



Test Report

Date : 2026-04-27

No. : HMD26040001

Page 1 of 83

Applicant : FUNPAD Technology Co., Ltd
Room 202, Building 5, Ruichuang Technology Center, No.33 Shugang Road, Guicheng Street, Nanhai District, Foshan, China

Supplier / Manufacturer : FUNPAD Technology Co., Ltd
Room 202, Building 5, Ruichuang Technology Center, No.33 Shugang Road, Guicheng Street, Nanhai District, Foshan, China

Description of Sample(s) : Submitted sample(s) said to be
Product: Smart POS Terminal/self-service checkout machine
Brand Name: FUNPAD
Model No.: LP1
FCC ID: 2BVPQ-FUNPAD

Date Samples Received : 2026-03-04

Date Tested : 2026-03-10 to 2026-03-18

Investigation Requested : Perform Electro Magnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.10:2020 for FCC Certification.

Conclusions : The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

Remarks : WIFI (802.11b/g/n20/n40)
For additional model(s) details, please see page 3.


Dr.CHAN Kwok Hung, Brian
Authorized Signatory

The Hong Kong Standards and Testing Centre Limited

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 2 of 83

CONTENT:

Cover	Page 1 of 83
Content	Page 2 of 83
<u>1.0 General Details</u>	
1.1 Test Laboratory	Page 3 of 83
1.2 Equipment Under Test [EUT] Description of EUT operation	Page 3 of 83
1.3 Antenna Details	Page 3 of 83
1.4 Date of Order	Page 4 of 83
1.5 Submitted Sample(s)	Page 4 of 83
1.6 Test Duration	Page 4 of 83
1.7 Country of Origin	Page 4 of 83
<u>2.0 Technical Details</u>	
2.1 Investigations Requested	Page 5-6 of 83
2.2 Test Standards and Results Summary	Page 7 of 83
<u>3.0 Test Results</u>	
3.1 Emission	Page 8-71 of 83
<u>Appendix A</u>	
List of Measurement Equipment	Page 72 of 83
<u>Appendix B</u>	
Photograph(s) of Product	Page 73-83 of 83

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 3 of 83

1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.
EMC Laboratory
10 Dai Wang Street, Taipo Industrial Estate, New Territories, Hong Kong
Telephone: 852 2666 1888
Fax: 852 2664 4353

1.2 Equipment Under Test [EUT]

Description of Sample(s)

Product: Smart POS Terminal/self-service checkout machine
Manufacturer: FUNPAD Technology Co., Ltd
Room 202, Building 5, Ruichuang Technology Center, No.33 Shugang Road, Guicheng Street, Nanhai District, Foshan, China
Brand Name: FUNPAD
Model Number: LP1
Additional Model Number: FP-LP1, FP-LP3, FP-LP5, FP-LP6, FP-LP7, FP-LP8, FP-LP9, FP-LP10, LP3, LP5, LP6, LP7, LP8, LP9, LP10
Model differences: All models have the same circuit principle, only the product name and model are applicable to different customers and the color difference. Therefore, only model LP2 completed all test items.
Note: Since the applicant was not able to provide the sample of additional Model, above mentioned additional Model(s) has not been tested, but only based on the guarantee letter provided by the applicant. Test Report issuer takes no responsibility for any mistakes and the problems of product consistency caused by inaccurate and/or invalid information submitted by the applicant. The applicant will take the responsibility of all discrepancy and risk.
Rating: DC 12V by adapter
Brand: GVE, Model:GM39-120300-1A, Input: 100-240a.c. 50/60, 1.5A
Output: 12Vd.c. 3.0A, 36W

1.2.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Smart POS Terminal/self-service checkout machine. The transmission signal is digital modulated with channel frequency range 2412-2462MHz.

1.3 Antenna Details

Antenna Type: built-in FPC antenna
Antenna Gain: 2.0dBi

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 4 of 83

- 1.4 Date of Order**
2026-03-04
- 1.5 Submitted Sample(s):**
1 Sample
- 1.6 Test Duration**
2026-03-10 to 2026-03-18
- 1.7 Country of Origin**
China

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 5 of 83

2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 Regulations and ANSI C63.10:2020 for FCC Certification.
According FCC KDB 558074 DTS Measurement Guidance, Duty cycle $\geq 98\%$.
The test mode sample is provided by manufacturer.

2.1.0 Operating conditions for the EUT

The sample went into test mode handled by the manufacturer using the software.

```
C:\Windows\System32\cmd.exe

D:\funpad\3576\3576\scripy-win64-v2.3.1\scripy-win64-v2.3.1>adb root
adb is already running as root

D:\funpad\3576\3576\scripy-win64-v2.3.1\scripy-win64-v2.3.1>adb remount
AVB verification is disabled, disabling verify state may have no effect
Remounted /system as RW
Remounted /vendor as RW
Remounted /odm as RW
Remounted /system_dtkm as RW
Remounted /system_ext as RW
Remounted /vendor_dtkm as RW
Remounted /odm_dtkm as RW
Remounted /product as RW
Remount succeeded

D:\funpad\3576\3576\scripy-win64-v2.3.1\scripy-win64-v2.3.1>adb shell
rk3576_u:/ # echo 0 >/proc/sys/kernel/printk
rk3576_u:/ # cd /vendor/lib/modules/
rk3576_u:/vendor/lib/modules # insmod aic8800_bsp.ko1 testmode=1
rk3576_u:/vendor/lib/modules # insmod aic8800_fdrv.ko1
rk3576_u:/vendor/lib/modules # ifconfig wlan0 up
rk3576_u:/vendor/lib/modules # cd /data/
rk3576_u:/data # chmod 777 wifi_test
rk3576_u:/data # ./wifi_test wlan0 set_rx 1 0
set_rx:
done
rk3576_u:/data # ./wifi_test wlan0 set_rx 1 0
set_rx:
done
rk3576_u:/data # ./wifi_test wlan0 set_tx 1 0 0 3 1000
set_tx:
```

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Test Report

Date : 2026-04-27
No. : HMD26040001

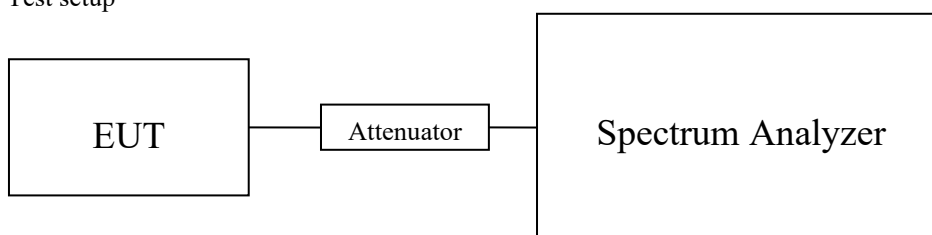
Page 6 of 83

2.1.1 EUT Duty cycle

The EUT shall be configured or modified to transmit continuously. The intent is to test at 100% duty cycle; however, a small reduction in duty cycle (to no lower than 98%) is permitted if required by the EUT for amplitude control purposes.

The test mode sample is provided by manufacturer.

Test setup

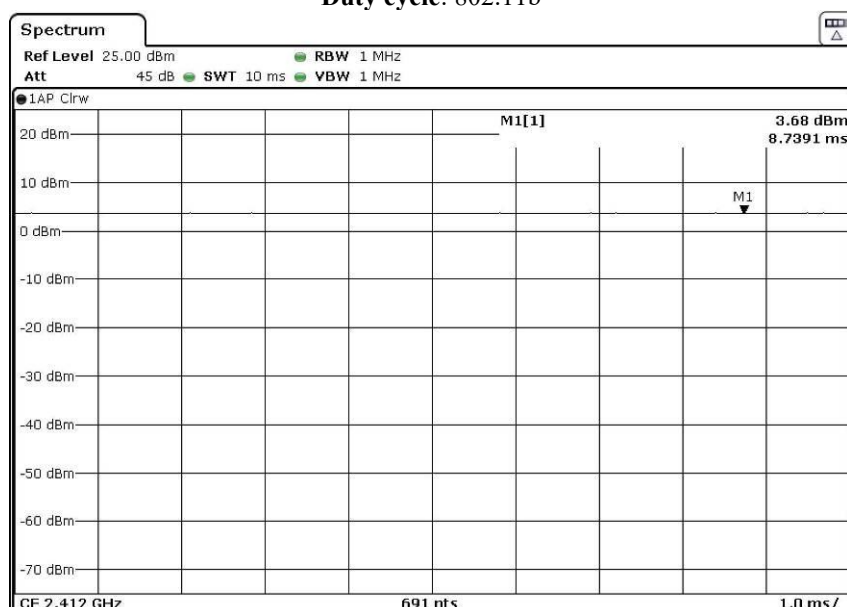


Results

Mode	On Time (msec)	Period (msec)	Duty Cycle X (Linear)	Duty Cycle (%)*
802.11b	1	1	1	100
802.11g	1	1	1	100
802.11n20	1	1	1	100
802.11n40	1	1	1	100

-*: If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Duty cycle: 802.11b



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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 7 of 83

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Output Power of Fundamental Emissions	FCC 47CFR 15.247(b)(3)	ANSI C63.10:2020	N/A	☒	☐	☐
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.10:2020	N/A	☒	☐	☐
Conducted Emissions	FCC 47CFR 15.207	ANSI C63.10:2020	N/A	☒	☐	☐
Power Spectral Density	FCC 47CFR 15.247(e)	N/A	N/A	☒	☐	☐
6dB Bandwidth	FCC 47CFR 15.247(a)(2)	N/A	N/A	☒	☐	☐
Band Edge Emissions	FCC 47CFR 15.247(d)	N/A	N/A	☒	☐	☐
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	☒	☐	☐

Note: N/A - Not Applicable

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 8 of 83

3.0 Test Results

3.1 Emission

3.1.1 Maximum Peak Output Power

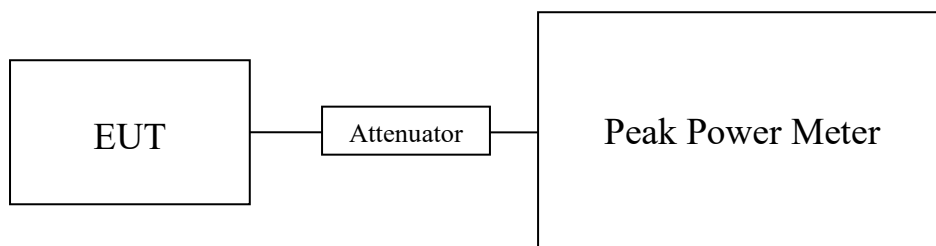
Test Requirement:	FCC 47CFR 15.247(b)(3)
Test Method:	ANSI C63.10:2020
Test Date:	2026-03-13
Mode of Operation:	WIFI Tx mode

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Test Method:

The RF output of the EUT was connected to the peak power meter. All the attenuation or cable loss will be added to the measured maximum output power. The results are recorded in Watt.

Test Setup:



Note: a temporary antenna connector was soldered to the RF output.



Test Report

Date : 2026-04-27
No. : HMD26040001

Page 9 of 83

Limits for Peak Output Power of Fundamental & Harmonics Emissions [FCC 47CFR 15.247]:

For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt (30dBm)

Results of WiFi mode 802.11 b, (2412MHz to 2462MHz) : Pass (TX Unit)

Maximum conducted output power

Channel	Frequency (MHz)	Output Power (Watt)
Low	2412	0.054475
Middle	2437	0.053518
High	2462	0.051511

Results of WiFi mode 802.11 g, (2412MHz to 2462MHz): Pass (TX Unit)

Maximum conducted output power

Channel	Frequency (MHz)	Output Power (Watt)
Low	2412	0.033327
Middle	2437	0.037549
High	2462	0.037094

Results of WiFi mode 802.11 n20, (2412MHz to 2462MHz): Pass (TX Unit)

Maximum conducted output power

Channel	Frequency (MHz)	Output Power (Watt)
Low	2412	0.038681
Middle	2437	0.036593
High	2462	0.033473

Results of WiFi mode 802.11 n40, (2422MHz to 2452MHz): Pass (TX Unit)

Maximum conducted output power

Channel	Frequency (MHz)	Output Power (Watt)
Low	2422	0.029587
Middle	2437	0.030718
High	2452	0.029826

Calculated measurement uncertainty : 30MHz to 1GHz 1.7dB
1GHz to 26GHz 1.7dB

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 10 of 83

3.1.2 Radiated Emissions

Test Requirement:	FCC 47CFR 15.209
Test Method:	ANSI C63.10:2020
Test Date:	2026-03-12
Mode of Operation:	WIFI Tx mode

Ambient Temperature: 24°C Relative Humidity: 52% Atmospheric Pressure: 101 kPa

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

* Semi-Anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with
Registration Number: HK0001
Test Firm Registration Number: 367672

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 11 of 83

Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)

RBW: 10kHz
VBW: 30kHz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

30MHz – 1GHz (QP)

RBW: 120kHz
VBW: 120kHz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

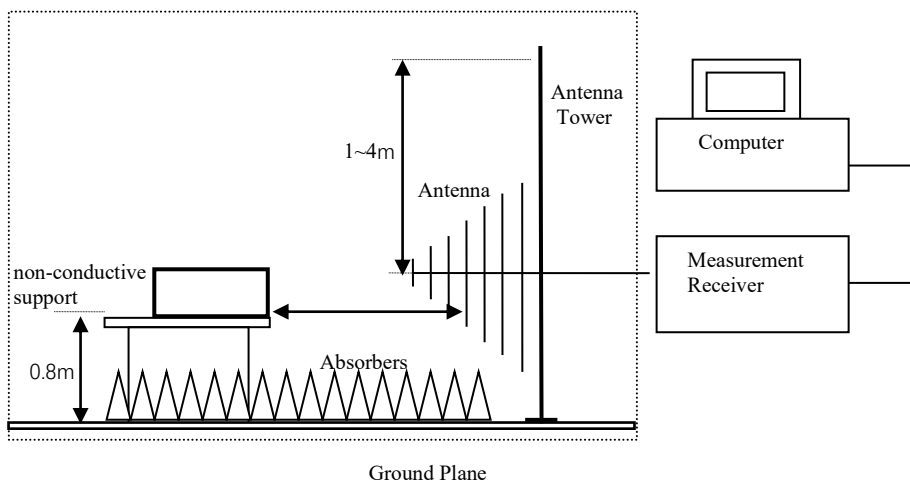
Above 1GHz (Pk)

RBW: 1MHz
VBW: 1MHz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

Above 1GHz (Av)

RBW: 1MHz
VBW: 10Hz
Sweep: Auto
Span: Fully capture the emissions being measured
Trace: Max. hold

Test Setup:



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used.

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 12 of 83

Limits for Radiated Emissions FCC 47 CFR 15.247]:

Frequency Range	Quasi-Peak Limits
[MHz]	[$\mu\text{V/m}$]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above 960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Result of Tx mode (2412.0 MHz) (802.11b) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured Level	Correction Factor	Field Strength	Field Strength	Limit	E-Field Polarity
MHz	dB μV	dB/m	dB $\mu\text{V/m}$	$\mu\text{V/m}$	$\mu\text{V/m}$	
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2412.0 MHz) (802.11b) (1GHz-25GHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured Level @3m	Correction Factor	Field Strength	Limit @3m	Margin	E-Field Polarity
MHz	dB μV	dB/m	dB $\mu\text{V/m}$	dB $\mu\text{V/m}$	dB	
4824.0	57.9	0.82	58.7	74.0	15.3	Vertical
4824.0	58.3	0.52	58.8	74.0	15.2	Horizontal
7236.0	50.5	7.00	57.5	74.0	16.5	Vertical
7236.0	51.3	6.50	57.8	74.0	16.2	Horizontal
9648.0	47.5	8.50	56.0	74.0	18.0	Vertical
9648.0	47.2	8.30	55.5	74.0	18.5	Horizontal
12060.0	45.3	10.90	56.2	74.0	17.8	Vertical
12060.0	45.3	10.80	56.1	74.0	17.9	Horizontal

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Test Report

Date : 2026-04-27

Page 13 of 83

No. : HMD26040001

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4824.0	41.3	0.82	42.1	54.0	11.9	Vertical
4824.0	42.0	0.52	42.5	54.0	11.5	Horizontal
7236.0	35.1	7.00	42.1	54.0	11.9	Vertical
7236.0	35.2	6.50	41.7	54.0	12.3	Horizontal
9648.0	32.1	8.50	40.6	54.0	13.4	Vertical
9648.0	32.9	8.30	41.2	54.0	12.8	Horizontal
12060.0	30.1	10.90	41.0	54.0	13.0	Vertical
12060.0	29.3	10.80	40.1	54.0	14.0	Horizontal

Result of Tx mode (2437.0 MHz) (802.11b) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Field	Limit	E-Field
MHz	Level	Factor	Strength	Strength	μV/m	Polarity
	dBμV	dB/m	dBμV/m	μV/m		
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2437.0 MHz) (802.11b) (1GHz-25GHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4874.0	58.0	0.82	58.8	74.0	15.2	Vertical
4874.0	57.9	0.52	58.4	74.0	15.6	Horizontal
7311.0	50.6	7.00	57.6	74.0	16.4	Vertical
7311.0	51.3	6.50	57.8	74.0	16.2	Horizontal
9748.0	47.8	8.50	56.3	74.0	17.7	Vertical
9748.0	47.7	8.30	56.0	74.0	18.0	Horizontal
12185.0	45.0	10.90	55.9	74.0	18.1	Vertical
12185.0	45.4	10.80	56.2	74.0	17.8	Horizontal

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Test Report

Date : 2026-04-27

Page 14 of 83

No. : HMD26040001

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
4874.0	42.4	0.82	43.2	54.0	10.8	Vertical
4874.0	42.1	0.52	42.6	54.0	11.4	Horizontal
7311.0	35.2	7.00	42.2	54.0	11.8	Vertical
7311.0	34.8	6.50	41.3	54.0	12.7	Horizontal
9748.0	33.5	8.50	42.0	54.0	12.0	Vertical
9748.0	32.9	8.30	41.2	54.0	12.8	Horizontal
12185.0	30.6	10.90	41.5	54.0	12.5	Vertical
12185.0	30.3	10.80	41.1	54.0	13.0	Horizontal

Result of Tx mode (2462.0 MHz) (802.11b) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Field	Limit	E-Field
MHz	Level	Factor	Strength	Strength		Polarity
	dBμV	dB/m	dBμV/m	μV/m	μV/m	
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2462.0 MHz) (802.11b) (1GHz-25GHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4924.0	57.5	0.82	58.3	74.0	15.7	Vertical
4924.0	57.6	0.52	58.1	74.0	15.9	Horizontal
7386.0	50.8	7.00	57.8	74.0	16.2	Vertical
7386.0	51.0	6.50	57.5	74.0	16.5	Horizontal
9848.0	47.7	8.50	56.2	74.0	17.8	Vertical
9848.0	47.5	8.30	55.8	74.0	18.2	Horizontal
12310.0	45.6	10.90	56.5	74.0	17.5	Vertical
12310.0	45.4	10.80	56.2	74.0	17.8	Horizontal

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 15 of 83

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4924.0	42.4	0.82	43.2	54.0	10.8	Vertical
4924.0	42.5	0.52	43.0	54.0	11.0	Horizontal
7386.0	35.6	7.00	42.6	54.0	11.4	Vertical
7386.0	35.9	6.50	42.4	54.0	11.7	Horizontal
9848.0	32.8	8.50	41.3	54.0	12.7	Vertical
9848.0	33.2	8.30	41.5	54.0	12.5	Horizontal
12310.0	29.8	10.90	40.7	54.0	13.3	Vertical
12310.0	30.4	10.80	41.2	54.0	12.8	Horizontal

Result of Tx mode (2412.0 MHz) (802.11g) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Field	Limit	E-Field
MHz	Level	Factor	Strength	Strength	μV/m	Polarity
	dBμV	dB/m	dBμV/m	μV/m		
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2412.0 MHz) (802.11g) (1GHz-25GHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4824.0	57.3	0.82	58.1	74.0	15.9	Vertical
4824.0	58.0	0.52	58.5	74.0	15.5	Horizontal
7236.0	50.5	7.00	57.5	74.0	16.5	Vertical
7236.0	50.8	6.50	57.3	74.0	16.8	Horizontal
9648.0	47.3	8.50	55.8	74.0	18.2	Vertical
9648.0	47.5	8.30	55.8	74.0	18.2	Horizontal
12060.0	45.3	10.90	56.2	74.0	17.8	Vertical
12060.0	45.0	10.80	55.8	74.0	18.2	Horizontal

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 16 of 83

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4824.0	42.2	0.82	43.0	54.0	11.0	Vertical
4824.0	41.9	0.52	42.4	54.0	11.6	Horizontal
7236.0	34.6	7.00	41.6	54.0	12.4	Vertical
7236.0	35.6	6.50	42.1	54.0	11.9	Horizontal
9648.0	31.9	8.50	40.4	54.0	13.6	Vertical
9648.0	33.2	8.30	41.5	54.0	12.5	Horizontal
12060.0	30.4	10.90	41.3	54.0	12.7	Vertical
12060.0	30.9	10.80	41.7	54.0	12.3	Horizontal

Result of Tx mode (2437.0 MHz) (802.11g) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Field	Limit	E-Field
MHz	Level	Factor	Strength	Strength		Polarity
	dBμV	dB/m	dBμV/m	μV/m	μV/m	
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2437.0 MHz) (802.11g) (1GHz-25GHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4874.0	57.9	0.82	58.7	74.0	15.3	Vertical
4874.0	58.0	0.52	58.5	74.0	15.5	Horizontal
7311.0	50.5	7.00	57.5	74.0	16.5	Vertical
7311.0	50.7	6.50	57.2	74.0	16.8	Horizontal
9748.0	47.1	8.50	55.6	74.0	18.4	Vertical
9748.0	47.2	8.30	55.5	74.0	18.5	Horizontal
12185.0	45.1	10.90	56.0	74.0	18.0	Vertical
12185.0	45.5	10.80	56.3	74.0	17.7	Horizontal

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Test Report

Date : 2026-04-27

Page 17 of 83

No. : HMD26040001

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4874.0	42.8	0.82	43.6	54.0	10.4	Vertical
4874.0	43.0	0.52	43.5	54.0	10.5	Horizontal
7311.0	34.8	7.00	41.8	54.0	12.2	Vertical
7311.0	35.7	6.50	42.2	54.0	11.8	Horizontal
9748.0	33.0	8.50	41.5	54.0	12.5	Vertical
9748.0	32.8	8.30	41.1	54.0	12.9	Horizontal
12185.0	31.1	10.90	42.0	54.0	12.0	Vertical
12185.0	30.6	10.80	41.4	54.0	12.6	Horizontal

Result of Tx mode (2462.0 MHz) (802.11g) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Field	Limit	E-Field
MHz	Level	Factor	Strength	Strength		Polarity
	dBμV	dB/m	dBμV/m	μV/m	μV/m	
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2462.0 MHz) (802.11g) (1GHz-25GHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4924.0	57.6	0.82	58.4	74.0	15.6	Vertical
4924.0	58.3	0.52	58.8	74.0	15.2	Horizontal
7386.0	50.0	7.00	57.0	74.0	17.0	Vertical
7386.0	51.4	6.50	57.9	74.0	16.2	Horizontal
9848.0	47.7	8.50	56.2	74.0	17.9	Vertical
9848.0	47.8	8.30	56.1	74.0	17.9	Horizontal
12310.0	45.6	10.90	56.5	74.0	17.5	Vertical
12310.0	45.2	10.80	56.0	74.0	18.0	Horizontal

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 18 of 83

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4924.0	42.8	0.82	43.6	54.0	10.4	Vertical
4924.0	42.3	0.52	42.8	54.0	11.2	Horizontal
7386.0	35.5	7.00	42.5	54.0	11.5	Vertical
7386.0	36.4	6.50	42.9	54.0	11.1	Horizontal
9848.0	33.0	8.50	41.5	54.0	12.5	Vertical
9848.0	33.0	8.30	41.3	54.0	12.7	Horizontal
12310.0	30.8	10.90	41.7	54.0	12.3	Vertical
12310.0	31.2	10.80	42.0	54.0	12.0	Horizontal

Result of Tx mode (2412.0 MHz) (802.11n20) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Field	Limit	E-Field
MHz	Level	Factor	Strength	Strength	μV/m	Polarity
	dBμV	dB/m	dBμV/m	μV/m		
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2412.0 MHz) (802.11n20) (1GHz-25GHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4824.0	58.3	0.82	59.1	74.0	14.9	Vertical
4824.0	58.2	0.52	58.7	74.0	15.3	Horizontal
7236.0	50.1	7.00	57.1	74.0	16.9	Vertical
7236.0	50.9	6.50	57.4	74.0	16.7	Horizontal
9648.0	47.1	8.50	55.6	74.0	18.4	Vertical
9648.0	47.6	8.30	55.9	74.0	18.1	Horizontal
12060.0	45.2	10.90	56.1	74.0	17.9	Vertical
12060.0	45.5	10.80	56.3	74.0	17.7	Horizontal

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 19 of 83

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4824.0	42.8	0.82	43.6	54.0	10.4	Vertical
4824.0	42.0	0.52	42.5	54.0	11.5	Horizontal
7236.0	35.3	7.00	42.3	54.0	11.7	Vertical
7236.0	35.9	6.50	42.4	54.0	11.6	Horizontal
9648.0	33.0	8.50	41.5	54.0	12.5	Vertical
9648.0	33.0	8.30	41.3	54.0	12.7	Horizontal
12060.0	30.2	10.90	41.1	54.0	12.9	Vertical
12060.0	30.8	10.80	41.6	54.0	12.4	Horizontal

Result of Tx mode (2437.0 MHz) (802.11n20) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Field	Limit	E-Field
MHz	Level	Factor	Strength	Strength		Polarity
	dBμV	dB/m	dBμV/m	μV/m	μV/m	
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2437.0 MHz) (802.11n20) (1GHz-25GHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4874.0	58.3	0.82	59.1	74.0	14.9	Vertical
4874.0	58.2	0.52	58.7	74.0	15.3	Horizontal
7311.0	50.7	7.00	57.7	74.0	16.3	Vertical
7311.0	50.7	6.50	57.2	74.0	16.8	Horizontal
9748.0	47.3	8.50	55.8	74.0	18.2	Vertical
9748.0	48.1	8.30	56.4	74.0	17.6	Horizontal
12185.0	45.2	10.90	56.1	74.0	17.9	Vertical
12185.0	45.4	10.80	56.2	74.0	17.8	Horizontal

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Test Report

Date : 2026-04-27

Page 20 of 83

No. : HMD26040001

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4874.0	42.2	0.82	43.0	54.0	11.0	Vertical
4874.0	42.3	0.52	42.8	54.0	11.2	Horizontal
7311.0	36.2	7.00	43.2	54.0	10.8	Vertical
7311.0	35.6	6.50	42.1	54.0	11.9	Horizontal
9748.0	32.5	8.50	41.0	54.0	13.0	Vertical
9748.0	33.0	8.30	41.3	54.0	12.7	Horizontal
12185.0	30.2	10.90	41.1	54.0	12.9	Vertical
12185.0	30.9	10.80	41.7	54.0	12.3	Horizontal

Result of Tx mode (2462.0 MHz) (802.11n20) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Field	Limit	E-Field
MHz	Level	Factor	Strength	Strength		Polarity
	dBμV	dB/m	dBμV/m	μV/m	μV/m	
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2462.0 MHz) (802.11n20) (1GHz-25GHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4924.0	58.3	0.82	59.1	74.0	14.9	Vertical
4924.0	57.8	0.52	58.3	74.0	15.7	Horizontal
7386.0	50.6	7.00	57.6	74.0	16.4	Vertical
7386.0	51.0	6.50	57.5	74.0	16.5	Horizontal
9848.0	47.1	8.50	55.6	74.0	18.4	Vertical
9848.0	48.0	8.30	56.3	74.0	17.7	Horizontal
12310.0	45.2	10.90	56.1	74.0	17.9	Vertical
12310.0	45.2	10.80	56.0	74.0	18.0	Horizontal

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Test Report

Date : 2026-04-27

Page 21 of 83

No. : HMD26040001

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4924.0	42.3	0.82	43.1	54.0	10.9	Vertical
4924.0	42.3	0.52	42.8	54.0	11.2	Horizontal
7386.0	35.1	7.00	42.1	54.0	11.9	Vertical
7386.0	35.8	6.50	42.3	54.0	11.7	Horizontal
9848.0	33.2	8.50	41.7	54.0	12.3	Vertical
9848.0	32.7	8.30	41.0	54.0	13.0	Horizontal
12310.0	31.2	10.90	42.1	54.0	12.0	Vertical
12310.0	30.7	10.80	41.5	54.0	12.5	Horizontal

Result of Tx mode (2422.0 MHz) (802.11n40) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Field	Limit	E-Field
	Level	Factor	Strength	Strength		Polarity
MHz	dBμV	dB/m	dBμV/m	μV/m	μV/m	
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2422.0 MHz) (802.11n40) (1GHz-25GHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4844.0	56.6	0.82	57.4	74.0	16.6	Vertical
4844.0	57.0	0.52	57.5	74.0	16.5	Horizontal
7266.0	50.3	7.00	57.3	74.0	16.7	Vertical
7266.0	50.4	6.50	56.9	74.0	17.1	Horizontal
9688.0	46.9	8.50	55.4	74.0	18.6	Vertical
9688.0	47.6	8.30	55.9	74.0	18.1	Horizontal
12110.0	45.2	10.90	56.1	74.0	17.9	Vertical
12110.0	45.6	10.80	56.4	74.0	17.7	Horizontal

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 22 of 83

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4844.0	41.6	0.82	42.4	54.0	11.6	Vertical
4844.0	42.1	0.52	42.6	54.0	11.4	Horizontal
7266.0	35.6	7.00	42.6	54.0	11.4	Vertical
7266.0	35.6	6.50	42.1	54.0	11.9	Horizontal
9688.0	32.9	8.50	41.4	54.0	12.6	Vertical
9688.0	33.1	8.30	41.4	54.0	12.6	Horizontal
12110.0	31.3	10.90	42.2	54.0	11.8	Vertical
12110.0	30.8	10.80	41.6	54.0	12.4	Horizontal

Result of Tx mode (2437.0 MHz) (802.11n40) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Field	Limit	E-Field
MHz	Level	Factor	Strength	Strength		Polarity
	dBμV	dB/m	dBμV/m	μV/m	μV/m	
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2437.0 MHz) (802.11n40) (1GHz-25GHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4874.0	56.3	0.82	57.1	74.0	16.9	Vertical
4874.0	56.7	0.52	57.2	74.0	16.8	Horizontal
7311.0	50.1	7.00	57.1	74.0	16.9	Vertical
7311.0	50.5	6.50	57.0	74.0	17.0	Horizontal
9748.0	47.0	8.50	55.5	74.0	18.5	Vertical
9748.0	47.5	8.30	55.8	74.0	18.2	Horizontal
12185.0	45.1	10.90	56.0	74.0	18.0	Vertical
12185.0	45.4	10.80	56.2	74.0	17.8	Horizontal

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Test Report

Date : 2026-04-27

Page 23 of 83

No. : HMD26040001

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4874.0	41.6	0.82	42.4	54.0	11.6	Vertical
4874.0	41.5	0.52	42.1	54.0	12.0	Horizontal
7311.0	35.2	7.00	42.2	54.0	11.8	Vertical
7311.0	35.6	6.50	42.1	54.0	11.9	Horizontal
9748.0	33.6	8.50	42.1	54.0	11.9	Vertical
9748.0	33.1	8.30	41.4	54.0	12.6	Horizontal
12185.0	30.3	10.90	41.2	54.0	12.8	Vertical
12185.0	30.9	10.80	41.7	54.0	12.3	Horizontal

Result of Tx mode (2452.0 MHz) (802.11n40) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Field	Limit	E-Field
MHz	Level	Factor	Strength	Strength		Polarity
	dBμV	dB/m	dBμV/m	μV/m	μV/m	
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2452.0 MHz) (802.11n40) (1GHz-25GHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	
4904.0	56.3	0.82	57.1	74.0	16.9	Vertical
4904.0	56.5	0.52	57.0	74.0	17.0	Horizontal
7356.0	49.9	7.00	56.9	74.0	17.2	Vertical
7356.0	49.8	6.50	56.3	74.0	17.7	Horizontal
9808.0	47.1	8.50	55.6	74.0	18.4	Vertical
9808.0	47.5	8.30	55.8	74.0	18.2	Horizontal
12260.0	45.2	10.90	56.1	74.0	17.9	Vertical
12260.0	45.3	10.80	56.1	74.0	17.9	Horizontal

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 24 of 83

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dB μ V	dB/m	dB μ V/m	dB μ V/m	dB	
4904.0	41.3	0.82	42.1	54.0	11.9	Vertical
4904.0	41.8	0.52	42.3	54.0	11.7	Horizontal
7356.0	34.6	7.00	41.6	54.0	12.4	Vertical
7356.0	35.6	6.50	42.1	54.0	12.0	Horizontal
9808.0	33.4	8.50	41.9	54.0	12.1	Vertical
9808.0	34.8	8.30	43.1	54.0	10.9	Horizontal
12260.0	31.2	10.90	42.1	54.0	11.9	Vertical
12260.0	30.7	10.80	41.5	54.0	12.5	Horizontal

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

* Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement (9kHz-30MHz): 2.0dB

uncertainty (30MHz -1GHz): 4.9dB

(1GHz -26GHz): 4.02dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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Test Report

Date : 2026-04-27

Page 25 of 83

No. : HMD26040001

Radiated Emissions Measurement:

Limit :

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 5.205(c)).

Result: RF Radiated Emissions (Lowest)-802.11b

Field Strength of Band-edge Compliance						
Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2390.0	63.3	-4.8	58.5	74.0	15.5	Vertical
2390.0	63.0	-4.7	58.3	74.0	15.7	Horizontal

Field Strength of Band-edge Compliance						
Average Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2390.0	53.2	-4.8	48.4	54.0	5.6	Vertical
2390.0	52.9	-4.7	48.2	54.0	5.8	Horizontal

Result: RF Radiated Emissions (Highest) -802.11b

Field Strength of Band-edge Compliance						
Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2483.5	68.5	-4.8	63.7	74.0	10.3	Vertical
2483.5	68.2	-4.7	63.5	74.0	10.5	Horizontal

Field Strength of Band-edge Compliance						
Average Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2483.5	56.8	-4.8	52.0	54.0	2.0	Vertical
2483.5	56.2	-4.7	51.5	54.0	2.5	Horizontal

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Test Report

Date : 2026-04-27

Page 26 of 83

No. : HMD26040001

Result: RF Radiated Emissions (Lowest)-802.11g

Field Strength of Band-edge Compliance Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2390.0	70.3	-4.8	65.5	74.0	8.5	Vertical
2390.0	70.0	-4.7	65.3	74.0	8.7	Horizontal

Field Strength of Band-edge Compliance Average Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2390.0	50.3	-4.8	45.5	54.0	8.5	Vertical
2390.0	49.9	-4.7	45.2	54.0	8.8	Horizontal

Result: RF Radiated Emissions (Highest) -802.11g

Field Strength of Band-edge Compliance Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2483.5	74.5	-4.8	69.7	74.0	4.3	Vertical
2483.5	74.8	-4.7	70.1	74.0	3.9	Horizontal

Field Strength of Band-edge Compliance Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2390.0	73.4	-4.8	68.6	74.0	5.4	Vertical
2390.0	72.3	-4.7	67.6	74.0	6.4	Horizontal

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Test Report

Date : 2026-04-27

Page 27 of 83

No. : HMD26040001

Result: RF Radiated Emissions (Lowest)-802.11n20

Field Strength of Band-edge Compliance Average Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2483.5	52.3	-4.8	47.5	54.0	6.5	Horizontal
2483.5	52.6	-4.7	47.9	54.0	6.2	Horizontal

Field Strength of Band-edge Compliance Average Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2390.0	49.6	-4.8	44.8	54.0	9.2	Vertical
2390.0	49.0	-4.7	44.3	54.0	9.7	Horizontal

Result: RF Radiated Emissions (Highest) -802.11n20

Field Strength of Band-edge Compliance Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2483.5	73.1	-4.8	68.3	74.0	5.7	Vertical
2483.5	74.1	-4.7	69.4	74.0	4.6	Horizontal

Field Strength of Band-edge Compliance Average Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2483.5	56.2	-4.8	51.4	54.0	2.6	Horizontal
2483.5	56.6	-4.7	51.9	54.0	2.1	Horizontal

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Test Report

Date : 2026-04-27

Page 28 of 83

No. : HMD26040001

Result: RF Radiated Emissions (Lowest)-802.11n40

Field Strength of Band-edge Compliance Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2390.0	73.1	-4.8	68.3	74.0	5.7	Vertical
2390.0	72.8	-4.7	68.1	74.0	5.9	Horizontal

Field Strength of Band-edge Compliance Average Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2390.0	52.5	-4.8	47.7	54.0	6.3	Vertical
2390.0	51.2	-4.7	46.5	54.0	7.5	Horizontal

Result: RF Radiated Emissions (Highest) -802.11n40

Field Strength of Band-edge Compliance Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2483.5	70.1	-4.8	65.3	74.0	8.7	Vertical
2483.5	70.9	-4.7	66.2	74.0	7.8	Horizontal

Field Strength of Band-edge Compliance Average Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dB	E-Field Polarity
2483.5	52.8	-4.8	48.0	54.0	6.0	Horizontal
2483.5	53.1	-4.7	48.4	54.0	5.6	Horizontal

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 29 of 83

Limits for Radiated Emissions FCC 47 CFR 15.247|:

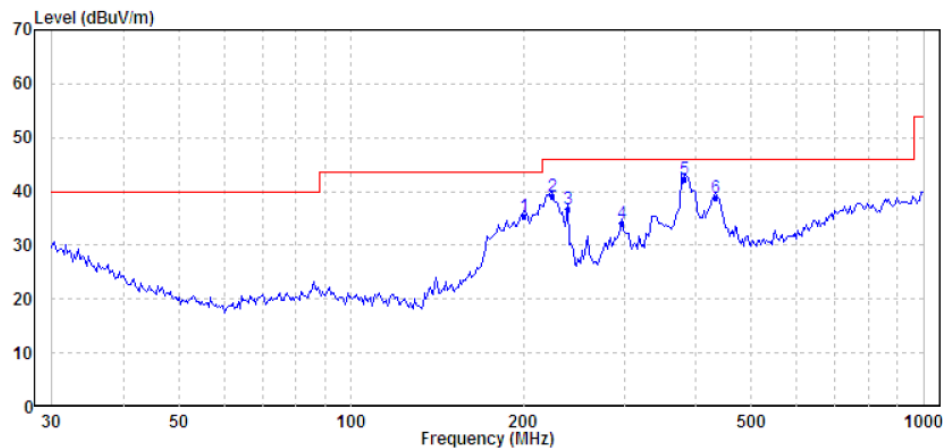
Frequency Range	Quasi-Peak Limits
[MHz]	[$\mu\text{V/m}$]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above 960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of WIFI TX mode: Pass

Please refer to the following table for result details (The data is the worst cases)

Horizontal



Ambient Temperature: 25.1 °C
Relative Humidity : 53.6%
Air Pressure : 100.9kPa

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1	200.688	35.34	43.50	-8.16	QP	Horizontal
2	224.519	39.17	46.00	-6.83	QP	Horizontal
3	239.147	36.74	46.00	-9.26	QP	Horizontal
4	297.224	33.98	46.00	-12.02	QP	Horizontal
5	382.588	42.20	46.00	-3.80	QP	Horizontal
6	434.065	38.79	46.00	-7.21	QP	Horizontal

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 30 of 83

Limits for Radiated Emissions FCC 47 CFR 15.247 Class B1:

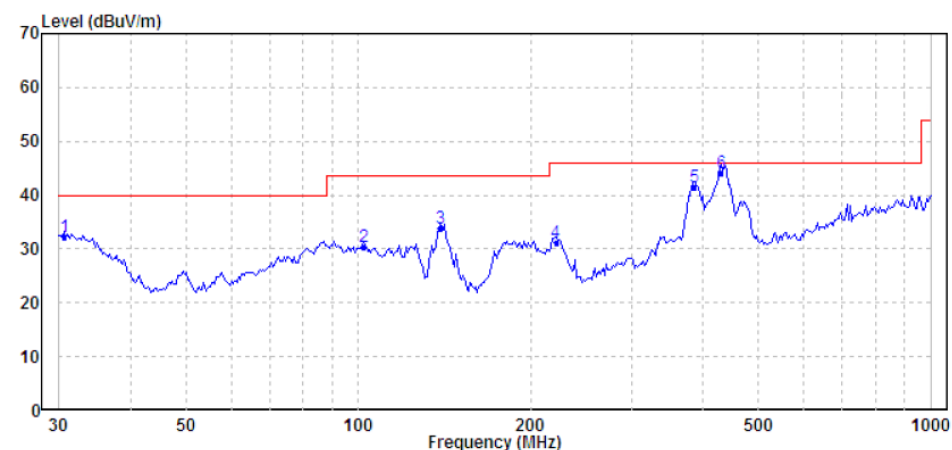
Frequency Range	Quasi-Peak Limits
[MHz]	[μ V/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above 960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of WIFI TX mode: Pass

Please refer to the following table for result details (The data is the worst cases)

Vertical



Ambient Temperature: 25.1 °C

Relative Humidity : 53.6%

Air Pressure : 100.9kPa

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1	30.638	32.32	40.00	-7.68	QP	Vertical
2	102.360	30.37	43.50	-13.13	QP	Vertical
3	139.361	33.91	43.50	-9.59	QP	Vertical
4	221.392	31.15	46.00	-14.85	QP	Vertical
5	385.281	41.42	46.00	-4.58	QP	Vertical
6	431.032	44.03	46.00	-1.97	QP	Vertical

Remarks: Calculated measurement uncertainty (30MHz – 1GHz): 4.9dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 31 of 83

3.1.3 AC Mains Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.207
Test Method: ANSI C63.10:2020
Test Date: 2026-03-10
Mode of Operation: WIFI TX mode
Test Voltage: 120Va.c. 60Hz

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

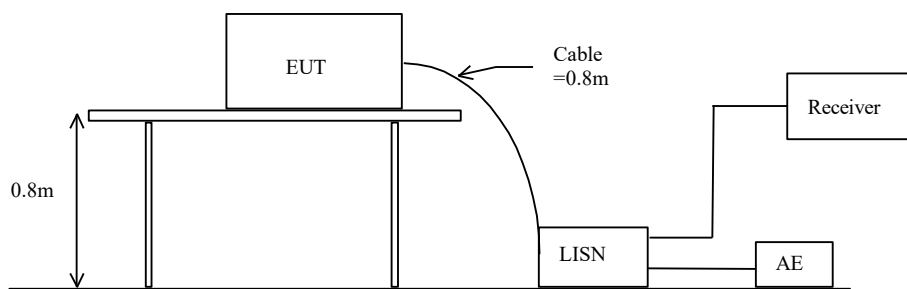
Test Method:

The test was performed in accordance with ANSI C63.10:2020, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Receiver Setting:

Bandw. = 9 kHz, Meas. Time= 10.0 ms, Step Width = 5.0kHz
Detector = MaxPeak and CISPR AV

Test Setup:



Limits for Conducted Emissions (FCC 47 CFR 15.207):

Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Remarks:

Calculated measurement uncertainty (0.15MHz – 30MHz): 3.25dB

-*- Emission(s) that is far below the corresponding limit line.

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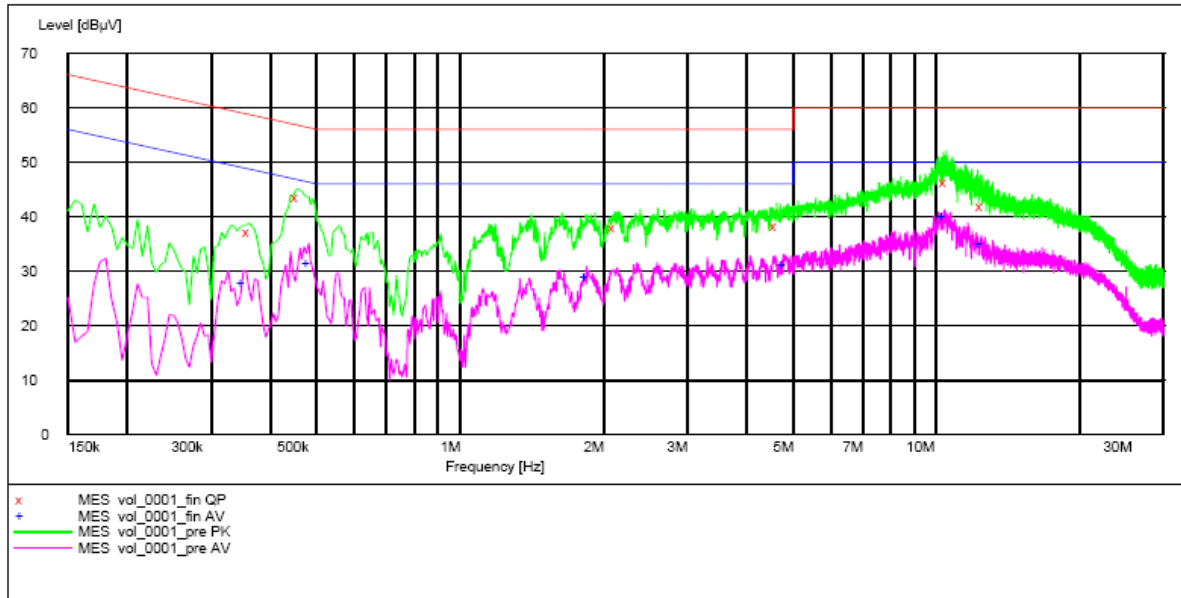
Date : 2026-04-27

Page 32 of 83

No. : HMD26040001

Results of WIFI TX mode (L): PASS

Please refer to the following diagram for individual results.



MEASUREMENT RESULT: "vol_0001_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.360000	37.30	9.6	59	21.4	L1	GND
0.455000	43.60	9.6	57	13.1	L1	GND
2.115000	38.10	9.7	56	17.9	L1	GND
4.620000	38.40	9.7	56	17.6	L1	GND
10.500000	46.40	9.9	60	13.6	L1	GND
12.535000	41.90	10.1	60	18.1	L1	GND

MEASUREMENT RESULT: "vol_0001_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.350000	27.70	9.6	49	21.2	L1	GND
0.480000	31.30	9.6	46	15.0	L1	GND
1.840000	28.80	9.7	46	17.2	L1	GND
4.790000	31.00	9.7	46	15.0	L1	GND
10.410000	40.00	9.9	50	10.0	L1	GND
12.430000	35.10	10.1	50	14.9	L1	GND

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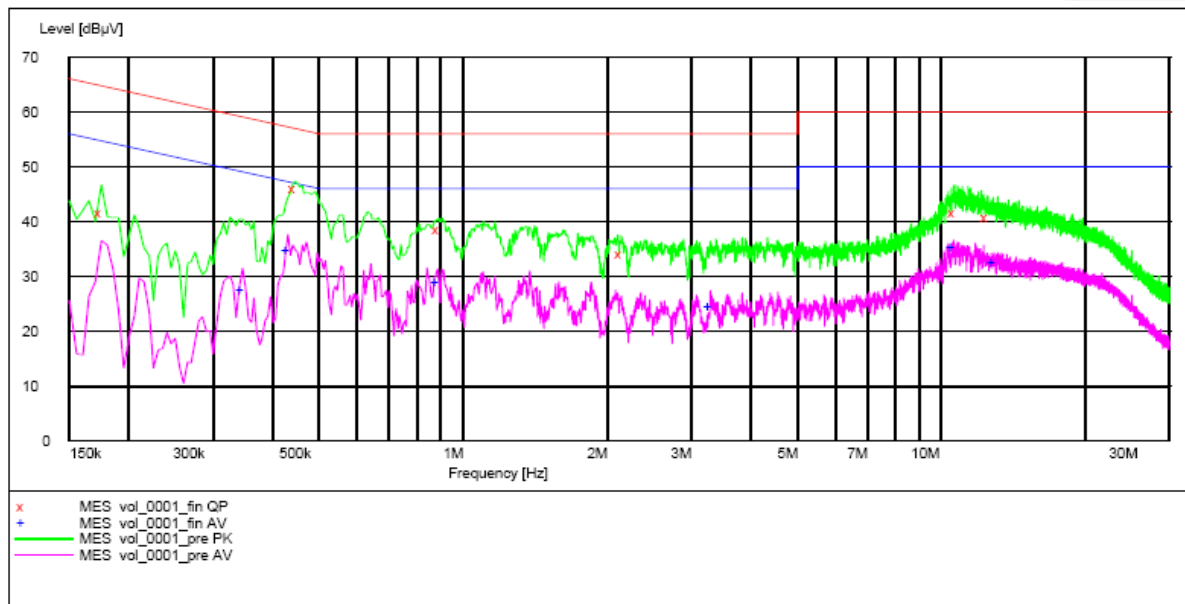
Date : 2026-04-27

Page 33 of 83

No. : HMD26040001

Results of WIFI TX mode (N): PASS

Please refer to the following diagram for individual results.



MEASUREMENT RESULT: "vol_0001_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.175000	41.70	9.6	65	23.0	N	GND
0.445000	46.20	9.6	57	10.7	N	GND
0.890000	38.60	9.7	56	17.4	N	GND
2.140000	34.20	9.7	56	21.8	N	GND
10.660000	41.60	9.9	60	18.4	N	GND
12.480000	40.70	10.1	60	19.3	N	GND

MEASUREMENT RESULT: "vol_0001_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.345000	27.60	9.6	49	21.5	N	GND
0.430000	34.70	9.6	47	12.5	N	GND
0.885000	29.00	9.7	46	17.0	N	GND
3.290000	24.40	9.7	46	21.6	N	GND
10.605000	35.30	9.9	50	14.7	N	GND
12.915000	32.50	10.1	50	17.5	N	GND

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 34 of 83

3.1.4 Power Spectral Density

Test Requirement: FCC 47CFR 15.247(e)
Test Method: ANSI C63.10:2020
Test Date: 2026-03-16
Mode of Operation: WIFI TX mode

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Test Method:

The RF output of the EUT was connected to the spectrum analyzer. Set the fundamental frequency as the center frequency of the spectral analyzer. Use RBW=100kHz , VBW= 300KHz , Set the span to 1.5 times the DTS channel bandwidth. Detector = peak, Sweep time = auto couple , Trace mode = max hold. Measure the Power Spectral Density (PSD) and record the results in dBm.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

Test Limit:

The maximum power spectral density (PSD) shall not exceeded 8dBm in any 3kHz band.

Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10 \log (3 \text{ kHz} / 100 \text{ kHz}) = -15.2 \text{ dB}$



Test Report

Date : 2026-04-27

Page 35 of 83

No. : HMD26040001

Results of WIFI TX Mode 802.11 b (Tx:2412MHz to 2462MHz): Pass (TX Unit)

Maximum power spectral density

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2412.0	-6.878	8dBm
2437.0	-7.972	8dBm
2462.0	-4.828	8dBm

Results of WIFI TX Mode 802.11 g (Tx:2412MHz to 2462MHz): Pass (TX Unit)

Maximum power spectral density

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2412.0	-12.157	8dBm
2437.0	-12.013	8dBm
2462.0	-11.238	8dBm

Results of WIFI TX Mode 802.11 n20 (Tx:2412MHz to 2462MHz): Pass (TX Unit)

Maximum power spectral density

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2412.0	-12.611	8dBm
2437.0	-12.763	8dBm
2462.0	-10.749	8dBm

Results of WIFI TX Mode 802.11 n40 (Tx:2422MHz to 2422MHz): Pass (TX Unit)

Maximum power spectral density

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2422.0	-16.114	8dBm
2437.0	-16.587	8dBm
2452.0	-17.779	8dBm

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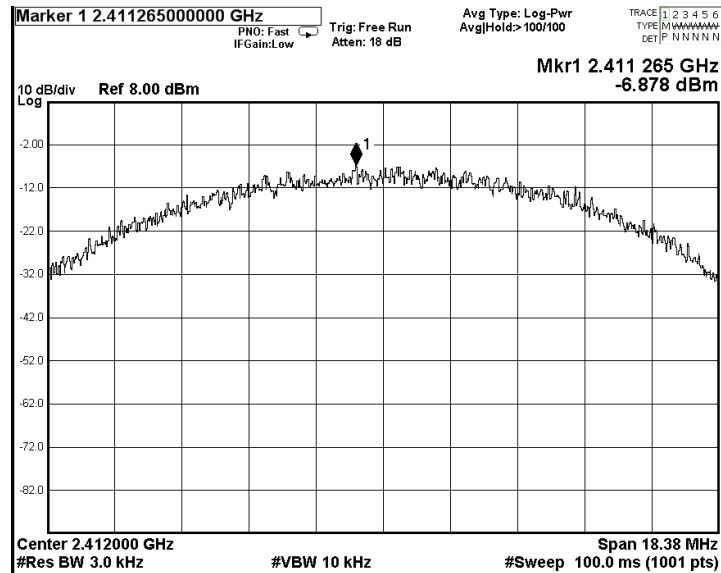


Test Report

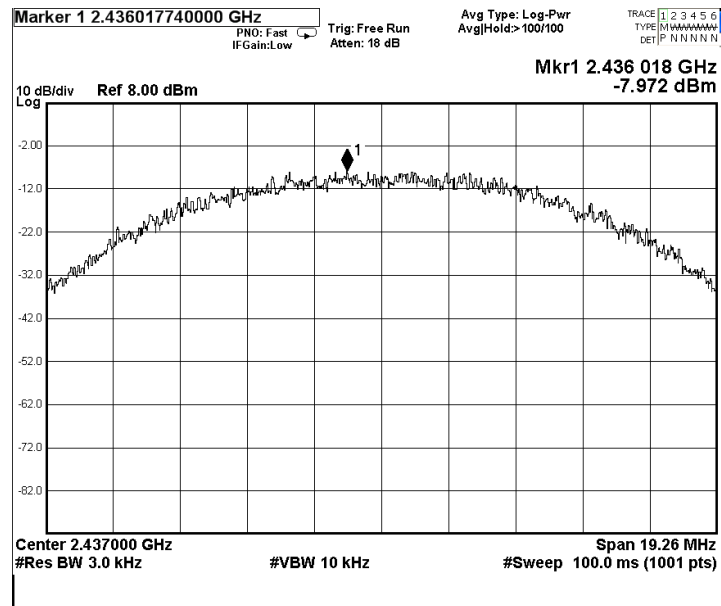
Date : 2026-04-27
No. : HMD26040001

Page 36 of 83

WiFi mode 802.11 b
CH 1 (2412.0 MHz)



CH 6 (2437.0 MHz)



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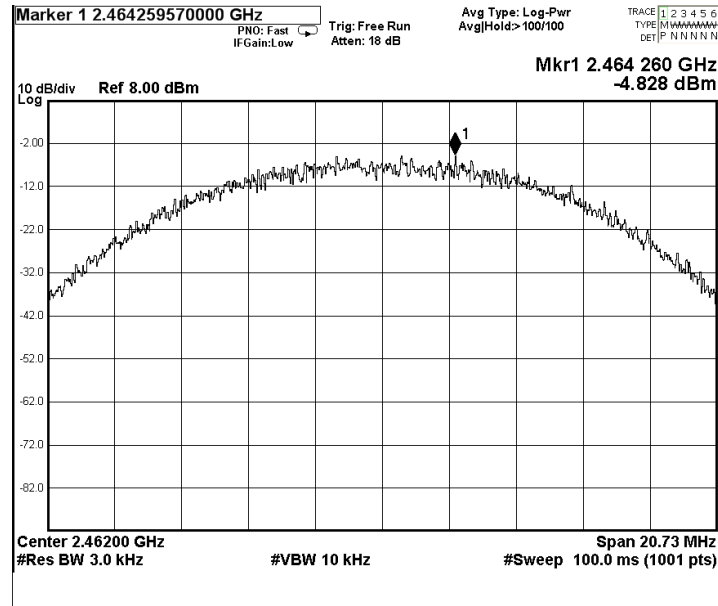


Test Report

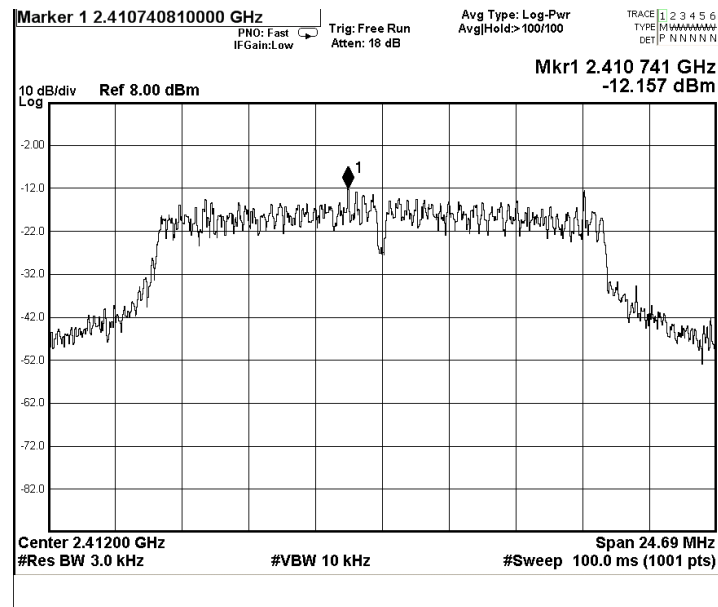
Date : 2026-04-27
No. : HMD26040001

Page 37 of 83

CH 11 (2462.0 MHz)



WiFi mode 802.11 g
CH 1 (2412.0 MHz)



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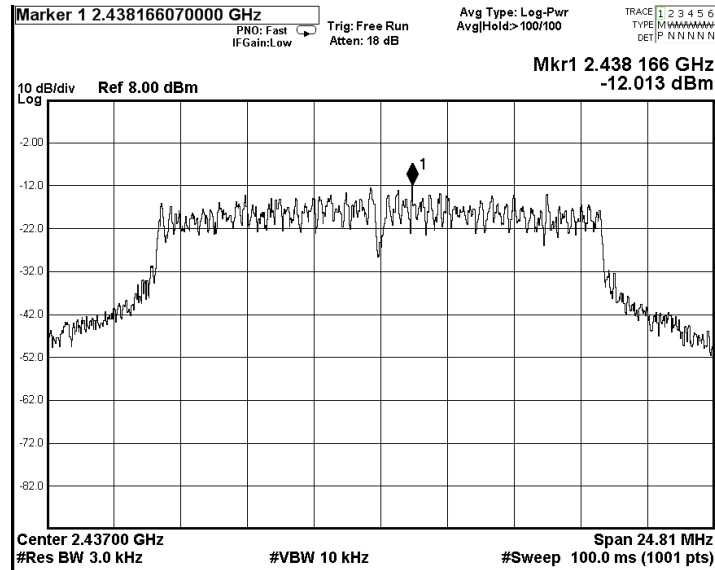


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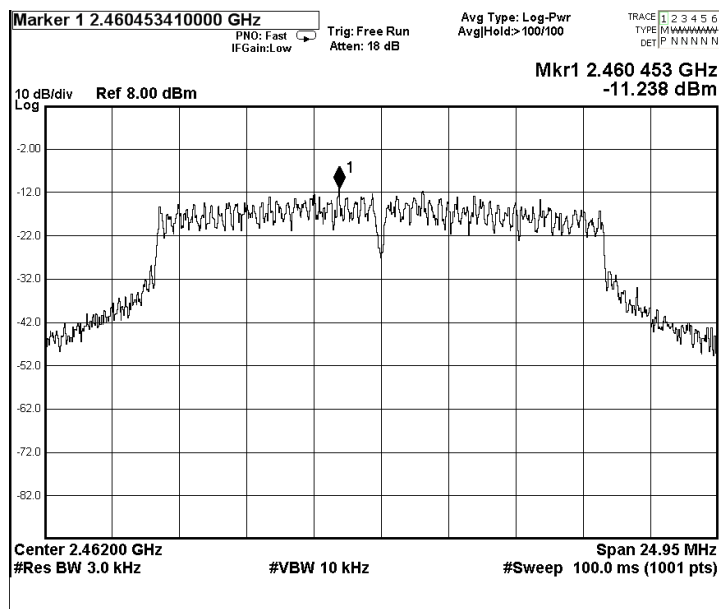
Date : 2026-04-27
No. : HMD26040001

Page 38 of 83

CH 6 (2437.0 MHz)



CH 11 (2462.0 MHz)



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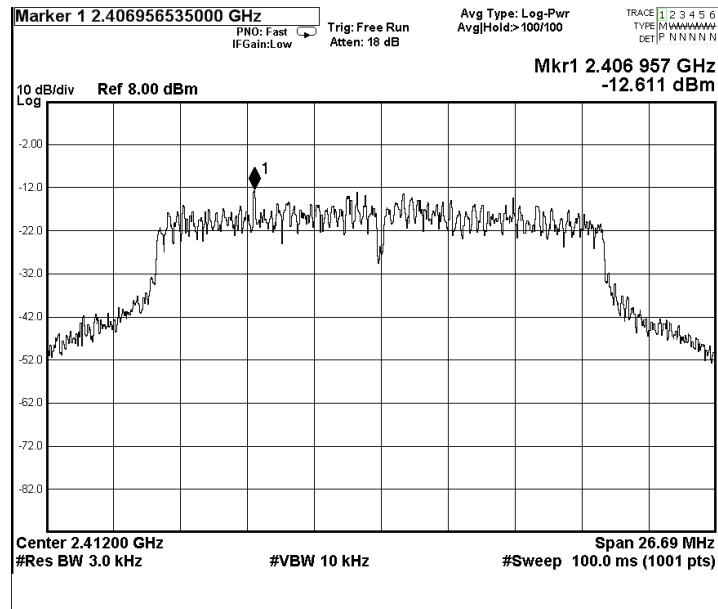


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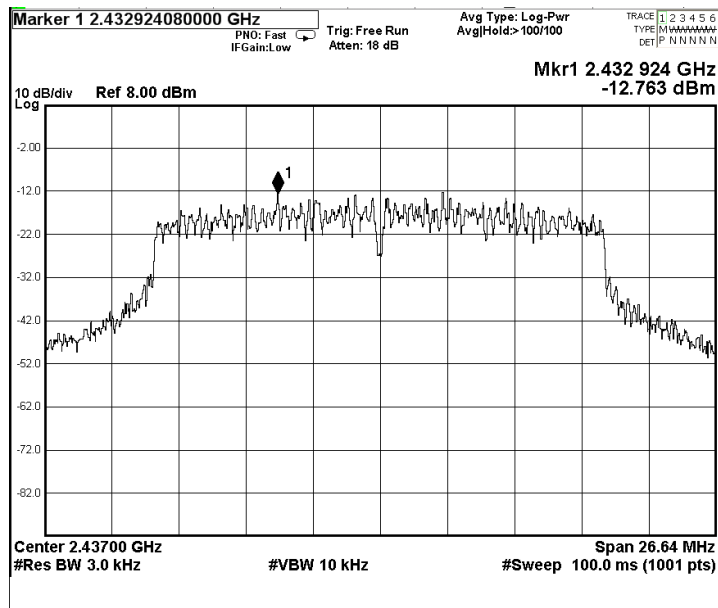
Date : 2026-04-27
No. : HMD26040001

Page 39 of 83

WiFi mode 802.11 n20
CH 1 (2412.0 MHz)



CH 6 (2437.0 MHz)



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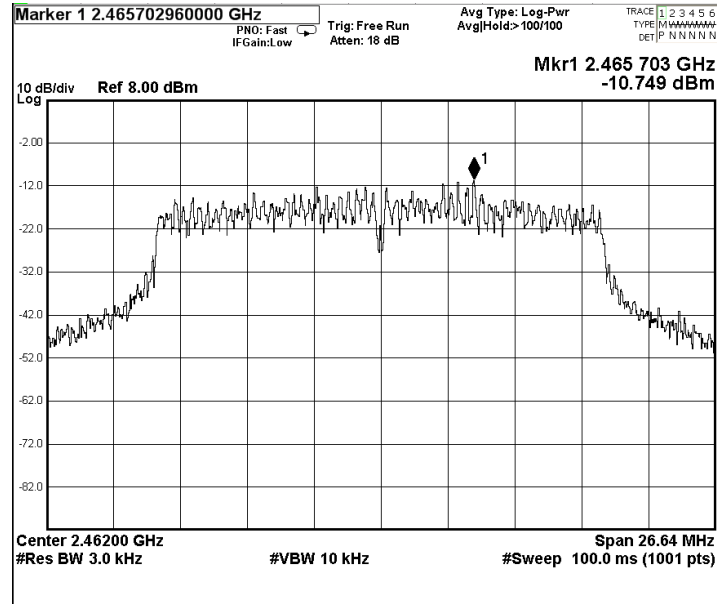
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Date : 2026-04-27

No. : HMD26040001

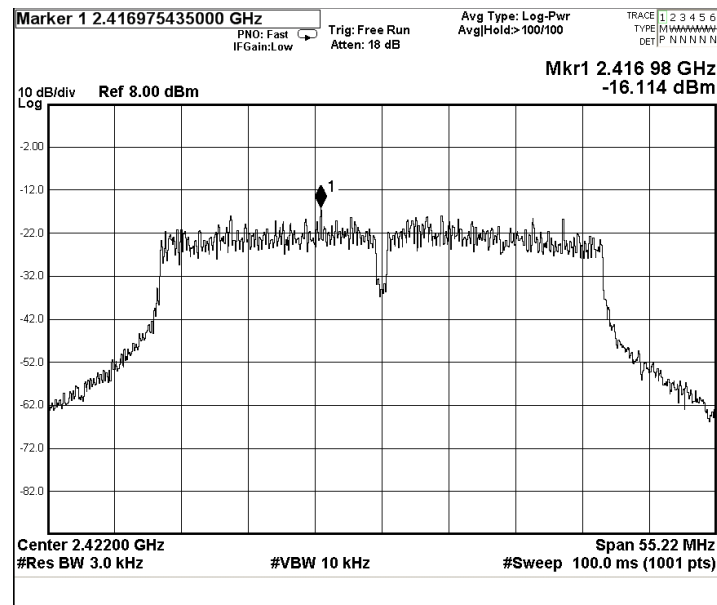
Page 40 of 83

CH 11 (2462.0 MHz)



WiFi mode 802.11 n40

CH 3 (2422.0 MHz)



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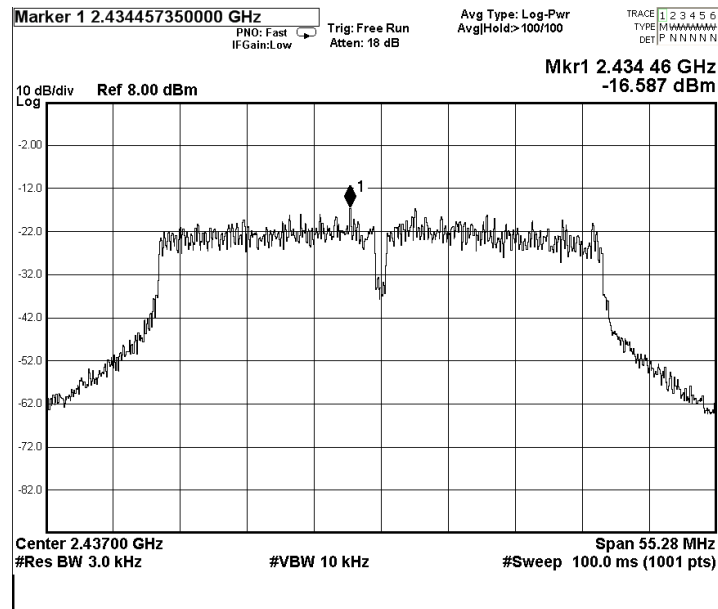


Test Report

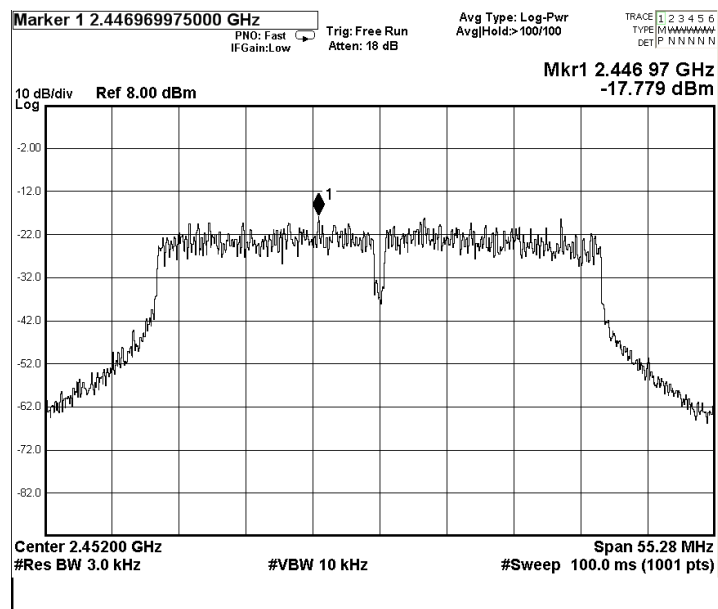
Date : 2026-04-27
No. : HMD26040001

Page 41 of 83

CH 6 (2437.0 MHz)



CH 9 (2452.0 MHz)



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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 42 of 83

3.1.5 6dB Spectrum Bandwidth Measurement

Test Requirement: FCC 47CFR 15.247(a)(2)
Test Method: ANSI C63.10:2020
Test Date: 2026-03-16
Mode of Operation: WIFI TX mode

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Spectrum Analyzer Setting:

RBW = in the range of 1% to 5% of the OBW but not less than 100 kHz,
VBW $\geq 3 \times$ RBW, Sweep = Auto couple
Detector = Peak, Trace = Max. hold

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

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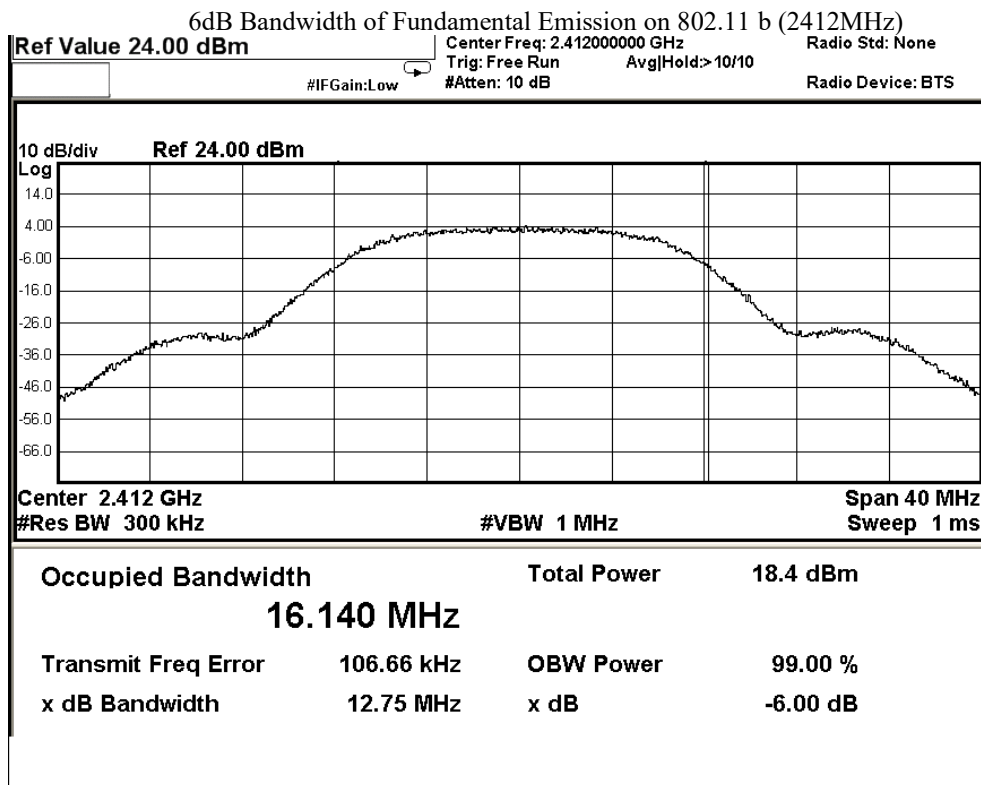
Date : 2026-04-27

Page 43 of 83

No. : HMD26040001

Limits for 6dB Spectrum Bandwidth Measurement:

Center Frequency [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2412.0	12.75	> 500



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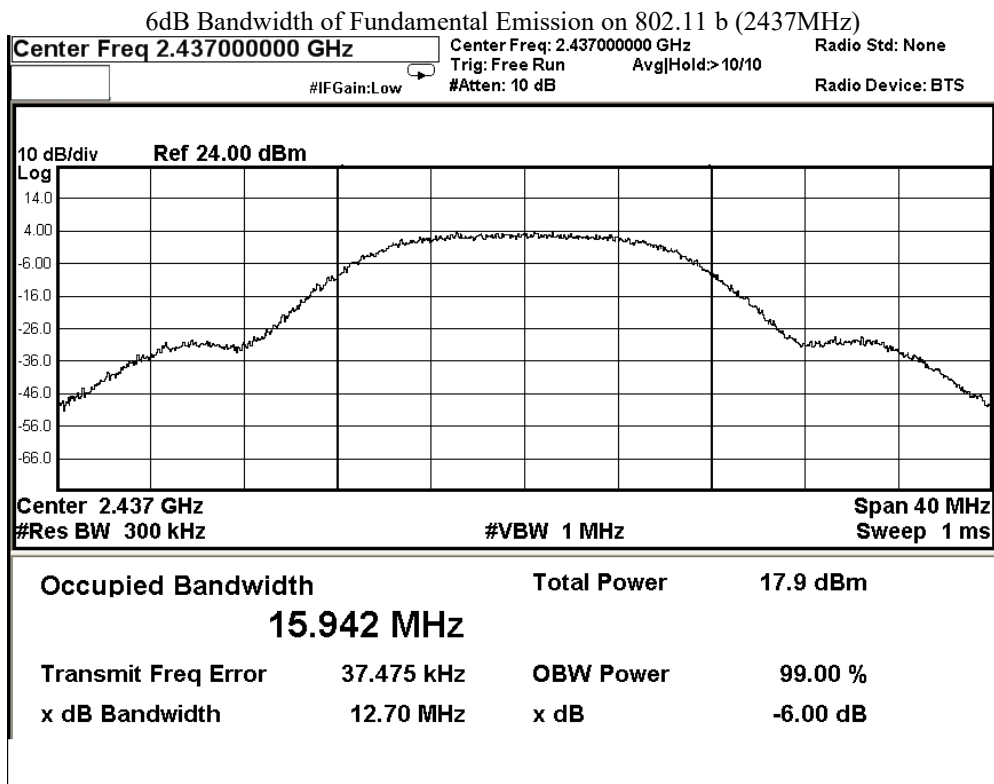
Date : 2026-04-27

Page 44 of 83

No. : HMD26040001

Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2437.0	12.70	> 500



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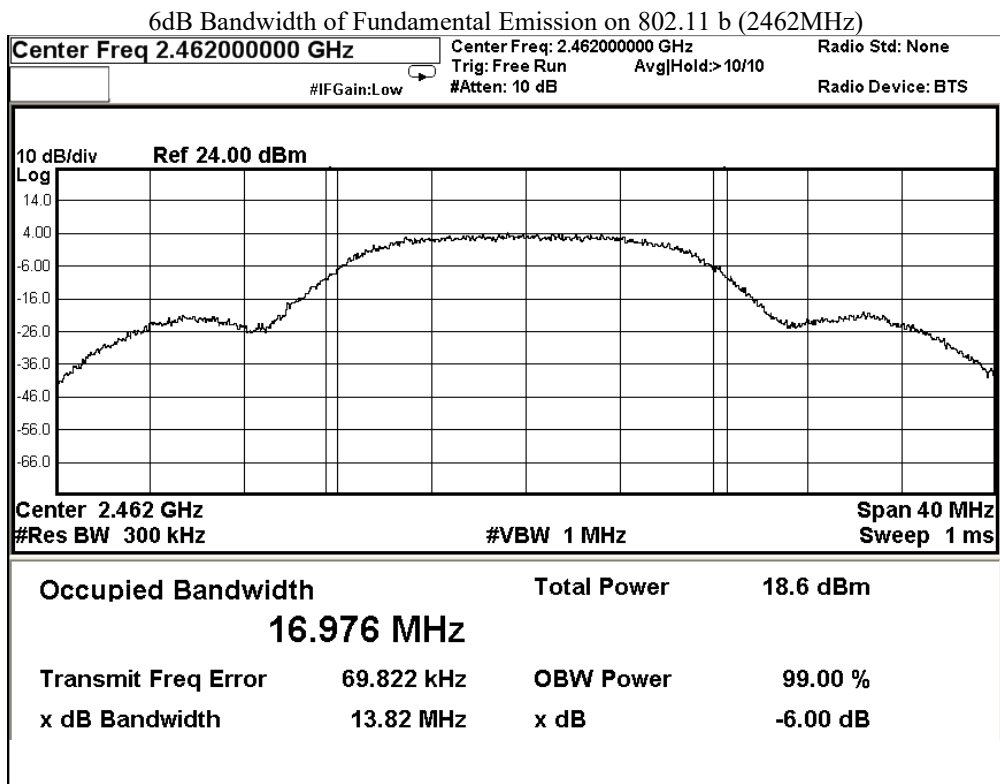
Test Report

Date : 2026-04-27
No. : HMD26040001

Page 45 of 83

Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2462.0	13.82	> 500



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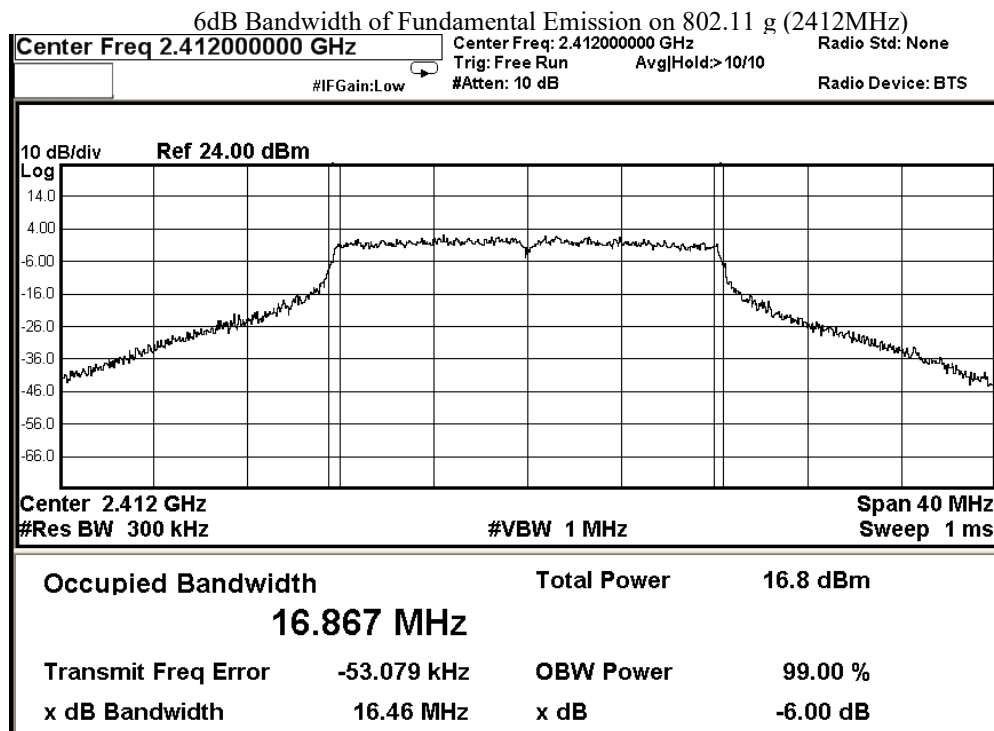
Test Report

Date : 2026-04-27
No. : HMD26040001

Page 46 of 83

Limits for 6dB Spectrum Bandwidth Measurement:

Center Frequency [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2412.0	16.46	> 500



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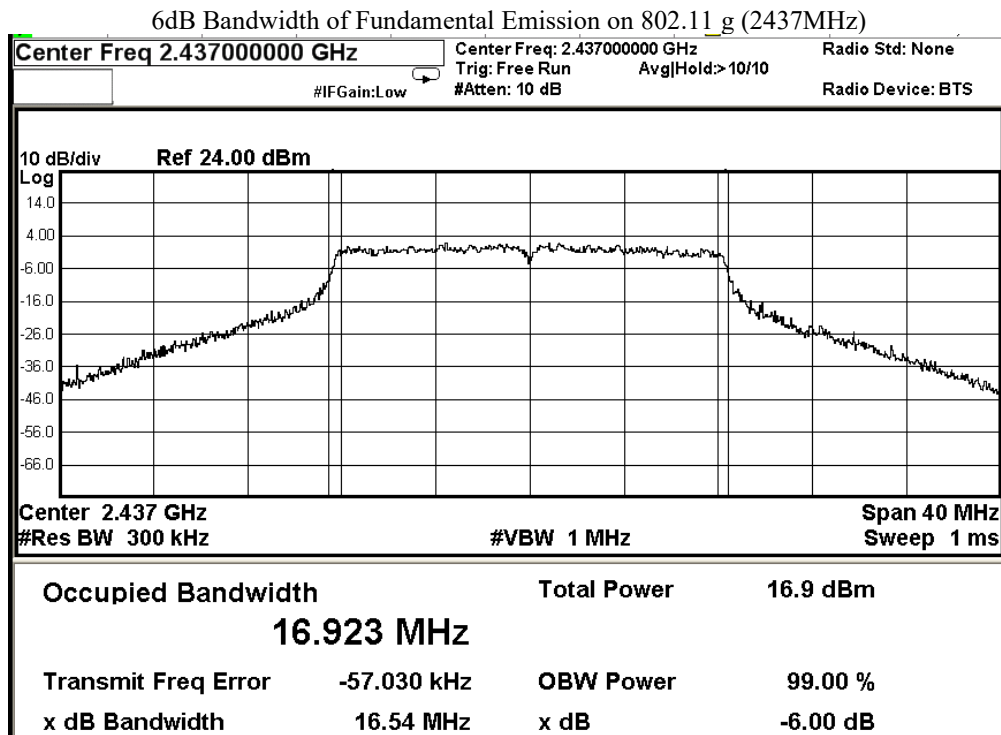
Date : 2026-04-27

Page 47 of 83

No. : HMD26040001

Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2437.0	16.54	> 500



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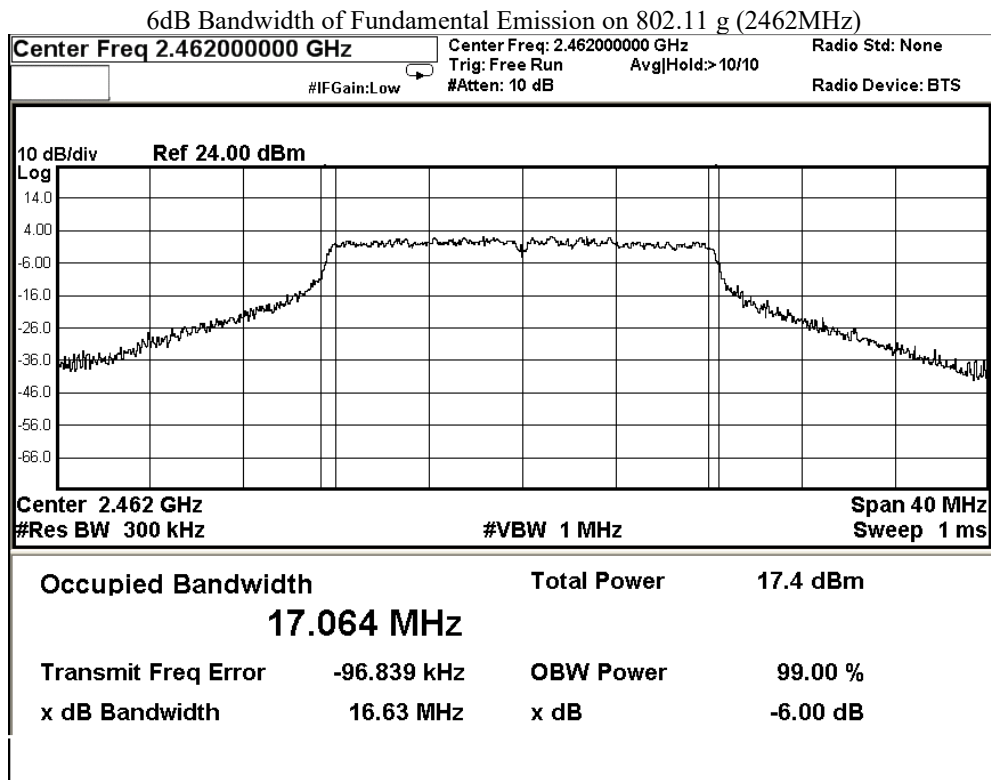
Test Report

Date : 2026-04-27
No. : HMD26040001

Page 48 of 83

Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2462.0	16.63	> 500



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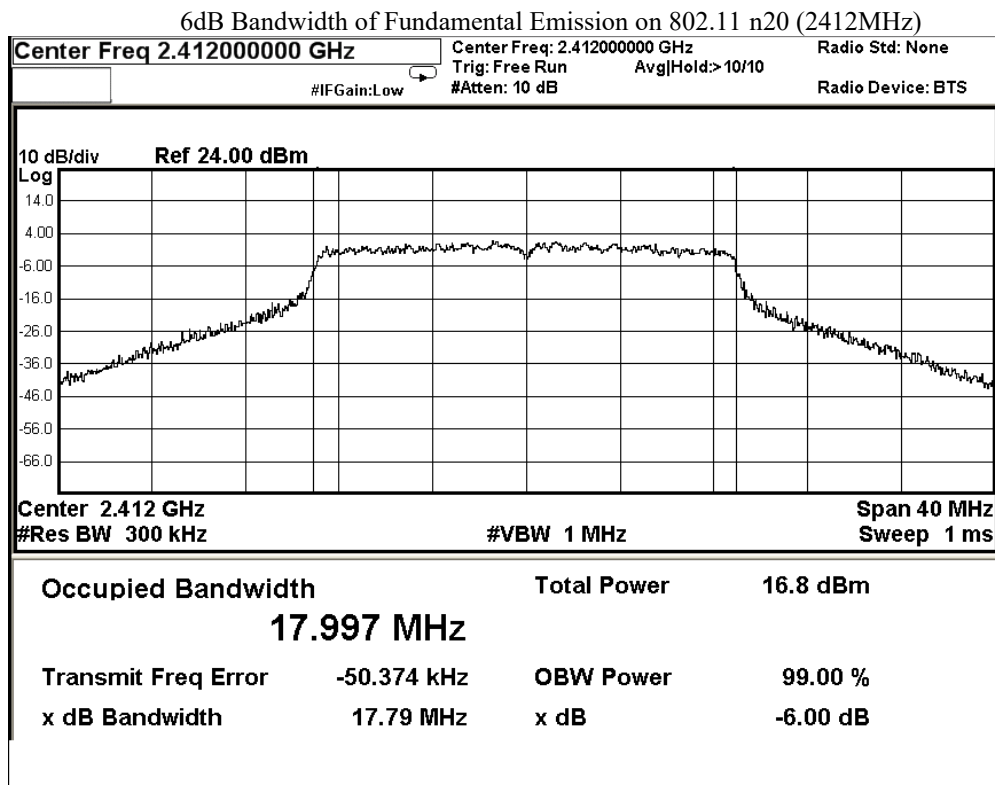
Test Report

Date : 2026-04-27
No. : HMD26040001

Page 49 of 83

Limits for 6dB Spectrum Bandwidth Measurement:

Center Frequency [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2412.0	17.79	> 500



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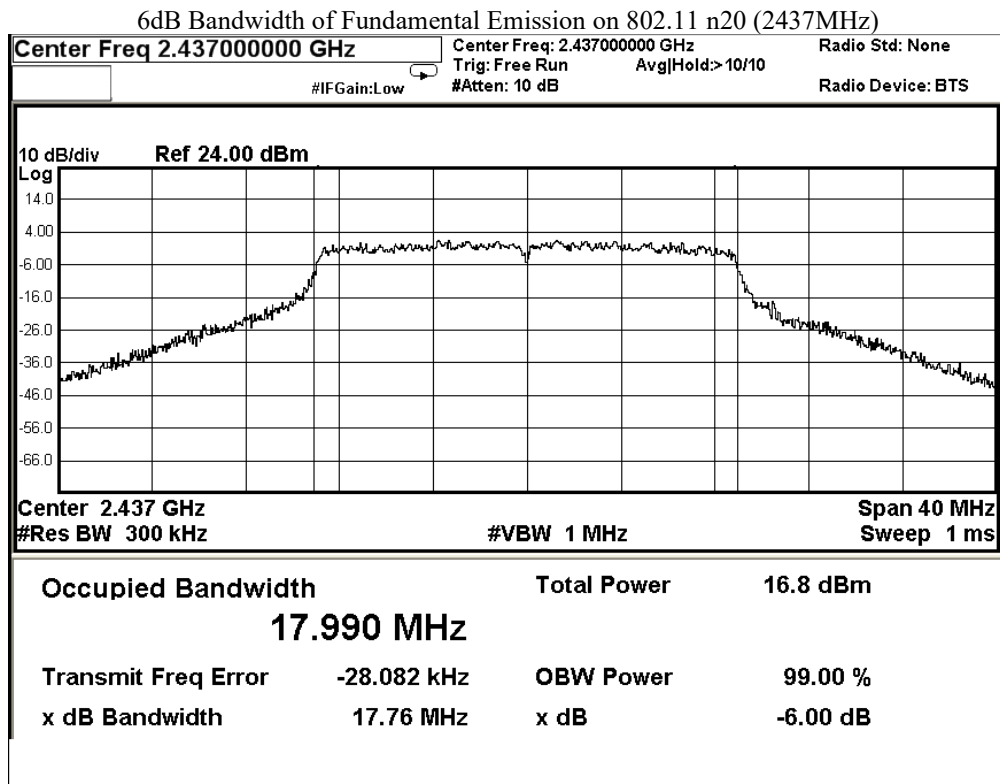
Test Report

Date : 2026-04-27
No. : HMD26040001

Page 50 of 83

Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2437.0	17.76	> 500



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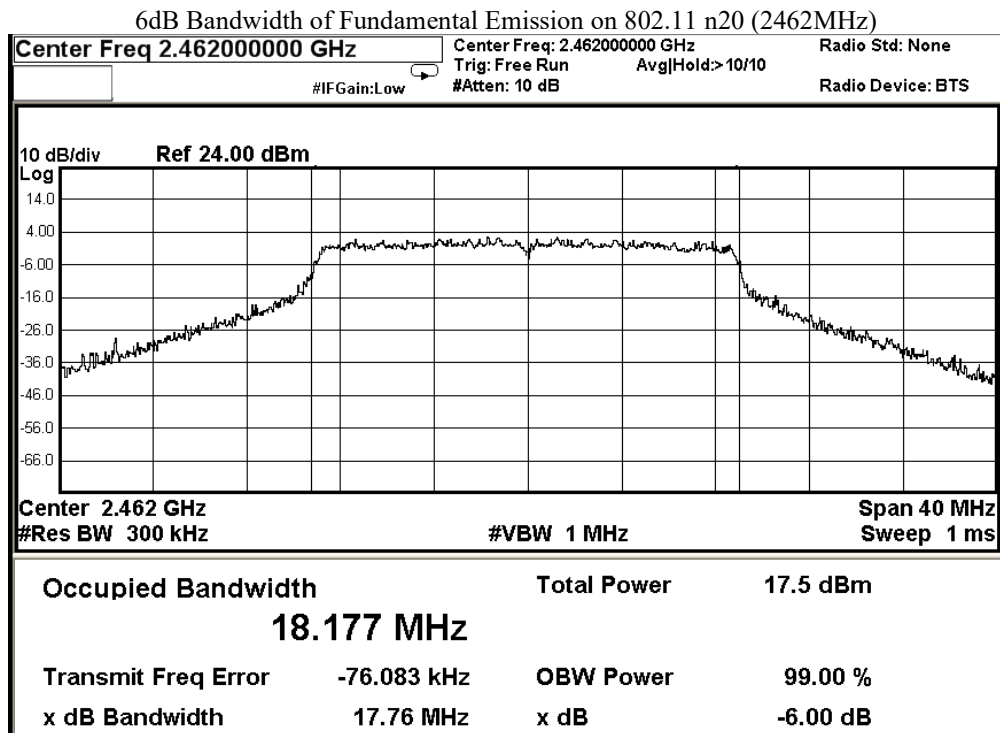
Date : 2026-04-27

Page 51 of 83

No. : HMD26040001

Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2462.0	17.76	> 500



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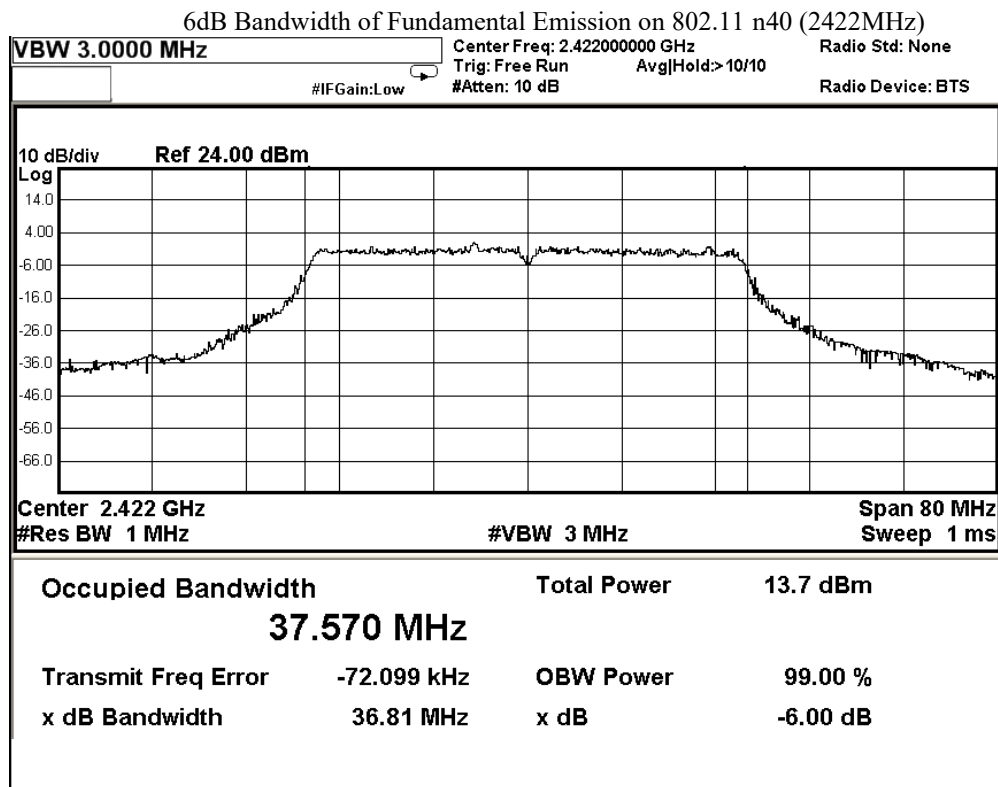
Test Report

Date : 2026-04-27
No. : HMD26040001

Page 52 of 83

Limits for 6dB Spectrum Bandwidth Measurement:

Center Frequency [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2422.0	36.81	> 500





Test Report

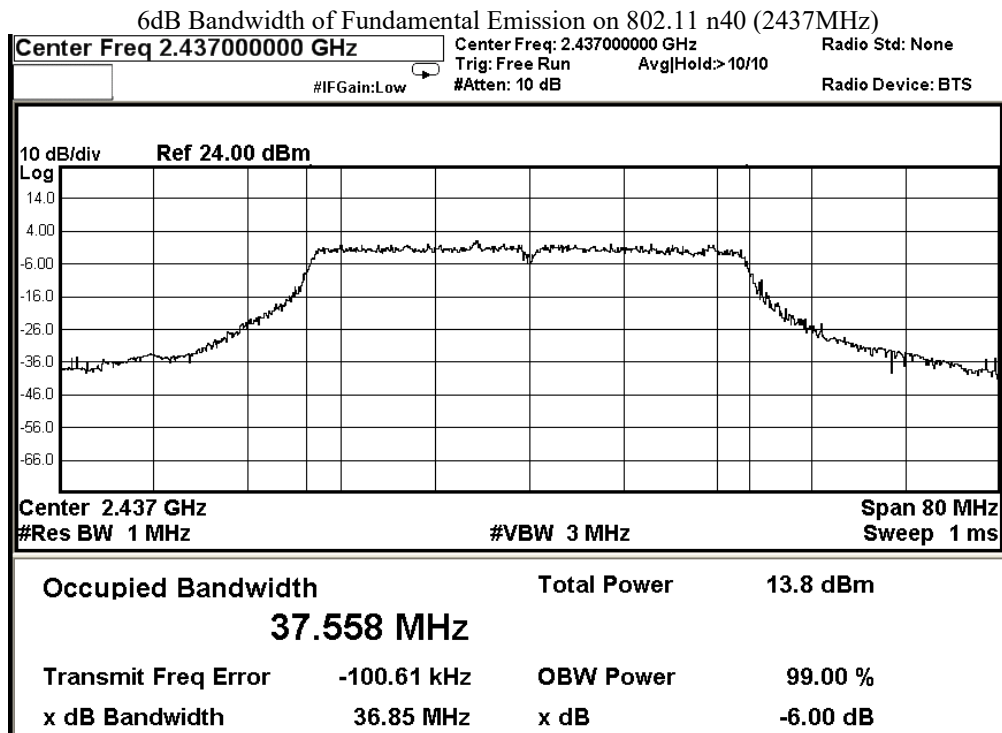
Date : 2026-04-27

Page 53 of 83

No. : HMD26040001

Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2437.0	36.85	> 500



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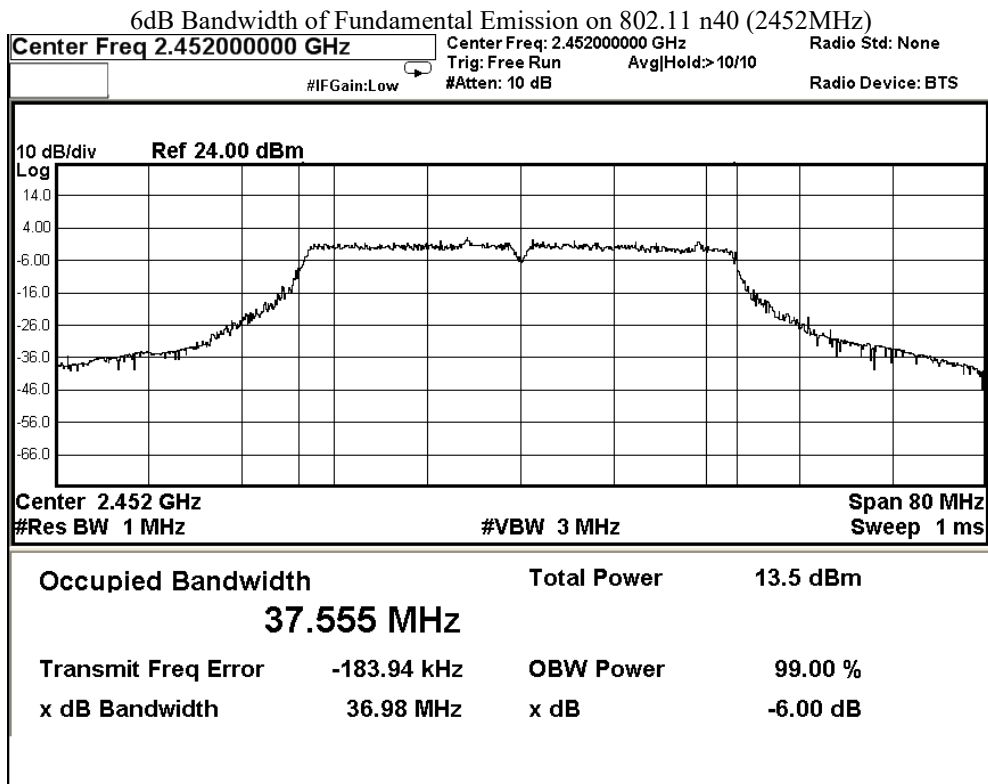
Date : 2026-04-27

Page 54 of 83

No. : HMD26040001

Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range [MHz]	6dB Bandwidth [MHz]	FCC Limits [kHz]
2452.0	36.98	> 500



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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 55 of 83

3.1.6 Band Edges Measurement

Test Requirement: FCC 47CFR 15.247
Test Method: ANSI C63.10:2020
Test Date: 2026-06-16
Mode of Operation: WIFI TX mode

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Test Method:

The band edge is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. The RBW are set to 100kHz and VBW are set to 300kHz for this measurement.

Test Setup:

As Test Setup of clause 3.1.2 in this test report.



Test Report

Date : 2026-04-27

Page 56 of 83

No. : HMD26040001

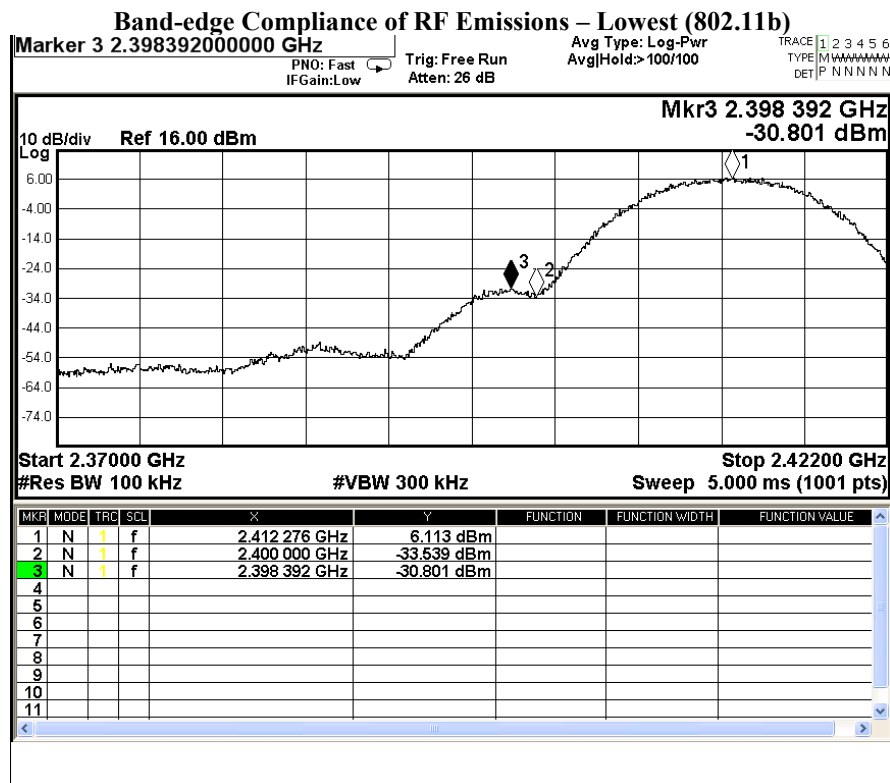
Band-edge Compliance of RF Conducted Emissions Measurement:

Limit :

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required.

Remark: The worst-case measurement results were recorded in the test report
The following plots include cable losses :0.3dB (There is no Attenuator)

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2400 – Lowest Fundamental (2412)	6.113	-13.887	-30.801	Pass



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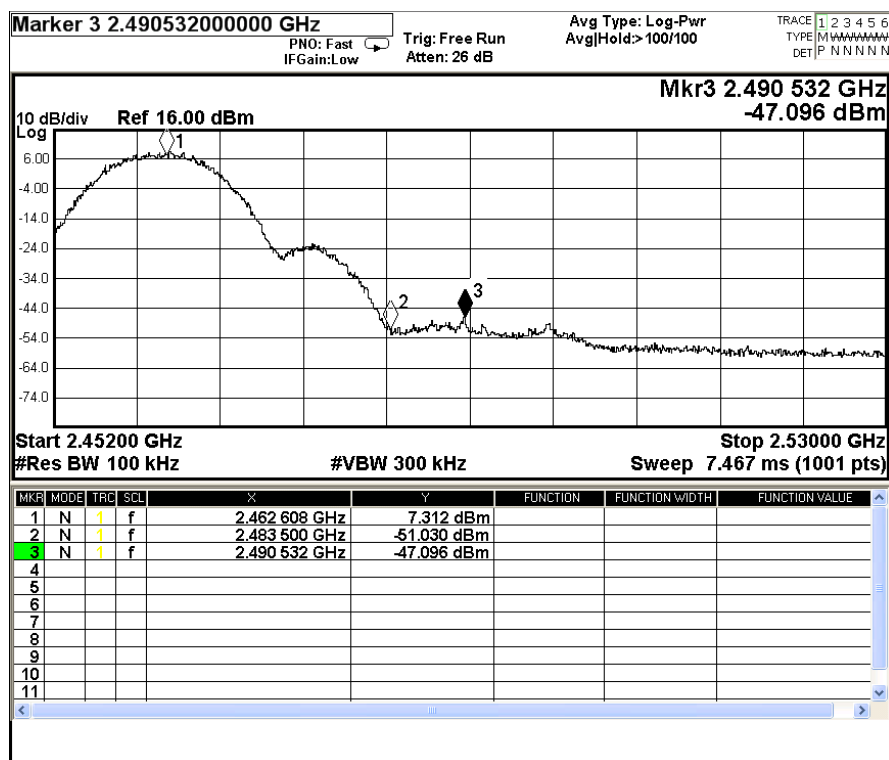
Date : 2026-04-27
No. : HMD26040001

Page 57 of 83

Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2483.5 – Highest Fundamental (2462)	7.312	-12.688	-47.096	Pass

Band-edge Compliance of RF Emissions – Highest (802.11b)



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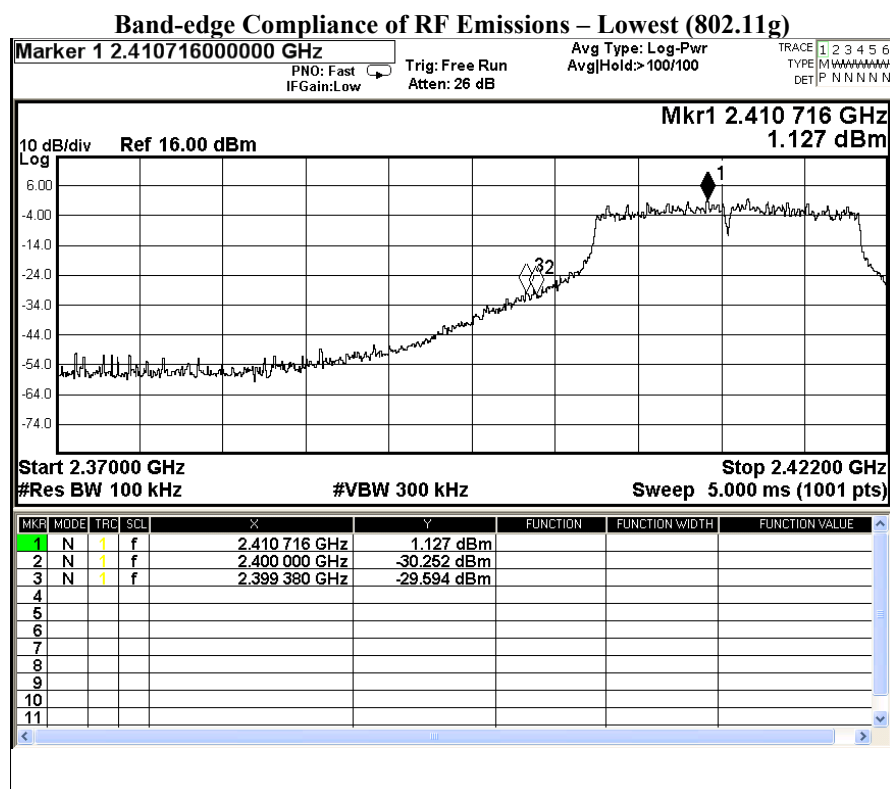
Test Report

Date : 2026-04-27
No. : HMD26040001

Page 58 of 83

Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2400 – Lowest Fundamental (2412)	1.127	-18.873	-29.594	Pass





Test Report

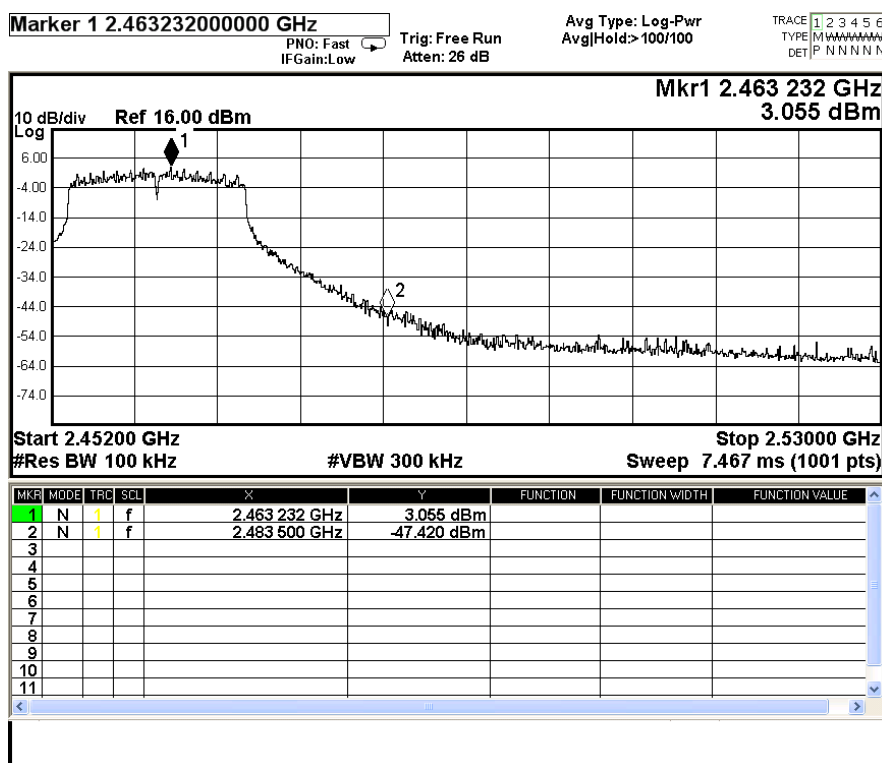
Date : 2026-04-27
No. : HMD26040001

Page 59 of 83

Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2483.5 – Highest Fundamental (2462)	3.055	-16.945	-47.420	Pass

Band-edge Compliance of RF Emissions – Highest (802.11g)



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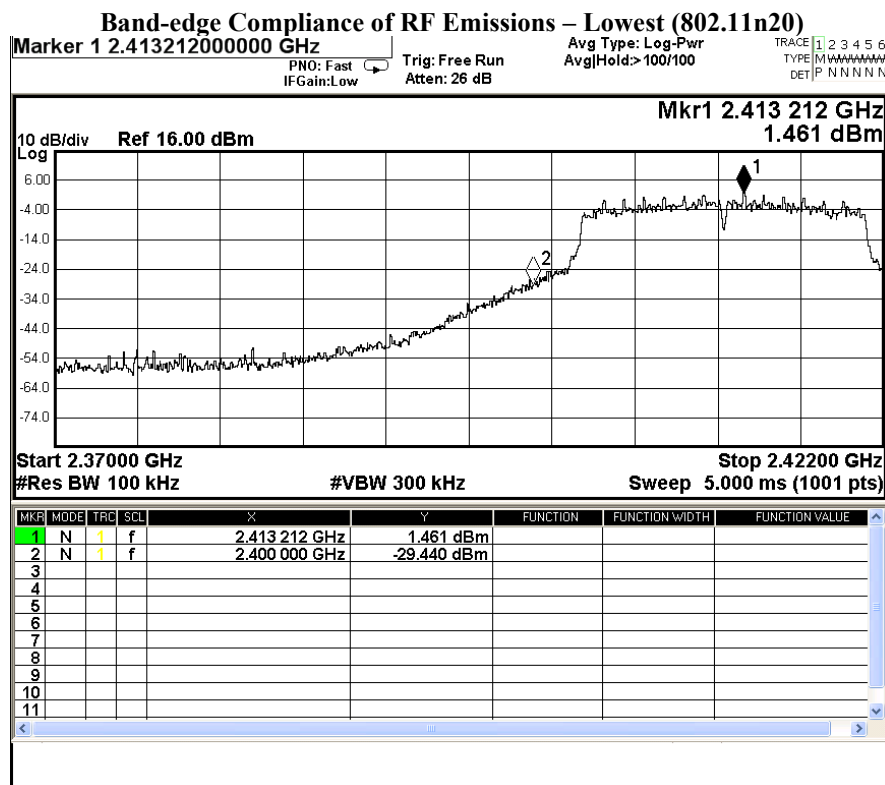
Test Report

Date : 2026-04-27
No. : HMD26040001

Page 60 of 83

Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2400 – Lowest Fundamental (2412)	1.461	-18.539	-29.440	Pass



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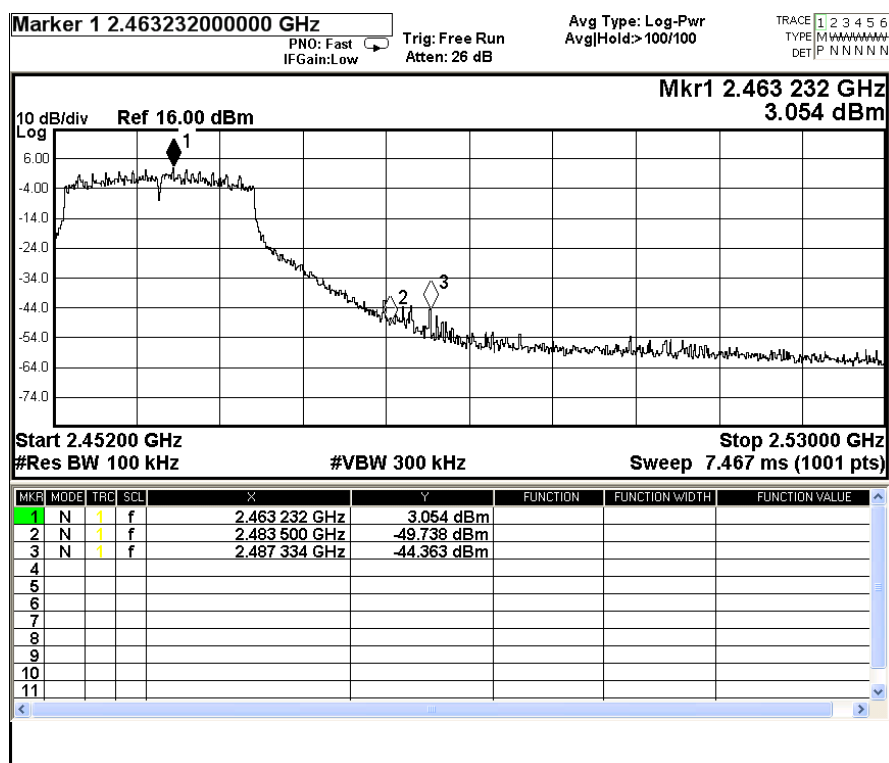
Date : 2026-04-27
No. : HMD26040001

Page 61 of 83

Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2483.5 – Highest Fundamental (2462)	3.054	-16.946	-44.363	Pass

Band-edge Compliance of RF Emissions – Highest (802.11n20)



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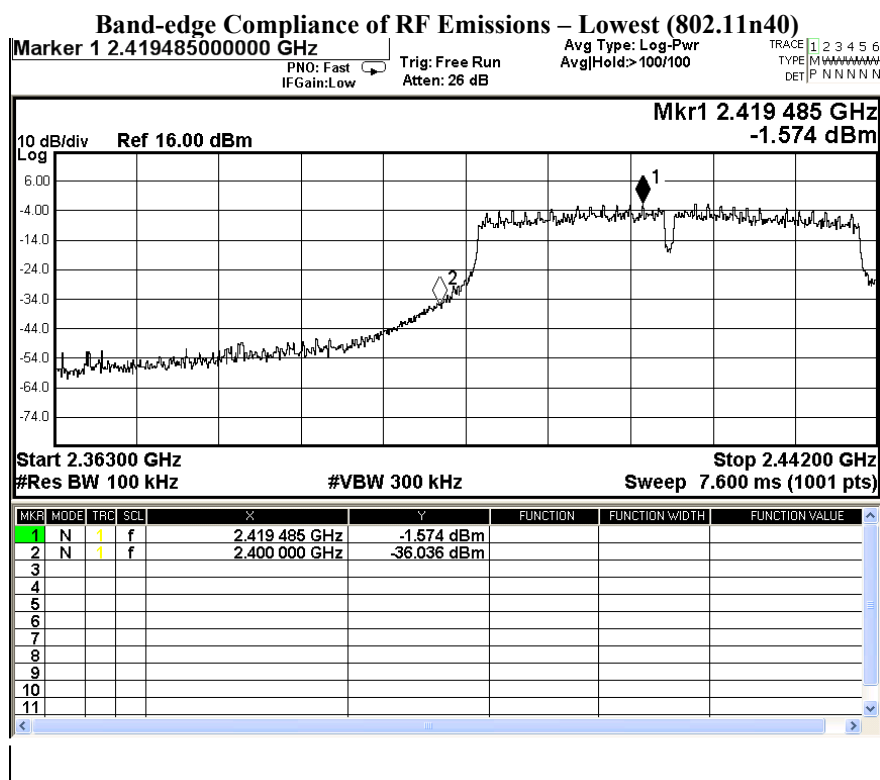
Date : 2026-04-27

Page 62 of 83

No. : HMD26040001

Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2400 – Lowest Fundamental (2422)	-1.574	-21.574	-36.036	Pass



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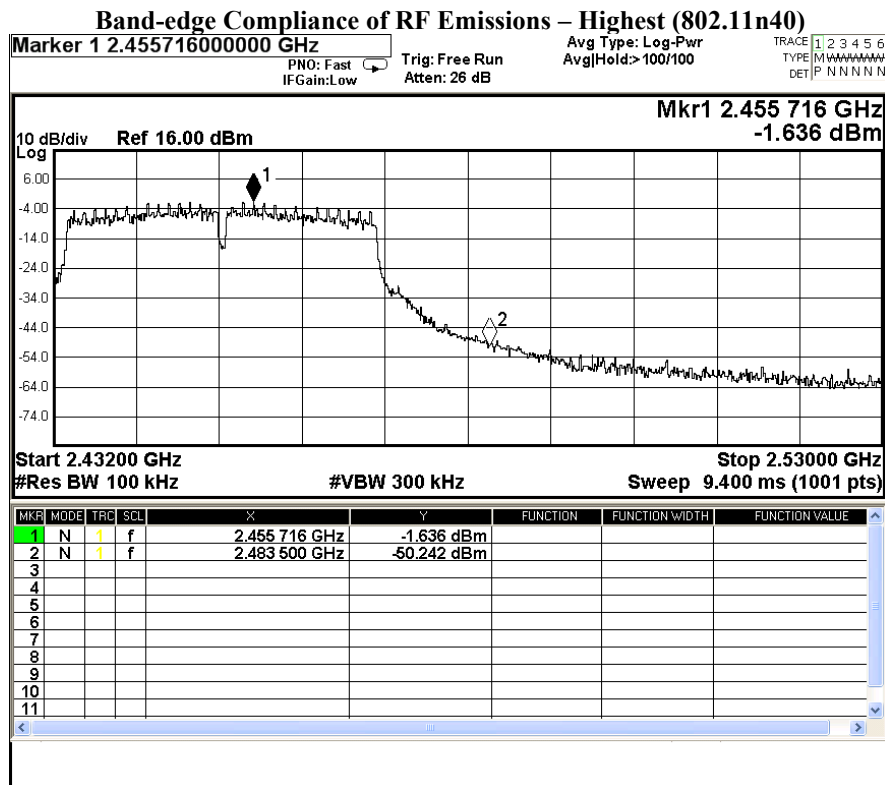
Date : 2026-04-27

Page 63 of 83

No. : HMD26040001

Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2483.5 – Highest Fundamental (2452)	-1.636	-21.636	-50.242	Pass



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No. : HMD26040001

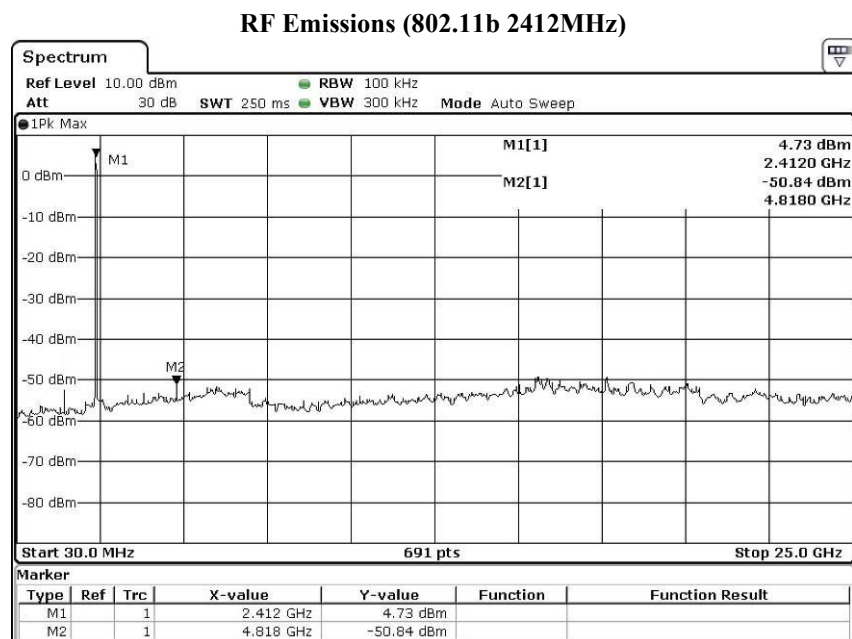
Page 64 of 83

RF Conducted Emissions Measurement:

Limit :

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required.

Remark: The worst-case measurement results were recorded in the test report
The following plots include cable losses :0.3dB (There is no Attenuator)



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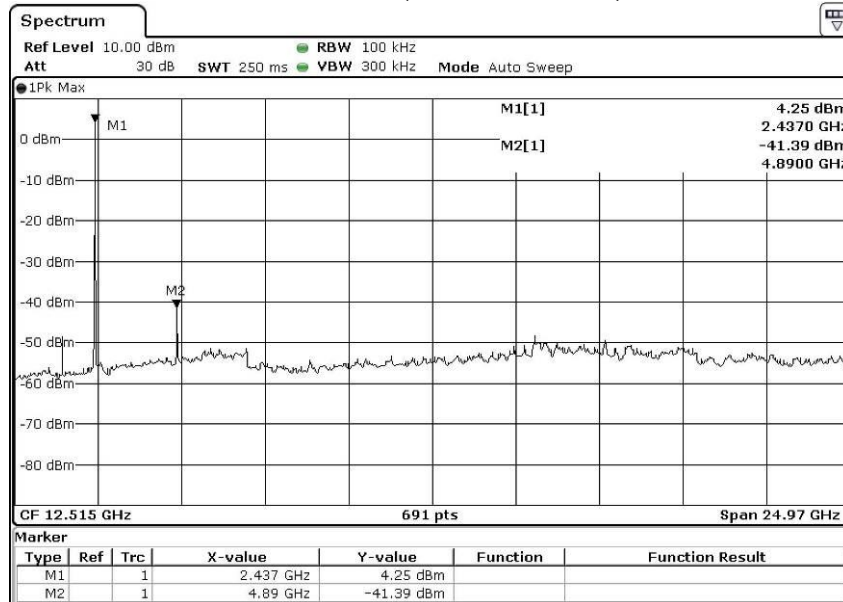


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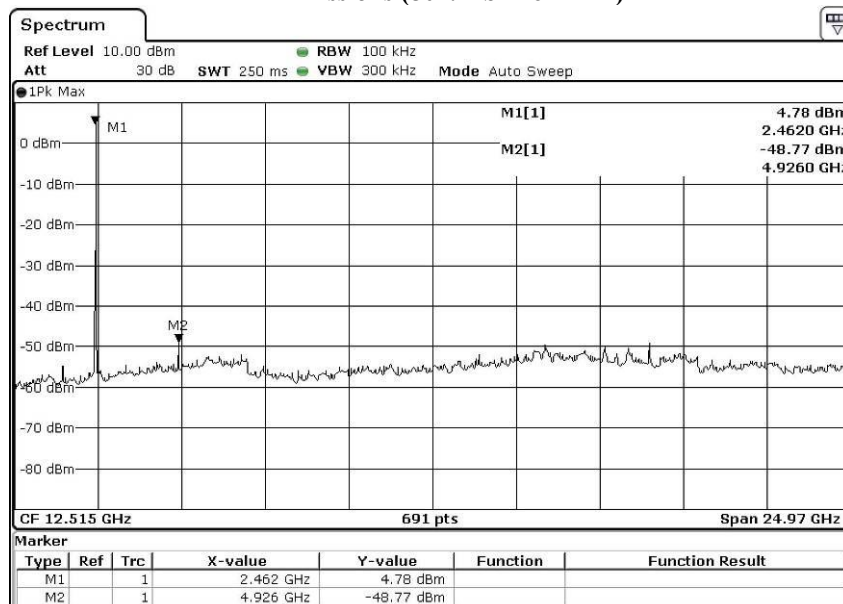
Date : 2026-04-27
No. : HMD26040001

Page 65 of 83

RF Emissions (802.11b 2437MHz)



RF Emissions (802.11b 2462MHz)



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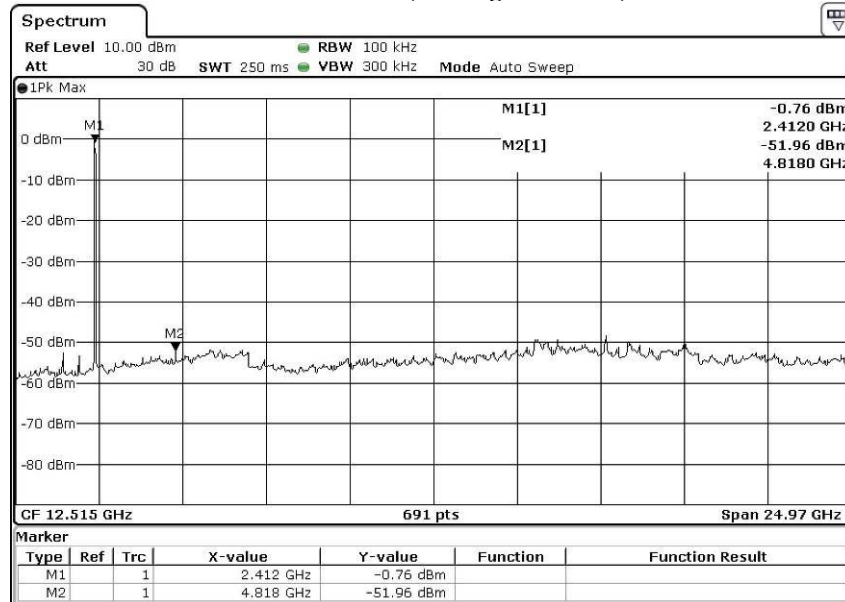


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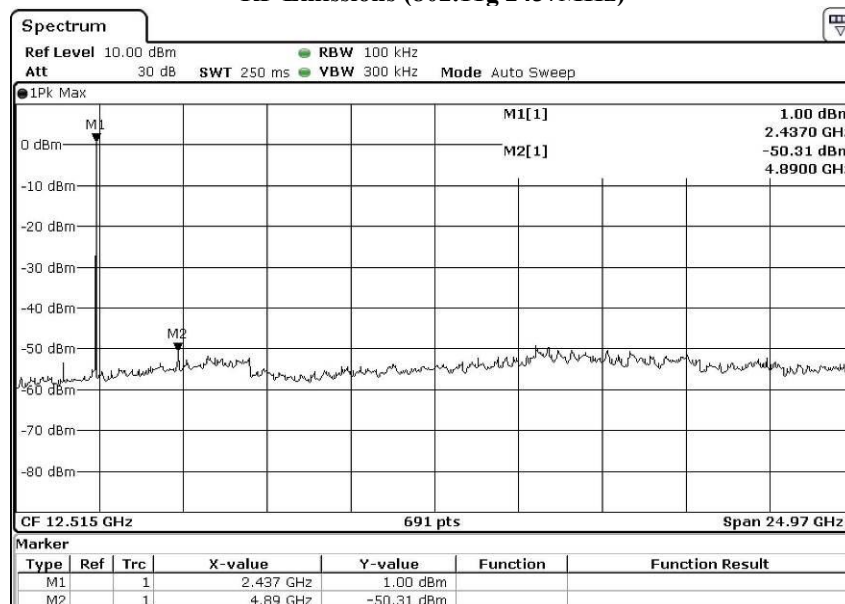
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No. : HMD26040001

Page 66 of 83

RF Emissions (802.11g 2412MHz)



RF Emissions (802.11g 2437MHz)



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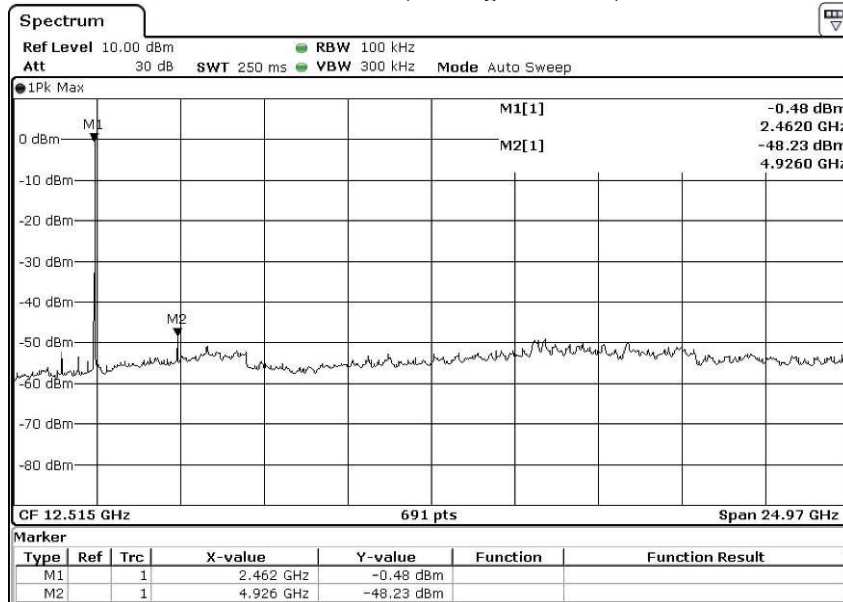


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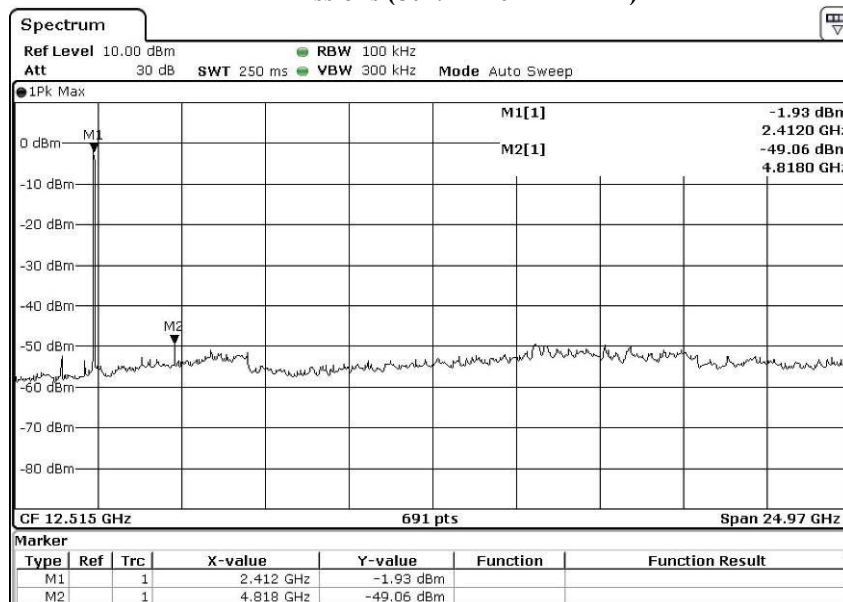
Date : 2026-04-27
No. : HMD26040001

Page 67 of 83

RF Emissions (802.11g 2462MHz)



RF Emissions (802.11n20 2412MHz)



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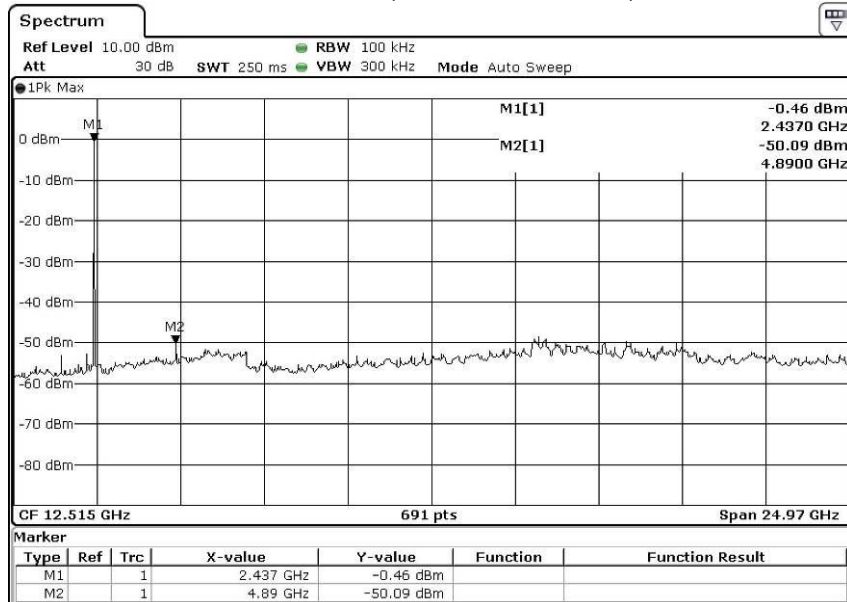


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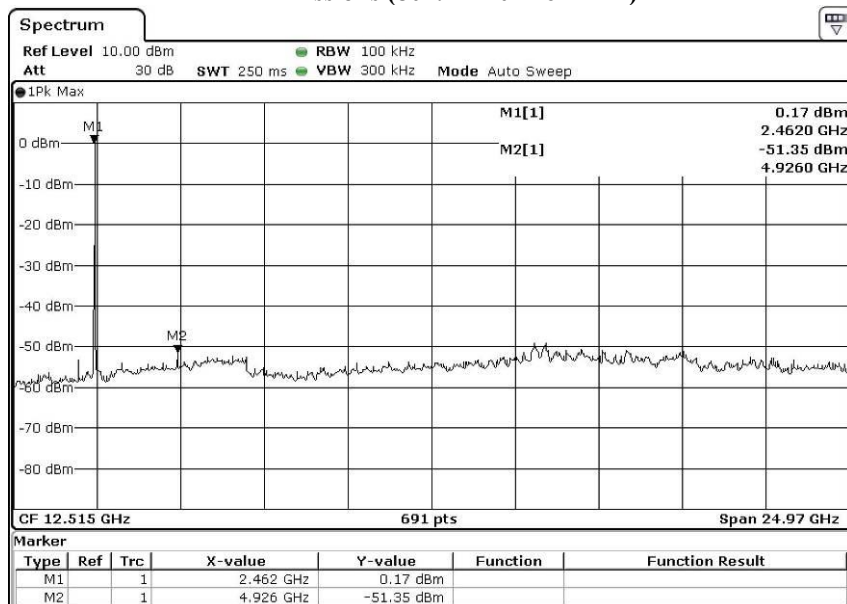
Date : 2026-04-27
No. : HMD26040001

Page 68 of 83

RF Emissions (802.11n20 2437MHz)



RF Emissions (802.11n20 2462MHz)



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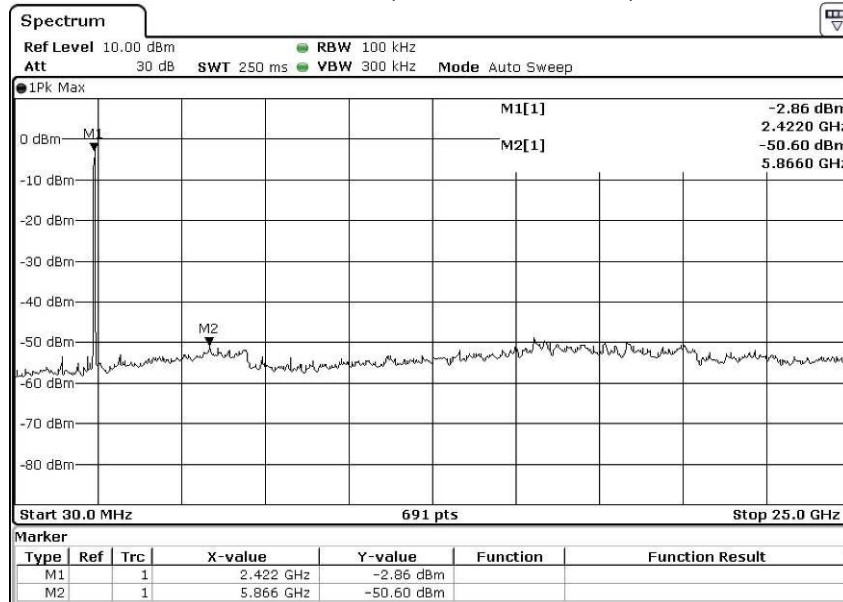


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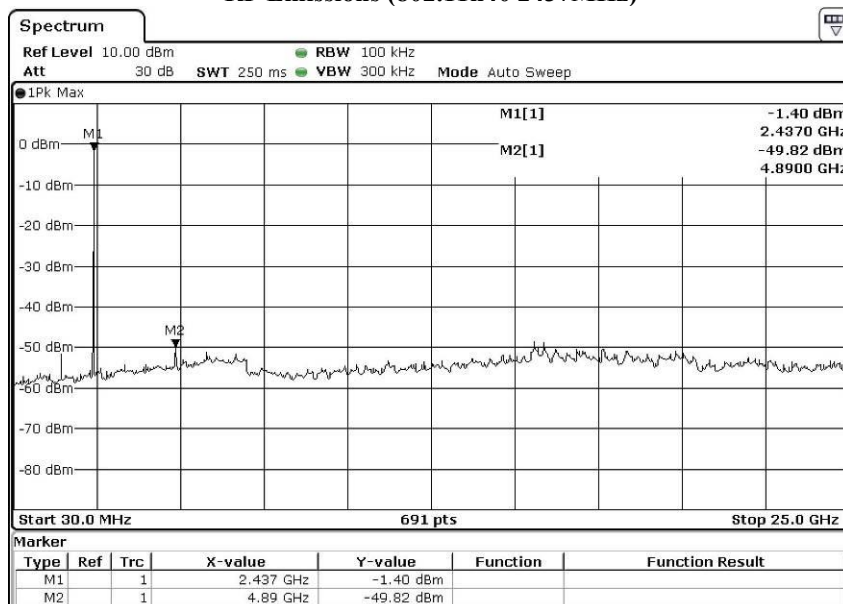
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No. : HMD26040001

Page 69 of 83

RF Emissions (802.11n40 2422MHz)



RF Emissions (802.11n40 2437MHz)



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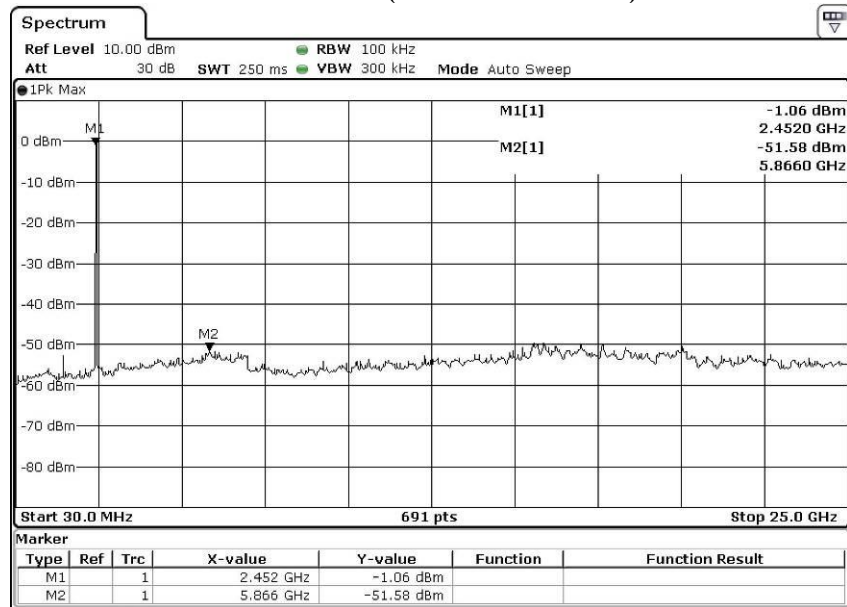


Test Report

Date : 2026-04-27
No. : HMD26040001

Page 70 of 83

RF Emissions (802.11n40 2452MHz)



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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 71 of 83

3.1.7 Antenna Requirement

Ambient Temperature: 25°C

Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

Test Requirements: § 15.203

Test Specification:

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 shall be considered sufficient to comply with the provisions of this section. 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.

Test Results:

This is built-in FPC antenna. There is no external antenna, the antenna gain = 2.0dBi. User is unable to remove or changed the Antenna.

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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 72 of 83

Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM217	ELECTRIC POWERED TURNABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3	--	2024-04-18	2029-04-18
EM356	ANTENNA POSITIONING TOWER	ETS-LINDGREN	2171B	00150346	N/A	N/A
EM293	SPECTRUM ANALYZER	AGILENT TECHNOLOGIES	N9020A	MY50510152	2024-11-07	2026-11-07
EM363	SIGNAL ANALYZER(10HZ- 40GHZ)	R & S	FSV40	101231	2026-01-15	2028-01-15
EM299	BROADBAND HORN ANTENNA	ETS-LINDGREN	3115	00114120	2025-07-08	2028-07-08
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2025-07-14	2027-07-14
EM301	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-10	00130988	2025-07-14	2027-07-14
EM353	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2025-02-12	2027-02-12
EM355	BICONILOG ANTENNA	ETS-LINDGREN	3143B	00094856	2025-01-02	2027-01-02
EM200	DUAL CHANNEL POWER METER	R & S	NRVD	100592	2023-08-02	2026-08-02

Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM232	LISN	SCHAFFNER	NNB41	04/100082	2025-03-20	2026-03-20
EM181	EMI TEST RECEIVER	R & S	ESIB7	100072	2025-04-24	2026-04-24
EM179	IMPULSE LIMITER	R & S	ESH3-Z2	357.8810.52/54	2025-03-17	2027-03-17
EM154	SHIELDING ROOM	SIEMENS MATSUSHITA COMPONENTS	N/A	803-740-057- 99A	2022-02-06	2027-02-06
N/A	MEASUREMENT AND EVALUATION SOFTWARE	ROHDE & SCHWARZ	BSIB-K1	V1.20	N/A	N/A

Remarks:-

CM Corrective Maintenance
N/A Not Applicable
TBD To Be Determined

Test Report

Date : 2026-04-27
No. : HMD26040001

Page 73 of 83

Appendix B Photographs of EUT

View of the product



View of the product



Test Report

Date : 2026-04-27
No. : HMD26040001

Page 74 of 83

Photographs of EUT

View of the product



View of the product



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Test Report

Date : 2026-04-27
No. : HMD26040001

Page 75 of 83

Photographs of EUT

Inner Circuit Top View



Inner Circuit Bottom View



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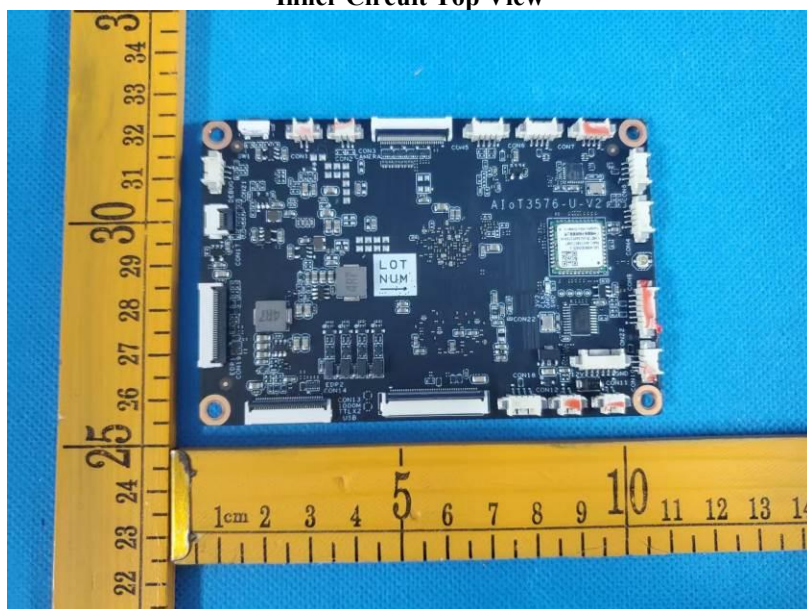
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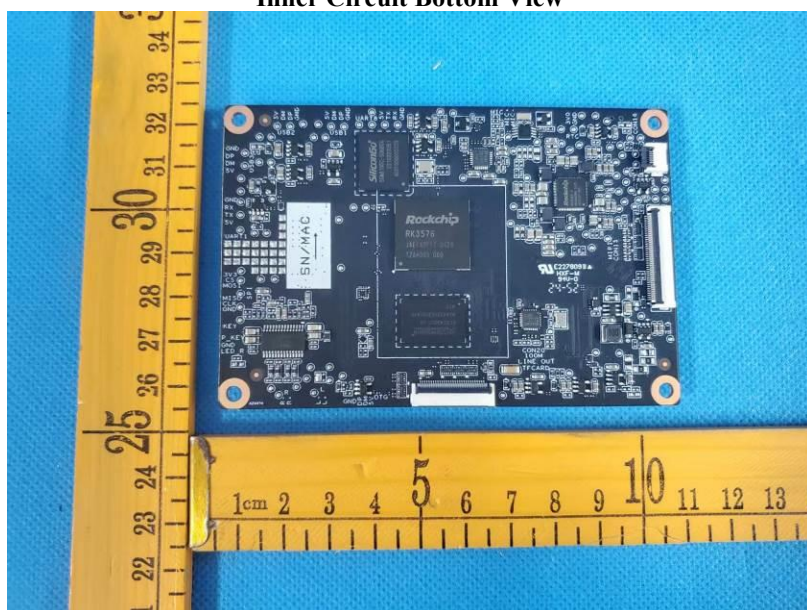
Page 76 of 83

Photographs of EUT

Inner Circuit Top View



Inner Circuit Bottom View



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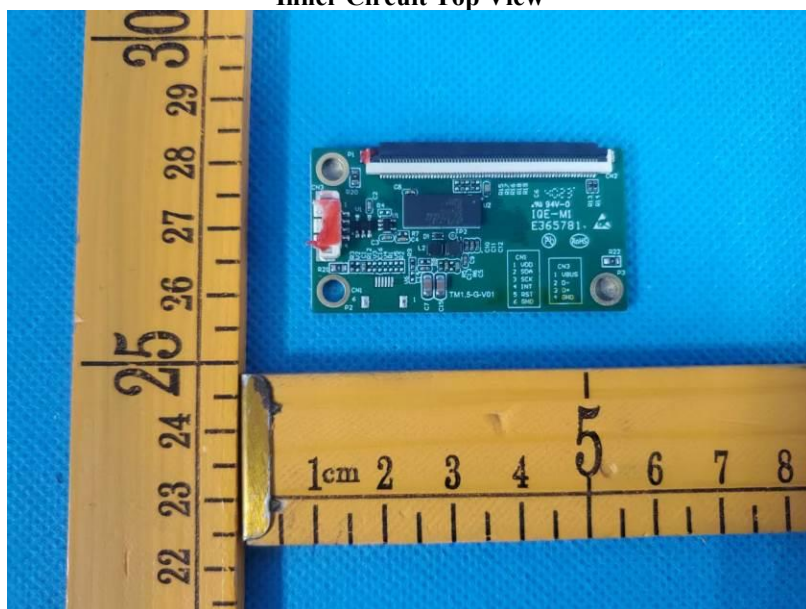
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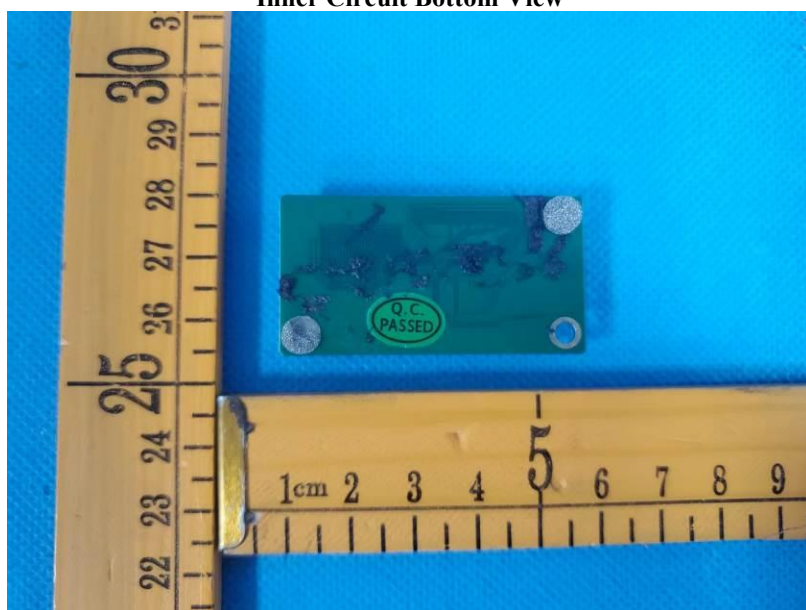
Page 77 of 83

Photographs of EUT

Inner Circuit Top View



Inner Circuit Bottom View



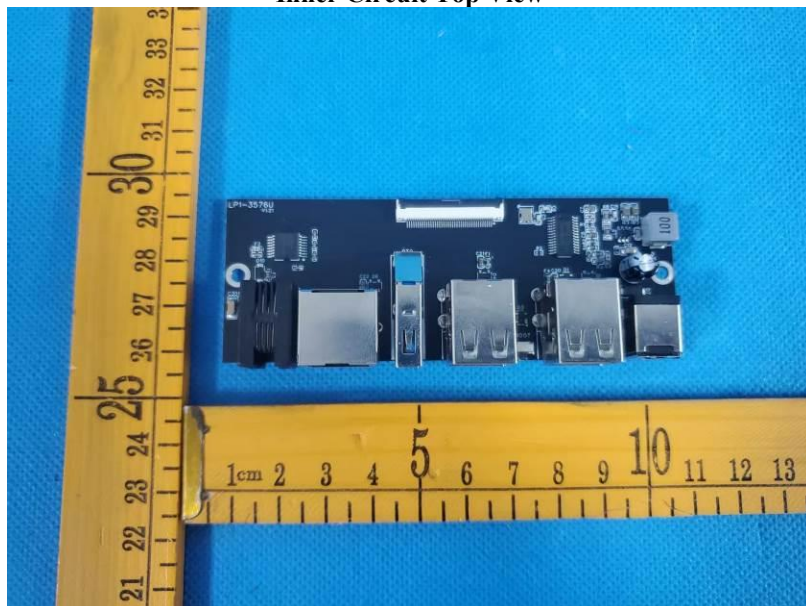
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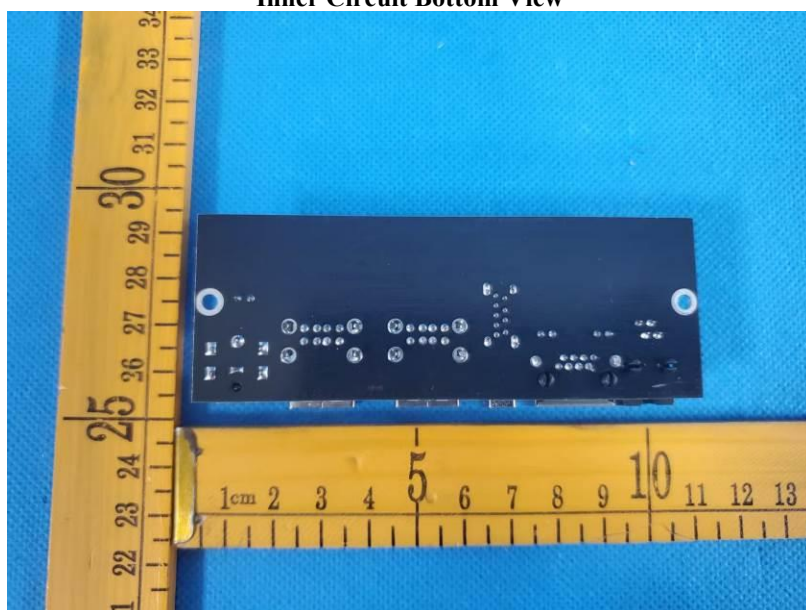
Page 78 of 83

Photographs of EUT

Inner Circuit Top View



Inner Circuit Bottom View



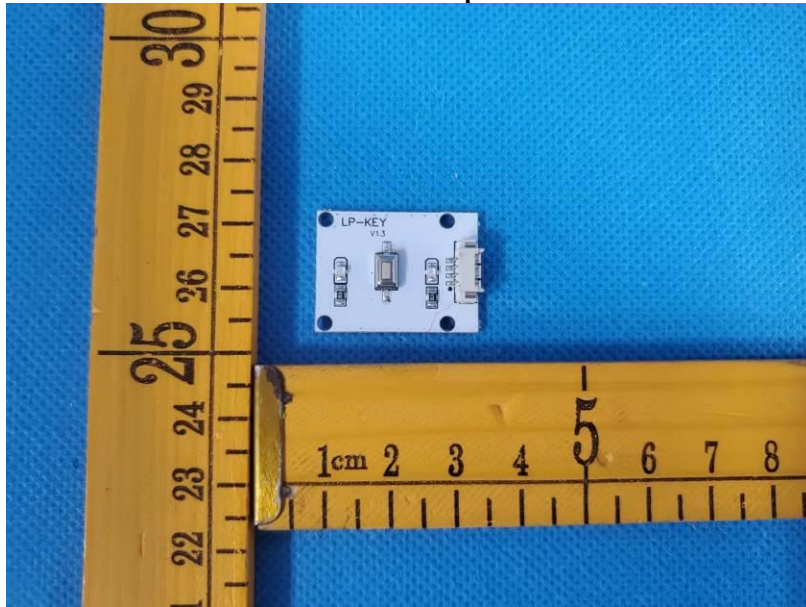
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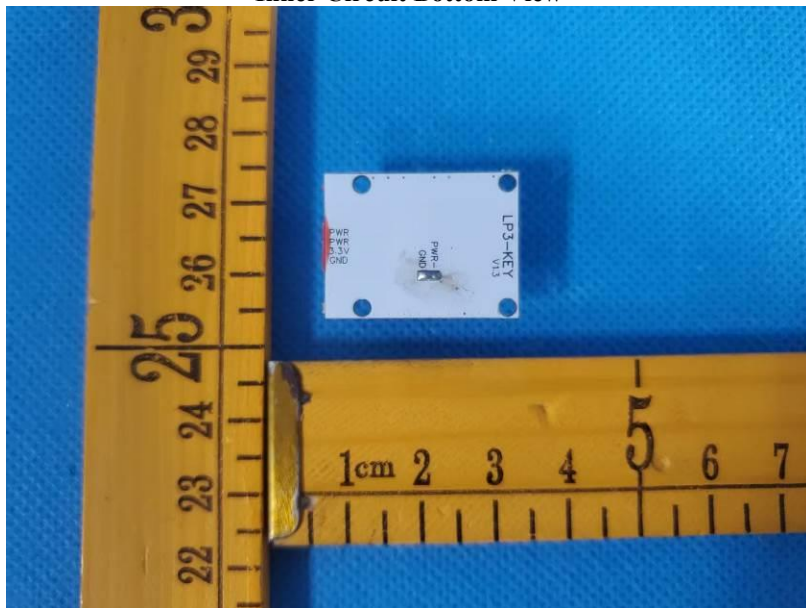
Page 79 of 83

Photographs of EUT

Inner Circuit Top View



Inner Circuit Bottom View



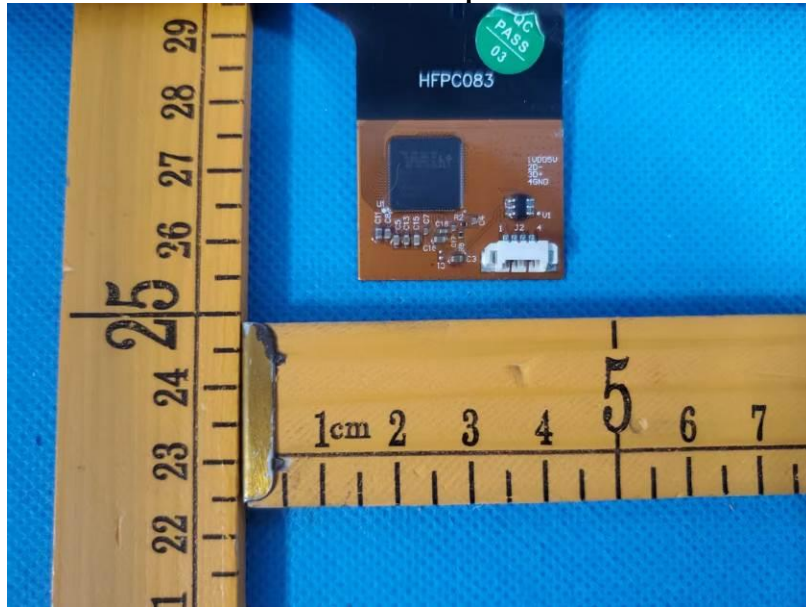
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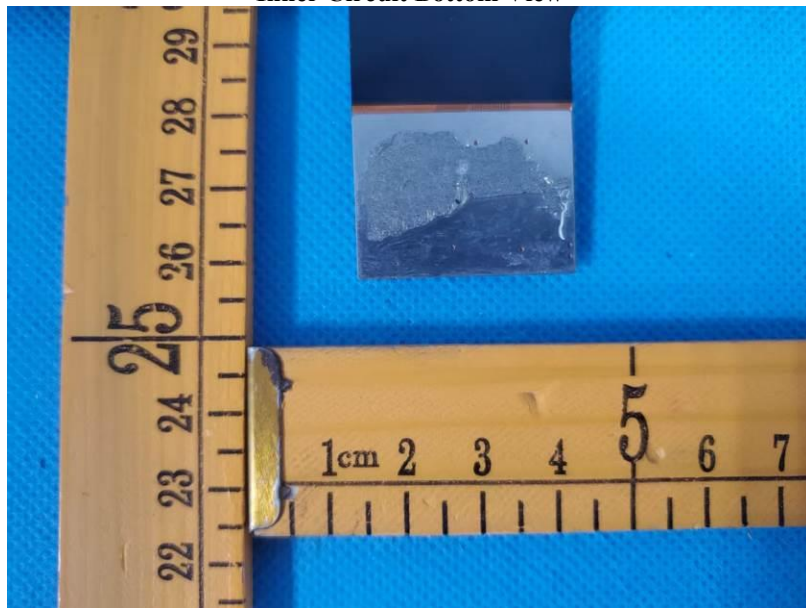
Page 80 of 83

Photographs of EUT

Inner Circuit Top View



Inner Circuit Bottom View



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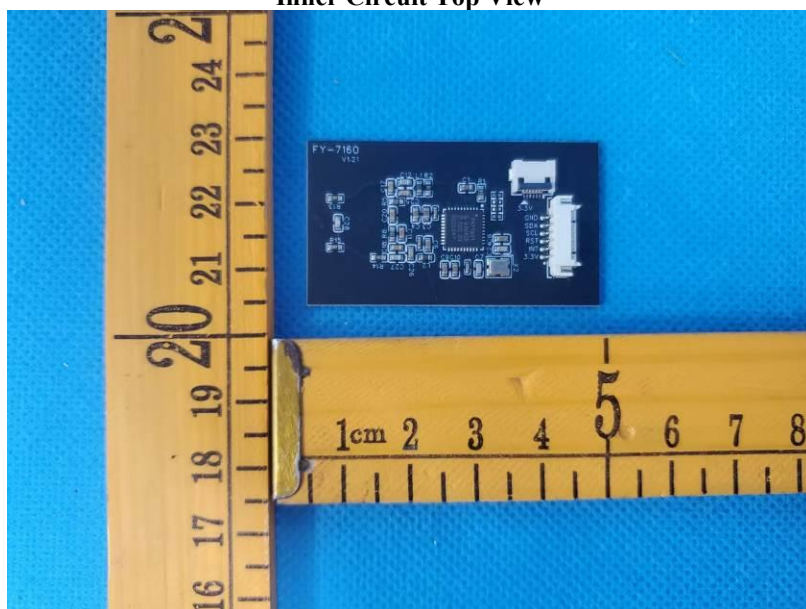
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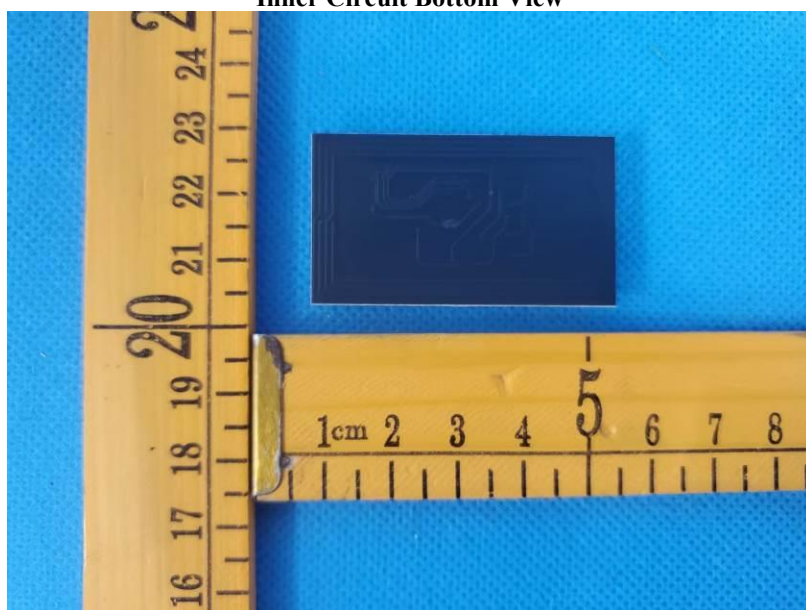
Page 81 of 83

Photographs of EUT

Inner Circuit Top View



Inner Circuit Bottom View



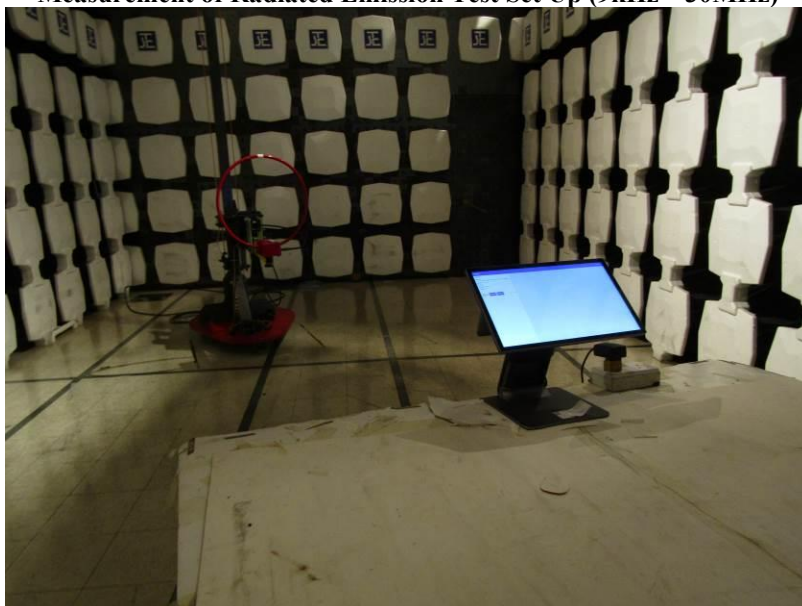
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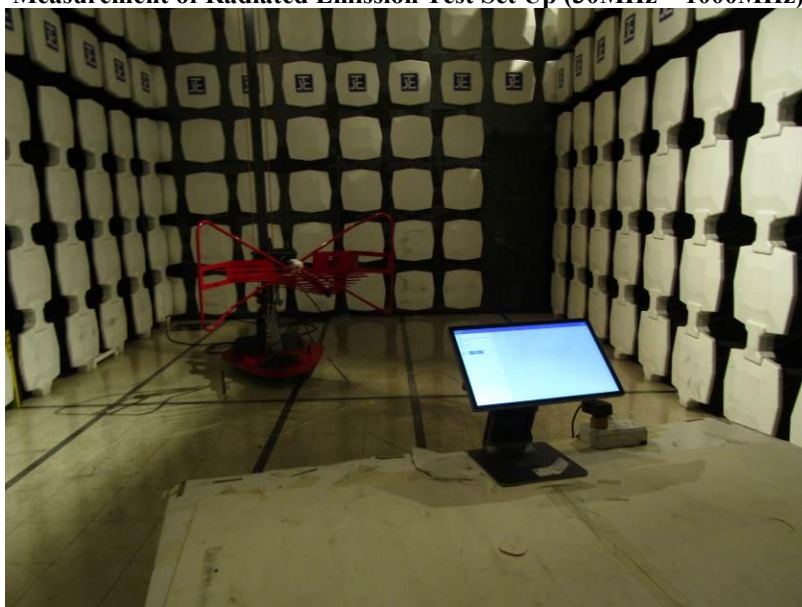
Page 82 of 83

Photographs of EUT

Measurement of Radiated Emission Test Set Up (9kHz – 30MHz)



Measurement of Radiated Emission Test Set Up (30MHz – 1000MHz)



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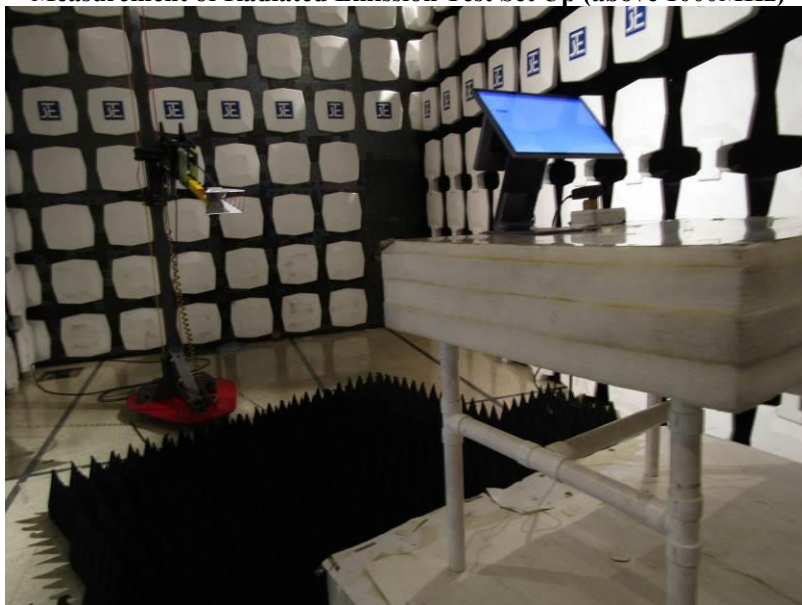
Test Report

Date : 2026-04-27
No. : HMD26040001

Page 83 of 83

Photographs of EUT

Measurement of Radiated Emission Test Set Up (above 1000MHz)



Measurement of Conducted Emission Test Set Up



******* End of Test Report *******

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