
MIC Radio Test Report

Report No.: AGC03169241103TR01

PRODUCT DESIGNATION : Gaming Mouse

BRAND NAME : DELUX

MODEL NAME : M900 Pro, M900mini, M900Ultra, M900

APPLICANT : Delux Technology Company Limited

DATE OF ISSUE : Nov. 13, 2024

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	/	Nov. 13, 2024	Valid	Initial Release

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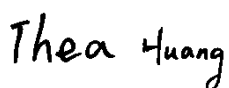
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1. General Information

Applicant	Delux Technology Company Limited
Address	16th Floor, Block A, Delux Sci-Tech Park, No.5 Guanle Street, Longhua District, 518110, Shenzhen, China.
Manufacturer	WUHU DELUX MOBILE INTERNET DEVICE CO., Ltd
Address	Delux Industrial Park, No.3 Xici Road, Xinwu District, Wanzhi Town, Wuhu City, Anhui Province, P.R. China
Factory	WUHU DELUX MOBILE INTERNET DEVICE CO., Ltd
Address	Delux Industrial Park, No.3 Xici Road, Xinwu District, Wanzhi Town, Wuhu City, Anhui Province, P.R. China
Product Designation	Gaming Mouse
Brand Name	DELUX
Test Model	M900 Pro
Series Model(s)	M900mini, M900Ultra, M900
Difference Description	All the series models are the same as the test model except for the model names.
Date of receipt of test item	Nov. 06, 2024
Date of Test	Nov. 06, 2024 to Nov. 13, 2024
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-MIC-2.4G-V1

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

Prepared By		
	Thea Huang	
	(Project Engineer)	Nov. 13, 2024
Reviewed By		
	Calvin Liu	
	(Reviewer)	Nov. 13, 2024
Approved By		
	Angela Li	
	(Authorized Officer)	Nov. 13, 2024

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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	2405MHz-2475MHz
Hardware Version	V1.1
Software Version	V1.1
Modulation Type	GFSK
Number of channels	16
Rated Antenna Power	0.8mW
Antenna Designation	PCB Antenna
Antenna Gain	2.28dBi
Test Channel	2.405GHz (CH00) 2.445GHz (CH09) 2.475GHz (CH15)
Test Voltage	HV: (4.07V) High Voltage + 10% of Normal Voltage
	LV: (3.33V) Low Voltage - 10% of Normal Voltage
	NV: (3.7V) 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	2.405	08	2.441
01	2.408	09	2.445
02	2.414	10	2.453
03	2.419	11	2.459
04	2.422	12	2.463
05	2.426	13	2.466
06	2.436	14	2.471
07	2.439	15	2.475

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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_2405	Transmitting mode without modulation (Channel: 00)
Unmod_2445	Transmitting mode without modulation (Channel: 09)
Unmod_2475	Transmitting mode without modulation (Channel: 15)
2.4G_2405	2.4G Transmitting mode (Channel: 00)
2.4G_2445	2.4G Transmitting mode (Channel: 09)
2.4G_2475	2.4G Transmitting mode (Channel: 15)
Receiver Test	
2.4G_2405	2.4G Receiving mode (Channel: 00)
2.4G_2445	2.4G Receiving mode (Channel: 09)
2.4G_2475	2.4G Receiving mode (Channel: 15)

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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?				
No				
Item	Equipment	Trade Name	Model No.	Specification
1	--	--	--	--

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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	2024-05-24	2025-05-23
☒	AGC-ER-E041	Spectrum Analyzer	Agilent	N9020A	W1312-60196	2024-05-24	2025-05-23
☒	AGC-BQ-E102	Power Meter	R&S	NRP-Z21	104604	2024-05-24	2025-05-23
☒	AGC-EM-A152	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08
☐	AGC-ER-E079	Wireless Connectivity Tester	R&S	CMW270	101933	2024-05-24	2025-05-23
☐	AGC-ER-E075	Small Environmental Tester	SH-242	ESPEC	93008290	2024-07-24	2026-07-23
☐	AGC-ER-E059	Signal Generator	Agilent	N5182B	MY53050647	2024-02-01	2025-01-31
☒	--	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	2024-05-29	2026-05-28
☒	AGC-ER-E091	DC Power Supply	AID EKESI	IT6720	800103030787810080	2024-03-28	2026-03-27

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5. Measurement Results of Article 2 Paragraph 1 Item 19

5.1 Frequency Tolerance Measurement

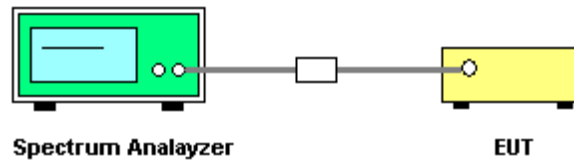
Test Limit

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: 30kHz / 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, fc is declaring of channel frequency.
8. Then the frequency tolerance formula is $(f_c - f) / f_c \times 10^6 \text{ppm}$ and the limit is less than $\pm 50\text{ppm}$

Test Setup



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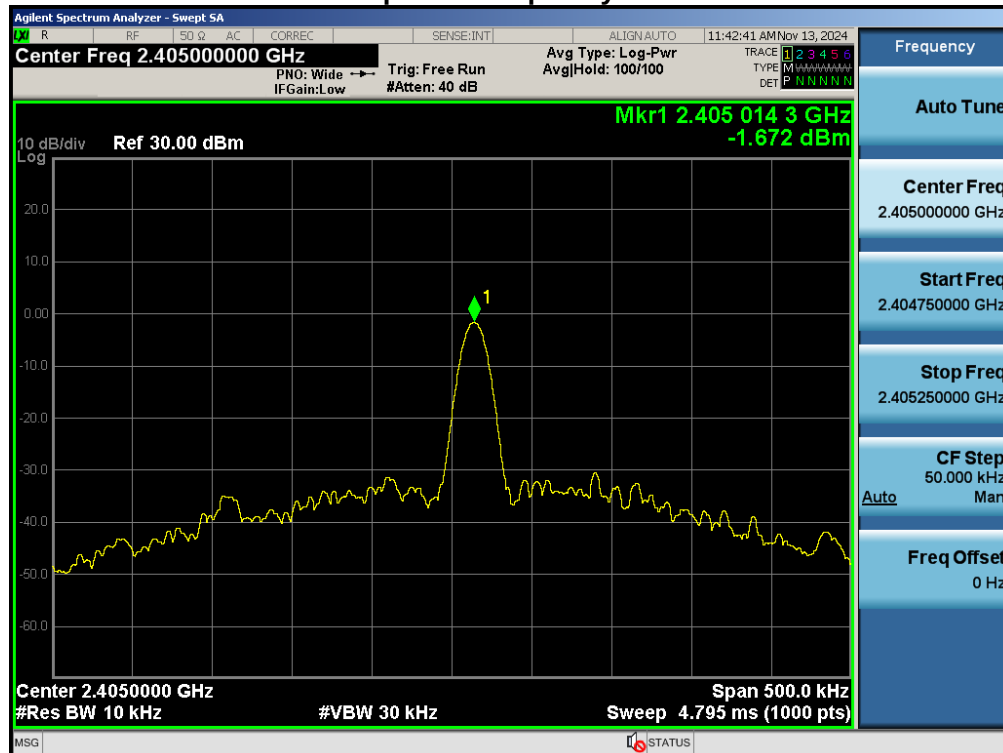
Test Result

Test Temperature	26℃	Relative Humidity	59%
Test Pressure	101kPa	Test Engineer	Vicky Huang
Testing Time	2024-11-13		

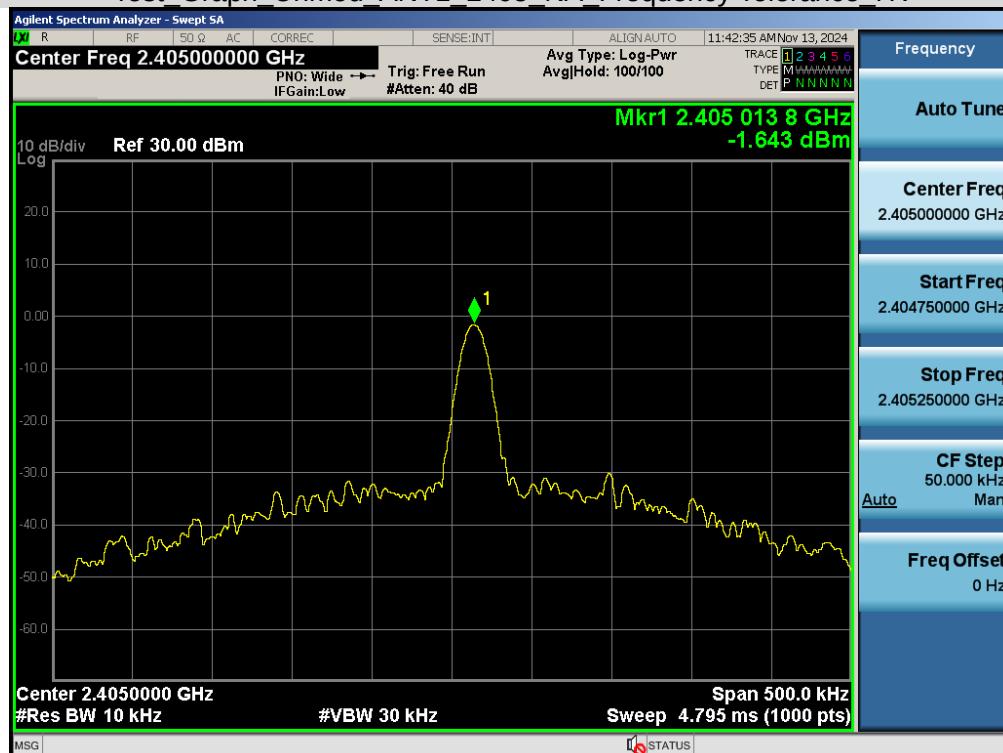
Test Data of Frequency Tolerance								
Test Mode	Measure Frequency (MHz)			Frequency Error (ppm)			Limit (ppm)	P/F
	NV	LV	HV	NV	LV	HV		
Unmod_2405	2405.0143	2405.0138	2405.0143	5.93	5.72	5.93	±50	Pass
Unmod_2445	2445.0143	2445.0143	2445.0143	5.83	5.83	5.83	±50	Pass
Unmod_2475	2475.0143	2475.0143	2475.0143	5.76	5.76	5.76	±50	Pass

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Test Graphs of Frequency Tolerance

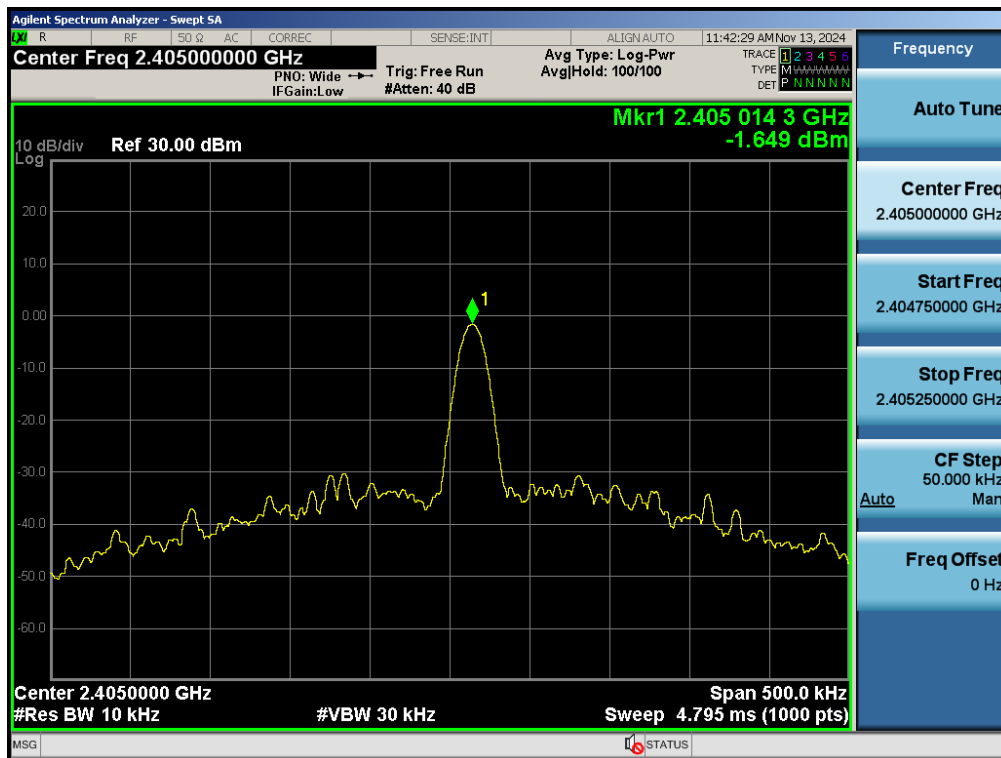
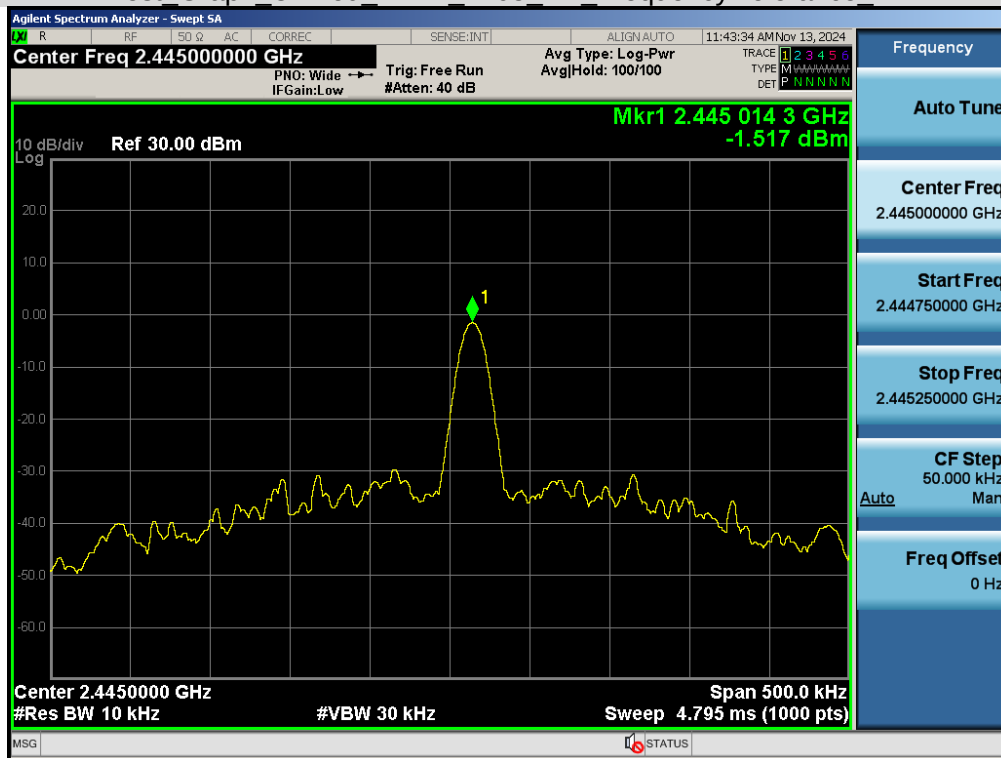


Test	Graph	Unmod	ANT1	2405	NA	Frequency	Tolerance	HV
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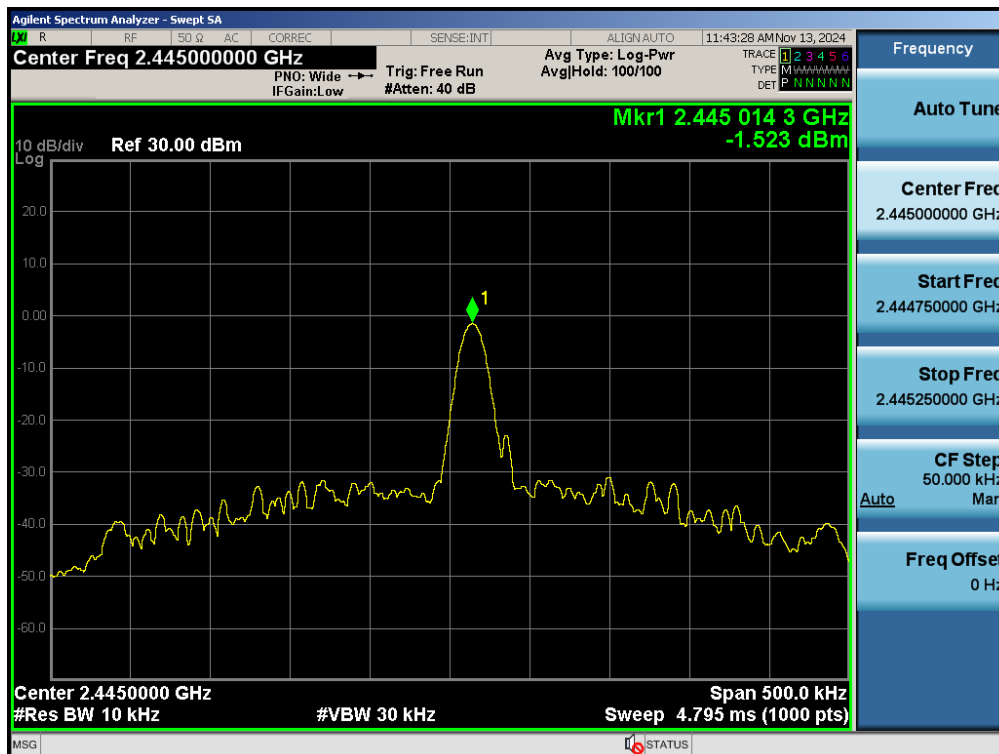
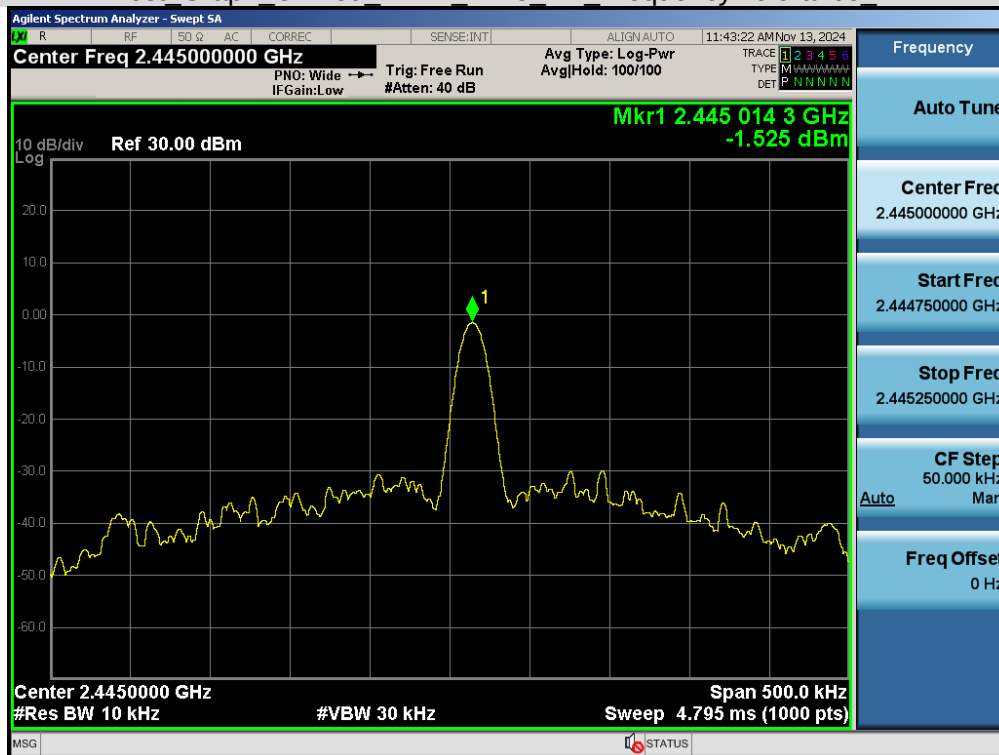
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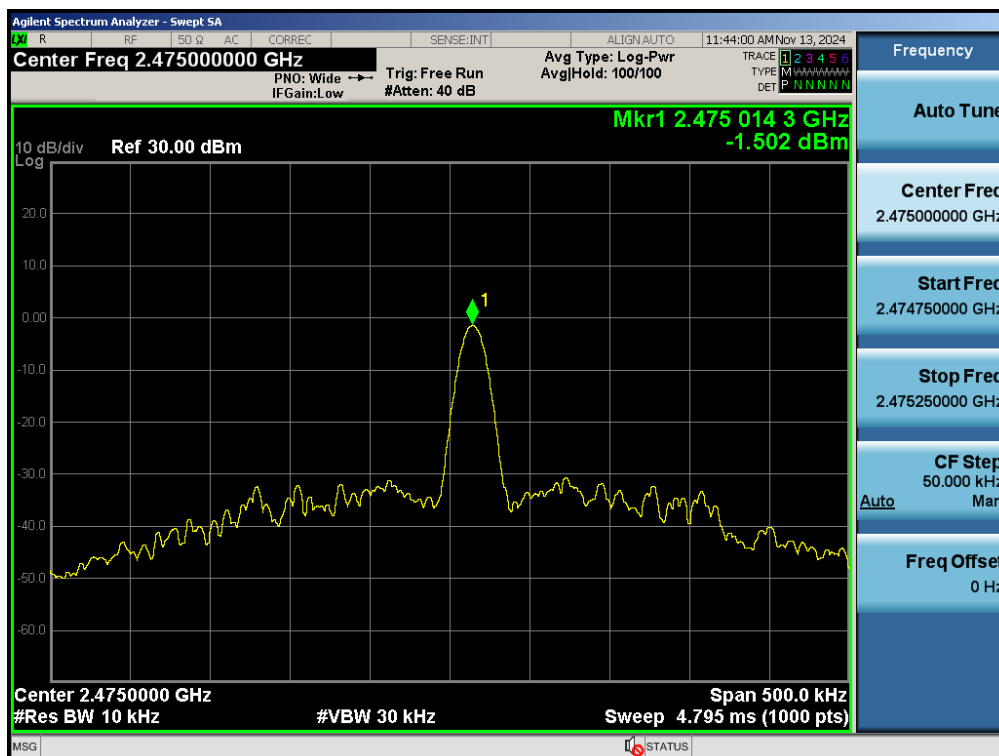
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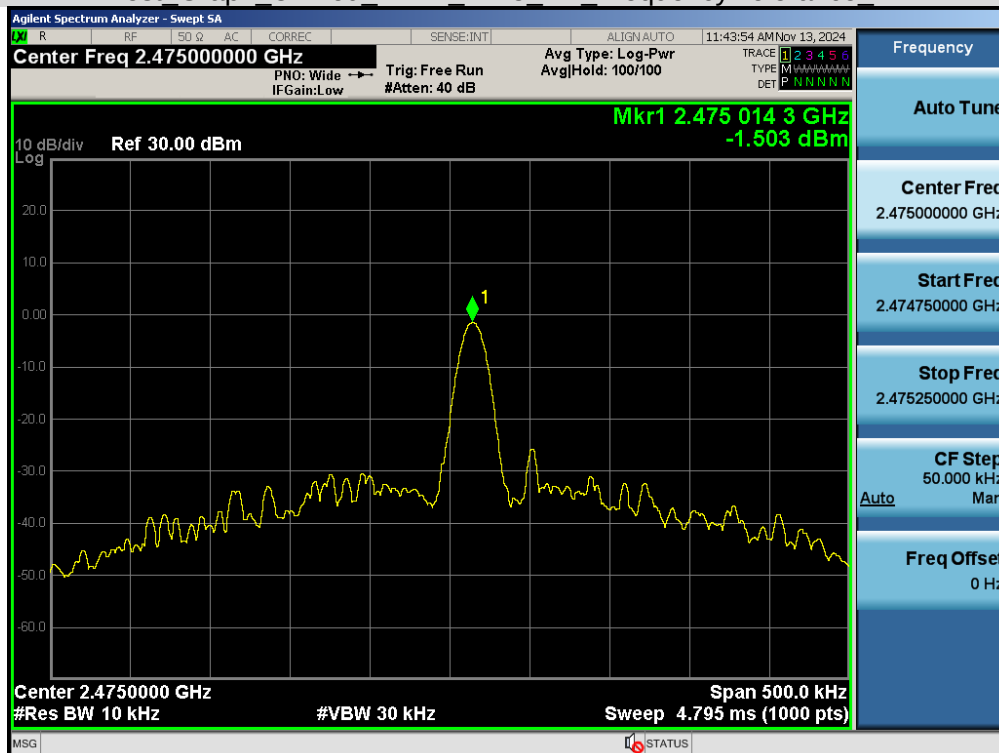


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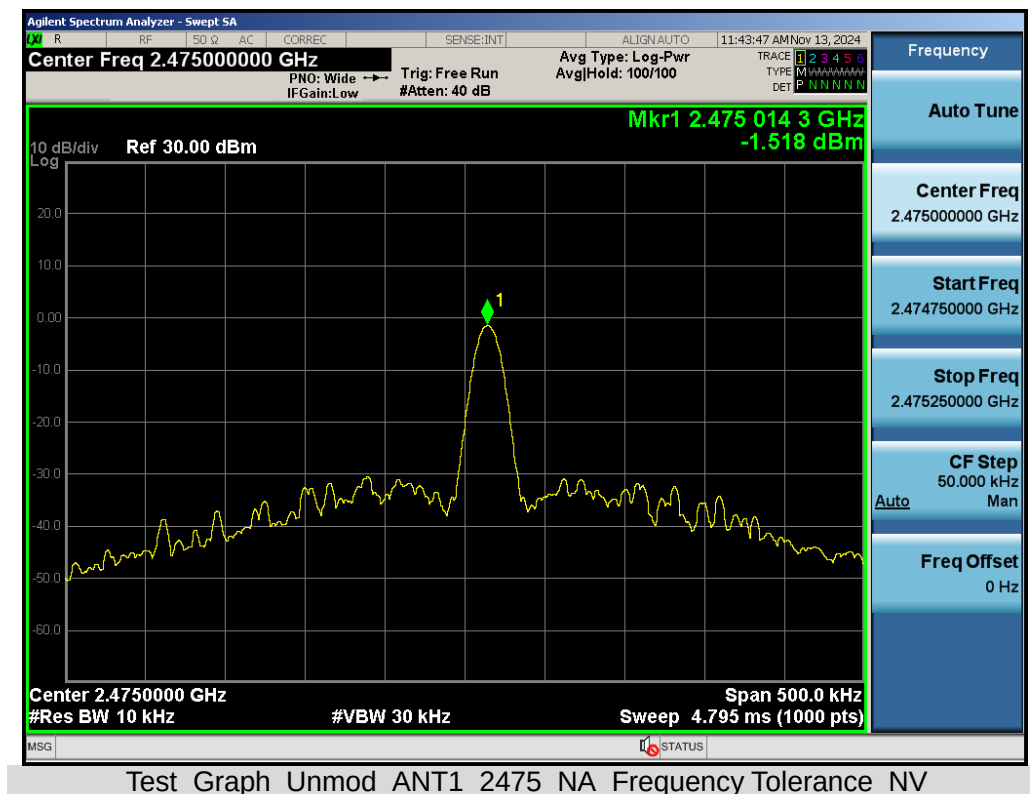
Test Graph Unmod ANT1 2475 NA Frequency Tolerance HV



Test_Graph_Unmod_ANT1_2475_NA_Frequency Tolerance_LV

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5.2 Occupied Bandwidth Measurement

Test Limit

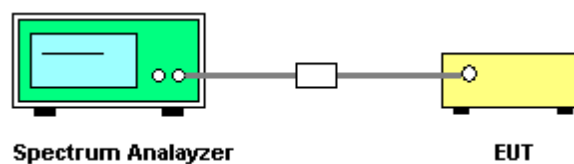
Test Item	Limits
Occupied Bandwidth	FH < 83.5MHz;
	26MHz $\leq$ OFDM 40M system $\leq$ 40MHz;
	OFDM 20M system, DS, Others $\leq$ 26MHz

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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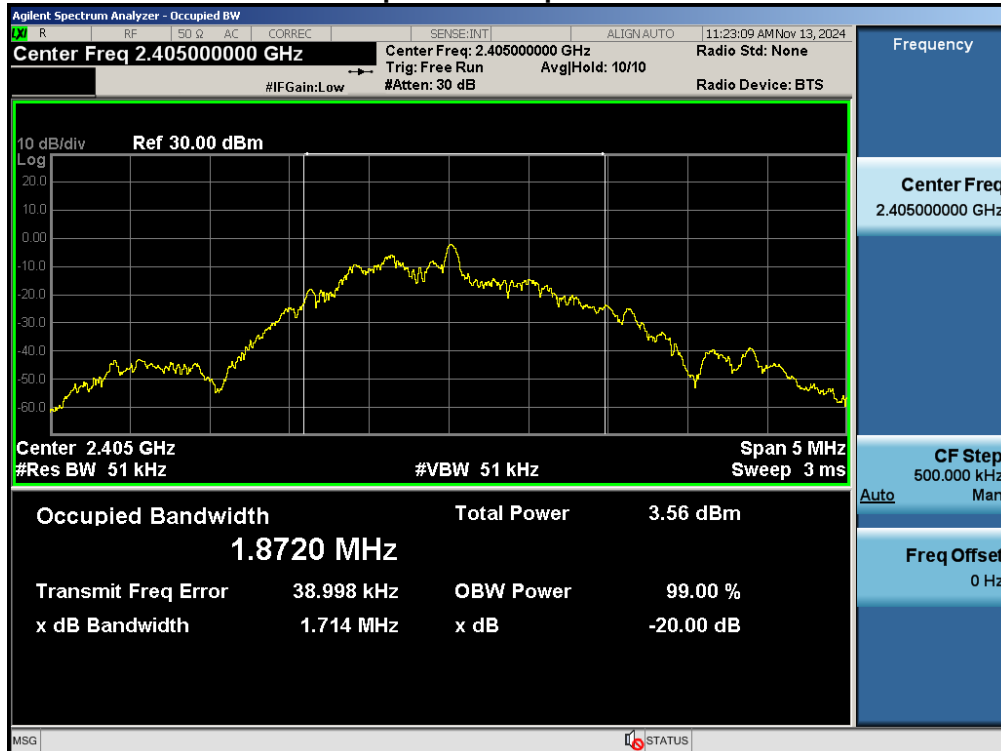
Test Result

Test Temperature	26℃	Relative Humidity	59%
Test Pressure	101kPa	Test Engineer	Vicky Huang
Testing Time	2024-11-13		

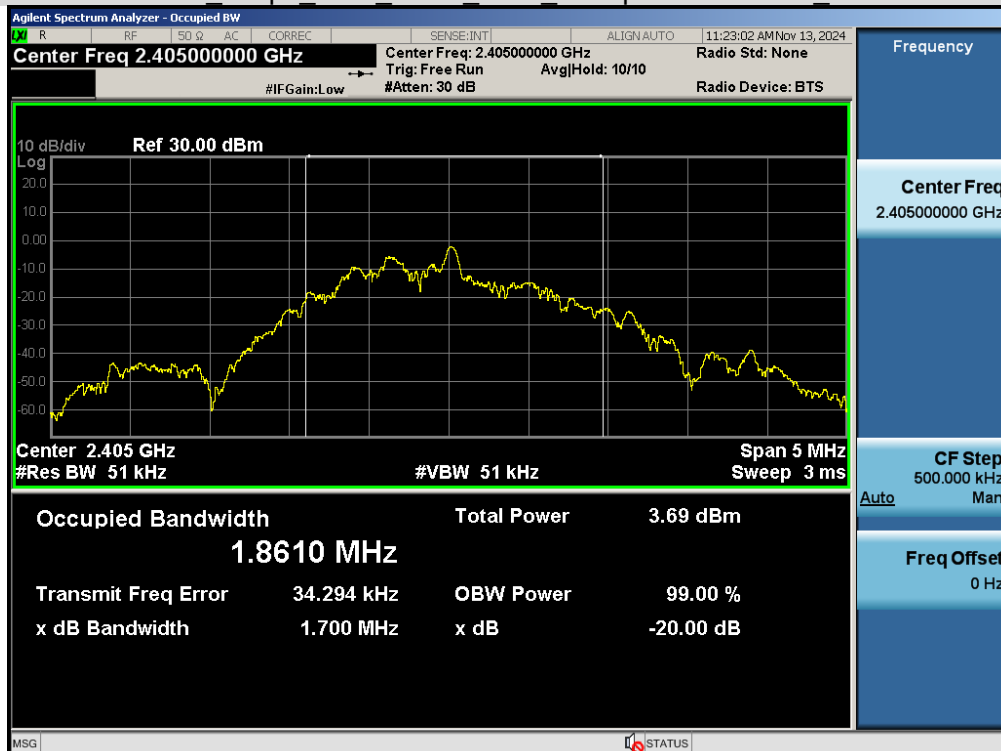
Test Data of Occupied Bandwidth					
Test Mode	Occupied Bandwidth (MHz)			Limit (MHz)	P/F
	NV	LV	HV		
2.4G_2405	1.849	1.861	1.872	<26	Pass
2.4G_2445	1.872	1.849	1.851	<26	Pass
2.4G_2475	1.857	1.857	1.856	<26	Pass

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Test Graphs of Occupied Bandwidth

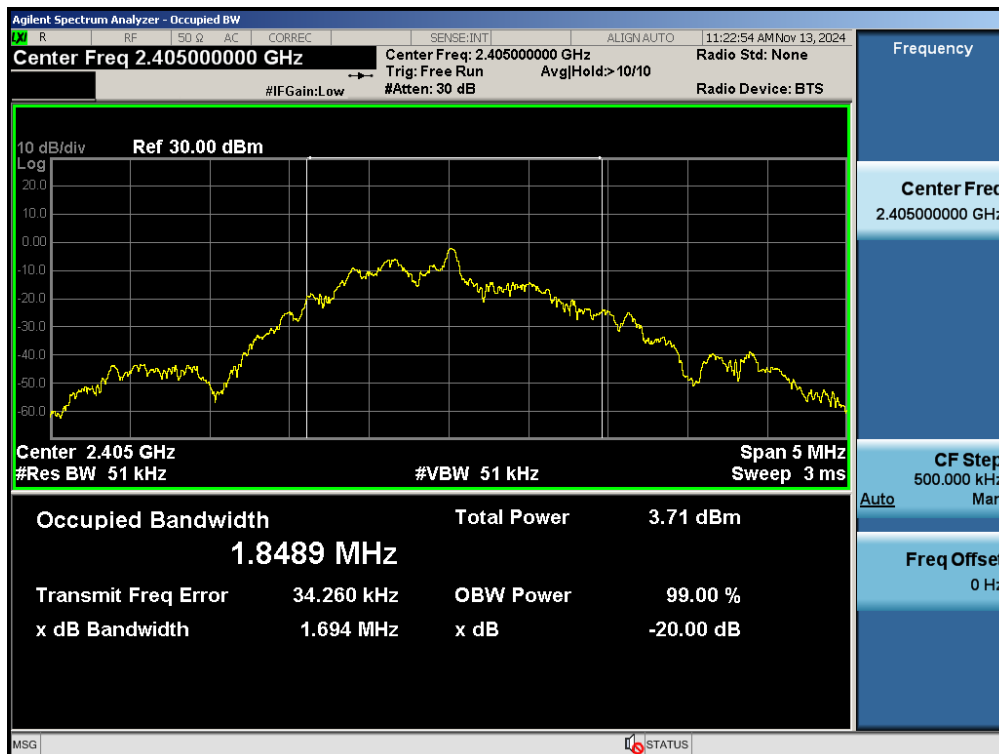


Test Graph 2.4G ANT1 2405 Occupied Bandwidth HV



Test_Graph_2.4G_ANT1_2405_Occupied Bandwidth_LV

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Test Graph 2.4G ANT1 2405 Occupied Bandwidth NV

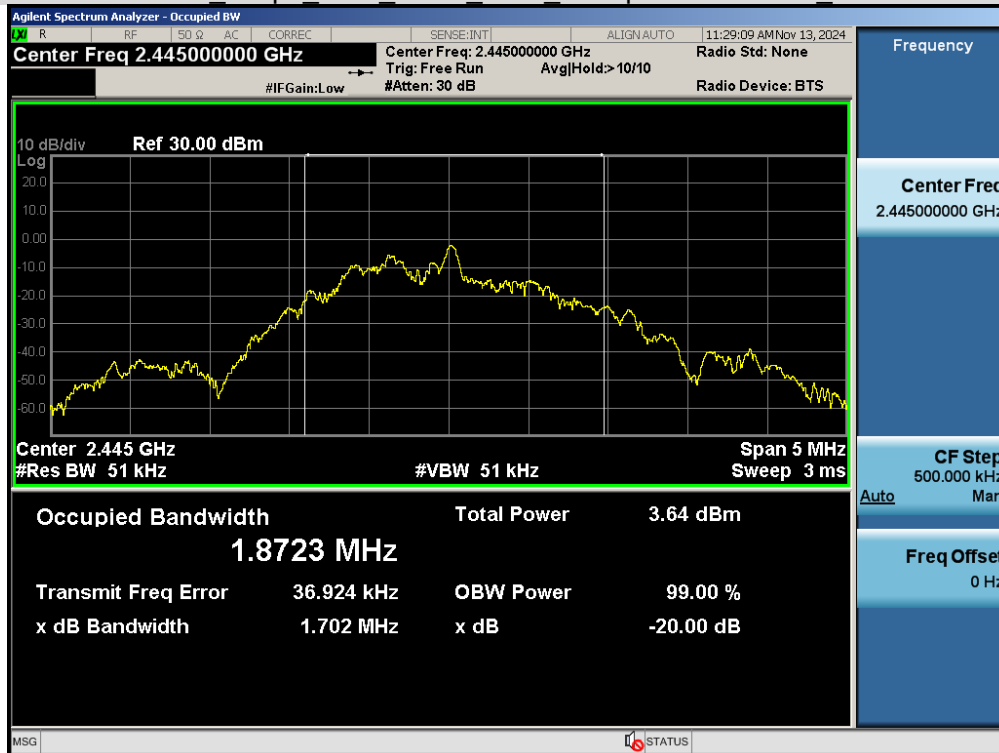


Test Graph 2.4G ANT1 2445 Occupied Bandwidth HV

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Test Graph 2.4G ANT1 2445 Occupied Bandwidth LV



Test Graph 2.4G ANT1 2445 Occupied Bandwidth NV

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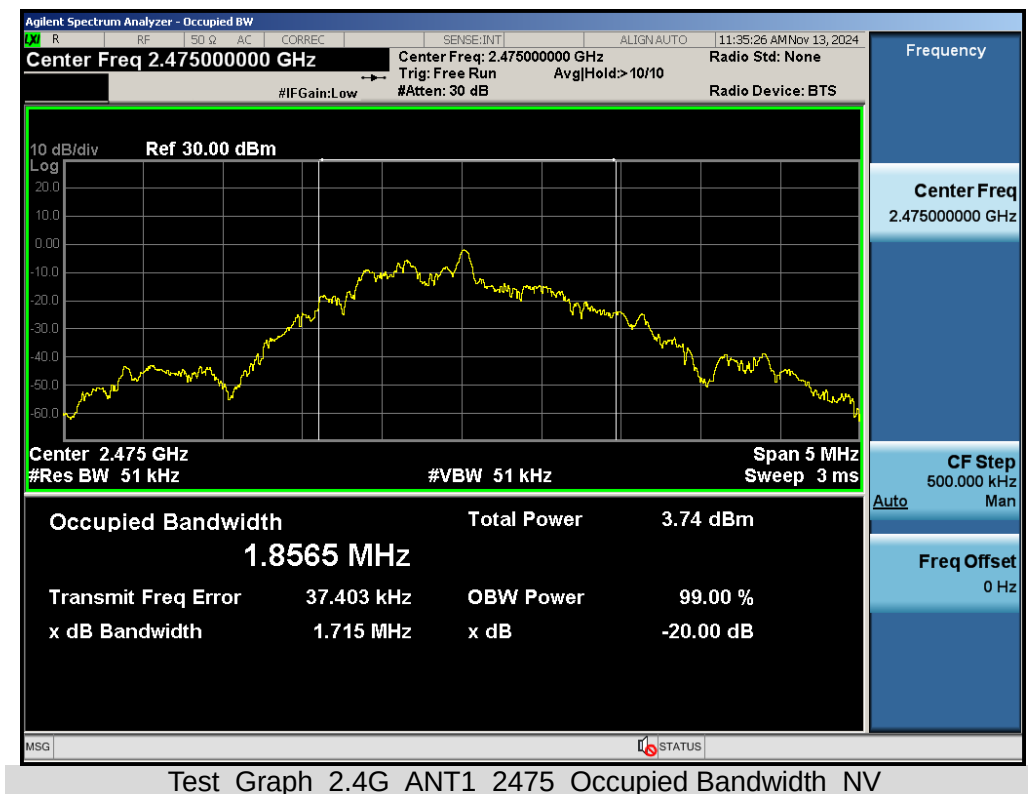
Test Graph 2.4G ANT1 2475 Occupied Bandwidth HV



Test_Graph_2.4G_ANT1_2475_Occupied Bandwidth_LV

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5.3 Unwanted Emission Strength Measurement

Test Limit

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

Test Procedure

The following table is the setting of spectrum analyzer.

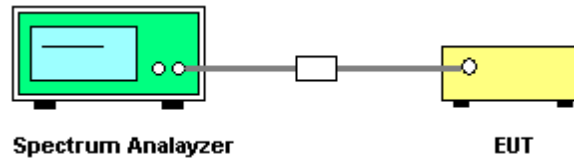
Spectrum Parameter	Setting
RB / VB	Below 1GHz RB:100KHz / VB:100KHz Above 1GHz RB:1MHz / VB:1MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- 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 0.25μW.
- Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5μW.
- SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25μW.
- SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25μW
- SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5μW
- Convert from dBm to μW: $P(\mu\text{W}) = 1000 \cdot 10^{[P(\text{dBm})/10]}$
- 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	26℃	Relative Humidity	59%
Test Pressure	101kPa	Test Engineer	Vicky Huang
Testing Time	2024-11-13		

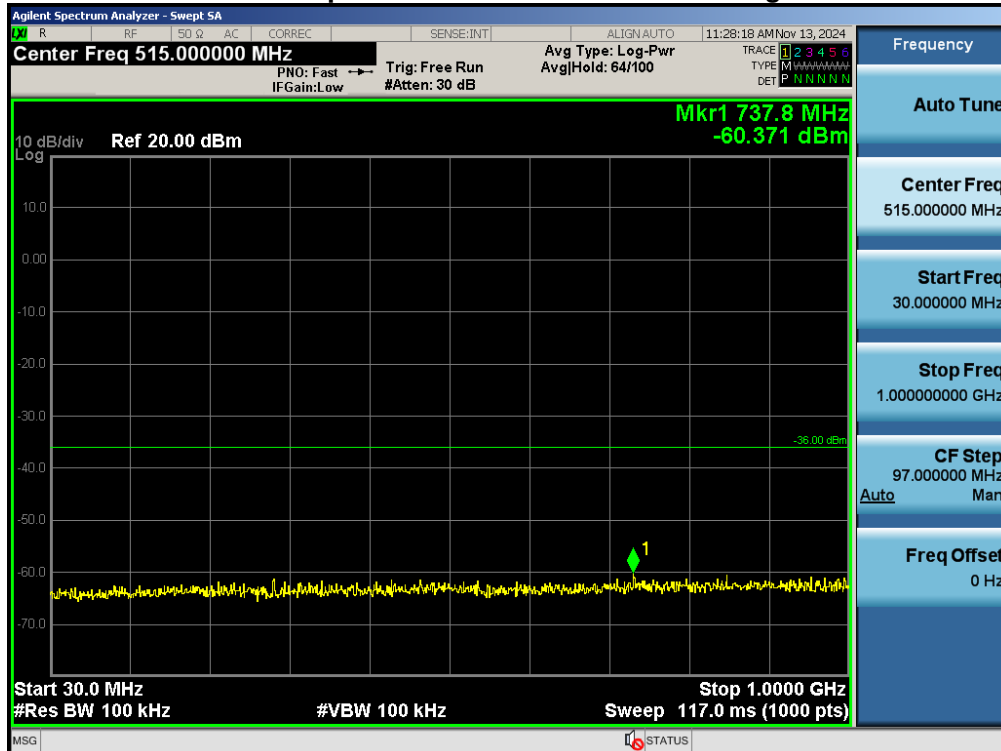
Test Data of Unwanted Emission Strength								
Voltage	Mode	Channel (MHz)	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	2.4G	2405	30~1000	845.6	-50.264	0.009	2.5	Pass
NV	2.4G	2405	1000~2387	2370.3	-50.667	0.009	2.5	Pass
NV	2.4G	2405	2387~2400	2399.1	-48.189	0.015	25	Pass
NV	2.4G	2405	2483.5~2496.5	2485.8	-50.111	0.01	25	Pass
NV	2.4G	2405	2496.5~12500	7212.9	-30.125	0.972	2.5	Pass
LV	2.4G	2405	30~1000	909.7	-49.607	0.011	2.5	Pass
LV	2.4G	2405	1000~2387	2037.1	-50.023	0.01	2.5	Pass
LV	2.4G	2405	2387~2400	2397.4	-50.333	0.009	25	Pass
LV	2.4G	2405	2483.5~2496.5	2492.3	-49.716	0.011	25	Pass
LV	2.4G	2405	2496.5~12500	7212.9	-30.159	0.964	2.5	Pass
HV	2.4G	2405	30~1000	737.8	-50.371	0.009	2.5	Pass
HV	2.4G	2405	1000~2387	2153.8	-50.279	0.009	2.5	Pass
HV	2.4G	2405	2387~2400	2400.0	-48.386	0.015	25	Pass
HV	2.4G	2405	2483.5~2496.5	2484.1	-50.624	0.009	25	Pass
HV	2.4G	2405	2496.5~12500	7212.9	-30.464	0.899	2.5	Pass
NV	2.4G	2445	30~1000	672.8	-50.611	0.009	2.5	Pass
NV	2.4G	2445	1000~2387	2270.4	-50.389	0.009	2.5	Pass
NV	2.4G	2445	2387~2400	2389.8	-50.809	0.008	25	Pass
NV	2.4G	2445	2483.5~2496.5	2495.0	-50.315	0.009	25	Pass
NV	2.4G	2445	2496.5~12500	7333.0	-33.279	0.47	2.5	Pass
LV	2.4G	2445	30~1000	818.4	-50.041	0.01	2.5	Pass
LV	2.4G	2445	1000~2387	2012.1	-49.31	0.012	2.5	Pass
LV	2.4G	2445	2387~2400	2390.8	-50.008	0.01	25	Pass
LV	2.4G	2445	2483.5~2496.5	2492.0	-50.321	0.009	25	Pass
LV	2.4G	2445	2496.5~12500	7333.0	-33.424	0.455	2.5	Pass
HV	2.4G	2445	30~1000	719.4	-50.558	0.009	2.5	Pass

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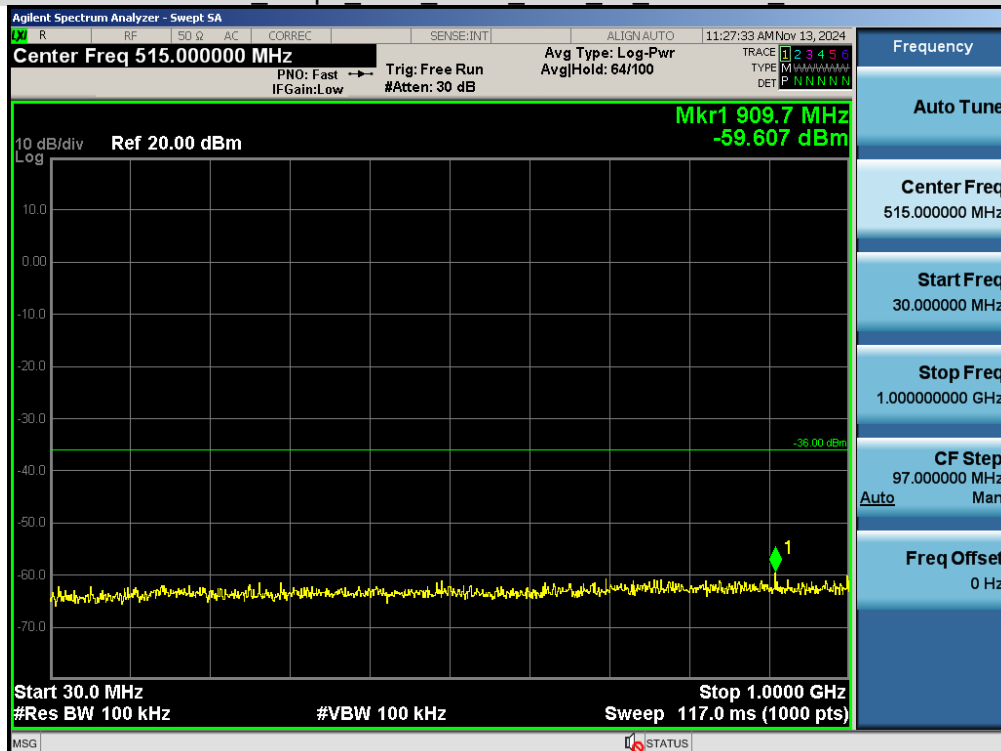
HV	2.4G	2445	1000~2387	2284.3	-48.858	0.013	2.5	Pass
HV	2.4G	2445	2387~2400	2397.2	-50.69	0.009	25	Pass
HV	2.4G	2445	2483.5~2496.5	2484.6	-50.506	0.009	25	Pass
HV	2.4G	2445	2496.5~12500	7333.0	-33.347	0.463	2.5	Pass
NV	2.4G	2475	30~1000	834.0	-50.674	0.009	2.5	Pass
NV	2.4G	2475	1000~2387	2296.8	-50.018	0.01	2.5	Pass
NV	2.4G	2475	2387~2400	2389.2	-50.643	0.009	25	Pass
NV	2.4G	2475	2483.5~2496.5	2495.1	-50.506	0.009	25	Pass
NV	2.4G	2475	2496.5~12500	7423.1	-34.274	0.374	2.5	Pass
LV	2.4G	2475	30~1000	354.3	-50.005	0.01	2.5	Pass
LV	2.4G	2475	1000~2387	2375.9	-50.168	0.01	2.5	Pass
LV	2.4G	2475	2387~2400	2393.5	-50.597	0.009	25	Pass
LV	2.4G	2475	2483.5~2496.5	2493.9	-50.318	0.009	25	Pass
LV	2.4G	2475	2496.5~12500	7423.1	-34.526	0.353	2.5	Pass
HV	2.4G	2475	30~1000	850.5	-49.749	0.011	2.5	Pass
HV	2.4G	2475	1000~2387	2350.9	-50.443	0.009	2.5	Pass
HV	2.4G	2475	2387~2400	2392.6	-50.783	0.008	25	Pass
HV	2.4G	2475	2483.5~2496.5	2493.2	-49.622	0.011	25	Pass
HV	2.4G	2475	2496.5~12500	7423.1	-33.903	0.407	2.5	Pass

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Test Graphs of Unwanted Emission Strength



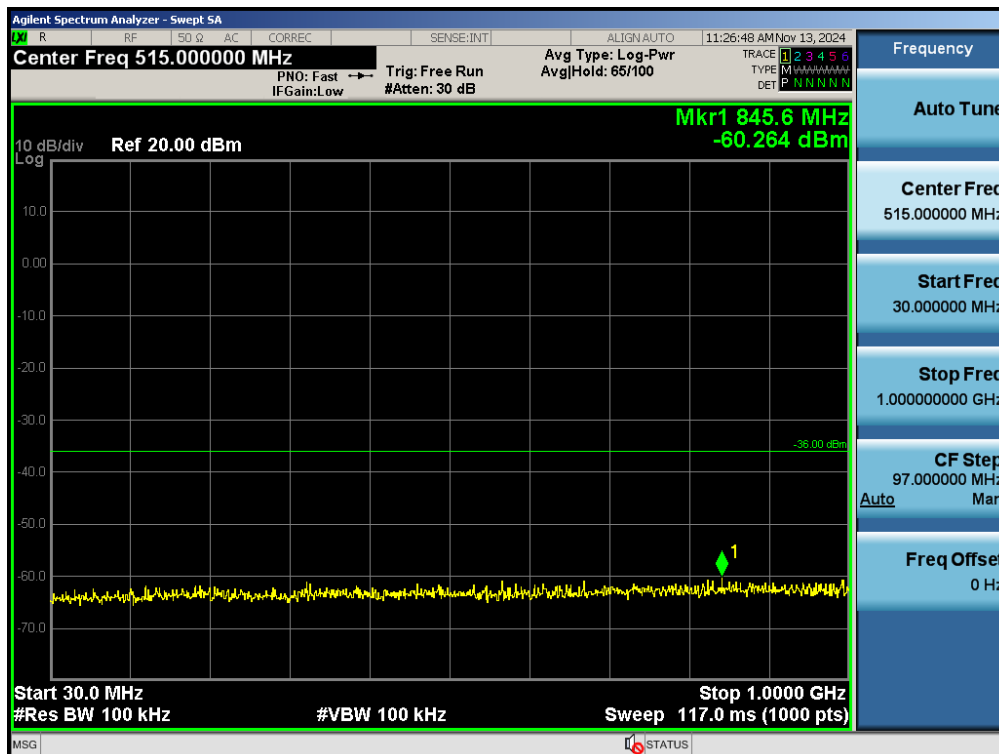
Test Graph 2.4G ANT1 2405 30 1000MHz HV



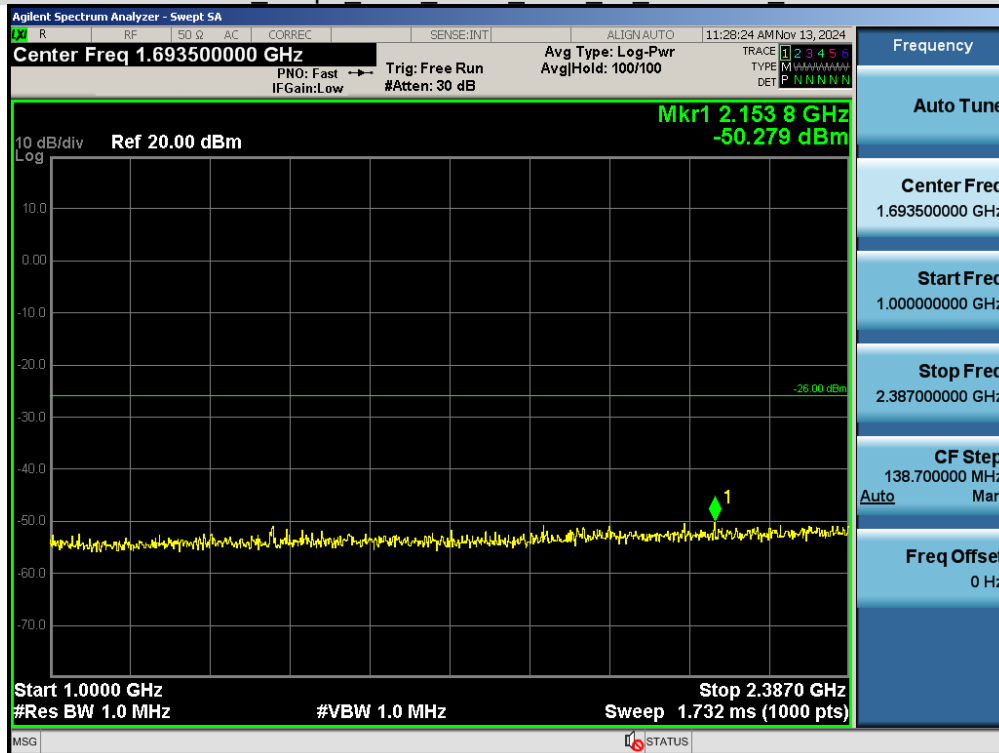
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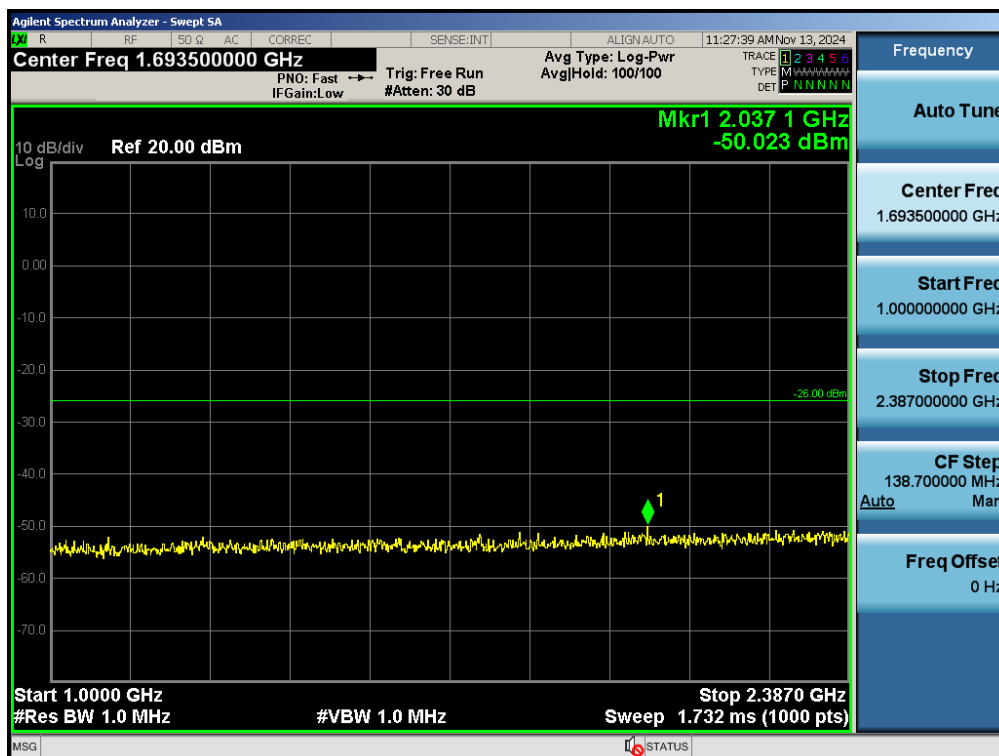
Test Graph 2.4G ANT1 2405 30 1000MHz NV



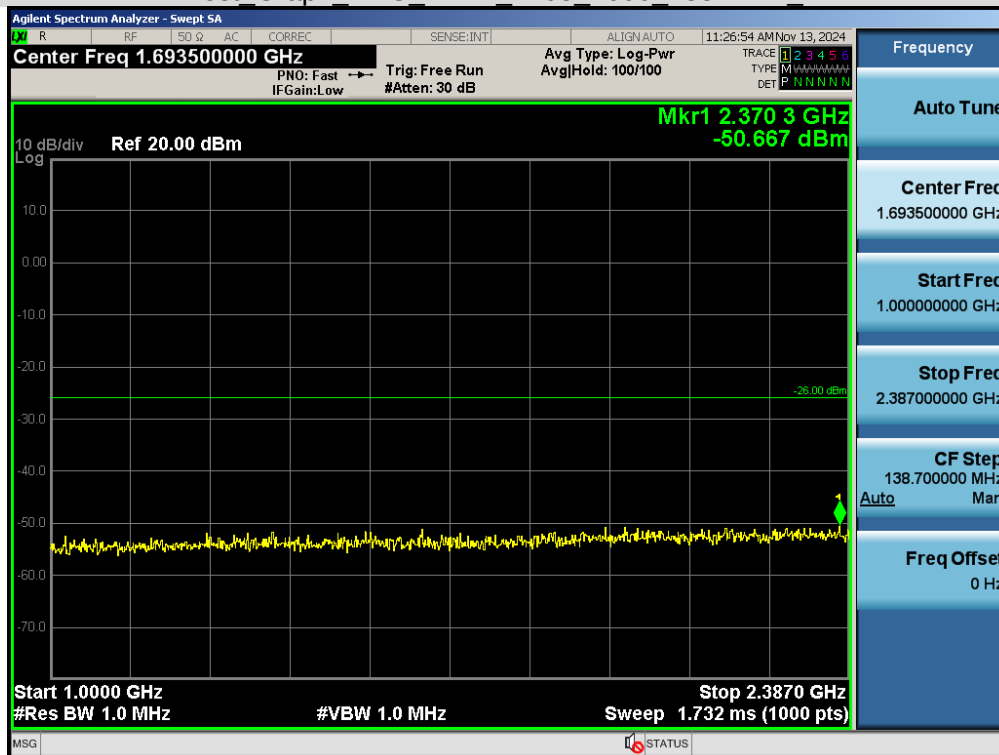
Test_Graph_2.4G_ANT1_2405_1000_2387MHz_HV

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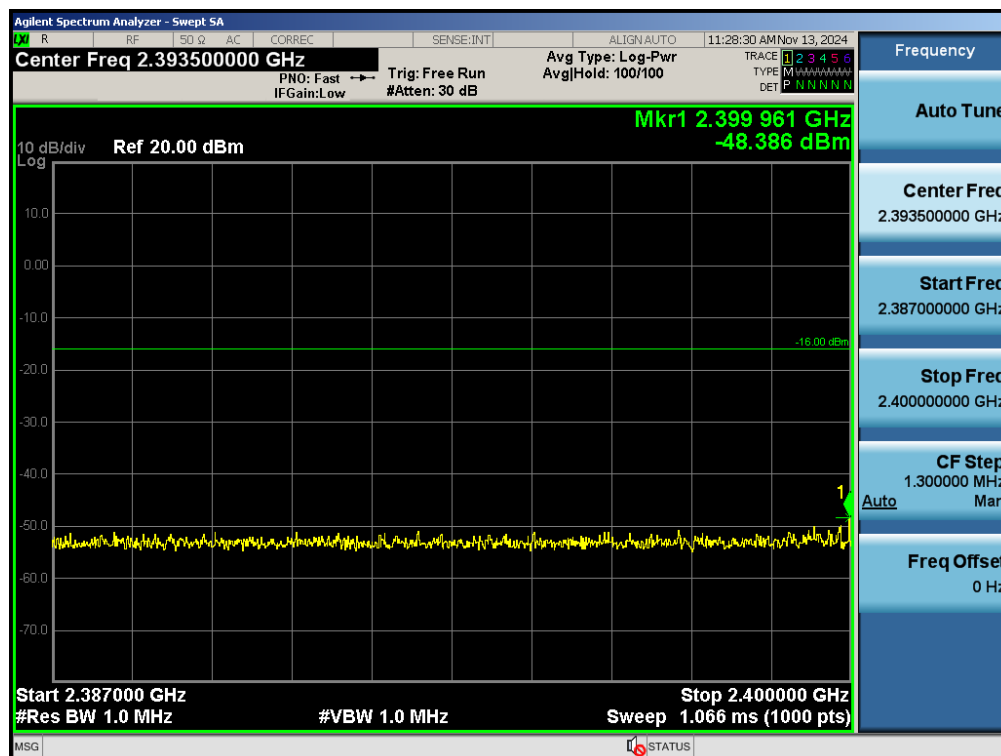
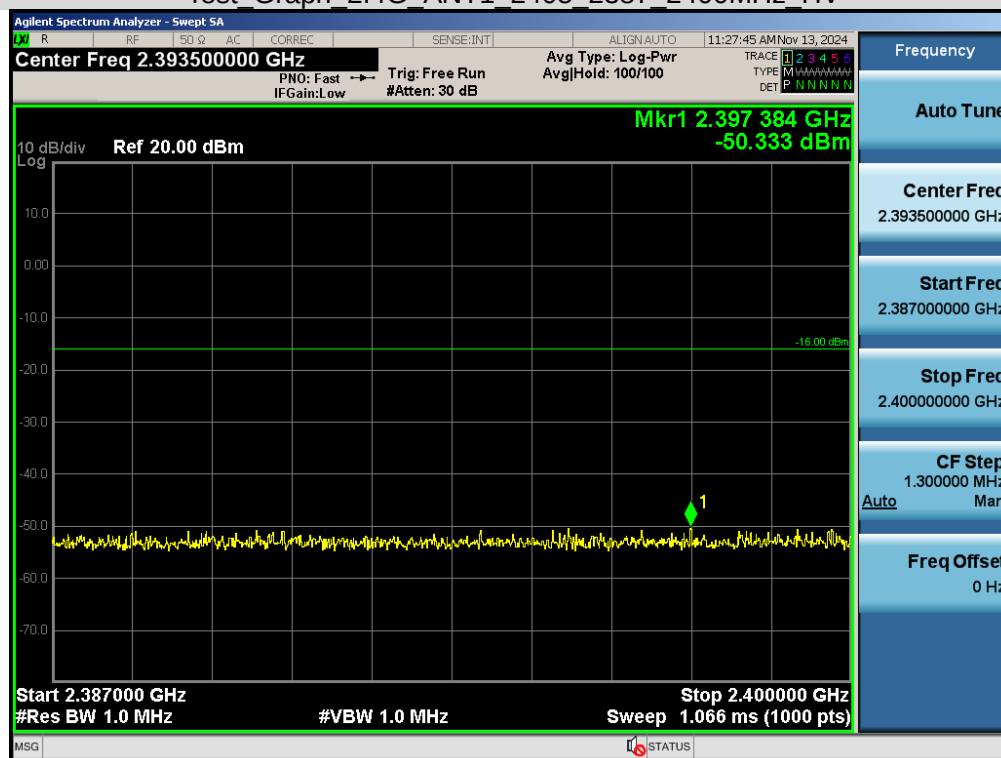
Test Graph 2.4G ANT1 2405 1000 2387MHz LV



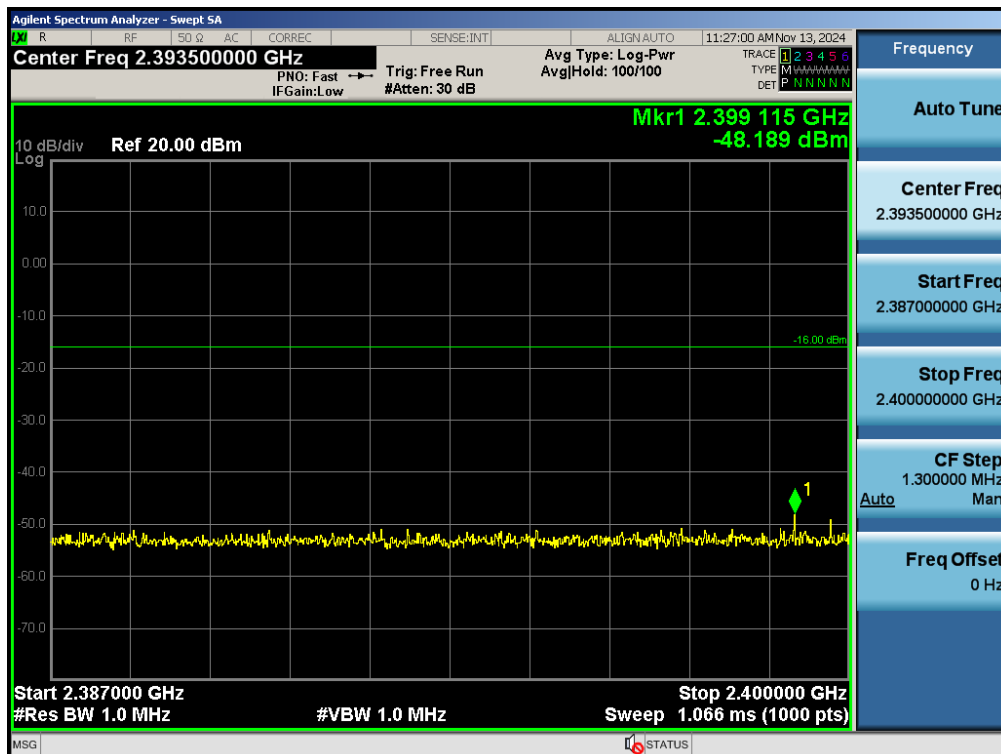
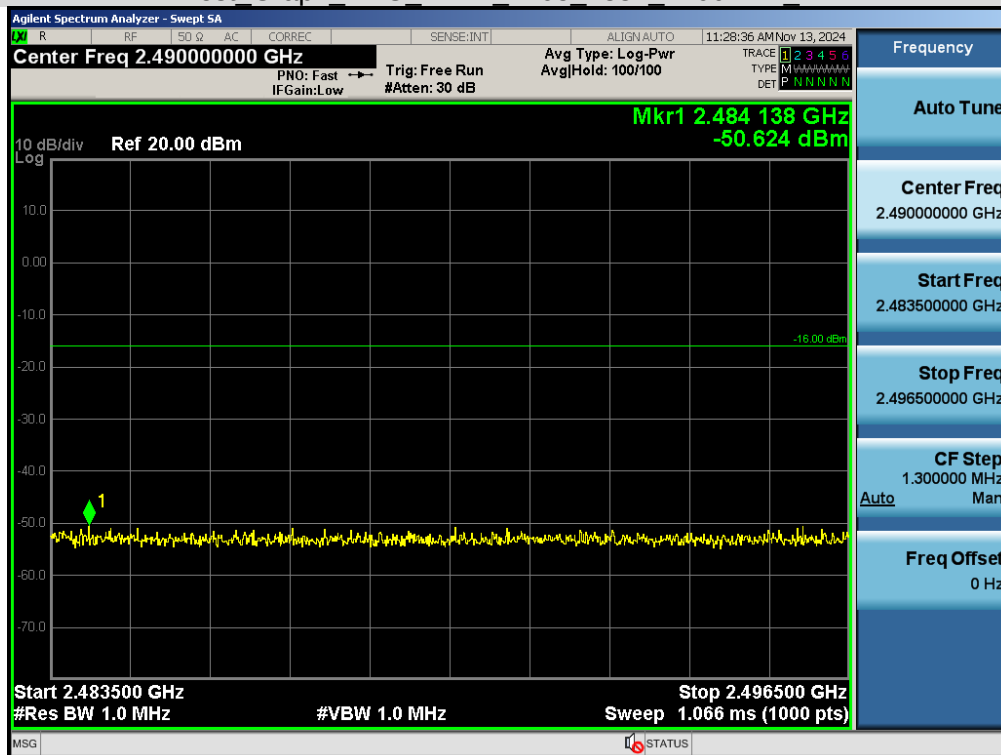
Test_Graph_2.4G_ANT1_2405_1000_2387MHz_NV

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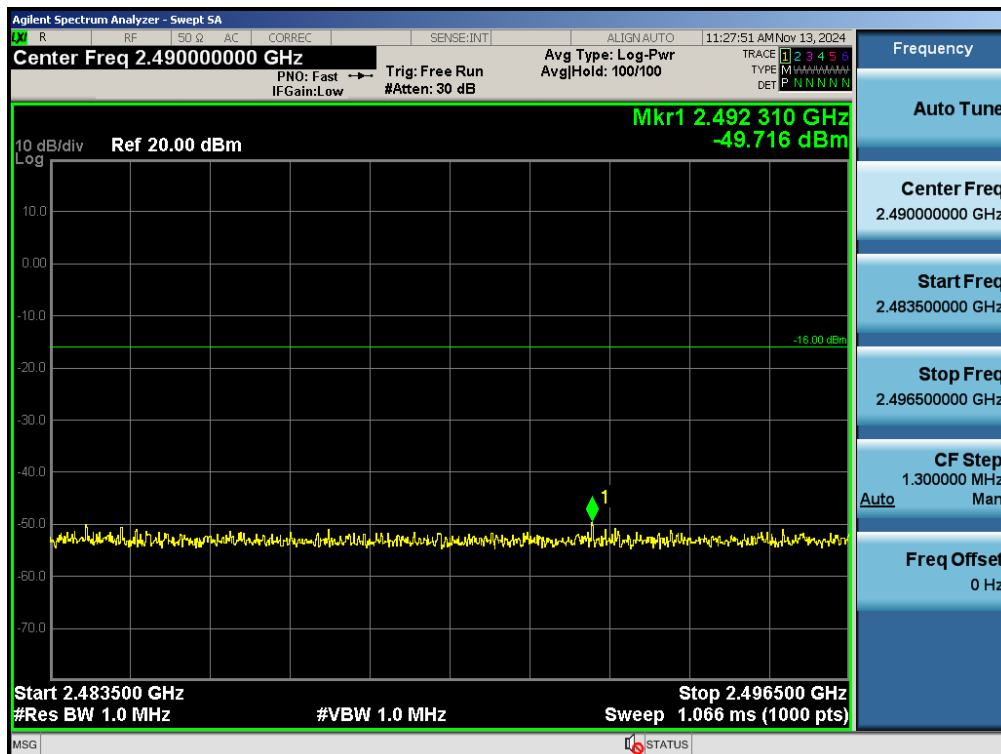


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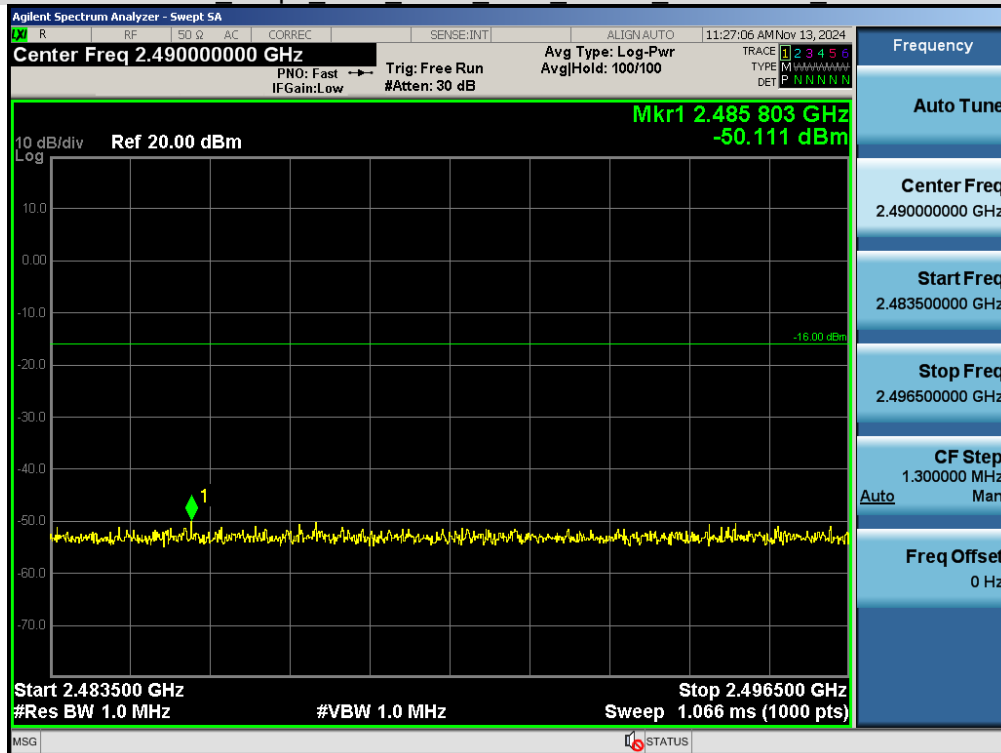


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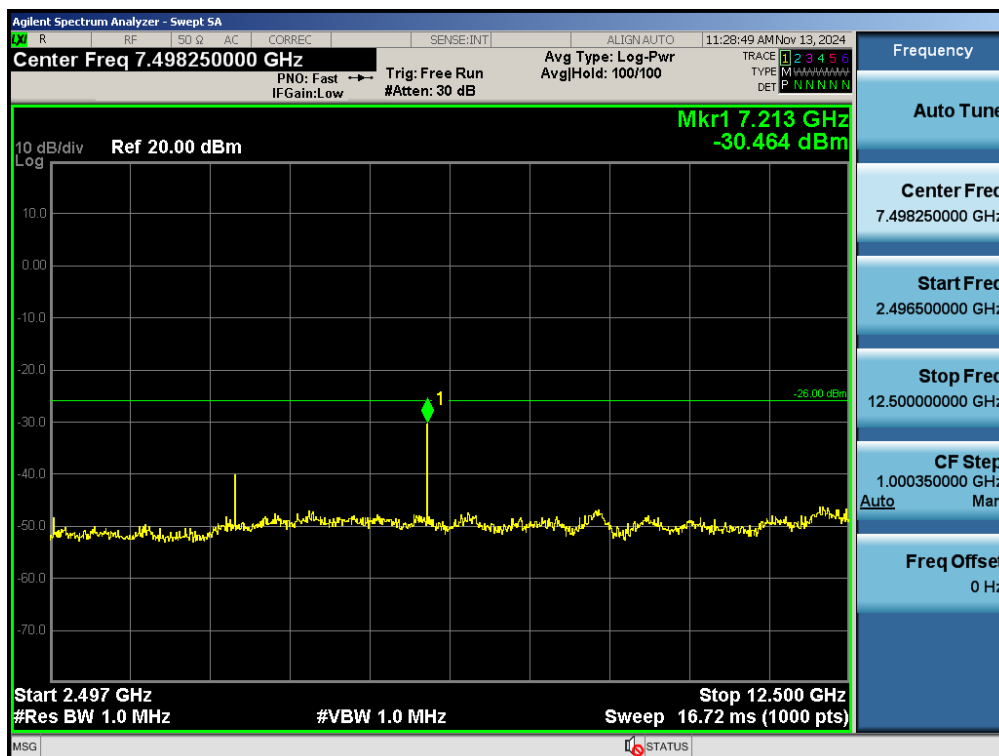
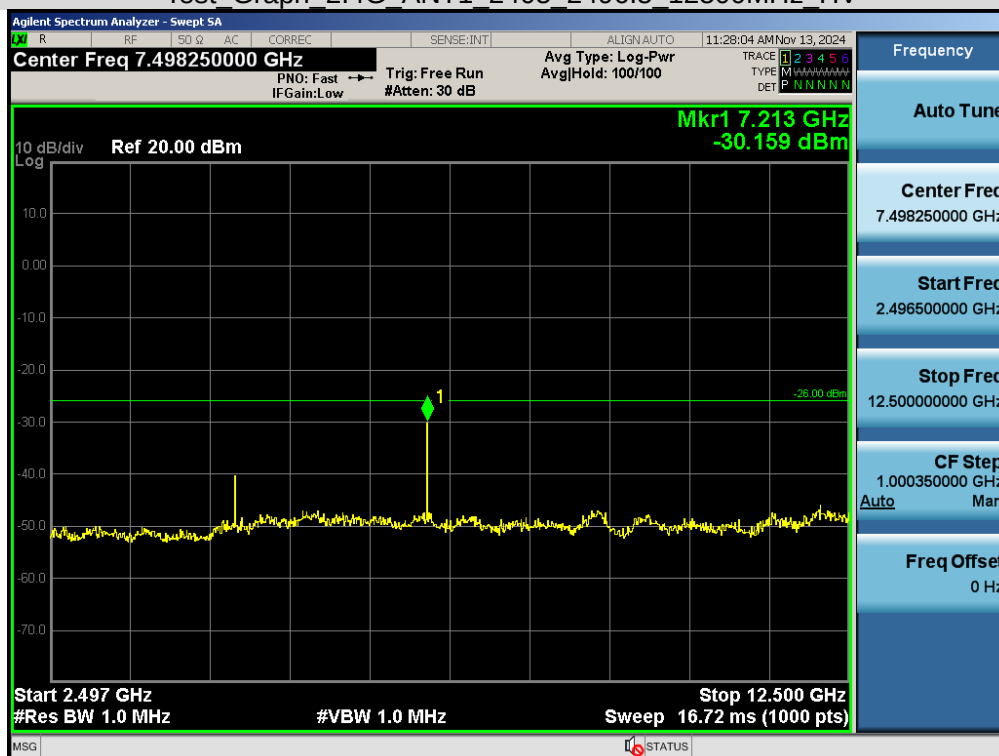
Test Graph 2.4G ANT1 2405 2483.5 2496.5MHz LV



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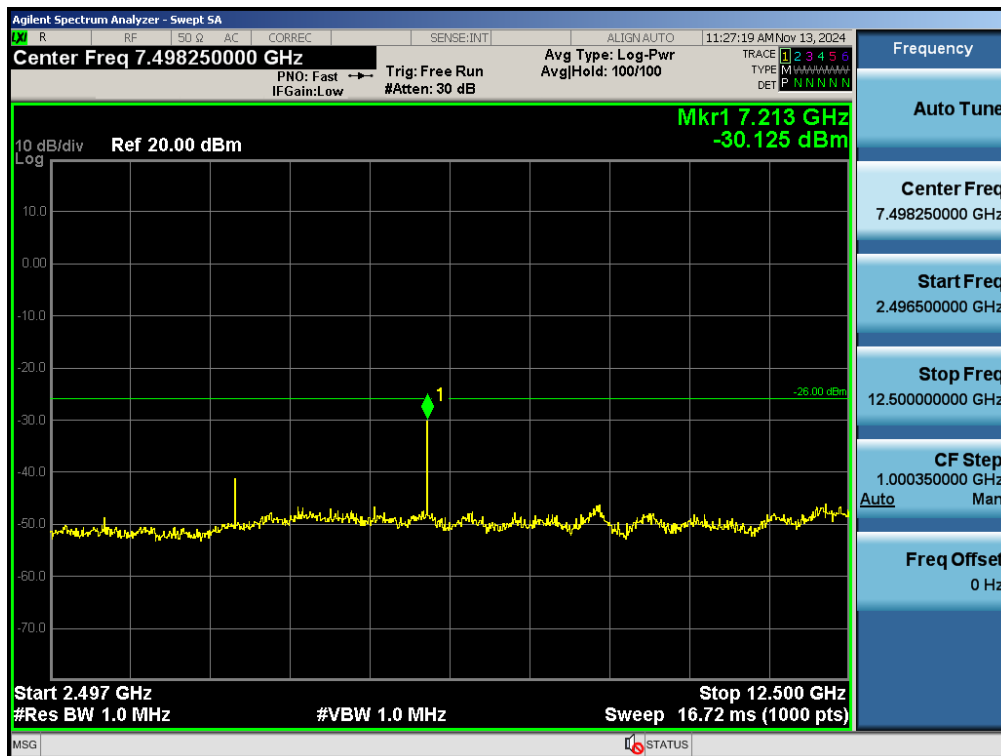
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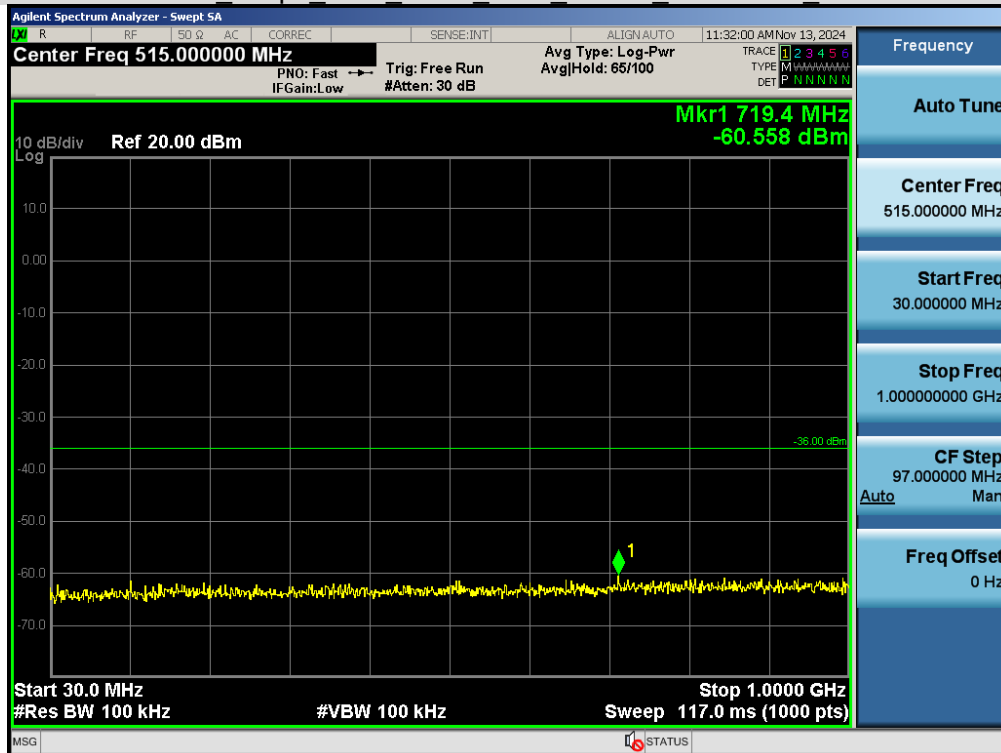


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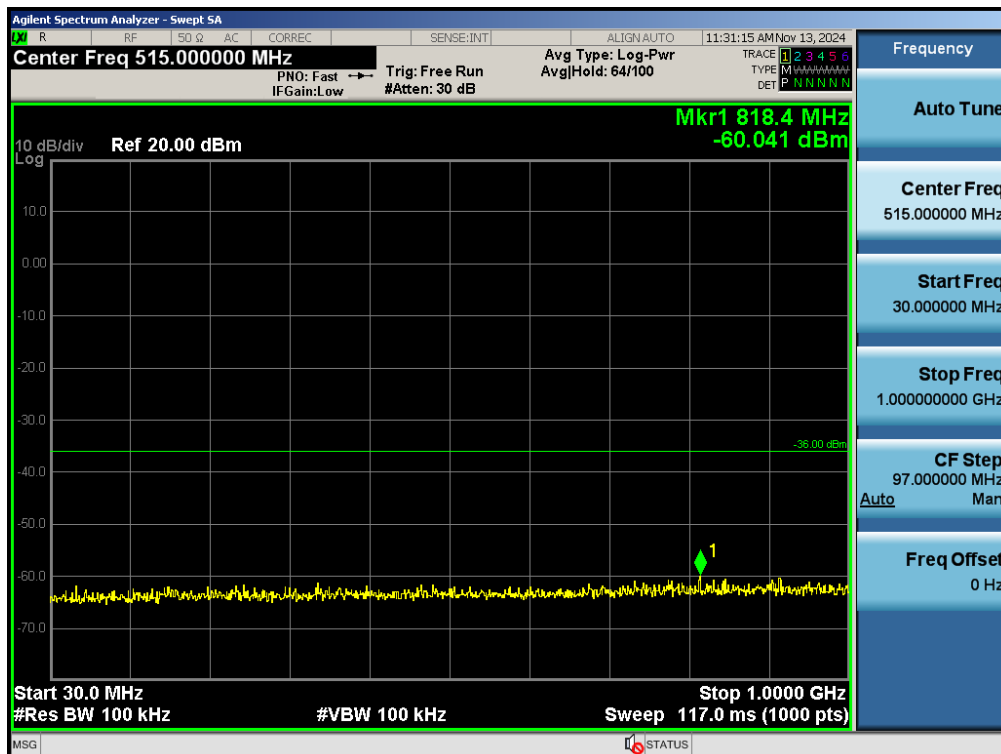
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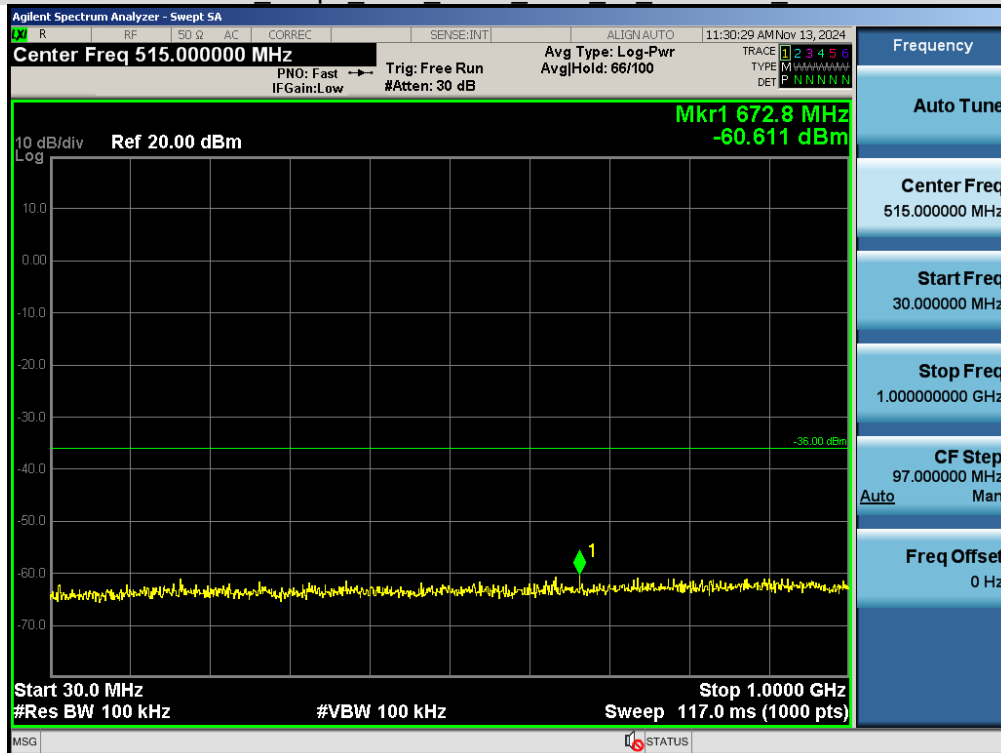
Test Graph 2.4G ANT1 2445 30 1000MHz HV

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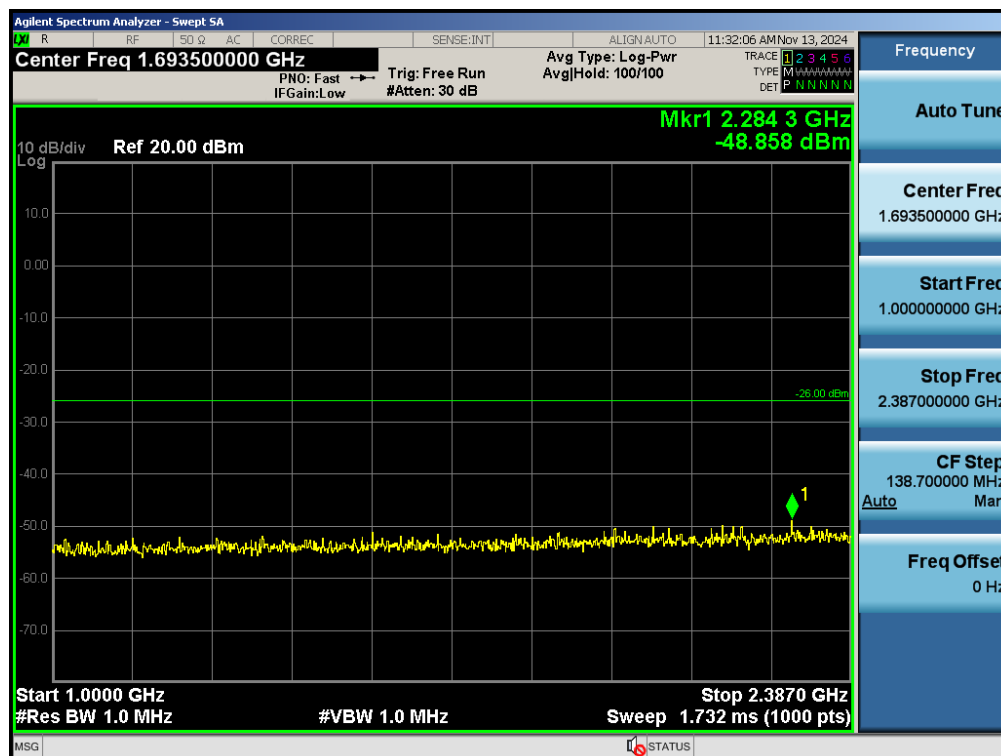
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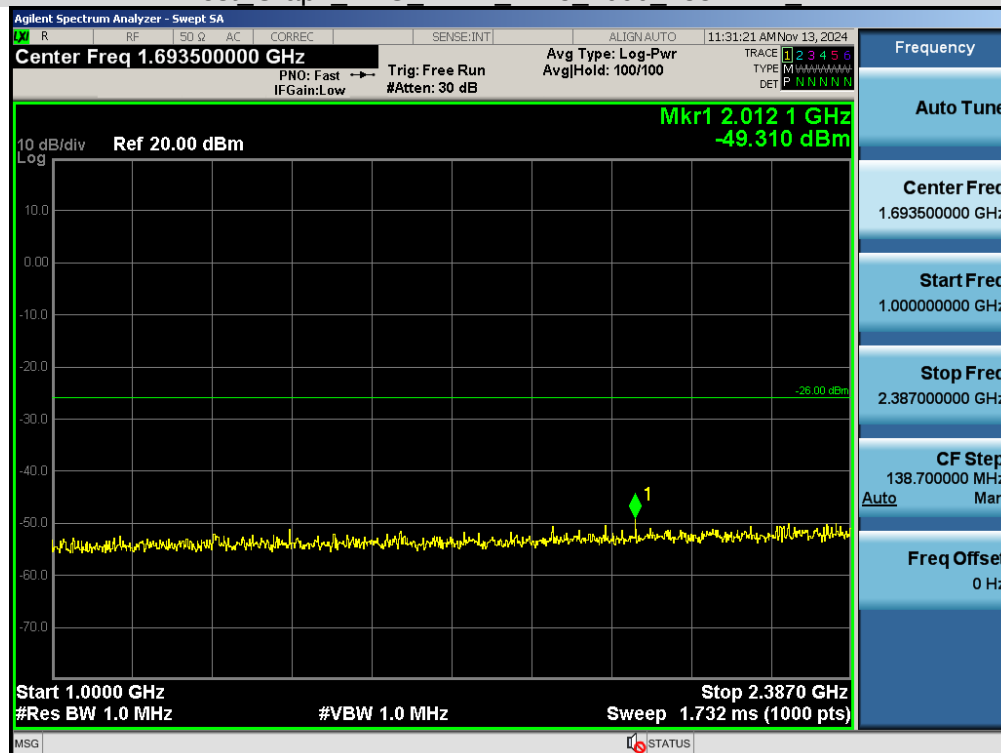
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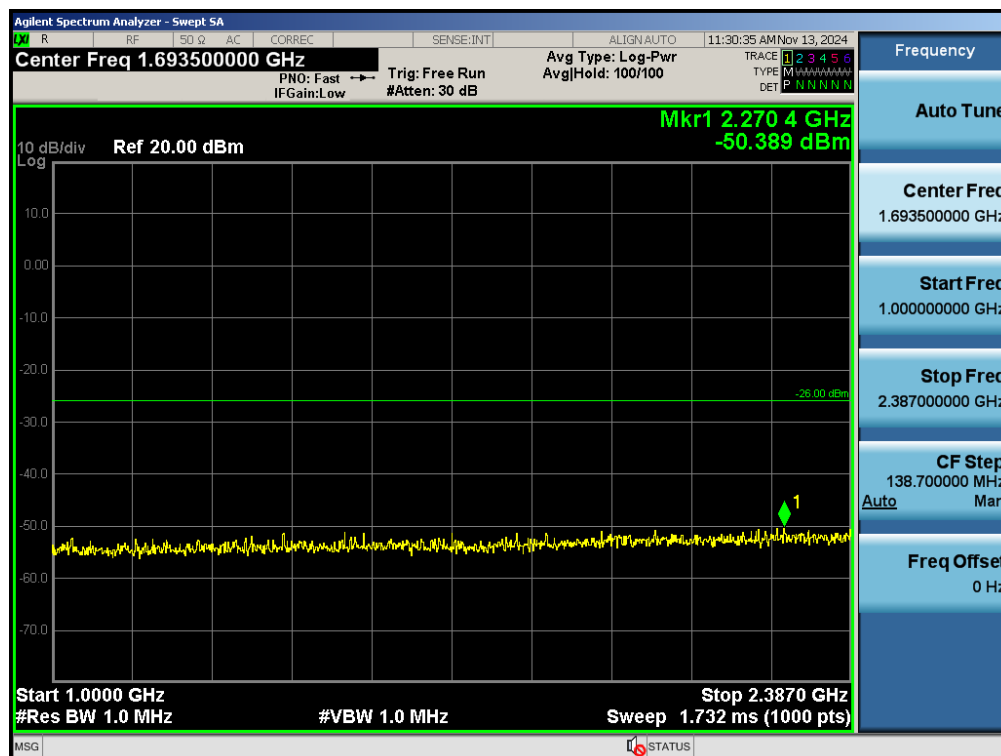
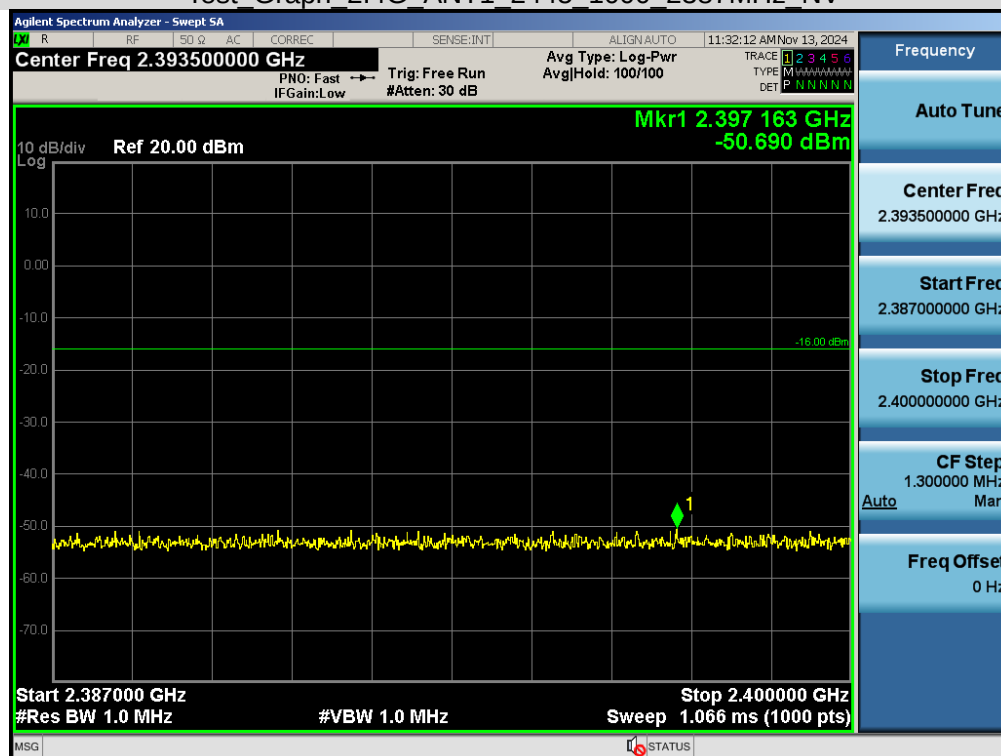
Test Graph 2.4G ANT1 2445 1000 2387MHz HV



Test Graph 2.4G ANT1 2445 1000 2387MHz LV

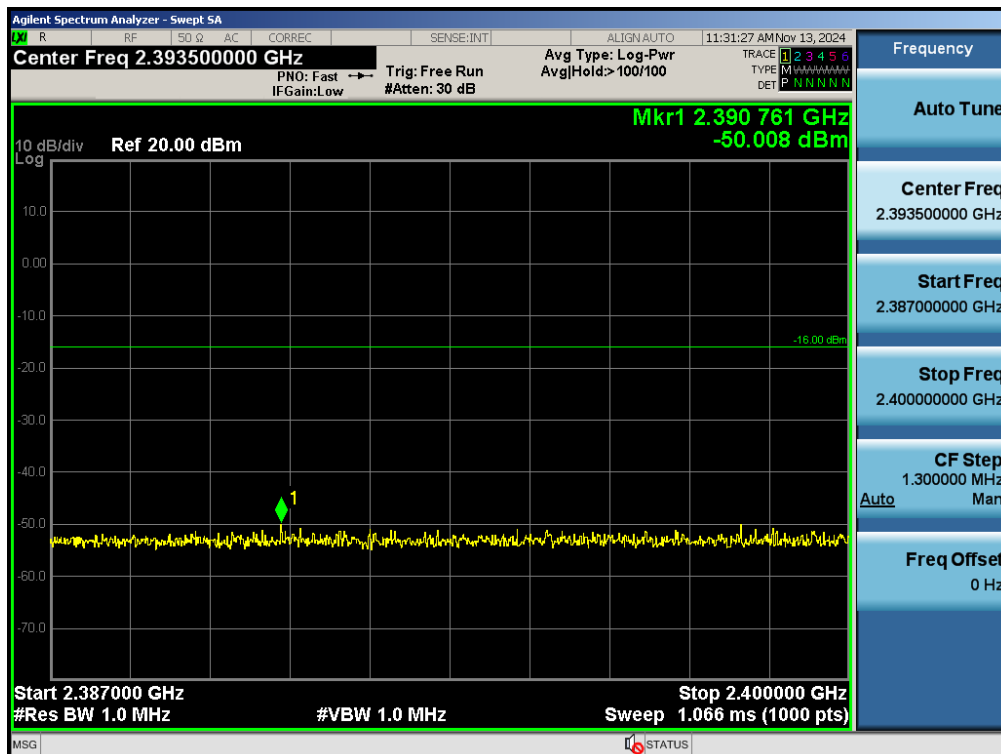
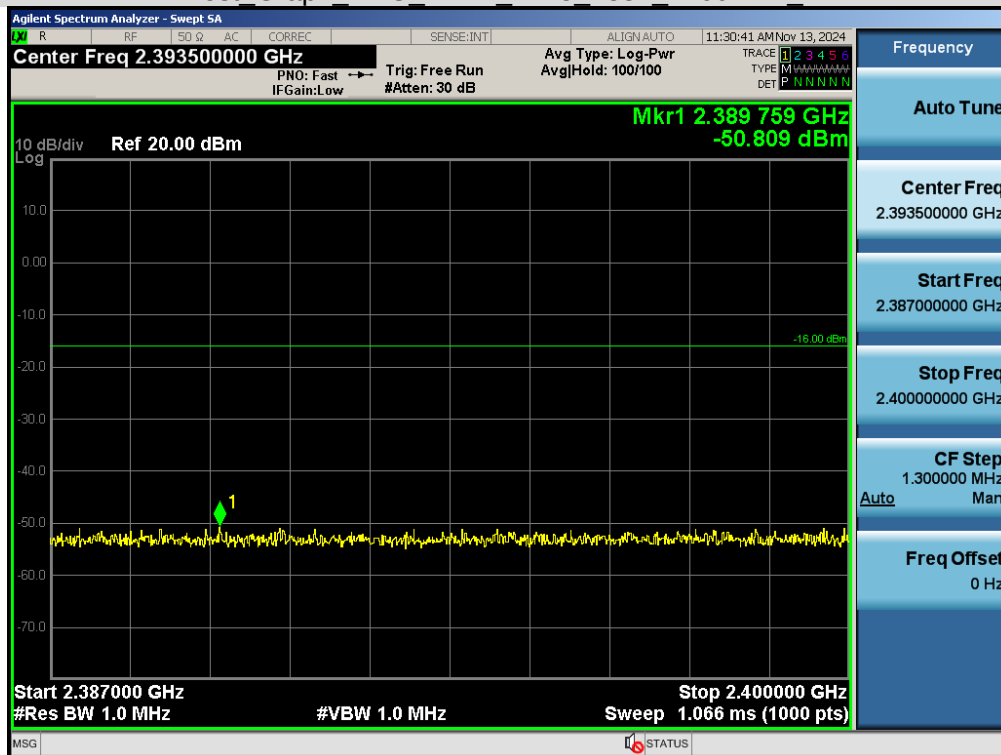
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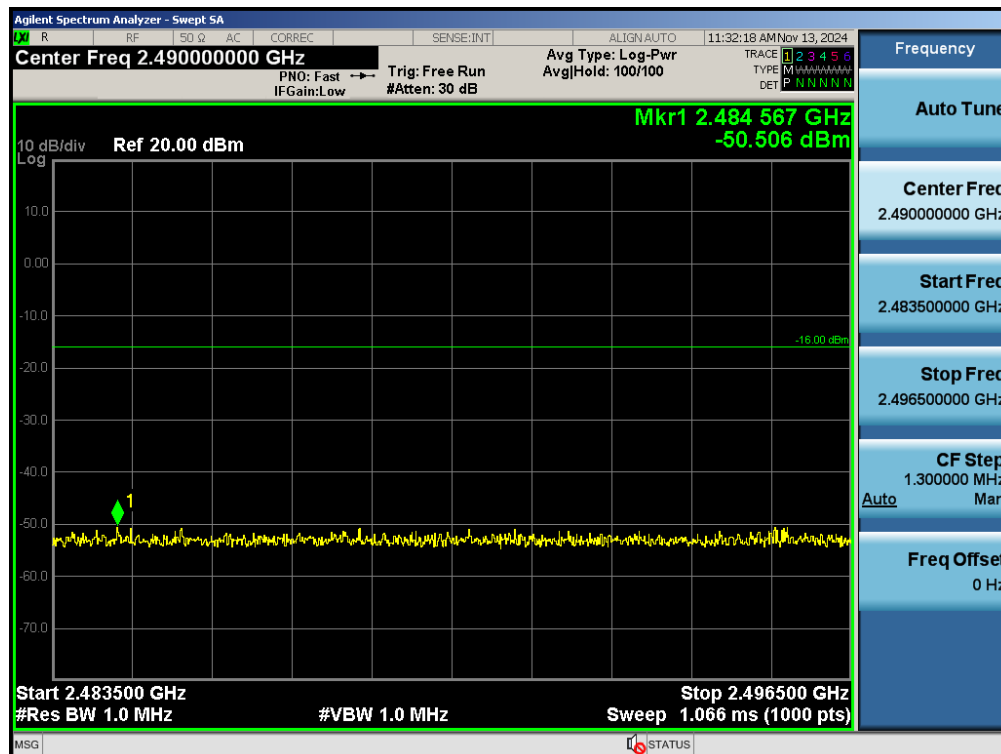
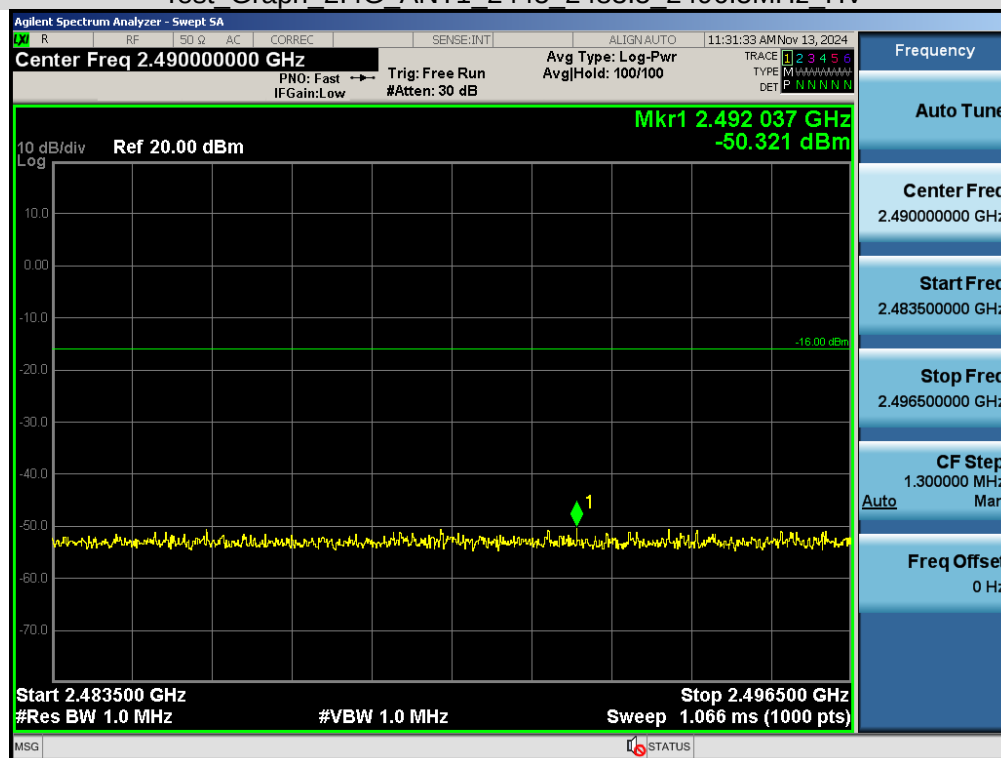
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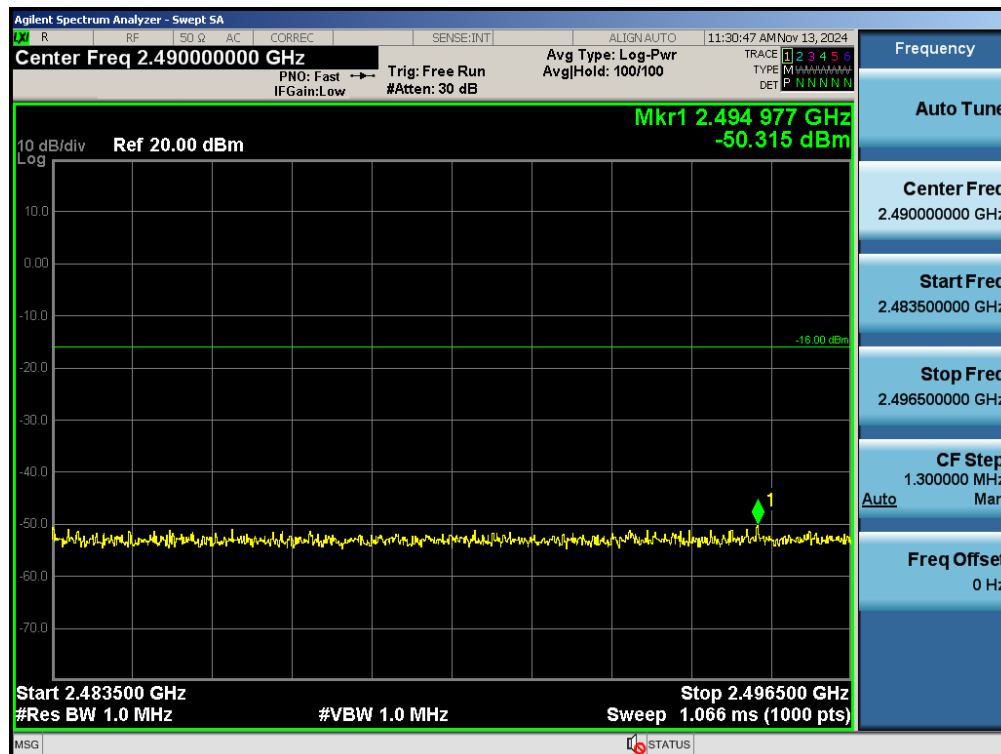
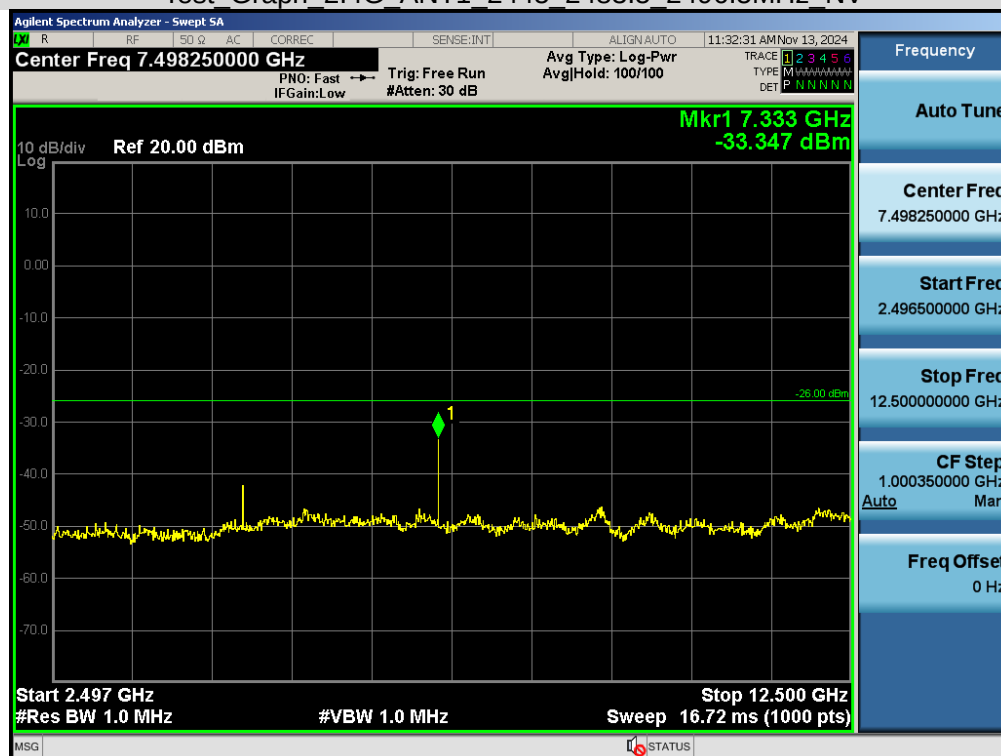
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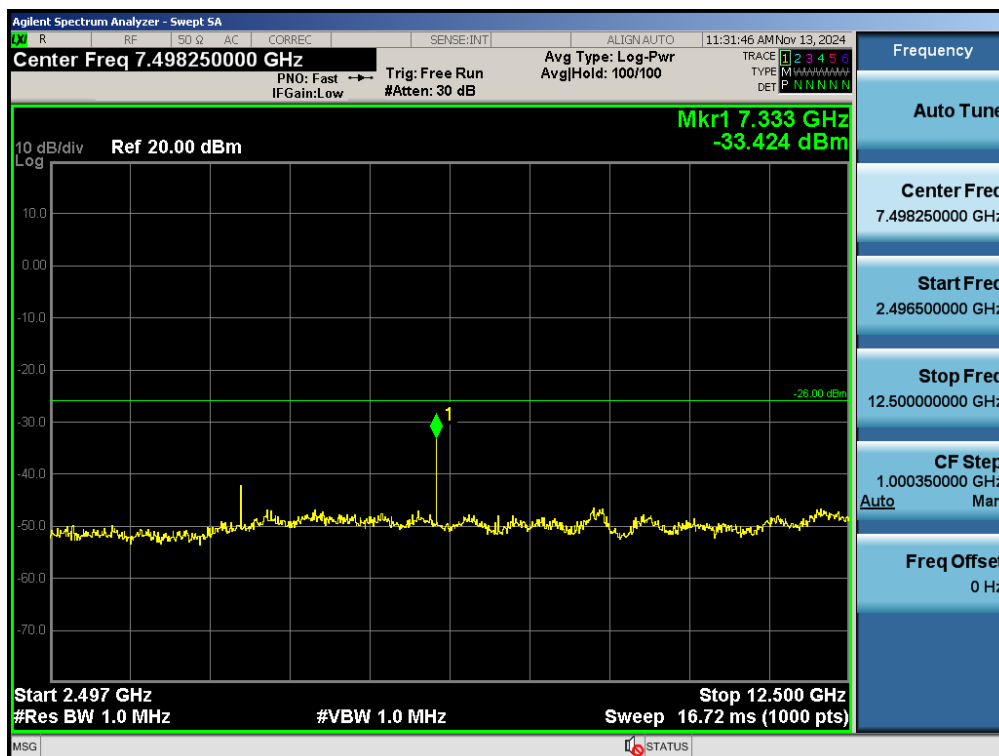
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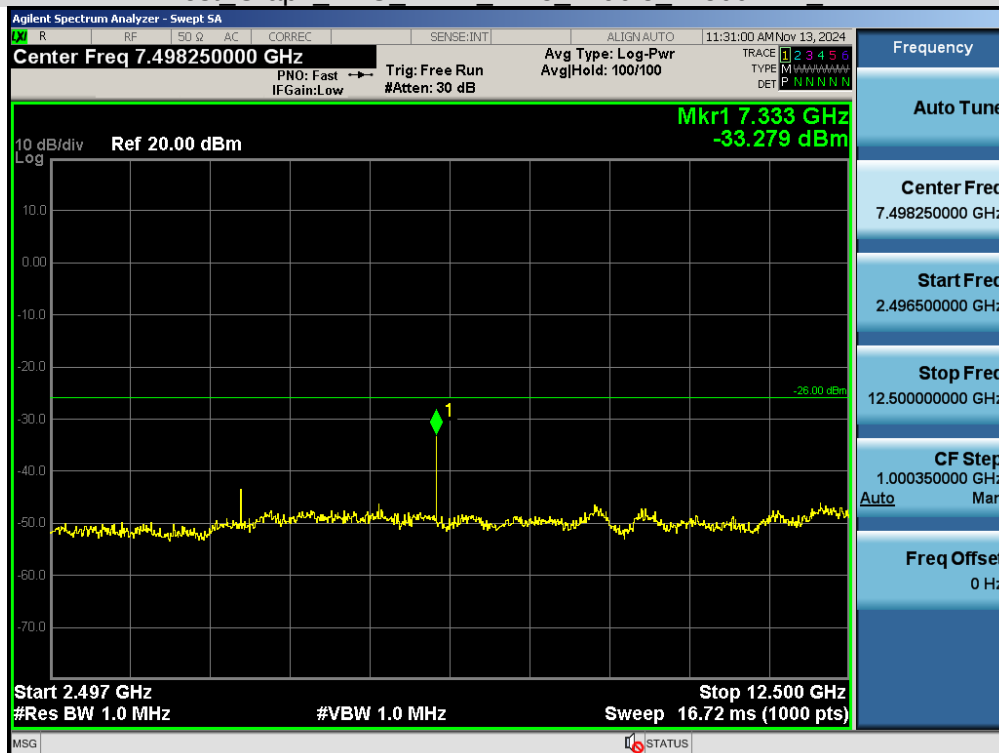


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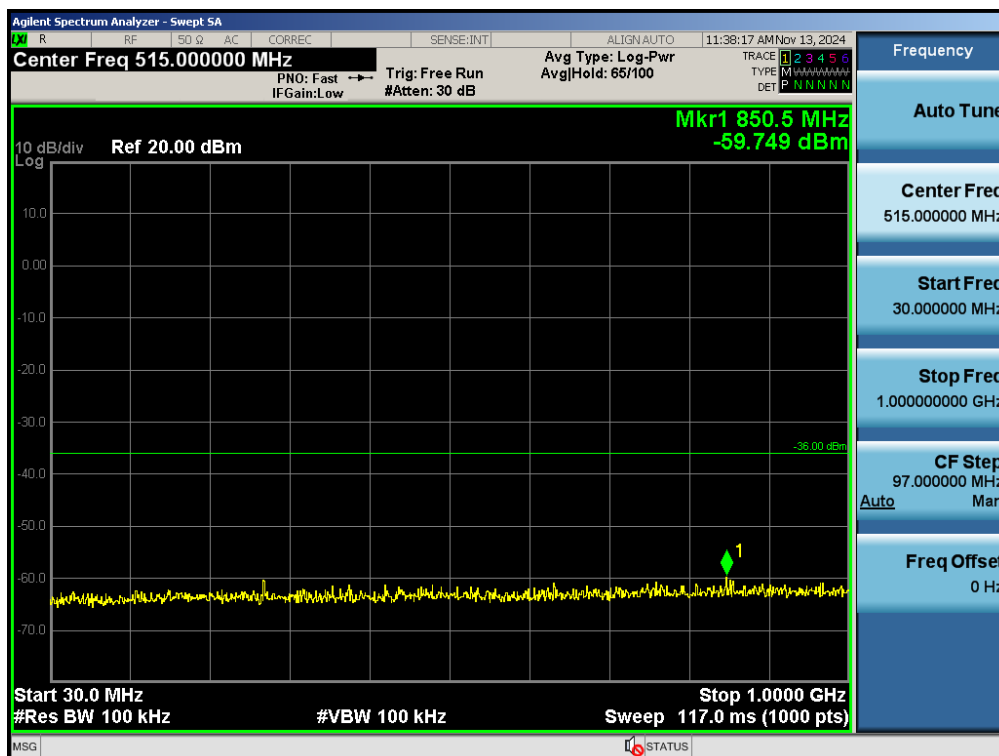
Test Graph 2.4G ANT1 2445 2496.5 12500MHz LV



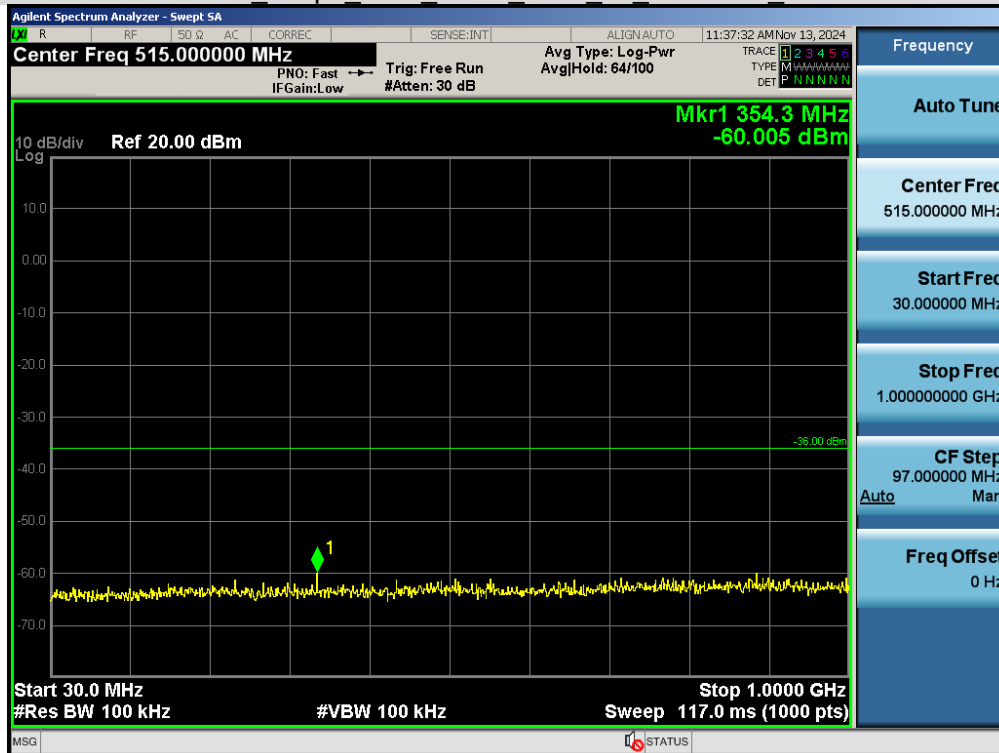
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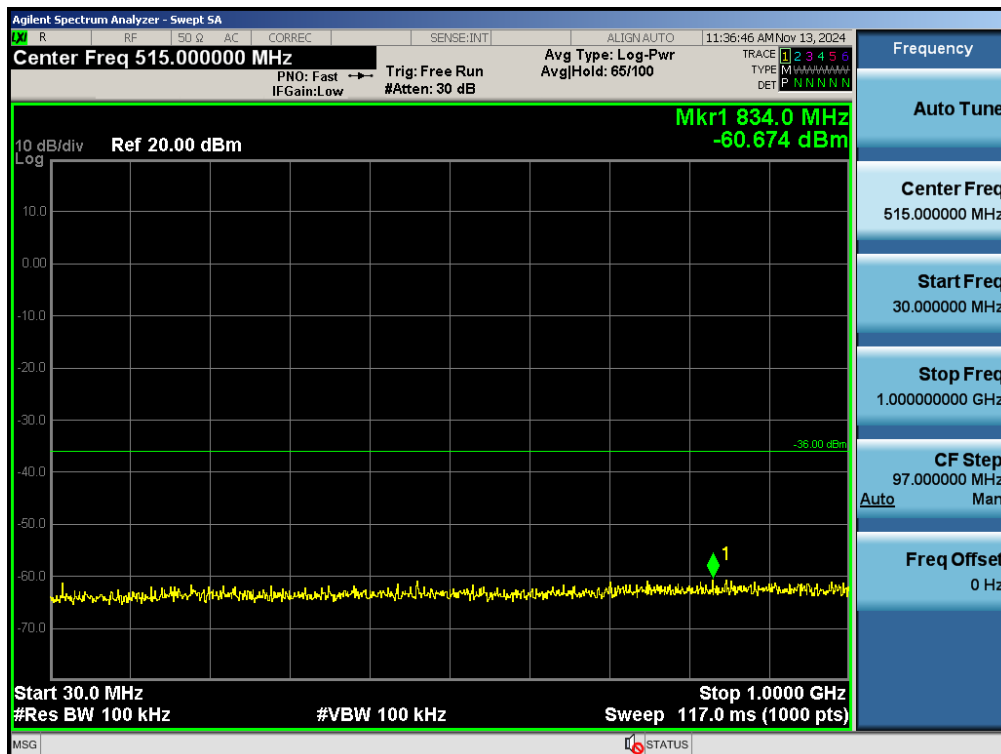
Test Graph 2.4G ANT1 2475 30 1000MHz HV



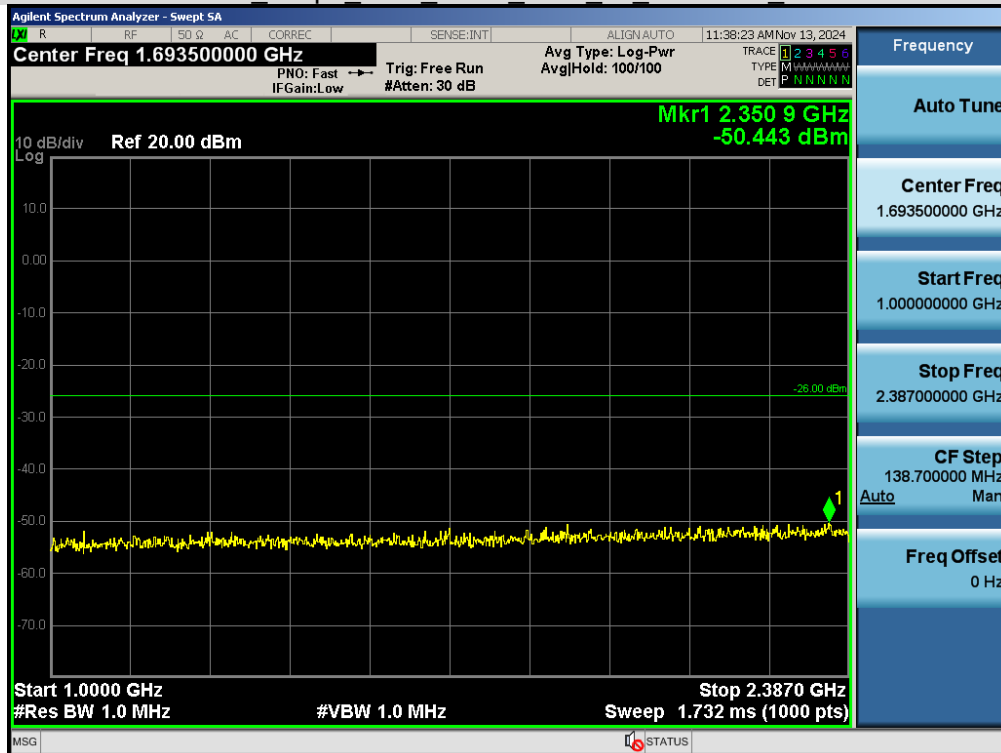
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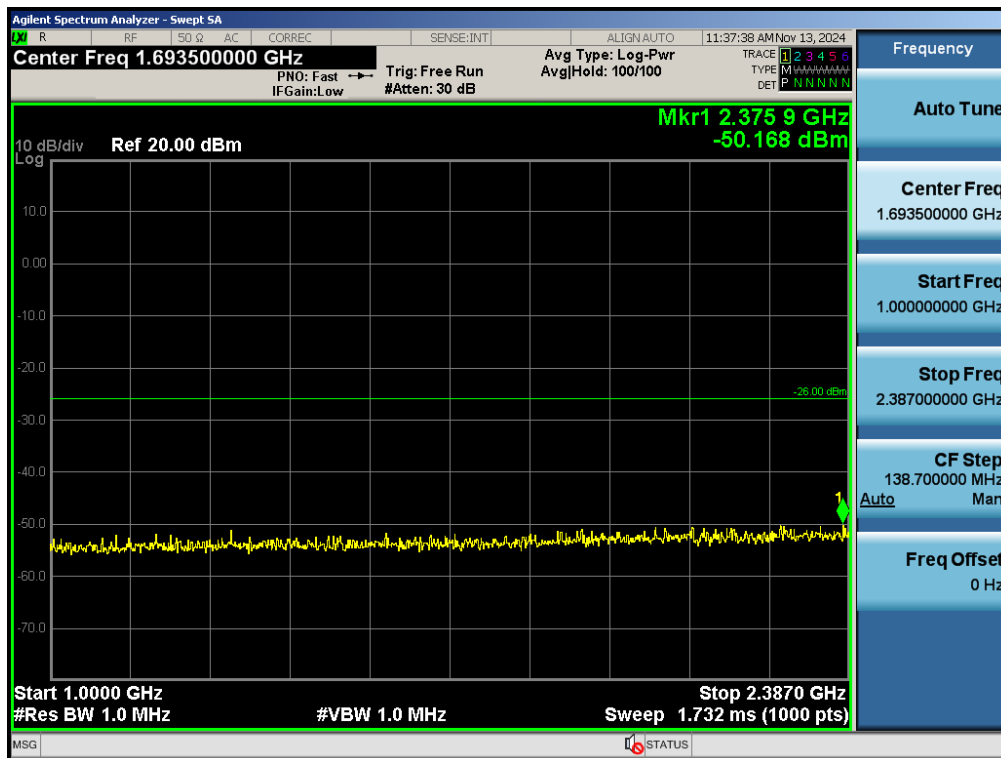
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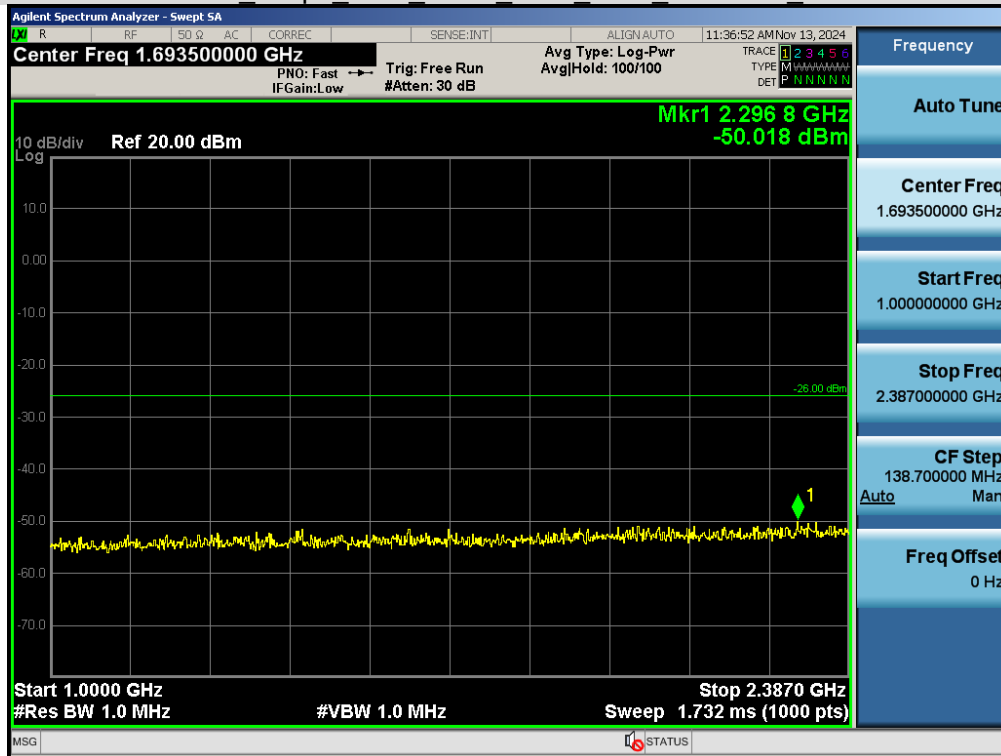
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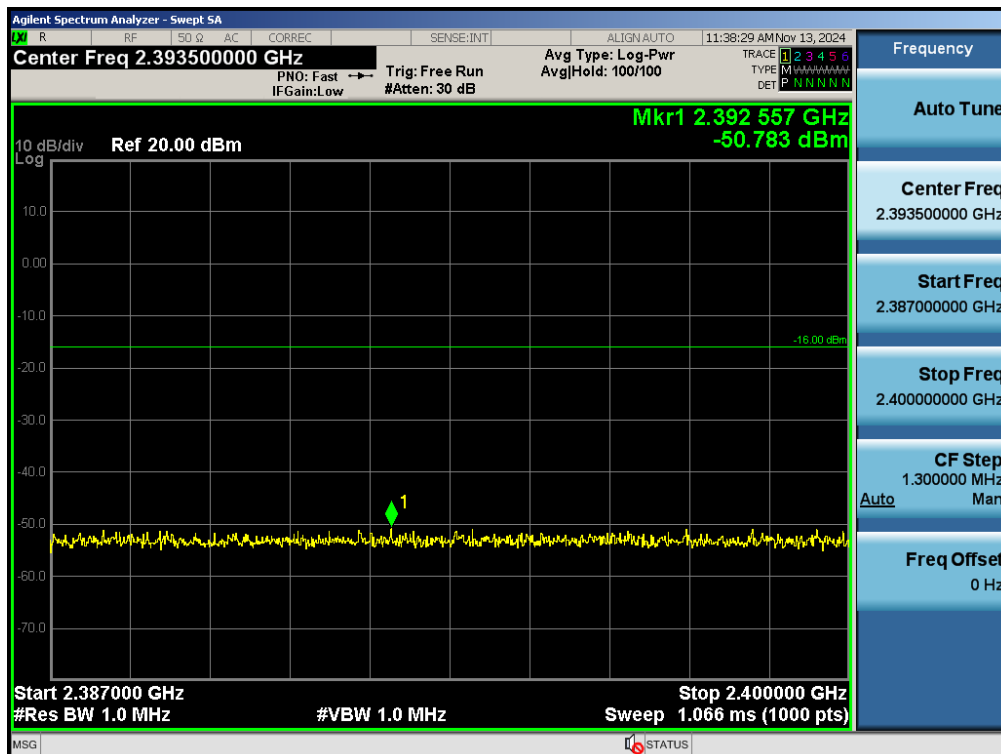


Test Graph 2.4G ANT1 2475 1000 2387MHz LV

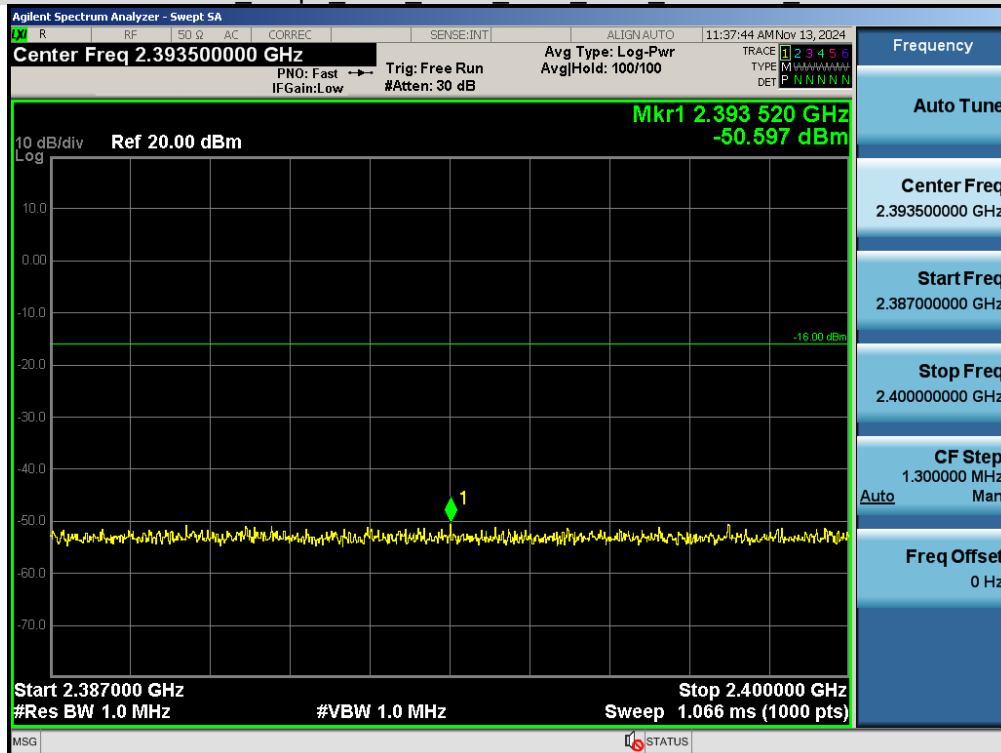


Test_Graph_2.4G_ANT1_2475_1000_2387MHz_NV

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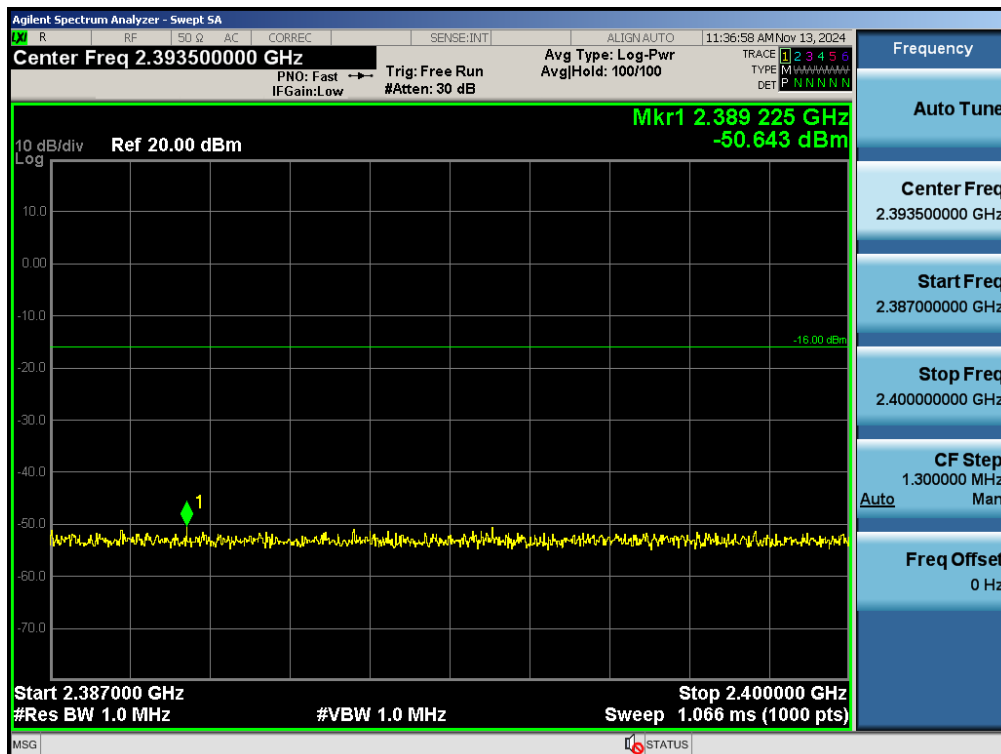
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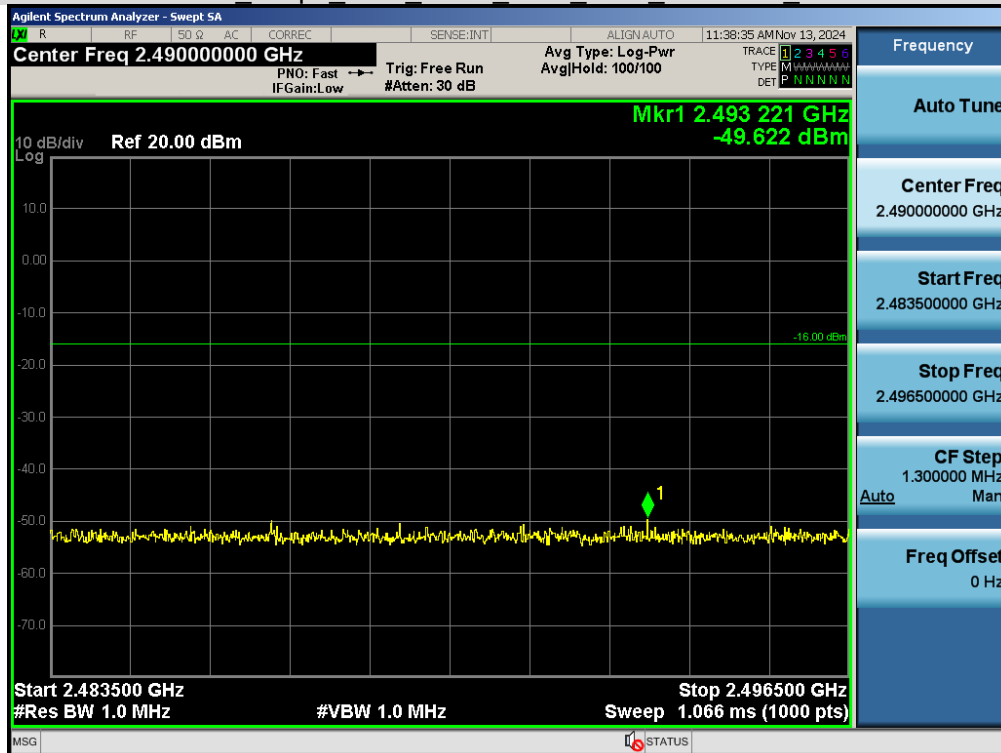
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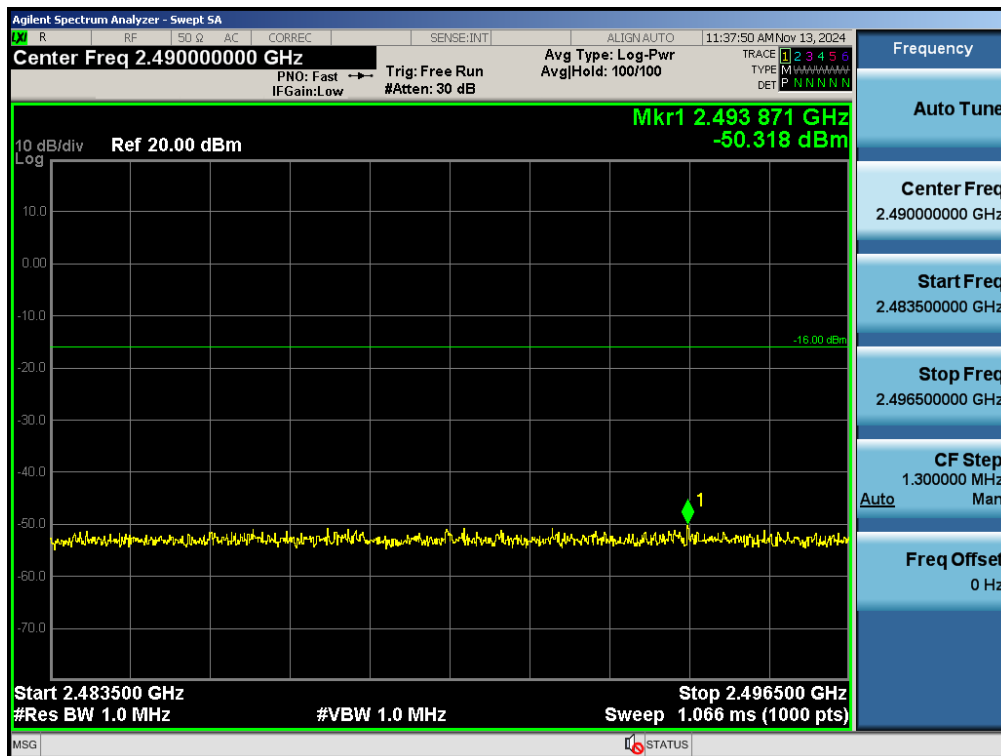
Test Graph 2.4G ANT1 2475 2387 2400MHz NV



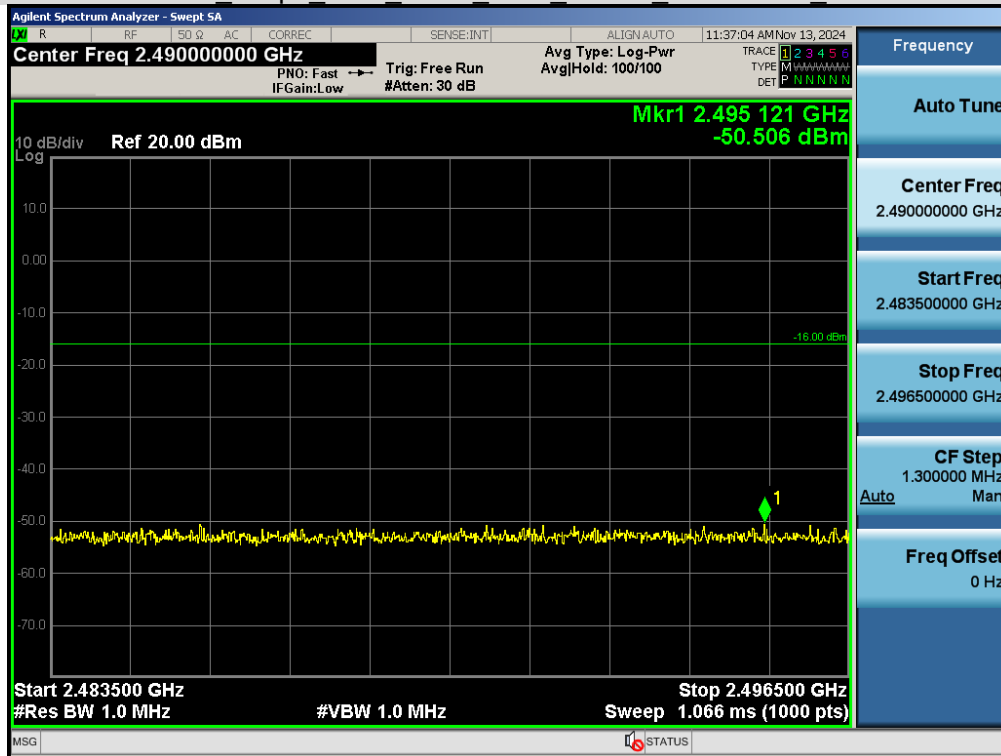
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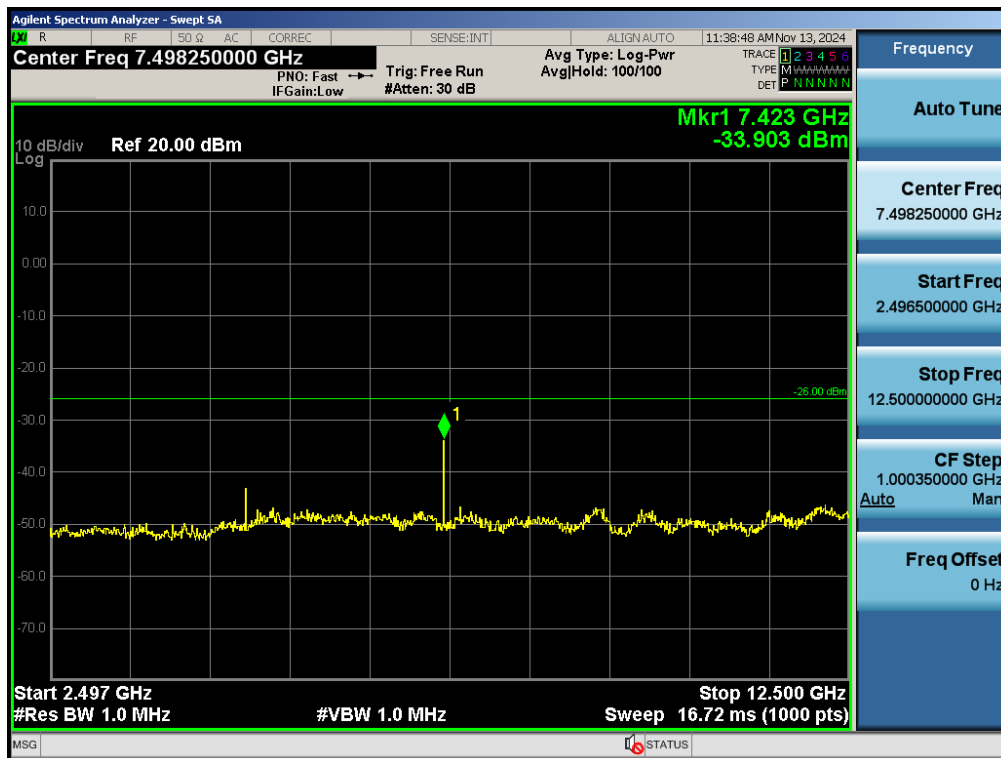
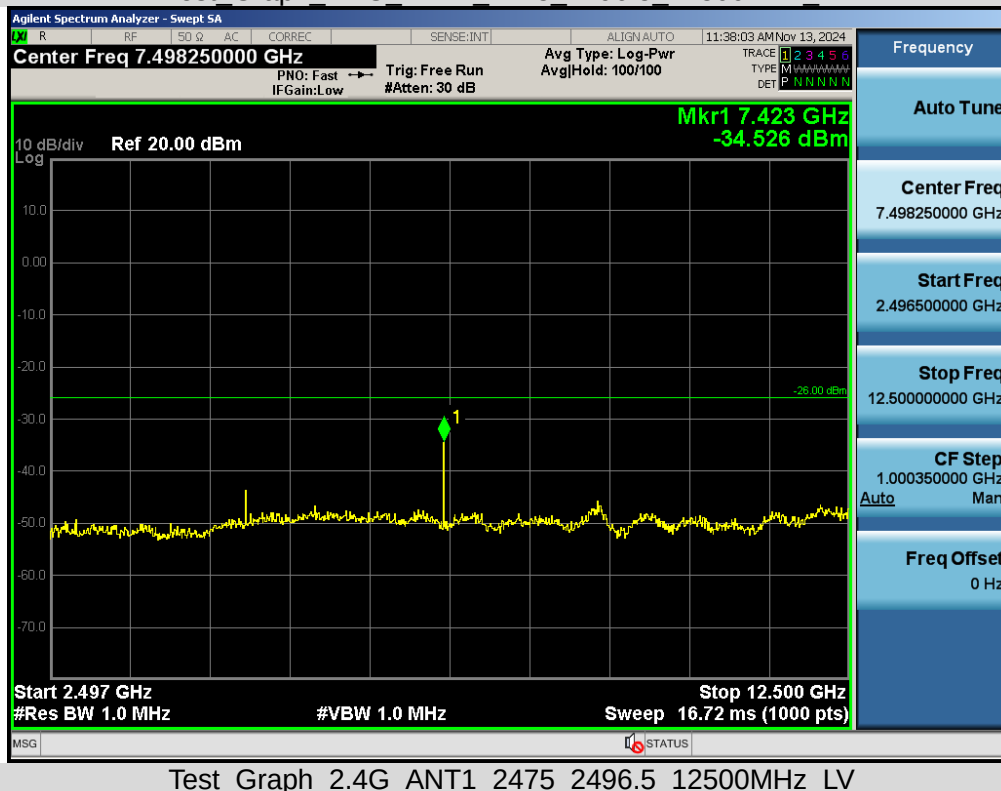
Test Graph 2.4G ANT1 2475 2483.5 2496.5MHz LV



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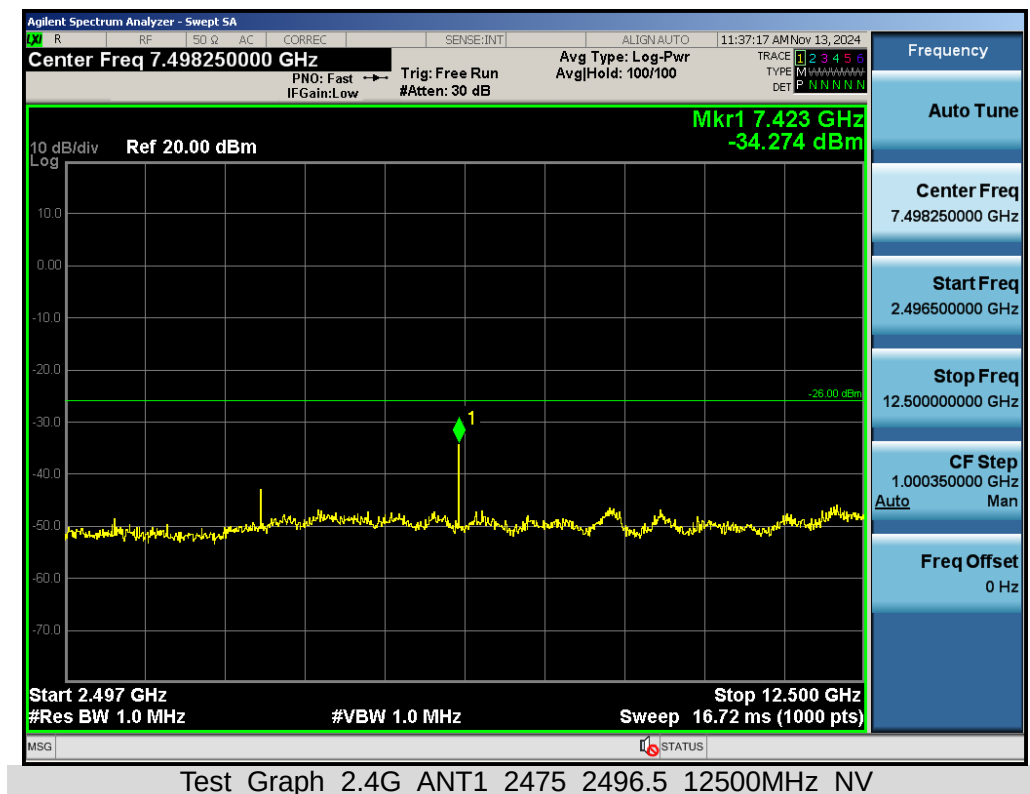
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5.4 Antenna Power Error Measurement

Test Limit

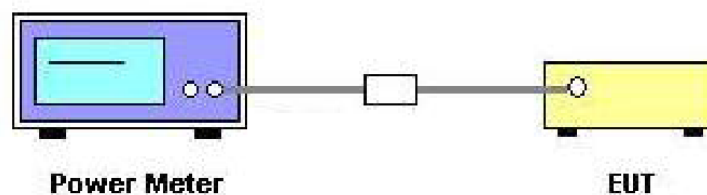
Test Item	Limits
Antenna Power	$\leq 3\text{mW/MHz}$ (FH system from 2400 to 2483.5MHz)
	$\leq 10\text{mW/MHz}$ (FH system from 2400 to 2427MHz)
	$\leq 10\text{mW/MHz}$ (FH system from 2470.75 to 2483.5MHz)
	$\leq 10\text{mW/MHz}$ (OFDM, DS 20MHz system)
	$\leq 10\text{mW}$ (Others)
	$\leq 5\text{mW}$ 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



Test Result

Test Temperature	26℃	Relative Humidity	59%
Test Pressure	101kPa	Test Engineer	Vicky Huang
Testing Time	2024-11-13		

Test Data of Antenna Power					
Test Mode	Antenna Power (mW)			Limit (mW)	P/F
	NV	LV	HV		
2.4G_2405	0.663	0.663	0.671	10	Pass
2.4G_2445	0.683	0.684	0.680	10	Pass
2.4G_2475	0.686	0.693	0.693	10	Pass

Test Data of Antenna Power Error						
Test Mode	Rated power (mW)	Antenna Power Error (%)			Limit (%)	P/F
		NV	LV	HV		
2.4G_2405	0.8	-17.13	-17.13	-16.13	20	Pass
2.4G_2445	0.8	-14.63	-14.50	-15.00	20	Pass
2.4G_2475	0.8	-14.25	-13.38	-13.38	20	Pass

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5.5 EIRP Antenna Power Measurement

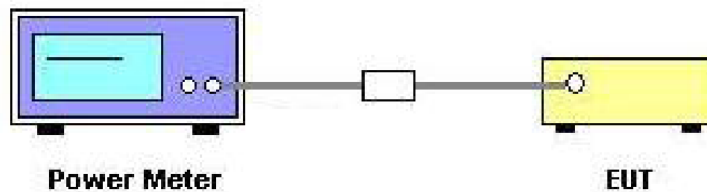
Test Limit

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	26°C	Relative Humidity	59%
Test Pressure	101kPa	Test Engineer	Vicky Huang
Testing Time	2024-11-13		

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		
2.4G_2405	-1.78	-1.78	-1.73	2.28	0.50	0.50	0.55	12.14	Pass
2.4G_2445	-1.66	-1.65	-1.67	2.28	0.62	0.63	0.61	12.14	Pass
2.4G_2475	-1.64	-1.59	-1.59	2.28	0.64	0.69	0.69	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	$\leq 4\text{nW}$ ($f < 1000\text{MHz}$)
	$\leq 20\text{nW}$ ($1000\text{MHz} \leq f$)

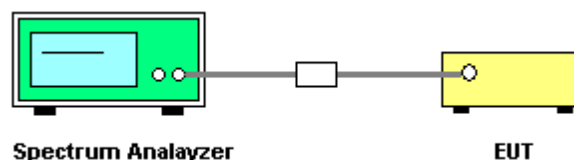
Test Procedure

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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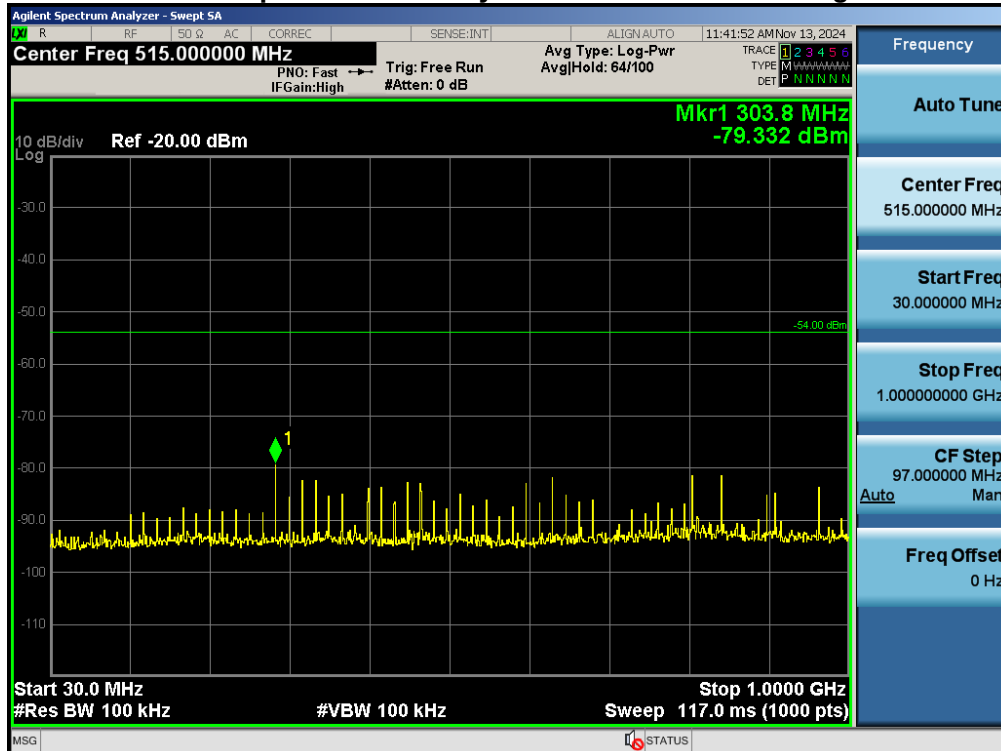
Test Result

Test Temperature	26℃	Relative Humidity	59%
Test Pressure	101kPa	Test Engineer	Vicky Huang
Testing Time	2024-11-13		
Note: only the worst case channel 2405MHz data are put in this test report.			

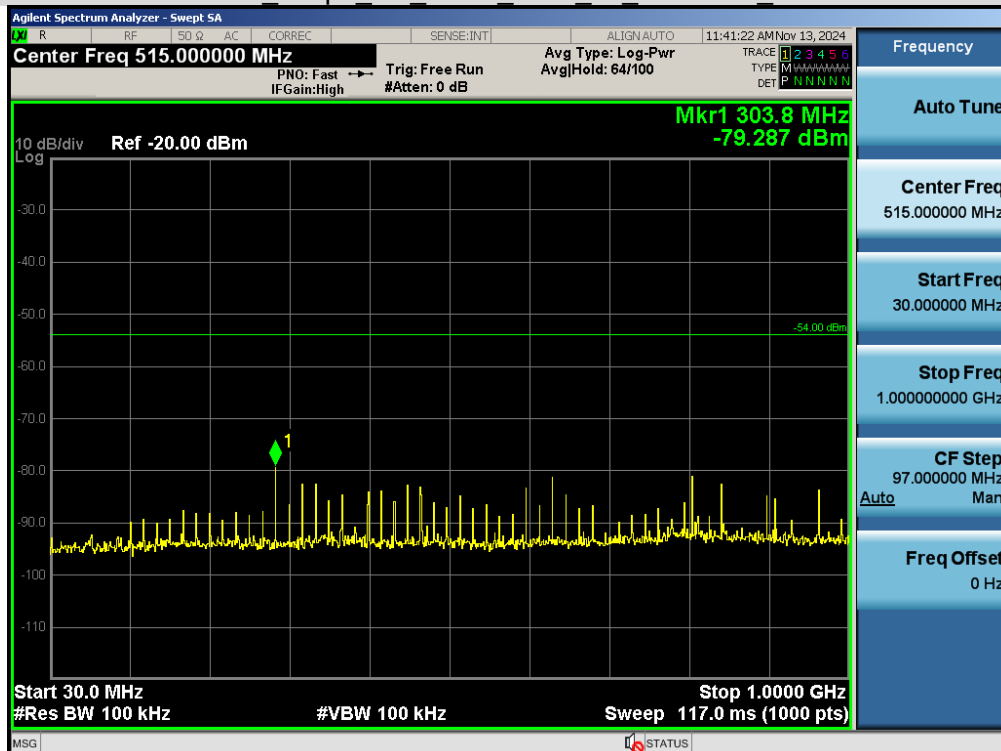
Test Data of Secondary Radiated Emission Strength								
Voltage	Mode	Channel (MHz)	Frequency Range (MHz)	Frequency (MHz)	Result (dBm)	Result (nW)	Limit (nW)	P/F
NV	RX	2405	30~1000	303.8	-79.494	0.011	4	Pass
NV	RX	2405	1000~12500	1920.9	-61.783	0.663	20	Pass
LV	RX	2405	30~1000	303.8	-79.287	0.012	4	Pass
LV	RX	2405	1000~12500	1920.9	-61.747	0.669	20	Pass
HV	RX	2405	30~1000	303.8	-79.332	0.012	4	Pass
HV	RX	2405	1000~12500	1920.9	-61.819	0.658	20	Pass

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Test Graphs of Secondary Radiated Emission Strength



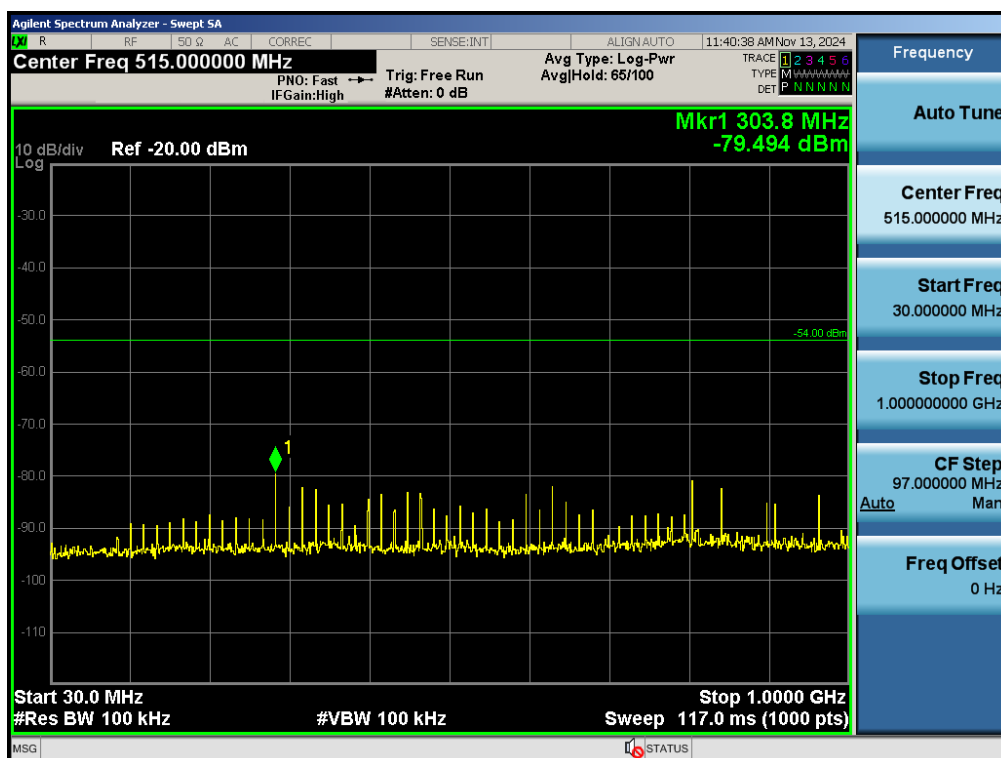
Test Graph RX ANT1 2405 30 1000MHz HV



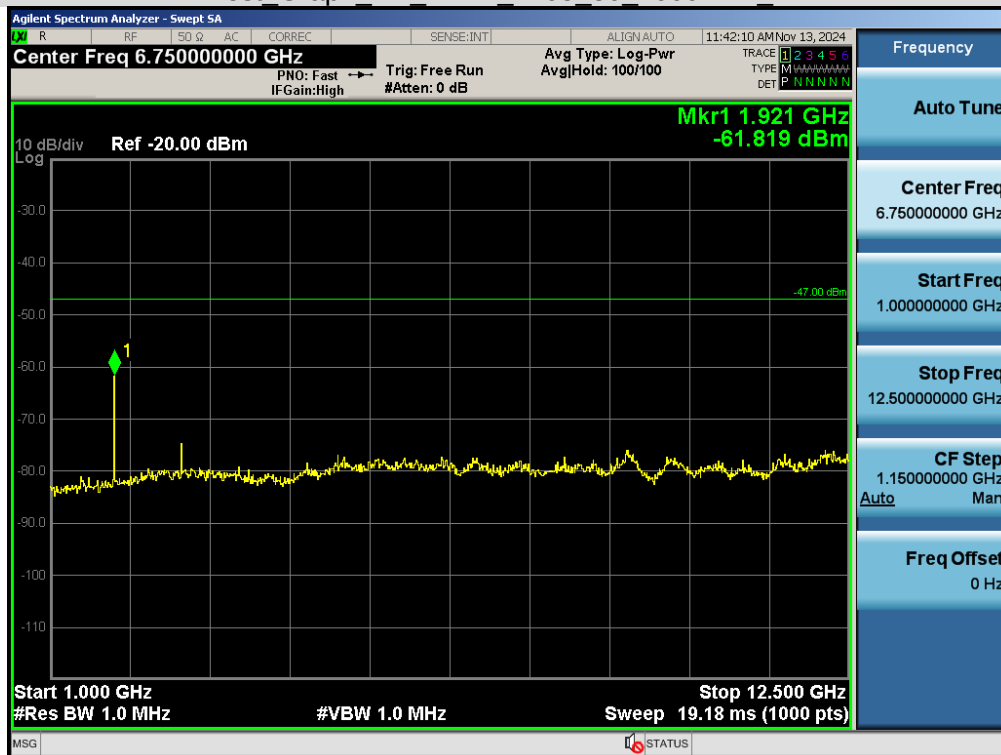
Test_Graph_RX_ANT1_2405_30_1000MHz_LV

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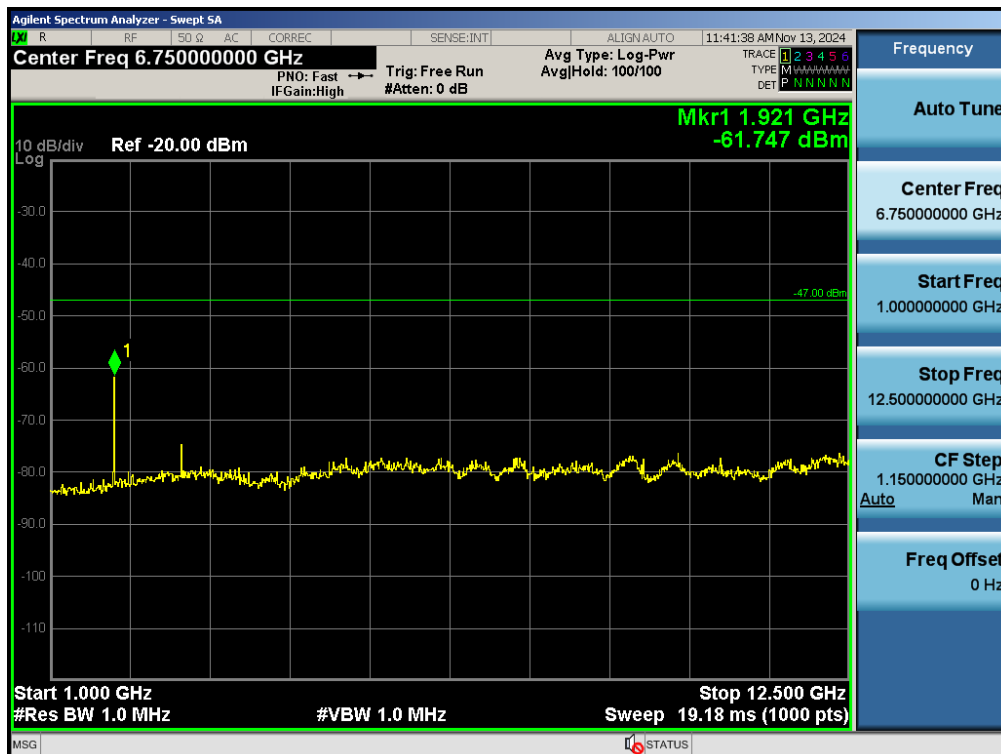
Test Graph RX ANT1 2405 30 1000MHz NV



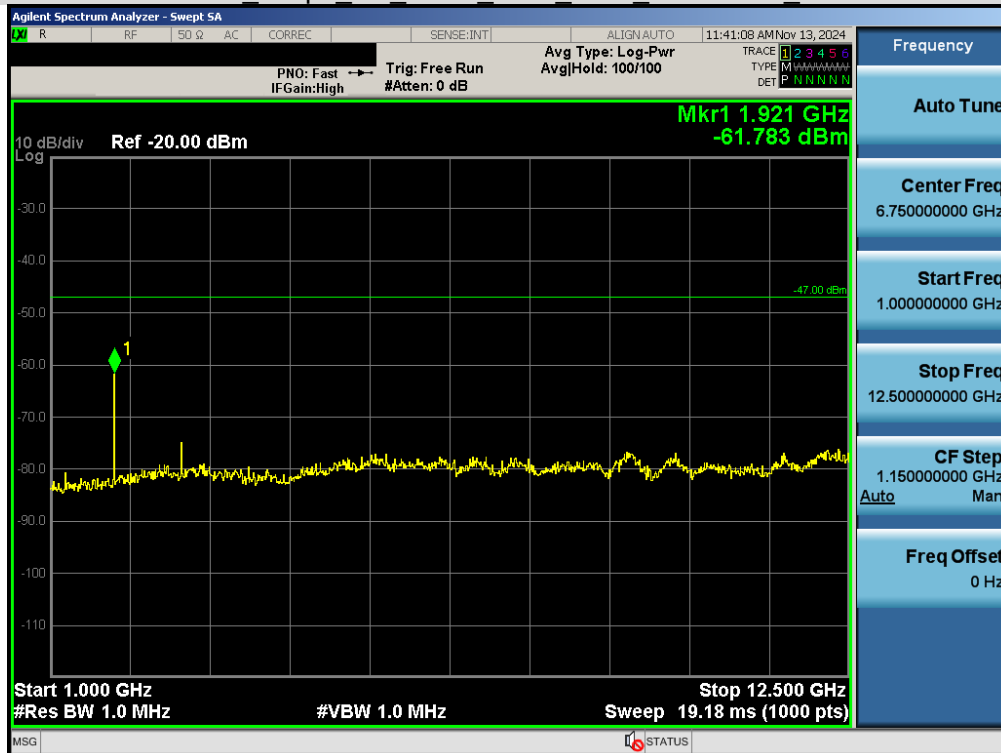
Test_Graph_RX_ANT1_2405_1000_12500MHz_HV

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Test Graph RX ANT1 2405 1000 12500MHz LV



Test_Graph_RX_ANT1_2405_1000_12500MHz_NV

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5.7 Interference Prevention Function Measurement

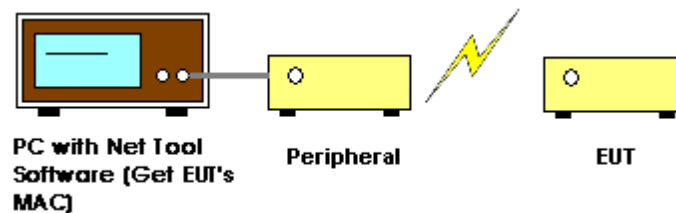
Test Limit

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	26°C	Relative Humidity	59%
Test Pressure	101kPa	Test Engineer	Vicky Huang
Testing Time	2024-11-13		

Test Result of Interference Prevention Function		
Item	MAC address	Test Result
Identification code	02 11 23 34 58 9d	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
Module Package	Module Package of RF (BK3633) and Modulation (TX:16 MHz) portions is QFN type. (Chip pin number:48 /Chip pin angle spacing: 0.445mm)

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC03169241103AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC03169241103AP02

-----End of Report-----

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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.

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