

TEST REPORT

Applicant	WEI SHENG DA TOYS FACTORY
Address	CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

Manufacturer or Supplier	WEI SHENG DA TOYS FACTORY
Address	CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA
Product	4 THE REMOTE CONTROL CAR
Brand Name	N/A
Model	CV8818-50ABCDEFGHJK
Additional Model & Model Difference:	CV8818-51ABCDEFGHJK, CV8818-52ABCDEFGHJK, CV8818-53ABCDEFGHJK, CV8818-54ABCDEFGHJK, etc; See items 3.1
Date of tests	Apr. 19, 2017 ~ May 27, 2017

the tests have been carried out according to the requirements of the following standards:

☒ FCC Part 15, Subpart C, Section 15.227

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Andy Zhu Project Engineer / EMC Department	Approved by Glyn He Supervisor/ EMC Department
	

Date: Jul. 11, 2017

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF170419N047	Original release	May 27, 2017

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C , SECTION 15.227(2012-10)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
§15.207 (a)	Conducted Emission	N/A	EUT is powered by battery
§15.209 §15.227	Radiated Emission	PASS	Compliant
§15.215(c)	20dB Bandwidth Test	PASS	Compliant

2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Radiated emissions	9KHz ~ 30MHz	2.90dB
	30MHz ~ 1GHz	4.06dB
	1GHz ~ 18GHz	4.58dB
	18GHz ~ 40GHz	4.80dB

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

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	4 THE REMOTE CONTROL CAR
MODEL NO.	CV8818-50ABCDEFGHJK
ADDITIONAL MODELS	CV8818-51ABCDEFGHJK, CV8818-52ABCDEFGHJK, CV8818-53ABCDEFGHJK, CV8818-54ABCDEFGHJK, CV8818-55ABCDEFGHJK, CV8818-56ABCDEFGHJK, CV8818-57ABCDEFGHJK, CV8818-58ABCDEFGHJK, CV8818-59ABCDEFGHJK, CV8818-60ABCDEFGHJK, CV8818-61ABCDEFGHJK, CV8818-62ABCDEFGHJK, CV8818-63ABCDEFGHJK, CV8818-64ABCDEFGHJK, CV8818-65ABCDEFGHJK, CV8818-66ABCDEFGHJK, CV8818-67ABCDEFGHJK, CV8818-68ABCDEFGHJK, CV8818-69ABCDEFGHJK, CV8818-70ABCDEFGHJK, CV8818-71ABCDEFGHJK, CV8818-72ABCDEFGHJK, CV8818-73ABCDEFGHJK, CV8818-74ABCDEFGHJK, CV8818-75ABCDEFGHJK, CV8818-76ABCDEFGHJK, CV8818-77ABCDEFGHJK, CV8818-78ABCDEFGHJK, CV8818-79ABCDEFGHJK, CV8818-80ABCDEFGHJK, CV8818-81ABCDEFGHJK, CV8818-82ABCDEFGHJK, CV8818-83ABCDEFGHJK, CV8818-84ABCDEFGHJK, CV8818-85ABCDEFGHJK, CV8818-86ABCDEFGHJK, CV8818-87ABCDEFGHJK, CV8818-88ABCDEFGHJK, CV8818-1, CV8818-2, CV8818-3, CV8818-4, CV8818-5, CV8818-6, CV8818-7, CV8818-8, CV8818-9, CV8818-10, CV8818-11, CV8818-12, CV8818-13, CV8818-14, CV8818-15, CV8818-16, CV8818-17, CV8818-18, CV8818-19, CV8818-20, CV8818-21, CV8818-22, CV8818-23, CV8818-24, CV8818-25, CV8818-26, CV8818-27, CV8818-28, CV8818-29, CV8818-30, CV8818-31, CV8818-32, CV8818-33, CV8818-34, CV8818-35, CV8818-36, CV8818-37, CV8818-38, CV8818-39, CV8818-40, CV8818-41, CV8818-42, CV8818-43, CV8818-44, CV8818-45, CV8818-46, CV8818-47, CV8818-48, CV8818-49, CV8818-50, CV8818-51, CV8818-52, CV8818-53, CV8818-54, CV8818-55, CV8818-56, CV8818-57, CV8818-58, CV8818-59, CV8818-60, CV8818-61, CV8818-62, CV8818-63, CV8818-64, CV8818-65, CV8818-66, CV8818-67, CV8818-68, CV8818-69, CV8818-70, CV8818-71, CV8818-72, CV8818-73, CV8818-74, CV8818-75, CV8818-76, CV8818-77, CV8818-78, CV8818-79, CV8818-80, CV8818-81, CV8818-82, CV8818-83, CV8818-84, CV8818-85, CV8818-86, CV8818-87, CV8818-88, CV8818-89, CV8818-90, CV8818-91, CV8818-92, CV8818-93, CV8818-94,



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	CV8818-95, CV8818-96, CV8818-97, CV8818-98, CV8818-99, CV8818-100, 8818-22, CV8818-66, 0122, CV8818-100ABCDEF GHIJK, CV8818-101ABCDEF GHIJK, CV8818-102ABCDEF GHIJK, CV8818-103ABCDEF GHIJK, CV8818-104ABCDEF GHIJK, CV8818-105ABCDEF GHIJK, CV8818-106ABCDEF GHIJK, CV8818-107ABCDEF GHIJK, CV8818-108ABCDEF GHIJK, CV8818-109ABCDEF GHIJK, CV8818-110ABCDEF GHIJK, CV8818-111ABCDEF GHIJK, CV8818-112ABCDEF GHIJK, CV8818-113ABCDEF GHIJK, CV8818-114ABCDEF GHIJK, CV8818-115ABCDEF GHIJK, CV8818-116ABCDEF GHIJK, CV8818-117ABCDEF GHIJK, CV8818-118ABCDEF GHIJK, CV8818-119ABCDEF GHIJK, CV8818-120ABCDEF GHIJK, CV8818-121ABCDEF GHIJK, CV8818-122ABCDEF GHIJK, CV8818-123ABCDEF GHIJK, CV8818-124ABCDEF GHIJK, CV8818-125ABCDEF GHIJK, CV8818-126ABCDEF GHIJK, CV8818-127ABCDEF GHIJK, CV8818-128ABCDEF GHIJK, CV8818-129ABCDEF GHIJK, CV8818-130ABCDEF GHIJK, CV8818-131ABCDEF GHIJK, CV8818-132ABCDEF GHIJK, CV8818-133ABCDEF GHIJK, CV8818-134ABCDEF GHIJK, CV8818-135ABCDEF GHIJK, CV8818-136ABCDEF GHIJK, CV8818-137ABCDEF GHIJK, CV8818-138ABCDEF GHIJK, CV8818-139ABCDEF GHIJK, CV8818-140ABCDEF GHIJK, CV8818-141ABCDEF GHIJK, CV8818-142ABCDEF GHIJK, CV8818-143ABCDEF GHIJK, CV8818-144ABCDEF GHIJK, CV8818-145ABCDEF GHIJK, CV8818-146ABCDEF GHIJK, CV8818-147ABCDEF GHIJK, CV8818-148ABCDEF GHIJK, CV8818-149ABCDEF GHIJK, CV8818-150ABCDEF GHIJK, 8818-22, CV8818-77, CV8818-66, CV8818-1, CV8818-2 , CV8818-3, CV8818-4, CV8818-5, CV8818-6, CV8818-7, CV8818-8, CV8818-9, CV8818-10, CV8818-42ABCDFE, CV8818-43ABCDFE, CV8818-44ABCDFE, CV8818-45ABCDFE, CV8818-46ABCDFE, CV8818-47ABCDFE, CV8818-48ABCDFE, CV8818-49ABCDFE, CV8818-50ABCDFE, CV8818-51, CV8818-52, CV8818-53, CV8818-54, CV8818-55, CV8818-56ABCDFE, CV8818-57ABCDFE, CV8818-58ABCDFE, CV8818-59ABCDFE, CV8818-60ABCDFE, CV8818-61ABCDFE, CV8818-62ABCDFE, CV8818-63ABCDFE, CV8818-64ABCDFE, CV8818-65ABCDFE, CV8818-66ABCDFE, CV8818-67ABCDFE, CV8818-68ABCDFE, CV8818-69ABCDFE, CV8818-70ABCDFE, CV8818-71ABCDFE, CV8818-72ABCDFE, CV8818-73ABCDFE, CV8818-74ABCDFE, CV8818-75ABCDFE, CV8818-76ABCDFE, CV8818-77ABCDFE, CV8818-78ABCDFE, CV8818-79ABCDFE, CV8818-80ABCDFE, CV8818-81ABCDFE, CV8818-82ABCDFE, CV8818-83ABCDFE, CV8818-84ABCDFE,
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	CV8818-85ABCDFE, CV8818-86ABCDFE, CV8818-87ABCDFE, CV8818-88ABCDFE, CV8818-89ABCDFE, CV8818-90ABCDFE, CV8818-91ABCDFE, CV8818-92ABCDFE, CV8818-93ABCDFE, CV8818-94ABCDFE, CV8818-95ABCDFE, CV8818-96ABCDFE, CV8818-97ABCDFE, CV8818-98ABCDFE, CV8818-99ABCDFE, CV8818-100ABCDFE, 8818-22ABCDFE, CV8818-66ABCDFE,0122ABCDFE, CV888-1ABCDEF, CV888-2ABCDEF, CV888-3ABCDEF, CV888-4ABCDEF, CV888-5ABCDEF, CV888-6ABCDEF, CV888-7ABCDEF, CV888-8ABCDEF, CV888-9ABCDEF, CV888-10ABCDEF, CV888-11ABCDEF, CV888-12ABCDEF, CV888-13ABCDEF, CV888-14ABCDEF, CV888-15ABCDEF, CV888-16ABCDEF, CV888-17ABCDEF, CV888-18ABCDEF, CV888-19ABCDEF, CV888-20ABCDEF, CV848-1, CV858-1, CV858-2, CV858-3, CV858-4, CV858-5, CV858-6, CV858-7, CV858-8, CV858-9, CV858-10, CV858-11, CV858-12, CV858-13, CV858-14, CV858-15, CV858-16, CV858-17, CV858-18, CV858-19, CV858-20, CV858-21, CV858-22, CV858-23, CV858-24, CV858-25, CV858-26, CV858-27, CV878, CV878-6, CV878-2, CV868, CV868-6, CV868-2, CV898, CV898-6, CV898-2, CV428A-2, CV848-12, CV888-12, CV858-12, CV858-28, CV858-29, CV858-30, CV858-31, CV858-32, CV858-33, CV858-34, CV858-35, CV858-36, CV858-37, CV858-38, CV858-39, CV858-40, CV858-41, CV858-42, CV858-43, CV858-44, CV858-45, CV858-46, CV858-47, CV858-48, CV858-49, CV858-50, CV858-51, CV858-52, CV858-53, CV858-54, CV858-55, CV858-56, CV858-57, CV858-58, CV858-59, CV858-60, CV858-61, CV858-62, CV858-63, CV858-64, CV858-65, CV858-66
FCC ID	2AL7W-CV8818778812
NOMINAL VOLTAGE	DC 3V(2*AA*1.5V) from Battery
MODULATION TYPE	ASK
OPERATING FREQUENCY	27.145MHz
NUMBER OF CHANNEL	1
ANTENNA TYPE	Spring Antenna with 0dBi gain
I/O PORTS	Refer to user's manual

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.



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3. Please refer to the EUT photo document (Reference No.: 170419N047) for detailed product photo.
4. Additional models (See above table) are identical with the test model CV8818-50ABCDEFGHIIJK except the export country and model no. for trading purpose.



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3.2 DESCRIPTION OF TEST MODES

The EUT was tested under the following mode.

FREQUENCY	TEST MODES
27.145 MHz	Transmitting

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C, 15.227

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit without any other necessary accessories or support units.

4 TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (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
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

According to §15.227(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Peak] [μV/m]	Field Strength of Fundamental Emission [Average] [μV/m]
26.96 – 27.28	100,000 (100 dBμV/m)	10,000 (80 dBμV/m)

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 TEST INSTRUMENTS

9KHz~30MHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Feb. 27,17	Feb. 26,18
Loop antenna (9KHz ~30MHz)	Daze	ZN30900A	0708	Mar. 12,17	Mar. 11,18
Amplifier (9kHz-1GHz)	SONOMA	310D	186955	Mar. 04,17	Mar. 03, 18
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8 .8m	NSEMC006	Mar. 06,17	Mar. 05,18
Test Software	ADT	ADT_Radiated _V8.7.07	N/A	N/A	N/A

- NOTE:** 1. The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in 10m Chamber
3. The FCC Site Registration No. is 502831.

30MHz~1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Mar. 11,17	Mar. 10,18
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 14, 16	Jul. 13, 17
Amplifier	Burgeon	BPA-530	100220	Apr. 05,17	Apr. 04,18
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Mar. 06,17	Mar. 05,18
Test software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A

NOTE:

1. The test was performed in 966 Chamber.
2. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 502831.

4.1.3 TEST PROCEDURES

The basic test procedure was in accordance with ANSI C63.10 (section 6).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level.
- g. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

NOTE:

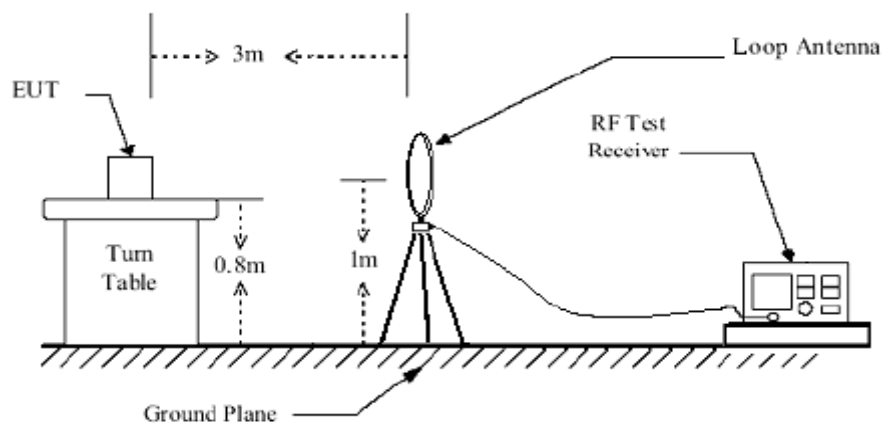
1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. $\text{Emission level(dBuV/m)} = \text{Raw Value(dBuV)} + \text{Correction Factor(dB/m)}$
3. $\text{Correction Factor(dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Factor (dB)}$
4. $\text{Margin value} = \text{Emission level} - \text{Limit value.}$
5. $\text{Fundamental AV value} = \text{PK Emission} + \text{duty cycle.}$

4.1.4 DEVIATION FROM TEST STANDARD

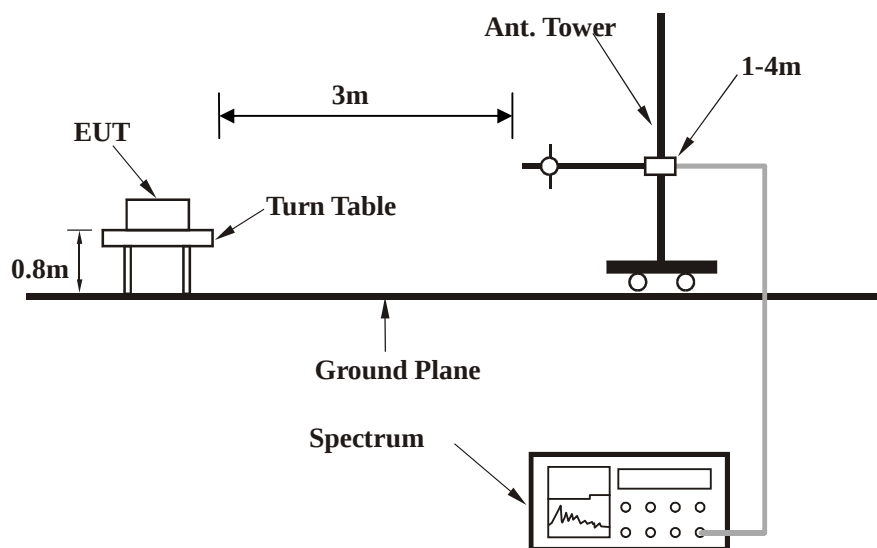
No deviation.

4.1.5 TEST SETUP

Below 30MHz



30MHz~1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

- Turned on the power of equipment.
- Hold down the TX of button, then the EUT was operating.
- EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

4.1.7 TEST RESULTS

FIELD STRENGTH OF FUNDAMENTAL

ANTENNA POLARITY: 0°

No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
*	27.13(PK)	-8.74	64.94	56.20	100	-43.80
*	27.13(AV)	-5.31	-	50.89	80	-29.11

ANTENNA POLARITY: 90°

No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
*	27.13(PK)	-8.74	70.85	62.11	100	-37.89
*	27.13(AV)	-5.31	-	56.80	80	-23.20

- REMARKS:**
- Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 - Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 - The other emission levels were very low against the limit.
 - Margin value = Emission level – Limit value.
 - " * ": Fundamental frequency.
 - The average value of fundamental frequency is: Average value = Peak value +AV factor, where the AV factor is calculated from following formula: AV factor=20 log (Duty cycle) = 20 log (54.29%) = -5.31dB, Please see page 15~16 for plotted duty.

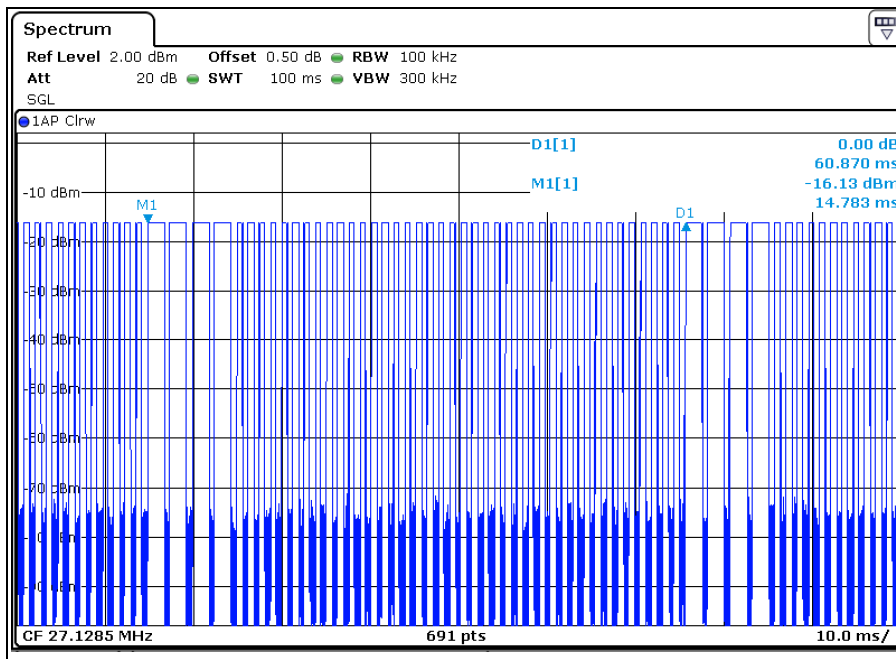
Duty Cycle:

$$T_p = 60.87\text{ms}$$

$$\begin{aligned} T_{on} &= T_{on1} * \text{Number} + T_{on2} * \text{Number} \\ &= 1.8841 * 4 + 0.6377 * 40 \\ &= 33.0444\text{ms} \end{aligned}$$

$$\text{Duty Cycle} = T_{on} / T_p * 100\% = 33.0444 / 60.87 = 54.29\%$$

$$T_p = 60.87\text{ms}$$

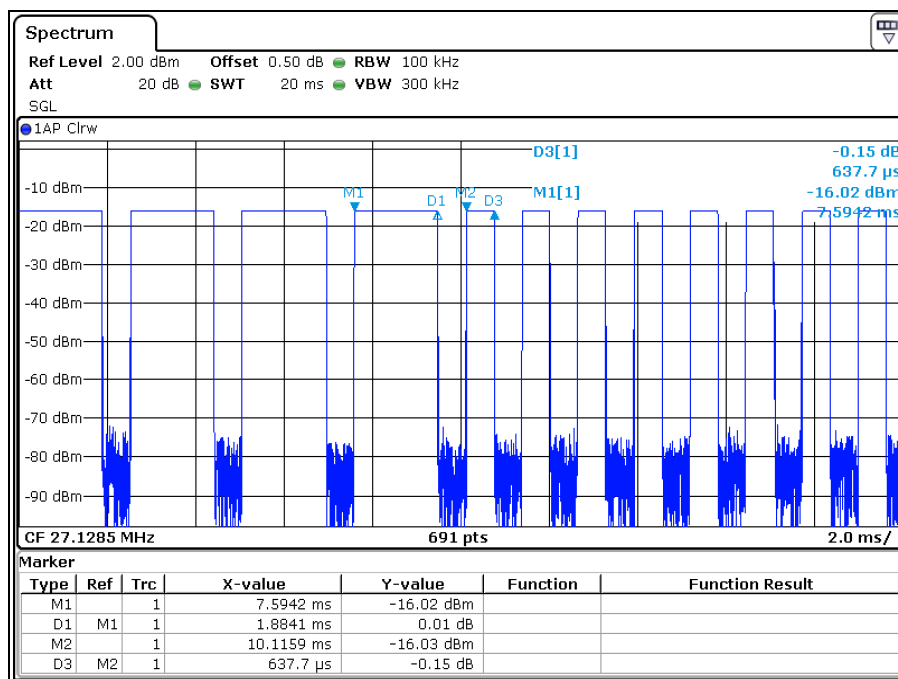




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Ton1=1.8841ms

Ton2= 0.6377ms

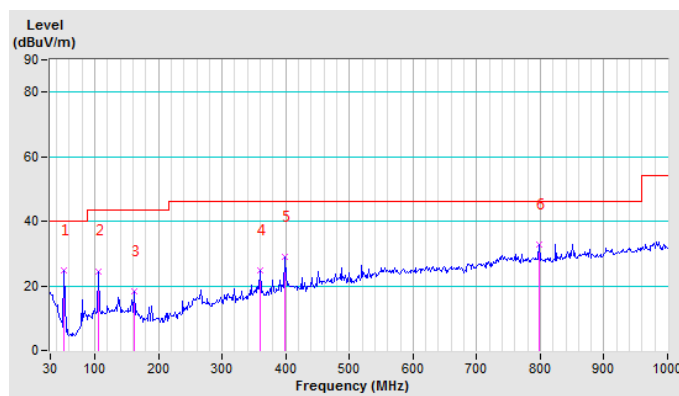


FREQUENCY RANGE	9KHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	51.76	24.74 QP	40.00	-15.26	1.00 H	90	47.54	-22.80
2	106.17	24.57 QP	43.50	-18.93	2.00 H	270	42.66	-18.09
3	162.13	18.24 QP	43.50	-25.26	1.00 H	60	35.68	-17.44
4	359.55	24.91 QP	46.00	-21.09	2.00 H	30	35.17	-10.26
5	398.41	29.00 QP	46.00	-17.00	2.00 H	20	37.69	-8.69
6	797.92	32.86 QP	46.00	-13.14	1.00 H	10	32.94	-0.08

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.

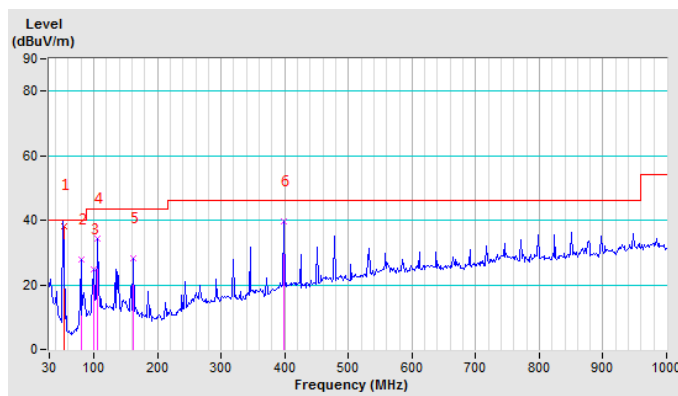


FREQUENCY RANGE	9KHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
-----------------	-------------	-------------------	-----------------

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	53.14	38.30 QP	40.00	-1.70	1.00 V	54	61.46	-23.16
2	79.74	27.72 QP	40.00	-12.28	2.00 V	30	49.83	-22.11
3	99.95	24.88 QP	43.50	-18.62	2.00 V	20	43.37	-18.49
4	106.17	34.42 QP	43.50	-9.08	1.39 V	100	52.51	-18.09
5	162.13	28.15 QP	43.50	-15.35	1.00 V	50	45.59	-17.44
6	398.41	39.77 QP	46.00	-6.23	2.00 V	90	48.46	-8.69

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.



4.2 BANDWIDTH MEASUREMENT

4.2.1 LIMITS OF BANDWIDTH MEASUREMENT

The field strength of any emissions appearing between the band edges and out of band shall be attenuated at least 20 dB below the level of the unmodulated carrier or to the general limits in Section 15.209.

FREQUENCY (MHz)	Limits
	[MHz]
27.145	within 26.96-27.28

4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 04,17	May 03,18
Power Sensor	Keysight	U2021XA	MY55060018	May 04,17	May 03,18
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 13, 16	Oct.12, 17
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.05,16	Sep. 04,17
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 04,16	Nov. 03,17
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 04,16	Nov. 03,17
Signal Generator	Agilent	N5183A	MY50140980	Nov. 04,16	Nov. 03,17
Agile Signal Generator	Agilent	8645A	Agilent	Aug.08, 16	Aug.07, 17
Spectrum Analyzer	Keysight	N9020A	MY55400499	Apr. 05,17	Apr. 04,18
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Dec.05, 16	Dec. 04, 17

NOTE:

1. The test was performed in RF Oven room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

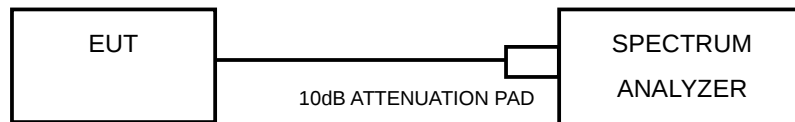
4.2.3 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



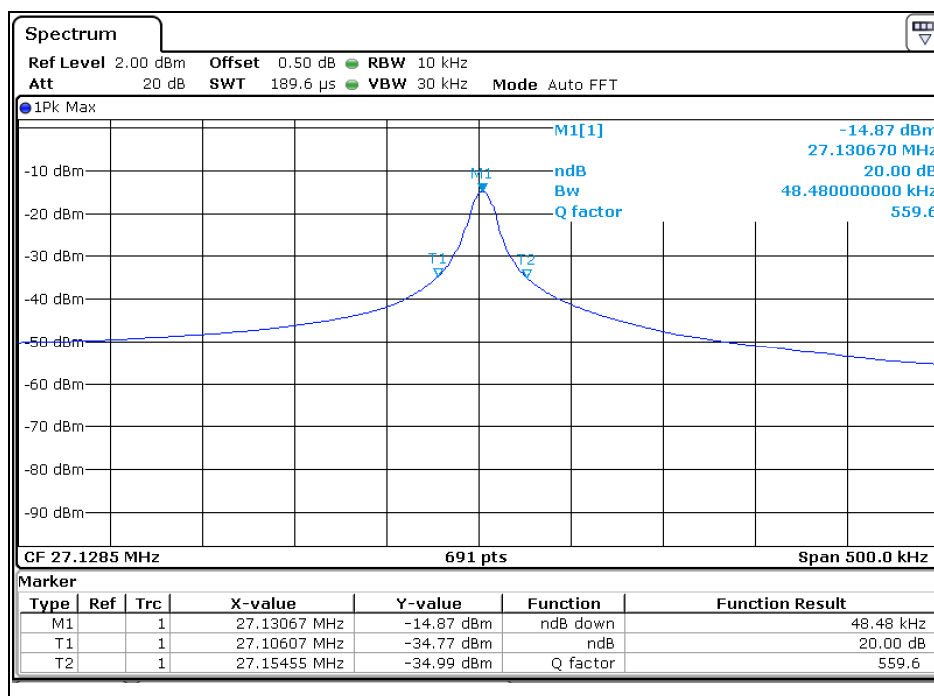
4.2.6 EUT OPERATING CONDITIONS

Same as item 4.1.6

4.2.7 TEST RESULTS

Lower & Upper Test Frequency Point (MHz)	Test Frequency (MHz)	P/F
Lower	27.11	PASS
Upper	27.16	PASS

Test Data:





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5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---