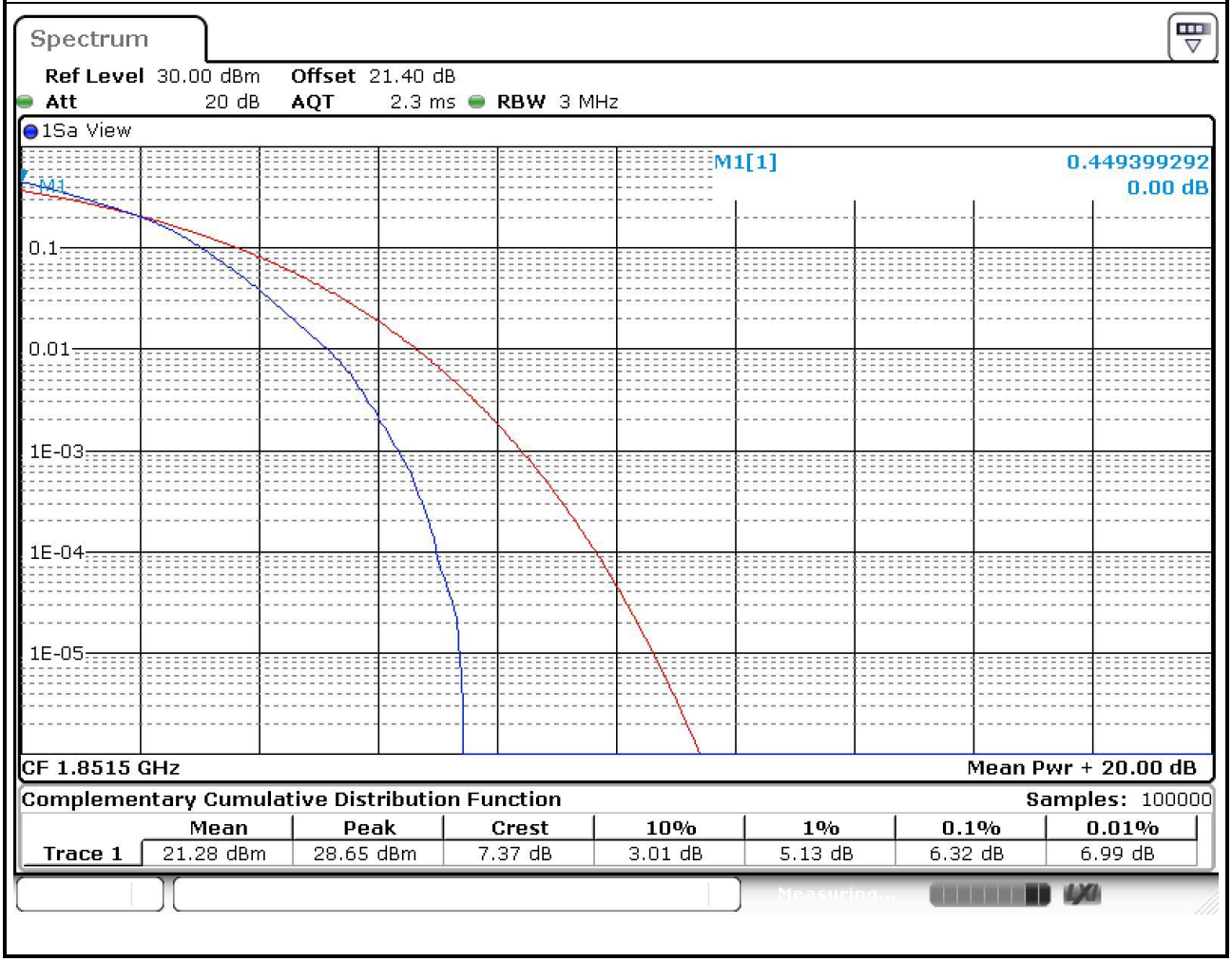
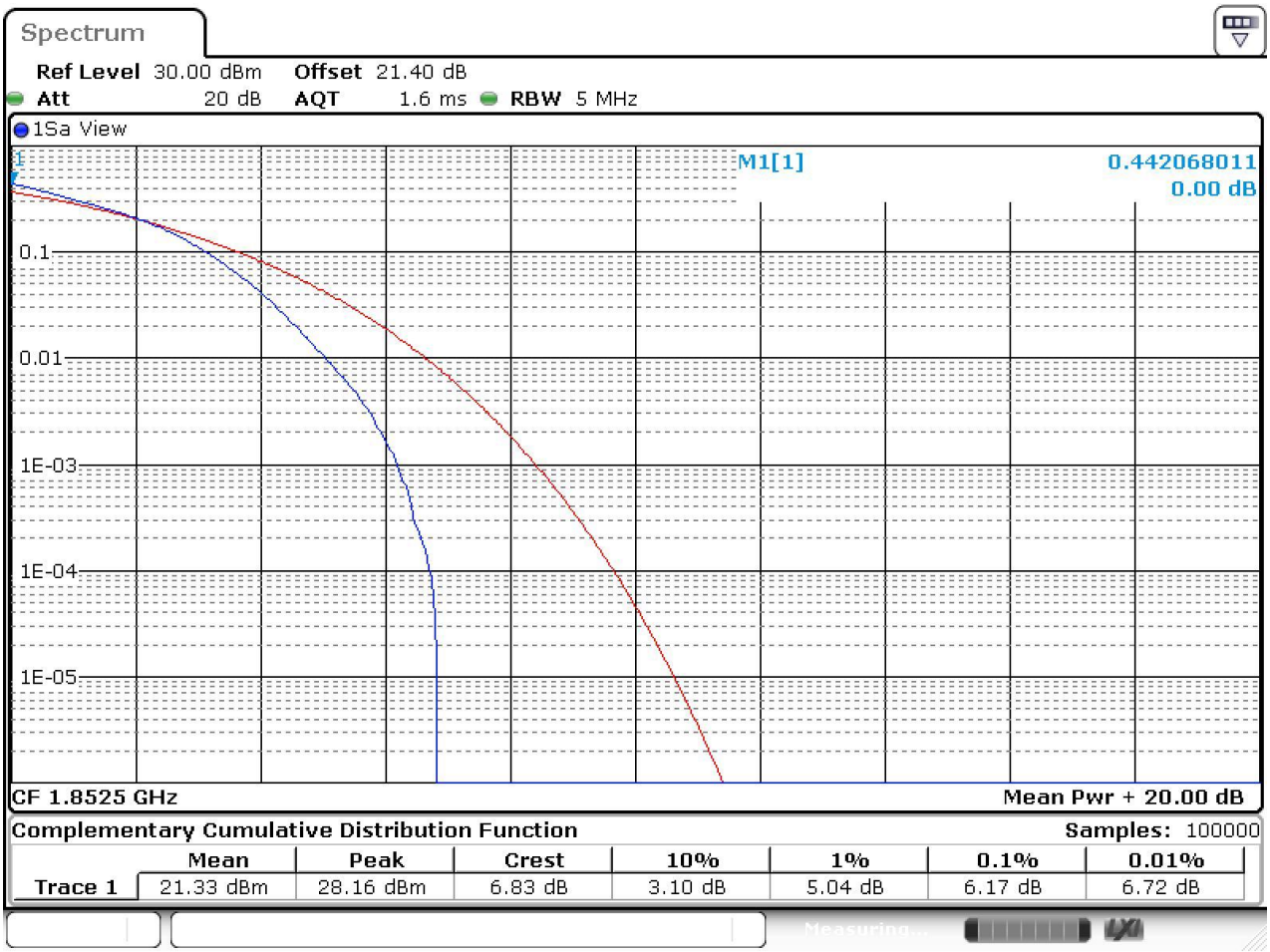
Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average ratio (dB)
LTE Band 2	3	QPSK	18615	1851.5	5.33
LTE Band 2	3	QPSK	18900	1880.0	5.07
LTE Band 2	3	QPSK	19185	1908.5	5.22
LTE Band 2	3	16QAM	18615	1851.5	6.32
LTE Band 2	3	16QAM	18900	1880.0	6.12
LTE Band 2	3	16QAM	19185	1908.5	6.29

Worst plots



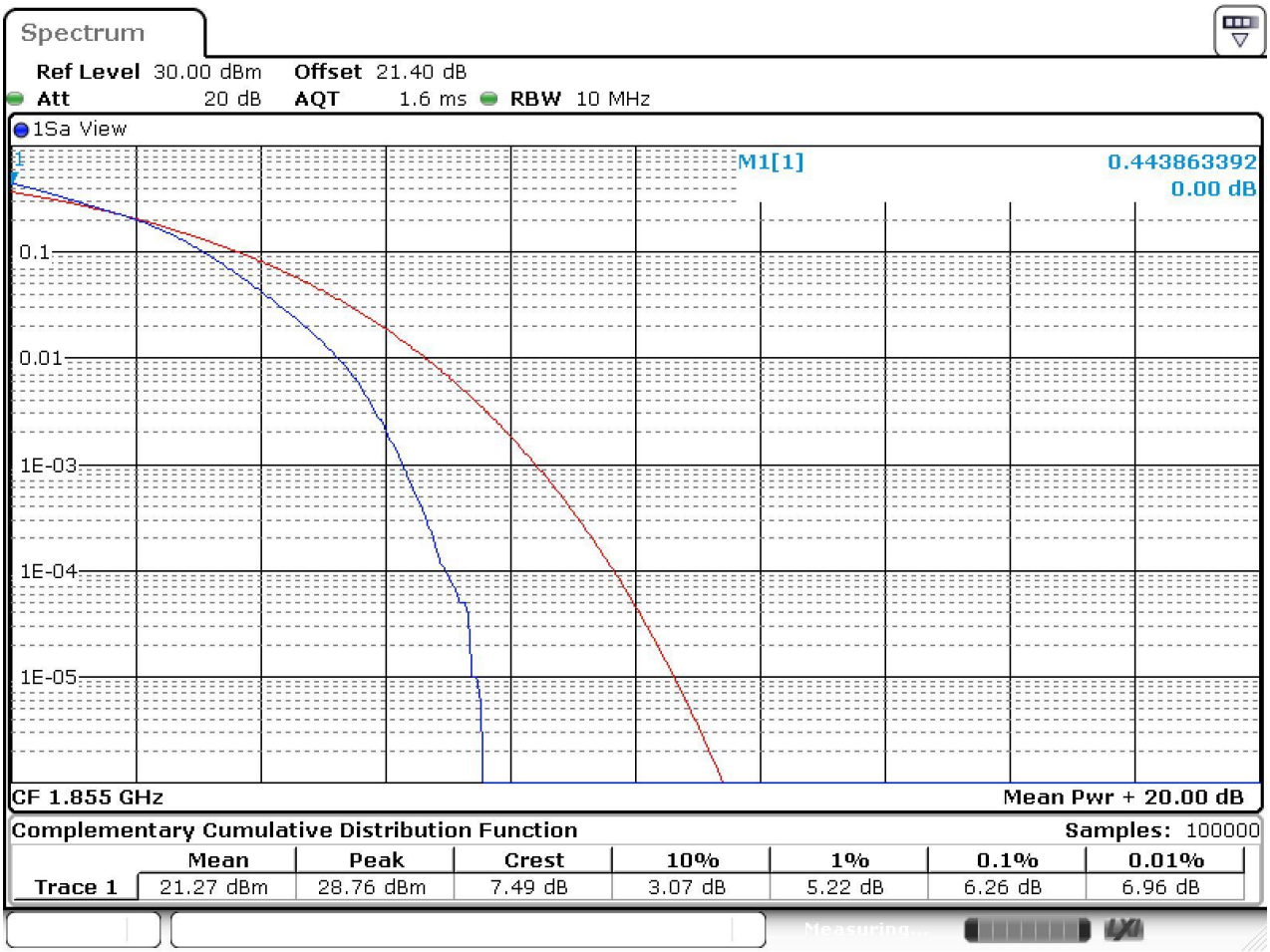
Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average ratio (dB)
LTE Band 2	5	QPSK	18625	1852.5	5.30
LTE Band 2	5	QPSK	18900	1880.0	5.07
LTE Band 2	5	QPSK	19175	1907.5	5.19
LTE Band 2	5	16QAM	18625	1852.5	6.17
LTE Band 2	5	16QAM	18900	1880.0	6.03
LTE Band 2	5	16QAM	19175	1907.5	6.09

Worst plots



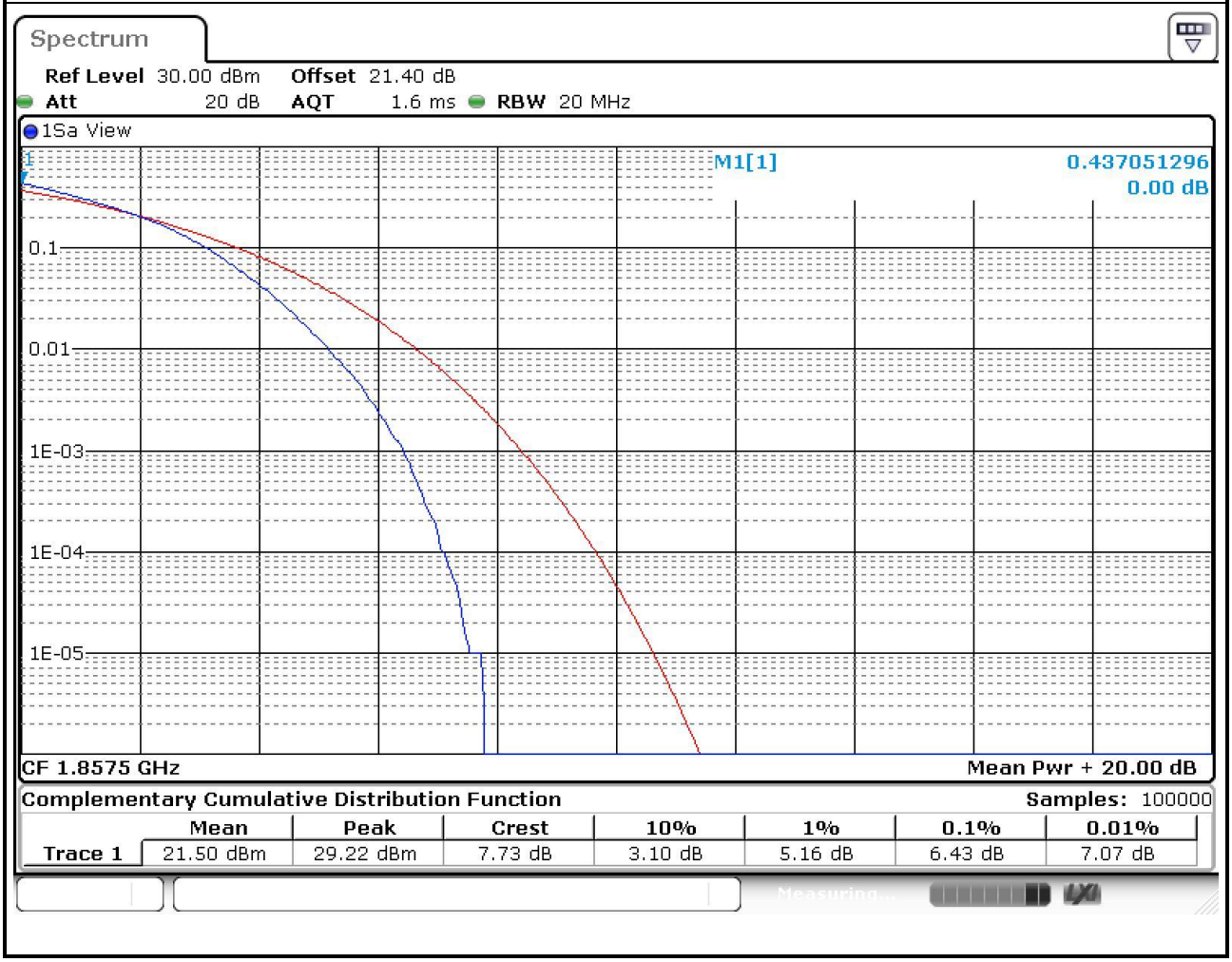
Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average ratio (dB)
LTE Band 2	10	QPSK	18650	1855.0	5.36
LTE Band 2	10	QPSK	18900	1880.0	5.01
LTE Band 2	10	QPSK	19150	1905.0	5.01
LTE Band 2	10	16QAM	18650	1855.0	6.26
LTE Band 2	10	16QAM	18900	1880.0	6.12
LTE Band 2	10	16QAM	19150	1905.0	6.00

Worst plots



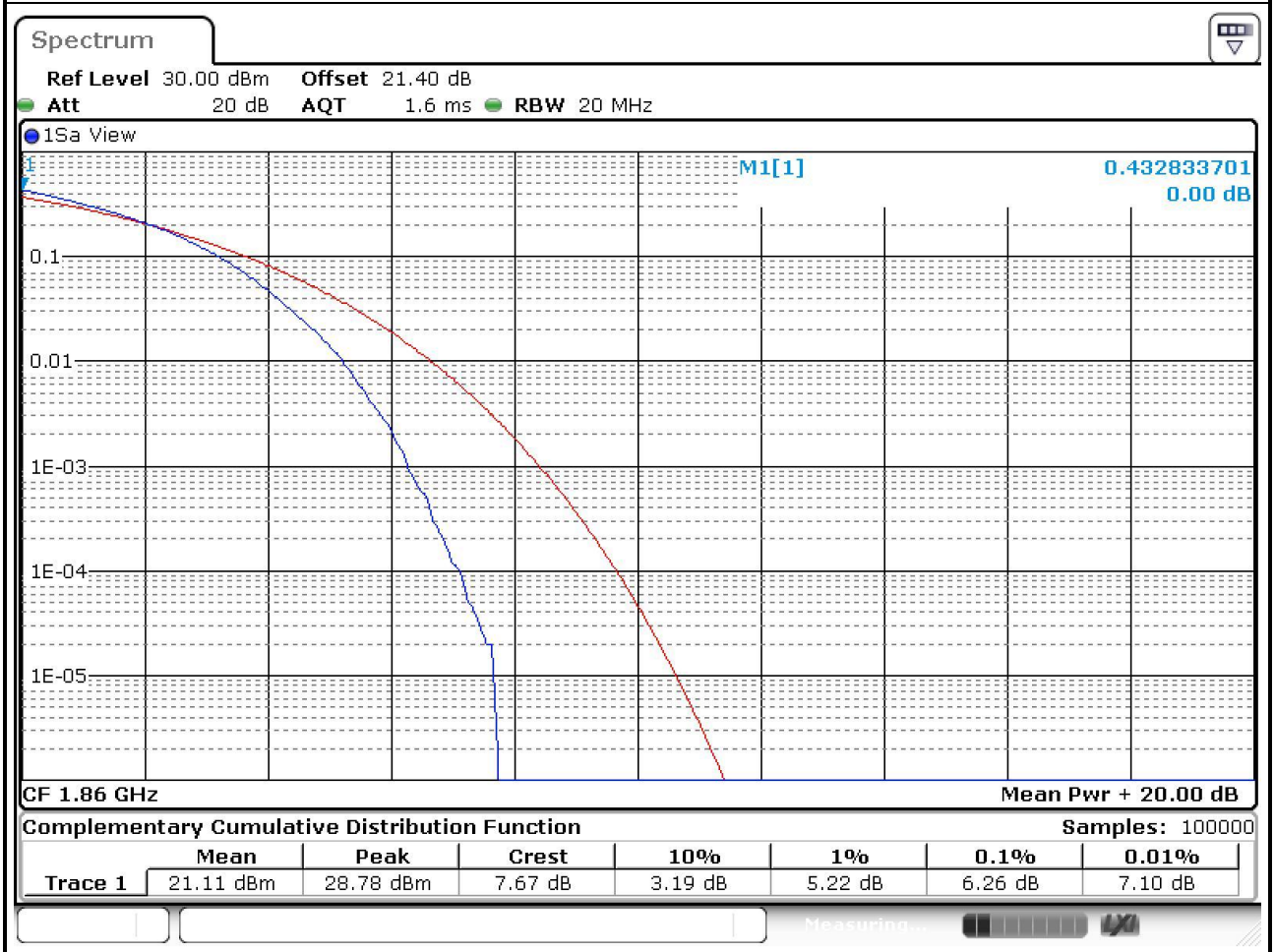
Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average ratio (dB)
LTE Band 2	15	QPSK	18675	1857.5	5.48
LTE Band 2	15	QPSK	18900	1880.0	5.28
LTE Band 2	15	QPSK	19125	1902.5	5.22
LTE Band 2	15	16QAM	18675	1857.5	6.43
LTE Band 2	15	16QAM	18900	1880.0	6.03
LTE Band 2	15	16QAM	19125	1902.5	6.12

Worst plots



Mode	CB (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average ratio (dB)
LTE Band 2	20	QPSK	18700	1860.0	5.33
LTE Band 2	20	QPSK	18900	1880.0	5.22
LTE Band 2	20	QPSK	19100	1900.0	5.16
LTE Band 2	20	16QAM	18700	1860.0	6.26
LTE Band 2	20	16QAM	18900	1880.0	6.20
LTE Band 2	20	16QAM	19100	1900.0	6.23

Worst plots



3.7 Frequency Stability

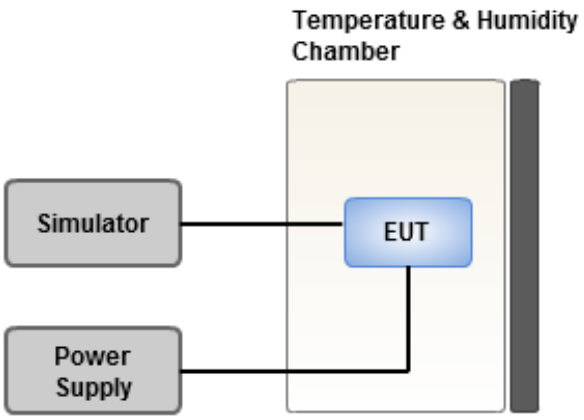
3.7.1 Limit of Frequency Stability

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.7.2 Test Procedures

1. EUT was placed at temperature chamber and connected to an external power supply.
2. Temperature and voltage condition shall be tested to confirm frequency stability.
3. Temperature range is from -30~55°C and voltage range is from lowest to highest working voltage.
4. Tem Link up EUT and simulator. Confirm frequency drift value of simulator and record it.

3.7.3 Test Setup



3.7.4 Test Result of Frequency Stability

WCDMA Band 2			
Temperature (°C)	**Voltage (dc)**	**Frequency Drift (ppm)**	**Limit (ppm)**
55	3.7	0.011	2.5
50	3.7	0.012	2.5
40	3.7	0.013	2.5
30	3.7	0.012	2.5
20	3.7	0.012	2.5
10	3.7	0.011	2.5
0	3.7	0.011	2.5
-10	3.7	0.010	2.5
-20	3.7	0.011	2.5
-30	3.7	0.012	2.5
20	4.5	0.012	2.5
20	3.2	0.012	2.5

LTE Band 2, CB: 1.4MHz			
Temperature (°C)	Voltage (dc)	Frequency Drift (ppm)	Limit (ppm)
55	3.7	0.010	2.5
50	3.7	0.011	2.5
40	3.7	0.012	2.5
30	3.7	0.014	2.5
20	3.7	0.015	2.5
10	3.7	0.013	2.5
0	3.7	0.012	2.5
-10	3.7	0.010	2.5
-20	3.7	0.013	2.5
-30	3.7	0.013	2.5
20	4.5	0.013	2.5
20	3.2	0.010	2.5

LTE Band 2, CB: 3MHz			
Temperature (°C)	Voltage (dc)	Frequency Drift (ppm)	Limit (ppm)
55	3.7	0.010	2.5
50	3.7	0.012	2.5
40	3.7	0.013	2.5
30	3.7	0.013	2.5
20	3.7	0.011	2.5
10	3.7	0.012	2.5
0	3.7	0.015	2.5
-10	3.7	0.015	2.5
-20	3.7	0.013	2.5
-30	3.7	0.013	2.5
20	4.5	0.012	2.5
20	3.2	0.010	2.5

LTE Band 2, CB: 5MHz			
Temperature (°C)	Voltage (dc)	Frequency Drift (ppm)	Limit (ppm)
55	3.7	0.012	2.5
50	3.7	0.013	2.5
40	3.7	0.012	2.5
30	3.7	0.012	2.5
20	3.7	0.013	2.5
10	3.7	0.013	2.5
0	3.7	0.011	2.5
-10	3.7	0.012	2.5
-20	3.7	0.012	2.5
-30	3.7	0.013	2.5
20	4.5	0.013	2.5
20	3.2	0.013	2.5

LTE Band 2, CB: 10MHz			
Temperature (°C)	Voltage (dc)	Frequency Drift (ppm)	Limit (ppm)
55	3.7	0.012	2.5
50	3.7	0.012	2.5
40	3.7	0.013	2.5
30	3.7	0.011	2.5
20	3.7	0.012	2.5
10	3.7	0.012	2.5
0	3.7	0.013	2.5
-10	3.7	0.013	2.5
-20	3.7	0.012	2.5
-30	3.7	0.012	2.5
20	4.5	0.012	2.5
20	3.2	0.013	2.5

LTE Band 2, CB: 15MHz			
Temperature (°C)	Voltage (dc)	Frequency Drift (ppm)	Limit (ppm)
55	3.7	0.012	2.5
50	3.7	0.011	2.5
40	3.7	0.011	2.5
30	3.7	0.010	2.5
20	3.7	0.011	2.5
10	3.7	0.013	2.5
0	3.7	0.013	2.5
-10	3.7	0.011	2.5
-20	3.7	0.011	2.5
-30	3.7	0.012	2.5
20	4.5	0.013	2.5
20	3.2	0.011	2.5

LTE Band 2, CB: 20MHz			
Temperature (°C)	Voltage (dc)	Frequency Drift (ppm)	Limit (ppm)
55	3.7	0.013	2.5
50	3.7	0.012	2.5
40	3.7	0.013	2.5
30	3.7	0.010	2.5
20	3.7	0.011	2.5
10	3.7	0.012	2.5
0	3.7	0.012	2.5
-10	3.7	0.013	2.5
-20	3.7	0.013	2.5
-30	3.7	0.013	2.5
20	4.5	0.012	2.5
20	3.2	0.013	2.5

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website http://www.icertifi.com.tw.

Linkou	**Kwei Shan**	**Kwei Shan Site II**
Tel: 886-2-2601-1640	Tel: 886-3-271-8666	Tel: 886-3-271-8640
No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.	No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

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