

JAPAN MIC

Radio Test Report

Applicant: Tektro Technology Corporation
No. 138, Minzhu St., Xiushui Township, Changhua County
504009, Taiwan (R.O.C.)

Manufacturer: Tektro Technology Corporation
No. 138, Minzhu St., Xiushui Township, Changhua County
504009, Taiwan (R.O.C.)

Product Name: Vistar

Brand Name: TRP

Model No.: RD-C8000E

Family Model No.: RD-G8000E

Model Difference: Only the appearance is different.

Report Number: TERF2312003289E2

Place of Testing SGS Taiwan Ltd. Central RF Lab
No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

Test Result PASS

Classification of Specified Radio Equipment Article 2 Clause 1 Item 19

Date of EUT Received: January 03, 2024

Date of Test: January 03, 2024 ~ February 27, 2024

Issue Date: December 2, 2024

Approved By: _____

Jay Lin

We hereby declare that:

The data presented with this application to be true and correct; and that our testing equipment is regularly serviced and properly calibrated; and We agree to maintain records of data for a minimum of ten (10) years in our laboratory for immediate presentation upon request by the Certification Body.

Measurement was conducted by the following test method:

the test method of Ordinance Concerning Technical Regulations
Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Annex 43 of Article 88, Paragraph 1 or the test method more than equivalent.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2312003289E2	00	Original	Dec. 2, 2024	Candice Li	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
Only the appearance is different and are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	Vistar
Brand Name:	TRP
Model No.:	RD-C8000E
Family Model:	RD-G8000E
Model Difference:	Only the appearance is different.
Hardware Version:	T7
Firmware Version:	V00.00-00
Power Supply:	7.4Vdc from Lithium Polymer Rechargeable Battery

1.2 RF Specification

BLE 1M

Type, frequency of	F1D 2402MHz-2480MHz(Interval of 2MHz 40ch)
Transmittable radio wave	
and declaration output power	0.842 mW

1.3 Antenna Designation

Antenna Type	Part Number	Supplier	Polarization (H or V)	Peak Gain (dBi)
Chip	AT3216-B2R7HAA	ACX	H+V	-0.5

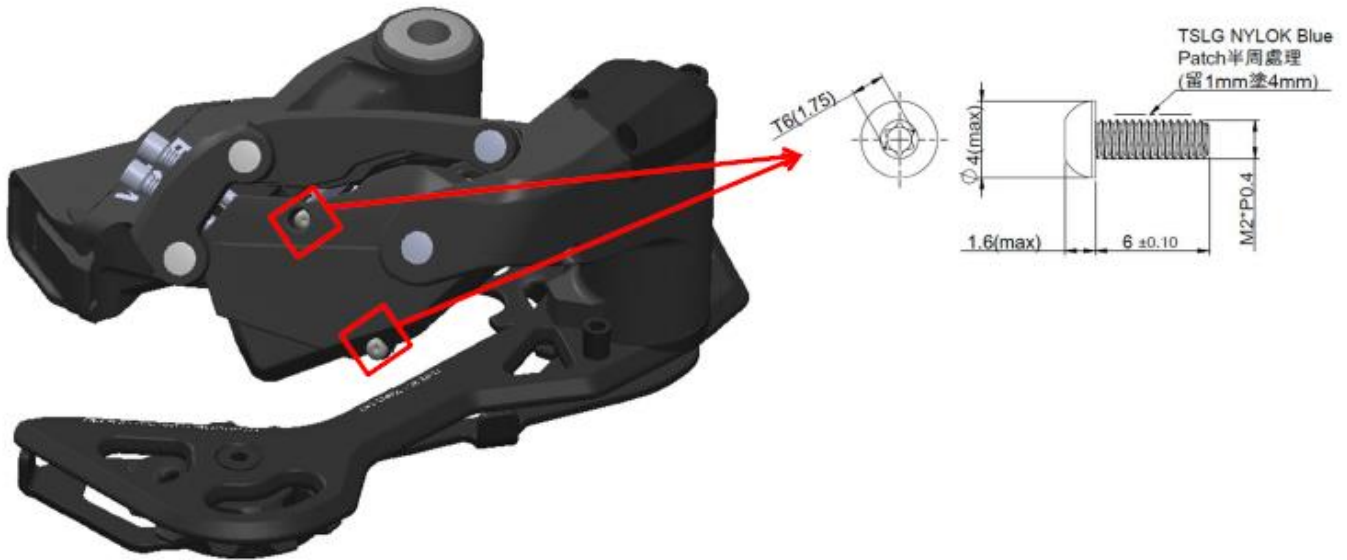
Note: Antenna information is provided by the applicant.

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1.4 Assemble

Two housings use star screws for fastening, which are special screws designed to prevent disassembly. The gearbox side cover also has special AB adhesive applied for additional fixation.



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2 DESCRIPTION OF TEST

2.1 Test Conditions

Environment of Test Room	Temperature	20.2~21.7	°C
	Humidity	52~67	%

Peak Antenna Gain	-0.5	dBi
Declaration Output Power	0.842	mW
Declaration Output Power	-0.745	dBm
E.I.R.P.	-1.245	dBm
Input Voltage	7.4	VDC

Tested Circit Insertion Loss		10.8	dB
Burst	ON TIME	0.000395	sec
	OFF TIME	0.00023	sec
	Ratio	63.20	%
Packet Type (Mode)		BT LE_1M	mode

Test Category ; 2.4GHz Band Wideband Low-Power Data Communication System

2.2 VOLTAGE VARIATION

Voltage Fluctuation Test	Normal Voltage	High Voltage + 10% of Normal Voltage	Low Voltage - 10% of Normal Voltage
Input DC Power	7.40	8.14	6.66
Output DC Power	3.29	3.29	3.29
Voltage Variation (%)	0	0	0

Note: Voltage Variation (%) = (Output High or Low Voltage - Output Normal Voltage)/Output Normal Voltage X 100

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/- 1%. Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

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3 ABOUT UNCERTAINTY OF MEASURED VALUE

*In this test, the influence of an error or uncertainty may be done according to the following factors.

- Bias of a measurement equipment, Change by aging, Attrition, Noise
- Skill and capability of an inspector
- Environment (Temperature, Humidity)
- Dispersion in a EUT (Equipment Under Test)
- Uncertainty of calibration of a measurement equipment

Therefore, Synthetic uncertainty is calculated using "k=2" of coverage factor, and about 95% of confidence level shall be obtained.

In consideration of the above, it judged as follows.

JUDGE	Measured value and Standard limit value	
PASS	Case1	Standard limit value +uncertainty -uncertainty Measured value *Even if it takes uncertainty into consideration, a standard limit value is fulfilled.
	Case2	*Although measured value is in a standard limit value, a limit value won't be fulfilled if uncertainty is taken into consideration.
FAIL	Case3	*Although measured value exceeds a standard limit value, a limit value will be fulfilled if uncertainty is taken into consideration.
	Case4	*Even if it takes uncertainty into consideration, a standard limit value isn't fulfilled.

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4 MEASUREMENT EQUIPMENT LIST

Conducted Emission Test Site: Conducted F						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	Calibration Authority	Cal. Method
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/29/2023	ETC	C)
Power Meter	Anritsu	ML2496A	1804002	04/26/2023	ETC	C)
Power Sensor	Anritsu	MA2411B	1726105	04/26/2023	ETC	C)
Power Sensor	Anritsu	MA2411B	1726106	04/26/2023	ETC	C)
DC Power Supply	Gwinstek	SPD-3606	GEV923152	05/10/2023	ETC	C)
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N/A	N/A
Attenuator	Woken	WATT-218FS-10	RF16	11/15/2023	SGS	C)
Attenuator	Woken	WATT-218FS-10	RF22	11/15/2023	SGS	C)
DC Block	PASTERNAK	PE8210	RF153	11/15/2023	SGS	C)
Coaxial Cables	Woken	00100A1F2A196C	RF53	11/15/2023	SGS	C)

Note 1: The validity of measurement equipment is one year from the first day of the following month of the calibration date.

(e.g. If the calibration date is December 15th, 2014, measurement equipment can be used from December 15th, 2014 to December 31st, 2015.)

Note 2: Calibration Method

- a): Calibration conducted by the National Institute of Information and Communications Technology(NICT)(hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)
- b): Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
- c) : Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph(1)
- d) : Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)

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5 TEST RESULTS:

BLE 1M

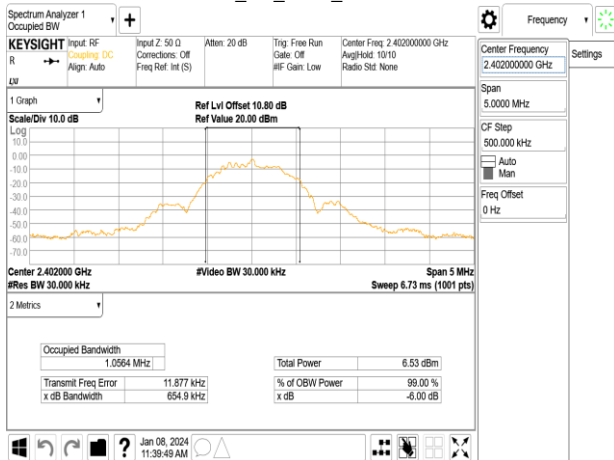
Measurement Frequency			MHz	2402	2442	2480	Limit	Result	NOTES
Channel Number			Ch.	0	20	39	-----	-----	
Reading Frequency			MHz	2402.005	2442.005	2480.005	-----	-----	
Frequency Tolerance			ppm	2.08160	2.04750	2.01613	-50≤x≤+50	PASS	
Occupied Bandwidth			MHz	1.0564	1.0576	1.0603	≤26 MHz	PASS	
Spread Bandwidth			MHz	-	-	-	-----	-----	-
RF Output Power			mW	0.730	0.772	0.842	≤10 mW	PASS	
			dBm	-1.3642	-1.1244	-0.7454	-----		
RF Output Power Tolerance			%	-13.34	-8.35	-0.04	≤20	PASS	
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.016904	0.022491	0.019999	≤2.5uW/MHz	PASS		
		dBm/MHz	-47.72	-46.48	-46.99	-----			
		MHz	2149.30	2307.10	2116.70	-----			
	2387-2400MHz	μW/MHz	0.907821	0.012162	0.014060	≤25uW/MHz	PASS		
		dBm/MHz	-30.42	-49.15	-48.52	-----			
		MHz	2400.00	2398.09	2388.02	-----			
	2483.5-2496.5MHz	μW/MHz	0.013490	0.014928	0.169824	≤25uW/MHz	PASS		
		dBm/MHz	-48.70	-48.26	-37.70	-----			
		MHz	2493.54	2490.92	2483.63	-----			
	2496.5 - 12.5GHz	μW/MHz	0.044978	0.038994	0.027797	≤2.5uW/MHz	PASS		
		dBm/MHz	-43.47	-44.09	-45.56	-----			
		MHz	4804.50	4883.50	4960.50	-----			
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW/MHz	0.0062	0.0055	0.0063	≤ 4 nW	PASS		
		dBm/MHz	-82.06	-82.63	-82.03	-----			
		MHz	826.30	853.30	801.40	-----			
	1 - 12.5GHz	nW/MHz	0.2344	0.2535	0.2477	≤ 20 nW	PASS		
		dBm/MHz	-66.30	-65.96	-66.06	-----			
		MHz	3811.00	3705.00	3804.00	-----			
Interference Prevention Function			-----	Good				PASS	

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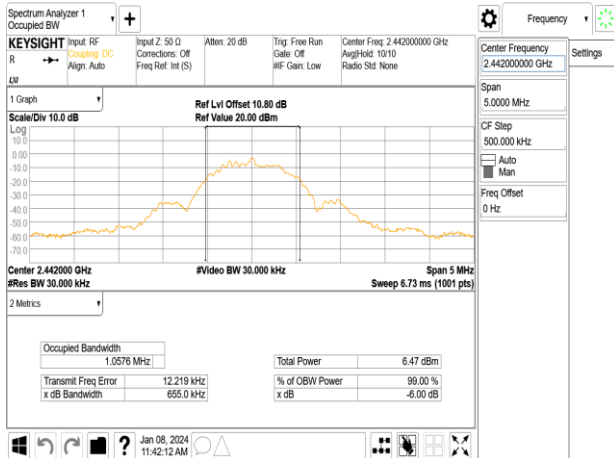
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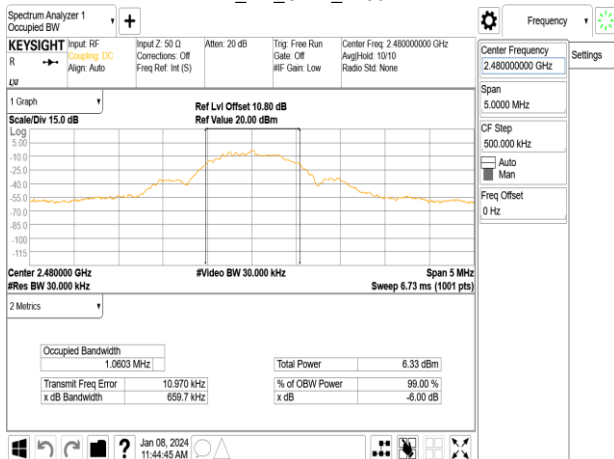
BLE_1M_OBW_2402MHz



BLE_1M_OBW_2442MHz



BLE_1M_OBW_2480MHz



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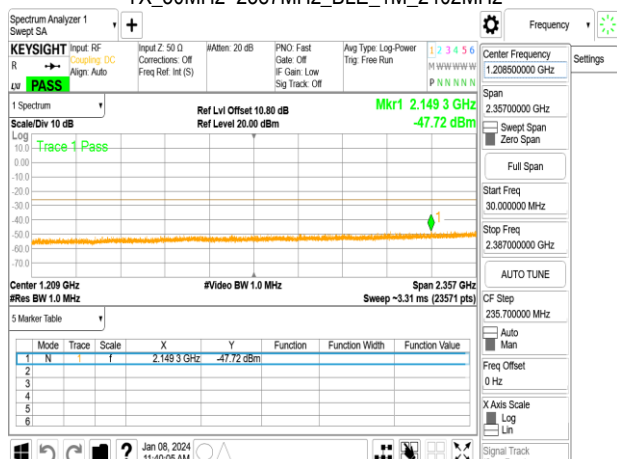
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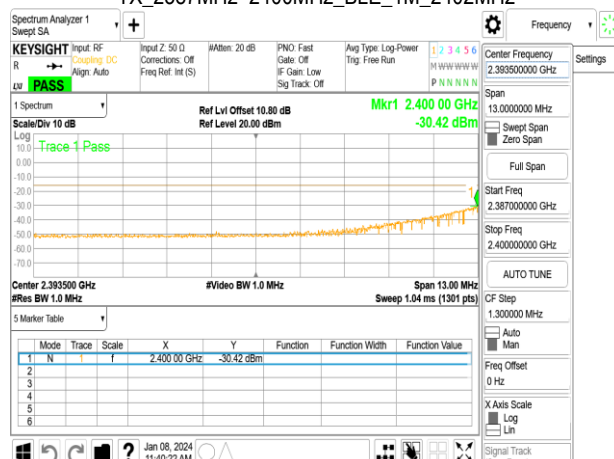
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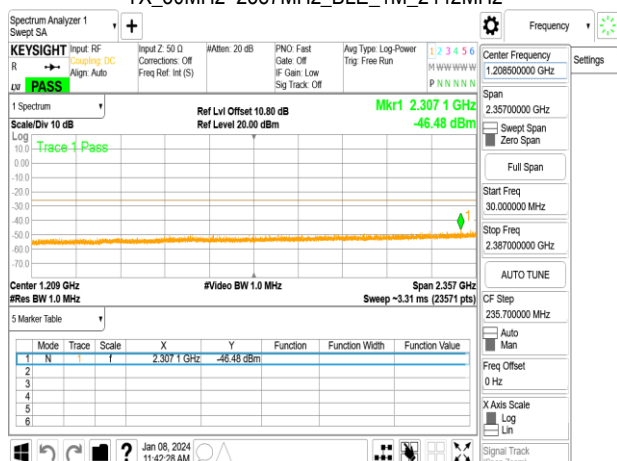
TX_30MHz~2387MHz_BLE_1M_2402MHz



TX_2387MHz~2400MHz_BLE_1M_2402MHz



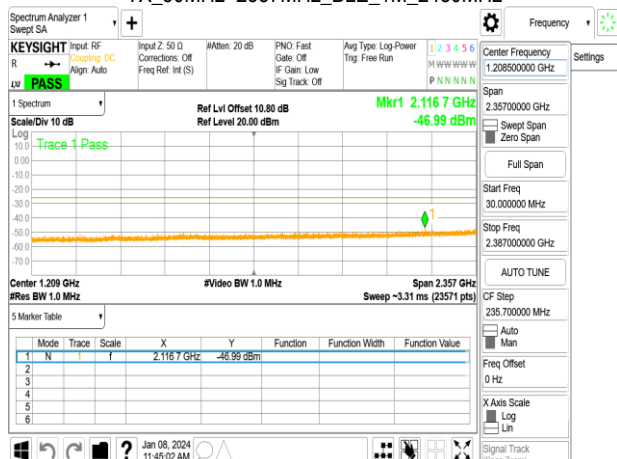
TX_30MHz~2387MHz_BLE_1M_2442MHz



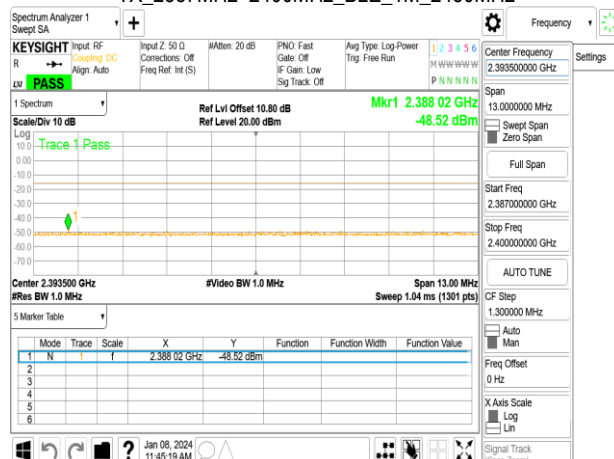
TX_2387MHz~2400MHz_BLE_1M_2442MHz



TX_30MHz~2387MHz_BLE_1M_2480MHz



TX_2387MHz~2400MHz_BLE_1M_2480MHz



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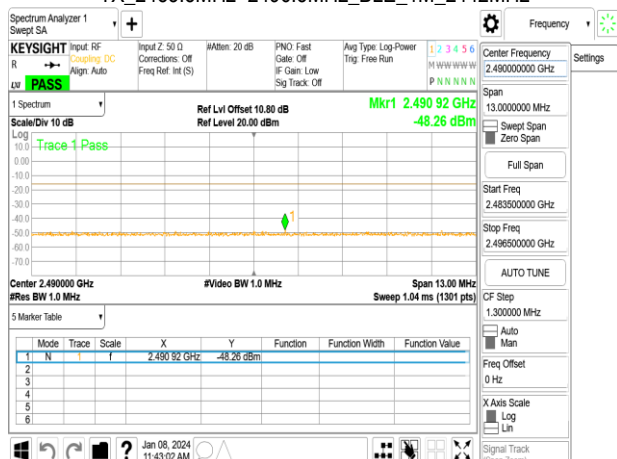
TX_2483.5MHz~2496.5MHz_BLE_1M_2402MHz



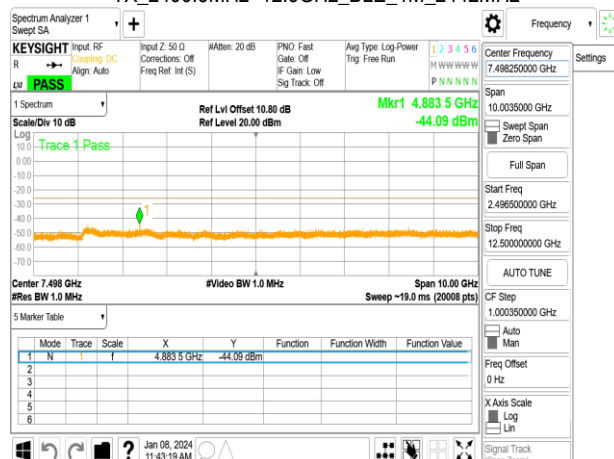
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TX_2483.5MHz~2496.5MHz_BLE_1M_2442MHz



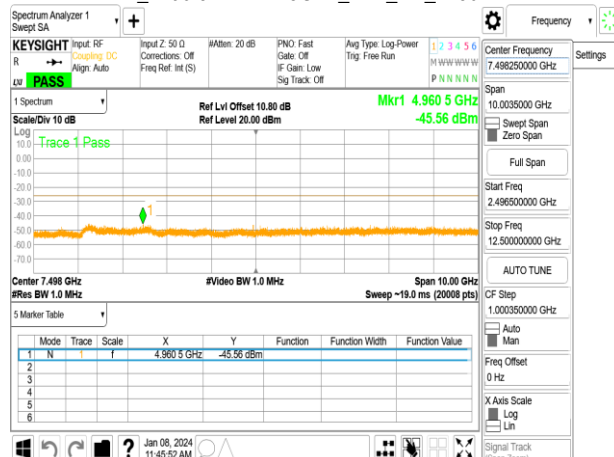
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TX_2483.5MHz~2496.5MHz_BLE_1M_2480MHz



TX_2496.5MHz~12.5GHz_BLE_1M_2480MHz

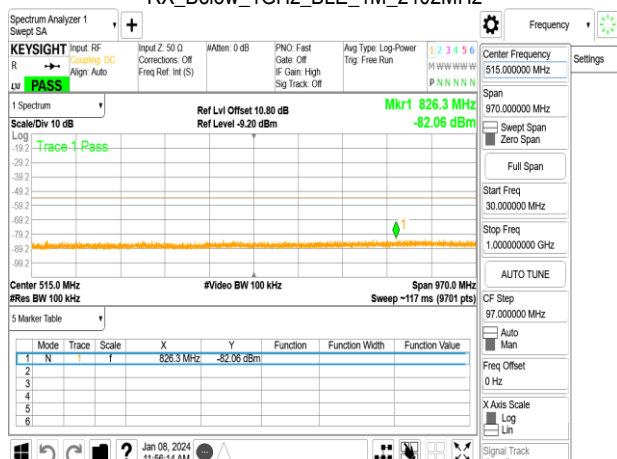


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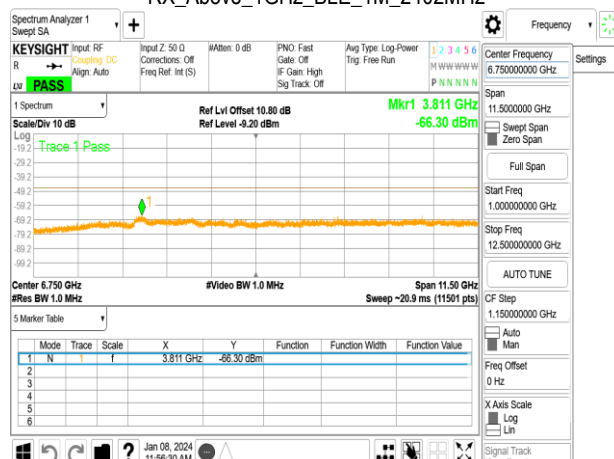
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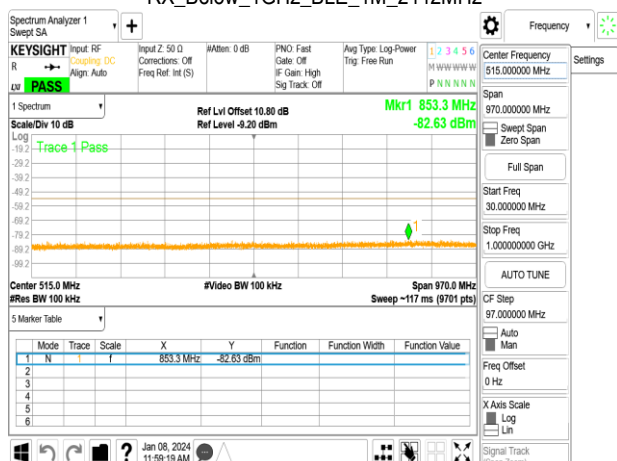
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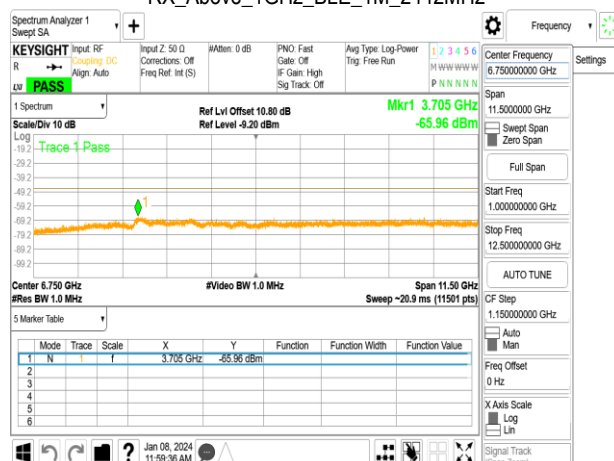
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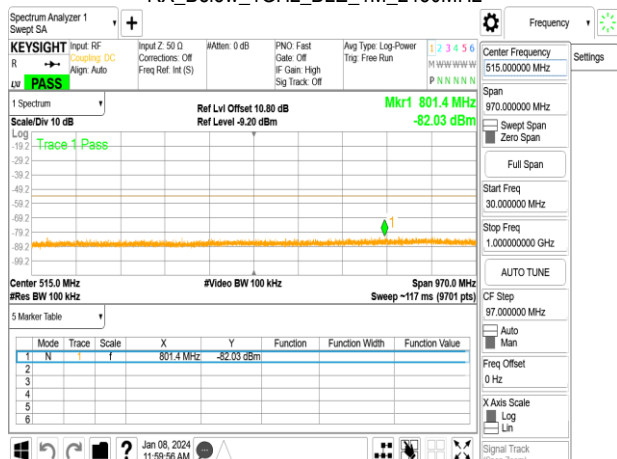
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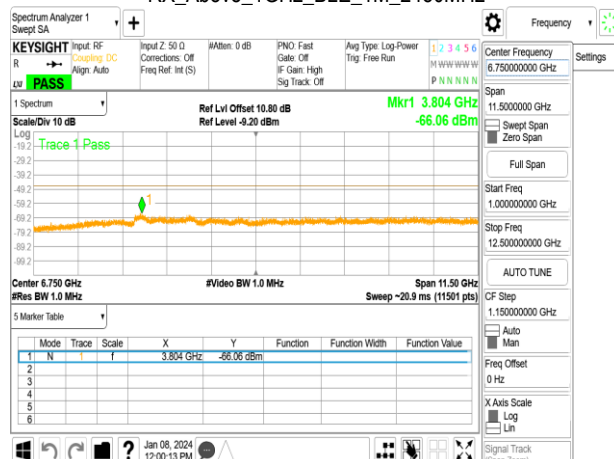
RX_Above_1GHz_BLE_1M_2442MHz



RX_Below_1GHz_BLE_1M_2480MHz



RX_Above_1GHz_BLE_1M_2480MHz



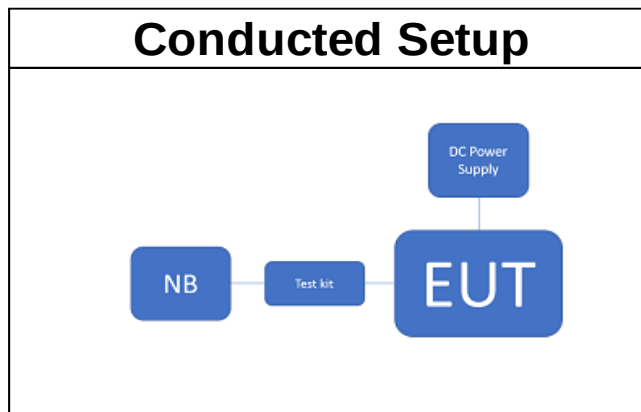
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6 TEST SET UP

6.1 Setup Diagram



~ End of Report ~

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