

TEST REPORT

Report No.:	BCTC2402826691-1E
Applicant:	REOLINK INNOVATION LIMITED
Product Name:	WiFi IP Camera
Test Model:	Reolink Argus PT
Tested Date:	2024-02-01 to 2024-03-12
Issued Date:	2024-03-12

Shenzhen BCTC Testing Co., Ltd.



No.: BCTC/RF-EMC-005

Page: 1 of 70

Edition B.1



FCC ID: 2AYHE-2305B

Product Name: WiFi IP Camera replink Trademark: **Reolink Argus PT** Model/Type reference: Argus Series B430 Prepared For: REOLINK INNOVATION LIMITED FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN Address: STREET MONG KOK KL HONG KONG Manufacturer: REOLINK INNOVATION LIMITED FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN Address: STREET MONG KOK KL HONG KONG Shenzhen Reolink Technology Co., Ltd. 2-4th Floor, Building 2, YuanLing Industrial Park, ShangWu, Shiyan Street, Bao'an District, Shenzhen, China Prepared By: Shenzhen BCTC Testing Co., Ltd. 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China 2024-02-01 Sample Received Date: Sample tested Date: 2024-02-01 to 2024-03-12 Issue Date: 2024-03-12 BCTC2402826691-1E FCC Part15.247 **Test Standards:** ANSI C63.10-2013 PASS This is WIFI-2.4GHz band radio test report.

Tested by:

Brave Zeng/ 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.

Address:

Address:

Report No.:

Test Results:

Remark:

Page: 2 of 70



Table Of Content

Test	Report Declaration	Page	
1.	Version		.5
2.	Test Summary		.6
3.	Measurement Uncertainty		.7
4.	Product Information And Test Setup		.8
4.1	Product Information		.8
4.2	Test Setup Configuration		.8
4.3	Support Equipment		.9
4.4	Channel List		
4.5	Test Mode		
4.6	Table Of Parameters Of Text Software Setting	1	0
5.	Test Facility And Test Instrument Used		
5.1	Test Facility		
5.2	Test Instrument Used		
6.	Conducted Emissions		
6.1	Block Diagram Of Test Setup		
6.2	Limit		
6.3	Test Procedure		
6.4	EUT Operating Conditions		
6.5	Test Result		
7.	Radiated Emissions		
7.1	Block Diagram Of Test Setup		
7.2	Limit		
7.3	Test Procedure		
7.4	EUT Operating Conditions		19
7.5	Test Result		
8. o 1	Radiated Band Emission Measurement And Restricted Bands Of Oper		
8.1 8.2	Block Diagram Of Test Setup		
o.∠ 8.3	Test Procedure		20 26
o.s 8.4	ELIT operating Conditions		20 26
0.4 8.5	EUT operating Conditions Test Result		20 27
8.5 9.	Power Spectral Density Test		- <i>1</i> 20
9.1	Block Diagram Of Test Setup	······································	20
9.1 9.2	Power Spectral Density Test Block Diagram Of Test Setup Limit		20
9.2 9.3	Test Procedure		20
9.5	Test Result	5	20
10.	Test Result Bandwidth Test		36
10.1	Block Diagram Of Test Setup		36
10.2	Block Diagram Of Test Setup Limit		36
10.3	Test Procedure		36
10.4			36
10.5			37



11. Peak Output Power Test	43
11.1 Block Diagram Of Test Setup	43
11.2 Limit	43
11.3 Test Procedure	43
11.4 EUT Operating Conditions	43
11.5 Test Result	43
12. 100 KHz Bandwidth Of Frequency Band Edge	44
12.1 Block Diagram Of Test Setup	44
12.2 Limit	
12.3 Test Procedure	44
12.4 EUT Operating Conditions	44
12.5 Test Result	45
13. Duty Cycle Of Test Signal	60
13.1 Standard Requirement	60
13.2 Formula	60
13.3 Test Procedure	60
13.4 Test Result	60
14. Antenna Requirement	66
14.1 Limit	66
14.2 Test Result	66
15. EUT Photographs	67
16. EUT Test Setup Photographs	68

(Note: N/A means not applicable)

Page: 4 of 70



1. Version

Report No.	Issue Date	Description	Approved
BCTC2402826691-1E	2024-03-12	Original	Valid



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



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(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
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:	Reolink Argus PT Argus Series B430
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	802.11b/g/n20MHz:2412~2462 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:	OFDM/DSSS
Number Of Channel	802.11b/g/n20MHz:11 CH
Antenna installation:	External antenna
Antenna Gain:	 2.89 dBi 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. The antenna gain of the product is provided by the customer, and the test data is affected by the customer, and the test data is affected by the customer information.
Ratings:	AC120V/60Hz

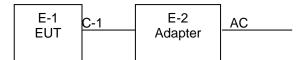
4.2 Test Setup Configuration

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	WiFi IP Camera	reolink	Reolink Argus PT	N/A	EUT

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

	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				

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	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n20 CH1/ CH6/ CH11
Mode 4	Link Mode

Note:

(1) 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	CMD		
Frequency	2412 MHz	2437 MHz	2462 MHz
Parameters	DEF	DEF	DEF



Page: 10 of 70



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

Conducted Emissions Test							
Equipment	Equipment Manufacturer Model# Serial# Last Cal. Next						
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	١	١		
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	Sept. 22, 2023	Sept. 21, 2024		

5.2 Test Instrument Used

RF Conducted Test							
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.		
Power meter	Keysight	E4419	\	May 15, 2023	May 14, 2024		
Power Sensor (AV)	Keysight	E9300A	١	May 15, 2023	May 14, 2024		
Signal Analyzer20kH z-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	· · · · · · · · · · · · · · · · · · ·		I		



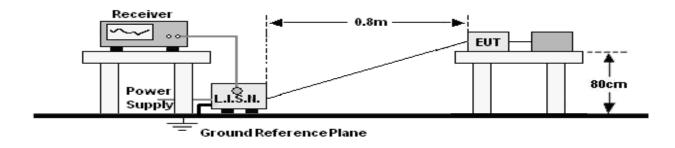
Radiated Emissions Test (966 Chamber01)						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
966 chamber	ChengYu	966 Room 966		May 15, 2023	May 14, 2026	
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024	
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024	
Amplifier	Schwarzbeck	BBV9744	9744-0037	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	SK202104090 1	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 Antenna(18G Hz-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	١	١	

Page: 12 of 70



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

FREQUENCY (MHz)	Limit (dBuV)		
FREQUENCI (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.

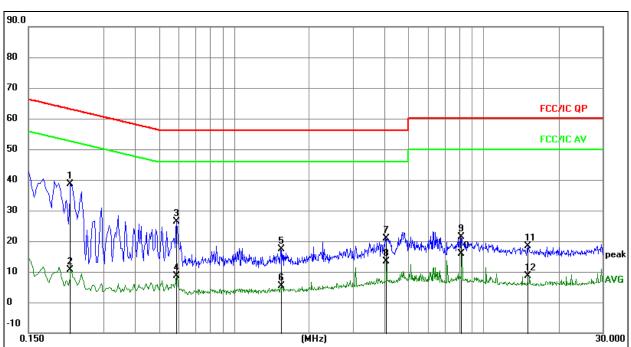
6.4 EUT Operating Conditions

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	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

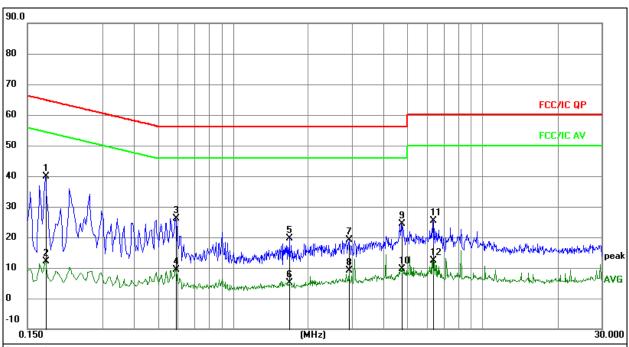
3. Measurement=Reading Level+ Correct Factor 4. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.2208	18.86	19.83	38.69	62.79	-24.10	QP
2		0.2208	-9.31	19.83	10.52	52.79	-42.27	AVG
3		0.5885	6.63	19.84	26.47	56.00	-29.53	QP
4		0.5885	-11.09	19.84	8.75	46.00	-37.25	AVG
5		1.5355	-2.48	19.95	17.47	56.00	-38.53	QP
6		1.5355	-14.64	19.95	5.31	46.00	-40.69	AVG
7		4.0489	0.33	20.65	20.98	56.00	-35.02	QP
8		4.0489	-7.26	20.65	13.39	46.00	-32.61	AVG
9		8.1053	1.36	19.93	21.29	60.00	-38.71	QP
10		8.1053	-4.06	19.93	15.87	50.00	-34.13	AVG
11		15.0656	-1.56	19.88	18.32	60.00	-41.68	QP
12		15.0656	-11.20	19.88	8.68	50.00	-41.32	AVG

No.: BCTC/RF-EMC-005



Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	101kPa	Phase :	Neutral
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



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	
----	------------------------	--

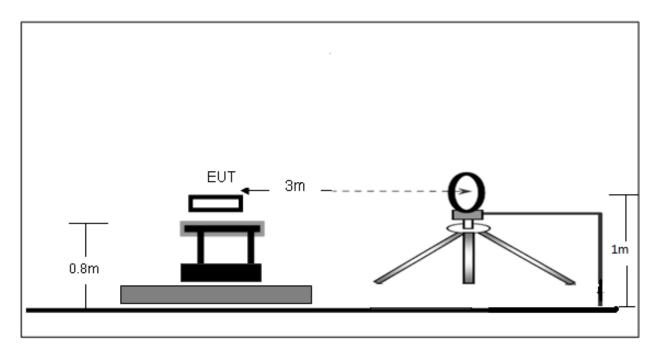
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.1770	20.07	19.78	39.85	64.63	-24.78	QP
2		0.1770	-7.65	19.78	12.13	54.63	-42.50	AVG
3		0.5909	6.37	19.84	26.21	56.00	-29.79	QP
4		0.5909	-10.46	19.84	9.38	46.00	-36.62	AVG
5		1.6889	-0.41	19.95	19.54	56.00	-36.46	QP
6		1.6889	-14.71	19.95	5.24	46.00	-40.76	AVG
7		2.9265	-1.10	20.28	19.18	56.00	-36.82	QP
8		2.9265	-11.14	20.28	9.14	46.00	-36.86	AVG
9		4.7220	3.95	20.49	24.44	56.00	-31.56	QP
10		4.7220	-10.78	20.49	9.71	46.00	-36.29	AVG
11		6.3420	5.23	20.11	25.34	60.00	-34.66	QP
12		6.3420	-7.81	20.11	12.30	50.00	-37.70	AVG

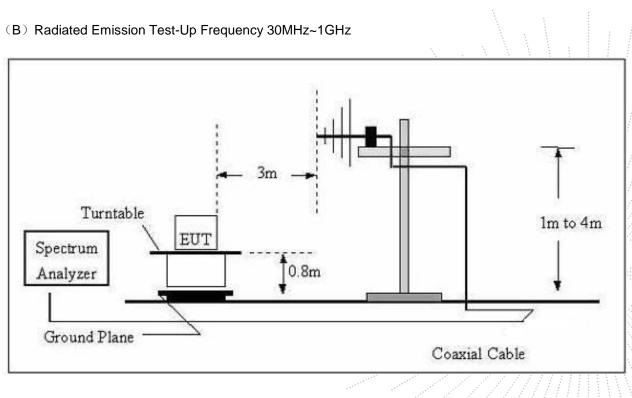


7. Radiated Emissions

7.1 Block Diagram Of Test Setup

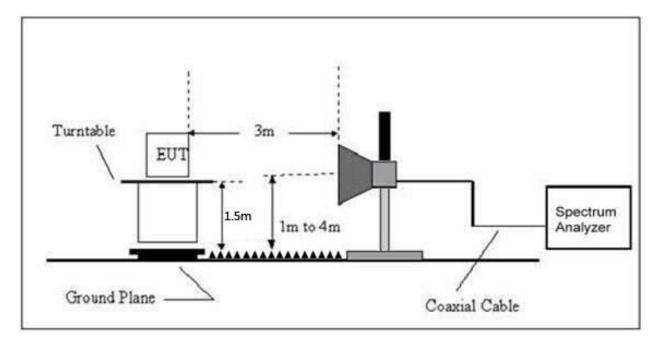
(A) Radiated Emission Test-Up Frequency Below 30MHz







(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		
(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)	Limit (dBu)	//m) (at 3M)
FREQUENCE (MHZ)	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 (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

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 chamber. 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:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).

h. Test the EUT in the lowest channel ,the middle 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.



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 chamber. 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.

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 ℃	Relative Humidity: 54%	
Pressure:	101 kPa	Test Voltage: AC120V/60Hz	
Test Mode:	Mode 4	Polarization:	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
			1	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.

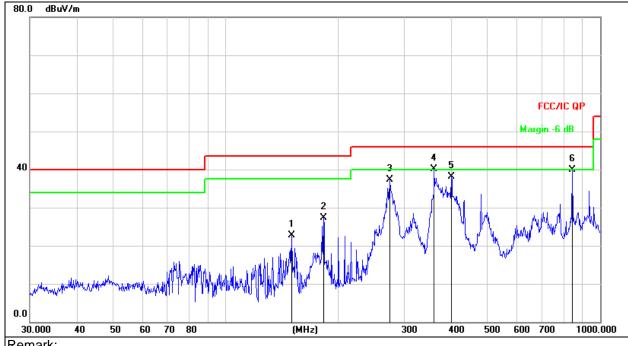
Distance extrapolation factor =40 log (specific distance/test distance)(dB);

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



Between 30MHz – 1GHz						
Temperature:	26 ℃	Relative Humidity:	54%			
Pressure:	101KPa	Phase :	Horizontal			
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz			





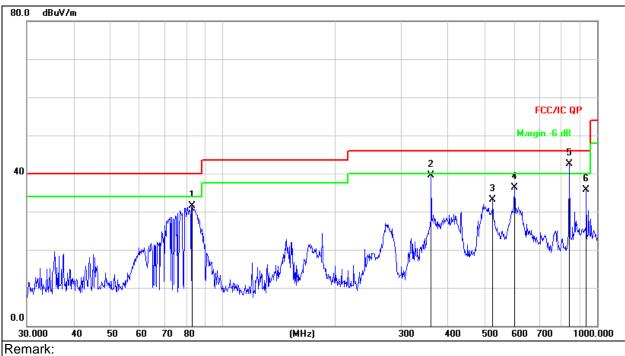
Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	15	50.0108	42.11	-19.43	22.68	43.50	-20.82	QP
2	18	32.5592	44.28	-17.01	27.27	43.50	-16.23	QP
3	27	74.1939	51.16	-13.78	37.38	46.00	-8.62	QP
4	* 36	60.4476	51.54	-11.35	40.19	46.00	-5.81	QP
5	40	0.4319	48.88	-10.83	38.05	46.00	-7.95	QP
6	84	12.1296	43.87	-4.05	39.82	46.00	-6.18	QP



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



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

2. Measurement = Reading Level + Correct Factor

			0
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		82.9385	50.61	-19.06	31.55	40.00	-8.45	QP
2		360.4476	50.84	-11.35	39.49	46.00	-6.51	QP
3		526.3967	42.67	-9.54	33.13	46.00	-12.87	QP
4		601.4265	43.21	-7.00	36.21	46.00	-9.79	QP
5	*	842.1296	46.59	-4.05	42.54	46.00	-3.46	QP
6		935.5463	38.62	-2.99	35.63	46.00	-10.37	QP



Between 1GHz – 25GHz

802.11b

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
			Low channe	el:2412MHz			
V	4824.00	68.34	-19.95	48.39	74.00	-25.61	PK
V	4824.00	60.05	-19.95	40.10	54.00	-13.90	AV
V	7236.00	58.59	-14.14	44.45	74.00	-29.55	PK
V	7236.00	47.80	-14.14	33.66	54.00	-20.34	AV
Н	4824.00	66.16	-19.95	46.21	74.00	-27.79	PK
Н	4824.00	55.91	-19.95	35.96	54.00	-18.04	AV
Н	7236.00	57.54	-14.14	43.40	74.00	-30.60	PK
Н	7236.00	49.42	-14.14	35.28	54.00	-18.72	AV
			Middle chan	nel:2437MHz			
V	4874.00	67.20	-19.85	47.35	74.00	-26.65	PK
V	4874.00	60.21	-19.85	40.36	54.00	-13.64	AV
V	7311.00	58.98	-13.93	45.05	74.00	-28.95	PK
V	7311.00	49.98	-13.93	36.05	54.00	-17.95	AV
Н	4874.00	63.84	-19.85	43.99	74.00	-30.01	PK
Н	4874.00	53.55	-19.85	33.70	54.00	-20.30	AV
Н	7311.00	56.99	-13.93	43.06	74.00	-30.94	PK
Н	7311.00	49.50	-13.93	35.57	54.00	-18.43	AV
			High chann	el:2462MHz			
V	4924.00	68.81	-19.75	49.06	74.00	-24.94	PK
V	4924.00	59.22	-19.75	39.47	54.00	-14.53	AV
V	7386.00	60.97	-13.72	47.25	74.00	-26.75	PK
V	7386.00	50.25	-13.72	36.53	54.00	-17.47	AV
Н	4924.00	66.63	-19.75	46.88	74.00	-27.12	PK
Н	4924.00	56.47	-19.75	36.72	54.00	-17.28	AV
Н	7386.00	59.58	-13.72	45.86	74.00	-28.14	PK
Н	7386.00	50.93	-13.72	37.21	54.00	-16.79	AV

Remark:

1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - 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.



	-			.11g			
Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
	-	·	Low channe	el:2412MHz			
V	4824.00	68.68	-19.95	48.73	74.00	-25.27	PK
V	4824.00	58.85	-19.95	38.90	54.00	-15.10	AV
V	7236.00	58.70	-14.14	44.56	74.00	-29.44	PK
V	7236.00	49.25	-14.14	35.11	54.00	-18.89	AV
Н	4824.00	67.04	-19.95	47.09	74.00	-26.91	PK
Н	4824.00	57.57	-19.95	37.62	54.00	-16.38	AV
Н	7236.00	57.68	-14.14	43.54	74.00	-30.46	PK
Н	7236.00	49.94	-14.14	35.80	54.00	-18.20	AV
			Middle chan	nel:2437MHz			
V	4874.00	65.57	-19.85	45.72	74.00	-28.28	PK
V	4874.00	59.21	-19.85	39.36	54.00	-14.64	AV
V	7311.00	56.11	-13.93	42.18	74.00	-31.82	PK
V	7311.00	46.70	-13.93	32.77	54.00	-21.23	AV
Н	4874.00	62.55	-19.85	42.70	74.00	-31.30	PK
Н	4874.00	53.06	-19.85	33.21	54.00	-20.79	AV
Н	7311.00	54.89	-13.93	40.96	74.00	-33.04	PK
Н	7311.00	47.29	-13.93	33.36	54.00	-20.64	AV
			High chann	el:2462MHz			
V	4924.00	68.42	-19.75	48.67	74.00	-25.33	PK
V	4924.00	60.08	-19.75	40.33	54.00	-13.67	AV
V	7386.00	61.61	-13.72	47.89	74.00	-26.11	PK
V	7386.00	52.53	-13.72	38.81	54.00	-15.19	AV
Н	4924.00	67.41	-19.75	47.66	74.00	-26.34	PK
Н	4924.00	56.87	-19.75	37.12	54.00	-16.88	AV
Н	7386.00	60.54	-13.72	46.82	74.00	-27.18	PK
Н	7386.00	51.72	-13.72	38.00	54.00	-16.00	AV

Remark:

1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - 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.



	802.11n20								
Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector		
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре		
	÷	•	Low channe	el:2412MHz					
V	4824.00	68.72	-19.95	48.77	74.00	-25.23	PK		
V	4824.00	58.17	-19.95	38.22	54.00	-15.78	AV		
V	7236.00	58.00	-14.14	43.86	74.00	-30.14	PK		
V	7236.00	48.83	-14.14	34.69	54.00	-19.31	AV		
Н	4824.00	65.84	-19.95	45.89	74.00	-28.11	PK		
Н	4824.00	56.02	-19.95	36.07	54.00	-17.93	AV		
Н	7236.00	55.41	-14.14	41.27	74.00	-32.73	PK		
Н	7236.00	47.54	-14.14	33.40	54.00	-20.60	AV		
	-	·	Middle chan	nel:2437MHz					
V	4874.00	66.71	-19.85	46.86	74.00	-27.14	PK		
V	4874.00	60.64	-19.85	40.79	54.00	-13.21	AV		
V	7311.00	56.01	-13.93	42.08	74.00	-31.92	PK		
V	7311.00	47.27	-13.93	33.34	54.00	-20.66	AV		
Н	4874.00	63.59	-19.85	43.74	74.00	-30.26	PK		
Н	4874.00	53.01	-19.85	33.16	54.00	-20.84	AV		
Н	7311.00	53.15	-13.93	39.22	74.00	-34.78	PK		
Н	7311.00	45.55	-13.93	31.62	54.00	-22.38	AV		
			High chann	el:2462MHz					
V	4924.00	68.72	-19.75	48.97	74.00	-25.03	PK		
V	4924.00	60.60	-19.75	40.85	54.00	-13.15	AV		
V	7386.00	60.81	-13.72	47.09	74.00	-26.91	PK		
V	7386.00	51.75	-13.72	38.03	54.00	-15.97	AV		
Н	4924.00	65.97	-19.75	46.22	74.00	-27.78	PK		
Н	4924.00	55.90	-19.75	36.15	54.00	-17.85	AV		
Н	7386.00	58.38	-13.72	44.66	74.00	-29.34	PK		
Н	7386.00	49.74	-13.72	36.02	54.00	-17.98	AV		

Remark:

1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - Limit

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

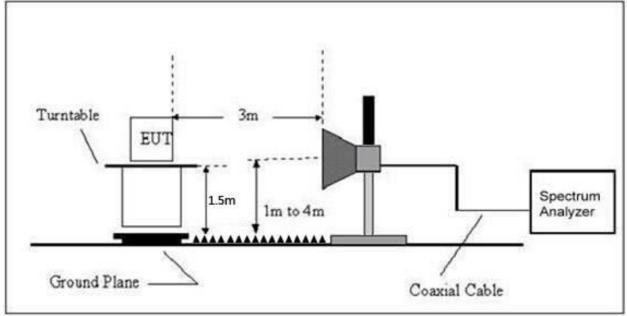
3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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			



LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)		
FREQUENCE (MHZ)	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 chamber. 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)	Fre- quency (MHz)		Measure- ment (dBuV/m)	Measure- ment (dBuV/m)		Over	Result		
			(abuv/m)	(ab)	PK	PK	AV	PK		
		Low Channel 2412MHz								
	Н	2390.00	72.84	-25.43	47.41	74.00	54.00	-26.59	PASS	
	Н	2400.00	76.58	-25.40	51.18	74.00	54.00	-22.82	PASS	
	V	2390.00	71.97	-25.43	46.54	74.00	54.00	-27.46	PASS	
802.11b	V	2400.00	76.37	-25.40	50.97	74.00	54.00	-23.03	PASS	
002.110		High Channel 2462MHz								
	Н	2483.50	73.14	-25.15	47.99	74.00	54.00	-26.01	PASS	
	Н	2500.00	69.24	-25.10	44.14	74.00	54.00	-29.86	PASS	
	V	2483.50	70.33	-25.15	45.18	74.00	54.00	-28.82	PASS	
	V	2500.00	69.33	-25.10	44.23	74.00	54.00	-29.77	PASS	
	Low Channel 2412MHz									
	Н	2390.00	72.26	-25.43	46.83	74.00	54.00	-27.17	PASS	
	Н	2400.00	76.16	-25.40	50.76	74.00	54.00	-23.24	PASS	
	V	2390.00	72.84	-25.43	47.41	74.00	54.00	-26.59	PASS	
802.11g	V	2400.00	74.26	-25.40	48.86	74.00	54.00	-25.14	PASS	
002.11g				High Ch	annel 2462N	1Hz				
	Н	2483.50	70.52	-25.15	45.37	74.00	54.00	-28.63	PASS	
	Н	2500.00	68.98	-25.10	43.88	74.00	54.00	-30.12	PASS	
	V	2483.50	70.95	-25.15	45.80	74.00	54.00	-28.20	PASS	
	V	2500.00	69.07	-25.10	43.97	74.00	54.00	-30,03	PASS	

Remark:

1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - 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.



Test mode	Polar (H/V)	quency	ncy Level	Correct Factor	Measure- ment (dBuV/m)	Meas ment (d	sure- BuV/m)	Over	Result
		(MHz)	(dBuV/m)	(dB)	PK	PK	AV	PK	
	Low Channel 2412MHz								
	Н	2390.00	72.24	-25.43	46.81	74.00	54.00	-27.19	PASS
	Н	2400.00	75.28	-25.40	49.88	74.00	54.00	-24.12	PASS
	V	2390.00	72.32	-25.43	46.89	74.00	54.00	-27.11	PASS
802.11	V	2400.00	73.45	-25.40	48.05	74.00	54.00	-25.95	PASS
n20	High Channel 2462MHz								
	Н	2483.50	71.83	-25.15	46.68	74.00	54.00	-27.32	PASS
	Н	2500.00	68.74	-25.10	43.64	74.00	54.00	-30.36	PASS
	V	2483.50	70.81	-25.15	45.66	74.00	54.00	-28.34	PASS
	V	2500.00	68.65	-25.10	43.55	74.00	54.00	-30.45	PASS

Remark:

1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier,

Over= Measurement - 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.

Page: 28 of 70



9. Power Spectral Density Test

9.1 Block Diagram Of Test Setup



9.2 Limit

FCC Part15 (15.247) , Subpart C							
Section	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 \ge 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



9.5 Test Result

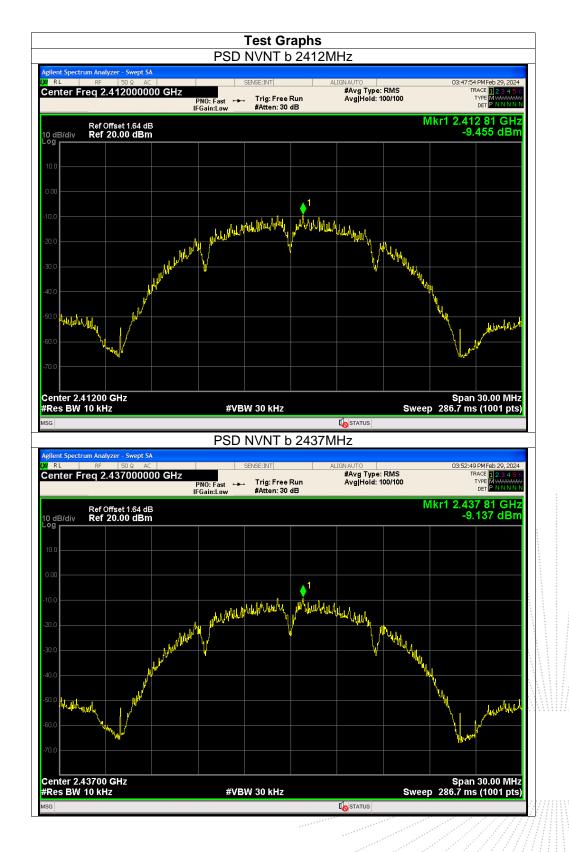
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz

Condition	Mode	Frequency (MHz)	Power Spectral Density (dBm/10kHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
NVNT	b	2412	-9.46	-14.69	8	PASS
NVNT	b	2437	-9.14	-14.37	8	PASS
NVNT	b	2462	-9.39	-14.62	8	PASS
NVNT	g	2412	-15	-20.23	8	PASS
NVNT	g	2437	-14.05	-19.28	8	PASS
NVNT	g	2462	-16.44	-21.67	8	PASS
NVNT	n20	2412	-17.08	-22.31	8	PASS
NVNT	n20	2437	-13.93	-19.16	8	PASS
NVNT	n20	2462	-17.08	-22.31	8	PASS
Note: Correctio	n Factor = 10l	og(3KHz/RBW i	in measurement)=-5.23		

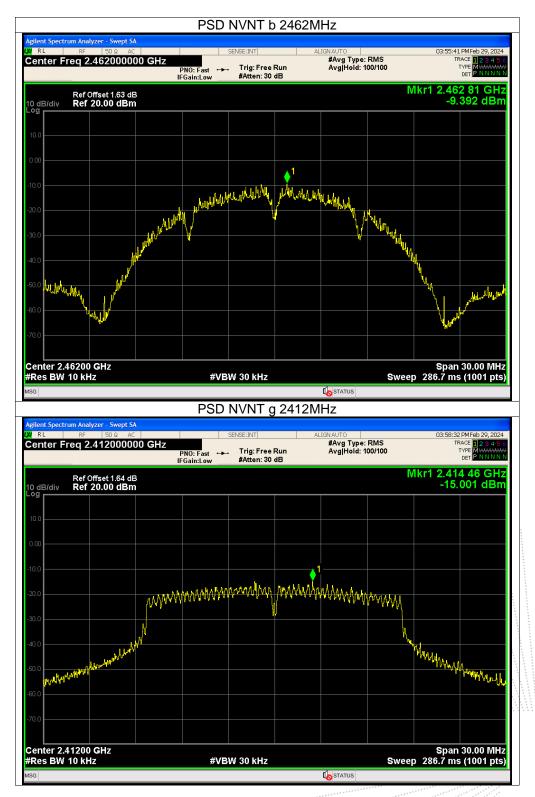
Power Spectral Density(dBm/3kHz)= Power Spectral Density(dBm/10kHz) + Correction Factor



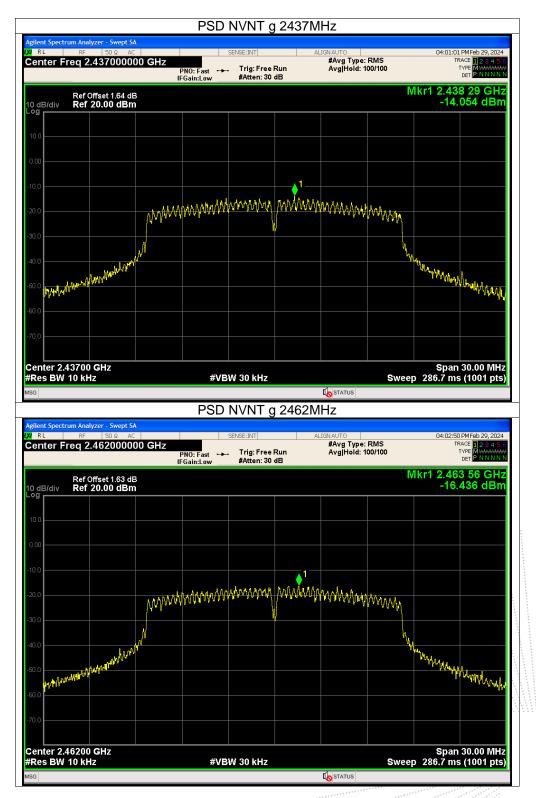




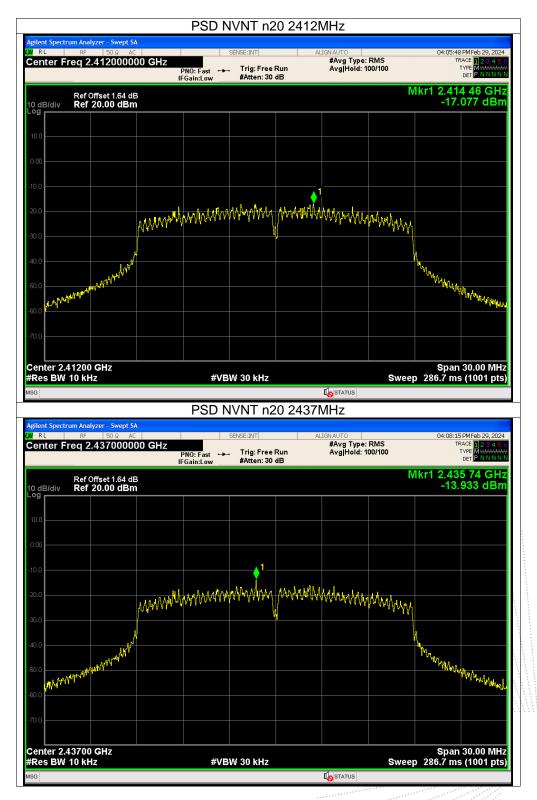




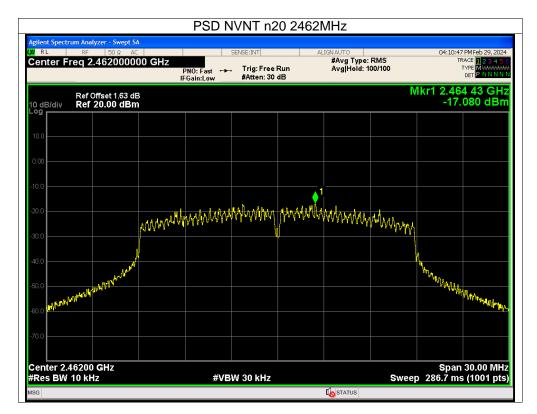












Page: 35 of 70



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

No.: BCTC/RF-EMC-005

Page: 36 of 70

Edition: B.1

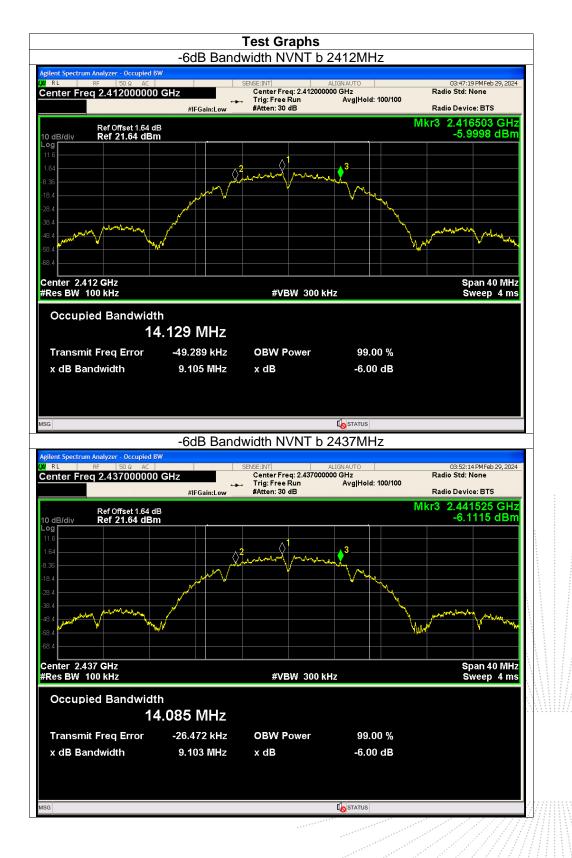


10.5 Test Result

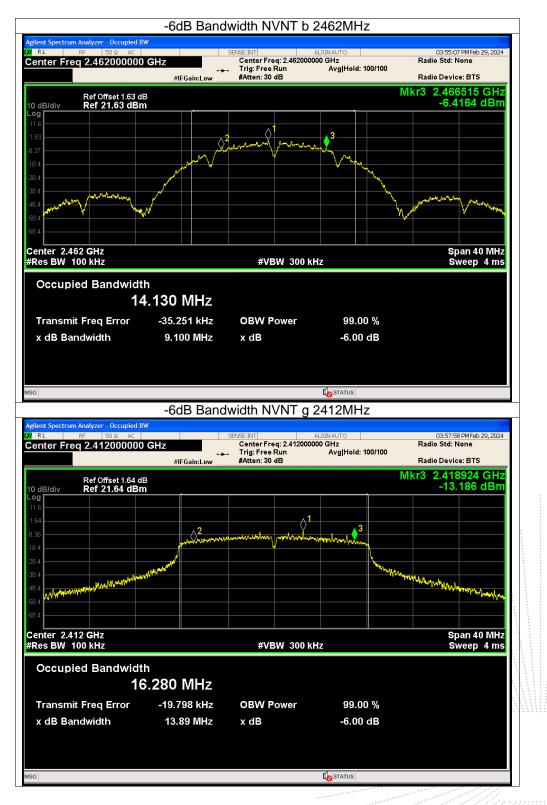
Temperature:	26 ℃		Relative Humidity	54%	
Pressure:	101KPa		Test Voltage :	est Voltage : AC 120V/60H	
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	9.105	0.5	Pass
NVNT	b	2437	9.103	0.5	Pass
NVNT	b	2462	9.1	0.5	Pass
NVNT	g	2412	13.887	0.5	Pass
NVNT	g	2437	15.069	0.5	Pass
NVNT	g	2462	13.51	0.5	Pass
NVNT	n20	2412	14.912	0.5	Pass
NVNT	n20	2437	12.741	0.5	Pass
NVNT	n20	2462	12.579	0.5	Pass



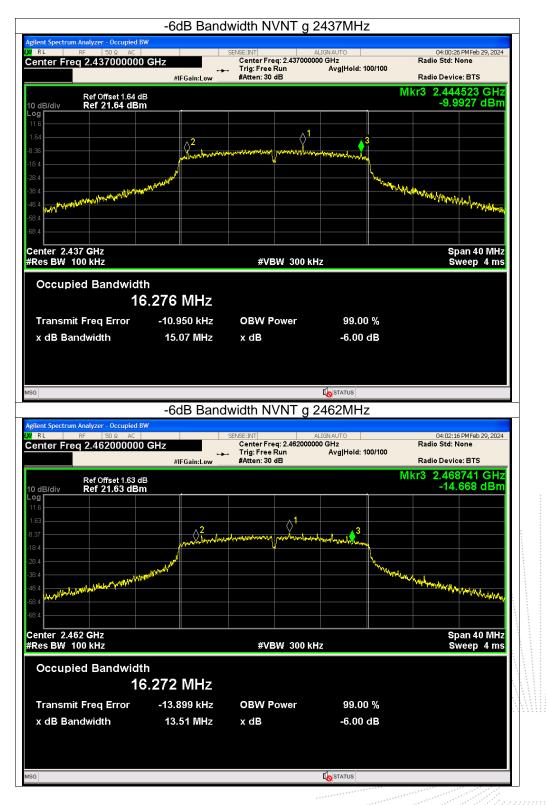




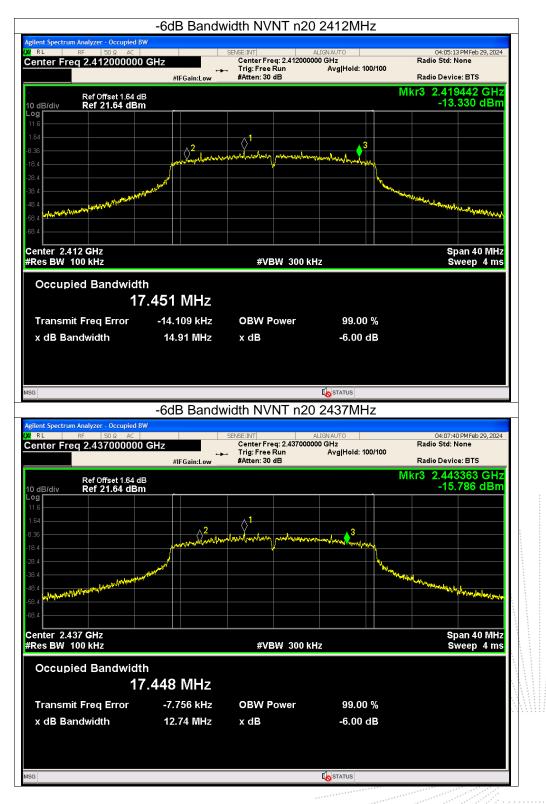














-6dB Ba	ndwidth NVNT n20 2	2462MHz	
Agilent Spectrum Analyzer - Occupied BW M RL RF 50 Ω AC Center Freq 2.462000000 GHz #IFGain:L	Center Freq: 2.462000000 Trig: Free Run	GNAUTO GHz Avg Hold: 100/100	04:10:13 PMFeb 29, 2024 Radio Std: None Radio Device: BTS
Ref Offset 1.63 dB 10 dB/div Ref 21.63 dBm		Mk	r3 2.468278 GHz -15.599 dBm
-8.37		3	
-18.4 -28.4 -38.4 -48.4			
-58.4			new grad and a start of the sta
Center 2.462 GHz #Res BW 100 kHz	#VBW 300 kHz		Span 40 MHz Sweep 4 ms
Occupied Bandwidth 17.431 MH	Z		
Transmit Freq Error -11.085 k		99.00 %	
x dB Bandwidth 12.58 MH	łz x dB	-6.00 dB	
MSG		STATUS	

Page: 42 of 70



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

11.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	10.34	30	Pass
NVNT	b	2437	10.7		Pass
NVNT	b	2462	10.43	30	Pass
NVNT	g	2412	9.02	30	Pass
NVNT	g	2437	10.25	30	Pass
NVNT	g	2462	8.7	30	Pass
NVNT	n20	2412	7.44	30	Pass
NVNT	n20	2437	8.52	30	Pass
NVNT	n20	2462	7.07	30	Pass



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..

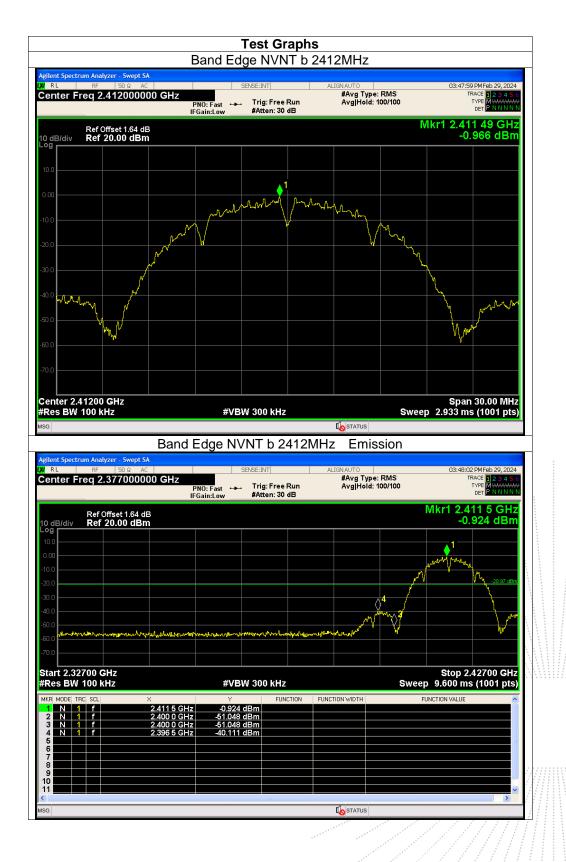
12.4 EUT Operating Conditions

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

Page: 44 of 70



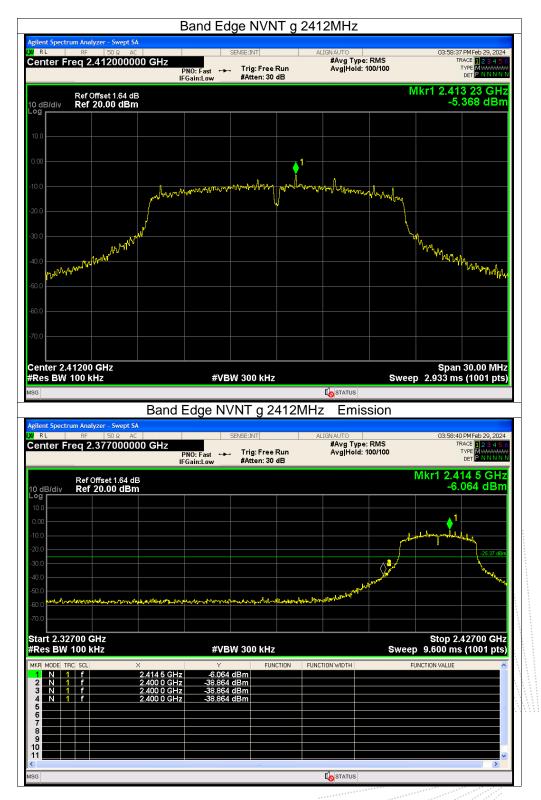
12.5 Test Result



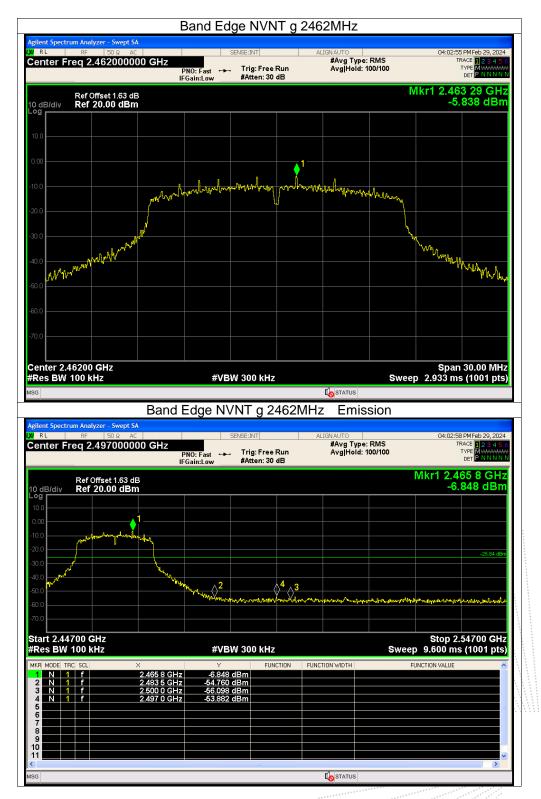














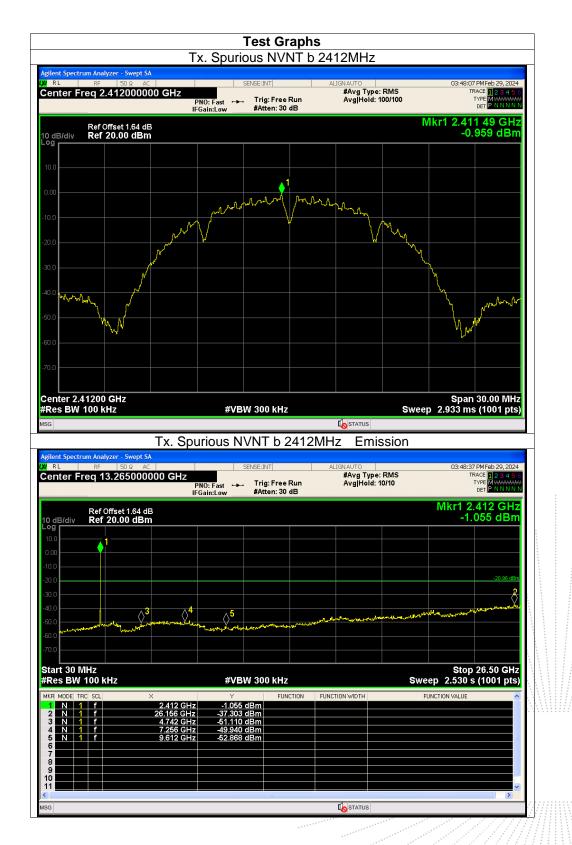












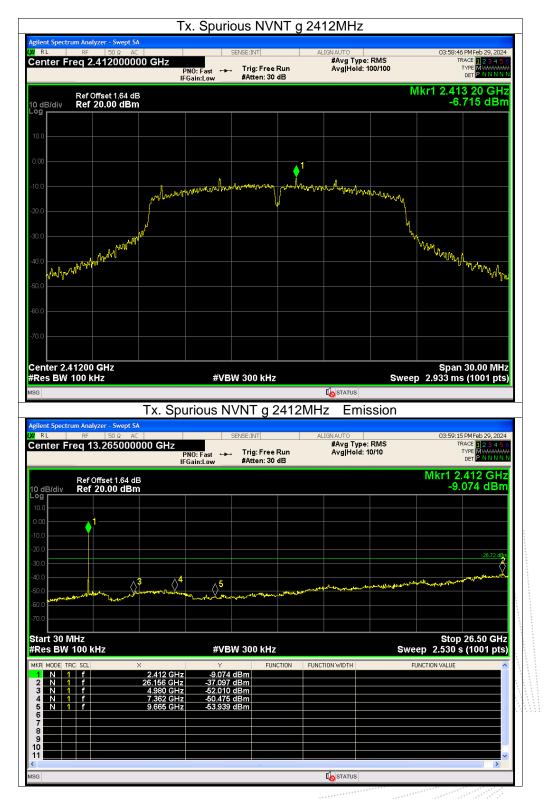












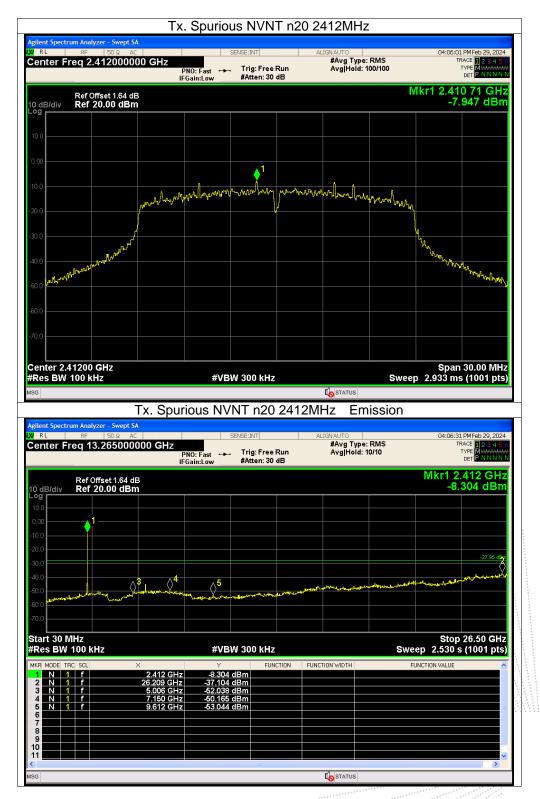




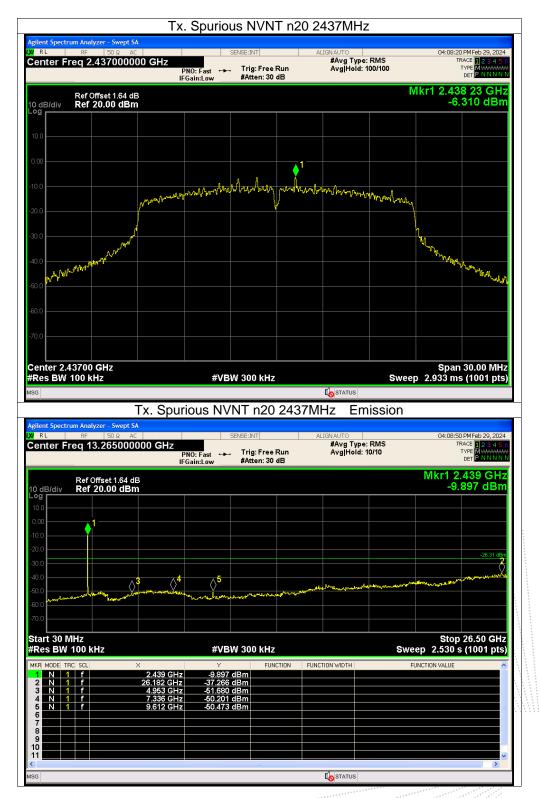




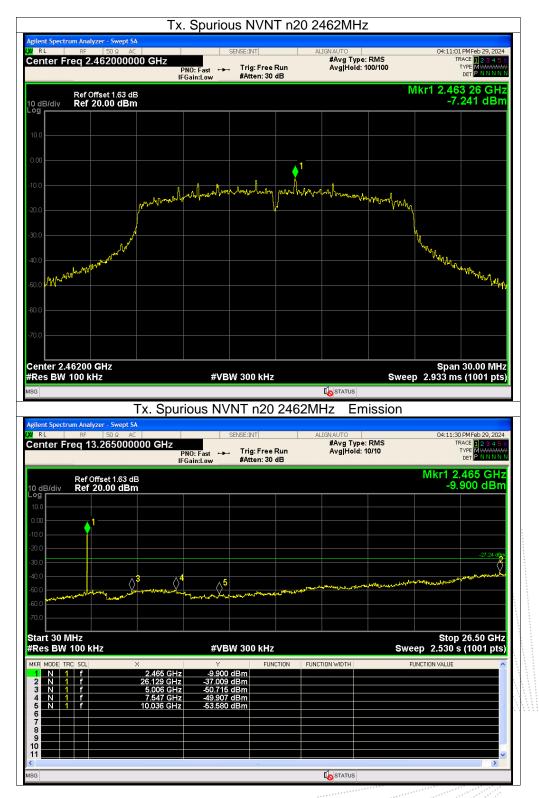














13. Duty Cycle Of Test Signal

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 = 8MHz
- 3. VBW = 8MHz,
- 4. Detector = Peak

13.4 Test Result

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	100	0	0
NVNT	b	2437	100	0	0
NVNT	b	2462	100	0	0
NVNT	g	2412	100	0	0
NVNT	g	2437	100	0	0
NVNT	g	2462	100	0	0
NVNT	n20	2412	100	0	0
NVNT	n20	2437	100	0	0
NVNT	n20	2462	100	0	0



RL RF 50 enter Freq 2.412		SENSE	INT	ALIGNAUTO #Avg Typ	e: RMS	07:25:0	03 AM Mar 01, 2024	
2. 4 12	PNO		rig: Free Run Atten: 30 dB				TRACE 123456 TYPE WWWWWW DET PNNNNN	
Ref Offset dB/div Ref 20.00						Mkr1	50.00 ms 8.81 dBm	
29 20			● 1					
00								
).0								
).0								
).0 .0								
).0								
.0								
enter 2.41200000 es BW 8 MHz) GHz	#VBW 8.	0 MHz		Sweer	o 100.0 ms	Span 0 Hz (10001 pts)	
R MODE TRC SCL	×	Y	FUNCTION	FUNCTION WIDTH		FUNCTION VALUE		
N 1 t	50.00 ms	8.81 dBm						
							~	
							>	
		uty Cycle	NVNT b	status 2437MHz				
l <mark>ent Spectrum Analyzer -</mark> 5 R L RF 50	Swept SA	SENSE	INT		De: RMS	07:25:	34 AM Mar 01, 2024	
l <mark>ent Spectrum Analyzer -</mark> 5 R L RF 50	Swept SA DQ AC 000000 GHz PN0	SENSE		2437MHz ALIGNAUTO	se: RMS		34 AM Mar 01, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW DET P. N M N N N	
lent Spectrum Analyzer - ' RL RF Sc enter Freq 2.437 Ref Offset	Swept SA 10 AC 0000000 GHz PNO IFGal 1.64 dB	SENSE D: Fast ↔ Tr	:INT	2437MHz ALIGNAUTO	be: RMS	Mkr1	34 AM Mar 01, 2024 TRACE 1 2 3 4 5 6 TYPE WWWW DET P. N.N.N.N 50.00 ms	
RL RF Spectrum Analyzer - 5 RL RF Sc enter Freq 2.437 Ref Offset dB/div Ref 20.01 9	Swept SA 10 AC 0000000 GHz PNO IFGal 1.64 dB	SENSE D: Fast ↔ Tr	:INT	2437MHz ALIGNAUTO	e: RMS	Mkr1	34 AM Mar 01, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWW DET P. N M N N N	
RL RF Spectrum Analyzer - 3 RL RF Sc enter Freq 2.437 Ref Offset dB/div Ref 20.00	Swept SA 10 AC 0000000 GHz PNO IFGal 1.64 dB	SENSE D: Fast ↔ Tr	:INT	2437MHz ALIGNAUTO	pe: RMS	Mkr1	34 AM Mar 01, 2024 TRACE 1 2 3 4 5 6 TYPE WWWW DET P. N.N.N.N 50.00 ms	
RL RF Socram Analyzer - 50 RL RF Socram Analyzer - 50 Senter Freq 2.437 Ref Offset dB/div Ref 20.00 9 00 00 00	Swept SA 10 AC 0000000 GHz PNO IFGal 1.64 dB	SENSE D: Fast ↔ Tr	:INT	2437MHz ALIGNAUTO	e: RMS	Mkr1	34 AM Mar 01, 2024 TRACE 1 2 3 4 5 6 TYPE WWWW DET P. N.N.N.N 50.00 ms	
RL RF Scentral Ref Offset	Swept SA 10 AC 0000000 GHz PNO IFGal 1.64 dB	SENSE D: Fast ↔ Tr	:INT	2437MHz ALIGNAUTO	pe: RMS	Mkr1	34 AM Mar 01, 2024 TRACE 1 2 3 4 5 6 TYPE WWWW DET P. N.N.N.N 50.00 ms	
RL RF Scenario Scenar	Swept SA 10 AC 0000000 GHz PNO IFGal 1.64 dB	SENSE D: Fast ↔ Tr	:INT	2437MHz ALIGNAUTO	e: RMS	Mkr1	34 AM Mar 01, 2024 TRACE 1 2 3 4 5 6 TYPE WWWW DET P. N.N.N.N 50.00 ms	
lent Spectrum Analyzer - ' RL RF 50 enter Freq 2.437 Ref Offset	Swept SA 10 AC 0000000 GHz PNO IFGal 1.64 dB	SENSE D: Fast ↔ Tr	:INT	2437MHz ALIGNAUTO	De: RMS	Mkr1	34 AM Mar 01, 2024 TRACE 1 2 3 4 5 6 TYPE WWWW DET P. N.N.N.N 50.00 ms	
RE Spectrum Analyzer -3 RL RF 50 enter Freq 2.437 Ref Offset dB/div Ref 20.00 9 0 0 0 0 0 0 0 0 0 0 0 0 0	Swept SA 10 AC 0000000 GHz PNO IFGal 1.64 dB	SENSE D: Fast ↔ Tr	:INT	2437MHz ALIGNAUTO	e: RMS	Mkr1	34 AM Mar 01, 2024 TRACE 1 2 3 4 5 6 TYPE WWWW DET P. N.N.N.N 50.00 ms	
Ret Spectrum Analyzer - 3 Ret Offset Ref Offset Ref Offset dB/div Ref Offset Ref Offset dB/div Ref 20.01 Image: Spectrum Analyzer - 3 Spectrum Analyzer - 3 Ref Offset dB/div Ref 20.01 Image: Spectrum Analyzer - 3 Spectrum Analyzer - 3 Offset Offset <t< td=""><td>Swept SA 100 AC OFFE 100 AC OFFE PNO IFGa 1.64 dB 0 dBm 1.64 dB 0 dBm 1.64 dB 1.64 dB 1.64</td><td>D: Fast Tr in:Low #A</td><td>:INT </td><td>2437MHz ALIGNAUTO</td><td></td><td>Mkr1</td><td>24 AM Mar 01, 2024 TRACE 023 4 5 6 TP 11 N N N N 50.00 ms 9.47 dBm</td></t<>	Swept SA 100 AC OFFE 100 AC OFFE PNO IFGa 1.64 dB 0 dBm 1.64 dB 0 dBm 1.64 dB 1.64	D: Fast Tr in:Low #A	:INT	2437MHz ALIGNAUTO		Mkr1	24 AM Mar 01, 2024 TRACE 023 4 5 6 TP 11 N N N N 50.00 ms 9.47 dBm	
RL REF Offset BL REF SC RL REF Offset BL/dlv Ref 2.437 BL/dlv Ref 2.0.01 BL/dlv Ref 20.01 BL/dlv Ref 2.0.01 BL/dlv Ref 2.0.01 BL/dlv Ref 2.0.01 BL/dlv Ref 2.437 BL/dlv Ref 2.437 BL/	Swept SA 20 AC 0 00000 GHz PNO IFGa 1.64 dB 0 dBm 0	D: Fast → Tr in:Low → XA	INT ig: Free Run ttten: 30 dB 1 1 1 1 1 1 1 1 1 1 1 1 1	2437MHz ALIGNAUTO	Swee	Mkr1	34 AMM# 01, 2024 TYPE (23 4 5 to 1 TYPE (23 4 5 to 1) TYPE (23 5 to 1)	
Rel Spectrum Analyzer - 5 Ref Offset Ref Offset Ref Offset dB/div Ref Offset BL Ref Offset dB/div Ref Offset Offset <th colspa<="" td=""><td>Swept SA 100 AC AC PNO FGal 1.64 dB 0 dBm 1.64 dB 0 dBm 1.64 dB 0 dBm 1.64 dB 0 dBm 1.64 dB 0 dBm 1.64 dB 1.64 dB</td><td>D: Fast Tr in:Low #A</td><td>INT ig: Free Run ttten: 30 dB 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>2437MHz</td><td>Swee</td><td>Mkr1</td><td>24 AM Mar 01, 2024 TRACE 023 4 5 6 TP 11 N N N N 50.00 ms 9.47 dBm</td></th>	<td>Swept SA 100 AC AC PNO FGal 1.64 dB 0 dBm 1.64 dB 0 dBm 1.64 dB 0 dBm 1.64 dB 0 dBm 1.64 dB 0 dBm 1.64 dB 1.64 dB</td> <td>D: Fast Tr in:Low #A</td> <td>INT ig: Free Run ttten: 30 dB 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>2437MHz</td> <td>Swee</td> <td>Mkr1</td> <td>24 AM Mar 01, 2024 TRACE 023 4 5 6 TP 11 N N N N 50.00 ms 9.47 dBm</td>	Swept SA 100 AC AC PNO FGal 1.64 dB 0 dBm 1.64 dB 0 dBm 1.64 dB 0 dBm 1.64 dB 0 dBm 1.64 dB 0 dBm 1.64 dB 1.64 dB	D: Fast Tr in:Low #A	INT ig: Free Run ttten: 30 dB 1 1 1 1 1 1 1 1 1 1 1 1 1	2437MHz	Swee	Mkr1	24 AM Mar 01, 2024 TRACE 023 4 5 6 TP 11 N N N N 50.00 ms 9.47 dBm
RL Ref Offset Ref Offset GE Ref Offset GE Colspan="2">GE GE Colspan="2">GE	Swept SA 20 AC 0 00000 GHz PNO IFGa 1.64 dB 0 dBm 0	D: Fast → Tr in:Low → XA	INT ig: Free Run ttten: 30 dB 1 1 1 1 1 1 1 1 1 1 1 1 1	2437MHz	Swee	Mkr1	24 AM Mar 01, 2024 TRACE 023 4 5 6 TP 11 N N N N 50.00 ms 9.47 dBm	
Rel Spectrum Analyzer - 5 Rel Offset Ref Offset R Mone Tec Sci R Mone Tec Sci N 1 N 1	Swept SA 20 AC 0 00000 GHz PNO IFGa 1.64 dB 0 dBm 0	D: Fast → Tr in:Low → XA	INT ig: Free Run ttten: 30 dB 1 1 1 1 1 1 1 1 1 1 1 1 1	2437MHz	Swee	Mkr1	24 AM Mar 01, 2024 TRACE 023 4 5 6 TP 11 N N N N 50.00 ms 9.47 dBm	



nter Freq 2.4620	PNO		: Free Run	ALIGNAUTO #Avg Type	: RMS		2 AM Mar 01, 2024 RACE 123456 TYPE WWWWWWW DET PNNNNN
	IFGai	n:Low #Atto	en:30 dB			Mkr1	50.00 ms
Ref Offset 1 B/div Ref 20.00	1.63 dB) dBm						3.84 dBm
			<u> </u>			<u> </u>	
D							
,							
)							
nter 2.462000000 s BW 8 MHz	GHz	#VBW 8.0	MHz		Sweep	100.0 ms	Span 0 Hz (10001 pts)
MODE TRC SCL	× 50.00 ms	∀ 8.84 dBm	FUNCTION	FUNCTION WIDTH	F	UNCTION VALUE	~
							=
			ш				>
				-4			
		ity Cycle N	IVNT g				
nt Spectrum Analyzer - S RL RF 50	wept SA Ω AC			2412MHz ALIGN AUTO		07:28:5	2 AM Mar 01, 2024
L RF 50	wept SA Ω AC DO0000 GHz PN0	SENSE:IN		2412MHz	:: RMS	07:28:5 T	2 AM Mar 01, 2024 RACE 1 2 3 4 5 6 TYPE WWWWWWW DET P N N N N N
nter Freq 2.4120 Ref Offset 1	wept SA Q AC D000000 GHz PNO IFGai 1.64 dB	SENSE:IN	T : Free Run	2412MHz ALIGN AUTO	: RMS	Mkr1	2 AMMar01, 2024 RACE 11 2 3 4 5 6 DET PININNIN S0.00 ms 5.81 dBm
RL RF 50 nter Freq 2.4120 Ref Offset 1 IB/div Ref 20.00	wept SA Q AC D000000 GHz PNO IFGai 1.64 dB	SENSE:IN	T : Free Run	2412MHz ALIGN AUTO	: RMS	Mkr1	RACE 123456 TYPE WWWWWWW DET PNNNNN 50.00 ms
RL RF 50 nter Freq 2.4120 Ref Offset 1	wept SA Q AC D000000 GHz PNO IFGai 1.64 dB	SENSE:IN	T : Free Run en: 30 dB	2412MHz ALIGN AUTO	: RMS	Mkr1	RACE 123456 TYPE WWWWWWW DET PNNNNN 50.00 ms
RE Freq 2.4120 Ref Offset 1 B/div Ref 20.00	wept SA Q AC D000000 GHz PNO IFGai 1.64 dB	SENSE:IN	T : Free Run en: 30 dB	2412MHz ALIGN AUTO	: RMS	Mkr1	RACE 123456 TYPE WWWWWWW DET PNNNNN 50.00 ms
Ref Offset 1 Ref Offset 1 B/div Ref 20.00	wept SA Q AC D000000 GHz PNO IFGai 1.64 dB	SENSE:IN	T : Free Run en: 30 dB	2412MHz ALIGN AUTO		Mkr1	RACE 123456 TYPE WWWWWWW DET PNNNNN 50.00 ms
Ref Offset 1 Ref Offset 1 IB/div Ref 20.00	wept SA Q AC D000000 GHz PNO IFGai 1.64 dB	SENSE:IN	T : Free Run en: 30 dB	2412MHz ALIGN AUTO	: RMS	Mkr1	RACE 123456 TYPE WWWWWWW DET PNNNNN 50.00 ms
Ref Offset 1 Ref 20.000	wept SA Q AC D000000 GHz PNO IFGai 1.64 dB	SENSE:IN	T : Free Run en: 30 dB	2412MHz ALIGN AUTO		Mkr1	RACE 123456 TYPE WWWWWWW DET PNNNNN 50.00 ms
Ref Offset 1 Ref 20.000	wept SA Q AC D000000 GHz PNO IFGai 1.64 dB	SENSE:IN	T : Free Run en: 30 dB	2412MHz ALIGN AUTO		Mkr1	RACE 123456 TYPE WWWWWWW DET PNNNNN 50.00 ms
RE Freq 2.4120 Ref Offset 1 B/div Ref 20.00	wept SA Q AC D000000 GHz PNO IFGai 1.64 dB	SENSE:IN	T : Free Run en: 30 dB	2412MHz ALIGN AUTO		Mkr1	RACE 123456 TYPE WWWWWWW DET PNNNNN 50.00 ms
Ref Offset 1 B/div Ref 20.00	wept SA Q AC PNO PNO I.64 dB 0 dBm I.64 dB I.64	Sense:IN Fast Trig n:Low #Att	T : Free Run en: 30 dB unt en: 30 dB	2412MHz ALIGN AUTO			Span 0 Hz
Ref Offset 1 Ref Offset 1 B/div Ref 20.00 a	wept SA Q AC PNO PNO I.64 dB 0 dBm I.64 dB I.64 d I.64 d	SENSE:IN	T : Free Run en: 30 dB unt en: 30 dB	2412MHz ALIGN AUTO	Sweep		AACE 12 3 4 5 6 DET 12 3 4 5 6 DET 21 2 3 4 5 6 DET 21 2 3 5 6 DET 21 2 5 6 7 5 6 DET 21 2 5 6 7 5 6 DET 21 2 5 6 7 5 6 7 5 6 7 5 6 7 5 7 5 7 5 7 5 7
Ref S0 Ref Offset 1 Ref 20.00 Ref Offset 1 Ref 20.00 Ref 20.00 Ref 20.00 <tr< td=""><td>Wept SA Provide the second secon</td><td>SENSE:IN Fast Trig #Att telefinetevel #WBW 8.0</td><td>T Free Run en: 30 dB</td><td>2412MHz</td><td>Sweep</td><td>Mkr1</td><td>Span 0 Hz</td></tr<>	Wept SA Provide the second secon	SENSE:IN Fast Trig #Att telefinetevel #WBW 8.0	T Free Run en: 30 dB	2412MHz	Sweep	Mkr1	Span 0 Hz
Ref S0 nter Freq 2.4120 Ref Offset 1 IB/div Ref 20.00	x epi 5A Q AC PRO D00000 GHz PRO I.64 dB 0 dBm Control of the second seco	SENSE:IN Fast →→ Trig n:Low #Att Helendelse and another Notest and the set Notest and the set Notes	T Free Run en: 30 dB	2412MHz	Sweep	Mkr1	Span 0 Hz
Ref S0 nter Freq 2.4120 Ref Offset 1 Ref Offset 1 Ref 20.00 and characterized	x epi 5A Q AC PRO D00000 GHz PRO I.64 dB 0 dBm Control of the second seco	SENSE:IN Fast →→ Trig n:Low #Att Helendelse and another Notest and the set Notest and the set Notes	T Free Run en: 30 dB	2412MHz	Sweep	Mkr1	Span 0 Hz
Ref S0 nter Freq 2.4120 Ref Offset 1 IB/div Ref 20.00	x epi 5A Q AC PRO D00000 GHz PRO I.64 dB 0 dBm Control of the second seco	SENSE:IN Fast →→ Trig n:Low #Att Helendelse and another Notest and the set Notest and the set Notes	T Free Run en: 30 dB	2412MHz ALIGNAUTO #Avg Type	Sweep	Mkr1	Span 0 Hz



ent Spectrum Analyzer - Sv R L RF 50 S	wept SA Ω AC	SENSE:IN	т	ALIGN AUTO		07-00-00	AM Mar 01, 2024
nter Freq 2.4370	00000 GHz	Tala	: Free Run	#Avg Typ		U7:29:20 TR	ACE 123456 TYPE WWWWWWW DET PNNNNN
	PNO: IFGair	ruat -	en:30 dB				DET PNNNNN
Ref Offset 1						Mkr1 (50.00 ms
dB/div Ref 20.00	dBm		1			•	.29 dBm
C a pair a strange of a large bar							
)							
							On on A Un
nter 2.437000000 s BW 8 MHz	GHZ	#VBW 8.0	MHz		Sweep	100.0 ms (Span 0 Hz (10001 pts)
MODE TRC SCL	×	Y C OO JIDw	FUNCTION	FUNCTION WIDTH	FL	JNCTION VALUE	<u> </u>
N 1 t	50.00 ms	6.29 dBm					
				STATUS			
	Du	ty Cycle N	JVNT a				
		<i>, ,</i>	witti g				
RE 50 9	wept SA Ω AC	SENSE:IN		ALIGN AUTO		07:29:59	AM Mar 01, 2024
RE 50 9	wept SA Ω AC 0 000000 GHz PNO:	SENSE:IN Fast ↔ Trig	T : Free Run			07:29:59 TR 1	AM Mar 01, 2024 ACE 123456 TYPE WWWWWWW
nter Freq 2.4620	wept SA Ω AC 000000 GHz PNO: IFGair	SENSE:IN Fast ↔ Trig	т	ALIGN AUTO		TR T	ACE 123456 TYPE WAAAAAAAA DET PNNNNN
RL RF 503 nter Freq 2.4620 Ref Offset 1 IB/div Ref 20.00	wept SA Ω AC 1000000 GHz PNO: IFGain 1.63 dB	SENSE:IN Fast ↔ Trig	T : Free Run	ALIGN AUTO		TR T Mkr1 {	AM Mar 01, 2024 IAACE 12 3 4 5 6 ITYPE WANNANN DET P NINNIN 50.00 ms .06 dBm
RL RF 50 4 nter Freq 2.4620 Ref Offset 1 IB/div Ref 20.00	wept SA Ω AC 1000000 GHz PN0: IFGain I.63 dB dBm	SENSE:IN Fast -→- Trig :Low #Atto	T : Free Run en: 30 dB	ALIGNAUTO #Avg Typ	e: RMS	۳۳ Mkr1 { 7	ACE 123456 TYPE WWWWWW DET PNNNNN
RE RE 150 (nter Freq 2.4620 Ref Offset 1 IB/div Ref 20.00	wept SA Ω AC 1000000 GHz PNO: IFGain 1.63 dB	SENSE:IN Fast -→- Trig :Low #Atto	T : Free Run en: 30 dB	ALIGNAUTO #Avg Typ	e: RMS	TR T Mkr1 {	ACE 123456 TYPE WWWWWW DET PNNNNN
RE Freq 2.4620 Ref Offset 1 B/div Ref 20.00	wept 5A Ω AC 1000000 GHz IFGain I.63 dB dBm	Fast →→ Trig Filow #Att	T : Free Run en: 30 dB	ALIGNAUTO #Avg Typ	e: RMS	۳۳ Mkr1 { 7	ACE 123456 TYPE WWWWWW DET PNNNNN
Ref Offset 1 Ref 20.00 Ref 20.00	wept 5A Ω AC 1000000 GHz IFGain I.63 dB dBm	Fast →→ Trig Filow #Att	T : Free Run en: 30 dB	ALIGNAUTO #Avg Typ	e: RMS	۳۳ Mkr1 { 7	ACE 123456 TYPE WWWWWW DET PNNNNN
Ref Offset 1 Ref Offset 1 IB/div Ref 20.00	wept 5A Ω AC 1000000 GHz IFGain I.63 dB dBm	Fast →→ Trig Filow #Att	T : Free Run en: 30 dB	ALIGNAUTO #Avg Typ	e: RMS	۳۳ Mkr1 { 7	ACE 123456 TYPE WWWWWW DET PNNNNN
Ref Offset 1 Ref 20.00 Ref 20.00	wept 5A Ω AC 1000000 GHz IFGain I.63 dB dBm	Fast →→ Trig Filow #Att	T : Free Run en: 30 dB	ALIGNAUTO #Avg Typ	e: RMS	۳۳ Mkr1 { 7	ACE 123456 TYPE WWWWWW DET PNNNNN
Ref Offset 1 Ref 20.00 Ref 20.00	wept 5A Ω AC 1000000 GHz IFGain I.63 dB dBm	Fast →→ Trig Filow #Att	T : Free Run en: 30 dB	ALIGNAUTO #Avg Typ	e: RMS	۳۳ Mkr1 { 7	ACE 123456 TYPE WWWWWW DET PNNNNN
Ref Offset 1 Ref 20.00 Ref	wept 5A Ω AC 1000000 GHz IFGain I.63 dB dBm	Fast →→ Trig Filow #Att	T : Free Run en: 30 dB	ALIGNAUTO #Avg Typ	e: RMS	۳۳ Mkr1 { 7	ACE 123456 TYPE WWWWWW DET PNNNNN
Ref Offset 1	wept SA Q AC PRO- PO00000 GHz PNO: IFGain I.63 dB dBm AC PRO- PNO: IFGain PNO: IFGain PNO: IFGain PNO: IFGain IFGain I.63 dB IFGAIN	Fast →→ Trig Filow #Att	T : Free Run en: 30 dB	ALIGNAUTO #Avg Typ	e: RMS	TR TR 7 7	ACE 123456 Det PINININ Det PINININ 50.00 ms 7.06 dBm
Ref 50 a Inter Freq 2.4620 Ref Offset 1 IB/div Ref 20.00 IB/div IB/div	wept SA Q AC PRO- PO00000 GHz PNO: IFGain I.63 dB dBm AC PRO- PNO: IFGain PNO: IFGain PNO: IFGain PNO: IFGain IFGain I.63 dB IFGAIN	Fast →→ Trig Filow #Att	T : Free Run en: 30 dB	ALIGNAUTO #Avg Typ	e: RMS	TR TR 7 7	ACE 112 3 4 5 6 DET 2 NINNIN 50.00 ms .06 dBm
Ref S03 Inter Freq 2.4620 Ref Offset 1 IB/div Ref 20.00 IB/div Ref 20.00 Image: Solid Stream of Sol	Wept SA 22 AC PROFESSION OF ACTION OF ACTIONO	Fast → Trig :Low #Att	T : Free Run en: 30 dB	ALIGNAUTO #Avg Typ	Sweep	TR Mkr1 4 7	ACE 112 3 4 5 6 DET 2 NINNIN 50.00 ms .06 dBm
Ref GO Ref Offset 1 B/div Ref Offset 1 B/div Ref Offset 1 B/div Ref Offset 1 B/div Ref 20.00	wept SA Q AC PRO- IOOOOOO GHZ PNO: IFGair I.63 dB dBm Constant of the second of	Fast → Trig ::Low #Att:	T : Free Run en: 30 dB		Sweep	TR Mkr1 (7 100.0 ms (ACE 112 3 4 5 6 DET 2 NINNIN 50.00 ms .06 dBm
Ref GO Ref Offset 1 B// Offset 20.00 IB/div Ref 20.00 IB/div IB/div IB/div IB/div IB/div Ref 20.00 IB/div IB/div IB/div IB/div	Wept SA 22 AC PROFESSION OF ACTION OF ACTIONO	Fast → Trig :Low #Att	T : Free Run en: 30 dB		Sweep	TR Mkr1 (7 100.0 ms (ACE 112 3 4 5 6 DET 2 NINNIN 50.00 ms .06 dBm
Ref GO Ref Offset 1 B// Offset 20.00 IB/div Ref 20.00 IB/div IB/div IB/div IB/div IB/div Ref 20.00 IB/div IB/div IB/div IB/div	Wept SA 22 AC PROFESSION OF ACTION OF ACTIONO	Fast → Trig :Low #Att	T : Free Run en: 30 dB		Sweep	TR Mkr1 (7 100.0 ms (ACE 112 3 4 5 6 DET 2 NINNIN 50.00 ms .06 dBm
Ref Offset 1 Ref Offset 1 Ref 20.00 Ref 2	Wept SA 22 AC PROFESSION OF ACTION OF ACTIONO	Fast → Trig :Low #Att	T : Free Run en: 30 dB		Sweep	TR Mkr1 (7 100.0 ms (ACE 112 3 4 5 6 DET 2 NINNIN 50.00 ms .06 dBm
Ref GO Ref Offset 1 B// Offset 20.00 IB/div Ref 20.00 IB/div IB/div IB/div IB/div IB/div Ref 20.00 IB/div IB/div IB/div IB/div	Wept SA 22 AC PROFESSION OF ACTION OF ACTIONO	Fast → Trig :Low #Att	T : Free Run en: 30 dB		Sweep	TR Mkr1 (7 100.0 ms (ACE 112 3 4 5 6 DET 2 NINNIN 50.00 ms .06 dBm



L RF 50 Ω nter Freq 2.412000	0000 GHz	SENSE:IN		ALIGN AUTO #Avg Typ	e: RMS	07:30:59 AM Mar 01, 20 TRACE 1 2 3 4
	PNO: IFGain		: Free Run en: 30 dB			TYPE WMMMM DET P N N N
Ref Offset 1.64	4_dB					Mkr1 50.00 m
B/div Ref 20.00 dl	Bm		1			5.51 dBi
	de la serie de la construir de la const			n an	ka ti ti biti ya ti ti ta di ti	
ter 2.412000000 GH	Hz					Span 0 F
BW 8 MHz		#VBW 8.0				00.0 ms (10001 pt
MODE TRC SCL	× 50.00 ms	⊻ 5.51 dBm	FUNCTION	FUNCTION WIDTH	FUN	CTION VALUE
			Ш	· · · · ·		>
				I STATUS		
	D (
t Caratana Arabara Cura		Cycle N	/NT n2(0 2437MHz	Z	
t Spectrum Analyzer - Swep - RF 50 Ω	ot SA			0 2437MHz		07:31:51 AM Mar 01, 20
	AC DOOD GHZ PNO:	SENSE:IN Fast ↔ Trig		0 2437MHz		07:31:51 AM Mar 01, 20 TRACE 1 2 3 4 TYPE WWWWW DET P N N N
ter Freq 2.437000	AC AC PNO: IFGain	SENSE:IN Fast ↔ Trig	T : Free Run	0 2437MHz		TRACE 1234 TYPE WWWWW DET P N N N Mkr1 50.00 m
ter Freq 2.437000	AC AC DOOO GHZ IFGain 4 dB	SENSE:IN Fast ↔ Trig	⊤ : Free Run en: 30 dB	0 2437MHz		TRACE 1234 TYPE WWWWW DET PNNN
Ref Offset 1.64 Ref Offset 1.64 Bidiv Ref 20.00 dB	AC AC PNO: AC PNO: IFGain 4 dB Bm	Fast Trig	T : Free Run en: 30 dB	0 2437MHz Alignauto #Avg typ		TRACE 12 3 4 TYPE WWWWW DET P NNN Mkr1 50.00 m 5.17 dBi
Ref Offset 1.64 Ref Offset 1.64 Bidiv Ref 20.00 dB	AC PRO: D0000 GHz PRO: IFGain 4 dB Bm	Fast Trig	T : Free Run en: 30 dB	0 2437MHz Alignauto #Avg typ	e: RMS	TRACE [] 2 3 4 TYPE WWWW DET PININ Mkr1 50.00 m 5.17 dBi
Ref Offset 1.64 Ref Offset 1.64 Bidiv Ref 20.00 dB	AC AC PNO: AC PNO: IFGain 4 dB Bm	Fast Trig	T : Free Run en: 30 dB	0 2437MHz Alignauto #Avg typ	e: RMS	TRACE [] 2 3 4 TYPE WWWW DET PININ Mkr1 50.00 m 5.17 dB
Ref Offset 1.64 Ref Offset 1.64 Bidiv Ref 20.00 dB	AC AC PNO: AC PNO: IFGain 4 dB Bm	Fast Trig	T : Free Run en: 30 dB	0 2437MHz Alignauto #Avg typ	e: RMS	TRACE [] 2 3 4 TYPE WWWW DET PININ Mkr1 50.00 m 5.17 dB
Ref Offset 1.64 Ref Offset 1.64 Bidiv Ref 20.00 dB	AC AC PNO: AC PNO: IFGain 4 dB Bm	Fast Trig	T : Free Run en: 30 dB	0 2437MHz Alignauto #Avg typ	e: RMS	TRACE [] 2 3 4 TYPE WWWW DET PININ Mkr1 50.00 m 5.17 dB
Ref Offset 1.64 Ref Offset 1.64 Bidiv Ref 20.00 dB	AC AC PNO: AC PNO: IFGain 4 dB Bm	Fast Trig	T : Free Run en: 30 dB	0 2437MHz Alignauto #Avg typ	e: RMS	TRACE [] 2 3 4 TYPE WWWW DET PININ Mkr1 50.00 m 5.17 dB
RF 50 Ω ter Freq 2.437000 Ref Offset 1.64 S/div Ref 20.00 db Loss Agentieron and Marcel Ref 20.00 db	AC AC PNO: AC PNO: IFGain 4 dB Bm	Fast Trig	T : Free Run en: 30 dB	0 2437MHz Alignauto #Avg typ	e: RMS	TRACE [] 2 3 4 TYPE WWWW DET PININ Mkr1 50.00 m 5.17 dB
Ref Offset 1.64	ac A AC D0000 GHz PNO: IFGain 4 dB Bm	Fast Trig	T : Free Run en: 30 dB	0 2437MHz Alignauto #Avg typ	e: RMS	TRACE 12 3 4 TYPE WYNAWA DET PINNN Mkr1 50.00 m 5.17 dB1
Ref Offset 1.64 3/div Ref 20.00 dt	ac A AC D0000 GHz PNO: IFGain 4 dB Bm	Fast Trig	T : Free Run en: 30 dB 1 - Non Alenna MHz	0 2437MHz Alignauto #Avg typ	e: RMS	TRACE 2 3 4 TYPE WINNIN Mkr1 50.00 m 5.17 dB1 Mkr1 50.00 m 5.17 dB1 Mkr1 50.00 m 5.17 dB1 Mkr1 50.00 m 5.17 dB1 100.0 ms (10001 pt
Ref 50 Ω ter Freq 2.437000 Ref Offset 1.54 3/div Ref 20.00 dB b/div State	AC AC IFGain AC IFGain 4 dB Bm 4 dB AC	SENSE: IN Fast Trig :Low #Att.	T : Free Run en: 30 dB	0 2437MHz Alignauto #Avg typ	e: RMS	TRACE 12 3 4 TYPE WINNIN DET PINNI Mkr1 50.00 m 5.17 dB1
Ref Offset 1.64	pt SA AC AC AC PNO: IFGain 4 dB Bm 1 dr (Construction) 1 dr (Co	Fast Trig :Low #Att	T : Free Run en: 30 dB 1 - Non Alenna MHz	0 2437MHz	e: RMS	TRACE 2 3 4 TYPE WINNIN Mkr1 50.00 m 5.17 dB1 Mkr1 50.00 m 5.17 dB1 Mkr1 50.00 m 5.17 dB1 Mkr1 50.00 m 5.17 dB1 100.0 ms (10001 pt
R5 50 Ω ter Freq 2.437000 Ref Offset 1.54 B/div Ref 2000 db B/div Ref 2000 db Ler Alage Blegebrack B Ler 2.4370000000 GF BW 8 MHz MODE TRC SCL MODE TRC SCL	AC AC IFGain AC IFGain 4 dB Bm 4 dB AC	SENSE: IN Fast Trig :Low #Att.	T : Free Run en: 30 dB 1 - Non Alenna MHz	0 2437MHz	e: RMS	TRACE 2 3 4 TYPE WINNIN Mkr1 50.00 m 5.17 dB1 Mkr1 50.00 m 5.17 dB1 Mkr1 50.00 m 5.17 dB1 Mkr1 50.00 m 5.17 dB1 100.0 ms (10001 pt
R5 50 Ω ter Freq 2.437000 Ref Offset 1.54 B/div Ref 2000 db B/div Ref 2000 db Ler Alage Blegebrack B Ler 2.4370000000 GF BW 8 MHz MODE TRC SCL MODE TRC SCL	AC AC IFGain AC IFGain 4 dB Bm 4 dB AC	SENSE: IN Fast Trig :Low #Att.	T : Free Run en: 30 dB 1 - Non Alenna MHz	0 2437MHz	e: RMS	TRACE 2 3 4 TYPE WINNIN Mkr1 50.00 m 5.17 dB1 Mkr1 50.00 m 5.17 dB1 Mkr1 50.00 m 5.17 dB1 Mkr1 50.00 m 5.17 dB1 100.0 ms (10001 pt
R5 50 Ω ter Freq 2.437000 Ref Offset 1.54 B/div Ref 2000 db B/div Ref 2000 db Ler Alage Blegebrack B Ler 2.4370000000 GF BW 8 MHz MODE TRC SCL MODE TRC SCL	AC AC IFGain AC IFGain 4 dB Bm 4 dB AC	SENSE: IN Fast Trig :Low #Att.	T : Free Run en: 30 dB 1 - Non Alenna MHz	0 2437MHz	e: RMS	TRACE 2 3 4 TYPE WINNIN Mkr1 50.00 m 5.17 dB1 Mkr1 50.00 m 5.17 dB1 Mkr1 50.00 m 5.17 dB1 Mkr1 50.00 m 5.17 dB1 100.0 ms (10001 pt



		Duty Cycle N	VNT n20) 2462MHz			
URL	um Analyzer - Swept SA RF 50 Ω AC req 2.462000000 GHz		NT g: Free Run ten: 30 dB	ALIGNAUTO #Avg Type	RMS	Т	7 AM Mar 01, 2024 RACE 1 2 3 4 5 TYPE DET PNNNN
I0 dB/div	Ref Offset 1.63 dB Ref 20.00 dBm		1			Mkr1 (50.00 ms 5.39 dBm
10.0 0.00 10.0	te bleg genere de af te ble de se per de la fanta ten de la genere de se per se de se per se de se per se de s La travectori de la persona de la de la segunda de genera de se per se consecue de se persona de se persona de s La de la seconda de la seconda de la seconda de genera de seconda de seconda de seconda de seconda de seconda d	je verset die Definition of die new geste Gestellen de sonders date die Bernen Gestellen die New York die Bernen die Stellen verset die Stellen verset die Stellen verset die Stellen die Stel Gestellen die Stellen die St		dan dan serie dan karang bahar dan karang bahar dan serie dan serie dan serie dan serie dan serie dan serie dan Serie dan serie dan s			in starting a start of a lifet a start
20.0							
40.0 50.0 60.0							
70.0	462000000 GHz						Span 0 Hz
Res BW 8		#VBW 8.0) MHz		Sweep	100.0 ms	(10001 pts
MKR MODE TF 1 N 1 2 3 4 5 6 7 8 9 10 11		ms 5.39 dBm	FUNCTION	FUNCTION WIDTH	FL	UNCTION VALUE	
<			1111				
SG				I STATUS			

Page: 65 of 70



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.

14.2 Test Result

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

No.: BCTC/RF-EMC-005

Page: 66 of 70



15. EUT Photographs

EUT Photo 1



EUT Photo 2



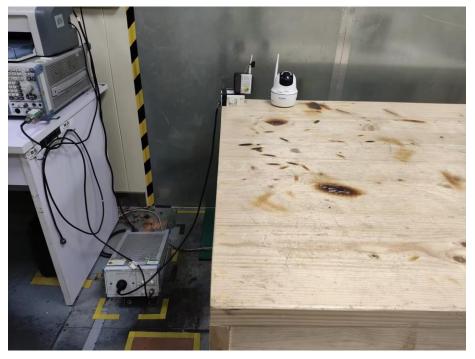
NOTE: Appendix-Photographs Of EUT Constructional Details

No.: BCTC/RF-EMC-005

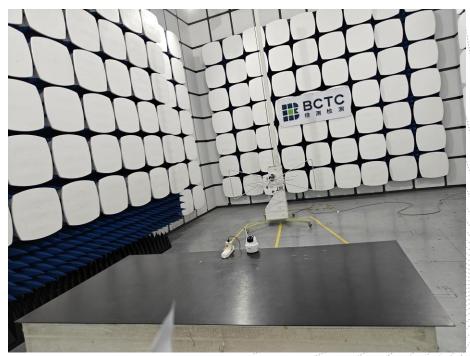


16. EUT Test Setup Photographs

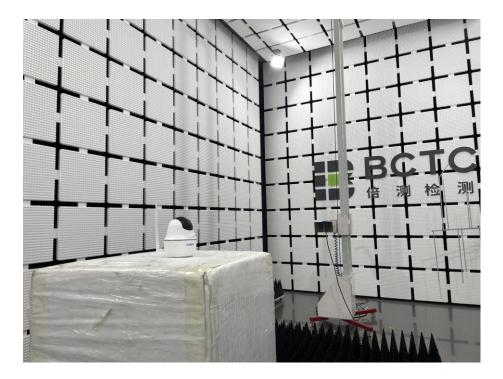
Conducted emissions Photo



Radiated Measurement Photos







No.: BCTC/RF-EMC-005

Page: 69 of 70

Edition: B.1



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

8. 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:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

Website: http://www.chnbctc.com

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

***** END ****

No.: BCTC/RF-EMC-005

Page: 70 of 70