	GEN	IERAL DESCRIPT	ION OF EUT	
Model No.	BR-6425N; GR-425	N; BR-6424N		
Note:				
Models' differences	between each other only	the changes of model	name which do not affect the	EMI & RF performance.
EUT	Sample 1	Sample 2	Sample 3	Sample 4
Ant. Information	Dipole x 3 (Fixed)	Dipole x 2 (Fixed)	Dipole x 2 (Removable)	PIFA x 2 (Fixed)
#T#R	2T2R	2T2R	2T2R	2T2R
Note:				
These Models have	four different applies to	equipment with integral	antenna or dedicated anteni	าล.
(Please refer to the	EUT PHOTO. Photo No.	<u>: 1 (Sample 1); Photo N</u>	lo.: 7 (Sample 2); Photo No.:	<u>13 (Sample 3); Photo No.:</u>
<u>20 (Sample 4))</u>				
TX Ant. Connector	CON1/CON3	CON1/CON3	CON1/CON3	CON1/CON3
RX Ant. Connector	CON1/CON2	CON2/CON3	CON2/CON3	CON2/CON3
Ant. Gain	3 dBi	3 dBi	3 dBi	3.58dBi / 5dBi
Note:				
Samples' differences	s between each other on	ly the changes of RX A	nt. connector which do not a	ffect the TX Ant.
connector.				

(Please refer to the page 11/12 of Circuit Diagram. The Ant. Connector : CON1/CON2/CON3)

Test procedures according to the technical standards:

Standard Section	Test Item	Pr-scanning test				Final test (Worst Case)
Standard Section	lest tient	Sample 1	Sample 2	Sample 3	Sample 4	Sample 1
15.207	Conducted Emission	V	V			V
15.247(c)	Antenna conducted Spurious Emission	V	V			V
15.247(a)(2)	6dB Bandwidth	V	V			V
15.247(b)	Peak Output Power	V	V			V
15.247(c)	Radiated Spurious Emission	V	V	V	V	V
15.247(d)	Power Spectral Density	V	V			V
15.203	Antenna Requirement	V	V	V	V	V
1.1307						
1.1310	RE Expedito Compliance	V	V	V	V	V
2.1091	RF Exposure Compliance	v	v	v	v	v
2.1093						

All the above antenna designations were tested, and the **sample 1** was found to be the worst cases during the pr-scanning test. This sample of the worst case was used for final testing and collecting test data included in this report.

	FCC Part15, Subpart C	(For 802.11n)		
Standard Section	Test Item	Measure individual Transmitter Chain	by using the total sum power of each transmitter chain	Please refer to the # page of test report
15.207	Conducted Emission	*		
15.205	Restricted Band edge Measurement (provide test result up to 10 harmonics)	*		
15.247 (c)	Antenna conducted Spurious Emission	*		
15.247 (a)(2)	6dB Bandwidth	*		
	99% Bandwidth	*		
15.247 (b)	Peak Output Power	*	※ Note(1)	
15.247 (c)	Radiated Spurious Emission	*		
15.247 (d)	Power Spectral Density	*		
15.203	Antenna Requirement (Antenna Gain Consideration)		Note(2)	
1.1307 1.1310 2.1091 2.1093	RF Exposure Compliance	*	※ Note(1)	

	NOTE
1.	((dBm/Chain 1)/10^Log) +((dBm/Chain 2)/10^log)+((dBm/Chain N)/10^log)=Combined peak output
	power in mW.
	For example: 2x3 MIMO: Chain 1 TX peak output power is 16 dBm; Chain 2 TX peak output
	power is 17 dBm. The combined peak output power is (16/10)^log= 39.81mW +
	(17/10)^log=50 mW. Combined peak out power is 39.81+50.12=89.93 mW(19.53 dBm)
2.	Directional gain = gain of antenna element + 10 log(# of TX antenna elements).
	For example: if EUT is a 2x3 MIMO with each antenna gain=3dBii, then the directional gain is
	= 3 +10log(2)=3+3=6 dBi (no power reduction).
	If (EUT is a 3x3 MIMO with each antenna gain =3dBi, then the directional gain is =
	3+10log(3)=3+4.77=7.77dBi (output power needs to reduce by 1.77dBi, so the highest conducted output
	power allowed is 28.23dBm.