

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120519\
 Data File : BN008847.D
 Acq On : 05 Dec 2019 12:40
 Operator : JU
 Sample : K5609-12DL 25X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PT-BNA-SOILDL

Quant Time: Dec 05 13:11:49 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN120419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 04 15:42:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.56	152	3496	0.40	ng	-0.02
7) Naphthalene-d8	10.32	136	14451	0.40	ng	-0.01
13) Acenaphthene-d10	14.19	164	10095	0.40	ng	0.00
19) Phenanthrene-d10	16.94	188	22302	0.40	ng	0.00
27) Chrysene-d12	21.14	240	23592	0.40	ng	0.00
34) Perylene-d12	23.30	264	26608	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.19	112	42897	4.53	ng	-0.02
5) Phenol-d6	6.74	99	66131	5.13	ng	-0.02
8) Nitrobenzene-d5	8.69	82	41334	3.24	ng	-0.01
11) 2-Methylnaphthalene-d10	11.92	152	2	0.00	ng	0.00
14) 2,4,6-Tribromophenol	15.69	330	29400	5.35	ng	0.00
15) 2-Fluorobiphenyl	12.80	172	124644	3.29	ng	0.00
25) Fluoranthene-d10	18.98	212	42	0.00	ng	0.00
29) Terphenyl-d14	19.59	244	195545	3.60	ng	0.00

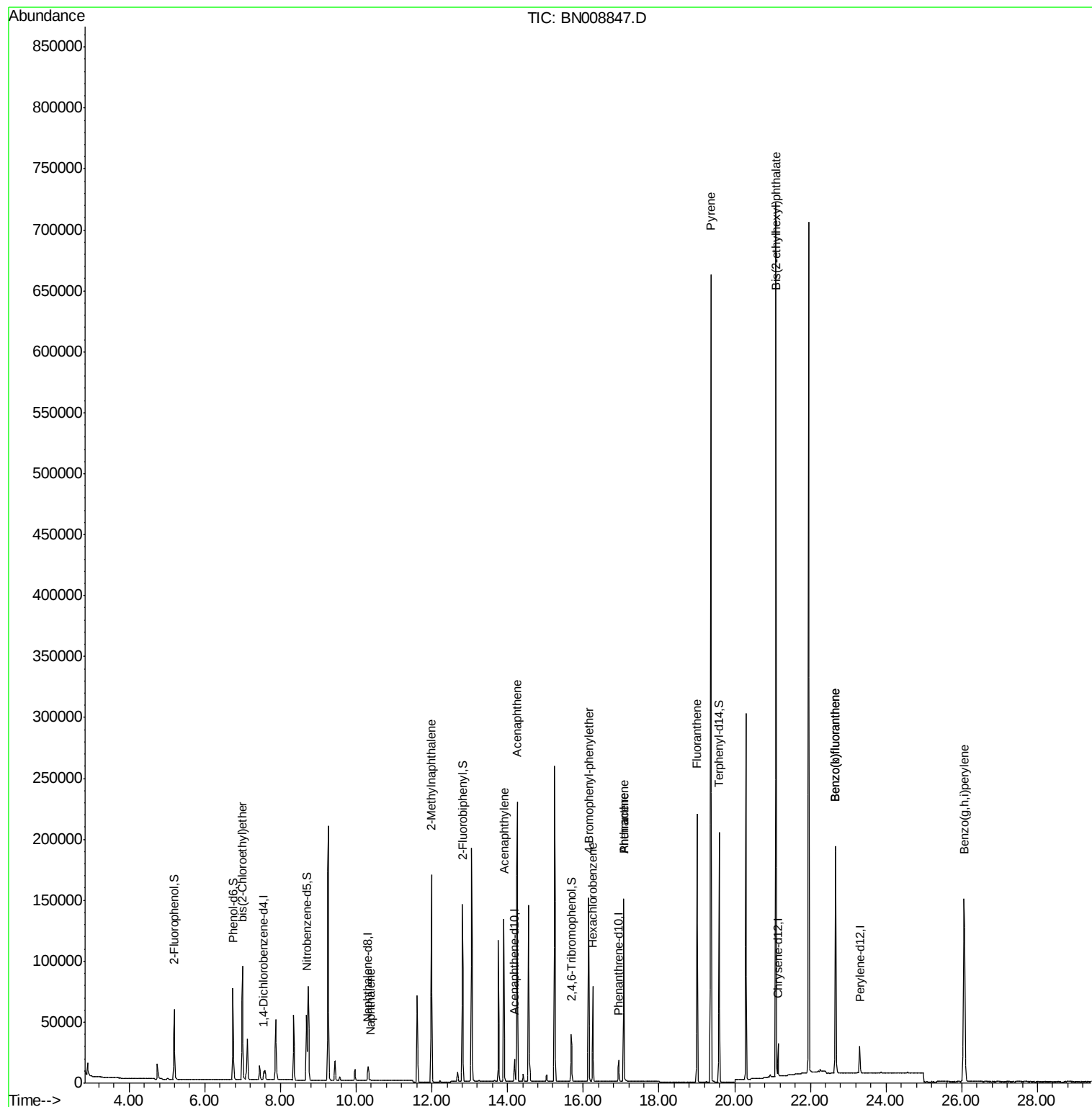
Target Compounds				Qvalue		
6) bis(2-Chloroethyl)ether	6.99	93	61427	5.297	ng	98
9) Naphthalene	10.37	128	815	0.021	ng	# 75
12) 2-Methylnaphthalene	11.99	142	119076	4.192	ng	99
16) Acenaphthylene	13.91	152	161542	3.431	ng	100
17) Acenaphthene	14.25	154	116779	3.909	ng	99
20) 4-Bromophenyl-phenylether	16.14	248	74991	5.743	ng	95
21) Hexachlorobenzene	16.26	284	67045	4.450	ng	100
23) Phenanthrene	17.07	178	154268	2.266	ng	99
24) Anthracene	17.07	178	154004	2.464	ng	100
26) Fluoranthene	19.01	202	193460	2.360	ng	99
28) Pyrene	19.37	202	575424	6.991	ng	100
32) Bis(2-ethylhexyl)phthalate	21.09	149	541538	9.527	ng	99
35) Benzo(b)fluoranthene	22.67	252	222262	2.515	ng	# 91
36) Benzo(k)fluoranthene	22.67	252	222262	2.560	ng	# 90
39) Benzo(a,h,i)perylene	26.06	276	285136	3.308	ng	97

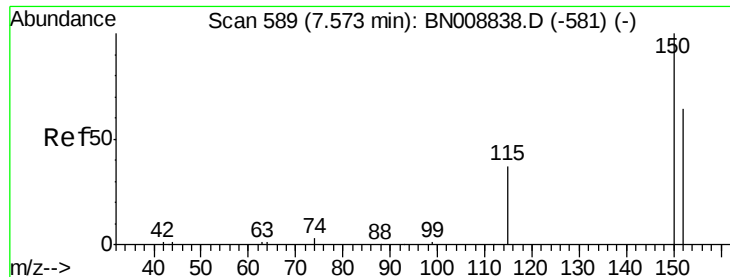
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120519\
Data File : BN008847.D
Acq On : 05 Dec 2019 12:40
Operator : JU
Sample : K5609-12DL 25X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-BNA-SOILD

Quant Time: Dec 05 13:11:49 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN120419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 04 15:42:09 2019
Response via : Initial Calibration



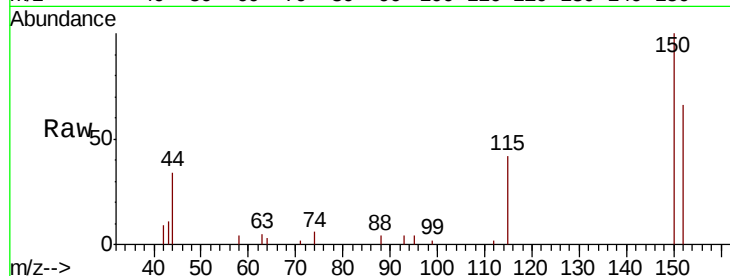


#1

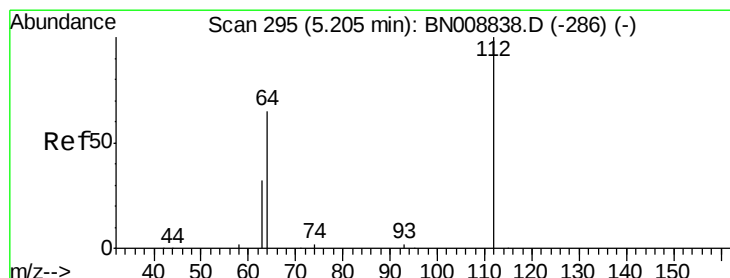
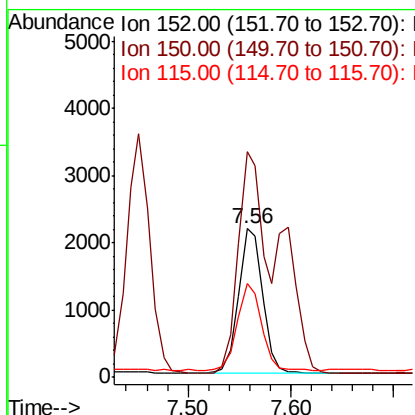
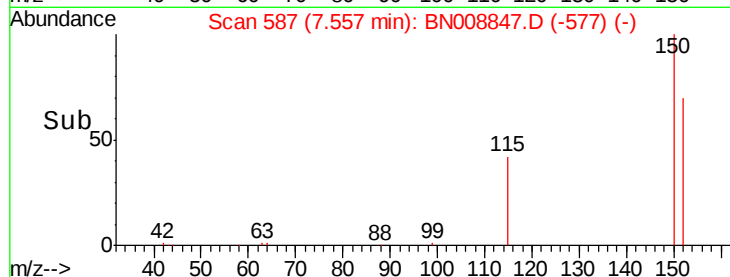
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.56 min Scan# 587
Delta R.T. -0.02 min
Lab File: BN008847.D
Acq: 05 Dec 2019 12:40

Instrument :
BNA_N
ClientSampleId :
PT-BNA-SOILD

Tot Ion:152 Resp: 3496
Ion Ratio Lower Upper
152 100
150 151.7 123.9 185.9
115 63.6 49.9 74.9



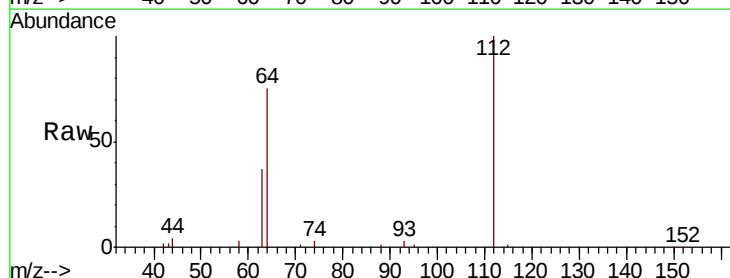
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



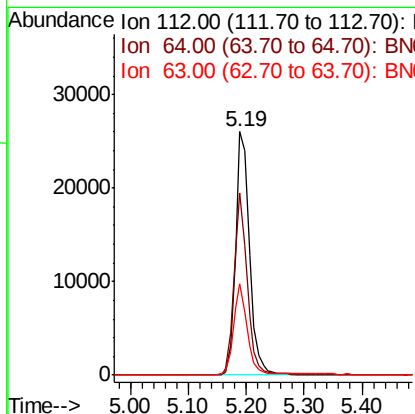
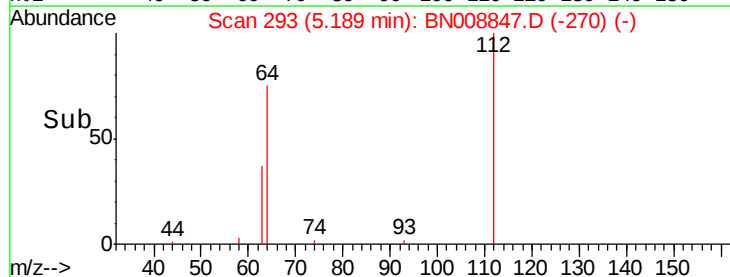
#4

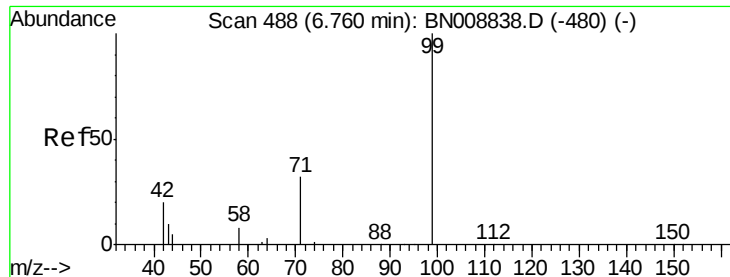
2-Fluorophenol
Concen: 4.533 ng
RT: 5.19 min Scan# 293
Delta R.T. -0.02 min
Lab File: BN008847.D
Acq: 05 Dec 2019 12:40

Tgt Ion:112 Resp: 42897
Ion Ratio Lower Upper
112 100
64 70.8 56.3 84.5
63 35.6 28.2 42.2



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





#5

Phenol-d6

Concen: 5.129 ng

RT: 6.74 min Scan# 486

Delta R.T. -0.02 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOILDL

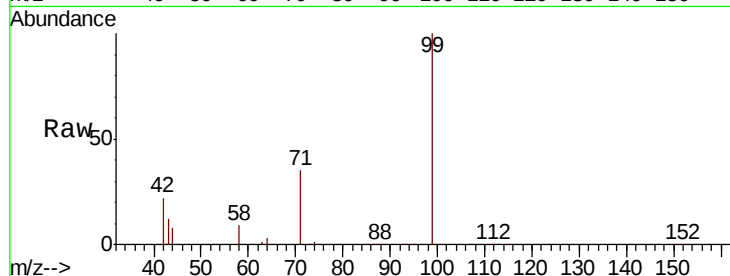
Tot Ion: 99 Resp: 66131

Ion Ratio Lower Upper

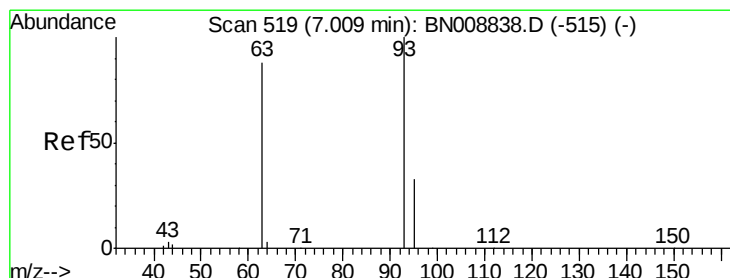
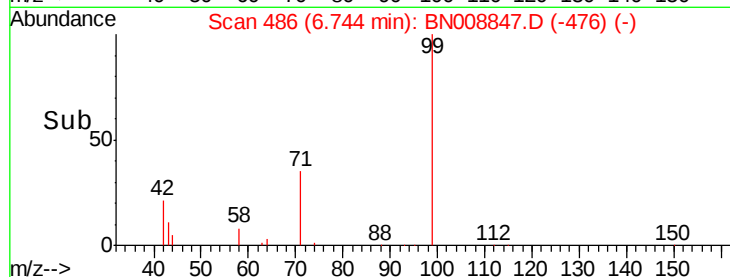
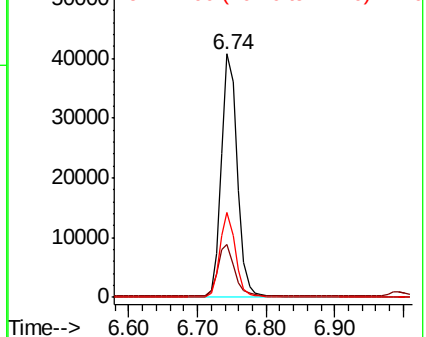
99 100

42 22.1 18.1 27.1

71 33.9 26.6 40.0



Abundance Ion 99.00 (98.70 to 99.70): BN0
Ion 42.00 (41.70 to 42.70): BN0
Ion 71.00 (70.70 to 71.70): BN0



#6

bis(2-Chloroethyl)ether

Concen: 5.297 ng

RT: 6.99 min Scan# 517

Delta R.T. -0.02 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

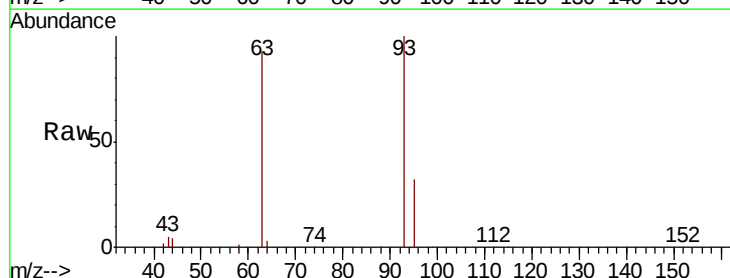
Tgt Ion: 93 Resp: 61427

Ion Ratio Lower Upper

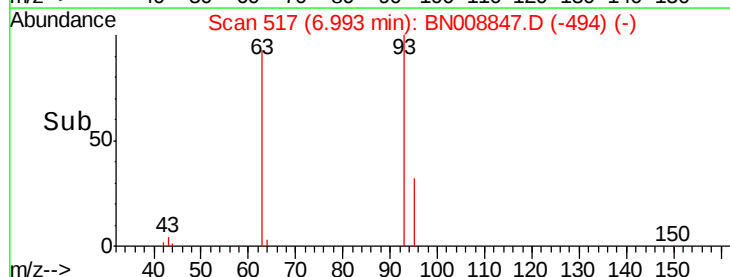
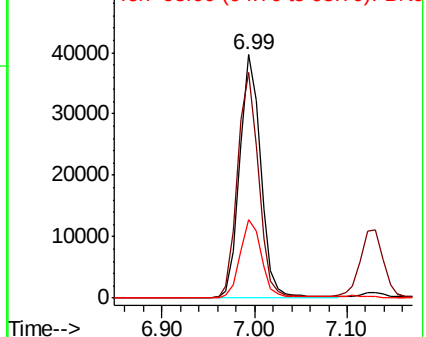
93 100

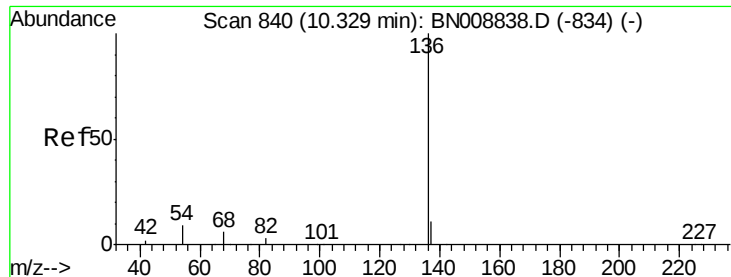
63 92.7 72.1 108.1

95 32.2 25.7 38.5



Abundance Ion 93.00 (92.70 to 93.70): BN0
Ion 63.00 (62.70 to 63.70): BN0
Ion 95.00 (94.70 to 95.70): BN0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.32 min Scan# 839

Delta R.T. -0.01 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOILDL

Tot Ion:136 Resp: 14451

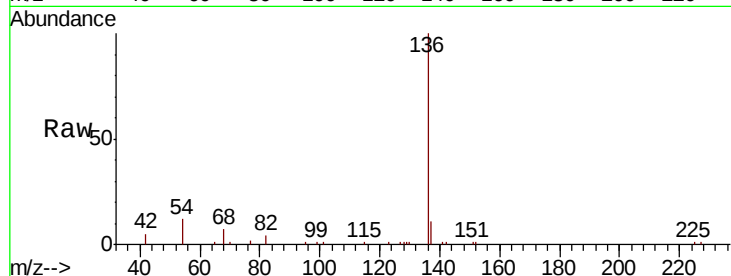
Ion Ratio Lower Upper

136 100

137 11.2 9.1 13.7

54 11.8 8.2 12.2

68 7.2 5.4 8.2

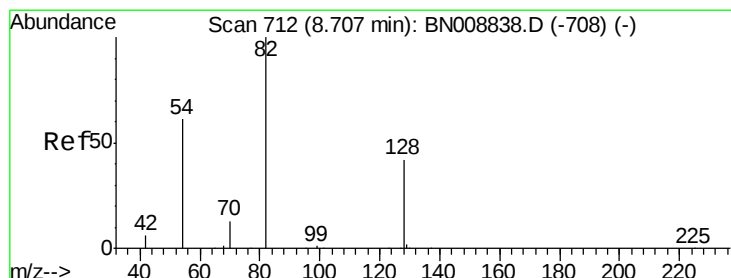
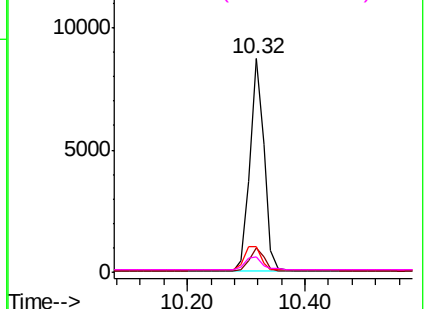
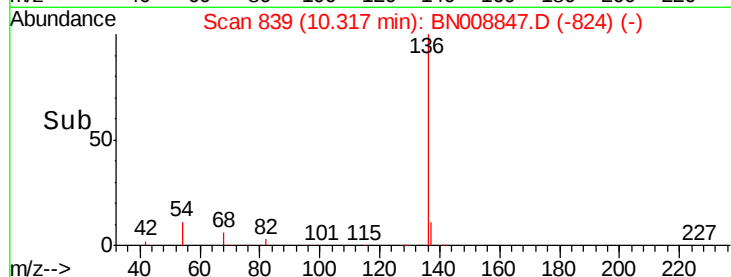


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 3.241 ng

RT: 8.69 min Scan# 711

Delta R.T. -0.01 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

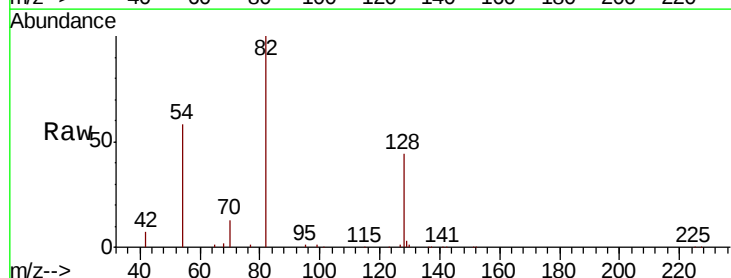
Tgt Ion: 82 Resp: 41334

Ion Ratio Lower Upper

82 100

128 43.9 35.0 52.6

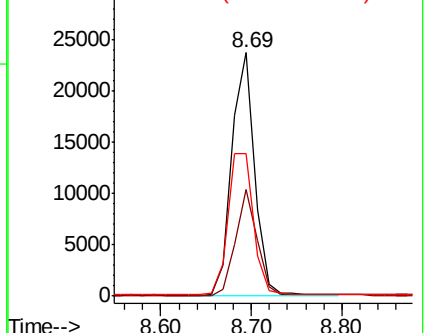
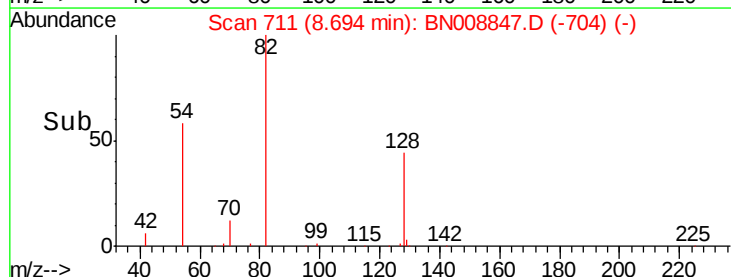
54 58.5 50.2 75.2

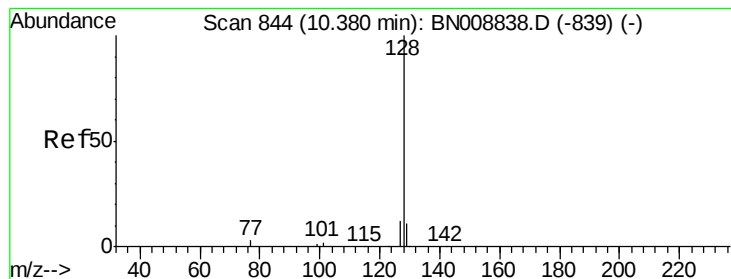


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.021 ng

RT: 10.37 min Scan# 843

Delta R.T. -0.01 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOILD

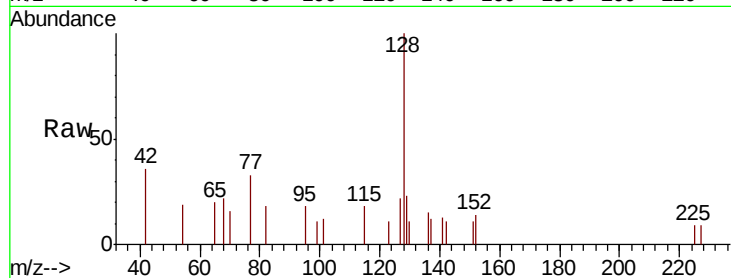
Tot Ion:128 Resp: 815

Ion Ratio Lower Upper

128 100

129 22.6 9.3 13.9#

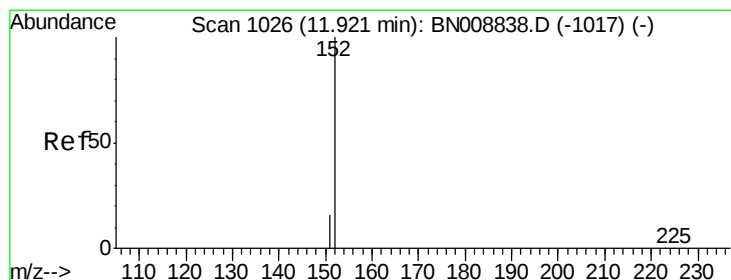
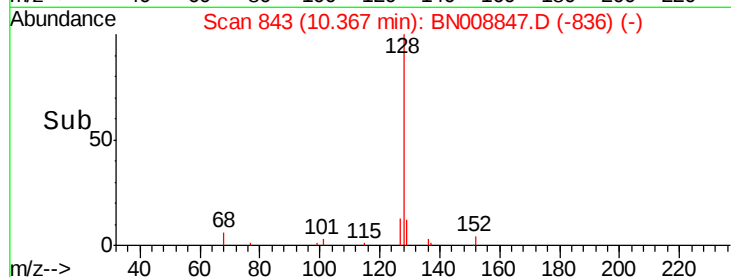
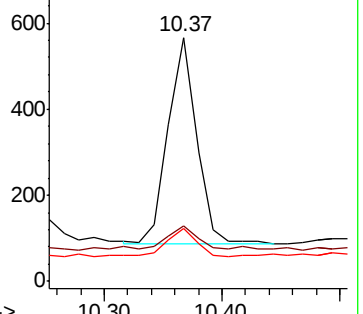
127 21.6 10.5 15.7#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#11

2-Methylnaphthalene-d10

Concen: 0.000 ng

RT: 11.92 min Scan# 1025

Delta R.T. -0.00 min

Lab File: BN008847.D

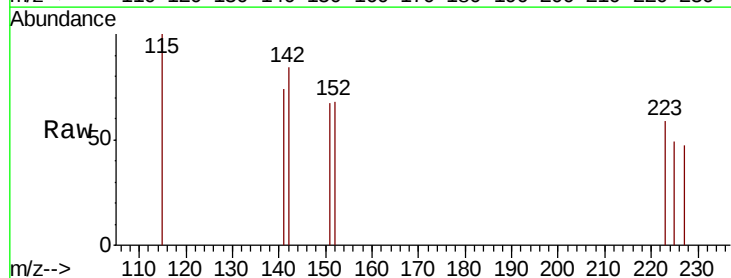
Acq: 05 Dec 2019 12:40

Tgt Ion:152 Resp: 2

Ion Ratio Lower Upper

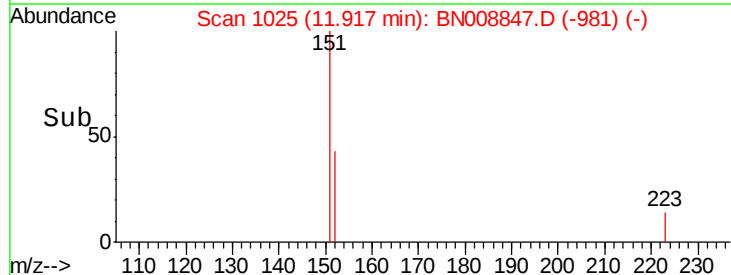
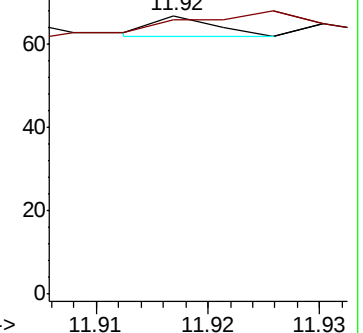
152 100

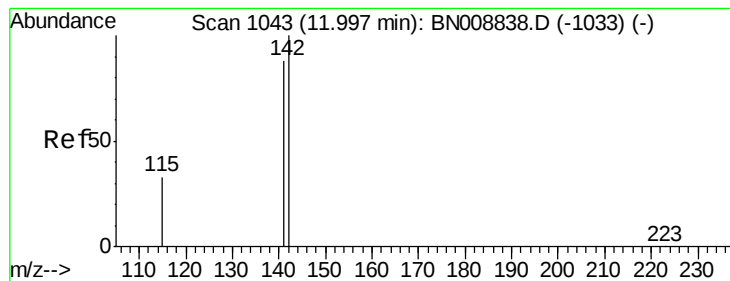
151 0.0 15.2 22.8#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#12

2-Methylnaphthalene

Concen: 4.192 ng

RT: 11.99 min Scan# 1041

Delta R.T. -0.01 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

Instrument :

BNA_N

ClientSampleID :

PT-BNA-SOILDL

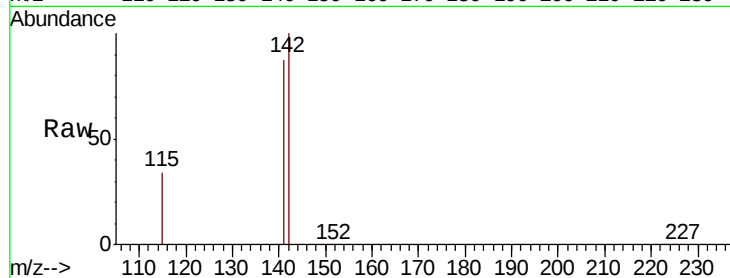
Tot Ion:142 Resp: 119076

Ion Ratio Lower Upper

142 100

141 87.3 70.2 105.4

115 33.6 27.6 41.4

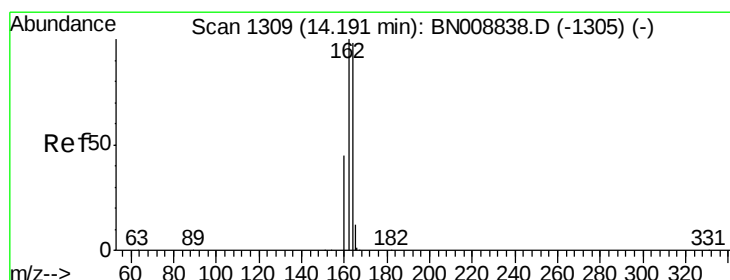
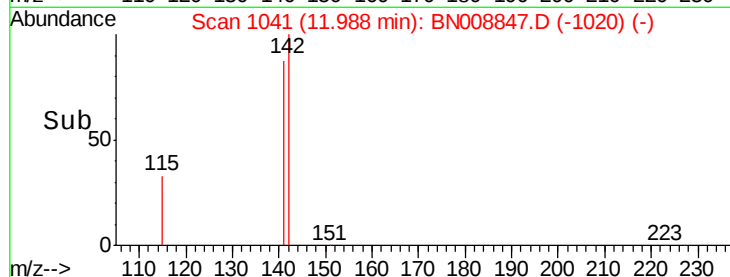
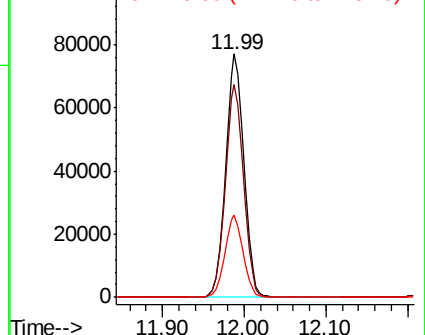


Abundance

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



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.19 min Scan# 1308

Delta R.T. -0.00 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

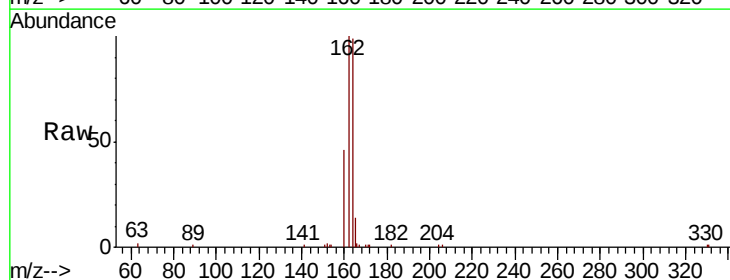
Tgt Ion:164 Resp: 10095

Ion Ratio Lower Upper

164 100

162 100.7 81.9 122.9

160 46.2 37.4 56.2

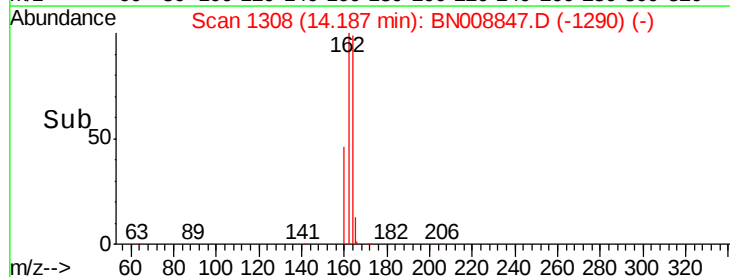
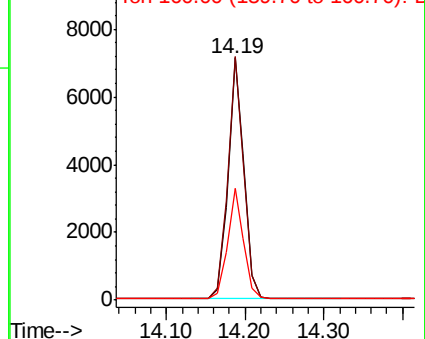


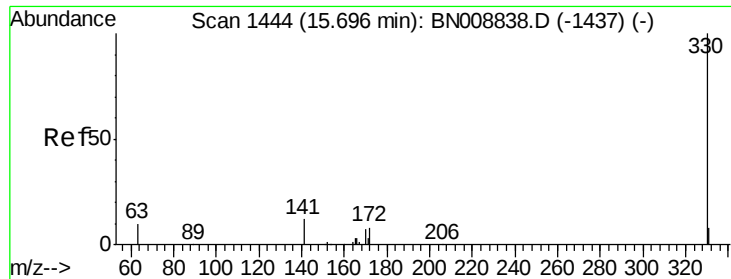
Abundance

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

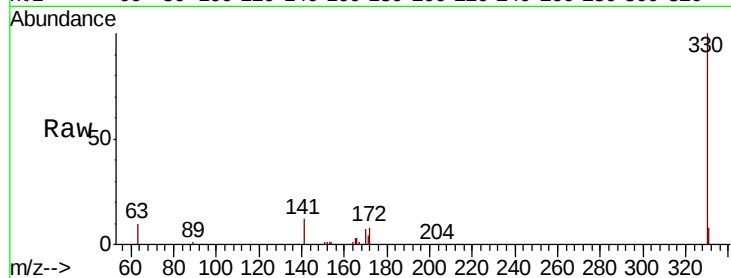




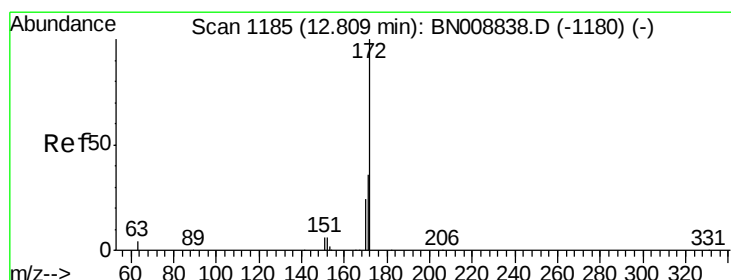
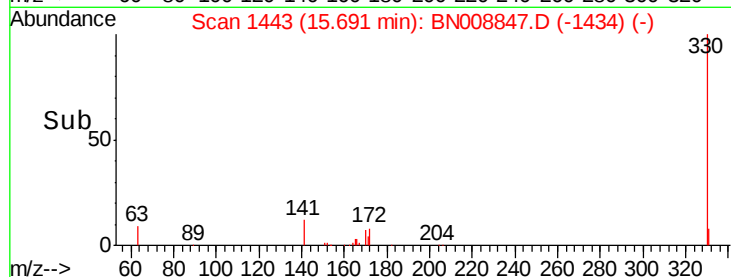
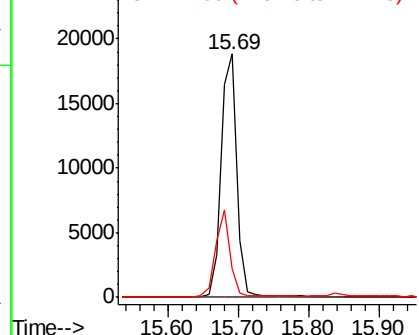
#14
 2,4,6-Tribromophenol
 Concen: 5.353 ng
 RT: 15.69 min Scan# 1443
 Delta R.T. -0.00 min
 Lab File: BN008847.D
 Acq: 05 Dec 2019 12:40

Instrument :
 BNA_N
 ClientSampleId :
 PT-BNA-SOILD

Tot Ion:330 Resp: 29400
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 32.4 26.2 39.4

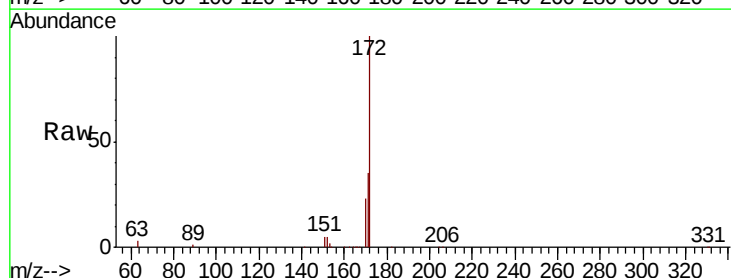


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

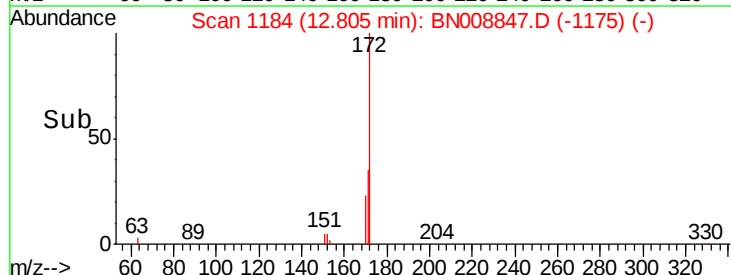
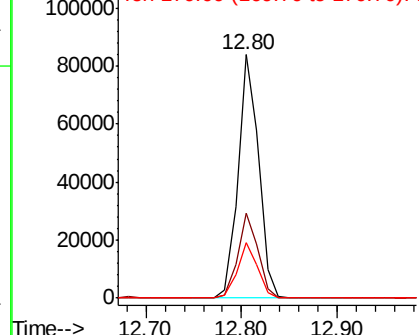


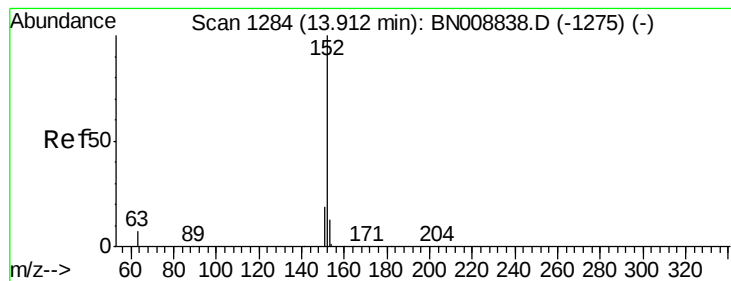
#15
 2-Fluorobiphenyl
 Concen: 3.295 ng
 RT: 12.80 min Scan# 1184
 Delta R.T. -0.00 min
 Lab File: BN008847.D
 Acq: 05 Dec 2019 12:40

Tgt Ion:172 Resp: 124644
 Ion Ratio Lower Upper
 172 100
 171 35.0 28.9 43.3
 170 23.0 19.7 29.5



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#16

Acenaphthylene

Concen: 3.431 ng

RT: 13.91 min Scan# 1283

Delta R.T. -0.00 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOILDL

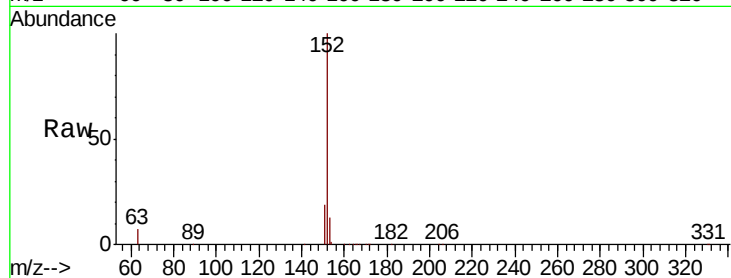
Tot Ion:152 Resp: 161542

Ion Ratio Lower Upper

152 100

151 19.4 15.4 23.2

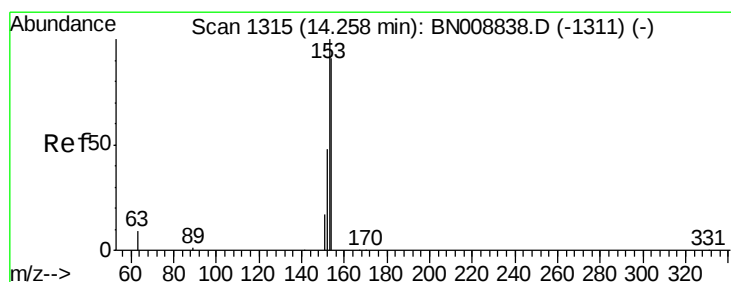
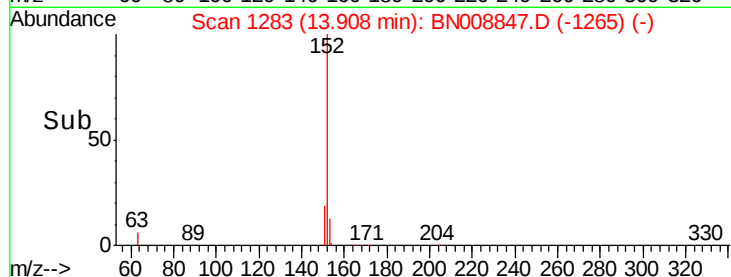
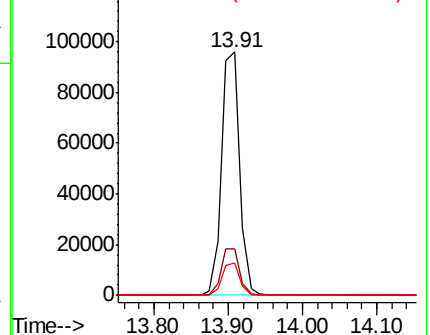
153 13.0 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#17

Acenaphthene

Concen: 3.909 ng

RT: 14.25 min Scan# 1314

Delta R.T. -0.00 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

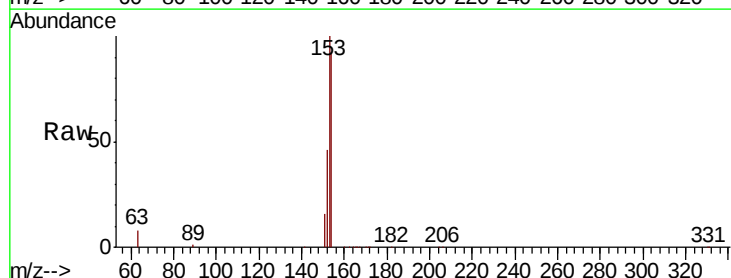
Tgt Ion:154 Resp: 116779

Ion Ratio Lower Upper

154 100

153 110.9 89.4 134.2

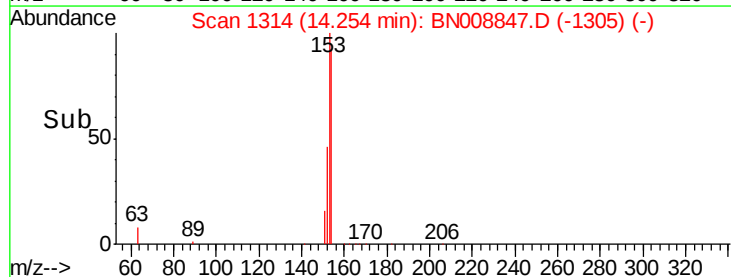
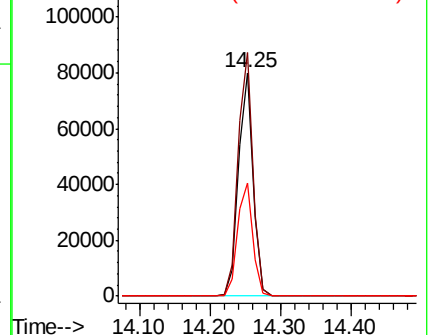
152 52.8 43.8 65.8

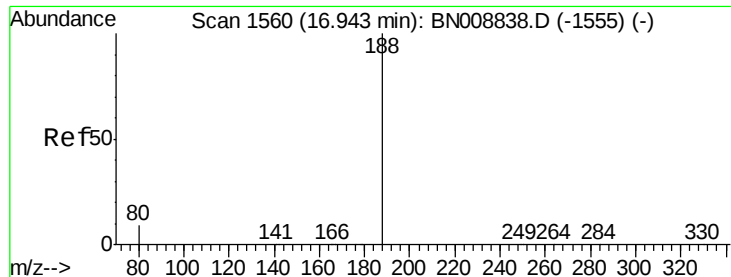


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.94 min Scan# 1559

Delta R.T. -0.00 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOILDL

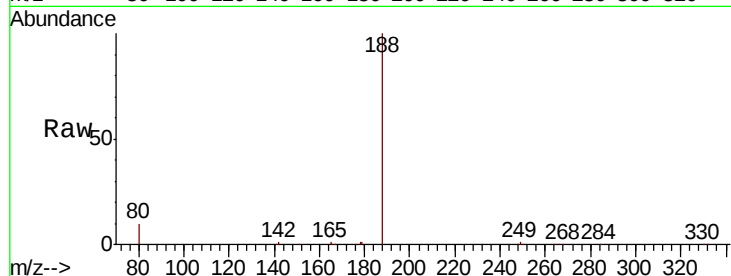
Tot Ion:188 Resp: 22302

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

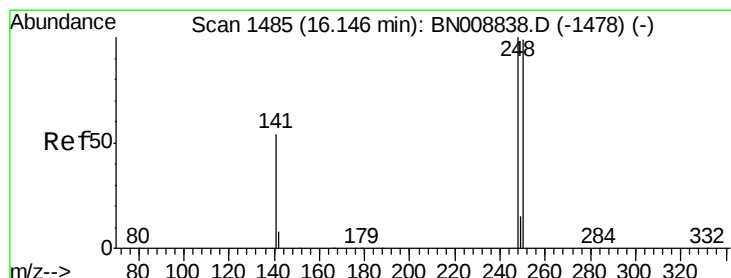
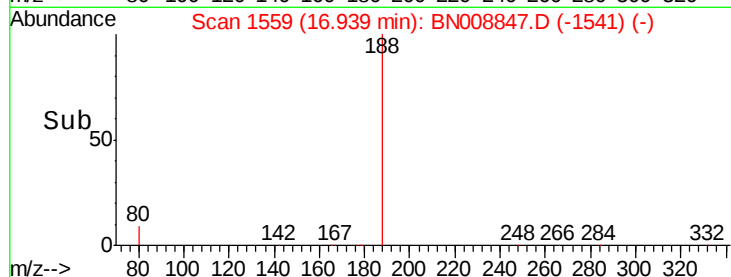
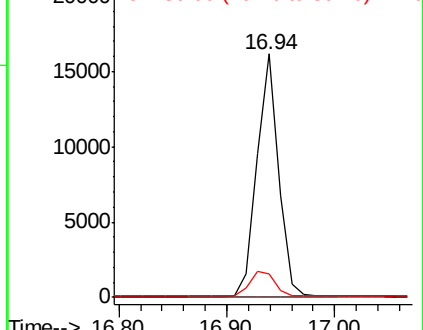
80 9.5 7.4 11.2



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



#20

4-Bromophenyl-phenylether

Concen: 5.743 ng

RT: 16.14 min Scan# 1484

Delta R.T. -0.00 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

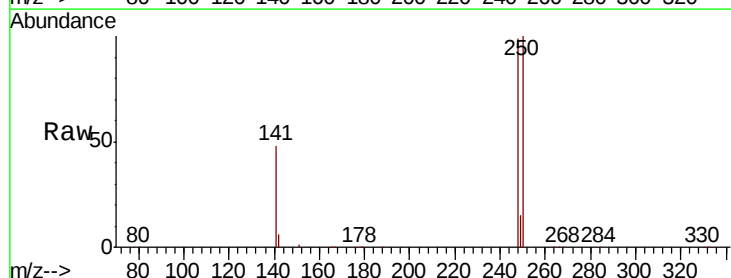
Tgt Ion:248 Resp: 74991

Ion Ratio Lower Upper

248 100

250 101.0 79.7 119.5

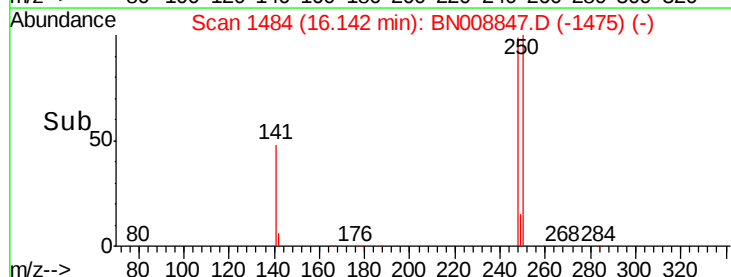
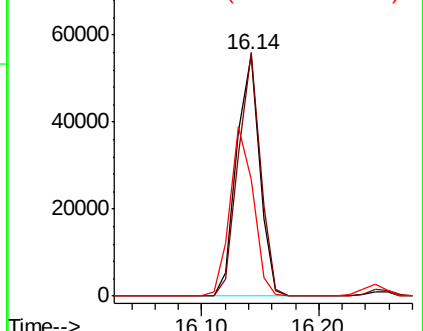
141 48.5 44.7 67.1

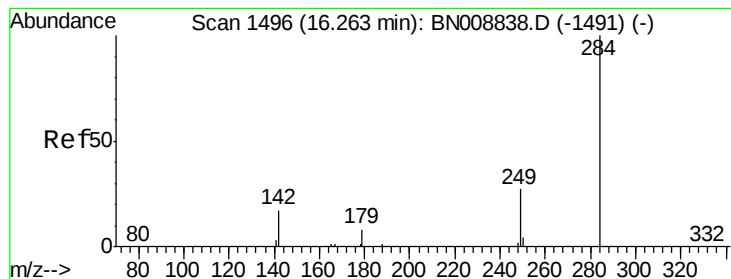


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 4.450 ng

RT: 16.26 min Scan# 1495

Delta R.T. -0.00 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOILDL

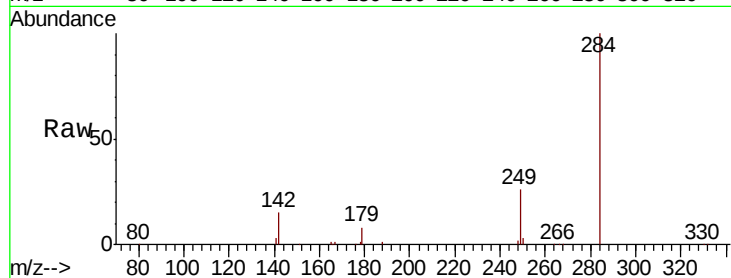
Tot Ion:284 Resp: 67045

Ion Ratio Lower Upper

284 100

142 31.7 25.4 38.0

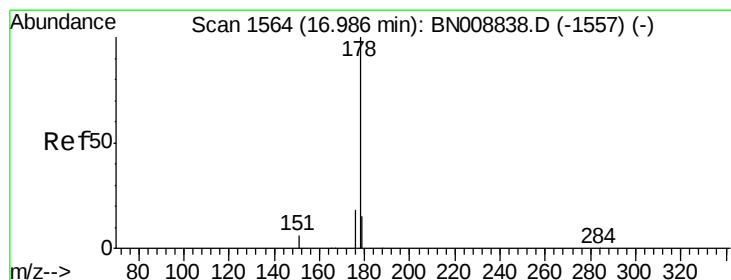
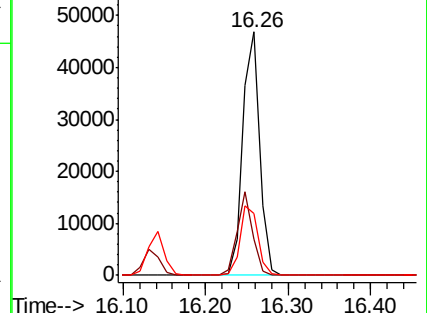
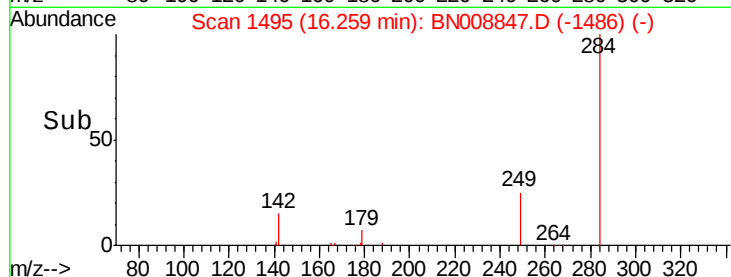
249 30.1 24.3 36.5



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#23

Phenanthrene

Concen: 2.266 ng

RT: 17.07 min Scan# 1571

Delta R.T. 0.08 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

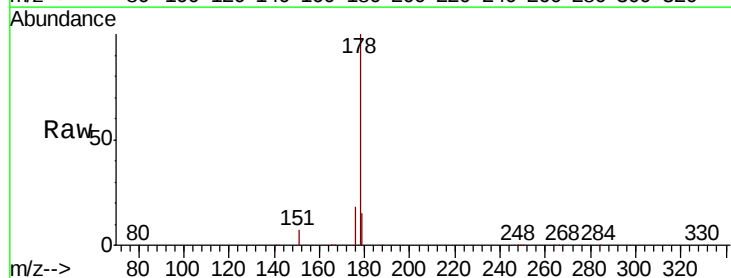
Tgt Ion:178 Resp: 154268

Ion Ratio Lower Upper

178 100

176 17.8 14.8 22.2

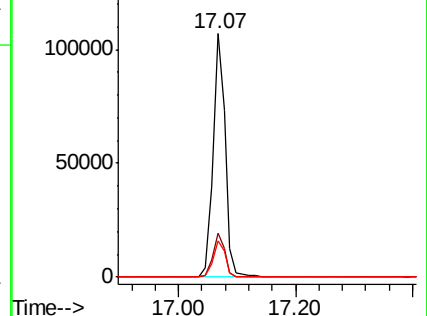
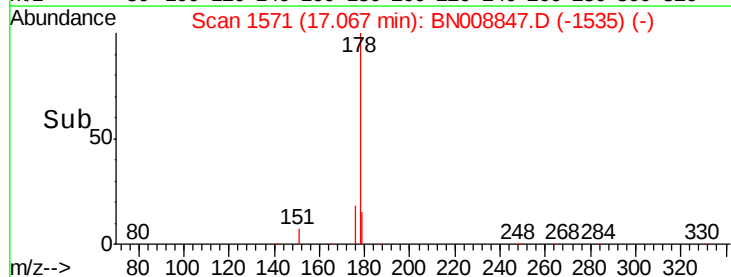
179 15.3 12.2 18.2

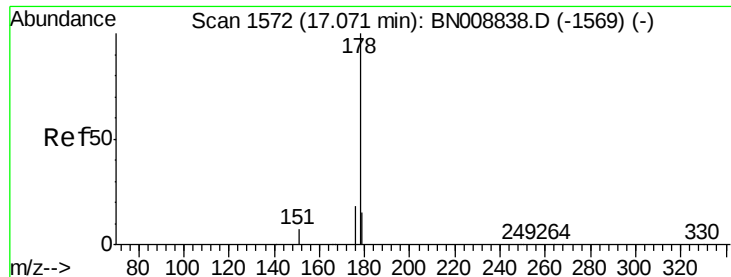


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 2.464 ng

RT: 17.07 min Scan# 1571

Delta R.T. -0.00 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOILDL

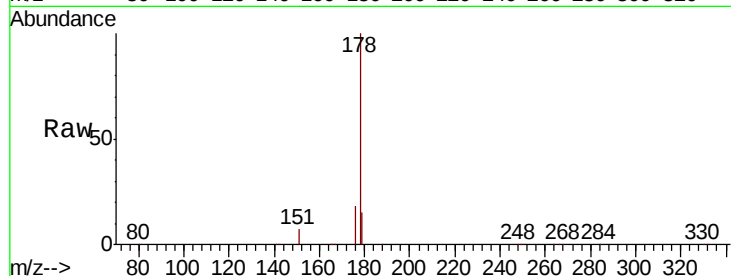
Tot Ion:178 Resp: 154004

Ion Ratio Lower Upper

178 100

176 17.8 14.3 21.5

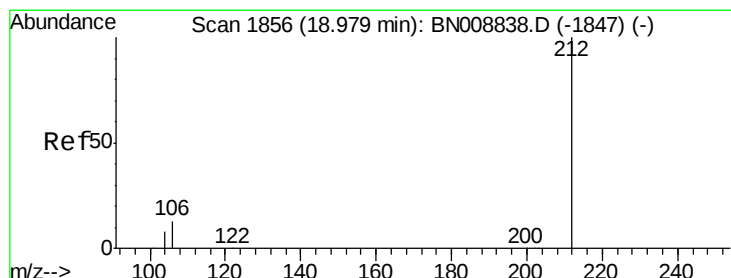
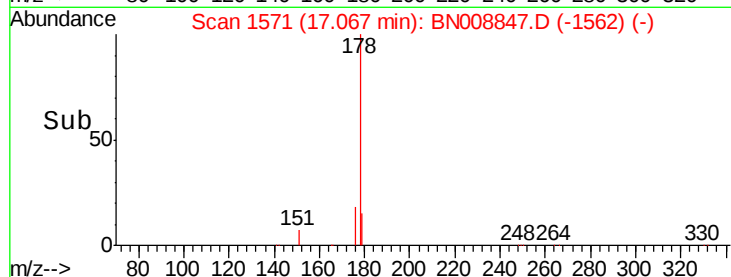
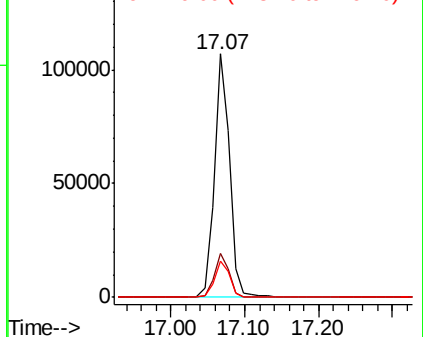
179 15.3 12.2 18.2



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



#25

Fluoranthene-d10

Concen: 0.001 ng

RT: 18.98 min Scan# 1854

Delta R.T. -0.00 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

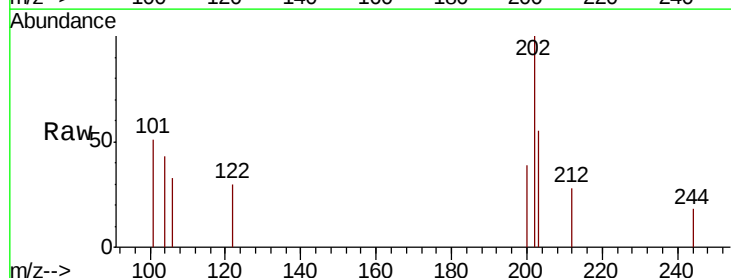
Tgt Ion:212 Resp: 42

Ion Ratio Lower Upper

212 100

106 28.6 10.7 16.1#

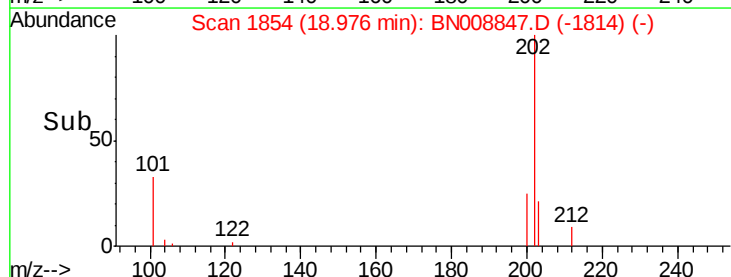
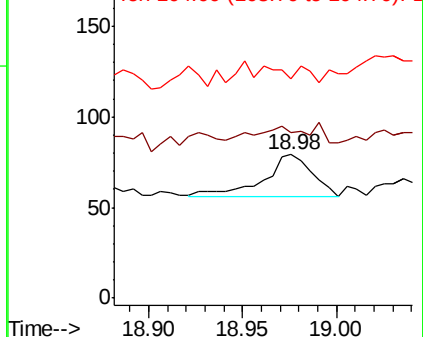
104 0.0 6.1 9.1#

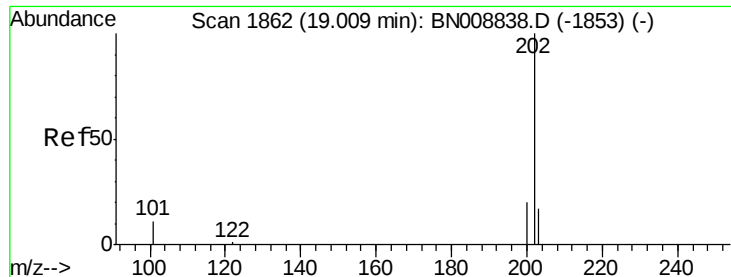


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

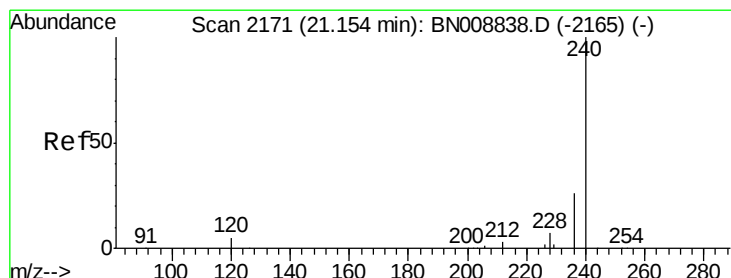
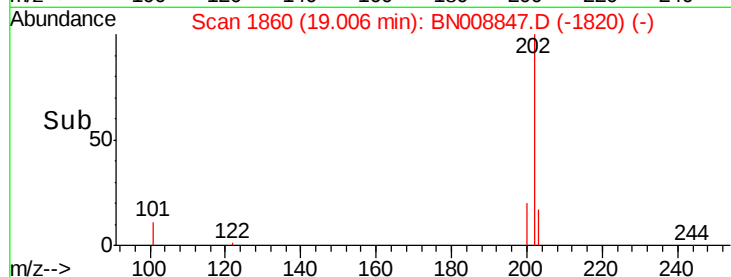
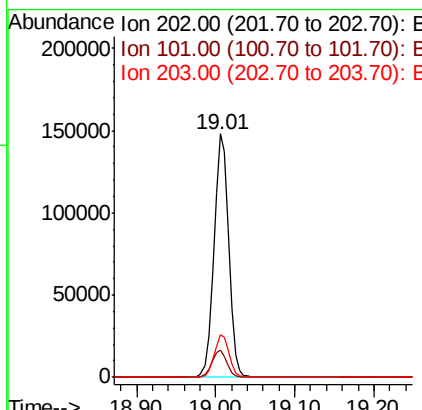
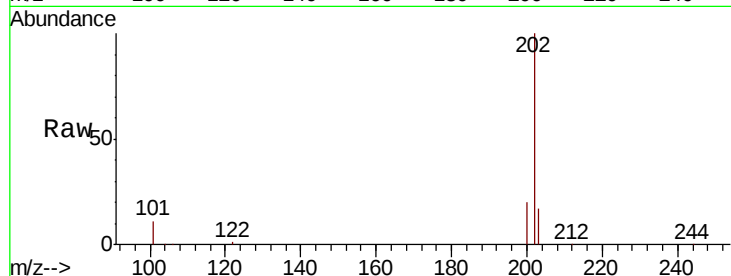




#26
Fluoranthene
 Concen: 2.360 ng
 RT: 19.01 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: BN008847.D
 Acq: 05 Dec 2019 12:40

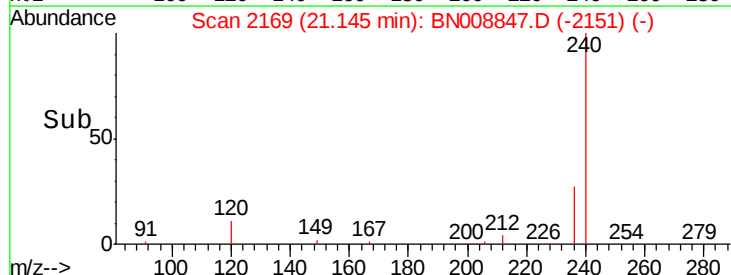
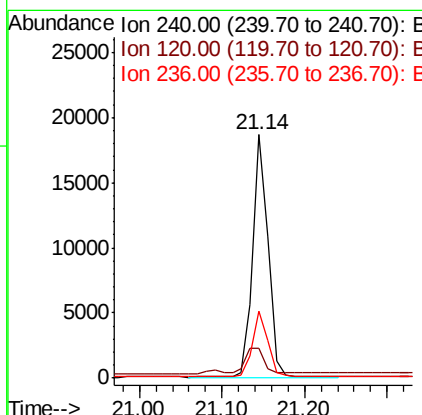
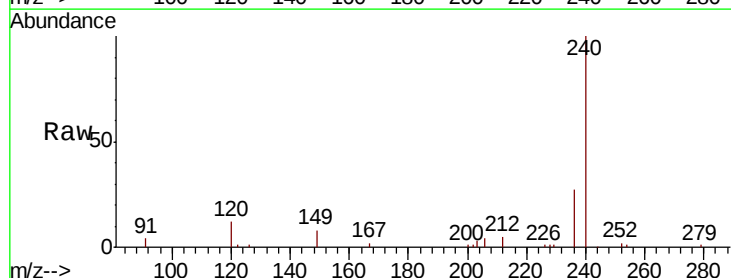
Instrument :
 BNA_N
 ClientSampleId :
 PT-BNA-SOILDL

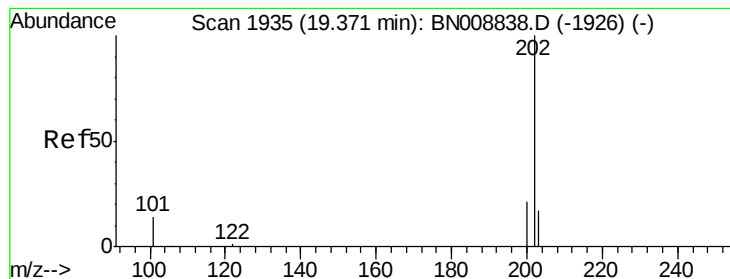
Tot Ion:202 Resp: 193460
 Ion Ratio Lower Upper
 202 100
 101 11.3 9.3 13.9
 203 17.2 13.7 20.5



#27
Chrysene-d12
 Concen: 0.400 ng
 RT: 21.14 min Scan# 2169
 Delta R.T. -0.01 min
 Lab File: BN008847.D
 Acq: 05 Dec 2019 12:40

Tgt Ion:240 Resp: 23592
 Ion Ratio Lower Upper
 240 100
 120 12.5 6.0 9.0#
 236 27.4 21.4 32.0





#28

Pvrene

Concen: 6.991 ng

RT: 19.37 min Scan# 1934

Delta R.T. 0.00 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOILDL

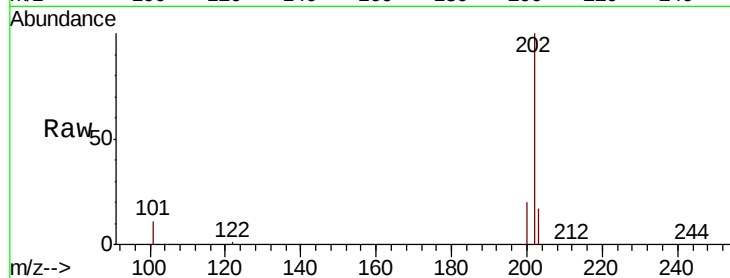
Tot Ion:202 Resp: 575424

Ion Ratio Lower Upper

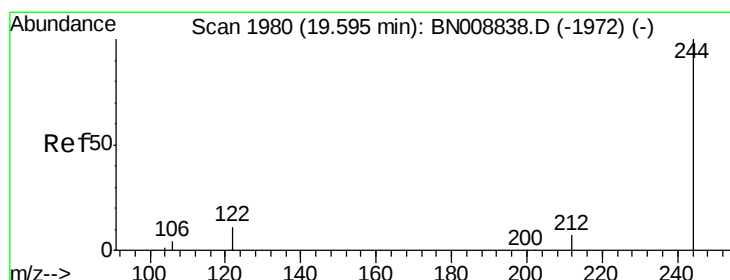
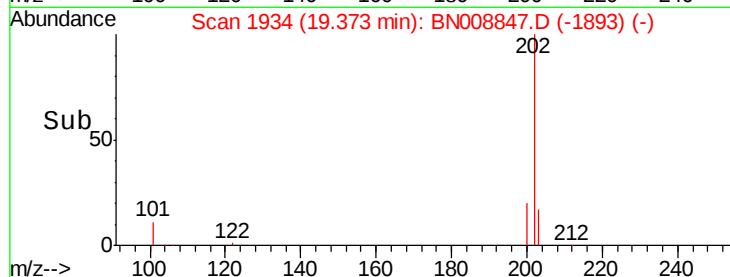
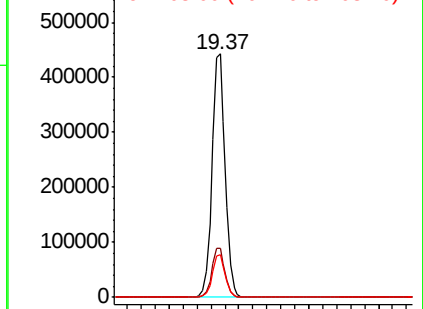
202 100

200 20.2 16.2 24.2

203 17.3 14.2 21.2



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#29

Terphenyl-d14

Concen: 3.600 ng

RT: 19.59 min Scan# 1978

Delta R.T. -0.00 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

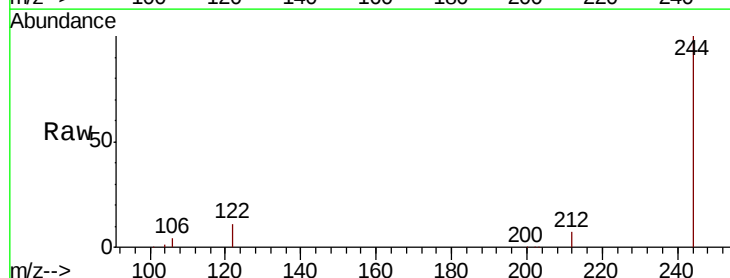
Tgt Ion:244 Resp: 195545

Ion Ratio Lower Upper

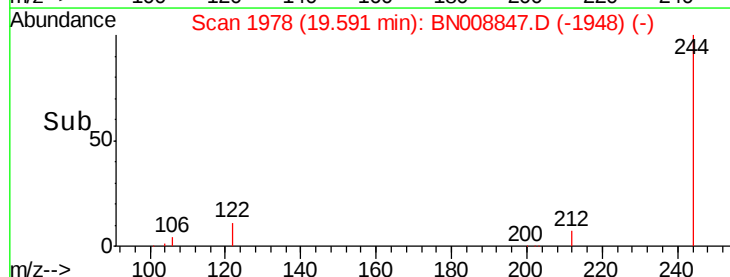
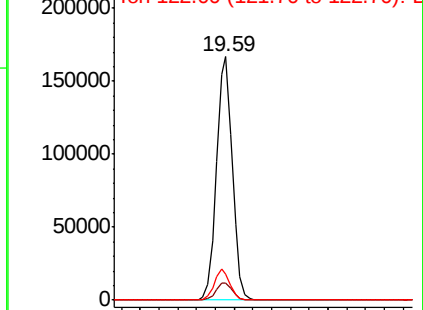
244 100

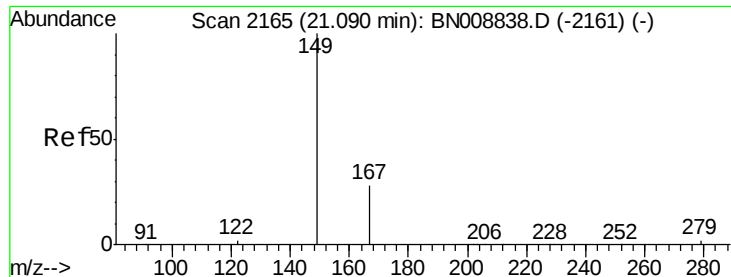
212 7.2 6.1 9.1

122 10.7 8.9 13.3



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 9.527 ng

RT: 21.09 min Scan# 2164

Delta R.T. 0.00 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOILDL

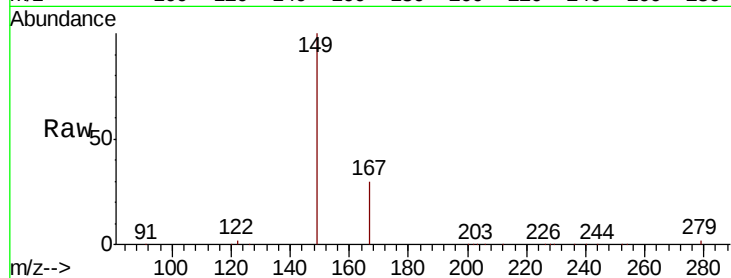
Tot Ion:149 Resp: 541538

Ion Ratio Lower Upper

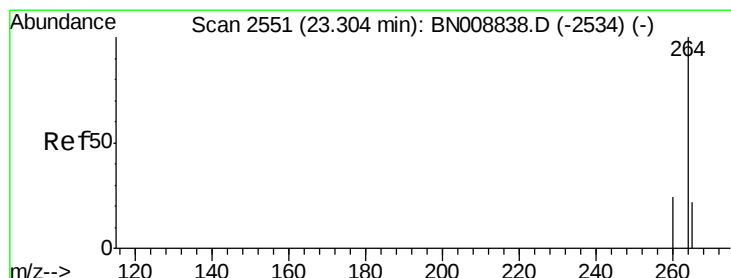
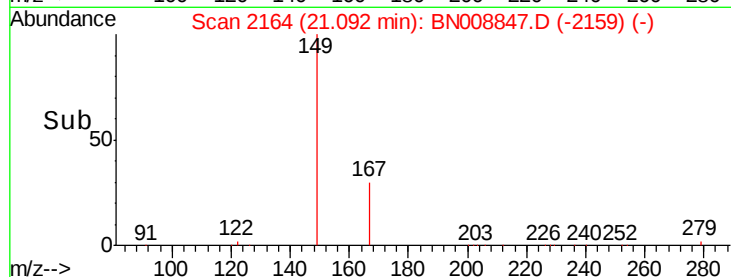
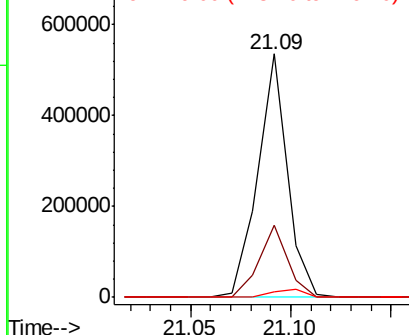
149 100

167 29.4 23.1 34.7

279 4.1 3.4 5.2



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.30 min Scan# 2549

Delta R.T. -0.00 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

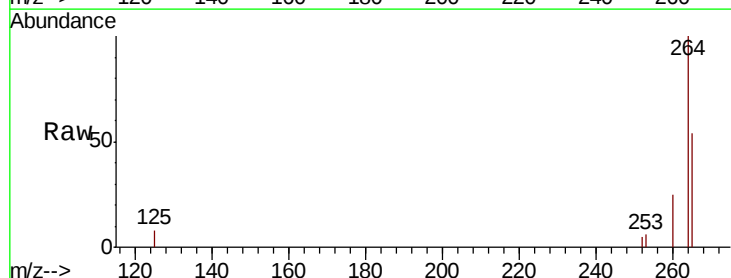
Tgt Ion:264 Resp: 26608

Ion Ratio Lower Upper

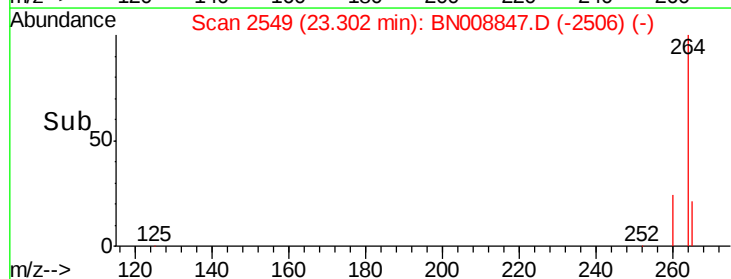
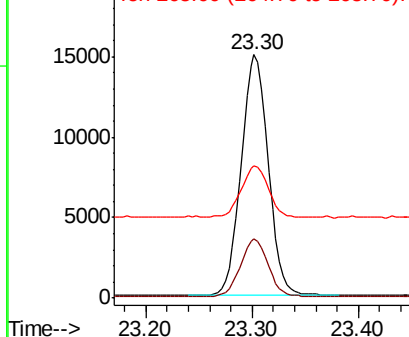
264 100

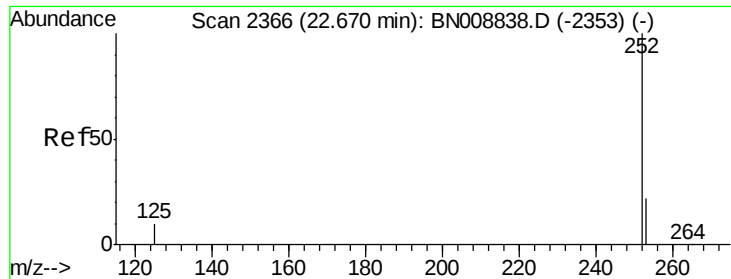
260 24.5 19.9 29.9

265 54.4 46.8 70.2



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





#35

Benzo(b)fluoranthene

Concen: 2.515 ng

RT: 22.67 min Scan# 2363

Delta R.T. -0.01 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOILD

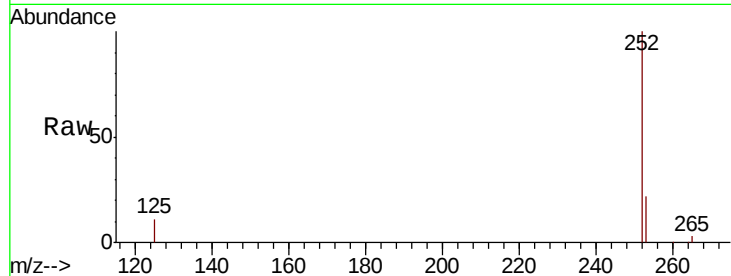
Tot Ion:252 Resp: 222262

Ion Ratio Lower Upper

252 100

253 22.2 20.6 31.0

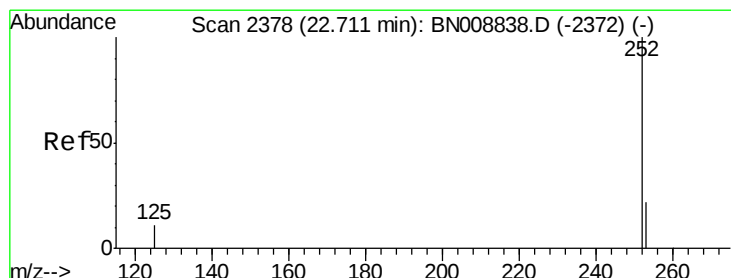
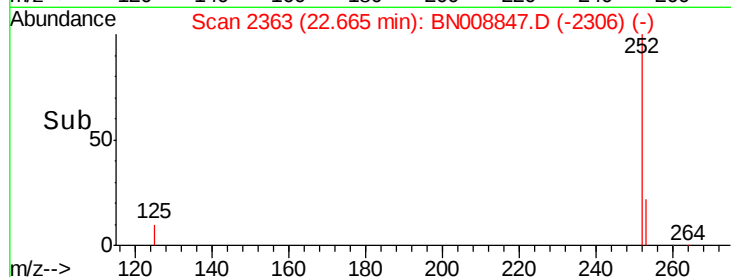
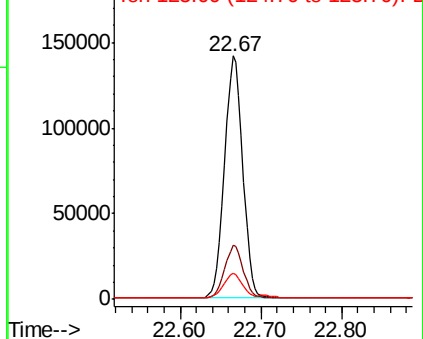
125 10.7 12.3 18.5#



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

Benzo(k)fluoranthene

Concen: 2.560 ng

RT: 22.67 min Scan# 2363

Delta R.T. -0.05 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

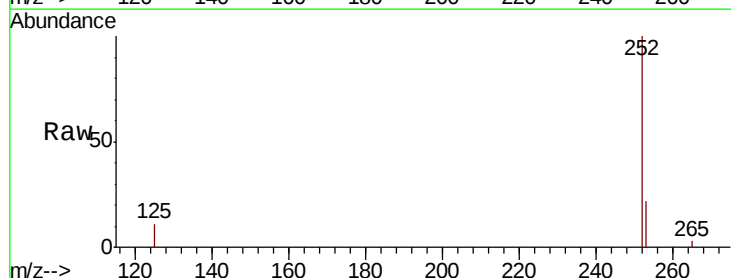
Tgt Ion:252 Resp: 222262

Ion Ratio Lower Upper

252 100

253 22.2 21.0 31.4

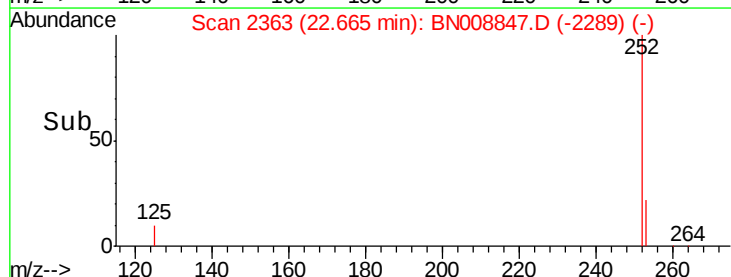
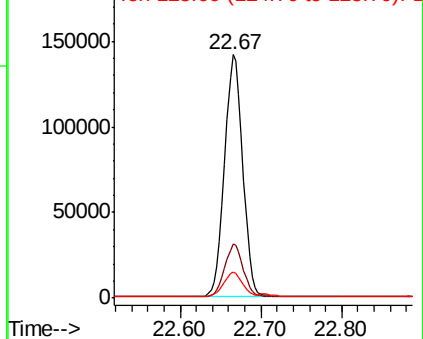
125 10.7 13.5 20.3#

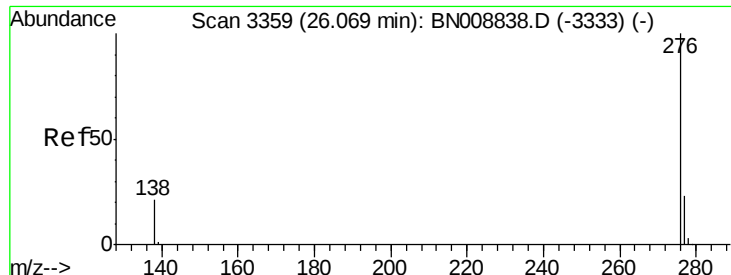


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#39

Benzo(a,h,i)perylene

Concen: 3.308 ng

RT: 26.06 min Scan# 3356

Delta R.T. -0.01 min

Lab File: BN008847.D

Acq: 05 Dec 2019 12:40

Instrument :

BNA_N

ClientSampleId :

PT-BNA-SOILDL

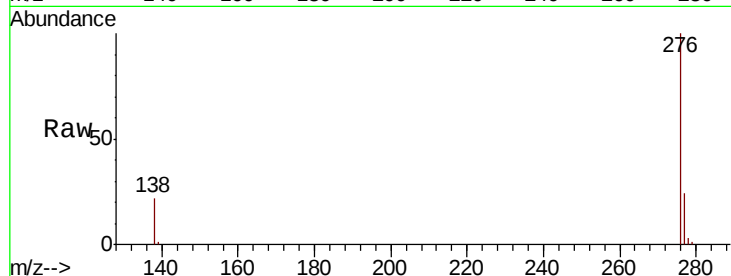
Tot Ion: 276 Resp: 285136

Ion Ratio Lower Upper

276 100

277 23.6 20.1 30.1

138 21.7 18.6 27.8



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

