

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081519\
 Data File : BN007204.D
 Acq On : 15 Aug 2019 19:45
 Operator : HP/JU
 Sample : K4173-07 5X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 16 07:06:01 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	7233	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	28180	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	15996	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	38003	0.40	ng	0.00
26) Chrysene-d12	21.05	240	38612	0.40	ng	-0.01
32) Perylene-d12	23.16	264	42831	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.05	112	550	0.03	ng	0.00
4) Phenol-d6	6.61	99	821	0.04	ng	0.00
7) Nitrobenzene-d5	8.55	82	595	0.03	ng	-0.01
10) 2-Methylnaphthalene-d10	11.79	152	1610	0.03	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	436	0.05	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	319	0.01	ng	0.00
24) Fluoranthene-d10	18.86	212	8223	0.06	ng	-0.01
28) Terphenyl-d14	19.48	244	5385	0.05	ng	-0.02

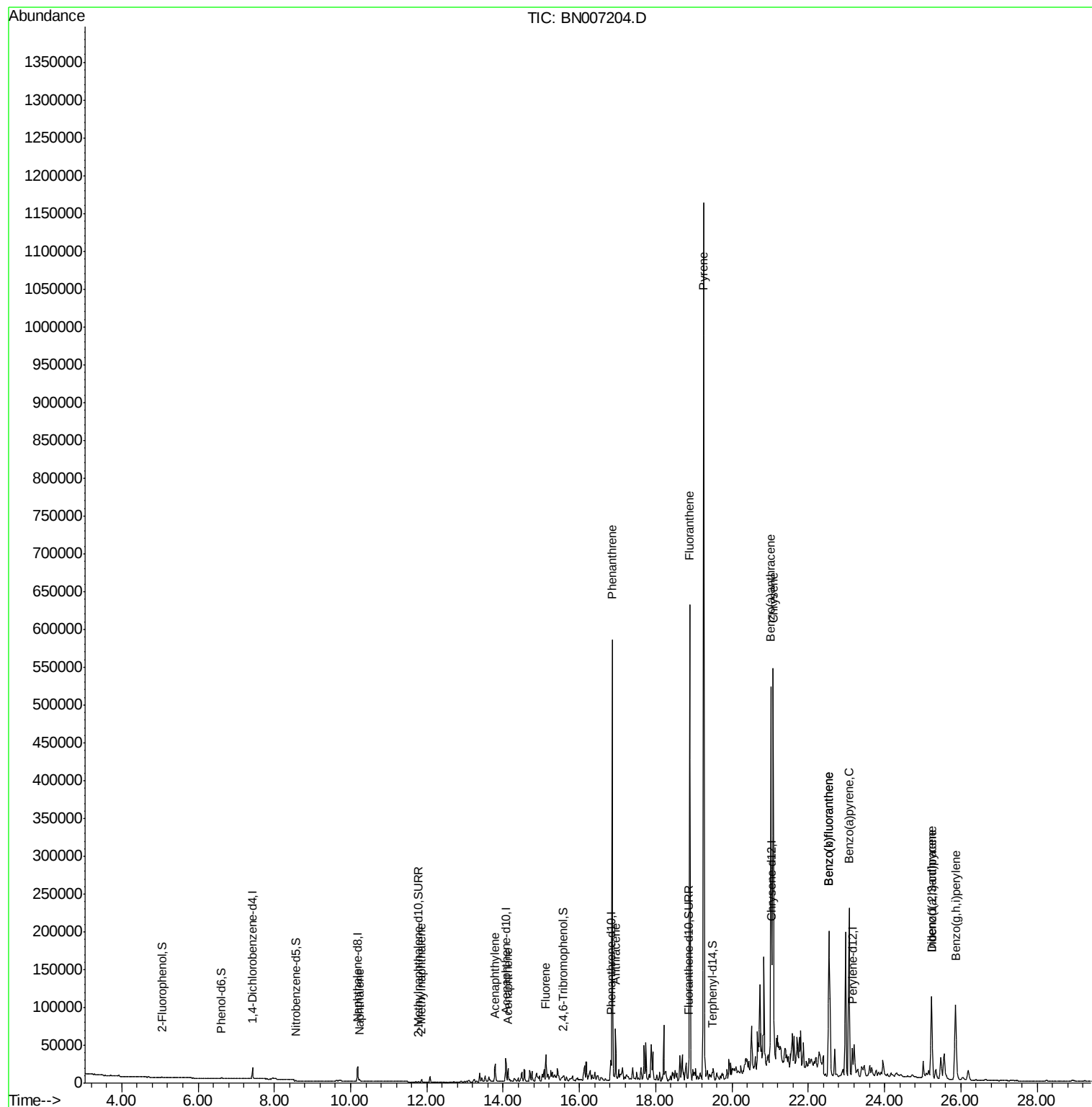
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.22	128	2784	0.035	ng	# 86
11) 2-Methylnaphthalene	11.86	142	3549	0.063	ng	95
15) Acenaphthylene	13.79	152	30401	0.364	ng	98
16) Acenaphthene	14.13	154	8507	0.159	ng	88
17) Fluorene	15.12	166	20631	0.257	ng	# 90
22) Phenanthrene	16.87	178	673400	5.913	ng	100
23) Anthracene	16.95	178	65041	0.625	ng	97
25) Fluoranthene	18.89	202	580805	3.987	ng	98
27) Pyrene	19.26	202	1046000	7.725	ng	96
29) Benzo(a)anthracene	21.02	228	398420	2.822	ng	96
30) Chrysene	21.08	228	468277	3.413	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	157412	1.041	ng	99
33) Benzo(b)fluoranthene	22.54	252	432313	2.943	ng	100
34) Benzo(k)fluoranthene	22.54	252	432650	2.983	ng	99
35) Benzo(a)pyrene	23.07	252	299611	2.250	ng	99
36) Dibenzo(a,h)anthracene	25.24	278	52197	0.393	ng	# 88
37) Benzo(a,h,i)perylene	25.86	276	201154	1.472	ng	99

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

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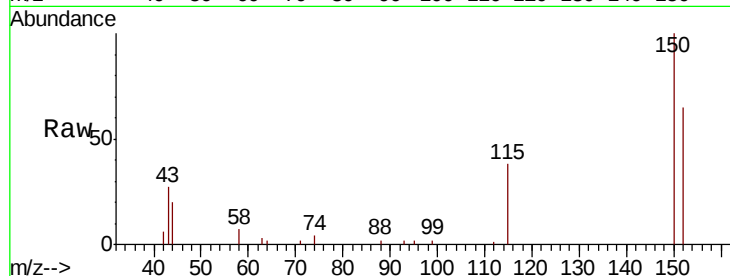


#1

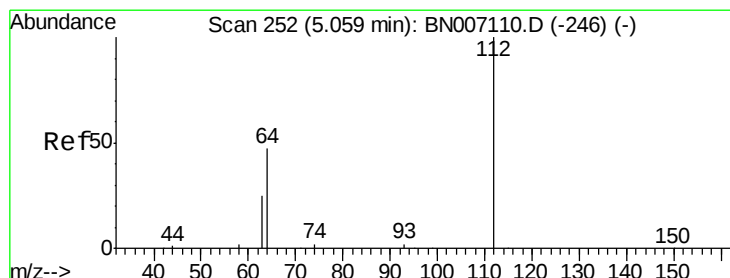
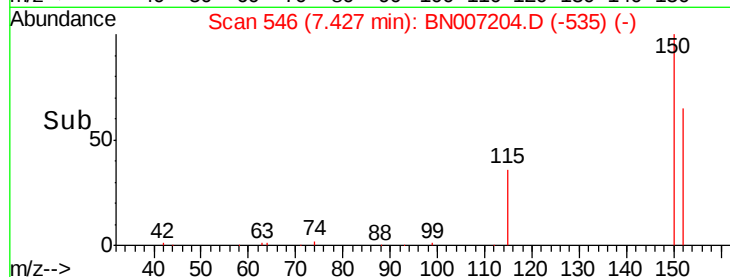
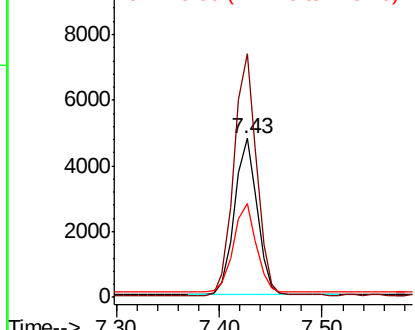
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007204.D
Acq: 15 Aug 2019 19:45

Instrument :
BNA_N
ClientSampled :

Tot Ion:152 Resp: 7233
Ion Ratio Lower Upper
152 100
150 153.5 121.7 182.5
115 58.9 46.2 69.4



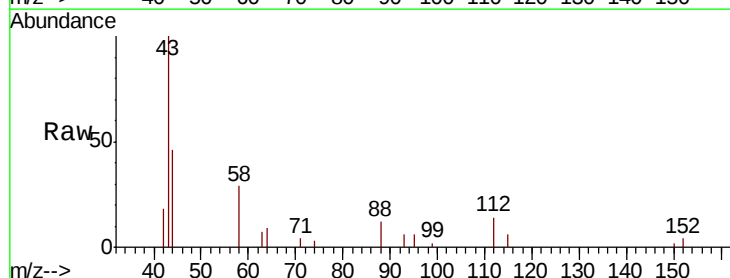
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



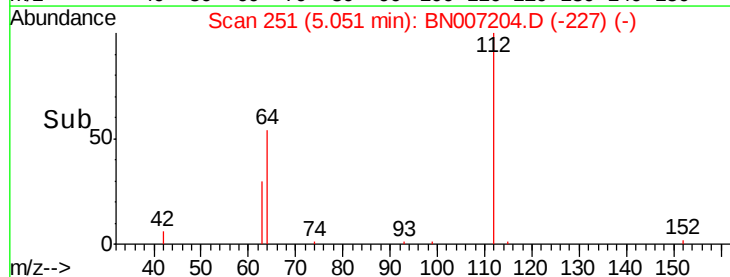
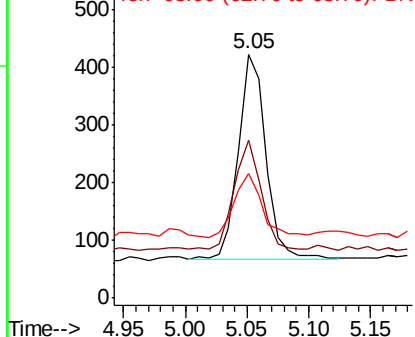
#3

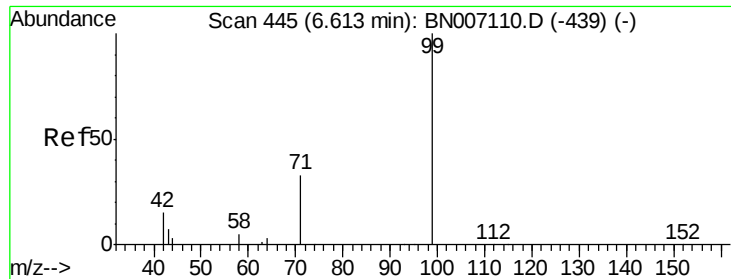
2-Fluorophenol
Concen: 0.032 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007204.D
Acq: 15 Aug 2019 19:45

Tgt Ion:112 Resp: 550
Ion Ratio Lower Upper
112 100
64 52.9 42.6 63.8
63 32.7 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: 0.038 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

Instrument :

BNA_N

ClientSampleId :

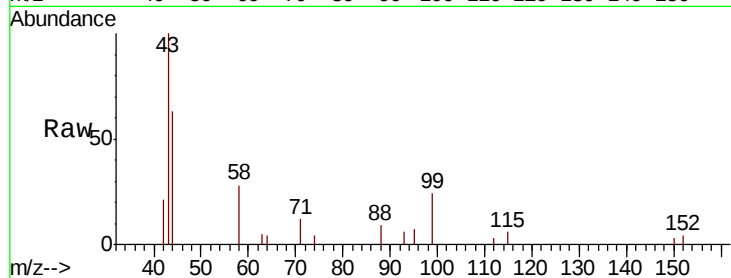
Tot Ion: 99 Resp: 821

Ion Ratio Lower Upper

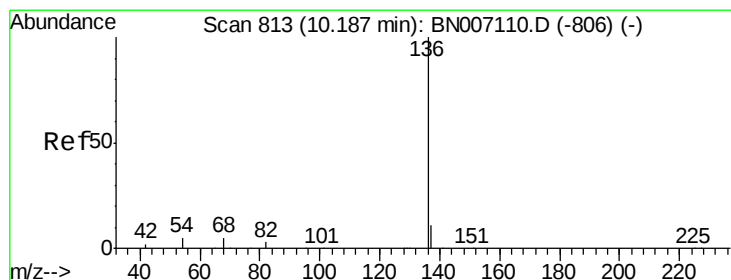
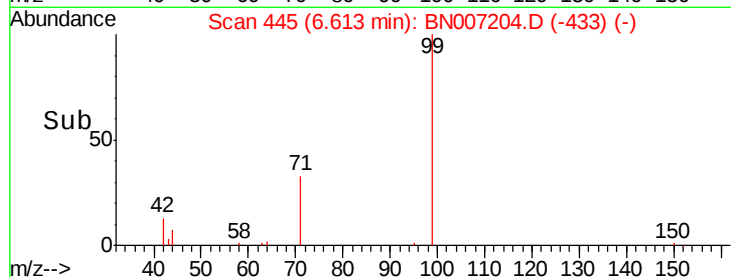
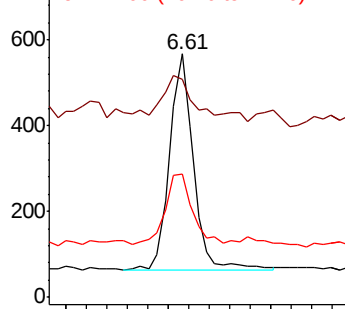
99 100

42 29.1 15.8 23.6#

71 38.6 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007204.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

Tgt Ion: 136 Resp: 28180

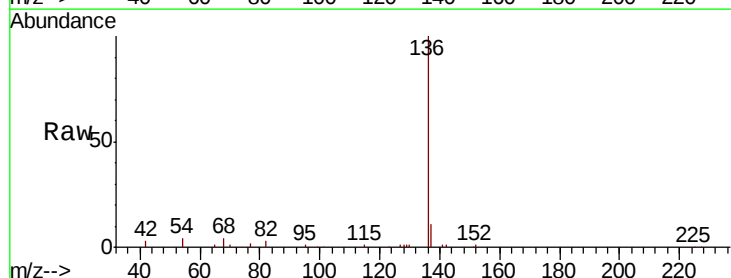
Ion Ratio Lower Upper

136 100

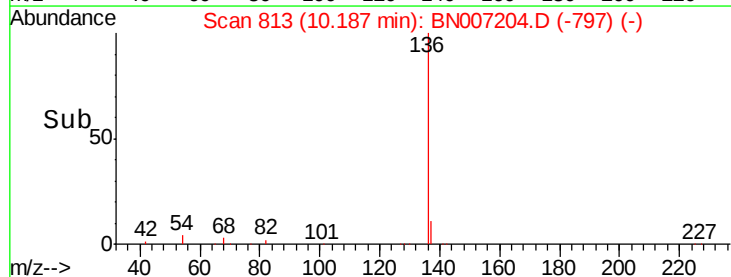
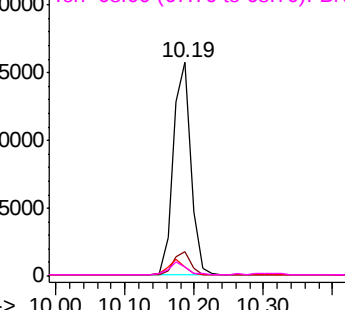
137 11.3 9.4 14.0

54 4.4 6.6 9.8#

68 4.0 6.0 9.0#



Abundance Ion 136.00 (135.70 to 136.70): BN007204.D (-797) (-)





#7

Nitrobenzene-d5

Concen: 0.026 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

Instrument :

BNA_N

ClientSampled :

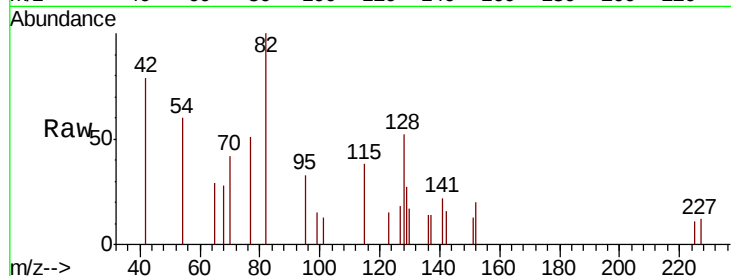
Tot Ion: 82 Resp: 595

Ion Ratio Lower Upper

82 100

128 52.3 34.6 51.8#

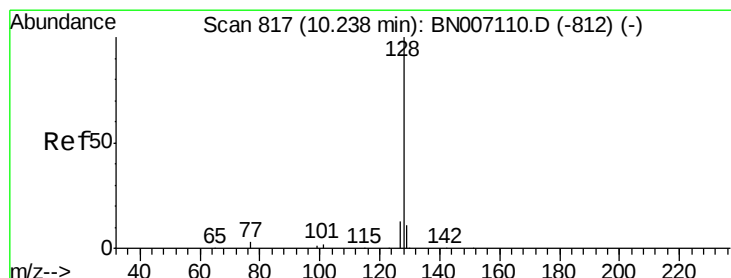
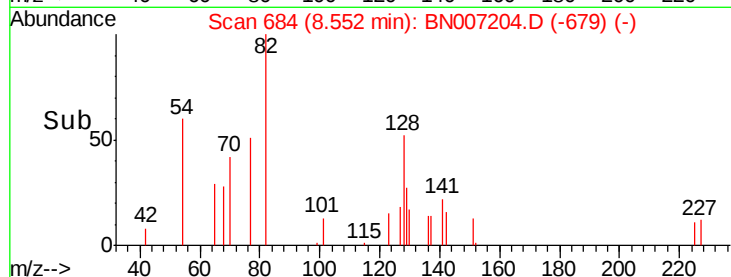
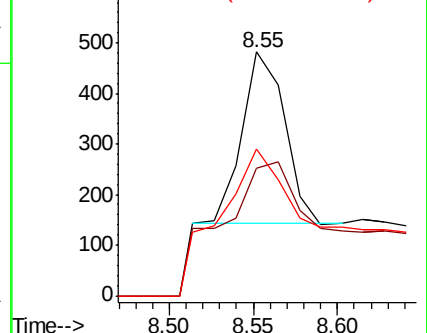
54 60.2 36.2 54.4#



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) (-)



#8

Naphthalene

Concen: 0.035 ng

RT: 10.22 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

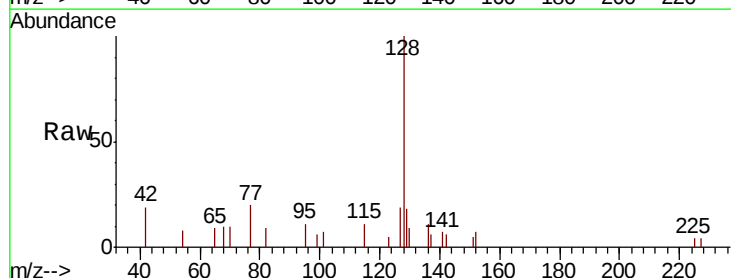
Tgt Ion: 128 Resp: 2784

Ion Ratio Lower Upper

128 100

129 18.4 9.4 14.2#

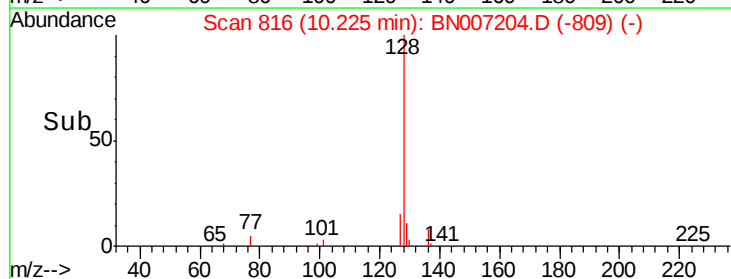
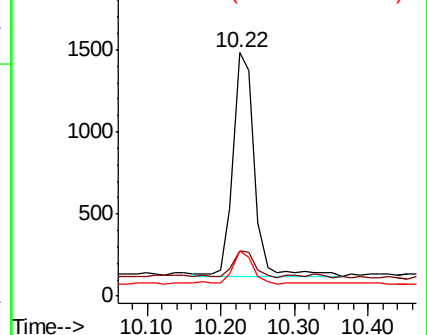
127 18.6 11.0 16.6#



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) (-)





#10

2-Methylnaphthalene-d10

Concen: 0.031 ng

RT: 11.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

Instrument :

BNA_N

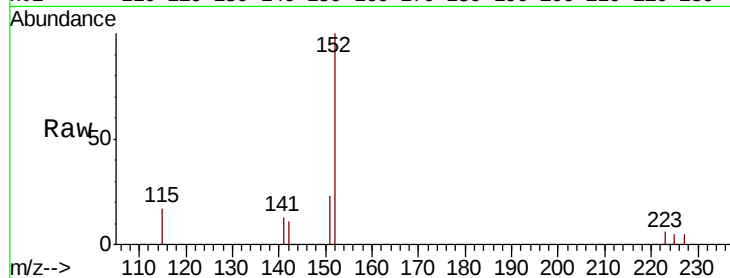
ClientSampleId :

Tot Ion:152 Resp: 1610

Ion Ratio Lower Upper

152 100

151 19.3 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

1200

1000

800

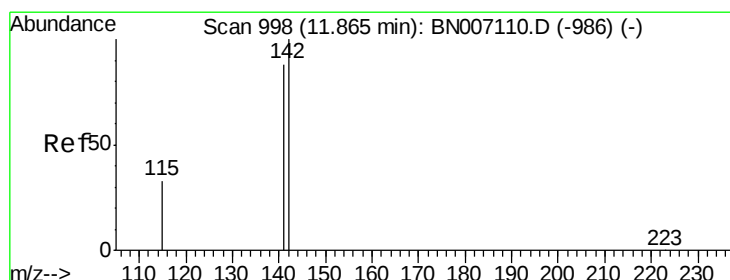
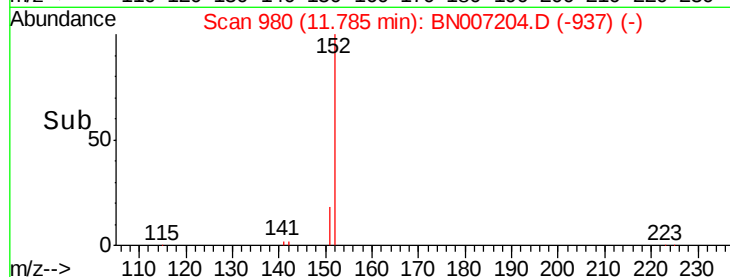
600

400

200

0

Time--> 11.70 11.75 11.80 11.85



#11

2-Methylnaphthalene

Concen: 0.063 ng

RT: 11.86 min Scan# 996

Delta R.T. -0.01 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

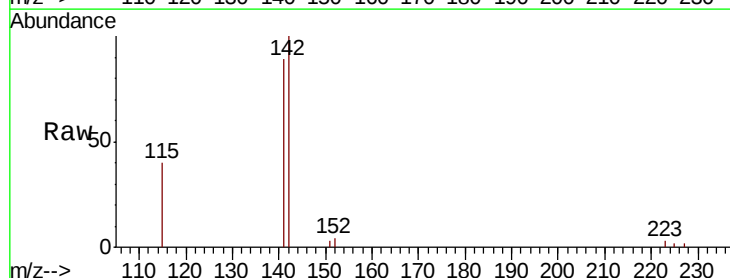
Tgt Ion:142 Resp: 3549

Ion Ratio Lower Upper

142 100

141 89.3 69.0 103.6

115 39.9 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

3000

2500

2000

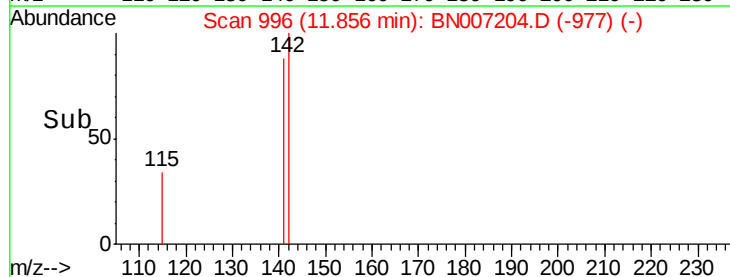
1500

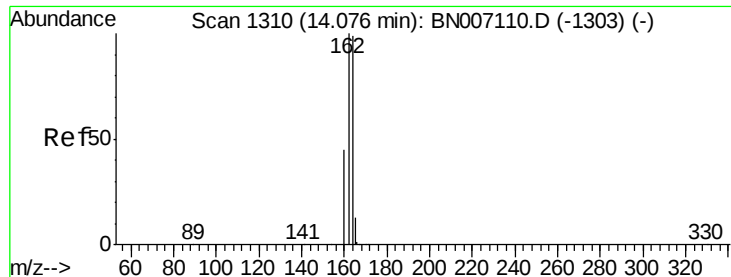
1000

500

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: BN007204.D

Acq: 15 Aug 2019 19:45

Instrument :

BNA_N

ClientSampleId :

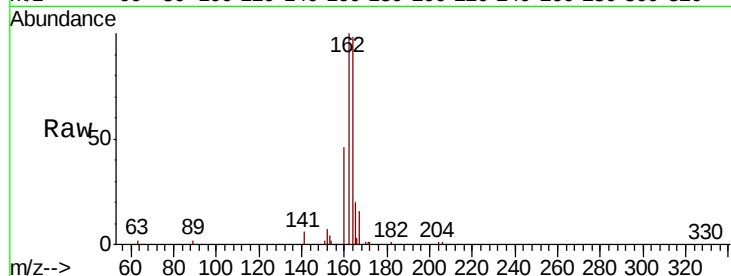
Tot Ion:164 Resp: 15996

Ion Ratio Lower Upper

164 100

162 102.2 82.2 123.4

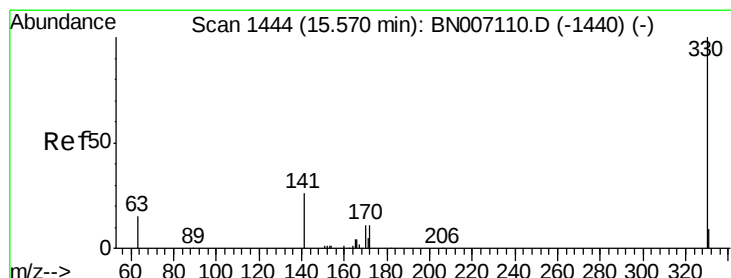
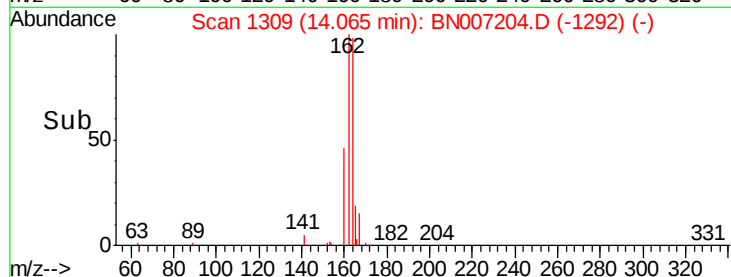
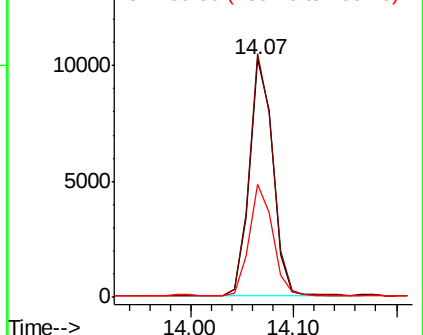
160 47.4 38.3 57.5



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: 0.051 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

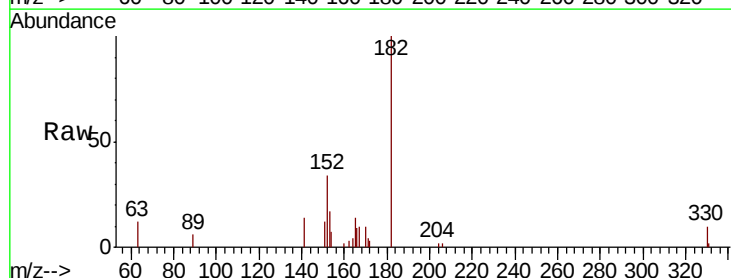
Tgt Ion:330 Resp: 436

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

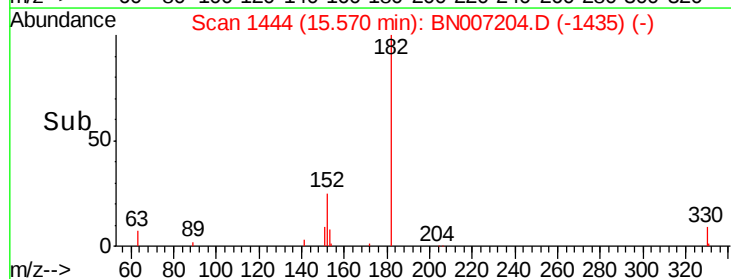
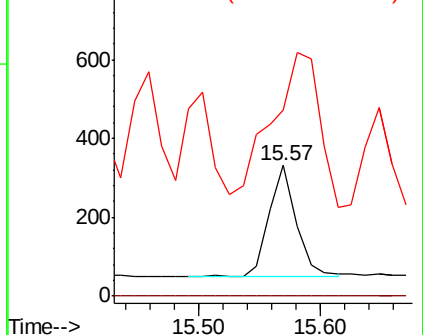
141 250.2 33.6 50.4#

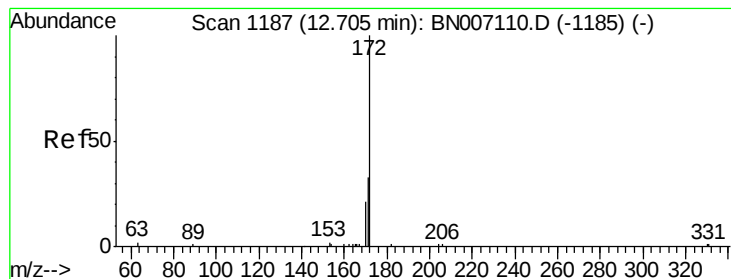


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#14

2-Fluorobiphenyl

Concen: 0.014 ng

RT: 12.71 min Scan# 1187

Delta R.T. -0.00 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

Instrument :

BNA_N

ClientSampleId :

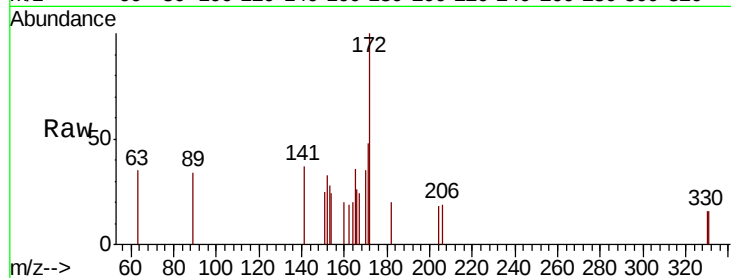
Tot Ion:172 Resp: 319

Ion Ratio Lower Upper

172 100

171 48.1 26.3 39.5#

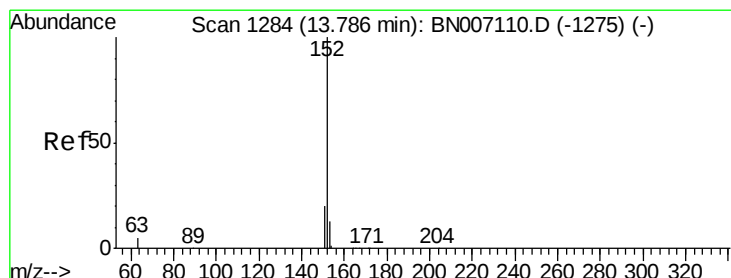
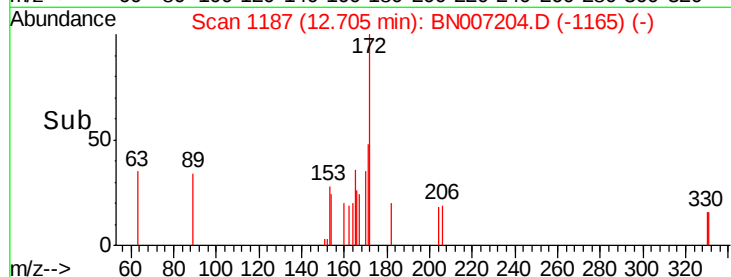
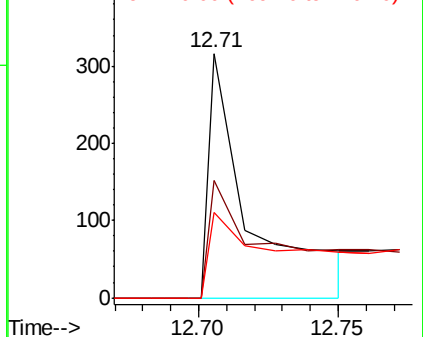
170 35.1 17.0 25.4#



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: 0.364 ng

RT: 13.79 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

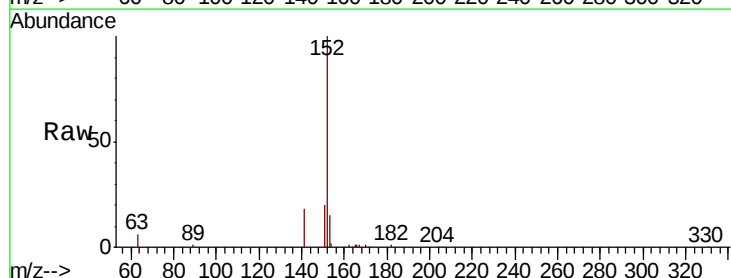
Tgt Ion:152 Resp: 30401

Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.6

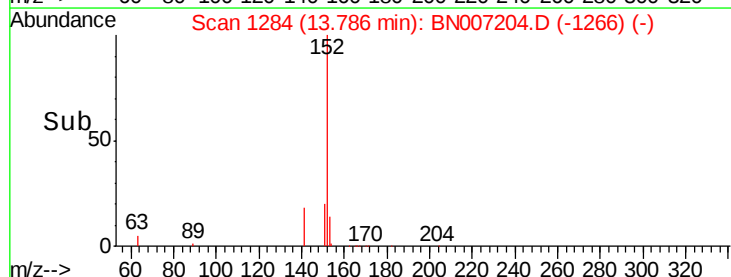
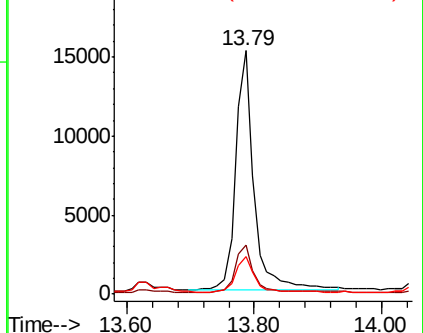
153 14.6 10.4 15.6

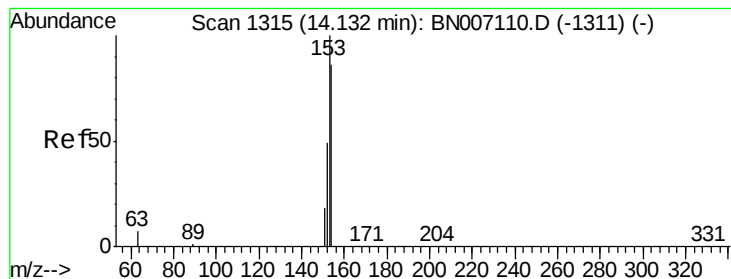


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#16

Acenaphthene

Concen: 0.159 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

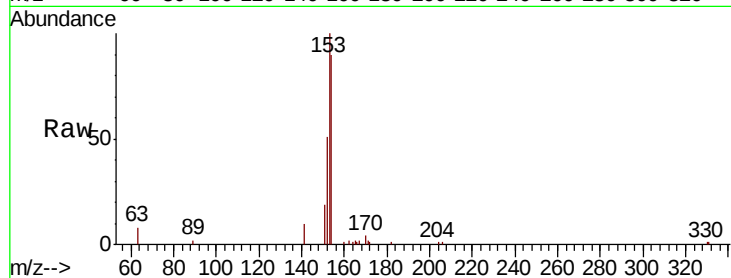
Instrument :

BNA_N

ClientSampleId :

Tot Ion:154 Resp: 8507

Ion	Ratio	Lower	Upper
154	100		
153	123.5	89.5	134.3
152	65.7	44.8	67.2

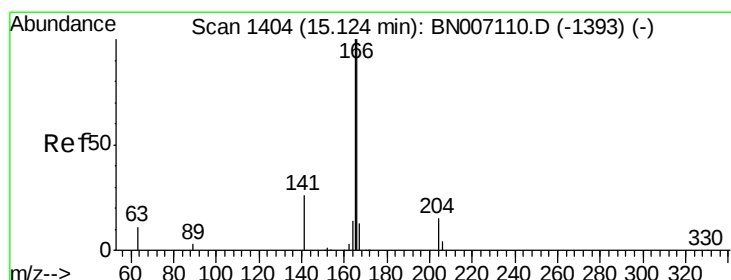
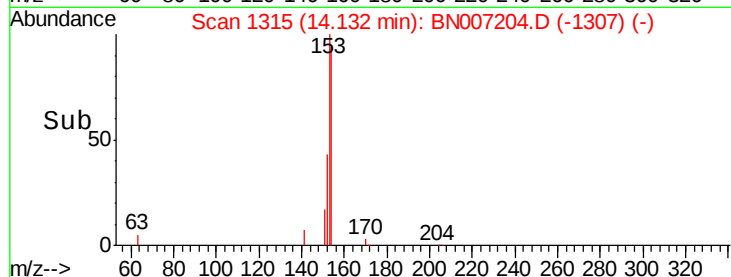
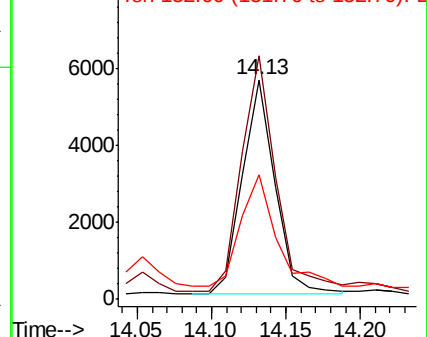


Abundance

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: 0.257 ng

RT: 15.12 min Scan# 1404

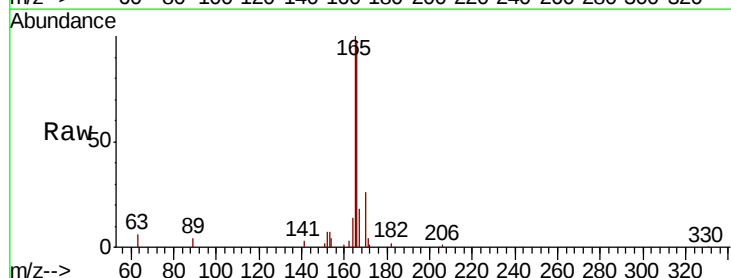
Delta R.T. -0.01 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

Tgt Ion:166 Resp: 20631

Ion	Ratio	Lower	Upper
166	100		
165	107.7	77.9	116.9
167	16.7	10.9	16.3#

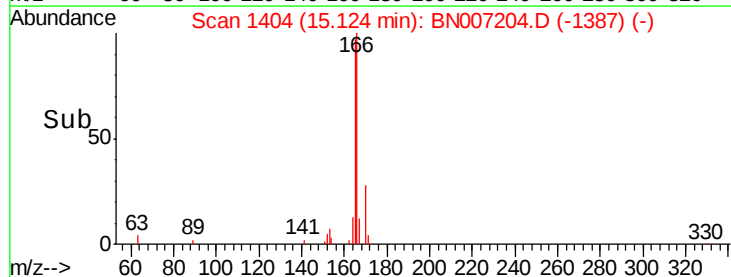
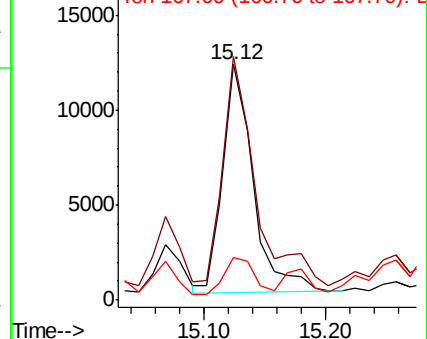


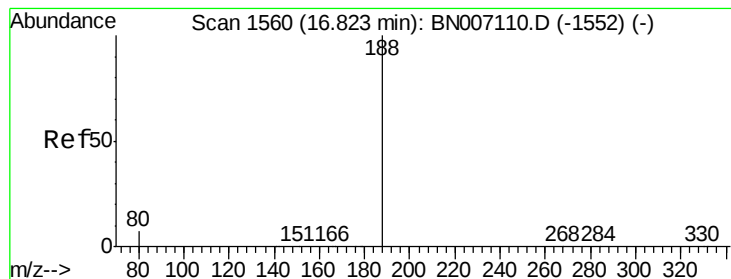
Abundance

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: BN007204.D

Acq: 15 Aug 2019 19:45

Instrument :

BNA_N

ClientSampleId :

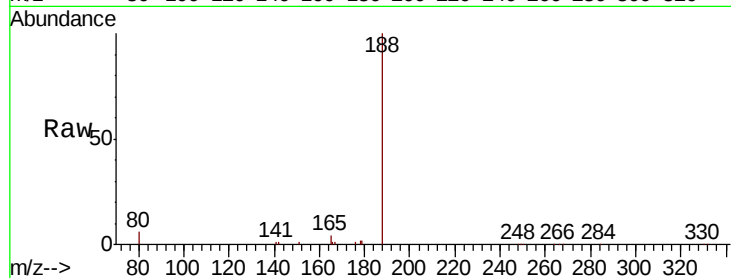
Tot Ion:188 Resp: 38003

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

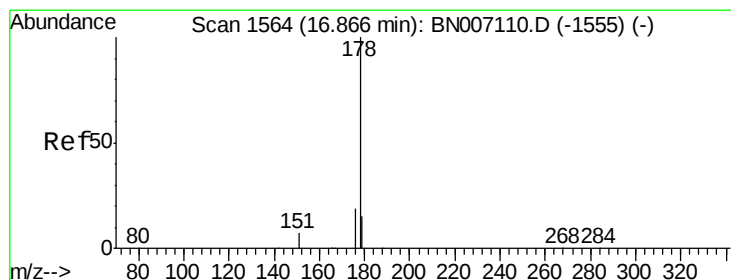
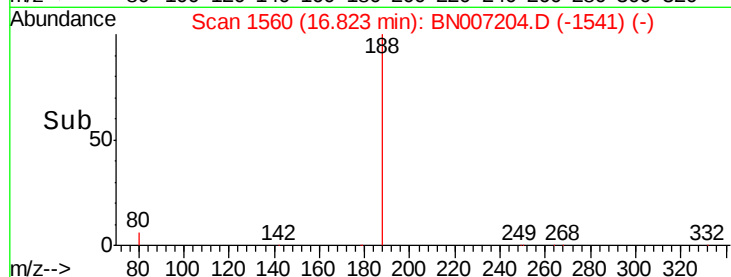
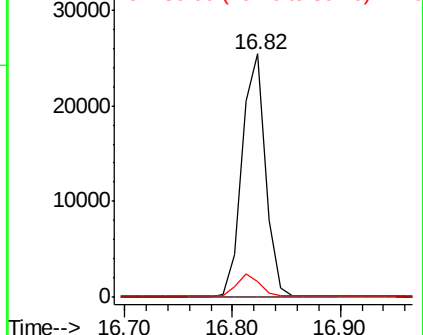
80 6.3 7.8 11.6#



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: 5.913 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

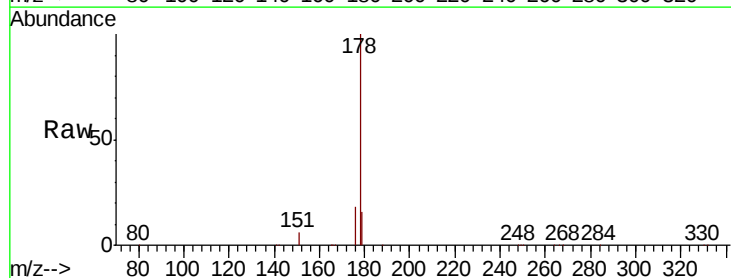
Tgt Ion:178 Resp: 673400

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

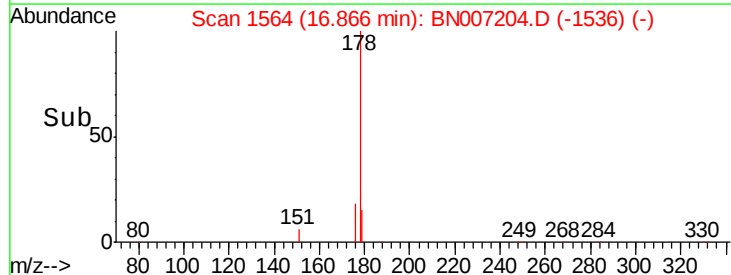
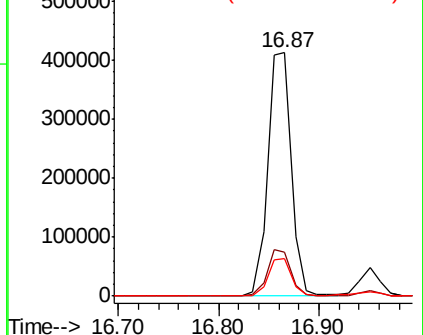
179 15.4 12.3 18.5



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: 0.625 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

Instrument :

BNA_N

ClientSampleId :

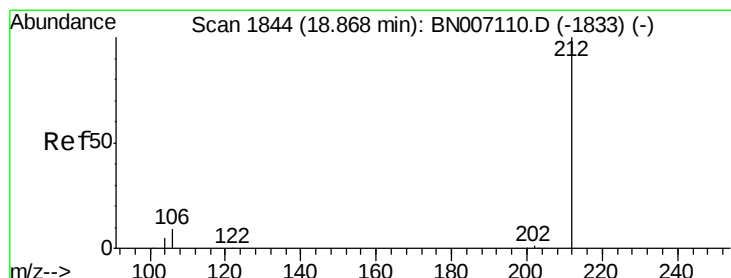
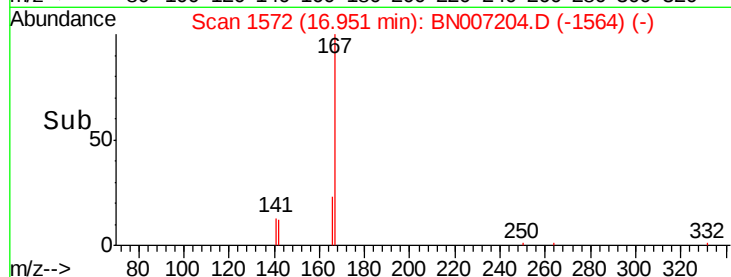
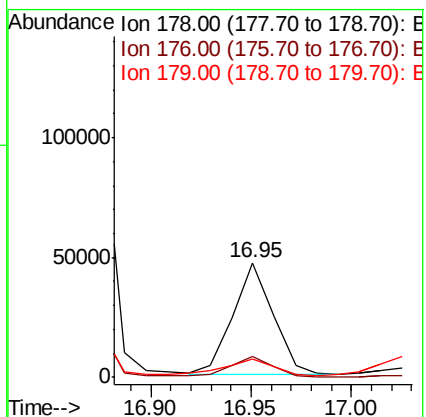
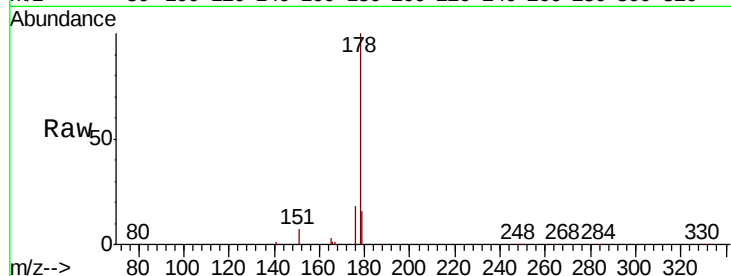
Tot Ion:178 Resp: 65041

Ion Ratio Lower Upper

178 100

176 18.4 14.6 21.8

179 18.0 12.5 18.7



#24

Fluoranthene-d10

Concen: 0.061 ng

RT: 18.86 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

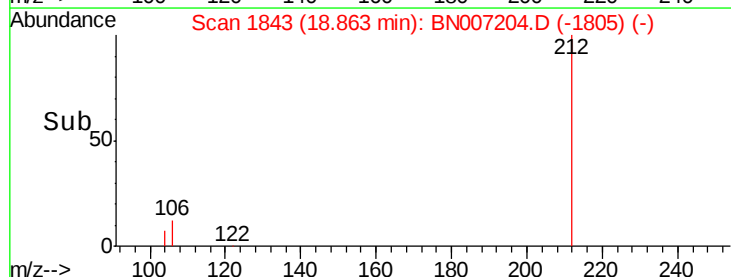
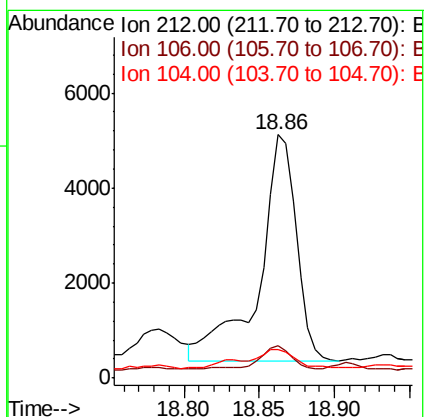
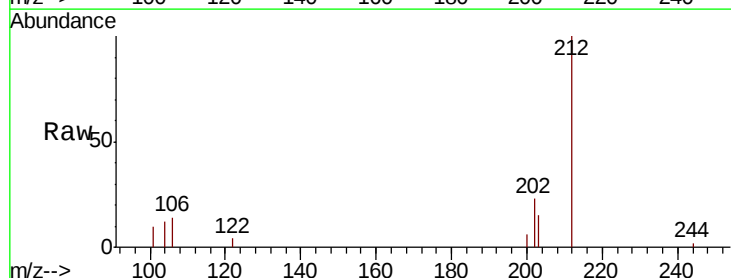
Tgt Ion:212 Resp: 8223

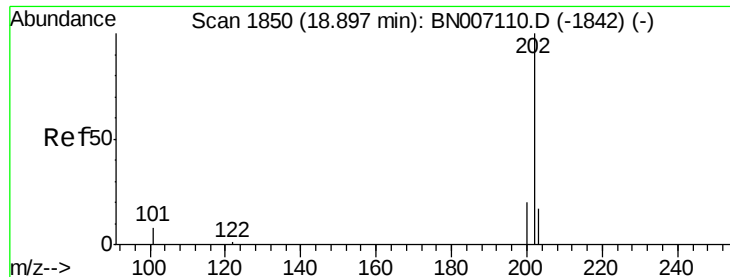
Ion Ratio Lower Upper

212 100

106 10.0 8.2 12.2

104 7.9 4.5 6.7#





#25

Fluoranthene

Concen: 3.987 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

Instrument :

BNA_N

ClientSampleId :

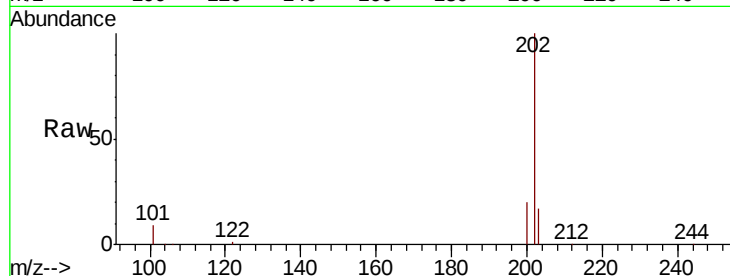
Tot Ion:202 Resp: 580805

Ion Ratio Lower Upper

202 100

101 9.2 7.0 10.4

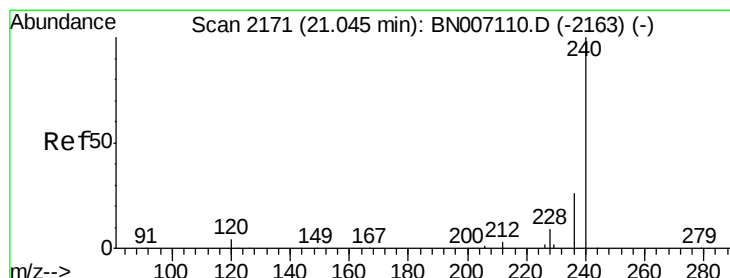
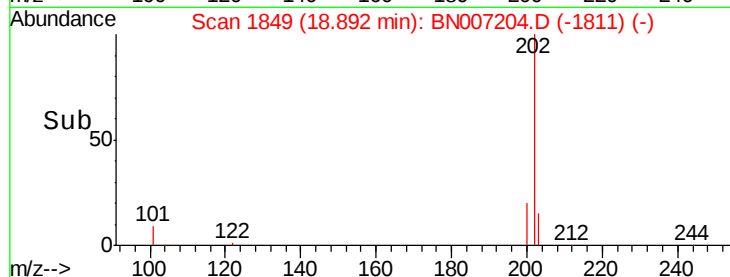
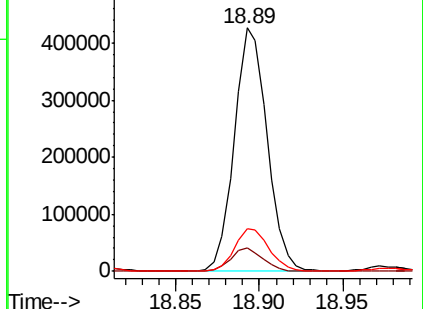
203 18.1 13.8 20.8



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: BN007204.D

Acq: 15 Aug 2019 19:45

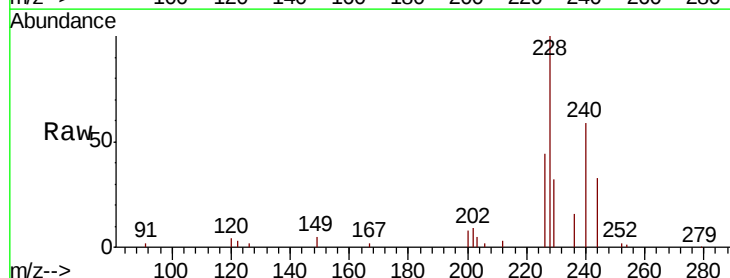
Tgt Ion:240 Resp: 38612

Ion Ratio Lower Upper

240 100

120 6.4 4.0 6.0#

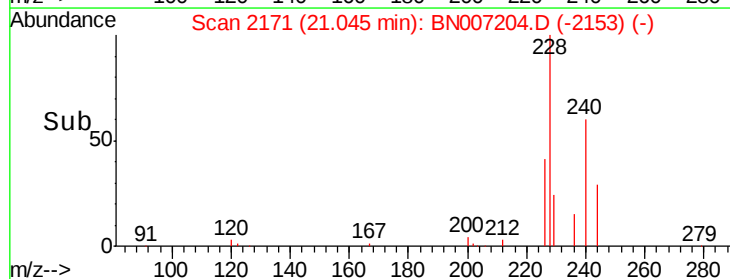
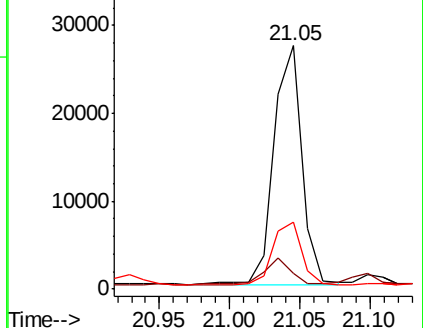
236 27.6 21.3 31.9

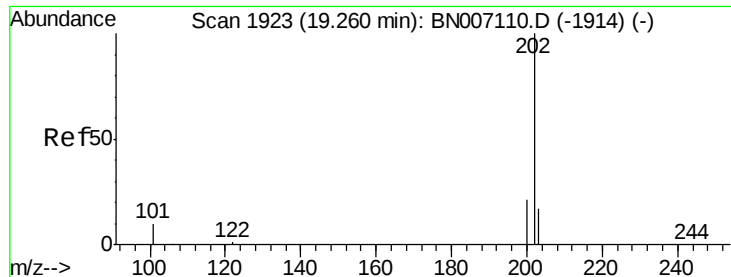


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

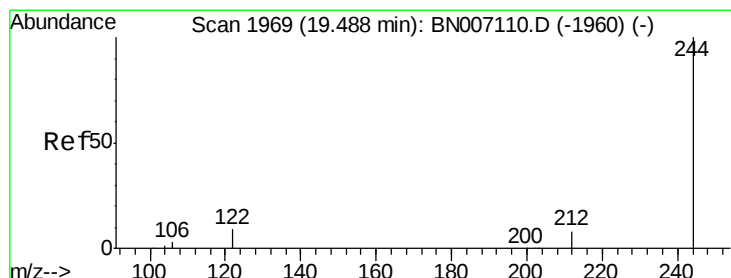
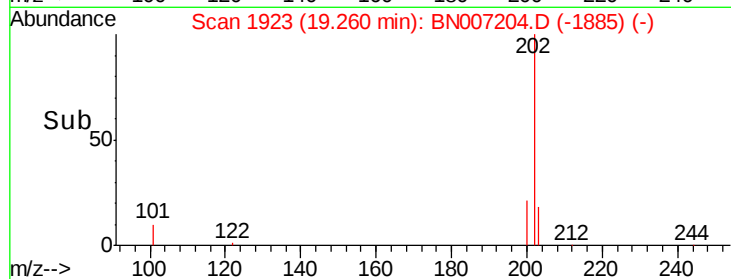
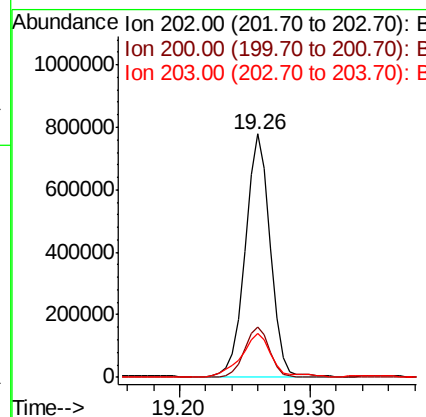
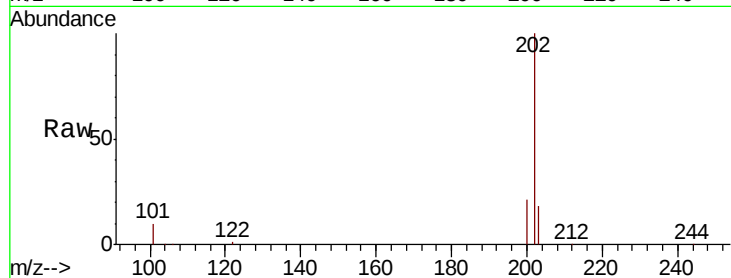




#27
Pvrene
Concen: 7.725 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007204.D
Acq: 15 Aug 2019 19:45

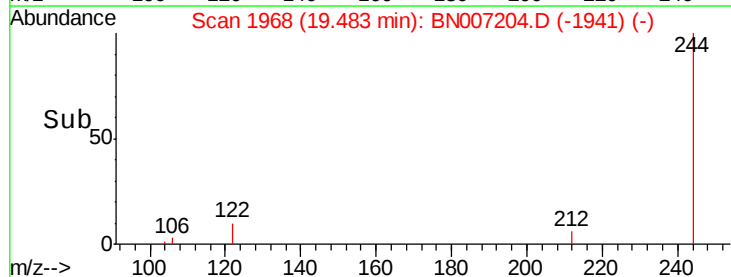
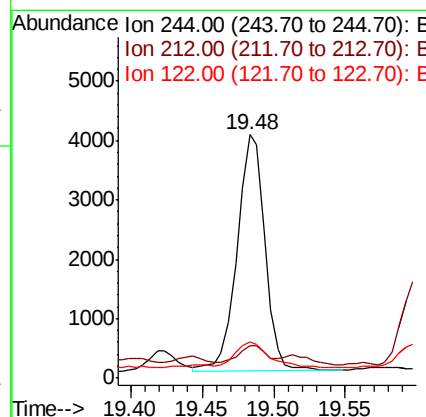
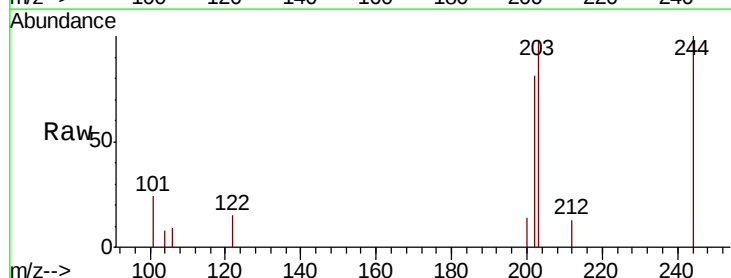
Instrument :
BNA_N
ClientSampleId :

Tot Ion:202 Resp: 1046000
Ion Ratio Lower Upper
202 100
200 20.8 16.6 24.8
203 20.8 14.0 21.0



#28
Terphenyl-d14
Concen: 0.051 ng
RT: 19.48 min Scan# 1968
Delta R.T. -0.02 min
Lab File: BN007204.D
Acq: 15 Aug 2019 19:45

Tgt Ion:244 Resp: 5385
Ion Ratio Lower Upper
244 100
212 13.1 6.2 9.2#
122 15.1 7.4 11.2#





#29

Benzo(a)anthracene

Concen: 2.822 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

Instrument :

BNA_N

ClientSampled :

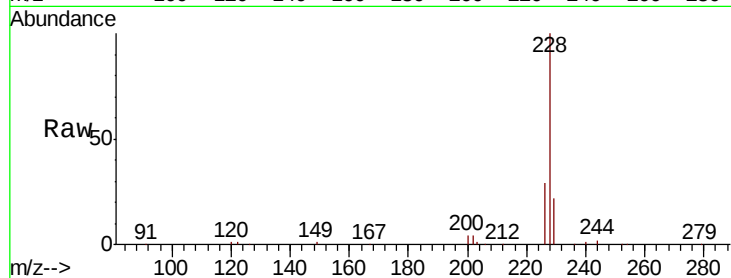
Tot Ion:228 Resp: 398420

Ion Ratio Lower Upper

228 100

226 29.3 21.8 32.6

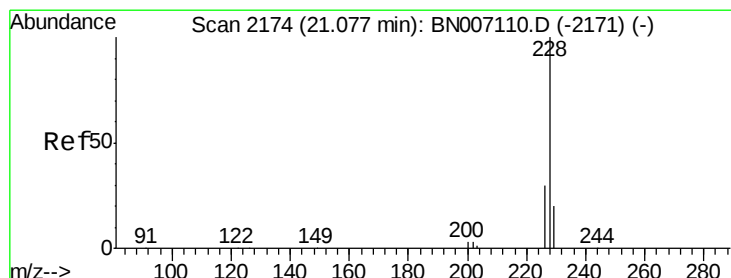
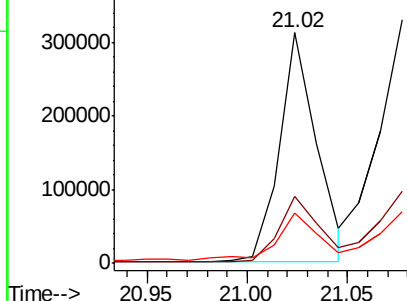
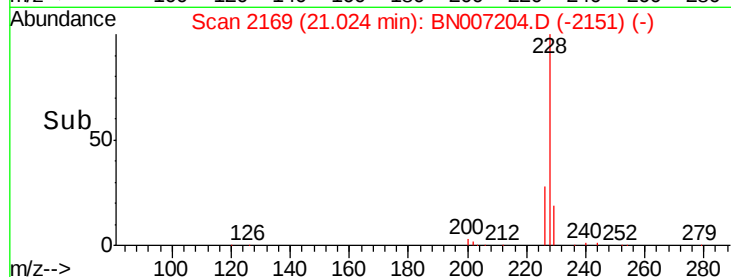
229 21.6 15.6 23.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#30

Chrysene

Concen: 3.413 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

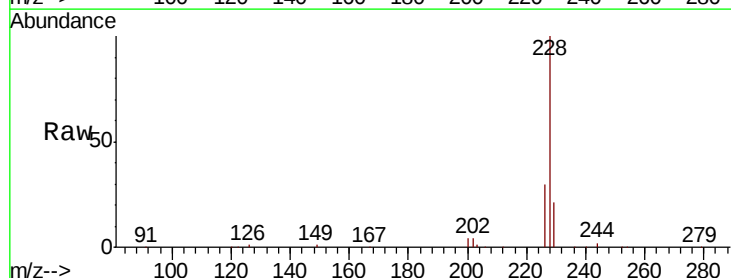
Tgt Ion:228 Resp: 468277

Ion Ratio Lower Upper

228 100

226 29.8 23.8 35.6

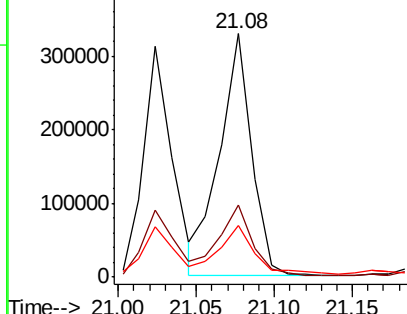
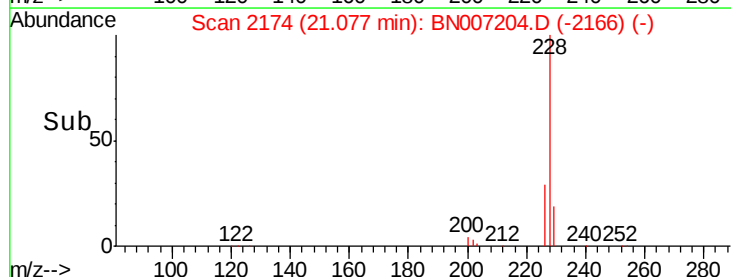
229 21.4 15.7 23.5



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: 1.041 ng

RT: 25.23 min Scan# 3125

Delta R.T. -0.02 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

Instrument :

BNA_N

ClientSampleId :

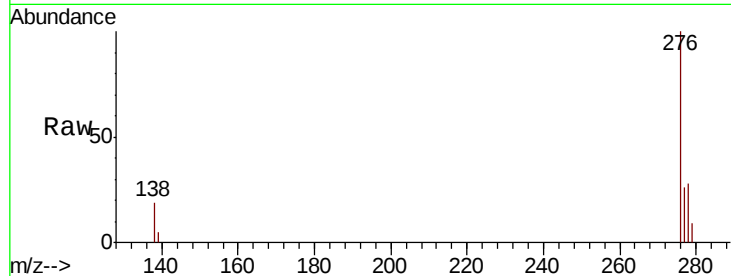
Tot Ion:276 Resp: 157412

Ion Ratio Lower Upper

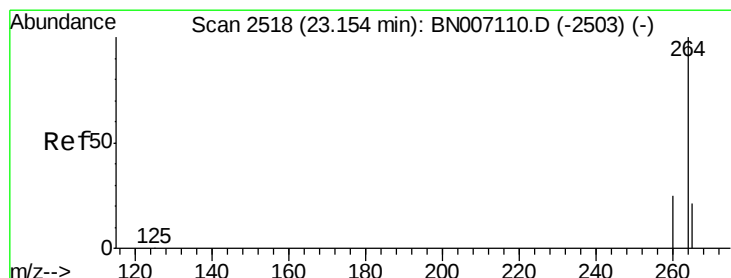
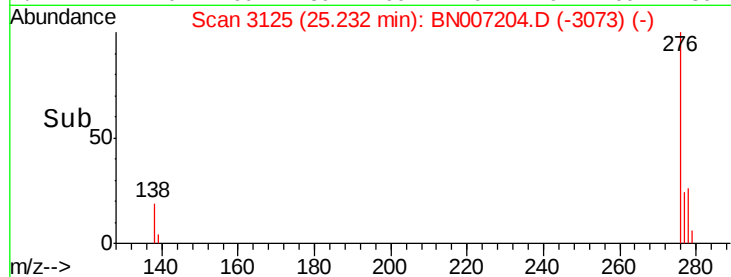
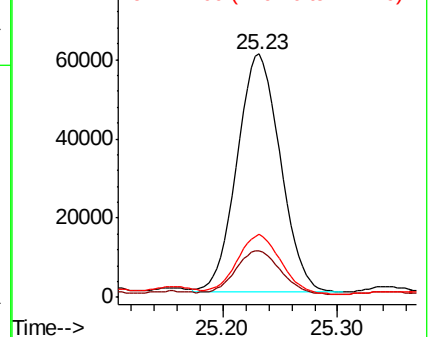
276 100

138 19.0 16.0 24.0

277 25.0 19.9 29.9



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



#32

Perylene-d12

Concen: 0.400 ng

RT: 23.16 min Scan# 2519

Delta R.T. -0.01 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

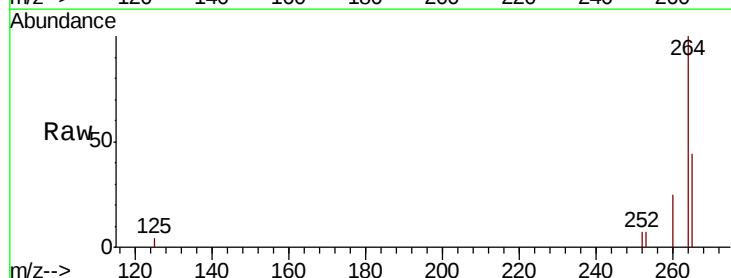
Tgt Ion:264 Resp: 42831

Ion Ratio Lower Upper

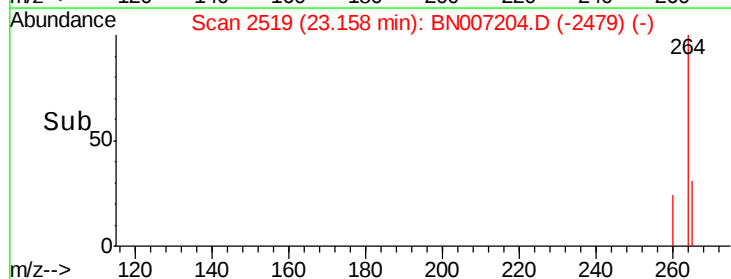
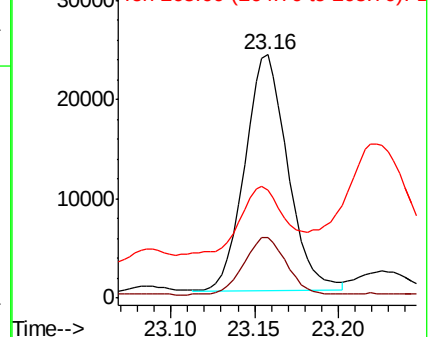
264 100

260 24.8 19.8 29.8

265 44.2 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: 2.943 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.01 min

Lab File: BN007204.D

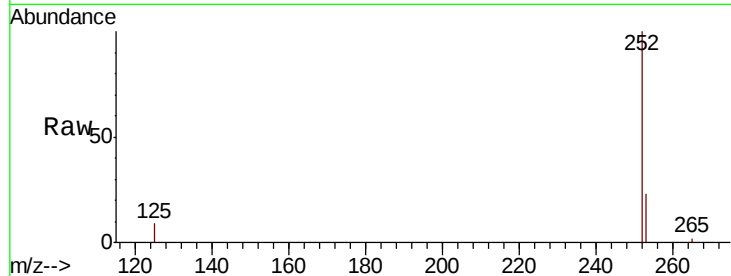
Acq: 15 Aug 2019 19:45

Instrument :

BNA_N

ClientSampleId :

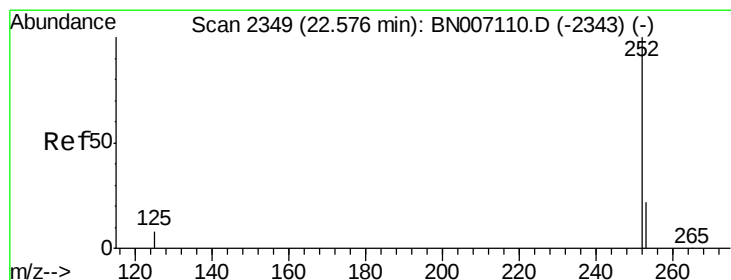
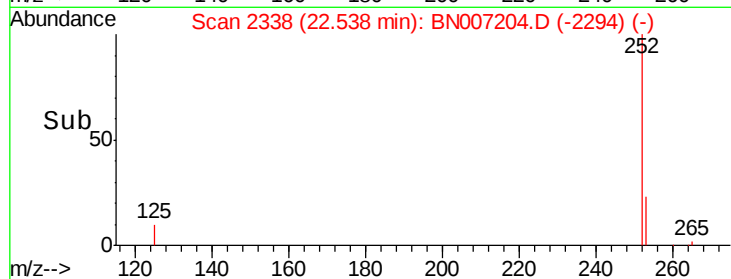
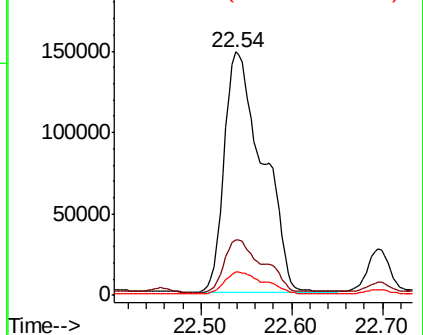
Tot Ion:252	Resp:	432313
Ion Ratio	Lower	Upper
252	100	
253	22.8	18.2 27.2
125	9.4	7.4 11.0



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: 2.983 ng

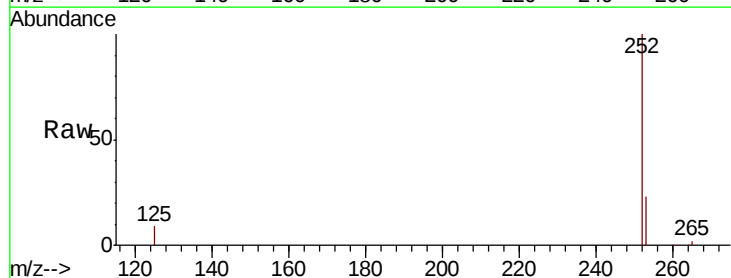
RT: 22.54 min Scan# 2338

Delta R.T. -0.05 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

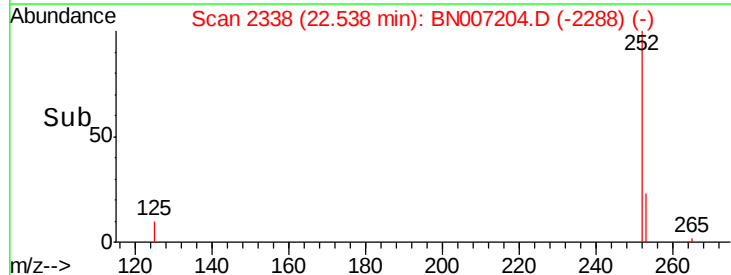
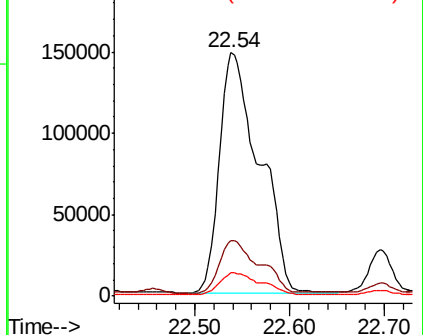
Tgt Ion:252	Resp:	432650
Ion Ratio	Lower	Upper
252	100	
253	22.8	18.1 27.1
125	9.4	7.4 11.0



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: 2.250 ng

RT: 23.07 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

Instrument :

BNA_N

ClientSampleId :

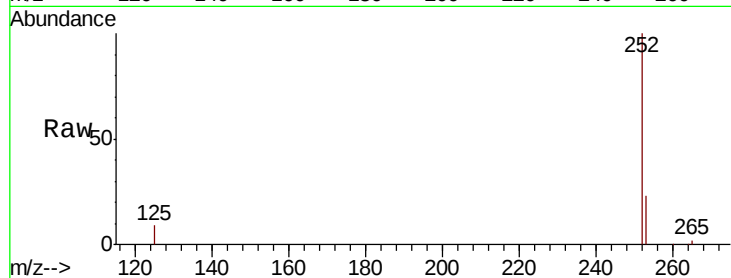
Tot Ion:252 Resp: 299611

Ion Ratio Lower Upper

252 100

253 22.7 18.5 27.7

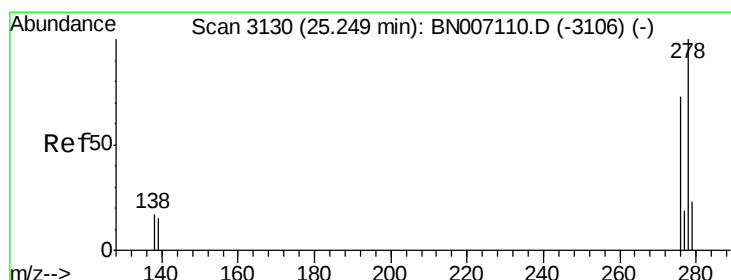
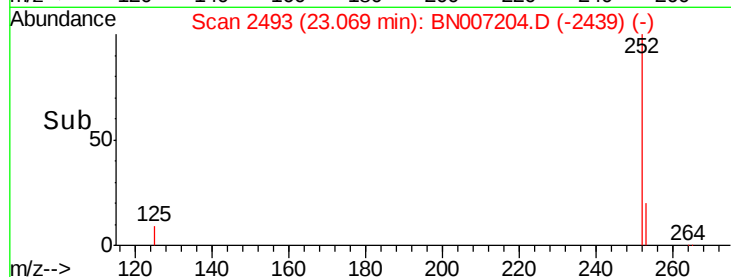
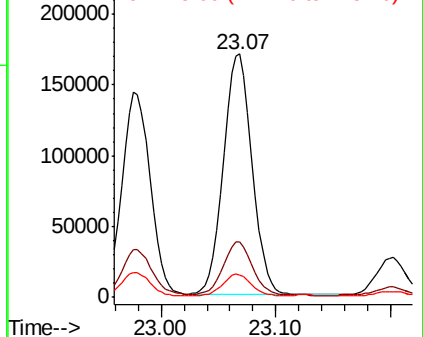
125 9.4 8.2 12.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Dibenzo(a,h)anthracene

Concen: 0.393 ng

RT: 25.24 min Scan# 3126

Delta R.T. -0.04 min

Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

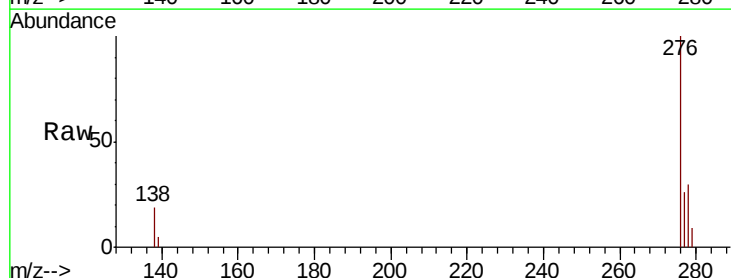
Tgt Ion:278 Resp: 52197

Ion Ratio Lower Upper

278 100

139 17.9 11.3 16.9#

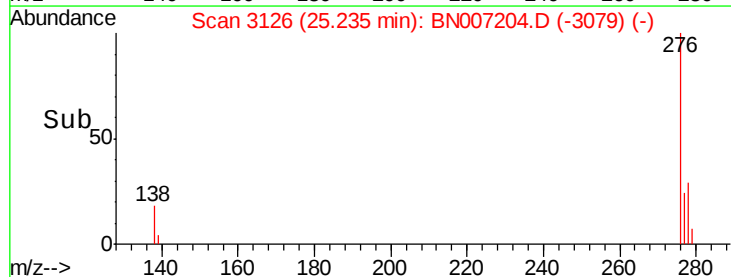
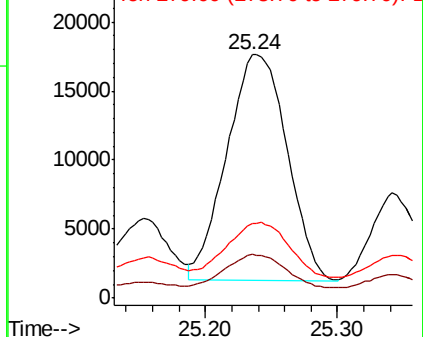
279 30.6 19.3 28.9#

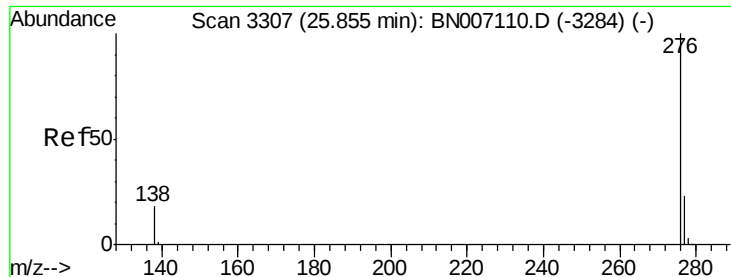


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#37

Benzo(a,h,i)perylene

Concen: 1.472 ng

RT: 25.86 min Scan# 3309

Delta R.T. -0.02 min

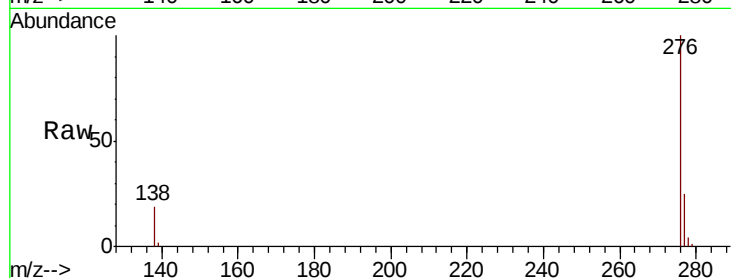
Lab File: BN007204.D

Acq: 15 Aug 2019 19:45

Instrument :

BNA_N

ClientSampleId :



Tot Ion: 276 Resp: 201154

Ion Ratio Lower Upper

276 100

277 24.7 19.8 29.8

138 19.1 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

