

EMC TEST RESULT

Applicant : MICROELECTRONICS TECHNOLOGY INC.
No. 1, Innovation Road II, Hsinchu Science Park, Hsinchu 300,
Taiwan, R.O.C.

Product : Universal Twin LNBF

Type/Model : AP82-T2E-F*

Date : Mar. 23, 2011

SUMMARY

The equipment was tested and found comply with the requirements according to the following technical requirement:

Interference radiation	according	EN 55013:2001/A1:2003/A2:2006
Interference power at antenna terminal	according	EN 55013:2001/A1:2003/A2:2006
Electrostatic discharge (ESD)	according	EN 55020:2007
Radiation resistance	according	*EN 55020:2007 (*: Deviation Note)

Note: The test procedure of radiation resistance deviates from EN 55020:2007. Using a signal generator to provide 10.7GHz signal to a horn antenna and transmitting. The EUT receives the RF signal comes from the horn antenna. Then the signal was outputted to a spectrum analyzer. Applying an interfering signal of 3 V/m by Jacky. Observing the waveform of RF signal shown on the spectrum analyzer by eyewitness.

Approved by:

S. S. Lion

EMC Dept. II of ELECTRONICS
TESTING CENTER, TAIWAN

Laboratory Introduction: Electronics Testing Center, Taiwan is recognized, filed and mutual recognition arrangement as following:

- ① ISO9002 : BSMI, TÜV Product Service
- ② ISO/IEC 17025 : BSMI, CNLA, DGT, NVLAP, CCIBLAC, UL, Compliance
- ③ EN45001 : TÜV Rheinland, NEMKO, FIMKO, SGS
- ④ Filing : FCC, Industry Canada, VCCI
- ⑤ MRA : Australia, Hong Kong, New Zealand, Singapore, USA, Japan, Korea, China, APLAC through CNLA

Radiated Interference Power Test

Test Date : Mar. 22, 2011

Test Specification	EN 55013:2001/A1:2003/A2:2006	
Climatic Condition	Ambient Temperature : <u>20</u> °C	Relative Humidity: <u>70</u> %RH
	Atmospheric Pressure : 990 mbar	
Operation Condition	Operating	

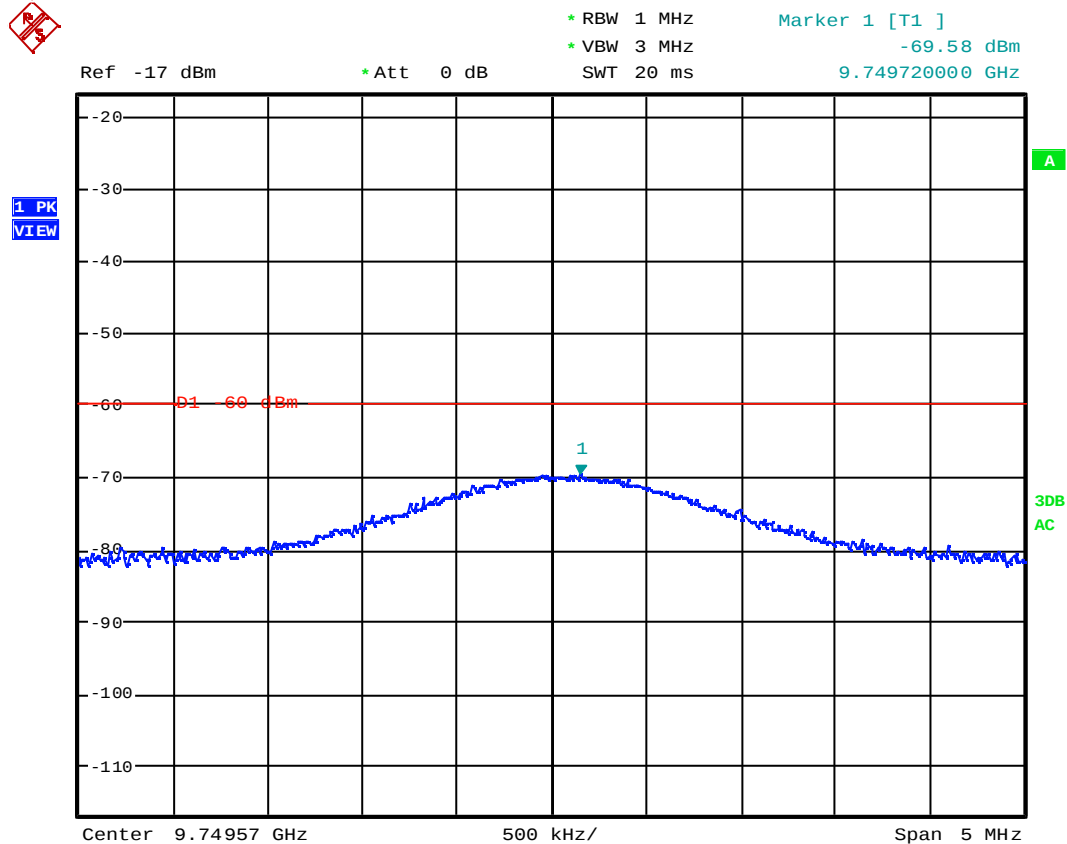
Frequency (MHz)	Polarization (H/V)	Result (dBpW)	Limit (dBpW)
1000.252	V	32.50	43
1500.040	V	40.46	43
2000.088	V	41.33	43
10600.140	V	50.20	57

Frequency (MHz)	Polarization (H/V)	Result (dBpW)	Limit (dBpW)
1000.220	V	35.9	43
1500.170	V	37.80	43
2000.316	V	40.90	43
9750.320	V	50.37	57

Interference Power of Local Oscillator of LNC's

Test Date : Mar. 22, 2011

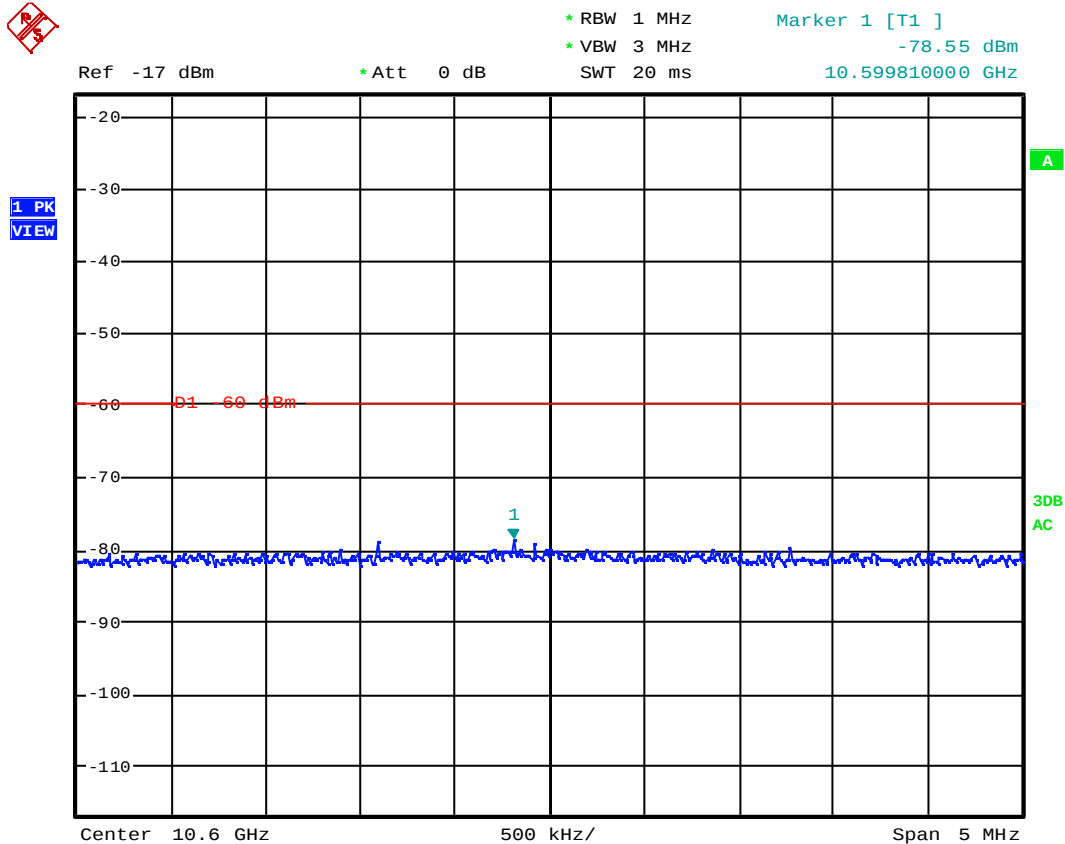
Test Specification	EN 55013:2001/A1:2003/A2:2006	
Climatic Condition	Ambient Temperature: <u>20</u> °C	Relative Humidity: <u>70</u> %RH
	Atmospheric Pressure : 990 mbar	
Operation Condition	Operating (P1)	



Interference Power of Local Oscillator of LNC's

Test Date : Mar. 22, 2011

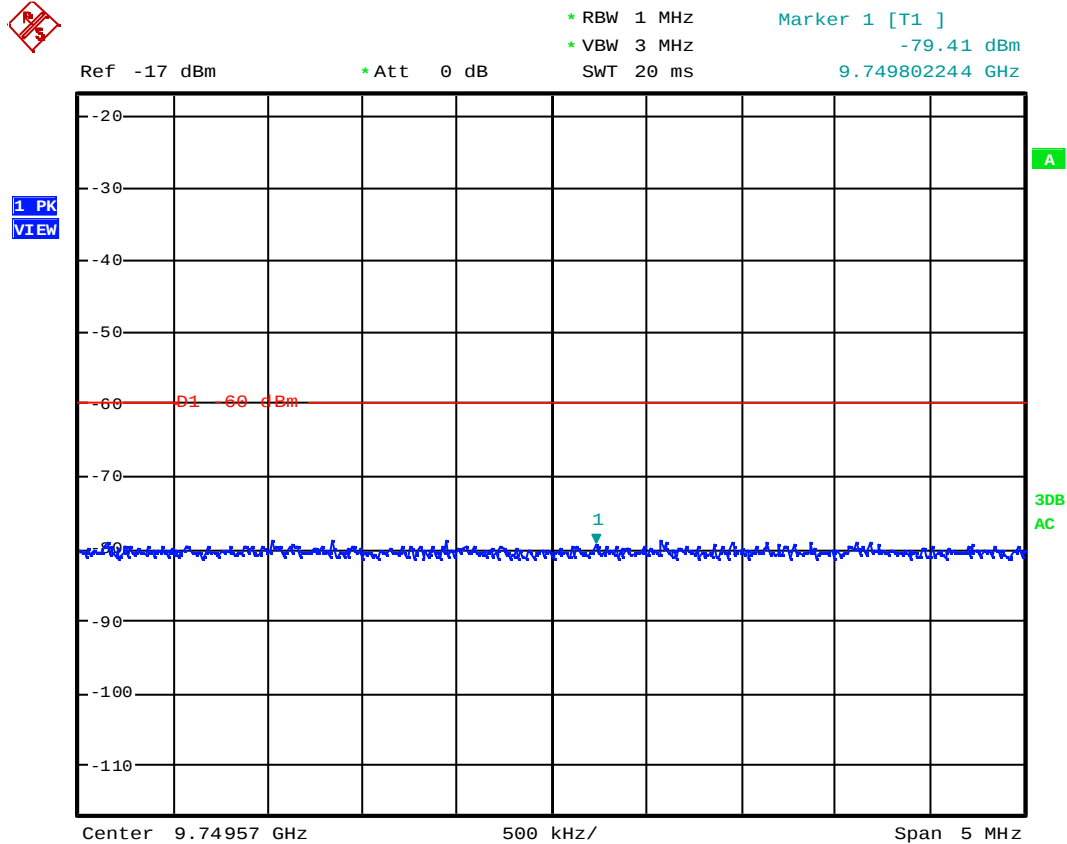
Test Specification	EN 55013:2001/A1:2003/A2:2006	
Climatic Condition	Ambient Temperature: <u>20</u> °C	Relative Humidity: <u>70</u> %RH
	Atmospheric Pressure : 990 mbar	
Operation Condition	Operating (P1)	



Interference Power of Local Oscillator of LNC's

Test Date : Mar. 22, 2011

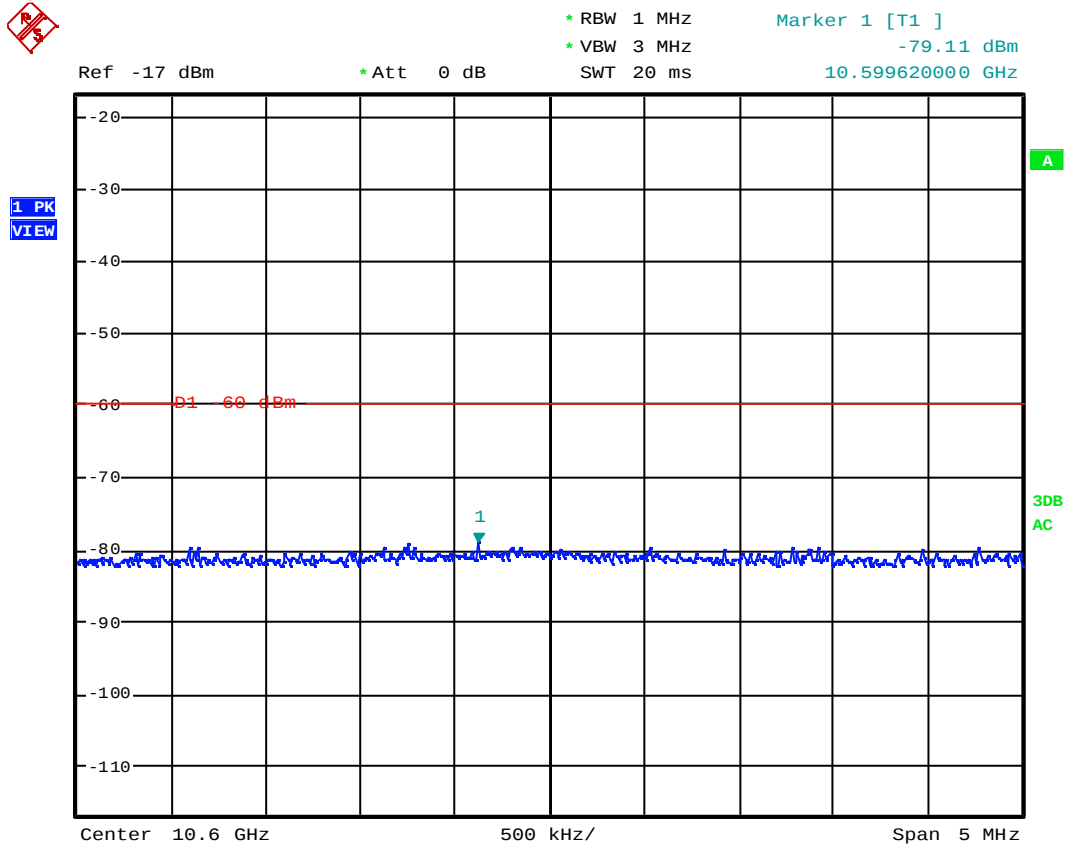
Test Specification	EN 55013:2001/A1:2003/A2:2006	
Climatic Condition	Ambient Temperature: <u>20</u> °C	Relative Humidity: <u>70</u> %RH
	Atmospheric Pressure : 990 mbar	
Operation Condition	Operating (P2)	



Interference Power of Local Oscillator of LNC's

Test Date : Mar. 22, 2011

Test Specification	EN 55013:2001/A1:2003/A2:2006	
Climatic Condition	Ambient Temperature : <u>20</u> °C	Relative Humidity: <u>70</u> %RH
	Atmospheric Pressure : 990 mbar	
Operation Condition	Operating (P2)	



Electrostatic Discharge Immunity Test

Test Date : Mar. 22, 2011

Test Specification	IEC61000-4-2:2008	
Climatic Condition	Ambient Temperature : <u>21</u> °C	Relative Humidity: <u>65</u> %RH
	Atmospheric Pressure : 990 mbar	
Operation Condition	Operating	

Energy-Storage Capacitor	: <u>150</u> pF				Contact Discharge Times		: <u>10</u> times/each condition					
Discharge Resistor	: <u>330</u> Ω				Air Discharge Times		: <u>10</u> times/each condition					
\ Discharge Mode	Contact Discharge						Air Discharge					
	\ESD Voltage											
	<u>2</u> kV		<u>4</u> kV		_____ kV		<u>2</u> kV		<u>4</u> kV		<u>8</u> kV	
\Points\Result\Polarity	+	-	+	-	+	-	+	-	+	-	+	-
P1	A	A	A	A	--	--	--	--	--	--	--	--
P2-P8	--	--	--	--	--	--	A	A	A	A	A	A

Note : “--“means the test could not be carrier out.

“ A ” means the EUT’ s function was correct normal performance during the test.

Radiation Resistance (S3)

Test Date : Mar. 22, 2011

Test Specification	EN 55020:2007	
Climatic Condition	Ambient Temperature : <u>20</u> °C	Relative Humidity: <u>70</u> %RH
	Atmospheric Pressure : 990 mbar	
Operation Condition	Operating	

