

TEST REPORT

Report No.: BCTC2403968900-4E

Applicant: D2G Group LLC

Product Name: Next Generation 2 Digital PEDLED Graphite

Test Model: DD021NLG

Tested Date: 2024-03-25 to 2024-03-29

Issued Date: 2024-04-18

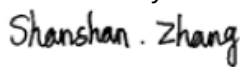
Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2ASCB-DD021NLG

Product Name: Next Generation 2 Digital PEDLED Graphite
Trademark: N/A
Model/Type Reference: DD021NLG
PDC01
Prepared For: D2G Group LLC
Address: 81 Commerce Drive, Fall River, Massachusetts 02720, United States
Manufacturer: GUANGZHOU YOUGUANG OPTOELECTRONICS CO., LTD.
Address: No. 75, Pacific Ind. Zone, Xingtang Town, Zengcheng, Guangzhou, China
Prepared By: Shenzhen BCTC Testing Co., Ltd.
Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road,
Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date: 2024-03-25
Sample Tested Date: 2024-03-25 to 2024-03-29
Issue Date: 2024-04-18
Report No.: BCTC2403968900-4E
FCC Part15 15.407
Test Standards: ANSI C63.10-2013
KDB 662911 D01 v02r01
KDB 789033 D02 v02r01
Test Results: PASS
Remark: This is WIFI-5GHz band radio test report.

Tested by:



Shanshan. Zhang / Project Handler

Approved by:



Zero Zhou/Reviewer

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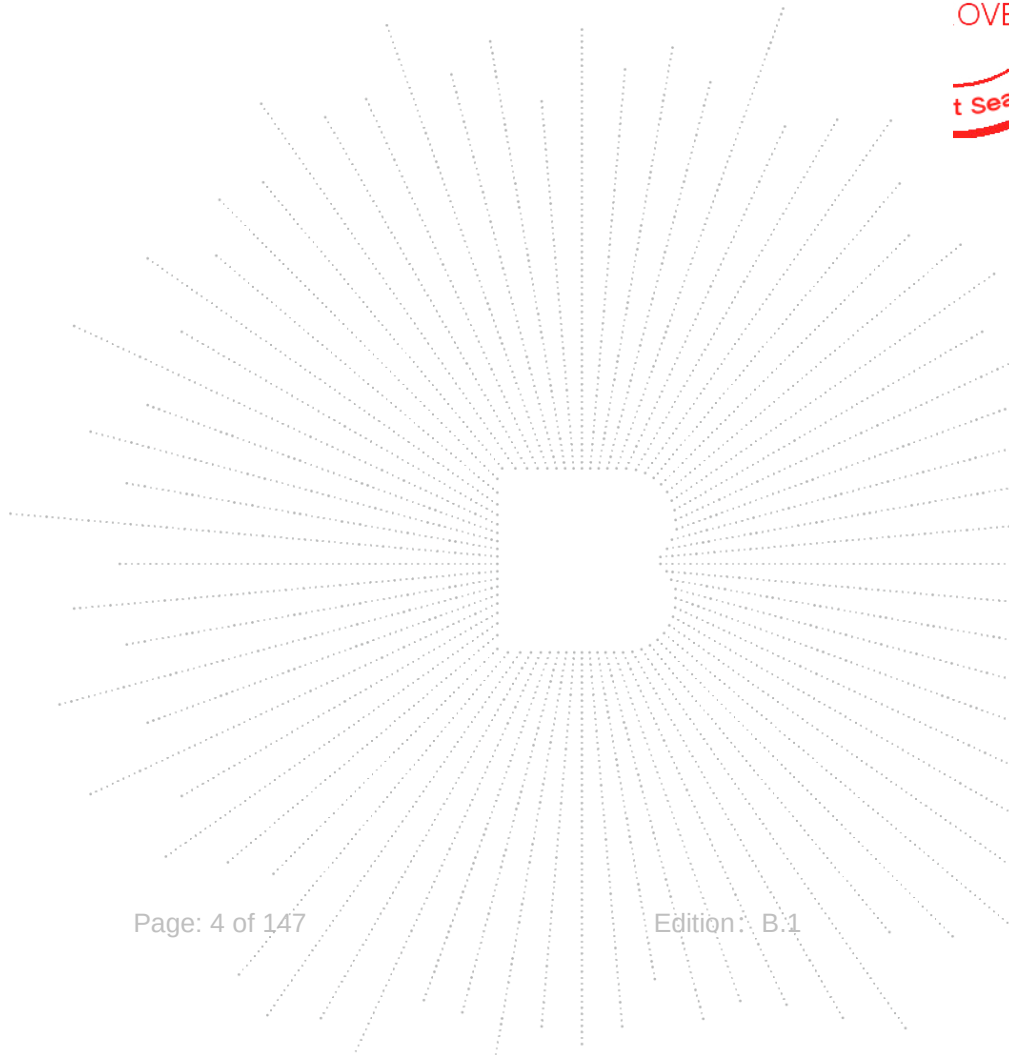
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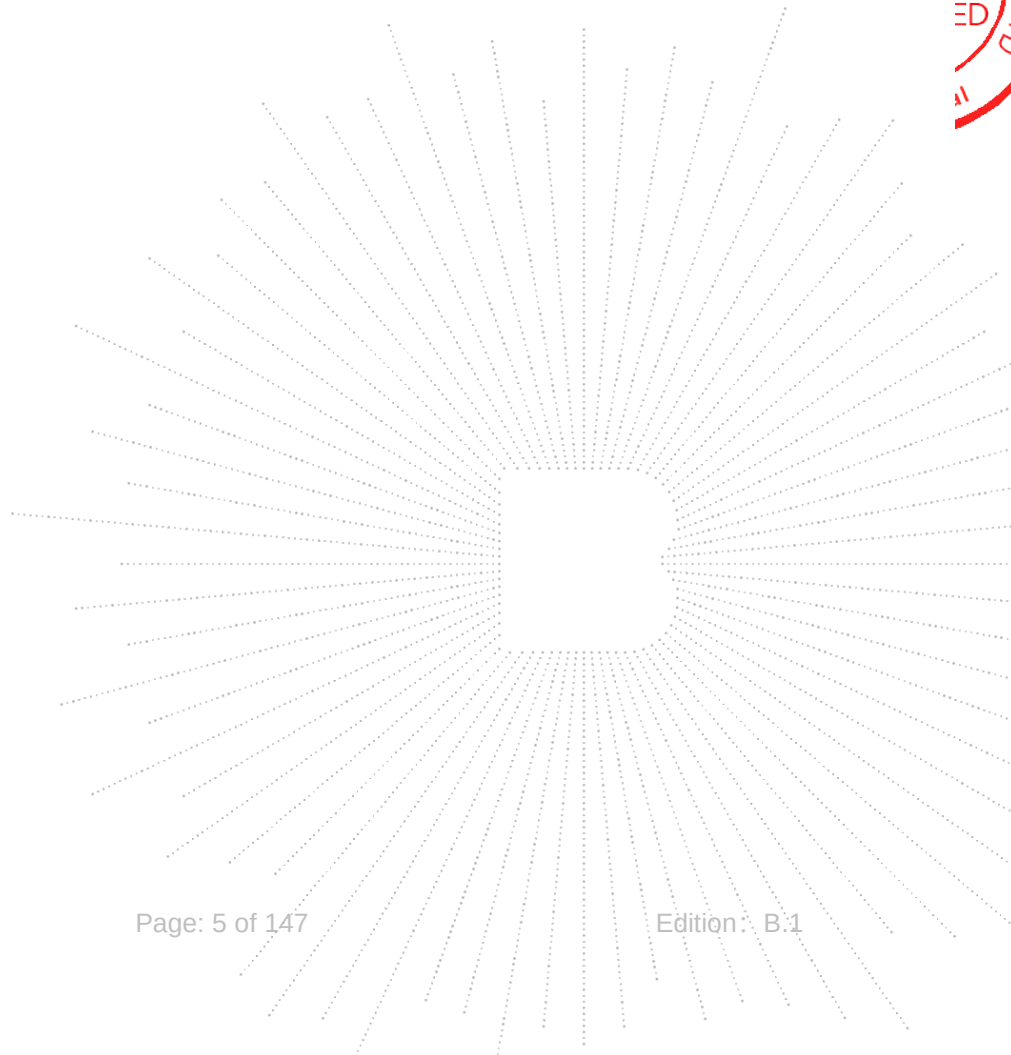
(Note: N/A Means Not Applicable)

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1. Version

Report No.	Issue Date	Description	Approved
BCTC2403968900-4E	2024-04-18	Original	Valid



2. Test Summary

The Product has been tested according to the following specifications:

1	Test Parameter	Clause No.	Results
1	Spurious Radiated Emissions	15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(8)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 (a)(12) 15.1049	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 (a)(1) 15.407 (a)(3)	PASS
6	Band Edge	2.1051, 15.407(b)(1) 15.407(b)(4)	PASS
7	Power Spectral Density	15.407 (a)(1) 15.407 (a)(3)	PASS
8	Spurious Emissions at Antenna Terminals	2.1051, 15.407(b)	PASS
9	Antenna Requirement	15.203	PASS

Note: The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure.

CO., LTD.

3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(9KHz-30MHz)	U=3.7dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission (150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59℃

4. Product Information And Test Setup

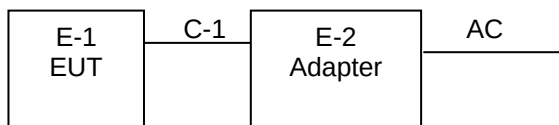
4.1 Product Information

Model/Type reference:	DD021NLG PDC01
Model differences:	All the model are the same circuit and RF module, except model names and appearance of the color.
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported:	802.11a/n/ac/ax(20MHz channel bandwidth) 802.11n/ac/ax(40MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n(HT20)/ac/ax20; 5190-5230MHz for 802.11n(HT40)/ac/ax40; 5745-5825 MHz for 802.11a/n(HT20)/ac/ax20; 5755-5795 MHz for 802.11a/n(HT40)/ac/ax40;
Data Rate:	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40): MCS0-MCS15; 802.11ac(VHT20): MCS0-MCS8 802.11ac(VHT40): MCS0-MCS9 802.11ax (HE 20/HE 40): MCS0~MCS11
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac OFDMA with BPSK / BPSK_DCM /QPSK /QPSK_DCM /QAM16 /QAM16_DCM /QAM64 /QAM256 /QAM1024 for 802.11ax
Number Of Channel:	4 channels for 802.11a/n/ac20/ax20 in the 5180-5240MHz band ; 2 channels for 802.11 n/ac40/ax40 in the 5190-5230MHz band ; 5 channels for 802.11a/n/ac20/ax20 in the 5745-5825MHz band ; 2 channels for 802.11 n/ac40/ax40 in the 5755-5795MHz band ;
Antenna installation:	Internal antenna
Antenna Gain:	5.1G: 3.1 dBi 5.8G: 3.08 dBi
Ratings:	AC 110-240V, 50/60Hz
Remark:	The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information.

4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission and Radiated Spurious Emission:



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Next Generation 2 Digital PEDLED Graphite	N/A	DD021NLG	PDC01	EUT
E-2	ADAPTER	Hoco.	N18	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.3M	DC cable unshielded

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

Frequency and Channel list for 802.11a/n /ac/ax (5180-5240MHz):

802.11a/n/ac/ax(20MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220	40	5200	48	5240

802.11n/ac/ax(40MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230	-	-	-	-

Frequency and Channel list for 802.11a/n /ac/ax (5745-5825MHz):

802.11a/n/ac/ax(20MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

802.11n/ac/ax(40MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-	-	-

4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11a / n/ ac/ax 20 CH36/ CH40/ CH 48 802.11a /n/ ac/ax 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac/ax40 CH38/ CH 46 802.11n/ ac/ax40 CH 151 / CH 159
Mode 3	Link Mode

Note: The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	SecureCRT		
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

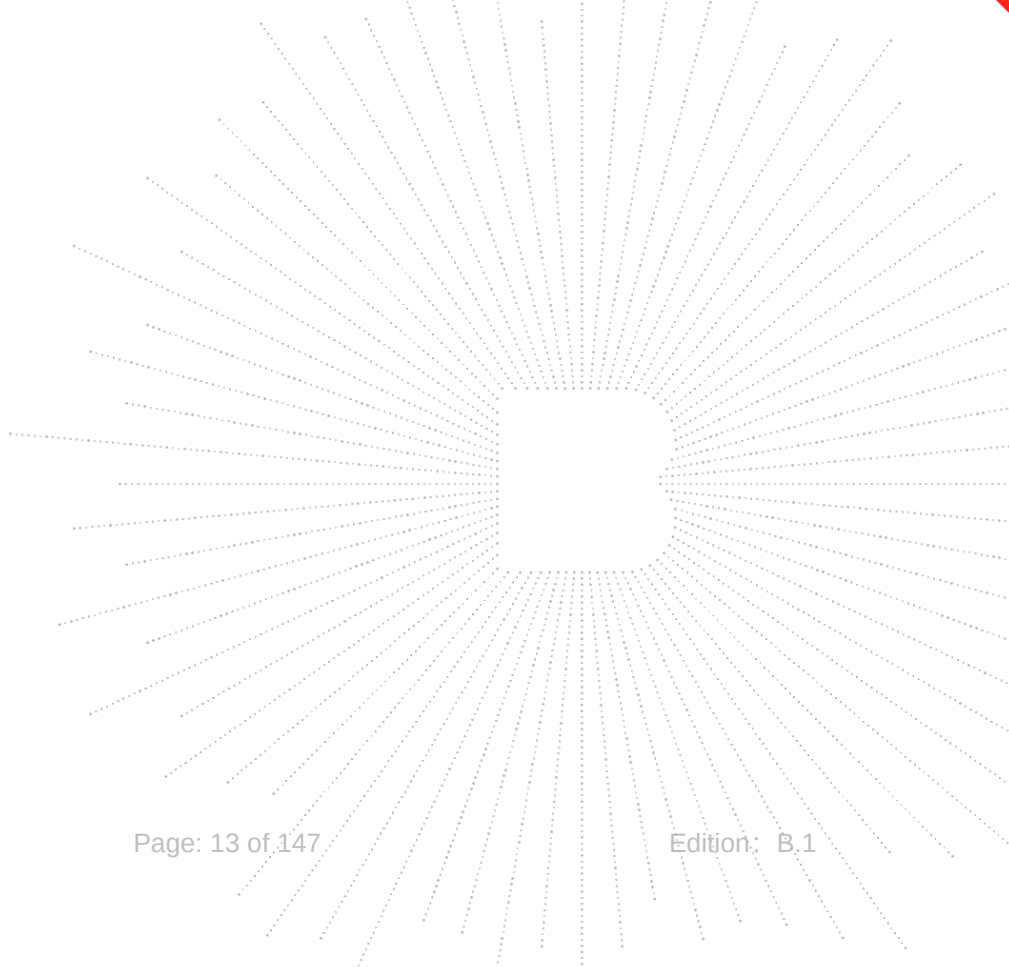
5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	Sept. 22, 2023	Sept. 21, 2024

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419	\	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A	\	May 15, 2023	May 14, 2024
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Radio frequency control box	MAIWEI	MW100-RFC B	\	\	\
Software	MAIWEI	MTS 8310	\	\	\

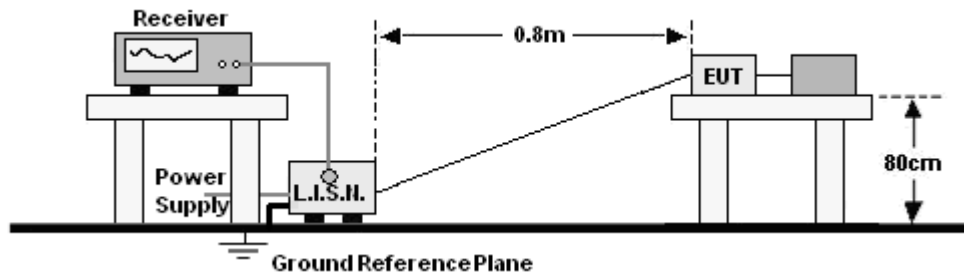
Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 15, 2023	May 14, 2024
Horn Antenn(18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

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6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

Frequency (MHz)	Limit (dBuV)	
	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes:
1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

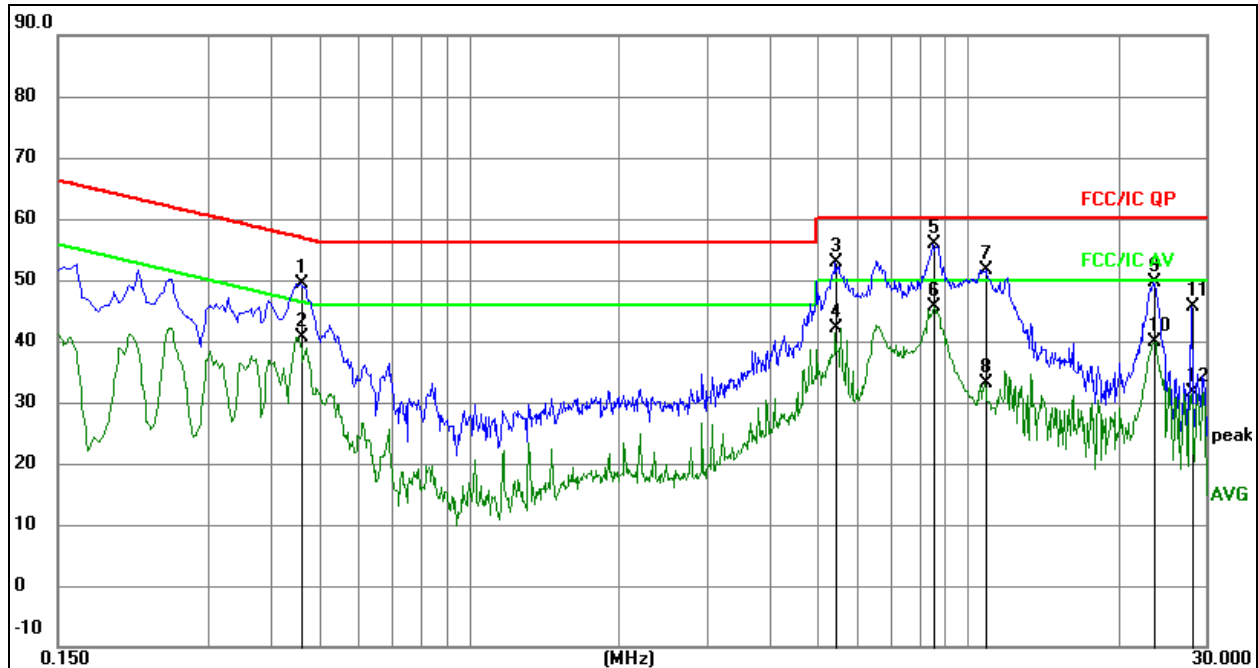
6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.

6.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 3	Polarization :	L

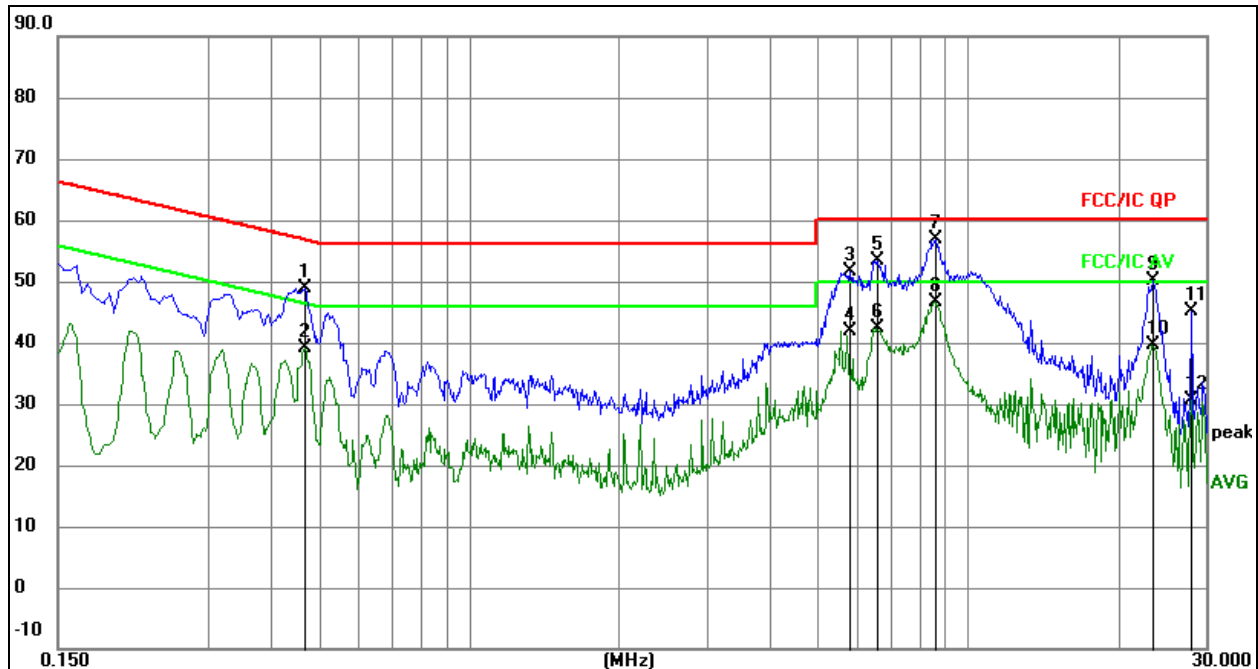


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.4605	29.44	19.84	49.28	56.68	-7.40	QP
2		0.4605	20.78	19.84	40.62	46.68	-6.06	AVG
3		5.4330	32.60	20.33	52.93	60.00	-7.07	QP
4		5.4330	21.70	20.33	42.03	50.00	-7.97	AVG
5	*	8.5155	35.97	19.92	55.89	60.00	-4.11	QP
6		8.5155	25.80	19.92	45.72	50.00	-4.28	AVG
7		10.8600	31.72	19.88	51.60	60.00	-8.40	QP
8		10.8600	13.24	19.88	33.12	50.00	-16.88	AVG
9		23.6355	29.66	19.99	49.65	60.00	-10.35	QP
10		23.6355	19.94	19.99	39.93	50.00	-10.07	AVG
11		28.1085	25.74	19.99	45.73	60.00	-14.27	QP
12		28.1085	11.62	19.99	31.61	50.00	-18.39	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 3	Polarization:	N



Remark:

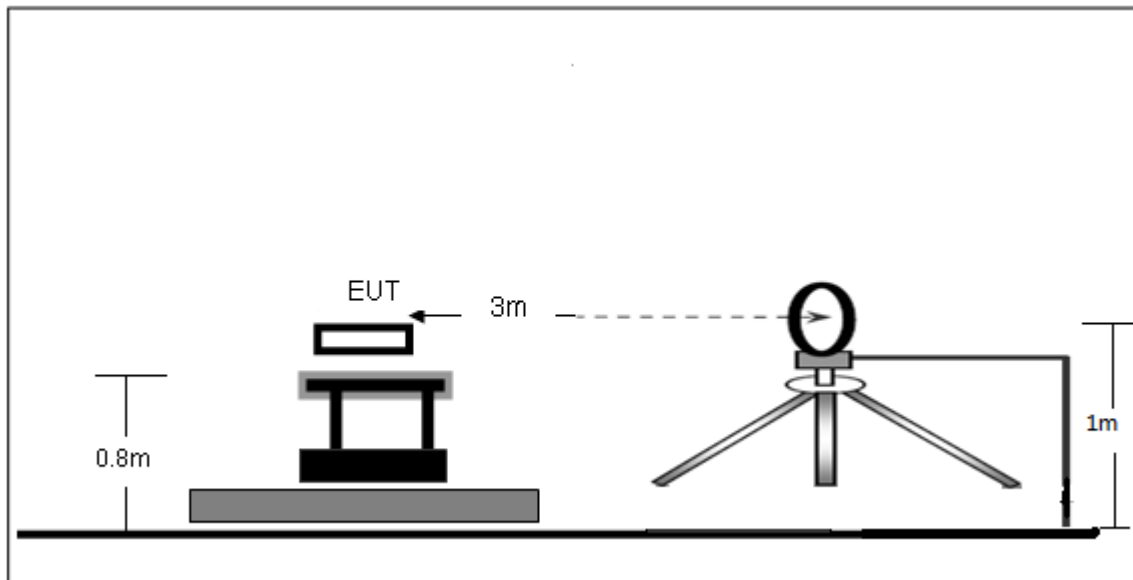
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.4686	28.99	19.84	48.83	56.54	-7.71	QP
2		0.4686	19.30	19.84	39.14	46.54	-7.40	AVG
3		5.8049	31.45	20.24	51.69	60.00	-8.31	QP
4		5.8049	21.68	20.24	41.92	50.00	-8.08	AVG
5		6.5921	33.31	20.06	53.37	60.00	-6.63	QP
6		6.5921	22.25	20.06	42.31	50.00	-7.69	AVG
7	*	8.5916	37.04	19.92	56.96	60.00	-3.04	QP
8		8.5916	26.69	19.92	46.61	50.00	-3.39	AVG
9		23.5111	30.20	19.99	50.19	60.00	-9.81	QP
10		23.5111	19.66	19.99	39.65	50.00	-10.35	AVG
11		28.0032	25.13	19.99	45.12	60.00	-14.88	QP
12		28.0032	10.52	19.99	30.51	50.00	-19.49	AVG

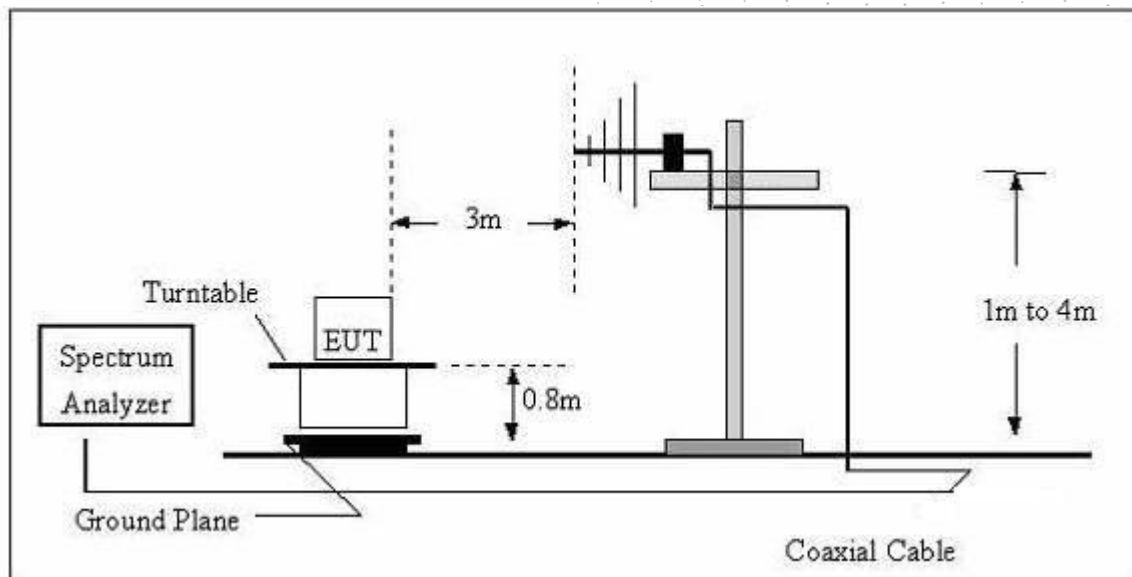
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

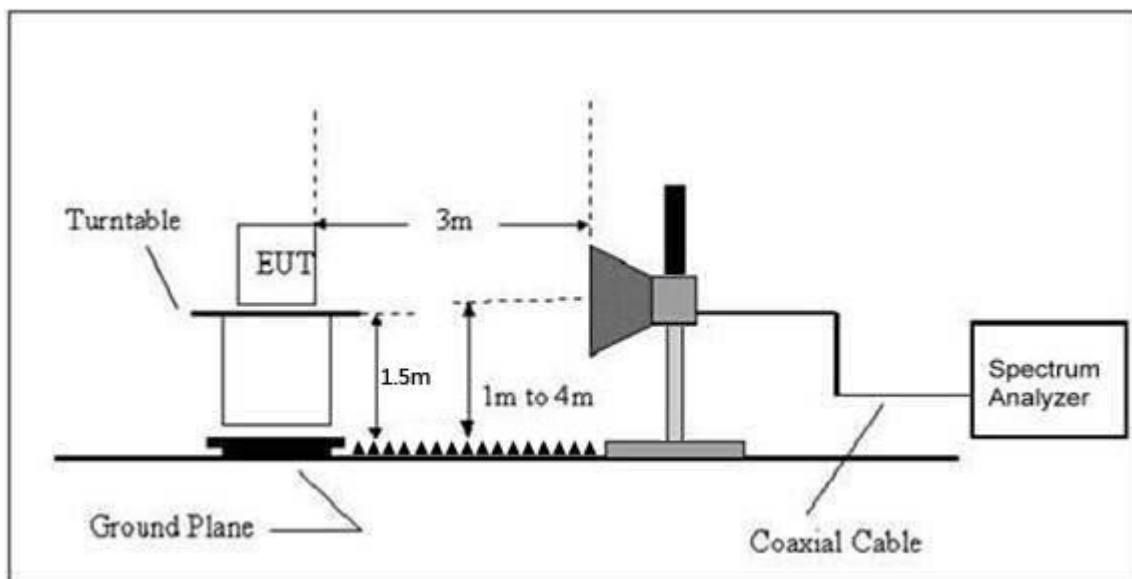
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency (MHz)	Field Strength uV/m	Distance (m)	Field Strength Limit at 3m Distance	
			uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (at 3M)	
	Peak	Average
Above 1000	74	54

Notes:

- (1)The limit for radiated test was performed according to FCC PART 15C.
- (2)The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

7.3 Test procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205.

It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW} [kHz])$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

7.5 Test Result

Below 30MHz

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 3		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

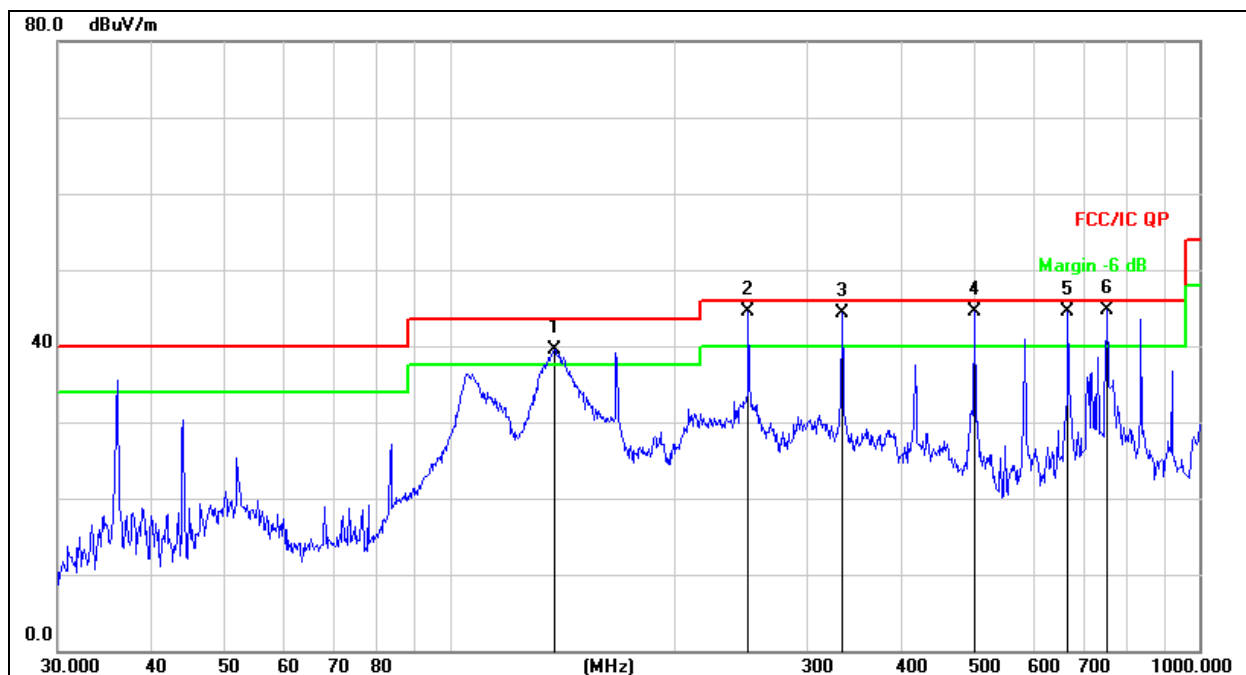
Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuV) + distance extrapolation factor.

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 3	Polarization :	Horizontal

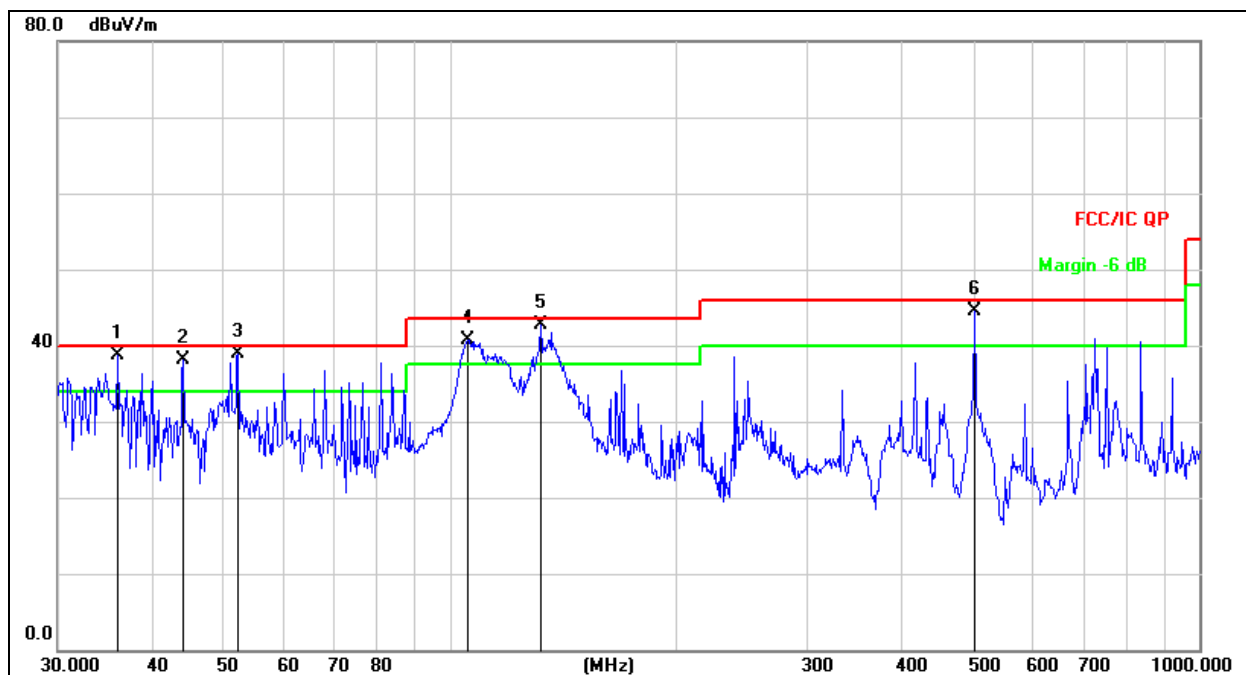


Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- Measurement = Reading Level + Correct Factor
- Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	!	137.9028	58.15	-18.58	39.57	43.50	-3.93	QP
2	!	250.3009	58.86	-14.28	44.58	46.00	-1.42	QP
3	!	333.6865	56.38	-12.05	44.33	46.00	-1.67	QP
4	!	501.1788	53.09	-8.65	44.44	46.00	-1.56	QP
5	!	668.1422	50.59	-6.00	44.59	46.00	-1.41	QP
6	*	752.7432	49.67	-4.96	44.71	46.00	-1.29	QP

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 3	Polarization:	Vertical



Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	!	36.1272	54.24	-15.47	38.77	40.00	-1.23	QP
2	!	44.1200	52.53	-14.38	38.15	40.00	-1.85	QP
3	!	52.2079	53.07	-14.20	38.87	40.00	-1.13	QP
4	!	105.6414	57.10	-16.32	40.78	43.50	-2.72	QP
5	*	132.2204	60.85	-18.19	42.66	43.50	-0.84	QP
6	!	501.1788	53.14	-8.65	44.49	46.00	-1.51	QP

Test Mode:	TX(5.1G) - 802.11a
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Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G							
V	4434.169	71.76	-20.73	51.03	68.2	-17.17	PK
V	4434.169	59.41	-20.73	38.68	54	-15.32	AV
V	10360.075	60.40	-9.36	51.04	68.2	-17.16	PK
V	10360.075	49.75	-9.36	40.39	54	-13.61	AV
V	15540.169	64.87	-7.84	57.03	74	-16.97	PK
V	15540.169	49.36	-7.84	41.52	54	-12.48	AV
H	4434.044	74.44	-20.73	53.71	68.2	-14.49	PK
H	4434.044	59.50	-20.73	38.77	54	-15.23	AV
H	10360.108	64.17	-9.36	54.81	68.2	-13.39	PK
H	10360.108	49.85	-9.36	40.49	54	-13.51	AV
H	15540.127	60.01	-7.84	52.17	74	-21.83	PK
H	15540.127	49.69	-7.84	41.85	54	-12.15	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.071	72.07	-20.42	51.66	74	-22.34	PK
V	4592.071	59.31	-20.42	38.90	54	-15.10	AV
V	10400.177	60.49	-9.30	51.19	68.2	-17.01	PK
V	10400.177	49.76	-9.30	40.46	54	-13.54	AV
V	15600.037	61.69	-7.82	53.87	74	-20.13	PK
V	15600.037	49.97	-7.82	42.15	54	-11.85	AV
H	4592.131	73.96	-20.42	53.55	74	-20.45	PK
H	4592.131	59.58	-20.42	39.17	54	-14.83	AV
H	10400.170	63.53	-9.30	54.23	68.2	-13.97	PK
H	10400.170	49.57	-9.30	40.27	54	-13.73	AV
H	15600.132	64.75	-7.82	56.93	74	-17.07	PK
H	15600.132	49.21	-7.82	41.39	54	-12.61	AV
High Channel (5240 MHz)-Above 1G							
V	4739.170	72.33	-20.12	52.21	74	-21.79	PK
V	4739.170	59.51	-20.12	39.39	54	-14.61	AV
V	10480.078	61.94	-9.18	52.76	68.2	-15.44	PK
V	10480.078	49.67	-9.18	40.49	54	-13.51	AV
V	15720.125	60.23	-7.78	52.45	74	-21.55	PK
V	15720.125	49.80	-7.78	42.02	54	-11.98	AV
H	4739.020	70.65	-20.12	50.53	74	-23.47	PK
H	4739.020	59.29	-20.12	39.17	54	-14.83	AV
H	10480.001	64.43	-9.18	55.25	68.2	-12.95	PK
H	10480.001	49.96	-9.18	40.78	54	-13.22	AV
H	15720.145	64.43	-7.78	56.65	74	-17.35	PK
H	15720.145	49.00	-7.78	41.22	54	-12.78	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11n-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
V	4434.050	72.03	-20.73	51.30	68.2	-16.90	PK
V	4434.050	59.05	-20.73	38.32	54	-15.68	AV
V	10360.084	62.02	-9.36	52.66	68.2	-15.54	PK
V	10360.084	49.43	-9.36	40.07	54	-13.93	AV
V	15540.103	60.98	-7.84	53.14	74	-20.86	PK
V	15540.103	49.41	-7.84	41.57	54	-12.43	AV
H	4434.158	72.58	-20.73	51.85	68.2	-16.35	PK
H	4434.158	59.29	-20.73	38.56	54	-15.44	AV
H	10360.039	60.41	-9.36	51.05	68.2	-17.15	PK
H	10360.039	49.21	-9.36	39.85	54	-14.15	AV
H	15540.015	62.91	-7.84	55.07	74	-18.93	PK
H	15540.015	49.92	-7.84	42.08	54	-11.92	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.131	72.45	-20.42	52.03	74	-21.97	PK
V	4592.131	59.61	-20.42	39.19	54	-14.81	AV
V	10400.122	64.32	-9.30	55.02	68.2	-13.18	PK
V	10400.122	49.33	-9.30	40.03	54	-13.97	AV
V	15600.171	63.45	-7.82	55.63	74	-18.37	PK
V	15600.171	49.34	-7.82	41.52	54	-12.48	AV
H	4592.183	72.15	-20.42	51.73	74	-22.27	PK
H	4592.183	59.12	-20.42	38.71	54	-15.29	AV
H	10400.112	61.85	-9.30	52.55	68.2	-15.65	PK
H	10400.112	49.23	-9.30	39.93	54	-14.07	AV
H	15600.130	64.16	-7.82	56.34	74	-17.66	PK
H	15600.130	49.55	-7.82	41.73	54	-12.27	AV
High Channel (5240 MHz)-Above 1G							
V	4739.023	73.25	-20.12	53.13	74	-20.87	PK
V	4739.023	59.82	-20.12	39.69	54	-14.31	AV
V	10480.121	61.14	-9.18	51.96	68.2	-16.24	PK
V	10480.121	49.52	-9.18	40.34	54	-13.66	AV
V	15720.097	64.81	-7.78	57.03	74	-16.97	PK
V	15720.097	49.68	-7.78	41.90	54	-12.10	AV
H	4739.155	71.03	-20.12	50.90	74	-23.10	PK
H	4739.155	59.63	-20.12	39.51	54	-14.49	AV
H	10480.064	61.82	-9.18	52.64	68.2	-15.56	PK
H	10480.064	49.82	-9.18	40.64	54	-13.36	AV
H	15720.068	61.46	-7.78	53.68	74	-20.32	PK
H	15720.068	49.64	-7.78	41.86	54	-12.14	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11n-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
V	4434.046	74.01	-20.73	53.28	68.2	-14.92	PK
V	4434.046	59.91	-20.73	39.18	54	-14.82	AV
V	10380.035	60.58	-9.33	51.25	68.2	-16.95	PK
V	10380.035	49.44	-9.33	40.11	54	-13.89	AV
V	15570.093	61.25	-7.83	53.42	74	-20.58	PK
V	15570.093	49.45	-7.83	41.62	54	-12.38	AV
H	4434.073	70.51	-20.73	49.78	74	-24.22	PK
H	4434.073	59.75	-20.73	39.02	54	-14.98	AV
H	10380.142	61.26	-9.33	51.93	68.2	-16.27	PK
H	10380.142	49.54	-9.33	40.21	54	-13.79	AV
H	15570.178	62.06	-7.83	54.23	74	-19.77	PK
H	15570.178	49.42	-7.83	41.59	54	-12.41	AV
High Channel (5230 MHz)-Above 1G							
V	4739.192	70.33	-20.12	50.20	68.2	-18.00	PK
V	4739.192	59.82	-20.12	39.70	54	-14.30	AV
V	10460.122	64.21	-9.21	55.00	68.2	-13.20	PK
V	10460.122	49.78	-9.21	40.57	54	-13.43	AV
V	15690.073	61.27	-7.79	53.48	74	-20.52	PK
V	15690.073	49.78	-7.79	41.99	54	-12.01	AV
H	4739.022	72.81	-20.12	52.69	68.2	-15.51	PK
H	4739.022	59.07	-20.12	38.95	54	-15.05	AV
H	10460.089	64.74	-9.21	55.53	68.2	-12.67	PK
H	10460.089	49.38	-9.21	40.17	54	-13.83	AV
H	15690.065	62.90	-7.79	55.11	74	-18.89	PK
H	15690.065	49.83	-7.79	42.04	54	-11.96	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ac-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
V	4434.075	71.71	-20.73	50.98	68.2	-17.22	PK
V	4434.075	59.20	-20.73	38.47	54	-15.53	AV
V	10360.029	63.01	-9.36	53.65	68.2	-14.55	PK
V	10360.029	49.59	-9.36	40.23	54	-13.77	AV
V	15540.149	63.45	-7.84	55.61	74	-18.39	PK
V	15540.149	49.02	-7.84	41.18	54	-12.82	AV
H	4434.112	73.83	-20.73	53.10	68.2	-15.10	PK
H	4434.112	59.27	-20.73	38.54	54	-15.46	AV
H	10360.127	64.05	-9.36	54.69	68.2	-13.51	PK
H	10360.127	49.85	-9.36	40.49	54	-13.51	AV
H	15540.093	64.58	-7.84	56.74	74	-17.26	PK
H	15540.093	49.59	-7.84	41.75	54	-12.25	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.127	71.02	-20.42	50.61	74	-23.39	PK
V	4592.127	59.19	-20.42	38.78	54	-15.22	AV
V	10400.081	61.42	-9.30	52.12	68.2	-16.08	PK
V	10400.081	49.44	-9.30	40.14	54	-13.86	AV
V	15600.157	60.69	-7.82	52.87	74	-21.13	PK
V	15600.157	49.81	-7.82	41.99	54	-12.01	AV
H	4592.185	72.19	-20.42	51.77	74	-22.23	PK
H	4592.185	59.79	-20.42	39.38	54	-14.62	AV
H	10400.027	63.71	-9.30	54.41	68.2	-13.79	PK
H	10400.027	49.29	-9.30	39.99	54	-14.01	AV
H	15600.136	60.89	-7.82	53.07	74	-20.93	PK
H	15600.136	49.61	-7.82	41.79	54	-12.21	AV
High Channel (5240 MHz)-Above 1G							
V	4739.083	74.25	-20.12	54.13	74	-19.87	PK
V	4739.083	59.73	-20.12	39.61	54	-14.39	AV
V	10480.080	63.96	-9.18	54.78	68.2	-13.42	PK
V	10480.080	49.15	-9.18	39.97	54	-14.03	AV
V	15720.185	63.35	-7.78	55.57	74	-18.43	PK
V	15720.185	49.26	-7.78	41.48	54	-12.52	AV
H	4739.093	71.17	-20.12	51.05	74	-22.95	PK
H	4739.093	59.90	-20.12	39.77	54	-14.23	AV
H	10480.136	64.28	-9.18	55.10	68.2	-13.10	PK
H	10480.136	49.04	-9.18	39.86	54	-14.14	AV
H	15720.143	60.66	-7.78	52.88	74	-21.12	PK
H	15720.143	49.87	-7.78	42.09	54	-11.91	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ac-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
V	4434.139	71.77	-20.73	51.03	68.2	-17.17	PK
V	4434.139	59.16	-20.73	38.43	54	-15.57	AV
V	10380.135	63.27	-9.33	53.94	68.2	-14.26	PK
V	10380.135	49.86	-9.33	40.53	54	-13.47	AV
V	15570.061	61.58	-7.83	53.75	74	-20.25	PK
V	15570.061	49.29	-7.83	41.46	54	-12.54	AV
H	4434.065	70.18	-20.73	49.45	74	-24.55	PK
H	4434.065	59.41	-20.73	38.68	54	-15.32	AV
H	10380.169	61.78	-9.33	52.45	68.2	-15.75	PK
H	10380.169	49.30	-9.33	39.97	54	-14.03	AV
H	15570.004	64.24	-7.83	56.41	74	-17.59	PK
H	15570.004	49.07	-7.83	41.24	54	-12.76	AV
High Channel (5230 MHz)-Above 1G							
V	4739.124	74.49	-20.12	54.36	68.2	-13.84	PK
V	4739.124	59.02	-20.12	38.90	54	-15.10	AV
V	10460.033	60.16	-9.21	50.95	68.2	-17.25	PK
V	10460.033	49.66	-9.21	40.45	54	-13.55	AV
V	15690.057	63.97	-7.79	56.18	74	-17.82	PK
V	15690.057	49.21	-7.79	41.42	54	-12.58	AV
H	4739.076	74.52	-20.12	54.39	68.2	-13.81	PK
H	4739.076	59.66	-20.12	39.54	54	-14.46	AV
H	10460.023	64.04	-9.21	54.83	68.2	-13.37	PK
H	10460.023	49.74	-9.21	40.53	54	-13.47	AV
H	15690.080	60.83	-7.79	53.04	74	-20.96	PK
H	15690.080	49.74	-7.79	41.95	54	-12.05	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ax-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G							
V	4434.124	71.27	-20.73	50.54	68.2	-17.66	PK
V	4434.124	59.70	-20.73	38.97	54	-15.03	AV
V	10360.046	60.19	-9.36	50.83	68.2	-17.37	PK
V	10360.046	49.62	-9.36	40.26	54	-13.74	AV
V	15540.124	64.19	-7.84	56.35	74	-17.65	PK
V	15540.124	49.55	-7.84	41.71	54	-12.29	AV
H	4434.191	73.61	-20.73	52.88	68.2	-15.32	PK
H	4434.191	59.72	-20.73	38.99	54	-15.01	AV
H	10360.135	62.14	-9.36	52.78	68.2	-15.42	PK
H	10360.135	49.63	-9.36	40.27	54	-13.73	AV
H	15540.097	62.90	-7.84	55.06	74	-18.94	PK
H	15540.097	49.17	-7.84	41.33	54	-12.67	AV
Middle Channel (5200 MHz)-Above 1G							
V	4592.046	72.08	-20.42	51.67	74	-22.33	PK
V	4592.046	59.93	-20.42	39.51	54	-14.49	AV
V	10400.145	60.81	-9.30	51.51	68.2	-16.69	PK
V	10400.145	49.92	-9.30	40.62	54	-13.38	AV
V	15600.024	61.53	-7.82	53.71	74	-20.29	PK
V	15600.024	49.33	-7.82	41.51	54	-12.49	AV
H	4592.043	73.69	-20.42	53.28	74	-20.72	PK
H	4592.043	59.60	-20.42	39.19	54	-14.81	AV
H	10400.148	60.04	-9.30	50.74	68.2	-17.46	PK
H	10400.148	49.23	-9.30	39.93	54	-14.07	AV
H	15600.165	61.08	-7.82	53.26	74	-20.74	PK
H	15600.165	49.76	-7.82	41.94	54	-12.06	AV
High Channel (5240 MHz)-Above 1G							
V	4739.066	71.33	-20.12	51.21	74	-22.79	PK
V	4739.066	59.51	-20.12	39.38	54	-14.62	AV
V	10480.182	63.85	-9.18	54.67	68.2	-13.53	PK
V	10480.182	49.81	-9.18	40.63	54	-13.37	AV
V	15720.148	64.20	-7.78	56.42	74	-17.58	PK
V	15720.148	49.56	-7.78	41.78	54	-12.22	AV
H	4739.130	73.20	-20.12	53.08	74	-20.92	PK
H	4739.130	59.82	-20.12	39.70	54	-14.30	AV
H	10480.012	64.69	-9.18	55.51	68.2	-12.69	PK
H	10480.012	49.39	-9.18	40.21	54	-13.79	AV
H	15720.171	61.20	-7.78	53.42	74	-20.58	PK
H	15720.171	49.40	-7.78	41.62	54	-12.38	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ax-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5190 MHz)-Above 1G							
V	4434.125	70.48	-20.73	49.75	68.2	-18.45	PK
V	4434.125	59.29	-20.73	38.56	54	-15.44	AV
V	10380.177	60.74	-9.33	51.41	68.2	-16.79	PK
V	10380.177	49.70	-9.33	40.37	54	-13.63	AV
V	15570.128	64.68	-7.83	56.85	74	-17.15	PK
V	15570.128	49.37	-7.83	41.54	54	-12.46	AV
H	4434.047	70.02	-20.73	49.28	74	-24.72	PK
H	4434.047	59.93	-20.73	39.20	54	-14.80	AV
H	10380.128	60.52	-9.33	51.19	68.2	-17.01	PK
H	10380.128	49.91	-9.33	40.58	54	-13.42	AV
H	15570.024	60.25	-7.83	52.42	74	-21.58	PK
H	15570.024	49.97	-7.83	42.14	54	-11.86	AV
High Channel (5230 MHz)-Above 1G							
V	4739.015	71.47	-20.12	51.34	68.2	-16.86	PK
V	4739.015	59.05	-20.12	38.93	54	-15.07	AV
V	10460.174	60.70	-9.21	51.49	68.2	-16.71	PK
V	10460.174	49.86	-9.21	40.65	54	-13.35	AV
V	15690.067	60.85	-7.79	53.06	74	-20.94	PK
V	15690.067	49.12	-7.79	41.33	54	-12.67	AV
H	4739.127	71.60	-20.12	51.48	68.2	-16.72	PK
H	4739.127	59.18	-20.12	39.05	54	-14.95	AV
H	10460.018	62.25	-9.21	53.04	68.2	-15.16	PK
H	10460.018	49.16	-9.21	39.95	54	-14.05	AV
H	15690.112	61.40	-7.79	53.61	74	-20.39	PK
H	15690.112	49.18	-7.79	41.39	54	-12.61	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.8G) - 802.11a
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
V	4679.104	71.17	-20.24	50.93	74	-23.07	PK
V	4679.104	59.08	-20.24	38.83	54	-15.17	AV
V	11490.146	61.71	-8.79	52.92	68.2	-15.28	PK
V	11490.146	49.77	-8.79	40.98	54	-13.02	AV
V	17235.134	58.04	-3.18	54.86	68.2	-13.34	PK
V	17235.134	44.15	-3.18	40.97	54	-13.03	AV
H	4679.018	71.91	-20.73	51.18	74	-22.82	PK
H	4679.018	59.41	-20.73	38.68	54	-15.32	AV
H	11490.142	63.19	-8.79	54.40	68.2	-13.80	PK
H	11490.142	49.78	-8.79	40.99	54	-13.01	AV
H	17235.090	58.55	-3.18	55.37	68.2	-12.83	PK
H	17235.090	44.80	-3.18	41.62	54	-12.38	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.139	72.23	-20.42	51.81	74	-22.19	PK
V	4592.139	59.21	-20.42	38.79	54	-15.21	AV
V	11570.096	62.22	-8.86	53.36	68.2	-14.84	PK
V	11570.096	49.22	-8.86	40.36	54	-13.64	AV
V	17355.054	57.30	-2.52	54.78	68.2	-13.42	PK
V	17355.054	44.44	-2.52	41.92	54	-12.08	AV
H	4592.028	73.99	-20.42	53.57	74	-20.43	PK
H	4592.028	59.28	-20.42	38.87	54	-15.13	AV
H	11570.198	61.97	-8.86	53.11	68.2	-15.09	PK
H	11570.198	49.93	-8.86	41.07	54	-12.93	AV
H	17355.043	55.51	-2.52	52.99	68.2	-15.21	PK
H	17355.043	44.72	-2.52	42.20	54	-11.80	AV
High Channel (5825 MHz)-Above 1G							
V	6039.178	71.39	-18.93	52.46	68.2	-15.74	PK
V	6039.178	59.29	-18.93	40.36	54	-13.64	AV
V	11650.124	64.22	-8.92	55.30	74	-18.70	PK
V	11650.124	49.51	-8.92	40.59	54	-13.41	AV
V	17475.133	59.09	-1.86	57.23	68.2	-10.97	PK
V	17475.133	44.61	-1.86	42.75	54	-11.25	AV
H	6039.172	71.60	-18.93	52.67	68.2	-15.53	PK
H	6039.172	59.79	-18.93	40.86	54	-13.14	AV
H	11650.079	62.77	-8.92	53.85	74	-20.15	PK
H	11650.079	49.97	-8.92	41.05	54	-12.95	AV
H	17475.181	58.09	-1.86	56.23	68.2	-11.97	PK
H	17475.181	44.89	-1.86	43.03	54	-10.97	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode: TX(5.8G) - 802.11n-HT20

Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G							
V	4679.122	74.65	-20.24	54.40	74	-19.60	PK
V	4679.122	59.08	-20.24	38.84	54	-15.16	AV
V	11490.162	63.15	-8.79	54.36	68.2	-13.84	PK
V	11490.162	49.49	-8.79	40.70	54	-13.30	AV
V	17235.141	57.80	-3.18	54.62	68.2	-13.58	PK
V	17235.141	44.52	-3.18	41.34	54	-12.66	AV
H	4679.015	74.65	-20.24	54.40	74	-19.60	PK
H	4679.015	59.74	-20.24	39.50	54	-14.50	AV
H	11490.085	61.35	-8.79	52.56	68.2	-15.64	PK
H	11490.085	49.97	-8.79	41.18	54	-12.82	AV
H	17235.072	56.04	-3.18	52.86	68.2	-15.34	PK
H	17235.072	44.95	-3.18	41.77	54	-12.23	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.054	72.24	-20.42	51.83	74	-22.17	PK
V	4592.054	59.38	-20.42	38.96	54	-15.04	AV
V	11570.128	61.95	-8.86	53.09	68.2	-15.11	PK
V	11570.128	49.20	-8.86	40.34	54	-13.66	AV
V	17355.149	56.70	-2.52	54.18	68.2	-14.02	PK
V	17355.149	44.38	-2.52	41.86	54	-12.14	AV
H	4592.121	70.20	-20.42	49.78	74	-24.22	PK
H	4592.121	59.72	-20.42	39.31	54	-14.69	AV
H	11570.027	63.55	-8.86	54.69	68.2	-13.51	PK
H	11570.027	49.50	-8.86	40.64	54	-13.36	AV
H	17355.091	56.75	-2.52	54.23	68.2	-13.97	PK
H	17355.091	44.07	-2.52	41.55	54	-12.45	AV
High Channel (5825 MHz)-Above 1G							
V	6039.178	74.80	-18.93	55.87	68.2	-12.33	PK
V	6039.178	59.88	-18.93	40.95	54	-13.05	AV
V	11650.048	61.66	-8.92	52.74	74	-21.26	PK
V	11650.048	49.97	-8.92	41.05	54	-12.95	AV
V	17475.097	55.21	-1.86	53.35	68.2	-14.85	PK
V	17475.097	44.34	-1.86	42.48	54	-11.52	AV
H	6039.174	73.93	-18.93	55.00	68.2	-13.20	PK
H	6039.174	59.83	-18.93	40.89	54	-13.11	AV
H	11650.053	64.31	-8.92	55.39	74	-18.61	PK
H	11650.053	49.53	-8.92	40.61	54	-13.39	AV
H	17475.126	58.84	-1.86	56.98	68.2	-11.22	PK
H	17475.126	44.99	-1.86	43.13	54	-10.87	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.8G) - 802.11n-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
V	4679.061	73.87	-20.24	53.63	74	-20.37	PK
V	4679.061	59.81	-20.24	39.57	54	-14.43	AV
V	11510.123	64.75	-8.81	55.94	74	-18.06	PK
V	11510.123	49.40	-8.81	40.59	54	-13.41	AV
V	17265.124	58.17	-3.01	55.16	68.2	-13.04	PK
V	17265.124	44.05	-3.01	41.04	54	-12.96	AV
H	4679.084	71.44	-20.24	51.20	74	-22.80	PK
H	4679.084	59.70	-20.24	39.46	54	-14.54	AV
H	11510.134	64.56	-8.81	55.75	74	-18.25	PK
H	11510.134	49.96	-8.81	41.15	54	-12.85	AV
H	17265.173	56.68	-3.01	53.67	68.2	-14.53	PK
H	17265.173	44.95	-3.01	41.94	54	-12.06	AV
High Channel (5795 MHz)-Above 1G							
V	6039.103	73.57	-18.93	54.63	68.2	-13.57	PK
V	6039.103	59.69	-18.93	40.76	54	-13.24	AV
V	11590.163	60.44	-8.87	51.57	74	-22.43	PK
V	11590.163	49.58	-8.87	40.71	54	-13.29	AV
V	17385.066	55.42	-2.35	53.07	68.2	-15.13	PK
V	17385.066	44.75	-2.35	42.40	54	-11.60	AV
H	6039.193	72.22	-18.93	53.29	68.2	-14.91	PK
H	6039.193	59.03	-18.93	40.10	54	-13.90	AV
H	11590.094	64.68	-8.87	55.81	74	-18.19	PK
H	11590.094	49.31	-8.87	40.44	54	-13.56	AV
H	17385.194	57.81	-2.35	55.46	68.2	-12.74	PK
H	17385.194	45.00	-2.35	42.65	54	-11.35	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.8G) - 802.11ac-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
V	4679.050	74.73	-20.24	54.49	74	-19.51	PK
V	4679.050	59.16	-20.24	38.92	54	-15.08	AV
V	11490.174	60.17	-8.79	51.38	68.2	-16.82	PK
V	11490.174	49.59	-8.79	40.80	54	-13.20	AV
V	17235.003	58.47	-3.18	55.29	68.2	-12.91	PK
V	17235.003	44.04	-3.18	40.86	54	-13.14	AV
H	4679.013	71.70	-20.24	51.46	74	-22.54	PK
H	4679.013	59.05	-20.24	38.80	54	-15.20	AV
H	11490.008	63.77	-8.79	54.98	68.2	-13.22	PK
H	11490.008	49.37	-8.79	40.58	54	-13.42	AV
H	17235.146	55.16	-3.18	51.98	68.2	-16.22	PK
H	17235.146	44.33	-3.18	41.15	54	-12.85	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.011	74.13	-20.42	53.71	74	-20.29	PK
V	4592.011	59.52	-20.42	39.10	54	-14.90	AV
V	11570.111	60.57	-8.86	51.71	68.2	-16.49	PK
V	11570.111	49.81	-8.86	40.95	54	-13.05	AV
V	17355.128	55.70	-2.52	53.18	68.2	-15.02	PK
V	17355.128	44.26	-2.52	41.74	54	-12.26	AV
H	4592.120	74.70	-20.42	54.29	74	-19.71	PK
H	4592.120	59.76	-20.42	39.34	54	-14.66	AV
H	11570.036	63.78	-8.86	54.92	68.2	-13.28	PK
H	11570.036	49.46	-8.86	40.60	54	-13.40	AV
H	17355.133	59.10	-2.52	56.58	68.2	-11.62	PK
H	17355.133	44.00	-2.52	41.48	54	-12.52	AV
High Channel (5825 MHz)-Above 1G							
V	6039.179	72.08	-18.93	53.15	68.2	-15.05	PK
V	6039.179	59.46	-18.93	40.53	54	-13.47	AV
V	11650.162	64.99	-8.92	56.07	74	-17.93	PK
V	11650.162	49.67	-8.92	40.75	54	-13.25	AV
V	17475.177	59.08	-1.86	57.22	68.2	-10.98	PK
V	17475.177	44.67	-1.86	42.81	54	-11.19	AV
H	6039.030	73.97	-18.93	55.04	68.2	-13.16	PK
H	6039.030	59.73	-18.93	40.80	54	-13.20	AV
H	11650.085	62.57	-8.92	53.65	74	-20.35	PK
H	11650.085	49.31	-8.92	40.39	54	-13.61	AV
H	17475.082	58.71	-1.86	56.85	68.2	-11.35	PK
H	17475.082	44.90	-1.86	43.04	54	-10.96	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.8G) - 802.11ac-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
V	4679.123	70.09	-20.24	49.85	74	-24.15	PK
V	4679.123	59.88	-20.24	39.63	54	-14.37	AV
V	11510.079	64.73	-8.81	55.92	74	-18.08	PK
V	11510.079	49.85	-8.81	41.04	54	-12.96	AV
V	17265.140	58.84	-3.01	55.83	68.2	-12.37	PK
V	17265.140	44.44	-3.01	41.43	54	-12.57	AV
H	4679.033	74.34	-20.24	54.10	74	-19.90	PK
H	4679.033	59.30	-20.24	39.06	54	-14.94	AV
H	11510.030	64.94	-8.81	56.13	74	-17.87	PK
H	11510.030	49.85	-8.81	41.04	54	-12.96	AV
H	17265.093	57.02	-3.01	54.01	68.2	-14.19	PK
H	17265.093	44.83	-3.01	41.82	54	-12.18	AV
High Channel (5795 MHz)-Above 1G							
V	6039.022	74.30	-18.93	55.37	68.2	-12.83	PK
V	6039.022	59.48	-18.93	40.55	54	-13.45	AV
V	11590.178	64.90	-8.87	56.03	74	-17.97	PK
V	11590.178	49.22	-8.87	40.35	54	-13.65	AV
V	17385.189	56.49	-2.35	54.14	68.2	-14.06	PK
V	17385.189	44.84	-2.35	42.49	54	-11.51	AV
H	6039.026	71.23	-18.93	52.30	68.2	-15.90	PK
H	6039.026	59.45	-18.93	40.52	54	-13.48	AV
H	11590.086	60.77	-8.87	51.90	74	-22.10	PK
H	11590.086	49.17	-8.87	40.30	54	-13.70	AV
H	17385.165	59.00	-2.35	56.65	68.2	-11.55	PK
H	17385.165	44.57	-2.35	42.22	54	-11.78	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.8G) - 802.11ax-HT20
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G							
V	4679.039	72.25	-20.24	52.01	74	-21.99	PK
V	4679.039	59.04	-20.24	38.80	54	-15.20	AV
V	11490.196	61.02	-8.79	52.23	68.2	-15.97	PK
V	11490.196	49.45	-8.79	40.66	54	-13.34	AV
V	17235.007	58.74	-3.18	55.56	68.2	-12.64	PK
V	17235.007	44.89	-3.18	41.71	54	-12.29	AV
H	4679.023	73.23	-20.24	52.98	74	-21.02	PK
H	4679.023	59.47	-20.24	39.23	54	-14.77	AV
H	11490.100	61.00	-8.79	52.21	68.2	-15.99	PK
H	11490.100	49.22	-8.79	40.43	54	-13.57	AV
H	17235.025	57.62	-3.18	54.44	68.2	-13.76	PK
H	17235.025	44.56	-3.18	41.38	54	-12.62	AV
Middle Channel (5785 MHz)-Above 1G							
V	4592.037	70.84	-20.42	50.42	74	-23.58	PK
V	4592.037	59.71	-20.42	39.30	54	-14.70	AV
V	11570.142	64.85	-8.86	55.99	68.2	-12.21	PK
V	11570.142	49.61	-8.86	40.75	54	-13.25	AV
V	17355.069	57.35	-2.52	54.83	68.2	-13.37	PK
V	17355.069	44.19	-2.52	41.67	54	-12.33	AV
H	4592.009	73.86	-20.42	53.44	74	-20.56	PK
H	4592.009	59.88	-20.42	39.47	54	-14.53	AV
H	11570.113	63.25	-8.86	54.39	68.2	-13.81	PK
H	11570.113	49.99	-8.86	41.13	54	-12.87	AV
H	17355.161	58.09	-2.52	55.57	68.2	-12.63	PK
H	17355.161	44.85	-2.52	42.33	54	-11.67	AV
High Channel (5825 MHz)-Above 1G							
V	6039.028	70.74	-18.93	51.81	68.2	-16.39	PK
V	6039.028	59.55	-18.93	40.62	54	-13.38	AV
V	11650.101	61.97	-8.92	53.05	74	-20.95	PK
V	11650.101	49.41	-8.92	40.49	54	-13.51	AV
V	17475.106	59.35	-1.86	57.49	68.2	-10.71	PK
V	17475.106	44.18	-1.86	42.32	54	-11.68	AV
H	6039.165	71.36	-18.93	52.43	68.2	-15.77	PK
H	6039.165	59.04	-18.93	40.11	54	-13.89	AV
H	11650.153	61.43	-8.92	52.51	74	-21.49	PK
H	11650.153	49.10	-8.92	40.18	54	-13.82	AV
H	17475.041	56.77	-1.86	54.91	68.2	-13.29	PK
H	17475.041	44.83	-1.86	42.97	54	-11.03	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.8G) - 802.11ax-HT40
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Polar (H/V)	Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5755 MHz)-Above 1G							
V	4679.191	73.55	-20.24	53.31	74	-20.69	PK
V	4679.191	59.18	-20.24	38.93	54	-15.07	AV
V	11510.085	63.56	-8.81	54.75	74	-19.25	PK
V	11510.085	49.06	-8.81	40.25	54	-13.75	AV
V	17265.007	58.87	-3.01	55.86	68.2	-12.34	PK
V	17265.007	44.03	-3.01	41.02	54	-12.98	AV
H	4679.111	70.54	-20.24	50.30	74	-23.70	PK
H	4679.111	59.22	-20.24	38.98	54	-15.02	AV
H	11510.161	60.21	-8.81	51.40	74	-22.60	PK
H	11510.161	49.01	-8.81	40.20	54	-13.80	AV
H	17265.023	59.97	-3.01	56.96	68.2	-11.24	PK
H	17265.023	44.12	-3.01	41.11	54	-12.89	AV
High Channel (5795 MHz)-Above 1G							
V	6039.031	73.85	-18.93	54.91	68.2	-13.29	PK
V	6039.031	59.29	-18.93	40.36	54	-13.64	AV
V	11590.127	64.97	-8.87	56.10	74	-17.90	PK
V	11590.127	49.85	-8.87	40.98	54	-13.02	AV
V	17385.086	59.03	-2.35	56.68	68.2	-11.52	PK
V	17385.086	44.77	-2.35	42.42	54	-11.58	AV
H	6039.003	74.78	-18.93	55.85	68.2	-12.35	PK
H	6039.003	59.03	-18.93	40.10	54	-13.90	AV
H	11590.179	60.38	-8.87	51.51	74	-22.49	PK
H	11590.179	49.89	-8.87	41.02	54	-12.98	AV
H	17385.064	58.69	-2.35	56.34	68.2	-11.86	PK
H	17385.064	44.73	-2.35	42.38	54	-11.62	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

8. Power Spectral Density Test

8.1 Block Diagram Of Test Setup



8.2 Limit

For the band 5.15-5.25 GHz,

(i) For an outdoor Wifi Repeater operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor Wifi Repeater operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point Wifi Repeaters operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.3 Test procedure

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHz is available on nearly all spectrum analyzers.

8.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



8.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	(5180-5240MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	-3.25	11	Pass
NVNT	a	5200	-3.76	11	Pass
NVNT	a	5240	-2.97	11	Pass
NVNT	n20	5180	-5.90	11	Pass
NVNT	n20	5200	-5.95	11	Pass
NVNT	n20	5240	-6.08	11	Pass
NVNT	n40	5190	-9.88	11	Pass
NVNT	n40	5230	-10.18	11	Pass
NVNT	ac20	5180	-6.20	11	Pass
NVNT	ac20	5200	-5.96	11	Pass
NVNT	ac20	5240	-5.94	11	Pass
NVNT	ac40	5190	-9.72	11	Pass
NVNT	ac40	5230	-10.29	11	Pass
NVNT	ax20	5180	-6.30	11	Pass
NVNT	ax20	5200	-6.33	11	Pass
NVNT	ax20	5240	-6.50	11	Pass
NVNT	ax40	5190	-9.53	11	Pass
NVNT	ax40	5230	-10.22	11	Pass

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