

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B4_1.4MHz_EIRP

Band: 4 / Bandwidth: 1.4MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	23.68	2.17	25.85	<=30	Pass
			2	23.39	2.17	25.56	<=30	Pass
			5	23.32	2.17	25.49	<=30	Pass
		3	0	23.46	2.17	25.63	<=30	Pass
			2	23.53	2.17	25.70	<=30	Pass
			3	23.49	2.17	25.66	<=30	Pass
		6	0	22.36	2.17	24.53	<=30	Pass
	1732.5	1	0	23.62	2.17	25.79	<=30	Pass
			2	23.69	2.17	25.86	<=30	Pass
			5	23.63	2.17	25.80	<=30	Pass
		3	0	23.79	2.17	25.96	<=30	Pass
			2	23.85	2.17	26.02	<=30	Pass
			3	23.79	2.17	25.96	<=30	Pass
		6	0	22.65	2.17	24.82	<=30	Pass
	1754.3	1	0	23.40	2.17	25.57	<=30	Pass
			2	23.47	2.17	25.64	<=30	Pass
			5	23.40	2.17	25.57	<=30	Pass
		3	0	23.60	2.17	25.77	<=30	Pass
			2	23.60	2.17	25.77	<=30	Pass
			3	23.51	2.17	25.68	<=30	Pass
		6	0	22.39	2.17	24.56	<=30	Pass
16QAM	1710.7	1	0	22.43	2.17	24.60	<=30	Pass
			2	22.50	2.17	24.67	<=30	Pass
			5	22.42	2.17	24.59	<=30	Pass
		3	0	22.61	2.17	24.78	<=30	Pass
			2	22.67	2.17	24.84	<=30	Pass
			3	22.59	2.17	24.76	<=30	Pass
		6	0	21.35	2.17	23.52	<=30	Pass
	1732.5	1	0	22.86	2.17	25.03	<=30	Pass
			2	22.94	2.17	25.11	<=30	Pass
			5	22.86	2.17	25.03	<=30	Pass
		3	0	22.96	2.17	25.13	<=30	Pass
			2	23.00	2.17	25.17	<=30	Pass
			3	22.94	2.17	25.11	<=30	Pass
		6	0	21.66	2.17	23.83	<=30	Pass
	1754.3	1	0	22.64	2.17	24.81	<=30	Pass
			2	22.71	2.17	24.88	<=30	Pass
			5	22.63	2.17	24.80	<=30	Pass
		3	0	22.71	2.17	24.88	<=30	Pass
			2	22.76	2.17	24.93	<=30	Pass
			3	22.67	2.17	24.84	<=30	Pass
		6	0	21.38	2.17	23.55	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTNV

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	1711.5	1	0	23.32	2.17	25.49	<=30	Pass	
			7	23.42	2.17	25.59	<=30	Pass	
			14	23.39	2.17	25.56	<=30	Pass	
		8	0	22.45	2.17	24.62	<=30	Pass	
			4	22.51	2.17	24.68	<=30	Pass	
			7	22.43	2.17	24.60	<=30	Pass	
		15	0	22.47	2.17	24.64	<=30	Pass	
		1732.5	1	0	23.62	2.17	25.79	<=30	Pass
				7	23.75	2.17	25.92	<=30	Pass
	14			23.61	2.17	25.78	<=30	Pass	
	8		0	22.72	2.17	24.89	<=30	Pass	
			4	22.77	2.17	24.94	<=30	Pass	
			7	22.71	2.17	24.88	<=30	Pass	
	15	0	22.77	2.17	24.94	<=30	Pass		
	1753.5	1	0	23.52	2.17	25.69	<=30	Pass	
			7	23.51	2.17	25.68	<=30	Pass	
			14	23.39	2.17	25.56	<=30	Pass	
		8	0	22.53	2.17	24.70	<=30	Pass	
			4	22.51	2.17	24.68	<=30	Pass	
			7	22.48	2.17	24.65	<=30	Pass	
		15	0	22.54	2.17	24.71	<=30	Pass	
16QAM		1711.5	1	0	22.58	2.17	24.75	<=30	Pass
				7	22.69	2.17	24.86	<=30	Pass
	14			22.56	2.17	24.73	<=30	Pass	
	8		0	21.50	2.17	23.67	<=30	Pass	
			4	21.54	2.17	23.71	<=30	Pass	
			7	21.49	2.17	23.66	<=30	Pass	
	15	0	21.54	2.17	23.71	<=30	Pass		
	1732.5	1	0	23.33	2.17	25.50	<=30	Pass	
			7	23.44	2.17	25.61	<=30	Pass	
			14	23.30	2.17	25.47	<=30	Pass	
		8	0	21.97	2.17	24.14	<=30	Pass	
			4	22.01	2.17	24.18	<=30	Pass	
			7	21.85	2.17	24.02	<=30	Pass	
	15	0	21.88	2.17	24.05	<=30	Pass		
	1753.5	1	0	22.71	2.17	24.88	<=30	Pass	
			7	22.81	2.17	24.98	<=30	Pass	
			14	22.61	2.17	24.78	<=30	Pass	
		8	0	21.56	2.17	23.73	<=30	Pass	
			4	21.60	2.17	23.77	<=30	Pass	
			7	21.53	2.17	23.70	<=30	Pass	
		15	0	21.61	2.17	23.78	<=30	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

1.1.3 B4_5MHz_EIRP

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	23.38	2.17	25.55	<=30	Pass
			13	23.48	2.17	25.65	<=30	Pass
			24	23.40	2.17	25.57	<=30	Pass
		12	0	22.52	2.17	24.69	<=30	Pass
			6	22.53	2.17	24.70	<=30	Pass
			13	22.49	2.17	24.66	<=30	Pass

		25	0	22.52	2.17	24.69	<=30	Pass
	1732.5	1	0	23.67	2.17	25.84	<=30	Pass
			13	23.74	2.17	25.91	<=30	Pass
			24	23.66	2.17	25.83	<=30	Pass
			0	22.78	2.17	24.95	<=30	Pass
		12	6	22.80	2.17	24.97	<=30	Pass
			13	22.77	2.17	24.94	<=30	Pass
			25	0	22.80	2.17	24.97	<=30
	1752.5	1	0	23.54	2.17	25.71	<=30	Pass
			13	23.58	2.17	25.75	<=30	Pass
			24	23.38	2.17	25.55	<=30	Pass
		12	0	22.61	2.17	24.78	<=30	Pass
			6	22.60	2.17	24.77	<=30	Pass
			13	22.54	2.17	24.71	<=30	Pass
		25	0	22.62	2.17	24.79	<=30	Pass
16QAM	1712.5	1	0	22.52	2.17	24.69	<=30	Pass
			13	22.65	2.17	24.82	<=30	Pass
			24	22.57	2.17	24.74	<=30	Pass
		12	0	21.57	2.17	23.74	<=30	Pass
			6	21.58	2.17	23.75	<=30	Pass
			13	21.55	2.17	23.72	<=30	Pass
		25	0	21.59	2.17	23.76	<=30	Pass
	1732.5	1	0	22.96	2.17	25.13	<=30	Pass
			13	23.09	2.17	25.26	<=30	Pass
			24	22.95	2.17	25.12	<=30	Pass
		12	0	21.86	2.17	24.03	<=30	Pass
			6	21.93	2.17	24.10	<=30	Pass
			13	21.83	2.17	24.00	<=30	Pass
		25	0	21.85	2.17	24.02	<=30	Pass
	1752.5	1	0	22.88	2.17	25.05	<=30	Pass
			13	22.91	2.17	25.08	<=30	Pass
			24	22.72	2.17	24.89	<=30	Pass
		12	0	21.72	2.17	23.89	<=30	Pass
			6	21.74	2.17	23.91	<=30	Pass
			13	21.69	2.17	23.86	<=30	Pass
		25	0	21.68	2.17	23.85	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	23.36	2.17	25.53	<=30	Pass
			25	23.34	2.17	25.51	<=30	Pass
			49	23.41	2.17	25.58	<=30	Pass
		25	0	22.51	2.17	24.68	<=30	Pass
			13	22.54	2.17	24.71	<=30	Pass
			25	22.53	2.17	24.70	<=30	Pass
		50	0	22.56	2.17	24.73	<=30	Pass
	1732.5	1	0	23.68	2.17	25.85	<=30	Pass
			25	23.71	2.17	25.88	<=30	Pass
			49	23.66	2.17	25.83	<=30	Pass
		25	0	22.78	2.17	24.95	<=30	Pass
			13	22.82	2.17	24.99	<=30	Pass
			25	22.78	2.17	24.95	<=30	Pass
		50	0	22.79	2.17	24.96	<=30	Pass

	1750	1	0	23.59	2.17	25.76	<=30	Pass		
			25	23.51	2.17	25.68	<=30	Pass		
			49	23.37	2.17	25.54	<=30	Pass		
		25	0	22.69	2.17	24.86	<=30	Pass		
			13	22.66	2.17	24.83	<=30	Pass		
			25	22.59	2.17	24.76	<=30	Pass		
		50	0	22.65	2.17	24.82	<=30	Pass		
		16QAM	1715	1	0	23.02	2.17	25.19	<=30	Pass
					25	23.07	2.17	25.24	<=30	Pass
49	23.08				2.17	25.25	<=30	Pass		
25	0			21.62	2.17	23.79	<=30	Pass		
	13			21.66	2.17	23.83	<=30	Pass		
	25			21.68	2.17	23.85	<=30	Pass		
50	0			21.60	2.17	23.77	<=30	Pass		
1732.5	1			0	22.76	2.17	24.93	<=30	Pass	
				25	22.75	2.17	24.92	<=30	Pass	
			49	22.74	2.17	24.91	<=30	Pass		
	25		0	21.96	2.17	24.13	<=30	Pass		
			13	21.98	2.17	24.15	<=30	Pass		
			25	21.93	2.17	24.10	<=30	Pass		
	50		0	21.91	2.17	24.08	<=30	Pass		
	1750		1	0	22.68	2.17	24.85	<=30	Pass	
				25	22.62	2.17	24.79	<=30	Pass	
49				22.47	2.17	24.64	<=30	Pass		
25			0	21.87	2.17	24.04	<=30	Pass		
			13	21.81	2.17	23.98	<=30	Pass		
			25	21.76	2.17	23.93	<=30	Pass		
50			0	21.77	2.17	23.94	<=30	Pass		
Note1: EIRP=Conducted Power+Antenna Gain										

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTNv								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	23.35	2.17	25.52	<=30	Pass
			38	23.41	2.17	25.58	<=30	Pass
			74	23.53	2.17	25.70	<=30	Pass
		36	0	22.49	2.17	24.66	<=30	Pass
			18	22.56	2.17	24.73	<=30	Pass
			39	22.62	2.17	24.79	<=30	Pass
		75	0	22.57	2.17	24.74	<=30	Pass
	1732.5	1	0	23.59	2.17	25.76	<=30	Pass
			38	23.64	2.17	25.81	<=30	Pass
			74	23.56	2.17	25.73	<=30	Pass
		36	0	22.73	2.17	24.90	<=30	Pass
			18	22.82	2.17	24.99	<=30	Pass
			39	22.76	2.17	24.93	<=30	Pass
		75	0	22.75	2.17	24.92	<=30	Pass
	1747.5	1	0	23.63	2.17	25.80	<=30	Pass
			38	23.58	2.17	25.75	<=30	Pass
			74	23.37	2.17	25.54	<=30	Pass
		36	0	22.79	2.17	24.96	<=30	Pass
			18	22.65	2.17	24.82	<=30	Pass
			39	22.55	2.17	24.72	<=30	Pass
		75	0	22.70	2.17	24.87	<=30	Pass
16QAM	1717.5	1	0	23.00	2.17	25.17	<=30	Pass

		36	38	23.10	2.17	25.27	<=30	Pass
			74	23.21	2.17	25.38	<=30	Pass
			0	21.54	2.17	23.71	<=30	Pass
			18	21.62	2.17	23.79	<=30	Pass
			39	21.65	2.17	23.82	<=30	Pass
		75	0	21.61	2.17	23.78	<=30	Pass
			0	23.31	2.17	25.48	<=30	Pass
			38	23.33	2.17	25.50	<=30	Pass
			74	23.26	2.17	25.43	<=30	Pass
			0	21.83	2.17	24.00	<=30	Pass
	1732.5	1	18	21.85	2.17	24.02	<=30	Pass
			39	21.85	2.17	24.02	<=30	Pass
			0	21.77	2.17	23.94	<=30	Pass
		36	0	22.94	2.17	25.11	<=30	Pass
			38	22.83	2.17	25.00	<=30	Pass
			74	22.61	2.17	24.78	<=30	Pass
			0	21.86	2.17	24.03	<=30	Pass
			18	21.75	2.17	23.92	<=30	Pass
			39	21.65	2.17	23.82	<=30	Pass
		75	0	21.83	2.17	24.00	<=30	Pass
			0	22.94	2.17	25.11	<=30	Pass
			38	22.83	2.17	25.00	<=30	Pass
			74	22.61	2.17	24.78	<=30	Pass
			0	21.86	2.17	24.03	<=30	Pass
			18	21.75	2.17	23.92	<=30	Pass
			39	21.65	2.17	23.82	<=30	Pass
			0	21.83	2.17	24.00	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	23.66	2.17	25.83	<=30	Pass
			50	23.50	2.17	25.67	<=30	Pass
			99	23.70	2.17	25.87	<=30	Pass
		50	0	22.54	2.17	24.71	<=30	Pass
			25	22.67	2.17	24.84	<=30	Pass
			50	22.71	2.17	24.88	<=30	Pass
		100	0	22.62	2.17	24.79	<=30	Pass
			0	23.61	2.17	25.78	<=30	Pass
			50	23.70	2.17	25.87	<=30	Pass
			99	23.62	2.17	25.79	<=30	Pass
	1732.5	1	0	22.85	2.17	25.02	<=30	Pass
			25	22.90	2.17	25.07	<=30	Pass
			50	22.81	2.17	24.98	<=30	Pass
		50	0	22.84	2.17	25.01	<=30	Pass
			0	23.68	2.17	25.85	<=30	Pass
			50	23.63	2.17	25.80	<=30	Pass
			99	23.48	2.17	25.65	<=30	Pass
		100	0	22.82	2.17	24.99	<=30	Pass
			25	22.87	2.17	25.04	<=30	Pass
			50	22.71	2.17	24.88	<=30	Pass
			0	22.84	2.17	25.01	<=30	Pass
16QAM	1720	1	0	22.71	2.17	24.88	<=30	Pass
			50	22.85	2.17	25.02	<=30	Pass
			99	22.99	2.17	25.16	<=30	Pass
		50	0	21.63	2.17	23.80	<=30	Pass
			25	21.80	2.17	23.97	<=30	Pass
			50	21.82	2.17	23.99	<=30	Pass
		100	0	21.72	2.17	23.89	<=30	Pass
			0	23.28	2.17	25.45	<=30	Pass
			50	23.36	2.17	25.53	<=30	Pass
			0	22.71	2.17	24.88	<=30	Pass

			99	23.27	2.17	25.44	<=30	Pass
		50	0	21.86	2.17	24.03	<=30	Pass
			25	21.94	2.17	24.11	<=30	Pass
			50	21.87	2.17	24.04	<=30	Pass
		100	0	21.90	2.17	24.07	<=30	Pass
	1745	1	0	22.95	2.17	25.12	<=30	Pass
			50	22.87	2.17	25.04	<=30	Pass
			99	22.75	2.17	24.92	<=30	Pass
		50	0	21.88	2.17	24.05	<=30	Pass
			25	21.87	2.17	24.04	<=30	Pass
			50	21.69	2.17	23.86	<=30	Pass
		100	0	21.79	2.17	23.96	<=30	Pass
		Note1: EIRP=Conducted Power+Antenna Gain						

2. Field Strength of Spurious Radiation

LTE Band 4-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3422.0	-59.69	-13	-46.69	-64.31	3.36	7.98	Horizontal	Pass
5133.0	-62.61	-13	-49.61	-68.22	4.61	10.22	Horizontal	Pass
6844.0	-60.84	-13	-47.84	-66.87	4.9	10.93	Horizontal	Pass
3422.0	-51.39	-13	-38.39	-56.01	3.36	7.98	Vertical	Pass
5133.0	-62.64	-13	-49.64	-68.25	4.61	10.22	Vertical	Pass
6844.0	-60.4	-13	-47.4	-66.43	4.9	10.93	Vertical	Pass

LTE Band 4-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3447.0	-57.91	-13	-44.91	-62.58	3.37	8.04	Horizontal	Pass
5170.5	-62.68	-13	-49.68	-68.31	4.62	10.25	Horizontal	Pass
6894.0	-61.64	-13	-48.64	-67.73	4.9	10.99	Horizontal	Pass
3447.0	-57.58	-13	-44.58	-62.25	3.37	8.04	Vertical	Pass
5170.5	-62.89	-13	-49.89	-68.52	4.62	10.25	Vertical	Pass
6894.0	-61.06	-13	-48.06	-67.15	4.9	10.99	Vertical	Pass

LTE Band 4-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3472.0	-59.09	-13	-46.09	-63.8	3.39	8.1	Horizontal	Pass
5208.0	-63.06	-13	-50.06	-68.69	4.64	10.27	Horizontal	Pass
6944.0	-60.89	-13	-47.89	-67.04	4.91	11.06	Horizontal	Pass
3472.0	-55.96	-13	-42.96	-60.67	3.39	8.1	Vertical	Pass
5208.0	-63.35	-13	-50.35	-68.98	4.64	10.27	Vertical	Pass
6944.0	-60.85	-13	-47.85	-67.0	4.91	11.06	Vertical	Pass