# The Measurement of Conducted Spurious

## Emissions

#### CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

#### 1. LIMITS OF CONDUCTED SPURIOUS EMISSIONS EASUREMENT

Below 20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth, see Section 15.247(c)). Emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the limits specified in Section 15.209(a) (see Section 15.205(c)).

### 2. TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP	1093.4495.30	Dec. 19, 2003

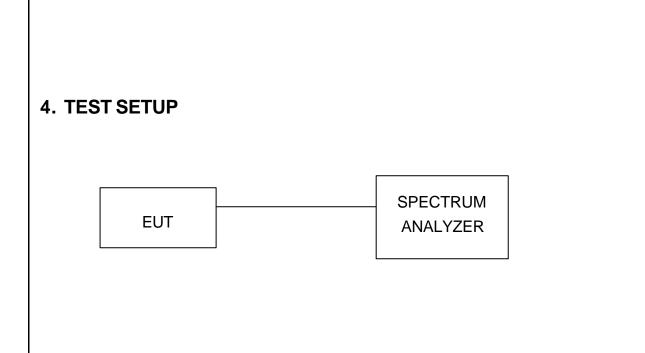
NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 3. TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 kHz bandwidth from band edge. The band edges was measured and recorded.

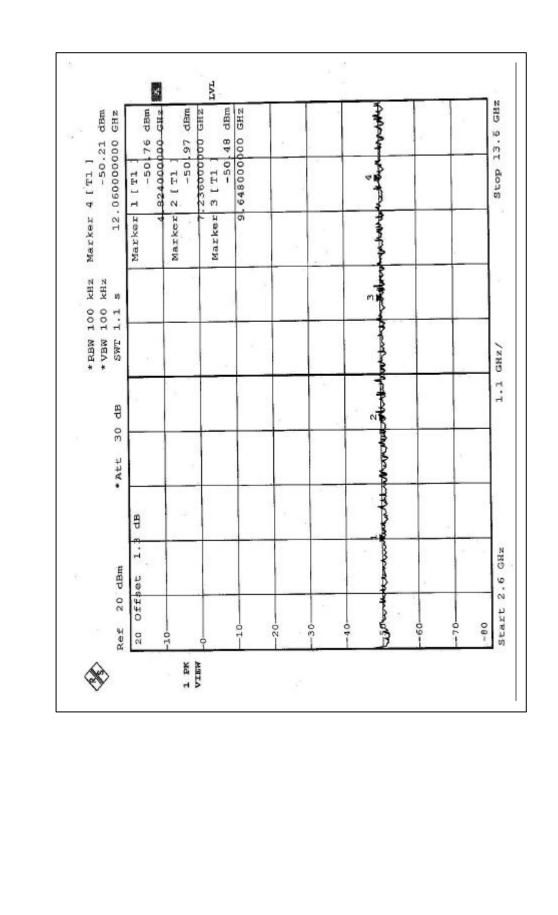


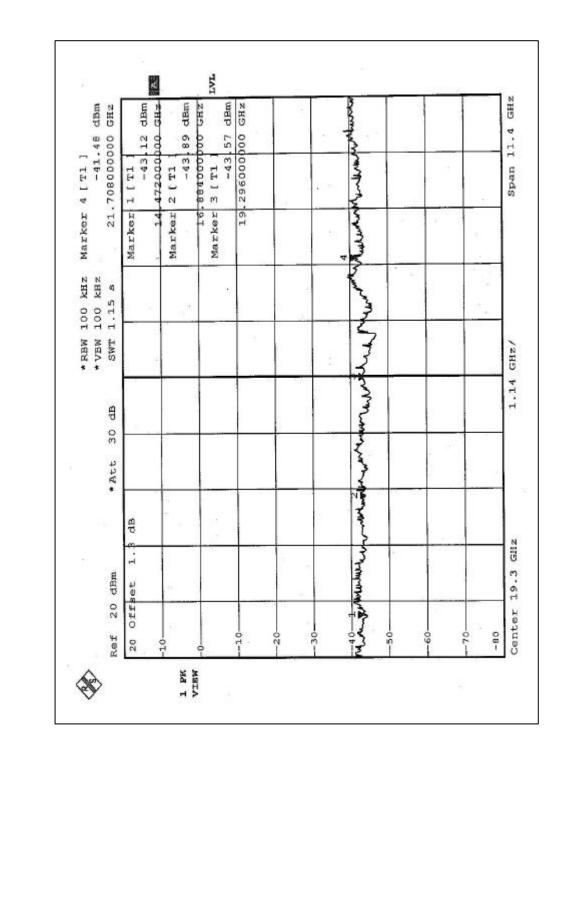
## 5. EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

#### **TEST RESULTS**

The spectrum plots are attached on the following 4 pages. It shows compliance with the requirement in part 15.247(C),.15.205 and 15.209.





• RBM 100 kHz     • RBM 100 kHz     • 51.27 dBm       FRaf 20 dBm     • Att 30 dB     swr 1.1 s     12.31000000 GHz       20 Officie 1.3 dB     • Att 30 dB     swr 1.1 s     12.31000000 GHz       10     10     Narker 1 [71]     -51 42 dBm       10     10     Narker 2 [71]     -51 42 dBm       10     10     Narker 2 [71]     -51 42 dBm       10     10     Narker 2 [71]     -51 42 dBm       11 H1     10     Narker 2 [71]     -51 42 dBm       10     10     Narker 3 [71]     -51 42 dBm       -10     10     Narker 3 [71]     -51 42 dBm       -10     0     Narker 3 [71]     -50 52 dBm       -10     10     Narker 3 [71]     -50 50 20 dBm       -10     -10     Narker 3 [71]     -50 50 20 dBm       -50     10     -50 50 20 dBm     -50 50 20 dBm       -10     -10     Narker 3 [71]     -50 50 20 dBm       -50     10     -50 50 20 dBm     -50 50 20 dBm       -10     -10     -50 20 20 20 dBm     <	dBm	140		-	<u>n - 65 -</u>		INT		415	2X - 785 I S 77					
* RBW 100 KHz     Marker       Tef 20 dBm     * Att 30 dB     SWT 1.1 s     12.3       20 Offset 1.3 dB     * Att 30 dB     Marker     12.3       -10     Marker     Marker     12.3       -10     Marker     Marker     13.3       -10     Marker     Marker     13.3       -10     Marker     Marker     13.3       -20     Marker     Marker     13.4       -10     Marker     Marker     13.4       -20     Marker     Marker     14.4       -20     Marker     14.4     Marker       -50     Marker     14.4     14.4											h				
* RBW 100 KHz     Marker       * VBW 100 KHz     * VBW 100 KHz       20 Offset 1.3 dB     * Att 30 dB     SWT 1.1 s     12.3       20 Offset 1.3 dB     * Att 30 dB     Marker     12.3       -0     Marker     Marker     9       -10     Marker     Marker     9       -20     Marker     Marker     9       -10     Marker     Marker     9       -20     Marker     Marker     9       -20     Marker     9     9       -20     Marker     9     9       -20     Marker     9     9       -20     Marker     9     9       -30     2     2     9       -30     2     2     9       -50     -50     -50     9       -70     -70     -70     9       -70     -70     -70     9	1.27	0000			0.25	0000	- 0	0000	-		-	_			
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*RBW 100 kHz Mark *VBW 100 kHz WT 1.1 s 20 Offet 1.3 dB *Att 30 dB SWT 1.1 s 20 Offet 1.3 dB Mark -10 Mark -2010 Mark -2010 Mark -2010 Mark -2010 Mark -2010 Mark -2010 Mark -2010 Mark -2010 Mark	H H	12.3		-		F		<u>6</u>			-	+			
Ref 20 dBm • Att 30 dB • VBW 100   20 Offset 1.3 dB • Att 30 dB SWT 1.1   20 Offset 1.3 dB • Att 30 dB SWT 1.1   10 • • • • • • • • • • • • • • • • • • •	Mark		Mark		Mark		Mark	8			hundho				
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