

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN081319\
 Data File : BN007138.D
 Acq On : 13 Aug 2019 18:55
 Operator : HP/JU
 Sample : K4173-18
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-009-SW145-080119-1

Quant Time: Aug 14 03:58:09 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	9424	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	36892	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	21089	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	48568	0.40	ng	0.00
26) Chrysene-d12	21.05	240	46642	0.40	ng	-0.01
32) Perylene-d12	23.16	264	51656	0.40	ng	-0.01

System Monitoring Compounds

3) 2-Fluorophenol	5.06	112	3716	0.16	ng	0.00
4) Phenol-d6	6.62	99	5035	0.18	ng	0.00
7) Nitrobenzene-d5	8.56	82	4138	0.14	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	9201	0.13	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1533	0.13	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	2548	0.08	ng	0.00
24) Fluoranthene-d10	18.87	212	21753	0.13	ng	0.00
28) Terphenyl-d14	19.49	244	16526	0.13	ng	-0.01

Target Compounds

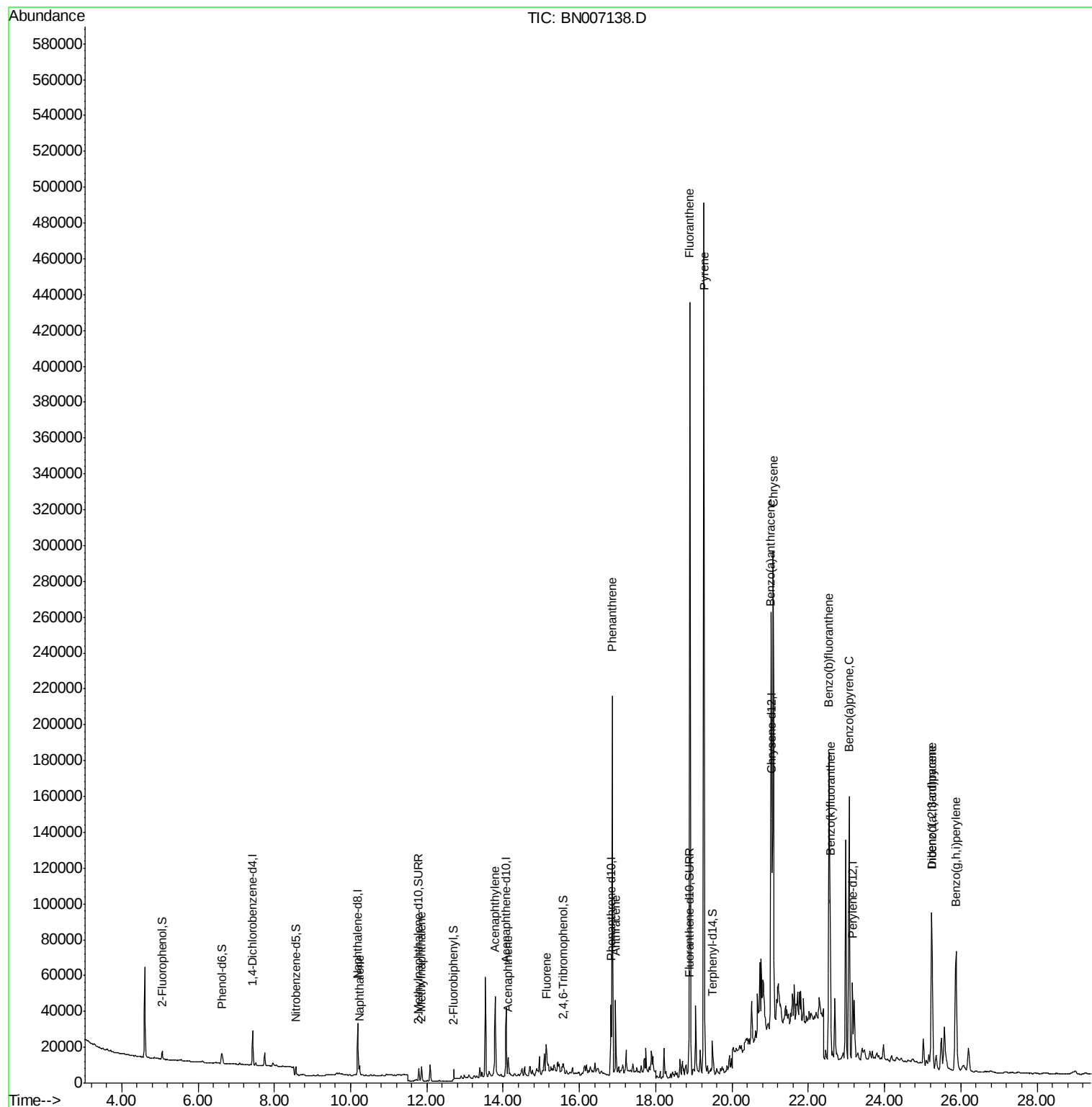
						Qvalue
8) Naphthalene	10.24	128	7266	0.070	ng	# 95
11) 2-Methylnaphthalene	11.86	142	6131	0.084	ng	# 94
15) Acenaphthylene	13.79	152	69212	0.628	ng	99
16) Acenaphthene	14.13	154	7230	0.102	ng	89
17) Fluorene	15.14	166	14547	0.138	ng	# 73
22) Phenanthrene	16.87	178	210375	1.445	ng	100
23) Anthracene	16.95	178	47638	0.358	ng	98
25) Fluoranthene	18.90	202	398243	2.139	ng	99
27) Pyrene	19.26	202	434134	2.654	ng	97
29) Benzo(a)anthracene	21.02	228	187871m	1.101	ng	
30) Chrysene	21.08	228	253930	1.532	ng	95
31) Indeno(1,2,3-cd)pyrene	25.24	276	134148	0.734	ng	99
33) Benzo(b)fluoranthene	22.54	252	291509	1.646	ng	98
34) Benzo(k)fluoranthene	22.58	252	78777m	0.450	ng	
35) Benzo(a)pyrene	23.07	252	195932	1.220	ng	99
36) Dibenzo(a,h)anthracene	25.25	278	36887	0.230	ng	# 81
37) Benzo(g,h,i)perylene	25.87	276	137593	0.835	ng	97

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

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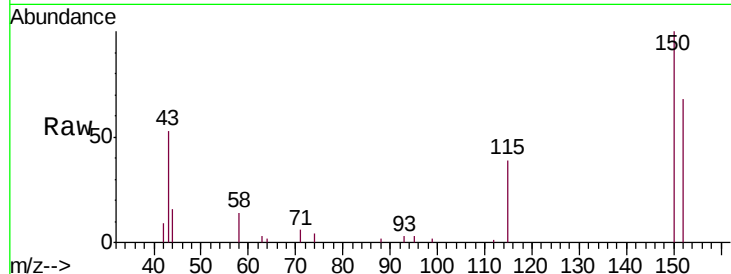


#1

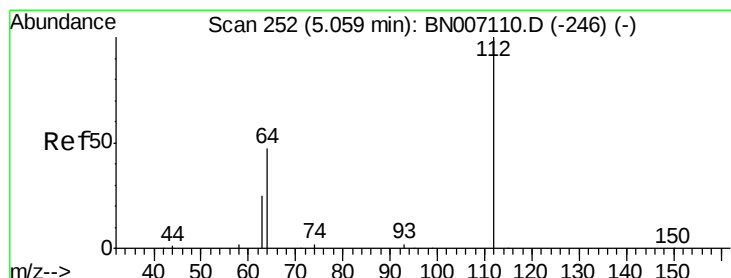
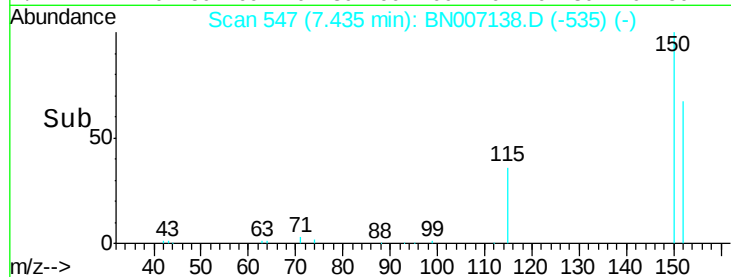
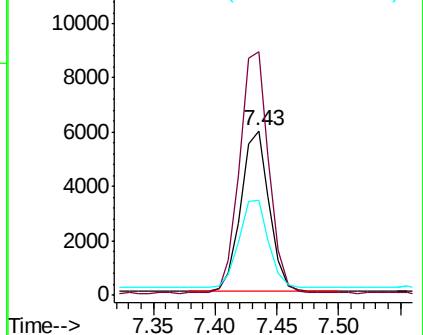
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007138.D
Acq: 13 Aug 2019 18:55

Instrument :
BNA_N
ClientSampleId :
EXT-009-SW145-080119-1

Tgt Ion:152 Resp: 9424
Ion Ratio Lower Upper
152 100
150 147.8 121.7 182.5
115 57.4 46.2 69.4



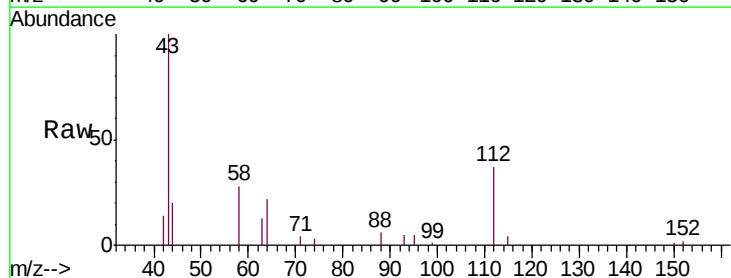
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



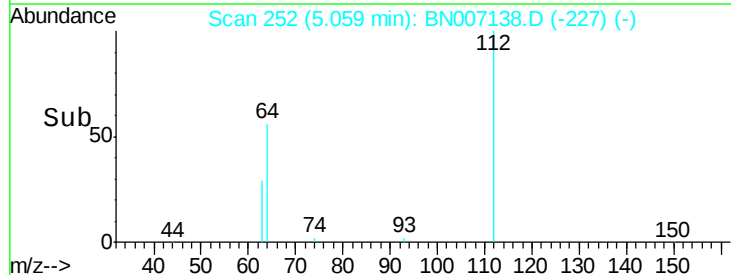
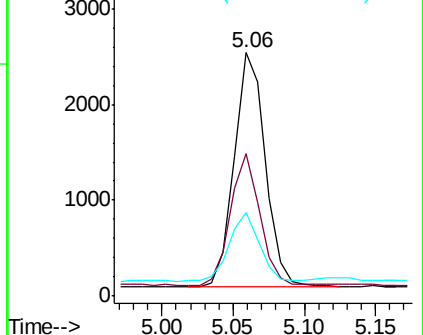
#3

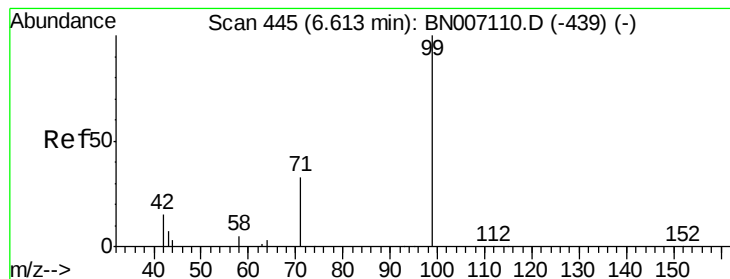
2-Fluorophenol
Concen: 0.164 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007138.D
Acq: 13 Aug 2019 18:55

Tgt Ion:112 Resp: 3716
Ion Ratio Lower Upper
112 100
64 54.1 42.6 63.8
63 28.7 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: 0.180 ng

RT: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

Instrument :

BNA_N

ClientSampleId :

EXT-009-SW145-080119-1

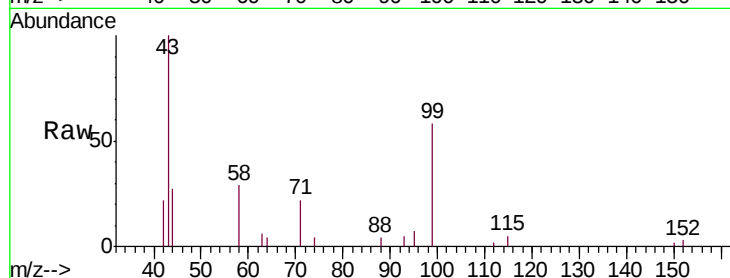
Tgt Ion: 99 Resp: 5035

Ion Ratio Lower Upper

99 100

42 24.4 15.8 23.6#

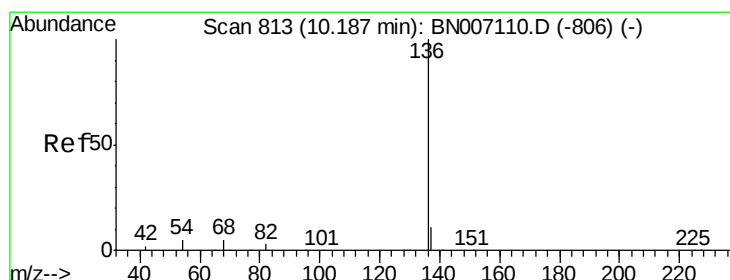
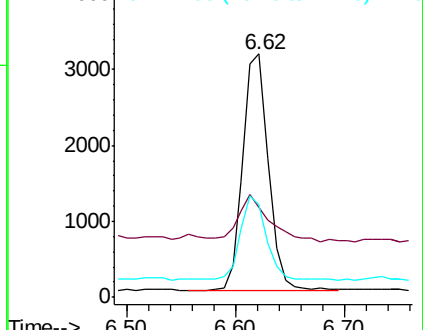
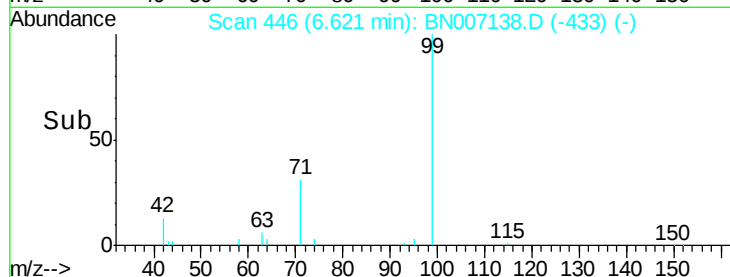
71 35.1 27.0 40.4



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: BN007138.D

Acq: 13 Aug 2019 18:55

Tgt Ion: 136 Resp: 36892

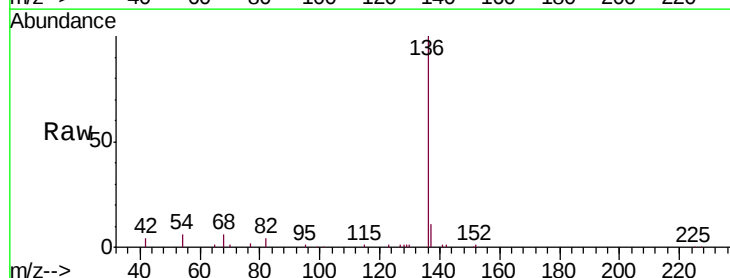
Ion Ratio Lower Upper

136 100

137 11.2 9.4 14.0

54 5.9 6.6 9.8#

68 5.9 6.0 9.0#

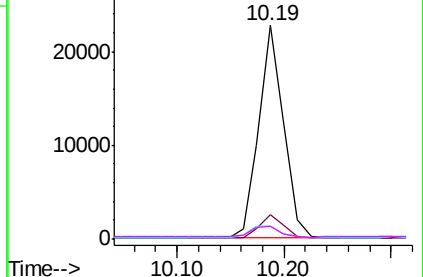
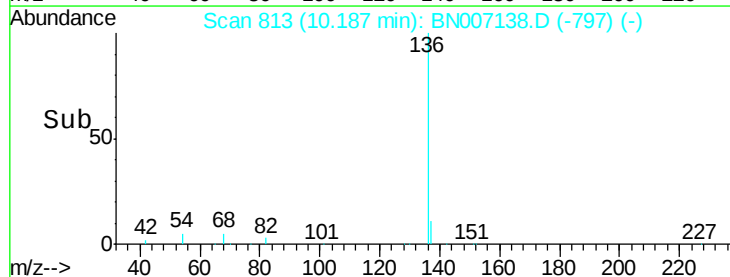


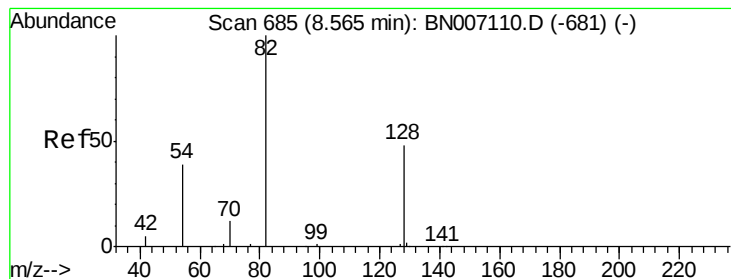
Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

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: 0.139 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

Instrument :

BNA_N

ClientSampleId :

EXT-009-SW145-080119-1

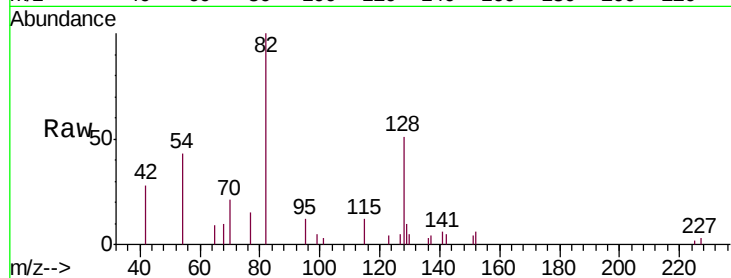
Tgt Ion: 82 Resp: 4138

Ion Ratio Lower Upper

82 100

128 50.9 34.6 51.8

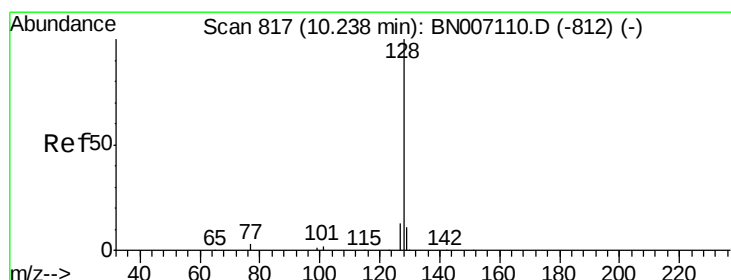
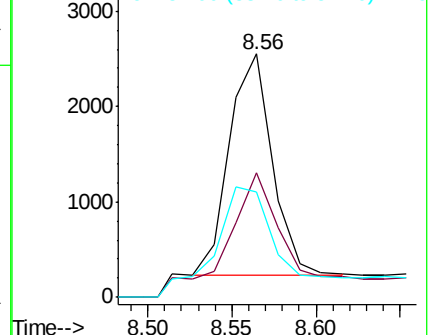
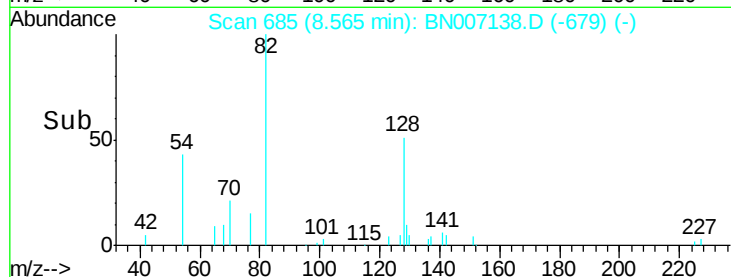
54 43.4 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007138.D (-679) (-)

Ion 128.00 (127.70 to 128.70): BN007138.D (-679) (-)

Ion 54.00 (53.70 to 54.70): BN007138.D (-679) (-)



#8

Naphthalene

Concen: 0.070 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

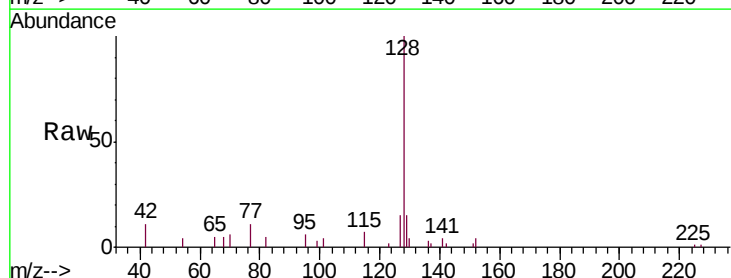
Tgt Ion: 128 Resp: 7266

Ion Ratio Lower Upper

128 100

129 14.6 9.4 14.2#

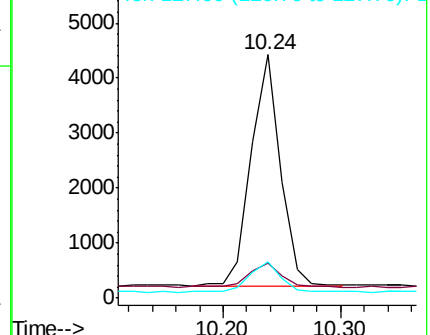
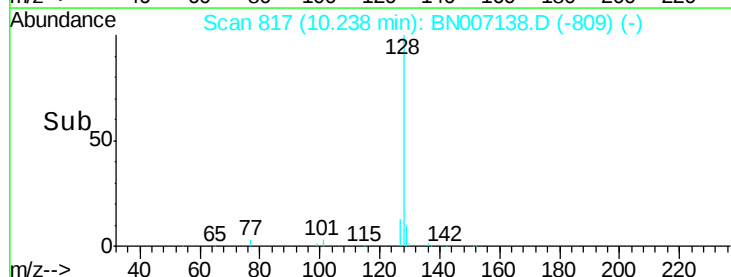
127 15.0 11.0 16.6



Abundance Ion 128.00 (127.70 to 128.70): BN007138.D (-809) (-)

Ion 129.00 (128.70 to 129.70): BN007138.D (-809) (-)

Ion 127.00 (126.70 to 127.70): BN007138.D (-809) (-)





#10

2-Methylnaphthalene-d10

Concen: 0.134 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

Instrument :

BNA_N

ClientSampleId :

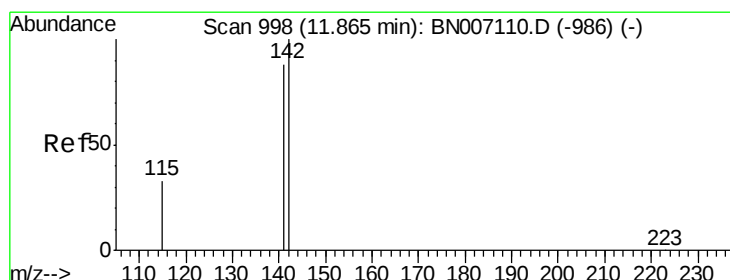
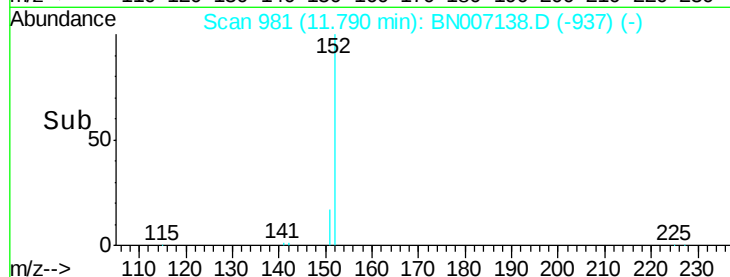
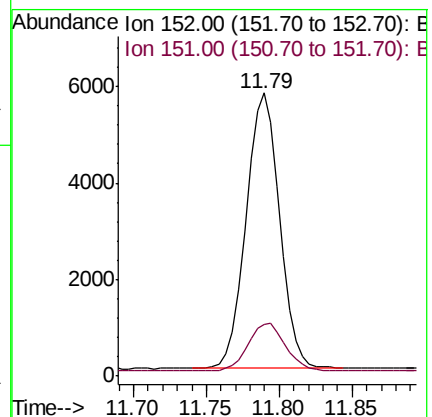
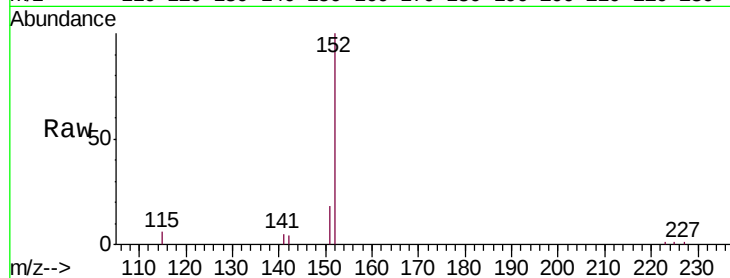
EXT-009-SW145-080119-1

Tgt Ion:152 Resp: 9201

Ion Ratio Lower Upper

152 100

151 19.5 15.5 23.3



#11

2-Methylnaphthalene

Concen: 0.084 ng

RT: 11.86 min Scan# 997

Delta R.T. -0.01 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

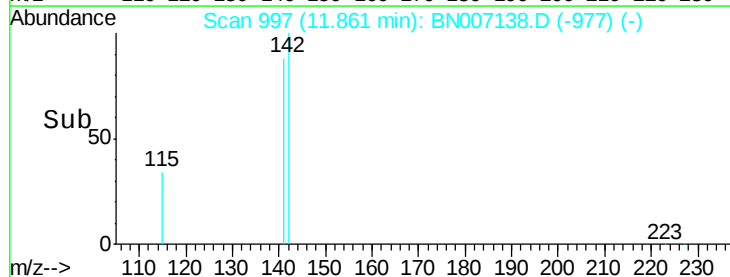
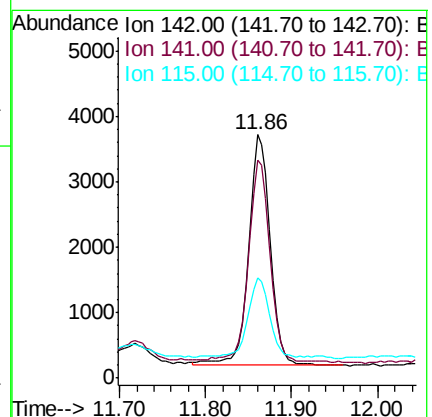
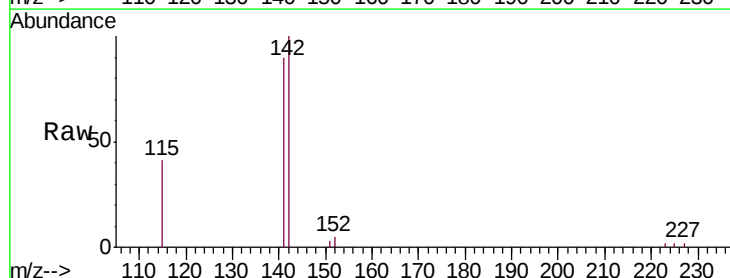
Tgt Ion:142 Resp: 6131

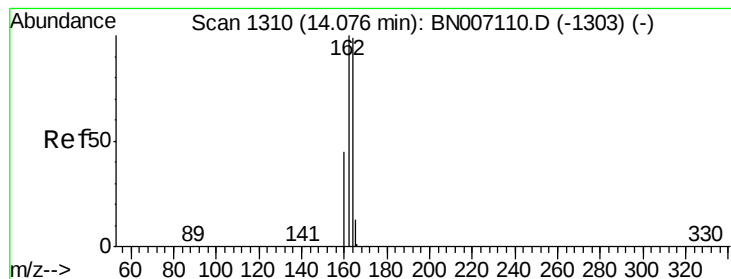
Ion Ratio Lower Upper

142 100

141 89.7 69.0 103.6

115 40.9 27.1 40.7#





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

Instrument :

BNA_N

ClientSampleId :

EXT-009-SW145-080119-1

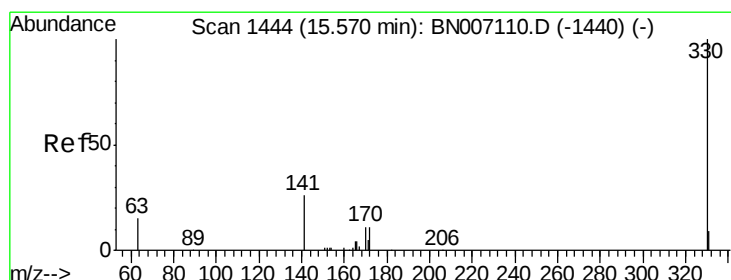
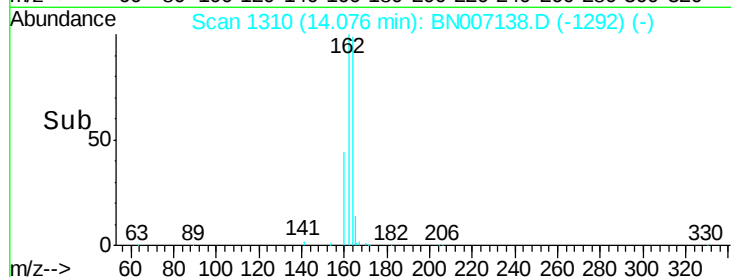
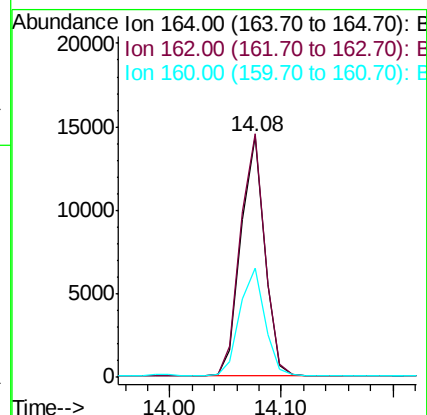
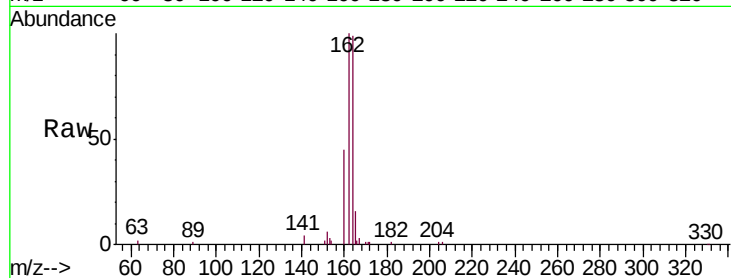
Tgt Ion:164 Resp: 21089

Ion Ratio Lower Upper

164 100

162 101.2 82.2 123.4

160 45.5 38.3 57.5



#13

2,4,6-Tribromophenol

Concen: 0.135 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

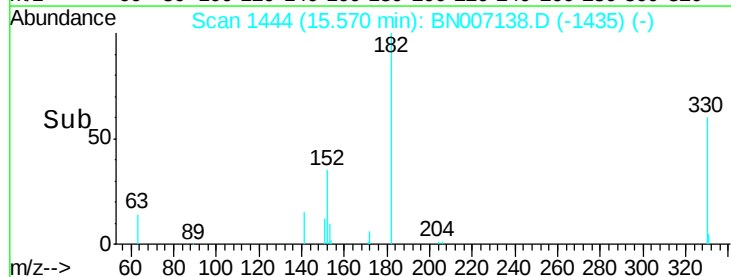
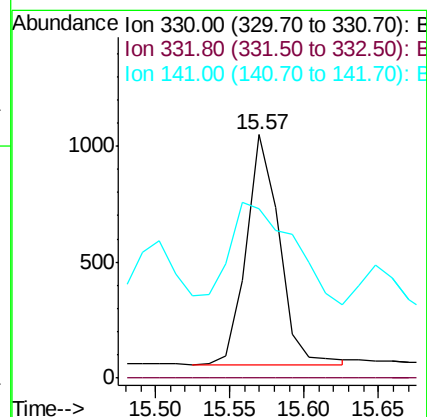
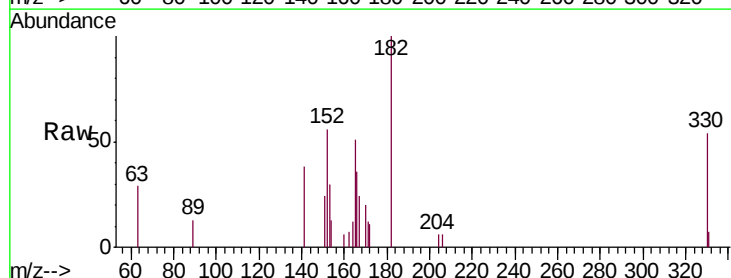
Tgt Ion:330 Resp: 1533

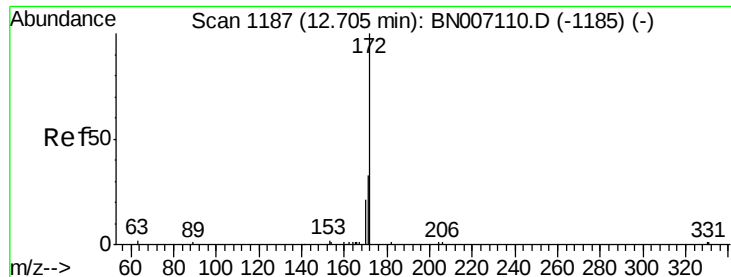
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 83.6 33.6 50.4#

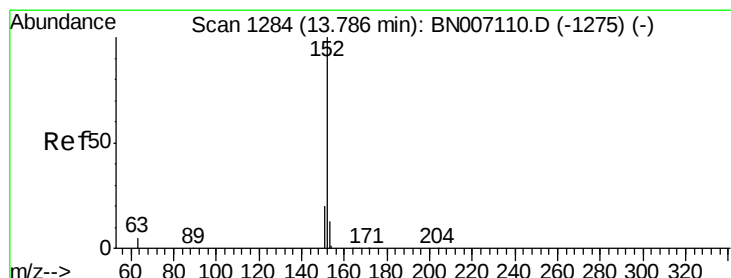
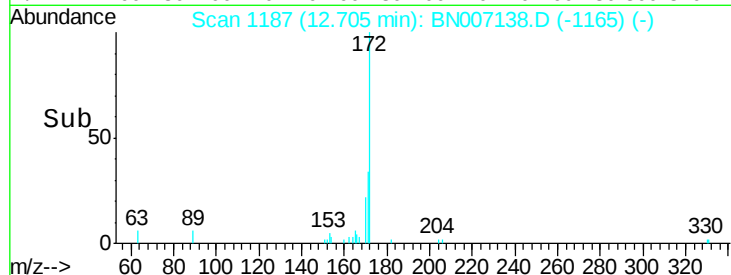
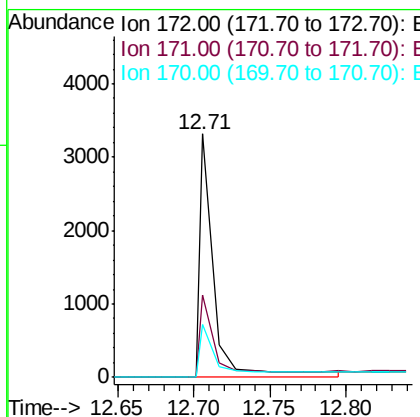
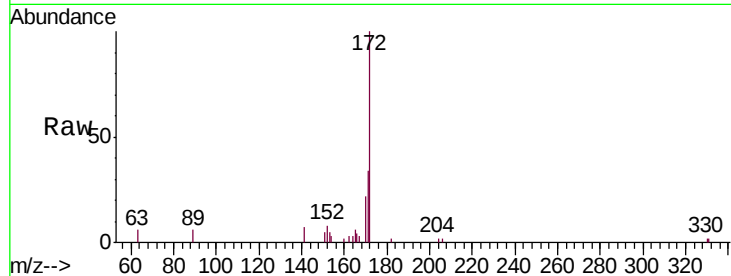




#14
2-Fluorobiphenyl
Concen: 0.083 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007138.D
Acq: 13 Aug 2019 18:55

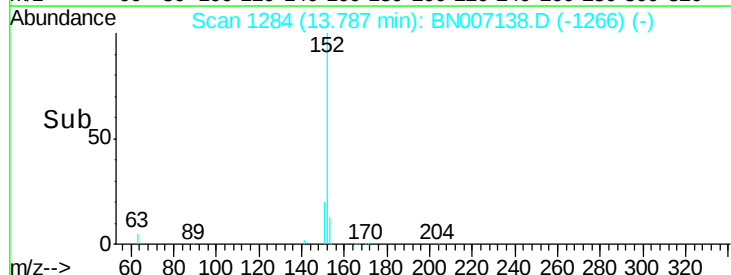
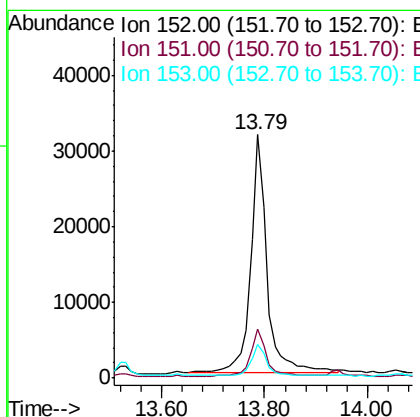
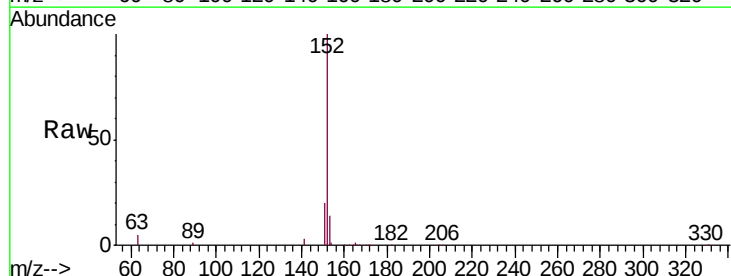
Instrument :
BNA_N
ClientSampleId :
EXT-009-SW145-080119-1

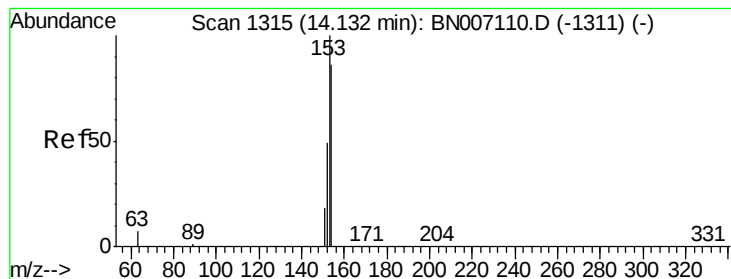
Tgt Ion:172 Resp: 2548
Ion Ratio Lower Upper
172 100
171 33.8 26.3 39.5
170 21.6 17.0 25.4



#15
Acenaphthylene
Concen: 0.628 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007138.D
Acq: 13 Aug 2019 18:55

Tgt Ion:152 Resp: 69212
Ion Ratio Lower Upper
152 100
151 19.3 15.8 23.6
153 12.5 10.4 15.6





#16

Acenaphthene

Concen: 0.102 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

Instrument :

BNA_N

ClientSampleId :

EXT-009-SW145-080119-1

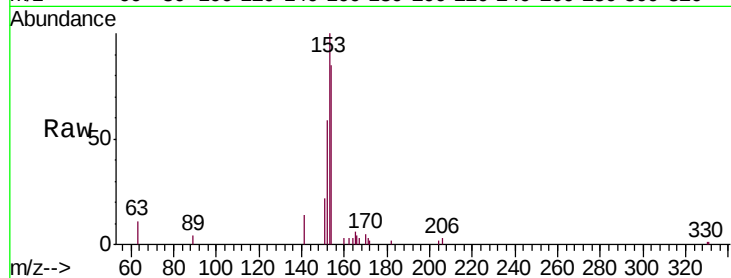
Tgt Ion:154 Resp: 7230

Ion Ratio Lower Upper

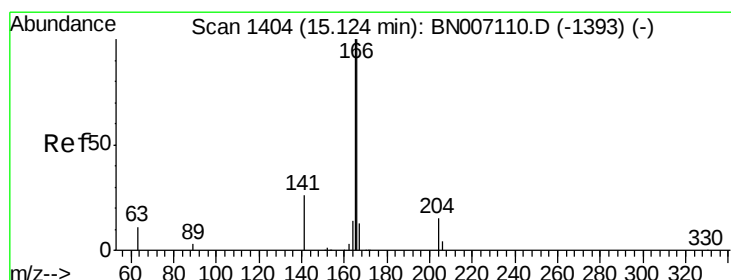
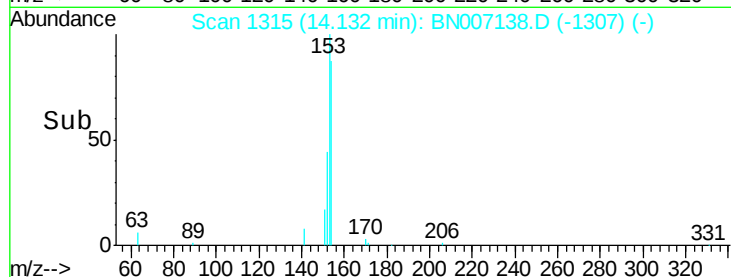
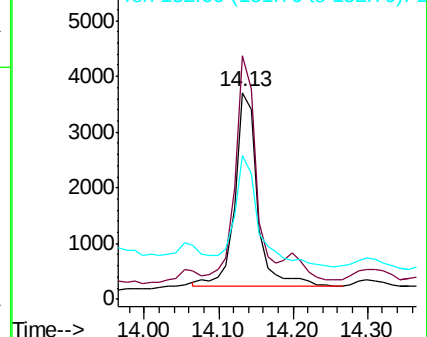
154 100

153 100.0 89.5 134.3

152 62.8 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: 0.138 ng

RT: 15.14 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

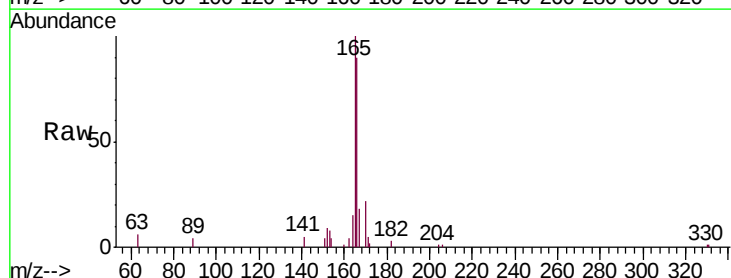
Tgt Ion:166 Resp: 14547

Ion Ratio Lower Upper

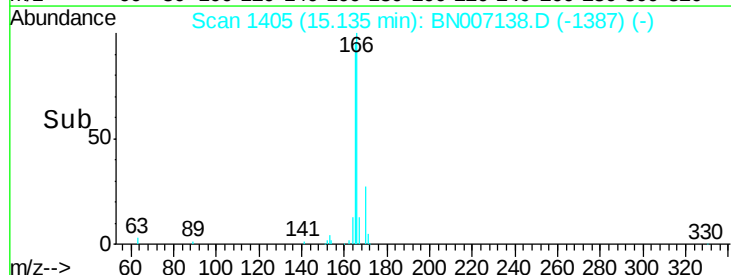
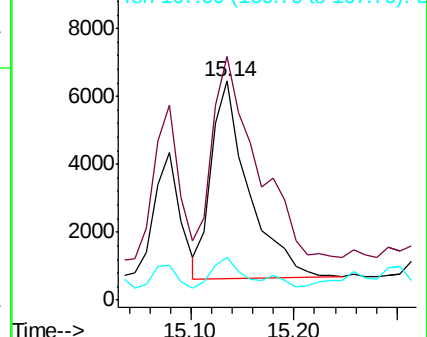
166 100

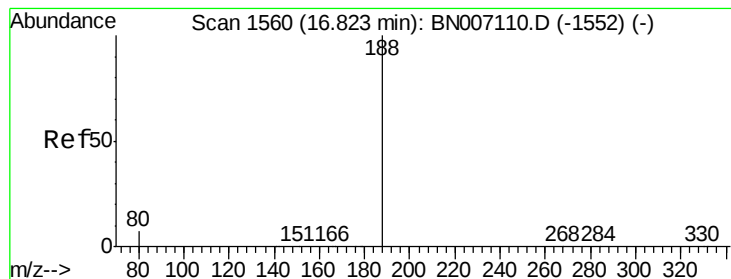
165 126.7 77.9 116.9#

167 15.7 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: BN007138.D

Acq: 13 Aug 2019 18:55

Instrument :

BNA_N

ClientSampleId :

EXT-009-SW145-080119-1

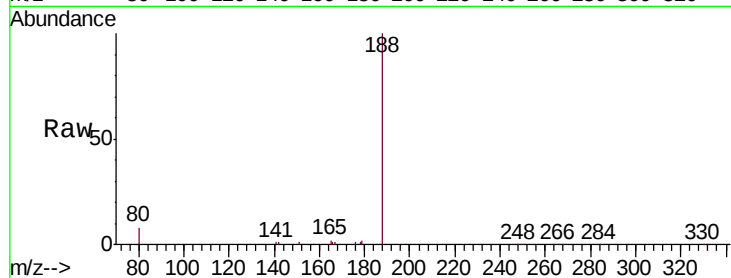
Tgt Ion:188 Resp: 48568

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

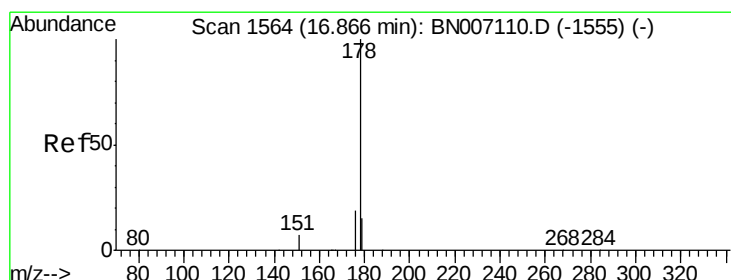
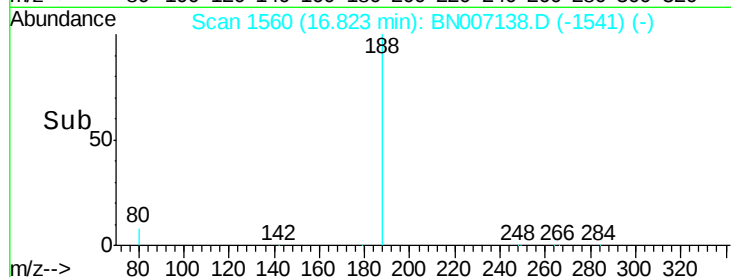
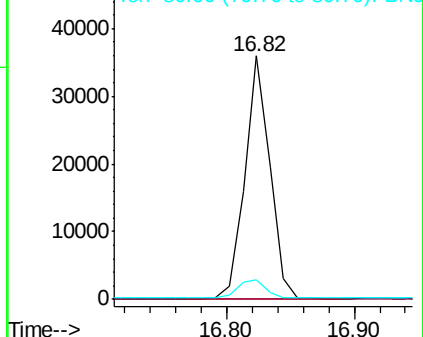
80 8.2 7.8 11.6



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: 1.445 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

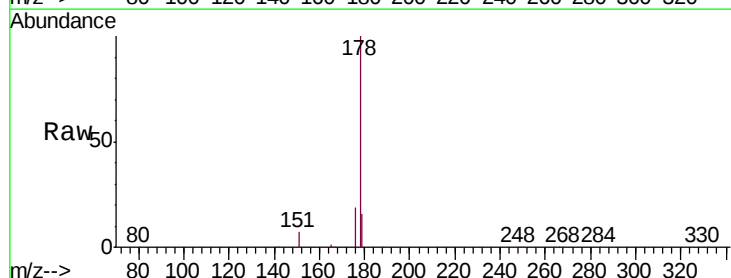
Tgt Ion:178 Resp: 210375

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

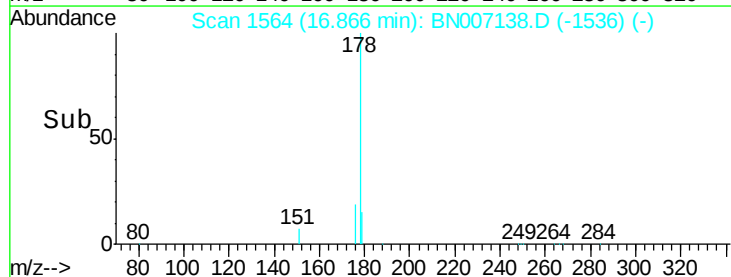
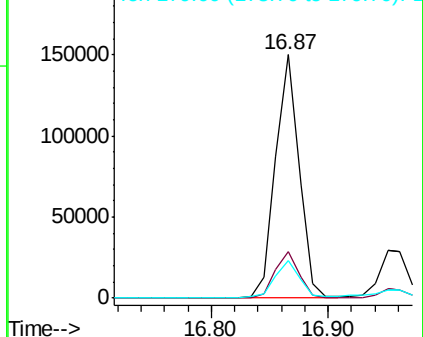
179 15.7 12.3 18.5



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: 0.358 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

Instrument :

BNA_N

ClientSampleId :

EXT-009-SW145-080119-1

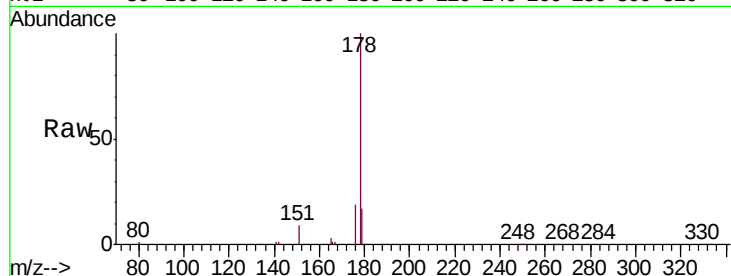
Tgt Ion:178 Resp: 47638

Ion Ratio Lower Upper

178 100

176 18.3 14.6 21.8

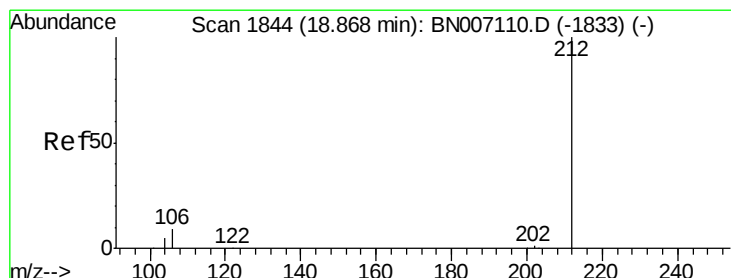
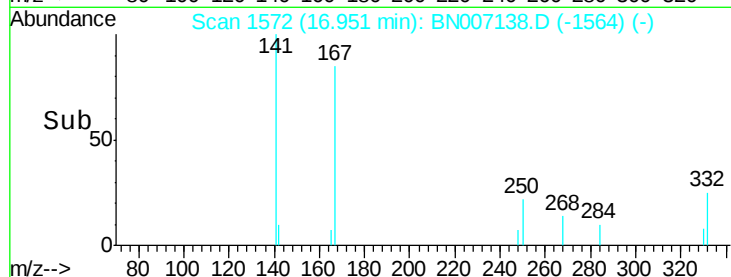
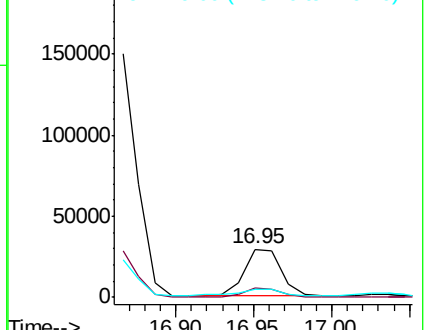
179 17.7 12.5 18.7



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: 0.126 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

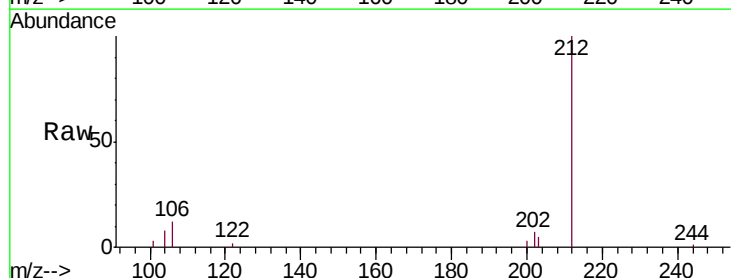
Tgt Ion:212 Resp: 21753

Ion Ratio Lower Upper

212 100

106 10.3 8.2 12.2

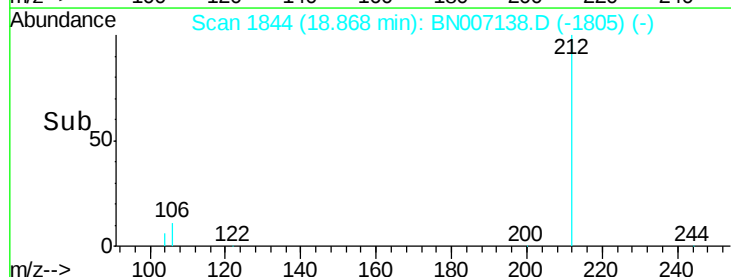
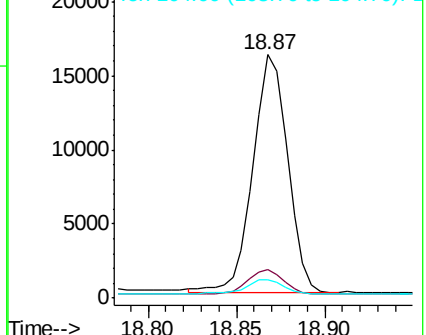
104 7.0 4.5 6.7#

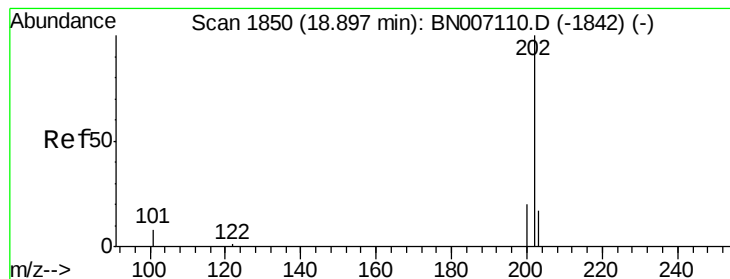


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 2.139 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

Instrument :

BNA_N

ClientSampleId :

EXT-009-SW145-080119-1

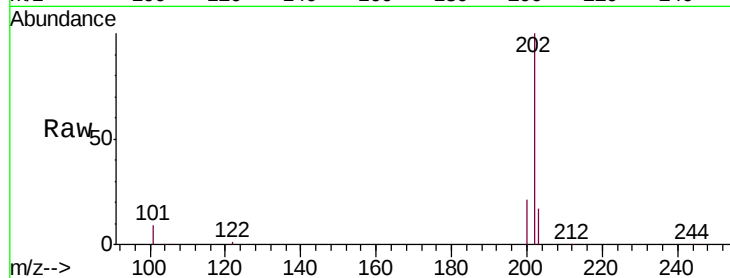
Tgt Ion: 202 Resp: 398243

Ion Ratio Lower Upper

202 100

101 9.0 7.0 10.4

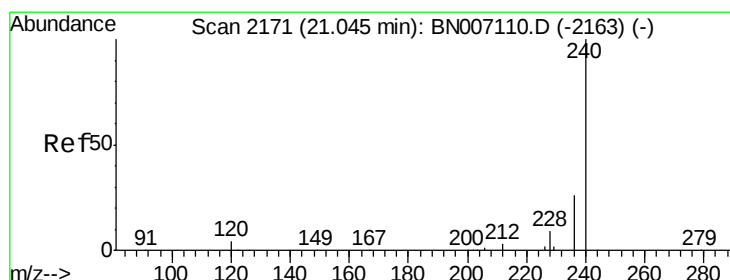
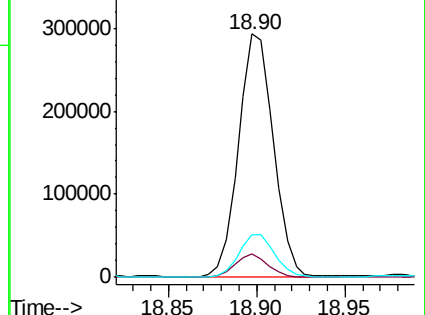
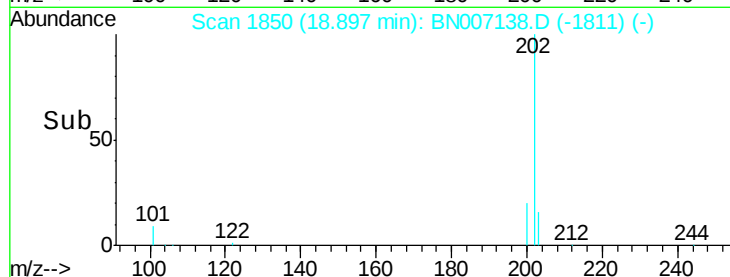
203 17.5 13.8 20.8



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: BN007138.D

Acq: 13 Aug 2019 18:55

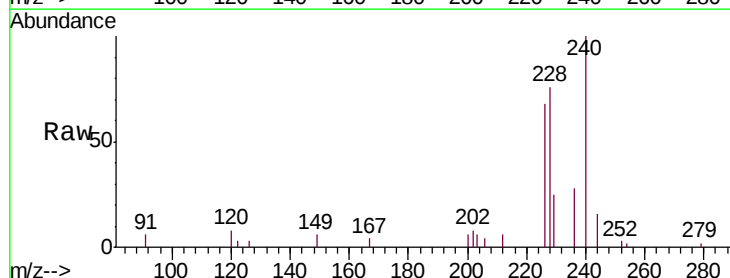
Tgt Ion: 240 Resp: 46642

Ion Ratio Lower Upper

240 100

120 8.0 4.0 6.0#

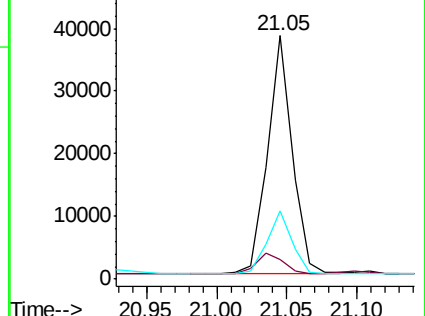
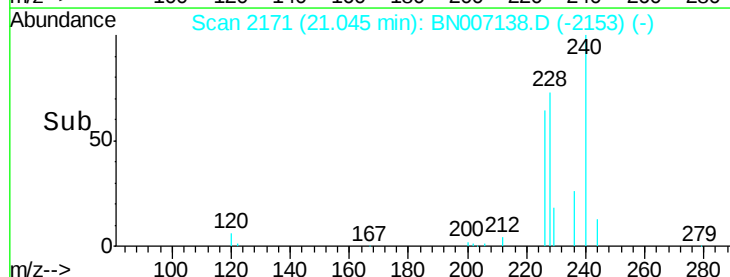
236 28.3 21.3 31.9

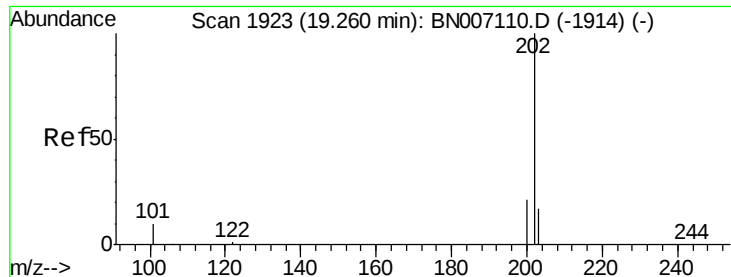


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

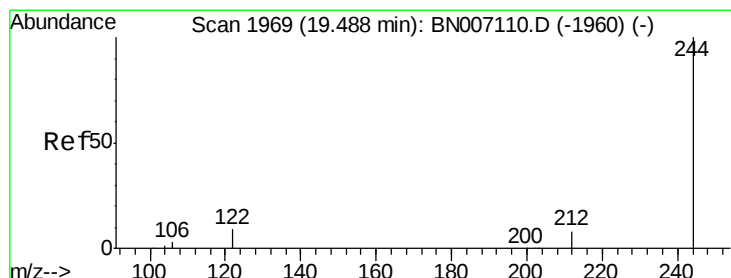
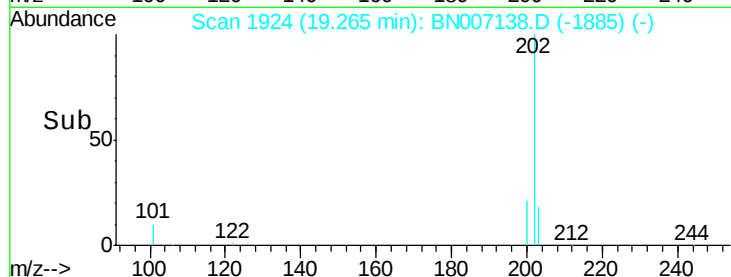
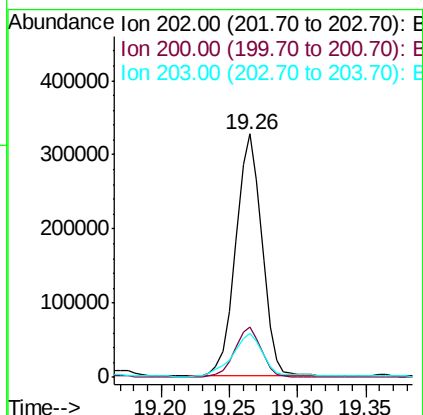
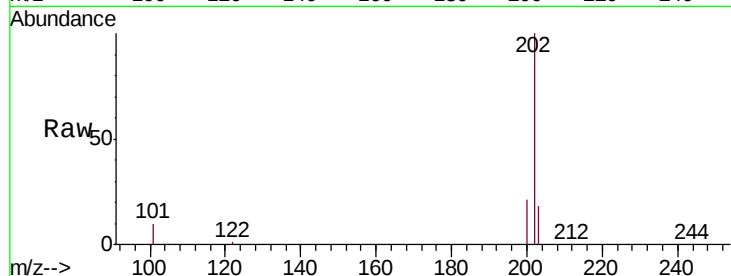




#27
 Pyrene
 Concen: 2.654 ng
 RT: 19.26 min Scan# 1924
 Delta R.T. -0.01 min
 Lab File: BN007138.D
 Acq: 13 Aug 2019 18:55

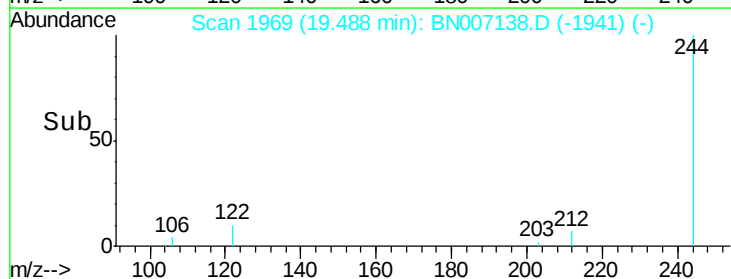
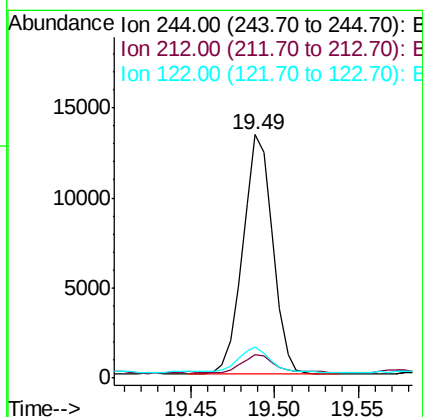
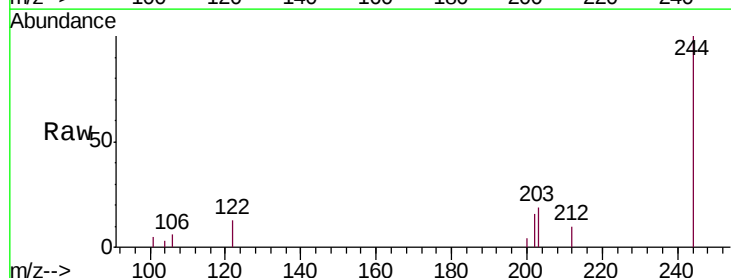
Instrument :
 BNA_N
 ClientSampleId :
 EXT-009-SW145-080119-1

Tgt Ion: 202 Resp: 434134
 Ion Ratio Lower Upper
 202 100
 200 20.9 16.6 24.8
 203 20.4 14.0 21.0



#28
 Terphenyl-d14
 Concen: 0.130 ng
 RT: 19.49 min Scan# 1969
 Delta R.T. -0.01 min
 Lab File: BN007138.D
 Acq: 13 Aug 2019 18:55

Tgt Ion: 244 Resp: 16526
 Ion Ratio Lower Upper
 244 100
 212 9.8 6.2 9.2#
 122 12.7 7.4 11.2#





#29

Benzo(a)anthracene

Concen: 1.101 ng m

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

Instrument :

BNA_N

ClientSampleId :

EXT-009-SW145-080119-1

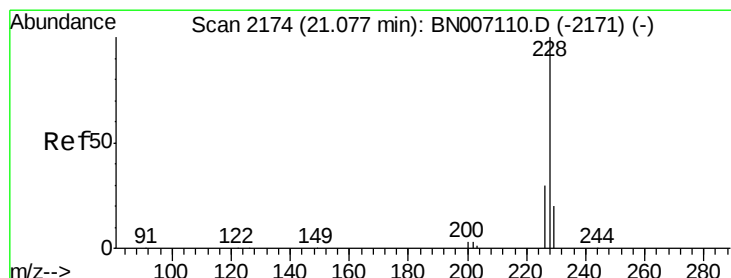
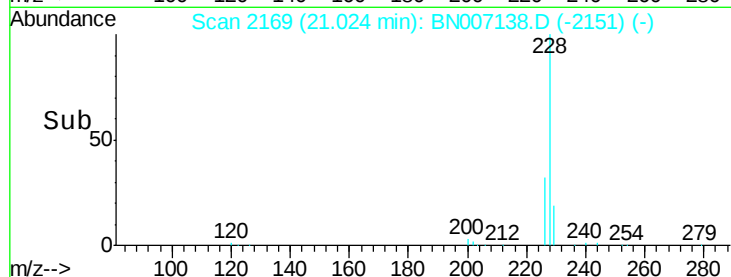
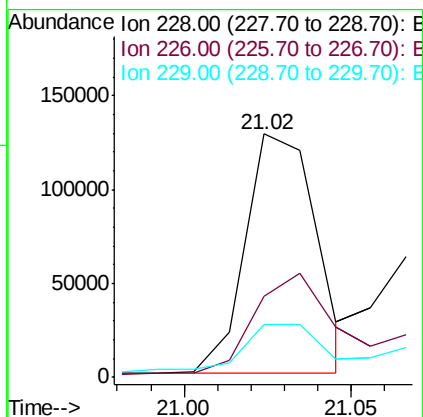
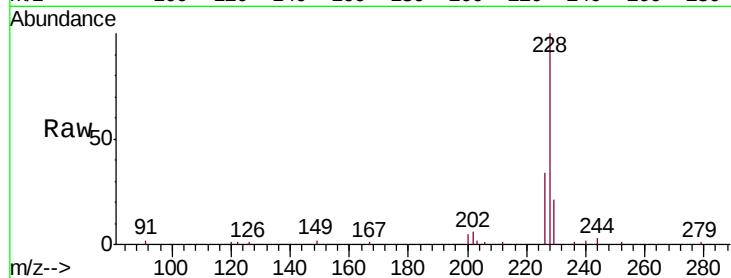
Tgt Ion:228 Resp: 187871

Ion Ratio Lower Upper

228 100

226 33.5 21.8 32.6#

229 21.5 15.6 23.4



#30

Chrysene

Concen: 1.532 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

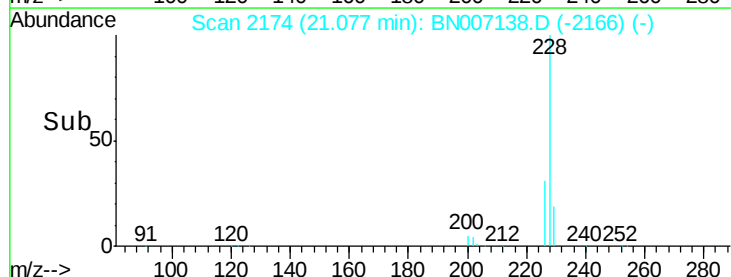
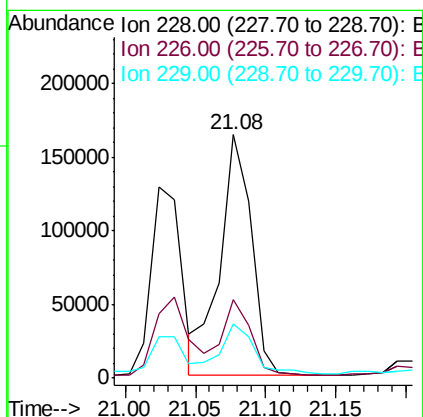
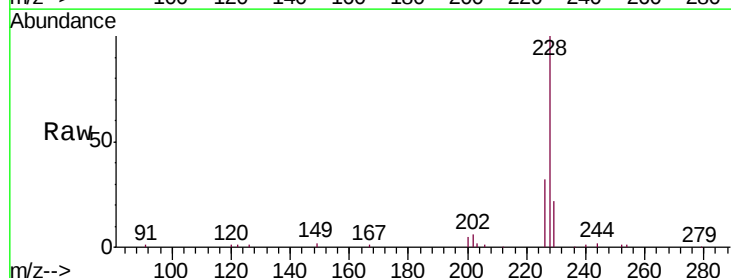
Tgt Ion:228 Resp: 253930

Ion Ratio Lower Upper

228 100

226 32.0 23.8 35.6

229 22.0 15.7 23.5





#31

Indeno(1,2,3-cd)pyrene

Concen: 0.734 ng

RT: 25.24 min Scan# 3126

Delta R.T. -0.02 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

Instrument :

BNA_N

ClientSampleId :

EXT-009-SW145-080119-1

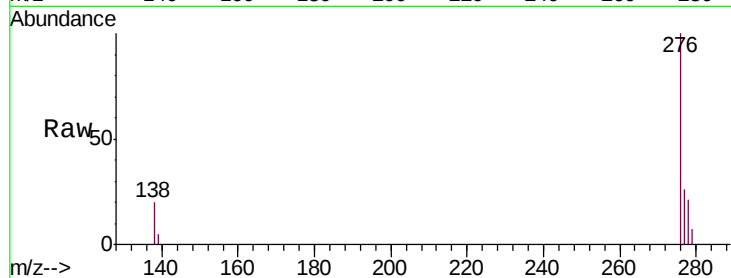
Tgt Ion:276 Resp: 134148

Ion Ratio Lower Upper

276 100

138 18.7 16.0 24.0

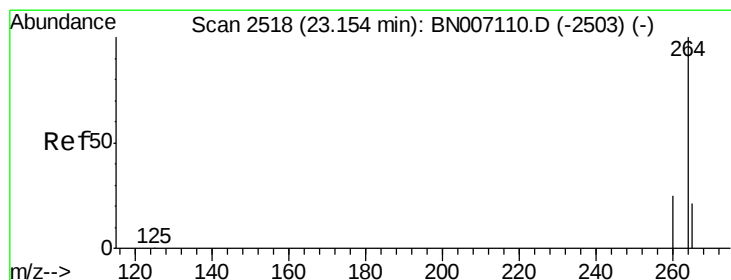
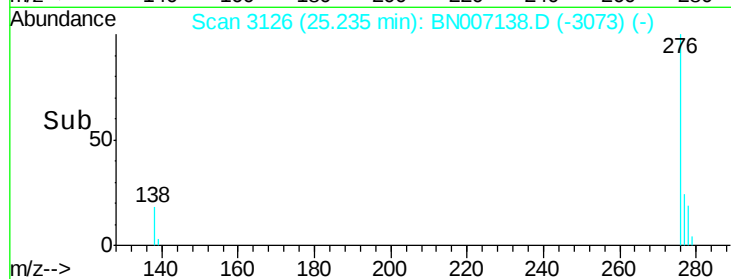
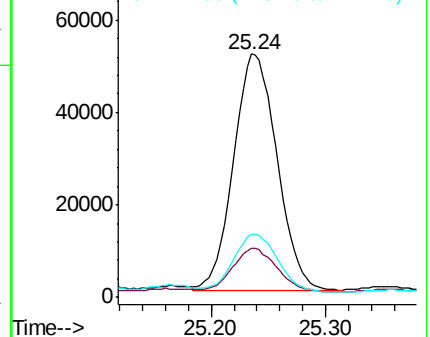
277 24.9 19.9 29.9



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: BN007138.D

Acq: 13 Aug 2019 18:55

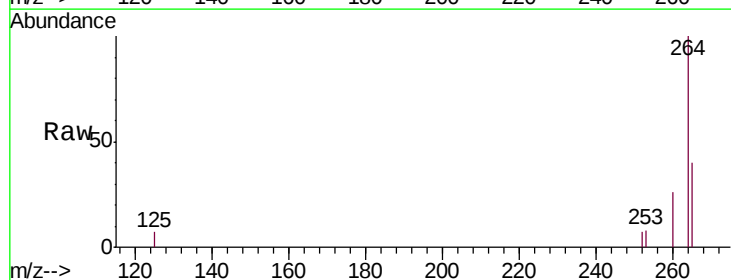
Tgt Ion:264 Resp: 51656

Ion Ratio Lower Upper

264 100

260 26.0 19.8 29.8

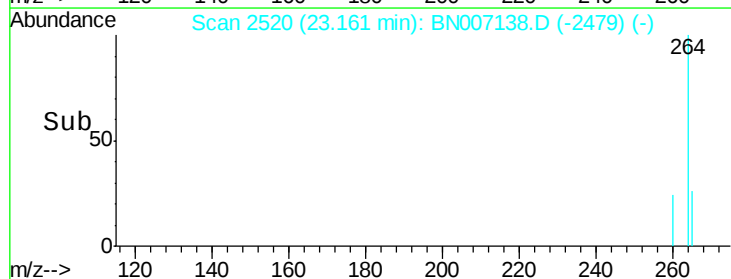
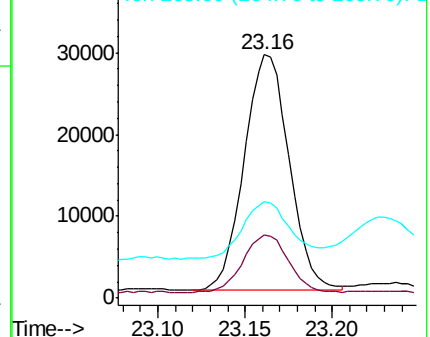
265 39.7 26.2 39.4#

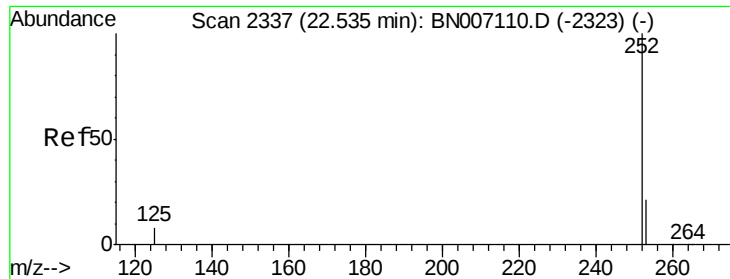


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 1.646 ng

RT: 22.54 min Scan# 2339

Delta R.T. -0.01 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

Instrument :

BNA_N

ClientSampleId :

EXT-009-SW145-080119-1

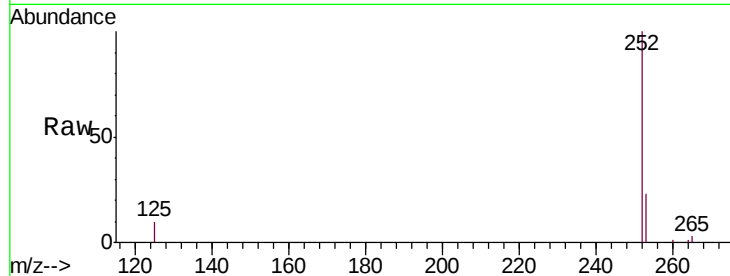
Tgt Ion:252 Resp: 291509

Ion Ratio Lower Upper

252 100

253 23.5 18.2 27.2

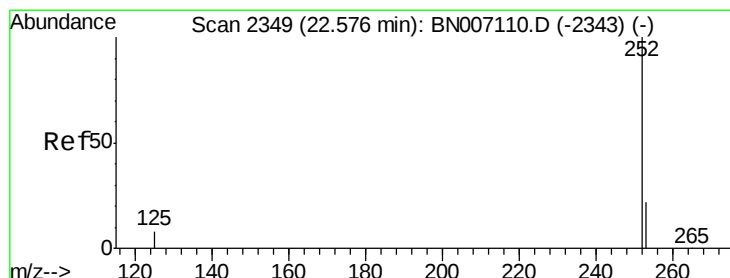
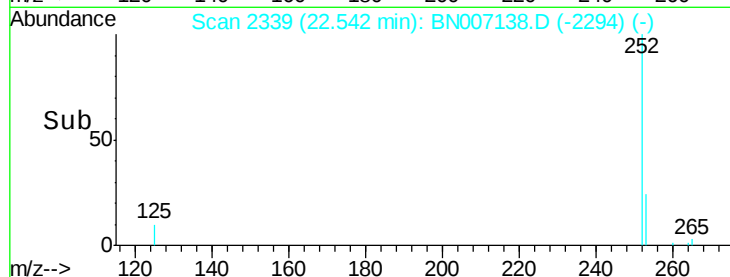
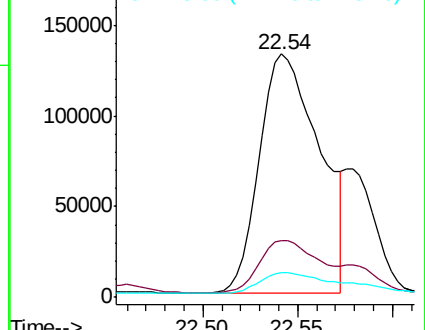
125 10.0 7.4 11.0



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



#34

Benzo(k)fluoranthene

Concen: 0.450 ng m

RT: 22.58 min Scan# 2350

Delta R.T. -0.01 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

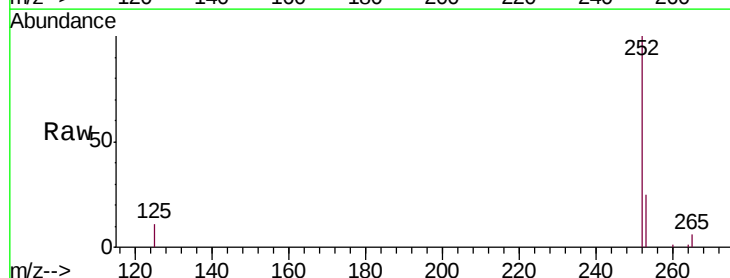
Tgt Ion:252 Resp: 78777

Ion Ratio Lower Upper

252 100

253 25.1 18.1 27.1

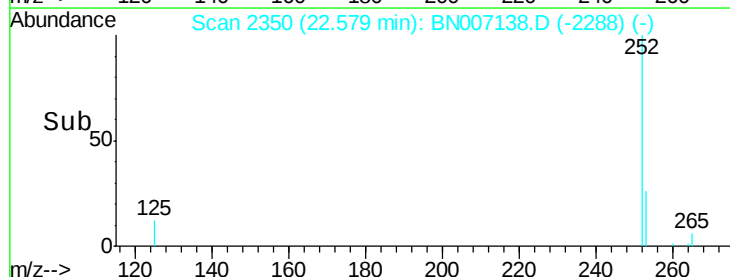
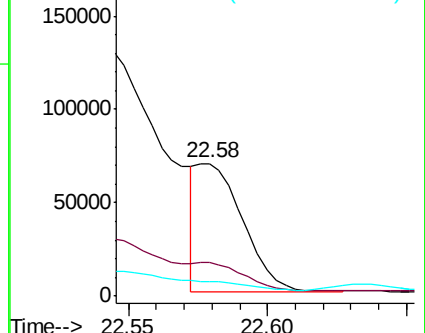
125 11.2 7.4 11.0#



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: 1.220 ng

RT: 23.07 min Scan# 2494

Delta R.T. -0.01 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

Instrument :

BNA_N

ClientSampleId :

EXT-009-SW145-080119-1

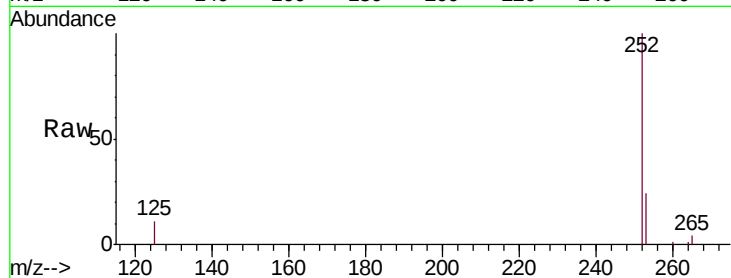
Tgt Ion:252 Resp: 195932

Ion Ratio Lower Upper

252 100

253 23.6 18.5 27.7

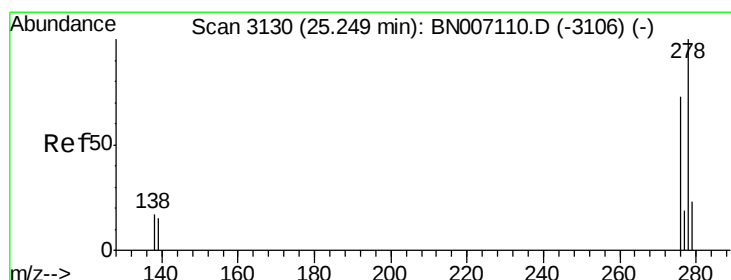
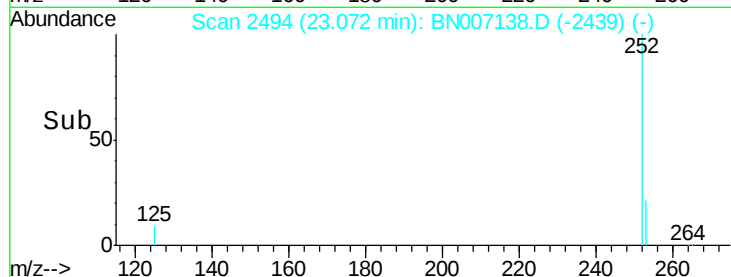
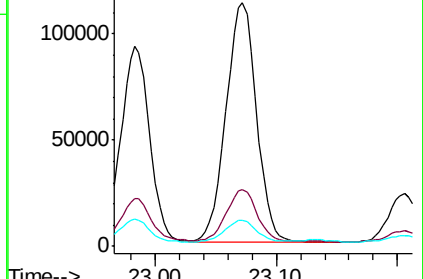
125 10.7 8.2 12.4



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: 0.230 ng

RT: 25.25 min Scan# 3130

Delta R.T. -0.02 min

Lab File: BN007138.D

Acq: 13 Aug 2019 18:55

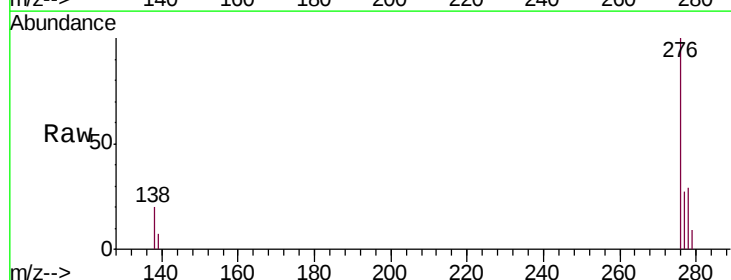
Tgt Ion:278 Resp: 36887

Ion Ratio Lower Upper

278 100

139 23.9 11.3 16.9#

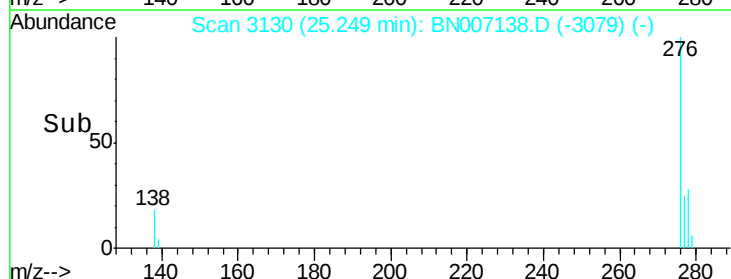
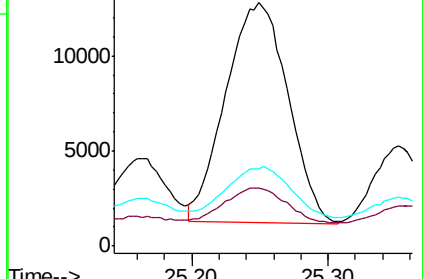
279 31.8 19.3 28.9#



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: 0.835 ng

RT: 25.87 min Scan# 3312

Delta R.T. -0.01 min

Lab File: BN007138.D

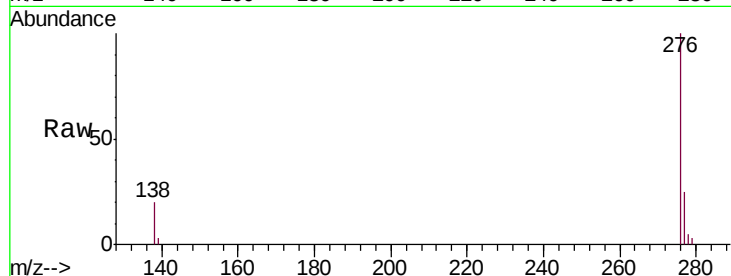
Acq: 13 Aug 2019 18:55

Instrument :

BNA_N

ClientSampleId :

EXT-009-SW145-080119-1



Tgt Ion: 276 Resp: 137593

Ion Ratio Lower Upper

276 100

277 25.3 19.8 29.8

138 20.4 14.6 22.0

