

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081019\
 Data File : BN007075.D
 Acq On : 11 Aug 2019 08:00
 Operator : HP/JU
 Sample : K4143-08
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 12 04:42:06 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	10055	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	38411	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	22421	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	56258	0.40	ng	0.00
26) Chrysene-d12	21.05	240	58986	0.40	ng	-0.01
32) Perylene-d12	23.16	264	62812	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	4913	0.20	ng	0.00
4) Phenol-d6	6.61	99	6693	0.22	ng	0.00
7) Nitrobenzene-d5	8.56	82	5256	0.17	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	12222	0.17	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1706	0.14	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	4039	0.12	ng	0.00
24) Fluoranthene-d10	18.87	212	29958	0.15	ng	0.00
28) Terphenyl-d14	19.49	244	21981	0.14	ng	-0.01

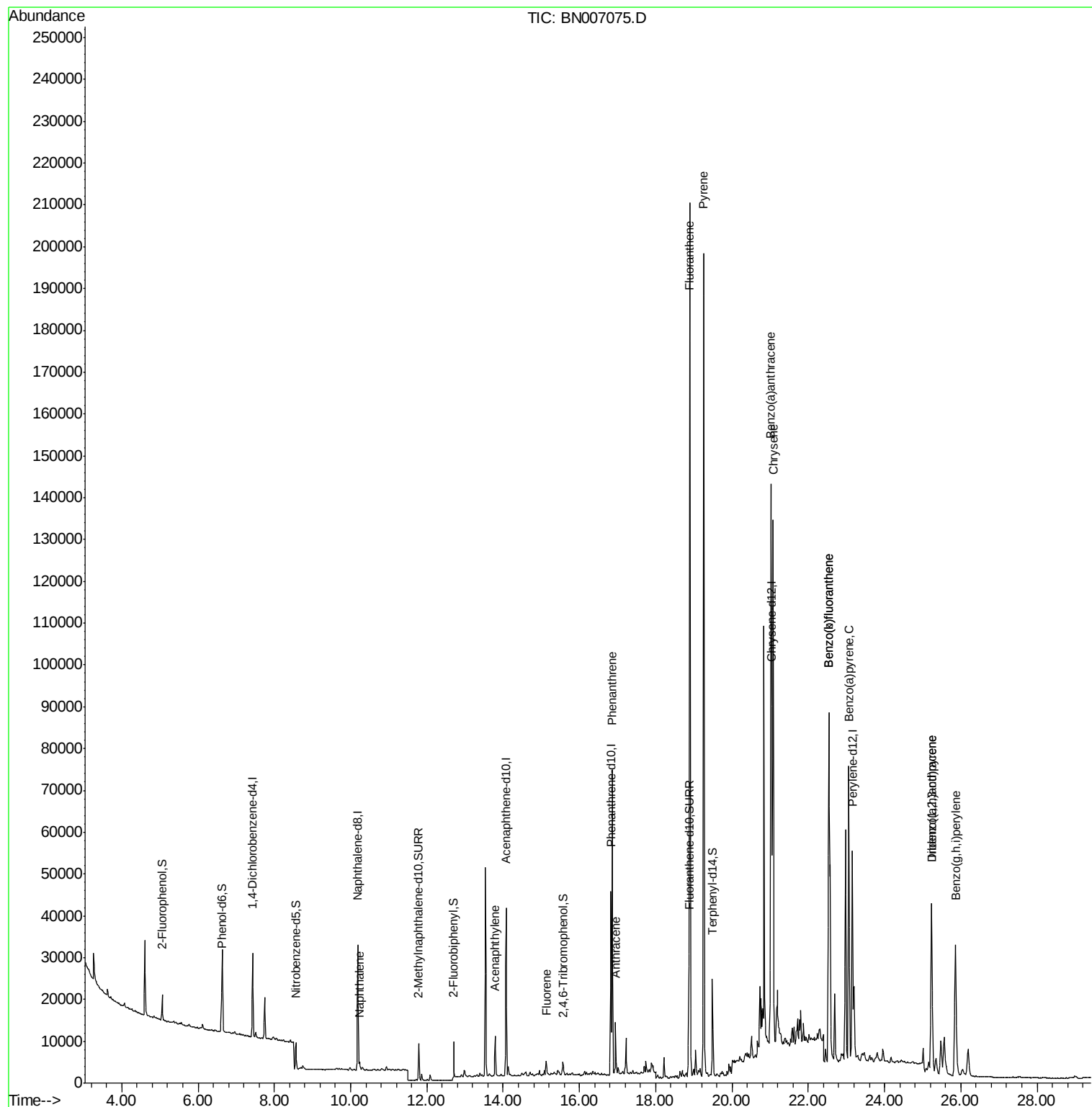
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.24	128	2362	0.022	ng	# 88
15) Acenaphthylene	13.79	152	11844	0.101	ng	99
17) Fluorene	15.13	166	2554	0.023	ng	91
22) Phenanthrene	16.87	178	70271	0.417	ng	100
23) Anthracene	16.95	178	14253	0.093	ng	# 94
25) Fluoranthene	18.90	202	188835	0.876	ng	100
27) Pyrene	19.26	202	177529	0.858	ng	# 96
29) Benzo(a)anthracene	21.02	228	106964	0.496	ng	96
30) Chrysene	21.08	228	111433	0.532	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	63570	0.275	ng	98
33) Benzo(b)fluoranthene	22.54	252	142458	0.661	ng	99
34) Benzo(k)fluoranthene	22.54	252	142458	0.670	ng	99
35) Benzo(a)pyrene	23.07	252	92190	0.472	ng	99
36) Dibenzo(a,h)anthracene	25.24	278	17366	0.089	ng	# 87
37) Benzo(g,h,i)perylene	25.86	276	64583	0.322	ng	99

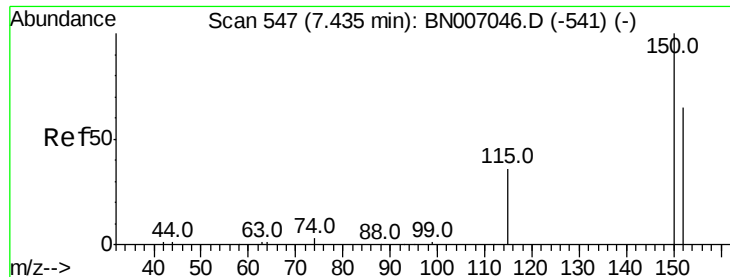
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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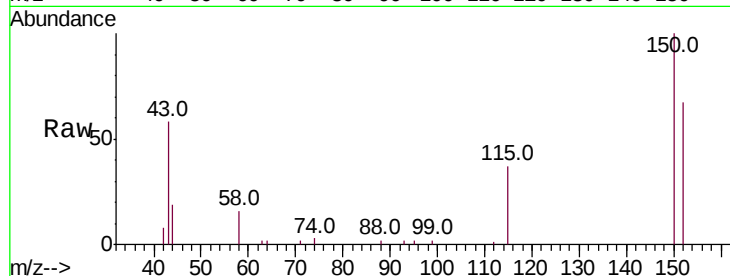


#1

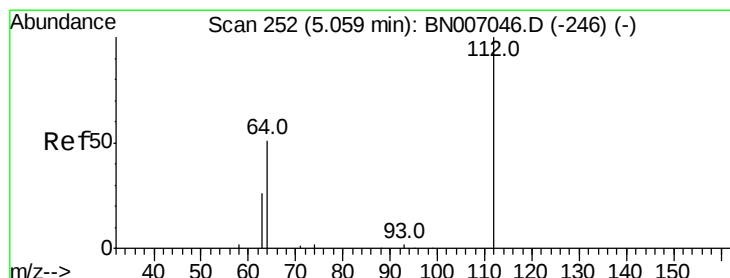
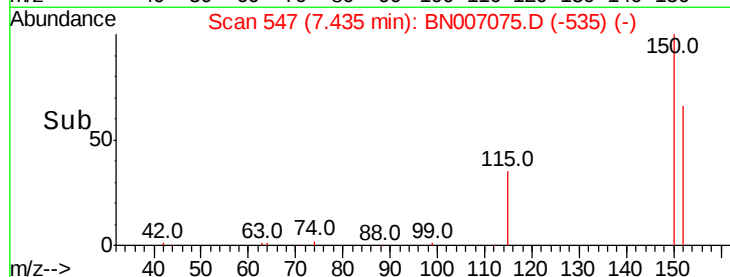
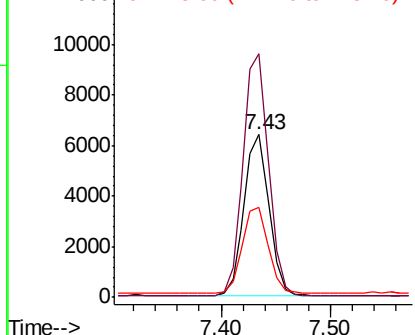
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007075.D
Acq: 11 Aug 2019 08:00

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 10055
Ion Ratio Lower Upper
152 100
150 150.0 121.7 182.5
115 55.2 46.2 69.4



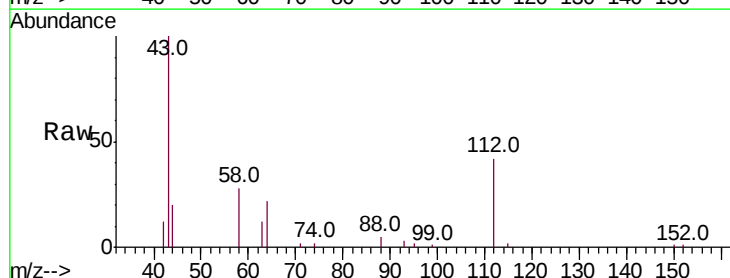
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



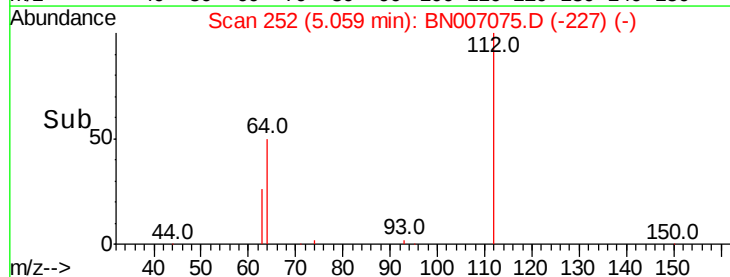
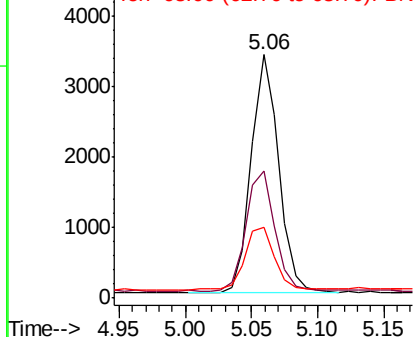
#3

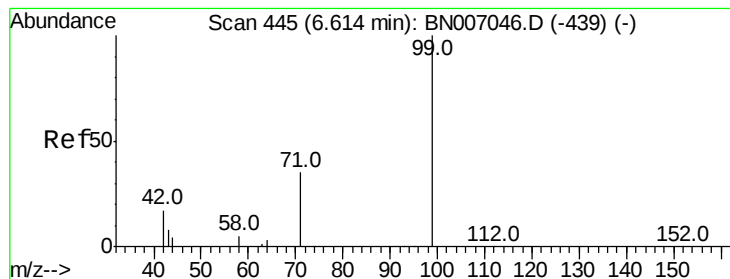
2-Fluorophenol
Concen: 0.203 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007075.D
Acq: 11 Aug 2019 08:00

Tgt Ion:112 Resp: 4913
Ion Ratio Lower Upper
112 100
64 52.2 42.6 63.8
63 28.1 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: 0.224 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

Instrument :

BNA_N

ClientSampleId :

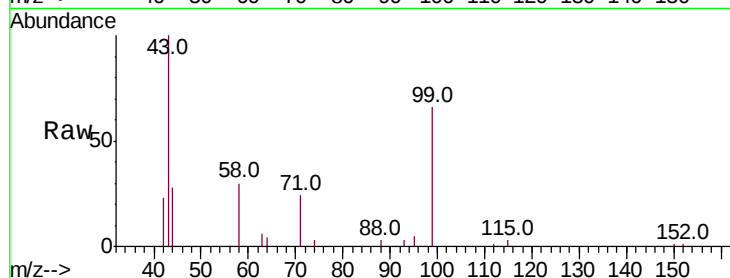
Tot Ion: 99 Resp: 6693

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

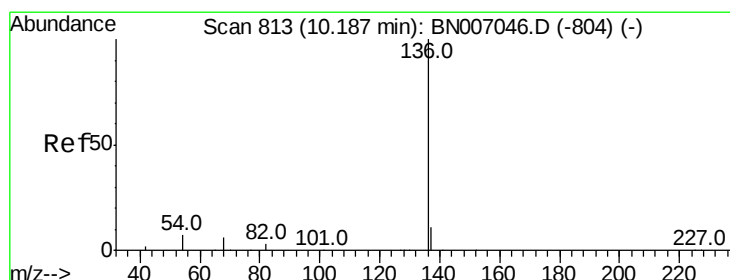
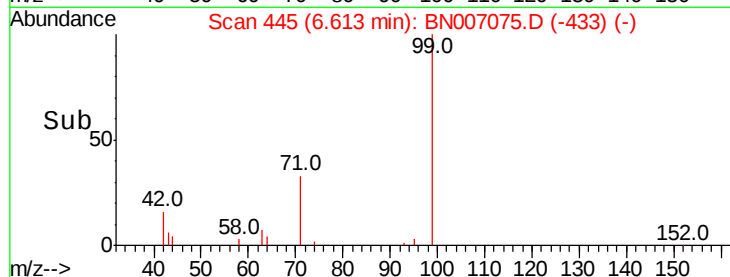
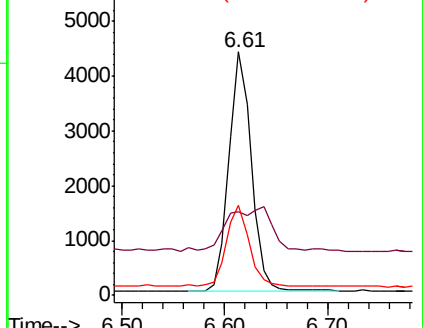
71 34.6 27.0 40.4



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: BN007075.D

Acq: 11 Aug 2019 08:00

Tgt Ion: 136 Resp: 38411

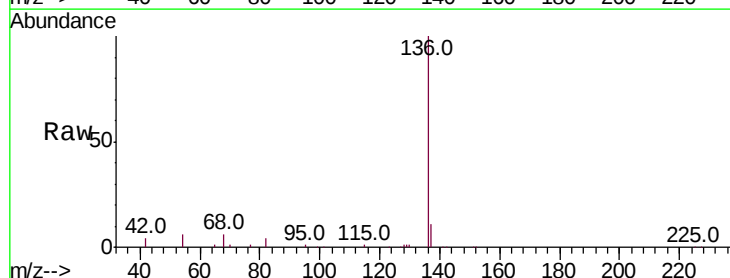
Ion Ratio Lower Upper

136 100

137 11.3 9.4 14.0

54 6.4 6.6 9.8#

68 5.9 6.0 9.0#

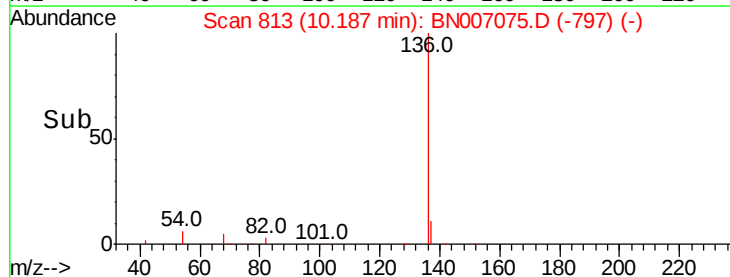
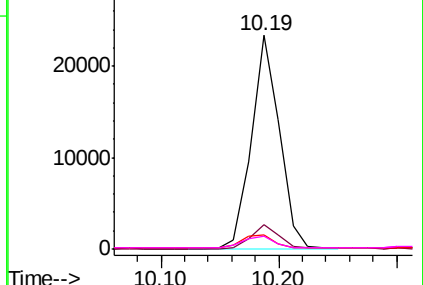


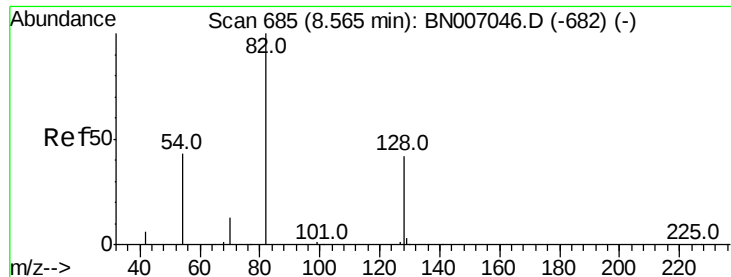
Abundance Ion 136.00 (135.70 to 136.70): BN007046.D (-804) (-)

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: 0.170 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

Instrument :

BNA_N

ClientSampleId :

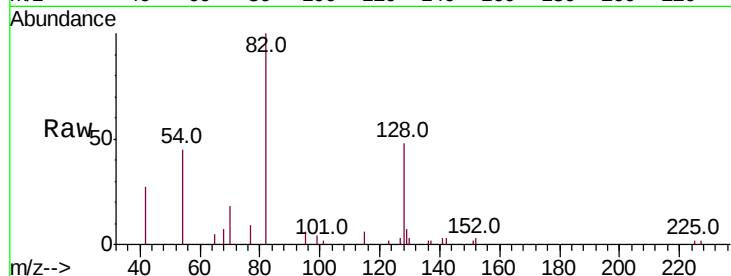
Tot Ion: 82 Resp: 5256

Ion Ratio Lower Upper

82 100

128 47.9 34.6 51.8

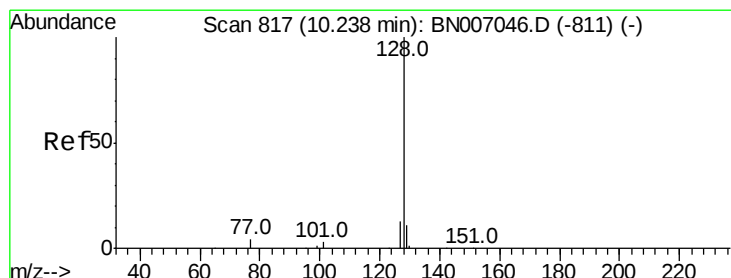
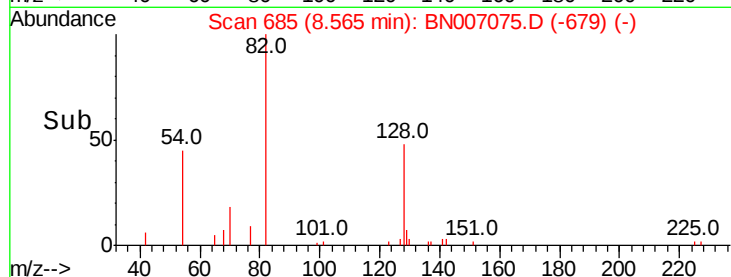
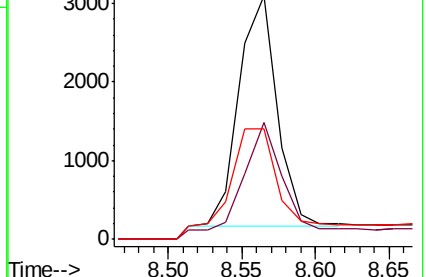
54 45.3 36.2 54.4



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) (-)



#8

Naphthalene

Concen: 0.022 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

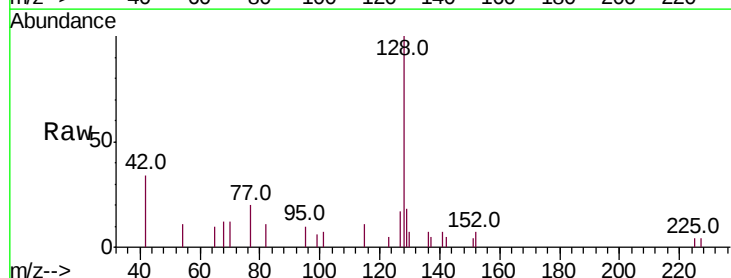
Tgt Ion: 128 Resp: 2362

Ion Ratio Lower Upper

128 100

129 17.6 9.4 14.2#

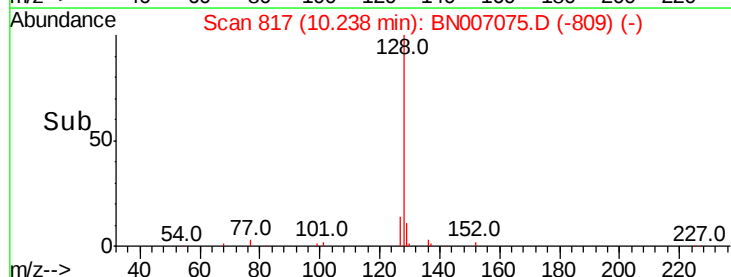
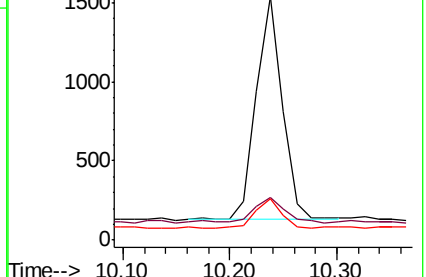
127 17.2 11.0 16.6#

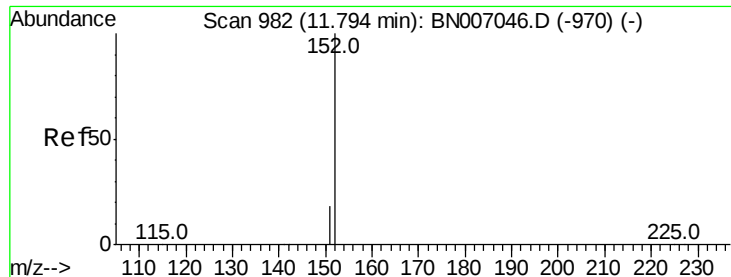


Abundance Ion 128.00 (127.70 to 128.70): BN007046.D (-811) (-)

Ion 129.00 (128.70 to 129.70): BN007046.D (-811) (-)

Ion 127.00 (126.70 to 127.70): BN007046.D (-811) (-)





#10

2-Methylnaphthalene-d10

Concen: 0.171 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

Instrument :

BNA_N

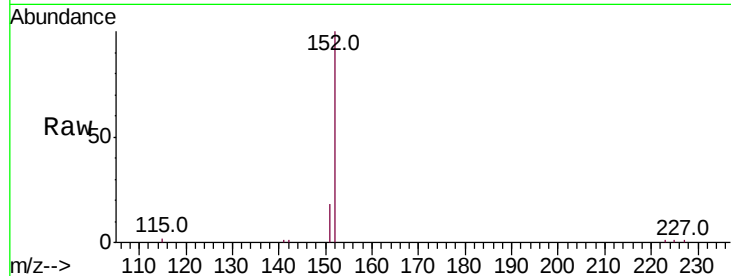
ClientSampleId :

Tot Ion:152 Resp: 12222

Ion Ratio Lower Upper

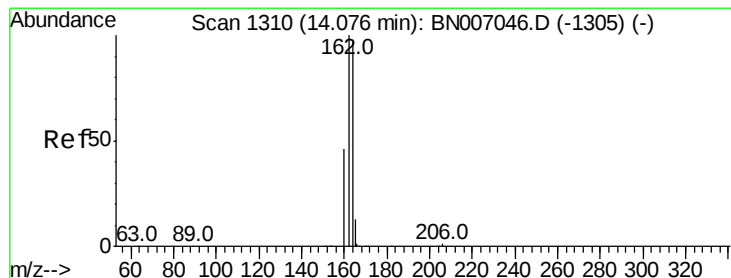
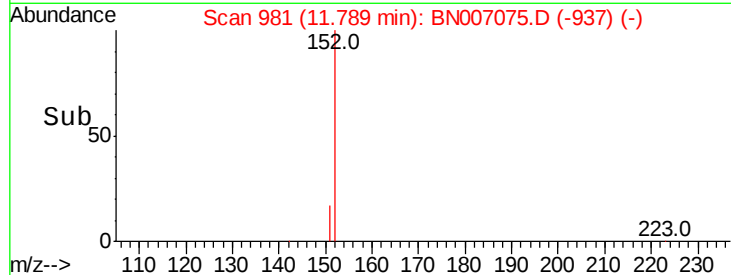
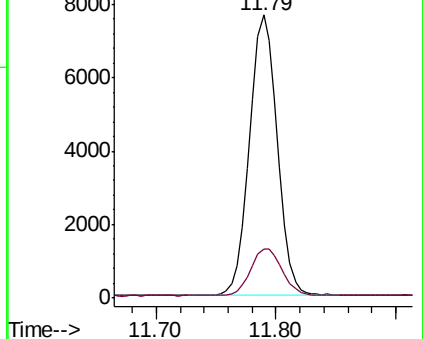
152 100

151 19.0 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

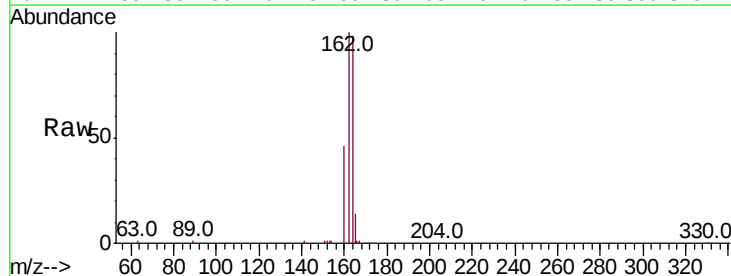
Tgt Ion:164 Resp: 22421

Ion Ratio Lower Upper

164 100

162 102.2 82.2 123.4

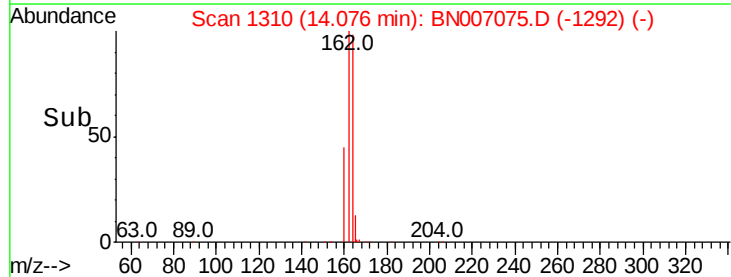
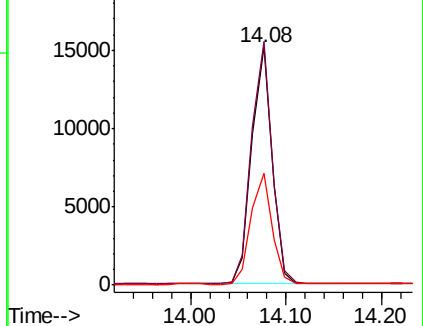
160 46.7 38.3 57.5

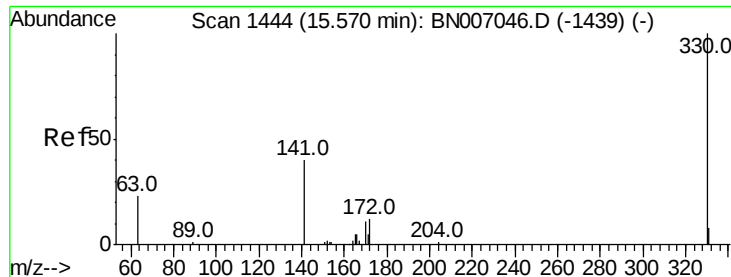


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

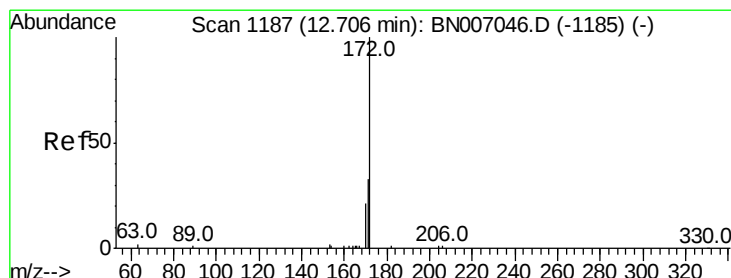
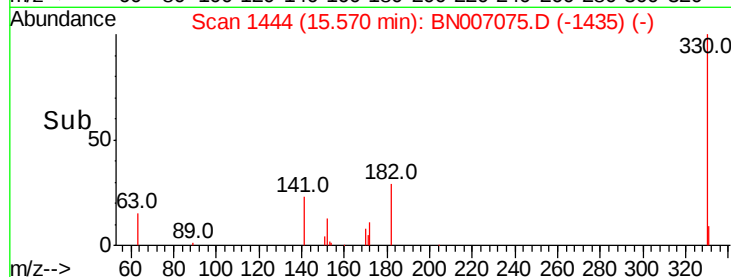
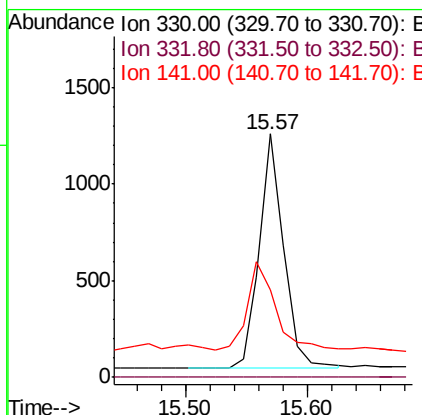
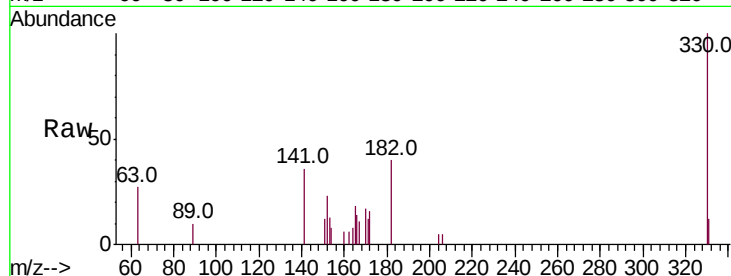




#13
 2,4,6-Tribromophenol
 Concen: 0.141 ng
 RT: 15.57 min Scan# 1444
 Delta R.T. -0.00 min
 Lab File: BN007075.D
 Acq: 11 Aug 2019 08:00

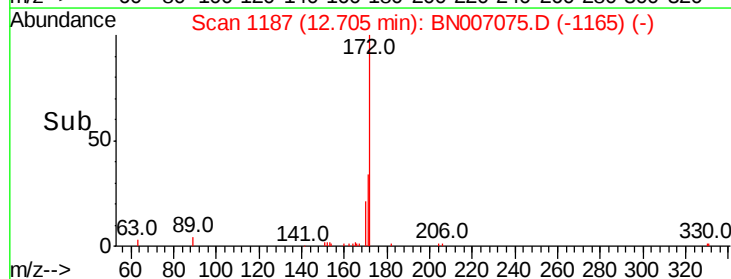
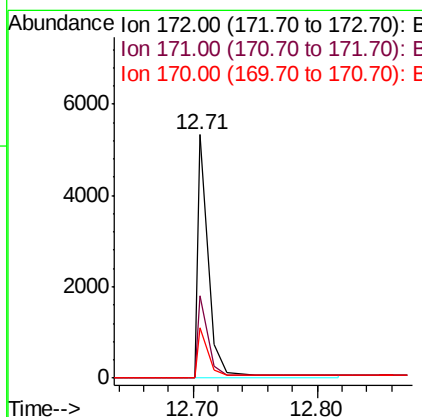
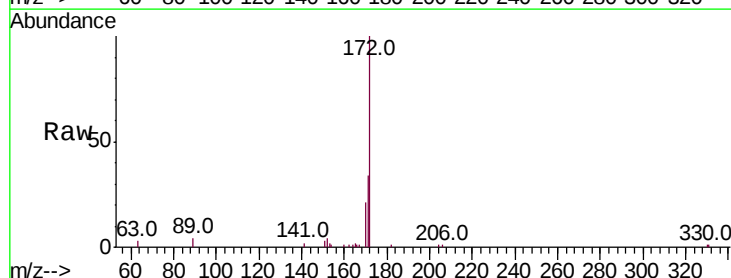
Instrument :
 BNA_N
 ClientSampleId :

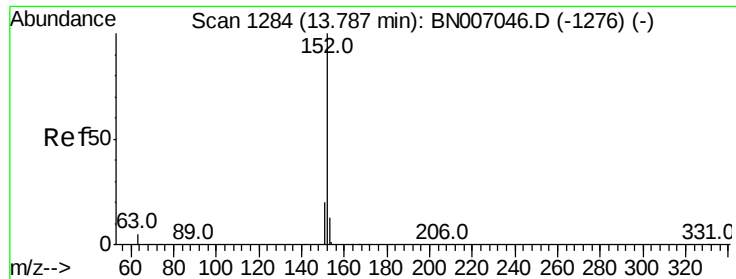
Tot Ion:330 Resp: 1706
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 42.7 33.6 50.4



#14
 2-Fluorobiphenyl
 Concen: 0.124 ng
 RT: 12.71 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: BN007075.D
 Acq: 11 Aug 2019 08:00

Tgt Ion:172 Resp: 4039
 Ion Ratio Lower Upper
 172 100
 171 33.7 26.3 39.5
 170 20.6 17.0 25.4





#15

Acenaphthylene

Concen: 0.101 ng

RT: 13.79 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

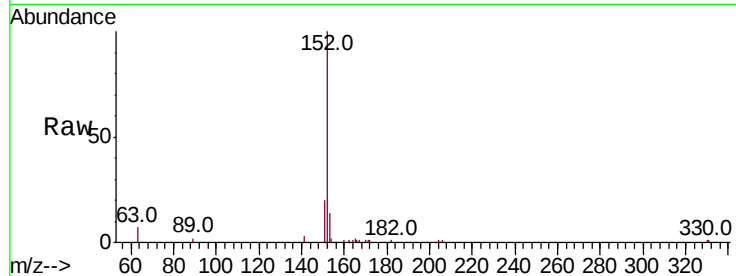
Instrument :

BNA_N

ClientSampleId :

Tot Ion:152 Resp: 11844

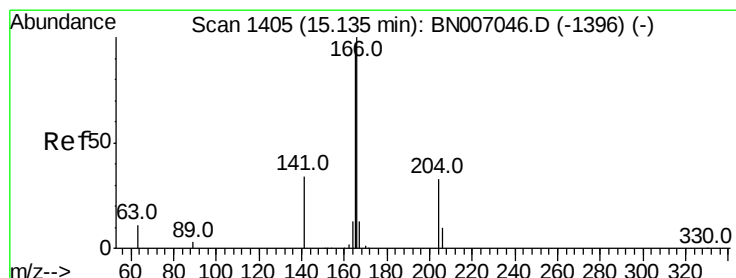
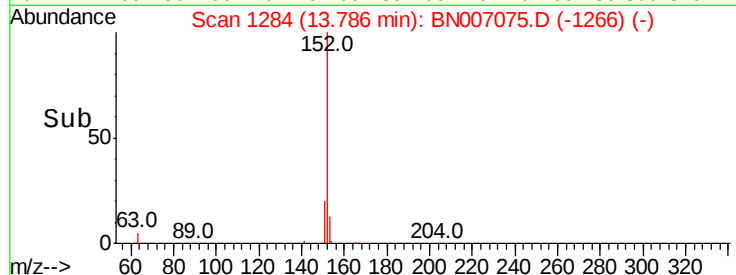
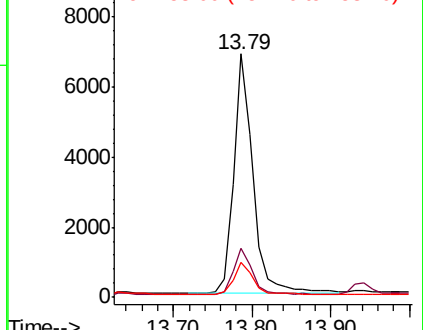
Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	13.7	10.4	15.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#17

Fluorene

Concen: 0.023 ng

RT: 15.13 min Scan# 1405

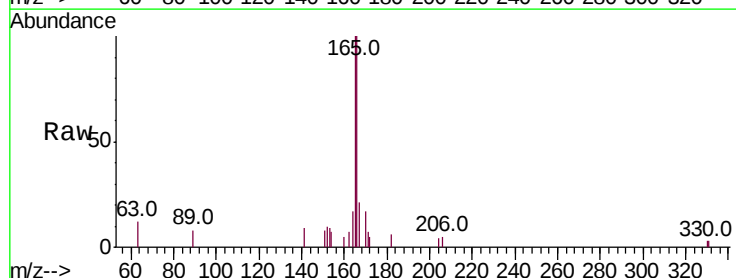
Delta R.T. -0.00 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

Tgt Ion:166 Resp: 2554

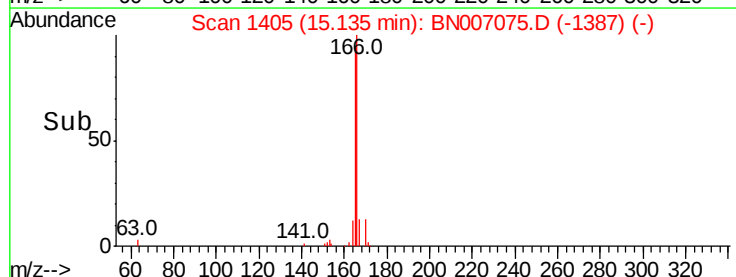
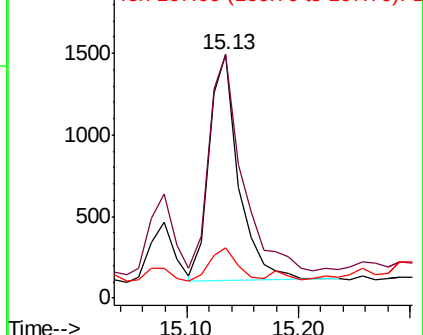
Ion	Ratio	Lower	Upper
166	100		
165	107.0	77.9	116.9
167	14.4	10.9	16.3

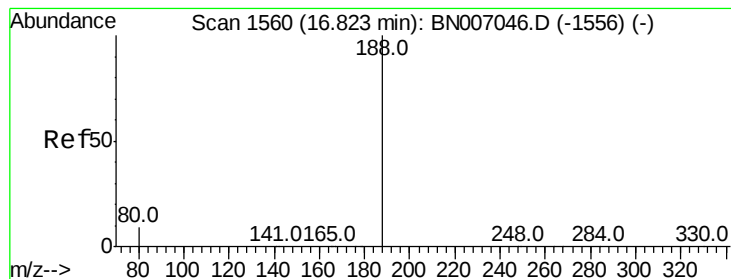


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

Instrument :

BNA_N

ClientSampled :

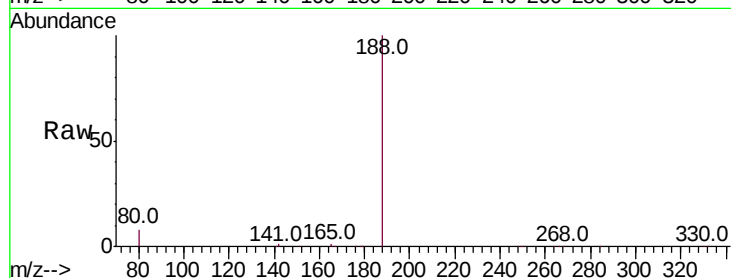
Tot Ion:188 Resp: 56258

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

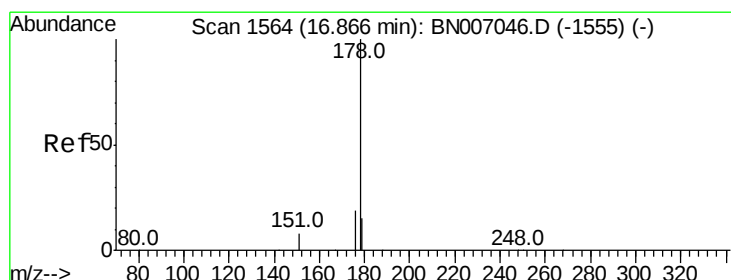
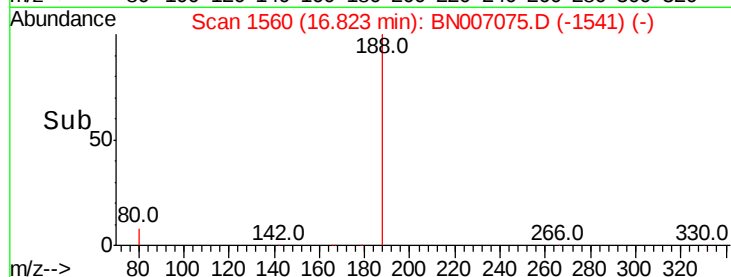
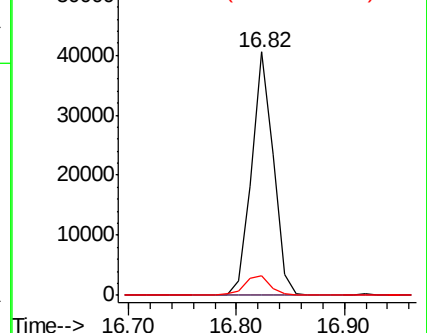
80 8.1 7.8 11.6



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: 0.417 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

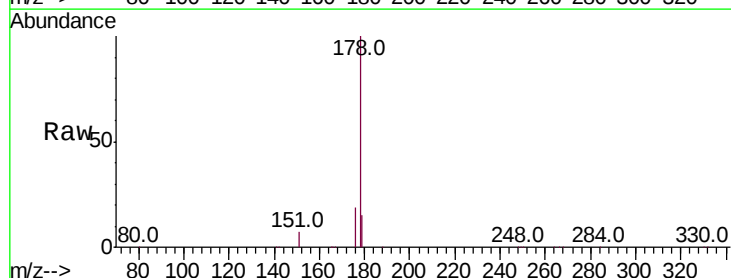
Tgt Ion:178 Resp: 70271

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

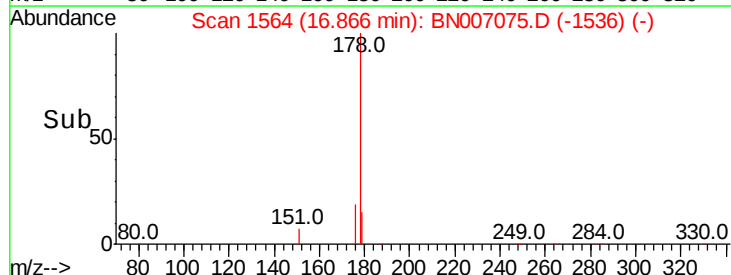
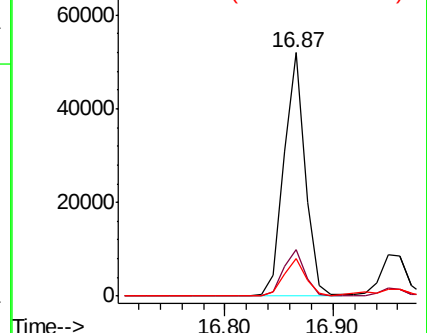
179 15.4 12.3 18.5

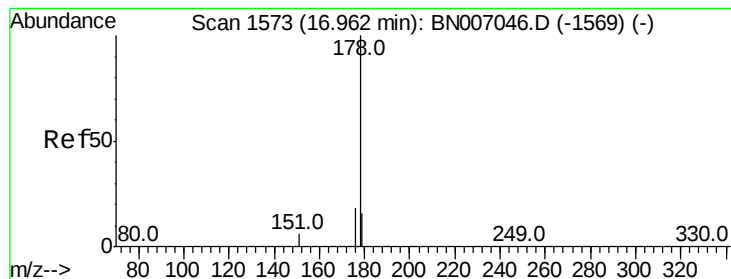


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 0.093 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

Instrument :

BNA_N

ClientSampleId :

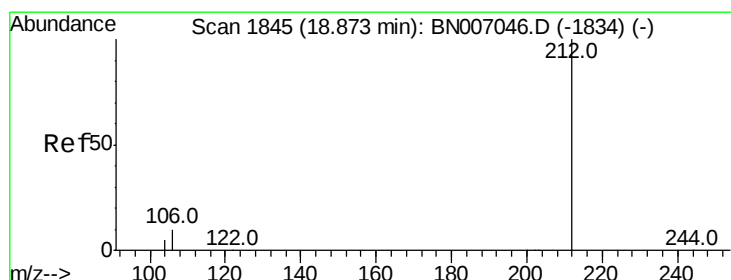
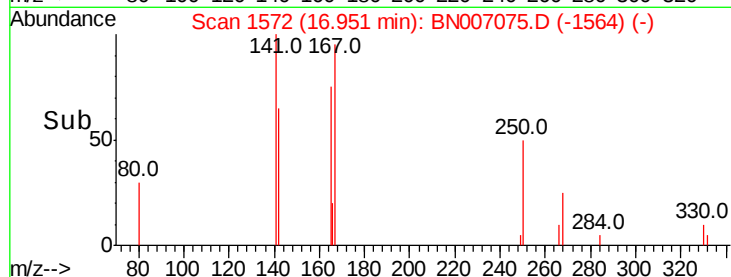
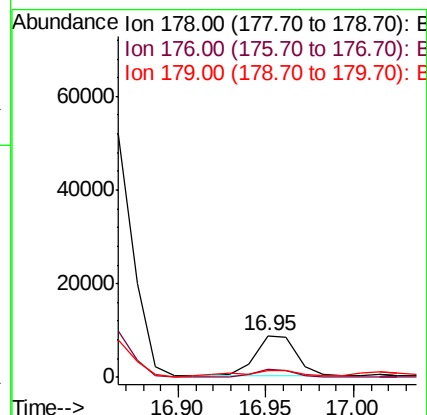
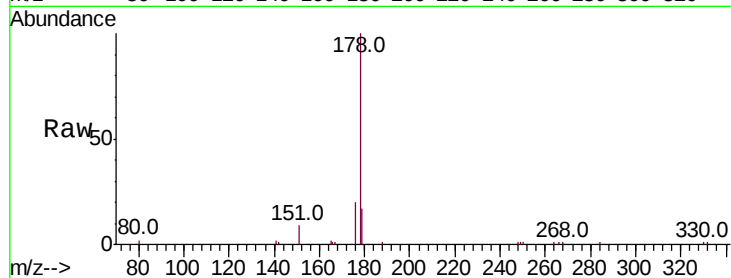
Tot Ion:178 Resp: 14253

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

179 21.0 12.5 18.7#



#24

Fluoranthene-d10

Concen: 0.150 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

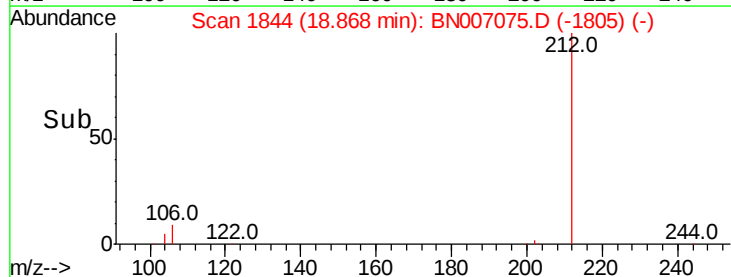
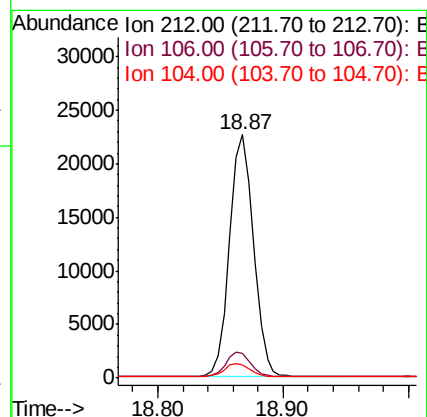
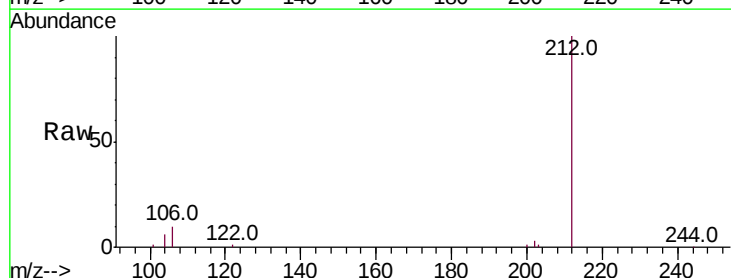
Tgt Ion:212 Resp: 29958

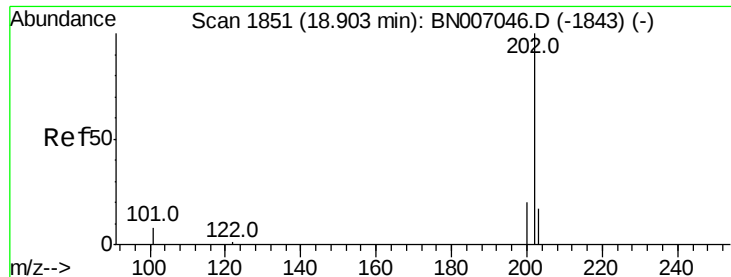
Ion Ratio Lower Upper

212 100

106 10.1 8.2 12.2

104 5.6 4.5 6.7





#25

Fluoranthene

Concen: 0.876 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

Instrument :

BNA_N

ClientSampleId :

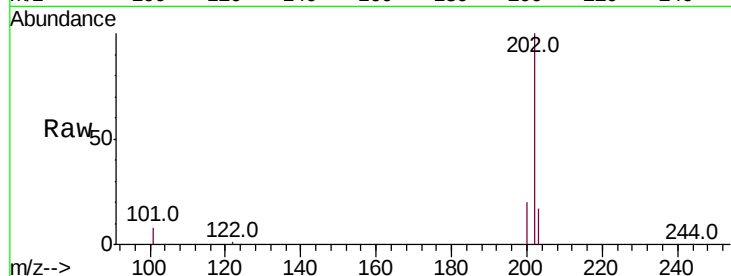
Tot Ion:202 Resp: 188835

Ion Ratio Lower Upper

202 100

101 8.6 7.0 10.4

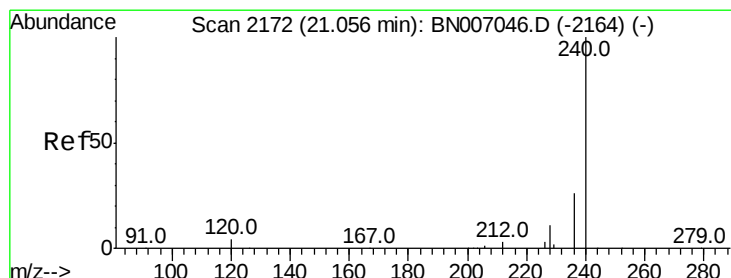
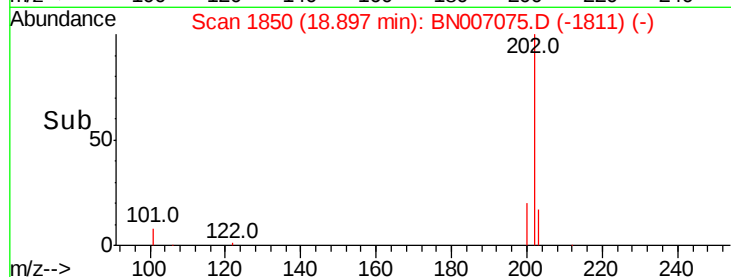
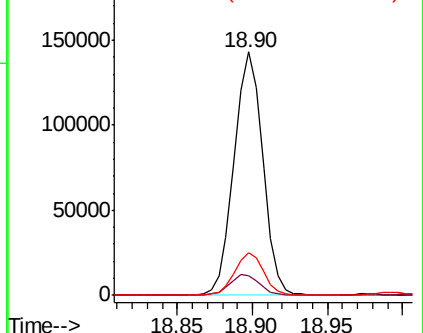
203 17.3 13.8 20.8



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: BN007075.D

Acq: 11 Aug 2019 08:00

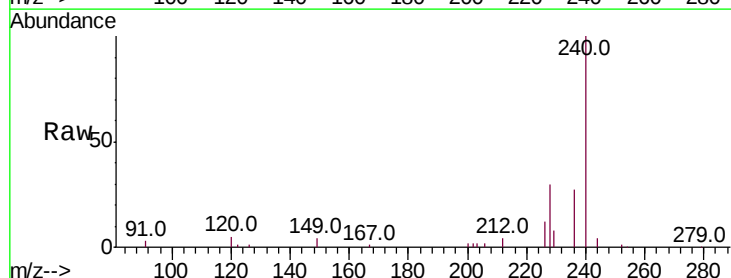
Tgt Ion:240 Resp: 58986

Ion Ratio Lower Upper

240 100

120 5.3 4.0 6.0

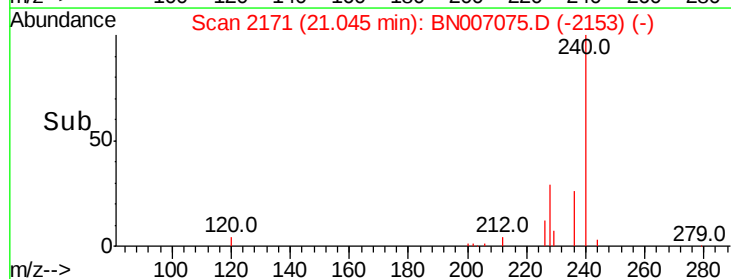
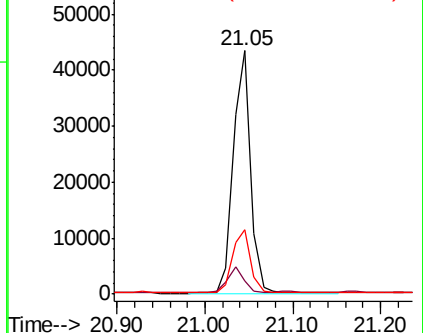
236 26.6 21.3 31.9

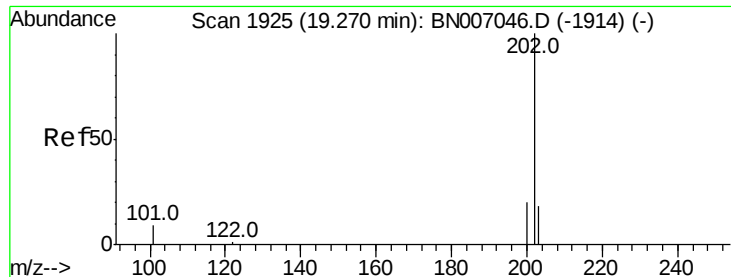


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Pvrene

Concen: 0.858 ng

RT: 19.26 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

Instrument :

BNA_N

ClientSampleId :

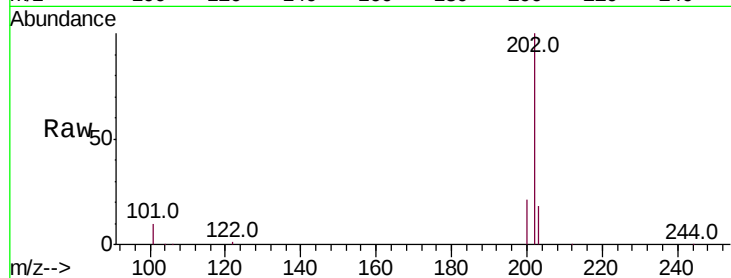
Tot Ion:202 Resp: 177529

Ion Ratio Lower Upper

202 100

200 20.8 16.6 24.8

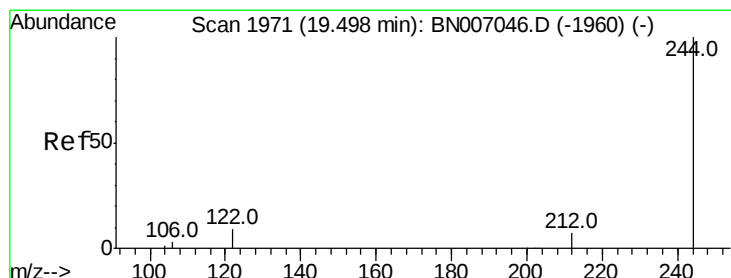
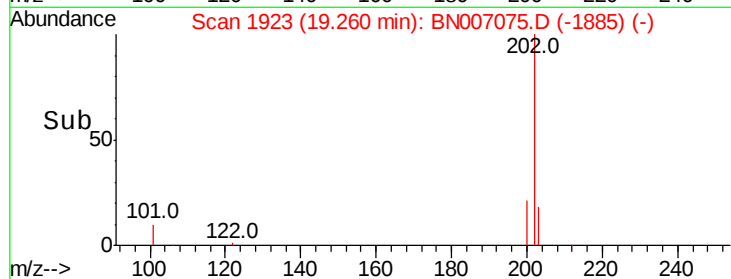
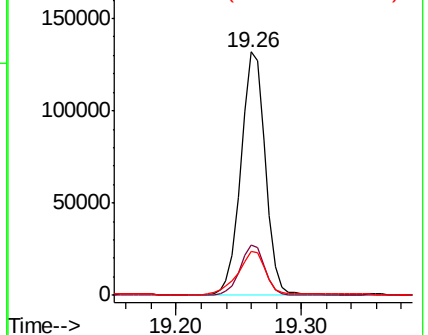
203 21.1 14.0 21.0#



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: 0.137 ng

RT: 19.49 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

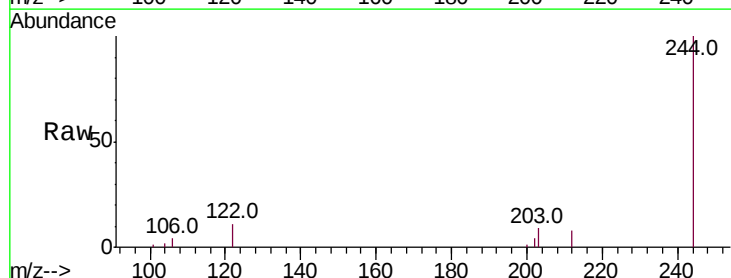
Tgt Ion:244 Resp: 21981

Ion Ratio Lower Upper

244 100

212 8.2 6.2 9.2

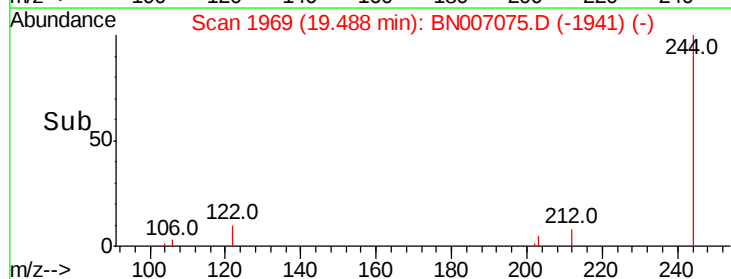
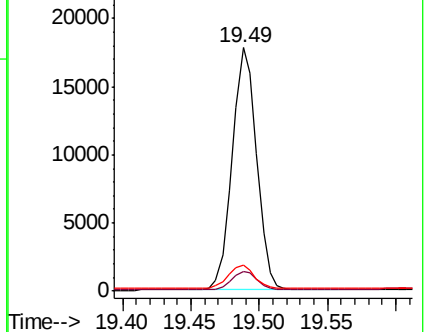
122 10.7 7.4 11.2

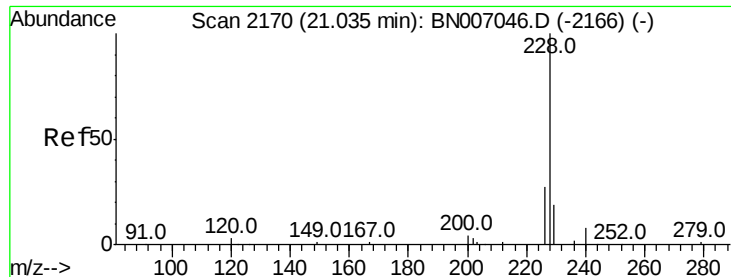


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#29

Benzo(a)anthracene

Concen: 0.496 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

Instrument :

BNA_N

ClientSampled :

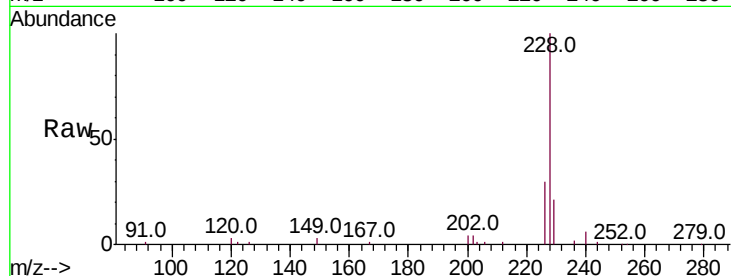
Tot Ion:228 Resp: 106964

Ion Ratio Lower Upper

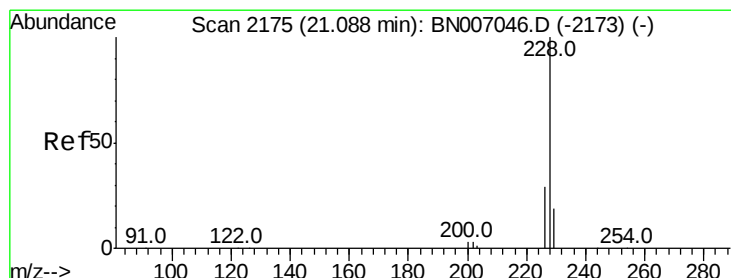
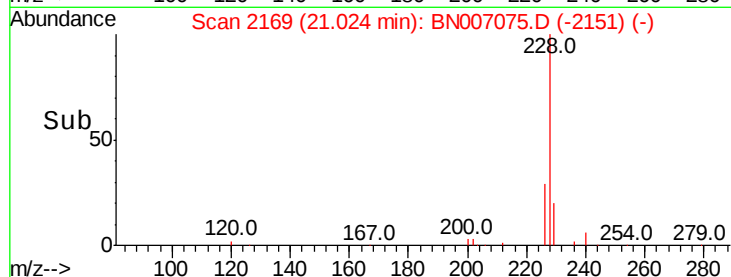
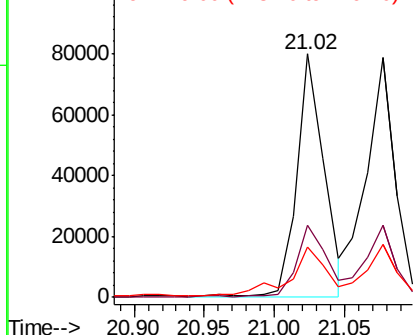
228 100

226 29.8 21.8 32.6

229 20.6 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: 0.532 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

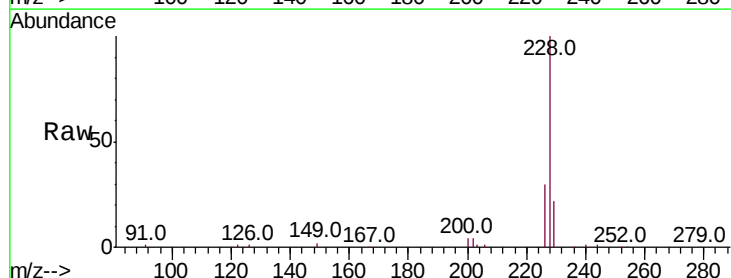
Tgt Ion:228 Resp: 111433

Ion Ratio Lower Upper

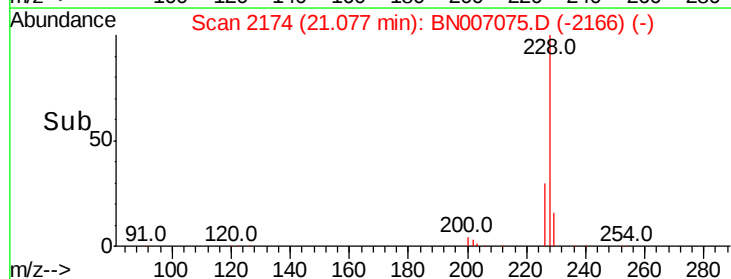
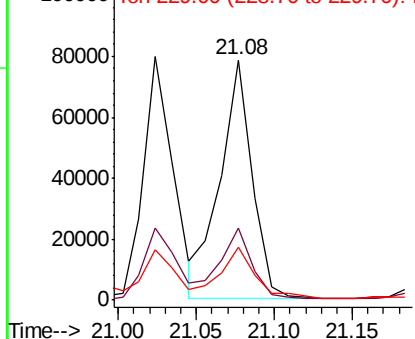
228 100

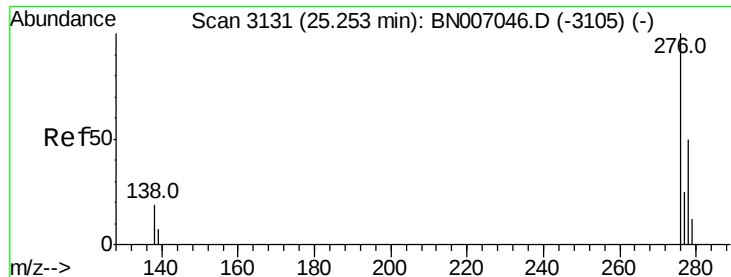
226 29.9 23.8 35.6

229 22.0 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

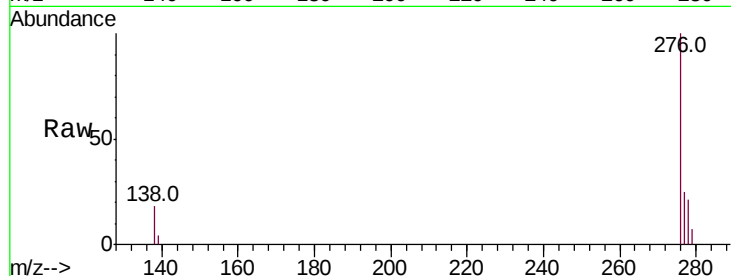




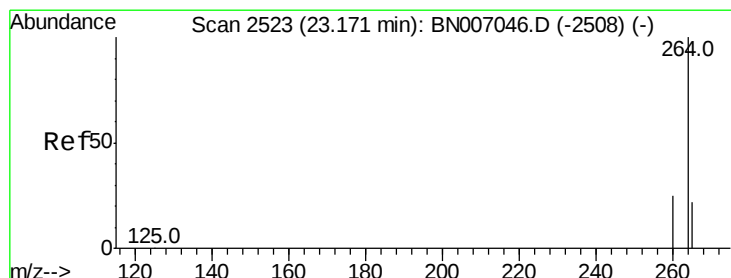
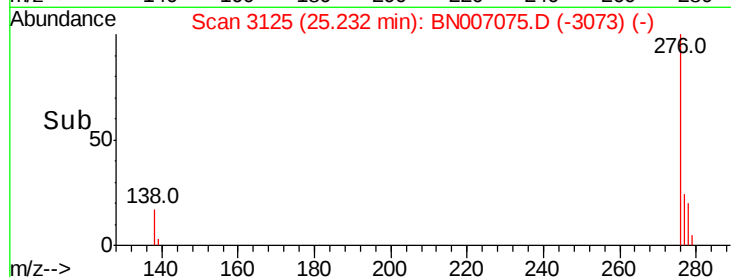
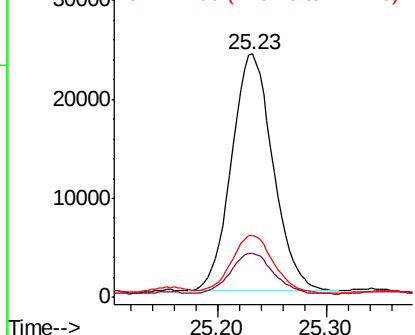
#31
 Indeno(1,2,3-cd)pyrene
 Concen: 0.275 ng
 RT: 25.23 min Scan# 3125
 Delta R.T. -0.02 min
 Lab File: BN007075.D
 Acq: 11 Aug 2019 08:00

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:276 Resp: 63570
 Ion Ratio Lower Upper
 276 100
 138 17.9 16.0 24.0
 277 24.8 19.9 29.9

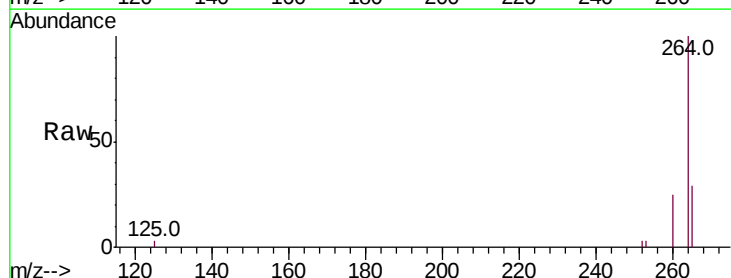


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

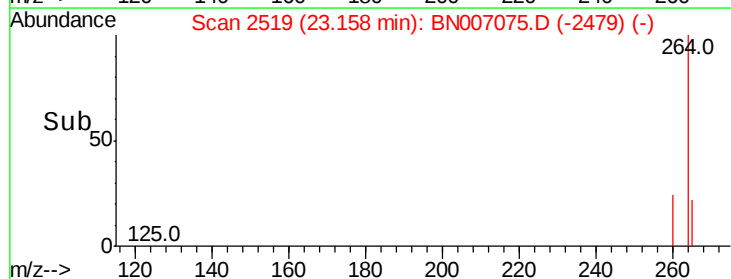
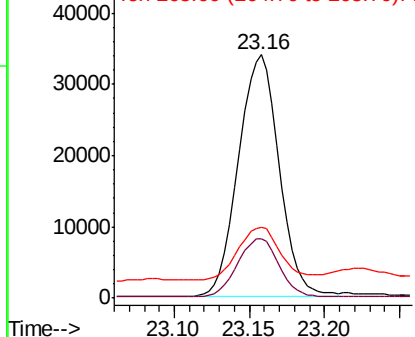


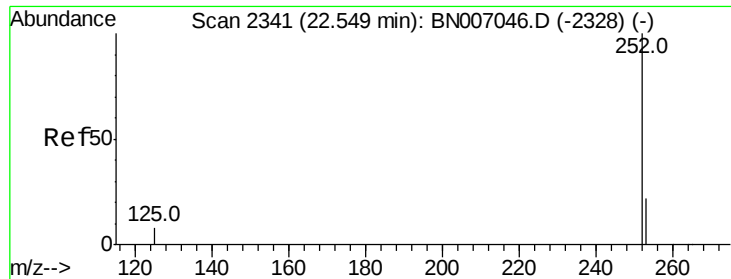
#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.16 min Scan# 2519
 Delta R.T. -0.01 min
 Lab File: BN007075.D
 Acq: 11 Aug 2019 08:00

Tgt Ion:264 Resp: 62812
 Ion Ratio Lower Upper
 264 100
 260 24.5 19.8 29.8
 265 29.3 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: 0.661 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.01 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

Instrument :

BNA_N

ClientSampleId :

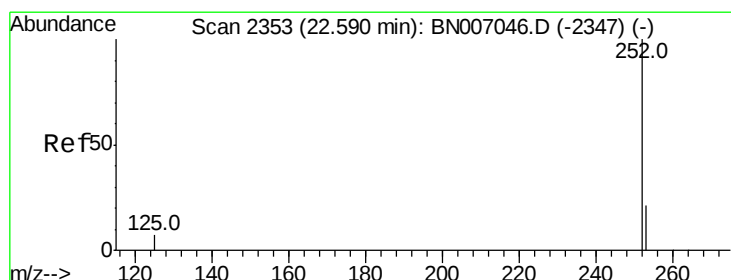
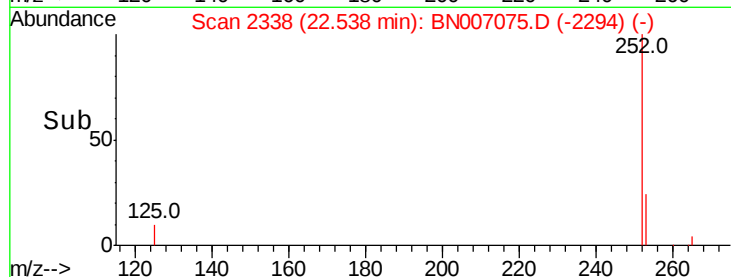
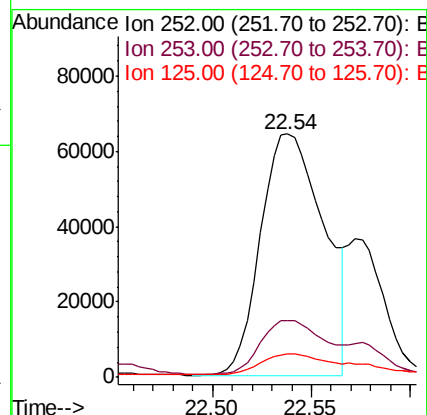
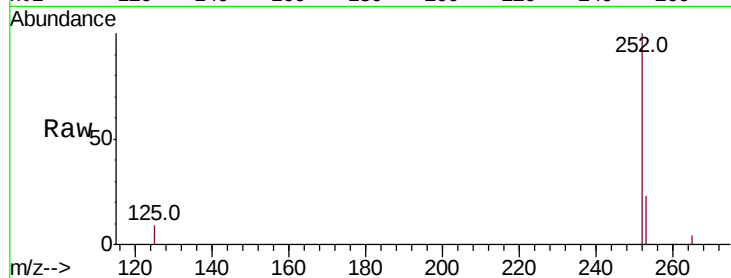
Tot Ion:252 Resp: 142458

Ion Ratio Lower Upper

252 100

253 23.4 18.2 27.2

125 9.5 7.4 11.0



#34

Benzo(k)fluoranthene

Concen: 0.670 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.05 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

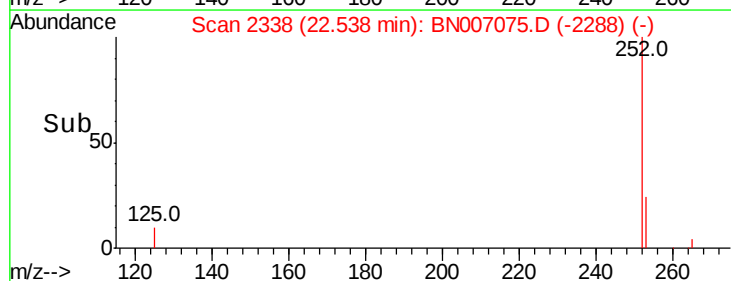
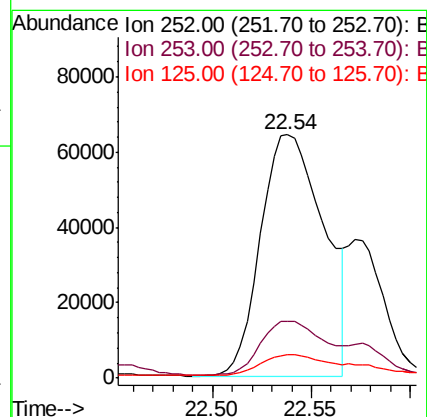
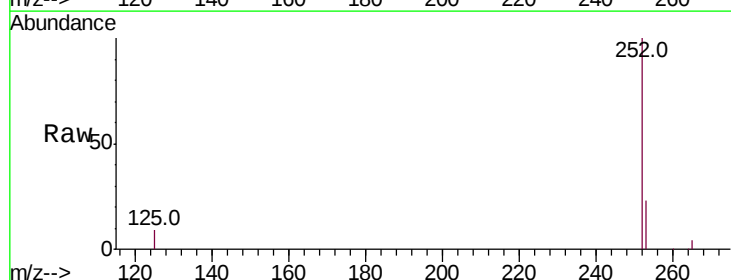
Tgt Ion:252 Resp: 142458

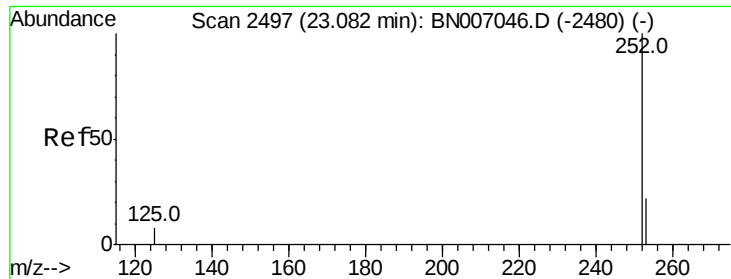
Ion Ratio Lower Upper

252 100

253 23.4 18.1 27.1

125 9.5 7.4 11.0





#35

Benzo(a)pyrene

Concen: 0.472 ng

RT: 23.07 min Scan# 2492

Delta R.T. -0.02 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

Instrument :

BNA_N

ClientSampleId :

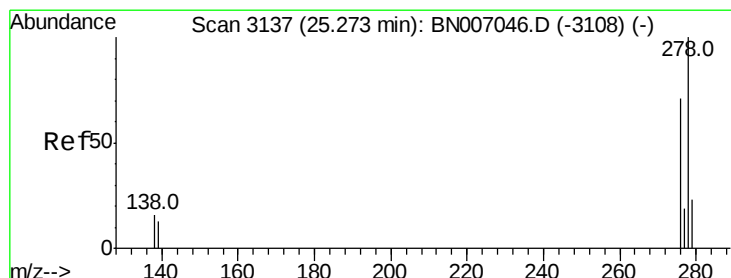
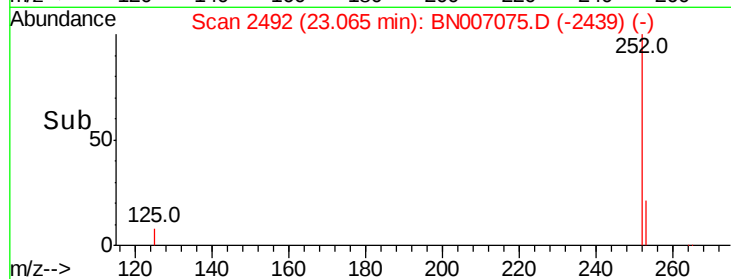
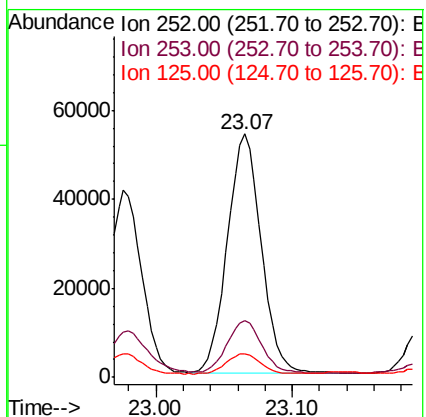
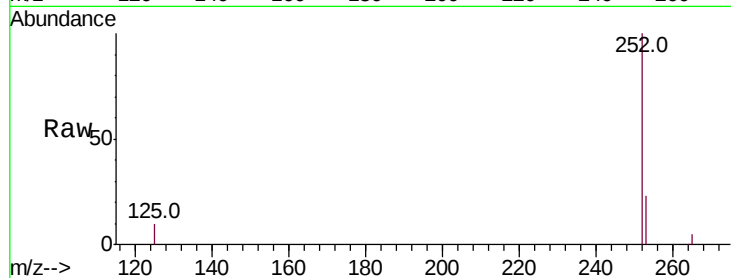
Tot Ion:252 Resp: 92190

Ion Ratio Lower Upper

252 100

253 23.5 18.5 27.7

125 9.8 8.2 12.4



#36

Dibenzo(a,h)anthracene

Concen: 0.089 ng

RT: 25.24 min Scan# 3128

Delta R.T. -0.03 min

Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

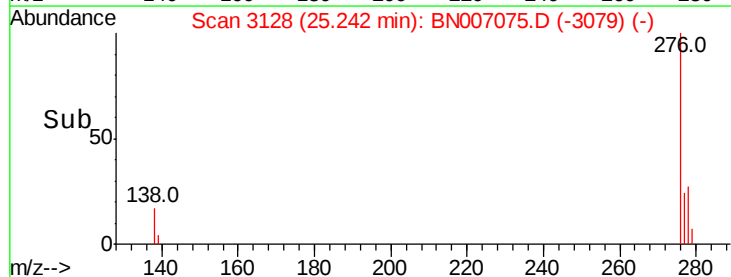
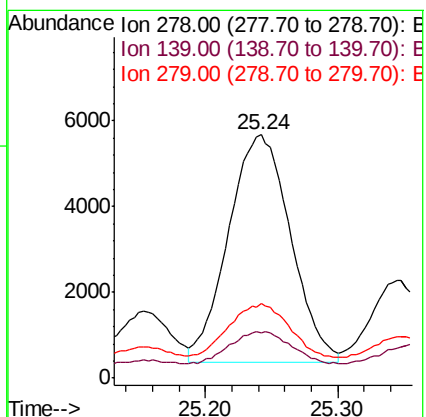
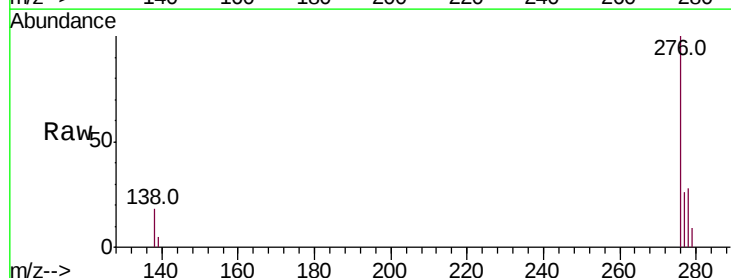
Tgt Ion:278 Resp: 17366

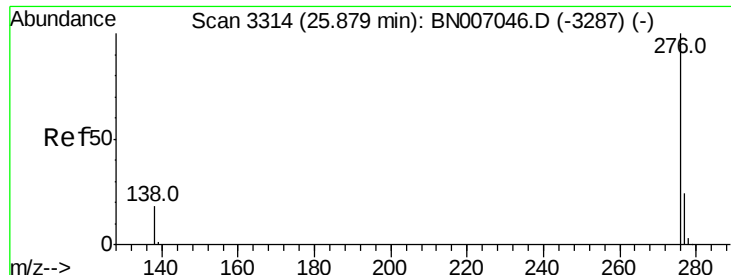
Ion Ratio Lower Upper

278 100

139 18.7 11.3 16.9#

279 30.6 19.3 28.9#





#37

Benzo(a,h,i)perylene

Concen: 0.322 ng

RT: 25.86 min Scan# 3309

Delta R.T. -0.02 min

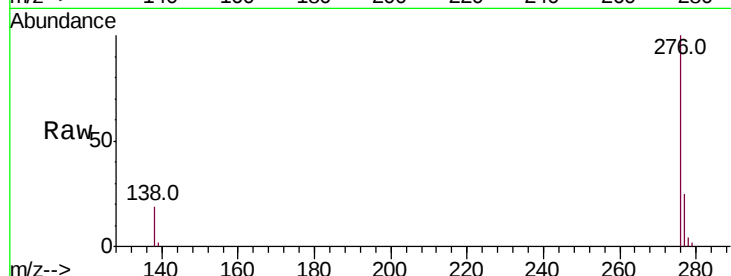
Lab File: BN007075.D

Acq: 11 Aug 2019 08:00

Instrument :

BNA_N

ClientSampleId :



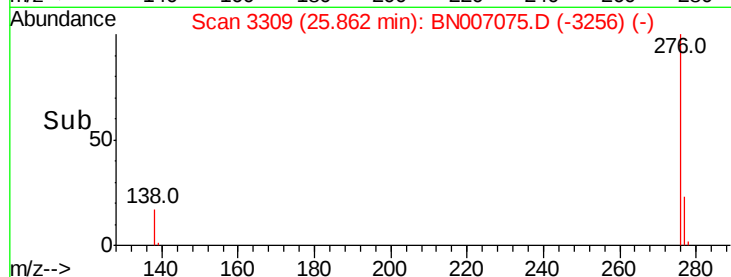
Tot Ion:276 Resp: 64583

Ion Ratio Lower Upper

276 100

277 25.0 19.8 29.8

138 18.6 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

