Test Result of RF Exposure Evaluation

. Product: High Power Wireless-N 600mW Gigabit Dual Band Repeater

. Test Item: RF Exposure Evaluation Data

. Test site: OATS2-SD

Antenna Gain

Frequency Range: 2412MHz~2462MHz, 5725MHz~5850MHz

802.11b/g/n:

ANT R, ANT L

Antenna Type: Dipole Antenna

Antenna Gain: 2 dBi

802.11a, an:

ANT R, ANT L

Antenna Type: Dipole Antenna

Antenna Gain: 4 dBi

EUT Operation condition

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

Output Power into Antenna & RF Exposure Evaluation Distance

Test Date: Jun. 07, 2012 Temperature: 25° C Atmospheric pressure: 1020 hPa Humidity: 65%

ANT R

Modulation Type	Channel	Frequency	Output Power to	Power Density (S)
Modulation Type	Channel	(MHz)	Antenna (dBm)	(mW/Cm2)
	01	2412	20.42	0.035
802.11b (11Mbps)	06	2437	20.40	0.035
	11	2462	19.20	0.026
	01	2412	24.50	0.089
802.11g (54Mbps)	06	2437	25.76	0.119
	11	2462	25.41	0.110
000 44 11700	01	2412	20.45	0.035
802.11n HT20	06	2437	25.60	0.114
(130Mbps)	11	2462	23.36	0.068
000 44 11740	03	2422	18.05	0.020
802.11n HT40	06	2437	25.60	0.114
(270Mbps)	09	2452	22.33	0.054

ANT L

Modulation Type	Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/Cm2)
	01	2412	20.12	0.032
802.11b (11Mbps)	06	2437	20.49	0.035
	11	2462	19.35	0.027
	01	2412	24.88	0.097
802.11g (54Mbps)	06	2437	25.80	0.120
	11	2462	25.35	0.108
20244	01	2412	22.84	0.061
802.11n HT20	06	2437	25.59	0.114
(130Mbps)	11	2462	25.25	0.106
	03	2422	20.42	0.035
802.11n HT40	06	2437	25.86	0.122
(270Mbps)	09	2452	24.61	0.091

ANT R + ANT L

Modulation Type	Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/Cm2)
	01	2412		
802.11b	06	2437		
(11Mbps)	11	2462		
	01	2412		
802.11g	06	2437		
(54Mbps)	11	2462		
200 // 11=00	01	2412	24.82	0.096
802.11n HT20	06	2437	24.78	0.095
(130Mbps)	11	2462	24.62	0.091
222 // 1/= /2	03	2422	22.41	0.055
802.11n HT40	06	2437	24.64	0.092
(270Mbps)	09	2452	24.82	0.096

Test Date: Jun. 19, 2012 Temperature: 25° C Atmospheric pressure: 1020 hPa Humidity: 65%

802.11a, ANT R

Frequency Range	Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Power Density(S) (mW/Cm2)
	36	5180	7.57	0.003
5.15 ~ 5.25 GHz (54Mbps)	44	5220	7.95	0.003
(o mapo)	48	5240	8.06	0.003
	149	5745	23.43	0.110
5.725 ~ 5.825 GHz (54Mbps)	157	5785	23.87	0.122
(55)	165	5825	23.32	0.107

802.11an HT20 ANT R

002.11411112071111	002.1181111120 ANT IX					
Frequency Range	Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Power Density(S) (mW/Cm2)		
	36	5180	7.54	0.003		
5.15 ~ 5.25 GHz (130Mbps)	44	5220	7.88	0.003		
	48	5240	8.11	0.003		
	149	5745	23.53	0.113		
5.725 ~ 5.825 GHz (130Mbps)	157	5785	23.70	0.117		
	165	5825	23.25	0.106		

802.11an HT40 ANT R

002.11aii111140 Aivi1	•	Frequency	Output Power to	Power Density(S)
Frequency Range	Channel	(MHz)	Antenna (dBm)	(mW/Cm2)
	38	5190	9.09	0.004
5.15 ~ 5.25 GHz (270Mbps)	42	5210	8.85	0.004
(L' olvispo)	46	5230	8.81	0.004
	151	5755	23.29	0.107
5.725 ~ 5.825 GHz (270Mbps)	155	5775	23.65	0.116
(27 divibps)	159	5795	23.32	0.107

802.11a, ANT L

Frequency Range	Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Power Density(S) (mW/Cm2)
5.15 ~ 5.25 GHz (54Mbps)	36	5180	7.56	0.003
	44	5220	7.57	0.003
	48	5240	7.64	0.003
	149	5745	23.58	0.114
5.725 ~ 5.825 GHz (54Mbps)	157	5785	23.89	0.122
(6 111126)	165	5825	23.74	0.118

802.11an HT20 ANT L

Frequency Range	Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Power Density(S) (mW/Cm2)
	36	5180	7.09	0.003
5.15 ~ 5.25 GHz (130Mbps)	44	5220	6.75	0.002
	48	5240	6.82	0.002
	149	5745	23.61	0.115
5.725 ~ 5.825 GHz (130Mbps)	157	5785	23.82	0.120
	165	5825	23.78	0.119

802.11an HT40 ANT L

Frequency Range	Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Power Density(S) (mW/Cm2)
5.15 ~ 5.25 GHz (270Mbps)	38	5190	8.15	0.003
	42	5210	7.99	0.003
	46	5230	7.97	0.003
	151	5755	23.36	0.108
5.725 ~ 5.825 GHz (270Mbps)	155	5775	23.71	0.117
	159	5795	23.50	0.112

802.11an HT20 ANT R+L

Frequency Range	Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Power Density(S) (mW/Cm2)
	36	5180	10.33	0.011
5.15 ~ 5.25 GHz (270Mbps)	44	5220	10.36	0.011
(2. 3.1.353)	48	5240	10.52	0.011
	149	5745	26.54	0.451
5.725 ~ 5.825 GHz (270Mbps)	157	5785	26.71	0.469
0.12 (2.101112ps)	165	5825	26.26	0.422

802.11an HT40 ANT R+L

Frequency Range	Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Power Density(S) (mW/Cm2)
	38	5190	11.66	0.015
5.15 ~ 5.25 GHz (270Mbps)	42	5210	11.45	0.014
(27 olviops)	46	5230	11.42	0.014
	151	5755	26.30	0.426
5.725 ~ 5.825 GHz (270Mbps)	155	5775	26.66	0.463
(2. 6.11.565)	159	5795	26.33	0.429

The MPE is calculated as 0.469 mW / cm² < limit 1 mW / cm². So, RF exposure limit warning or SAR test are not required.