

TEST REPORT

Report No.:	BCTC2208713361-1E				
Applicant:	Eyerising International Pty Ltd				
Product Name:	Eyerising Myopia Management Device				
Model/Type reference:	RS-200-1A				
Tested Date:	2022-07-26 to 2022-08-17				
Issued Date:	2022-08-17				
She	enzhen BCTC Testing Co., Ltd.				
No. : BCTC/RF-EMC-005	Page: 1 of 82				



FCC ID: 2A77X-RS2001A

Product Name:	Eyerising Myopia Management Device				
Trademark:	N/A				
Model/Type reference:	RS-200-1A				
Prepared For:	Eyerising International Pty Ltd				
Address:	Suite 2.05 9/11 Claremont St, South Yarra VIC 3141				
Manufacturer:	Eyerising International Pty Ltd				
Address:	Suite 2.05 9/11 Claremont St, South Yarra VIC 3141				
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:	2022-07-26				
Sample tested Date:	2022-07-26 to 2022-08-17				
Issue Date:	2022-08-17				
Report No.:	BCTC2208713361-1E				
Test Standards:	FCC Part15.247 ANSI C63.10-2013				
Test Results:	PASS				
Remark:	This is WIFI-2.4GHz band radio test report.				

Tested by:

ack

Jack Li/Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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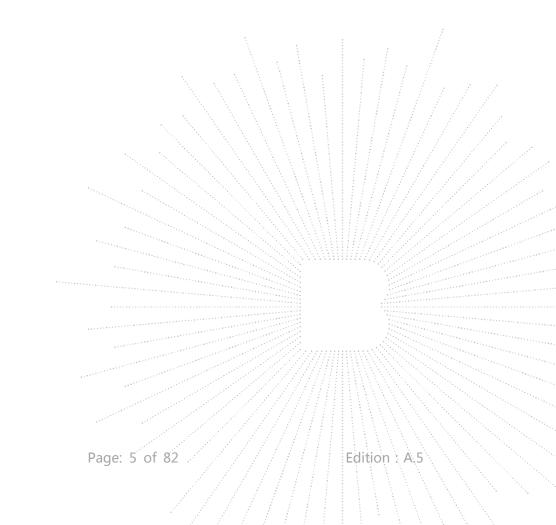
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1. Version

Report No.	port No. Issue Date Description		Approved	
BCTC2208713361-1E	2022-08-17	Original	Valid	



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2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Conducted Emission	15.207	PASS
2	6dB Bandwidth	15.247 (a)(2)	PASS
3	Peak Output Power	15.247 (b)	PASS
4	Radiated Spurious Emission	15.247 (d)	PASS
5	Power Spectral Density	15.247 (e)	PASS
6	Restricted Band of Operation	15.205	PASS
7	Band Edge (Out of Band Emissions)	15.247 (d)	PASS
8	Antenna Requirement	15.203	PASS

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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°C



4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	RS-200-1A
Model differences:	N/A
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	802.11b/g/n20MHz:2412~2462 MHz 802.11n40MHz:2422~2452 MHz
Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n Up to 75Mbps
Type of Modulation:	WIFI: OFDM/DSSS
Number Of Channel:	802.11b/g/n20MHz:11 CH 802.11n40MHz: 7 CH
Antenna installation:	Internal antenna
Antenna Gain:	4.39 dBi
Ratings:	DC 24V
Adapter:	MODEL:ADA360K240S001A INPUT:100-240V~50/60Hz 0.7A OUTPUT:DC 24V 1.5A MAX:36W

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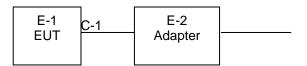
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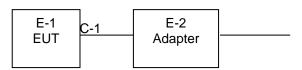
4.2 Test Setup Configuration

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

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Eyerising Myopia Management Device	N/A	RS-200-1A	N/A	EUT
E-2	Adapter	N/A	BCTC001	N/A	Auxiliary

ltem	Shielded Type	Ferrite Core	Length			Note	/	2
C-1	N/A	N/A	1.0M			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.

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4.4 Channel List

Channel List for 802.11b/g/n(20)									
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)				
01	2412	02	2417	03	2422				
04	2427	05	2432	06	2437				
07	2442	08	2447	09	2452				
10	2457	11	2462						

	Channel List for 802.11n(40)								
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)				
03	2422	04	2427	05	2432				
06	2437	07	2442	08	2447				
09	2452								

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.

For All Mode	Description	Modulation Type
Mode 1	CH 01	
Mode 2	CH 06	802.11b
Mode 3	CH 11	
Mode 4	CH 01	
Mode 5	CH 06	802.11g
Mode 6	CH 11	$(\land \land$
Mode 7	CH 01	\times \times \wedge
Mode 8	CH 06	802.11n20
Mode 9	CH 11	$\mathbb{N} \setminus \mathbb{N} \setminus \mathbb{N}$ is the set of $\mathbb{P} \setminus \mathbb{P} \setminus \mathbb{N}$.
Mode 10	CH 03	. N N N N N H H H H / / / /
Mode 11	CH 06	802.11n40
Mode 12	CH 09	NNNNN H <i>H7777</i>
Mode 13	Link mode (Conducted emis	sion and Radiated emission)

Notes:

1. The measurements are performed at the highest, middle, lowest available channels.

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

3. According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 11Mbps for 802.11b,6Mbps for 802.11g,13Mbps for 802.11n(H20), 54Mbps for 802.11n(H40)



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	
Frequency	2412 MHz	2437 MHz	2462 MHz
Parameters	DEF	DEF	DEF
Frequency	2422MHz	2437MHz	2452MHz
Parameters	DEF	DEF	DEF



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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 IC Registered No.: 23583

5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
LISN	R&S	ENV216	101375	May 24, 2022	May 23, 2023
Software	Frad	EZ-EMC	EMC-CON 3A1	١	١
Attenuator	\	10dB C-6GHz	1650	May 24, 2022	May 23, 2023

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419		May 24, 2022	May 23, 2023
Power Sensor (AV)	Keysight	E9300A		May 24, 2022	May 23, 2023
Signal Analyzer 20kHz-26.5G Hz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40	an a	May 24, 2022	May 23, 2023

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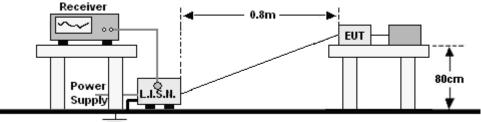


Radiated Emissions Test (966 Chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
Receiver	R&S	ESRP	101154	May 24, 2022	May 23, 2023
Amplifier	SKET	LAPA_01G18 G-45dB	١	May 24, 2022	May 23, 2023
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 06, 2022	Jun. 05, 2023
Horn Antenn (18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 06, 2022	Jun. 05, 2023
Amplifier (18GHz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 26, 2022	May 25, 2023
Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023
RF cables1 (9kHz-30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-000 8	May 26, 2022	May 25, 2023
RF cables2 (30MHz-1GHz)	Huber+Suhnar	30MHz-1GHz	1486150	May 26, 2022	May 25, 2023
RF cables3 (1GHz-40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	May 26, 2022	May 25, 2023
Power Metter	Keysight	E4419	Λ	May 26, 2022	May 25, 2023
Power Sensor (AV)	Keysight	E9300A		May 26, 2022	May 25, 2023
Signal Analyzer 20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 26, 2022	May 25, 2023
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40	алан алан алан алан алан алан алан алан	May 26, 2022	May 25, 2023
Software	Frad	EZ-EMC	FA-03A2 RE	\mathcal{F}	///X//.



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



Ground Reference Plane

6.2 Limit

	Limit (dBuV)
Frequency (MHz)	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:		

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

a. 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).

b. 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.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

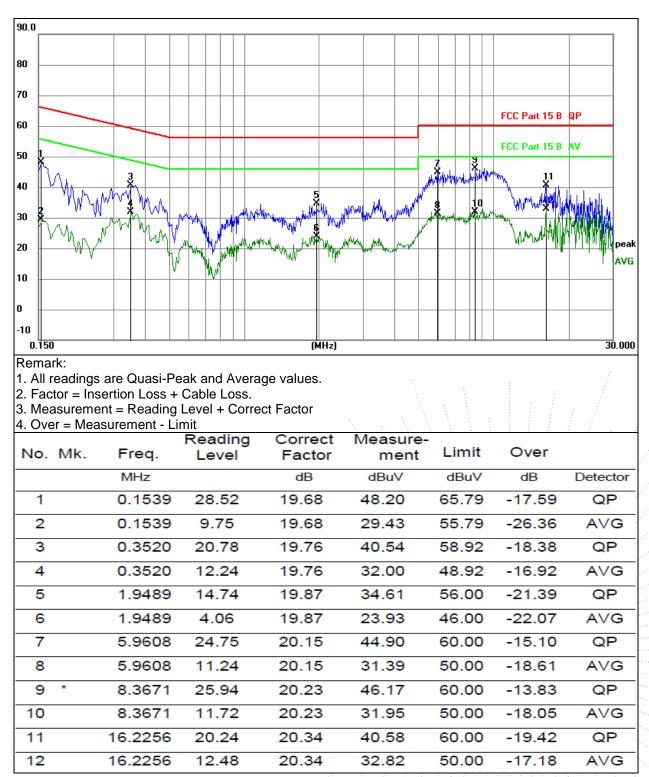
6.4 EUT operating Conditions

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.



6.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	AC120V/60Hz
Test Mode:	Mode 13	Polarization :	L

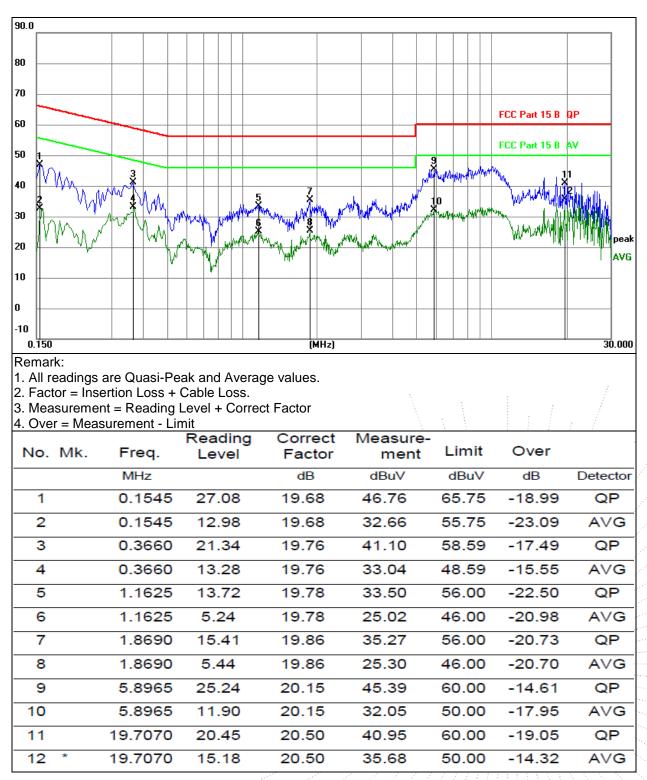


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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	AC120V/60Hz
Test Mode:	Mode 13	Polarization :	Ν



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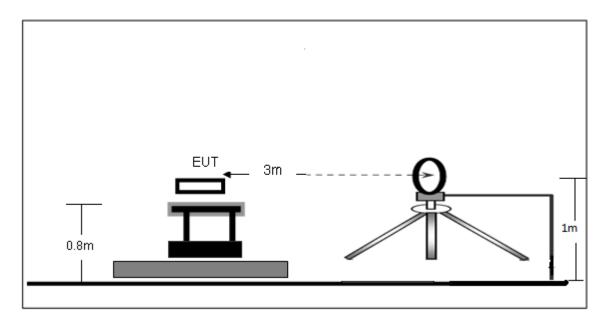
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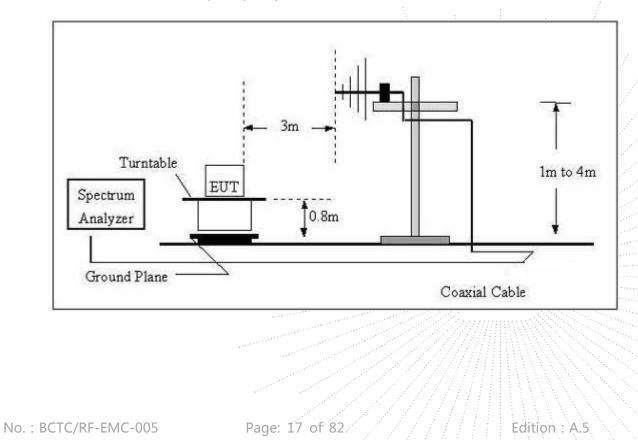
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

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

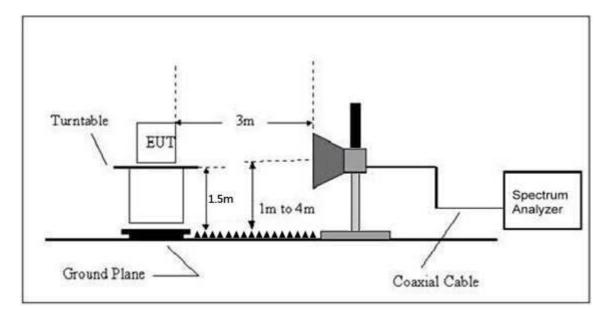


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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

Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Lin	nit (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).



Frequency Range Of Radiated Measurement

(a) For an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

7.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
9kHz~150kHz	RBW 200Hz for QP
150kHz~30MHz	RBW 9kHz for QP
30MHz~1000MHz	RBW 120kHz for QP

Spectrum Parameter	Setting
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middlest channel, the Highest channel. Note:

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

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.

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7.5 Test Result

Below 30MHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	AC120V/60Hz
Test Mode:	Mode 13	Polarization :	

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 (specific distance/test distance)(dB);

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

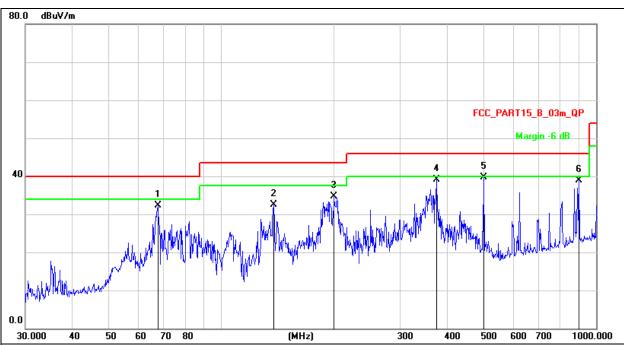
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Between 30MHz - 1GHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	AC120V/60Hz
Test Mode:	Mode 13	Polarization :	Horizontal



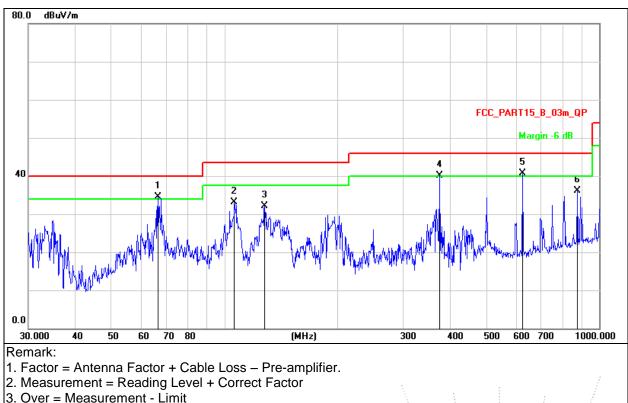
Remark:

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

3. Ove	r = Mea	surement - L	.imit					
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		67.6751	50.85	-18.59	32.26	40.00	-7.74	QP
2	1	37.9028	51.55	-19.10	32.45	43.50	-11.05	QP
3	1	99.9856	50.58	-15.95	34.63	43.50	-8.87	QP
4	3	75.9385	49.61	-10.49	39.12	46.00	-6.88	QP
5	* 5	01.1790	47.56	-7.81	39.75	46.00	-6.25	QP
6	g	00.1474	39.64	-0.81	38.83	46.00	-7.17	QP



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	AC120V/60Hz
Test Mode:	Mode 13	Polarization :	Vertical



J. Ove	I = IV	leasurement - L					: :	1
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	İ	66.4989	52.86	-18.30	34.56	40.00	-5.44	QP
2		106.3850	50.30	-17.13	33.17	43.50	-10.33	QP
3		128.1130	50.68	-18.49	32.19	43.50	-11.31	QP
4	İ	375.9385	50.67	-10.49	40.18	46.00	-5.82	QP
5	*	625.0780	45.78	-5.11	40.67	46.00	-5.33	QP
6		875.2470	37.47	-1.28	36.19	46.00	-9.81	QP



Between 1GHz – 25GHz

802.11b

Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
		Lo	ow channel:24	412MHz			
V	4824.00	54.57	-0.43	54.14	74.00	-19.86	PK
V	4824.00	46.56	-0.43	46.13	54.00	-7.87	AV
V	7236.00	44.71	8.31	53.02	74.00	-20.98	PK
V	7236.00	34.80	8.31	43.11	54.00	-10.89	AV
Н	4824.00	52.32	-0.43	51.89	74.00	-22.11	PK
Н	4824.00	43.16	-0.43	42.73	54.00	-11.27	AV
Н	7236.00	42.31	8.31	50.62	74.00	-23.38	PK
Н	7236.00	33.72	8.31	42.03	54.00	-11.97	AV
		Mic	dle channel:	2437MHz			
V	4874.00	52.36	-0.38	51.98	74.00	-22.02	PK
V	4874.00	44.86	-0.38	44.48	54.00	-9.52	AV
V	7311.00	42.56	8.83	51.39	74.00	-22.61	PK
V	7311.00	34.31	8.83	43.14	54.00	-10.86	AV
Н	4874.00	49.44	-0.38	49.06	74.00	-24.94	PK
Н	4874.00	39.61	-0.38	39.23	54.00	-14.77	AV
Н	7311.00	39.73	8.83	48.56	74.00	-25.44	PK
Н	7311.00	32.04	8.83	40.87	54.00	-13.13	AV
		Hi	gh channel:2	462MHz			
V	4924.00	54.31	-0.32	53.99	74.00	-20.01	PK
V	4924.00	44.52	-0.32	44.20	54.00	-9.80	AV
V	7386.00	47.46	9.35	56.81	74.00	-17.19	PK
V	7386.00	36.52	9.35	45.87	54.00	-8.13	AV
Н	4924.00	52.27	-0.32	51.95	74.00	-22.05	PK
Н	4924.00	42.60	-0.32	42.28	54.00	-11.72	AV
Н	7386.00	44.96	9.35	54.31	74.00	-19.69	PK
Н	7386.00	36.54	9.35	45.89	54.00	-8.11	AV

Remark:

1.Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level - Limit

2.If peak below the average limit, the average emission was no test.

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

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			802.11g	·			
Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
		Lo	ow channel:24	12MHz			
V	4824.00	52.28	-0.43	51.85	74.00	-22.15	PK
V	4824.00	41.98	-0.43	41.55	54.00	-12.45	AV
V	7236.00	42.80	8.31	51.11	74.00	-22.89	PK
V	7236.00	33.79	8.31	42.10	54.00	-11.90	AV
Н	4824.00	51.27	-0.43	50.84	74.00	-23.16	PK
Н	4824.00	41.47	-0.43	41.04	54.00	-12.96	AV
Н	7236.00	41.54	8.31	49.85	74.00	-24.15	PK
Н	7236.00	32.70	8.31	41.01	54.00	-12.99	AV
		Mic	dle channel:	2437MHz			
V	4874.00	49.97	-0.38	49.59	74.00	-24.41	PK
V	4874.00	41.60	-0.38	41.22	54.00	-12.78	AV
V	7311.00	40.04	8.83	48.87	74.00	-25.13	PK
V	7311.00	30.34	8.83	39.17	54.00	-14.83	AV
Н	4874.00	47.08	-0.38	46.70	74.00	-27.30	PK
Н	4874.00	36.67	-0.38	36.29	54.00	-17.71	AV
Н	7311.00	38.57	8.83	47.40	74.00	-26.60	PK
Н	7311.00	30.93	8.83	39.76	54.00	-14.24	AV
		Hi	gh channel:2 [,]	462MHz			
V	4924.00	51.71	-0.32	51.39	74.00	-22.61	PK
V	4924.00	41.30	-0.32	40.98	54.00	-13.02	AV
V	7386.00	43.35	9.35	52.70	74.00	-21.30	PK
V	7386.00	32.98	9.35	42.33	54.00	-11.67	AV
Н	4924.00	49.09	-0.32	48.77	74.00	-25.23	PK
Н	4924.00	39.28	-0.32	38.96	54.00	-15.04	AV
Н	7386.00	40.96	9.35	50.31	74.00	-23.69	PK
Н	7386.00	32.97	9.35	42.32	54.00	-11.68	AV

Remark:

1.Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Over= Emission Level - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible

value has no need to be reported.

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			802.11n2	0			
Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
		Lo	ow channel:24	412MHz			
V	4824.00	53.47	-0.43	53.04	74.00	-20.96	PK
V	4824.00	42.64	-0.43	42.21	54.00	-11.79	AV
V	7236.00	43.53	8.31	51.84	74.00	-22.16	PK
V	7236.00	34.36	8.31	42.67	54.00	-11.33	AV
Н	4824.00	49.80	-0.43	49.37	74.00	-24.63	PK
Н	4824.00	39.56	-0.43	39.13	54.00	-14.87	AV
Н	7236.00	41.59	8.31	49.90	74.00	-24.10	PK
Н	7236.00	32.89	8.31	41.20	54.00	-12.80	AV
	•	Mic	dle channel:	2437MHz	•	•	
V	4874.00	51.64	-0.38	51.26	74.00	-22.74	PK
V	4874.00	44.37	-0.38	43.99	54.00	-10.01	AV
V	7311.00	43.16	8.83	51.99	74.00	-22.01	PK
V	7311.00	34.55	8.83	43.38	54.00	-10.62	AV
Н	4874.00	46.82	-0.38	46.44	74.00	-27.56	PK
Н	4874.00	36.09	-0.38	35.71	54.00	-18.29	AV
Н	7311.00	41.75	8.83	50.58	74.00	-23.42	PK
Н	7311.00	33.71	8.83	42.54	54.00	-11.46	AV
		Hi	gh channel:2	462MHz			
V	4924.00	53.10	-0.32	52.78	74.00	-21.22	PK
V	4924.00	44.96	-0.32	44.64	54.00	-9.36	AV
V	7386.00	44.55	9.35	53.90	74.00	-20.10	PK
V	7386.00	35.43	9.35	44.78	54.00	-9.22	AV
Н	4924.00	50.51	-0.32	50.19	74.00	-23.81	PK
Н	4924.00	41.45	-0.32	41.13	54.00	-12.87	AV
Н	7386.00	42.60	9.35	51.95	74.00	-22.05	PK
Н	7386.00	34.58	9.35	43.93	54.00	-10.07	AV

Remark:

1.Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Over= Emission Level - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

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

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			802.11n4	0			
Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
		Lo	ow channel:24	422MHz			
V	4844.00	52.82	-0.43	52.39	74.00	-21.61	PK
V	4844.00	44.16	-0.43	43.73	54.00	-10.27	AV
V	7266.00	41.96	8.31	50.27	74.00	-23.73	PK
V	7266.00	31.03	8.31	39.34	54.00	-14.66	AV
Н	4844.00	49.01	-0.43	48.58	74.00	-25.42	PK
Н	4844.00	38.51	-0.43	38.08	54.00	-15.92	AV
Н	7266.00	39.73	8.31	48.04	74.00	-25.96	PK
Н	7266.00	31.14	8.31	39.45	54.00	-14.55	AV
		Mic	dle channel:	2437MHz	•		
V	4874.00	49.56	-0.38	49.18	74.00	-24.82	PK
V	4874.00	41.41	-0.38	41.03	54.00	-12.97	AV
V	7311.00	42.47	8.83	51.30	74.00	-22.70	PK
V	7311.00	34.28	8.83	43.11	54.00	-10.89	AV
Н	4874.00	45.79	-0.38	45.41	74.00	-28.59	PK
Н	4874.00	36.75	-0.38	36.37	54.00	-17.63	AV
Н	7311.00	41.29	8.83	50.12	74.00	-23.88	PK
Н	7311.00	33.40	8.83	42.23	54.00	-11.77	AV
		Hi	gh channel:2 [,]	452MHz			
V	4904.00	50.83	-0.32	50.51	74.00	-23.49	PK
V	4904.00	40.01	-0.32	39.69	54.00	-14.31	AV
V	7356.00	42.77	9.35	52.12	74.00	-21.88	PK
V	7356.00	32.59	9.35	41.94	54.00	-12.06	AV
Н	4904.00	48.73	-0.32	48.41	74.00	-25.59	PK
Н	4904.00	38.48	-0.32	38.16	54.00	-15.84	AV
Н	7356.00	39.84	9.35	49.19	74.00	-24.81	PK
Н	7356.00	32.66	9.35	42.01	54.00	-11.99	AV

Remark:

1.Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Over= Emission Level - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

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

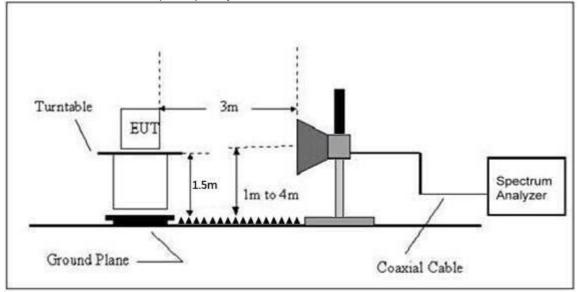
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8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

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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).

8.3 Test procedure

Receiver Parameter	Setting		
Attenuation	Auto		
Start Frequency	2300MHz		
Stop Frequency	2520		
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average		

Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the Highest channel. Note:

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

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

Test mode	Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor	Measure- ment (dBuV/m)	Limits (dBuV/m)		Result		
				(dB)	РК	РК	AV			
	Low Channel 2412MHz									
	Н	2390.00	52.37	-6.70	45.67	74.00	54.00	PASS		
	Н	2400.00	56.07	-6.71	49.36	74.00	54.00	PASS		
	V	2390.00	52.51	-6.70	45.81	74.00	54.00	PASS		
000 441	V	2400.00	52.60	-6.71	45.89	74.00	54.00	PASS		
802.11b		High Channel 2462MHz								
	Н	2483.50	52.85	-6.79	46.06	74.00	54.00	PASS		
	Н	2485.00	47.74	-6.81	40.93	74.00	54.00	PASS		
	V	2483.50	52.82	-6.79	46.03	74.00	54.00	PASS		
	V	2485.00	48.89	-6.81	42.08	74.00	54.00	PASS		
		Low Channel 2412MHz								
802.11g	Н	2390.00	53.81	-6.70	47.11	74.00	54.00	PASS		
	Н	2400.00	58.07	-6.71	51.36	74.00	54.00	PASS		
	V	2390.00	53.33	-6.70	46.63	74.00	54.00	PASS		
	V	2400.00	54.88	-6.71	48.17	74.00	54.00	PASS		
	High Channel 2462MHz									
	Н	2483.50	53.64	-6.79	46.85	74.00	54.00	PASS		
	Н	2485.00	49.63	-6.81	42.82	74.00	54.00	PASS		
	V	2483.50	52.18	-6.79	45.39	74.00	54.00	PASS		
	V	2485.00	47.96	-6.81	41.15	74.00	54.00	PASS		

Remark:

1. Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level - Limit

2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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Test mode	Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor	Measure- ment (dBuV/m)	Limits (dBuV/m)		Result	
				(dB)	РК	PK	AV		
	Low Channel 2412MHz								
	Н	2390.00	53.57	-6.70	46.87	74.00	54.00	PASS	
	Н	2400.00	57.67	-6.71	50.96	74.00	54.00	PASS	
	V	2390.00	53.47	-6.70	46.77	74.00	54.00	PASS	
	V	2400.00	54.53	-6.71	47.82	74.00	54.00	PASS	
802.11n20	High Channel 2462MHz								
	Н	2483.50	53.55	-6.79	46.76	74.00	54.00	PASS	
	Н	2500.00	50.11	-6.81	43.30	74.00	54.00	PASS	
	V	2483.50	51.89	-6.79	45.10	74.00	54.00	PASS	
	V	2500.00	47.25	-6.81	40.44	74.00	54.00	PASS	
	Low Channel 2422MHz								
802.11n40	Н	2390.00	52.70	-6.70	46.00	74.00	54.00	PASS	
	Н	2400.00	57.51	-6.71	50.80	74.00	54.00	PASS	
	V	2390.00	52.06	-6.70	45.36	74.00	54.00	PASS	
	V	2400.00	53.73	-6.71	47.02	74.00	54.00	PASS	
	High Channel 2452MHz								
	Н	2483.50	51.44	-6.79	44.65	74.00	54.00	PASS	
	Н	2500.00	48.70	-6.81	41.89	74.00	54.00	PASS	
	V	2483.50	50.15	-6.79	43.36	74.00	54.00	PASS	
	V	2500.00	45.82	-6.81	39.01	74.00	54.00	PASS	

Remark:

1. Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level - Limit

2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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9. Power Spectral Density Test

9.1 Block Diagram Of Test Setup



9.2 Limit

FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

Limits Of Radiated Emission Measurement (Above 1000MHz)

9.3 Test procedure

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to: 3 kHz
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.

10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

9.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing. Note: Power Spectral Density(dBm)=Reading+Cable Loss

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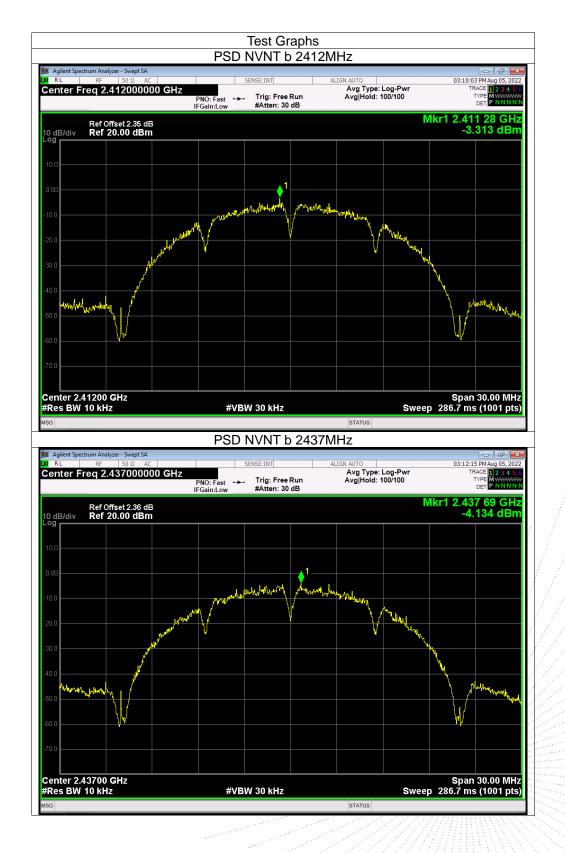
9.5 Test Result

Temperature: 26 °C		1	Relative Humidity:	54%		
Pressure:	,	101K	Pa	Test Voltage: AC120V/60Hz		
Test Mode	Freque	ncy	Power Spectral Density (dBm/10kHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	2412 M	Hz	-3.31	-8.54	8	PASS
TX b Mode	2437 M	Hz	-4.13	-9.36	8	PASS
	2462 M	Hz	-4.23	-9.46	8	PASS
	2412 MHz		-7.78	-13.01	8	PASS
TX g Mode	2437 M	Hz	-7.17	-12.40	8	PASS
	2462 M	Hz	-7.59	-12.82	8	PASS
TX n Mode(20M)	2412 MHz		-8.95	-14.18	8	PASS
	2437 MHz		-7.57	-12.80	8	PASS
	2462 MHz		-8.96	-14.19	8	PASS
TX n Mode(40M)	2422 MHz		-12.95	-18.18	8	PASS
	2437 M	Hz	-11.87	-17.10	8	PASS
	2452 M	Hz	-12.12	-17.35	8	PASS

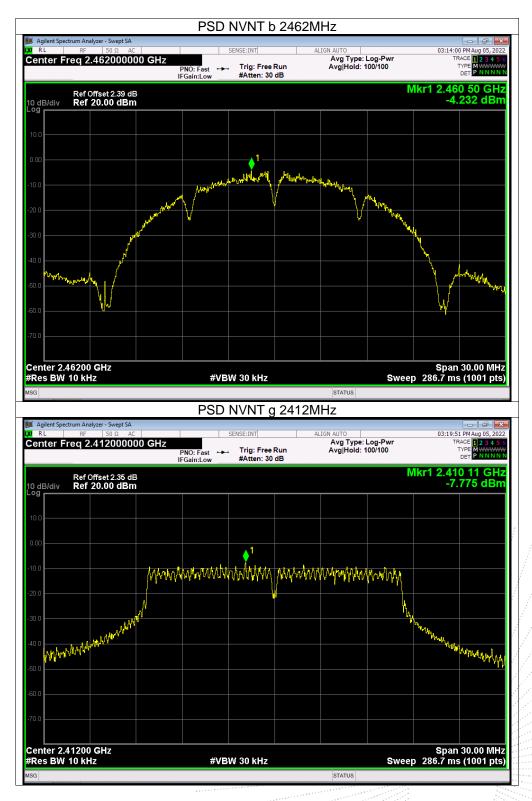
Note: Correction Factor = 10log(3KHz/RBW in measurement)



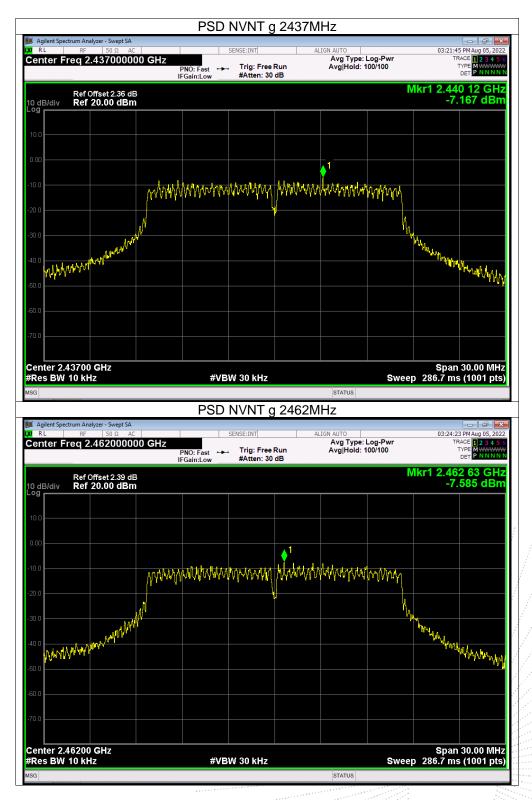




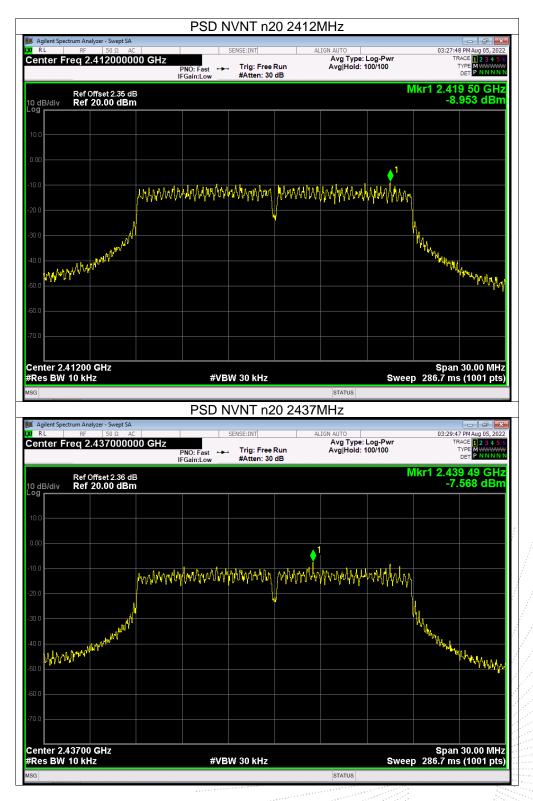




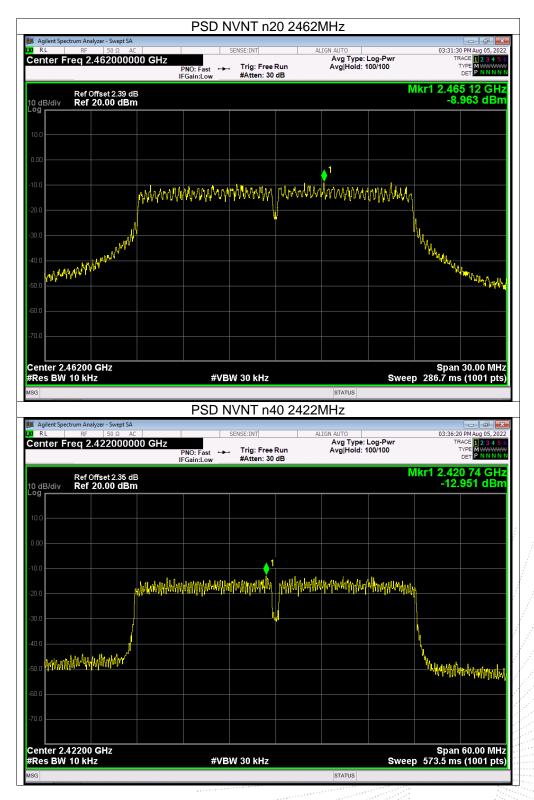














Agilent Spectru									
enter Fre	RF <u>50 Ω</u> A q 2.4370000			SENSE:INT		ALIGN AUTO Avg Type:	Log-Pwr	03:39: T	24 PM Aug 05, 20 RACE 1 2 3 4 5 TYPE M DET P NNN
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RL		c 100 GHz	PNO: Fast ↔	SENSE:INT	Run	MHz		03:41: T	51 PM Aug 05, 20
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RL enter Fre	RF 50 Ω A	с 1 00 GHz 18	PNO: Fast ↔	SENSE:INT	Run	MHZ	100/100	۰ Mkr1 2.44	51 PMAug 05, 20 RACE 1 2 3 4 5 TYPE WWWW DET P NNNN 5 46 GH
enter Fre	RF 50 Ω A q 2.4520000	с 1 00 GHz 18	PNO: Fast ↔	SENSE:INT	Run	MHZ	100/100	۰ Mkr1 2.44	51 PMAug 05, 20 RACE 1 2 3 4 5 TYPE WWWW DET P NNNN 5 46 GH
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enter Fre	RF 50 Ω A q 2.4520000	с IOO GHz B m	PNO: Fast → FGain:Low	SENSE:INT Trig: Free #Atten: 30	Run) dB	MHz Avg Type: Avg Hold:	100/100 N	۰ Mkr1 2.44	51 PMAug 05, 20 RACE 1 2 3 4 5 TYPE WWWW DET P NNNN 5 46 GH
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	RF 50.0 A q 2.4520000 Ref Ref Ref 0ffset 2.38 d Ref Ref Ref	с IOO GHz В m	PNO: Fast → FGain:Low	SENSE:INT Trig: Free #Atten: 30	Run) dB	MHz Avg Type: Avg Hold:	100/100 N	Mkr1 2.44 -12	51 PM Aug 05, 20 FACE 11, 23 TYPE NNNN 15 46 GH . 120 dBr
	RF 50.0 A q 2.4520000 Ref Ref Ref 20.00 dBr	с IOO GHz В m	PNO: Fast FGain:Low	SENSE:INT Trig: Free #Atten: 30	Run) dB	MHz Avg Type: Avg Hold:		Akr1 2.44 -12	51 PM Aug 05, 20 RACE 12 3 4 5 17 PE 12 3 4 5 DET P NNNI 5 46 GH 120 dB1



10. Bandwidth Test

10.1 Block Diagram Of Test Setup



10.2 Limit

		FCC Part15 (15.247) , Subpart C	
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (-6dB bandwidth)	2400-2483.5	PASS

10.3 Test procedure

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

10.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss



10.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz

Test Mode	Frequency (MHz)	-6dB bandwidth (MHz)	Limit (kHz)	Result
	2412	8.621	500	Pass
TX b Mode	2437	9.998	500	Pass
	2462	10.021	500	Pass
	2412	16.327	500	Pass
TX g Mode	2437	16.295	500	Pass
	2462	16.142	500	Pass
	2412	17.554	500	Pass
TX n Mode(20M)	2437	17.546	500	Pass
	2462	17.259	500	Pass
	2422	35.738	500	Pass
TX n Mode(40M)	2437	35.072	500	Pass
	2452	35.544	500	Pass

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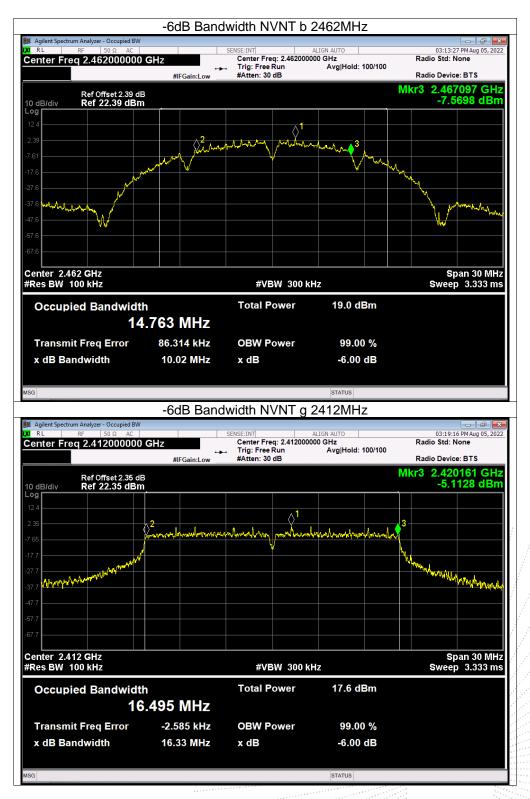
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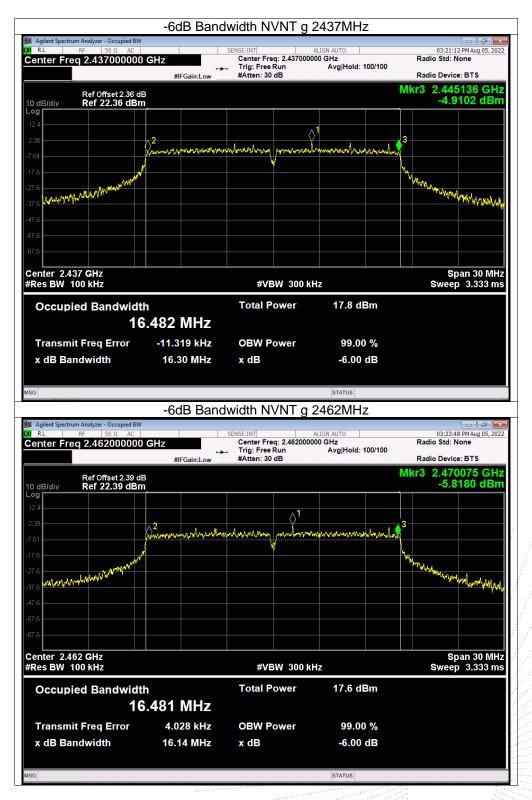




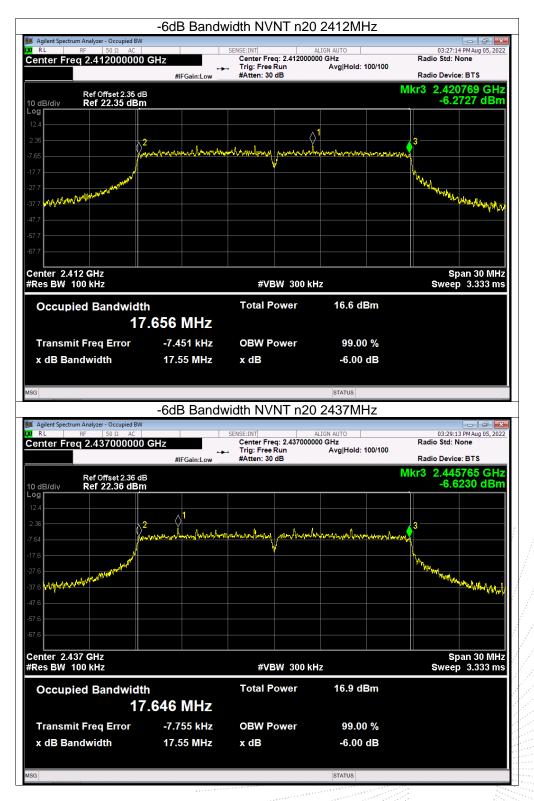




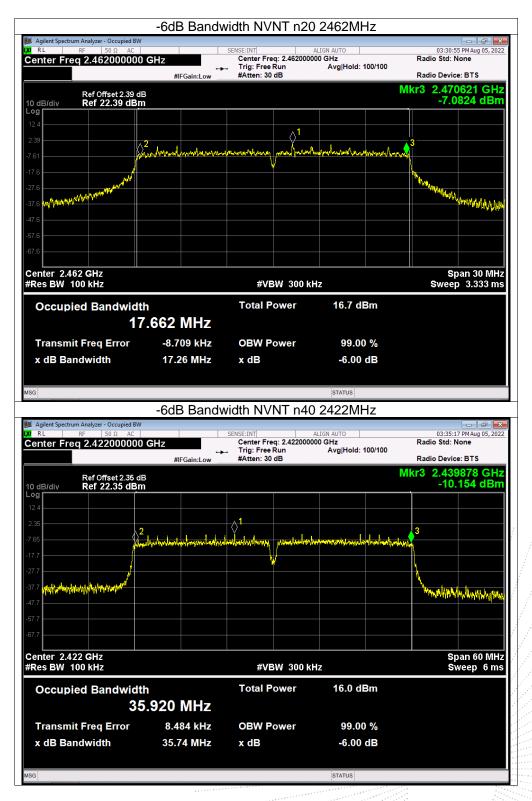




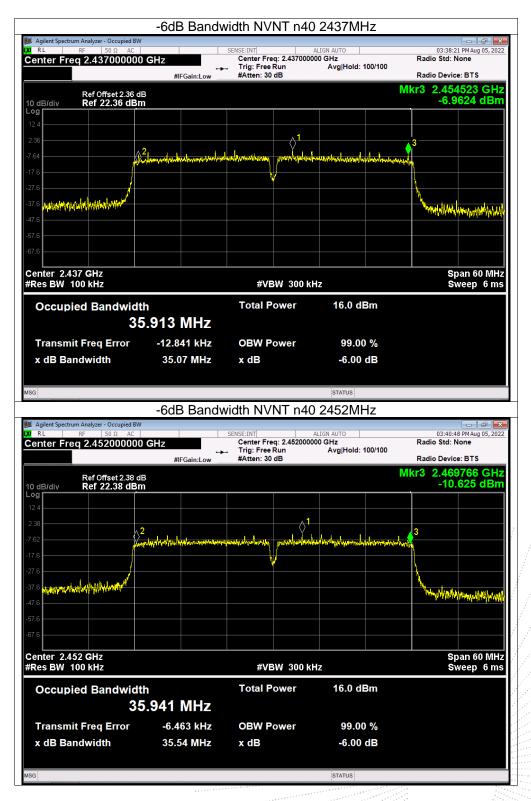














11. Peak Output Power Test

11.1 Block Diagram Of Test Setup



11.2 Limit

		FCC Part15 (15.247) ,	Subpart C	
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

11.3 Test Procedure

a. The EUT was directly connected to the Power meter

11.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing. Note: Power Spectral Density(dBm)=Reading+Cable Loss

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11.5 Test Result

Temperature	e: 26	°C	Relative Hum	nidity:	54%
Pressure:	10 ⁻	1KPa	Test Voltage:		AC120V/60Hz
Test Mode	Frequency(N	/Hz) Max	kimum Conducted Outp Power(PK) (dBm)	out	Limit (dBm)
	2412		12.60		30
802.11b	2437		13.00		30
	2462		13.16		30
	2412		11.71		30
802.11g	2437		11.81		30
	2462		11.72		30
	2412		10.72		30
802.11n20	2437		10.86		30
	2462		10.78	N	30
	2422		9.60		30
802.11n40	2437		9.54		30
	2452		9.68		30

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12. 100 kHz Bandwidth Of Frequency Band Edge

12.1 Block Diagram Of Test Setup



12.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

12.3 Test Procedure

Using the following spectrum analyzer setting:

- a) Set the RBW = 100KHz.
- b) Set the VBW = 300KHz.
- c) Sweep time = auto couple.
- d) Detector function = peak.
- e) Trace mode = max hold.
- f) Allow trace to fully stabilize..

12.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing. Note: Power Spectral Density(dBm)=Reading+Cable Loss

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12.5 Test Result





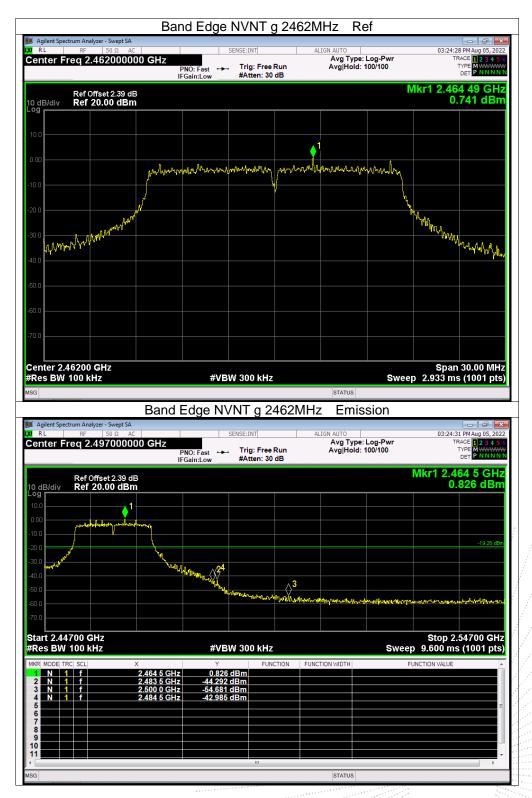




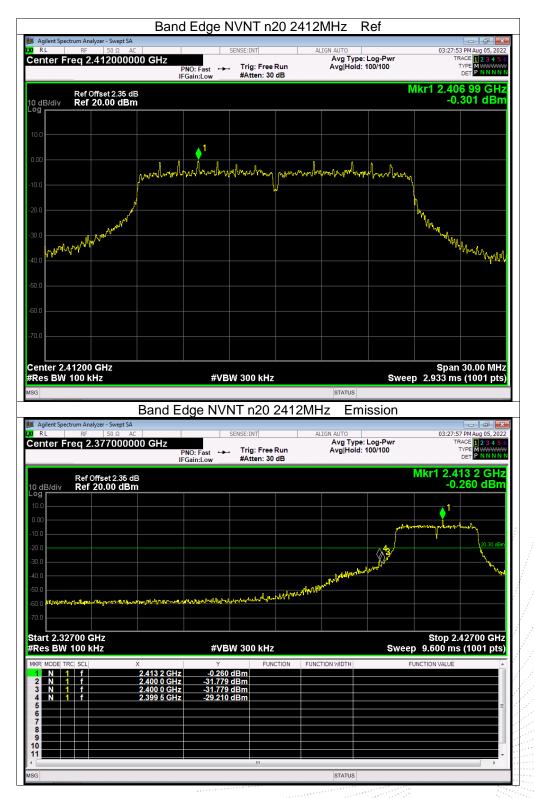


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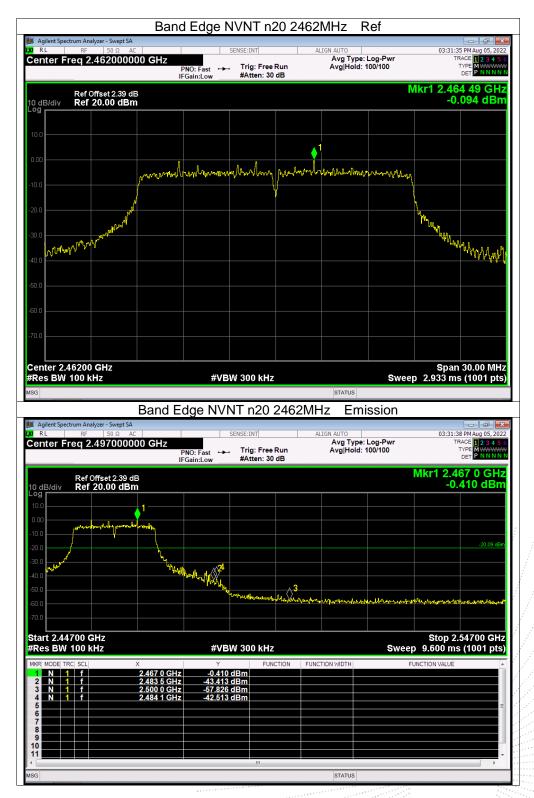




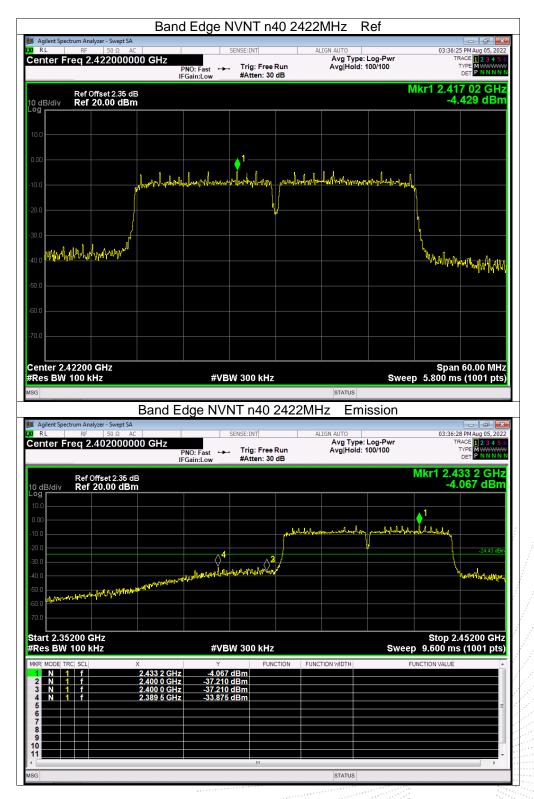


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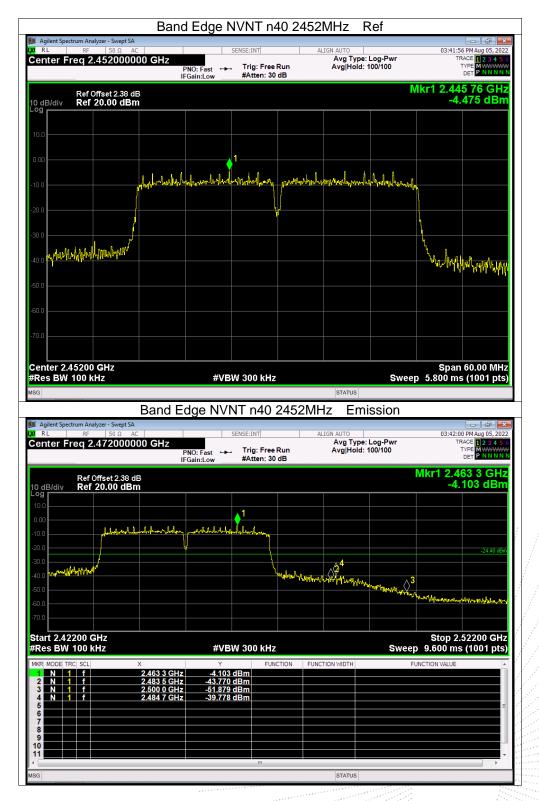






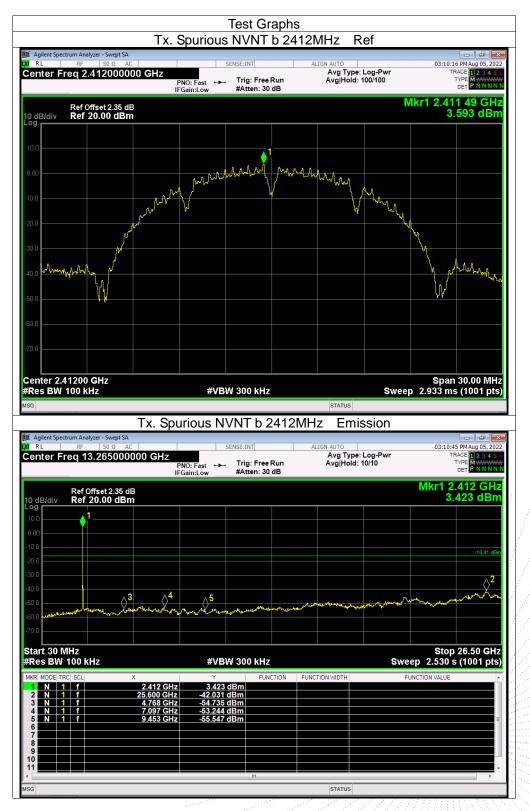








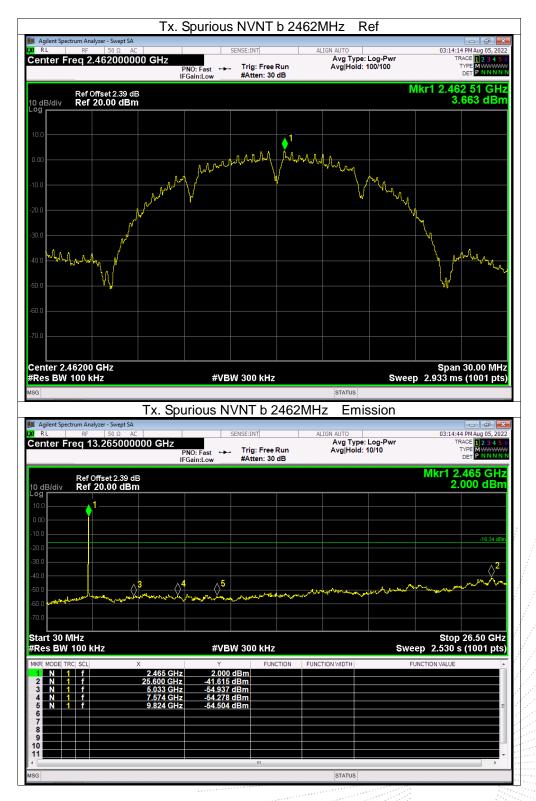
Conducted Emission Measurement



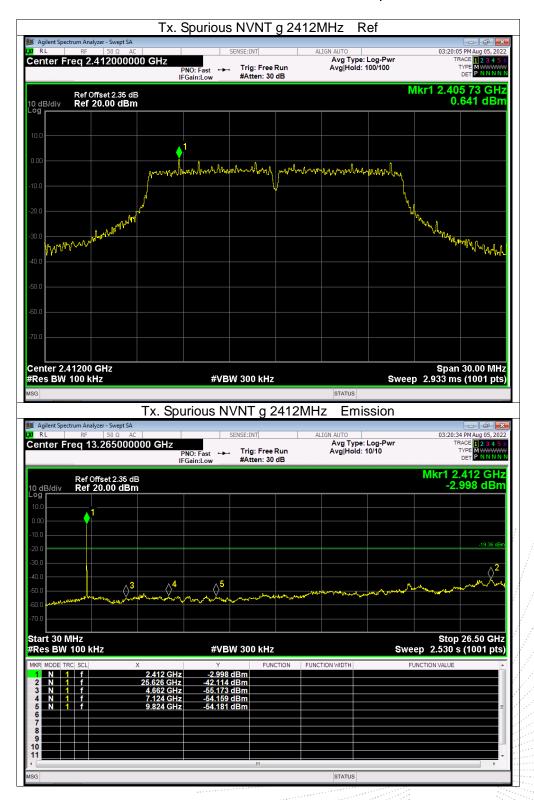




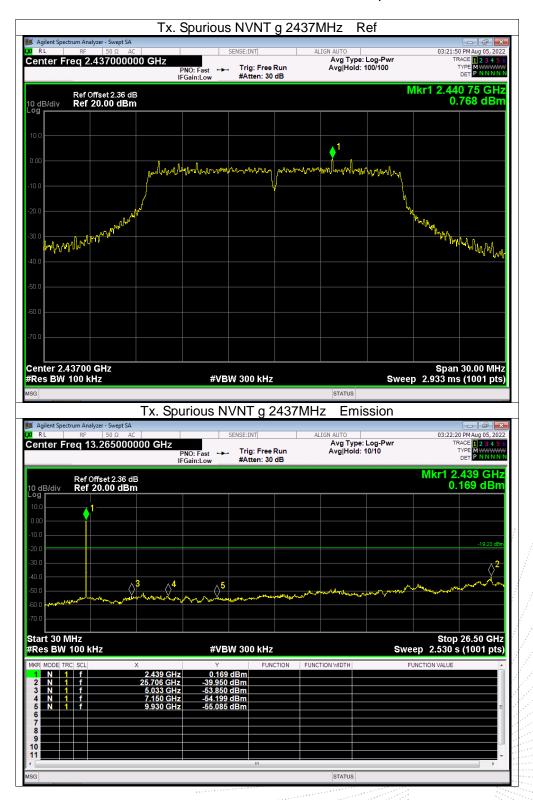




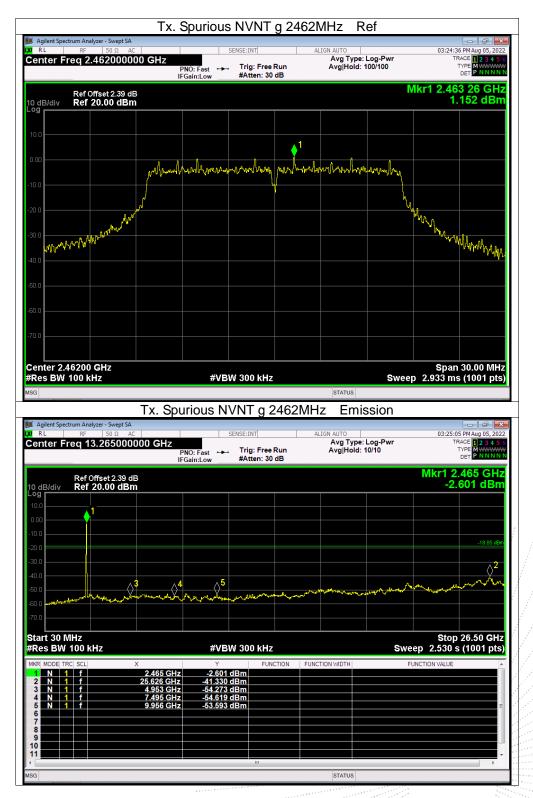




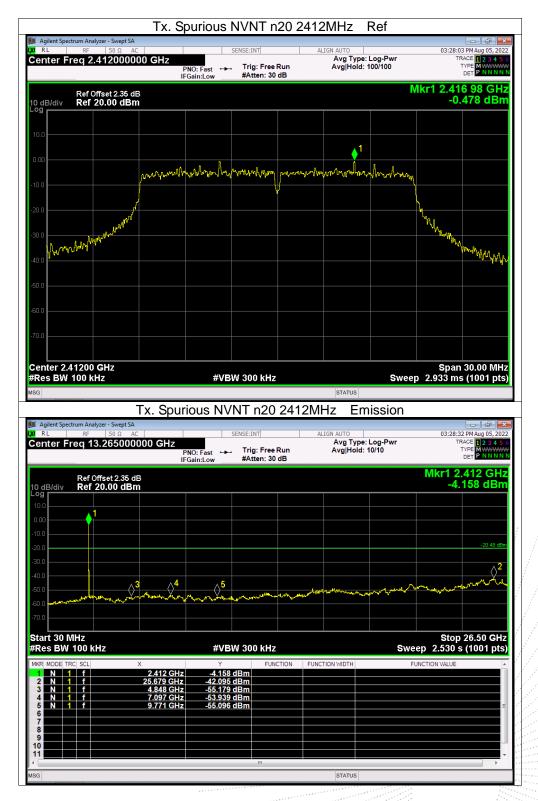




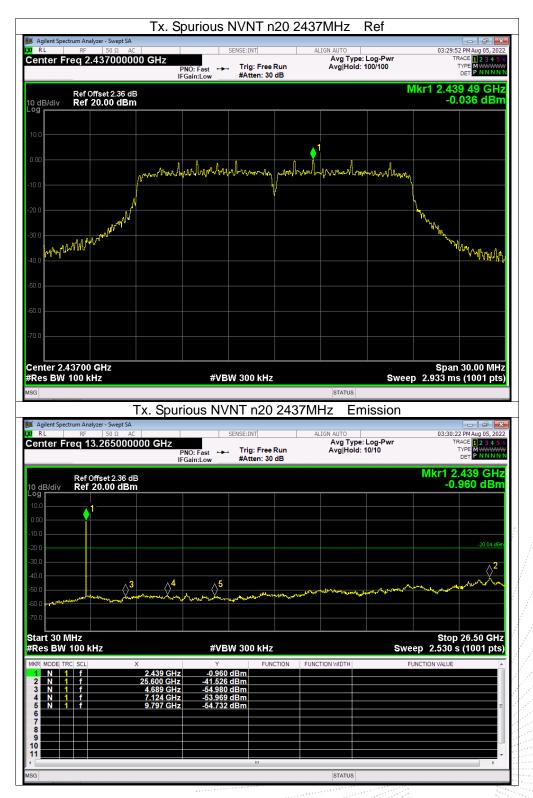




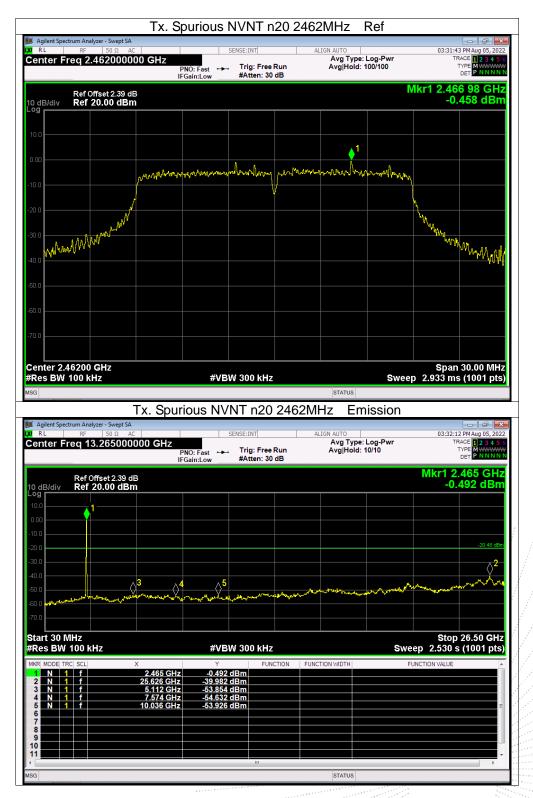




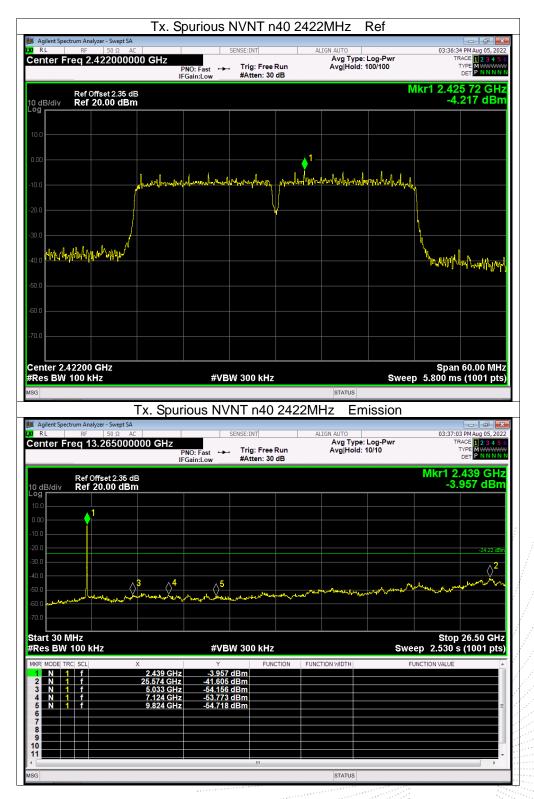




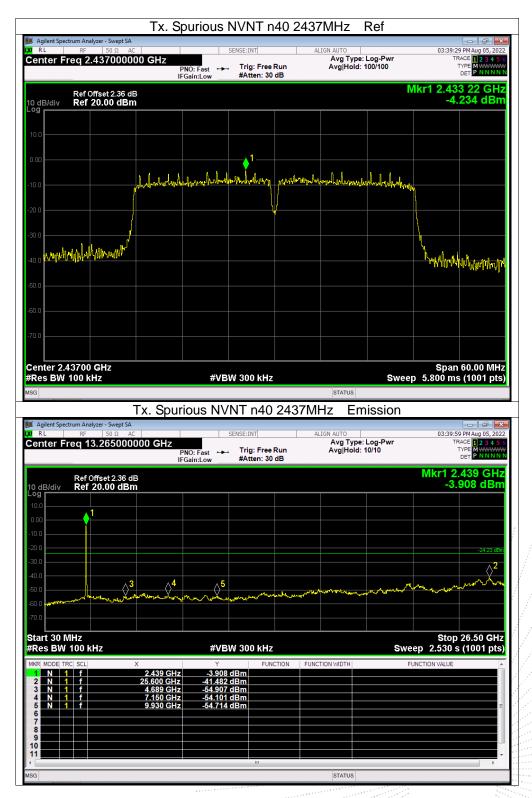




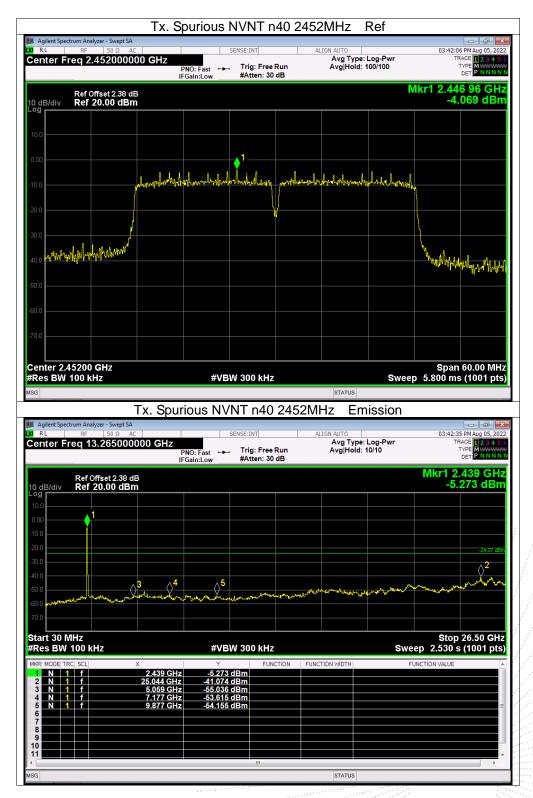














13. Duty Cycle Of Test Signal

13.1 Standard Requirement

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.

13.2 Formula

Duty Cycle = Ton / (Ton+Toff)

13.3 Test Procedure

- 1.Set span = Zero
- 2. RBW = 10MHz
- 3. VBW = 10MHz,
- 4. Detector = Peak

13.4 Test Result

	1. In the second second second second second second second second second second second second second second se	
Test mode	Duty Cycle	Duty Fator (dB)
	100	0
802.11b	100	0
	100	0
	100	0
802.11g	100	0
	100	0
	100	0
802.11n(HT20)	100	0
	100	0
	100	0
802.11n(HT40)	100	0
	100	0

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Anilant Constants And Constants	Duty Cyc	le NVNT b 2	412MHz			
Agilent Spectrum Analyzer - Swept SA R L RF 50 Ω AC	S	ENSE:INT	ALIGN AUTO	_	04:45:05 PM Aug 05	i, 20
nter Freq 2.41200000	PNO: Fast ++++	Trig: Free Run	Avg Type: Lo	og-Pwr	TRACE 1 2 3 TYPE WWW DET P N N	4
	IFGain:Low	#Atten: 30 dB				_
Ref Offset 2.35 dB dB/div Ref 20.00 dBm					Mkr1 50.00 10.49 d	m Br
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enter 2.412000000 GHz es BW 8 MHz	#VBV	V 8.0 MHz		Sweep 1	Span (00.0 ms (10001	
R MODE TRC SCL X	Y		FUNCTION WIDTH	FUNC	TION VALUE	
<u>N 1 t</u>	50.00 ms 10.49 c	dBm				
						_
		III				•
			STATUS			•
	Duty Cyc					•
Agilent Spectrum Analyzer - Swept SA	· · ·	le NVNT b 2	437MHz		-	
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC) GHz	IE NVNT b 2		og-Pwr	04:45:48 PM Aug 05	i, 20
RL RF 50 Ω AC	S	le NVNT b 2	437MHz	og-Pwr		i, 20
RL RF 50 Ω AC nter Freq 2.437000000 Ref Offset 2.36 dB) GHz PNO: Fast ↔	Ie NVNT b 2	437MHz	og-Pwr	04:45:48 PM Aug 05 TRACE 1 2 3 TYPE WWW DET PN N Mkr1 50.00	6, 20
RL RF 50 Ω AC nter Freq 2.437000000 Ref Offset 2.36 dB dB/div Ref 20.00 dBm) GHz PNO: Fast ↔	EIE NVNT b 2 ENSE:INT Trig: Free Run #Atten: 30 dB	437MHz	og-Pwr	04:45:48 PM Aug 05 TRACE 1 2 3 TYPE WWW DET P N N	6, 20
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RL RF 50 Ω AC nter Freq 2.437000000 Ref Offset 2.36 dB dB/div Ref 20.00 dBm 0 0 0 0) GHz PNO: Fast ↔	EIE NVNT b 2 ENSE:INT Trig: Free Run #Atten: 30 dB	437MHz	og-Pwr	04:45:48 PM Aug 05 TRACE 1 2 3 TYPE WWW DET PN N Mkr1 50.00	6, 20
RL RF 50 Ω AC nter Freq 2.437000000 Ref Offset 2.36 dB dB/div Ref 20.00 dBm) GHz PNO: Fast ↔	EIE NVNT b 2 ENSE:INT Trig: Free Run #Atten: 30 dB	437MHz	og-Pwr	04:45:48 PM Aug 05 TRACE 1 2 3 TYPE WWW DET PN N Mkr1 50.00	6, 20 4
RL RF 50 Ω AC nter Freq 2.437000000 Ref Offset 2.36 dB Ref 20.00 dBm dB/div Ref 20.00 dBm Ref 20.00 dBm 0 0 0 0 0 0 0 0 0 0 0 0) GHz PNO: Fast ↔	EIE NVNT b 2 ENSE:INT Trig: Free Run #Atten: 30 dB	437MHz	og-Pwr	04:45:48 PM Aug 05 TRACE 1 2 3 TYPE WWW DET PN N Mkr1 50.00	6, 20 4
RL RF 50 Ω AC nter Freq 2.437000000 Ref Offset 2.36 dB Ref 20.00 dBm g 0 0 0 0 0 0 0 0 0 0 0) GHz PNO: Fast ↔	EIE NVNT b 2 ENSE:INT Trig: Free Run #Atten: 30 dB	437MHz	pg-Pwr	04:45:48 PM Aug 05 TRACE 1 2 3 TYPE WWW DET PN N Mkr1 50.00	6, 20 4
Agilent Spectrum Analyzer - Swept SA RL RF 50 Q AC Inter Freq 2.437000000 Ref Offset 2.36 dB) GHz PNO: Fast ↔	EIE NVNT b 2 ENSE:INT Trig: Free Run #Atten: 30 dB	437MHz	og-Pwr	04:45:48 PM Aug 05 TRACE 1 2 3 TYPE WWW DET PN N Mkr1 50.00	6, 20 4
RL RF 50 Ω AC nter Freq 2.437000000 Ref 0ffset 2.36 dB Ref 20.00 dBm 0) GHz PNO: Fast ↔	EIE NVNT b 2 ENSE:INT Trig: Free Run #Atten: 30 dB	437MHz	og-Pwr	04:45:48 PM Aug 05 TRACE 1 2 3 TYPE WWW DET PN N Mkr1 50.00	6, 20 4
RL RF 50 Ω AC nter Freq 2.437000000 Ref Offset 2.36 dB B dB/div Ref 20.00 dBm B 0 0 0 0 0 0 0 0 0 0 0 0) GHz PNO: Fast ↔	EIE NVNT b 2 ENSE:INT Trig: Free Run #Atten: 30 dB	437MHz	og-Pwr	04:45:48 PM Aug 02 TRACE 12 3 TYPE WW DET P NN Mkr1 50.00 11.08 d	m Br
RL RF 50 Ω AC nter Freq 2.437000000 Ref Offset 2.36 dB B dB/div Ref 20.00 dBm B 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td>O GHz PNO: Fast IFGain:Low</td> <td>EIE NVNT b 2 ENSE:INT Trig: Free Run #Atten: 30 dB</td> <td>437MHz</td> <td></td> <td>04:45:48 PM Aug 05 TRACE 1 2 3 TYPE WWW DET PN N Mkr1 50.00</td> <td>m Br</td>	O GHz PNO: Fast IFGain:Low	EIE NVNT b 2 ENSE:INT Trig: Free Run #Atten: 30 dB	437MHz		04:45:48 PM Aug 05 TRACE 1 2 3 TYPE WWW DET PN N Mkr1 50.00	m Br
RL RF 50.Q AC nter Freq 2.437000000 Ref Offset 2.36 dB Ref 20.00 dBm B Ref 20.00 dBm Ref 20.00 dBm C Ref 20.00 dBm Ref 20.00 dBm R RMBZ Ref 20.00 dBm) GHz PNO: Fast IFGain:Low #VBW	Ie NVNT b 2 ENSE:INT Trig: Free Run #Atten: 30 dB	437MHz	Sweep 1	04:45:48 PM Aug 02 TRACE 12 3 TYPE V DET P NN Mkr1 50.00 11.08 d	m Br
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Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Inter Freq 2.437000000 Ref Offset 2.36 dB dB/div Ref 20.00 dBm 9 9 9 9 9 9 9 9 9 9 9 9 9) GHz PNO: Fast IFGain:Low #VBW	Ie NVNT b 2 ENSE:INT Trig: Free Run #Atten: 30 dB	437MHz	Sweep 1	04:45:48 PM Aug 02 TRACE 12 3 TYPE WW DET P 11 Mkr1 50.00 11.08 d	m Br
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC nter Freq 2.437000000 Ref Offset 2.36 dB dB/div Ref 20.00 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0) GHz PNO: Fast IFGain:Low #VBW	Ie NVNT b 2 ENSE:INT Trig: Free Run #Atten: 30 dB	437MHz	Sweep 1	04:45:48 PM Aug 02 TRACE 12 3 TYPE WW DET P 11 Mkr1 50.00 11.08 d	m Br
RL RF 50.Q AC nter Freq 2.437000000 Ref Offset 2.36 dB B dB/div Ref 20.00 dBm Image: Comparison of the second) GHz PNO: Fast IFGain:Low #VBW	Ie NVNT b 2 ENSE:INT Trig: Free Run #Atten: 30 dB	437MHz	Sweep 1	04:45:48 PM Aug 02 TRACE 12 3 TYPE WW DET P 11 Mkr1 50.00 11.08 d	m Br
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Inter Freq 2.437000000 Ref Offset 2.36 dB GB/div Ref 20.00 dBm 9 0 0 0 0 0 0 0 0 0 0 0 0 0) GHz PNO: Fast IFGain:Low #VBW	Ie NVNT b 2 ENSE:INT Trig: Free Run #Atten: 30 dB	437MHz	Sweep 1	04:45:48 PM Aug 02 TRACE 12 3 TYPE WW DET P 11 Mkr1 50.00 11.08 d	m Br

No. : BCTC/RF-EMC-005



Agilent Spectrum Analyzer - Swept SA R L RF 50 Ω AC		CENCE-INT			04-46-4	- @ E
RL RF 50 Ω AC enter Freq 2.462000000 Gł		SENSE:INT		e: Log-Pwr	TF	3 PM Aug 05, 202 RACE 1 2 3 4 5
	PNO: Fast ← IFGain:Low	 Trig: Free Rui #Atten: 30 dB 	·			
Ref Offset 2.39 dB					Mkr1	50.00 m 9.81 dBn
O dB/div Ref 20.00 dBm		1			1	.or ubi
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0.0						
20.0						
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enter 2.462000000 GHz es BW 8 MHz	#V	BW 8.0 MHz		Sweep	100.0 ms	Span 0 H: (10001 pts
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3 4						
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G			STATUS			
	Duty C	ycle NVNT	g 2412MHz			
			<u> </u>			
RL RF 50 Ω AC		SENSE:INT	ALIGN AUTO			7 PM Aug 05, 202
RL RF 50 Ω AC	Hz PNO: Fast ←	🛶 Trig: Free Rui	ALIGN AUTO Avg Typ	e: Log-Pwr	TF	7 PM Aug 05, 202
RL RF 50 Ω AC	Hz PNO: Fast → IFGain:Low		ALIGN AUTO Avg Typ	e: Log-Pwr	TF	7 PM Aug 05, 20 RACE 1 2 3 4 5 TYPE WWWWW DET PNNN
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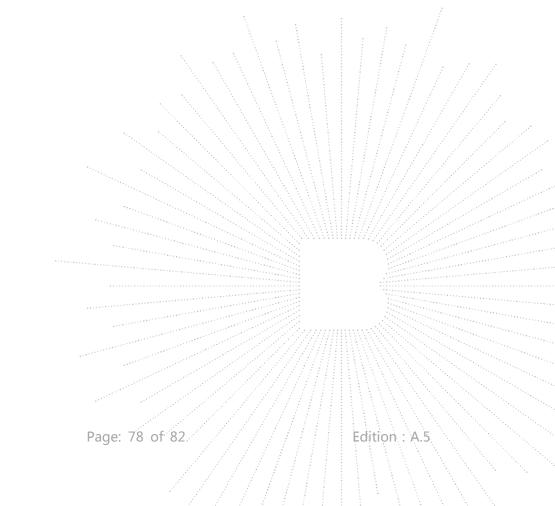
14. Antenna Requirement

14.1 Limit

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

14.1 Test Result

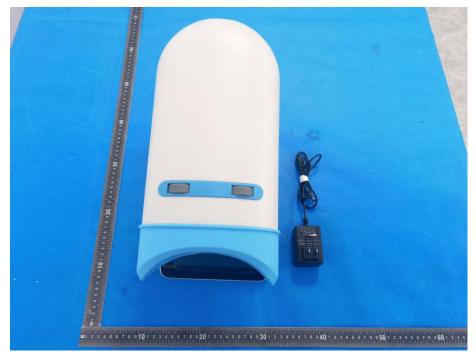
The EUT antenna is Internal antenna, fulfill the requirement of this section.





15. EUT Photographs

EUT Photo



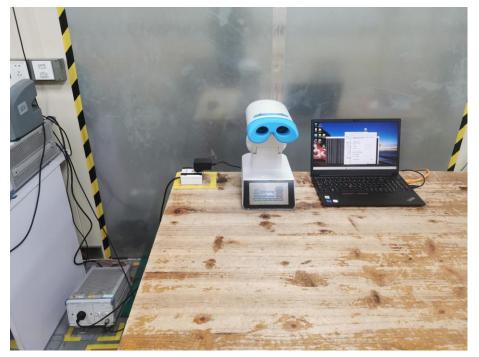
NOTE: Appendix-Photographs Of EUT Constructional Details

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16. EUT Test Setup Photographs

Conducted emissions

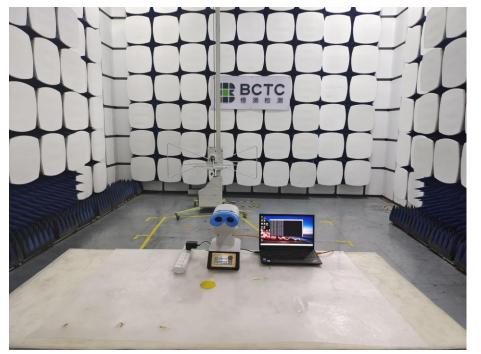


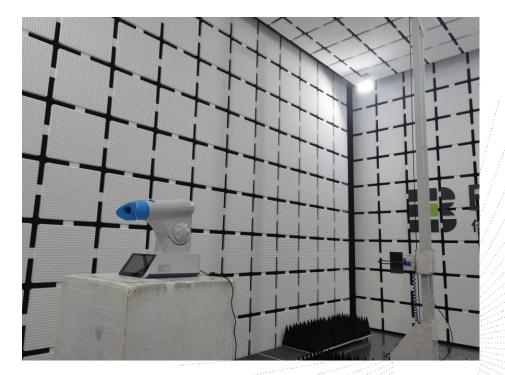


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Radiated Measurement Photos





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STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.

8. The quality system of our laboratory is in accordance with ISO/IEC17025.

9. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

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E-Mail : bctc@bctc-lab.com.cn

***** END *****

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