

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B30_5MHz_EIRP

Band: 30 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2307.5	1	0	20.77	0.89	21.66	<=23.98	Pass
			13	20.68	0.89	21.57	<=23.98	Pass
			24	20.62	0.89	21.51	<=23.98	Pass
		12	0	19.74	0.89	20.63	<=23.98	Pass
			6	19.77	0.89	20.66	<=23.98	Pass
			13	19.76	0.89	20.65	<=23.98	Pass
		25	0	19.68	0.89	20.57	<=23.98	Pass
	2310	1	0	20.65	0.89	21.54	<=23.98	Pass
			13	20.78	0.89	21.67	<=23.98	Pass
			24	20.68	0.89	21.57	<=23.98	Pass
		12	0	19.50	0.89	20.39	<=23.98	Pass
			6	19.59	0.89	20.48	<=23.98	Pass
			13	19.63	0.89	20.52	<=23.98	Pass
		25	0	19.68	0.89	20.57	<=23.98	Pass
	2312.5	1	0	20.70	0.89	21.59	<=23.98	Pass
			13	20.52	0.89	21.41	<=23.98	Pass
			24	20.56	0.89	21.45	<=23.98	Pass
		12	0	19.77	0.89	20.66	<=23.98	Pass
			6	19.61	0.89	20.50	<=23.98	Pass
			13	19.67	0.89	20.56	<=23.98	Pass
		25	0	19.71	0.89	20.60	<=23.98	Pass
16QAM	2307.5	1	0	20.09	0.89	20.98	<=23.98	Pass
			13	19.89	0.89	20.78	<=23.98	Pass
			24	19.96	0.89	20.85	<=23.98	Pass
		12	0	18.73	0.89	19.62	<=23.98	Pass
			6	18.77	0.89	19.66	<=23.98	Pass
			13	18.68	0.89	19.57	<=23.98	Pass
		25	0	18.74	0.89	19.63	<=23.98	Pass
	2310	1	0	19.73	0.89	20.62	<=23.98	Pass
			13	19.76	0.89	20.65	<=23.98	Pass
			24	19.64	0.89	20.53	<=23.98	Pass
		12	0	18.82	0.89	19.71	<=23.98	Pass
			6	18.66	0.89	19.55	<=23.98	Pass
			13	18.70	0.89	19.59	<=23.98	Pass
		25	0	18.66	0.89	19.55	<=23.98	Pass
	2312.5	1	0	20.04	0.89	20.93	<=23.98	Pass
			13	20.22	0.89	21.11	<=23.98	Pass
			24	19.83	0.89	20.72	<=23.98	Pass
		12	0	18.75	0.89	19.64	<=23.98	Pass
			6	18.74	0.89	19.63	<=23.98	Pass
			13	18.70	0.89	19.59	<=23.98	Pass
		25	0	18.76	0.89	19.65	<=23.98	Pass
64QAM	2307.5	1	0	19.64	0.89	20.53	<=23.98	Pass
			13	20.01	0.89	20.90	<=23.98	Pass
			24	19.67	0.89	20.56	<=23.98	Pass
		12	0	18.71	0.89	19.60	<=23.98	Pass
			6	18.68	0.89	19.57	<=23.98	Pass
			13	18.70	0.89	19.59	<=23.98	Pass
		25	0	18.70	0.89	19.59	<=23.98	Pass

	2310	1	0	19.88	0.89	20.77	<=23.98	Pass		
			13	19.85	0.89	20.74	<=23.98	Pass		
			24	19.82	0.89	20.71	<=23.98	Pass		
		12	0	18.77	0.89	19.66	<=23.98	Pass		
			6	18.73	0.89	19.62	<=23.98	Pass		
			13	18.63	0.89	19.52	<=23.98	Pass		
		25	0	18.57	0.89	19.46	<=23.98	Pass		
		2312.5	1	0	19.78	0.89	20.67	<=23.98	Pass	
				13	19.71	0.89	20.60	<=23.98	Pass	
	24			19.86	0.89	20.75	<=23.98	Pass		
	12		0	18.74	0.89	19.63	<=23.98	Pass		
			6	18.67	0.89	19.56	<=23.98	Pass		
			13	18.59	0.89	19.48	<=23.98	Pass		
	25		0	18.55	0.89	19.44	<=23.98	Pass		
	256QAM		2307.5	1	0	15.83	0.89	16.72	<=23.98	Pass
					13	15.56	0.89	16.45	<=23.98	Pass
		24			15.67	0.89	16.56	<=23.98	Pass	
		12		0	15.72	0.89	16.61	<=23.98	Pass	
6				15.73	0.89	16.62	<=23.98	Pass		
13				15.68	0.89	16.57	<=23.98	Pass		
25		0		15.69	0.89	16.58	<=23.98	Pass		
2310		1	0	15.82	0.89	16.71	<=23.98	Pass		
			13	15.76	0.89	16.65	<=23.98	Pass		
			24	15.52	0.89	16.41	<=23.98	Pass		
		12	0	15.70	0.89	16.59	<=23.98	Pass		
			6	15.71	0.89	16.60	<=23.98	Pass		
			13	15.72	0.89	16.61	<=23.98	Pass		
		25	0	15.61	0.89	16.50	<=23.98	Pass		
2312.5		1	0	15.73	0.89	16.62	<=23.98	Pass		
			13	15.64	0.89	16.53	<=23.98	Pass		
			24	15.58	0.89	16.47	<=23.98	Pass		
		12	0	15.67	0.89	16.56	<=23.98	Pass		
	6		15.76	0.89	16.65	<=23.98	Pass			
	13		15.51	0.89	16.40	<=23.98	Pass			
	25	0	15.65	0.89	16.54	<=23.98	Pass			
Note1: EIRP=Conducted Power+Antenna Gain										

1.1.3 B30_10MHz_EIRP

Band: 30 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2310	1	0	20.57	0.89	21.46	<=23.98	Pass
			25	20.58	0.89	21.47	<=23.98	Pass
			49	20.27	0.89	21.16	<=23.98	Pass
		25	0	19.74	0.89	20.63	<=23.98	Pass
			13	19.66	0.89	20.55	<=23.98	Pass
			25	19.62	0.89	20.51	<=23.98	Pass
		50	0	19.59	0.89	20.48	<=23.98	Pass
16QAM	2310	1	0	19.90	0.89	20.79	<=23.98	Pass
			25	19.79	0.89	20.68	<=23.98	Pass
			49	19.69	0.89	20.58	<=23.98	Pass
		25	0	18.74	0.89	19.63	<=23.98	Pass
			13	18.64	0.89	19.53	<=23.98	Pass
			25	18.56	0.89	19.45	<=23.98	Pass
		50	0	18.70	0.89	19.59	<=23.98	Pass
64QAM	2310	1	0	19.60	0.89	20.49	<=23.98	Pass
			25	19.68	0.89	20.57	<=23.98	Pass
			49	19.49	0.89	20.38	<=23.98	Pass
		25	0	18.65	0.89	19.54	<=23.98	Pass
			13	18.56	0.89	19.45	<=23.98	Pass
			25	18.63	0.89	19.52	<=23.98	Pass
		50	0	18.64	0.89	19.53	<=23.98	Pass
256QAM	2310	1	0	15.81	0.89	16.70	<=23.98	Pass
			25	15.77	0.89	16.66	<=23.98	Pass
			49	15.67	0.89	16.56	<=23.98	Pass
		25	0	15.73	0.89	16.62	<=23.98	Pass
			13	15.64	0.89	16.53	<=23.98	Pass
			25	15.66	0.89	16.55	<=23.98	Pass
		50	0	15.62	0.89	16.51	<=23.98	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

2. Field Strength of Spurious Radiation

Test Band = LTE Band30-10M_ 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	3874	44.91	-46.19	29.20	-67.34	-40.00	27.34	Horizontal
2	5321	45.01	-45.13	31.98	-63.41	-40.00	23.41	Horizontal
3	6716	43.25	-43.87	34.49	-61.39	-40.00	21.39	Horizontal
4	8470	42.32	-41.57	36.82	-57.69	-40.00	17.69	Horizontal
5	10897	36.67	-37.83	38.59	-57.83	-40.00	17.83	Horizontal
6	13776	35.16	-36.34	40.49	-55.96	-40.00	15.96	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3974.5	44.60	-46.10	29.36	-67.40	-40.00	27.40	Vertical
2	5551.5	44.71	-45.15	32.31	-63.39	-40.00	23.39	Vertical
3	7193	43.25	-43.48	35.54	-59.94	-40.00	19.94	Vertical
4	8763	41.96	-41.41	36.64	-58.07	-40.00	18.07	Vertical
5	11295	37.09	-37.42	38.75	-56.84	-40.00	16.84	Vertical
6	13170.5	35.60	-37.14	39.64	-57.16	-40.00	17.16	Vertical

Test Band = LTE Band30-5M_ 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	4367.5	44.81	-45.73	30.28	-65.90	-40.00	25.90	Horizontal
2	5357	45.23	-45.21	32.04	-63.20	-40.00	23.20	Horizontal
3	6906.5	43.99	-44.06	34.83	-60.50	-40.00	20.50	Horizontal
4	8391.5	41.96	-41.50	36.87	-57.93	-40.00	17.93	Horizontal
5	9551.5	39.59	-39.94	37.60	-58.01	-40.00	18.01	Horizontal
6	12174	36.33	-37.45	39.15	-57.23	-40.00	17.23	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4203.5	43.78	-45.76	29.89	-67.35	-40.00	27.35	Vertical
2	5809.5	44.16	-44.77	32.36	-63.51	-40.00	23.51	Vertical
3	6703.5	43.36	-43.82	34.47	-61.26	-40.00	21.26	Vertical
4	8039	42.10	-41.96	37.08	-58.05	-40.00	18.05	Vertical
5	10290	37.99	-39.13	38.53	-57.87	-40.00	17.87	Vertical
6	13148.5	35.15	-37.10	39.61	-57.60	-40.00	17.60	Vertical

Test Band = LTE Band30-5M_ 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	4059	44.82	-45.87	29.54	-66.77	-40.00	26.77	Horizontal
2	6287	43.84	-44.57	33.38	-62.61	-40.00	22.61	Horizontal
3	7558	42.65	-43.02	36.48	-59.15	-40.00	19.15	Horizontal
4	9803.5	38.47	-39.47	38.11	-58.16	-40.00	18.16	Horizontal
5	12349	36.59	-37.48	39.20	-56.95	-40.00	16.95	Horizontal
6	13847.5	34.84	-35.95	40.59	-55.78	-40.00	15.78	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4153	43.71	-45.77	29.77	-67.55	-40.00	27.55	Vertical
2	5873	44.68	-44.91	32.37	-63.12	-40.00	23.12	Vertical
3	6906.5	44.49	-44.06	34.83	-60.00	-40.00	20.00	Vertical
4	8907	40.69	-41.22	36.56	-59.24	-40.00	19.24	Vertical
5	10393	37.71	-39.02	38.54	-58.03	-40.00	18.03	Vertical
6	13366.5	35.67	-36.50	39.91	-56.18	-40.00	16.18	Vertical

Test Band = LTE Band30-5M_ 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	4280	44.50	-45.59	30.07	-66.27	-40.00	26.27	Horizontal
2	5468.5	45.16	-45.26	32.24	-63.12	-40.00	23.12	Horizontal
3	6821.5	44.25	-44.15	34.68	-60.49	-40.00	20.49	Horizontal
4	8549	42.26	-41.48	36.77	-57.71	-40.00	17.71	Horizontal
5	10779	37.72	-38.46	38.58	-57.42	-40.00	17.42	Horizontal
6	13382	36.25	-36.41	39.93	-55.49	-40.00	15.49	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4283	44.36	-45.58	30.08	-66.40	-40.00	26.40	Vertical
2	5832.5	44.85	-44.82	32.37	-62.87	-40.00	22.87	Vertical
3	7410	43.19	-43.38	36.15	-59.31	-40.00	19.31	Vertical
4	8601.5	42.09	-41.34	36.74	-57.77	-40.00	17.77	Vertical
5	10718	37.37	-38.01	38.57	-57.33	-40.00	17.33	Vertical
6	12962	36.03	-37.25	39.39	-57.09	-40.00	17.09	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---