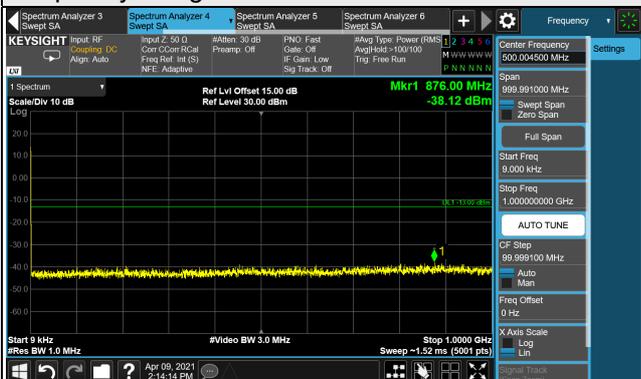


LTE Band 66 (CA 66C)

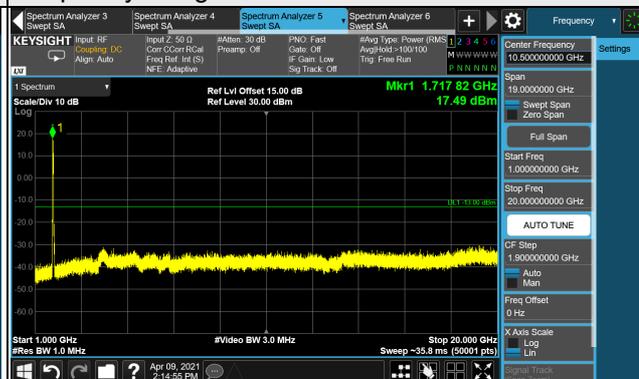
Channel Band width: 20MHz+20MHz

Channel 132072(1720.0MHz)+132270(1739.8MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~20GHz

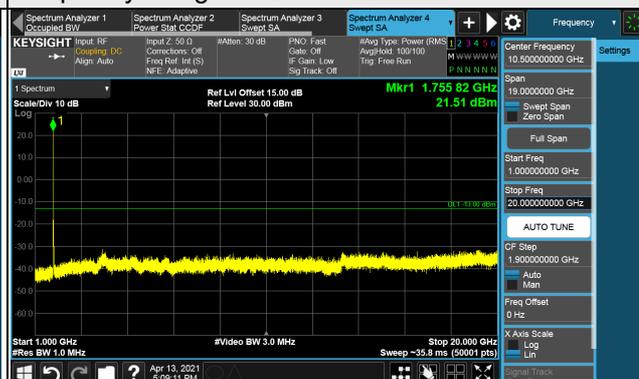


Channel 132323(1745.1MHz)+132521(1764.9MHz)

Frequency Range : 9kHz~1GHz

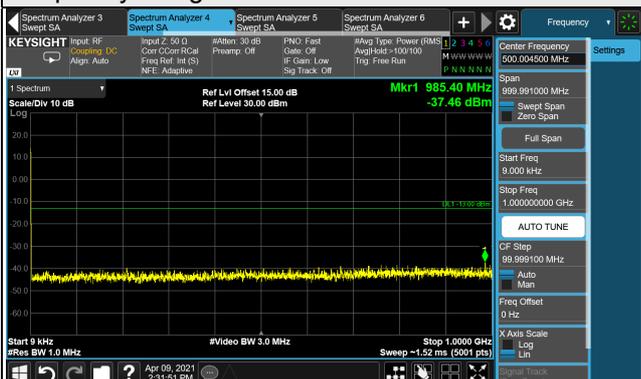


Frequency Range : 1GHz~20GHz

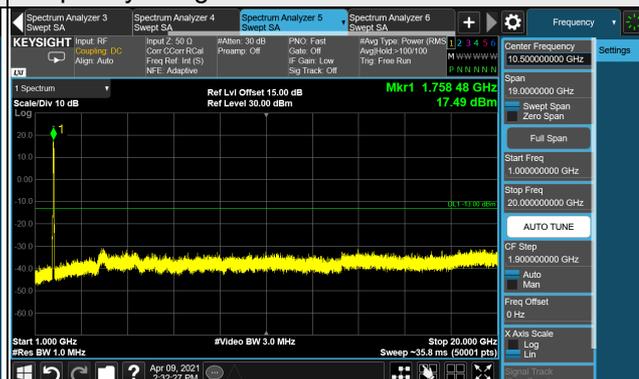


Channel 132374(1750.2MHz)+132572(1770.0MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~20GHz



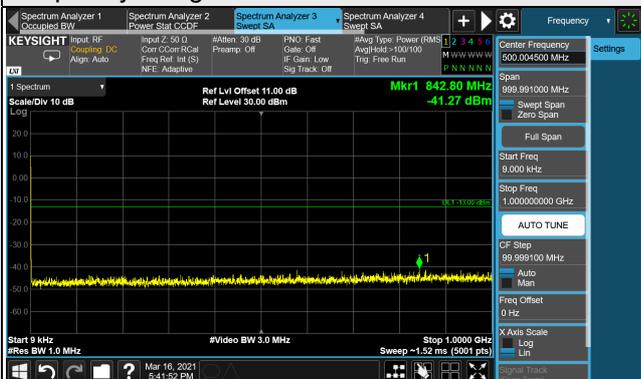
*The 9kHz signal over the limit is from Spectrum.

LTE Band 66 (CA 66B)

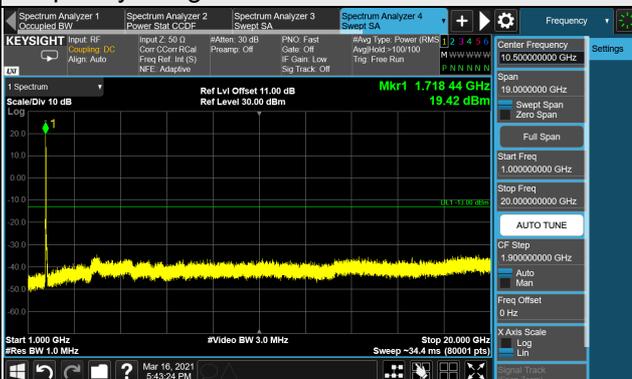
Channel Band width: 10MHz+10MHz

Channel 132022(1715.0MHz)+132121(1724.9MHz)

Frequency Range : 9kHz~1GHz

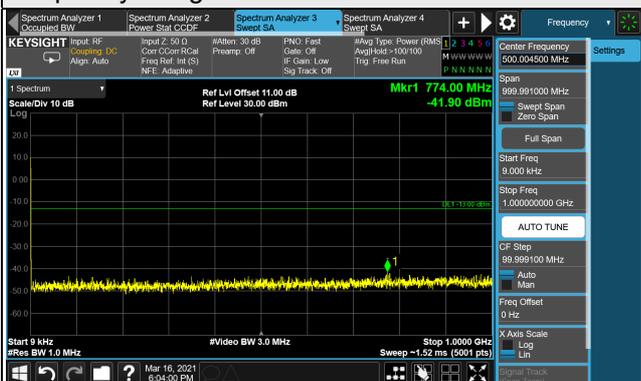


Frequency Range : 1GHz~20GHz

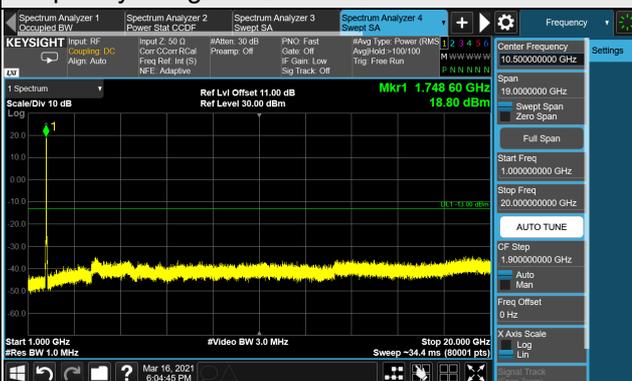


Channel 132373(1750.1MHz)+132472(1760.0MHz)

Frequency Range : 9kHz~1GHz

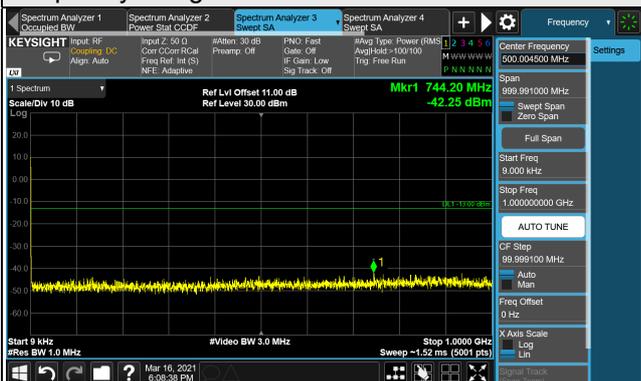


Frequency Range : 1GHz~20GHz

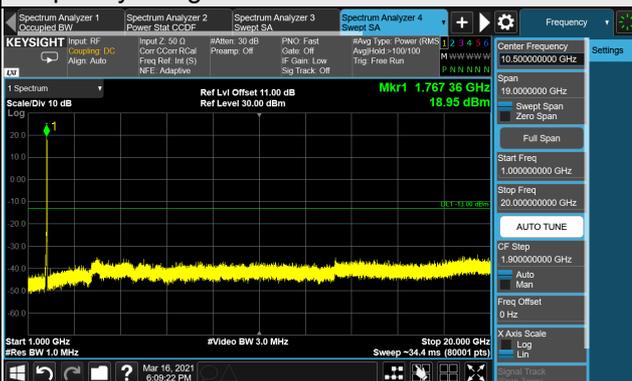


Channel 132523(1765.1MHz)+132622(1775.0MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~20GHz



*The 9kHz signal over the limit is from Spectrum.

4.7 Radiated Emission Measurement

4.7.1 Limits of Radiated Emission Measurement

For LTE Band 66

According to FCC 27.53(h) for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log (P)$ dB.

For LTE Band 7, 38, 41

In the FCC 27.53(m) (4)(6), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $55 + 10 \log (P)$ dB. The emission limit equal to -25dBm .

4.7.2 Test Procedure

- a. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high channel of operational frequency range.)
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G
- d. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution antenna}$.

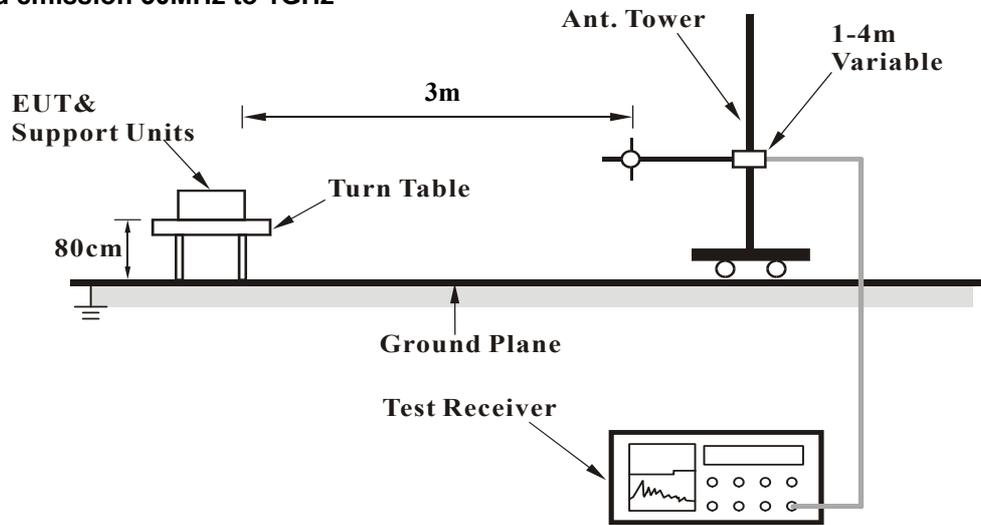
Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.7.3 Deviation from Test Standard

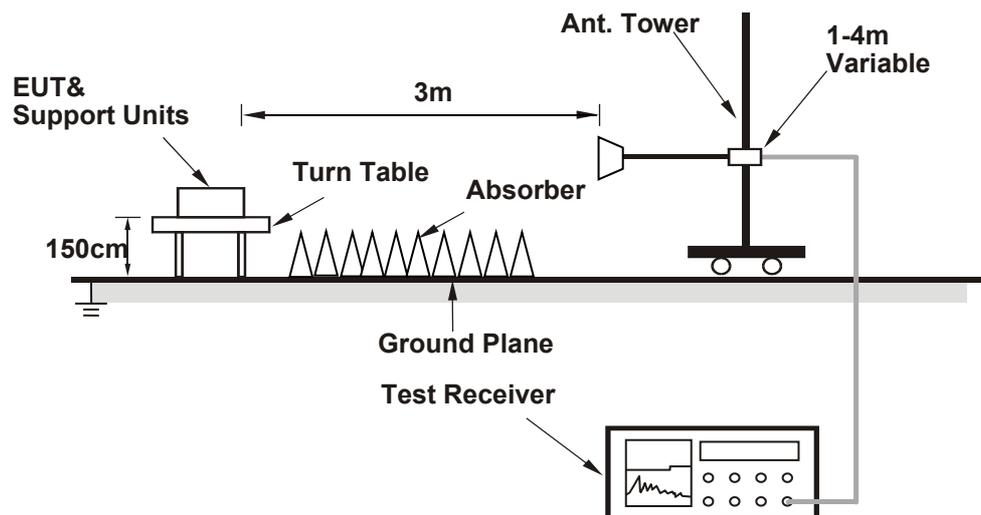
No deviation.

4.7.4 Test Setup

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.7.5 Test Results

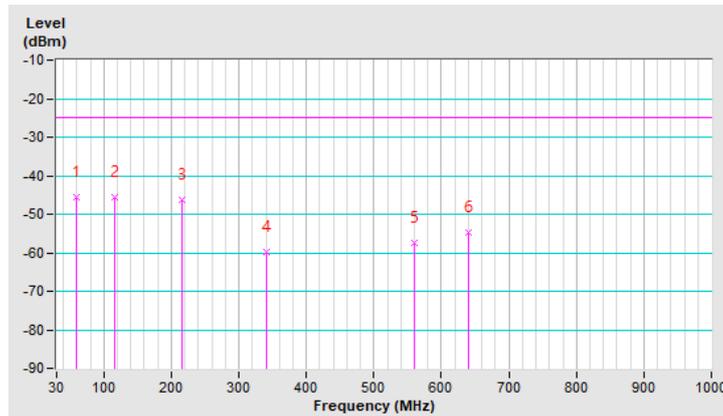
Below 1GHz
LTE Band 7 (CA 7C)

Mode	TX channel 21179 (2542.9MHz)+ TX channel 21350 (2560.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	60.07	-45.55	-25.00	-20.55	2.00 H	84	59.07	-104.62
2	115.36	-45.43	-25.00	-20.43	1.25 H	79	61.00	-106.43
3	215.27	-46.23	-25.00	-21.23	1.25 H	181	59.85	-106.08
4	340.40	-59.93	-25.00	-34.93	1.00 H	202	41.20	-101.13
5	559.62	-57.47	-25.00	-32.47	1.25 H	176	39.47	-96.94
6	640.13	-54.69	-25.00	-29.69	1.00 H	211	40.32	-95.01

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

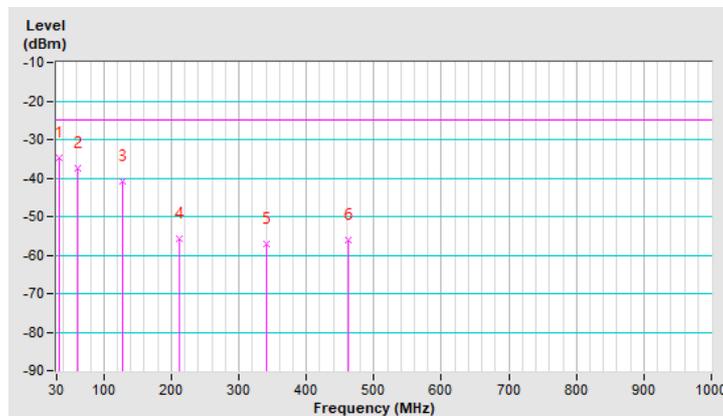


Mode	TX channel 21179 (2542.9MHz)+ TX channel 21350 (2560.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	33.88	-34.73	-25.00	-9.73	1.25 V	128	70.62	-105.35
2	61.04	-37.44	-25.00	-12.44	1.25 V	128	67.52	-104.96
3	127.00	-40.71	-25.00	-15.71	1.25 V	266	64.69	-105.40
4	212.36	-55.92	-25.00	-30.92	1.00 V	81	50.27	-106.19
5	341.37	-57.18	-25.00	-32.18	1.00 V	191	43.96	-101.14
6	461.65	-56.24	-25.00	-31.24	1.25 V	128	42.20	-98.44

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



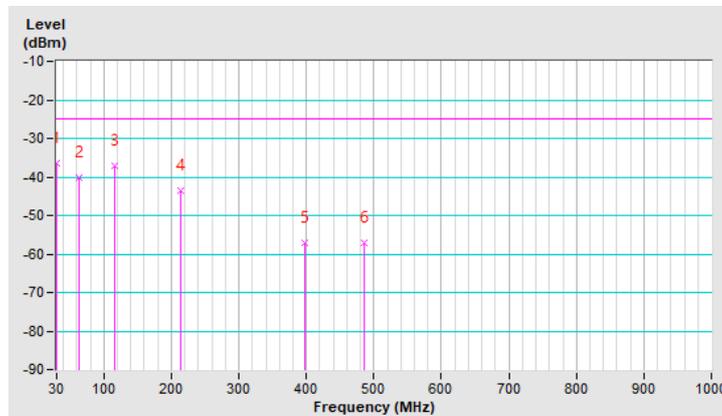
LTE Band 38 (CA 38C)

Mode	TX channel 37952 (2590.2MHz)+ TX channel 38150 (2610.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	-36.38	-25.00	-11.38	1.50 H	139	69.20	-105.58
2	63.95	-40.15	-25.00	-15.15	1.25 H	57	65.07	-105.22
3	116.33	-37.03	-25.00	-12.03	1.50 H	139	69.29	-106.32
4	214.30	-43.69	-25.00	-18.69	1.00 H	185	62.42	-106.11
5	398.60	-57.27	-25.00	-32.27	1.50 H	139	42.78	-100.05
6	485.90	-57.21	-25.00	-32.21	1.50 H	139	40.94	-98.15

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

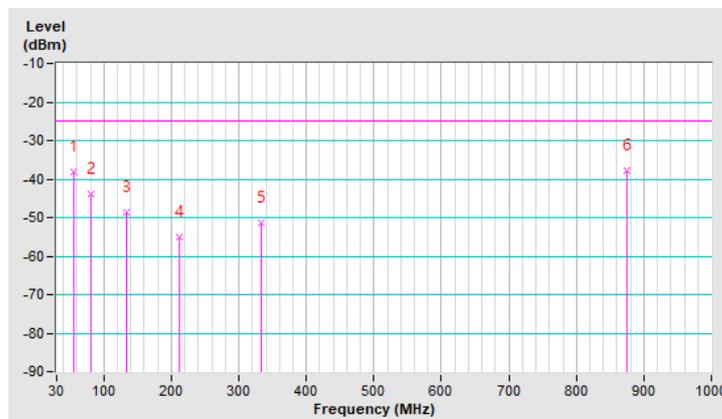


Mode	TX channel 37952 (2590.2MHz)+ TX channel 38150 (2610.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	56.19	-38.13	-25.00	-13.13	1.24 V	150	66.21	-104.34
2	80.44	-44.06	-25.00	-19.06	1.00 V	85	64.58	-108.64
3	132.82	-48.77	-25.00	-23.77	1.00 V	85	55.92	-104.69
4	212.36	-55.07	-25.00	-30.07	1.00 V	101	51.12	-106.19
5	333.61	-51.31	-25.00	-26.31	1.00 V	85	49.92	-101.23
6	874.87	-37.73	-25.00	-12.73	1.00 V	67	53.12	-90.85

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



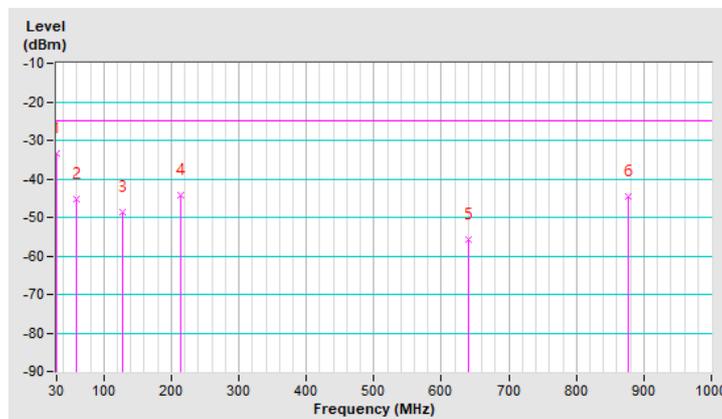
LTE Band 41 (CA 41C)

Mode	TX channel 41292 (2660.2MHz)+ TX channel 41490 (2680.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	-33.30	-25.00	-8.30	2.00 H	81	72.28	-105.58
2	59.10	-45.36	-25.00	-20.36	2.00 H	81	59.22	-104.58
3	127.00	-48.56	-25.00	-23.56	2.00 H	81	56.84	-105.40
4	214.30	-44.09	-25.00	-19.09	1.00 H	196	62.02	-106.11
5	640.13	-55.86	-25.00	-30.86	1.00 H	96	39.15	-95.01
6	875.84	-44.56	-25.00	-19.56	2.00 H	99	46.28	-90.84

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

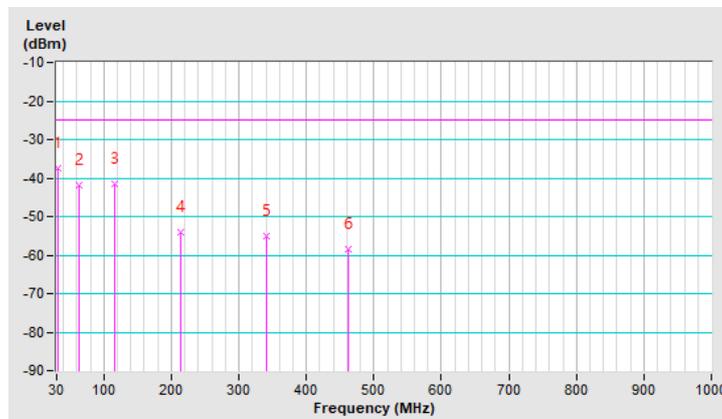


Mode	TX channel 41292 (2660.2MHz)+ TX channel 41490 (2680.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.91	-37.44	-25.00	-12.44	1.25 V	119	68.25	-105.69
2	62.98	-41.98	-25.00	-16.98	1.49 V	80	62.81	-104.79
3	115.36	-41.62	-25.00	-16.62	1.49 V	80	64.81	-106.43
4	214.30	-53.97	-25.00	-28.97	1.25 V	260	52.14	-106.11
5	340.40	-54.97	-25.00	-29.97	1.00 V	189	46.16	-101.13
6	461.65	-58.58	-25.00	-33.58	1.49 V	80	39.86	-98.44

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



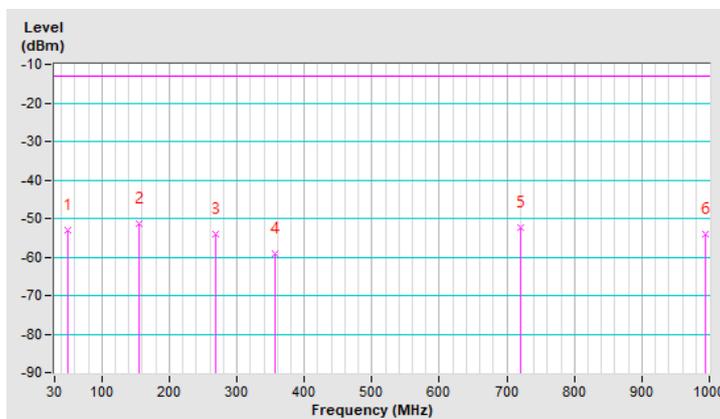
LTE Band 66 (CA 66C)

Mode	TX channel 132323 (1745.1MHz)+ TX channel 132521 (1764.9MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	49.40	-53.15	-13.00	-40.15	1.50 H	102	51.02	-104.17
2	155.13	-51.22	-13.00	-38.22	1.00 H	217	52.25	-103.47
3	268.62	-54.15	-13.00	-41.15	1.00 H	16	48.84	-102.99
4	355.92	-59.03	-13.00	-46.03	2.00 H	350	41.82	-100.85
5	719.67	-52.36	-13.00	-39.36	1.00 H	173	41.45	-93.81
6	994.18	-53.97	-13.00	-40.97	1.00 H	16	35.13	-89.10

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

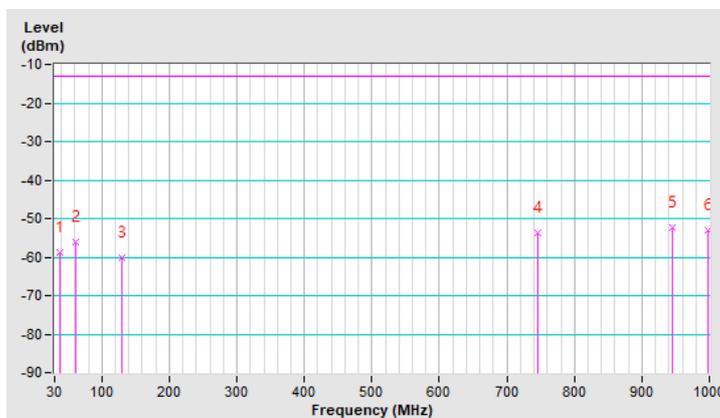


Mode	TX channel 132323 (1745.1MHz)+ TX channel 132521 (1764.9MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	38.73	-58.79	-13.00	-45.79	2.00 V	10	46.07	-104.86
2	61.04	-56.04	-13.00	-43.04	1.00 V	153	48.92	-104.96
3	129.91	-60.29	-13.00	-47.29	1.00 V	115	44.70	-104.99
4	745.86	-53.58	-13.00	-40.58	1.00 V	209	39.45	-93.03
5	945.68	-52.48	-13.00	-39.48	1.50 V	4	36.92	-89.40
6	998.06	-53.14	-13.00	-40.14	1.00 V	359	35.91	-89.05

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



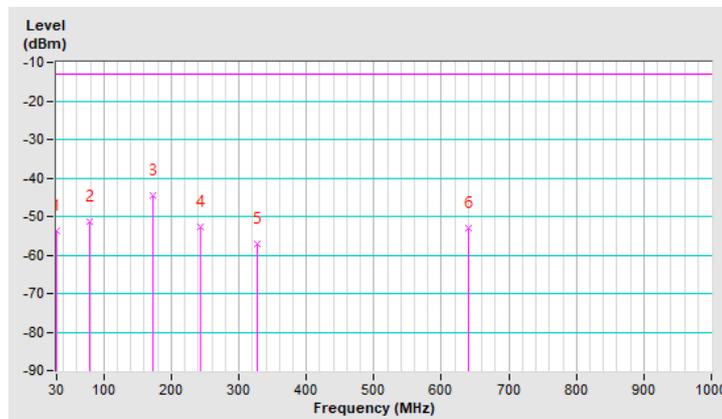
LTE Band 66 (CA 66B)

Mode	TX channel 132523 (1765.1MHz)+ TX channel 132622 (1775.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	30.97	-53.89	-13.00	-40.89	1.00 H	134	51.93	-105.82
2	78.50	-51.51	-13.00	-38.51	1.00 H	272	56.62	-108.13
3	173.56	-44.60	-13.00	-31.60	1.25 H	173	59.64	-104.24
4	242.43	-52.76	-13.00	-39.76	1.50 H	173	51.49	-104.25
5	327.79	-57.26	-13.00	-44.26	1.00 H	19	44.08	-101.34
6	640.13	-53.10	-13.00	-40.10	2.00 H	173	41.91	-95.01

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

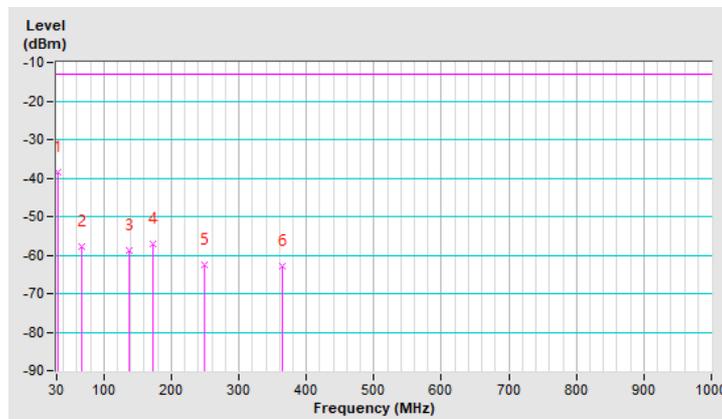


Mode	TX channel 132523 (1765.1MHz)+ TX channel 132622 (1775.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	-38.55	-13.00	-25.55	1.50 V	14	67.04	-105.59
2	66.86	-57.76	-13.00	-44.76	1.00 V	19	47.66	-105.42
3	136.70	-58.96	-13.00	-45.96	2.00 V	165	45.45	-104.41
4	173.56	-56.99	-13.00	-43.99	1.00 V	7	47.25	-104.24
5	249.22	-62.42	-13.00	-49.42	1.25 V	199	41.51	-103.93
6	364.65	-62.86	-13.00	-49.86	1.00 V	62	37.76	-100.62

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



Above 1GHz
LTE Band 7 (CA 7C)

Mode	TX channel 20828 (2507.8MHz)+ TX channel 20999 (2524.9MHz)	Frequency Range	1GHz ~ 27GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5015.60	-48.87	-25.00	-23.87	3.18 H	36	44.38	-93.25
2	5049.80	-48.89	-25.00	-23.89	3.24 H	42	44.12	-93.01
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5015.60	-48.58	-25.00	-23.58	1.62 V	251	44.67	-93.25
2	5049.80	-48.77	-25.00	-23.77	1.54 V	241	44.24	-93.01

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 21003 (2525.3MHz)+ TX channel 21174 (2542.4MHz)	Frequency Range	1GHz ~ 27GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5050.60	-48.50	-25.00	-23.50	3.22 H	25	44.51	-93.01
2	5084.80	-48.30	-25.00	-23.30	3.12 H	50	44.73	-93.03
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5050.60	-48.50	-25.00	-23.50	1.68 V	260	44.51	-93.01
2	5084.80	-48.08	-25.00	-23.08	1.84 V	250	44.95	-93.03

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 21179 (2542.9MHz)+ TX channel 21350 (2560.0MHz)	Frequency Range	1GHz ~ 27GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5085.80	-48.52	-25.00	-23.52	3.11 H	26	44.52	-93.04
2	5120.00	-48.59	-25.00	-23.59	3.22 H	48	44.49	-93.08
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5085.80	-48.39	-25.00	-23.39	1.59 V	253	44.65	-93.04
2	5120.00	-47.83	-25.00	-22.83	1.73 V	256	45.25	-93.08

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 38 (CA 38C)

Mode	TX channel 37850 (2580.0MHz)+ TX channel 38048 (2599.8MHz)	Frequency Range	1GHz ~ 27GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5160.00	-49.43	-25.00	-24.43	1.89 H	171	43.76	-93.19
2	5199.60	-49.41	-25.00	-24.41	1.93 H	164	43.90	-93.31
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5160.00	-48.93	-25.00	-23.93	2.91 V	94	44.26	-93.19
2	5199.60	-49.44	-25.00	-24.44	2.88 V	102	43.87	-93.31

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 37901 (2585.1MHz)+ TX channel 38099 (2604.9MHz)	Frequency Range	1GHz ~ 27GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5170.20	-49.00	-25.00	-24.00	1.76 H	162	44.21	-93.21
2	5209.80	-49.37	-25.00	-24.37	1.92 H	165	43.96	-93.33
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5170.20	-49.06	-25.00	-24.06	2.84 V	96	44.15	-93.21
2	5209.80	-48.95	-25.00	-23.95	2.92 V	95	44.38	-93.33

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 37952 (2590.2MHz)+ TX channel 38150 (2610.0MHz)	Frequency Range	1GHz ~ 27GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5180.40	-49.10	-25.00	-24.10	1.90 H	168	44.15	-93.25
2	5220.00	-48.85	-25.00	-23.85	1.87 H	175	44.50	-93.35
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5180.40	-48.79	-25.00	-23.79	2.92 V	100	44.46	-93.25
2	5220.00	-48.68	-25.00	-23.68	2.84 V	91	44.67	-93.35

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 41 (CA 41C)

Mode	TX channel 39750 (2506.0MHz)+ TX channel 39948 (2525.8MHz)	Frequency Range	1GHz ~ 27GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5012.00	-48.55	-25.00	-23.55	1.45 H	286	44.73	-93.28
2	5051.60	-48.87	-25.00	-23.87	1.48 H	282	44.14	-93.01
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5012.00	-49.17	-25.00	-24.17	1.96 V	152	44.11	-93.28
2	5051.60	-48.05	-25.00	-23.05	1.92 V	145	44.96	-93.01

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 40521 (2583.1MHz)+ TX channel 40719 (2602.9MHz)	Frequency Range	1GHz ~ 27GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5166.20	-48.36	-25.00	-23.36	1.46 H	289	44.84	-93.20
2	5205.80	-48.70	-25.00	-23.70	1.48 H	279	44.63	-93.33
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5166.20	-48.00	-25.00	-23.00	1.96 V	144	45.20	-93.20
2	5205.80	-48.51	-25.00	-23.51	1.90 V	146	44.82	-93.33

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 41292 (2660.2MHz)+ TX channel 41490 (2680.0MHz)	Frequency Range	1GHz ~ 27GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5205.80	-48.70	-25.00	-23.70	1.48 H	279	44.63	-93.33
2	5360.00	-47.87	-25.00	-22.87	1.49 H	283	45.37	-93.24
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5205.80	-49.30	-25.00	-24.30	1.92 V	148	44.03	-93.33
2	5360.00	-48.63	-25.00	-23.63	1.89 V	146	44.61	-93.24

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 66 (CA 66C)

Mode	TX channel 132072 (1720.0MHz)+ TX channel 132270 (1739.8MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3440.00	-52.55	-13.00	-39.55	1.39 H	320	44.44	-96.99
2	3479.60	-52.44	-13.00	-39.44	1.40 H	330	44.31	-96.75
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3440.00	-53.66	-13.00	-40.66	2.59 V	73	43.33	-96.99
2	3479.60	-53.54	-13.00	-40.54	2.40 V	70	43.21	-96.75

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 132323 (1745.1MHz)+ TX channel 132521 (1764.9MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3490.00	-51.26	-13.00	-38.26	1.44 H	330	45.43	-96.69
2	3529.80	-51.11	-13.00	-38.11	1.50 H	326	45.36	-96.47
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3490.00	-52.33	-13.00	-39.33	2.44 V	60	44.36	-96.69
2	3529.80	-52.31	-13.00	-39.31	2.50 V	66	44.16	-96.47

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 132374 (1750.2MHz)+ TX channel 132572 (1770.0MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3500.40	-51.67	-13.00	-38.67	1.49 H	340	44.96	-96.63
2	3540.00	-51.72	-13.00	-38.72	1.51 H	346	44.68	-96.40
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3500.40	-52.60	-13.00	-39.60	2.49 V	360	44.03	-96.63
2	3540.00	-52.87	-13.00	-39.87	2.51 V	74	43.53	-96.40

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 66 (CA 66B)

Mode	TX channel 132022 (1715.0MHz)+ TX channel 132121 (1724.9MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3430.00	-52.24	-13.00	-39.24	1.35 H	325	44.78	-97.02
2	3449.80	-52.09	-13.00	-39.09	1.37 H	326	44.85	-96.94
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3430.00	-52.67	-13.00	-39.67	2.87 V	80	44.35	-97.02
2	3449.80	-51.87	-13.00	-38.87	2.84 V	76	45.07	-96.94

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 132373 (1750.1MHz)+ TX channel 132472 (1760.0MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3500.20	-51.43	-13.00	-38.43	1.42 H	331	45.20	-96.63
2	3520.00	-51.74	-13.00	-38.74	1.37 H	329	44.78	-96.52
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3500.20	-51.95	-13.00	-38.95	2.89 V	82	44.68	-96.63
2	3520.00	-51.70	-13.00	-38.70	2.85 V	84	44.82	-96.52

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Mode	TX channel 132523 (1765.1MHz)+ TX channel 132622 (1775.0MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3530.20	-52.12	-13.00	-39.12	1.44 H	326	44.34	-96.46
2	3550.00	-51.33	-13.00	-38.33	1.38 H	324	45.02	-96.35
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3530.20	-52.02	-13.00	-39.02	2.88 V	81	44.44	-96.46
2	3550.00	-51.08	-13.00	-38.08	2.86 V	84	45.27	-96.35

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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