

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B13_5MHz_ERP

Band: 13 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	779.5	1	0	22.83	1.92	22.60	<=34.77	Pass
			13	22.81	1.92	22.58	<=34.77	Pass
			24	22.77	1.92	22.54	<=34.77	Pass
		12	0	21.61	1.92	21.38	<=34.77	Pass
			6	21.66	1.92	21.43	<=34.77	Pass
			13	21.62	1.92	21.39	<=34.77	Pass
		25	0	21.64	1.92	21.41	<=34.77	Pass
	782	1	0	22.75	1.92	22.52	<=34.77	Pass
			13	22.67	1.92	22.44	<=34.77	Pass
			24	22.72	1.92	22.49	<=34.77	Pass
		12	0	21.62	1.92	21.39	<=34.77	Pass
			6	21.66	1.92	21.43	<=34.77	Pass
			13	21.70	1.92	21.47	<=34.77	Pass
		25	0	21.67	1.92	21.44	<=34.77	Pass
	784.5	1	0	22.62	1.92	22.39	<=34.77	Pass
			13	22.63	1.92	22.40	<=34.77	Pass
			24	22.58	1.92	22.35	<=34.77	Pass
		12	0	21.51	1.92	21.28	<=34.77	Pass
			6	21.58	1.92	21.35	<=34.77	Pass
			13	21.50	1.92	21.27	<=34.77	Pass
		25	0	21.55	1.92	21.32	<=34.77	Pass
16QAM	779.5	1	0	21.79	1.92	21.56	<=34.77	Pass
			13	21.80	1.92	21.57	<=34.77	Pass
			24	21.84	1.92	21.61	<=34.77	Pass
		12	0	20.60	1.92	20.37	<=34.77	Pass
			6	20.64	1.92	20.41	<=34.77	Pass
			13	20.58	1.92	20.35	<=34.77	Pass
		25	0	20.66	1.92	20.43	<=34.77	Pass
	782	1	0	21.80	1.92	21.57	<=34.77	Pass
			13	21.77	1.92	21.54	<=34.77	Pass
			24	21.75	1.92	21.52	<=34.77	Pass
		12	0	20.58	1.92	20.35	<=34.77	Pass
			6	20.58	1.92	20.35	<=34.77	Pass
			13	20.60	1.92	20.37	<=34.77	Pass
		25	0	20.64	1.92	20.41	<=34.77	Pass
	784.5	1	0	21.87	1.92	21.64	<=34.77	Pass
			13	21.83	1.92	21.60	<=34.77	Pass
			24	21.78	1.92	21.55	<=34.77	Pass
		12	0	20.52	1.92	20.29	<=34.77	Pass
			6	20.59	1.92	20.36	<=34.77	Pass
			13	20.53	1.92	20.30	<=34.77	Pass
		25	0	20.54	1.92	20.31	<=34.77	Pass
64QAM	779.5	1	0	21.00	1.92	20.77	<=34.77	Pass
			13	20.92	1.92	20.69	<=34.77	Pass
			24	20.92	1.92	20.69	<=34.77	Pass
		12	0	19.57	1.92	19.34	<=34.77	Pass
			6	19.64	1.92	19.41	<=34.77	Pass
			13	19.54	1.92	19.31	<=34.77	Pass
		25	0	19.60	1.92	19.37	<=34.77	Pass

	782	1	0	20.75	1.92	20.52	<=34.77	Pass
			13	20.75	1.92	20.52	<=34.77	Pass
			24	20.69	1.92	20.46	<=34.77	Pass
		12	0	19.53	1.92	19.30	<=34.77	Pass
			6	19.52	1.92	19.29	<=34.77	Pass
			13	19.55	1.92	19.32	<=34.77	Pass
		25	0	19.63	1.92	19.40	<=34.77	Pass
	784.5	1	0	21.12	1.92	20.89	<=34.77	Pass
			13	21.04	1.92	20.81	<=34.77	Pass
			24	21.00	1.92	20.77	<=34.77	Pass
		12	0	19.56	1.92	19.33	<=34.77	Pass
			6	19.65	1.92	19.42	<=34.77	Pass
			13	19.59	1.92	19.36	<=34.77	Pass
		25	0	19.50	1.92	19.27	<=34.77	Pass
256QAM	779.5	1	0	18.11	1.92	17.88	<=34.77	Pass
			13	18.02	1.92	17.79	<=34.77	Pass
			24	17.99	1.92	17.76	<=34.77	Pass
		12	0	17.72	1.92	17.49	<=34.77	Pass
			6	17.83	1.92	17.60	<=34.77	Pass
			13	17.79	1.92	17.56	<=34.77	Pass
		25	0	17.72	1.92	17.49	<=34.77	Pass
	782	1	0	17.63	1.92	17.40	<=34.77	Pass
			13	17.59	1.92	17.36	<=34.77	Pass
			24	17.58	1.92	17.35	<=34.77	Pass
		12	0	17.66	1.92	17.43	<=34.77	Pass
			6	17.66	1.92	17.43	<=34.77	Pass
			13	17.73	1.92	17.50	<=34.77	Pass
		25	0	17.78	1.92	17.55	<=34.77	Pass
	784.5	1	0	17.88	1.92	17.65	<=34.77	Pass
			13	17.84	1.92	17.61	<=34.77	Pass
			24	17.78	1.92	17.55	<=34.77	Pass
		12	0	17.64	1.92	17.41	<=34.77	Pass
			6	17.70	1.92	17.47	<=34.77	Pass
			13	17.63	1.92	17.40	<=34.77	Pass
		25	0	17.66	1.92	17.43	<=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	22.82	1.92	22.59	<=34.77	Pass
			25	22.72	1.92	22.49	<=34.77	Pass
			49	22.66	1.92	22.43	<=34.77	Pass
		25	0	21.62	1.92	21.39	<=34.77	Pass
			13	21.63	1.92	21.40	<=34.77	Pass
			25	21.65	1.92	21.42	<=34.77	Pass
		50	0	21.67	1.92	21.44	<=34.77	Pass
16QAM	782	1	0	21.92	1.92	21.69	<=34.77	Pass
			25	21.90	1.92	21.67	<=34.77	Pass
			49	21.80	1.92	21.57	<=34.77	Pass
		25	0	20.70	1.92	20.47	<=34.77	Pass
			13	20.72	1.92	20.49	<=34.77	Pass
			25	20.71	1.92	20.48	<=34.77	Pass
		50	0	20.60	1.92	20.37	<=34.77	Pass
64QAM	782	1	0	21.10	1.92	20.87	<=34.77	Pass

			25	21.01	1.92	20.78	<=34.77	Pass
			49	20.94	1.92	20.71	<=34.77	Pass
		25	0	19.59	1.92	19.36	<=34.77	Pass
			13	19.60	1.92	19.37	<=34.77	Pass
			25	19.61	1.92	19.38	<=34.77	Pass
		50	0	19.62	1.92	19.39	<=34.77	Pass
256QAM	782	1	0	17.90	1.92	17.67	<=34.77	Pass
			25	17.87	1.92	17.64	<=34.77	Pass
			49	17.74	1.92	17.51	<=34.77	Pass
		25	0	17.79	1.92	17.56	<=34.77	Pass
			13	17.78	1.92	17.55	<=34.77	Pass
			25	17.78	1.92	17.55	<=34.77	Pass
		50	0	17.76	1.92	17.53	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Field Strength of Spurious Radiation

Test Band = LTE_13_5MHz_TM1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5	48.17	-46.83	24.28	-69.64	-13.00	56.64	Horizontal
2	1585.5	47.50	-46.92	24.84	-69.84	-40.00	29.84	Horizontal
3	1812.5	54.70	-46.60	25.45	-61.71	-13.00	48.71	Horizontal
4	1937.5	53.95	-46.46	25.48	-62.29	-13.00	49.29	Horizontal
5	5615.5	44.93	-41.43	32.57	-59.19	-13.00	46.19	Horizontal
6	9340	42.29	-35.23	37.34	-50.86	-13.00	37.86	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5	50.62	-46.83	24.28	-67.19	-13.00	54.19	Vertical
2	1596	47.49	-46.95	25.03	-69.69	-40.00	29.69	Vertical
3	1812.5	53.75	-46.60	25.45	-62.66	-13.00	49.66	Vertical
4	1937.5	53.70	-46.46	25.48	-62.54	-13.00	49.54	Vertical
5	3187.5	50.24	-44.73	28.48	-61.27	-13.00	48.27	Vertical
6	9344	42.64	-35.22	37.36	-50.48	-13.00	37.48	Vertical

Test Band = LTE_13_5MHz_TM1
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.5	49.25	-46.85	24.37	-68.49	-40.00	28.49	Horizontal
2	1812.5	56.64	-46.60	25.45	-59.77	-13.00	46.77	Horizontal
3	1937.5	56.15	-46.46	25.48	-60.09	-13.00	47.09	Horizontal
4	3799	46.38	-44.22	29.80	-63.30	-13.00	50.30	Horizontal
5	6071	45.01	-40.67	33.46	-57.46	-13.00	44.46	Horizontal
6	9510.5	42.13	-35.04	37.80	-50.37	-13.00	37.37	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.5	49.73	-46.85	24.37	-68.01	-40.00	28.01	Vertical
2	1812.5	52.47	-46.60	25.45	-63.94	-13.00	50.94	Vertical
3	1937.5	53.33	-46.46	25.48	-62.91	-13.00	49.91	Vertical
4	3187.5	50.39	-44.73	28.48	-61.12	-13.00	48.12	Vertical
5	5604	45.07	-41.42	32.59	-59.02	-13.00	46.02	Vertical
6	9342	42.36	-35.22	37.35	-50.77	-13.00	37.77	Vertical

Test Band = LTE_13_5MHz_TM1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5	49.30	-46.86	24.46	-68.36	-40.00	28.36	Horizontal
2	1812.5	57.42	-46.60	25.45	-58.99	-13.00	45.99	Horizontal
3	1937.5	56.26	-46.46	25.48	-59.98	-13.00	46.98	Horizontal
4	3062.5	49.98	-45.30	28.83	-61.75	-13.00	48.75	Horizontal
5	5577.5	45.23	-41.56	32.42	-59.17	-13.00	46.17	Horizontal
6	9514.5	41.76	-35.07	37.80	-50.77	-13.00	37.77	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5	50.27	-46.86	24.46	-67.39	-40.00	27.39	Vertical
2	1812.5	52.52	-46.60	25.45	-63.89	-13.00	50.89	Vertical
3	1937.5	53.46	-46.46	25.48	-62.78	-13.00	49.78	Vertical
4	3187.5	50.62	-44.73	28.48	-60.89	-13.00	47.89	Vertical
5	5353.5	45.20	-41.58	32.22	-59.42	-13.00	46.42	Vertical
6	9326	42.58	-35.26	37.26	-50.68	-13.00	37.68	Vertical

Test Band = LTE_13_10MHz_TM1
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.5	49.04	-46.84	24.30	-68.76	-13.00	55.76	Horizontal
2	1610	47.03	-46.94	25.18	-69.99	-40.00	29.99	Horizontal
3	1812.5	57.39	-46.60	25.45	-59.02	-13.00	46.02	Horizontal
4	1937.5	55.98	-46.46	25.48	-60.26	-13.00	47.26	Horizontal
5	4519.5	46.21	-43.21	29.64	-62.62	-13.00	49.62	Horizontal
6	9294.5	42.47	-35.33	37.14	-50.98	-13.00	37.98	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555	49.27	-46.83	24.29	-68.53	-13.00	55.53	Vertical
2	1583	47.00	-46.91	24.79	-70.38	-40.00	30.38	Vertical
3	1812.5	52.61	-46.60	25.45	-63.80	-13.00	50.80	Vertical
4	1937.5	53.87	-46.46	25.48	-62.37	-13.00	49.37	Vertical
5	5358	45.06	-41.60	32.25	-59.55	-13.00	46.55	Vertical
6	9496.5	41.65	-34.99	37.78	-50.82	-13.00	37.82	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---