

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B14_5MHz_ERP

Band: 14 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	790.5	1	0	22.27	2.85	22.97	<=34.77	Pass
			13	22.56	2.85	23.26	<=34.77	Pass
			24	22.52	2.85	23.22	<=34.77	Pass
		12	0	21.63	2.85	22.33	<=34.77	Pass
			6	21.69	2.85	22.39	<=34.77	Pass
			13	21.72	2.85	22.42	<=34.77	Pass
		25	0	21.70	2.85	22.4	<=34.77	Pass
	793	1	0	22.11	2.85	22.81	<=34.77	Pass
			13	22.64	2.85	23.34	<=34.77	Pass
			24	22.46	2.85	23.16	<=34.77	Pass
		12	0	21.61	2.85	22.31	<=34.77	Pass
			6	21.72	2.85	22.42	<=34.77	Pass
			13	21.66	2.85	22.36	<=34.77	Pass
		25	0	21.52	2.85	22.22	<=34.77	Pass
	795.5	1	0	22.47	2.85	23.17	<=34.77	Pass
			13	22.52	2.85	23.22	<=34.77	Pass
			24	22.44	2.85	23.14	<=34.77	Pass
		12	0	21.18	2.85	21.88	<=34.77	Pass
			6	21.65	2.85	22.35	<=34.77	Pass
			13	21.56	2.85	22.26	<=34.77	Pass
		25	0	21.60	2.85	22.3	<=34.77	Pass
16QAM	790.5	1	0	21.63	2.85	22.33	<=34.77	Pass
			13	22.08	2.85	22.78	<=34.77	Pass
			24	21.81	2.85	22.51	<=34.77	Pass
		12	0	20.58	2.85	21.28	<=34.77	Pass
			6	20.70	2.85	21.4	<=34.77	Pass
			13	20.74	2.85	21.44	<=34.77	Pass
		25	0	20.64	2.85	21.34	<=34.77	Pass
	793	1	0	22.18	2.85	22.88	<=34.77	Pass
			13	21.71	2.85	22.41	<=34.77	Pass
			24	22.00	2.85	22.7	<=34.77	Pass
		12	0	20.21	2.85	20.91	<=34.77	Pass
			6	20.66	2.85	21.36	<=34.77	Pass
			13	20.66	2.85	21.36	<=34.77	Pass
		25	0	20.63	2.85	21.33	<=34.77	Pass
	795.5	1	0	22.04	2.85	22.74	<=34.77	Pass
			13	22.01	2.85	22.71	<=34.77	Pass
			24	21.73	2.85	22.43	<=34.77	Pass
		12	0	20.74	2.85	21.44	<=34.77	Pass
			6	20.70	2.85	21.4	<=34.77	Pass
			13	20.63	2.85	21.33	<=34.77	Pass
		25	0	20.67	2.85	21.37	<=34.77	Pass
64QAM	790.5	1	0	21.76	2.85	22.46	<=34.77	Pass
			13	21.71	2.85	22.41	<=34.77	Pass
			24	21.70	2.85	22.4	<=34.77	Pass
		12	0	20.62	2.85	21.32	<=34.77	Pass
			6	20.66	2.85	21.36	<=34.77	Pass
			13	20.67	2.85	21.37	<=34.77	Pass
		25	0	20.62	2.85	21.32	<=34.77	Pass

	793	1	0	21.60	2.85	22.3	<=34.77	Pass	
			13	21.90	2.85	22.6	<=34.77	Pass	
			24	21.29	2.85	21.99	<=34.77	Pass	
		12	0	20.66	2.85	21.36	<=34.77	Pass	
			6	20.66	2.85	21.36	<=34.77	Pass	
			13	20.61	2.85	21.31	<=34.77	Pass	
		25	0	20.58	2.85	21.28	<=34.77	Pass	
		13	21.74	2.85	22.44	<=34.77	Pass		
		24	21.61	2.85	22.31	<=34.77	Pass		
	12	0	20.70	2.85	21.4	<=34.77	Pass		
		6	20.65	2.85	21.35	<=34.77	Pass		
		13	20.65	2.85	21.35	<=34.77	Pass		
25	0	20.68	2.85	21.38	<=34.77	Pass			
256QAM	790.5	1	0	17.59	2.85	18.29	<=34.77	Pass	
			13	17.59	2.85	18.29	<=34.77	Pass	
			24	17.74	2.85	18.44	<=34.77	Pass	
		12	0	17.60	2.85	18.3	<=34.77	Pass	
			6	17.77	2.85	18.47	<=34.77	Pass	
			13	17.61	2.85	18.31	<=34.77	Pass	
		25	0	17.68	2.85	18.38	<=34.77	Pass	
		13	17.71	2.85	18.41	<=34.77	Pass		
		24	17.56	2.85	18.26	<=34.77	Pass		
	12	0	17.63	2.85	18.33	<=34.77	Pass		
		6	17.49	2.85	18.19	<=34.77	Pass		
		13	17.67	2.85	18.37	<=34.77	Pass		
	25	0	17.66	2.85	18.36	<=34.77	Pass		
	13	17.76	2.85	18.46	<=34.77	Pass			
	24	17.54	2.85	18.24	<=34.77	Pass			
	12	0	17.33	2.85	18.03	<=34.77	Pass		
		6	17.66	2.85	18.36	<=34.77	Pass		
		13	17.65	2.85	18.35	<=34.77	Pass		
	25	0	17.67	2.85	18.37	<=34.77	Pass		
	Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B14_10MHz_ERP

Band: 14 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	793	1	0	22.64	2.85	23.34	<=34.77	Pass
			25	22.40	2.85	23.1	<=34.77	Pass
			49	22.35	2.85	23.05	<=34.77	Pass
		25	0	21.52	2.85	22.22	<=34.77	Pass
			13	21.64	2.85	22.34	<=34.77	Pass
			25	21.18	2.85	21.88	<=34.77	Pass
		50	0	21.65	2.85	22.35	<=34.77	Pass
16QAM	793	1	0	21.85	2.85	22.55	<=34.77	Pass
			25	21.61	2.85	22.31	<=34.77	Pass
			49	21.95	2.85	22.65	<=34.77	Pass
		25	0	20.64	2.85	21.34	<=34.77	Pass
			13	20.68	2.85	21.38	<=34.77	Pass
			25	20.67	2.85	21.37	<=34.77	Pass
		50	0	20.68	2.85	21.38	<=34.77	Pass
64QAM	793	1	0	21.44	2.85	22.14	<=34.77	Pass
			25	21.76	2.85	22.46	<=34.77	Pass
			49	21.34	2.85	22.04	<=34.77	Pass
		25	0	20.73	2.85	21.43	<=34.77	Pass
			13	20.64	2.85	21.34	<=34.77	Pass
			25	20.59	2.85	21.29	<=34.77	Pass
		50	0	20.64	2.85	21.34	<=34.77	Pass
256QAM	793	1	0	17.71	2.85	18.41	<=34.77	Pass
			25	17.71	2.85	18.41	<=34.77	Pass
			49	17.55	2.85	18.25	<=34.77	Pass
		25	0	17.68	2.85	18.38	<=34.77	Pass
			13	17.65	2.85	18.35	<=34.77	Pass
			25	17.63	2.85	18.33	<=34.77	Pass
		50	0	17.60	2.85	18.3	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Field Strength of Spurious Radiation

Test Band = LTE Band14-10M_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1844	45.73	-47.99	25.73	-71.79	-13.00	58.79	Horizontal
2	2370.8571	45.91	-47.46	26.94	-69.87	-13.00	56.87	Horizontal
3	3131.4286	44.56	-46.61	28.23	-69.07	-13.00	56.07	Horizontal
4	3953.7143	44.65	-46.21	29.33	-67.50	-13.00	54.50	Horizontal
5	5451.4286	44.41	-45.06	32.21	-63.69	-13.00	50.69	Horizontal
6	6906.8571	44.18	-44.13	34.83	-60.38	-13.00	47.38	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1934.2857	46.04	-48.00	26.00	-71.22	-13.00	58.22	Vertical
2	2522.8571	45.35	-47.19	27.24	-69.86	-13.00	56.86	Vertical
3	3168.5714	43.55	-46.43	28.27	-69.88	-13.00	56.88	Vertical
4	4150.8571	43.60	-45.93	29.76	-67.83	-13.00	54.83	Vertical
5	5285.7143	43.99	-45.25	31.91	-64.60	-13.00	51.60	Vertical
6	6212	43.36	-44.86	33.12	-63.64	-13.00	50.64	Vertical

Test Band = LTE Band14-5M_ TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1723.4286	45.83	-48.11	25.52	-72.02	-13.00	59.02	Horizontal
2	2458.8571	45.48	-47.34	27.12	-70.01	-13.00	57.01	Horizontal
3	3046.2857	44.28	-46.63	28.15	-69.46	-13.00	56.46	Horizontal
4	3888	44.34	-46.22	29.22	-67.92	-13.00	54.92	Horizontal
5	4865.7143	43.94	-45.60	31.19	-65.74	-13.00	52.74	Horizontal
6	6345.1429	42.99	-44.67	33.57	-63.37	-13.00	50.37	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1729.1429	49.09	-48.10	25.53	-68.74	-13.00	55.74	Vertical
2	2981.1429	44.28	-46.53	28.07	-69.44	-13.00	56.44	Vertical
3	3593.7143	44.16	-46.35	28.75	-68.70	-13.00	55.70	Vertical
4	5424.5714	44.10	-45.01	32.16	-64.01	-13.00	51.01	Vertical
5	6660.5714	42.22	-44.23	34.39	-62.88	-13.00	49.88	Vertical
6	7989.1429	43.07	-42.50	37.08	-57.61	-13.00	44.61	Vertical

Test Band = LTE Band14-5M_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1578.8571	46.20	-48.29	25.38	-71.97	-40.00	31.97	Horizontal
2	2087.4286	45.87	-47.73	26.37	-70.75	-13.00	57.75	Horizontal
3	2828	44.04	-46.82	27.79	-70.25	-13.00	57.25	Horizontal
4	3410.8571	43.67	-46.54	28.51	-69.62	-13.00	56.62	Horizontal
5	4159.4286	43.46	-45.94	29.78	-67.95	-13.00	54.95	Horizontal
6	5817.7143	43.44	-44.71	32.36	-64.17	-13.00	51.17	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1580	45.93	-48.29	25.38	-72.24	-40.00	32.24	Vertical
2	2014.8571	45.51	-47.87	26.23	-71.39	-13.00	58.39	Vertical
3	2733.1429	44.41	-47.01	27.62	-70.24	-13.00	57.24	Vertical
4	3497.7143	43.77	-46.54	28.60	-69.43	-13.00	56.43	Vertical
5	4911.4286	43.64	-45.61	31.26	-65.97	-13.00	52.97	Vertical
6	7210.8571	42.57	-43.83	35.59	-60.93	-13.00	47.93	Vertical

Test Band = LTE Band14-5M_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.2857	46.07	-48.30	25.35	-72.13	-13.00	59.13	Horizontal
2	2231.4286	45.69	-47.62	26.66	-70.53	-13.00	57.53	Horizontal
3	3109.1429	44.65	-46.71	28.21	-69.11	-13.00	56.11	Horizontal
4	3864.5714	44.06	-46.21	29.18	-68.22	-13.00	55.22	Horizontal
5	5028.5714	43.58	-45.69	31.45	-65.92	-13.00	52.92	Horizontal
6	6296.5714	43.27	-44.62	33.41	-63.20	-13.00	50.20	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1579.4286	46.45	-48.29	25.38	-71.72	-40.00	31.72	Vertical
2	2119.4286	45.53	-47.70	26.44	-71.00	-13.00	58.00	Vertical
3	2568.5714	45.33	-47.04	27.32	-69.64	-13.00	56.64	Vertical
4	3361.1429	43.89	-46.59	28.46	-69.50	-13.00	56.50	Vertical
5	4444.5714	44.65	-45.76	30.47	-65.90	-13.00	52.90	Vertical
6	6615.4286	42.29	-44.42	34.31	-63.09	-13.00	50.09	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---