

3D Antenna Measurement Summary Report

REPORT NO.: W7L-P22100011OT01

PLATFORM MANUFACTURER: Haoda Circuit Group

PLATFORM NAME: Bluetooth Module

ANTENNA TYPE: PCB Antenna

TESTED DATE: 2022.10.20

ISSUED: 2022.10.31

- APPLICANT: Shenzhen Linkiing Technology co.,LTD
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RELEASE CONTROL RECORD

REPORT NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P22100011OT01	Original release	2022.10.31

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GENERAL INFORMATION

APPLICANT:	Shenzhen Linkiing Technology co.,LTD
MANUFACTURER:	Haoda Circuit Group
MODEL NO.:	LK8625

Test Standard: ANSI/IEEE Std. 149-2021.

PREPARED BY :	Leon Guo	, DATE :	2022.10.31	
	Leon Guo / Engineer			
APPROVED BY : _	lupe lu	, DATE :	2022.10.31	
	Luke Lu / Manager			



1. Test Equipment List

TYPE OF EQUIPMENT	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DUE DATE
Network Analyzer	E5071C	MY46214638	2023.05.06
OTA Chamber	ETS AMS8500	N/A	N/A
RF Switch	ETS EMCenter	N/A	N/A
Measurement Antenna	ETS 3164-06	N/A	N/A

2. Measurement Uncertainty

Expanded Uncertainty for Measurement (k=2 or 95% Confidence Level) at Passive antenna test over frequency range 780 – 2200MHz is +/- 1.52 dB.



3. Characteristics of antenna

3.1. 3D Antenna Gain-Free Space

Frequency (MHz)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	8.46	-7.64	17.22	0.82
2410	8.57	-7.18	19.14	1.38
2420	8.69	-6.63	21.73	2.06
2430	8.81	-6.18	24.08	2.63
2440	8.93	-5.80	26.31	3.13
2450	9.04	-5.57	27.74	3.47
2460	9.13	-5.32	29.38	3.81
2470	9.20	-5.20	30.22	4.01
2480	9.29	-5.14	30.64	4.15
2490	9.40	-5.15	30.53	4.25
2500	9.51	-5.10	30.91	4.41



3.2. Antenna Pattern



















Total





3.3. LOG MAG



3.4. SWR





Appendix A. EUT Photographs

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Appendix B. EUT SETUP Photographs



Free Space