



Report No.: FR0D2215C

FCC RADIO TEST REPORT

FCC ID : PY7-26726G

Equipment : GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII

a/b/g/n/ac/ax, GPS, WPC and NFC

Brand Name : Sony

Applicant : Sony Corporation

1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

Manufacturer : Sony Corporation

1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

Standard : FCC Part 15 Subpart C §15.247

The product was received on Dec. 22, 2020 and testing was started from Dec. 29, 2020 and completed on Mar. 03, 2021. We, Sporton International Inc. EMC & Wireless Communications 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 of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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History of this test report

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Report No.	Version	Description	Issued Date
FR0D2215C	01	Initial issue of report	Mar. 24, 2021
FR0D2215C	02	Add remark description in Test Mode and Appendix A	Apr. 07, 2021
FR0D2215C	03	Remove test data	Apr. 16, 2021

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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) Power Spectral Density		Pass	-	
2.4	45.047(1)	45.047(-1)	Conducted Band Edges	Pass	-
3.4	15.247(d)	Conducted Spurious Emission	Pass	-	
3.5 Radiated Band Edges and Radiated Spurious Emission			Pass	Under limit 3.04 dB at 18000.000 MHz	
3.6	3.6 15.207 AC Conducted Emission Pass		Pass	Under limit 10.86 dB at 0.335 MHz	
3.7	15.203 & 15.247(b)	Antenna Requirement I Pass		-	

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang Report Producer: Vivian Hsu

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1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac/ax, NFC, FM Receiver, WPC/WPT, and GNSS.

Standards-related Product Specification			
Antenna Type / Gain	<ant. 0="">: Loop Antenna with gain -5.3 dBi</ant.>		
Antenna Type / Gani	<ant. 1="">: Loop Antenna with gain -4.9 dBi</ant.>		

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Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

EUT Information List					
HW Version	SW Version	S/N	Performed Test Item		
	0.325	QV72002N5Z QV72002F5Z	RF conducted measurement		
A	0.325	QV72000U6F	Radiated Spurious Emission		
	1.48	QV7200LU6F	AC Conducted Emission		

Accessory List			
	Model Name : XQZ-UC1		
AC Adapter	S/N:		
AC Adapter	0020W51300039 (for Radiated Spurious Emission)		
	0020W51300024 (for Conducted Emission)		
-	Model Name : STH40D		
Earphone	S/N:N/A		
Blacks of Familians	Model Name : SBH82D		
Bluetooth Earphone	S/N:N/A		
LIOD OLLI	Model Name : XQZ-UB1		
USB Cable	S/N:N/A		
W	Model Name : F7U050		
Wireless Charger	S/N: 26S10EHC828473		

Note:

- 1. Above EUT list used are electrically identical per declared by manufacturer.
- 2. Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report. .
- 3. For other wireless features of this EUT, test report will be issued separately.

1.2 Modification of EUT

No modifications are made to the EUT during all test items.

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1.3 Testing Location

Test Site Sporton International Inc. EMC & Wireless Communications Labora	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH05-HY, CO05-HY

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

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.	
rest site No.	03CH15-HY (TAF Code: 3786)	
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.	

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

FCC designation No.: TW1190 and TW0007

1.4 Applicable Standards

According to the specifications of 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 DTS 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 test items were verified and recorded according to the standards and without any deviation during the test.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.
- 3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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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, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane and WPC Charging Mode) were 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	7	2442
	2	2417	8	2447
2400 2492 E MH=	3	2422	9	2452
2400-2483.5 MHz	4	2427	10	2457
	5	2432	11	2462
	6	2437		

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2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20 (Covered by HE20)	MCS0
802.11ax HE20	MCS0

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Remark: Since the verify power, the same operating range bandwidth and smaller power can be covered by the higher power.

Test Cases				
AC Conducted	Mode 1: GSM850 Idle + Bluetooth Link + WLAN (2.4GHz) Link + MPEG4 + Earphone + USB Cable (Charging from AC Adapter) + Battery			
Emission Emission				

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

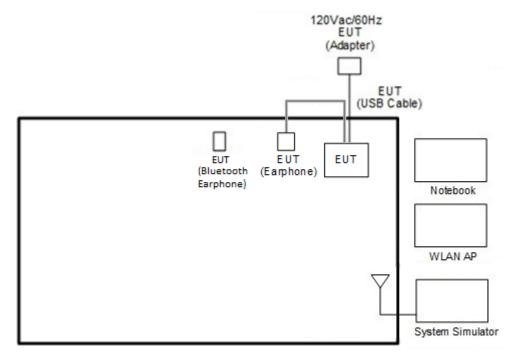
Remark:

- **1.** For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.
- 2. For Radiated Spurious Emission Test Items, Ant. 0 means Chain 0 and Ant. 1 means Chain 1.

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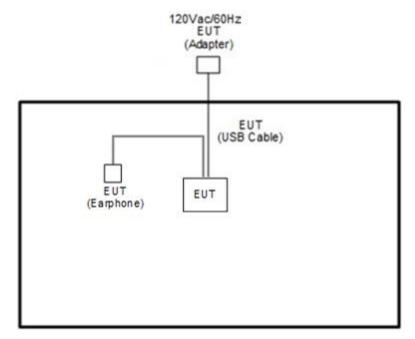
2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



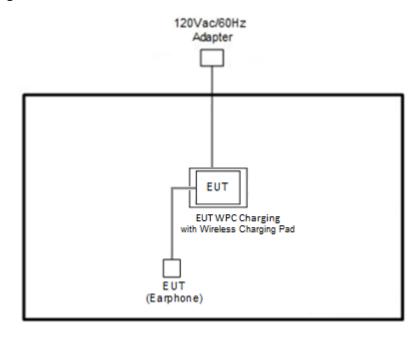
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<WLAN TX Mode>



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<WPC Charging 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.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	Dell	Latitude 3400	FCC DOC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
4.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

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2.5 EUT Operation Test Setup

The RF test items, utility "FTMC_bridge V_0.39" 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

See list of measuring equipment of this test report.

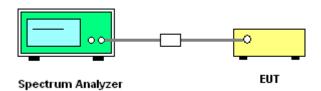
3.1.3 Test Procedures

- 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 was connected to the spectrum analyzer by RF cable and attenuator. The path loss was 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



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3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

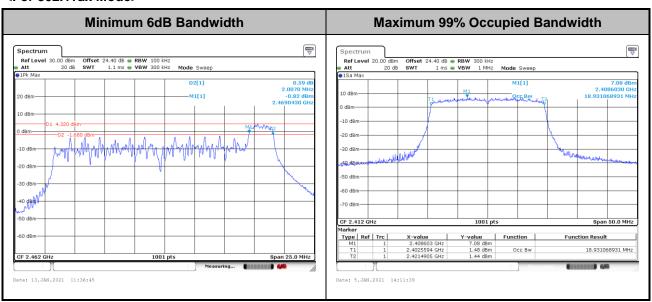
Please refer to Appendix A.



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

<For 802.11ax Mode>



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

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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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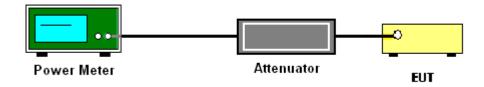
3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

- 1. For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.3 PKPM1
- 2. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
- 3. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 4. Set the maximum power setting and enable the EUT to transmit continuously.
- 5. Measure the conducted output power and record the results in the test report.
- 6. 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 Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

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

See list of measuring equipment of 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 was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set the maximum power setting and enable the EUT to transmit continuously.
- 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.

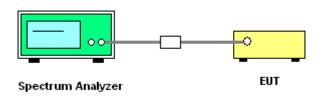
If measurements performed using method (2) plus 10 log (N) exceeds the emission limit, the test should choose method (1) before declaring that the device fails the emission limit.

Method (1): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

Method (2): Measure and add 10 log (N) dB, where N is the number of outputs. (N=2)

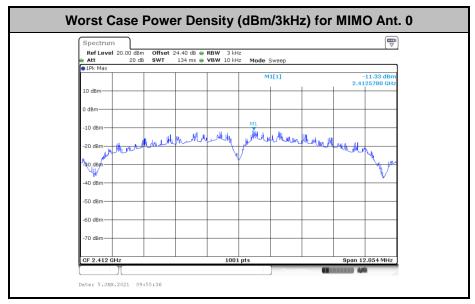
3.3.4 Test Setup



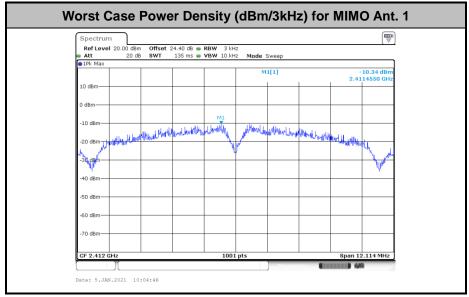
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3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

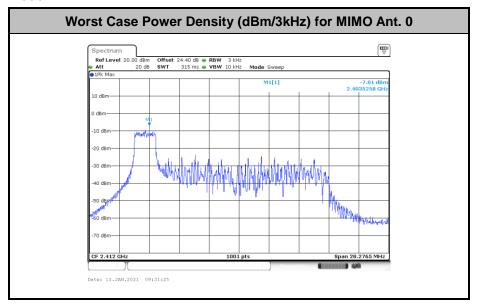


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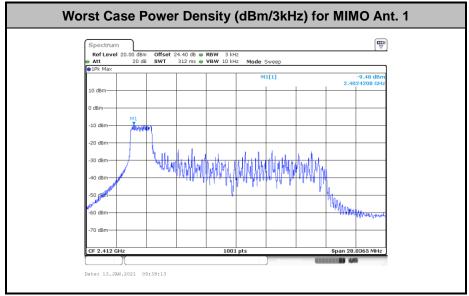


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<For 802.11ax Mode>



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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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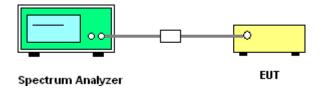
3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

- 1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 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.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



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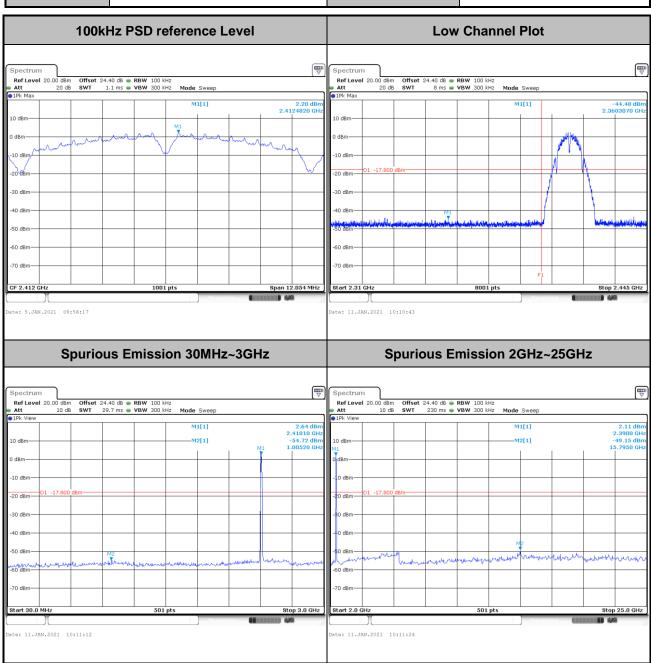
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Facon Huana	Temperature :	21~25℃
rest Engineer.	Lason Huang	Relative Humidity :	51~54%

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Number of TX = 2, Ant. 1 (Measured)

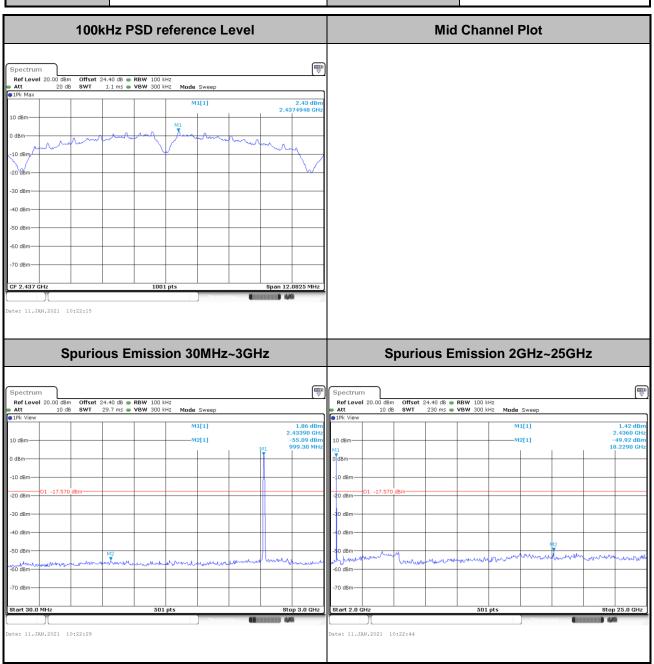




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Test Mode: 802.11b Test Channel: 06

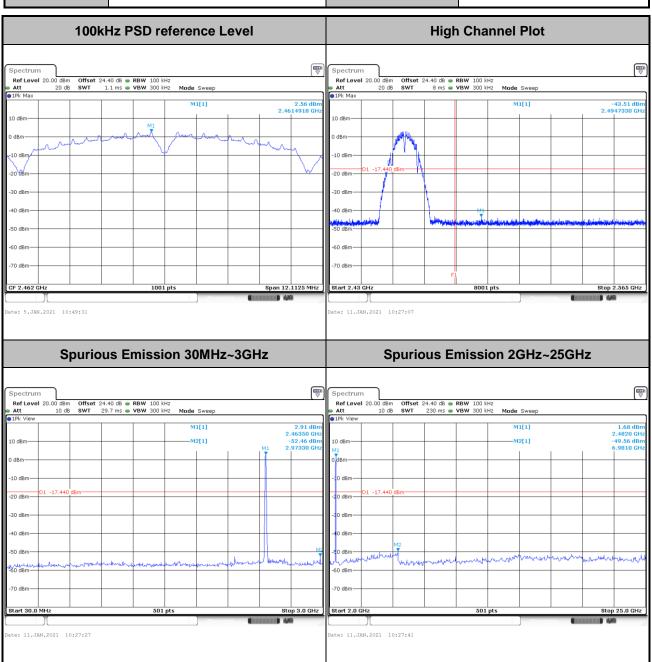
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Test Mode: 802.11b Test Channel: 11

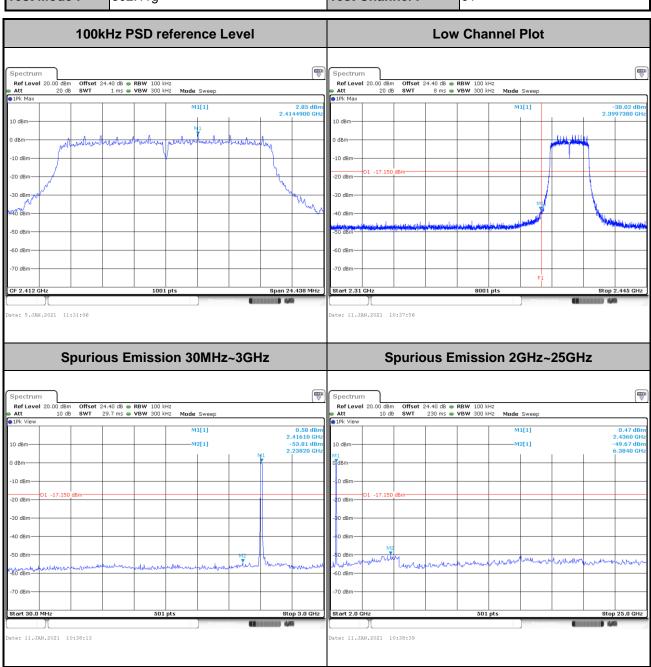
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Test Mode: 802.11g Test Channel: 01

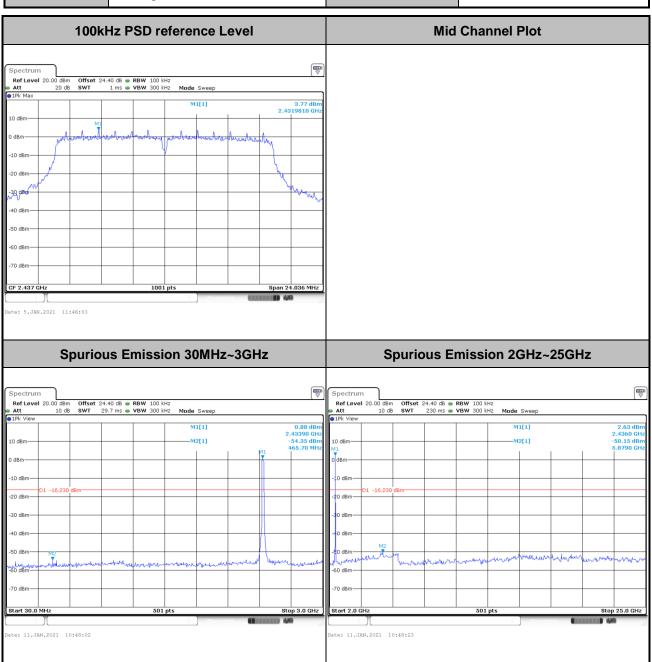
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Test Mode: 802.11g Test Channel: 06

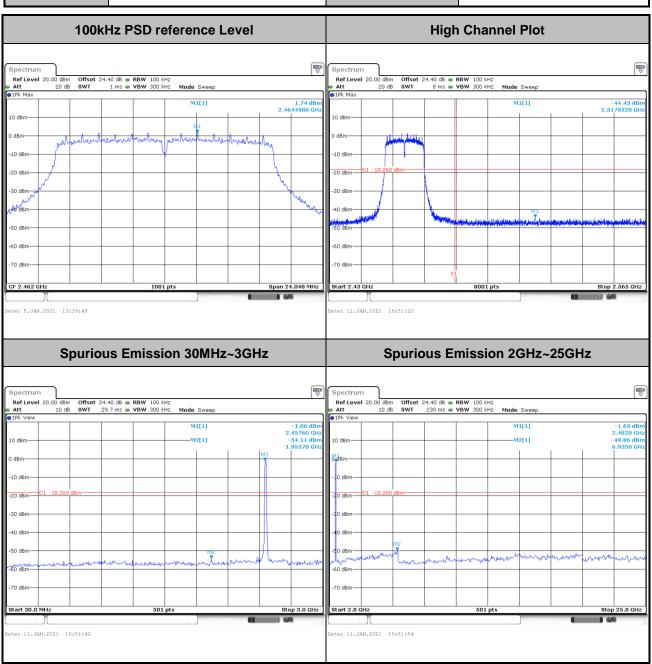
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Test Mode: 802.11g Test Channel: 11

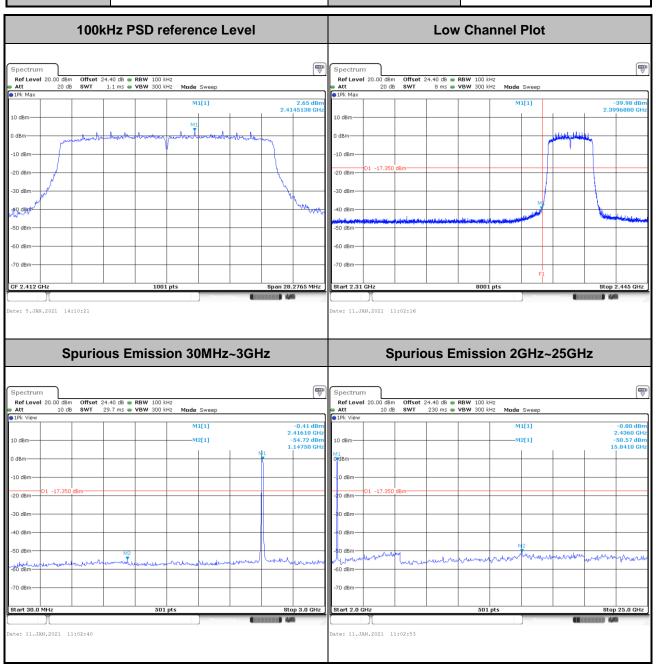
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Test Mode: 802.11ax HE20 Test Channel: 01 Full RU

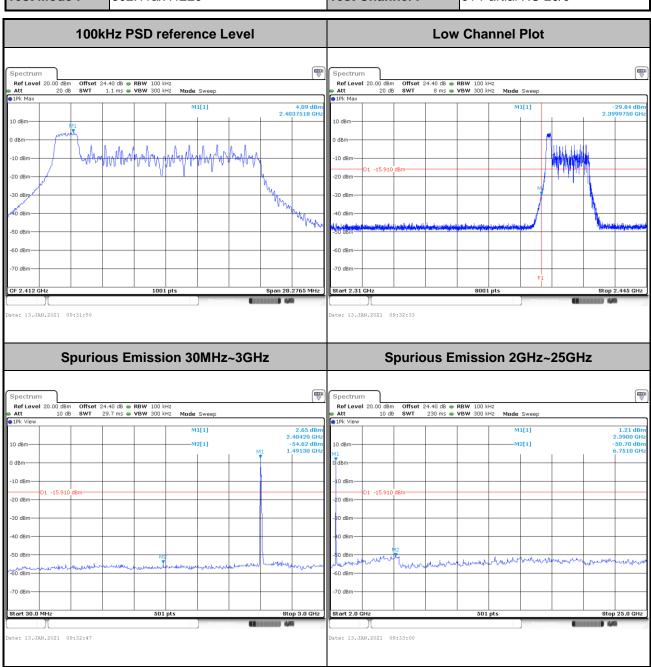
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Test Mode: 802.11ax HE20 Test Channel: 01 Partial RU 26/0

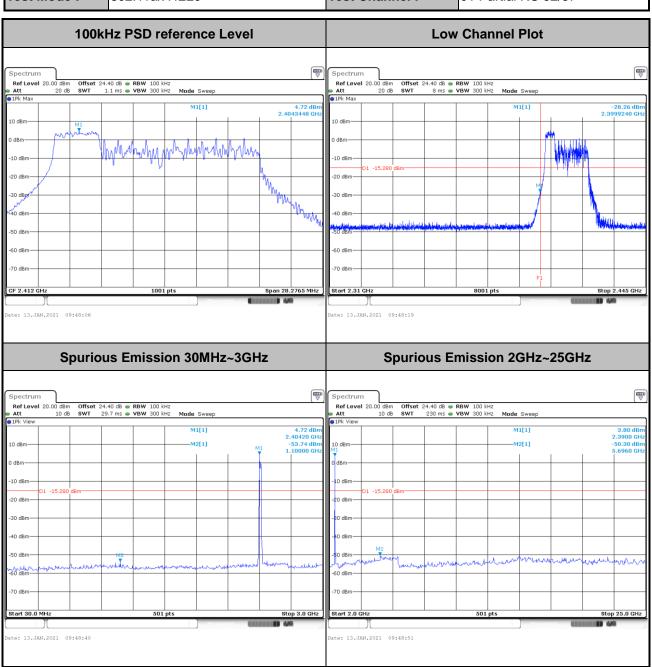
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Test Mode: 802.11ax HE20 Test Channel: 01 Partial RU 52/37

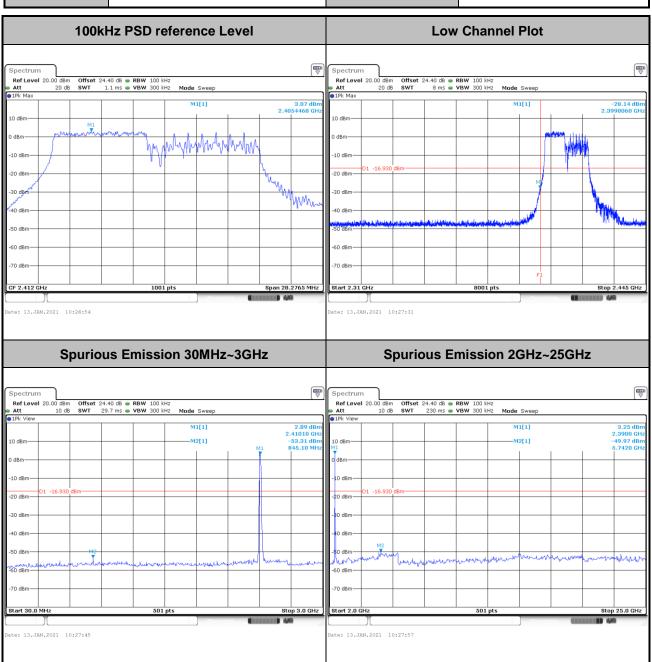
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Test Mode: 802.11ax HE20 Test Channel: 01 Partial RU 106/53

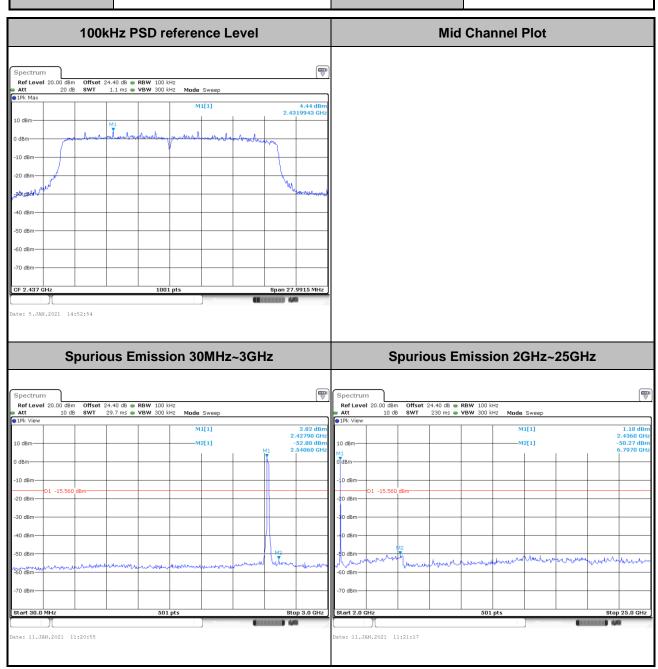
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Test Mode: 802.11ax HE20 Test Channel: 06 Full RU

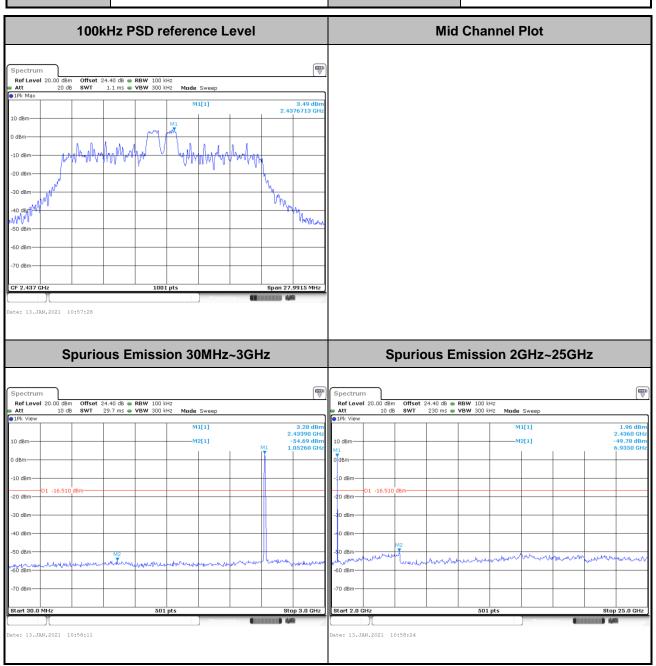
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Test Mode: 802.11ax HE20 Test Channel: 06 Partial RU 26/4

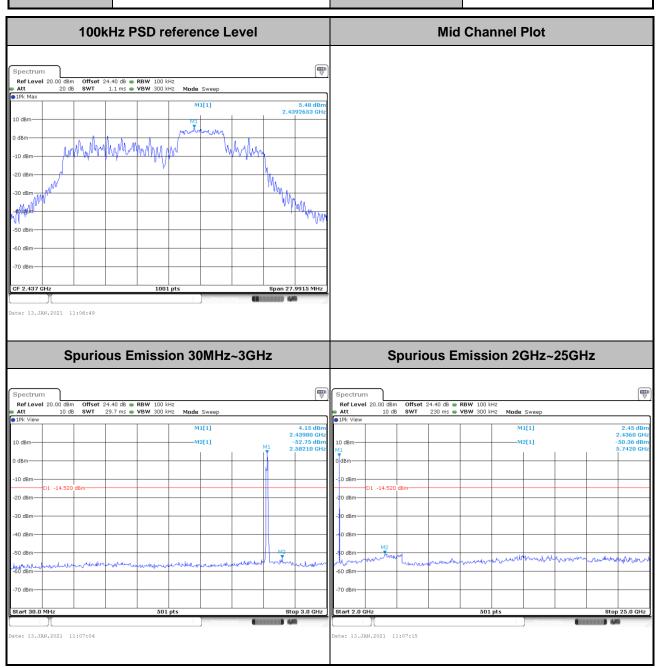
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Test Mode: 802.11ax HE20 Test Channel: 06 Partial RU 52/39

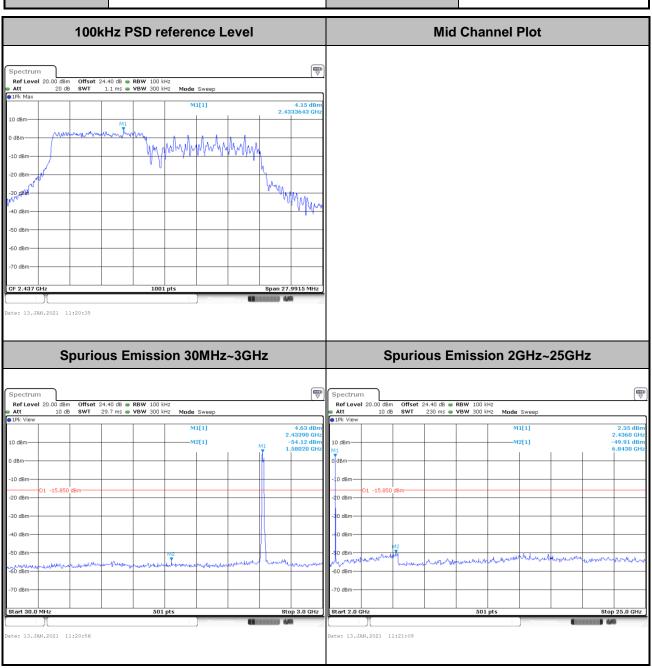
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Test Mode: 802.11ax HE20 Test Channel: 06 Partial RU 106/53

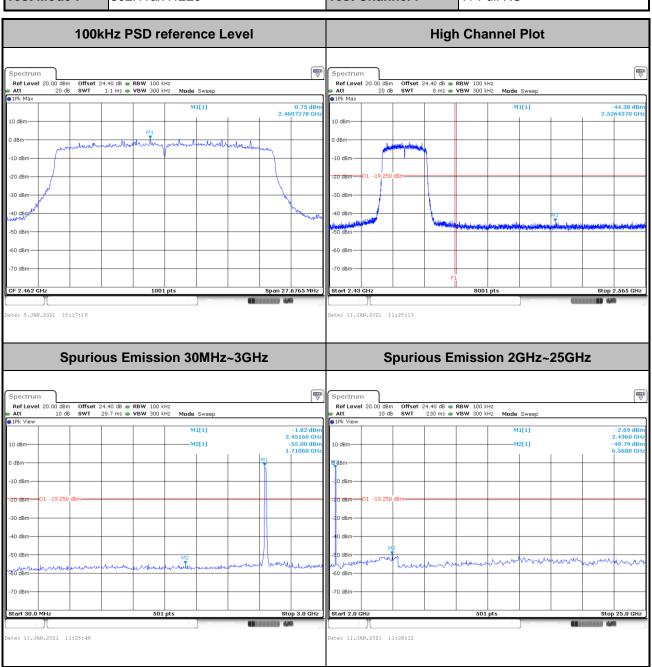
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Test Mode: 802.11ax HE20 Test Channel: 11 Full RU

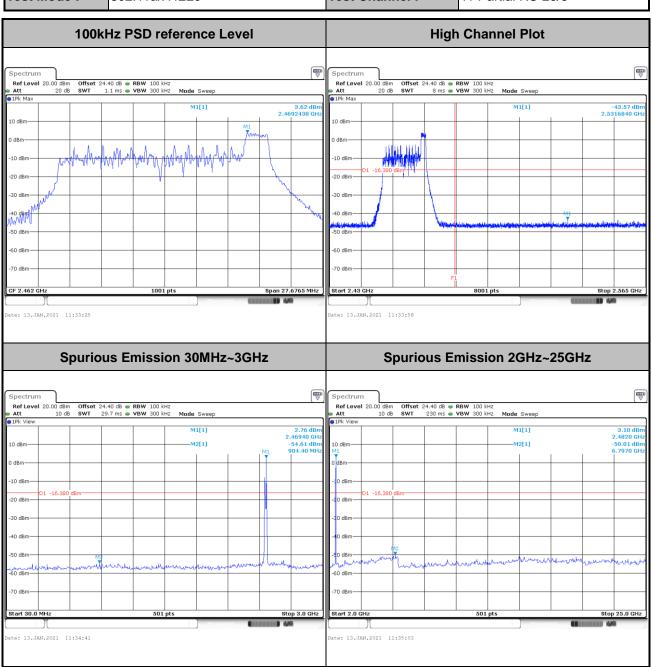
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Test Mode: 802.11ax HE20 Test Channel: 11 Partial RU 26/8

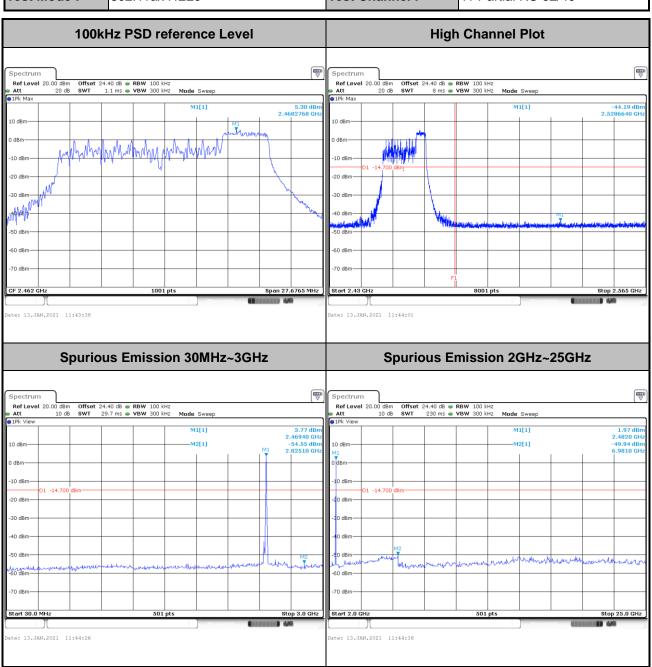
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Test Mode: 802.11ax HE20 Test Channel: 11 Partial RU 52/40

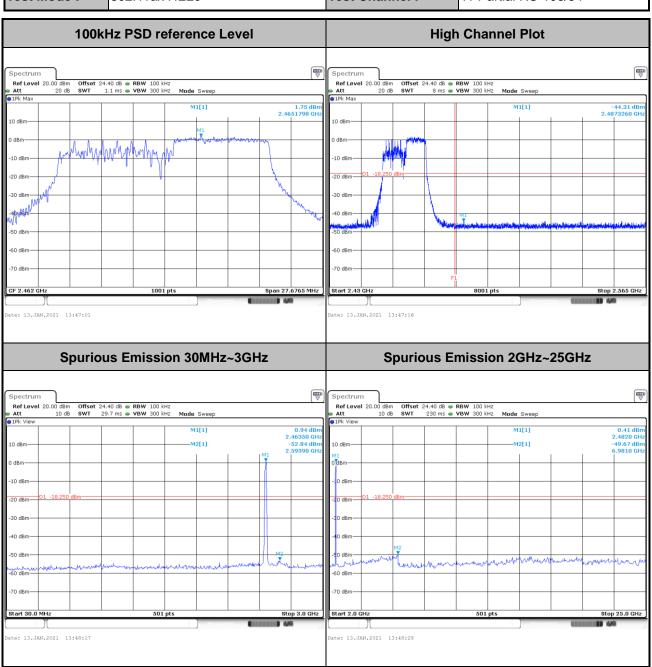
Report No.: FR0D2215C



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Test Mode: 802.11ax HE20 Test Channel: 11 Partial RU 106/54

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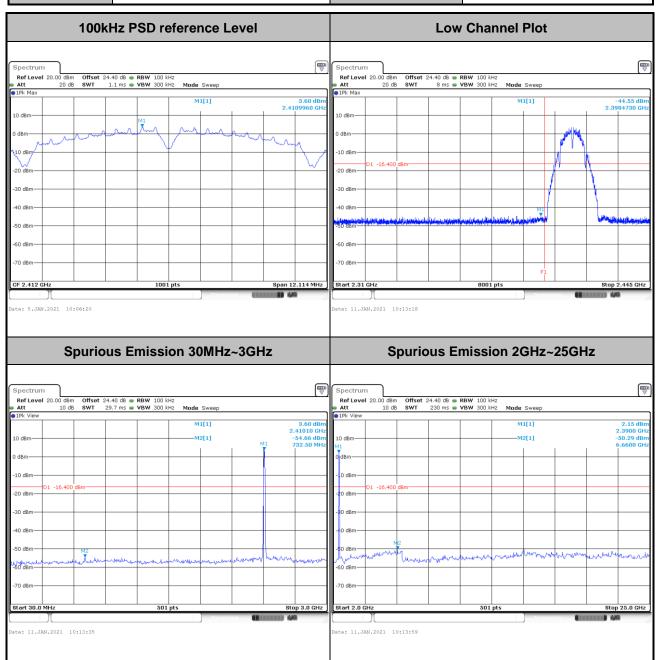


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Number of TX = 2, Ant. 2 (Measured)

Test Mode: 802.11b Test Channel: 01

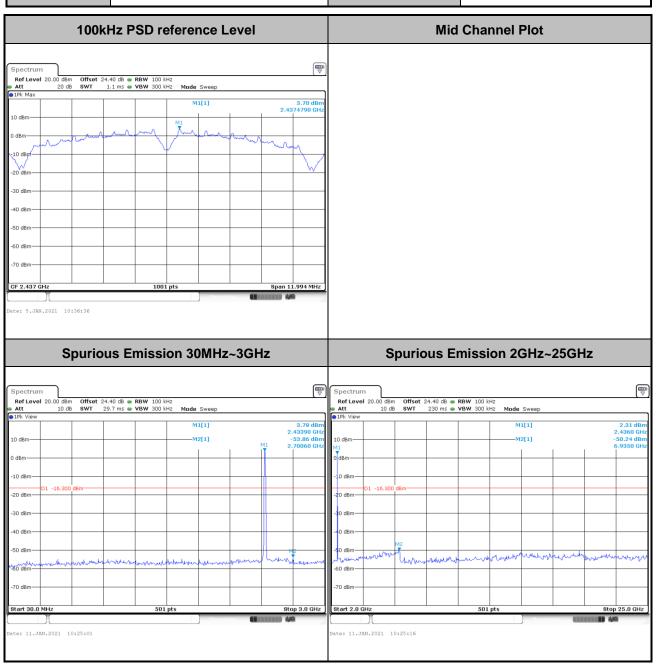
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Test Mode: 802.11b Test Channel: 06

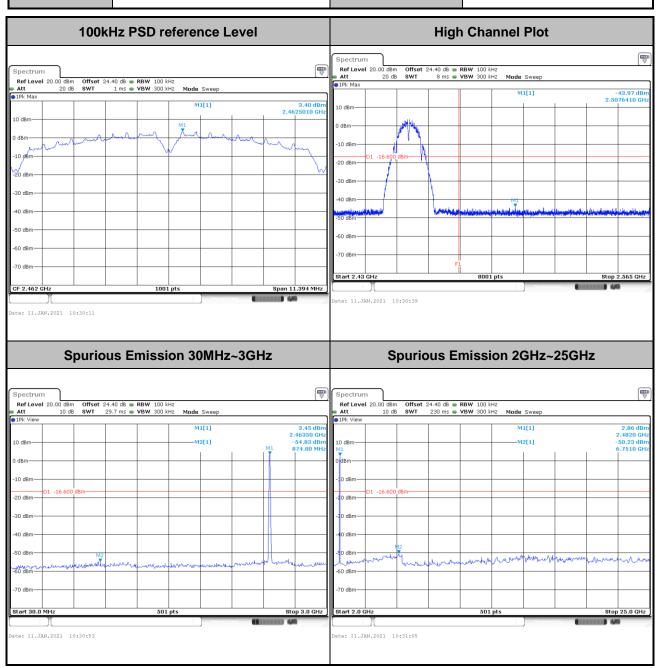
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Test Mode: 802.11b Test Channel: 11

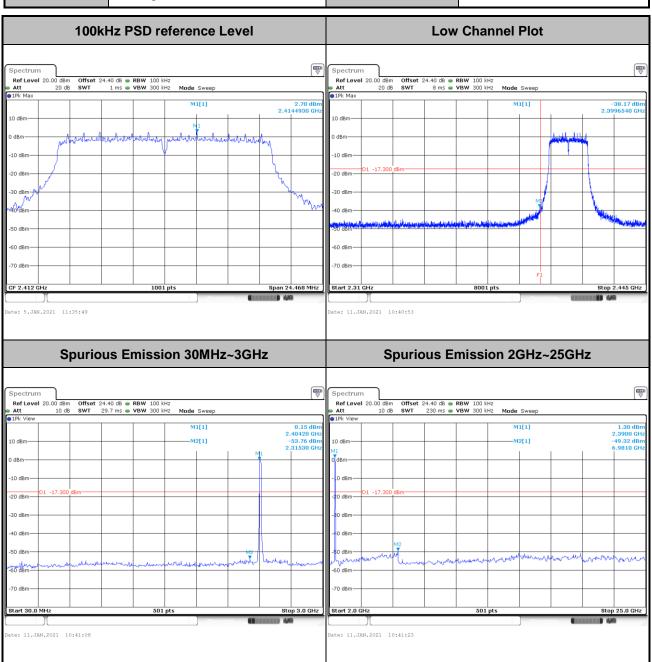
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Test Mode: 802.11g Test Channel: 01

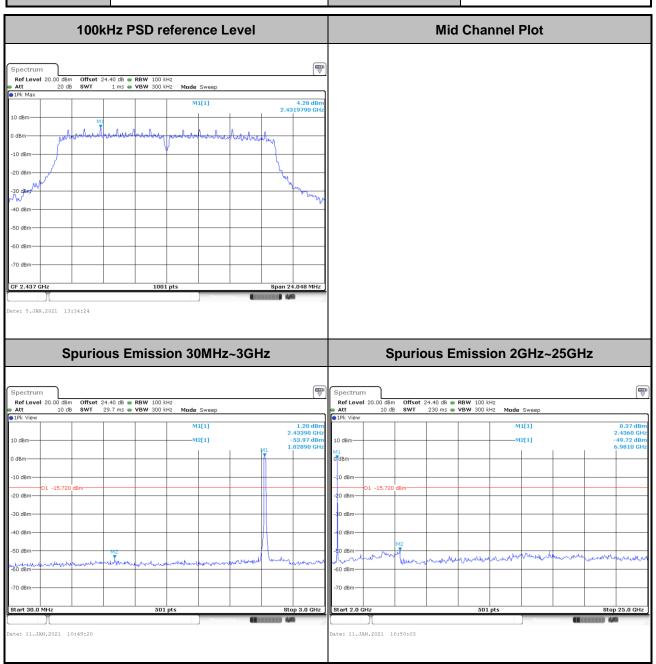
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Test Mode: 802.11g Test Channel: 06

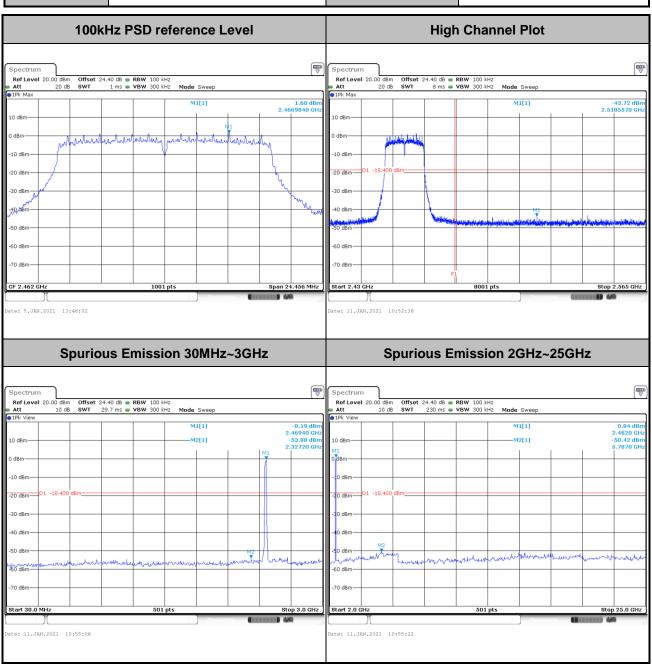
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Test Mode: 802.11g Test Channel: 11

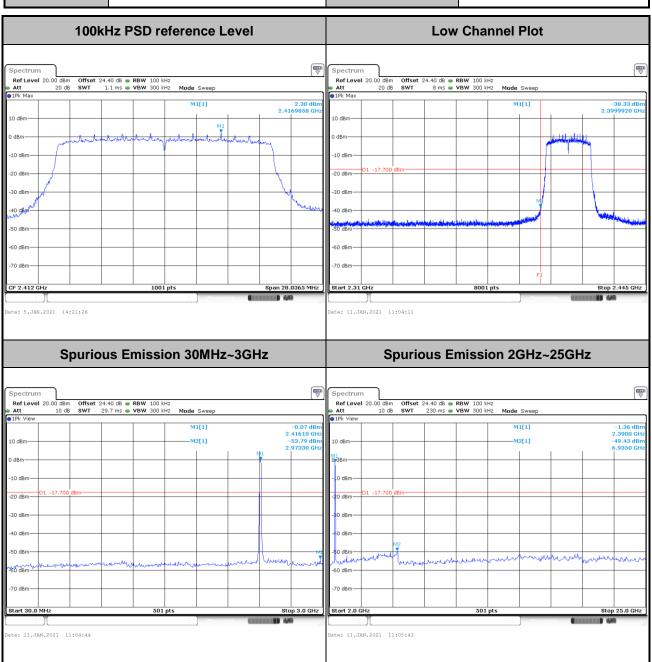
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Test Mode: 802.11ax HE20 Test Channel: 01 Full RU

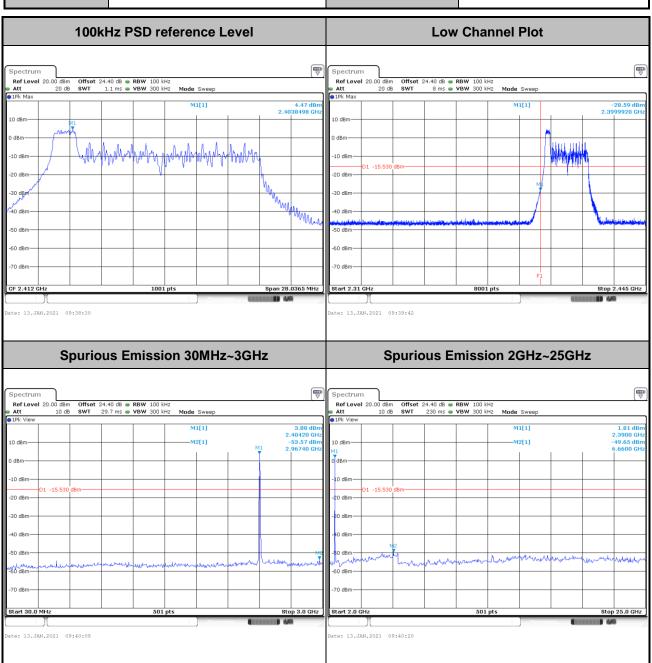
Report No.: FR0D2215C



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Test Mode: 802.11ax HE20 Test Channel: 01 Partial RU 26/0

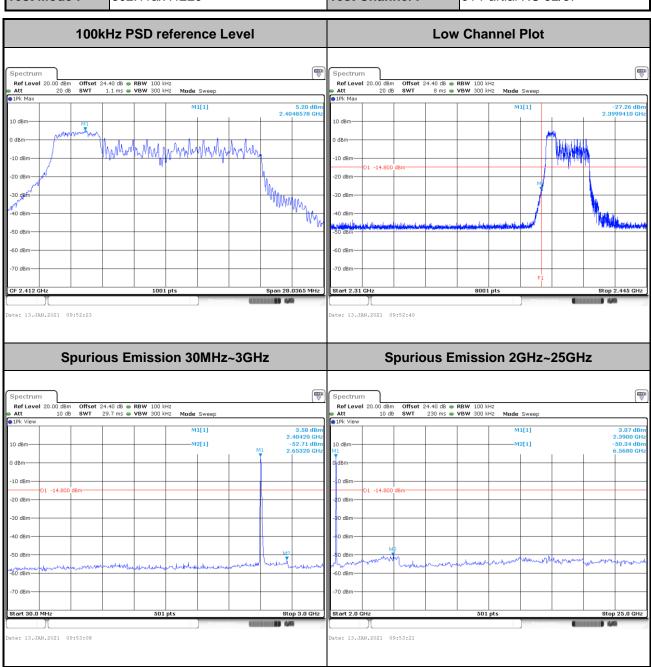
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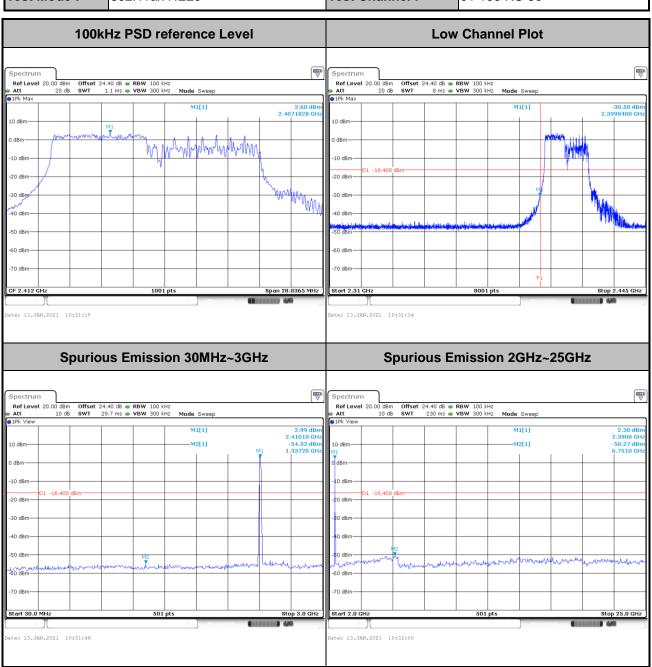
Test Mode: 802.11ax HE20 Test Channel: 01 Partial RU 52/37

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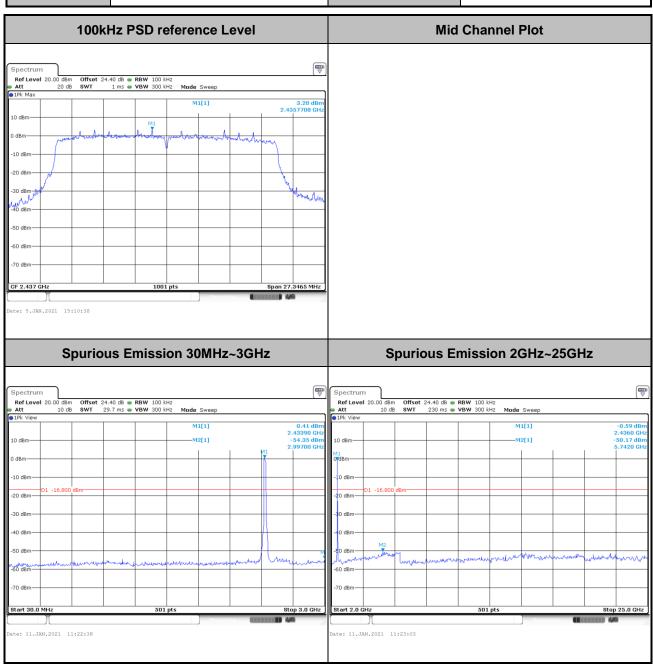
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Test Mode: 802.11ax HE20 Test Channel: 06 Full RU

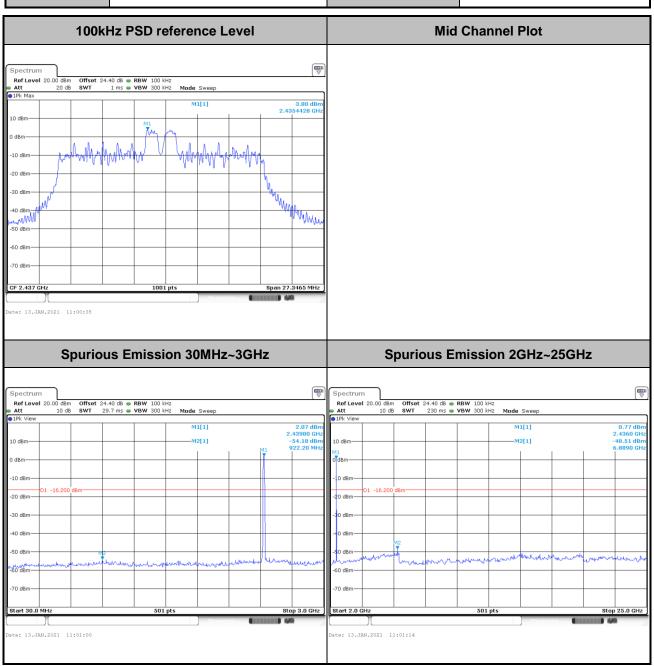
Report No.: FR0D2215C



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Test Mode: 802.11ax HE20 Test Channel: 06 Partial RU 26/4

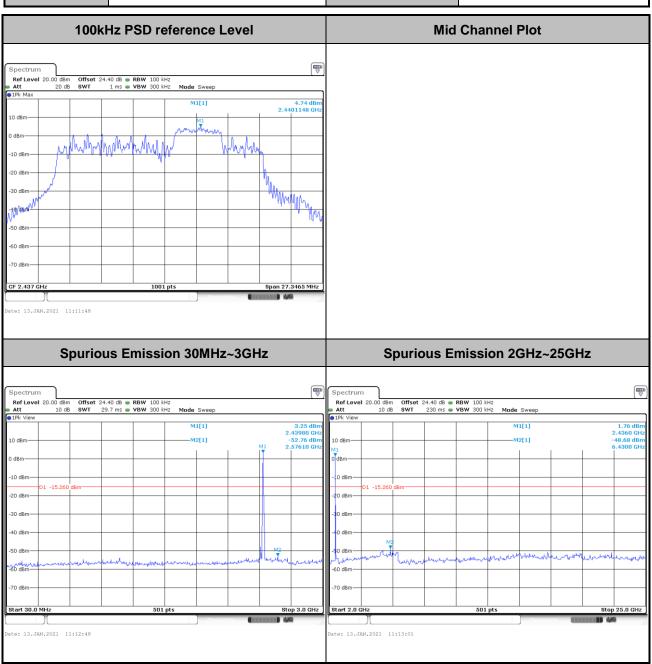
Report No.: FR0D2215C



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Test Mode: 802.11ax HE20 Test Channel: 06 Partial RU 52/39

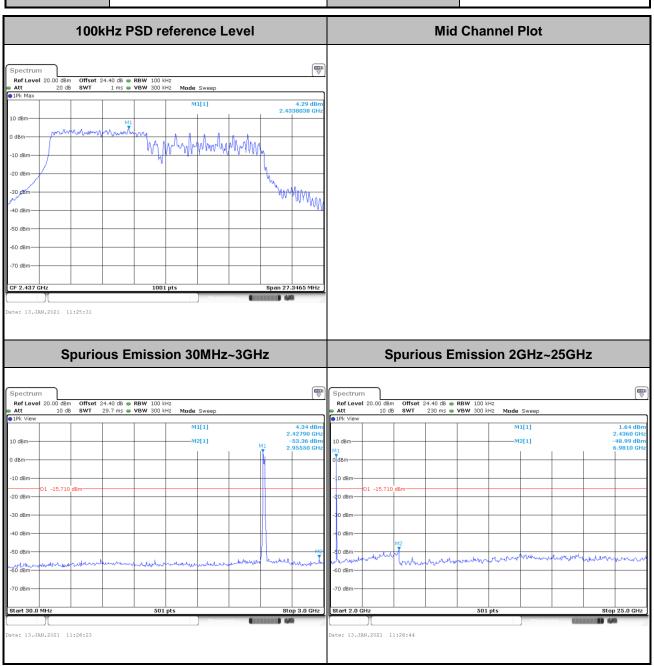
Report No.: FR0D2215C



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Test Mode: 802.11ax HE20 Test Channel: 06 Partial RU 106/53

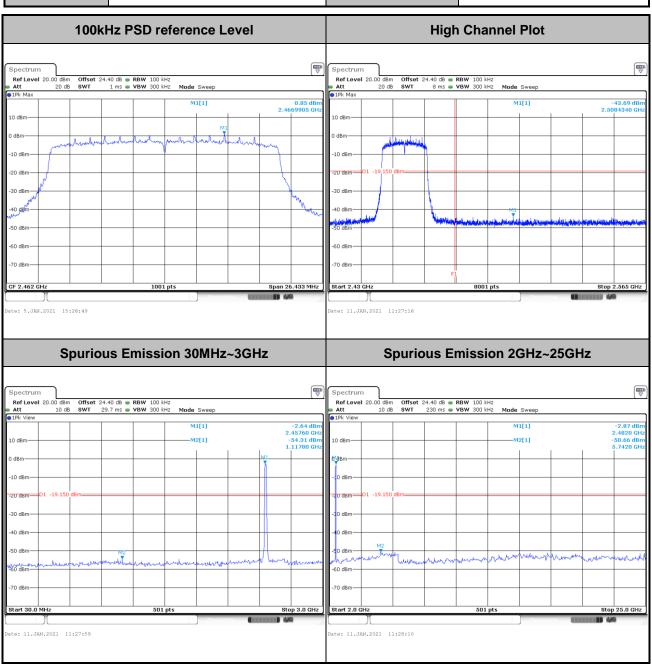
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Test Mode: 802.11ax HE20 Test Channel: 11 Full RU

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