

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN081319\
 Data File : BN007162.D
 Acq On : 14 Aug 2019 10:33
 Operator : HP/JU
 Sample : K4239-15
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-034-B232-080519

Quant Time: Aug 14 13:15:02 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	8396	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	32679	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	19172	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	42637	0.40	ng	0.00
26) Chrysene-d12	21.05	240	41519	0.40	ng	-0.01
32) Perylene-d12	23.16	264	51690	0.40	ng	0.00

System Monitoring Compounds

3) 2-Fluorophenol	5.06	112	5637	0.28	ng	0.00
4) Phenol-d6	6.62	99	7443	0.30	ng	0.00
7) Nitrobenzene-d5	8.56	82	5736	0.22	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	11975	0.20	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2212	0.21	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3418	0.12	ng	0.00
24) Fluoranthene-d10	18.87	212	28112m	0.19	ng	0.00
28) Terphenyl-d14	19.49	244	21925	0.19	ng	-0.01

Target Compounds

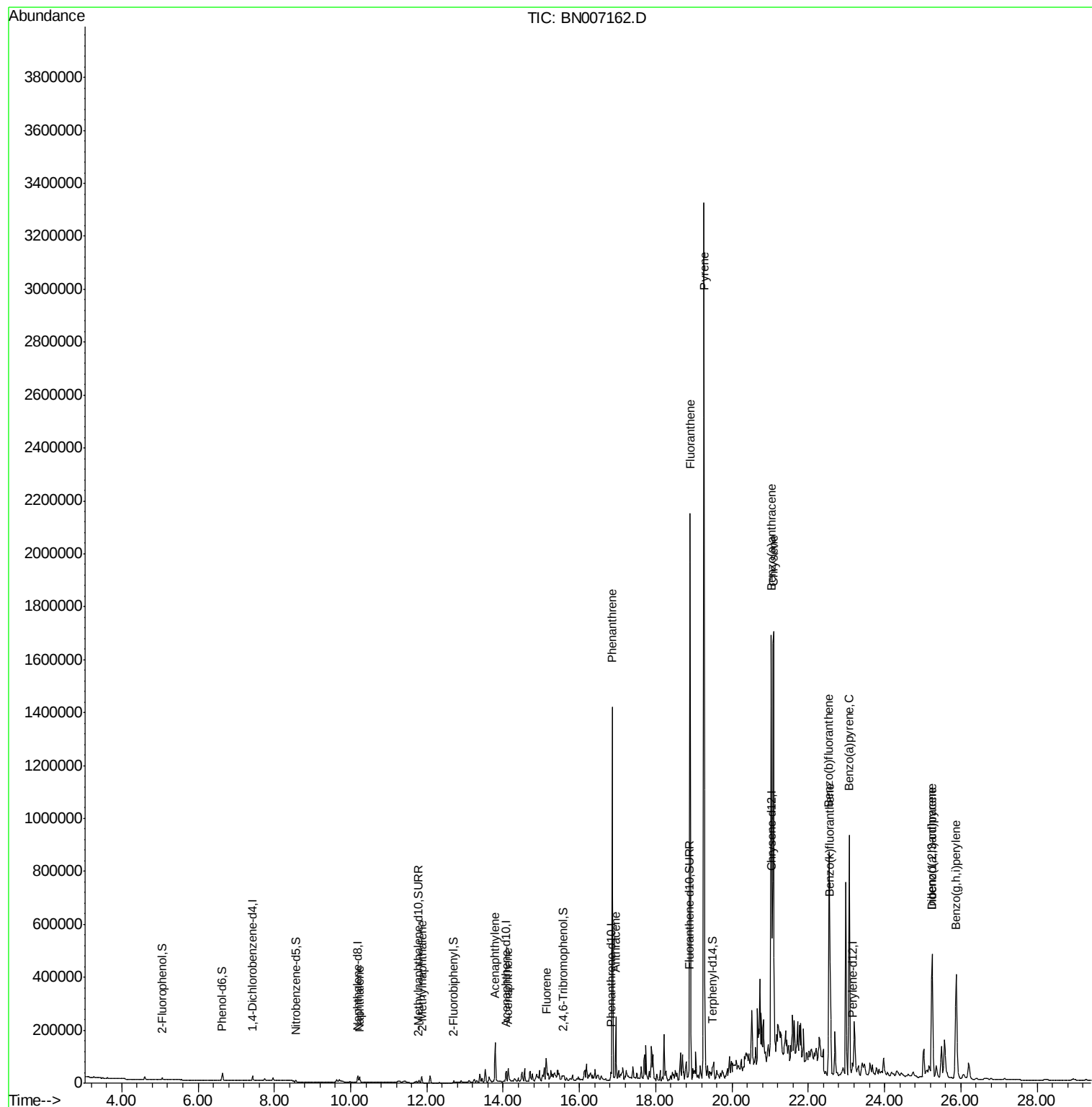
						Qvalue
8) Naphthalene	10.24	128	23315	0.254	ng	100
11) 2-Methylnaphthalene	11.87	142	18490	0.285	ng	96
15) Acenaphthylene	13.79	152	195404	1.950	ng	99
16) Acenaphthene	14.13	154	29367	0.458	ng	94
17) Fluorene	15.13	166	62961	0.656	ng	85
22) Phenanthrene	16.87	178	1353354	10.591	ng	99
23) Anthracene	16.96	178	272293	2.332	ng	99
25) Fluoranthene	18.90	202	2005301	12.268	ng	98
27) Pyrene	19.26	202	3047169	20.928	ng	# 96
29) Benzo(a)anthracene	21.03	228	1564210	10.302	ng	91
30) Chrysene	21.09	228	1622883	11.001	ng	97
31) Indeno(1,2,3-cd)pyrene	25.25	276	686092	4.220	ng	99
33) Benzo(b)fluoranthene	22.54	252	1418684m	8.004	ng	
34) Benzo(k)fluoranthene	22.57	252	471771m	2.695	ng	
35) Benzo(a)pyrene	23.08	252	1191231	7.413	ng	99
36) Dibenzo(a,h)anthracene	25.25	278	216306	1.349	ng	# 90
37) Benzo(g,h,i)perylene	25.88	276	783772	4.752	ng	99

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN081319\
Data File : BN007162.D
Acq On : 14 Aug 2019 10:33
Operator : HP/JU
Sample : K4239-15
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PST-034-B232-080519

Quant Time: Aug 14 13:15:02 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



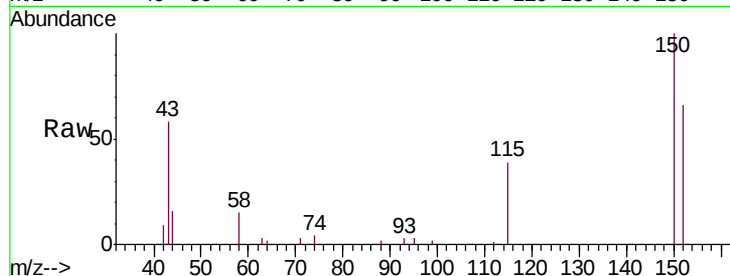


#1

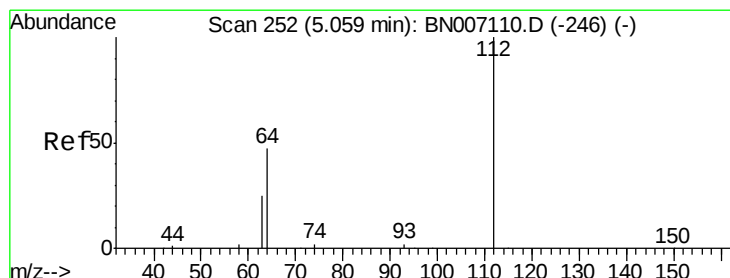
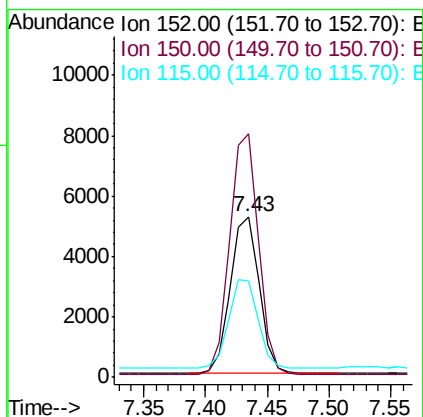
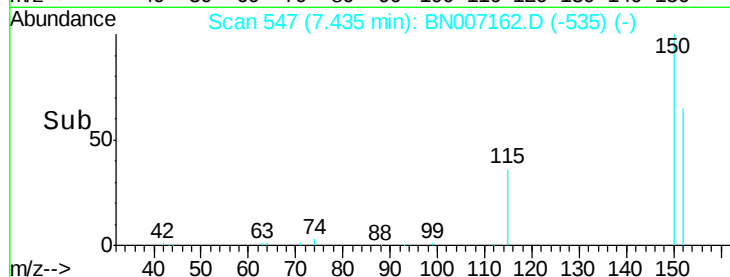
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007162.D
Acq: 14 Aug 2019 10:33

Instrument :
BNA_N
ClientSampleId :
PST-034-B232-080519

Tgt Ion:152 Resp: 8396
Ion Ratio Lower Upper
152 100
150 151.7 121.7 182.5
115 59.8 46.2 69.4



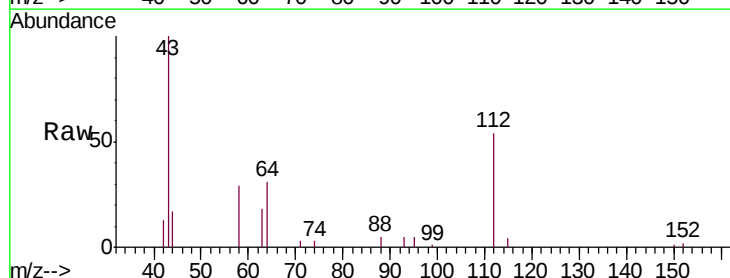
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



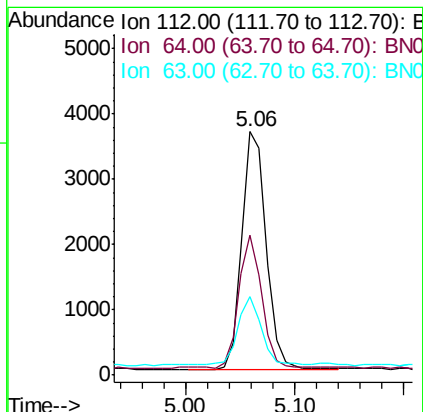
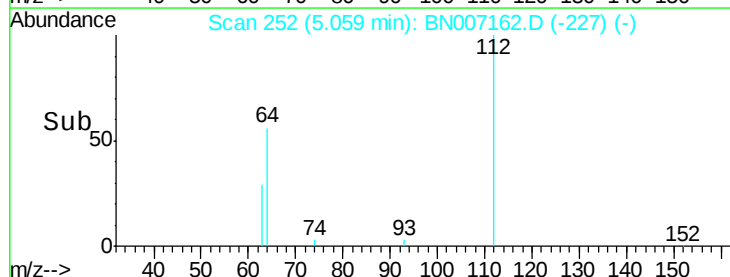
#3

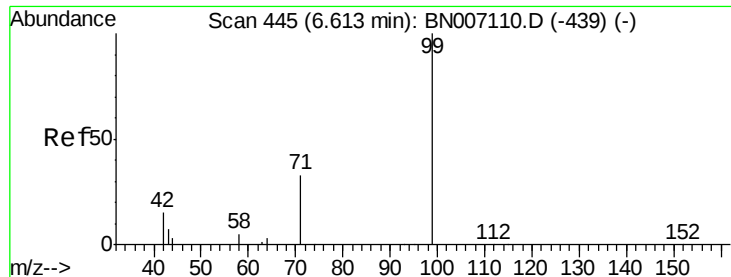
2-Fluorophenol
Concen: 0.279 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007162.D
Acq: 14 Aug 2019 10:33

Tgt Ion:112 Resp: 5637
Ion Ratio Lower Upper
112 100
64 52.7 42.6 63.8
63 28.3 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: 0.298 ng

RT: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

Instrument :

BNA_N

ClientSampleId :

PST-034-B232-080519

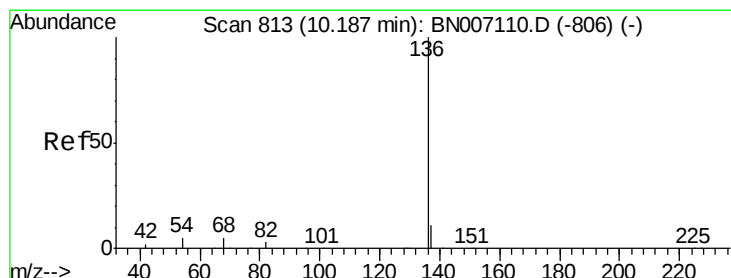
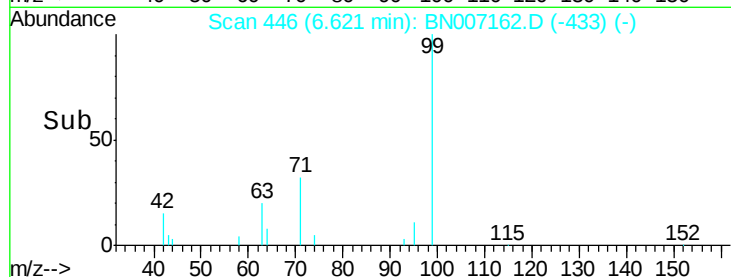
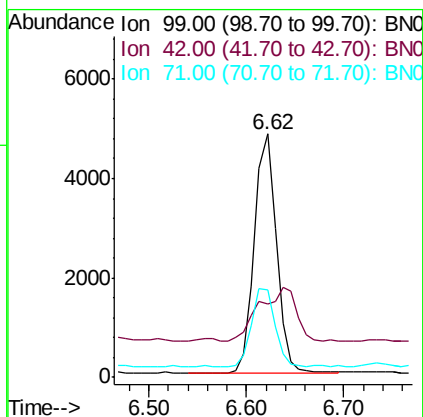
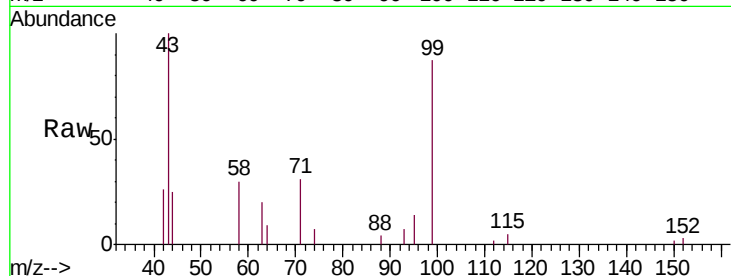
Tgt Ion: 99 Resp: 7443

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

71 35.3 27.0 40.4



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

Tgt Ion: 136 Resp: 32679

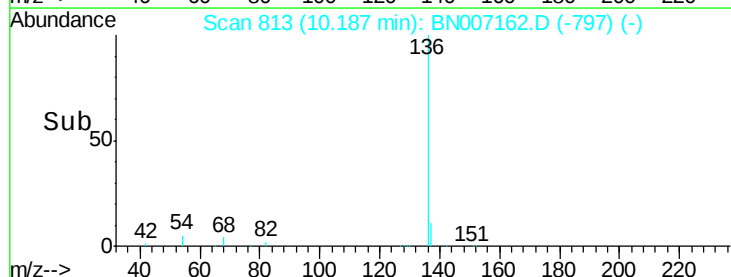
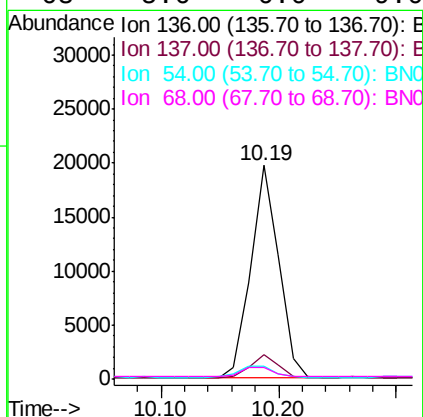
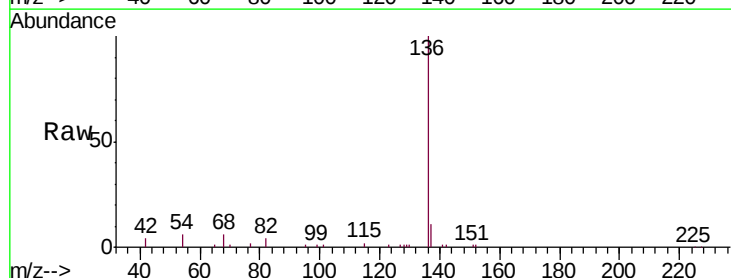
Ion Ratio Lower Upper

136 100

137 11.3 9.4 14.0

54 6.0 6.6 9.8#

68 5.6 6.0 9.0#





#7

Nitrobenzene-d5

Concen: 0.218 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

Instrument :

BNA_N

ClientSampleId :

PST-034-B232-080519

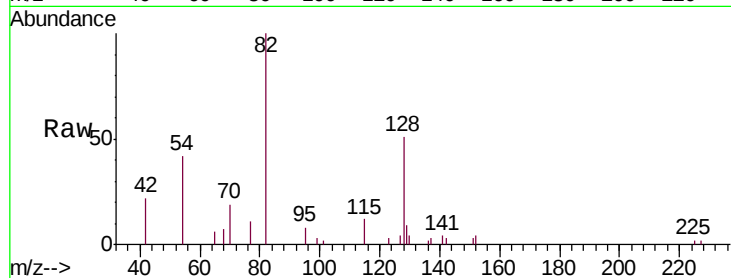
Tgt Ion: 82 Resp: 5736

Ion Ratio Lower Upper

82 100

128 50.9 34.6 51.8

54 42.4 36.2 54.4

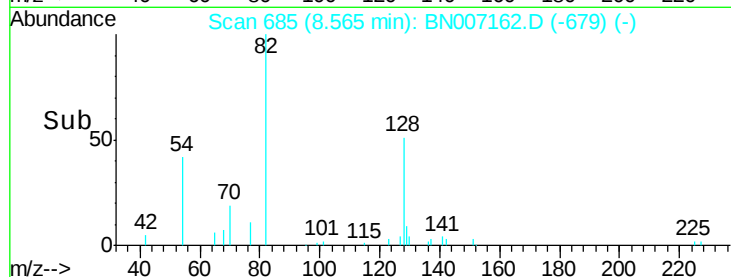


Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

Ion 128.00 (127.70 to 128.70): BN007110.D (-681) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-681) (-)

Time-->

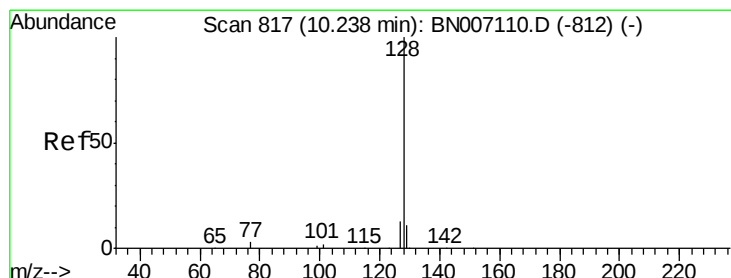


Abundance Ion 82.00 (81.70 to 82.70): BN007162.D (-679) (-)

Ion 128.00 (127.70 to 128.70): BN007162.D (-679) (-)

Ion 54.00 (53.70 to 54.70): BN007162.D (-679) (-)

Time-->



#8

Naphthalene

Concen: 0.254 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

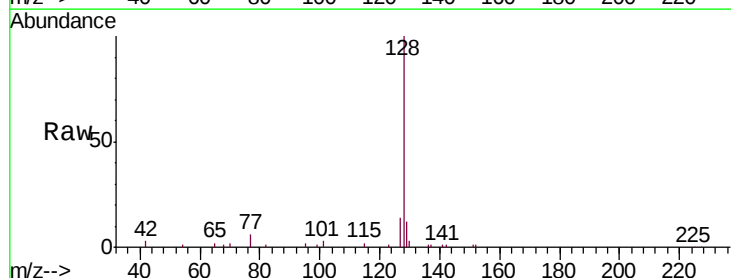
Tgt Ion: 128 Resp: 23315

Ion Ratio Lower Upper

128 100

129 12.2 9.4 14.2

127 13.8 11.0 16.6

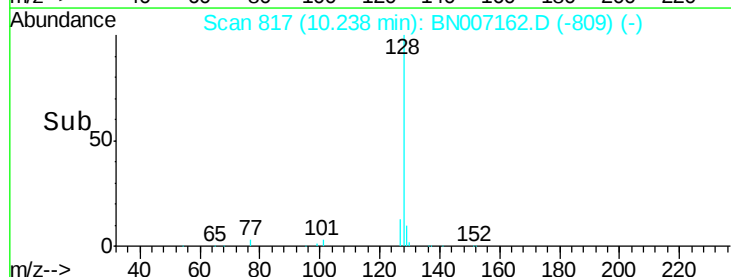


Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

Ion 129.00 (128.70 to 129.70): BN007110.D (-812) (-)

Ion 127.00 (126.70 to 127.70): BN007110.D (-812) (-)

Time-->



Abundance Ion 128.00 (127.70 to 128.70): BN007162.D (-809) (-)

Ion 129.00 (128.70 to 129.70): BN007162.D (-809) (-)

Ion 127.00 (126.70 to 127.70): BN007162.D (-809) (-)

Time-->



#10

2-Methylnaphthalene-d10

Concen: 0.197 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

Instrument :

BNA_N

ClientSampleId :

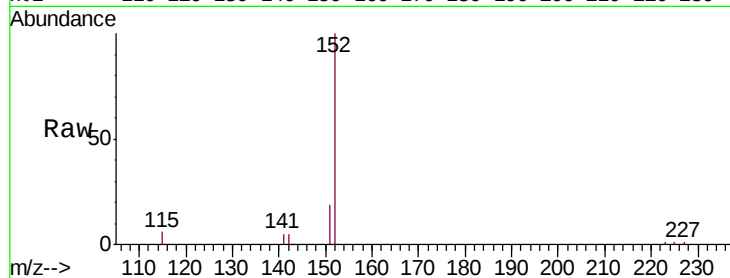
PST-034-B232-080519

Tgt Ion:152 Resp: 11975

Ion Ratio Lower Upper

152 100

151 19.4 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

8000

6000

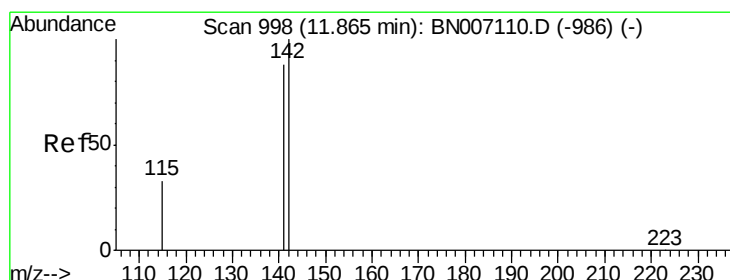
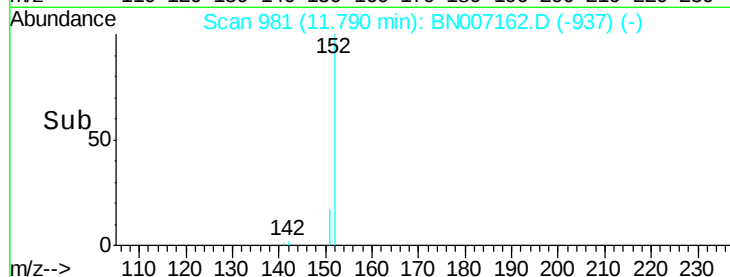
4000

2000

0

11.75 11.80 11.85

Time-->



#11

2-Methylnaphthalene

Concen: 0.285 ng

RT: 11.87 min Scan# 998

Delta R.T. -0.00 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

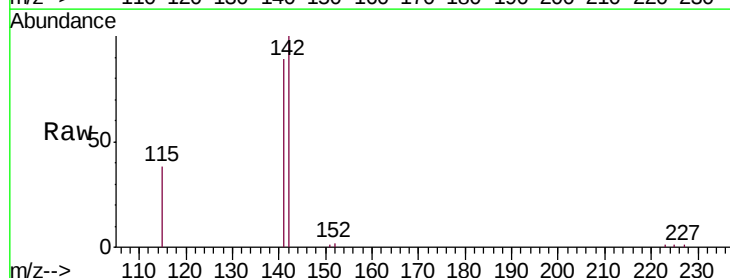
Tgt Ion:142 Resp: 18490

Ion Ratio Lower Upper

142 100

141 89.2 69.0 103.6

115 38.3 27.1 40.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

15000

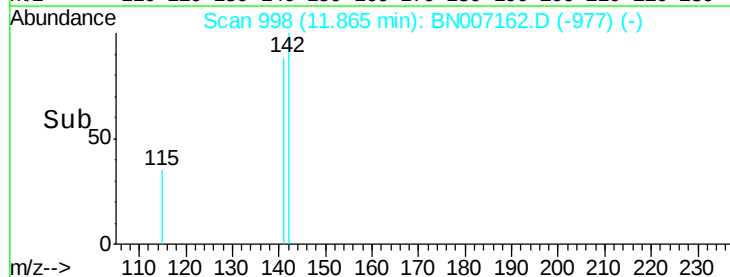
10000

5000

0

11.80 11.90 12.00

Time-->





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

Instrument :

BNA_N

ClientSampleId :

PST-034-B232-080519

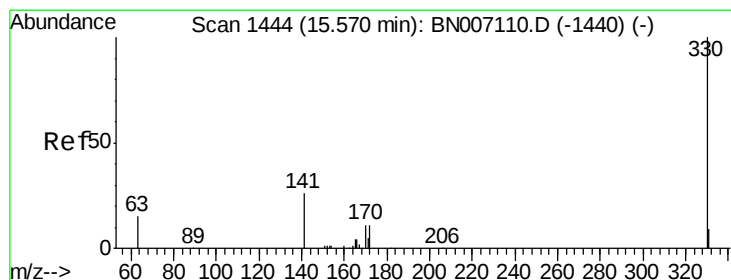
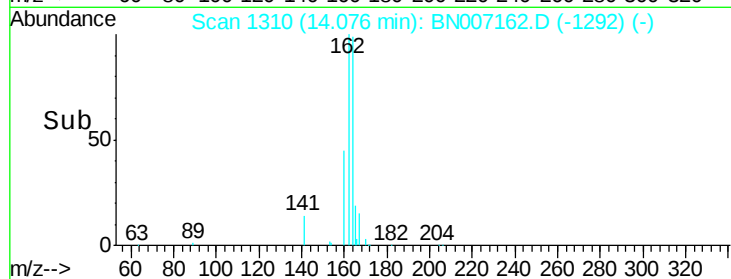
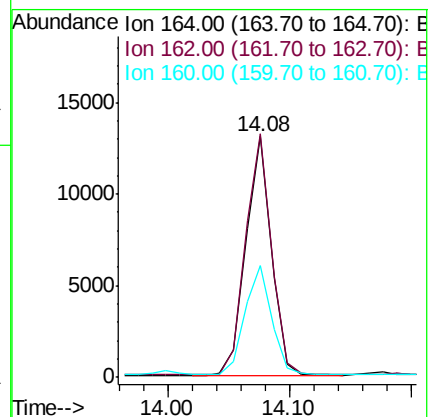
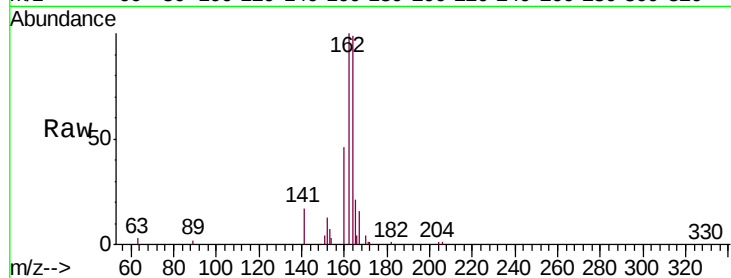
Tgt Ion:164 Resp: 19172

Ion Ratio Lower Upper

164 100

162 101.1 82.2 123.4

160 46.5 38.3 57.5



#13

2,4,6-Tribromophenol

Concen: 0.214 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

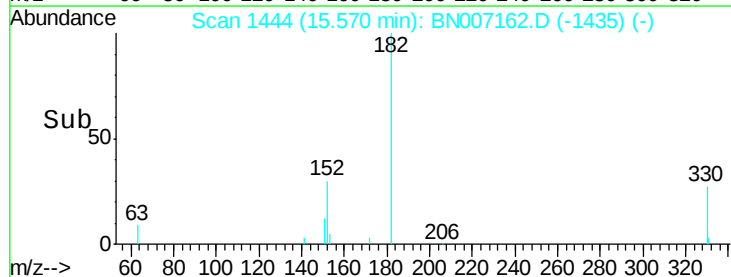
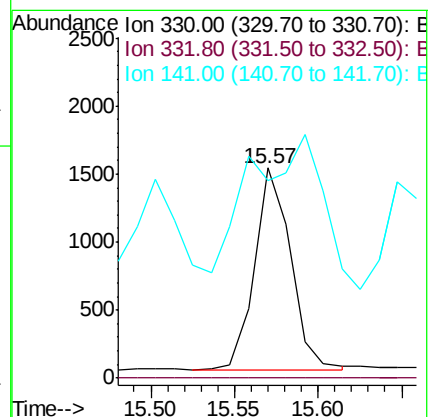
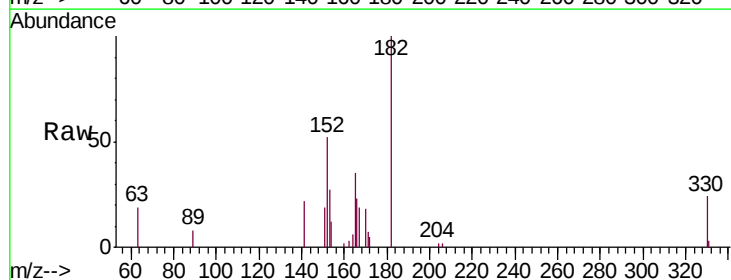
Tgt Ion:330 Resp: 2212

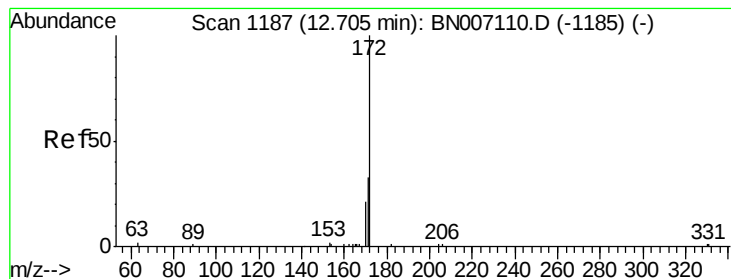
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 0.0 33.6 50.4#

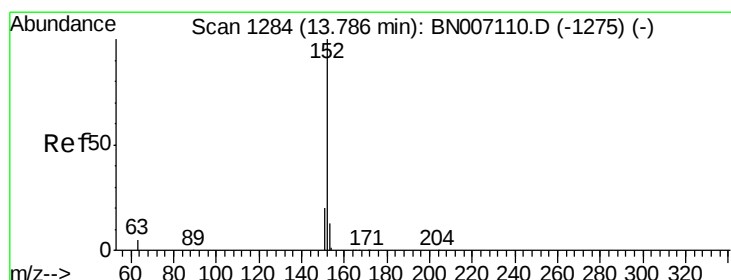
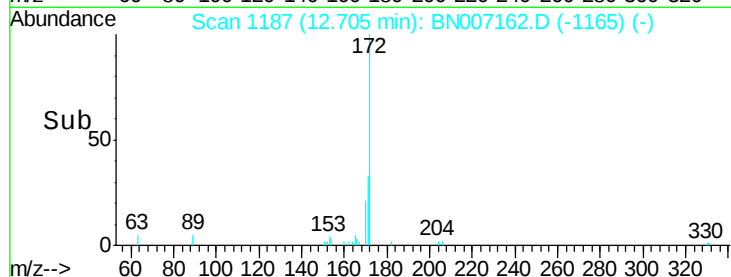
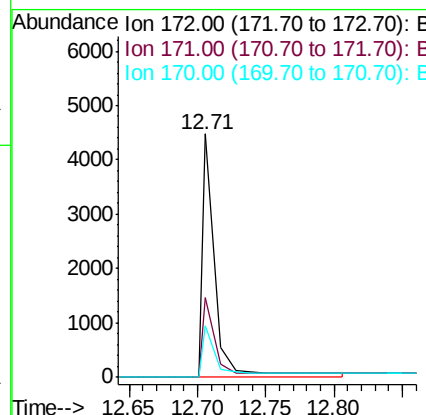
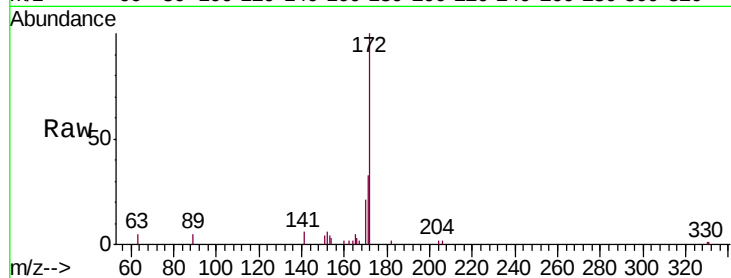




#14
2-Fluorobiphenyl
Concen: 0.123 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007162.D
Acq: 14 Aug 2019 10:33

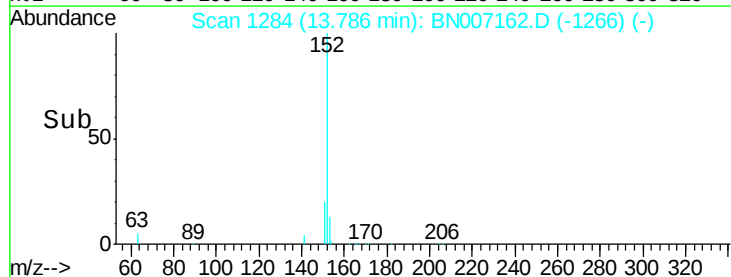
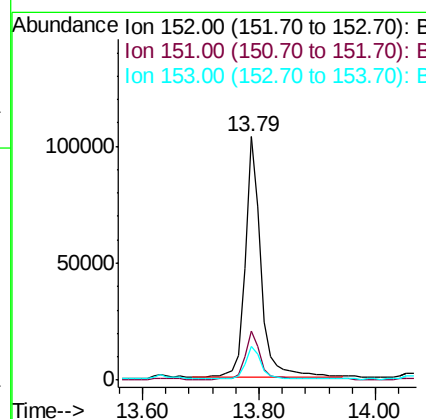
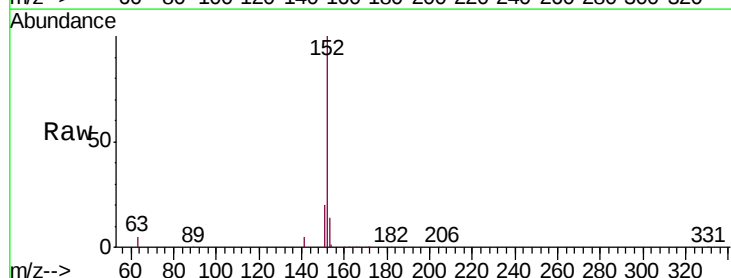
Instrument :
BNA_N
ClientSampleId :
PST-034-B232-080519

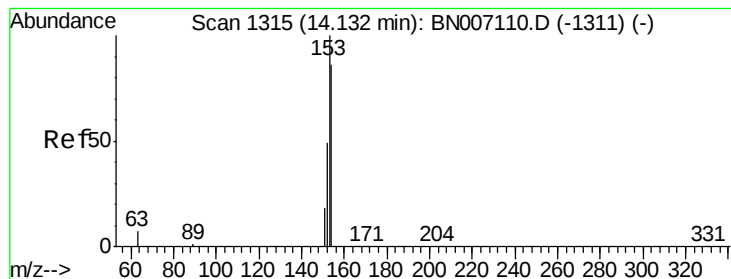
Tgt Ion:172 Resp: 3418
Ion Ratio Lower Upper
172 100
171 33.0 26.3 39.5
170 21.3 17.0 25.4



#15
Acenaphthylene
Concen: 1.950 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007162.D
Acq: 14 Aug 2019 10:33

Tgt Ion:152 Resp: 195404
Ion Ratio Lower Upper
152 100
151 19.5 15.8 23.6
153 13.6 10.4 15.6





#16

Acenaphthene

Concen: 0.458 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

Instrument :

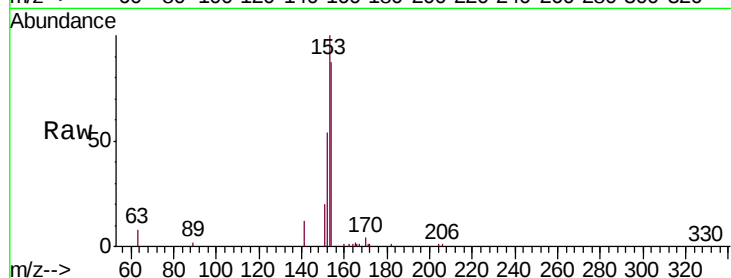
BNA_N

ClientSampleId :

PST-034-B232-080519

Tgt Ion:154 Resp: 29367

Ion	Ratio	Lower	Upper
154	100		
153	120.1	89.5	134.3
152	54.4	44.8	67.2

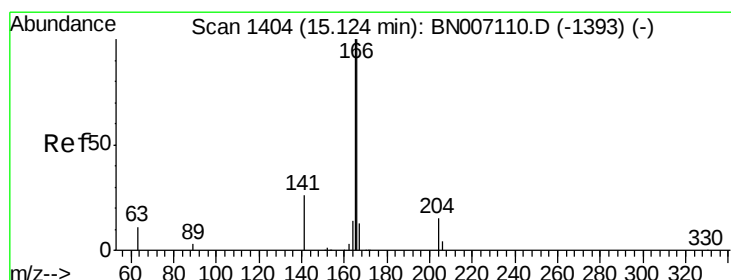
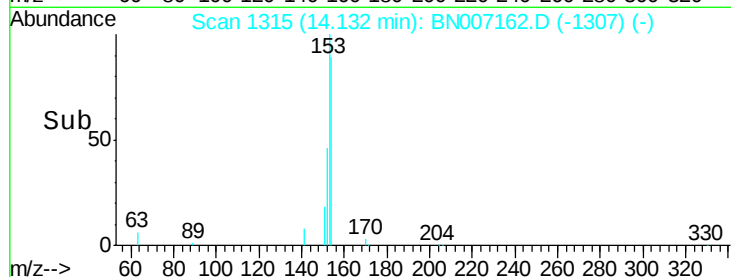
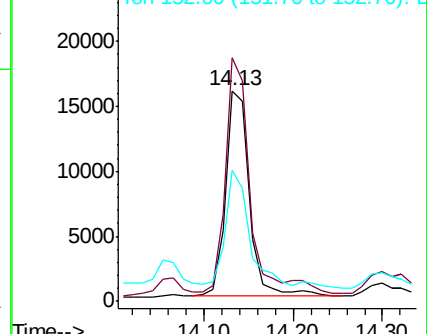


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#17

Fluorene

Concen: 0.656 ng

RT: 15.13 min Scan# 1405

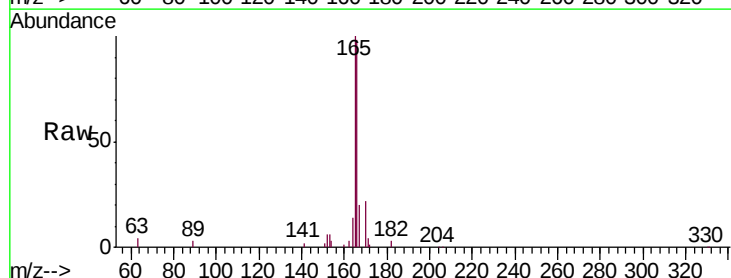
Delta R.T. -0.00 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

Tgt Ion:166 Resp: 62961

Ion	Ratio	Lower	Upper
166	100		
165	113.3	77.9	116.9
167	15.8	10.9	16.3

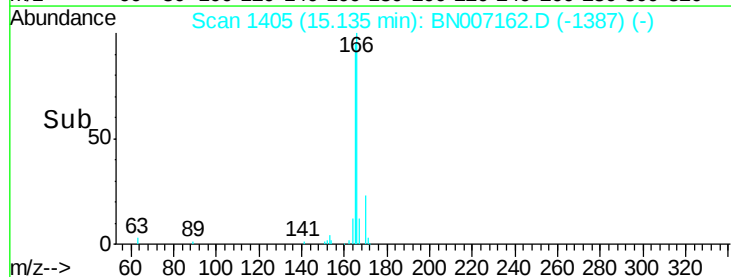
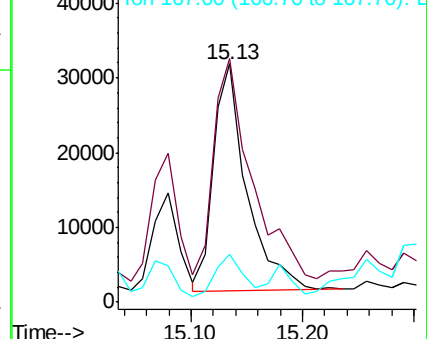


Abundance

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

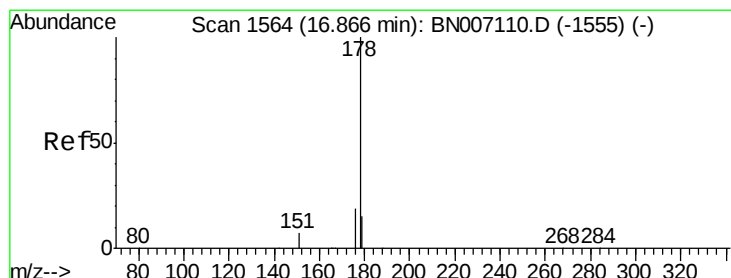
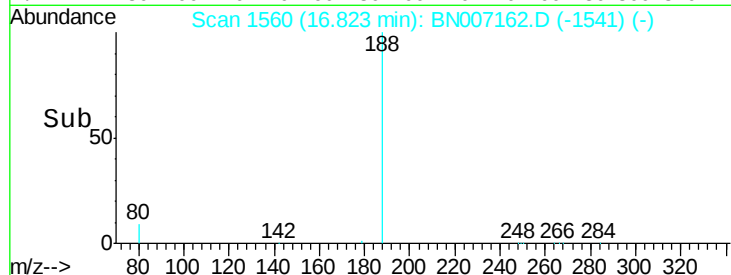
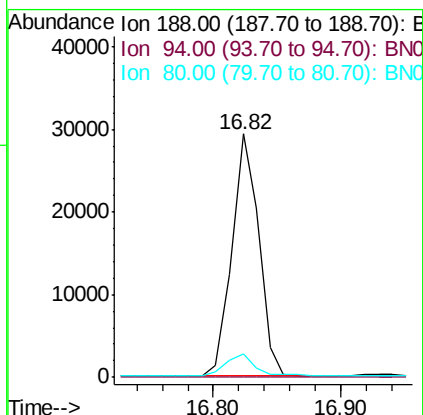
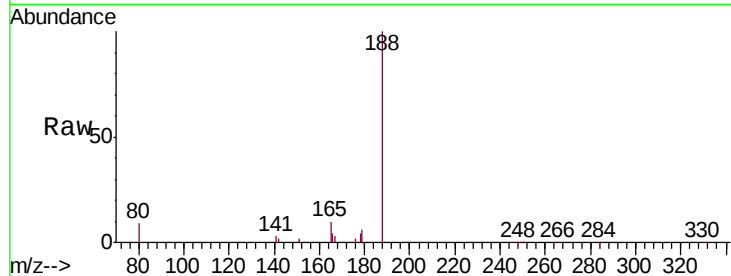




#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007162.D
Acq: 14 Aug 2019 10:33

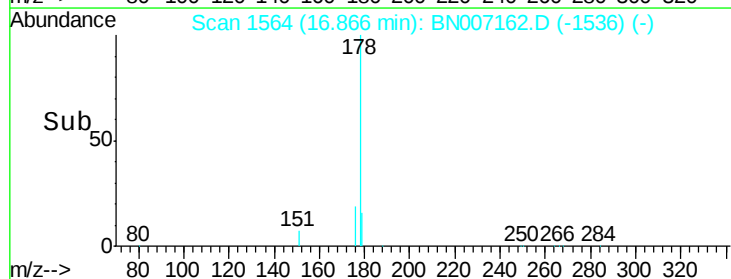
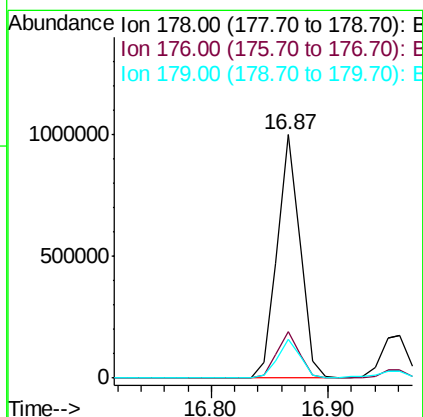
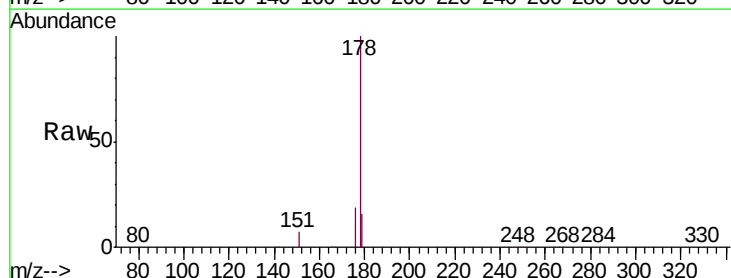
Instrument :
BNA_N
ClientSampleId :
PST-034-B232-080519

Tgt Ion:188 Resp: 42637
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.4 7.8 11.6



#22
Phenanthrene
Concen: 10.591 ng
RT: 16.87 min Scan# 1564
Delta R.T. -0.00 min
Lab File: BN007162.D
Acq: 14 Aug 2019 10:33

Tgt Ion:178 Resp: 1353354
Ion Ratio Lower Upper
178 100
176 18.9 15.2 22.8
179 16.0 12.3 18.5





#23

Anthracene

Concen: 2.332 ng

RT: 16.96 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

Instrument :

BNA_N

ClientSampleId :

PST-034-B232-080519

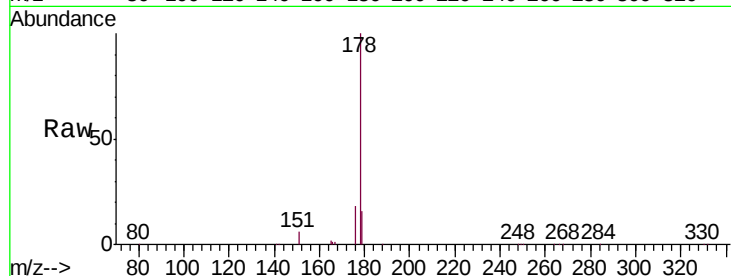
Tgt Ion:178 Resp: 272293

Ion Ratio Lower Upper

178 100

176 18.3 14.6 21.8

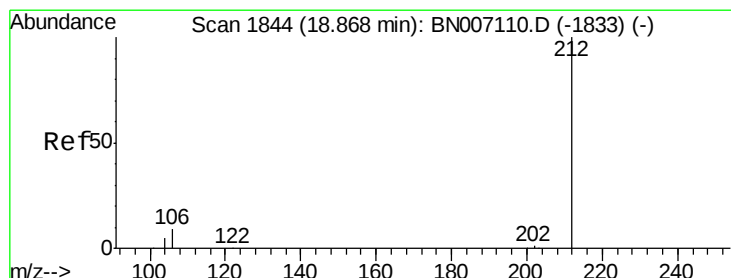
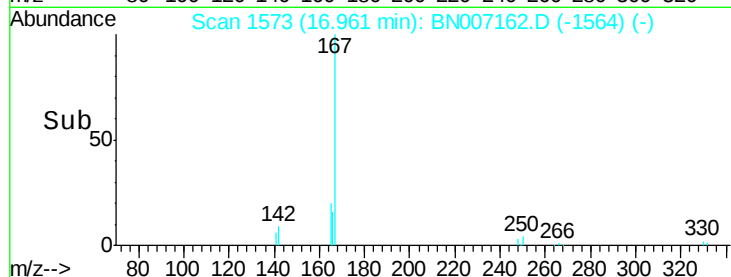
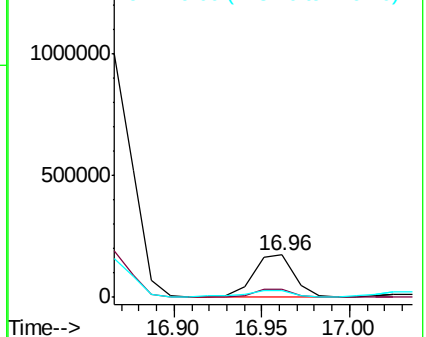
179 16.8 12.5 18.7



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: 0.186 ng m

RT: 18.87 min Scan# 1845

Delta R.T. -0.00 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

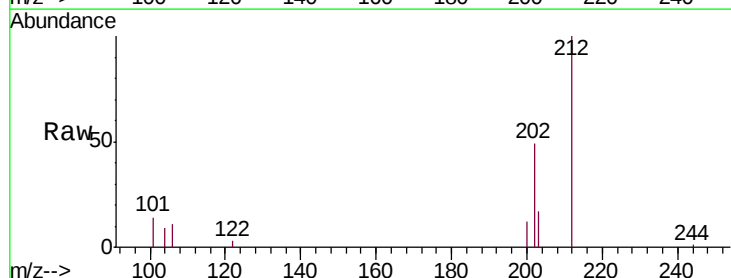
Tgt Ion:212 Resp: 28112

Ion Ratio Lower Upper

212 100

106 2.1 8.2 12.2#

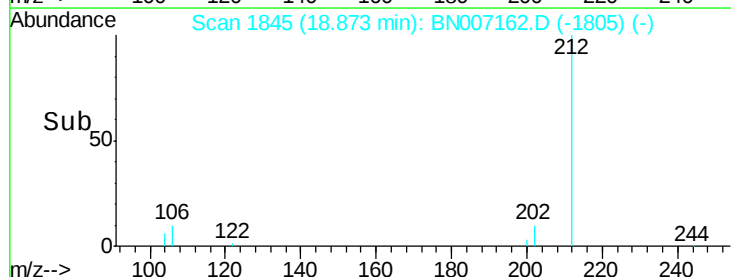
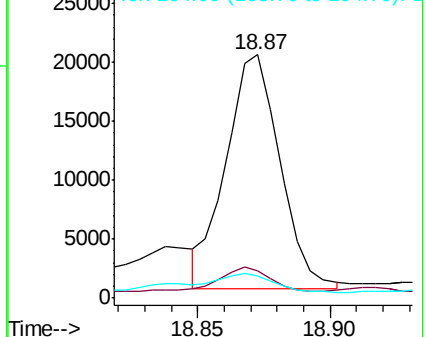
104 1.4 4.5 6.7#

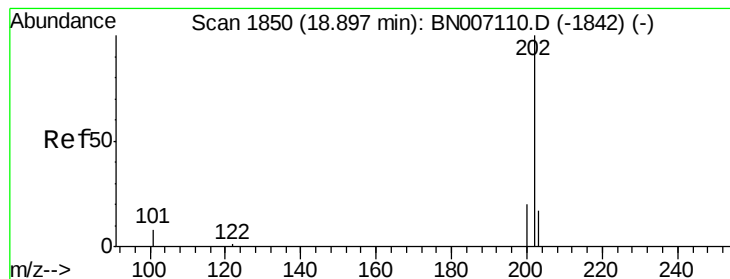


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 12.268 ng

RT: 18.90 min Scan# 1851

Delta R.T. -0.00 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

Instrument :

BNA_N

ClientSampleId :

PST-034-B232-080519

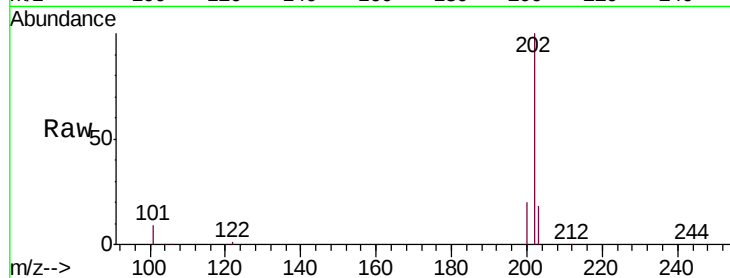
Tgt Ion:202 Resp: 2005301

Ion Ratio Lower Upper

202 100

101 9.1 7.0 10.4

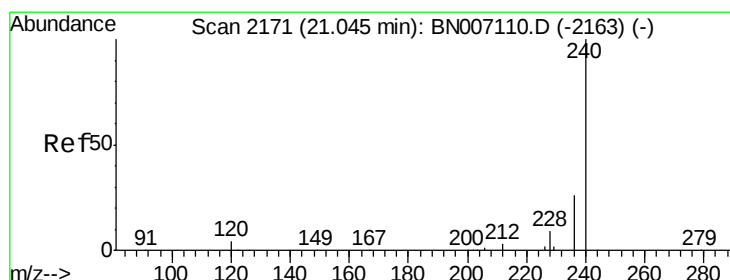
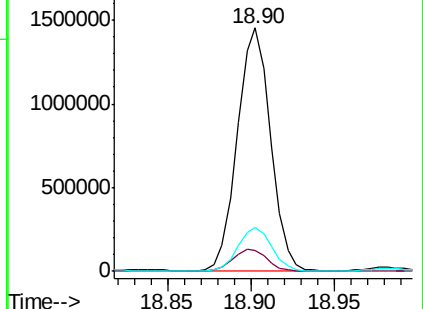
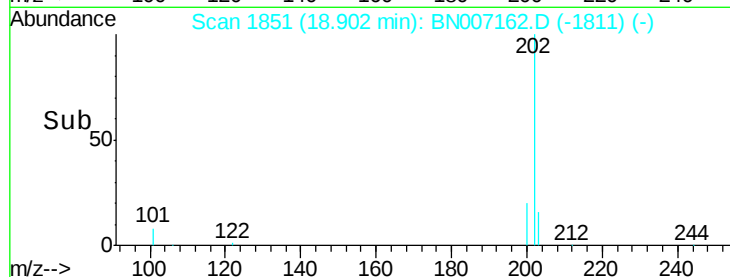
203 18.1 13.8 20.8



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: BN007162.D

Acq: 14 Aug 2019 10:33

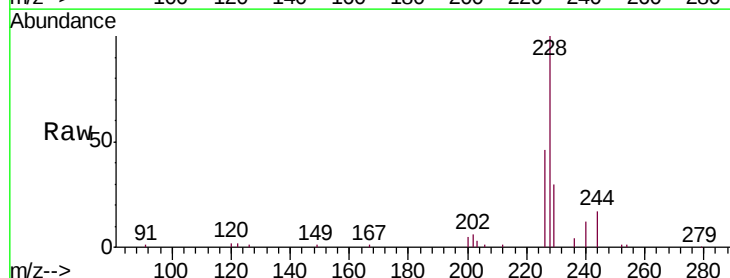
Tgt Ion:240 Resp: 41519

Ion Ratio Lower Upper

240 100

120 13.0 4.0 6.0#

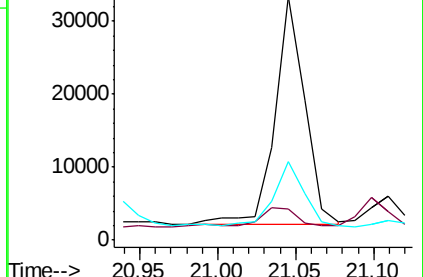
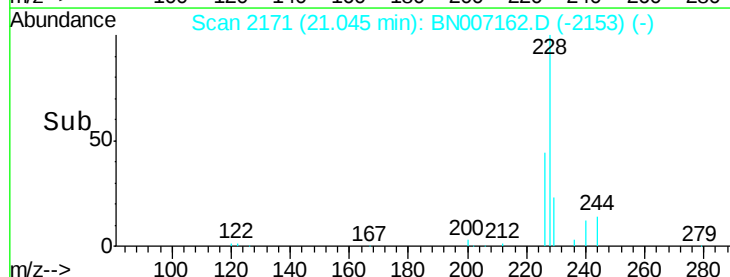
236 32.0 21.3 31.9#

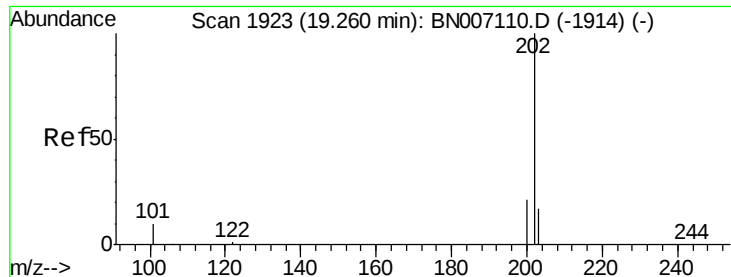


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

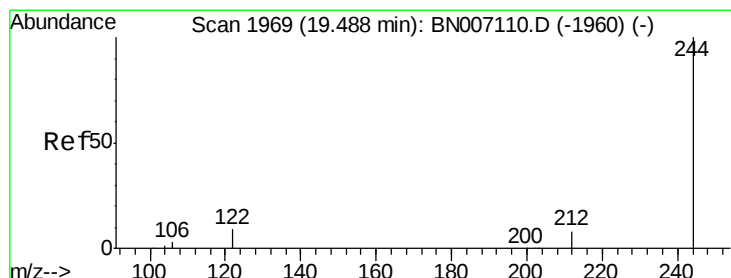
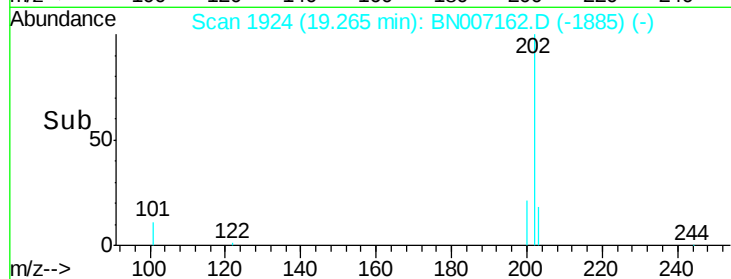
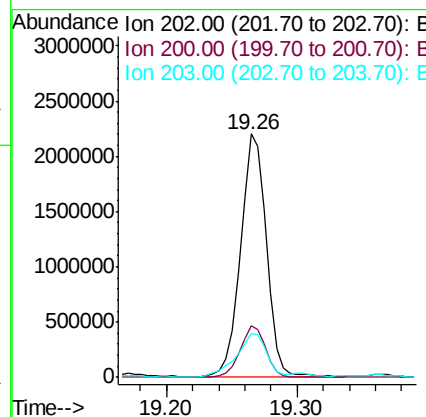
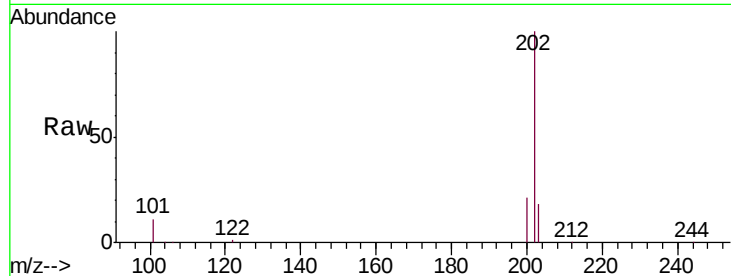




#27
 Pyrene
 Concen: 20.928 ng
 RT: 19.26 min Scan# 1924
 Delta R.T. -0.01 min
 Lab File: BN007162.D
 Acq: 14 Aug 2019 10:33

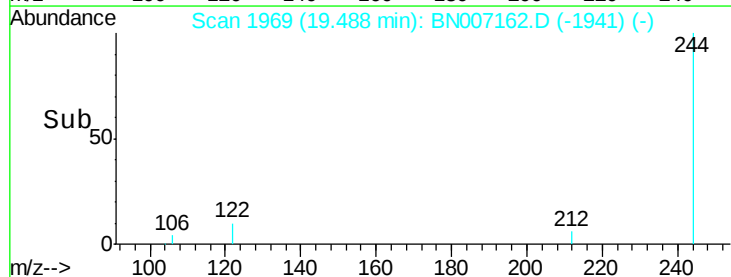
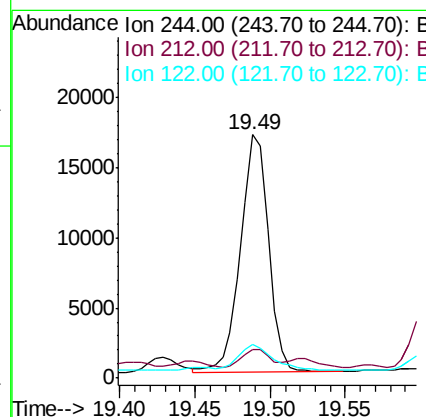
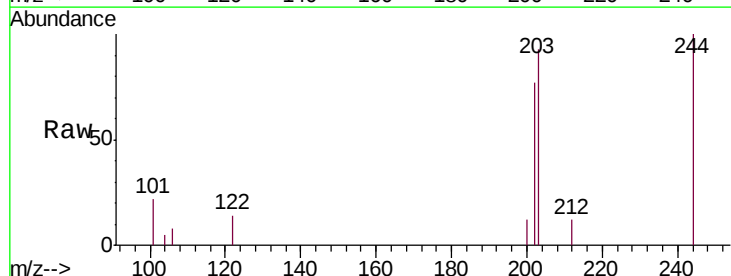
Instrument :
 BNA_N
 ClientSampleId :
 PST-034-B232-080519

Tgt Ion:202 Resp: 3047169
 Ion Ratio Lower Upper
 202 100
 200 21.0 16.6 24.8
 203 21.1 14.0 21.0#



#28
 Terphenyl-d14
 Concen: 0.194 ng
 RT: 19.49 min Scan# 1969
 Delta R.T. -0.01 min
 Lab File: BN007162.D
 Acq: 14 Aug 2019 10:33

Tgt Ion:244 Resp: 21925
 Ion Ratio Lower Upper
 244 100
 212 11.6 6.2 9.2#
 122 13.8 7.4 11.2#





#29

Benzo(a)anthracene

Concen: 10.302 ng

RT: 21.03 min Scan# 2170

Delta R.T. -0.00 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

Instrument :

BNA_N

ClientSampleId :

PST-034-B232-080519

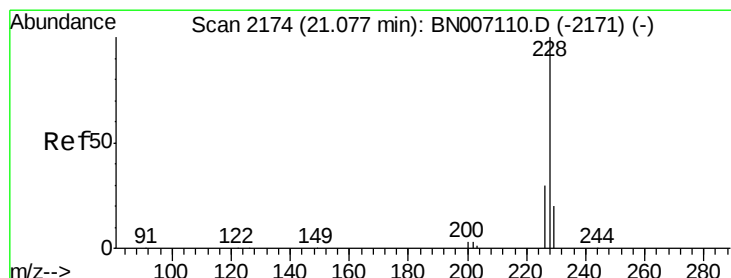
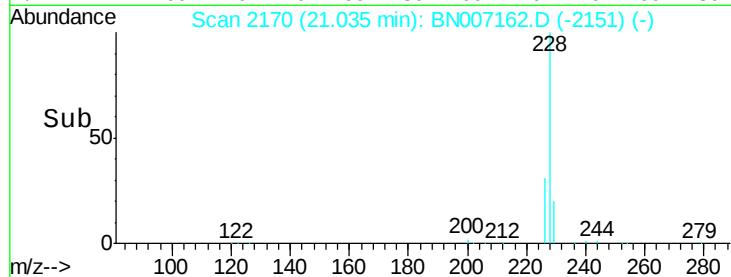
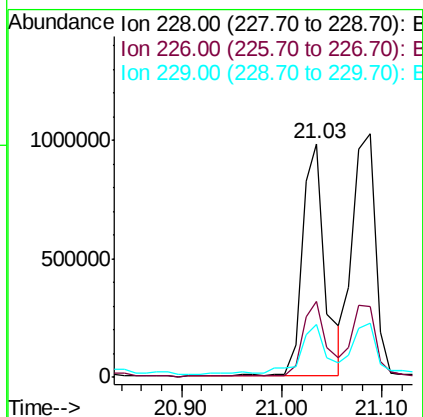
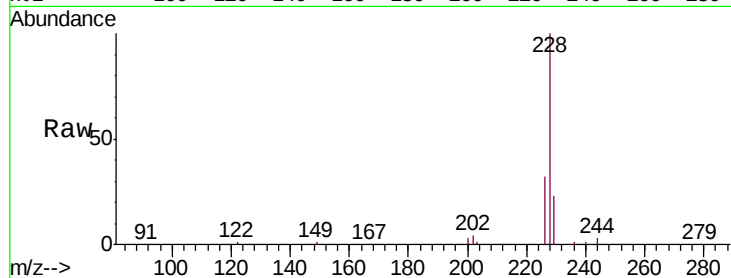
Tgt Ion:228 Resp: 1564210

Ion Ratio Lower Upper

228 100

226 32.4 21.8 32.6

229 22.8 15.6 23.4



#30

Chrysene

Concen: 11.001 ng

RT: 21.09 min Scan# 2175

Delta R.T. -0.00 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

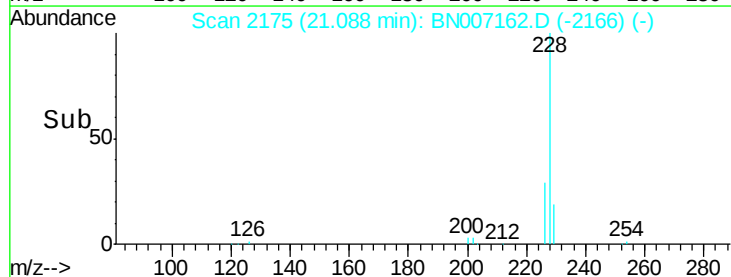
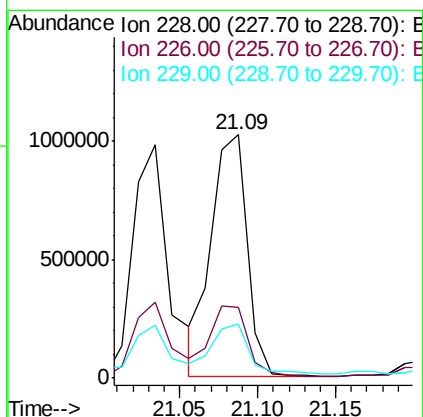
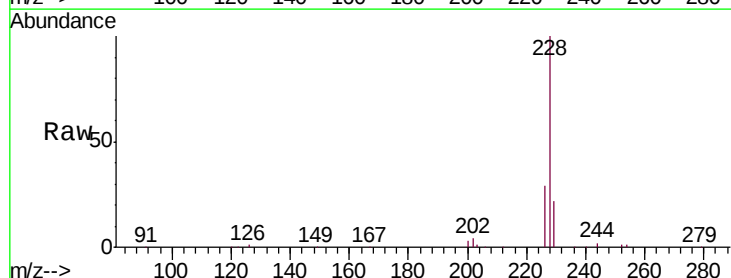
Tgt Ion:228 Resp: 1622883

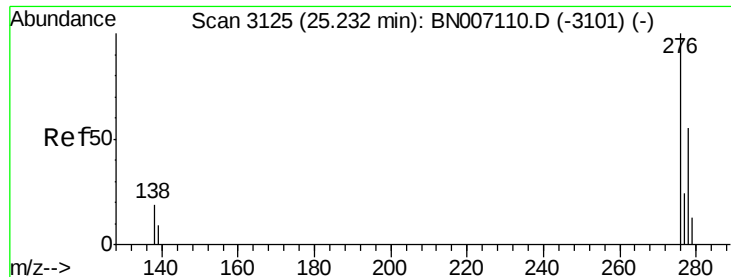
Ion Ratio Lower Upper

228 100

226 29.0 23.8 35.6

229 22.0 15.7 23.5





#31

Indeno(1,2,3-cd)pyrene

Concen: 4.220 ng

RT: 25.25 min Scan# 3129

Delta R.T. -0.01 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

Instrument :

BNA_N

ClientSampleId :

PST-034-B232-080519

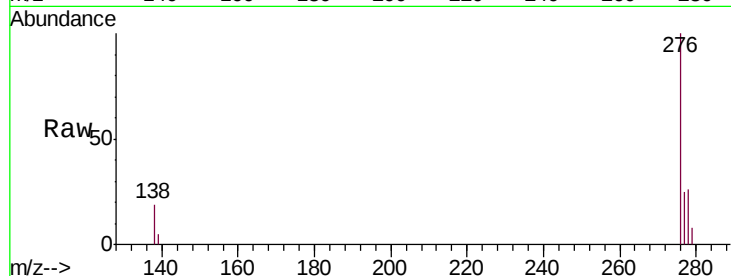
Tgt Ion:276 Resp: 686092

Ion Ratio Lower Upper

276 100

138 18.6 16.0 24.0

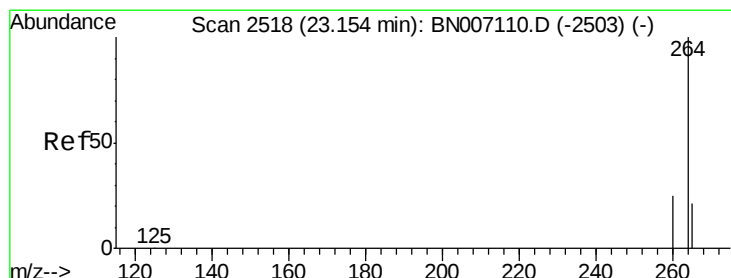
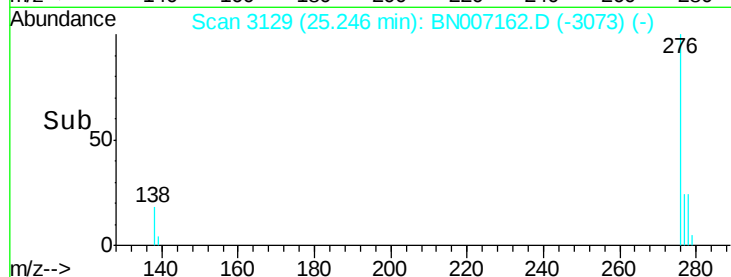
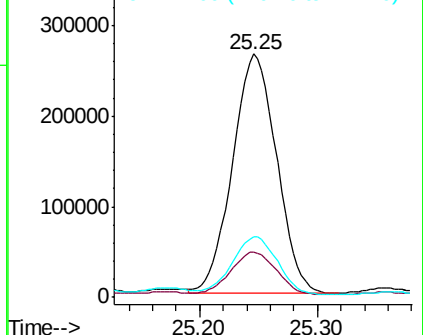
277 25.0 19.9 29.9



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# 2521

Delta R.T. -0.01 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

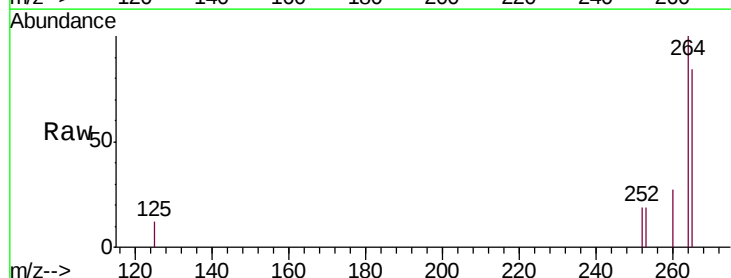
Tgt Ion:264 Resp: 51690

Ion Ratio Lower Upper

264 100

260 27.0 19.8 29.8

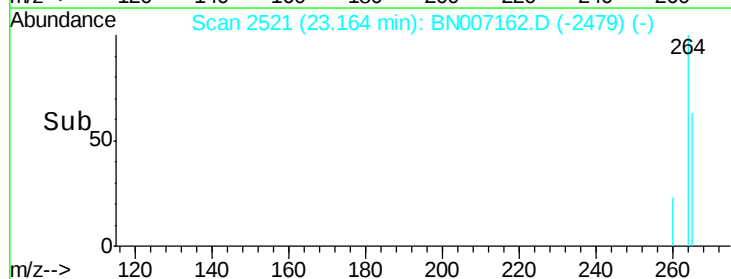
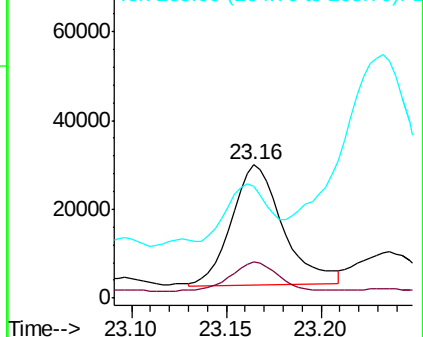
265 83.7 26.2 39.4#



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: 8.004 ng m

RT: 22.54 min Scan# 2340

Delta R.T. -0.00 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

Instrument :

BNA_N

ClientSampleId :

PST-034-B232-080519

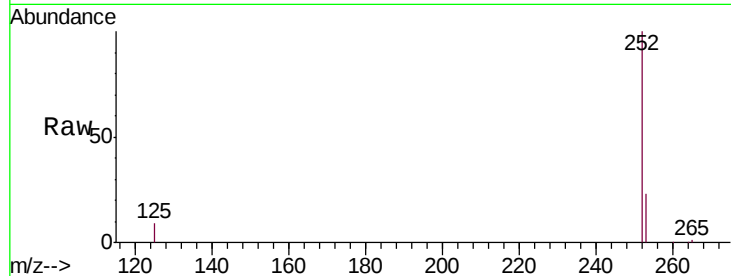
Tgt Ion:252 Resp: 1418684

Ion Ratio Lower Upper

252 100

253 23.1 18.2 27.2

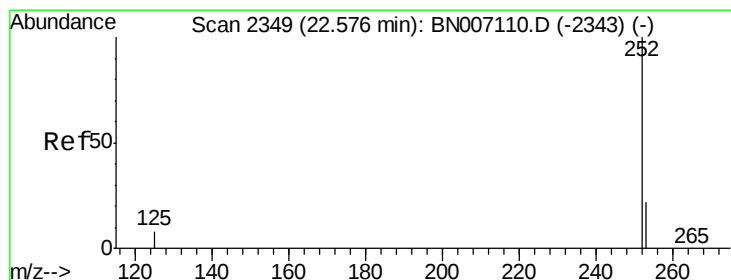
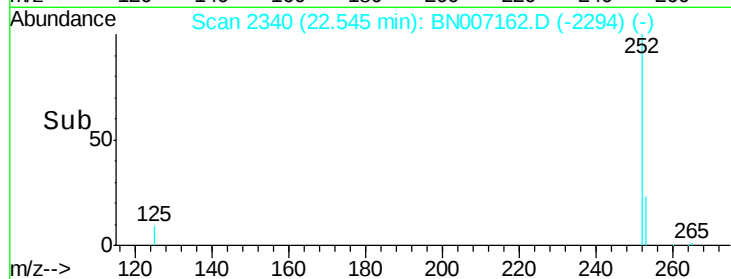
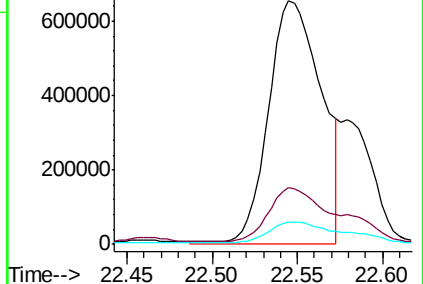
125 9.0 7.4 11.0



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: 2.695 ng m

RT: 22.57 min Scan# 2348

Delta R.T. -0.02 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

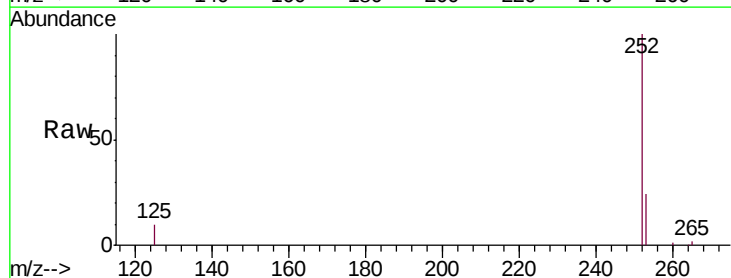
Tgt Ion:252 Resp: 471771

Ion Ratio Lower Upper

252 100

253 23.5 18.1 27.1

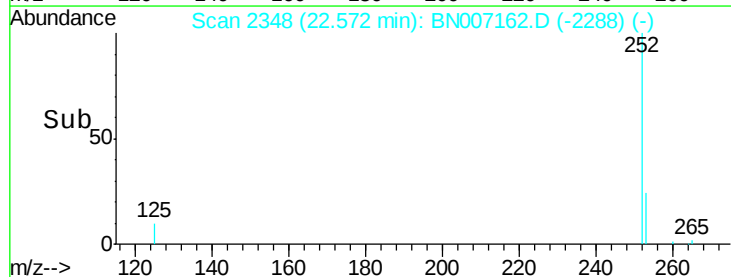
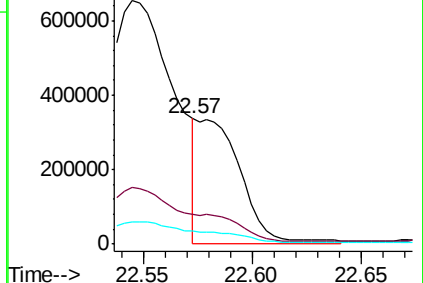
125 10.1 7.4 11.0



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: 7.413 ng

RT: 23.08 min Scan# 2495

Delta R.T. -0.01 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

Instrument :

BNA_N

ClientSampleId :

PST-034-B232-080519

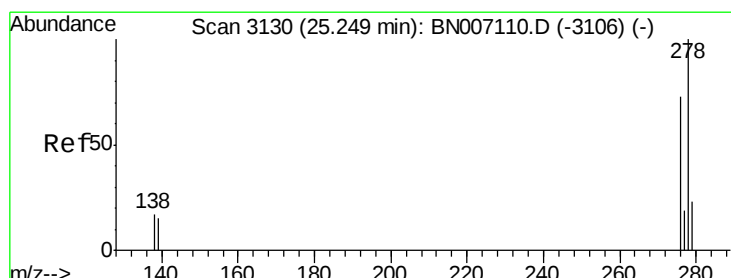
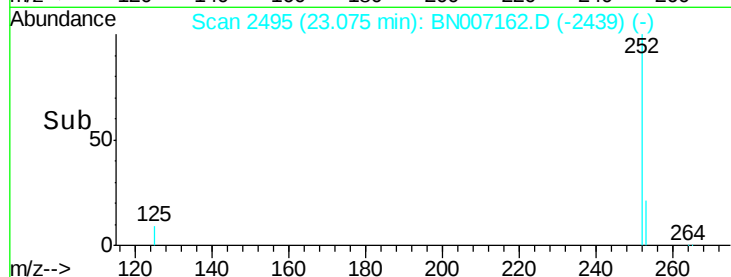
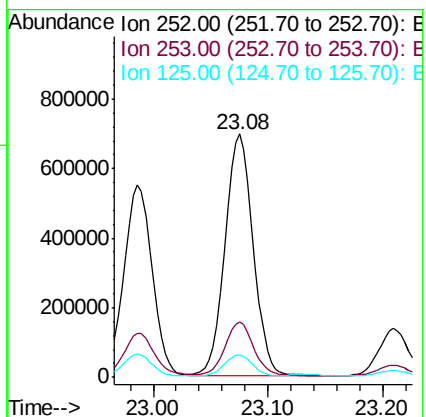
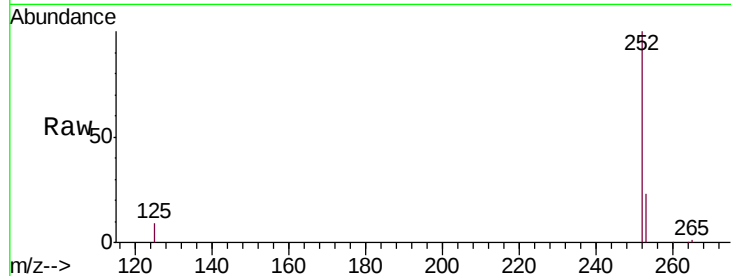
Tgt Ion:252 Resp: 1191231

Ion Ratio Lower Upper

252 100

253 23.0 18.5 27.7

125 9.2 8.2 12.4



#36

Dibenzo(a,h)anthracene

Concen: 1.349 ng

RT: 25.25 min Scan# 3131

Delta R.T. -0.02 min

Lab File: BN007162.D

Acq: 14 Aug 2019 10:33

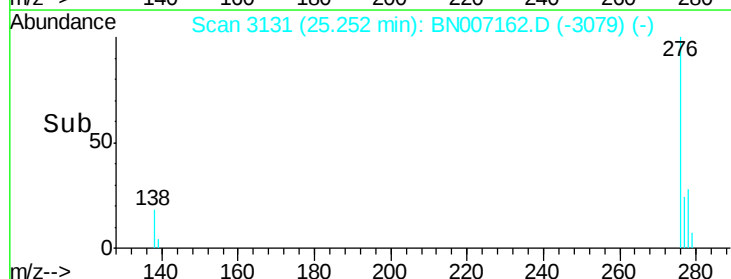
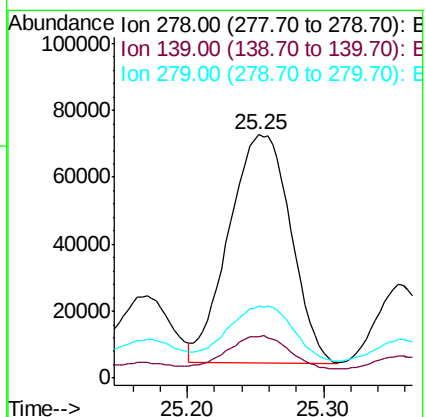
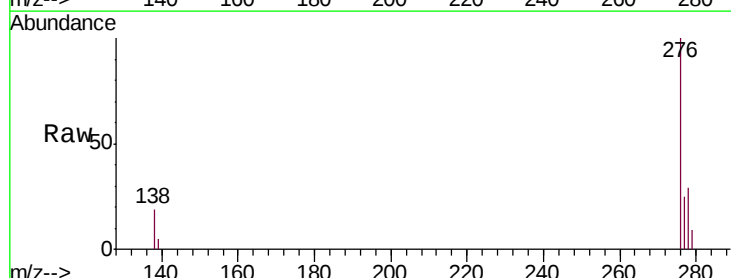
Tgt Ion:278 Resp: 216306

Ion Ratio Lower Upper

278 100

139 17.2 11.3 16.9#

279 29.4 19.3 28.9#





#37

Benzo(g,h,i)perylene

Concen: 4.752 ng

RT: 25.88 min Scan# 3314

Delta R.T. -0.00 min

Lab File: BN007162.D

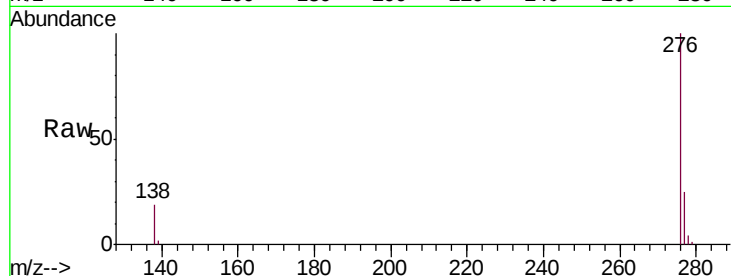
Acq: 14 Aug 2019 10:33

Instrument :

BNA_N

ClientSampleId :

PST-034-B232-080519



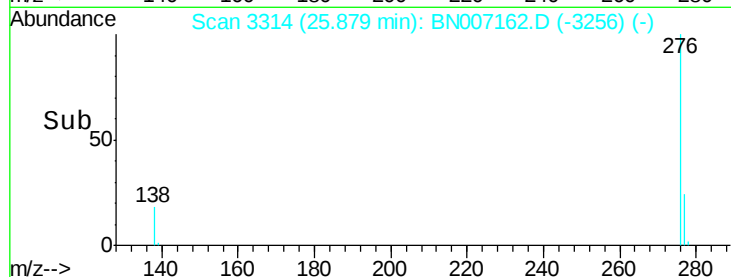
Tgt Ion: 276 Resp: 783772

Ion Ratio Lower Upper

276 100

277 24.7 19.8 29.8

138 19.0 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

