

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Manufacturer: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Product Name: Clover Flex Pocket

Brand Name: Clover

Model No.: C407

Model Difference: N/A

Report Number: TERF2405001305E2

FCC ID HFS-C407

IC: 1787B-C407

Date of EUT Received: May 7, 2024

Date of Test: May 7, 2024 ~ July 12, 2024

Issue Date: July 15, 2024

Approved By

Jay Lin

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407, ISSED RSS-247.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2405001305E2	00	Original.	July 15, 2024	Karen Huang	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Clover Flex Pocket
Brand Name:	Clover
Model No.:	C407
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	C047UG41450106
Power Supply:	3.8Vdc with rechargeable Li-ion polymer battery
Test Software (Name/Version)	QRCT V4.0

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a, 11n
	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_HT20: up to 72.2 Mbps
	802.11 n_HT40: up to 150 Mbps
	802.11 ac_VHT20: up to 86.7 Mbps
	802.11 ac_VHT40: up to 200 Mbps
	802.11 ac_VHT80: up to 433.3 Mbps

1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	AWAN	DQ60ALF0011	5150~5250	1.96
			5250~5350	1.96
			5470~5725	3.07
			5725~5850	1.23

Note:

1. Antenna information is provided by the applicant.

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1.4 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
802.11a/ 802.11n_HT20/ 802.11ac_VHT20	5180~5240	4	15.21 dBm	OFDM
	5260~5320	4	13.97 dBm	OFDM
	5500~5720	12	13.15 dBm	OFDM
	5745-5825	5	14.42 dBm	OFDM
802.11n_HT40/ 802.11ac_VHT40	5190~5230	2	14.18 dBm	OFDM
	5270~5310	2	13.93 dBm	OFDM
	5510~5710	6	13.13 dBm	OFDM
	5755-5795	2	14.41 dBm	OFDM
802.11ac_VHT80	5210	1	12.09 dBm	OFDM
	5290	1	12.44 dBm	OFDM
	5530~5690	3	12.12 dBm	OFDM
	5775	1	12.41 dBm	OFDM

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1.5 ISED

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)		Modulation Technology
802.11a/ 802.11n_HT20/ 802.11ac_VHT20	5180~5240	4	EIRP	17.17	dBm	OFDM
	5260~5320	4	Avg	13.97	dBm	OFDM
	5500~5700	11	Avg	13.15	dBm	OFDM
	5720 (U-NII 2C)	1	Avg	11.77	dBm	OFDM
	5720 (U-NII 3)	1	Avg	7.79	dBm	OFDM
	5745-5825	5	Avg	14.42	dBm	OFDM
802.11n_HT40/ 802.11ac_VHT40	5190~5230	2	EIRP	16.14	dBm	OFDM
	5270~5310	2	Avg	13.93	dBm	OFDM
	5510~5670	5	Avg	13.13	dBm	OFDM
	5710 (U-NII 2C)	1	Avg	12.53	dBm	OFDM
	5710 (U-NII 3)	1	Avg	4.37	dBm	OFDM
	5755-5795	2	Avg	14.41	dBm	OFDM
802.11ac_VHT80	5210	1	EIRP	14.05	dBm	OFDM
	5290	1	Avg	12.44	dBm	OFDM
	5530~5610	2	Avg	12.12	dBm	OFDM
	5690 (U-NII 2C)	1	Avg	11.75	dBm	OFDM
	5690 (U-NII 3)	1	Avg	1.03	dBm	OFDM
	5775	1	Avg	12.41	dBm	OFDM

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1.6 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

RSS-247 issue 3 Aug. 2023

RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)

ANSI C63.10:2013

1.7 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.8 Special Accessories

There are no special accessories used while test was conducted.

1.9 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

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

2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
USB Cable	PowerSync	CUBCEARA0015	N/A	N/A	N/A
Notebook	HP	HSN-Q35C-4	P0003858	N/A	N/A
Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	HP	HSN-Q35C-4	N/A	N/A	N/A
USB Cable	Qionho	USB-C100	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	ISED Rules	Description Of Test	Result
§15.407(a)	RSS-247 §6.2.1~4 (1) RSS-247 §6.2.5 (2)	Maximum Conducted Output Power	Compliant
§15.205 §15.209 §15.407(b)	RSS-247 §6.2.1~3 (2) §6.2.4 (3) RSS-247 §6.2.5 (3)	Undesirable Radiated Emissions	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-1 5150 MHz ~ 5250MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

UNII-2A 5250 MHz ~ 5350MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

UNII-2C 5470 MHz ~ 5725MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

UNII-3 5725 MHz ~ 5850MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

Modulation		Transmission Chain								Single Transmission Spatial		Multiple Transmission Spatial	
V	802.11 a	V	Ch0		Ch1		Ch2		Ch3	V	1TX		1TX
V	802.11 n	V	Ch0		Ch1		Ch2		Ch3	V	1TX		1TX
V	802.11 ac	V	Ch0		Ch1		Ch2		Ch3	V	1TX		1TX
	802.11 ax		Ch0		Ch1		Ch2		Ch3		1TX		1TX
	802.11 be		Ch0		Ch1		Ch2		Ch3		1TX		1TX

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	ch0
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11ac_VHT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	ch0
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS0	ch0
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	ch0
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	ch0
802.11n_HT20	5745~5825	149 to 165	165	OFDM	MCS0	ch0
802.11n_HT40	5755~5795	151 to 159	159	OFDM	MCS0	ch0
802.11ac_VHT80	5290	58	58	OFDM	MCS0	ch0

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	ch0
802.11n_HT20	5745~5825	149 to 165	165	OFDM	MCS0	ch0
802.11n_HT40	5755~5795	151 to 159	159	OFDM	MCS0	ch0
802.11ac_VHT80	5290	58	58	OFDM	MCS0	ch0

Note:

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Peak Power Density	+/- 0.61 dB
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 dB	140GHz-220GHz

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/15/2023	06/14/2024
Power Meter	Anritsu	ML2496A	1326001	08/22/2023	08/21/2024
Power Sensor	Anritsu	MA2411B	1315048	08/22/2023	08/21/2024
Power Sensor	Anritsu	MA2411B	1315049	08/22/2023	08/21/2024
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Woken	WATT-218FS-10	RF18	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF22	11/15/2023	11/14/2024
DC Block	PASTERNAK	PE8210	RF153	11/15/2023	11/14/2024

NOTE: The relevant conducted measurement is performed within May 14, 2024 to May 16, 2024.

6.2 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/02/2023	11/01/2024
Horn Antenna	Schwarzbeck	BBHA9170	185	08/21/2023	08/20/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/24/2024	01/23/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
3m Site NSA	SGS	966 chamber C	N/A	03/02/2024	03/01/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/10/2024	04/09/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC330	980096	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF17	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	MY17388/4	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W22.03	11/15/2023	11/14/2024

NOTE: N.C.R refers to Not Calibrated Required.

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7 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

7.1 Standard Applicable

7.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

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Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
		Outdoor AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
		Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
	V	Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	V	Other	1 Watt(30dBm)	Not required	Not required	6dBi
		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required
U-NII-4		Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required
		indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required	Not required
		subordinate device	Not required	36dBm	Not required	Not required
1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna. 2. For the 10 log B, B is the 26 dB emission bandwidth.						

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FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4		
			EIRP	Conducted Output Power	TPC
5150~5250		OEM devices installed in vehicles	30 mW or $1.76 + 10 \log_{10} B$	N/A	At least 3dB below 30mW EIRP
	V	Other device	200 mW or $10 + 10 \log_{10} B$ dBm	N/A	N/A
5250~5350		OEM devices installed in vehicles	30 mW or $1.76 + 10 \log_{10} B$	N/A	At least 3dB below 30mW EIRP
	V	Other device	1.0 W or $17 + 10 \log_{10} B$ dBm	250 mW or $11 + 10 \log_{10} B$	EIRP >500mW, at least 6dB below 1W EIRP
		Outdoor Fixed with EIRP>200mW	$-13 \text{ dBW/MHz for } 0^\circ \leq \theta < 8^\circ$ $-13 - 0.716 (\theta - 8) \text{ dBW/MHz for } 8^\circ \leq \theta < 40^\circ$ $-35.9 - 1.22 (\theta - 40) \text{ dBW/MHz for } 40^\circ \leq \theta \leq 45^\circ$ $-42 \text{ dBW/MHz for } \theta > 45^\circ$	N/A	EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	V	All	1.0 W or $17 + 10 \log_{10} B$ dBm	250 mW or $11 + 10 \log_{10} B$	EIRP >500mW, at least 6dB below 1W EIRP
5725~5850	V	All	N/A	1 W	N/A

1 For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

2. For the $10 \log B$, B is the 99% emission bandwidth.

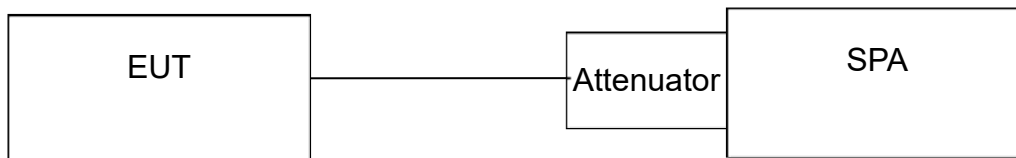
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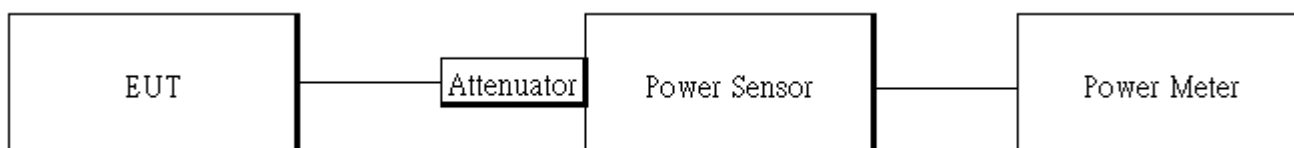
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7.2 Test Setup

7.2.1 Duty Cycle



7.2.2 Output Power



7.3 Measurement Procedure

7.3.1 Duty Cycle Measurements

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

7.3.2 Output Power Measurements

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

Note:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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7.4 Duty Cycle Measurement Result

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	97.25	0.12	0.74	1.00
802.11n_20	97.07	0.13	0.79	1.00
802.11ac_20	97.09	0.13	0.79	1.00
802.11n_40	94.58	0.24	1.59	2.00
802.11ac_40	94.61	0.24	1.58	2.00
802.11ac_80	89.77	0.47	3.16	4.00

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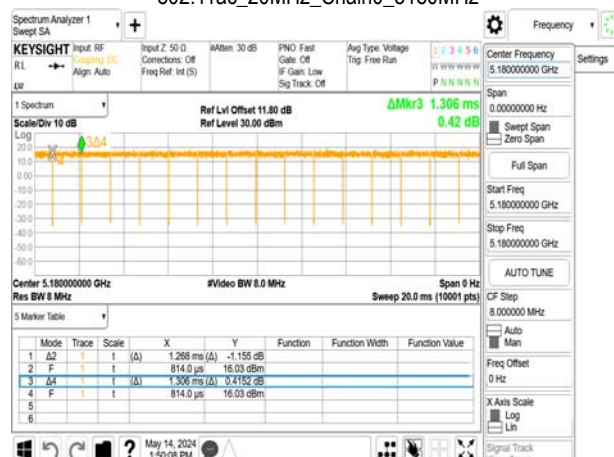
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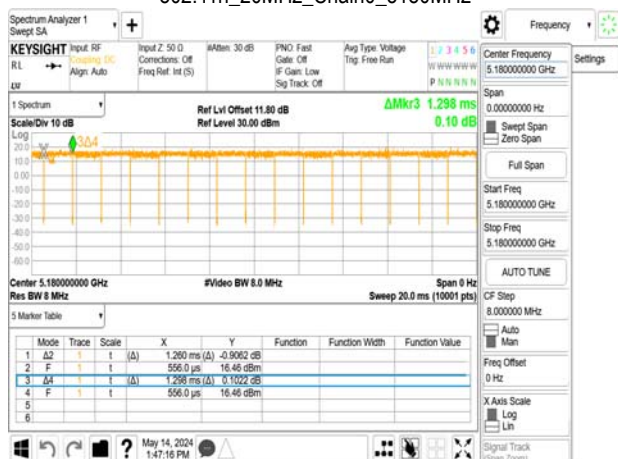
802.11a_20MHz_Chain0_5180MHz



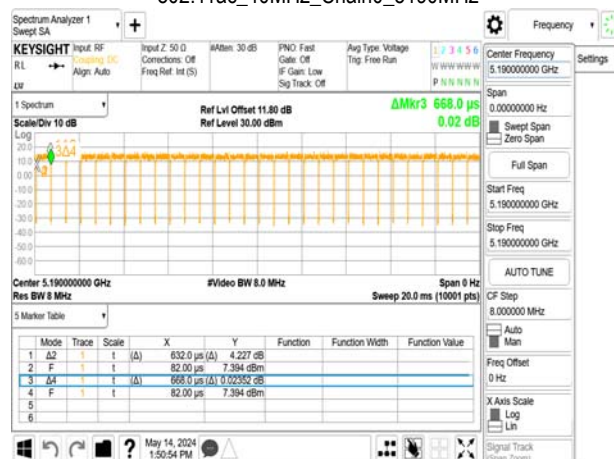
802.11ac_20MHz_Chain0_5180MHz



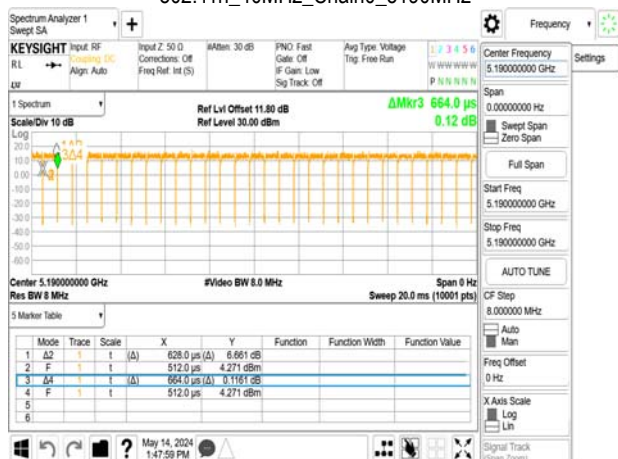
802.11n_20MHz_Chain0_5180MHz



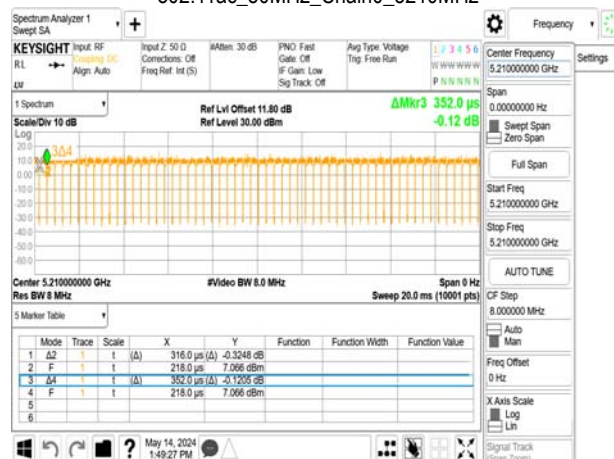
802.11ac_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5190MHz



802.11ac_80MHz_Chain0_5210MHz



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7.5 Output Power Measurement Result

7.5.1 FCC Output power

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	17	32.742	15.15	23.98	PASS
44	5220	6	17	33.198	15.21	23.98	PASS
48	5240	6	17	32.969	15.18	23.98	PASS
52	5260	6	14	24.441	13.88	23.98	PASS
60	5300	6	14	24.610	13.91	23.98	PASS
64	5320	6	14	24.952	13.97	23.98	PASS
100	5500	6	16.5	20.142	13.04	23.98	PASS
116	5580	6	16.5	20.329	13.08	23.98	PASS
140	5700	6	16.5	20.659	13.15	23.98	PASS
144	5720(U-NII 2C)	6	16.5	15.046	11.77	22.9	PASS
144	5720 (U-NII 3)	6	16.5	5.330	7.27	30	PASS
149	5745	6	18	27.676	14.42	30	PASS
157	5785	6	18	27.234	14.35	30	PASS
165	5825	6	18	26.922	14.30	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	16	25.937	14.14	23.98	PASS
44	5220	MCS0	16.5	25.758	14.11	23.98	PASS
48	5240	MCS0	16	25.937	14.14	23.98	PASS
52	5260	MCS0	14	24.599	13.91	23.98	PASS
60	5300	MCS0	14	24.206	13.84	23.98	PASS
64	5320	MCS0	14	24.486	13.89	23.98	PASS
100	5500	MCS0	16.5	20.508	13.12	23.98	PASS
116	5580	MCS0	16.5	20.650	13.15	23.98	PASS
140	5700	MCS0	16.5	20.320	13.08	23.98	PASS
144	5720(U-NII 2C)	MCS0	16.5	14.550	11.63	23.98	PASS
144	5720 (U-NII 3)	MCS0	16.5	5.629	7.50	30	PASS
149	5745	MCS0	18	27.222	14.35	30	PASS
157	5785	MCS0	18	27.284	14.36	30	PASS
165	5825	MCS0	17.5	27.474	14.39	30	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	14.5	26.194	14.18	23.98	PASS
46	5230	MCS0	14.5	25.894	14.13	23.98	PASS
54	5270	MCS0	16.5	24.389	13.87	23.98	PASS
62	5310	MCS0	16.5	24.558	13.90	23.98	PASS
102	5510	MCS0	16.5	20.054	13.02	23.98	PASS
110	5550	MCS0	16.5	20.568	13.13	23.98	PASS
134	5670	MCS0	16	20.333	13.08	23.98	PASS
142	5710(U-NII 2C)	MCS0	16.5	17.886	12.53	23.98	PASS
142	5710 (U-NII 3)	MCS0	16.5	2.588	4.13	30	PASS
151	5755	MCS0	17	27.240	14.35	30	PASS
159	5795	MCS0	18	27.619	14.41	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	14.5	26.051	14.16	23.98	PASS
44	5220	MCS0	14.5	25.991	14.15	23.98	PASS
48	5240	MCS0	14.5	25.753	14.11	23.98	PASS
52	5260	MCS0	16.5	24.650	13.92	23.98	PASS
60	5300	MCS0	16.5	24.089	13.82	23.98	PASS
64	5320	MCS0	16.5	24.424	13.88	23.98	PASS
100	5500	MCS0	16.5	20.176	13.05	23.98	PASS
116	5580	MCS0	16.5	20.456	13.11	23.98	PASS
140	5700	MCS0	16.5	20.315	13.08	23.98	PASS
144	5720(U-NII 2C)	MCS0	16	14.262	11.54	23.98	PASS
144	5720 (U-NII 3)	MCS0	16	6.006	7.79	30	PASS
149	5745	MCS0	18	27.405	14.38	30	PASS
157	5785	MCS0	18	27.029	14.32	30	PASS
165	5825	MCS0	18.5	27.153	14.34	30	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	14.5	25.531	14.07	23.98	PASS
46	5230	MCS0	14.5	25.413	14.05	23.98	PASS
54	5270	MCS0	16.5	24.326	13.86	23.98	PASS
62	5310	MCS0	16.5	24.721	13.93	23.98	PASS
102	5510	MCS0	16.5	20.094	13.03	23.98	PASS
110	5550	MCS0	16.5	20.280	13.07	23.98	PASS
134	5670	MCS0	16.5	20.233	13.06	23.98	PASS
142	5710(U-NII 2C)	MCS0	16.5	17.452	12.42	23.98	PASS
142	5710 (U-NII 3)	MCS0	16.5	2.735	4.37	30	PASS
151	5755	MCS0	17.5	27.294	14.36	30	PASS
159	5795	MCS0	18	26.857	14.29	30	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	12.5	16.176	12.09	23.98	PASS
58	5290	MCS0	15	17.534	12.44	23.98	PASS
106	5530	MCS0	15.5	16.251	12.11	23.98	PASS
122	5610	MCS0	15	16.288	12.12	23.98	PASS
138	5690(U-NII 2C)	MCS0	15.5	14.946	11.75	23.98	PASS
138	5690 (U-NII 3)	MCS0	15.5	1.267	1.03	30	PASS
155	5775	MCS0	16.5	17.413	12.41	30	PASS

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7.5.2 ISED Conducted output power and EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	24.441	13.88	23.98	PASS
60	5300	24.610	13.91	23.98	PASS
64	5320	24.952	13.97	23.98	PASS
100	5500	20.142	13.04	23.98	PASS
116	5580	20.329	13.08	23.98	PASS
140	5700	20.659	13.15	23.98	PASS
144	5720(U-NII 2C)	15.046	11.77	22.23	PASS
144	5720 (U-NII 3)	5.330	7.27	30	PASS
149	5745	27.676	14.42	30	PASS
157	5785	27.234	14.35	30	PASS
165	5825	26.922	14.30	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	24.599	13.91	23.98	PASS
60	5300	24.206	13.84	23.98	PASS
64	5320	24.486	13.89	23.98	PASS
100	5500	20.508	13.12	23.98	PASS
116	5580	20.650	13.15	23.98	PASS
140	5700	20.320	13.08	23.98	PASS
144	5720(U-NII 2C)	14.550	11.63	22.42	PASS
144	5720 (U-NII 3)	5.629	7.50	30	PASS
149	5745	27.222	14.35	30	PASS
157	5785	27.284	14.36	30	PASS
165	5825	27.474	14.39	30	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
54	5270	24.389	13.87	23.98	PASS
62	5310	24.558	13.90	23.98	PASS
102	5510	20.054	13.02	23.98	PASS
110	5550	20.568	13.13	23.98	PASS
134	5670	20.333	13.08	23.98	PASS
142	5710(U-NII 2C)	17.886	12.53	23.98	PASS
142	5710 (U-NII 3)	2.588	4.13	30	PASS
151	5755	27.240	14.35	30	PASS
159	5795	27.619	14.41	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	24.650	13.92	23.98	PASS
60	5300	24.089	13.82	23.98	PASS
64	5320	24.424	13.88	23.98	PASS
100	5500	20.176	13.05	23.98	PASS
116	5580	20.456	13.11	23.98	PASS
140	5700	20.315	13.08	23.98	PASS
144	5720(U-NII 2C)	14.262	11.54	22.41	PASS
144	5720 (U-NII 3)	6.006	7.79	30	PASS
149	5745	27.405	14.38	30	PASS
157	5785	27.029	14.32	30	PASS
165	5825	27.153	14.34	30	PASS

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802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
54	5270	24.326	13.86	23.98	PASS
62	5310	24.721	13.93	23.98	PASS
102	5510	20.094	13.03	23.98	PASS
110	5550	20.280	13.07	23.98	PASS
134	5670	20.233	13.06	23.98	PASS
142	5710(U-NII 2C)	17.452	12.42	23.98	PASS
142	5710 (U-NII 3)	2.735	4.37	30	PASS
151	5755	27.294	14.36	30	PASS
159	5795	26.857	14.29	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
58	5290	17.534	12.44	23.98	PASS
106	5530	16.251	12.11	23.98	PASS
122	5610	16.288	12.12	23.98	PASS
138	5690(U-NII 2C)	14.946	11.75	23.98	PASS
138	5690 (U-NII 3)	1.267	1.03	30	PASS
155	5775	17.413	12.41	30	PASS

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802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.15	1.96	51.404	17.11	23.01	PASS
44	5220	15.21	1.96	52.119	17.17	23.01	PASS
48	5240	15.18	1.96	51.761	17.14	23.01	PASS
52	5260	13.88	1.96	38.371	15.84	30	PASS
60	5300	13.91	1.96	38.637	15.87	30	PASS
64	5320	13.97	1.96	39.174	15.93	30	PASS
100	5500	13.04	3.07	40.832	16.11	30	PASS
116	5580	13.08	3.07	41.210	16.15	30	PASS
140	5700	13.15	3.07	41.879	16.22	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.14	1.96	40.738	16.10	23.01	PASS
44	5220	14.11	1.96	40.458	16.07	23.01	PASS
48	5240	14.14	1.96	40.738	16.10	23.01	PASS
52	5260	13.91	1.96	38.637	15.87	30	PASS
60	5300	13.84	1.96	38.019	15.80	30	PASS
64	5320	13.89	1.96	38.459	15.85	30	PASS
100	5500	13.12	3.07	41.591	16.19	30	PASS
116	5580	13.15	3.07	41.879	16.22	30	PASS
140	5700	13.08	3.07	41.210	16.15	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	14.18	1.96	41.115	16.14	23.01	PASS
46	5230	14.13	1.96	40.644	16.09	23.01	PASS
54	5270	13.87	1.96	38.282	15.83	30	PASS
62	5310	13.90	1.96	38.548	15.86	30	PASS
102	5510	13.02	3.07	40.644	16.09	30	PASS
110	5550	13.13	3.07	41.687	16.20	30	PASS
134	5670	13.08	3.07	41.210	16.15	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.16	1.96	40.926	16.12	23.01	PASS
44	5220	14.15	1.96	40.832	16.11	23.01	PASS
48	5240	14.11	1.96	40.458	16.07	23.01	PASS
52	5260	13.92	1.96	38.726	15.88	30	PASS
60	5300	13.82	1.96	37.844	15.78	30	PASS
64	5320	13.88	1.96	38.371	15.84	30	PASS
100	5500	13.05	3.07	40.926	16.12	30	PASS
116	5580	13.11	3.07	41.495	16.18	30	PASS
140	5700	13.08	3.07	41.210	16.15	30	PASS

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802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	14.07	1.96	40.087	16.03	23.01	PASS
46	5230	14.05	1.96	39.902	16.01	23.01	PASS
54	5270	13.86	1.96	38.194	15.82	30	PASS
62	5310	13.93	1.96	38.815	15.89	30	PASS
102	5510	13.03	3.07	40.738	16.10	30	PASS
110	5550	13.07	3.07	41.115	16.14	30	PASS
134	5670	13.06	3.07	41.020	16.13	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
42	5210	12.09	1.96	25.410	14.05	23.01	PASS
58	5290	12.44	1.96	27.542	14.40	30	PASS
106	5530	12.44	3.07	35.563	15.51	30	PASS
122	5610	12.11	3.07	32.961	15.18	30	PASS

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8 UNDESIRABLE RADIATED EMISSION MEASUREMENT

8.1 Standard Applicable

$EIRP = (E^2 \cdot d^2) / 30$, where E is the field strength in V/m, d is the measurement distance (3m), $EIRP$ is the equivalent isotropically radiated power in Watts.

8.1.1 5150~5850 MHz

Applicable to	Operation Freq. (MHz)	EIRP		Field Strength @ 3m (dBμV/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1) RSS-247 §6.2.1.2	5150~5250	$f \leq 5150$ $f \geq 5350$	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §6.2.2.2	5250~5350			
15.407(b)(3) RSS-247 §6.2.3.2	5475~5725			
15.407(b)(4)(i) RSS-247 §6.2.4.3	5725~5850	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
		increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
		increasing linearly from 25~5MHz above or below the band edge	PK:10~15.6	PK: 105.2~110.8
		increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK:110.8~122.2

8.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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

Note:

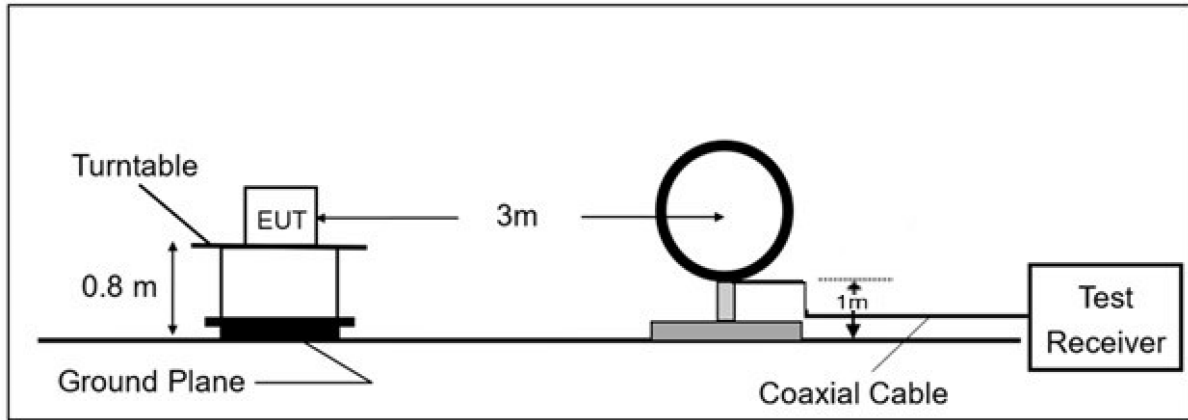
1. The lower limit shall apply at the transition frequencies.

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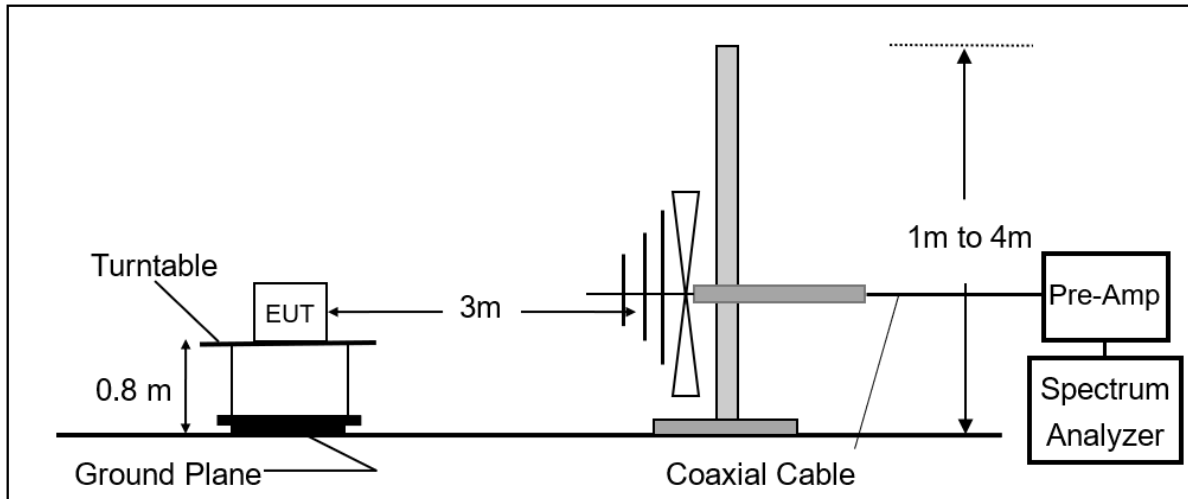
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8.2 Test Setup

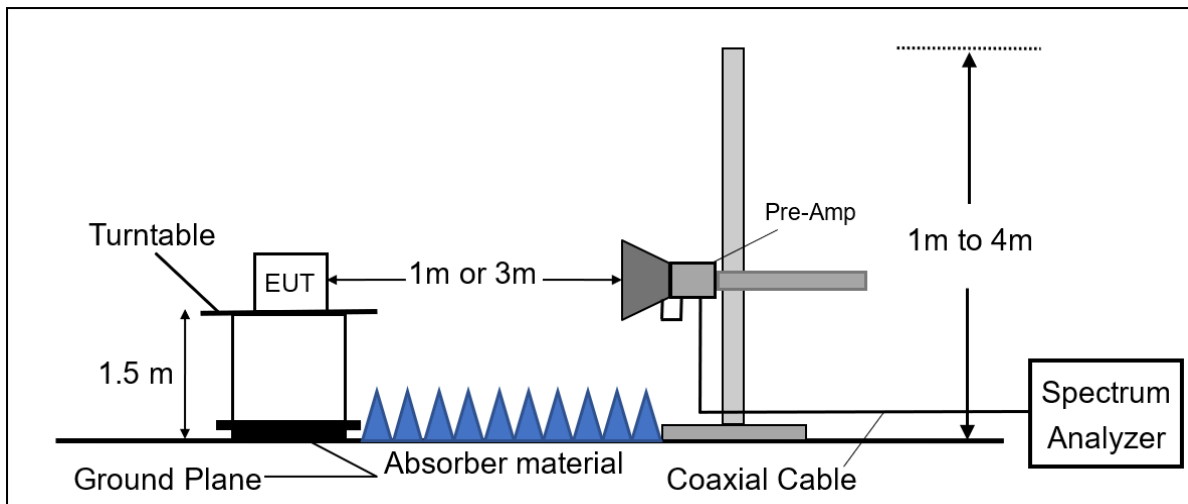
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz



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8.3 Measurement Procedure

1. The testing follows FCC KDB 789033 D02.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW $\geq 1/T$ (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all frequency measured were complete.

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8.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

8.5 Test Results of Radiated Spurious Emissions from 9 kHz to 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 per 15.31(o) & RSS-GEN §6.13.2 was not reported.

Radiated Spurious Emission Measurement Result

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8.5.1 Spurious Emission

Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2024-07-12

Test Frequency :5220 MHz

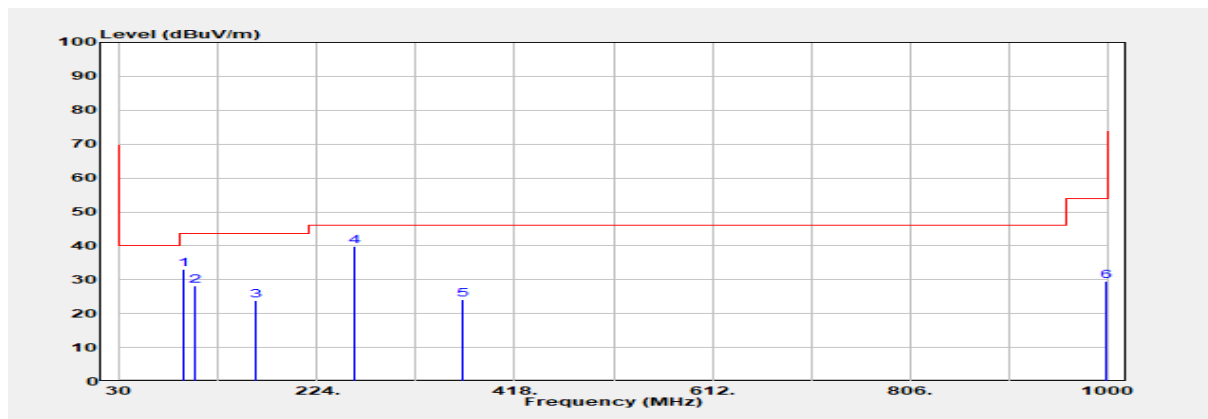
Temp./Humi. :23.8°C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
92.080	Peak	54.65	-21.59	33.07	43.50	-10.43
103.720	Peak	48.25	-20.10	28.15	43.50	-15.35
162.890	Peak	39.86	-15.96	23.90	43.50	-19.60
260.860	Peak	56.29	-16.44	39.85	46.00	-6.15
366.590	Peak	37.06	-13.01	24.04	46.00	-21.96
998.060	Peak	30.30	-0.73	29.58	54.00	-24.42

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2024-07-12

Test Frequency :5220 MHz

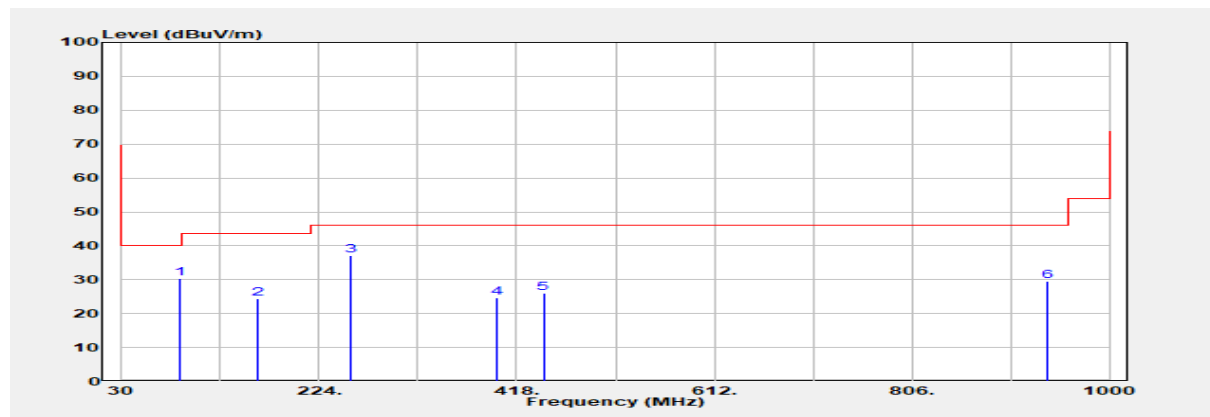
Temp./Humi. :23.8°C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
86.260	Peak	52.15	-21.79	30.36	40.00	-9.64
162.890	Peak	40.26	-15.96	24.30	43.50	-19.20
254.070	Peak	53.98	-16.73	37.25	46.00	-8.75
397.630	Peak	36.78	-12.06	24.72	46.00	-21.28
444.190	Peak	36.65	-10.71	25.94	46.00	-20.06
938.890	Peak	30.77	-1.32	29.45	46.00	-16.55

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2024-07-12

Test Frequency :5825 MHz

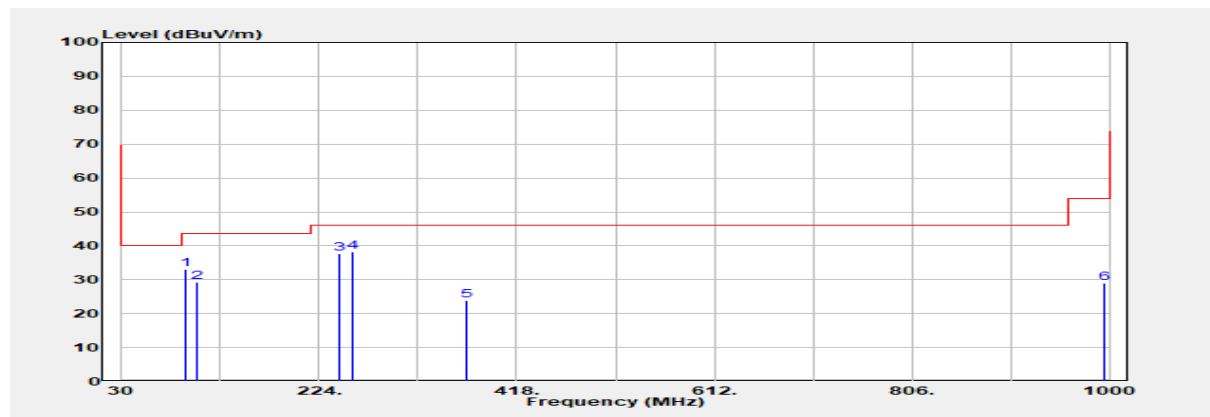
Temp./Humi. :23.8°C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
92.080	Peak	54.66	-21.59	33.08	43.50	-10.42
103.720	Peak	49.25	-20.10	29.15	43.50	-14.35
244.370	Peak	54.54	-16.87	37.67	46.00	-8.33
256.980	Peak	54.89	-16.63	38.25	46.00	-7.75
369.500	Peak	36.67	-12.85	23.83	46.00	-22.17
995.150	Peak	29.71	-0.75	28.95	54.00	-25.05

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2024-07-12

Test Frequency :5825 MHz

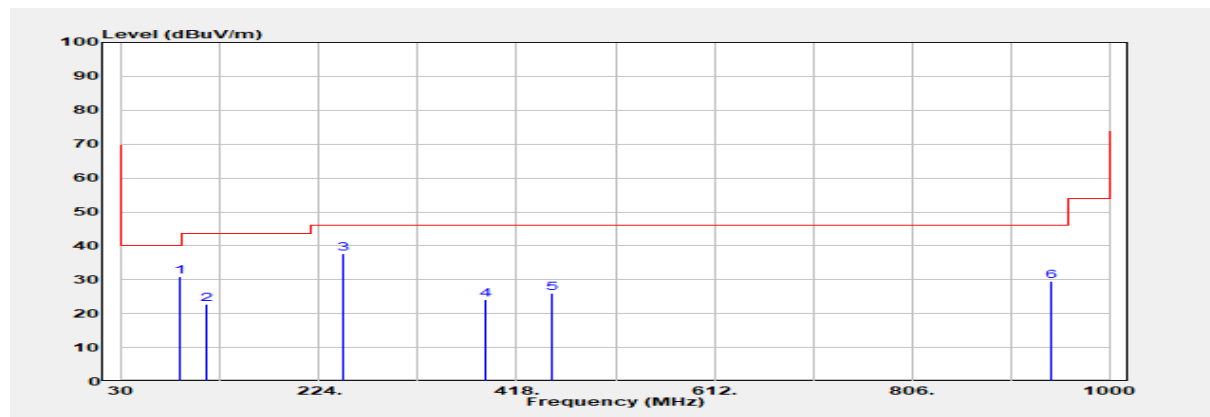
Temp./Humi. :23.8°C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
86.260	Peak	52.63	-21.79	30.85	40.00	-9.15
113.420	Peak	41.66	-18.81	22.85	43.50	-20.65
248.250	Peak	54.35	-16.79	37.57	46.00	-8.43
386.960	Peak	36.87	-12.66	24.22	46.00	-21.78
452.920	Peak	36.22	-10.32	25.90	46.00	-20.10
943.740	Peak	30.89	-1.29	29.61	46.00	-16.39

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11n40

Test Date :2024-07-12

Test Frequency :5795 MHz

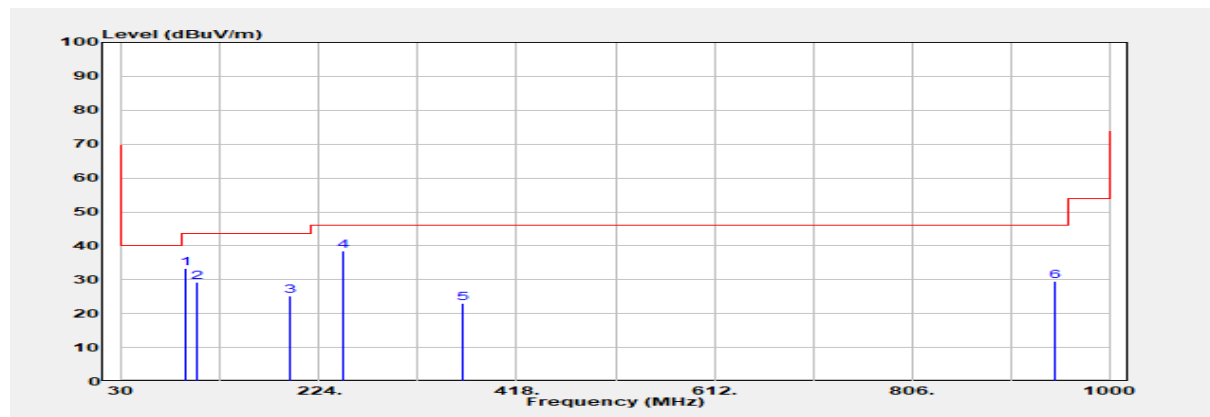
Temp./Humi. :23.8°C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
92.080	Peak	54.93	-21.59	33.35	43.50	-10.16
103.720	Peak	49.49	-20.10	29.39	43.50	-14.11
195.870	Peak	44.11	-18.82	25.29	43.50	-18.21
247.280	Peak	55.34	-16.80	38.54	46.00	-7.46
365.620	Peak	36.22	-13.07	23.15	46.00	-22.85
946.650	Peak	30.83	-1.23	29.61	46.00	-16.40

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11n40

Test Date :2024-07-12

Test Frequency :5795 MHz

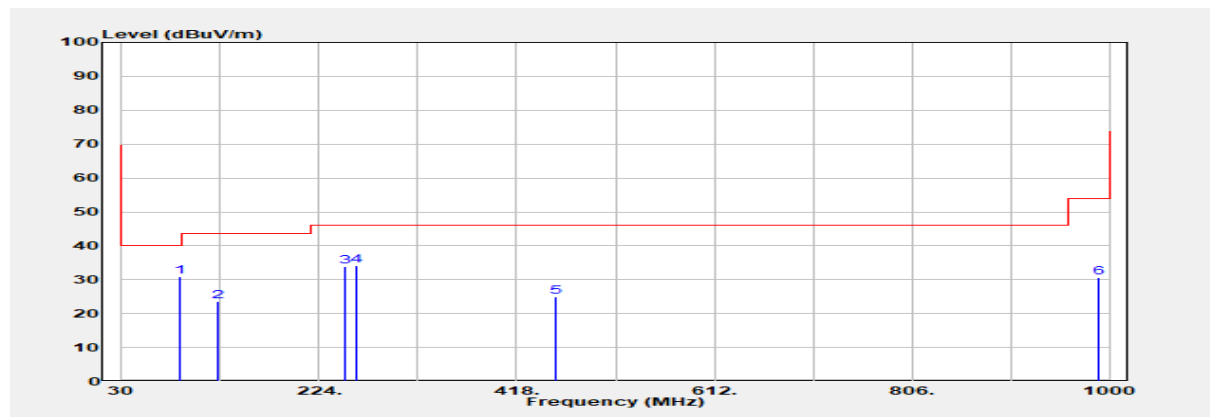
Temp./Humi. :23.8°C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
86.260	Peak	52.72	-21.79	30.93	40.00	-9.07
125.060	Peak	41.33	-17.75	23.58	43.50	-19.92
249.220	Peak	50.69	-16.77	33.92	46.00	-12.08
259.890	Peak	50.61	-16.50	34.11	46.00	-11.89
455.830	Peak	35.15	-10.22	24.93	46.00	-21.07
989.330	Peak	31.04	-0.52	30.52	54.00	-23.48

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11ac80

Test Date :2024-07-12

Test Frequency :5290 MHz

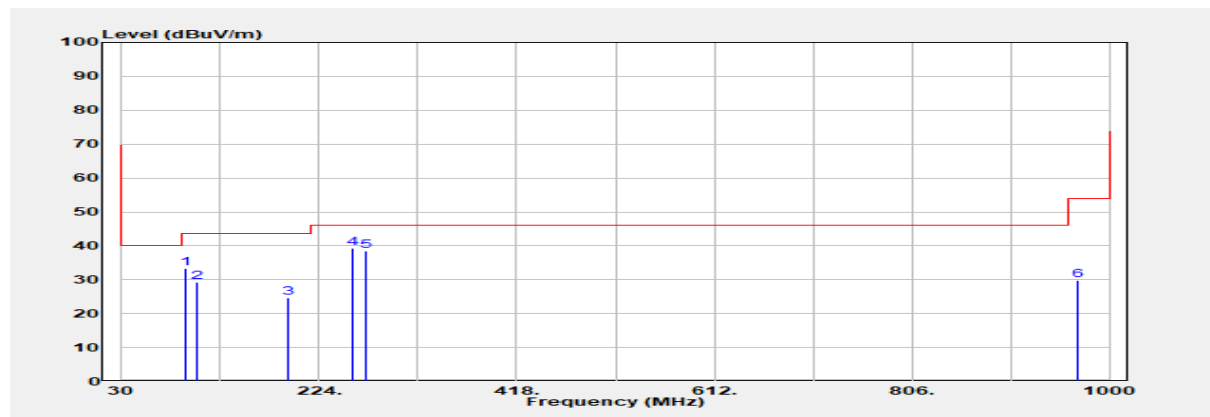
Temp./Humi. :23.8°C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
92.080	Peak	54.84	-21.59	33.25	43.50	-10.25
103.720	Peak	49.48	-20.10	29.39	43.50	-14.11
192.960	Peak	43.21	-18.59	24.62	43.50	-18.88
256.980	Peak	55.84	-16.63	39.21	46.00	-6.79
269.590	Peak	54.47	-16.07	38.40	46.00	-7.60
969.930	Peak	30.77	-0.90	29.87	54.00	-24.13

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11ac80

Test Date :2024-07-12

Test Frequency :5290 MHz

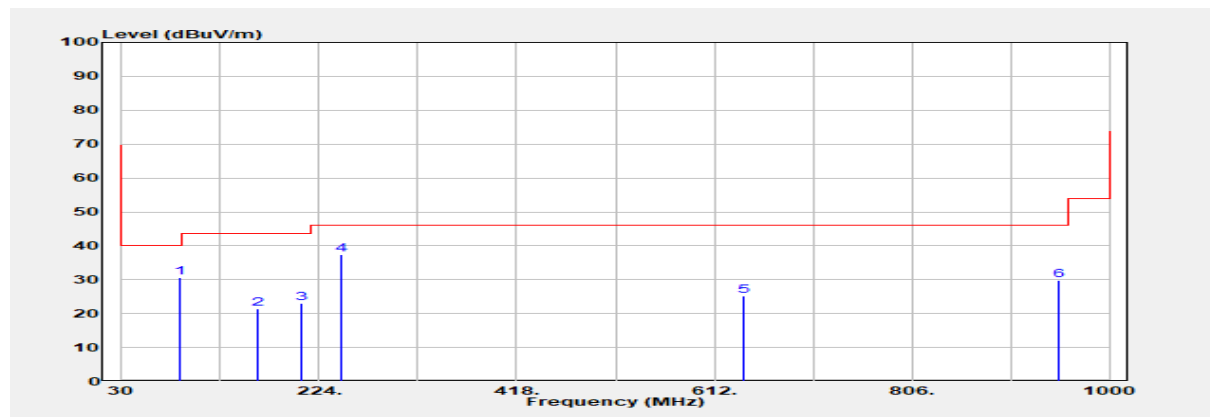
Temp./Humi. :23.8°C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
86.260	Peak	52.50	-21.79	30.72	40.00	-9.28
162.890	Peak	37.24	-15.96	21.28	43.50	-22.22
206.540	Peak	41.92	-18.78	23.14	43.50	-20.36
245.340	Peak	54.25	-16.83	37.42	46.00	-8.58
641.100	Peak	31.22	-5.91	25.31	46.00	-20.69
949.560	Peak	31.04	-1.17	29.87	46.00	-16.13

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2024-07-12

Test Frequency :5220 MHz

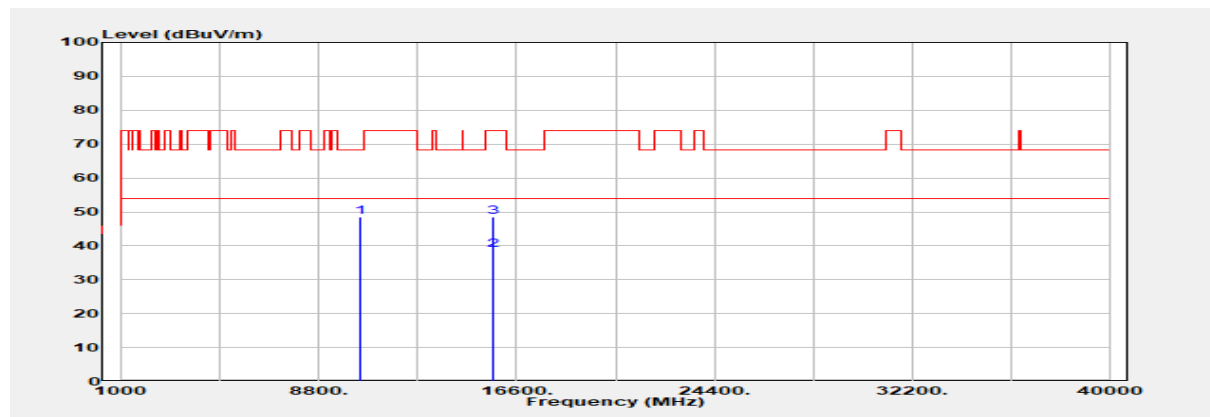
Temp./Humi. :23.8°C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.000	Peak	39.07	9.37	48.44	68.20	-19.76
15660.000	Average	32.60	6.04	38.64	54.00	-15.36
15660.000	Peak	42.36	6.04	48.40	74.00	-25.60

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2024-07-12

Test Frequency :5220 MHz

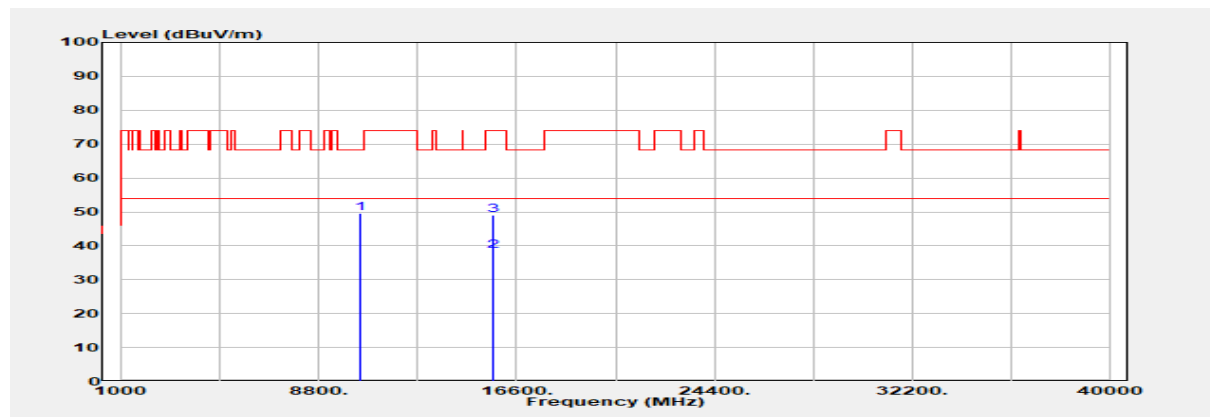
Temp./Humi. :23.8°C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.000	Peak	40.33	9.37	49.70	68.20	-18.50
15660.000	Average	32.50	6.04	38.54	54.00	-15.46
15660.000	Peak	43.02	6.04	49.06	74.00	-24.94

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

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www.sgs.com.tw

Member of SGS Group

Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2024-07-12

Test Frequency :5825 MHz

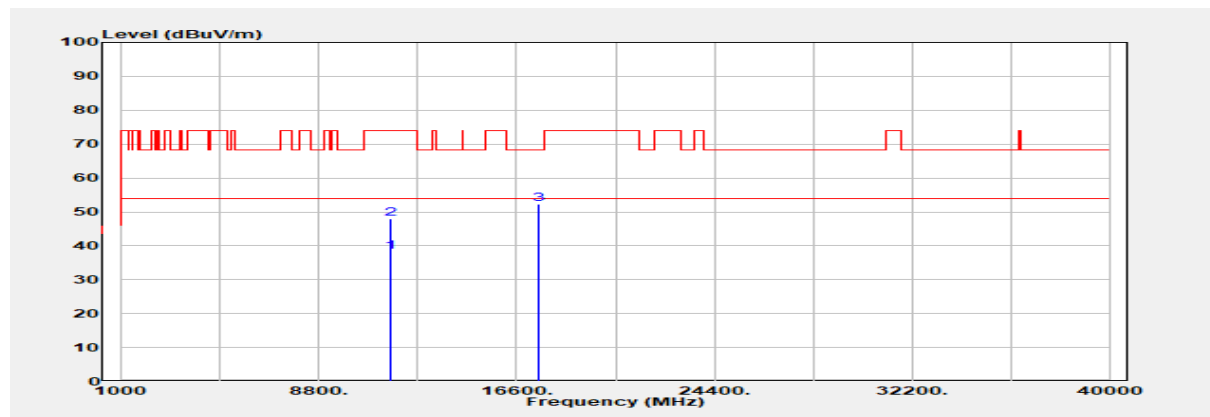
Temp./Humi. :23.8°C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.000	Average	30.48	7.71	38.19	54.00	-15.81
11650.000	Peak	40.32	7.71	48.02	74.00	-25.98
17475.000	Peak	42.37	9.98	52.35	68.20	-15.85

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2024-07-12

Test Frequency :5825 MHz

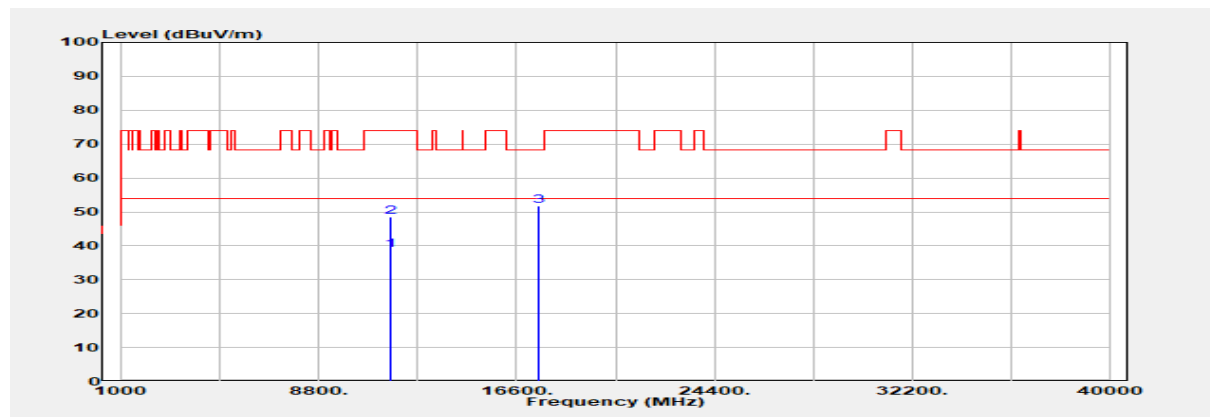
Temp./Humi. :23.8°C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.000	Average	31.06	7.71	38.77	54.00	-15.23
11650.000	Peak	40.80	7.71	48.51	74.00	-25.49
17475.000	Peak	41.65	9.98	51.63	68.20	-16.57

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11n40

Test Date :2024-07-12

Test Frequency :5795 MHz

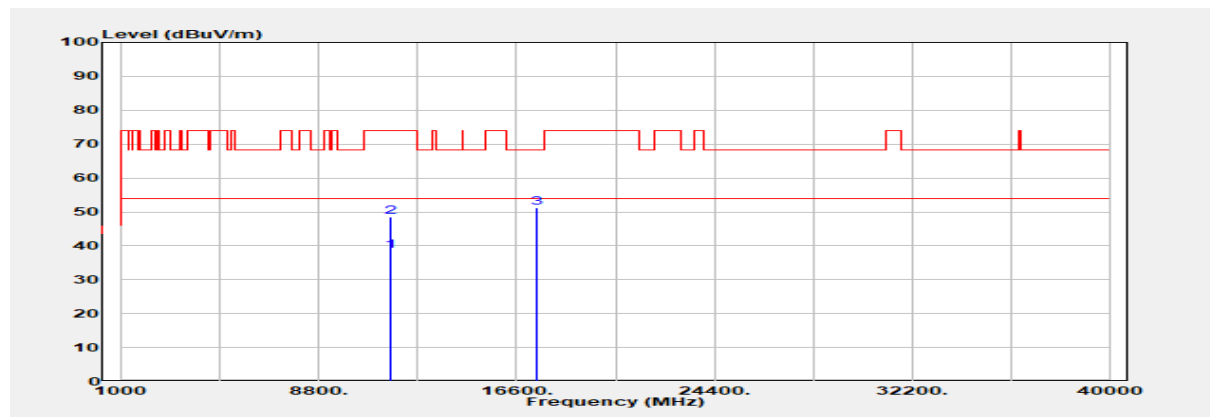
Temp./Humi. :23.8°C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.000	Average	30.83	7.57	38.40	54.00	-15.60
11590.000	Peak	40.83	7.57	48.40	74.00	-25.60
17385.000	Peak	41.01	10.14	51.15	68.20	-17.05

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11n40

Test Date :2024-07-12

Test Frequency :5795 MHz

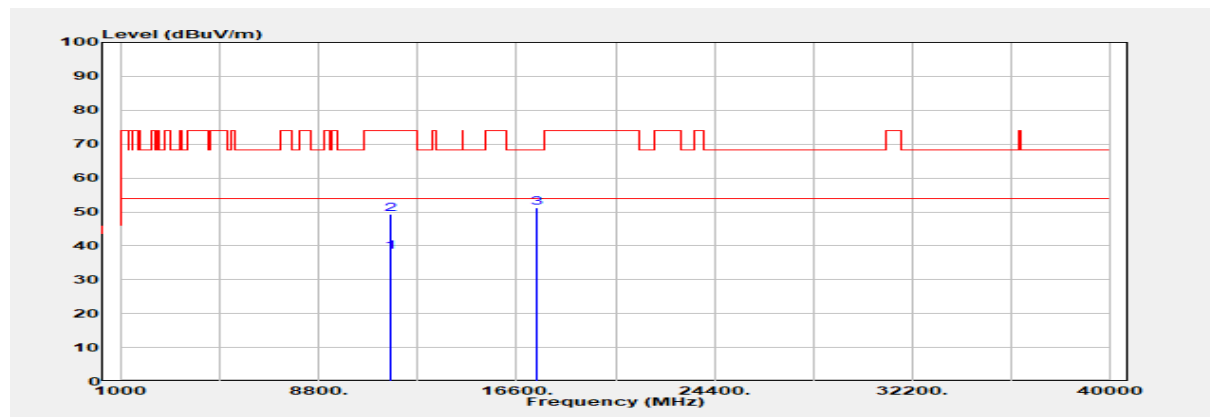
Temp./Humi. :23.8°C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.000	Average	30.66	7.57	38.23	54.00	-15.77
11590.000	Peak	41.67	7.57	49.24	74.00	-24.76
17385.000	Peak	41.18	10.14	51.32	68.20	-16.88

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11ac80

Test Date :2024-07-12

Test Frequency :5290 MHz

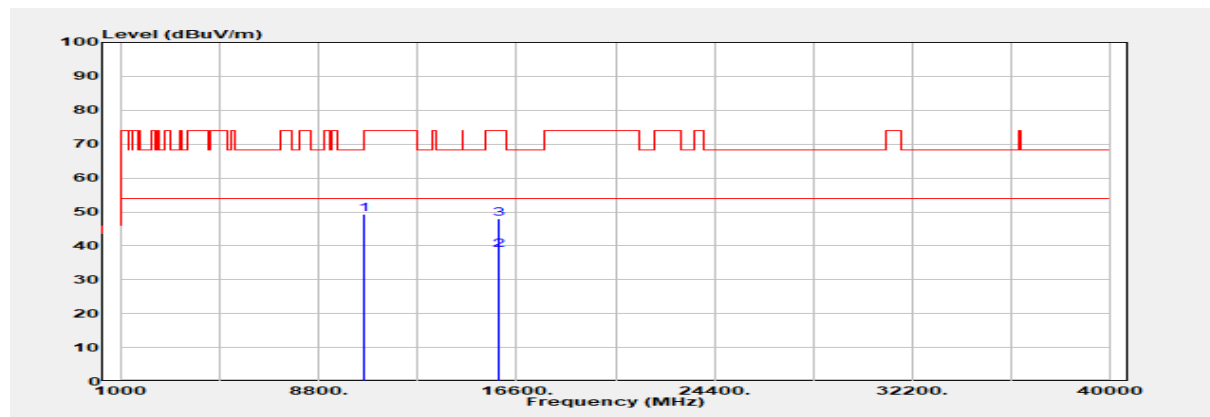
Temp./Humi. :23.8°C/53%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.000	Peak	40.60	8.68	49.27	68.20	-18.93
15870.000	Average	33.12	5.62	38.74	54.00	-15.26
15870.000	Peak	42.26	5.62	47.89	74.00	-26.11

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11ac80

Test Date :2024-07-12

Test Frequency :5290 MHz

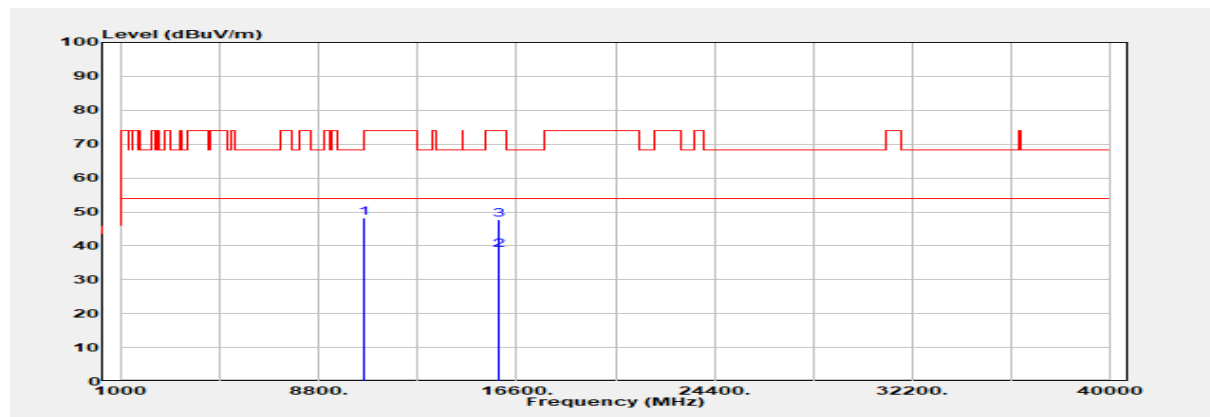
Temp./Humi. :23.8°C/53%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.000	Peak	39.51	8.68	48.18	68.20	-20.02
15870.000	Average	33.16	5.62	38.78	54.00	-15.22
15870.000	Peak	42.07	5.62	47.69	74.00	-26.31

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8.5.2 Band edge falling to restricted band

Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2024-07-12

Test Frequency :5825 MHz

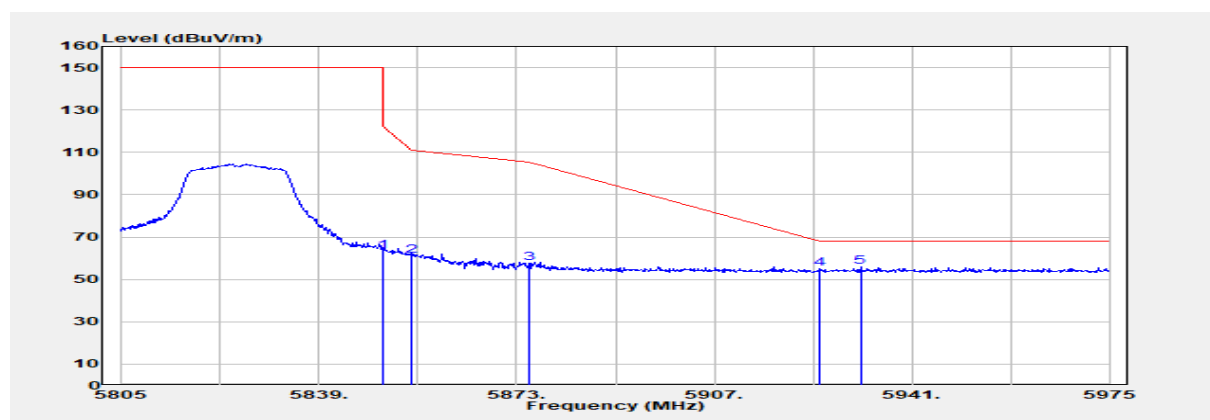
Temp./Humi. :23.8°C/53%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	61.13	2.35	63.48	122.20	-58.72
5855.000	Peak	58.97	2.36	61.33	110.80	-49.47
5875.000	Peak	55.38	2.40	57.77	105.20	-47.43
5925.000	Peak	52.43	2.60	55.02	68.20	-13.18
5932.160	Peak	53.09	2.64	55.73	68.20	-12.47

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2024-07-12

Test Frequency :5825 MHz

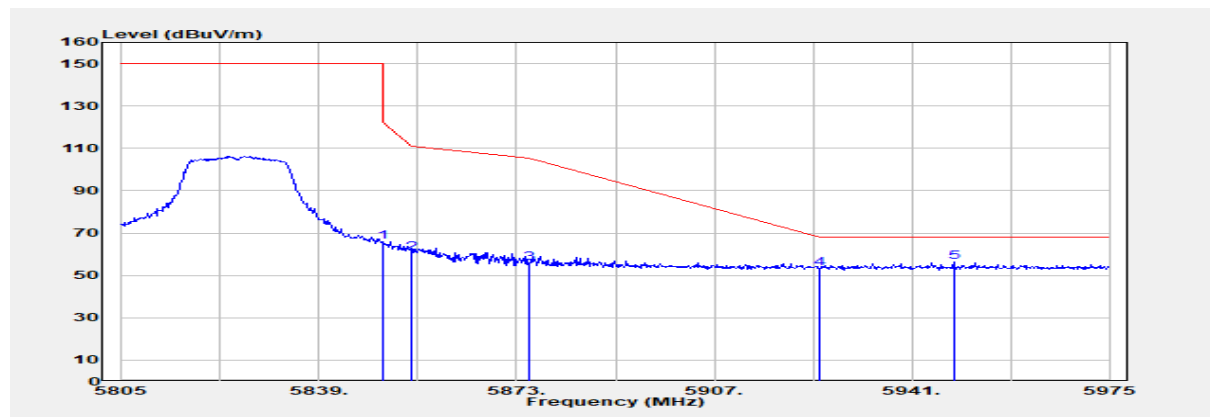
Temp./Humi. :23.8°C/53%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.000	Peak	63.70	2.35	66.04	122.20	-56.16
5855.000	Peak	58.47	2.36	60.82	110.80	-49.98
5875.000	Peak	53.71	2.40	56.11	105.20	-49.09
5925.000	Peak	50.71	2.60	53.30	68.20	-14.90
5948.310	Peak	53.51	2.73	56.24	68.20	-11.96

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11n40

Test Date :2024-07-12

Test Frequency :5795 MHz

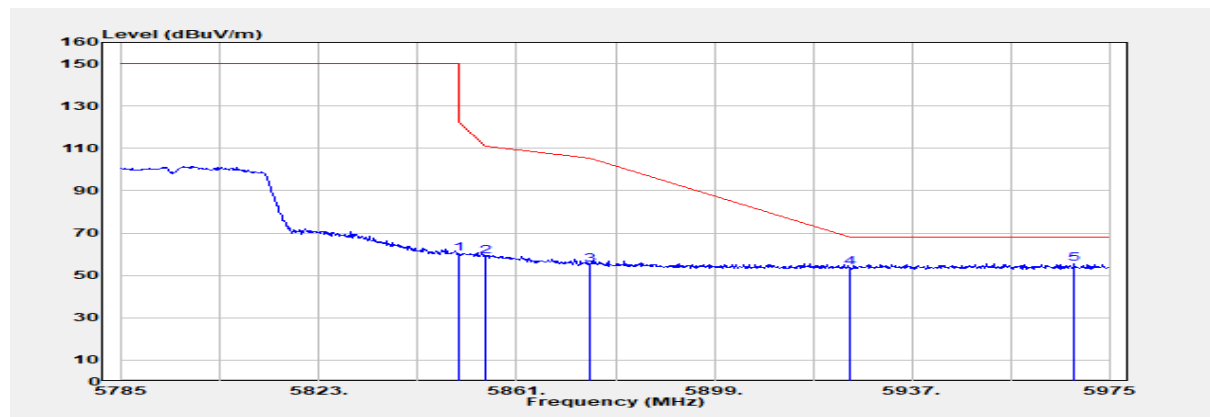
Temp./Humi. :23.8°C/53%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	58.08	2.35	60.43	122.20	-61.77
5855.000	Peak	56.47	2.36	58.83	110.80	-51.97
5875.000	Peak	52.87	2.40	55.27	105.20	-49.93
5925.000	Peak	51.06	2.60	53.66	68.20	-14.54
5968.350	Peak	52.66	2.78	55.44	68.20	-12.76

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11n40

Test Date :2024-07-12

Test Frequency :5795 MHz

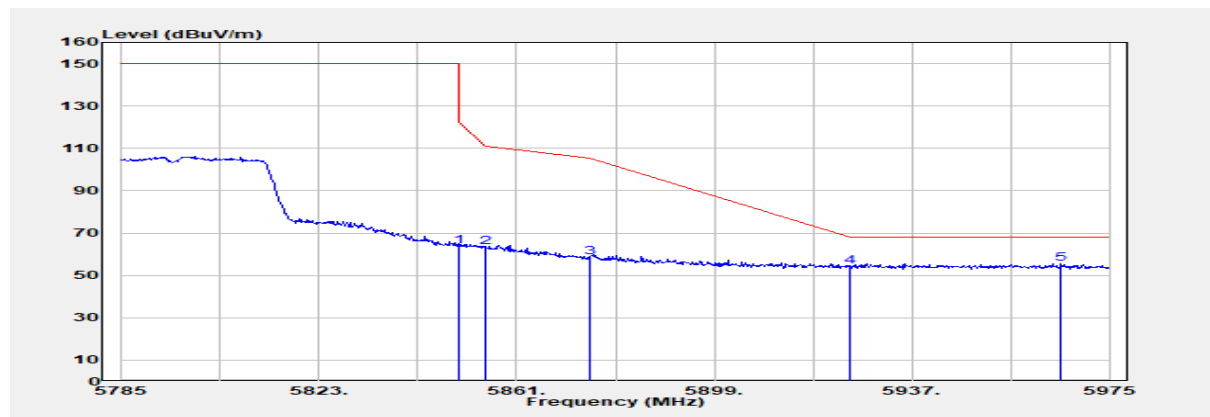
Temp./Humi. :23.8°C/53%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	61.47	2.35	63.82	122.20	-58.38
5855.000	Peak	60.91	2.36	63.27	110.80	-47.53
5875.000	Peak	55.97	2.40	58.37	105.20	-46.83
5925.000	Peak	51.40	2.60	54.00	68.20	-14.20
5965.690	Peak	52.83	2.77	55.60	68.20	-12.60

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11ac80

Test Date :2024-07-12

Test Frequency :5290 MHz

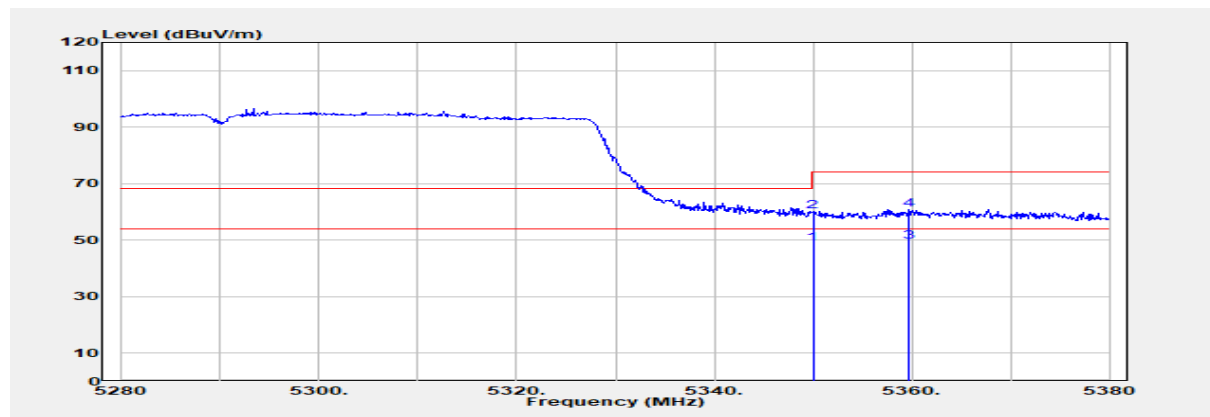
Temp./Humi. :23.8°C/53%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	48.20	0.72	48.92	54.00	-5.08
5350.000	Peak	59.40	0.72	60.12	74.00	-13.88
5359.700	Average	48.64	0.79	49.42	54.00	-4.58
5359.700	Peak	60.13	0.79	60.92	74.00	-13.08

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Report Number :TERF2405001305E2

Test Site :SAC C

Operation Mode :802.11ac80

Test Date :2024-07-12

Test Frequency :5290 MHz

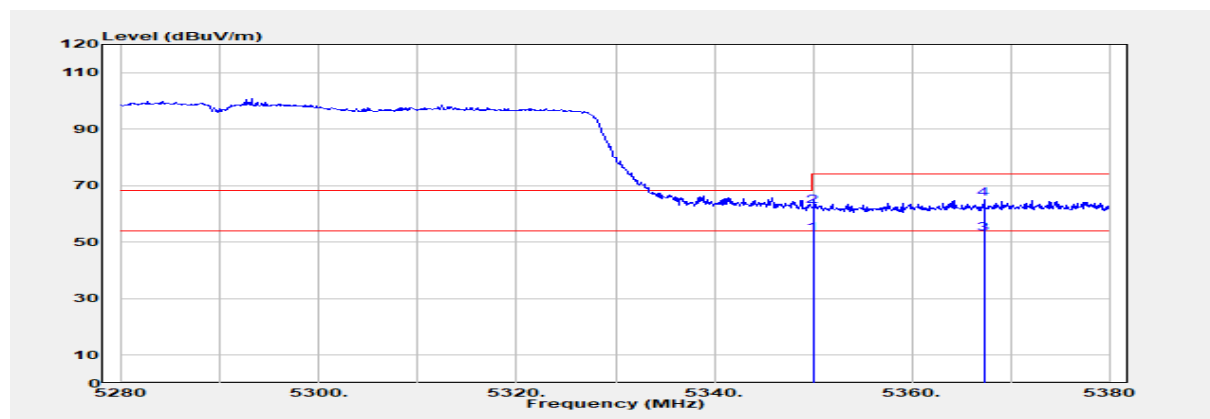
Temp./Humi. :23.8°C/53%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	52.13	0.72	52.85	54.00	-1.15
5350.000	Peak	61.89	0.72	62.61	74.00	-11.39
5367.300	Average	52.10	0.84	52.94	54.00	-1.06
5367.300	Peak	64.41	0.84	65.26	74.00	-8.74

~ End of Report ~

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