

Page: 1 of 276

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





Applicant: Precor Incorporated

20031 142nd Ave NE, Woodinville, WA 98072, USA

Manufacturer: Quanta Computer Inc.

No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City

33377, Taiwan

Product Name: Precor console

Brand Name: Precor

Model No.: P84, P94

Model Difference: LCD panel difference, LCD panel size (P84:15.6", P94: 21.5")

Report Number: TERF2304000940E2

FCC ID SZNPRCR304233

IC: 7156A-PRCR304233

Date of EUT Received: April 20, 2023

Date of Test: April 21,2023 ~ May 19,2023

Issue Date: June 21, 2023

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, ISED RSS-247.

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

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Page: 2 of 276

Revision History								
Report Number	Revision	Description	Issue Date	Revised By	Remark			
TERF2304000940E2	00	Original.	June 21, 2023	Tiffany Kao				

Note:

- 1 . The remark "*" indicates modification of the report upon requests from certification body.
- 2 · Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received, and spot check is performed to demonstrate compliance for the variant.

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Page: 3 of 276

Contents

1	GENERAL INFORMATION	4
2	SYSTEM TEST CONFIGURATION	8
3	SUMMARY OF TEST RESULT	11
4	DESCRIPTION OF TEST MODES	12
5	MEASUREMENT UNCERTAINTY	15
6	MEASUREMENT EQUIPMENT USED	16
7	CONDUCTED EMISSION TEST	17
8	EMISSION BANDWIDTH MEASUREMENT	20
9	MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT	56
10	MAXIMUM POWER SPECTRAL DENSITY	81
11	UNDESIRABLE RADIATED EMISSION MEASUREMENT	103
12	TRANSMISSION IN THE ABSENCE OF DATA	275
13	ANTENNA REQUIREMENT	276

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Page: 4 of 276

GENERAL INFORMATION

1.1 **Product Description**

Product Name:	Precor console
Brand Name:	Precor
Model No.:	P84, P94
Model Difference:	LCD panel difference, LCD panel size (P84:15.6", P94: 21.5")
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	TE_SP_20230403308
Power Supply:	12V
Test Software (Name/Version)	Qualcomm Radio Control Toolkit v4.0/version 4.0.00206.0

1.2 **Modulation & Data Rate**

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM			
	256QAM for OFDM in 802.11ac			
	802.11 a: 6 - 54 Mbps			
	802.11 n_20MHz: up to 144.4 Mbps			
Transition Rate:	802.11 n_40MHz: up to 300 Mbps			
mansition Nate.	802.11 ac_20MHz: up to 173.4 Mbps			
	802.11 ac_40MHz: up to 400 Mbps			
	802.11 ac_80MHz: up to 866.6 Mbps			

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Page: 5 of 276

1.3 **Antenna Designation**

P84:

Antenna Type	Supplier	Antenna Model No. No.	Antenna No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
Dipole	AWAN	DQ60AEP8P00	WIFI 0	5150~5850	2.85	5.81
Antenna	AVVAIN	DQ60AEP8P01	WIFI 1	5150~5850	2.74	5.01

P94:

Antenna Type	Supplier	Antenna Model No. No.	Antenna No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
Dipole	AWAN	DQ60AEP8P02	WIFI 0	5150~5850	2.75	5.78
Antenna	AVVAIN	DQ60AEP8P04	WIFI 1	5150~5850	2.79	5.76

Note:

- 1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
- 2. Antenna information is provided by the applicant.

1.4 **FCC**

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a/	5180~5240	4	13.99 dBm	OFDM
n_HT/	5260~5320	4	19.47 dBm	OFDM
ac_VHT 20M	5500~5720	12	19.47 dBm	OFDM
ZOIVI	5745-5825	5	19.42 dBm	OFDM
	5190~5230	2	16.46 dBm	OFDM
n_HT/ ac_VHT	5270~5310	2	16.40 dBm	OFDM
40M	5510~5710	6	16.44 dBm	OFDM
	5755-5795	2	16.47 dBm	OFDM
	5210	1	16.48 dBm	OFDM
ac_VHT	5290	1	13.47 dBm	OFDM
80M	5530~5690	3	16.42 dBm	OFDM
	5775	1	16.47 dBm	OFDM

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Page: 6 of 276

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Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)		Modulation Technology
	5180~5240	4	EIRP	19.80	dBm	OFDM
a/	5260~5320	4	Avg	19.47	dBm	OFDM
a/ n_HT/	5500~5700	11	Avg	19.47	dBm	OFDM
ac_VHT 20M	5720 (U-NII 2C)	1	Avg	18.09	dBm	OFDM
ZUIVI	5720 (U-NII 3)	1	Avg	13.72	dBm	OFDM
	5745-5825	5	Avg	19.42	dBm	OFDM
	5190~5230	2	EIRP	22.27	dBm	OFDM
	5270~5310	2	Avg	16.40	dBm	OFDM
n_HT/	5510~5670	5	Avg	16.44	dBm	OFDM
ac_VHT 40M	5710 (U-NII 2C)	1	Avg	15.99	dBm	OFDM
	5710 (U-NII 3)	1	Avg	7.83	dBm	OFDM
	5755-5795	2	Avg	16.47	dBm	OFDM
	5210	1	EIRP	22.29	dBm	OFDM
	5290	1	Avg	13.47	dBm	OFDM
ac_VHT	5530~5610	2	Avg	16.42	dBm	OFDM
80M	5690 (U-NII 2C)	1	Avg	16.40	dBm	OFDM
	5690 (U-NII 3)	1	Avg	5.69	dBm	OFDM
	5775	1	Avg	16.47	dBm	OFDM

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Page: 7 of 276

Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 291074 D02 EMC Measurement v01

RSS-247 issue 2 Feb. 2017

RSS-Gen, issue 5 April, 2018

ANSI C63.10:2013

1.7 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 2		
		SAC 3		
	No 124 Wu Kung Bood New Toingi	Conduction 1		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New	Conducted 1	TW0027	TW3702
	Taipei City, Taiwan.	Conducted 2	1 440027	
	raiper Oity, raiwan.	Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C	_	
(TAF code 3702)		SAC C		
		SAC D		
	No 2 Kaii 4at Dd. Cuishan Diatriat	SAC G		
		Conducted A		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted B	TW0028	
	laoydan Oity, Taiwan 333	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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Page: 8 of 276

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 a 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 a 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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Page: 9 of 276

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

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.

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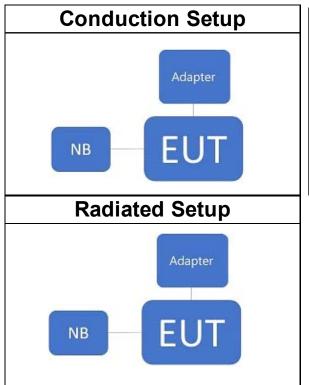
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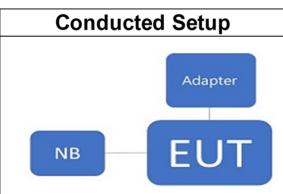


Page: 10 of 276



2.5 **Test Configuration**





2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Notebook	Lenovo	T420	S0012599	N/A	N/A			
Conducted Emission Test Site: Conducted D								
EQUIPMENT TYPE MFR		MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Notebook	ook Lenovo T14		P0002332	N/A	N/A			
Radiated Emission Test Site: SAC G								
EQUIPMENT TYPE	EQUIPMENT TYPE MFR		SERIAL NUMBER	LAST CAL.	CAL DUE.			
Notebook	Lenovo	L480	P0002332	N/A	N/A			

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Page: 11 of 276

SUMMARY OF TEST RESULT

FCC Rules	ISED Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.407(e)	RSS-Gen §6.7 RSS-247 §6.2.4.1	Emission Bandwidth	Compliant
§15.407(a) RSS-247 §6.2.1~ 4 (1)		Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b) RSS-247 §6.2.1~ 4 (2)		Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.203	N/A	Antenna Requirement	Compliant

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Page: 12 of 276

DESCRIPTION OF TEST MODES

Operating Frequencies Operated band in 5150 MHz ~5250 MHz:

Opci	operated barra in 3130 wirtz 3230 wirtz.						
20 M			40 M		80 M		
СН	Freq (MHz)		СН	Freq (MHz)	СН	Freq (MHz)	
36	5180		38	5190	42	5210	
40	5200		46	5230			
44	5220						
48	5240						

Operated band	l in 5250 MHz	~5350 MHz:

20 M						
СН	Freq					
CH	(MHz)					
52	5260					
56	5280					
60	5300					
64	5320					

4	40 M					
СН	Freq (MHz)					
54	5270					
62	5310					

•	7556	1411 12.			
	8	0 M	160 M		
	СН	Freq (MHz)	СН	Freq (MHz)	
	58	5290	50	5250	

Operated band in 5470 MHz ~5725 MHz:

80 M Freq

106

122

138

(MHz)

5530

5610

5690

Ope	i aleu b	an	u III i	3470 IV
- 2	20 M		4	0 M
СН	Freq (MHz)		СН	Freq (MHz)
100	5500		102	5510
104	5520		110	5550
108	5540		118	5590
112	5560		126	5630
116	5580		134	5670
120	5600		142	5710
124	5620			
128	5640			
132	5660			
136	5680			
140	5700			

16	50 M
СН	Freq (MHz)
114	5570

Operated band in 5725 MHz ~5850 MHz:

	20 M
СН	Freq (MHz)
149	5745
153	5765
157	5785
161	5805
165	5825

4	10 M	80 M			
СН	Freq (MHz)	СН	Freq (MHz)		
151	5755	155	5775		
159	5795				

Note:

5850~5895 MHz is not available for operation in Canada.

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Page: 13 of 276

The Worst Test Modes and Channel Details

- 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.

ſ	Modulation			Transmission Chain		Tr	Single ansmission Spatial	Tr	Multiple ansmission Spatial		
V	802.11 a	٧	Ch0	٧	Ch1	Ch2	Ch3		1TX	٧	2TX
V	802.11 n	٧	Ch0	٧	Ch1	Ch2	Ch3		1TX	٧	2TX
V	802.11 ac	٧	Ch0	٧	Ch1	Ch2	Ch3		1TX	٧	2TX

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	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA				
WODL	BAND (MHz)	CHANNEL	CHANNEL	WODULATION	(Mbps)	PORT				
	5180~5240	36 to 48	36,44,48							
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	2TX				
002.11a	5500~5720	100 to 144	100,116,140,144	OI DIWI	O Company	217				
	5745~5825	149 to 165	149,157,165							
	5180~5240	36 to 48	36,44,48		MCS0					
802.11n_HT20	5260~5320	52 to 64	52,60,64	OFDM		2TX				
002.1111_111.20	5500~5720	100 to 144	100,116,140,144			217				
	5745~5825	149 to 165	149,157,165							
	5190~5230	38 to 46	38,46							
802.11n HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	2TX				
002.1111_111 40	5510~5670	102 to 142	102,110,134,142	OI DIWI	WOO	217				
	5755~5795	151 to 159	151,159							
	5210	42	42							
802.11ac VHT80	5290	58	58	OFDM	MCS0	2TX				
002.11d0_V11100	5530~5610	106 to 138	106,122,138	OI DIWI	WOO	217				
	5775	155	155							

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Page: 14 of 276

	1		DIATED EMISS	ION TEST (BE	•		
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA	
	BAND (MHz)	CHANNEL	CHANNEL		(Mbps)	PORT	
	5180~5240	36 to 48	44				
802.11a	5260~5320	52 to 64	60	OFDM	6	2TX	
002.11d	5500~5720	100 to 144	116	OI DIWI	Ü	ZIX	
	5745~5825	149 to 165	157				
	5210	42	42				
802.11ac80	5290	58	58	OFDM	MCSO	2TX	
002.118000	5530~5690	106 to 138	106	OI DIVI	MCS0	217	
	5775	155	155				
		RA	DIATED EMISS	ION TEST (AB	OVE 1 GHz)		
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA	
MODE	BAND (MHz)	CHANNEL	CHANNEL	MODULATION	(Mbps)	PORT	
	5180~5240	36 to 48	36,44,48				
000.44	5260~5320	52 to 64	52,60,64	0501		0.7.\/	
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	2TX	
	5745~5825	149 to 165	149,157,165				
	5180~5240	36 to 48	36,44,48				
00044 11700	5260~5320	52 to 64	52,60,64	0504	M000	0.7.\/	
802.11n_HT20	5500~5720	100 to 144	100,116,140,144	OFDM	MCS0	2TX	
	5745~5825	149 to 165	149,157,165				
	5190~5230	38 to 46	38,46				
000 44 117 40	5270~5310	54 to 62	54,62	0504		0.777	
802.11n_HT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS0	2TX	
	5755~5795	151 to 159	151,159	1			
	5210	42	42				
00044 141700	5290	58	58	0504	11000	0.7.\	
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	2TX	
	5775	155	155				

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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Page: 15 of 276

5 MEASUREMENT UNCERTAINTY

Test Items	Un	certain	ty
AC Power Line Conducted Emission	+/-	2.32	dB
Output Power measurement	+/-	1	dB
Emission Bandwidth	+/-	1.53	Hz
Undesignable radiated emission measure- ment	+/-	1.68	dB
Peak Power Density	+/-	2.16	dB
Temperature	+/-	0.7	Ş
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty				
	+/-	2.8	dB	9kHz~30MHz
Polarization: Vertical	+/-	4.82	dB	30MHz - 1000MHz
Polarization: Vertical	+/-	4.37	dB	1GHz - 18GHz
	+/-	4.21	dB	18GHz - 40GHz
	+/-	2.8	dB	9kHz~30MHz
Polarization: Horizontal	+/-	4.54	dB	30MHz - 1000MHz
Polarization: Horizontal	+/-	4.37	dB	1GHz - 18GHz
	+/-	4.21	dB	18GHz - 40GHz

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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Page: 16 of 276

MEASUREMENT EQUIPMENT USED

6.1 **Emission from AC power line**

AC Power-Line Conducted Emission Test Site: Conduction C							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
LISN	SCHWARZBECK	NSLK8127	973	04/20/2023	04/19/2024		
EMI Test Receiver	R&S	ESCI	101342	04/25/2023	04/24/2024		
Coaxial Cable	EC La b	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2023	03/26/2024		
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2023	03/26/2024		
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R		

6.2 **Condcuted Measurement**

Conducted Emission Test Site: Conducted D							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/08/2022	06/07/2023		
Power Meter	Anritsu	ML2496A	1804002	04/26/2023	04/25/2024		
Power Sensor	Anritsu	MA2411B	1726105	04/26/2023	04/25/2024		
Power Sensor	Anritsu	MA2411B	1726106	04/26/2023	04/25/2024		
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R		
Attenuator	Woken	WATT-218FS-10	RF17	11/16/2022	11/15/2023		
Attenuator	Woken	WATT-218FS-10	RF18	11/16/2022	11/15/2023		
Attenuator	Woken	WATT-218FS-10	RF21	11/16/2022	11/15/2023		
Switch E-Channel	E-Channel	ETF-1801 RF Switch	EC2100175	11/16/2022	11/15/2023		
DC Block	PASTERNACK	PE8210	RF156	11/16/2022	11/15/2023		

6.3 **Radiated Measurement**

	Radiated Emission Test Site: SAC G							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Broadband Antenna	SCHWARZBECK	VULB 9168	1208	07/07/2022	07/06/2023			
Horn Antenna	Schwarzbeck	BBHA9170	184	12/30/2022	12/29/2023			
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/18/2023	04/17/2024			
Loop Antenna	ETS.LINDGREN	6502	14303	05/14/2022	05/13/2023			
3m Site NSA	SGS	966 chamber G	N/A	03/30/2023	03/29/2024			
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2022	07/12/2023			
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R			
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	10/25/2022	10/24/2023			
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2023	03/14/2024			
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2023	03/14/2024			
Coaxial Cable	EMCInstruments	EMCCFD400-NM- NM-8000-5000-2000	210216 ` 210217 ` 210218	03/15/2023	03/14/2024			
Coaxial Cable	EMC Instruments	EMC104-SM-SM- 8000-5000-5000	210219 ` 210220 ` 210221	03/15/2023	03/14/2024			
Coaxial Cable	EMC Instruments	EMC105-NM-NM- 5000-15000	210224 ` 210306	03/15/2023	03/14/2024			

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

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Page: 17 of 276

CONDUCTED EMISSION TEST

7.1 Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

Frequency range	Limits (dBuV)			
MHz	Quasi-peak	Average		
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		

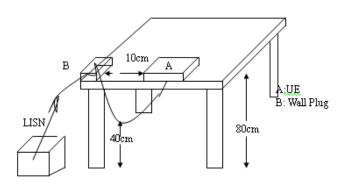
Note

- 1. The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 **EUT Setup**

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- 3. The LISN was connected with 120Vac/60Hz power source.

7.3 **Test SET-UP**



7.4 **Measurement Procedure**

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- Repeat above procedures until all phases of power being supplied by given UE are completed.

7.5 **Measurement Result**

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

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Page: 18 of 276

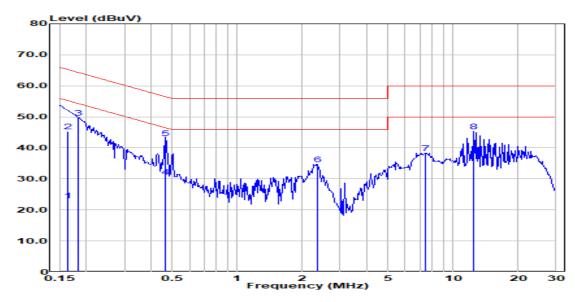
AC POWER LINE CONDUCTED EMISSION TEST DATA

:Conduction C Report Number :TERF2304000940E2 Test Site

Test Mode :WLAN 5G **Test Date** :2023-05-10

Power :120V/60Hz Temp./Humi. :23.8/55

Probe Engineer :Temo Chen :L1



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.163	Average	12.80	10.32	23.12	55.30	-32.18
0.163	QP	34.90	10.32	45.22	65.30	-20.08
0.183	Peak	39.44	10.31	49.75	64.33	-14.57
0.466	Average	20.30	10.33	30.63	46.58	-15.95
0.466	QP	32.80	10.33	43.13	56.58	-13.45
2.358	Peak	23.64	11.05	34.69	56.00	-21.31
7.407	Peak	27.75	10.58	38.33	60.00	-21.67
12.449	Peak	34.72	10.67	45.40	60.00	-14.60

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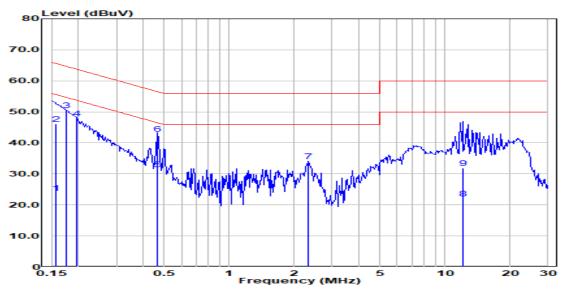
Page: 19 of 276

Report Number :TERF2304000940E2 **Test Site** :Conduction C

Test Mode :WLAN 5G **Test Date** :2023-05-10

Power :120V/60Hz Temp./Humi. :23.8/55

Probe :N Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
•	Mode	Reading Level		FS		J
		•	ID.		1D 17	ı.
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.156	Average	13.60	10.30	23.90	55.65	-31.75
	•					
0.156	QP	35.90	10.30	46.20	65.65	-19.45
0.176	Peak	40.22	10.30	50.52	64.68	-14.15
0.198	Peak	37.71	10.30	48.01	63.71	-15.70
0.466	Average	21.10	10.31	31.41	46.58	-15.17
0.466	QP	32.60	10.31	42.91	56.58	-13.67
2.334	Peak	23.01	11.05	34.06	56.00	-21.94
12.060	Average	11.40	10.72	22.12	50.00	-27.88
12.060	QP	21.10	10.72	31.82	60.00	-28.18

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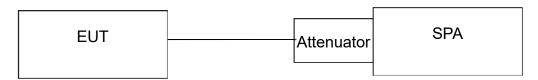
Page: 20 of 276

8 EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C. The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3.

8.2 Test Setup



8.3 Measurement Procedure

- 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 spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto,

Detector = Peak,

Trace Mode = Max Hold,

Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.

- 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
- 4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
- 5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as

RBW = 100 kHz,

VBW = 3*RBW,

Span = large enough to capture all products of the modulation process,

Detector=Peak.

Sweep=auto

- b. Mark the peak frequency and -6dB (upper and lower) frequency.
- 6. For 99% Bandwidth: Set the spectrum analyzer as

RBW = 1%.

VBW = 3*RBW.

Span = large enough to capture all products of the modulation process,

Detector=Sample,

Sweep=auto.

- 7. Turn on the 99% bandwidth function, max reading.
- 8. Repeat above procedures until all frequency of interest measured was complete.

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Page: 21 of 276

8.4 Measurement Result

8.4.1 FCC Occupied Bandwidth

802.11a_Ch0

802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.36	13.300	5180	21.58	13.340
5220	21.56	13.340	5220	21.07	13.240
5240	22.69	13.560	5240	22.05	13.430
5260	22.08	13.440	5260	21.80	13.380
5300	22.11	13.450	5300	22.88	13.590
5320	21.27	13.280	5320	20.70	13.160
5500	20.71	13.160	5500	21.41	13.310
5580	23.19	13.650	5580	22.24	13.470
5700	22.11	13.450	5700	22.25	13.470
5720(U-NII 2C)	15.77	11.980	5720(U-NII 2C)	15.73	11.970
5720(U-NII 3)	5.77	7.620	5720(U-NII 3)	5.73	7.580

802.11a_Ch0

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.41	11.880	5745	16.34	12.130
5785	15.75	11.970	5785	15.64	11.940
5825	14.80	11.700	5825	16.32	12.130

802.11a_Ch0

	eq. Hz)	Measured Freq. (MHz)	Limit (MHz)
52	240	5248.30	< 5250
57	'45	5736.82	> 5725

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.36	< 5250
5745	5736.80	> 5725

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Page: 22 of 276

802.11n_HT20_Ch0

802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.95	13.410	5180	22.83	13.590
5220	22.57	13.540	5220	22.37	13.500
5240	22.19	13.460	5240	22.29	13.480
5260	21.91	13.410	5260	22.59	13.540
5300	21.52	13.330	5300	21.87	13.400
5320	22.85	13.590	5320	22.64	13.550
5500	20.97	13.220	5500	22.08	13.440
5580	22.16	13.460	5580	20.93	13.210
5700	21.42	13.310	5700	22.82	13.580
5720(U-NII 2C)	17.39	12.400	5720(U-NII 2C)	16.27	12.110
5720(U-NII 3)	7.39	8.680	5720(U-NII 3)	6.27	7.970

802.11n_HT20_Ch0

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.90	12.280	5745	16.77	12.250
5785	15.62	11.940	5785	16.90	12.280
5825	16.96	12.290	5825	16.74	12.240

802.11n_HT20_Ch0

5745

Freq.	Freq.	Limit
(MHz)	(MHz)	(MHz)
5240	5248.93	

5736.18

> 5725

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.89	< 5250
5745	5736.20	> 5725

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Page: 23 of 276

802.11n_HT40_Ch0

802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.81	16.110	5190	40.72	16.100
5230	40.72	16.100	5230	41.48	16.180
5270	41.00	16.130	5270	40.88	16.120
5310	41.58	16.190	5310	40.89	16.120
5510	40.73	16.100	5510	40.82	16.110
5550	40.97	16.120	5550	40.55	16.080
5670	41.43	16.170	5670	41.09	16.140
5710(U-NII 2C)	35.44	15.490	5710(U-NII 2C)	35.38	15.490
5710(U-NII 3)	5.44	7.350	5710(U-NII 3)	5.38	7.310

802.11n_HT40_Ch0

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	30.14	14.790	5755	35.74	15.530
5795	35.65	15.520	5795	35.76	15.530

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.13	< 5250
5755	5737.01	> 5725

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.13	< 5250
5755	5736.93	> 5725

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Page: 24 of 276

802.11ac_VHT80_Ch0

802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	83.84	19.230	5210	81.56	19.110
5290	83.53	19.220	5290	83.22	19.200
5530	82.81	19.180	5530	83.56	19.220
5610	82.72	19.180	5610	82.57	19.170
5690(U-NII 2C)	76.49	18.840	5690(U-NII 2C)	76.51	18.840
5690(U-NII 3)	6.49	8.130	5690(U-NII 3)	6.51	8.130

802.11ac_VHT80_Ch0

802.11ac_VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.77	18.790	5775	75.42	18.770

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.93	< 5250
5775	5737.46	> 5725

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.87	< 5250
5775	5737.48	> 5725

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Page: 25 of 276



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Page: 26 of 276



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Page: 27 of 276



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Page: 30 of 276



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Page: 31 of 276



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Page: 32 of 276



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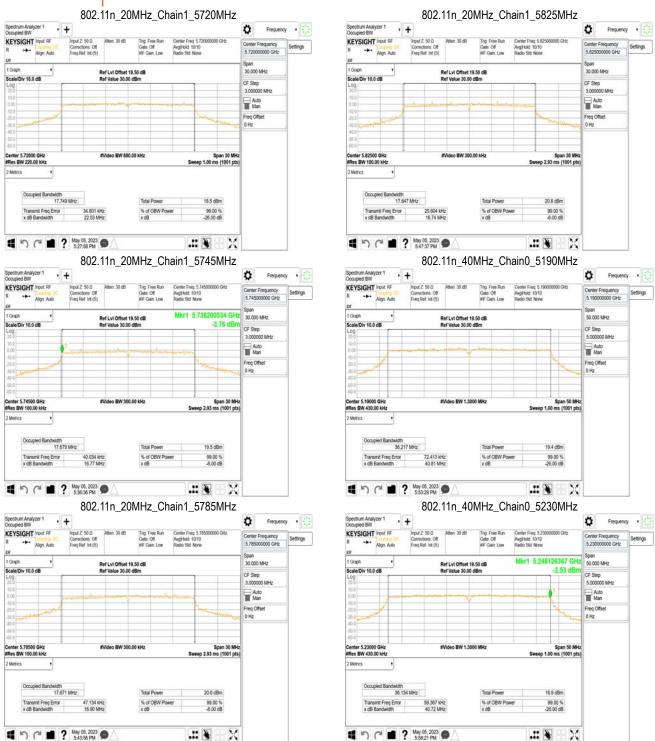
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Page: 34 of 276



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Page: 35 of 276



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Page: 36 of 276



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Page: 37 of 276



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Page: 38 of 276



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Page: 39 of 276

8.4.2 **ISED Occupied Bandwidth**

802.11a Ch0 802.11a Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.527	12.180	5180	16.542	12.190
5220	16.455	12.160	5220	16.537	12.180
5240	16.524	12.180	5240	16.525	12.180
5260	16.489	12.170	5260	16.510	12.180
5300	16.519	12.180	5300	16.509	12.180
5320	16.540	12.190	5320	16.490	12.170
5500	16.477	12.170	5500	16.510	12.180
5580	16.552	12.190	5580	16.517	12.180
5700	16.566	12.190	5700	16.500	12.170
5720(U-NII 2C)	13.260	11.230	5720(U-NII 2C)	13.244	11.220
5720(U-NII 3)	3.260	5.130	5720(U-NII 3)	3.244	5.110

802.11a_Ch0 802.11a_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)	Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	16.532	15.990	5745	16.547	16.190
5785	16.509	16.120	5785	16.558	16.380
5825	16.553	16.330	5825	16.562	16.180

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Page: 40 of 276

802.11n_HT20_Ch0

802.11n_HT20_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.764	12.500	5180	17.722	12.490
5220	17.672	12.470	5220	17.699	12.480
5240	17.759	12.490	5240		12.480
5260	17.761	12.490	5260	17.714	12.480
5300	17.696	12.480	5300	17.703	12.480
5320	17.692	12.480	5320	17.682	12.480
5500	17.690	12.480	5500	17.739	12.490
5580	17.717	12.480	5580	17.702	12.480
5700	17.704	12.480	5700	17.721	12.480
5720(U-NII 2C)	13.898	11.430	5720(U-NII 2C)	13.859	11.420
5720(U-NII 3)	3.898	5.910	5720(U-NII 3)	3.859	5.860
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802.11n_HT20_Ch0

802.11n_HT20_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)	Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	17.765	17.190	5745	17.738	17.150
5785	17.716	16.880	5785	17.711	17.500
5825	17.737	17.330	5825	17.693	16.830

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Page: 41 of 276

802.11n_HT40_Ch0

802.11n_HT40_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.209	15.590	5190	36.121	15.580
5230	36.123	15.580	5230	36.149	15.580
5270	36.171	15.580	5270	36.152	15.580
5310	36.172	15.580	5310	36.181	15.580
5510	36.213	15.590	5510	36.045	15.570
5550	36.162	15.580	5550	36.174	15.580
5670	36.198	15.590	5670	36.144	15.580
5710(U-NII 2C)	33.074	15.190	5710(U-NII 2C)	33.106	15.200
5710(U-NII 3)	3.074	4.880	5710(U-NII 3)	3.106	4.920

802.11n HT40 Ch0

802.11n HT40 Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)	Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5755	36.130	36.070	5755	36.124	35.980
5795	36.097	36.170	5795	36.163	35.970

802.11ac VHT80 Ch0

802.11ac_VHT80_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.606	18.790	5210	75.574	18.780
5290	75.699	18.790	5290	75.676	18.790
5530	75.499	18.780	5530	75.623	18.790
5610	75.690	18.790	5610	75.709	18.790
5690(U-NII 2C)	72.917	18.630	5690(U-NII 2C)	72.843	18.620
5690(U-NII 3)	2.917	4.650	5690(U-NII 3)	2.843	4.540

802.11ac_VHT80_Ch0

802.11ac_VHT80_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)	Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5775	75.601	75.750	5775	75.565	75.980

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Page: 42 of 276



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Page: 43 of 276



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Page: 44 of 276



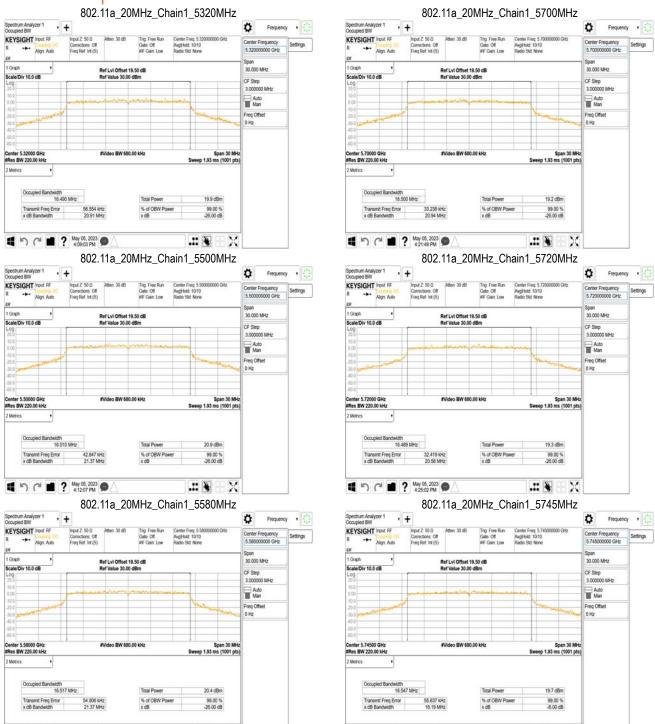
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Page: 45 of 276



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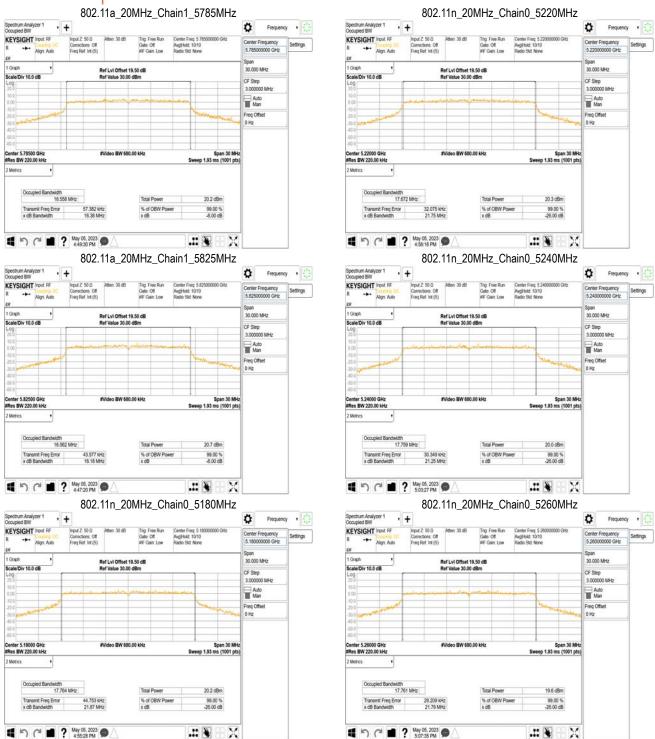
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Page: 46 of 276



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Page: 47 of 276



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Page: 48 of 276



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Page: 49 of 276



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Page: 50 of 276



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Page: 51 of 276



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Page: 52 of 276



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Page: 53 of 276



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Page: 54 of 276



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Page: 55 of 276



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Page: 56 of 276

MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

9.1.1 **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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Page: 57 of 276

9.1.2 Output Power

			e-CRF Title 47 §15.407							
Band	d EUT CATEGORY		Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements				
		Fixed point-to- point	1 Watt(30dBm)	Not required	Not required	23dBi				
U-NII-1		Out door AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi				
O WILL		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	6dBi				
U-NII-2C	٧	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	1W (30dBm)	6dBi				
U-NII-3	٧	Other	1 Watt(30dBm)	Not required	Not required	6dBi				
U-IVII-O		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required				
		Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required				
U-NII-4		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.

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^{2.} For the 10 log B, B is the 26 dB emission bandwidth.