

TEST REPORT

Product Name: RC CARE BEAR CLOUD MOBILE

Model Number : ET-0825, ET-0826, ET-0834, ET-0842

FCC ID : 2ADM5-ET-0825-27

Prepared for : Zeeva International Limited

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TEST REPORT DESCRIPTION

Applicant : Zeeva International Limited

Address Suite 1007B, 10th Floor, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong

Kong, China

Manufacturer : Zeeva International Limited

Address Suite 1007B, 10th Floor, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong

Kong, China

EUT : RC CARE BEAR CLOUD MOBILE

Model Name : ET-0825, ET-0826, ET-0834, ET-0842

Trademark : N/A

Measurement Procedure Used:

APPLICABLE STANDARDS				
STANDARD TEST RESULT				
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS			

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.227.

Date of Test :	April 03, 2024 to April 16, 2024
Prepared by :	Warren Deng
	Warren Deng /Editor
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reviewer.	
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Approved & Authorized Signer :	
	Sam Ly / Manager

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Modified History

Version	Report No.	Revision Date	Summary
	EDG2404030242E00101R	1	Original Report





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1. GENERAL INFORMATION

1.1 Product Description

Characteristics	Description	
Product Name	RC CARE BEAR CLOUD MOBILE	
Model number	ET-0825, ET-0826, ET-0834, ET-0842 All models are the same except the model name Appearance color and RX Remote Controlled Toys Here, ET-0825 is selected for all tests	
SKU#	9139368	
UPC#	1922341027203	
Color	WHITE MULTI	
Power Supply	DC 3V from Battery	
Operating Frequency Range	27.145MHz	
Number of Channels	1 channel	
Max Field Strength	34.40 dBuV@3m	
Antenna Type	Hose antenna	
Temperature Range:	-10°C ~ +60°C	
Remark: The EUT	continues to transmit while button is being pressed.	

Remark: The EUT continues to transmit while button is being pressed. Modulation by IC, and type is pulse modulation.

Note: for more details, please refer to the User's manual of the EUT.

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2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. the Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013

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2.4 Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

Frequency range	Limits dB(uV)			
MHz	Quasi-peak Average			
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		

Note

(2) Radiated Emission

- a. The field strength of any emission within this band (26.96-27.28 MHz.) shall not exceed 10.000 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in § 15.35 for limiting peak emissions apply.
- b. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in § 15.209.

Frequency (MHz)	Field strength μV/m	Distance(m)	Field strength at 3m dBμV/m
1.705-30	30	30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

- Remark: 1. Emission level in dBuV/m=20 log (uV/m)
 - 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 - 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205
 - 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of ξ15.205, then the general radiated emission limits in ξ 15.209 apply.

^{1.} The lower limit shall apply at the transition frequencies

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50



2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

EUT

Table 2-1 Equipment Used in Tested System

Item	Equipment	Trademark	Model No.	FCC ID	Series No.	Note
1	RC CARE BEAR CLOUD MOBILE	N/A	ET-0825, ET-0826, ET-0834, ET-0842	2ADM5-ET-0825	N/A	EUT

Note:

(1) Unless otherwise denoted as EUT in 『Remark』 column , device(s) used in tested system is a support equipment.

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3. Summary of Test Results

FCC Rules	Description Of Test	Result
§15.207	Conducted Emission	N/A
§15.227	Radiated Emission	Compliant
§15.227	Bandwidth Test	Compliant
§15.203	Antenna Requirement	Compliant





4. Description of test modes

The EUT (RC CARE BEAR CLOUD MOBILE) has been tested under normal operating condition.

The EUT stay in continuous transmitting mode. The Frequency 27.145MHz is chosen for testing.

For Radiated: The EUT's antenna was pre-tested under the following modes:

Test Mode	Description
Mode A	X-Y axis
Mode B	Y-Z axis
Mode C	X-Z axis

From the above modes, the worst case was found in Mode A. Therefore only the test data of the mode was recorded in this report.

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5. Test Facility



Site Description EMC Lab.

: Accredited by CNAS

The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2018

The Certificate Registration Number is L3150

Accredited by FCC

Designation Number: CN1300

Test Firm Registration Number: 945551

Accredited by A2LA

The Certificate Registration Number is 4321.02

Accredited by Industry Canada

The Certificate Registration Number is CN0113

Name of Firm : EMTEK (DONGGUAN) CO., LTD.

Site Location : -1&2/F.,Building 2, Zone A, Zhongda Marine Biotechnology Research

and Development Base, No.9, Xincheng Avenue, Songshanhu

High-technology Industrial Development Zone, Dongguan, Guangdong,

China

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6. TEST SYSTEM UNCERTAINTY

Access to the World

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	±1x10^-5
Maximum Peak Output Power Test	±1.0dB
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Power Density	±2.0dB
Occupied Bandwidth Test	±1.0dB
Band Edge Test	±3dB
All emission, radiated	±3dB
Antenna Port Emission	±3dB
Temperature	±0.5°C
Humidity	±3%

Measurement Uncertainty for a level of Confidence of 95%



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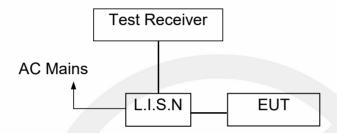


7. Conducted Emissions Test

7.1 Measurement Procedure:

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- **2.** Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

7.2 Test SET-UP (Block Diagram of Configuration)



7.3 Measurement Equipment Used:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	100137	2023/5/11	1Year
AMN	Rohde&Schwarz	ENV216	101209	2023/5/11	1Year
AMN	Rohde&Schwarz	ENV216	100017	2023/5/11	1Year
RF Switching Unit	CDS	RSU-M2	38401	2023/5/11	1Year
AMN	Schwarzbeck	NNLK8121	8121-641	2023/5/11	1Year
AMN	Rohde&Schwarz	ESH3-Z6	101101	2023/5/11	1Year
AMN	Rohde&Schwarz	ESH3-Z6	101102	2023/5/11	1Year
Power Splitters & Dividers	Weinschel Associates	WA1506A	A1066	2023/5/11	1Year
Current Probe	FCC	F-52	8377	2023/5/11	1Year
Passive voltage probe	Rohde&Schwarz	ESH2-Z3	100122	2023/5/11	1Year

7.4 Measurement Result:

N/A.

7.5 Conducted Measurement Photos:

N/A

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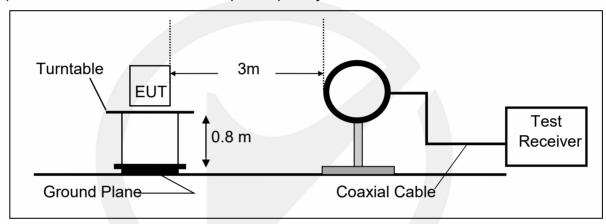


8.1 Measurement Procedure

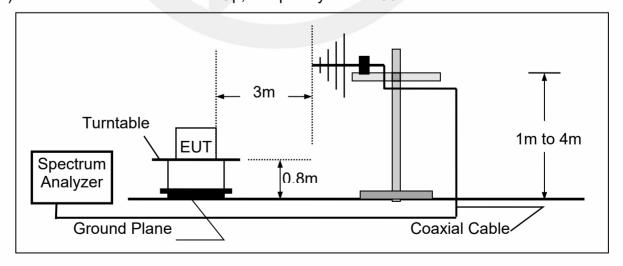
- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
 - 4. Repeat above procedures until all frequency measured were complete.

8.2 Test SET-UP (Block Diagram of Configuration)

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



(B) Radiated Emission Test Set-Up, Frequency Above 30MHz



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8.3 Measurement Equipment Used:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	101415	2023/5/11	1Year
Bi-log Hybrid Antenna	Schwarzbeck	VULB9163	141	2023/5/15	1Year
Pre-Amplifie	HP	8447F	OPTH64	2023/5/11	1 Year
Signal Analyzer	R&S	FSV30	103039	2023/5/11	1 Year
Horn Antenna	Schwarzbeck	BBHA9120D	1272	2023/5/15	1Year
Horn Antenna	Schwarzbeck	BBHA9170	9170-567	2023/5/15	1Year
Pre-Amplifie	LUNAR EM	PM1-18-40	J10100000081	2023/5/11	1Year
Loop antenna	Schwarzbeck	FMZB1519	1519-012	2023/5/15	1Year





8.4 Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3
	0	38

Restricted bands of operation

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)

Remark 1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

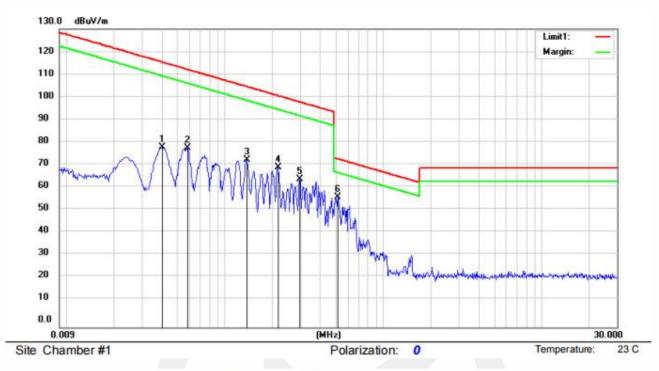
Field Strength of the fundamental signal

ricia offerigiti of the faridamental signal						
FCC Part15 (15.227) , Subpart C						
Fundamental Frequency	Fundamental Frequency Field Strength					
	Of Fundamental					
27.145MHz	PK:100 dBuV/m at 3m	AV:80 dBuV/m at 3m				
	distance	distance				

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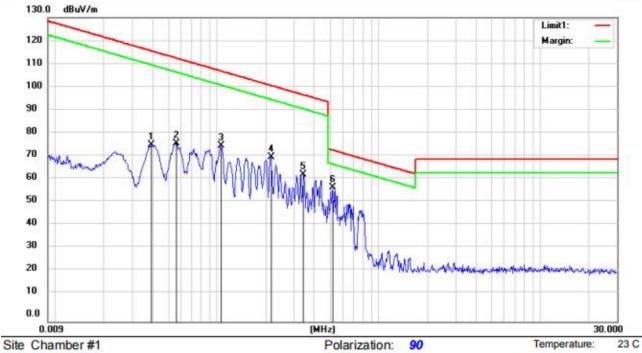


No.	Mk.	Freq.	Reading Level	Ant. Factor	Pre Amp Gain	Cable	Measure- ment	Limit	Over		н	Degree	
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Detector	cm	deg.	Commen
1		0.0400	86.70	20.28	28.54	0.03	78.47	115.55	-37.08	peak			
2		0.0580	86.41	20.23	28.53	0.03	78.14	112.33	-34.19	peak			
3		0.1373	81.64	20.03	28.65	0.08	73.10	104.84	-31.74	peak			
4		0.2162	78.74	20.01	28.96	0.08	69.87	100.90	-31.03	peak			
5		0.2968	73.64	20.01	29.28	0.08	64.45	98.15	-33.70	peak			
6	*	0.5151	66.45	20.03	29.74	0.09	56.83	73.37	-16.54	peak			

*:Maximum data x:Over limit !:over margin Operator: Ccyf

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No. I	Иk.	Freq.	Reading Level	Ant. Factor	Pre Amp Gain	Cable	Measure- ment	Limit	Over		н	Degree	
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Detector	cm	deg.	Comment
1		0.0393	83.65	20.28	28.54	0.03	75.42	115.70	-40.28	peak			
2		0.0560	84.42	20.24	28.53	0.03	76.16	112.63	-36.47	peak			
3		0.1060	83.47	20.11	28.52	0.08	75.14	107.09	-31.95	peak			
4		0.2162	79.26	20.01	28.96	0.08	70.39	100.90	-30.51	peak			
5		0.3435	72.10	20.02	29.38	0.08	62.82	96.88	-34.06	peak			

57.33

73.30 -15.97 peak

0.09

*: Maximum data Operator: Ccyf x:Over limit !:over margin

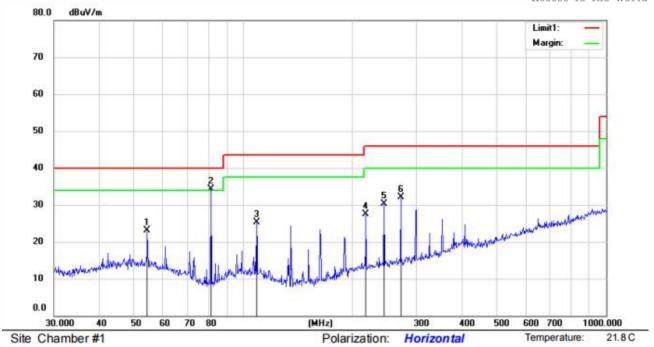
0.5194 66.96

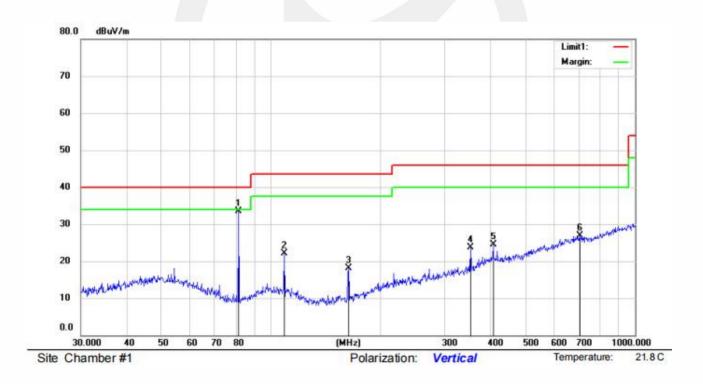
20.03

29.75



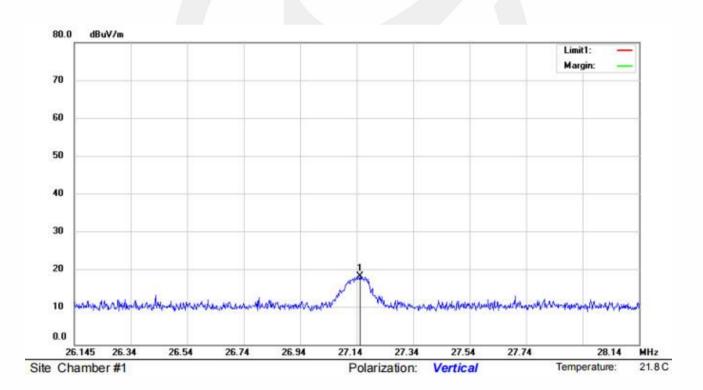












Remark:

- 1. Measurement $(dB\mu V/m)$ = Antenna Factor(dB) -Amp Factor(dB) +Cable Loss(dB) + Reading $(dB\mu V/m)$
- 2. Over (dB) = Measurement (dB μ V/m) Limit (dB μ V/m)



Test Result: PASS Test By: Xia

Frequency Range: 30M-1GHz Fundamental Frequency: 27.145 MHz

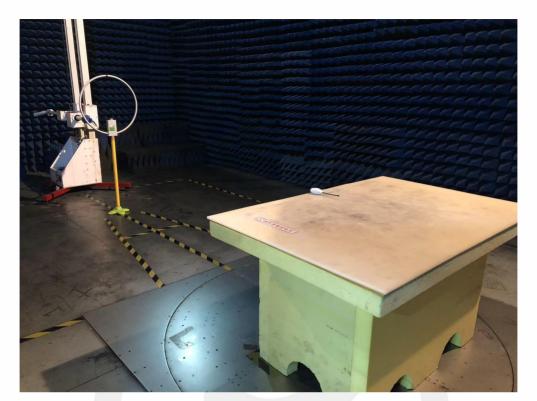
Frequency (MHz)	Ant.Pol. (V/H)	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Note
27.14	Н	14.22	100.00	-85.78	Peak
27.14	Н	8.97	80.00	-71.03	QP
54.26	Н	23.10	40.00	-16.90	QP
81.50	Н	34.40	40.00	-5.60	QP
108.65	Н	25.34	46.00	-20.66	QP
217.54	Н	27.45	46.00	-18.55	QP
244.23	Н	30.25	46.00	-15.75	QP
271.32	Н	32.15	46.00	-13.85	QP
27.16	V	18.11	100.00	-81.89	Peak
27.16	V	11.25	80.00	-68.75	QP
81.50	V	33.56	40.00	-6.44	QP
108.65	V	22.15	46.00	-23.85	QP
163.18	V	18.03	46.00	-27.97	QP
352.94	V	23.76	46.00	-22.24	QP
407.51	V	24.52	46.00	-21.48	QP
704.23	V	26.86	46.00	-19.14	QP

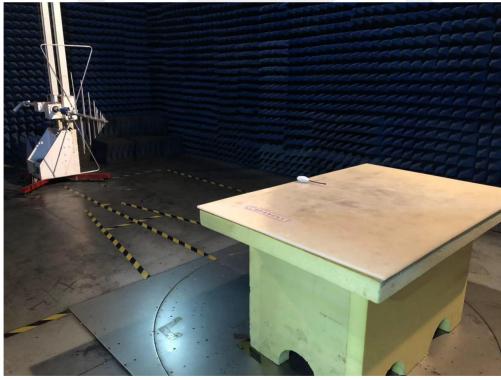
No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.209.

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8.6 Radiated Measurement Photos:







9. Occupied Bandwidth

9.1 Measurement Procedure

- 1. Set EUT as normal operation
- 2. Set SPA Center Frequency = fundamental frequency, RBW=1Hz,VBW= 3Hz
- 3. Set SPA Max hold. Mark peak.

9.2 Test SET-UP (Block Diagram of Configuration)



9.3 Measurement Equipment Used:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Signal Analyzer	R&S	FSV30	103039	2023/5/11	1 Year

9.4 Measurement Requirements:

Pass.

Limits for 26dB Bandwidth of Fundamental Emission:

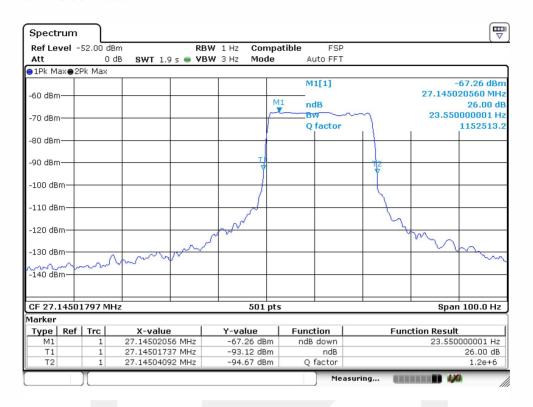
Frequency	26dB Bandwidth	Limits
(MHz)	(Hz)	(MHz)
27.145	23.55	Within 27.141-27.150

Refer to attached data chart.

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Band Width Test Data



10.Antenna Application



10.1 Antenna requirement

The EUT'S antenna is met the requirement of FCC part 15C section 15.203.

Systems operating in the 27.145MHz that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

10.2 Result

The EUT's antenna is permanent attached antenna, external antenna. The antenna is not replaceable or user serviceable. The requirement of FCC part 15C section 15.203 is met.



*** End of Report ***

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