

Report No.: SEWM2211000245RG01

Rev.: 01

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# Appendix B.1

## WCDMA Band II&IV&V



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Channel	Power(dBm)	EIRP	Limit(dBm)	Verdict
Band2	9262	22.67	25.67	33	PASS
Band2	9400	22.69	25.69	33	PASS
Band2	9538	22.64	25.64	33	PASS
Band4	1312	23.02	25.02	30	PASS
Band4	1413	23.05	25.05	30	PASS
Band4	1513	22.68	24.68	30	PASS
Band	Channel	Power(dBm)	ERP	Limit(dBm)	Verdict
Band5	4132	23.07	21.42	38.45	PASS
Band5	4182	23.16	21.51	38.45	PASS
Band5	4233	23.01	21.36	38.45	PASS



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### Field Strength of Spurious Radiation

Test Band = WCDMA Band II\_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3706.5	45.92	-45.68	29.90	-65.13	-13.00	52.13	201	329	Horizontal
2	5557.2	45.51	-43.87	32.78	-60.84	-13.00	47.84	142	313	Horizontal
3	7409.6	39.43	-41.94	36.45	-61.33	-13.00	48.33	263	87	Horizontal
4	9262	37.70	-38.39	38.57	-57.38	-13.00	44.38	258	134	Horizontal
5	11114.4	32.66	-35.32	39.49	-58.43	-13.00	45.43	244	70	Horizontal
6	12966.8	32.35	-34.90	39.57	-58.24	-13.00	45.24	185	358	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3706.5	45.37	-45.68	29.90	-65.68	-13.00	52.68	102	262	Vertical
2	5560.5	48.16	-43.87	32.79	-58.18	-13.00	45.18	185	262	Vertical
3	7409.6	38.61	-41.94	36.45	-62.15	-13.00	49.15	241	84	Vertical
4	9262	38.56	-38.39	38.57	-56.52	-13.00	43.52	142	0	Vertical
5	11114.4	32.28	-35.32	39.49	-58.81	-13.00	45.81	263	18	Vertical
6	12966.8	32.22	-34.90	39.57	-58.37	-13.00	45.37	285	84	Vertical



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Test Band = WCDMA Band II\_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3758.25	46.88	-45.54	30.02	-63.90	-13.00	50.90	263	0	Horizontal
2	5637	46.33	-43.82	33.04	-59.71	-13.00	46.71	285	313	Horizontal
3	7520	39.40	-41.53	36.54	-60.85	-13.00	47.85	241	0	Horizontal
4	9400	36.02	-38.16	38.56	-58.84	-13.00	45.84	142	119	Horizontal
5	11280	32.95	-35.28	39.32	-58.27	-13.00	45.27	255	264	Horizontal
6	13160	32.93	-34.68	39.70	-57.31	-13.00	44.31	263	4	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3758.25	47.45	-45.54	30.02	-63.33	-13.00	50.33	265	168	Vertical
2	5637.75	47.12	-43.81	33.04	-58.91	-13.00	45.91	241	247	Vertical
3	7520	39.62	-41.53	36.54	-60.63	-13.00	47.63	174	264	Vertical
4	9400	36.80	-38.16	38.56	-58.06	-13.00	45.06	142	182	Vertical
5	11280	32.90	-35.28	39.32	-58.32	-13.00	45.32	255	0	Vertical
6	13160	32.09	-34.68	39.70	-58.15	-13.00	45.15	286	3	Vertical



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Test Band = WCDMA Band II\_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3813.75	49.78	-45.44	30.15	-60.76	-13.00	47.76	253	0	Horizontal
2	5726.25	49.26	-43.66	33.32	-56.34	-13.00	43.34	296	314	Horizontal
3	7630	38.86	-41.28	36.76	-60.92	-13.00	47.92	265	217	Horizontal
4	9538	35.69	-38.13	38.55	-59.15	-13.00	46.15	241	234	Horizontal
5	11445.6	32.16	-35.32	39.15	-59.27	-13.00	46.27	155	136	Horizontal
6	13353.2	31.66	-35.15	39.81	-58.94	-13.00	45.94	286	329	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3813	52.01	-45.44	30.15	-58.54	-13.00	45.54	241	167	Vertical
2	5722.8	47.88	-43.67	33.31	-57.74	-13.00	44.74	174	264	Vertical
3	7630	39.20	-41.28	36.76	-60.58	-13.00	47.58	142	54	Vertical
4	9538	34.63	-38.13	38.55	-60.21	-13.00	47.21	255	23	Vertical
5	11445.6	31.62	-35.32	39.15	-59.81	-13.00	46.81	253	264	Vertical
6	13353.2	31.26	-35.15	39.81	-59.34	-13.00	46.34	268	5	Vertical



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Test Band = WCDMA Band IV\_ TM1  
 Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3423	48.45	-45.87	29.43	-63.25	-13.00	50.25	252	264	Horizontal
2	5137.2	41.49	-44.24	32.60	-65.41	-13.00	52.41	241	314	Horizontal
3	6849.6	40.99	-42.50	35.90	-60.87	-13.00	47.87	174	166	Horizontal
4	8562	36.67	-39.70	38.12	-60.17	-13.00	47.17	145	1	Horizontal
5	10274.4	33.56	-36.76	38.80	-59.66	-13.00	46.66	263	357	Horizontal
6	11986.8	30.96	-35.35	38.61	-61.03	-13.00	48.03	285	2	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3423	48.52	-45.87	29.43	-63.18	-13.00	50.18	296	280	Vertical
2	5137.2	40.85	-44.24	32.60	-66.05	-13.00	53.05	265	0	Vertical
3	6849.6	41.31	-42.50	35.90	-60.55	-13.00	47.55	284	280	Vertical
4	8562	36.50	-39.70	38.12	-60.34	-13.00	47.34	142	37	Vertical
5	10274.4	33.58	-36.76	38.80	-59.64	-13.00	46.64	255	184	Vertical
6	11986.8	31.84	-35.35	38.61	-60.15	-13.00	47.15	253	20	Vertical



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Test Band = WCDMA Band IV\_ TM1  
 Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3465.2	44.77	-45.77	29.41	-66.85	-13.00	53.85	252	297	Horizontal
2	5197.8	41.55	-44.15	32.60	-65.26	-13.00	52.26	241	0	Horizontal
3	6930.4	39.37	-42.48	36.06	-62.31	-13.00	49.31	174	266	Horizontal
4	8663	36.57	-39.54	38.23	-60.00	-13.00	47.00	145	0	Horizontal
5	10395.6	32.82	-36.49	38.94	-59.99	-13.00	46.99	144	0	Horizontal
6	12128.2	32.08	-35.20	38.73	-59.65	-13.00	46.65	254	5	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3465.2	45.34	-45.77	29.41	-66.28	-13.00	53.28	254	297	Vertical
2	5197.8	42.46	-44.15	32.60	-64.35	-13.00	51.35	174	280	Vertical
3	6930.4	39.29	-42.48	36.06	-62.39	-13.00	49.39	185	39	Vertical
4	8663	36.90	-39.54	38.23	-59.67	-13.00	46.67	263	198	Vertical
5	10395.6	32.68	-36.49	38.94	-60.13	-13.00	47.13	201	314	Vertical
6	12128.2	32.04	-35.20	38.73	-59.69	-13.00	46.69	185	69	Vertical



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Test Band = WCDMA Band IV\_ TM1  
 Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3503.25	48.65	-45.67	29.41	-62.88	-13.00	49.88	266	0	Horizontal
2	5257.8	41.88	-44.07	32.60	-64.85	-13.00	51.85	254	139	Horizontal
3	7010.4	39.65	-42.58	36.21	-61.98	-13.00	48.98	185	156	Horizontal
4	8763	37.49	-39.21	38.34	-58.64	-13.00	45.64	266	0	Horizontal
5	10515.6	33.31	-36.35	39.07	-59.24	-13.00	46.24	322	75	Horizontal
6	12268.2	30.67	-35.12	38.87	-60.84	-13.00	47.84	254	75	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3506.25	50.01	-45.66	29.42	-61.50	-13.00	48.50	296	282	Vertical
2	5257.8	42.51	-44.07	32.60	-64.22	-13.00	51.22	265	12	Vertical
3	7010.4	40.08	-42.58	36.21	-61.55	-13.00	48.55	241	265	Vertical
4	8763	36.37	-39.21	38.34	-59.76	-13.00	46.76	142	5	Vertical
5	10515.6	33.58	-36.35	39.07	-58.97	-13.00	45.97	255	231	Vertical
6	12268.2	30.22	-35.12	38.87	-61.29	-13.00	48.29	286	1	Vertical



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Test Band = WCDMA Band V\_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1651.5	60.89	-48.38	25.57	-57.17	-13.00	44.17	362	360	Horizontal
2	2479.2	45.73	-46.91	27.86	-68.59	-13.00	55.59	174	87	Horizontal
3	3305.6	43.60	-46.12	29.48	-68.30	-13.00	55.30	142	14	Horizontal
4	4132	40.32	-45.31	30.81	-69.44	-13.00	56.44	265	144	Horizontal
5	4958.4	42.12	-45.07	32.50	-65.71	-13.00	52.71	296	173	Horizontal
6	5784.8	41.42	-43.52	33.51	-63.85	-13.00	50.85	368	159	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654	57.42	-48.37	25.57	-60.64	-13.00	47.64	201	332	Vertical
2	2479.2	45.19	-46.91	27.86	-69.13	-13.00	56.13	174	14	Vertical
3	3305.6	43.40	-46.12	29.48	-68.50	-13.00	55.50	142	26	Vertical
4	4132	41.34	-45.31	30.81	-68.42	-13.00	55.42	296	6	Vertical
5	4958.4	40.91	-45.07	32.50	-66.92	-13.00	53.92	233	200	Vertical
6	5784.8	41.31	-43.52	33.51	-63.96	-13.00	50.96	251	2	Vertical



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**Test Band = WCDMA Band V\_ TM1**  
**Test Channel = Mid Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1674	56.82	-48.31	25.56	-61.19	-13.00	48.19	296	304	Horizontal
2	2509.2	48.94	-46.79	27.93	-65.18	-13.00	52.18	265	290	Horizontal
3	3345.6	43.96	-46.19	29.46	-68.03	-13.00	55.03	284	358	Horizontal
4	4182	39.75	-45.16	30.89	-69.78	-13.00	56.78	142	360	Horizontal
5	5018.4	40.07	-44.93	32.60	-67.52	-13.00	54.52	201	130	Horizontal
6	5854.8	41.50	-43.34	33.74	-63.36	-13.00	50.36	145	202	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1671	52.70	-48.32	25.56	-65.32	-13.00	52.32	201	0	Vertical
2	2509.2	45.58	-46.79	27.93	-68.54	-13.00	55.54	174	0	Vertical
3	3345.6	43.50	-46.19	29.46	-68.49	-13.00	55.49	142	112	Vertical
4	4182	40.24	-45.16	30.89	-69.29	-13.00	56.29	263	6	Vertical
5	5018.4	40.53	-44.93	32.60	-67.06	-13.00	54.06	255	347	Vertical
6	5854.8	41.79	-43.34	33.74	-63.07	-13.00	50.07	286	26	Vertical



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**Test Band = WCDMA Band V\_ TM1**  
**Test Channel = High Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1692	60.48	-48.26	25.55	-57.49	-13.00	44.49	296	263	Horizontal
2	2537	50.12	-46.93	28.03	-64.04	-13.00	51.04	263	306	Horizontal
3	3386.4	44.52	-46.26	29.45	-67.55	-13.00	54.55	285	3	Horizontal
4	4233	40.70	-45.11	30.97	-68.70	-13.00	55.70	241	88	Horizontal
5	5079.6	41.22	-44.67	32.60	-66.11	-13.00	53.11	122	3	Horizontal
6	5926.2	41.50	-43.30	33.96	-63.09	-13.00	50.09	263	360	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1692	52.09	-48.26	25.55	-65.88	-13.00	52.88	296	0	Vertical
2	2539.8	45.59	-46.94	28.04	-68.57	-13.00	55.57	263	0	Vertical
3	3386.4	44.69	-46.26	29.45	-67.38	-13.00	54.38	255	357	Vertical
4	4233	40.93	-45.11	30.97	-68.47	-13.00	55.47	241	86	Vertical
5	5079.6	41.01	-44.67	32.60	-66.32	-13.00	53.32	185	346	Vertical
6	5926.2	41.66	-43.30	33.96	-62.93	-13.00	49.93	253	230	Vertical

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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