

JAPAN MIC

Radio Test Report

Applicant: Murata Electronics North America
3330 Cumberland Blvd SE #700, Atlanta, GA 30339

Manufacturer: Murata Electronics North America
3330 Cumberland Blvd SE #700, Atlanta, GA 30339

Product Name: LBMA0ZZ2NR

Brand Name: Murata Electronics North America

Model No.: LBMA0ZZ2NR

Report Number: TERF2601000205ER

Place of Testing SGS Taiwan Ltd. Central RF Lab
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803.

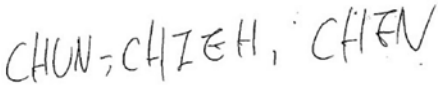
Test Result PASS

Classification of Specified Radio Equipment Article 2 Clause 1 Item 19

Date of EUT Received: January 20, 2026

Date of Test: January 21, 2026 ~ March 23, 2026

Issue Date: April 23, 2026

Approved By: 

Chun Chieh Chen

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
TERF2601000205ER	00	Original	April 14, 2026	Autumn Chiu	
TERF2601000205ER	01	Revised Chapter 1.2 & 2.1 and 5	April 23, 2026	Autumn Chiu	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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CONTENTS

1	DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	4
2	DESCRIPTION OF TEST	6
3	ABOUT UNCERTAINTY OF MEASURED VALUE.....	10
4	MEASUREMENT EQUIPMENT LIST	11
5	TEST RESULTS:	12
6	TEST SET UP	31

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	LBMA0ZZ2NR
Brand Name:	Murata Electronics North America
Model No.:	LBMA0ZZ2NR
Hardware Version:	1
Firmware Version:	1
Power Supply:	3.3Vdc

1.2 RF Specification

BLE 1M

Type, frequency of

F1D 2402MHz-2480MHz(Interval of 2MHz 40ch)

Transmittable radio wave
and declaration output power

4.426 mW

BLE 2M

Type, frequency of

F1D 2402MHz-2480MHz(Interval of 2MHz 40ch)

Transmittable radio wave
and declaration output power

2.613 mW

BLE 125k

Type, frequency of

F1D 2402MHz-2480MHz(Interval of 2MHz 40ch)

Transmittable radio wave
and declaration output power

4.272 mW

BLE 500k

Type, frequency of

F1D 2402MHz-2480MHz(Interval of 2MHz 40ch)

Transmittable radio wave
and declaration output power

4.341 mW

Proprietary mode

Type, frequency of

F1D 2403MHz-2475MHz(Interval of 2MHz 75ch)

Transmittable radio wave
and declaration output power

3.876 mW

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1.3 Antenna Designation

Antenna Type	Part Number	Supplier	Polarization (H or V)	Peak Gain (dBi)
dipole	146187	Molex	H+V	3.2
dipole	146153	Molex	H+V	3.2
dipole	219611	Molex	H+V	2.67
dipole	WT32D1-KX	Unictron	H+V	3
dipole	AA258	Unictron	H+V	0.9
dipole	TA-38B-A-W01	Unictron	H+V	2.61
dipole	TA-6B-A-WE01	Unictron	H+V	2.23
dipole	FXP830.07.0100C	Taoglas	H+V	2.5
dipole	GW.48.A151	Taoglas	H+V	1.82
dipole	GW.40.2153	Taoglas	H+V	3.15
dipole	GW.52.A153	Taoglas	H+V	2.93
dipole	SRF2W012	Antenova	H+V	3
dipole	STDANTEMD-013	Sansei	H+V	1.9
dipole	EMF2471A3S	Laird	H+V	2.4
dipole	1001932FT	KAVX	H+V	2.5
dipole	1001932PT	KAVX	H+V	2.03
dipole	W3P35x8W04	KAVX	H+V	2.3
dipole	W24P-U	Inventek	H+V	3.58
dipole	W2.4-5P-U	Inventek	H+V	3.73
dipole	2344657	TE	H+V	1.1

Note:

The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

1.4 Assemble

The LBMA0ZZ2NR module is contained in a conductive and shielded resin enclosure. This resin material completely encapsulates the circuitry in the module. This resin coating is rigid and strong and cannot be removed without destroying the module.

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2 DESCRIPTION OF TEST

2.1 Test Conditions

Environment of Test Room	Temperature	22-26	°C
	Humidity	55-60	%

Peak Antenna Gain	3.73	dBi
Declaration Output Power	4.426	mW
Declaration Output Power	6.460	dBm
E.I.R.P.	10.190	dBm
Input Voltage	3.3	VDC

Tested Circuit Insertion Loss		11	dB
Burst	ON TIME	0.00039	sec
	OFF TIME	0.000235	sec
	Ratio	62.40	%
Packet Type (Mode)		BT LE_1M	mode

Test Category ;	2.4GHz Band Wideband Low-Power Data Communication System
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Environment of Test Room	Temperature	22-26	°C
	Humidity	55-60	%

Peak Antenna Gain	3.73	dBi
Declaration Output Power	2.613	mW
Declaration Output Power	4.171	dBm
E.I.R.P.	7.901	dBm
Input Voltage	3.3	VDC

Tested Circuit Insertion Loss		11	dB
Burst	ON TIME	0.000205	sec
	OFF TIME	0.00042	sec
	Ratio	32.80	%
Packet Type (Mode)		BT LE_2M	mode

Test Category ;	2.4GHz Band Wideband Low-Power Data Communication System
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Environment of Test Room	Temperature	22-26	°C
	Humidity	55-60	%

Peak Antenna Gain	3.73	dBi
Declaration Output Power	4.272	mW
Declaration Output Power	6.306	dBm
E.I.R.P.	10.036	dBm
Input Voltage	3.3	VDC

Tested Circuit Insertion Loss		11	dB
Burst	ON TIME	0.03105	sec
	OFF TIME	0.00645	sec
	Ratio	82.80	%
Packet Type (Mode)		BT LE_125k	mode

Test Category ;	2.4GHz Band Wideband Low-Power Data Communication System
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Environment of Test Room	Temperature	22-26	°C
	Humidity	55-60	%

Peak Antenna Gain	3.73	dBi
Declaration Output Power	4.341	mW
Declaration Output Power	6.376	dBm
E.I.R.P.	10.106	dBm
Input Voltage	3.3	VDC

Tested Circuit Insertion Loss		11	dB
Burst	ON TIME	0.01078	sec
	OFF TIME	0.00798	sec
	Ratio	57.46	%
Packet Type (Mode)		BT LE_500k	mode

Test Category ;	2.4GHz Band Wideband Low-Power Data Communication System
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Environment of Test Room	Temperature	22-26	°C
	Humidity	55-60	%

Peak Antenna Gain	3.73	dBi
Declaration Output Power	3.876	mW
Declaration Output Power	5.883	dBm
E.I.R.P.	9.613	dBm
Input Voltage	3.3	VDC

Tested Circuit Insertion Loss		11	dB
Burst	ON TIME	0.03	sec
	OFF TIME	0	sec
	Ratio	100.00	%
Packet Type (Mode)		Proprietary	mode

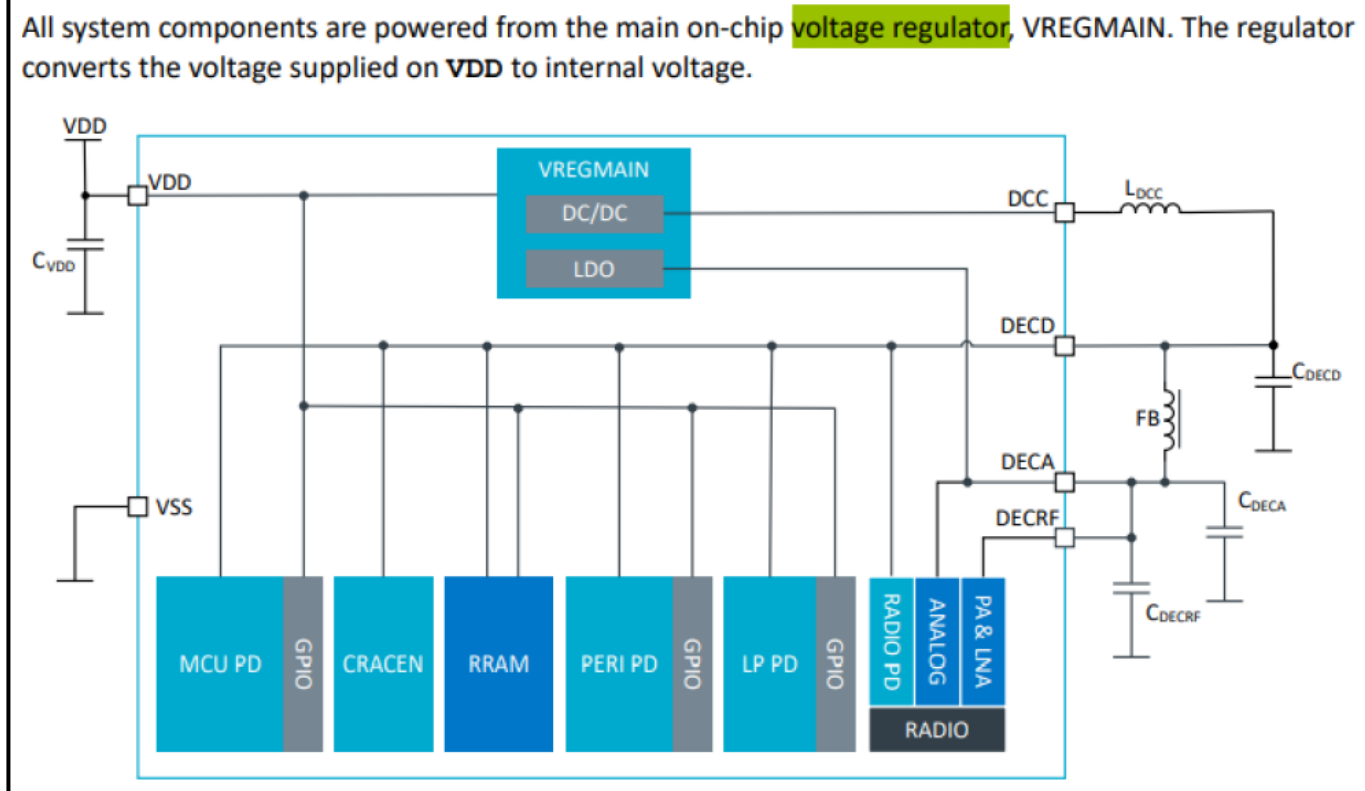
Test Category ; 2.4GHz Band Wideband Low-Power Data Communication System
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2.2 VOLTAGE VARIATION

The module is equipped with an internal voltage regulation function. The block diagram / schematic of the power supply section is shown below.



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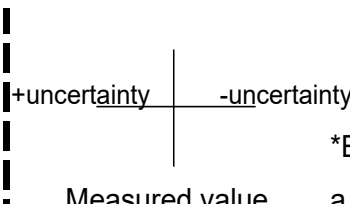
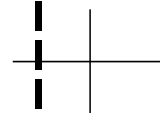
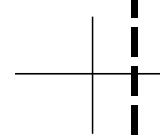
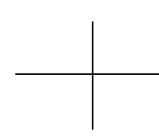
3 ABOUT UNCERTAINTY OF MEASURED VALUE

*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	 *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 1						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	Calibration Authority	Cal. Method
DC Block	Mini-Circuits	BLK-18-S+	10	12/07/2025	SGS	C)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/24/2025	ETC	C)
Power Meter	Anritsu	ML2496A	2138003	10/09/2025	ETC	C)
Power Sensor	Anritsu	MA2411B	1911393	10/09/2025	ETC	C)
Power Sensor	Anritsu	MA2411B	1911394	10/09/2025	ETC	C)
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N/A	N/A

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	2480	Limit	Result	NOTES
Channel Number		Ch.	0	39	-----	-----	
Reading Frequency		MHz	2402.007	2480.007	-----	-----	
Frequency Tolerance		ppm	2.91424	2.82258	-50 ≤ x ≤ +50	PASS	
Occupied Bandwidth		MHz	1.0617	1.0670	≤ 26 MHz	PASS	
RF Output Power		mW	4.132	4.426	≤ 10 mW	PASS	
		dBm	6.162	6.460	-----		
RF Output Power Tolerance		%	-6.64	0.01	≤ 20	PASS	
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.023174	0.020893	≤ 2.5uW/MHz	PASS	
		dBm/MHz	-46.35	-46.80	-----		
		MHz	2370.20	2377.90	-----		
	2387-2400MHz	μW/MHz	0.283139	0.009016	≤ 25uW/MHz	PASS	
		dBm/MHz	-35.48	-50.45	-----		
		MHz	2400.00	2397.00	-----		
	2483.5-2496.5MHz	μW/MHz	0.015740	0.897429	≤ 25uW/MHz	PASS	
		dBm/MHz	-48.03	-30.47	-----		
		MHz	2489.88	2483.50	-----		
	2496.5 - 12.5GHz	μW/MHz	0.026424	0.045394	≤ 2.5uW/MHz	PASS	
		dBm/MHz	-45.78	-43.43	-----		
		MHz	3828.00	7440.50	-----		
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW	0.0780	0.0877	≤ 4 nW	PASS	
		dBm/100kHz	-71.08	-70.57	-----		
		MHz	128.00	128.00	-----		
	1 - 12.5GHz	nW	3.7239	0.9204	≤ 20 nW	PASS	
		dBm/MHz	-54.29	-60.36	-----		
		MHz	2426.00	2449.00	-----	-----	
Interference Prevention Function		-----	Good			PASS	

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BLE 2M

Measurement Frequency		MHz	2402	2480	Limit	Result	NOTES
Channel Number		Ch.	0	39	----	----	
Reading Frequency		MHz	2402.007	2480.007	----	----	
Frequency Tolerance		ppm	2.91424	2.82258	-50 ≤ x ≤ +50	PASS	
Occupied Bandwidth		MHz	2.0799	2.0837	≤ 26 MHz	PASS	
RF Output Power		mW	2.613	2.528	≤ 10 mW	PASS	
		dBm	4.171	4.028	----		
RF Output Power Tolerance		%	0.01	-3.24	≤ 20	PASS	
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.018365	0.017579	≤ 2.5uW/MHz	PASS	
		dBm/MHz	-47.36	-47.55	----		
		MHz	2385.90	2294.60	----		
	2387-2400MHz	μW/MHz	5.546257	0.012735	≤ 25uW/MHz	PASS	
		dBm/MHz	-22.56	-48.95	----		
		MHz	2400.00	2399.74	----		
	2483.5-2496.5MHz	μW/MHz	0.013459	0.762079	≤ 25uW/MHz	PASS	
		dBm/MHz	-48.71	-31.18	----		
		MHz	2488.78	2483.62	----		
	2496.5 - 12.5GHz	μW/MHz	0.027990	0.027353	≤ 2.5uW/MHz	PASS	
		dBm/MHz	-45.53	-45.63	----		
		MHz	3785.00	7438.50	----		
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW	0.1047	0.1045	≤ 4 nW	PASS	
		dBm/100kHz	-69.80	-69.81	----		
		MHz	128.00	128.00	----		
	1 - 12.5GHz	nW	4.4055	0.6223	≤ 20 nW	PASS	
		dBm/MHz	-53.56	-62.06	----		
		MHz	1767.00	5298.00	----	----	
Interference Prevention Function		----	Good			PASS	

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BLE 125k

Measurement Frequency		MHz	2402	2480	Limit	Result	NOTES	
Channel Number		Ch.	0	39	-----	-----		
Reading Frequency		MHz	2402.005	2480.005	-----	-----		
Frequency Tolerance		ppm	2.08160	2.01613	-50 ≤ x ≤ +50	PASS		
Occupied Bandwidth		MHz	1.0726	1.0796	≤ 26 MHz	PASS		
RF Output Power		mW	4.222	4.272	≤ 10 mW	PASS		
		dBm	6.256	6.306	-----			
RF Output Power Tolerance		%	-1.17	0.00	≤ 20	PASS		
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.014723	0.019275	≤ 2.5uW/MHz	PASS		
		dBm/MHz	-48.32	-47.15	-----			
		MHz	2336.50	2380.00	-----			
	2387-2400MHz	μW/MHz	11.748976	0.013646	≤ 25uW/MHz	PASS		
		dBm/MHz	-19.30	-48.65	-----			
		MHz	2399.84	2399.54	-----			
	2483.5-2496.5MHz	μW/MHz	0.016788	0.685488	≤ 25uW/MHz	PASS		
		dBm/MHz	-47.75	-31.64	-----			
		MHz	2483.98	2483.77	-----			
	2496.5 - 12.5GHz	μW/MHz	0.028973	0.048978	≤ 2.5uW/MHz	PASS		
		dBm/MHz	-45.38	-43.10	-----			
		MHz	7205.50	7439.50	-----			
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)		Under 1GHz	nW	0.0851	0.0805	≤ 4 nW	PASS	
			dBm/100kHz	-70.70	-70.94	-----		
			MHz	128.00	128.00	-----		
		1 - 12.5GHz	nW	2.7669	0.7430	≤ 20 nW	PASS	
			dBm/MHz	-55.58	-61.29	-----		
		MHz	2454.00	2448.00	-----	-----		
Interference Prevention Function		-----	Good			PASS		

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BLE 500k

Measurement Frequency		MHz	2402	2480	Limit	Result	NOTES	
Channel Number		Ch.	0	39	-----	-----		
Reading Frequency		MHz	2402.005	2480.005	-----	-----		
Frequency Tolerance		ppm	2.08160	2.01613	-50 ≤ x ≤ +50	PASS		
Occupied Bandwidth		MHz	1.0386	1.0434	≤ 26 MHz	PASS		
RF Output Power		mW	4.341	4.260	≤ 10 mW	PASS		
		dBm	6.376	6.294	-----			
RF Output Power Tolerance		%	0.00	-1.86	≤ 20	PASS		
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.022803	0.018535	≤ 2.5uW/MHz	PASS		
		dBm/MHz	-46.42	-47.32	-----			
		MHz	2386.40	2282.70	-----		-----	
	2387-2400MHz	μW/MHz	0.054828	0.016444	≤ 25uW/MHz	PASS		
		dBm/MHz	-42.61	-47.84	-----			
		MHz	2399.96	2396.24	-----		-----	
	2483.5-2496.5MHz	μW/MHz	0.013428	0.255859	≤ 25uW/MHz	PASS		
		dBm/MHz	-48.72	-35.92	-----			
		MHz	2491.30	2483.92	-----		-----	
	2496.5 - 12.5GHz	μW/MHz	0.028774	0.045920	≤ 2.5uW/MHz	PASS		
		dBm/MHz	-45.41	-43.38	-----			
		MHz	3848.50	7441.00	-----		-----	
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)		Under 1GHz	nW	0.0738	0.0838	≤ 4 nW	PASS	
			dBm/100kHz	-71.32	-70.77	-----		
			MHz	128.00	128.00	-----		-----
		1 - 12.5GHz	nW	0.7194	2.8840	≤ 20 nW	PASS	
			dBm/MHz	-61.43	-55.40	-----		
MHz	5798.00		2454.00	-----	-----			
Interference Prevention Function		-----	Good			PASS		

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Proprietary mode

Measurement Frequency		MHz	2403	2475	Limit	Result	NOTES
Channel Number		Ch.	0	39	-----	-----	
Reading Frequency		MHz	2403.005	2475.005	-----	-----	
Frequency Tolerance		ppm	2.08073	2.02020	-50 ≤ x ≤ +50	PASS	
Occupied Bandwidth		MHz	4.2173	4.2710	≤ 26 MHz	PASS	
RF Output Power		mW	3.876	3.859	≤ 10 mW	PASS	
		dBm	5.883	5.865	-----		
RF Output Power Tolerance		%	0.01	-0.43	≤ 20	PASS	
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.029242	0.017338	≤ 2.5uW/MHz	PASS	
		dBm/MHz	-45.34	-47.61	-----		
		MHz	2289.50	2378.80	-----		
	2387-2400MHz	μW/MHz	0.608135	0.012560	≤ 25uW/MHz	PASS	
		dBm/MHz	-32.16	-49.01	-----		
		MHz	2399.99	2390.76	-----		
	2483.5-2496.5MHz	μW/MHz	0.015136	0.052481	≤ 25uW/MHz	PASS	
		dBm/MHz	-48.20	-42.80	-----		
		MHz	2486.54	2485.09	-----		
	2496.5 - 12.5GHz	μW/MHz	0.027227	0.037239	≤ 2.5uW/MHz	PASS	
		dBm/MHz	-45.65	-44.29	-----		
		MHz	12020.00	7428.50	-----		
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW	0.0564	0.0581	≤ 4 nW	PASS	
		dBm/100kHz	-72.49	-72.36	-----		
		MHz	128.00	128.00	-----		
	1 - 12.5GHz	nW	0.1950	6.2907	≤ 20 nW	PASS	
		dBm/MHz	-67.10	-52.01	-----		
MHz		2446.00	5179.00	-----			
Interference Prevention Function		-----	Good			PASS	

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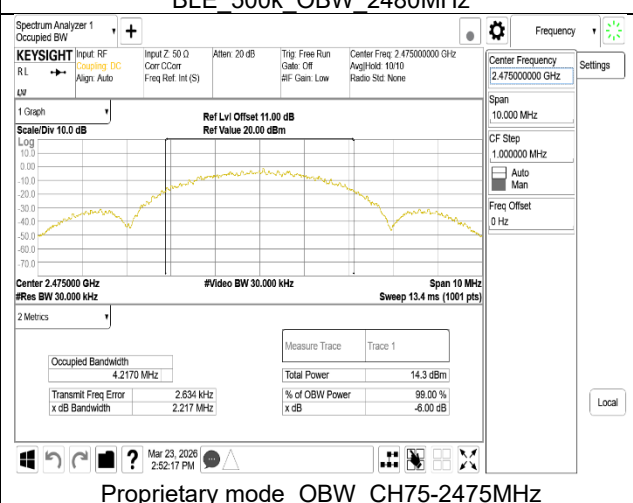
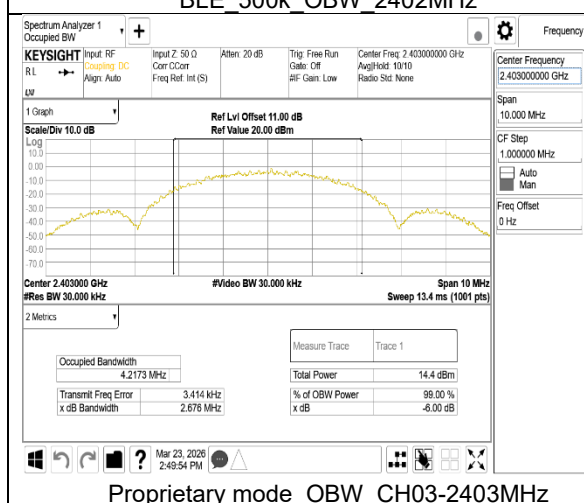
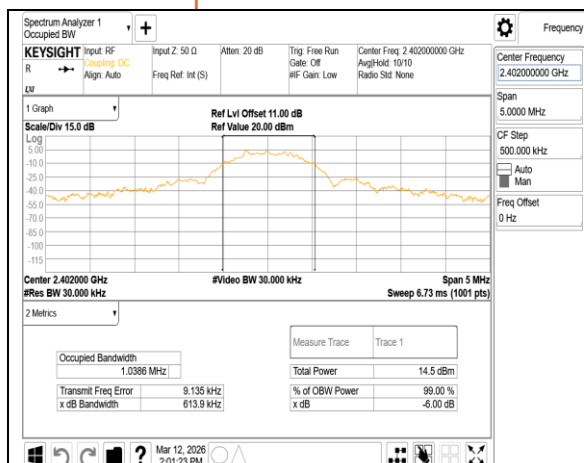
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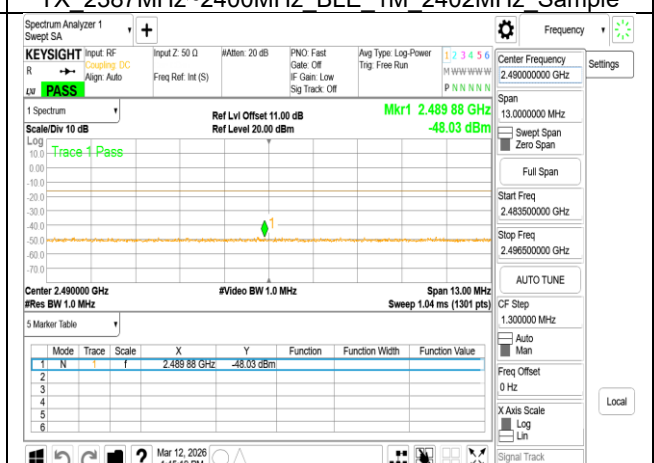
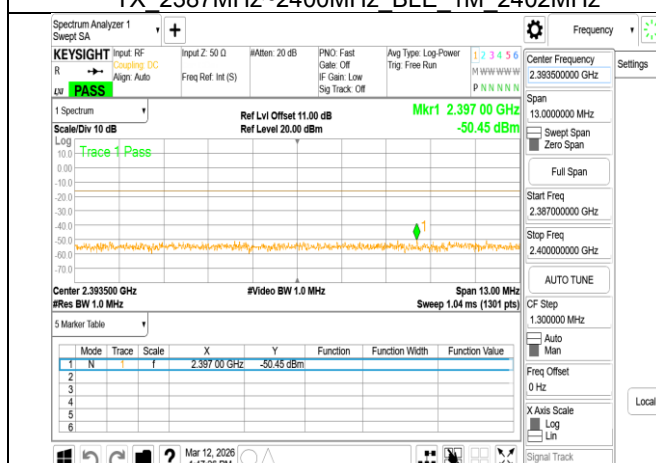
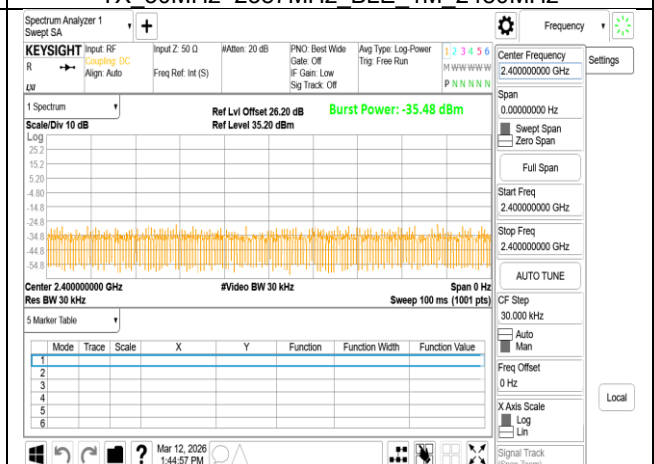
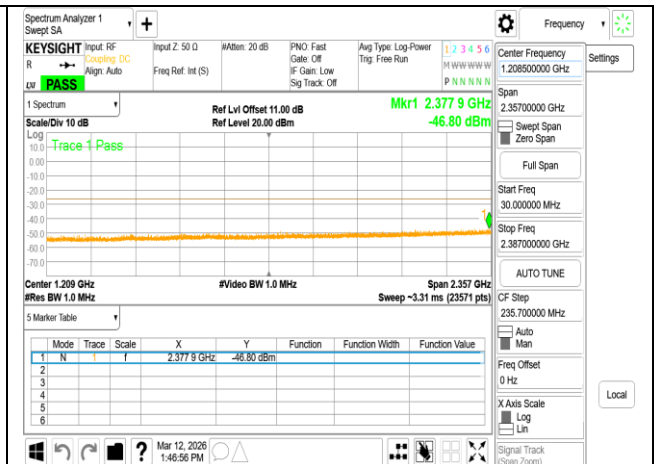
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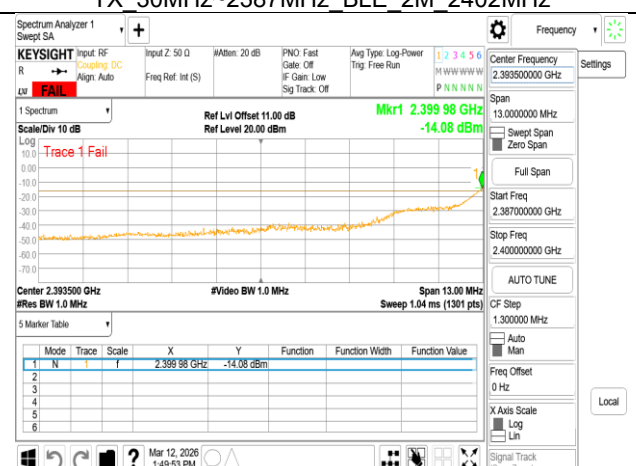
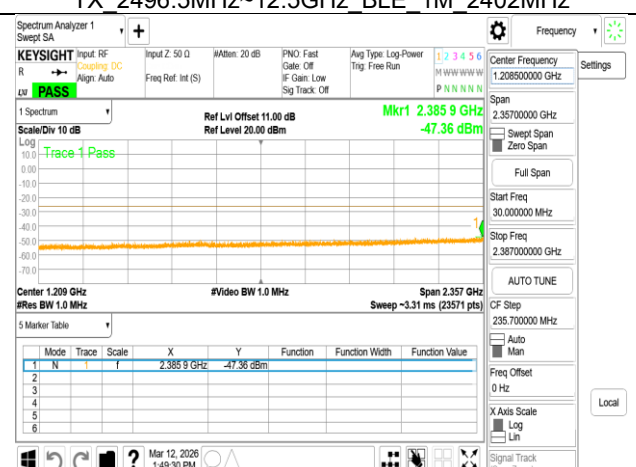
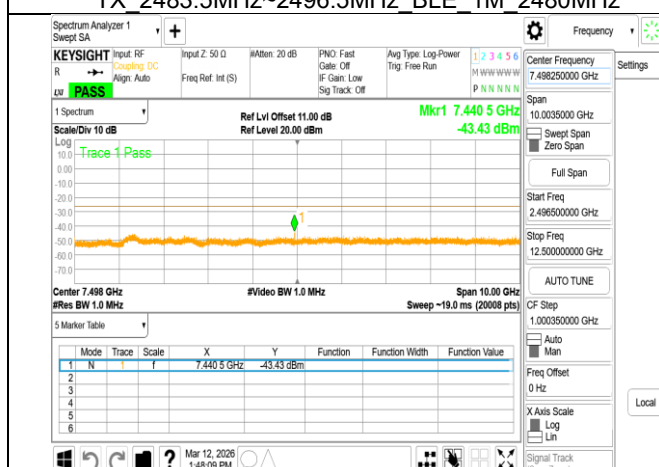
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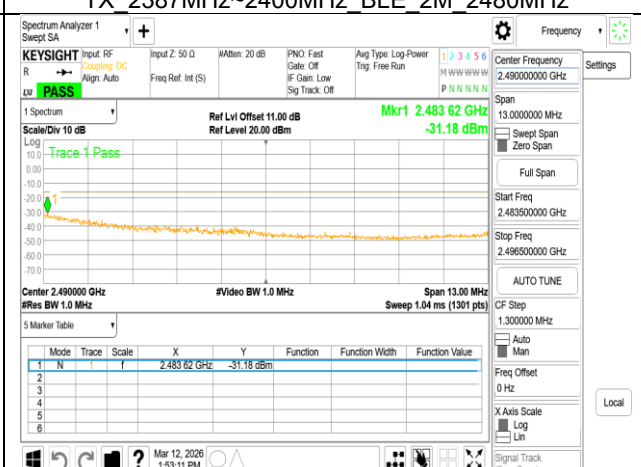
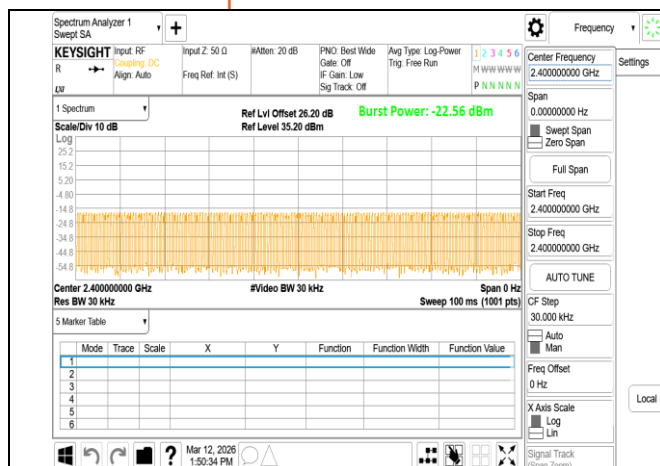
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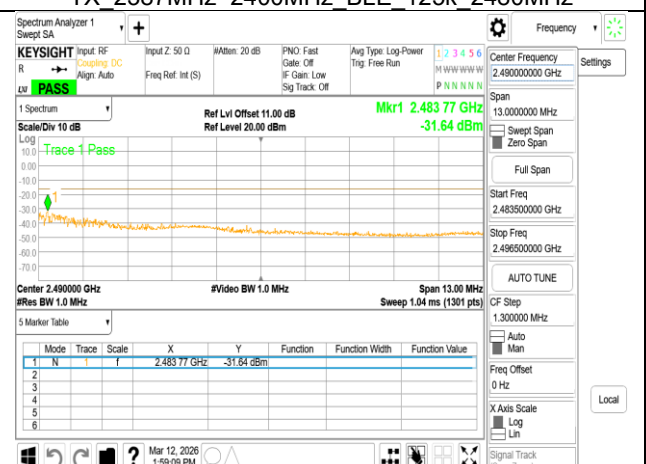
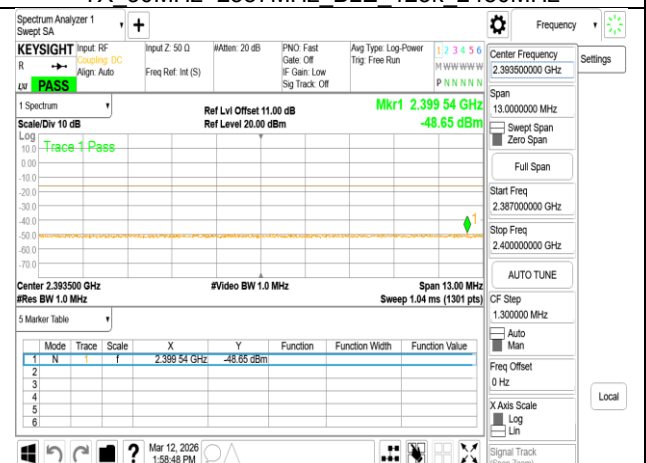
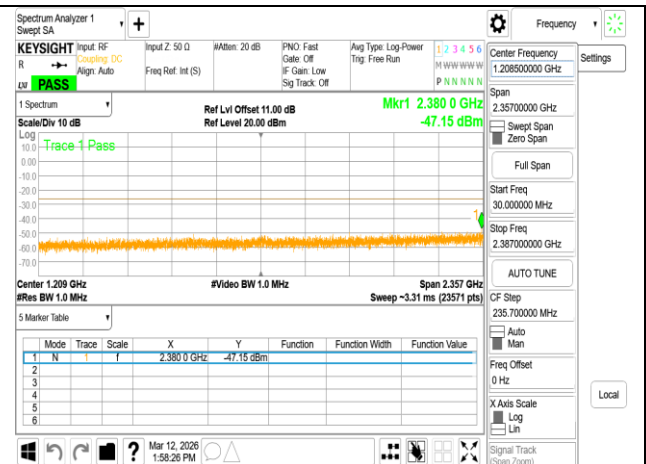
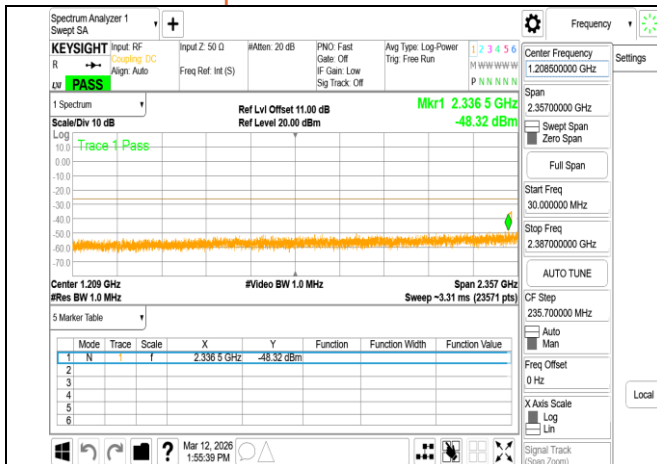
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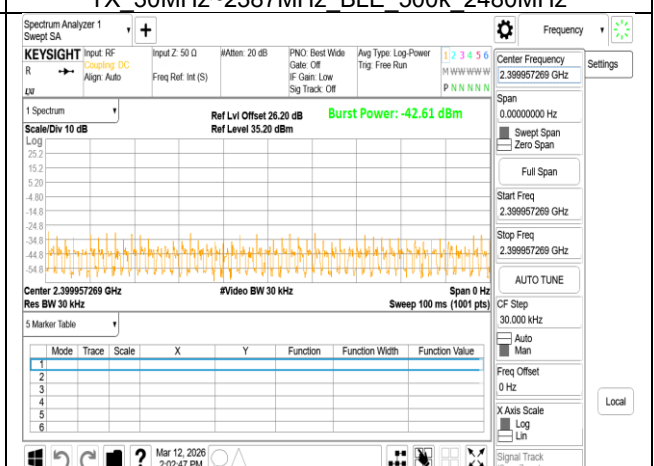
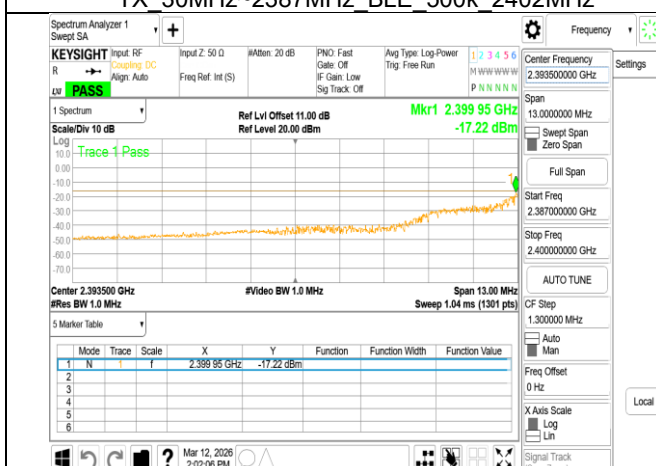
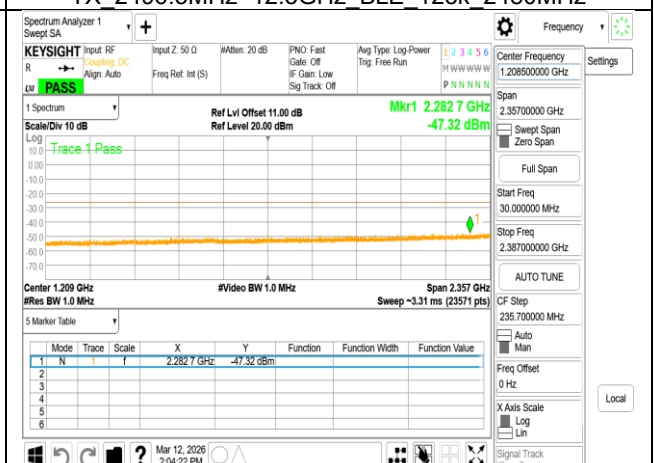
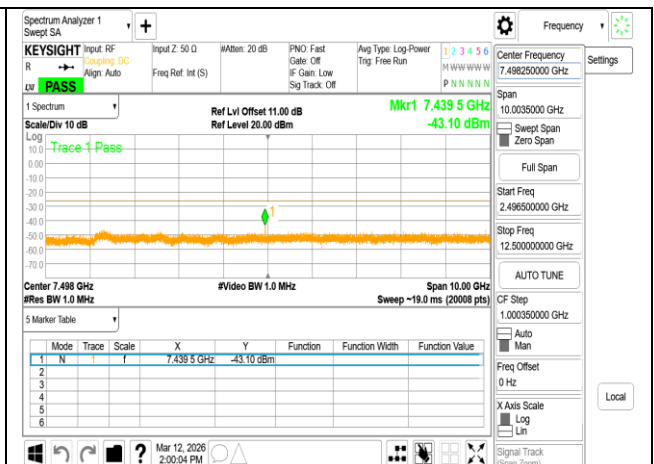
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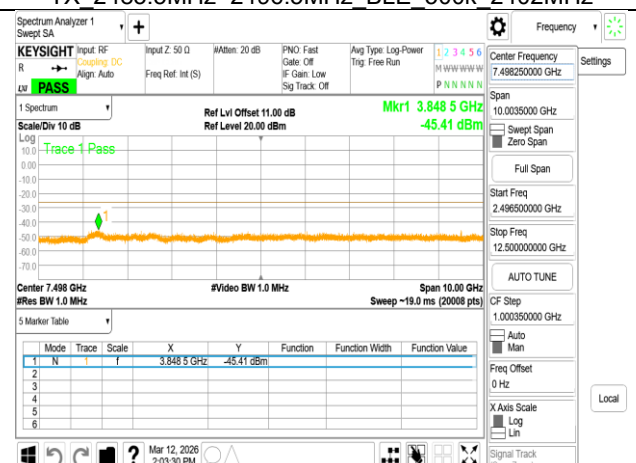
TX 2387MHz~2400MHz BLE 500k 2480MHz



TX 2483.5MHz~2496.5MHz BLE 500k 2402MHz



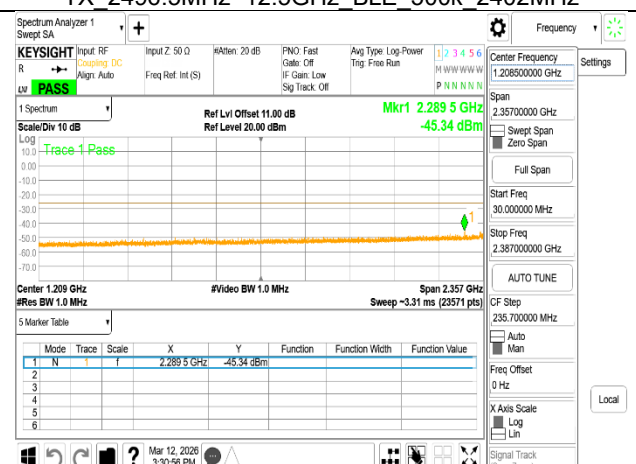
TX 2483.5MHz~2496.5MHz BLE 500k 2480MHz



TX 2496.5MHz~12.5GHz BLE 500k 2402MHz



TX 2496.5MHz~12.5GHz BLE 500k 2480MHz



TX 30MHz~2387MHz Proprietary mode 2403MHz

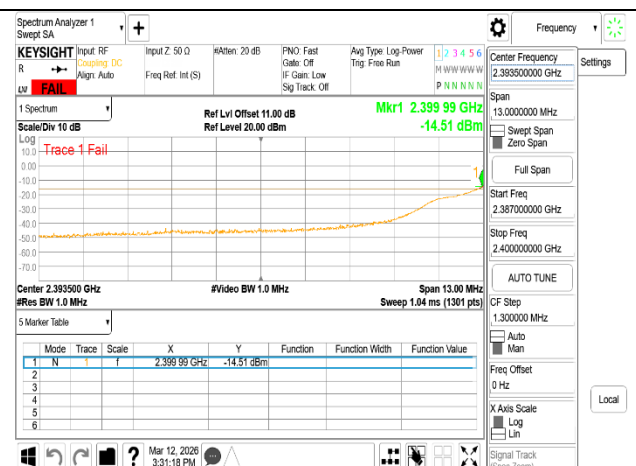
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TX 30MHz~2387MHz Proprietary mode 2475MHz



TX 2387MHz~2400MHz Proprietary mode 2403MHz



TX 2387MHz~2400MHz Proprietary mode 2403MHz Sample



TX 2387MHz~2400MHz Proprietary mode 2475MHz



TX 2483.5MHz~2496.5MHz Proprietary mode 2403MHz

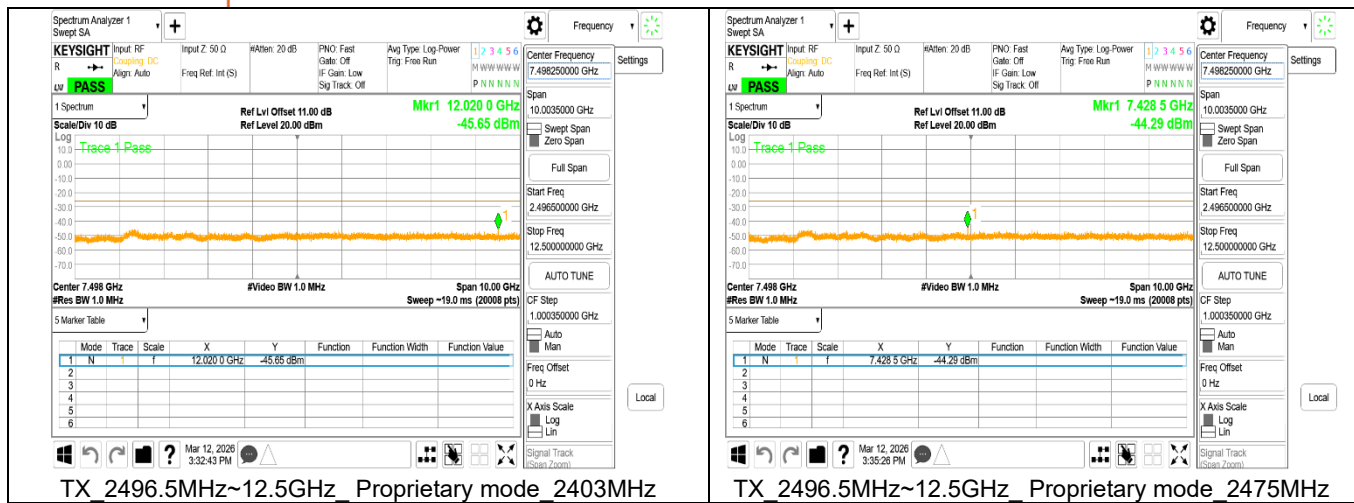


TX 2483.5MHz~2496.5MHz Proprietary mode 2475MHz

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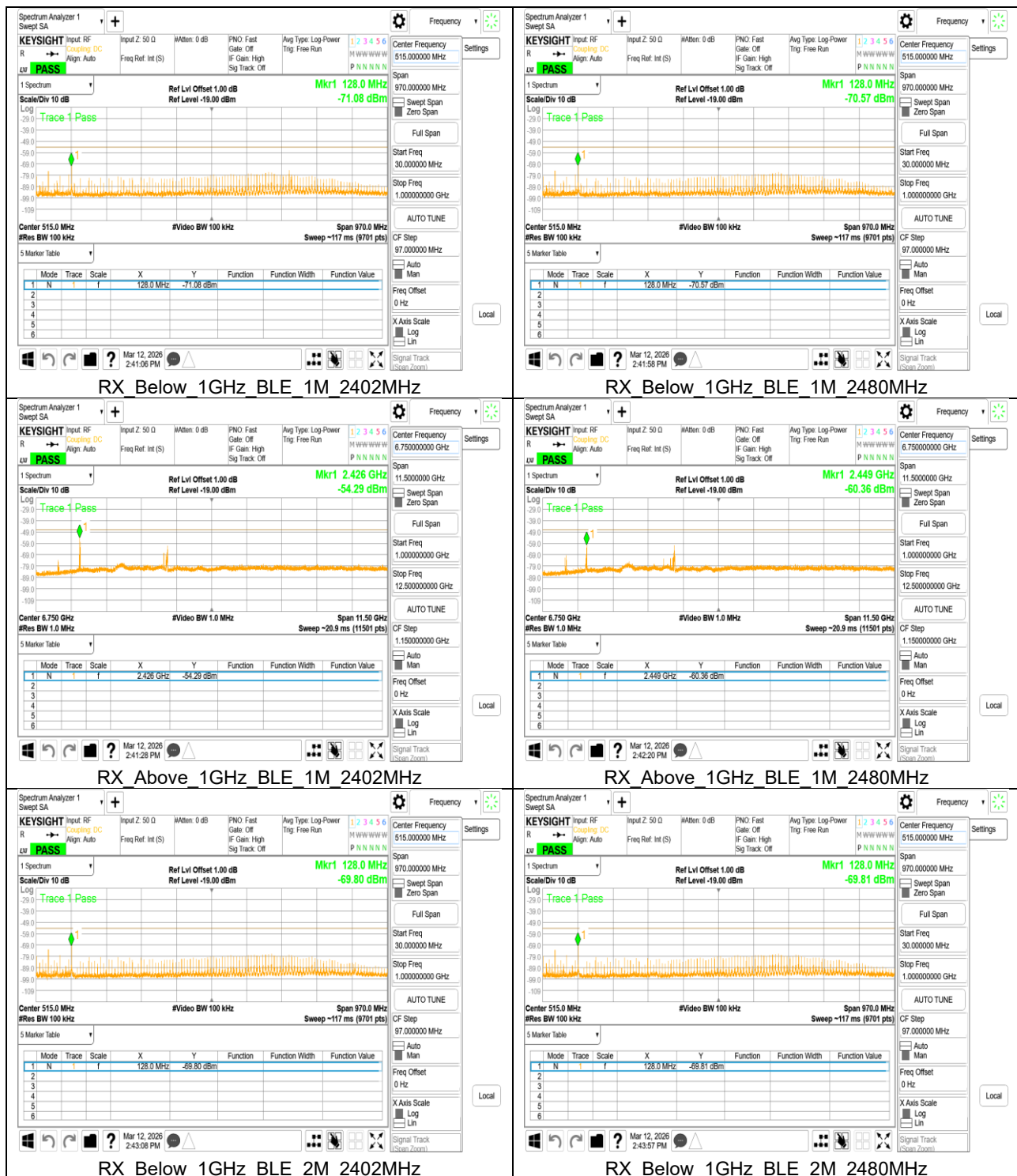
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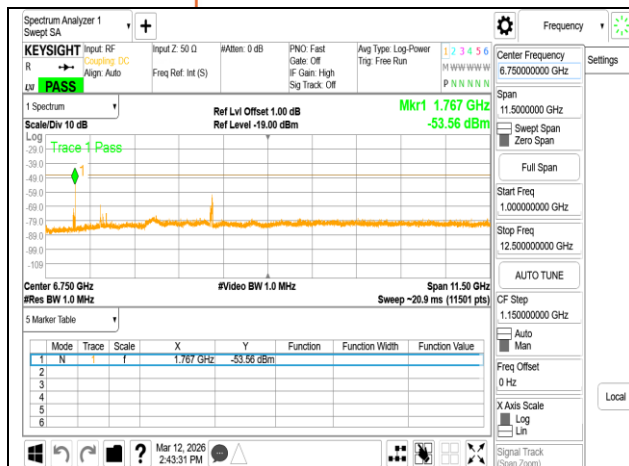
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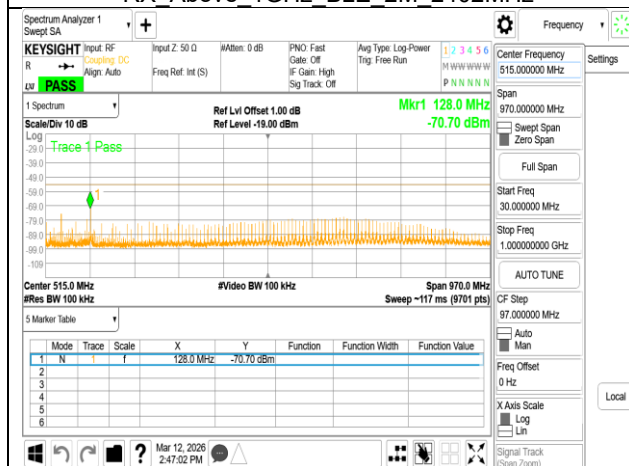
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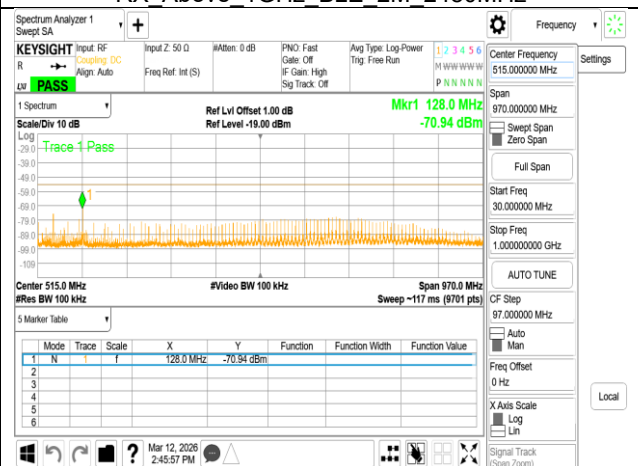
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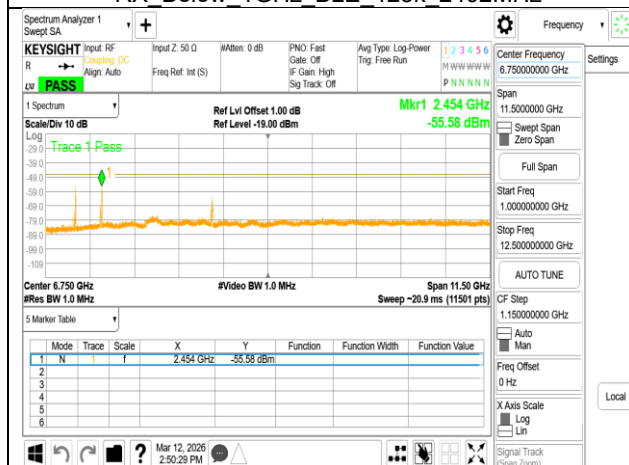
RX Above 1GHz BLE 2M 2480MHz



RX Below 1GHz BLE 125k 2402MHz



RX Below 1GHz BLE 125k 2480MHz



RX Above 1GHz BLE 125k 2402MHz



RX Above 1GHz BLE 125k 2480MHz

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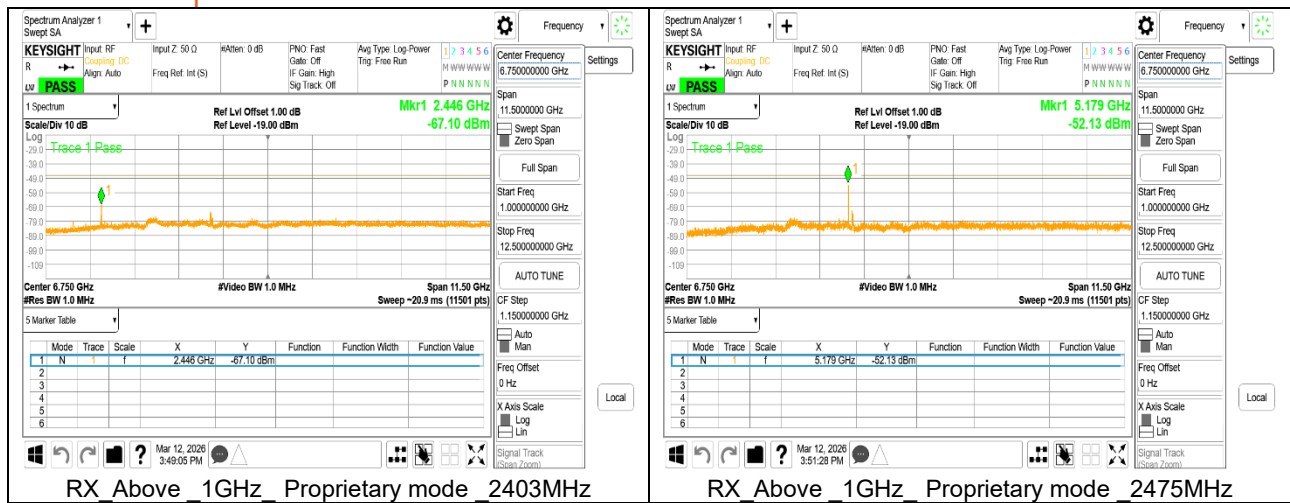
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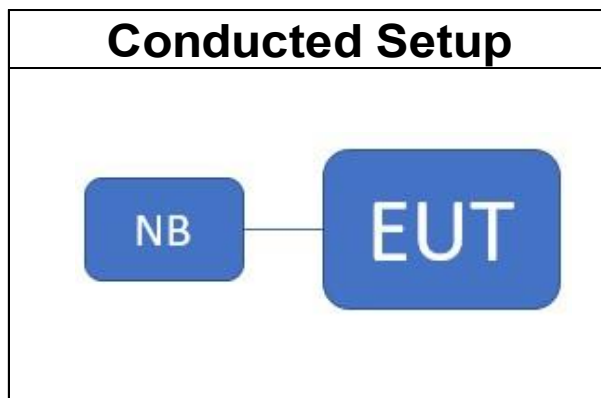
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6 TEST SET UP

6.1 Setup Diagram



~ End of Report ~

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