

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081019\
 Data File : BN007060.D
 Acq On : 10 Aug 2019 22:22
 Operator : HP/JU
 Sample : K4143-11
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 11 04:37:12 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	9077	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	34866	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	20083	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	49970	0.40	ng	0.00
26) Chrysene-d12	21.05	240	53107	0.40	ng	-0.01
32) Perylene-d12	23.16	264	57366	0.40	ng	-0.01

System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	6140	0.28	ng	0.00
4) Phenol-d6	6.61	99	8245	0.31	ng	0.00
7) Nitrobenzene-d5	8.56	82	6288	0.22	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	15110	0.23	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1987	0.18	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	6534	0.22	ng	0.00
24) Fluoranthene-d10	18.87	212	40638	0.23	ng	0.00
28) Terphenyl-d14	19.49	244	31977	0.22	ng	-0.01

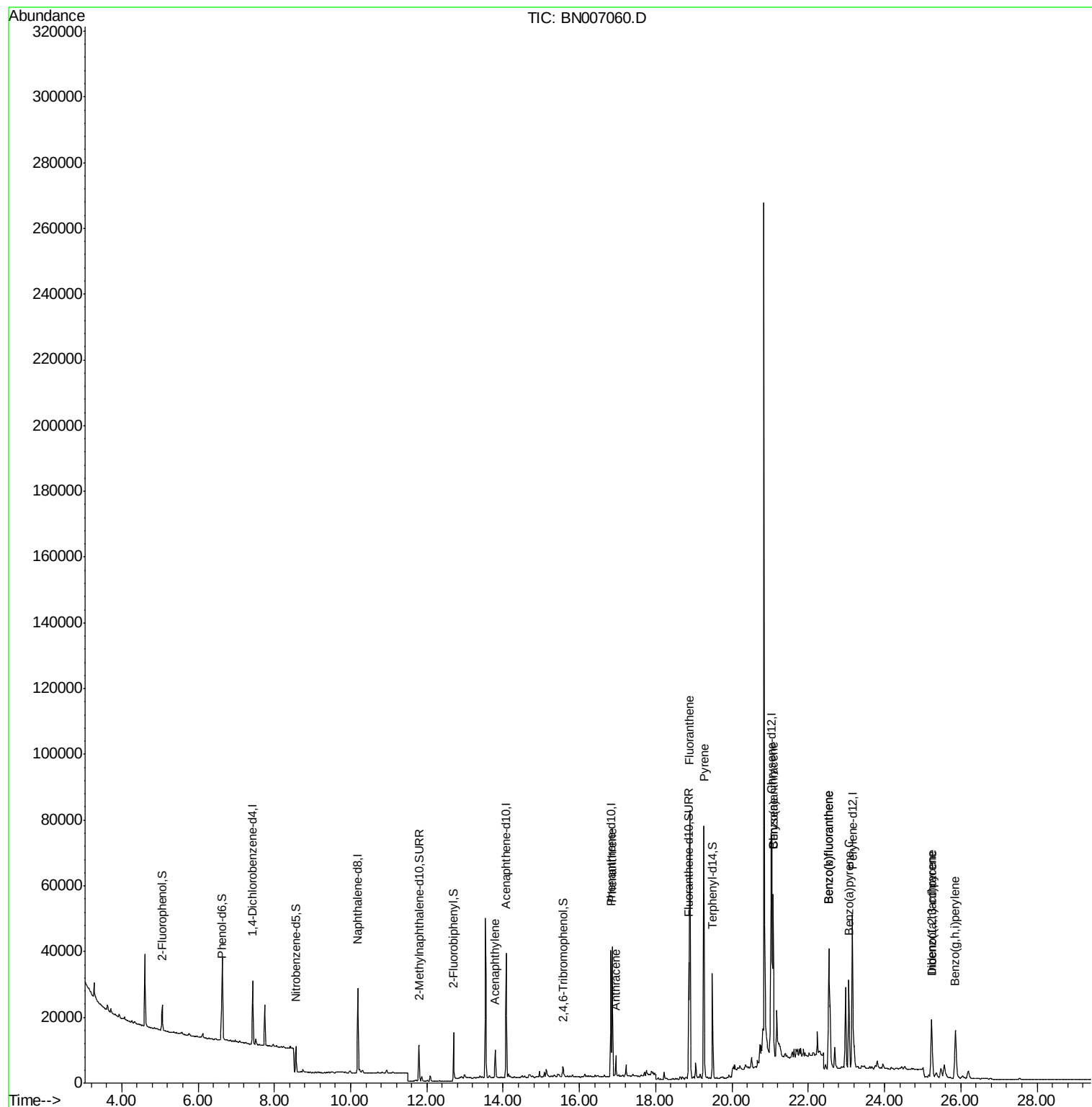
Target Compounds				Qvalue		
15) Acenaphthylene	13.79	152	11126	0.106	ng	99
22) Phenanthrene	16.87	178	38556	0.257	ng	99
23) Anthracene	16.96	178	7157	0.052	ng	# 96
25) Fluoranthene	18.90	202	73693	0.385	ng	100
27) Pyrene	19.26	202	71752	0.385	ng	97
29) Benzo(a)anthracene	21.08	228	46195	0.238	ng	94
30) Chrysene	21.08	228	46094	0.244	ng	97
31) Indeno(1,2,3-cd)pyrene	25.23	276	27707	0.133	ng	97
33) Benzo(b)fluoranthene	22.54	252	59291	0.301	ng	97
34) Benzo(k)fluoranthene	22.54	252	59291	0.305	ng	97
35) Benzo(a)pyrene	23.07	252	36084	0.202	ng	97
36) Dibenzo(a,h)anthracene	25.25	278	7532	0.042	ng	# 79
37) Benzo(a,h,i)perylene	25.86	276	29562	0.162	ng	98

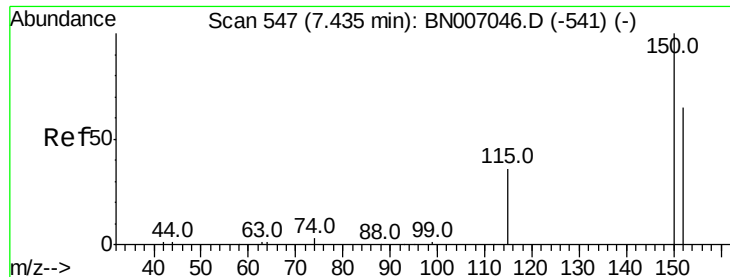
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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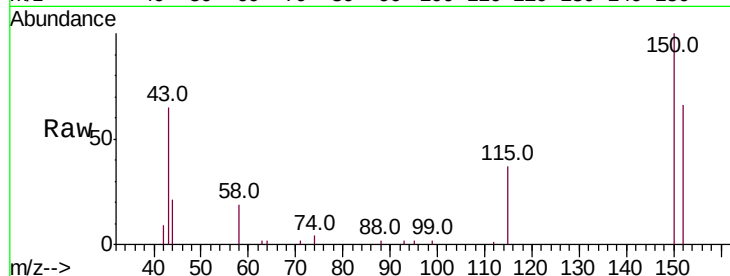


#1

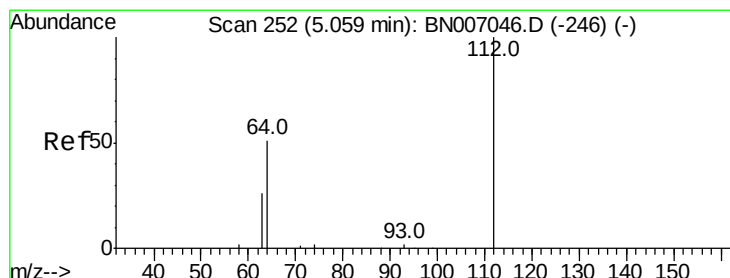
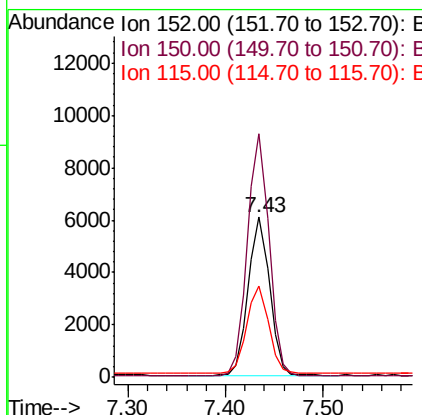
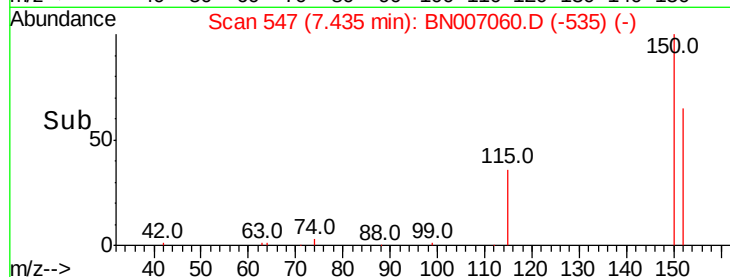
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007060.D
Acq: 10 Aug 2019 22:22

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 9077
Ion Ratio Lower Upper
152 100
150 151.9 121.7 182.5
115 56.8 46.2 69.4



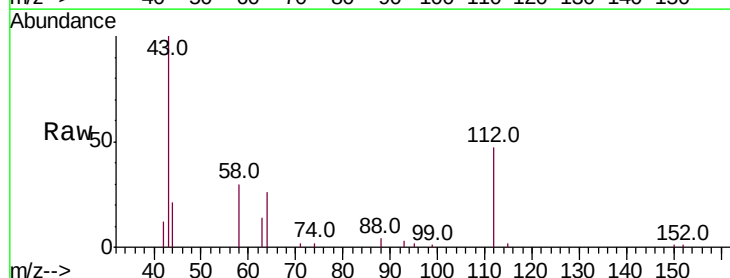
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



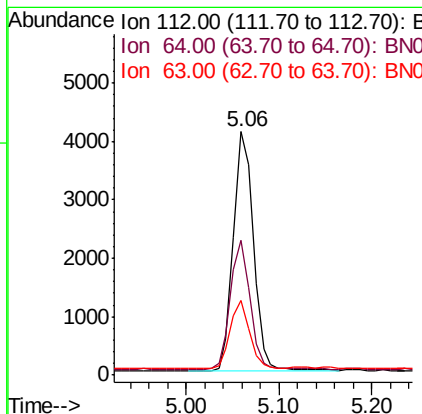
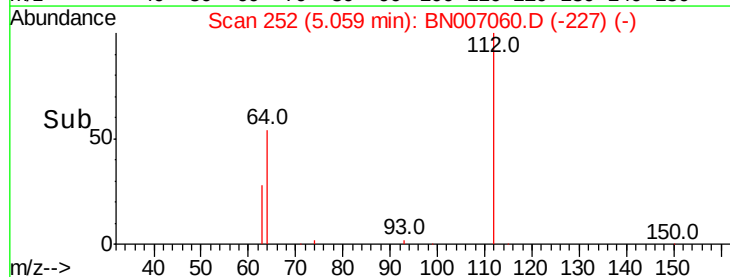
#3

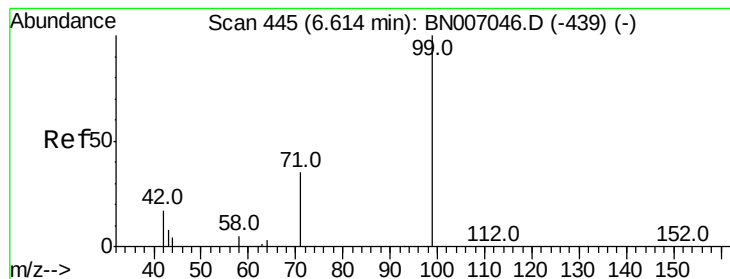
2-Fluorophenol
Concen: 0.282 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007060.D
Acq: 10 Aug 2019 22:22

Tgt Ion:112 Resp: 6140
Ion Ratio Lower Upper
112 100
64 52.2 42.6 63.8
63 27.2 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: 0.305 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

Instrument :

BNA_N

ClientSampleId :

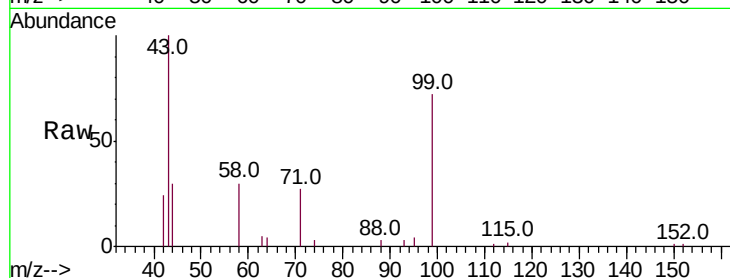
Tot Ion: 99 Resp: 8245

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

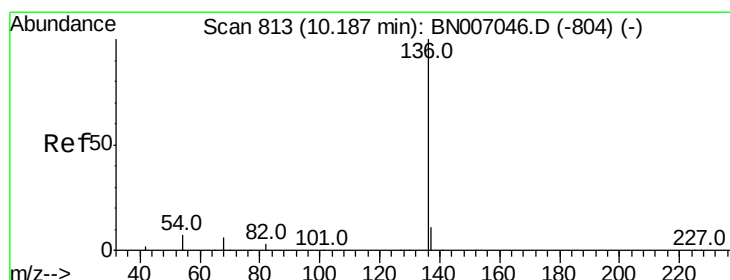
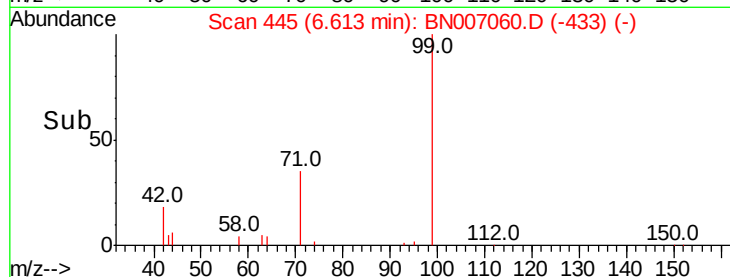
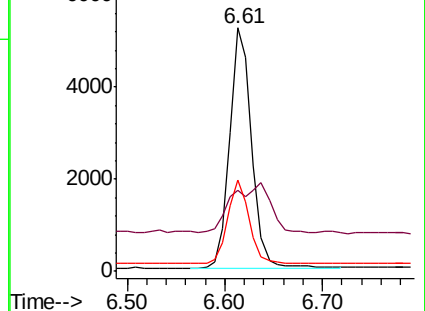
71 33.7 27.0 40.4



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: BN007060.D

Acq: 10 Aug 2019 22:22

Tgt Ion: 136 Resp: 34866

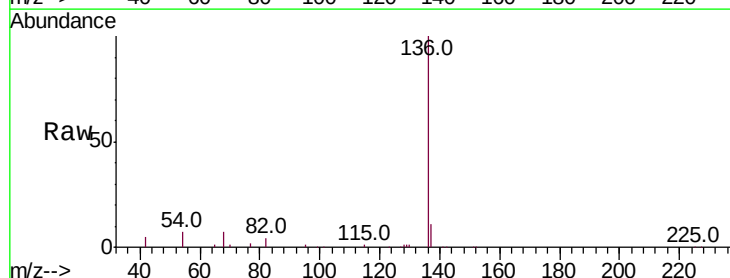
Ion Ratio Lower Upper

136 100

137 11.4 9.4 14.0

54 7.2 6.6 9.8

68 6.6 6.0 9.0

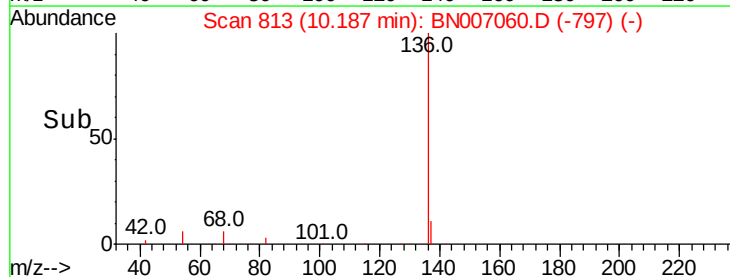
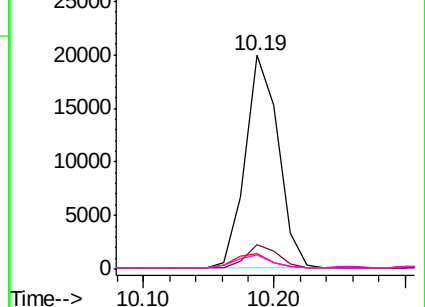


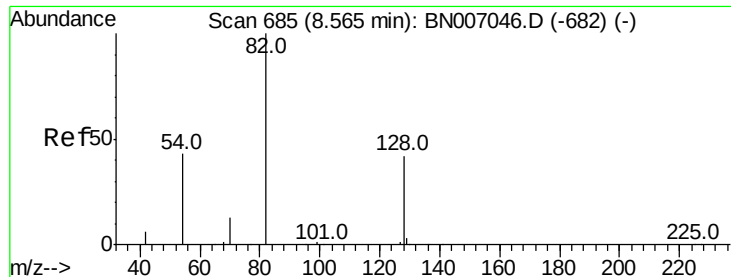
Abundance Ion 136.00 (135.70 to 136.70): BN007046.D (-804) (-)

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: 0.224 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

Instrument :

BNA_N

ClientSampleId :

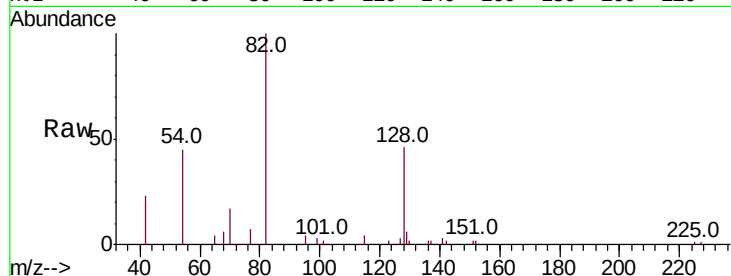
Tot Ion: 82 Resp: 6288

Ion Ratio Lower Upper

82 100

128 45.6 34.6 51.8

54 44.5 36.2 54.4



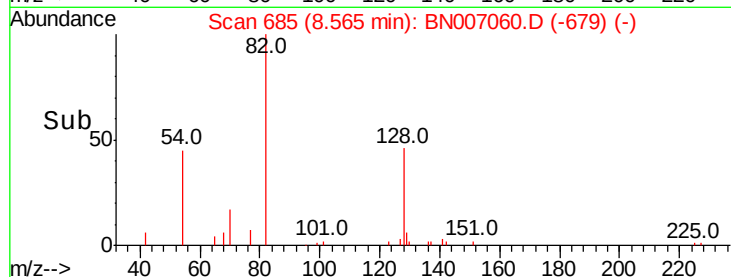
Abundance Ion 82.00 (81.70 to 82.70): BN007046.D (-682) (-)

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

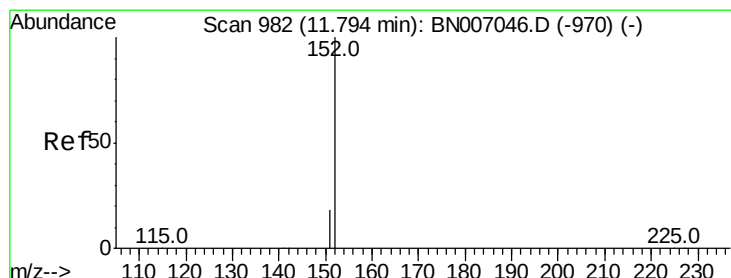
Ion 54.00 (53.70 to 54.70): BN007046.D (-682) (-)

8.56

Time-->



Time-->



#10

2-Methylnaphthalene-d10

Concen: 0.232 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007060.D

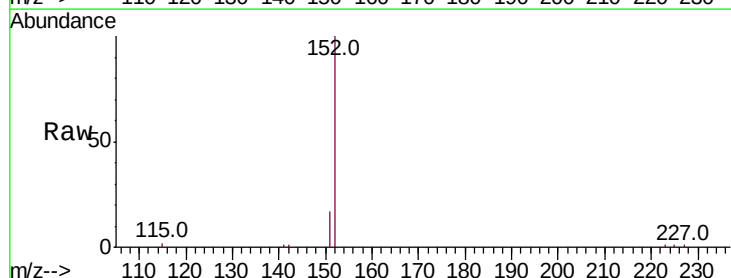
Acq: 10 Aug 2019 22:22

Tgt Ion: 152 Resp: 15110

Ion Ratio Lower Upper

152 100

151 19.2 15.5 23.3

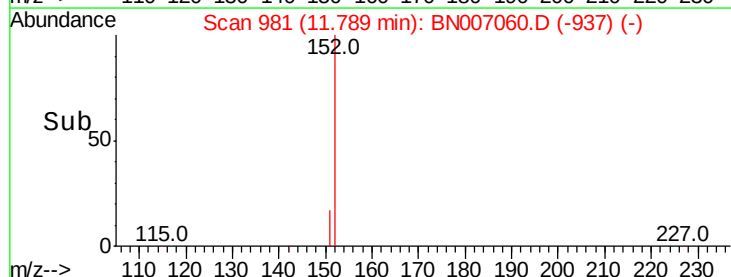


Abundance Ion 152.00 (151.70 to 152.70): BN007046.D (-970) (-)

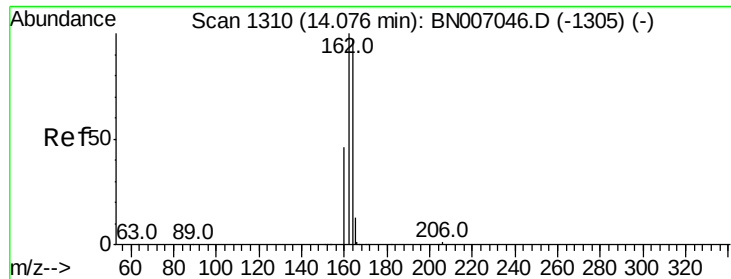
Ion 151.00 (150.70 to 151.70): BN007046.D (-970) (-)

11.79

Time-->



Time-->



#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

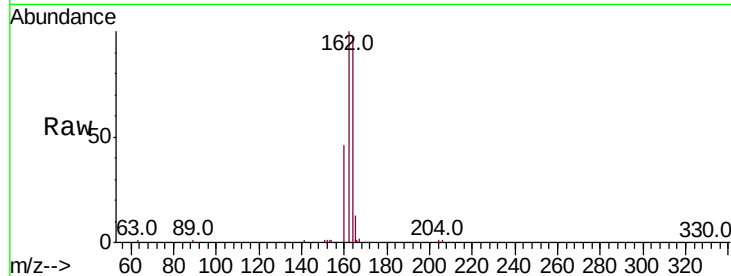
Instrument :

BNA_N

ClientSampleId :

Tot Ion:164 Resp: 20083

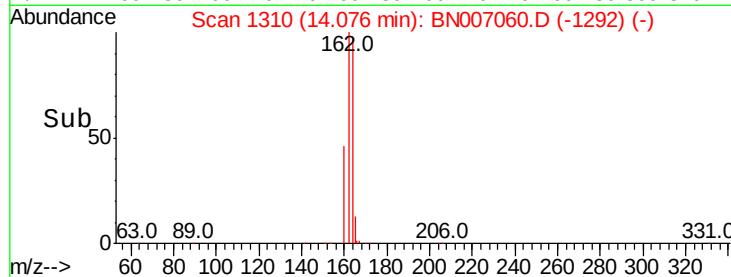
Ion	Ratio	Lower	Upper
164	100		
162	103.6	82.2	123.4
160	48.2	38.3	57.5



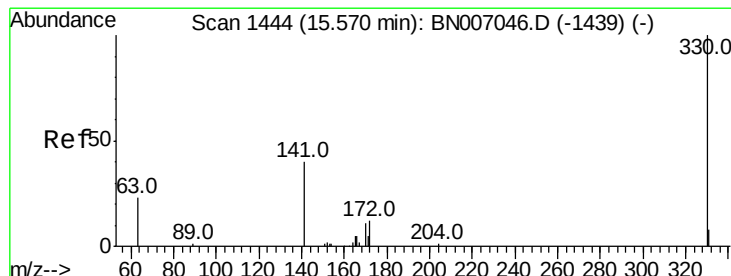
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



Time-->



#13

2,4,6-Tribromophenol

Concen: 0.184 ng

RT: 15.57 min Scan# 1444

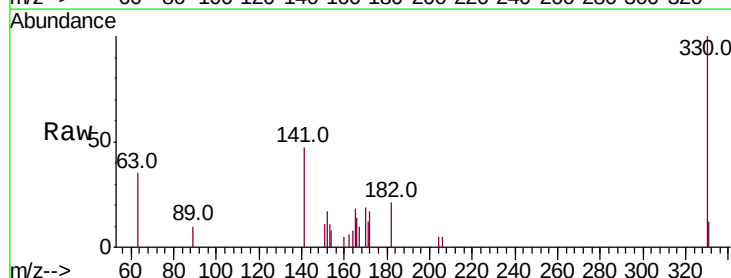
Delta R.T. -0.00 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

Tgt Ion:330 Resp: 1987

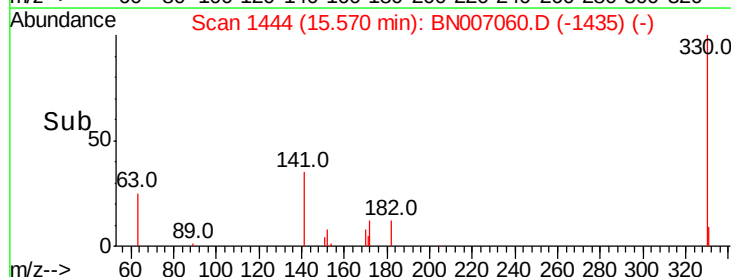
Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	45.0	33.6	50.4



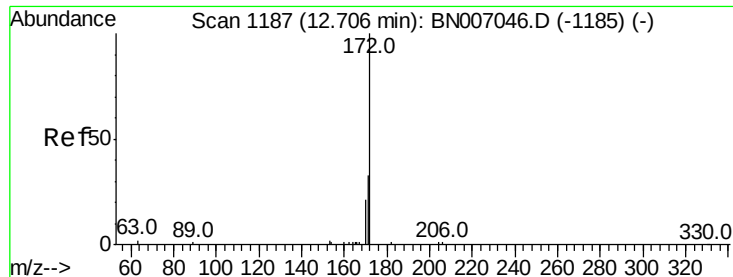
Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



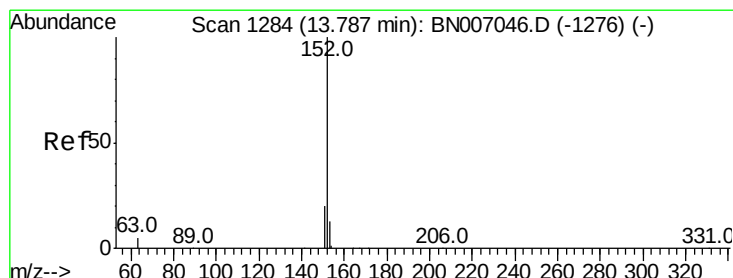
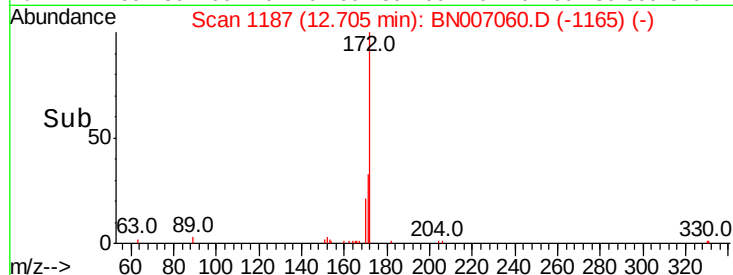
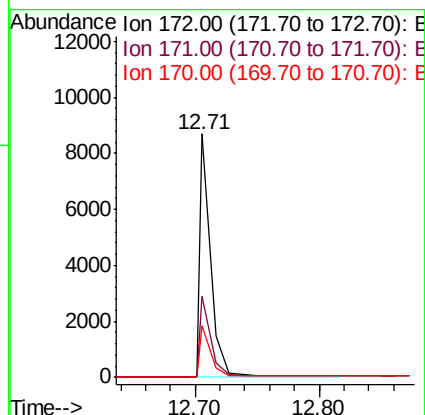
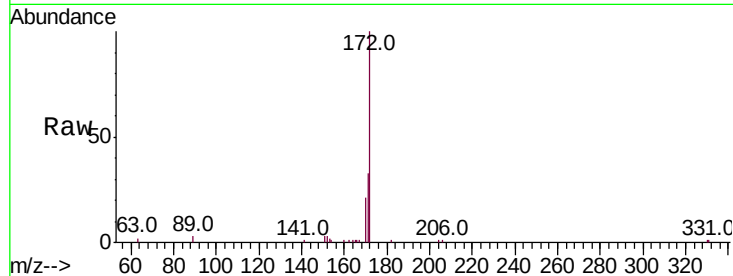
Time-->



#14
2-Fluorobiphenyl
Concen: 0.224 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007060.D
Acq: 10 Aug 2019 22:22

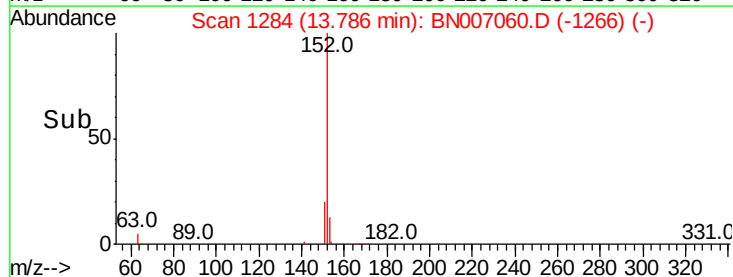
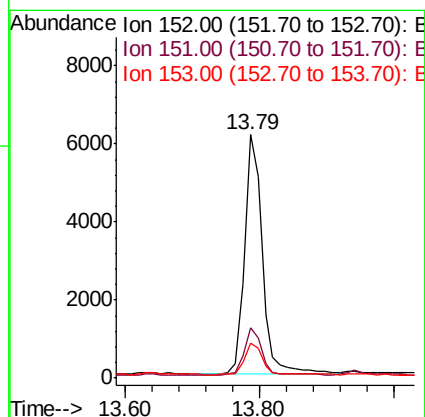
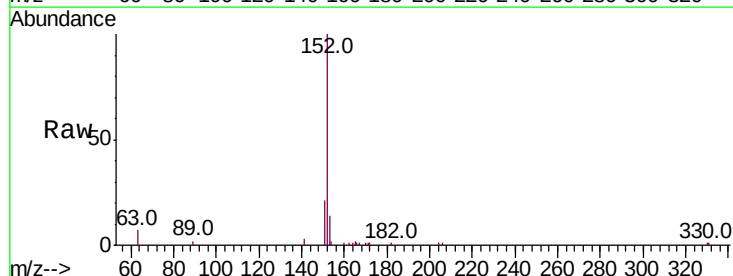
Instrument :
BNA_N
ClientSampleId :

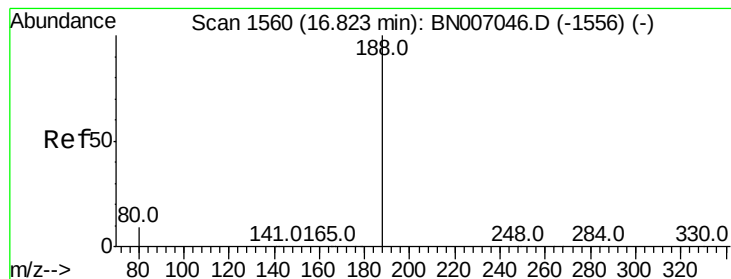
Tot Ion:172 Resp: 6534
Ion Ratio Lower Upper
172 100
171 33.1 26.3 39.5
170 21.1 17.0 25.4



#15
Acenaphthylene
Concen: 0.106 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007060.D
Acq: 10 Aug 2019 22:22

Tgt Ion:152 Resp: 11126
Ion Ratio Lower Upper
152 100
151 20.1 15.8 23.6
153 13.9 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: BN007060.D

Acq: 10 Aug 2019 22:22

Instrument :

BNA_N

ClientSampleId :

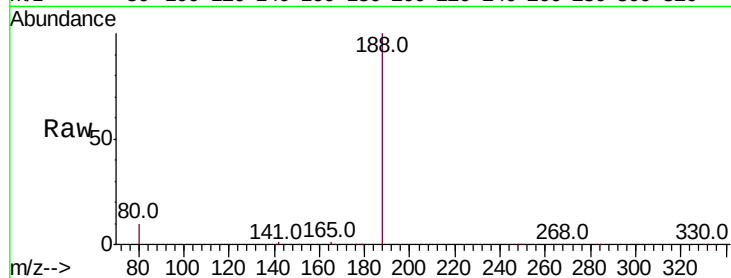
Tot Ion:188 Resp: 49970

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

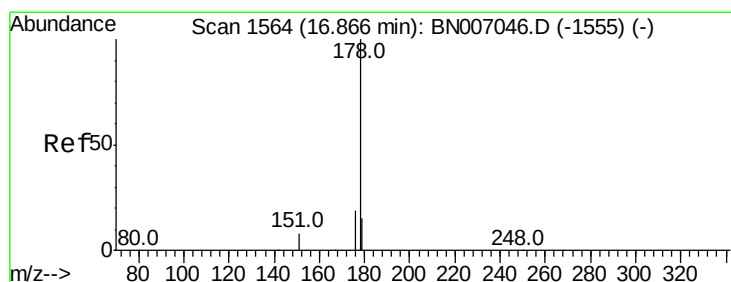
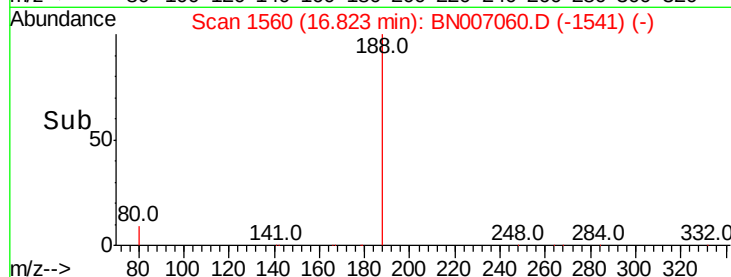
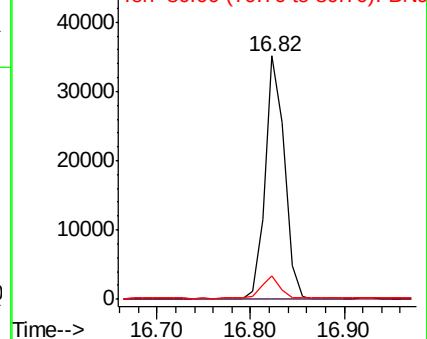
80 9.5 7.8 11.6



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: 0.257 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

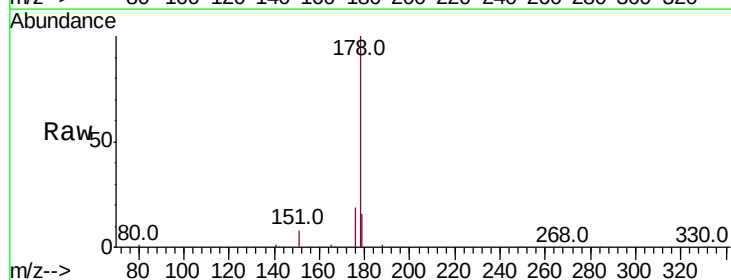
Tgt Ion:178 Resp: 38556

Ion Ratio Lower Upper

178 100

176 19.2 15.2 22.8

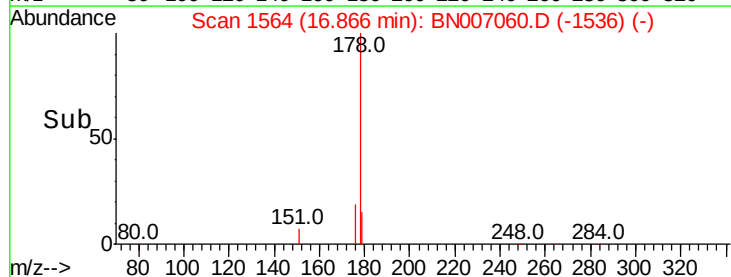
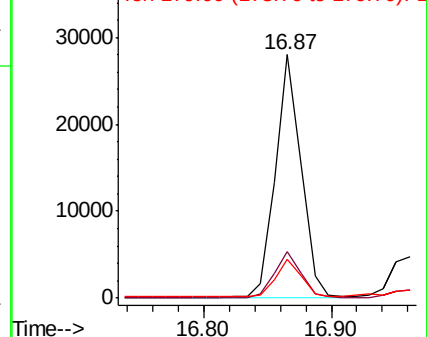
179 15.7 12.3 18.5

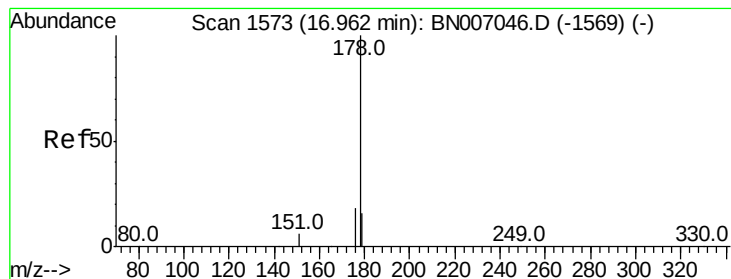


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 0.052 ng

RT: 16.96 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

Instrument :

BNA_N

ClientSampleId :

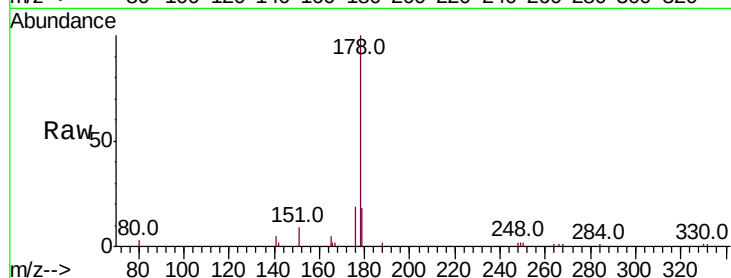
Tot Ion:178 Resp: 7157

Ion Ratio Lower Upper

178 100

176 18.4 14.6 21.8

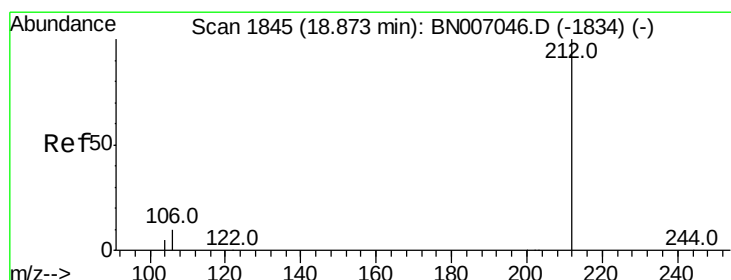
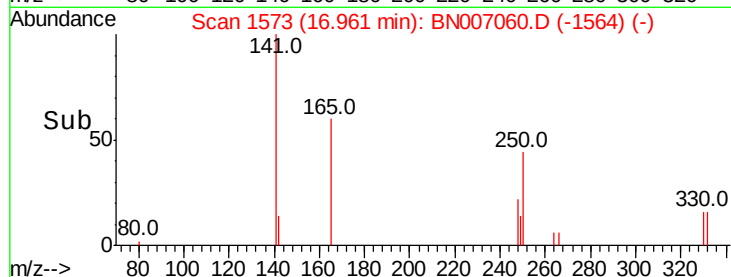
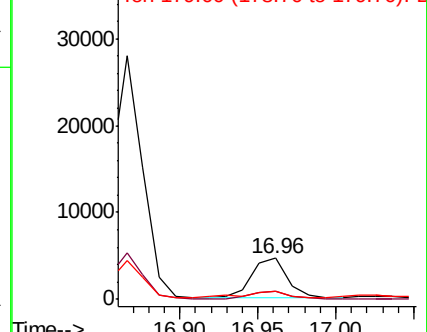
179 18.8 12.5 18.7#



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: 0.229 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

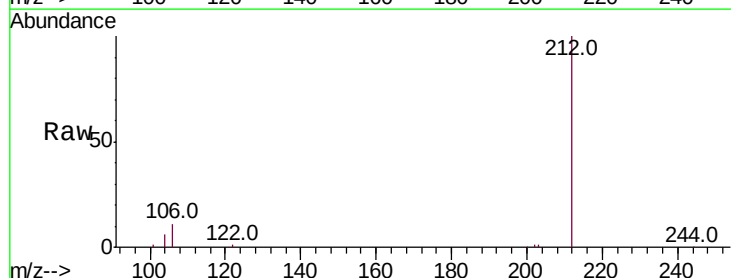
Tgt Ion:212 Resp: 40638

Ion Ratio Lower Upper

212 100

106 10.1 8.2 12.2

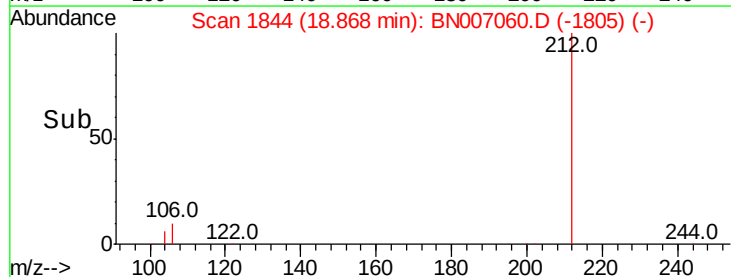
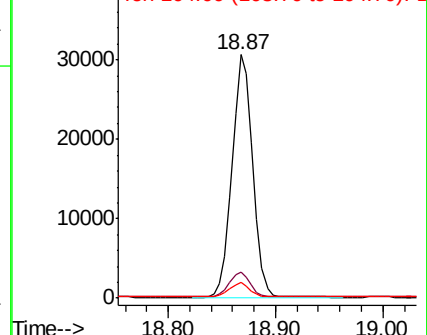
104 5.7 4.5 6.7

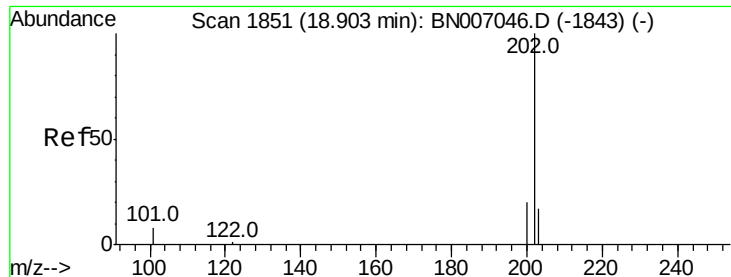


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 0.385 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

Instrument :

BNA_N

ClientSampleId :

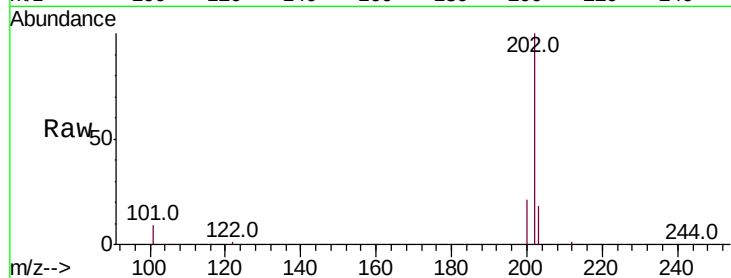
Tot Ion:202 Resp: 73693

Ion Ratio Lower Upper

202 100

101 8.5 7.0 10.4

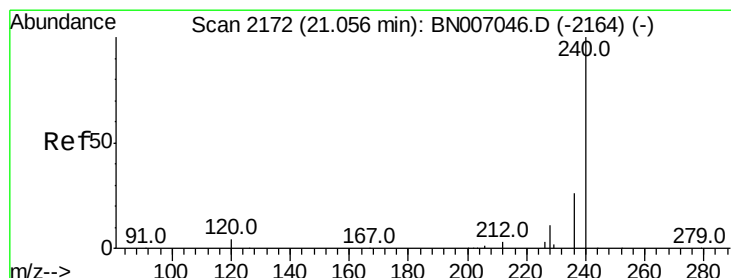
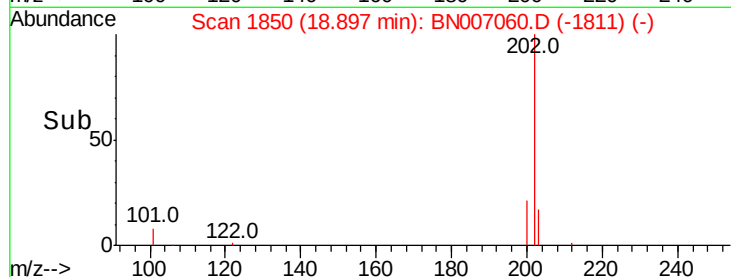
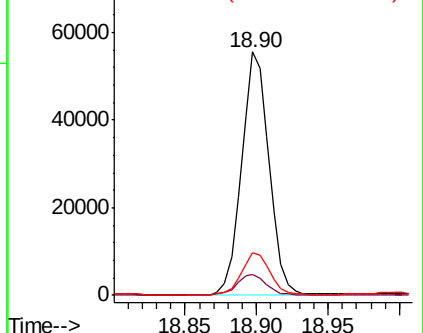
203 17.4 13.8 20.8



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: BN007060.D

Acq: 10 Aug 2019 22:22

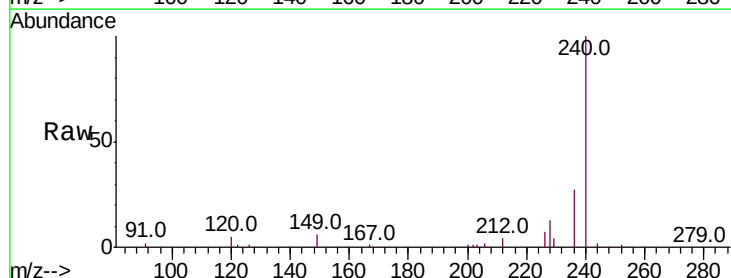
Tgt Ion:240 Resp: 53107

Ion Ratio Lower Upper

240 100

120 5.4 4.0 6.0

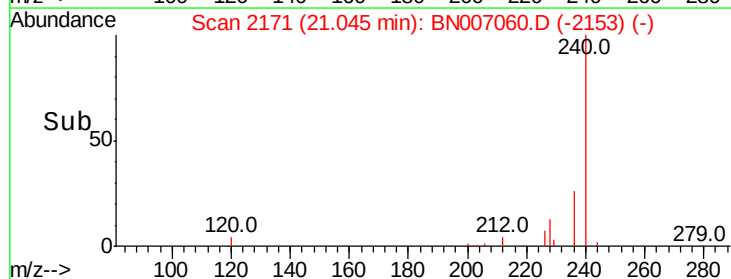
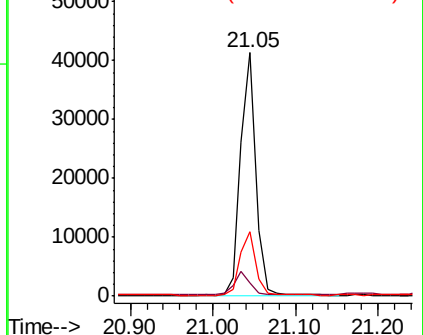
236 26.6 21.3 31.9

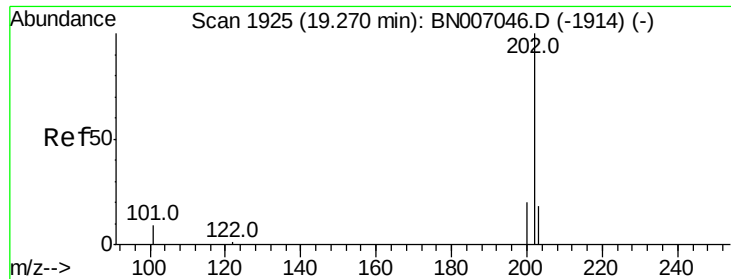


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

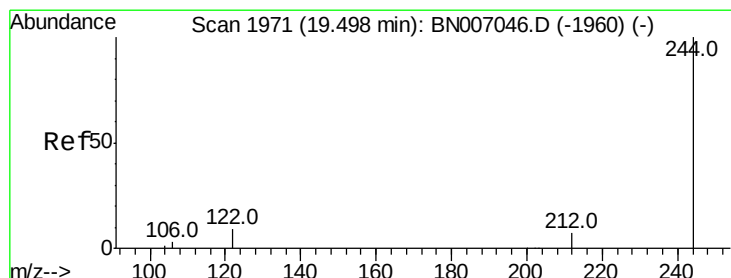
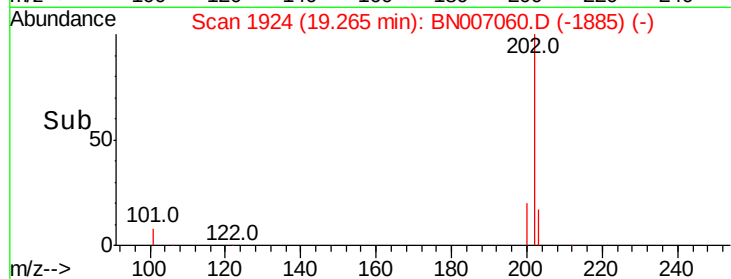
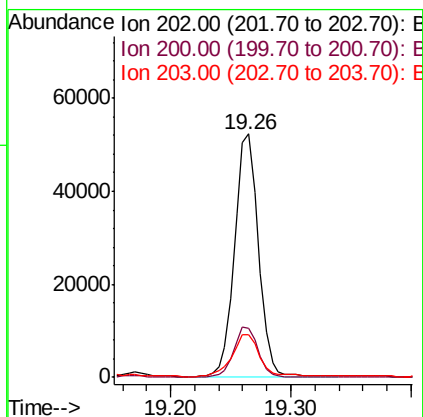
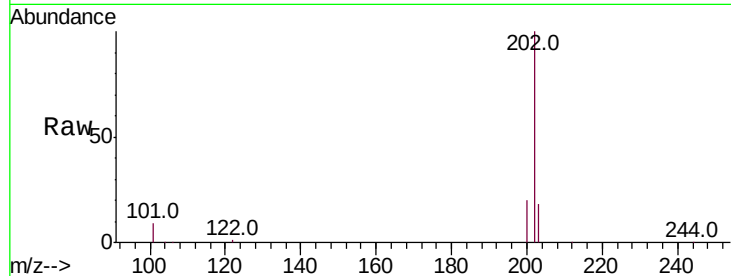




#27
Pvrene
Concen: 0.385 ng
RT: 19.26 min Scan# 1924
Delta R.T. -0.01 min
Lab File: BN007060.D
Acq: 10 Aug 2019 22:22

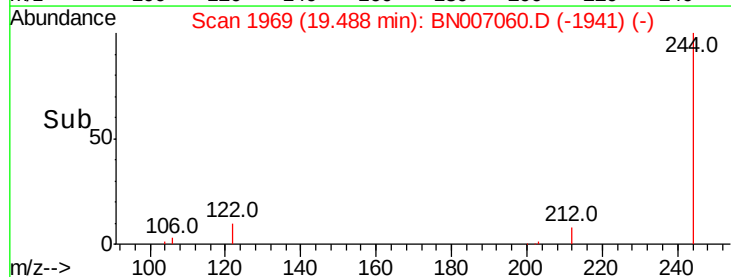
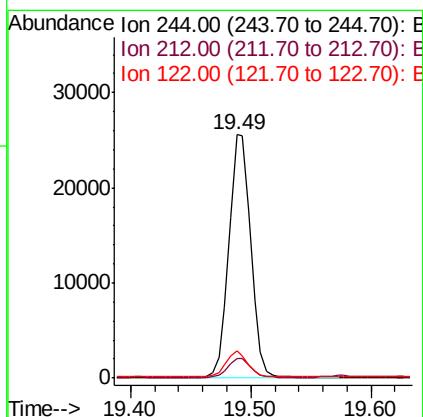
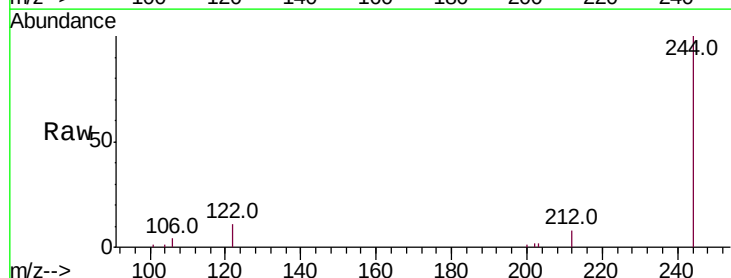
Instrument :
BNA_N
ClientSampleId :

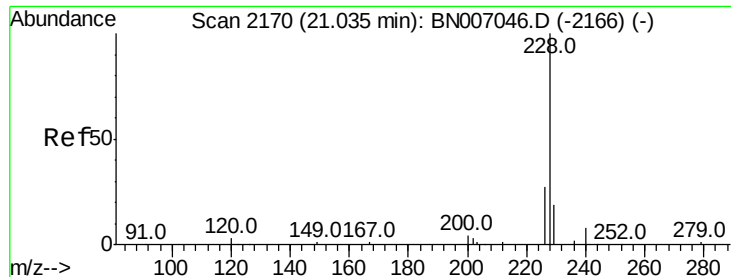
Tot Ion:202 Resp: 71752
Ion Ratio Lower Upper
202 100
200 20.8 16.6 24.8
203 20.2 14.0 21.0



#28
Terphenyl-d14
Concen: 0.221 ng
RT: 19.49 min Scan# 1969
Delta R.T. -0.01 min
Lab File: BN007060.D
Acq: 10 Aug 2019 22:22

Tgt Ion:244 Resp: 31977
Ion Ratio Lower Upper
244 100
212 8.1 6.2 9.2
122 11.2 7.4 11.2





#29

Benzo(a)anthracene

Concen: 0.238 ng

RT: 21.08 min Scan# 2174

Delta R.T. 0.04 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

Instrument :

BNA_N

ClientSampleId :

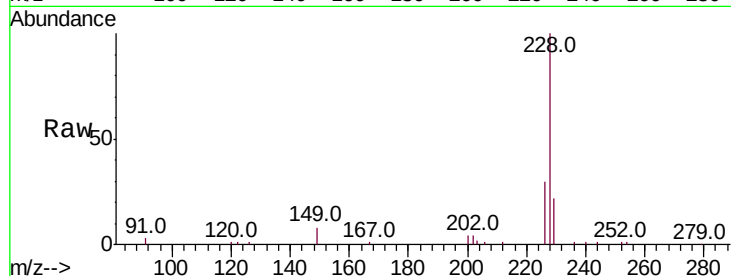
Tot Ion:228 Resp: 46195

Ion Ratio Lower Upper

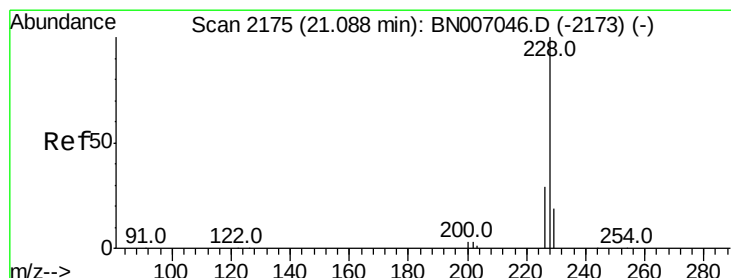
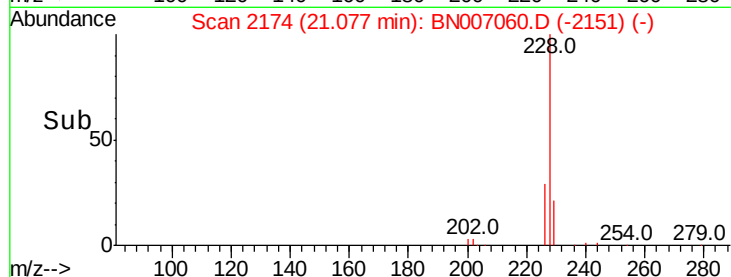
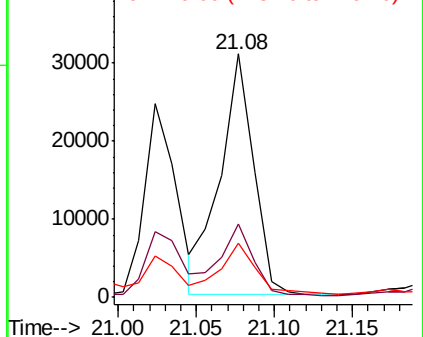
228 100

226 30.3 21.8 32.6

229 22.1 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: 0.244 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

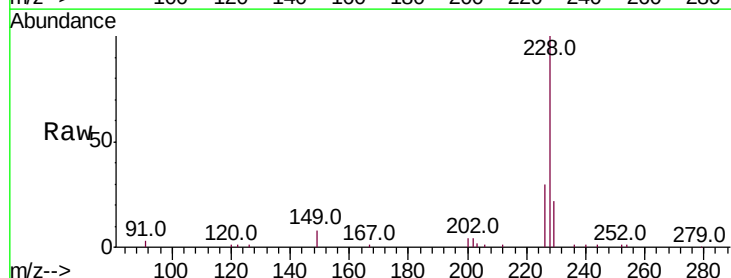
Tgt Ion:228 Resp: 46094

Ion Ratio Lower Upper

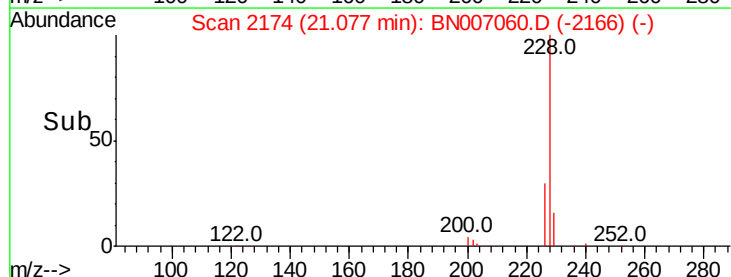
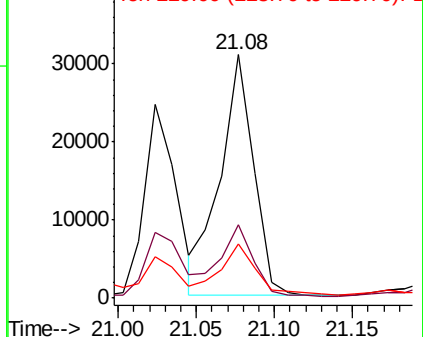
228 100

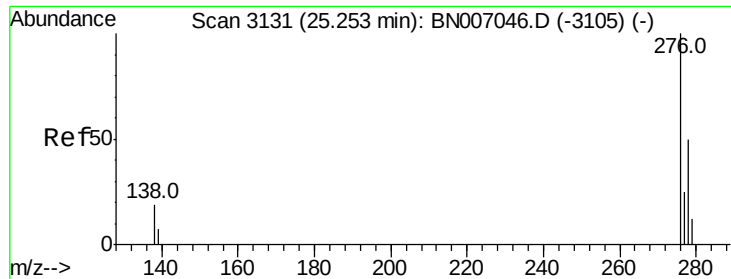
226 30.3 23.8 35.6

229 22.1 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: 0.133 ng

RT: 25.23 min Scan# 3125

Delta R.T. -0.02 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

Instrument :

BNA_N

ClientSampleId :

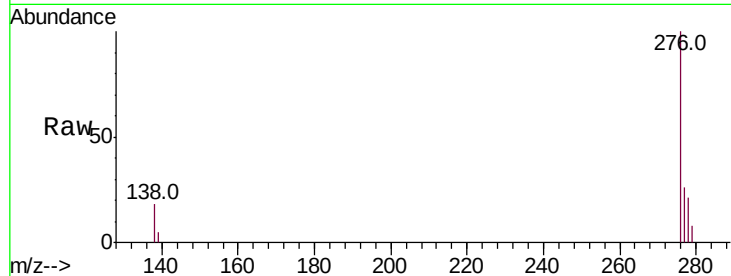
Tot Ion:276 Resp: 27707

Ion Ratio Lower Upper

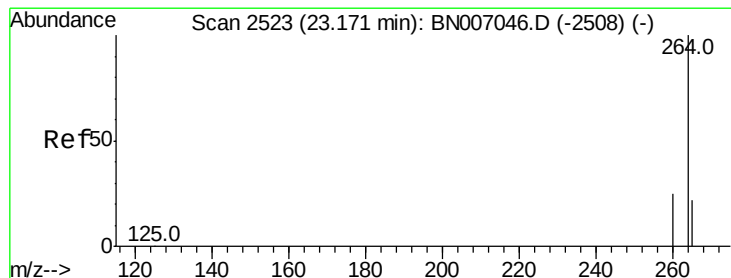
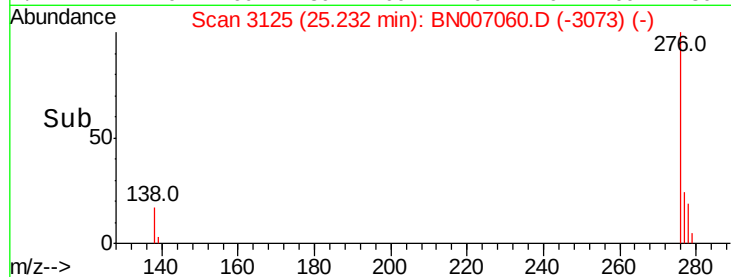
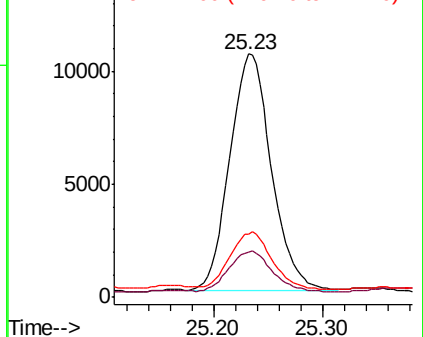
276 100

138 17.5 16.0 24.0

277 24.6 19.9 29.9



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



#32

Perylene-d12

Concen: 0.400 ng

RT: 23.16 min Scan# 2519

Delta R.T. -0.01 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

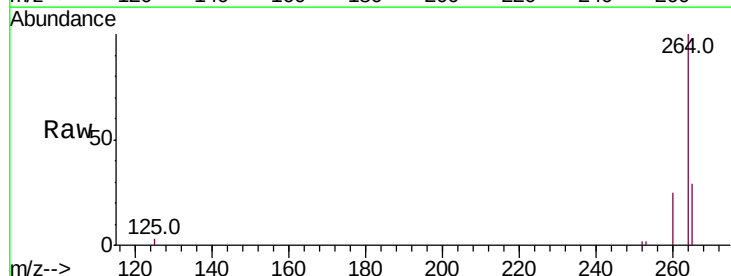
Tgt Ion:264 Resp: 57366

Ion Ratio Lower Upper

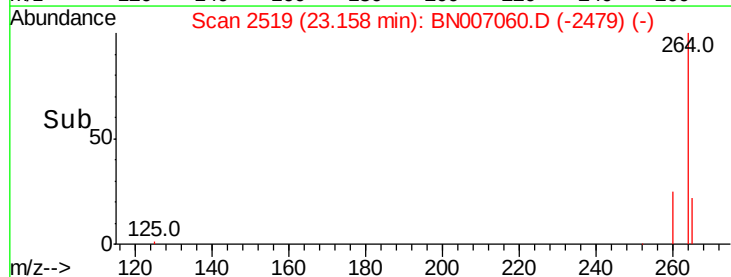
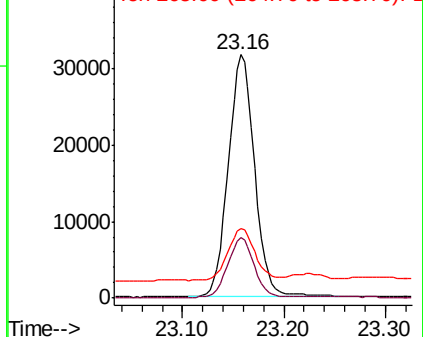
264 100

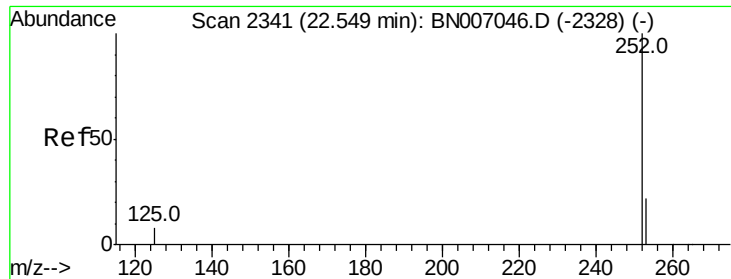
260 24.8 19.8 29.8

265 28.8 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: 0.301 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.01 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

Instrument :

BNA_N

ClientSampleId :

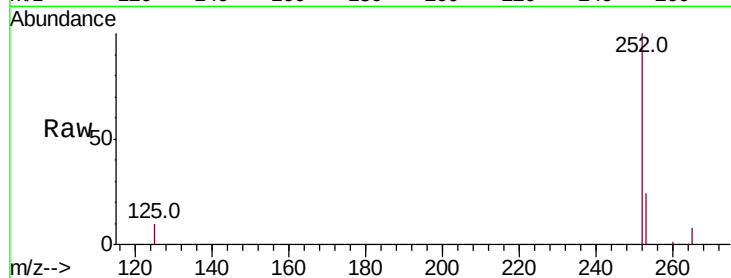
Tot Ion:252 Resp: 59291

Ion Ratio Lower Upper

252 100

253 24.0 18.2 27.2

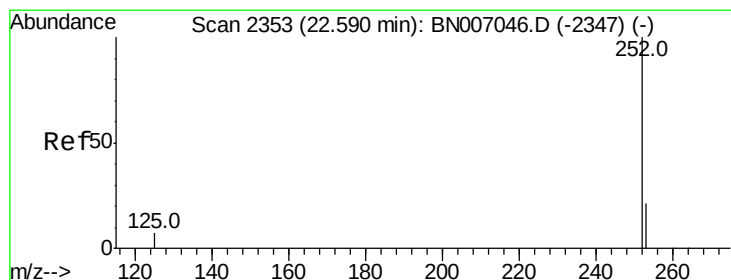
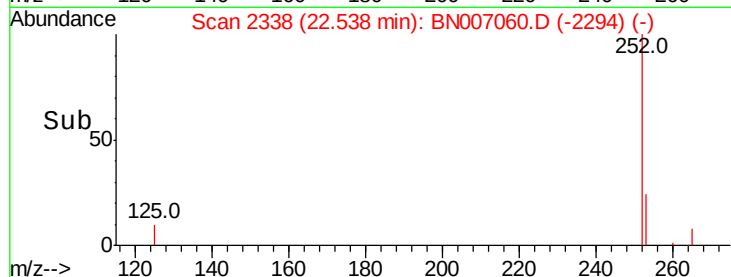
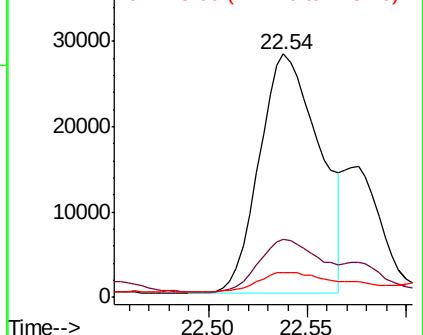
125 10.3 7.4 11.0



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: 0.305 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.05 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

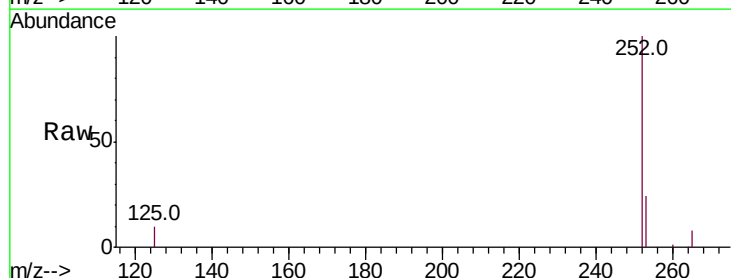
Tgt Ion:252 Resp: 59291

Ion Ratio Lower Upper

252 100

253 24.0 18.1 27.1

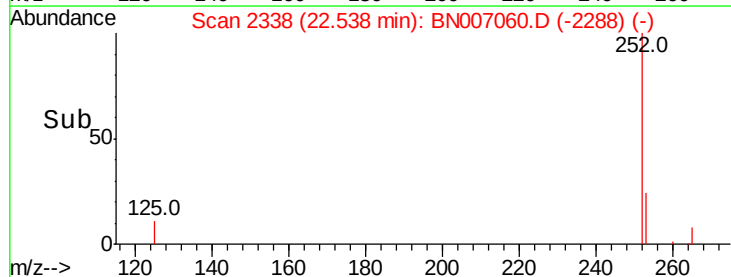
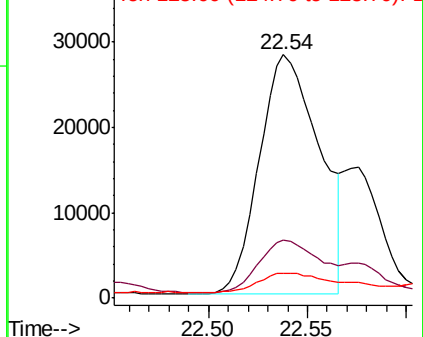
125 10.3 7.4 11.0

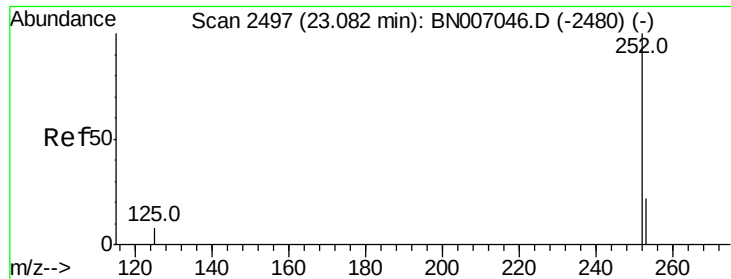


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#35

Benzo(a)pyrene

Concen: 0.202 ng

RT: 23.07 min Scan# 2492

Delta R.T. -0.02 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

Instrument :

BNA_N

ClientSampleId :

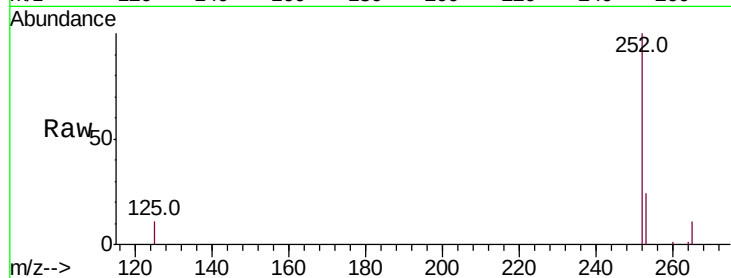
Tot Ion:252 Resp: 36084

Ion Ratio Lower Upper

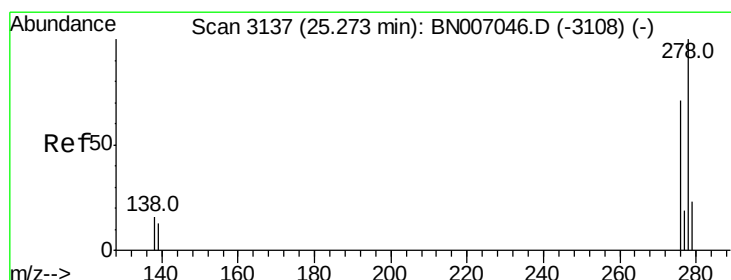
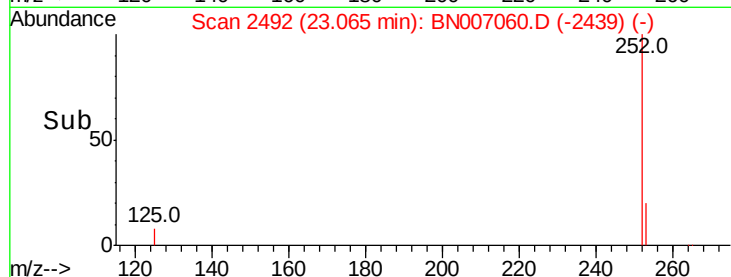
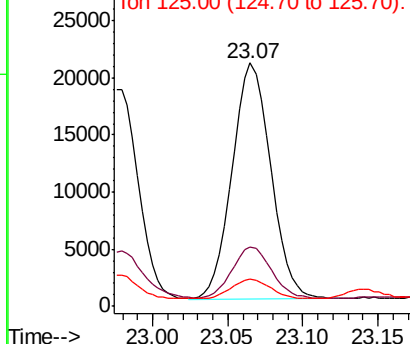
252 100

253 24.4 18.5 27.7

125 11.2 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: 0.042 ng

RT: 25.25 min Scan# 3129

Delta R.T. -0.03 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

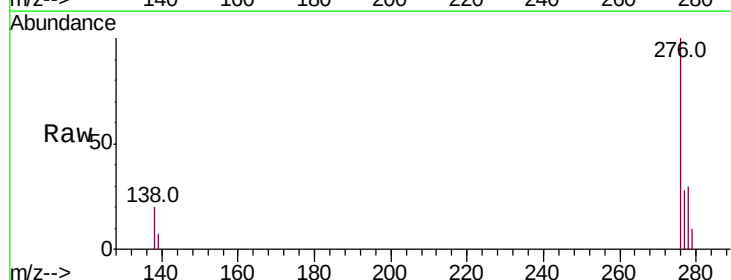
Tgt Ion:278 Resp: 7532

Ion Ratio Lower Upper

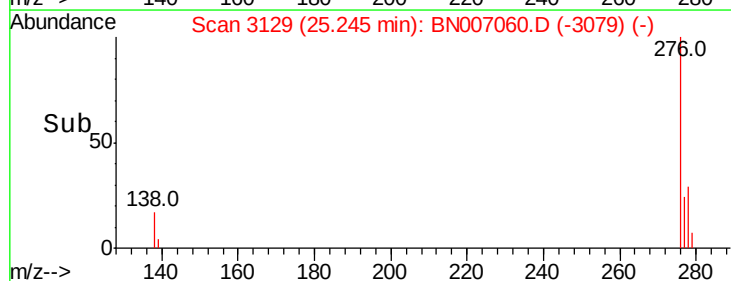
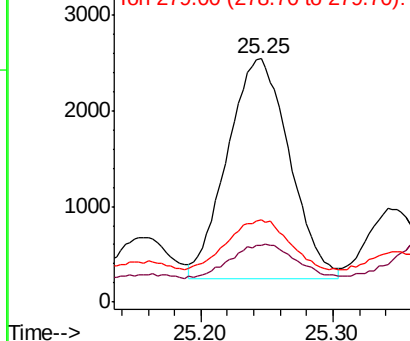
278 100

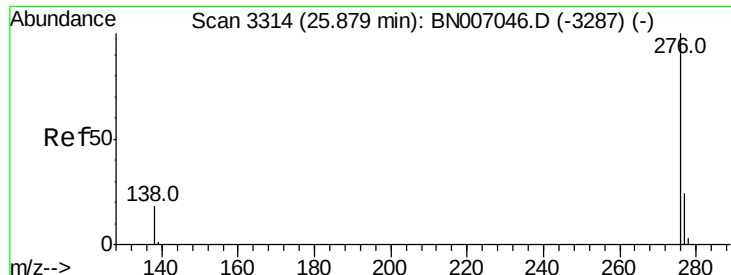
139 23.1 11.3 16.9#

279 33.8 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: 0.162 ng

RT: 25.86 min Scan# 3308

Delta R.T. -0.02 min

Lab File: BN007060.D

Acq: 10 Aug 2019 22:22

Instrument :

BNA_N

ClientSampleId :

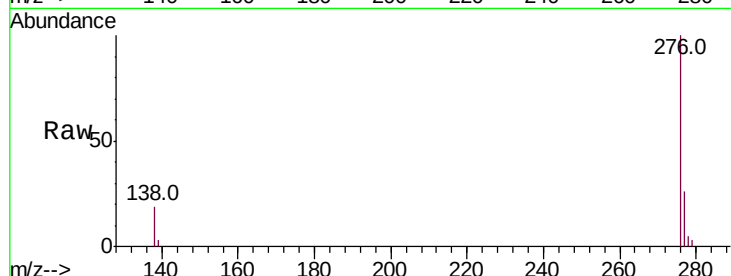
Tot Ion:276 Resp: 29562

Ion Ratio Lower Upper

276 100

277 26.0 19.8 29.8

138 19.4 14.6 22.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

