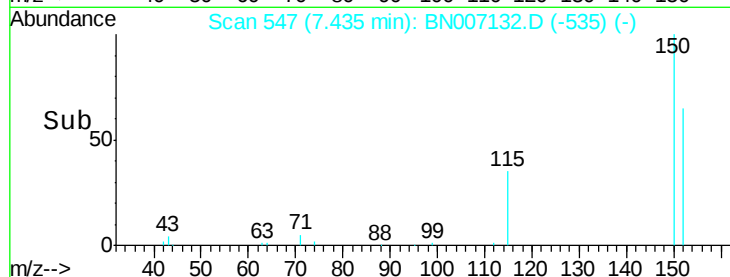
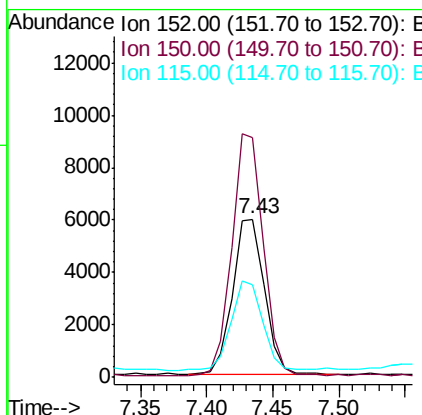
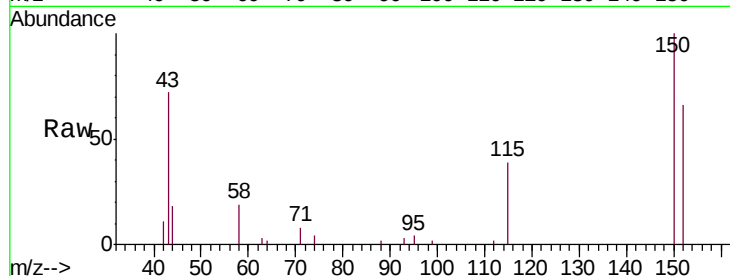


#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007132.D
Acq: 13 Aug 2019 15:19

Instrument :
BNA_N
ClientSampleId :
EXT-035-SW106-073119

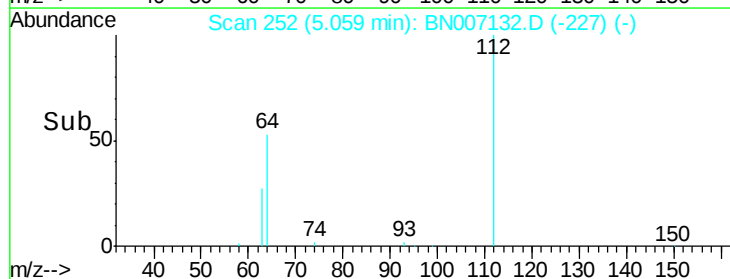
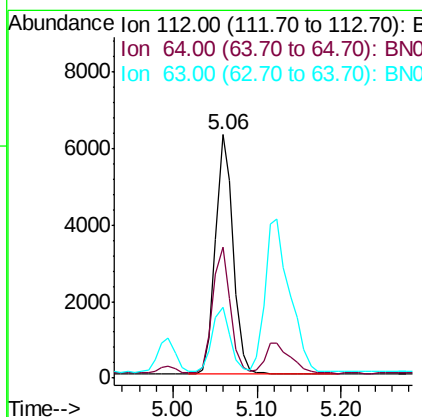
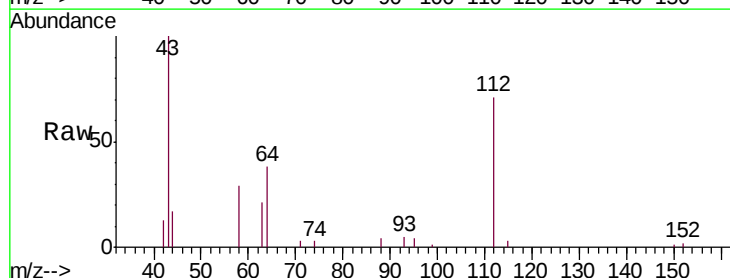
Tgt Ion:152 Resp: 9770
Ion Ratio Lower Upper
152 100
150 151.2 121.7 182.5
115 58.5 46.2 69.4

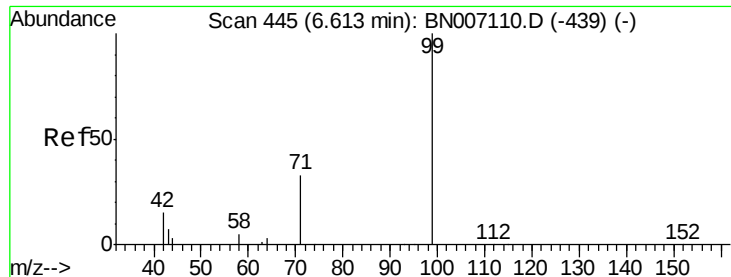


#3

2-Fluorophenol
Concen: 0.389 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007132.D
Acq: 13 Aug 2019 15:19

Tgt Ion:112 Resp: 9133
Ion Ratio Lower Upper
112 100
64 51.9 42.6 63.8
63 27.4 22.2 33.2





#4

Phenol-d6

Concen: 0.425 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW106-073119

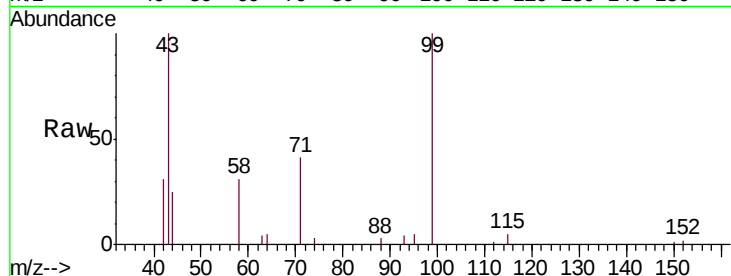
Tgt Ion: 99 Resp: 12361

Ion Ratio Lower Upper

99 100

42 22.4 15.8 23.6

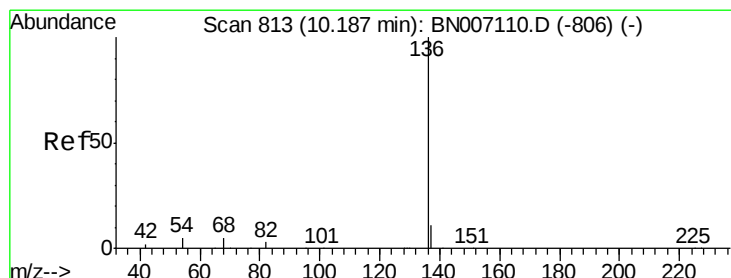
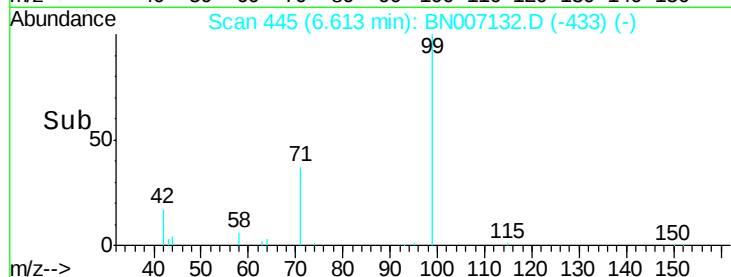
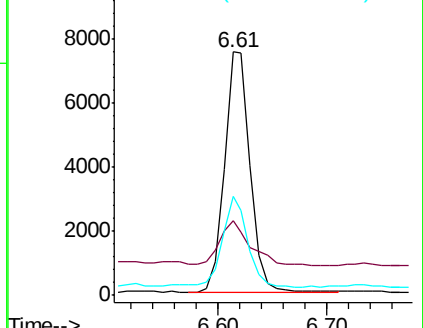
71 37.5 27.0 40.4



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: BN007132.D

Acq: 13 Aug 2019 15:19

Tgt Ion: 136 Resp: 37882

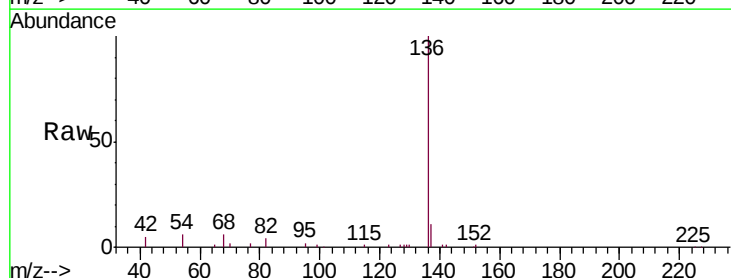
Ion Ratio Lower Upper

136 100

137 11.1 9.4 14.0

54 6.2 6.6 9.8#

68 6.0 6.0 9.0

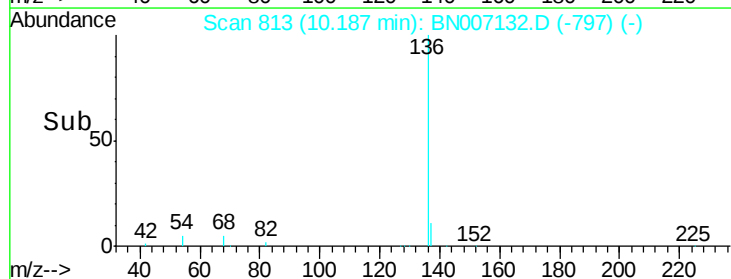
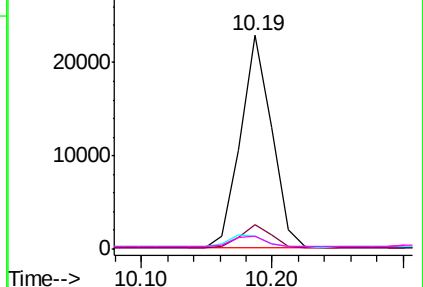


Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

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: 0.335 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW106-073119

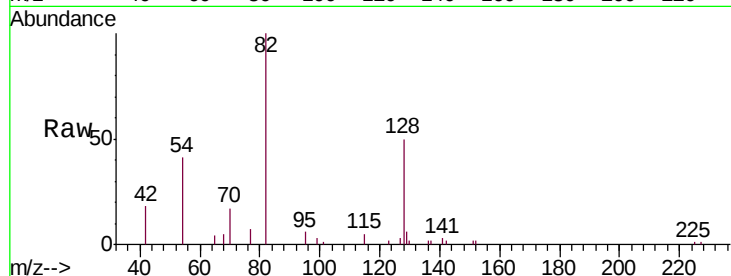
Tgt Ion: 82 Resp: 10226

Ion Ratio Lower Upper

82 100

128 50.3 34.6 51.8

54 40.9 36.2 54.4

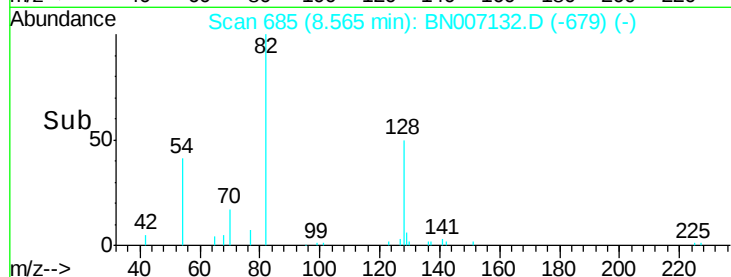


Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

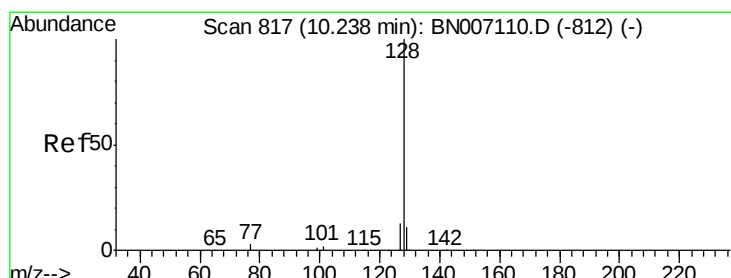
Ion 128.00 (127.70 to 128.70): BN007110.D (-681) (-)

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

Time-->



Time-->



#8

Naphthalene

Concen: 0.103 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

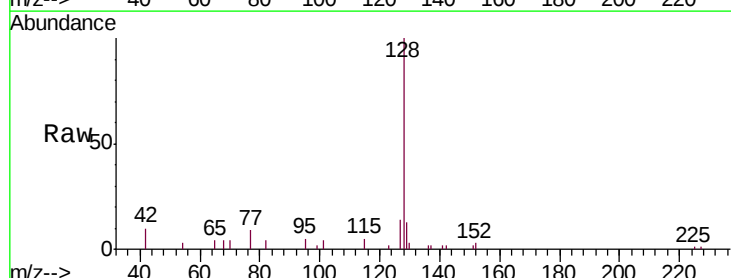
Tgt Ion: 128 Resp: 10974

Ion Ratio Lower Upper

128 100

129 13.3 9.4 14.2

127 14.3 11.0 16.6

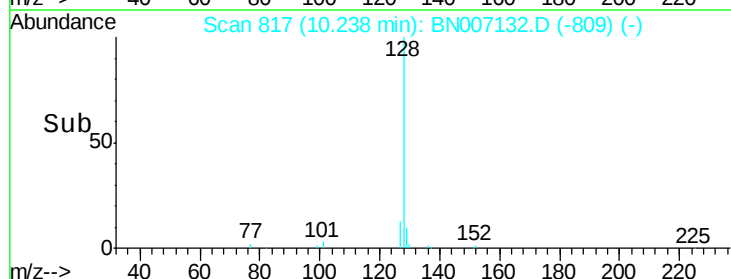


Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

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

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

Time-->



Time-->



#10

2-Methylnaphthalene-d10

Concen: 0.309 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

Instrument :

BNA_N

ClientSampleId :

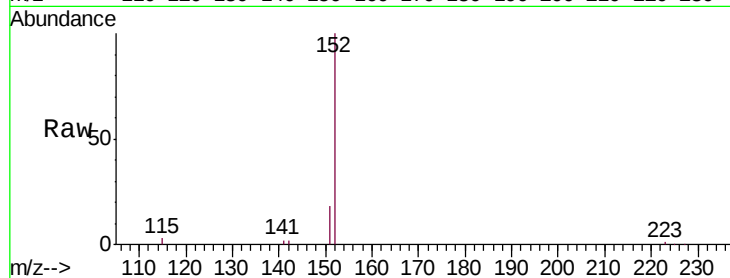
EXT-035-SW106-073119

Tgt Ion:152 Resp: 21848

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

11.79

15000

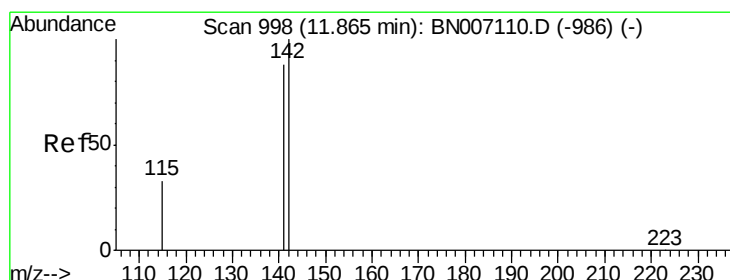
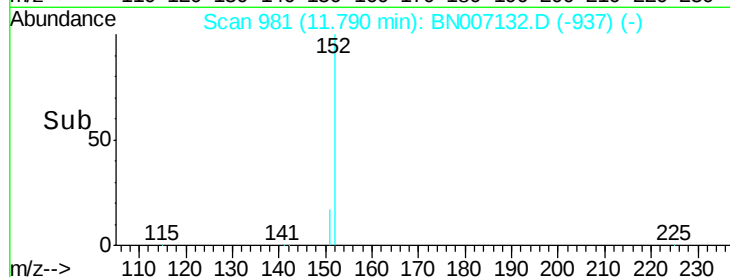
10000

5000

0

Time-->

11.70 11.80



#11

2-Methylnaphthalene

Concen: 0.112 ng

RT: 11.87 min Scan# 998

Delta R.T. -0.00 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

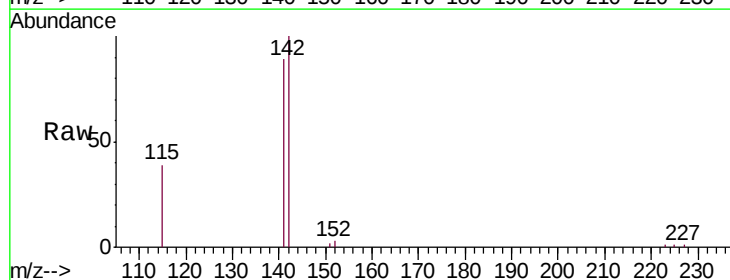
Tgt Ion:142 Resp: 8437

Ion Ratio Lower Upper

142 100

141 89.0 69.0 103.6

115 38.7 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

6000

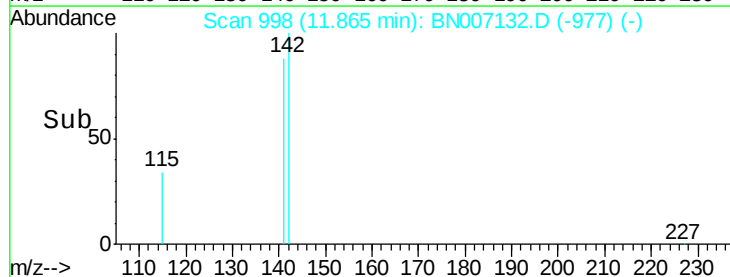
4000

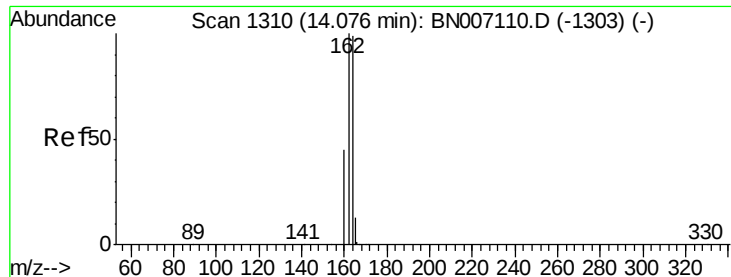
2000

0

Time-->

11.80 11.85 11.90





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW106-073119

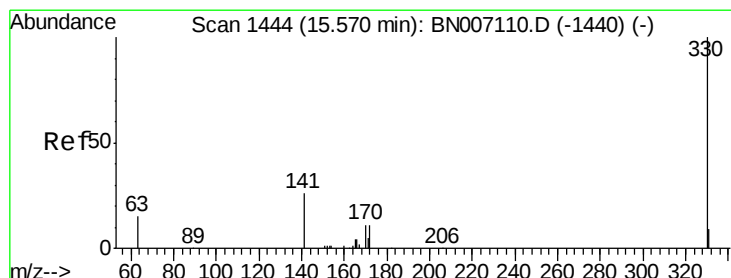
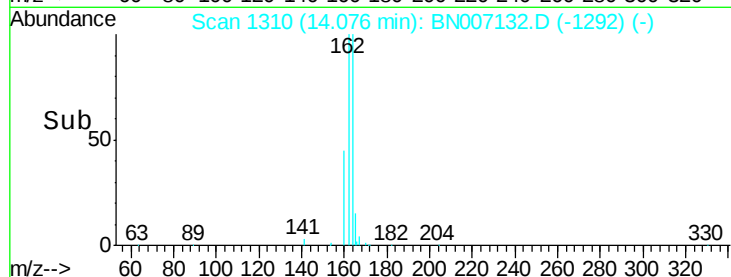
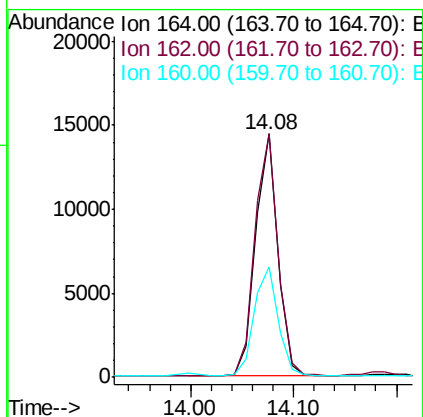
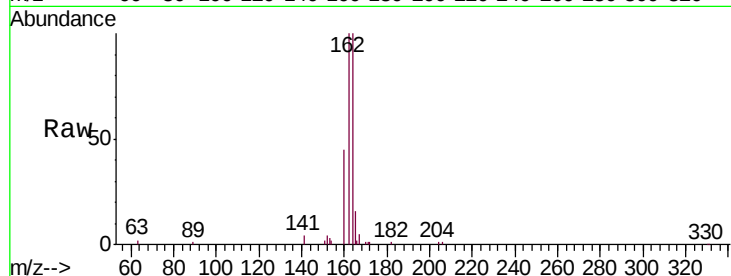
Tgt Ion:164 Resp: 21427

Ion Ratio Lower Upper

164 100

162 100.2 82.2 123.4

160 45.4 38.3 57.5



#13

2,4,6-Tribromophenol

Concen: 0.369 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

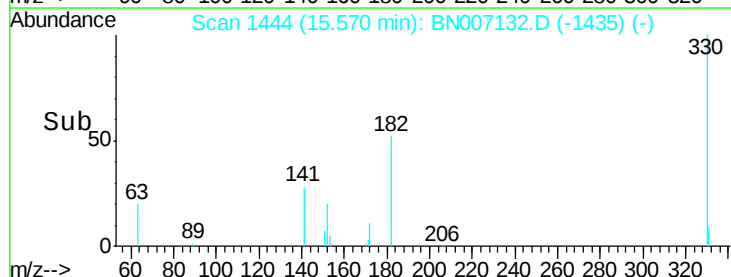
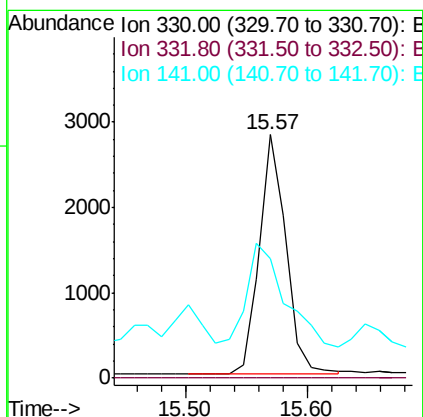
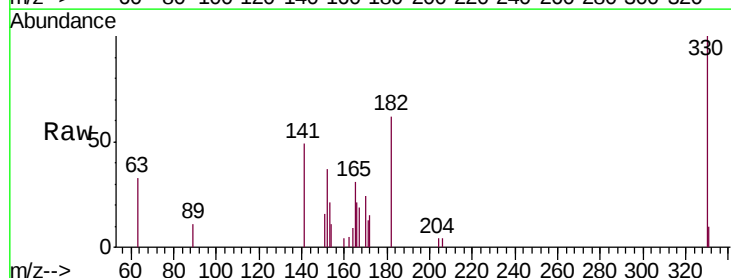
Tgt Ion:330 Resp: 4261

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 62.1 33.6 50.4#

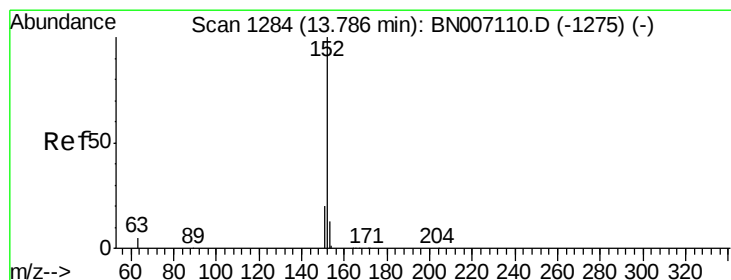
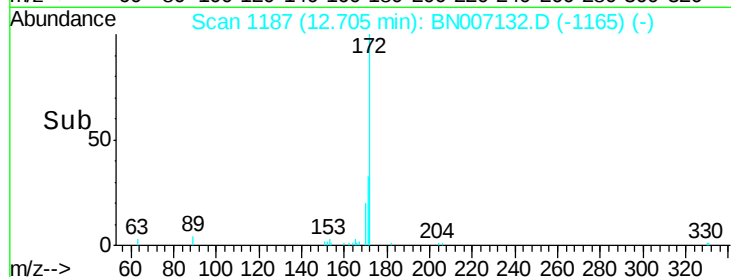
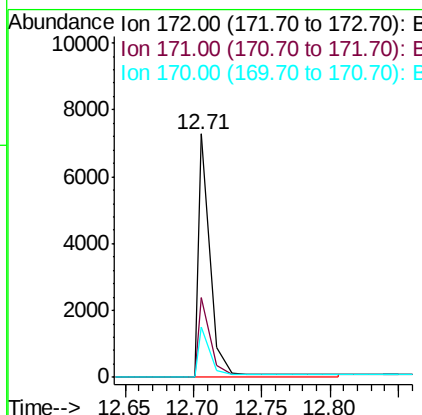
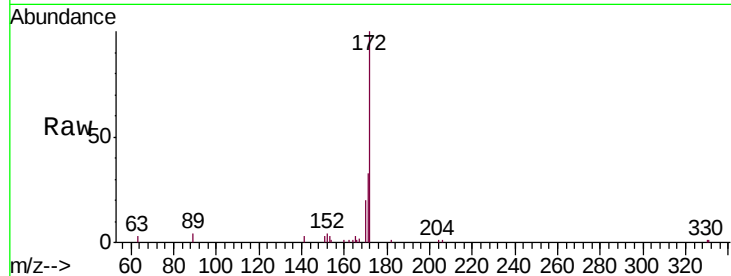




#14
2-Fluorobiphenyl
Concen: 0.170 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007132.D
Acq: 13 Aug 2019 15:19

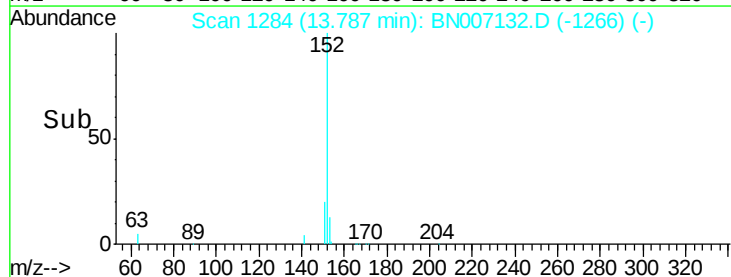
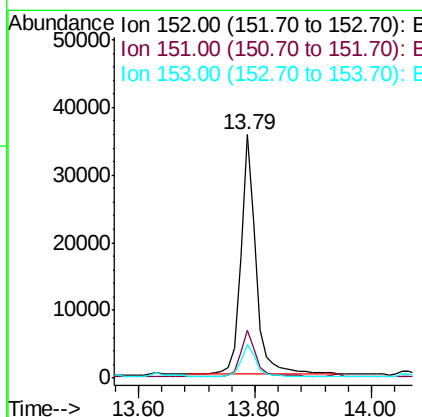
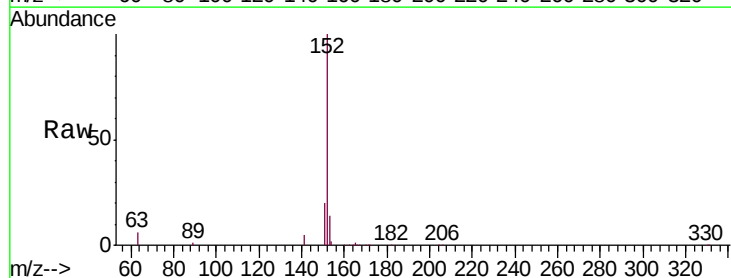
Instrument :
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EXT-035-SW106-073119

Tgt Ion:172 Resp: 5303
Ion Ratio Lower Upper
172 100
171 32.6 26.3 39.5
170 20.4 17.0 25.4



#15
Acenaphthylene
Concen: 0.575 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007132.D
Acq: 13 Aug 2019 15:19

Tgt Ion:152 Resp: 64415
Ion Ratio Lower Upper
152 100
151 20.0 15.8 23.6
153 13.2 10.4 15.6





#16

Acenaphthene

Concen: 0.075 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW106-073119

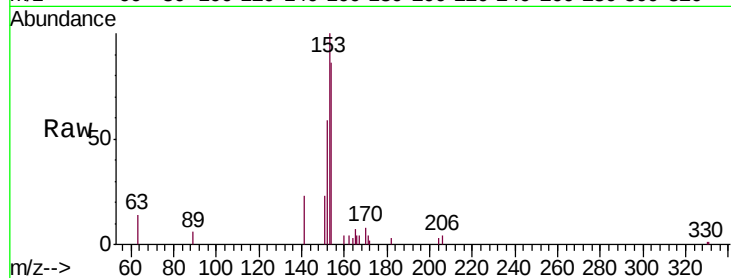
Tgt Ion:154 Resp: 5381

Ion Ratio Lower Upper

154 100

153 126.5 89.5 134.3

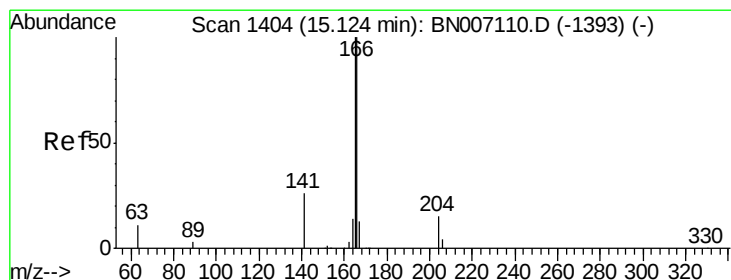
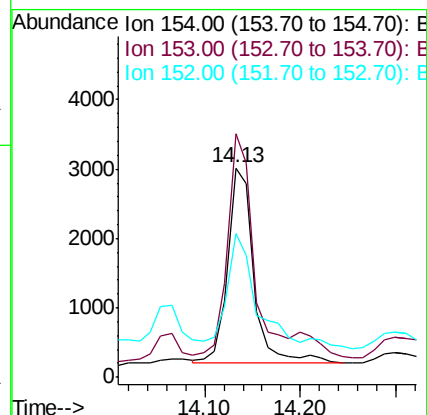
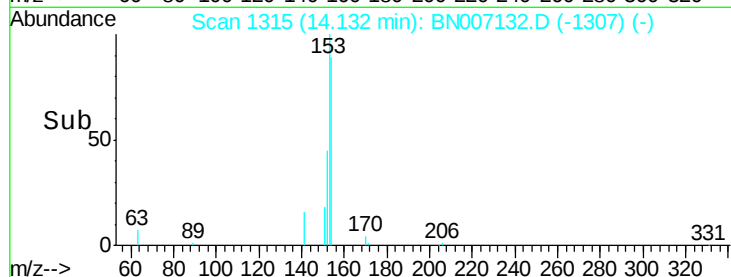
152 69.6 44.8 67.2#



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: 0.123 ng

RT: 15.14 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

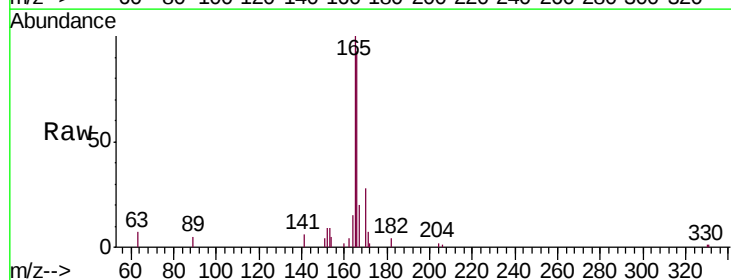
Tgt Ion:166 Resp: 13215

Ion Ratio Lower Upper

166 100

165 120.4 77.9 116.9#

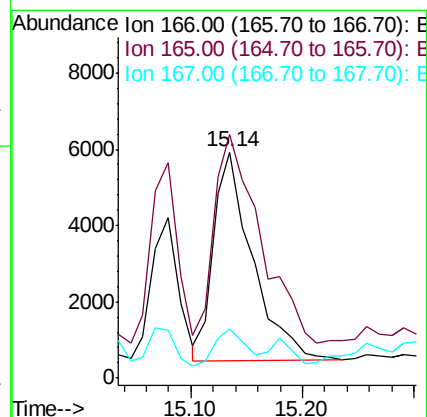
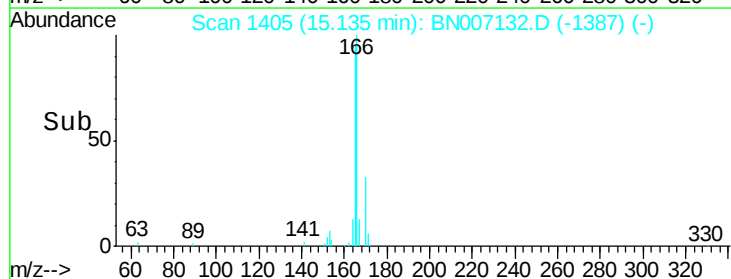
167 13.9 10.9 16.3

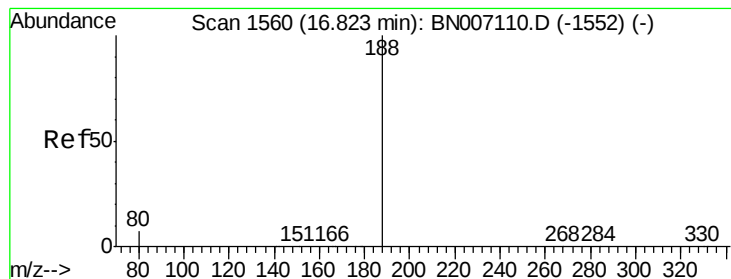


Abundance Ion 166.00 (165.70 to 166.70): E

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: BN007132.D

Acq: 13 Aug 2019 15:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW106-073119

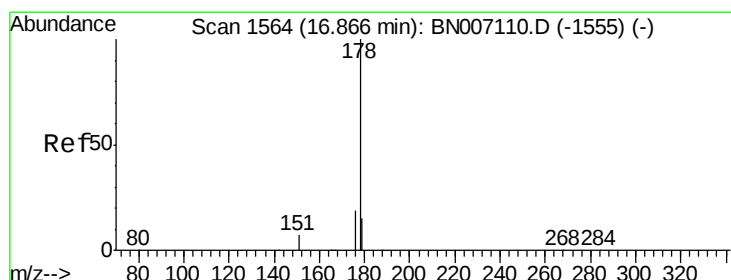
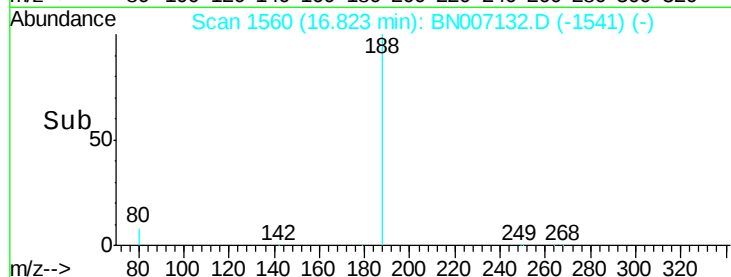
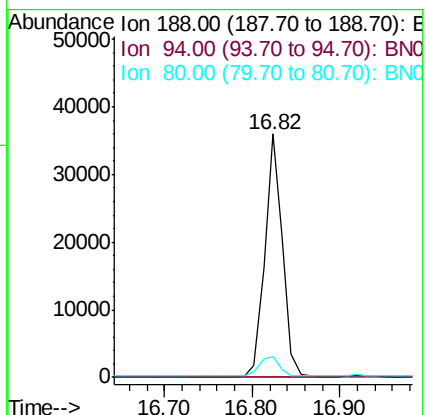
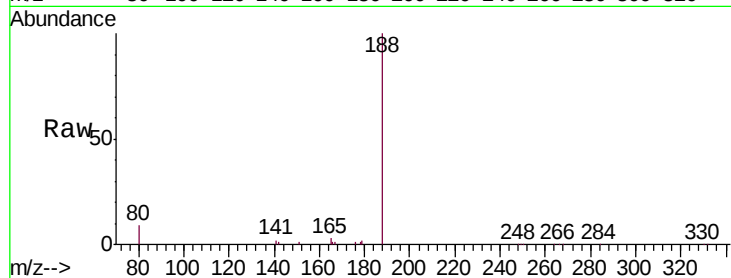
Tgt Ion:188 Resp: 49876

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.8 7.8 11.6



#22

Phenanthrene

Concen: 1.440 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

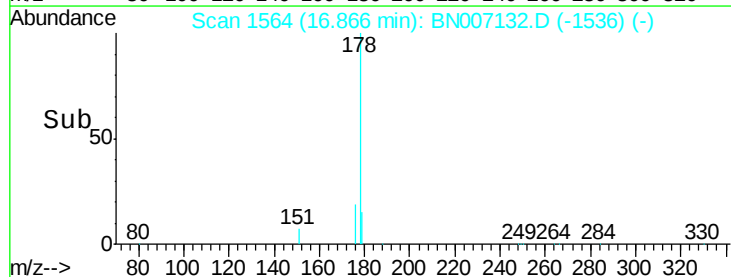
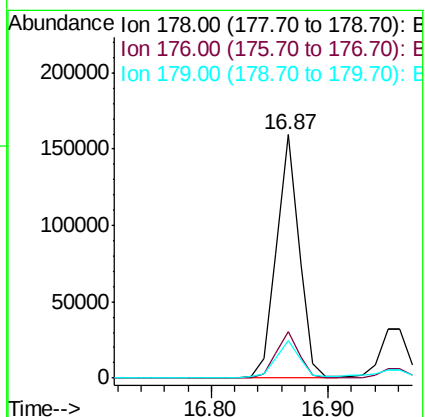
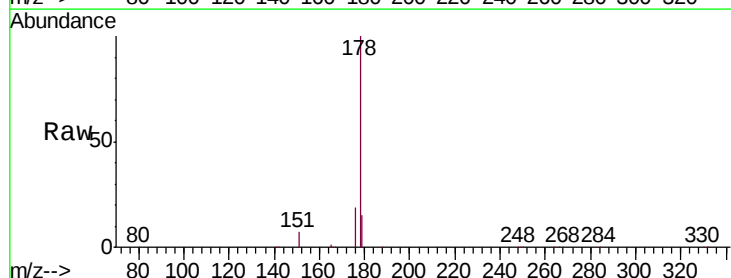
Tgt Ion:178 Resp: 215210

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

179 15.7 12.3 18.5





#23

Anthracene

Concen: 0.378 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW106-073119

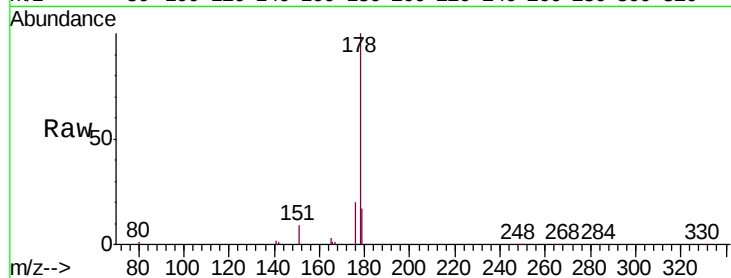
Tgt Ion:178 Resp: 51669

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

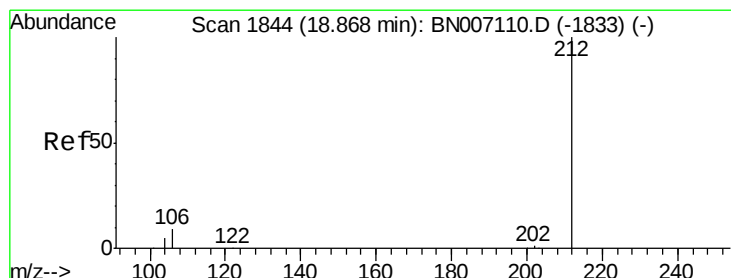
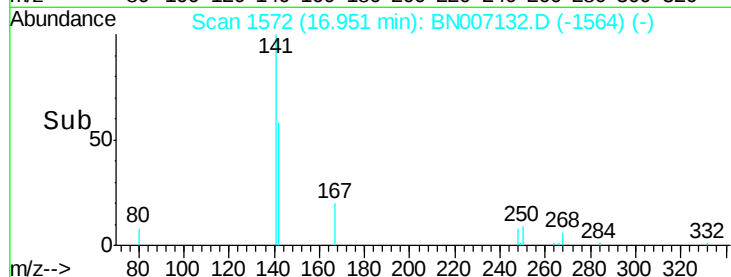
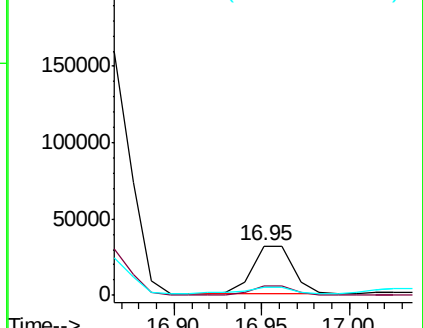
179 18.3 12.5 18.7



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: 0.268 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

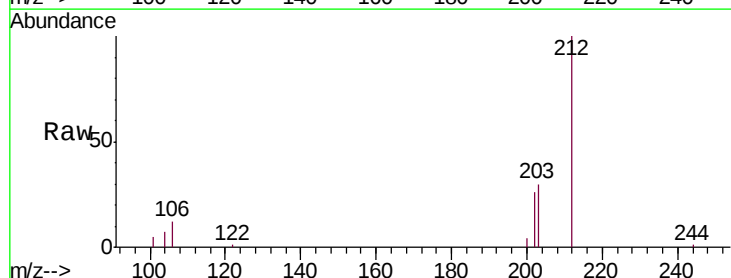
Tgt Ion:212 Resp: 47473

Ion Ratio Lower Upper

212 100

106 10.7 8.2 12.2

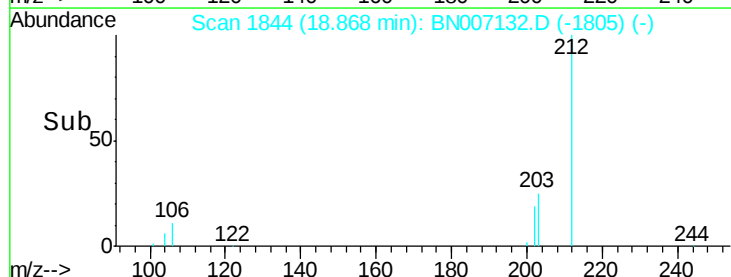
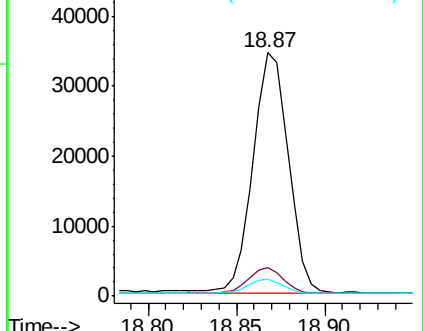
104 6.3 4.5 6.7

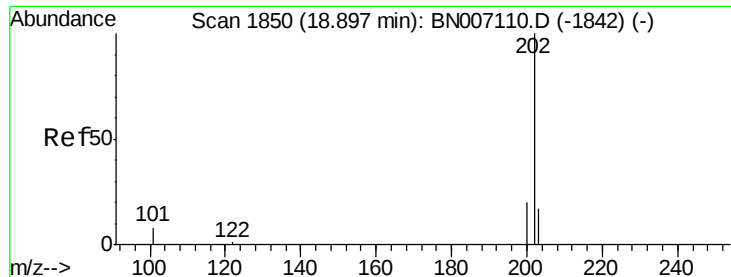


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 2.057 ng

RT: 18.90 min Scan# 1851

Delta R.T. -0.00 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW106-073119

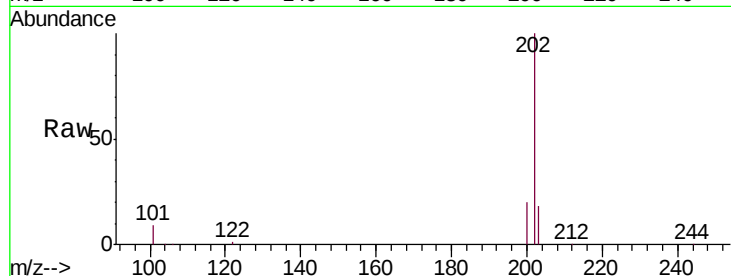
Tgt Ion:202 Resp: 393283

Ion Ratio Lower Upper

202 100

101 8.9 7.0 10.4

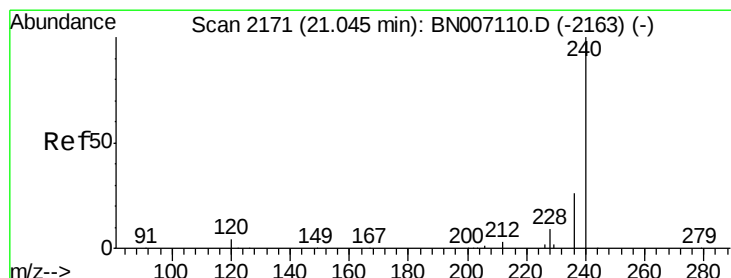
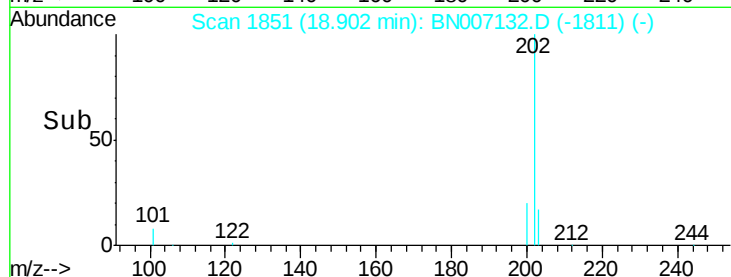
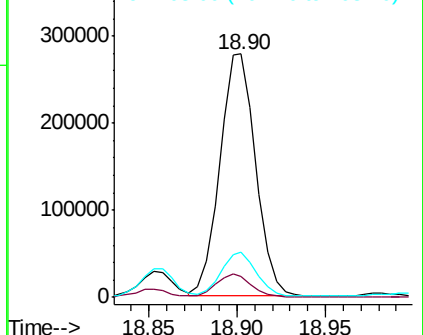
203 17.5 13.8 20.8



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: BN007132.D

Acq: 13 Aug 2019 15:19

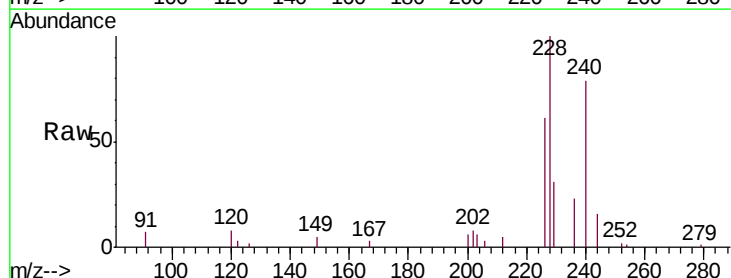
Tgt Ion:240 Resp: 48133

Ion Ratio Lower Upper

240 100

120 10.4 4.0 6.0#

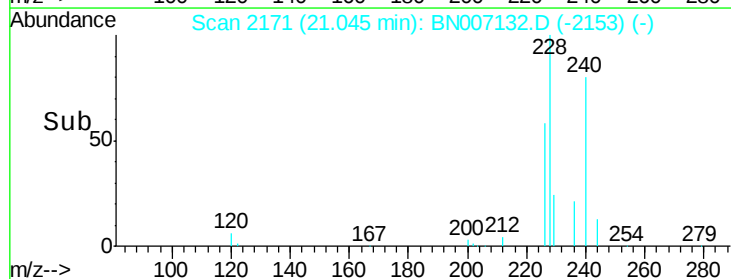
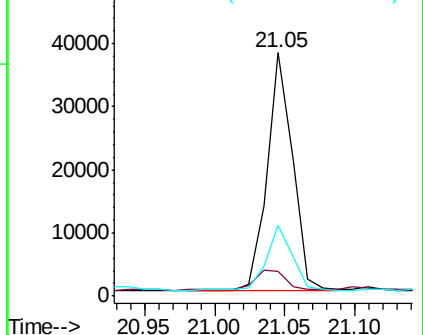
236 29.1 21.3 31.9



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

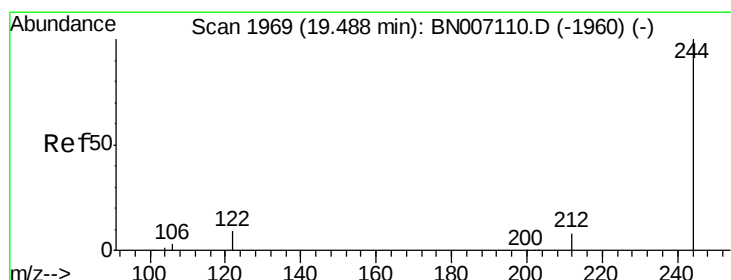
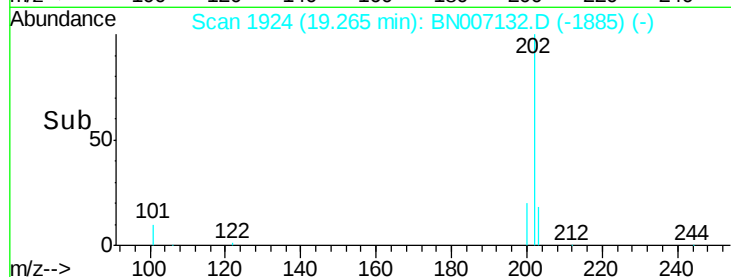
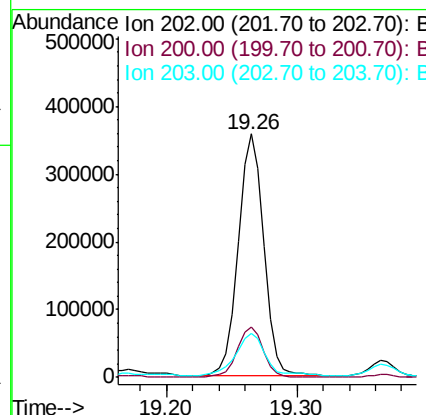
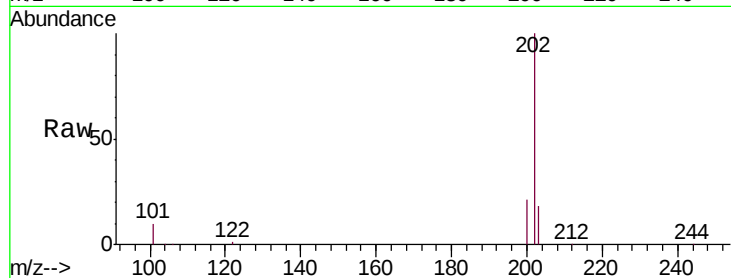




#27
 Pyrene
 Concen: 2.928 ng
 RT: 19.26 min Scan# 1924
 Delta R.T. -0.01 min
 Lab File: BN007132.D
 Acq: 13 Aug 2019 15:19

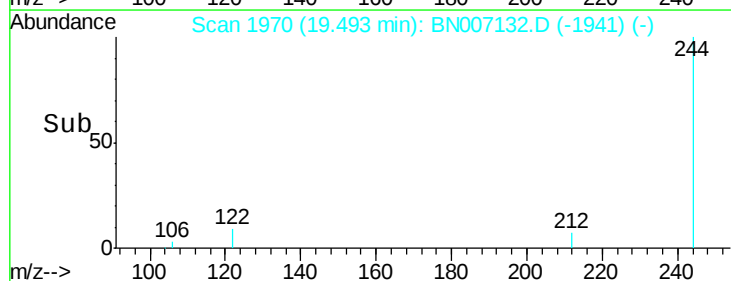
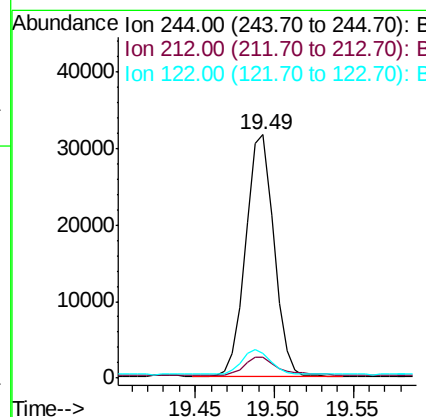
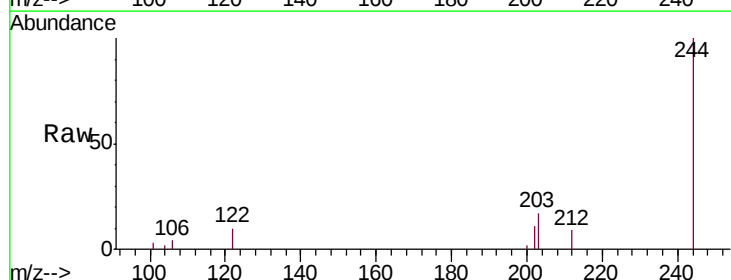
Instrument :
 BNA_N
 ClientSampleId :
 EXT-035-SW106-073119

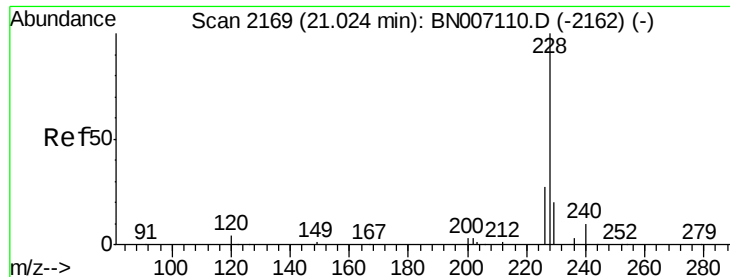
Tgt Ion:	202	Resp:	494172
Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.6	24.8
203	20.1	14.0	21.0



#28
 Terphenyl-d14
 Concen: 0.294 ng
 RT: 19.49 min Scan# 1970
 Delta R.T. -0.01 min
 Lab File: BN007132.D
 Acq: 13 Aug 2019 15:19

Tgt Ion:	244	Resp:	38611
Ion	Ratio	Lower	Upper
244	100		
212	8.8	6.2	9.2
122	10.1	7.4	11.2





#29

Benzo(a)anthracene

Concen: 1.648 ng m

RT: 21.03 min Scan# 2170

Delta R.T. -0.00 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW106-073119

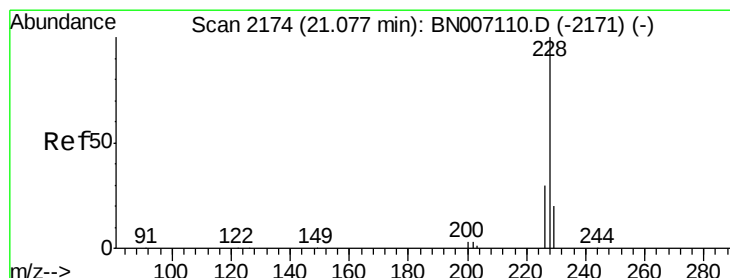
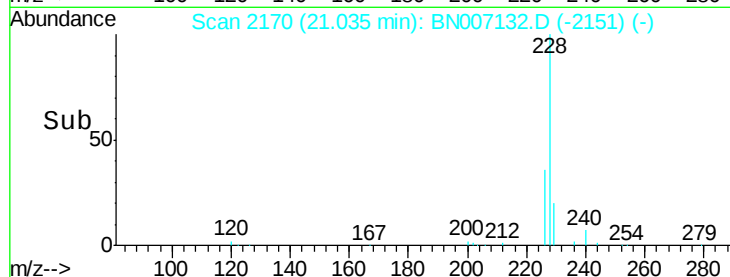
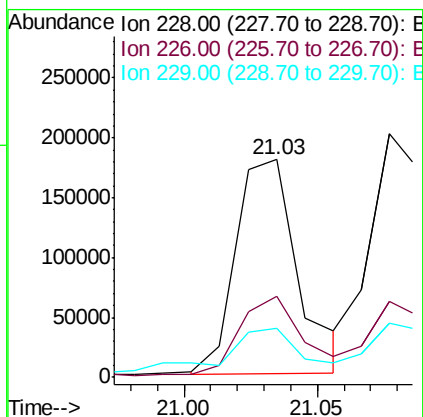
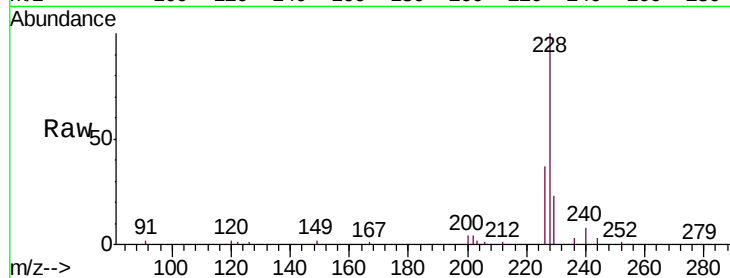
Tgt Ion:228 Resp: 290135

Ion Ratio Lower Upper

228 100

226 37.2 21.8 32.6#

229 22.8 15.6 23.4



#30

Chrysene

Concen: 1.775 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

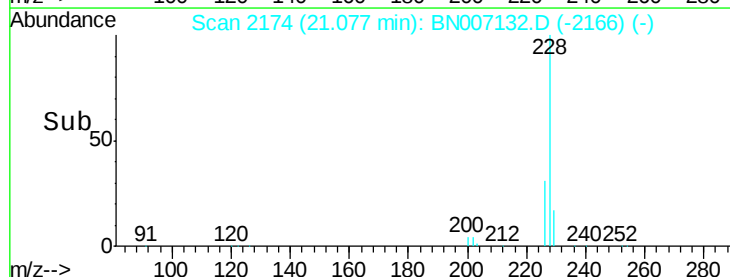
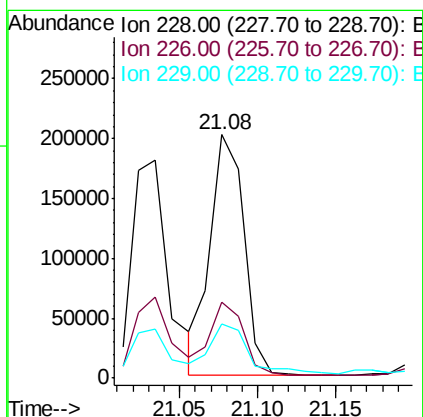
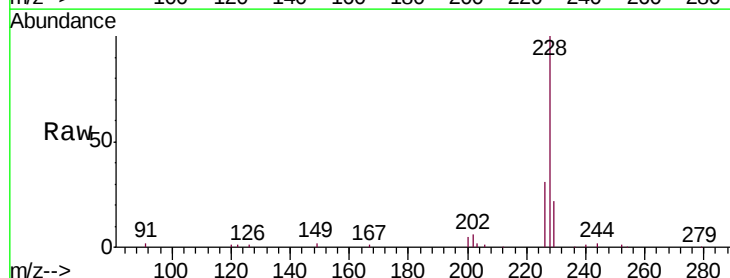
Tgt Ion:228 Resp: 303516

Ion Ratio Lower Upper

228 100

226 31.3 23.8 35.6

229 22.2 15.7 23.5





#31

Indeno(1,2,3-cd)pyrene

Concen: 0.806 ng

RT: 25.24 min Scan# 3128

Delta R.T. -0.01 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW106-073119

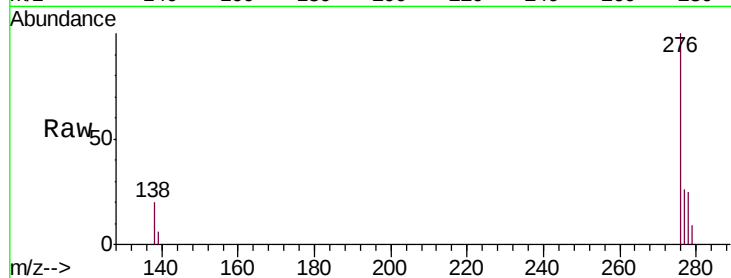
Tgt Ion:276 Resp: 151995

Ion Ratio Lower Upper

276 100

138 19.0 16.0 24.0

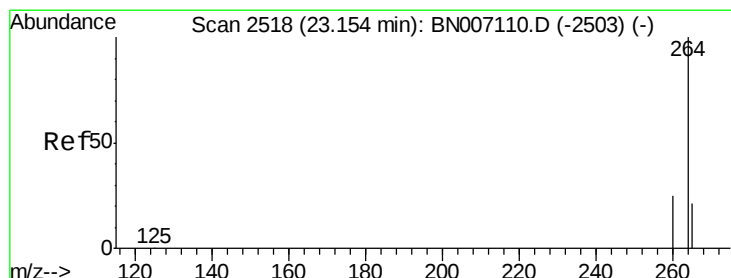
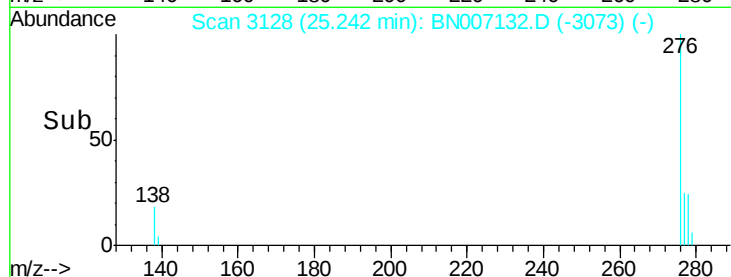
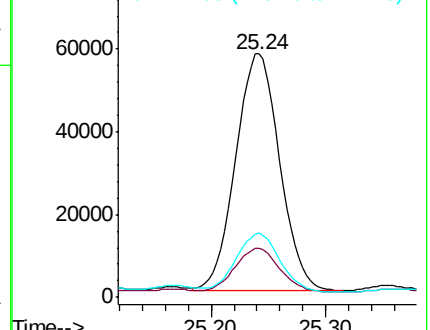
277 25.0 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#32

Perylene-d12

Concen: 0.400 ng

RT: 23.16 min Scan# 2520

Delta R.T. -0.01 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

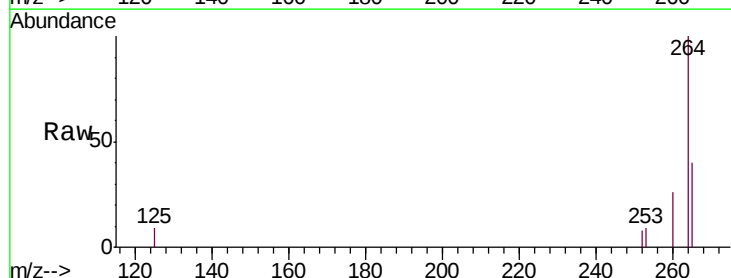
Tgt Ion:264 Resp: 54111

Ion Ratio Lower Upper

264 100

260 26.4 19.8 29.8

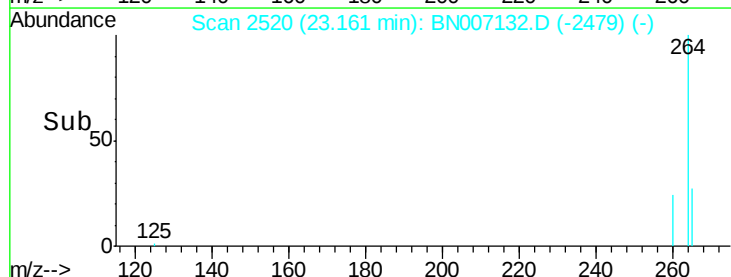
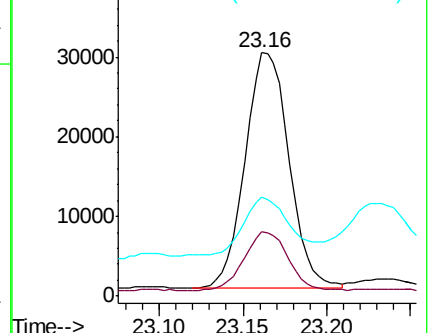
265 40.4 26.2 39.4#

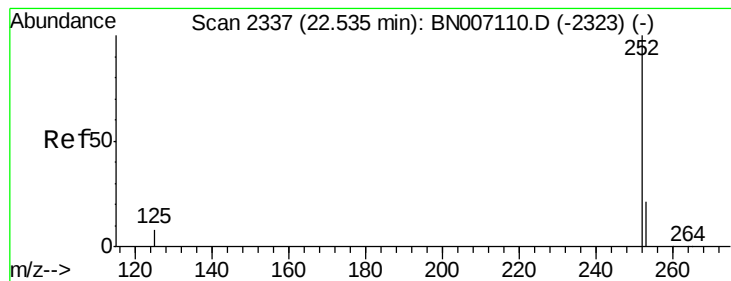


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 1.835 ng m

RT: 22.54 min Scan# 2340

Delta R.T. -0.00 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW106-073119

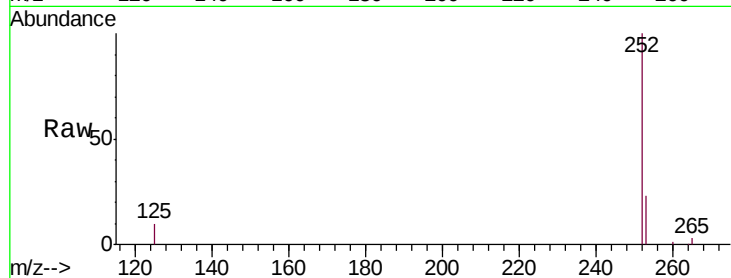
Tgt Ion:252 Resp: 340533

Ion Ratio Lower Upper

252 100

253 23.4 18.2 27.2

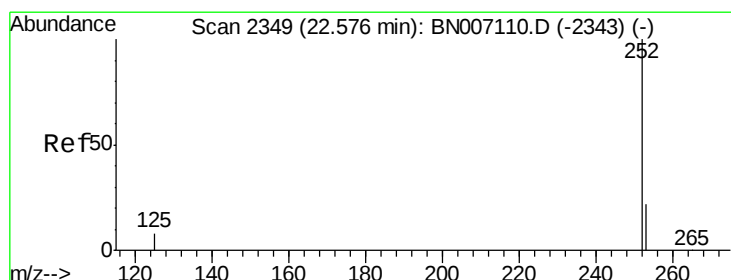
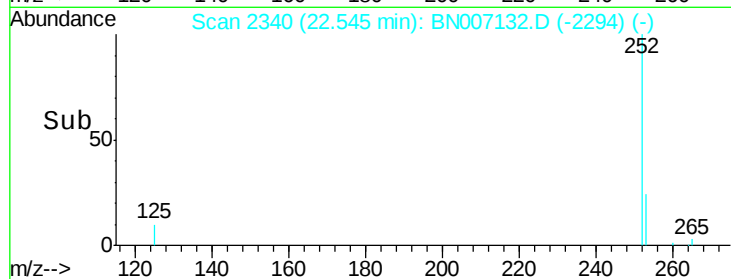
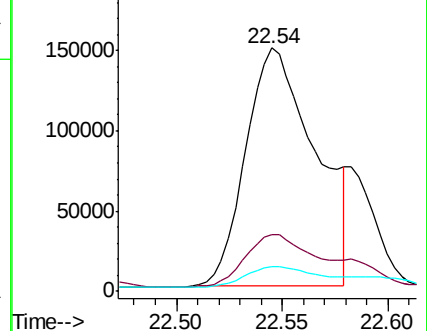
125 10.1 7.4 11.0



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: 0.450 ng m

RT: 22.58 min Scan# 2351

Delta R.T. -0.01 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

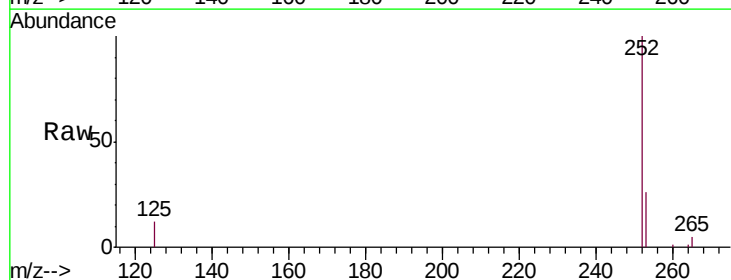
Tgt Ion:252 Resp: 82423

Ion Ratio Lower Upper

252 100

253 25.9 18.1 27.1

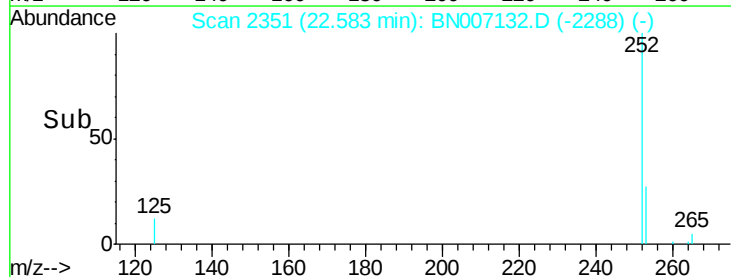
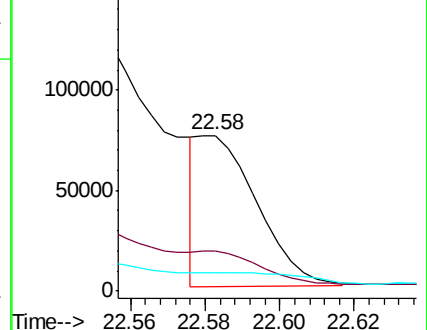
125 11.6 7.4 11.0#



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: 1.369 ng

RT: 23.07 min Scan# 2494

Delta R.T. -0.01 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW106-073119

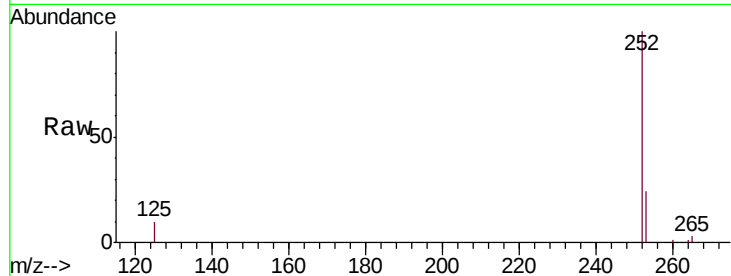
Tgt Ion:252 Resp: 230309

Ion Ratio Lower Upper

252 100

253 23.9 18.5 27.7

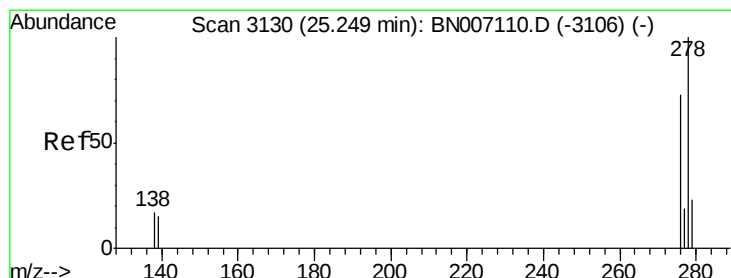
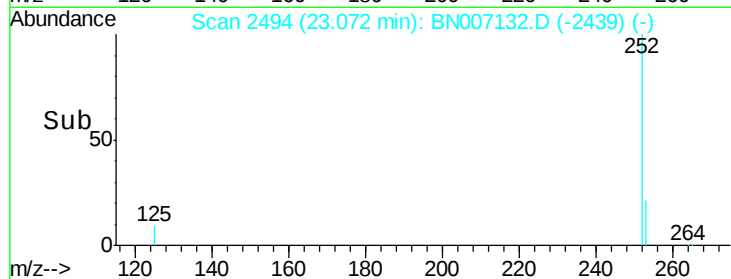
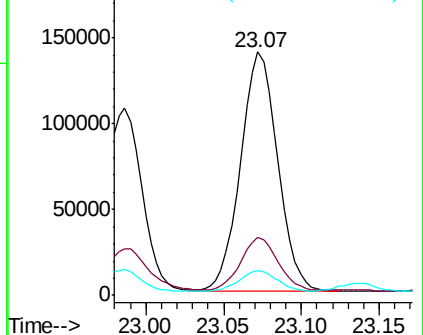
125 10.4 8.2 12.4



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: 0.276 ng

RT: 25.25 min Scan# 3131

Delta R.T. -0.02 min

Lab File: BN007132.D

Acq: 13 Aug 2019 15:19

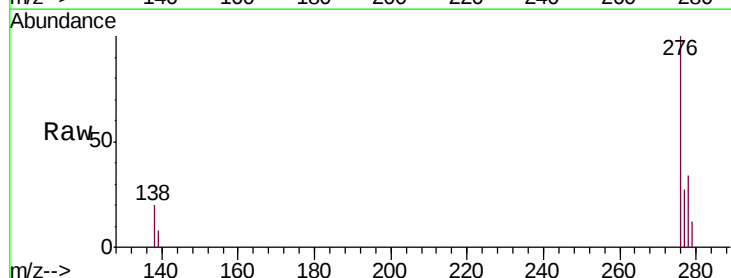
Tgt Ion:278 Resp: 46252

Ion Ratio Lower Upper

278 100

139 22.6 11.3 16.9#

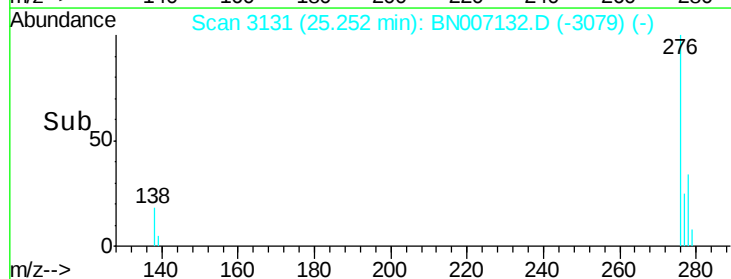
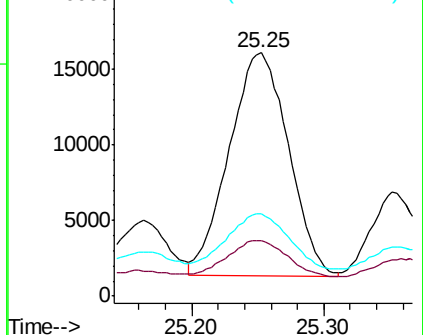
279 33.6 19.3 28.9#



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: 0.898 ng

RT: 25.87 min Scan# 3312

Delta R.T. -0.01 min

Lab File: BN007132.D

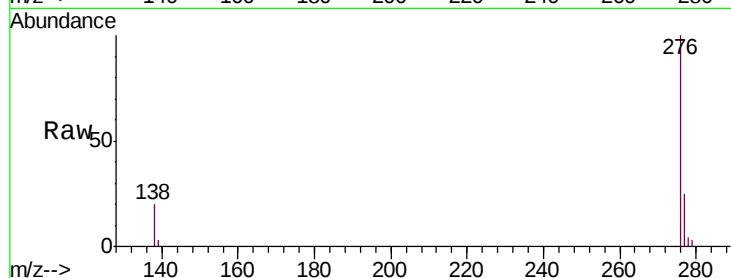
Acq: 13 Aug 2019 15:19

Instrument :

BNA_N

ClientSampleId :

EXT-035-SW106-073119



Tgt Ion: 276 Resp: 154965

Ion Ratio Lower Upper

276 100

277 25.5 19.8 29.8

138 19.8 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

