

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
 Data File : BN007119.D
 Acq On : 13 Aug 2019 07:31
 Operator : HP/JU
 Sample : K4240-01
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 13 08:24:23 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	9459	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	36749	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	20967	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	49444	0.40	ng	0.00
26) Chrysene-d12	21.05	240	48110	0.40	ng	-0.01
32) Perylene-d12	23.16	264	53127	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	5251	0.23	ng	0.00
4) Phenol-d6	6.62	99	7176	0.25	ng	0.00
7) Nitrobenzene-d5	8.56	82	5728	0.19	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	12446	0.18	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1848	0.16	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3198	0.10	ng	0.00
24) Fluoranthene-d10	18.87	212	27884	0.16	ng	0.00
28) Terphenyl-d14	19.49	244	21253	0.16	ng	-0.01

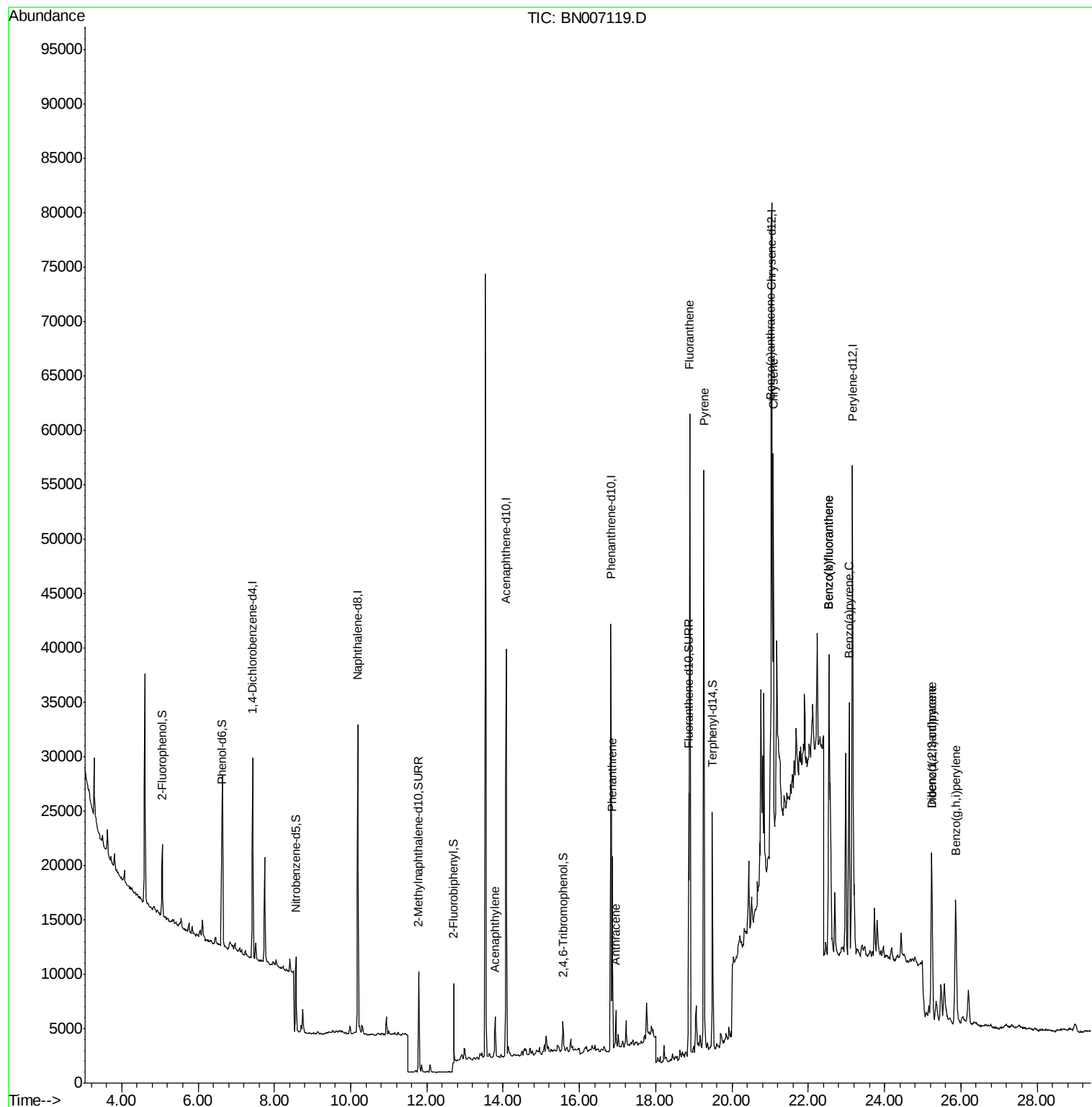
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) Acenaphthylene	13.79	152	5751	0.052	ng	100
22) Phenanthrene	16.87	178	17796	0.120	ng	98
23) Anthracene	16.95	178	4064	0.030	ng	# 91
25) Fluoranthene	18.90	202	52008	0.274	ng	99
27) Pyrene	19.26	202	49402	0.293	ng	# 96
29) Benzo(a)anthracene	21.02	228	30099	0.171	ng	# 88
30) Chrysene	21.08	228	33138	0.194	ng	# 91
31) Indeno(1,2,3-cd)pyrene	25.24	276	23080	0.123	ng	99
33) Benzo(b)fluoranthene	22.54	252	45346	0.249	ng	# 80
34) Benzo(k)fluoranthene	22.54	252	45346	0.252	ng	# 79
35) Benzo(a)pyrene	23.07	252	30259	0.183	ng	# 79
36) Dibenzo(a,h)anthracene	25.25	278	6166	0.037	ng	# 4
37) Benzo(a,h,i)perylene	25.87	276	23233	0.137	ng	# 83

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

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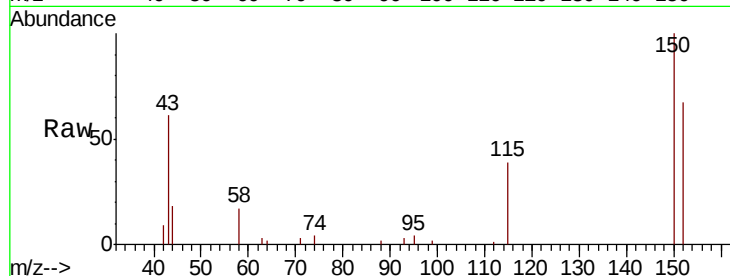


#1

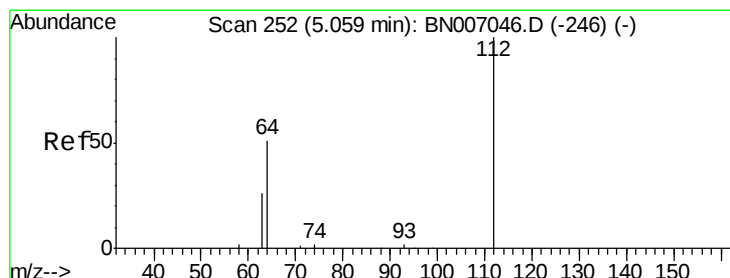
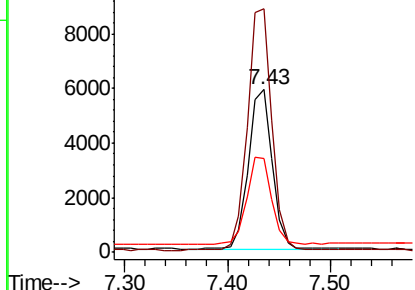
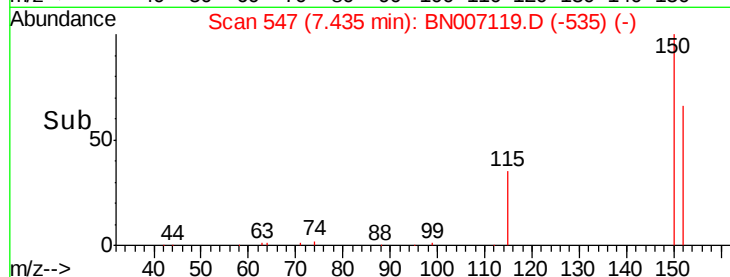
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.43 min Scan# 547
 Delta R.T. -0.00 min
 Lab File: BN007119.D
 Acq: 13 Aug 2019 07:31

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:152 Resp: 9459
 Ion Ratio Lower Upper
 152 100
 150 149.8 121.7 182.5
 115 57.8 46.2 69.4



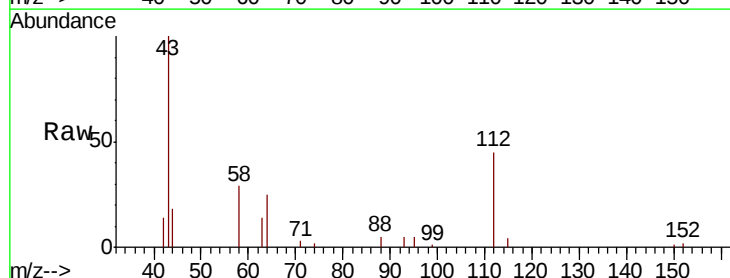
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



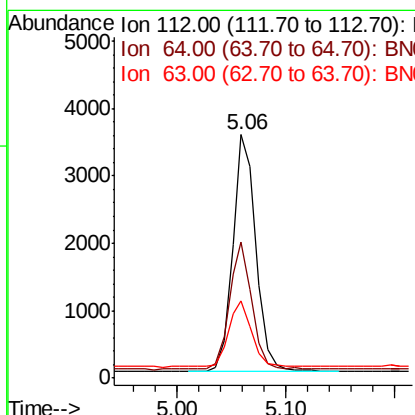
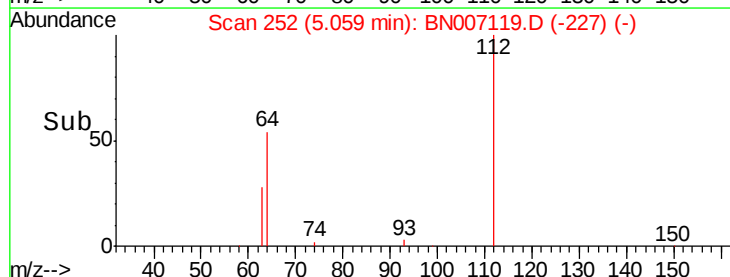
#3

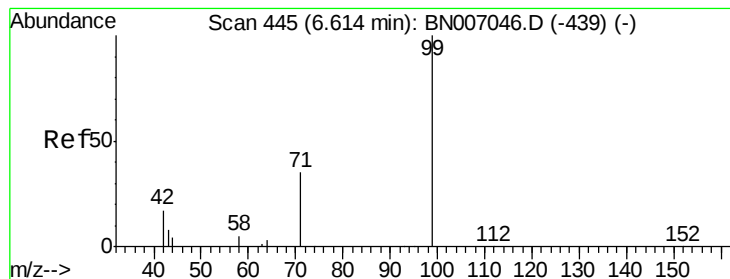
2-Fluorophenol
 Concen: 0.231 ng
 RT: 5.06 min Scan# 252
 Delta R.T. -0.00 min
 Lab File: BN007119.D
 Acq: 13 Aug 2019 07:31

Tgt Ion:112 Resp: 5251
 Ion Ratio Lower Upper
 112 100
 64 52.7 42.6 63.8
 63 27.3 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: 0.255 ng

RT: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

Instrument :

BNA_N

ClientSampleId :

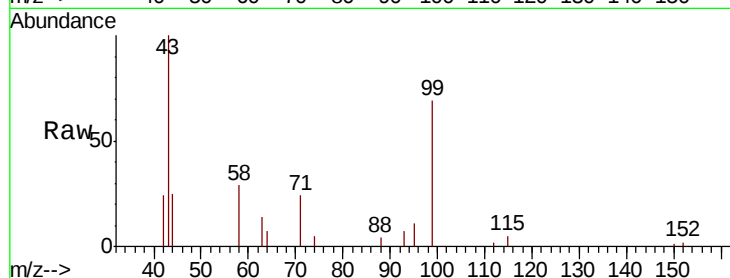
Tot Ion: 99 Resp: 7176

Ion Ratio Lower Upper

99 100

42 31.3 15.8 23.6#

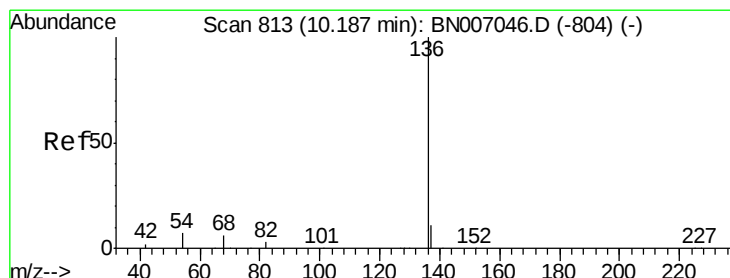
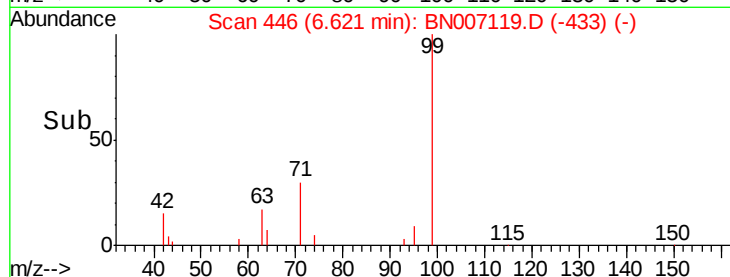
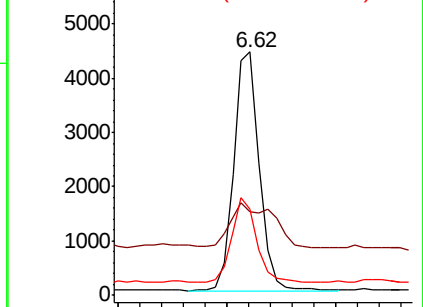
71 34.8 27.0 40.4



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: BN007119.D

Acq: 13 Aug 2019 07:31

Tgt Ion: 136 Resp: 36749

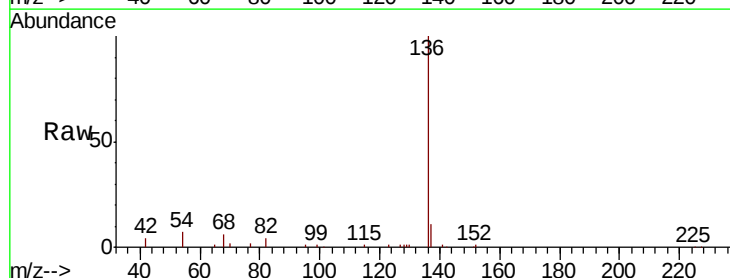
Ion Ratio Lower Upper

136 100

137 11.2 9.4 14.0

54 6.6 6.6 9.8

68 6.1 6.0 9.0

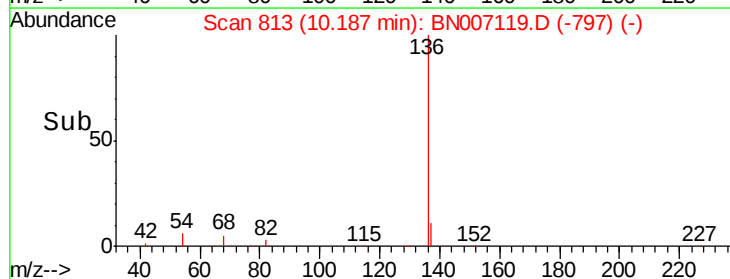
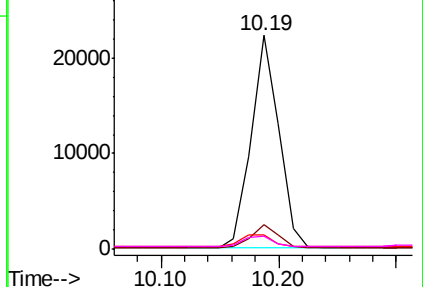


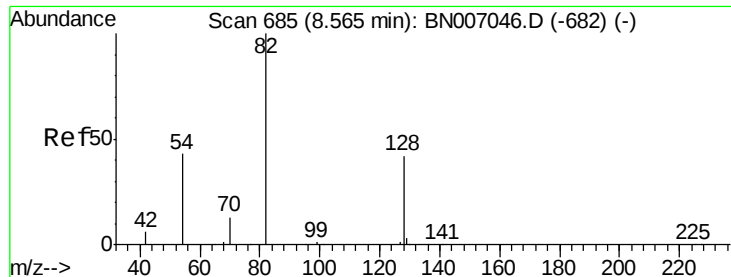
Abundance Ion 136.00 (135.70 to 136.70): BN007046.D (-804) (-)

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: 0.193 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

Instrument :

BNA_N

ClientSampleId :

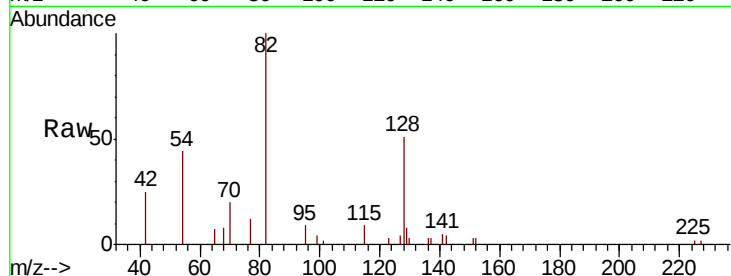
Tot Ion: 82 Resp: 5728

Ion Ratio Lower Upper

82 100

128 51.0 34.6 51.8

54 44.3 36.2 54.4

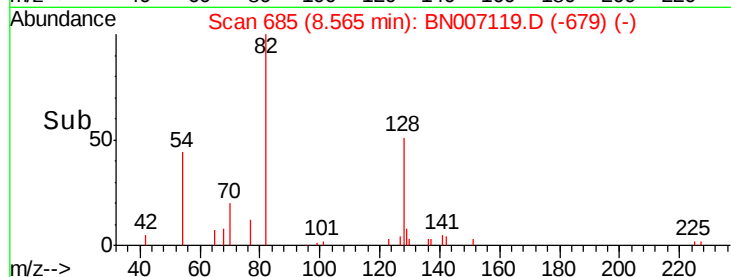


Abundance Ion 82.00 (81.70 to 82.70): BN007046.D (-682) (-)

Ion 128.00 (127.70 to 128.70): BN007046.D (-682) (-)

Ion 54.00 (53.70 to 54.70): BN007046.D (-682) (-)

Time-->

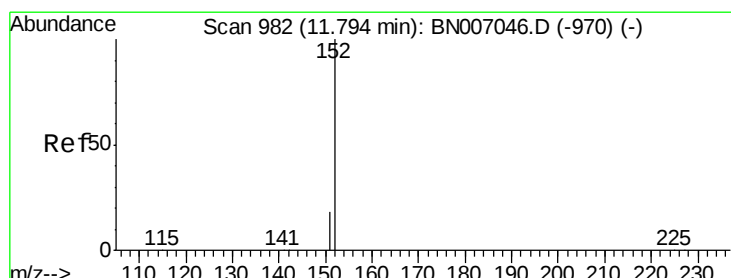


Abundance Ion 82.00 (81.70 to 82.70): BN007119.D (-679) (-)

Ion 128.00 (127.70 to 128.70): BN007119.D (-679) (-)

Ion 54.00 (53.70 to 54.70): BN007119.D (-679) (-)

Time-->



#10

2-Methylnaphthalene-d10

Concen: 0.182 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007119.D

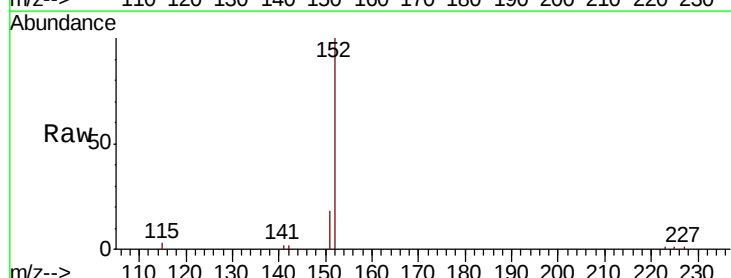
Acq: 13 Aug 2019 07:31

Tgt Ion: 152 Resp: 12446

Ion Ratio Lower Upper

152 100

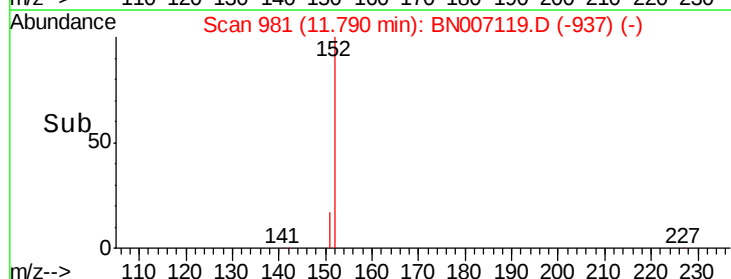
151 19.4 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BN007046.D (-970) (-)

Ion 151.00 (150.70 to 151.70): BN007046.D (-970) (-)

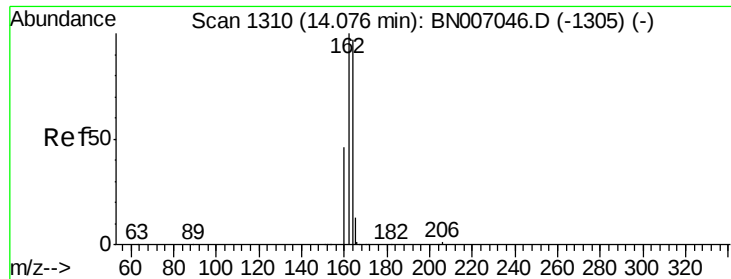
Time-->



Abundance Ion 152.00 (151.70 to 152.70): BN007119.D (-937) (-)

Ion 151.00 (150.70 to 151.70): BN007119.D (-937) (-)

Time-->



#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

Instrument :

BNA_N

ClientSampleId :

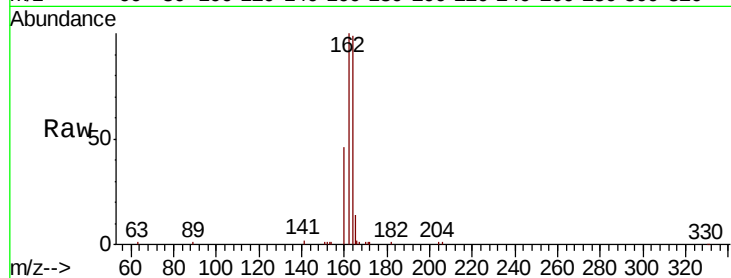
Tot Ion:164 Resp: 20967

Ion Ratio Lower Upper

164 100

162 100.8 82.2 123.4

160 46.0 38.3 57.5

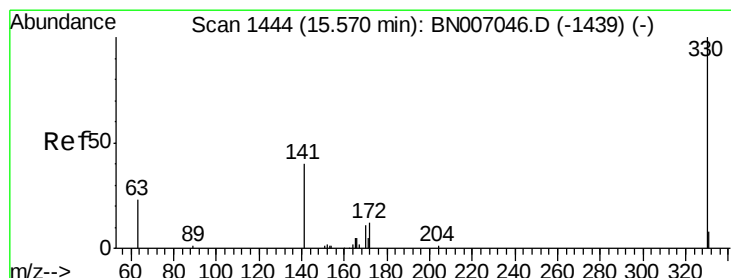
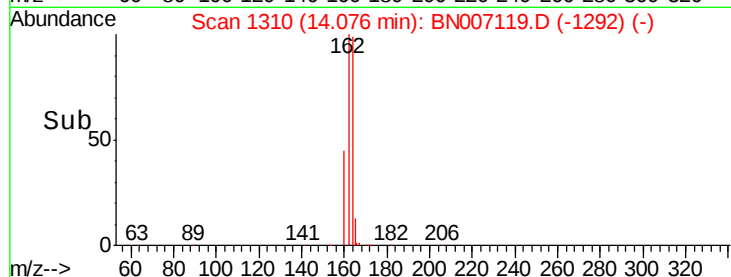
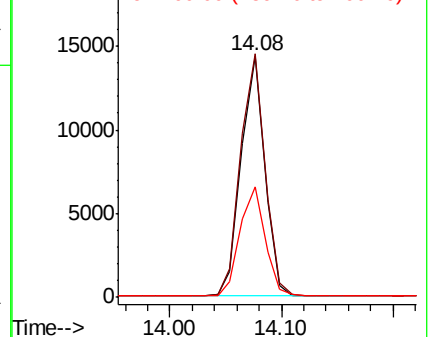


Abundance

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: 0.164 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

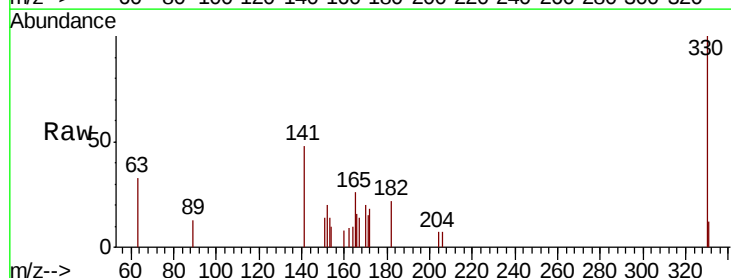
Tgt Ion:330 Resp: 1848

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 43.7 33.6 50.4

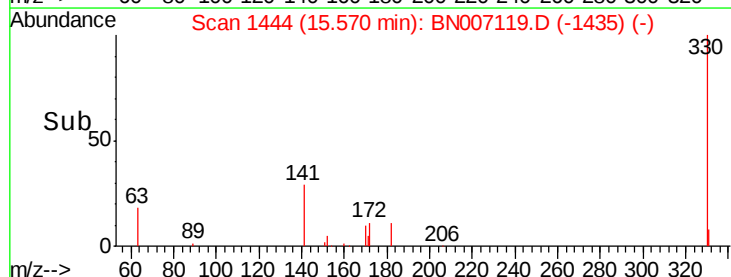
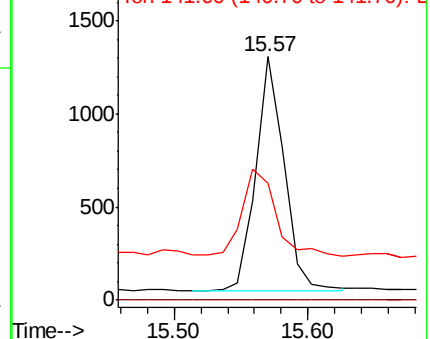


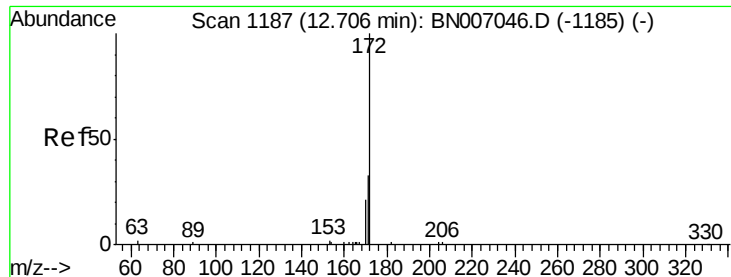
Abundance

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

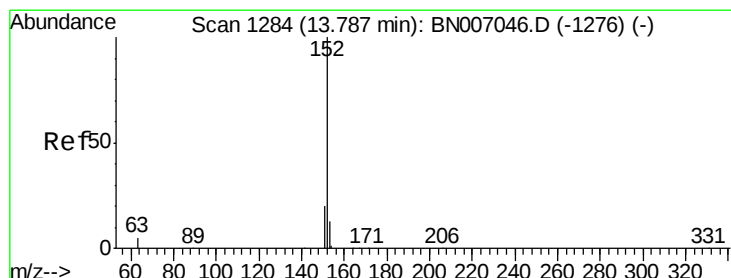
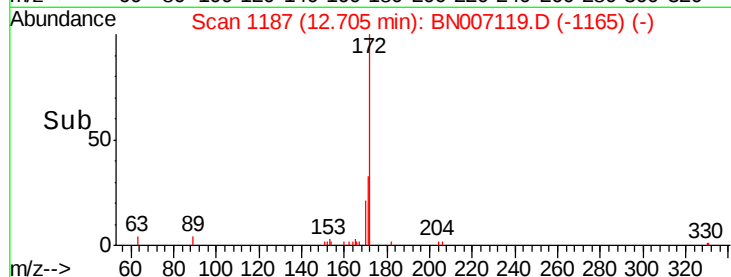
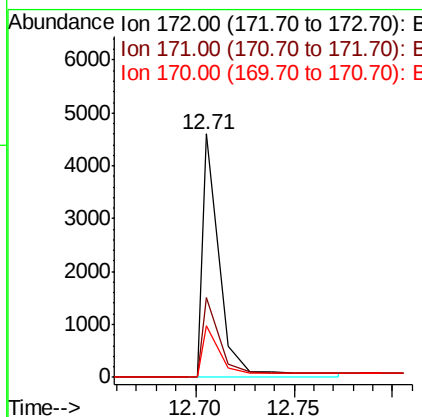
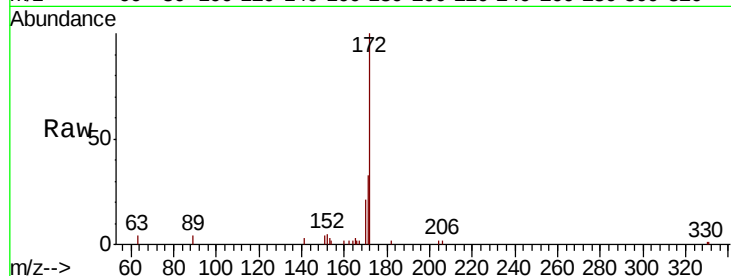




#14
2-Fluorobiphenyl
Concen: 0.105 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007119.D
Acq: 13 Aug 2019 07:31

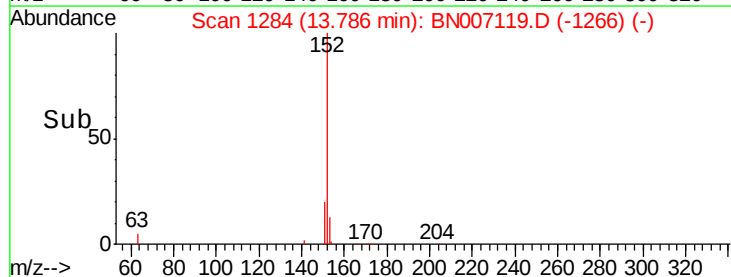
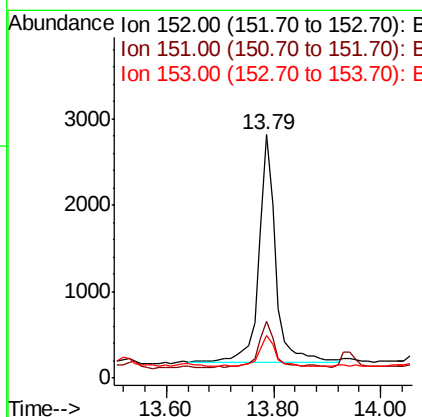
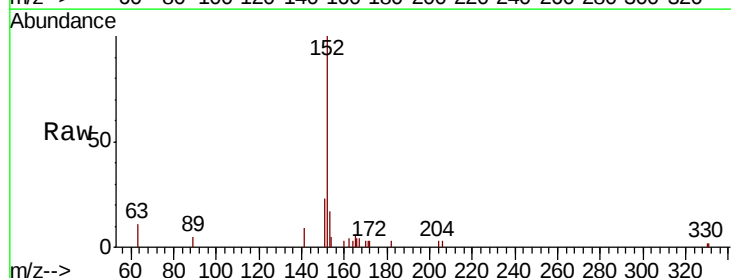
Instrument :
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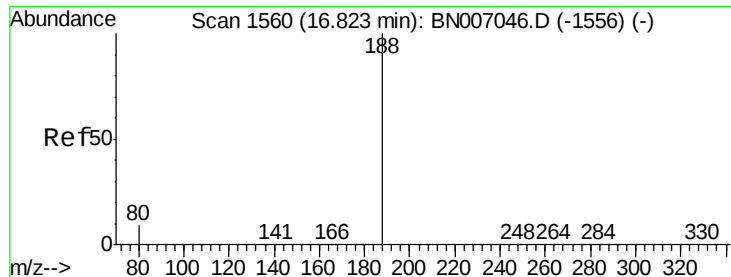
Tot Ion:172 Resp: 3198
Ion Ratio Lower Upper
172 100
171 32.6 26.3 39.5
170 21.0 17.0 25.4



#15
Acenaphthylene
Concen: 0.052 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007119.D
Acq: 13 Aug 2019 07:31

Tgt Ion:152 Resp: 5751
Ion Ratio Lower Upper
152 100
151 19.6 15.8 23.6
153 13.3 10.4 15.6

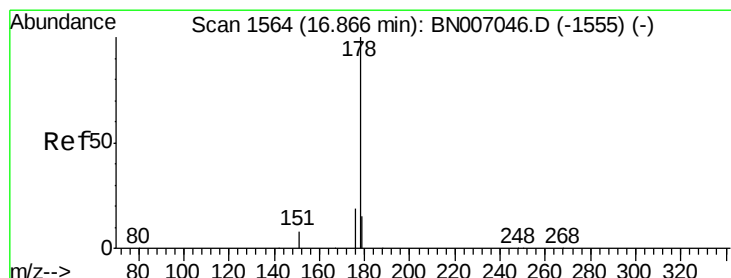
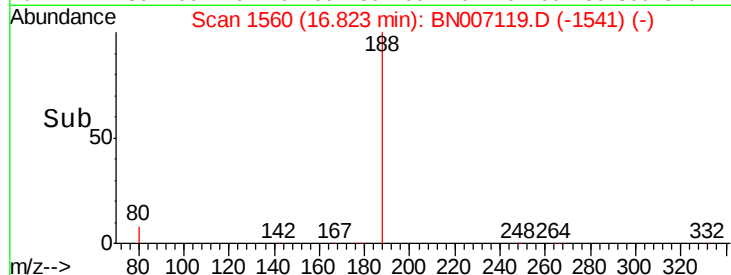
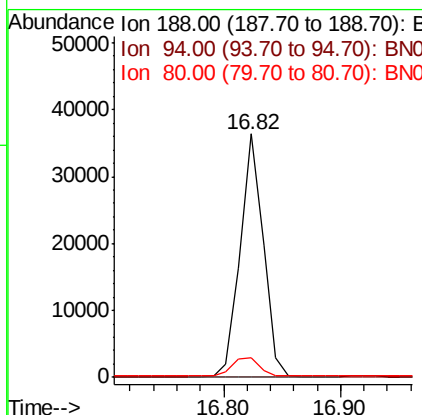
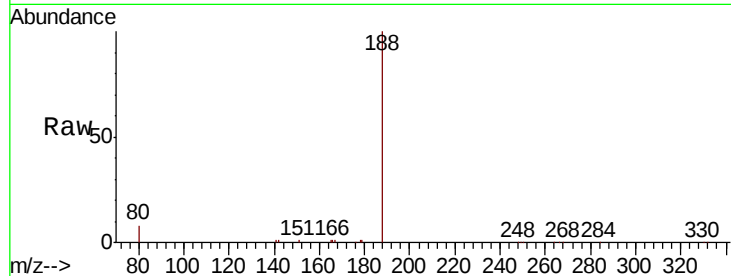




#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007119.D
Acq: 13 Aug 2019 07:31

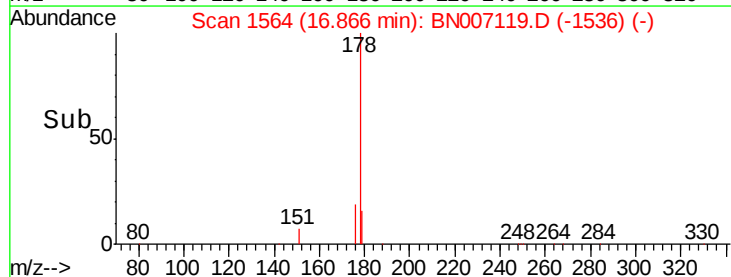
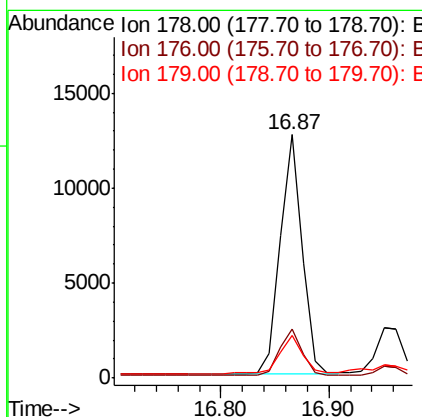
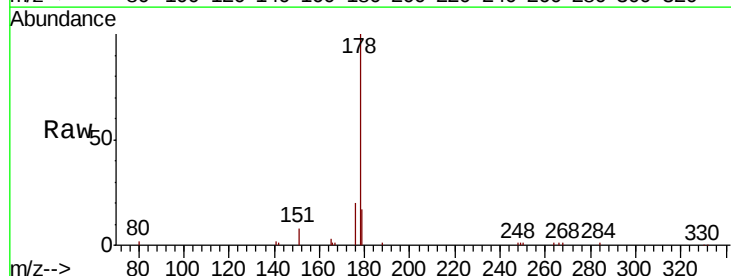
Instrument :
BNA_N
ClientSampleId :

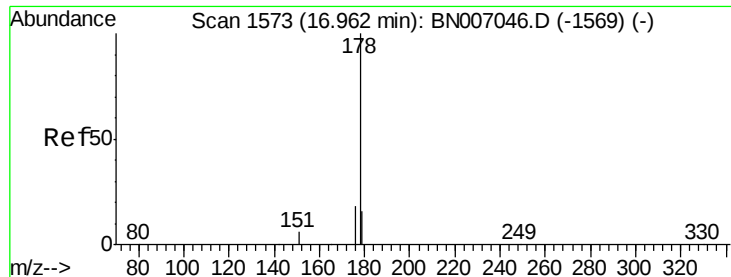
Tot Ion:188 Resp: 49444
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.2 7.8 11.6



#22
Phenanthrene
Concen: 0.120 ng
RT: 16.87 min Scan# 1564
Delta R.T. -0.00 min
Lab File: BN007119.D
Acq: 13 Aug 2019 07:31

Tgt Ion:178 Resp: 17796
Ion Ratio Lower Upper
178 100
176 19.1 15.2 22.8
179 16.8 12.3 18.5





#23

Anthracene

Concen: 0.030 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

Instrument :

BNA_N

ClientSampleId :

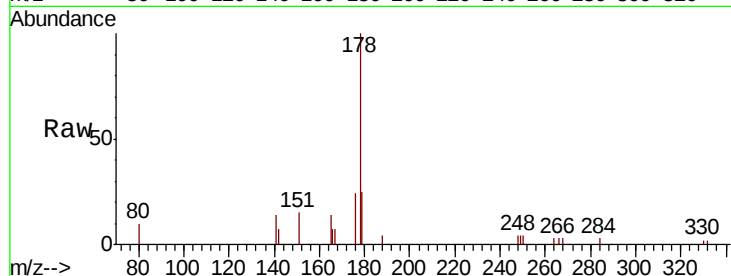
Tot Ion:178 Resp: 4064

Ion Ratio Lower Upper

178 100

176 18.9 14.6 21.8

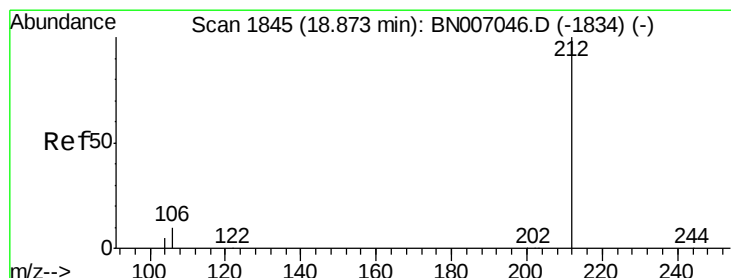
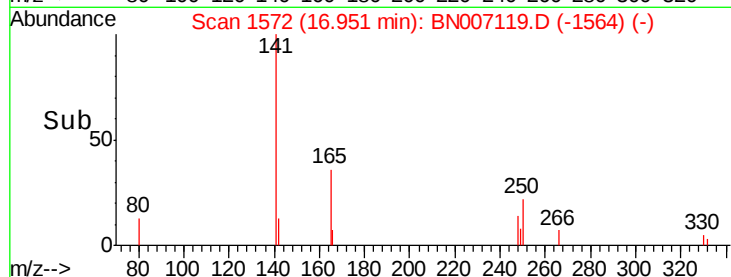
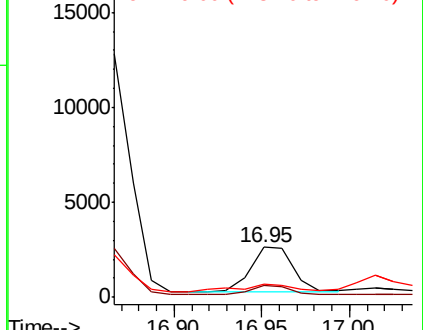
179 22.8 12.5 18.7#



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: 0.159 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

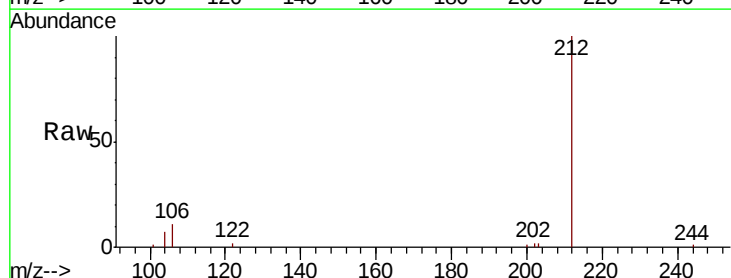
Tgt Ion:212 Resp: 27884

Ion Ratio Lower Upper

212 100

106 10.6 8.2 12.2

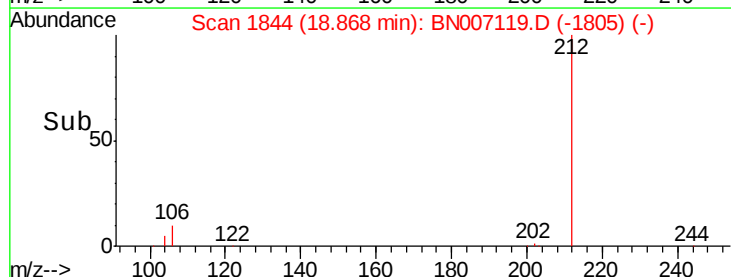
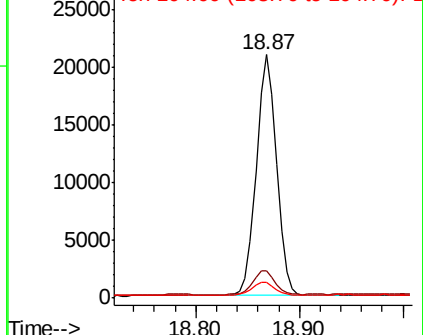
104 5.9 4.5 6.7

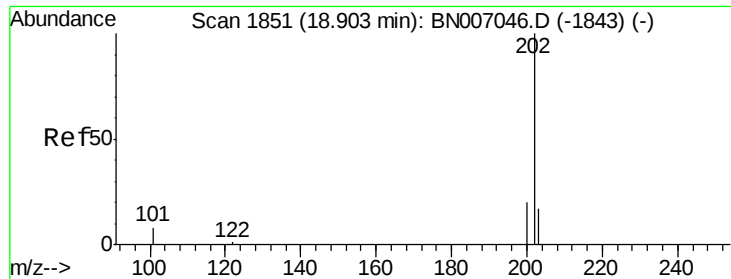


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 0.274 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

Instrument :

BNA_N

ClientSampled :

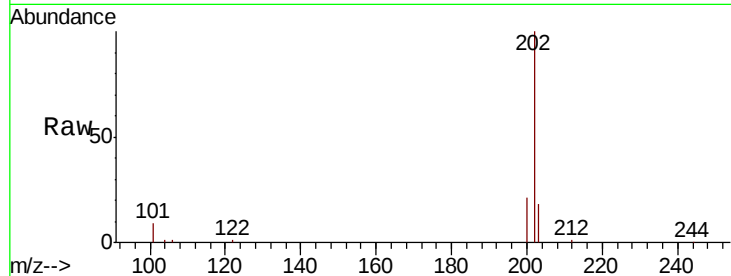
Tot Ion:202 Resp: 52008

Ion Ratio Lower Upper

202 100

101 9.1 7.0 10.4

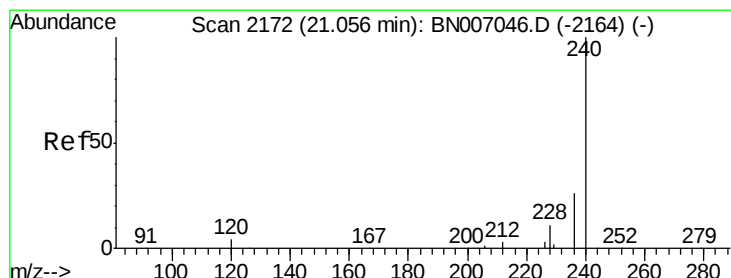
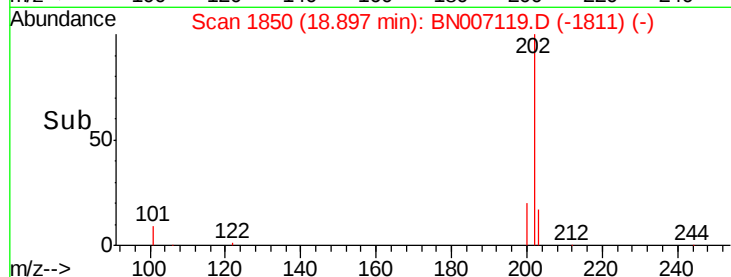
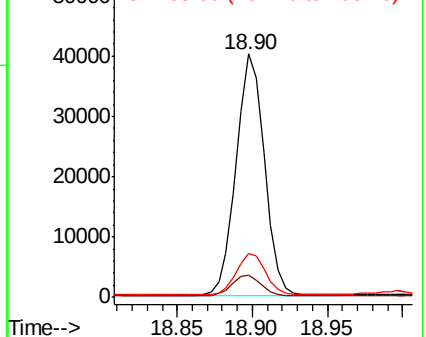
203 17.4 13.8 20.8



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: BN007119.D

Acq: 13 Aug 2019 07:31

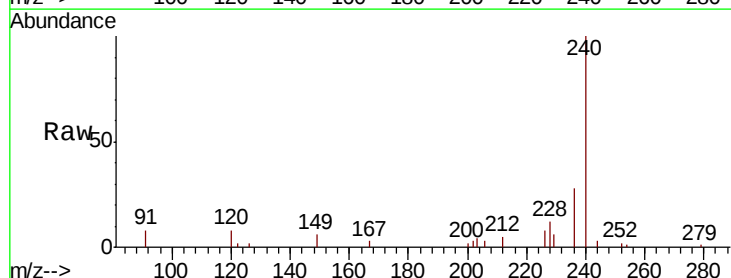
Tgt Ion:240 Resp: 48110

Ion Ratio Lower Upper

240 100

120 7.9 4.0 6.0#

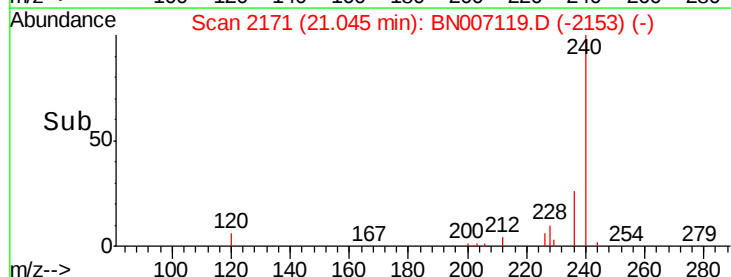
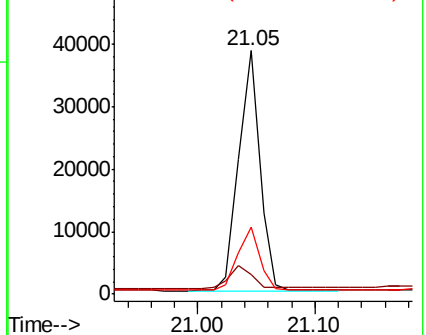
236 27.6 21.3 31.9

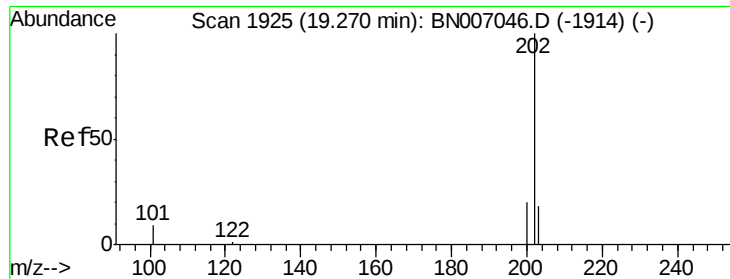


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

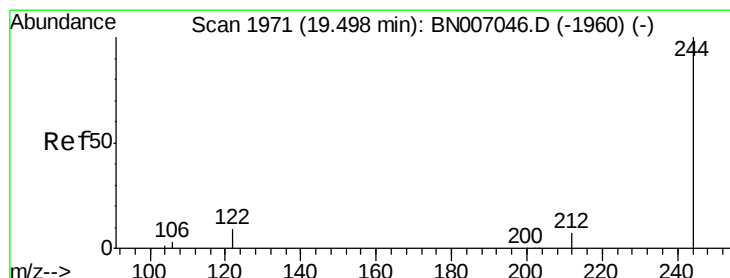
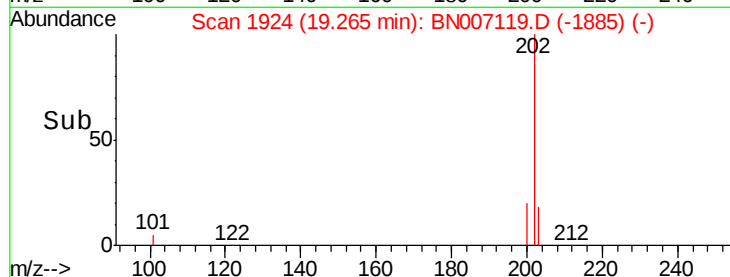
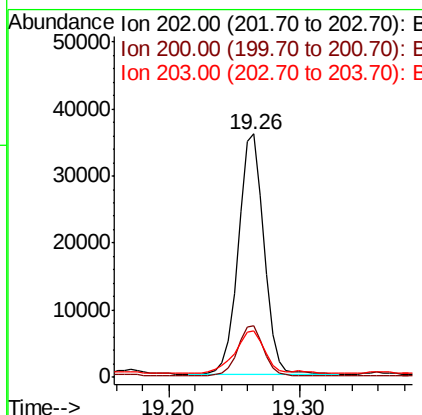
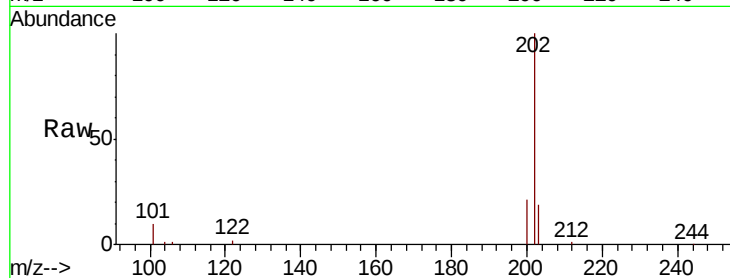




#27
Pvrene
Concen: 0.293 ng
RT: 19.26 min Scan# 1924
Delta R.T. -0.01 min
Lab File: BN007119.D
Acq: 13 Aug 2019 07:31

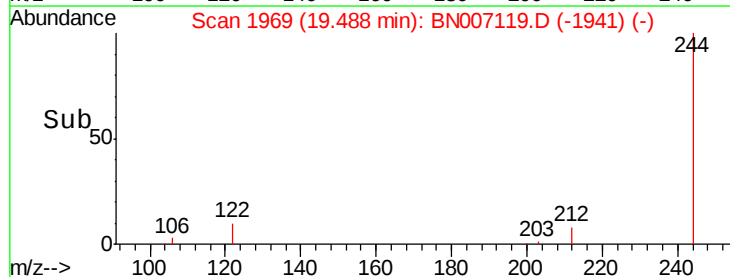
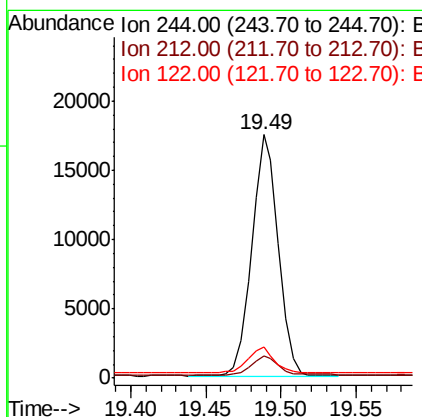
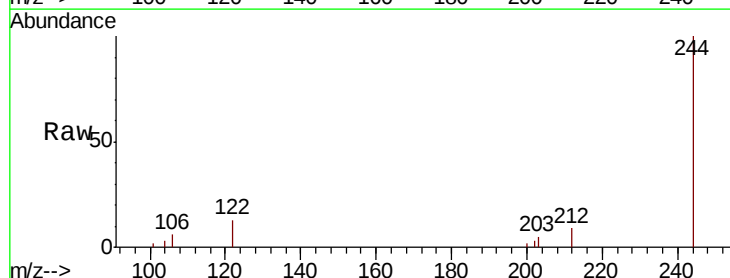
Instrument :
BNA_N
ClientSampled :

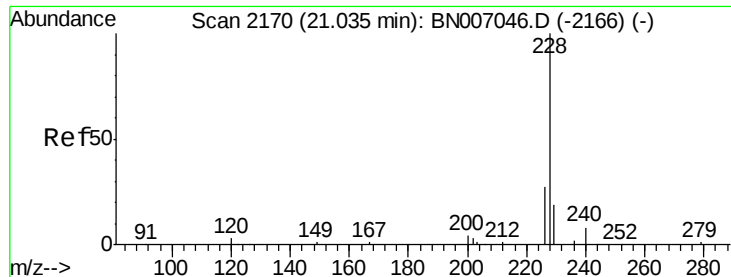
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	24.8
203	21.4	14.0	21.0



#28
Terphenyl-d14
Concen: 0.162 ng
RT: 19.49 min Scan# 1969
Delta R.T. -0.01 min
Lab File: BN007119.D
Acq: 13 Aug 2019 07:31

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.1	6.2	9.2
122	12.6	7.4	11.2





#29

Benzo(a)anthracene

Concen: 0.171 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

Instrument :

BNA_N

ClientSampleId :

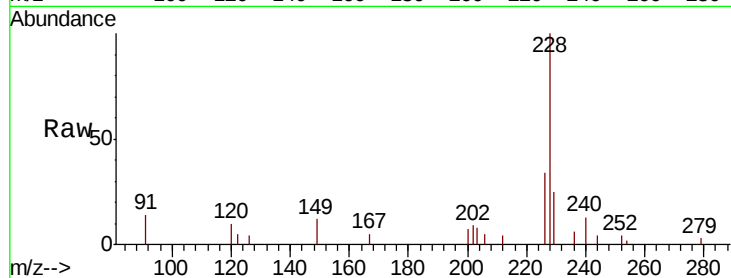
Tot Ion:228 Resp: 30099

Ion Ratio Lower Upper

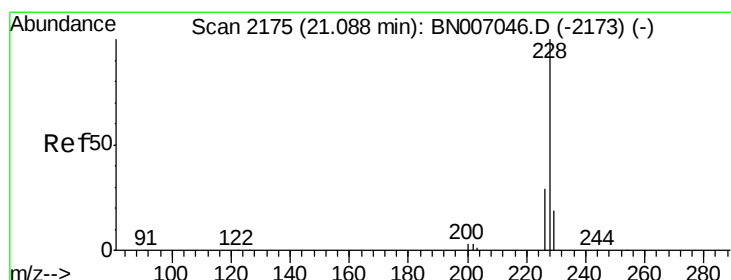
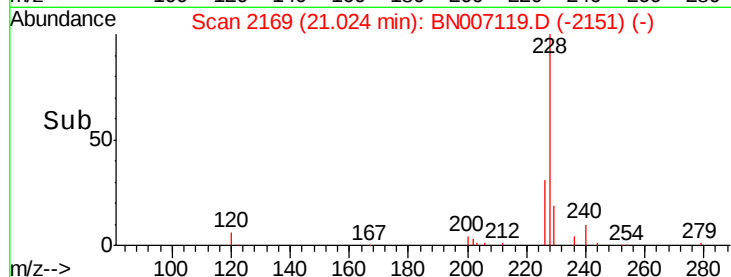
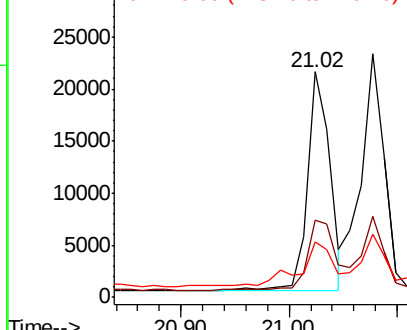
228 100

226 34.1 21.8 32.6#

229 24.5 15.6 23.4#



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



#30

Chrysene

Concen: 0.194 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

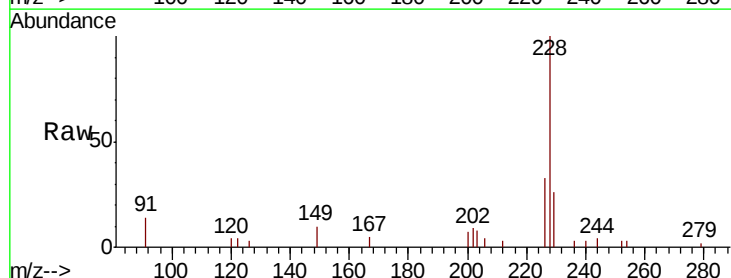
Tgt Ion:228 Resp: 33138

Ion Ratio Lower Upper

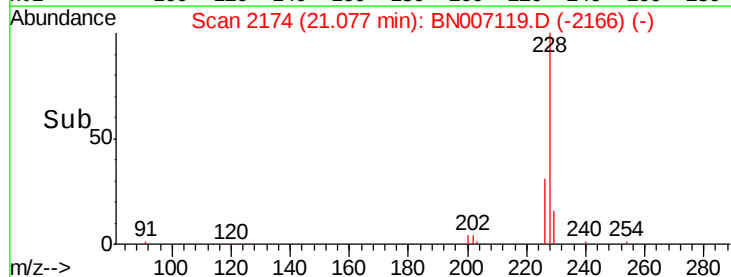
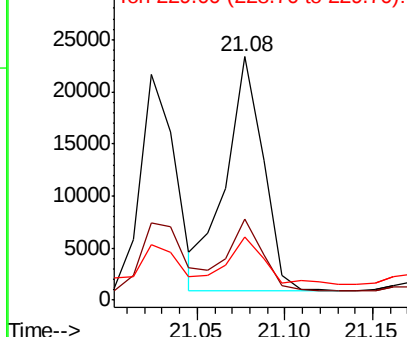
228 100

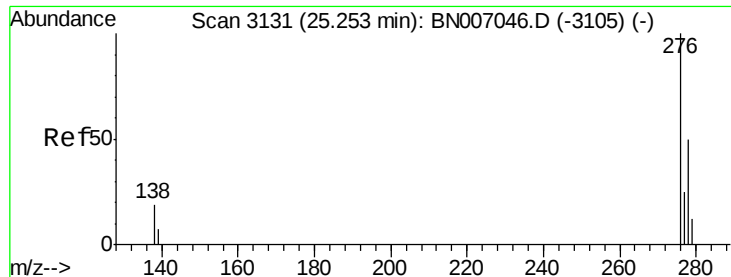
226 33.0 23.8 35.6

229 26.0 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: 0.123 ng

RT: 25.24 min Scan# 3127

Delta R.T. -0.01 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

Instrument :

BNA_N

ClientSampleId :

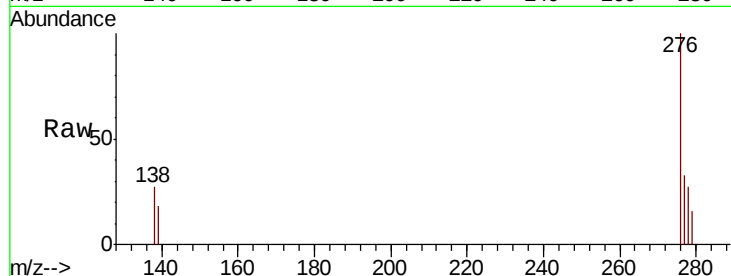
Tot Ion:276 Resp: 23080

Ion Ratio Lower Upper

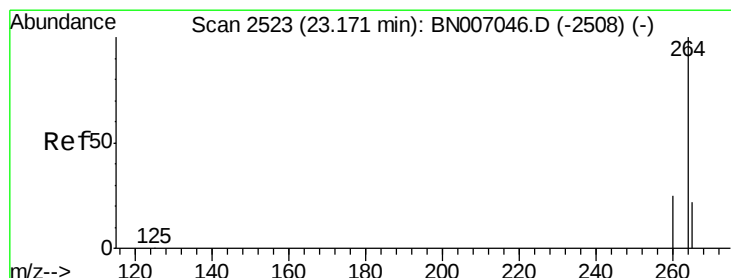
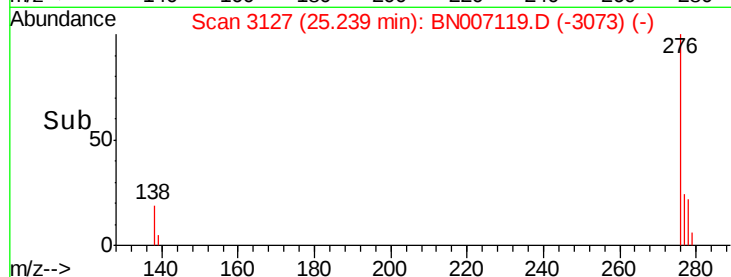
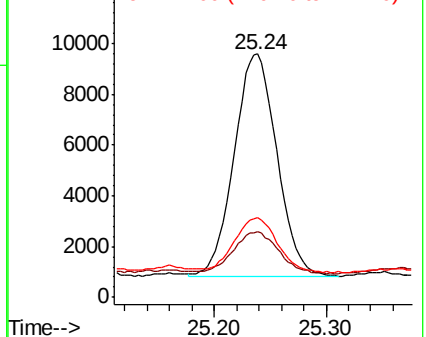
276 100

138 20.3 16.0 24.0

277 25.1 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# 2520

Delta R.T. -0.01 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

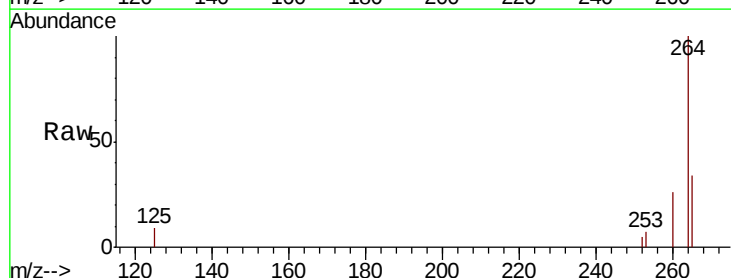
Tgt Ion:264 Resp: 53127

Ion Ratio Lower Upper

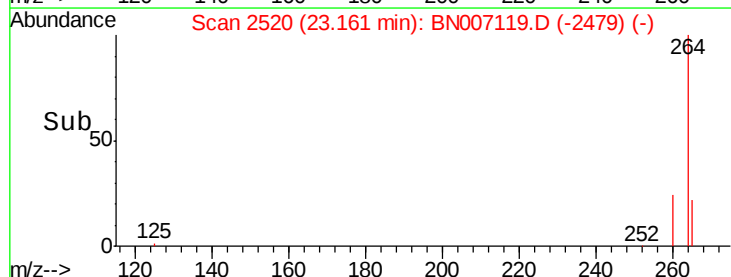
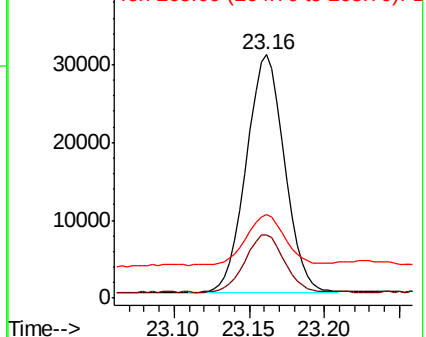
264 100

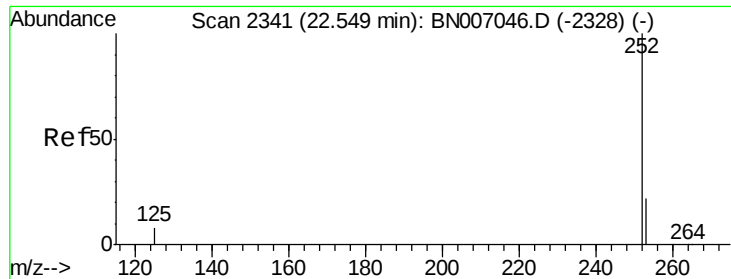
260 26.2 19.8 29.8

265 34.5 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: 0.249 ng

RT: 22.54 min Scan# 2339

Delta R.T. -0.01 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

Instrument :

BNA_N

ClientSampleId :

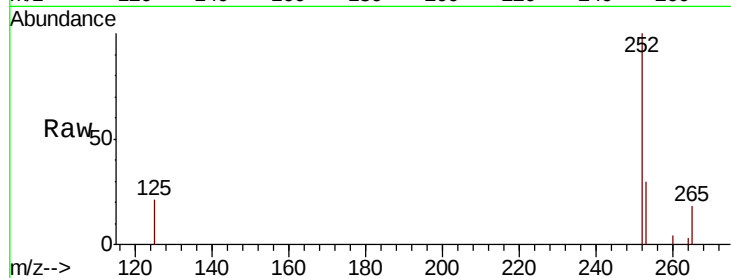
Tot Ion:252 Resp: 45346

Ion Ratio Lower Upper

252 100

253 30.4 18.2 27.2#

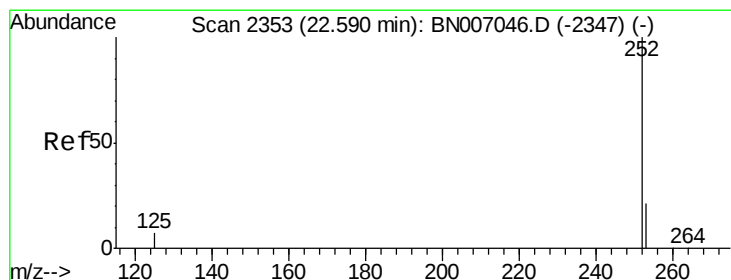
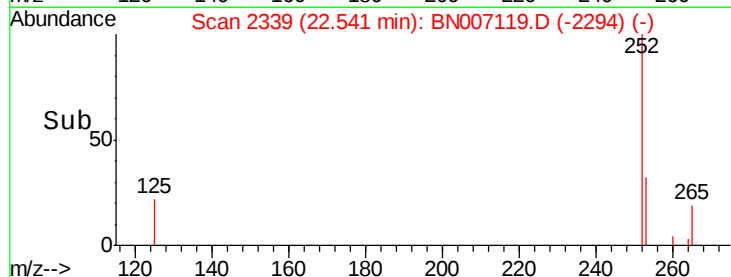
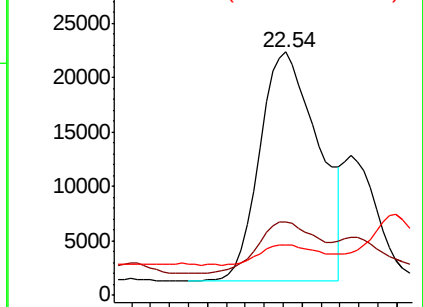
125 20.7 7.4 11.0#



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: 0.252 ng

RT: 22.54 min Scan# 2339

Delta R.T. -0.05 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

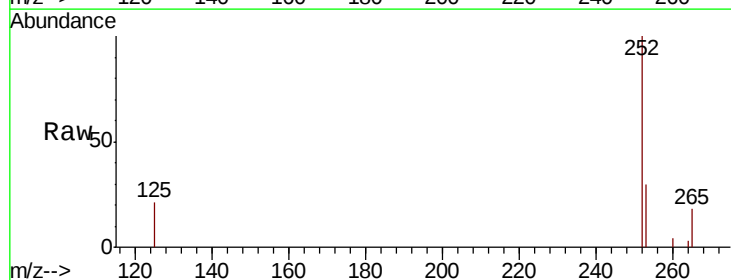
Tgt Ion:252 Resp: 45346

Ion Ratio Lower Upper

252 100

253 30.4 18.1 27.1#

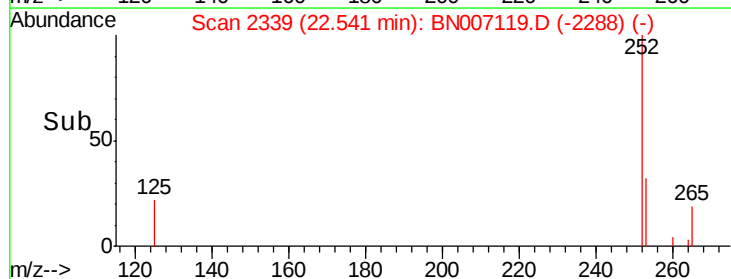
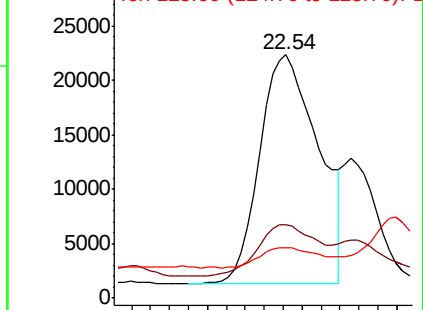
125 20.7 7.4 11.0#

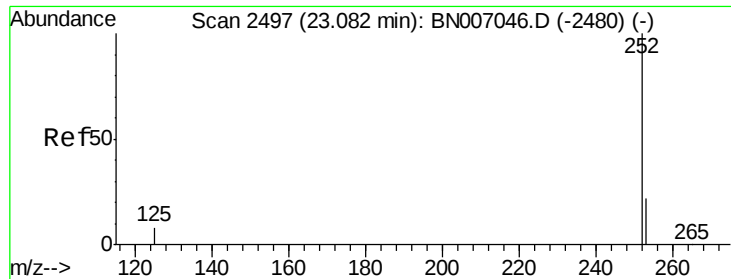


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#35

Benzo(a)pyrene

Concen: 0.183 ng

RT: 23.07 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

Instrument :

BNA_N

ClientSampled :

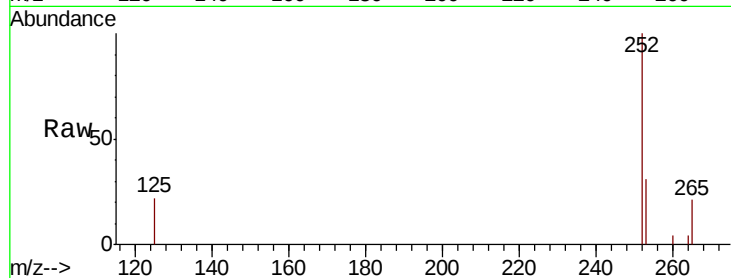
Tot Ion:252 Resp: 30259

Ion Ratio Lower Upper

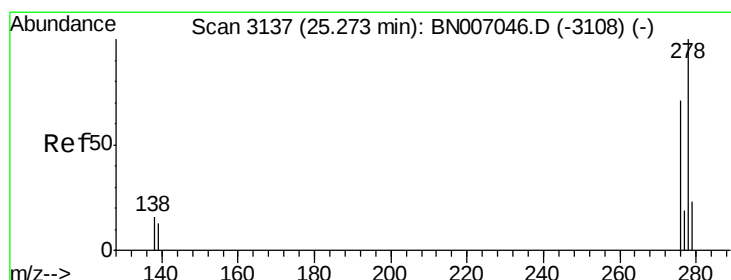
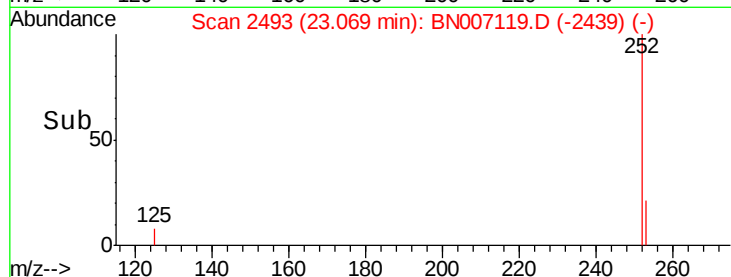
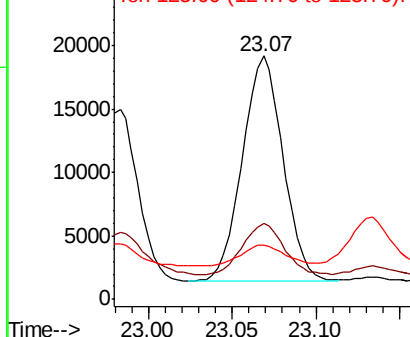
252 100

253 31.0 18.5 27.7#

125 22.4 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: 0.037 ng

RT: 25.25 min Scan# 3129

Delta R.T. -0.03 min

Lab File: BN007119.D

Acq: 13 Aug 2019 07:31

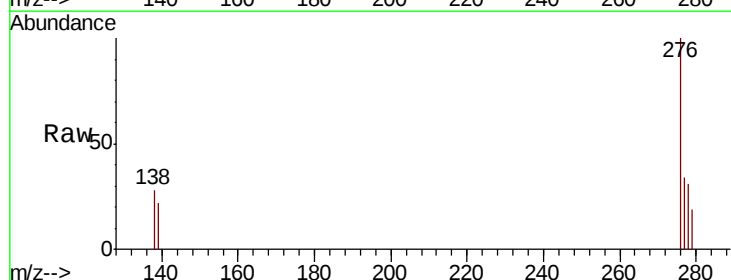
Tgt Ion:278 Resp: 6166

Ion Ratio Lower Upper

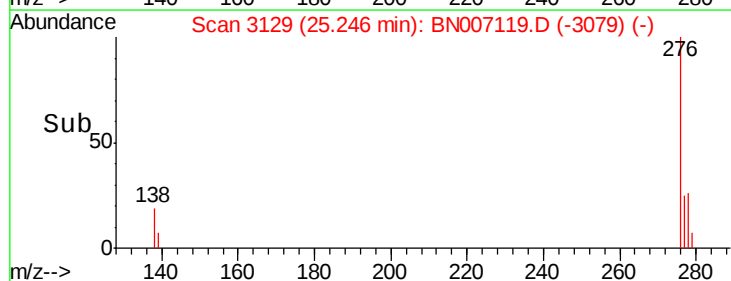
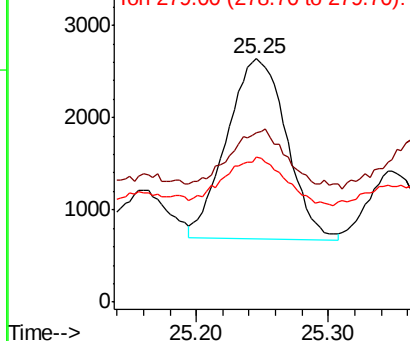
278 100

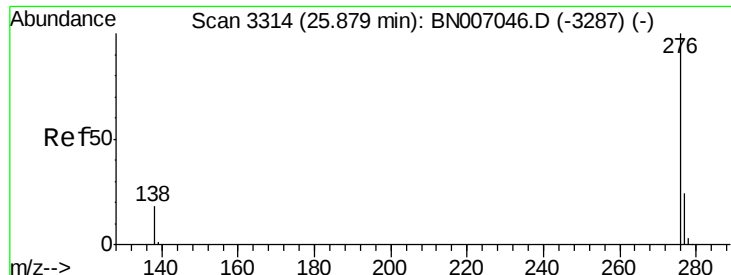
139 69.7 11.3 16.9#

279 59.7 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

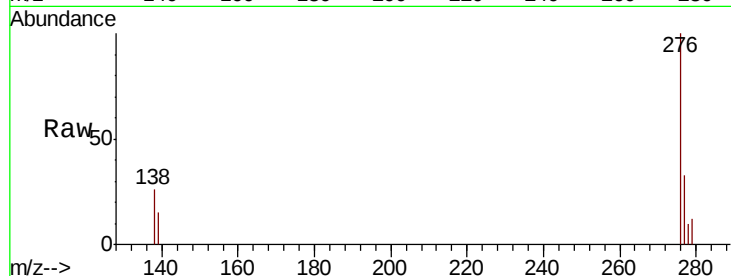




#37
 Benzo(a,h,i)perylene
 Concen: 0.137 ng
 RT: 25.87 min Scan# 3311
 Delta R.T. -0.01 min
 Lab File: BN007119.D
 Acq: 13 Aug 2019 07:31

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	32.8	19.8	29.8#
138	26.0	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

