
FCC Test Report

Report No.: AGC16204250301FR01

FCC ID : 2BF7Y-VBM003R

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Jartoo Baby Monitor

BRAND NAME : Jartoo

MODEL NAME : JT-VBM003

APPLICANT : Shenzhen Umbra Technology Co., Ltd.

DATE OF ISSUE : May 21, 2025

STANDARD(S) : FCC Part 15 Subpart C §15.247

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	/	May 21, 2025	Valid	Initial Release

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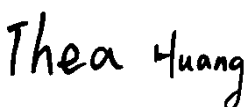
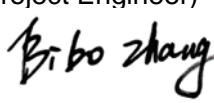

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1. General Information

Applicant	Shenzhen Umbra Technology Co., Ltd.
Address	Room 702, Building 11, Tianan Yungu Industrial Park, Longgang District, Shenzhen, China.
Manufacturer	Shenzhen Umbra Technology Co., Ltd.
Address	Room 702, Building 11, Tianan Yungu Industrial Park, Longgang District, Shenzhen, China.
Factory	Shenzhen Umbra Technology Co., Ltd.
Address	Room 702, Building 11, Tianan Yungu Industrial Park, Longgang District, Shenzhen, China.
Product Designation	Jartoo Baby Monitor
Brand Name	Jartoo
Test Model	JT-VBM003
Series Model(s)	N/A
Difference Description	N/A
Date of receipt of test item	Mar. 07, 2025
Date of Test	Mar. 07, 2025 ~ May 21, 2025
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-Wi-Fi HaLow-V1

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

Prepared By		
	Thea Huang (Project Engineer)	May 21, 2025
Reviewed By		
	Bibo Zhang (Reviewer)	May 21, 2025
Approved By		
	Angela Li (Authorized Officer)	May 21, 2025

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2. Product Information

2.1 Product Technical Description

Equipment Type	Wi-Fi HaLow	
Frequency Band	902MHz-928MHz	
Support Technology Mode	<input type="checkbox"/> IEEE 802.11ah (1MHz BW)	<input checked="" type="checkbox"/> IEEE 802.11ah (2MHz BW)
	<input type="checkbox"/> IEEE 802.11ah (4MHz BW)	<input type="checkbox"/> IEEE 802.11ah (8MHz BW)
Operation Frequency Range	905 MHz to 921MHz for 802.11ah (2MHz Channel Bandwidth)	
Maximum Output Power	IEEE 802.11ah (2MHz BW): 18.196dBm (66.01mW)	
Modulation	OFDM with BPSK/QPSK/16QAM/64QAM	
Data Rate	0.65–8.67 Mbps × NSS for BW 2MHz Note: Declare that the default NSS is 1	
Number of channels	5 for 802.11ah (2MHz Channel Bandwidth)	
Hardware Version	V1.0	
Software Version	1.06T11	
Antenna Designation	External Antenna	
Antenna Gain	0.7dBi	
Power Supply	DC 4.35V by battery or DC 5V by adapter	
Adapter Information	Model: TEKA-UCA20US Input:100-240V 50/60Hz 0.35A MAX Output:5.0V=2A Manufacturer: ShenZhen TEKA Technology Co., Ltd.	
Battery Information	Model: 628598PN3 Rated Voltage & Cap.: DC 4.35V 8400mAh Manufacturer: Chongqing VDL Electronics Co., Ltd.	

2.2 Test Frequency List

- Frequency and Channel list for 802.11ah (2MHz channel bandwidth):

Frequency Band	Channel Number	Test Frequency
902~928MHZ	0	905 MHz
	1	909 MHz
	2	913 MHz
	3	917 MHz
	4	921 MHz

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2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: 2BF7Y-VBM003R, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules

2.5 Special Accessories

Not available for this EUT intended for grant.

2.6 Equipment Modifications

Not available for this EUT intended for grant.

2.7 Antenna Requirement

Standard Requirement
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi</p> <p>EUT Antenna: The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 0.7dBi.</p>

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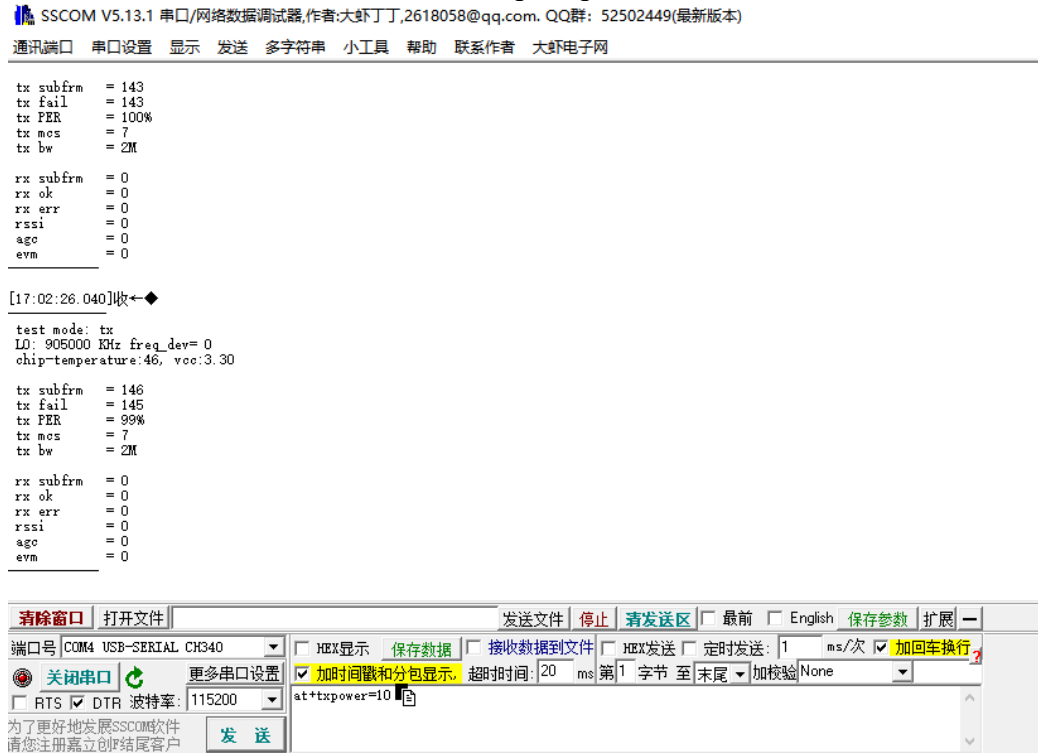
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2.8 Description of Test Software

For IEEE 802.11ah mode:

The test utility software used during testing was “SSCOM, and the version was “V5.13.1”.

Software Setting Diagram



Test Mode	Channel	Power Index
IEEE 802.11ah (2 MHz BW)	L/M/H	10

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3. Test Environment

3.1 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

3.2 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/IEC 17025: 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.

3.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106
Power supply	DC 5V by adapter

3.4 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 Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
Uncertainty of total RF Power, Conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF Power Density, Conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of Spurious Emissions, Conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$
Uncertainty of Dwell Time	$U_c = \pm 2 \%$

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3.5 List of Equipment Use

● 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)
<input checked="" type="checkbox"/>	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024-05-24	2025-05-23
<input checked="" type="checkbox"/>	AGC-ER-A007	6dB Fixed Attenuator	Mini circuits	BW-S6-2W263A+	N/A	2025-01-30	2026-01-29
<input checked="" type="checkbox"/>	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A
<input checked="" type="checkbox"/>	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input type="checkbox"/>	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2025-01-14	2026-01-13
<input checked="" type="checkbox"/>	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2024-05-24	2025-05-23
<input checked="" type="checkbox"/>	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2024-05-28	2025-05-27
<input checked="" type="checkbox"/>	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04
<input checked="" type="checkbox"/>	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10
<input checked="" type="checkbox"/>	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
<input checked="" type="checkbox"/>	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2025-03-27	2026-03-26
<input checked="" type="checkbox"/>	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23
<input checked="" type="checkbox"/>	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
<input checked="" type="checkbox"/>	AGC-EM-A138	6dB Attenuator	Eeatssheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08
<input type="checkbox"/>	AGC-EM-A139	6dB Attenuator	Eeatssheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08

● AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	AGC-EM-E045	EMI Test Receiver	R&S	ESPI	101206	2024-05-28	2025-05-27
<input checked="" type="checkbox"/>	AGC-EM-A130	6dB Attenuator	Eeatssheep	LM-XX-6-5W	DC-6GZ	2023-06-09	2025-06-08
<input checked="" type="checkbox"/>	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2024-05-28	2025-05-27

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● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
<input checked="" type="checkbox"/>	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
<input checked="" type="checkbox"/>	AGC-EM-S003	RE-Test System	FARA	EZ-EMC	VRA-03A
<input type="checkbox"/>	AGC-EM-S004	RE Test System	Tonscend	TS ⁺ Ver2.1(JS32-RE)	4.0.0.0
<input checked="" type="checkbox"/>	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0

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4. System Test Configuration

4.1 EUT Configuration

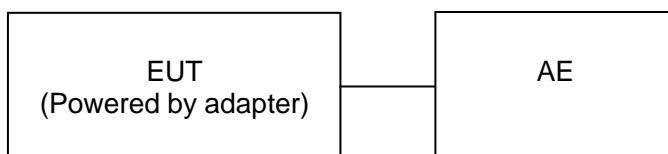
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

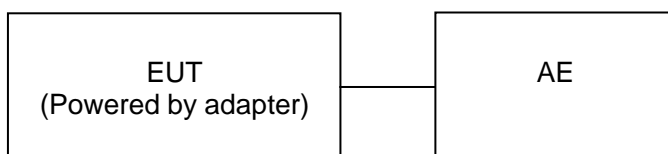
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

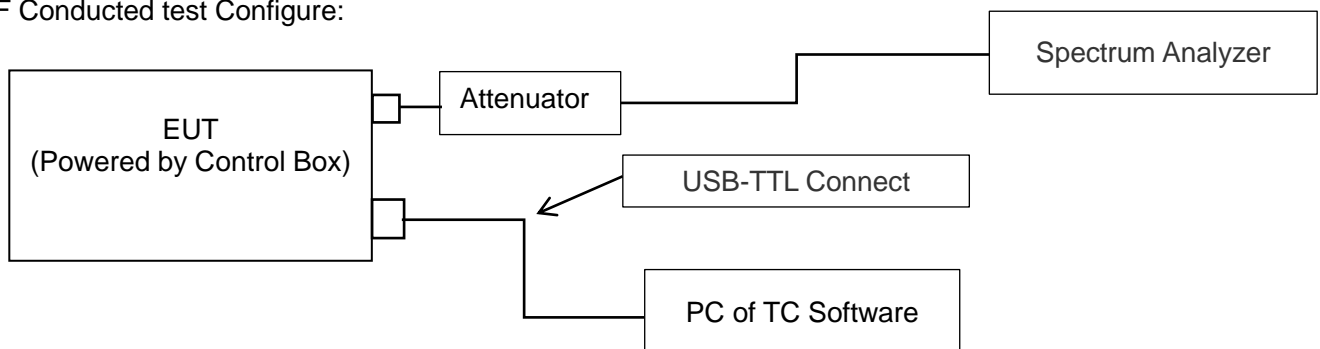
Radiated Emission Configure:



Conducted Emission Configure:



RF Conducted test Configure:



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4.4 Equipment Used In Tested System

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

☒ Test Accessories Come From The Laboratory

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Control Box	RISYM	USB-TTL	--	--

☒ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Adapter	ShenZhen TEKA Technology Co.,Ltd.	TEKA-UCA20US	Input:100-240V 50/60Hz 0.35A MAX Output:5.0V=2.0A	--

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4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.203&15.247(b)(4)	Antenna Equipment	Pass
2	§15.247 (b)(3)	RF Output Power	Pass
3	§15.247 (a)(2)	6 dB Bandwidth	Pass
4	§15.247 (e)	Power Spectral Density	Pass
5	§15.247 (d)	Conducted Band Edge and Out-of-Band Emissions	Pass
6	§15.209	Radiated Emission& Band Edge	Pass
7	§15.207	AC Power Line Conducted Emission	Pass

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5. Description of Test Modes

Summary Table of Test Cases	
Test Item	Data Rate / Modulation
	Wi-Fi HaLow–IEEE 802.11ah(65kbps)/OFDM
Radiated & Conducted Test Cases	Mode 1: 802.11ah TX CH00_905 MHz (2MHz BW)_65kbps(Battery powered or AC/DC adapter)
	Mode 2: 802.11ah TX CH02_913 MHz (2MHz BW)_65kbps s(Battery powered or AC/DC adapter)
	Mode 3: 802.11ah TX CH04_921 MHz (2MHz BW)_65kbps s(Battery powered or AC/DC adapter)
AC Conducted Emission	Mode 1: Wi-Fi HaLow Works Normally in Data Transmission + Battery + USB Cable(Charging from AC Adapter)
Note: 1. All technical configurations are pre-scanned, and the low rate is the worst data mode. 2. The battery is full-charged during the test. 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode. 4. For Conducted Test method, a temporary antenna connector is provided by the manufacture.	

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6. Duty Cycle Measurement

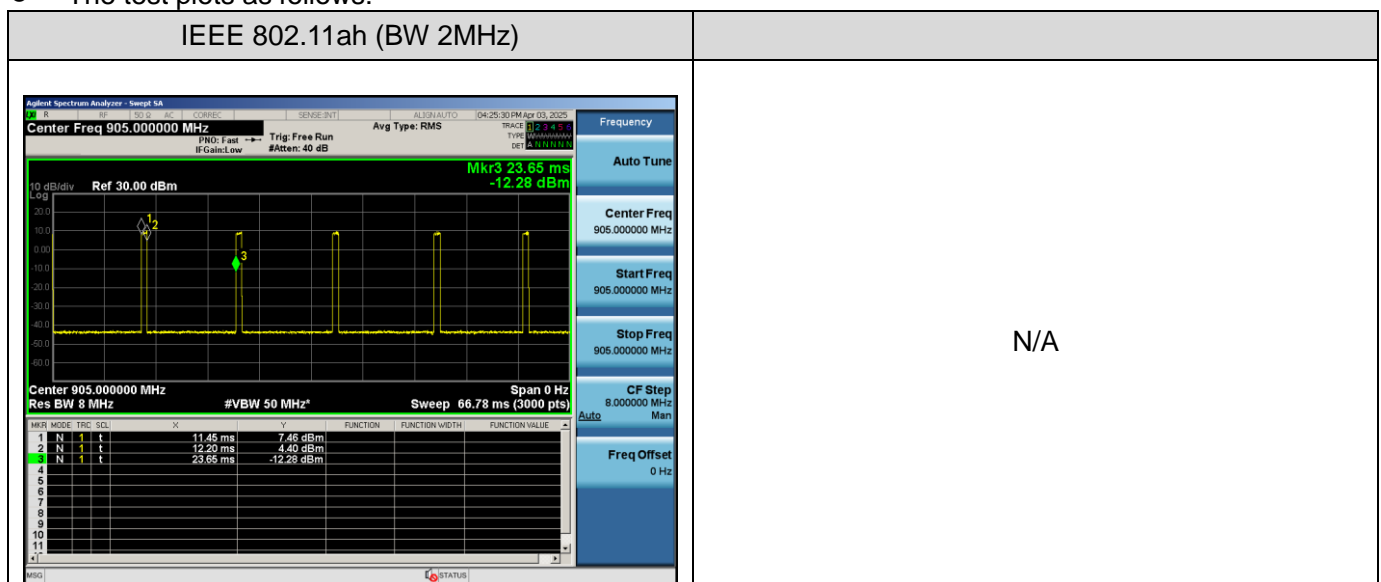
The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Average. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Operating mode	T(μs)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/ T Minimum VBW (kHz)
IEEE 802.11ah (BW 2MHz)	0.75	6.15	12.11	1333.33

Remark:

1. Duty Cycle factor = $10 * \log (1/ \text{Duty cycle})$
2. The default configuration duty cycle test records the channel, and the software calculates and compensates it into the result.

- The test plots as follows:



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7. RF Output Power Measurement

7.1 Provisions Applicable

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 902-928 MHz bands shall not exceed: 1 Watt (30dBm).

7.2 Measurement Procedure

☒ For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.1 Method Max peak power:

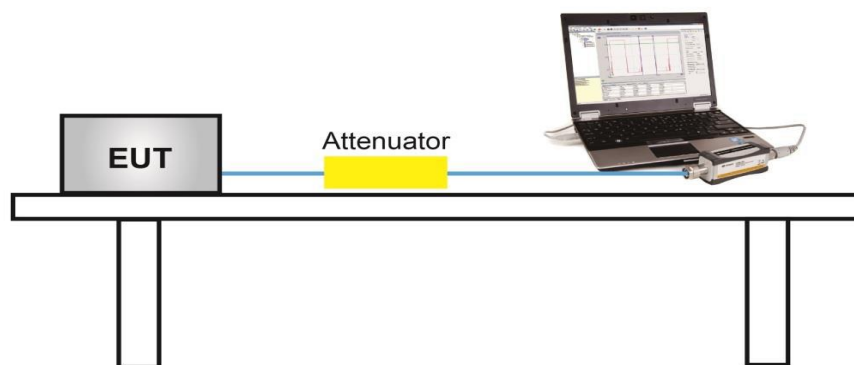
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the RBW \geq DTS bandwidth
3. Set the VBW \geq [3 \times RBW].
4. Span \geq [3 \times RBW].
5. Sweep= auto couple.
6. Detector Function= Peak.
7. Trace mode= Max hold.
8. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

☐ For Average power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G:

1. The RF output of EUT was connected to the power meter by RF cable and attenuator.
2. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

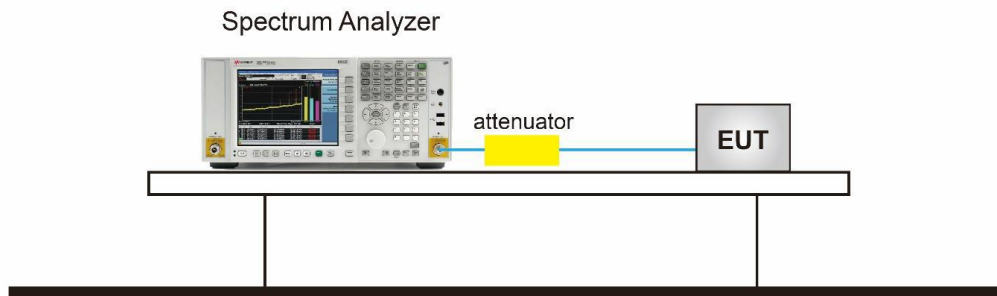
7.3 Measurement Setup (Block Diagram of Configuration)

☐ For Average power test setup



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☒ For peak power test setup



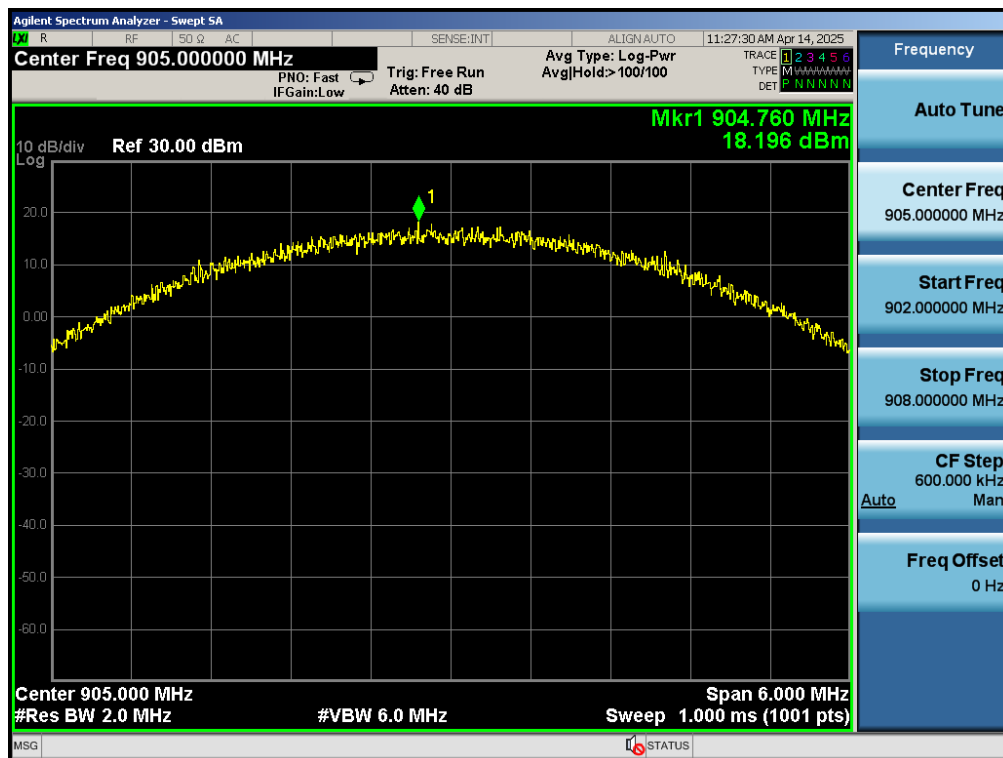
7.4 Measurement Result

Test Data of Conducted Output Power					
Test Mode	Channel	Test Frequency (MHz)	Peak Power (dBm)	Limits (dBm)	Result
802.11ah_2MHz BW	01	905	18.196	≤30	Pass
	02	913	17.296	≤30	Pass
	04	921	17.968	≤30	Pass

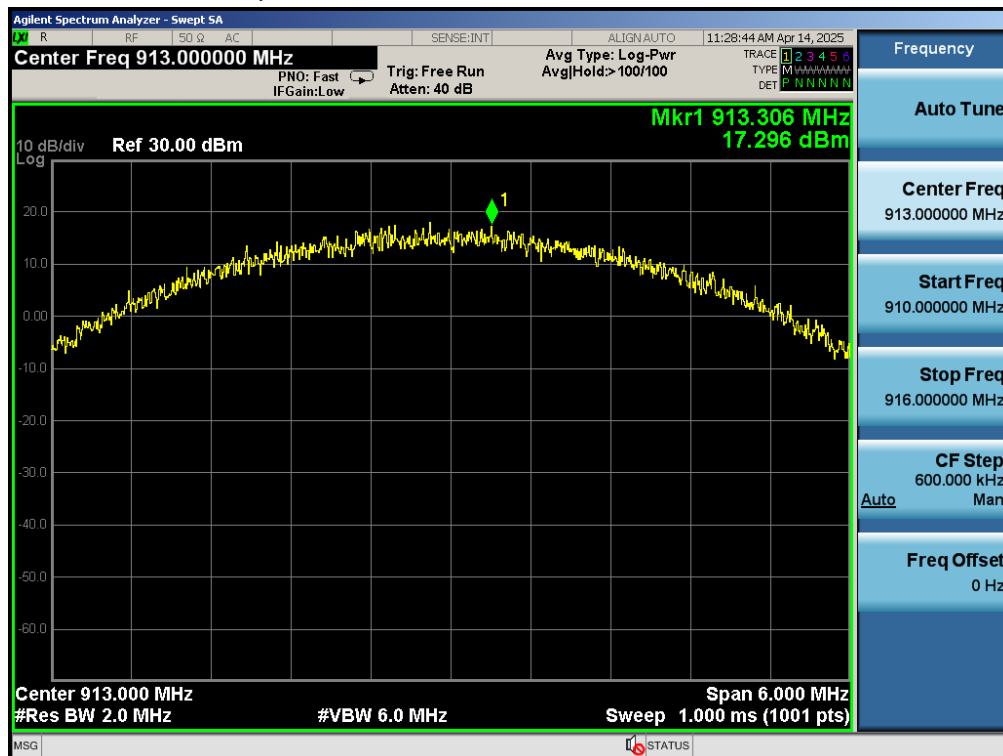
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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Test Graphs of Conducted Output Power

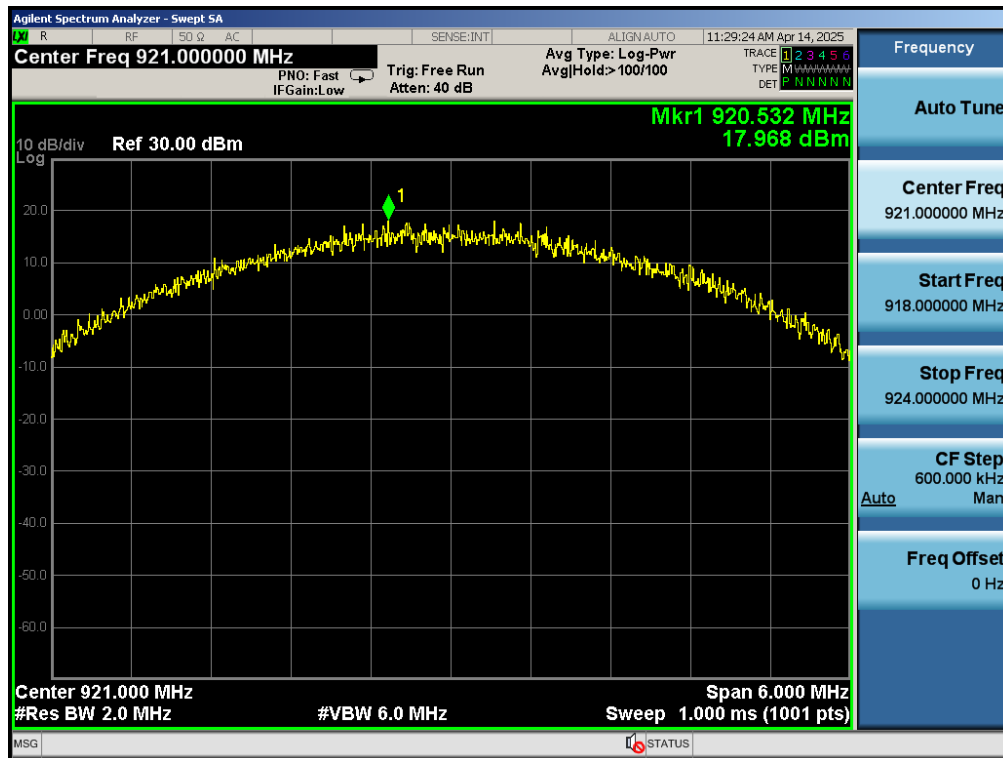


Test_Graph_802.11ah_ANT1_905_BW 2MHz_Peak Power



Test_Graph_802.11ah_ANT1_913_BW 2MHz_Peak Power

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Test_Graph_802.11ah_ANT1_921_BW 2MHz_Peak Power

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8. 6dB Bandwidth Measurement

8.1 Provisions Applicable

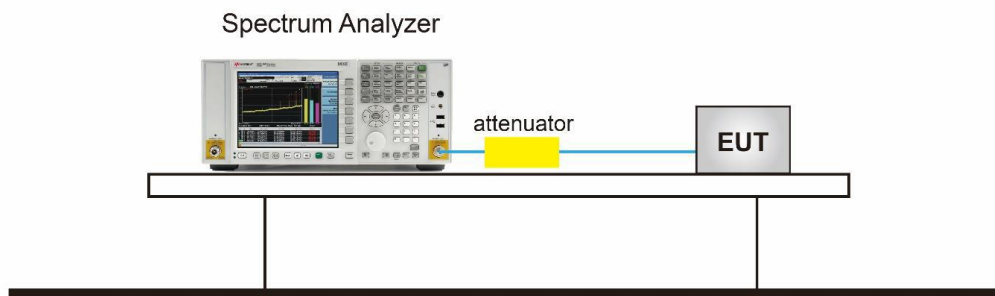
The minimum 6dB bandwidth shall be 500 kHz.

8.2 Measurement Procedure

The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).

1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
4. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the OBW and set the Video bandwidth (VBW) $\geq 3 * \text{RBW}$.
5. Measure and record the results in the test report.

8.3 Measurement Setup (Block Diagram of Configuration)



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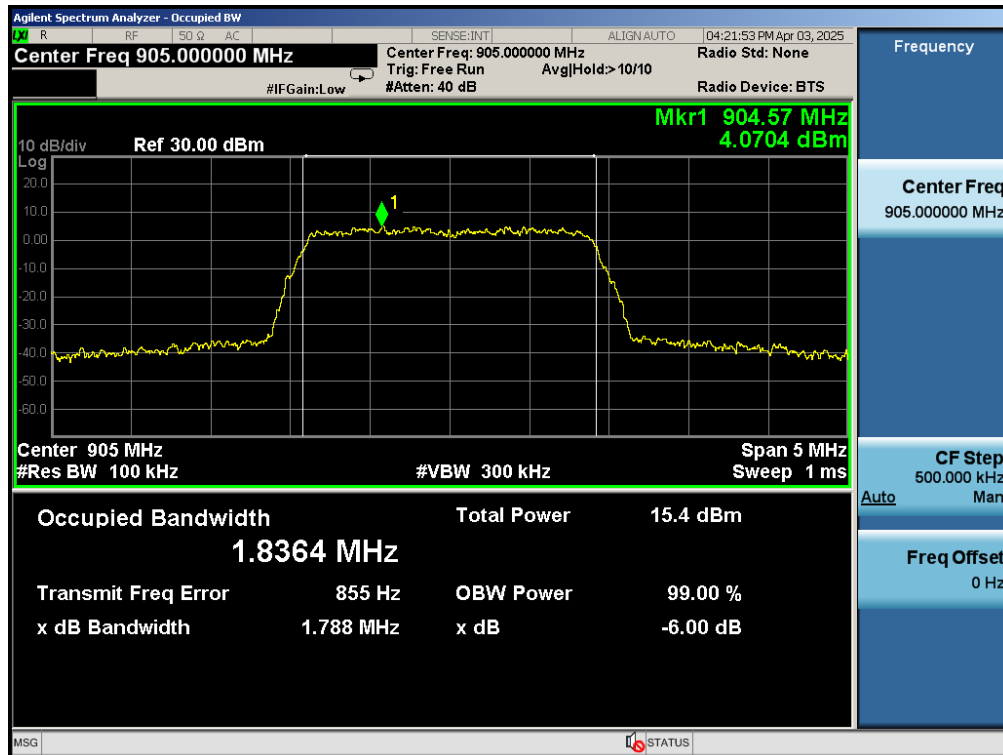
8.4 Measurement Results

Test Data of DTS Bandwidth					
Test Mode	Channel	Frequency (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Result
802.11ah_BW 2MHz	0	905.0	1.788	≥0.5	Pass
	2	913.0	1.791	≥0.5	Pass
	4	921.0	1.799	≥0.5	Pass

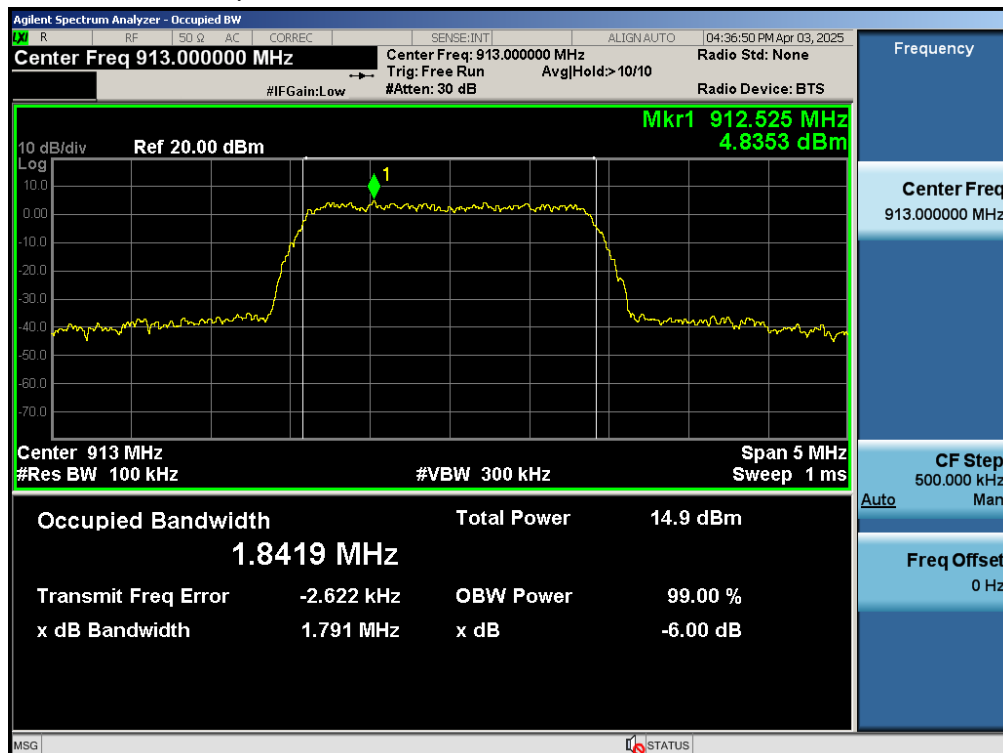
Test Data of Occupied Bandwidth					
Test Mode	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Limits (MHz)	Result
802.11ah_BW 2MHz	0	905.0	1.7845	N/A	Pass
	2	913.0	1.7815	N/A	Pass
	4	921.0	1.7939	N/A	Pass

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Test Graphs of DTS Bandwidth

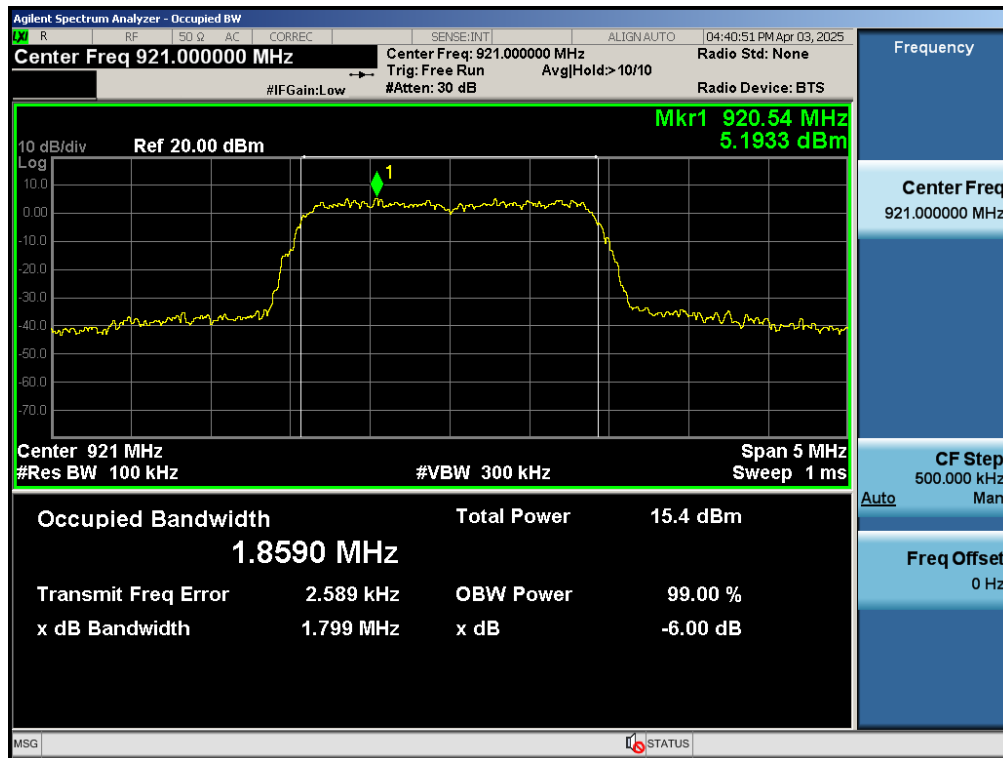


Test_Graph_802.11ah_ANT1_905_BW 2MHz_DTS Bandwidth



Test_Graph_802.11ah_ANT1_913_BW 2MHz_DTS Bandwidth

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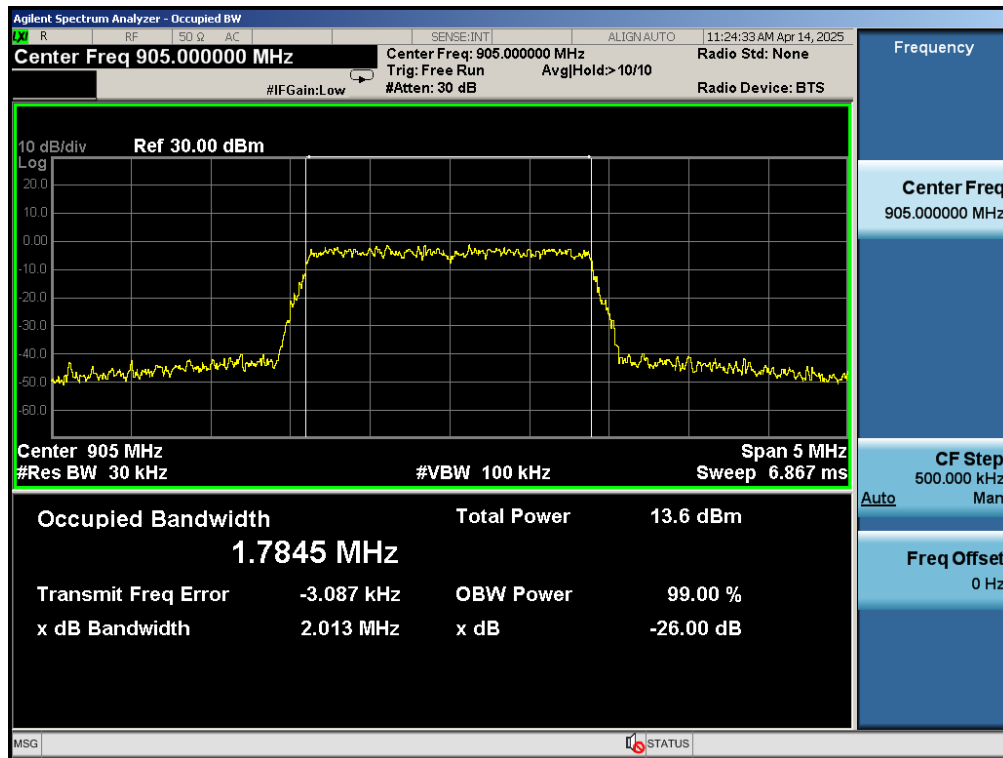


Test_Graph_802.11ah_ANT1_921_BW 2MHz_DTS Bandwidth

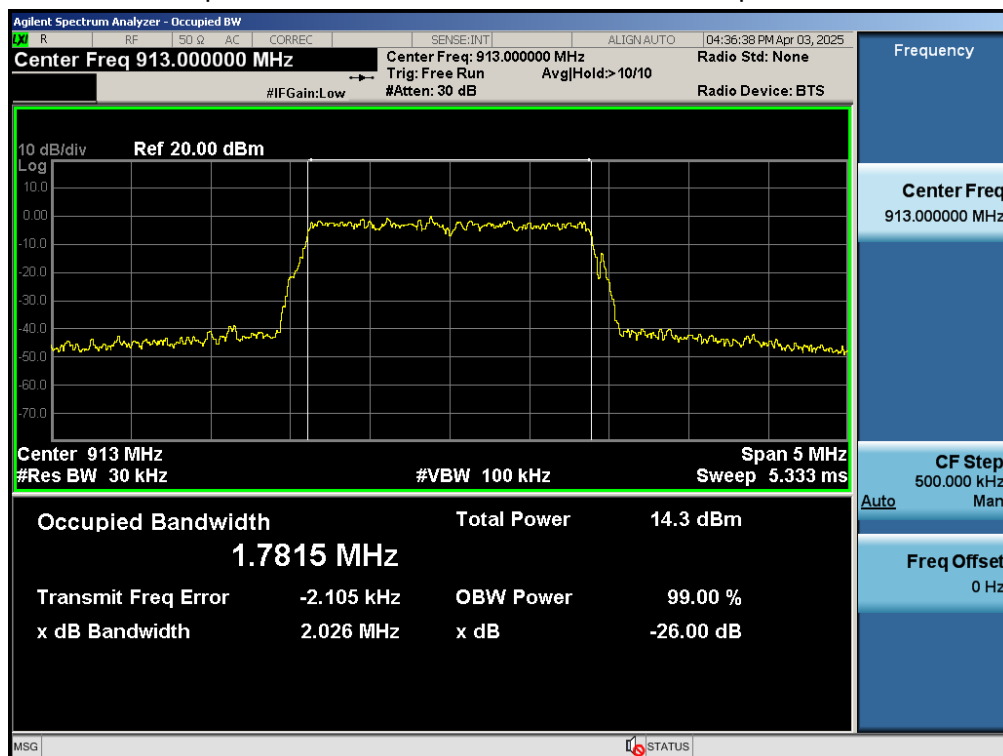
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Test Graphs of Occupied Bandwidth

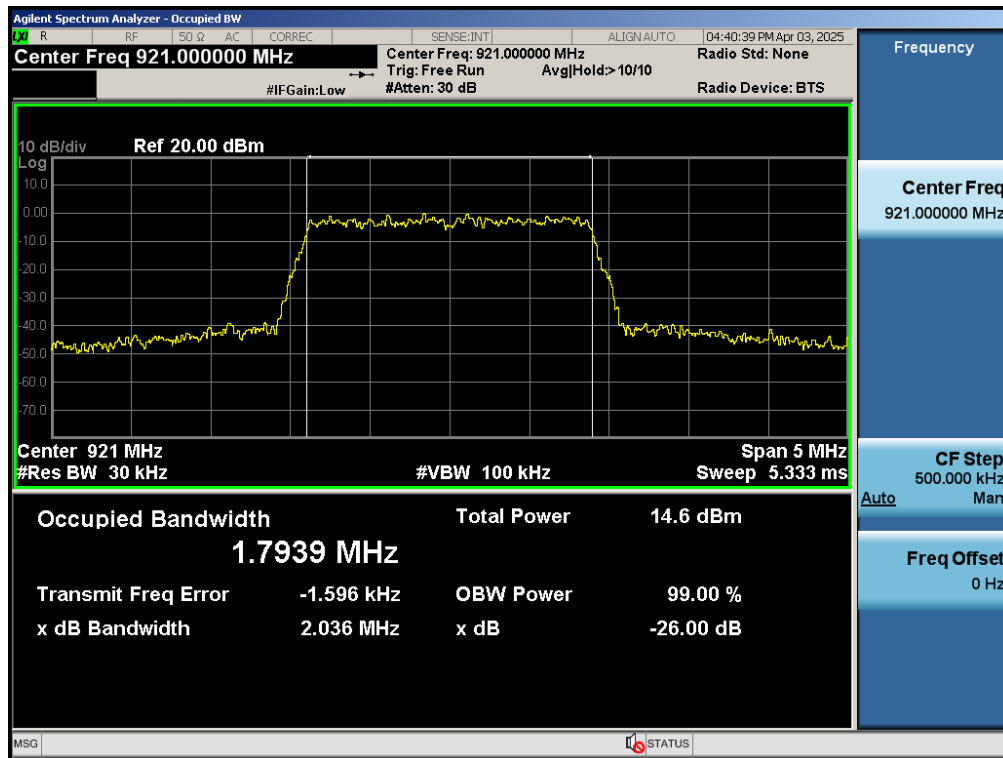


Test_Graph_802.11ah_ANT1_905_BW 2MHz_Occupied Bandwidth



Test_Graph_802.11ah_ANT1_913_BW 2MHz_Occupied Bandwidth

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Test_Graph_802.11ah_ANT1_921_BW 2MHz_Occupied Bandwidth

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9. Power Spectral Density Measurement

9.1 Provisions Applicable

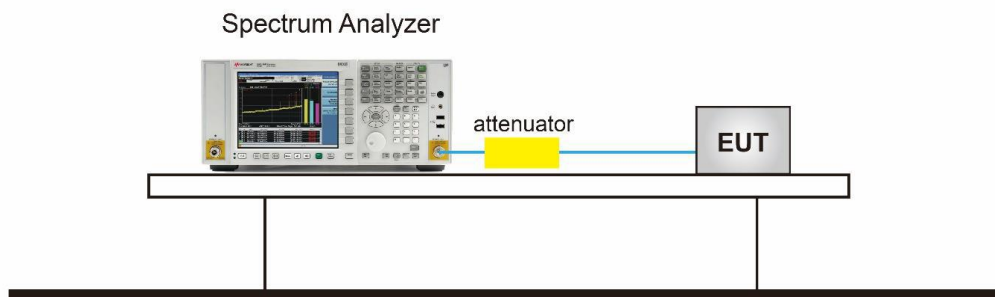
The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

9.2 Measurement Procedure

The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.

1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz in order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
4. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
5. Measure and record the results in the test report.
6. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

9.3 Measurement Setup (Block Diagram of Configuration)

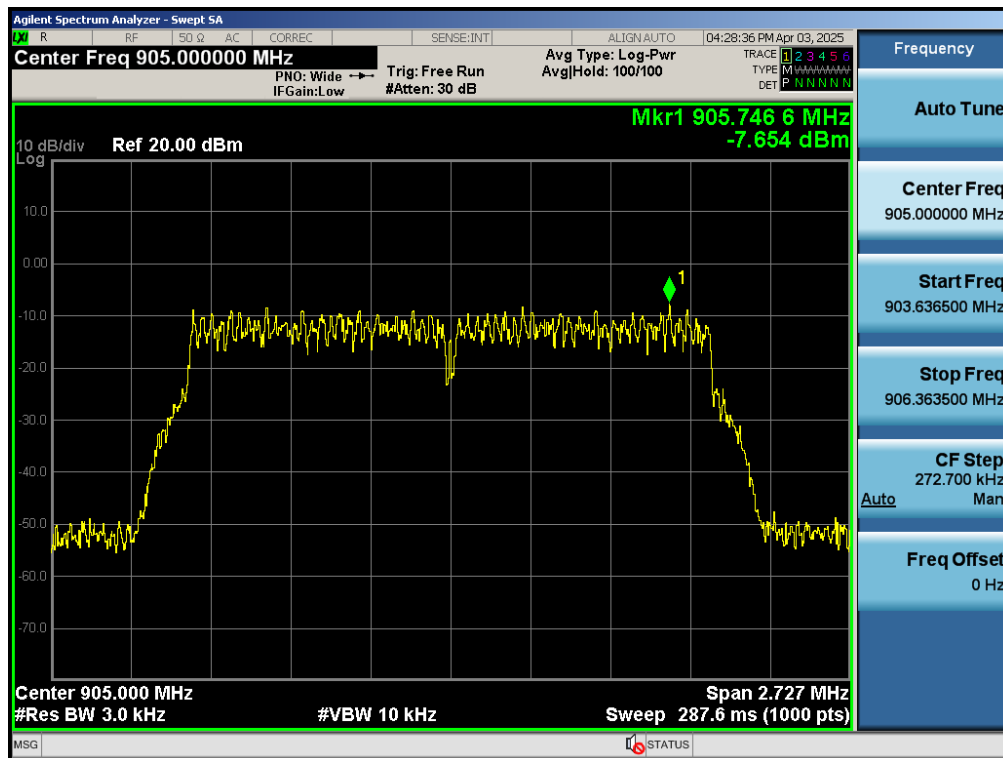


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9.4 Measurement Results

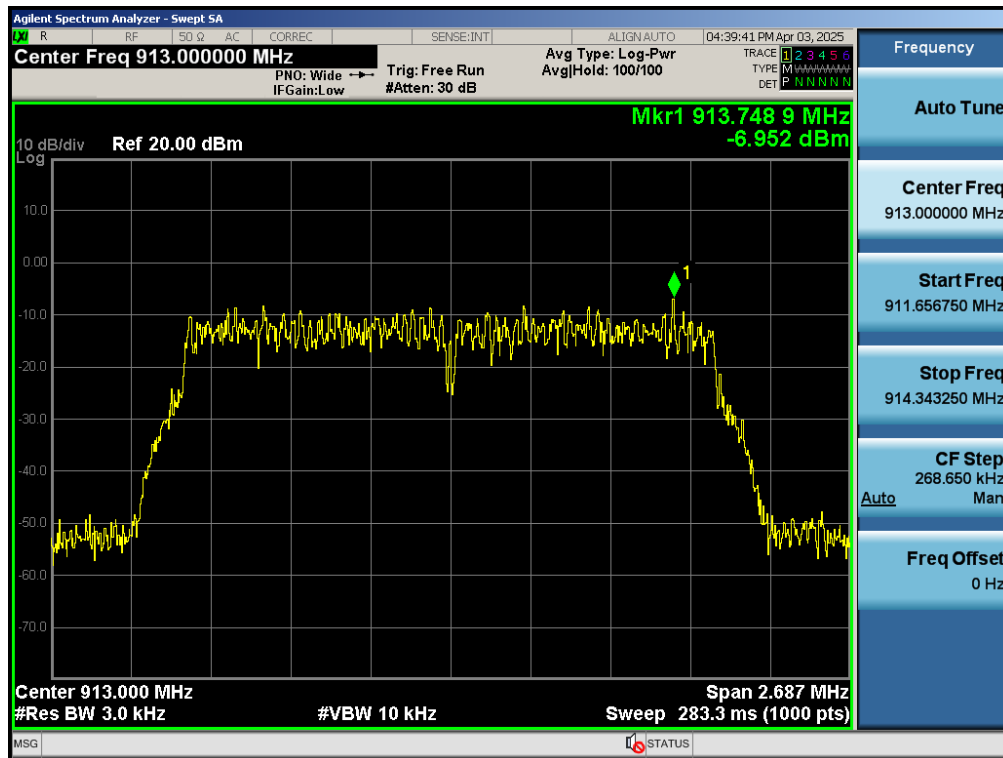
Test Data of Conducted Output Power Spectral Density					
Test Mode	Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11ah_BW 2MHz	01	905	-7.654	≤ 8	Pass
	02	913	-6.952	≤ 8	Pass
	04	921	-7.514	≤ 8	Pass

Test Graphs of Conducted Output Power Spectral Density

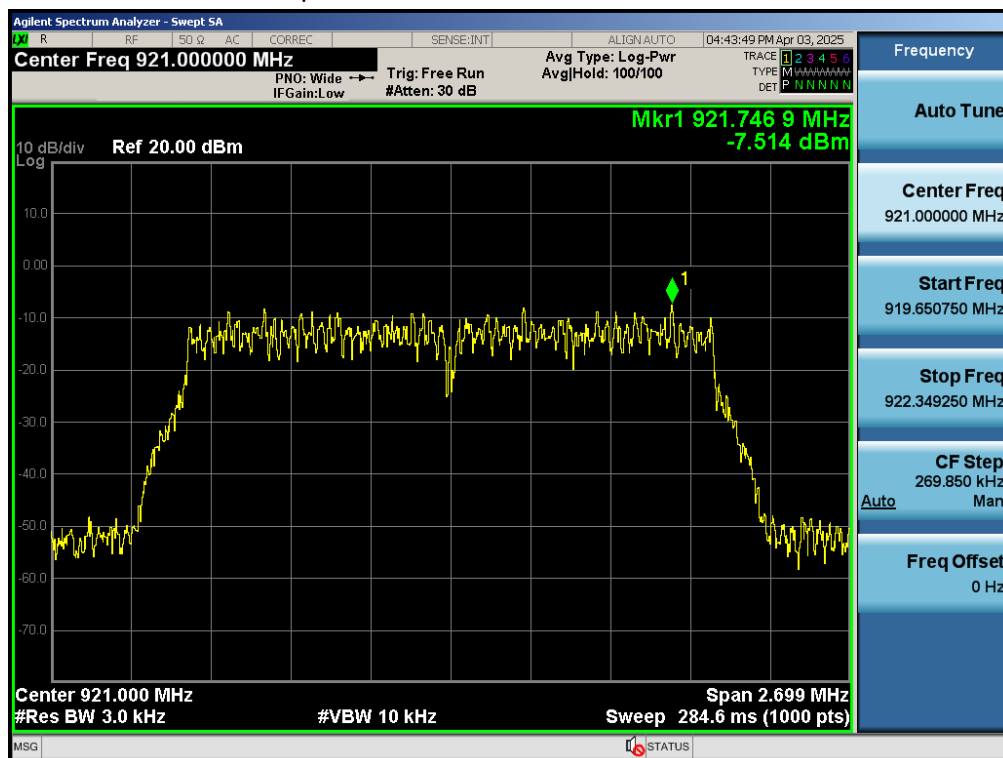


Test_Graph_802.11ah_ANT1_905_BW 2MHz_ PSD

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Test_Graph_802.11ah_ANT1_913_BW 2MHz_ PSD



Test_Graph_802.11ah_ANT1_921_BW 2MHz_ PSD

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10. Conducted Band Edge and Out-of-Band Emissions

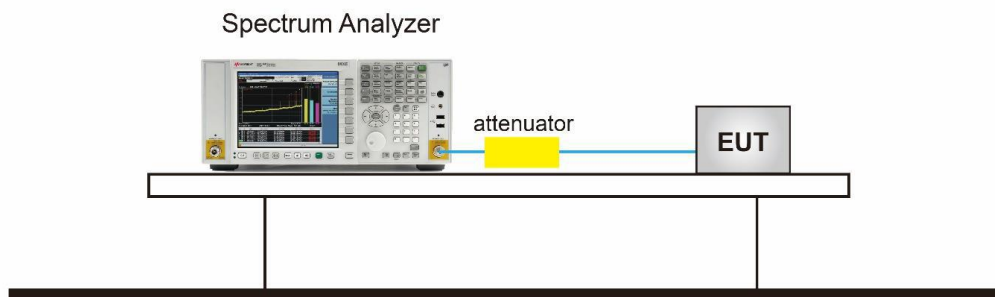
10.1 Provisions Applicable

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure.

10.2 Measurement Procedure

- Reference level measurement
 1. Set instrument center frequency to DTS channel center frequency
 2. Set the span to ≥ 1.5 times the DTS bandwidth
 3. Set the RBW = 100 kHz
 4. Set the VBW $\geq 3 \times$ RBW
 5. Detector = peak
 6. Sweep time = auto couple
 7. Trace mode = max hold
 8. Allow trace to fully stabilize
- Emission level measurement
 1. Set the center frequency and span to encompass frequency range to be measured
 2. RBW = 100kHz
 3. VBW = 300kHz
 4. Detector = Peak
 5. Trace mode = max hold
 6. Sweep time = auto couple
 7. The trace was allowed to stabilize

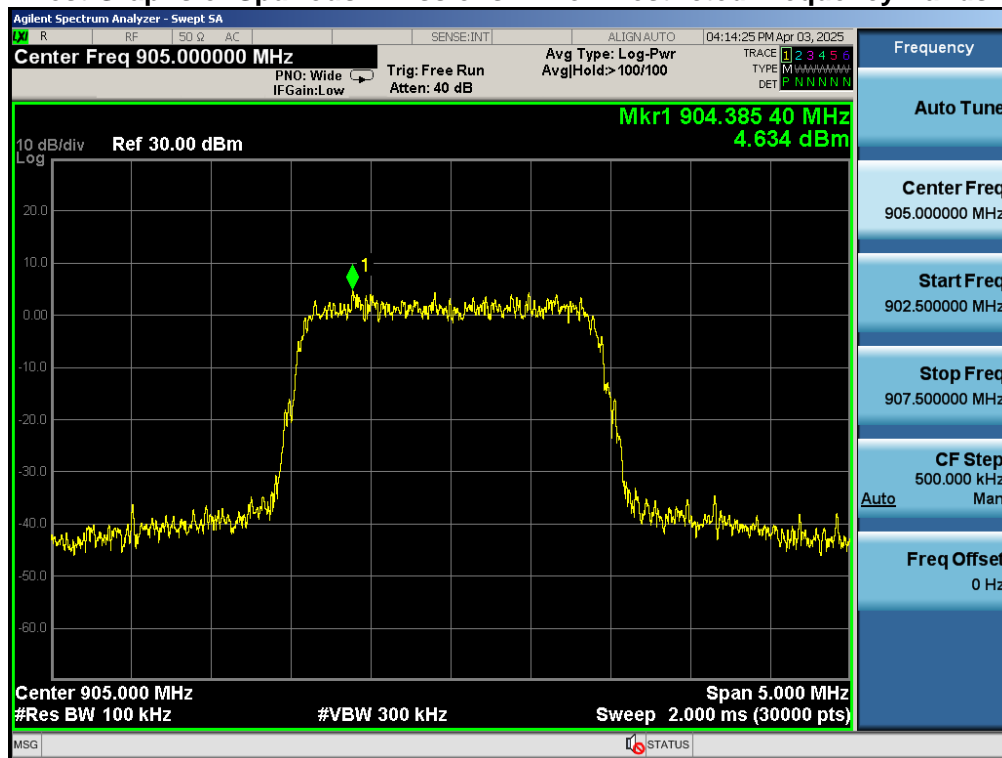
10.3 Measurement Setup (Block Diagram of Configuration)



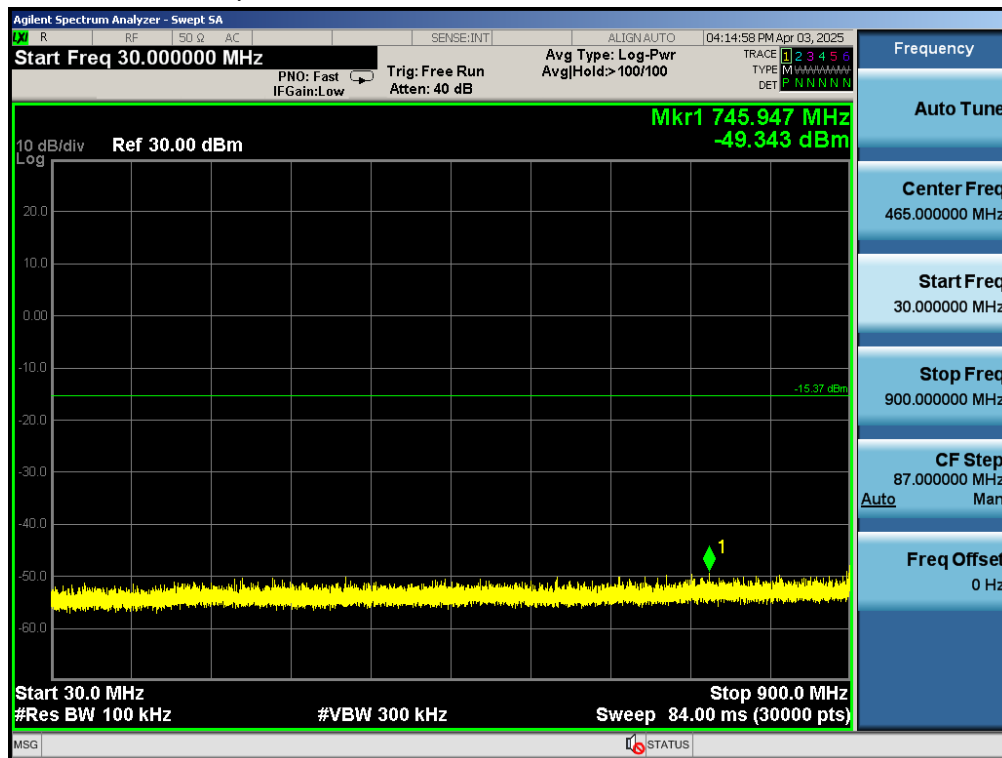
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10.4 Measurement Results

Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

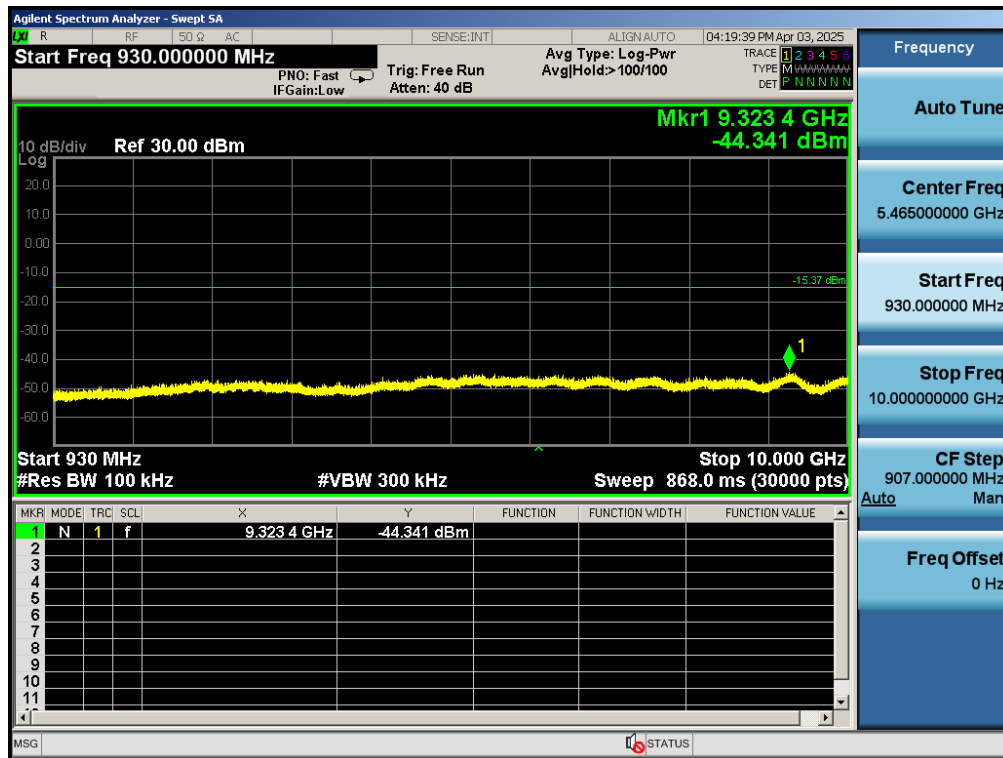


Test_Graph_802.11ah_ANT1_905_BW 2MHz_Reference level

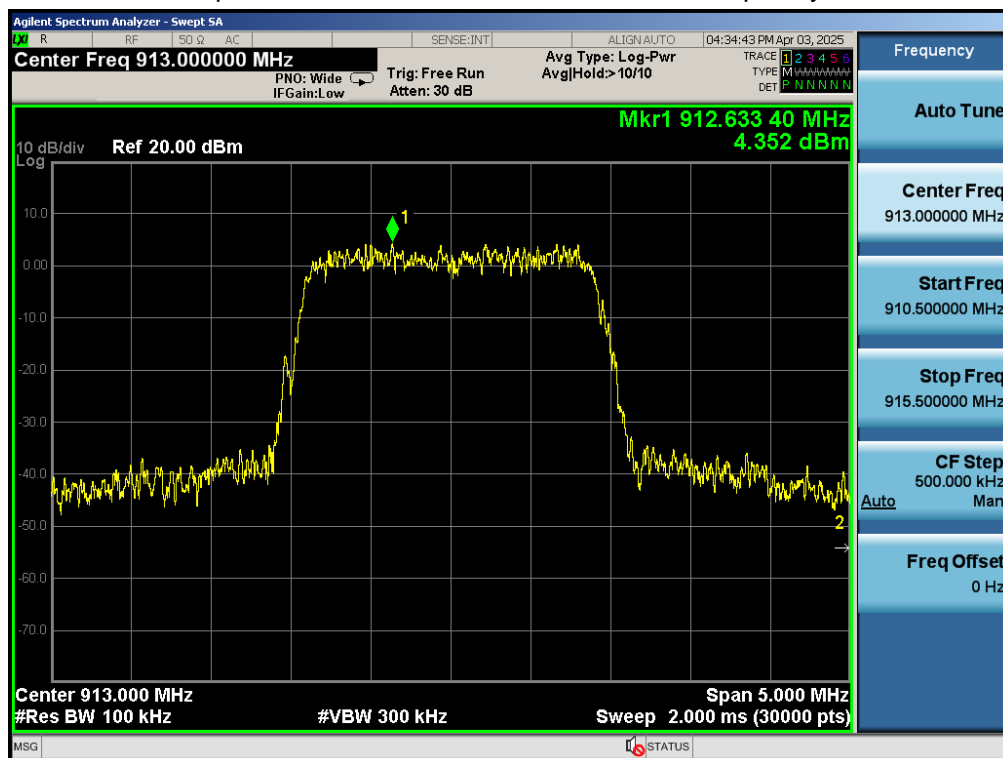


Test_Graph_802.11ah_ANT1_905_BW 2MHz_ Frequency Band 1

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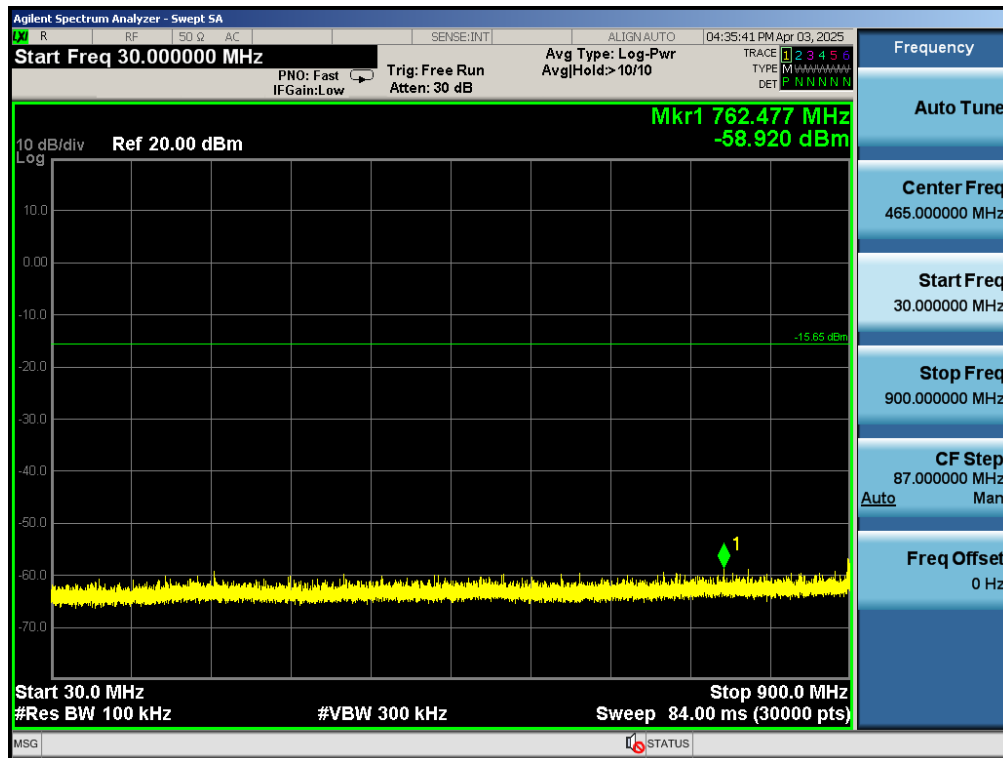


Test_Graph_802.11ah_ANT1_905_BW 2MHz_ Frequency Band 2

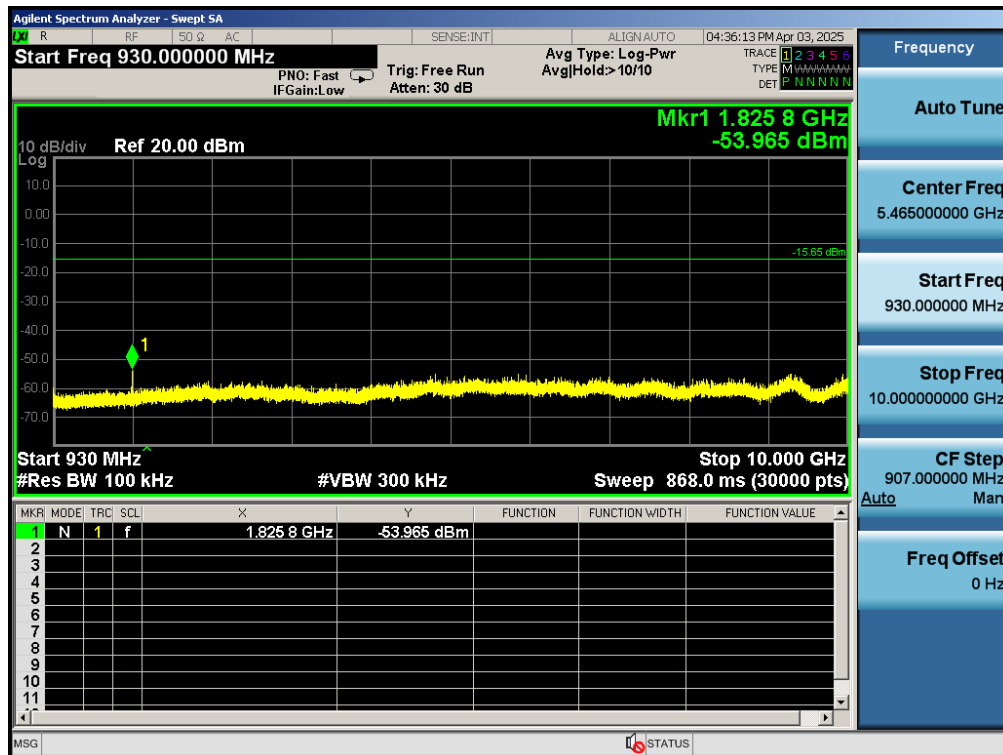


Test_Graph_802.11ah_ANT1_913_BW 2MHz_Reference level

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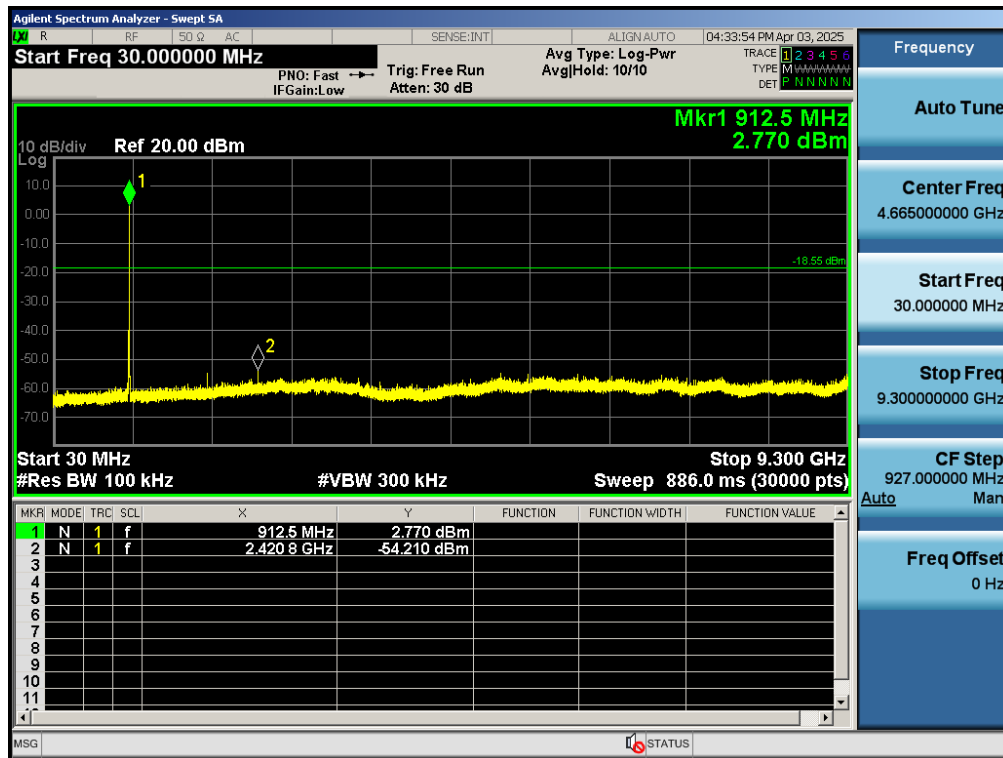


Test_Graph_802.11ah_ANT1_913_BW 2MHz_ Frequency Band 1

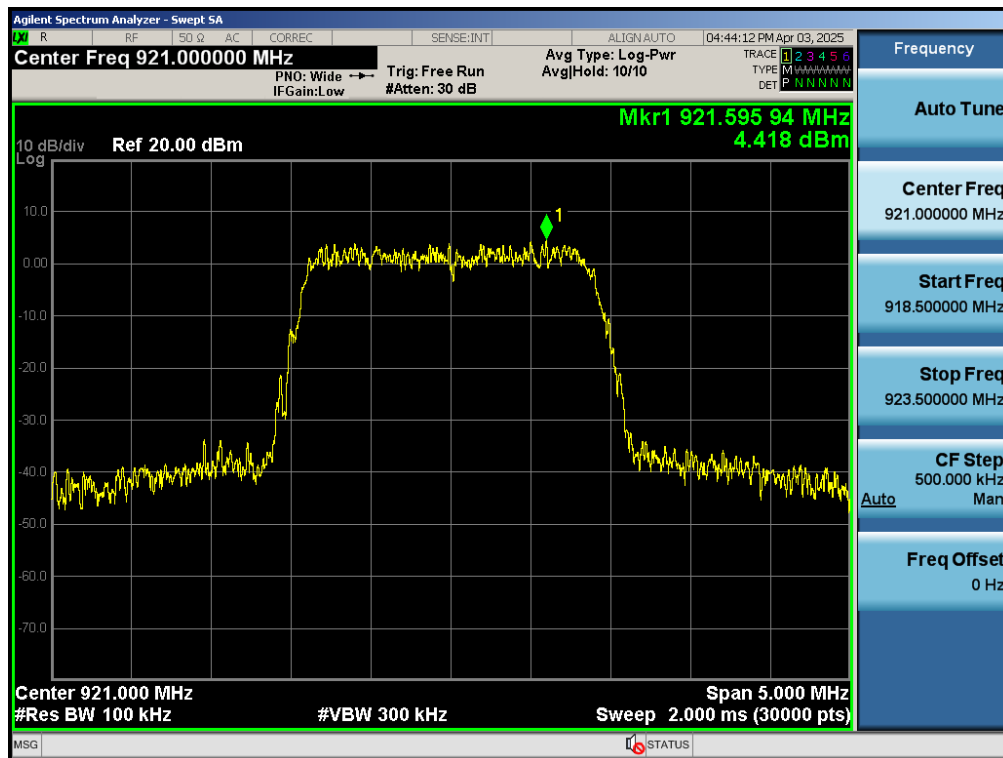


Test_Graph_802.11ah_ANT1_913_BW 2MHz_ Frequency Band 2

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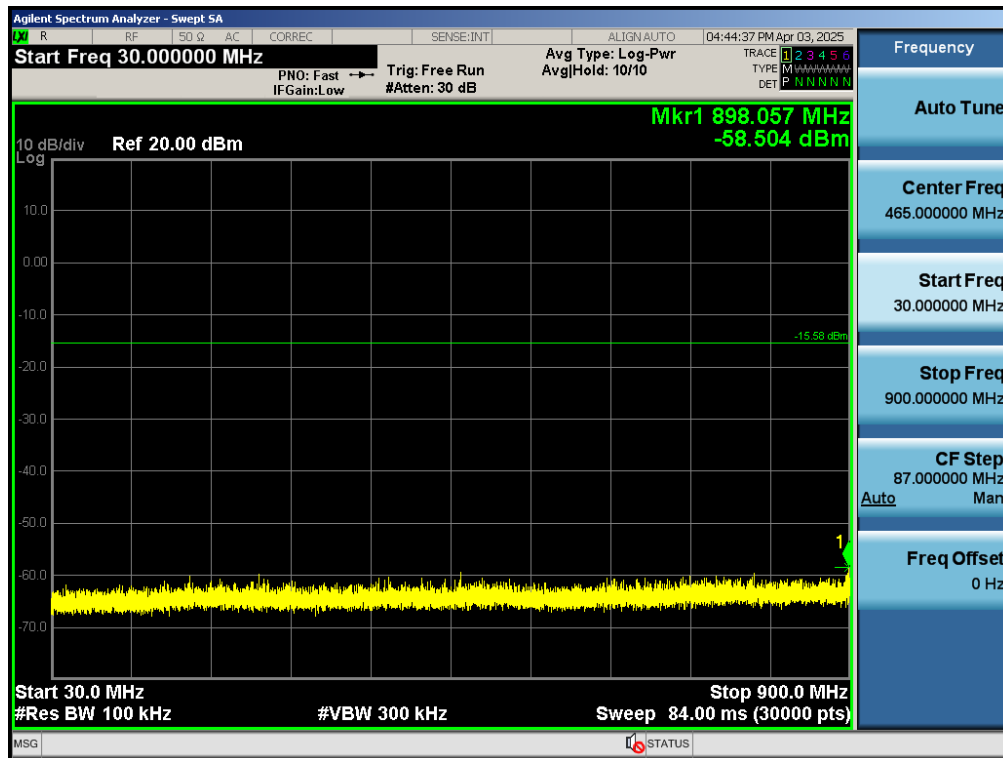


Test_Graph_802.11ah_ANT1_913_BW 2MHz_ Frequency Band 3

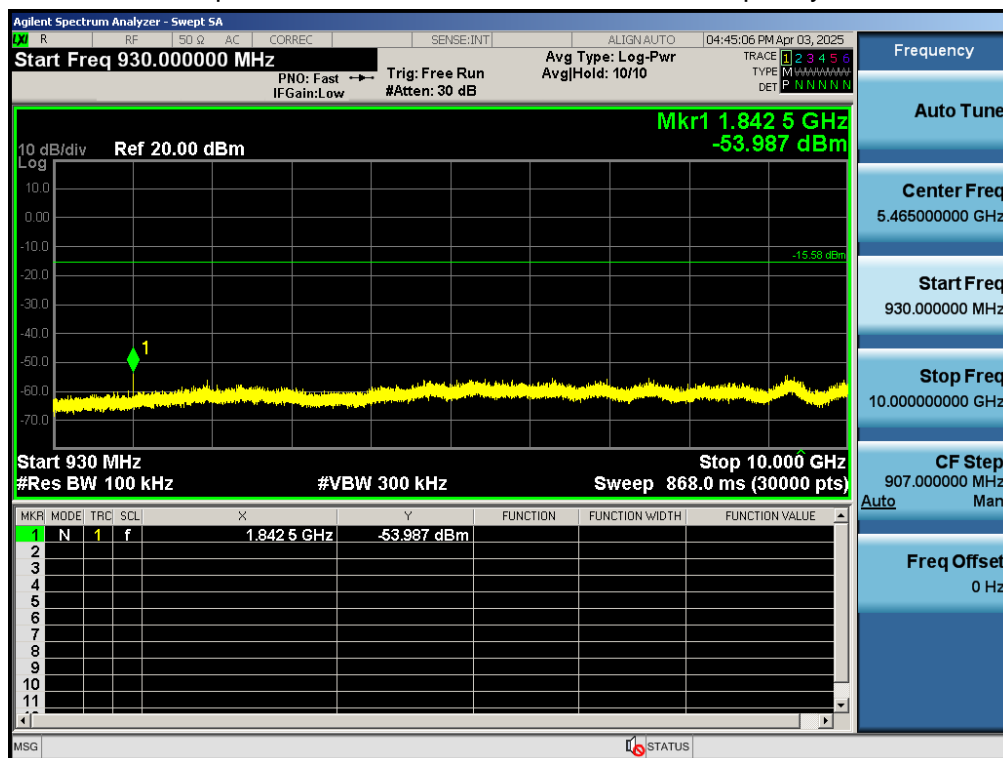


Test_Graph_802.11ah_ANT1_921_BW 2MHz_ Reference level

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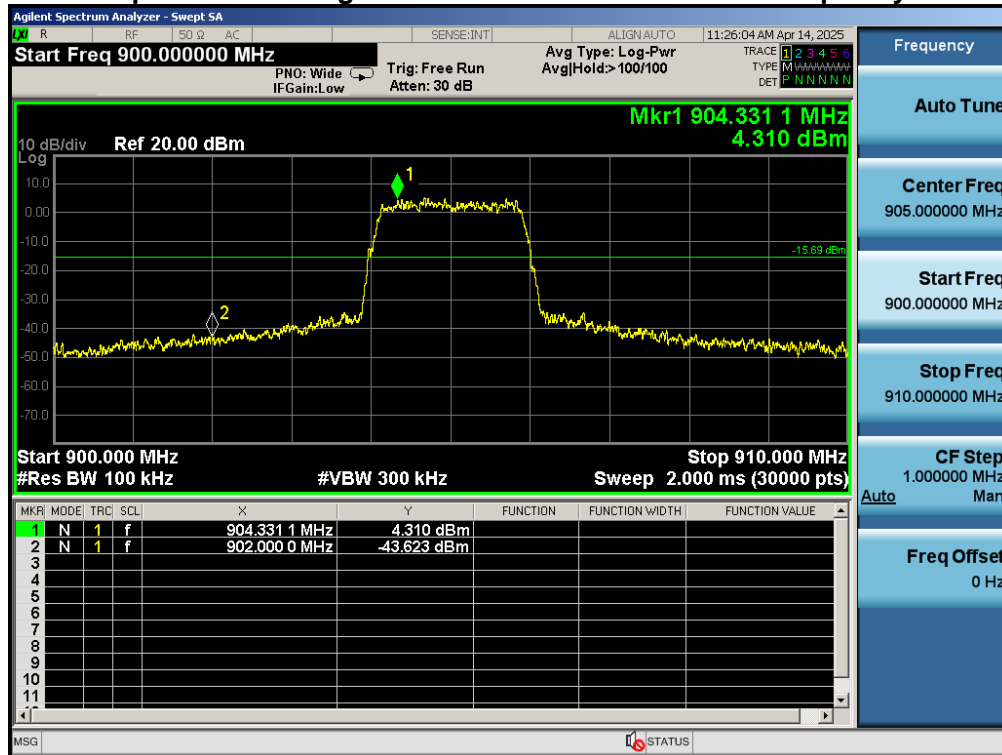
Test_Graph_802.11ah_ANT1_921_BW 2MHz_ Frequency Band 1



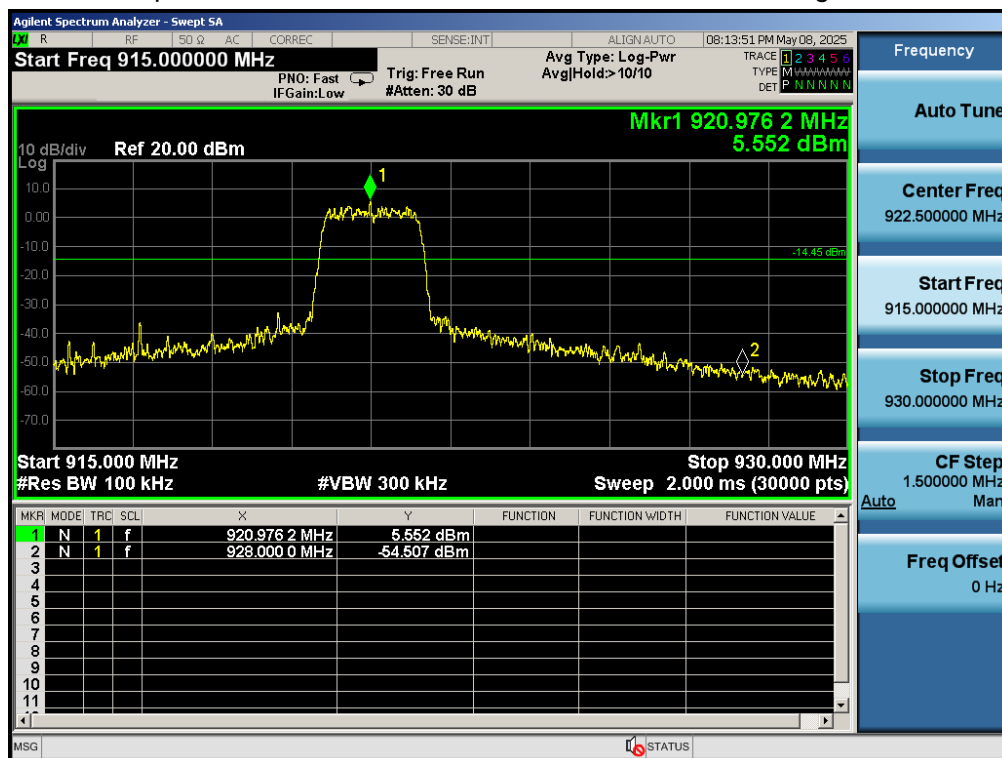
Test_Graph_802.11ah_ANT1_921_BW 2MHz_ Frequency Band 2

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Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



Test_Graph_802.11ah_ANT1_905_BW 2MHz_Lower Band Edge Emissions



Test_Graph_802.11ah_ANT1_921_BW 2MHz_ Higher Band Edge Emissions

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11. Radiated Spurious Emission

11.1 Measurement Limit

- FCC Part 15.209 Limit in the below table to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.2 Measurement Procedure

- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

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8. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
 9. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
 10. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
 11. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.
- The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP

- **Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as shown in the table above
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

- **Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

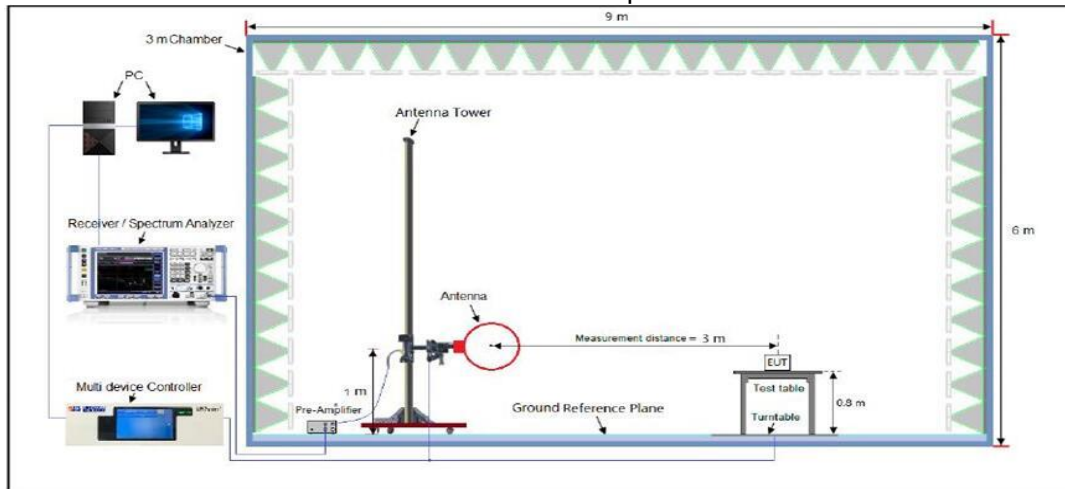
- **Average Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. $VBW \geq [3 \times RBW]$
4. Detector = Power averaging (rms)
5. Averaging type = power (i.e., rms)
6. Sweep time = auto
7. Perform a trace average of at least 100 traces.
8. The applicable correction factor is $[10 \cdot \log(1 / D)]$, where D is the duty cycle. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

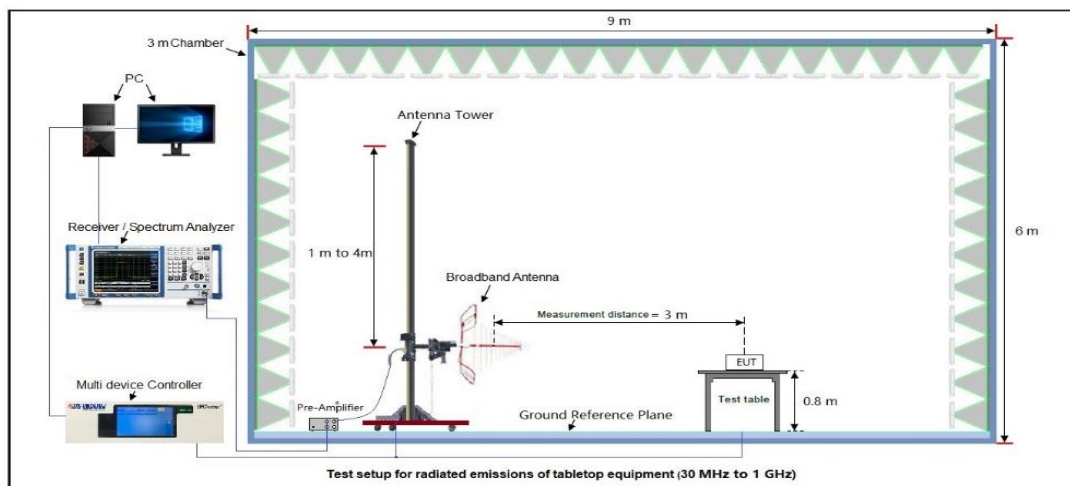
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11.3 Measurement Setup (Block Diagram of Configuration)

Radiated Emission Test Setup 9kHz-30MHz

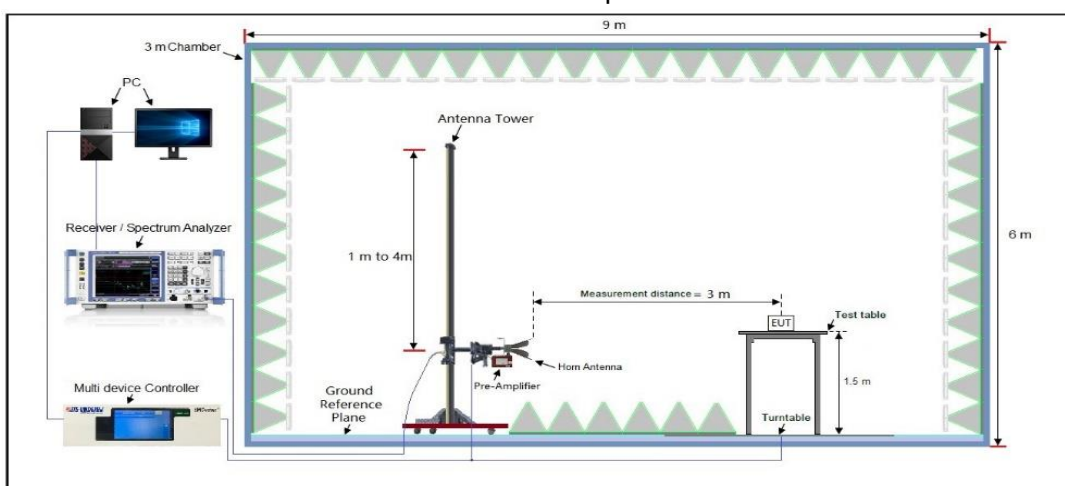


Radiated Emission Test Setup 30MHz-1000MHz



Test setup for radiated emissions of tabletop equipment (30 MHz to 1 GHz)

Radiated Emission Test Setup Above 1000MHz



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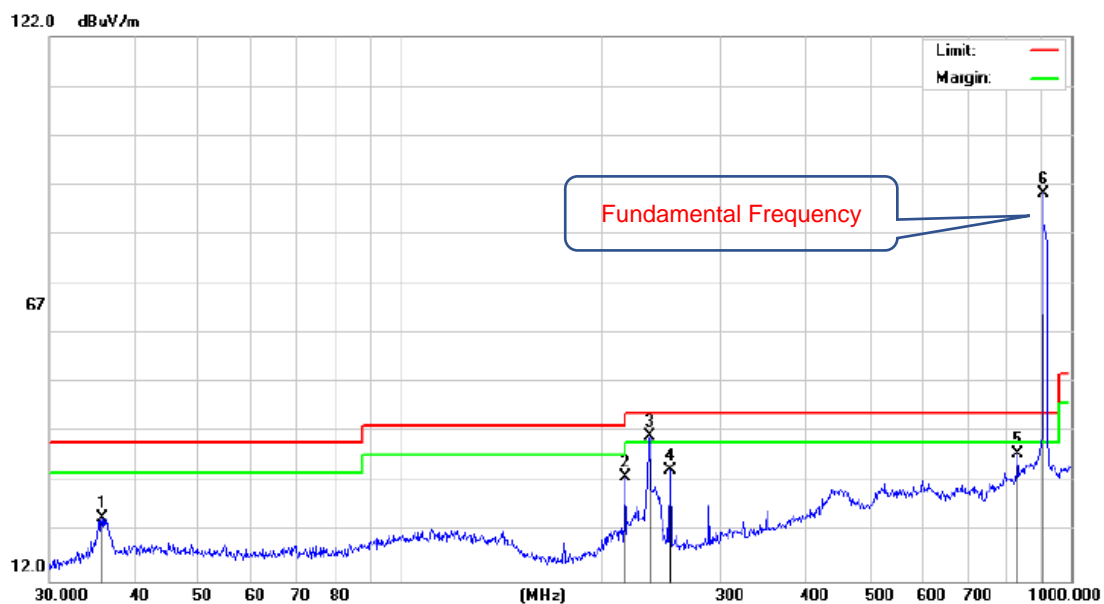
11.4 Measurement Result

Radiated Emission Below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

Radiated Emission Test Results at 30MHz-1GHz

EUT Name	Jartoo Baby Monitor	Model Name	JT-VBM003
Temperature	23.7° C	Relative Humidity	51.5%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Horizontal

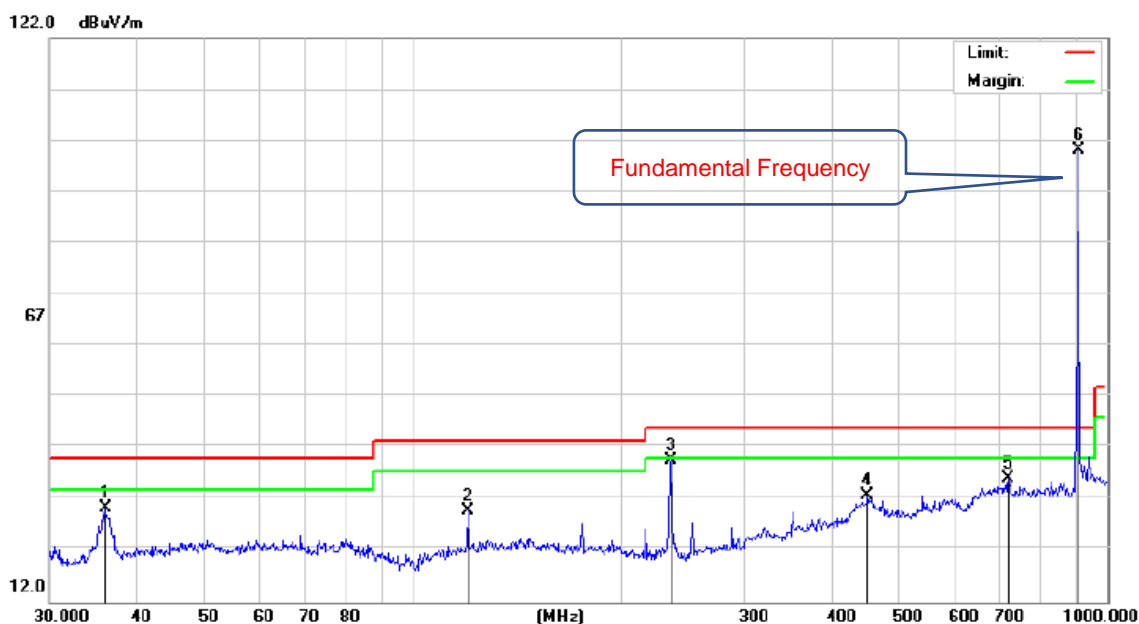


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		35.8746	12.79	12.13	24.92	40.00	-15.08	peak
2		216.0240	18.52	14.42	32.94	46.00	-13.06	peak
3	!	234.9909	26.08	15.15	41.23	46.00	-4.77	peak
4		252.0627	19.47	15.04	34.51	46.00	-11.49	peak
5		830.4002	10.27	27.32	37.59	46.00	-8.41	peak
6	*	906.4824	59.33	30.89	90.22	46.00	44.22	peak

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Radiated Emission Test Results at 30MHz-1GHz

EUT Name	Jartoo Baby Monitor	Model Name	JT-VBM003
Temperature	23.7° C	Relative Humidity	51.5%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		36.0007	14.62	15.58	30.20	40.00	-9.80	peak
2		119.8556	12.08	17.67	29.75	43.50	-13.75	peak
3		234.9909	23.36	16.27	39.63	46.00	-6.37	peak
4		451.1350	7.18	25.60	32.78	46.00	-13.22	peak
5		719.1995	7.40	28.77	36.17	46.00	-9.83	peak
6	*	906.4824	71.70	28.37	100.07	46.00	54.07	peak

RESULT: PASS

Note:

- Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- All test modes had been pre-tested. The mode 3 is the worst case and recorded in the report.

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Jartoo Baby Monitor	Model Name	JT-VBM003
Temperature	20.3° C	Relative Humidity	50.8%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 1	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1810.000	51.23	0.08	51.31	74.00	-22.69	peak
1810.000	43.94	0.08	44.02	54.00	-9.98	AVG
2715.000	50.58	2.21	52.79	74.00	-21.21	peak
2715.000	40.26	2.21	42.47	54.00	-11.53	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT Name	Jartoo Baby Monitor	Model Name	JT-VBM003
Temperature	20.3° C	Relative Humidity	50.8%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 1	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1810.000	49.81	0.08	49.89	74.00	-24.11	peak
1810.000	41.26	0.08	41.34	54.00	-12.66	AVG
2715.000	51.49	2.21	53.7	74.00	-20.3	peak
2715.000	40.57	2.21	42.78	54.00	-11.22	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Jartoo Baby Monitor	Model Name	JT-VBM003
Temperature	20.3° C	Relative Humidity	50.8%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 2	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1826.000	51.53	0.14	51.67	74.00	-22.33	peak
1826.000	42.36	0.14	42.50	54.00	-11.50	AVG
2739.000	49.98	2.36	52.34	74.00	-21.66	peak
2739.000	40.21	2.36	42.57	54.00	-11.43	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Jartoo Baby Monitor	Model Name	JT-VBM003
Temperature	20.3° C	Relative Humidity	50.8%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 2	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1826.000	50.62	0.14	50.76	74.00	-23.24	peak
1826.000	41.28	0.14	41.42	54.00	-12.58	AVG
2739.000	49.46	2.36	51.82	74.00	-22.18	peak
2739.000	41.37	2.36	43.73	54.00	-10.27	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	Jartoo Baby Monitor	Model Name	JT-VBM003
Temperature	20.3° C	Relative Humidity	50.8%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1842.000	49.62	0.22	49.84	74.00	-24.16	peak
1842.000	41.42	0.22	41.64	54.00	-12.36	AVG
2763.000	49.12	2.64	51.76	74.00	-22.24	peak
2763.000	39.57	2.64	42.21	54.00	-11.79	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Jartoo Baby Monitor	Model Name	JT-VBM003
Temperature	20.3° C	Relative Humidity	50.8%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1842.000	49.94	0.22	50.16	74.00	-23.84	peak
1842.000	42.74	0.22	42.96	54.00	-11.04	AVG
2763.000	48.69	2.64	51.33	74.00	-22.67	peak
2763.000	40.38	2.64	43.02	54.00	-10.98	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

Note:

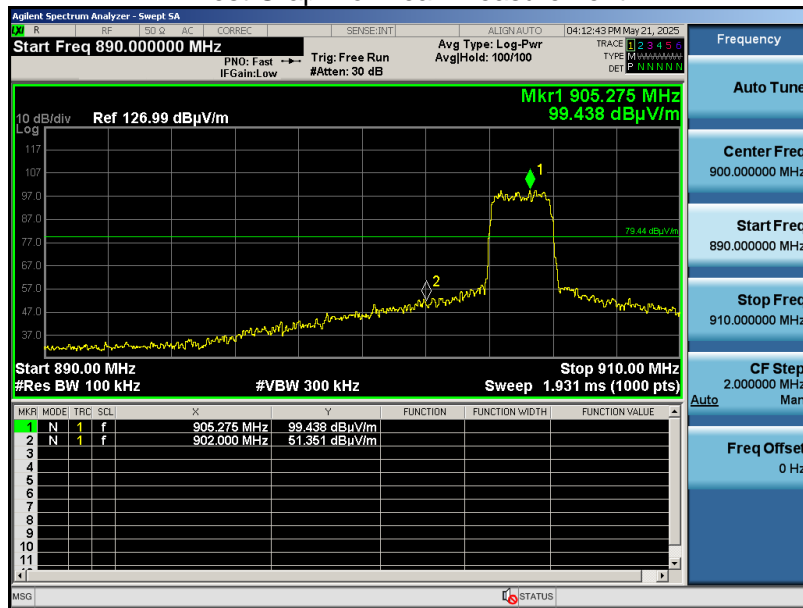
1. The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
2. Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin =Emission Level-Limit.
3. The “Factor” value can be calculated automatically by software of measurement system.

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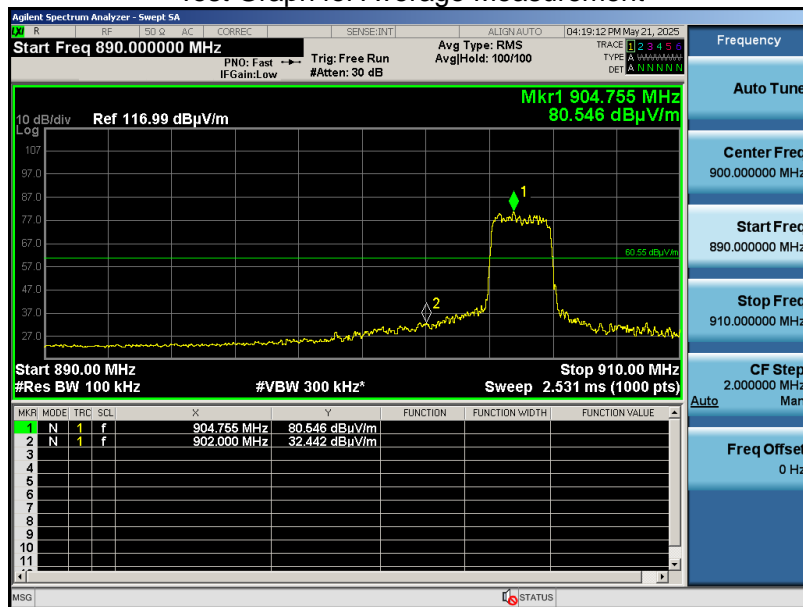
Band Edge Emission Test Results for Restricted Bands

EUT Name	Jartoo Baby Monitor	Model Name	JT-VBM003
Temperature	20.3° C	Relative Humidity	50.8%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 1	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

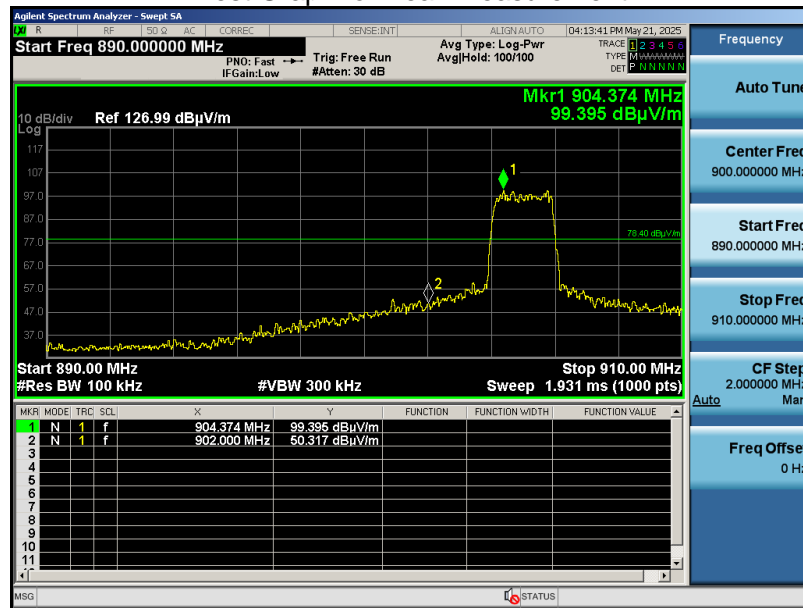
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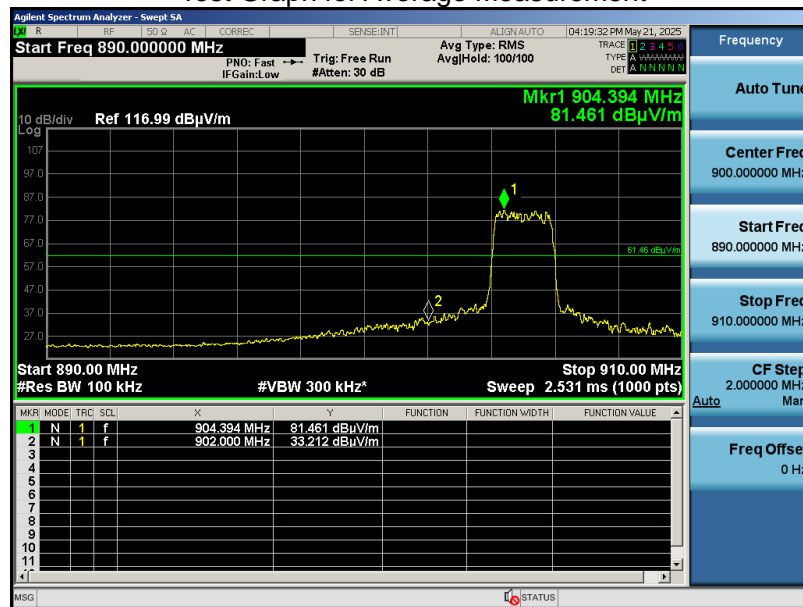
Band Edge Emission Test Results for Restricted Bands

EUT Name	Jartoo Baby Monitor	Model Name	JT-VBM003
Temperature	20.3° C	Relative Humidity	50.8%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 1	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

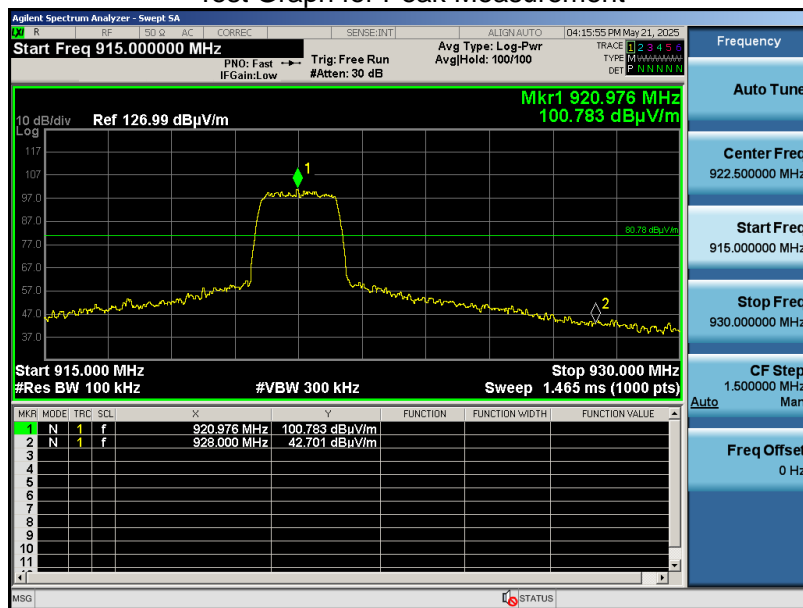
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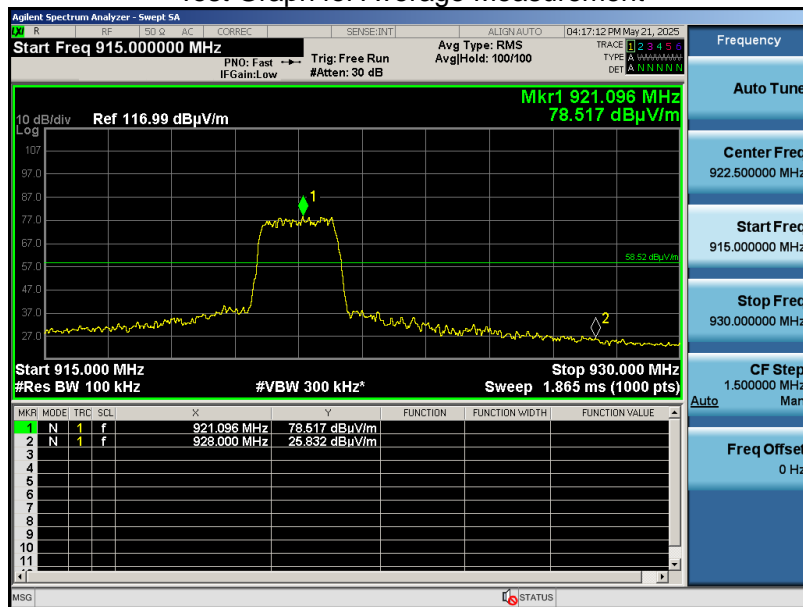
Band Edge Emission Test Results for Restricted Bands

EUT Name	Jartoo Baby Monitor	Model Name	JT-VBM003
Temperature	20.3° C	Relative Humidity	50.8%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

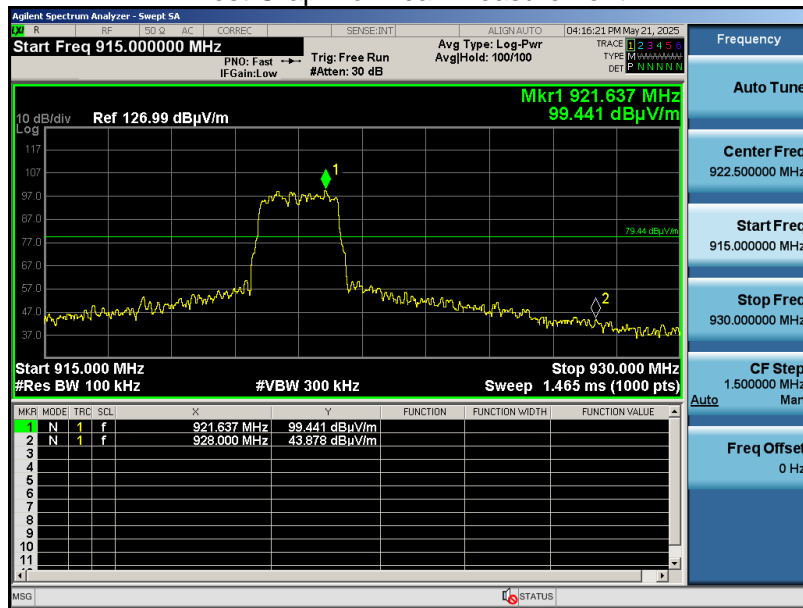
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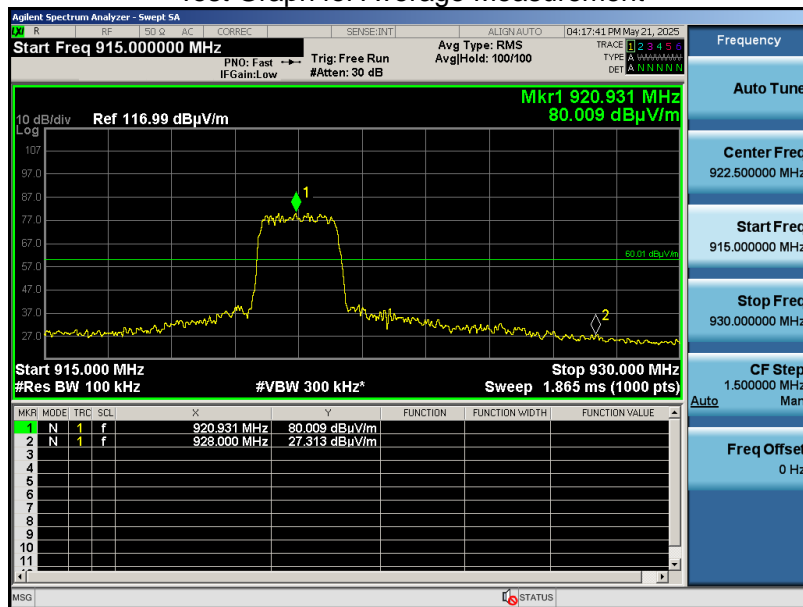
Band Edge Emission Test Results for Restricted Bands

EUT Name	Jartoo Baby Monitor	Model Name	JT-VBM003
Temperature	20.3° C	Relative Humidity	50.8%
Pressure	960hPa	Test Voltage	DC 5V by adapter
Test Mode	Mode 3	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

Note: The factor had been edited in the “Input Correction” of the Spectrum Analyzer.

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12. AC Power Line Conducted Emission Test

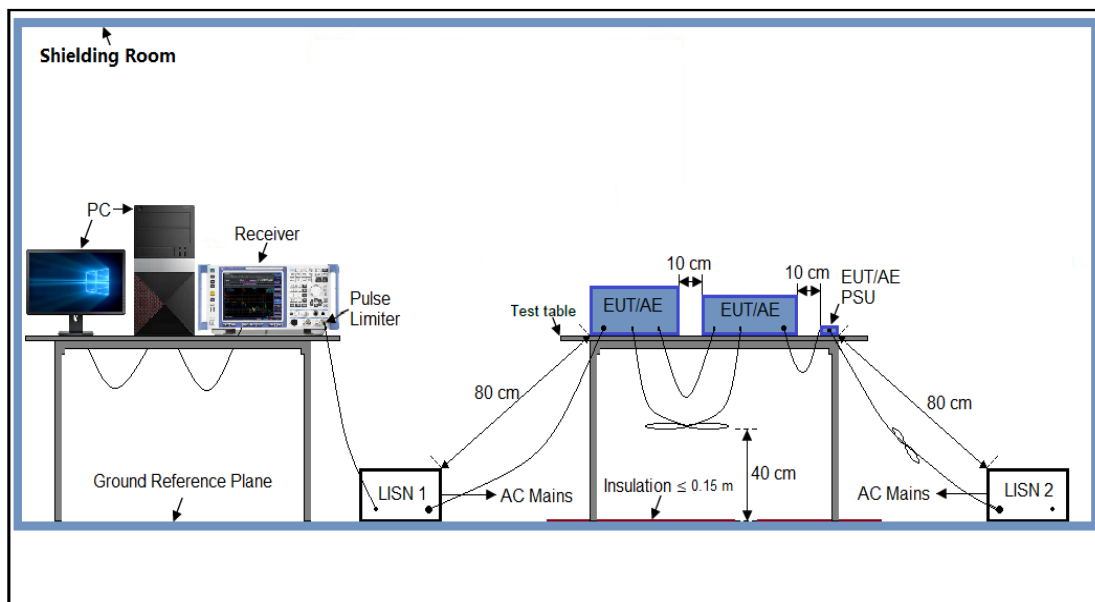
12.1 Measurement Limit

Frequency	Maximum RF Line Voltage	
	Q.P. (dB μ V)	Average (dB μ V)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

12.2 Measurement Setup (Block Diagram of Configuration)



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12.3 Preliminary Procedure of Line Conducted Emission Test

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

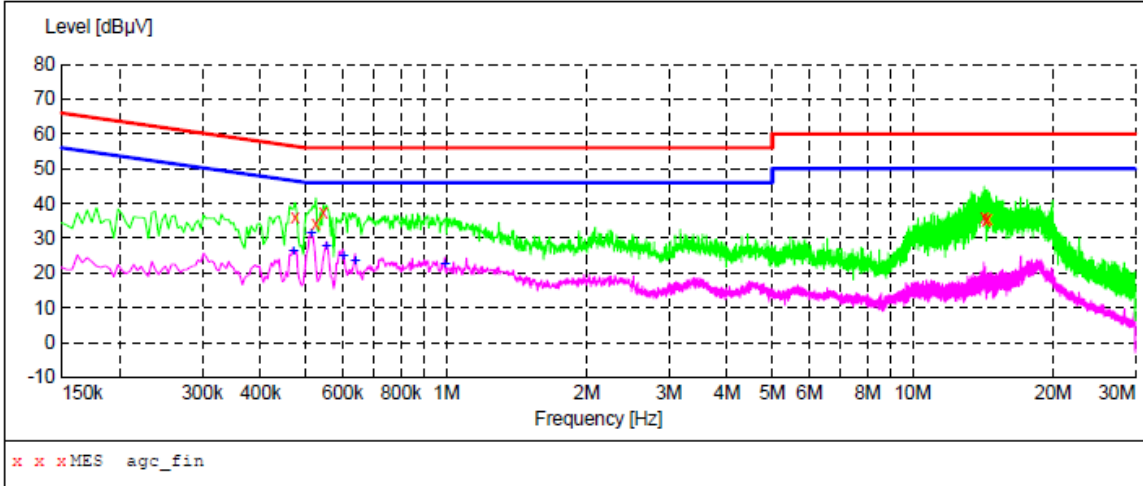
12.4 Final Procedure of Line Conducted Emission Test

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

12.5 Measurement Results

AC Power Line Conducted Emission Test

Test Mode	Mode 1	LISN Line	Neutral Side
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MEASUREMENT RESULT: "agc_fin"

2025/4/7 18:47

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.474000	36.00	6.1	56	20.4	QP	N
0.526000	34.30	6.2	56	21.7	QP	N
0.546000	37.20	6.2	56	18.8	QP	N
14.246000	36.00	6.8	60	24.0	QP	N
14.362000	35.20	6.8	60	24.8	QP	N
14.478000	35.60	6.8	60	24.4	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/4/7 18:47

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.470000	26.00	6.1	47	20.5	AV	N
0.514000	31.10	6.2	46	14.9	AV	N
0.554000	27.40	6.2	46	18.6	AV	N
0.602000	25.00	6.2	46	21.0	AV	N
0.638000	23.20	6.2	46	22.8	AV	N
0.994000	22.20	6.2	46	23.8	AV	N

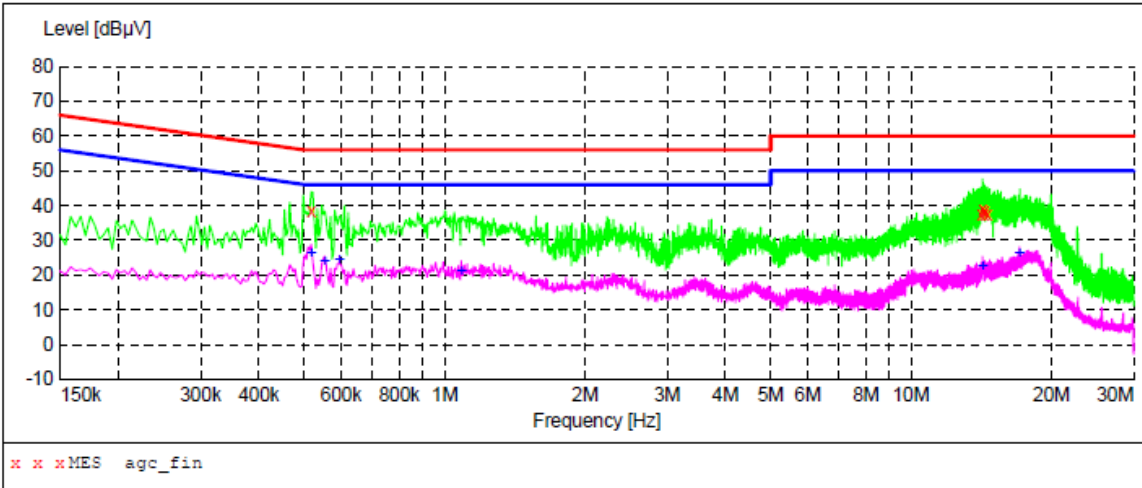
RESULT: PASS

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AC Power Line Conducted Emission Test

Test Mode	Mode 1	LISN Line	Hot Side
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MEASUREMENT RESULT: "agc_fin"

2025/4/7 18:50

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.518000	38.50	6.2	56	17.5	QP	L1
14.134000	37.60	6.8	60	22.4	QP	L1
14.230000	38.90	6.8	60	21.1	QP	L1
14.346000	37.20	6.8	60	22.8	QP	L1
14.402000	38.40	6.8	60	21.6	QP	L1
14.578000	37.40	6.8	60	22.6	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2025/4/7 18:50

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.518000	26.30	6.2	46	19.7	AV	L1
0.554000	24.00	6.2	46	22.0	AV	L1
0.594000	24.50	6.2	46	21.5	AV	L1
1.086000	21.00	6.2	46	25.0	AV	L1
14.230000	22.40	6.8	50	27.6	AV	L1
17.082000	26.30	7.0	50	23.7	AV	L1

RESULT: PASS

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC16204250301AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC16204250301AP02

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

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