

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B13_5MHz_ERP

Band: 13 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	779.5	1	0	22.57	2.9	23.32	<=34.77	Pass
			13	22.20	2.9	22.95	<=34.77	Pass
			24	22.60	2.9	23.35	<=34.77	Pass
		12	0	21.64	2.9	22.39	<=34.77	Pass
			6	21.54	2.9	22.29	<=34.77	Pass
			13	21.53	2.9	22.28	<=34.77	Pass
		25	0	21.60	2.9	22.35	<=34.77	Pass
	782	1	0	22.45	2.9	23.2	<=34.77	Pass
			13	22.65	2.9	23.4	<=34.77	Pass
			24	22.64	2.9	23.39	<=34.77	Pass
		12	0	21.26	2.9	22.01	<=34.77	Pass
			6	21.50	2.9	22.25	<=34.77	Pass
			13	21.49	2.9	22.24	<=34.77	Pass
		25	0	21.50	2.9	22.25	<=34.77	Pass
	784.5	1	0	22.17	2.9	22.92	<=34.77	Pass
			13	22.52	2.9	23.27	<=34.77	Pass
			24	22.33	2.9	23.08	<=34.77	Pass
		12	0	21.56	2.9	22.31	<=34.77	Pass
			6	21.68	2.9	22.43	<=34.77	Pass
			13	21.67	2.9	22.42	<=34.77	Pass
		25	0	21.69	2.9	22.44	<=34.77	Pass
16QAM	779.5	1	0	21.63	2.9	22.38	<=34.77	Pass
			13	21.75	2.9	22.5	<=34.77	Pass
			24	21.66	2.9	22.41	<=34.77	Pass
		12	0	20.65	2.9	21.4	<=34.77	Pass
			6	20.74	2.9	21.49	<=34.77	Pass
			13	20.66	2.9	21.41	<=34.77	Pass
		25	0	20.62	2.9	21.37	<=34.77	Pass
	782	1	0	21.83	2.9	22.58	<=34.77	Pass
			13	21.96	2.9	22.71	<=34.77	Pass
			24	21.36	2.9	22.11	<=34.77	Pass
		12	0	20.37	2.9	21.12	<=34.77	Pass
			6	20.66	2.9	21.41	<=34.77	Pass
			13	20.63	2.9	21.38	<=34.77	Pass
		25	0	20.57	2.9	21.32	<=34.77	Pass
	784.5	1	0	21.86	2.9	22.61	<=34.77	Pass
			13	21.98	2.9	22.73	<=34.77	Pass
			24	21.76	2.9	22.51	<=34.77	Pass
		12	0	20.23	2.9	20.98	<=34.77	Pass
			6	20.74	2.9	21.49	<=34.77	Pass
			13	20.70	2.9	21.45	<=34.77	Pass
		25	0	20.61	2.9	21.36	<=34.77	Pass
64QAM	779.5	1	0	21.86	2.9	22.61	<=34.77	Pass
			13	21.65	2.9	22.4	<=34.77	Pass
			24	20.99	2.9	21.74	<=34.77	Pass
		12	0	20.36	2.9	21.11	<=34.77	Pass
			6	20.71	2.9	21.46	<=34.77	Pass
			13	20.62	2.9	21.37	<=34.77	Pass
		25	0	20.59	2.9	21.34	<=34.77	Pass

	782	1	0	21.37	2.9	22.12	<=34.77	Pass	
			13	21.70	2.9	22.45	<=34.77	Pass	
			24	21.23	2.9	21.98	<=34.77	Pass	
		12	0	20.54	2.9	21.29	<=34.77	Pass	
			6	20.48	2.9	21.23	<=34.77	Pass	
			13	20.65	2.9	21.4	<=34.77	Pass	
		25	0	20.22	2.9	20.97	<=34.77	Pass	
		13	21.95	2.9	22.7	<=34.77	Pass		
		24	21.38	2.9	22.13	<=34.77	Pass		
	12	0	20.70	2.9	21.45	<=34.77	Pass		
		6	20.69	2.9	21.44	<=34.77	Pass		
		13	20.73	2.9	21.48	<=34.77	Pass		
	25	0	20.64	2.9	21.39	<=34.77	Pass		
	256QAM	779.5	1	0	17.58	2.9	18.33	<=34.77	Pass
				13	17.81	2.9	18.56	<=34.77	Pass
				24	17.64	2.9	18.39	<=34.77	Pass
			12	0	17.18	2.9	17.93	<=34.77	Pass
				6	17.72	2.9	18.47	<=34.77	Pass
13				17.74	2.9	18.49	<=34.77	Pass	
25			0	17.56	2.9	18.31	<=34.77	Pass	
13			17.50	2.9	18.25	<=34.77	Pass		
24			17.43	2.9	18.18	<=34.77	Pass		
12		0	17.56	2.9	18.31	<=34.77	Pass		
		6	17.52	2.9	18.27	<=34.77	Pass		
		13	17.65	2.9	18.4	<=34.77	Pass		
25		0	17.70	2.9	18.45	<=34.77	Pass		
13		17.74	2.9	18.49	<=34.77	Pass			
24		17.80	2.9	18.55	<=34.77	Pass			
12		0	17.55	2.9	18.3	<=34.77	Pass		
		6	17.51	2.9	18.26	<=34.77	Pass		
		13	17.63	2.9	18.38	<=34.77	Pass		
25		0	17.72	2.9	18.47	<=34.77	Pass		
Note1: ERP=Conducted Power+Antenna Gain-2.15									

1.1.2 B13_10MHz_ERP

Band: 13 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	782	1	0	22.17	2.9	22.92	<=34.77	Pass
			25	22.52	2.9	23.27	<=34.77	Pass
			49	22.24	2.9	22.99	<=34.77	Pass
		25	0	21.60	2.9	22.35	<=34.77	Pass
			13	21.18	2.9	21.93	<=34.77	Pass
			25	21.35	2.9	22.1	<=34.77	Pass
		50	0	21.23	2.9	21.98	<=34.77	Pass
16QAM	782	1	0	21.62	2.9	22.37	<=34.77	Pass
			25	21.94	2.9	22.69	<=34.77	Pass
			49	21.36	2.9	22.11	<=34.77	Pass
		25	0	20.64	2.9	21.39	<=34.77	Pass
			13	20.58	2.9	21.33	<=34.77	Pass
			25	20.64	2.9	21.39	<=34.77	Pass
		50	0	20.34	2.9	21.09	<=34.77	Pass
64QAM	782	1	0	21.71	2.9	22.46	<=34.77	Pass
			25	21.55	2.9	22.3	<=34.77	Pass
			49	21.43	2.9	22.18	<=34.77	Pass
		25	0	20.70	2.9	21.45	<=34.77	Pass
			13	20.69	2.9	21.44	<=34.77	Pass
			25	20.59	2.9	21.34	<=34.77	Pass
		50	0	20.52	2.9	21.27	<=34.77	Pass
256QAM	782	1	0	17.68	2.9	18.43	<=34.77	Pass
			25	17.74	2.9	18.49	<=34.77	Pass
			49	17.75	2.9	18.5	<=34.77	Pass
		25	0	17.59	2.9	18.34	<=34.77	Pass
			13	17.54	2.9	18.29	<=34.77	Pass
			25	17.70	2.9	18.45	<=34.77	Pass
		50	0	17.64	2.9	18.39	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Field Strength of Spurious Radiation

Test Band = LTE Band13-10M_ 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	1734.8571	45.69	-48.09	25.53	-72.12	-13.00	59.12	Horizontal
2	2329.1429	46.12	-47.49	26.86	-69.77	-13.00	56.77	Horizontal
3	3250.8571	43.65	-46.49	28.35	-69.75	-13.00	56.75	Horizontal
4	3976.5714	44.53	-46.21	29.36	-67.57	-13.00	54.57	Horizontal
5	5434.2857	44.60	-45.03	32.18	-63.51	-13.00	50.51	Horizontal
6	6694.8571	42.77	-44.08	34.45	-62.12	-13.00	49.12	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1877.7143	45.92	-48.03	25.83	-71.53	-13.00	58.53	Vertical
2	2509.7143	45.86	-47.24	27.22	-69.42	-13.00	56.42	Vertical
3	3198.8571	43.90	-46.30	28.30	-69.36	-13.00	56.36	Vertical
4	3985.7143	44.60	-46.20	29.38	-67.49	-13.00	54.49	Vertical
5	4868.5714	43.89	-45.60	31.19	-65.78	-13.00	52.78	Vertical
6	6206.2857	43.52	-44.87	33.10	-63.51	-13.00	50.51	Vertical

Test Band = LTE Band13-5M_ 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	1734.2857	45.98	-48.09	25.53	-71.83	-13.00	58.83	Horizontal
2	2088.5714	46.12	-47.73	26.38	-70.49	-13.00	57.49	Horizontal
3	2713.1429	44.95	-47.03	27.58	-69.76	-13.00	56.76	Horizontal
4	3161.1429	43.53	-46.47	28.26	-69.94	-13.00	56.94	Horizontal
5	4432.5714	43.99	-45.80	30.44	-66.63	-13.00	53.63	Horizontal
6	5824	43.82	-44.73	32.36	-63.81	-13.00	50.81	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1682.8571	45.80	-48.18	25.48	-72.16	-13.00	59.16	Vertical
2	2367.4286	45.59	-47.47	26.93	-70.20	-13.00	57.20	Vertical
3	3386.2857	43.63	-46.56	28.49	-69.70	-13.00	56.70	Vertical
4	4761.1429	43.82	-45.70	31.02	-66.12	-13.00	53.12	Vertical
5	6019.4286	43.45	-44.48	32.47	-63.82	-13.00	50.82	Vertical
6	6757.7143	43.04	-44.09	34.56	-61.75	-13.00	48.75	Vertical

Test Band = LTE Band13-5M_ 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	1587.4286	46.39	-48.29	25.39	-71.77	-40.00	31.77	Horizontal
2	2088	45.93	-47.73	26.38	-70.69	-13.00	57.69	Horizontal
3	2718.8571	45.05	-47.03	27.59	-69.64	-13.00	56.64	Horizontal
4	3724	44.49	-46.15	28.96	-67.96	-13.00	54.96	Horizontal
5	5126.2857	43.53	-45.28	31.63	-65.38	-13.00	52.38	Horizontal
6	6906.8571	44.14	-44.13	34.83	-60.42	-13.00	47.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1596.5714	45.94	-48.28	25.40	-72.20	-40.00	32.20	Vertical
2	2193.1429	46.12	-47.68	26.59	-70.24	-13.00	57.24	Vertical
3	2901.7143	44.19	-46.57	27.92	-69.72	-13.00	56.72	Vertical
4	3116.5714	44.55	-46.67	28.22	-69.17	-13.00	56.17	Vertical
5	3950.2857	44.28	-46.21	29.32	-67.87	-13.00	54.87	Vertical
6	4865.1429	43.49	-45.60	31.18	-66.19	-13.00	53.19	Vertical

Test Band = LTE Band13-5M_ 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	1586.2857	46.06	-48.29	25.39	-72.10	-40.00	32.10	Horizontal
2	2219.4286	45.88	-47.65	26.64	-70.39	-13.00	57.39	Horizontal
3	2812	44.46	-46.88	27.76	-69.92	-13.00	56.92	Horizontal
4	3597.7143	44.65	-46.34	28.76	-68.20	-13.00	55.20	Horizontal
5	4898.2857	43.85	-45.58	31.24	-65.75	-13.00	52.75	Horizontal
6	6330.8571	43.39	-44.65	33.52	-63.00	-13.00	50.00	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1570.2857	46.29	-48.29	25.37	-71.89	-40.00	31.89	Vertical
2	2191.4286	45.86	-47.68	26.58	-70.50	-13.00	57.50	Vertical
3	2988	44.59	-46.53	28.08	-69.12	-13.00	56.12	Vertical
4	3818.8571	44.26	-46.17	29.11	-68.06	-13.00	55.06	Vertical
5	4892.5714	43.65	-45.58	31.23	-65.97	-13.00	52.97	Vertical
6	6906.2857	43.50	-44.13	34.83	-61.06	-13.00	48.06	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---