

**Technical Certifications**

This exhibit for the minor modification of WBKL demonstrates compliance with all engineering standards and requirements specified in the applicable FCC rules and regulations. This application proposes a change in the WBKL location to operate into a combined antenna with KQXL. The changes are indicated below:

	Licensed	Minor Mod
Channel / Class	224C2	224C2
ASRN	1249962	1019738
Geographical Coordinates	30 51 03.6 91 04 31.4	30 37 23.7 91 09 49.6
Tower AGL	184 m	153.3 m
Site AMSL	64.0 m	23.8 m
COR AGL	179.0 m	144 m
COR AMSL	243 m	167.8 m
HAAT	184 m	145.4 m
ERP	32 kW (H&V, non-DA)	50 kW (H&V, non-DA)

GLOBE terrain data

### **Allocation Study**

#### **1. Compliance with 47 C.F.R. 73.207**

The proposed facility meets all minimum distance separation requirements with regard to co-channel, first, second, or third adjacent channel stations, and those separated by 53/54 channels, except the licensed facilities of the following stations:

Station	Channel	City of License	Facility ID	Distance Short-Spaced
KVPI-FM	223C3	Ville Platte, LA	70234	6.1 km

This application proposes contour protection (47 C.F.R. 73.215. 47 C.F.R. 73.215(e)) for KVPI-FM.

The minimum separation requirement between a class C2 and a class C3 facility (WBKL and KVPI-FM), which are first adjacent channels, is 106 km. Exhibit 1-A shows that KVPI-FM is separated from the proposed facility by 110.42 km.

Therefore, the proposed facility is permitted to use contour protection toward the short-spaced facility (See Exhibit 1-B for compliance with contour protection requirements).

### WBKL Site Spacing Table

REFERENCE					DISPLAY DATES		
30 37 23.70 N.				CLASS = C2	DATA	01-11-24	
91 09 49.60 W.				Current Spacings to 3rd Adj.	SEARCH	01-16-24	
----- Channel 224 - 92.7 MHz -----							
Call		Channel	Location		Azi	Dist	FCC Margin
WBKL	LIC	224C2	Clinton	LA	18.4	26.62	189.5 -162.9
KVPI-FM	LIC-N	223C3	Ville Platte	LA	274.4	110.42	116.5 -6.1
WRQQ	LIC	277C	Hammond	LA	128.8	39.19	34.5 4.7
WBOX-FM	LIC	225A	Varnado	LA	74.6	119.34	105.5 13.8
KSBV	LIC	224A	Delta	LA	1.0	193.74	165.5 28.2
KBDV	LIC-N	224A	Leesville	LA	286.4	201.12	165.5 35.6
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Reference station has protected zone issue: AM tower							
All separation margins include rounding							

## Channel Study

REFERENCE		CH# 224C2- 92.7 MHz, Pwr= 50 kW, HAAT= 145.4 M, COR= 167.8 M								DISPLAY DATES	
30 37 23.7 N.		Average Protected F(50-50)= 51.6 km								DATA 01-11-24	
91 09 49.6 W.		Omni-directional								SEARCH 01-16-24	
CH CITY	CALL	TYPE STATE	ANT	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
224C2 WBKL!		LIC CN	18.4	26.62		30 51 03.60	32.000		---	Reference---	
Clinton		LA	198.5	BML	20050426AAG	91 04 31.40	184	243	Educational Media Foundation		
223C3 KVPI-FM		LIC NCN	274.4	110.42		30 41 39.70	25.000	51.1	31.3	6.7	0.5
Ville Platte		LA	93.8	BLH	20170823AAC	92 18 46.50	62	81	Ville Platte Broadcasting		
277C WRQQ<		LIC CN	128.8	39.19		30 24 06.70	100.000	112	39.19	34.5R	4.7M
Hammond		LA	309.0	BMLH	20030827AGC	90 50 43.40	306	312	Radio License Holding Cbc,		
225A WBOX-FM<		LIC CN	74.6	119.34		30 54 10.60	3.000	36.4	24.1	105.5R	13.8M
Varnado		LA	255.2	BMLH	19910618KA	89 57 36.20	98	173	Best Country Broadcasting,		
224A KSBU<		LIC CN	1.0	193.74		32 22 13.50	4.300	84.3	28.2	165.5R	28.2M
Delta		LA	181.0	BLH	20130508ABW	91 07 39.40	118	141	Holladay Broadcasting Of L		
224A KBDV<		LIC NCN	286.4	201.12		31 07 07.70	6.000	85.1	27.0	165.5R	35.6M
Leesville		LA	105.4	BLH	20080722AAW	93 11 12.60	100	189	Baldrige-Dumas Communicat		

Terrain database is GLOBE 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM  
Contour distances are on direct line to and from reference station. Reference Zone= - ZN2, Co to 3rd adjacent.  
All separation margins (if shown) include rounding. Call signs with exclamation marks need not be protected.  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
""affixed to 'IN' or 'OUT' values = site inside restricted contour.  
« = Station meets FCC minimum distance spacing for its class.  
Reference station has protected zone issue: AM tower

Educational Media Foundation

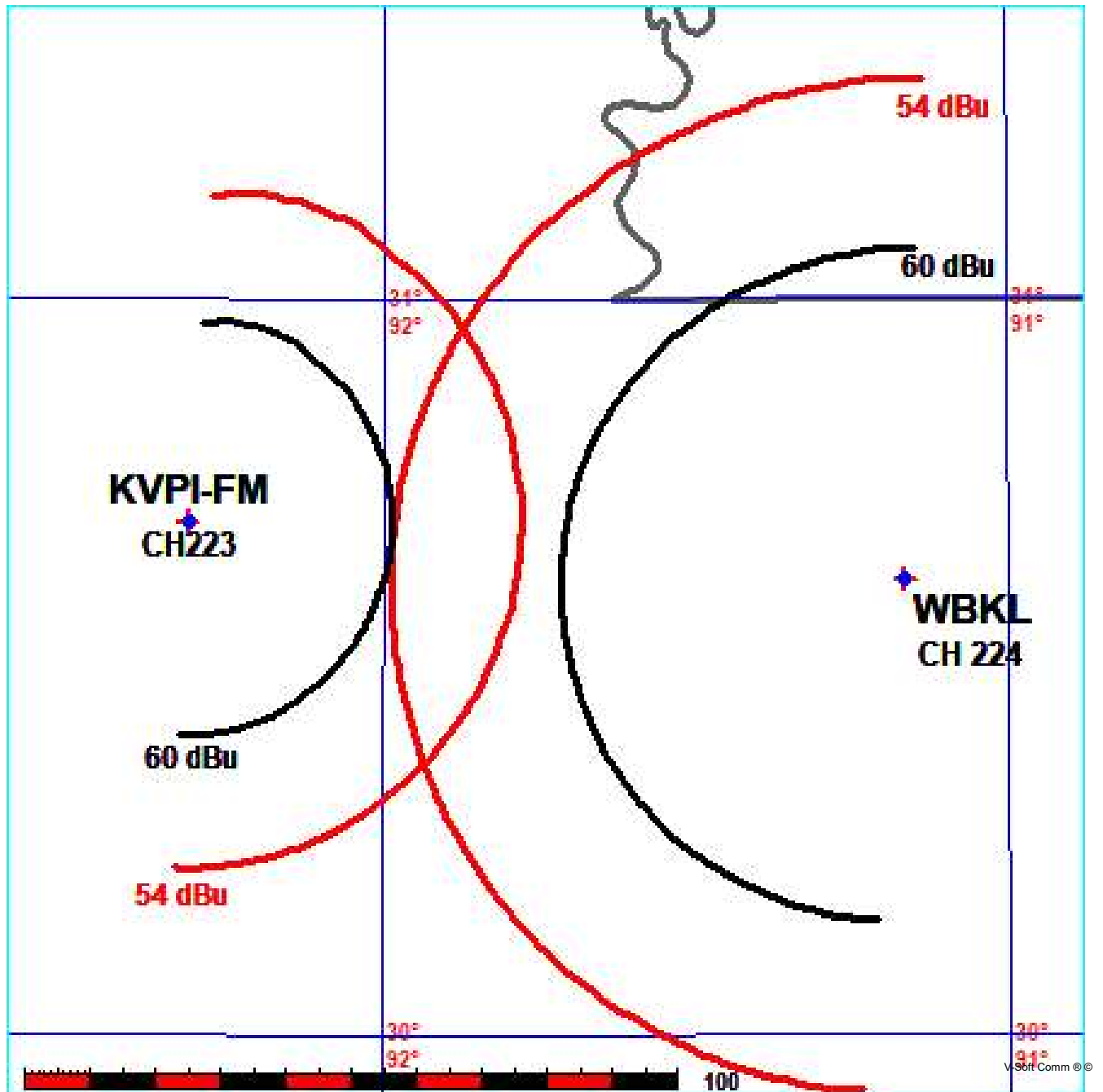
FMCommander Single Allocation Study - 01-16-2024 - GLOBE 30 Sec  
WBKL's Overlaps (In= 0.0 km, Out= 0.0 km)

WBKL CH 224 C2

Lat= 30 37 23.70, Lng= 91 09 49.60  
50.0 kW 145.4 m HAAT, 167.8 m COR  
Prot.= 60 dBu, Intef.= 54 dBu

KVPI-FM CH 223 C3 73.215 N BLH20170823AAC

Lat= 30 41 39.70, Lng= 92 18 46.50  
25.0 kW 62.4 m HAAT, 81.4 m COR  
Prot.= 60 dBu, Intef.= 54 dBu



Overlap Population Report  
WBKL at KQXL-FM (224) / Clinton, LA

Overlap Area Type: Intersection  
Areas Included:  
WBKL at KQXL-FM (224): FCC F(50-50) 70.00 dBu (FCC HAAT)  
PLST: Clinton, LA

Population Database: 2020 US Census (PL)

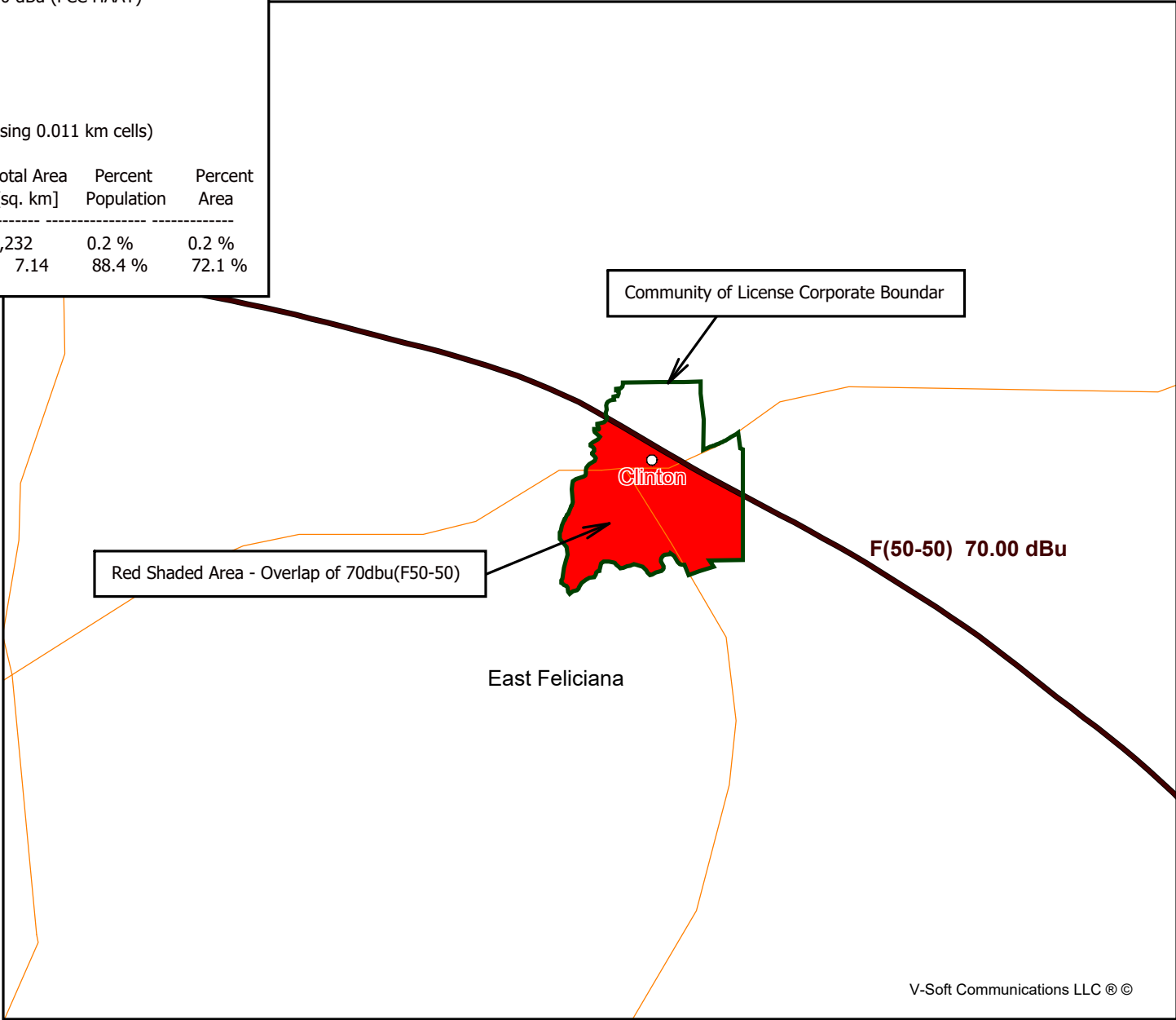
Total Population: 1,184  
Overlap Area: 5.15 sq. km (Area determined using 0.011 km cells)

Area Description	Total Population	Total Area [sq. km]	Percent Population	Percent Area
WBKL at KQXL-FM (224): FCC	579,882	3,232	0.2 %	0.2 %
PLST: Clinton, LA	1,340	7.14	88.4 %	72.1 %

WBKL Community of License Coverage  
Note: 88.4% of the Population and 72.1% of the Area of Clinton, LA is contained within the 70dbu Service Contour

Exhibit 3

**WBKL.P**  
ASR 1019738  
Latitude: 30-37-23.70 N  
Longitude: 091-09-49.60 W  
ERP: 50.00 kW  
Channel: 224  
Frequency: 92.7 MHz  
AMSL Height: 167.8 m  
Elevation: 23.8 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None



## **Environmental Protection**

There are two main factors that need to be addressed in order to make sure that the environment around a proposed facility is protected.

### **1- Significant affects to the environment.**

EMF's proposed facility will be constructed on an existing tower (tower ID 1019738) and will cause no adverse effects to the surrounding environment at the site.

### **2- Human exposure to excess levels of radiofrequency radiation.**

The proposed facility is to be built using an ERI EPA Type 3 "rototiller" 6-bay circularly polarized fullwave spaced antenna. WBKL will be diplexed for combined operation with the following facility:

Call	Channel	Status	City	FIN	Licensee / Permittee
KQXL	293C2	LIC	New Roads, LA	11607	Radio License Holding CBC, LLC

As can be seen in Exhibit 4-A, the maximum theoretical RF value would be 22.00uW/cm<sup>2</sup> at a distance of 46 meters from the tower, which is 11.00% of the 200 uW/cm<sup>2</sup> permitted for public (uncontrolled) exposure, and 2.2% of the 1000 uW/cm<sup>2</sup> permitted for worker (controlled) exposure.

Therefore, the proposed facility complies with the requirements of OET 65.

EMF will fully cooperate with other future site users to temporarily reduce power or cease broadcasting, as necessary, to protect workers and others having access to the site from excessive levels of RF Radiation.

**RF Analysis: Clinton, LA**  
**WBKL**  
**224**  
**C2**

<b>Site type:</b> Licensed	KQXL Licensed
<b>Channel:</b> 224	292
<b>Class:</b> C2	C2
<b>ERP:</b> 50kw	50kw
<b>Antenna:</b> ERI	ERI
SHPX-6-SP	SHPX-6-SP
6 bay	6 bay
1.0 spaced	1.0 spaced
<b>COR AGL:</b> 144.0000	144m
<b>Polarization:</b> Circular	Circular

Distance From Tower (m)	WBKL Circular	KQXL Circular	Total RF (uW/cm2)	Percent of 200uW/cm2
0	4.8333	4.8333	9.67	4.83
1	4.8331	4.8331	9.67	4.83
2	4.8324	4.8324	9.66	4.83
3	4.8312	4.8312	9.66	4.83
4	4.8295	4.8295	9.66	4.83
5	4.8273	4.8273	9.65	4.83
6	4.8245	4.8245	9.65	4.82
7	4.8211	4.8211	9.64	4.82
8	4.8171	4.8171	9.63	4.82
9	4.8124	4.8124	9.62	4.81
10	4.8069	4.8069	9.61	4.81
11	4.8006	4.8006	9.60	4.80
12	4.7934	4.7934	9.59	4.79
13	4.8739	4.8739	9.75	4.87
14	5.0883	5.0883	10.18	5.09
15	5.3052	5.3052	10.61	5.31
16	5.5243	5.5243	11.05	5.52
17	5.7453	5.7453	11.49	5.75
18	5.9677	5.9677	11.94	5.97
19	6.1911	6.1911	12.38	6.19
20	6.4150	6.4150	12.83	6.41
21	6.6388	6.6388	13.28	6.64
22	6.8621	6.8621	13.72	6.86
23	7.0843	7.0843	14.17	7.08
24	7.3047	7.3047	14.61	7.30
25	7.5227	7.5227	15.05	7.52
26	7.7644	7.7644	15.53	7.76
27	8.0207	8.0207	16.04	8.02
28	8.2738	8.2738	16.55	8.27
29	8.5227	8.5227	17.05	8.52
30	8.7665	8.7665	17.53	8.77
31	9.0043	9.0043	18.01	9.00
32	9.2349	9.2349	18.47	9.23
33	9.4574	9.4574	18.91	9.46
34	9.6708	9.6708	19.34	9.67
35	9.8739	9.8739	19.75	9.87
36	10.0657	10.0657	20.13	10.07
37	10.2452	10.2452	20.49	10.25
38	10.4112	10.4112	20.82	10.41
39	10.5544	10.5544	21.11	10.55
40	10.6703	10.6703	21.34	10.67
41	10.7700	10.7700	21.54	10.77
42	10.8527	10.8527	21.71	10.85
43	10.9176	10.9176	21.84	10.92
44	10.9639	10.9639	21.93	10.96
45	10.9910	10.9910	21.98	10.99



Distance From Tower (m)	0.0000 Facility	KQXL Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
46	10.9983	10.9983	22.00	11.00
47	10.9852	10.9852	21.97	10.99
48	10.9514	10.9514	21.90	10.95
49	10.8965	10.8965	21.79	10.90
50	10.8203	10.8203	21.64	10.82
51	10.7227	10.7227	21.45	10.72
52	10.6038	10.6038	21.21	10.60
53	10.4743	10.4743	20.95	10.47
54	10.3306	10.3306	20.66	10.33
55	10.1651	10.1651	20.33	10.17
56	9.9783	9.9783	19.96	9.98
57	9.7708	9.7708	19.54	9.77
58	9.5433	9.5433	19.09	9.54
59	9.2966	9.2966	18.59	9.30
60	9.0319	9.0319	18.06	9.03
61	8.7501	8.7501	17.50	8.75
62	8.4526	8.4526	16.91	8.45
63	8.1406	8.1406	16.28	8.14
64	7.8156	7.8156	15.63	7.82
65	7.4792	7.4792	14.96	7.48
66	7.1330	7.1330	14.27	7.13
67	6.7787	6.7787	13.56	6.78
68	6.4321	6.4321	12.86	6.43
69	6.0815	6.0815	12.16	6.08
70	5.7259	5.7259	11.45	5.73
71	5.3673	5.3673	10.73	5.37
72	5.0078	5.0078	10.02	5.01
73	4.6491	4.6491	9.30	4.65
74	4.2933	4.2933	8.59	4.29
75	3.9423	3.9423	7.88	3.94
76	3.5979	3.5979	7.20	3.60
77	3.2619	3.2619	6.52	3.26
78	2.9360	2.9360	5.87	2.94
79	2.6219	2.6219	5.24	2.62
80	2.3211	2.3211	4.64	2.32
81	2.0349	2.0349	4.07	2.03
82	1.7647	1.7647	3.53	1.76
83	1.5115	1.5115	3.02	1.51
84	1.2791	1.2791	2.56	1.28
85	1.0649	1.0649	2.13	1.06
86	0.8694	0.8694	1.74	0.87
87	0.6932	0.6932	1.39	0.69
88	0.5367	0.5367	1.07	0.54
89	0.4005	0.4005	0.80	0.40
90	0.2845	0.2845	0.57	0.28
91	0.1887	0.1887	0.38	0.19
92	0.1131	0.1131	0.23	0.11
93	0.0572	0.0572	0.11	0.06
94	0.0205	0.0205	0.04	0.02
95	0.0024	0.0024	0.00	0.00
96	0.0020	0.0020	0.00	0.00
97	0.0185	0.0185	0.04	0.02
98	0.0507	0.0507	0.10	0.05
99	0.0976	0.0976	0.20	0.10
100	0.1579	0.1579	0.32	0.16