

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081019\
 Data File : BN007074.D
 Acq On : 11 Aug 2019 07:24
 Operator : HP/JU
 Sample : K4144-01
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 12 04:41:53 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Aug 10 21:44:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	9875	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	37756	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	21505	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	53416	0.40	ng	0.00
26) Chrysene-d12	21.05	240	55951	0.40	ng	-0.01
32) Perylene-d12	23.16	264	63432	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	4106	0.17	ng	0.00
4) Phenol-d6	6.61	99	5788	0.20	ng	0.00
7) Nitrobenzene-d5	8.56	82	4818	0.16	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	11910	0.17	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1860	0.16	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	4062	0.13	ng	0.00
24) Fluoranthene-d10	18.87	212	31781	0.17	ng	0.00
28) Terphenyl-d14	19.49	244	24506	0.16	ng	0.00

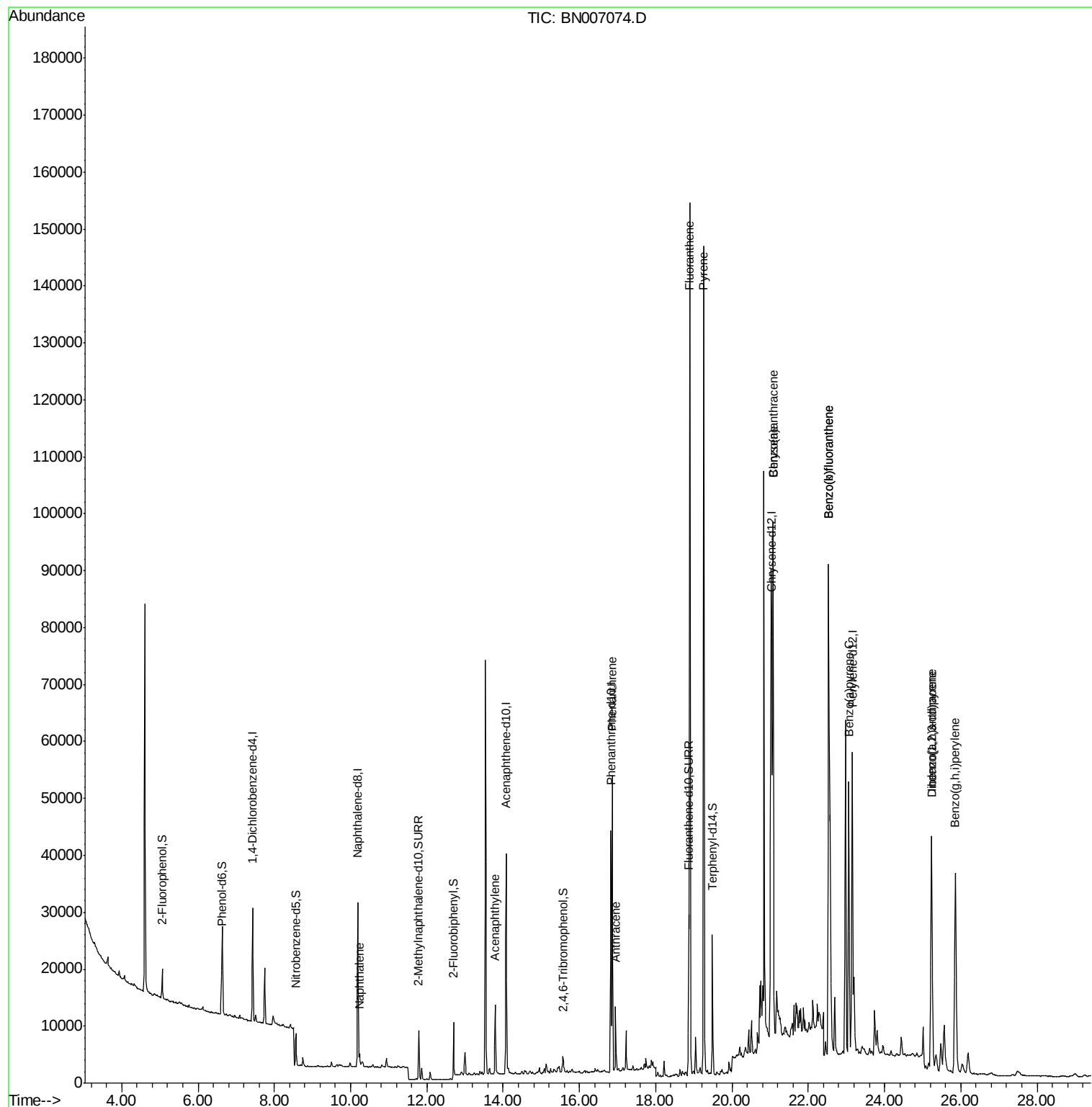
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.24	128	2849	0.027	ng	# 92
15) Acenaphthylene	13.79	152	15120	0.135	ng	99
22) Phenanthrene	16.87	178	51459	0.321	ng	100
23) Anthracene	16.95	178	13209	0.090	ng	98
25) Fluoranthene	18.90	202	139859	0.683	ng	100
27) Pyrene	19.26	202	133157	0.679	ng	98
29) Benzo(a)anthracene	21.08	228	86044	0.421	ng	95
30) Chrysene	21.08	228	85739	0.431	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	69707	0.318	ng	97
33) Benzo(b)fluoranthene	22.53	252	143981	0.662	ng	100
34) Benzo(k)fluoranthene	22.53	252	143981	0.670	ng	100
35) Benzo(a)pyrene	23.07	252	65720	0.333	ng	100
36) Dibenzo(a,h)anthracene	25.24	278	14947	0.076	ng	# 84
37) Benzo(g,h,i)perylene	25.86	276	73141	0.361	ng	99

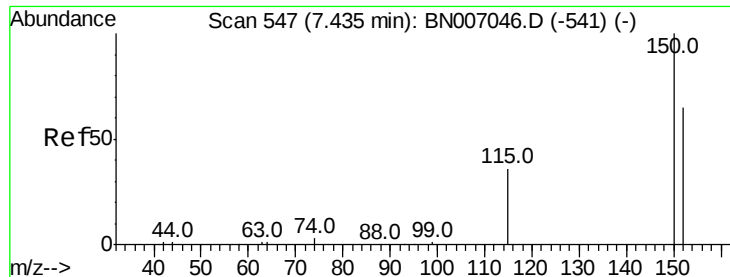
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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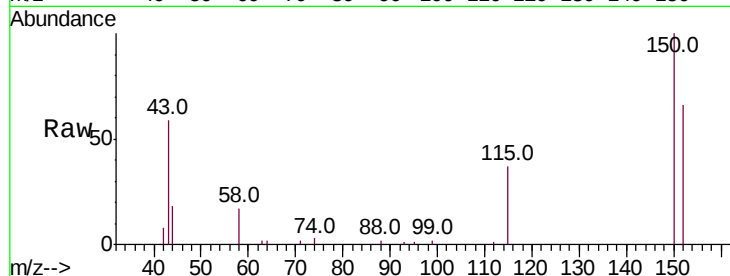


#1

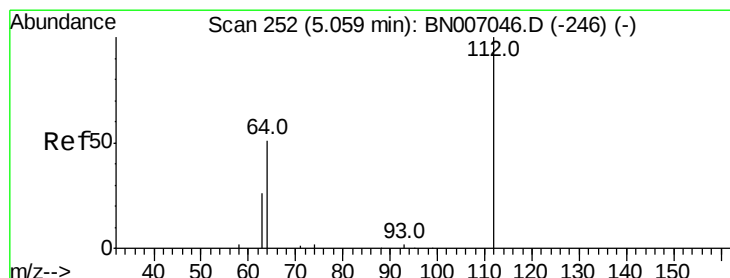
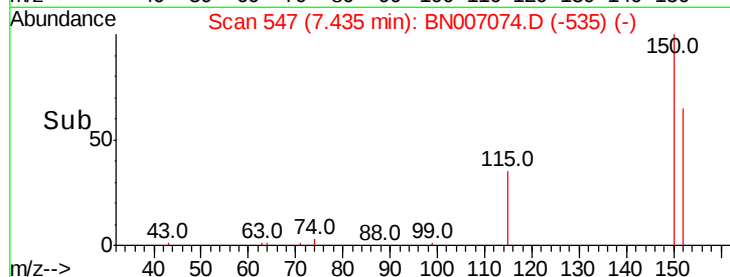
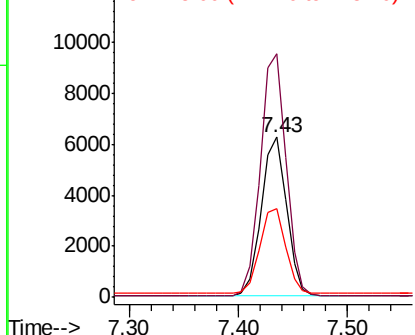
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007074.D
Acq: 11 Aug 2019 07:24

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 9875
Ion Ratio Lower Upper
152 100
150 152.0 121.7 182.5
115 55.5 46.2 69.4



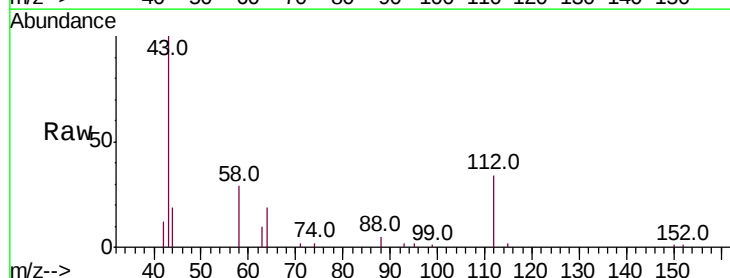
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



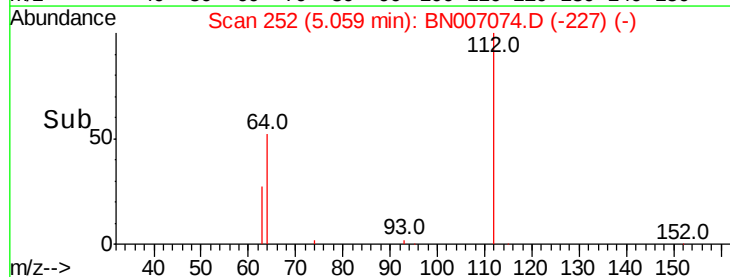
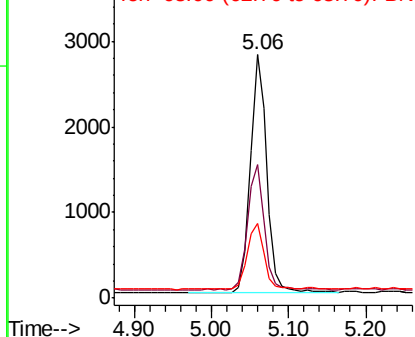
#3

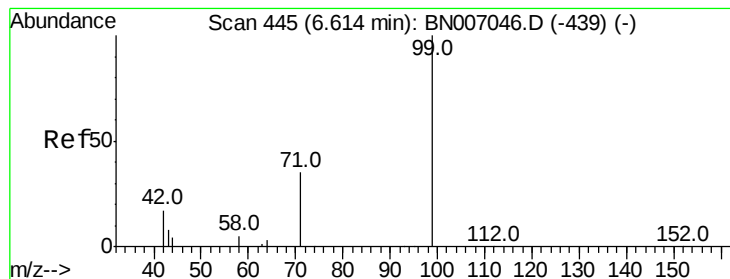
2-Fluorophenol
Concen: 0.173 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007074.D
Acq: 11 Aug 2019 07:24

Tgt Ion:112 Resp: 4106
Ion Ratio Lower Upper
112 100
64 52.4 42.6 63.8
63 27.8 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: 0.197 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

Instrument :

BNA_N

ClientSampleId :

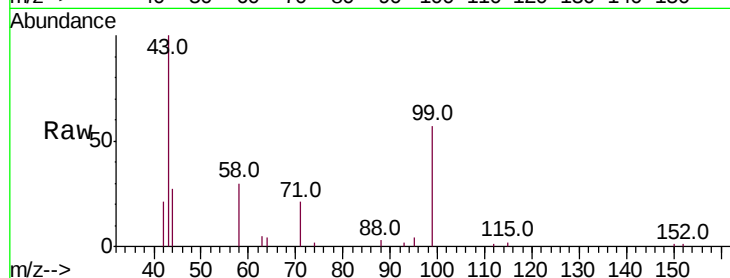
Tot Ion: 99 Resp: 5788

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

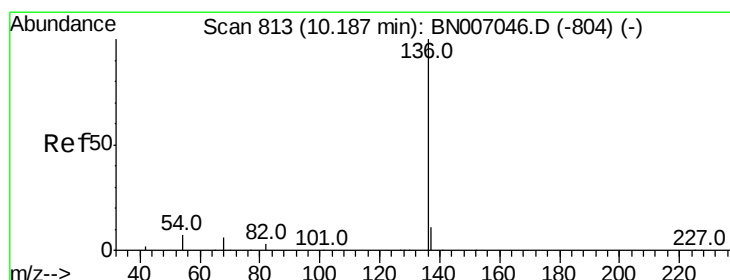
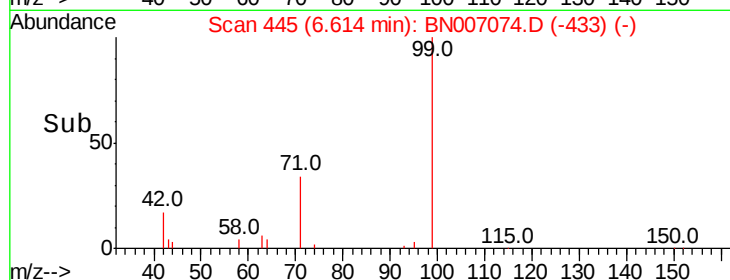
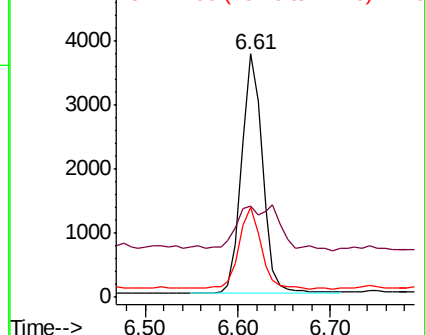
71 35.9 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007046.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007046.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007046.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. 0.00 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

Tgt Ion: 136 Resp: 37756

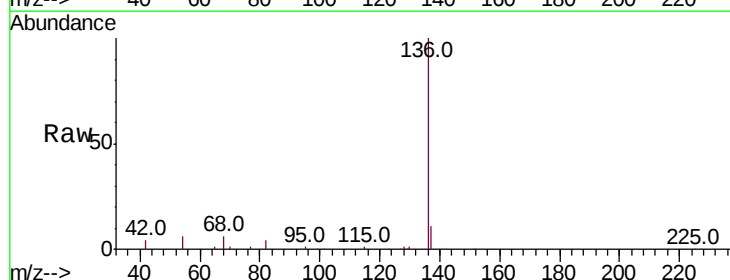
Ion Ratio Lower Upper

136 100

137 11.0 9.4 14.0

54 6.5 6.6 9.8#

68 5.6 6.0 9.0#

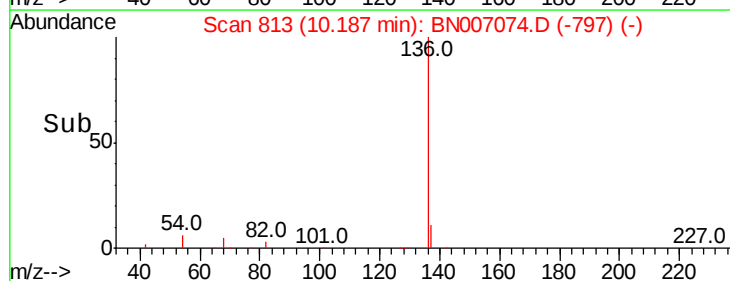
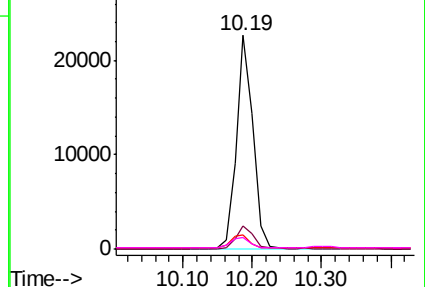


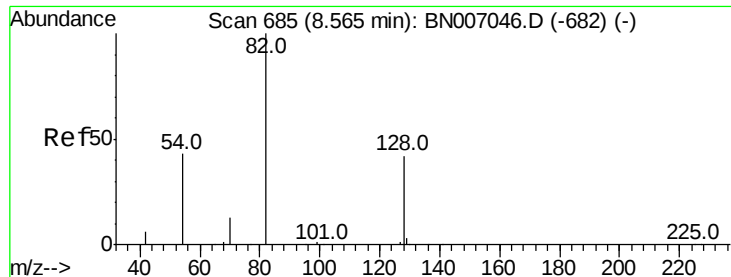
Abundance Ion 136.00 (135.70 to 136.70): BN007046.D (-804) (-)

Ion 137.00 (136.70 to 137.70): BN007046.D (-804) (-)

Ion 54.00 (53.70 to 54.70): BN007046.D (-804) (-)

Ion 68.00 (67.70 to 68.70): BN007046.D (-804) (-)





#7

Nitrobenzene-d5

Concen: 0.158 ng

RT: 8.56 min Scan# 685

Delta R.T. 0.00 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

Instrument :

BNA_N

ClientSampleId :

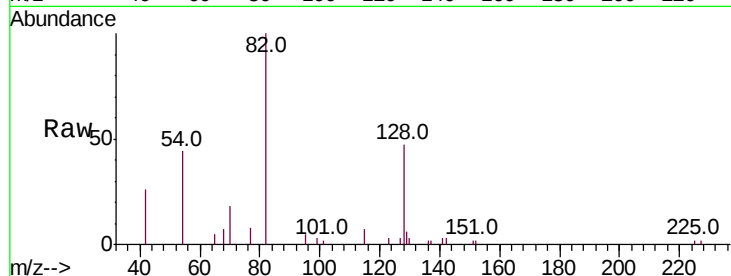
Tot Ion: 82 Resp: 4818

Ion Ratio Lower Upper

82 100

128 46.7 34.6 51.8

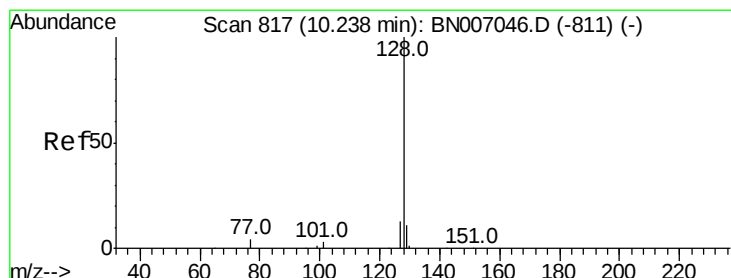
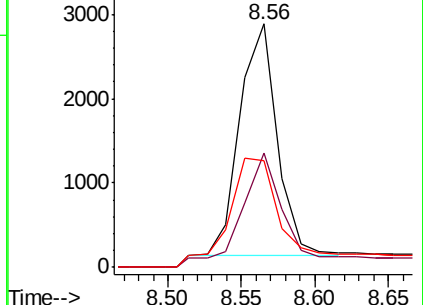
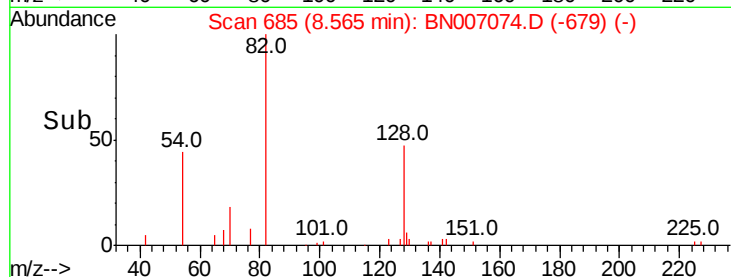
54 43.6 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007074.D (-682) (-)

Ion 128.00 (127.70 to 128.70): BN007074.D (-682) (-)

Ion 54.00 (53.70 to 54.70): BN007074.D (-682) (-)



#8

Naphthalene

Concen: 0.027 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

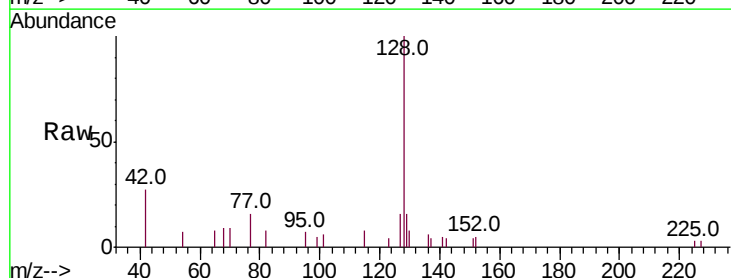
Tgt Ion:128 Resp: 2849

Ion Ratio Lower Upper

128 100

129 15.7 9.4 14.2#

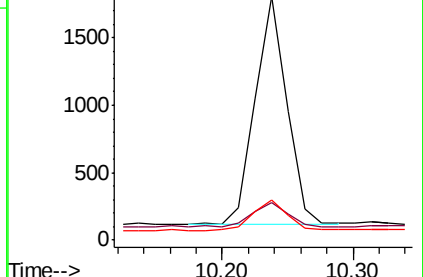
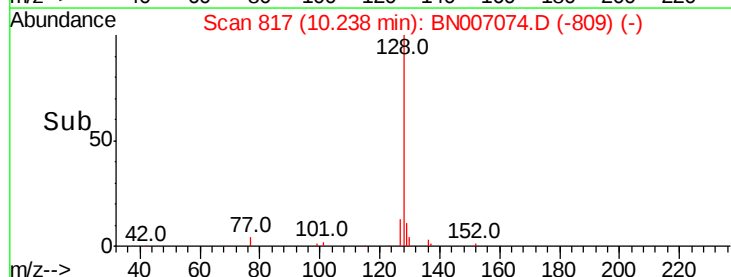
127 16.2 11.0 16.6

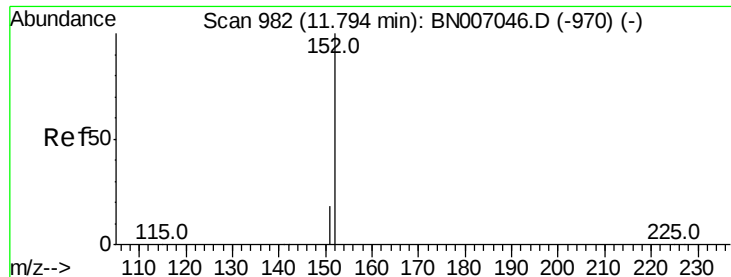


Abundance Ion 128.00 (127.70 to 128.70): BN007074.D (-811) (-)

Ion 129.00 (128.70 to 129.70): BN007074.D (-811) (-)

Ion 127.00 (126.70 to 127.70): BN007074.D (-811) (-)

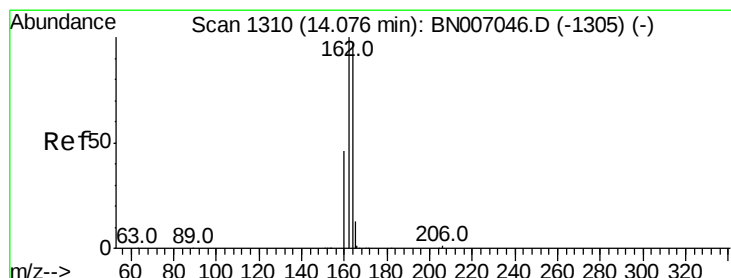
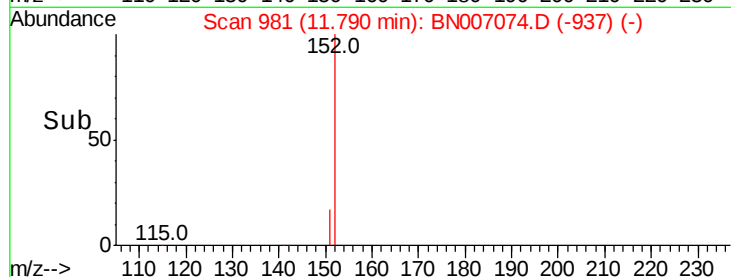
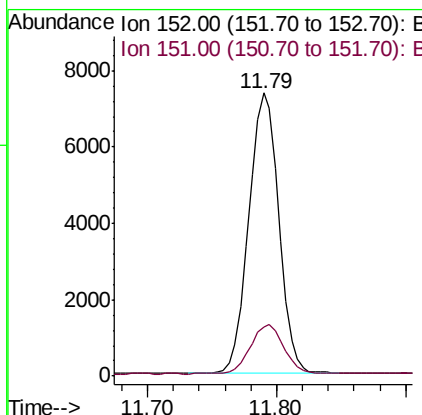
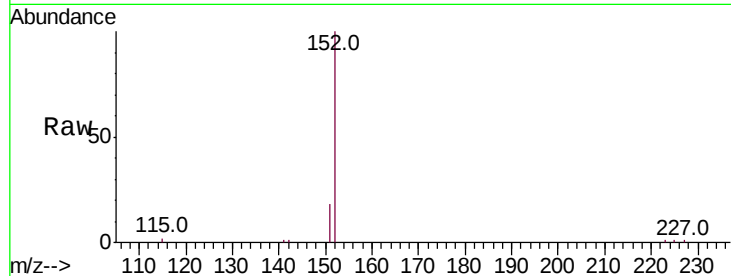




#10
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.79 min Scan# 981
Delta R.T. -0.00 min
Lab File: BN007074.D
Acq: 11 Aug 2019 07:24

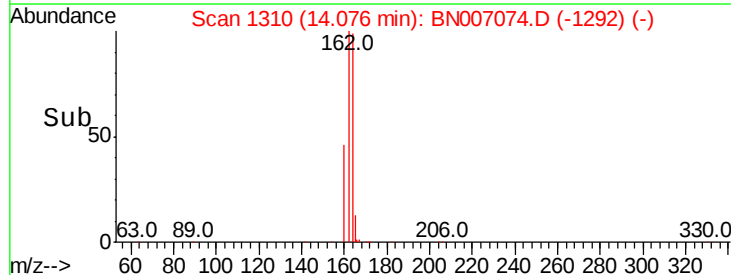
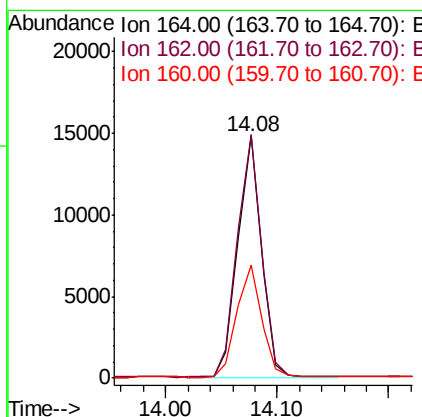
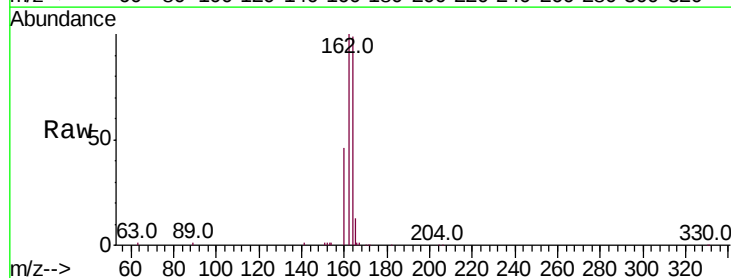
Instrument :
BNA_N
ClientSampleId :

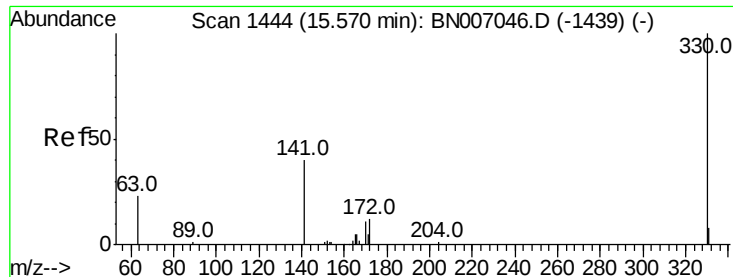
Tot Ion:152 Resp: 11910
Ion Ratio Lower Upper
152 100
151 19.2 15.5 23.3



#12
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.08 min Scan# 1310
Delta R.T. -0.00 min
Lab File: BN007074.D
Acq: 11 Aug 2019 07:24

Tgt Ion:164 Resp: 21505
Ion Ratio Lower Upper
164 100
162 100.6 82.2 123.4
160 46.6 38.3 57.5

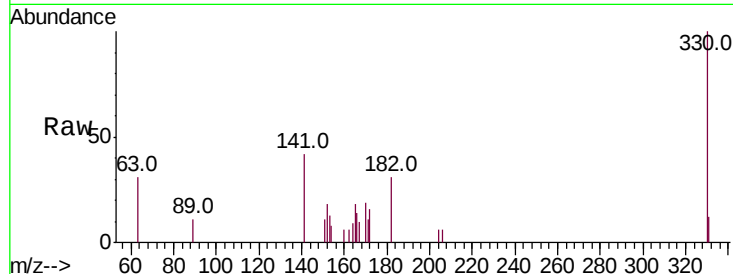




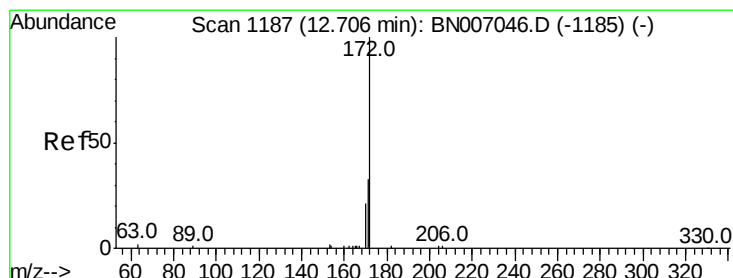
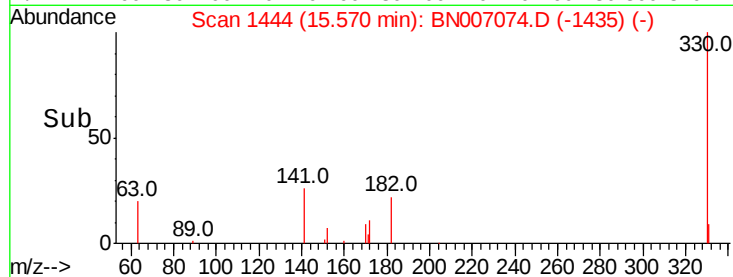
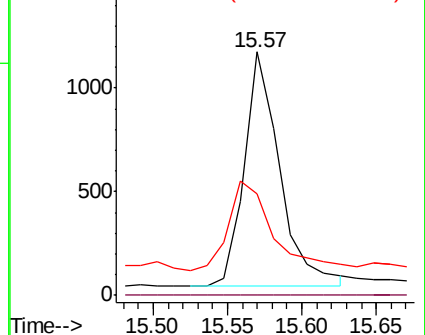
#13
 2,4,6-Tribromophenol
 Concen: 0.161 ng
 RT: 15.57 min Scan# 1444
 Delta R.T. 0.00 min
 Lab File: BN007074.D
 Acq: 11 Aug 2019 07:24

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:330 Resp: 1860
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 46.9 33.6 50.4

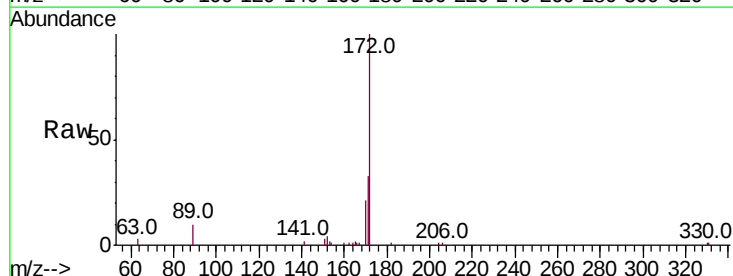


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

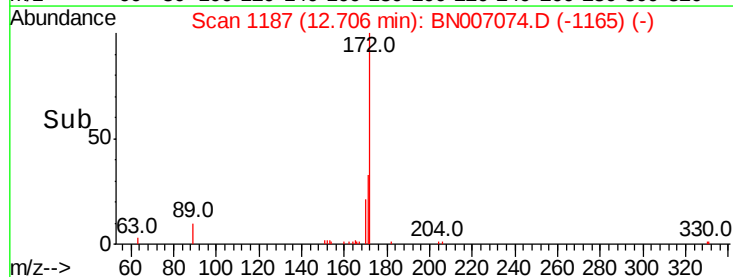
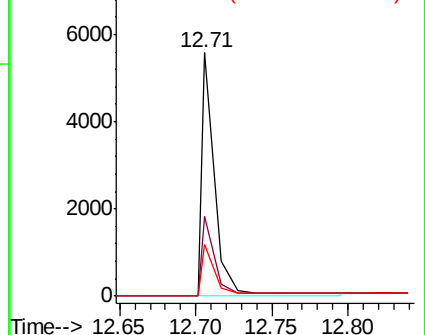


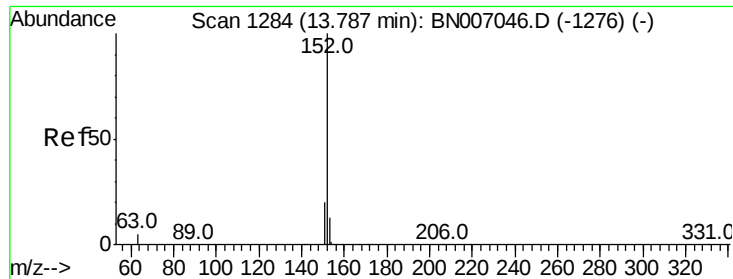
#14
 2-Fluorobiphenyl
 Concen: 0.130 ng
 RT: 12.71 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: BN007074.D
 Acq: 11 Aug 2019 07:24

Tgt Ion:172 Resp: 4062
 Ion Ratio Lower Upper
 172 100
 171 33.0 26.3 39.5
 170 21.1 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: 0.135 ng

RT: 13.79 min Scan# 1284

Delta R.T. 0.00 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

Instrument :

BNA_N

ClientSampleId :

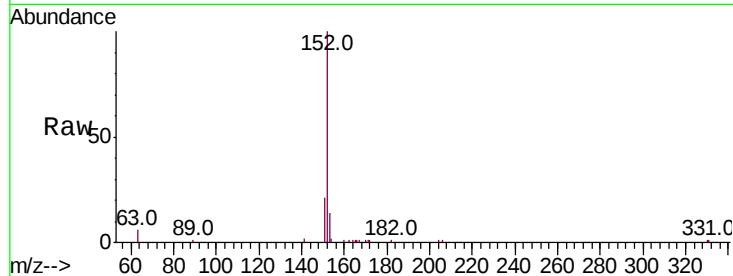
Tot Ion:152 Resp: 15120

Ion Ratio Lower Upper

152 100

151 20.6 15.8 23.6

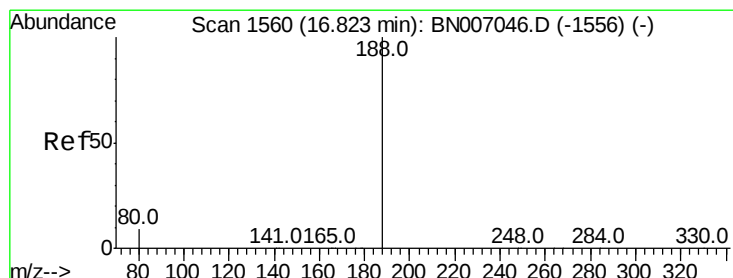
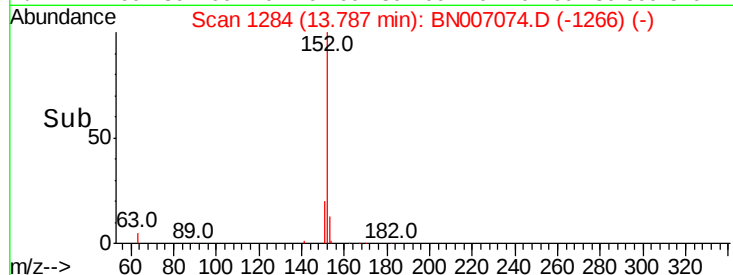
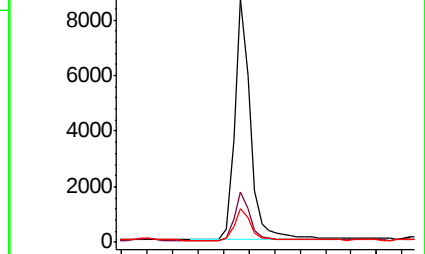
153 13.4 10.4 15.6



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



#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

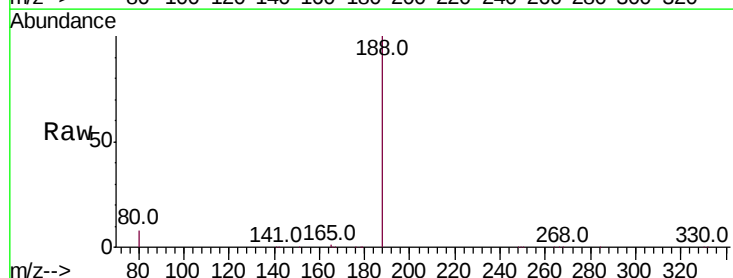
Tgt Ion:188 Resp: 53416

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

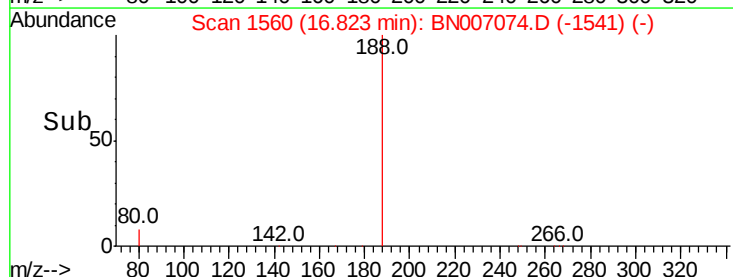
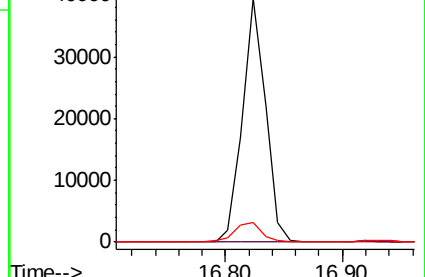
80 7.9 7.8 11.6

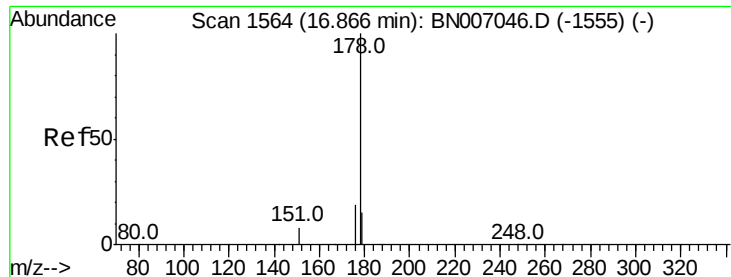


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC





#22

Phenanthrene

Concen: 0.321 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

Instrument :

BNA_N

ClientSampleId :

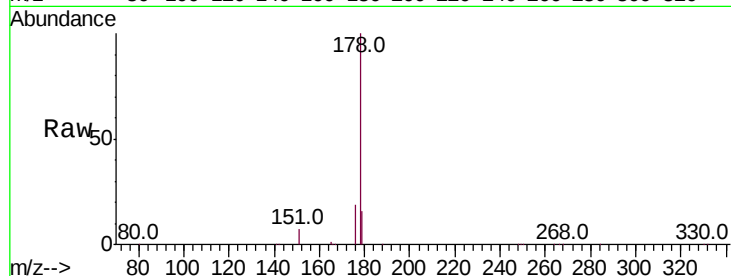
Tot Ion:178 Resp: 51459

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

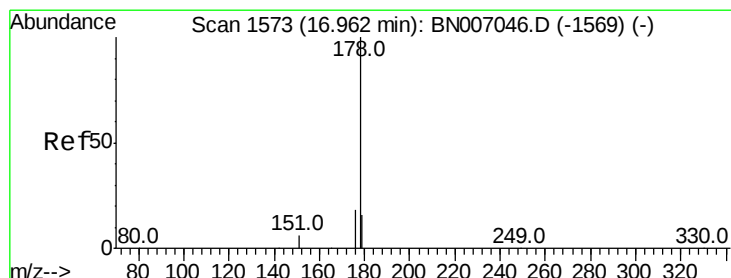
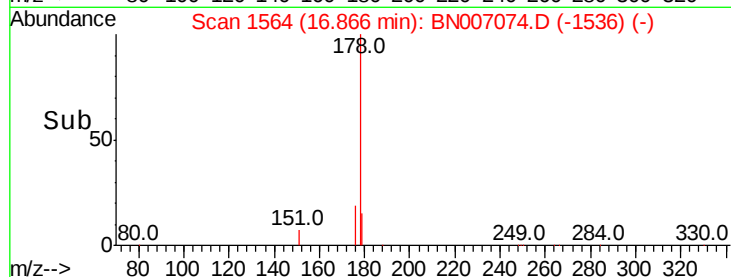
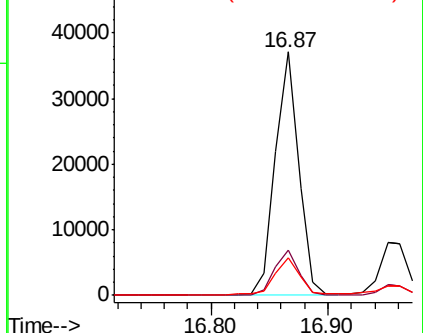
179 15.7 12.3 18.5



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: 0.090 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

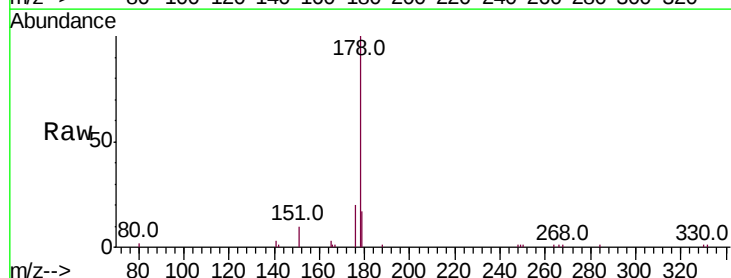
Tgt Ion:178 Resp: 13209

Ion Ratio Lower Upper

178 100

176 18.7 14.6 21.8

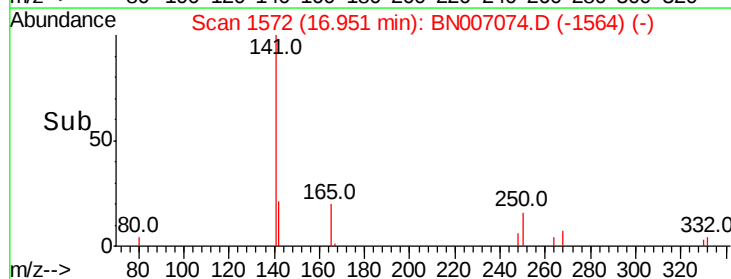
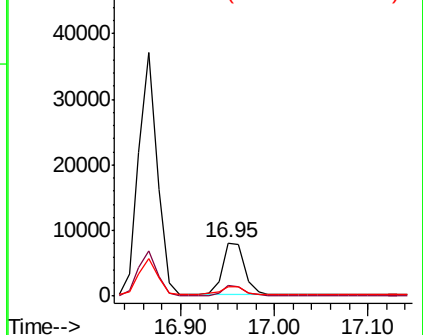
179 16.5 12.5 18.7

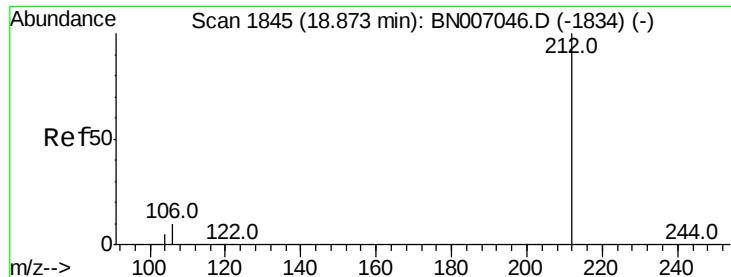


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Fluoranthene-d10

Concen: 0.168 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.00 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

Instrument :

BNA_N

ClientSampleId :

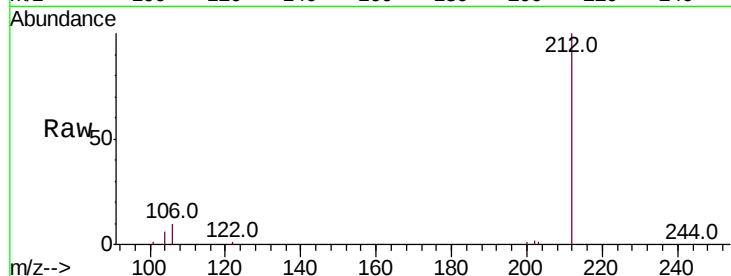
Tot Ion:212 Resp: 31781

Ion Ratio Lower Upper

212 100

106 10.2 8.2 12.2

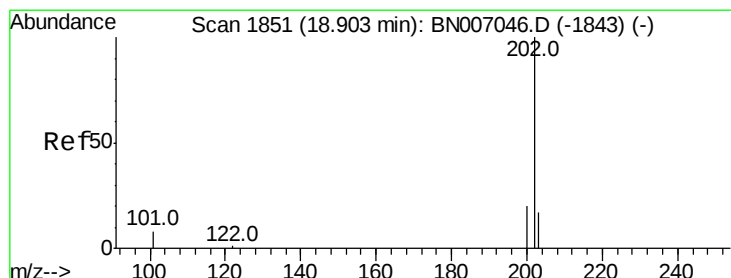
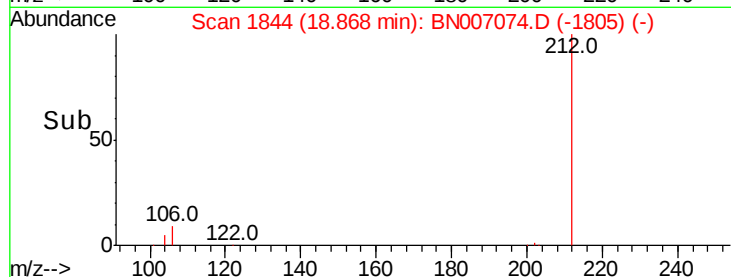
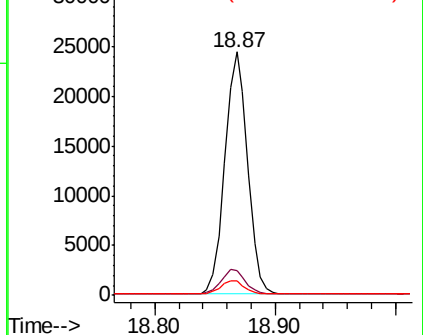
104 5.7 4.5 6.7



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: 0.683 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.00 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

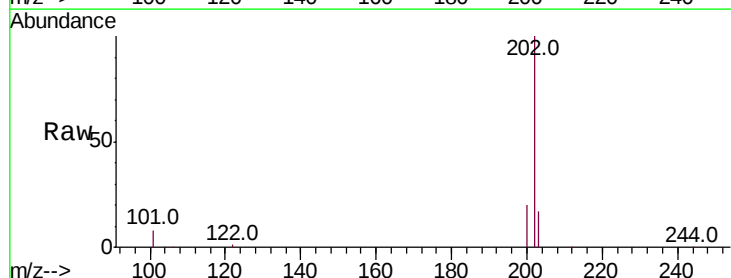
Tgt Ion:202 Resp: 139859

Ion Ratio Lower Upper

202 100

101 8.5 7.0 10.4

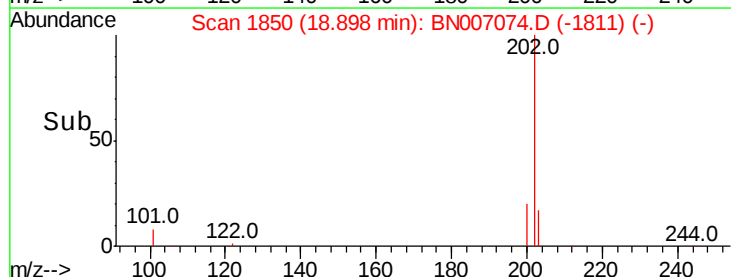
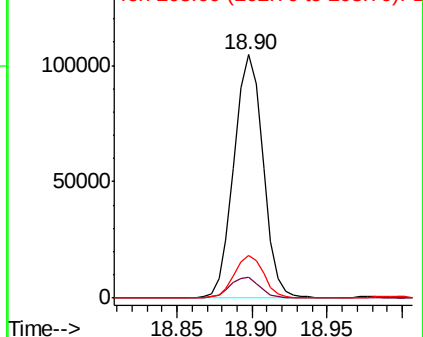
203 17.3 13.8 20.8

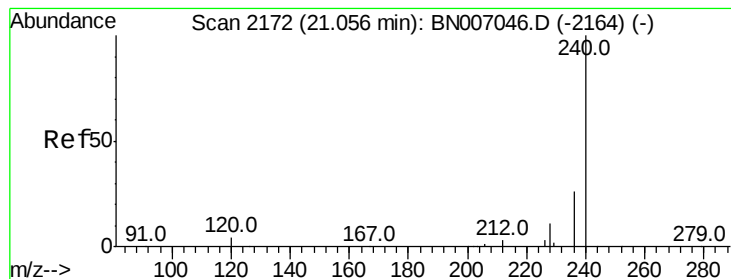


Abundance Ion 202.00 (201.70 to 202.70): E

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: BN007074.D

Acq: 11 Aug 2019 07:24

Instrument :

BNA_N

ClientSampleId :

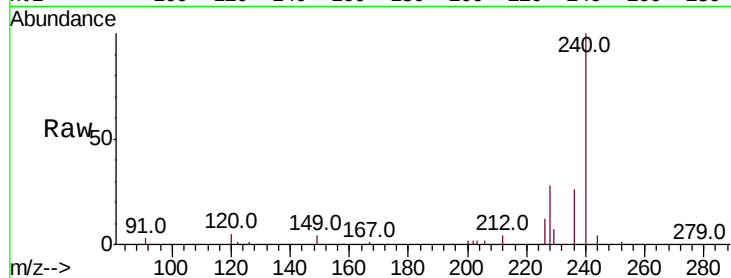
Tot Ion:240 Resp: 55951

Ion Ratio Lower Upper

240 100

120 5.1 4.0 6.0

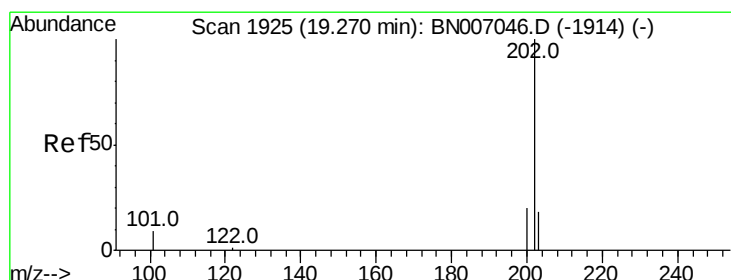
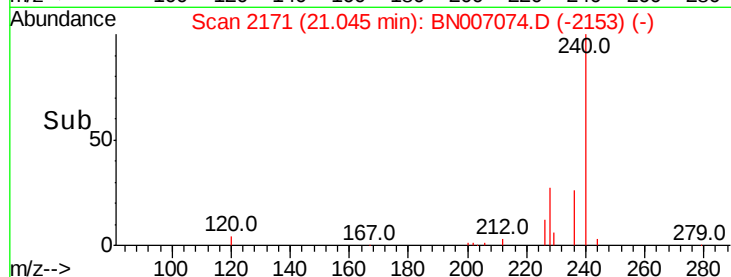
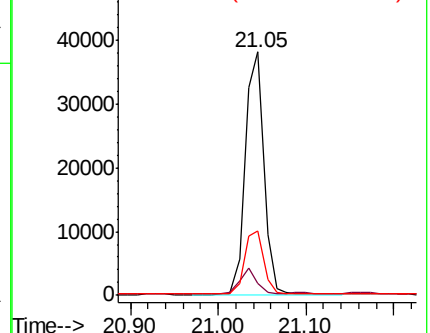
236 26.4 21.3 31.9



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

Pyrene

Concen: 0.679 ng

RT: 19.26 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

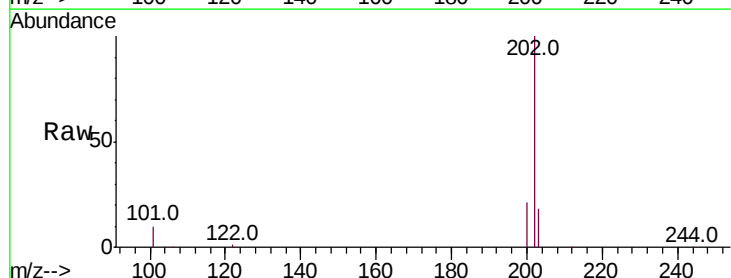
Tgt Ion:202 Resp: 133157

Ion Ratio Lower Upper

202 100

200 20.6 16.6 24.8

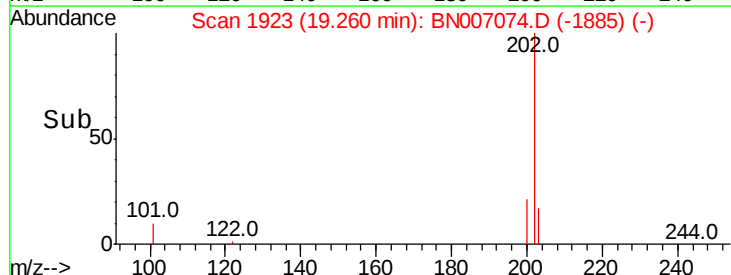
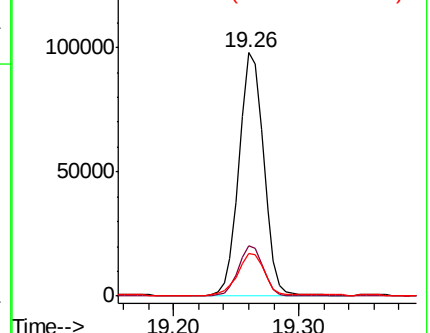
203 19.2 14.0 21.0

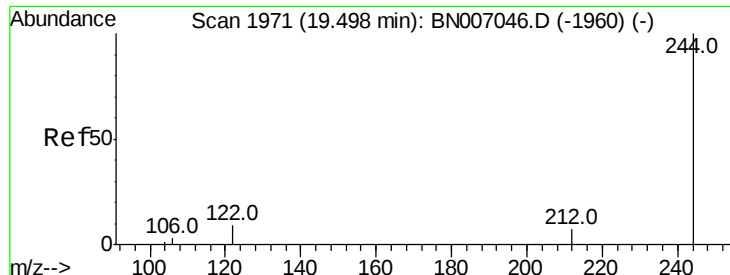


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#28

Terphenyl-d14

Concen: 0.161 ng

RT: 19.49 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

Instrument :

BNA_N

ClientSampleId :

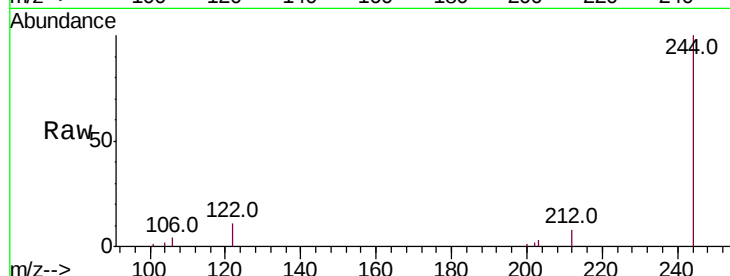
Tot Ion:244 Resp: 24506

Ion Ratio Lower Upper

244 100

212 8.1 6.2 9.2

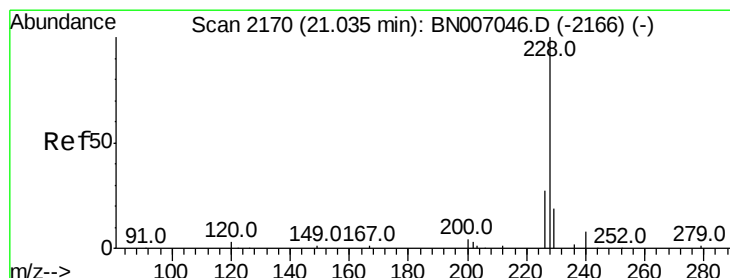
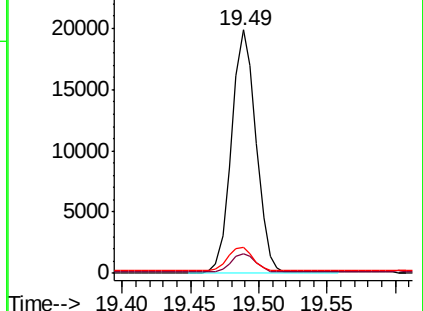
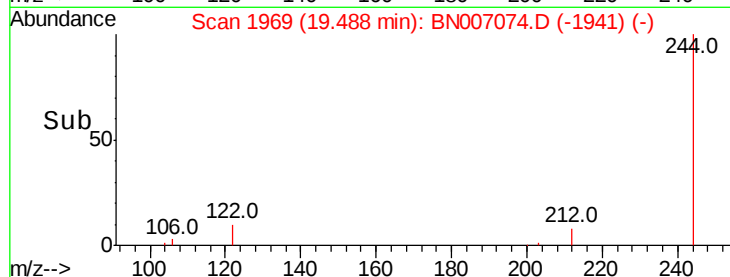
122 10.6 7.4 11.2



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#29

Benzo(a)anthracene

Concen: 0.421 ng

RT: 21.08 min Scan# 2174

Delta R.T. 0.04 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

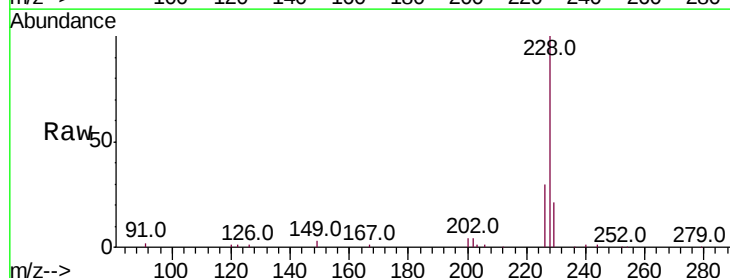
Tgt Ion:228 Resp: 86044

Ion Ratio Lower Upper

228 100

226 29.9 21.8 32.6

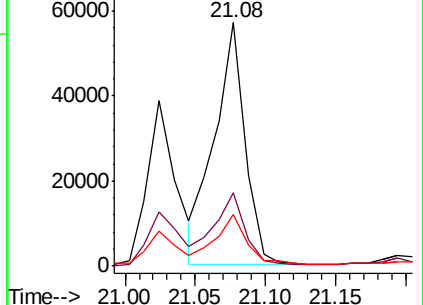
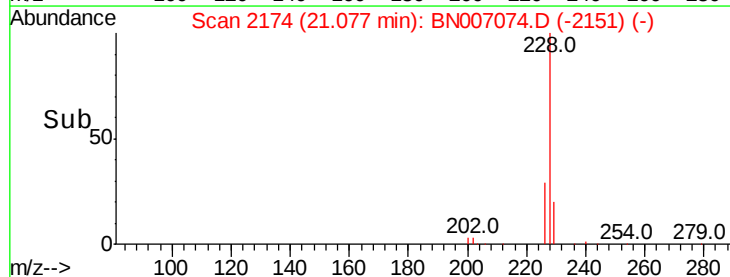
229 21.3 15.6 23.4

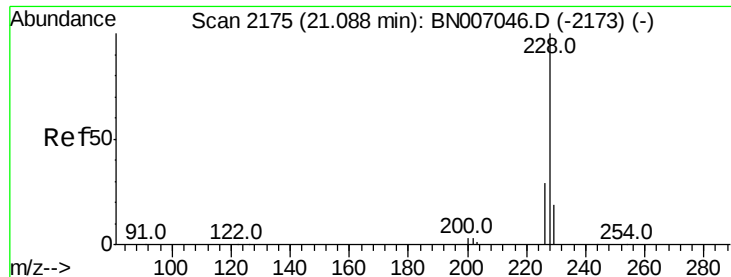


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#30

Chrysene

Concen: 0.431 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

Instrument :

BNA_N

ClientSampleId :

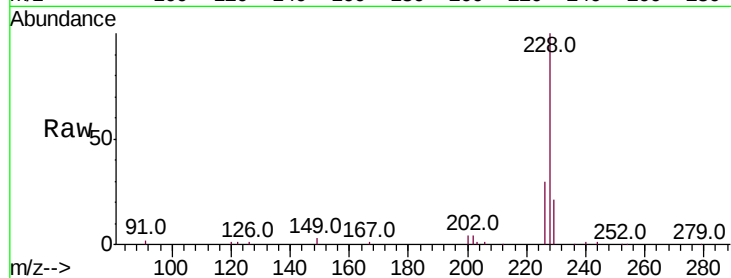
Tot Ion:228 Resp: 85739

Ion Ratio Lower Upper

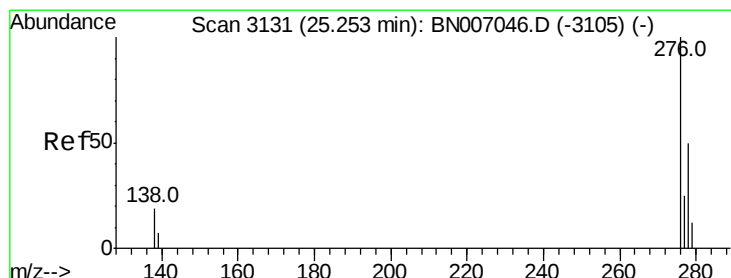
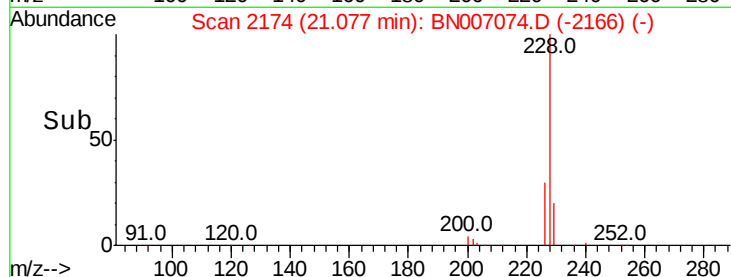
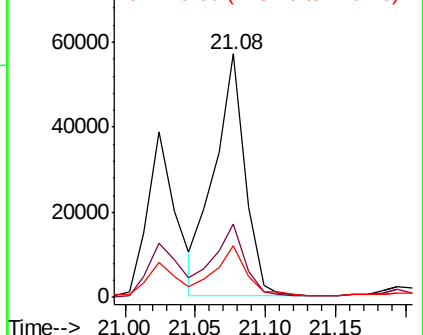
228 100

226 29.9 23.8 35.6

229 21.3 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: 0.318 ng

RT: 25.23 min Scan# 3125

Delta R.T. -0.02 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

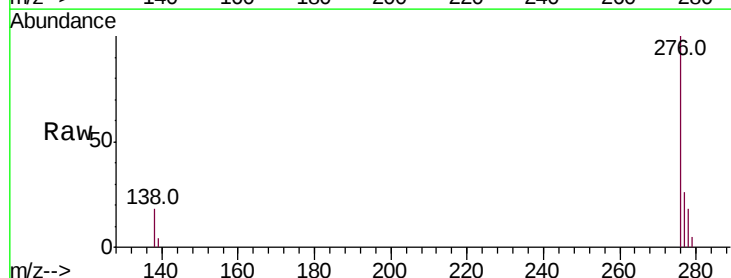
Tgt Ion:276 Resp: 69707

Ion Ratio Lower Upper

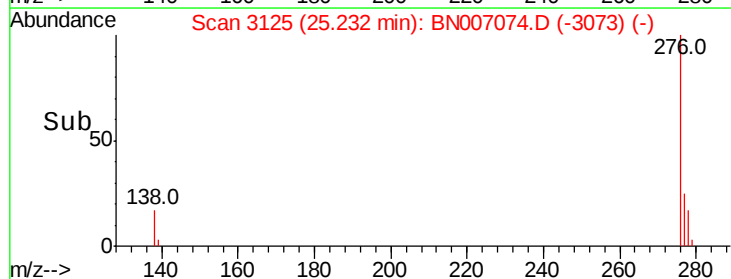
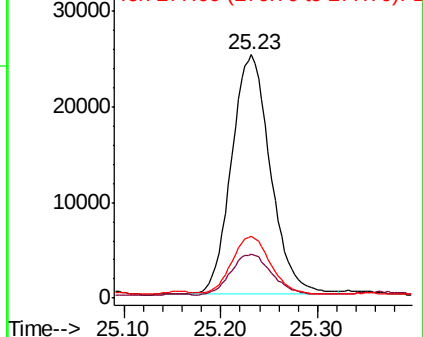
276 100

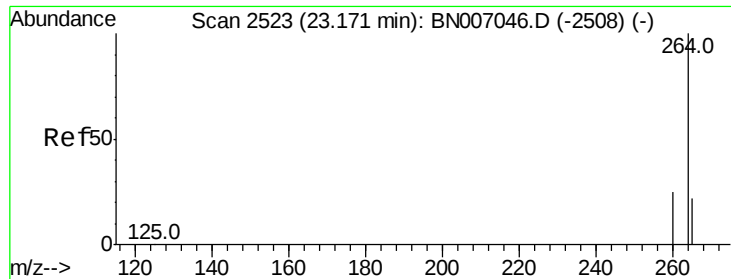
138 18.0 16.0 24.0

277 24.2 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

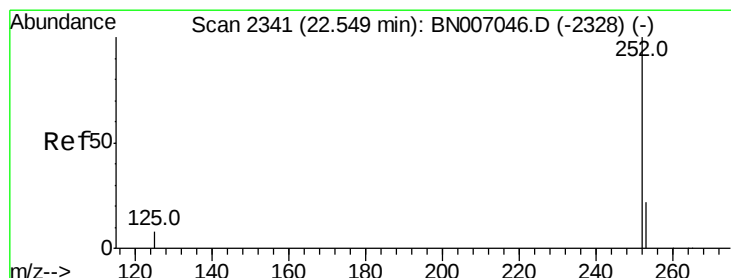
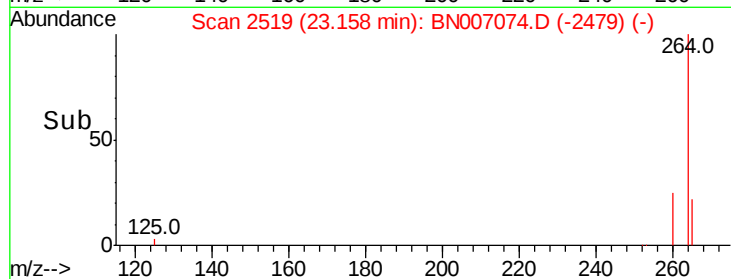
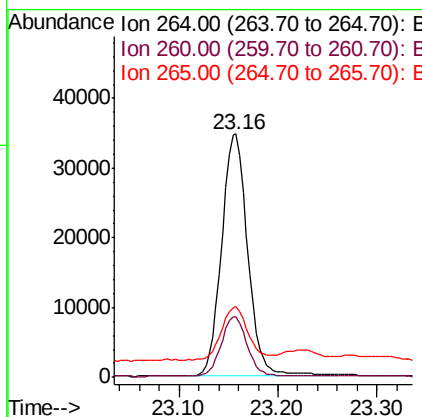
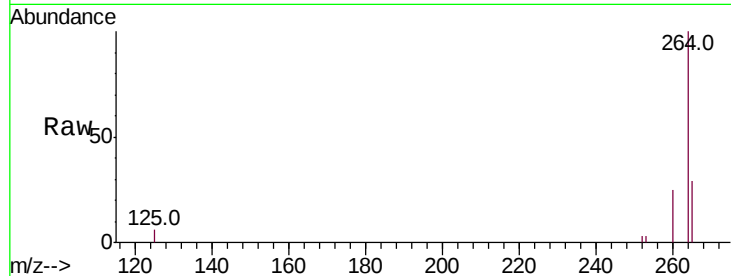




#32
Pervlene-d12
Concen: 0.400 ng
RT: 23.16 min Scan# 2519
Delta R.T. -0.01 min
Lab File: BN007074.D
Acq: 11 Aug 2019 07:24

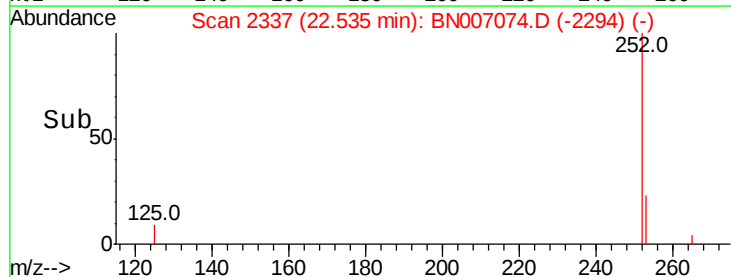
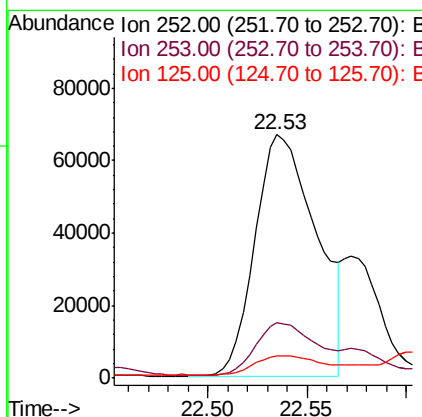
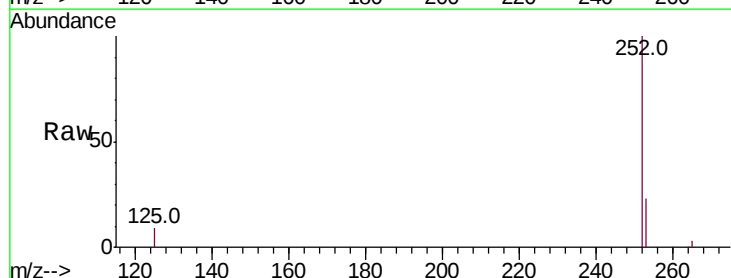
Instrument :
BNA_N
ClientSampleId :

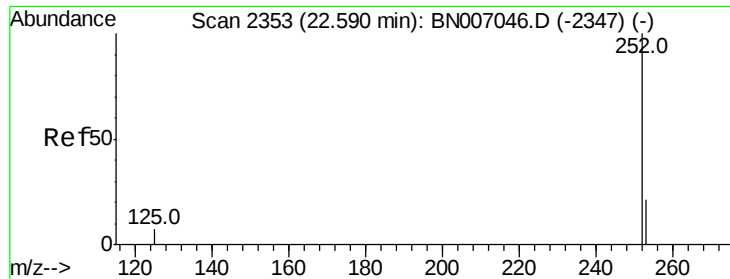
Tot Ion:264 Resp: 63432
Ion Ratio Lower Upper
264 100
260 25.0 19.8 29.8
265 28.8 26.2 39.4



#33
Benzo(b)fluoranthene
Concen: 0.662 ng
RT: 22.53 min Scan# 2337
Delta R.T. -0.01 min
Lab File: BN007074.D
Acq: 11 Aug 2019 07:24

Tgt Ion:252 Resp: 143981
Ion Ratio Lower Upper
252 100
253 22.6 18.2 27.2
125 9.2 7.4 11.0





#34

Benzo(k)fluoranthene

Concen: 0.670 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.05 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

Instrument :

BNA_N

ClientSampleId :

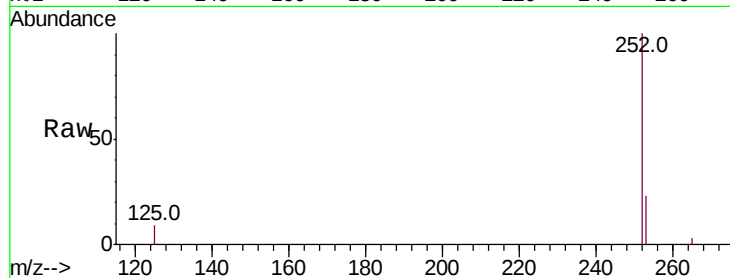
Tot Ion:252 Resp: 143981

Ion Ratio Lower Upper

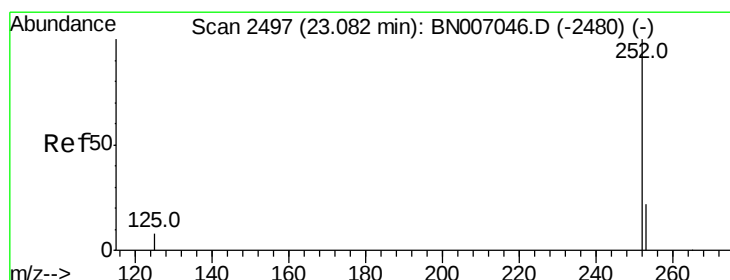
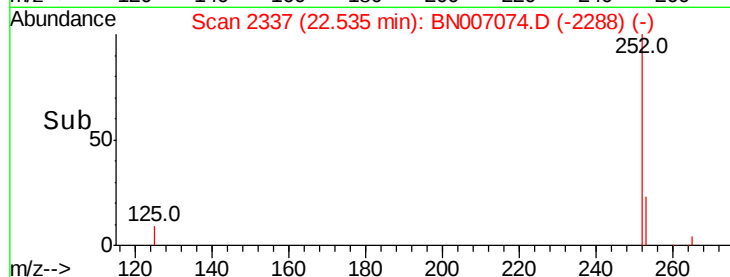
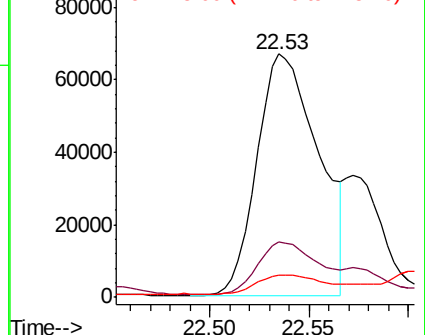
252 100

253 22.6 18.1 27.1

125 9.2 7.4 11.0



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#35

Benzo(a)pyrene

Concen: 0.333 ng

RT: 23.07 min Scan# 2492

Delta R.T. -0.02 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

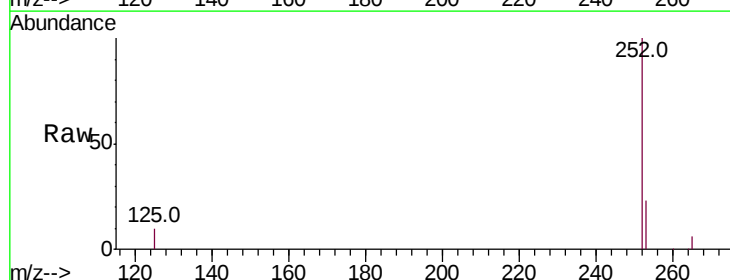
Tgt Ion:252 Resp: 65720

Ion Ratio Lower Upper

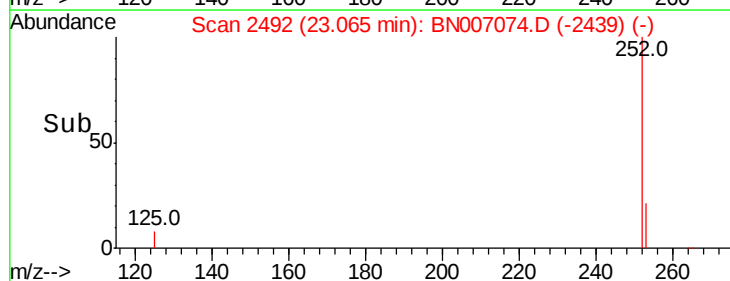
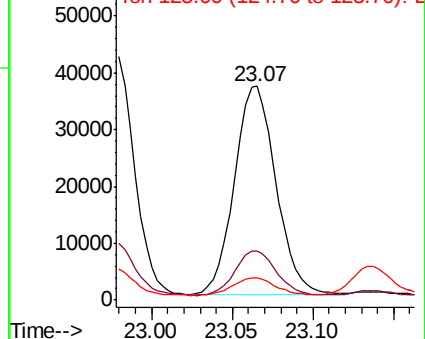
252 100

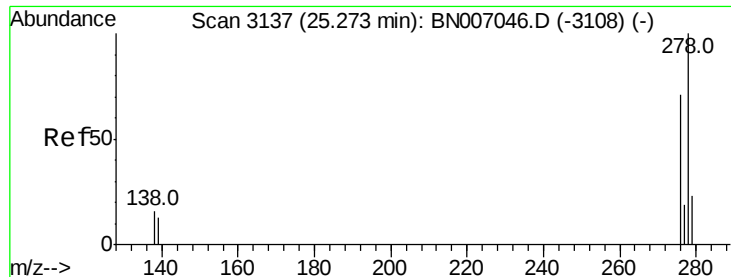
253 23.1 18.5 27.7

125 10.4 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: 0.076 ng

RT: 25.24 min Scan# 3128

Delta R.T. -0.03 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

Instrument :

BNA_N

ClientSampleId :

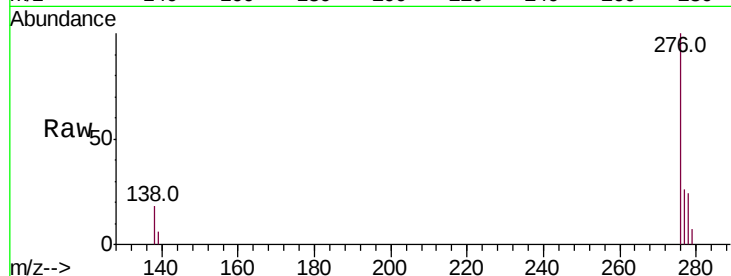
Tot Ion:278 Resp: 14947

Ion Ratio Lower Upper

278 100

139 25.5 11.3 16.9#

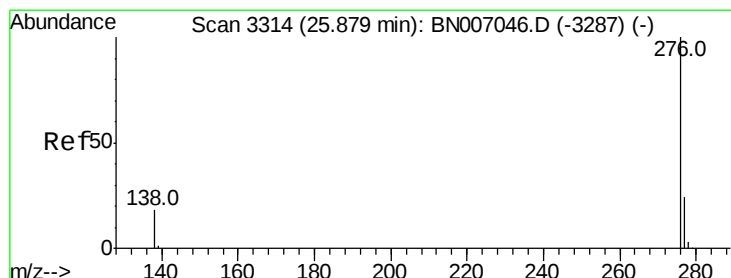
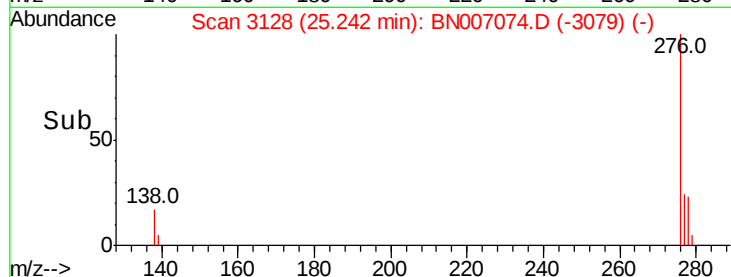
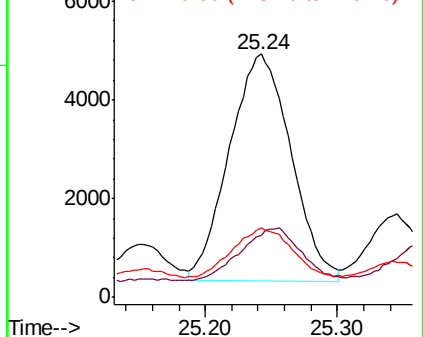
279 28.5 19.3 28.9



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(g,h,i)perylene

Concen: 0.361 ng

RT: 25.86 min Scan# 3308

Delta R.T. -0.02 min

Lab File: BN007074.D

Acq: 11 Aug 2019 07:24

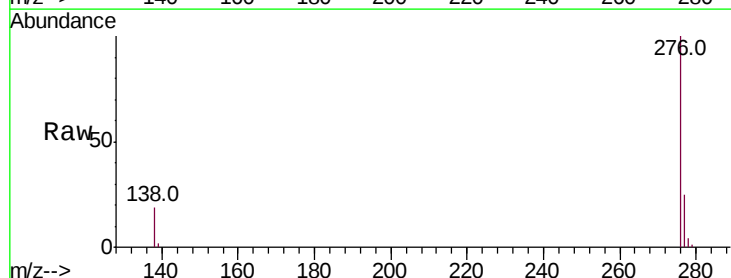
Tgt Ion:276 Resp: 73141

Ion Ratio Lower Upper

276 100

277 25.0 19.8 29.8

138 18.8 14.6 22.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

