



# TEST REPORT

**Report Reference No.** ..... : **TRE1703021202** R/C.....: 46523

**FCC ID** ..... : **2ALJN-CL1306**

**Applicant's name** ..... : **Shenzhen Cardlan Technology Co., Ltd**

**Address** ..... : 3F, 1Bldg, Liantang industrial Park, Kangzheng Rd, Longgang Dist, Shenzhen, China

**Manufacturer** ..... : Shenzhen Cardlan Technology Co., Ltd

**Address** ..... : 3F, 1Bldg, Liantang industrial Park, Kangzheng Rd, Longgang Dist, Shenzhen, China

**Test item description** ..... : **Card Reader**

**Trade Mark** ..... : -

**Model/Type reference** ..... : CL1306

**Listed Model(s)** ..... : -

**Standard** ..... : **FCC CFR Title 47 Part 15 Subpart C Section 15.225**

**Date of receipt of test sample** ..... : Mar. 22, 2017

**Date of testing** ..... : Mar. 22, 2017 - Apr. 12, 2017

**Date of issue** ..... : Apr. 12, 2017

**Result** ..... : **PASS**

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**Testing Laboratory Name** ..... : **Shenzhen Huatongwei International Inspection Co., Ltd.**

**Address** ..... : 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

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## 1. Test standards and Report version

### 1.1. Applicable Standards

The tests were performed according to following standards:

[FCC Rules Part 15.225](#): Operation within the band 13.110-14.010 MHz.

[ANSI C63.10-2013](#): American National Standard for Testing Unlicensed Wireless Devices

### 1.2. Report version

Version No.	Date of issue	Description
00	Apr. 12, 2017	Original

## **2. Test Description**

ReportSection	Test Item	FCC Rule	Result
4.1	Antenna requirement	15.203	Pass
4.2	Line Conducted Emission (AC Main)	15.207	Pass
4.3	20dB Bandwidth	2.1049	Pass
4.4	Radiated Emissions& Field Strength of Fundamental Emissions	15.225(a)(b)(c)(d)/15.209	Pass
4.5	Frequency Stability	15.225e	Pass

Remark: The measurement uncertainty is not included in the test result.

### 3. SUMMARY

#### 3.1. Client Information

Applicant:	Shenzhen Cardlan Technology Co.,Ltd
Address:	3F, 1Bldg, Liantang industrial Park, Kangzheng Rd, Longgang Dist, Shenzhen, China
Manufacturer:	Shenzhen Cardlan Technology Co.,Ltd
Address:	3F, 1Bldg, Liantang industrial Park, Kangzheng Rd, Longgang Dist, Shenzhen, China

#### 3.2. Product Description

Name of EUT:	Card Reader
Trade Mark:	-
Model No.:	CL1306
Listed Model(s):	-
Power supply:	DC 12V
Adapter information:	-
<b>NFC</b>	
Modulation:	FSK
Operation frequency:	13.56MHz
Channel number:	1
Antenna type:	Integral Antenna

#### 3.3. Operation state

##### ◆ Test mode

For RF test items:

The engineering test program was provided and enabled to make EUT continuous transmit

For AC power line conducted emissions:

The EUT was set to connect with the NFC under large package sizes transmission.

#### 3.4. EUT configuration

**The following peripheral devices and interface cables were connected during the measurement:**

● - supplied by the manufacturer

○ - supplied by the lab

	Length (m) :	/
	Shield :	/
	Detachable :	/
	Manufacturer :	/
	Model No. :	/

#### 3.5. Modifications

No modifications were implemented to meet testing criteria.

## **4. TEST ENVIRONMENT**

### **4.1. Address of the test laboratory**

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

Phone: 86-755-26748019 Fax: 86-755-26748089

### **4.2. Test Facility**

The test facility is recognized, certified, or accredited by the following organizations:

#### **CNAS-Lab Code: L1225**

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### **A2LA-Lab Cert. No.: 3902.01**

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

#### **FCC-Registration No.: 317478**

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 317478.

#### **IC-Registration No.: 5377B**

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B.

#### **ACA**

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

### 4.3. Equipments Used during the Test

Conducted Emission (AC Main)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Artificial Mains	Rohde&Schwarz	ESH2-Z5	100028	2016/11/13
2	EMI Test Receiver	Rohde&Schwarz	ESCI3	100038	2016/11/13
3	Pulse Limiter	Rohde&Schwarz	ESHSZ2	100044	2016/11/13
4	EMI Test Software	Rohde&Schwarz	ES-K1 V1.71	N/A	N/A

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2016/11/13
2	EMI TEST RECEIVER	Rohde&Schwarz	ESI 26	100009	2016/11/13
3	EMI TEST Software	Audix	E3	N/A	N/A
4	TURNTABLE	ETS	2088	2149	N/A
5	ANTENNA MAST	ETS	2075	2346	N/A
6	EMI TEST Software	Rohde&Schwarz	ESK1	N/A	N/A
7	HORNANTENNA	ShwarzBeck	9120D	1011	2016/11/13
8	Amplifer	Sonoma	310N	E009-13	2016/11/13
9	JS amplifer	Rohde&Schwarz	JS4-00101800-28-5A	F201504	2016/11/13
10	High pass filter	Compliance Direction systems	BSU-6	34202	2016/11/13
11	HORNANTENNA	ShwarzBeck	9120D	1012	2016/11/13
12	Amplifer	Compliance Direction systems	PAP1-4060	120	2016/11/13
13	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2016/11/13
14	TURNTABLE	MATURO	TT2.0	/	N/A
15	ANTENNA MAST	MATURO	TAM-4.0-P	/	N/A

Conducted test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Spectrum Analyzer	Rohde&Schwarz	FSP	1164.4391.40	2016/11/13

The Cal.Interval was one year.

#### 4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

#### 4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	1.60 dB	(1)
Radiated spurious emission 9KHz-40 GHz	2.20 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Occupied Bandwidth	-----	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=1.96$ .



## 5. TEST CONDITIONS AND RESULTS

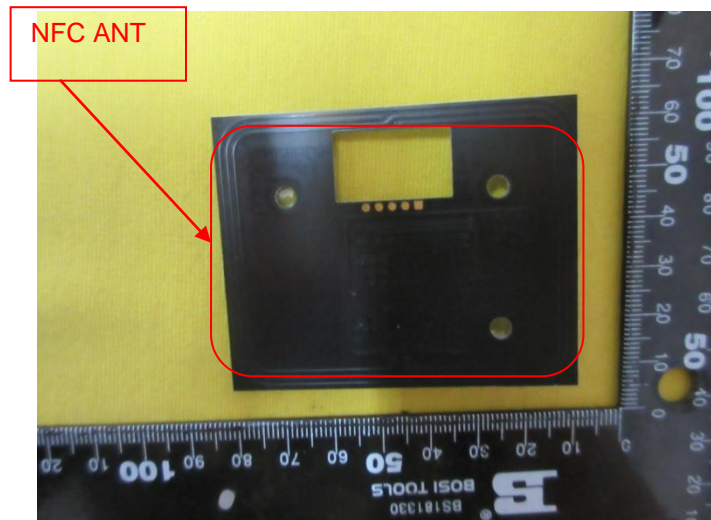
### 5.1. Antenna requirement

#### Requirement

##### **FCC CFR Title 47 Part 15 Subpart C Section 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, 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.

#### Test Result:



## 5.2. Conducted Emission (AC Main)

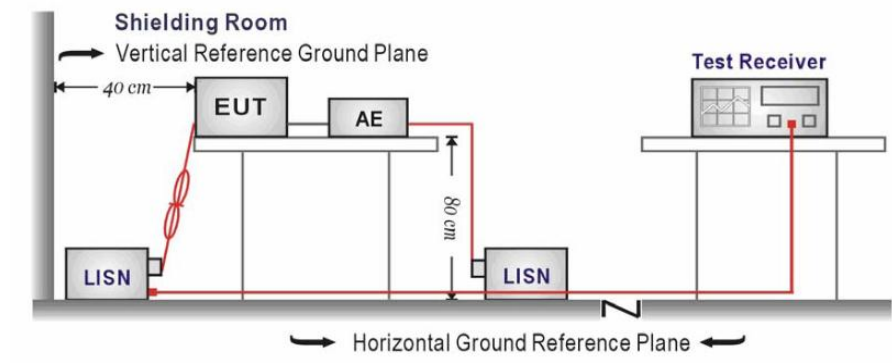
### LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\* Decreases with the logarithm of the frequency.

### TEST CONFIGURATION

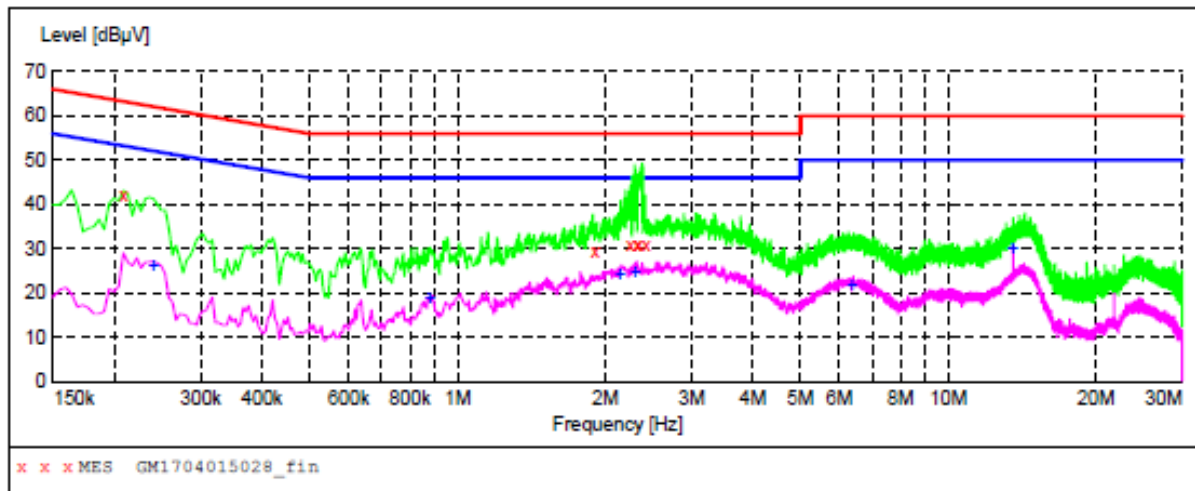


### TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

### TEST RESULTS

Test mode: AC 120V	NFC	Polarization	L
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#### MEASUREMENT RESULT: "GM1704015028\_fin"

4/1/2017 3:47PM

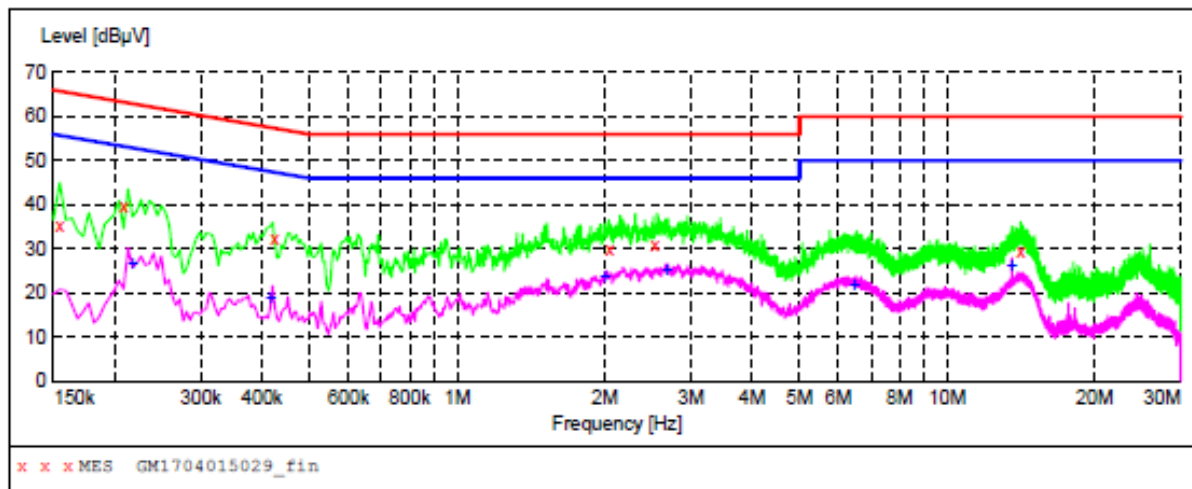
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.208500	42.00	10.3	63	21.3	QP	L1	GND
1.905000	29.70	10.2	56	26.3	QP	L1	GND
2.256000	30.80	10.2	56	25.2	QP	L1	GND
2.332500	31.10	10.2	56	24.9	QP	L1	GND
2.341500	30.90	10.2	56	25.1	QP	L1	GND
2.427000	31.10	10.2	56	24.9	QP	L1	GND

#### MEASUREMENT RESULT: "GM1704015028\_fin2"

4/1/2017 3:47PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.240000	26.50	10.3	52	25.6	AV	L1	GND
0.879000	19.10	10.1	46	26.9	AV	L1	GND
2.143500	24.80	10.2	46	21.2	AV	L1	GND
2.301000	25.30	10.2	46	20.7	AV	L1	GND
6.360000	22.10	10.3	50	27.9	AV	L1	GND
13.560000	30.60	10.5	50	19.4	AV	L1	GND

Test mode: AC 120V	NFC	Polarization	N
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#### MEASUREMENT RESULT: "GM1704015029\_fin"

4/1/2017 3:43PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	35.40	10.4	66	30.4	QP	N	GND
0.208500	39.70	10.3	63	23.6	QP	N	GND
0.424500	32.60	10.2	57	24.8	QP	N	GND
2.049000	30.20	10.2	56	25.8	QP	N	GND
2.539500	31.00	10.2	56	25.0	QP	N	GND
14.149500	29.20	10.5	60	30.8	QP	N	GND

#### MEASUREMENT RESULT: "GM1704015029\_fin2"

4/1/2017 3:43PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.217500	26.80	10.3	53	26.1	AV	N	GND
0.415500	19.10	10.2	48	28.4	AV	N	GND
2.004000	24.10	10.2	46	21.9	AV	N	GND
2.674500	25.40	10.2	46	20.6	AV	N	GND
6.472500	22.10	10.3	50	27.9	AV	N	GND
13.564500	26.70	10.5	50	23.3	AV	N	GND

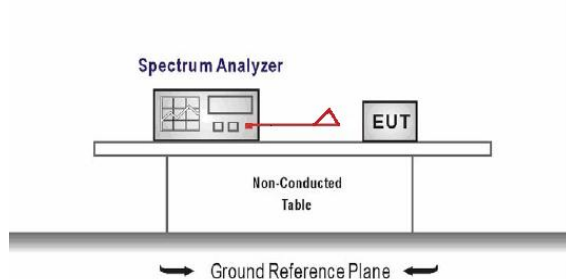
Remark: Transd=Cable lose+ PULSE LIMITER factor+ ARTIFICIAL MAINS factor; Margin= Limit -Level

### 5.3. 20dB bandwidth

#### LIMIT

Intentional radiators must be designed to ensure that the 20dB emission bandwidth in the specific band 13.553~13.567MHz.

#### TEST CONFIGURATION



#### TEST PROCEDURE

Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Set the spectrum analyzer center frequency to the EUT nominal center frequency

RBW = 1 kHz, VBW  $\geq 3 \times$  RBW

Sweep time = auto couple

Detector = Peak

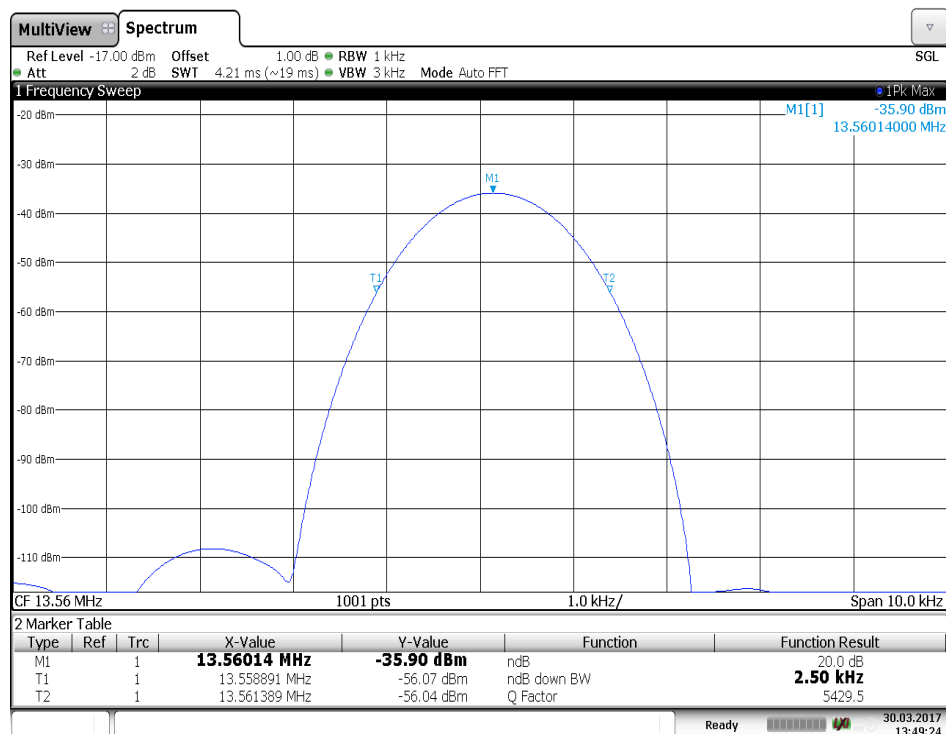
Trace mode = max hold

Measured the spectrum width with power higher than 20dB below carrier.

#### TEST RESULTS

Frequency	20dB Bandwidth(KHz)
13.56MHz	2.50

Test plot as follows:



## 5.4. Radiated Emission

### LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Limit (uV/m)	Measurement Distance(meters)
0.009MHz-0.490MHz	2400/F(kHz)	300
0.490MHz-1.705MHz	24000/F(kHz)	30
1.705MHz-30MHz	30	30
30MHz-88MHz	100	3
88MHz-216MHz	150	3
216MHz- 960MHz	200	3
Above 960MHz	500	3

FCC CFR Title 47 Part 15 Subpart C Section 15.225

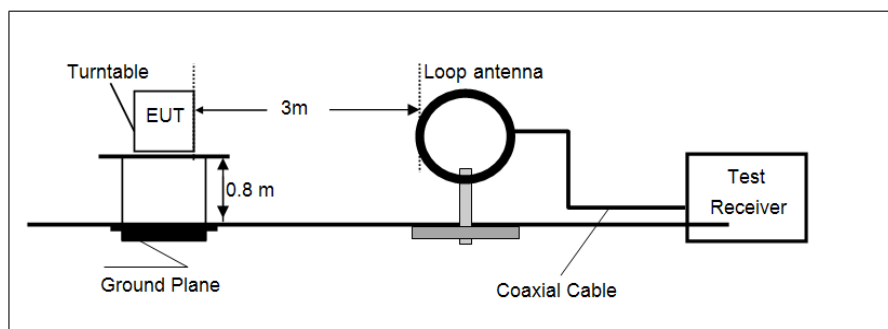
Field Strength of Fundamental Emissions Limit			
Frequency	Field Strength (μV/m)@30m	Field Strength (dBμV/m)@30m	Field Strength (dBμV/m)@3m
1.705MHz-13.110MHz	30	29.5	69.5
13.110MHz-13.410MHz	106	40.5	80.5
13.410MHz-13.553MHz	334	50.5	90.5
13.553MHz-13.567MHz	15848	84	124.0
13.567MHz-13.710MHz	334	50.5	90.5
13.710MHz-14.010MHz	106	40.5	80.5
14.010MHz-30MHz	30	29.5	69.5

$$\text{dB}\mu\text{V/m}=20\log(\mu\text{V/m})$$

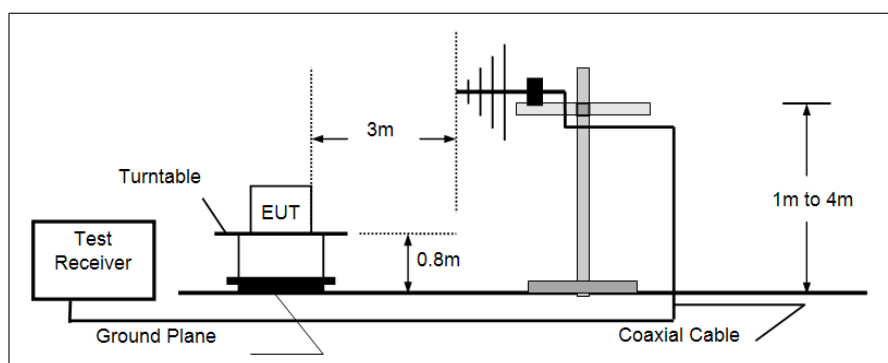
$$3\text{m Limit}(\text{dB}\mu\text{V/m})=10\text{m Limit}(\text{dB}\mu\text{V/m})+40\log(10/3)$$

### TEST CONFIGURATION

- 9KHz ~30MHz



- 30MHz ~ 1GHz



**TEST PROCEDURE**

1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
4. For Fundamental emissions, use the receiver to measure QP reading.
5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
6. Compliance with the spectrum mask is tested with RBW set to 9kHz for below 30MHz, and 100kHz for 30MHz-1000MHz..

Note: Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m).

**TEST RESULTS**

All Measurements were performed using a loop antenna. The antenna was positioned in three orthogonal positions (X front, Y side, Z top) and the position with the highest emission level was recorded (X).

**Radiated Emission Measurement data:**

Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit (dB $\mu$ V/m @3m)	Margin dB	Det.	Result
0.03	44.58	22.15	118.06	-73.48	Quasi	Pass
0.05	36.52	22.15	113.63	-77.11	Quasi	Pass
0.28	30.78	22.22	98.66	-67.88	Quasi	Pass
1.02	31.42	22.22	67.43	-36.01	Quasi	Pass
5.68	30.34	22.32	69.5	-39.16	Quasi	Pass
21.36	30.86	22.47	69.5	-38.64	Quasi	Pass

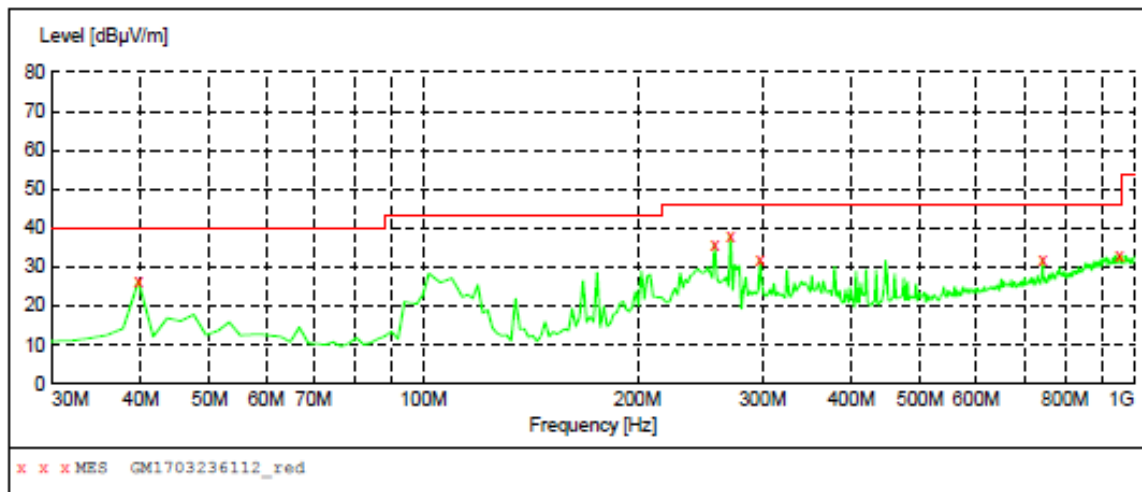
1. Level = Receiver Read level + Transd
2. Transd = Antenna Factor + Cable Loss

**Field Strength of Fundamental Emissions Measurement data:**

Frequency MHz	Mea. Frequency MHz	Test result (dB $\mu$ V/m @3m)	Limit (dB $\mu$ V/m @3m)	Margin dB	Det.	Result
13.110~13.410	13.349	39.67	80.50	-40.83	Quasi	Pass
13.410~13.553	13.481	43.08	90.50	-47.42	Quasi	Pass
13.553~13.567	13.56	79.38	124.00	-44.62	Quasi	Pass
13.567~13.710	13.639	46.94	90.50	-43.56	Quasi	Pass
13.710~14.010	13.771	44.47	85.50	-41.03	Quasi	Pass

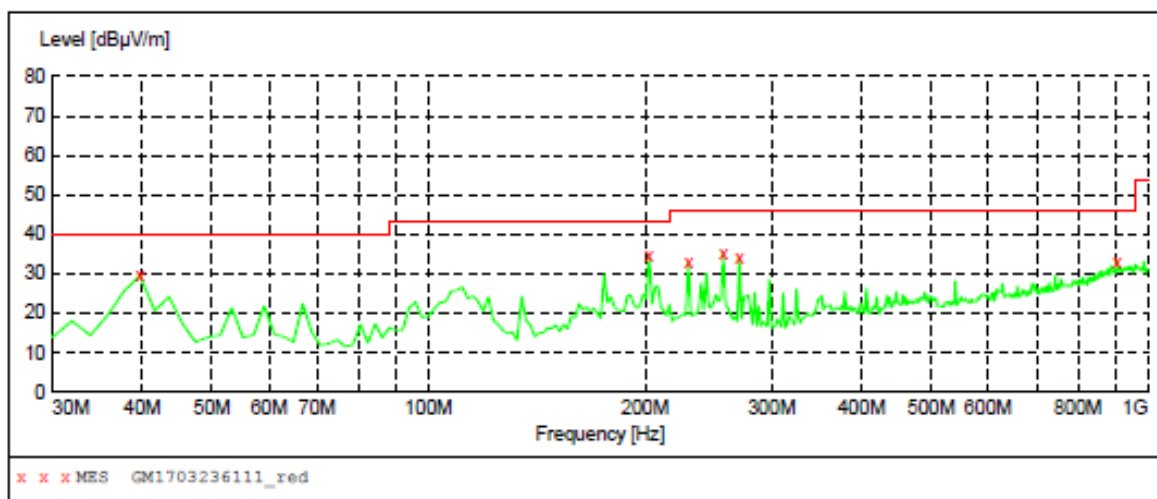
**Radiated Emission Measurement data:**

30MHz ~ 1GHz

**MEASUREMENT RESULT: "GM1703236112\_red"**

3/23/2017 7:23PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
39.700000	26.40	-17.0	40.0	13.6	QP	300.0	167.00	HORIZONTAL
256.980000	35.70	-14.1	46.0	10.3	QP	100.0	199.00	HORIZONTAL
270.560000	38.20	-13.7	46.0	7.8	QP	100.0	189.00	HORIZONTAL
297.720000	31.80	-13.0	46.0	14.2	QP	100.0	211.00	HORIZONTAL
743.920000	32.00	-2.3	46.0	14.0	QP	100.0	127.00	HORIZONTAL
953.440000	33.00	1.6	46.0	13.0	QP	100.0	0.00	HORIZONTAL

**MEASUREMENT RESULT: "GM1703236111\_red"**

3/23/2017 7:19PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
39.700000	29.50	-17.0	40.0	10.5	QP	100.0	49.00	VERTICAL
202.660000	34.70	-15.9	43.5	8.8	QP	100.0	288.00	VERTICAL
229.820000	32.80	-15.0	46.0	13.2	QP	100.0	181.00	VERTICAL
256.980000	35.30	-14.1	46.0	10.7	QP	100.0	122.00	VERTICAL
270.560000	34.10	-13.7	46.0	11.9	QP	100.0	110.00	VERTICAL
906.880000	33.10	1.2	46.0	12.9	QP	100.0	133.00	VERTICAL

Remark: Transd=Cable lose+ Antenna factor- Pre-amplifier;Margin=Limit -Level

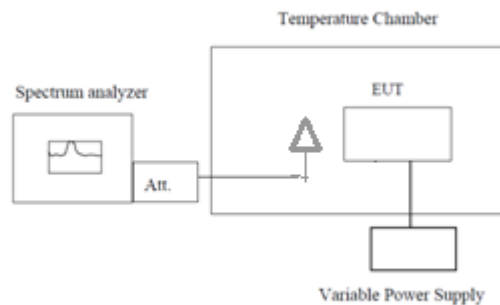


## 5.5. Frequency stability

### LIMIT

2.5ppm

### TEST CONFIGURATION



**Note :** Measurement setup for testing on Antenna connector

### TEST PROCEDURE

1. The equipment under test was connected to an external DC power supply and input rated voltage.
2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.
3. The EUT was placed inside the temperature chamber.
4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.
5. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

### TEST RESULTS

NFC 13.56MHz						
Voltage(%)	Power(VDC)	TEMP(°C)	Meas.Freq.(MHz)	Freq.Dev(Hz)	Deviation(ppm)	Limit(ppm)
100%	12.00	-30	13.56014	140	10.3245	-100< Deviation >100
100%		-20	13.56018	180	13.2743	
100%		-10	13.56002	20	1.4749	
100%		0	13.56019	190	14.0118	
100%		10	13.56023	230	16.9617	
100%		20	13.56008	80	5.8997	
100%		30	13.56015	150	11.0619	
100%		40	13.56006	60	4.4248	
100%		50	13.56017	170	12.5369	
Low Battery power	10.20	20	13.56015	150	11.0619	
High Battery power	13.80	20	13.56003	30	2.2124	

## 6. Test Setup Photos of the EUT

Radiated Emission



Conducted Emission (PC Charge)



## 7. External and Internal Photos of the EUT

Reference to the test report No.: TRE1703021201.

.....End of Report.....