【TN0035B】Bluetooth Antenna

1.Specification

Antenna Type	Inverted-F PCB Antenna
Part No.	135943-757 (PWB)
Antenna Gain(Peak)	-1.22 dBi Peak (Assembled state of the product)
Frequency Band	2.402～2.480 GHz

2.Appearance / Dimension

See fig1 on another sheet . (FCC Test Setup Photo_AUT sheet)

測定内容/Measurement content

1.測定条件/Measurement condition

・測定ANT/Measurement ANT：　BBHA9120（0.5～6GHz）

・基準ANT/Reference ANT：　MA5612B4（2.25～2.6GHz）

・測定器/measuring instrument：　E8357A（Agilent network analyzer）

・測定距離/Measured distance：　3m　（高さ1m/1m high）

・測定範囲/range of measurement：　360度/1度ステップ/360 degree/1 degree step

・測定レイアウト/Measurement layout：　測定環境は以下のレイアウトで測定

The measurement environment is measured with the following layout.

See fig2 on another sheet. (FCC Test Setup Photo_AUT sheet)

2.測定方向/measurement direction

XY平面	XZ平面
XY plane	XZ plane

See fig3 on another sheet . (FCC Test Setup Photo_AUT sheet)

(RX-ANT_View)	(RX-ANT_View)

・測定日時/test dates : 17. Mar. 2022
・測定者/names of test personnel : Yamashita Kohji （DENSO TEN Limited）
・ソフトウェア/names of commercial test software being used : antmain（DENSO TEN Limited）

3.アンテナゲイン/antenna gain

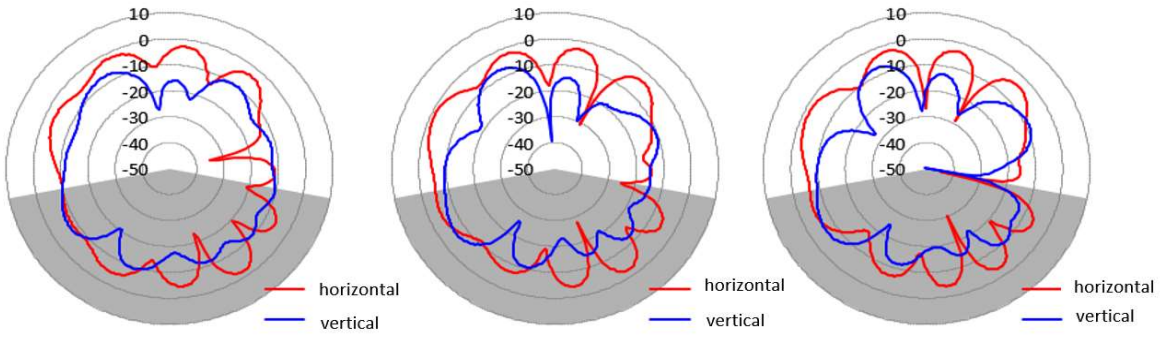
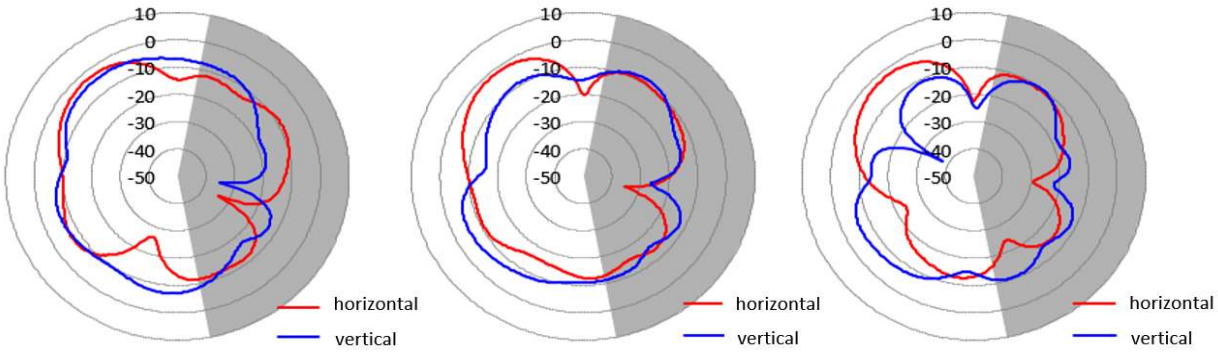
frequency [MHz]	Plane	plane of polarization	±100° Average [dBi]	±100° true mean	Composite true value	Composite [dBi]	DIP[dBi]	DIP-AVE [dB]
2402	XY	HOR.	-5.92	0.26	0.33	-4.81	-34.71	29.84
		VER.	-11.52	0.07				
	XZ	HOR.	-7.40	0.18	0.39	-4.13	-34.98	30.85
		VER.	-6.90	0.20				
2441	XY	HOR.	-5.36	0.29	0.35	-4.54	-39.31	34.77
		VER.	-12.21	0.06				
	XZ	HOR.	-6.97	0.20	0.32	-4.98	-35.27	30.29
		VER.	-9.33	0.12				
2480	XY	HOR.	-5.66	0.27	0.33	-4.79	-50.88	46.09
		VER.	-12.19	0.06				
	XZ	HOR.	-8.06	0.16	0.24	-6.16	-37.77	31.61
		VER.	-10.66	0.09				

*Correction during measurement: cable loss = 0.24 dB After correction **-4.63 dBi Ave**

-1.22 dBi Max Peak

Radio wave radiation pattern (directivity graph)

XY-plane @2402/2441/2480 MHz



XZ-plane @2402/2441/2480 MHz