

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081519\
 Data File : BN007196.D
 Acq On : 15 Aug 2019 14:57
 Operator : HP/JU
 Sample : K4173-11 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 16 02:42:11 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	8261	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	32081	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	18515	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	44487	0.40	ng	0.00
26) Chrysene-d12	21.05	240	45424	0.40	ng	-0.01
32) Perylene-d12	23.16	264	50776	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.05	112	803	0.04	ng	0.00
4) Phenol-d6	6.61	99	1037	0.04	ng	0.00
7) Nitrobenzene-d5	8.55	82	911	0.04	ng	-0.01
10) 2-Methylnaphthalene-d10	11.79	152	1875	0.03	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	296	0.03	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	483	0.02	ng	0.00
24) Fluoranthene-d10	18.86	212	6028	0.04	ng	0.00
28) Terphenyl-d14	19.48	244	3642	0.03	ng	-0.01

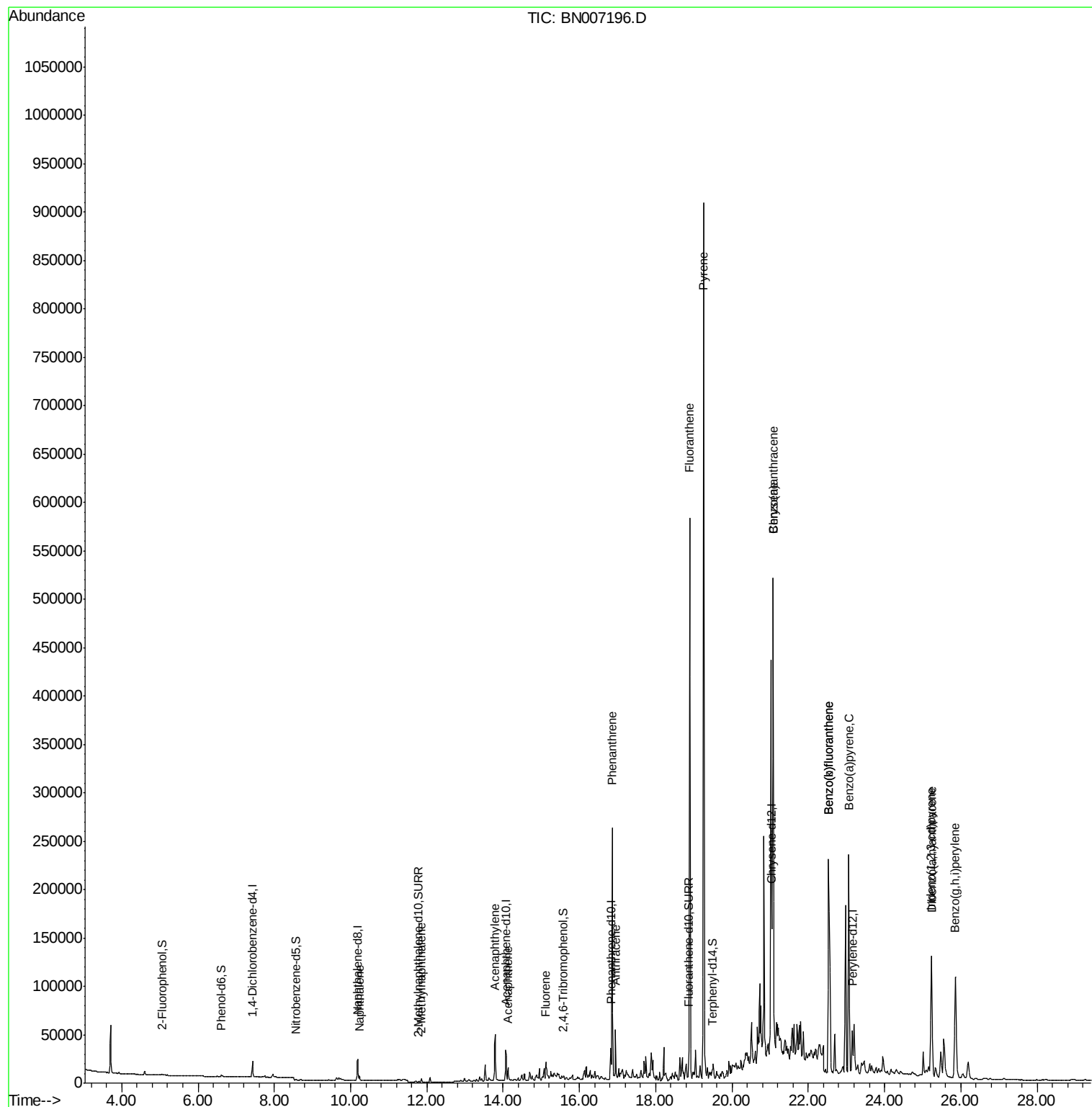
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.23	128	5856	0.065	ng	# 93
11) 2-Methylnaphthalene	11.86	142	3410	0.054	ng	# 93
15) Acenaphthylene	13.79	152	62902	0.650	ng	100
16) Acenaphthene	14.13	154	7391	0.119	ng	95
17) Fluorene	15.12	166	13785	0.149	ng	83
22) Phenanthrene	16.87	178	302423	2.268	ng	100
23) Anthracene	16.95	178	49339	0.405	ng	97
25) Fluoranthene	18.89	202	551359	3.233	ng	99
27) Pyrene	19.26	202	806243	5.061	ng	97
29) Benzo(a)anthracene	21.08	228	430411	2.591	ng	95
30) Chrysene	21.08	228	430411	2.667	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	188085	1.057	ng	99
33) Benzo(b)fluoranthene	22.53	252	477884	2.745	ng	100
34) Benzo(k)fluoranthene	22.53	252	478073	2.780	ng	99
35) Benzo(a)pyrene	23.07	252	302613	1.917	ng	99
36) Dibenzo(a,h)anthracene	25.24	278	54182	0.344	ng	# 87
37) Benzo(a,h,i)perylene	25.86	276	208577	1.287	ng	99

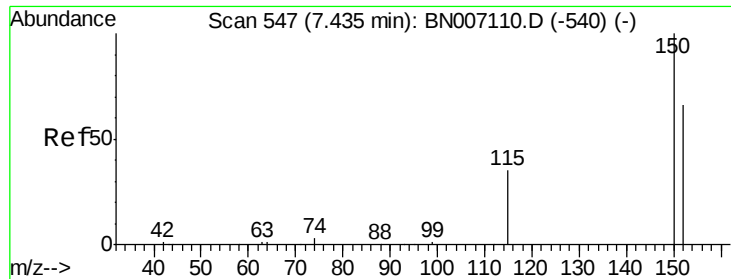
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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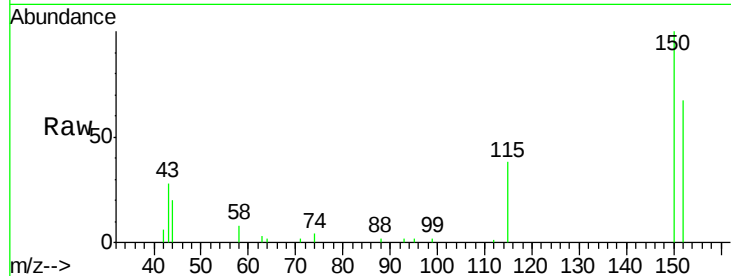


#1

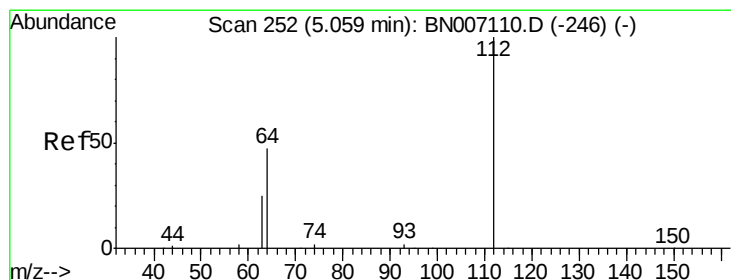
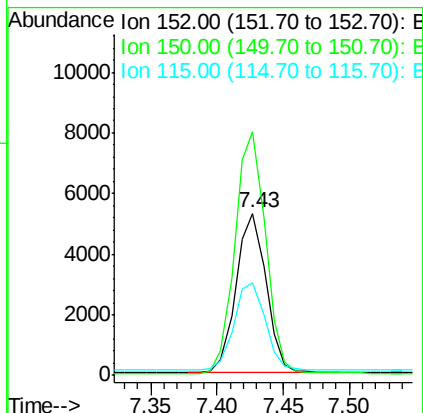
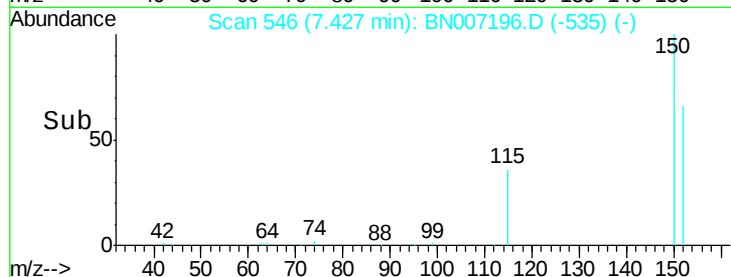
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007196.D
Acq: 15 Aug 2019 14:57

Instrument :
BNA_N
ClientSampled :

Tot Ion:152 Resp: 8261
Ion Ratio Lower Upper
152 100
150 150.2 121.7 182.5
115 57.4 46.2 69.4



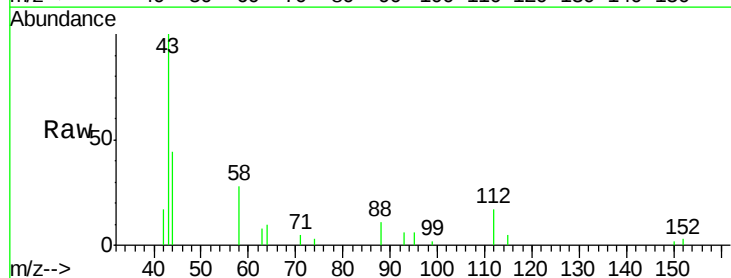
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



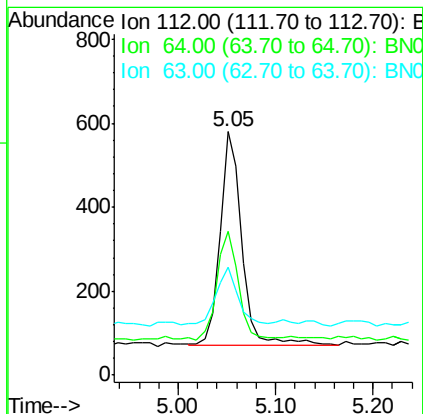
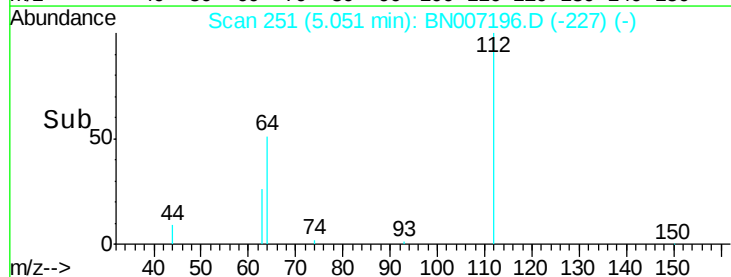
#3

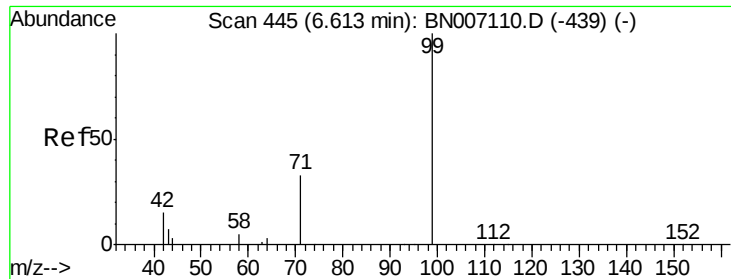
2-Fluorophenol
Concen: 0.040 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007196.D
Acq: 15 Aug 2019 14:57

Tgt Ion:112 Resp: 803
Ion Ratio Lower Upper
112 100
64 52.1 42.6 63.8
63 29.0 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: 0.042 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

Instrument :

BNA_N

ClientSampleId :

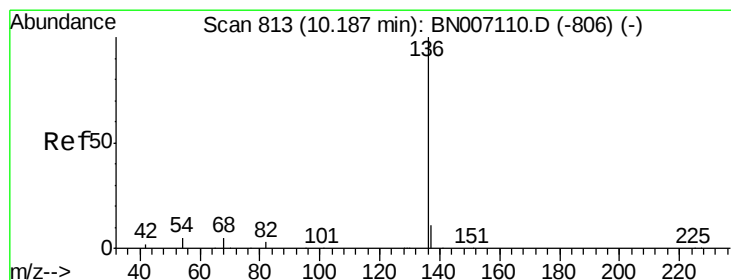
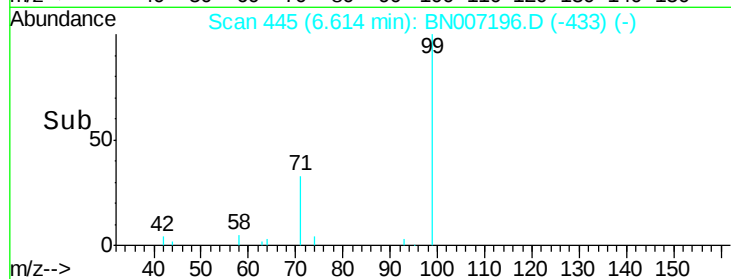
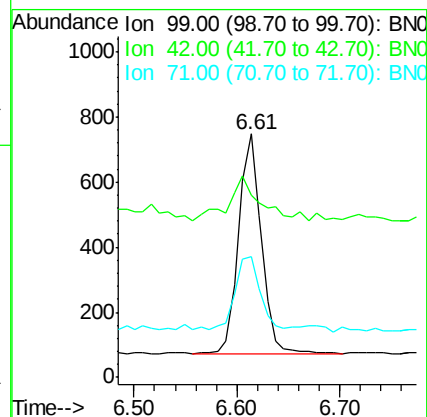
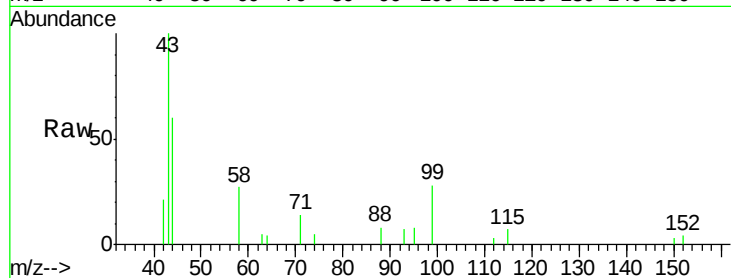
Tot Ion: 99 Resp: 1037

Ion Ratio Lower Upper

99 100

42 26.7 15.8 23.6#

71 36.4 27.0 40.4



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

Tgt Ion: 136 Resp: 32081

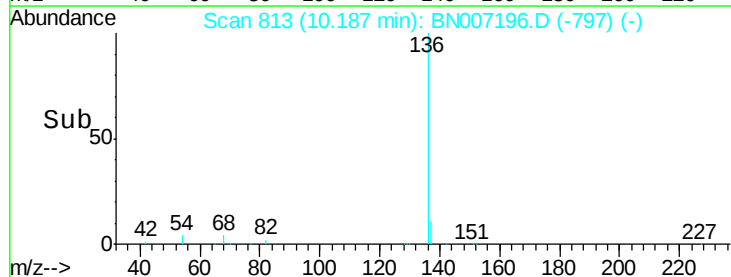
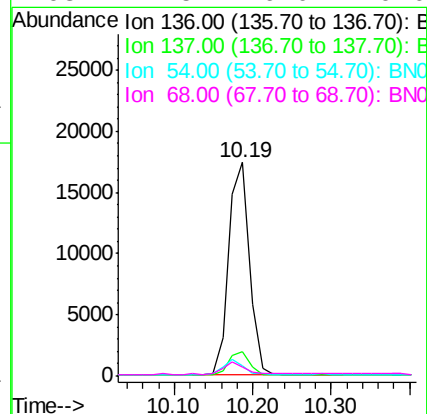
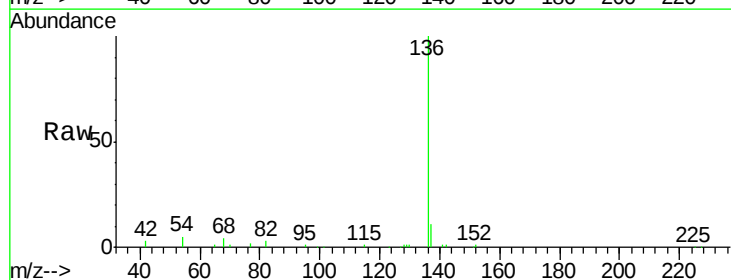
Ion Ratio Lower Upper

136 100

137 11.4 9.4 14.0

54 4.6 6.6 9.8#

68 4.5 6.0 9.0#





#7

Nitrobenzene-d5

Concen: 0.035 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

Instrument :

BNA_N

ClientSampled :

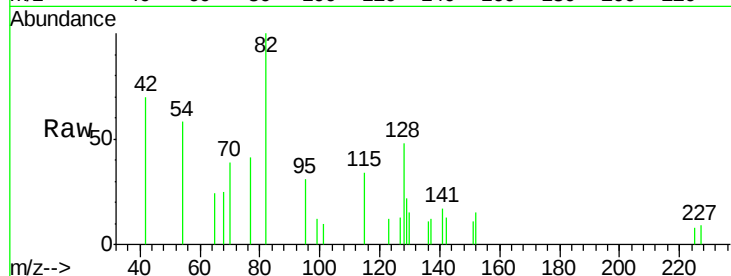
Tot Ion: 82 Resp: 911

Ion Ratio Lower Upper

82 100

128 47.5 34.6 51.8

54 57.8 36.2 54.4#

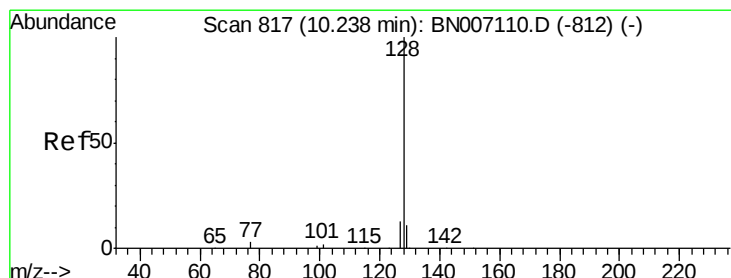
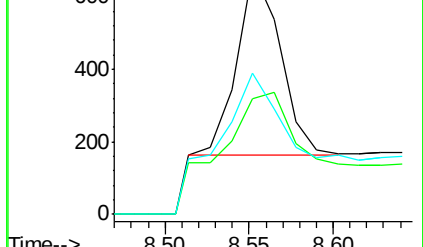
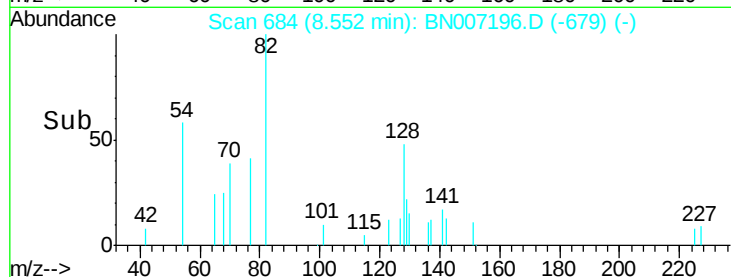


Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

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: 0.065 ng

RT: 10.23 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

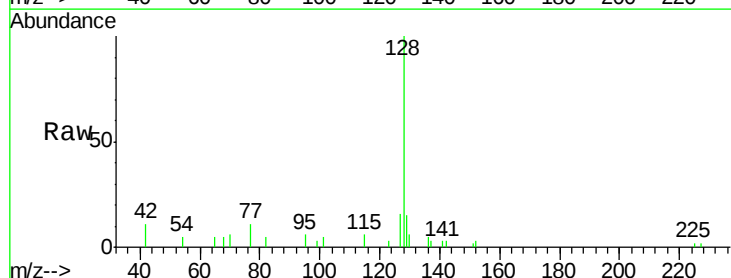
Tgt Ion: 128 Resp: 5856

Ion Ratio Lower Upper

128 100

129 15.3 9.4 14.2#

127 15.9 11.0 16.6

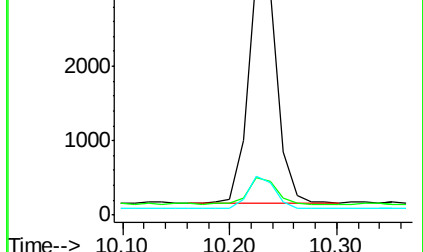
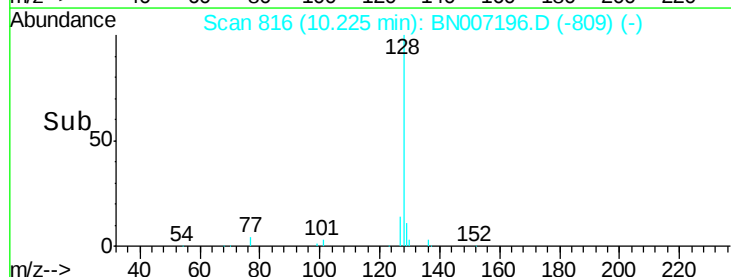


Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

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: 0.031 ng

RT: 11.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

Instrument :

BNA_N

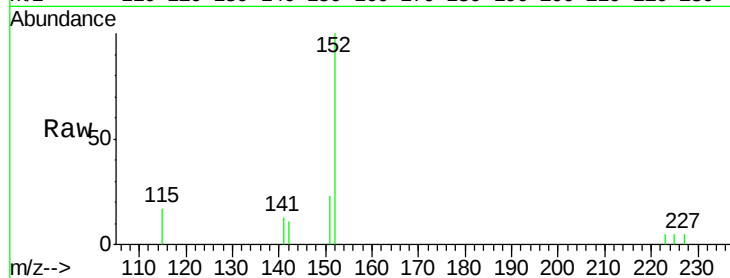
ClientSampleId :

Tot Ion:152 Resp: 1875

Ion Ratio Lower Upper

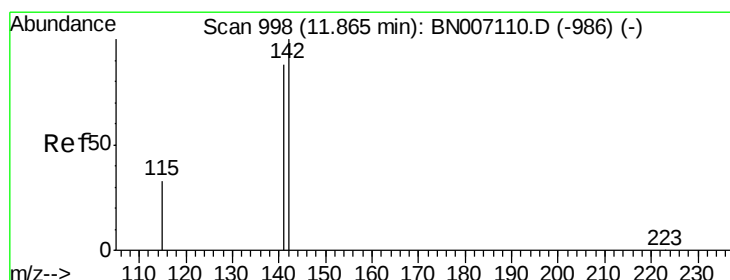
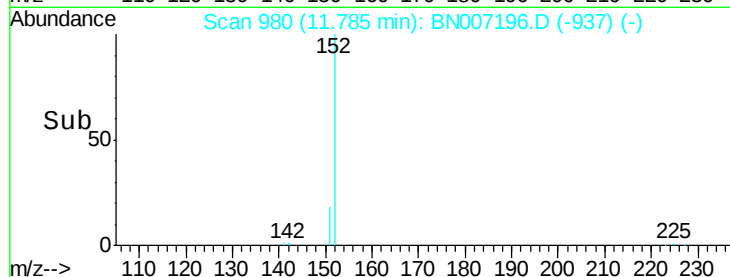
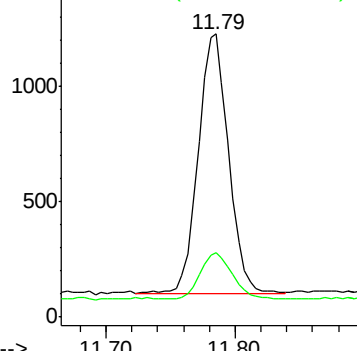
152 100

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: 0.054 ng

RT: 11.86 min Scan# 996

Delta R.T. -0.01 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

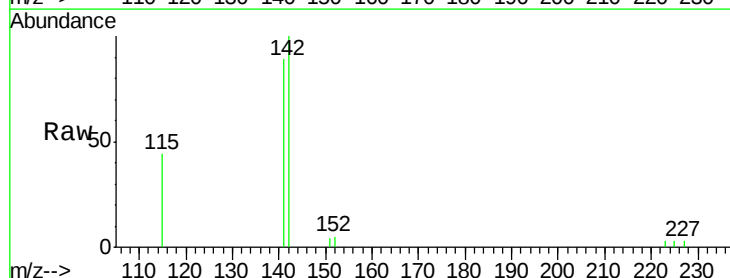
Tgt Ion:142 Resp: 3410

Ion Ratio Lower Upper

142 100

141 89.2 69.0 103.6

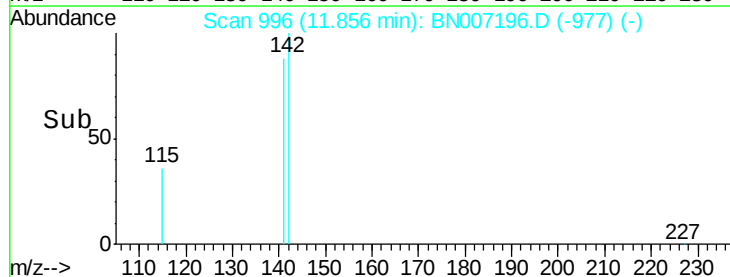
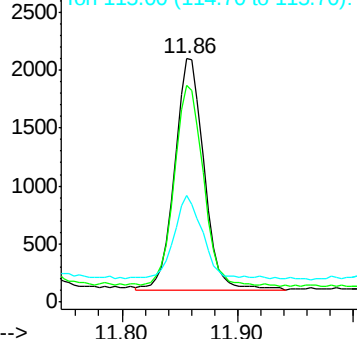
115 43.6 27.1 40.7#



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





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

Instrument :

BNA_N

ClientSampleId :

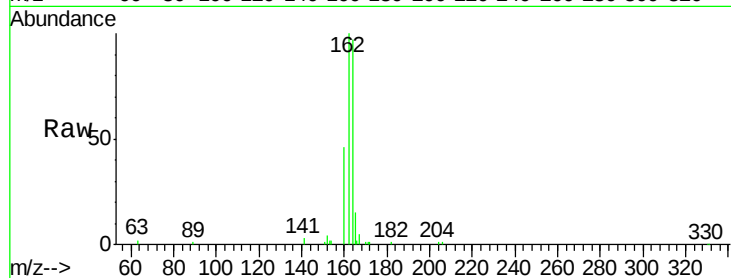
Tot Ion:164 Resp: 18515

Ion Ratio Lower Upper

164 100

162 103.3 82.2 123.4

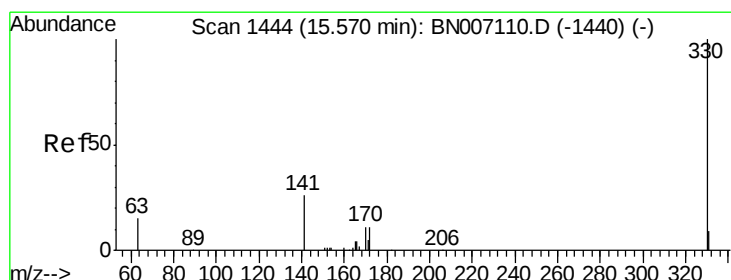
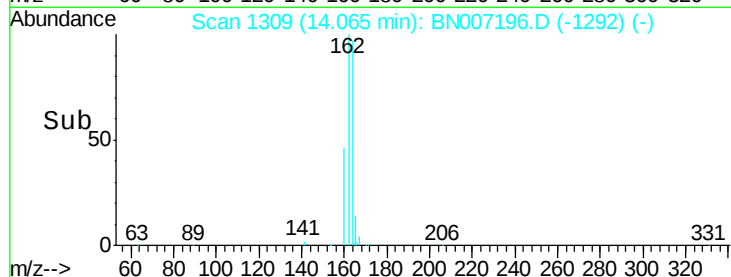
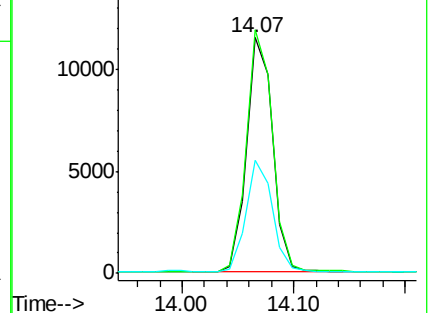
160 47.8 38.3 57.5



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: 0.030 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

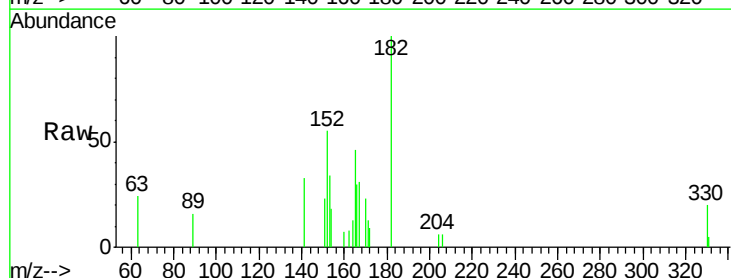
Tgt Ion:330 Resp: 296

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

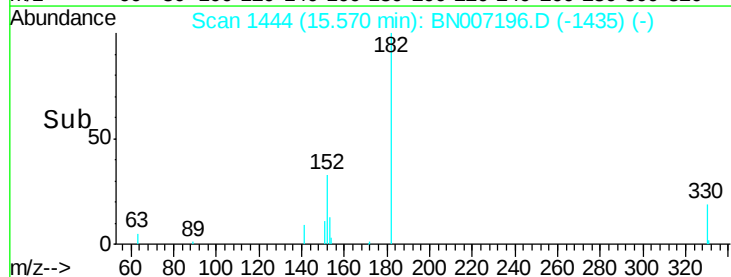
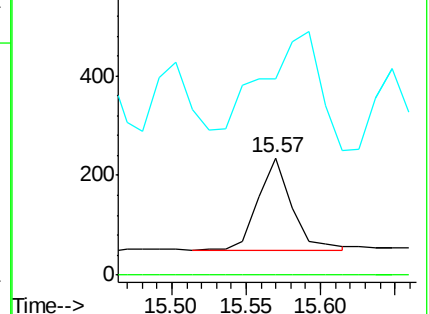
141 0.0 33.6 50.4#



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

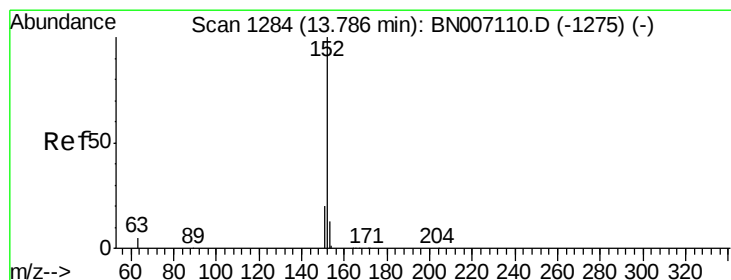
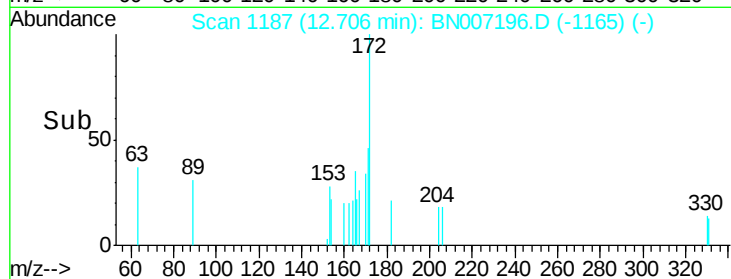
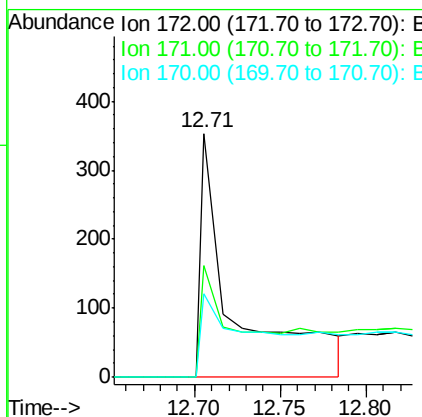
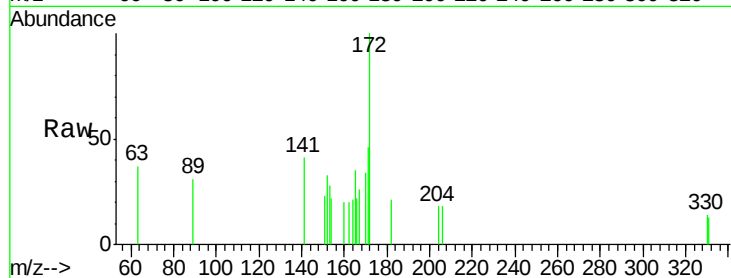




#14
2-Fluorobiphenyl
Concen: 0.018 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007196.D
Acq: 15 Aug 2019 14:57

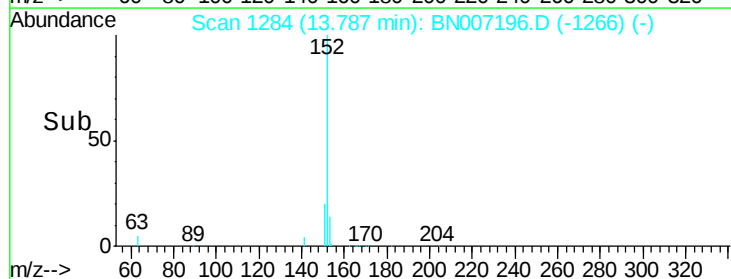
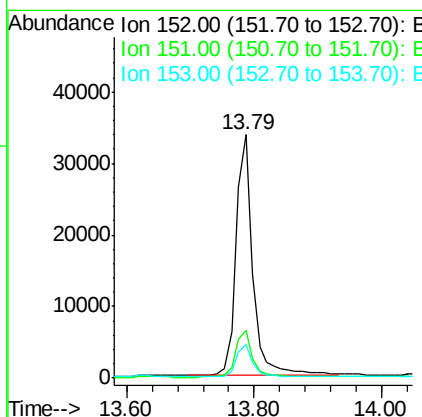
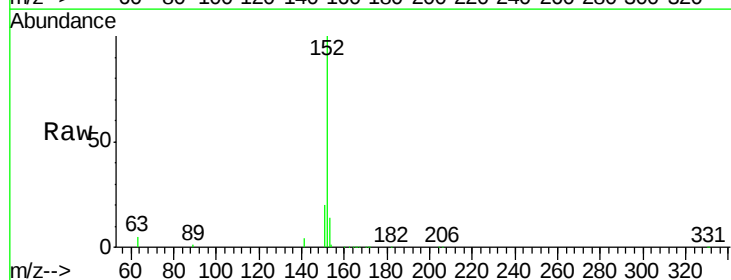
Instrument :
BNA_N
ClientSampleId :

Tot Ion:172 Resp: 483
Ion Ratio Lower Upper
172 100
171 45.9 26.3 39.5#
170 34.3 17.0 25.4#



#15
Acenaphthylene
Concen: 0.650 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007196.D
Acq: 15 Aug 2019 14:57

Tgt Ion:152 Resp: 62902
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.6
153 13.4 10.4 15.6





#16

Acenaphthene

Concen: 0.119 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

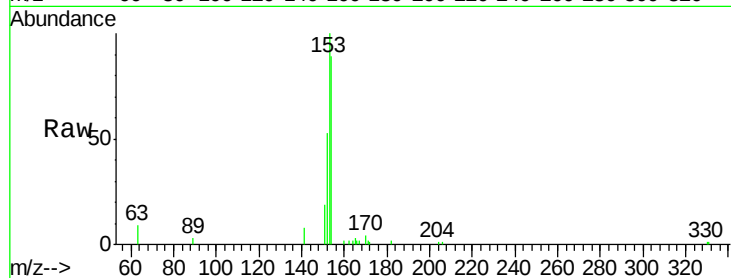
Instrument :

BNA_N

ClientSampleId :

Tot Ion:154 Resp: 7391

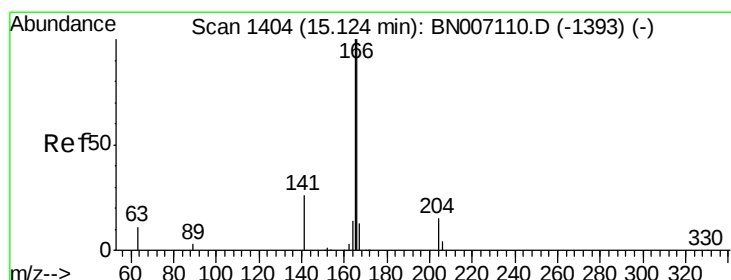
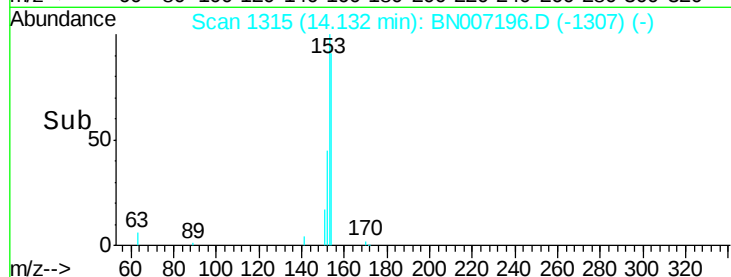
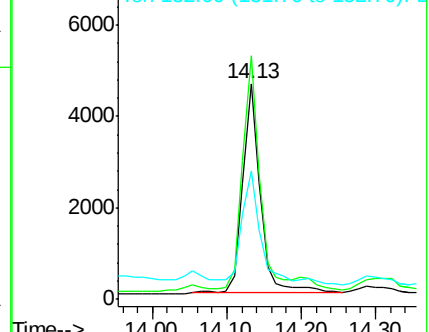
Ion	Ratio	Lower	Upper
154	100		
153	108.4	89.5	134.3
152	50.5	44.8	67.2



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: 0.149 ng

RT: 15.12 min Scan# 1404

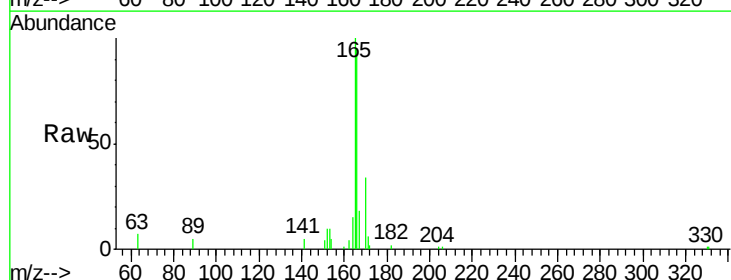
Delta R.T. -0.01 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

Tgt Ion:166 Resp: 13785

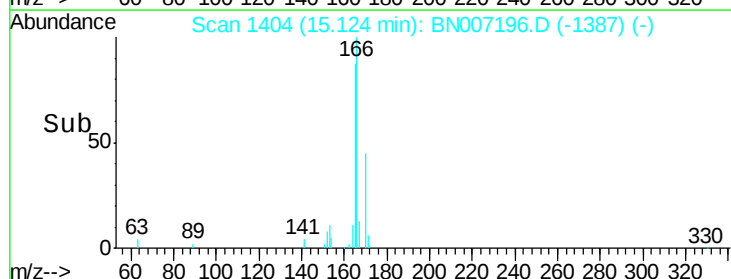
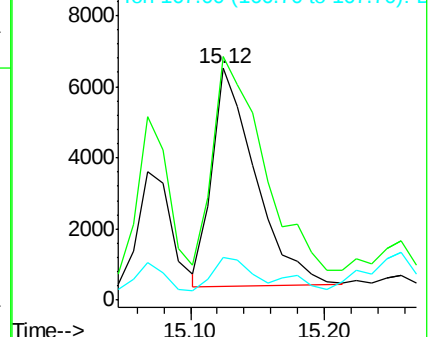
Ion	Ratio	Lower	Upper
166	100		
165	116.3	77.9	116.9
167	13.8	10.9	16.3

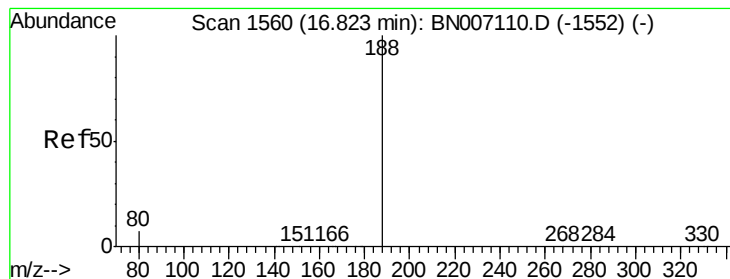


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

Instrument :

BNA_N

ClientSampleId :

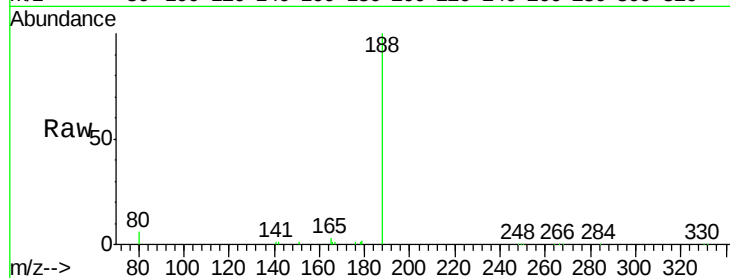
Tot Ion:188 Resp: 44487

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

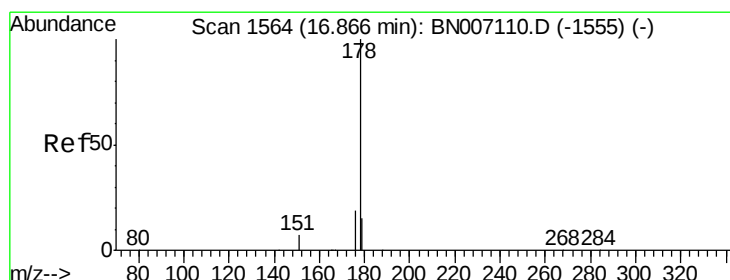
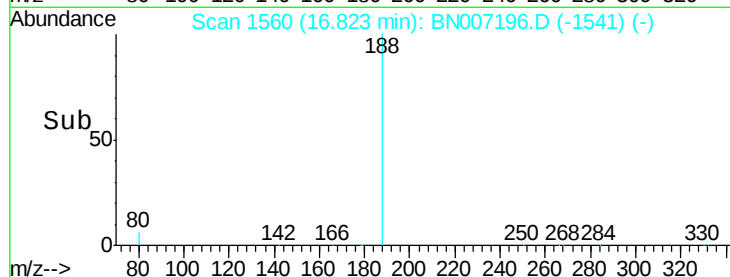
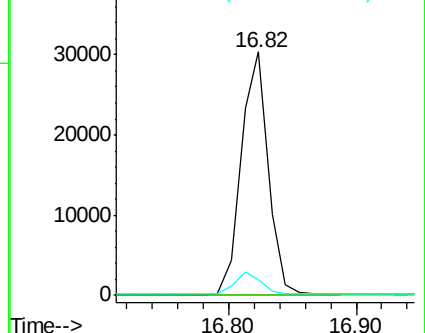
80 6.3 7.8 11.6#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#22

Phenanthrene

Concen: 2.268 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

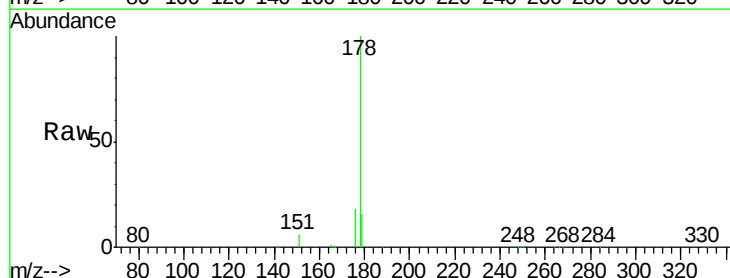
Tgt Ion:178 Resp: 302423

Ion Ratio Lower Upper

178 100

176 18.8 15.2 22.8

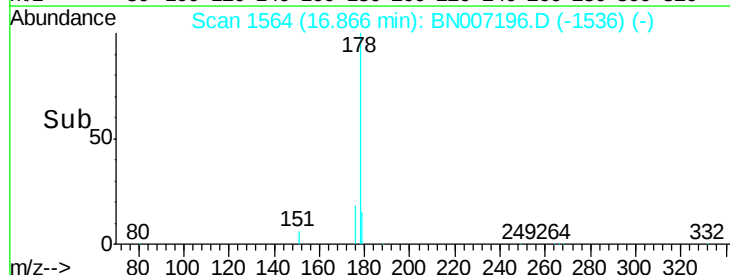
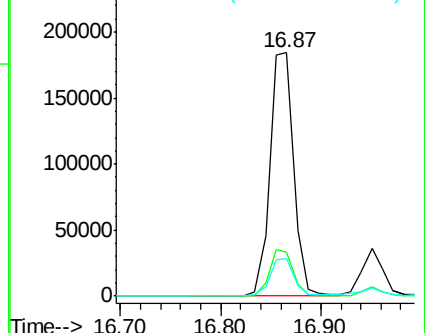
179 15.6 12.3 18.5



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 0.405 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

Instrument :

BNA_N

ClientSampleId :

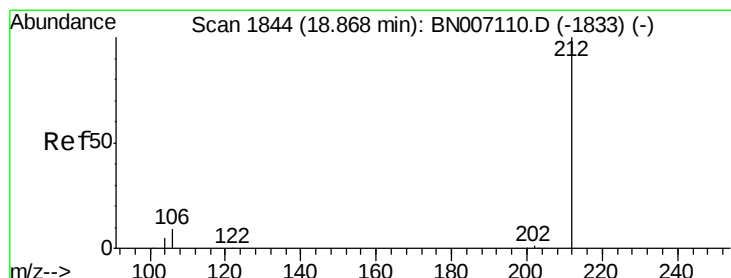
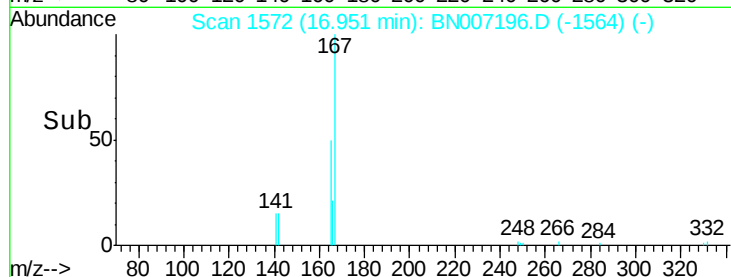
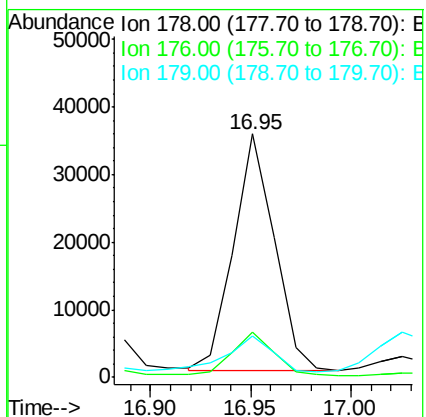
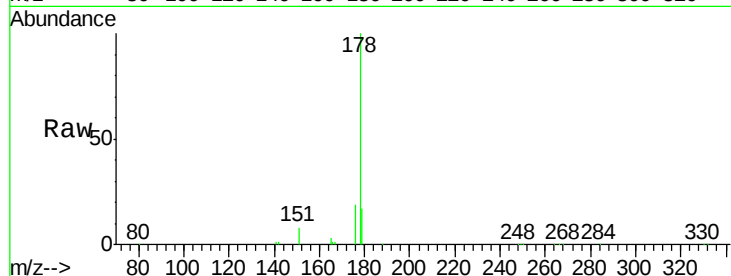
Tot Ion:178 Resp: 49339

Ion Ratio Lower Upper

178 100

176 18.4 14.6 21.8

179 17.9 12.5 18.7



#24

Fluoranthene-d10

Concen: 0.038 ng

RT: 18.86 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

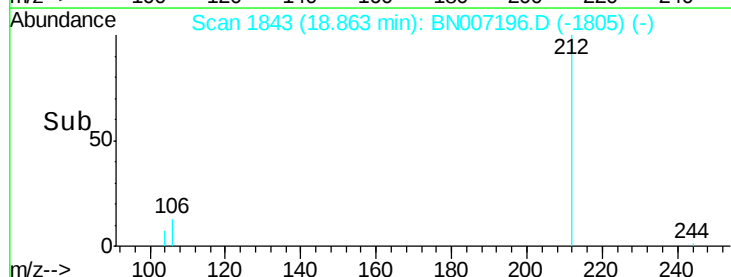
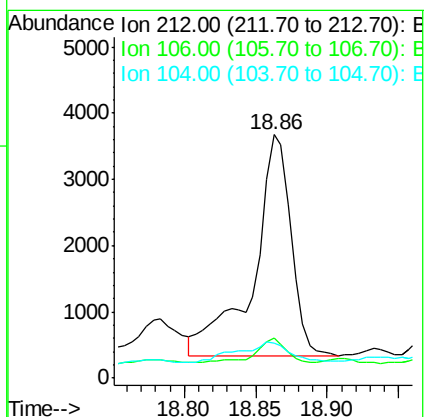
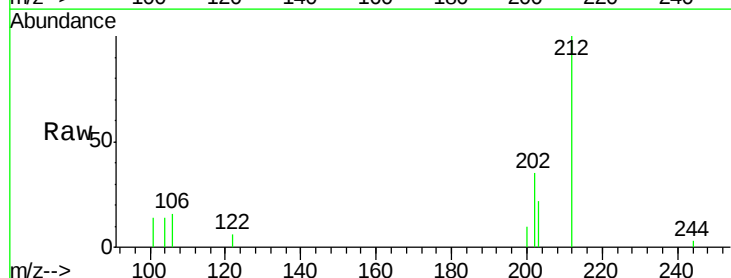
Tgt Ion:212 Resp: 6028

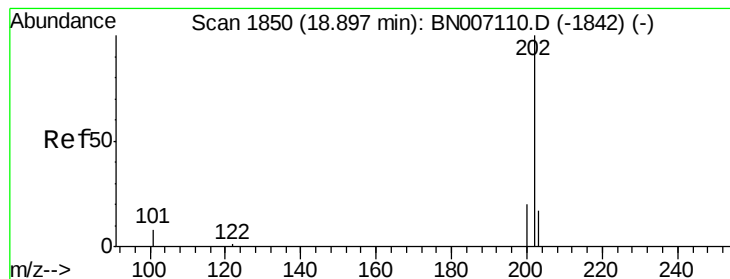
Ion Ratio Lower Upper

212 100

106 9.7 8.2 12.2

104 13.2 4.5 6.7#





#25

Fluoranthene

Concen: 3.233 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

Instrument :

BNA_N

ClientSampleId :

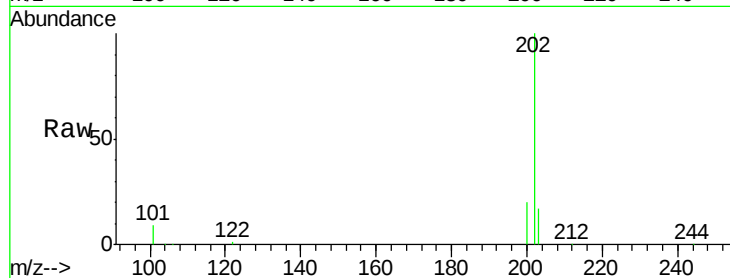
Tot Ion:202 Resp: 551359

Ion Ratio Lower Upper

202 100

101 9.0 7.0 10.4

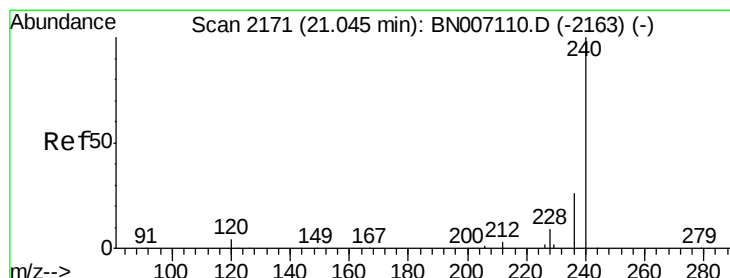
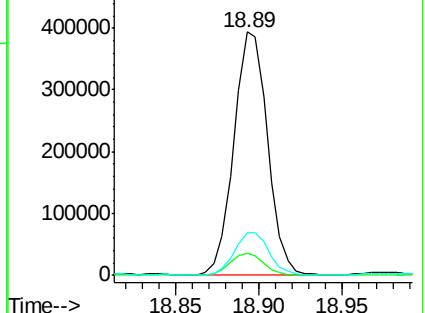
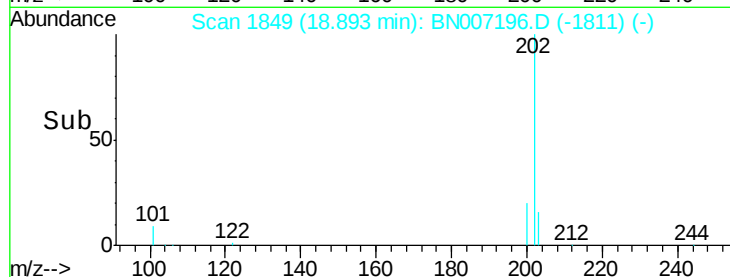
203 17.7 13.8 20.8



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: BN007196.D

Acq: 15 Aug 2019 14:57

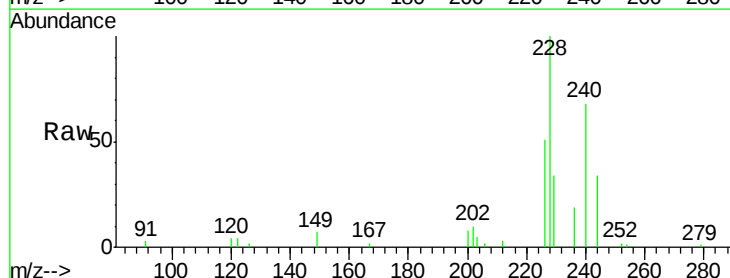
Tgt Ion:240 Resp: 45424

Ion Ratio Lower Upper

240 100

120 6.1 4.0 6.0#

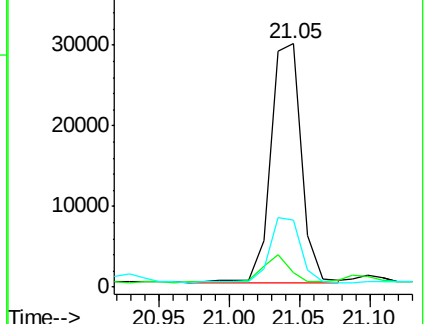
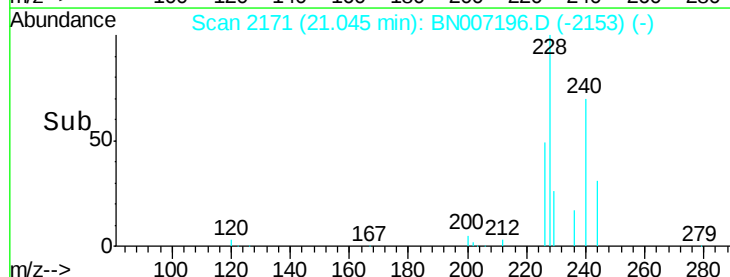
236 27.6 21.3 31.9



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

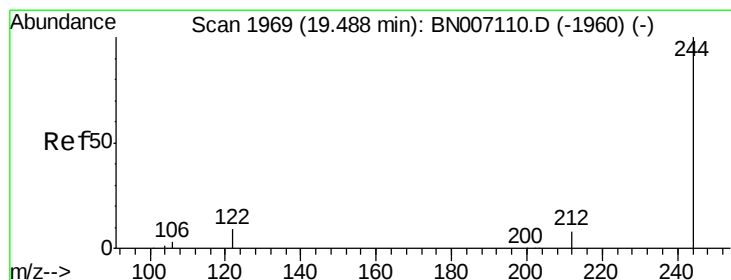
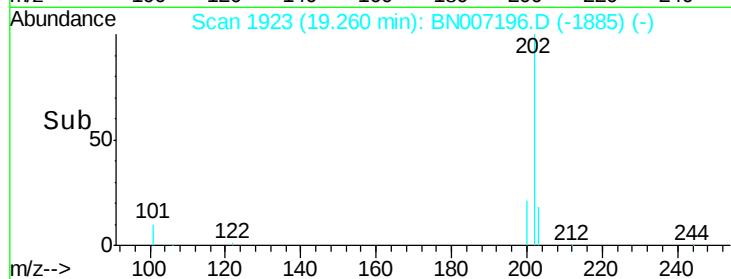
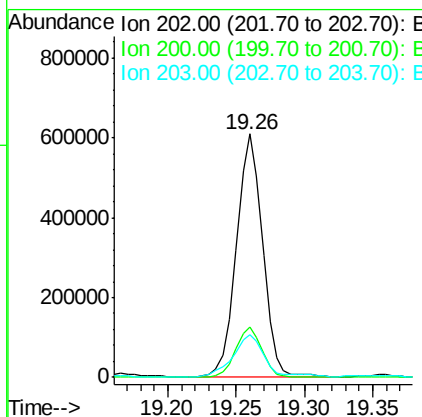
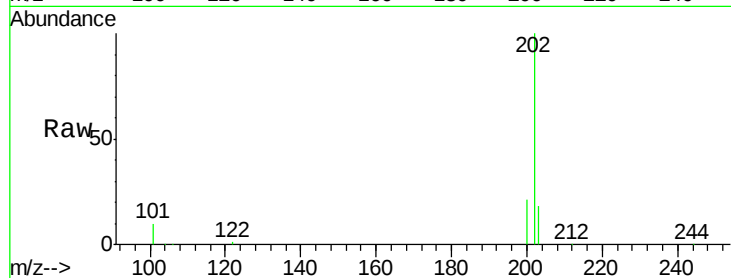




#27
Pvrene
Concen: 5.061 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007196.D
Acq: 15 Aug 2019 14:57

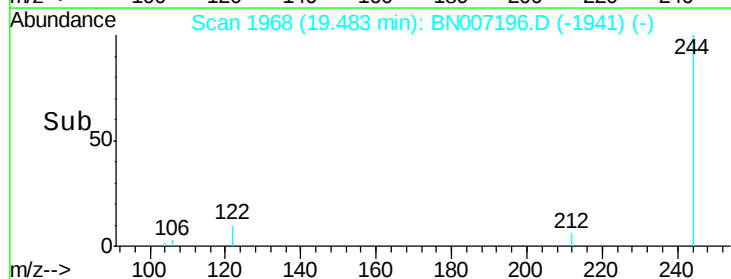
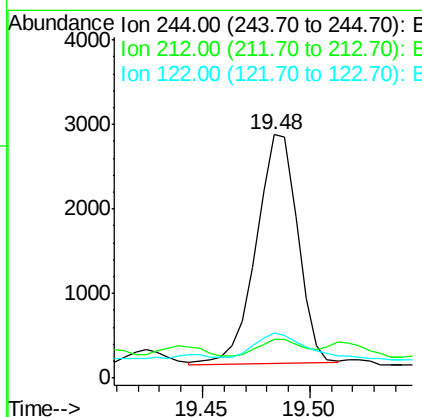
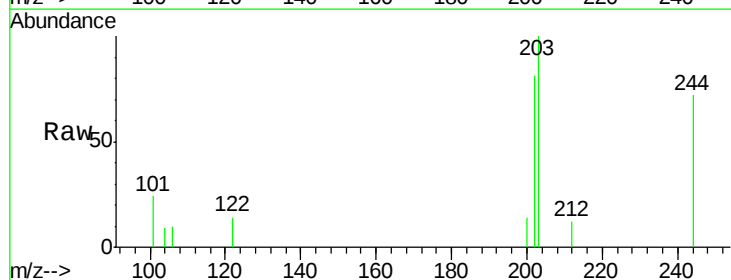
Instrument :
BNA_N
ClientSampleId :

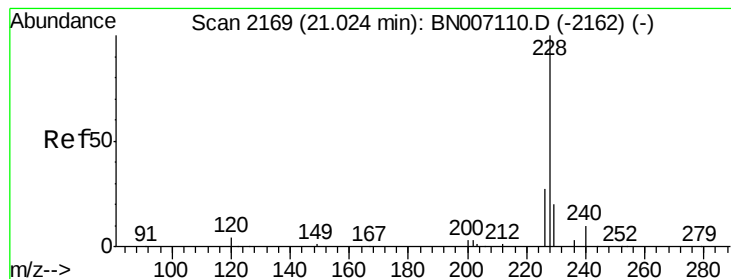
Tot Ion:202 Resp: 806243
Ion Ratio Lower Upper
202 100
200 20.8 16.6 24.8
203 20.0 14.0 21.0



#28
Terphenyl-d14
Concen: 0.029 ng
RT: 19.48 min Scan# 1968
Delta R.T. -0.01 min
Lab File: BN007196.D
Acq: 15 Aug 2019 14:57

Tgt Ion:244 Resp: 3642
Ion Ratio Lower Upper
244 100
212 16.0 6.2 9.2#
122 18.7 7.4 11.2#





#29

Benzo(a)anthracene

Concen: 2.591 ng

RT: 21.08 min Scan# 2174

Delta R.T. 0.04 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

Instrument :

BNA_N

ClientSampleId :

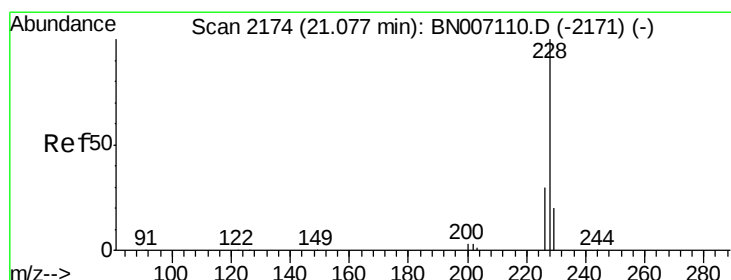
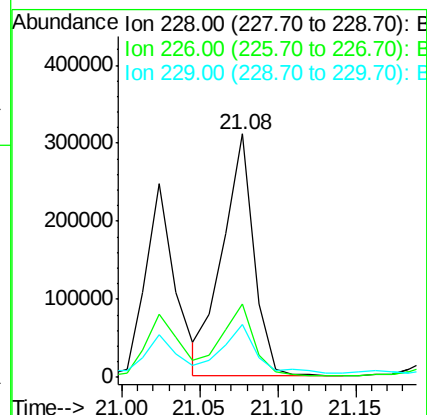
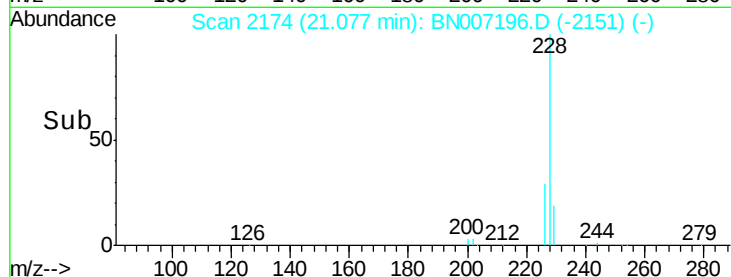
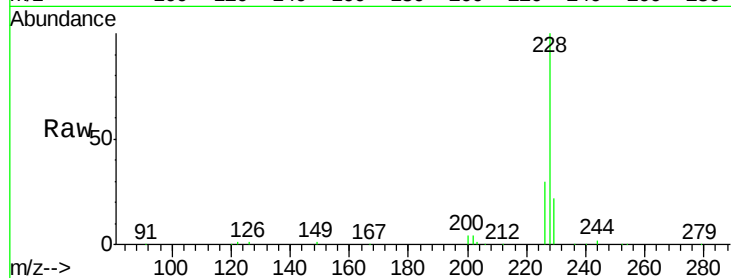
Tot Ion:228 Resp: 430411

Ion Ratio Lower Upper

228 100

226 30.0 21.8 32.6

229 21.7 15.6 23.4



#30

Chrysene

Concen: 2.667 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

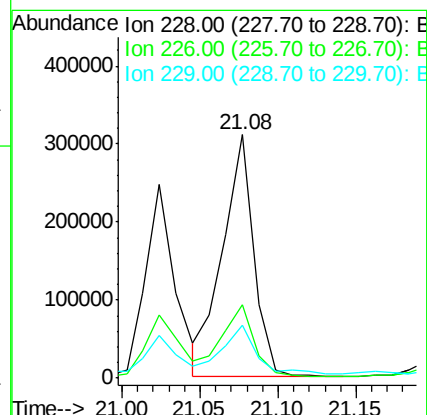
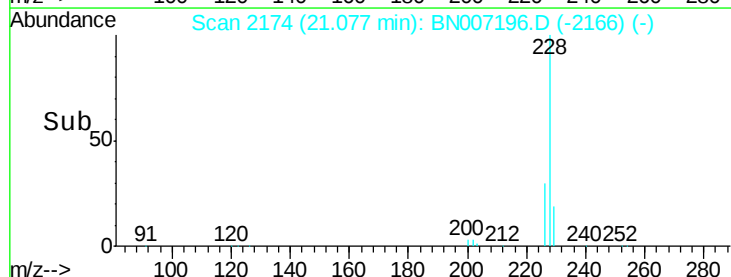
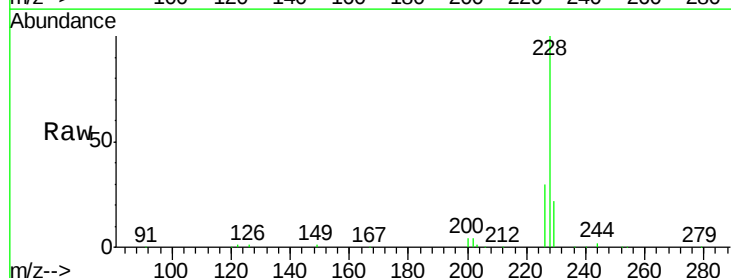
Tgt Ion:228 Resp: 430411

Ion Ratio Lower Upper

228 100

226 30.0 23.8 35.6

229 21.7 15.7 23.5

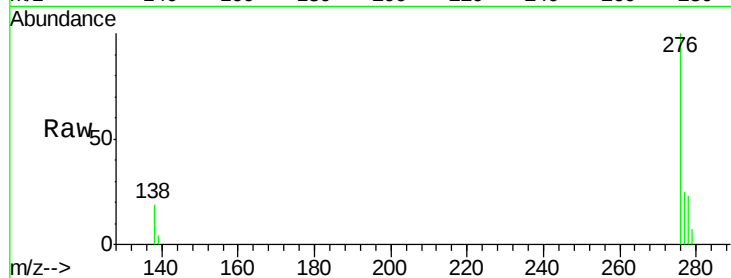




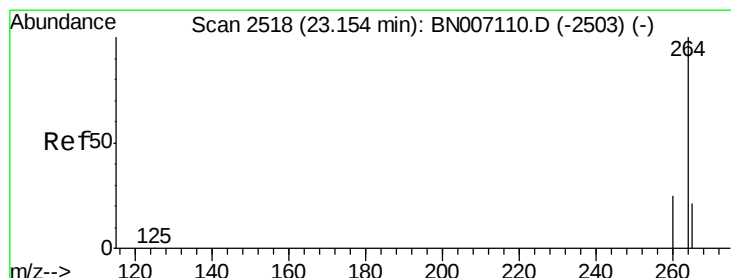
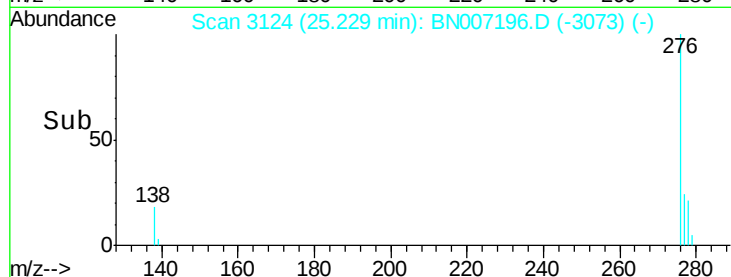
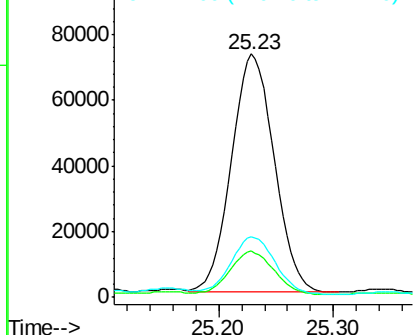
#31
 Indeno(1,2,3-cd)pyrene
 Concen: 1.057 ng
 RT: 25.23 min Scan# 3124
 Delta R.T. -0.02 min
 Lab File: BN007196.D
 Acq: 15 Aug 2019 14:57

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.7	16.0	24.0
277	24.9	19.9	29.9

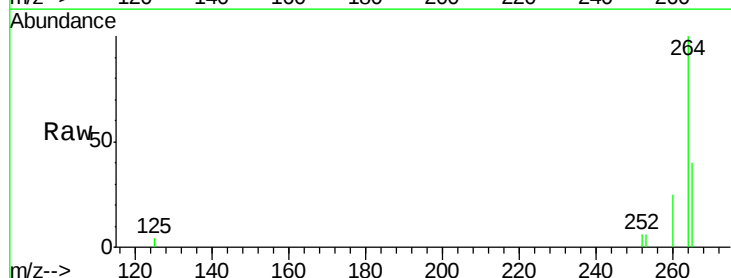


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

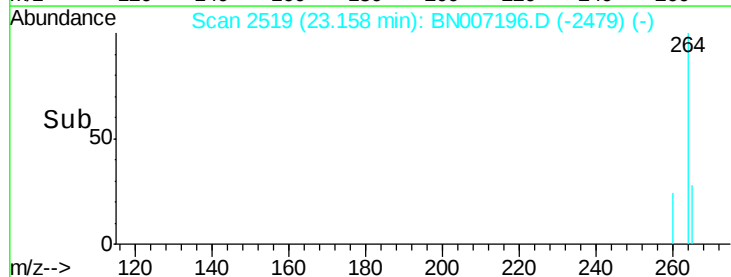
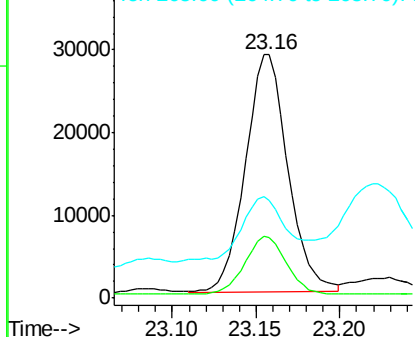


#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.16 min Scan# 2519
 Delta R.T. -0.01 min
 Lab File: BN007196.D
 Acq: 15 Aug 2019 14:57

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.8	29.8
265	40.1	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

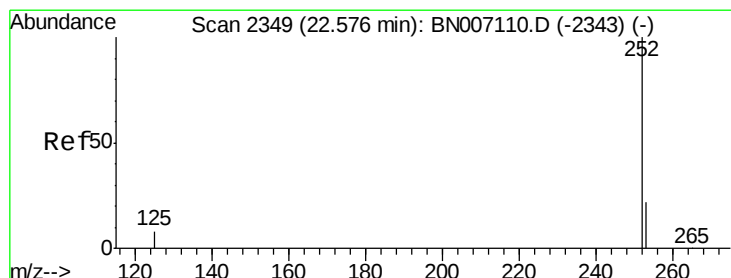
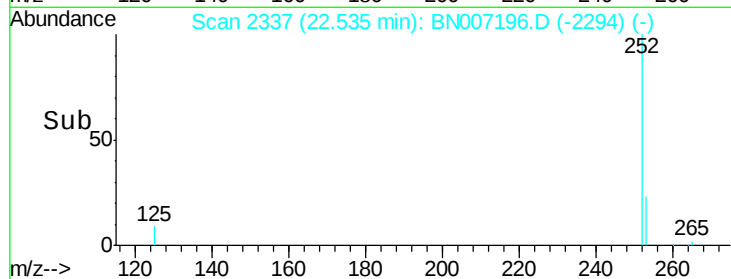
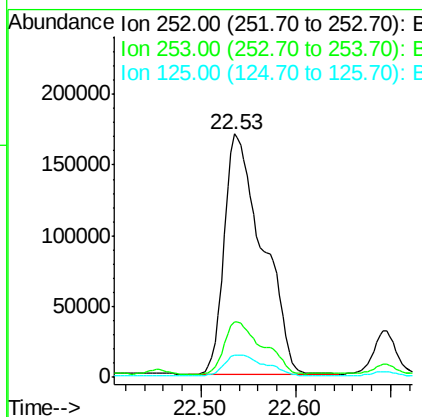
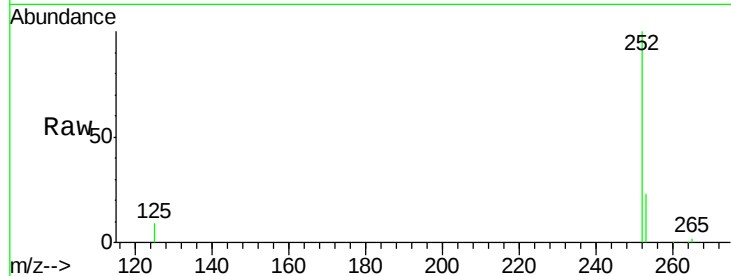




#33
Benzo(b)fluoranthene
Concen: 2.745 ng
RT: 22.53 min Scan# 2337
Delta R.T. -0.01 min
Lab File: BN007196.D
Acq: 15 Aug 2019 14:57

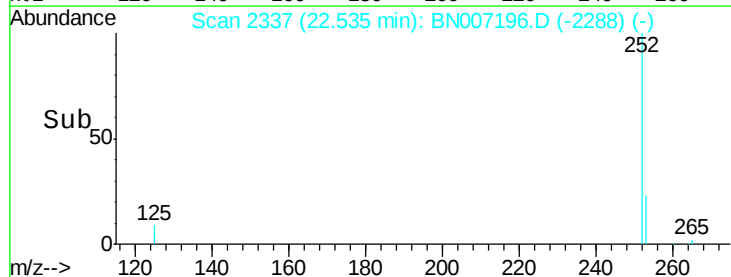
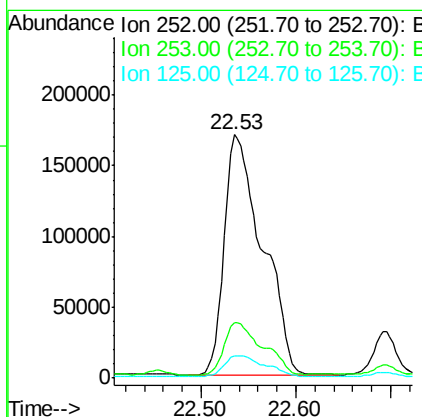
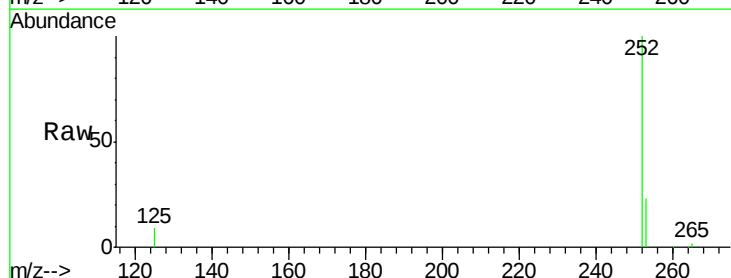
Instrument :
BNA_N
ClientSampleId :

Tot Ion:252 Resp: 477884
Ion Ratio Lower Upper
252 100
253 23.0 18.2 27.2
125 9.2 7.4 11.0



#34
Benzo(k)fluoranthene
Concen: 2.780 ng
RT: 22.53 min Scan# 2337
Delta R.T. -0.05 min
Lab File: BN007196.D
Acq: 15 Aug 2019 14:57

Tgt Ion:252 Resp: 478073
Ion Ratio Lower Upper
252 100
253 23.0 18.1 27.1
125 9.2 7.4 11.0





#35

Benzo(a)pyrene

Concen: 1.917 ng

RT: 23.07 min Scan# 2492

Delta R.T. -0.02 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

Instrument :

BNA_N

ClientSampled :

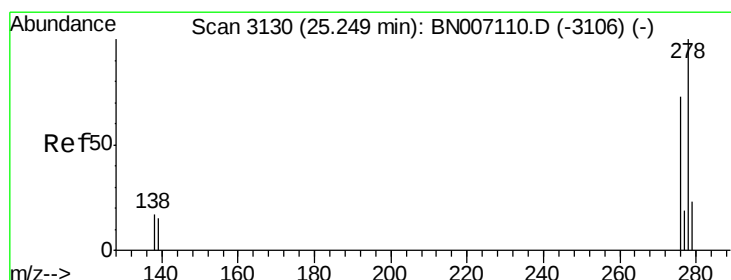
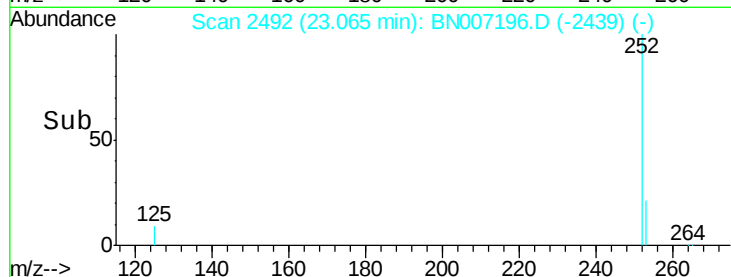
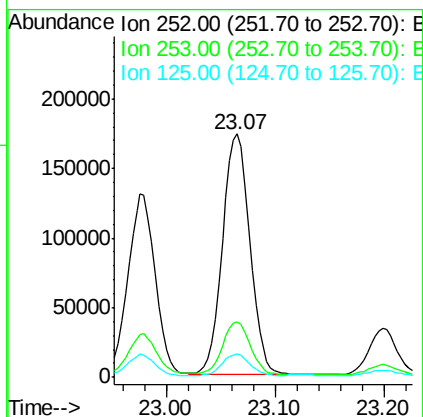
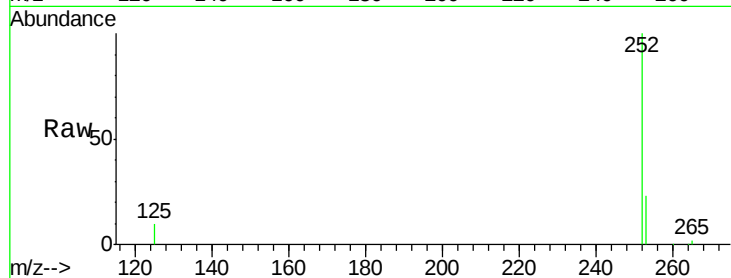
Tot Ion:252 Resp: 302613

Ion Ratio Lower Upper

252 100

253 22.8 18.5 27.7

125 9.6 8.2 12.4



#36

Dibenzo(a,h)anthracene

Concen: 0.344 ng

RT: 25.24 min Scan# 3127

Delta R.T. -0.03 min

Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

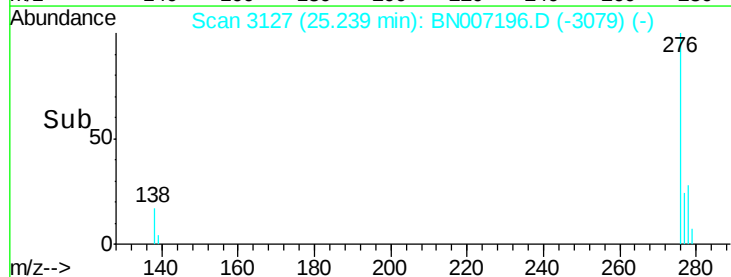
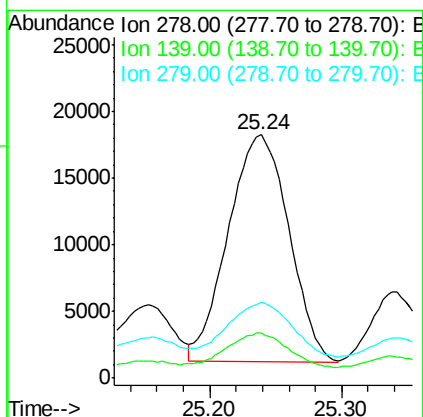
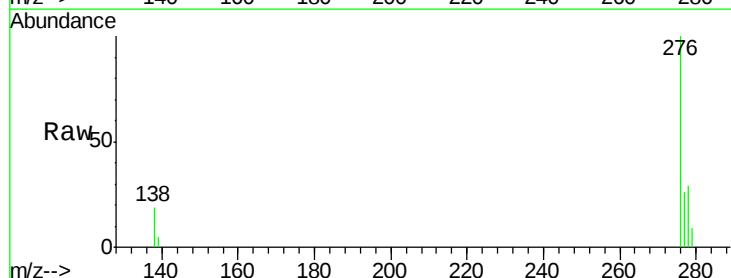
Tgt Ion:278 Resp: 54182

Ion Ratio Lower Upper

278 100

139 18.3 11.3 16.9#

279 31.0 19.3 28.9#





#37

Benzo(a,h,i)perylene

Concen: 1.287 ng

RT: 25.86 min Scan# 3308

Delta R.T. -0.02 min

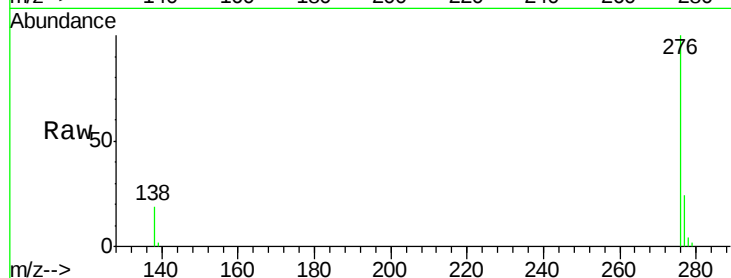
Lab File: BN007196.D

Acq: 15 Aug 2019 14:57

Instrument :

BNA_N

ClientSampleId :



Tot Ion: 276 Resp: 208577

Ion Ratio Lower Upper

276 100

277 24.5 19.8 29.8

138 19.4 14.6 22.0

