FCC RADIO TEST REPORT

FCC ID : APYHRO00283 Equipment : Wireless router

Applicant : SHARP CORPORATION

1 Takumi-cho, Sakai-ku, Sakai City, Osaka, Japan 590-8522

Report No.: FR900422-06A

Manufacturer: SHARP CORPORATION

2-13-1, HACHIHONMATSU-IIDA, HIGASHI-HIROSHIMA-SHI,

HIROSHIMA PREFECTURE 739-0192, JAPAN

Standard : FCC Part 15 Subpart C §15.247

The product was received on Dec. 10, 2019 and testing was started from Dec. 23, 2019 and completed on Feb. 13, 2020. 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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.

Approved by: Louis Wu

Lunis Win

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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History of this test report

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Report No.	Version	Description	Issued Date
FR9O0422-06A	01	Initial issue of report	Feb. 17, 2020

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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	-	
3.4	15.247(d)	Conducted Band Edges		Pass	-
3.4		Conducted Spurious Emission	Pass	-	
3.5 15.247(d) Radiated Band Edges and Radiated Sp Emission		Radiated Band Edges and Radiated Spurious Emission	Pass	Under limit 3.12 dB at 7500.000 MHz	
3.6	15.207	AC Conducted Emission	Pass	Under limit 11.72 dB at 0.442 MHz	
3.7	15.203 & 15.247(b)	Antenna Requirement	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: Lucy Wu

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1 General Description

1.1 Product Feature of Equipment Under Test

WCDMA/LTE, and Wi-Fi 2.4GHz 802.11b/g/n/ax.

Product Specification subjective to this standard				
	WWAN:			
	<ant. 1="">: PIFA Antenna</ant.>			
Antonna Tyna	<ant. 2="">: Coupling type (LDS) Antenna</ant.>			
Antenna Type	WLAN:			
	<ant. 1="">: Loop Antenna</ant.>			
	<ant. 2="">: Loop Antenna</ant.>			

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1.2 Modification of EUT

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

1.3 Testing Location

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

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory		
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855		
Test Site No.	Sporton Site No. 03CH15-HY		

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

FCC designation No.: TW1190 and TW0007

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1.4 Applicable Standards

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

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- 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. 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 for CDD Mode Ant. 2 / Ant. 1+2; Y plane for CDD Mode Ant. 1 / TXBF 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
2400-2483.5 MHz	3	2422	9	2452
2400-2463.5 IVITZ	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.

Single Mode

omgro mous				
Modulation	Data Rate			
802.11b	1 Mbps			
802.11g	6 Mbps			
802.11n HT20	MCS0			
802.11n HT40	MCS0			
802.11ax HE20	MCS0			
802.11ax HE40	MCS0			

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MIMO Mode

Modulation	Data Rate
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0

TXBF Mode

Modulation	Data Rate
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0

	Test Cases					
AC	Mode 1:	LTE Band 5 Link + WLAN (2.4GHz) Link + USB Cable (Charging from AC				
Conducted Emission		Adapter)				

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<CDD Mode>

Ch. #	2400-2483.5 MHz			
Cn. #	802.11 b	802.11 g	802.11n HT20	802.11n HT40
Low	01	01	01	03
Middle	06	06	06	06
High	11	11	11	09

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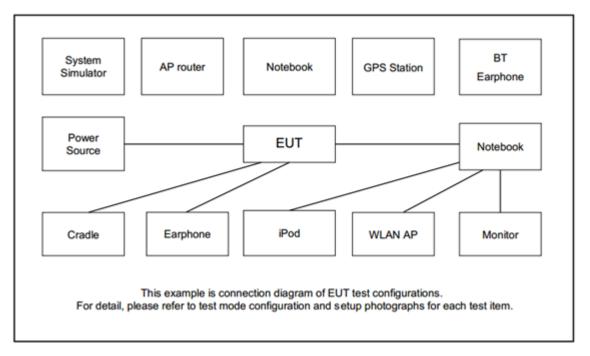
Ch. #	2400-2483.5 MHz		
	802.11ax HE20	802.11ax HE40	
Low	01	03	
Middle	06	06	
High	11	09	

<TXBF Mode>

Ch. #	2400-2483.5 MHz			
	802.11n HT20	802.11n HT40	802.11ax HE20	802.11ax HE40
Low	01	03	01	03
Middle	06	06	06	06
High	11	09	11	09

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System



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2.4 Support Unit used in test configuration and system

ltem	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMW 500	N/A	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude E3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	N/A	N/A	N/A	N/A	N/A

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2.5 EUT Operation Test Setup

The RF test items, utility "QRCT (4.0.00142)" was installed in EUT 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.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to another EUT by power under the normal operation. The "QRCT (4.0.00142)" software tool was used to enable the EUT to transmit signals continuously.

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 10dB 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.

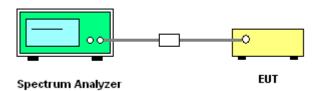
3.1.3 Test Procedures

- 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 to the maximum power setting and enable the EUT 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

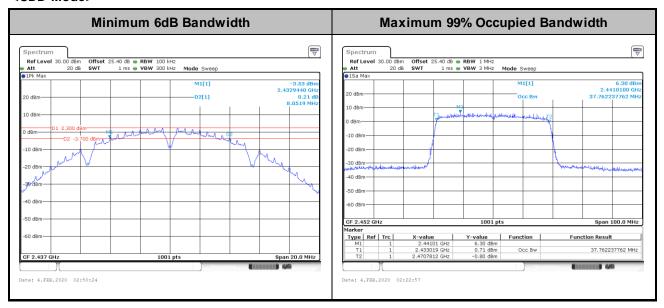


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3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

<CDD Mode>



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

<TXBF Modes>



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 2400-2483.5MHz, the limit for output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the 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 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

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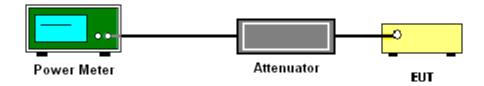
3.2.2 Measuring Instruments

See list of measuring equipment of 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 was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.
- 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 8dBm in any 3kHz 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.
- Set to the maximum power setting and enable the EUT 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.

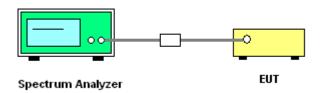
If measurements performed using method (2) plus 10 log (N) exceeds the emission limit, the test should choose method (1) before declaring that the device fails the emission limit.

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

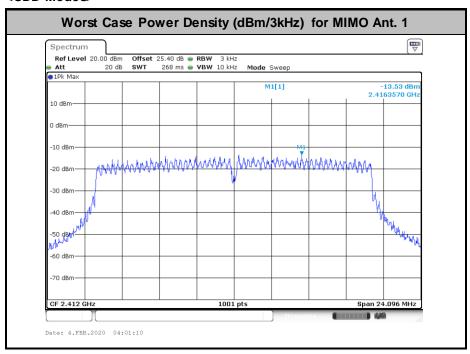


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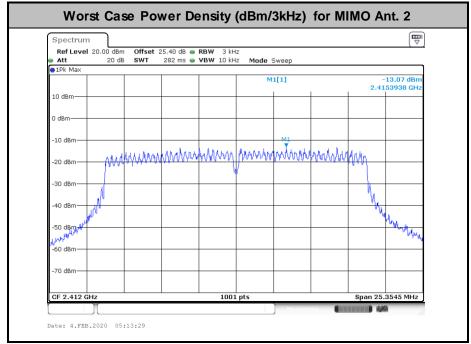
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

<CDD Modes>

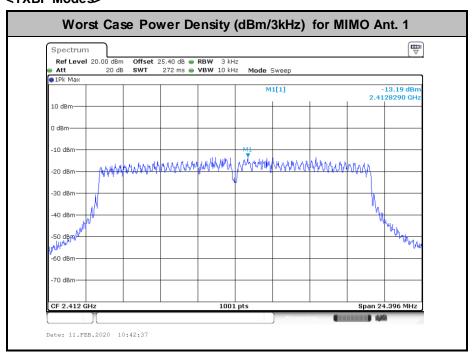


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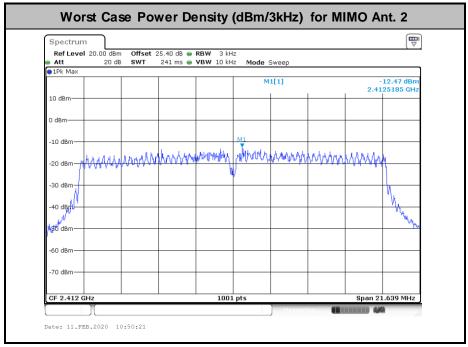


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<TXBF Modes>



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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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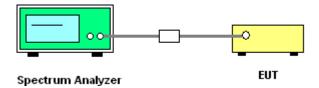
3.4.2 Measuring Instruments

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.
- Set to the maximum power setting and enable the EUT 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

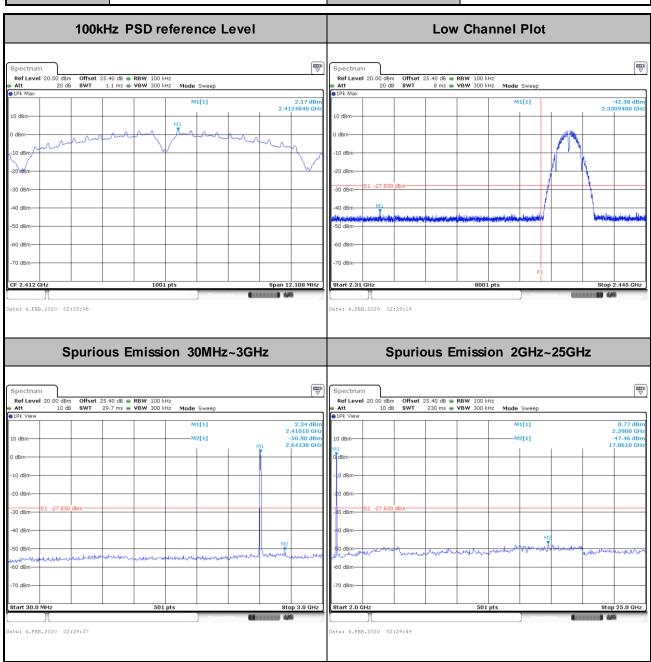
Test Engineer :	Derek Hsu	Temperature :	21~25 ℃
		Relative Humidity:	51~54%

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<CDD Mode>

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

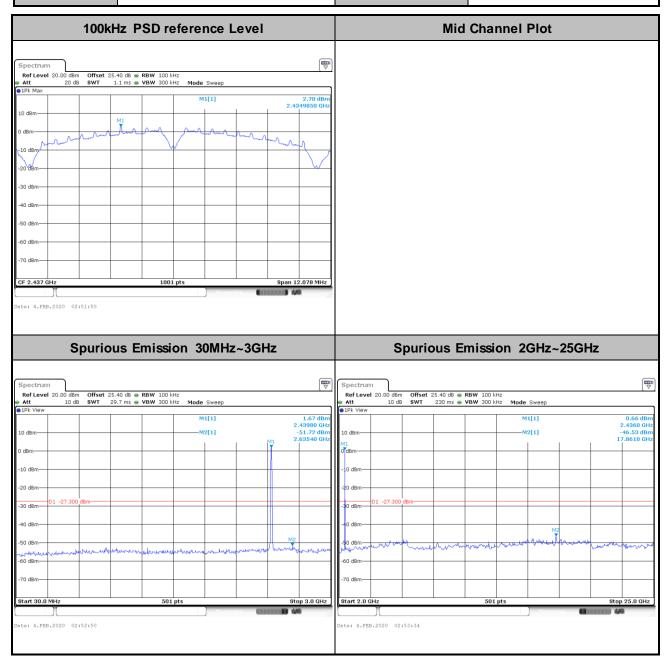
Test Mode: 802.11b Test Channel: 01



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Test Mode: 802.11b Test Channel: 06

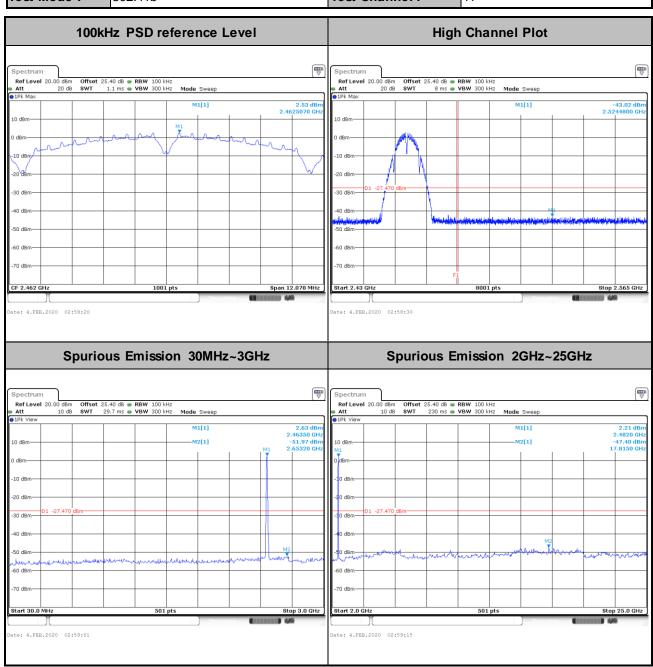
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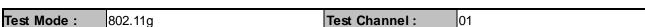
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Test Mode: 802.11b Test Channel: 11

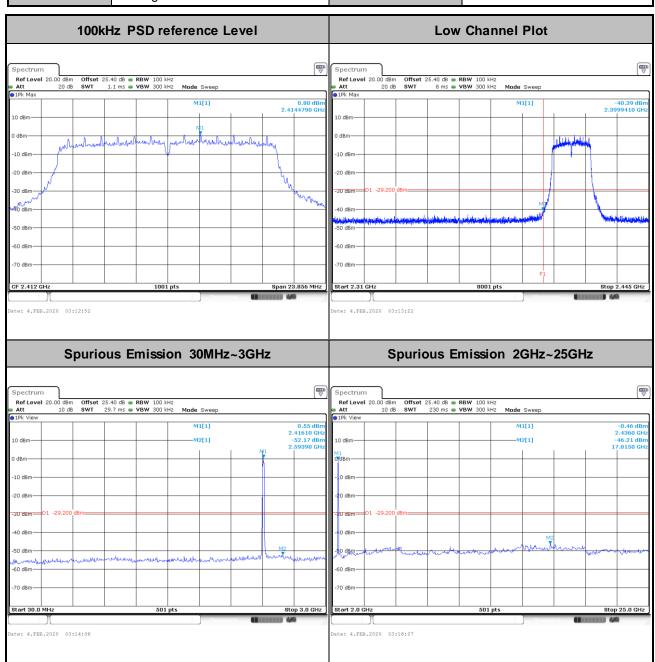
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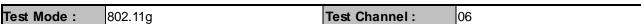
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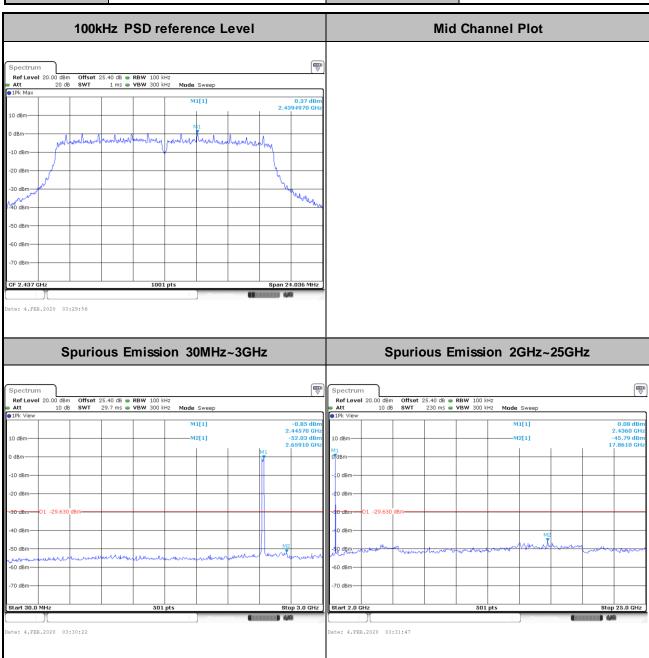
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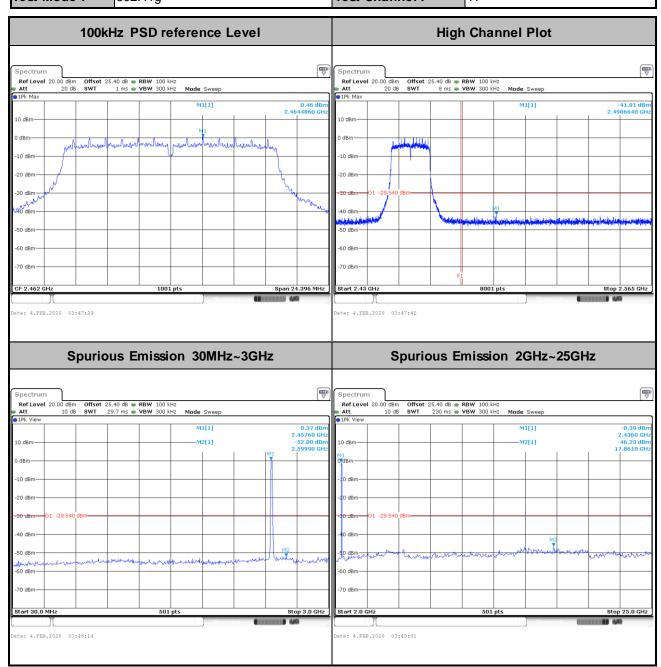
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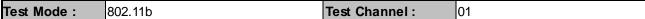
Test Mode: 802.11g Test Channel: 11

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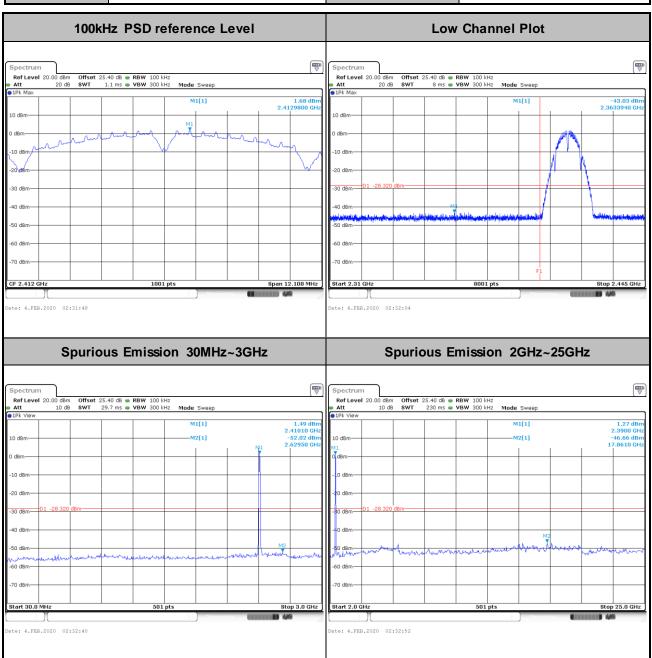


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Number of TX = 1, Ant. 2 (Measured)



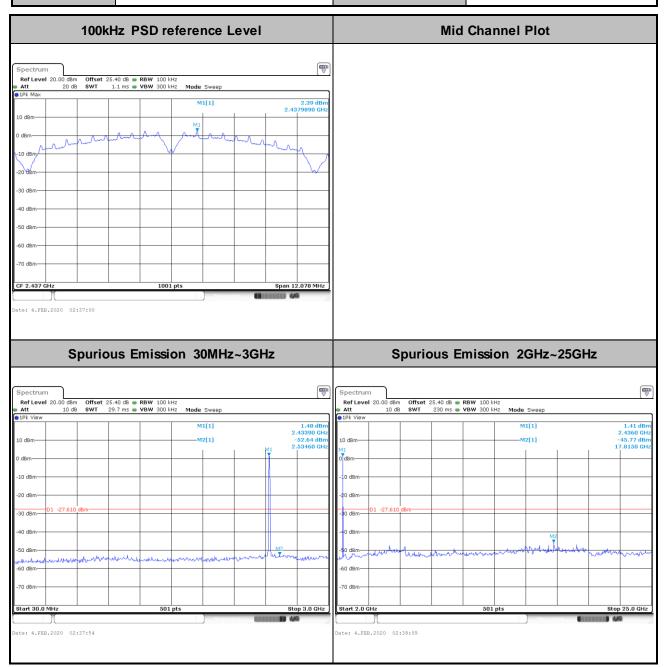
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Test Mode: 802.11b Test Channel: 06

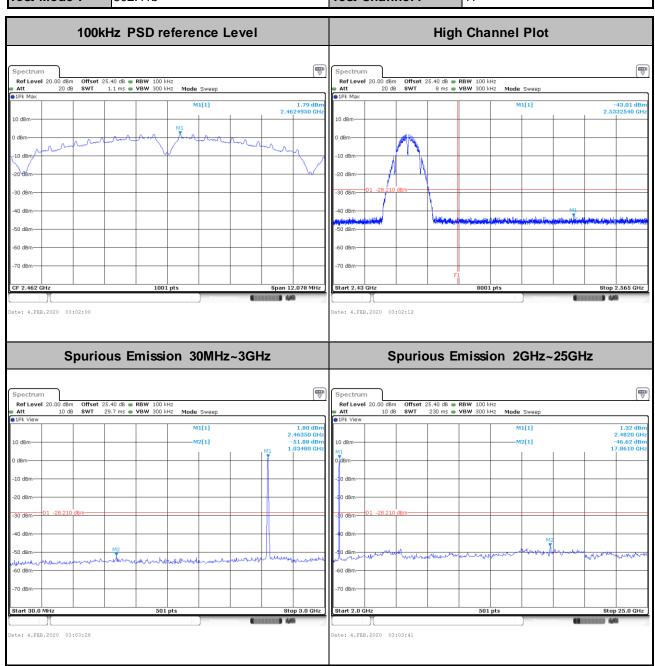
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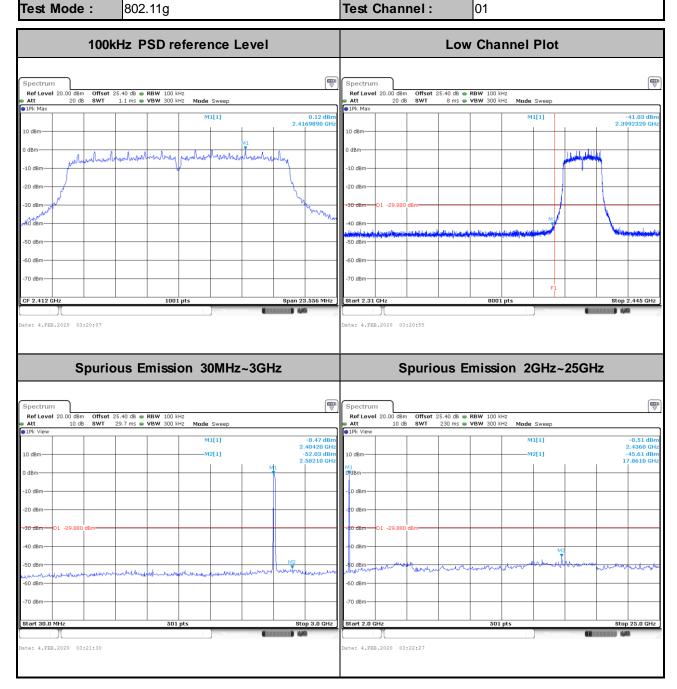
Test Mode: 802.11b Test Channel: 11

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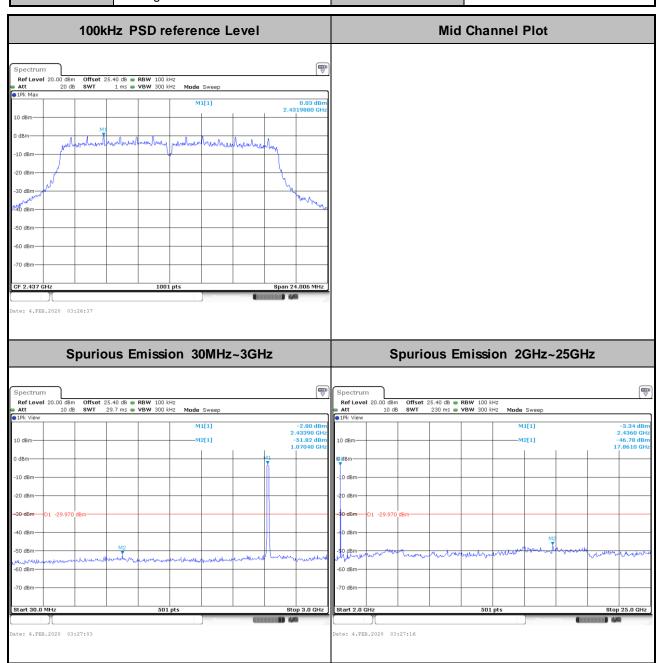
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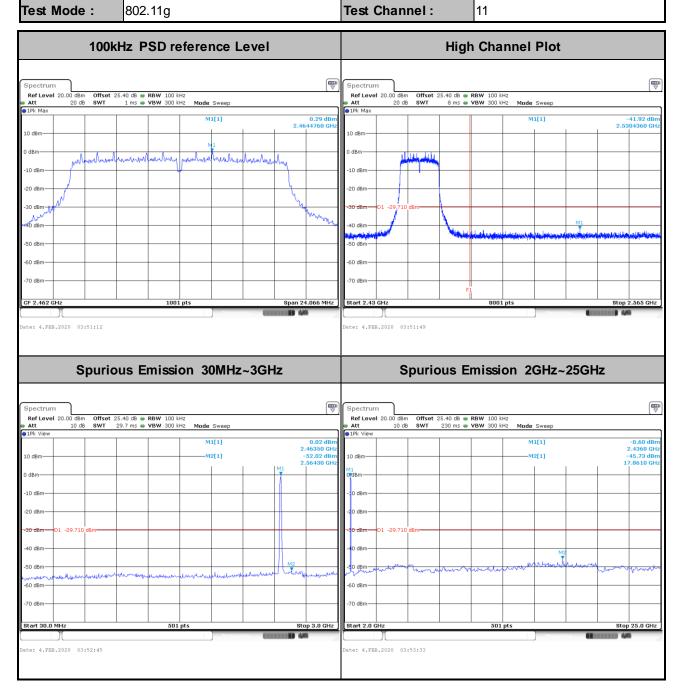
Test Mode: 802.11g Test Channel: 06

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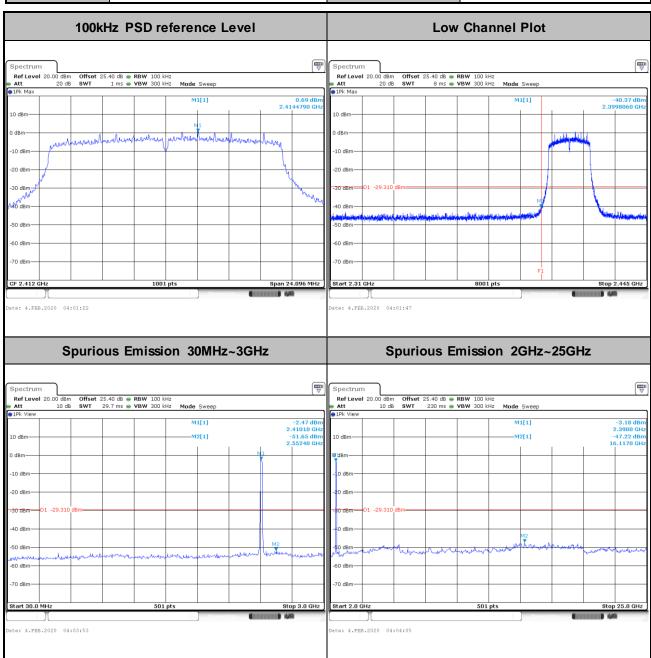


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Number of TX = 2, Ant. 1 (Measured)

Test Mode: 802.11n HT20 Test Channel: 01

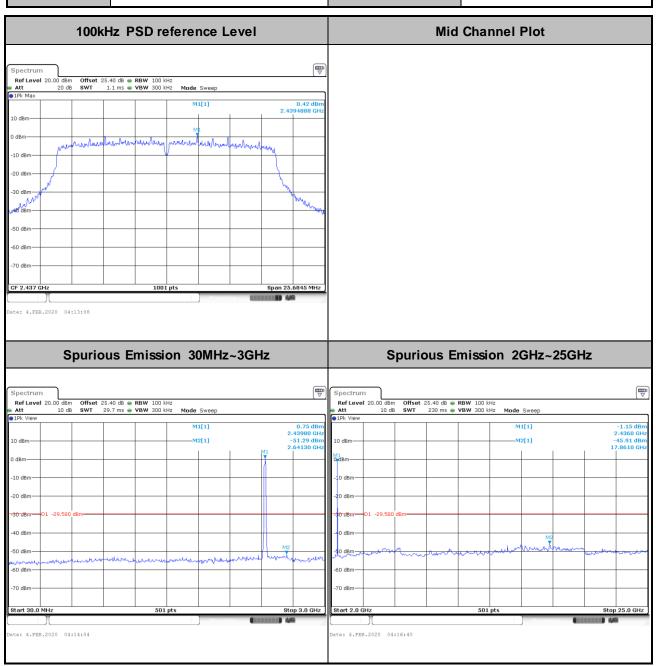
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Test Mode: 802.11n HT20 Test Channel: 06

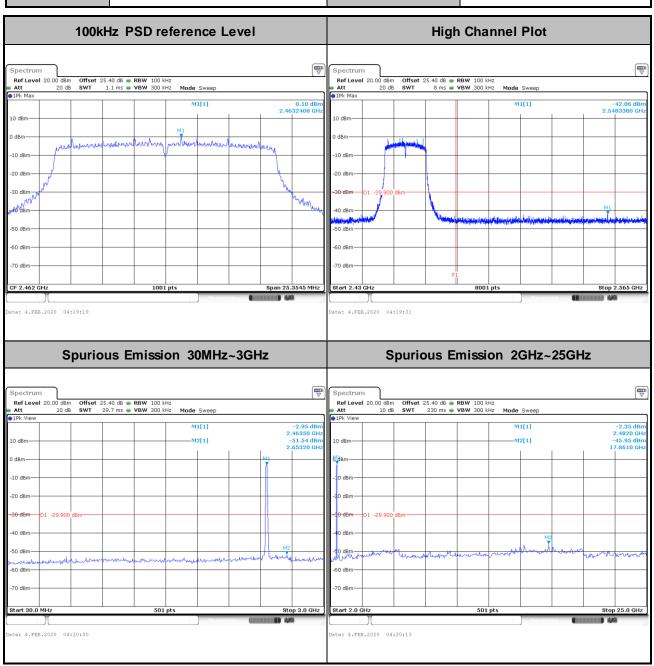
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Test Mode: 802.11n HT20 Test Channel: 11

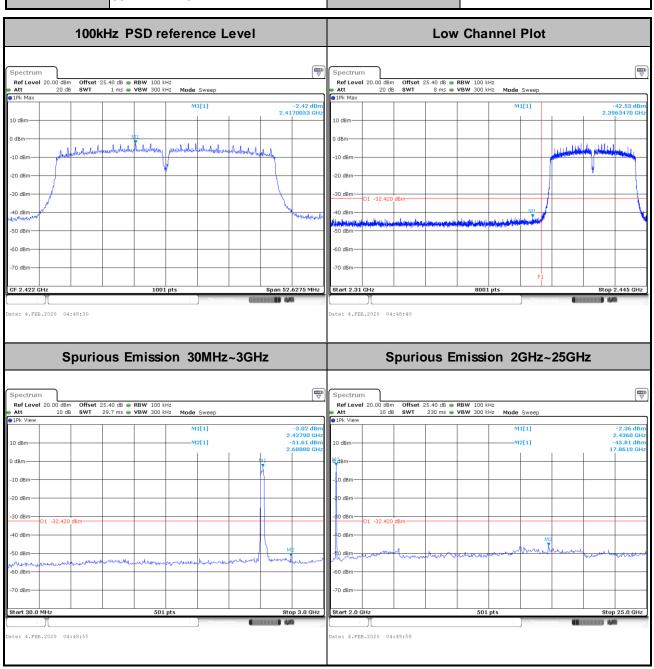
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Test Mode: 802.11n HT40 Test Channel: 03

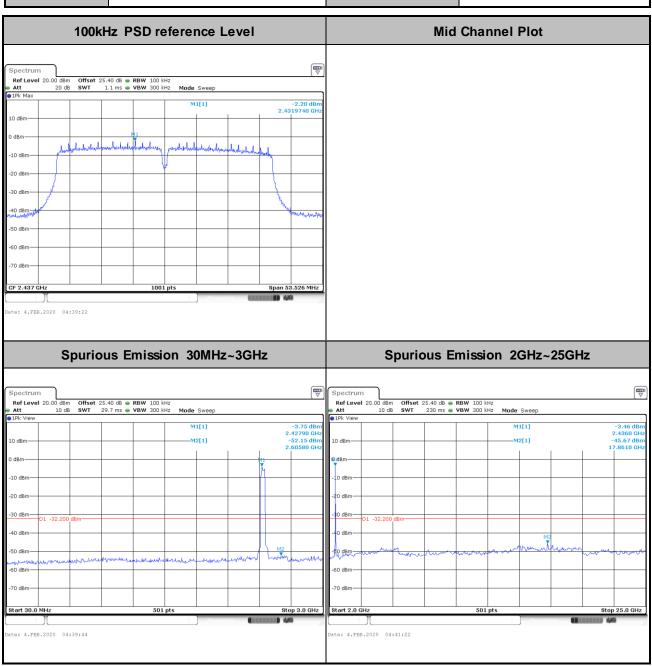
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Test Mode: 802.11n HT40 Test Channel: 06

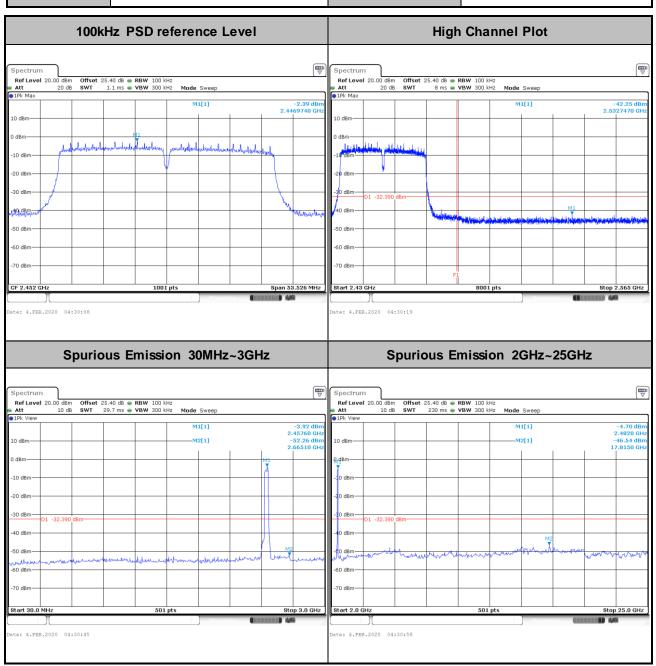
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Test Mode: 802.11n HT40 Test Channel: 09

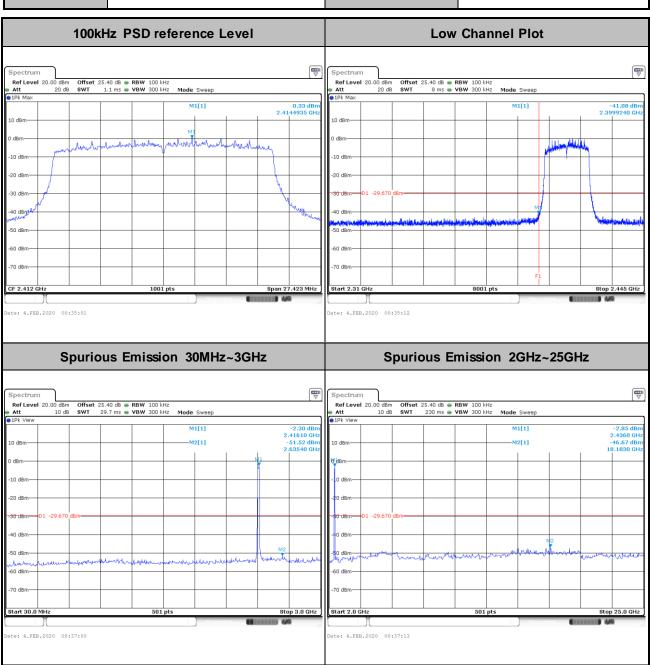
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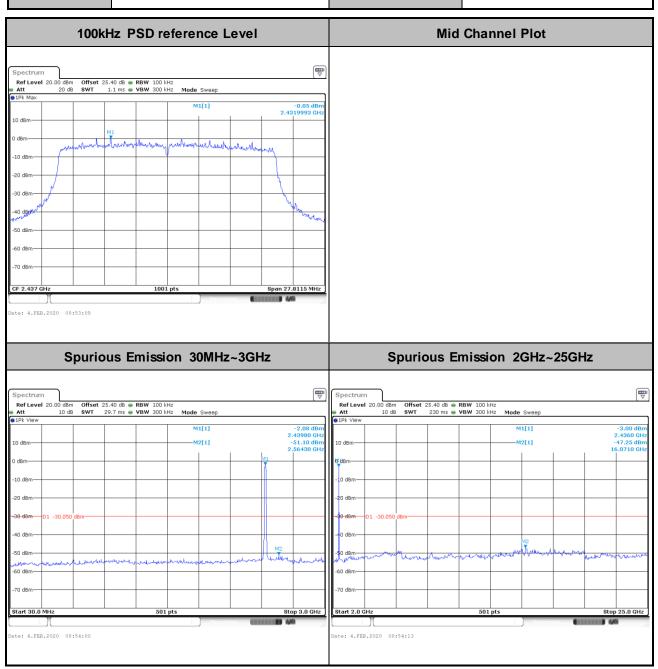
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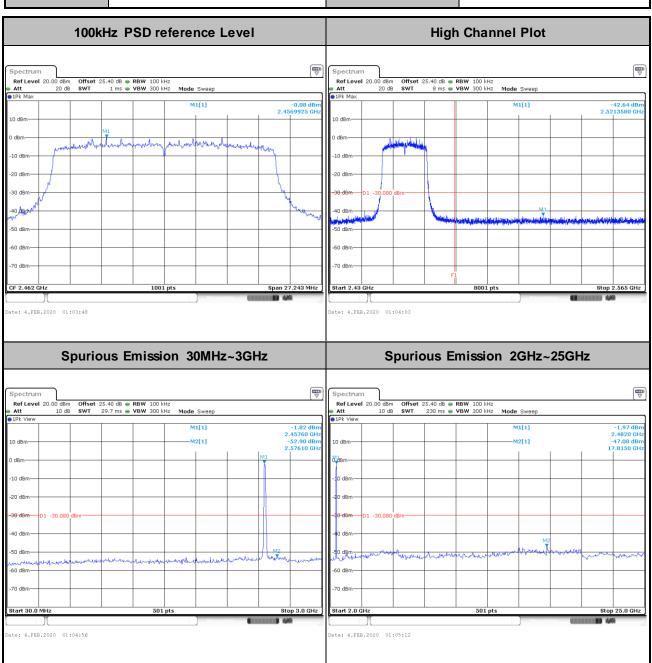
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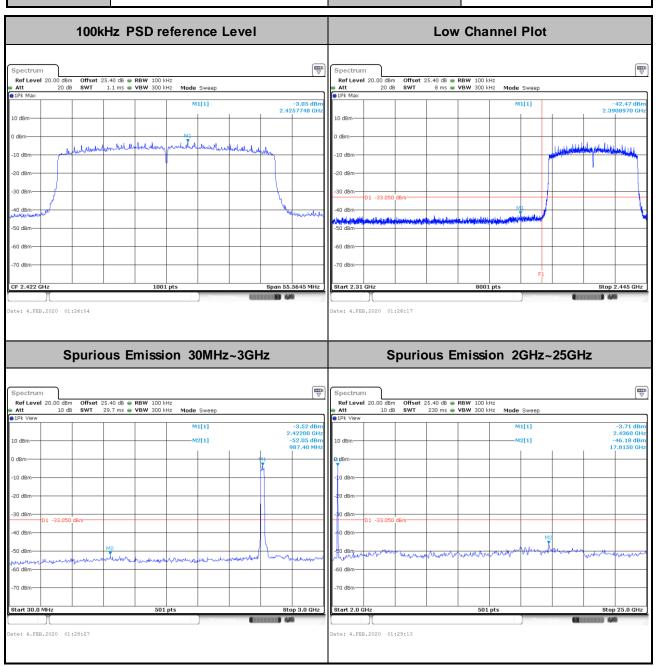
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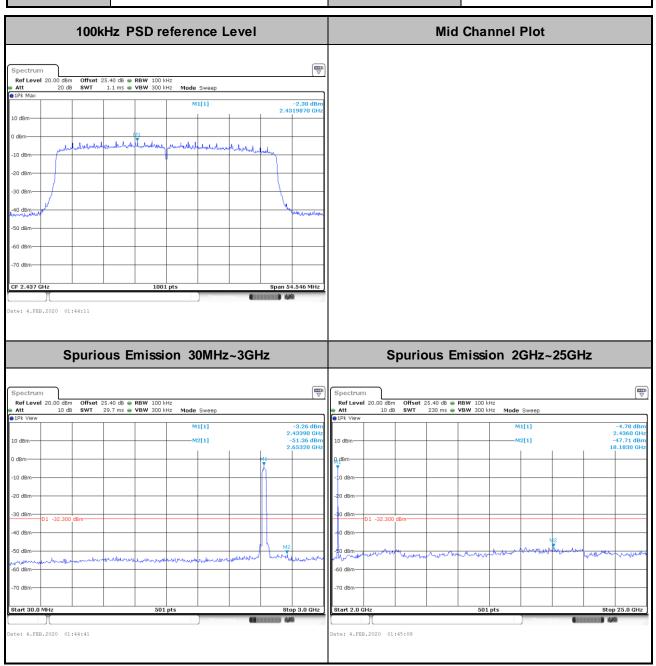
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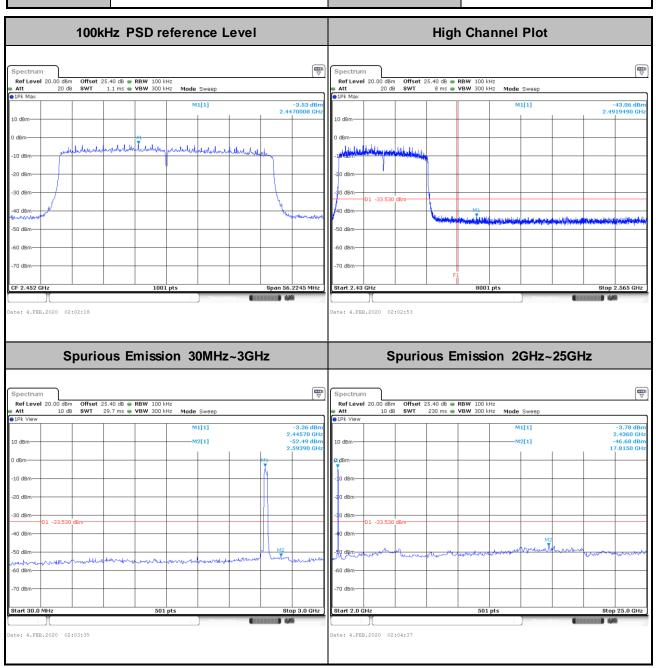
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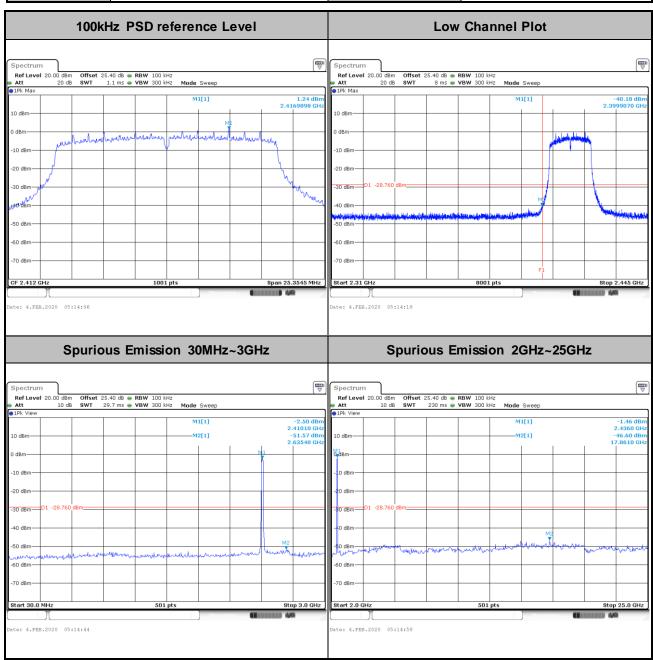


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Number of TX = 2, Ant. 2 (Measured)

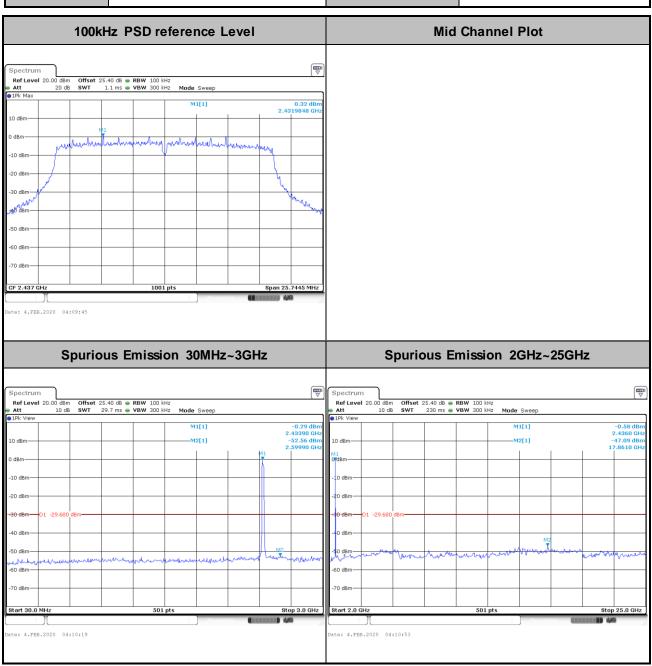
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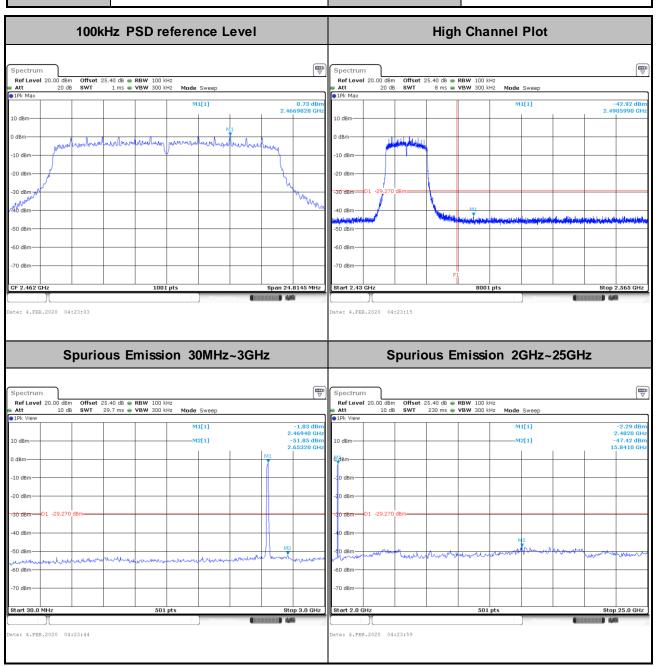
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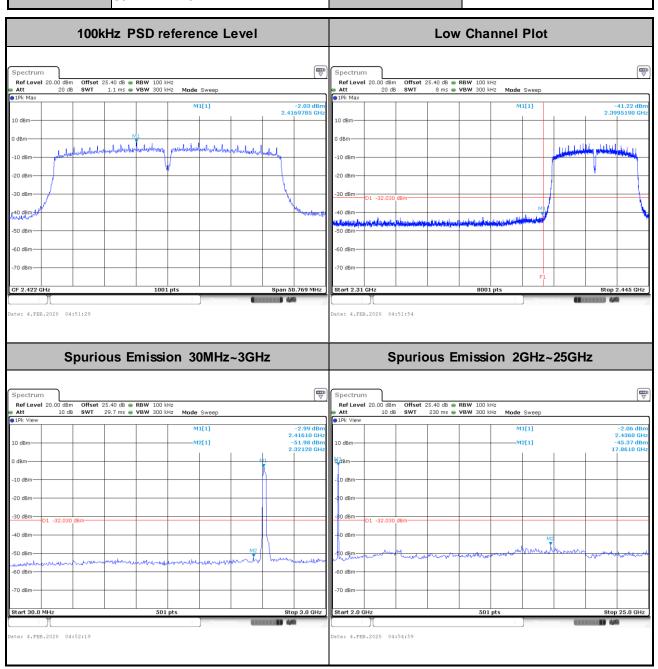
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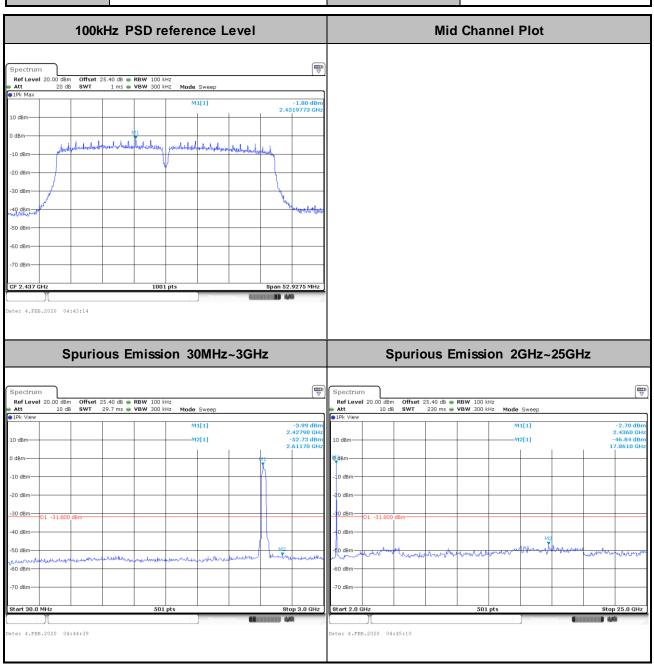
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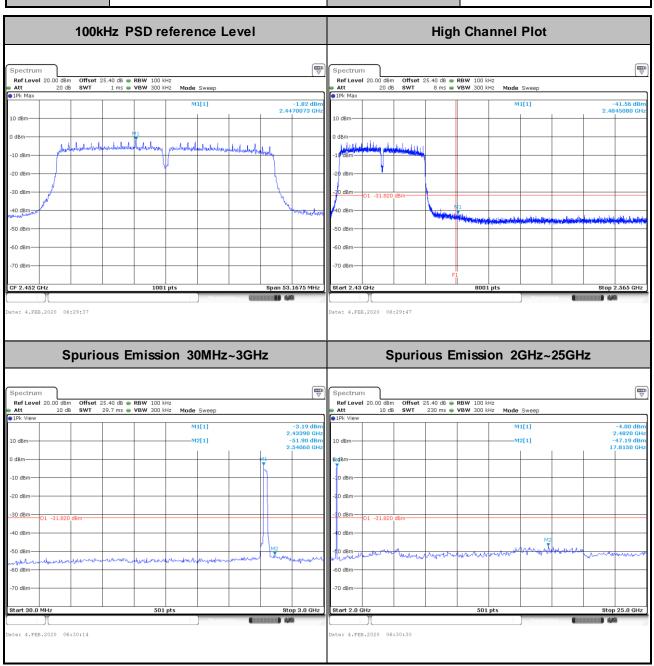
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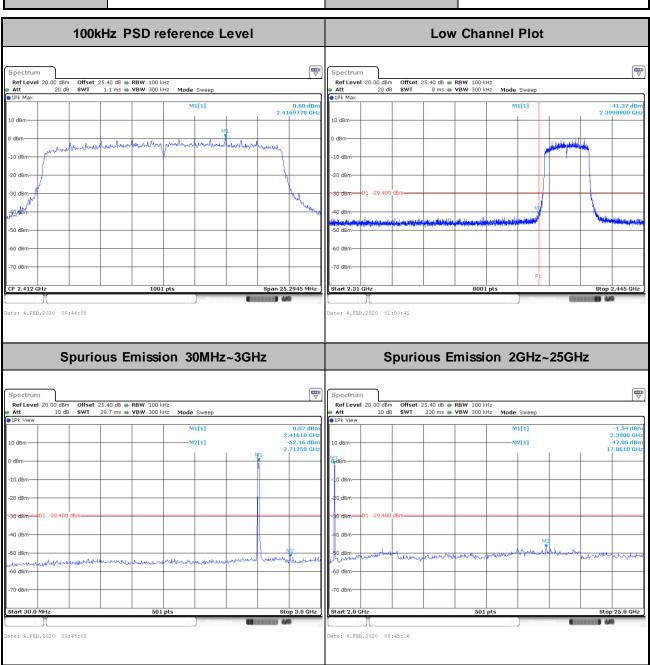
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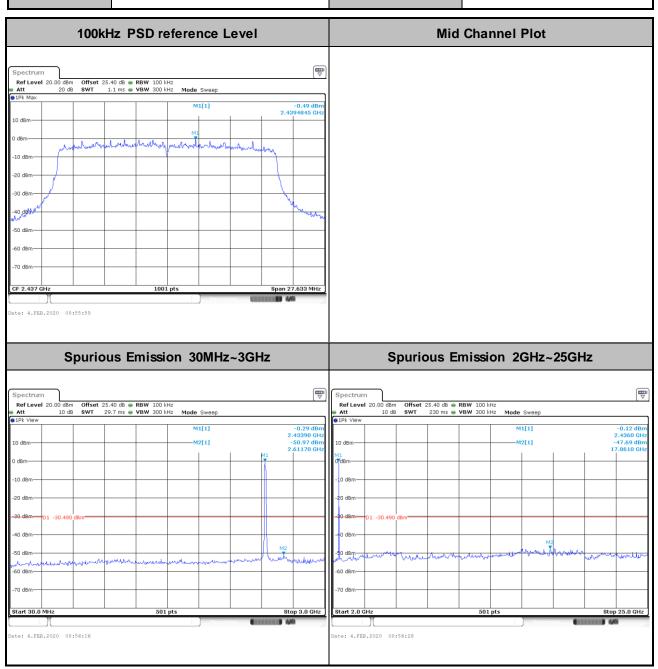
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