



TEST REPORT

For WiFi-5GHz Band

Report No. : **CHEW22080160** **Report Verification:** 

Project No. : **SHT2207038201EW**

FCC ID : **GVQ-CPE-0001**

Applicant's name : **Skyroam Technology Co., Ltd.**

Address : No.902,9th Floor, Weisheng Technology Building, No.9966
Shennan Avenue, Shenzhen, Guangdong, China

Product Name : **LTE CPE**

Trade Mark : SIMO, SKYROAM

Model No. : CPE-0001

Listed Model(s) : -

Standard : **FCC CFR Title 47 Part 15 Subpart E Section 15.407**

Date of receipt of test sample : Jul. 12, 2022

Date of testing : Jul. 13, 2022- Aug. 03, 2022

Date of issue : Aug. 04, 2022

Result : **PASS**

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Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- [FCC Rules Part 15.407](#): General technical requirements.
- [ANSI C63.10:2013](#): American National Standard for Testing Unlicensed Wireless Devices
- [KDB789033 D02 v02r01](#): GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPART E

1.2. Report version

Revision No.	Date of issue	Description
N/A	2022-08-04	Original

2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result	Test Engineer
5.1	Antenna Requirement	15.203/15.247(c)	PASS	Xiaoqin Li
5.2	AC Conducted Emission	15.207	PASS	Junman Wang
5.3	Maximum Conducted Output Power	15.407(a)	PASS	Xiaoqin Li
5.4	Maximum Power Spectral Density	15.407(a)	PASS	Xiaoqin Li
5.5	26dB Bandwidth and 99% Occupancy bandwidth	15.407(a)	PASS	Xiaoqin Li
5.6	6dB Bandwidth	15.407(a)	PASS	Xiaoqin Li
5.7	Band edge	15.407(b)	PASS	Xiaoqin Li
5.8	Radiated Spurious Emissions	15.209	PASS	Xiaoqin Li
5.9	Frequency Stability	15.407(g)	PASS	Junman Wang

Note:

- The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	Skyroam Technology Co., Ltd.
Address:	No.902,9th Floor,Weisheng Technology Building,No.9966 Shennan Avenue,Shenzhen,Guangdong,China
Manufacturer:	Skyroam Technology Co., Ltd.
Address:	No.902,9th Floor,Weisheng Technology Building,No.9966 Shennan Avenue,Shenzhen,Guangdong,China

3.2. Product Description

Main unit information:	
Product Name:	LTE CPE
Trade Mark:	SIMO, SKYROAM
Model No.:	CPE-0001
Listed Model(s):	-
Power supply:	DC 12V from AC adapter
Hardware version:	CPE-0001 V1.1
Software version:	V1.1.3
Accessory unit information:	
Adapter information:	Model:DCT18W120150US-A0 Input: AC100-240V, 50/60Hz, 0.7A max Output: 12.0Vdc, 1.5A

3.3. Radio Specification Description

Support type ^{*1}	☒ 802.11a	☒ 802.11n	☒ 802.11ac
Support Bandwidth	20MHz:	802.11n, 802.11a, 802.11ac	
	40MHz:	802.11n, 802.11ac	
	80MHz:	802.11ac	
Operation frequency:	☒ U-NII-1 Band:	5150MHz~5250MHz	
	☒ U-NII-2A Band:	5250MHz~5350MHz	
	☒ U-NII-2C Band:	5470MHz~5725MHz	
	☒ U-NII-3 Band:	5725MHz~5850MHz	
Modulation:	BPSK, QPSK, 16QAM, 64QAM		
Function:	☐ Outdoor AP ☐ Client	☒ Indoor AP	☐ Fixed P2P
DFS type:	☒ Master devices	☐ Slave devices with radar detection	☐ Slave devices without radar detection
Antenna technology:	☐ SISO	☒ MIMO	
Antenna type:	External Antenna		
Antenna gain:	5.0dBi		

Note:

*1: only show the RF function associated with this report.

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China	
Connect information:	Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC	762235

4. TEST CONFIGURATION

4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below .

Band	Test Channel	20MHz		40MHz		80MHz	
		Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII-1	CH _L	36	5180	38	5190	-	-
	CH _M	44	5220	-	-	42	5210
	CH _H	48	5240	46	5230	-	-
U-NII-2A	CH _L	52	5260	54	5270	-	-
	CH _M	56	5280	-	-	58	5290
	CH _H	64	5320	62	5310	-	-
U-NII-2C	CH _L	100	5500	102	5510	106	5530
	CH _M	116	5580	110	5550	122	5610
	CH _H	140	5700	134	5670	138	5690
	CH _{H1}	144	5720	142	5710		
U-NII-3	CH _L	149	5745	151	5755	-	-
	CH _M	157	5785	-	-	155	5775
	CH _H	165	5825	159	5795	-	-

4.2. Descriptions of Test mode

Preliminary tests were performed in different data rates, final test modes are considering the modulation and worse data rates as below table.

Modulation	Data rate
802.11a	6Mbps
802.11n(HT20)/ 802.11ac(HT20)	MCS0
802.11n(HT40)/ 802.11ac(HT40)	MCS0
802.11ac(HT80)	MCS0

4.3. Test mode

For RF test items
The engineering test program was provided and enabled to make EUT continuous transmit.
For AC power line conducted emissions:
The EUT was set to connect with the WLAN AP under large package sizes transmission.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

4.4. Test sample information

Test item	HTW sample no.
RF Conducted test items	Please refer to the description in the appendix report
RF Radiated test items	YPHT22070382008
EMI test items	YPHT22070382008

Note:

RF Conducted test items: Maximum Conducted Output Power, Maximum Power Spectral Density , 26dB Bandwidth and 99% Occupancy bandwidth , 6dB Bandwidth ,Frequency Stability

RF Radiated test items: Band edge, Radiated Spurious Emission

EMI test items: AC Conducted Emission

4.5. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?			
✓ No			
Item	Equipment	Trade Name	Model No.
1			
2			

4.6. Testing environmental condition

Type	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.7. Statement of the measurement uncertainty

Test Item	Measurement Uncertainty
AC Conducted Emission (150kHz~30MHz)	3.00 dB
Radiated Emission (30MHz~1000MHz)	4.36 dB
Radiated Emissions (1GHz~25GHz)	5.10 dB
Peak Output Power	0.77dB
Power Spectral Density	0.77dB
Conducted Spurious Emission	0.77dB
6dB Bandwidth	70Hz for <1GHz 130Hz for >1GHz
Frequency error	70Hz for <1GHz 130Hz for >1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.8. Equipment Used during the Test

● Conducted Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2018/09/28	2023/09/27
●	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2021/09/14	2022/09/13
●	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2021/09/17	2022/09/16
●	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2021/09/16	2022/09/15
●	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM-BNCM-2M	2021/09/17	2022/09/16
●	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

● Radiated emission-6th test site							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2022/09/29
●	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2021/09/14	2022/09/13
●	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/04/06	2024/04/05
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/04/06	2024/04/05
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2021/11/05	2022/11/04
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2022/02/25	2023/02/24
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2022/02/25	2023/02/24
●	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

● Radiated emission-7th test site							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2018/09/27	2022/09/26
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2021/09/13	2022/09/12
●	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
●	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2020/04/27	2023/04/26
●	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2021/11/05	2022/11/04
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2022/02/28	2023/02/27
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2022/02/25	2023/02/24
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
●	RF Connection Cable	HUBER+SUHNER	HTWE0119-05	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
●	Test Software	Audix	N/A	E3	N/A	N/A	N/A

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

TEST RESULT

☒ **Passed** ☐ **Not Applicable**

The product has two external antennas, both two are 5dBi antenna gain, and the product is a CDD device with the same gain, according to KDB 662911 D01 section F, the Directional gain=Gant + Array gain

For power spectral density measurements on all devices,

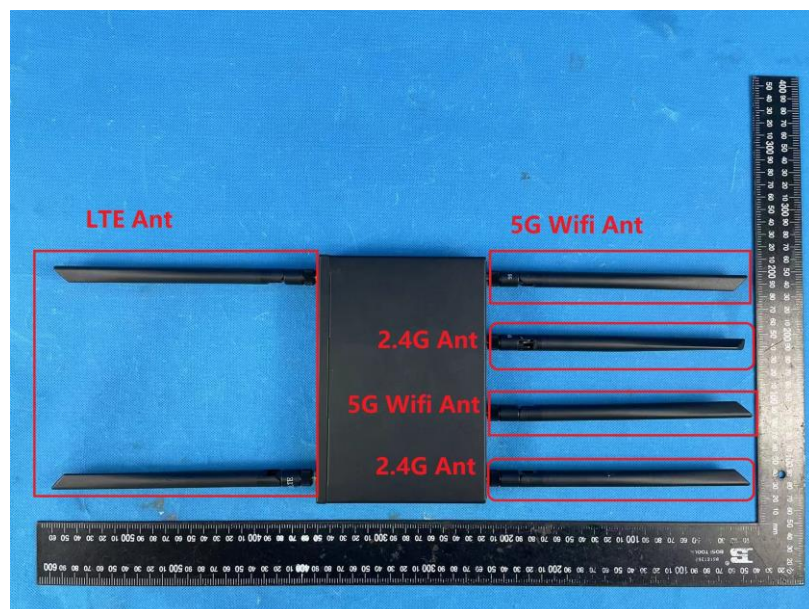
Array gain=10log(Nant/Nss) dB,

So the Directional gain=5+10log(2/2)=5dBi which is less than 6 dBi requirement

For power measurements on IEEE 802.11 devices,

Array gain=0 dB for Nant≤4

So the Directional gain=5+0=5dBi which is less than 6 dBi requirement, please refer to the below antenna photo.



5.2. AC Conducted Emission

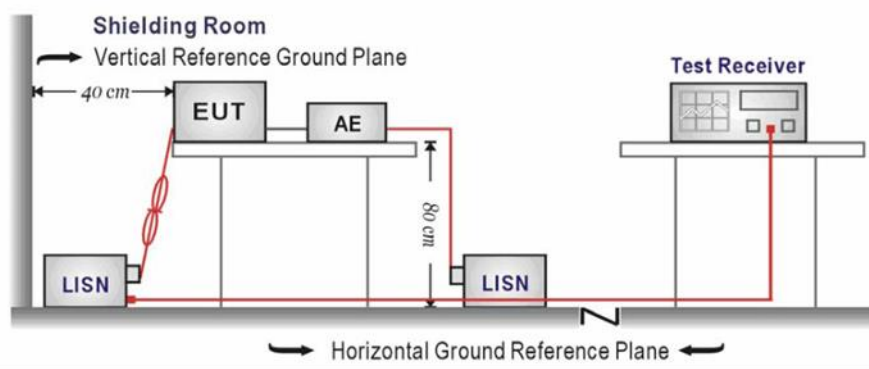
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.10 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

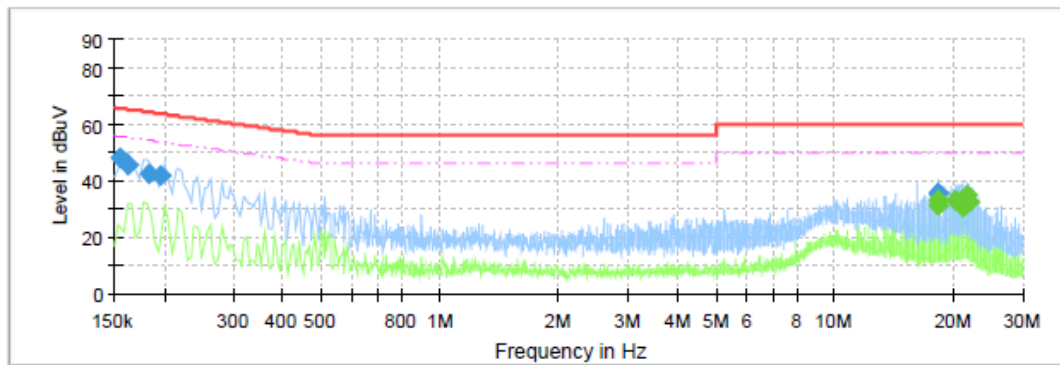
Please refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

Test Line:

L

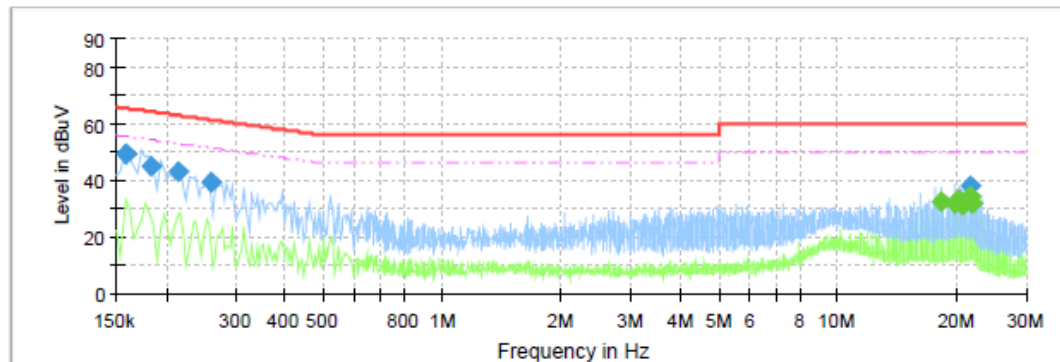


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.155500	48.15	---	65.70	17.55	L1	10.1
0.162000	45.89	---	65.36	19.47	L1	10.1
0.183500	42.48	---	64.33	21.85	L1	10.1
0.195500	42.02	---	63.80	21.78	L1	10.1
18.243500	---	33.09	50.00	16.91	L1	10.7
18.247500	35.32	---	60.00	24.68	L1	10.7
18.303500	---	31.18	50.00	18.82	L1	10.7
18.307500	35.79	---	60.00	24.21	L1	10.7
20.259500	---	33.42	50.00	16.58	L1	10.8
21.051500	---	30.90	50.00	19.10	L1	10.8
21.663500	---	34.92	50.00	15.08	L1	10.8
21.907500	---	32.40	50.00	17.60	L1	10.9

Test Line:

N



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.158000	49.23	---	65.57	16.34	N	10.1
0.159500	49.09	---	65.49	16.40	N	10.1
0.183500	44.80	---	64.33	19.53	N	10.1
0.215500	43.26	---	62.99	19.73	N	10.1
0.259500	39.35	---	61.45	22.09	N	10.1
18.243500	---	32.32	50.00	17.68	N	10.6
19.707500	---	31.77	50.00	18.23	N	10.7
20.259500	---	32.82	50.00	17.18	N	10.7
20.807500	---	31.32	50.00	18.68	N	10.7
21.663500	---	34.14	50.00	15.86	N	10.7
21.663500	38.28	---	60.00	21.72	N	10.7
21.907500	---	31.65	50.00	18.35	N	10.7

5.3. Maximum Conducted Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a):

For the 5.15~5.25GHz band:

- Outdoor AP
The maximum conducted output power (P_{out}) shall not exceed the lesser of 1W (30dBm).
if $G_{TX} > 6\text{dBi}$, then $P_{out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees $\leq 125\text{mW}$ (21dBm)
- Indoor AP
The maximum conducted output power (P_{out}) shall not exceed the lesser of 1W (30dBm).
if $G_{TX} > 6\text{dBi}$, then $P_{out} = 30 - (G_{TX} - 6)$.
- Point-to-point AP
The maximum conducted output power (P_{out}) shall not exceed the lesser of 1W (30dBm).
if $G_{TX} > 23\text{dBi}$, then $P_{out} = 30 - (G_{TX} - 23)$.
- Client devices
The maximum conducted output power (P_{out}) shall not exceed the lesser of 250W (24dBm).
if $G_{TX} > 6\text{dBi}$, then $P_{out} = 24 - (G_{TX} - 6)$.

For the 5.25~5.35GHz band:

The maximum conducted output power (P_{out}) shall not exceed the lesser of 250mW (24dBm) or 11dBm+10 log B, where B is the 26dB emission bandwidth in MHz.
if $G_{TX} > 6\text{dBi}$, then $P_{out} = 24 - (G_{TX} - 6)$.

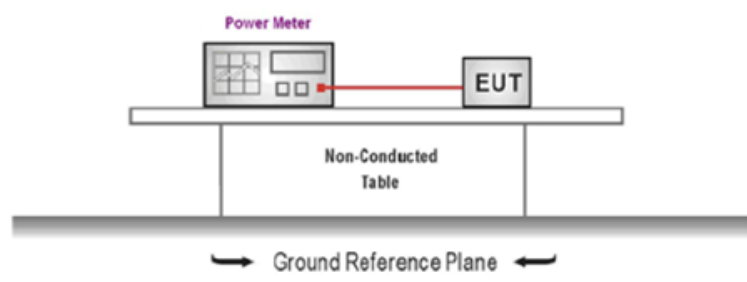
For the 5.47~5.725GHz band:

The maximum conducted output power (P_{out}) shall not exceed the lesser of 250mW (24dBm) or 11dBm+10 log B, where B is the 26dB emission bandwidth in MHz.
if $G_{TX} > 6\text{dBi}$, then $P_{out} = 24 - (G_{TX} - 6)$.

For the 5.725~5.85GHz band:

- Point-to-multipoint systems (P2M)
The maximum conducted output power (P_{out}) shall not exceed the lesser of 1W (30dBm).
if $G_{TX} > 6\text{dBi}$, then $P_{out} = 30 - (G_{TX} - 6)$.
- Point-to-point systems (P2P)
The maximum conducted output power (P_{out}) shall not exceed the lesser of 1W (30dBm).

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was tested according to KDB789033 Section E-3-b)
2. The maximum conducted output power may be measured using a broadband AVG RF power meter.
3. Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor.
4. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
5. Record the measurement data.

6. TEST MODE:

Please refer to the clause 4.3

TEST RESULT☒ **Passed**☐ **Not Applicable****TEST DATA**

Please refer to appendix A on the appendix report

5.4. Power Spectral Density

LIMIT

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a):

For the 5.15~5.25GHz band:

- Outdoor AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
if $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 17 - (G_{TX} - 6)$.
- Indoor AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
if $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 17 - (G_{TX} - 6)$.
- Point-to-point AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
if $G_{TX} > 23\text{dBi}$, then $\text{PSD} = 17 - (G_{TX} - 23)$.
- Client devices
The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
if $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{TX} - 6)$.

For the 5.25~5.35GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
if $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{TX} - 6)$.

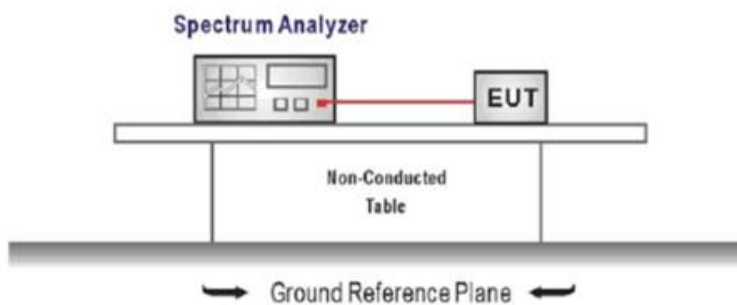
For the 5.47~5.725GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
if $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{TX} - 6)$.

For the 5.725~5.85GHz band:

- Point-to-multipoint systems (P2M)
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.
if $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 30 - (G_{TX} - 6)$.
- Point-to-point systems (P2P)
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.

TEST CONFIGURATION



TEST PROCEDURE

1. According KDB 789033 D02 – Section F
2. Analyzer was setting as follow:
Center frequency: test channel
Span was set to encompass the entire emission bandwidth of the signal
RBW=1MHz for devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz
RBW=500kHz for devices operating in the band 5.725-5.85 GHz
VBW ≥ 3 RBW
Number of sweep points $> 2 \times (\text{span}/\text{RBW})$
Sweep time = auto
Detector = Peak
Trigger was set to free run for all modes, trace was averaged over 100 sweeps
3. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

TEST MODE:

Please refer to the clause 4.3

TEST RESULT

☒ **Passed** ☐ **Not Applicable**

TEST DATA

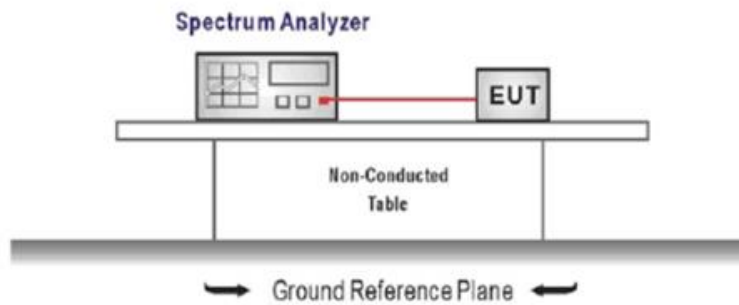
Please refer to appendix B on the appendix report

5.5. 26dB bandwidth and 99% Occupancy bandwidth

LIMIT

The bandwidth at 26dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in KDB 789033 D02 , and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26dB bandwidth.

TEST CONFIGURATION



TEST PROCEDURE

1. According KDB 789033 D02 – Section C, 26dB bandwidth test as follow
 - a) Set RBW = approximately 1% of the emission bandwidth.
 - b) Set the VBW > RBW.
 - c) Detector = Peak.
 - d) Trace mode = max hold.
 - e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
2. According KDB 789033 D02 – Section D, 99% bandwidth test as follow
 - a). Set center frequency to the nominal EUT channel center frequency.
 - b). Set span = 1.5 times to 5.0 times the OBW.
 - c). Set RBW = 1% to 5% of the OBW
 - d). Set $VBW \geq 3 \times RBW$
 - e). Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
 - f). Use the 99% power bandwidth function of the instrument

TEST MODE:

Please refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Please refer to appendix C and D on the appendix report

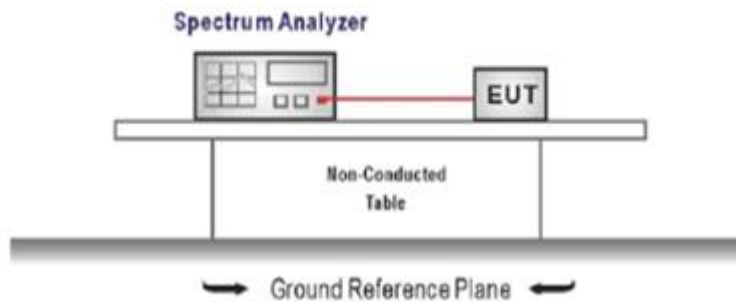
5.6. 6dB Bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart E Section 15.407(e)

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency = test channel center frequency
Span = 2 x emission bandwidth
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Sweep time = auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE:

Please refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Please refer to appendix E on the appendix report

5.7. Band edge

LIMIT

FCC CFR Title 47 Part 15 Subpart E Section 15.407(b)

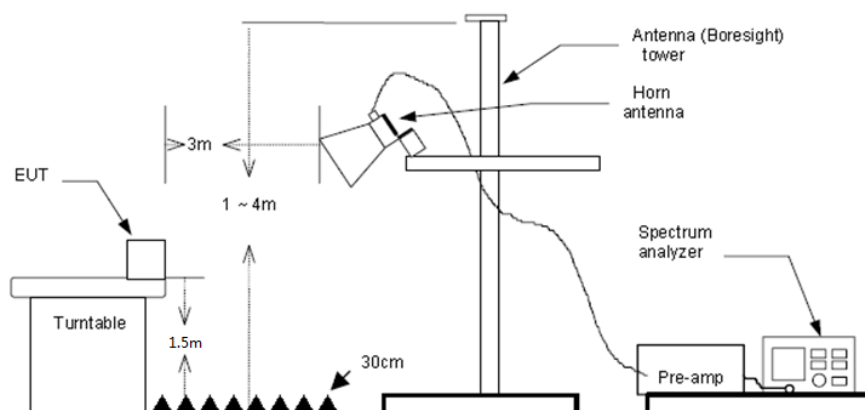
Un-restricted band emissions above 1GHz			
Operating Band	Frequency	EIRP Limit	Value
5150-5250MHz	Above 1GHz	-27dBm/MHz(68.2dBuV/m)@3m	Peak
5250-5350MHz	Above 1GHz	-27dBm/MHz(68.2dBuV/m)@3m	Peak
5470-5725MHz	Above 1GHz	-27dBm/MHz(68.2dBuV/m)@3m	Peak
5725-5850 MHz	1GHz-5.65GHz	-27 dBm/MHz(68.2dBuV/m)@3m	Peak
	5.65GHz-5.7GHz	-27*dBm/MHz to 10dBm/MHz (68.2* dBuV/m to 105.6dBuV/m)	Peak
	5.7GHz-5.72GHz	10*dBm/MHz to 15.6dBm/MHz (105.6*dBuV/m to 110.8dBuV/m)	Peak
	5.72GHz-5.725GHz	15.6*dBm/MHz to 27dBm/MHz (110.8dBuV/m to* 122.2dBuV/m)	Peak
	5.85GHz-5.855GHz	27dBm/MHz to 15.6*dBm/MHz (122.2dBuV/m to110.8* dBuV/m)	Peak
	5.855GHz-5.875GHz	15.6dBm/MHz to 10*dBm/MHz (110.8dBuV/m to 105.6* dBuV/m)	Peak
	5.875GHz-5.925GHz	10dBm/MHz to -27*dBm/MHz (105.6dBuV/m to 68.2* dBuV/m)	Peak
	Above 5.925GHz	-27 dBm/MHz(68.2dBuV/m)@3m	Peak

* Increase/Decreases with the linearity of the frequency.

For emission above 1GHz and in restricted band, according to FCC KDB 789033 D02 General UNII Test Procedure, all emission that complies with both the average and peak limits of Section 15.209 is not required to satisfy the -27 dBm/MHz peak emission limit. $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d = 3$ meters.

TEST CONFIGURATION

Radiated:



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:
RBW=1MHz, VBW=3MHz PEAK detector for Peak value.
RBW=1MHz, VBW=3MHz RMS detector for Average value.

TEST MODE:

Please refer to the clause 4.3

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

U-NII-1 & U-NII-2A			Worst mode: 802.11a				Test channel: CH _L			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5150.07	38.93	32.00	9.31	35.44	54.80	68.20	-13.40	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5058.58	30.73	32.20	9.35	35.41	46.87	54.00	-7.13	Average	
2	5150.07	28.48	32.00	9.31	35.44	44.35	54.00	-9.65	Average	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5150.07	38.93	32.00	9.31	35.44	54.80	68.20	-13.40	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5150.07	28.36	32.00	9.31	35.44	44.23	54.00	-9.77	Average	

U-NII-1 & U-NII-2A			Worst mode: 802.11a			Test channel: CH _H			
Polarization:					Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5349.93	38.19	31.50	9.49	35.37	53.81	68.20	-14.39	Peak
2	5459.99	38.05	31.74	9.61	35.39	54.01	68.20	-14.19	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5349.93	27.36	31.50	9.49	35.37	42.98	54.00	-11.02	Average
2	5459.99	27.30	31.74	9.61	35.39	43.26	54.00	-10.74	Average
Polarization:					Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5349.93	43.53	31.50	9.49	35.37	59.15	68.20	-9.05	Peak
2	5459.99	39.10	31.74	9.61	35.39	55.06	68.20	-13.14	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5349.93	28.22	31.50	9.49	35.37	43.84	54.00	-10.16	Average
2	5459.99	27.81	31.74	9.61	35.39	43.77	54.00	-10.23	Average

U-NII-1 & U-NII-2A			Worst mode: 802.11n(HT40)				Test channel: CH _L			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5150.07	38.76	32.00	9.31	35.44	54.63	68.20	-13.57	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Average	
1	5150.07	27.79	32.00	9.31	35.44	43.66	54.00	-10.34		
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Peak	
1	5150.07	46.57	32.00	9.31	35.44	62.44	68.20	-5.76		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Average	
1	5150.07	30.70	32.00	9.31	35.44	46.57	54.00	-7.43		

U-NII-1 & U-NII-2A			Worst mode: 802.11n(HT40)				Test channel: CH _H			
Polarization:						Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5349.93	39.51	31.50	9.49	35.37	55.13	68.20	-13.07	Peak	
2	5459.99	39.87	31.74	9.61	35.39	55.83	68.20	-12.37	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5349.93	27.36	31.50	9.49	35.37	42.98	54.00	-11.02	Average	
2	5459.99	27.24	31.74	9.61	35.39	43.20	54.00	-10.80	Average	
Polarization:						Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5349.93	47.64	31.50	9.49	35.37	63.26	68.20	-4.94	Peak	
2	5459.99	39.49	31.74	9.61	35.39	55.45	68.20	-12.75	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5349.93	30.08	31.50	9.49	35.37	45.70	54.00	-8.30	Average	
2	5459.99	28.04	31.74	9.61	35.39	44.00	54.00	-10.00	Average	

U-NII-1 & U-NII-2A			Worst mode: 802.11ac(HT80)			Test channel: CH _L			
Polarization:					Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5150.07	38.82	32.00	9.31	35.44	54.69	68.20	-13.51	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5150.07	27.77	32.00	9.31	35.44	43.64	54.00	-10.36	Average
Polarization:					Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5145.63	47.55	32.02	9.32	35.45	63.44	68.20	-4.76	Peak
2	5150.07	45.57	32.00	9.31	35.44	61.44	68.20	-6.76	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5147.04	31.55	32.01	9.32	35.45	47.43	54.00	-6.57	Average
2	5150.07	29.11	32.00	9.31	35.44	44.98	54.00	-9.02	Average

U-NII-1 & U-NII-2A			Worst mode: 802.11ac(HT80)				Test channel: CH _H		
Polarization:				Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5349.93	38.93	31.50	9.49	35.37	54.55	68.20	-13.65	Peak
2	5459.99	39.50	31.74	9.61	35.39	55.46	68.20	-12.74	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5349.93	27.26	31.50	9.49	35.37	42.88	54.00	-11.12	Average
2	5459.99	27.22	31.74	9.61	35.39	43.18	54.00	-10.82	Average
Polarization:				Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5349.93	44.23	31.50	9.49	35.37	59.85	68.20	-8.35	Peak
2	5459.99	38.63	31.74	9.61	35.39	54.59	68.20	-13.61	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5349.93	28.94	31.50	9.49	35.37	44.56	54.00	-9.44	Average
2	5459.99	27.76	31.74	9.61	35.39	43.72	54.00	-10.28	Average

U-NII-2C		Worst mode: 802.11a					Test channel: CH _L			
Polarization:					Horizontal					

Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5460.09	37.51	31.74	9.61	35.39	53.47	68.20	-14.73	Peak	
2	5469.92	38.55	31.78	9.62	35.37	54.58	68.20	-13.62	Peak	

Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5460.09	27.30	31.74	9.61	35.39	43.26	54.00	-10.74	Average	
2	5469.92	27.27	31.78	9.62	35.37	43.30	54.00	-10.70	Average	
Polarization:					Vertical					

Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5460.09	39.59	31.74	9.61	35.39	55.55	68.20	-12.65	Peak	
2	5469.92	44.64	31.78	9.62	35.37	60.67	68.20	-7.53	Peak	

Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5460.09	28.39	31.74	9.61	35.39	44.35	54.00	-9.65	Average	
2	5469.92	29.28	31.78	9.62	35.37	45.31	54.00	-8.69	Average	

U-NII-2C			Worst mode: 802.11a				Test channel: CH _H			
Polarization:						Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5725.00	39.00	31.90	9.90	34.87	55.93	68.20	-12.27	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5725.00	27.35	31.90	9.90	34.87	44.28	54.00	-9.72	Average	
Polarization:						Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5725.00	42.89	31.90	9.90	34.87	59.82	68.20	-8.38	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5725.00	28.20	31.90	9.90	34.87	45.13	54.00	-8.87	Average	

U-NII-2C			Worst mode: 802.11n(HT40)				Test channel: CH _L			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5460.09	39.50	31.74	9.61	35.39	55.46	68.20	-12.74	Peak	
2	5469.92	37.92	31.78	9.62	35.37	53.95	68.20	-14.25	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5460.09	27.45	31.74	9.61	35.39	43.41	54.00	-10.59	Average	
2	5469.92	27.59	31.78	9.62	35.37	43.62	54.00	-10.38	Average	

Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5460.09	45.60	31.74	9.61	35.39	61.56	68.20	-6.64	Peak	
2	5469.92	47.31	31.78	9.62	35.37	63.34	68.20	-4.86	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5460.09	30.07	31.74	9.61	35.39	46.03	54.00	-7.97	Average	
2	5469.92	32.30	31.78	9.62	35.37	48.33	54.00	-5.67	Average	

U-NII-2C			Worst mode: 802.11n(HT40)				Test channel: CH _H			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5725.00	38.26	31.90	9.90	34.87	55.19	68.20	-13.01	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5725.00	27.25	31.90	9.90	34.87	44.18	54.00	-9.82	Average	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5725.00	46.02	31.90	9.90	34.87	62.95	68.20	-5.25	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5725.00	28.14	31.90	9.90	34.87	45.07	54.00	-8.93	Average	

U-NII-2C		Worst mode: 802.11ac(HT80)					Test channel: CH _L			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5460.09	38.67	31.74	9.61	35.39	54.63	68.20	-13.57	Peak	
2	5469.92	38.36	31.78	9.62	35.37	54.39	68.20	-13.81	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5460.09	27.48	31.74	9.61	35.39	43.44	54.00	-10.56	Average	
2	5469.92	27.40	31.78	9.62	35.37	43.43	54.00	-10.57	Average	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5460.09	45.90	31.74	9.61	35.39	61.86	68.20	-6.34	Peak	
2	5469.92	48.10	31.78	9.62	35.37	64.13	68.20	-4.07	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5460.09	30.69	31.74	9.61	35.39	46.65	54.00	-7.35	Average	
2	5469.92	30.60	31.78	9.62	35.37	46.63	54.00	-7.37	Average	

U-NII-2C		Worst mode: 802.11ac(HT80)					Test channel: CH _H				
Polarization:						Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5725.00	39.36	31.90	9.90	34.87	10.00	56.29	68.20	-11.91	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark		
1	5725.00	27.32	31.90	9.90	34.87	44.25	54.00	-9.75	Average		
Polarization:						Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark		
1	5725.00	39.40	31.90	9.90	34.87	56.33	68.20	-11.87	Peak		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5725.00	27.61	31.90	9.90	34.87	10.00	44.54	54.00	-9.46	Average	

U-NII-3			Worst mode: 802.11a					Test channel: CH _L		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Aux Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Test value	Polarization
5650	38.86	31.9	9.8	34.99	10	55.57	68.2	-12.63	Vertical	Peak
5700.007	40.62	31.9	9.86	34.91	10	57.47	105.2	-47.73	Vertical	Peak
5719.825	49.85	31.9	9.89	34.88	10	66.76	110.8	-44.04	Vertical	Peak
5650	39.04	31.9	9.8	34.99	10	55.75	68.2	-12.45	Horizontal	Peak
5700.007	39.01	31.9	9.86	34.91	10	55.86	105.2	-49.34	Horizontal	Peak
5720.045	38.67	31.9	9.89	34.87	10	55.59	110.8	-55.21	Horizontal	Peak

U-NII-3			Worst mode: 802.11a					Test channel: CH _H		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Aux Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Test value	Polarization
5849.961	47.63	32.2	10.05	34.9	10	64.98	110.8	-45.82	Vertical	Peak
5875.003	38.66	32.25	10.08	34.97	10	56.02	105.2	-49.18	Vertical	Peak
5925.008	38.43	32.35	10.12	35.04	10	55.86	68.2	-12.34	Vertical	Peak
5849.961	39.37	32.2	10.05	34.9	10	56.72	110.8	-54.08	Horizontal	Peak
5875.003	38.46	32.25	10.08	34.97	10	55.82	105.2	-49.38	Horizontal	Peak
5925.008	39.61	32.35	10.12	35.04	10	57.04	68.2	-11.16	Horizontal	Peak

U-NII-3			Worst mode: 802.11n(HT40)					Test channel: CH _L		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Aux Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Test value	Polarization
5650	39.83	31.9	9.8	34.99	10	56.54	68.2	-11.66	Vertical	Peak
5700.007	42.21	31.9	9.86	34.91	10	59.06	105.2	-46.14	Vertical	Peak
5720.045	47	31.9	9.89	34.87	10	63.92	110.8	-46.88	Vertical	Peak
5650	38.8	31.9	9.8	34.99	10	55.51	68.2	-12.69	Horizontal	Peak
5700.007	43.02	31.9	9.86	34.91	10	59.87	105.2	-45.33	Horizontal	Peak
5720.045	46.19	31.9	9.89	34.87	10	63.11	110.8	-47.69	Horizontal	Peak

U-NII-3			Worst mode: 802.11n(HT40)					Test channel: CH _H		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Aux Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Test value	Polarization
5849.961	41.82	32.2	10.05	34.9	10	59.17	110.8	-51.63	Vertical	Peak
5875.003	39.59	32.25	10.08	34.97	10	56.95	105.2	-48.25	Vertical	Peak
5925.008	38.98	32.35	10.12	35.04	10	56.41	68.2	-11.79	Vertical	Peak
5849.961	37.77	32.2	10.05	34.9	10	55.12	110.8	-55.68	Horizontal	Peak
5875.003	38.91	32.25	10.08	34.97	10	56.27	105.2	-48.93	Horizontal	Peak
5925.008	39.55	32.35	10.12	35.04	10	56.98	68.2	-11.22	Horizontal	Peak

U-NII-3 Worst mode: 802.11n(HT80) Test channel: CH _L										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Aux Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Test value	Polarization
5650	39.37	31.9	9.8	34.99	10	56.08	68.2	-12.12	Vertical	Peak
5700.007	43.82	31.9	9.86	34.91	10	60.67	105.2	-44.53	Vertical	Peak
5720.045	44.99	31.9	9.89	34.87	10	61.91	110.8	-48.89	Vertical	Peak
5650	39.09	31.9	9.8	34.99	10	55.8	68.2	-12.4	Horizontal	Peak
5700.007	38.92	31.9	9.86	34.91	10	55.77	105.2	-49.43	Horizontal	Peak
5720.045	39.11	31.9	9.89	34.87	10	56.03	110.8	-54.77	Horizontal	Peak
U-NII-3 Worst mode: 802.11n(HT80) Test channel: CH _H										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Aux Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Test value	Polarization
5849.961	39.5	32.2	10.05	34.9	10	56.85	110.8	-53.95	Vertical	Peak
5875.003	38.73	32.25	10.08	34.97	10	56.09	105.2	-49.11	Vertical	Peak
5925.008	38.21	32.35	10.12	35.04	10	55.64	68.2	-12.56	Vertical	Peak
5849.961	38.42	32.2	10.05	34.9	10	55.77	110.8	-55.03	Horizontal	Peak
5875.003	37.71	32.25	10.08	34.97	10	55.07	105.2	-50.13	Horizontal	Peak
5925.008	38.66	32.35	10.12	35.04	10	56.09	68.2	-12.11	Horizontal	Peak

Remark:

1. Final Level = Receiver Read level + Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. Pre-scan all modulation mode and antenna. 802.11a, 802.11n, 802.11ac mode in the report only displays the worst antenna information. The worst antenna is antenna 1.

5.8. Radiated Spurious Emissions

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209 and Part 15 Subpart E Section 15.407

Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

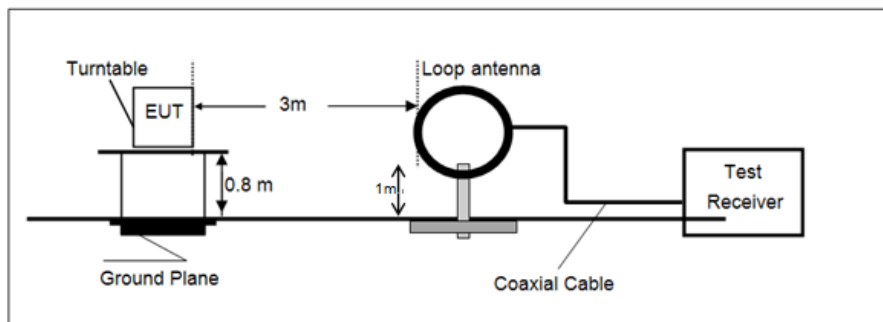
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

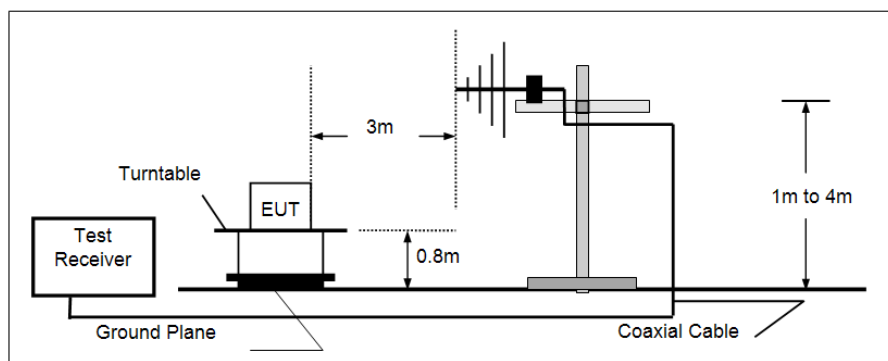
Unwanted emissions below 1GHz and Restricted band emissions above 1GHz		
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

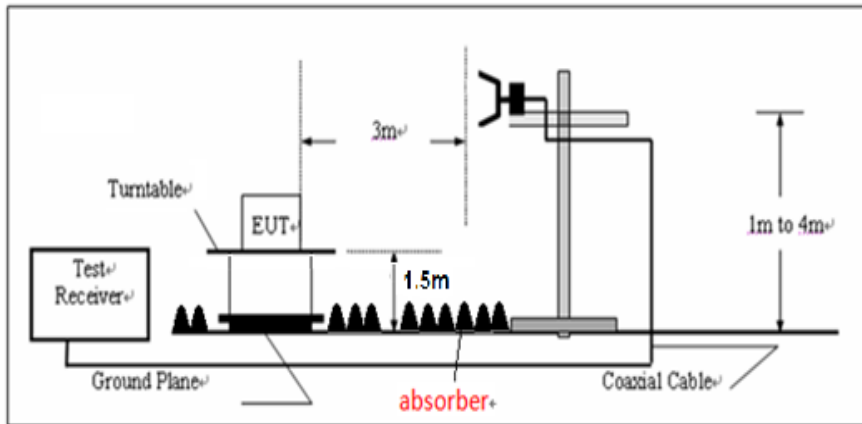
- 9KHz ~30MHz



- 30MHz ~ 1GHz



➤ Above 1GHz

**TEST PROCEDURE**

1. The EUT was setup and tested according to ANSI C63.10:2013
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1 GHz:
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - c) From 1 GHz to 10th harmonic:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW=3MHz RMS detector for Average value.

TEST MODE:

Please refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

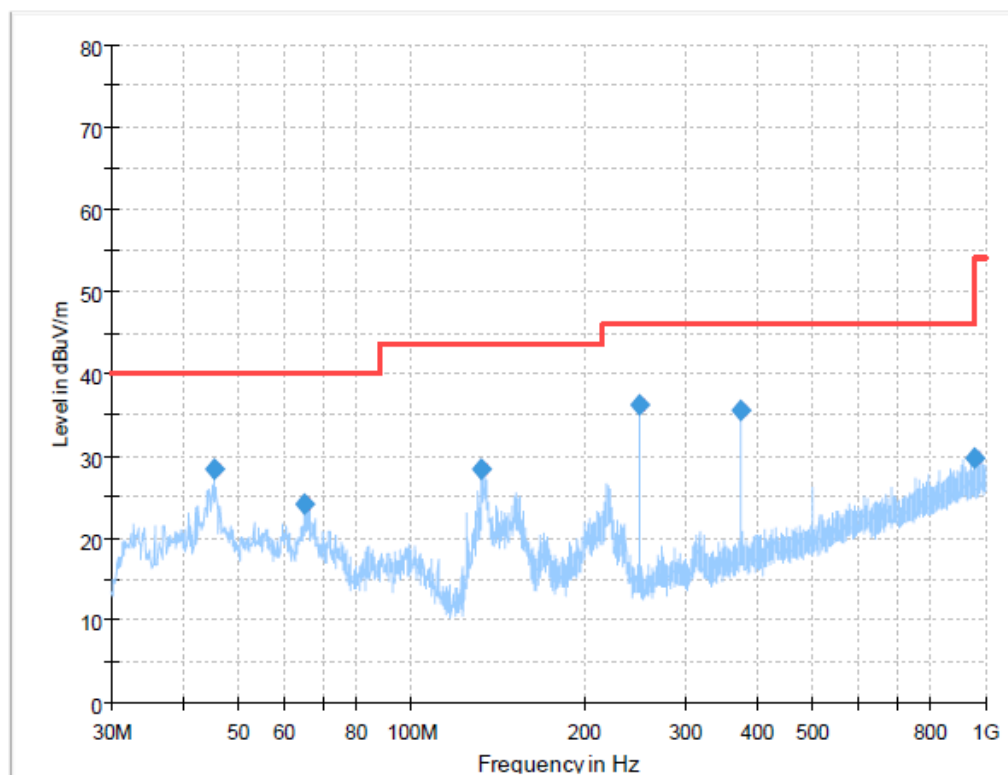
FOR 9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

FOR 30MHz-1GHz

Polarization:

Horizontal



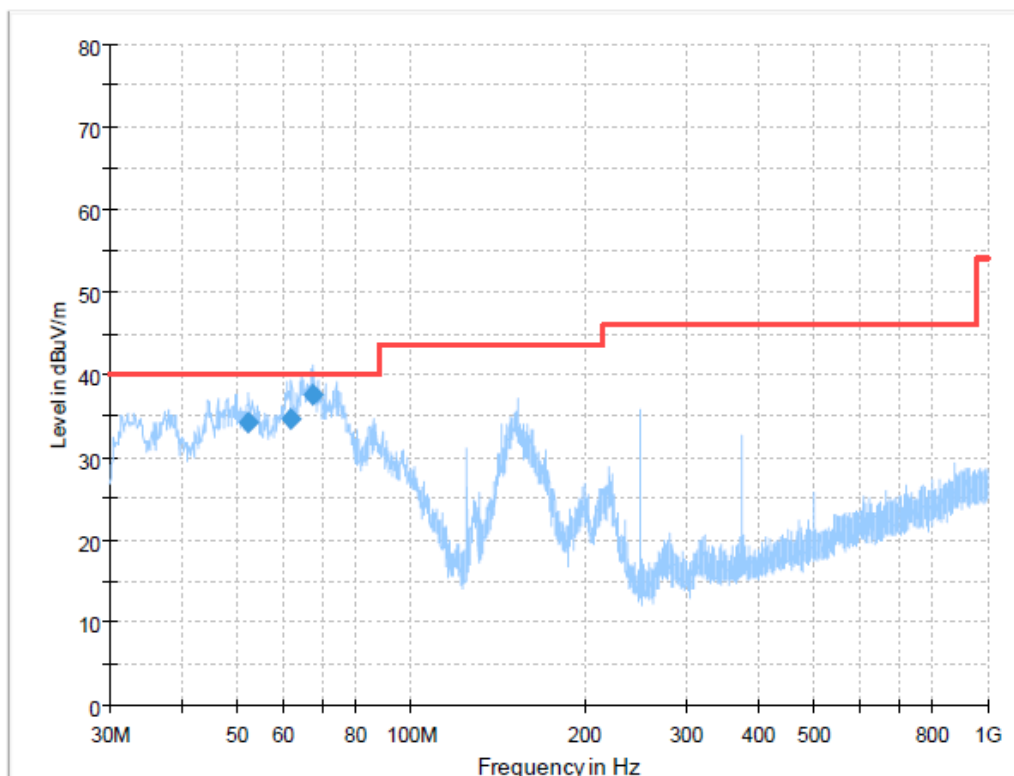
Serif;

Final Result

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.398750	28.29	40.00	11.71	300.0	H	136.0	-9.4
65.283750	24.04	40.00	15.96	100.0	H	85.0	-11.6
132.456250	28.40	43.50	15.10	300.0	H	136.0	-14.0
249.947500	36.09	46.00	9.91	100.0	H	101.0	-9.1
374.956250	35.52	46.00	10.48	100.0	H	126.0	-5.1
956.228750	29.66	46.00	16.34	100.0	H	224.0	7.3

Polarization:

Vertical



Serif,

Final Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
52.288750	34.09	40.00	5.91	131.0	V	0.0	-9.3
61.750000	34.74	40.00	5.26	148.0	V	0.0	-10.5
67.486250	37.57	40.00	2.43	100.0	V	63.0	-12.3

Remark:

Transd=Cable lose+ Antenna factor- Pre-amplifier; Margin=Limit -Level

FOR Above 1GHz

U-NII-1		Worst mode: 802.11a					Test channel: CH _L			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	8022.46	33.97	37.14	12.21	33.31	50.01	68.20	-18.19	Peak	
5	10374.42	40.08	39.85	14.30	37.29	56.94	68.20	-11.26	Peak	
6	10374.42	32.29	39.85	14.30	37.29	49.15	54.00	-4.85	Average	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	8063.40	33.78	37.20	12.19	33.32	49.85	68.20	-18.35	Peak	
5	10374.42	44.93	39.85	14.30	37.29	61.79	68.20	-6.41	Peak	
6	10374.42	31.39	39.85	14.30	37.29	48.25	54.00	-5.75	Average	

U-NII-1		Worst mode: 802.11a					Test channel: CH _M			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	8083.96	33.94	37.20	12.19	33.32	50.01	68.20	-18.19	Peak	
5	10427.37	36.97	39.93	14.33	37.21	54.02	68.20	-14.18	Peak	
6	10427.37	29.23	39.93	14.33	37.21	46.28	54.00	-7.72	Average	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	8063.40	34.28	37.20	12.19	33.32	50.35	68.20	-17.85	Peak	
5	10427.37	43.33	39.93	14.33	37.21	60.38	68.20	-7.82	Peak	
6	10427.37	31.47	39.93	14.33	37.21	48.52	54.00	-5.48	Average	

U-NII-1		Worst mode: 802.11a					Test channel: CH _H			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	8615.13	34.43	37.43	14.16	35.28	50.74	68.20	-17.46	Peak	
5	10480.59	28.05	39.98	14.36	37.12	45.27	54.00	-8.73	Average	
6	10480.59	35.37	39.98	14.36	37.12	52.59	68.20	-15.61	Peak	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	8022.46	33.78	37.14	12.21	33.31	49.82	68.20	-18.38	Peak	
5	10480.59	40.65	39.98	14.36	37.12	57.87	68.20	-10.33	Peak	
6	10481.00	31.74	39.98	14.36	37.12	48.96	68.20	-19.24	Average	

U-NII-1		Worst mode: 802.11n(40)					Test channel: CH _L			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	7338.62	35.34	36.48	11.42	34.08	49.16	68.20	-19.04	Peak	
5	9228.06	34.03	38.91	14.00	36.04	50.90	68.20	-17.30	Peak	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	7470.56	35.50	36.60	11.47	33.95	49.62	68.20	-18.58	Peak	
5	10400.86	31.54	39.90	14.32	37.25	48.51	54.00	-5.49	Average	
6	10400.86	38.83	39.90	14.32	37.25	55.80	68.20	-12.40	Peak	

U-NII-1		Worst mode: 802.11 n(40)					Test channel: CH _M			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	7981.72	33.51	37.03	12.16	33.31	49.39	68.20	-18.81	Peak	
5	10999.95	32.32	40.60	14.57	36.67	50.82	68.20	-17.38	Peak	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	7527.83	33.70	36.54	11.59	33.72	48.11	68.20	-20.09	Peak	
5	10480.59	31.90	39.98	14.36	37.12	49.12	54.00	-4.88	Average	
6	10480.59	36.59	39.98	14.36	37.12	53.81	68.20	-14.39	Peak	

U-NII-1		Worst mode: 802.11n(40)					Test channel: CH _H			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	8063.40	33.66	37.20	12.19	33.32	49.73	68.20	-18.47	Peak	
5	10560.94	33.16	40.06	14.39	37.04	50.57	68.20	-17.63	Peak	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	8042.90	33.21	37.19	12.20	33.31	49.29	68.20	-18.91	Peak	
5	10534.09	37.08	40.03	14.38	37.06	54.43	68.20	-13.77	Peak	
6	10534.09	30.89	40.03	14.38	37.06	48.24	54.00	-5.76	Average	

U-NII-1		Worst mode: 802.11ac(80)					Test channel: CH _M			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	7432.62	34.50	36.60	11.48	33.98	48.60	68.20	-19.60	Peak	
5	9134.58	34.18	38.54	14.12	36.03	50.81	68.20	-17.39	Peak	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	6125.24	35.35	32.65	10.29	34.80	43.49	68.20	-24.71	Peak	
5	8703.29	33.86	37.70	13.95	34.71	50.80	68.20	-17.40	Peak	

U-NII-2		Worst mode: 802.11a					Test channel: CH _L			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	8083.96	33.38	37.20	12.19	33.32	49.45	68.20	-18.75	Peak	
5	10534.09	36.62	40.03	14.38	37.06	53.97	68.20	-14.23	Peak	
6	10534.09	28.27	40.03	14.38	37.06	45.62	54.00	-8.38	Average	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	8022.46	33.55	37.14	12.21	33.31	49.59	68.20	-18.61	Peak	
5	10534.09	39.69	40.03	14.38	37.06	57.04	68.20	-11.16	Peak	
6	10534.09	29.03	40.03	14.38	37.06	46.38	54.00	-7.62	Average	

U-NII-2		Worst mode: 802.11a					Test channel: CH _M			
Polarization:					Horizontal					

Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	8615.13	34.12	37.43	14.16	35.28	50.43	68.20	-17.77	Peak	
5	9660.72	33.70	39.44	13.92	36.77	50.29	68.20	-17.91	Peak	
Polarization:					Vertical					

Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	7961.43	33.81	36.95	12.09	33.32	49.53	68.20	-18.67	Peak	
5	10560.94	39.21	40.06	14.39	37.04	56.62	68.20	-11.58	Peak	
6	10560.94	31.21	40.06	14.39	37.04	48.62	54.00	-5.38	Average	

U-NII-2		Worst mode: 802.11a					Test channel: CH _H			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	7981.72	33.08	37.03	12.16	33.31	48.96	68.20	-19.24	Peak	
5	9710.03	33.23	39.60	13.93	36.53	50.23	68.20	-17.97	Peak	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	8042.90	33.42	37.19	12.20	33.31	49.50	68.20	-18.70	Peak	
5	10669.02	35.69	40.10	14.44	36.95	53.28	68.20	-14.92	Peak	
6	10669.02	30.97	40.10	14.44	36.95	48.56	54.00	-5.44	Average	

U-NII-2		Worst mode: 802.11n(40)				Test channel: CH _L			
Polarization:					Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average
4	7376.08	35.08	36.55	11.46	34.04	49.05	68.20	-19.15	Peak
5	9784.47	32.89	39.60	13.91	36.17	50.23	68.20	-17.97	Peak
Polarization:					Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak
4	7527.83	33.18	36.54	11.59	33.72	47.59	68.20	-20.61	Peak
5	8725.48	32.97	37.70	13.90	34.75	49.82	68.20	-18.38	Peak

U-NII-2		Worst mode: 802.11n(40)					Test channel: CH _H			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	7508.69	33.25	36.58	11.57	33.87	47.53	68.20	-20.67	Peak	
5	9111.35	32.76	38.45	14.14	36.07	49.28	68.20	-18.92	Peak	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	7961.43	32.93	36.95	12.09	33.32	48.65	68.20	-19.55	Peak	
5	9157.86	32.87	38.63	14.09	35.99	49.60	68.20	-18.60	Peak	

U-NII-2		Worst mode: 802.11ac(80)					Test channel: CH _M			
Polarization:						Horizontal				

Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	7117.84	33.73	36.17	11.16	33.93	47.13	68.20	-21.07	Peak	
5	9228.06	33.63	38.91	14.00	36.04	50.50	68.20	-17.70	Peak	
Polarization:						Vertical				

Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	6445.16	33.87	33.67	10.59	34.70	43.43	68.20	-24.77	Peak	
5	8063.40	34.26	37.20	12.19	33.32	50.33	68.20	-17.87	Peak	

U-NII-2C		Worst mode: 802.11a					Test channel: CH _L			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	7981.72	33.32	37.03	12.16	33.31	49.20	68.20	-19.00	Peak	
5	10999.95	35.78	40.60	14.57	36.67	54.28	68.20	-13.92	Peak	
6	10999.95	29.32	40.60	14.57	36.67	47.82	54.00	-6.18	Average	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	8063.40	33.04	37.20	12.19	33.32	49.11	68.20	-19.09	Peak	
5	10999.95	37.70	40.60	14.57	36.67	56.20	68.20	-12.00	Peak	
6	10999.95	30.13	40.60	14.57	36.67	48.63	54.00	-5.37	Average	

U-NII-2C		Worst mode: 802.11a					Test channel: CH _M			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	7981.72	33.32	37.03	12.16	33.31	49.20	68.20	-19.00	Peak	
5	10999.95	35.78	40.60	14.57	36.67	54.28	68.20	-13.92	Peak	
6	10999.95	29.32	40.60	14.57	36.67	47.82	54.00	-6.18	Average	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	8063.40	33.04	37.20	12.19	33.32	49.11	68.20	-19.09	Peak	
5	10999.95	37.70	40.60	14.57	36.67	56.20	68.20	-12.00	Peak	
6	10999.95	30.13	40.60	14.57	36.67	48.63	54.00	-5.37	Average	

U-NII-2C		Worst mode: 802.11a					Test channel: CH _H			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	8063.40	33.87	37.20	12.19	33.32	49.94	68.20	-18.26	Peak	
5	11226.25	35.95	40.33	14.00	36.53	53.75	68.20	-14.45	Peak	
6	11226.25	29.71	40.33	14.00	36.53	47.51	54.00	-6.49	Average	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	8042.90	32.94	37.19	12.20	33.31	49.02	68.20	-19.18	Peak	
5	11226.25	36.87	40.33	14.00	36.53	54.67	68.20	-13.53	Peak	
6	11226.25	29.71	40.33	14.00	36.53	47.51	54.00	-6.49	Average	

U-NII-2C		Worst mode: 802.11n(40)					Test channel: CH _L			
Polarization:					Horizontal					

Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	7451.57	33.69	36.60	11.47	33.97	47.79	68.20	-20.41	Peak	
5	9088.19	33.37	38.33	14.15	36.10	49.75	68.20	-18.45	Peak	
Polarization:					Vertical					

Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	6764.54	34.13	34.36	10.86	34.33	45.02	68.20	-23.18	Peak	
5	8725.48	33.18	37.70	13.90	34.75	50.03	68.20	-18.17	Peak	

U-NII-2C		Worst mode: 802.11n(40)					Test channel: CH _M			
Polarization:						Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	7413.73	33.22	36.60	11.48	34.00	47.30	68.20	-20.90	Peak	
5	9204.60	33.05	38.82	14.04	35.95	49.96	68.20	-18.24	Peak	
Polarization:						Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5151.68	35.21	31.99	9.31	35.44	41.07	68.20	-27.13	Peak	
2	8022.46	33.41	37.14	12.21	33.31	49.45	68.20	-18.75	Peak	
3	9759.59	33.43	39.60	13.92	36.29	50.66	68.20	-17.54	Peak	
4	11663.19	35.80	40.28	14.79	36.39	54.48	68.20	-13.72	Peak	
5	11663.19	29.59	40.28	14.79	36.39	48.27	54.00	-5.73	Average	

U-NII-2C		Worst mode: 802.11n(40)					Test channel: CH _H			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	8022.46	33.40	37.14	12.21	33.31	49.44	68.20	-18.76	Peak	
5	9734.78	32.94	39.60	13.92	36.41	50.05	68.20	-18.15	Peak	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	8022.46	32.88	37.14	12.21	33.31	48.92	68.20	-19.28	Peak	
5	11603.96	37.70	40.58	14.69	36.38	56.59	68.20	-11.61	Peak	
6	11603.96	28.69	40.58	14.69	36.38	47.58	54.00	-6.42	Average	

U-NII-2C		Worst mode: 802.11ac(80)					Test channel: CH _L			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	8104.56	33.48	37.18	12.18	33.33	49.51	68.20	-18.69	Peak	
5	10400.86	34.20	39.90	14.32	37.25	51.17	68.20	-17.03	Peak	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	6747.34	34.13	34.30	10.84	34.37	44.90	68.20	-23.30	Peak	
5	9275.16	33.11	39.10	13.92	36.22	49.91	68.20	-18.29	Peak	

U-NII-2C		Worst mode: 802.11ac(80)					Test channel: CH _H		
Polarization:					Horizontal				

Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average
4	6283.16	34.25	32.97	10.43	34.57	43.08	68.20	-25.12	Peak
5	9181.20	33.34	38.72	14.07	35.96	50.17	68.20	-18.03	Peak
Polarization:					Vertical				

Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average
4	7394.88	33.64	36.59	11.47	34.02	47.68	68.20	-20.52	Peak
5	9134.58	33.65	38.54	14.12	36.03	50.28	68.20	-17.92	Peak

U-NII-3		Worst mode: 802.11a					Test channel: CH _L			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	7394.88	34.26	36.59	11.47	34.02	48.30	68.20	-19.90	Peak	
5	8637.08	34.00	37.47	14.11	35.13	50.45	68.20	-17.75	Peak	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	8002.06	33.48	37.10	12.22	33.31	49.49	68.20	-18.71	Peak	
5	11428.08	35.94	40.68	14.37	36.41	54.58	68.20	-13.62	Peak	
6	11428.08	27.61	40.68	14.37	36.41	46.25	54.00	-7.75	Average	

U-NII-3		Worst mode: 802.11a					Test channel: CH _M			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	8659.10	33.66	37.54	14.06	34.98	50.28	68.20	-17.92	Peak	
5	11515.68	29.71	40.85	14.53	36.37	48.72	54.00	-5.28	Average	
6	11515.68	36.09	40.85	14.53	36.37	55.10	68.20	-13.10	Peak	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	8002.06	33.47	37.10	12.22	33.31	49.48	68.20	-18.72	Peak	
5	11515.68	28.37	40.85	14.53	36.37	47.38	54.00	-6.62	Average	
6	11515.68	38.68	40.85	14.53	36.37	57.69	68.20	-10.51	Peak	

U-NII-3		Worst mode: 802.11a					Test channel: CH _H			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1309.74	38.76	26.06	4.38	36.32	32.88	68.20	-35.32	Peak	
2	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
3	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
4	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
5	3104.22	38.72	29.00	7.03	37.41	37.34	68.20	-30.86	Peak	
6	5099.49	35.28	32.20	9.36	35.48	41.36	68.20	-26.84	Peak	
7	8042.90	32.22	37.19	12.20	33.31	48.30	68.20	-19.90	Peak	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	4797.27	36.03	31.40	8.98	35.32	41.09	68.20	-27.11	Peak	
5	8002.06	34.09	37.10	12.22	33.31	50.10	68.20	-18.10	Peak	

U-NII-3		Worst mode: 802.11n(40)					Test channel: CH _L			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	7413.73	33.22	36.60	11.48	34.00	47.30	68.20	-20.90	Peak	
5	9204.60	33.05	38.82	14.04	35.95	49.96	68.20	-18.24	Peak	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	5151.68	35.21	31.99	9.31	35.44	41.07	68.20	-27.13	Peak	
2	8022.46	33.41	37.14	12.21	33.31	49.45	68.20	-18.75	Peak	
3	9759.59	33.43	39.60	13.92	36.29	50.66	68.20	-17.54	Peak	
4	11663.19	35.80	40.28	14.79	36.39	54.48	68.20	-13.72	Peak	
5	11663.19	29.59	40.28	14.79	36.39	48.27	54.00	-5.73	Average	

U-NII-3		Worst mode: 802.11n(40)					Test channel: CH _H			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	8022.46	33.40	37.14	12.21	33.31	49.44	68.20	-18.76	Peak	
5	9734.78	32.94	39.60	13.92	36.41	50.05	68.20	-18.15	Peak	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	8022.46	32.88	37.14	12.21	33.31	48.92	68.20	-19.28	Peak	
5	11603.96	37.70	40.58	14.69	36.38	56.59	68.20	-11.61	Peak	
6	11603.96	28.69	40.58	14.69	36.38	47.58	54.00	-6.42	Average	

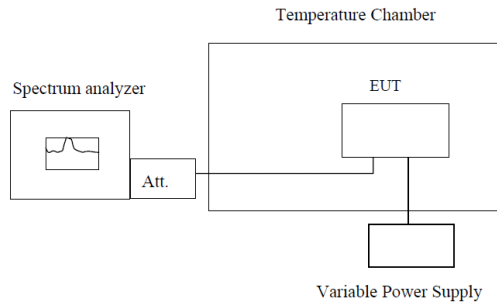
U-NII-3		Worst mode: 802.11ac(80)					Test channel: CH _M			
Polarization:					Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1793.20	57.72	25.37	5.28	37.07	51.30	68.20	-16.90	Peak	
2	2612.31	57.52	27.55	6.40	37.05	54.42	68.20	-13.78	Peak	
3	2612.31	47.19	27.55	6.40	37.05	44.09	54.00	-9.91	Average	
4	7282.79	33.44	36.40	11.36	34.10	47.10	68.20	-21.10	Peak	
5	9181.20	33.32	38.72	14.07	35.96	50.15	68.20	-18.05	Peak	
Polarization:					Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	1316.74	56.90	26.10	4.39	36.34	51.05	68.20	-17.15	Peak	
2	2592.82	52.43	27.49	6.37	37.10	49.19	54.00	-4.81	Average	
3	2592.82	59.84	27.49	6.37	37.10	56.60	68.20	-11.60	Peak	
4	7081.70	34.85	35.95	11.13	33.94	47.99	68.20	-20.21	Peak	
5	9251.58	33.07	39.01	13.96	36.13	49.91	68.20	-18.29	Peak	

5.9. Frequency stability

LIMIT

Within Operation Band

TEST CONFIGURATION



Note : Measurement setup for testing on Antenna connector

TEST PROCEDURE

1. The equipment under test was connected to an external power supply.
2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.
3. The EUT was placed inside the temperature chamber.
4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.
5. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached..

TEST MODE:

Please refer to the clause 4.3

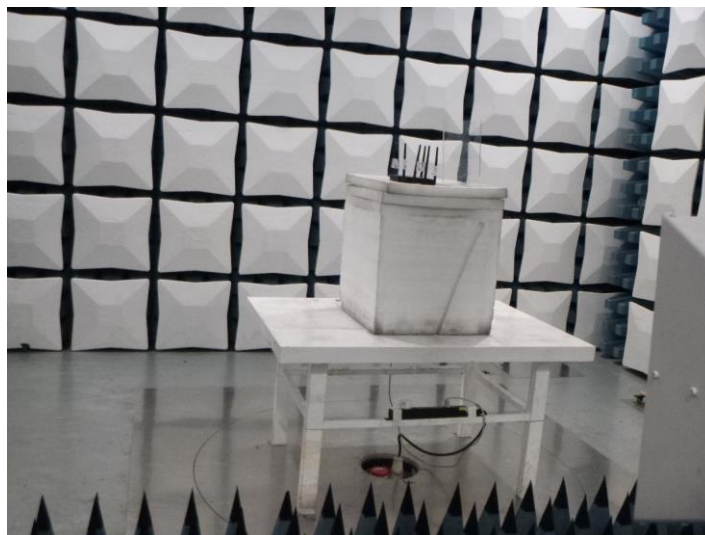
TEST RESULT

☒ Passed ☐ Not Applicable

Please refer to appendix F on the appendix report

6. TEST SETUP PHOTOS

Radiated Emission



7. EXTERNAL AND INTERNAL PHOTOS

Reference to the test report No.: CHTEW22080156

8. APPENDIX REPORT