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**Test Band = LTE Band 4\_ TM1**

**Test Channel = High Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	44.59	-46.27	29.50	-67.44	-13.00	54.44	201	342	Horizontal
2	5208.2700	41.81	-45.26	32.98	-65.73	-13.00	52.73	154	57	Horizontal
3	6944.3600	40.30	-43.85	36.01	-62.80	-13.00	49.80	175	4	Horizontal
4	8680.4500	38.17	-41.62	37.88	-60.83	-13.00	47.83	136	117	Horizontal
5	10416.5400	33.66	-38.97	38.88	-61.70	-13.00	48.70	259	360	Horizontal
6	12152.6300	32.75	-37.42	39.09	-60.84	-13.00	47.84	155	359	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	43.19	-46.27	29.50	-68.84	-13.00	55.84	215	43	Vertical
2	5208.2700	46.42	-45.26	32.98	-61.12	-13.00	48.12	148	165	Vertical
3	6944.3600	40.52	-43.85	36.01	-62.58	-13.00	49.58	156	179	Vertical
4	8680.4500	38.45	-41.62	37.88	-60.55	-13.00	47.55	299	360	Vertical
5	10416.5400	33.91	-38.97	38.88	-61.45	-13.00	48.45	182	165	Vertical
6	12152.6300	31.87	-37.42	39.09	-61.72	-13.00	48.72	302	283	Vertical

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**Test Band = UL CA Band 2A-4A\_ TM1**

**Test Channel = Low Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	49.70	-111.71	-62.01	-13.00	49.01	263	3	Horizontal
2	3702.18	50.31	-111.07	-60.76	-13.00	47.76	251	341	Horizontal
3	5133.27	50.07	-106.90	-56.83	-13.00	43.83	174	32	Horizontal
4	5553.27	49.42	-106.36	-56.94	-13.00	43.94	186	113	Horizontal
5	6844.36	48.53	-101.87	-53.34	-13.00	40.34	264	113	Horizontal
6	7404.36	47.66	-100.78	-53.12	-13.00	40.12	188	291	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	50.22	-111.71	-61.49	-13.00	48.49	263	360	Vertical
2	3702.18	50.74	-111.07	-60.33	-13.00	47.33	145	247	Vertical
3	5133.27	48.99	-106.90	-57.91	-13.00	44.91	264	66	Vertical
4	5553.27	49.54	-106.36	-56.82	-13.00	43.82	177	166	Vertical
5	6844.36	47.57	-101.87	-54.30	-13.00	41.30	263	314	Vertical
6	7404.36	49.11	-100.78	-51.67	-13.00	38.67	210	297	Vertical

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**Test Band = UL CA Band 2A-4A\_ TM1**

**Test Channel = Mid Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	50.41	-111.65	-61.24	-13.00	48.24	163	116	Horizontal
2	3742.18	52.01	-110.86	-58.85	-13.00	45.85	251	352	Horizontal
3	5170.77	49.60	-106.85	-57.25	-13.00	44.25	176	229	Horizontal
4	5613.27	49.64	-106.14	-56.50	-13.00	43.50	265	343	Horizontal
5	6894.36	47.20	-101.71	-54.51	-13.00	41.51	185	49	Horizontal
6	7484.36	47.67	-100.43	-52.76	-13.00	39.76	144	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	50.05	-111.65	-61.60	-13.00	48.60	263	360	Vertical
2	3742.18	50.94	-110.86	-59.92	-13.00	46.92	241	326	Vertical
3	5170.77	50.53	-106.85	-56.32	-13.00	43.32	176	131	Vertical
4	5613.27	50.28	-106.14	-55.86	-13.00	42.86	284	360	Vertical
5	6894.36	48.63	-101.71	-53.08	-13.00	40.08	196	179	Vertical
6	7484.36	49.13	-100.43	-51.30	-13.00	38.30	241	47	Vertical

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**Test Band = UL CA Band 2A-4A\_ TM1**

**Test Channel = High Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	49.65	-111.61	-61.96	-13.00	48.96	281	360	Horizontal
2	3782.18	50.87	-110.66	-59.79	-13.00	46.79	263	162	Horizontal
3	5208.27	50.22	-106.80	-56.58	-13.00	43.58	174	344	Horizontal
4	5673.27	49.60	-105.88	-56.28	-13.00	43.28	248	358	Horizontal
5	6944.36	47.74	-101.67	-53.93	-13.00	40.93	126	359	Horizontal
6	7564.36	48.58	-100.01	-51.43	-13.00	38.43	196	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	49.75	-111.61	-61.86	-13.00	48.86	264	342	Vertical
2	3782.18	50.61	-110.66	-60.05	-13.00	47.05	263	31	Vertical
3	5208.27	49.65	-106.80	-57.15	-13.00	44.15	188	342	Vertical
4	5673.27	49.55	-105.88	-56.33	-13.00	43.33	214	194	Vertical
5	6944.36	46.68	-101.67	-54.99	-13.00	41.99	174	162	Vertical
6	7564.36	48.97	-100.01	-51.04	-13.00	38.04	123	179	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

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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-2.30	-0.001328	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-1.20	-0.000693	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-2.20	-0.001270	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	0.00	0.000000	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-1.00	-0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-2.20	-0.001270	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-2.00	-0.001154	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-1.30	-0.000750	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-1.10	-0.000635	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-0.10	-0.000058	PASS

---End of Attachment---

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