

Registration number: W6M20706-8198-C-1
 FCC ID: RXZ-WP81RL

Site : site #1
 Condition : FCC_15.247
 Company : W6M20706-8198
 EUT Model: WP81RL
 Execute Program : 802.11n (20MHz) CH1 Tx Mode
 Note :

Polarization: *Horizontal*
 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	401.0020	6.93	peak	20.87	27.80	46.00	101	187	-18.20	

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 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	610.0200	0.13	peak	25.36	25.49	46.00	298	267	-20.51	

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 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2368.738	53.16	peak	-5.26	47.90	74.00	135	157	-26.10	
	3214.429	44.76	peak	-2.20	42.56	74.00	142	70	-31.44	

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 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2336.673	56.32	peak	-5.42	50.90	74.00	139	156	-23.10	
	3218.437	47.93	peak	-2.17	45.76	74.00	117	70	-28.24	

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 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	6428.858	51.87	peak	4.00	55.87	74.00	123	70	-18.13	

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 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	6436.874	53.38	peak	4.06	57.44	74.00	127	70	-16.56	

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 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	111.1623	1.85	peak	16.95	18.80	43.50	305	260	-24.70	
*	257.7955	4.56	peak	22.80	27.36	46.00	320	300	-18.64	

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 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	127.9359	2.86	peak	18.10	20.96	43.50	115	325	-22.54	
*	278.3566	0.83	peak	24.46	25.29	46.00	150	140	-20.71	

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*	401.0020	6.95	peak	20.87	27.82	46.00	105	190	-18.18	

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Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	612.8256	0.83	peak	25.46	26.29	46.00	300	270	-19.71	

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Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2368.738	52.65	peak	-5.26	47.39	74.00	140	160	-26.61	
	3250.501	44.54	peak	-1.95	42.59	74.00	145	70	-31.41	

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*	2352.705	55.04	peak	-5.34	49.70	74.00	145	160	-24.30	
	3250.501	48.00	peak	-1.95	46.05	74.00	120	70	-27.95	

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*	6501.002	50.78	peak	4.50	55.28	74.00	125	70	-18.72	

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 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	6501.002	48.75	peak	4.50	53.25	74.00	130	70	-20.75	

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 Execute Program : 802.11n (20MHz) CH11 Tx Mode
 Note :

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 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	129.5591	1.10	peak	18.18	19.28	43.50	307	258	-24.22	
*	270.7816	2.63	peak	23.82	26.45	46.00	319	300	-19.55	

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 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	110.6212	6.32	peak	16.90	23.22	43.50	113	324	-20.28	
*	265.9118	2.73	peak	23.40	26.13	46.00	155	136	-19.87	

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Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	401.0020	6.39	peak	20.87	27.26	46.00	103	194	-18.74	

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Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	612.8256	2.72	peak	25.46	28.18	46.00	301	272	-17.82	

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*	2292.585	52.02	peak	-5.62	46.40	74.00	135	156	-27.60	
	3282.565	43.80	peak	-1.72	42.08	74.00	147	70	-31.92	

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 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2340.681	55.49	peak	-5.40	50.09	74.00	142	163	-23.91	
	3282.565	45.16	peak	-1.72	43.44	74.00	124	70	-30.56	

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Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	6565.130	49.41	peak	4.70	54.11	74.00	128	70	-19.89	

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 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	6565.130	49.62	peak	4.70	54.32	74.00	125	70	-19.68	

Mode D

Temperature : 26°C Pressure : 921 hPa Rel. humidity : 60 % Date : 2007/7/3

Site : site #1
 Condition : FCC_15.247
 Company : W6M20706-8198
 EUT Model: WP81RL
 Execute Program : 802.11n (40MHz) CH1 Tx Mode
 Note :

Polarization: *Horizontal*
 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	117.1141	1.99	peak	17.45	19.44	43.50	304	261	-24.06	
*	243.7274	6.38	peak	22.17	28.55	46.00	320	297	-17.45	

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 EUT Model: WP81RL
 Execute Program : 802.11n (40MHz) CH1 Tx Mode
 Note :

Polarization: *Vertical*
 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	119.2785	4.50	peak	17.64	22.14	43.50	115	324	-21.36	
*	281.6031	1.36	peak	24.73	26.09	46.00	154	144	-19.91	

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 Note :

Polarization: *Horizontal*
 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	401.0020	6.78	peak	20.87	27.65	46.00	100	190	-18.35	

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 Execute Program : 802.11n (40MHz) CH1 Tx Mode
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 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	611.4228	0.25	peak	25.41	25.66	46.00	303	274	-20.34	

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 Note :

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 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2340.681	52.14	peak	-5.40	46.74	74.00	140	164	-27.26	
	3230.461	44.39	peak	-2.09	42.30	74.00	140	70	-31.70	

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Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2372.745	56.36	peak	-5.24	51.12	74.00	140	163	-22.88	
	3230.461	48.09	peak	-2.09	46.00	74.00	123	70	-28.00	

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Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	6460.922	52.19	peak	4.23	56.42	74.00	122	70	-17.58	

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 Execute Program : 802.11n (40MHz) CH1 Tx Mode
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 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	6460.922	50.39	peak	4.23	54.62	74.00	123	70	-19.38	

Site : site #1
 Condition : FCC_15.247
 Company : W6M20706-8198
 EUT Model: WP81RL
 Execute Program : 802.11n (40MHz) CH4 Tx Mode
 Note :

Polarization: *Horizontal*
 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	125.2305	0.89	peak	17.96	18.85	43.50	305	255	-24.65	
*	257.7955	5.63	peak	22.80	28.43	46.00	315	295	-17.57	

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 Note :

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 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	109.5391	5.47	peak	16.81	22.28	43.50	115	325	-21.22	
*	279.4388	0.80	peak	24.55	25.35	46.00	145	145	-20.65	

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Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	401.0020	7.62	peak	20.87	28.49	46.00	105	185	-17.51	

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Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	997.1943	2.01	peak	29.76	31.77	54.00	300	270	-22.23	

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Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2308.617	52.22	peak	-5.56	46.66	74.00	135	160	-27.34	
	3250.501	44.76	peak	-1.95	42.81	74.00	145	70	-31.19	

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*	2340.681	56.15	peak	-5.40	50.75	74.00	145	160	-23.25	
	3250.501	47.12	peak	-1.95	45.17	74.00	120	70	-28.83	

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*	6501.002	50.12	peak	4.50	54.62	74.00	125	70	-19.38	

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Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	6501.002	48.89	peak	4.50	53.39	74.00	135	70	-20.61	

Site : site #1
 Condition : FCC_15.247
 Company : W6M20706-8198
 EUT Model: WP81RL
 Execute Program : 802.11n (40MHz) CH7 Tx Mode
 Note :
 Polarization: *Horizontal*
 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	130.6413	1.29	peak	18.23	19.52	43.50	302	262	-23.98	
*	270.2404	6.43	peak	23.77	30.20	46.00	323	303	-15.80	

Site : site #1
 Condition : FCC_15.247
 Company : W6M20706-8198
 EUT Model: WP81RL
 Execute Program : 802.11n (40MHz) CH7 Tx Mode
 Note :
 Polarization: *Vertical*
 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	110.6212	5.75	peak	16.90	22.65	43.50	113	323	-20.85	
	280.5210	-0.08	peak	24.64	24.56	46.00	151	141	-21.44	

Registration number: W6M20706-8198-C-1
 FCC ID: RXZ-WP81RL

Site : site #1
 Condition : FCC_15.247
 Company : W6M20706-8198
 EUT Model: WP81RL
 Execute Program : 802.11n (40MHz) CH7 Tx Mode
 Note :

Polarization: *Horizontal*
 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	401.0020	6.79	peak	20.87	27.66	46.00	104	194	-18.34	

Site : site #1
 Condition : FCC_15.247
 Company : W6M20706-8198
 EUT Model: WP81RL
 Execute Program : 802.11n (40MHz) CH7 Tx Mode
 Note :

Polarization: *Vertical*
 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	992.9859	1.42	peak	29.69	31.11	54.00	301	271	-22.89	

Site : site #1
 Condition : FCC_15.247
 Company : W6M20706-8198
 EUT Model: WP81RL
 Execute Program : 802.11n (40MHz) CH7 Tx Mode
 Note :

Polarization: *Horizontal*
 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2308.617	52.04	peak	-5.56	46.48	74.00	138	158	-27.52	
	3270.541	44.37	peak	-1.81	42.56	74.00	145	70	-31.44	

Site : site #1
 Condition : FCC_15.247
 Company : W6M20706-8198
 EUT Model: WP81RL
 Execute Program : 802.11n (40MHz) CH7 Tx Mode
 Note :

Polarization: *Vertical*
 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2368.738	55.66	peak	-5.26	50.40	74.00	140	160	-23.60	
	3270.541	45.31	peak	-1.81	43.50	74.00	117	70	-30.50	

Registration number: W6M20706-8198-C-1
 FCC ID: RXZ-WP81RL

Site : site #1
 Condition : FCC_15.247
 Company : W6M20706-8198
 EUT Model: WP81RL
 Execute Program : 802.11n (40MHz) CH7 Tx Mode
 Note :

Polarization: *Horizontal*
 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	6541.082	50.78	peak	4.62	55.40	74.00	126	70	-18.60	

Site : site #1
 Condition : FCC_15.247
 Company : W6M20706-8198
 EUT Model: WP81RL
 Execute Program : 802.11n (40MHz) CH7 Tx Mode
 Note :

Polarization: *Vertical*
 Power : AC 110V/60Hz
 Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	6541.082	49.80	peak	4.62	54.42	74.00	133	70	-19.58	

- Note**
1. Correction Factor = Antenna factor + Cable loss - Preamplifier
 2. The formula of measured value as: Test Result = Reading + Correction Factor
 3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
 4. All not in the table noted test results are more than 20 dB below the relevant limits.

TEST RESULT (Transmitter): The unit DOES meet the FCC requirements.

Test equipment used: ETSTW-RE003 ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 028
 ETSTW-RE029 ETSTW-RE 030 ETSTW-RE 042 ETSTW-RE 043
 ETSTW-RE 044

Explanation: see attached diagrams in Appendix.

Registration number: W6M20706-8198-C-1
 FCC ID: RXZ-WP81RL

3.6 Radiated Emission on the band edge

According to FCC rules part 15 subpart C §15.247(c) in any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required.

In addition radiated emission which fall in the restricted bands, as defined in section 15.205(a), must also with the radiated emission limits.

Mode A

Test conditions		Attenuation at or outside band-edges	
		Lower Band-edge	Upper Band-edge
$T_{nom} = 23^{\circ}C$	$V_{nom} = 3.3 V$	40.04 dB	49.38 dB

Mode B

Test conditions		Attenuation at or outside band-edges	
		Lower Band-edge	Upper Band-edge
$T_{nom} = 23^{\circ}C$	$V_{nom} = 3.3 V$	45.53 dB	48.14 dB

Mode C

Test conditions		Attenuation at or outside band-edges	
		Lower Band-edge	Upper Band-edge
$T_{nom} = 23^{\circ}C$	$V_{nom} = 3.3 V$	33.51 dB	49.58 dB

Mode D

Test conditions		Attenuation at or outside band-edges	
		Lower Band-edge	Upper Band-edge
$T_{nom} = 23^{\circ}C$	$V_{nom} = 3.3 V$	31.08 dB	43.68 dB

Limit:

Frequency Range / MHz	Limit
902 –928	- 20 dB
2400 – 2483.5	
5725 - 5850	

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 028
 ETSTW-RE 030 ETSTW-RE 043 ETSTW-RE 044

Explanation: Please see attached diagram as appendix.

Registration number: W6M20706-8198-C-1
 FCC ID: RXZ-WP81RL

3.7 Minimum 6 dB Bandwidth

The analyzer ResBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK reading was taken, two markers were set 6 dB below the maximum level on the right and the left side of the emission. The 6 dB bandwidth is the frequency difference between the two markers.

Mode A

Test conditions		6 dB Bandwidth		
		Channel 1	Channel 6	Channel 11
$T_{nom} = 23^{\circ}C$	$V_{nom} = 3.3 V$	10.512820513MHz	10.961538462MHz	10.512820513 MHz

Mode B

Test conditions		6 dB Bandwidth		
		Channel 1	Channel 6	Channel 11
$T_{nom} = 23^{\circ}C$	$V_{nom} = 3.3 V$	10.737179487 MHz	16.602564103MHz	16.666666667MHz

Mode C

Test conditions		6 dB Bandwidth		
		Channel 1	Channel 6	Channel 11
$T_{nom} = 23^{\circ}C$	$V_{nom} = 3.3 V$	17.788461538 MHz	17.820512821 MHz	17.788461538 MHz

Mode D

Test conditions		6 dB Bandwidth		
		Channel 1	Channel 4	Channel 7
$T_{nom} = 23^{\circ}C$	$V_{nom} = 3.3 V$	36.538461538 MHz	36.602564103 MHz	36.538461538 MHz

Limits:

Frequency Range MHz	Limits
902-928	min 500 kHz
2400-2483.5	min 500 kHz
5725-5850	min 500 kHz

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 055

Explanation: see attached diagrams in Appendix.

Registration number: W6M20706-8198-C-1
 FCC ID: RXZ-WP81RL

3.8 Peak Power Spectral Density

Peak Power Spectral density is a measured at low, middle and high channel.
 The peak output power is measured with a measurement bandwidth of 10 MHz and displayed on diagram together with Peak Power Spectral Density result which was measured with a bandwidth of 3 kHz, appreciate frequency span and sweep time.

Mode A

Test conditions		Peak Power Spectral Density (3 kHz)		
		Channel 1 [dBm]	Channel 6 [dBm]	Channel 11 [dBm]
$T_{nom} = 23^{\circ}C$	$V_{nom} = 3.3 V$	-16.24	-15.76	-17.12

Mode B

Test conditions		Peak Power Spectral Density (3 kHz)		
		Channel 1 [dBm]	Channel 6 [dBm]	Channel 11 [dBm]
$T_{nom} = 23^{\circ}C$	$V_{nom} = 3.3 V$	-18.48	-24.03	-24.78

Mode C

Test conditions		Peak Power Spectral Density (3 kHz)		
		Channel 1 [dBm]	Channel 6 [dBm]	Channel 11 [dBm]
$T_{nom} = 23^{\circ}C$	$V_{nom} = 3.3 V$	-18.15	-18.20	-18.11

Mode D

Test conditions		Peak Power Spectral Density (3 kHz)		
		Channel 1 [dBm]	Channel 4 [dBm]	Channel 7 [dBm]
$T_{nom} = 23^{\circ}C$	$V_{nom} = 3.3 V$	-19.44	-20.40	-21.54

Limits:

Frequency Range MHz	dBm
902-928	8
2400-2483,5	8
5725-5850	8

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 055

Explanation: see attached diagrams in Appendix.

Registration number: W6M20706-8198-C-1
 FCC ID: RXZ-WP81RL

Site : site #1
 Condition : CISPR22 RE-Class B 10M
 Company : W6M20706-8198
 EUT Model: WP81RL
 Execute Program :
 Note :

Polarization: *Vertical*
 Power : AC 110V/60Hz
 Distance: 10m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	632.4648	12.58	peak	15.48	28.06	37.00	342	245	-8.94	
*	696.9940	13.90	peak	16.71	30.61	37.00	356	267	-6.39	
	978.9578	8.76	peak	18.02	26.78	37.00	387	277	-10.22	

- Note
1. Correction Factor = Antenna factor + Cable loss - Preamplifier
 2. The formula of measured value as: Test Result = Reading + Correction Factor
 3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
 4. All not in the table noted test results are more than 20 dB below the relevant limits.

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Field Strength (dBmicrovolts/meter)
30 – 88	100	40.0
88 – 216	150	43.5
216 – 960	200	46.0
Above 960	500	54.0

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 028
 ETSTW-RE 029 ETSTW-RE 030 ETSTW-RE 042 ETSTW-RE 043
 ETSTW-RE 044

Explanation: see attached diagrams in Appendix.

Registration number: W6M20706-8198-C-1
 FCC ID: RXZ-WP81RL

3.10 Power Line Conducted Emission

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

Frequency	Level (dB μ V)	
	quasi-peak	average
150 kHz	lower limit line	Lower limit line

Temperature : 26°C Pressure : 921 hPa Rel. humidity : 60 % Date : 2007/7/4

Site : site #1

Condition : CISPR22 Class B Conduction(QP)

Phase: N

Company : W6M20706-8198

Power : AC 110V/60Hz

EUT Model: WP81RL

Execute Program :

Note :

Mk.	Frequency (MHz)	Reading (dB μ V/m)	Detector	Corrected factor(dB)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Comment
	0.1512	36.83	QP	10.10	46.93	65.93	-19.00	
*	0.1512	31.85	AVG	10.10	41.95	55.93	-13.98	
	0.2391	22.94	QP	10.10	33.04	62.13	-29.09	
	0.2391	17.85	AVG	10.10	27.95	52.13	-24.18	
	0.8300	22.56	QP	10.10	32.66	56.00	-23.34	
	0.8300	17.55	AVG	10.10	27.65	46.00	-18.35	
	3.0950	15.09	QP	10.10	25.19	56.00	-30.81	
	3.0950	10.11	AVG	10.10	20.21	46.00	-25.79	
	7.0278	13.16	QP	10.10	23.26	60.00	-36.74	
	7.0278	8.25	AVG	10.10	18.35	50.00	-31.65	
	13.6944	22.23	QP	10.10	32.33	60.00	-27.67	
	13.6944	17.25	AVG	10.10	27.35	50.00	-22.65	

Registration number: W6M20706-8198-C-1
 FCC ID: RXZ-WP81RL

Site : site #1

Condition : CISPR22 Class B Conduction(QP)

Phase: L1

Company : W6M20706-8198

Power : AC 110V/60Hz

EUT Model: WP81RL

Execute Program :

Note :

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Comment
	0.1527	35.51	QP	10.10	45.61	65.85	-20.24	
*	0.1527	30.52	AVG	10.10	40.62	55.85	-15.23	
	0.2394	22.23	QP	10.10	32.33	62.12	-29.79	
	0.2394	17.22	AVG	10.10	27.32	52.12	-24.80	
	0.6950	17.94	QP	10.10	28.04	56.00	-27.96	
	0.6950	12.95	AVG	10.10	23.05	46.00	-22.95	
	3.4550	11.87	QP	10.10	21.97	56.00	-34.03	
	3.4550	6.85	AVG	10.10	16.95	46.00	-29.05	
	7.0278	13.06	QP	10.10	23.16	60.00	-36.84	
	7.0278	7.08	AVG	10.10	17.18	50.00	-32.82	
	13.9444	18.83	QP	10.10	28.93	60.00	-31.07	
	13.9444	13.82	AVG	10.10	23.92	50.00	-26.08	

- Note:**
1. The formula of measured value as: Test Result = Reading + Correction Factor
 2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss
 3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
 4. All not in the table noted test results are more than 20 dB below the relevant limits.

Limits:

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Test equipment used: ETSTW-CE 001 ETSTW-CE 003 ETSTW-CE 004 ETSTW-CE 006
 ETSTW-CE 011

Explanation: see attached diagrams in Appendix.

Registration number: W6M20706-8198-C-1
FCC ID: RXZ-WP81RL

Appendix

A Measurement diagrams

1. Peak Output Power

2. Spurious Emissions radiated

(The measurement diagrams plots attached below are preliminary wideband scan with a peak detector for reference only. The final test results are listed on section 3.5)

3. Band Edge Measurement

4. Minimum 6dB Bandwidth

5. Peak Power Spectral Density

6. Radiated Emissions from Digital Part

(The measurement diagrams plots attached below are preliminary wideband scan with a peak detector and for reference only. The final test results are listed on section 3.9)

7. Power Line Conducted Emission

(The measurement diagrams plots attached below are preliminary wideband scan with a peak and average detector for reference only. The final test results are listed on section 3.10)

B Photos

1. External Photos

2. Internal Photos

3. Set Up Photo of Radiated Emission

4. Set Up Photo of Conducted Emission