

<b>Prüfbericht-Nr.:</b> Test Report No.:	<b>50070786 001</b>	<b>Auftrags-Nr.:</b> Order No.:	<b>154220594</b>	<b>Seite 1 von 36</b> Page 1 of 36
<b>Kunden-Referenz-Nr.:</b> Client Reference No.:	<b>654233</b>	<b>Auftragsdatum:</b> Order date:	<b>01.03.2017</b>	
<b>Auftraggeber:</b> Client:	<b>MOBIKE (HONGKONG) LIMITED</b> 2/F HONGKONG OFFSHORE CTR 28, AUSTIN AVENUE TST KLN, HONGKONG			
<b>Prüfgegenstand:</b> Test item:	<b>Mobike Lock</b>			
<b>Bezeichnung / Typ-Nr.:</b> Identification / Type No.:	<b>LB4-5US; LC4-5US</b> <b>FCC ID: 2AK4SLBC4-5US</b>			
<b>Auftrags-Inhalt:</b> Order content:	<b>Complete test</b>			
<b>Prüfgrundlage:</b> Test specification:	<b>FCC CFR47 Part 22, Subpart H</b> <b>FCC CFR47 Part 24, Subpart E</b>			
<b>Wareneingangsdatum:</b> Date of receipt:	<b>12.09.2016</b>			
<b>Prüfmuster-Nr.:</b> Test sample No.:	<b>A000475161-001</b>			
<b>Prüfzeitraum:</b> Testing period:	<b>01.19.2017 to 01.20.2017</b>			
<b>Ort der Prüfung:</b> Place of testing:	<b>MRT Technology(Suzhou) Co., Ltd.</b>			
<b>Prüflaboratorium:</b> Testing laboratory:	<b>TÜV Rheinland (Shanghai) Co., Ltd.</b>			
<b>Prüfergebnis*:</b> Test result*:	<b>Pass</b>			
<b>geprüft von / tested by:</b>		<b>kontrolliert von / reviewed by:</b>		
<b>02.07.2017</b> <b>Datum</b> Date	<b>Elliot Zhang / Senior Project Engineer</b> <b>Name / Stellung</b> Name / Position	<b>02.07.2017</b> <b>Datum</b> Date	<b>Shi Li / Section Manager</b> <b>Name / Stellung</b> Name / Position	<b>SL</b> <b>Unterschrift</b> Signature
<b>Sonstiges / Other</b>				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> Condition of the test item at delivery:		<b>Prüfmuster vollständig und unbeschädigt</b> Test item complete and undamaged		
<p>* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft          Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor          P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet          P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested</p>				
<p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b>  <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

## TEST SUMMARY

**5.1.1 RADIATED POWER**

RESULT: Pass

**5.1.2 PEAK-AVERAGE RATIO**

RESULT: Pass

**5.1.3 OCCUPIED BANDWIDTH**

RESULT: Pass

**5.1.4 SPURIOUS EMISSIONS AT ANTENNA TERMINALS**

RESULT: Pass

**5.1.5 BANDEDGE SPURIOUS EMISSION AT ANTENNA TERMINALS**

RESULT: Pass

**5.1.6 RADIATED SPURIOUS EMISSIONS**

RESULT: Pass

**5.1.7 FREQUENCY STABILITY**

RESULT: Pass

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## 1. General Remarks

### 1.1 Complementary Materials

Null.

## 2. Test Sites

### 2.1 Test Facilities

MRT Technology (Suzhou) Co., Ltd.

D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 809388.

The Industry Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 11384A.

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**
**Radiated Test Equipments**

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MY52090106	05.08.2017
EMI Test Receiver	R&S	ESR 3.6	102030	05.08.2017
Radio Communication Tester	R&S	CMU 200	117129	11.10.2017
Preamplifier	Schwarzbeck	BBV 9718	302	04.16.2017
Preamplifier	Schwarzbeck	BBV9721	9721-008	04.16.2017
Loop Antenna	Schwarzbeck	FMZB1519	1519-041	11.21.2017
Bilog Period Antenna	Schwarzbeck	VULB 9168	662	11.18.2017
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	1457	11.18.2017
Broadband Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170549	01.03.2018
ESG Vector Signal Generator	Agilent	E4438C	MY49872484	12.06.2017
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1167	10.22.2017
Half-Wave Tuned Dipole Antenna	Schwarzbeck	UHA 9105	UHA 91052260	12.24.2017
Temperature/Humidity Meter	Yuhuaaze	ETH529	N/A	12.24.2017
Anechoic Chamber	RIKEN	Chamber-AC2	N/A	05.10.2017

**Conducted Test Equipments**

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
EXA Signal Analyzer	Agilent	N9010A	MY51440166	06.23.2017
Radio Communication Tester	R&S	CMU 200	117129	11.10.2017
USB Wideband Power Sensor	Boonton	55006	8911	05.07.2017
Programmable Temperature & Humidity Chamber	BAOYT	BYH-1500L	1309W043	12.08.2017
Temperature/Humidity Meter	Yuhuaaze	HTC-2	N/A	12.20.2017

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

**Table 2: Measurement Uncertainty**

Item	Conditions	Extended Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Frequency Stability	Conducted	$2.3\%$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Transmitter Spurious Emissions	Radiated	$\pm 5.1\text{dB}$

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUTs (Equipments Under Test) are smart locks which use the technic of GSM / WCDMA / GPS / Bluetooth 4.0 Low Enrgy Only. There are two models: LB4-5US and LC4-5US, all of the two models are the same except the corresponding structure due to different installation method. For details please refer to the user manual and EUT Photos.

The aim of this report is to evalute the RF characteristic of the WCDMA.

For details refer to the User Manual and Circuit Diagram.

#### 3.2 Ratings and System Details

**Table 3: Technical Specification of EUT**

General Description of EUT	
Product Name:	Mobike Lock
Brand Name:	mobike
Model No.:	LB4-5US; LC4-5US
Rated Voltage:	DC 3.7V
Type of Product:	Mobile Device
GSM	
Support Networks:	GPRS, EDGE
Supprot Bands:	Dual band GSM 850/1900MHz
Frequency Range:	GSM850: Tx: 824-849MHz, Rx: 869-894MHz PCS1900: Tx: 1850-1910MHz, Rx: 1930-1990MHz
Modulation Type:	GMSK, 8PSK
Multislot Class:	GPRS: Class 12 EDGE: Class 12
Mobile Station Class:	GPRS: Class B EDGE: Class B
Antenna Type:	PIFA
Antenna Gain:	1.23 dBi
WCDMA	
Support Networks:	WCDMA,HSDPA, HSUPA
Support Bands:	Dual band UMTS 850/1900
Frequency Range:	CLR850: Tx: 824-849MHz, Rx: 869-894MHz PCS1900: Tx: 1850-1910MHz, Rx: 1930-1990MHz

Modulation Type:	BPSK, QPSK, 16QAM
Category:	WCDMA: up to 384kbps DL/UL HSDPA: Cat.8 HSUPA: Cat.6
Antenna Type:	PIFA
Antenna Gain:	1.23 dBi
BLE	
Frequency Range:	2402 – 2480MHz
Modulation Type:	GFSK
Antenna Type:	Monopole
Antenna Gain:	4.83 dBi

**Table 4: RF Channel and Frequency**

Support Band	Support Network	Channel Number	Channel Frequency
UMTS 850	WCDMA/HSDPA/HSUPA	4132	826.4 MHz
		4182	836.4 MHz
		4233	846.6 MHz
UMTS 1900	WCDMA/HSDPA/HSUPA	9262	1852.4 MHz
		9400	1880.0 MHz
		9538	1907.6 MHz

### 3.3 Independent Operation Modes

Test Mode	Network	Band	Channel
TM1	WCDMA	UMTS 850	4132
TM2			4182
TM3			4233
TM4		UMTS 1900	9262
TM5			9400
TM6			9538
TM7	HSDPA	UMTS 850	4132
TM8			4182
TM9			4233
TM10		UMTS 1900	9262
TM11			9400
TM12			9538
TM13	HSUPA	UMTS 850	4132
TM14			4182
TM15			4233
TM16		UMTS 1900	9262
TM17			9400
TM18			9538

Note:

According to the difference between the two models, which will not affect the test result, the Model LB4-5US was chosen for the all tests.



### **3.4 Noise Generating and Noise Suppressing Parts**

Refer to the Circuit Diagram.

### **3.5 Submitted Documents**

- |                    |                      |
|--------------------|----------------------|
| - Bill of Material | - Circuit Diagram    |
| - PCB Layout       | - Instruction Manual |
| - Photo Document   | - Rating Label       |

## **4. Test Set-up and Operation Modes**

### **4.1 Principle of Configuration Selection**

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

### **4.2 Test Operation and Test Software**

The EUT was controlled by Telecommunication Tester Set CMU200 during the test. Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI/TIA-603-D (2010).

### **4.3 Special Accessories and Auxiliary Equipment**

Null.

### **4.4 Countermeasures to achieve EMC Compliance**

Null.

Test Mode	Channel	Frequency [MHz]	ERP [dBm]	ERP [W]	Limit [W]
TM1	4132	826.4	25.03	0.31842	7
<b>TM2</b>	<b>4182</b>	<b>836.6</b>	<b>25.04</b>	<b>0.31915</b>	
TM3	4233	846.6	24.76	0.29923	
TM7	4132	826.4	23.96	0.24889	
TM8	4182	836.6	24.06	0.25468	
TM9	4233	846.6	23.97	0.24946	
TM13	4132	826.4	23.73	0.23605	
TM14	4182	836.6	23.84	0.24210	
TM15	4233	846.6	23.56	0.22699	
Test Mode	Channel	Frequency [MHz]	EIRP [dBm]	EIRP [W]	Limit [W]
<b>TM4</b>	<b>9262</b>	<b>1852.4</b>	<b>25.03</b>	<b>0.31842</b>	2
TM5	9400	1880.0	24.11	0.25763	
TM6	9538	1907.6	23.95	0.24831	
TM10	9262	1852.4	23.27	0.21232	
TM11	9400	1880.0	23.18	0.20797	

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TM12	9538	1907.6	22.7	0.18621	
TM16	9262	1852.4	23.17	0.20749	
TM17	9400	1880.0	22.83	0.19187	
TM18	9538	1907.6	22.14	0.16368	

Note:

$$\text{ERP (dBm)} = \text{SG Reading (dBm)} - \text{Cable Loss (dB)} + \text{Substitute Antenna Gain (dBd)}$$

All the measurements below were based on the Test Mode TM1 to TM6, since the WCDMA seem to be the worst mode according to the results listed in above table.

### 5.1.2 Peak-Average Ratio

**RESULT:****Pass**

Date of testing : 01.20.2017  
Test standard : FCC Part 24.232 (d)  
Limit : <13dB  
Kind of test site : Shielded room

**Test setup**

Test Channel : Middle  
Operation Mode : TM5  
Ambient temperature : 25°C  
Relative humidity : 52%  
Atmospheric pressure : 101kPa

**Table 6: Peak-Average Ratio**

Test Mode	Frequency [MHz]	Peak – Average Ratio [dB]	Limit
TM5	1880.0	4.35	<13dB

### 5.1.3 Occupied Bandwidth

**RESULT:****Pass**

Date of testing : 01.20.2017  
Test standard : FCC Part 2.1049  
Limit : N/A  
Kind of test site : Shielded room

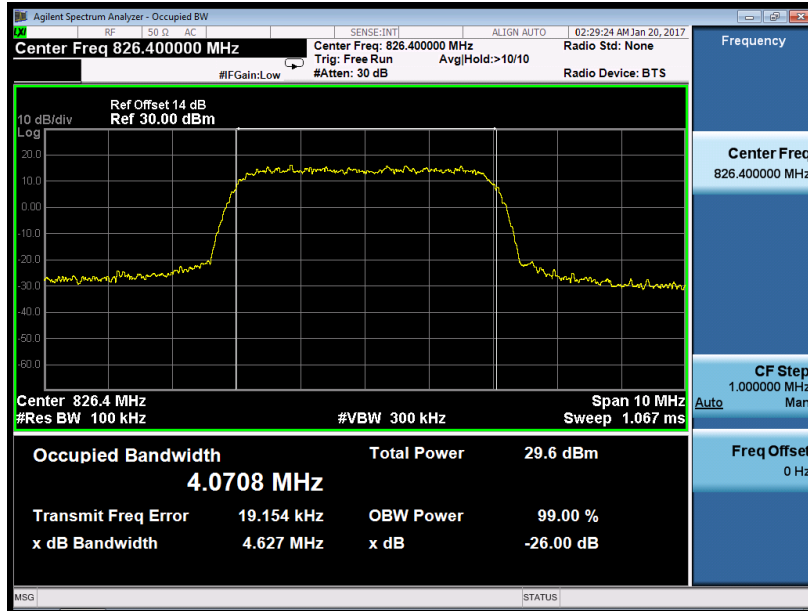
**Test setup**

Test Channel : Low/ Middle/ High  
Operation Mode : TM1 to TM6  
Ambient temperature : 25°C  
Relative humidity : 52%  
Atmospheric pressure : 101kPa

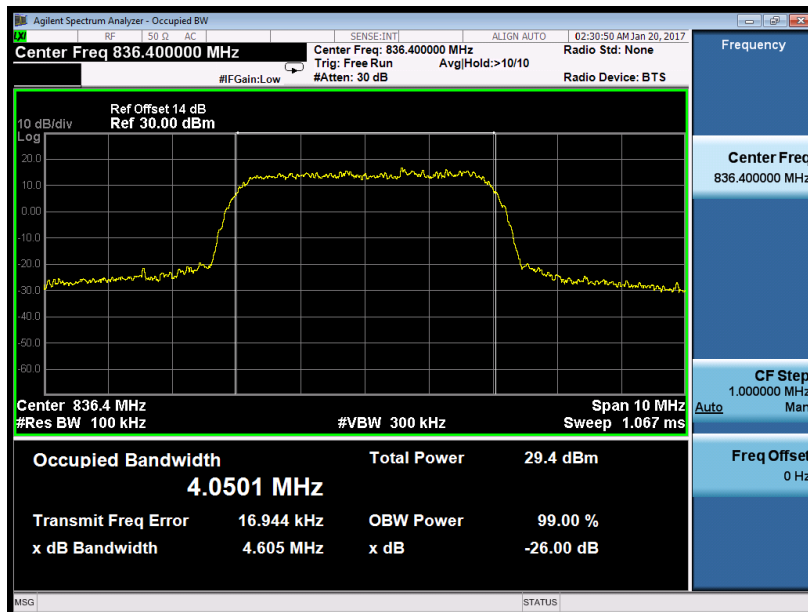
**Table 7: Occupied Bandwidth**

Test Mode	Network	Band	Channel	Frequency [MHz]	99% bandwidth [MHz]	26dB bandwidth [MHz]
TM1	WCDMA	UMTS 850	4132	826.4	4.0708	4.627
TM2			4182	836.4	4.0501	4.605
TM3			4233	846.6	4.0554	4.621
TM4		UMTS 1900	9262	1852.4	4.0551	4.622
TM5			9400	1880.0	4.0672	4.584
TM6			9538	1907.6	4.0749	4.628

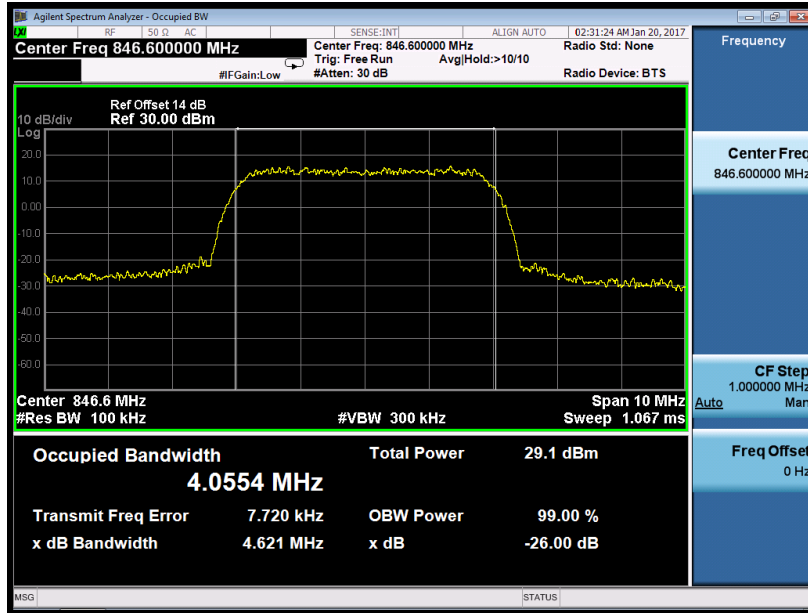
**Figure 1: Occupied Bandwidth, TM1**



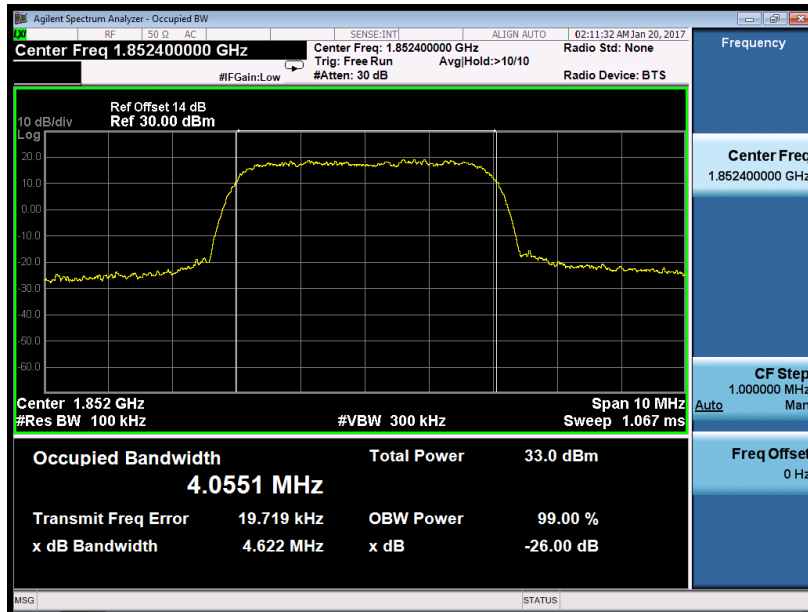
**Figure 2: Occupied Bandwidth, TM2**



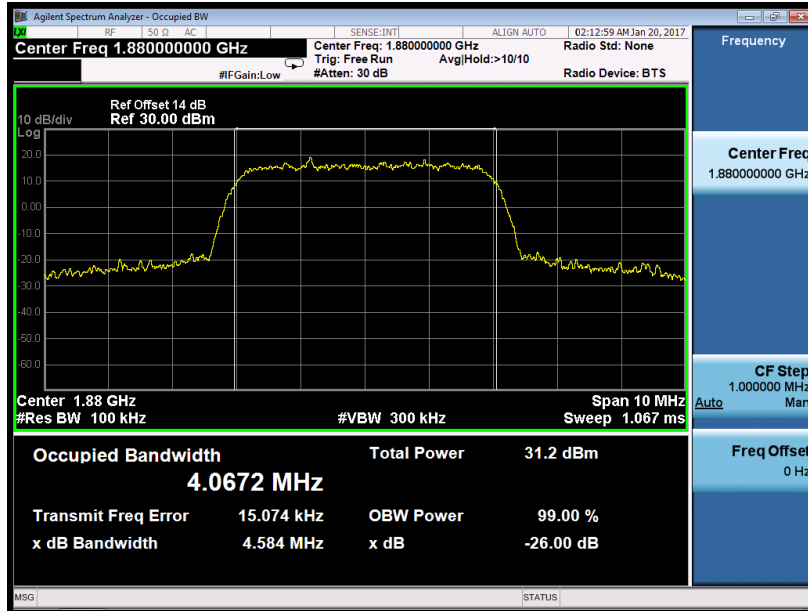
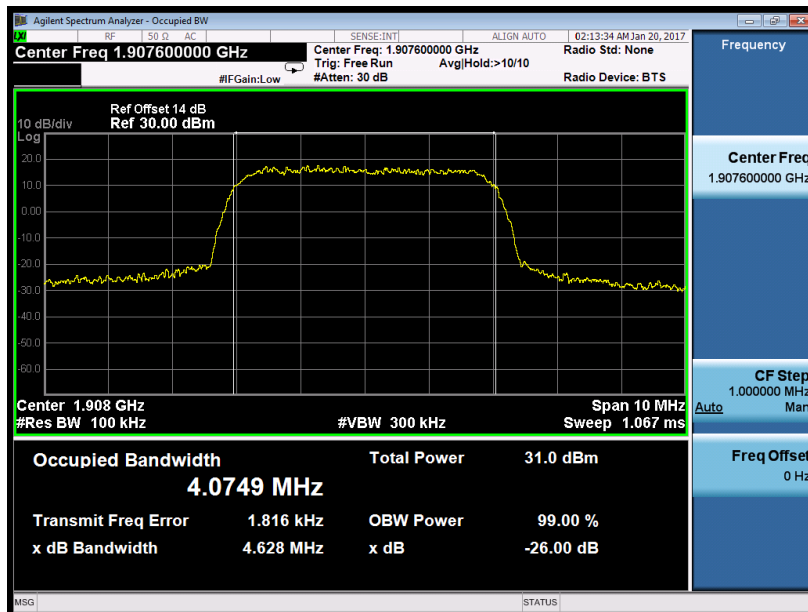
**Figure 3: Occupied Bandwidth, TM3**



**Figure 4: Occupied Bandwidth, TM4**





**Figure 5: Occupied Bandwidth, TM5**

**Figure 6: Occupied Bandwidth, TM6**


### 5.1.4 Spurious Emissions at Antenna Terminals

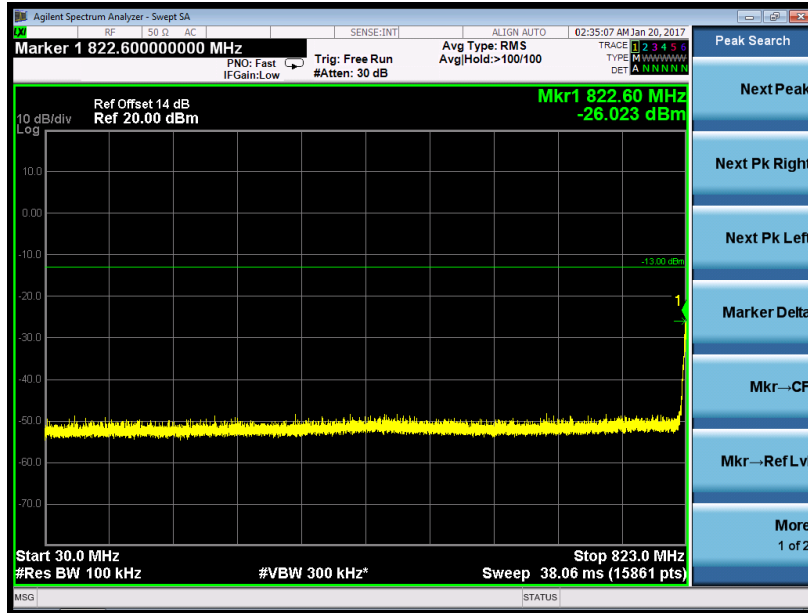
**RESULT:****Pass**

Date of testing : 01.20.2017  
Test standard : FCC Part 2.1051  
FCC Part 22.917 (a)  
FCC Part 24.238 (a)  
Limit : Less than -13dBm  
Kind of test site : Shielded room

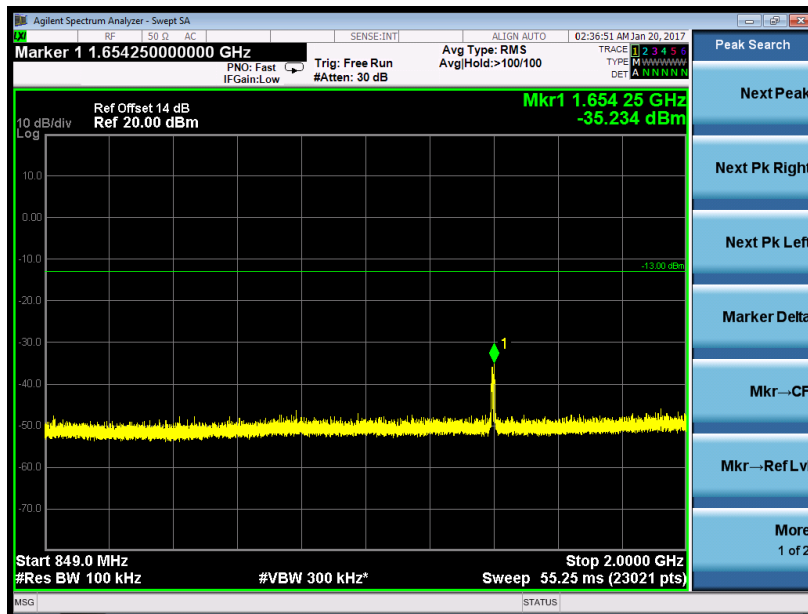
**Test setup**

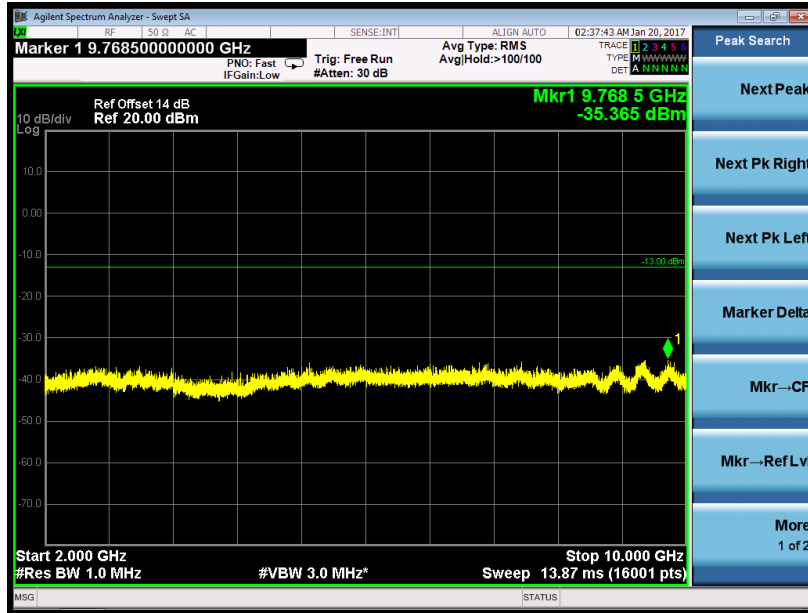
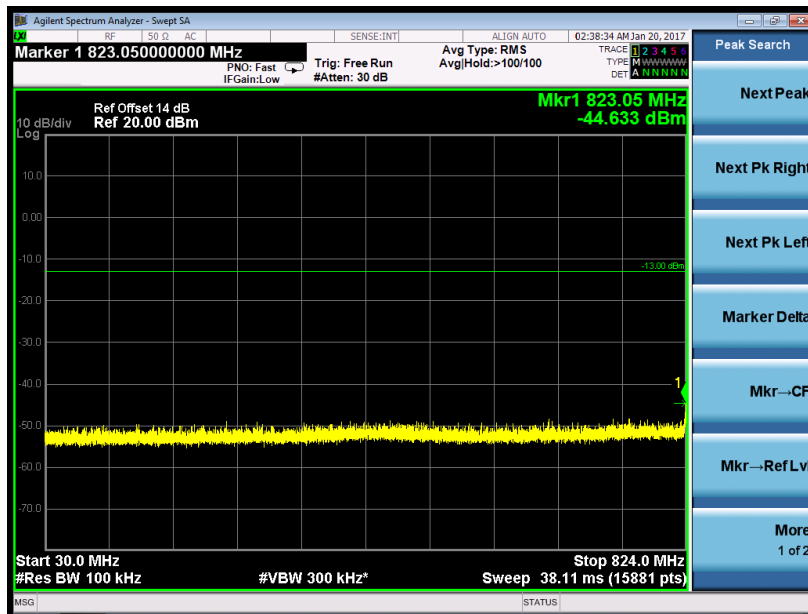
Test Channel : Low/ Middle/ High  
Operation Mode : TM1 to TM6  
Ambient temperature : 25°C  
Relative humidity : 52%  
Atmospheric pressure : 101kPa

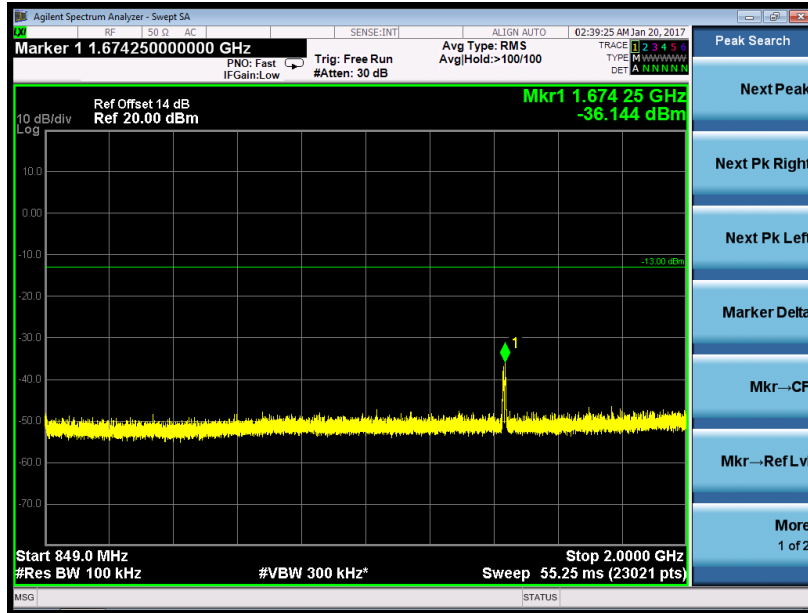
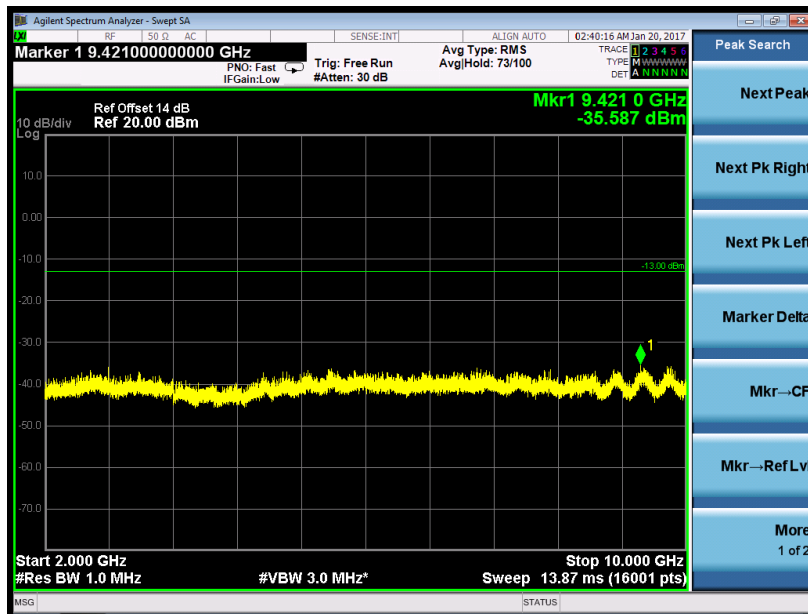
**Figure 7: Conducted Spurious Emission, TM 1, part 1**

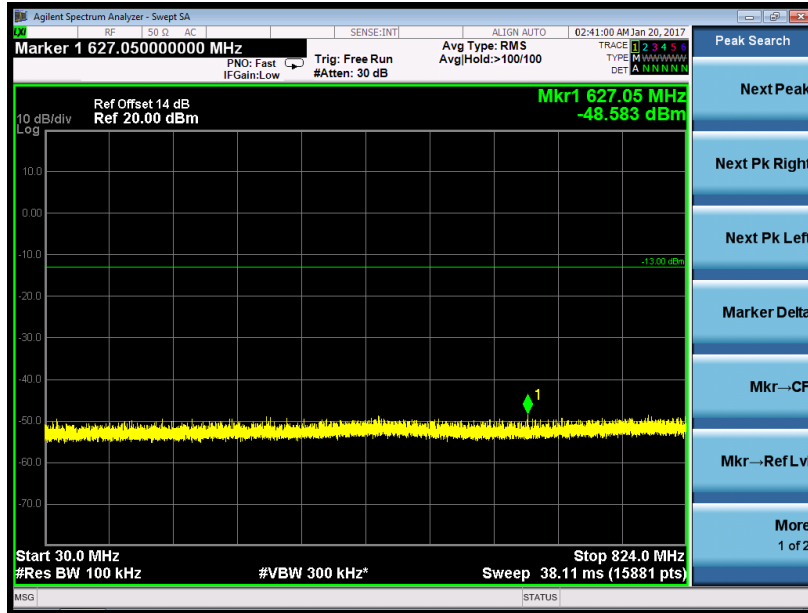
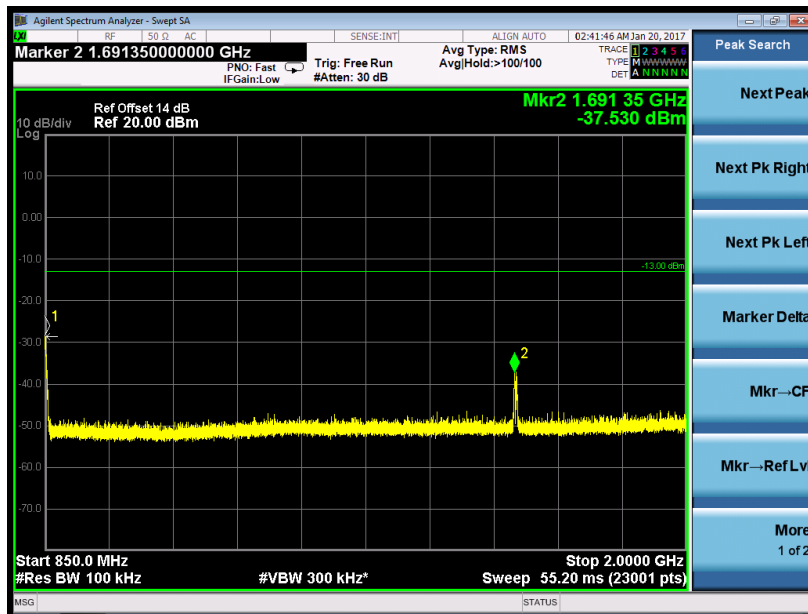


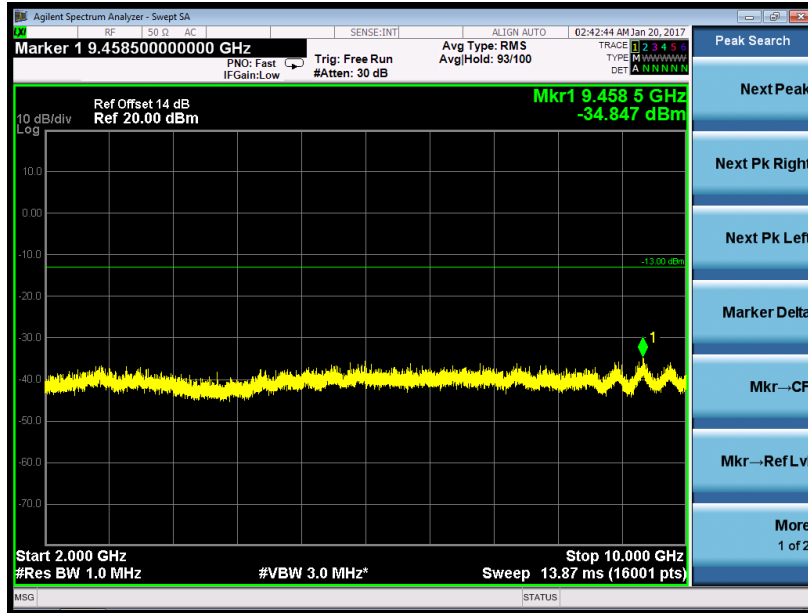
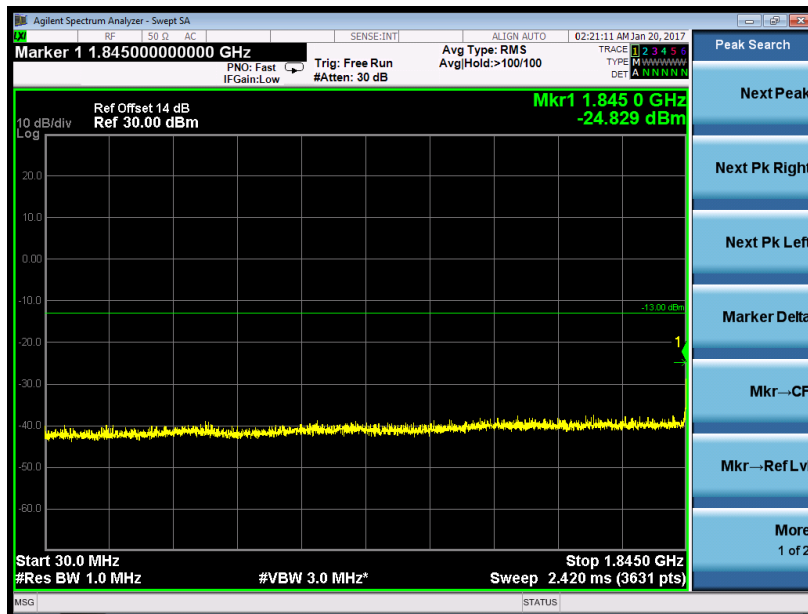
**Figure 8: Conducted Spurious Emission, TM 1, part 2**

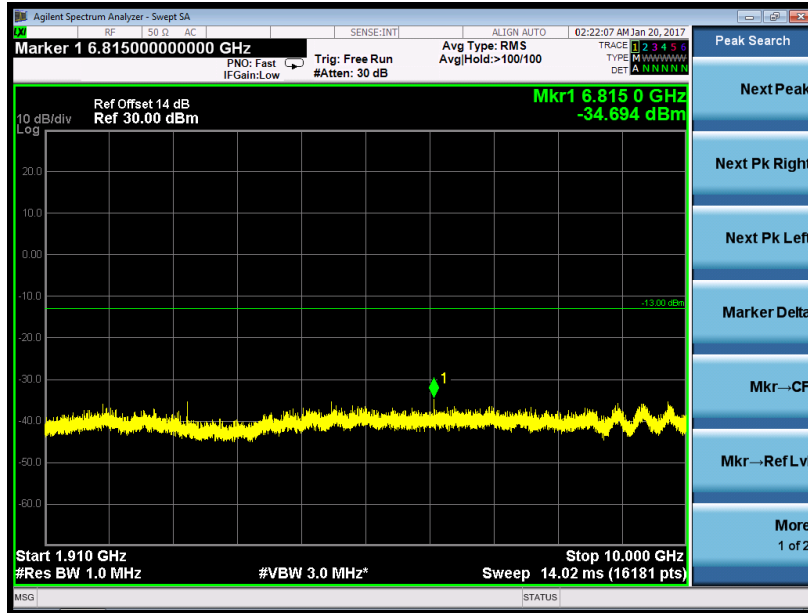
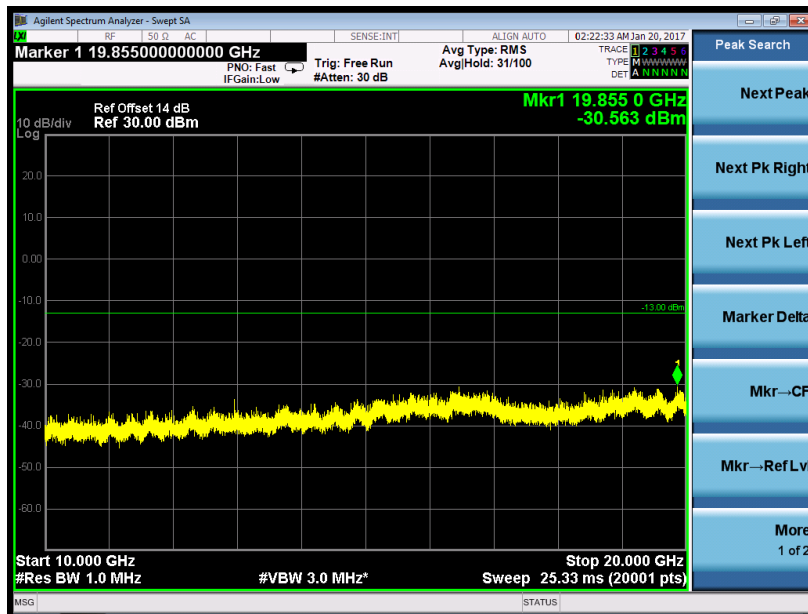


**Figure 9: Conducted Spurious Emission, TM 1, part 3**

**Figure 10: Conducted Spurious Emission, TM 2, part 1**


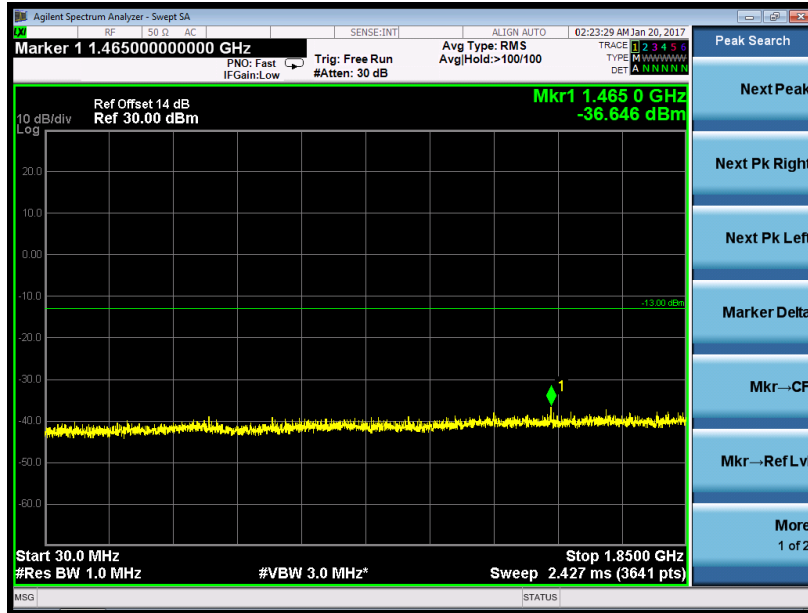
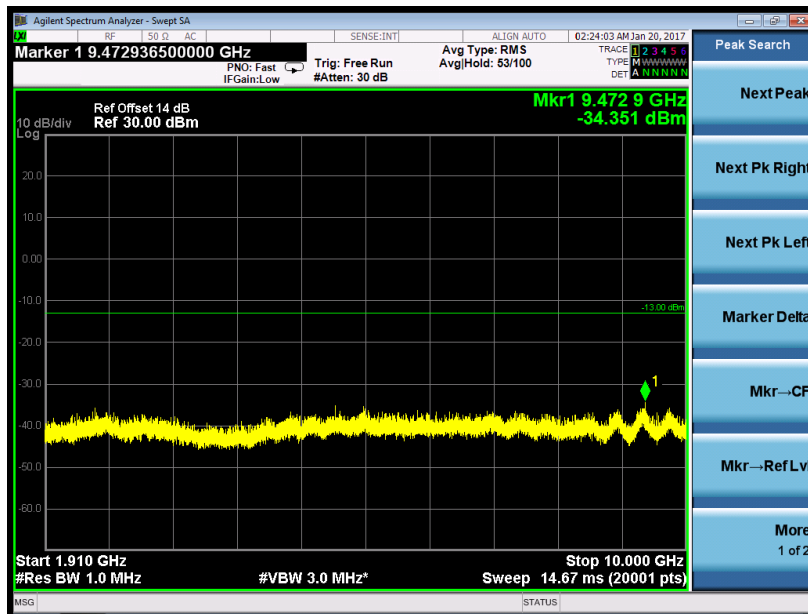
**Figure 11: Conducted Spurious Emission, TM 2, part 2**

**Figure 12: Conducted Spurious Emission, TM 2, part 3**


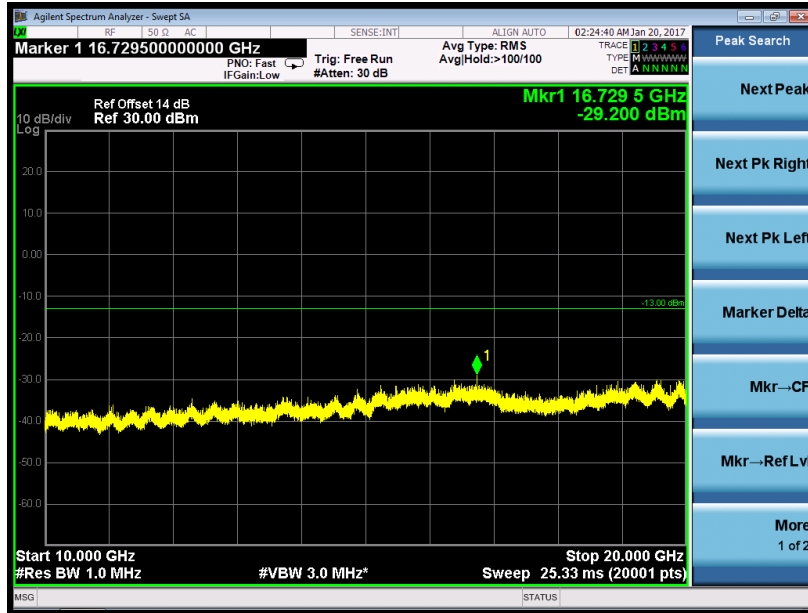
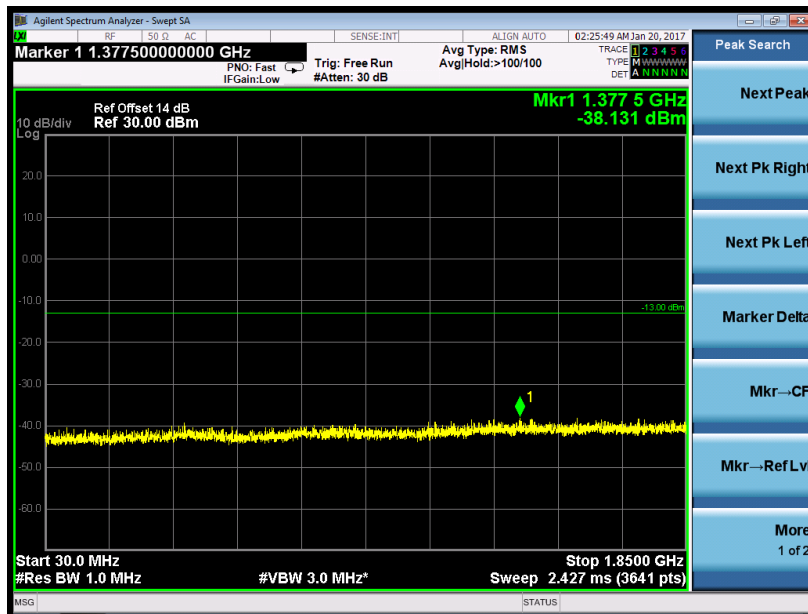
**Figure 13: Conducted Spurious Emission, TM 3, part 1**

**Figure 14: Conducted Spurious Emission, TM 3, part 2**


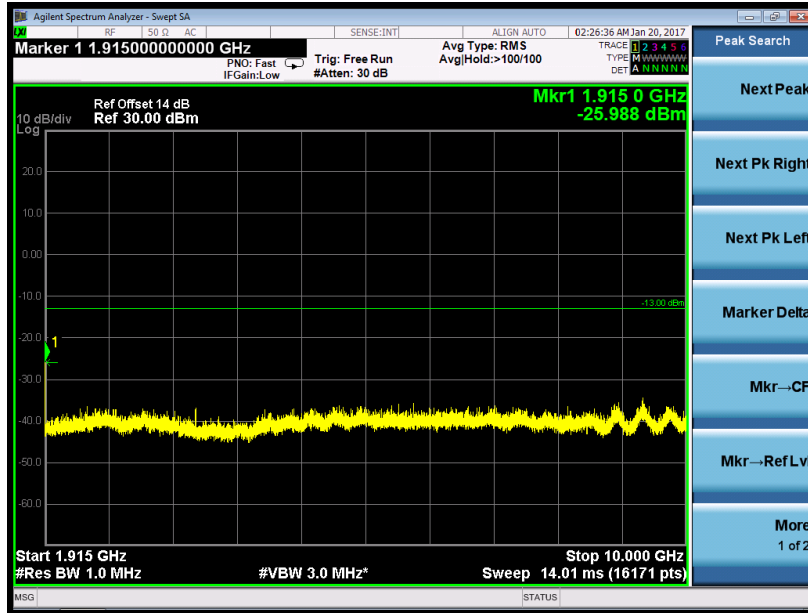
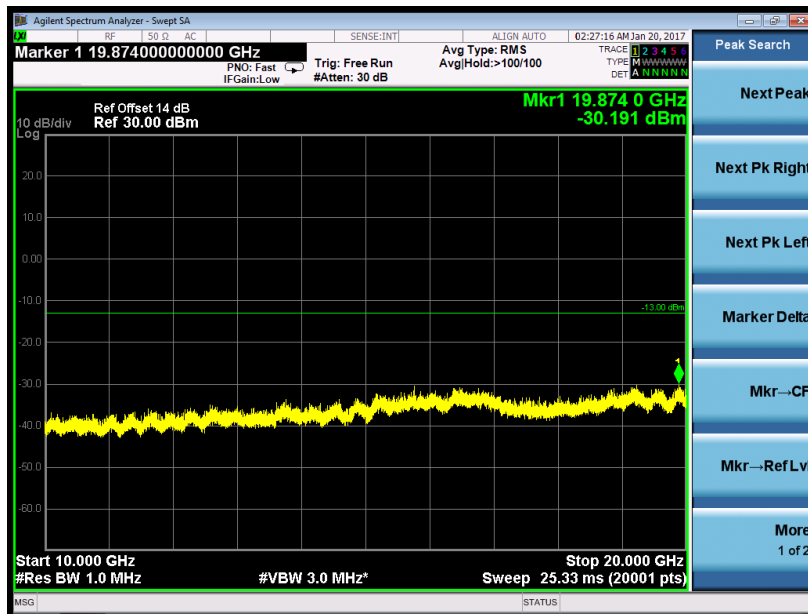
**Figure 15: Conducted Spurious Emission, TM 3, part 3**

**Figure 16: Conducted Spurious Emission, TM 4, part 1**


**Figure 17: Conducted Spurious Emission, TM 4, part 2**

**Figure 18: Conducted Spurious Emission, TM 4, part 3**




**Figure 19: Conducted Spurious Emission, TM 5, part 1**

**Figure 20: Conducted Spurious Emission, TM 5, part 2**


**Figure 21: Conducted Spurious Emission, TM 5, part 3**

**Figure 22: Conducted Spurious Emission, TM 6, part 1**


**Figure 23: Conducted Spurious Emission, TM 6, part 2**

**Figure 24: Conducted Spurious Emission, TM 6, part 3**


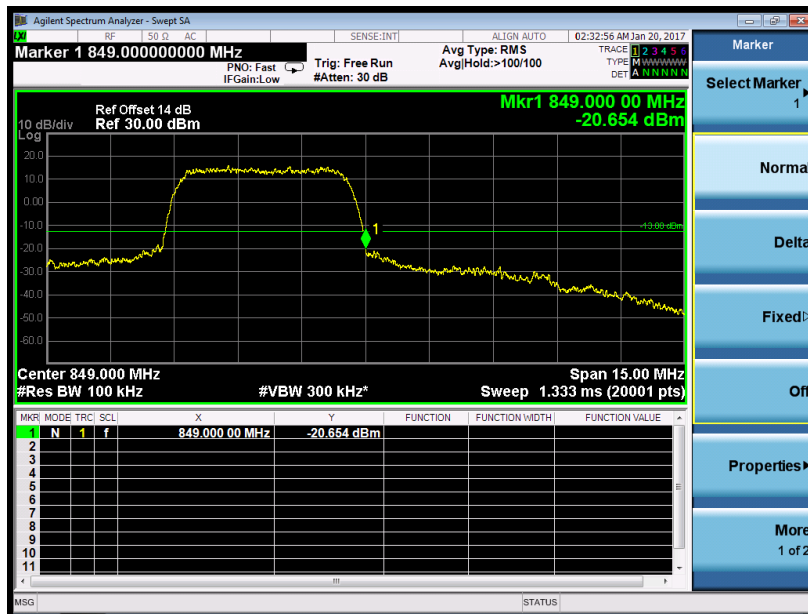
### 5.1.5 Bandedge Spurious Emission at Antenna Terminals

**RESULT:****Pass**

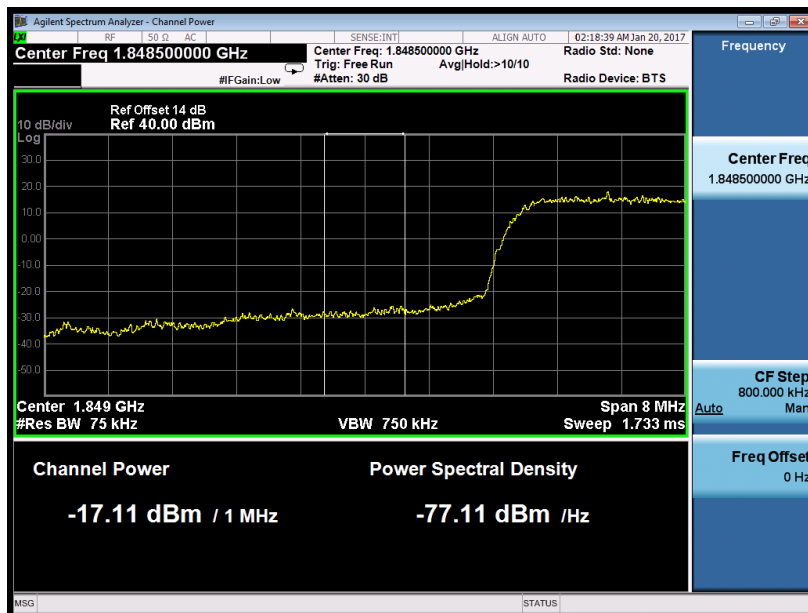
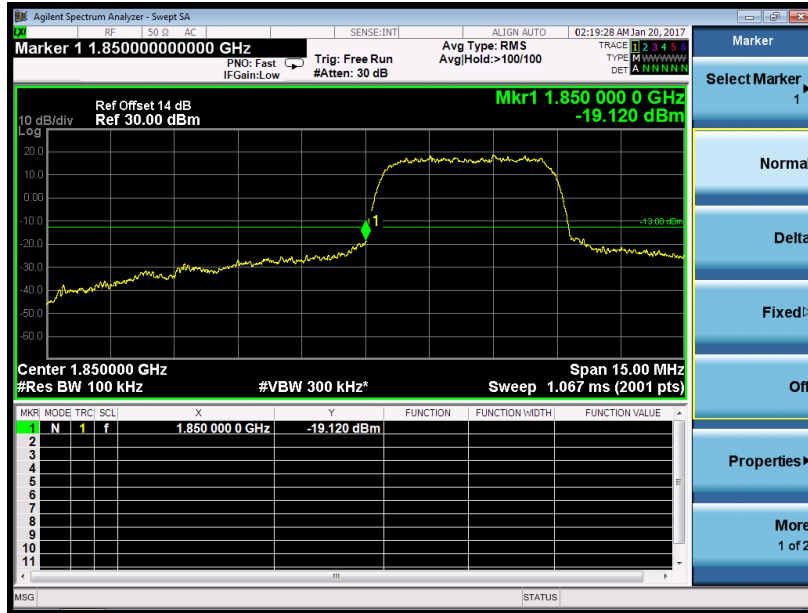
Date of testing : 01.20.2017  
Test standard : FCC Part 2.1051  
FCC Part 22.917 (a)  
FCC Part 24.238 (a)  
Limit : Less than -13dBm  
Kind of test site : Shielded room

**Test setup**

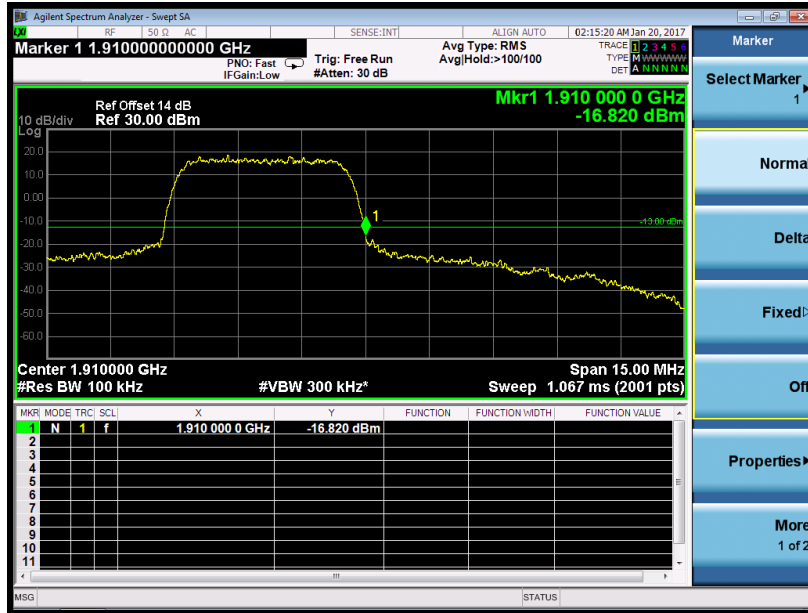
Test Channel : Low / High  
Operation Mode : TM1, TM3, TM4, TM6  
Ambient temperature : 25°C  
Relative humidity : 52%  
Atmospheric pressure : 101kPa



**Figure 27: Bandedge Spurious Emission at Antenna Terminals, TM4**



**Figure 28: Bandedge Spurious Emission at Antenna Terminals, TM6**







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	10843.000	-44.159	1.780	11.564	-34.375	-13	-30.571	H
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Note:

1. Spurious emissions below 30MHz and within 30-1000MHz were found more than 20dB below limit line.
2.  $ERP \text{ (dBm)} = SG \text{ Reading (dBm)} - \text{Cable Loss (dB)} + \text{Substitute Antenna Gain (dBd)}$

## 5.1.7 Frequency Stability

**RESULT:**
**Pass**

Date of testing : 01.20.2017  
 Test standard : FCC Part2.1055  
                   FCC Part 22.355  
                   FCC Part 24.235  
 Limit :  $\pm 2.5\text{ppm}$  for FCC Part 22.355  
           Within assigned bands for FCC Part 24.235  
 Kind of test site : Shielded room

**Test setup**

Test Channel : Middle  
 Operation Mode : TM2, TM5  
 Ambient temperature : 25°C  
 Relative humidity : 52%  
 Atmospheric pressure : 101kPa

**Table 9: Frequency Stability, TM2**

Voltage [%]	Power [VDC]	TEMP [%]	Frequency [Hz]	Freq. Dev [Hz]	Deviation [%]
100%	3.7	+20(Ref)	836400000	-59	0.00000705
		-30	836400000	47	0.00000562
		-20	836400000	53	0.00000634
		-10	836400000	76	0.00000909
		0	836400000	43	0.00000514
		+10	836400000	69	0.00000825
		+20	836400000	-57	0.00000681
		+30	836400000	46	0.00000550
		+40	836400000	52	0.00000622
115%	4.2	+20	836400000	-72	0.00000861
BAT.ENDPOINT	3.6	+20	836400000	-68	0.00000813

**Table 10: Frequency Stability, TM5**

Voltage [%]	Power [VDC]	TEMP [%]	Frequency [Hz]	Freq. Dev [Hz]	Deviation [%]
100%	3.7	+20(Ref)	1,880,000,000	62	0.00000330
		-30	1,880,000,000	74	0.00000394
		-20	1,880,000,000	-63	0.00000335
		-10	1,880,000,000	69	0.00000367
		0	1,880,000,000	-68	0.00000362
		+10	1,880,000,000	72	0.00000383
		+20	1,880,000,000	69	0.00000367

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		+30	1,880,000,000	69	0.00000367
		+40	1,880,000,000	-53	0.00000282
		+50	1,880,000,000	61	0.00000324
115%	4.2	+20	1,880,000,000	68	0.00000362
BAT.ENDPOINT	3.6	+20	1,880,000,000	-73	0.00000388

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