



Report No.: FR380306C

FCC RADIO TEST REPORT

FCC ID : A4RG8HHN

Equipment : Phone Model Name : G8HHN

Applicant : Google LLC

1600 Amphitheatre Parkway,

Mountain View, California, 94043 USA

Standard : FCC Part 15 Subpart C §15.247

The product was received on Jul. 12, 2023 and testing was performed from Jul. 12, 2023 to Dec. 01, 2023. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

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History of this test report

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Report No.	Version	Description	Issue Date
FR380306C	01	Initial issue of report	Nov. 14, 2023
FR380306C	02	 Revise Appendix A Revise Appendix C Revise Appendix D This report is an updated version, replacing the report issued on Nov. 14, 2023. 	Dec. 05, 2023
FR380306C	03	Revise 2 Test Configuration of Equipment Under Test This report is an updated version, replacing the report issued on Dec. 05, 2023.	Dec. 06, 2023

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	247(e) Power Spectral Density		-
		Conducted Band Edges		-
3.4	15.247(d)	Conducted Spurious Emission		-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	1.74 dB under the limit at 2483.76 MHz
3.6	15.207	AC Conducted Emission	Pass	18.11 dB under the limit at 0.43 MHz
3.7	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the
 regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who
 shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken
 into account.
- 2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: William Chen Report Producer: Rebecca Wu

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1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature

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General Specs

GSM/WCDMA/LTE/5G NR, Bluetooth, BLE, BLE channel sounding, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11a/ax, NFC, WPC Rx and GNSS Rx.

Antenna Type

WLAN:

<Ant.3>: IFA Antenna <Ant.4>: ILA Antenna

EUT Information List			
S/N Performed Test Item			
38011JEKB00248	RF Conducted Measurement		
36161JEKB08227 Radiated Spurious Emission			
38031JEKB01575 Conducted Emission			

Antenna information			
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	Ant.3: -1.2 Ant.4: -1.2	

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

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1.1.1 Antenna Directional Gain

<For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \le 4$.

 G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

Array Gain = 10 log(NANT/NSS) dB.

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^{2}}{N_{ANT}} \right]$$

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where

Each antenna is driven by no more than one spatial stream;

 $N_{\rm SS}$ = the number of independent spatial streams of data;

 N_{ANT} = the total number of antennas

 $g_{j,k} = 10^{G_k/20}$ if the *k*th antenna is being fed by spatial stream *j*, or zero if it is not; G_k is the gain in dBi of the kth antenna.

The directional gain "DG" is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 3	Ant 4	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4GHz	-1.20	-1.20	-1.20	1.81	0.00	0.00

Calculation example:

If a device has two antenna, G_{ANT3}= -1.2dBi; G_{ANT4}=-1.2dBi

Directional gain of power measurement = max(-1.2, -1.2) + 0 = -1.2 dBi

Directional gain of PSD derived from formula which is

 $10 \times \log \{ \{ [10^{\circ} (-1.20 \text{ dBi} / 20) + 10^{\circ} (-1.20 \text{ dBi} / 20)]^{\circ} 2 \} / 2 \}$

= 1.81 dBi

Power limit reduction = Composite gain - 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain - 6dBi, (min = 0)

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1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
1001 0110 1101	TH05-HY, CO07-HY, 03CH22-HY

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Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

- 1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.

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2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report, and the worst mode of radiated spurious emissions is X plane, and recorded in this report.

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b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
	1	2412	8	2447
	2	2417	9	2452
	3	2422	10	2457
2400-2483.5 MHz	4	2427	11	2462
	5	2432	12	2467
	6	2437	13	2472
	7	2442		

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2.2 Test Mode

This device support 26/52/106/242-tone RU.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

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The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The 242-tone RU is covered by 20MHz channel.

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

The power for 802.11n and 802.11ac mode is smaller than 802.11ax mode, so all other conducted and radiated test is covered by 802.11ax mode.

The final test modes include the worst data rates for each modulation shown in the table below.

Single Antenna

Modulation	Data Rate	
802.11b	1 Mbps	

MIMO Antenna

Modulation	Data Rate	
802.11g	6 Mbps	
802.11n HT20 (Covered by HE20)	MCS0	
802.11ac VHT20 (Covered by HE20)	MCS0	
802.11ax HE20	MCS0	

	Test Cases				
AC	Mode 1 :5G NR Band 5 Link + WLAN (2.4GHz) Link + Bluetooth on + NFC on + USB				
Conducted	Cable 3 (Charging from AC Adapter 2) + Handset mode + Battery < 50%				
Emission	Cable 3 (Charging non Ac Adapter 2) + Handset mode + Battery < 30%				
Emission	Cable 3 (Charging nom AC Adapter 2) + Handset mode + Battery < 50 %				

Remark

- 1. For Radiated Test Cases, the tests were performed with AC Adapter 1 and USB Cable 3.
- 2. During the preliminary test, both charging modes (Adapter mode and WPT Charging mode) were verified. It is determined that the adaptor mode is the worst case for official test.

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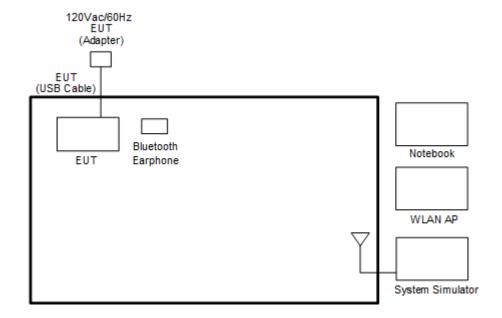
Ch #	2400-2483.5 MHz			
Ch. #	802.11b	802.11g	802.11ax HE20	
Low	01	01	01	
Low	06	06	06	
Middle	11	11	11	
High	12	12	12	
High	13	13	13	

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Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

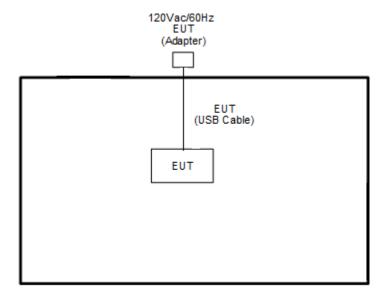
2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



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<WLAN Tx Mode>



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2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY700A2029	N/A	N/A
3.	WLAN AP	netgear	RAXE500	PY320300508	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude E3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

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2.5 EUT Operation Test Setup

The RF test items, utility "CMD 1.17.11461.0" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

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2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$

= 4.2 + 10 = 14.2 (dB)

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3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

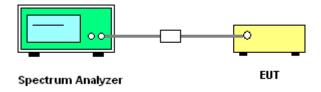
3.1.3 Test Procedures

- 1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
- 2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.

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- 3. Set the maximum power setting and enable the EUT to transmit continuously.
- 4. 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.
- For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set
 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
- 6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

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3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna with directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

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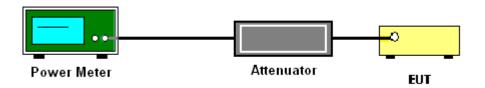
3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

- For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
- 2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
- 3. Set the maximum power setting and enable the EUT to transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.
- 5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

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3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

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3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

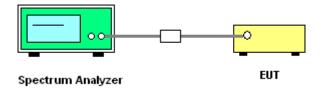
3.3.3 Test Procedures

- 1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
- 2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
- 3. Set the maximum power setting and enable the EUT to transmit continuously.
- 4. 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)
- 5. 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.
- 6. Measure and record the results in the test report.
- 7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (c): Measure and add 10 log(N_{ANT}) dB.

With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity $10 \log(N_{ANT})$ dB is added to each spectrum value before comparing to the emission limit. The addition of $10 \log(N_{ANT})$ dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{ANT}$ th of the PSD limit .

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

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3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

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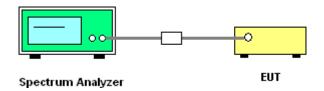
3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedures

- The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
- 2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
- 3. Set the maximum power setting and enable the EUT to transmit continuously.
- 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Please refer to Appendix A.

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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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Frequency	Field Strength	Measurement Distance	
(MHz)	(microvolts/meter)	(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	

3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

- 1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
- 2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
- 3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
- 4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".

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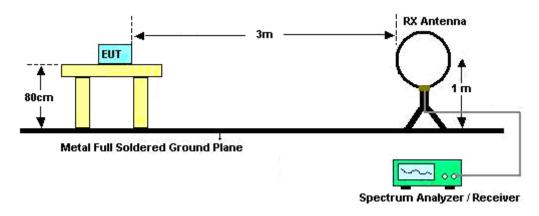
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".

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- 8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3 MHz for $f \ge 1$ GHz for peak measurement. For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

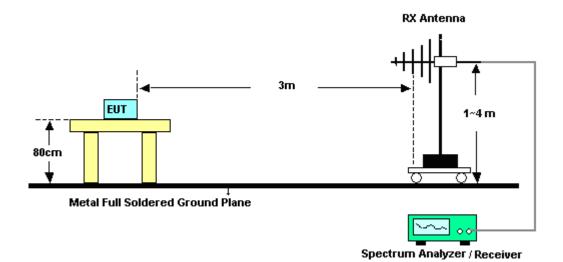
3.5.4 Test Setup

For radiated emissions below 30MHz



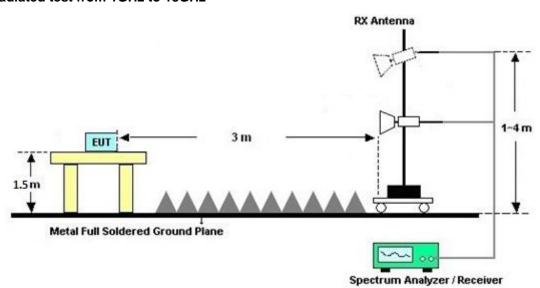
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For radiated emissions from 30MHz to 1GHz



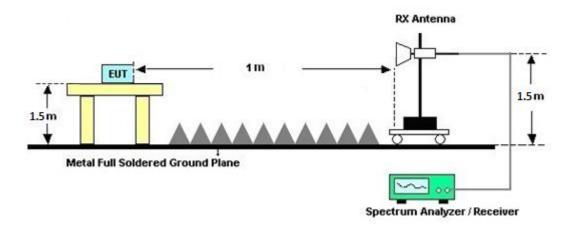
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For radiated test from 1GHz to 18GHz



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For radiated test above 18GHz



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3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

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3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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Frequency of Emission	Conducted Limit (dBµV)				
(MHz)	Quasi-Peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

^{*}Decreases with the logarithm of the frequency.

3.6.2 Measuring Instruments

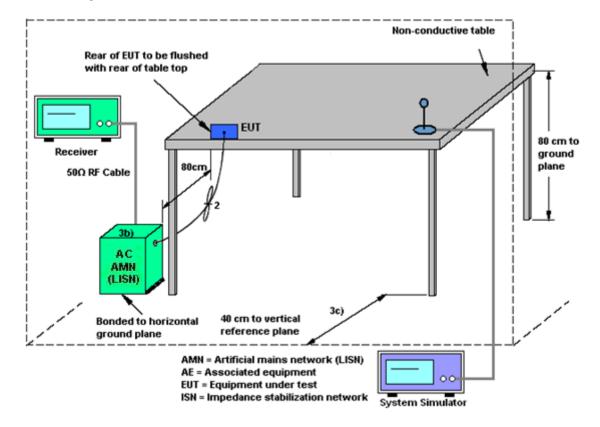
Please refer to the measuring equipment list in this test report.

3.6.3 Test Procedures

- 1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
- 6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
- 7. The frequency range from 150 kHz to 30 MHz is scanned.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

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3.6.4 Test Setup



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3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

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3.7 Antenna Requirements

3.7.1 Standard Applicable

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 rule.

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3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

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4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9kHz~30MHz	Feb. 28, 2023	Jul. 26, 2023~ Dec. 01, 2023	Feb. 27, 2024	Radiation (03CH22-HY)
Bilog Antenna with 6dB	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63304 & 002	30MHz~1GHz	Oct. 04, 2022	Jul. 26, 2023~ Oct. 02, 2023	Oct. 03, 2023	Radiation (03CH22-HY)
Bilog Antenna with 6dB	TESEQ & WOKEN	CBL 6111D & 00800N1D01N -06	41912 & 05	30MHz~1GHz	Feb. 05, 2023	Oct. 03, 2023~ Dec. 01, 2023	Feb. 04, 2024	Radiation (03CH22-HY)
Amplifier	SONOMA	310N	421581	N/A	Jul. 15, 2023	Jul. 26, 2023~ Dec. 01, 2023	Jul. 14, 2024	Radiation (03CH22-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C04A18E N	1GHz~18GHz	Jul. 12, 2023	Jul. 26, 2023~ Dec. 01, 2023	Jul. 11, 2024	Radiation (03CH22-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1223	18GHz-40GHz	Jul. 10, 2023	Jul. 26, 2023~ Dec. 01, 2023	Jul. 09, 2024	Radiation (03CH22-HY)
Amplifier	EMEC	EM01G18GA	060877	N/A	Sep. 29, 2022	Jul. 26, 2023~ Sep. 27, 2023	Sep. 28, 2023	Radiation (03CH22-HY)
Amplifier	EMEC	EM01G18GA	060877	N/A	Sep. 28, 2023	Sep. 28, 2023~ Dec. 01, 2023	Sep. 27, 2024	Radiation (03CH22-HY)
Preamplifier	EMEC	EM18G40G	060801	18-40GHz	Jun. 27, 2023	Jul. 26, 2023~ Dec. 01, 2023	Jun. 26, 2024	Radiation (03CH22-HY)
Signal Analyzer	Keysight	N9010B	MY60241058	10Hz~44GHz	Jul. 06, 2023	Jul. 26, 2023~ Dec. 01, 2023	Jul. 05, 2024	Radiation (03CH22-HY)
Hygrometer	TECPEL	DTM-303A	TP211559	N/A	Nov. 17, 2022	Jul. 26, 2023~ Nov. 15, 2023	Nov. 16, 2023	Radiation (03CH22-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 30, 2023	Nov. 16, 2023~ Dec. 01, 2023	Oct. 29, 2024	Radiation (03CH22-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jul. 26, 2023~ Dec. 01, 2023	N/A	Radiation (03CH22-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jul. 26, 2023~ Dec. 01, 2023	N/A	Radiation (03CH22-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jul. 26, 2023~ Dec. 01, 2023	N/A	Radiation (03CH22-HY)
Software	Audix	E3 6.09824_2019 122	RK-002347	N/A	N/A	Jul. 26, 2023~ Dec. 01, 2023	N/A	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 07, 2023	Jul. 26, 2023~ Dec. 01, 2023	Mar. 06, 2024	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804390/2,804 611/2,804615/ 2	N/A	Oct. 25, 2022	Jul. 26, 2023~ Oct. 23, 2023	Oct. 24, 2023	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804390/2,804 611/2,804615/ 2	N/A	Oct. 24, 2023	Oct. 24, 2023~ Dec. 01, 2023	Oct. 23, 2024	Radiation (03CH22-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 17, 2022	Jul. 12, 2023~ Nov. 06, 2023	Nov. 16, 2023	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Nov. 07, 2023~ Dec. 01, 2023	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 12 (NO:113)	10MHz~6GHz	Dec. 13, 2022	Jul. 12, 2023~ Dec. 01, 2023	Dec. 12, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz ~ 40GHz	Dec. 26, 2022	Jul. 12, 2023~ Dec. 01, 2023	Dec. 25, 2023	Conducted (TH05-HY)

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Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Sep. 28, 2023	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Sep. 28, 2023	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Nov. 01, 2022	Sep. 28, 2023	Oct. 31, 2023	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 15, 2023	Sep. 28, 2023	Mar. 14, 2024	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 05, 2023	Sep. 28, 2023	Mar. 04, 2024	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 13, 2023	Sep. 28, 2023	Mar. 12, 2024	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI7	100724	9kHz~7GHz	Feb. 24, 2023	Sep. 28, 2023	Feb. 23, 2024	Conduction (CO07-HY)

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5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.46 dB
0195% (0 = 200(y))	

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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	E 02 4B
of 95% (U = 2Uc(y))	5.92 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence	4.42 dB
of 95% (U = 2Uc(y))	4.42 UB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence	4.40 dB
of 95% (U = 2Uc(y))	4.40 00

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence	5.38 dB
of 95% (U = 2Uc(y))	3.36 UB

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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Mina Liu, Hank Hsu, and Willy Chang	Temperature:	21~25	°C
Test Date:	2023/07/12 ~ 2023/12/01	Relative Humidity:	51~54	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

	2.4GHz Band Single Antenna									
Mod.	Data Rate	N⊤x	CH.	Freq. (MHz)	99% Occupied BW 6dB BW (MHz) (MHz)				6dB BW Limit (MHz)	Pass/Fail
					Ant4	Ant3	Ant4	Ant3		
11b	1Mbps	1	1	2412	13.04	13.14	8.10	8.58	0.50	Pass
11b	1Mbps	1	6	2437	13.14	13.14	9.08	8.12	0.50	Pass
11b	1Mbps	1	11	2462	13.14	13.09	8.58	8.08	0.50	Pass
11b	1Mbps	1	12	2467	13.09	13.04	8.10	8.06	0.50	Pass
11b	1Mbps	1	13	2472	12.99	13.09	8.12	8.12	0.50	Pass

	2.4GHz Band MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occi (MI	upied BW Hz)	6dB (MI	BW Hz)	6dB BW Limit (MHz)	Pass/Fail				
					Ant4	Ant3	Ant4	Ant3						
11g	6Mbps	2	1	2412	17.08	16.93	16.38	16.38	0.50	Pass				
11g	6Mbps	2	6	2437	17.73	17.03	16.38	16.40	0.50	Pass				
11g	6Mbps	2	11	2462	17.18	16.83	16.40	16.38	0.50	Pass				
11g	6Mbps	2	12	2467	17.08	16.78	16.38	16.38	0.50	Pass				
11g	6Mbps	2	13	2472	17.08	17.08 16.88 16.38 16.40 0.50								

TEST RESULTS DATA Average Output Power

	2.4GHz Band Single Antenna															
Mod.	lod. Data Rate N		CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	
11b	1Mbps	1	1	2412	20.80	20.75		30.00	30.00	-1.20	-1.20	19.60	19.55	36.00	36.00	Pass
11b	1Mbps	1	6	2437	20.60	20.95		30.00	30.00	-1.20	-1.20	19.40	19.75	36.00	36.00	Pass
11b	1Mbps	1	11	2462	20.80	20.85		30.00	30.00	-1.20	-1.20	19.60	19.65	36.00	36.00	Pass
11b	1Mbps	1	12	2467	20.80	20.85		30.00	30.00	-1.20	-1.20	19.60	19.65	36.00	36.00	Pass
11b	1Mbps	1	13	2472	20.60	20.95		30.00	30.00	-1.20	-1.20	19.40	19.75	36.00	36.00	Pass

	2.4GHz Band MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)		Average onducte Power (dBm)		Po Lir	ducted bwer DG imit (dBi)			EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant4	Ant3	SUM	Ant4	Ant3	Ant4 Ant3		Ant4	Ant3	Ant4	Ant3	
11g	6Mbps	2	1	2412	17.40	16.85	20.14	30	.00	-1.	20	18.	94	36	.00	Pass
11g	6Mbps	2	2	2417	18.80	18.65	21.74	30	.00	-1.	20	20.	54	36	.00	Pass
11g	6Mbps	2	6	2437	21.00	20.05	23.56	30	.00	-1.	20	22.	.36	36	.00	Pass
11g	6Mbps	2	10	2457	17.60	17.55	20.59	30	.00	-1.	20	19.	.39	36.00		Pass
11g	6Mbps	2	11	2462	15.80	16.45	19.15	30	.00	-1.	20	17.	.95	36	.00	Pass
11g	6Mbps	2	12	2467	12.00	12.45	15.24	30	.00	-1.	20	14.	.04	36	.00	Pass
11g	6Mbps	2	13	2472	3.90	3.95	6.94	30.00		-1.	20	5.	74	36	.00	Pass
HT20	MCS0	2	1	2412	17.70	17.55	20.64	30	.00	-1.	20	19.	44	36	.00	Pass
HT20	MCS0	2	2	2417	17.80	17.65	20.74	30	.00	-1.	20	19.	54	36	.00	Pass
HT20	MCS0	2	6	2437	19.90	19.25	22.60	30	.00	-1.	20	21.	40	36	.00	Pass
HT20	MCS0	2	10	2457	16.50	16.55	19.54	30	.00	-1.	20	18.	34	36	.00	Pass
HT20	MCS0	2	11	2462	15.20	15.85	18.55	30	.00	-1.	20	17.	.35	36	.00	Pass
HT20	MCS0	2	12	2467	11.80	12.35	15.09	30	.00	-1.	20	13.	.89	36	.00	Pass
HT20	MCS0	2	13	2472	5.20	5.45	8.34	30	.00	-1.	20	7.	14	36	.00	Pass
VHT20	MCS0	2	1	2412	17.70	17.55	20.64	30	.00	-1.	20	19.	44	36	.00	Pass
VHT20	MCS0	2	2	2417	17.80	17.65	20.74	30	.00	-1.	20	19.	54	36	.00	Pass
VHT20	MCS0	2	6	2437	19.90	19.25	22.60	30	.00	-1.	20	21.	40	36	.00	Pass
VHT20	MCS0	2	10	2457	16.50	16.55	19.54	30	.00	-1.	20	18.	34	36	.00	Pass
VHT20	MCS0	2	11	2462	15.20	15.85	18.55	30	.00	-1.	-1.20 17.35		35	36	.00	Pass
VHT20	MCS0	2	12	2467	11.80	12.35	15.09	30	.00	-1.	20	13.89		36.00		Pass
VHT20	MCS0	2	13	2472	5.20	5.45	8.34	30	.00	-1.	20	7.	14	36	.00	Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA Peak Power Spectral Density

	2.4GHz Band Single Antenna												
Mod.	Data Rate	NTX	CH.	Freq.		Peak PSD (dBm/3kHz)		DG (dBi)		Peak Lir (dBm/	Pass/Fail		
				(1011 12)	Ant4	Ant3	Worse + 3.01	Ant4	Ant3	Ant4	Ant3		
11b	1Mbps	1	1	2412	-1.27	-1.48		-1.20	-1.20	8.00	8.00	Pass	
11b	1Mbps	1	6	2437	-1.36	-1.51		-1.20	-1.20	8.00	8.00	Pass	
11b	1Mbps	1	11	2462	-1.34	-1.29		-1.20	-1.20	8.00	8.00	Pass	
11b	1Mbps	1	12	2467	-1.33	-1.41		-1.20	-1.20	8.00	8.00	Pass	
11b	1Mbps	1	13	2472	-1.35	-1.28		-1.20	-1.20	8.00	8.00	Pass	

	2.4GHz Band MIMO												
Mod.	Data Rate	Ntx	CH.	Freq.		Peak PSD (dBm/3kHz)		D (dl		Peak Lii (dBm/	Pass/Fail		
	Rate			(IVITZ)	Ant4	Ant3	Worse + 3.01	Ant4	Ant3	Ant4	Ant3		
11g	6Mbps	2	1	2412	-8.18	-8.90	-5.17	1.8	31	8.0	00	Pass	
11g	6Mbps	2	2	2417	-8.08	-8.13	-5.07	1.81		8.0	00	Pass	
11g	6Mbps	2	6	2437	- 4.95	-5.88	-1.94	1.81		8.00		Pass	
11g	6Mbps	2	10	2457	-8.76	-7.92	-4.91	1.8	31	8.00		Pass	
11g	6Mbps	2	11	2462	-10.47	0.47 -9.52 -6.51		1.81		8.00		Pass	
11g	6Mbps	2	12	2467	-14.11	-13.39	-10.38	1.81		8.00		Pass	
11g	6Mbps	2	13	2472	-22.27	-21.62	-18.61	1.8	31	8.0	Pass		

Measured power density (dBm) has offset with cable loss.

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

	2.4GHz Band MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	99% Occi (MI	upied BW Hz)	_	BW Hz)	6dB BW Limit (MHz)	Pass/Fail		
						Ant4	Ant3	Ant4	Ant3				
HE20	MCS0	2	1	2412	Full	19.13	19.13	18.98	19.00	0.50	Pass		
HE20	MCS0	2	6	2437	Full	19.23	19.18	19.03	19.00	0.50	Pass		
HE20	MCS0	2	11	2462	Full	19.18	19.13	19.08	18.88	0.50	Pass		
HE20	MCS0	2	12	2467	Full	19.13	19.08	19.03	18.98	0.50	Pass		
HE20	MCS0	2	13	2472	Full	19.13	19.08	18.83	18.65	0.50	Pass		

TEST RESULTS DATA Average Output Power

	2.4GHz Band MIMO												
Mod.	Data Rate	N τx	CH.	Freq. (MHz)	RU Config		Average conducte Power (dBm)		Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant4	Ant3	SUM	Ant4 Ant3	Ant4 Ant3	Ant4 Ant3	Ant4 Ant3	
HE20	MCS0	2	1	2412	Full	17.80	17.65	20.74	30.00	-1.20	19.54	36.00	Pass
HE20	MCS0	2	1	2412	26/0	9.90	9.95	12.94	30.00	-1.20	11.74	36.00	Pass
HE20	MCS0	2	1	2412	52/37	11.70	12.15	14.94	30.00	-1.20	13.74	36.00	Pass
HE20	MCS0	2	1	2412	106/53	14.60	14.85	17.74	30.00	-1.20	16.54	36.00	Pass
HE20	MCS0	2	2	2417	Full	17.90	17.75	20.84	30.00	-1.20	19.64	36.00	Pass
HE20	MCS0	2	2	2417	26/0	9.90	8.95	12.46	30.00	-1.20	11.26	36.00	Pass
HE20	MCS0	2	2	2417	52/37	10.40	10.05	13.24	30.00	-1.20	12.04	36.00	Pass
HE20	MCS0	2	2	2417	106/53	13.60	13.35	16.49	30.00	-1.20	15.29	36.00	Pass
HE20	MCS0	2	6	2437	Full	20.00	19.35	22.70	30.00	-1.20	21.50	36.00	Pass
HE20	MCS0	2	6	2437	26/4	12.10	12.25	15.19	30.00	-1.20	13.99	36.00	Pass
HE20	MCS0	2	6	2437	52/38	13.80	14.15	16.99	30.00	-1.20	15.79	36.00	Pass
HE20	MCS0	2	6	2437	106/53	17.10	17.35	20.24	30.00	-1.20	19.04	36.00	Pass
HE20	MCS0	2	10	2457	Full	16.60	16.65	19.64	30.00	-1.20	18.44	36.00	Pass
HE20	MCS0	2	10	2457	26/8	8.10	7.85	10.99	30.00	-1.20	9.79	36.00	Pass
HE20	MCS0	2	10	2457	52/40	9.50	9.55	12.54	30.00	-1.20	11.34	36.00	Pass
HE20	MCS0	2	10	2457	106/54	12.60	12.65	15.64	30.00	-1.20	14.44	36.00	Pass
HE20	MCS0	2	11	2462	Full	15.30	15.95	18.65	30.00	-1.20	17.45	36.00	Pass
HE20	MCS0	2	11	2462	26/8	7.70	8.25	10.99	30.00	-1.20	9.79	36.00	Pass
HE20	MCS0	2	11	2462	52/40	9.50	10.25	12.90	30.00	-1.20	11.70	36.00	Pass
HE20	MCS0	2	11	2462	106/54	12.00	13.05	15.57	30.00	-1.20	14.37	36.00	Pass
HE20	MCS0	2	12	2467	Full	11.90	12.45	15.19	30.00	-1.20	13.99	36.00	Pass
HE20	MCS0	2	12	2467	26/8	4.00	4.65	7.35	30.00	-1.20	6.15	36.00	Pass
HE20	MCS0	2	12	2467	52/40	5.40	5.75	8.59	30.00	-1.20	7.39	36.00	Pass
HE20	MCS0	2	12	2467	106/54	9.20	10.15	12.71	30.00	-1.20	11.51	36.00	Pass
HE20	MCS0	2	13	2472	Full	5.30	5.45	8.39	30.00	-1.20	7.19	36.00	Pass
HE20	MCS0	2	13	2472	26/8	-1.50	-1.65	1.44	30.00	-1.20	0.24	36.00	Pass
HE20	MCS0	2	13	2472	52/40	0.00	0.45	3.24	30.00	-1.20	2.04	36.00	Pass
HE20	MCS0	2	13	2472	106/54	2.60	2.75	5.69	30.00	-1.20	4.49	36.00	Pass

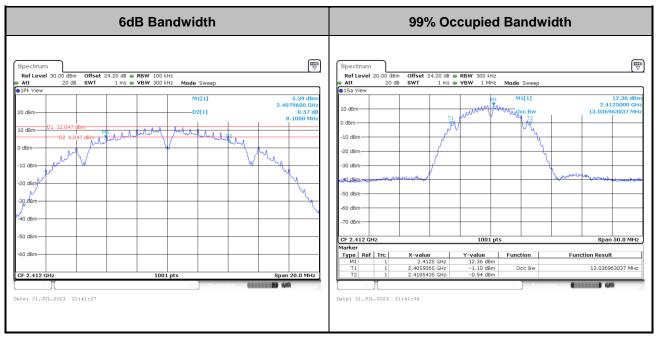
Note: Measured power (dBm) has offset with cable loss.

<u>TEST RESULTS DATA</u> <u>Peak Power Spectral Density</u>

	2.4GHz Band MIMO																																														
Mod.	Data Rate	Ntx	CH.	Freq.	RU Config		Peak PSD (dBm/3kHz)		D((dE		Peak Lir (dBm/	nit	Pass/Fail																																		
	rtato			(111112)		Ant4	Ant3	Worse + 3.01	Ant4	Ant3	Ant4	Ant3																																			
HE20	MCS0	2	1	2412	Full	-8.54	-9.07	-5.53	1.8	31	8.0	00	Pass																																		
HE20	MCS0	2	1	2412	26/0	-8.89	-9.17	-5.88	1.8	31	8.0	00	Pass																																		
HE20	MCS0	2	1	2412	52/37	-8.85	-9.48	-5.84	1.8	31	8.0	00	Pass																																		
HE20	MCS0	2	1	2412	106/53	-8.88	-9.32	-5.87	1.8	31	8.0	00	Pass																																		
HE20	MCS0	2	2	2417	Full	-9.25	-8.84	-5.83	1.8	31	8.0	00	Pass																																		
HE20	MCS0	2	2	2417	26/0	-9.43	-9.98	-6.42	1.8	31	8.0	00	Pass																																		
HE20	MCS0	2	2	2417	52/37	-10.52 -9.44 -6.43			1.8	31	8.0	Pass																																			
HE20	MCS0	2	2	2417	106/53	-9.95 -9.22 -6.21		1.81		8.00		Pass Pass																																			
HE20	MCS0	2	6	2437	Full	-6.21	-7.41	-3.20		1.81		8.00																																			
HE20	MCS0	2	6	2437	26/4	-6.57	-7.00	-3.56	1.8		8.00		Pass																																		
HE20	MCS0	2	6	2437	52/38	-6.62	-7.70	-3.61	1.8		8.00		Pass																																		
HE20	MCS0	2	6	2437	106/53	-6.33	-7.29	-3.32	1.8	31	8.00		Pass																																		
HE20	MCS0	2	10	2457	Full	-10.19	-10.51	-7.18		1.81		00	Pass																																		
HE20	MCS0	2	10	2457	26/8	-11.51	-10.47	-7.46	1.8	1.81		_		00	Pass																																
HE20	MCS0	2	10	2457	52/40	-11.70	-10.46	-7.45	1.8	1.81					Pass																																
HE20	MCS0	2	10	2457	106/54	-11.25	-10.24	-7.23	1.8		8.0		Pass																																		
HE20	MCS0	2	11	2462	Full	-11.03	-10.42	-7.41	1.8	31	8.0	00	Pass																																		
HE20	MCS0	2	11	2462	26/8	-11.30	-10.48	-7.47	1.8	1.81		00	Pass																																		
HE20	MCS0	2	11	2462	52/40	-11.41	-10.76	-7.75	1.81		1.81		1.81		1.81												1.81		1.81		1.81		1.81		1.81		8.0		Pass								
HE20	MCS0	2	11	2462	106/54	-11.49	-10.49	-7.48	1.81						1.81		1.81		1.81										1.81		8.0		Pass														
HE20	MCS0	2	12	2467	Full	-15.44	-14.44	-11.43	1.81				1.81				1.81		1.81		1.81		1.81		1.81		1.81		1.81								-		1.81		1.81		1.81		8.0		Pass
HE20	MCS0	2	12	2467	26/8	-15.60	-14.56	-11.55	1.81		1.81				1.81		8.0		Pass																												
HE20	MCS0	2	12	2467	52/40	-15.83	-14.48	-11.47	1.81		8.0		Pass																																		
HE20	MCS0	2	12	2467	106/54	-15.47	-14.50	-11.49	1.81		1.81		1.81		1.81		1.81								1.81		8.0		Pass																		
HE20	MCS0	2	13	2472	Full	-21.24	-21.84	-18.23	1.81		1.81		1.81		1.81		1.81		1.81		1.81		1.81		1.81		1.81		1.81		8.0		Pass														
HE20	MCS0	2	13	2472	26/8	-21.42	-22.03	-18.41	1.81		1.81				00	Pass																															
HE20	MCS0	2	13	2472	52/40	-21.43	-22.47	-18.42	1.8		8.00		Pass																																		
HE20	MCS0	2	13	2472	106/54	-21.47	-22.32	-18.46	1.8	31	8.0	Pass																																			

6dB and 99% Occupied Bandwidth

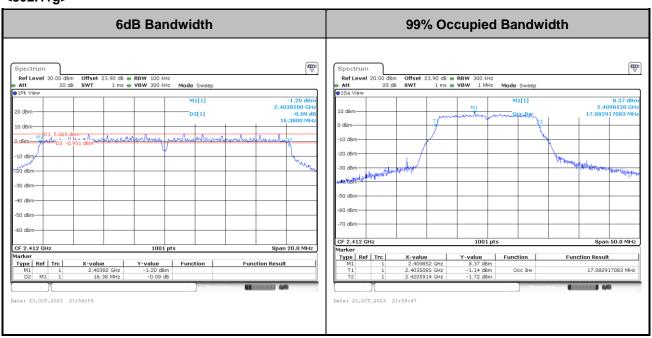
<802.11b>



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Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11g>

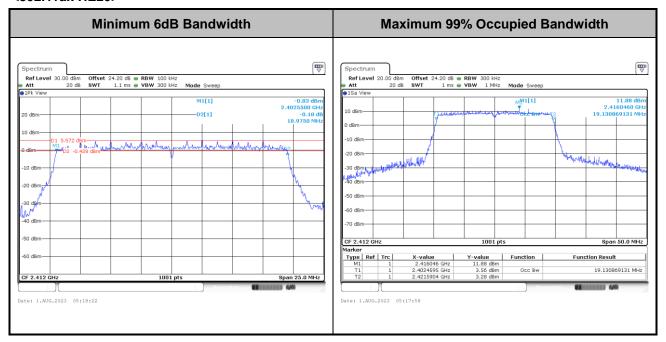


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

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FAX: 886-3-327-0855

<802.11ax HE20>



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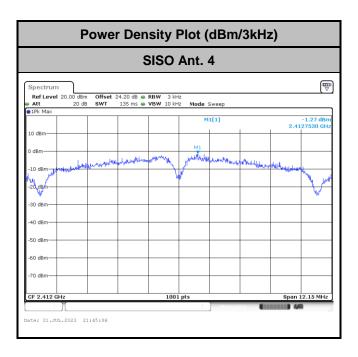
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

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FAX: 886-3-327-0855

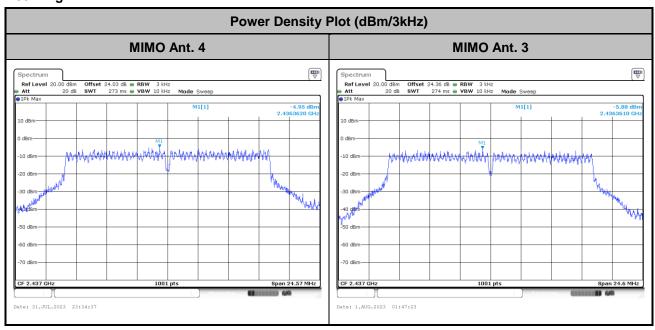
Power Spectral Density(dBm/3kHz)

<802.11b>



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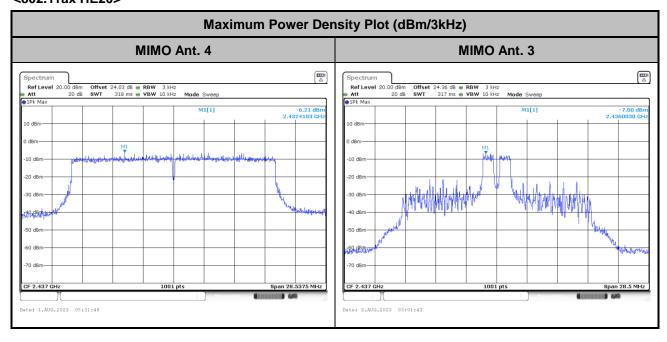
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FAX: 886-3-327-0855

<802.11ax HE20>

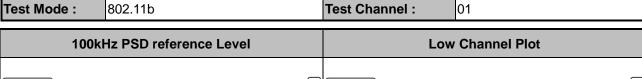


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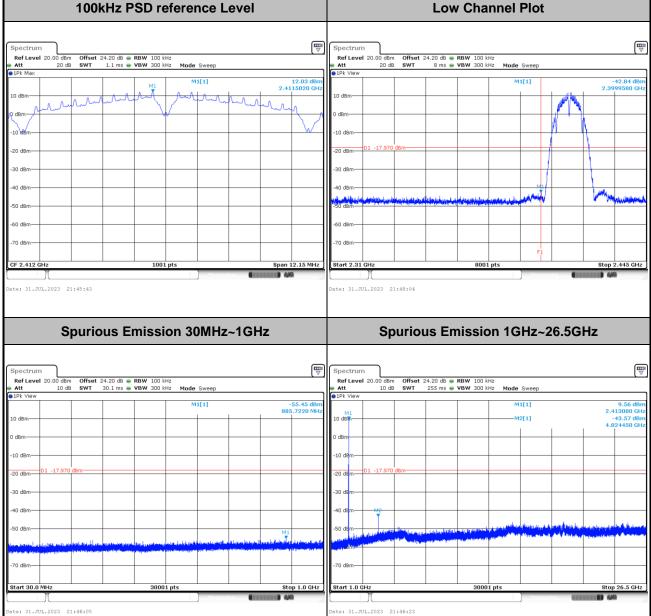
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Band Edges and Spurious Emission

Number of TX = 2, Ant. 4 (Measured)

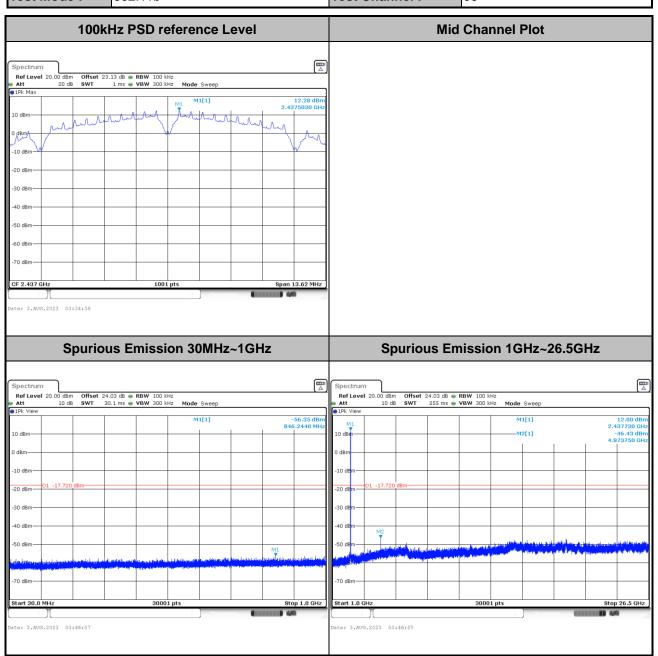


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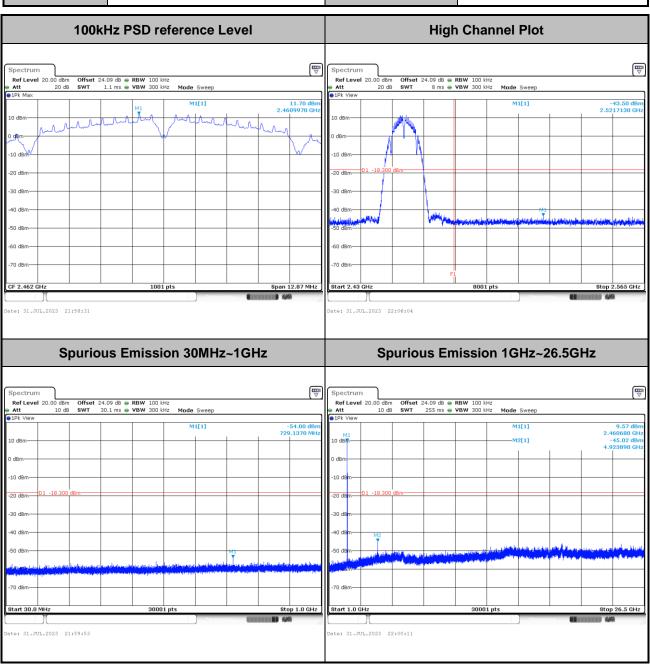
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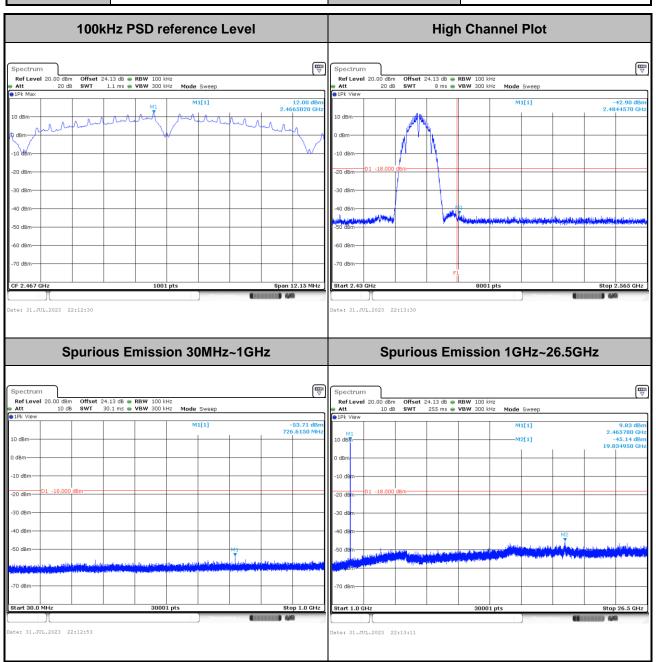
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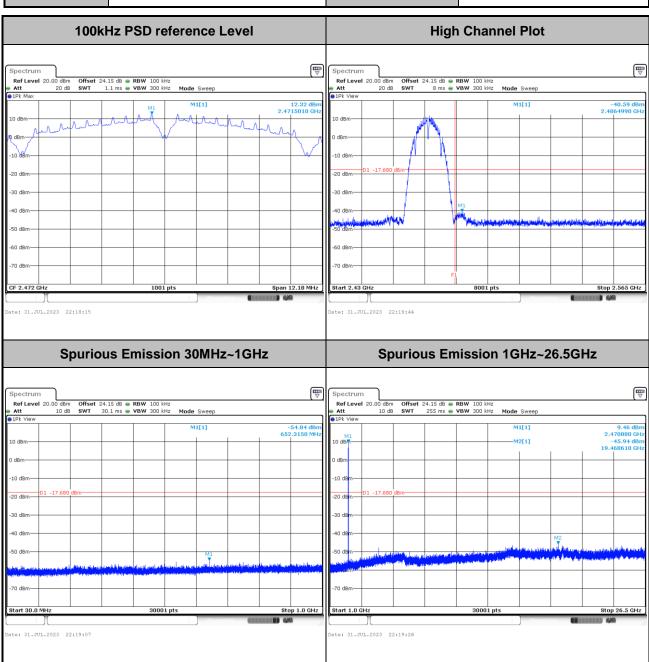
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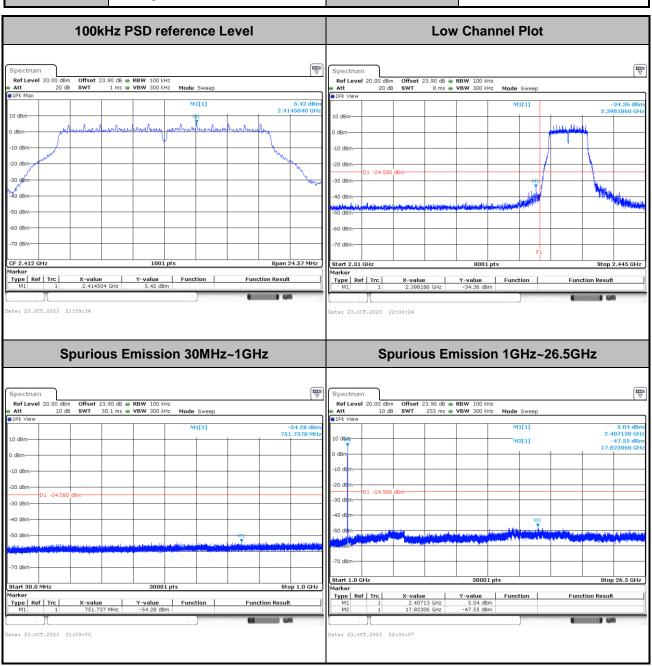
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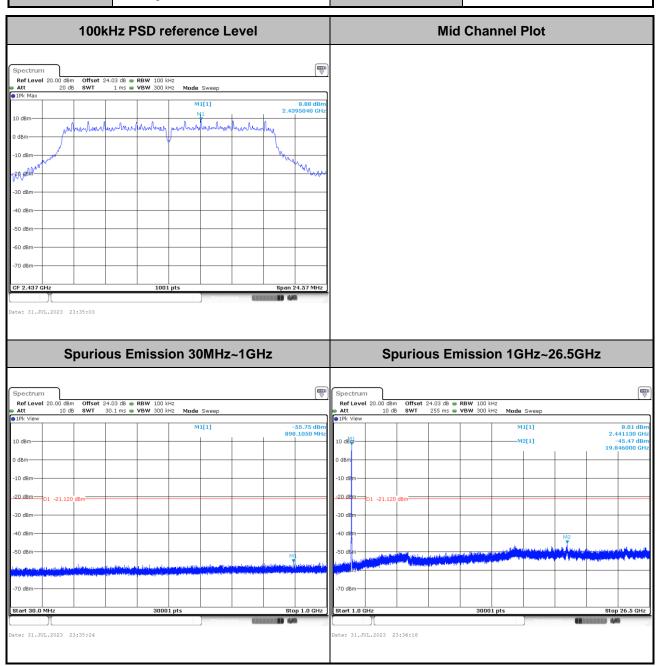
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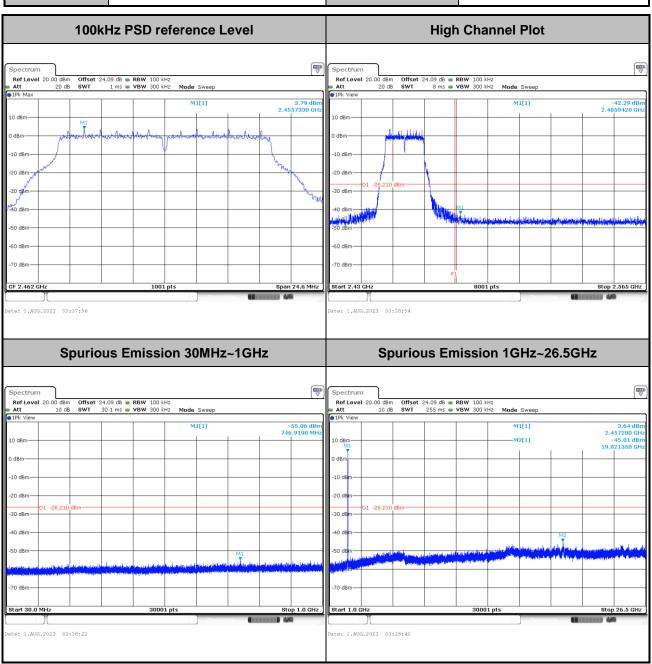
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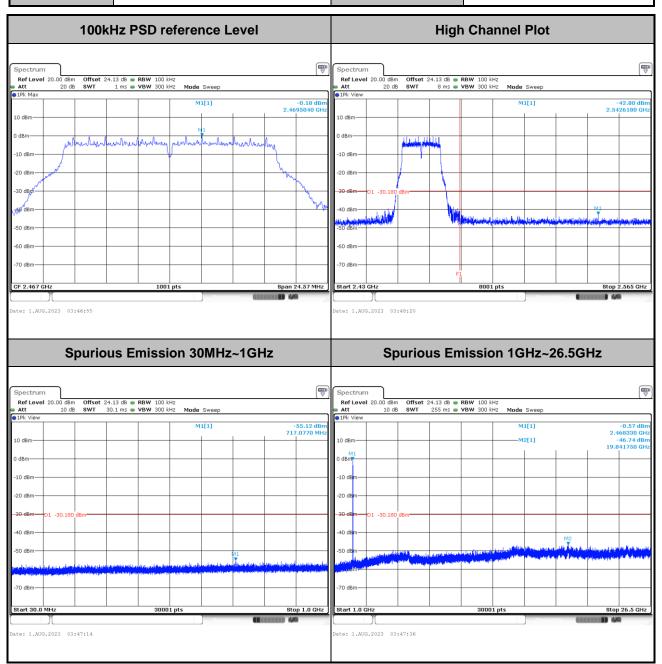
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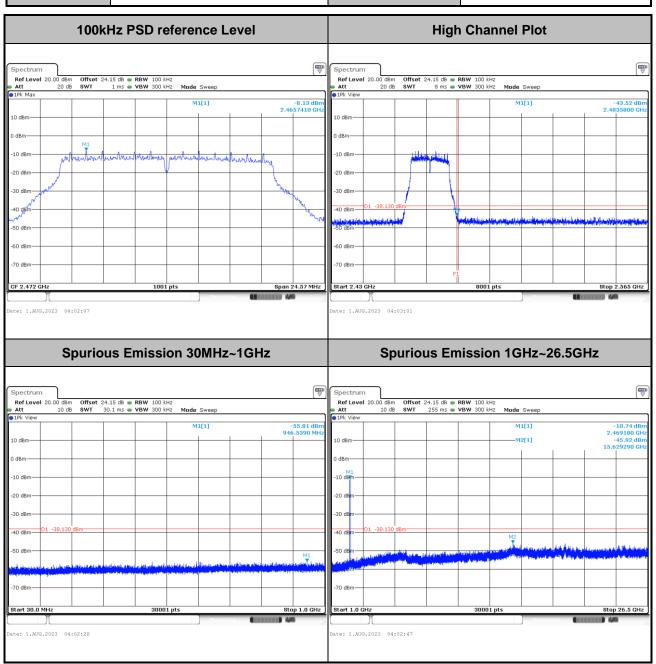
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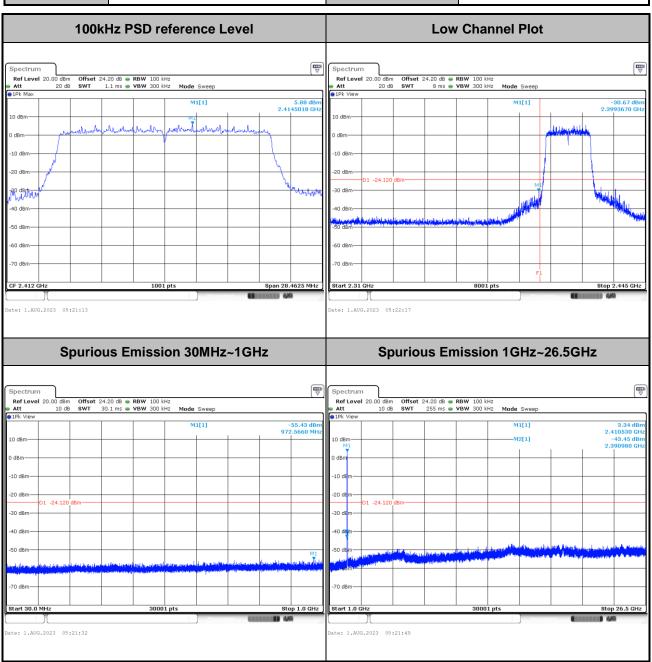
Report No.: FR380306C



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Test Mode: 802.11ax HE20 Test Channel: 01 Full RU

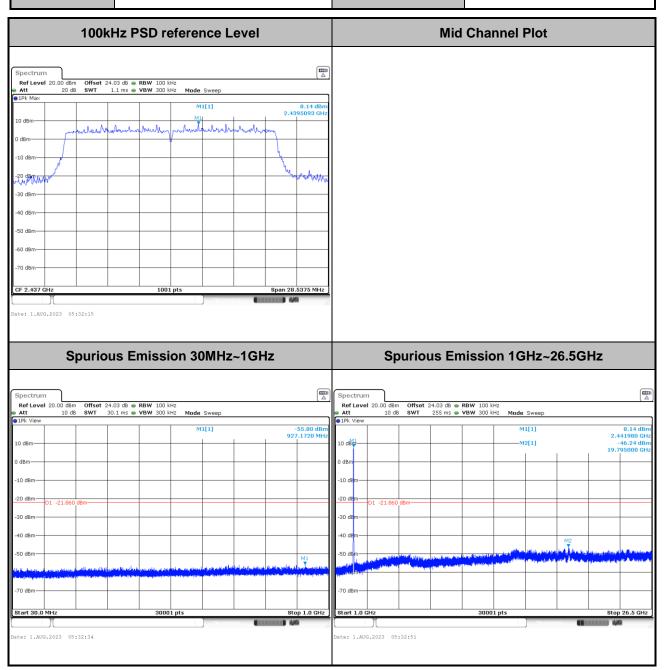
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Test Mode: 802.11ax HE20 Test Channel: 06 Full RU

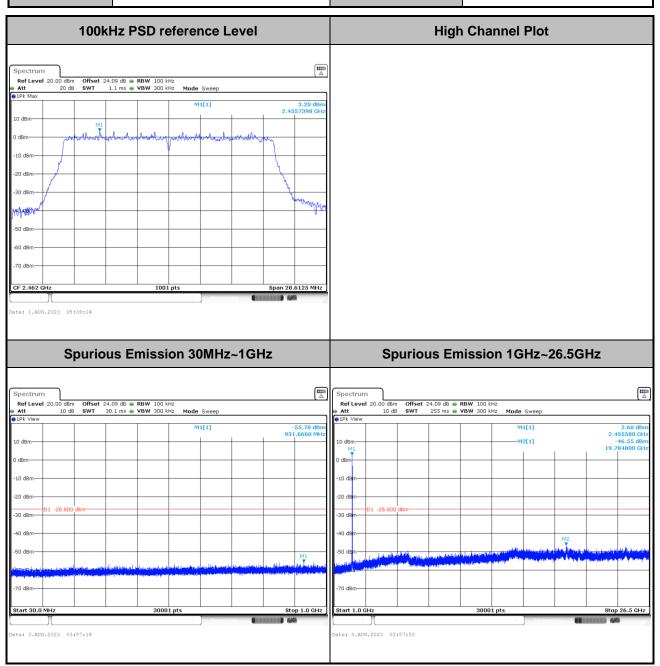
Report No.: FR380306C



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Test Mode: 802.11ax HE20 Test Channel: 11 Full RU

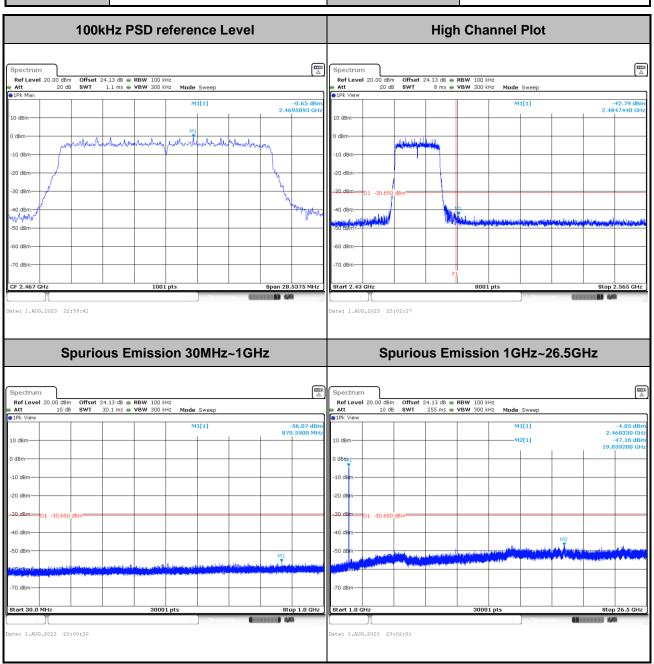
Report No.: FR380306C



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Test Mode: 802.11ax HE20 Test Channel: 12 Full RU

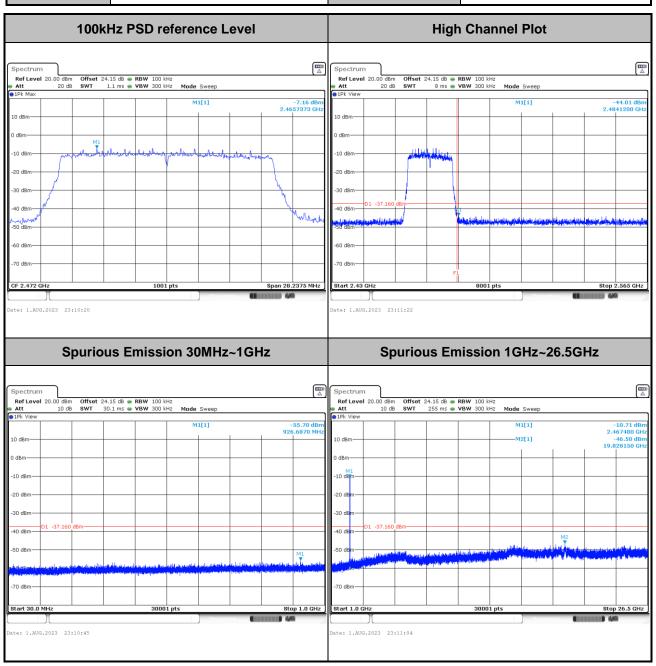
Report No.: FR380306C



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Test Mode: 802.11ax HE20 Test Channel: 13 Full Ru

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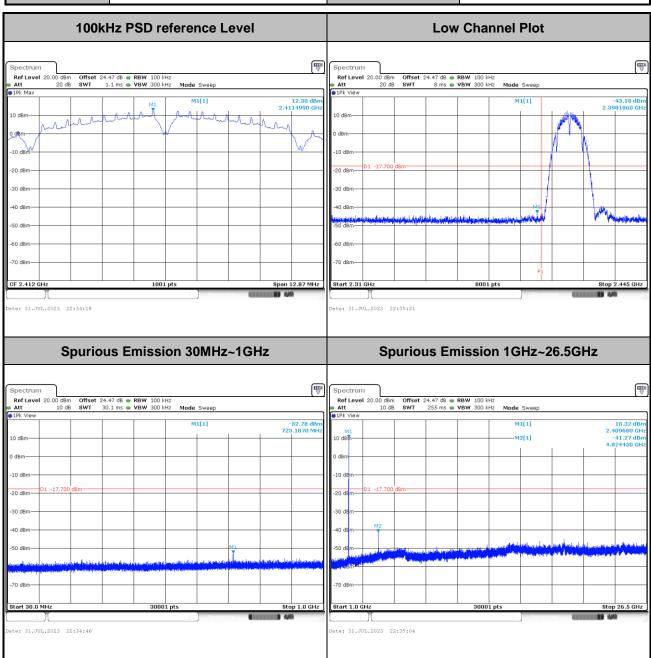


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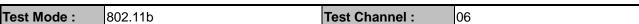
Number of TX = 2, Ant. 3 (Measured)



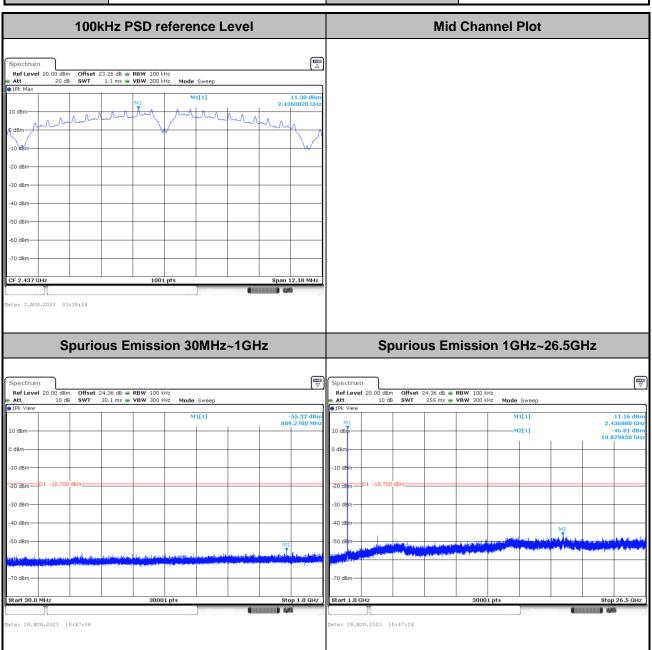
Report No.: FR380306C



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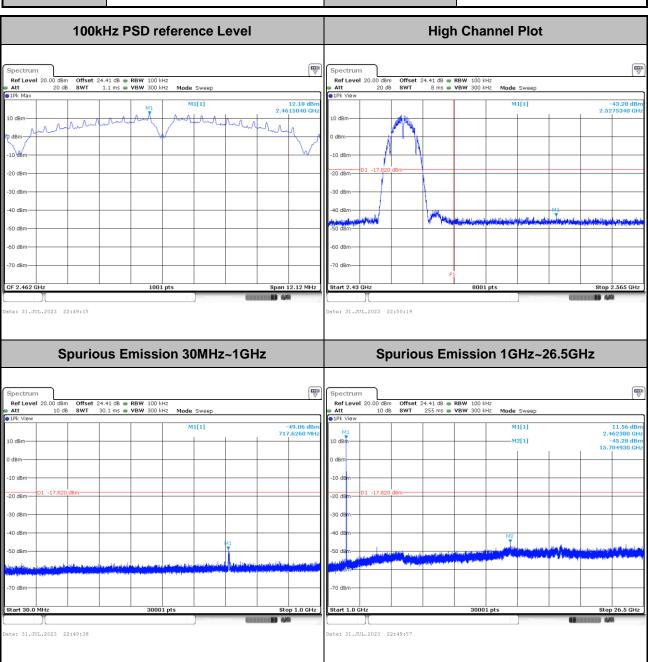


Report No.: FR380306C



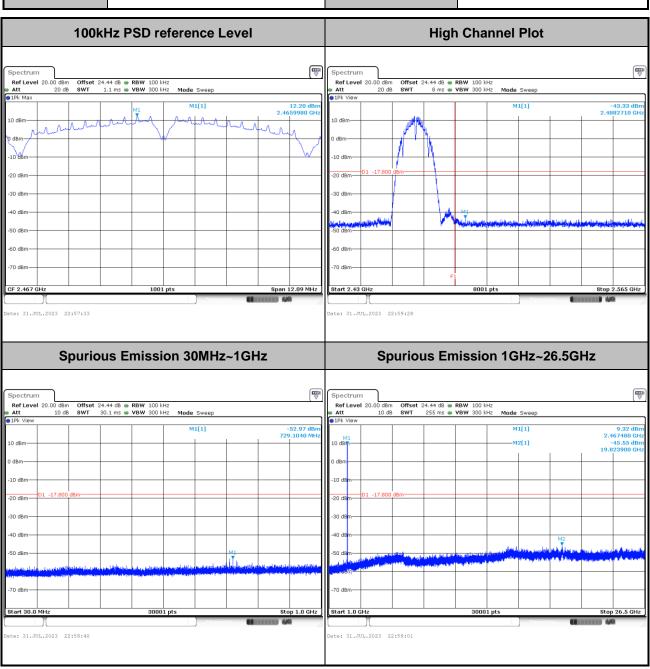
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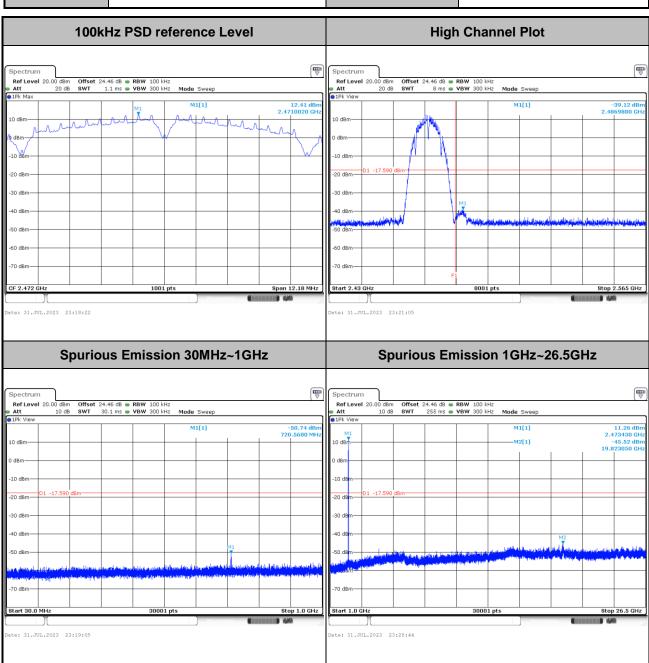
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Report No.: FR380306C



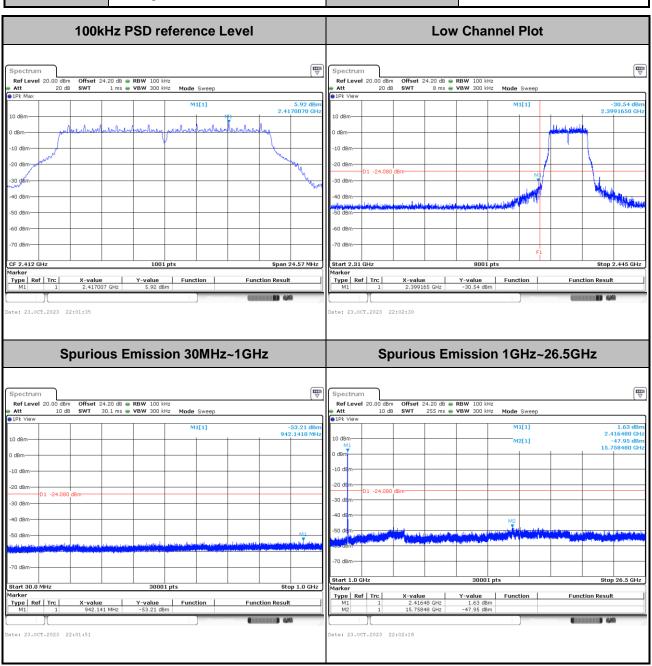
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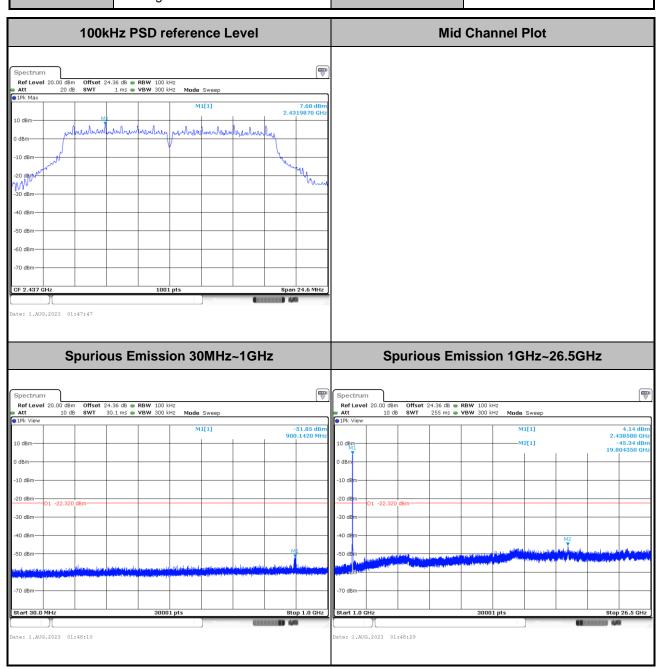
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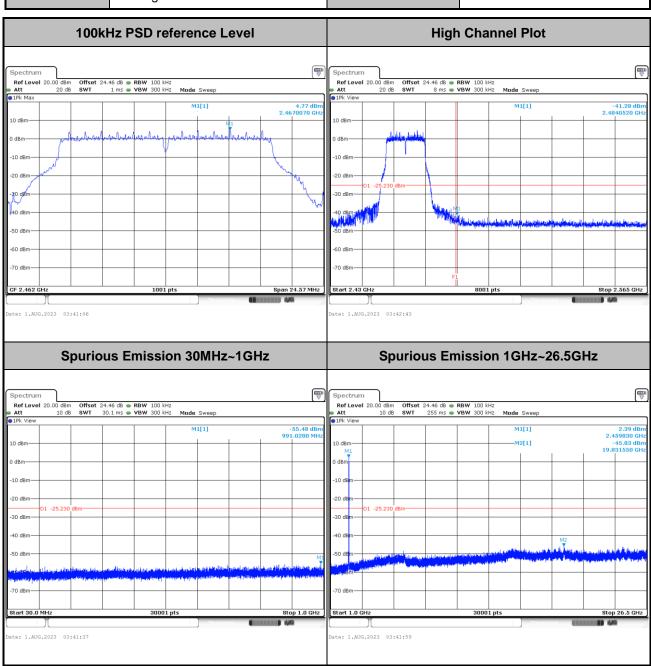
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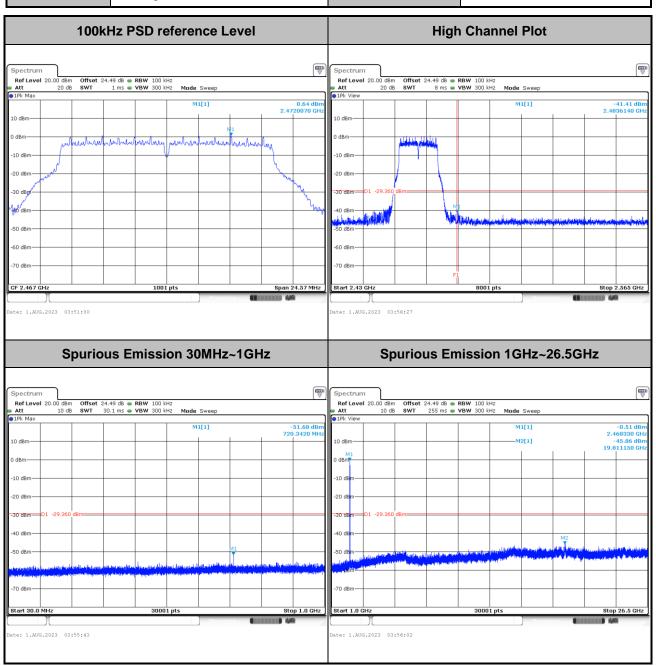
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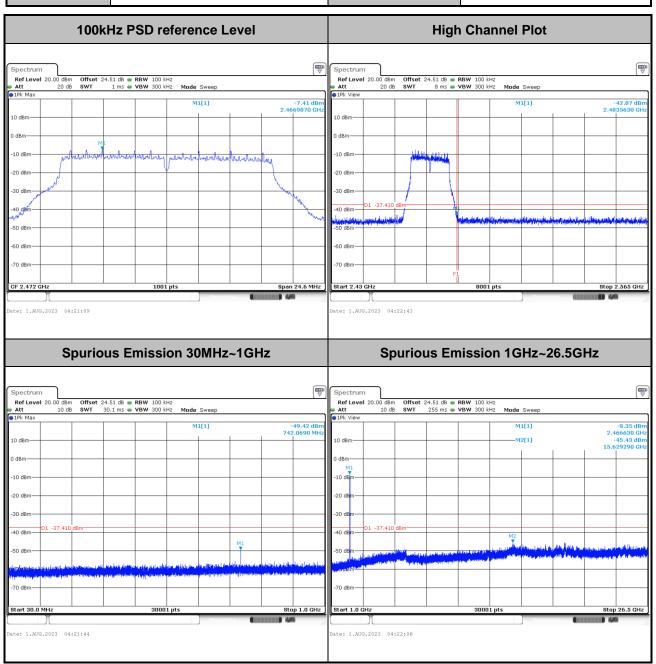
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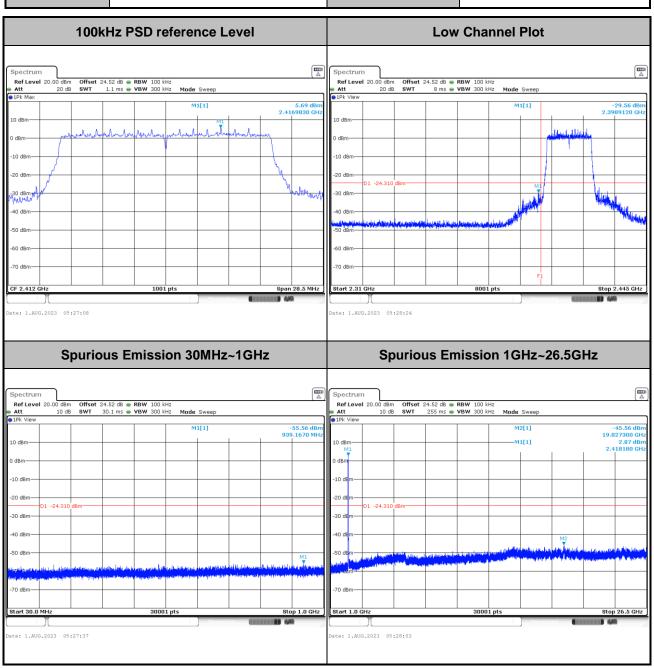
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Test Mode: 802.11ax HE20 Test Channel: 01 Full RU

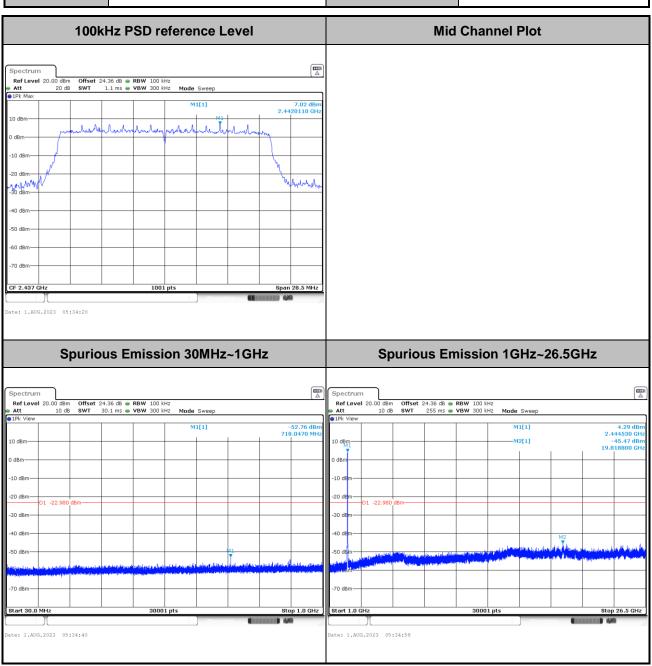
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Test Mode: 802.11ax HE20 Test Channel: 06 Full RU

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