

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081519\
 Data File : BN007214.D
 Acq On : 16 Aug 2019 01:46
 Operator : HP/JU
 Sample : K4282-11
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 16 07:08:07 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	5789	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	21943	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	12469	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	30116	0.40	ng	0.00
26) Chrysene-d12	21.03	240	31348	0.40	ng	-0.02
32) Perylene-d12	23.15	264	34094	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.05	112	4082	0.29	ng	0.00
4) Phenol-d6	6.61	99	5352	0.31	ng	0.00
7) Nitrobenzene-d5	8.55	82	3838	0.22	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	7369	0.18	ng	-0.01
13) 2,4,6-Tribromophenol	15.57	330	1105	0.16	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	1014	0.06	ng	0.00
24) Fluoranthene-d10	18.86	212	13822	0.13	ng	-0.01
28) Terphenyl-d14	19.48	244	9418	0.11	ng	-0.02

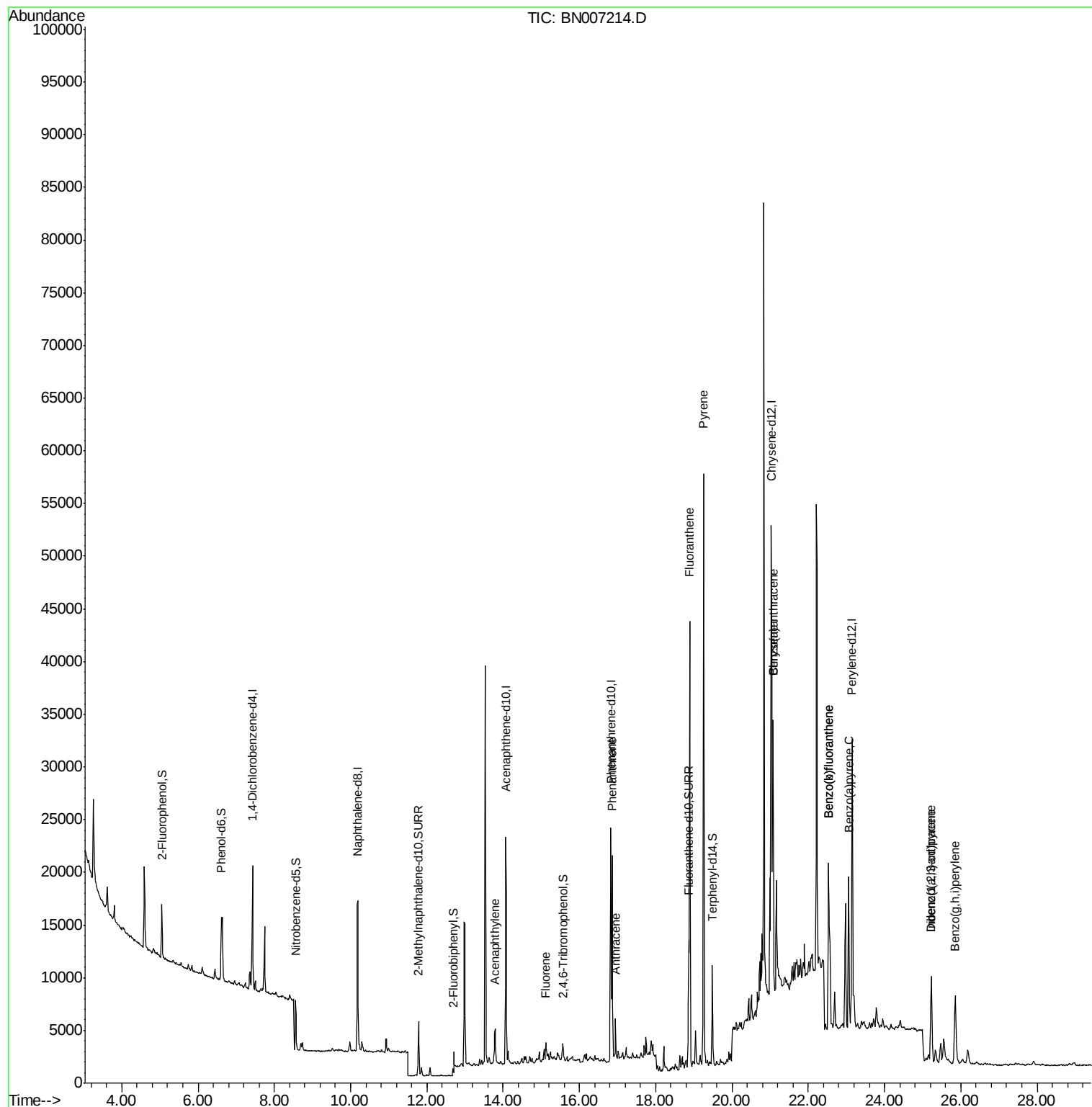
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) Acenaphthylene	13.79	152	6235	0.096	ng	99
17) Fluorene	15.12	166	1453	0.023	ng	83
22) Phenanthrene	16.87	178	22775	0.252	ng	99
23) Anthracene	16.95	178	3453	0.042	ng	# 95
25) Fluoranthene	18.89	202	38368	0.332	ng	99
27) Pyrene	19.26	202	49627	0.451	ng	# 96
29) Benzo(a)anthracene	21.08	228	25336	0.221	ng	93
30) Chrysene	21.08	228	25261	0.227	ng	96
31) Indeno(1,2,3-cd)pyrene	25.22	276	12194	0.099	ng	99
33) Benzo(b)fluoranthene	22.53	252	34058	0.291	ng	# 90
34) Benzo(k)fluoranthene	22.53	252	34058	0.295	ng	# 90
35) Benzo(a)pyrene	23.06	252	19522	0.184	ng	# 89
36) Dibenzo(a,h)anthracene	25.23	278	3538	0.033	ng	# 46
37) Benzo(g,h,i)perylene	25.85	276	13420	0.123	ng	# 89

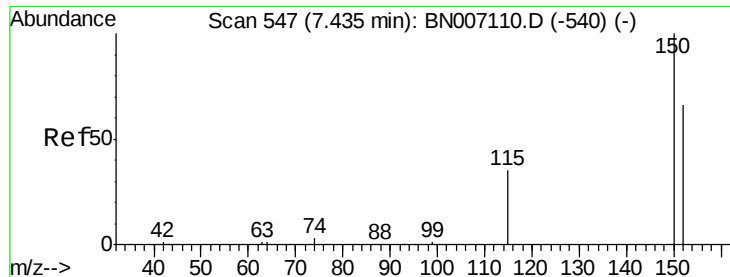
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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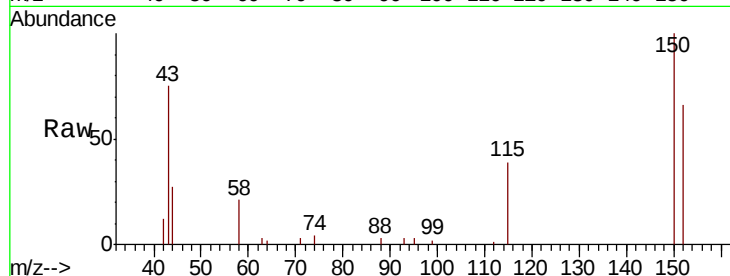


#1

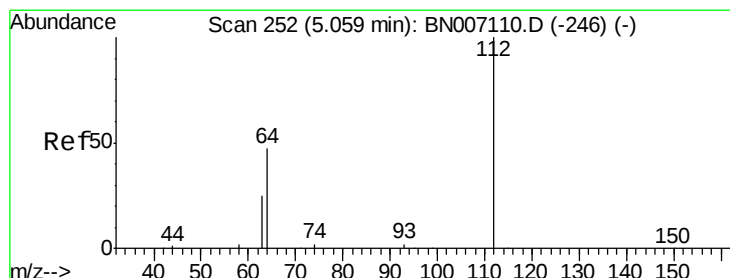
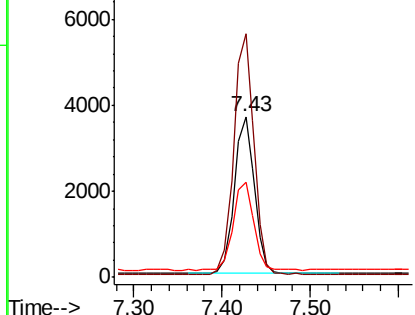
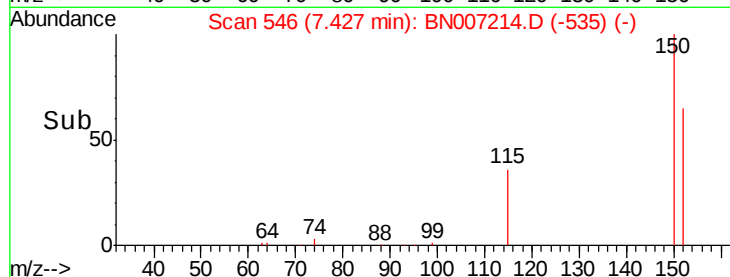
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007214.D
Acq: 16 Aug 2019 01:46

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 5789
Ion Ratio Lower Upper
152 100
150 151.8 121.7 182.5
115 58.9 46.2 69.4



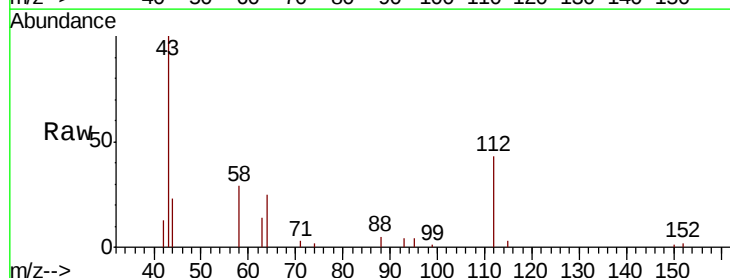
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



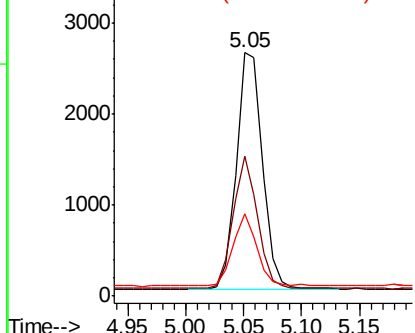
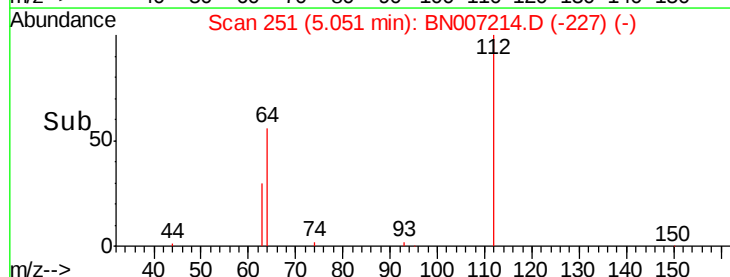
#3

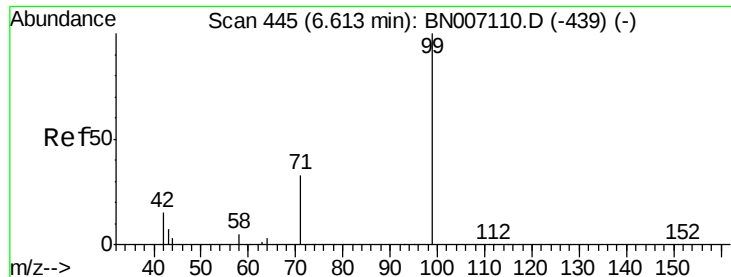
2-Fluorophenol
Concen: 0.293 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007214.D
Acq: 16 Aug 2019 01:46

Tgt Ion:112 Resp: 4082
Ion Ratio Lower Upper
112 100
64 51.8 42.6 63.8
63 27.7 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: 0.311 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007214.D

Acq: 16 Aug 2019 01:46

Instrument :

BNA_N

ClientSampleId :

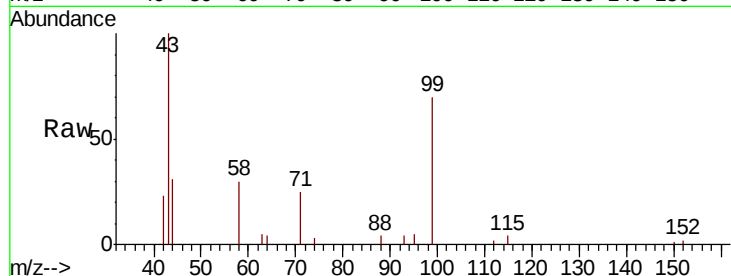
Tot Ion: 99 Resp: 5352

Ion Ratio Lower Upper

99 100

42 24.9 15.8 23.6#

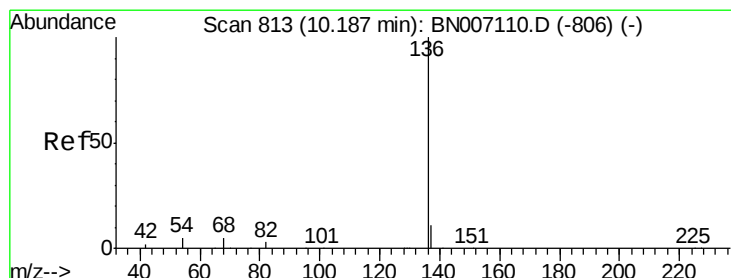
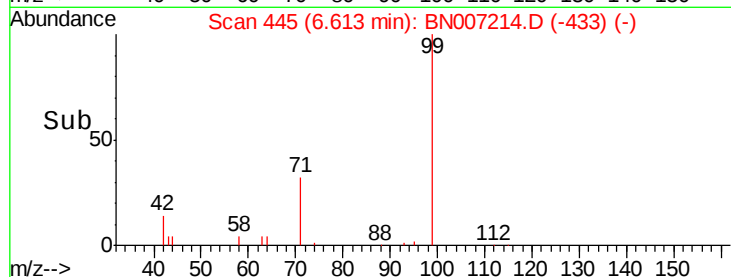
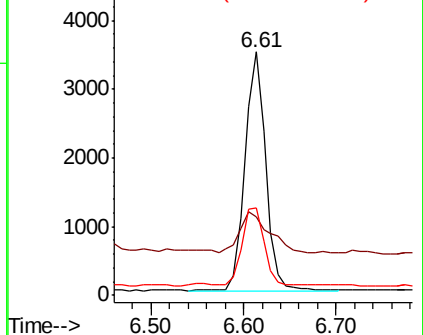
71 34.3 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007214.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007214.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007214.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007214.D

Acq: 16 Aug 2019 01:46

Tgt Ion: 136 Resp: 21943

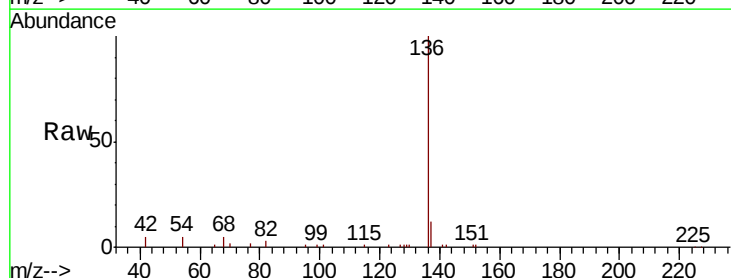
Ion Ratio Lower Upper

136 100

137 11.6 9.4 14.0

54 4.7 6.6 9.8#

68 4.6 6.0 9.0#

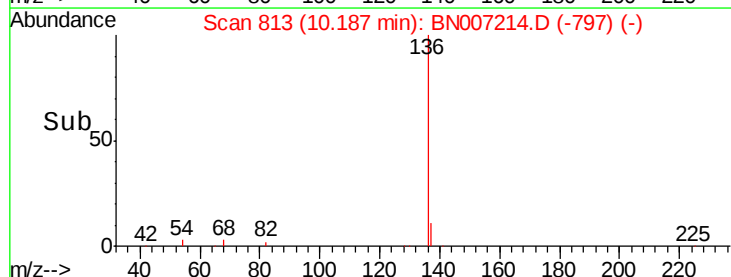
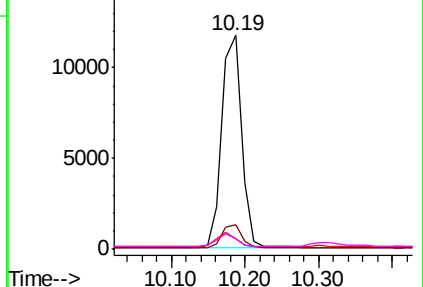


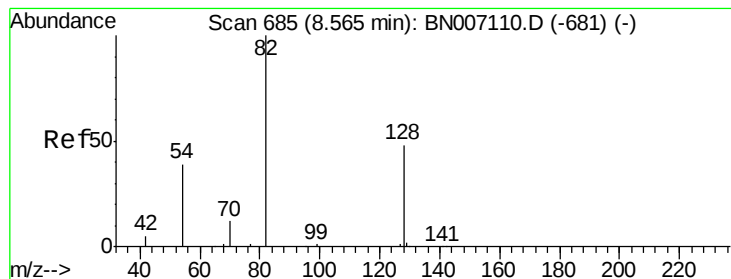
Abundance Ion 136.00 (135.70 to 136.70): BN007214.D (-797) (-)

Ion 137.00 (136.70 to 137.70): BN007214.D (-797) (-)

Ion 54.00 (53.70 to 54.70): BN007214.D (-797) (-)

Ion 68.00 (67.70 to 68.70): BN007214.D (-797) (-)





#7

Nitrobenzene-d5

Concen: 0.217 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007214.D

Acq: 16 Aug 2019 01:46

Instrument :

BNA_N

ClientSampleId :

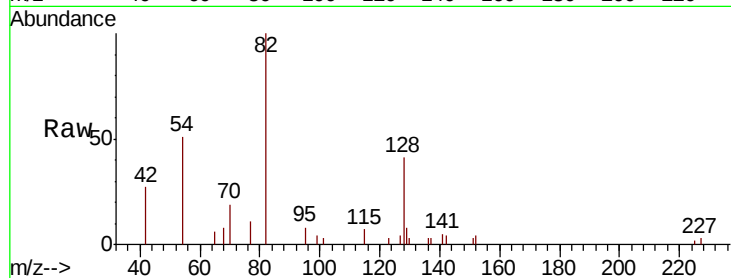
Tot Ion: 82 Resp: 3838

Ion Ratio Lower Upper

82 100

128 40.8 34.6 51.8

54 50.5 36.2 54.4



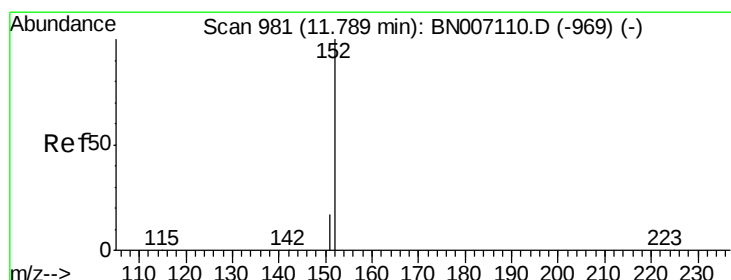
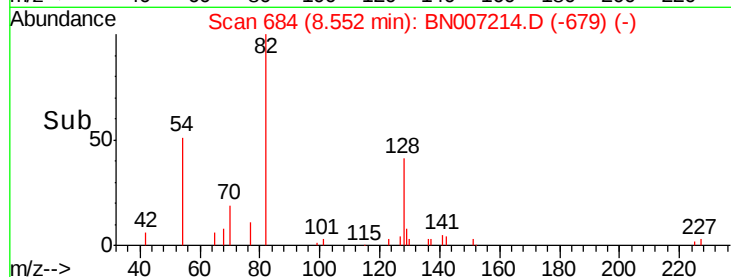
Abundance Ion 82.00 (81.70 to 82.70): BN007214.D (-681) (-)

Ion 128.00 (127.70 to 128.70): BN007214.D (-681) (-)

Ion 54.00 (53.70 to 54.70): BN007214.D (-681) (-)

8.55

Time-->



#10

2-Methylnaphthalene-d10

Concen: 0.180 ng

RT: 11.78 min Scan# 979

Delta R.T. -0.01 min

Lab File: BN007214.D

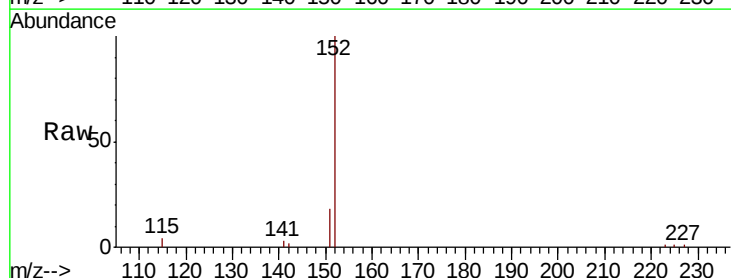
Acq: 16 Aug 2019 01:46

Tgt Ion: 152 Resp: 7369

Ion Ratio Lower Upper

152 100

151 19.7 15.5 23.3

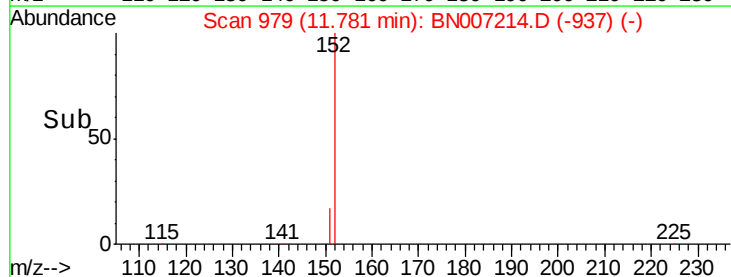


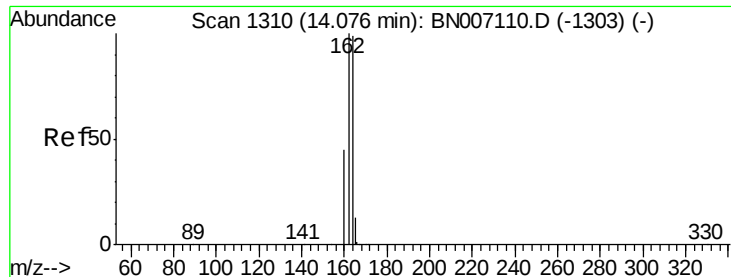
Abundance Ion 152.00 (151.70 to 152.70): BN007214.D (-969) (-)

Ion 151.00 (150.70 to 151.70): BN007214.D (-969) (-)

11.78

Time-->





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007214.D

Acq: 16 Aug 2019 01:46

Instrument :

BNA_N

ClientSampleId :

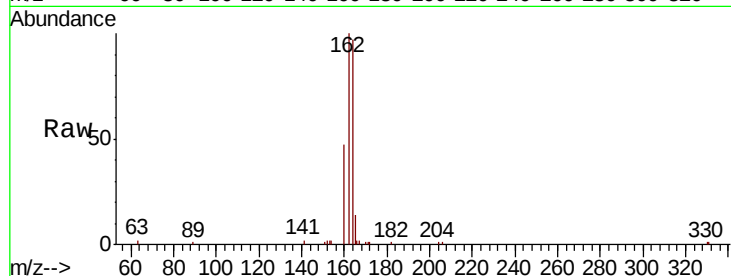
Tot Ion:164 Resp: 12469

Ion Ratio Lower Upper

164 100

162 103.4 82.2 123.4

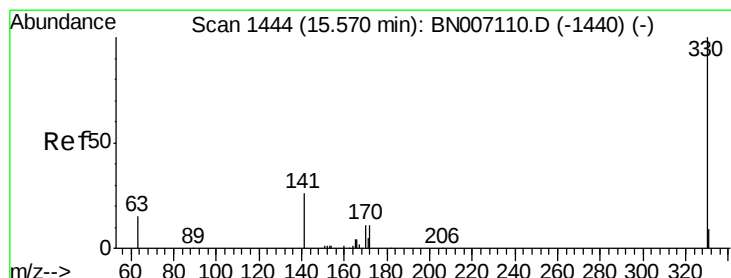
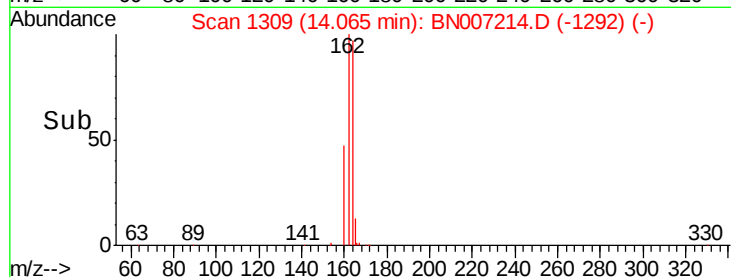
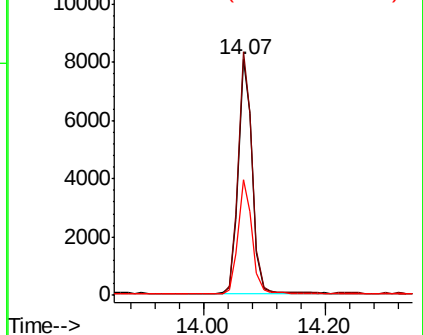
160 48.9 38.3 57.5



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: 0.165 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007214.D

Acq: 16 Aug 2019 01:46

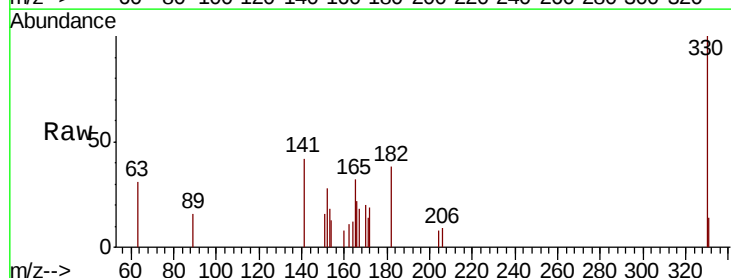
Tgt Ion:330 Resp: 1105

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

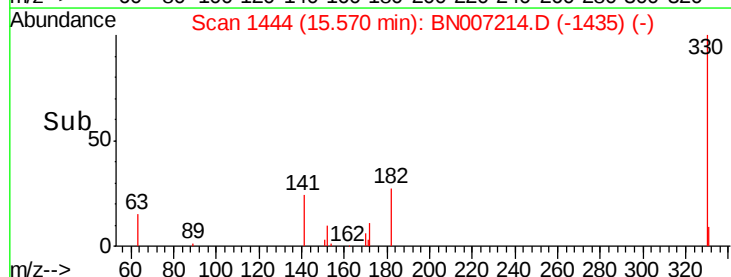
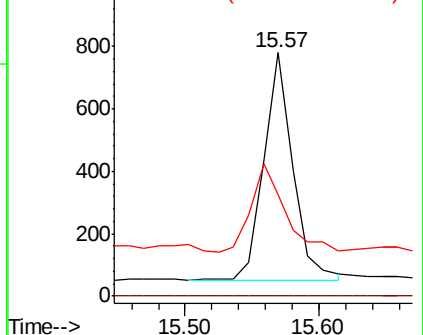
141 44.8 33.6 50.4

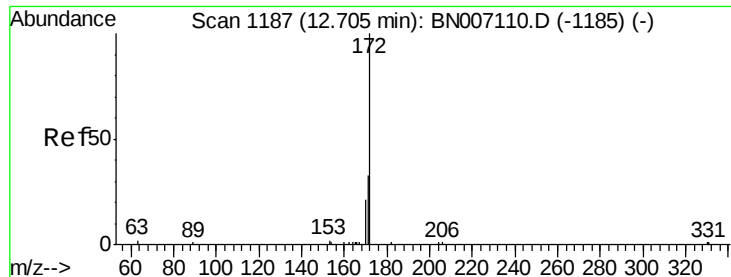


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

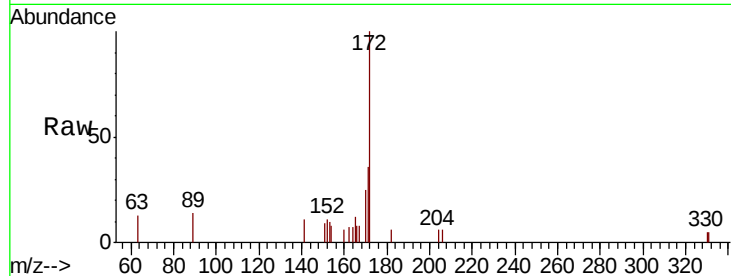




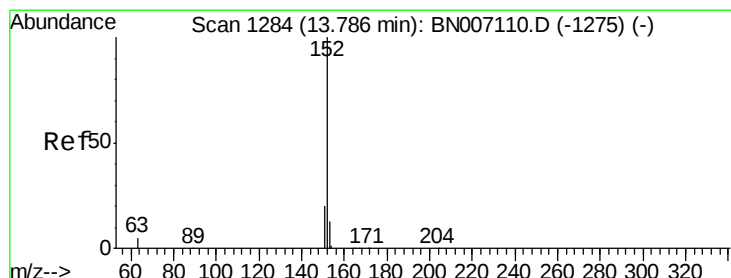
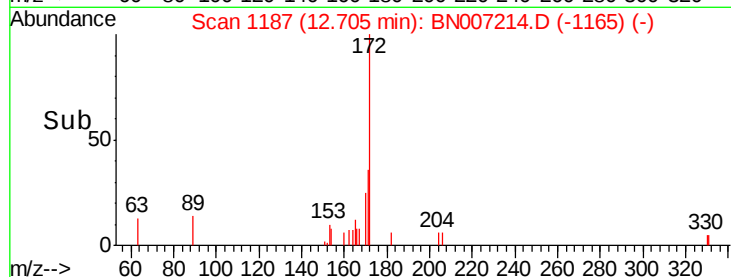
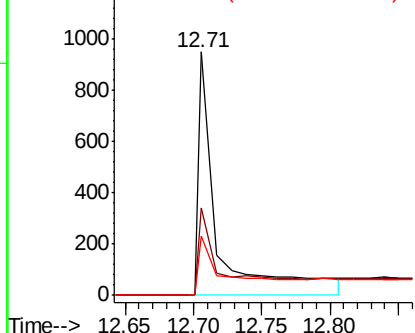
#14
2-Fluorobiphenyl
Concen: 0.056 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007214.D
Acq: 16 Aug 2019 01:46

Instrument :
BNA_N
ClientSampleId :

Tot Ion:172 Resp: 1014
Ion Ratio Lower Upper
172 100
171 36.1 26.3 39.5
170 24.7 17.0 25.4

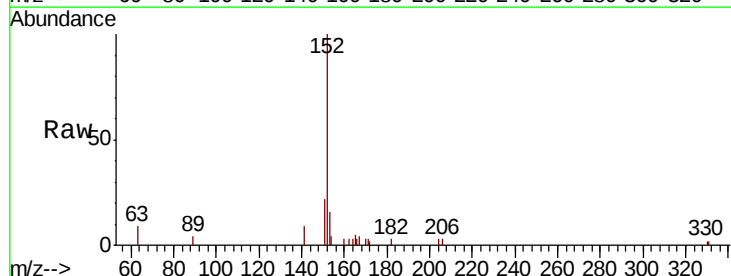


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

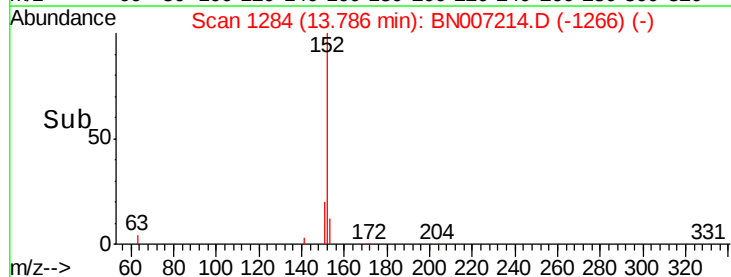
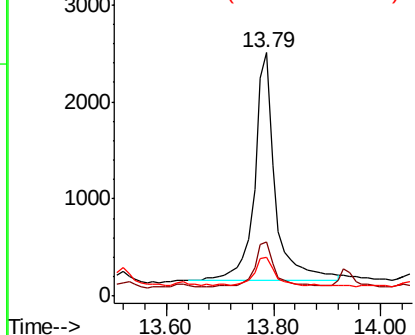


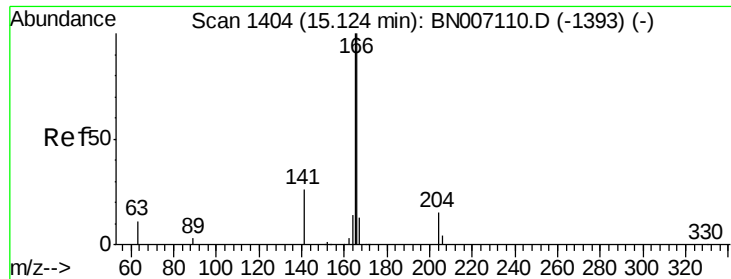
#15
Acenaphthylene
Concen: 0.096 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007214.D
Acq: 16 Aug 2019 01:46

Tgt Ion:152 Resp: 6235
Ion Ratio Lower Upper
152 100
151 20.6 15.8 23.6
153 12.7 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

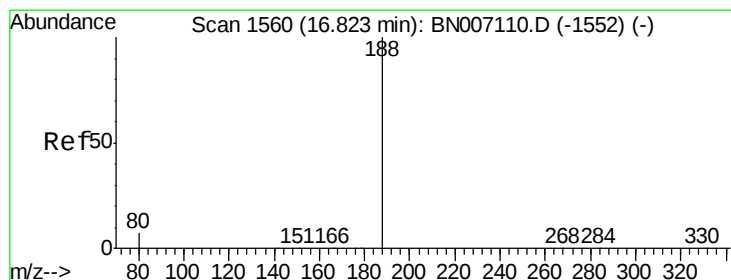
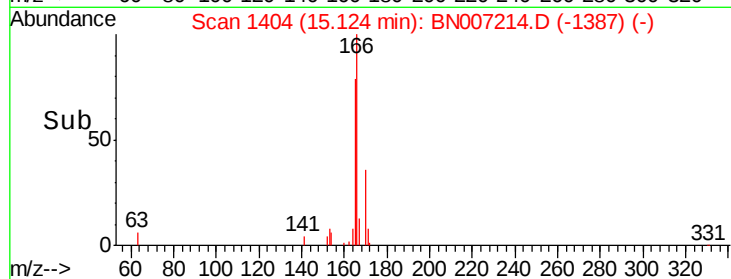
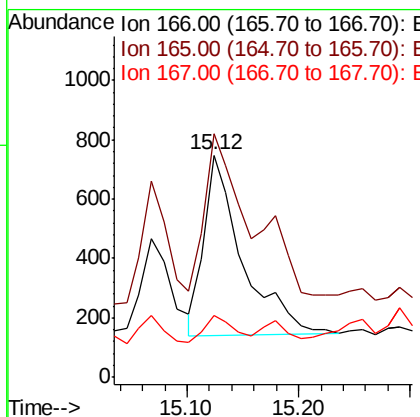
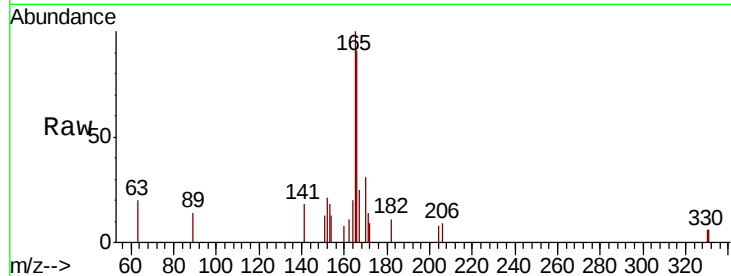




#17
 Fluorene
 Concen: 0.023 ng
 RT: 15.12 min Scan# 1404
 Delta R.T. -0.01 min
 Lab File: BN007214.D
 Acq: 16 Aug 2019 01:46

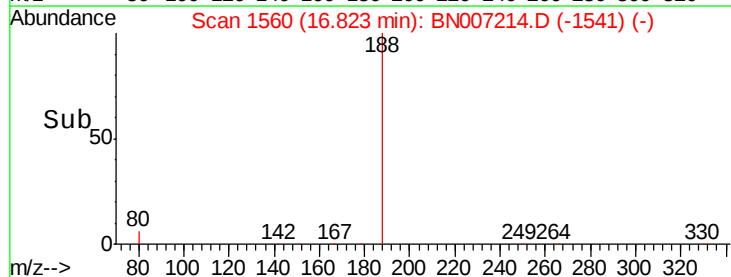
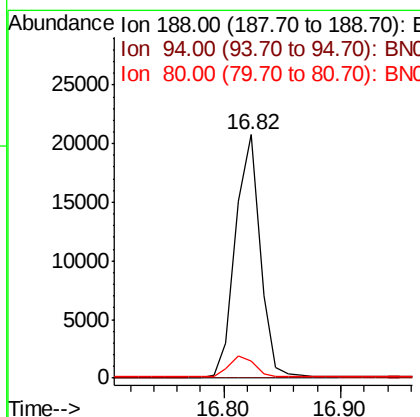
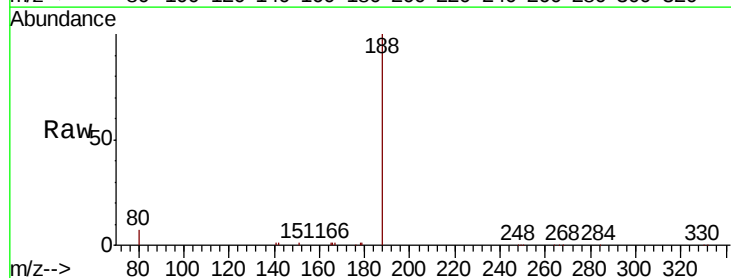
Instrument :
 BNA_N
 ClientSampleId :

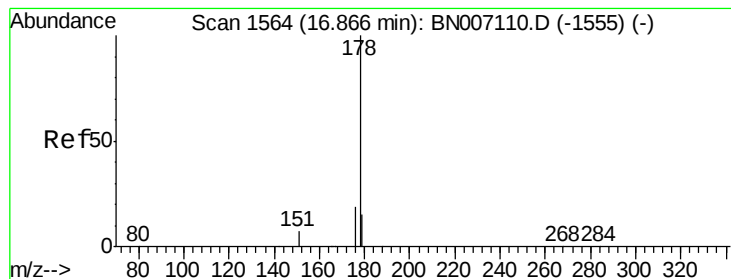
Tot Ion:166 Resp: 1453
 Ion Ratio Lower Upper
 166 100
 165 115.3 77.9 116.9
 167 11.8 10.9 16.3



#18
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.82 min Scan# 1560
 Delta R.T. -0.00 min
 Lab File: BN007214.D
 Acq: 16 Aug 2019 01:46

Tgt Ion:188 Resp: 30116
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 6.9 7.8 11.6#





#22

Phenanthrene

Concen: 0.252 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007214.D

Acq: 16 Aug 2019 01:46

Instrument :

BNA_N

ClientSampleId :

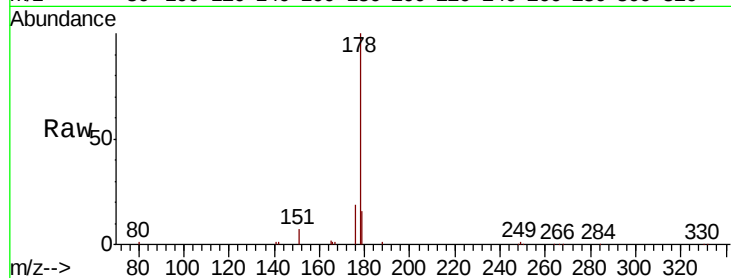
Tot Ion:178 Resp: 22775

Ion Ratio Lower Upper

178 100

176 18.8 15.2 22.8

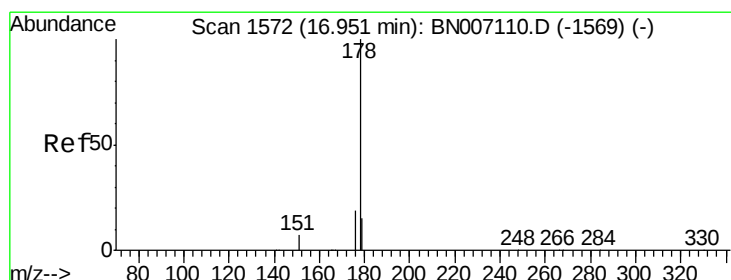
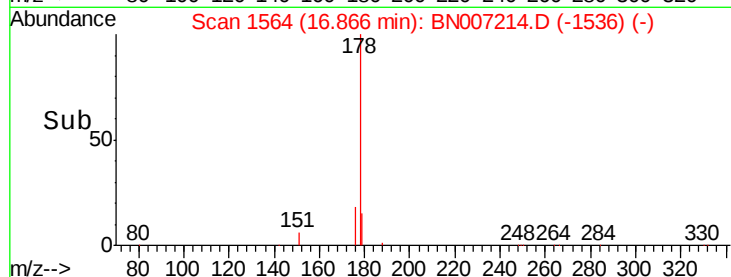
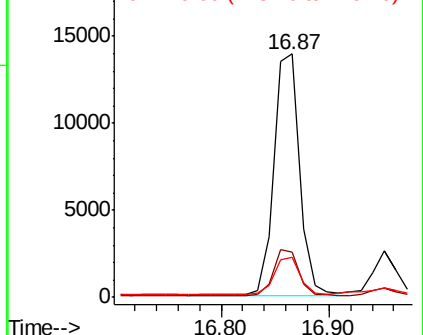
179 16.1 12.3 18.5



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: 0.042 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007214.D

Acq: 16 Aug 2019 01:46

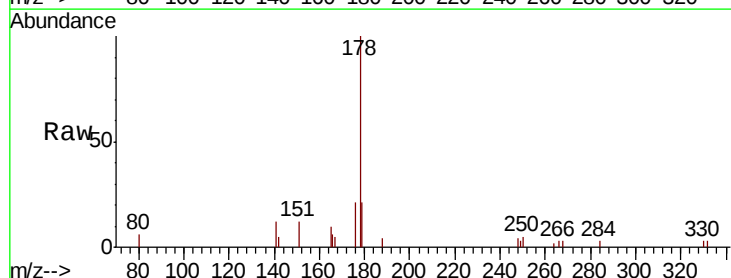
Tgt Ion:178 Resp: 3453

Ion Ratio Lower Upper

178 100

176 18.2 14.6 21.8

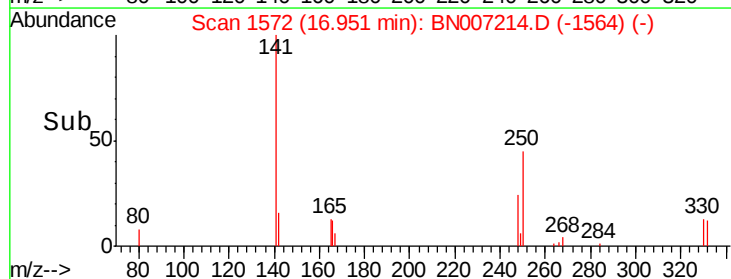
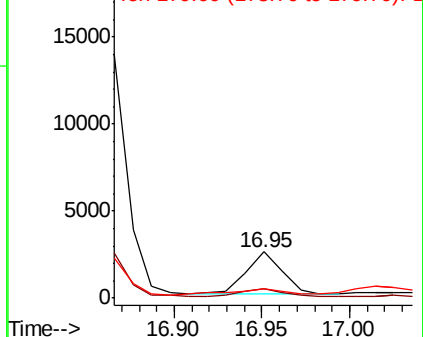
179 20.2 12.5 18.7#

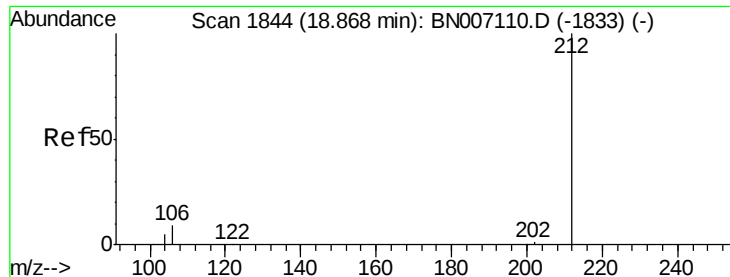


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Fluoranthene-d10

Concen: 0.129 ng

RT: 18.86 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BN007214.D

Acq: 16 Aug 2019 01:46

Instrument :

BNA_N

ClientSampleId :

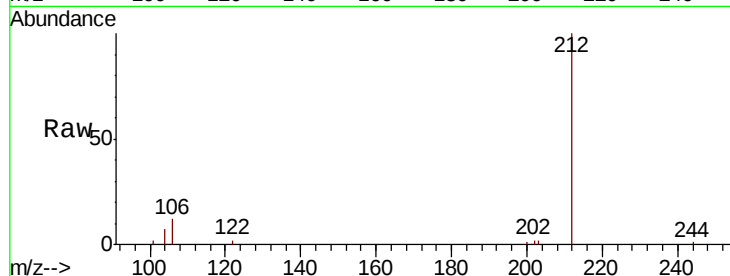
Tot Ion:212 Resp: 13822

Ion Ratio Lower Upper

212 100

106 10.8 8.2 12.2

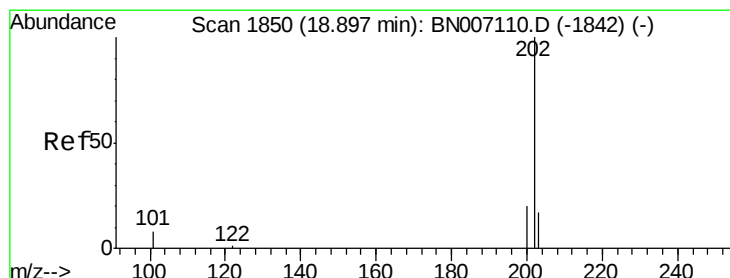
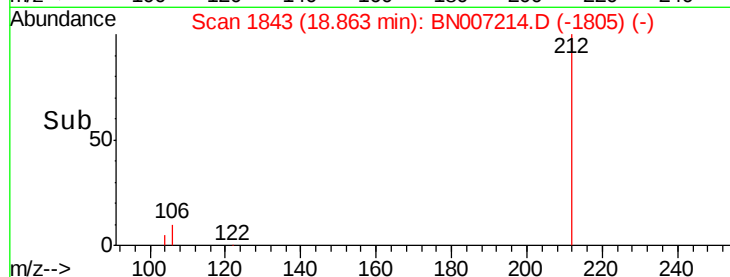
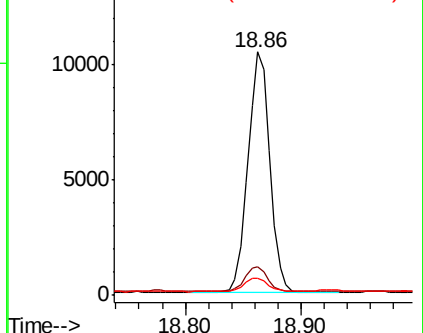
104 6.7 4.5 6.7



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: 0.332 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007214.D

Acq: 16 Aug 2019 01:46

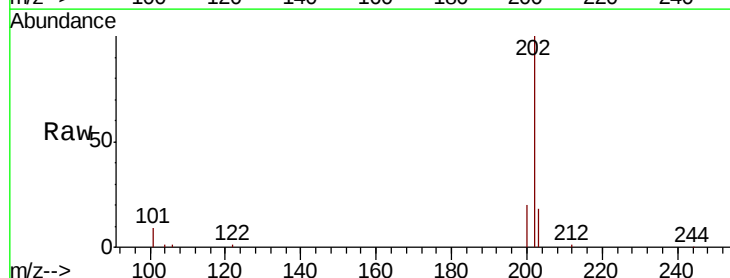
Tgt Ion:202 Resp: 38368

Ion Ratio Lower Upper

202 100

101 8.9 7.0 10.4

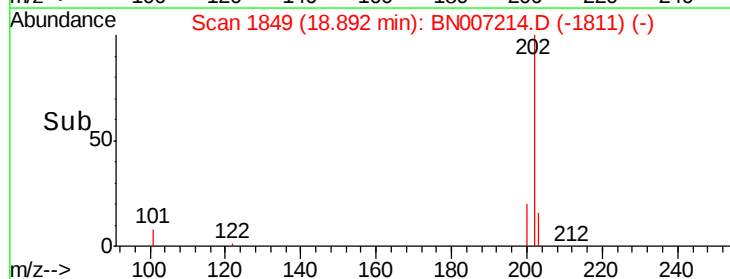
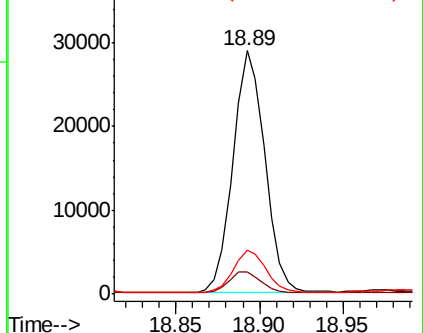
203 17.5 13.8 20.8

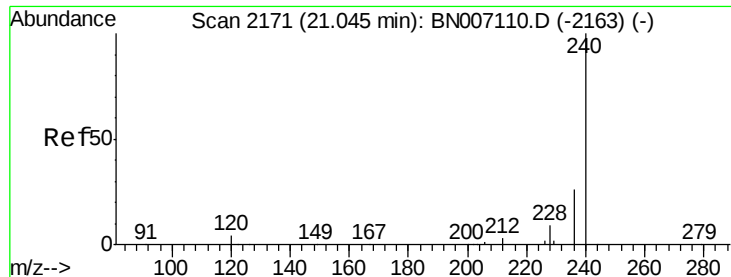


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

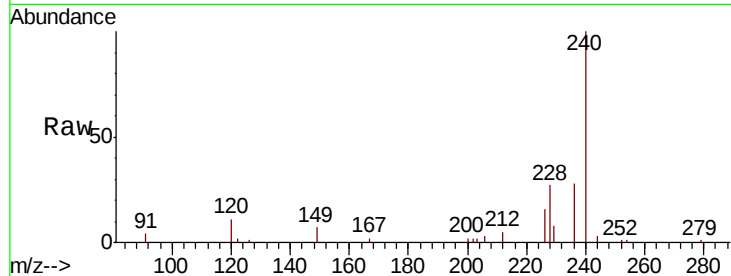




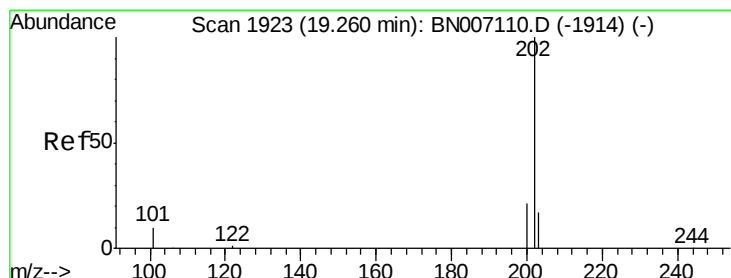
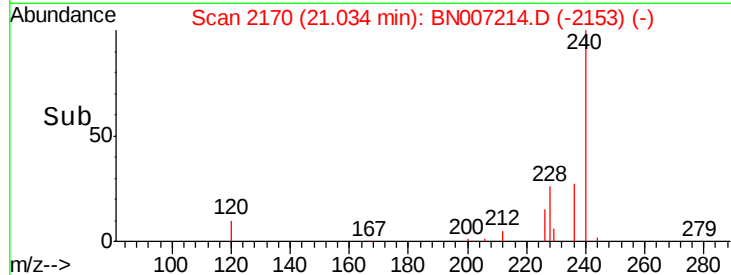
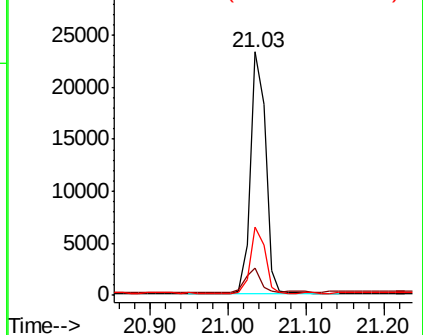
#26
Chrysene-d12
Concen: 0.400 ng
RT: 21.03 min Scan# 2170
Delta R.T. -0.02 min
Lab File: BN007214.D
Acq: 16 Aug 2019 01:46

Instrument :
BNA_N
ClientSampleId :

Tot Ion:240 Resp: 31348
Ion Ratio Lower Upper
240 100
120 11.0 4.0 6.0#
236 28.0 21.3 31.9

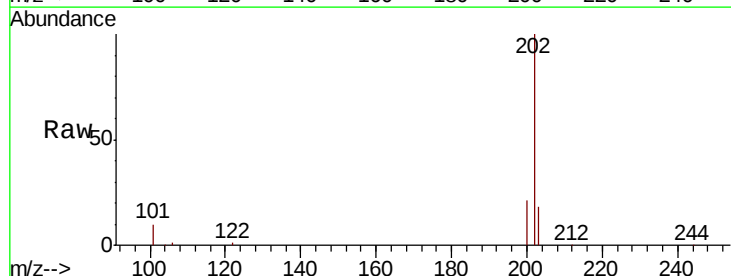


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

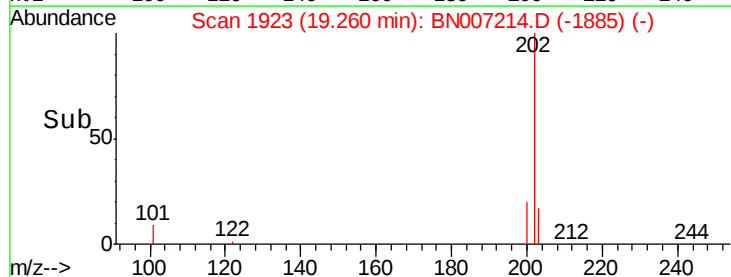
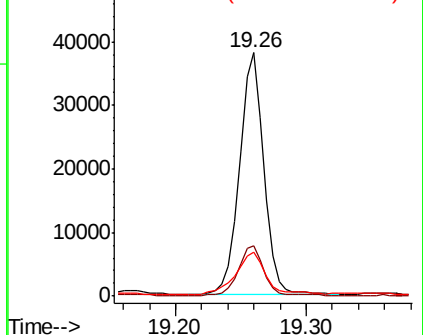


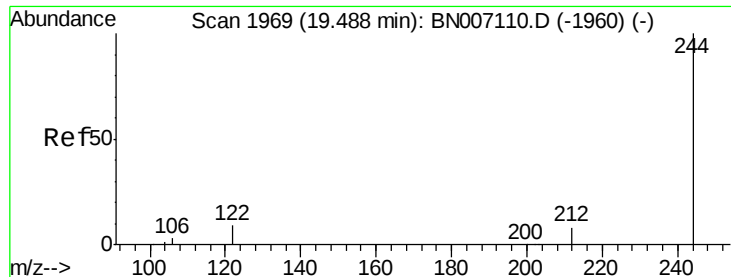
#27
Pyrene
Concen: 0.451 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007214.D
Acq: 16 Aug 2019 01:46

Tgt Ion:202 Resp: 49627
Ion Ratio Lower Upper
202 100
200 20.8 16.6 24.8
203 21.5 14.0 21.0#



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





#28

Terphenyl-d14

Concen: 0.110 ng

RT: 19.48 min Scan# 1968

Delta R.T. -0.02 min

Lab File: BN007214.D

Acq: 16 Aug 2019 01:46

Instrument :

BNA_N

ClientSampleId :

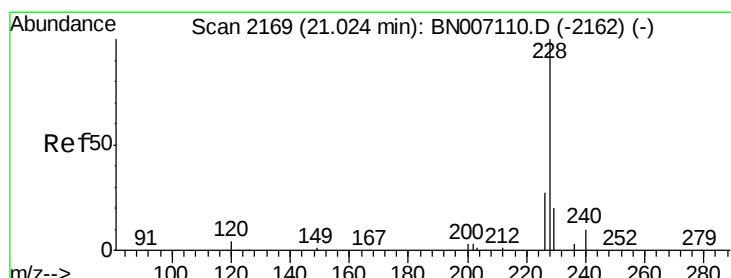
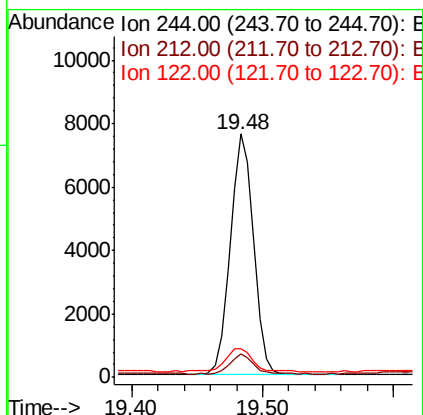
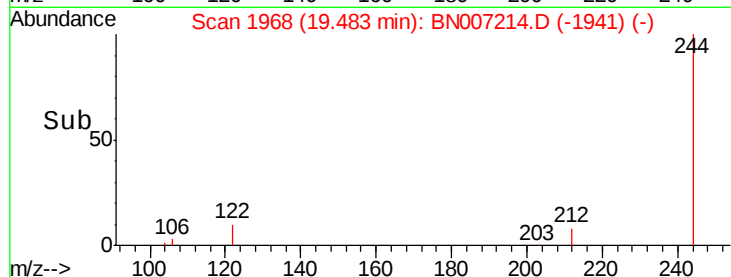
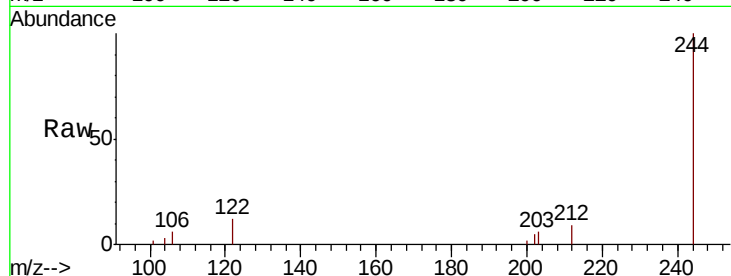
Tot Ion:244 Resp: 9418

Ion Ratio Lower Upper

244 100

212 9.4 6.2 9.2#

122 11.9 7.4 11.2#



#29

Benzo(a)anthracene

Concen: 0.221 ng

RT: 21.08 min Scan# 2174

Delta R.T. 0.04 min

Lab File: BN007214.D

Acq: 16 Aug 2019 01:46

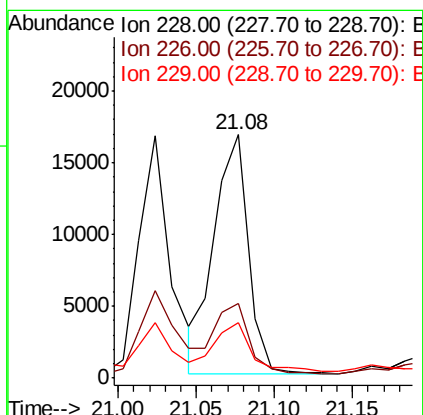
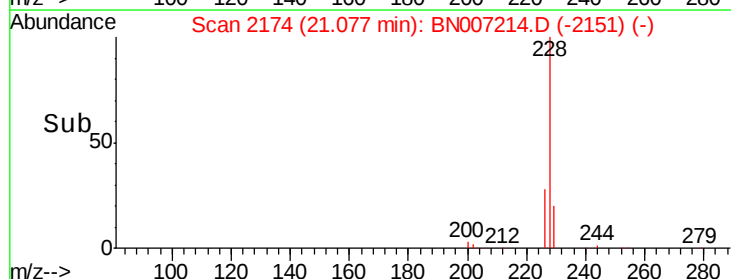
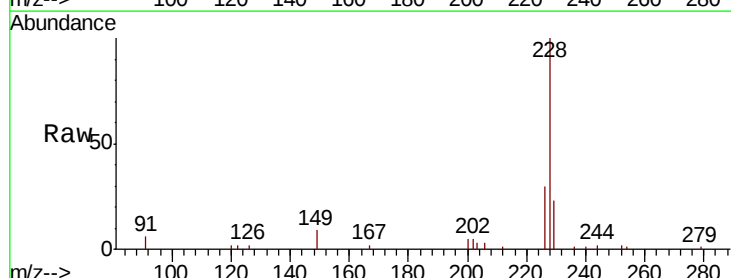
Tgt Ion:228 Resp: 25336

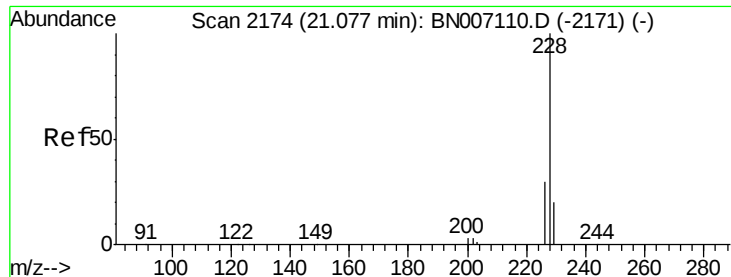
Ion Ratio Lower Upper

228 100

226 30.4 21.8 32.6

229 23.0 15.6 23.4





#30

Chrysene

Concen: 0.227 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007214.D

Acq: 16 Aug 2019 01:46

Instrument :

BNA_N

ClientSampleId :

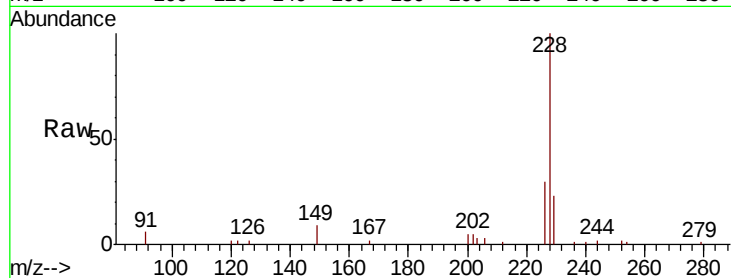
Tot Ion:228 Resp: 25261

Ion Ratio Lower Upper

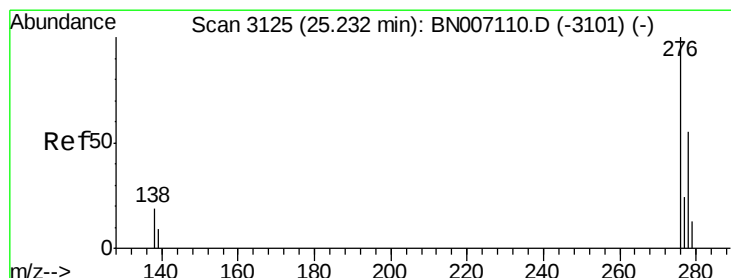
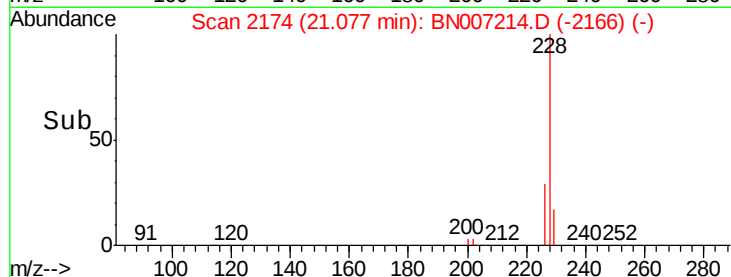
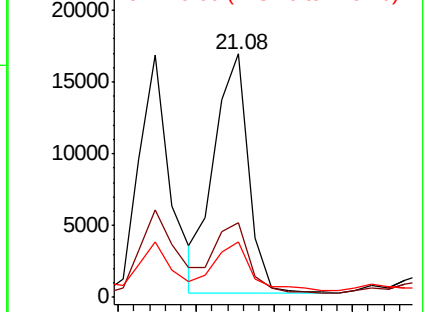
228 100

226 30.4 23.8 35.6

229 23.0 15.7 23.5



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#31

Indeno(1,2,3-cd)pyrene

Concen: 0.099 ng

RT: 25.22 min Scan# 3122

Delta R.T. -0.03 min

Lab File: BN007214.D

Acq: 16 Aug 2019 01:46

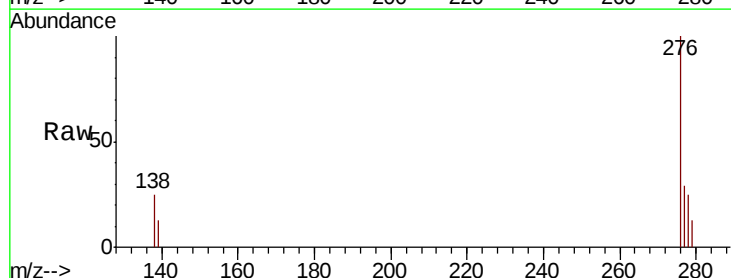
Tgt Ion:276 Resp: 12194

Ion Ratio Lower Upper

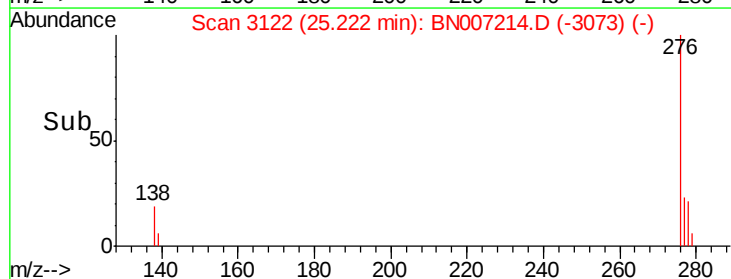
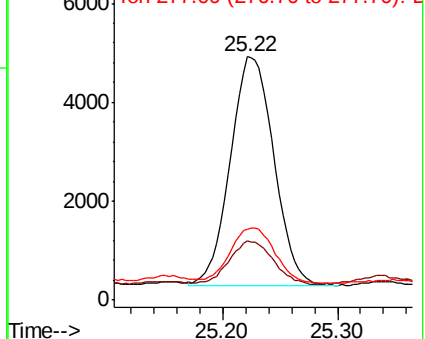
276 100

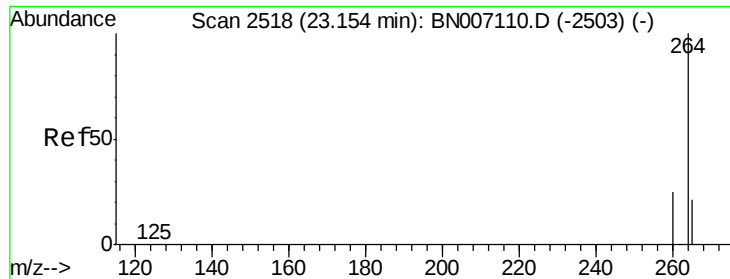
138 19.2 16.0 24.0

277 25.3 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

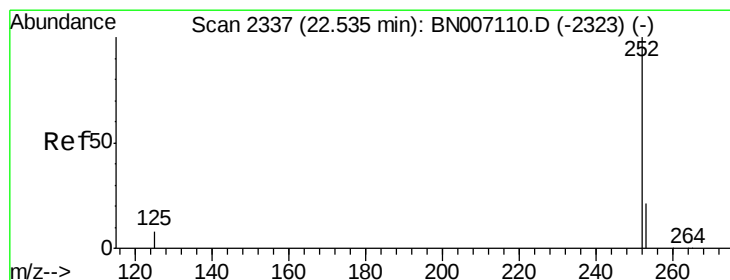
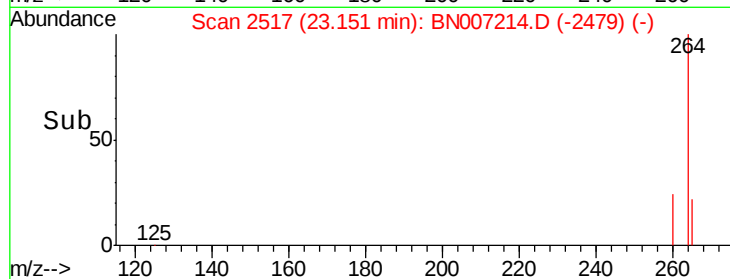
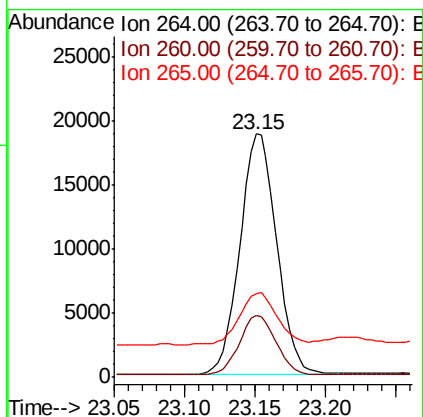
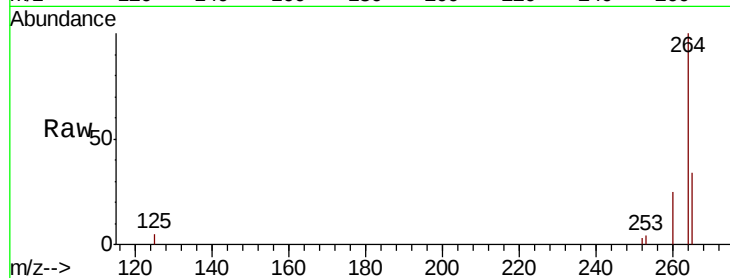




#32
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2517
 Delta R.T. -0.02 min
 Lab File: BN007214.D
 Acq: 16 Aug 2019 01:46

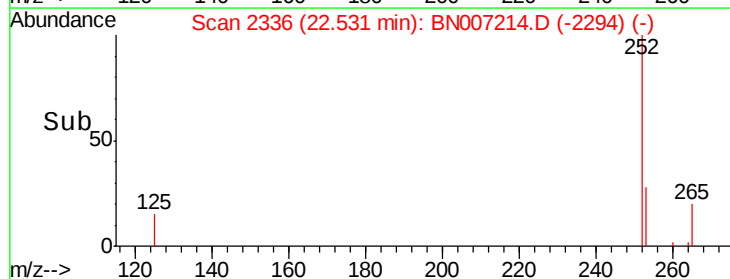
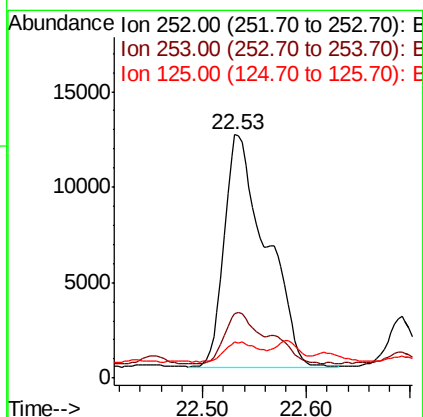
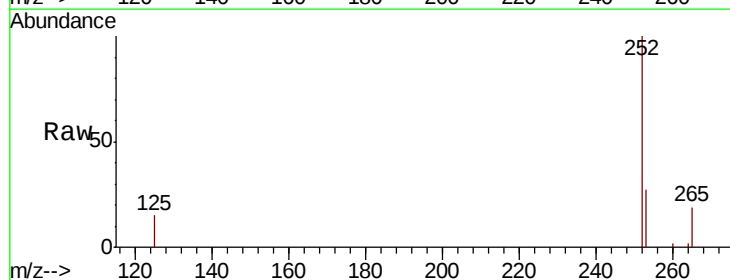
Instrument :
 BNA_N
 ClientSampleId :

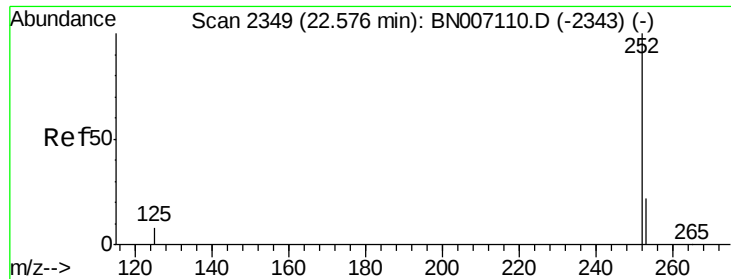
Tot Ion:264 Resp: 34094
 Ion Ratio Lower Upper
 264 100
 260 25.3 19.8 29.8
 265 34.5 26.2 39.4



#33
 Benzo(b)fluoranthene
 Concen: 0.291 ng
 RT: 22.53 min Scan# 2336
 Delta R.T. -0.02 min
 Lab File: BN007214.D
 Acq: 16 Aug 2019 01:46

Tgt Ion:252 Resp: 34058
 Ion Ratio Lower Upper
 252 100
 253 26.7 18.2 27.2
 125 14.6 7.4 11.0#

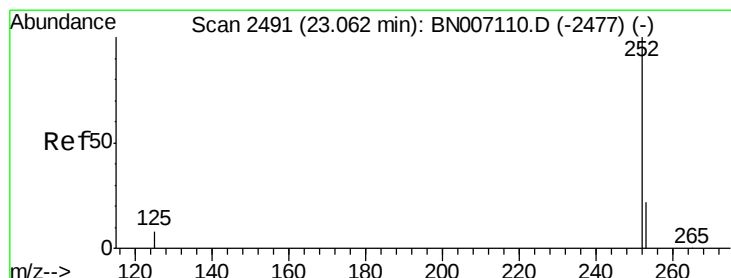
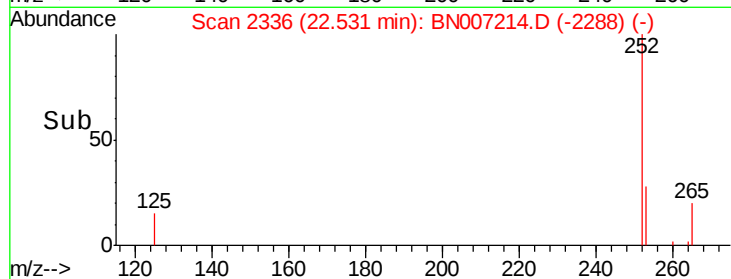
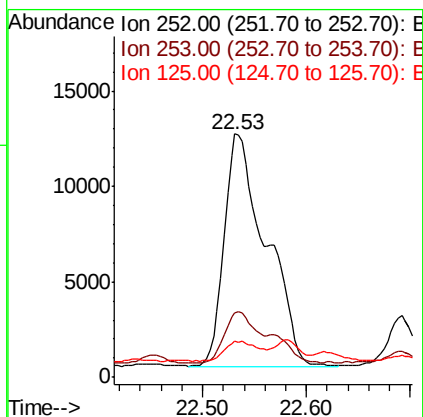
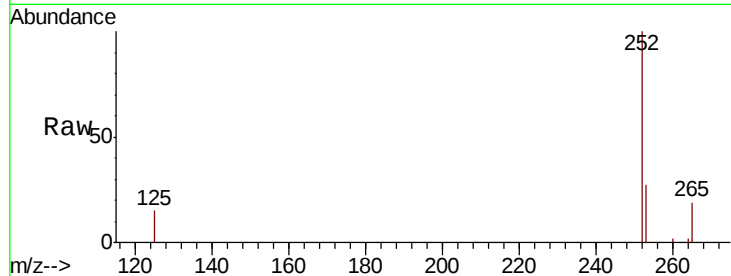




#34
Benzo(k)fluoranthene
Concen: 0.295 ng
RT: 22.53 min Scan# 2336
Delta R.T. -0.06 min
Lab File: BN007214.D
Acq: 16 Aug 2019 01:46

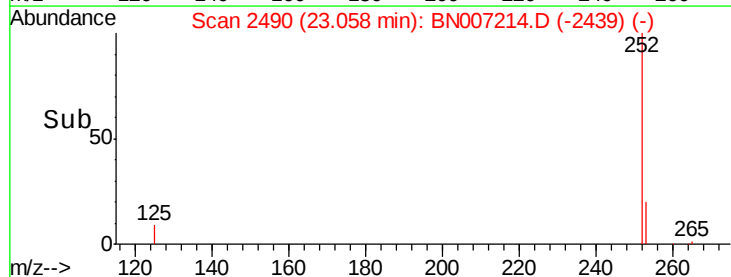
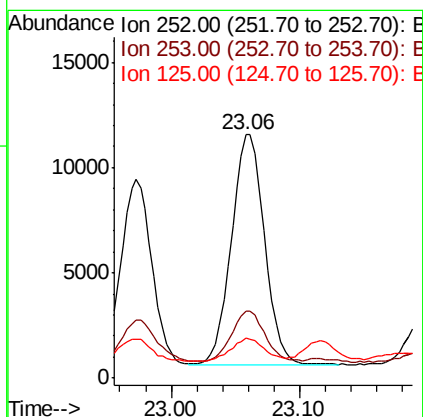
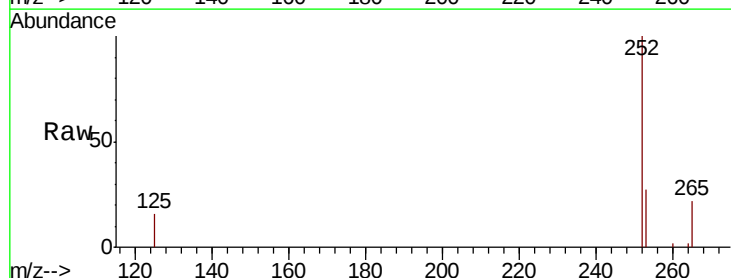
Instrument :
BNA_N
ClientSampleId :

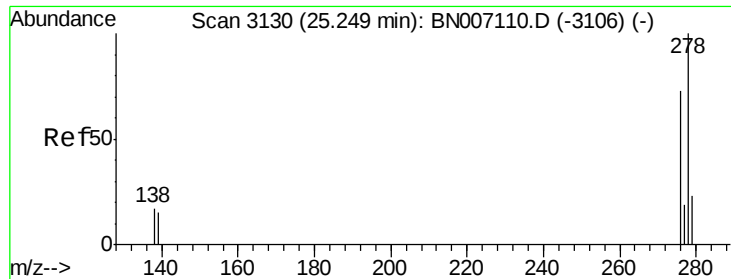
Tot Ion:252 Resp: 34058
Ion Ratio Lower Upper
252 100
253 26.7 18.1 27.1
125 14.6 7.4 11.0#



#35
Benzo(a)pyrene
Concen: 0.184 ng
RT: 23.06 min Scan# 2490
Delta R.T. -0.02 min
Lab File: BN007214.D
Acq: 16 Aug 2019 01:46

Tgt Ion:252 Resp: 19522
Ion Ratio Lower Upper
252 100
253 27.2 18.5 27.7
125 16.4 8.2 12.4#



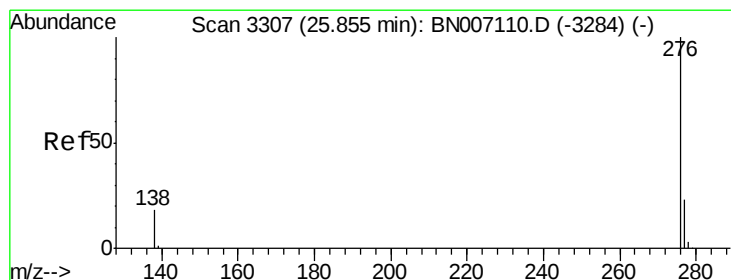
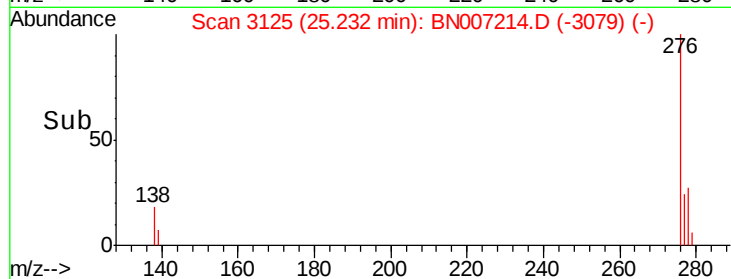
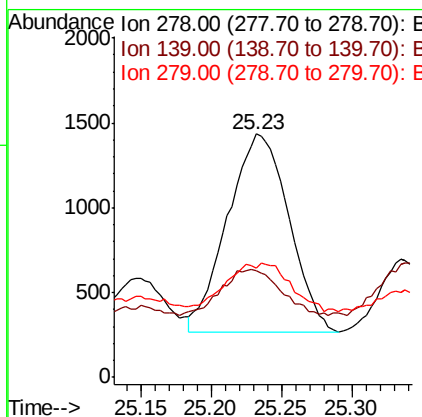
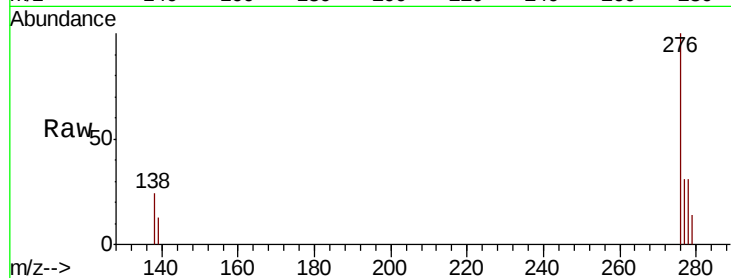


#36
Dibenzo(a,h)anthracene
Concen: 0.033 ng
RT: 25.23 min Scan# 3125
Delta R.T. -0.04 min
Lab File: BN007214.D
Acq: 16 Aug 2019 01:46

Instrument :
BNA_N
ClientSampleId :

Tot Ion:278 Resp: 3538

Ion	Ratio	Lower	Upper
278	100		
139	43.9	11.3	16.9#
279	45.1	19.3	28.9#



#37
Benzo(g,h,i)perylene
Concen: 0.123 ng
RT: 25.85 min Scan# 3307
Delta R.T. -0.02 min
Lab File: BN007214.D
Acq: 16 Aug 2019 01:46

Tgt Ion:276 Resp: 13420

Ion	Ratio	Lower	Upper
276	100		
277	29.9	19.8	29.8#
138	23.9	14.6	22.0#

