

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081519\
 Data File : BN007208.D
 Acq On : 15 Aug 2019 22:10
 Operator : HP/JU
 Sample : K4239-14DL 50X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 16 07:06:52 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	7032	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	27341	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	15606	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	36797	0.40	ng	0.00
26) Chrysene-d12	21.05	240	37272	0.40	ng	-0.01
32) Perylene-d12	23.16	264	41117	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.05	112	148	0.01	ng	0.00
4) Phenol-d6	6.61	99	163	0.01	ng	0.00
7) Nitrobenzene-d5	8.55	82	151	0.01	ng	-0.01
10) 2-Methylnaphthalene-d10	11.79	152	243	0.00	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	36	0.00	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	212	0.01	ng	0.00
24) Fluoranthene-d10	18.78	212	1136	0.01	ng	-0.09
28) Terphenyl-d14	19.48	244	817	0.01	ng	-0.02

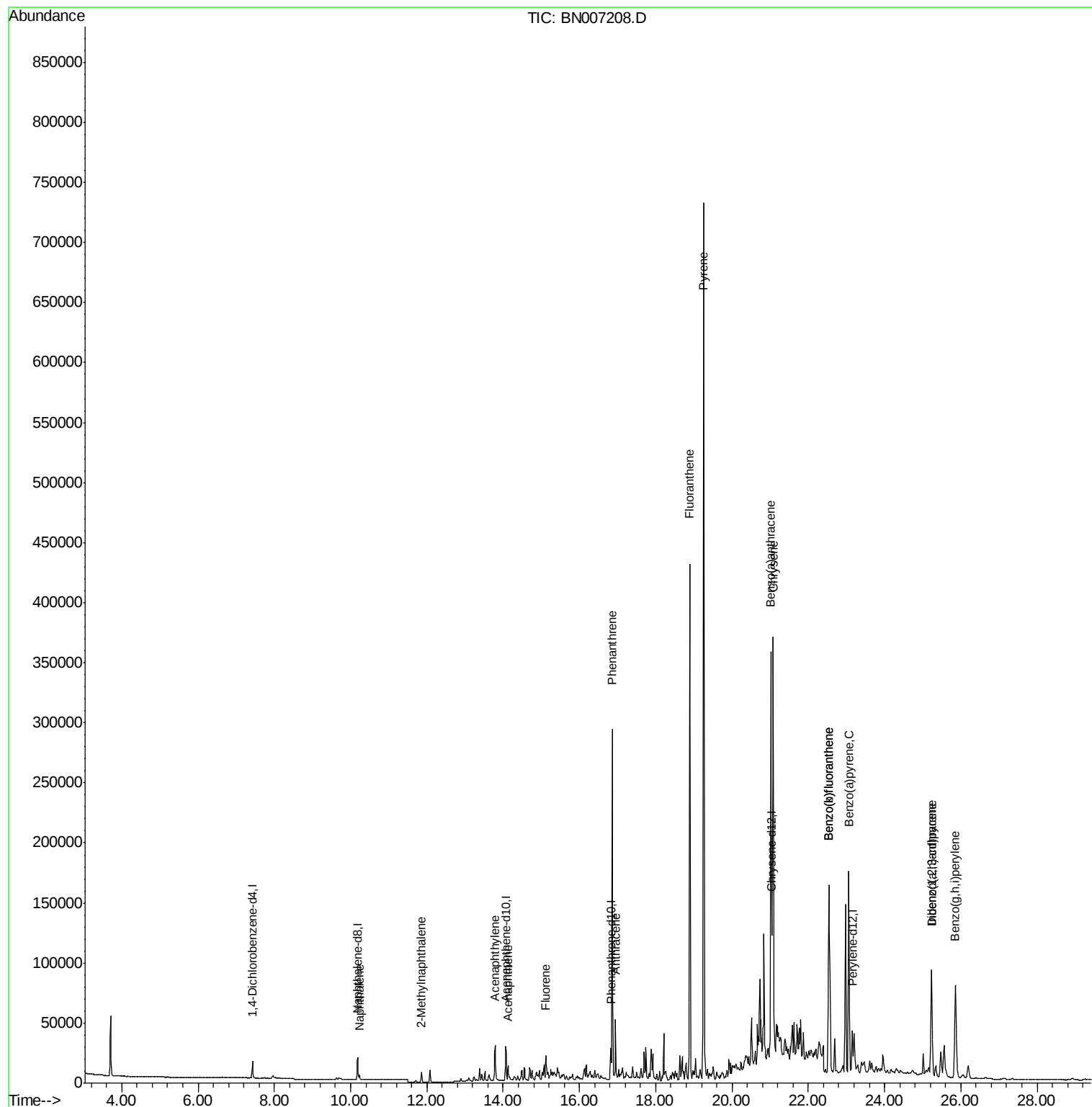
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.22	128	5458	0.071	ng	# 95
11) 2-Methylnaphthalene	11.86	142	6666	0.123	ng	95
15) Acenaphthylene	13.79	152	39076	0.479	ng	99
16) Acenaphthene	14.13	154	6234	0.119	ng	92
17) Fluorene	15.12	166	12665	0.162	ng	# 84
22) Phenanthrene	16.87	178	342320	3.104	ng	100
23) Anthracene	16.95	178	47378	0.470	ng	98
25) Fluoranthene	18.90	202	406110	2.879	ng	99
27) Pyrene	19.26	202	664977	5.087	ng	97
29) Benzo(a)anthracene	21.02	228	273591	2.007	ng	94
30) Chrysene	21.08	228	321245	2.426	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	127910	0.876	ng	99
33) Benzo(b)fluoranthene	22.54	252	343966	2.440	ng	99
34) Benzo(k)fluoranthene	22.54	252	344211	2.472	ng	99
35) Benzo(a)pyrene	23.07	252	221796	1.735	ng	99
36) Dibenzo(a,h)anthracene	25.24	278	40626	0.319	ng	# 87
37) Benzo(a,h,i)perylene	25.86	276	156410	1.192	ng	99

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

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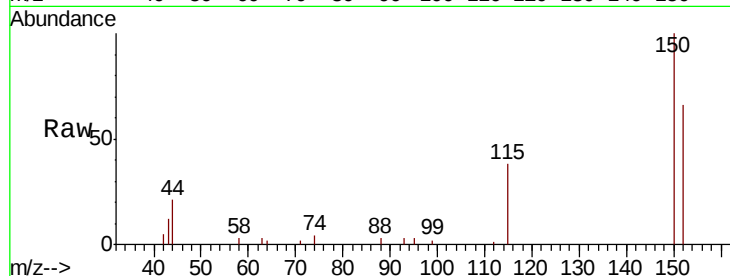


#1

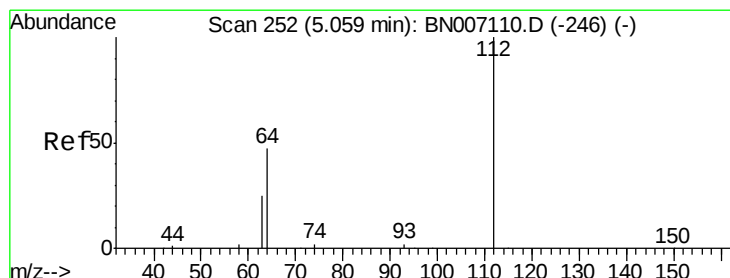
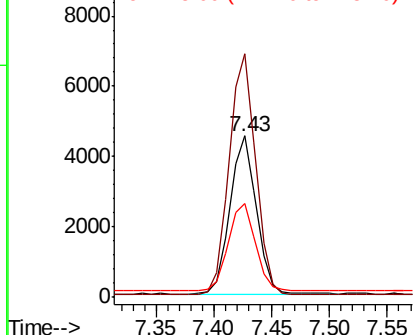
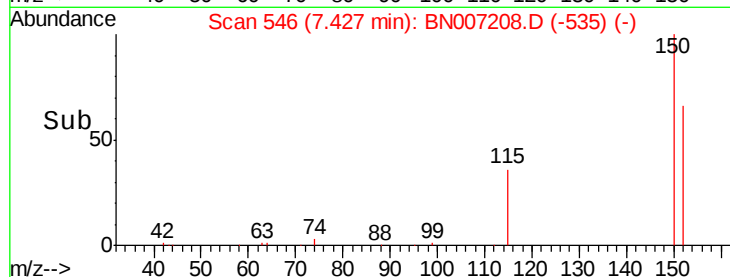
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007208.D
Acq: 15 Aug 2019 22:10

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 7032
Ion Ratio Lower Upper
152 100
150 150.6 121.7 182.5
115 58.0 46.2 69.4



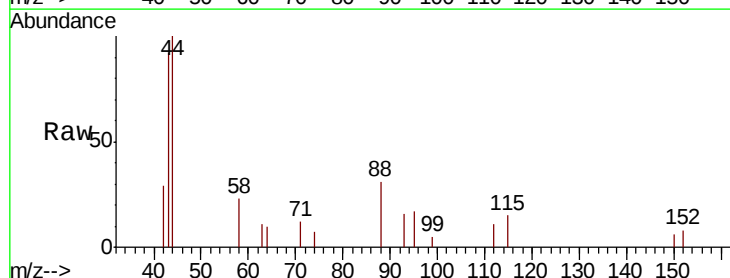
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



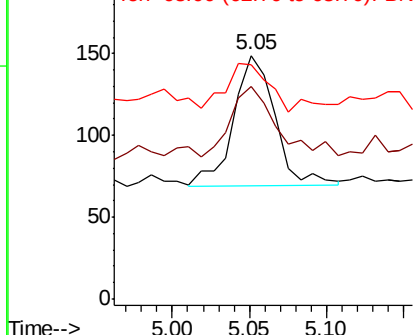
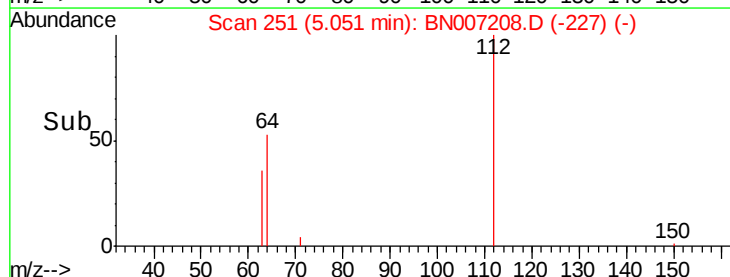
#3

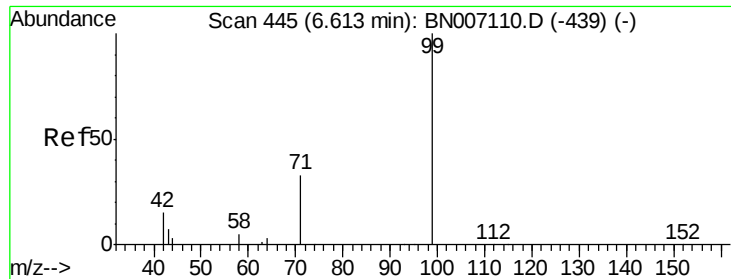
2-Fluorophenol
Concen: 0.009 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007208.D
Acq: 15 Aug 2019 22:10

Tgt Ion:112 Resp: 148
Ion Ratio Lower Upper
112 100
64 68.2 42.6 63.8#
63 38.5 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: 0.008 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

Instrument :

BNA_N

ClientSampleId :

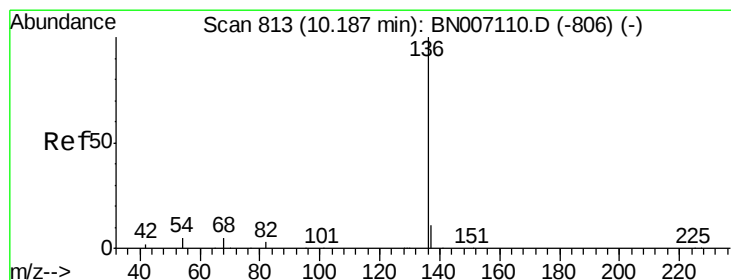
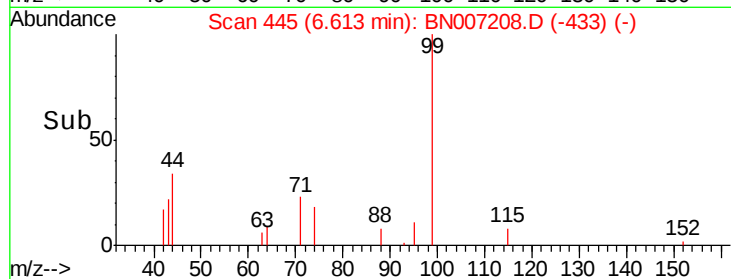
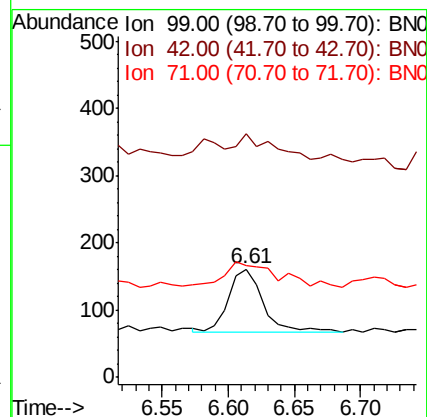
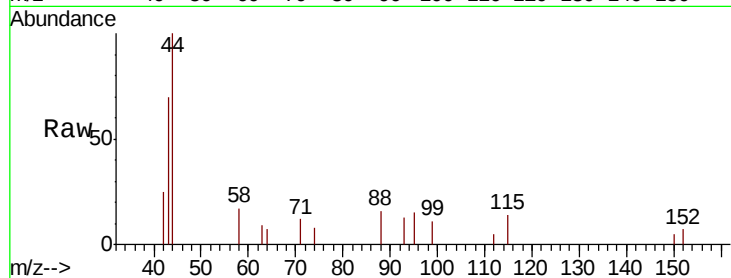
Tot Ion: 99 Resp: 163

Ion Ratio Lower Upper

99 100

42 42.3 15.8 23.6#

71 68.1 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: BN007208.D

Acq: 15 Aug 2019 22:10

Tgt Ion: 136 Resp: 27341

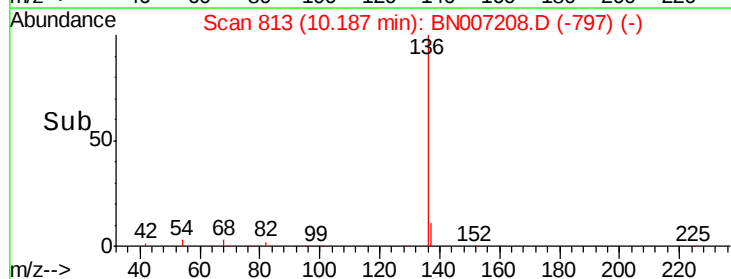
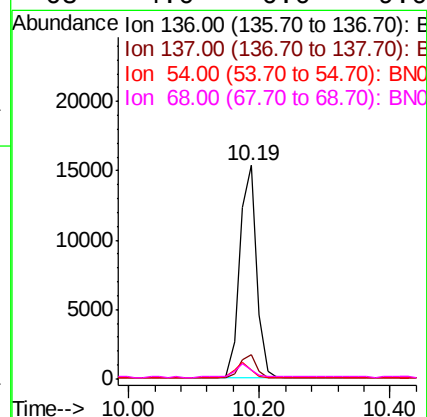
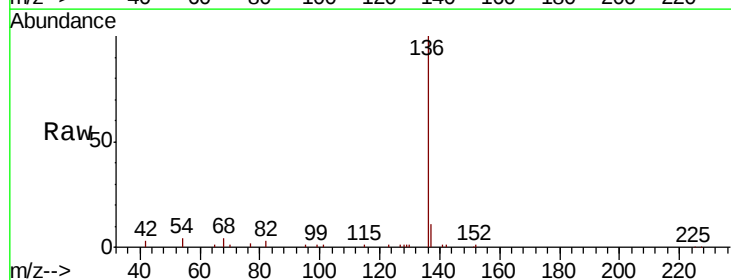
Ion Ratio Lower Upper

136 100

137 11.3 9.4 14.0

54 4.3 6.6 9.8#

68 4.0 6.0 9.0#





#7

Nitrobenzene-d5

Concen: 0.007 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

Instrument :

BNA_N

ClientSampleId :

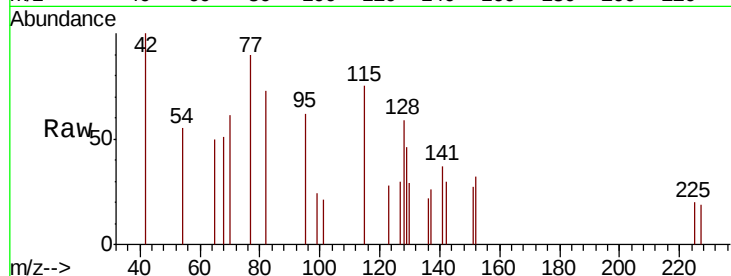
Tot Ion: 82 Resp: 151

Ion Ratio Lower Upper

82 100

128 80.8 34.6 51.8#

54 75.2 36.2 54.4#

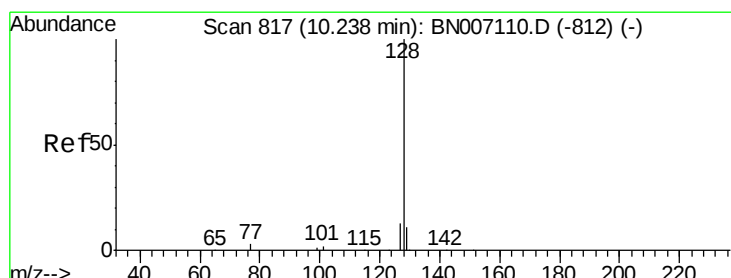
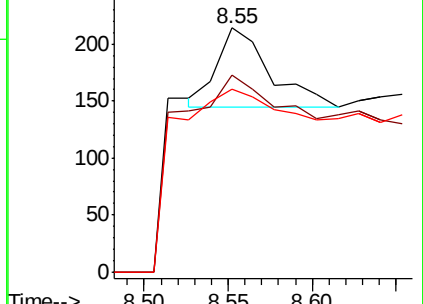
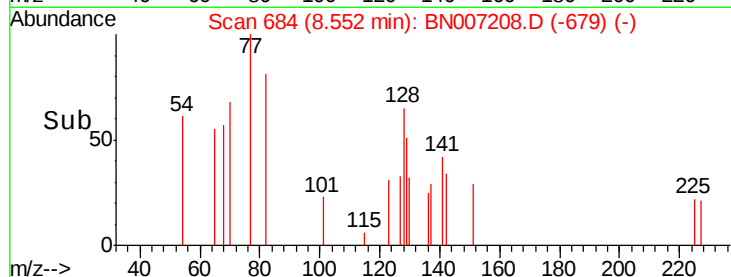


Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

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: 0.071 ng

RT: 10.22 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

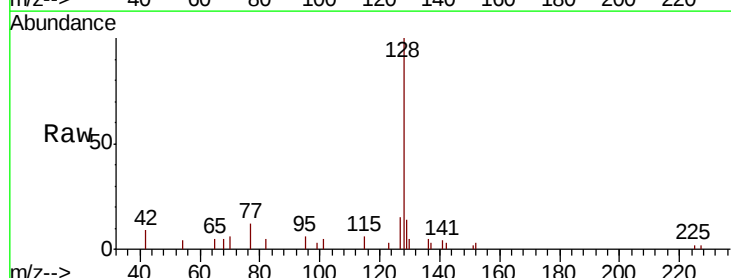
Tgt Ion: 128 Resp: 5458

Ion Ratio Lower Upper

128 100

129 14.5 9.4 14.2#

127 15.1 11.0 16.6

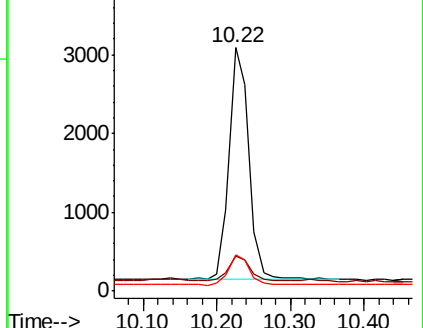
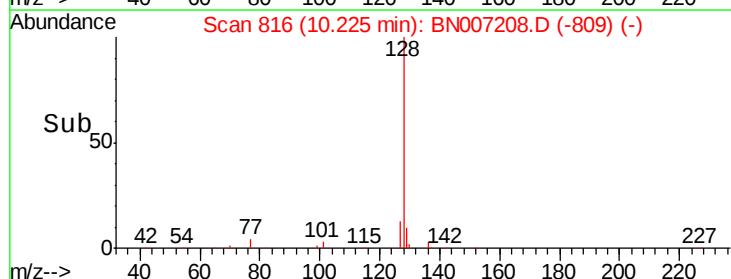


Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

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: 0.005 ng

RT: 11.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

Instrument :

BNA_N

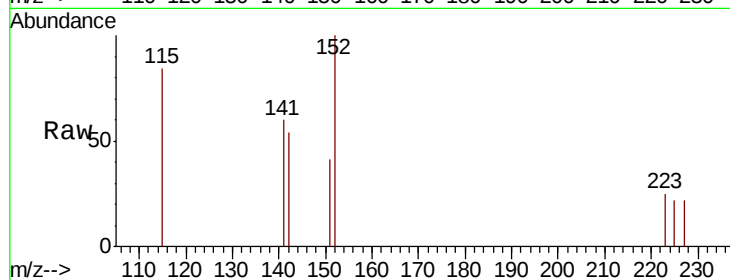
ClientSampled :

Tot Ion:152 Resp: 243

Ion Ratio Lower Upper

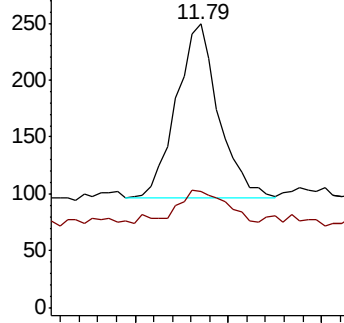
152 100

151 19.8 15.5 23.3

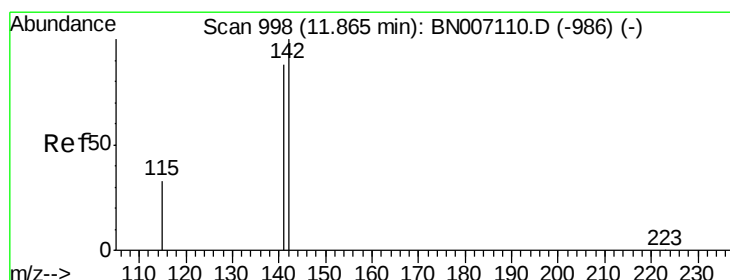
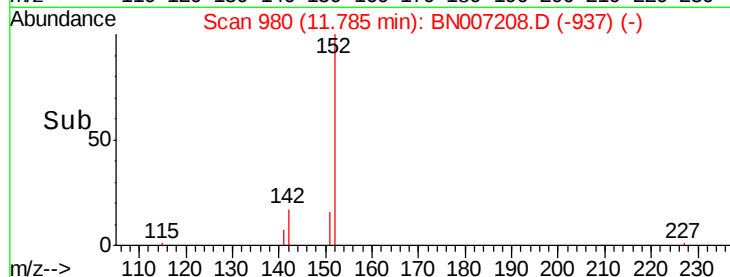


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



Time-->



#11

2-Methylnaphthalene

Concen: 0.123 ng

RT: 11.86 min Scan# 996

Delta R.T. -0.01 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

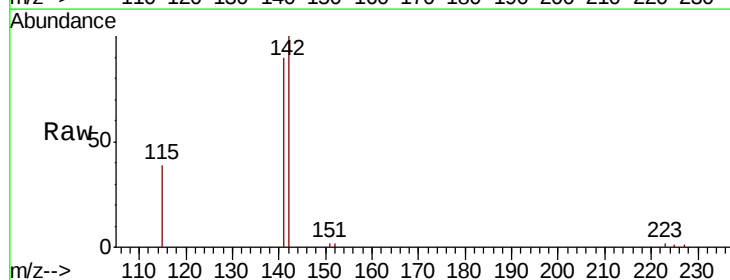
Tgt Ion:142 Resp: 6666

Ion Ratio Lower Upper

142 100

141 89.8 69.0 103.6

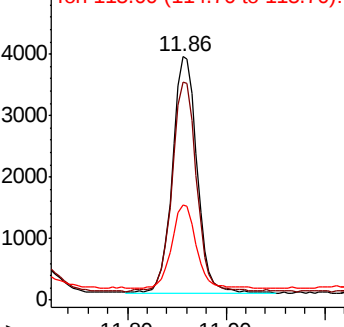
115 39.1 27.1 40.7



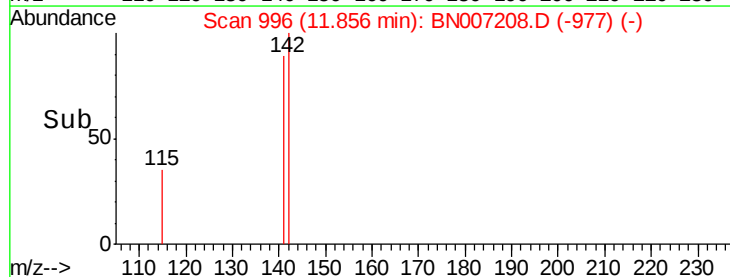
Abundance Ion 142.00 (141.70 to 142.70): E

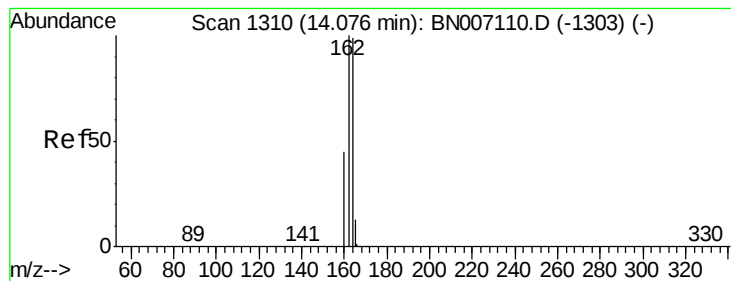
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

Instrument :

BNA_N

ClientSampleId :

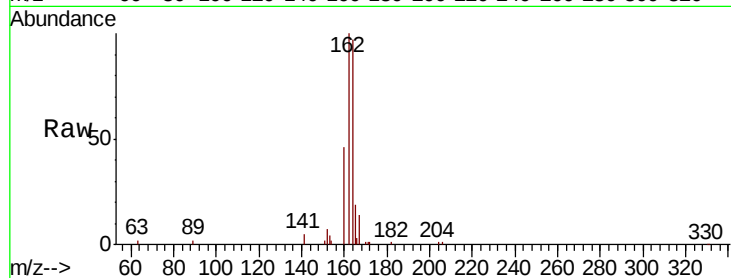
Tot Ion:164 Resp: 15606

Ion Ratio Lower Upper

164 100

162 103.2 82.2 123.4

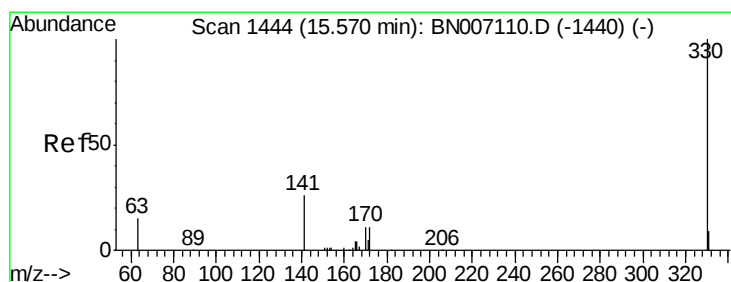
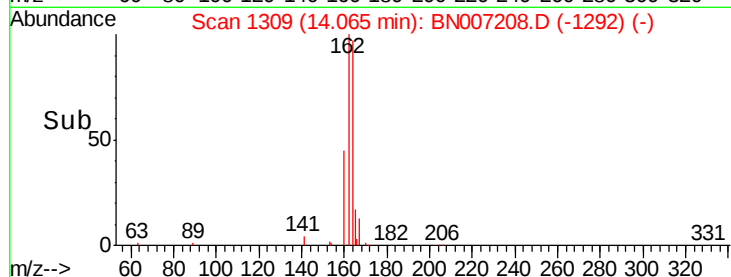
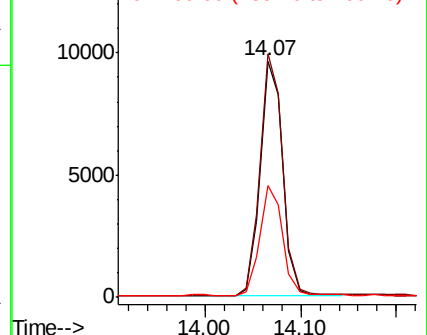
160 47.1 38.3 57.5



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: 0.004 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

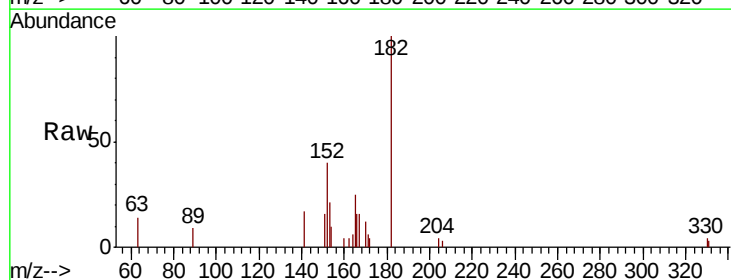
Tgt Ion:330 Resp: 36

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

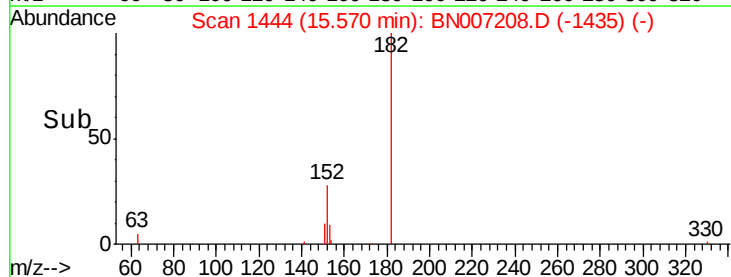
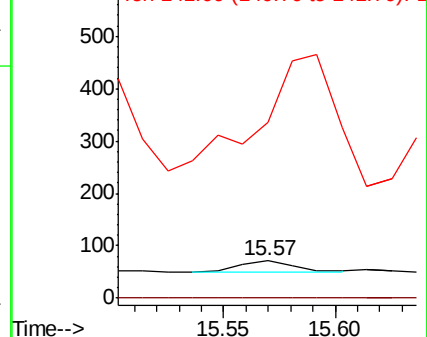
141 0.0 33.6 50.4#

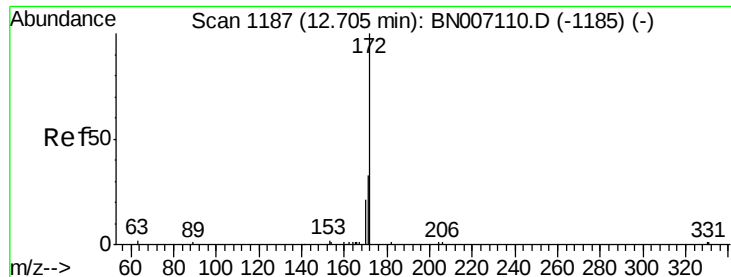


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

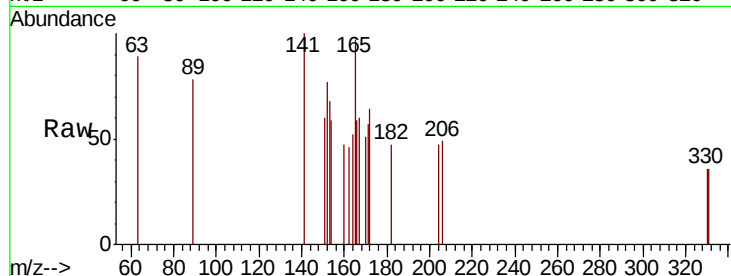




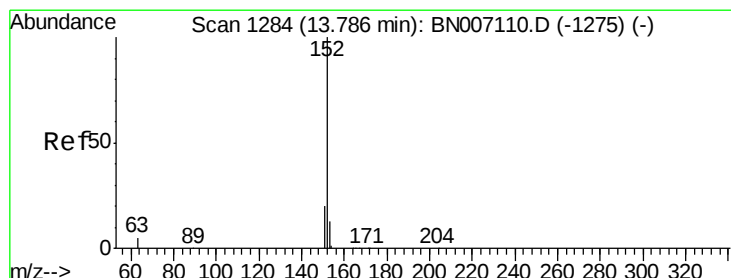
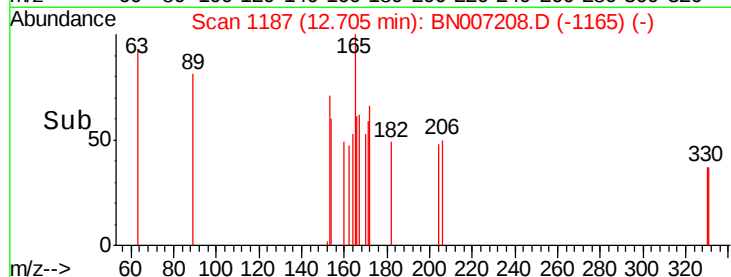
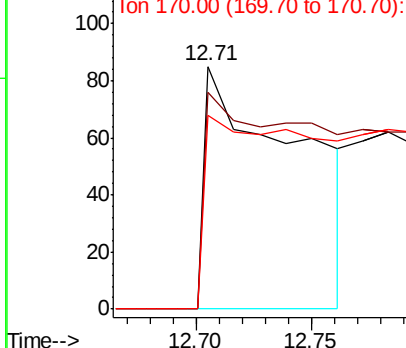
#14
2-Fluorobiphenyl
Concen: 0.009 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007208.D
Acq: 15 Aug 2019 22:10

Instrument :
BNA_N
ClientSampled :

Tot Ion:172 Resp: 212
Ion Ratio Lower Upper
172 100
171 89.4 26.3 39.5#
170 80.0 17.0 25.4#

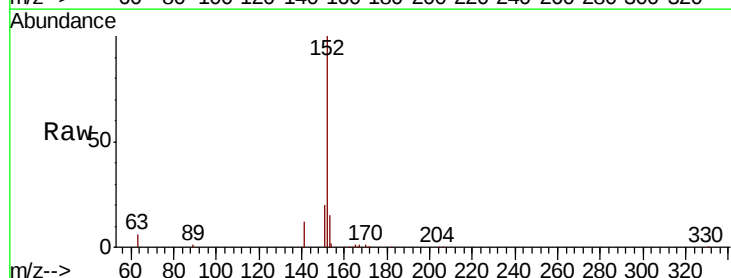


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

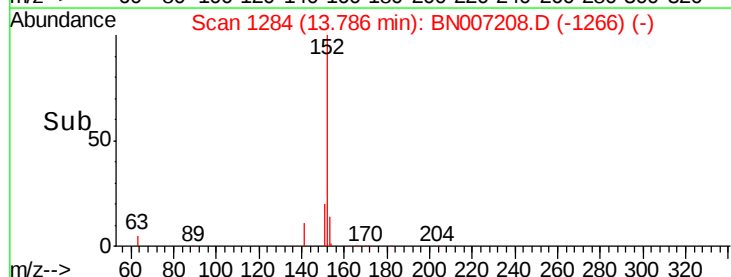
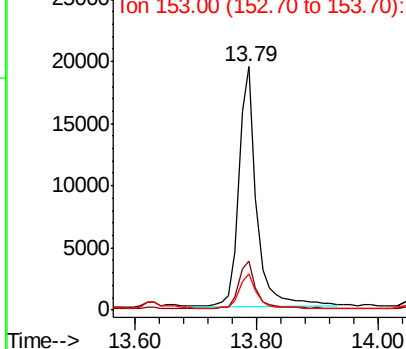


#15
Acenaphthylene
Concen: 0.479 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007208.D
Acq: 15 Aug 2019 22:10

Tgt Ion:152 Resp: 39076
Ion Ratio Lower Upper
152 100
151 19.6 15.8 23.6
153 14.0 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#16

Acenaphthene

Concen: 0.119 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

Instrument :

BNA_N

ClientSampleId :

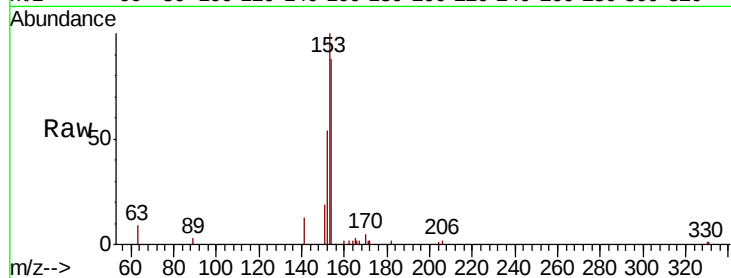
Tot Ion:154 Resp: 6234

Ion Ratio Lower Upper

154 100

153 124.0 89.5 134.3

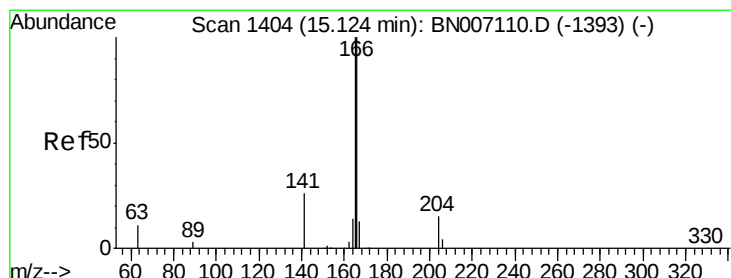
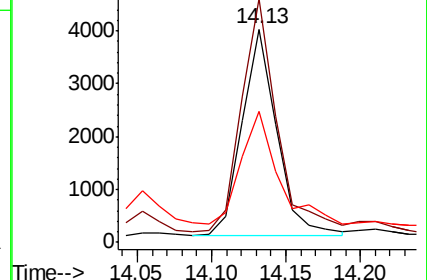
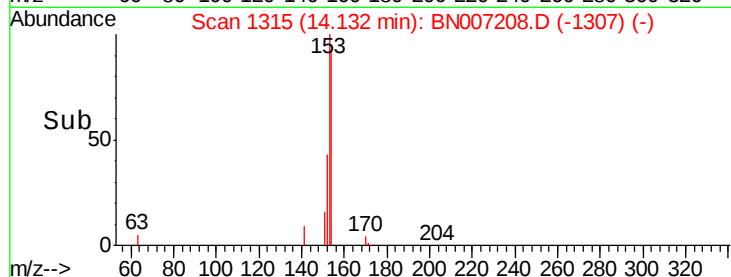
152 58.0 44.8 67.2



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: 0.162 ng

RT: 15.12 min Scan# 1404

Delta R.T. -0.01 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

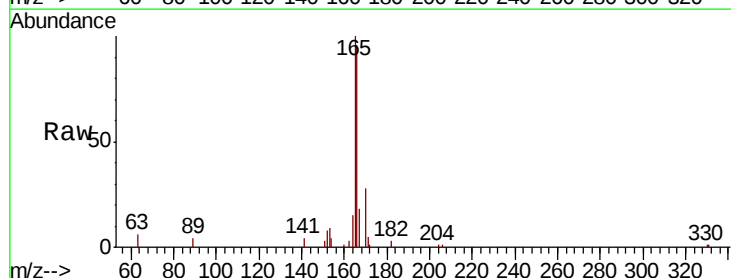
Tgt Ion:166 Resp: 12665

Ion Ratio Lower Upper

166 100

165 114.4 77.9 116.9

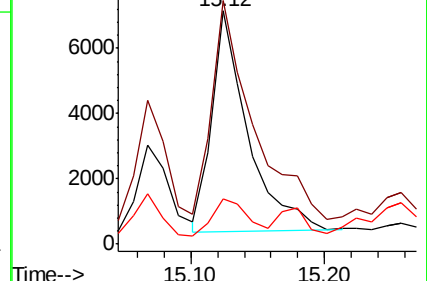
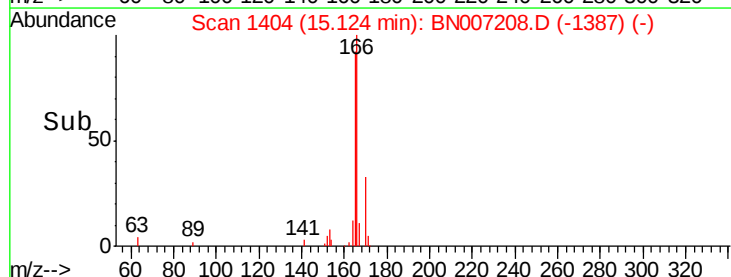
167 16.8 10.9 16.3#



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

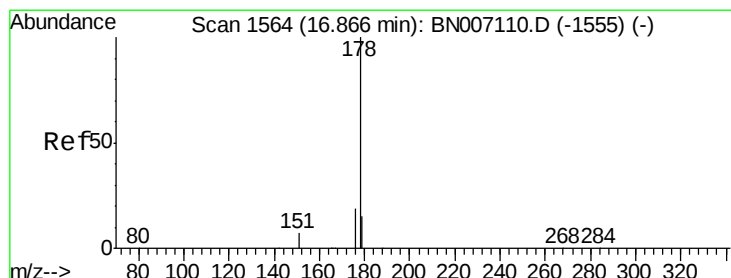
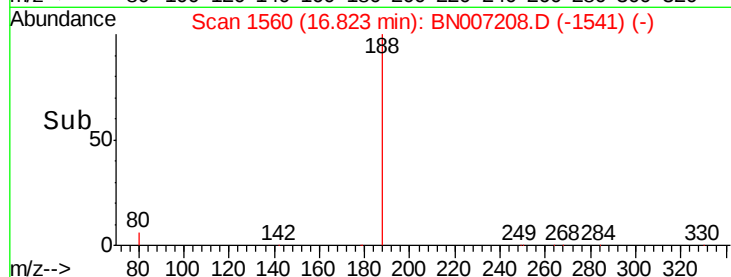
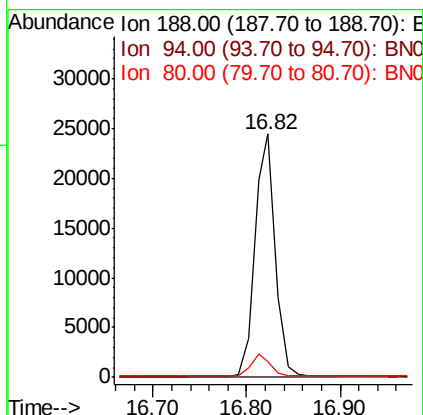
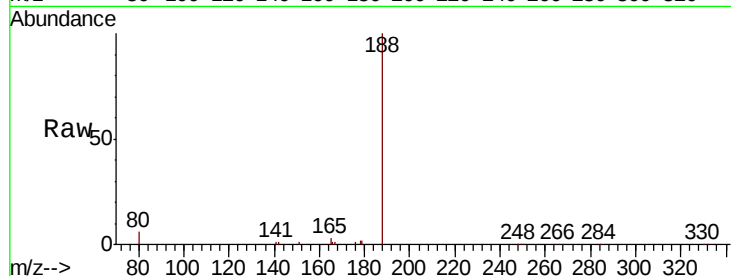




#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007208.D
Acq: 15 Aug 2019 22:10

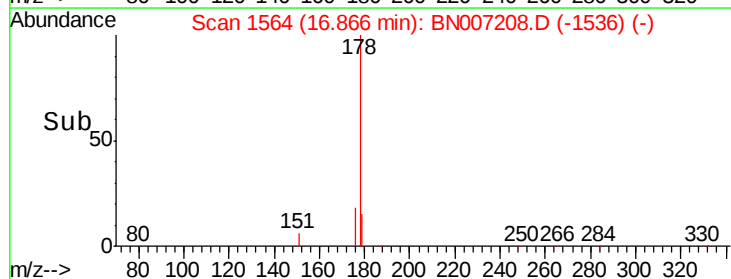
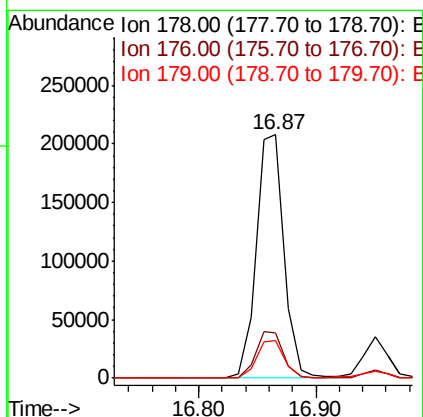
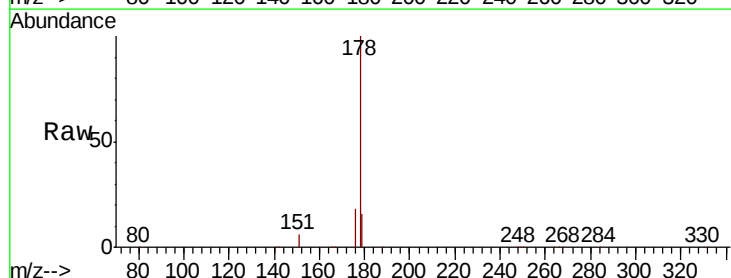
Instrument :
BNA_N
ClientSampleId :

Tot Ion:188 Resp: 36797
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.5 7.8 11.6#



#22
Phenanthrene
Concen: 3.104 ng
RT: 16.87 min Scan# 1564
Delta R.T. -0.00 min
Lab File: BN007208.D
Acq: 15 Aug 2019 22:10

Tgt Ion:178 Resp: 342320
Ion Ratio Lower Upper
178 100
176 19.0 15.2 22.8
179 15.4 12.3 18.5





#23

Anthracene

Concen: 0.470 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

Instrument :

BNA_N

ClientSampleId :

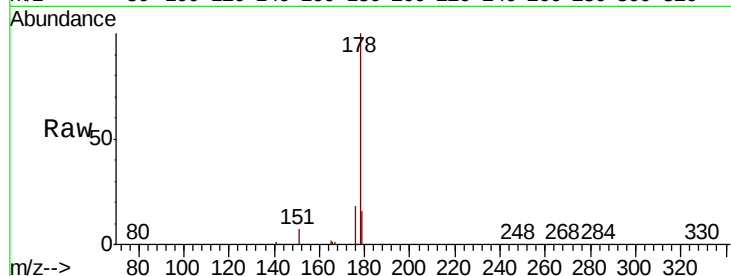
Tot Ion:178 Resp: 47378

Ion Ratio Lower Upper

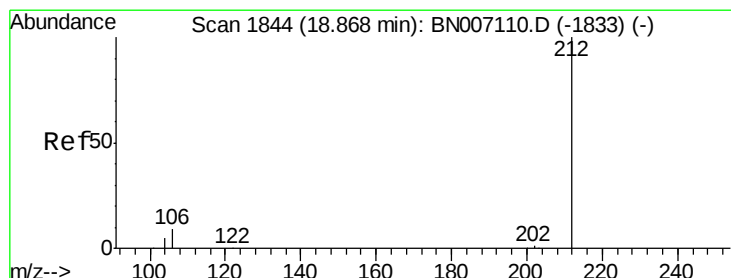
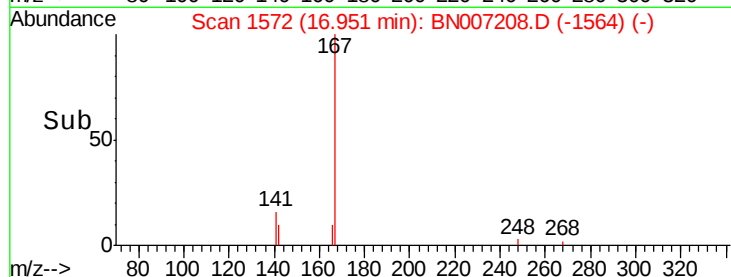
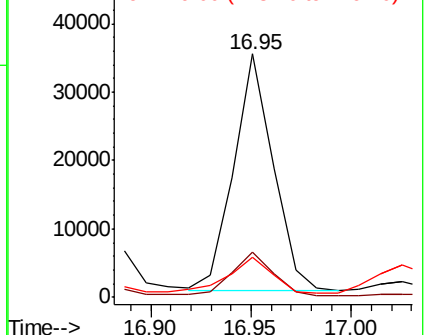
178 100

176 18.5 14.6 21.8

179 17.1 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: 0.009 ng

RT: 18.78 min Scan# 1827

Delta R.T. -0.09 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

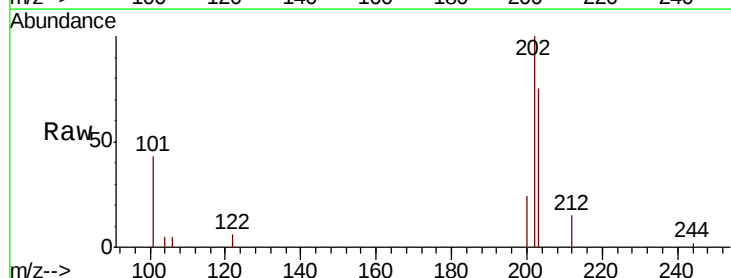
Tgt Ion:212 Resp: 1136

Ion Ratio Lower Upper

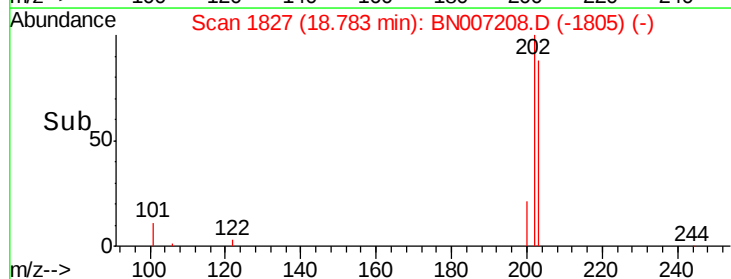
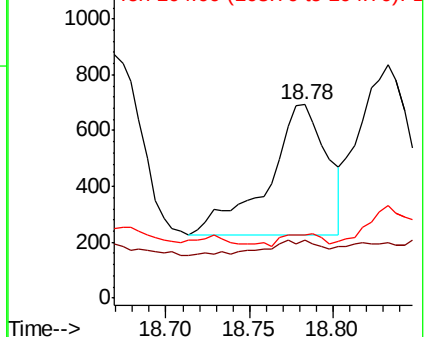
212 100

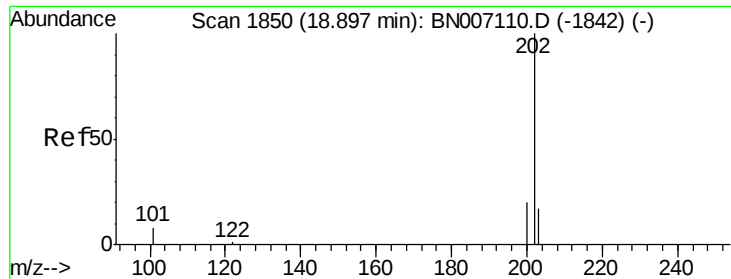
106 10.9 8.2 12.2

104 4.9 4.5 6.7



Abundance Ion 212.00 (211.70 to 212.70): E
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 2.879 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007208.D

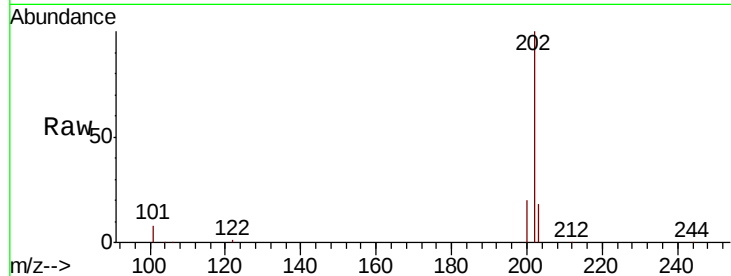
Acq: 15 Aug 2019 22:10

Instrument :

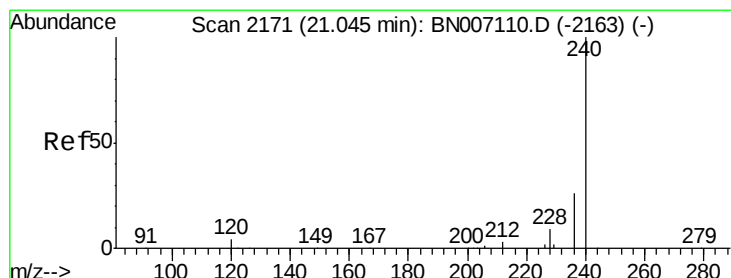
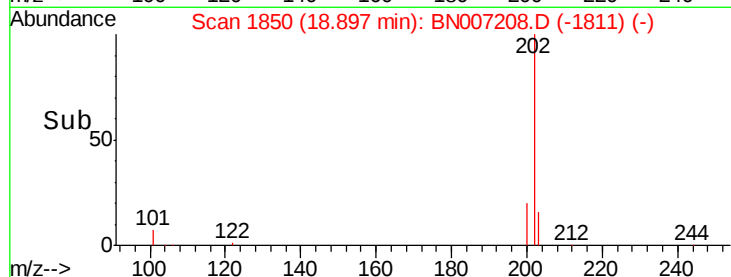
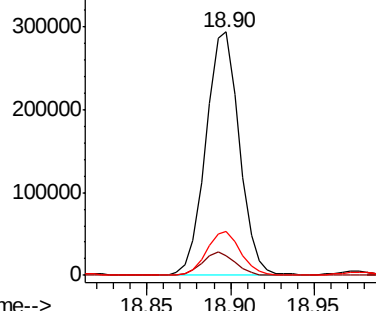
BNA_N

ClientSampleId :

Tot Ion:	202	Resp:	406110
Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.0	10.4
203	18.0	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

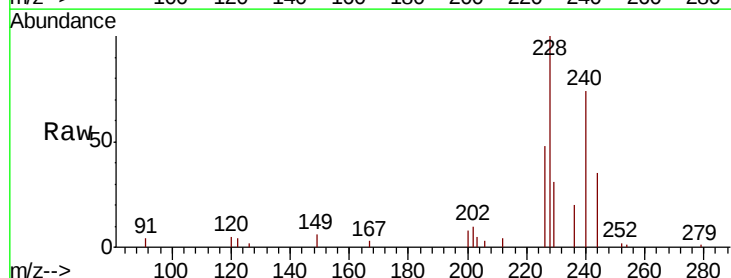
RT: 21.05 min Scan# 2171

Delta R.T. -0.01 min

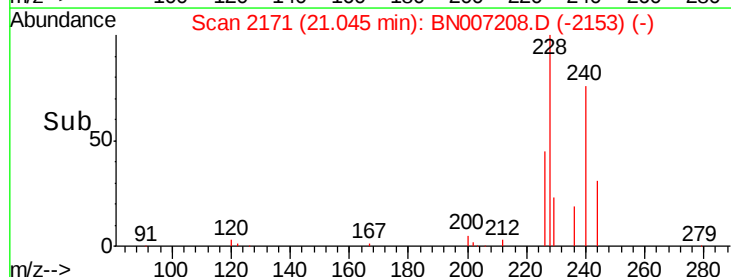
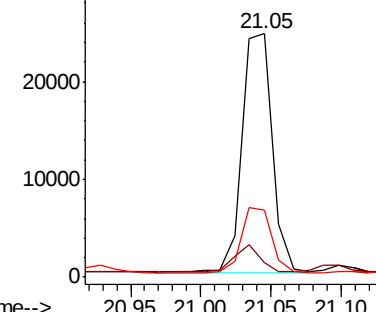
Lab File: BN007208.D

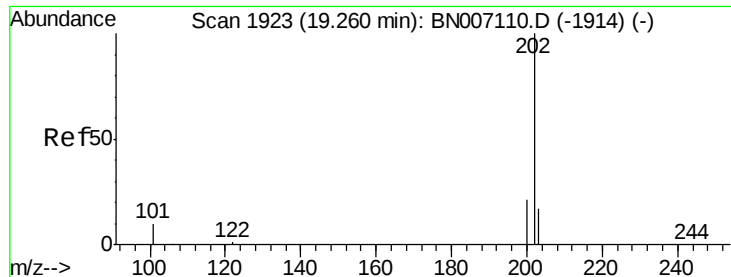
Acq: 15 Aug 2019 22:10

Tgt Ion:	240	Resp:	37272
Ion	Ratio	Lower	Upper
240	100		
120	6.1	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

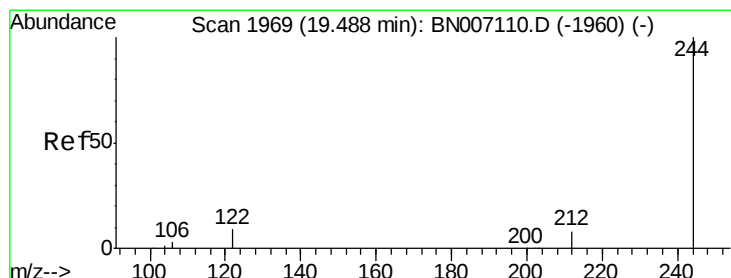
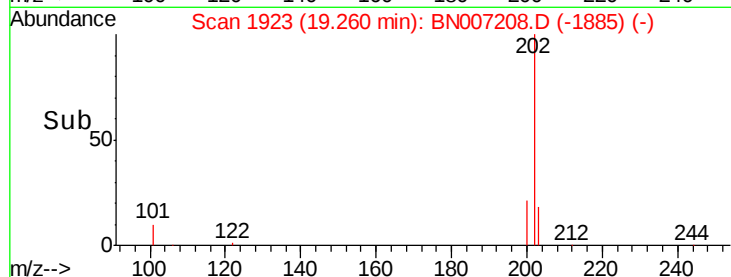
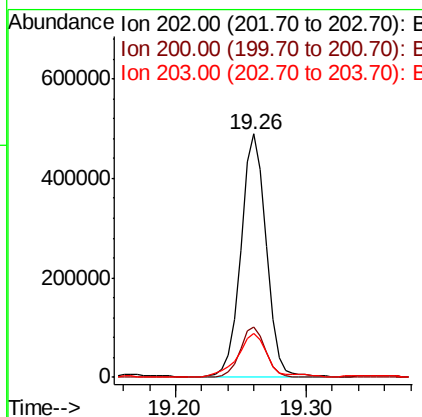
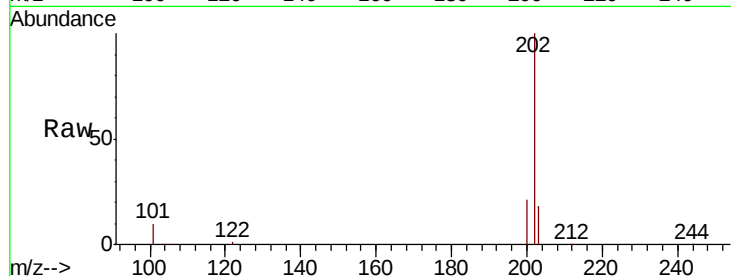




#27
Pvrene
Concen: 5.087 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007208.D
Acq: 15 Aug 2019 22:10

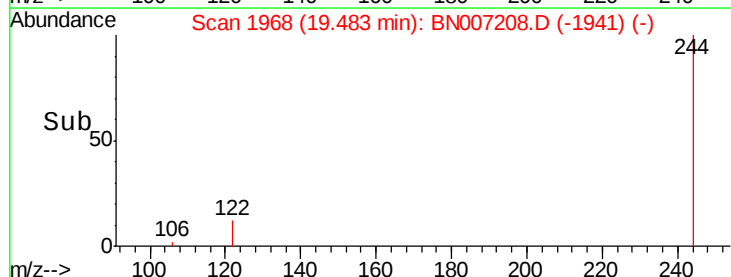
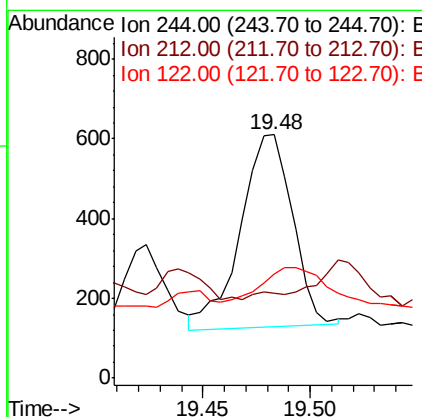
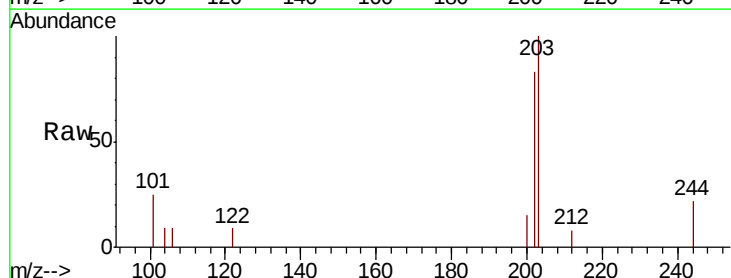
Instrument :
BNA_N
ClientSampleId :

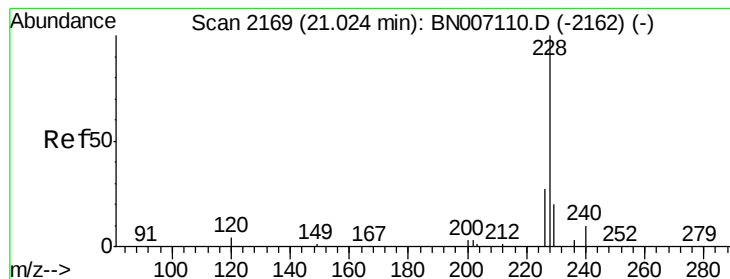
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.6	24.8
203	20.4	14.0	21.0



#28
Terphenyl-d14
Concen: 0.008 ng
RT: 19.48 min Scan# 1968
Delta R.T. -0.02 min
Lab File: BN007208.D
Acq: 15 Aug 2019 22:10

Tgt Ion	Ratio	Lower	Upper
244	100		
212	34.9	6.2	9.2#
122	42.6	7.4	11.2#





#29

Benzo(a)anthracene

Concen: 2.007 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

Instrument :

BNA_N

ClientSampleId :

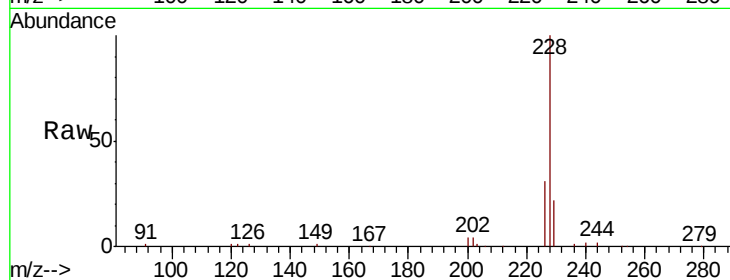
Tot Ion:228 Resp: 273591

Ion	Ratio	Lower	Upper
228	100		
226	30.8	21.8	32.6
229	21.5	15.6	23.4

228 100

226 30.8 21.8 32.6

229 21.5 15.6 23.4

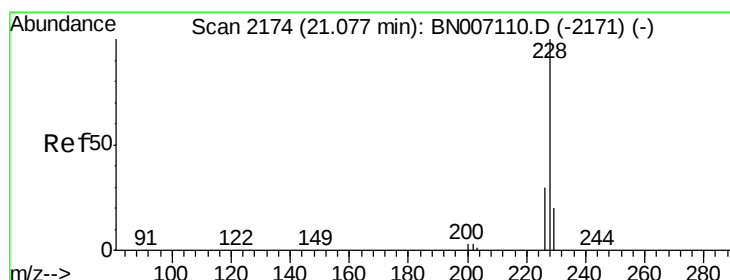
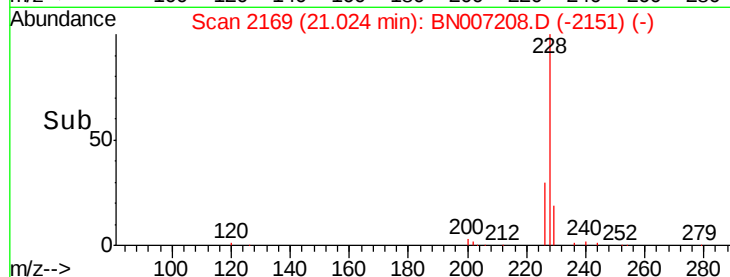
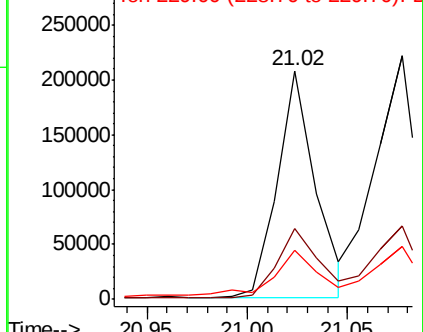


Abundance

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: 2.426 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

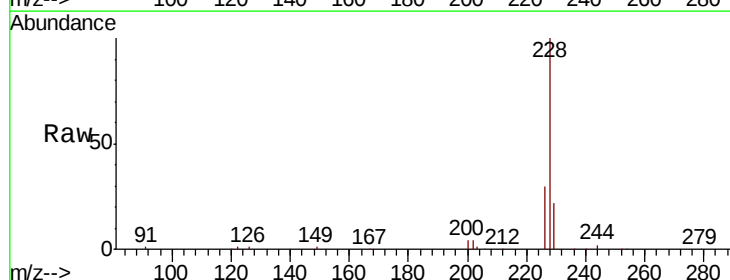
Tgt Ion:228 Resp: 321245

Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.8	35.6
229	21.6	15.7	23.5

228 100

226 30.0 23.8 35.6

229 21.6 15.7 23.5

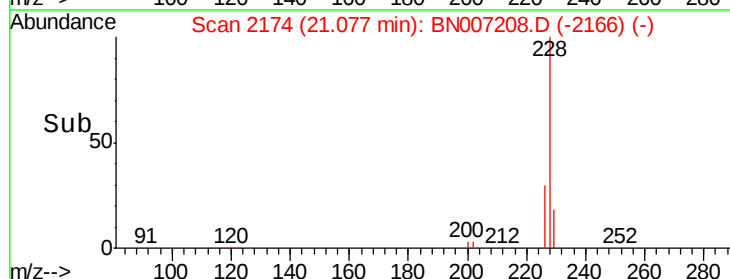
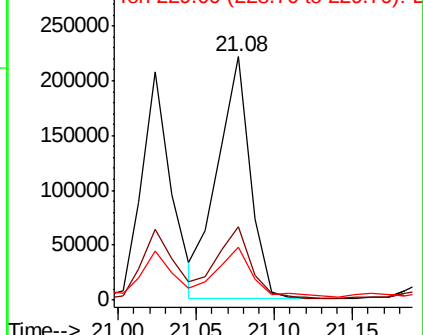


Abundance

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

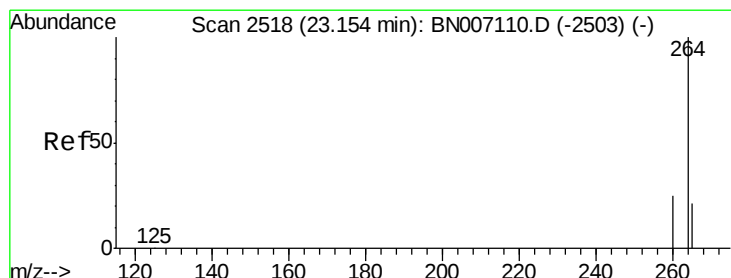
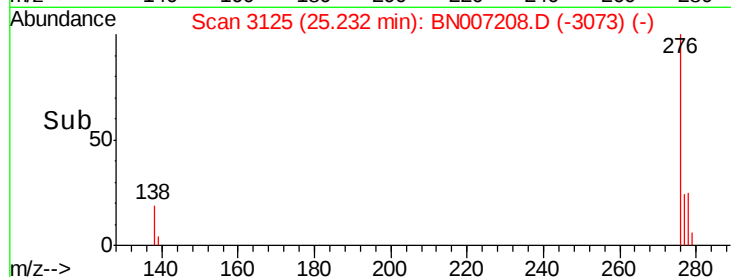
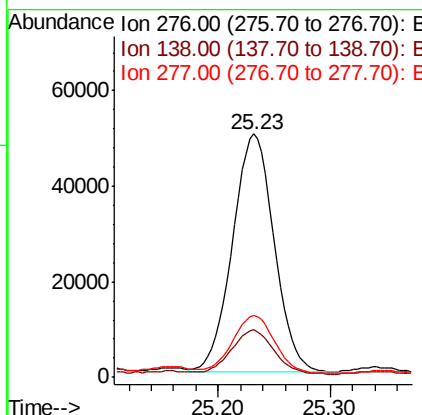
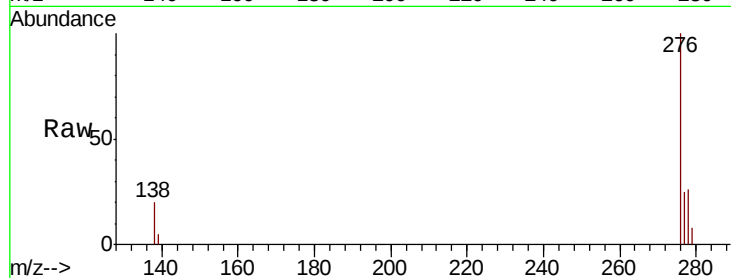




#31
 Indeno(1,2,3-cd)pyrene
 Concen: 0.876 ng
 RT: 25.23 min Scan# 3125
 Delta R.T. -0.02 min
 Lab File: BN007208.D
 Acq: 15 Aug 2019 22:10

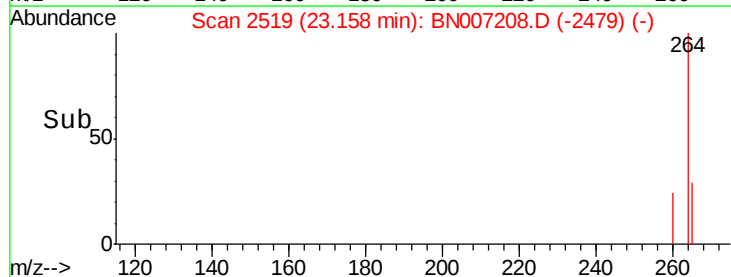
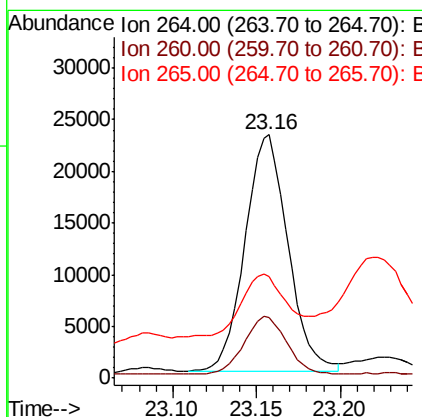
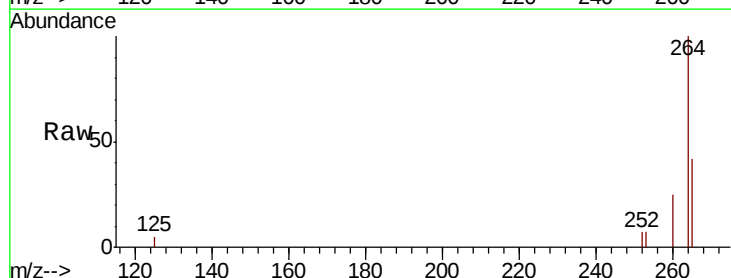
Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:276 Resp: 127910
 Ion Ratio Lower Upper
 276 100
 138 18.9 16.0 24.0
 277 25.0 19.9 29.9



#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.16 min Scan# 2519
 Delta R.T. -0.01 min
 Lab File: BN007208.D
 Acq: 15 Aug 2019 22:10

Tgt Ion:264 Resp: 41117
 Ion Ratio Lower Upper
 264 100
 260 24.9 19.8 29.8
 265 41.8 26.2 39.4#





#33

Benzo(b)fluoranthene

Concen: 2.440 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.01 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

Instrument :

BNA_N

ClientSampleId :

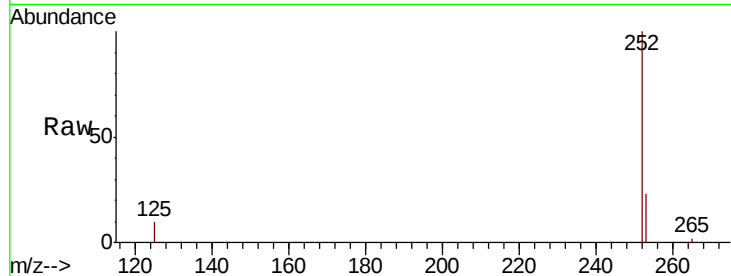
Tot Ion:252 Resp: 343966

Ion Ratio Lower Upper

252 100

253 23.1 18.2 27.2

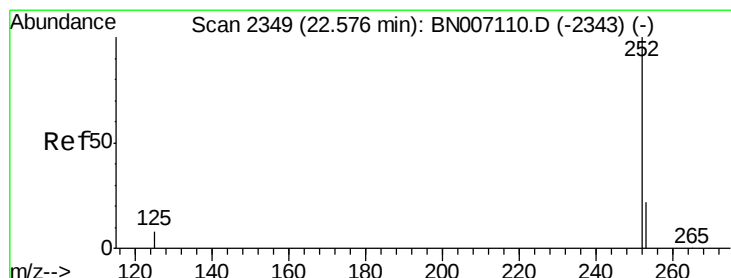
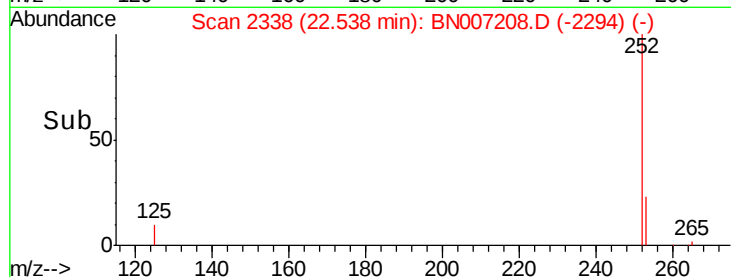
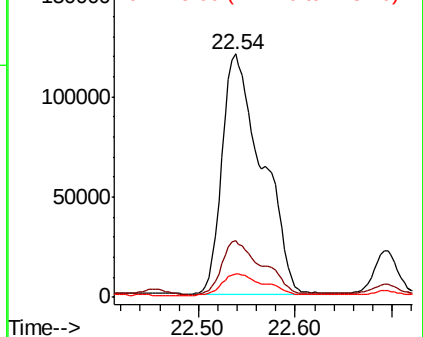
125 9.5 7.4 11.0



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: 2.472 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.05 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

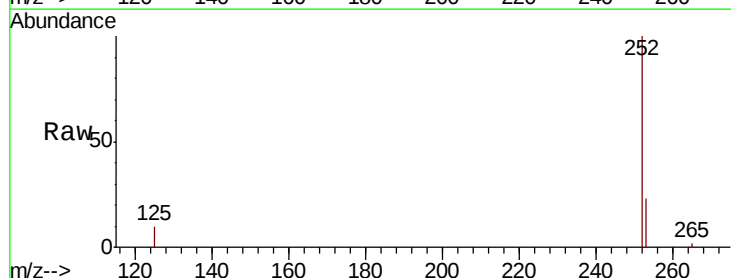
Tgt Ion:252 Resp: 344211

Ion Ratio Lower Upper

252 100

253 23.1 18.1 27.1

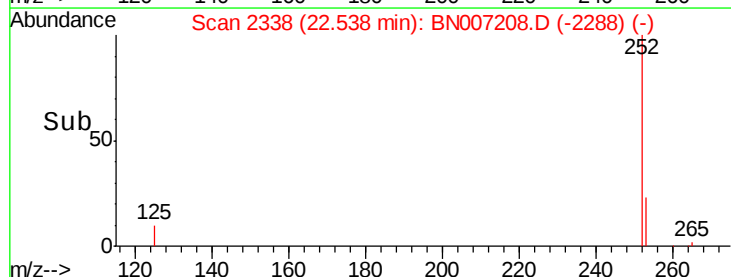
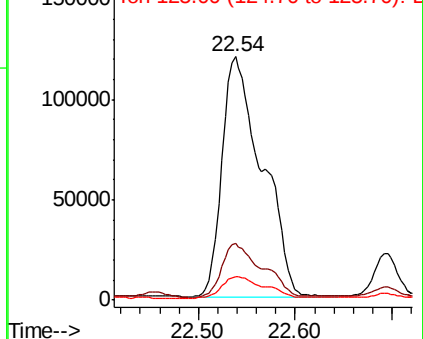
125 9.5 7.4 11.0



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: 1.735 ng

RT: 23.07 min Scan# 2492

Delta R.T. -0.02 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

Instrument :

BNA_N

ClientSampleId :

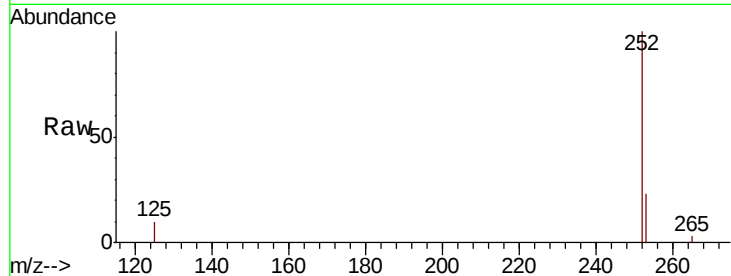
Tot Ion:252 Resp: 221796

Ion Ratio Lower Upper

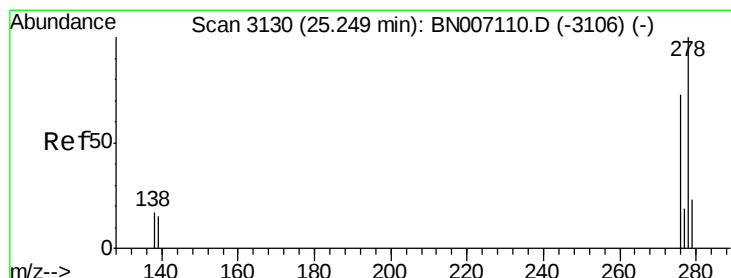
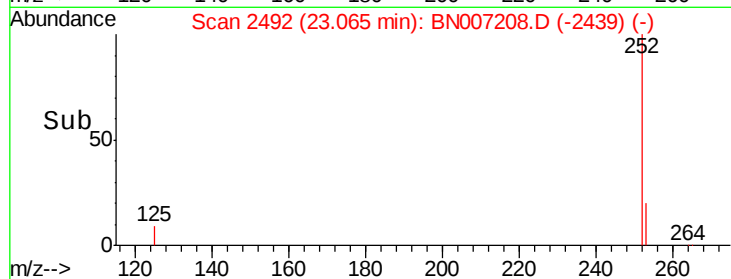
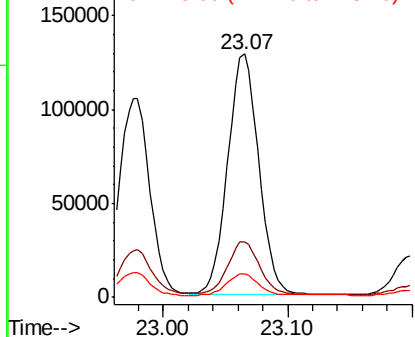
252 100

253 22.7 18.5 27.7

125 9.7 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: 0.319 ng

RT: 25.24 min Scan# 3128

Delta R.T. -0.03 min

Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

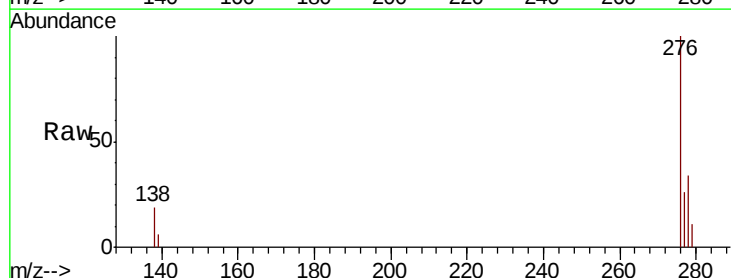
Tgt Ion:278 Resp: 40626

Ion Ratio Lower Upper

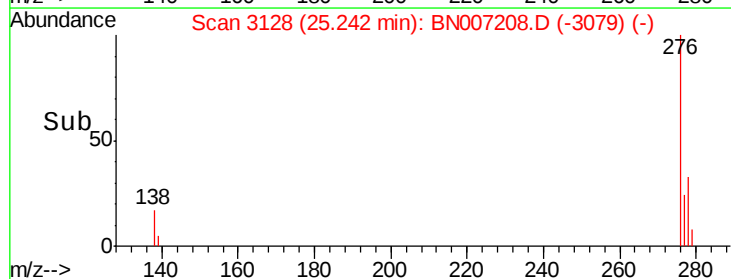
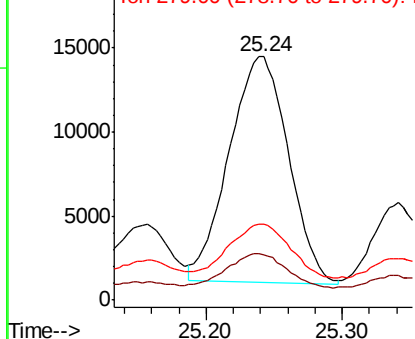
278 100

139 18.6 11.3 16.9#

279 31.3 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: 1.192 ng

RT: 25.86 min Scan# 3308

Delta R.T. -0.02 min

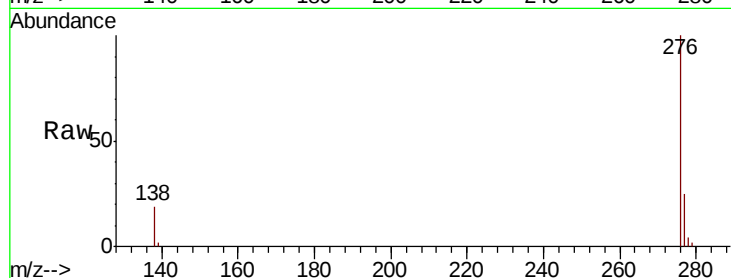
Lab File: BN007208.D

Acq: 15 Aug 2019 22:10

Instrument :

BNA_N

ClientSampleId :



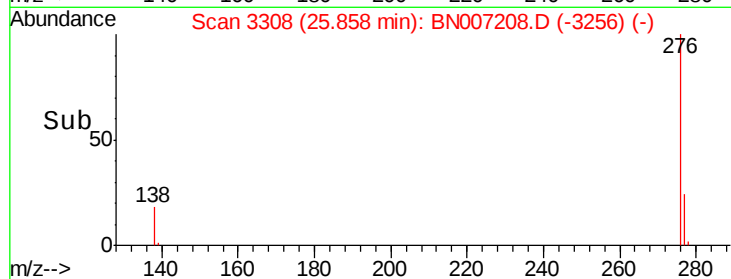
Tot Ion: 276 Resp: 156410

Ion Ratio Lower Upper

276 100

277 24.9 19.8 29.8

138 19.4 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

