



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

TEST REPORT

For

TOY Transmitter

MODEL NUMBER: 3720HH2

REPORT NUMBER: 4791107528-RF-1

ISSUE DATE: December 19, 2023

FCC ID: G6D3720HH2

IC: 9650A-3720HH2

Prepared for

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

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

> Tel: +86 769 22038881 Fax: +86 769 33244054 Website: www.ul.com

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.



REPORT NO.: 4791107528-RF-1 Page 2 of 53

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	December 19, 2023	Initial Issue	



REPORT NO.: 4791107528-RF-1 Page 3 of 53

Summary of Test Results

Summary of Test Results				
Clause	Clause Test Items FCC/ISED Rules			
1	20dB Bandwidth and 99% CFR 47 FCC §15.215 (c) Occupied Bandwidth 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		
3	Conducted Emission Test for AC Power Port			
4	Antenna Requirement	CFR 47 FCC §15.203 ISED RSS-Gen Clause 6.3	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.



CONTENTS

1. ATT	ESTATION OF TEST RESULTS	5
2. TES	T METHODOLOGY	6
3. FAC	ILITIES AND ACCREDITATION	6
4. CAL	IBRATION AND UNCERTAINTY	7
4.1.	MEASURING INSTRUMENT CALIBRATION	7
4.2.	MEASUREMENT UNCERTAINTY	7
5. EQU	IPMENT UNDER TEST	8
5.1.	DESCRIPTION OF EUT	8
5.2.	CHANNEL LIST	8
5.3.	MAXIMUM FIELD STRENGTH	8
5.4.	TEST CHANNEL CONFIGURATION	8
5.5.	THE WORSE CASE POWER SETTING PARAMETER	8
5.6.	DESCRIPTION OF AVAILABLE ANTENNAS	9
5.7.	DESCRIPTION OF TEST SETUP	10
6. MEA	SURING EQUIPMENT AND SOFTWARE USED	11
7. ANT	ENNA PORT TEST RESULTS	12
7.1.	20DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH	12
7.2.	DUTY CYCLE	17
8. RAD	NATED TEST RESULTS	19
8.1. EMISS	RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL	29
8.2.	SPURIOUS EMISSIONS (1 GHZ ~ 3 GHZ)	32
8.3.	SPURIOUS EMISSIONS (3 GHZ ~ 18 GHZ)	38
<i>8.4.</i>	SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)	44
8.5.	SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)	47
8.6.	SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)	49
9. AC I	POWER LINE CONDUCTED EMISSION	51
10.	ANTENNA REQUIREMENT	53



Page 5 of 53

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: NEW BRIGHT INDUSTRIAL CO., LTD

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

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

EUT Name: TOY Transmitter

Model: 3720HH2 Sample Received Date: 6718397 Sample Status: Normal Sample ID: 5973286

Date of Tested: December 5, 2023 ~ December 19, 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	kelo. Thurs
Denny Huang	Kebo Zhang

Senior Project Engineer

Approved By:

Stephen Guo

Operations Manager

Senior Project Engineer

Page 6 of 53

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.

Page 7 of 53

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:

Uncertainty	
3.62 dB	
2.2 dB	
4.00 dB	
5.78 dB (1 GHz ~ 18 GHz)	
5.23 dB (18 GHz ~ 26 GHz)	
±0.028%	
±0.0196%	

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

Page 8 of 53

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	TOY Transmitter		
Model	3720HH2		
Draduct Description	Operation Frequency 2410 MHz ~ 2473 MHz		
Product Description	Modulation Type GFSK		
Battery DC 3.0 V			

5.2. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2410	10	2428	19	2444	28	2465
2	2414	11	2429	20	2446	29	2466
3	2415	12	2430	21	2450	30	2467
4	2416	13	2431	22	2452	31	2469
5	2417	14	2433	23	2454	32	2473
6	2418	15	2434	24	2456	/	/
7	2419	16	2439	25	2458	/	/
8	2421	17	2441	26	2462	/	/
9	2426	18	2442	27	2464	/	/

5.3. MAXIMUM FIELD STRENGTH

Test Mode	Frequency (MHz)	Channel Number	Maximum Peak field strength (dBµV/m)	
GFSK	2410 ~ 2473	1-32[32]	93.30	

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency	
GFSK	CH 1(Low Channel), CH 10(MID Channel), CH 32(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			
Modulation Type	Number	CH 1	CH 10	CH 32	
GFSK	1	Default	Default	Default	



Page 9 of 53

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

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



Page 10 of 53

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

EUT



REPORT NO.: 4791107528-RF-1 Page 11 of 53

6. MEASURING EQUIPMENT AND SOFTWARE USED

Tonsend RF Test System						
Equipment Manufacturer Model No. Serial No. Last C						Due. Date
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Oct.12, 2	2023	Oct.11, 2024
Attenuator	Agilent	8495B	2814a12853	Oct.12, 2	2023	Oct.11, 2024
	Software					
Description Manufacturer			Name			Version
Tonsend SRD Test Sys	nd JS1	120-3 RF Test S	ystem	2	.6.77.0518	

	Radiated Emissions				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.12, 2023	Oct.11, 2024
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
Preamplifier	HP	8447D	2944A09099	Oct.12, 2023	Oct.11, 2024
EMI Measurement Receiver	R&S	ESR26	101377	Oct.12, 2023	Oct.11, 2024
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Oct.12, 2023	Oct.11, 2024
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Oct.12, 2023	Oct.11, 2024
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Oct.12, 2023	Oct.11, 2024
Loop antenna	Schwarzbeck	1519B	80000	Dec.14, 2021	Dec.13, 2024
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	Oct.12, 2023	Oct.11, 2024
High Pass Filter	Wi	WHKX10- 2700-3000- 18000-40SS	23	Oct.12, 2023	Oct.11, 2024
Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS	4	Oct.12, 2023	Oct.11, 2024
		So	ftware		
[Description		Manufacturer	Name	Version
Test Software	for Radiated E	missions	Farad	EZ-EMC	Ver. UL-3A1

Page 12 of 53

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 Test Item Limit 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

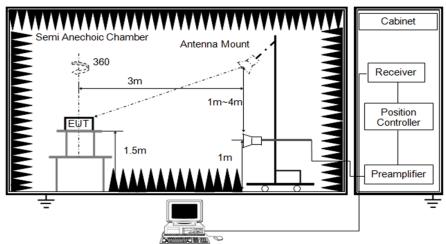
Connect the UUT to the spectrum analyzer and use the following settings:

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

Above 1 GHz





Page 13 of 53

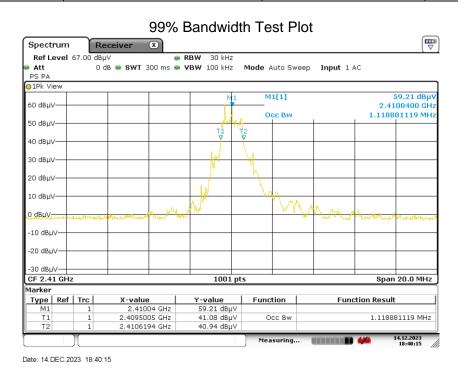
TEST ENVIRONMENT

Temperature	24.3 °C	Relative Humidity	61%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.0 V

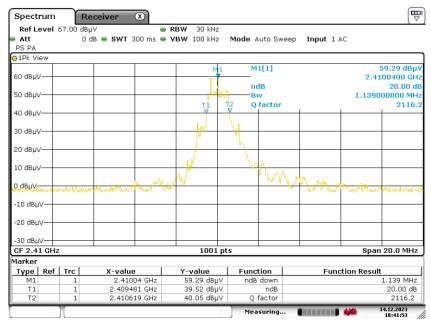


TEST RESULTS

Frequency	99% Bandwidth	20dB Bandwidth	Result
(MHz)	(MHz)	(MHz)	
2410	1.1189	1.139	PASS



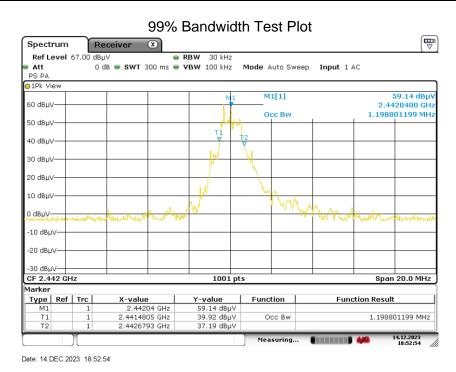
20dB Bandwidth Test Plot

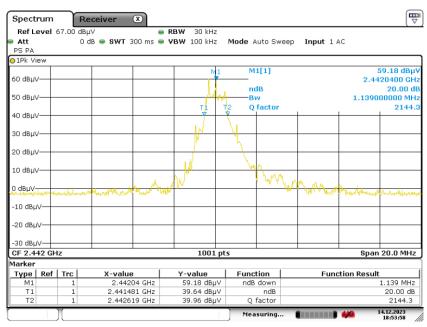


Date: 14.DEC.2023 18:41:53



Frequency (MHz)	99% Bandwidth (MHz)	20dB Bandwidth (MHz)	Result
2442	1.1988	1.139	PASS



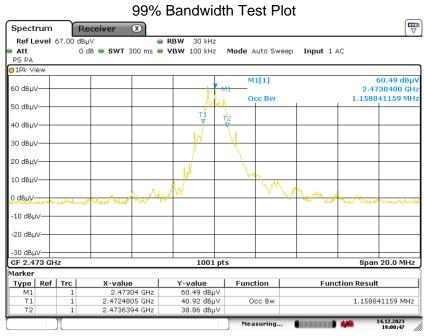


20dB Bandwidth Test Plot

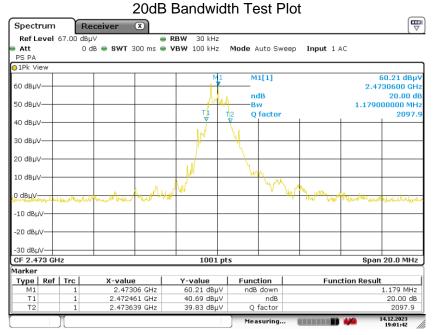
Date: 14.DEC.2023 18:53:59



Frequency	99% Bandwidth	20dB Bandwidth	Result
(MHz)	(MHz)	(MHz)	
2473	1.1588	1.179	PASS



Date: 14.DEC.2023 19:00:47



Date: 14.DEC.2023 19:01:42

Page 17 of 53

7.2. DUTY CYCLE

LIMITS

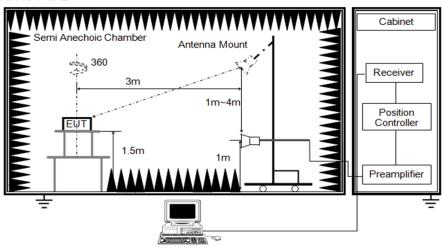
None; for reporting purposes only.

TEST PROCEDURE

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

TEST SETUP

Above 1 GHz



TEST ENVIRONMENT

Temperature	24.3 °C	Relative Humidity	61%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.0 V

TEST RESULTS

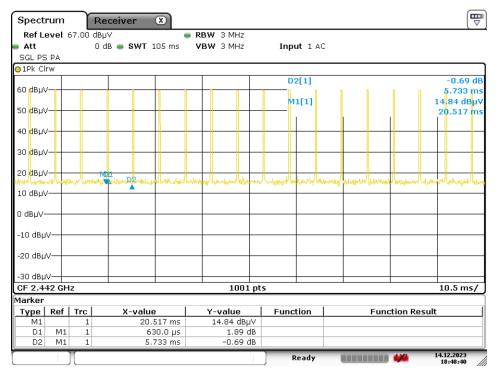
Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)
GFSK	9.45	100	0.0945	9.45	-20.49

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

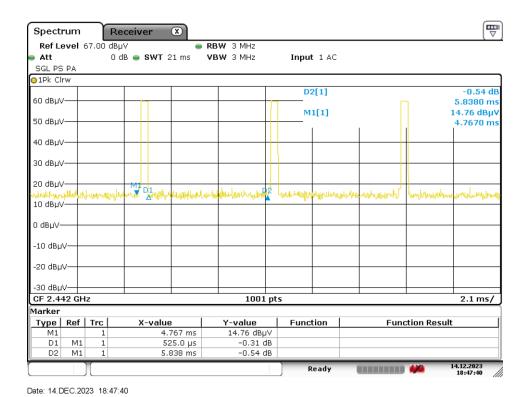
Where: x is Duty Cycle



ON TIME AND DUTY CYCLE MID CH PLOT



Date: 14.DEC.2023 18:48:39



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

Page 19 of 53

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	Field Strength Limit	Field Stren	gth Limit
(MHz)	(uV/m) at 3 m	(dBuV/m)	at 3 m
		Quasi-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 ^{Note 1}	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 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
1.125 - 4.128	167.72 - 173.2	14.47 - 14.5
1.17725 - 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	1645.5 - 1648.5	Above 38.6
3.362 - 8.366	1680 - 1710	
3.37625 - 8.38675	1718.8 - 1722.2	
3.41425 - 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	3260 - 3267	
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 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 – 138		

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
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			

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

Page 22 of 53

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 377Ω. 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.



Page 23 of 53

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.



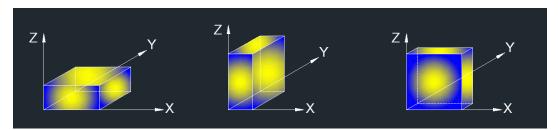
Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
1VBVV	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. Where necessary, average emission are determined by applying the Duty Cycle Correction Factor to the peak measurements. For the Duty Cycle and Correction Factor 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.



REPORT NO.: 4791107528-RF-1 Page 25 of 53

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.



REPORT NO.: 4791107528-RF-1 Page 26 of 53

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.

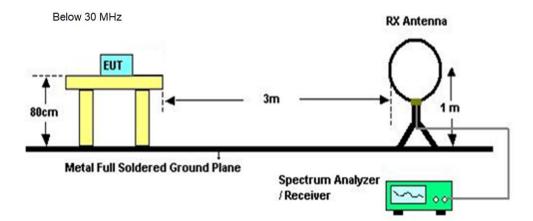
For Radiate Spurious emission (18 GHz ~ 26 GHz):

Note:

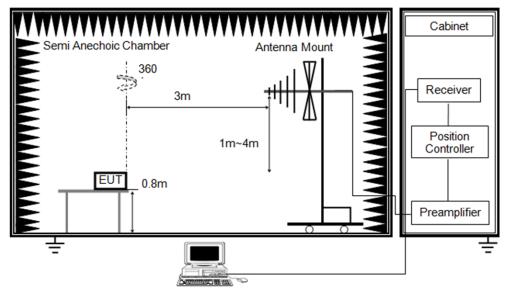
- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the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



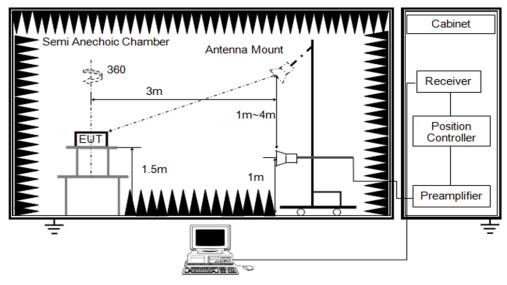
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz





Page 28 of 53

TEST ENVIRONMENT

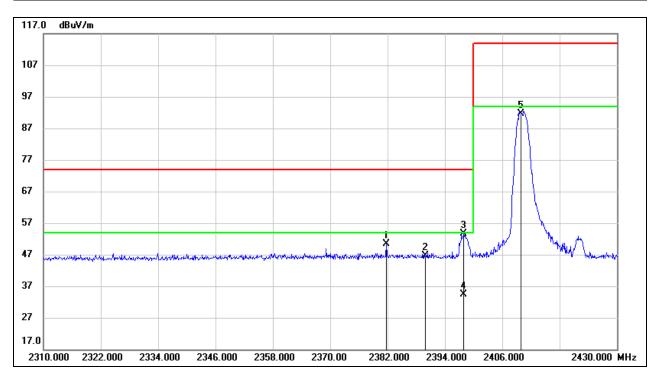
Temperature	24.3 °C	Relative Humidity	61%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.0 V

TEST RESULTS

REPORT NO.: 4791107528-RF-1 Page 29 of 53

8.1. RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS

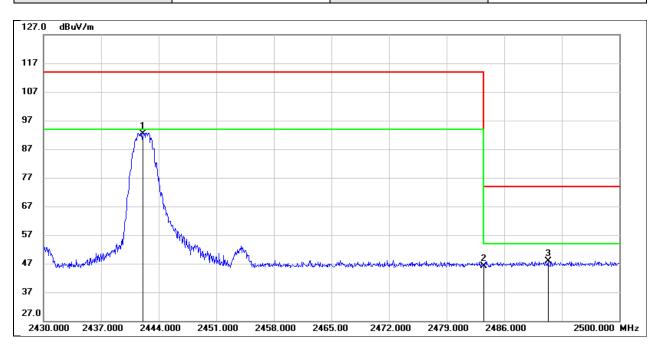
Test Mode:	SRD 2.4G Peak	Frequency(MHz):	2410
Polarity:	Horizontal	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2381.760	18.37	32.13	50.50	74.00	-23.50	peak
2	2390.000	14.43	32.16	46.59	74.00	-27.41	peak
3	2397.960	21.45	32.18	53.63	74.00	-20.37	peak
4	2397.960	2.12	32.18	34.30	54.00	-19.70	AVG
5	2410.000	59.50	32.22	91.72	114.00	-22.28	Fundamental



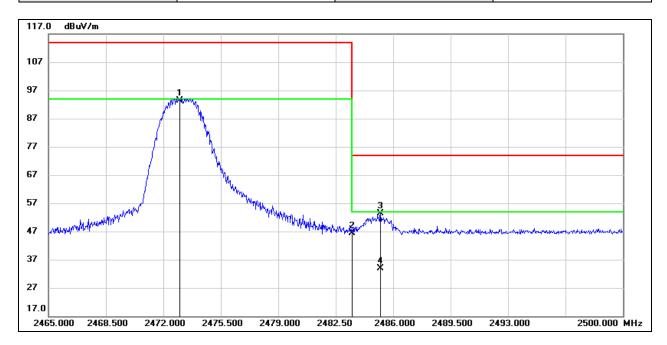
Test Mode:	SRD 2.4G Peak	Frequency(MHz):	2442
Polarity:	Horizontal	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2442.000	60.02	32.32	92.34	114.00	-21.66	Fundamental
2	2483.500	13.59	32.44	46.03	74.00	-27.97	peak
3	2491.320	15.45	32.47	47.92	74.00	-26.08	peak



Test Mode:	SRD 2.4G Peak	Frequency(MHz):	2473
Polarity:	Horizontal	Test Voltage:	DC 3 V

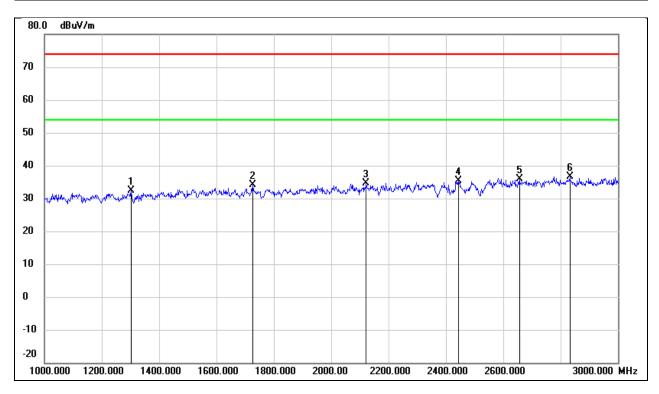


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2473.000	60.89	32.41	93.30	114.00	-20.70	Fundamental
2	2483.500	13.85	32.44	46.29	74.00	-27.71	peak
3	2485.230	20.84	32.44	53.28	74.00	-20.72	peak
4	2485.230	1.51	32.44	33.95	54.00	-20.05	AVG

REPORT NO.: 4791107528-RF-1 Page 32 of 53

8.2. SPURIOUS EMISSIONS (1 GHZ ~ 3 GHZ)

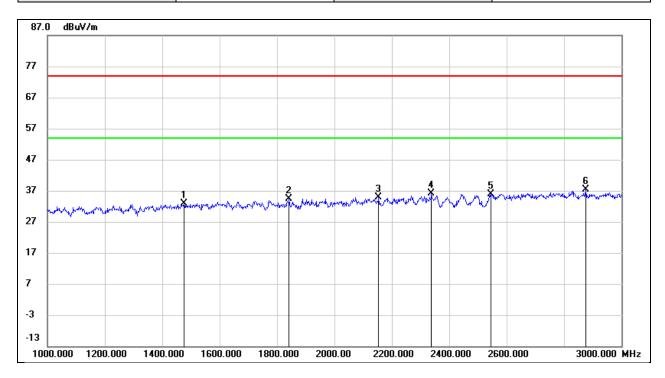
Test Mode:	SRD 2.4G	Frequency(MHz):	2410
Polarity:	Horizontal	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1302.000	45.91	-13.63	32.28	74.00	-41.72	peak
2	1726.000	46.14	-11.97	34.17	74.00	-39.83	peak
3	2122.000	45.12	-10.43	34.69	74.00	-39.31	peak
4	2444.000	44.21	-8.78	35.43	74.00	-38.57	peak
5	2656.000	43.95	-8.02	35.93	74.00	-38.07	peak
6	2832.000	44.12	-7.49	36.63	74.00	-37.37	peak



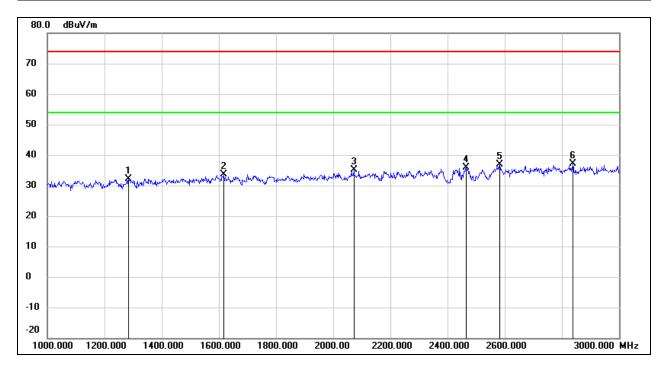
Test Mode:	SRD 2.4G	Frequency(MHz):	2410
Polarity:	Vertical	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1476.000	45.70	-12.82	32.88	74.00	-41.12	peak
2	1842.000	45.89	-11.58	34.31	74.00	-39.69	peak
3	2154.000	45.14	-10.27	34.87	74.00	-39.13	peak
4	2338.000	45.35	-9.32	36.03	74.00	-37.97	peak
5	2546.000	44.36	-8.36	36.00	74.00	-38.00	peak
6	2876.000	44.61	-7.35	37.26	74.00	-36.74	peak



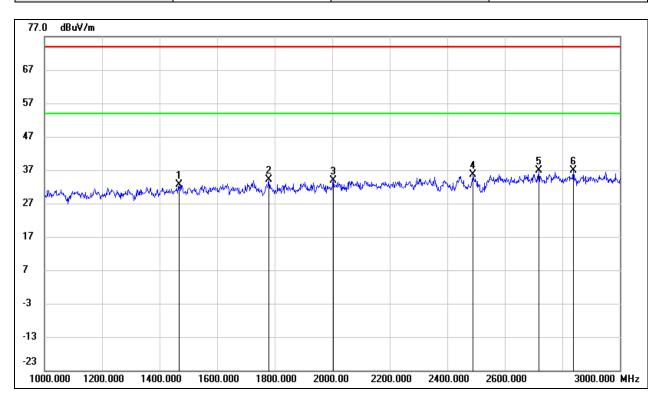
Test Mode:	SRD 2.4G	Frequency(MHz):	2442
Polarity:	Horizontal	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1472.000	46.29	-12.84	33.45	74.00	-40.55	peak
2	1784.000	46.56	-11.77	34.79	74.00	-39.21	peak
3	2182.000	44.35	-10.13	34.22	74.00	-39.78	peak
4	2442.000	46.35	-8.79	37.56	74.00	-36.44	peak
5	2558.000	45.71	-8.32	37.39	74.00	-36.61	peak
6	2902.000	43.87	-7.28	36.59	74.00	-37.41	peak



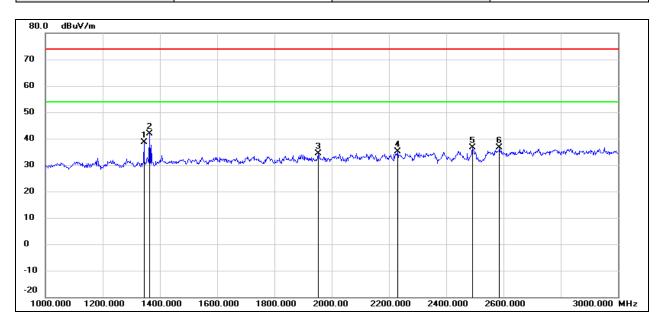
Test Mode:	SRD 2.4G	Frequency(MHz):	2442
Polarity:	Vertical	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1468.000	45.61	-12.86	32.75	74.00	-41.25	peak
2	1780.000	45.85	-11.79	34.06	74.00	-39.94	peak
3	2004.000	45.04	-11.04	34.00	74.00	-40.00	peak
4	2490.000	44.20	-8.55	35.65	74.00	-38.35	peak
5	2718.000	44.78	-7.84	36.94	74.00	-37.06	peak
6	2838.000	44.35	-7.46	36.89	74.00	-37.11	peak



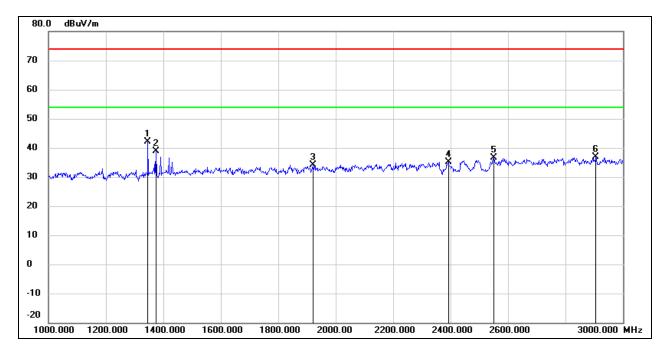
Test Mode:	SRD 2.4G	Frequency(MHz):	2473
Polarity:	Horizontal	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1344.000	52.14	-13.43	38.71	74.00	-35.29	peak
2	1364.000	55.23	-13.34	41.89	74.00	-32.11	peak
3	1952.000	45.70	-11.22	34.48	74.00	-39.52	peak
4	2230.000	44.90	-9.88	35.02	74.00	-38.98	peak
5	2492.000	45.11	-8.53	36.58	74.00	-37.42	peak
6	2586.000	44.77	-8.24	36.53	74.00	-37.47	peak



Test Mode:	SRD 2.4G	Frequency(MHz):	2473
Polarity:	Vertical	Test Voltage:	DC 3 V

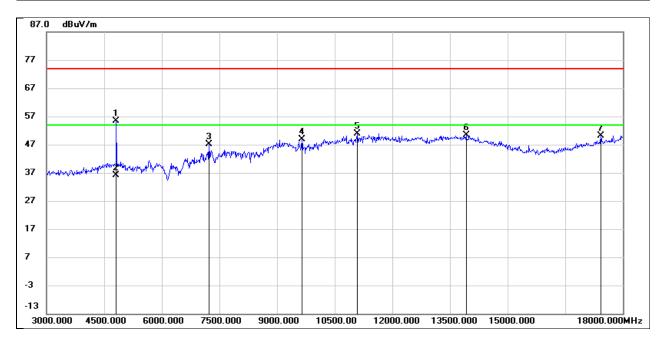


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1346.000	55.59	-13.42	42.17	74.00	-31.83	peak
2	1374.000	52.23	-13.30	38.93	74.00	-35.07	peak
3	1922.000	45.46	-11.32	34.14	74.00	-39.86	peak
4	2392.000	44.27	-9.05	35.22	74.00	-38.78	peak
5	2550.000	44.85	-8.33	36.52	74.00	-37.48	peak
6	2906.000	44.21	-7.27	36.94	74.00	-37.06	peak

REPORT NO.: 4791107528-RF-1 Page 38 of 53

8.3. SPURIOUS EMISSIONS (3 GHZ ~ 18 GHZ)

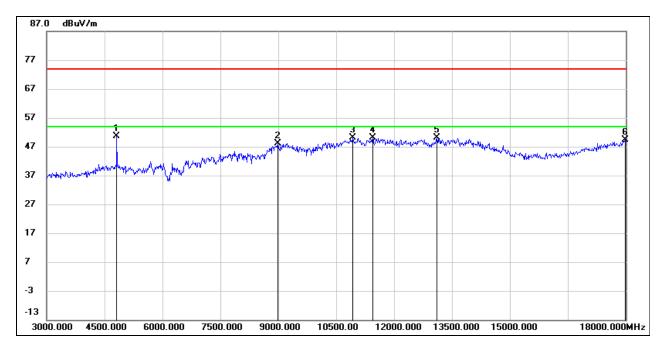
Test Mode:	SRD 2.4G	Frequency(MHz):	2410
Polarity:	Horizontal	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	55.64	-0.26	55.38	74.00	-18.62	peak
2	4815.000	/	/	34.89	54.00	-19.11	AVG
3	7230.000	40.57	6.53	47.10	74.00	-26.90	peak
4	9645.000	37.73	11.08	48.81	74.00	-25.19	peak
5	11085.000	35.78	15.08	50.86	74.00	-23.14	peak
6	13920.000	28.55	21.79	50.34	74.00	-23.66	peak
7	17430.000	27.71	22.47	50.18	74.00	-23.82	peak



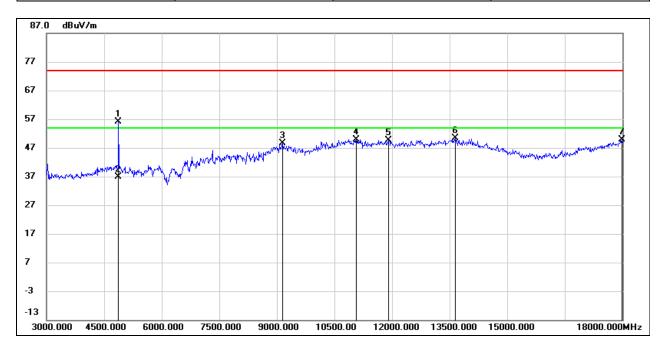
Test Mode:	SRD 2.4G	Frequency(MHz):	2410
Polarity:	Vertical	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	50.92	-0.26	50.66	74.00	-23.34	peak
2	8985.000	37.76	10.37	48.13	74.00	-25.87	peak
3	10935.000	35.63	14.54	50.17	74.00	-23.83	peak
4	11445.000	33.82	16.41	50.23	74.00	-23.77	peak
5	13110.000	30.99	19.20	50.19	74.00	-23.81	peak
6	17985.000	23.80	25.60	49.40	74.00	-24.60	peak



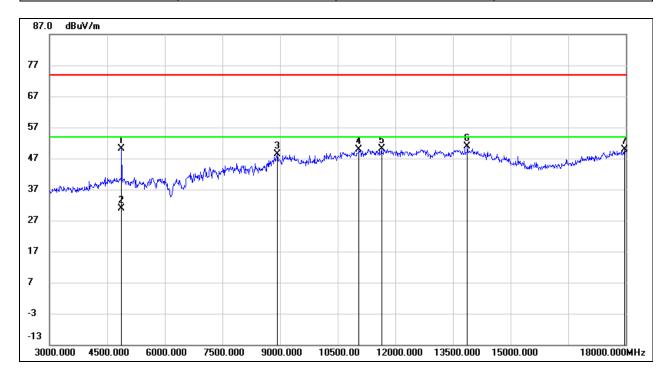
Test Mode:	SRD 2.4G	Frequency(MHz):	2442
Polarity:	Horizontal	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	56.27	-0.03	56.24	74.00	-17.76	peak
2	4875.000	/	/	35.75	54.00	-18.25	AVG
3	9150.000	37.98	10.54	48.52	74.00	-25.48	peak
4	11070.000	34.83	15.03	49.86	74.00	-24.14	peak
5	11910.000	31.92	17.72	49.64	74.00	-24.36	peak
6	13650.000	29.08	21.21	50.29	74.00	-23.71	peak
7	17985.000	24.27	25.60	49.87	74.00	-24.13	peak



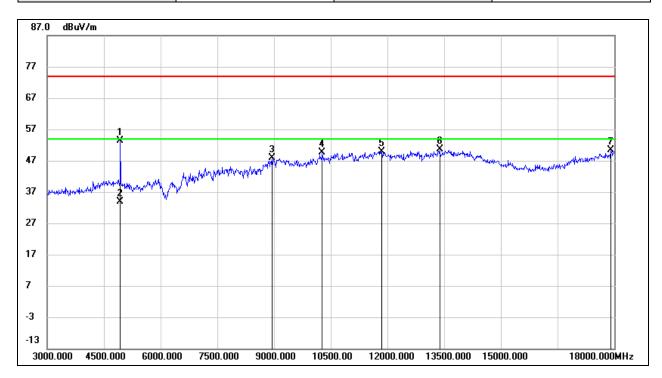
Test Mode:	SRD 2.4G	Frequency(MHz):	2442
Polarity:	Vertical	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	50.13	-0.03	50.10	74.00	-23.90	peak
2	4875.000	/	/	29.61	54.00	-24.39	AVG
3	8925.000	38.48	9.94	48.42	74.00	-25.58	peak
4	11055.000	34.84	14.96	49.80	74.00	-24.20	peak
5	11640.000	33.23	16.98	50.21	74.00	-23.79	peak
6	13875.000	29.25	21.70	50.95	74.00	-23.05	peak
7	17970.000	24.35	25.51	49.86	74.00	-24.14	peak



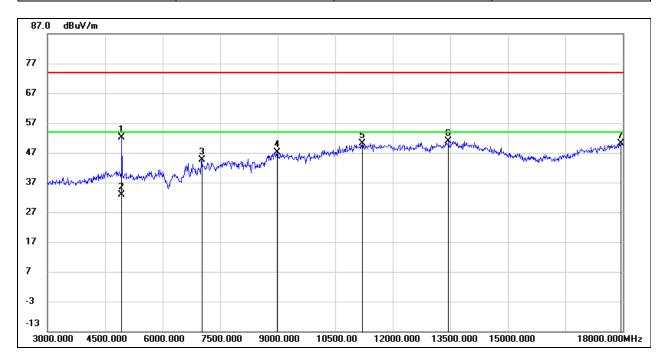
Test Mode:	SRD 2.4G	Frequency(MHz):	2473
Polarity:	Horizontal	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4935.000	53.08	0.20	53.28	74.00	-20.72	peak
2	4935.000	/	/	32.79	54.00	-21.21	AVG
3	8940.000	37.81	10.04	47.85	74.00	-26.15	peak
4	10275.000	36.97	12.54	49.51	74.00	-24.49	peak
5	11850.000	32.40	17.56	49.96	74.00	-24.04	peak
6	13380.000	30.17	20.38	50.55	74.00	-23.45	peak
7	17910.000	25.15	25.16	50.31	74.00	-23.69	peak



Test Mode:	SRD 2.4G	Frequency(MHz):	2473
Polarity:	Vertical	Test Voltage:	DC 3 V

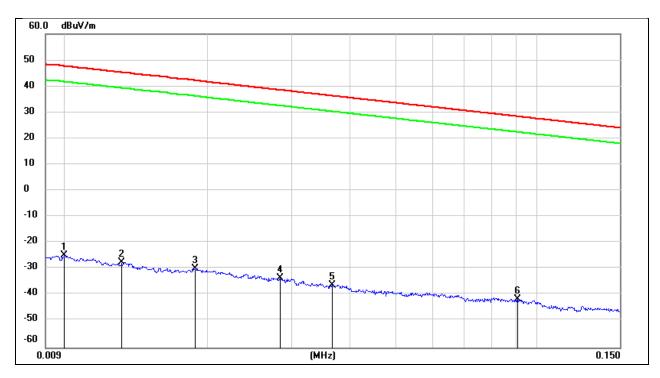


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4935.000	52.01	0.20	52.21	74.00	-21.79	peak
2	4935.000	/	/	31.72	54.00	-22.28	AVG
3	7020.000	37.96	6.67	44.63	74.00	-29.37	peak
4	8985.000	36.71	10.37	47.08	74.00	-26.92	peak
5	11205.000	34.56	15.52	50.08	74.00	-23.92	peak
6	13455.000	30.22	20.71	50.93	74.00	-23.07	peak
7	17940.000	24.91	25.34	50.25	74.00	-23.75	peak

REPORT NO.: 4791107528-RF-1 Page 44 of 53

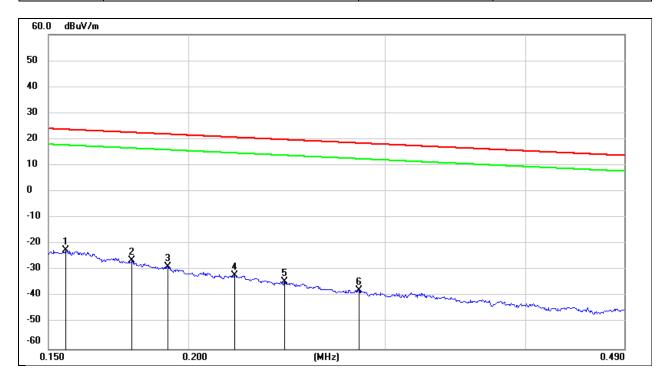
8.4. SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)

Test Mode:	SRD 2.4G	Frequency(MHz):	2473
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	0.0131	73.97	-101.38	-27.41	-78.91	45.25	-6.25	-72.66	peak
3	0.0188	71.64	-101.35	-29.71	-81.21	42.12	-9.38	-71.83	peak
4	0.0284	67.86	-101.38	-33.52	-85.02	38.54	-12.96	-72.06	peak
5	0.0366	65.37	-101.42	-36.05	-87.55	36.33	-15.17	-72.38	peak
6	0.0911	60.11	-101.72	-41.61	-93.11	28.41	-23.09	-70.02	peak

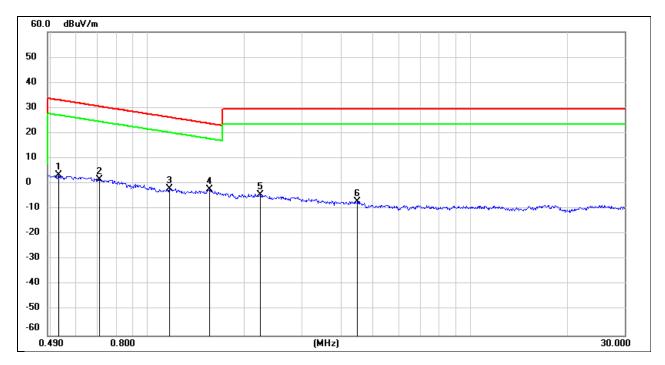
Test Mode:	SRD 2.4G	Frequency(MHz):	2473
Polarity:	Loop Antenna Face On To The EUT	Test Voltage	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Result	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuA/m)	(dBuV/m)	(dBuA/m)	(dB)	
1	0.1554	77.27	-101.65	-24.38	-75.88	23.77	-27.73	-48.15	peak
2	0.1794	74.27	-101.68	-27.41	-78.91	22.53	-28.97	-49.94	peak
3	0.1917	72.04	-101.7	-29.66	-81.16	21.95	-29.55	-51.61	peak
4	0.2326	68.82	-101.77	-32.95	-84.45	20.27	-31.23	-53.22	peak
5	0.3163	64.2	-101.87	-37.67	-89.17	17.6	-33.9	-55.27	peak
6	0.3881	59.9	-101.95	-42.05	-93.55	15.82	-35.68	-57.87	peak



Test Mode:	SRD 2.4G	Frequency(MHz):	2473
Polarity:	Loop Antenna Face On To The EUT	Test Voltage	DC 3.0 V

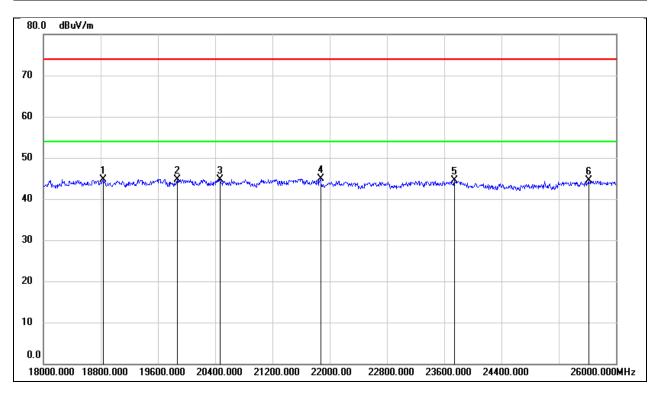


No.	Frequency	Reading	Correct	Result	Result	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuA/m)	(dBuV/m)	(dBuA/m)	(dB)	
1	0.5298	65.53	-62.08	3.45	-48.05	33.12	-18.38	-29.67	peak
2	0.7096	63.86	-62.12	1.74	-49.76	30.58	-20.92	-28.84	peak
3	1.1687	60.22	-62.19	-1.97	-53.47	26.25	-25.25	-28.22	peak
4	1.5564	59.68	-62.02	-2.34	-53.84	23.76	-27.74	-26.10	peak
5	2.2364	57.3	-61.76	-4.46	-55.96	29.54	-21.96	-34.00	peak
6	4.4739	54.38	-61.4	-7.02	-58.52	29.54	-21.96	-36.56	peak

REPORT NO.: 4791107528-RF-1 Page 47 of 53

8.5. SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)

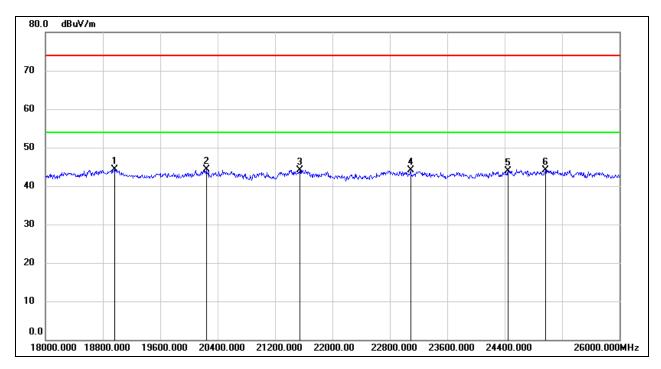
Test Mode:	SRD 2.4G	Frequency(MHz):	2473
Polarity:	Horizontal	Test Voltage:	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18832.000	50.05	-5.35	44.70	74.00	-29.30	peak
2	19872.000	50.11	-5.34	44.77	74.00	-29.23	peak
3	20472.000	50.19	-5.39	44.80	74.00	-29.20	peak
4	21872.000	49.39	-4.40	44.99	74.00	-29.01	peak
5	23744.000	47.65	-3.20	44.45	74.00	-29.55	peak
6	25616,000	45.68	-1.24	44.44	74.00	-29.56	peak



Test Mode:	SRD 2.4G	Frequency(MHz):	2473
Polarity:	Vertical	Test Voltage:	DC 3.0 V

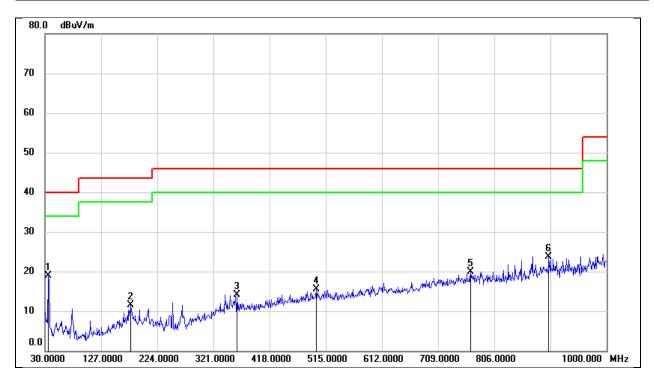


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18960.000	49.51	-5.25	44.26	74.00	-29.74	peak
2	20240.000	49.82	-5.61	44.21	74.00	-29.79	peak
3	21544.000	48.76	-4.63	44.13	74.00	-29.87	peak
4	23088.000	47.52	-3.41	44.11	74.00	-29.89	peak
5	24448.000	46.42	-2.42	44.00	74.00	-30.00	peak
6	24968.000	46.26	-2.14	44.12	74.00	-29.88	peak

REPORT NO.: 4791107528-RF-1 Page 49 of 53

8.6. SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)

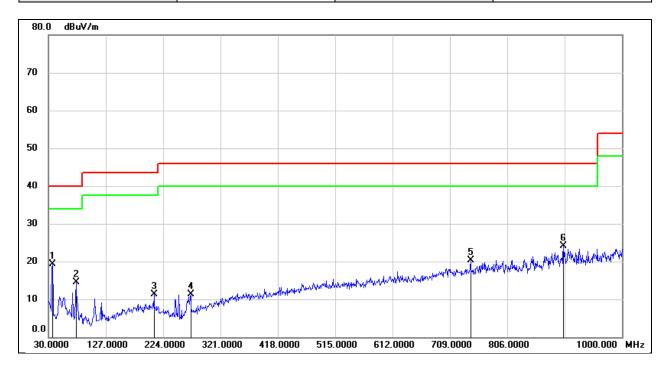
Test Mode:	SRD 2.4G	Frequency(MHz):	2473
Polarity:	Horizontal	Test Voltage:	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	35.8200	37.66	-18.70	18.96	40.00	-21.04	QP
2	178.4100	27.46	-15.93	11.53	43.50	-31.97	QP
3	361.7400	26.56	-12.44	14.12	46.00	-31.88	QP
4	498.5100	25.89	-10.37	15.52	46.00	-30.48	QP
5	765.2600	26.42	-6.43	19.99	46.00	-26.01	QP
6	900.0900	28.21	-4.47	23.74	46.00	-22.26	QP



Test Mode:	SRD 2.4G	Frequency(MHz):	2473
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	36.7900	38.08	-18.83	19.25	40.00	-20.75	QP
2	76.5600	35.32	-20.76	14.56	40.00	-25.44	QP
3	208.4800	27.46	-16.22	11.24	43.50	-32.26	QP
4	270.5600	28.29	-16.89	11.40	46.00	-34.60	QP
5	743.9200	27.18	-6.82	20.36	46.00	-25.64	QP
6	901.0600	28.53	-4.47	24.06	46.00	-21.94	QP

REPORT NO.: 4791107528-RF-1 Page 51 of 53

9. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

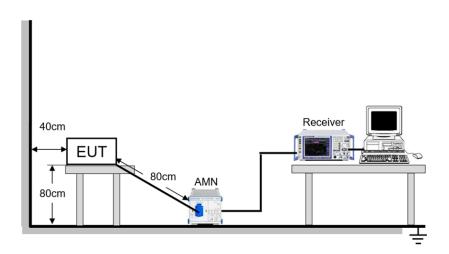
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

Temperature	/	Relative Humidity	/
Atmosphere Pressure	/	Test Voltage	/



REPORT NO.: 4791107528-RF-1

Page 52 of 53

TEST RESULTS

Not Applicable.



REPORT NO.: 4791107528-RF-1

Page 53 of 53

10. 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 REPOR	— T