

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081519\
 Data File : BN007211.D
 Acq On : 15 Aug 2019 23:58
 Operator : HP/JU
 Sample : K4282-17
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 16 07:07:30 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	7228	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	27405	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	15487	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	36579	0.40	ng	0.00
26) Chrysene-d12	21.03	240	38531	0.40	ng	-0.02
32) Perylene-d12	23.15	264	42477	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.05	112	5389	0.31	ng	0.00
4) Phenol-d6	6.61	99	7191	0.33	ng	0.00
7) Nitrobenzene-d5	8.55	82	5162	0.23	ng	-0.01
10) 2-Methylnaphthalene-d10	11.79	152	10509	0.21	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1800	0.22	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	1238	0.05	ng	0.00
24) Fluoranthene-d10	18.86	212	19685	0.15	ng	-0.01
28) Terphenyl-d14	19.48	244	13629	0.13	ng	-0.02

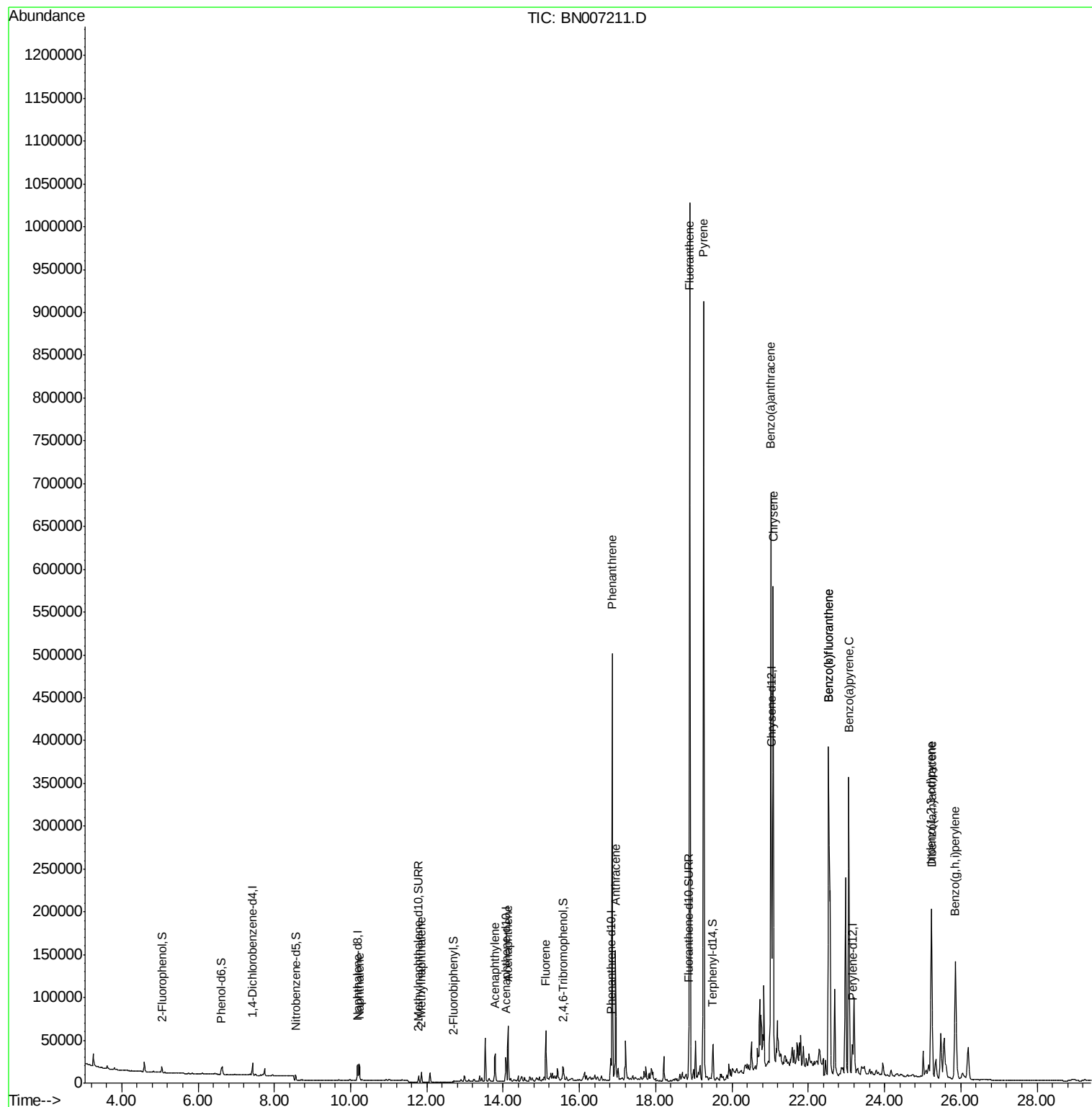
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.22	128	26534	0.345	ng	100
11) 2-Methylnaphthalene	11.86	142	8458	0.155	ng	95
15) Acenaphthylene	13.79	152	40705	0.503	ng	99
16) Acenaphthene	14.13	154	32204	0.621	ng	99
17) Fluorene	15.12	166	34657	0.447	ng	97
22) Phenanthrene	16.86	178	564209	5.147	ng	100
23) Anthracene	16.95	178	147610	1.474	ng	# 93
25) Fluoranthene	18.89	202	943396	6.727	ng	100
27) Pyrene	19.26	202	839950	6.216	ng	# 95
29) Benzo(a)anthracene	21.02	228	559679	3.972	ng	94
30) Chrysene	21.08	228	473957	3.462	ng	96
31) Indeno(1,2,3-cd)pyrene	25.23	276	298021	1.975	ng	98
33) Benzo(b)fluoranthene	22.53	252	640693	4.399	ng	99
34) Benzo(k)fluoranthene	22.53	252	640693	4.454	ng	99
35) Benzo(a)pyrene	23.07	252	448047	3.393	ng	99
36) Dibenzo(a,h)anthracene	25.24	278	83256	0.632	ng	93
37) Benzo(a,h,i)perylene	25.86	276	268945	1.984	ng	99

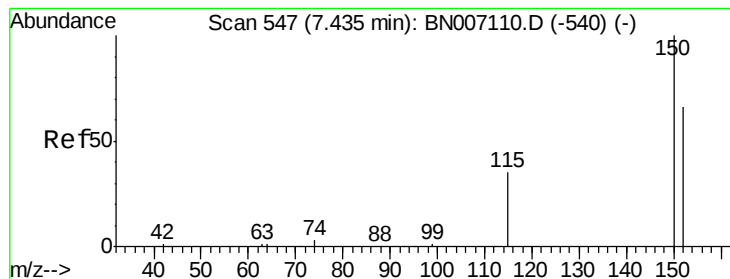
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081519\
Data File : BN007211.D
Acq On : 15 Aug 2019 23:58
Operator : HP/JU
Sample : K4282-17
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :

Quant Time: Aug 16 07:07:30 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



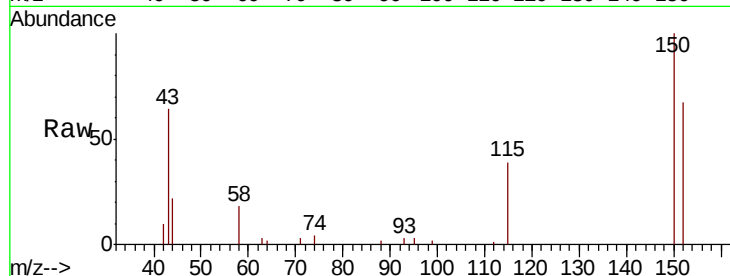


#1

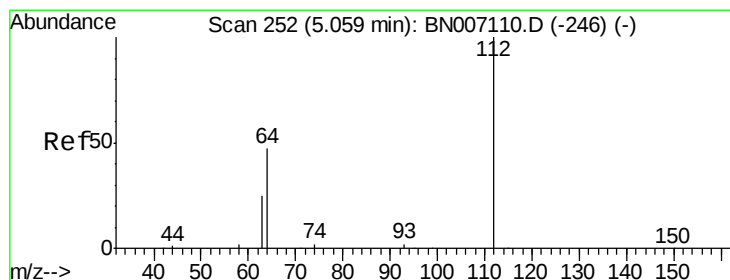
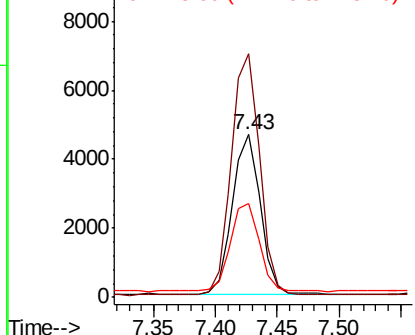
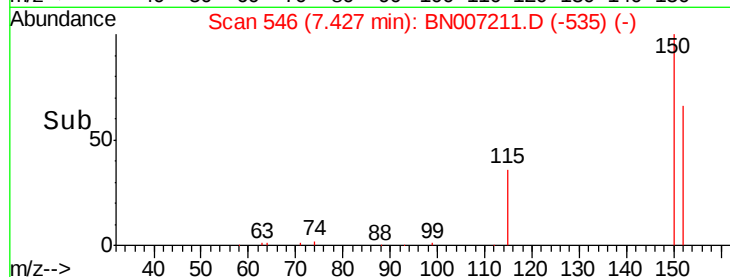
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007211.D
Acq: 15 Aug 2019 23:58

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 7228
Ion Ratio Lower Upper
152 100
150 149.5 121.7 182.5
115 57.8 46.2 69.4



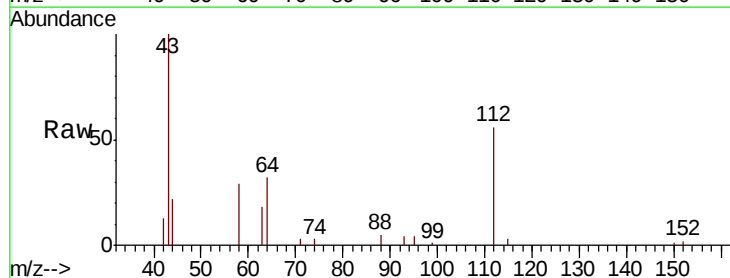
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



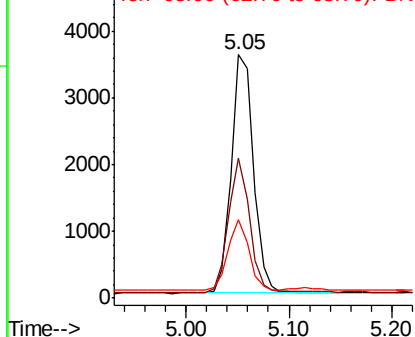
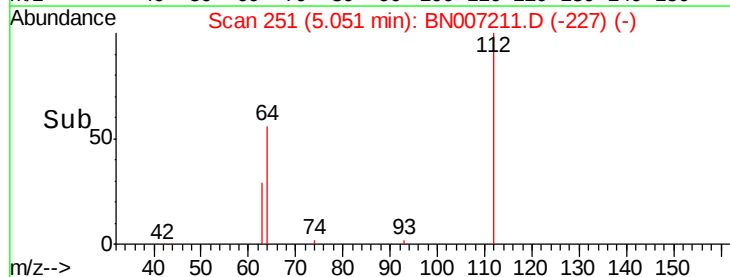
#3

2-Fluorophenol
Concen: 0.310 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007211.D
Acq: 15 Aug 2019 23:58

Tgt Ion:112 Resp: 5389
Ion Ratio Lower Upper
112 100
64 53.2 42.6 63.8
63 27.4 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: 0.334 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

Instrument :

BNA_N

ClientSampleId :

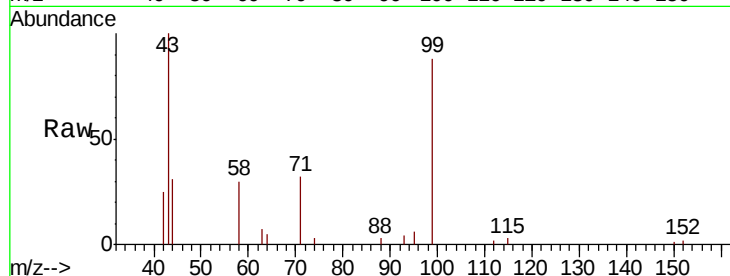
Tot Ion: 99 Resp: 7191

Ion Ratio Lower Upper

99 100

42 25.5 15.8 23.6#

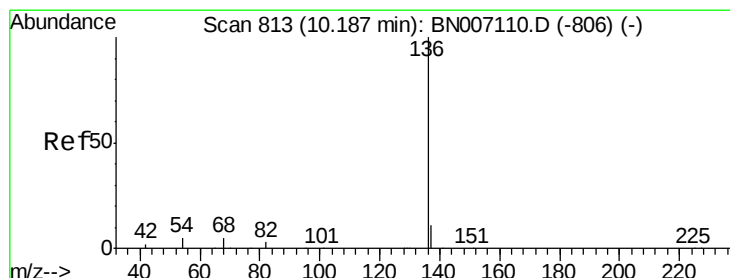
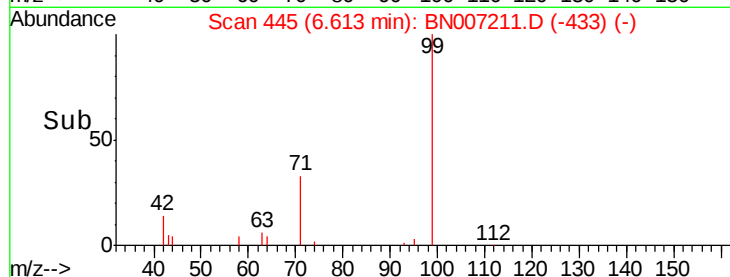
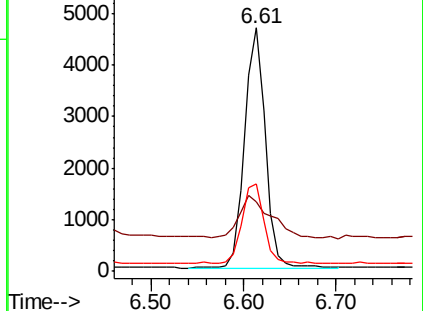
71 35.0 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007211.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007211.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007211.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

Tgt Ion: 136 Resp: 27405

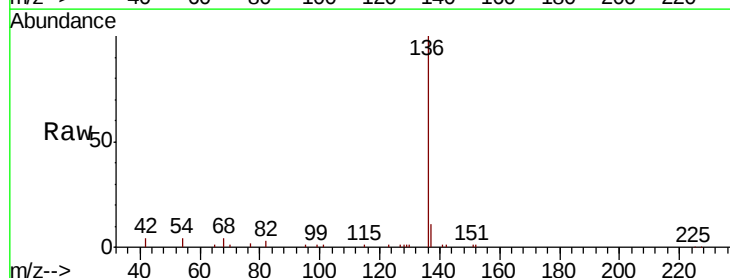
Ion Ratio Lower Upper

136 100

137 11.4 9.4 14.0

54 4.4 6.6 9.8#

68 4.3 6.0 9.0#

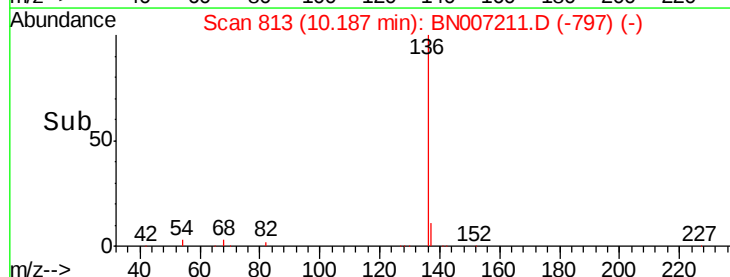
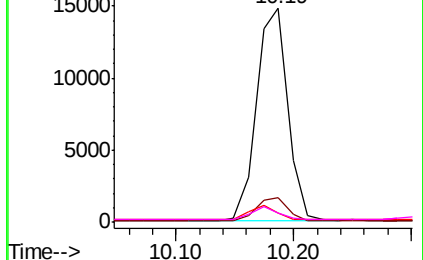


Abundance Ion 136.00 (135.70 to 136.70): BN007211.D (-797) (-)

Ion 137.00 (136.70 to 137.70): BN007211.D (-797) (-)

Ion 54.00 (53.70 to 54.70): BN007211.D (-797) (-)

Ion 68.00 (67.70 to 68.70): BN007211.D (-797) (-)





#7

Nitrobenzene-d5

Concen: 0.234 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

Instrument :

BNA_N

ClientSampleId :

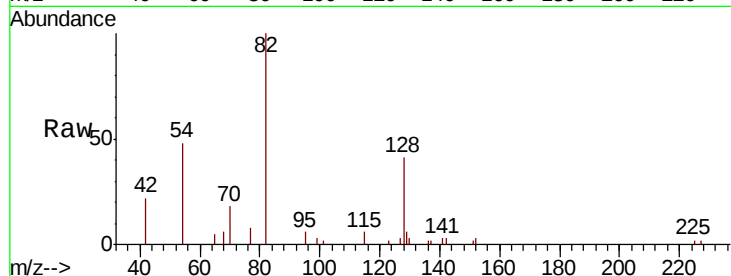
Tot Ion: 82 Resp: 5162

Ion Ratio Lower Upper

82 100

128 41.1 34.6 51.8

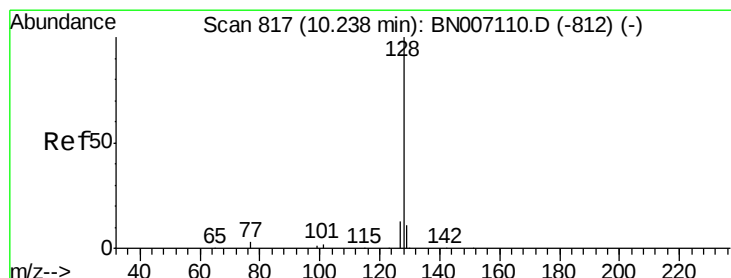
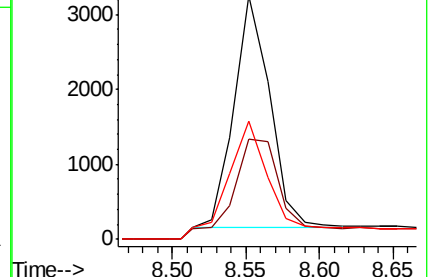
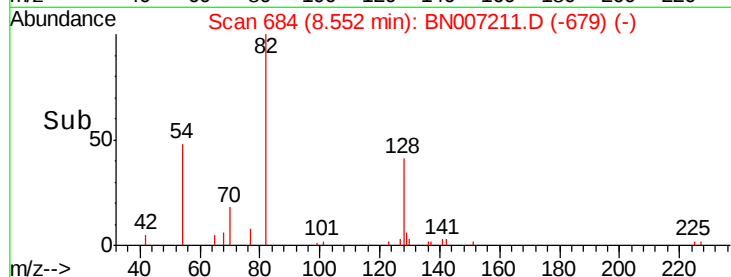
54 48.5 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007211.D (-681) (-)

Ion 128.00 (127.70 to 128.70): BN007211.D (-681) (-)

Ion 54.00 (53.70 to 54.70): BN007211.D (-681) (-)



#8

Naphthalene

Concen: 0.345 ng

RT: 10.22 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

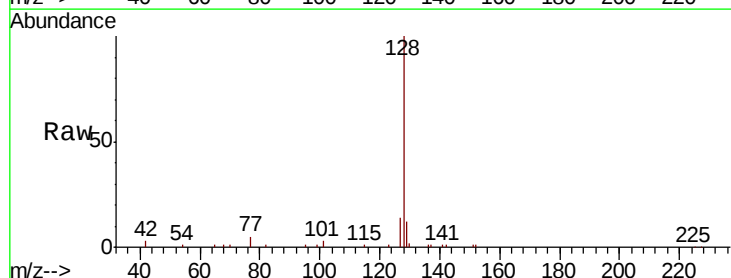
Tgt Ion: 128 Resp: 26534

Ion Ratio Lower Upper

128 100

129 11.7 9.4 14.2

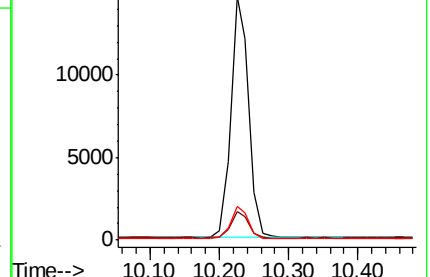
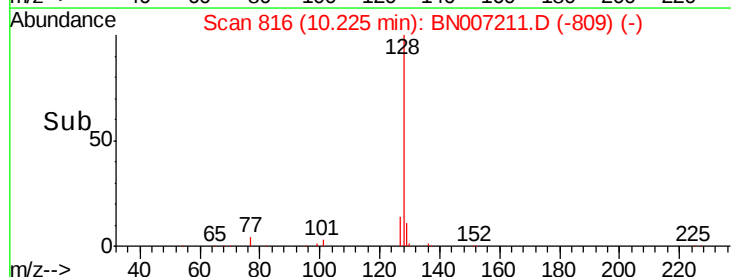
127 14.1 11.0 16.6



Abundance Ion 128.00 (127.70 to 128.70): BN007211.D (-812) (-)

Ion 129.00 (128.70 to 129.70): BN007211.D (-812) (-)

Ion 127.00 (126.70 to 127.70): BN007211.D (-812) (-)





#10

2-Methylnaphthalene-d10

Concen: 0.206 ng

RT: 11.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

Instrument :

BNA_N

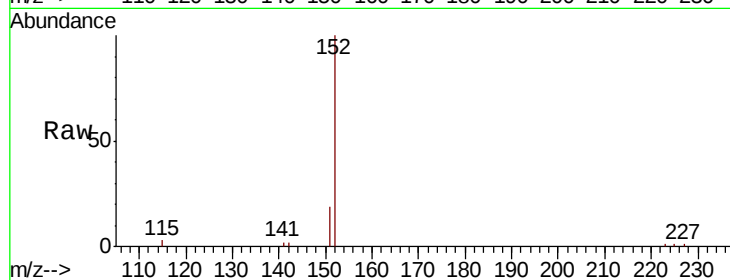
ClientSampleId :

Tot Ion:152 Resp: 10509

Ion Ratio Lower Upper

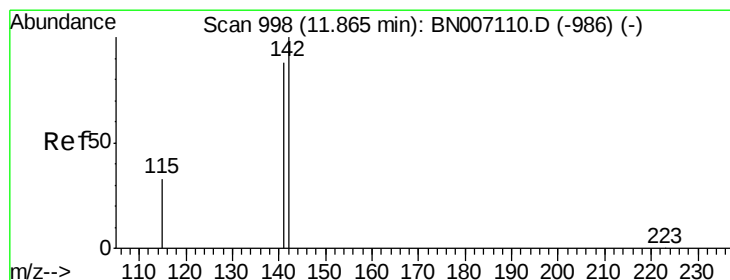
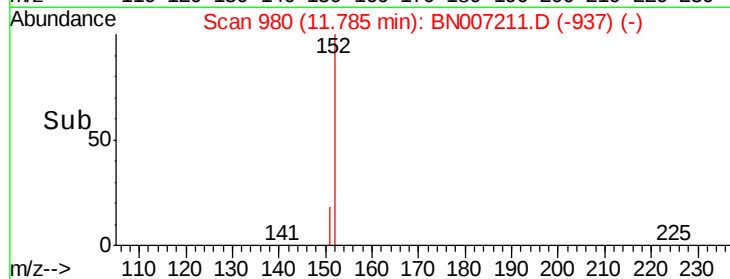
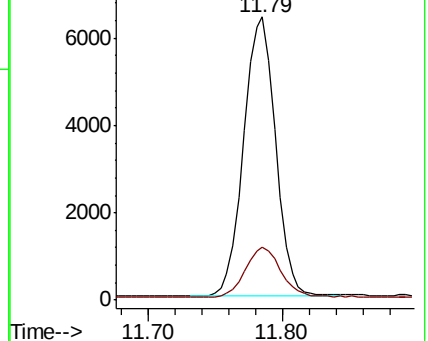
152 100

151 19.6 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: 0.155 ng

RT: 11.86 min Scan# 996

Delta R.T. -0.01 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

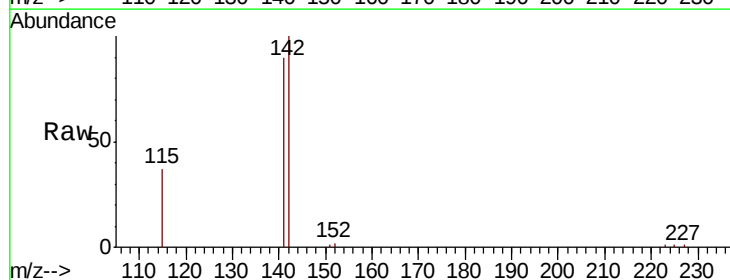
Tgt Ion:142 Resp: 8458

Ion Ratio Lower Upper

142 100

141 90.1 69.0 103.6

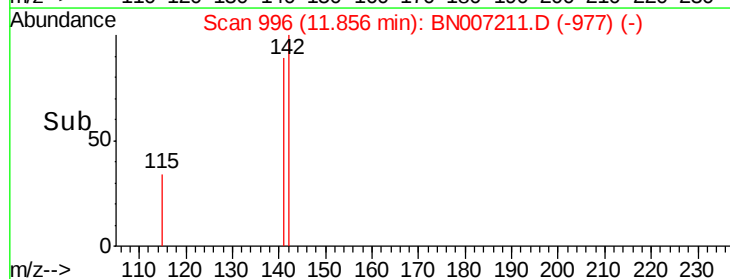
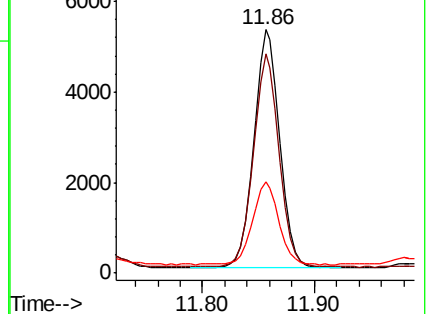
115 37.3 27.1 40.7



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: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

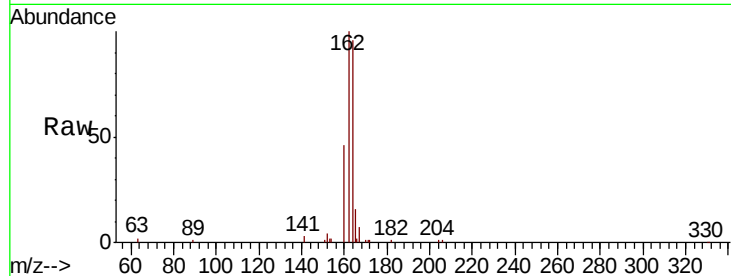
Instrument :

BNA_N

ClientSampleId :

Tot Ion:164 Resp: 15487

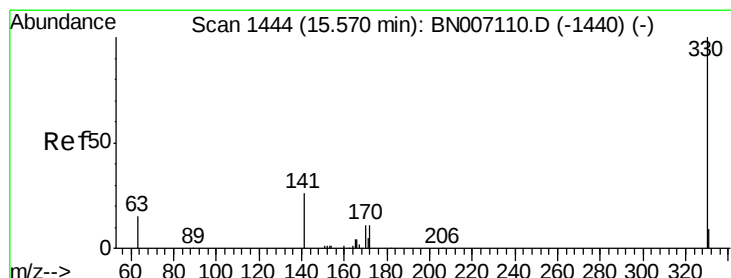
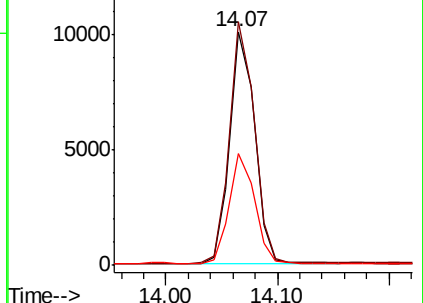
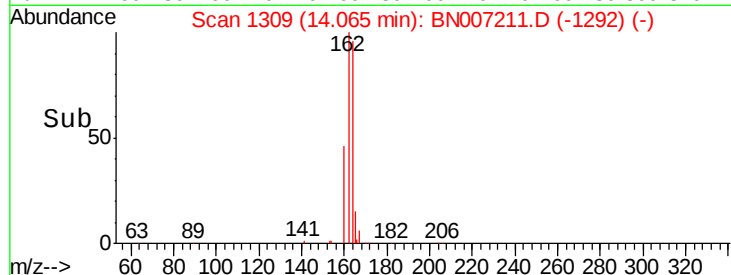
Ion	Ratio	Lower	Upper
164	100		
162	104.0	82.2	123.4
160	48.0	38.3	57.5



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: 0.216 ng

RT: 15.57 min Scan# 1444

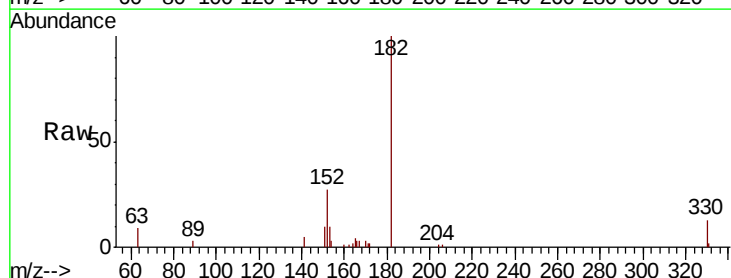
Delta R.T. -0.00 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

Tgt Ion:330 Resp: 1800

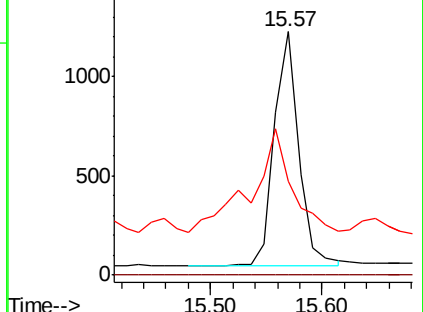
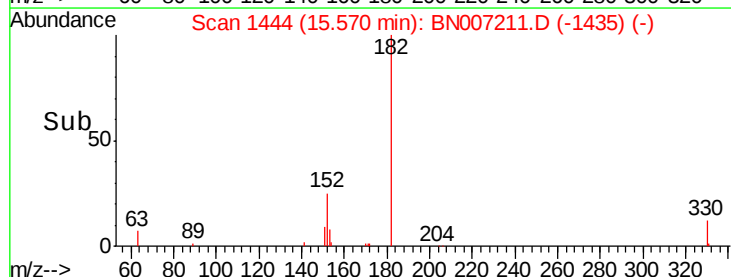
Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	73.5	33.6	50.4#

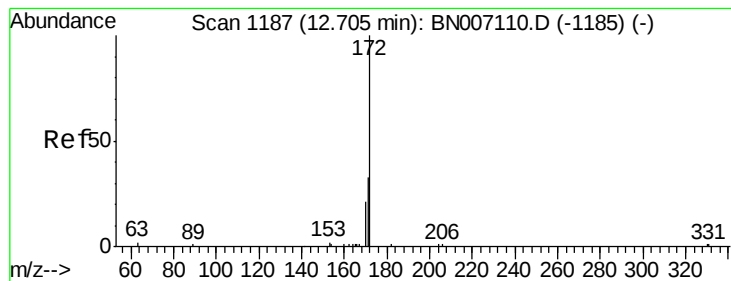


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

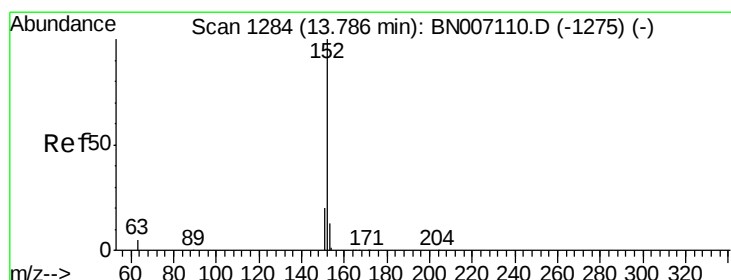
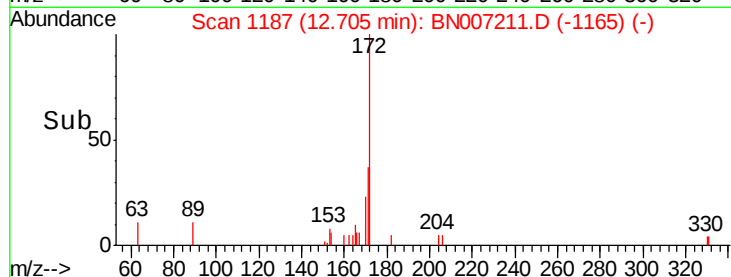
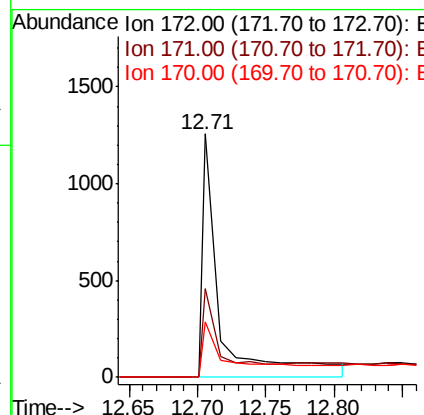
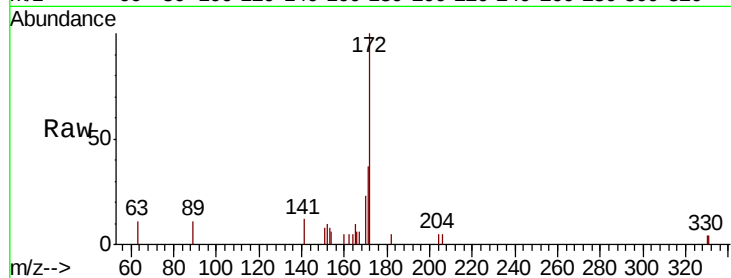




#14
2-Fluorobiphenyl
Concen: 0.055 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007211.D
Acq: 15 Aug 2019 23:58

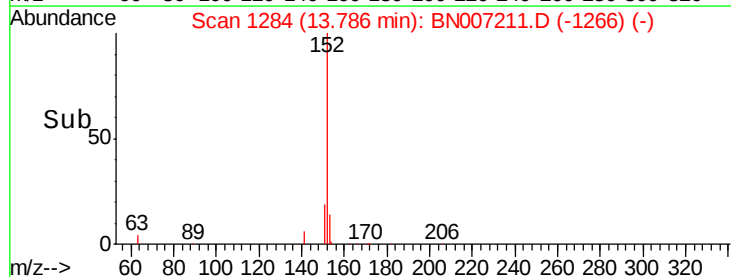
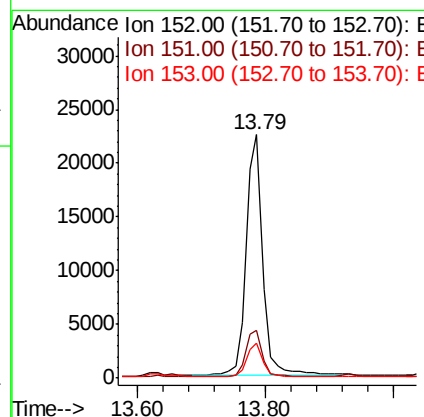
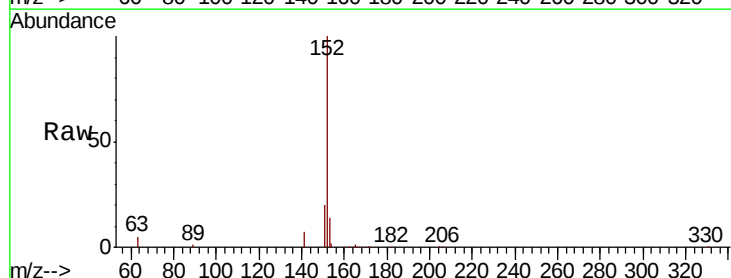
Instrument :
BNA_N
ClientSampleId :

Tot Ion:172 Resp: 1238
Ion Ratio Lower Upper
172 100
171 36.6 26.3 39.5
170 22.7 17.0 25.4



#15
Acenaphthylene
Concen: 0.503 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007211.D
Acq: 15 Aug 2019 23:58

Tgt Ion:152 Resp: 40705
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.6
153 13.6 10.4 15.6





#16

Acenaphthene

Concen: 0.621 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

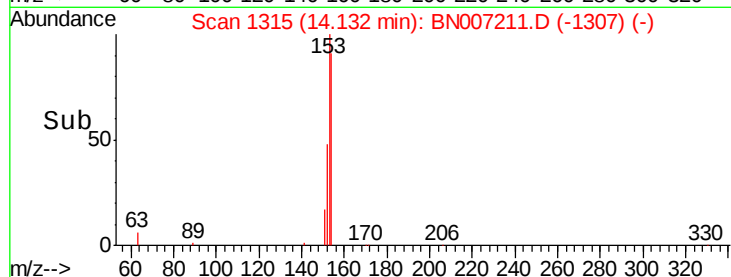
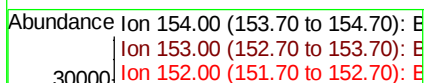
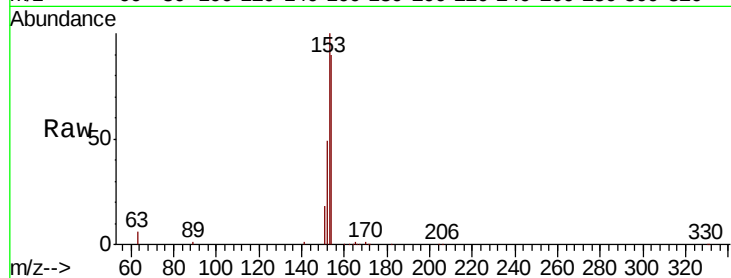
Instrument :

BNA_N

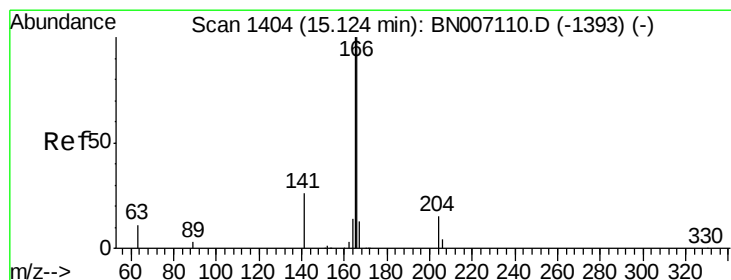
ClientSampleId :

Tot Ion:154 Resp: 32204

Ion	Ratio	Lower	Upper
154	100		
153	112.5	89.5	134.3
152	56.8	44.8	67.2



Time-->



#17

Fluorene

Concen: 0.447 ng

RT: 15.12 min Scan# 1404

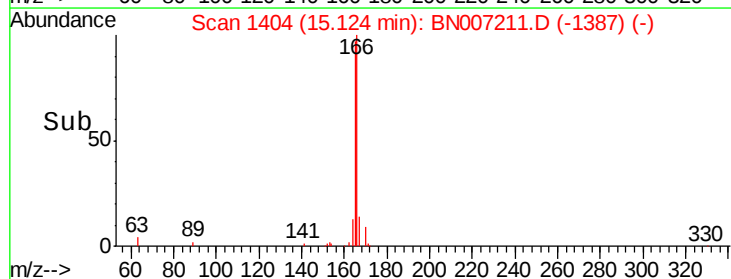
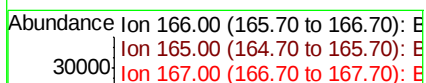
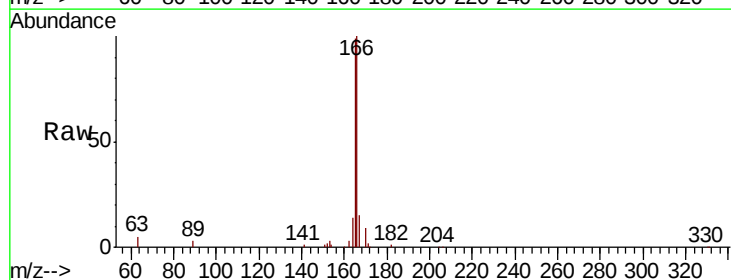
Delta R.T. -0.01 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

Tgt Ion:166 Resp: 34657

Ion	Ratio	Lower	Upper
166	100		
165	100.1	77.9	116.9
167	16.1	10.9	16.3



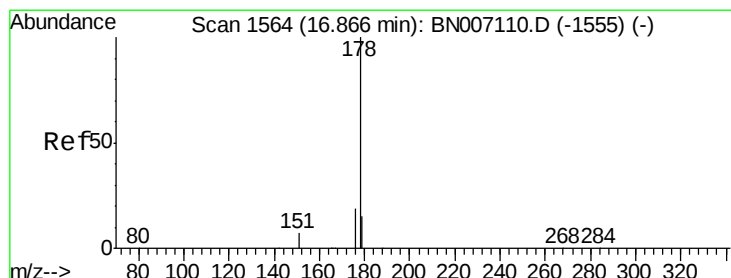
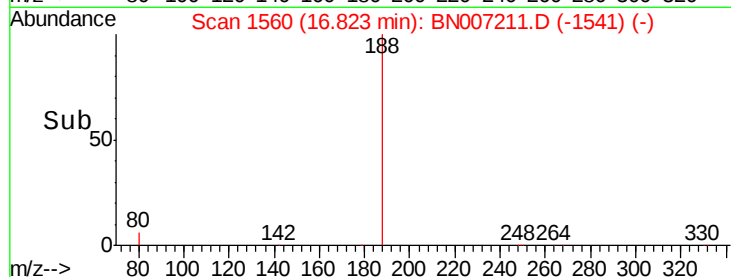
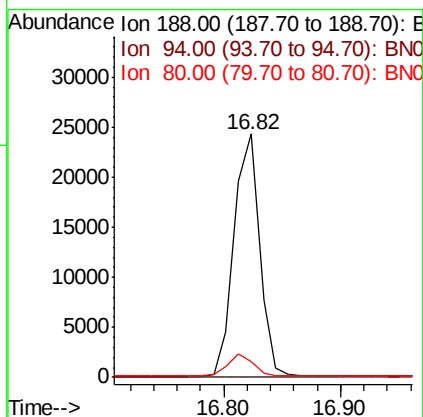
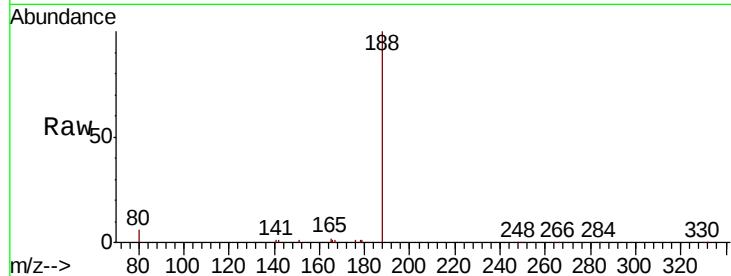
Time-->



#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007211.D
Acq: 15 Aug 2019 23:58

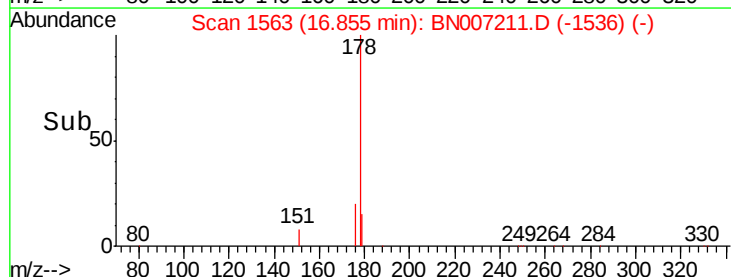
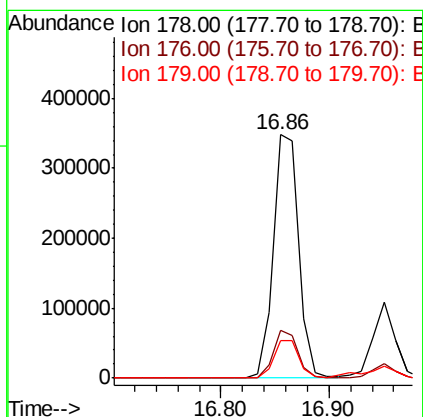
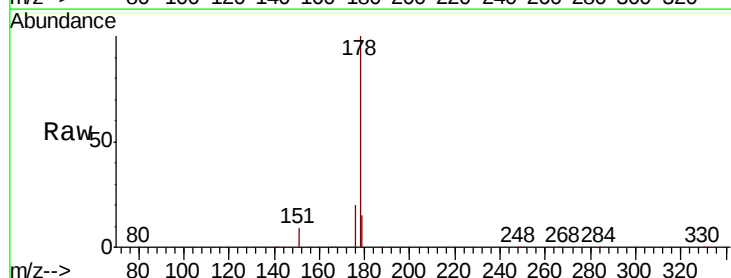
Instrument :
BNA_N
ClientSampleId :

Tot Ion:188 Resp: 36579
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.5 7.8 11.6#



#22
Phenanthrene
Concen: 5.147 ng
RT: 16.86 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BN007211.D
Acq: 15 Aug 2019 23:58

Tgt Ion:178 Resp: 564209
Ion Ratio Lower Upper
178 100
176 18.9 15.2 22.8
179 15.5 12.3 18.5





#23

Anthracene

Concen: 1.474 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

Instrument :

BNA_N

ClientSampleId :

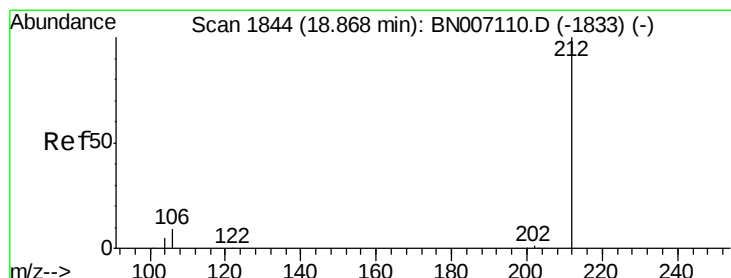
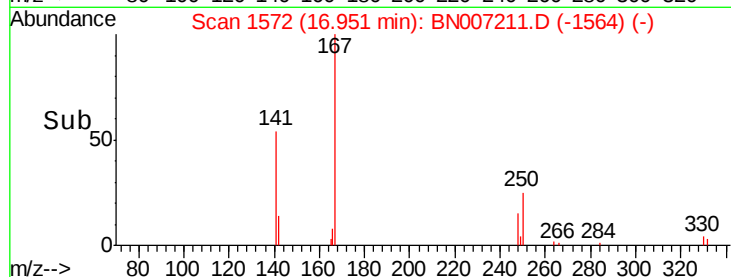
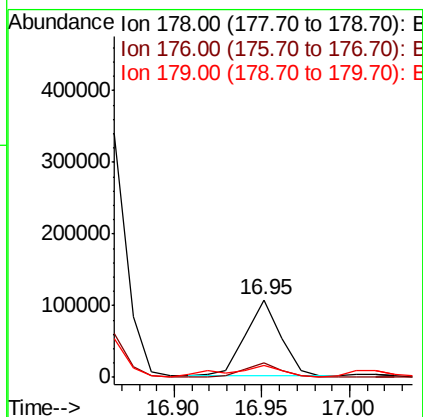
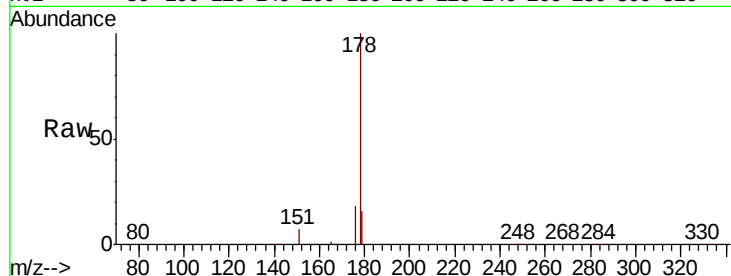
Tot Ion:178 Resp: 147610

Ion Ratio Lower Upper

178 100

176 18.4 14.6 21.8

179 22.1 12.5 18.7#



#24

Fluoranthene-d10

Concen: 0.152 ng

RT: 18.86 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

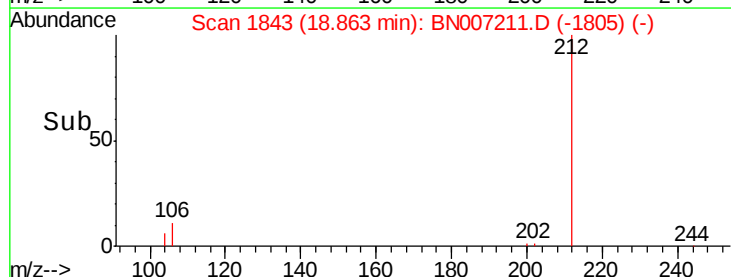
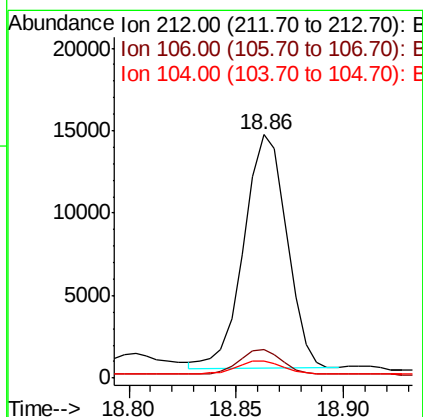
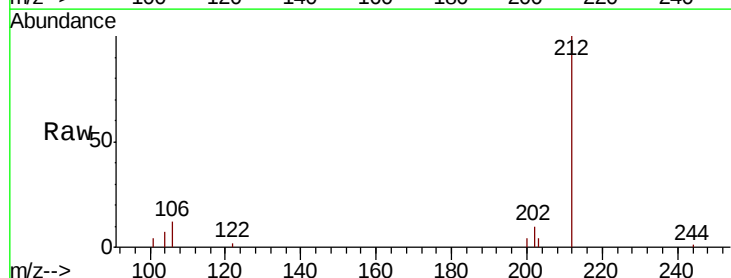
Tgt Ion:212 Resp: 19685

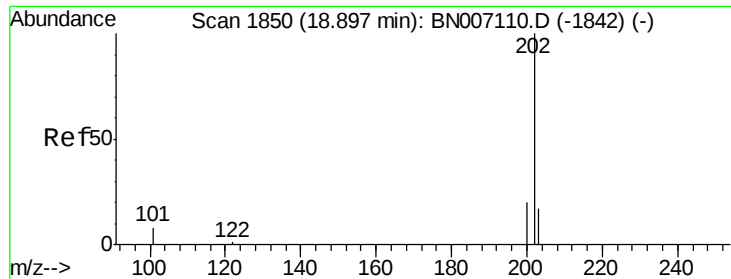
Ion Ratio Lower Upper

212 100

106 10.7 8.2 12.2

104 6.5 4.5 6.7





#25

Fluoranthene

Concen: 6.727 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

Instrument :

BNA_N

ClientSampleId :

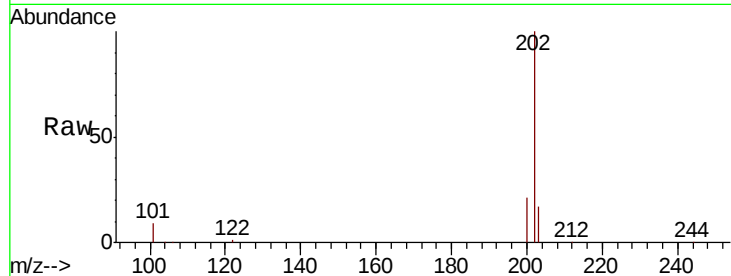
Tot Ion:202 Resp: 943396

Ion Ratio Lower Upper

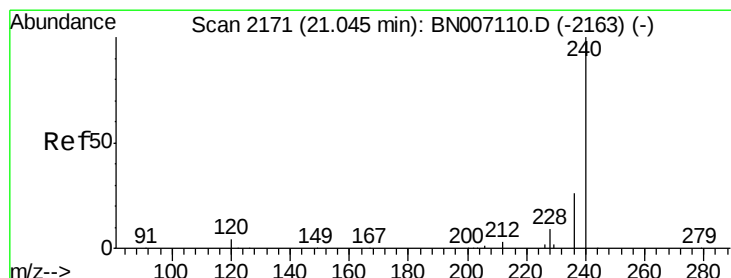
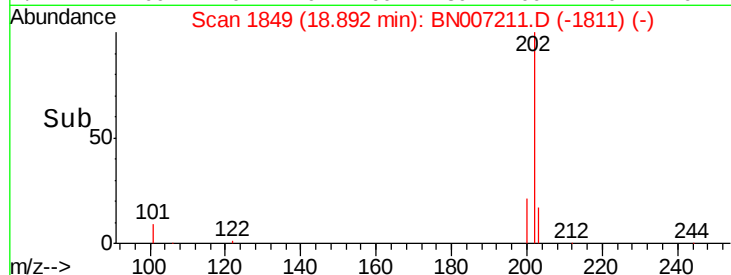
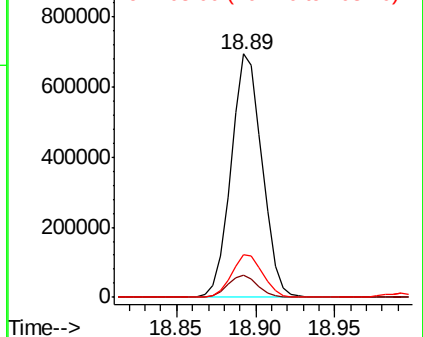
202 100

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: 21.03 min Scan# 2170

Delta R.T. -0.02 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

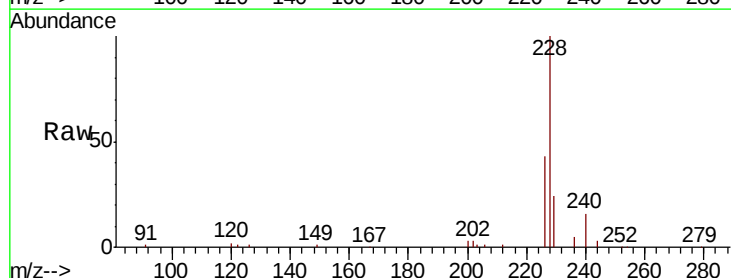
Tgt Ion:240 Resp: 38531

Ion Ratio Lower Upper

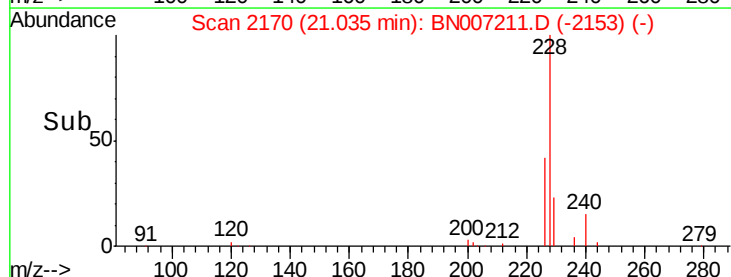
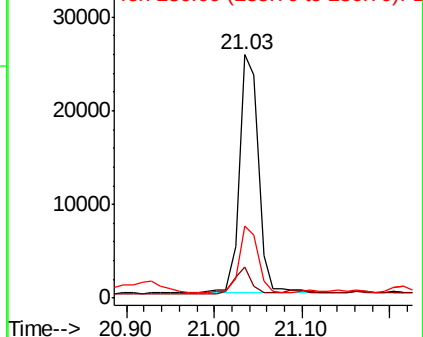
240 100

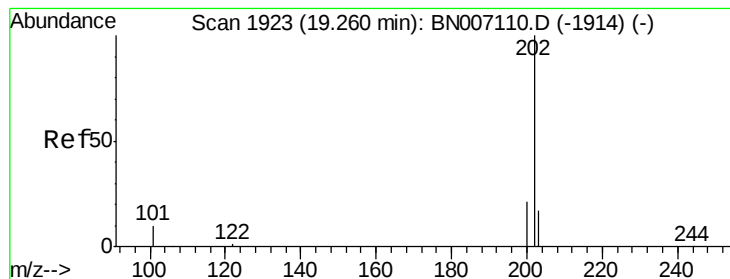
120 12.7 4.0 6.0#

236 29.6 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: 6.216 ng

RT: 19.26 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

Instrument :

BNA_N

ClientSampleId :

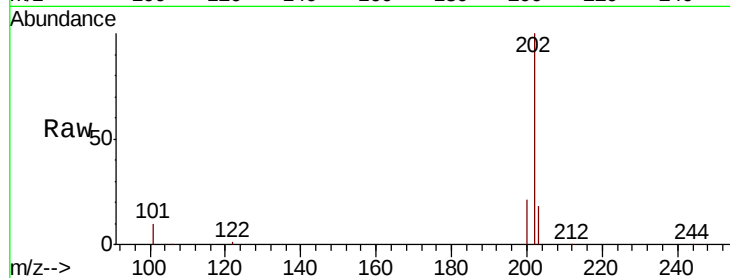
Tot Ion:202 Resp: 839950

Ion Ratio Lower Upper

202 100

200 20.9 16.6 24.8

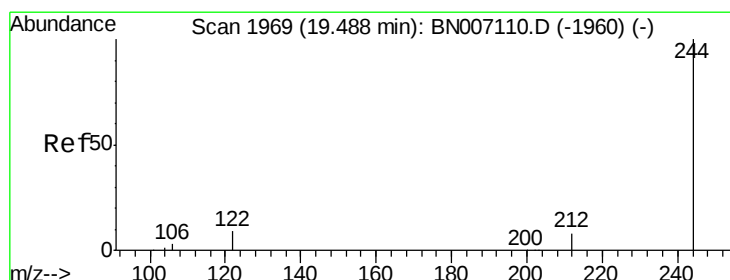
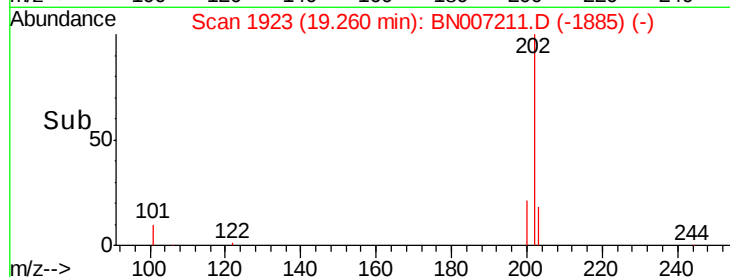
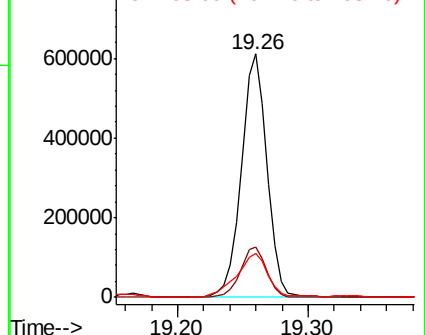
203 22.2 14.0 21.0#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#28

Terphenyl-d14

Concen: 0.130 ng

RT: 19.48 min Scan# 1968

Delta R.T. -0.02 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

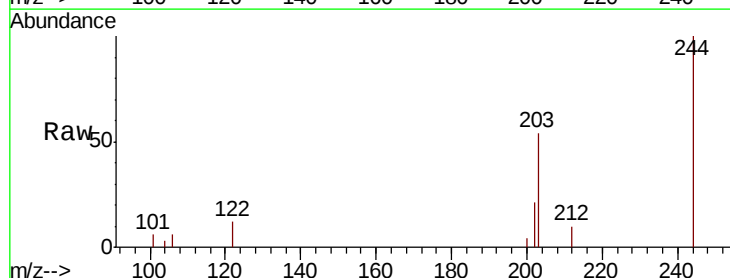
Tgt Ion:244 Resp: 13629

Ion Ratio Lower Upper

244 100

212 9.7 6.2 9.2#

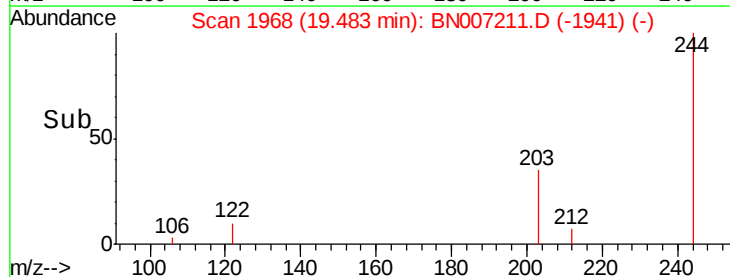
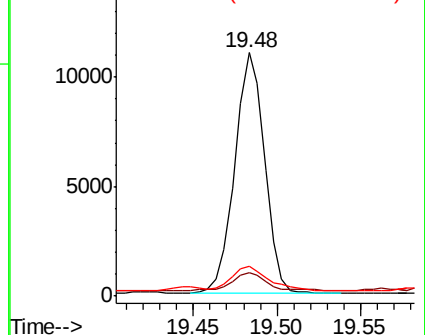
122 12.3 7.4 11.2#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#29

Benzo(a)anthracene

Concen: 3.972 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

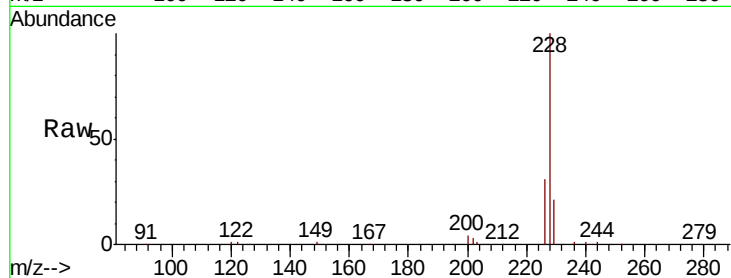
Instrument :

BNA_N

ClientSampleId :

Tot Ion:228 Resp: 559679

Ion	Ratio	Lower	Upper
228	100		
226	31.2	21.8	32.6
229	20.9	15.6	23.4

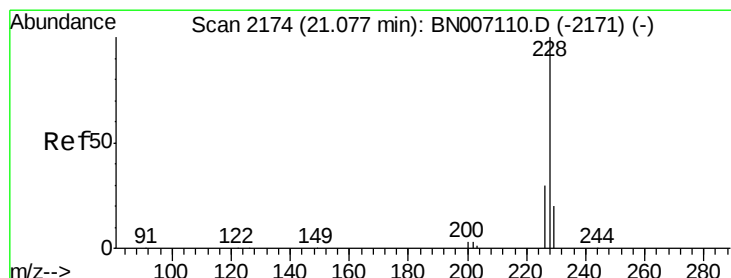
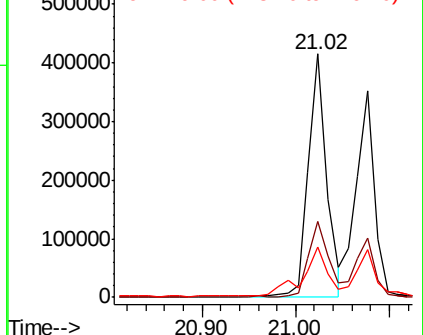
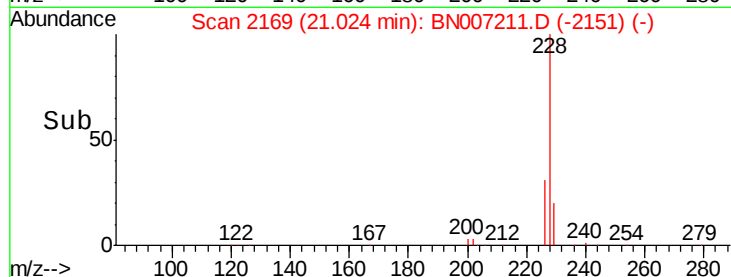


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#30

Chrysene

Concen: 3.462 ng

RT: 21.08 min Scan# 2174

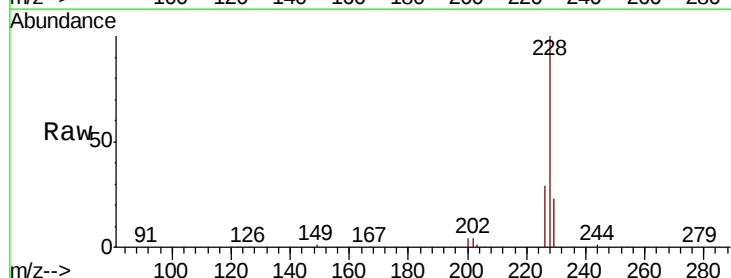
Delta R.T. -0.01 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

Tgt Ion:228 Resp: 473957

Ion	Ratio	Lower	Upper
228	100		
226	29.0	23.8	35.6
229	23.0	15.7	23.5

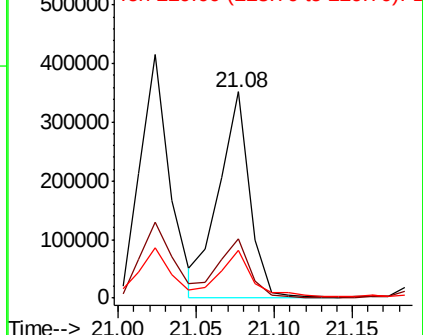
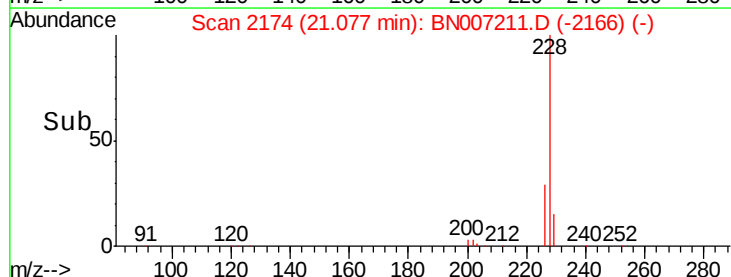


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

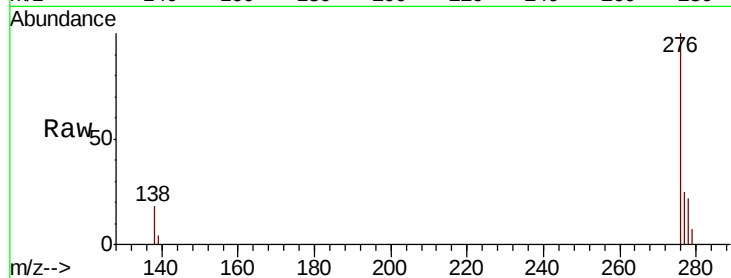




#31
 Indeno(1,2,3-cd)pyrene
 Concen: 1.975 ng
 RT: 25.23 min Scan# 3124
 Delta R.T. -0.02 min
 Lab File: BN007211.D
 Acq: 15 Aug 2019 23:58

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.5	16.0	24.0
277	25.1	19.9	29.9

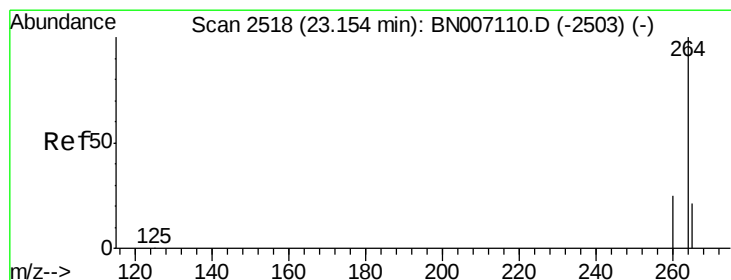
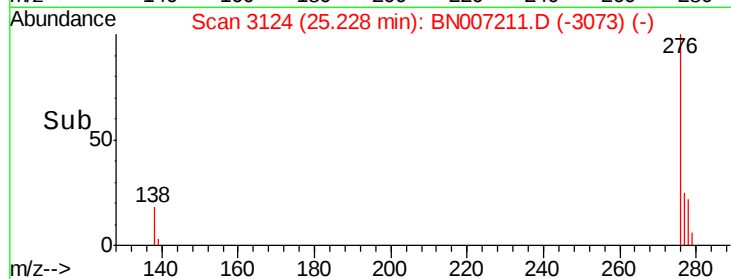
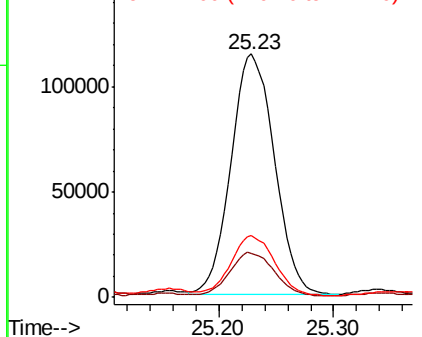


Abundance

Ion 276.00 (275.70 to 276.70): E

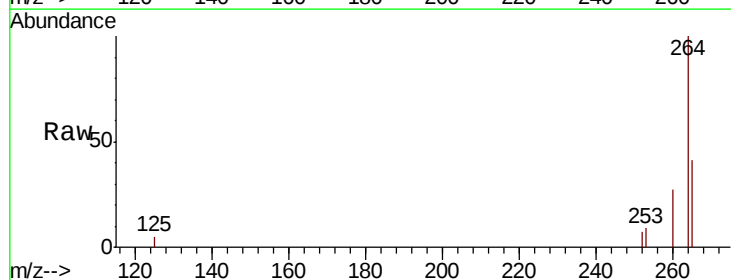
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2518
 Delta R.T. -0.02 min
 Lab File: BN007211.D
 Acq: 15 Aug 2019 23:58

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.9	19.8	29.8
265	40.5	26.2	39.4

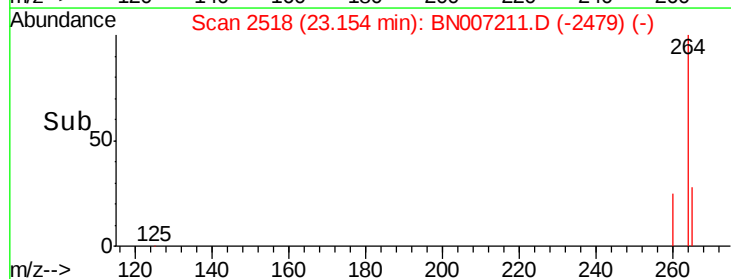
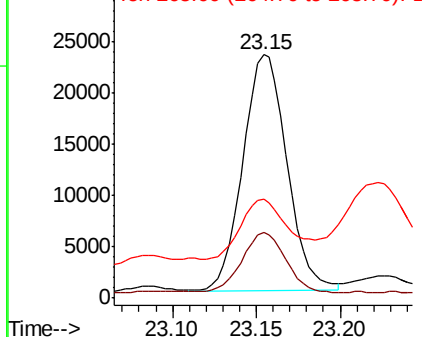


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 4.399 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

Instrument :

BNA_N

ClientSampleId :

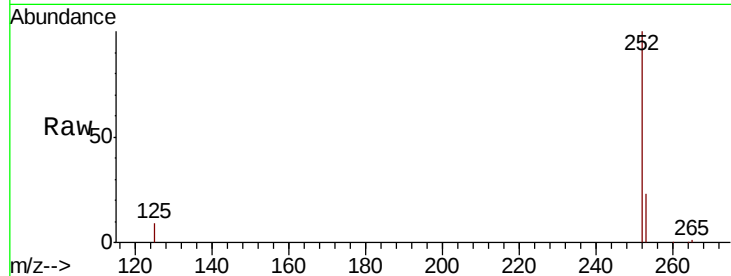
Tot Ion:252 Resp: 640693

Ion Ratio Lower Upper

252 100

253 23.0 18.2 27.2

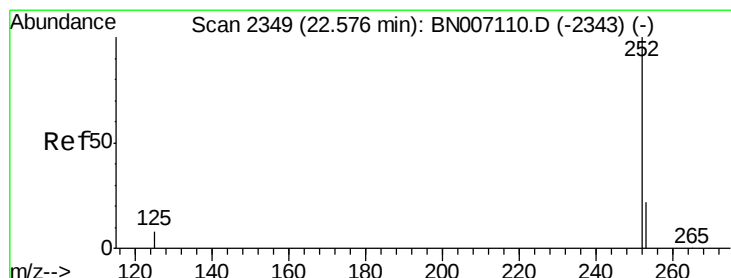
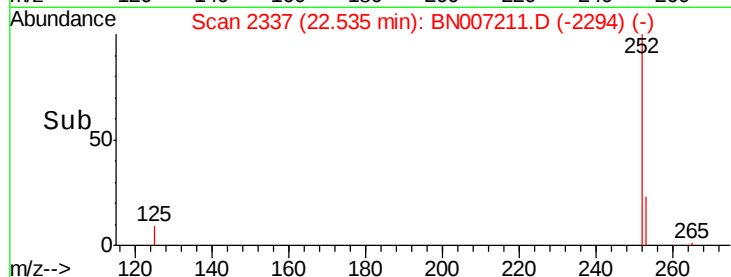
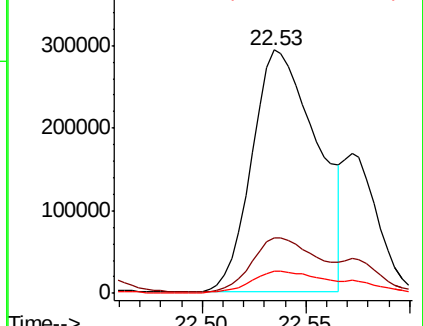
125 8.9 7.4 11.0



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: 4.454 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.05 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

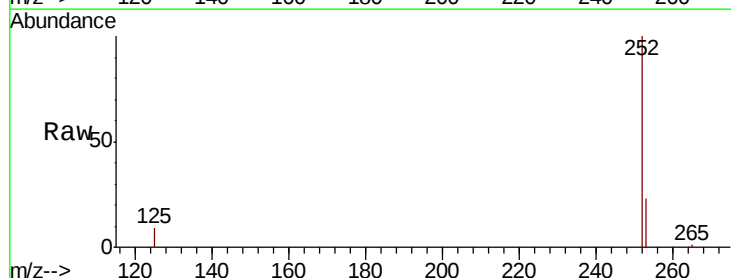
Tgt Ion:252 Resp: 640693

Ion Ratio Lower Upper

252 100

253 23.0 18.1 27.1

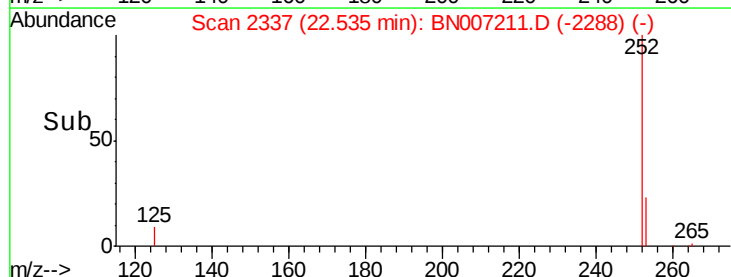
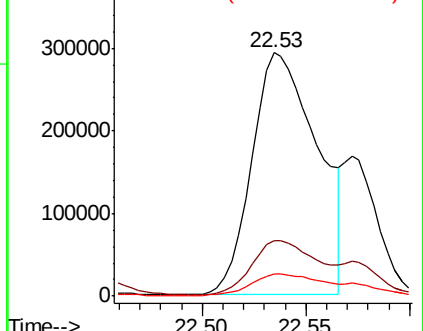
125 8.9 7.4 11.0



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#35

Benzo(a)pyrene

Concen: 3.393 ng

RT: 23.07 min Scan# 2492

Delta R.T. -0.02 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

Instrument :

BNA_N

ClientSampleId :

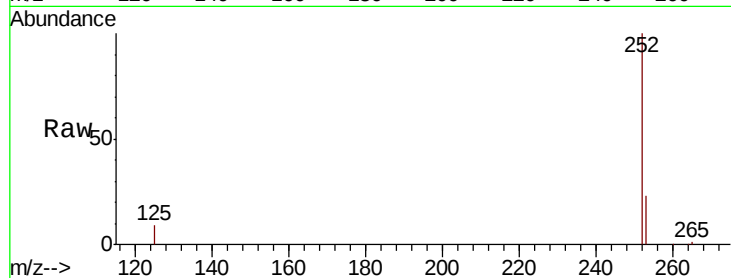
Tot Ion:252 Resp: 448047

Ion Ratio Lower Upper

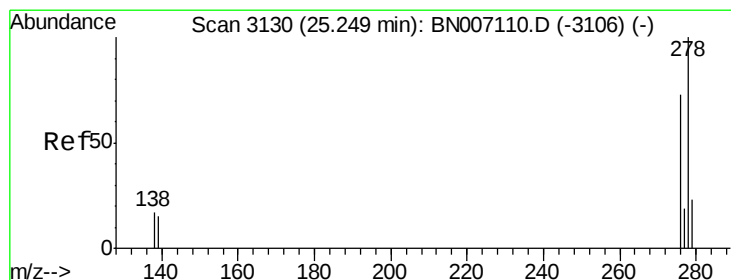
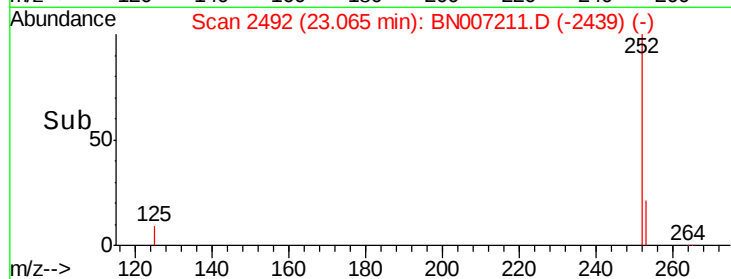
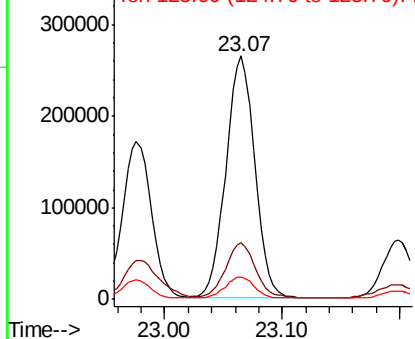
252 100

253 23.3 18.5 27.7

125 9.3 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: 0.632 ng

RT: 25.24 min Scan# 3127

Delta R.T. -0.03 min

Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

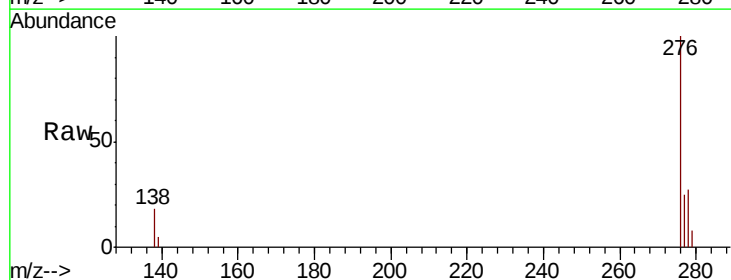
Tgt Ion:278 Resp: 83256

Ion Ratio Lower Upper

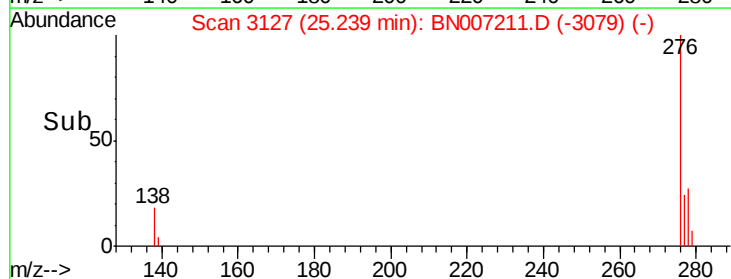
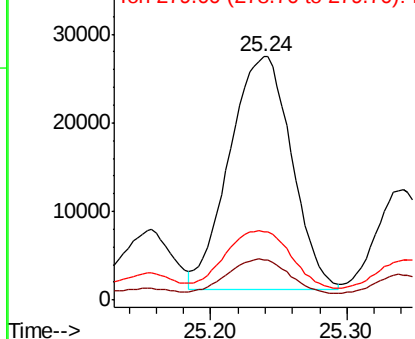
278 100

139 16.5 11.3 16.9

279 28.2 19.3 28.9



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





#37

Benzo(a,h,i)perylene

Concen: 1.984 ng

RT: 25.86 min Scan# 3308

Delta R.T. -0.02 min

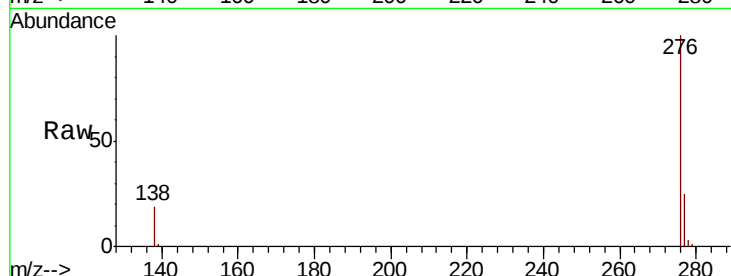
Lab File: BN007211.D

Acq: 15 Aug 2019 23:58

Instrument :

BNA_N

ClientSampleId :



Tot Ion: 276 Resp: 268945

Ion Ratio Lower Upper

276 100

277 24.6 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

