
MIC-R Test Report

Report No.: AGC00688260509TR01

PRODUCT DESIGNATION : WIRELESS MOUSE

BRAND NAME : SANWA SUPPLY

MODEL NAME : MA-EWBS652BK

APPLICANT : SANWA SUPPLY INC.

DATE OF ISSUE : Jun. 15, 2026

STANDARD(S) : Article 2 Paragraph 1 Item 19 of the Certification,
Article 49.20 of Ordinance Regulating Radio Equipment
MIC Notice No.88 Appendix No.43

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 15, 2026	Valid	Initial Release

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1. General Information

Applicant	SANWA SUPPLY INC.
Address	1-10-1 Tamachi Kita-ku Okayama City 700-0825 Japan
Manufacturer	DONGGUAN SHANGGUI ELECTRONICS CO., LTD.
Address	Building 6, No. 6, Hengtong Road, Houjie Town, Dongguan City, Guangdong, China
Factory	DONGGUAN SHANGGUI ELECTRONICS CO., LTD.
Address	Building 6, No. 6, Hengtong Road, Houjie Town, Dongguan City, Guangdong, China
Product Designation	WIRELESS MOUSE
Brand Name	SANWA SUPPLY
Test Model	MA-EWBS652BK
Series Model(s)	N/A
Difference Description	N/A
Date of receipt of test item	Jun. 09, 2026
Date of Test	Jun. 10, 2026
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-MIC-BLE-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By		
	Jack Gui (Project Engineer)	Jun. 15, 2026
Reviewed By		
	Bibo Zhang (Reviewer)	Jun. 15, 2026
Approved By		
	Angela Li (Authorized Officer)	Jun. 15, 2026

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2. Product Information

2.1 Product Technical Description

Equipment Type	Low Power Data Communication System in the 2.4GHz band
Operation Frequency Range	2402MHz-2480MHz
Bluetooth Version	V5.0
Hardware Version	V1.0
Software Version	V1.0
Modulation Type	BLE ☒ GFSK 1Mbps ☐ GFSK 2Mbps
Number of channels	40
Channel Separation	2 MHz
Rated Antenna Power	1mW
Antenna Designation	PCB Antenna
Antenna Gain	1.4dBi
Test Channel	2.402GHz (CH00) 2.440GHz (CH19) 2.480GHz (CH39)
Test Voltage	HV: (3.3V) High Voltage + 10% of Normal Voltage
	LV: (2.7V) Low Voltage - 10% of Normal Voltage
	NV: (3.0V) Normal Voltage

Note:

1. The EUT has single chip with one antenna and the output of the antenna feeder is 50 Ohm.
2. The EUT is a 2.4GHz single-chip controller according to MIC Notice No.88 Annex 43.
3. Please refer to Appendix II for the photographs of the EUT. For more details, please refer to the User's manual of the EUT.

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2.2 Test Frequency List

Channel No.	Frequency (GHz)	Channel No.	Frequency (GHz)
00	2.402	20	2.442
01	2.404	21	2.444
02	2.406	22	2.446
03	2.408	23	2.448
04	2.410	24	2.450
05	2.412	25	2.452
06	2.414	26	2.454
07	2.416	27	2.456
08	2.418	28	2.458
09	2.420	29	2.460
10	2.422	30	2.462
11	2.424	31	2.464
12	2.426	32	2.466
13	2.428	33	2.468
14	2.430	34	2.470
15	2.432	35	2.472
16	2.434	36	2.474
17	2.436	37	2.476
18	2.438	38	2.478
19	2.440	39	2.480

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2.3 Test Items and The Results

Article 2 Paragraph 1 Item 19 of the Certification Measurement Project		
Ordinance Regulating Radio Equipment	Description of Test	Result
Article 5	Frequency Tolerance	Complies
Article 6	Occupied Bandwidth	Complies
Article 7	Unwanted Emission Strength	Complies
Article 49.20 & Article 14	Antenna Power Error	Complies
Article 49.20	EIRP Antenna Power	Complies
Article 24	Secondary Radiated Emission Strength	Complies
Article 9.4	Interference Prevention Function	Complies
Article 49.20	Carrier Sensing Function (1)	Not applicable (See Note 1)
Article 49.20	Carrier Sensing Function (2)	Not applicable (See Note 2)
Article 49.20	Transmission Antenna Absolute Gain	Not applicable (See Note 3)
Article 49.20	Half Power Beam Angle (Radiation angle of antenna)	Not applicable (See Note 3)
Article 49.20	Housing Requirements	Complies

Note:

1. Application to transmitting devices which E.I.R.P. is less than [2.14dBi+antenna power limit] and the shortage of E.I.R.P. is compensated by the antenna power.
2. Application to transmitting devices with OFDM modulation and the occupied bandwidth greater than 26MHz.
3. It is unnecessary to testing, when a E.I.R.P. is less than 12.14dBm.

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2.4 Description of Test Modes

Test Mode	Description
Transmitter Test	
Unmod_2402	Transmitting mode without modulation (Channel: 00)
Unmod_2440	Transmitting mode without modulation (Channel: 19)
Unmod_2480	Transmitting mode without modulation (Channel: 39)
LE_2402_1Mbps	Bluetooth LE Transmitting mode (Channel: 00, Rate: 1Mbps)
LE_2440_1Mbps	Bluetooth LE Transmitting mode (Channel: 19, Rate: 1Mbps)
LE_2480_1Mbps	Bluetooth LE Transmitting mode (Channel: 39, Rate: 1Mbps)
Receiver Test	
LE_2402_1Mbps	Bluetooth LE Receiving mode (Channel: 00, Rate: 1Mbps)
LE_2440_1Mbps	Bluetooth LE Receiving mode (Channel: 19, Rate: 1Mbps)
LE_2480_1Mbps	Bluetooth LE Receiving mode (Channel: 39, Rate: 1Mbps)

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3. Setup of Equipment Under Test

3.1 Setup Configuration of EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

3.2 Support Equipment

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?				
Yes				
Item	Equipment	Trade Name	Model No.	Specification
1	Control Box	Telink	Programmer V1.0-V3.0	--

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4. Test Environment

4.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

4.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842(CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

VCCI Membership No.: 4112

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered in accordance with VCCI Council Rules.

VCCI Registration No. C-20098 for conducted emissions at AC main power ports

VCCI Registration No. T-20102 for conducted emissions at telecommunication ports

VCCI Registration No. R-20136 for radiated emissions below 1GHz

VCCI Registration No. G-20132 for radiated emissions above 1GHz

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4.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	45 % - 85 %
Pressure range (kPa)	86 - 106

4.4 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Radio Frequency	$U_c = \pm 1 \times 10^{-7}$
Uncertainty of Total RF Power, Conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of Total RF power, Radiated	$U_c = \pm 1.1 \text{ dB}$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$
Uncertainty of RF Power Density, Conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of Spurious Emissions, Conducted (30MHz-1GHz)	$U_c = \pm 2.7 \text{ dB}$
Uncertainty of Spurious Emissions, Conducted (1GHz-40GHz)	$U_c = \pm 3.2 \text{ dB}$

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4.5 List of Equipment Used

● Measuring Equipment Calibration Information							
Used	Calibration Company Abbreviation		Full Name of calibration company				
☒	CCIC		CCIC (Shenzhen) Metrology & Testing Service Co.,Ltd				
☒	GRG		GRG METROLOGY & TEST GROUP CO.,LTD.				
● Calibration Information (Article 24-2, Paragraph 4 of the Radio Act)							
☐	a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18-1 of the Radio Act						
☐	(b) Calibration conducted based on the regulations of Article 135 or 144 of the Measurement Act						
☒	(c) Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act						
☐	(d) Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a) through (c) above						
● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2026-05-06	2027-05-05
☐	AGC-ER-E041	Spectrum Analyzer	Agilent	N9020A	W1312-60196	2026-05-20	2027-05-19
☒	AGC-BQ-E016	Power Meter	R&S	NRP-Z21	104604	2026-05-19	2027-05-18
☒	AGC-ER-A001	6dB Attenuator	SAIGE	SMA-JK	N/A	2025-09-05	2026-09-04
☐	AGC-ER-E079	Wireless Connectivity Tester	R&S	CMW270	101933	2026-05-06	2027-05-05
☐	AGC-ER-E075	Small Environmental Tester	SH-242	ESPEC	93008290	2025-07-24	2026-07-23
☐	AGC-ER-E059	Signal Generator	Agilent	N5182B	MY53050647	2026-01-13	2027-01-12
☒	--	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	--	RF Connection Cable	N/A	2#	N/A	Each time	N/A
☒	AGC-ER-E017	temperature and humidity recorder	testo	608-H1	N/A	2026-05-22	2027-05-21
☒	AGC-ER-E091	DC Power Supply	AIDEKESI	IT6720	800103030787810080	2026-03-13	2027-03-12

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5. Measurement Results of Article 2 Paragraph 1 Item 19

5.1 Frequency Tolerance Measurement

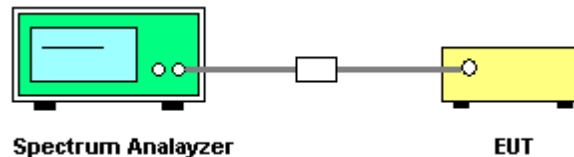
Test Limit

Test Item	Limits
Frequency Tolerance (2400~2483.5MHz)	$-50\text{ppm} \leq \text{Frequency Error} \leq 50\text{ppm}$

Test Procedure

1. Frequency accuracy of SA shall be less than 10% of limits tolerance (5ppm)
2. Setting of SA is following as: RB: 10kHz / VB: 10kHz / SPAN: 0.5MHz
3. Center Frequency: The center frequency of testing for EUT
4. Sweep time=Auto
5. Sweep mode=Continuous sweep
6. Detect mode=Positive peak
7. EUT have transmitted absence of modulation signal and fixed channelize. if is using the mark cursor to mark the peak frequency value, f_c is declaring of channel frequency.
8. Then the frequency tolerance formula is $(f-f_c)/f_c \times 10^6 \text{ppm}$ and the limit is less than $\pm 50\text{ppm}$

Test Setup



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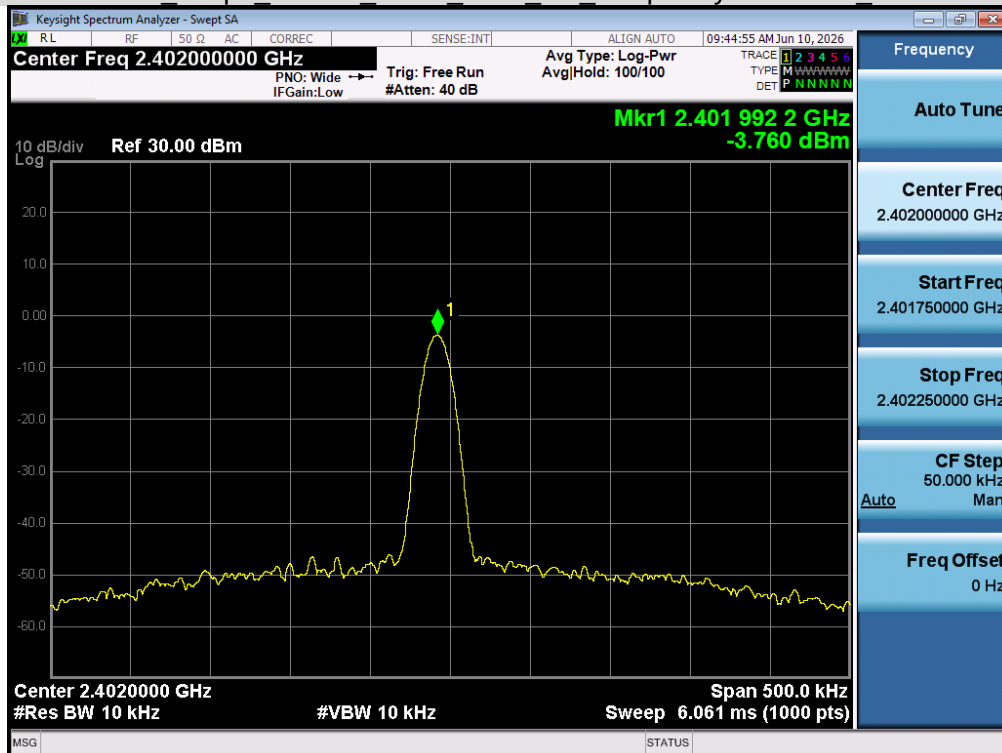
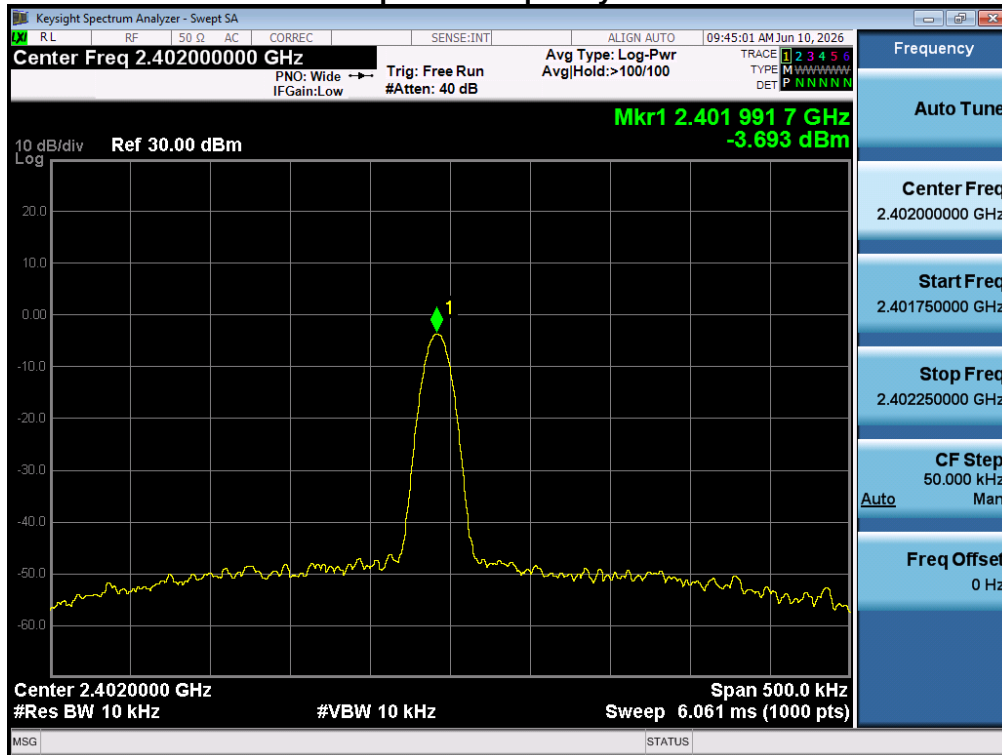
Test Result

Test Temperature	22.5°C	Relative Humidity	54.0%
Test Pressure	101kPa	Test Engineer	Vicky Huang
Testing Time	2026-06-10		

Test Data of Frequency Tolerance								
Test Mode	Measure Frequency (MHz)			Frequency Error (ppm)			Limit (ppm)	P/F
	NV	LV	HV	NV	LV	HV		
Unmod_2402	2401.9922	2401.9922	2401.9917	-3.23	-3.23	-3.44	±50	Pass
Unmod_2440	2439.9917	2439.9917	2439.9917	-3.38	-3.38	-3.38	±50	Pass
Unmod_2480	2479.9912	2479.9912	2479.9912	-3.53	-3.53	-3.53	±50	Pass

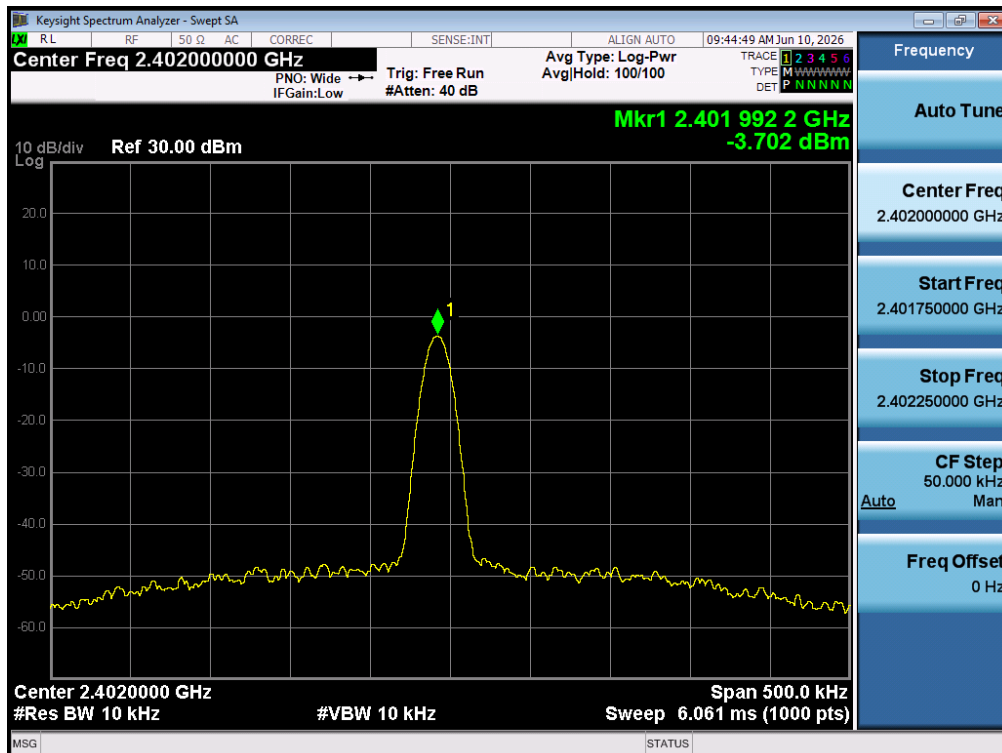
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Test Graphs of Frequency Tolerance

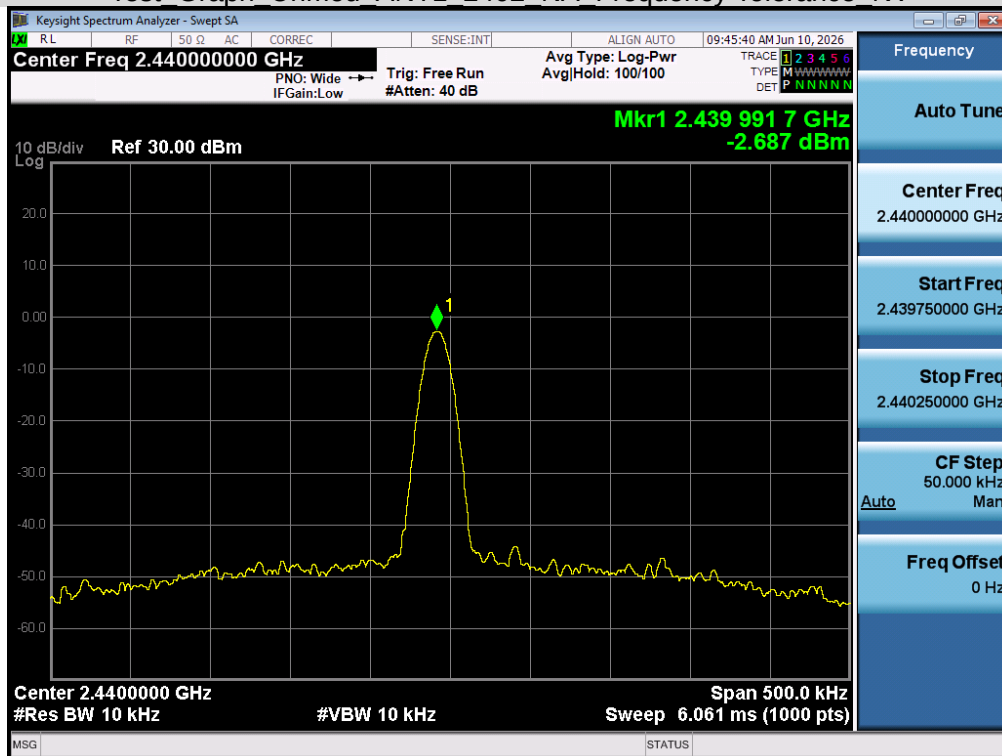


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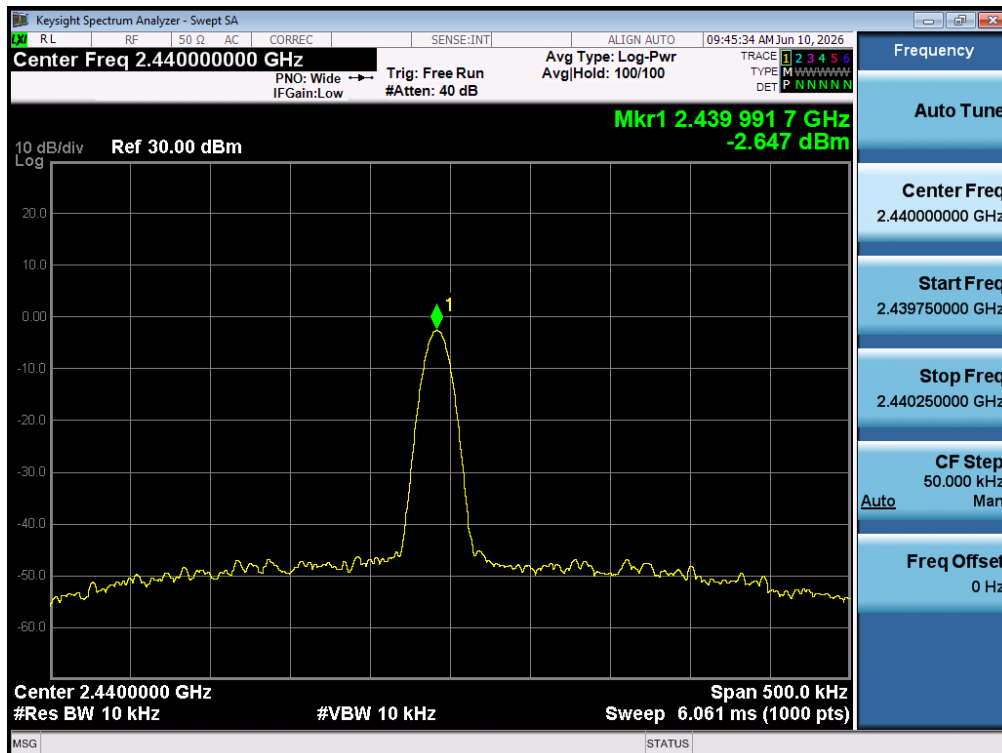


Test Graph Unmod ANT1 2402 NA Frequency Tolerance NV

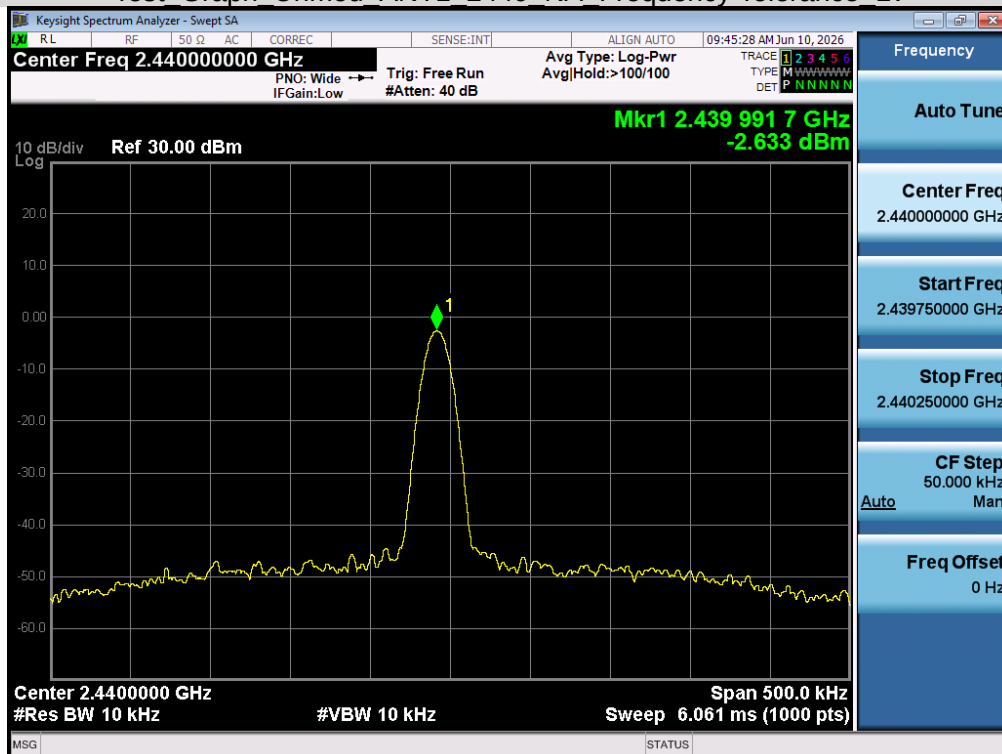


Test_Graph_Unmod_ANT1_2440_NA_Frequency Tolerance_HV

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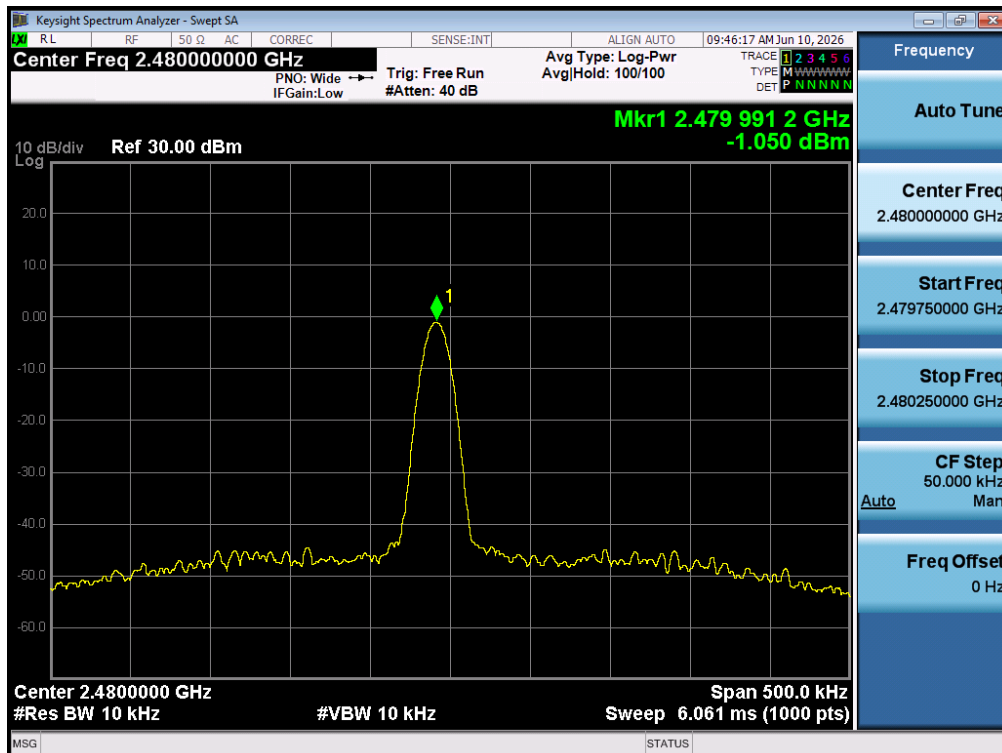


Test Graph Unmod ANT1 2440 NA Frequency Tolerance LV

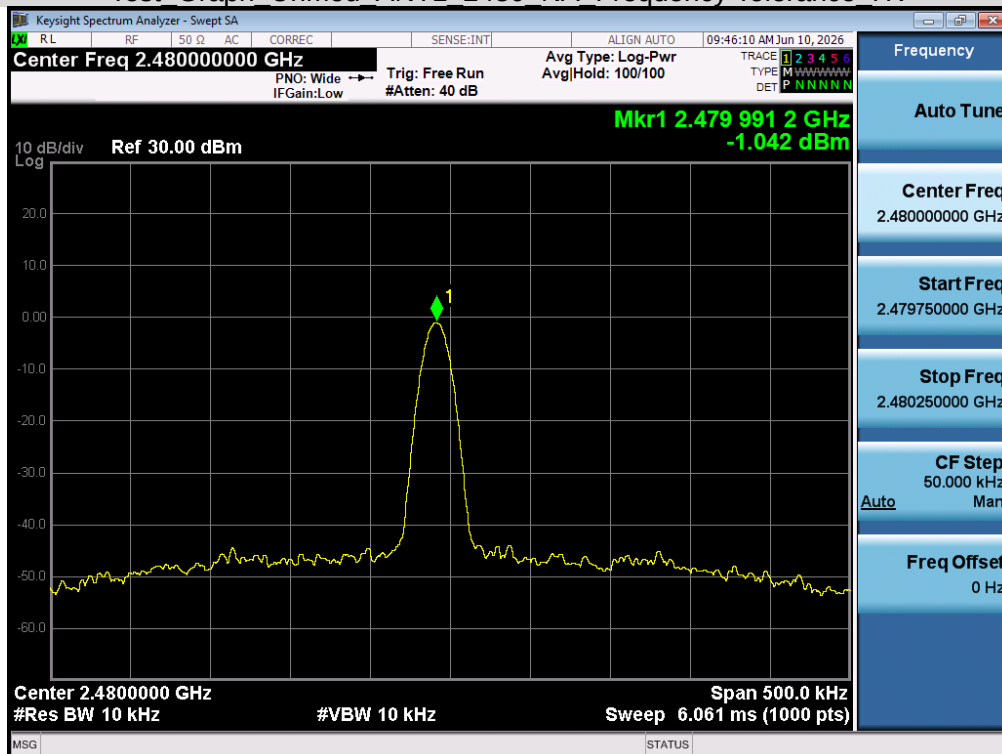


Test_Graph_Unmod_ANT1_2440_NA_Frequency Tolerance_NV

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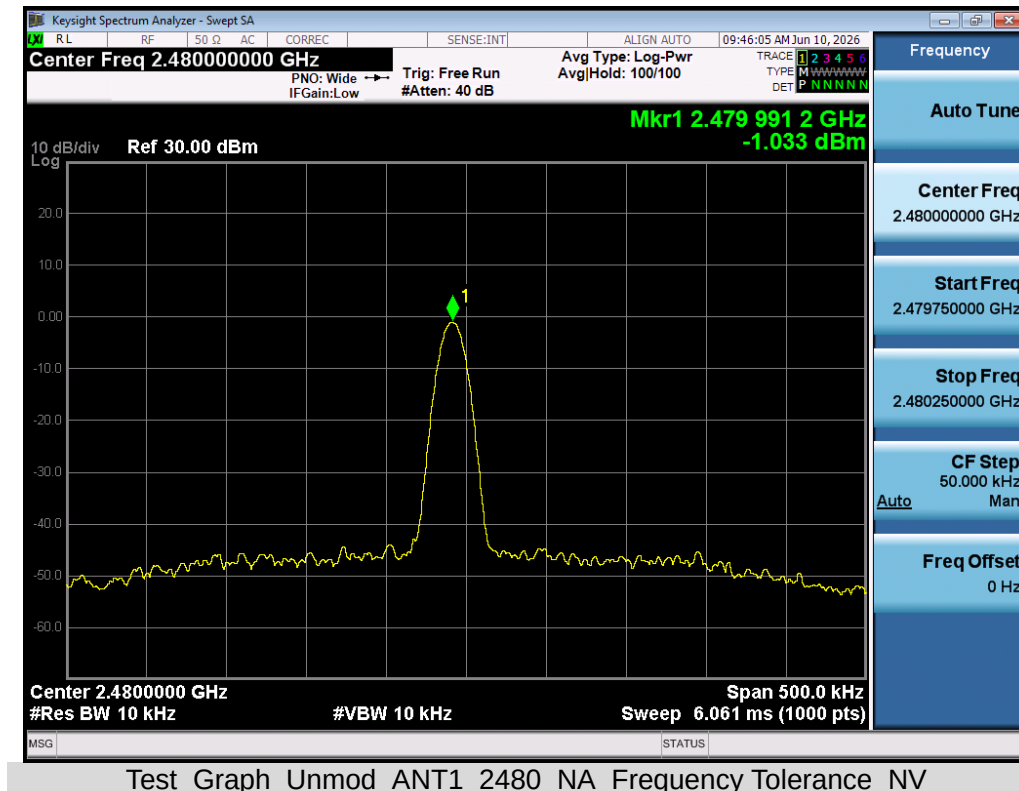


Test Graph Unmod ANT1 2480 NA Frequency Tolerance HV



Test_Graph_Unmod_ANT1_2480_NA_Frequency Tolerance_LV

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5.2 Occupied Bandwidth Measurement

Test Limit

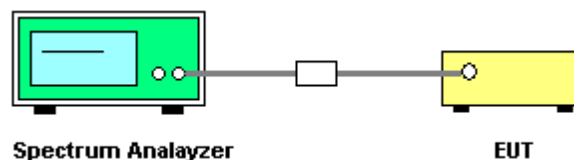
Test Item	Limits
Occupied Bandwidth	FH < 83.5MHz;
	26MHz $\leq$ OFDM 40M system $\leq$ 40MHz;
	OFDM 20M system, DS, Others $\leq$ 26MHz

Test Procedure

The device under test is connected to the spectrum analyzer through a radio frequency cable and the settings are as follows:

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. SA set to 99% of occupied bandwidth to measure occupied bandwidth.
3. Resolution bandwidth: Limited to 3% or less of the allowable value specified in equipment regulations.
4. Video bandwidth: Comparable to the resolution bandwidth.
5. Span: Spanning from approximately twice to 3.5 times the allowable value as per equipment regulations.
6. ATT: 30dB /Ref:20dBm (actual sample power adjustment is for reference only)
7. Sweep time = The minimum duration ensuring measurement accuracy, accounting for burst wave scenarios where at least one burst occurs per sample. / Sweep Mode: Continuous sweep
8. Detect mode=Positive peak
9. Trace mode=Max hold
10. Record the result for Occupied Bandwidth Measurements in report.

Test Setup



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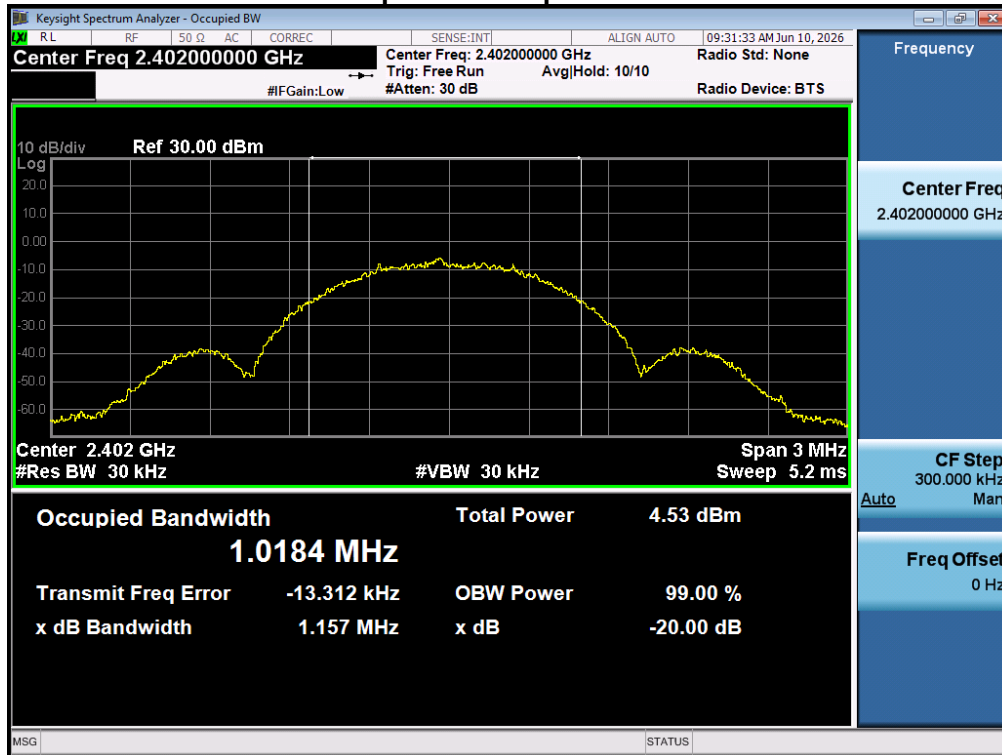
Test Result

Test Temperature	22.5℃	Relative Humidity	54.0%
Test Pressure	101kPa	Test Engineer	Vicky Huang
Testing Time	2026-06-10		

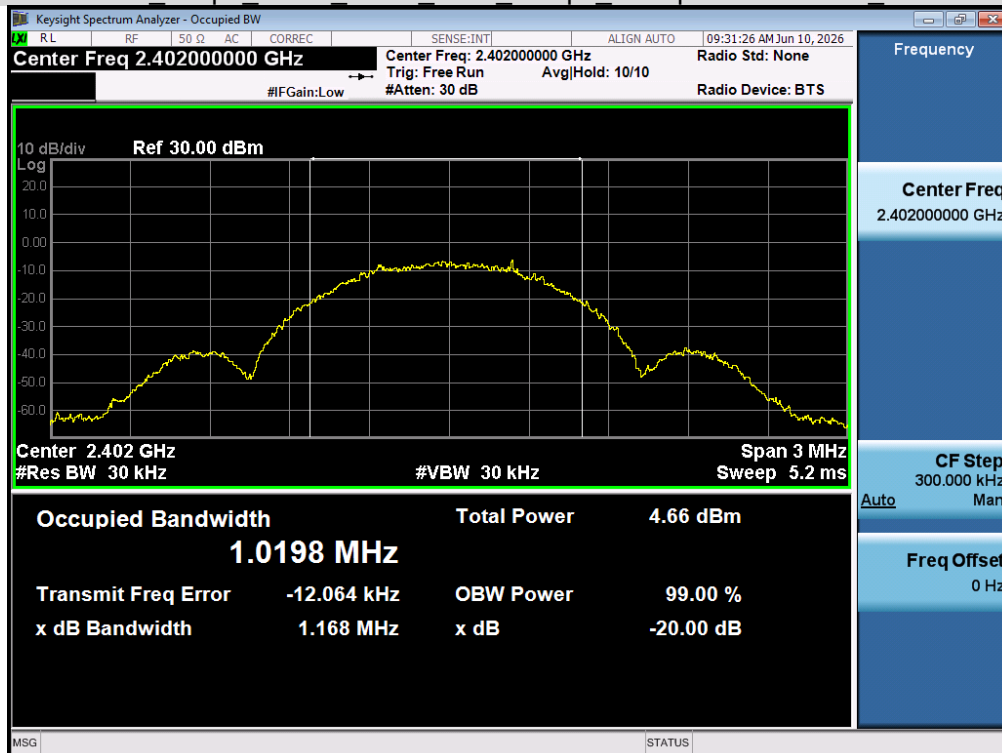
Test Data of Occupied Bandwidth					
Test Mode	Occupied Bandwidth (MHz)			Limit (MHz)	P/F
	NV	LV	HV		
LE1M_2402_1Mbps	1.024	1.020	1.018	<26	Pass
LE1M_2440_1Mbps	1.020	1.009	1.020	<26	Pass
LE1M_2480_1Mbps	1.009	1.010	1.007	<26	Pass

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Test Graphs of Occupied Bandwidth

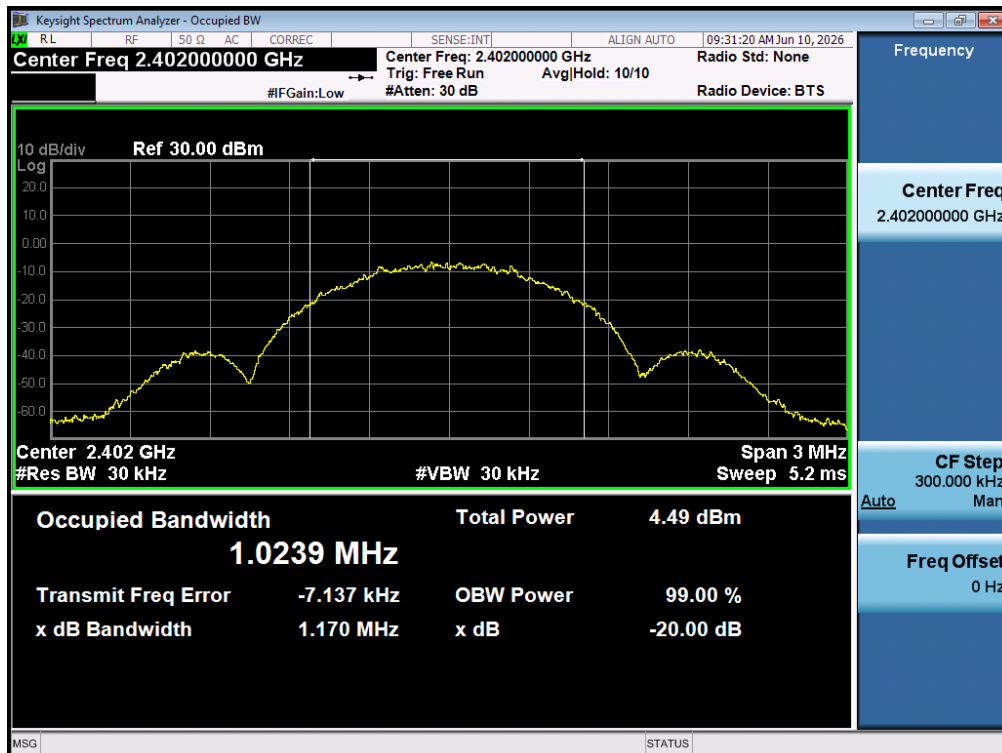


Test Graph LE1M ANT1 2402 1Mbps Occupied Bandwidth HV

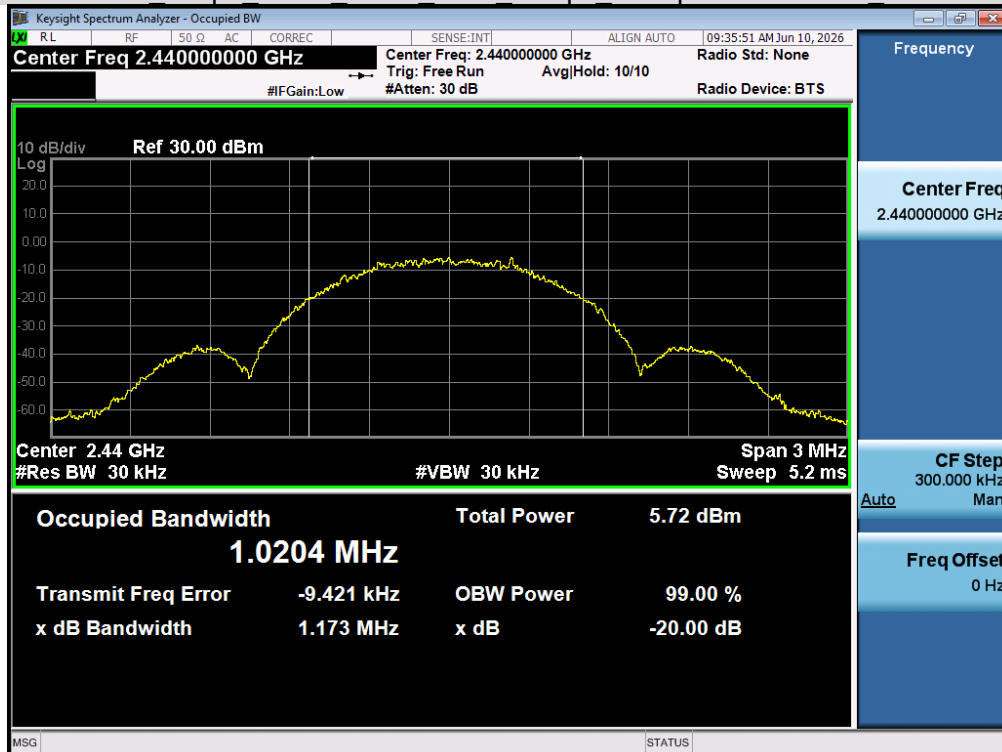


Test Graph LE1M ANT1 2402 1Mbps Occupied Bandwidth LV

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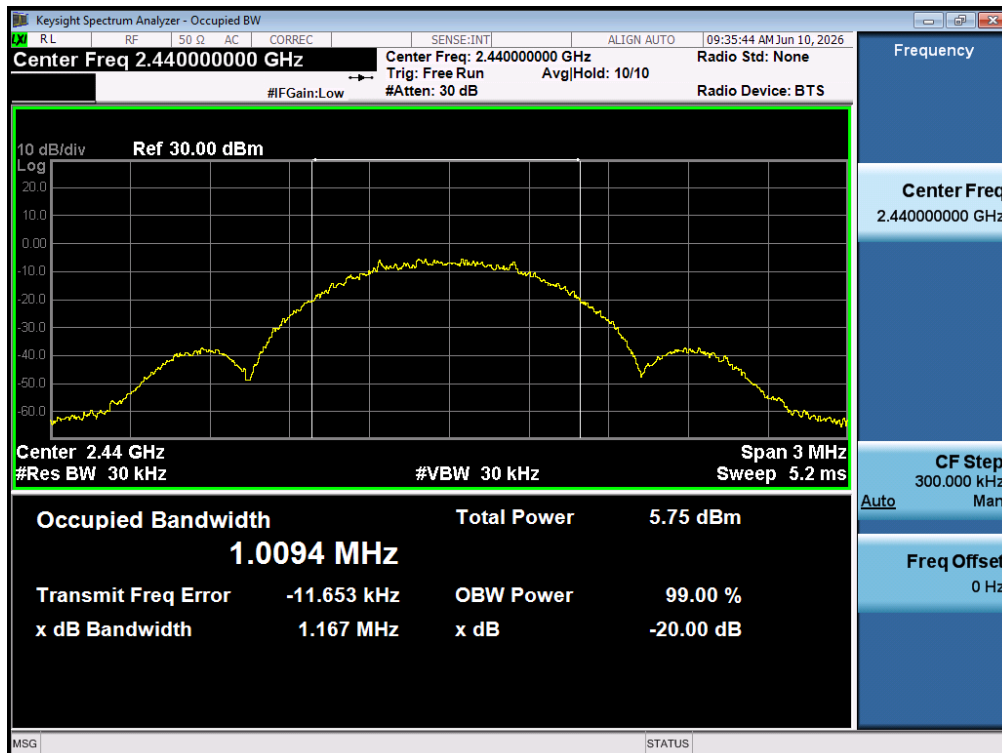
Test Graph LE1M ANT1 2402 1Mbps Occupied Bandwidth NV



Test Graph LE1M ANT1 2440 1Mbps Occupied Bandwidth HV

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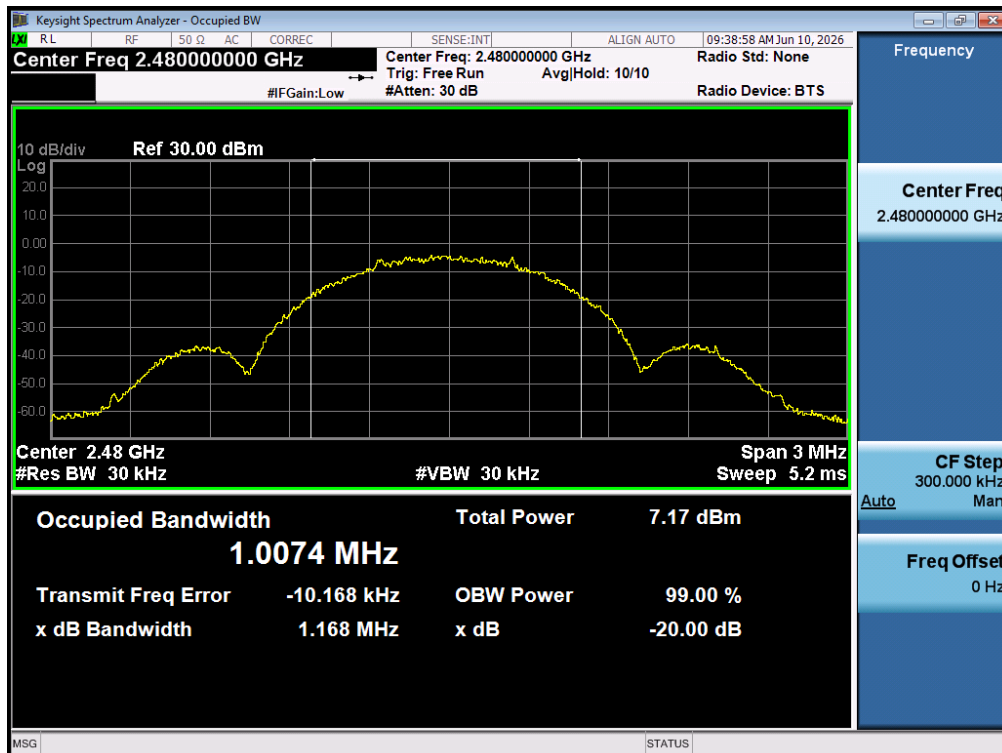
Test Graph LE1M ANT1 2440 1Mbps Occupied Bandwidth LV



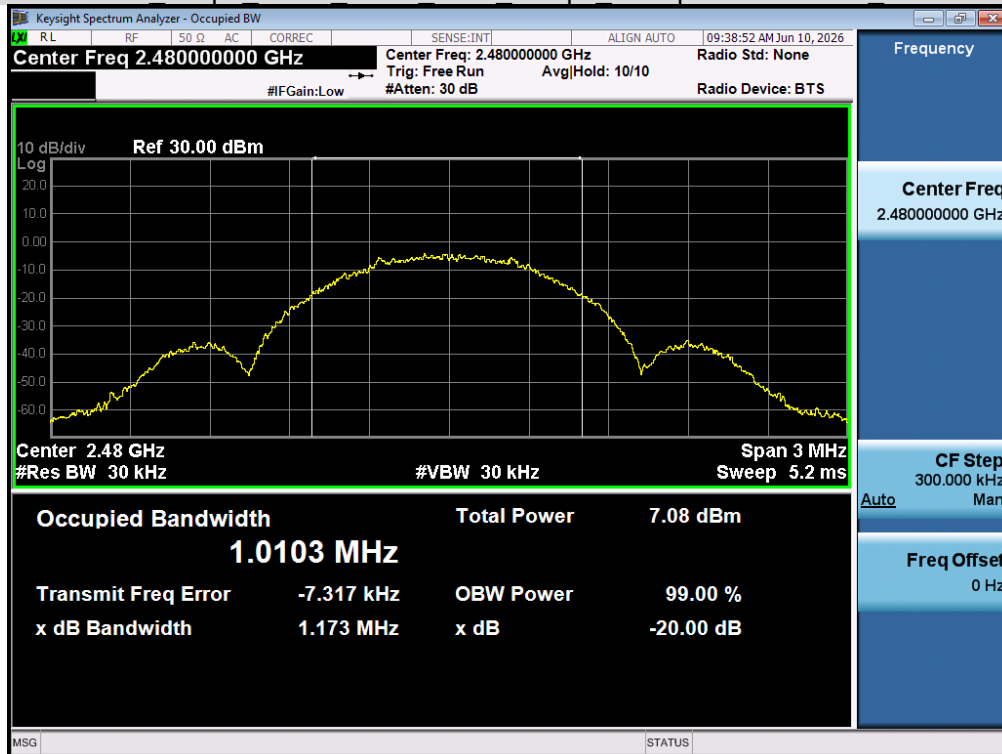
Test Graph LE1M ANT1 2440 1Mbps Occupied Bandwidth NV

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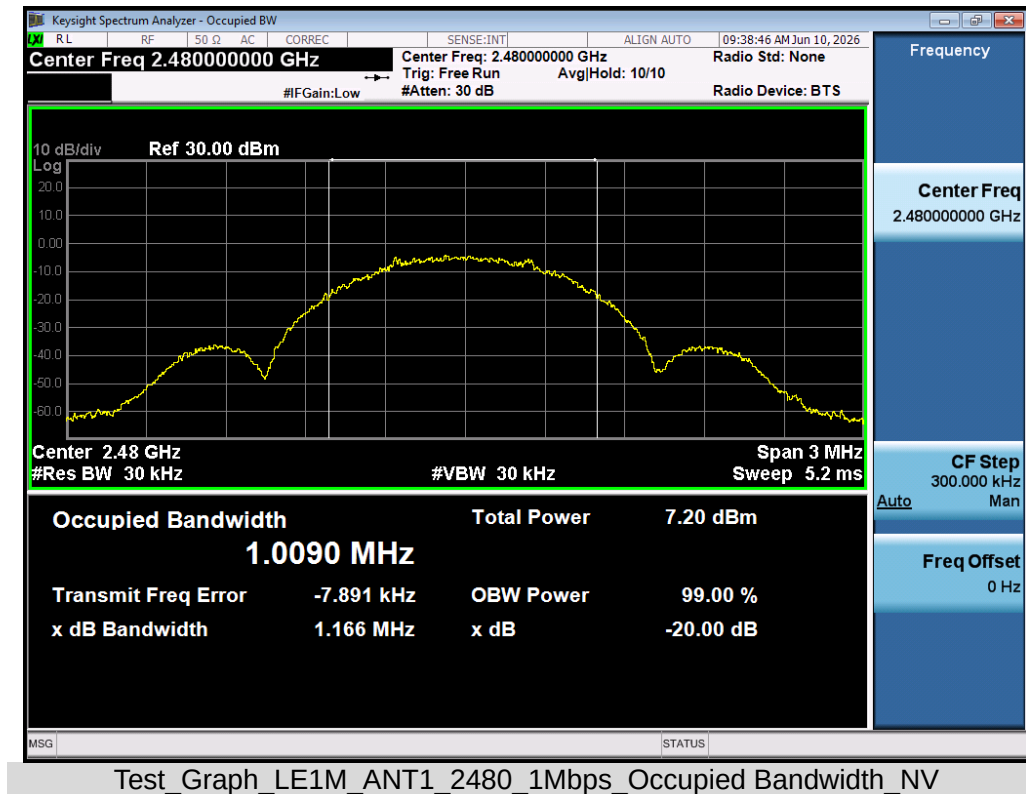
Test Graph LE1M ANT1 2480 1Mbps Occupied Bandwidth HV



Test_Graph_LE1M_ANT1_2480_1Mbps_Occupied Bandwidth_LV

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5.3 Unwanted Emission Strength Measurement

Test Limit

Test Item	Limits
Unwanted Emission Strength (2400~2483.5MHz)	$\leq 2.5\mu\text{W/MHz}$ ($30\text{MHz} \leq f \leq 1000\text{MHz}$)
	$\leq 2.5\mu\text{W/MHz}$ ($1000\text{MHz} < f < 2387\text{MHz}$)
	$\leq 25\mu\text{W/MHz}$ ($2387\text{MHz} \leq f < 2400\text{MHz}$)
	$\leq 25\mu\text{W/MHz}$ ($2483.5\text{MHz} < f \leq 2496.5\text{MHz}$)
	$\leq 2.5\mu\text{W/MHz}$ ($2496.5\text{MHz} < f < 12500\text{MHz}$)

Test Procedure

The following table is the setting of spectrum analyzer.

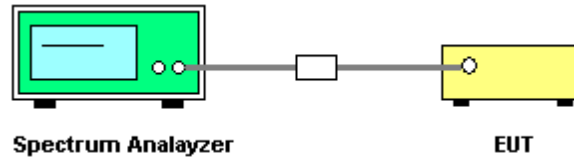
Spectrum Parameter	Setting
RB / VB	Below 1GHz RB:100kHz / VB:100kHz Above 1GHz RB:1MHz / VB:1MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- UT have transmitted the maximum modulation signal and fixed channelize.
- Setting of SA is following as: Below 1GHz RB: 100KHz / VB: 100KHz; Above 1GHz RB: 1MHz / VB:1MHz
- AT: 30dB Ref:20dBm / Sweep time: Auto Sweep Mode: Continuous sweep / Detect mode: Positive peak Trace mode: Max hold
- Setting of SA is following as 30MHz and stop frequency 1000MHz Then to mark peak reading value + cable loss shall be less than $2.5\mu\text{W/MHz}$.
- Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than $2.5\mu\text{W/MHz}$.
- SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than $25\mu\text{W/MHz}$.
- SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than $25\mu\text{W/MHz}$
- SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than $2.5\mu\text{W/MHz}$
- Convert from dBm to μW : $P(\mu\text{W}) = 1000 * 10^{[P(\text{dBm})/10]}$
- Convert a measurement Value $P_{100\text{kHz}}$ at 100kHz RBW to $P_{1\text{MHz}}$ at 1MHz, use the following formula:

$$P_{1\text{MHz}} = P_{100\text{kHz}} + 10 \cdot \log_{10} \left(\frac{RBW_{1\text{MHz}}}{RBW_{100\text{kHz}}} \right)$$

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Test Setup



Test Result

Test Temperature	22.5℃	Relative Humidity	54.0%
Test Pressure	101kPa	Test Engineer	Vicky Huang
Testing Time	2026-06-10		

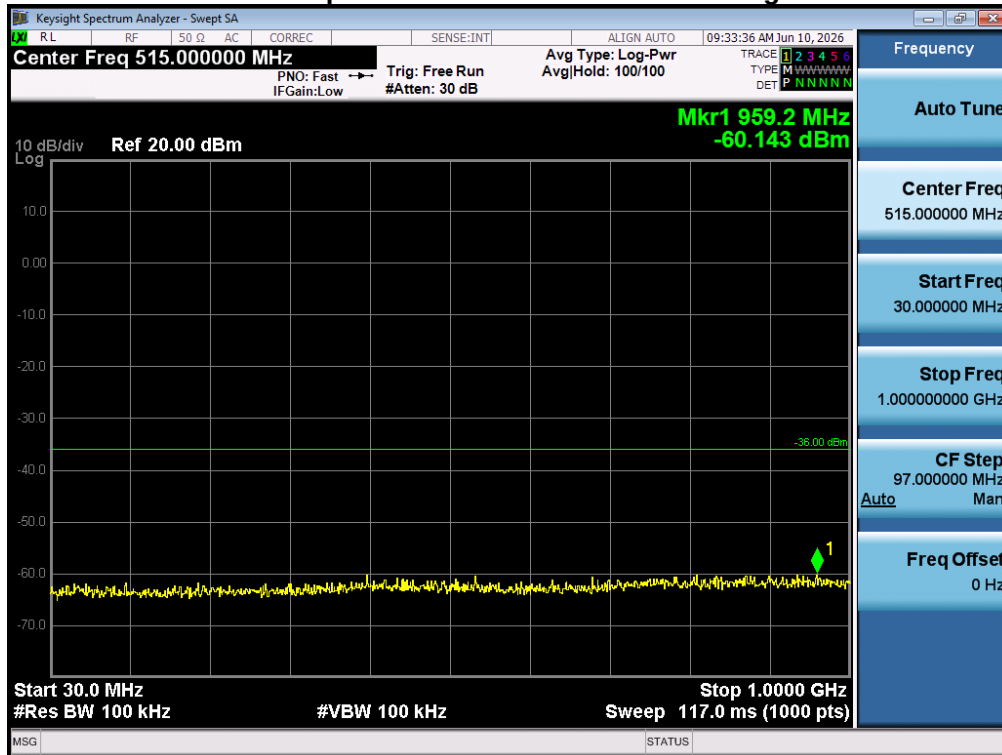
Test Data of Unwanted Emission Strength								
Voltage	Mode	Channel (MHz)	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	LE1M	2402	30~1000	960.2	-49.47	0.011	2.5	Pass
NV	LE1M	2402	1000~2387	2314.8	-48.589	0.014	2.5	Pass
NV	LE1M	2402	2387~2400	2400	-40.225	0.095	25	Pass
NV	LE1M	2402	2483.5~2496.5	2494.7	-49.376	0.012	25	Pass
NV	LE1M	2402	2496.5~12500	4799.6	-35.5	0.282	2.5	Pass
LV	LE1M	2402	30~1000	785.4	-49.741	0.011	2.5	Pass
LV	LE1M	2402	1000~2387	2074.6	-48.91	0.013	2.5	Pass
LV	LE1M	2402	2387~2400	2400	-40.236	0.095	25	Pass
LV	LE1M	2402	2483.5~2496.5	2493.1	-49.438	0.011	25	Pass
LV	LE1M	2402	2496.5~12500	4809.6	-35.532	0.28	2.5	Pass
HV	LE1M	2402	30~1000	959.2	-50.143	0.01	2.5	Pass
HV	LE1M	2402	1000~2387	2338.4	-48.434	0.014	2.5	Pass
HV	LE1M	2402	2387~2400	2400	-39.916	0.102	25	Pass
HV	LE1M	2402	2483.5~2496.5	2485.6	-49.193	0.012	25	Pass
HV	LE1M	2402	2496.5~12500	4799.6	-35.562	0.278	2.5	Pass
NV	LE1M	2440	30~1000	843.7	-49.521	0.011	2.5	Pass
NV	LE1M	2440	1000~2387	2099.6	-48.352	0.015	2.5	Pass
NV	LE1M	2440	2387~2400	2392.0	-49.905	0.01	25	Pass
NV	LE1M	2440	2483.5~2496.5	2487.6	-49.974	0.01	25	Pass
NV	LE1M	2440	2496.5~12500	4879.7	-33.749	0.422	2.5	Pass
LV	LE1M	2440	30~1000	866.0	-49.077	0.012	2.5	Pass
LV	LE1M	2440	1000~2387	2164.9	-47.732	0.017	2.5	Pass
LV	LE1M	2440	2387~2400	2395.5	-50.002	0.01	25	Pass
LV	LE1M	2440	2483.5~2496.5	2487.8	-49.063	0.012	25	Pass
LV	LE1M	2440	2496.5~12500	4879.7	-34.144	0.385	2.5	Pass
HV	LE1M	2440	30~1000	894.2	-49.135	0.012	2.5	Pass
HV	LE1M	2440	1000~2387	2319.0	-48.647	0.014	2.5	Pass

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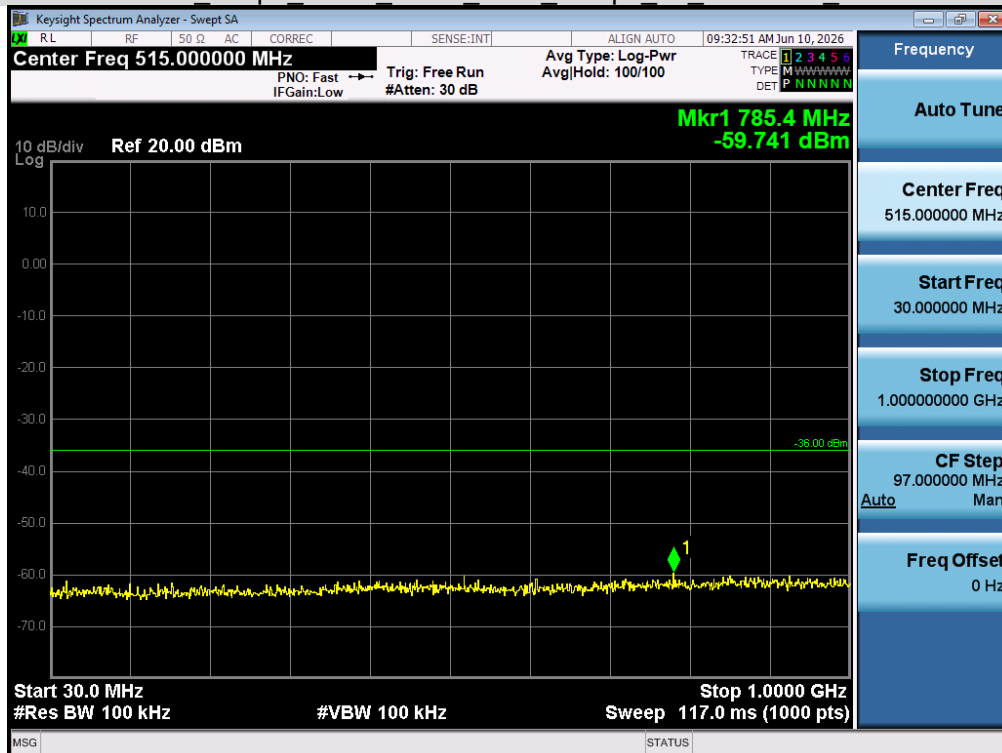
HV	LE1M	2440	2387~2400	2392.9	-48.82	0.013	25	Pass
HV	LE1M	2440	2483.5~2496.5	2495.9	-49.244	0.012	25	Pass
HV	LE1M	2440	2496.5~12500	4879.7	-34.132	0.386	2.5	Pass
NV	LE1M	2480	30~1000	890.3	-49.497	0.011	2.5	Pass
NV	LE1M	2480	1000~2387	2237.1	-47.95	0.016	2.5	Pass
NV	LE1M	2480	2387~2400	2387.1	-49.766	0.011	25	Pass
NV	LE1M	2480	2483.5~2496.5	2484.0	-49.252	0.012	25	Pass
NV	LE1M	2480	2496.5~12500	4959.8	-35.728	0.267	2.5	Pass
LV	LE1M	2480	30~1000	833.0	-49.692	0.011	2.5	Pass
LV	LE1M	2480	1000~2387	2192.6	-48.796	0.013	2.5	Pass
LV	LE1M	2480	2387~2400	2393.0	-49.455	0.011	25	Pass
LV	LE1M	2480	2483.5~2496.5	2486.7	-49.537	0.011	25	Pass
LV	LE1M	2480	2496.5~12500	4959.8	-35.916	0.256	2.5	Pass
HV	LE1M	2480	30~1000	811.6	-49.483	0.011	2.5	Pass
HV	LE1M	2480	1000~2387	2219.0	-48.438	0.014	2.5	Pass
HV	LE1M	2480	2387~2400	2395.8	-49.57	0.011	25	Pass
HV	LE1M	2480	2483.5~2496.5	2492.5	-49.283	0.012	25	Pass
HV	LE1M	2480	2496.5~12500	4959.8	-35.891	0.258	2.5	Pass

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Test Graphs of Unwanted Emission Strength



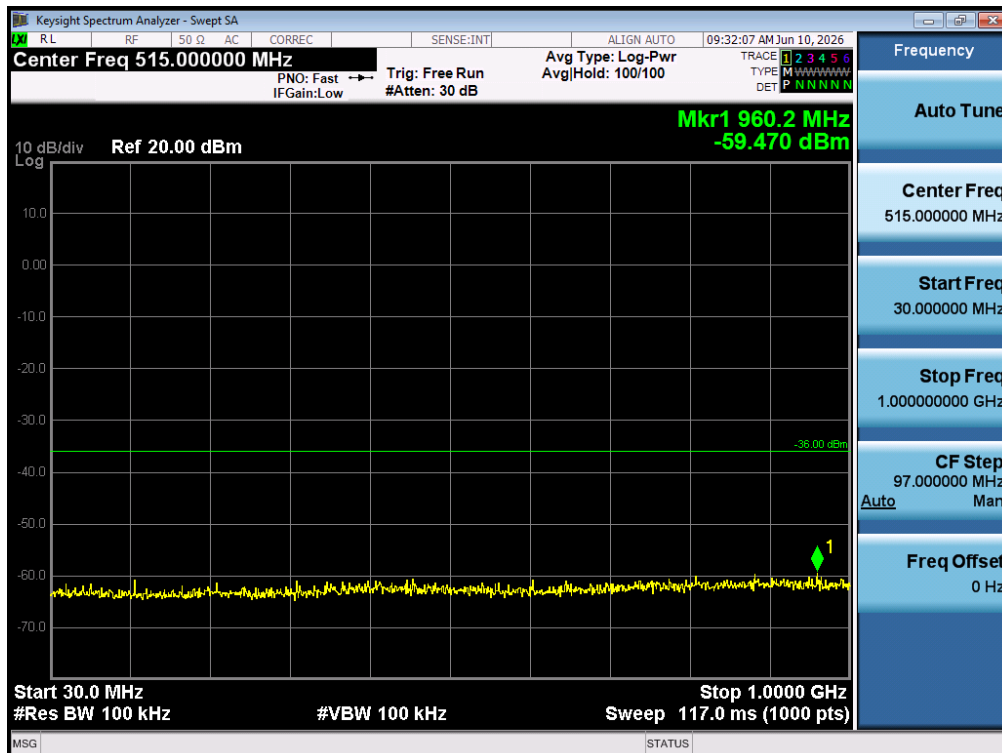
Test Graph LE1M ANT1_2402_1Mbps_30_1000MHz_HV



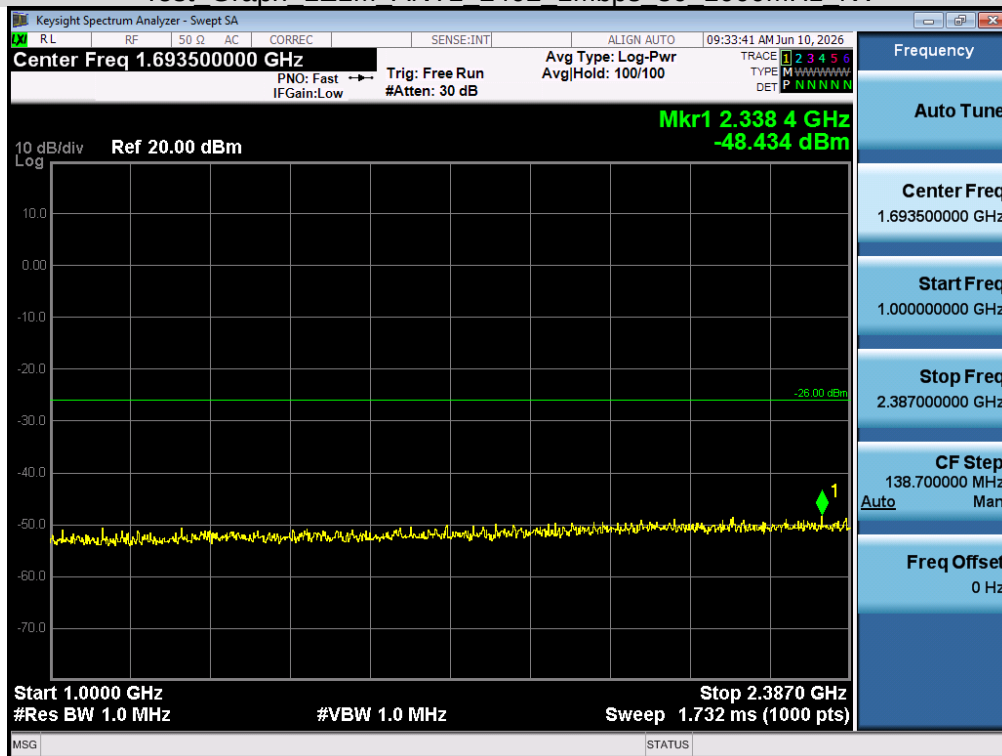
Test_Graph_LE1M_ANT1_2402_1Mbps_30_1000MHz_LV

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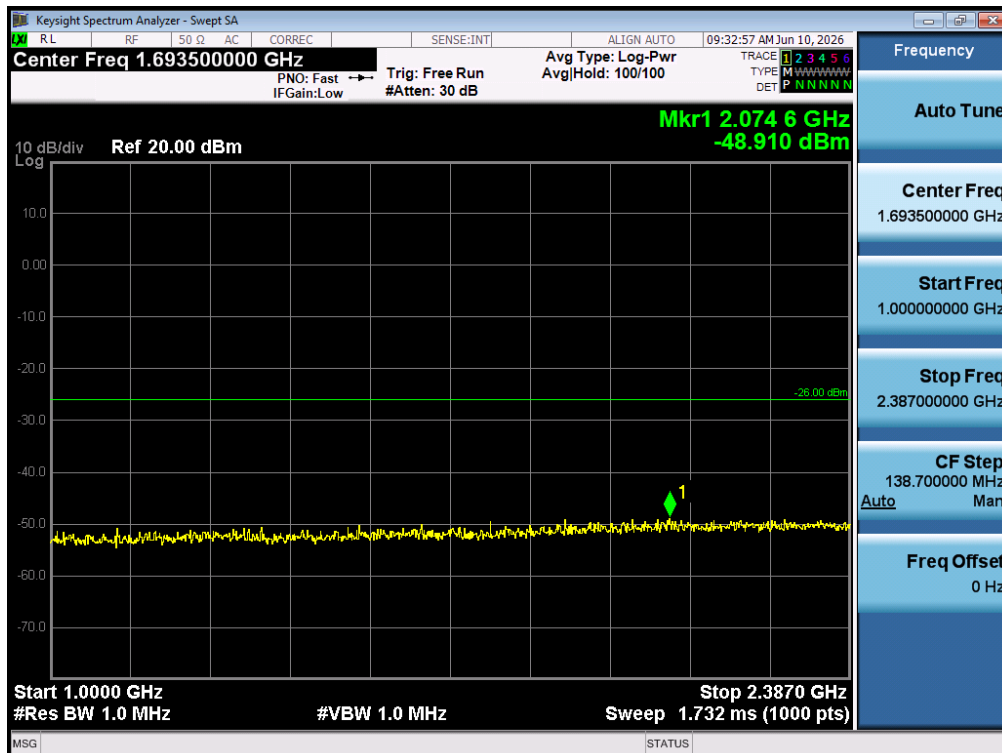


Test Graph LE1M ANT1 2402 1Mbps 30 1000MHz NV

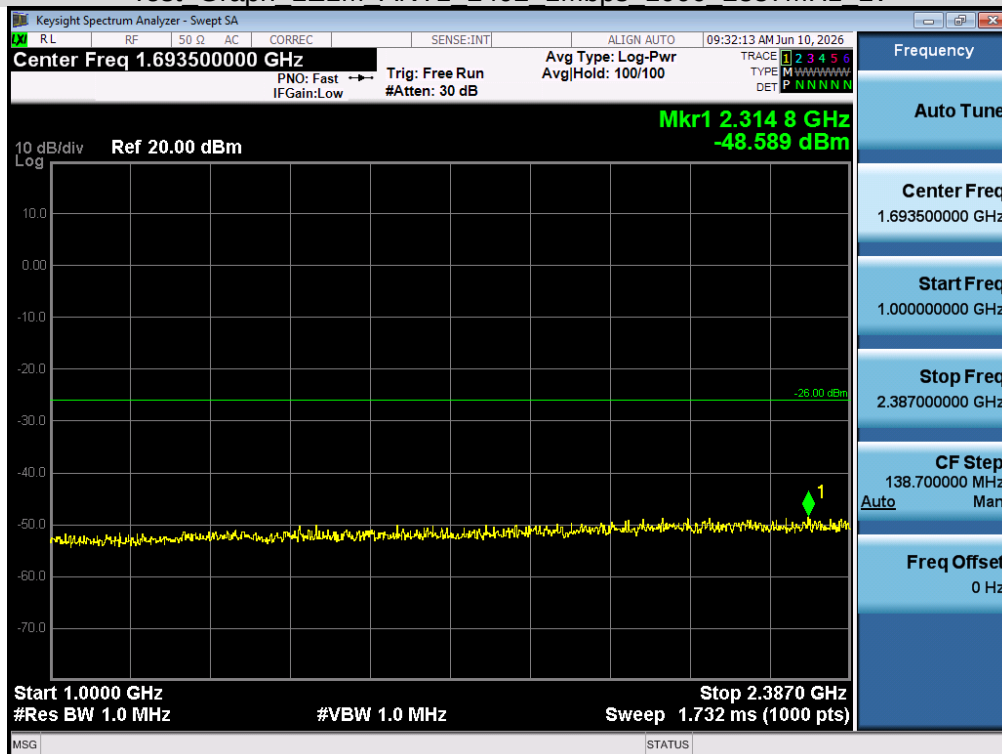


Test_Graph_LE1M_ANT1_2402_1Mbps_1000_2387MHz_HV

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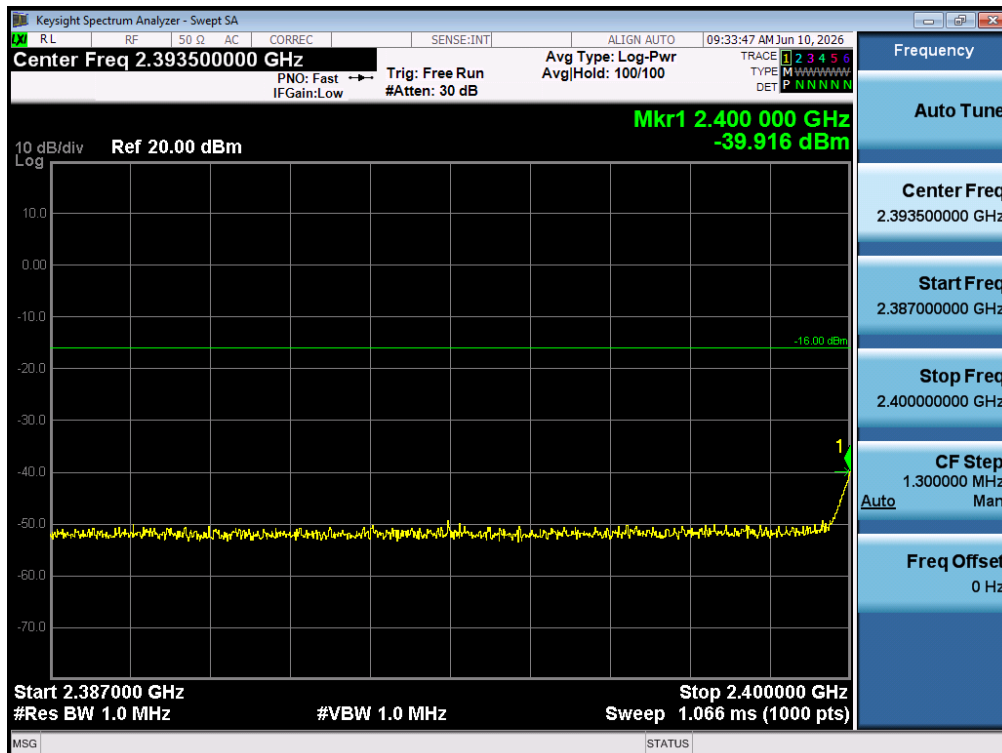
Test Graph LE1M ANT1 2402 1Mbps 1000 2387MHz LV



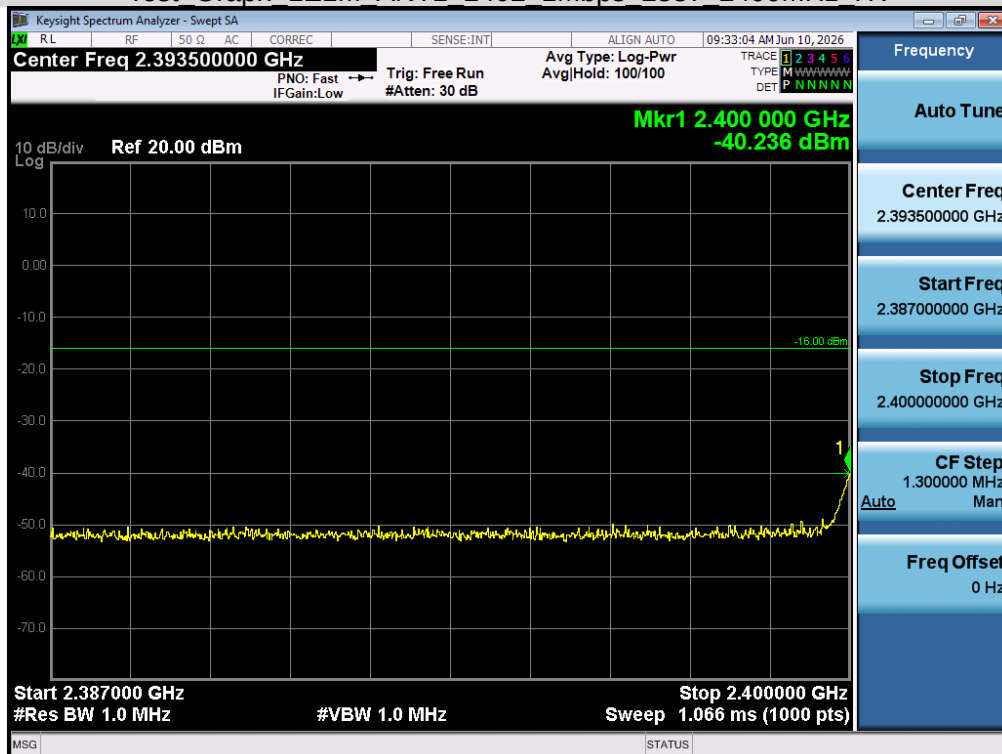
Test_Graph_LE1M_ANT1_2402_1Mbps_1000_2387MHz_NV

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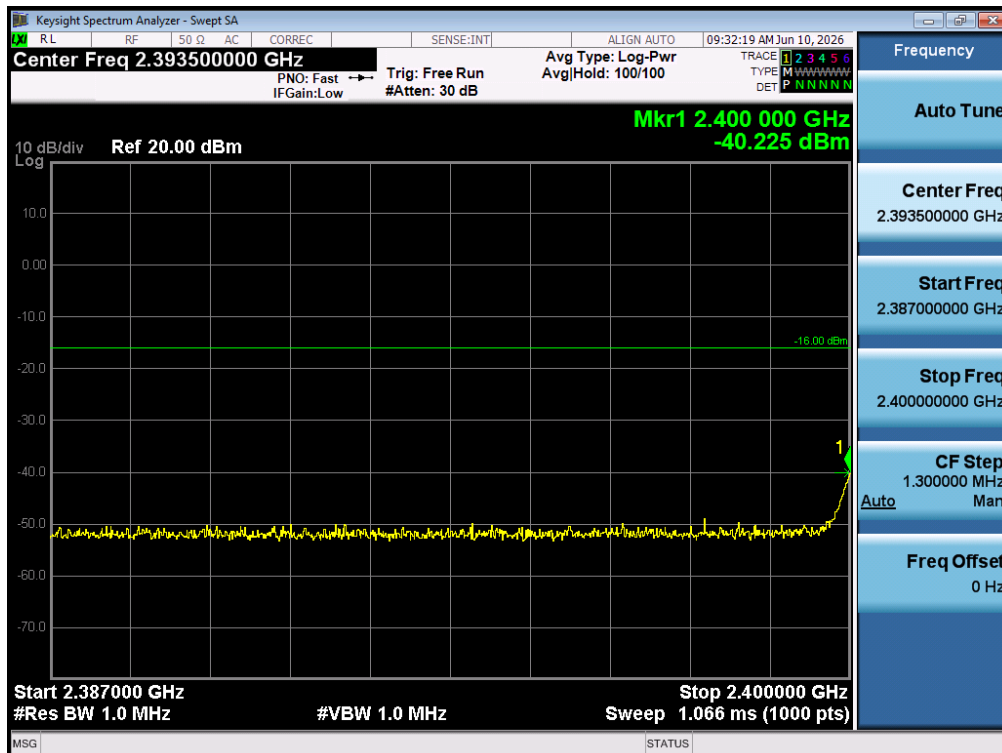
Test Graph LE1M ANT1 2402 1Mbps 2387 2400MHz HV



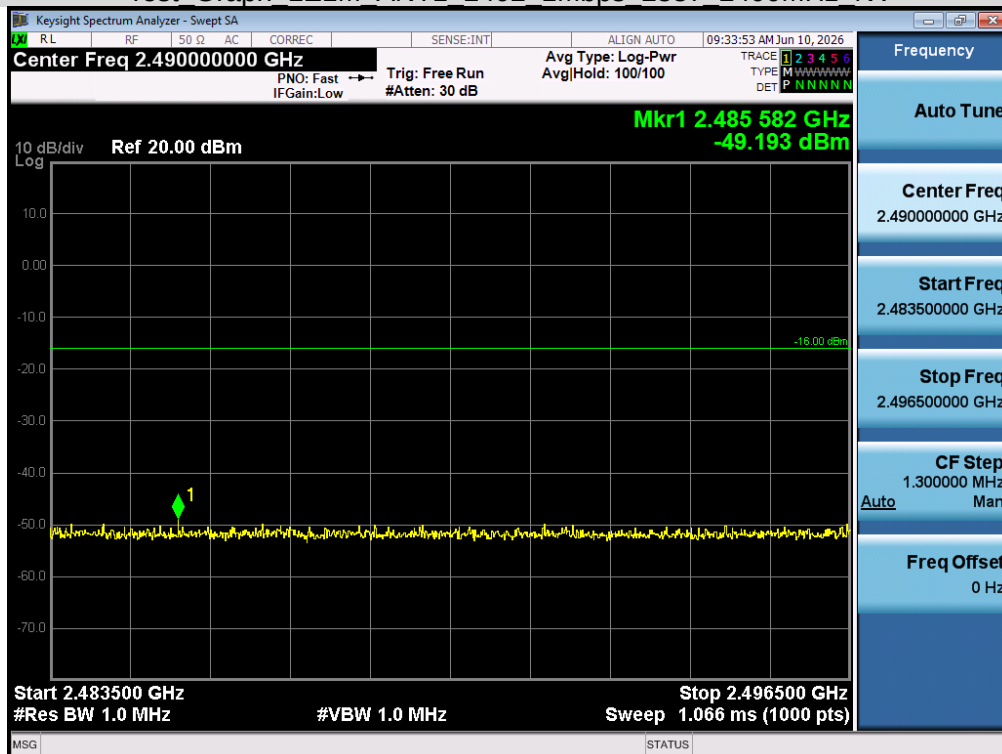
Test_Graph_LE1M_ANT1_2402_1Mbps_2387_2400MHz_LV

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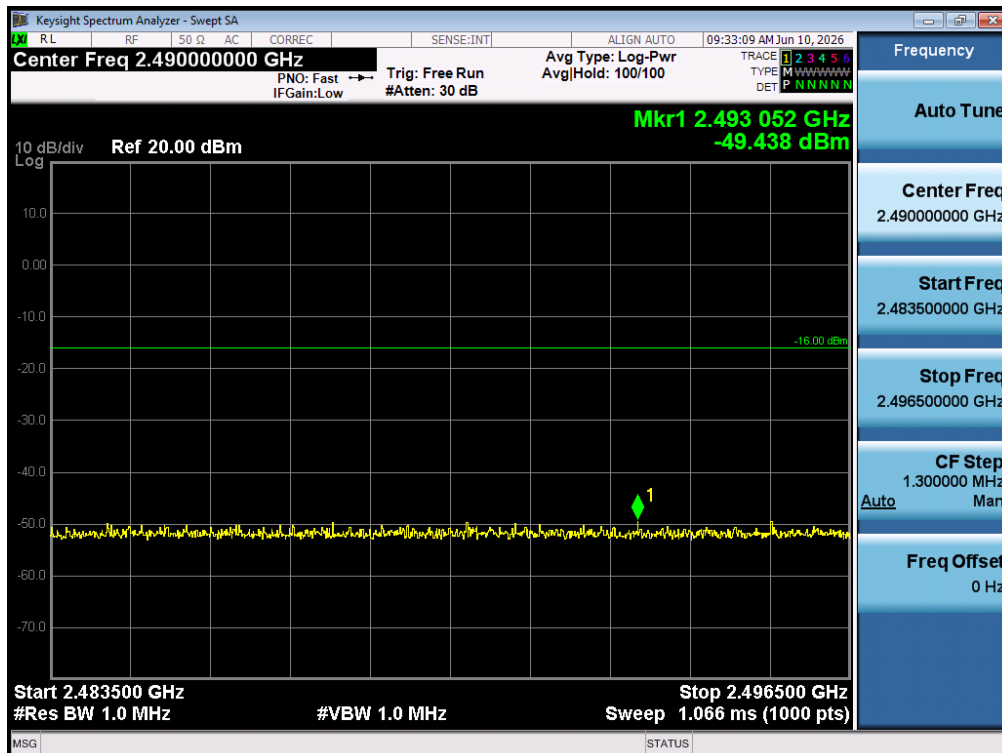
Test Graph LE1M ANT1 2402 1Mbps 2387 2400MHz NV



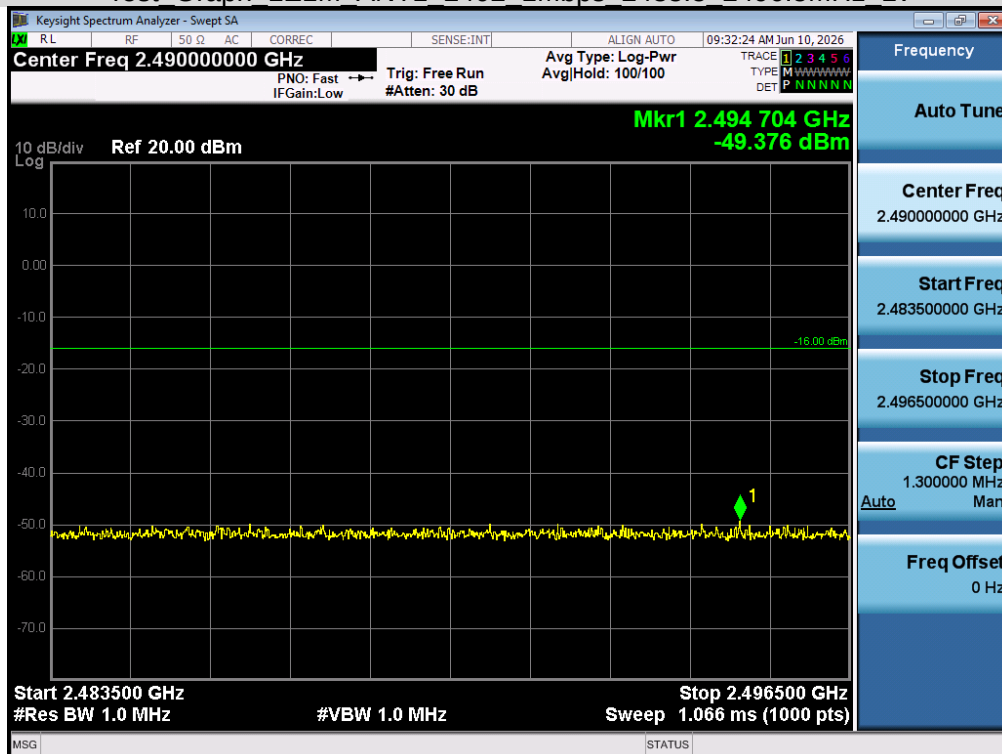
Test_Graph_LE1M_ANT1_2402_1Mbps_2483.5_2496.5MHz_HV

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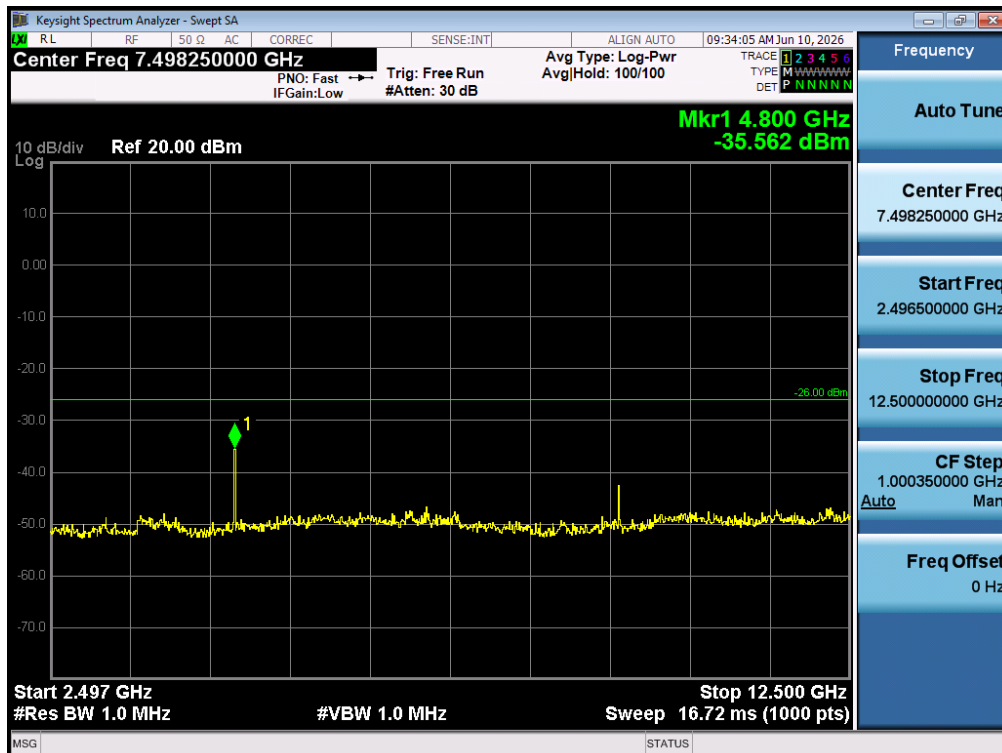
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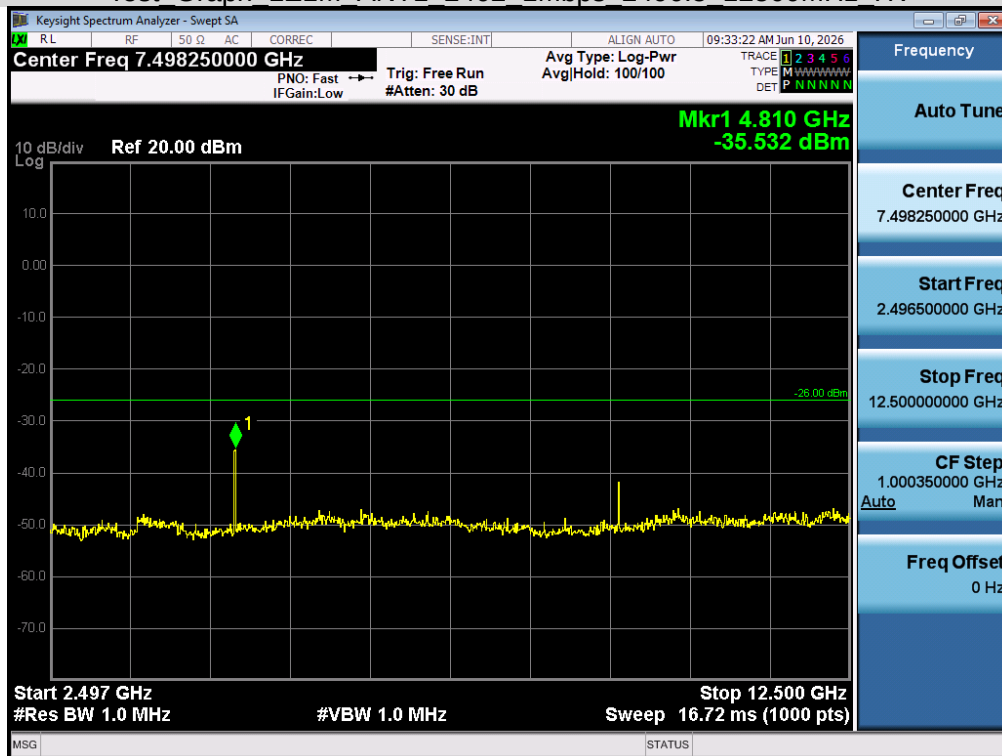
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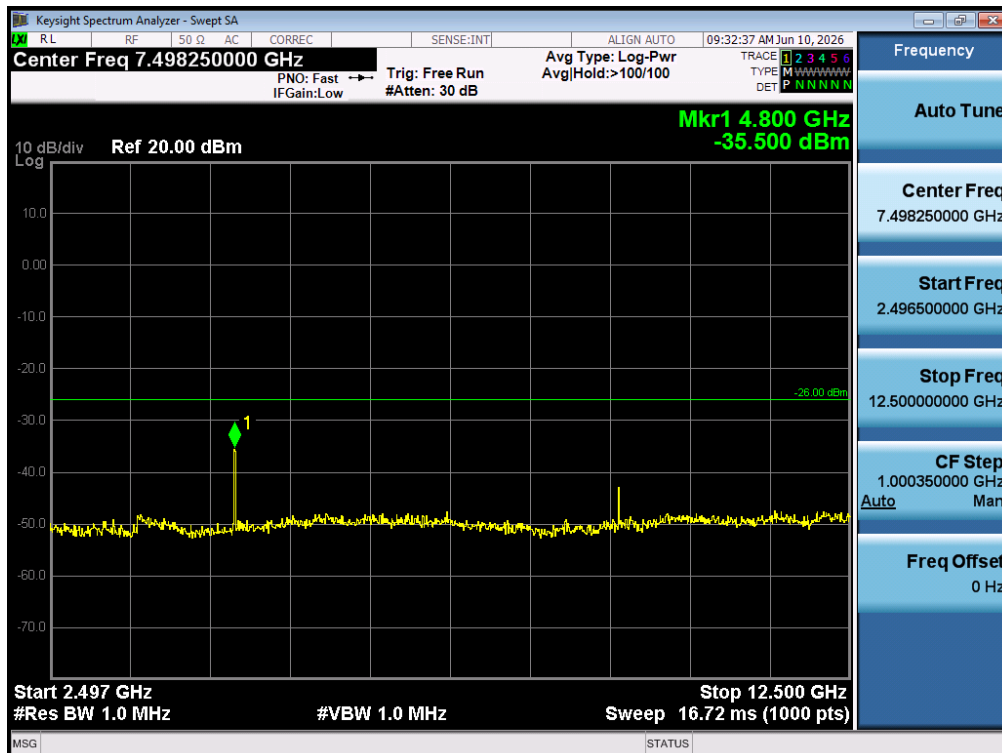
Test Graph LE1M ANT1 2402 1Mbps 2496.5 12500MHz HV



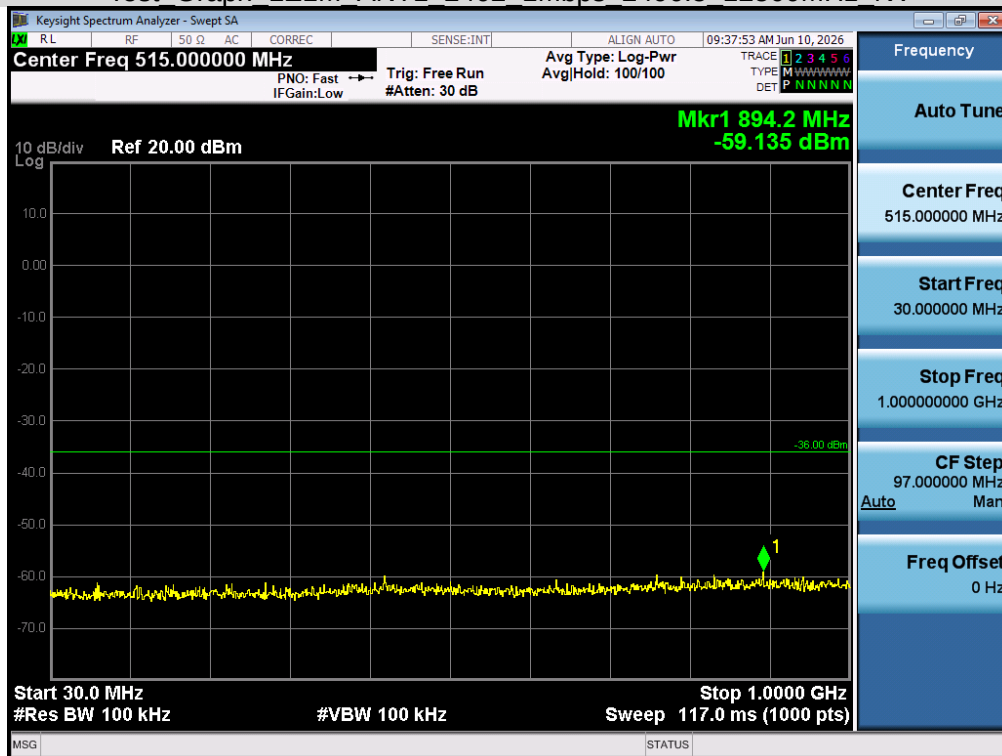
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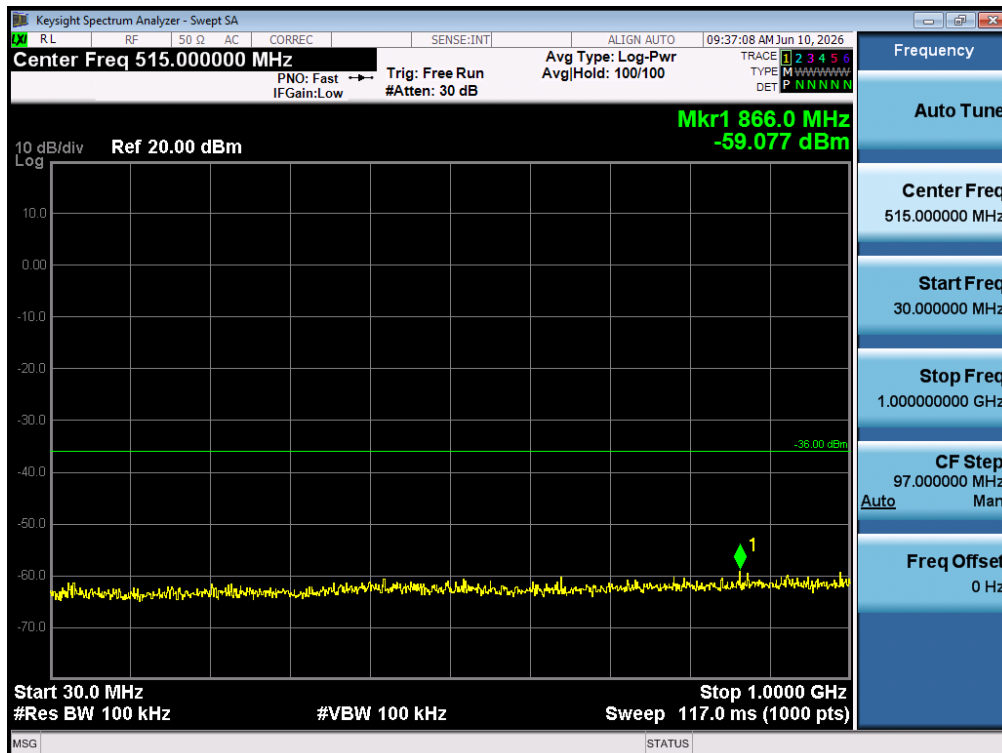
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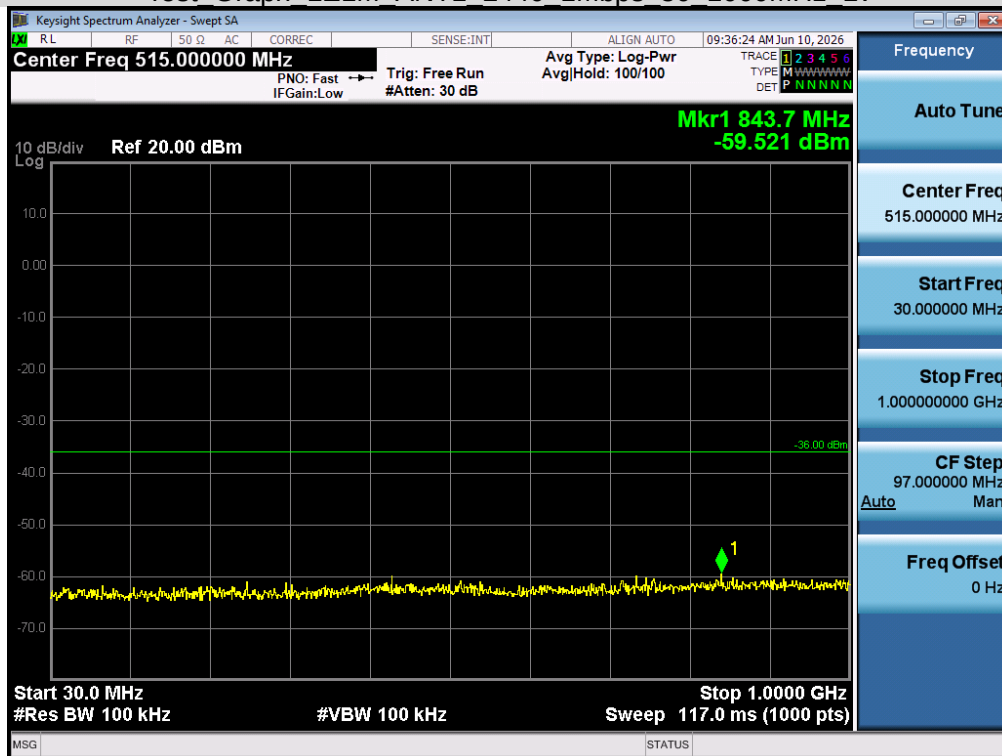
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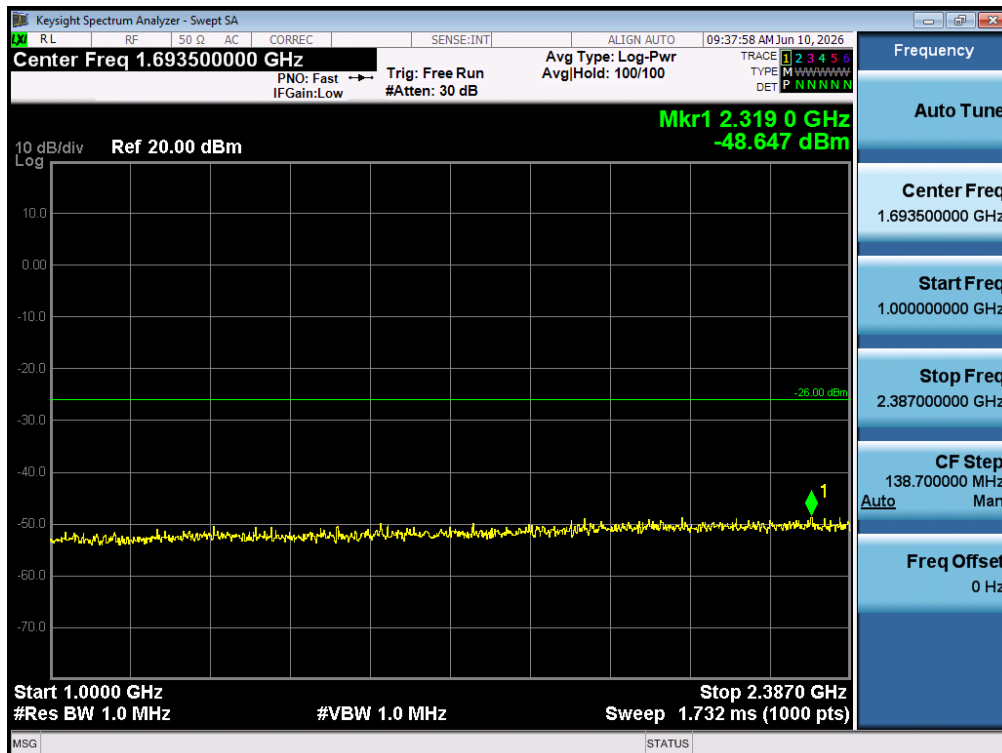


Test Graph LE1M ANT1 2440 1Mbps 30 1000MHz LV

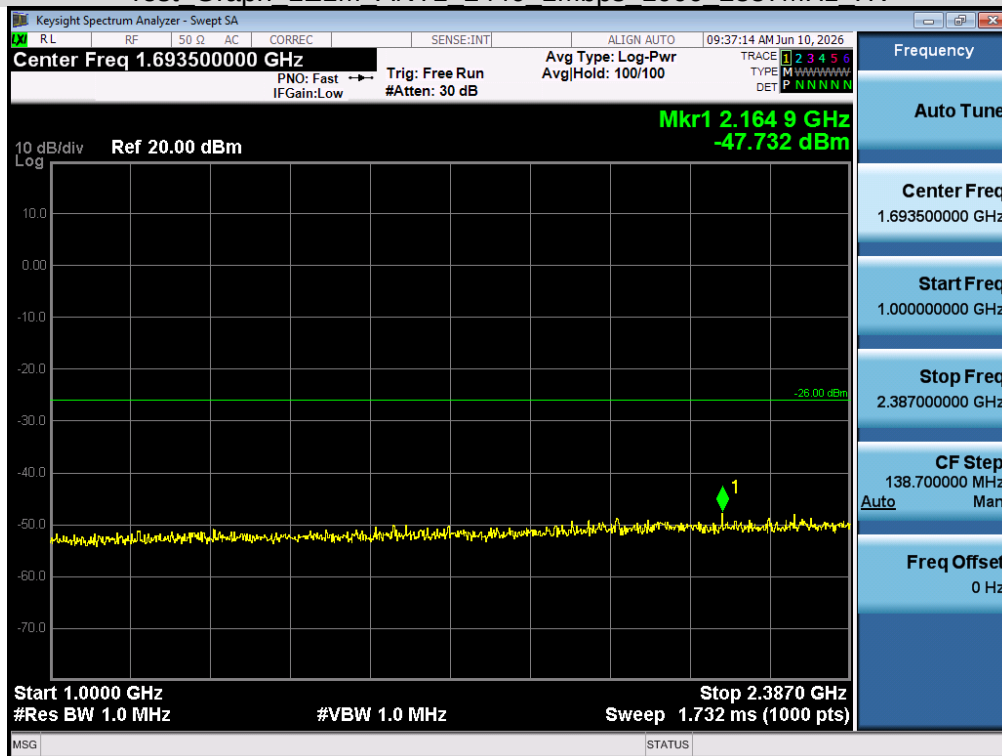


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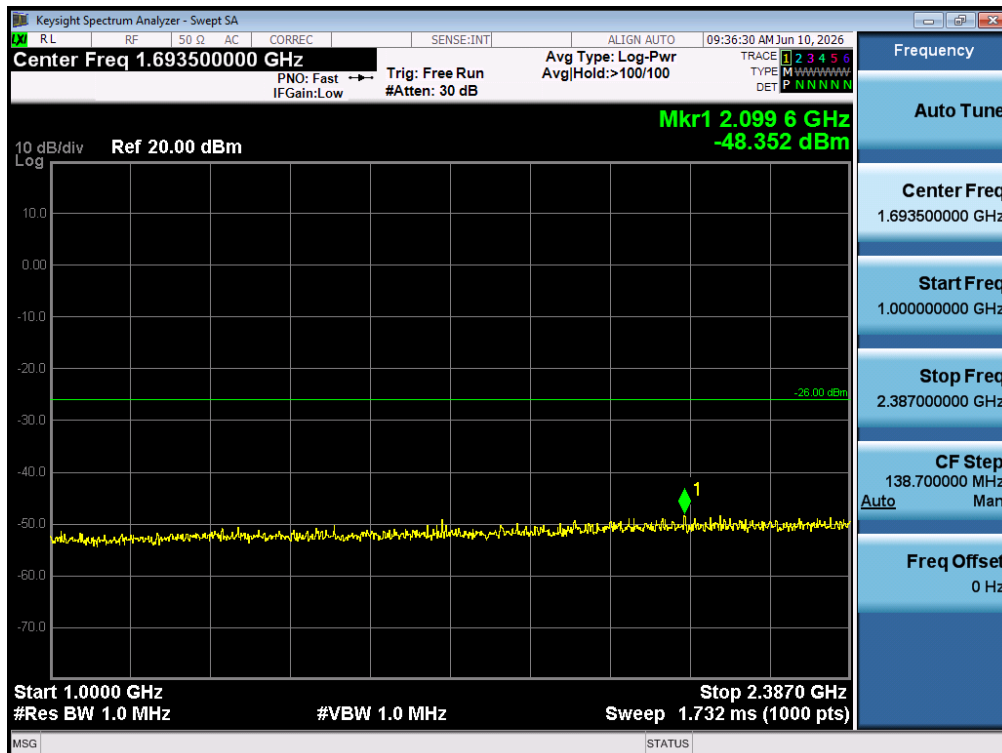
Test Graph LE1M ANT1 2440 1Mbps 1000 2387MHz HV



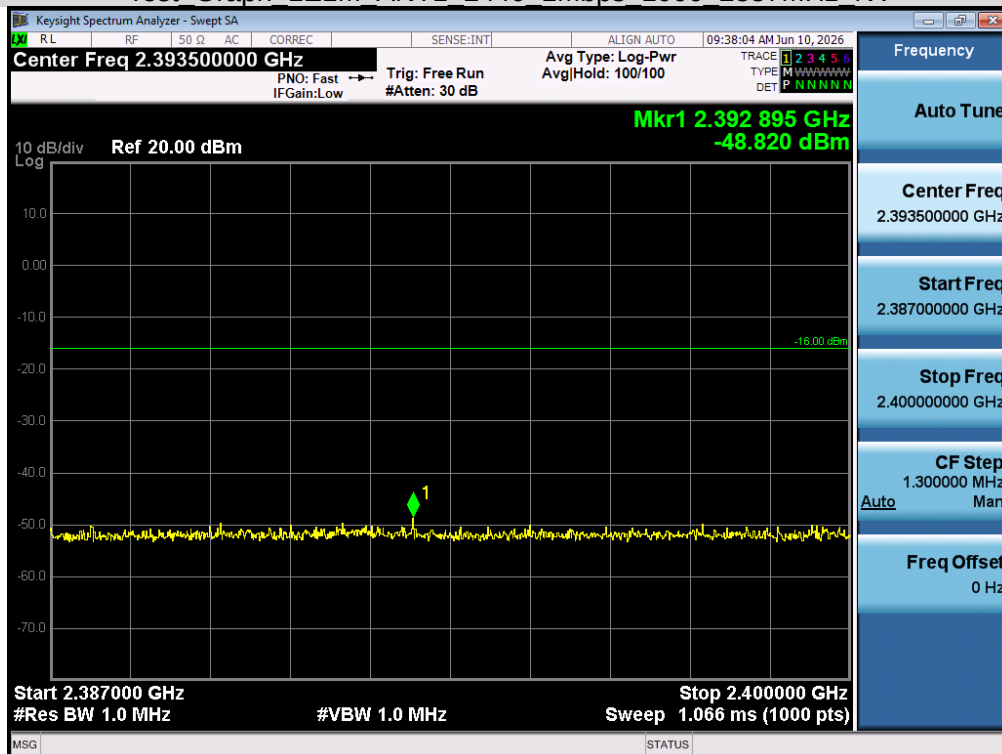
Test_Graph_LE1M_ANT1_2440_1Mbps_1000_2387MHz_LV

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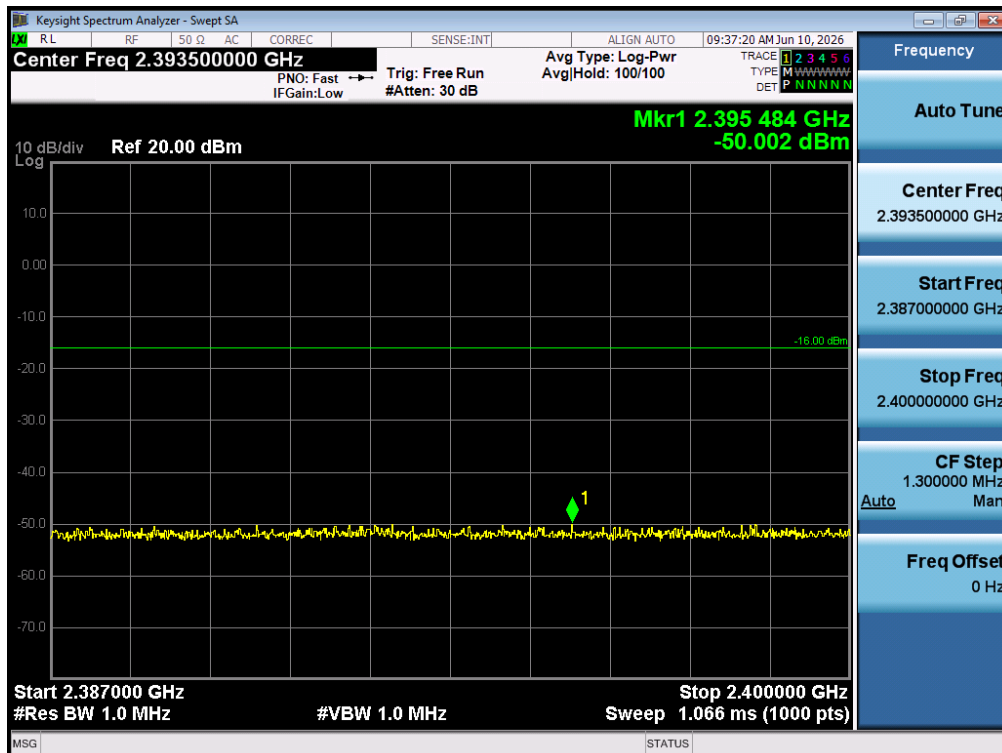


Test Graph LE1M ANT1 2440 1Mbps 1000 2387MHz NV

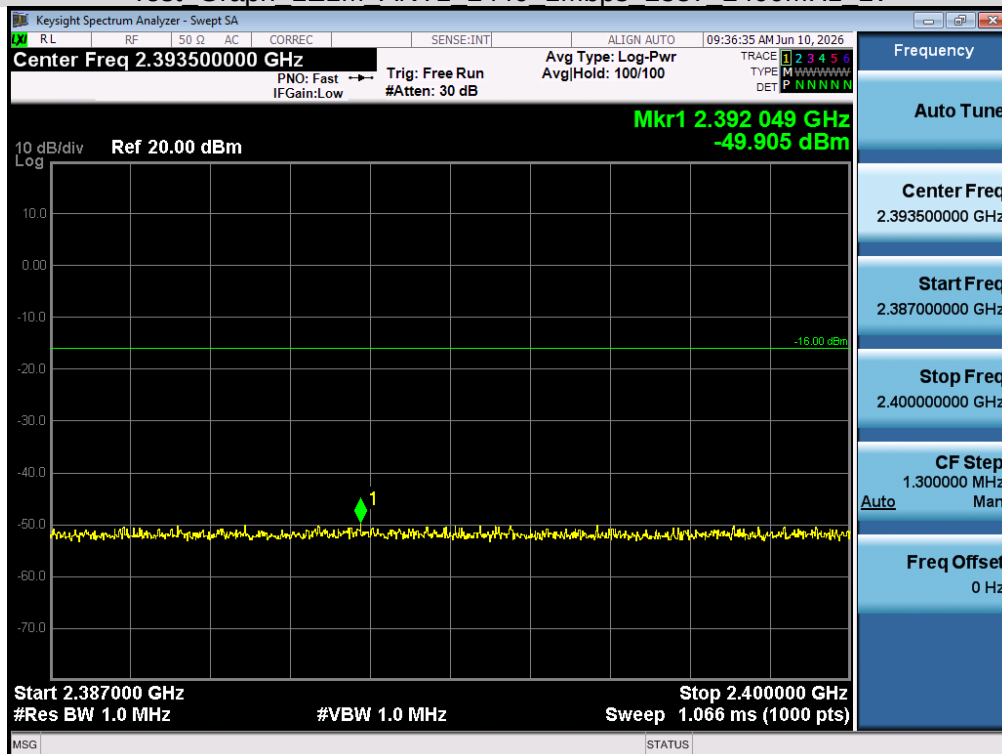


Test_Graph_LE1M_ANT1_2440_1Mbps_2387_2400MHz_HV

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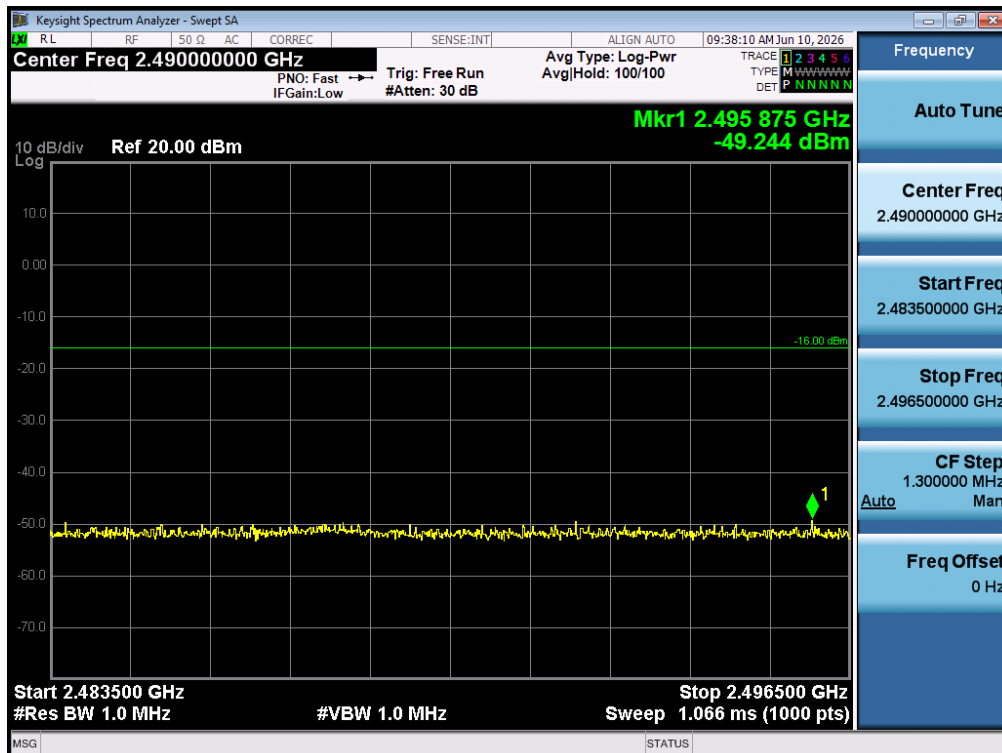
Test Graph LE1M ANT1 2440 1Mbps 2387 2400MHz LV



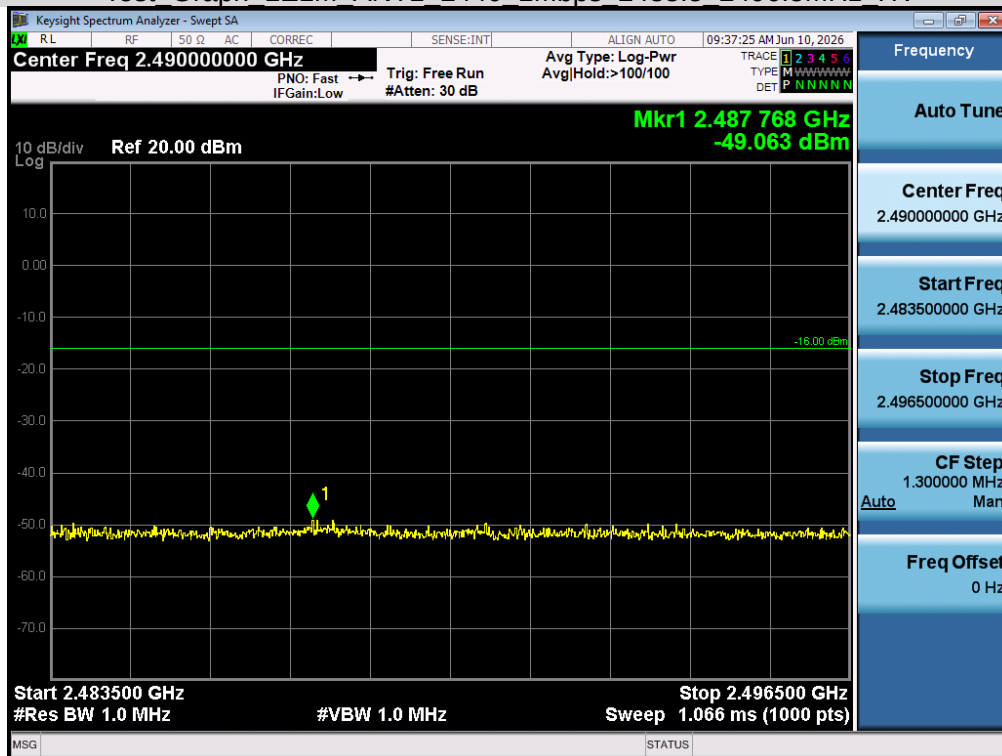
Test_Graph_LE1M_ANT1_2440_1Mbps_2387_2400MHz_NV

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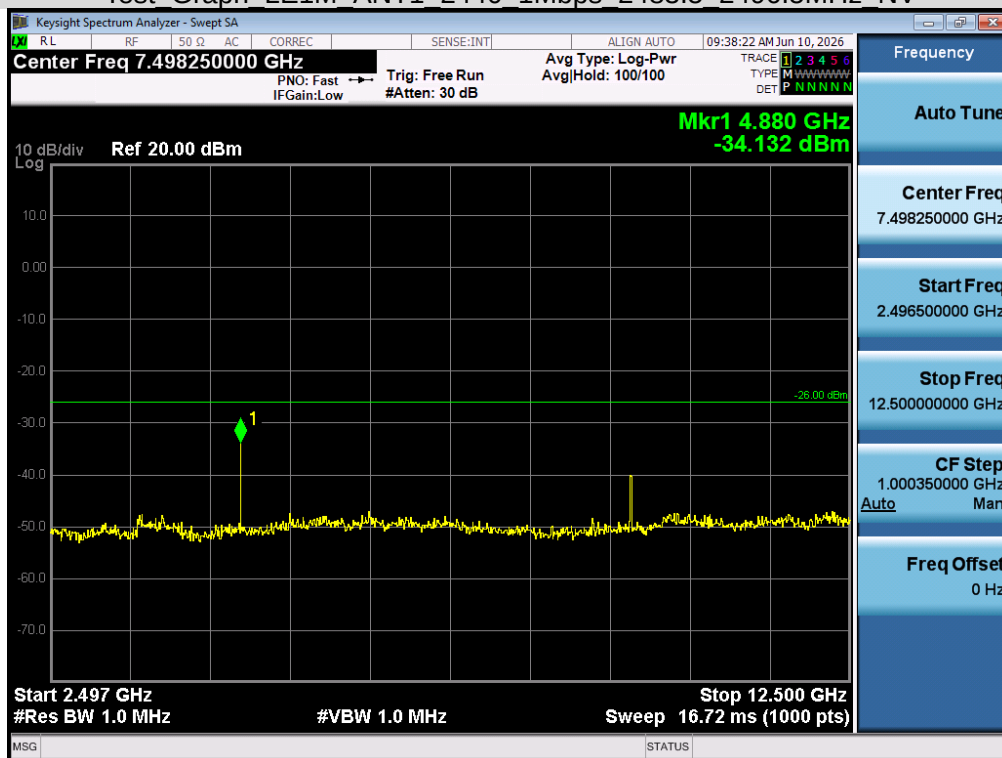
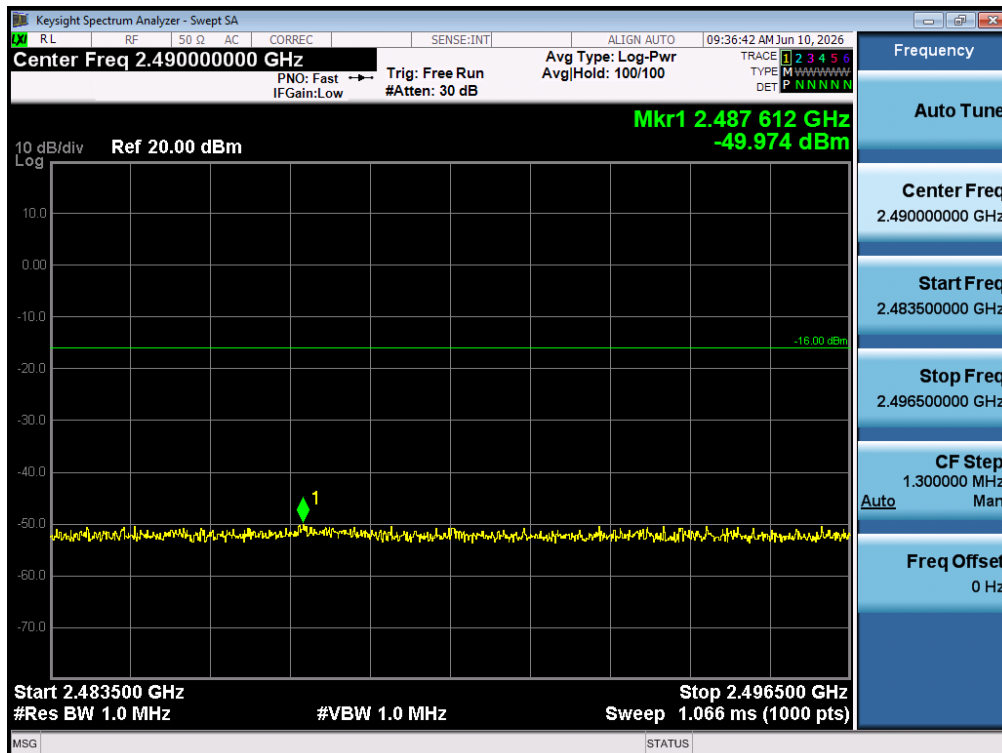
Test Graph LE1M ANT1 2440 1Mbps 2483.5 2496.5MHz HV



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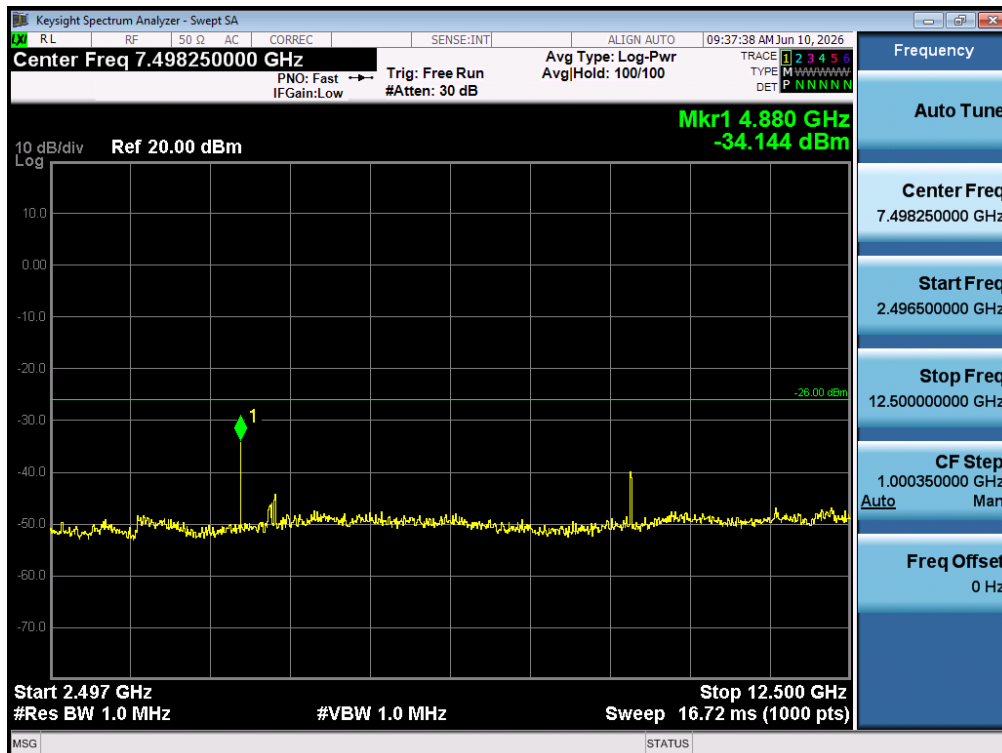
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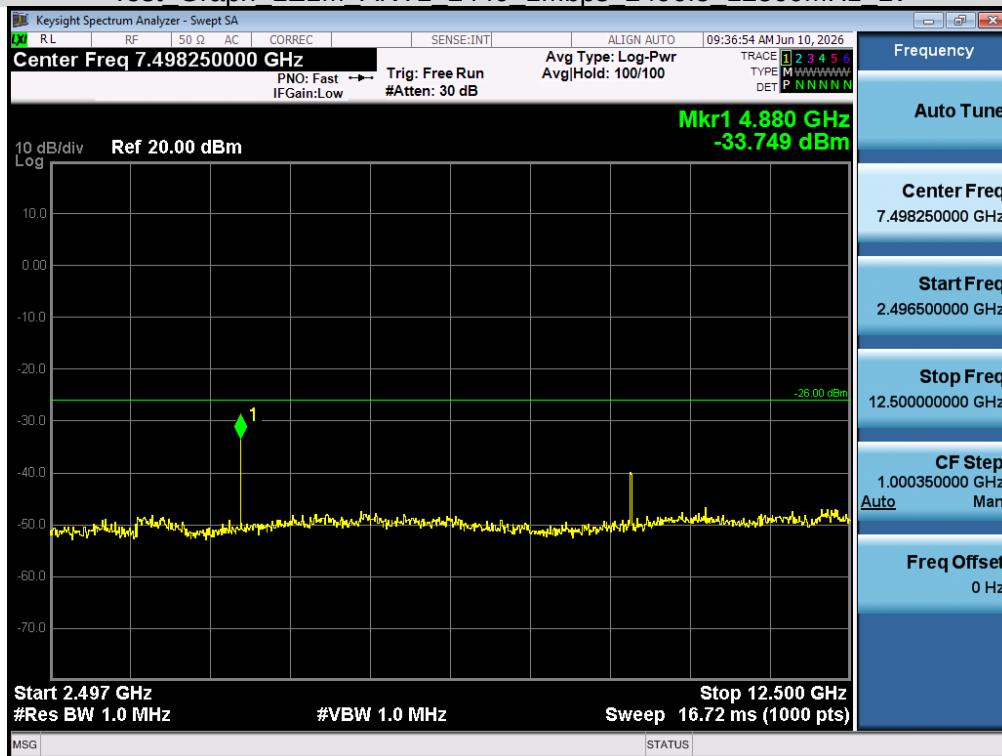


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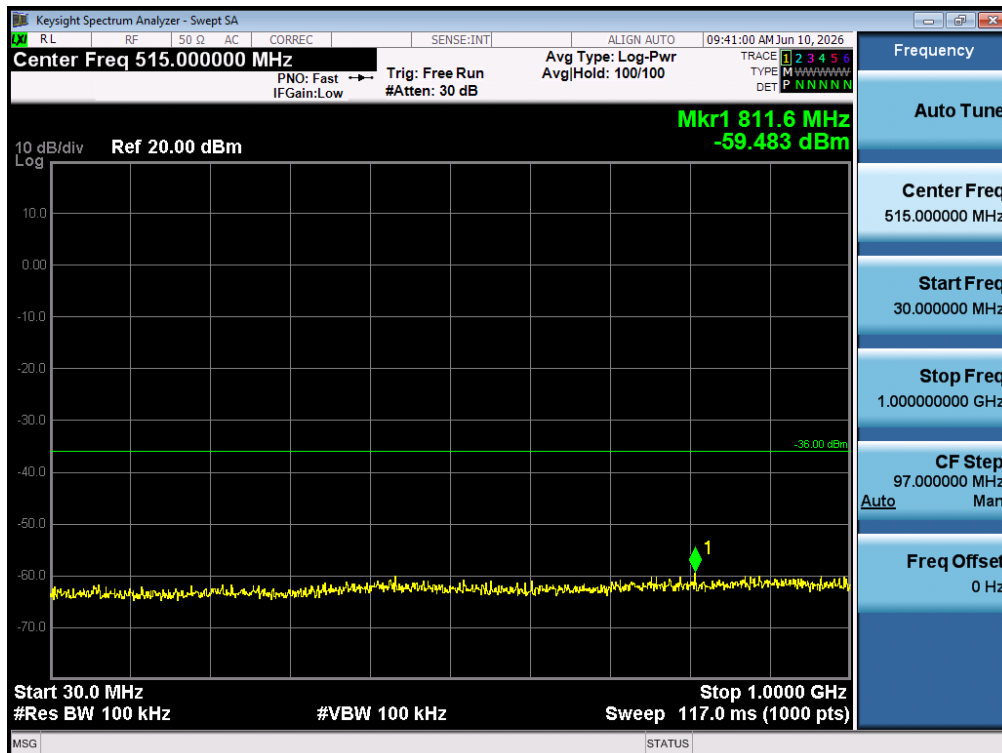
Test Graph LE1M ANT1 2440 1Mbps 2496.5 12500MHz LV



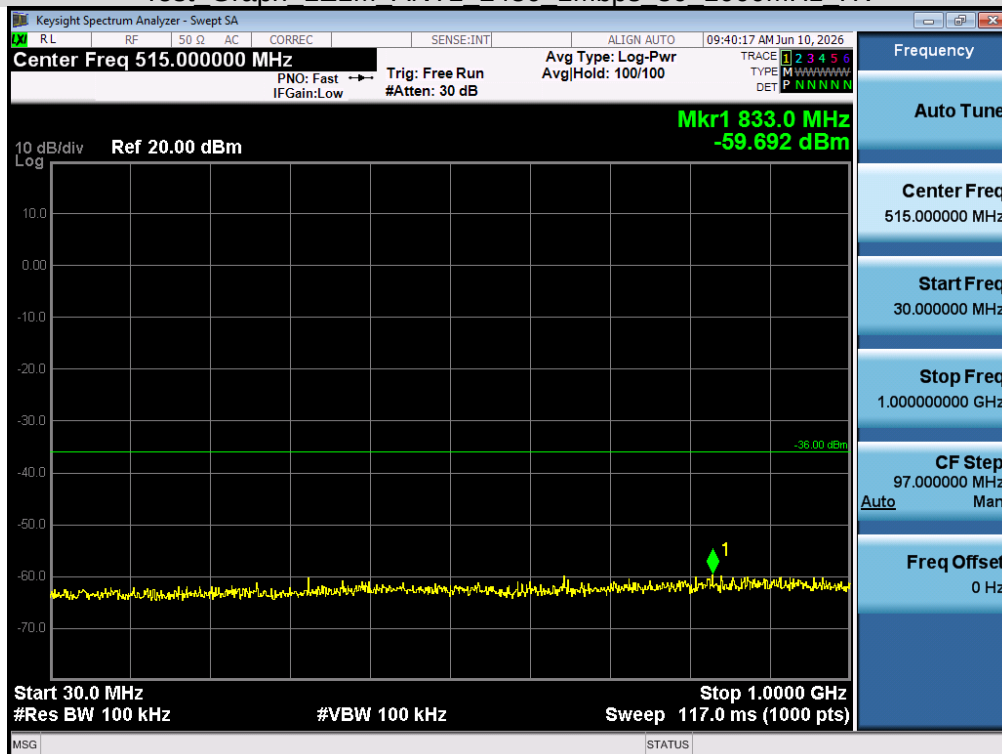
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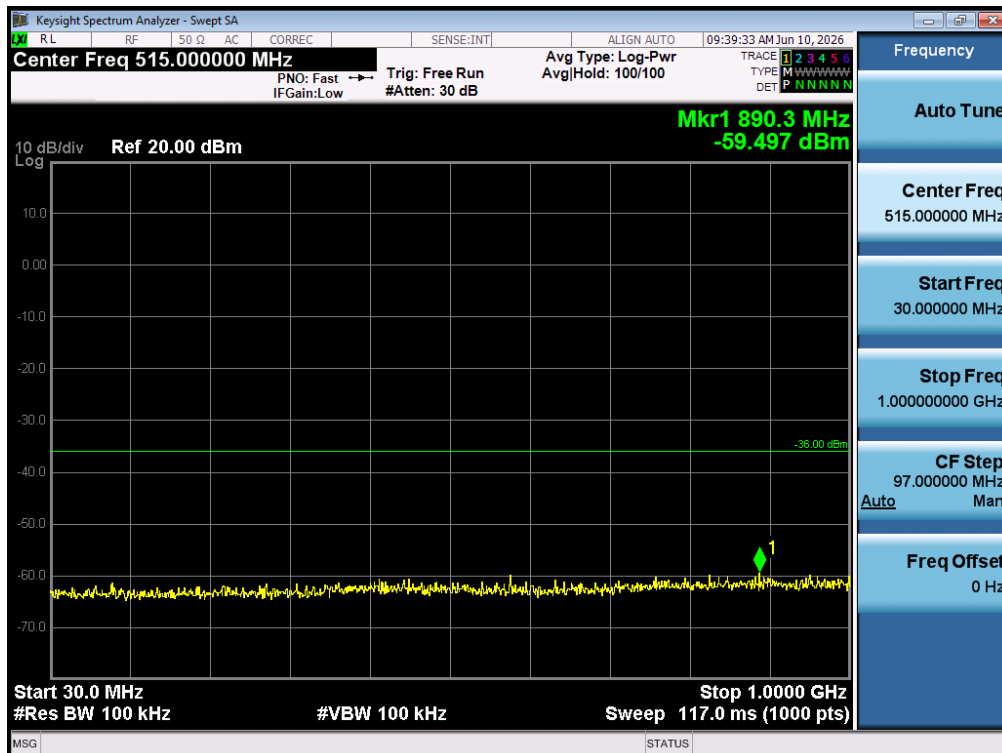
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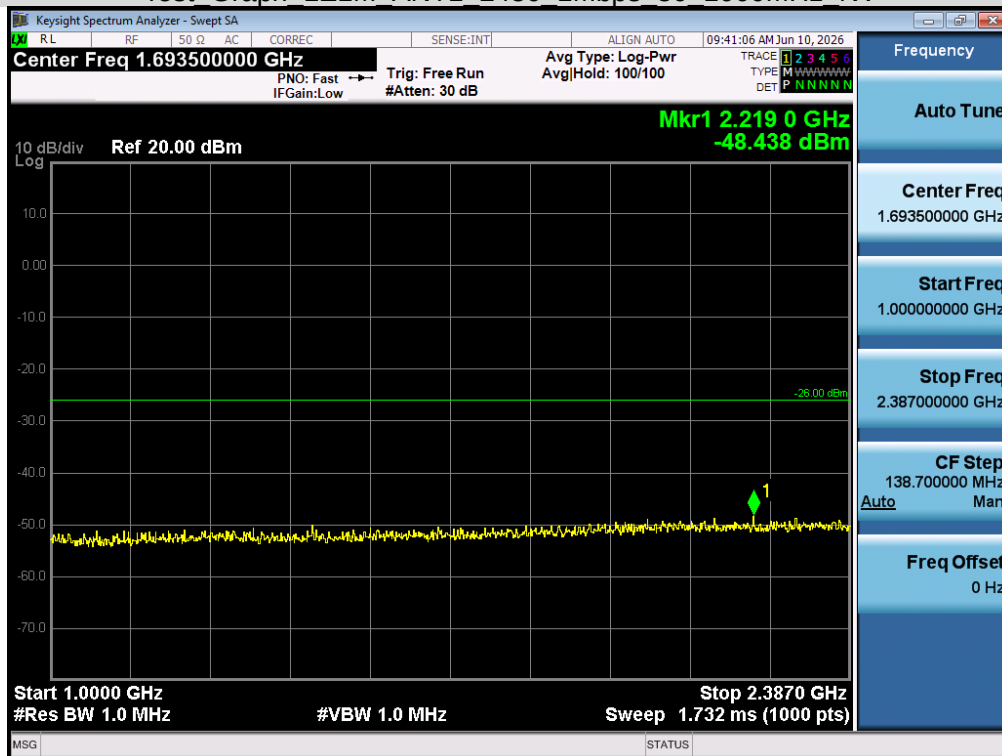
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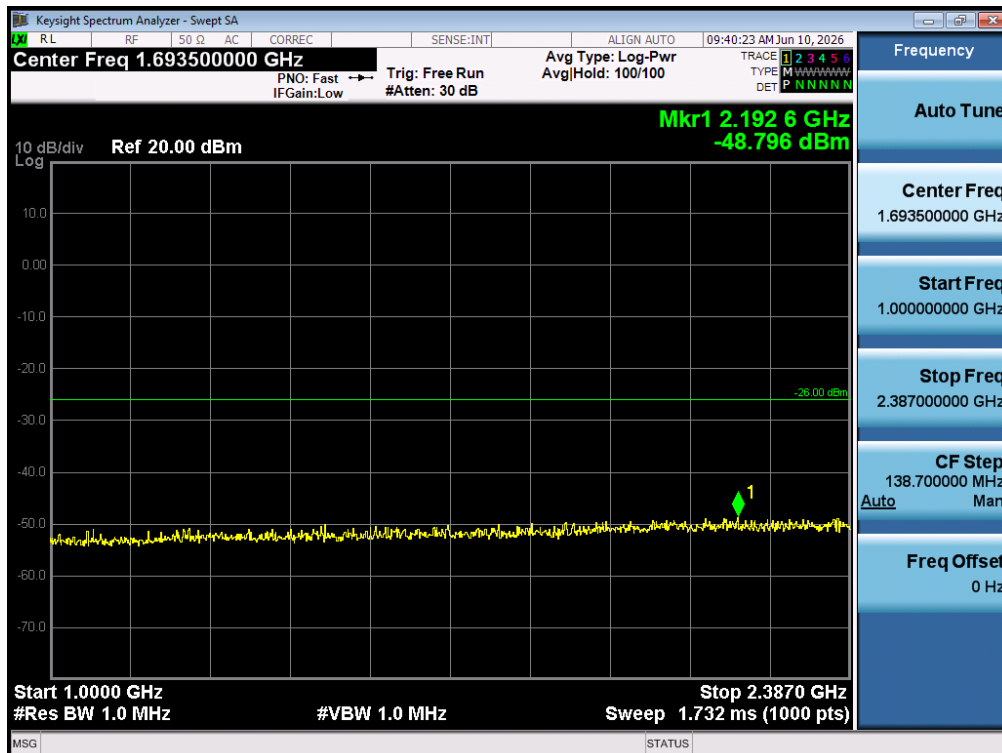


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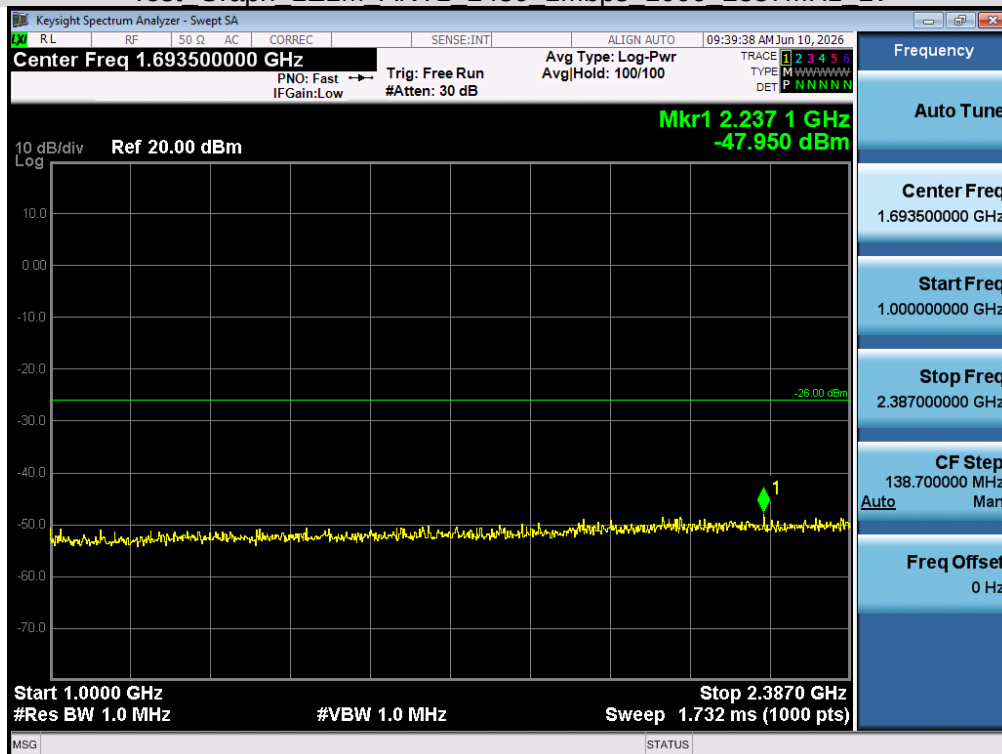


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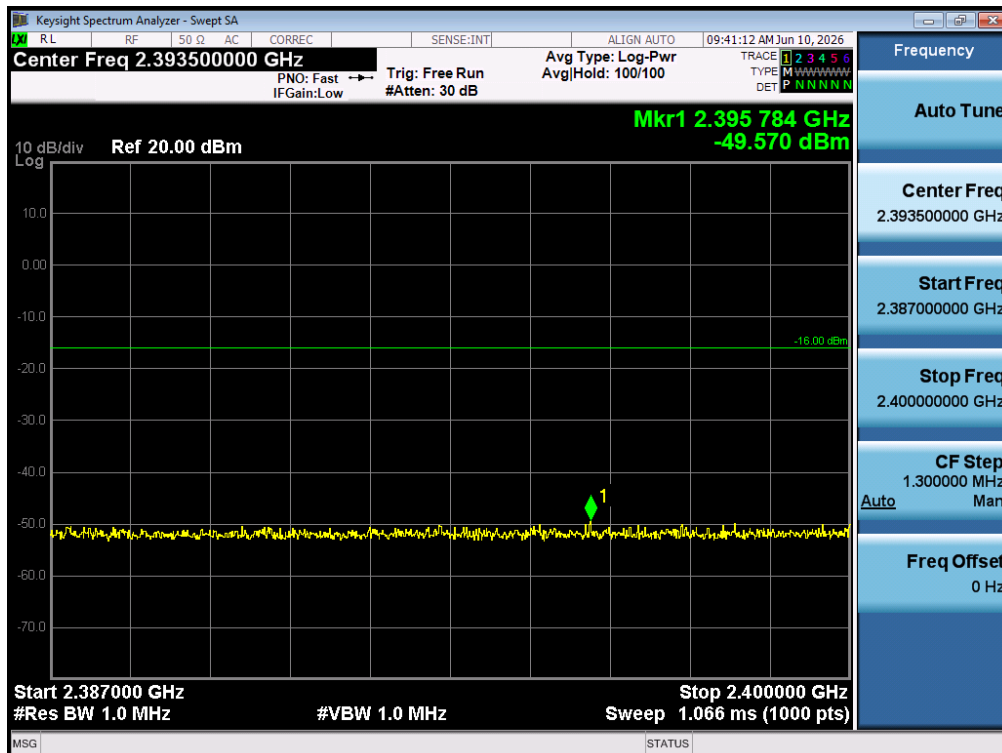
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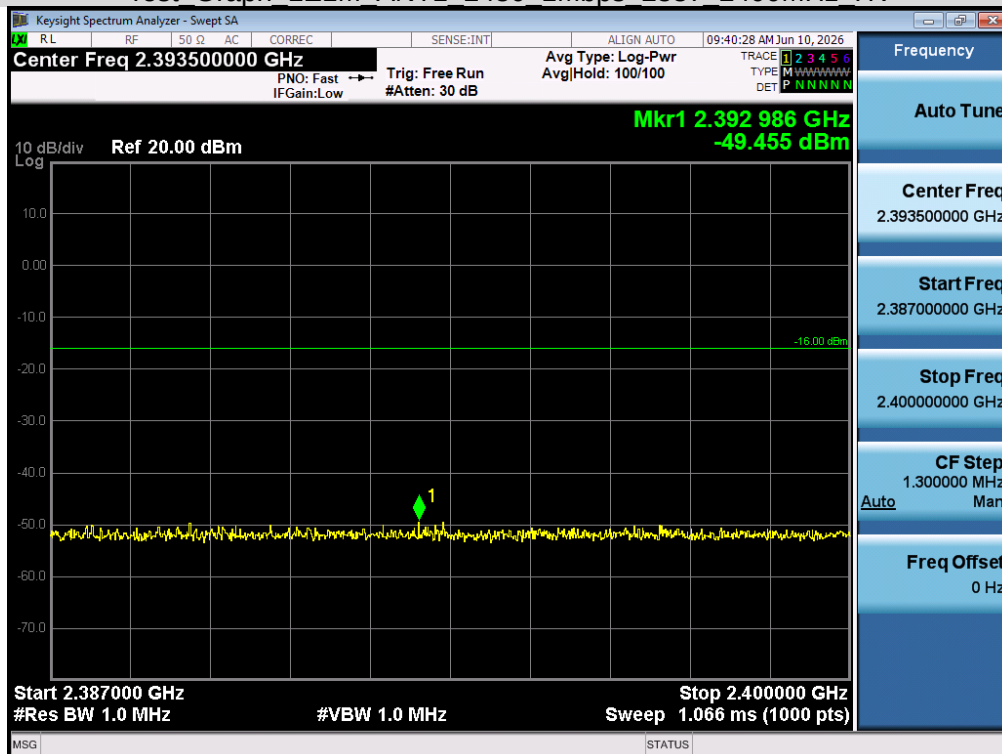
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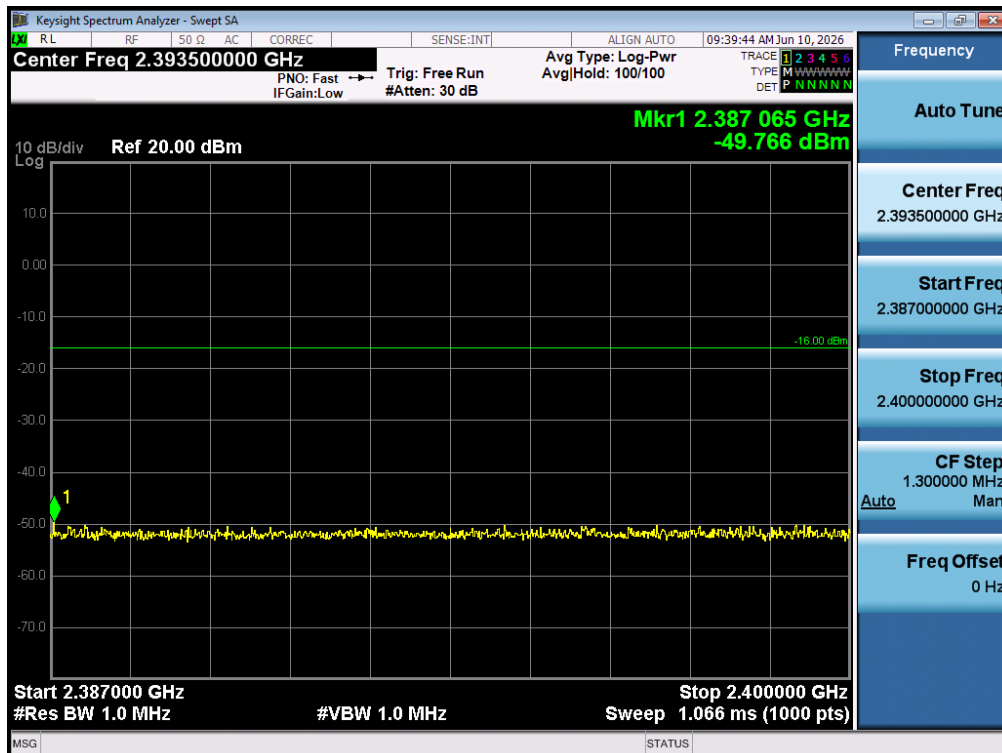
Test Graph LE1M ANT1 2480 1Mbps 2387 2400MHz HV



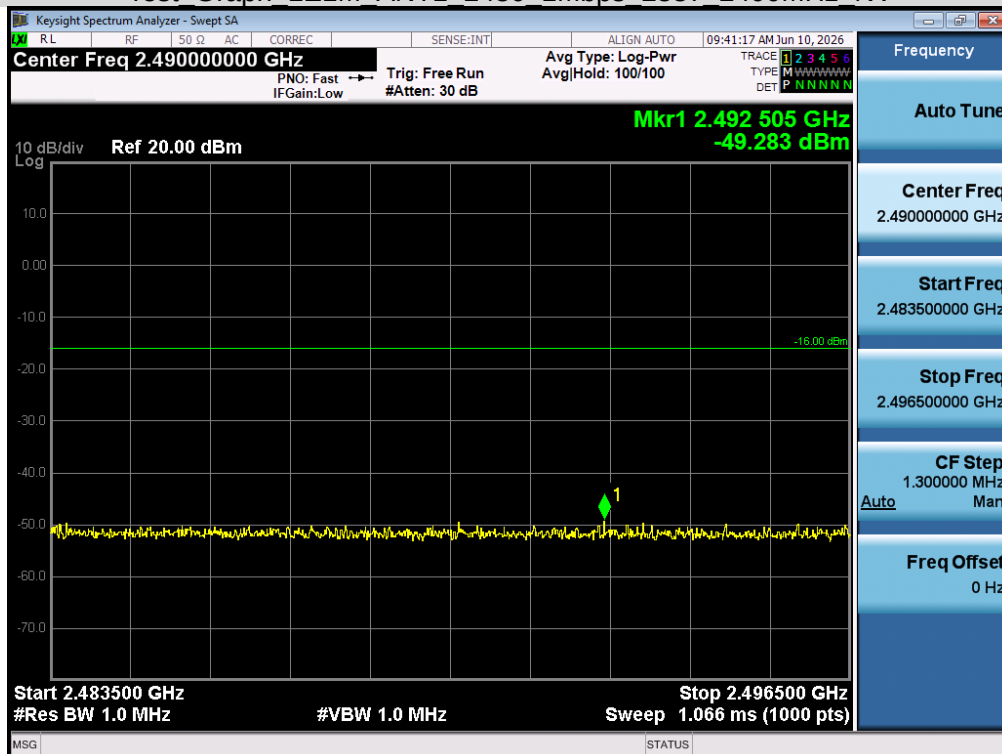
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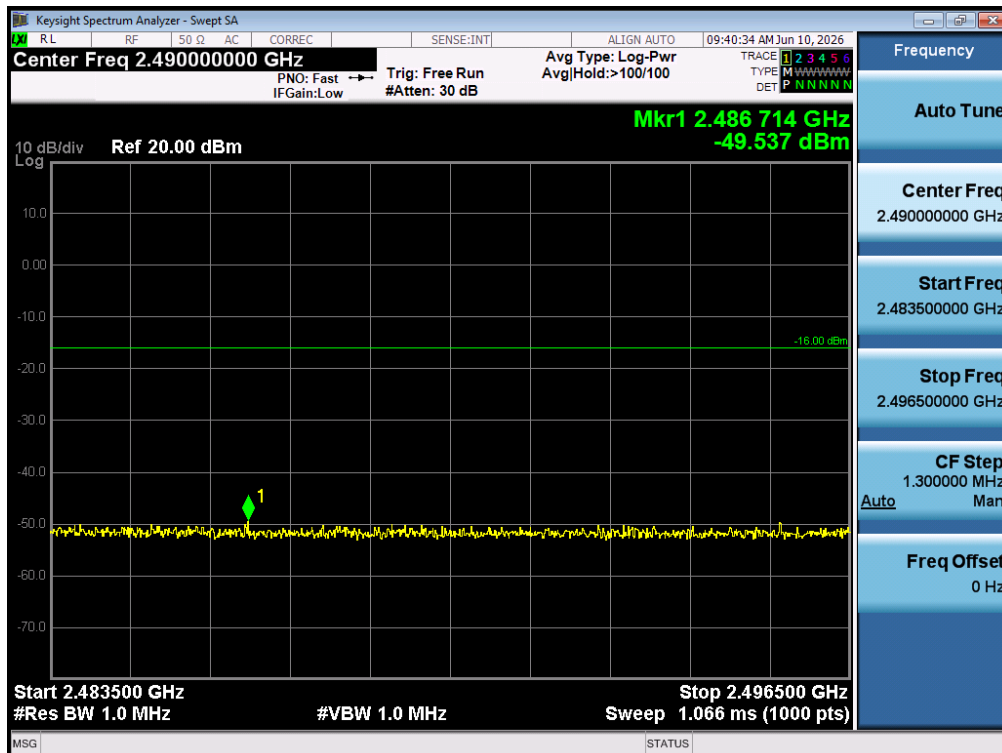
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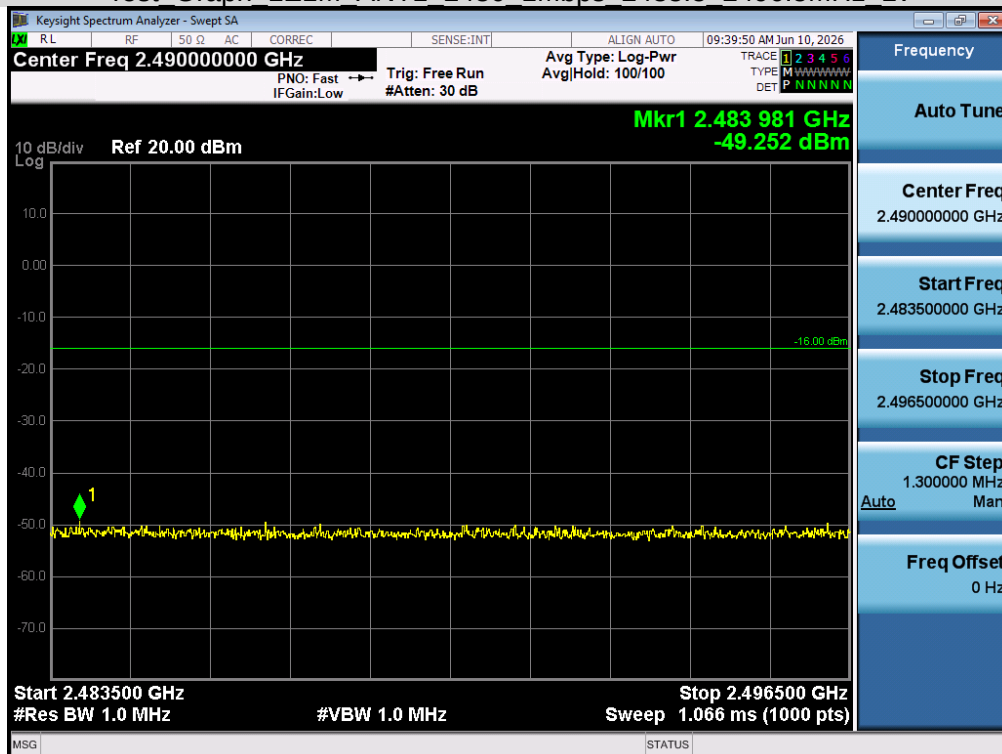
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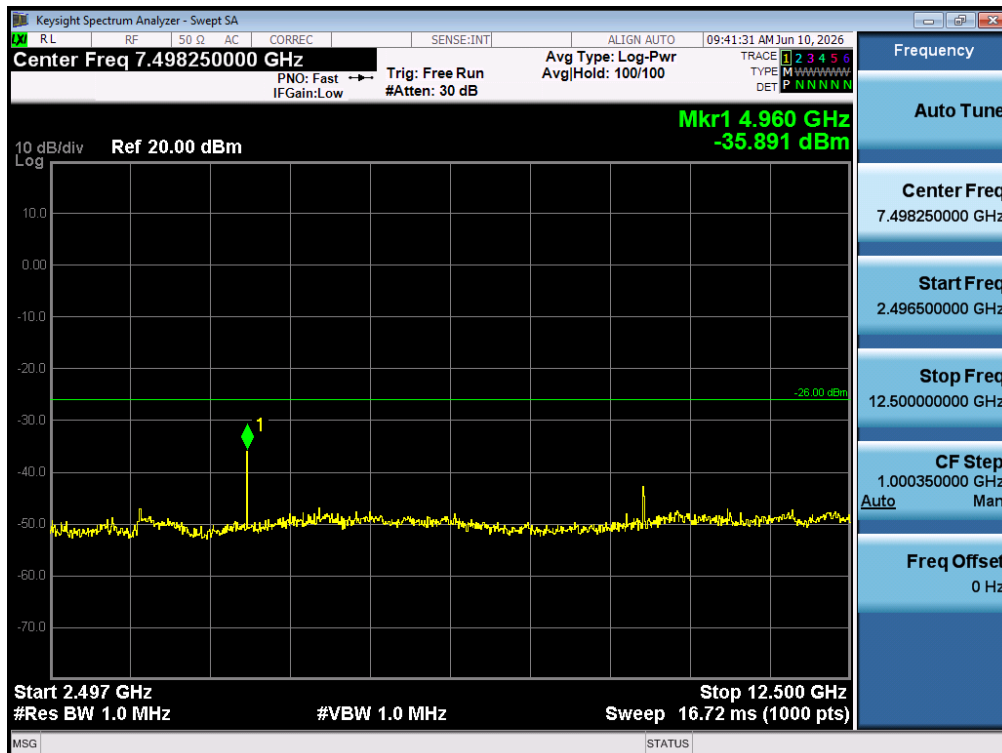
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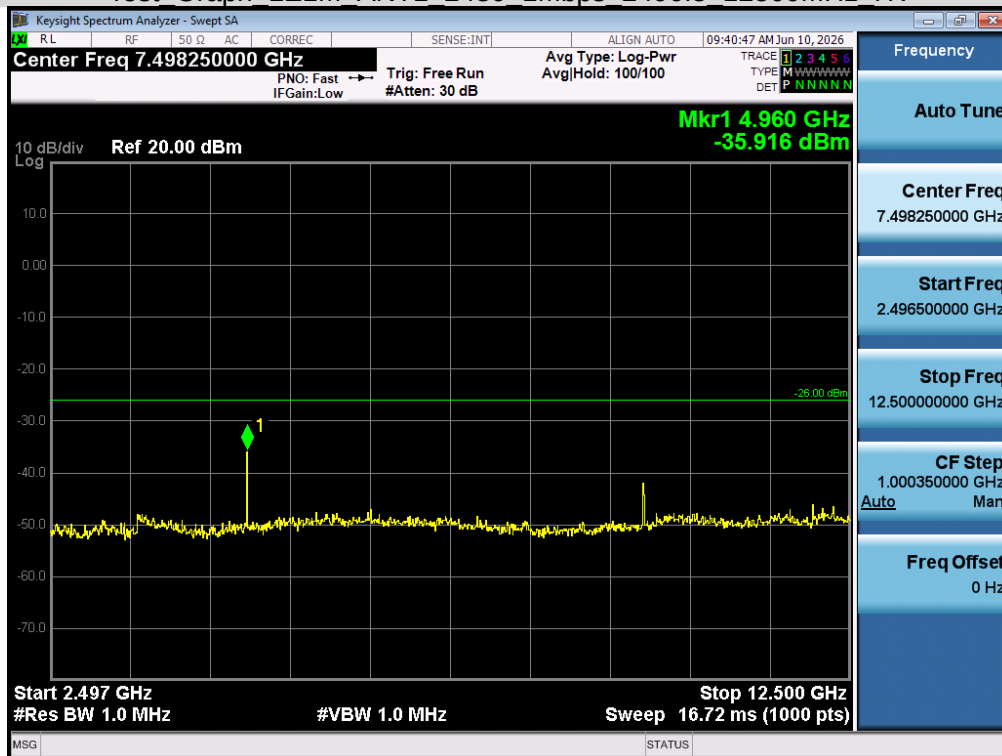
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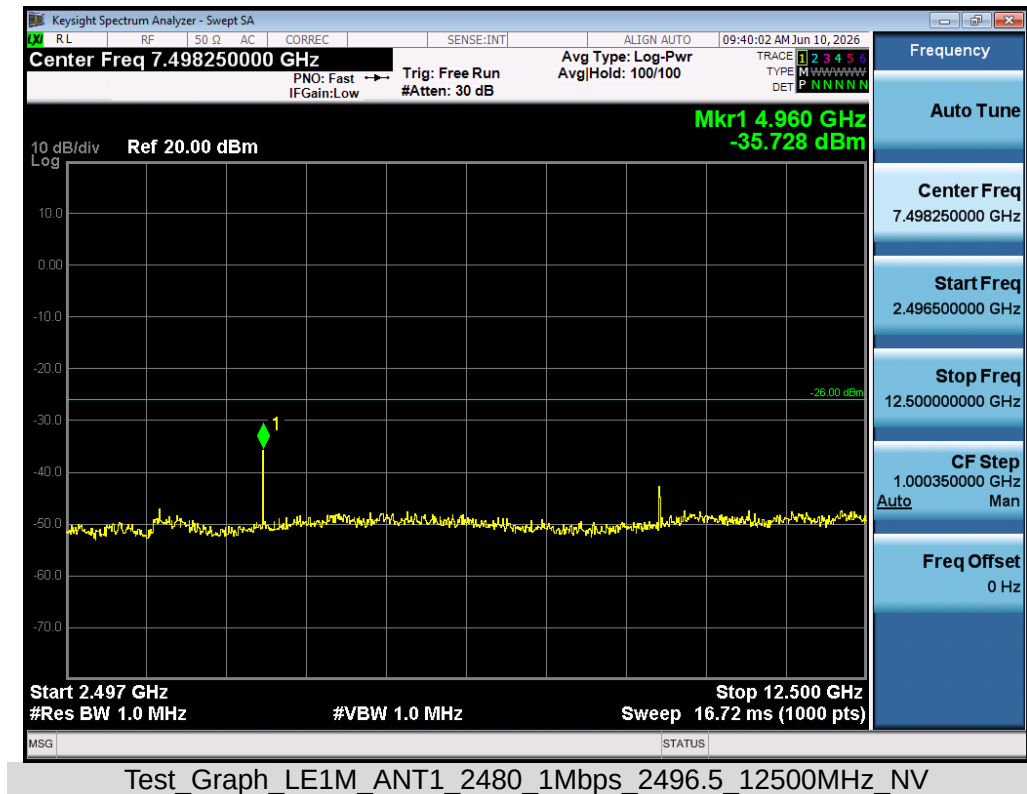
Test Graph LE1M ANT1 2480 1Mbps 2496.5 12500MHz HV



Test_Graph_LE1M_ANT1_2480_1Mbps_2496.5_12500MHz_LV

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5.4 Antenna Power Error Measurement

Test Limit

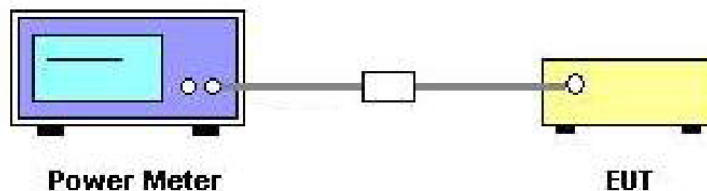
Test Item	Limits
Antenna Power	$\leq 3\text{mW/MHz}$ (FH system from 2400 to 2483.5MHz)
	$\leq 10\text{mW/MHz}$ (FH system from 2400 to 2427MHz)
	$\leq 10\text{mW/MHz}$ (FH system from 2470.75 to 2483.5MHz)
	$\leq 10\text{mW/MHz}$ (OFDM, DS 20MHz system)
	$\leq 10\text{mW}$ (Others)
	$\leq 5\text{mW}$ for OFDM (40 MHz system)
Antenna Power Error	+20% (Base on manufacturer declare antenna power density)

Test Procedure

- A. Connect a high-frequency power meter to the output of the dummy load (attenuator) and connect the device under test to measure the total power.
 - (a) The antenna power shall be as follows.
 - (b) When continuous wave, value of (a)
- B. For burst waves The average power within the burst is calculated from the value of A and the transmission time rate.

Note: Antenna power error refers to the definition of the power limit where the actual measured antenna power tolerance cannot exceed 20% based on the manufacturer's declared conducted power density.

Test Setup



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Test Result

Test Temperature	22.5℃	Relative Humidity	54.0%
Test Pressure	101kPa	Test Engineer	Vicky Huang
Testing Time	2026-06-10		

Test Data of Antenna Power					
Test Mode	Antenna Power (mW)			Limit (mW)	P/F
	NV	LV	HV		
LE1M_2402_1Mbps	0.463	0.462	0.463	10	Pass
LE1M_2440_1Mbps	0.591	0.592	0.594	10	Pass
LE1M_2480_1Mbps	0.820	0.819	0.818	10	Pass

Test Data of Antenna Power Error						
Test Mode	Rated power (mW)	Antenna Power Error (%)			Limit (%)	P/F
		NV	LV	HV		
LE1M_2402_1Mbps	1	-53.70	-53.80	-53.70	20	Pass
LE1M_2440_1Mbps	1	-40.90	-40.80	-40.60	20	Pass
LE1M_2480_1Mbps	1	-18.00	-18.10	-18.20	20	Pass

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5.5 EIRP Antenna Power Measurement

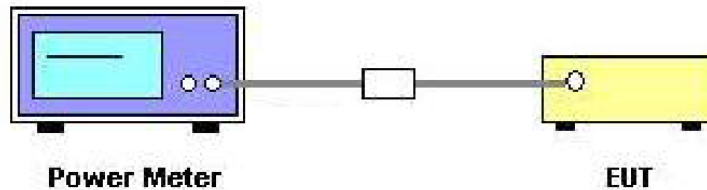
Test Limit

Test Item	Limits
EIRP Antenna Power	$\leq 6.91\text{dBm/MHz}$ (FH system)
	$\leq 12.14\text{dBm/MHz}$ (FH system from 2400 to 2427MHz)
	$\leq 12.14\text{dBm/MHz}$ (FH system from 2470.75 to 2483.5MHz)
	$\leq 12.14\text{dBm}$ (Others)
	$\leq 9.13\text{dBm/MHz}$ (OFDM 40MHz system)

Test Procedure

- A. Connect a high-frequency power meter to the output of the dummy load (attenuator) and connect the device under test to measure the total power.
 - a) The antenna power shall be as follows.
 - b) When continuous wave, value of (a)
- B. For burst waves The average power within the burst is calculated from the value of A and the transmission time rate.

Test Setup



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Test Result

Test Temperature	22.5°C	Relative Humidity	54.0%
Test Pressure	101kPa	Test Engineer	Vicky Huang
Testing Time	2026-06-10		

Test Data of E.I.R.P.									
Test Mode	Antenna Power (dBm)			Antenna Gain (dBi)	E.I.R.P. (dBm)			Limit (dBm)	P/F
	NV	LV	HV		NV	LV	HV		
LE1M_2402_1Mbps	-3.34	-3.35	-3.34	1.4	-1.94	-1.95	-1.94	12.14	Pass
LE1M_2440_1Mbps	-2.28	-2.28	-2.26	1.4	-0.88	-0.88	-0.86	12.14	Pass
LE1M_2480_1Mbps	-0.86	-0.87	-0.87	1.4	0.54	0.53	0.53	12.14	Pass

Note: E.I.R.P. (dBm) = Antenna Power (dBm) + Antenna Gain (dBi).

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5.6 Secondary Radiated Emission Strength Measurement

Test Limit

Test Item	Limits
Secondary Radiated Emission Strength	$\leq 4\text{nW}$ ($f < 1000\text{MHz}$)
	$\leq 20\text{nW}$ ($1000\text{MHz} \leq f$)

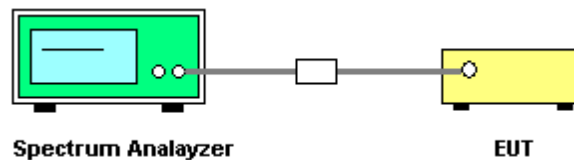
Test Procedure

The following table is the setting of spectrum analyzer.

Spectrum Parameter	Setting
RB / VB	Below 1GHz RB:100KHz / VB:100KHz Above 1GHz RB:1MHz / VB:1MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- EUT have the continuous reception mode and fixed only one channelize.
- Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
- SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW
- Convert from dBm to nW: $P(\text{nW}) = 1000000 * 10^{[P(\text{dBm})/10]}$

Test Setup



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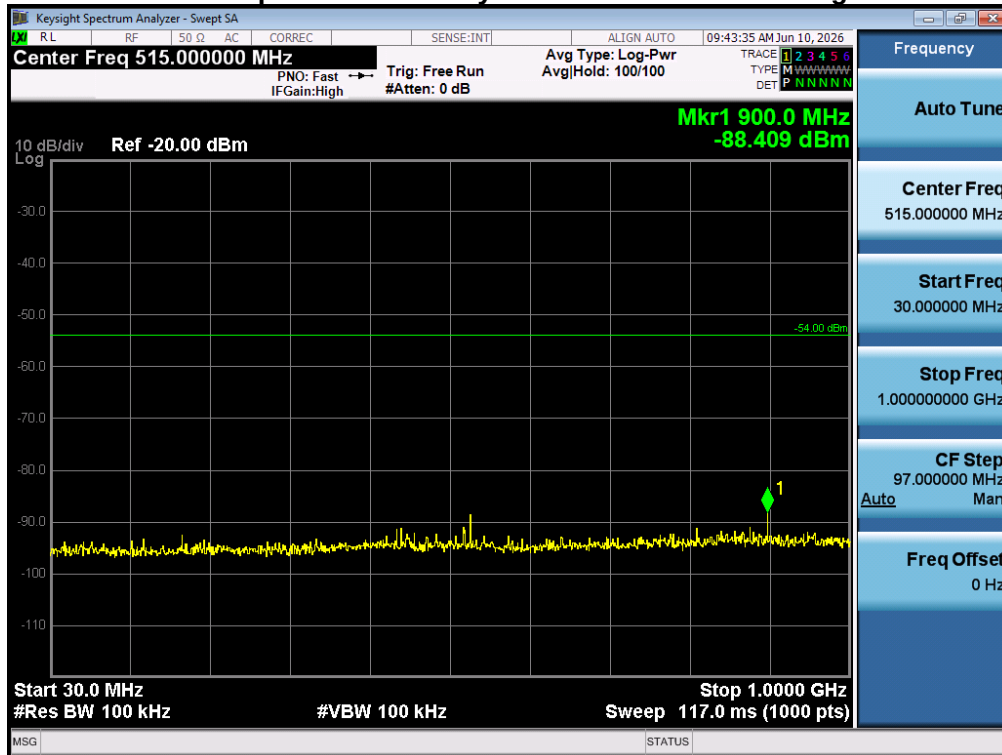
Test Result

Test Temperature	22.5℃	Relative Humidity	54.0%
Test Pressure	101kPa	Test Engineer	Vicky Huang
Testing Time	2026-06-10		

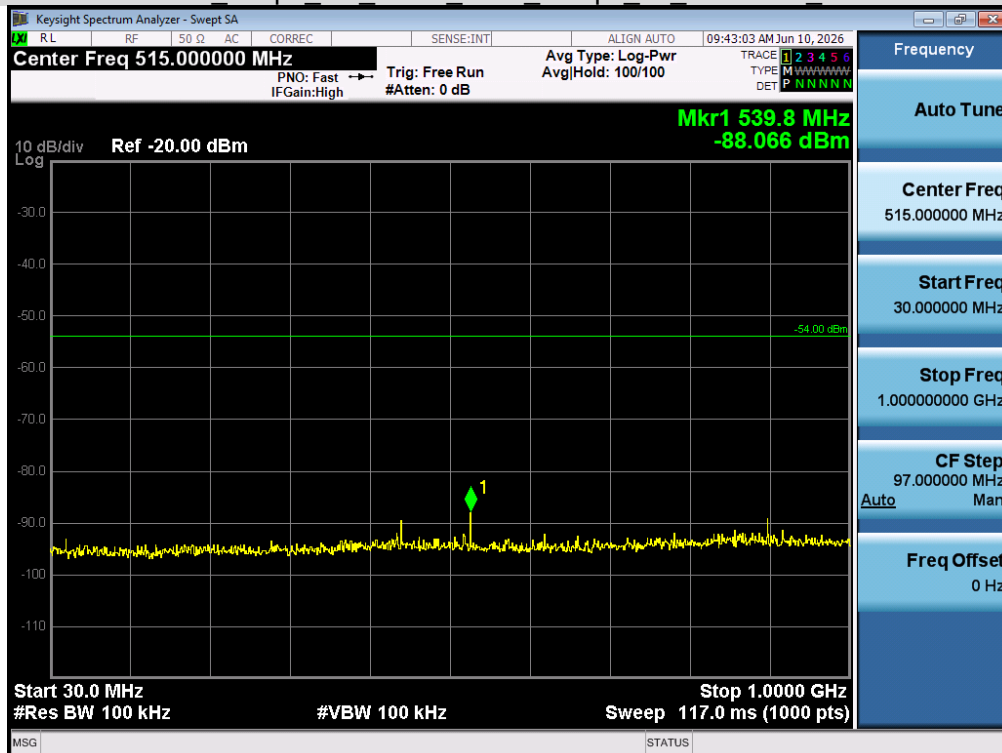
Test Data of Secondary Radiated Emission Strength								
Voltage	Mode	Channel (MHz)	Frequency Range (MHz)	Frequency (MHz)	Result (dBm)	Result (nW)	Limit (nW)	P/F
NV	RX	2402	30~1000	539.8	-87.923	0.002	4	Pass
NV	RX	2402	1000~12500	4798.8	-55.585	2.764	20	Pass
LV	RX	2402	30~1000	539.8	-88.066	0.002	4	Pass
LV	RX	2402	1000~12500	4798.8	-55.623	2.74	20	Pass
HV	RX	2402	30~1000	900.0	-88.409	0.001	4	Pass
HV	RX	2402	1000~12500	4798.8	-55.57	2.773	20	Pass

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Test Graphs of Secondary Radiated Emission Strength



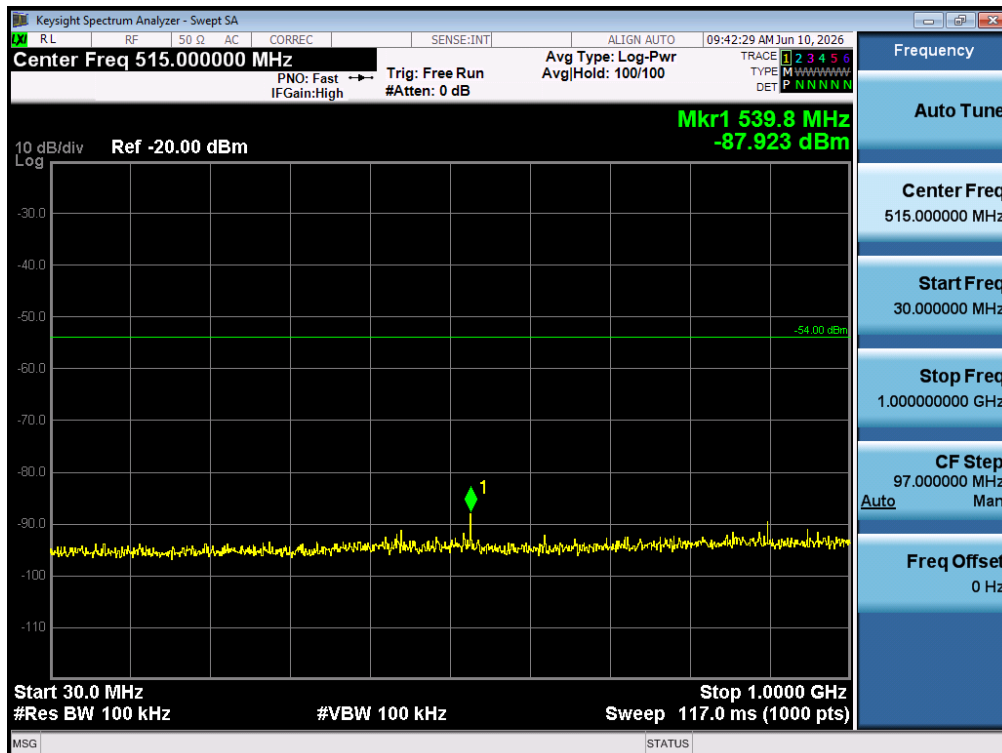
Test Graph RX ANT1_2402_1Mbps_30_1000MHz_HV



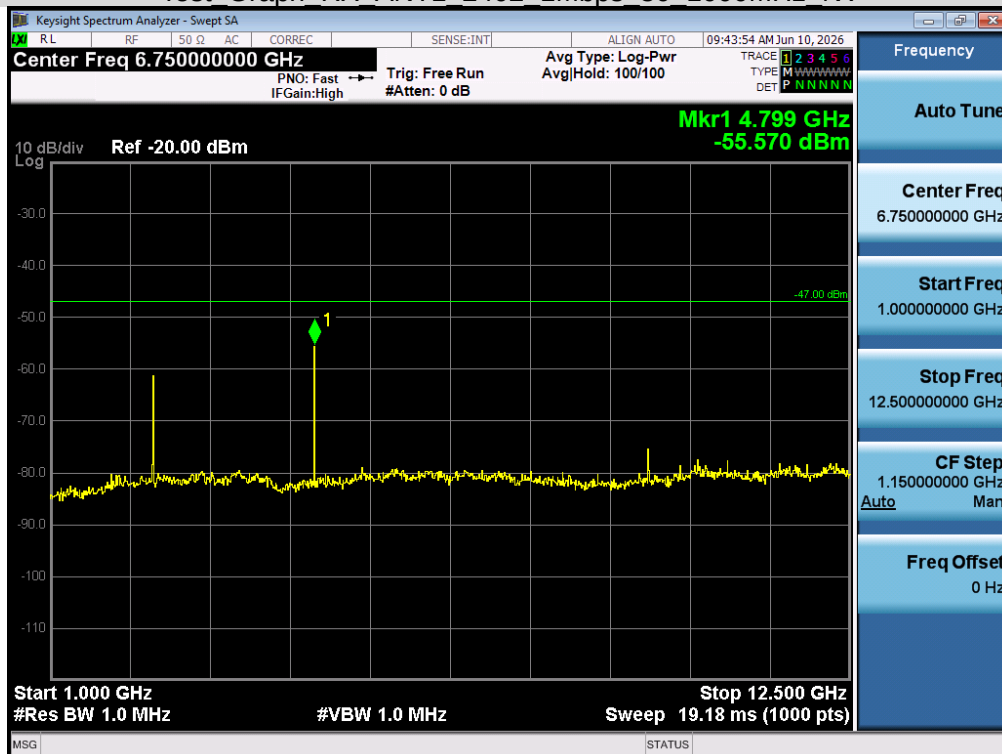
Test_Graph_RX_ANT1_2402_1Mbps_30_1000MHz_LV

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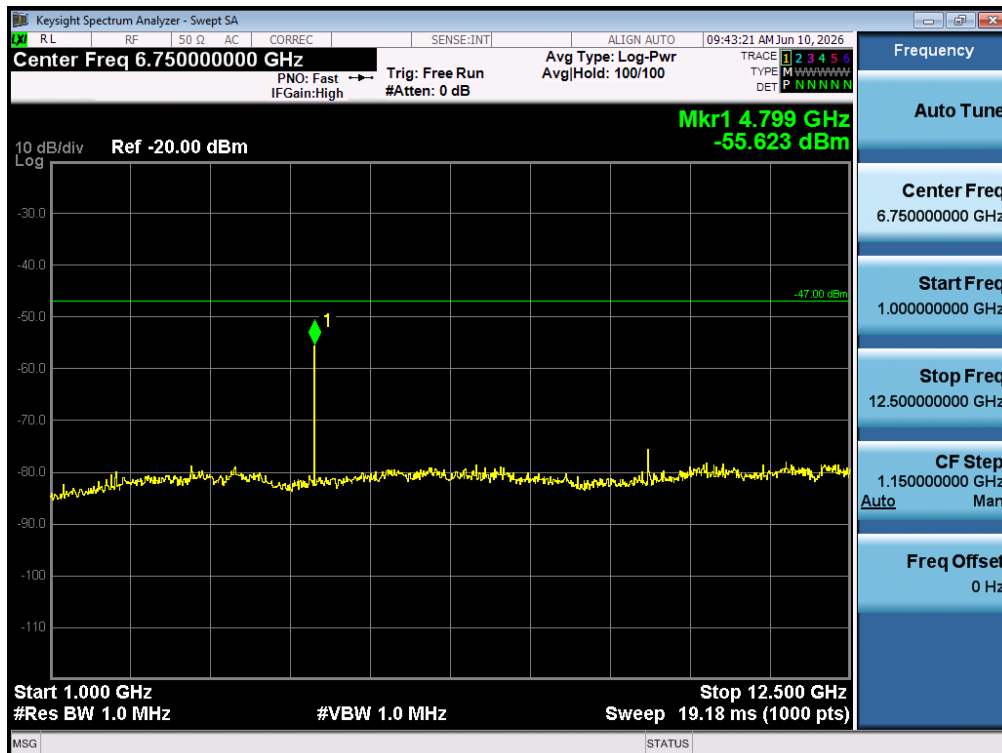
Test Graph RX ANT1 2402 1Mbps 30 1000MHz NV



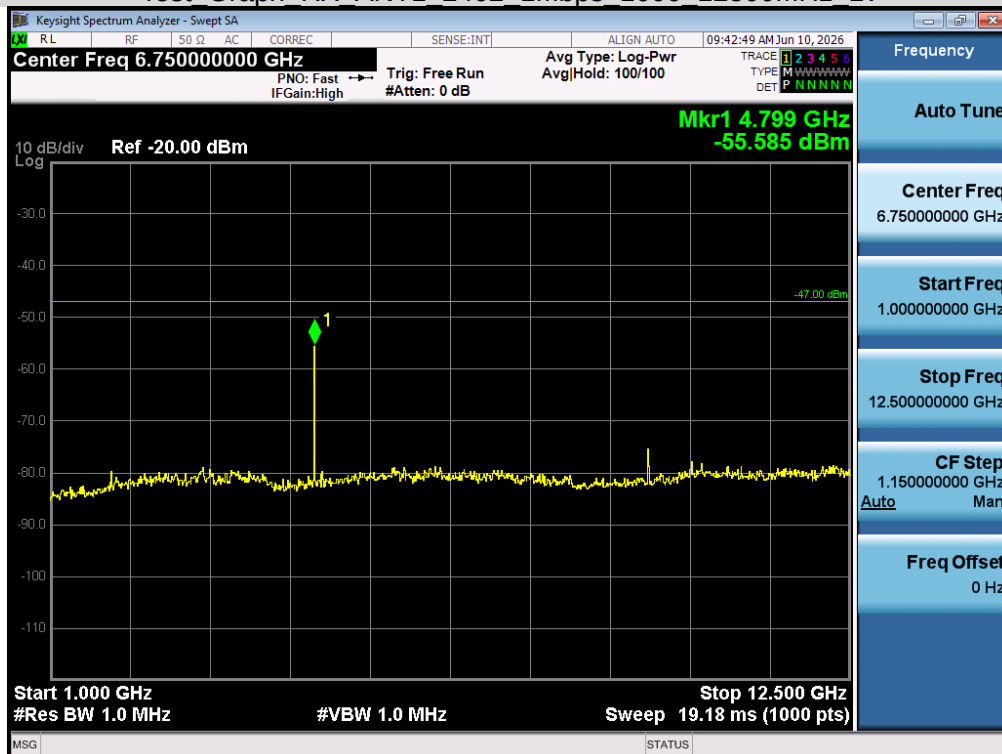
Test_Graph_RX_ANT1_2402_1Mbps_1000_12500MHz_HV

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Test Graph RX ANT1 2402 1Mbps 1000 12500MHz LV



Test_Graph_RX_ANT1_2402_1Mbps_1000_12500MHz_NV

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5.7 Interference Prevention Function Measurement

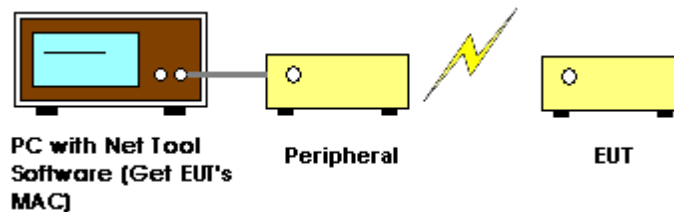
Test Limit

Test Item	Limits
Identification Code	≥ 48 bits
MAC IP List	MAC Scan

Test Procedure

- In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. B. Check the transmitted identification codes with the demodulator.
- In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. B. Check if communication is normal. C. Transmit the signals other than predetermined ID codes from the counterpart. D. check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

Test Setup



Test Result

Test Temperature	22.5°C	Relative Humidity	54.0%
Test Pressure	101kPa	Test Engineer	Vicky Huang
Testing Time	2026-06-10		

Test Result of Interference Prevention Function		
Item	MAC address	Test Result
Identification code	F2:80:F1:2A:F8:90	Good

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5.8 Housing Requirements

Test Limit

The high-frequency section and modulation section (except for the antenna system) shall not be capable of being opened easily.

Confirmation Method

The RF and modulation portions are protected against illegal modification as following method:

Protected Method	Description
BT Module Package	BT Module Package of RF (EP2T42F40) and Modulation (TX: 24MHz) portions is QFN type. (Chip pin number:40/Chip pin angle spacing: 0.4mm)
Enclosure	The enclosure is blocked by buckles and it cannot be opened easily. Otherwise, the device will be damaged.
User Manual	We will add some warning statements on the user manual to against illegal modification.

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC00688260509AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC00688260509AP02

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2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

----End of Report----

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