



FCC RADIO TEST REPORT

FCC ID : UZ7TCX01G
Equipment : Touch Computer
Brand Name : Zebra
Model Name : TCX01G
Applicant : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
Manufacturer : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
Standard : FCC Part 15 Subpart E §15.407

The product was received on Jul. 14, 2026 and testing was performed from Jul. 25, 2026 to Sep. 20, 2026. 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 variant 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.

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

Report No.	Version	Description	Issue Date
FR662706I	01	Initial issue of report	Sep. 29, 2026



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.407(a)(11)	26dB Emission Bandwidth	Pass	See Note
-	2.1049	99% Occupied Bandwidth	Pass	See Note
3.1	15.407(a) (9)	Fundamental Maximum EIRP	Pass	-
-	15.407(a) (9)	Fundamental Power Spectral Density	Pass	See Note
-	15.407(b)	In-Band Emissions (Channel Mask)	Pass	See Note
-	15.407(d)(6)	Contention Based Protocol	Pass	See Note
3.5	15.407(d)(10)	Transmit Power Control (TPC)	Pass	-
3.6	15.407(b)	Unwanted Emissions	Pass	-
-	15.207	AC Conducted Emission	Pass	See Note
3.8	15.203	Antenna Requirement	Pass	-

Note:

- This is to request a Class II Permissive Change application for above referenced device. The change filed under this application are:
 - Remove one antenna. All antennas are slightly tuned to optimize best performance.
 - USB Sub-board: Redesigned to accommodate an additional speaker.
 - Pogo pins change from 2 to 6 for USB high speed transmission.
 - Hall sensor is added.
 - Add new HVIN TC70UG for the changed device.

All the test cases were performed on original report which can be referred to Sporton Report Number FR503114I.

Based on the original report, the related test case was verified.

- The CBP evaluation was performed in the Indoor Client test report under FCC ID: UZ7TCX01G. The Standard Client and VLP Client modes utilize the same CBP implementation and operating characteristics as the evaluated Indoor Client configuration. As the antenna gains of this variant device are lower than those of the evaluated configuration, the CBP test results are considered representative and applicable to these modes.

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/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 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: Wei Chen

Report Producer: Julia Chang



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
EUT supports Radios application	Bluetooth BR/EDR/LE WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 WLAN 11be EHT20/ EHT40/EHT80/EHT160/EHT320 GSM/WCDMA/HSPA/LTE/5G NR/ NFC/UHF RFID /GNSS
FW Version	eris_A15_userdebug_GMS_RelKey_2025-10-07-205955_main_SE
SW Version	eris_A15_userdebug_GMS_RelKey_2025-10-07-205955_main_SE
MFD	30-Sep-25
EUT Stage	Identical Prototype

Remark: The EUT's information above is declared by manufacturer.

Specification of Accessories				
Power Supply 1	Brand Name	Zebra	Part Number	PWR-BUA5V16W0WW
Power Supply 2	Brand Name	Delta	Model Name	ADP-36PH B
DC LINE CORD	Brand Name	Zebra	Part Number	CBL-DC-383A1-01
AC LINE CORD	Brand Name	Zebra	Part Number	50-16000-182R
USB Cable 1 USB-C to C Cable	Brand Name	Zebra	Part Number	CBL-EC5X-USBC3A-01
USB Cable 2 for USB A Scanners	Brand Name	Zebra	Part Number	CBA-U46-S07ZAR
Scanner	Brand Name	Zebra	Model Name	KC401-SCNR
Handheld Scanner	Brand Name	Zebra	Model Name	DS3608
Wall Mounting Bracket (100 VESA)	Brand Name	Zebra	Part Number	KT-152097-01
Wall Mounting Bracket (w/pwr supply holder)	Brand Name	Zebra	Part Number	KT-152097-03
Wall Mounting Bracket (Slim)	Brand Name	Zebra	Part Number	KT-152098-03
Pole Mounting (w/pwr supply holder)	Brand Name	Zebra	Part Number	KT-152096-03
CC6000 Print Kiosk mounting kit	Brand Name	Zebra	Part Number	BRKT-DPA-SK1-01

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Frequency Range	5925 MHz ~ 6425 MHz 6425 MHz ~ 6525 MHz 6525 MHz ~ 6875 MHz 6875 MHz ~ 7125 MHz
Antenna Type	<Ant. 7>: PIFA Antenna <Ant. 6>: PIFA Antenna
Antenna Gain	<5925 MHz ~ 6425 MHz> <Ant. 7>: 0.60 dBi <Ant. 6>: 0.60 dBi <6425 MHz ~ 6525 MHz> <Ant. 7>: -0.30 dBi <Ant. 6>: 0.60 dBi <6525 MHz ~ 6875 MHz> <Ant. 7>: -0.30 dBi <Ant. 6>: 0 dBi <6875 MHz ~ 7125 MHz> <Ant. 7>: -0.50 dBi <Ant. 6>: -0.90 dBi
Type of Modulation	802.11a : OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ax : OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM) 802.11be: OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM/4096-QAM)

Remark:

1. MIMO Ant. 7+6 Directional Gain is a calculated result from MIMO Ant. 7 and MIMO Ant. 6. The formula used in calculation is documented in section 1.2.1.
2. Power of MIMO Ant. 7 + Ant. 6 is a calculated result from sum of the power MIMO Ant. 7 and MIMO Ant. 6.
3. 802.11be Support Tx Beamforming mode, and the manufacturer declares that Tx Beamforming power/EIRP is less than CDD mode 3dbm, so CDD mode cover Tx Beamforming mode.
4. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2.1 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 $N_{ANT} \leq 4$.

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

For PSD measurements, the directional gain calculation.

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

where

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

N_{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 k th antenna.

As minimum $N_{SS}=1$ is supported by EUT, the formula can be simplified as:

Directional gain = $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi

Where $G_1, G_2, \dots, G_N$ denote single antenna gain.

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

			DG for Power (dBi)	DG for PSD (dBi)
	Ant 7 (dBi)	Ant 6 (dBi)		
5925 MHz ~ 6425 MHz	0.60	0.60	0.60	3.61
6425 MHz ~ 6525 MHz	-0.30	0.60	0.60	3.17
6525 MHz ~ 6875 MHz	-0.30	0.00	0.00	2.86
6875 MHz ~ 7125 MHz	-0.50	-0.90	-0.50	2.31

Calculation example:

If a device has two antenna, $G_{ANT7} = 2.06$ dBi; $G_{ANT6} = 1.07$ dBi

Directional gain of power measurement = $\max(2.06, 1.07) + 0 = 2.06$ dBi

Directional gain of PSD derived from formula which is

$10 \times \log \{ \left[10^{(2.06 \text{ dBi} / 20)} + 10^{(1.07 \text{ dBi} / 20)} \right]^2 / 2 \} = 4.59$ dBi

<For SDM Mode>

SDM mode all transmit signals are completely uncorrelated, then

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

The Directional gain = $10 \cdot \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{ANT}]$ dBi

Where $G_1, G_2, \dots, G_N$ denote single antenna gain.

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

			DG for Power (dBi)	DG for PSD (dBi)
	Ant 7 (dBi)	Ant 6 (dBi)		
5925 MHz ~ 6425 MHz	0.60	0.60	0.60	0.60
6425 MHz ~ 6525 MHz	-0.30	0.60	0.60	0.17
6525 MHz ~ 6875 MHz	-0.30	0.00	0.00	-0.15
6875 MHz ~ 7125 MHz	-0.50	-0.90	-0.50	-0.70

Calculation example:

If a device has two antenna, $G_{ANT7} = 2.06$ dBi; $G_{ANT6} = 1.07$ dBi

Directional gain is derived from formula which is

$$10 \times \log \{ \{ [10^{\wedge} (2.06 \text{ dBi} / 10) + 10^{\wedge} (1.07 \text{ dBi} / 10)] \} / 2 \} = 1.59 \text{ dBi}$$

1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 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. TH05-HY, 03CH20-HY, DF02-HY

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

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FCC designation No.: TW3786

1.5 Applicable Standards

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

- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v03
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC Part 15 Subpart E
- ♦ ANSI C63.10-2020

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.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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: 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.

Power of MIMO Ant. 7 + Ant. 6 is a calculated result from sum of the power MIMO Ant. 7 and MIMO Ant. 6.

The device WIFI MIMO support 1S2T (CDD & Tx Beamforming) (Nss=1) mode& SDM (2S2T: Nss=2) mode by manufacturer declared.

For 802.11a, it does not support SDM & Tx Beamforming so the correlated gain for CDD is applied.

For 802.11be mode, in SDM mode the conducted power is set to 3dB higher than TXBF/CDD, Since the maximum array gain for a dual antenna system is 3dB so the TXBF/CDD compliance is met by testing SDM mode as worst mode for LPI power mode.

802.11be support Tx Beamforming mode, and the manufacturer declares that Tx Beamforming power/EIRP is not greater than CDD&SDM mode, so CDD&SDM mode covers Tx Beamforming mode.

The device supports 1S2T (CDD & Tx Beamforming) and 2S2T (SDM) mode;
1S2T: Nss=1, MIMO 2Tx; 2S2T: Nss=2, MIMO 2Tx.

802.11ax support full RU tone and partial RU tone, both full RU and partial are tested for conducted power/PSD in appendix A, for Channel Mask in section 3.4.5, all the other test case were performed with full RU with its maximum power/PSD.



2.1 Carrier Frequency and Channel

BW 20M	Channel	1	5	9	13	17	21	25	29
	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095
BW 40M	Channel	3		11		19		27	
	Freq. (MHz)	5965		6005		6045		6085	
BW 80M	Channel	7				23			
	Freq. (MHz)	5985				6065			
BW 160M	Channel	15							
	Freq. (MHz)	6025							
BW 320M	Channel	31							
	Freq. (MHz)	6105							

BW 20M	Channel	33	37	41	45	49	53	57	61
	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255
BW 40M	Channel	35		43		51		59	
	Freq. (MHz)	6125		6165		6205		6245	
BW 80M	Channel	39				55			
	Freq. (MHz)	6145				6225			
BW 160M	Channel	47							
	Freq. (MHz)	6185							
BW 320M	Channel	63							
	Freq. (MHz)	6265							

BW 20M	Channel	65	69	73	77	81	85	89	93
	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415
BW 40M	Channel	67		75		83		91	
	Freq. (MHz)	6285		6325		6365		6405	
BW 80M	Channel	71				87			
	Freq. (MHz)	6305				6385			
BW 160M	Channel	79							
	Freq. (MHz)	6345							
BW 320M	Channel	95							
	Freq. (MHz)	6425							



BW 20M	Channel	97	101	105	109	113	117	121	125
	Freq. (MHz)	6435	6455	6475	6495	6515	6535	6555	6575
BW 40M	Channel	99		107		115		123	
	Freq. (MHz)	6445		6485		6525		6565	
BW 80M	Channel	103				119			
	Freq. (MHz)	6465				6545			
BW 160M	Channel	111							
	Freq. (MHz)	6505							
BW 320M	Channel	127							
	Freq. (MHz)	6585							

BW 20M	Channel	129	133	137	141	145	149	153	157
	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735
BW 40M	Channel	131		139		147		155	
	Freq. (MHz)	6605		6645		6685		6725	
BW 80M	Channel	135				151			
	Freq. (MHz)	6625				6705			
BW 160M	Channel	143							
	Freq. (MHz)	6665							
BW 320M	Channel	159							
	Freq. (MHz)	6745							

BW 20M	Channel	161	165	169	173	177	181	185	189
	Freq. (MHz)	6755	6775	6795	6815	6835	6855	6875	6895
BW 40M	Channel	163		171		179		187	
	Freq. (MHz)	6765		6805		6845		6885	
BW 80M	Channel	167				183			
	Freq. (MHz)	6785				6865			
BW 160M	Channel	175							
	Freq. (MHz)	6825							
BW 320M	Channel	191							
	Freq. (MHz)	6905							



BW 20M	Channel	193	197	201	205	209	213	217	221
	Freq. (MHz)	6915	6935	6955	6975	6995	7015	7035	7055
BW 40M	Channel	195		203		211		219	
	Freq. (MHz)	6925		6965		7005		7045	
BW 80M	Channel	199				215			
	Freq. (MHz)	6945				7025			
BW 160M	Channel	207							
	Freq. (MHz)	6985							

BW 20M	Channel	225				229			
	Freq. (MHz)	7075				7095			
BW 40M	Channel	227							
	Freq. (MHz)	7085							

BW 20M	Channel	233							
	Freq. (MHz)	7115							

2.2 Test Mode

This device support 26/52/106/242/484/996/2*996/4*996-tone RU, M-RU and channel puncture.

The PSD of partial RU, M-RU and channel puncture are reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

The 802.11be 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, 484-tone RU is covered by 40MHz channel, 996-tone RU is covered by 80MHz channel, 2*996-tone RU is covered by 160MHz channel and 4*996-tone RU is covered by 320MHz channel.

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

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

MIMO Mode

Modulation	Data Rate
802.11be EHT20	MCS0
802.11be EHT320	MCS0

Remark:

1. The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.
2. The detailed Radiated test modes are shown in Appendix B.

MIMO <Ant. 7+6>

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11a	802.11a	802.11a	802.11a
L	Low	001	097	117	189
M	Middle	049	105	149	209
H	High	093	113	-	233
Straddle		-	-	185	-

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11be EHT20	802.11be EHT20	802.11be EHT20	802.11be EHT20
L	Low	001	097	117	189
M	Middle	049	105	149	209
H	High	093	113	-	-
					233
Straddle		-	-	185	-

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11be EHT40	802.11be EHT40	802.11be EHT40	802.11be EHT40
L	Low	003	099	123	195
M	Middle	051	-	147	211
H	High	091	107	-	227
Straddle		-	115	187	-

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11be EHT80	802.11be EHT80	802.11be EHT80	802.11be EHT80
L	Low	007	103	135	199
M	Middle	055		151	-
H	High	087		-	215
Straddle		-	-	183	-

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11be EHT160	802.11be EHT160	802.11be EHT160	802.11be EHT160
L	Low	015	-	143	207
M	Middle	047			
H	High	079			
Straddle		-	111	175	-

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11be EHT320	802.11be EHT320	802.11be EHT320	802.11be EHT320
L	Low	031	-	-	-
M	Middle	-			
H	High	063			
Straddle		095	127	159	191

Remark: Based on ANSI C63.10 clause 5.6.2.2, b) Spurious emissions, measure the mode with the highest output power and the mode with highest output power spectral density for each modulation family.



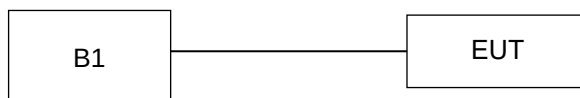
This device supports WiFi 7 puncturing and Multi RU features.

80M channel puncturing 20M M-RU RU484+RU242	1		242	484		
	2	242		484		
	3	484		242		
	4	484	242			
160M channel puncturing 20M M-RU RU996+RU484+RU242	1		242	484	996	
	2	242		484	996	
	3	484		242	996	
	4	484	242		996	
	5	996			242	484
	6	996		242		484
	7	996		484		242
	8	996		484	242	
160M channel puncturing 40M M-RU RU996+RU484	1		484	996		
	2	484		996		
	3	996			484	
	4	996		484		
320M channel puncturing 40M M-RU RU484+RU996+RU996+RU996	1		484	996	996	996
	2	484		996	996	996
	3	996			484	996
	4	996		484		996
	5	996		996		484
	6	996		996	484	996
	7	996		996	996	484
	8	996		996	996	484
320M channel puncturing 80M M-RU RU996+RU996+RU996	1			996	996	996
	2	996			996	996
	3	996		996		996
	4	996		996	996	



320M channel puncturing 40M+80M M-RU RU484+RU996+RU996	1		484	996	996	
	2	484		996	996	
	3	996		484	996	
	4	996	484		996	
	5	996	996		484	
	6	996	996	484		
	7			484	996	996
	8		484		996	996
	9		996		484	996
	10		996	484		996
	11		996	996		484
	12		996	996	484	

2.3 Connection Diagram of Test System



Radiation TX Test Setup									
No.	Power Source	Connection Type	Test Mode						
			1~2	-	-	-	-	-	-
B1	AC : 120V/60Hz	AC Power Cable	X	-	-	-	-	-	-

2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	Latitude5310	N/A	N/A	Unshielded, 1.8 m

Remark: Applicant has ensured support unit would not be attached with the product on the market, support unit is provided by lab for testing.

2.5 EUT Operation Test Setup

The RF test items, utility "QRCT 4.0.193.1" 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.

3 Test Result

3.1 Fundamental Maximum EIRP Measurement

3.1.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

(a)(9) For very low power devices operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p must not exceed 14 dBm.

3.1.2 Measuring Instruments

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

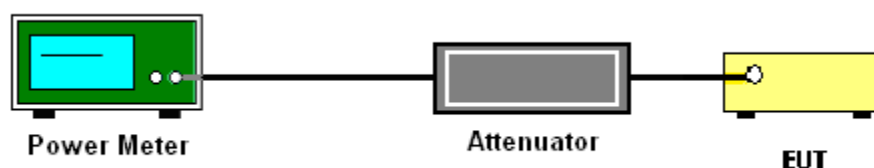
3.1.3 Test Procedures

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.1.4 Test Setup



3.1.5 Test Result of Fundamental Maximum EIRP

Please refer to Appendix A.



3.2 Transmit Power Control (TPC)

3.2.1 Limit of Transmit Power Control (TPC)

<FCC 14-30 CFR 15.407>

(d)(10) Very low power devices operating in the 5.925-6.425 and 6.525-6.875 GHz bands shall employ a transmit power control (TPC) mechanism. A very low power device is required to have the capability to operate at least 6 dB below the maximum EIRP power spectral density (PSD) value of -5 dBm/MHz.

3.2.2 Measuring Instruments

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

3.2.3 Test Procedure:

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

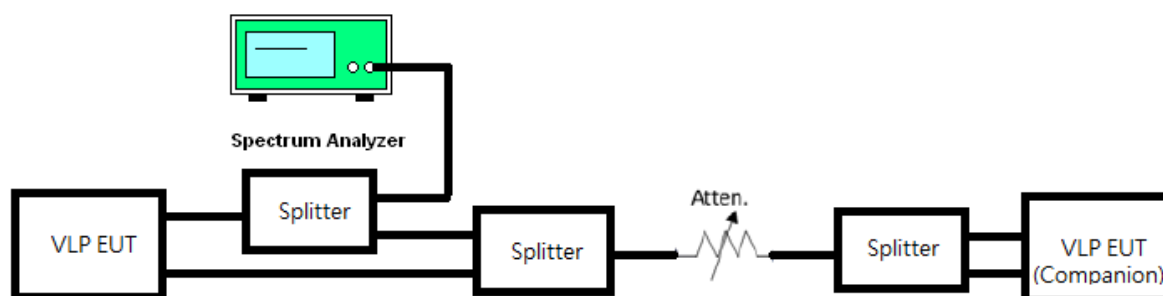
Section F) Maximum power spectral density.

Method SA-2

(power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW $\geq$ 3 MHz.
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time $\leq$ (number of points in sweep) $\times$ 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.
Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
Measure the PPSD and record it.

3.2.4 Test Setup

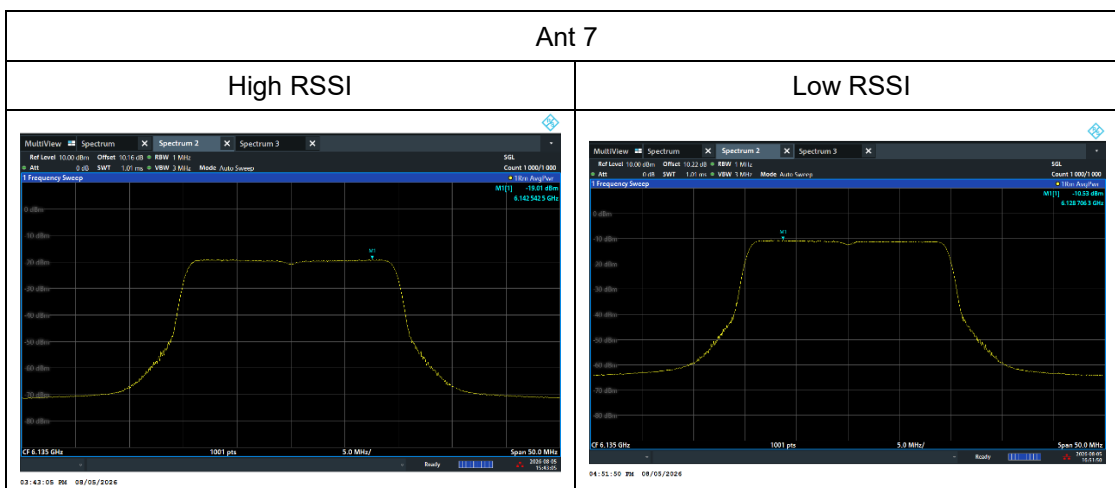
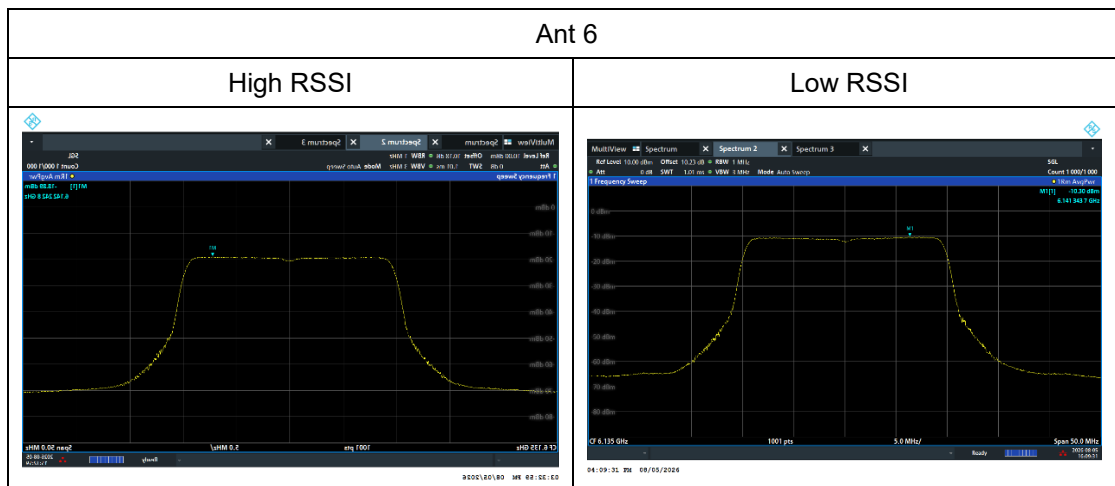


3.2.5 Test Result

The purpose of this test is to verify the relative power drop as the RSSI is increased.

If the conducted PSD delta is greater than 6dB then it ensures the EIRP PSD is at least 6 dB below the maximum EIRP power spectral density (PSD) value of -5 dBm/MHz .

UNII-5 MIMO 2TX	HE20 6135MHz	Conducted PSD Ant 6 (6+7) (dBm/MHz)	Conducted PSD Ant 7 (6+7) (dBm/MHz)	Conducted PSD Ant 6+7 (dBm/MHz)	Antenna Gain Ant 6+7 (dBi)	EIRP PSD Ant 6+7 (dBm/MHz)
Low RSSI		-10.3	-10.53	-7.40		
High RSSI		-18.89	-19.01	-15.94	0.60	-15.34
Verdict [EIRP PSD < -11dBm/MHz]						Pass



3.3 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.3.2 Limit of Unwanted Emissions

- (1) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27 (RMS)	68.3
- 7 (Peak)	88.3

According 987594 D02 U-NII 6GHz EMC Measurement v03 section G:

Unwanted emissions outside of restricted bands are measured with a RMS detector.

In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:

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

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \quad \mu\text{V/m, where P is the eirp (Watts)}$$

3.3.3 Measuring Instruments

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

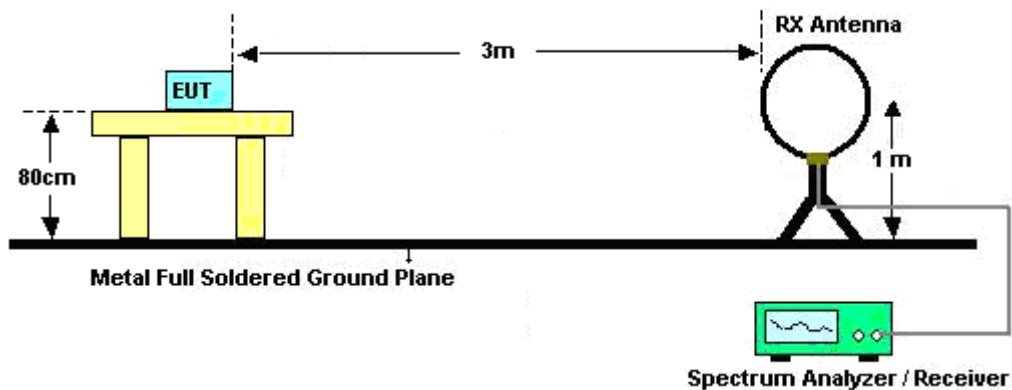


3.3.4 Test Procedures

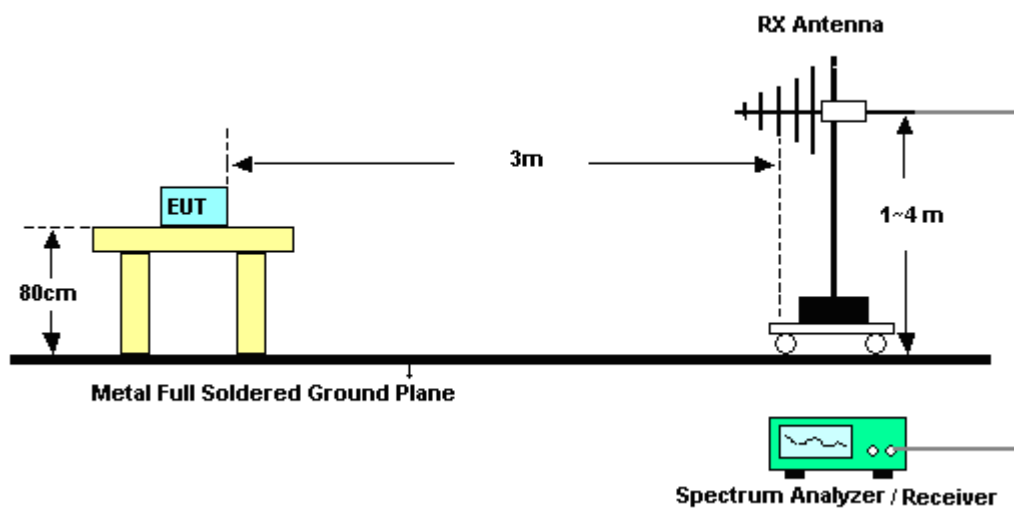
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
(1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 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.
2. 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.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
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 “-”.
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 “-”.

3.3.5 Test Setup

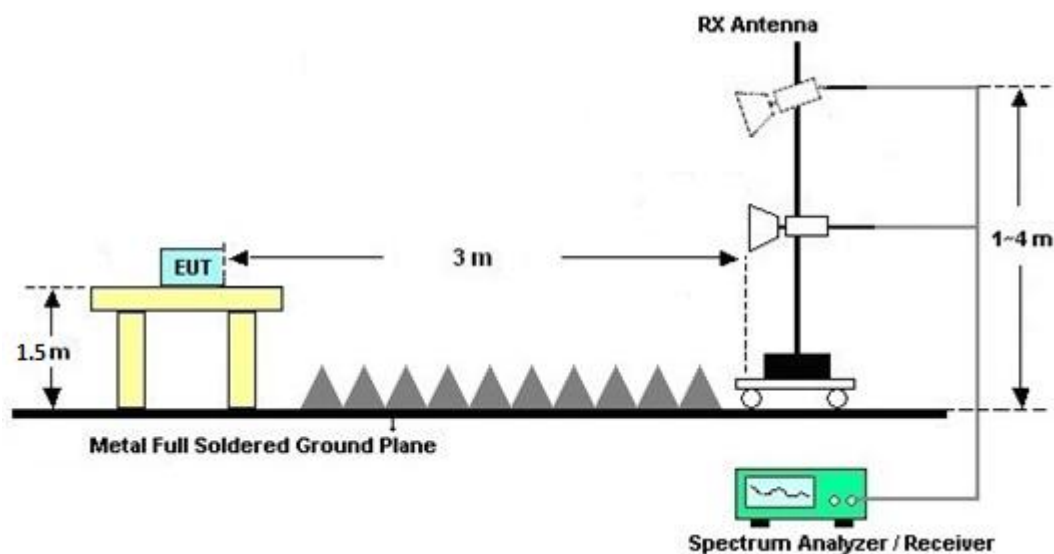
For radiated emissions below 30MHz



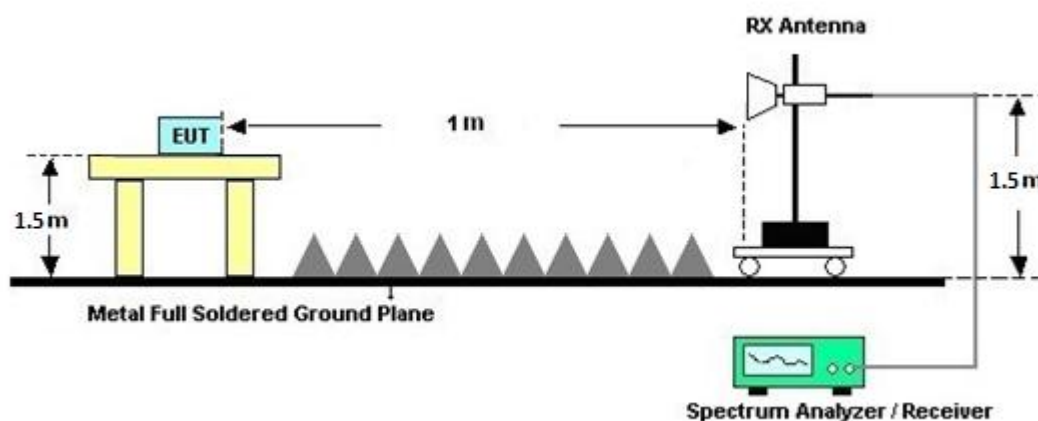
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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 came out very similar.



3.3.7 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.3.8 Duty Cycle

Please refer to Appendix C.

3.3.9 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix B.



3.4 Antenna Requirements

3.4.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.4.2 Antenna Anti-Replacement Construction

Antenna permanently attached.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Oct. 16, 2025	Sep. 06, 2026~ Sep. 20, 2026	Oct. 15, 2026	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Sep. 06, 2026~ Sep. 20, 2026	Dec. 10, 2026	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060872	18GHz~40GHz	Dec. 02, 2025	Sep. 06, 2026~ Sep. 20, 2026	Dec. 01, 2026	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Sep. 06, 2026~ Sep. 20, 2026	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Sep. 06, 2026~ Sep. 20, 2026	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Sep. 06, 2026~ Sep. 20, 2026	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	10Hz~44GHz	Dec. 10, 2025	Sep. 06, 2026~ Sep. 20, 2026	Dec. 09, 2026	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N- 06	47020 & 06	30MHz~1GHz	Oct. 04, 2025	Sep. 06, 2026~ Sep. 20, 2026	Oct. 03, 2026	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	02360	1GHz-18GHz	Nov. 05, 2025	Sep. 06, 2026~ Sep. 20, 2026	Nov. 04, 2026	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1230	18GHz-40GHz	Nov. 05, 2025	Sep. 06, 2026~ Sep. 20, 2026	Nov. 04, 2026	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Dec. 30, 2025	Sep. 06, 2026~ Sep. 20, 2026	Dec. 29, 2026	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 11, 2025	Sep. 06, 2026~ Sep. 20, 2026	Nov. 10, 2026	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	<u>519229/2.80401</u> <u>5/2.25104239</u>	N/A	Apr. 13, 2026	Sep. 06, 2026~ Sep. 20, 2026	Apr. 12, 2027	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2025	Sep. 06, 2026~ Sep. 20, 2026	Oct. 20, 2026	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Sep. 06, 2026~ Sep. 20, 2026	N/A	Radiation (03CH20-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 04, 2025	Jul.25,2026	Nov. 03, 2026	Conducted (TH05-HY)
USB RF Power Sensor	DARE	RPR3008W	RPR8W-2301017 (NO:20)	10MHz~8GHz	Jun. 25, 2026	Jul.25,2026	Jun. 24, 2027	Conducted (TH05-HY)
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV3044	101466	10HZ~44GHZ	Nov. 12, 2025	Jul.25,2026	Nov. 11, 2026	Conducted (TH05-HY)
Switch Control Mainframe	EM Electronics	EMSW18SE	SW191204 (BOX8)	N/A	Dec. 29, 2025	Jul.25,2026	Dec. 28, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Jul.25,2026	N/A	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3013	101550	10Hz~13.6GHz	Dec. 26, 2025	Aug. 05, 2026	Dec. 25, 2026	TPC (DF02-HY)
Power Divider	MTJ	SMA 2Way Power Divider	MD10003	0.5GHz-6GHz	Calibration from System	Aug. 05, 2026	Calibration from System	TPC (DF02-HY)
Power Divider	MTJ	SMA 2Way Power Divider	MD10007	0.5GHz-6GHz	Calibration from System	Aug. 05, 2026	Calibration from System	TPC (DF02-HY)
Power Divider	MTJ	SMA 2Way Power Divider	MD10011	0.5GHz-6GHz	Calibration from System	Aug. 05, 2026	Calibration from System	TPC (DF02-HY)
Power Divider	MTJ	SMA 2Way Power Divider	MD10016	0.5GHz-6GHz	Calibration from System	Aug. 05, 2026	Calibration from System	TPC (DF02-HY)
Software 1	Sporton	DFS & Adaptivity Tools	N/A	Ver 1.0	NCR	Aug. 05, 2026	NCR	TPC (DF02-HY)
RF Cable	MTJ	SBF405	30cm-01	30kHz~18GHz	Calibration from System	Aug. 05, 2026	Calibration from System	TPC (DF02-HY)
RF Cable	MTJ	SBF405	30cm-09	30kHz~18GHz	Calibration from System	Aug. 05, 2026	Calibration from System	TPC (DF02-HY)
RF Cable	E-Instument	SS405	100cm-01	30kHz~18GHz	Calibration from System	Aug. 05, 2026	Calibration from System	TPC (DF02-HY)
RF Cable	E-Instument	SS405	100cm-03	30kHz~18GHz	Calibration from System	Aug. 05, 2026	Calibration from System	TPC (DF02-HY)
RF Cable	E-Instument	SS405	100cm-05	30kHz~18GHz	Calibration from System	Aug. 05, 2026	Calibration from System	TPC (DF02-HY)
RF Cable	E-Instument	SS405	100cm-10	30kHz~18GHz	Calibration from System	Aug. 05, 2026	Calibration from System	TPC (DF02-HY)
RF Cable	E-Instument	SS405	100cm-11	30kHz~18GHz	Calibration from System	Aug. 05, 2026	Calibration from System	TPC (DF02-HY)
RF Cable	E-Instument	SS405	150cm-#11	30kHz~18GHz	Calibration from System	Aug. 05, 2026	Calibration from System	TPC (DF02-HY)
RF Cable	E-Instument	SS405	150cm-#15	30kHz~18GHz	Calibration from System	Aug. 05, 2026	Calibration from System	TPC (DF02-HY)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
--	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7 dB
--	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7 dB
--	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2 dB
--	--------

A1. Conducted Test Results

Test Engineer:	Shiming Liu	Temperature:	21~25	°C
Test Date:	2026/7/25	Relative Humidity:	51~54	%

TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
EHT320	MCS0	2	031	6105	Full	8.40	8.60	11.51	0.60		12.11	14.00	Pass

Power Setting	
Ant 1	Ant 2
8.5	

TEST RESULTS DATA
EIRP Power Table

U-NII-8 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
EHT20	MCS0	2	233	7115	Full	4.90	4.40	7.67	-0.50		7.17	14.00	Pass

Power Setting	
Ant 1	Ant 2
4.5	

Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	John Chuang 、 David Dai 、 Sam Chou	Temperature :	18.6~20.4°C
		Relative Humidity :	65.7~70.2%

Note symbol

-L	Low channel location
-R	High channel location

B1.Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-5	5.925-6.425	0+1	802.11be EHT320	31	6105	MCS0	Full RU	-
Mode 2	U-NII-8	6.875-7.125	0+1	802.11be EHT20	233	7115	MCS0	Full RU	-

B2.Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	802.11be EHT320	31	5897.52	64.50	68.20	-3.70	V	Avg.	Pass	Full RU	Band Edge
1	802.11be EHT320	31	-	-	-	-	-	-	-	Full RU	Harmonic
2	802.11be EHT20	233	7125.01	66.93	68.20	-1.27	V	Avg.	Pass	Full RU	Band Edge
2	802.11be EHT20	233	-	-	-	-	-	-	-	Full RU	Harmonic

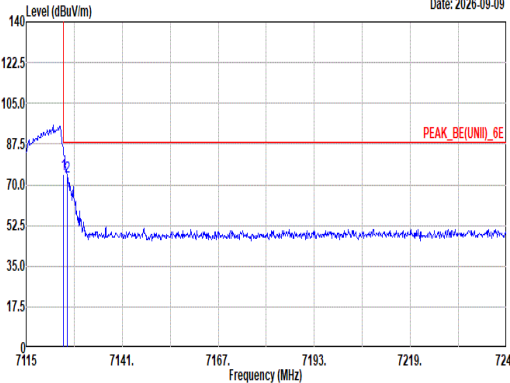
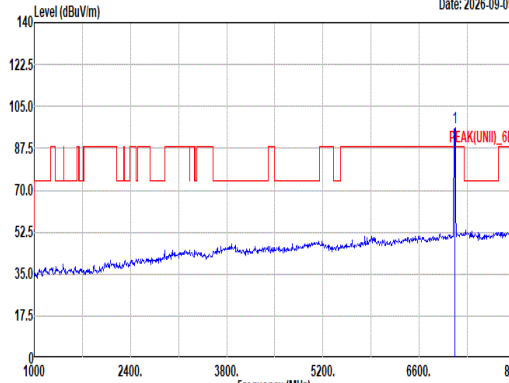
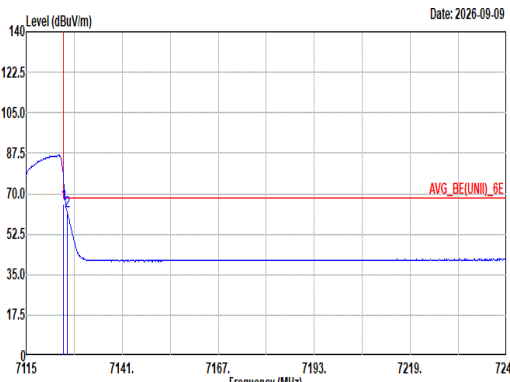
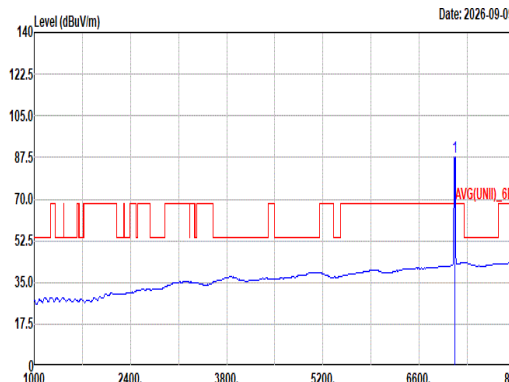


Mode	1																																																																									
	Band Edge																																																																									
	U-NII-5_5.925-6.425_802.11be EHT320_CH31_Full RU_6105MHz																																																																									
ANT	0+1																																																																									
Pol.	Horizontal	Fundamental																																																																								
Peak	Level (dBuV/m) Date: 2026-09-06 Site : 03CH20-HY Condition: PEAK_BE(UNII)_6E 3m HF_91200_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq Level Line Margin Level Factor Loss Factor Factor</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><th>MHz dBuV/m dB dBuV dB/m dB dB dB cm deg</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>1 5857.48 70.59 88.20 -17.61 61.82 34.21 12.34 37.78 0.00 123 350 Peak</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq Level Line Margin Level Factor Loss Factor Factor									MHz dBuV/m dB dBuV dB/m dB dB dB cm deg									1 5857.48 70.59 88.20 -17.61 61.82 34.21 12.34 37.78 0.00 123 350 Peak									Level (dBuV/m) Date: 2026-09-06 Site : 03CH20-HY Condition: PEAK(UNII)_6E 3m HF_91200_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq Level Line Margin Level Factor Loss Factor Factor</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><th>MHz dBuV/m dB dBuV dB/m dB dB dB cm deg</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>1 6105.00 100.29 ----- 91.43 34.19 12.45 37.78 0.00 123 350 Peak</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq Level Line Margin Level Factor Loss Factor Factor									MHz dBuV/m dB dBuV dB/m dB dB dB cm deg									1 6105.00 100.29 ----- 91.43 34.19 12.45 37.78 0.00 123 350 Peak								
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Appendix C. Duty Cycle Plots

Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
7+6	5GHz 802.11be EHT20 Full RU	85.91	3750	0.27	270Hz
7+6	5GHz 802.11be EHT320 Full RU	85.59	570	1.75	1.8kHz

MIMO <Ant. 7+6>

