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# ELECTROMAGNETIC EMISSIONS COMPLIANCE **REPORT**

# INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

**Product Name: Integrity base** 

**Brand: MobileHelp** 

**IGB-01 Model Name:** 

**Model Different:** N/A

FCC ID: **VDQIGB-01** 

ER/2009/70081 **Report No.:** 

**Issue Date:** Oct. 12, 2009

§15.231 **Rule Part:** 

**Prepared For:** Daviscomms (S) Pte. Ltd

Blk 70 Ubi Crescent #01-07. Ubi Techpark.

Singapore 408570

SGS Taiwan Ltd. Prepared by:

**Electronics & Communication Laboratory** 

No. 134, Wu Kung Rd., Wuku Industrial

Zone, Taipei County, Taiwan.



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### **VERIFICATION OF COMPLIANCE**

**Applicant:** Daviscomms (S) Pte. Ltd

Blk 70 Ubi Crescent #01-07. Ubi Techpark. Singapore 408570

**Product Name:** Integrity base

**Brand / Marketing Name:** MobileHelp

FCC ID: VDQIGB-01

Model No.: IGB-01

**Model Difference:** N/A

**File Number:** ER/2009/70081

**Date of test:** Jul. 31, 2009 ~ Oct. 09, 2009

**Date of EUT Received:** Jul. 31, 2009

## We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.231.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Jim Chang	Date:	Oct. 12, 2009	
Prepared By:	Jim Chang / Supervisor	Date:	Oct. 12, 2009	
Approved By:	Gigi Yeh / Clerk  Jineut Su / Manager	Date:	Oct. 12, 2009	

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# Version

Version No.	Date	Description
00	Oct. 12, 2009	Initial creation of document



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#### **GENERAL INFORMATION** 1.

### 1.1 Product Description

#### General:

Product Name:	Integrity base
Brand Name:	MobileHelp
Model Name:	IGB-01
Model Difference:	N/A
Power Supply	12V from AC/DC adaptor, Model: ADS18B-B 120150, Supplier: OEM
USB Port:	One provide for data link with PC
RJ11:	One provide for connect PSTN.

#### 433.92MHz:

433.72WIIIZ.	·
Frequency Range:	433.92 MHz
Channel number:	1 channel
Transmit Power	< 76.89dBuV/m (AVG)
Modulation type:	Pulse Modulation
Release Time:	≤ 5 seconds (Manually operated)
Transmitting Time	≤ 2 seconds per hour (Periodic transmission)
Antenna Designation:	Non-User Replaceable (Fixed)

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#### 1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **VDQIGB-01** filing to comply with Section 15.231 of the FCC Part 15, Subpart C Rules.

### 1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

### 1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 & 10 meters) and FCC Registration Number: 94644.

### 1.5 Special Accessories

Not available for this EUT intended for grant.

### 1.6 Equipment Modifications

Not available for this EUT intended for grant.

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#### SYSTEM TEST CONFIGURATION 2.

#### 2.1 EUT Configuration

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

#### 2.2 EUT Exercise

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

#### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

#### 2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 and 13 and Subclause 8.3.1.2 of ANSI C63.4-2003.

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#### 2.4 Limitation

### (1) Conducted Emission

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

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

#### Note

1. The lower limit shall apply at the transition frequencies

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

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### (2) Radiated Emission

According to 15.231(b), the field strength of emissions from Intentional Radiators operated under this section shall not exceed the following:

Fundamental	Field Strength of		Field Strength of	
Frequency	Fundamental		Spurious	
(MHz)	(dBuV/m)	(uV/m)	(dBuV/m)	(uV/m)
40.66 - 40.70	67.04	2,250	40	100
70 - 130	61.94	1,250	34	50
130 - 174	* 61.94 - 71.48	* 1,250 -3,750	* 34 – 43.5	* 50 to 150
174 - 260	71.48	3,750	43.5	150
260 - 470	* 71.48 - 81.94	* 3,750 - 12,500	* 43.5 - 54	* 150 to 500
above 470	81.94	12,500	74	500

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

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of  $\xi$  15.205
- 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of  $\xi$ 15.205, then the general radiated emission limits in  $\xi$ 15.209 apply.
- 5. For the band 130-174MHz, uV/m at 3meters = 56.81818(F) 6136.3636; For the band 260-470MHz uV/m at 3meters = 41.6667(F) 7083.3333; Where F is the frequency in MHz.
- 6. 433.92MHz limit = 41.6667 \* 433.92 7083.33333 = 10996.681 uV/m = 80.8dBuV/m

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## 2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System



**Table 2-1 Equipment Used in Tested System** 

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	N/A					

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### 3. SUMMARY OF TEST RESULTS

FCC Rules	<b>Description Of Test</b>	Result
§15.207	Conducted Emission	Compliant
§15.231	Radiated Emission	Compliant
§15.231(c)	20dB Bandwidth	Compliant
	Duty Cycle Test (Pulse	Compliant
	Modulation)	
§15.231(a)(1)	Release Time Measurement	Compliant
§15.231(a)(3)	Periodic Transmissions Time	Compliant
	Measurement	

# 4. Description of test modes

The EUT has been tested under engineering test mode condition. and the EUT staying in continuous transmitting mode. The Frequency 433.92 MHz is chosen for testing.

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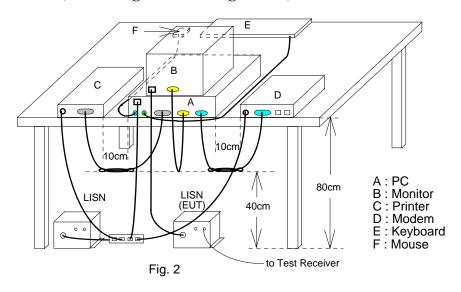
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#### 5. CONDUCTED EMISSIONS TEST (NOT APPLY IN THE REPORT)

#### 5.1 Measurement Procedure:

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

### **5.2** Test SET-UP (Block Diagram of Configuration)



#### **5.3** Measurement Equipment Used:

Conducted Emission Test Site							
EQUIPMENT MFR MODEL SERIAL LAST CAL D							
TYPE		NUMBER	NUMBER	CAL.			
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2009	09/15/2010		
LISN	Rolf-Heine	NNB-2/16Z	99012	02/02/2009	02/01/2010		
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2009	02/01/2010		
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2008	10/29/2009		

#### **5.4** Measurement Result:

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Note: Refer to next page for measurement data and plots.

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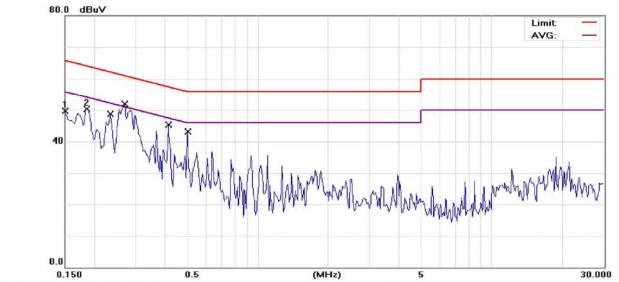


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### AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation			Test Date:	Oct. 09, 2009
Temperature:	23	Humidity:	57 %	Test By:	Jim



Site SGS CONDUCTED #1

Limit: CISPR22/11/EN55022 Class B

**EUT: Integrity Base** M/N: INTEGRITY BS Note: Operation mode

Phase:	L1	Temperature:	23 ℃
Power:	AC 120V/60Hz	Humidity:	57 %
Distance	4.	Air Pressure:	hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	49.49	0.18	49.67	66.00	-16.33	peak	
2		0.1850	50.11	0.14	50.25	64.26	-14.01	peak	
3		0.2345	42.40	0.11	42.51	62.29	-19.78	QP	
4		0.2345	18.47	0.11	18.58	52.29	-33.71	AVG	
5		0.2692	33.97	0.11	34.08	61.14	-27.06	QP	
6		0.2692	19.46	0.11	19.57	51.14	-31.57	AVG	
7		0.4147	38.35	0.08	38.43	57.55	-19.12	QP	
8	*	0.4147	34.83	0.08	34.91	47.55	-12.64	AVG	
9		0.4992	29.31	0.07	29.38	56.01	-26.63	QP	
10		0.4992	23.38	0.07	23.45	46.01	-22.56	AVG	

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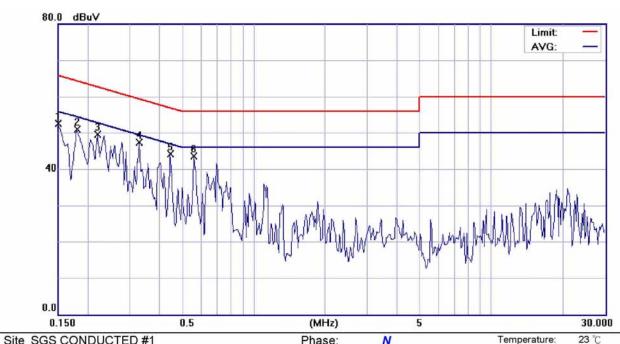
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Site SGS CONDUCTED #1

Limit: CISPR22/11/EN55022 Class B

EUT: Integrity Base M/N: INTEGRITY BS Note: Operation mode Phase: Temperature: AC 120V/60Hz Humidity: Power:

Air Pressure: Distance: hpa

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	0.1500	52.36	0.20	52.56	66.00	-13.44	peak		
2	0.1800	50.69	0.16	50.85	64.49	-13.64	peak		
3	0.2200	49.41	0.14	49.55	62.82	-13.27	peak		
4 *	0.3300	47.21	0.12	47.33	59.45	-12.12	peak		
5	0.4450	44.08	0.11	44.19	56.97	-12.78	peak		
6	0.5600	43.39	0.10	43.49	56.00	-12.51	peak		

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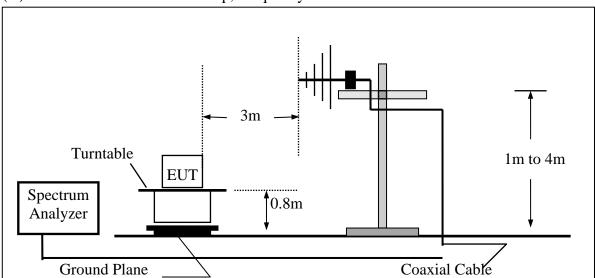
#### 6. RADIATED EMISSION TEST

#### 6.1 Measurement Procedure

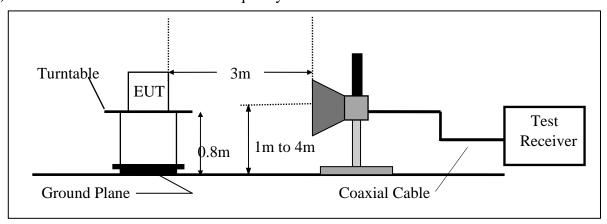
- The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- And also, each emission was to be maximized by changing the polarization of receiving 3. antenna both horizontal and vertical.
- 4. Repeat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

## **6.2** Test SET-UP (Block Diagram of Configuration)

### (A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



### (B) Radiated Emission Test Set-UP Frequency Over 1 GHz



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### **6.3** Measurement Equipment Used:

966 Chamber										
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.					
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2009	02/11/2010					
Loop antenna	MESSTEC	FLA30	03/10086	07/08/2009	07/07/2011					
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2008	11/14/2009					
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010					
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009					
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2009	01/04/2010					
Turn Table	HD	DT420	N/A	N.C.R	N.C.R					
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R					
Controller	HD	HD100	N/A	N.C.R	N.C.R					
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2009	01/04/2010					
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2009	01/04/2010					
3m Site	SGS	966 chamber	N/A	11/08/2008	11/09/2009					

## 6.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Average Value = Peak Value + 20 Log (Ton/Tp) ...... Pulse Modulation

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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#### **6.5** Measurement Result

Operation Mode: Transmitting Mode Test Date: Aug. 31, 2009

Fundamental Frequency: 433.92 MHz

Test By: Sky

Temperature: 25 °C

Pol: Vertical

Humidity: 65 %

			Pe ak	AV		Pe ak	AV	Peak	AV		
Freq.	F	Ant.Pol.	Reading	Correct	Ant./CL	Level	Level	Limit	Limit	Margin	
(MHz)	/S	(H/V)	(dBuV)	dB	CF(dB)	(dBuV/m)	(dBuV/m)	(dB uV/m)	(dBuV/m)	(dB)	_
433.92	F	V	74.09	- 5.48	-9.01	65.08	59.60	100.80	80.80	-21.20	ΑV
867.84	S	V	49.89	- 5.48	- 1.63	48.26	42.78	80.80	60.80	-18.02	AV
1301.76	*S	V	40.54	- 5.48	- 6.81	33.73	28.25	74.00	54.00	-25.75	AV
1735.68	S	V	38.36	- 5.48	- 4.75	33.61	28.13	80.80	60.80	-32.67	AV
2169.60	S	V		- 5.48	- 2.54			80.80	60.80		
2603.52	S	V	45.11	- 5.48	- 0.60	44.51	39.03	80.80	60.80	-21.77	AV
3037.44	S	V	37.23	- 5.48	0.56	37.79	32.31	80.80	60.80	-28.49	AV
3471.36	S	V	43.15	- 5.48	1.97	45.12	39.64	80.80	60.80	-21.16	AV
3905.28	*S	V	36.86	- 5.48	3.38	40.24	34.76	74.00	54.00	-19.24	AV
4339.20	*S	V		- 5.48	4.79			74.00	54.00		

#### Remark:

- (1) + F/S F: denotes Fundamental Frequency; S: denotes Spurious Frequency
- (2) EUT Orthogonal Axes: Laid on Table
- (3) Measuring frequencies from 30 MHz to the 10th harmonic of fundamental frequency of 433.92 MHz.
- (4) Dates of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) \* Denotes spurious frequency, which falls within the Restricted Bands specified in provision of  $\xi$ 15.205, then the general radiated emission limits in  $\xi$  15.209 apply.
- (6) Peak Setting: 30MHz 1000MHz, RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 5GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms

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Operation Mode: Transmitting Mode Test Date: Aug. 31, 2009

Fundamental Frequency: 433.92MHz Test By: Sky

Temperature: Pol: Horizontal 25 °C

Humidity: 65 %

			Pe ak	AV		Pe ak	AV	Peak	AV		
Freq.	F	Ant.Pol.	Reading	Correct	t Ant./CL	Level	Level	Limit	Limit	Margin	
(MHz)	/S	(H/V)	(dBuV)	dB	CF(dB)	(dBuV/m)	(dBuV/m)	(dB uV/m)	(dBuV/m)	(dB)	_
433.92	F	Н	92.83	- 5.48	-9.01	83.82	78.34	100.80	80.80	-2.46	ΑV
867.84	S	Н	62.78	- 5.48	- 1.63	61.15	55.67	80.80	60.80	-5.13	ΑV
1301.76	*S	Н	45.46	- 5.48	- 6.81	38.65	33.17	74.00	54.00	-20.83	AV
1735.68	S	Н	41.74	- 5.48	- 4.75	36.99	31.51	80.80	60.80	-29.29	AV
2169.60	S	Н		- 5.48	- 2.54			80.80	60.80		
2603.52	S	Н	45.74	- 5.48	- 0.60	45.14	39.66	80.80	60.80	-21.14	AV
3037.44	S	Н	40.45	- 5.48	0.56	41.01	35.53	80.80	60.80	-25.27	AV
3471.36	S	Н	50.90	- 5.48	1.97	52.87	47.39	80.80	60.80	-13.41	AV
3905.28	*S	Н	39.02	- 5.48	3.38	42.40	36.92	74.00	54.00	-17.08	AV
4339.20	*S	Н		- 5.48	4.79			74.00	54.00		

#### Remark:

- (1) + F/SF: denotes Fundamental Frequency; S: denotes Spurious Frequency
- (2) EUT Orthogonal Axes: Laid on Table
- (3) Measuring frequencies from 30 MHz to the 10th harmonic of fundamental frequency of 433.92 MHz.
- (4) Dates of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) \* Denotes spurious frequency, which falls within the Restricted Bands specified in provision of  $\xi$ 15.205, then the general radiated emission limits in  $\xi$  15.209 apply.
- Peak Setting: 30MHz 1000MHz, RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 5GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms

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#### 7. 20DBOCCUPIED BANDWIDTH

#### 7.1 Measurement Procedure

- The EUT was placed on a turn table which is 0.8m above ground plane.
- Set EUT as normal operation
- Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10KHz, Span =100KHz.
- Set SPA Max hold. Mark peak, -20dB.

### 7.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

## 7.3 Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

#### 7.4 Measurement Results

Refer to attached data chart.

The center frequency  $f_c$  is 433.92MHz, according to the Rules, section 15.231(C), the Bandwidth of Center Frequency at-20dB should be calculated as following:

$$433.92 \times 0.0025 = 1.0848(MHz)$$

So, the Uper/Lower frequencies limit should be specified as:

$$f_{(U)} = f_c + \Delta f/2 = 433.92 + 0.5424 = 434.46(MHz)$$

$$f_{(L)} = f_c - \Delta f/2 = 433.92 - 0.5424 = 433.377$$
 (MHz)

Measurement Result:

-20dB bandwidth = 45.4kHz within allowed frequency range.

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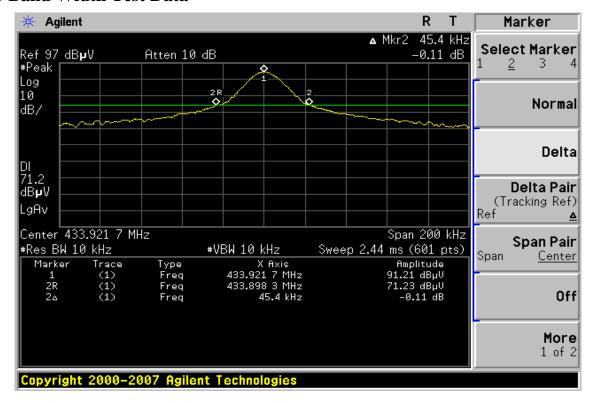
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### 20dB Band Width Test Data



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### 8. DUTY CYCLE MEASUREMENT

### 8.1 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set ETU normal operating mode.
- 3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 100KHz, Span =0 Hz. Adjacent sweep.
- 4. Set SPA View. Mark delta.

### 8.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

### **8.3** Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

### **8.4** Measurement Results:

Ton = 1.667(ms)\*21 +0.827(ms)\*22 = 53.201(ms) Tp> 100 (ms), Average Correction Factory = 20log (Ton/Tp) =20log (53.201/100) =-5.48 dB

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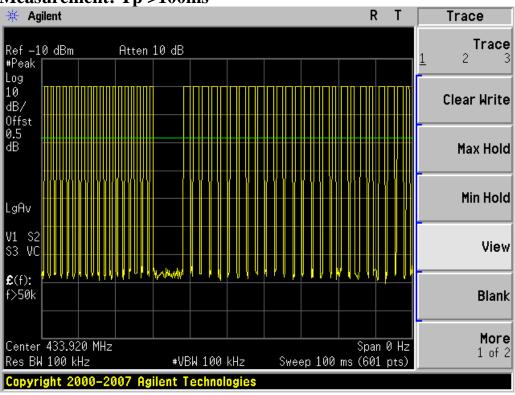
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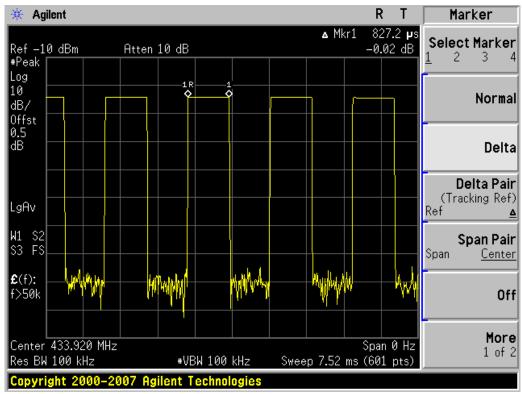


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Ton Measurement: Tp >100ms





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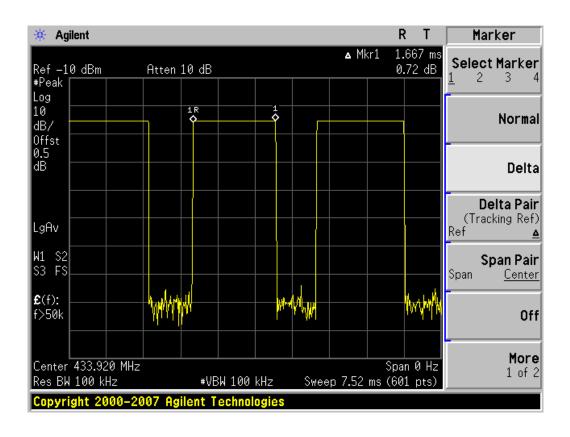
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### 9. RELEASE TIME MEASUREMENT:

15.231 (a) (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

#### 9.1 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 100 KHz, Span =0Hz. Sweep Time= 5s.
- 3. Set EUT as normal operation and press Transmitter bottom and release immediately.
- 4. Set SPA Max hold. Delta Mark.

### 9.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

### 9.3 Measurement Equipment Used:

台灣檢驗科技股份有限公司

Same as 6.3 Radiated Emission Measurement.

#### 9.4 Measurement Results

The release time less than 5 s.

Refer to attached data chart.

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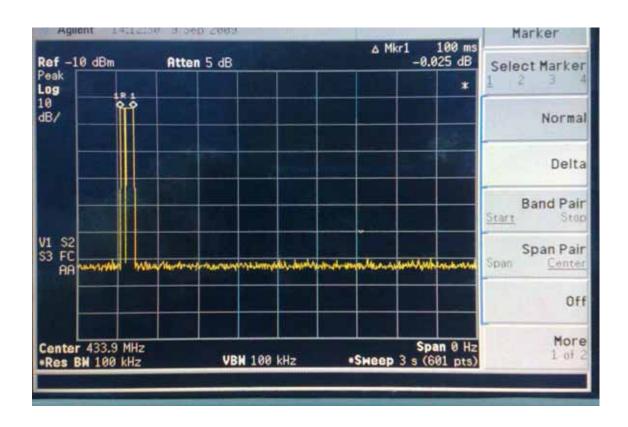
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### 10. PERIODIC TRANSMISSIONS TIME MEASUREMENT:

15.231 (a) (3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.

### **10.1 Measurement Procedure**

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10 KHz, Span =0Hz. Sweep Time= 600/3s
- 3. Set EUT as normal operation,
- 4. Set SPA Max hold. Delta Mark.

### 10.2 Test SET-UP (Block Diagram of Configuration)

Same as 6.3 Radiated Emission Measurement.

#### 10.3 Measurement Equipment Used:

Same as 6.3 Radiated Emission Measurement.

#### 10.4. Measurement Results

Ton time: 100ms Tperiod: 306.3s

3600/306.3 = 11.7 total cycle per hour

Total Ton time within a hour: 11.7 \*100 ms = 1.17 s per hour

1.17s < 2s within a hour

Refer to attached data chart.

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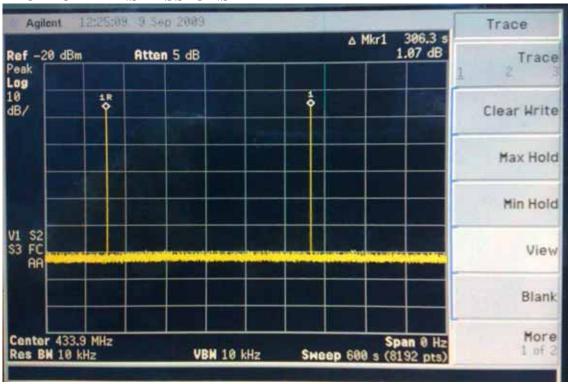
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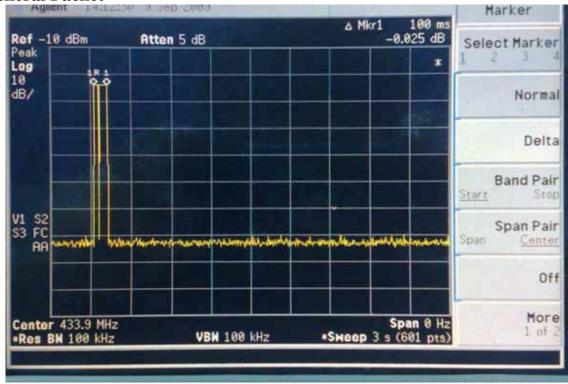
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### PERIODIC TRANSMISSIONS TIME



### **General Packet**



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