

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081519\
 Data File : BN007192.D
 Acq On : 15 Aug 2019 12:33
 Operator : HP/JU
 Sample : K4239-06 10X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 16 02:40:33 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	6963	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	26790	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	15431	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	36641	0.40	ng	0.00
26) Chrysene-d12	21.05	240	36908	0.40	ng	-0.01
32) Perylene-d12	23.16	264	41245	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.05	112	450	0.03	ng	0.00
4) Phenol-d6	6.61	99	639	0.03	ng	0.00
7) Nitrobenzene-d5	8.55	82	554	0.03	ng	-0.01
10) 2-Methylnaphthalene-d10	11.79	152	1028	0.02	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	161	0.02	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	291	0.01	ng	0.00
24) Fluoranthene-d10	18.87	212	2192	0.02	ng	0.00
28) Terphenyl-d14	19.48	244	1940	0.02	ng	-0.02

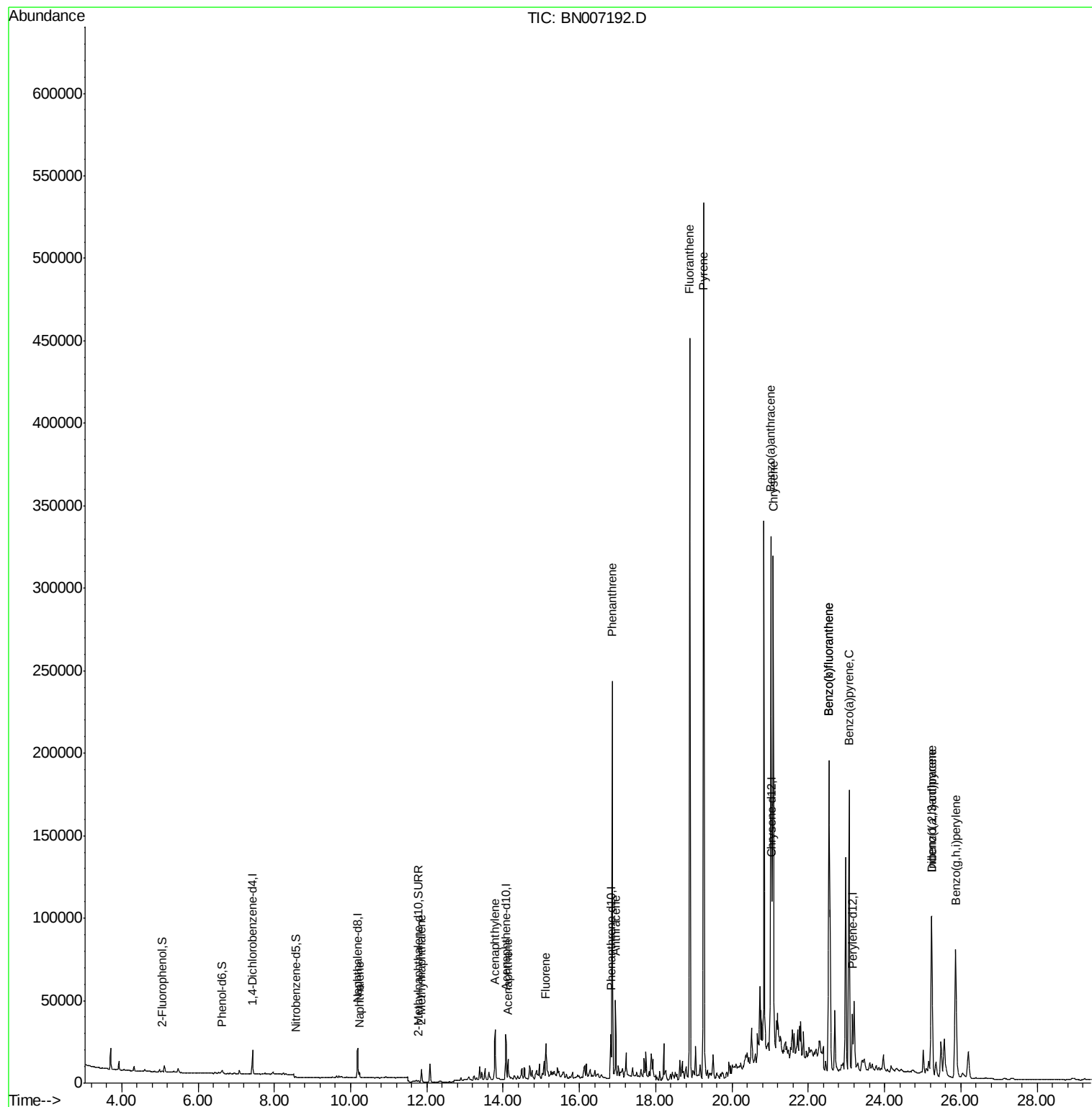
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.22	128	5058	0.067	ng	# 93
11) 2-Methylnaphthalene	11.86	142	5550	0.104	ng	95
15) Acenaphthylene	13.79	152	38882	0.482	ng	99
16) Acenaphthene	14.13	154	6105	0.118	ng	94
17) Fluorene	15.12	166	14327	0.185	ng	87
22) Phenanthrene	16.87	178	277624	2.528	ng	100
23) Anthracene	16.95	178	45933	0.458	ng	# 95
25) Fluoranthene	18.90	202	422109	3.005	ng	99
27) Pyrene	19.26	202	477114	3.686	ng	97
29) Benzo(a)anthracene	21.02	228	253429	1.878	ng	95
30) Chrysene	21.08	228	276860	2.111	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	147303	1.019	ng	98
33) Benzo(b)fluoranthene	22.54	252	311328	2.201	ng	100
34) Benzo(k)fluoranthene	22.54	252	311328	2.229	ng	99
35) Benzo(a)pyrene	23.07	252	220747	1.722	ng	99
36) Dibenzo(a,h)anthracene	25.24	278	40954	0.320	ng	# 89
37) Benzo(a,h,i)perylene	25.87	276	155698	1.183	ng	99

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

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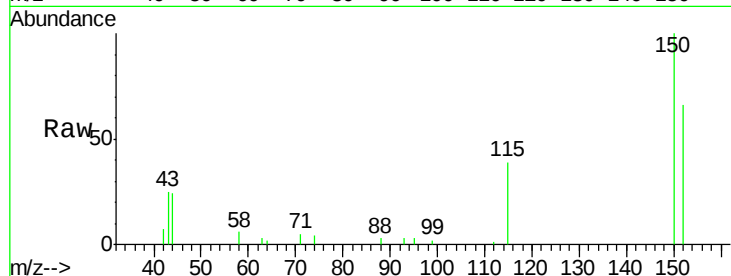


#1

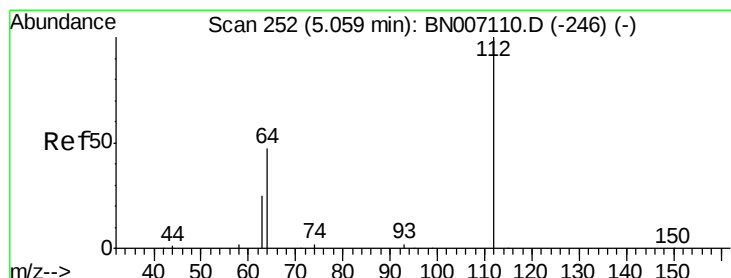
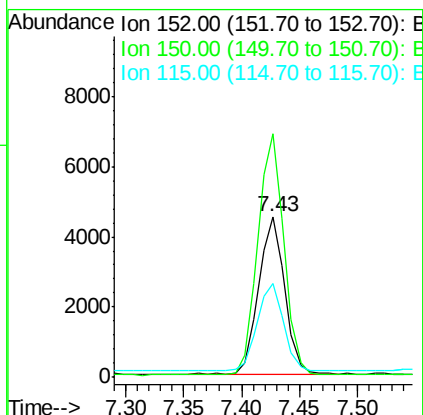
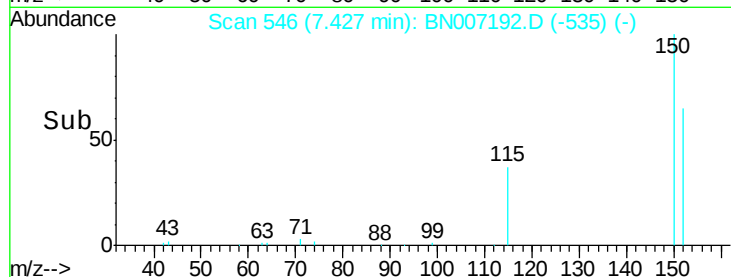
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 6963
Ion Ratio Lower Upper
152 100
150 151.3 121.7 182.5
115 58.7 46.2 69.4



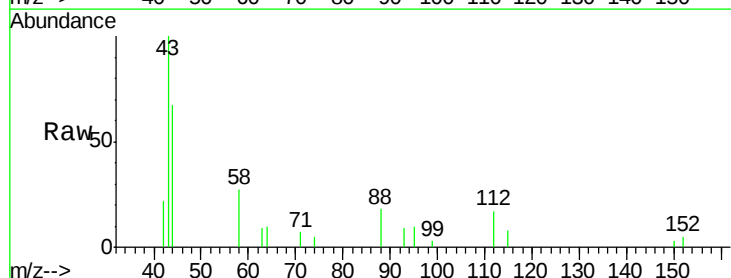
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



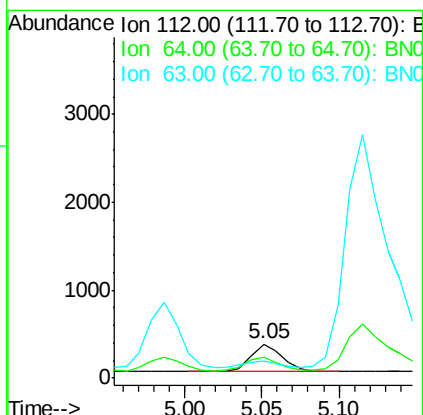
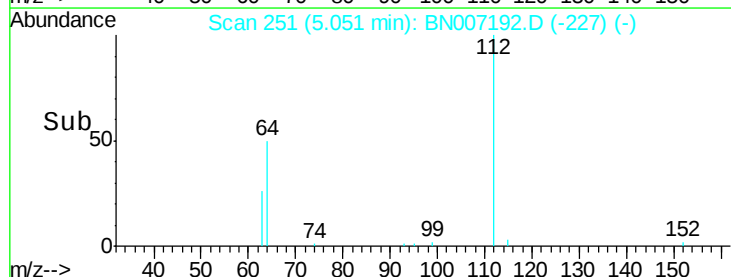
#3

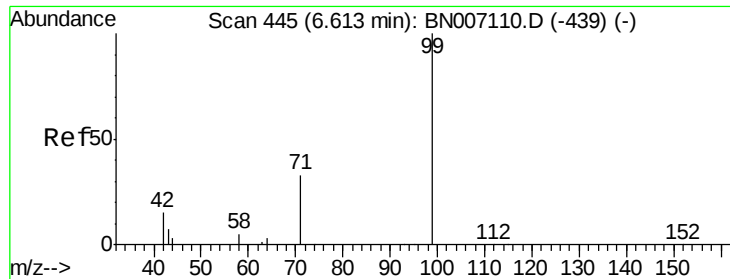
2-Fluorophenol
Concen: 0.027 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Tgt Ion:112 Resp: 450
Ion Ratio Lower Upper
112 100
64 49.8 42.6 63.8
63 0.0 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: 0.031 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Instrument :

BNA_N

ClientSampleId :

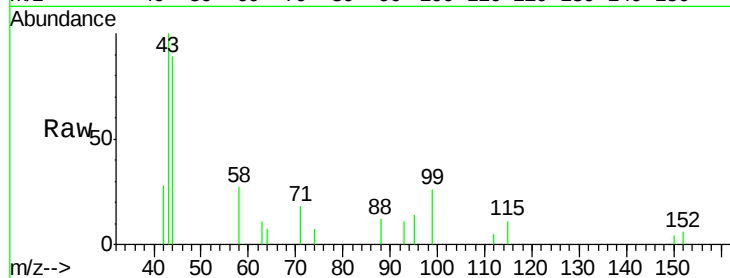
Tot Ion: 99 Resp: 639

Ion Ratio Lower Upper

99 100

42 41.9 15.8 23.6#

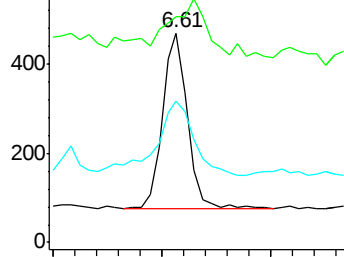
71 66.7 27.0 40.4#



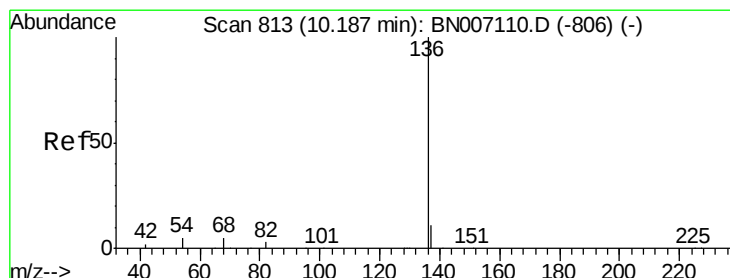
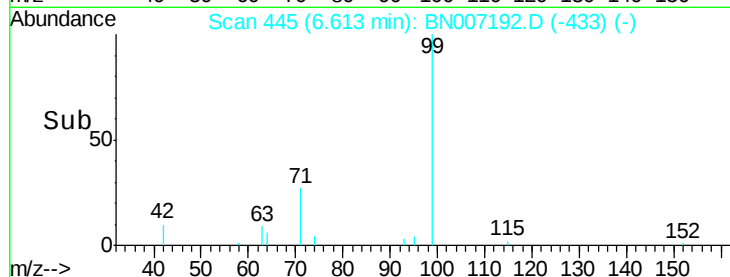
Abundance Ion 99.00 (98.70 to 99.70): BN007110.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007110.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007110.D (-439) (-)



Time--> 6.50 6.60 6.70



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Tgt Ion: 136 Resp: 26790

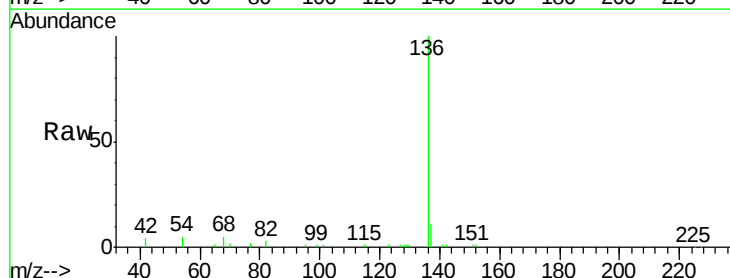
Ion Ratio Lower Upper

136 100

137 11.4 9.4 14.0

54 4.6 6.6 9.8#

68 4.6 6.0 9.0#

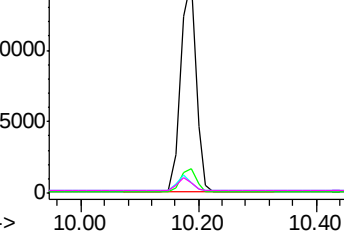


Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

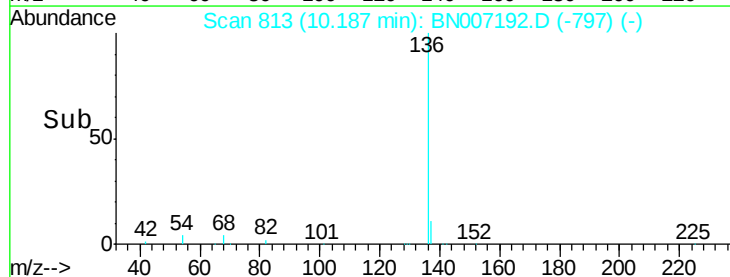
Ion 137.00 (136.70 to 137.70): BN007110.D (-806) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-806) (-)

Ion 68.00 (67.70 to 68.70): BN007110.D (-806) (-)



Time--> 10.00 10.20 10.40





#7

Nitrobenzene-d5

Concen: 0.026 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Instrument :

BNA_N

ClientSampleId :

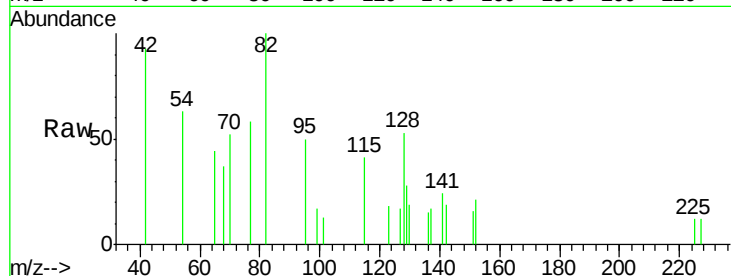
Tot Ion: 82 Resp: 554

Ion Ratio Lower Upper

82 100

128 53.3 34.6 51.8#

54 63.2 36.2 54.4#

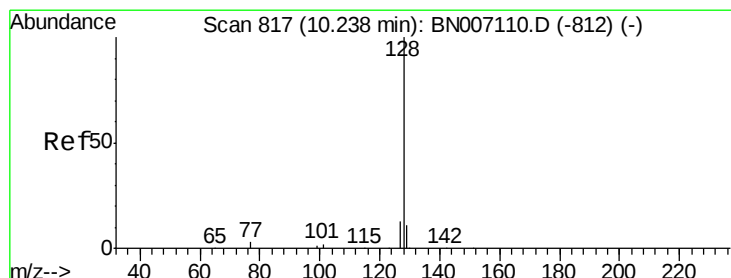
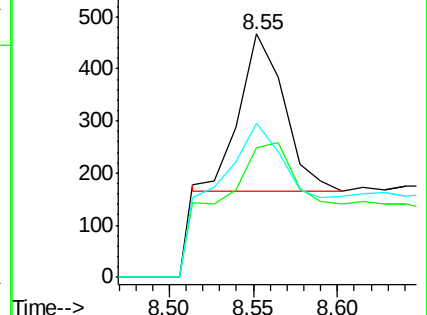
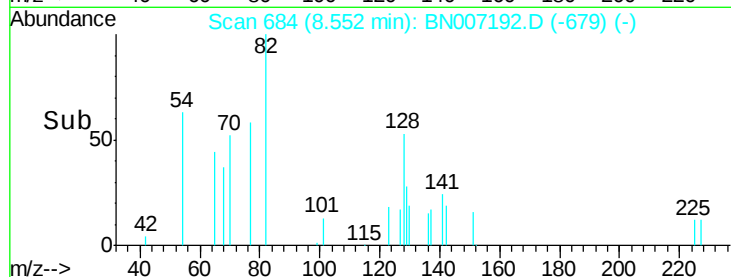


Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

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

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

Time-->



#8

Naphthalene

Concen: 0.067 ng

RT: 10.22 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

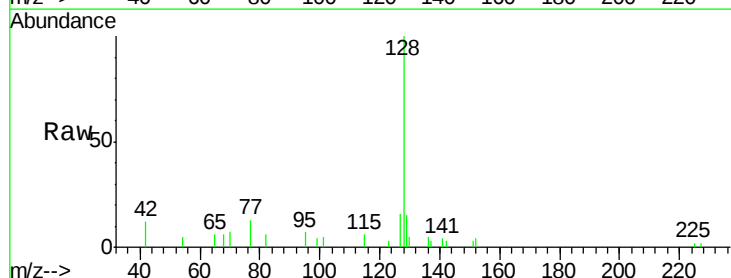
Tgt Ion: 128 Resp: 5058

Ion Ratio Lower Upper

128 100

129 15.1 9.4 14.2#

127 16.0 11.0 16.6

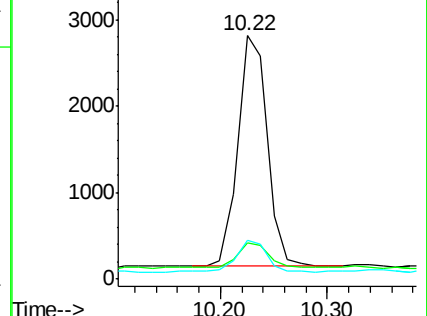
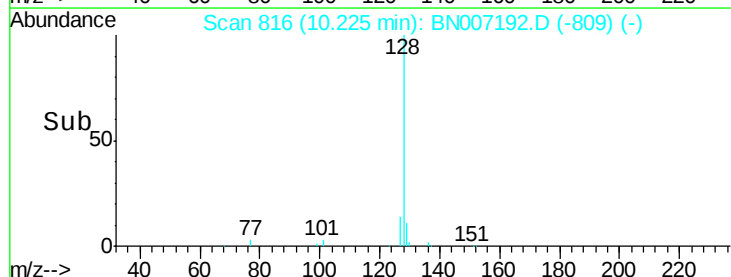


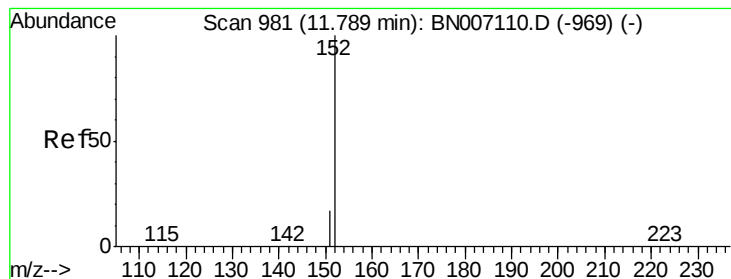
Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

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

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

Time-->





#10

2-Methylnaphthalene-d10

Concen: 0.021 ng

RT: 11.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Instrument :

BNA_N

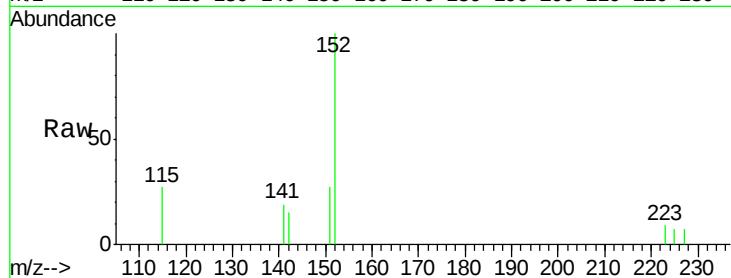
ClientSampleId :

Tot Ion:152 Resp: 1028

Ion Ratio Lower Upper

152 100

151 22.1 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

800

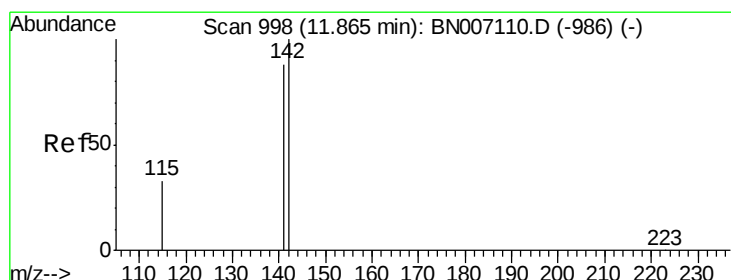
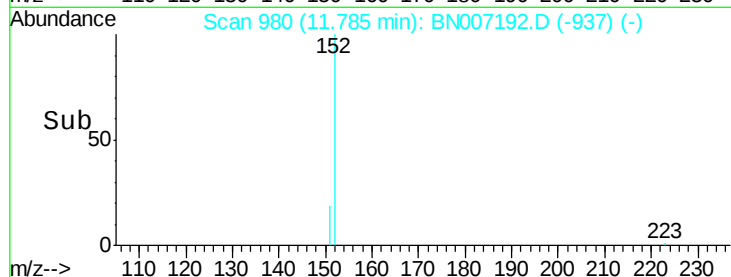
600

400

200

0

Time--> 11.70 11.75 11.80



#11

2-Methylnaphthalene

Concen: 0.104 ng

RT: 11.86 min Scan# 996

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

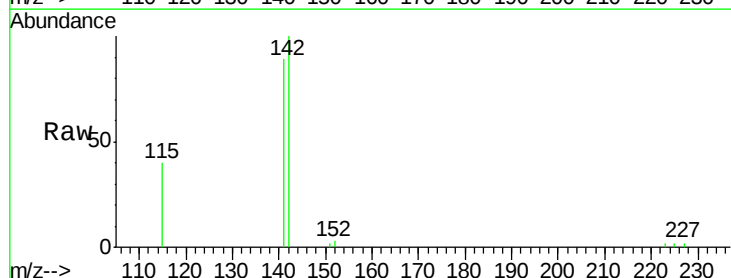
Tgt Ion:142 Resp: 5550

Ion Ratio Lower Upper

142 100

141 89.5 69.0 103.6

115 39.6 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

11.86

4000

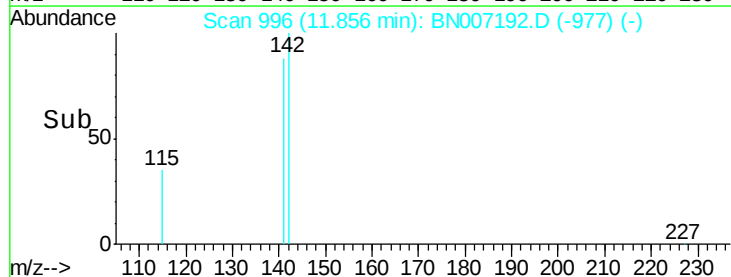
3000

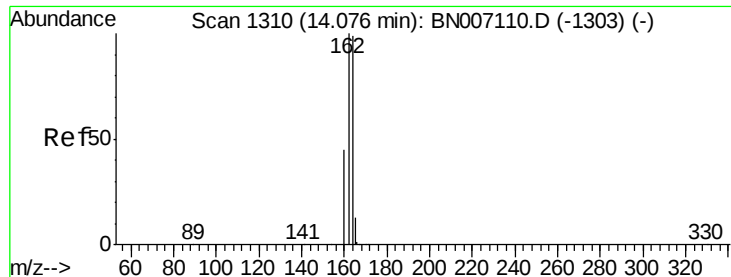
2000

1000

0

Time--> 11.80 11.90





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Instrument :

BNA_N

ClientSampled :

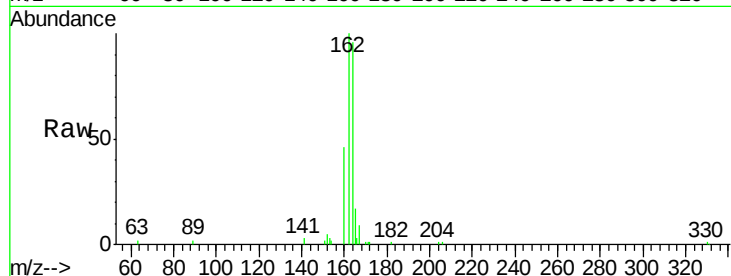
Tot Ion:164 Resp: 15431

Ion Ratio Lower Upper

164 100

162 104.3 82.2 123.4

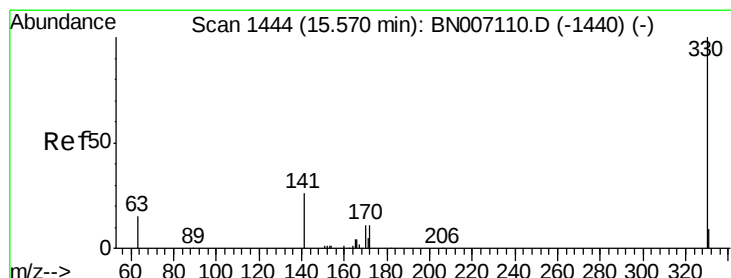
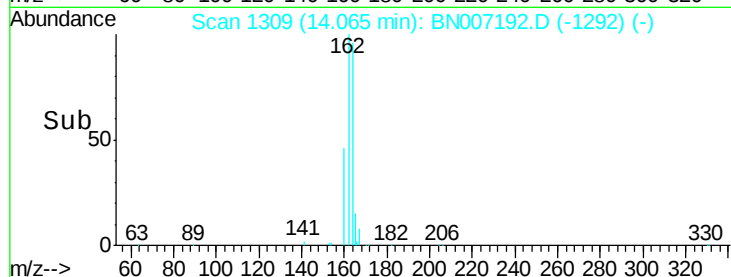
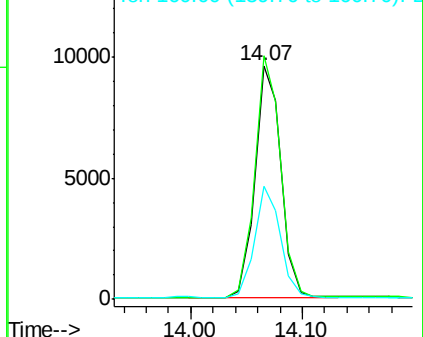
160 48.4 38.3 57.5



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: 0.019 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

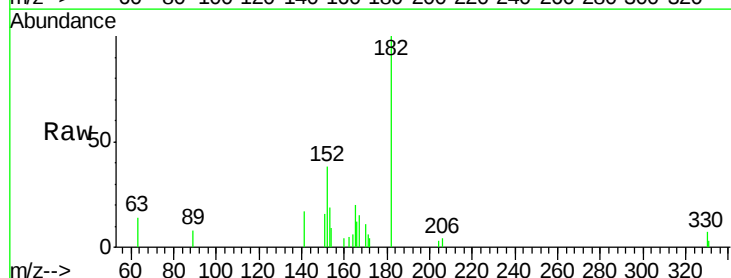
Tgt Ion:330 Resp: 161

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

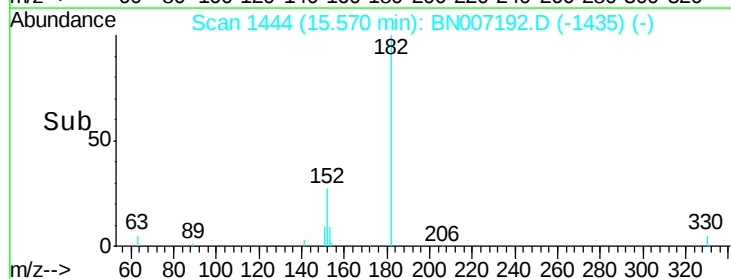
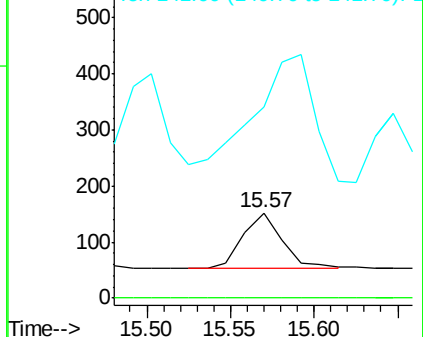
141 0.0 33.6 50.4#



Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

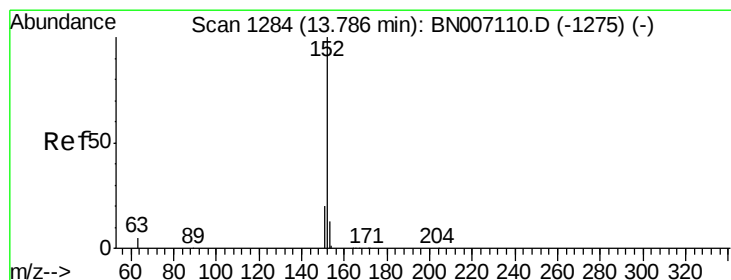
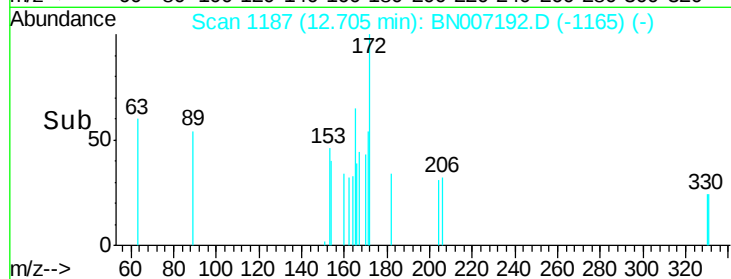
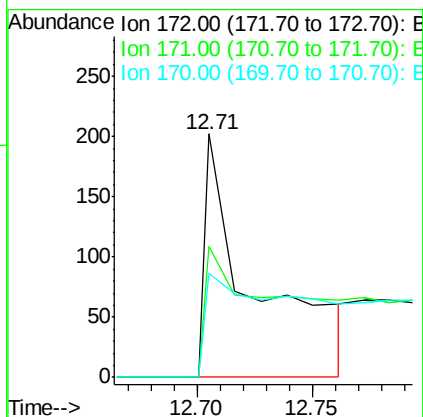
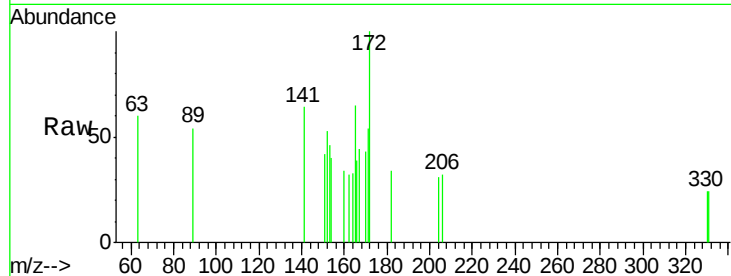




#14
2-Fluorobiphenyl
Concen: 0.013 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

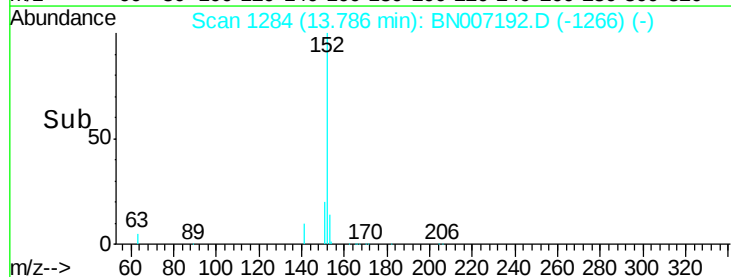
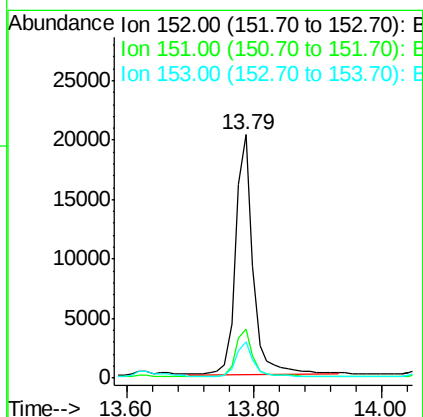
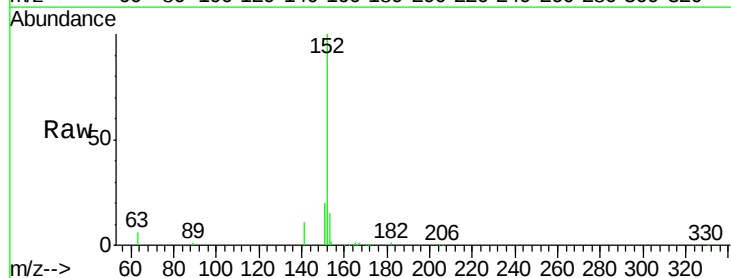
Instrument :
BNA_N
ClientSampleId :

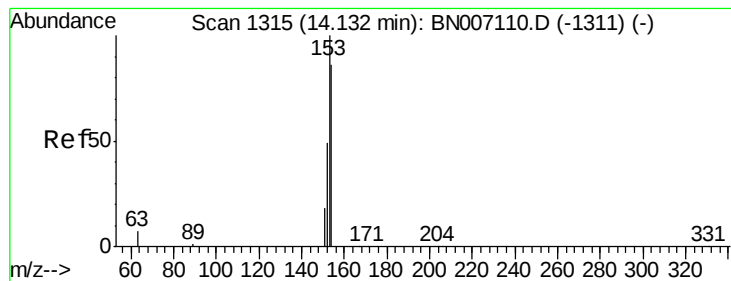
Tot Ion:172 Resp: 291
Ion Ratio Lower Upper
172 100
171 54.0 26.3 39.5#
170 43.1 17.0 25.4#



#15
Acenaphthylene
Concen: 0.482 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Tgt Ion:152 Resp: 38882
Ion Ratio Lower Upper
152 100
151 19.9 15.8 23.6
153 13.9 10.4 15.6





#16

Acenaphthene

Concen: 0.118 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

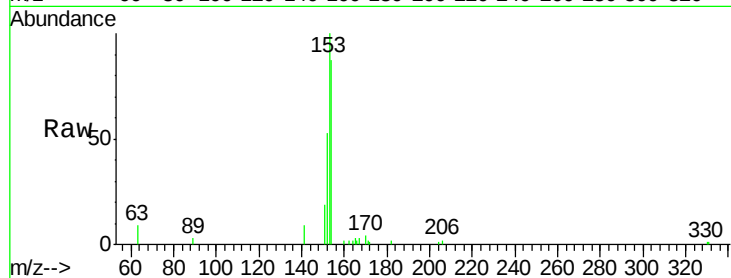
Instrument :

BNA_N

ClientSampleId :

Tot Ion:154 Resp: 6105

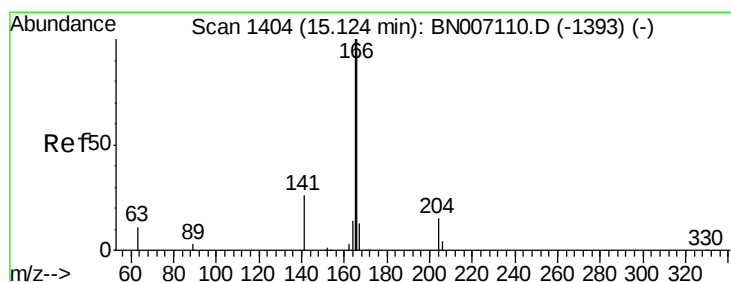
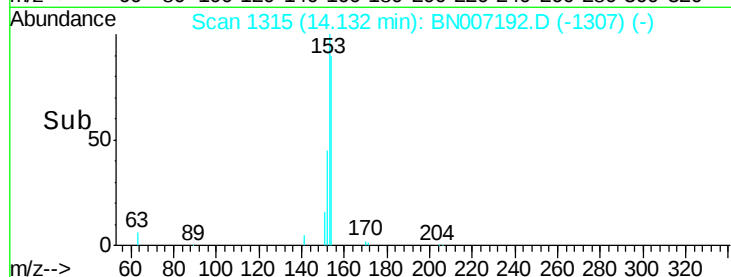
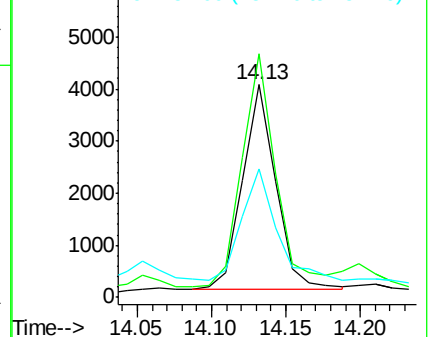
Ion	Ratio	Lower	Upper
154	100		
153	115.2	89.5	134.3
152	65.5	44.8	67.2



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: 0.185 ng

RT: 15.12 min Scan# 1404

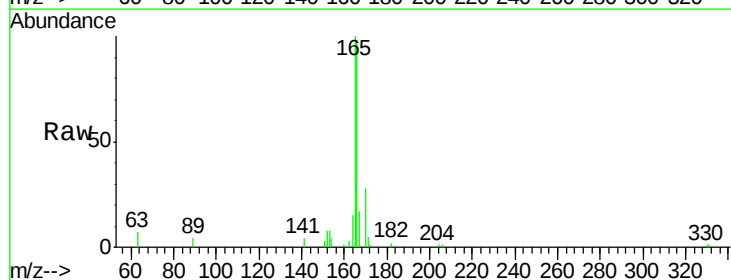
Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Tgt Ion:166 Resp: 14327

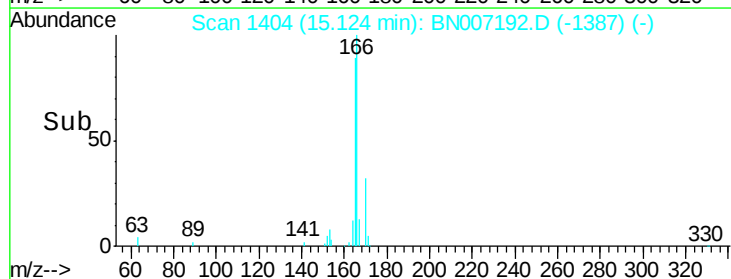
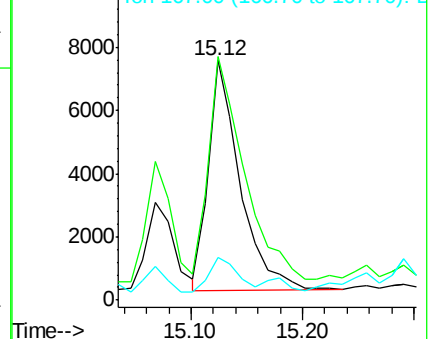
Ion	Ratio	Lower	Upper
166	100		
165	111.3	77.9	116.9
167	14.0	10.9	16.3



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

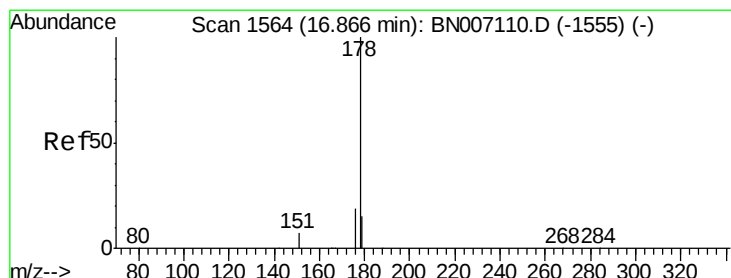
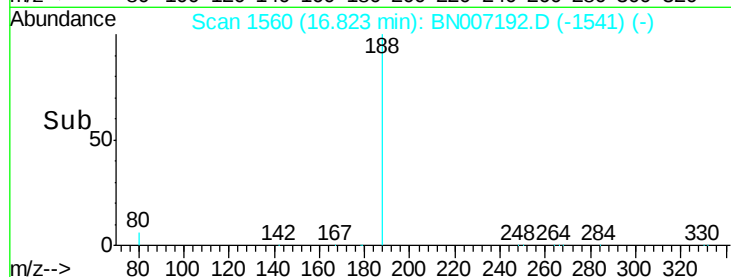
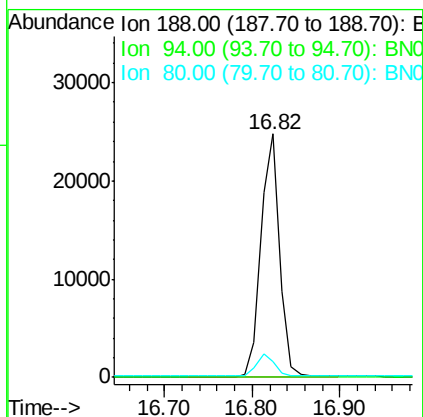
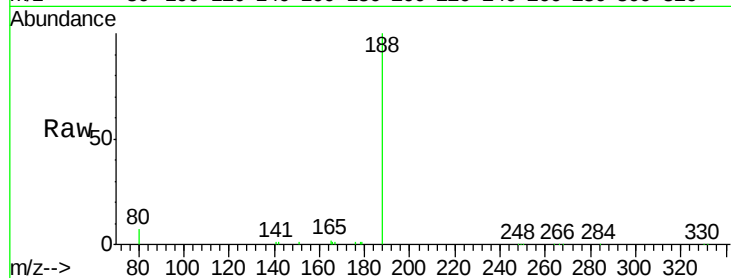




#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

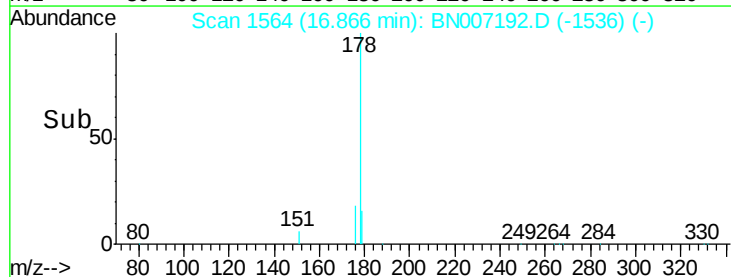
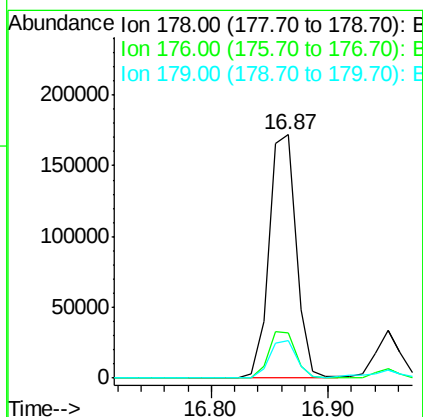
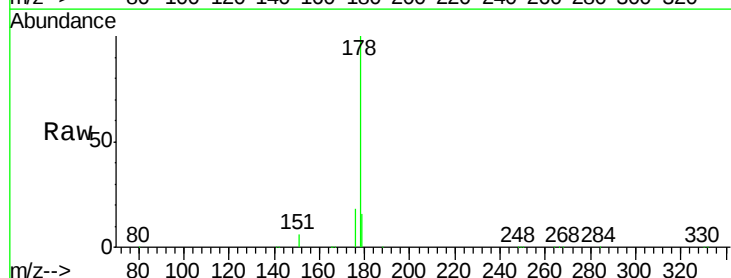
Instrument :
BNA_N
ClientSampleId :

Tot Ion:188 Resp: 36641
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.5 7.8 11.6#



#22
Phenanthrene
Concen: 2.528 ng
RT: 16.87 min Scan# 1564
Delta R.T. -0.00 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Tgt Ion:178 Resp: 277624
Ion Ratio Lower Upper
178 100
176 19.1 15.2 22.8
179 15.5 12.3 18.5





#23

Anthracene

Concen: 0.458 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Instrument :

BNA_N

ClientSampled :

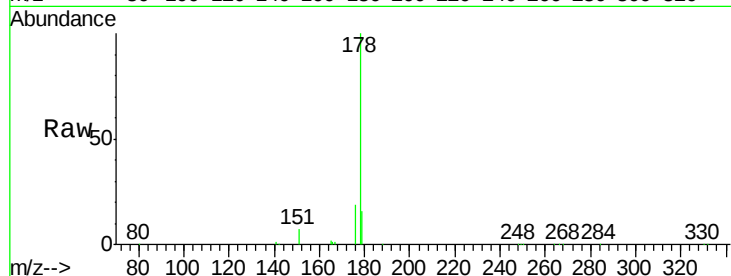
Tot Ion:178 Resp: 45933

Ion Ratio Lower Upper

178 100

176 18.4 14.6 21.8

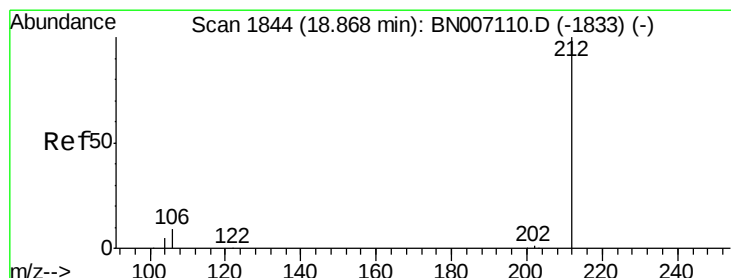
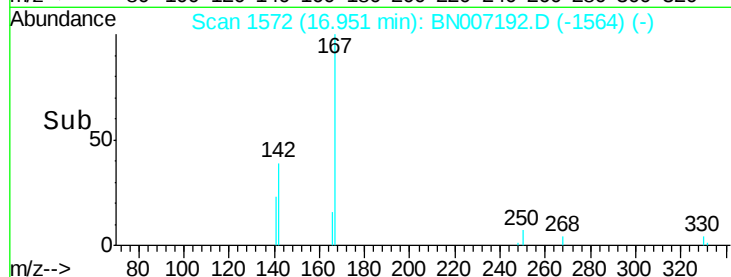
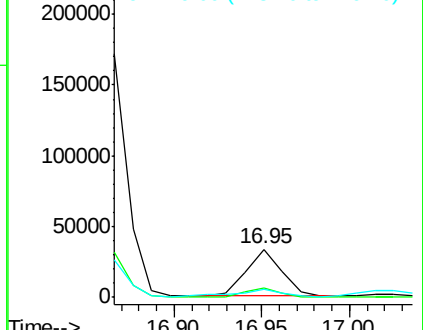
179 19.6 12.5 18.7#



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: 0.017 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

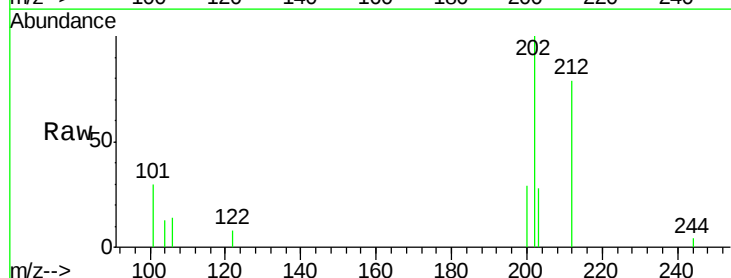
Tgt Ion:212 Resp: 2192

Ion Ratio Lower Upper

212 100

106 10.7 8.2 12.2

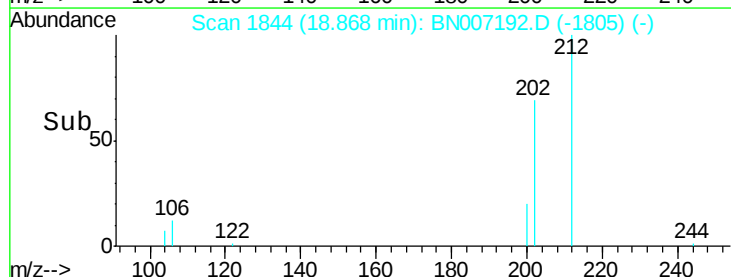
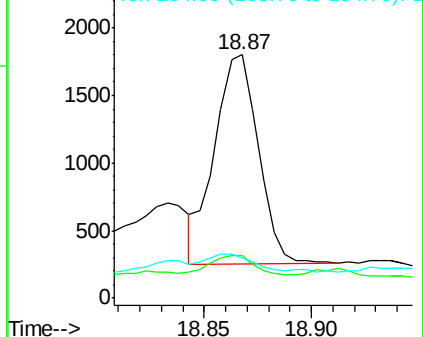
104 11.2 4.5 6.7#

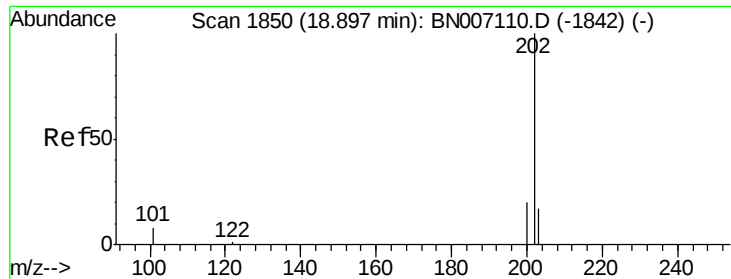


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 3.005 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Instrument :

BNA_N

ClientSampleId :

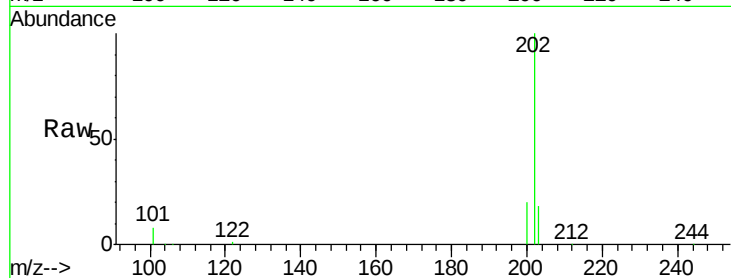
Tot Ion:202 Resp: 422109

Ion Ratio Lower Upper

202 100

101 9.0 7.0 10.4

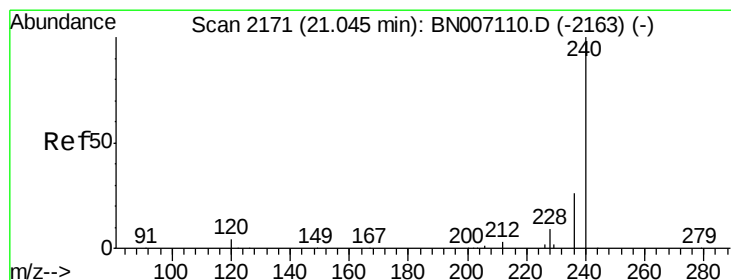
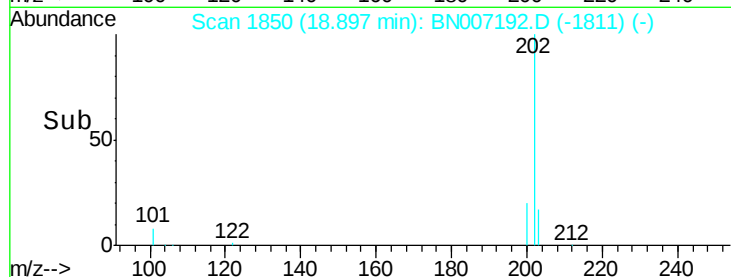
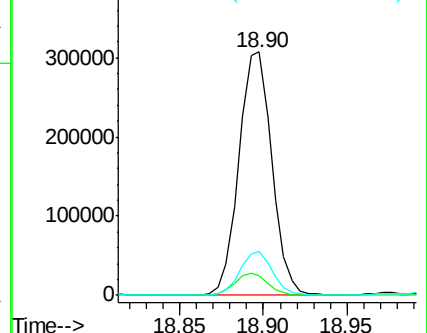
203 17.7 13.8 20.8



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: BN007192.D

Acq: 15 Aug 2019 12:33

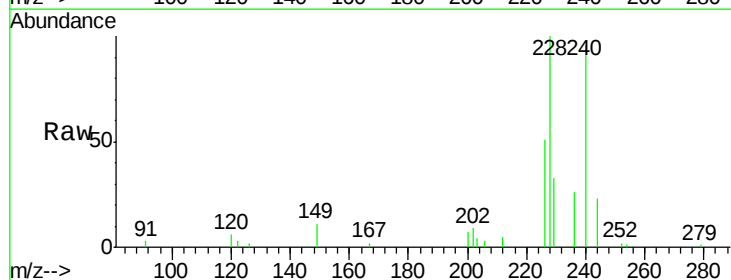
Tgt Ion:240 Resp: 36908

Ion Ratio Lower Upper

240 100

120 6.3 4.0 6.0#

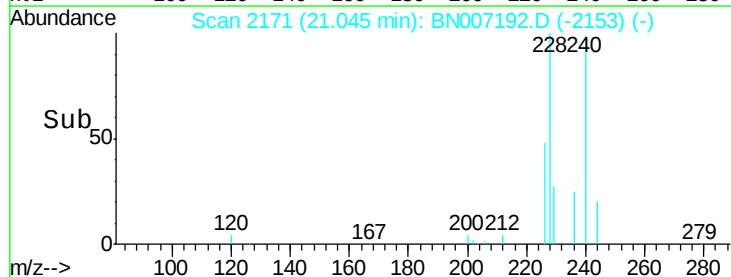
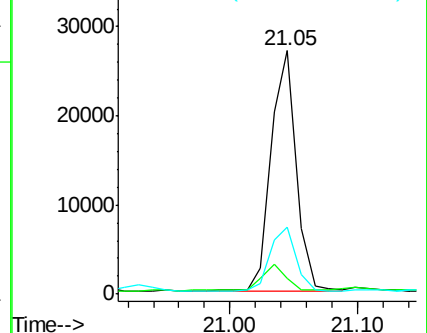
236 27.4 21.3 31.9

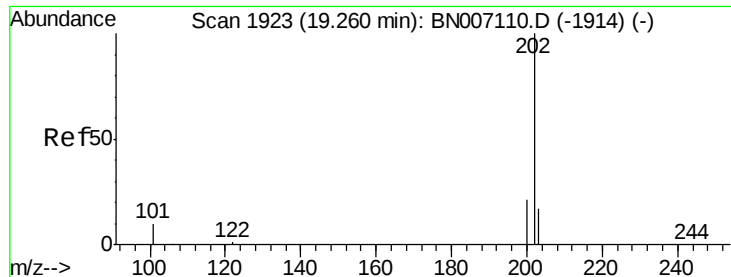


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

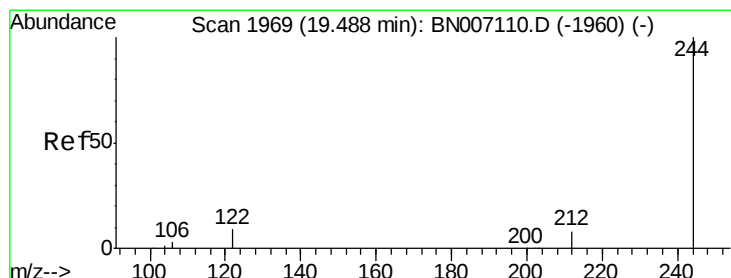
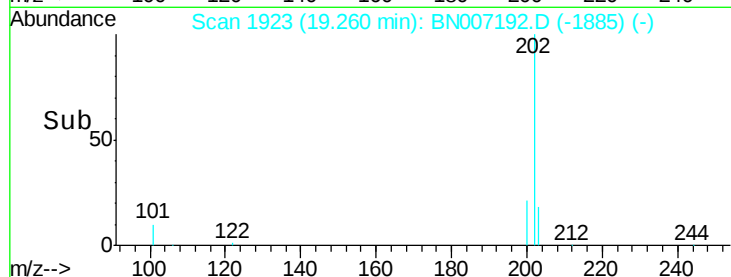
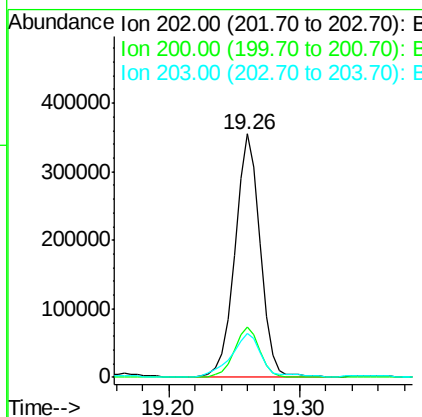
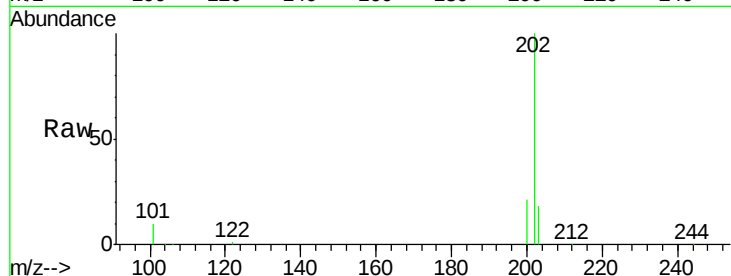




#27
Pvrene
Concen: 3.686 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

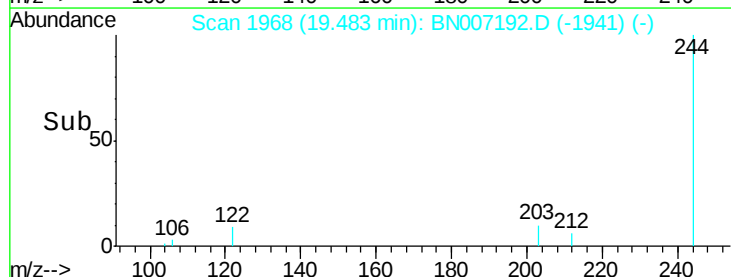
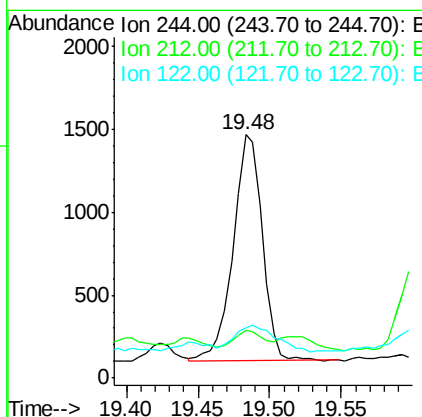
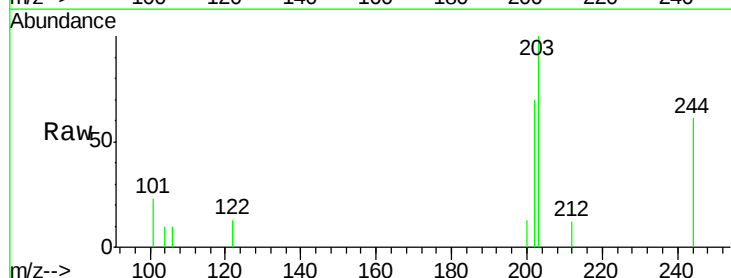
Instrument :
BNA_N
ClientSampleId :

Tot Ion:202 Resp: 477114
Ion Ratio Lower Upper
202 100
200 20.8 16.6 24.8
203 20.6 14.0 21.0



#28
Terphenyl-d14
Concen: 0.019 ng
RT: 19.48 min Scan# 1968
Delta R.T. -0.02 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Tgt Ion:244 Resp: 1940
Ion Ratio Lower Upper
244 100
212 19.7 6.2 9.2#
122 20.9 7.4 11.2#





#29

Benzo(a)anthracene

Concen: 1.878 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Instrument :

BNA_N

ClientSampleId :

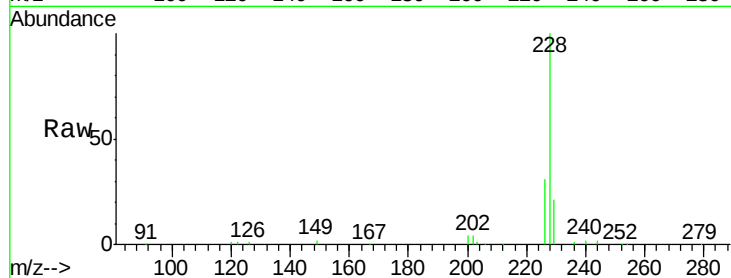
Tot Ion:228 Resp: 253429

Ion Ratio Lower Upper

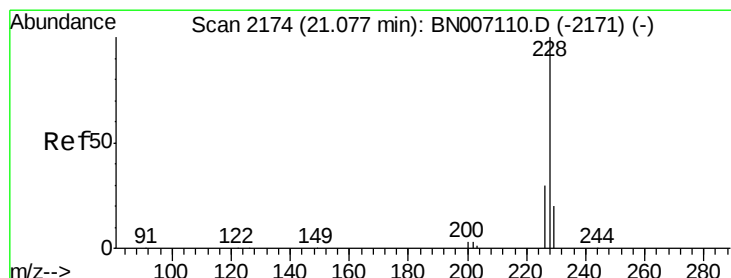
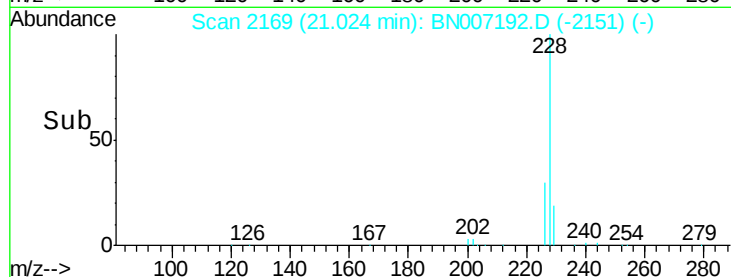
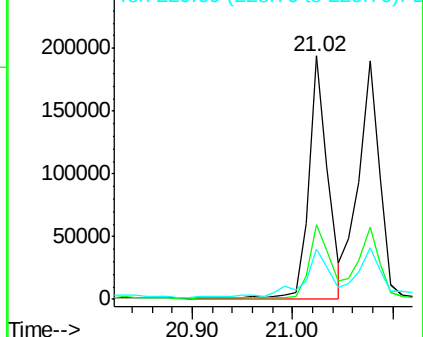
228 100

226 30.6 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: 2.111 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

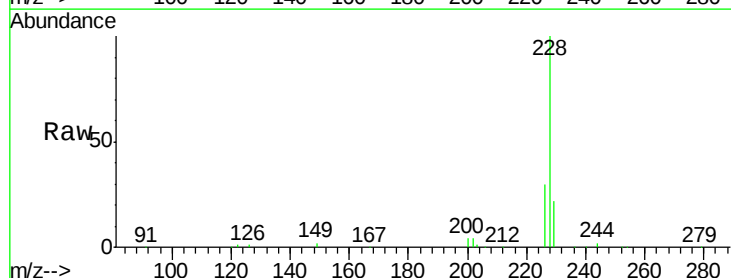
Tgt Ion:228 Resp: 276860

Ion Ratio Lower Upper

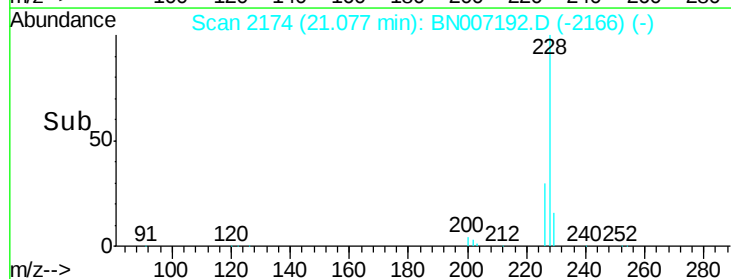
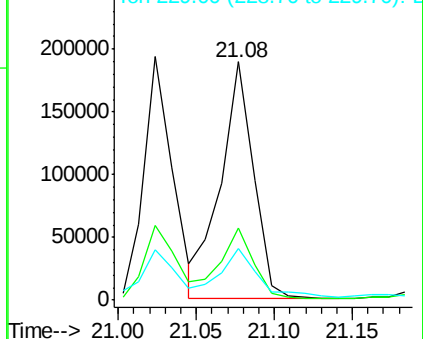
228 100

226 30.0 23.8 35.6

229 21.8 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

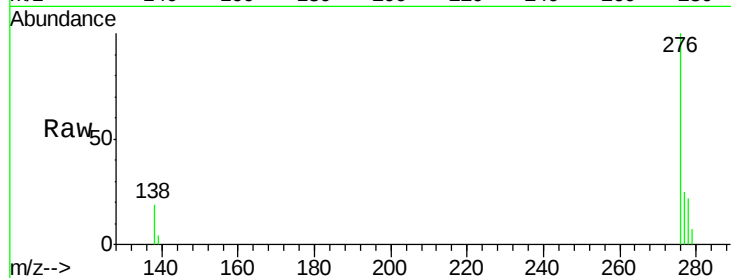




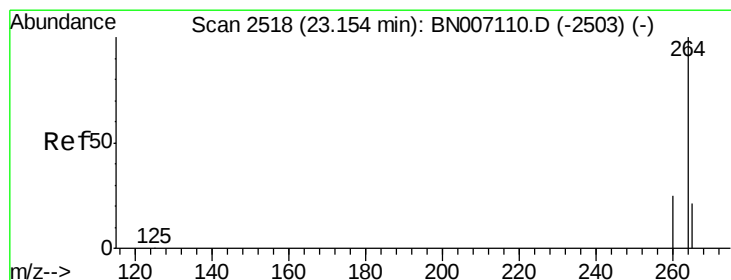
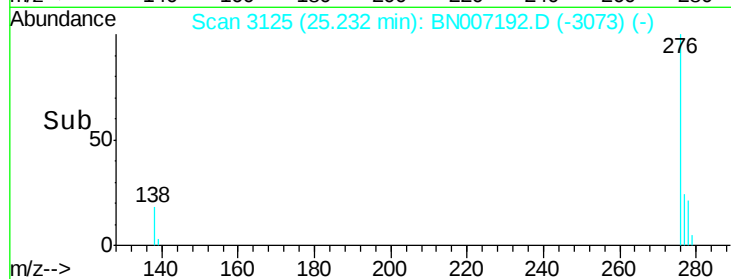
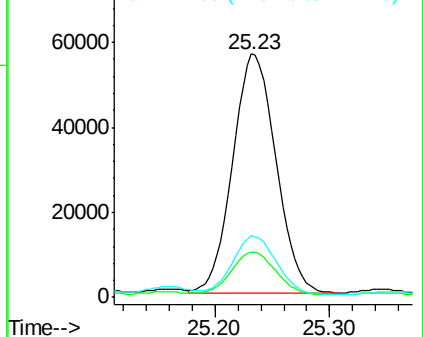
#31
Indeno(1,2,3-cd)pyrene
Concen: 1.019 ng
RT: 25.23 min Scan# 3125
Delta R.T. -0.02 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Instrument :
BNA_N
ClientSampleId :

Tot Ion:276 Resp: 147303
Ion Ratio Lower Upper
276 100
138 18.5 16.0 24.0
277 24.8 19.9 29.9

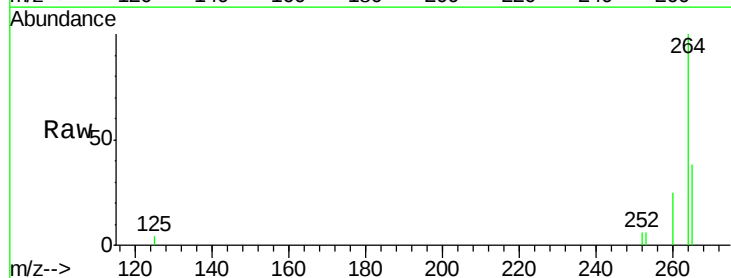


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

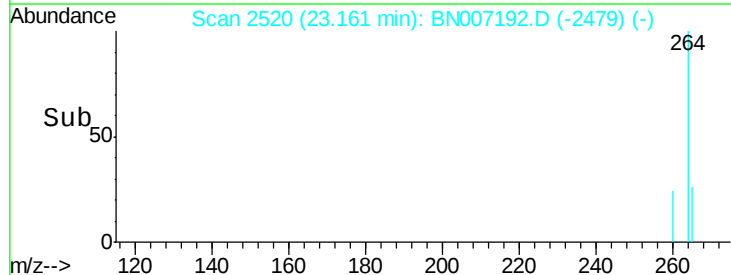
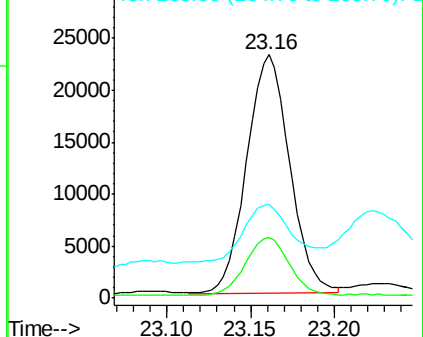


#32
Perylene-d12
Concen: 0.400 ng
RT: 23.16 min Scan# 2520
Delta R.T. -0.01 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Tgt Ion:264 Resp: 41245
Ion Ratio Lower Upper
264 100
260 25.0 19.8 29.8
265 38.4 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: 2.201 ng

RT: 22.54 min Scan# 2339

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Instrument :

BNA_N

ClientSampleId :

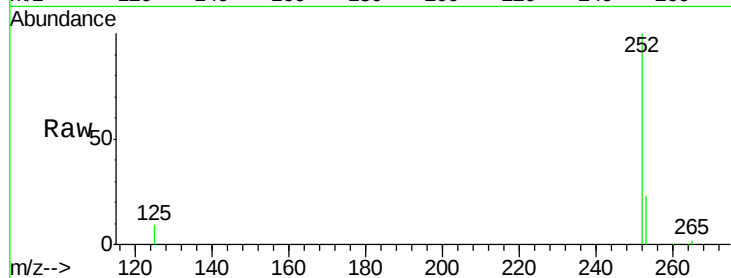
Tot Ion:252 Resp: 311328

Ion Ratio Lower Upper

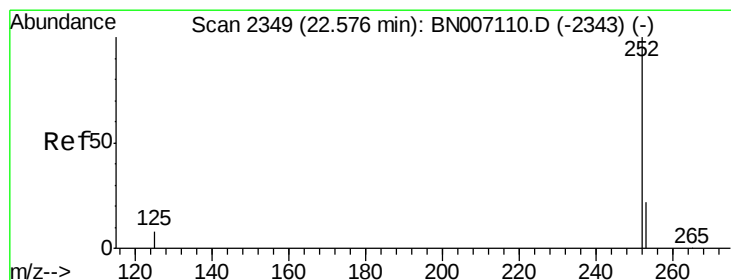
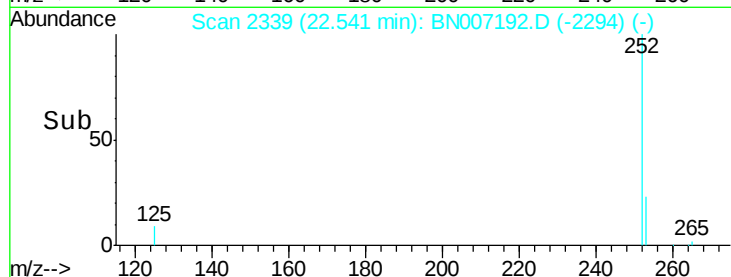
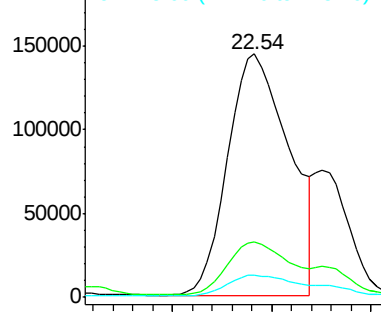
252 100

253 23.0 18.2 27.2

125 9.2 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: 2.229 ng

RT: 22.54 min Scan# 2339

Delta R.T. -0.05 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

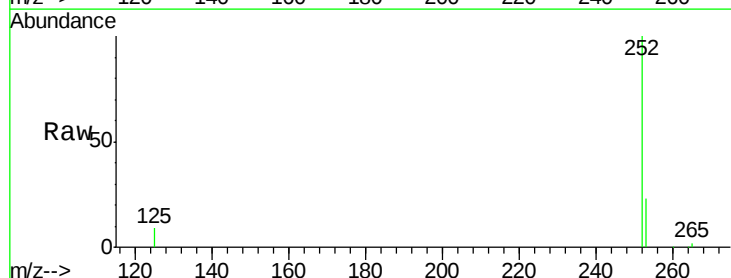
Tgt Ion:252 Resp: 311328

Ion Ratio Lower Upper

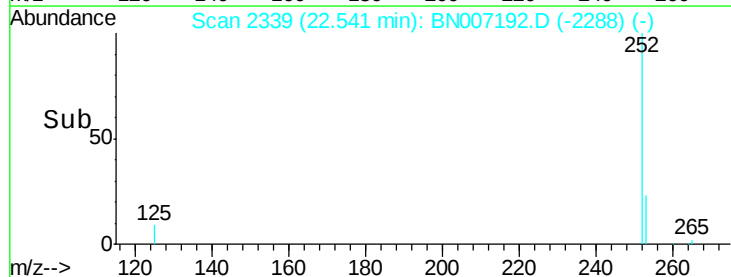
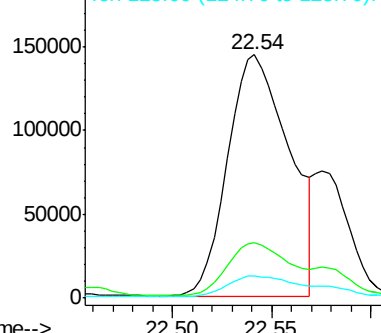
252 100

253 23.0 18.1 27.1

125 9.2 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: 1.722 ng

RT: 23.07 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Instrument :

BNA_N

ClientSampleId :

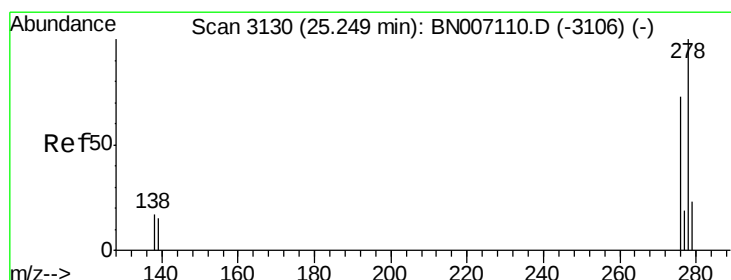
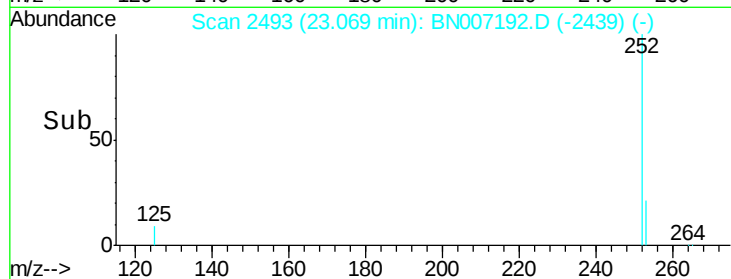
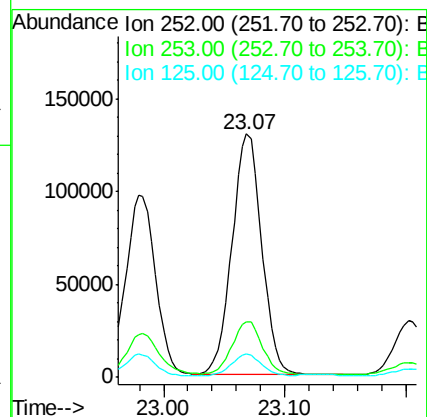
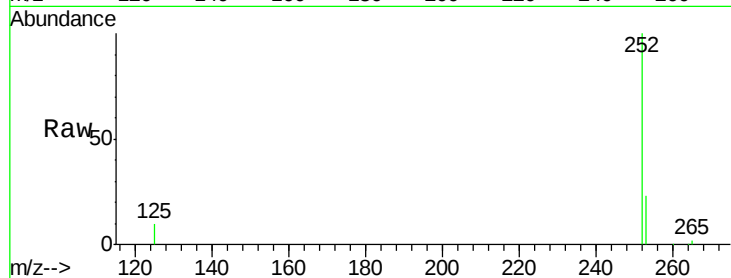
Tot Ion:252 Resp: 220747

Ion Ratio Lower Upper

252 100

253 23.0 18.5 27.7

125 9.6 8.2 12.4



#36

Dibenzo(a,h)anthracene

Concen: 0.320 ng

RT: 25.24 min Scan# 3128

Delta R.T. -0.03 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

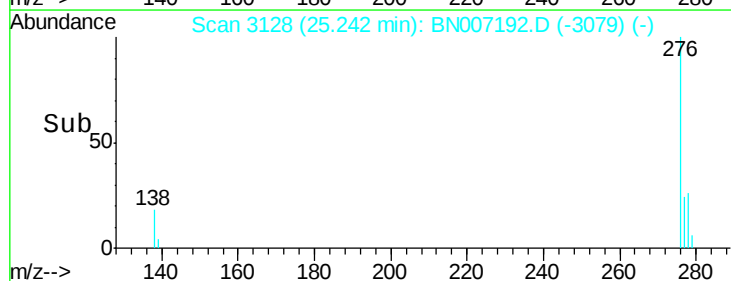
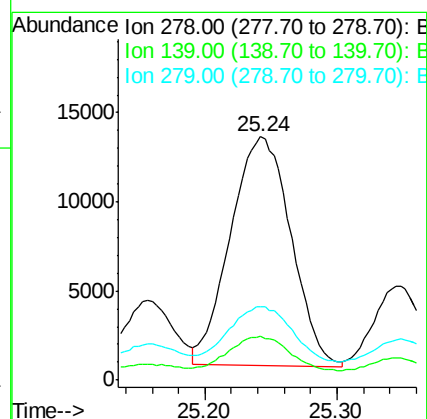
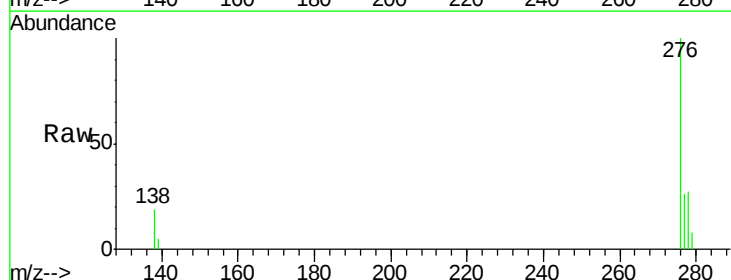
Tgt Ion:278 Resp: 40954

Ion Ratio Lower Upper

278 100

139 17.9 11.3 16.9#

279 29.9 19.3 28.9#





#37

Benzo(a,h,i)perylene

Concen: 1.183 ng

RT: 25.87 min Scan# 3310

Delta R.T. -0.01 min

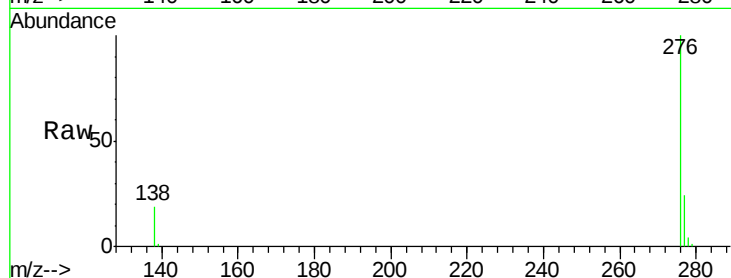
Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Instrument :

BNA_N

ClientSampleId :



Tot Ion: 276 Resp: 155698

Ion Ratio Lower Upper

276 100

277 24.5 19.8 29.8

138 18.8 14.6 22.0

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

