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# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product name:	Wireless Calculator Mobile Mini Keypad
Model Name:	WKP-300
FCC ID:	GM8WKP300
<b>REPORT NO:</b>	ER/2004/20011
ISSUE DATE:	Feb. 11, 2004
FCC Rule Part:	§15.227
Prepared for	Ortek Technology Inc.
	13F, Number 150, Jian Yi Rd., Chung Ho City, Taipei Hsien, Taiwna, R.O.C.
Prepared by	SGS Taiwan Ltd.
	No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei County, Taiwan.

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## **VERIFICATION OF COMPLIANCE**

Applicant:	Ortek Technology Inc. 13F, Number 150, Jian Ti Rd., Chung Ho City, Taipei Hsien, Taiwan, R.O.C.
Product Description:	Wireless Calculator Mobile Mini Keypad
FCC ID Number:	GM8WKP300
Model No.:	WKP-300
Model Difference:	N/A
File Number:	ER/2004/20011
Date of test:	Feb. 8, 2004

## We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. 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 (1992) 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 15.227.

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

Test By:	Willis Chen	Date	Feb. 11, 2004
- Approved By	Willis Chen Timent In	Date	Feb. 11, 2004
-	Vincent Su		

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## 1. GENERAL INFORMATION

## 1.1 Product Description

The Ortek Technology Inc. Model: WKP-300 (referred to as the EUT in this report) The EUT is an short range, lower power, Wireless Calculator Mobile Mini Keypad designed as an " Input Device. It is designed by way of utilizing the FSK modulation achieves the system operating.

A major technical descriptions of EUT is described as following:

- A). Operation Frequency: 27.095MHz, one channel.
- B). Modulation : Frequency Shifting Key (FSK) Modulation
- C). Antenna Designation: Non-User Replaceable (Fixed)
- D). Power Supply: 1.5 Vdc by AAA \*1 Battery.

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

This submittal(s) (test report) is intended for FCC ID: <u>GM8WKP300</u> filing to comply with Section 15.227 of the FCC Part 15, Subpart C Rules. The composite system (receiver) is compliance with Subpart B is authorized under a DoC procedure.

## 1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (1992). Radiated testing was performed at an antenna to EUT distance 3 meters.

## 1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 1992 and CISPR 22/EN 55022 requirements. Site No. 1(3 &10 meters) Registration Number: 94644, Anechoic chamber (3 meters) Registration Number: 573967

## **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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## 2. System Test Configuration

## 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 (Not apply in the report)

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4-1992.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 according to the requirements in Section 13.1.4.1 of ANSI C63.4-1992.

## 2.4 Limitation

## (1) Conducted Emission (Not applicable in this report)

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





Frequency range		Limits dB (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.

#### (2) Radiated Emission

- a. The field strength of any emission within this band (section 15.227 frequency between 26.96MHz -27.28MHz) shall not exceed 10000 micro volts/meter at 3 meters. (80dBuV at 3m) The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in section 15.35 for limiting peak emissions apply.
- b. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in section 15.209(Intentional Radiators general limit).as below.

Frequency (MHz)	Field strength $\mu V/m$	Distance (m)	Field strength at 3m dBµV/m
1.705-30	30	30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

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.

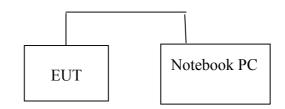


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## 2.5 Configuration of Tested System

## Fig. 2-1 Configuration of Tested System



## Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	FCC ID	Series No.	Data Cable	Power Cord
1.	Notebook PC	IBM	Т30	DOC	99AMZR1	80 cm, un-shield	1.5m un-shield

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## 3. Summary Of Test Results

FCC Rules	Description Of Test	Result
§15.207	Conducted Emission	N/A
§15.227	Radiated Emission	Compliant
§15.227	26 dB Bandwidth	Compliant

## 4. Description of test modes

The EUT has two operating modes, one is normal operating condition, the other is charging with operating mode.

The EUT stay in charging and continuous transmitting mode. The frequency 27.095 MHz is chosen for full testing.



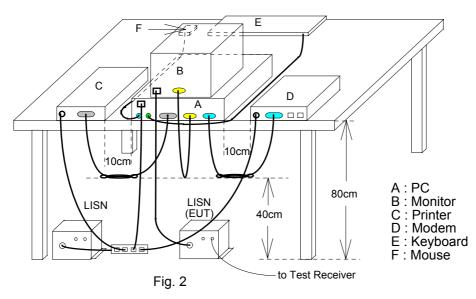


5. Conducted Emissions Test (Not apply in the report)

## 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)



#### **Conducted Emission Test Site EQUIPMENT** MFR LAST CAL DUE. **MODEL SERIAL** TYPE **NUMBER** NUMBER CAL. **EMC** Analyzer HP 8594EM 3624A00203 12/31/2003 12/30/2004 **EMI Test Receiver** R&S ESCS30 828985/004 01/15/2003 01/14/2004 LISN 99012 **Rolf-Heine** NNB-2/16Z 12/30/2003 12/29/2004 11/05/2004 LISN **Rolf-Heine** NNB-2/16Z 99013 11/06/2003

## 5.3 Measurement Equipment Used:

## 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.



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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Charger Mode			Test Date:	Apr. 05, 2004
Temperature:	22 °C	Humidity:	63 %	Test By:	Willis

FREQ	Q.P.	AVG	Q.P.	AVG	Q.P.	AVG	NOTE
MHz	Raw	Raw	Limit	Limit	Margin	Margin	
	dBuV	dBuV	dBuV	dBuV	dB	dB	
0.200	48.10		63.61		-15.51		L1
0.250	50.96	43.50	61.76	51.76	-10.80	-8.26	L1
0.320	50.71	45.20	59.71	49.71	-9.00	-4.51	L1
0.340	46.96		59.20		-12.24		L2
0.430	36.93		57.25		-20.32		L1
0.580	35.57		56.00		-20.43		L1
0.170	48.88		64.96		-16.08		L2
0.230	45.41		62.45		-17.04		L3
0.330	40.97		59.45		-18.48		L4
0.410	42.89		57.65		-14.76		L2
0.580	41.06		56.00		-14.94		L2
0.830	38.82		56.00		-17.18		L2

Remark :

- (1) Measuring frequencies from 0.15 MHz to 30MHz  $\circ$
- (2) The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Qusia-Peak detector and Average detector.
- (3) "---" denotes the emission level was or more than 2dB below the Average limit, so no re-check anymore.
- (4) The IF bandwidth of SPA between 0.15MHz to 30MHz was 10KHz;

The IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9KHz;

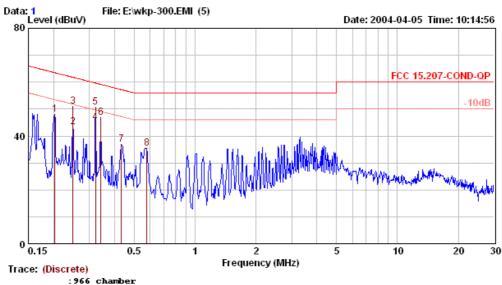
(5) L1 = Line One (Hot side) / L2 = Line Two (Neutral side)



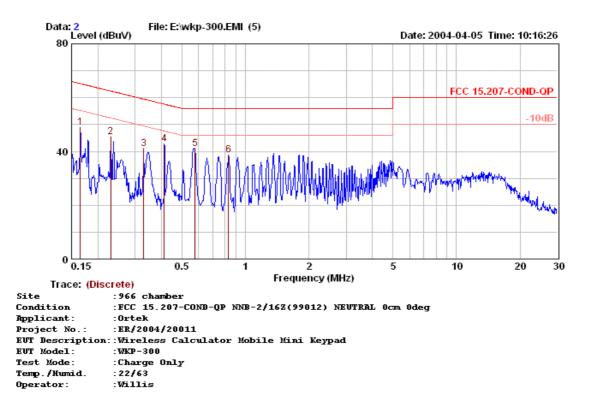
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## **Conducted Emission Test Plot**



Site Condition :FCC 15.207-COND-QP NNB-2/16Z(99012) LINE 0cm 0deg Applicant: :Ortek :ER/2004/20011 Project No.: EVT Description::Wireless Calculator Mobile Mini Keypad EVT Model: :WKP-300 Test Mode: :Charge Only Temp./Humid. : 22/63 Operator: :Willis



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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Charger and Operation Mode			Test Date:	Apr. 05, 2004
Temperature:	22 °C	Humidity:	63 %	Test By:	Willis

FREQ	Q.P.	AVG	Q.P.	AVG	Q.P.	AVG	NOTE
MHz	Raw	Raw	Limit	Limit	Margin	Margin	
	dBuV	dBuV	dBuV	dBuV	dB	dB	
0.160	41.59		65.46		-23.87		L1
0.250	41.17		61.76		-20.59		L1
0.360	45.68		58.73		-13.05		L1
0.440	36.66		57.06		-20.40		L2
0.560	36.31		56.00		-19.69		L1
3.290	38.24		56.00		-17.76		L1
0.170	44.19		64.96		-20.77		L2
0.250	44.99		61.76		-16.77		L3
0.290	55.61	45.40	60.52	50.52	-4.91	-5.12	L4
0.350	40.53		58.96		-18.43		L2
0.490	43.37		56.17		-12.80		L2
0.580	41.26		56.00		-14.74		L2

Remark :

- (1) Measuring frequencies from 0.15 MHz to 30MHz  $\circ$
- (2) The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Qusia-Peak detector and Average detector.
- (3) "---" denotes the emission level was or more than 2dB below the Average limit, so no re-check anymore.
- (4) The IF bandwidth of SPA between 0.15MHz to 30MHz was 10KHz;

The IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9KHz;

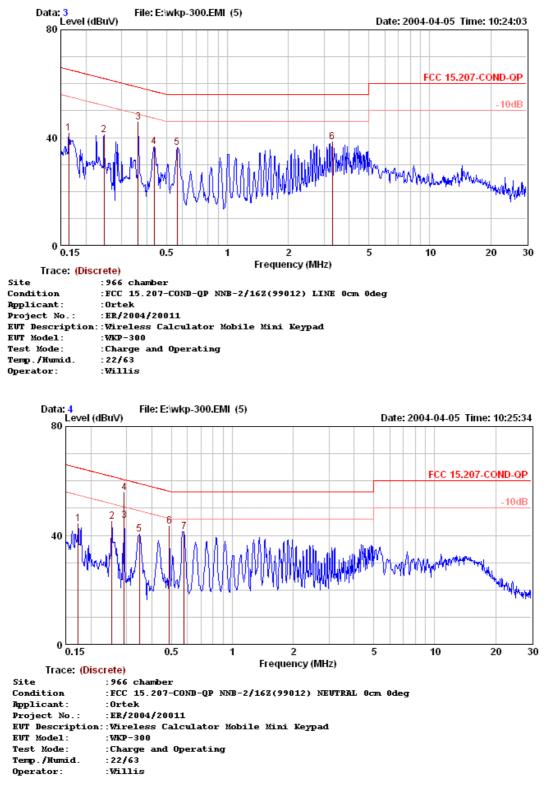
(5) L1 = Line One (Hot side) / L2 = Line Two (Neutral side)



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## **Conducted Emission Test Plot**



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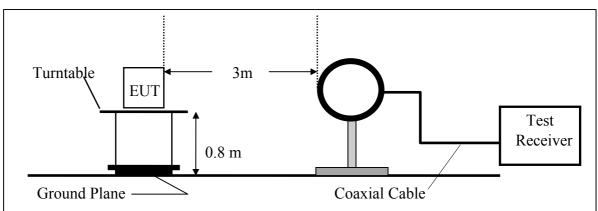
## 6. Radiated Emission Test

## 6.1 Measurement Procedure

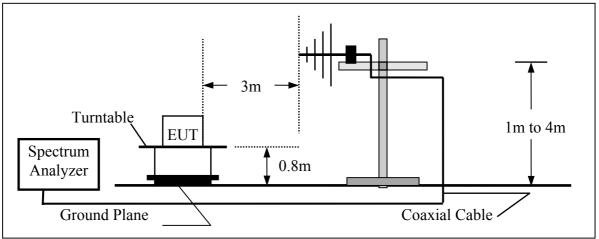
- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat 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 30MHz



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



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#### 6.3 Measurement Equipment Used:

966 Chamber								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
ТҮРЕ		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	R&S	FSP 40	100034	05/27/2003	05/26/2004			
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2003	08/27/2004			
Loop Antenna	Messtec	FLA30	03/10086	03/06/2003	03/05/2004			
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2003	06/02/2004			
Bilog Antenna	SCHWAZBECK	VULB9160		06/03/2003	06/02/2004			
Pre-Amplifier	HP	8447D	2944A09469	07/19/2003	07/18/2004			
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+SUHNE R	SUCOFLEX 104PEA-10M	10m	10/9/2003	10/08/2004			
Low Loss Cable	HUBER+SUHNE R	SUCOFLEX 104PEA-3M	3m	10/9/2003	10/08/2004			
Site NSA	SGS	966 chamber	N/A	11/17/2003	11/16/2004			
Site NSA	SGS	10m Open-Site	N/A	10/02/2003	10/01/2004			

#### 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

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 :	Feb. 08,2004
Fundamental Frequency:	27.095 MHz	Test By:	Willis
Temperature :	25 °C	Pol:	Vertical
Humidity :	65 %		
Judgment : Passed by	<u>-7.19</u> dB at <u>144.46</u> MHz		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/AV/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	<u>Limit@3m</u> (dBuV/m)	Safe Margin (dB)	Note
27.095	V	Peak	77.20	-13.71	63.49	80.00	-16.51	F
54.190 81.285	V V	Peak Peak			$0.00 \\ 0.00$	40.00 40.00	-40.00 -40.00	H H
108.380	V	Peak			0.00	43.50	-43.50	Н
135.475	V	Peak			0.00	43.50	-43.50	Н
162.570	V	Peak			0.00	43.50	-43.50	Н
189.665	V	Peak			0.00	43.50	-43.50	Н
216.760	V	Peak			0.00	46.00	-46.00	Н
243.855	V	Peak			0.00	46.00	-46.00	Н
270.950	V	Peak			0.00	46.00	-46.00	Н
62.900 144.460 199.750 400.540 506.270 599.390	V V V V V V	Peak Peak Peak Peak Peak Peak	47.78 53.58 49.09 41.96 41.82 36.31	-15.08 -17.27 -15.08 -10.13 -8.29 -5.98	32.70 36.31 34.01 31.83 33.53 30.33	40.00 43.50 43.50 46.00 46.00 46.00	-7.30 -7.19 -9.49 -14.17 -12.47 -15.67	H H H H H

Remark :

- (1) Measuring frequencies from 25 MHz to the 1GHz  $\circ$
- (2) Radiated emissions measured in frequency range from 25 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Data 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) The IF bandwidth of SPA between 25MHz to 30MHz was 10KHz; 30MHz to 1GHz was 100KHz.



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#### 6.6 Measurement Result

Operation Mode:	Transmitting Mode	Test Date :	Feb. 08, 2004
Fundamental Frequency:	27.095 MHz	Test By:	Willis
Temperature :	25 °C	Pol:	Horizontal
Humidity :	65 %		
Judgment : Passed by	<u>-2.88</u> dB at <u>199.75</u> MHz		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/AV/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	<u>Limit@3m</u> (dBuV/m)	Safe Margin (dB)	Note
27.095	Η	Peak	65.87	-13.71	52.16	80.00	-27.84	F
54.190 81.285	H H	Peak Peak			0.00 0.00	40.00 40.00	-40.00 -40.00	H H
108.380	Н	Peak			0.00	43.50	-43.50	Н
135.475	Н	Peak			0.00	43.50	-43.50	Н
162.570	Н	Peak			0.00	43.50	-43.50	Н
189.665	Н	Peak			0.00	43.50	-43.50	Н
216.760	Н	Peak			0.00	46.00	-46.00	Н
243.855	Н	Peak			0.00	46.00	-46.00	Н
270.950	Н	Peak			0.00	46.00	-46.00	Н
66.860 199.750 230.790 366.590 400.540 800.180	Н Н Н Н Н	Peak QP Peak Peak Peak Peak	48.74 55.70 47.51 51.49 52.60 34.90	-16.60 -15.08 -13.85 -10.76 -10.13 -2.97	32.14 40.62 33.66 40.73 42.47 31.93	40.00 43.50 46.00 46.00 46.00 46.00	-7.86 -2.88 -12.34 -5.27 -3.53 -14.07	H H H H H

## Remark :

- (1) Measuring frequencies from 25 MHz to the 1GHz  $\circ$
- (2) Radiated emissions measured in frequency range from 25 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Data 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) The IF bandwidth of SPA between 25MHz to 30MHz was 10KHz; 30MHz to 1GHz was 100KHz.



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## 7. Occupied Bandwidth

#### 7.1 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation
- 3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10KHz, Span =100KHz.
- 4. Set SPA Max hold. Mark peak, -26dB.

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

Same as 4.2 Radiated Emission Measurement.

#### 7.3 Measurement Equipment Used:

Same as 4.2 Radiated Emission Measurement.

#### 7.4 Measurement Results

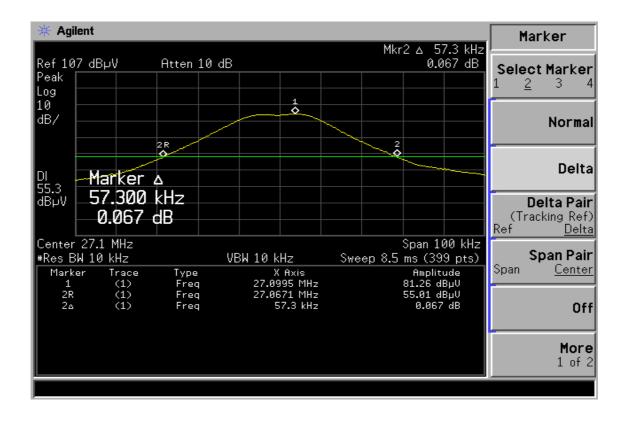
26dB bandwidth = 57.3 KHz Refer to attached data chart.



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## 26dB Band Width Test Data



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