

FCC RF TEST REPORT

APPLICANT

IT-GROUP MFG (SHENZHEN) LTD

PRODUCT NAME

Medea LED Tag

MODEL NAME

MEDEA-B02

TRADE NAME

Medea

BRAND NAME

Medea

FCC ID

2AEA9T1489

STANDARD(S)

47 CFR Part 15 Subpart C

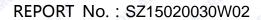
ISSUE DATE

2015-04-03

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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DIRECTORY

TEST	REPORT DECLARATION		4
<u>1. T</u>	TECHNICAL INFORMATION ······		5
1110			
1.1	APPLICANT INFORMATION		5
1.2	EQUIPMENT UNDER TEST (EUT) DESCRIPTION		5
1.2.1			
1.3	TEST STANDARDS AND RESULTS		
1.3.1			
2. 4	47 CFR PART 15C REQUIREMENTS·····		7
RLAD	MORE MO AR MORE MORE	OB .	ZLAB NOR
2.1	Antenna requirement ······		7
2.1.1			
2.1.2			
2.2	PEAK OUTPUT POWER·····		
2.2.1			
2.2.2			
2.2.3			
2.3	6dB Bandwidth·····		
2.3.1			
2.3.2			
2.3.3	3 TEST RESULT·····		10
2.4	CONDUCTED SPURIOUS EMISSIONS AND BAND EDGE		13
2.4.1			13
2.4.2			
2.4.3	3 TEST RESULT······		13
2.5	POWER SPECTRAL DENSITY (PSD) ······		17
2.5.1			
2.5.2			
2.5.3			
2.6	RESTRICTED FREQUENCY BANDS		
2.6.1			
2.6.2			
2.6.3	3 TEST RESULT·····		21



2.7	CONDUCTED EMISSION	24
	REQUIREMENT	
2.7.2	TEST DESCRIPTION	24
	TEST RESULT·····	
	RADIATED EMISSION	
	Requirement	
2.8.2	TEST DESCRIPTION ·····	26
	Test Result	
2.9	RF EXPOSURE EVALUATION ·····	32
ANNE	EX A GENERAL INFORMATION······	33

	Change History						
Issue	Issue Date Reason for change						
1.0	1.0 2015-04-03 First edition						
MORL	MO.	B RIAB MORL MO. LE W SLAB MORLE					



TEST REPORT DECLARATION

Applicant	IT-GROUP MFG (SHENZHEN) LTD
Applicant Address	No. 528 Jinbi Road, Biling Village, Pingshan District, Shenzhen, Guangdong, China
Manufacturer	IT-GROUP MFG (SHENZHEN) LTD
Manufacturer Address	No. 528 Jinbi Road, Biling Village, Pingshan District, Shenzhen, Guangdong, China
Product Name	Medea LED Tag
Model Name	MEDEA-B02
Brand Name	Medea
HW Version	1.0
SW Version	1.0
Test Standards	47 CFR Part 15 Subpart C
Test Date	2015-03-02 to 2015-03-11
Test Result	PASS

Tested by		Wu Janwill	
		Wu Jianwu	
Reviewed by	A	aiu xiaojum	
Approved by		Qiu Xiaojun Zena Dexin	
		Zeng Dexin	





1. TECHNICAL INFORMATION

Note: Provide by applicant.

1.1 Applicant Information

Company:	IT-GROUP MFG (SHENZHEN) LTD				
Address:	No. 528 Jinbi Road, Biling Village, Pingshan District, Shenzhen,				
MO, OB E	Guangdong, China				

1.2 Equipment under Test (EUT) Description

Brand Name:	Medea
Trade Name:	Medea
Model Name:	MEDEA-B02
Frequency Range:	The frequency range used is 2402MHz - 2480MHz (40 channels, at intervals of 2MHz);
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi

NOTE:

The EUT is Medea LED Tag, it contain Bluetooth 4.0 LE Module operating at 2.4GHz ISM band; the frequencies allocated for the Bluetooth 4.0 LE is F(MHz)=2402+2*n (0<=n<=39). The lowest, middle, highest channel numbers of the Bluetooth Module used and tested in this report are separately 0 (2402MHz), 19 (2440MHz) and 39 (2480MHz).

For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.2.1 Identification of all used EUTs

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity Hardware Version		Software Version			
A01	1.0	1.0			



1.3 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (Bluetooth, 2.4GHz ISM band radiators) for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15	Padia Francia pur Paviaca
MOR	(10-1-13 Edition)	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Result	
1	15.203	Antenna Requirement	PASS	
2	15.247(b)	Peak Output Power	PASS	
3	15.247(a)	Bandwidth	PASS	
4	15.247(d)	Conducted Spurious Emission and Band Edge	PASS	
5	15.247(d)	Restricted Frequency Bands	PASS	
6	15.207	Conducted Emission	N.A	
7	15.209 ,15.247(d)	Radiated Emission	PASS	
8	15.247(e)	Power spectral density (PSD)	PASS	
9	15.247(i),1.1307& 2.1093	RF exposure evaluation		

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.4 2009.

These RF tests were performed according to the method of measurements prescribed in KDB558074 D01 v03r02 (05/06/2014).

1.3.1 Test Environment Conditions

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

Temperature (°C):	15 - 35	HO. OB	QLAF	ORL
Relative Humidity (%):	30 -60	QLAD MORL	W.	20
Atmospheric Pressure (kPa):	86-106	Mo. B.	A. C.	RI. W



2. 47 CFR PART 15C REQUIREMENTS

2.1 Antenna requirement

2.1.1 Applicable Standard

According 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.

2.1.2 Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2 Peak Output Power

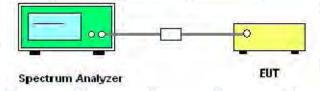
2.2.1 Requirement

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum peak conducted output power of the intentional radiator shall not exceed 1 Watt.

2.2.2 Test Description

The measured output power was calculated by the reading of the spectrum analyzer and calibration.

A. Test Setup:



The EUT (Equipment under the test) which is powered by the Battery is coupled to the Spectrum analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading, all test result in Spectrum analyzer.

B. Equipments List:

Please reference ANNEX A (1.4).



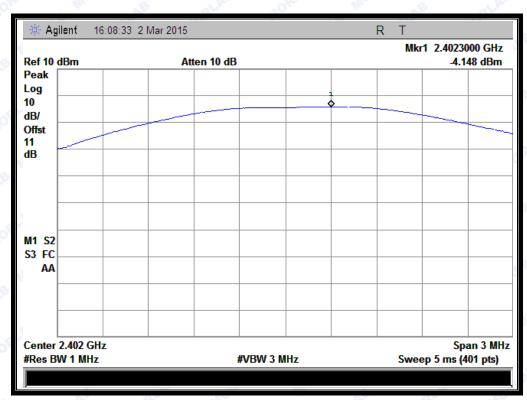
2.2.3 Test Result

The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

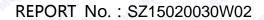
A. Test Verdict:

Channel	Frequency	Measured Outp	Measured Output Peak Power		Limit		\/ordiot	
Channel	(MHz)	dBm	W	Plot	dBm	W	Verdict	
0	2402	-4.148	0.000385	Plot A	AB .	RLA	PASS	
19	2440	-5.975	0.000253	Plot B	30	1	PASS	
39	2480	-7.785	0.000170	Plot C	QLAB	- 10	PASS	

B. Test Plots:



(Plot A: Channel 0: 2402MHz)







(Plot B: Channel 19: 2440MHz)



(Plot C: Channel 39: 2480MHz)





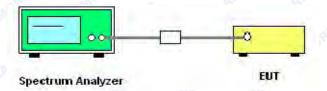
2.3 6dB Bandwidth

2.3.1 Requirement

According to FCC section 15.247(a) (2), Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

2.3.2 Test Description

A. Test Set:



The EUT which is powered by the battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

B. Equipments List:

Please reference ANNEX A(1.4).

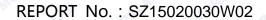
2.3.3 Test Result

The lowest, middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the module.

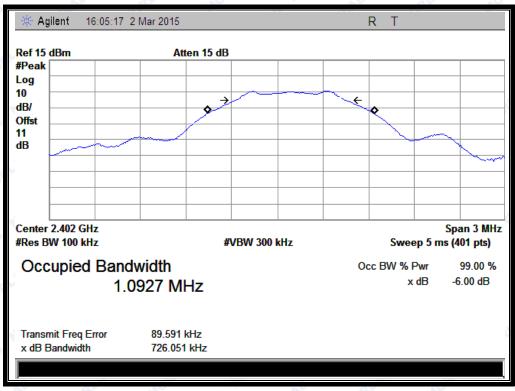
A. Test Verdict:

Channel	Frequenc y (MHz)	6 dB Bandwidth (MHz)	Refer to Plot	Limits(kHz)	Result
A 0	2402	0.7261	Plot A	≥500	PASS
19	2440	0.7038	Plot B	≥500	PASS
39	2480	0.6936	Plot C	≥500	PASS

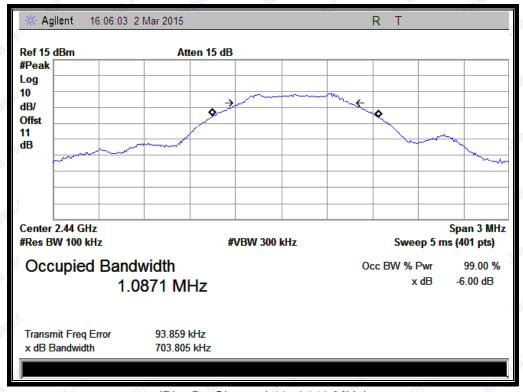
C. Test Plots:







(Plot A: Channel 0: 2402MHz)

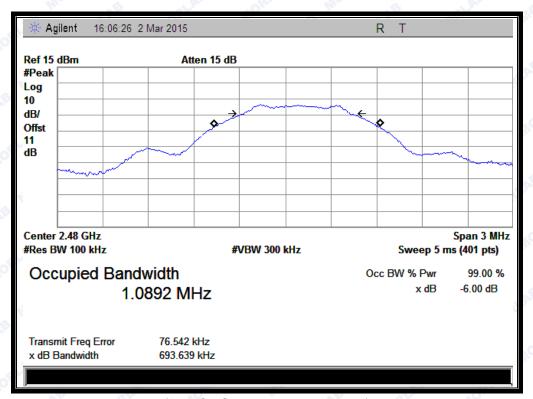


(Plot B: Channel 19: 2440 MHz)









(Plot C: Channel 39: 2480MHz)



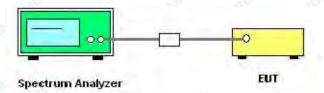
2.4 Conducted Spurious Emissions and Band Edge

2.4.1 Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

2.4.2 Test Description

A. Test Set:



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

B. Equipments List:

Please reference ANNEX A (1.4).

2.4.3 Test Result

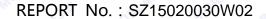
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.

A. Test Verdict:

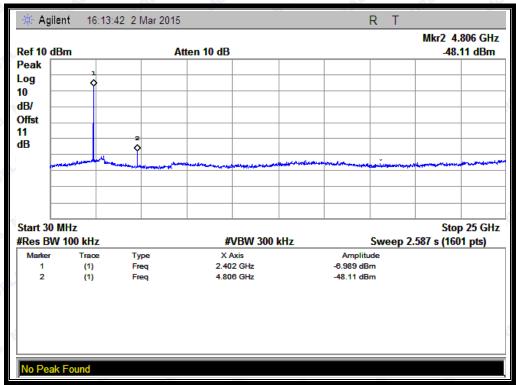
	Channe Frequenc y (MHz)	Гиодилово	Measured Max.		Limi		
<		Out of Band	and Refer to Plot		Calculated	Verdict	
		y (IVITZ)	Emission (dBm)		Level	-20dBc Limit	
	0	2402	-48.11	Plot A.1	-6.989	-27.0	PASS
	19	2440	-51.56	Plot B.1	-8.200	-28.2	PASS
	39	2480	-49.78	Plot C.1	-9.095	-29.1	PASS

B. Test Plots:

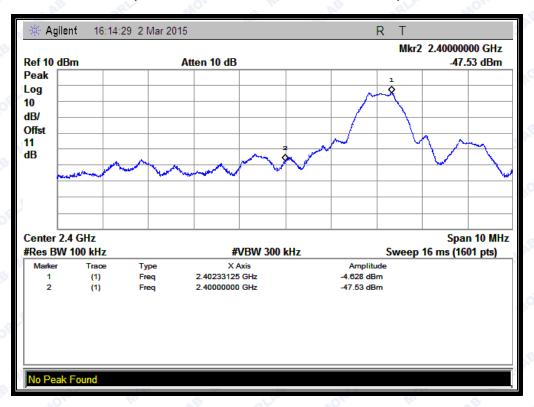
Note: the power of the Module transmitting frequency should be ignored.





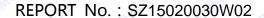


(Plot A.1: Channel = 0, 30MHz to 25GHz)

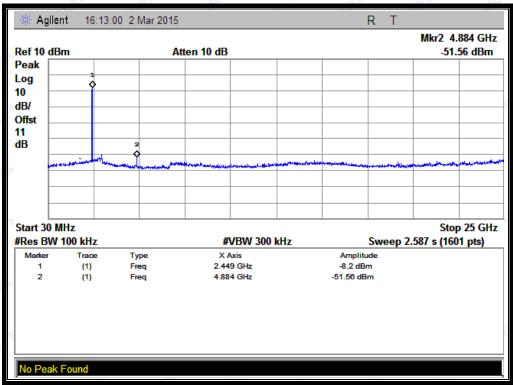


(Band Edge@ Channel = 0)

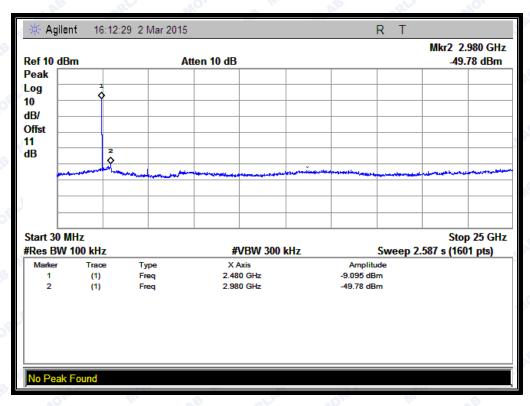








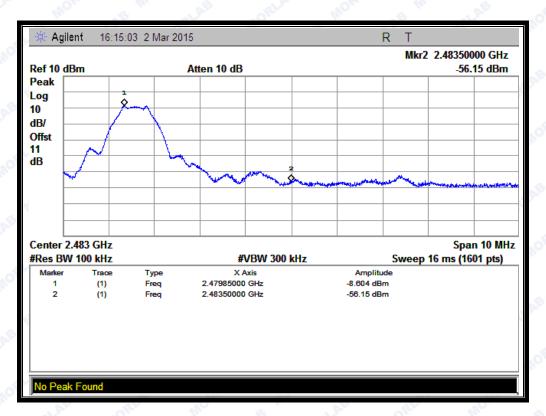
(Plot B.1: Channel = 19, 30MHz to 25GHz)



(Plot C.1: Channel = 39, 30MHz to 25GHz)







(Band Edge@ Channel = 39)



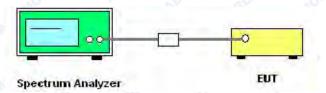
2.5 Power spectral density (PSD)

2.5.1 Requirement

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

2.5.2 Test Description

A. Test Set:



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

B. Equipments List:

Please reference ANNEX A (1.4).

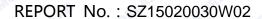
2.5.3 Test Result

The lowest, middle and highest channels are tested.

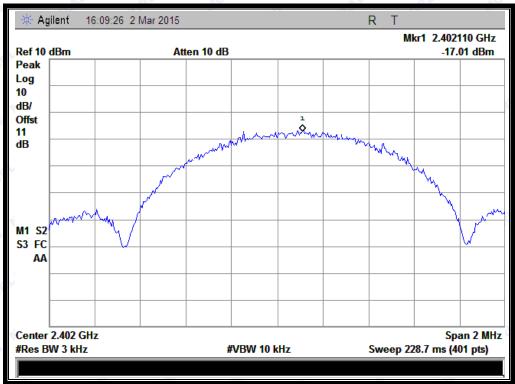
A. Test Verdict:

Spectral power density (dBm/3kHz)										
Chann	Frequency	Measured PSD	Defeate Diet	Limit	\					
el	(MHz)	(dBm/3kHz) Refer to Plot		(dBm/3kHz)	Verdict					
0	2402	-17.01	Plot A	8	PASS					
19	2440	-17.69	Plot B	8	PASS					
39	2480	-19.60	Plot C	8	PASS					
Measure	Measurement uncertainty: ±1.3dB									

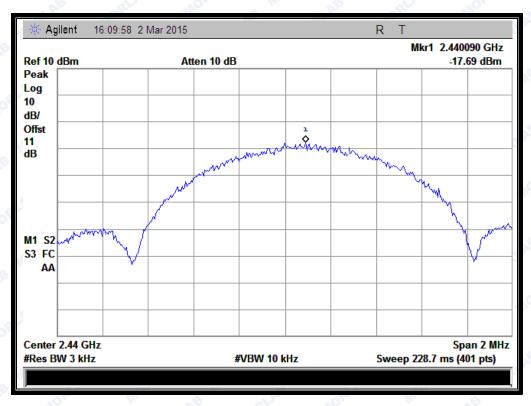
B. Test Plots:







(Plot A: Channel = 0)

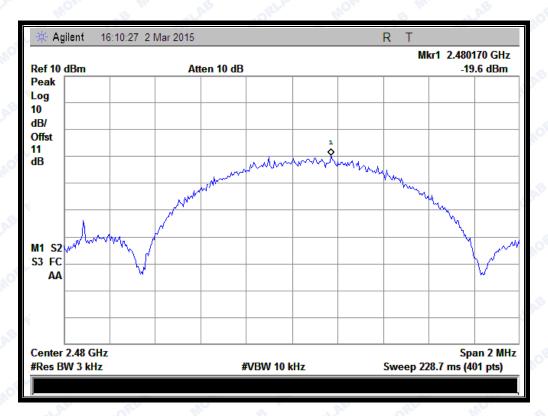


(Plot B: Channel = 19)









(Plot C: Channel = 39)



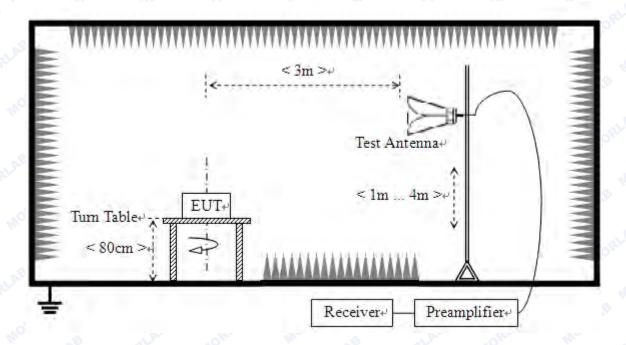
2.6 Restricted Frequency Bands

2.6.1 Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

2.6.2 Test Description

A. Test Setup



The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

B. Equipments List:

Please reference ANNEX A(1.4)



2.6.3 Test Result

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

The measurement results are obtained as below:

 $E [dB\mu V/m] = U_R + A_T + A_{Factor} [dB]; A_T = L_{Cable loss} [dB] - G_{preamp} [dB]$

A_T: Total correction Factor except Antenna

 U_R : Receiver Reading G_{preamp} : Preamplifier Gain A_{Factor} : Antenna Factor at 3m

Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

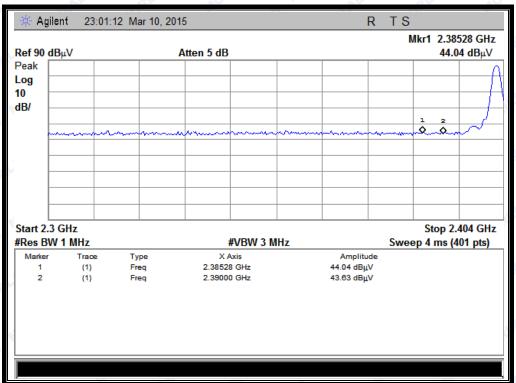
A. Test Verdict:

Channel	Frequency (MHz)	Detector PK/ AV	Receiver Reading UR (dBuV)	AT (dB)	AFactor (dB@3m)	Max. Emission E (dBµV/m)	Limit (dBµV/m)	Verdict
0 450	2385.28	PK	44.04	-33.63	32.56	42.97	74	Pass
0	2370.88	AV	32.13	-33.63	32.56	31.06	54	Pass
39	2485.87	PK	45.31	-33.18	32.5	44.63	74	Pass
39	2483.50	AV	33.08	-33.18	32.5	32.40	54	Pass

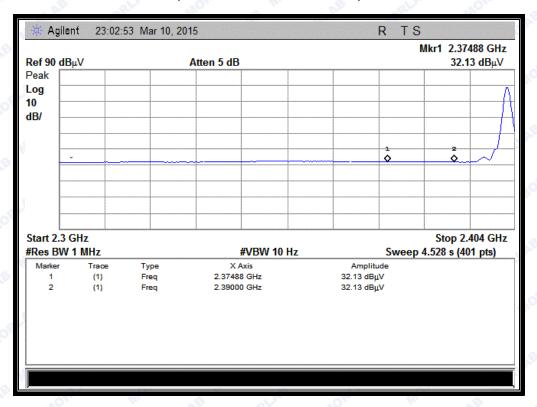
B. Test Plots:



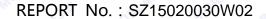




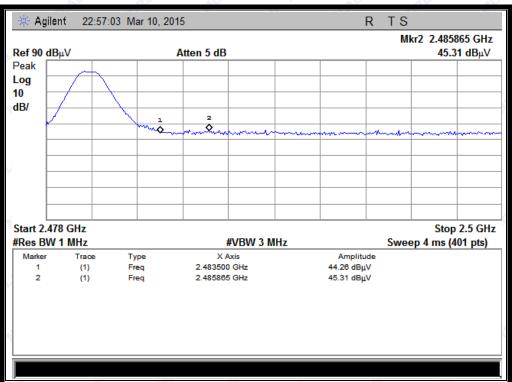
(Plot A1: Channel = 0 PEAK)



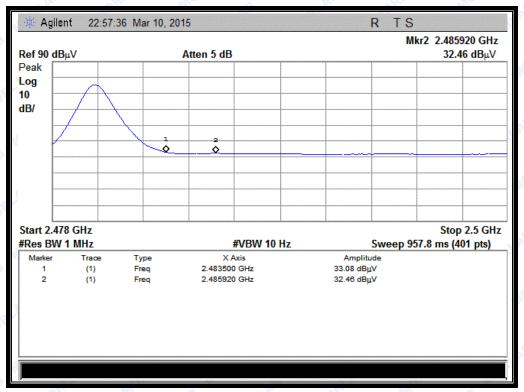
(Plot A2: Channel = 0 AVG)







(Plot B1: Channel = 39 PEAK)



(Plot B2: Channel = 39 AVG)





2.7 Conducted Emission

2.7.1 Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a $50\mu\text{H}/50\Omega$ line impedance stabilization network (LISN).

2.7.2 Test Description

The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.4:2009

A. Equipments List:

Please reference ANNEX A(1.4).

2.7.3 Test Result

This EUT designed can not to be connected to the public utility(AC) power line, so conducted emission is unnecessary.



2.8 Radiated Emission

2.8.1 Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
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 R. HO.
88 - 216	150	3 LAD ORL
216 - 960	200	3 110
Above 960	500	3

Note:

- For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
- For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

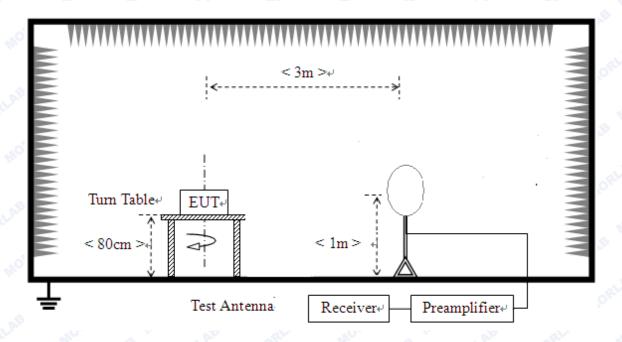
In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)



2.8.2 Test Description

A. Test Setup:

1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz





3) For radiated emissions above 1GHz



The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.4 (2009). The EUT was set-up on insulator 80cm above the Ground Plane. The set-up and test methods were according to ANSI C63.4.

The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

- (a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- (b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

B. Equipments List:

Please reference ANNEX A(1.4).



2.8.3 Test Result

According to ANSI C63.4 selection 4.2.2, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

 $\label{eq:energy} E \left[dB\mu V/m \right] = U_R + A_T + A_{Factor} \left[dB \right]; \ A_T = L_{Cable \ loss} \left[dB \right] - G_{preamp} \left[dB \right]$

A_T: Total correction Factor except Antenna

U_R: Receiver Reading

G_{preamp}: Preamplifier Gain

A_{Factor}: Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

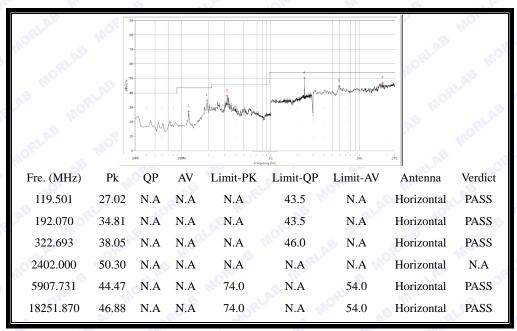
Note: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

The low frequency, which started from 9KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

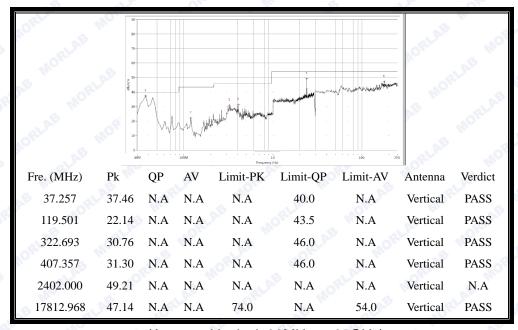


C. Test Plots for the Whole Measurement Frequency Range:

Plots for Channel = 0



(Antenna Horizontal, 30MHz to 25GHz)



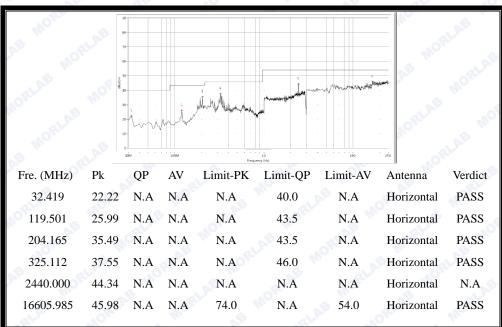
(Antenna Vertical, 30MHz to 25GHz)

Plot for Channel = 19

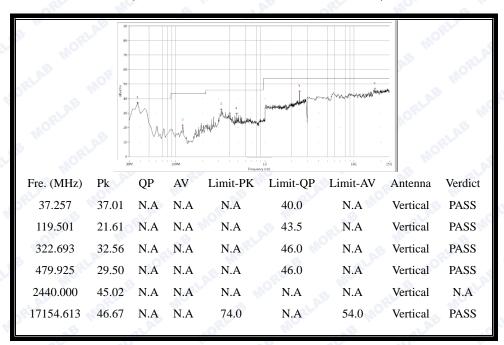








(Antenna Horizontal, 30MHz to 25GHz)



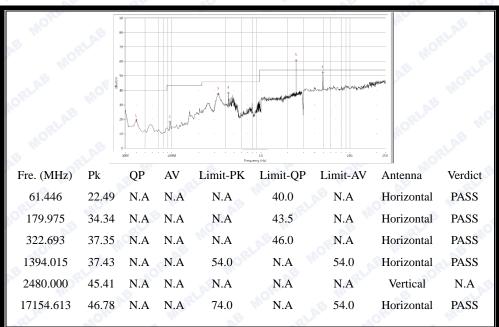
(Antenna Vertical, 30MHz to 25GHz)

Plot for Channel = 39

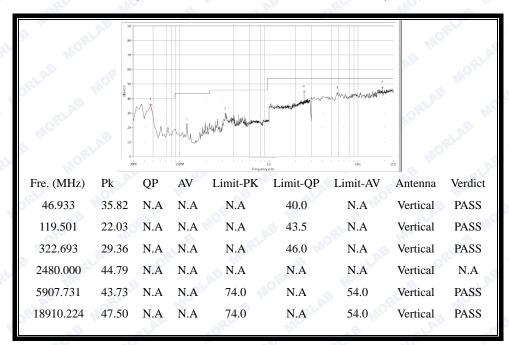








(Antenna Horizontal, 30MHz to 25GHz)



(Antenna Vertical, 30MHz to 25GHz)



2.9 RF exposure evaluation

According to § 1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy lever in excess of Commission's guideline.

According to 447498 D01 General RF Exposure Guidance v05, exclusion threshold values at selected frequencies and distances table as following.

mm	25	20	15	10	5	MHz
	194	155	116	77	39	150
	137	110	82	55	27	300
	112	89	67	45	22	450
	82	66	49	33	16	835
492.00	79	63	47	32	16	900
SAR Test Exclusion	61	49	37	24	12	1500
Threshold (mW)	54	44	33	22	11.	1900
Till Control (III 11)	48	38	29	19	10	2450
	40	32	24	16	8	3600
	33	26	20	13	7	5200
	32	26	19	13	6	5400
	31	25	19	12	6	5800
mm	50	45	40	35	30	MHz
	387	349	310	271	232	150
	274	246	219	192	164	300
	224	201	179	157	134	450
	164	148	131	115	98	835
	158	142	126	111	95	900
SAR Test	122	110	98	86	73	1500
Exclusion Threshold (mW)	109	98	87	76	65	1900
Timesitora (in vi)	96	86	77	67	57	2450
	79	71	63	55	47	3600
	66	59	53	46	39	5200
	65	58	52	45	39	5400
		56	50		37	

Routine SAR evaluation refers to the specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evolution is not required, the portable transmitters with output power greater than the applicable low threshold SAR evolution to qualify for TCB approval.

Result: This is portable device and the Max conducted peak output power is -4.148dBm, the maximum gain of antenna is0.0dBi, the maximum output power is -4.148dBm (0.385mW). which is lower than the exclusion threshold 10mW, at frequency 2450MHz, and distance is 5mm.

The SAR measurement is not required.





ANNEX A GENERAL INFORMATION

1.1 Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.				
Department:	Morlab Laboratory				
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China				
Responsible Test Lab Manager:	Mr. Su Feng				
Telephone:	+86 755 36698555				
Facsimile:	+86 755 36698525				

1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang
	Road, Block 67, BaoAn District, ShenZhen, GuangDong
	Province, P. R. China

1.3 Facilities and Accreditations

Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L3572.

All measurement facilities used to collect the measurement data are located at FL.1, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10 2009, ANSI C63.4 2009 and CISPR Publication 22; the FCC registration number is 695796.

The IC registration number is 7183A-2.



1.4 Test Equipments Utilized

1.4.1 Conducted Test Equipments

Conducted Test Equipment									
No.	Equipment Name	Serial No.	Туре	Manufacturer	Cal. Date	Cal. Due			
1	Spectrum Analyzer	MY45101810	E4407B	Agilent	2015.02.26	2016.02.25			
2	Power Splitter	NW521	1506A	Weinschel	2015.02.26	2016.02.25			
3	Attenuator 1	(n.a.)	10dB	Resnet	2015.02.26	2016.02.25			
4	Attenuator 2	(n.a.)	3dB	Resnet	2015.02.26	2016.02.25			
5	USB Wideband Power Sensor	MY52280010	U2021XA	Agilent	2015.02.26	2016.02.25			
6	EXA Signal Analzyer	MY51440152	N9010A	Agilent	2015.02.26	2016.02.25			
7	RF cable	CB01	RF01	Morlab	N/A	N/A			
8	Coaxial cable	CB02	RF02	Morlab	N/A	N/A			
9	SMA connector	CN01	RF03	HUBER-SUHNER	N/A	N/A			

1.4.2 Conducted Emission Test Equipments

Conducted Emission Test Equipments										
No.	Equipment Name	Serial No.	Туре	Manufacturer	Cal. Date	Cal. Due				
1	Receiver	US44210471	E7405A	Agilent	2015.02.26	2016.02.25				
2	LISN	812744	NSLK 8127	Schwarzbeck	2015.02.26	2016.02.25				
3	Service Supplier	100448	CMU200	R&S	2015.02.26	2016.02.25				
4	Pulse Limiter (20dB)	9391	VTSD 9561-D	Schwarzbeck	2015.02.26	2016.02.25				
5	Coaxial cable(BNC)	CB01	EMC01	Morlab	N/A	N/A				



1.4.3 Radiated Test Equipments

Radi	ated Test Equipments	LAE OFL	MOL	S W	ORLA	WOLE W
No.	Equipment Name	Serial No.	Туре	Manufacturer	Cal. Date	Cal.Due Date
1	Receiver	US44210471	E7405A	Agilent	2015.02.26	2016.02.25
2	Test Antenna - Bi-Log	9163-274	9m*6m*6m	Albatross	2015.02.26	2016.02.25
3	Test Antenna - Horn	9120D-963	VULB 9163	Schwarzbeck	2015.02.26	2016.02.25
4	Test Antenna - Horn	71688	BBHA 9120D	Schwarzbeck	2015.02.26	2016.02.25
5	Test Antenna - Loop	1519-022	HL050S7	R&S	2015.02.26	2016.02.25
6	Reject Filter	(n.a.)	BRM50702	Micro-Tronics	2015.02.26	2016.02.25
7	Coaxial cable (N male)	CB02	EMC02	Morlab	N/A	N/A
8	Coaxial cable (N male)	CB03	EMC03	Morlab	N/A	N/A

1.4.4 Climate Chamber

Climate Chamber								
No.	Equipment Name	Serial No.	Туре	Manufacturer	Cal.Date	Cal.Due Date		
01	Climate Chamber	2004012	HL4003T	Yinhe	2015.02.26	2016.02.25		

1.4.5 Vibration Table

Vibra	ation Table	B QLAP	alah Jorla		MO. SE W. STUB	
No.	Equipment Name	Serial No.	Туре	Manufacturer	Cal.Date	Cal.Due Date
1	Vibration Table	N/A	ACT2000- S015L	СМІ-СОМ	2015.02.26	2016.02.25

1.4.6 Anechoic Chamber

Anec	hoic Chamber	MOL	B W	LAB	Moles	3 ME
No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Anechoic Chamber	N/A	9m*6m*6m	Albatross	2015.02.26	2016.02.25

***** END OF REPORT *****