



VCU printed antenna report

Rev D

30 Sep-2022

Revision History



Revision	Date	Description of changes
A	05 MAY-2021	initial report.
B	10 MAY-2021	Modify the BT printed antenna.
C	11 APR-2022	BT Antenna impedance matching.
D	30 Sep-2022	For DVT PCB verification

Content



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1.0 Summary



- ◆ This report SINBON provide the antenna test result.
- ◆ Test result are shown in section 4.

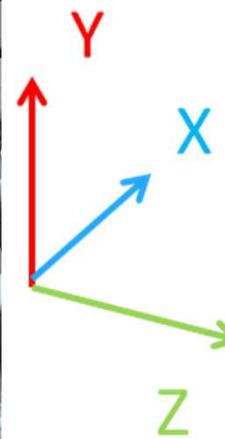
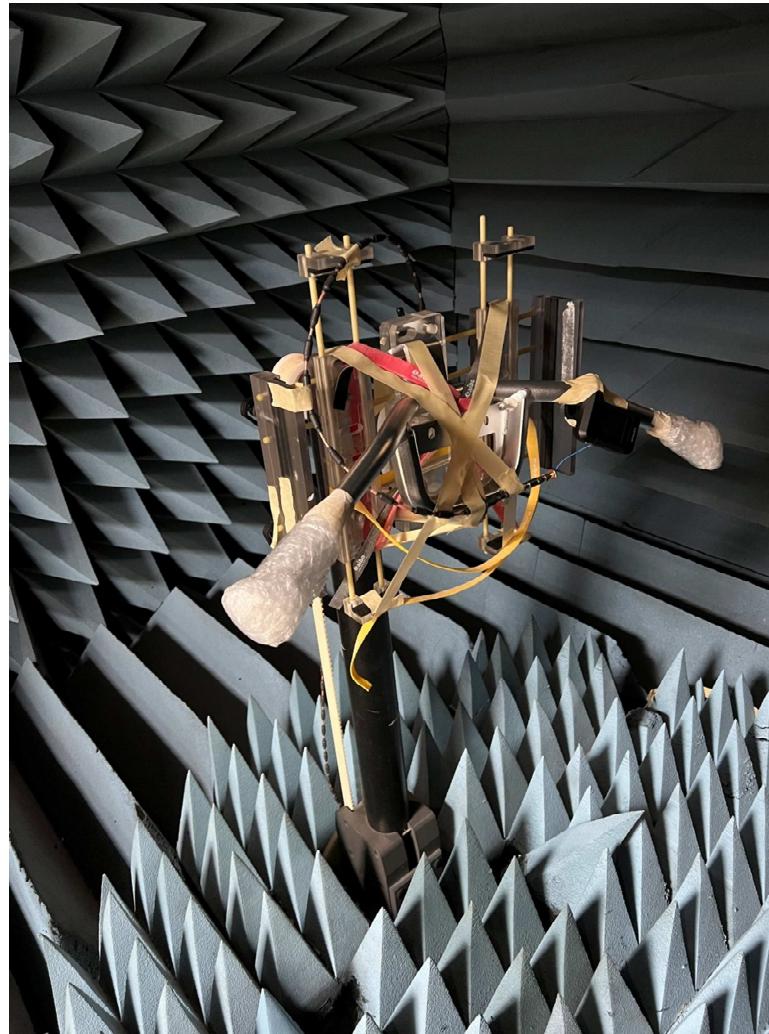
2.0 Test fixtures pictures

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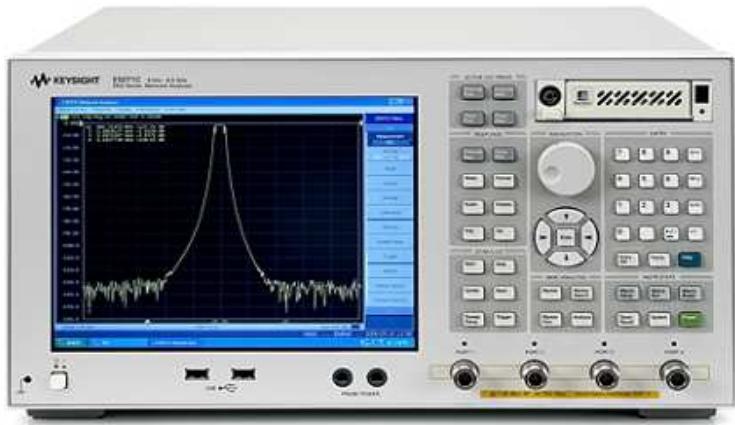


2.0 Test fixtures pictures

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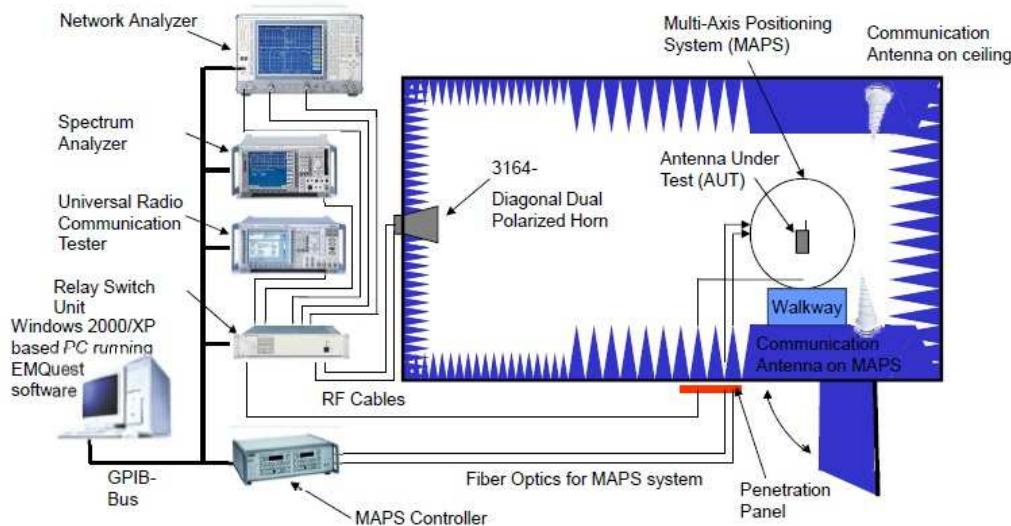
3.0 Test setup (Network Analyzer)



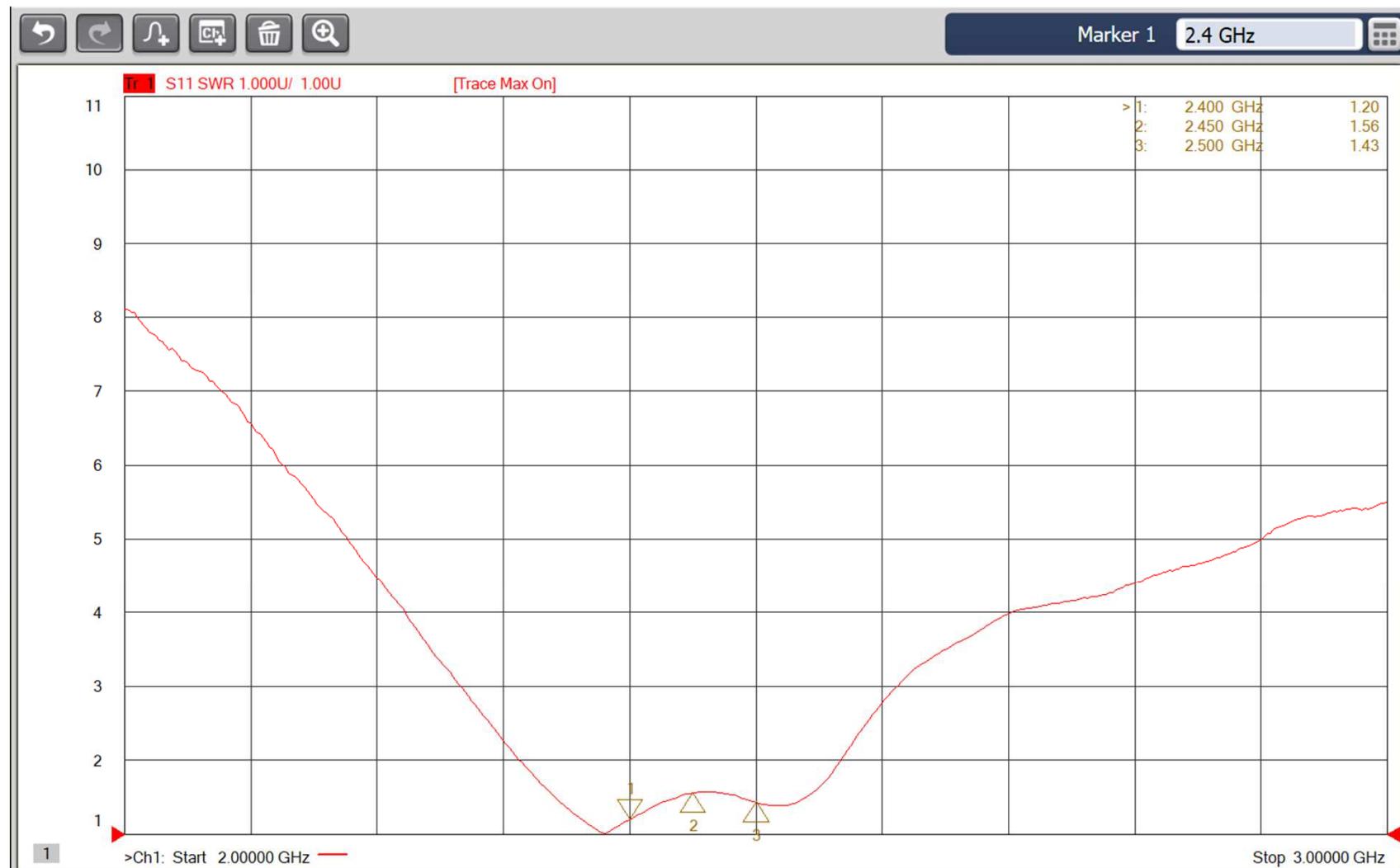
VSWR / Return Loss measurements were performed using an Agilent E5071C Network Analyzer and the test fixture shown in section 2. The testing was performed in free space. The complete VSWR and Return Loss plots are provided in section 4.0.

3.1 ETS Chamber - AMS-8500

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4.0 VSWR



4.1 Efficiency/Peak Gain

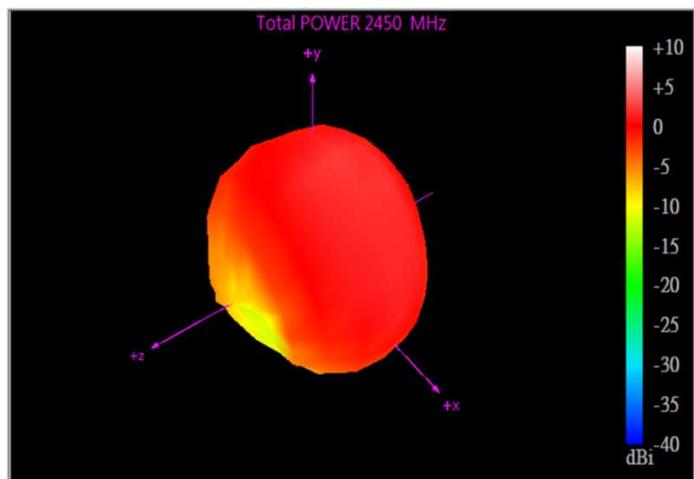


MHz	BT Antenna(NEW)		
	Efficiency (dB)	Efficiency (%)	Peak Gain (dBi)
2400	-3.29	46.91	3.01
2410	-3.08	49.22	3.21
2420	-3.63	43.34	2.54
2430	-3.96	40.17	2.33
2440	-4.16	38.33	2.44
2450	-4.25	37.58	2.28
2460	-4.07	39.14	2.35
2470	-4.12	38.70	2.38
2480	-4.36	36.60	1.63
2490	-4.01	39.69	2.59
2500	-3.29	46.91	3.01

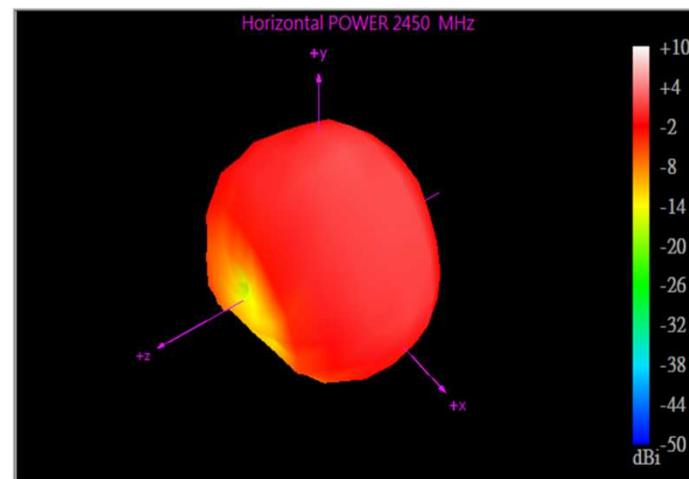
4.2 3D Radiation pattern

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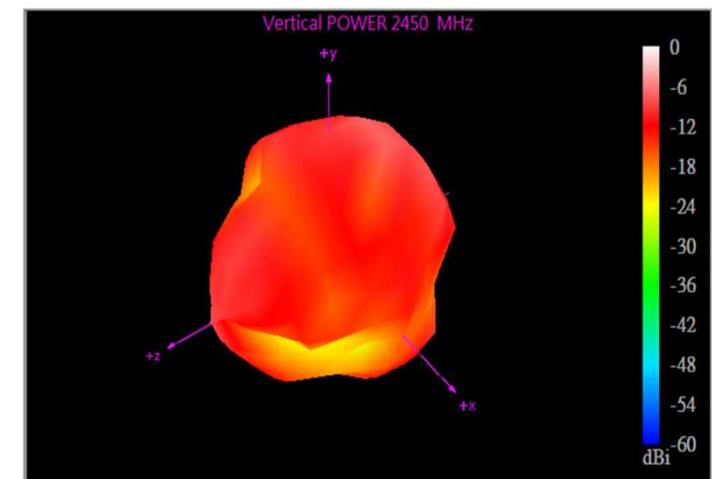
2450 MHz



Total Power



Horizontal Power



Vertical Power



thank you

danke děkuji ありがとう merci gracias
grazie kiitos カドウ köszöni tak tack