



LTE Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3705.41	-34.23	12.60	12.93	-34.56	-13.00	-21.56	H
5557.50	-34.91	13.10	17.11	-38.92	-13.00	-25.92	H
7409.96	-32.55	11.50	22.20	-43.25	-13.00	-30.25	H
3705.41	-35.56	12.60	12.93	-35.89	-13.00	-22.89	V
5557.50	-34.93	13.10	17.11	-38.94	-13.00	-25.94	V
7409.96	-32.92	11.50	22.20	-43.62	-13.00	-30.62	V
LTE Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3764.88	-34.08	12.60	12.93	-34.41	-13.00	-21.41	H
5647.29	-34.95	13.10	17.11	-38.96	-13.00	-25.96	H
7530.22	-33.45	11.50	22.20	-44.15	-13.00	-31.15	H
3764.88	-35.62	12.60	12.93	-35.95	-13.00	-22.95	V
5647.29	-34.35	13.10	17.11	-38.36	-13.00	-25.36	V
7530.22	-32.68	11.50	22.20	-43.38	-13.00	-30.38	V
LTE Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3825.34	-34.47	12.60	12.93	-34.80	-13.00	-21.80	H
5737.23	-34.30	13.10	17.11	-38.31	-13.00	-25.31	H
7650.68	-32.25	11.50	22.20	-42.95	-13.00	-29.95	H
3825.34	-35.97	12.60	12.93	-36.30	-13.00	-23.30	V
5737.23	-33.91	13.10	17.11	-37.92	-13.00	-24.92	V
7650.68	-31.91	11.50	22.20	-42.61	-13.00	-29.61	V



LTE Band 25 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3710.41	-34.64	12.60	12.93	-34.97	-13.00	-21.97	H
5565.12	-35.37	13.10	17.11	-39.38	-13.00	-26.38	H
7420.08	-32.44	11.50	22.20	-43.14	-13.00	-30.14	H
3710.41	-34.82	12.60	12.93	-35.15	-13.00	-22.15	V
5565.12	-34.17	13.10	17.11	-38.18	-13.00	-25.18	V
7420.08	-32.03	11.50	22.20	-42.73	-13.00	-29.73	V

LTE Band 25 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3765.13	-33.89	12.60	12.93	-34.22	-13.00	-21.22	H
5647.30	-34.49	13.10	17.11	-38.50	-13.00	-25.50	H
7529.95	-32.97	11.50	22.20	-43.67	-13.00	-30.67	H
3765.13	-35.42	12.60	12.93	-35.75	-13.00	-22.75	V
5647.30	-34.87	13.10	17.11	-38.88	-13.00	-25.88	V
7529.95	-33.03	11.50	22.20	-43.73	-13.00	-30.73	V

LTE Band 25 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3820.11	-33.85	12.60	12.93	-34.18	-13.00	-21.18	H
5729.66	-34.31	13.10	17.11	-38.32	-13.00	-25.32	H
7640.03	-32.97	11.50	22.20	-43.67	-13.00	-30.67	H
3820.11	-35.81	12.60	12.93	-36.14	-13.00	-23.14	V
5729.66	-34.52	13.10	17.11	-38.53	-13.00	-25.53	V
7640.03	-32.55	11.50	22.20	-43.25	-13.00	-30.25	V



LTE Band 25 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3715.14	-34.31	12.60	12.93	-34.64	-13.00	-21.64	H
5572.46	-35.03	13.10	17.11	-39.04	-13.00	-26.04	H
7430.73	-33.43	11.50	22.20	-44.13	-13.00	-31.13	H
3715.14	-34.84	12.60	12.93	-35.17	-13.00	-22.17	V
5572.46	-34.47	13.10	17.11	-38.48	-13.00	-25.48	V
7430.73	-32.83	11.50	22.20	-43.53	-13.00	-30.53	V

LTE Band 25 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3765.21	-33.98	12.60	12.93	-34.31	-13.00	-21.31	H
5647.17	-34.43	13.10	17.11	-38.44	-13.00	-25.44	H
7429.95	-33.16	11.50	22.20	-43.86	-13.00	-30.86	H
3765.21	-34.81	12.60	12.93	-35.14	-13.00	-22.14	V
5647.17	-34.72	13.10	17.11	-38.73	-13.00	-25.73	V
7429.95	-31.72	11.50	22.20	-42.42	-13.00	-29.42	V

LTE Band 25 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3815.67	-34.09	12.60	12.93	-34.42	-13.00	-21.42	H
5722.39	-34.12	13.10	17.11	-38.13	-13.00	-25.13	H
7630.29	-33.23	11.50	22.20	-43.93	-13.00	-30.93	H
3815.67	-35.20	12.60	12.93	-35.53	-13.00	-22.53	V
5722.39	-35.01	13.10	17.11	-39.02	-13.00	-26.02	V
7630.29	-32.86	11.50	22.20	-43.56	-13.00	-30.56	V



LTE Band 25 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3720.25	-33.73	12.60	12.93	-34.06	-13.00	-21.06	H
5580.18	-34.69	13.10	17.11	-38.70	-13.00	-25.70	H
7440.10	-32.78	11.50	22.20	-43.48	-13.00	-30.48	H
3720.25	-34.78	12.60	12.93	-35.11	-13.00	-22.11	V
5580.18	-34.90	13.10	17.11	-38.91	-13.00	-25.91	V
7440.10	-32.81	11.50	22.20	-43.51	-13.00	-30.51	V

LTE Band 25 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3764.88	-34.12	12.60	12.93	-34.45	-13.00	-21.45	H
5646.88	-34.04	13.10	17.11	-38.05	-13.00	-25.05	H
7529.80	-33.61	11.50	22.20	-44.31	-13.00	-31.31	H
3764.88	-34.61	12.60	12.93	-34.94	-13.00	-21.94	V
5646.88	-34.70	13.10	17.11	-38.71	-13.00	-25.71	V
7529.80	-31.90	11.50	22.20	-42.60	-13.00	-29.60	V

LTE Band 25 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3810.28	-33.90	12.60	12.93	-34.23	-13.00	-21.23	H
5715.28	-35.27	13.10	17.11	-39.28	-13.00	-26.28	H
7620.22	-33.64	11.50	22.20	-44.34	-13.00	-31.34	H
3810.28	-34.95	12.60	12.93	-35.28	-13.00	-22.28	V
5715.28	-34.48	13.10	17.11	-38.49	-13.00	-25.49	V
7620.22	-32.57	11.50	22.20	-43.27	-13.00	-30.27	V



LTE Band 26 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1629.22	-33.85	12.90	12.56	-33.51	-13.00	-20.51	H
2444.27	-35.42	13.10	12.46	-34.78	-13.00	-21.78	H
3258.47	-32.66	12.33	21.13	-41.46	-13.00	-28.46	H
1629.22	-34.60	12.90	12.76	-34.46	-13.00	-21.46	V
2444.27	-34.23	13.10	16.32	-37.45	-13.00	-24.45	V
3258.47	-32.72	12.33	21.13	-41.52	-13.00	-28.52	V
LTE Band 26 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1662.97	-34.58	12.80	12.56	-34.34	-13.00	-21.34	H
2494.24	-34.02	13.10	12.46	-33.38	-13.00	-20.38	H
3325.94	-33.62	12.33	21.13	-42.42	-13.00	-29.42	H
1662.97	-34.81	12.80	12.76	-34.77	-13.00	-21.77	V
2494.24	-34.33	13.10	16.32	-37.55	-13.00	-24.55	V
3325.94	-33.16	12.33	21.13	-41.96	-13.00	-28.96	V
LTE Band 26 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1696.47	-33.61	12.61	12.56	-33.56	-13.00	-20.56	H
2544.46	-34.52	13.12	12.46	-33.86	-13.00	-20.86	H
3392.81	-32.60	12.32	21.13	-41.41	-13.00	-28.41	H
1696.47	-35.39	12.61	12.76	-35.54	-13.00	-22.54	V
2544.46	-34.68	13.12	16.32	-37.88	-13.00	-24.88	V
3392.81	-32.08	12.32	21.13	-40.89	-13.00	-27.89	V



LTE Band 26 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1631.01	-34.83	12.90	12.56	-34.49	-13.00	-21.49	H
2446.27	-34.56	13.10	12.46	-33.92	-13.00	-20.92	H
3262.91	-33.60	12.33	21.13	-42.40	-13.00	-29.40	H
1631.01	-35.25	12.90	12.76	-35.11	-13.00	-22.11	V
2446.27	-33.96	13.10	16.32	-37.18	-13.00	-24.18	V
3262.91	-32.82	12.33	21.13	-41.62	-13.00	-28.62	V
LTE Band 26 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1663.03	-33.83	12.80	12.56	-33.59	-13.00	-20.59	H
2494.01	-35.46	13.10	12.46	-34.82	-13.00	-21.82	H
3325.82	-33.24	12.33	21.13	-42.04	-13.00	-29.04	H
1663.03	-34.63	12.80	12.76	-34.59	-13.00	-21.59	V
2494.01	-34.78	13.10	16.32	-38.00	-13.00	-25.00	V
3325.82	-32.06	12.33	21.13	-40.86	-13.00	-27.86	V
LTE Band 26 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1695.75	-34.42	12.61	12.56	-34.37	-13.00	-21.37	H
2542.18	-35.08	13.12	12.46	-34.42	-13.00	-21.42	H
3390.32	-33.40	12.32	21.13	-42.21	-13.00	-29.21	H
1695.75	-35.42	12.61	12.76	-35.57	-13.00	-22.57	V
2542.18	-34.84	13.12	16.32	-38.04	-13.00	-25.04	V
3390.32	-33.05	12.32	21.13	-41.86	-13.00	-28.86	V



LTE Band 26 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1633.29	-33.71	12.90	12.56	-33.37	-13.00	-20.37	H
2499.46	-34.27	13.10	12.46	-33.63	-13.00	-20.63	H
3266.82	-33.09	12.33	21.13	-41.89	-13.00	-28.89	H
1633.29	-35.86	12.90	12.76	-35.72	-13.00	-22.72	V
2499.46	-34.06	13.10	16.32	-37.28	-13.00	-24.28	V
3266.82	-33.05	12.33	21.13	-41.85	-13.00	-28.85	V
LTE Band 26 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1663.14	-33.52	12.80	12.56	-33.28	-13.00	-20.28	H
2494.10	-34.25	13.10	12.46	-33.61	-13.00	-20.61	H
3325.97	-32.56	12.33	21.13	-41.36	-13.00	-28.36	H
1663.14	-35.27	12.80	12.76	-35.23	-13.00	-22.23	V
2494.10	-33.78	13.10	16.32	-37.00	-13.00	-24.00	V
3325.97	-32.00	12.33	21.13	-40.80	-13.00	-27.80	V
LTE Band 26 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1693.81	-34.74	12.61	12.56	-34.69	-13.00	-21.69	H
2539.18	-35.04	13.12	12.46	-34.38	-13.00	-21.38	H
3386.27	-32.52	12.32	21.13	-41.33	-13.00	-28.33	H
1693.81	-35.98	12.61	12.76	-36.13	-13.00	-23.13	V
2539.18	-34.40	13.12	16.32	-37.60	-13.00	-24.60	V
3386.27	-32.67	12.32	21.13	-41.48	-13.00	-28.48	V



LTE Band 26 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1640.45	-34.39	12.90	12.56	-34.05	-13.00	-21.05	H
2460.36	-35.21	13.10	12.46	-34.57	-13.00	-21.57	H
3280.89	-32.64	12.33	21.13	-41.44	-13.00	-28.44	H
1640.45	-35.60	12.90	12.76	-35.46	-13.00	-22.46	V
2460.36	-34.40	13.10	16.32	-37.62	-13.00	-24.62	V
3280.89	-32.83	12.33	21.13	-41.63	-13.00	-28.63	V
LTE Band 26 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1662.83	-34.61	12.80	12.56	-34.37	-13.00	-21.37	H
2494.15	-34.44	13.10	12.46	-33.80	-13.00	-20.80	H
3326.05	-33.42	12.33	21.13	-42.22	-13.00	-29.22	H
1662.83	-35.07	12.80	12.76	-35.03	-13.00	-22.03	V
2494.15	-34.54	13.10	16.32	-37.76	-13.00	-24.76	V
3326.05	-33.02	12.33	21.13	-41.82	-13.00	-28.82	V
LTE Band 26 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1688.52	-33.71	12.61	12.56	-33.66	-13.00	-20.66	H
2532.02	-34.16	13.12	12.46	-33.50	-13.00	-20.50	H
3376.22	-32.56	12.32	21.13	-41.37	-13.00	-28.37	H
1688.52	-35.10	12.61	12.76	-35.25	-13.00	-22.25	V
2532.02	-35.07	13.12	16.32	-38.27	-13.00	-25.27	V
3376.22	-32.23	12.32	21.13	-41.04	-13.00	-28.04	V



LTE Band 26 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1645.18	-34.32	12.90	12.56	-33.98	-13.00	-20.98	H
2467.26	-34.93	13.10	12.46	-34.29	-13.00	-21.29	H
3290.50	-32.95	12.33	21.13	-41.75	-13.00	-28.75	H
1645.18	-34.76	12.90	12.76	-34.62	-13.00	-21.62	V
2467.26	-34.41	13.10	16.32	-37.63	-13.00	-24.63	V
3290.50	-31.81	12.33	21.13	-40.61	-13.00	-27.61	V

LTE Band 26 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1663.00	-34.22	12.80	12.56	-33.98	-13.00	-20.98	H
2494.13	-35.17	13.10	12.46	-34.53	-13.00	-21.53	H
3326.05	-33.17	12.33	21.13	-41.97	-13.00	-28.97	H
1663.00	-35.23	12.80	12.76	-35.19	-13.00	-22.19	V
2494.13	-33.80	13.10	16.32	-37.02	-13.00	-24.02	V
3326.05	-31.94	12.33	21.13	-40.74	-13.00	-27.74	V

LTE Band 26 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1683.55	-34.82	12.61	12.56	-34.77	-13.00	-21.77	H
2524.44	-34.70	13.12	12.46	-34.04	-13.00	-21.04	H
3366.24	-32.34	12.32	21.13	-41.15	-13.00	-28.15	H
1683.55	-34.64	12.61	12.76	-34.79	-13.00	-21.79	V
2524.44	-34.02	13.12	16.32	-37.22	-13.00	-24.22	V
3366.24	-32.78	12.32	21.13	-41.59	-13.00	-28.59	V


LTE Band 26(Part 90)

LTE Band 26 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1637.00	-34.28	12.90	12.56	-33.94	-13.00	-20.94	H
2456.19	-35.46	13.10	12.46	-34.82	-13.00	-21.82	H
3275.56	-33.31	12.33	21.13	-42.11	-13.00	-29.11	H
1637.00	-35.17	12.90	12.76	-35.03	-13.00	-22.03	V
2456.19	-34.31	13.10	16.32	-37.53	-13.00	-24.53	V
3275.56	-32.82	12.33	21.13	-41.62	-13.00	-28.62	V
LTE Band 26 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1637.02	-33.82	12.90	12.56	-33.48	-13.00	-20.48	H
2455.28	-34.77	13.10	12.46	-34.13	-13.00	-21.13	H
3274.92	-33.04	12.33	21.13	-41.84	-13.00	-28.84	H
1637.02	-35.53	12.90	12.76	-35.39	-13.00	-22.39	V
2455.28	-35.07	13.10	16.32	-38.29	-13.00	-25.29	V
3274.92	-32.13	12.33	21.13	-40.93	-13.00	-27.93	V
LTE Band 26 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1638.06	-34.81	12.90	12.56	-34.47	-13.00	-21.47	H
2457.41	-34.09	13.10	12.46	-33.45	-13.00	-20.45	H
3276.55	-32.70	12.33	21.13	-41.50	-13.00	-28.50	H
1638.06	-35.71	12.90	12.76	-35.57	-13.00	-22.57	V
2457.41	-35.24	13.10	16.32	-38.46	-13.00	-25.46	V
3276.55	-33.08	12.33	21.13	-41.88	-13.00	-28.88	V



LTE Band 26 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1638.01	-33.78	12.90	12.56	-33.44	-13.00	-20.44	H
2457.31	-35.02	13.10	12.46	-34.38	-13.00	-21.38	H
3276.52	-32.33	12.33	21.13	-41.13	-13.00	-28.13	H
1638.01	-35.12	12.90	12.76	-34.98	-13.00	-21.98	V
2457.31	-34.02	13.10	16.32	-37.24	-13.00	-24.24	V
3276.52	-32.65	12.33	21.13	-41.45	-13.00	-28.45	V





LTE Band 41 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
N/A	N/A	N/A	N/A	(dBm)	(dBm)	(dBm)	N/A
5115.17	-34.22	12.66	12.54	-34.10	-25.00	-9.10	H
7672.52	-34.57	11.46	12.57	-35.68	-25.00	-10.68	H
10230.32	-33.53	12.79	21.23	-41.97	-25.00	-16.97	H
5115.17	-35.88	12.66	12.54	-35.76	-25.00	-10.76	V
7672.52	-34.25	11.46	12.57	-35.36	-25.00	-10.36	V
10230.32	-33.20	12.79	21.23	-41.64	-25.00	-16.64	V
LTE Band 41 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
N/A	N/A	N/A	N/A	(dBm)	(dBm)	(dBm)	N/A
5210.09	-33.94	12.72	12.55	-33.77	-25.00	-8.77	H
7814.96	-34.49	11.46	12.57	-35.60	-25.00	-10.60	H
10420.18	-33.01	12.09	21.25	-42.17	-25.00	-17.17	H
5210.09	-35.27	12.80	12.55	-35.02	-25.00	-10.02	V
7814.96	-34.53	13.10	12.57	-34.00	-25.00	-9.00	V
10420.18	-32.66	12.33	21.25	-41.58	-25.00	-16.58	V
LTE Band 41 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
N/A	N/A	N/A	N/A	(dBm)	(dBm)	(dBm)	N/A
5304.92	-34.18	12.76	12.57	-33.99	-25.00	-8.99	H
7957.49	-34.96	11.45	12.58	-36.09	-25.00	-11.09	H
10609.99	-32.53	12.28	21.27	-41.52	-25.00	-16.52	H
5304.92	-35.77	12.76	12.57	-35.58	-25.00	-10.58	V
7957.49	-33.85	11.45	12.58	-34.98	-25.00	-9.98	V
10609.99	-31.79	12.28	21.27	-40.78	-25.00	-15.78	V



LTE Band 41 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
5120.54	-33.59	12.66	12.54	-33.47	-25.00	-8.47	H
7680.44	-34.29	11.46	12.57	-35.40	-25.00	-10.40	H
10240.44	-33.31	12.79	21.23	-41.75	-25.00	-16.75	H
5120.54	-35.32	12.66	12.54	-35.20	-25.00	-10.20	V
7680.44	-34.57	11.46	12.57	-35.68	-25.00	-10.68	V
10240.44	-32.32	12.79	21.23	-40.76	-25.00	-15.76	V
LTE Band 41 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
5210.09	-34.50	12.72	12.55	-34.33	-25.00	-9.33	H
7815.18	-35.11	11.46	12.57	-36.22	-25.00	-11.22	H
10419.95	-32.31	12.09	21.25	-41.47	-25.00	-16.47	H
5210.09	-35.40	12.80	12.55	-35.15	-25.00	-10.15	V
7815.18	-34.93	13.10	12.57	-34.40	-25.00	-9.40	V
10419.95	-32.02	12.33	21.25	-40.94	-25.00	-15.94	V
LTE Band 41 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
5300.17	-34.03	12.76	12.57	-33.84	-25.00	-8.84	H
7950.76	-35.07	11.45	12.58	-36.20	-25.00	-11.20	H
10600.05	-33.34	12.28	21.27	-42.33	-25.00	-17.33	H
5300.17	-35.56	12.76	12.57	-35.37	-25.00	-10.37	V
7950.76	-34.64	11.45	12.58	-35.77	-25.00	-10.77	V
10600.05	-33.03	12.28	21.27	-42.02	-25.00	-17.02	V



LTE Band 41 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
5125.06	-33.71	12.66	12.54	-33.59	-25.00	-8.59	H
7687.53	-35.27	11.46	12.57	-36.38	-25.00	-11.38	H
10250.68	-32.83	12.79	21.23	-41.27	-25.00	-16.27	H
5125.06	-35.03	12.66	12.54	-34.91	-25.00	-9.91	V
7687.53	-34.89	11.46	12.57	-36.00	-25.00	-11.00	V
10250.68	-32.23	12.79	21.23	-40.67	-25.00	-15.67	V
LTE Band 41 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
5210.31	-34.88	12.72	12.55	-34.71	-25.00	-9.71	H
7814.96	-34.99	11.46	12.57	-36.10	-25.00	-11.10	H
10419.88	-33.35	12.09	21.25	-42.51	-25.00	-17.51	H
5210.31	-35.14	12.80	12.55	-34.89	-25.00	-9.89	V
7814.96	-35.16	13.10	12.57	-34.63	-25.00	-9.63	V
10419.88	-31.81	12.33	21.25	-40.73	-25.00	-15.73	V
LTE Band 41 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
5295.81	-33.55	12.76	12.57	-33.36	-25.00	-8.36	H
7942.16	-34.51	11.45	12.58	-35.64	-25.00	-10.64	H
10590.30	-32.54	12.28	21.27	-41.53	-25.00	-16.53	H
5295.81	-36.01	12.76	12.57	-35.82	-25.00	-10.82	V
7942.16	-35.25	11.45	12.58	-36.38	-25.00	-11.38	V
10590.30	-32.57	12.28	21.27	-41.56	-25.00	-16.56	V



LTE Band 41 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
5130.13	-33.96	12.66	12.54	-33.84	-25.00	-8.84	H
7695.52	-34.07	11.46	12.57	-35.18	-25.00	-10.18	H
10260.11	-32.46	12.79	21.23	-40.90	-25.00	-15.90	H
5130.13	-34.74	12.66	12.54	-34.62	-25.00	-9.62	V
7695.52	-35.09	11.46	12.57	-36.20	-25.00	-11.20	V
10260.11	-32.81	12.79	21.23	-41.25	-25.00	-16.25	V

LTE Band 41 /20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
5210.34	-34.19	12.72	12.55	-34.02	-25.00	-9.02	H
7815.37	-34.08	11.46	12.57	-35.19	-25.00	-10.19	H
10420.04	-32.90	12.09	21.25	-42.06	-25.00	-17.06	H
5210.34	-35.81	12.80	12.55	-35.56	-25.00	-10.56	V
7815.37	-35.06	13.10	12.57	-34.53	-25.00	-9.53	V
10420.04	-32.07	12.33	21.25	-40.99	-25.00	-15.99	V

LTE Band 41 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
5289.73	-34.68	12.76	12.57	-34.49	-25.00	-9.49	H
7935.44	-34.60	11.45	12.58	-35.73	-25.00	-10.73	H
10580.05	-32.97	12.28	21.27	-41.96	-25.00	-16.96	H
5289.73	-35.79	12.76	12.57	-35.60	-25.00	-10.60	V
7935.44	-33.94	11.45	12.58	-35.07	-25.00	-10.07	V
10580.05	-32.81	12.28	21.27	-41.80	-25.00	-16.80	V

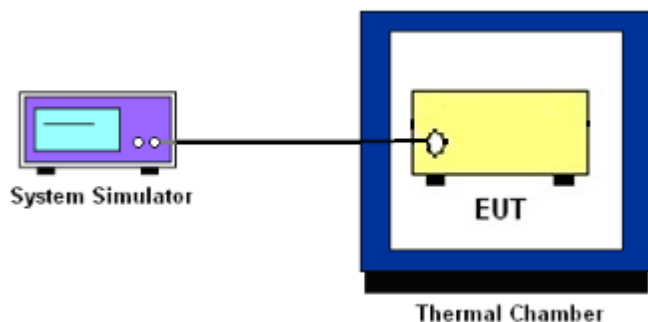
10. FREQUENCY STABILITY

10.1 DESCRIPTION OF FREQUENCY STABILITY MEASUREMENT

10.1.1 MEASUREMENT METHOD

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

10.1.2 TEST SETUP



10.1.3 TEST PROCEDURES FOR TEMPERATURE VARIATION

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

10.1.4 TEST PROCEDURES FOR VOLTAGE VARIATION

1. The testing follows FCC KDB 971168 D01v01r03 Section 9.0.
2. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.



10.1.5 TEST RESULTS

LTE Band 2 (QPSK) / 1880MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	28.35	0.015	2.5ppm	PASS
40		30.98	0.016		
30		28.20	0.015		
20		30.68	0.016		
10		23.72	0.013		
0		12.17	0.006		
-10		22.40	0.012		
-20		18.87	0.010		
-30		22.95	0.012		
25	Maximum Voltage	28.38	0.015		
25	BEP	35.57	0.019		

LTE Band 2 (QPSK) / 1880MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	26.55	0.014	2.5ppm	PASS
40		24.95	0.013		
30		20.10	0.011		
20		25.82	0.014		
10		24.34	0.013		
0		23.76	0.013		
-10		17.02	0.009		
-20		35.30	0.019		
-30		16.53	0.009		
25	Maximum Voltage	20.06	0.011		
25	BEP	32.82	0.017		



LTE Band 4 (QPSK) / 1733MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	23.58	0.014	2.5ppm	PASS
40		26.46	0.015		
30		23.30	0.013		
20		19.79	0.011		
10		26.57	0.015		
0		32.23	0.019		
-10		29.40	0.017		
-20		35.77	0.021		
-30		28.74	0.017		
25	Maximum Voltage	31.26	0.018		
25	BEP	34.82	0.020		

LTE Band 4 (QPSK) / 1733MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	24.56	0.014	2.5ppm	PASS
40		23.44	0.014		
30		24.39	0.014		
20		11.96	0.007		
10		32.14	0.019		
0		20.81	0.012		
-10		13.74	0.008		
-20		11.65	0.007		
-30		13.50	0.008		
25	Maximum Voltage	19.61	0.011		
25	BEP	29.60	0.017		



LTE Band 5 (QPSK) / 836.5MHz / BW5M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	22.69	0.032	2.5ppm	PASS
40		17.27	0.024		
30		18.27	0.026		
20		19.63	0.028		
10		11.70	0.016		
0		16.57	0.023		
-10		23.19	0.003		
-20		14.99	0.021		
-30		13.60	0.019		
25	Maximum Voltage	22.11	0.031		
25	BEP	27.72	0.039		

LTE Band 5 (QPSK) / 836.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	29.65	0.042	2.5ppm	PASS
40		31.45	0.044		
30		25.02	0.035		
20		28.13	0.040		
10		16.66	0.023		
0		13.35	0.019		
-10		12.20	0.002		
-20		14.81	0.021		
-30		26.87	0.038		
25	Maximum Voltage	21.07	0.030		
25	BEP	23.16	0.033		



LTE Band 12 (QPSK) / 707.5MHz / BW5M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	14.49	0.020	2.5ppm	PASS
40		32.84	0.046		
30		34.18	0.048		
20		31.91	0.045		
10		35.75	0.050		
0		15.67	0.022		
-10		32.43	0.005		
-20		16.50	0.023		
-30		33.21	0.047		
25	Maximum Voltage	34.56	0.049		
25	BEP	31.87	0.045		

LTE Band 12 (QPSK) / 707.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	21.10	0.030	2.5ppm	PASS
40		28.19	0.040		
30		26.00	0.037		
20		20.64	0.029		
10		24.64	0.035		
0		29.05	0.041		
-10		22.43	0.003		
-20		13.82	0.019		
-30		13.90	0.020		
25	Maximum Voltage	20.87	0.029		
25	BEP	32.74	0.046		



LTE Band 13 (QPSK) / 782MHz / BW5M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	24.18	0.034	2.5ppm	PASS
40		26.94	0.038		
30		26.11	0.037		
20		26.50	0.037		
10		11.64	0.016		
0		25.74	0.036		
-10		31.97	0.005		
-20		35.85	0.050		
-30		12.07	0.017		
25	Maximum Voltage	24.47	0.034		
25	BEP	26.38	0.037		

LTE Band 13 (QPSK) / 782MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	25.77	0.036	2.5ppm	PASS
40		13.31	0.019		
30		17.93	0.025		
20		18.37	0.026		
10		18.91	0.027		
0		27.84	0.039		
-10		21.70	0.003		
-20		13.66	0.019		
-30		18.77	0.026		
25	Maximum Voltage	16.15	0.023		
25	BEP	20.18	0.028		



LTE Band 17 (QPSK) / 710MHz / BW5M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	11.63	0.016	2.5ppm	PASS
40		12.19	0.017		
30		30.49	0.043		
20		31.19	0.044		
10		28.34	0.040		
0		33.44	0.047		
-10		14.67	0.002		
-20		23.13	0.033		
-30		12.43	0.018		
25	Maximum Voltage	22.31	0.031		
25	BEP	24.04	0.034		

LTE Band 17 (QPSK) / 710MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	33.29	0.047	2.5ppm	PASS
40		12.00	0.017		
30		14.46	0.020		
20		23.82	0.034		
10		29.28	0.041		
0		25.40	0.036		
-10		33.60	0.005		
-20		17.09	0.024		
-30		15.45	0.022		
25	Maximum Voltage	27.10	0.038		
25	BEP	12.88	0.018		



LTE Band 25 (QPSK) / 1880MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	13.32	0.007	2.5ppm	PASS
40		34.57	0.018		
30		31.41	0.017		
20		13.82	0.007		
10		19.77	0.011		
0		17.29	0.009		
-10		28.72	0.015		
-20		25.18	0.013		
-30		35.55	0.019		
25	Maximum Voltage	14.46	0.008		
25	BEP	33.33	0.018		

LTE Band 25 (QPSK) / 1880MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	18.31	0.010	2.5ppm	PASS
40		28.57	0.015		
30		25.59	0.014		
20		14.47	0.008		
10		35.47	0.019		
0		34.30	0.018		
-10		21.62	0.012		
-20		13.79	0.007		
-30		19.88	0.011		
25	Maximum Voltage	15.91	0.008		
25	BEP	13.04	0.007		



LTE Band 26 (QPSK) / 831.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	20.28	0.012	2.5ppm	PASS
40		28.07	0.016		
30		17.96	0.010		
20		11.55	0.007		
10		25.62	0.015		
0		18.84	0.011		
-10		29.64	0.017		
-20		26.60	0.015		
-30		17.27	0.010		
25	Maximum Voltage	30.92	0.018		
25	BEP	15.27	0.009		

LTE Band 26 (QPSK) / 831.5MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	24.97	0.014	2.5ppm	PASS
40		21.71	0.013		
30		26.38	0.015		
20		32.09	0.019		
10		15.50	0.009		
0		17.13	0.010		
-10		17.56	0.010		
-20		16.79	0.010		
-30		30.21	0.017		
25	Maximum Voltage	35.97	0.021		
25	BEP	31.97	0.018		



LTE Band 26(Part 90) (QPSK) / 819MHz / BW5M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	14.49	0.008	2.5ppm	PASS
40		16.13	0.009		
30		12.61	0.007		
20		32.24	0.019		
10		17.16	0.010		
0		15.44	0.009		
-10		13.12	0.008		
-20		19.73	0.011		
-30		33.26	0.019		
25	Maximum Voltage	26.04	0.015		
25	BEP	15.34	0.009		

LTE Band 26(Part 90) (QPSK) / 819MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	34.89	0.020	2.5ppm	PASS
40		28.90	0.017		
30		17.57	0.010		
20		31.90	0.018		
10		31.27	0.018		
0		33.81	0.020		
-10		30.62	0.018		
-20		23.13	0.013		
-30		11.96	0.007		
25	Maximum Voltage	23.57	0.014		
25	BEP	33.78	0.019		



LTE Band 41 (QPSK) / 2605MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	21.93	0.009	2.5ppm	PASS
40		23.75	0.009		
30		13.14	0.005		
20		15.43	0.006		
10		15.45	0.006		
0		30.16	0.012		
-10		26.20	0.010		
-20		30.22	0.012		
-30		12.47	0.005		
25	Maximum Voltage	17.76	0.007		
25	BEP	23.54	0.009		

LTE Band 41 (QPSK) / 2605MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	19.14	0.008	2.5ppm	PASS
40		36.39	0.014		
30		18.13	0.007		
20		17.95	0.007		
10		26.61	0.010		
0		24.99	0.010		
-10		34.65	0.014		
-20		32.52	0.013		
-30		16.80	0.007		
25	Maximum Voltage	14.90	0.006		
25	BEP	17.97	0.007		



APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※END OF THE REPORT※※※※

