

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN081319\
 Data File : BN007165.D
 Acq On : 14 Aug 2019 12:21
 Operator : HP/JU
 Sample : K4173-12
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-032-SW176-073119

Quant Time: Aug 14 13:18:00 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	9693	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	37716	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	21516	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	47377	0.40	ng	0.00
26) Chrysene-d12	21.04	240	47522	0.40	ng	-0.01
32) Perylene-d12	23.17	264	57035	0.40	ng	0.00

System Monitoring Compounds

3) 2-Fluorophenol	5.06	112	6197	0.27	ng	0.00
4) Phenol-d6	6.62	99	8392	0.29	ng	0.00
7) Nitrobenzene-d5	8.56	82	6872	0.23	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	14930	0.21	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2491	0.21	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3869	0.12	ng	0.00
24) Fluoranthene-d10	18.87	212	35093m	0.21	ng	0.00
28) Terphenyl-d14	19.49	244	28592	0.22	ng	0.00

Target Compounds

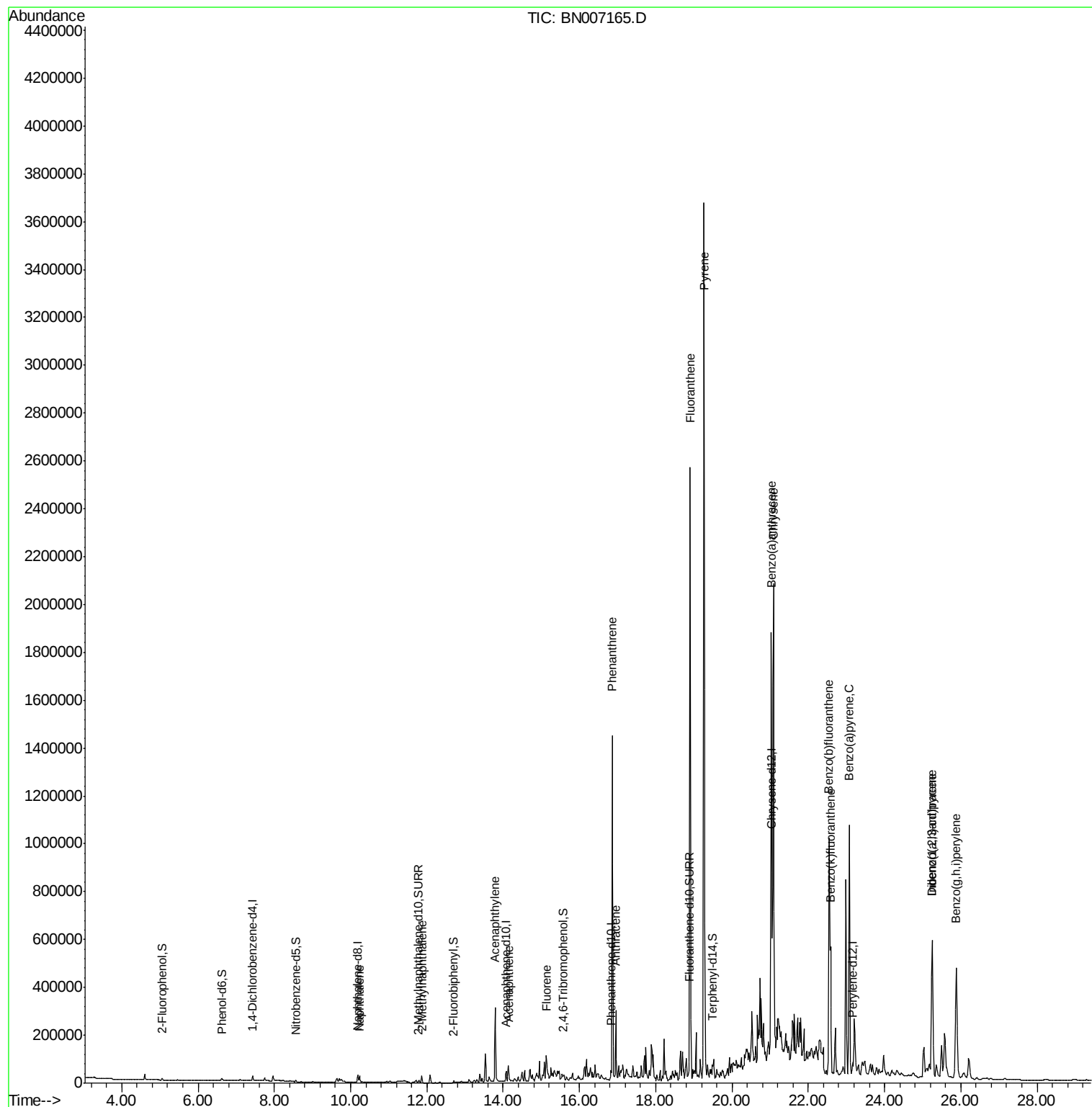
						Qvalue
8) Naphthalene	10.24	128	32547	0.308	ng	99
11) 2-Methylnaphthalene	11.86	142	21069	0.281	ng	97
15) Acenaphthylene	13.79	152	382943	3.405	ng	99
16) Acenaphthene	14.14	154	40631	0.564	ng	96
17) Fluorene	15.13	166	81301	0.754	ng	# 82
22) Phenanthrene	16.87	178	1444712	10.175	ng	99
23) Anthracene	16.96	178	319878	2.466	ng	99
25) Fluoranthene	18.90	202	2364319	13.018	ng	98
27) Pyrene	19.27	202	3482219	20.895	ng	96
29) Benzo(a)anthracene	21.03	228	1532131m	8.816	ng	
30) Chrysene	21.09	228	1867029	11.057	ng	97
31) Indeno(1,2,3-cd)pyrene	25.25	276	881337	4.736	ng	99
33) Benzo(b)fluoranthene	22.55	252	1632192	8.346	ng	99
34) Benzo(k)fluoranthene	22.59	252	531864m	2.754	ng	
35) Benzo(a)pyrene	23.08	252	1382646	7.798	ng	99
36) Dibenzo(a,h)anthracene	25.26	278	254292	1.437	ng	# 89
37) Benzo(g,h,i)perylene	25.88	276	969618	5.328	ng	99

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN081319\
Data File : BN007165.D
Acq On : 14 Aug 2019 12:21
Operator : HP/JU
Sample : K4173-12
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EXT-032-SW176-073119

Quant Time: Aug 14 13:18:00 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



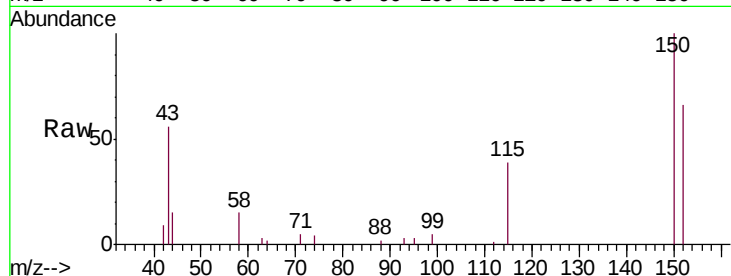


#1

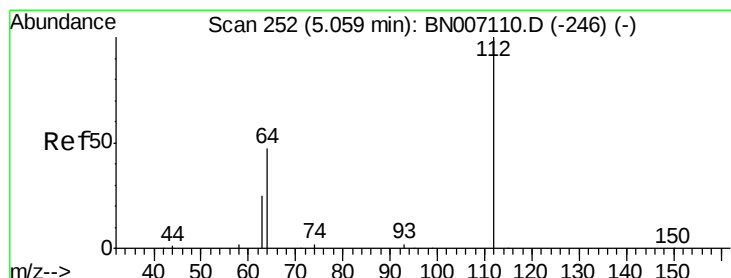
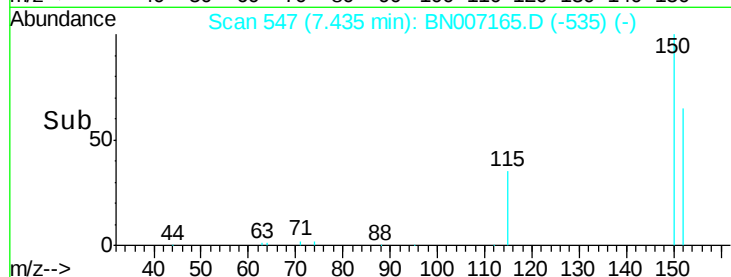
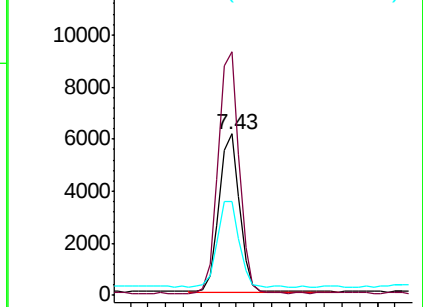
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007165.D
Acq: 14 Aug 2019 12:21

Instrument :
BNA_N
ClientSampleId :
EXT-032-SW176-073119

Tgt Ion:152 Resp: 9693
Ion Ratio Lower Upper
152 100
150 151.1 121.7 182.5
115 58.5 46.2 69.4



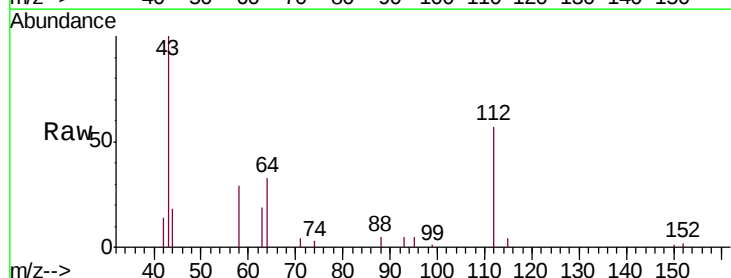
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



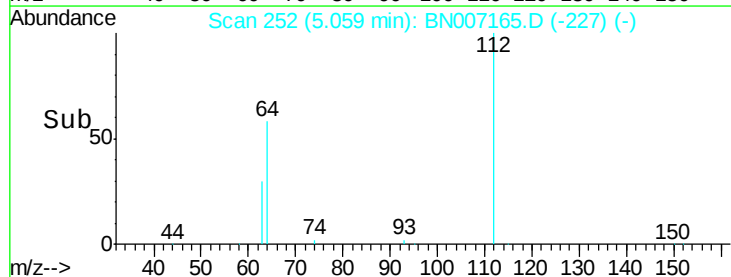
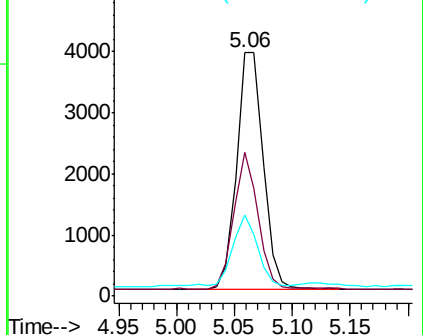
#3

2-Fluorophenol
Concen: 0.266 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007165.D
Acq: 14 Aug 2019 12:21

Tgt Ion:112 Resp: 6197
Ion Ratio Lower Upper
112 100
64 51.7 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: 0.291 ng

RT: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

Instrument :

BNA_N

ClientSampleId :

EXT-032-SW176-073119

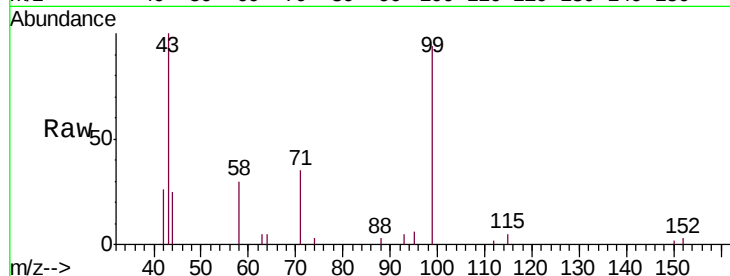
Tgt Ion: 99 Resp: 8392

Ion Ratio Lower Upper

99 100

42 20.5 15.8 23.6

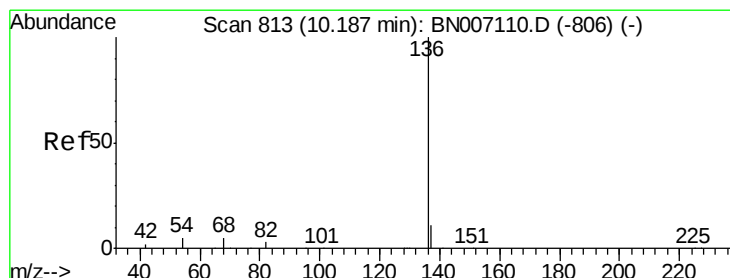
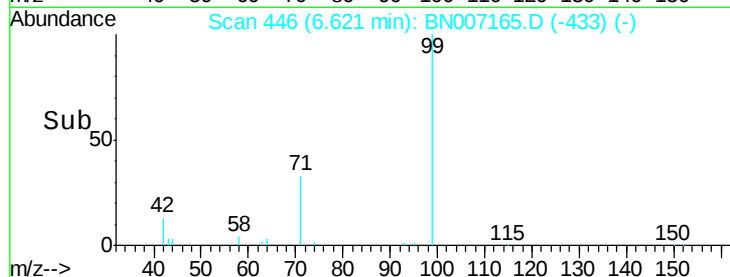
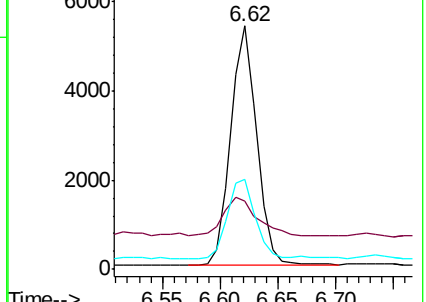
71 35.3 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007110.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007110.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007110.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

Tgt Ion: 136 Resp: 37716

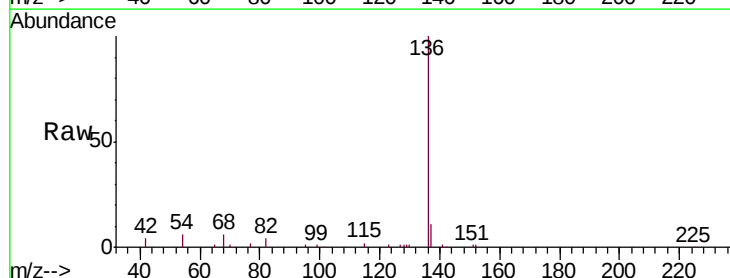
Ion Ratio Lower Upper

136 100

137 11.4 9.4 14.0

54 6.2 6.6 9.8#

68 5.8 6.0 9.0#

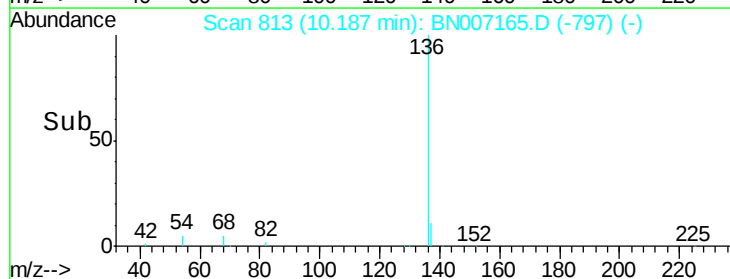
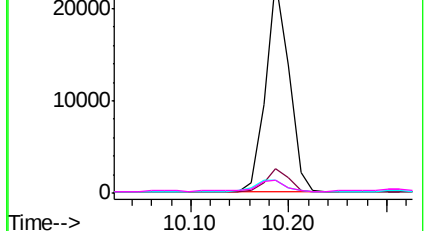


Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

Ion 137.00 (136.70 to 137.70): BN007110.D (-806) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-806) (-)

Ion 68.00 (67.70 to 68.70): BN007110.D (-806) (-)





#7

Nitrobenzene-d5

Concen: 0.226 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

Instrument :

BNA_N

ClientSampleId :

EXT-032-SW176-073119

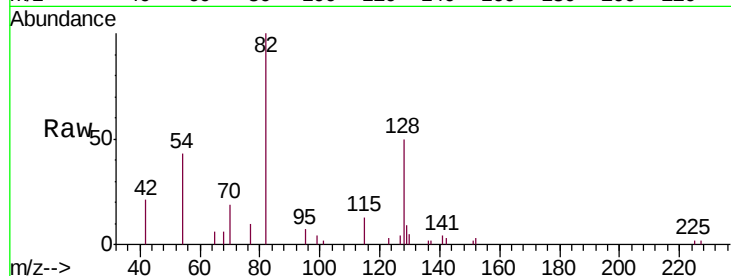
Tgt Ion: 82 Resp: 6872

Ion Ratio Lower Upper

82 100

128 49.8 34.6 51.8

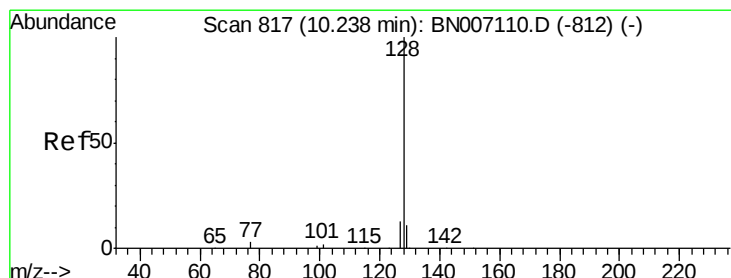
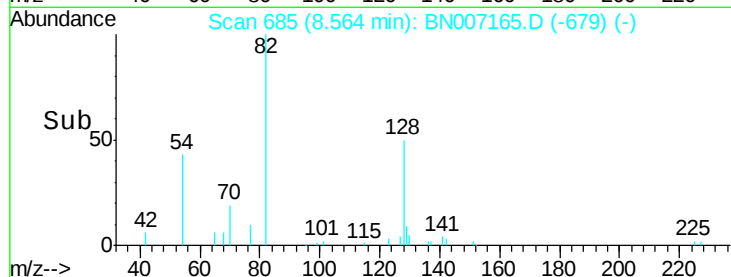
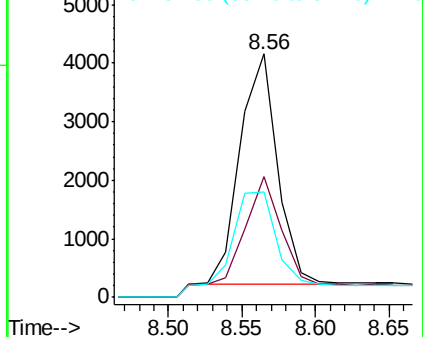
54 43.3 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): BNC

Ion 54.00 (53.70 to 54.70): BNC



#8

Naphthalene

Concen: 0.308 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

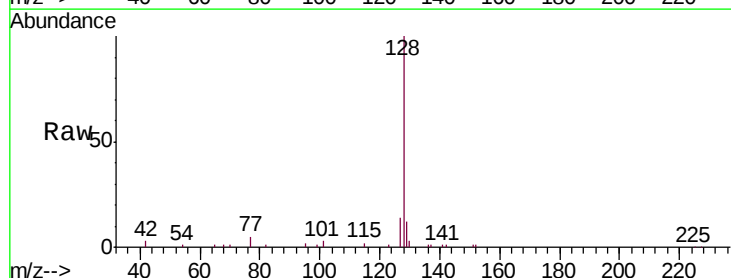
Tgt Ion: 128 Resp: 32547

Ion Ratio Lower Upper

128 100

129 12.3 9.4 14.2

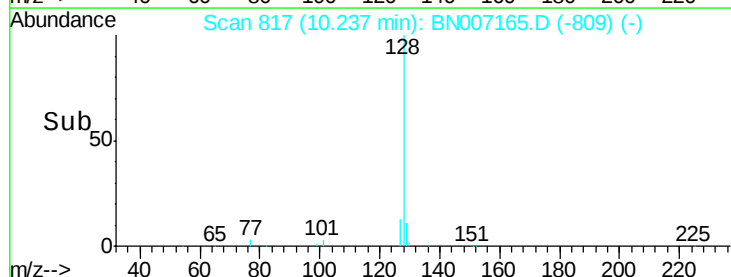
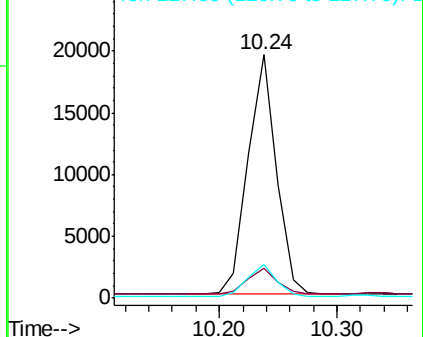
127 13.6 11.0 16.6



Abundance Ion 128.00 (127.70 to 128.70): BNC

Ion 129.00 (128.70 to 129.70): BNC

Ion 127.00 (126.70 to 127.70): BNC





#10

2-Methylnaphthalene-d10

Concen: 0.212 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

Instrument :

BNA_N

ClientSampleId :

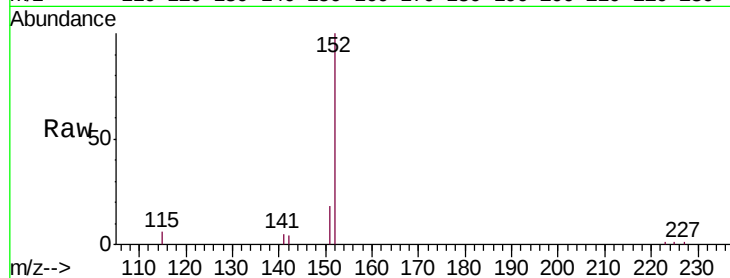
EXT-032-SW176-073119

Tgt Ion:152 Resp: 14930

Ion Ratio Lower Upper

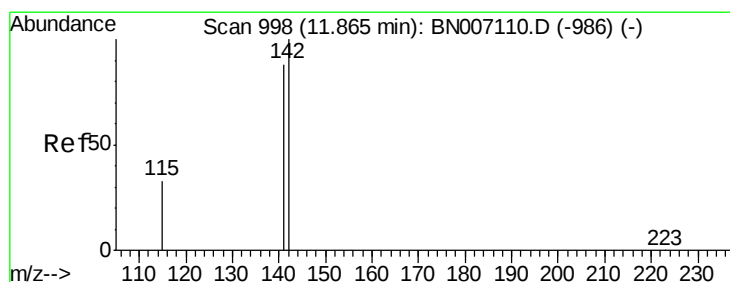
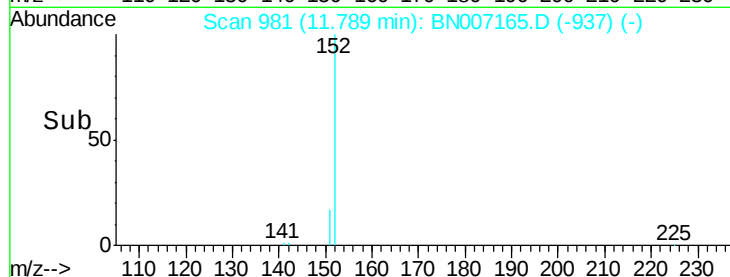
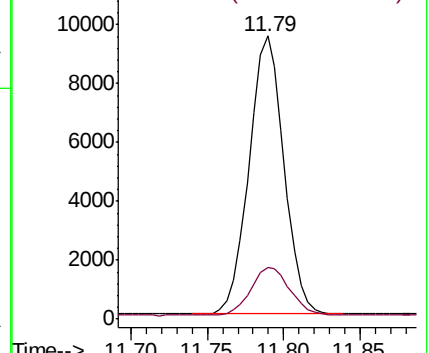
152 100

151 19.6 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#11

2-Methylnaphthalene

Concen: 0.281 ng

RT: 11.86 min Scan# 998

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

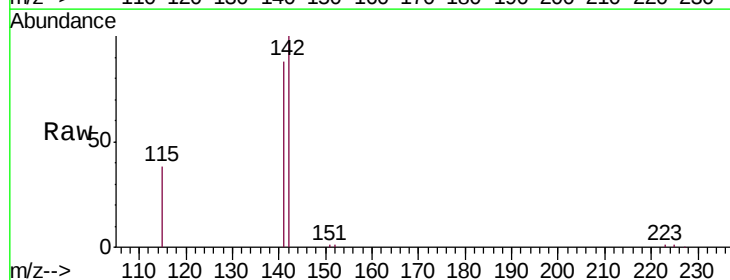
Tgt Ion:142 Resp: 21069

Ion Ratio Lower Upper

142 100

141 88.0 69.0 103.6

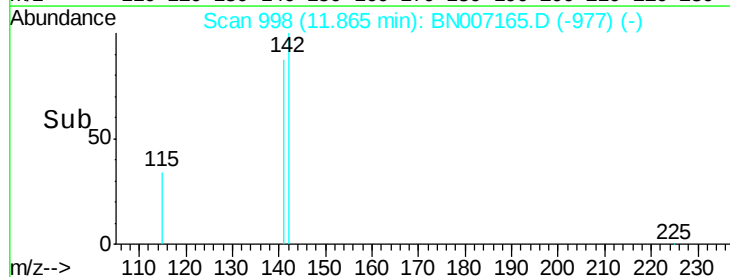
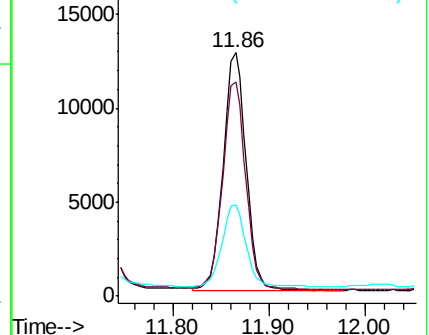
115 37.6 27.1 40.7



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





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

Instrument :

BNA_N

ClientSampleId :

EXT-032-SW176-073119

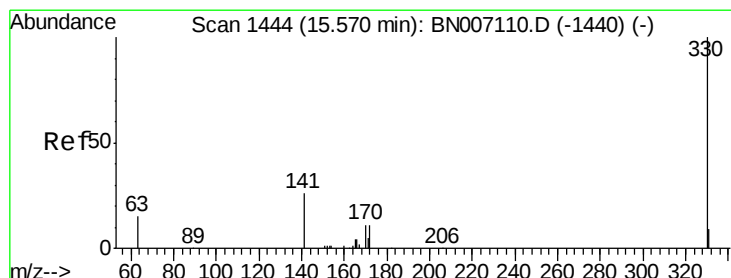
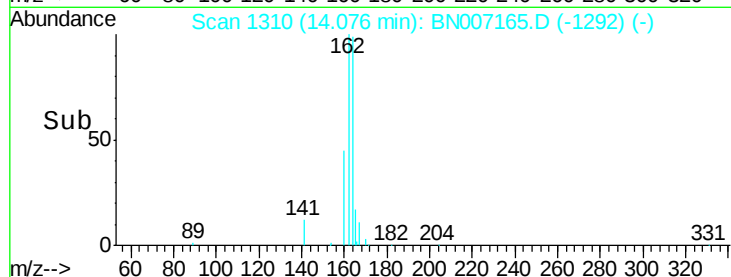
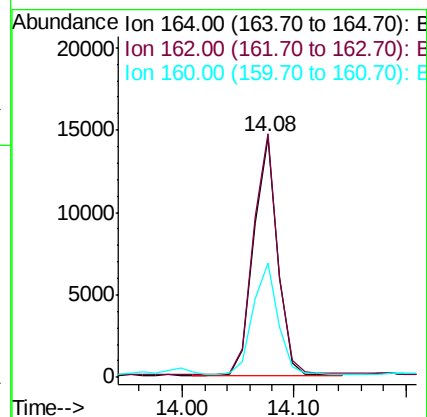
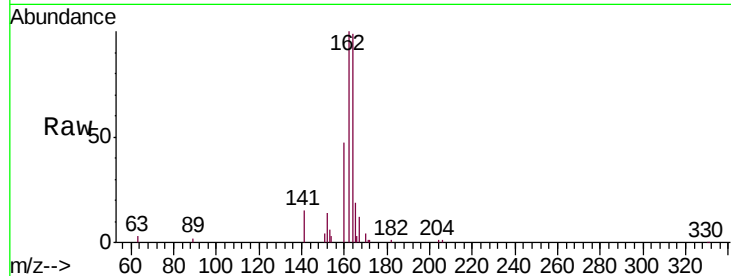
Tgt Ion:164 Resp: 21516

Ion Ratio Lower Upper

164 100

162 101.3 82.2 123.4

160 47.8 38.3 57.5



#13

2,4,6-Tribromophenol

Concen: 0.215 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

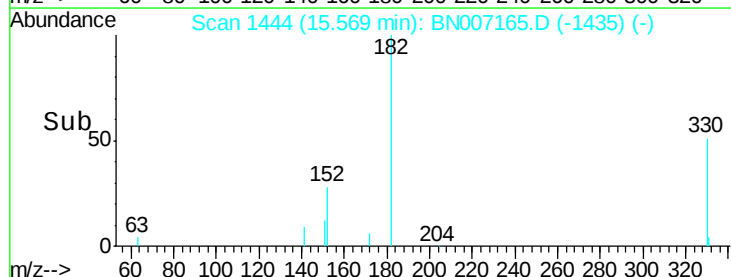
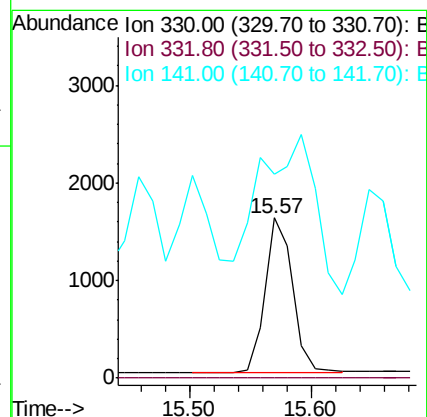
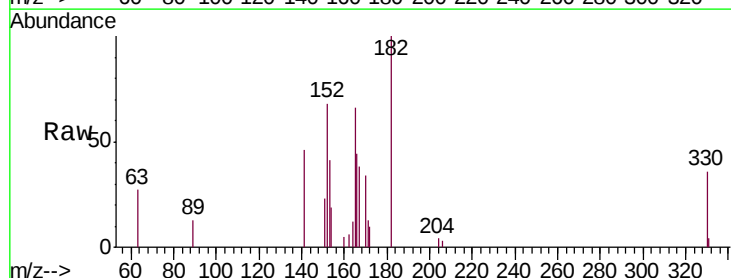
Tgt Ion:330 Resp: 2491

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 0.0 33.6 50.4#

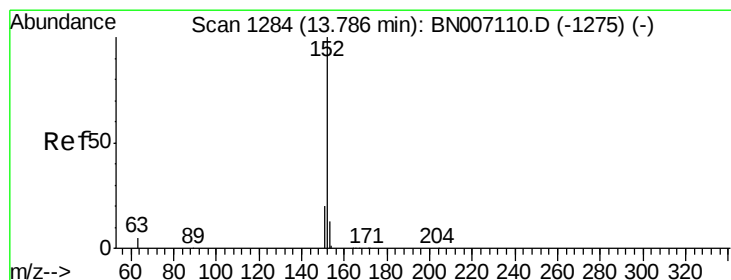
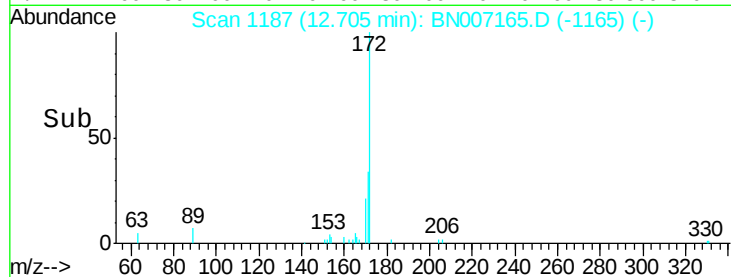
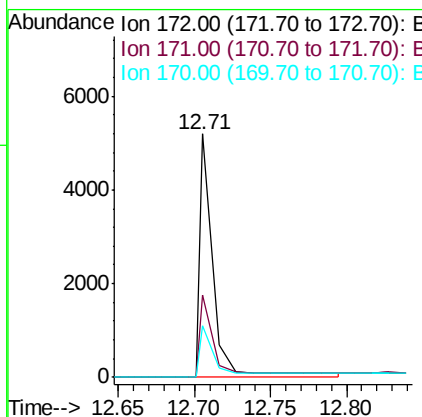
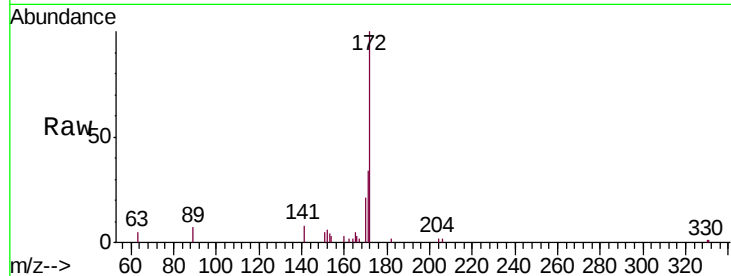




#14
2-Fluorobiphenyl
Concen: 0.124 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007165.D
Acq: 14 Aug 2019 12:21

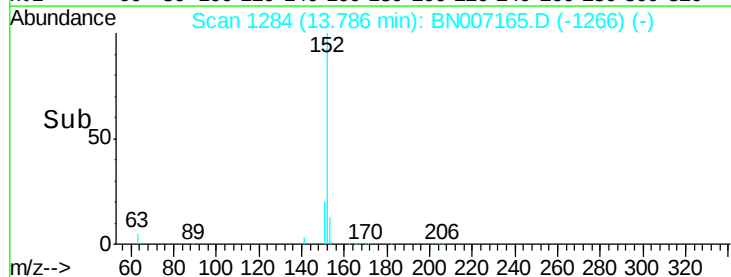
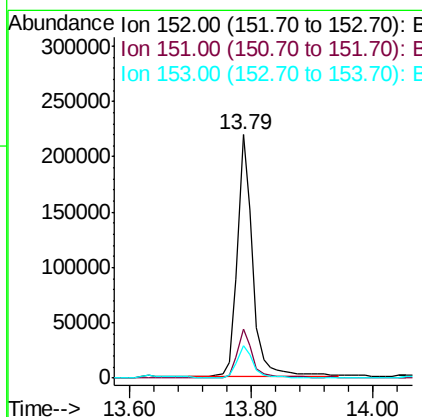
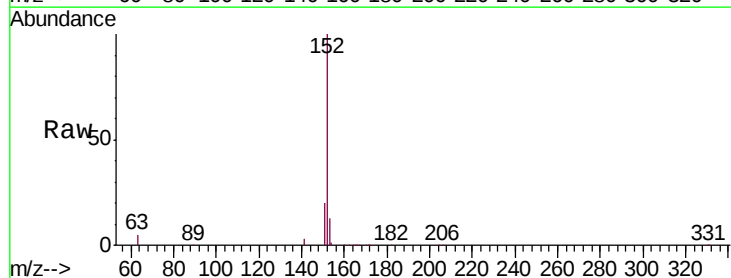
Instrument :
BNA_N
ClientSampleId :
EXT-032-SW176-073119

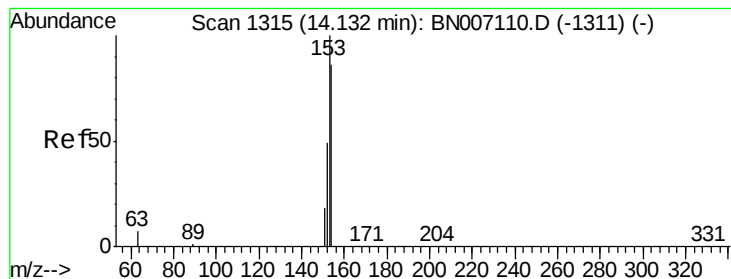
Tgt Ion:172 Resp: 3869
Ion Ratio Lower Upper
172 100
171 33.8 26.3 39.5
170 21.0 17.0 25.4



#15
Acenaphthylene
Concen: 3.405 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007165.D
Acq: 14 Aug 2019 12:21

Tgt Ion:152 Resp: 382943
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.6
153 13.4 10.4 15.6





#16

Acenaphthene

Concen: 0.564 ng

RT: 14.14 min Scan# 1316

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

Instrument :

BNA_N

ClientSampleId :

EXT-032-SW176-073119

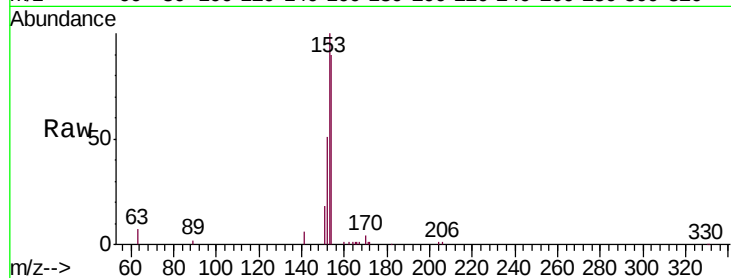
Tgt Ion:154 Resp: 40631

Ion Ratio Lower Upper

154 100

153 109.8 89.5 134.3

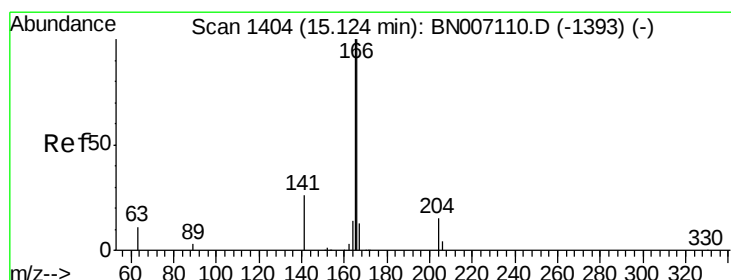
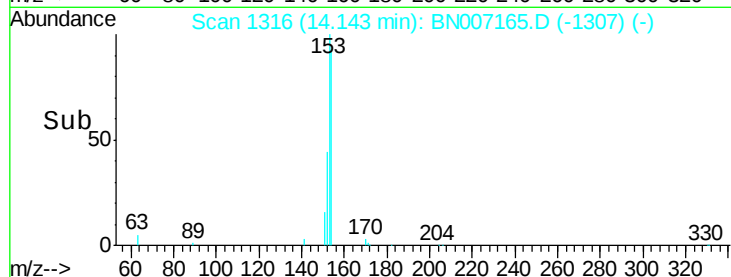
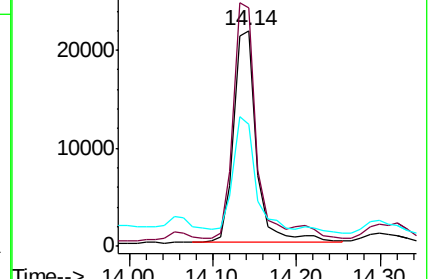
152 51.0 44.8 67.2



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: 0.754 ng

RT: 15.13 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

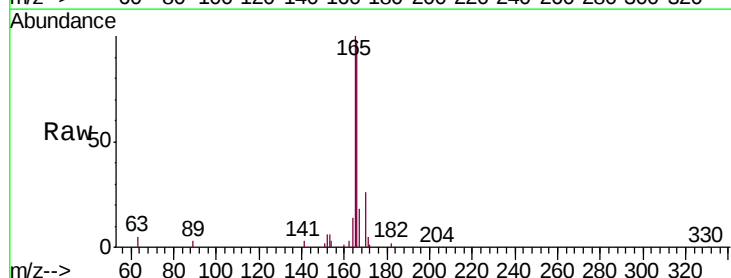
Tgt Ion:166 Resp: 81301

Ion Ratio Lower Upper

166 100

165 117.0 77.9 116.9#

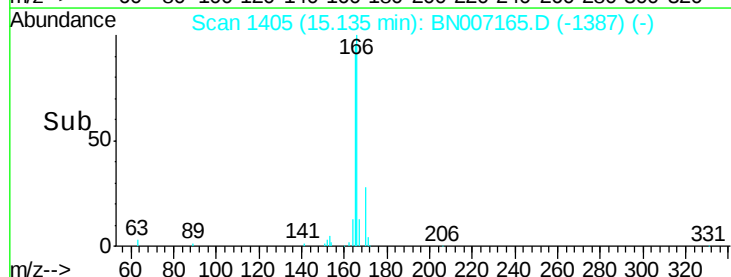
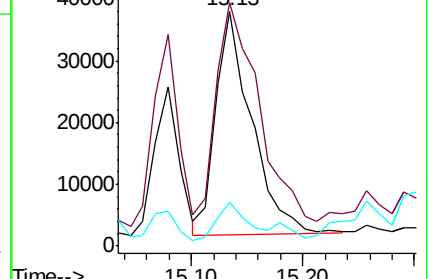
167 14.9 10.9 16.3

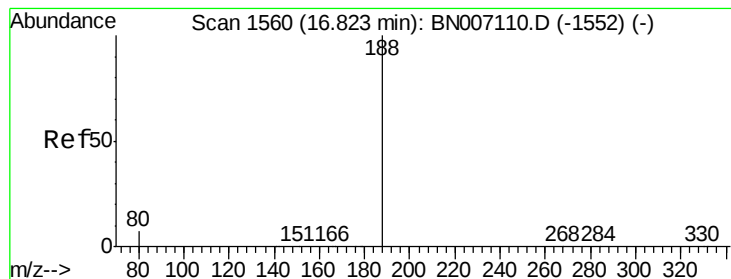


Abundance Ion 166.00 (165.70 to 166.70): E

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: BN007165.D

Acq: 14 Aug 2019 12:21

Instrument :

BNA_N

ClientSampleId :

EXT-032-SW176-073119

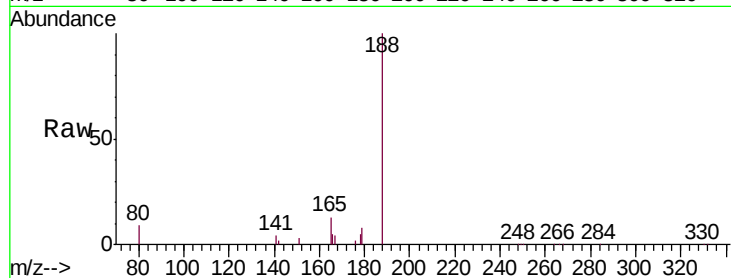
Tgt Ion:188 Resp: 47377

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

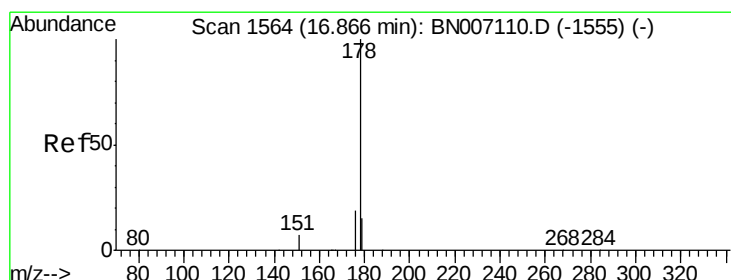
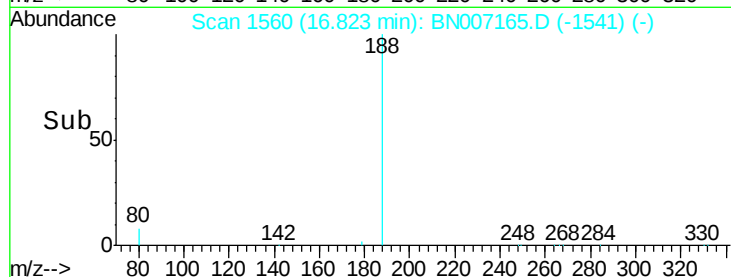
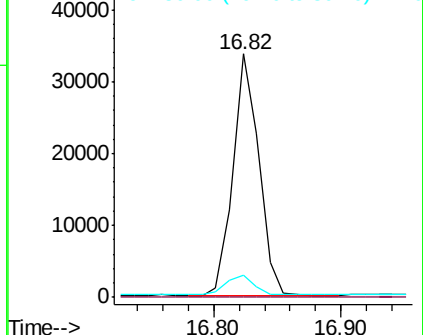
80 9.4 7.8 11.6



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: 10.175 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

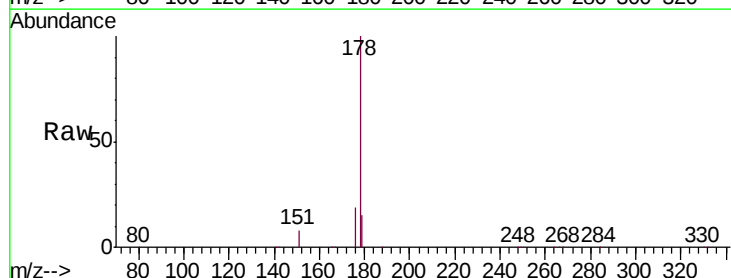
Tgt Ion:178 Resp: 1444712

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

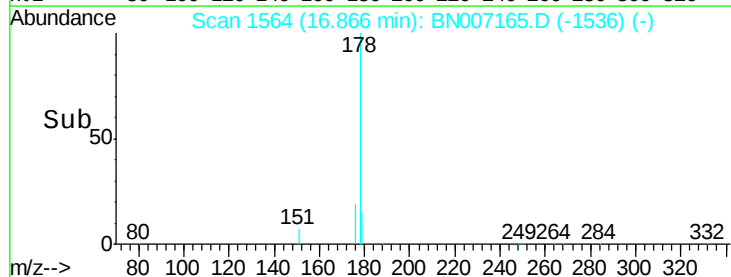
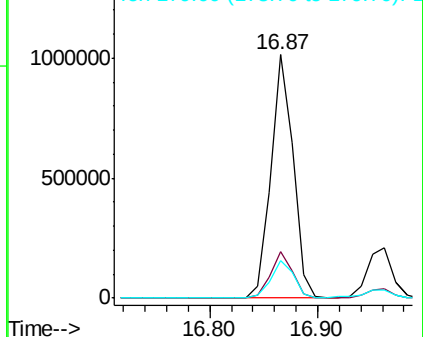
179 16.0 12.3 18.5



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: 2.466 ng

RT: 16.96 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

Instrument :

BNA_N

ClientSampleId :

EXT-032-SW176-073119

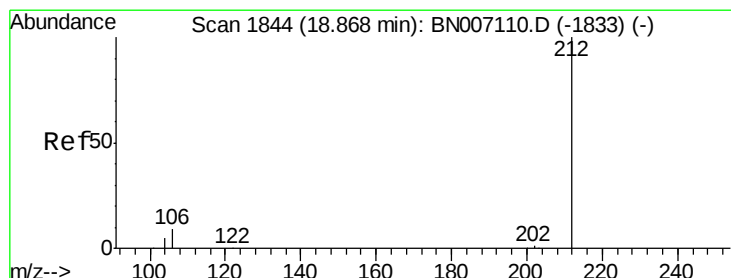
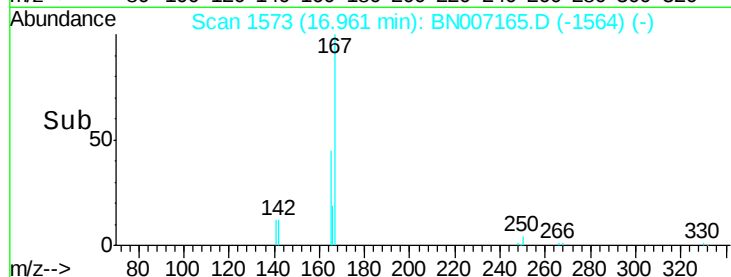
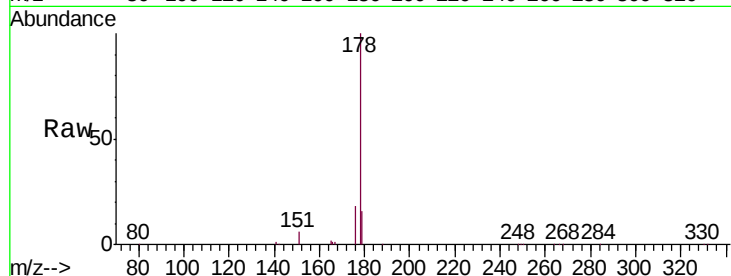
Tgt Ion:178 Resp: 319878

Ion Ratio Lower Upper

178 100

176 18.3 14.6 21.8

179 16.8 12.5 18.7



#24

Fluoranthene-d10

Concen: 0.209 ng m

RT: 18.87 min Scan# 1845

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

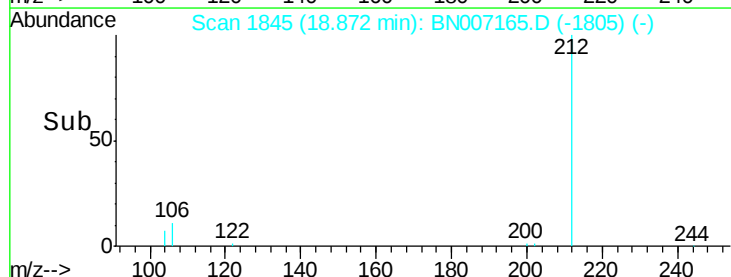
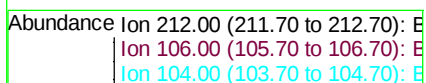
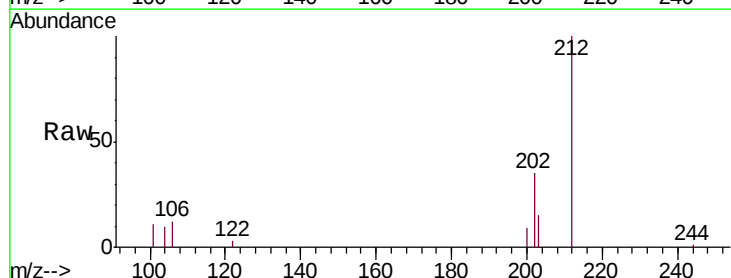
Tgt Ion:212 Resp: 35093

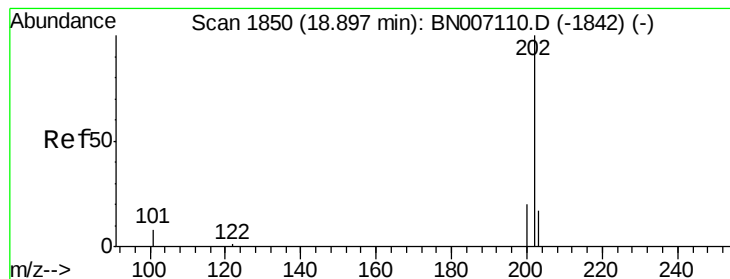
Ion Ratio Lower Upper

212 100

106 2.4 8.2 12.2#

104 1.3 4.5 6.7#





#25

Fluoranthene

Concen: 13.018 ng

RT: 18.90 min Scan# 1851

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

Instrument :

BNA_N

ClientSampleId :

EXT-032-SW176-073119

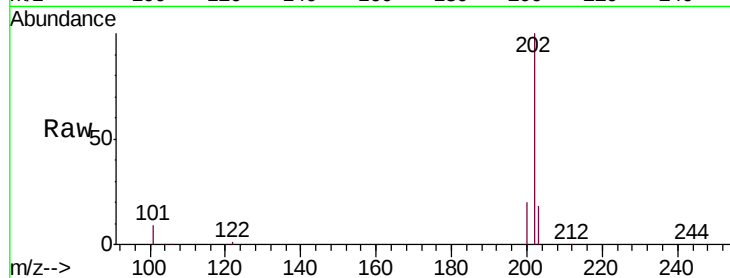
Tgt Ion:202 Resp: 2364319

Ion Ratio Lower Upper

202 100

101 9.0 7.0 10.4

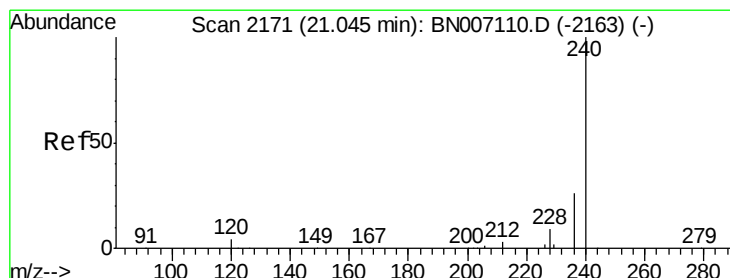
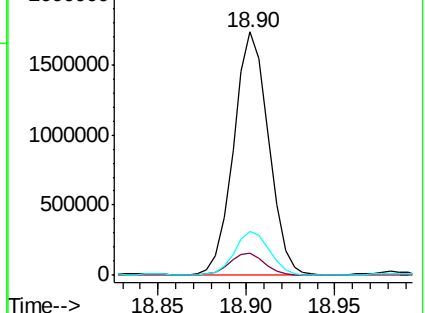
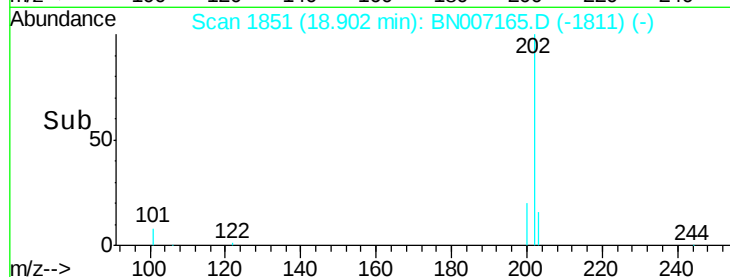
203 18.1 13.8 20.8



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: 21.04 min Scan# 2171

Delta R.T. -0.01 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

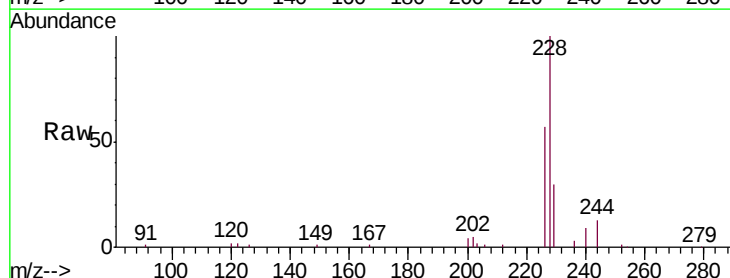
Tgt Ion:240 Resp: 47522

Ion Ratio Lower Upper

240 100

120 16.5 4.0 6.0#

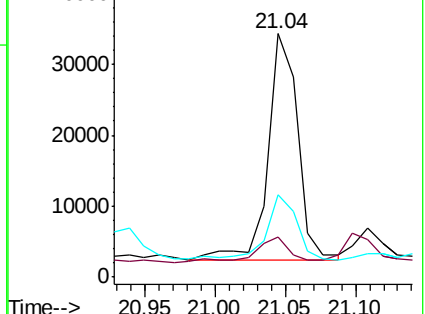
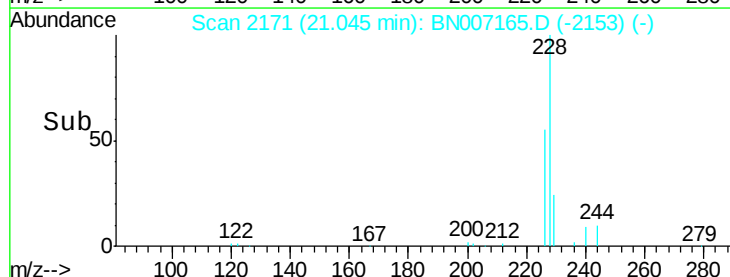
236 33.6 21.3 31.9#



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

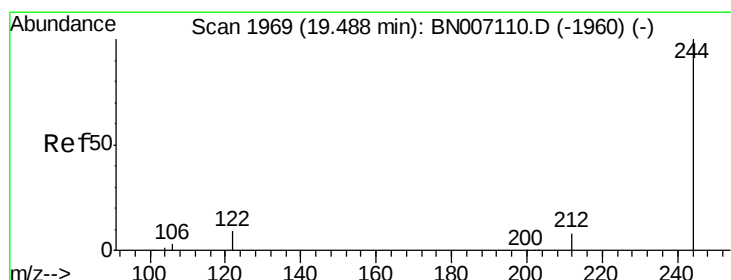
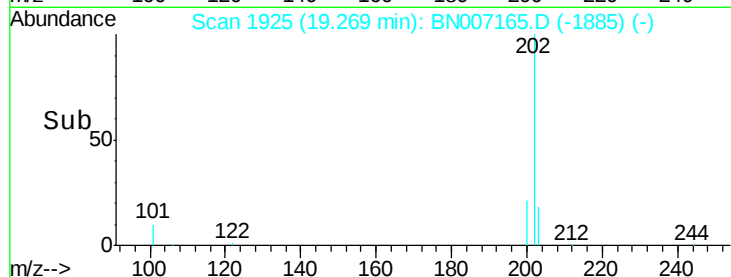
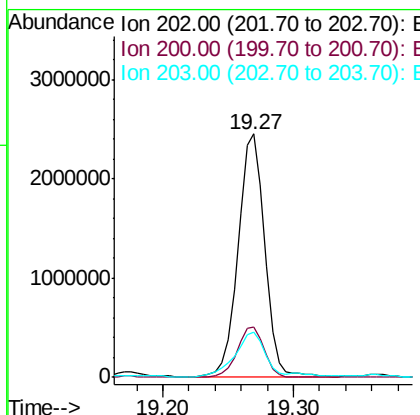
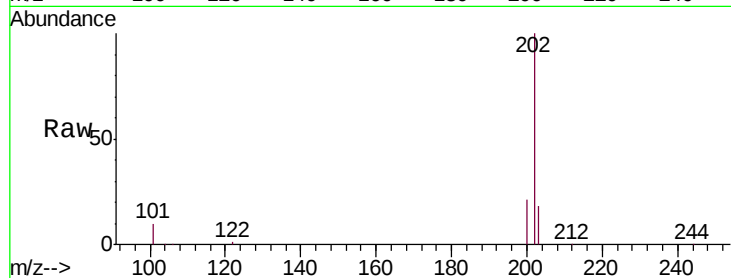




#27
 Pyrene
 Concen: 20.895 ng
 RT: 19.27 min Scan# 1925
 Delta R.T. -0.00 min
 Lab File: BN007165.D
 Acq: 14 Aug 2019 12:21

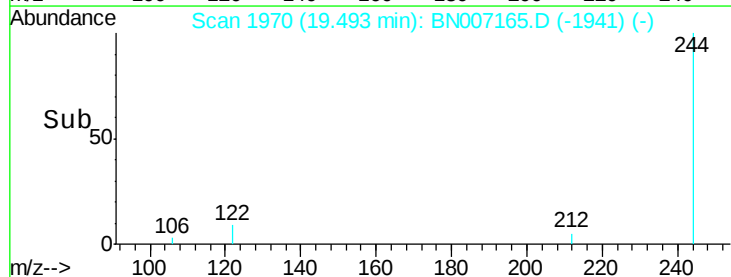
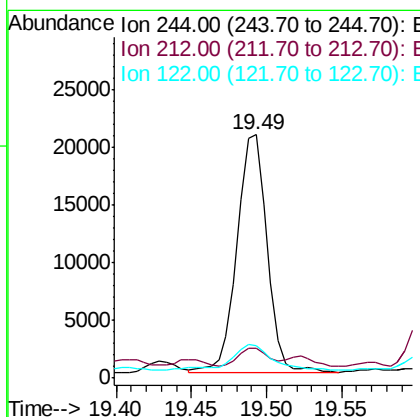
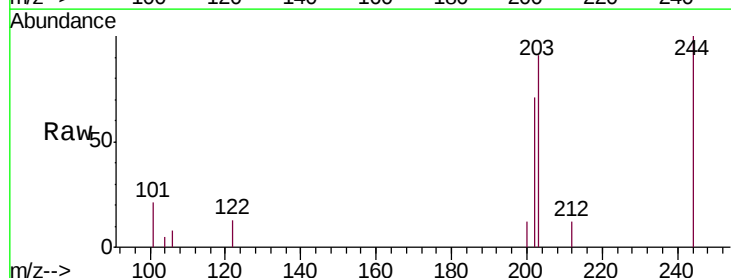
Instrument :
 BNA_N
 ClientSampleId :
 EXT-032-SW176-073119

Tgt Ion:202 Resp: 3482219
 Ion Ratio Lower Upper
 202 100
 200 21.0 16.6 24.8
 203 20.7 14.0 21.0



#28
 Terphenyl-d14
 Concen: 0.221 ng
 RT: 19.49 min Scan# 1970
 Delta R.T. -0.01 min
 Lab File: BN007165.D
 Acq: 14 Aug 2019 12:21

Tgt Ion:244 Resp: 28592
 Ion Ratio Lower Upper
 244 100
 212 12.5 6.2 9.2#
 122 13.1 7.4 11.2#





#29

Benzo(a)anthracene

Concen: 8.816 ng m

RT: 21.03 min Scan# 2170

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

Instrument :

BNA_N

ClientSampleId :

EXT-032-SW176-073119

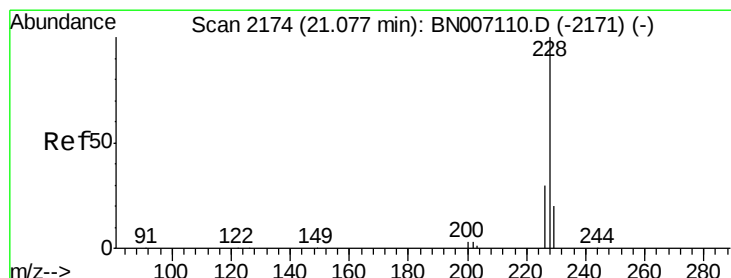
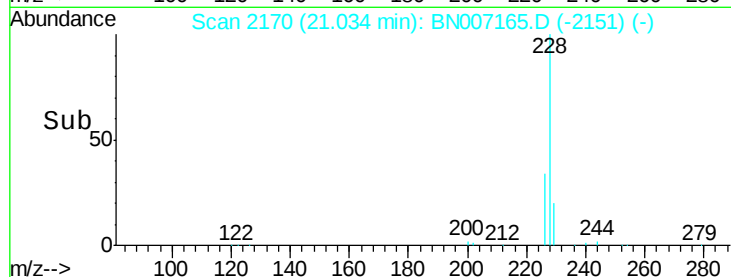
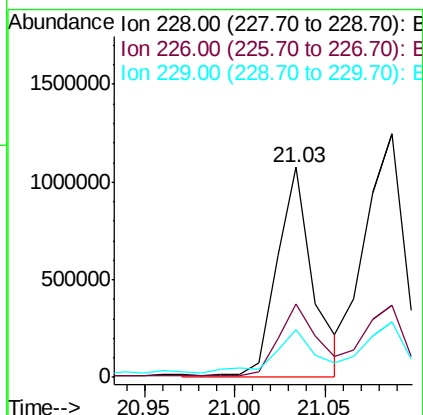
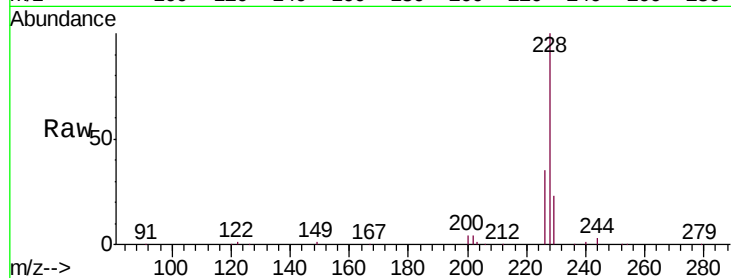
Tgt Ion:228 Resp: 1532131

Ion Ratio Lower Upper

228 100

226 34.9 21.8 32.6#

229 22.9 15.6 23.4



#30

Chrysene

Concen: 11.057 ng

RT: 21.09 min Scan# 2175

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

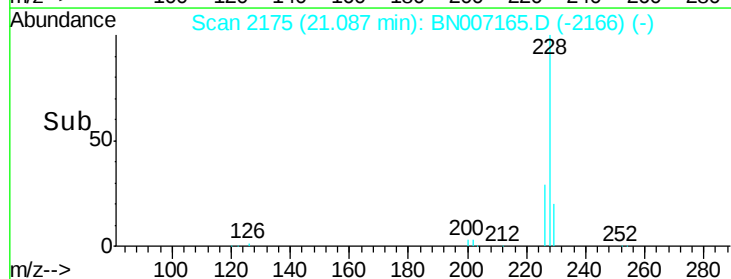
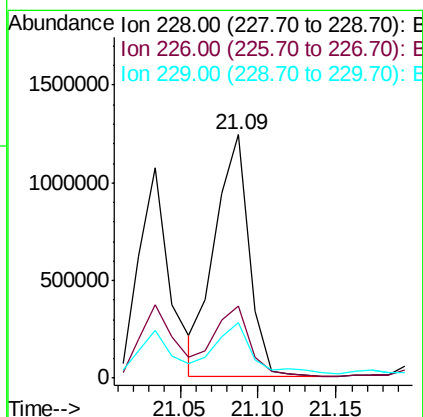
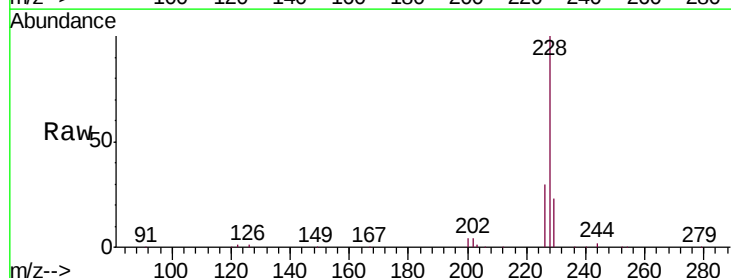
Tgt Ion:228 Resp: 1867029

Ion Ratio Lower Upper

228 100

226 29.5 23.8 35.6

229 22.6 15.7 23.5





#31

Indeno(1,2,3-cd)pyrene

Concen: 4.736 ng

RT: 25.25 min Scan# 3131

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

Instrument :

BNA_N

ClientSampleId :

EXT-032-SW176-073119

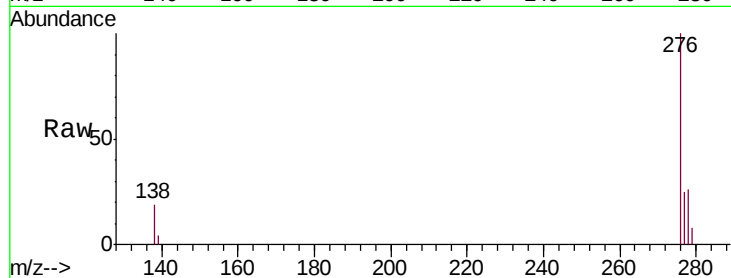
Tgt Ion:276 Resp: 881337

Ion Ratio Lower Upper

276 100

138 18.5 16.0 24.0

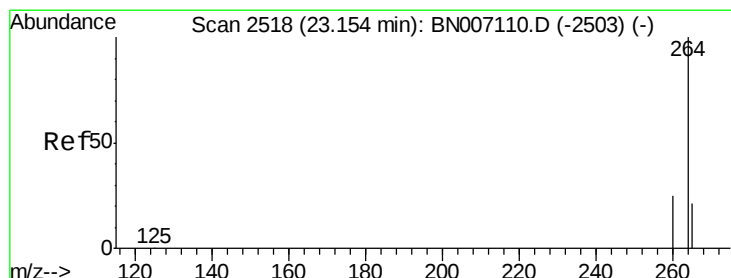
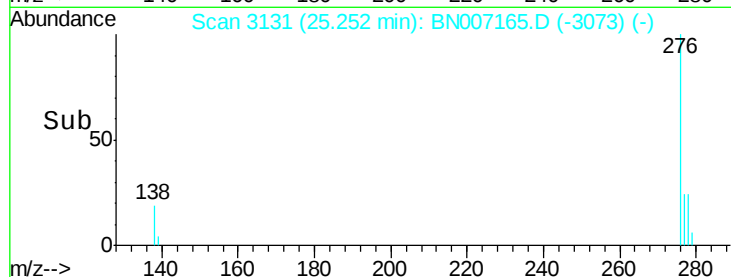
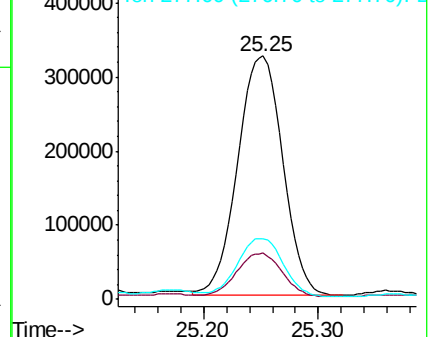
277 24.9 19.9 29.9



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: 23.17 min Scan# 2522

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

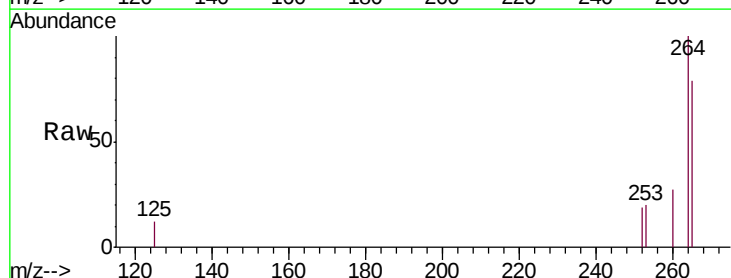
Tgt Ion:264 Resp: 57035

Ion Ratio Lower Upper

264 100

260 27.2 19.8 29.8

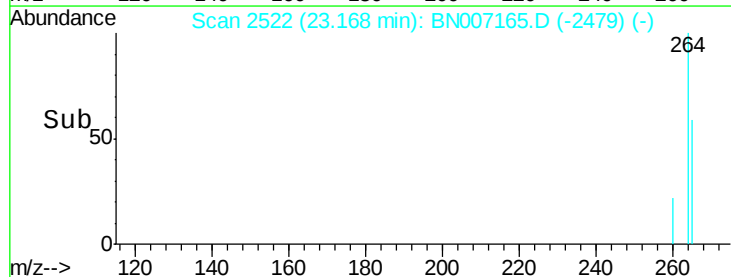
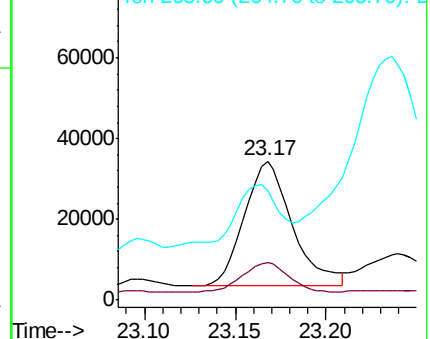
265 78.5 26.2 39.4#



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 8.346 ng

RT: 22.55 min Scan# 2341

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

Instrument :

BNA_N

ClientSampleId :

EXT-032-SW176-073119

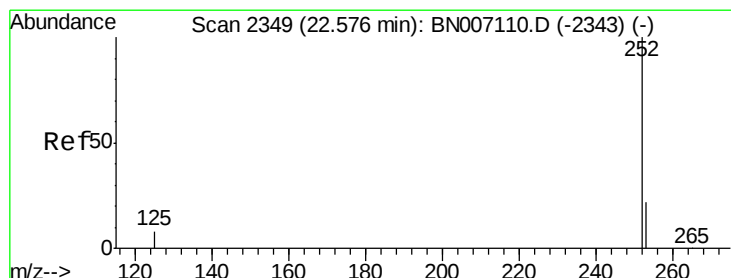
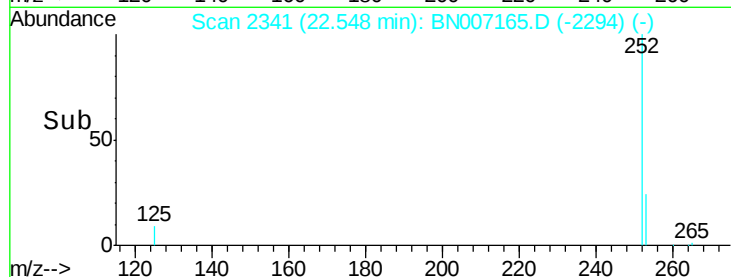
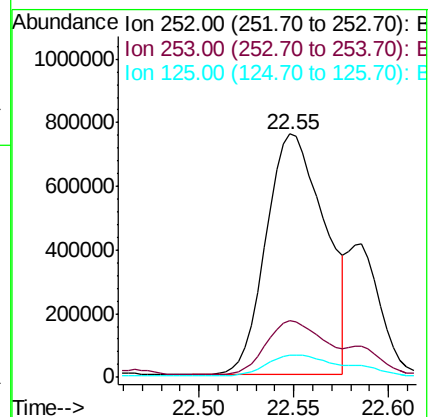
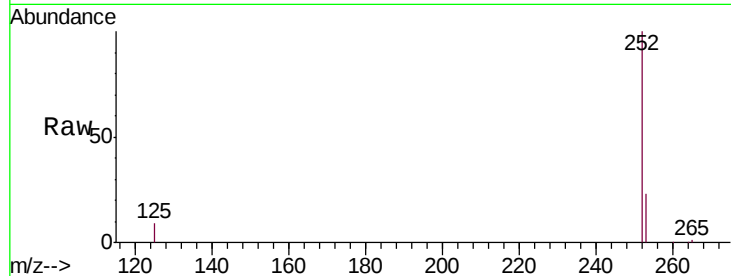
Tgt Ion:252 Resp: 1632192

Ion Ratio Lower Upper

252 100

253 23.2 18.2 27.2

125 9.1 7.4 11.0



#34

Benzo(k)fluoranthene

Concen: 2.754 ng m

RT: 22.59 min Scan# 2352

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

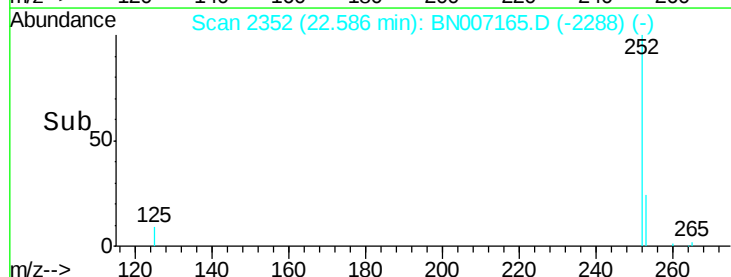
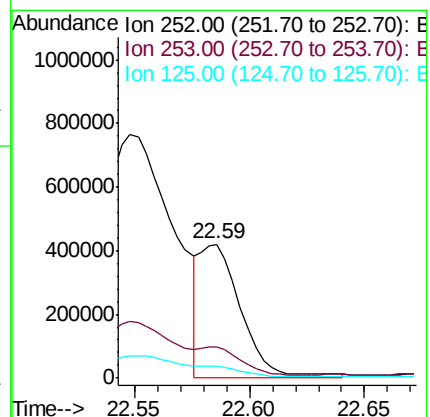
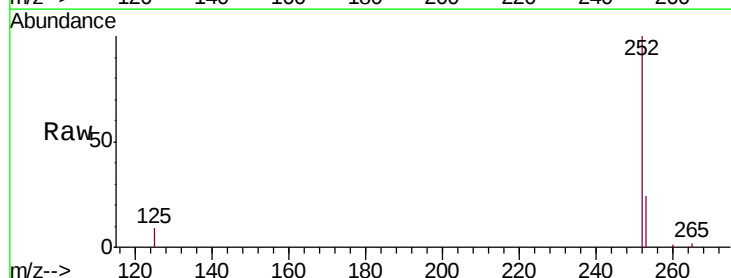
Tgt Ion:252 Resp: 531864

Ion Ratio Lower Upper

252 100

253 23.7 18.1 27.1

125 9.0 7.4 11.0





#35

Benzo(a)pyrene

Concen: 7.798 ng

RT: 23.08 min Scan# 2496

Delta R.T. -0.00 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

Instrument :

BNA_N

ClientSampleId :

EXT-032-SW176-073119

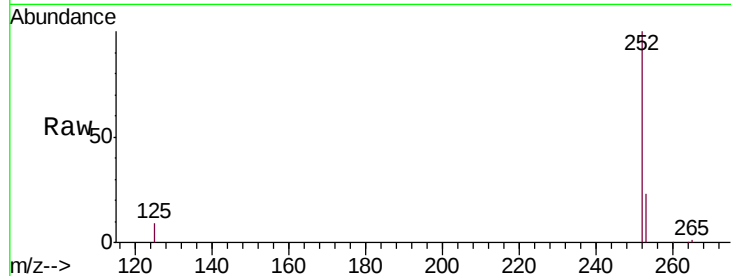
Tgt Ion:252 Resp: 1382646

Ion Ratio Lower Upper

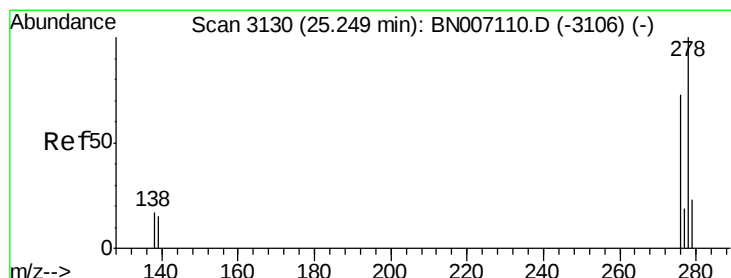
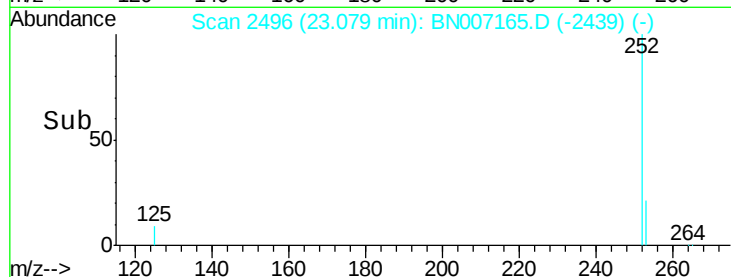
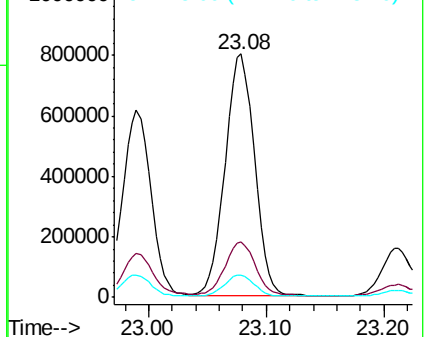
252 100

253 22.9 18.5 27.7

125 9.2 8.2 12.4



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



#36

Dibenzo(a,h)anthracene

Concen: 1.437 ng

RT: 25.26 min Scan# 3132

Delta R.T. -0.02 min

Lab File: BN007165.D

Acq: 14 Aug 2019 12:21

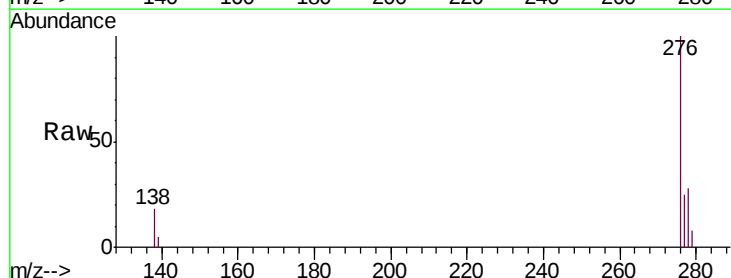
Tgt Ion:278 Resp: 254292

Ion Ratio Lower Upper

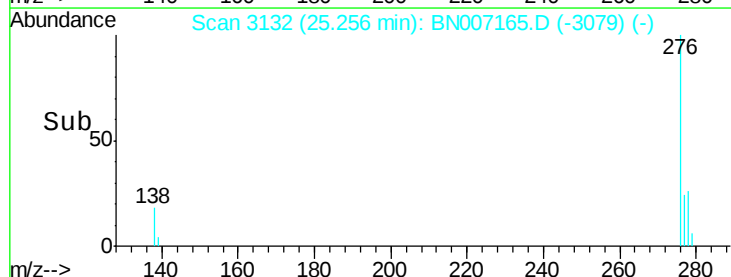
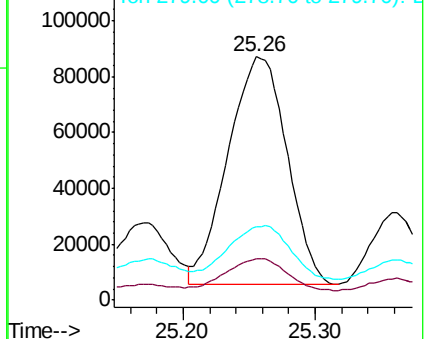
278 100

139 16.9 11.3 16.9

279 30.4 19.3 28.9#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#37

Benzo(g,h,i)perylene

Concen: 5.328 ng

RT: 25.88 min Scan# 3314

Delta R.T. -0.00 min

Lab File: BN007165.D

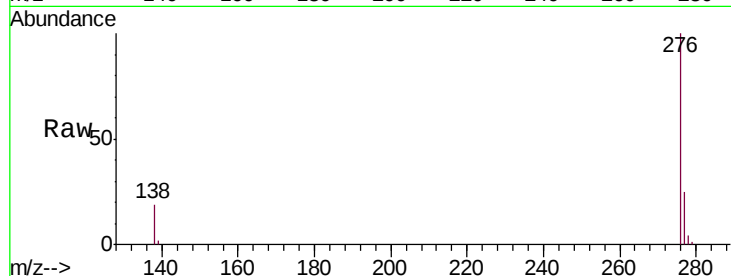
Acq: 14 Aug 2019 12:21

Instrument :

BNA_N

ClientSampleId :

EXT-032-SW176-073119



Tgt Ion: 276 Resp: 969618

Ion Ratio Lower Upper

276 100

277 24.6 19.8 29.8

138 18.9 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

