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9. MPE ESTIMATION

9.1.Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/cm ²)	Averaging time(minutes)		
300MHz1.5GHz	F/1500	30		
1.5GHz100GHz	1.0	30		

Note: F= Frequency in MHz

9.2. Estimation Result



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U-NII 5180-5240MHz Band			
EUT:Complex Set-Top Box			
M/N:P2571			
Test date: 2014-12-20	Pressure: 101.2±1.0 kpa	Humidity: 49.3±3.0%	
Tested by: kobe_huang	Test site: RF site	Temperature:22.9±0.6 °C	

Correlate	ed signal					
Test Mode	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	5180	14.37	27.35	6.93	4.93	0.0269
	5200	13.87	24.38	6.93	4.93	0.0239
	5240	14.42	27.67	6.93	4.93	0.0272
11n HT20	5180	12.32	17.06	9.53	8.97	0.0305
	5200	12.27	16.87	9.53	8.97	0.0301
П120	5240	12.54	17.95	9.53	8.97	0.0321
11n	5190	15.20	33.11	9.53	8.97	0.0591
HT40	5230	15.81	38.11	9.53	8.97	0.0681
1.1	5180	14.93	31.12	9.53	8.97	0.0556
11ac VHT20	5200	14.68	29.38	9.53	8.97	0.0525
VII 120	5240	14.35	27.23	9.53	8.97	0.0486
11ac	5190	15.94	39.26	9.53	8.97	0.0701
VHT40	5230	15.96	39.45	9.53	8.97	0.0705
11ac VHT80	5210	15.92	39.08	9.53	8.97	0.0698
Uncorrela	ated signal			-		'
	5180	14.37	27.35	6.93	4.93	0.0269
11a	5200	13.87	24.38	6.93	4.93	0.0239
	5240	14.42	27.67	6.93	4.93	0.0272
	5180	12.32	17.06	6.53	4.50	0.0153
11n HT20	5200	12.27	16.87	6.53	4.50	0.0151
П120	5240	12.54	17.95	6.53	4.50	0.0161
11n	5190	15.20	33.11	6.53	4.50	0.0296
HT40	5230	15.81	38.11	6.53	4.50	0.0341
1.1	5180	14.93	31.12	6.53	4.50	0.0279
11ac	5200	14.68	29.38	6.53	4.50	0.0263
VHT20	5240	14.35	27.23	6.53	4.50	0.0244
11ac	5190	15.94	39.26	6.53	4.50	0.0352
VHT40	5230	15.96	39.45	6.53	4.50	0.0353
11ac VHT80	5210	15.92	39.08	6.53	4.50	0.0350

$$MPE = \frac{PG}{4\pi R^2} \qquad (R=20cm)$$



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U-NII 5745-5825MHz Band

EUT: Complex Set-Top Box				
M/N: P2571				
Test date: 2014-12-30	Pressure: 101.5±1.0 kpa	Humidity: 50.9±3.0%		
Tested by: Kobe_Huang	Test site: RF site	Temperature:22.1±0.6 °C		

Correlated signal						
Test Mode	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	5745	13.85	24.27	6.99	5.00	0.0242
	5785	18.29	67.45	6.99	5.00	0.0671
	5825	15.39	34.59	6.99	5.00	0.0344
11.	5745	14.67	29.31	9.59	9.10	0.0531
11n HT20	5785	20.44	110.66	9.59	9.10	0.2004
11120	5825	18.07	64.12	9.59	9.10	0.1161
11n	5755	11.81	15.17	9.59	9.10	0.0275
HT40	5795	16.93	49.32	9.59	9.10	0.0893
11ac	5745	13.54	22.59	9.59	9.10	0.0409
VHT20	5785	20.89	122.74	9.59	9.10	0.2223
V11120	5825	17.70	58.88	9.59	9.10	0.1066
11ac	5755	11.78	15.07	9.59	9.10	0.0273
VHT40	5795	16.90	48.98	9.59	9.10	0.0887
11ac VHT80	5775	13.17	20.75	9.59	9.10	0.0376
Uncorrela	ated signal					
	5745	13.85	24.27	6.99	5.00	0.0242
11a	5785	18.29	67.45	6.99	5.00	0.0671
	5825	15.39	34.59	6.99	5.00	0.0344
1.1	5745	14.67	29.31	6.59	4.56	0.0266
11n HT20	5785	20.44	110.66	6.59	4.56	0.1005
11120	5825	18.07	64.12	6.59	4.56	0.0582
11n	5755	11.81	15.17	6.59	4.56	0.0138
HT40	5795	16.93	49.32	6.59	4.56	0.0448
11	5745	13.54	22.59	6.59	4.56	0.0205
11ac VHT20	5785	20.89	122.74	6.59	4.56	0.1114
	5825	17.70	58.88	6.59	4.56	0.0535
11ac	5755	11.78	15.07	6.59	4.56	0.0137
VHT40	5795	16.90	48.98	6.59	4.56	0.0445
11ac VHT80	5775	13.17	20.75	6.59	4.56	0.0188

$$MPE = \frac{PG}{4\pi R^2} \quad (R=20cm)$$