

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN081319\
 Data File : BN007164.D
 Acq On : 14 Aug 2019 11:45
 Operator : HP/JU
 Sample : K4173-22
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-015-SW090-080119

Quant Time: Aug 14 13:16:50 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	9302	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	35919	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	20794	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	45633	0.40	ng	0.00
26) Chrysene-d12	21.05	240	43899	0.40	ng	-0.01
32) Perylene-d12	23.16	264	51821	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.07	112	5524	0.25	ng	0.00
4) Phenol-d6	6.62	99	7263	0.26	ng	0.00
7) Nitrobenzene-d5	8.56	82	5905	0.20	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	13152	0.20	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2321	0.21	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3485	0.12	ng	0.00
24) Fluoranthene-d10	18.87	212	31621m	0.20	ng	0.00
28) Terphenyl-d14	19.49	244	25423	0.21	ng	0.00

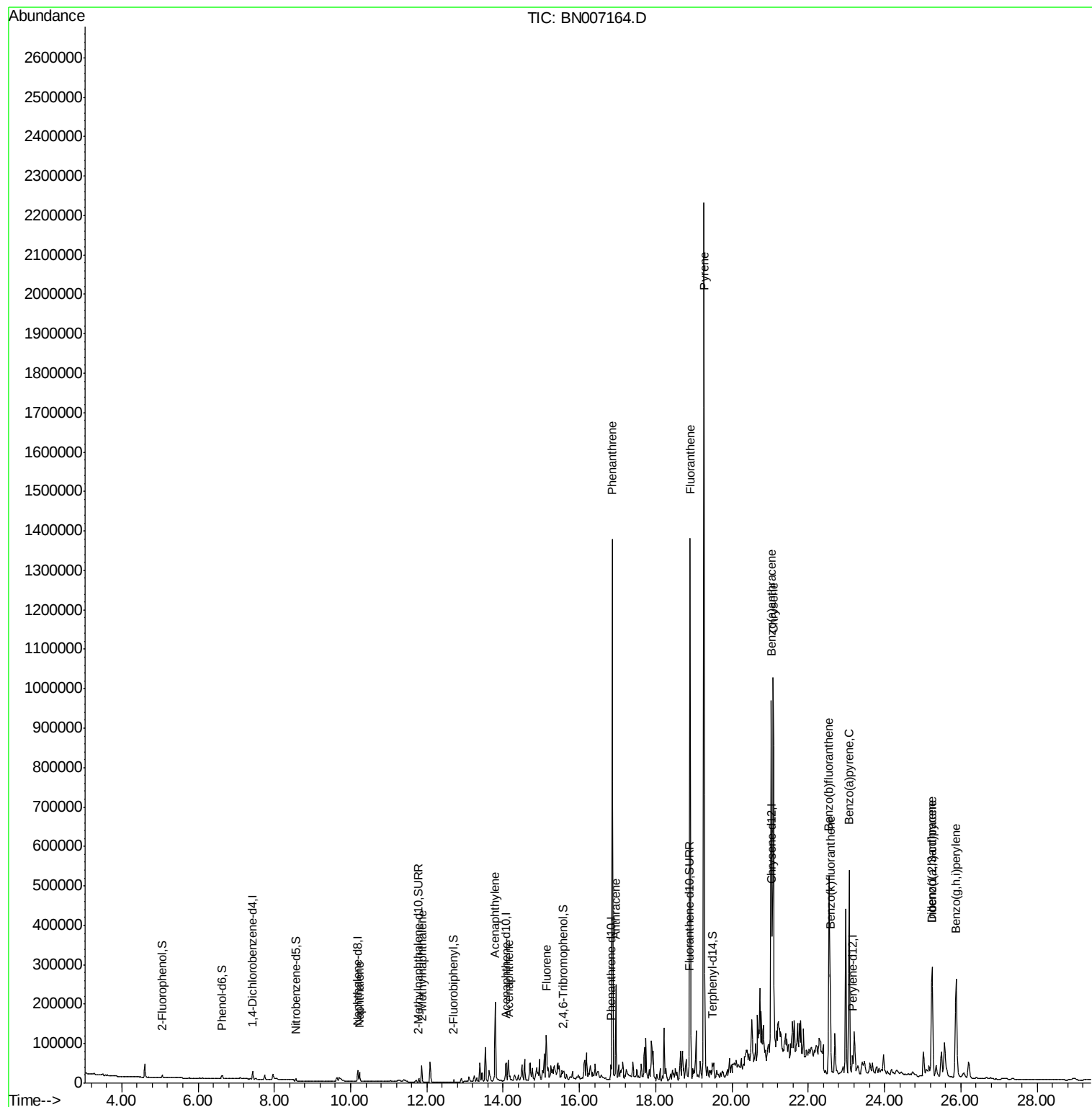
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.24	128	27945	0.277	ng	99
11) 2-Methylnaphthalene	11.87	142	30782	0.431	ng	97
15) Acenaphthylene	13.79	152	262135	2.412	ng	99
16) Acenaphthene	14.14	154	31331	0.450	ng	94
17) Fluorene	15.13	166	80098	0.769	ng	85
22) Phenanthrene	16.87	178	1331259	9.734	ng	100
23) Anthracene	16.96	178	271468	2.173	ng	99
25) Fluoranthene	18.90	202	1292376	7.388	ng	98
27) Pyrene	19.26	202	2016139	13.096	ng	97
29) Benzo(a)anthracene	21.03	228	872586m	5.435	ng	
30) Chrysene	21.08	228	890364	5.708	ng	96
31) Indeno(1,2,3-cd)pyrene	25.25	276	428342	2.492	ng	99
33) Benzo(b)fluoranthene	22.54	252	817329	4.600	ng	99
34) Benzo(k)fluoranthene	22.58	252	255455m	1.456	ng	
35) Benzo(a)pyrene	23.07	252	692112	4.296	ng	99
36) Dibenzo(a,h)anthracene	25.26	278	125069	0.778	ng	# 85
37) Benzo(g,h,i)perylene	25.88	276	499211	3.019	ng	99

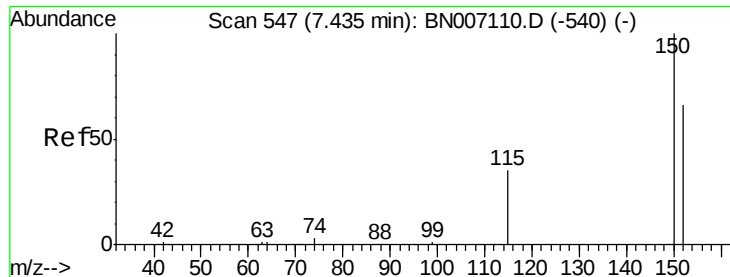
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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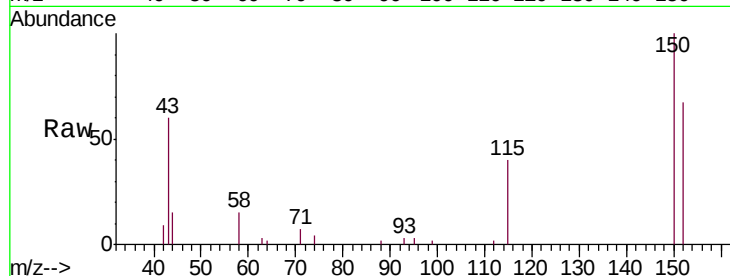


#1

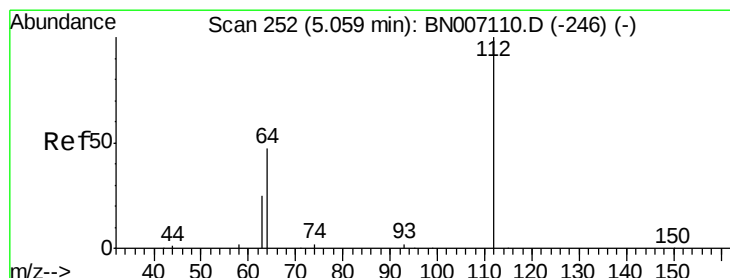
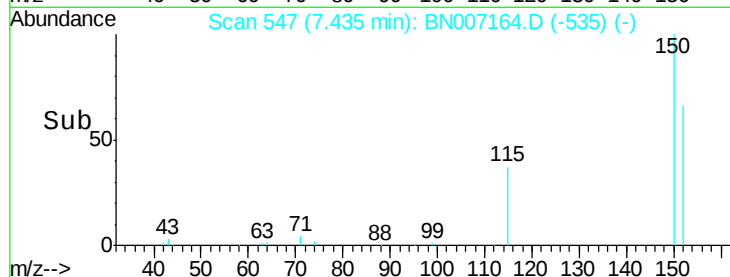
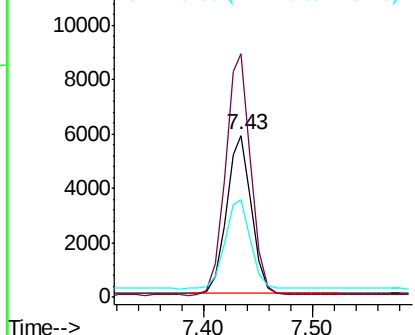
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007164.D
Acq: 14 Aug 2019 11:45

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW090-080119

Tgt Ion:152 Resp: 9302
Ion Ratio Lower Upper
152 100
150 150.1 121.7 182.5
115 60.0 46.2 69.4



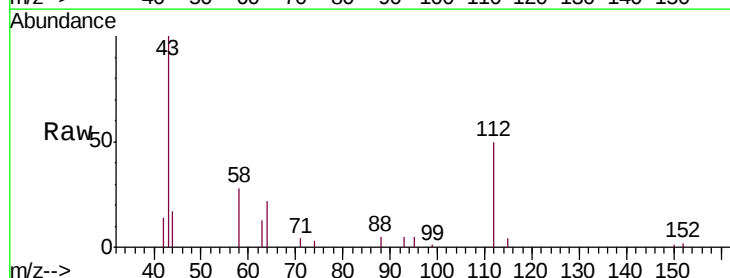
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



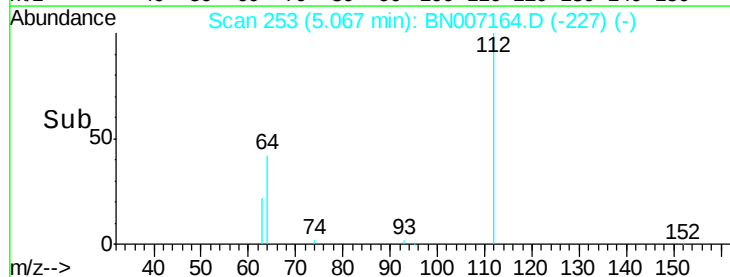
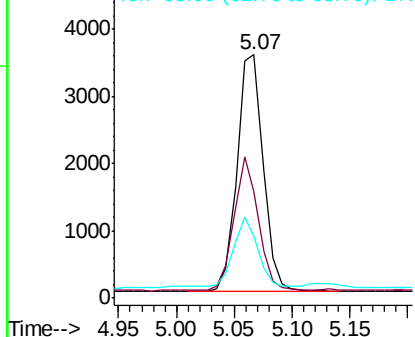
#3

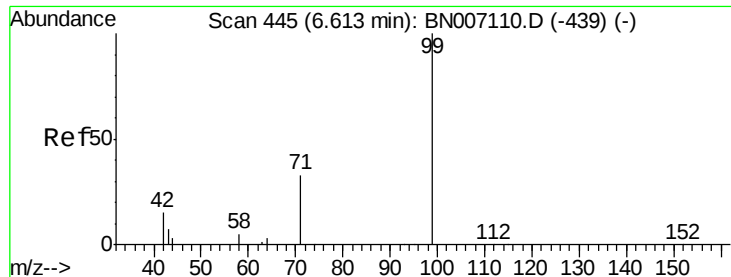
2-Fluorophenol
Concen: 0.247 ng
RT: 5.07 min Scan# 253
Delta R.T. 0.01 min
Lab File: BN007164.D
Acq: 14 Aug 2019 11:45

Tgt Ion:112 Resp: 5524
Ion Ratio Lower Upper
112 100
64 51.7 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: 0.262 ng

RT: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

Instrument :

BNA_N

ClientSampleId :

EXT-015-SW090-080119

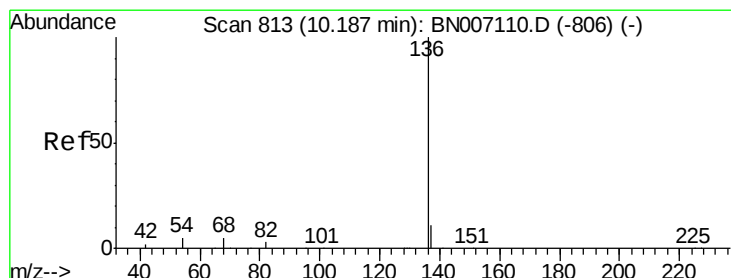
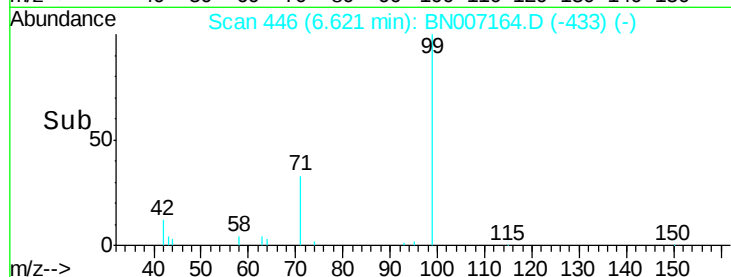
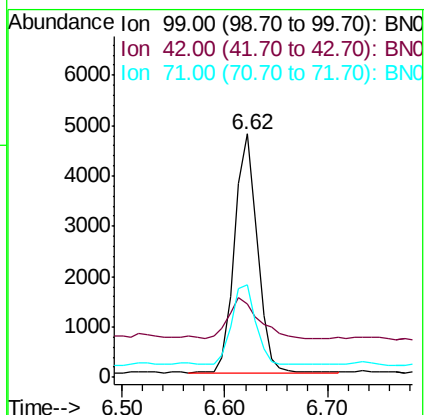
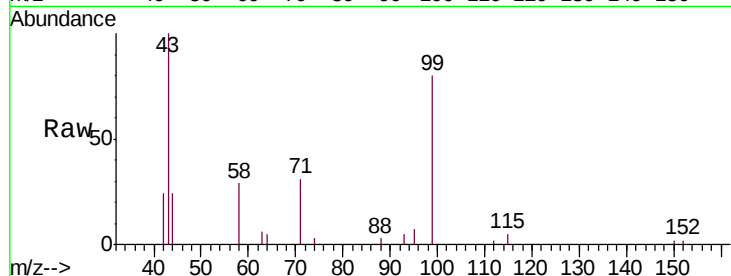
Tgt Ion: 99 Resp: 7263

Ion Ratio Lower Upper

99 100

42 23.1 15.8 23.6

71 36.6 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: BN007164.D

Acq: 14 Aug 2019 11:45

Tgt Ion: 136 Resp: 35919

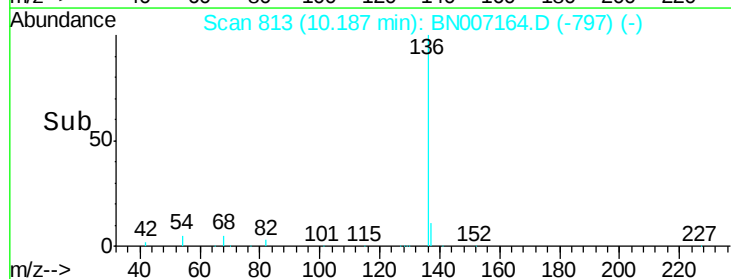
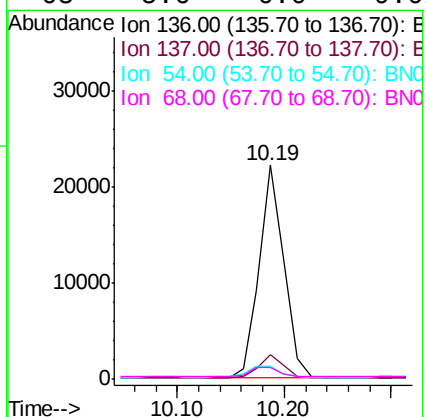
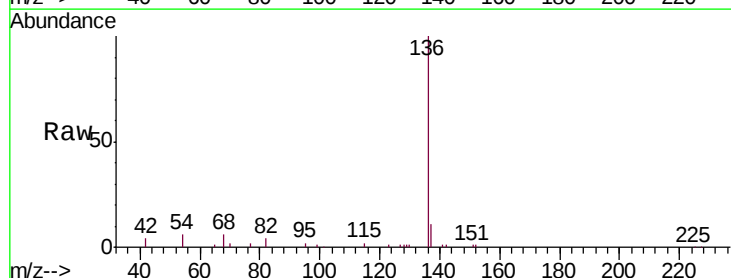
Ion Ratio Lower Upper

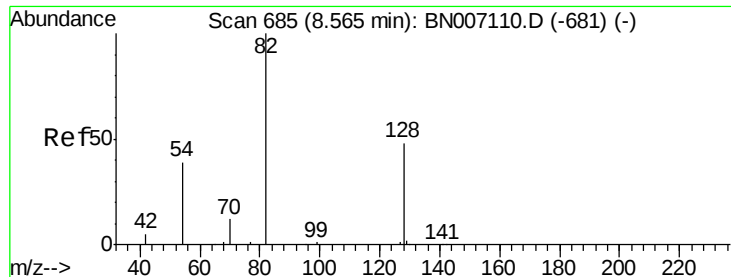
136 100

137 11.4 9.4 14.0

54 6.1 6.6 9.8#

68 5.6 6.0 9.0#





#7

Nitrobenzene-d5

Concen: 0.204 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

Instrument :

BNA_N

ClientSampleId :

EXT-015-SW090-080119

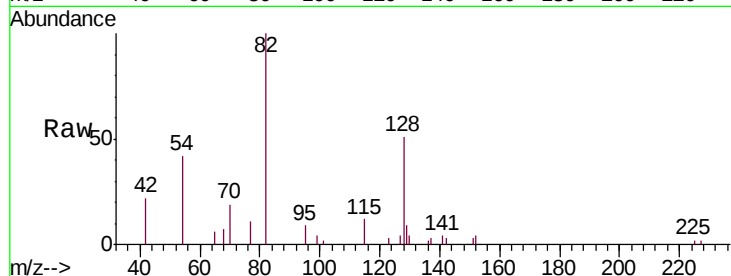
Tgt Ion: 82 Resp: 5905

Ion Ratio Lower Upper

82 100

128 50.8 34.6 51.8

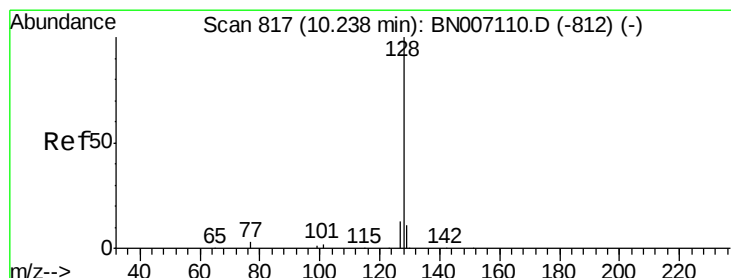
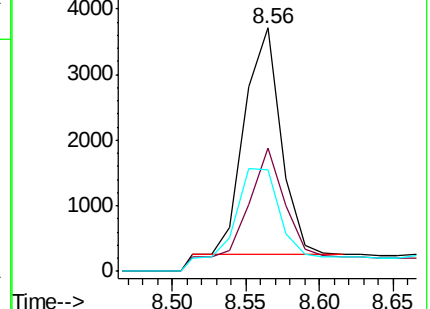
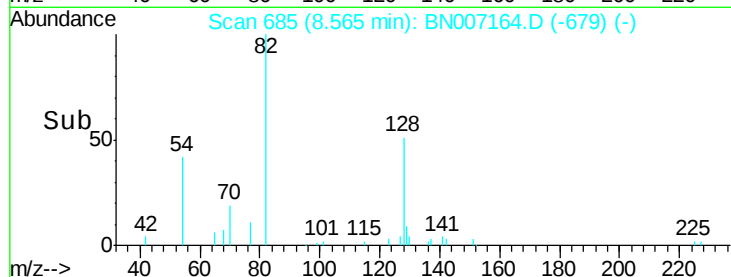
54 42.0 36.2 54.4



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) (-)



#8

Naphthalene

Concen: 0.277 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

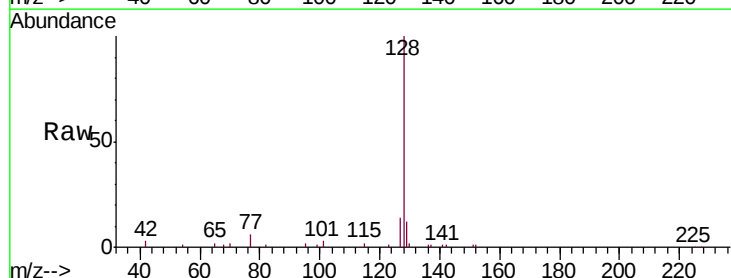
Tgt Ion: 128 Resp: 27945

Ion Ratio Lower Upper

128 100

129 12.1 9.4 14.2

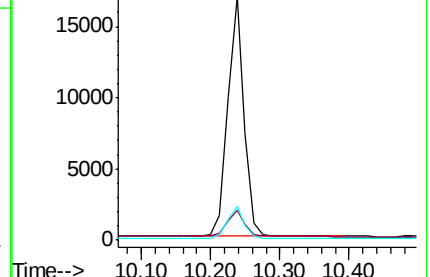
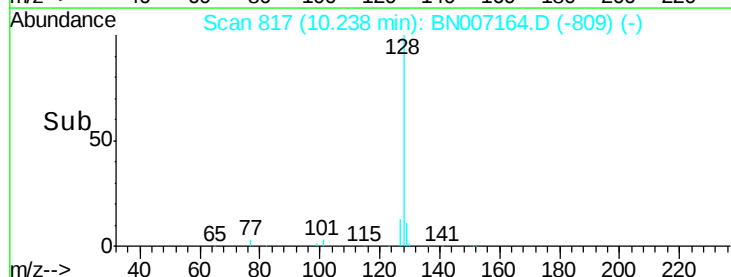
127 13.6 11.0 16.6

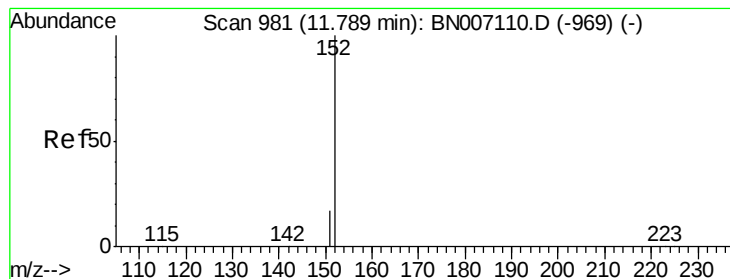


Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

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

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





#10

2-Methylnaphthalene-d10

Concen: 0.196 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

Instrument :

BNA_N

ClientSampleId :

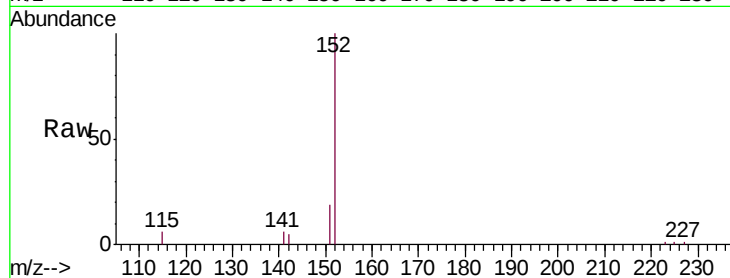
EXT-015-SW090-080119

Tgt Ion:152 Resp: 13152

Ion Ratio Lower Upper

152 100

151 20.0 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.79

8000

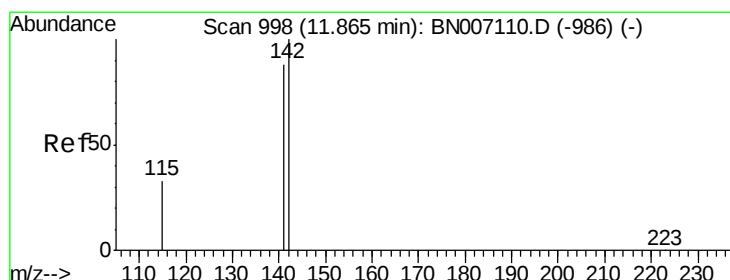
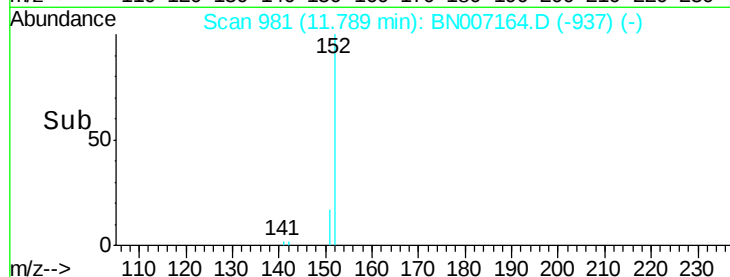
6000

4000

2000

0

Time-->



#11

2-Methylnaphthalene

Concen: 0.431 ng

RT: 11.87 min Scan# 998

Delta R.T. -0.00 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

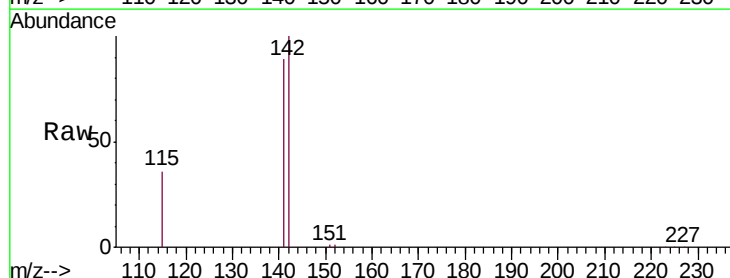
Tgt Ion:142 Resp: 30782

Ion Ratio Lower Upper

142 100

141 89.3 69.0 103.6

115 36.2 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

11.87

25000

20000

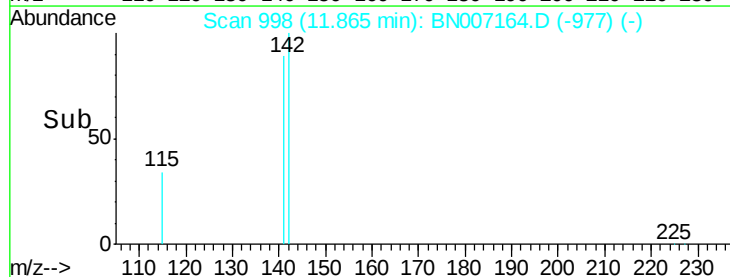
15000

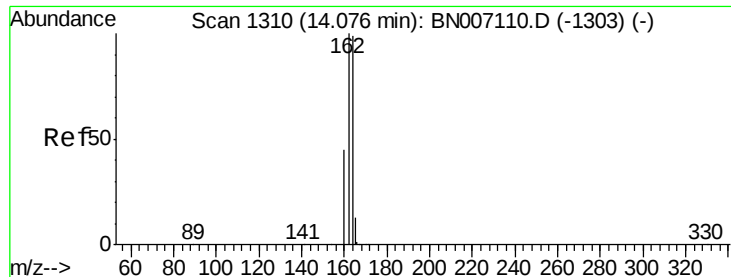
10000

5000

0

Time-->





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

Instrument :

BNA_N

ClientSampleId :

EXT-015-SW090-080119

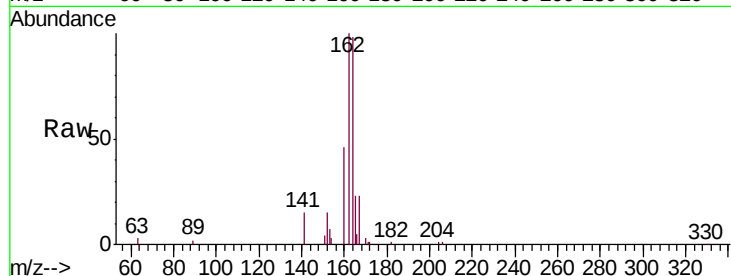
Tgt Ion:164 Resp: 20794

Ion Ratio Lower Upper

164 100

162 101.6 82.2 123.4

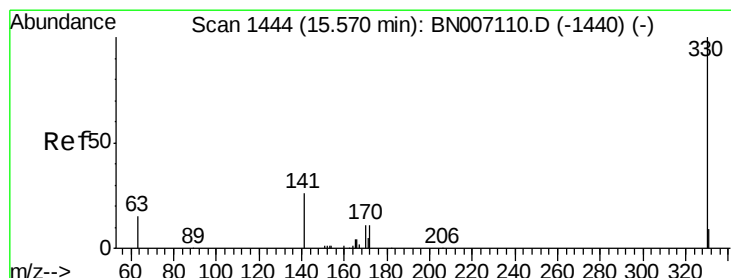
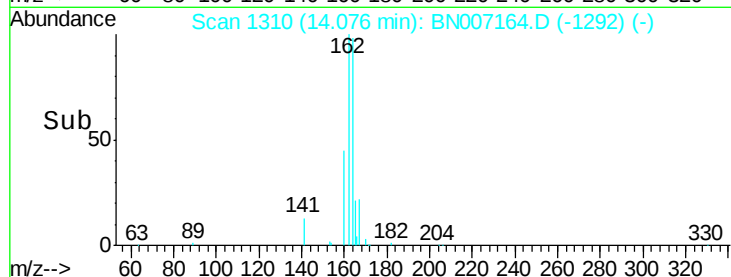
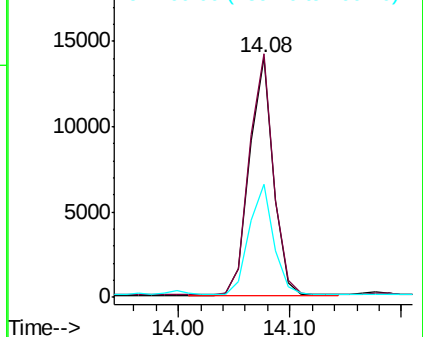
160 47.0 38.3 57.5



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: 0.207 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

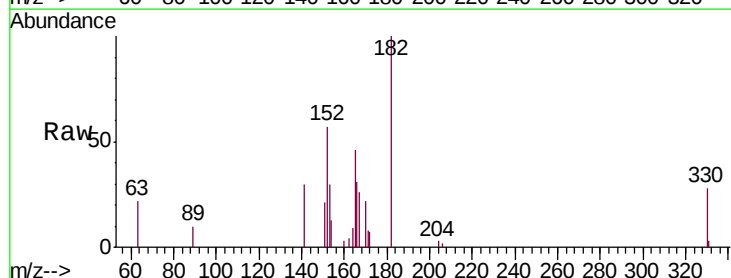
Tgt Ion:330 Resp: 2321

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

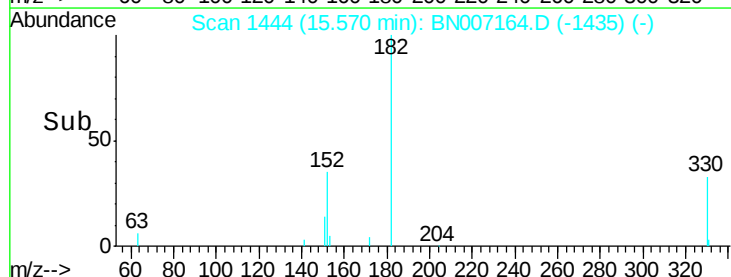
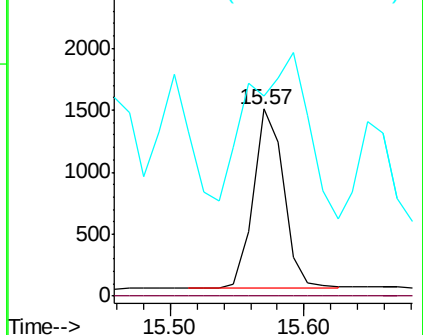
141 0.0 33.6 50.4#

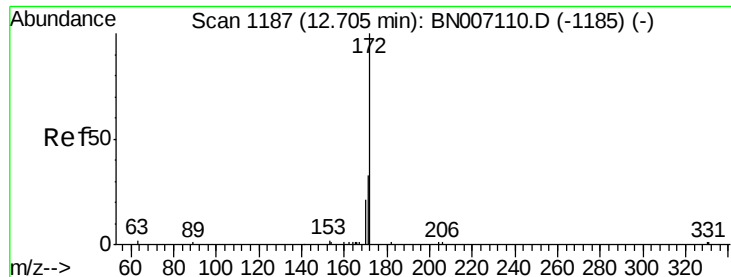


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

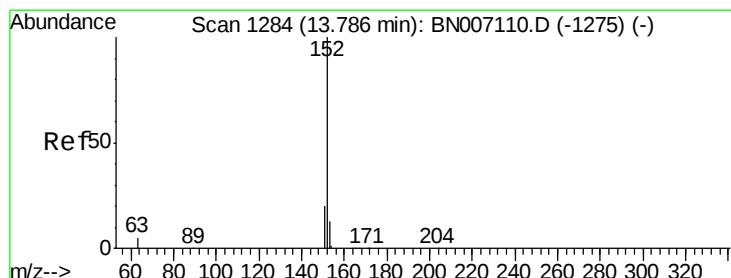
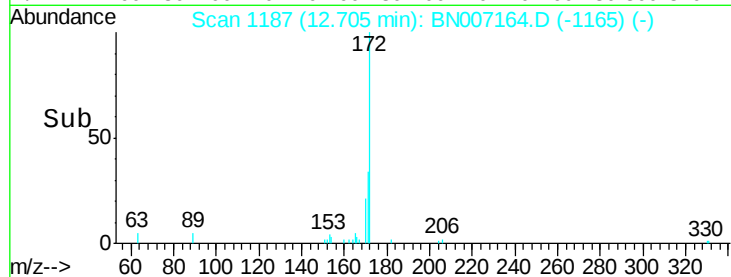
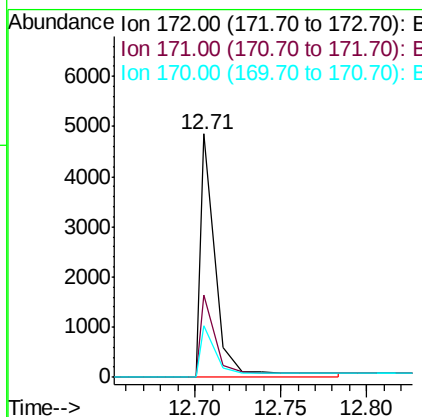
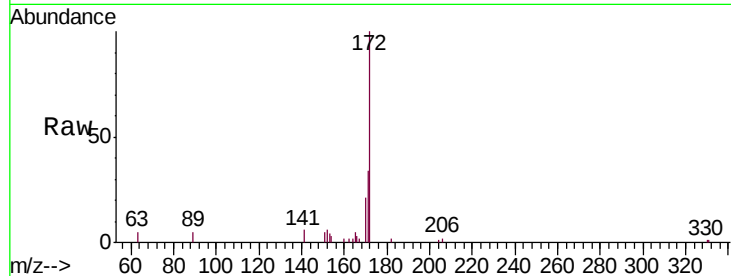




#14
2-Fluorobiphenyl
Concen: 0.115 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007164.D
Acq: 14 Aug 2019 11:45

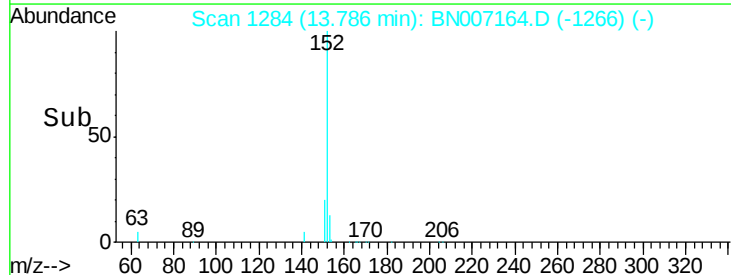
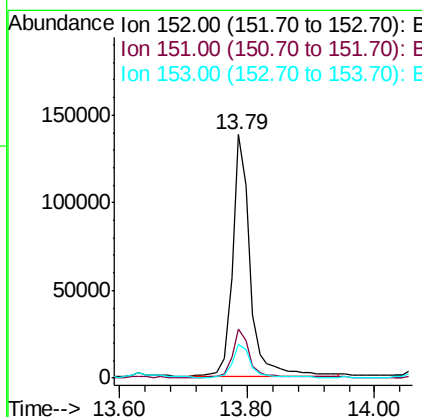
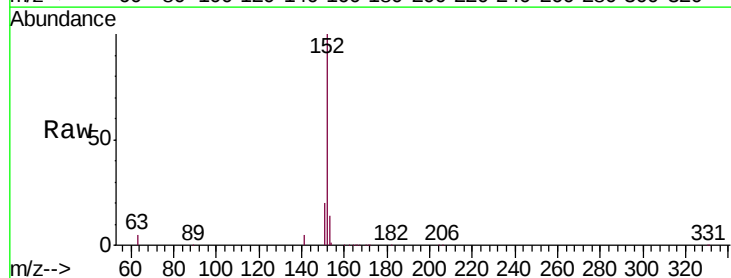
Instrument :
BNA_N
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EXT-015-SW090-080119

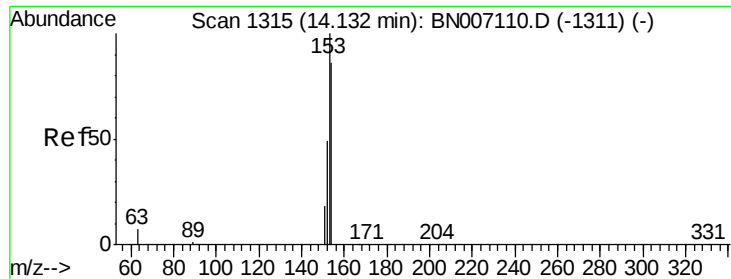
Tgt Ion:172 Resp: 3485
Ion Ratio Lower Upper
172 100
171 33.8 26.3 39.5
170 21.2 17.0 25.4



#15
Acenaphthylene
Concen: 2.412 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007164.D
Acq: 14 Aug 2019 11:45

Tgt Ion:152 Resp: 262135
Ion Ratio Lower Upper
152 100
151 19.6 15.8 23.6
153 13.7 10.4 15.6





#16

Acenaphthene

Concen: 0.450 ng

RT: 14.14 min Scan# 1316

Delta R.T. -0.00 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

Instrument :

BNA_N

ClientSampleId :

EXT-015-SW090-080119

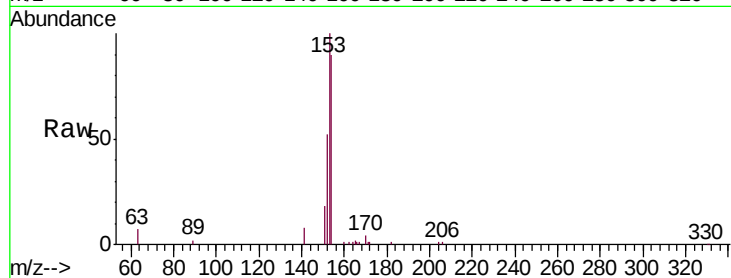
Tgt Ion:154 Resp: 31331

Ion Ratio Lower Upper

154 100

153 119.7 89.5 134.3

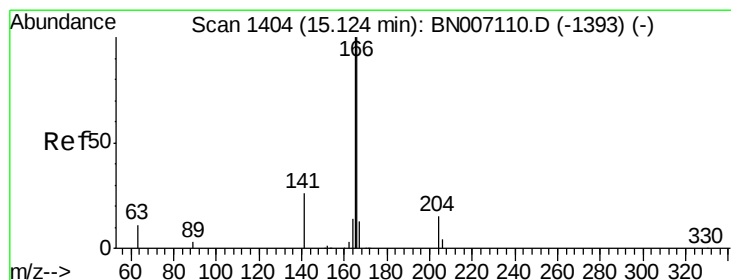
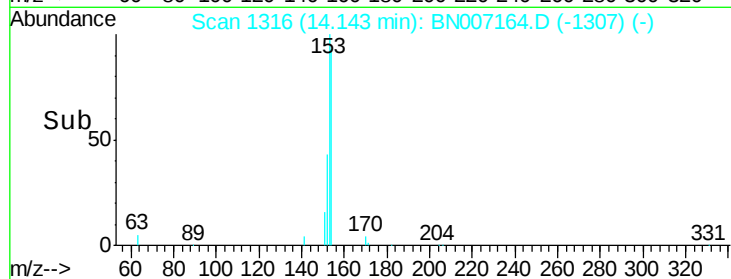
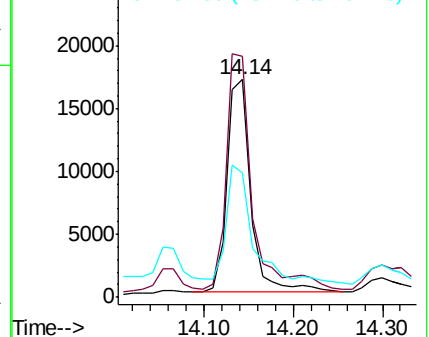
152 54.3 44.8 67.2



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: 0.769 ng

RT: 15.13 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

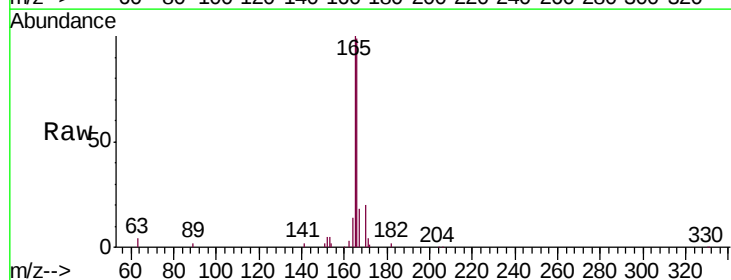
Tgt Ion:166 Resp: 80098

Ion Ratio Lower Upper

166 100

165 113.6 77.9 116.9

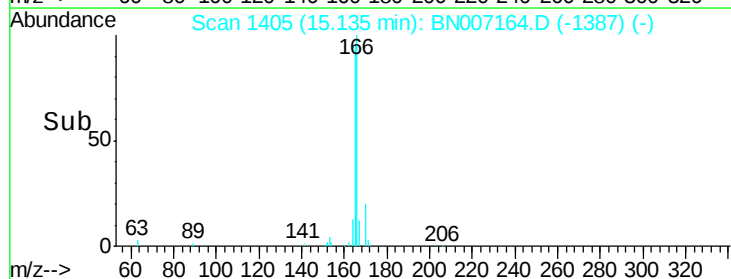
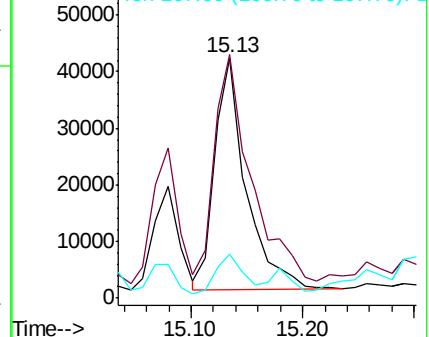
167 14.9 10.9 16.3

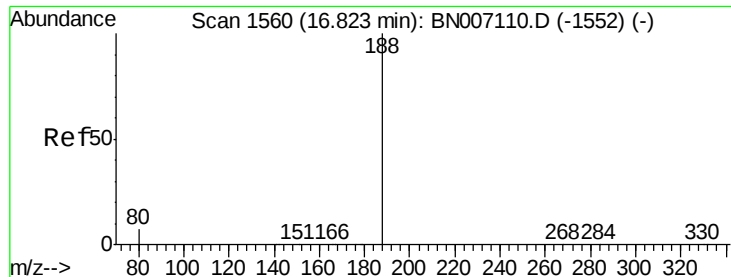


Abundance Ion 166.00 (165.70 to 166.70): E

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: BN007164.D

Acq: 14 Aug 2019 11:45

Instrument :

BNA_N

ClientSampleId :

EXT-015-SW090-080119

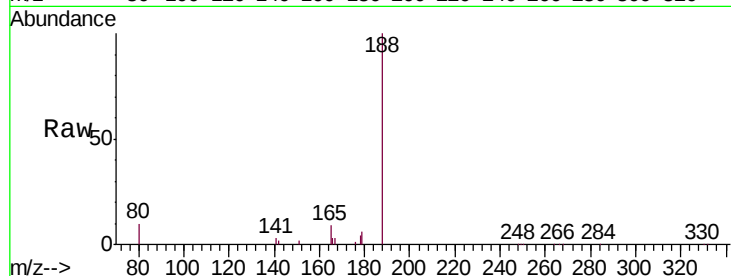
Tgt Ion:188 Resp: 45633

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

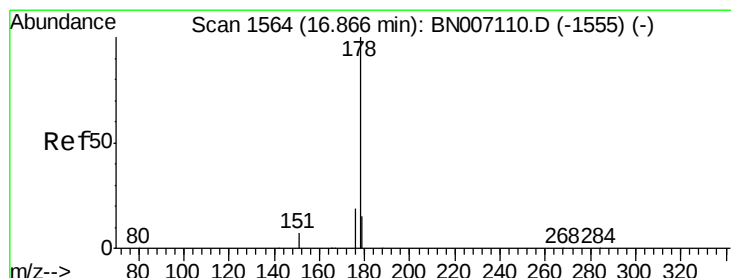
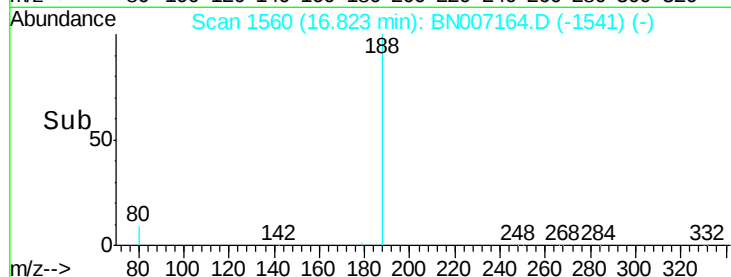
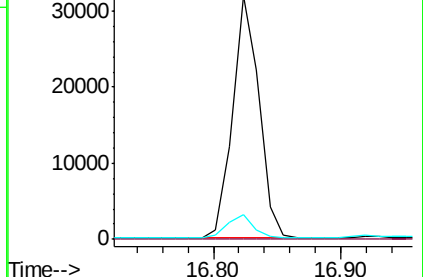
80 9.9 7.8 11.6



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: 9.734 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

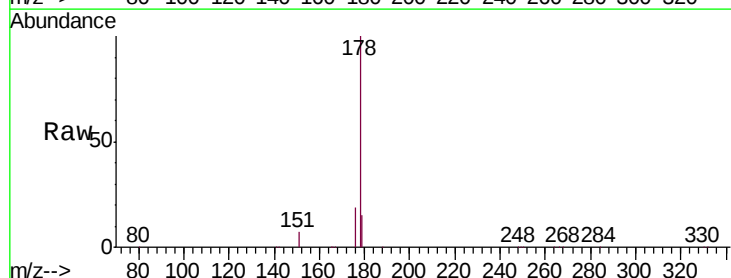
Tgt Ion:178 Resp: 1331259

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

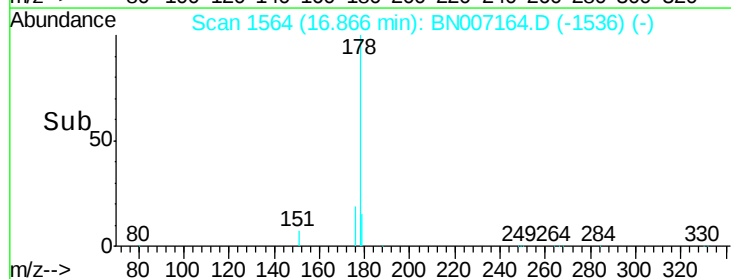
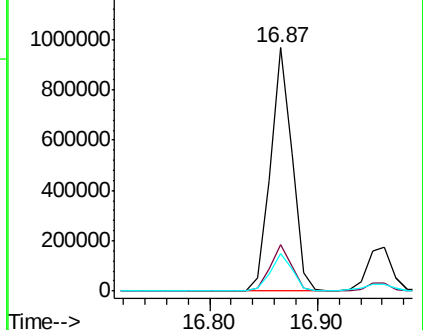
179 15.7 12.3 18.5

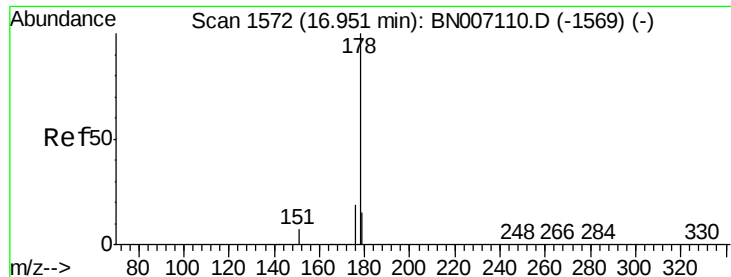


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 2.173 ng

RT: 16.96 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

Instrument :

BNA_N

ClientSampleId :

EXT-015-SW090-080119

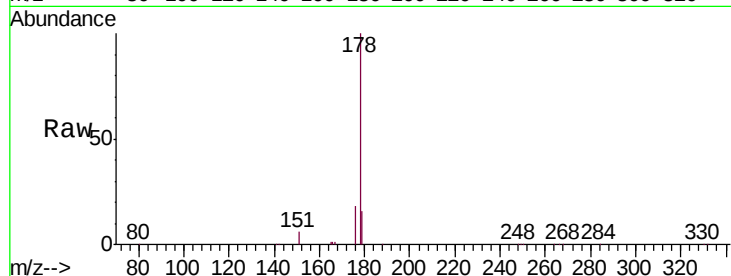
Tgt Ion:178 Resp: 271468

Ion Ratio Lower Upper

178 100

176 18.2 14.6 21.8

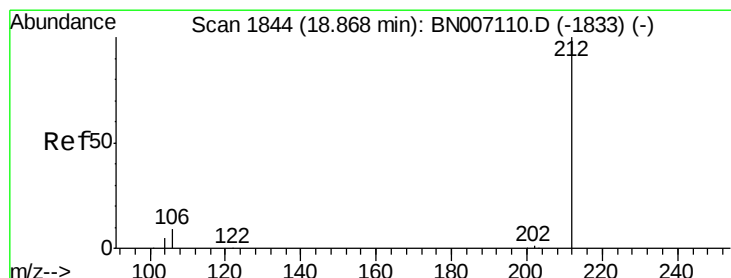
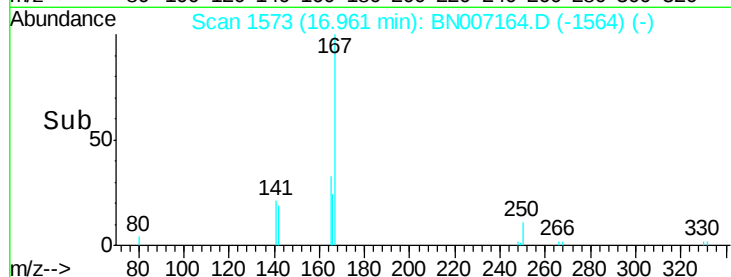
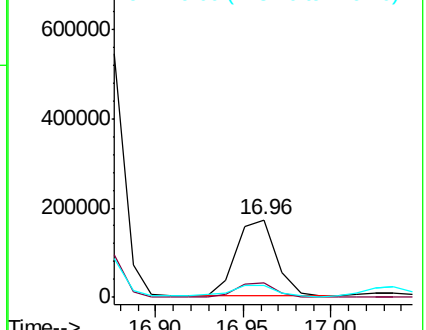
179 16.5 12.5 18.7



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: 0.195 ng m

RT: 18.87 min Scan# 1845

Delta R.T. -0.00 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

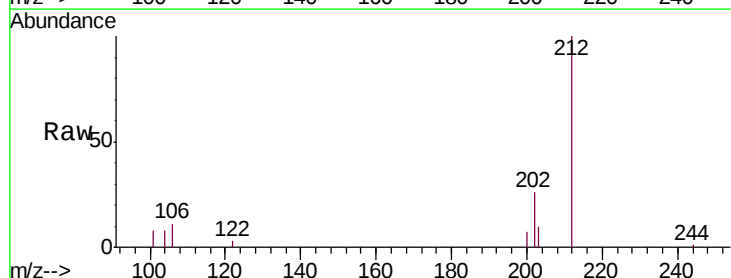
Tgt Ion:212 Resp: 31621

Ion Ratio Lower Upper

212 100

106 1.4 8.2 12.2#

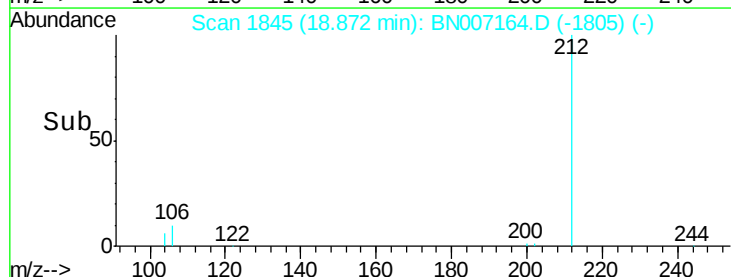
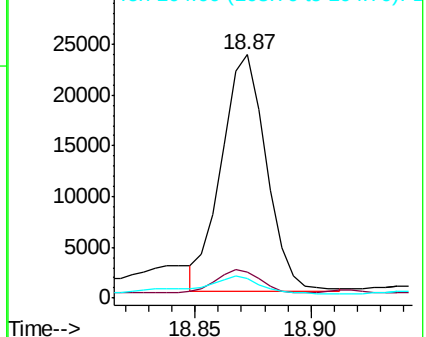
104 0.8 4.5 6.7#

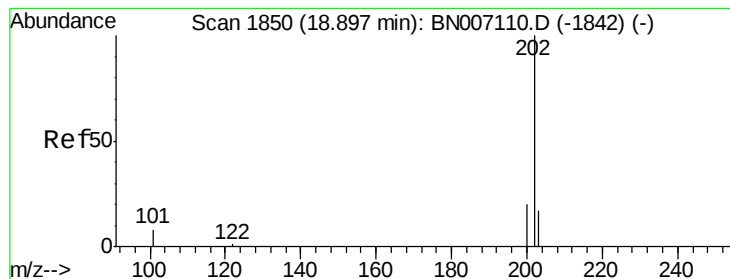


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 7.388 ng

RT: 18.90 min Scan# 1851

Delta R.T. -0.00 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

Instrument :

BNA_N

ClientSampleId :

EXT-015-SW090-080119

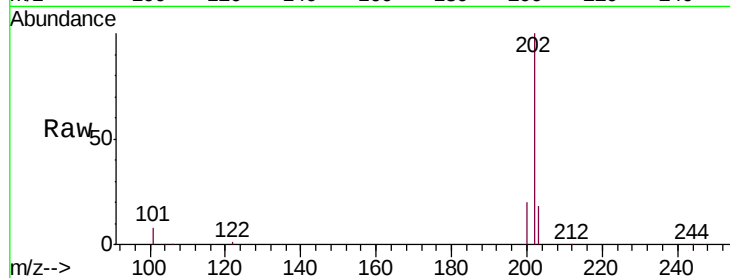
Tgt Ion:202 Resp: 1292376

Ion Ratio Lower Upper

202 100

101 9.0 7.0 10.4

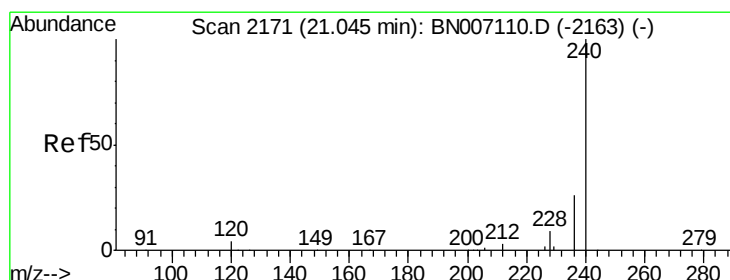
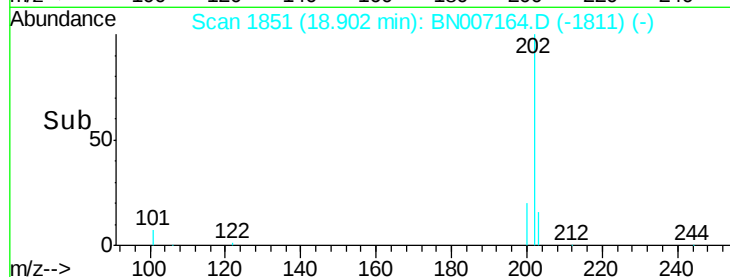
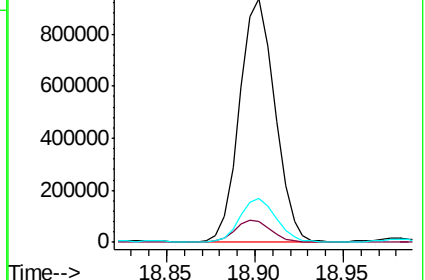
203 18.2 13.8 20.8



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: BN007164.D

Acq: 14 Aug 2019 11:45

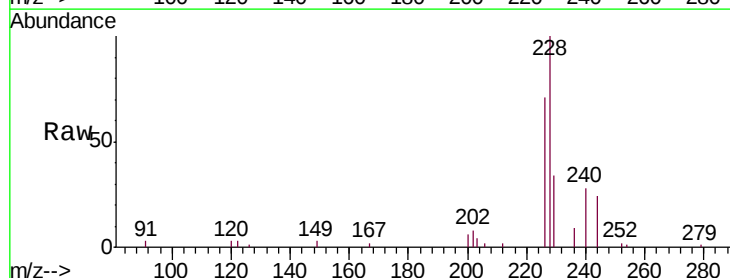
Tgt Ion:240 Resp: 43899

Ion Ratio Lower Upper

240 100

120 11.6 4.0 6.0#

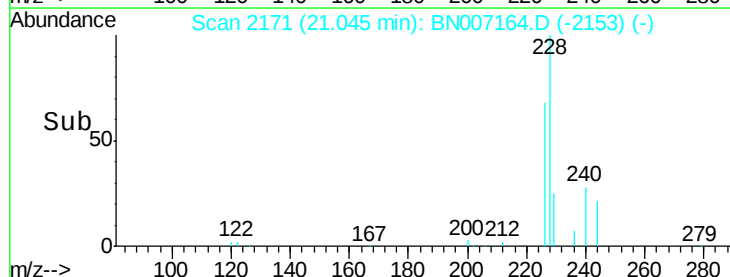
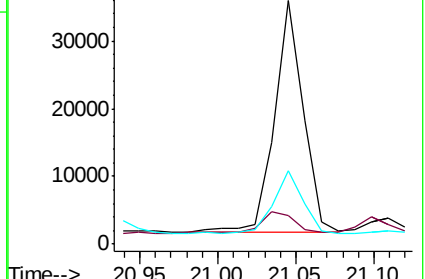
236 30.1 21.3 31.9

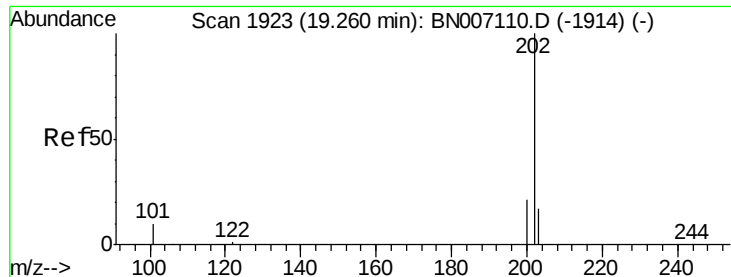


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

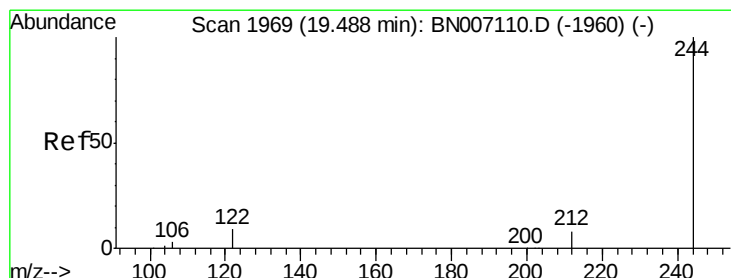
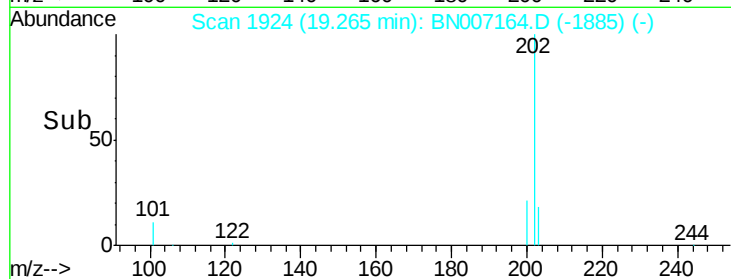
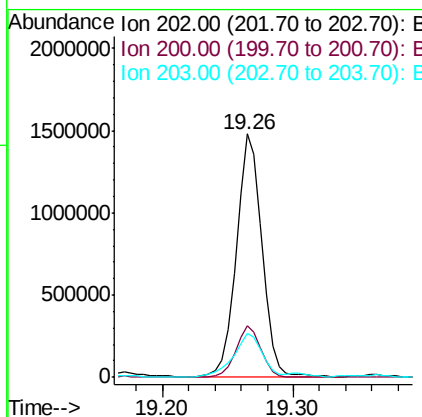
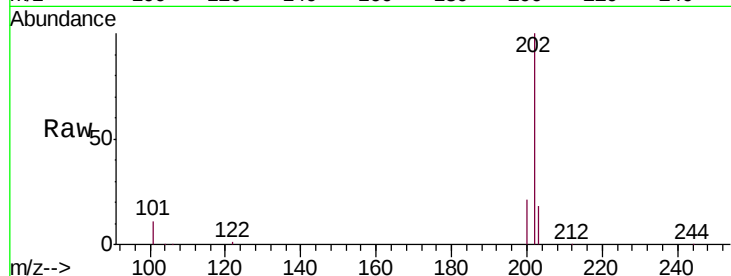




#27
 Pyrene
 Concen: 13.096 ng
 RT: 19.26 min Scan# 1924
 Delta R.T. -0.01 min
 Lab File: BN007164.D
 Acq: 14 Aug 2019 11:45

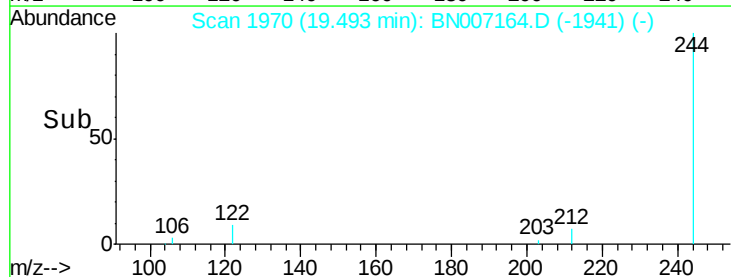
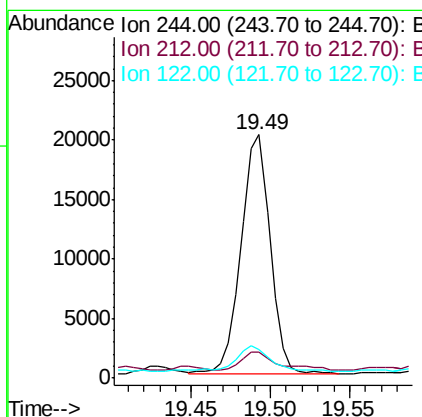
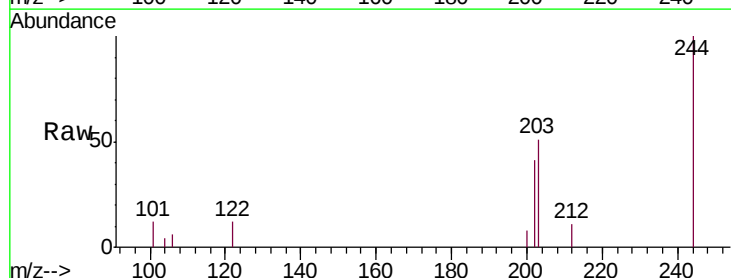
Instrument :
 BNA_N
 ClientSampleId :
 EXT-015-SW090-080119

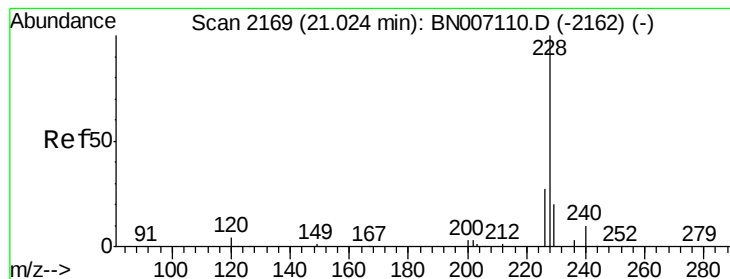
Tgt Ion:202 Resp: 2016139
 Ion Ratio Lower Upper
 202 100
 200 20.9 16.6 24.8
 203 20.2 14.0 21.0



#28
 Terphenyl-d14
 Concen: 0.213 ng
 RT: 19.49 min Scan# 1970
 Delta R.T. -0.01 min
 Lab File: BN007164.D
 Acq: 14 Aug 2019 11:45

Tgt Ion:244 Resp: 25423
 Ion Ratio Lower Upper
 244 100
 212 10.8 6.2 9.2#
 122 11.8 7.4 11.2#





#29

Benzo(a)anthracene

Concen: 5.435 ng m

RT: 21.03 min Scan# 2170

Delta R.T. -0.00 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

Instrument :

BNA_N

ClientSampleId :

EXT-015-SW090-080119

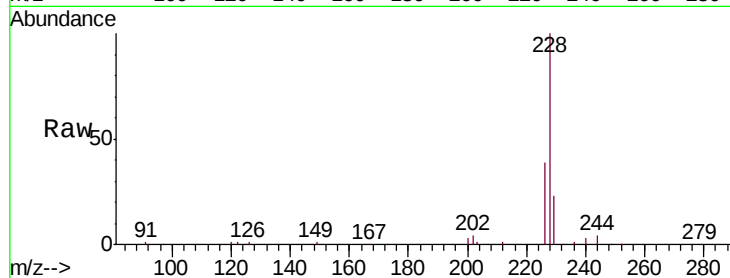
Tgt Ion:228 Resp: 872586

Ion Ratio Lower Upper

228 100

226 39.0 21.8 32.6#

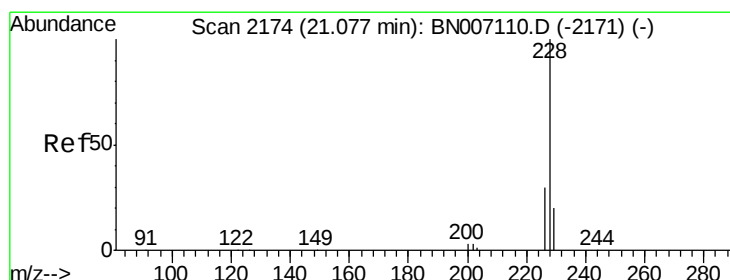
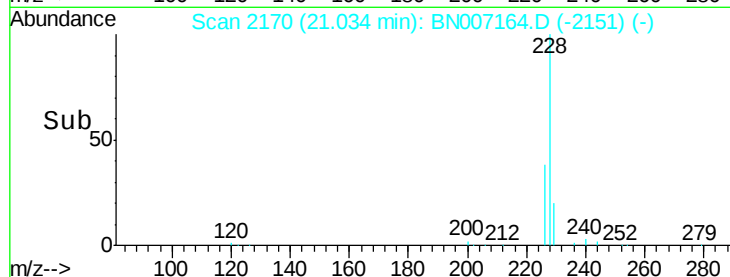
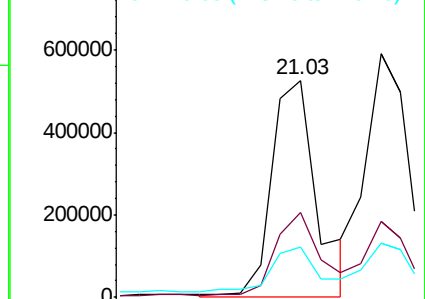
229 23.4 15.6 23.4#



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: 5.708 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

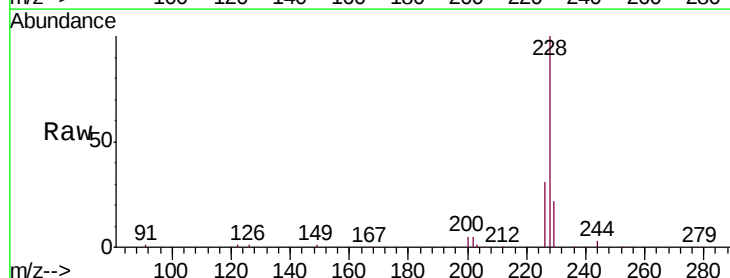
Tgt Ion:228 Resp: 890364

Ion Ratio Lower Upper

228 100

226 31.4 23.8 35.6

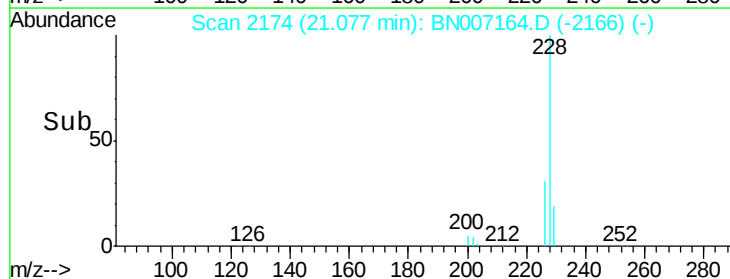
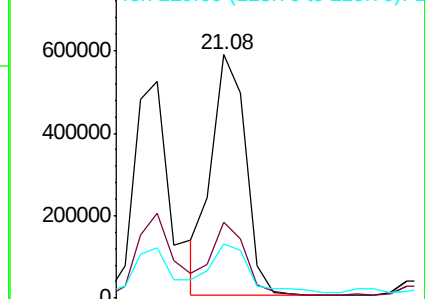
229 22.1 15.7 23.5

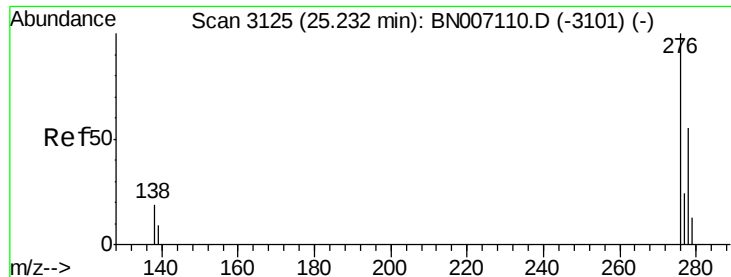


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Indeno(1,2,3-cd)pyrene

Concen: 2.492 ng

RT: 25.25 min Scan# 3130

Delta R.T. -0.00 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

Instrument :

BNA_N

ClientSampleId :

EXT-015-SW090-080119

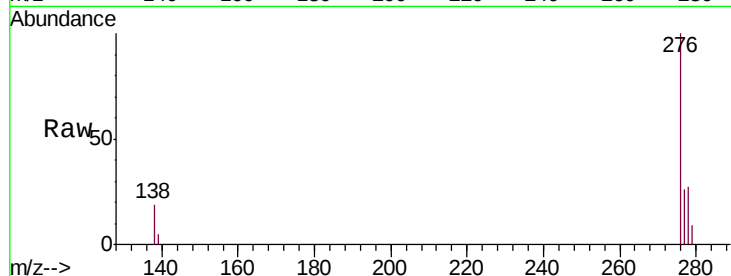
Tgt Ion:276 Resp: 428342

Ion Ratio Lower Upper

276 100

138 18.7 16.0 24.0

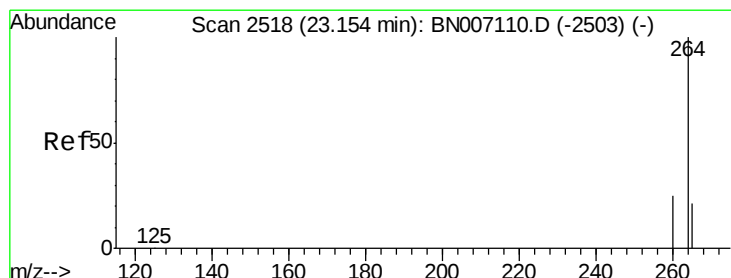
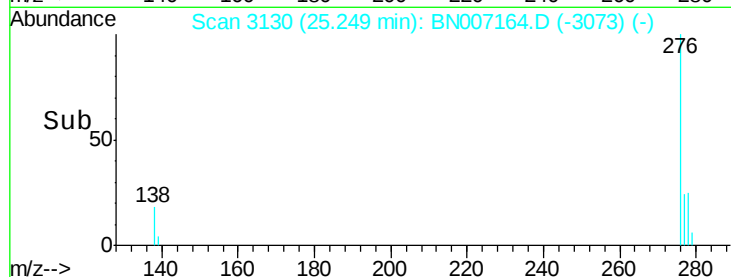
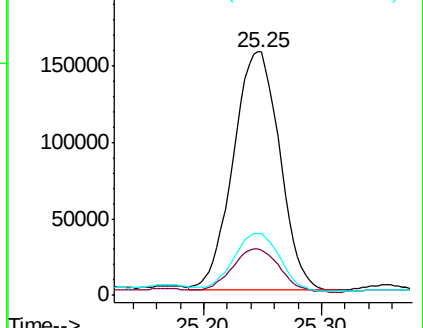
277 24.9 19.9 29.9



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: 23.16 min Scan# 2520

Delta R.T. -0.01 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

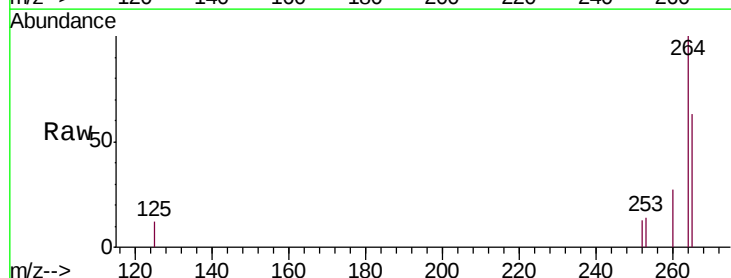
Tgt Ion:264 Resp: 51821

Ion Ratio Lower Upper

264 100

260 27.0 19.8 29.8

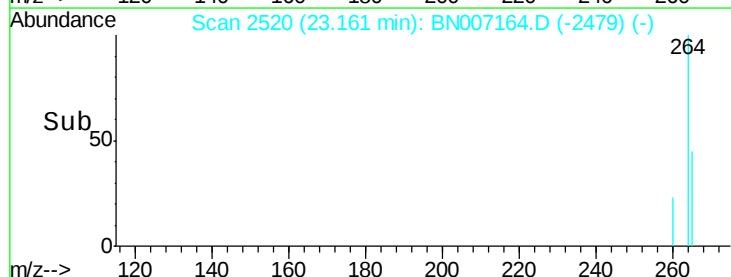
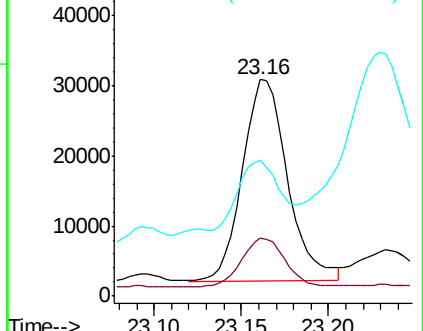
265 62.7 26.2 39.4#

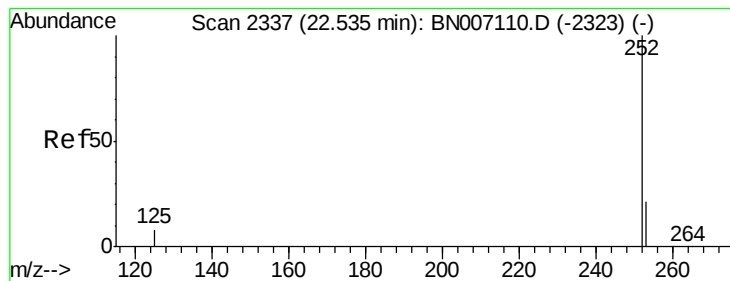


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 4.600 ng

RT: 22.54 min Scan# 2340

Delta R.T. -0.00 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

Instrument :

BNA_N

ClientSampleId :

EXT-015-SW090-080119

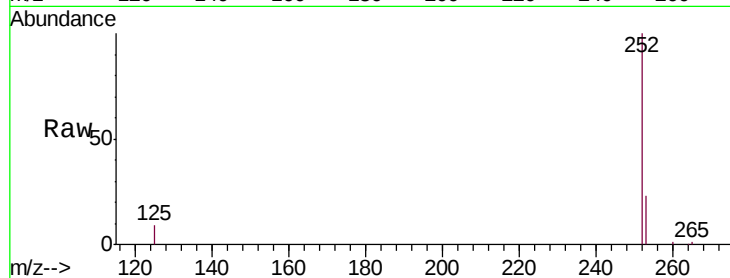
Tgt Ion:252 Resp: 817329

Ion Ratio Lower Upper

252 100

253 23.2 18.2 27.2

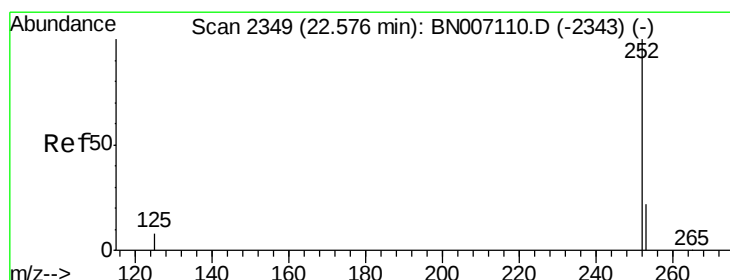
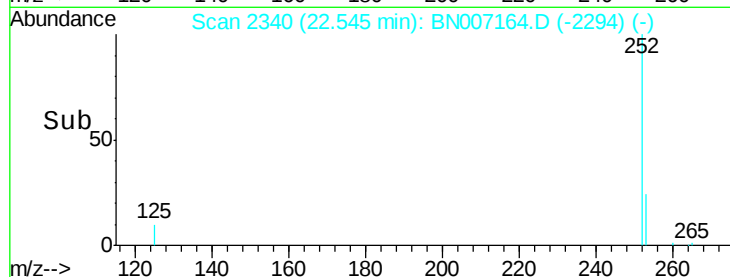
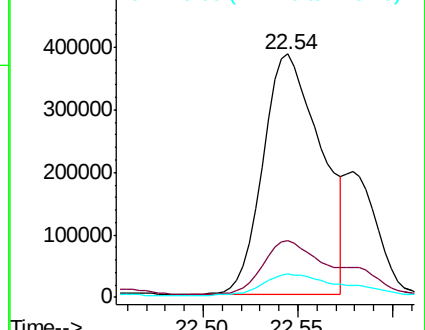
125 9.5 7.4 11.0



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#34

Benzo(k)fluoranthene

Concen: 1.456 ng m

RT: 22.58 min Scan# 2350

Delta R.T. -0.01 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

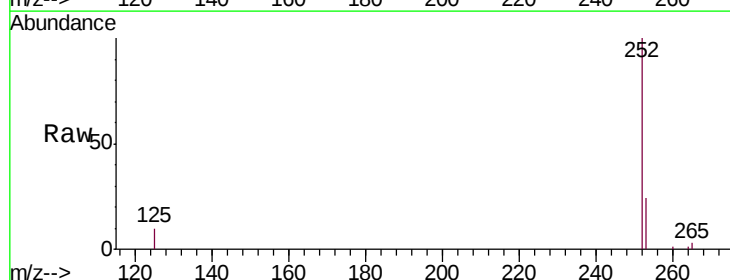
Tgt Ion:252 Resp: 255455

Ion Ratio Lower Upper

252 100

253 24.0 18.1 27.1

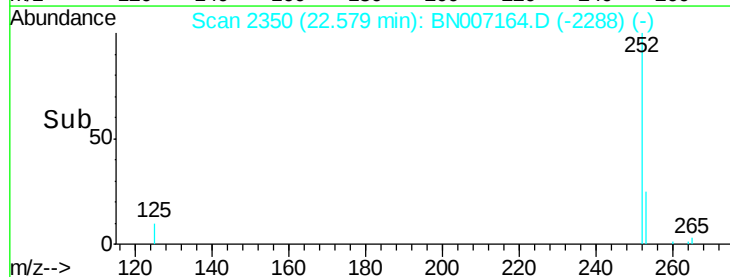
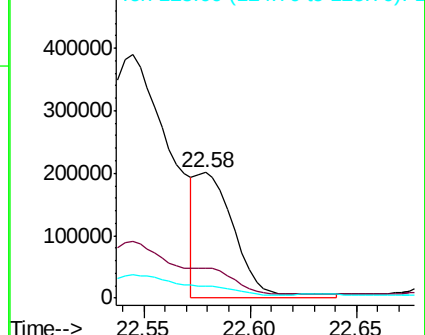
125 10.0 7.4 11.0

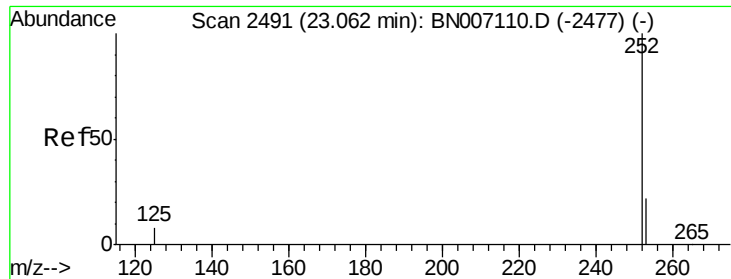


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#35

Benzo(a)pyrene

Concen: 4.296 ng

RT: 23.07 min Scan# 2494

Delta R.T. -0.01 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

Instrument :

BNA_N

ClientSampleId :

EXT-015-SW090-080119

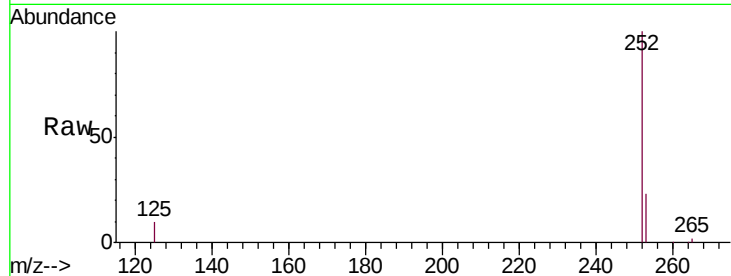
Tgt Ion:252 Resp: 692112

Ion Ratio Lower Upper

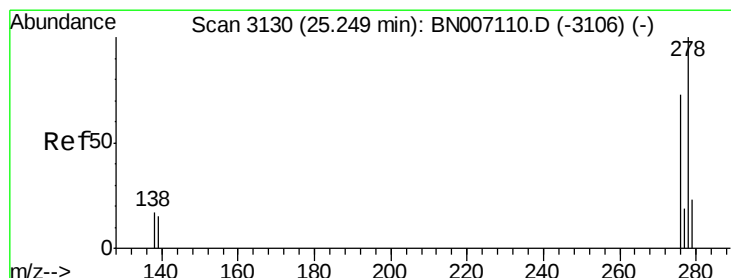
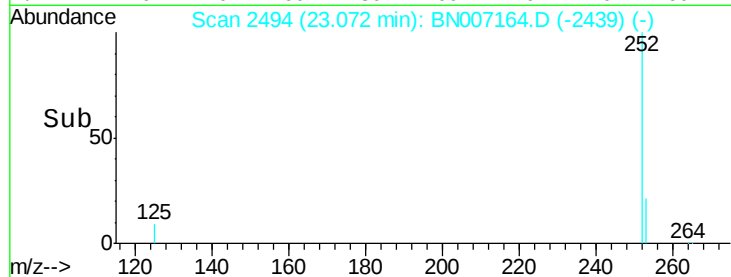
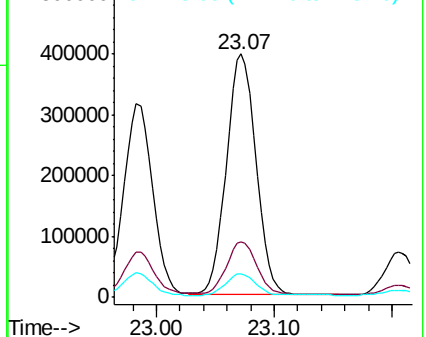
252 100

253 22.9 18.5 27.7

125 9.7 8.2 12.4



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



#36

Dibenzo(a,h)anthracene

Concen: 0.778 ng

RT: 25.26 min Scan# 3132

Delta R.T. -0.02 min

Lab File: BN007164.D

Acq: 14 Aug 2019 11:45

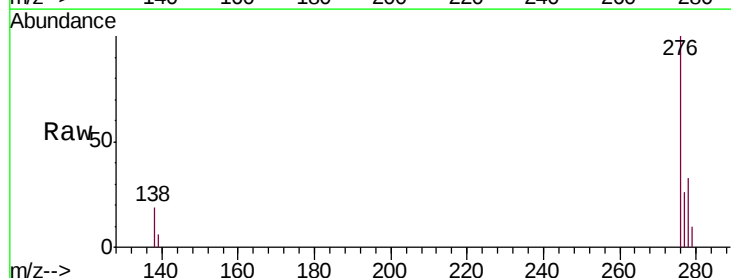
Tgt Ion:278 Resp: 125069

Ion Ratio Lower Upper

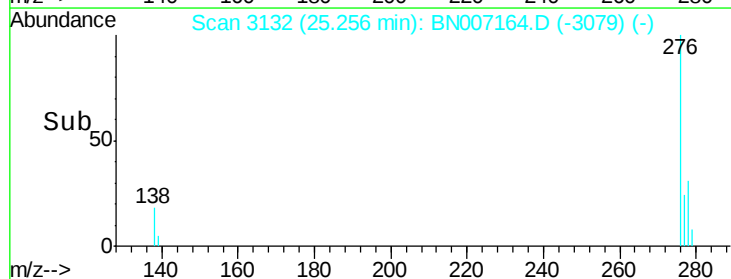
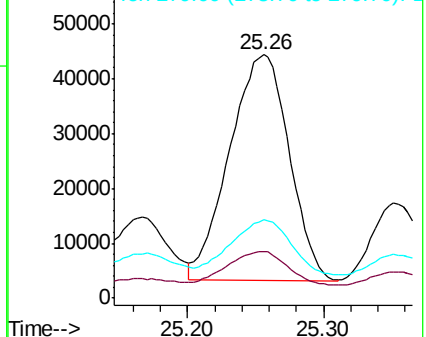
278 100

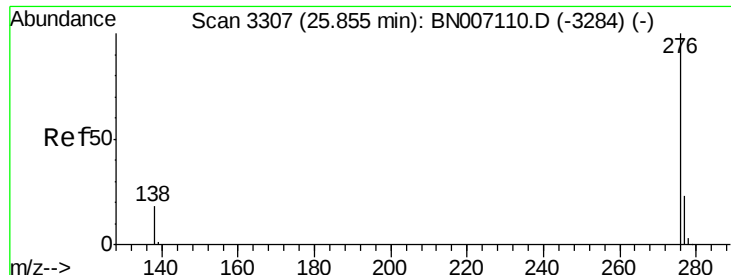
139 19.2 11.3 16.9#

279 32.0 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: 3.019 ng

RT: 25.88 min Scan# 3313

Delta R.T. -0.00 min

Lab File: BN007164.D

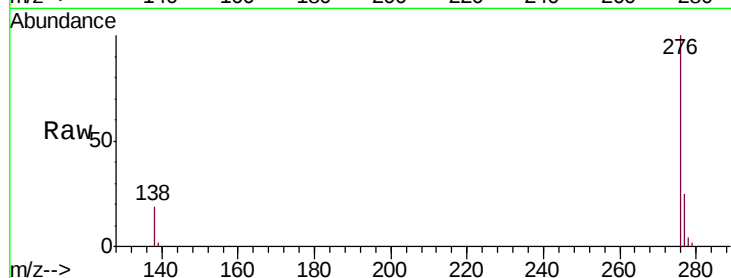
Acq: 14 Aug 2019 11:45

Instrument :

BNA_N

ClientSampleId :

EXT-015-SW090-080119



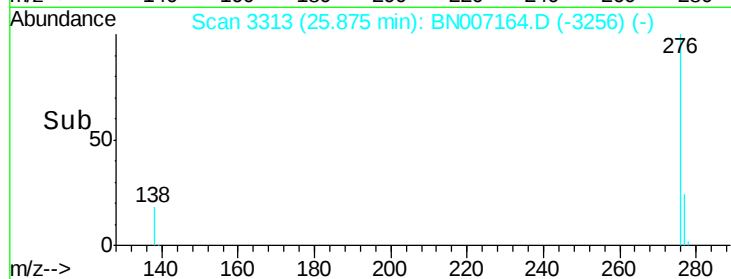
Tgt Ion: 276 Resp: 499211

Ion Ratio Lower Upper

276 100

277 24.9 19.8 29.8

138 19.1 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

