



# CFR 47 FCC PART 15 SUBPART C ISED RSS-210 ISSUE 10

#### **TEST REPORT**

For

**TOY Transmitter** 

**MODEL NUMBER: 41H3** 

REPORT NUMBER: 4790902500-RF-1

ISSUE DATE: June 29, 2023

**FCC ID: G6D41H3** 

IC: 9650A-41H3

Prepared for

NEW BRIGHT INDUSTRIAL CO., LTD 9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD, KOWLOON BAY, KOWLOON, HONG KONG.

Prepared by

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.



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# **Revision History**

Rev.	Issue Date	Revisions	Revised By
V0	June 29, 2023	Initial Issue	



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# **Summary of Test Results**

Summary of Test Results					
Clause	Test Items	FCC/ISED Rules	Test Results		
1	20dB Bandwidth and 99% Occupied Bandwidth	CFR 47 FCC §15.215 (c) ISED RSS-Gen Clause 6.7	Pass		
2	Radiated Emission	CFR 47 FCC §15.249 (a)(d)(e) ISED RSS-210 Annex B B.10 CFR 47 FCC §15.205 and §15.209 RSS-GEN Clause 8.9 RSS-GEN Clause 8.10	Pass		
3	Conducted Emission Test for AC Power Port	CFR 47 FCC §15.207 RSS-GEN Clause 8.8	Not Applicable (Note 3)		
4	Antenna Requirement	CFR 47 FCC §15.203 ISED RSS-Gen Clause 6.8	Pass		

Note 1: This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

Note 2: The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C, ISED RSS-210 ISSUE 10 > when <Accuracy Method> decision rule is applied.

Note 3: The EUT was powered by battery and can't be charged.



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# 1. ATTESTATION OF TEST RESULTS

**Applicant Information** 

Company Name: NEW BRIGHT INDUSTRIAL CO., LTD

Address: 9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD,

KOWLOON BAY, KOWLOON, HONG KONG.

**Manufacturer Information** 

Company Name: NEW BRIGHT INDUSTRIAL CO., LTD

Address: 9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD,

KOWLOON BAY, KOWLOON, HONG KONG.

**EUT Information** 

Stephen Guo

**Operations Manager** 

EUT Name: TOY Transmitter

Model: 41H3

Sample Received Date: June 12, 2023

Sample Status: Normal Sample ID: 6214521

Date of Tested: June 12, 2023 to June 29, 2023

APPLICABLE STANDARDS				
STANDARD	TEST RESULTS			
CFR 47 FCC PART 15 SUBPART C	PASS			
ISED RSS-210 ISSUE 10	PASS			

Prepared By:	Checked By:
Danny Grany	kebo. There
Denny Huang	Kebo Zhang
Senior Project Engineer	Senior Project Engineer
Approved By:	
Hephenomo	

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# 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 414788 D01 Radiated Test Site v01r01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, ISED RSS-210 ISSUE 10 and ISED RSS-GEN Issue 5.

# 3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)			
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.			
	has been assessed and proved to be in compliance with A2LA.			
	FCC (FCC Designation No.: CN1187)			
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.			
	Has been recognized to perform compliance testing on equipment subject			
	to the Commission's Declaration of Conformity (DoC) and Certification			
	rules			
	ISED (Company No.: 21320)			
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.			
Certificate	has been registered and fully described in a report filed with ISED.			
The Company Number is 21320 and the test lab Conformity As				
	Body Identifier (CABID) is CN0046.			
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)			
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.			
	has been assessed and proved to be in compliance with VCCI, the			
Membership No. is 3793.				
	Facility Name:			
	Chamber D, the VCCI registration No. is G-20019 and R-20004			
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011			

#### Note 1:

All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

#### Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

#### Note 3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

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4. CALIBRATION AND UNCERTAINTY

# 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

## 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty		
Conduction emission	3.62 dB		
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB		
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB		
Radiated Emission	5.78 dB (1 GHz ~ 18 GHz)		
(Included Fundamental Emission) (1 GHz to 26 GHz)	5.23 dB (18 GHz ~ 26 GHz)		
Duty Cycle	±0.028%		
DTS and 99% Occupied Bandwidth	±0.0196%		
Note: This uncertainty represents an expanded uncertainty expressed at approximately the			

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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# 5. EQUIPMENT UNDER TEST

# 5.1. DESCRIPTION OF EUT

EUT Name	TOY Transmitter		
Model	41H3		
Droduct Description	Operation Frequency 2410 MHz ~ 2473 MHz		
Product Description	Modulation Type	GFSK	
Battery DC 3 V			

## 5.2. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2410	2	2442	3	2465	4	2473

## 5.3. MAXIMUM FIELD STRENGTH

Test Mode	Frequency (MHz)	Channel Number	Maximum average field strength (dBµV/m)
GFSK	2410 ~ 2473	1-4 [4]	81.22

# 5.4. TEST CHANNEL CONFIGURATION

Test Mode Test Channel		Frequency
GFSK	CH 1(Low Channel), CH 2(MID Channel), CH 4(High Channel)	2410 MHz, 2442 MHz, 2473 MHz

# 5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2410 MHz ~ 2473 MHz Band					
Test Soft	ware Version	1			
Modulation Type	Transmit Antenna	Test Channel			
Woddiation Type	Number	CH 1	CH 2	CH 4	
GFSK 1		Default	Default	Default	



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# 5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	Maximum Antenna Gain (dBi)
1	2410 ~ 2473	PCB	-3.34

Test Mode	Transmit and Receive Mode	Description
GFSK	⊠1TX	Antenna 1 can be used as transmitting/receiving antenna.

Note: The value of the antenna gain was declared by customer.



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# 5.7. DESCRIPTION OF TEST SETUP

## **SUPPORT EQUIPMENT**

Item	Equipment	Brand Name	Model Name	P/N
/	/	/	/	/

## **I/O CABLES**

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
/	/	/	/	/	/

## **ACCESSORY**

Item	Equipment	Mfr/Brand	Model/Type No.	Specification	Series No.
/	/	/	/	/	/

## **TEST SETUP**

The EUT have the engineer mode inside.

## SETUP DIAGRAM FOR TEST

New batteries were used during test.

**EUT** 



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# 6. MEASURING EQUIPMENT AND SOFTWARE USED

Tonsend RF Test System						
Equipment	Manufacturer	Model No.	Serial No.	Last Ca	al.	Due. Date
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Oct.17, 2	2022	Oct.16, 2023
Attenuator	Agilent	8495B	95B 2814a12853		2022	Oct.17, 2023
	Software					
Description Manufacturer Name						Version
Tonsend SRD Test Sys	send SRD Test System Tonsend JS1120-3 RF Test System				2	.6.77.0518

	Radiated Emissions				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.17, 2022	Oct.16, 2023
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
Preamplifier	HP	8447D	2944A09099	Oct.17, 2022	Oct.16, 2023
EMI Measurement Receiver	R&S	ESR26	101377	Oct.17, 2022	Oct.16, 2023
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Oct.17, 2022	Oct.16, 2023
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Oct.17, 2022	Oct.16, 2023
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Oct.17, 2022	Oct.16, 2023
Loop antenna	Schwarzbeck	1519B	80000	Dec.14, 2021	Dec.13, 2024
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	Oct.17, 2022	Oct.16, 2023
Preamplifier	Mini-Circuits	ZX60-83LN- S+	SUP01202035	Oct.17, 2022	Oct.16, 2023
High Pass Filter	Wi	WHKX10- 2700-3000- 18000-40SS	23	Oct.17, 2022	Oct.16, 2023
Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS	4	Oct.17, 2022	Oct.16, 2023
		So	ftware		
	Description		Manufacturer	Name	Version
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1



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# 7. ANTENNA PORT TEST RESULTS

# 7.1. 20DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

## **LIMITS**

CFR 47 FCC Part15 (15.249) Subpart C RSS-Gen Issue 5				
Section	Frequency Range (MHz)			
CFR 47 FCC §15.215 (c)	20dB Bandwidth	for reporting purposes only	2400-2483.5	
ISED RSS-Gen Clause 6.7 Issue 5	99% Occupied Bandwidth	For reporting purposes only.	2400-2483.5	

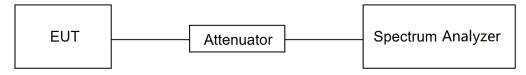
# TEST PROCEDURE

Connect the UUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the occupied bandwidth
VBW	approximately 3xRBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and 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 20 dB/99% relative to the maximum level measured in the fundamental emission.

## **TEST SETUP**



#### **TEST ENVIRONMENT**

Temperature	24.2 °C	Relative Humidity	55%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.0 V



# **TEST RESULTS**

Frequency	99% Bandwidth	20dB Bandwidth	Result
(MHz)	(MHz)	(MHz)	
2410	1.2124	1.151	PASS





Frequency (MHz)	99% Bandwidth (MHz)	20dB Bandwidth (MHz)	Result
2442	1.2812	1.328	PASS





Frequency (MHz)

99% Bandwidth (MHz)

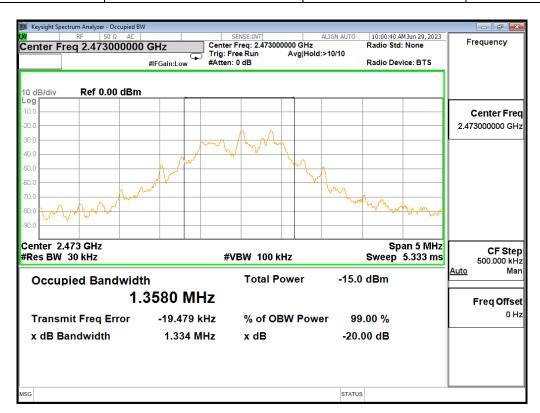
20dB Bandwidth (MHz)

Result

1.3580

1.334

PASS



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# 7.2. DUTY CYCLE

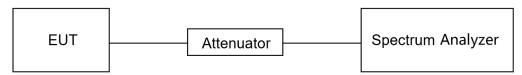
## **LIMITS**

None; for reporting purposes only.

## **TEST PROCEDURE**

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

## **TEST SETUP**



# **TEST ENVIRONMENT**

Temperature	24.2 °C	Relative Humidity	55%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.0 V

## **TEST RESULTS**

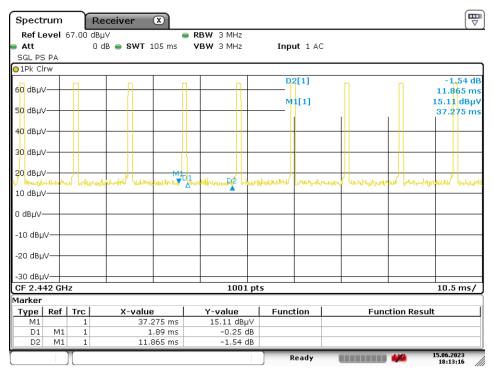
Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)
GFSK	17.01	100	0.1701	17.01	-15.39

Note: Duty Cycle Correction Factor=20log(x).

Where: x is Duty Cycle



## ON TIME AND DUTY CYCLE MID CH PLOT



Date: 15.JUN.2023 18:13:16

Note: All the modes had been tested, but only the worst duty cycle recorded in the report.

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# 8. RADIATED TEST RESULTS

## **LIMITS**

Please refer to CFR 47 FCC §15.205 and §15.209.

CFR 47 FCC §15.249 (a)(d)(c)(e) and ISED RSS-210 Issue 10 Annex B B.10

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

The field strength of emissions from intentional radiators operated within these frequency				
	bands			
Frequency (MHz)	Field strength of Fundamental	Field strength of Harmonics	Distance (m)	
902 - 928	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3	
2400 – 2483.5	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3	
5725 – 5875	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3	

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz				
Frequency Range	Frequency Range Field Strength Limit		gth Limit	
(MHz)	(uV/m) at 3 m	(dBuV/m) at 3 m		
		Quasi-l	Peak	
30 - 88	100	40		
88 - 216	150	43.5		
216 - 960	200	46		
Above 960	500	54		
Above 1000	500	Peak	Average	
Above 1000	500	74	54	

FCC Emissions radiated outside of the specified frequency bands below 30 MHz			
Frequency (MHz) Field strength (microvolts/meter) Measurement distance (meters)			
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705-30.0	30	30	



# ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz			
Frequency Magnetic field strength (H-Field) (μA/m) Measurement distance (m)			
9 - 490 kHz <sup>Note 1</sup>	6.37/F (F in kHz)	300	
490 - 1705 kHz	63.7/F (F in kHz)	30	
1.705 - 30 MHz	0.08	30	

**Note 1:** The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.



# ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	158.52475 - 158.52525	9.3 - 9.5
2.1735 - 2.1905	158.7 - 158.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
3.215 - 6.218	608 - 614	23.6 - 24.0
3.26775 - 6.26825	980 - 1427	31.2 - 31.8
3.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
3.291 - 8.294	1845.5 - 1848.5	Above 38.6
3.362 - 8.366	1680 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3280 - 3287	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5480	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 – 138		
ote 1: Certain frequency band		

# FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 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	( <sup>2</sup> )
13.36-13.41			

Note: <sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. <sup>2</sup>Above 38.6c

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#### **TEST PROCEDURE**

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode remeasured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
- 8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of  $377\Omega$ . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.



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## Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.



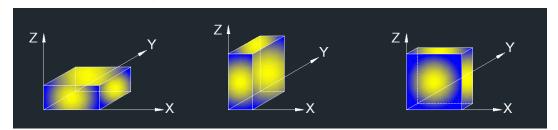
#### Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
1VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 1.5 m above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
- 6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.2. ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.



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For Restricted Bandedge and field strength of intentional emission:

#### Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the transmitting duration, please refer to clause 7.2.
- 6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
- 7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
- 8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):

#### Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious Emission (30 MHz ~ 1 GHz):

#### Note:

- 1. Result Level = Read Level + Correct Factor.
- 2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
- 3. All modes, channels and antennas have been tested, only the worst data was recorded in the report.



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For Radiate Spurious Emission (1 GHz ~ 3 GHz):

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the transmitting duration, please refer to clause 7.2.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious Emission (3 GHz ~ 18 GHz):

#### Note:

- 1. Peak Result = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the transmitting duration, please refer to clause 7.2.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

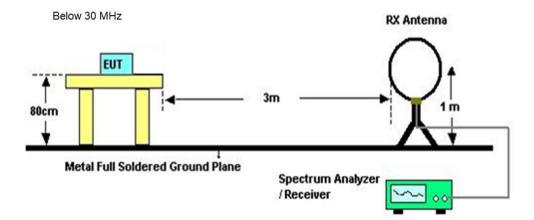
For Radiate Spurious emission (18 GHz ~ 26 GHz):

#### Note:

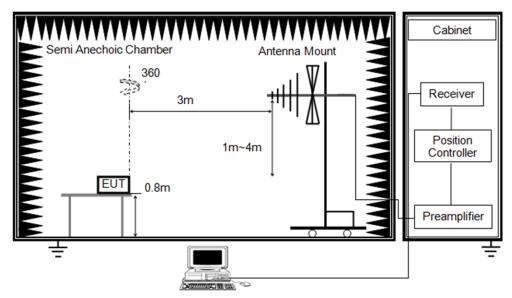
- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.



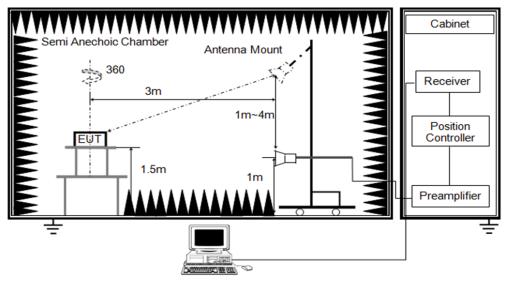
# **TEST SETUP**



Below 1 GHz and above 30 MHz



Above 1 GHz





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# **TEST ENVIRONMENT**

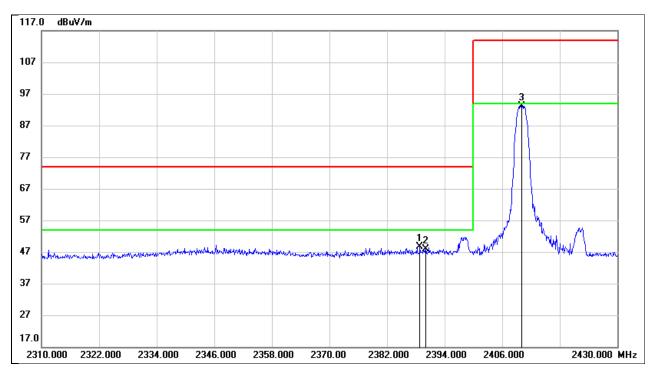
Temperature	24.2 °C	Relative Humidity	55%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.0 V

# **TEST RESULTS**

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# 8.1. RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS

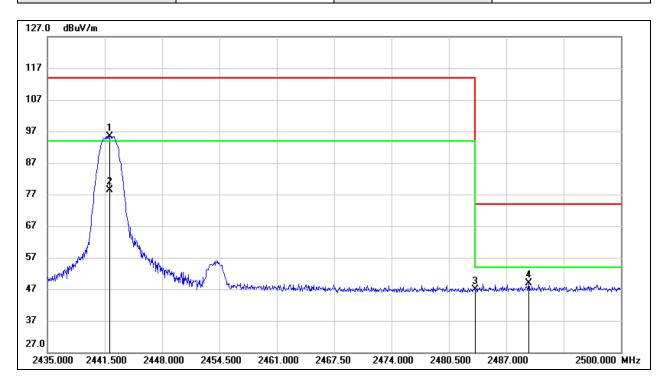
Test Mode:	2.4G Peak	Channel:	2410 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.840	16.36	32.16	48.52	74.00	-25.48	peak
2	2390.000	15.61	32.16	47.77	74.00	-26.23	peak
3	2410.000	60.93	32.22	93.15	114.00	-20.85	Fundamental
							peak



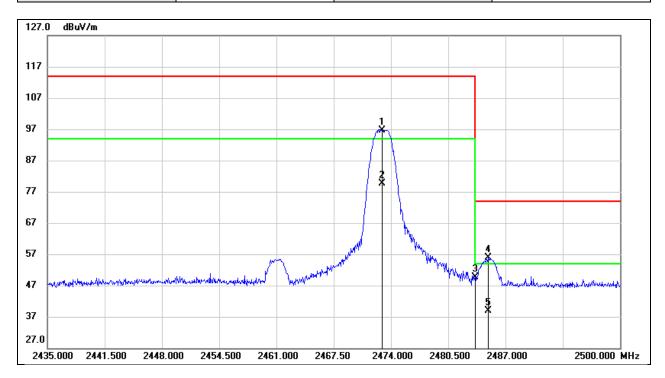
Test Mode:	2.4G Peak	Channel:	2442 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2442.000	63.08	32.32	95.40	114.00	-18.60	Fundamental peak
2	2442.000	/	/	80.01	94.00	-13.99	Fundamental AVG
3	2483.500	14.40	32.44	46.84	74.00	-27.16	peak
4	2489.535	16.31	32.46	48.77	74.00	-25.23	peak



Test Mode:	2.4G Peak	Channel:	2473 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.0 V

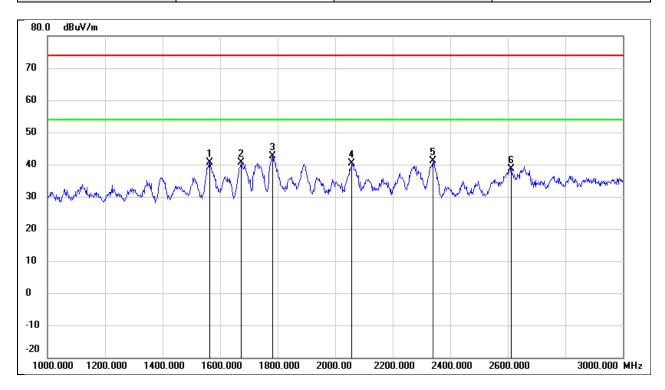


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2473.000	64.20	32.41	96.61	114.00	-17.39	Fundamental peak
2	2473.000	/	/	81.22	94.00	-12.78	Fundamental AVG
3	2483.500	17.15	32.44	49.59	74.00	-24.41	peak
4	2485.050	23.42	32.44	55.86	74.00	-18.14	peak
5	2485.050	6.49	32.44	38.93	54.00	-15.07	AVG

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# 8.2. SPURIOUS EMISSIONS (1 GHZ ~ 3 GHZ)

Test Mode:	2.4G	Channel:	2410 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.0 V

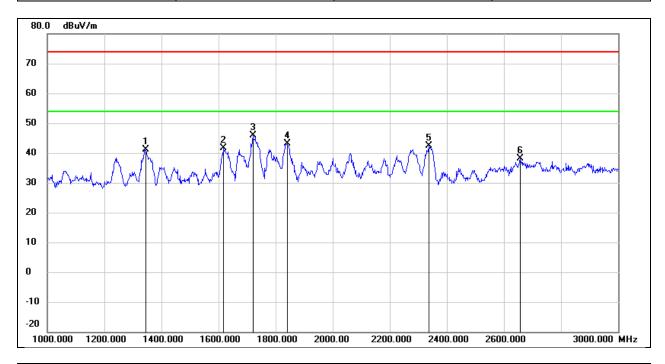


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1564.000	53.01	-12.50	40.51	74.00	-33.49	peak
2	1674.000	52.88	-12.13	40.75	74.00	-33.25	peak
3	1782.000	54.31	-11.78	42.53	74.00	-31.47	peak
4	2058.000	51.02	-10.76	40.26	74.00	-33.74	peak
5	2340.000	50.46	-9.31	41.15	74.00	-32.85	peak
6	2612.000	46.89	-8.15	38.74	74.00	-35.26	peak



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Test Mode:	2.4G	Channel:	2410 MHz
Polarity:	Vertical	Test Voltage:	DC 3.0 V

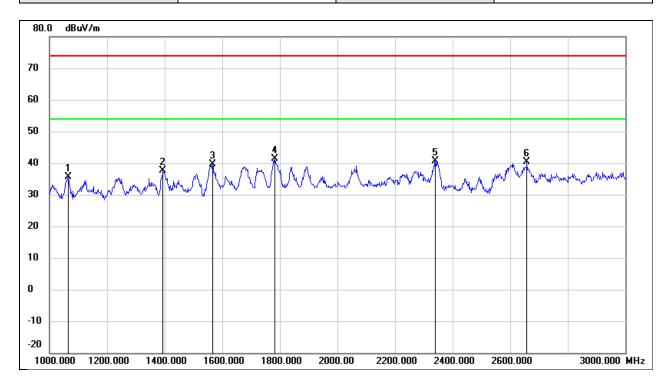


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1346.000	54.60	-13.42	41.18	74.00	-32.82	peak
2	1618.000	53.97	-12.32	41.65	74.00	-32.35	peak
3	1720.000	57.77	-11.98	45.79	74.00	-28.21	peak
4	1840.000	54.79	-11.58	43.21	74.00	-30.79	peak
5	2338.000	51.72	-9.32	42.40	74.00	-31.60	peak
6	2656.000	46.26	-8.02	38.24	74.00	-35.76	peak



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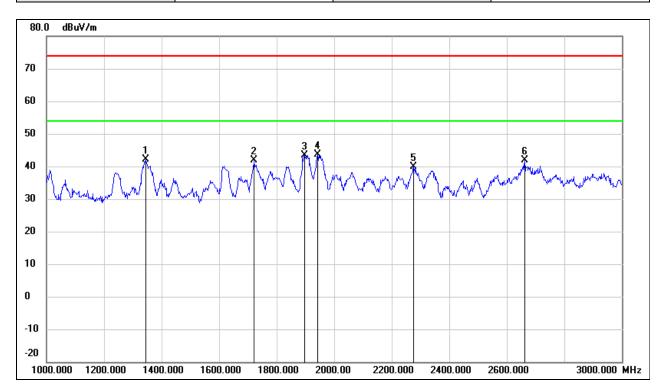
Test Mode:	2.4G	Channel:	2442 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1064.000	50.24	-14.73	35.51	74.00	-38.49	peak
2	1394.000	50.80	-13.20	37.60	74.00	-36.40	peak
3	1566.000	52.05	-12.49	39.56	74.00	-34.44	peak
4	1782.000	53.19	-11.78	41.41	74.00	-32.59	peak
5	2340.000	49.86	-9.31	40.55	74.00	-33.45	peak
6	2658.000	48.33	-8.02	40.31	74.00	-33.69	peak



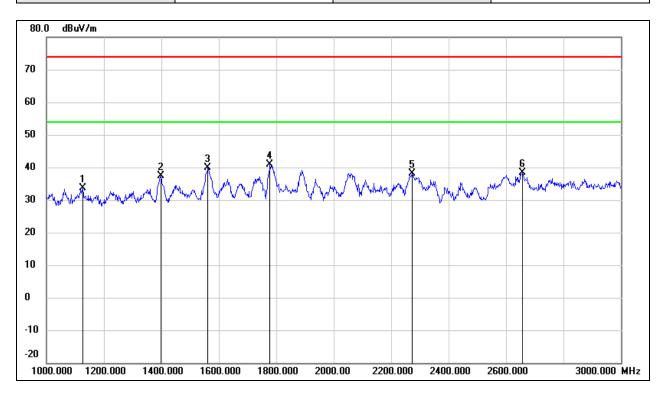
Test Mode:	2.4G	Channel:	2442 MHz
Polarity:	Vertical	Test Voltage:	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1344.000	55.61	-13.43	42.18	74.00	-31.82	peak
2	1722.000	53.85	-11.98	41.87	74.00	-32.13	peak
3	1898.000	54.86	-11.39	43.47	74.00	-30.53	peak
4	1942.000	54.77	-11.25	43.52	74.00	-30.48	peak
5	2276.000	49.64	-9.64	40.00	74.00	-34.00	peak
6	2662.000	49.77	-8.01	41.76	74.00	-32.24	peak



Test Mode:	2.4G	Channel:	2473 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.0 V

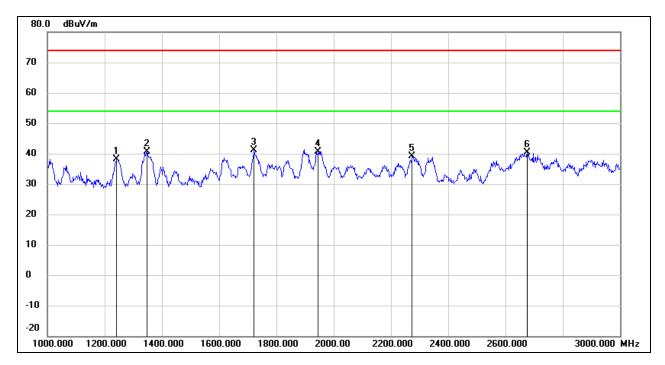


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1126.000	48.05	-14.44	33.61	74.00	-40.39	peak
2	1398.000	50.49	-13.19	37.30	74.00	-36.70	peak
3	1562.000	52.30	-12.50	39.80	74.00	-34.20	peak
4	1778.000	52.62	-11.79	40.83	74.00	-33.17	peak
5	2272.000	47.81	-9.66	38.15	74.00	-35.85	peak
6	2658.000	46.28	-8.02	38.26	74.00	-35.74	peak



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Test Mode:	2.4G	Channel:	2473 MHz
Polarity:	Vertical	Test Voltage:	DC 3.0 V

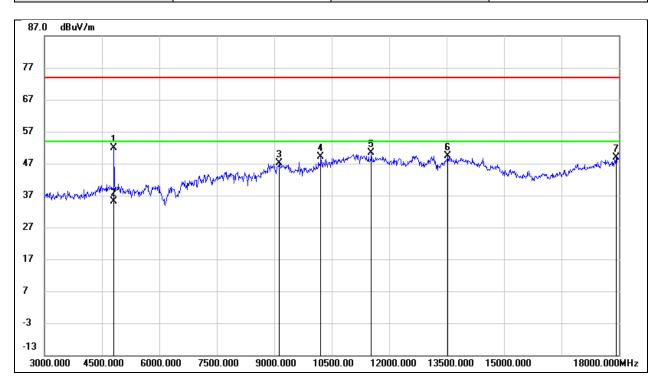


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1242.000	52.11	-13.91	38.20	74.00	-35.80	peak
2	1348.000	54.05	-13.42	40.63	74.00	-33.37	peak
3	1722.000	52.99	-11.98	41.01	74.00	-32.99	peak
4	1946.000	51.89	-11.24	40.65	74.00	-33.35	peak
5	2274.000	48.74	-9.66	39.08	74.00	-34.92	peak
6	2676.000	48.31	-7.96	40.35	74.00	-33.65	peak

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# 8.3. SPURIOUS EMISSIONS (3 GHZ ~ 18 GHZ)

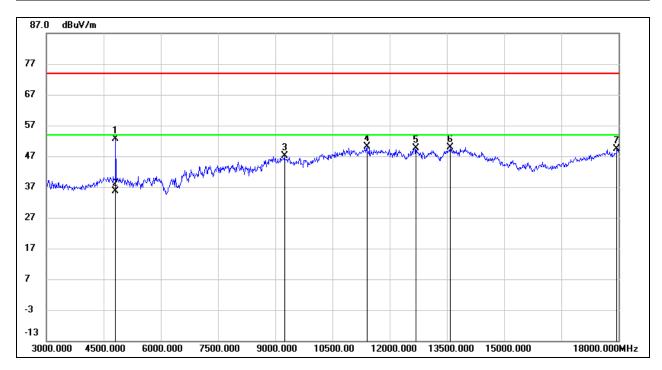
Test Mode:	2.4G	Channel:	2410 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	52.23	-0.26	51.97	114.00	-62.03	peak
2	4815.000	/	/	36.58	94.00	-57.42	AVG
3	9135.000	36.57	10.55	47.12	74.00	-26.88	peak
4	10215.000	36.63	12.43	49.06	74.00	-24.94	peak
5	11535.000	33.62	16.70	50.32	74.00	-23.68	peak
6	13530.000	28.35	20.96	49.31	74.00	-24.69	peak
7	17925.000	23.62	25.25	48.87	74.00	-25.13	peak



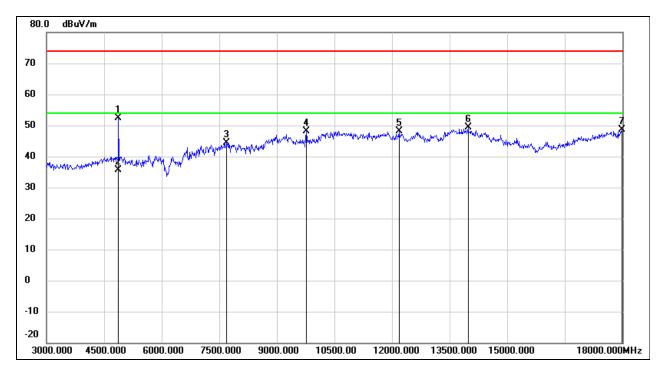
Test Mode:	2.4G	Channel:	2410 MHz
Polarity:	Vertical	Test Voltage:	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	52.85	-0.26	52.59	114.00	-61.41	peak
2	4815.000	/	/	37.2	94.00	-56.8	AVG
3	9240.000	36.52	10.58	47.10	74.00	-26.90	peak
4	11400.000	33.97	16.23	50.20	74.00	-23.80	peak
5	12690.000	31.54	18.02	49.56	74.00	-24.44	peak
6	13590.000	28.77	21.09	49.86	74.00	-24.14	peak
7	17955.000	23.97	25.42	49.39	74.00	-24.61	peak



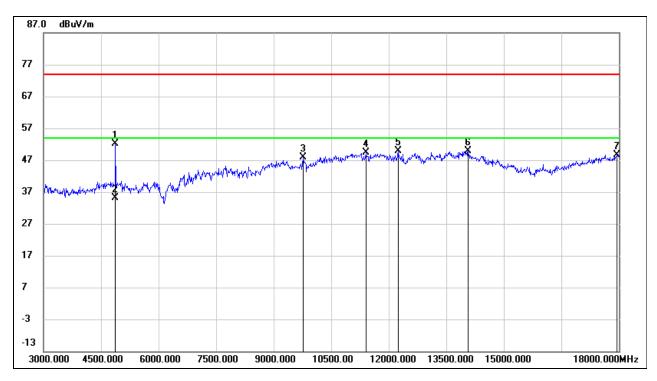
Test Mode:	2.4G	Channel:	2442 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	52.48	-0.03	52.45	114.00	-61.55	peak
2	4875.000	/	/	37.06	94.00	-56.94	AVG
3	7695.000	38.18	6.32	44.50	74.00	-29.50	peak
4	9765.000	36.82	11.40	48.22	74.00	-25.78	peak
5	12180.000	30.34	17.83	48.17	74.00	-25.83	peak
6	13980.000	27.39	21.92	49.31	74.00	-24.69	peak
7	17985.000	23.13	25.60	48.73	74.00	-25.27	peak



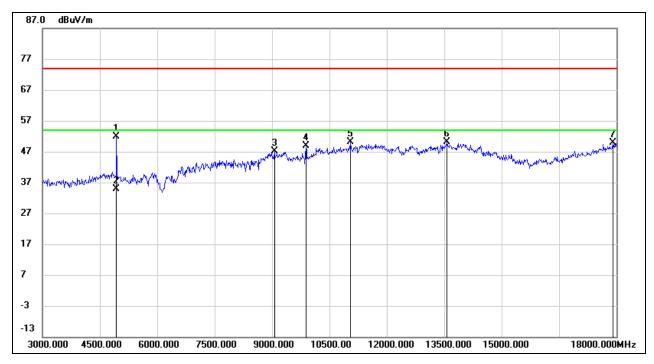
Test Mode:	2.4G	Channel:	2442 MHz
Polarity:	Vertical	Test Voltage:	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	52.18	-0.03	52.15	114.00	-61.85	peak
2	4875.000	/	/	36.76	94.00	-57.24	AVG
3	9765.000	36.56	11.40	47.96	74.00	-26.04	peak
4	11400.000	33.12	16.23	49.35	74.00	-24.65	peak
5	12240.000	32.15	17.79	49.94	74.00	-24.06	peak
6	14070.000	28.18	21.67	49.85	74.00	-24.15	peak
7	17955.000	23.28	25.42	48.70	74.00	-25.30	peak



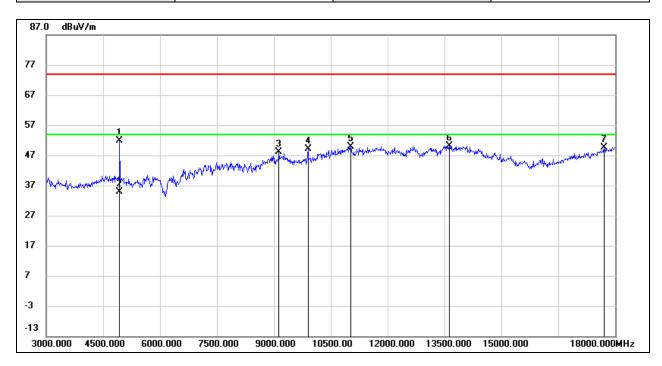
Test Mode:	2.4G	Channel:	2473 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4935.000	51.69	0.20	51.89	114.00	-62.11	peak
2	4935.000	/	/	36.5	94.00	-57.5	AVG
3	9060.000	36.72	10.51	47.23	74.00	-26.77	peak
4	9885.000	37.09	11.71	48.80	74.00	-25.20	peak
5	11055.000	35.13	14.96	50.09	74.00	-23.91	peak
6	13575.000	29.10	21.06	50.16	74.00	-23.84	peak
7	17910.000	24.61	25.16	49.77	74.00	-24.23	peak



Test Mode:	2.4G	Channel:	2473 MHz
Polarity:	Vertical	Test Voltage:	DC 3.0 V

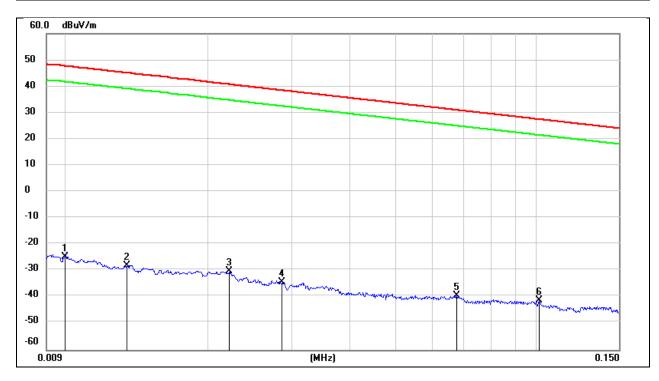


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4935.000	51.59	0.20	51.79	114.00	-62.21	peak
2	4935.000	/	/	36.4	94.00	-57.6	AVG
3	9135.000	37.46	10.55	48.01	74.00	-25.99	peak
4	9900.000	37.43	11.75	49.18	74.00	-24.82	peak
5	11025.000	34.96	14.85	49.81	74.00	-24.19	peak
6	13620.000	28.99	21.15	50.14	74.00	-23.86	peak
7	17700.000	25.75	23.91	49.66	74.00	-24.34	peak

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# 8.4. SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)

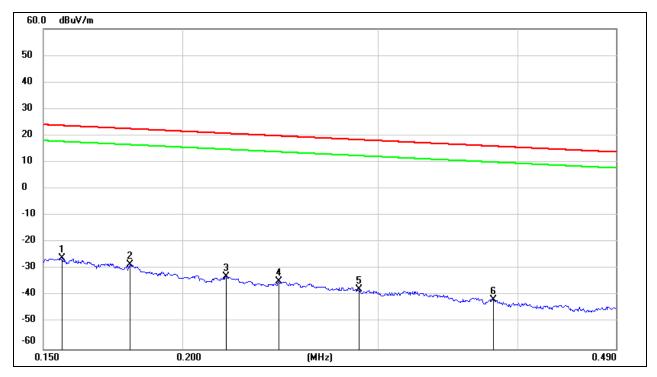
Test Mode:	2.4G	Channel:	2473 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Result	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuA/m)	(dBuV/m)	(dBuA/m)	(dB)	
1	0.01	76.72	-101.4	-24.68	-76.18	47.6	-3.9	-72.28	peak
2	0.0134	73.46	-101.39	-27.93	-79.43	45.06	-6.44	-72.99	peak
3	0.0221	71.13	-101.35	-30.22	-81.72	40.71	-10.79	-70.93	peak
4	0.0286	66.96	-101.38	-34.42	-85.92	38.47	-13.03	-72.89	peak
5	0.0675	62.14	-101.56	-39.42	-90.92	31.02	-20.48	-70.44	peak
6	0.1014	60.56	-101.79	-41.23	-92.73	27.48	-24.02	-68.71	peak

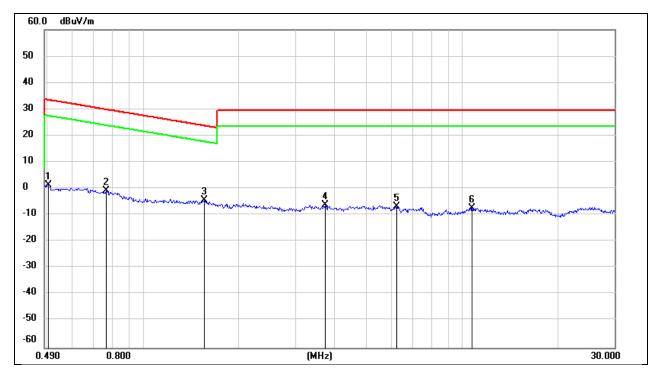


Test Mode:	2.4G	Channel:	2473 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Result	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuA/m)	(dBuV/m)	(dBuA/m)	(dB)	
1	0.1559	75.65	-101.65	-26	-77.50	23.74	-27.76	-49.74	peak
2	0.1794	73.27	-101.68	-28.41	-79.91	22.53	-28.97	-50.94	peak
3	0.219	68.77	-101.75	-32.98	-84.48	20.79	-30.71	-53.77	peak
4	0.2442	67.03	-101.79	-34.76	-86.26	19.85	-31.65	-54.61	peak
5	0.2878	64.22	-101.85	-37.63	-89.13	18.42	-33.08	-56.05	peak
6	0.3805	60.49	-101.94	-41.45	-92.95	15.99	-35.51	-57.44	peak

Test Mode:	2.4G	Channel:	2473 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage	DC 3.0 V

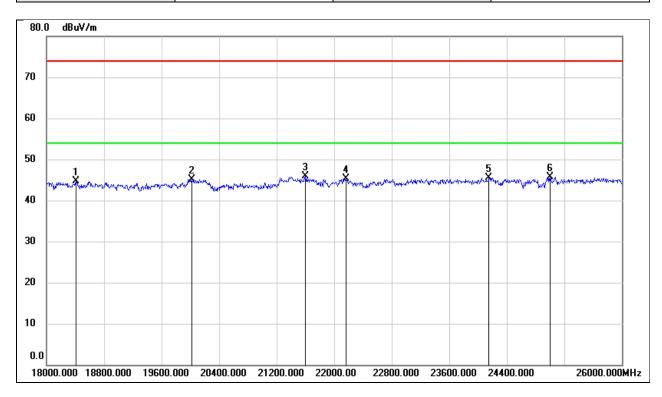


No.	Frequency	Reading	Correct	Result	Result	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuA/m)	(dBuV/m)	(dBuA/m)	(dB)	
1	0.5039	63.43	-62.07	1.36	-50.14	33.56	-17.94	-32.20	peak
2	0.7641	61.42	-62.12	-0.7	-52.20	29.94	-21.56	-30.64	peak
3	1.5564	57.68	-62.02	-4.34	-55.84	23.76	-27.74	-28.10	peak
4	3.71	55.2	-61.41	-6.21	-57.71	29.54	-21.96	-35.75	peak
5	6.2445	54.63	-61.32	-6.69	-58.19	29.54	-21.96	-36.23	peak
6	10.7299	53.48	-60.83	-7.35	-58.85	29.54	-21.96	-36.89	peak

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# 8.5. SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)

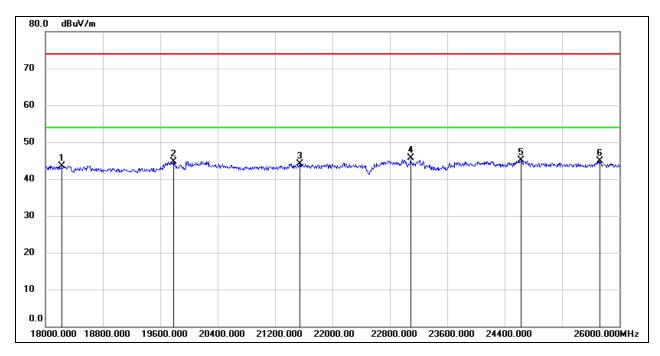
Test Mode:	2.4G	Channel:	2473 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18408.000	50.16	-5.37	44.79	74.00	-29.21	peak
2	20016.000	50.56	-5.47	45.09	74.00	-28.91	peak
3	21600.000	50.52	-4.54	45.98	74.00	-28.02	peak
4	22160.000	49.58	-4.31	45.27	74.00	-28.73	peak
5	24152.000	48.39	-2.80	45.59	74.00	-28.41	peak
6	25000.000	47.86	-2.10	45.76	74.00	-28.24	peak



Test Mode:	2.4G	Channel:	2473 MHz
Polarity:	Vertical	Test Voltage:	DC 3.0 V

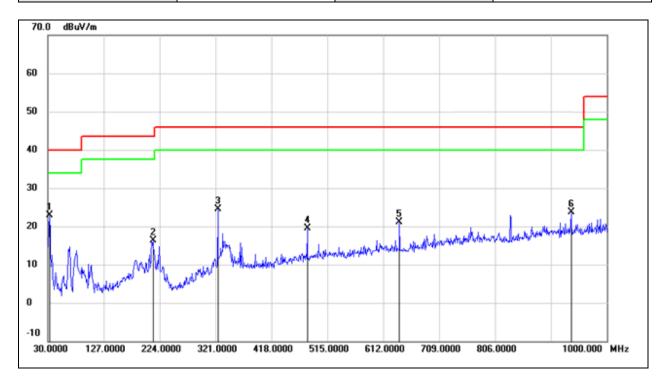


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18224.000	49.08	-5.53	43.55	74.00	-30.45	peak
2	19784.000	50.07	-5.28	44.79	74.00	-29.21	peak
3	21544.000	48.76	-4.63	44.13	74.00	-29.87	peak
4	23088.000	49.02	-3.41	45.61	74.00	-28.39	peak
5	24624.000	47.49	-2.33	45.16	74.00	-28.84	peak
6	25728.000	45.61	-0.72	44.89	74.00	-29.11	peak

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# 8.6. SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)

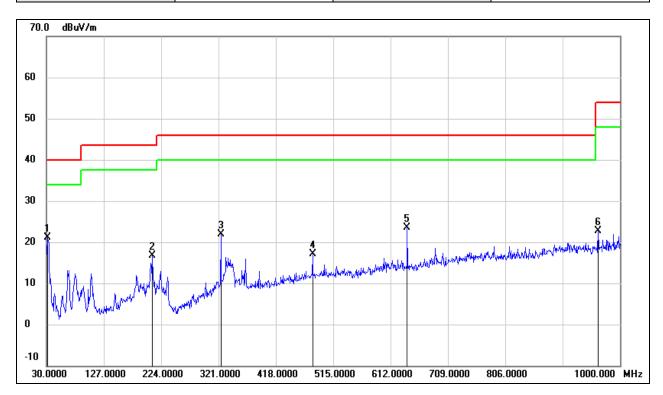
Test Mode:	2.4G	Channel:	2473 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	32.9100	41.57	-18.69	22.88	40.00	-17.12	QP
2	212.3600	33.40	-17.15	16.25	43.50	-27.25	QP
3	324.8800	38.51	-14.06	24.45	46.00	-21.55	QP
4	480.0800	30.55	-11.05	19.50	46.00	-26.50	QP
5	640.1300	30.44	-9.41	21.03	46.00	-24.97	QP
6	937.9200	28.38	-4.65	23.73	46.00	-22.27	QP



Test Mode:	2.4G	Channel:	2473 MHz
Polarity:	Vertical	Test Voltage:	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	31.9400	39.58	-18.55	21.03	40.00	-18.97	QP
2	208.4800	33.58	-16.96	16.62	43.50	-26.88	QP
3	324.8800	35.95	-14.06	21.89	46.00	-24.11	QP
4	480.0800	28.06	-11.05	17.01	46.00	-28.99	QP
5	640.1300	33.00	-9.41	23.59	46.00	-22.41	QP
6	963.1400	27.25	-4.63	22.62	54.00	-31.38	QP



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### 9. ANTENNA REQUIREMENT

### **APPLICABLE REQUIREMENTS**

Please refer to FCC §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

	END OF REPORT
Complies	
RESULTS	