

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081519\
 Data File : BN007216.D
 Acq On : 16 Aug 2019 02:57
 Operator : HP/JU
 Sample : K4282-14
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 16 07:08:29 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	6923	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	26457	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	15020	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	35352	0.40	ng	0.00
26) Chrysene-d12	21.03	240	34809	0.40	ng	-0.02
32) Perylene-d12	23.15	264	38600	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.05	112	4963	0.30	ng	0.00
4) Phenol-d6	6.61	99	6521	0.32	ng	0.00
7) Nitrobenzene-d5	8.55	82	4720	0.22	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	10617	0.22	ng	-0.01
13) 2,4,6-Tribromophenol	15.57	330	1391	0.17	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	1267	0.06	ng	0.00
24) Fluoranthene-d10	18.86	212	23285	0.19	ng	-0.01
28) Terphenyl-d14	19.48	244	16813	0.18	ng	-0.02

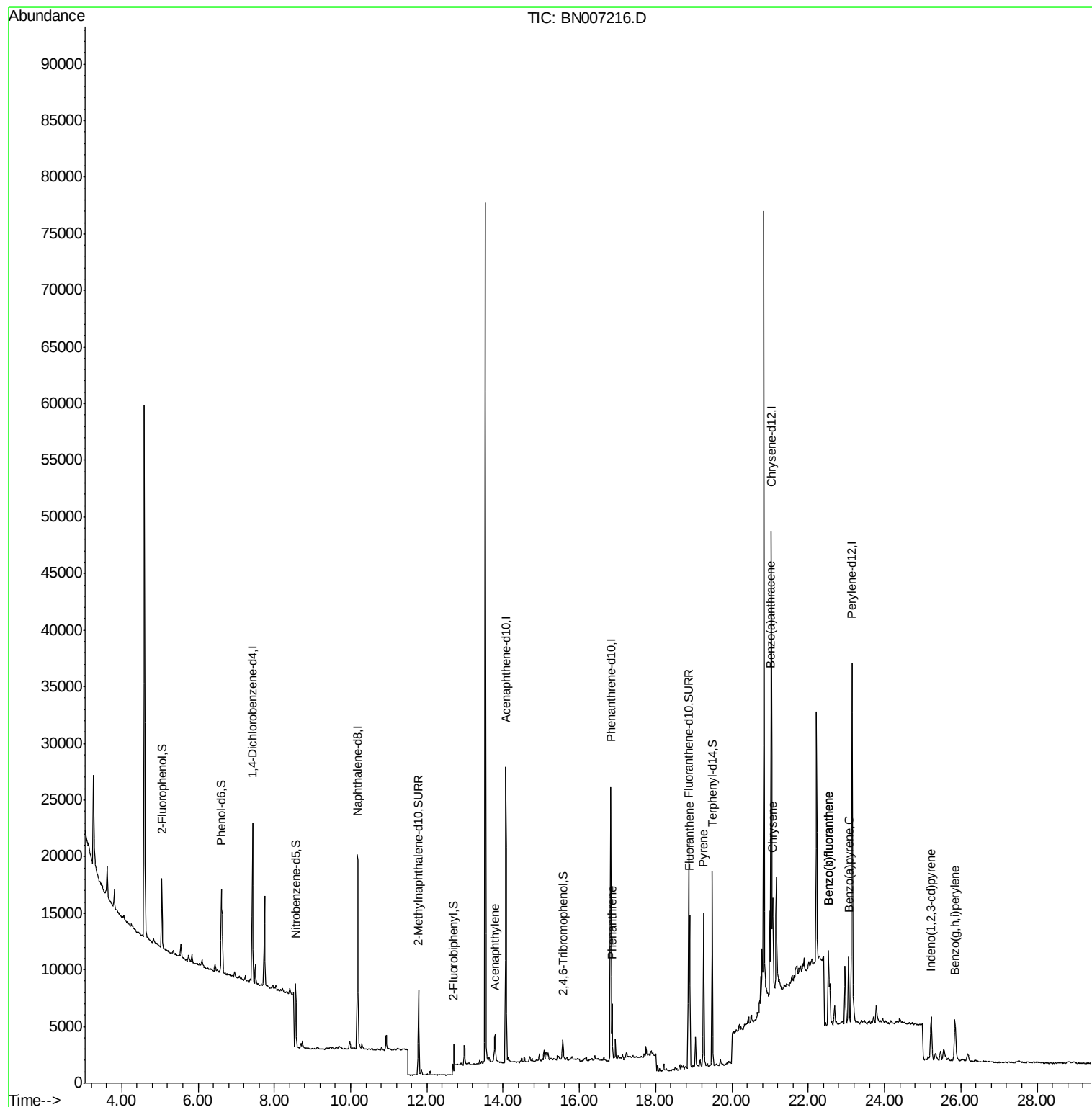
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) Acenaphthylene	13.79	152	5054	0.064	ng	98
22) Phenanthrene	16.86	178	5487	0.052	ng	96
25) Fluoranthene	18.89	202	12220	0.090	ng	99
27) Pyrene	19.26	202	13037	0.107	ng	# 94
29) Benzo(a)anthracene	21.02	228	7765	0.061	ng	# 49
30) Chrysene	21.07	228	8023	0.065	ng	# 87
31) Indeno(1,2,3-cd)pyrene	25.22	276	5882	0.043	ng	99
33) Benzo(b)fluoranthene	22.53	252	10635	0.080	ng	# 73
34) Benzo(k)fluoranthene	22.53	252	10635	0.081	ng	# 73
35) Benzo(a)pyrene	23.06	252	7545	0.063	ng	# 70
37) Benzo(a,h,i)perylene	25.85	276	7519	0.061	ng	# 80

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

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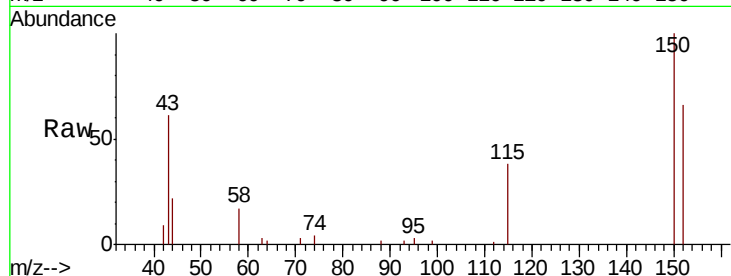


#1

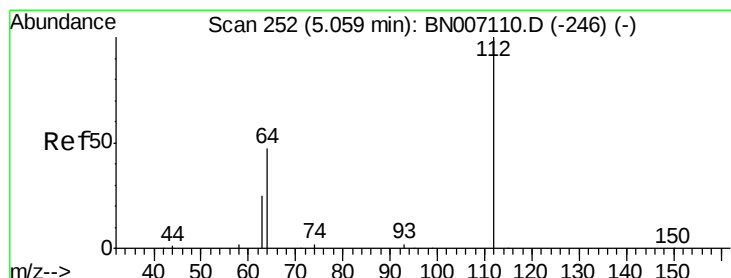
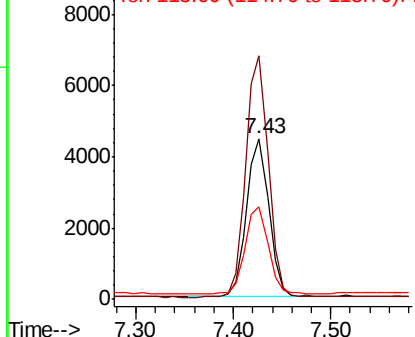
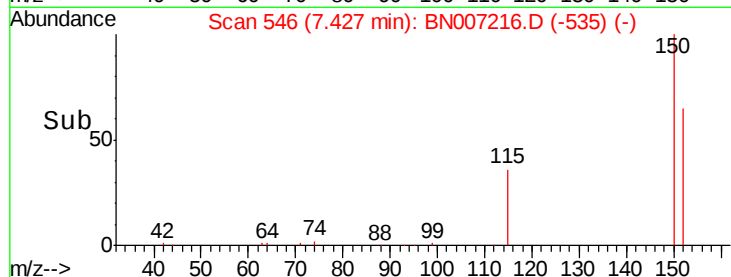
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007216.D
Acq: 16 Aug 2019 02:57

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 6923
Ion Ratio Lower Upper
152 100
150 151.4 121.7 182.5
115 57.2 46.2 69.4



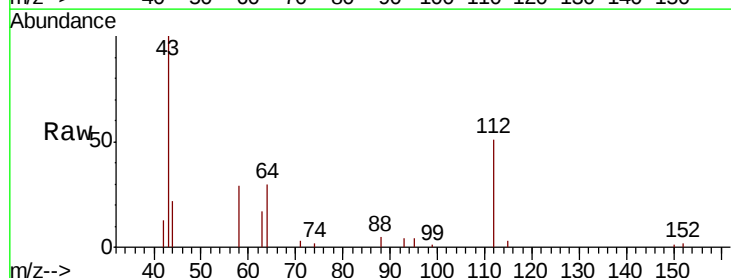
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



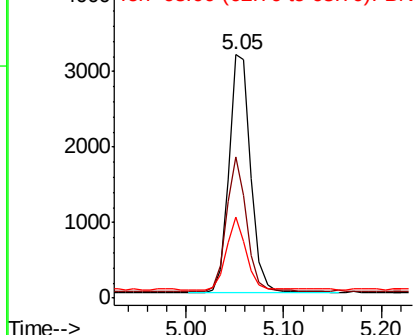
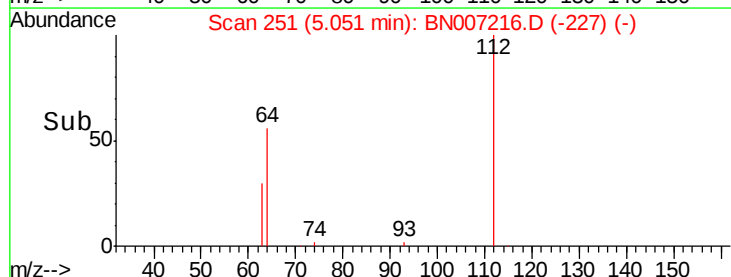
#3

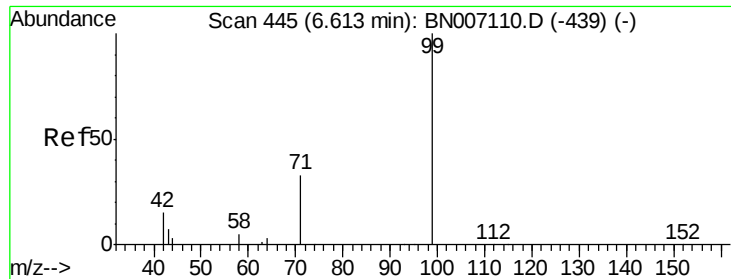
2-Fluorophenol
Concen: 0.298 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007216.D
Acq: 16 Aug 2019 02:57

Tgt Ion:112 Resp: 4963
Ion Ratio Lower Upper
112 100
64 52.5 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: 0.316 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007216.D

Acq: 16 Aug 2019 02:57

Instrument :

BNA_N

ClientSampleId :

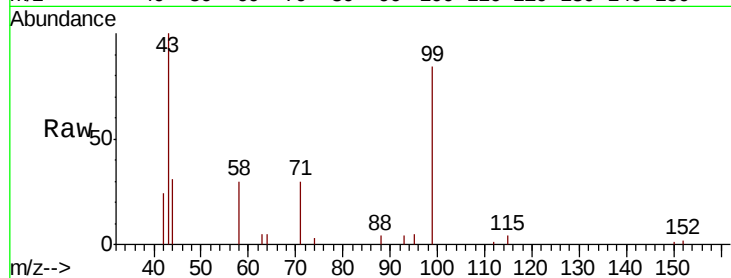
Tot Ion: 99 Resp: 6521

Ion Ratio Lower Upper

99 100

42 22.3 15.8 23.6

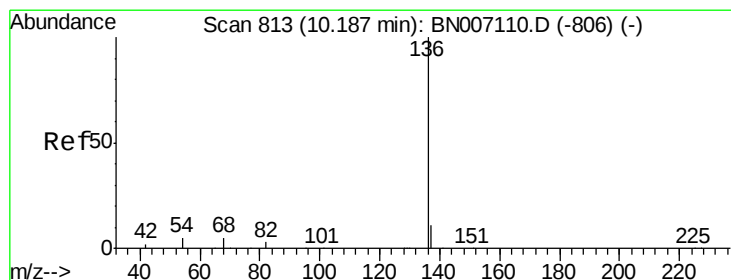
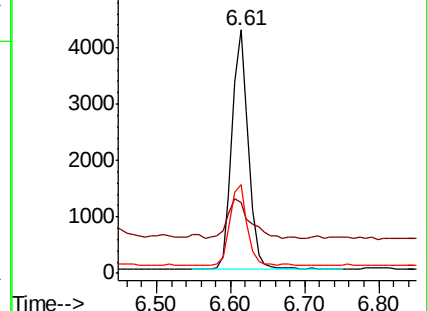
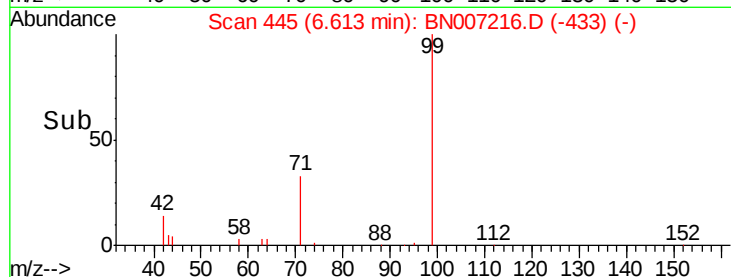
71 34.2 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007216.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007216.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007216.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007216.D

Acq: 16 Aug 2019 02:57

Tgt Ion: 136 Resp: 26457

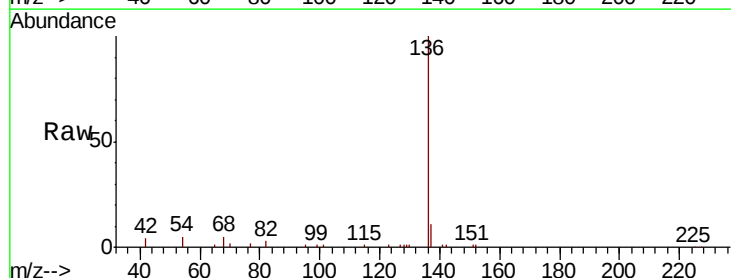
Ion Ratio Lower Upper

136 100

137 11.4 9.4 14.0

54 4.5 6.6 9.8#

68 4.6 6.0 9.0#

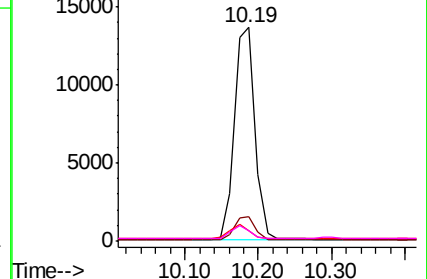
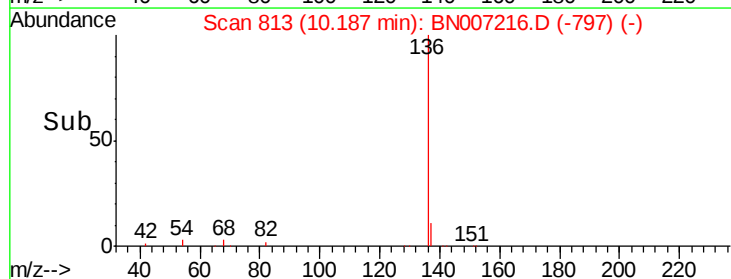


Abundance Ion 136.00 (135.70 to 136.70): BN007216.D (-797) (-)

Ion 137.00 (136.70 to 137.70): BN007216.D (-797) (-)

Ion 54.00 (53.70 to 54.70): BN007216.D (-797) (-)

Ion 68.00 (67.70 to 68.70): BN007216.D (-797) (-)





#7

Nitrobenzene-d5

Concen: 0.221 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007216.D

Acq: 16 Aug 2019 02:57

Instrument :

BNA_N

ClientSampleId :

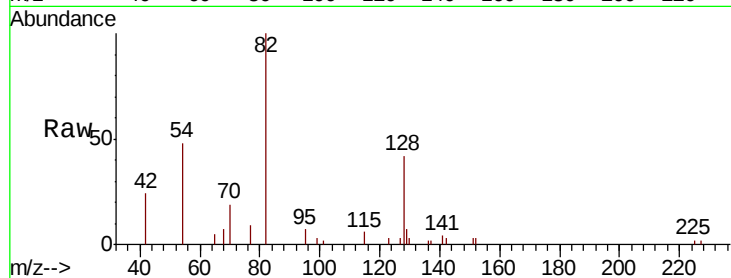
Tot Ion: 82 Resp: 4720

Ion Ratio Lower Upper

82 100

128 41.8 34.6 51.8

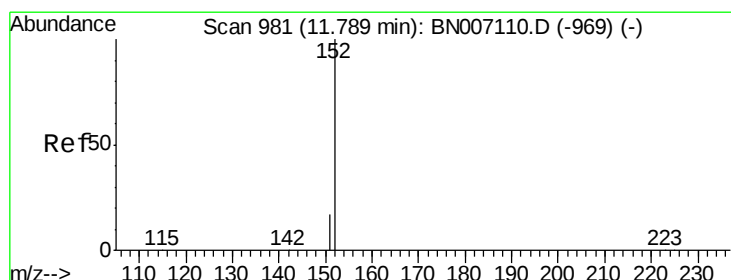
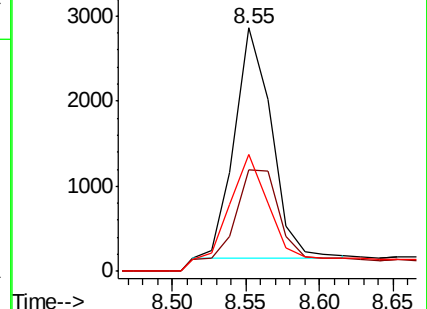
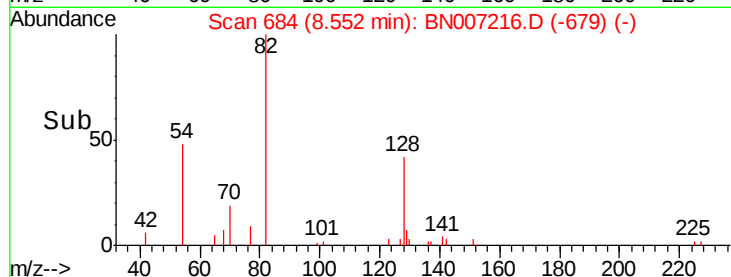
54 48.2 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007216.D (-679) (-)

Ion 128.00 (127.70 to 128.70): BN007216.D (-679) (-)

Ion 54.00 (53.70 to 54.70): BN007216.D (-679) (-)



#10

2-Methylnaphthalene-d10

Concen: 0.215 ng

RT: 11.78 min Scan# 979

Delta R.T. -0.01 min

Lab File: BN007216.D

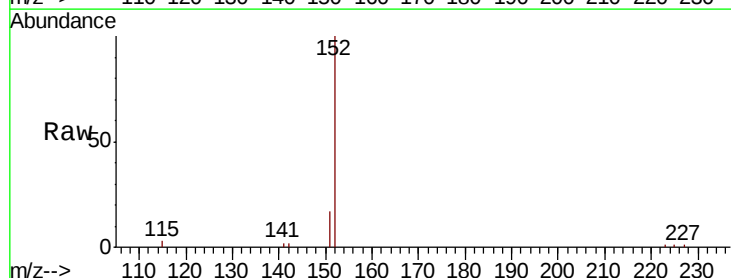
Acq: 16 Aug 2019 02:57

Tgt Ion: 152 Resp: 10617

Ion Ratio Lower Upper

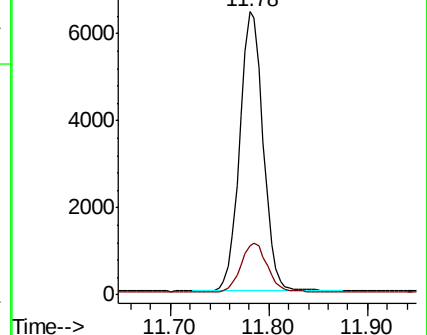
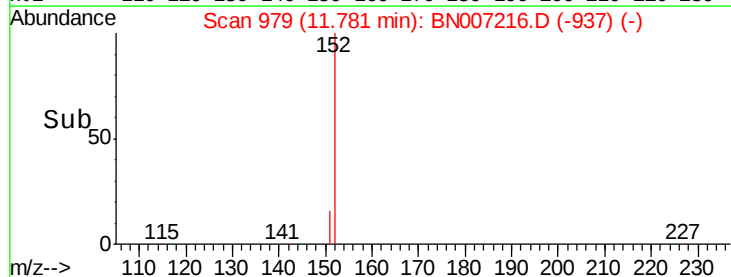
152 100

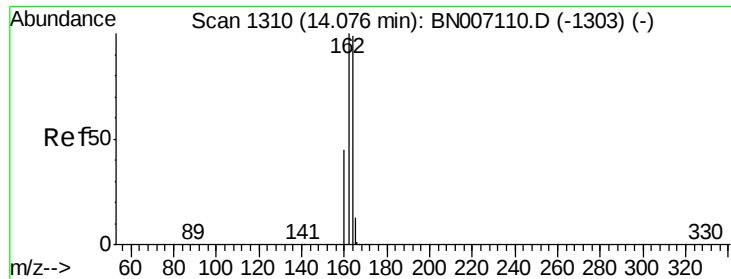
151 19.4 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BN007216.D (-937) (-)

Ion 151.00 (150.70 to 151.70): BN007216.D (-937) (-)





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007216.D

Acq: 16 Aug 2019 02:57

Instrument :

BNA_N

ClientSampled :

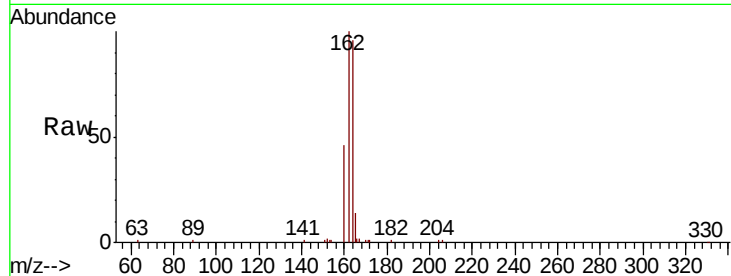
Tot Ion:164 Resp: 15020

Ion Ratio Lower Upper

164 100

162 103.9 82.2 123.4

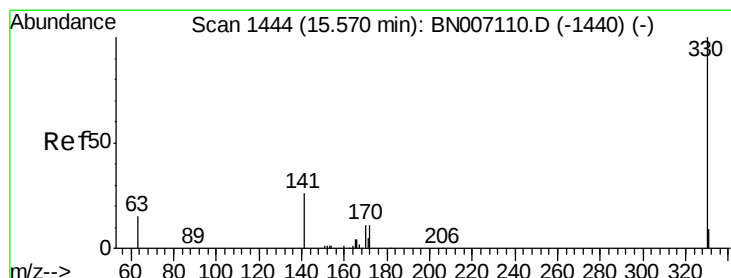
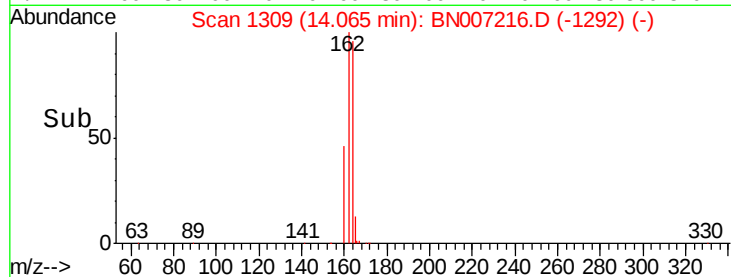
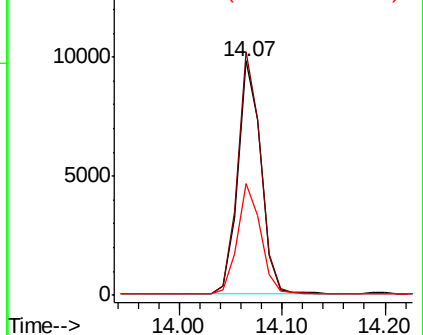
160 47.7 38.3 57.5



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: 0.172 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007216.D

Acq: 16 Aug 2019 02:57

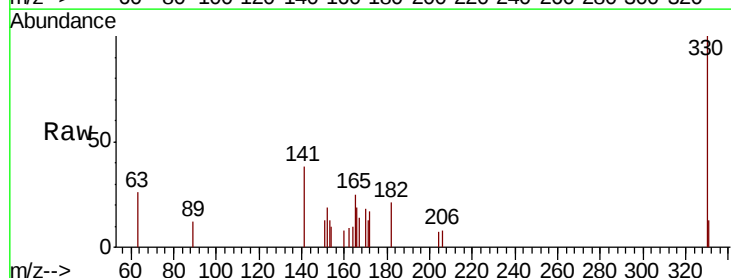
Tgt Ion:330 Resp: 1391

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

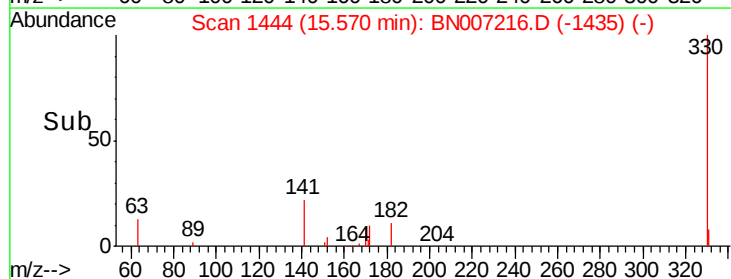
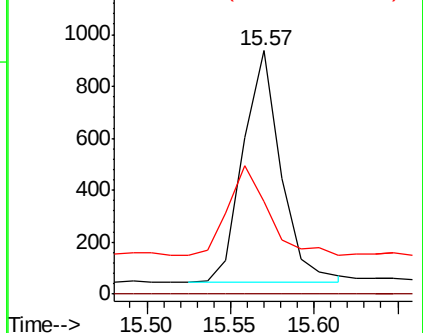
141 41.0 33.6 50.4

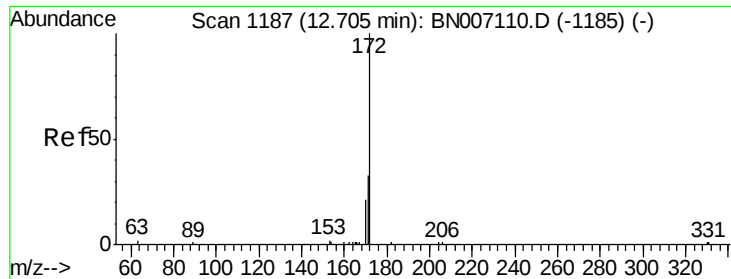


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

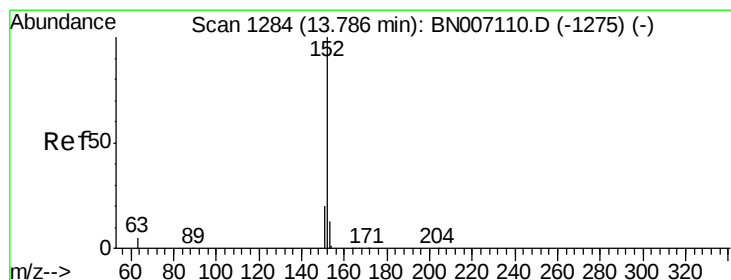
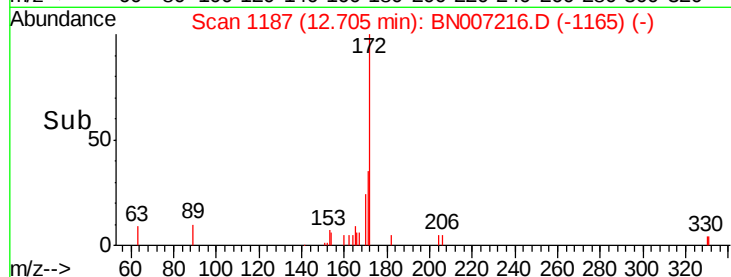
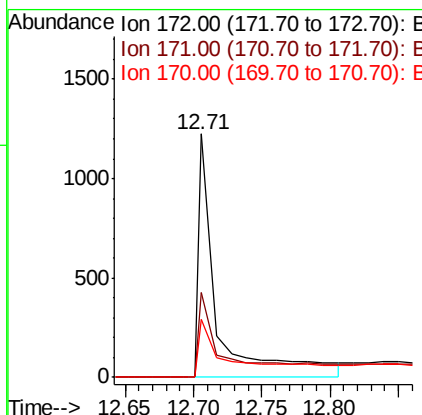
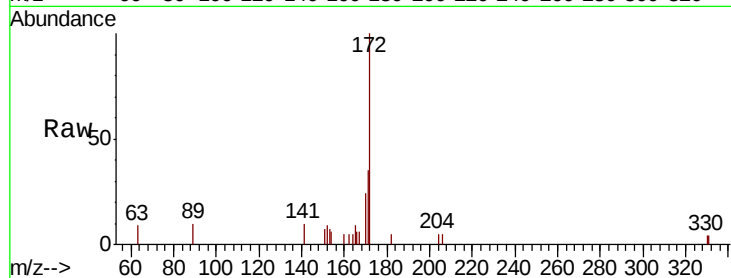




#14
2-Fluorobiphenyl
Concen: 0.058 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007216.D
Acq: 16 Aug 2019 02:57

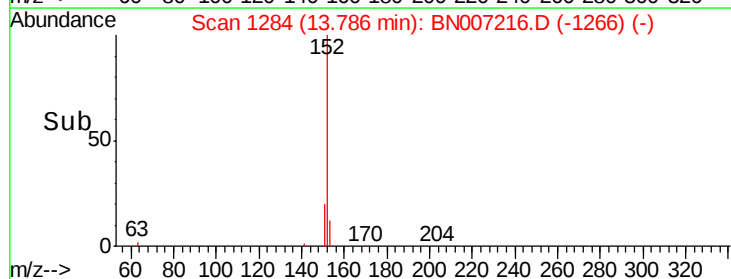
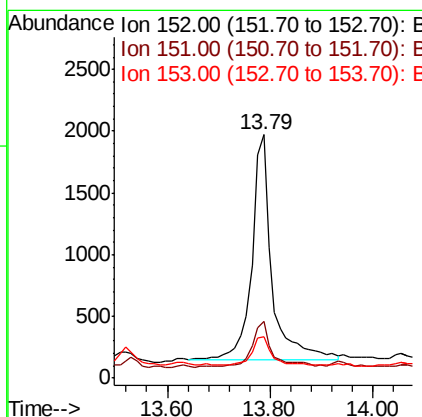
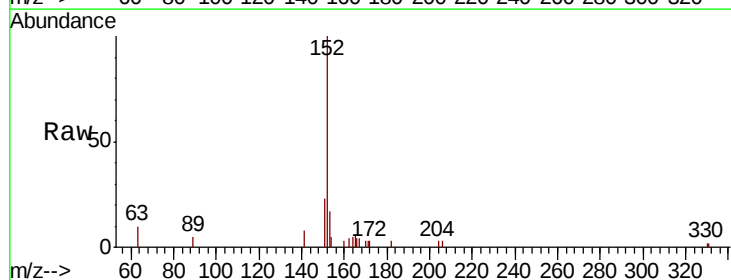
Instrument :
BNA_N
ClientSampleId :

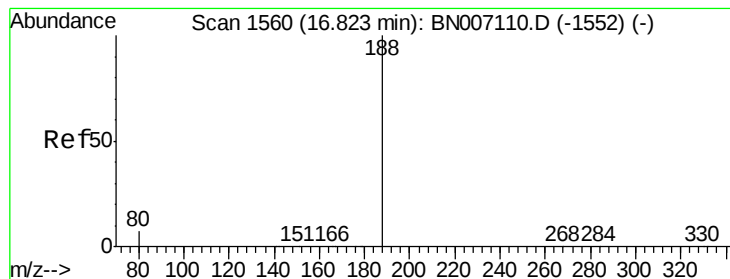
Tot Ion:172 Resp: 1267
Ion Ratio Lower Upper
172 100
171 34.8 26.3 39.5
170 23.8 17.0 25.4



#15
Acenaphthylene
Concen: 0.064 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007216.D
Acq: 16 Aug 2019 02:57

Tgt Ion:152 Resp: 5054
Ion Ratio Lower Upper
152 100
151 19.4 15.8 23.6
153 11.3 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: BN007216.D

Acq: 16 Aug 2019 02:57

Instrument :

BNA_N

ClientSampleId :

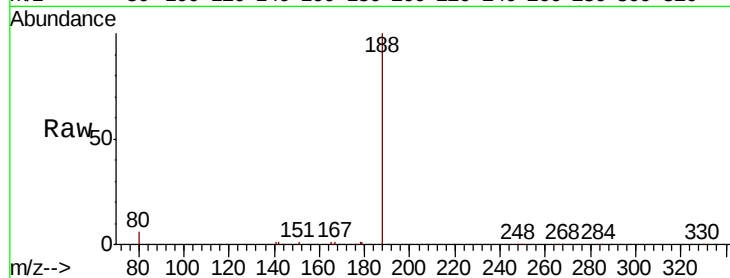
Tot Ion:188 Resp: 35352

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

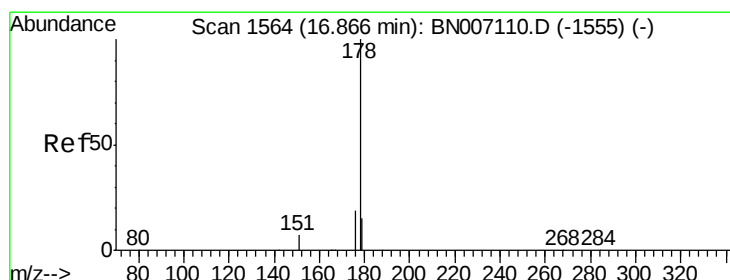
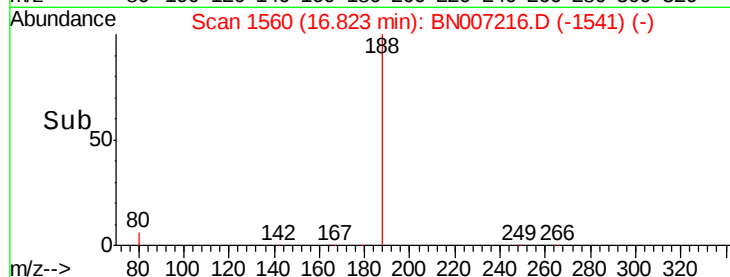
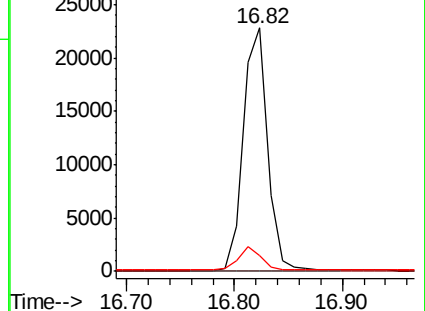
80 6.3 7.8 11.6#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#22

Phenanthrene

Concen: 0.052 ng

RT: 16.86 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BN007216.D

Acq: 16 Aug 2019 02:57

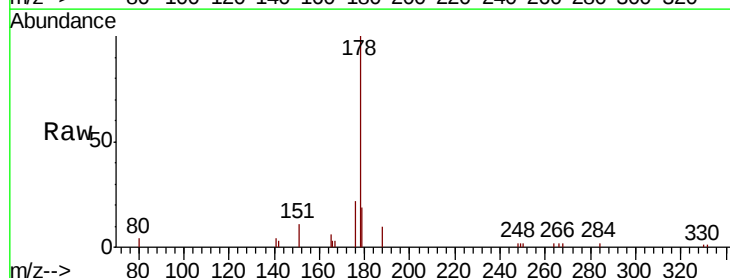
Tgt Ion:178 Resp: 5487

Ion Ratio Lower Upper

178 100

176 20.4 15.2 22.8

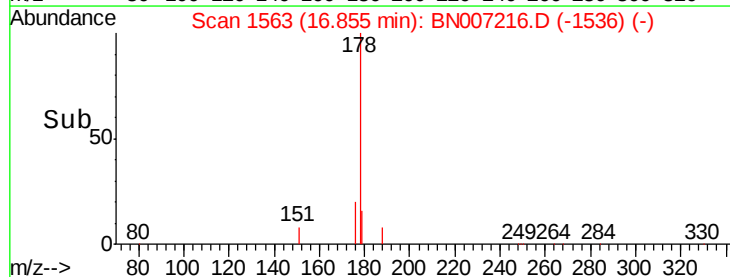
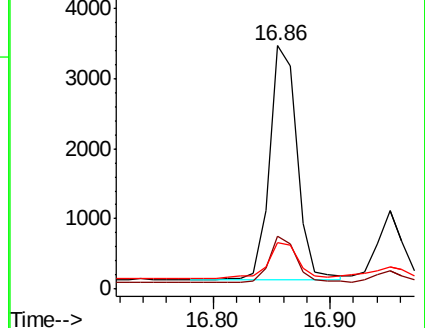
179 17.4 12.3 18.5

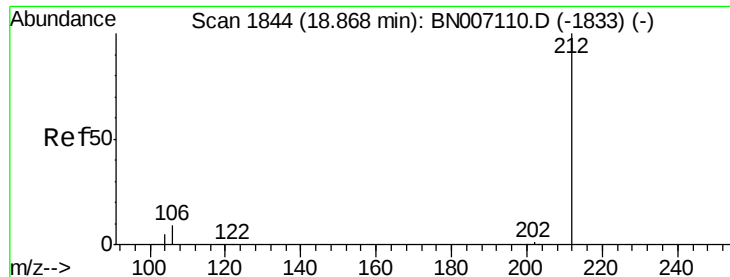


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Fluoranthene-d10

Concen: 0.186 ng

RT: 18.86 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BN007216.D

Acq: 16 Aug 2019 02:57

Instrument :

BNA_N

ClientSampleId :

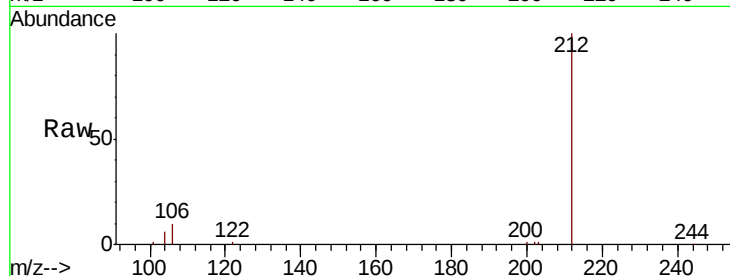
Tot Ion:212 Resp: 23285

Ion Ratio Lower Upper

212 100

106 10.4 8.2 12.2

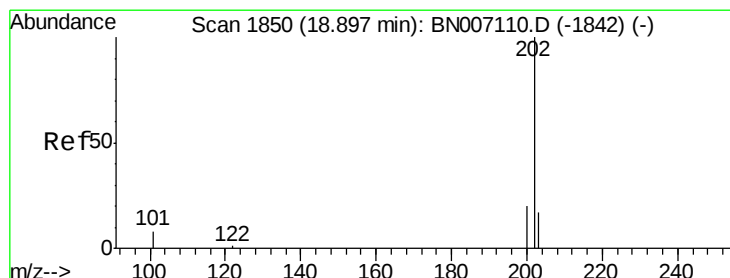
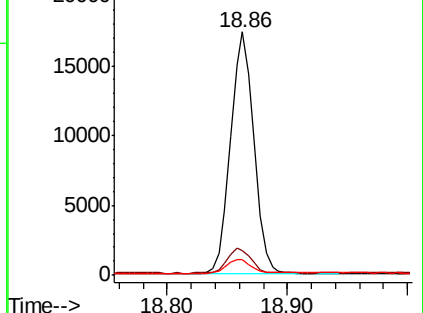
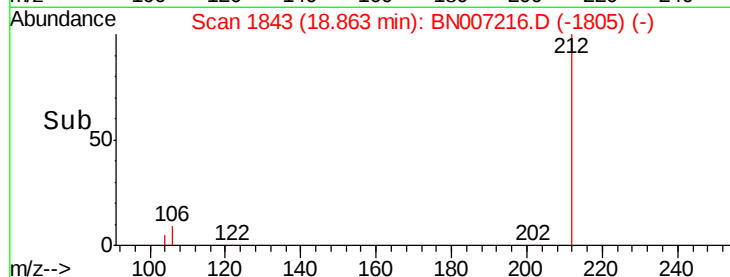
104 6.2 4.5 6.7



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: 0.090 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007216.D

Acq: 16 Aug 2019 02:57

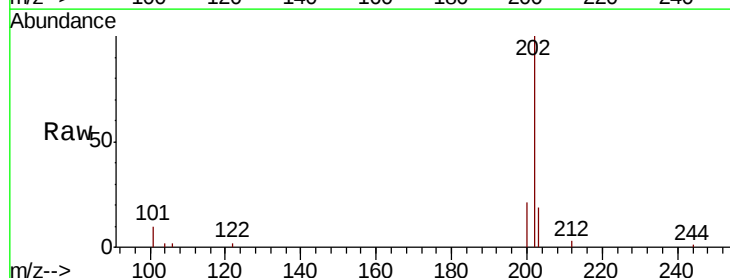
Tgt Ion:202 Resp: 12220

Ion Ratio Lower Upper

202 100

101 9.1 7.0 10.4

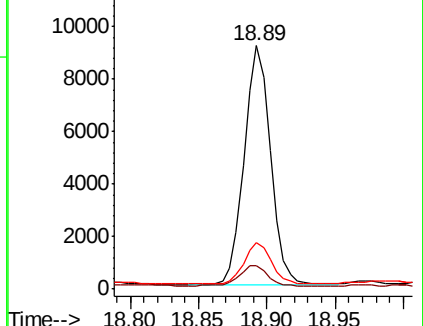
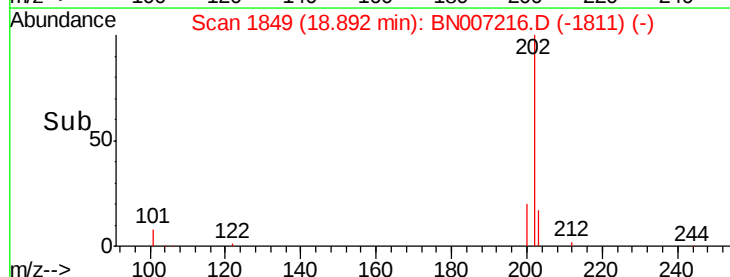
203 17.8 13.8 20.8

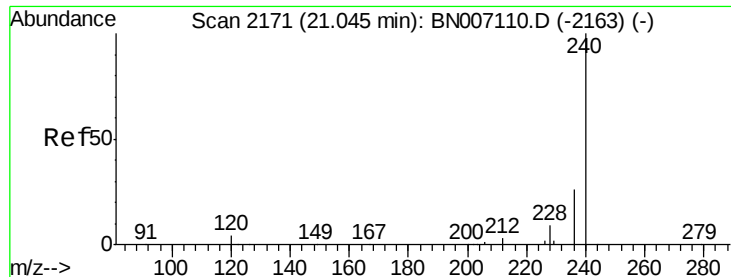


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

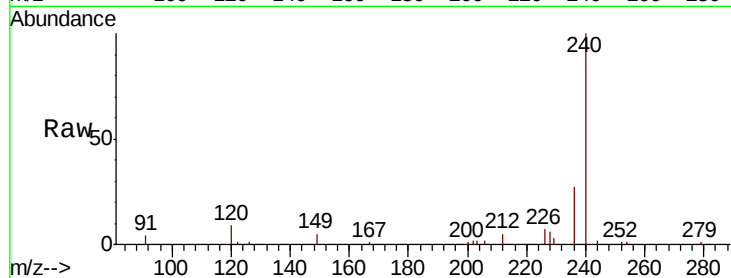




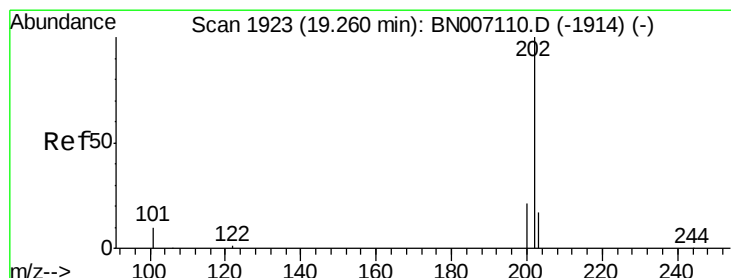
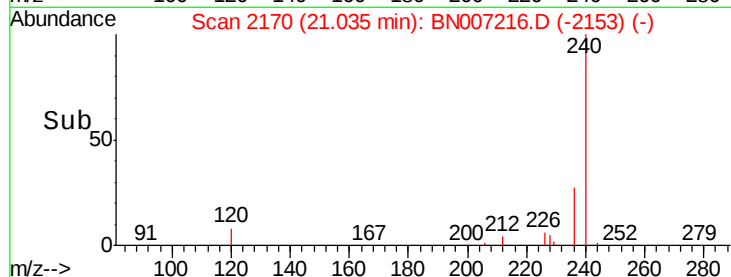
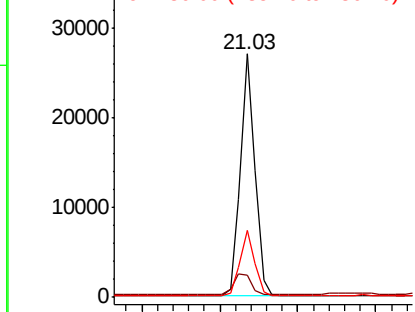
#26
Chrysene-d12
Concen: 0.400 ng
RT: 21.03 min Scan# 2170
Delta R.T. -0.02 min
Lab File: BN007216.D
Acq: 16 Aug 2019 02:57

Instrument :
BNA_N
ClientSampleId :

Tot Ion:240 Resp: 34809
Ion Ratio Lower Upper
240 100
120 8.9 4.0 6.0#
236 27.3 21.3 31.9

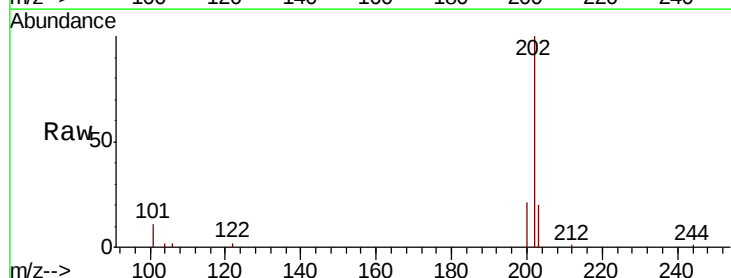


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

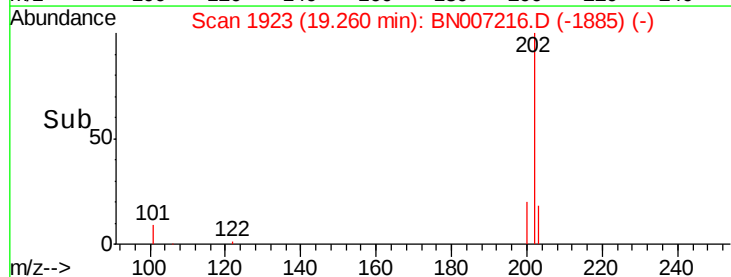
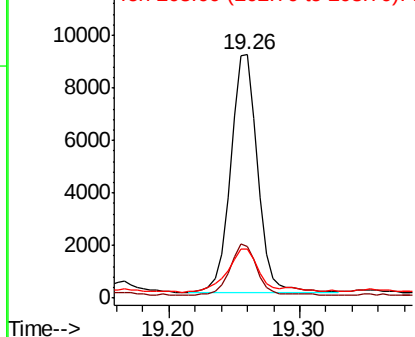


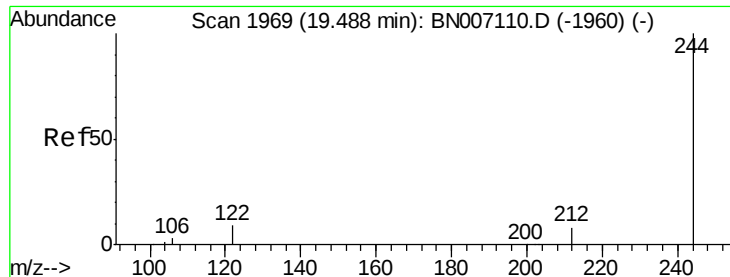
#27
Pyrene
Concen: 0.107 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007216.D
Acq: 16 Aug 2019 02:57

Tgt Ion:202 Resp: 13037
Ion Ratio Lower Upper
202 100
200 21.3 16.6 24.8
203 22.3 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: 0.177 ng

RT: 19.48 min Scan# 1968

Delta R.T. -0.02 min

Lab File: BN007216.D

Acq: 16 Aug 2019 02:57

Instrument :

BNA_N

ClientSampleId :

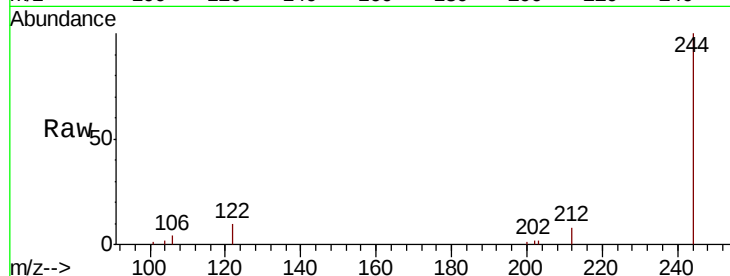
Tot Ion:244 Resp: 16813

Ion Ratio Lower Upper

244 100

212 8.4 6.2 9.2

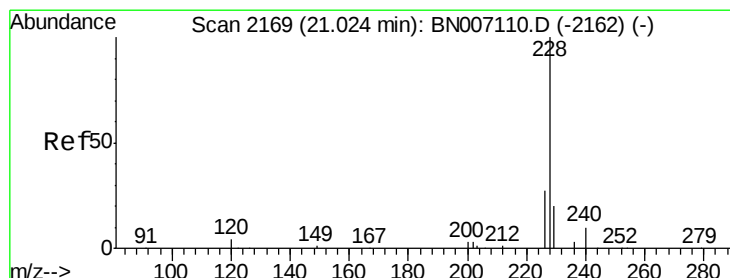
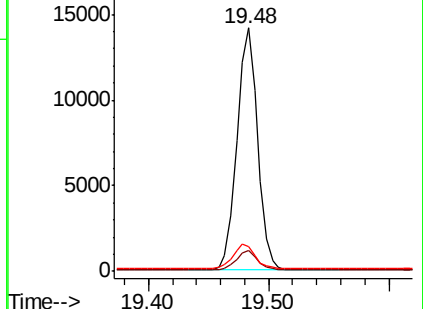
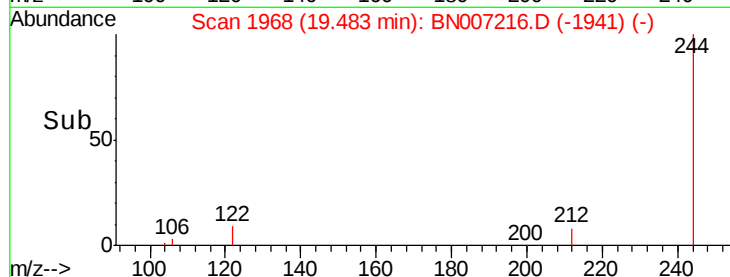
122 10.2 7.4 11.2



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: 0.061 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007216.D

Acq: 16 Aug 2019 02:57

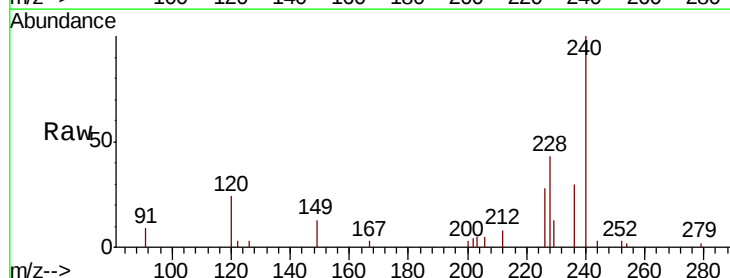
Tgt Ion:228 Resp: 7765

Ion Ratio Lower Upper

228 100

226 65.1 21.8 32.6#

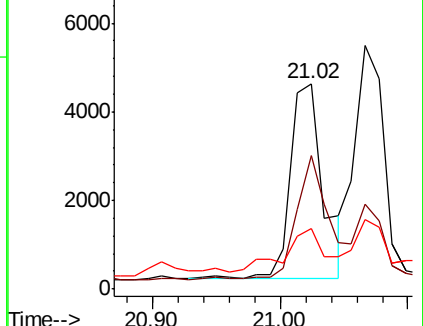
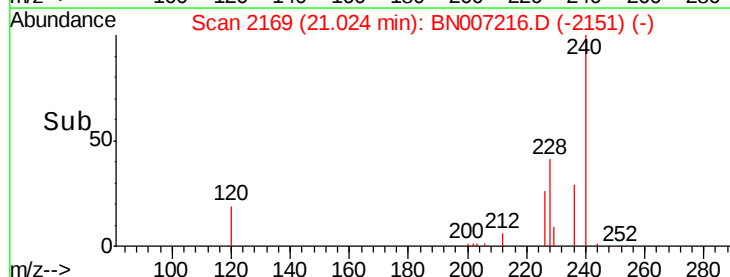
229 29.1 15.6 23.4#

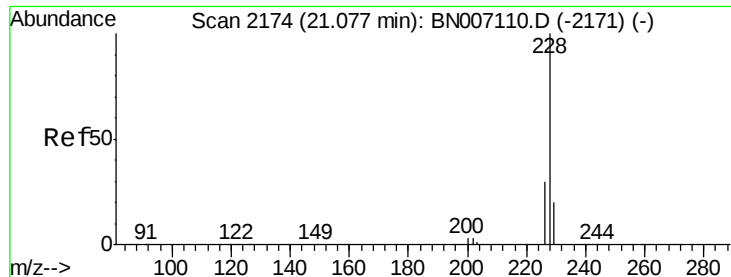


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#30

Chrysene

Concen: 0.065 ng

RT: 21.07 min Scan# 2173

Delta R.T. -0.02 min

Lab File: BN007216.D

Acq: 16 Aug 2019 02:57

Instrument :

BNA_N

ClientSampleId :

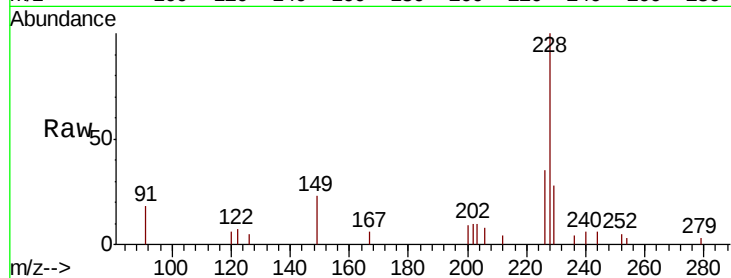
Tot Ion:228 Resp: 8023

Ion Ratio Lower Upper

228 100

226 34.9 23.8 35.6

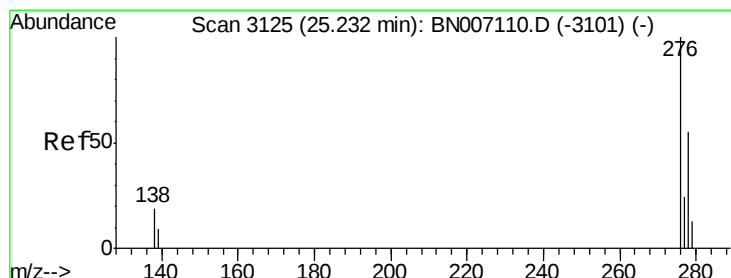
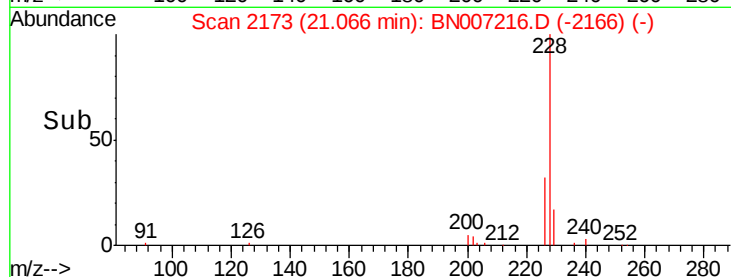
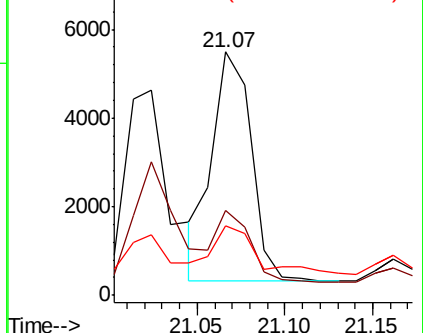
229 28.3 15.7 23.5#



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: 0.043 ng

RT: 25.22 min Scan# 3122

Delta R.T. -0.03 min

Lab File: BN007216.D

Acq: 16 Aug 2019 02:57

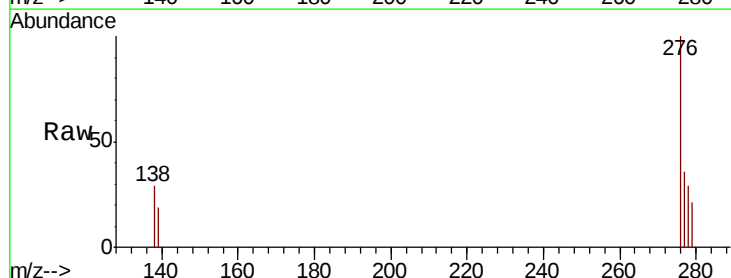
Tgt Ion:276 Resp: 5882

Ion Ratio Lower Upper

276 100

138 20.1 16.0 24.0

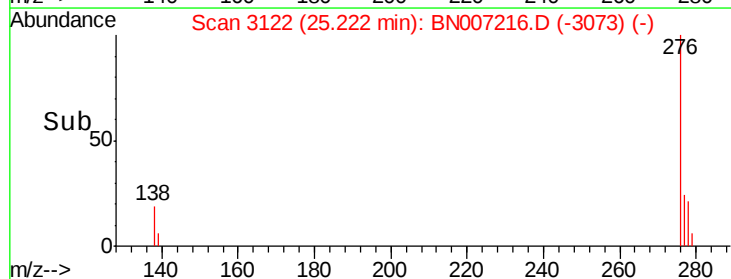
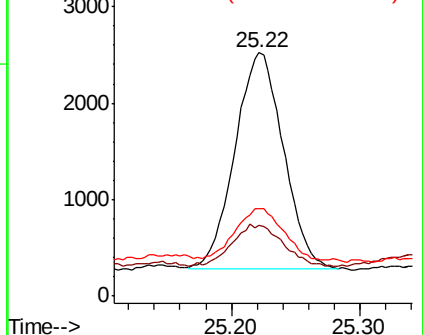
277 25.7 19.9 29.9

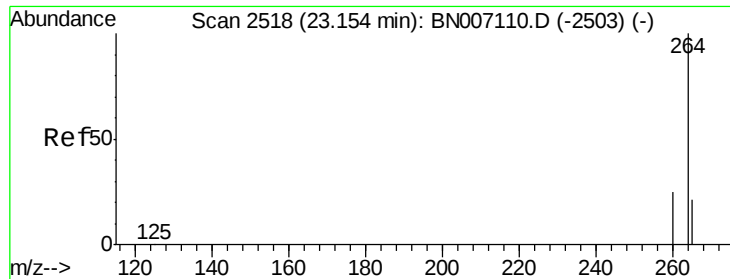


Abundance Ion 276.00 (275.70 to 276.70): E

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# 2516

Delta R.T. -0.02 min

Lab File: BN007216.D

Acq: 16 Aug 2019 02:57

Instrument :

BNA_N

ClientSampleId :

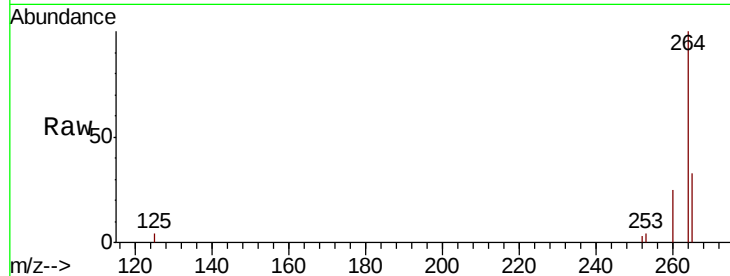
Tot Ion:264 Resp: 38600

Ion Ratio Lower Upper

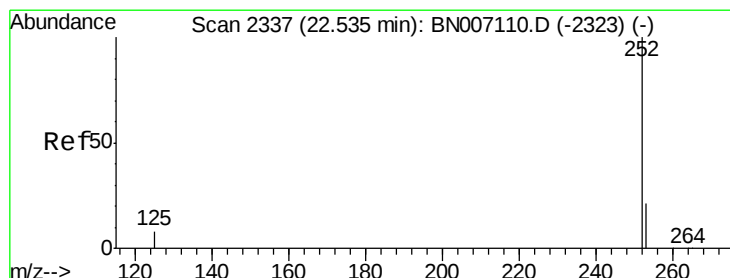
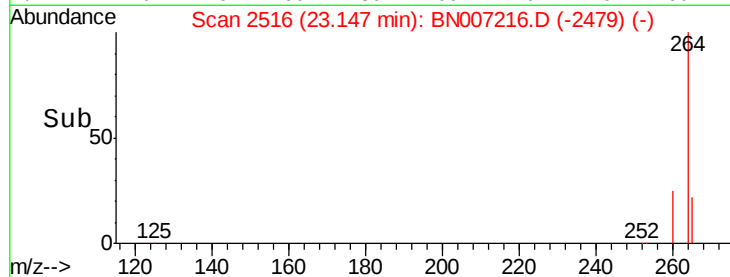
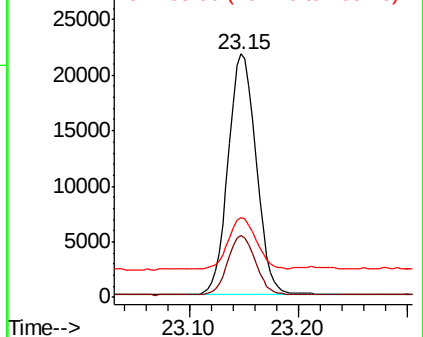
264 100

260 25.5 19.8 29.8

265 32.9 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: 0.080 ng

RT: 22.53 min Scan# 2335

Delta R.T. -0.02 min

Lab File: BN007216.D

Acq: 16 Aug 2019 02:57

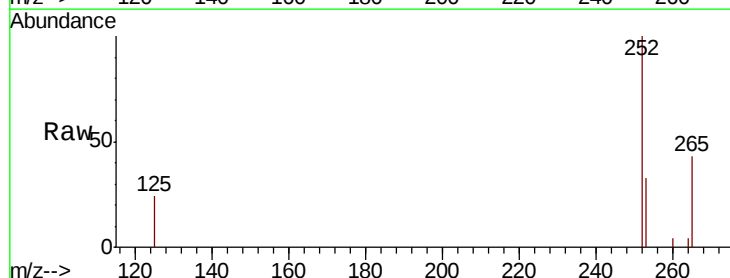
Tgt Ion:252 Resp: 10635

Ion Ratio Lower Upper

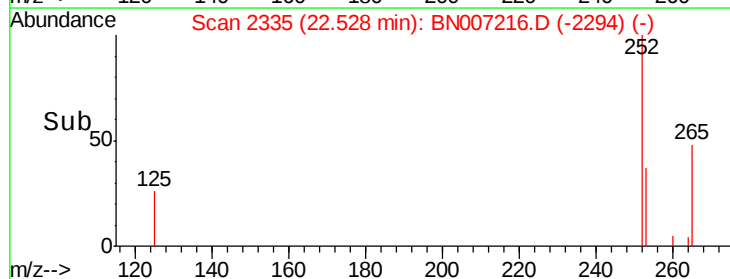
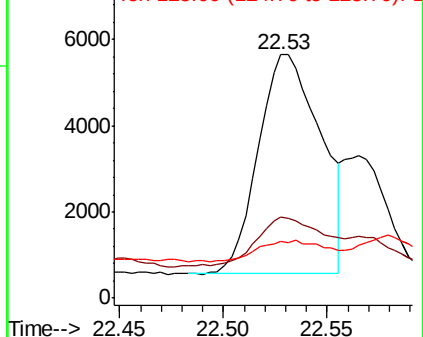
252 100

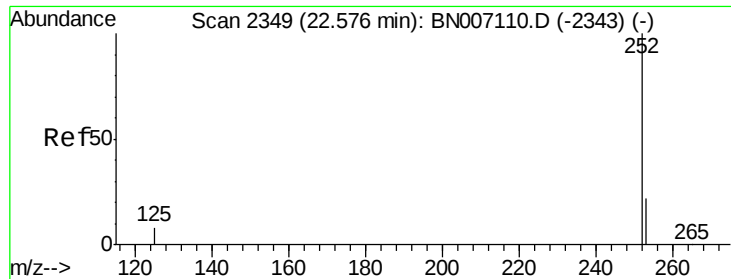
253 33.3 18.2 27.2#

125 23.5 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

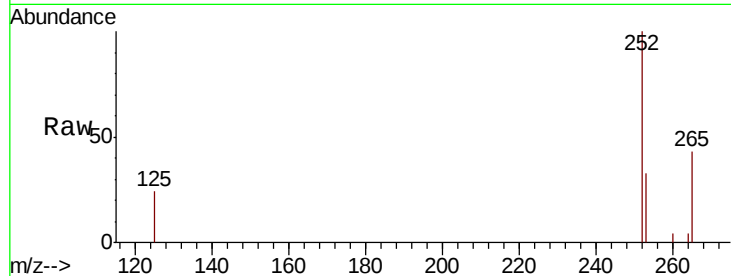




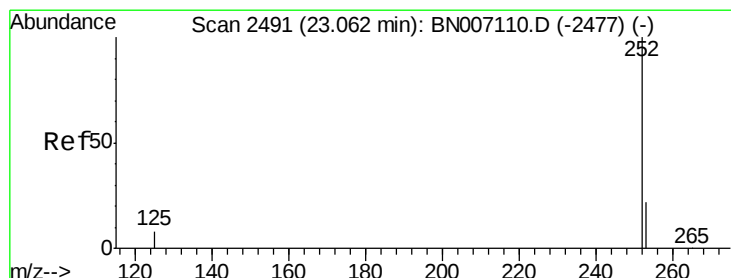
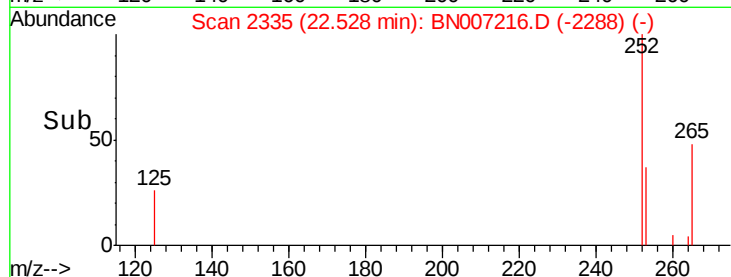
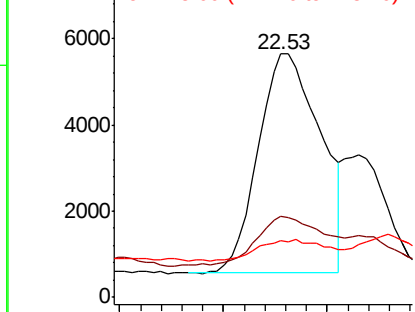
#34
Benzo(k)fluoranthene
Concen: 0.081 ng
RT: 22.53 min Scan# 2335
Delta R.T. -0.06 min
Lab File: BN007216.D
Acq: 16 Aug 2019 02:57

Instrument :
BNA_N
ClientSampleId :

Tot Ion:252 Resp: 10635
Ion Ratio Lower Upper
252 100
253 33.3 18.1 27.1#
125 23.5 7.4 11.0#

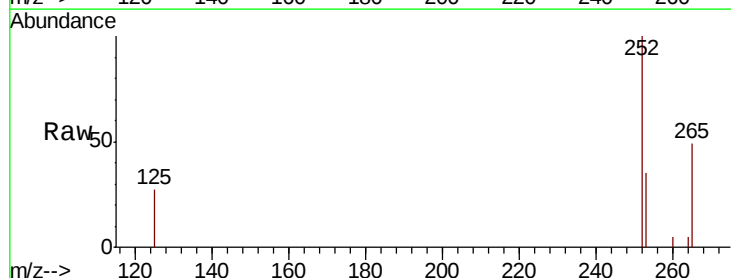


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

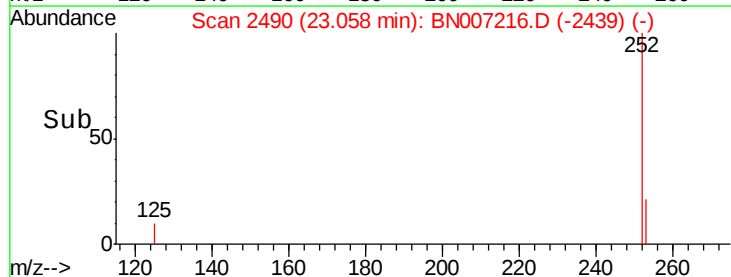
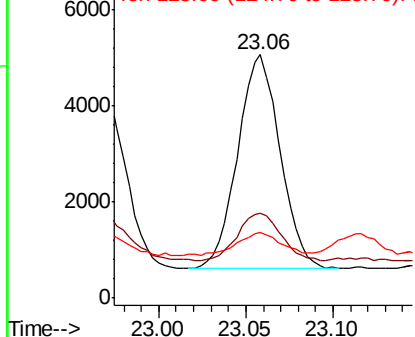


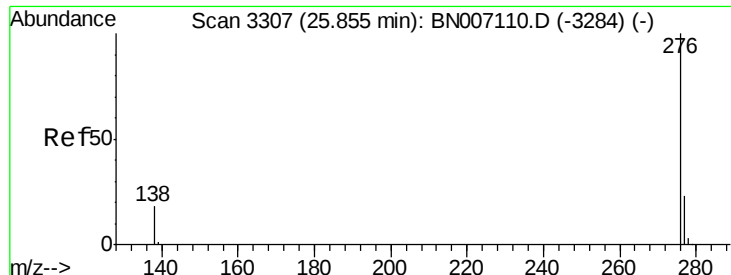
#35
Benzo(a)pyrene
Concen: 0.063 ng
RT: 23.06 min Scan# 2490
Delta R.T. -0.02 min
Lab File: BN007216.D
Acq: 16 Aug 2019 02:57

Tgt Ion:252 Resp: 7545
Ion Ratio Lower Upper
252 100
253 34.8 18.5 27.7#
125 26.7 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





#37

Benzo(a,h,i)perylene

Concen: 0.061 ng

RT: 25.85 min Scan# 3305

Delta R.T. -0.03 min

Lab File: BN007216.D

Acq: 16 Aug 2019 02:57

Instrument :

BNA_N

ClientSampleId :

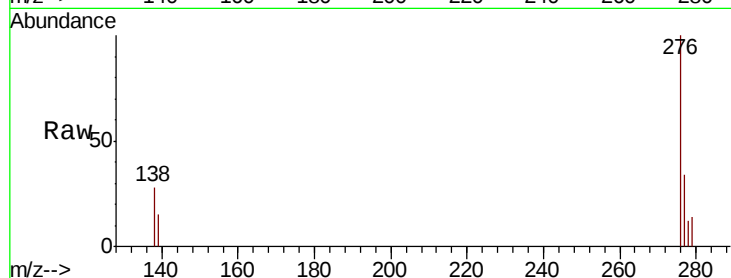
Tot Ion: 276 Resp: 7519

Ion Ratio Lower Upper

276 100

277 34.0 19.8 29.8#

138 27.6 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

