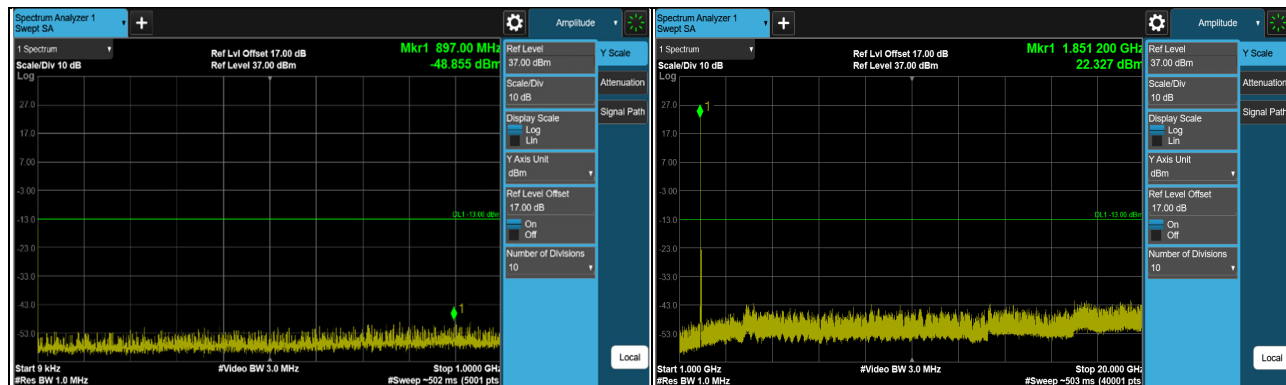
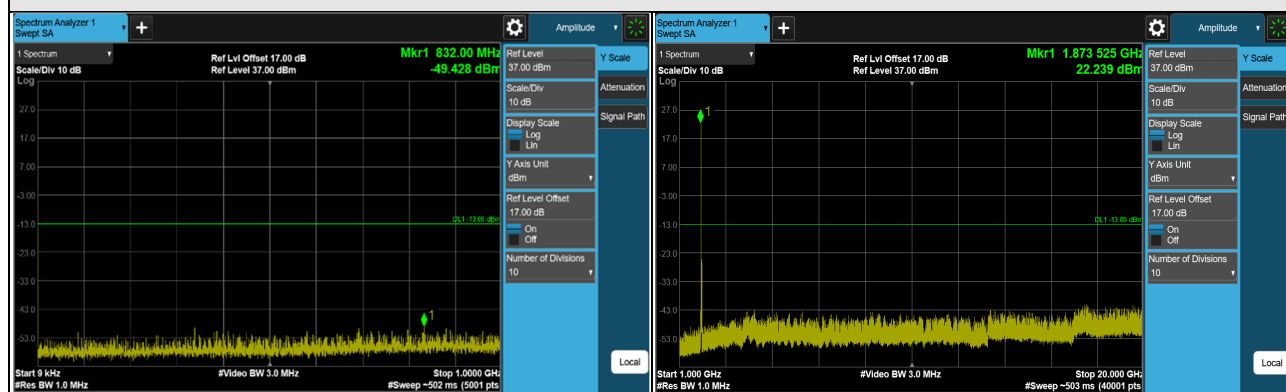


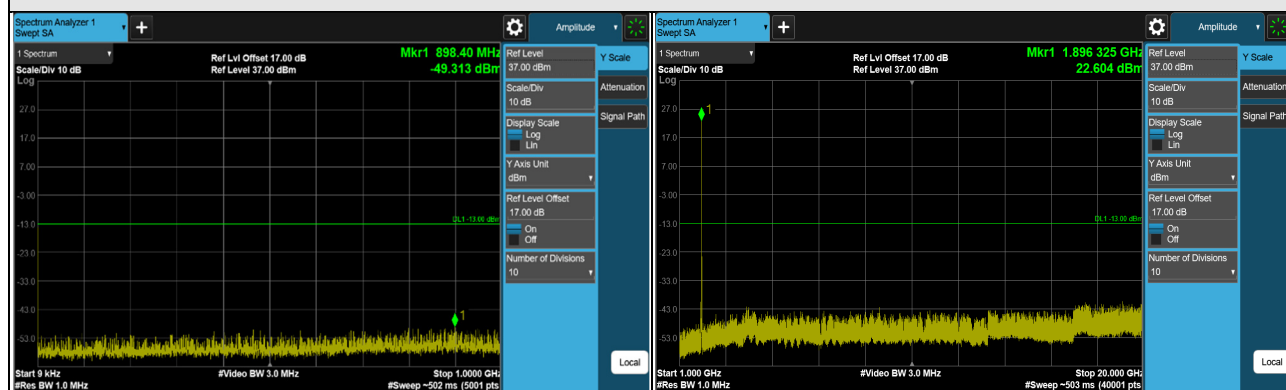
LTE Band 25 (Channel Bandwidth 20MHz)



CH 26140 (1860MHz)



CH 26365 (1882.5MHz)



CH 26590 (1905MHz)

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

4.8 Radiated Emission Measurement

4.8.1 Limits of Radiated Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

4.8.2 Test Procedure

- a. In the semi-anechoic chamber, EUT placed on the 0.8m (below or equal 1GHz) and/or 1.5m (above 1GHz) 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.
- b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following C63.26 section 5.5 and 5.2.7
 - $\text{EIRP (dBm)} = E (\text{dB}\mu\text{V/m}) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
 - $\text{ERP (dBm)} = E (\text{dB}\mu\text{V/m}) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

Note:

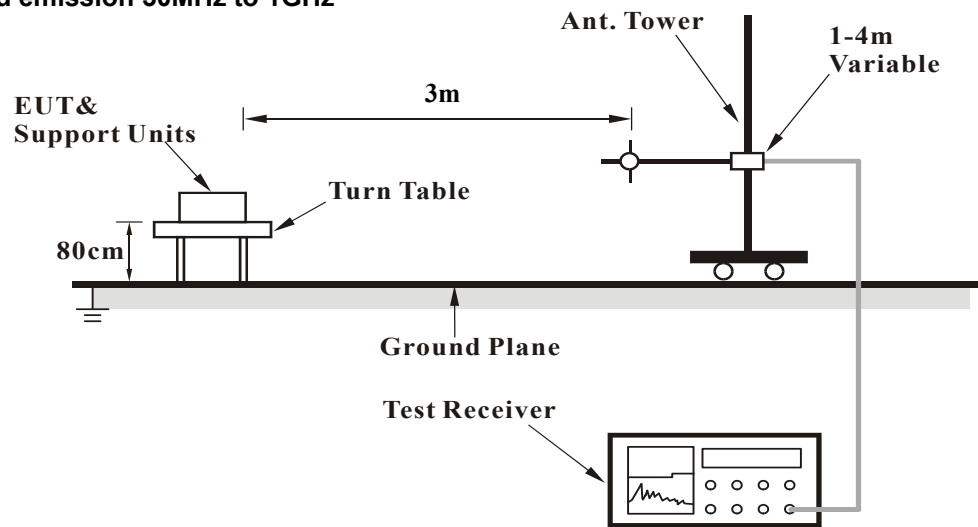
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

4.8.3 Deviation from Test Standard

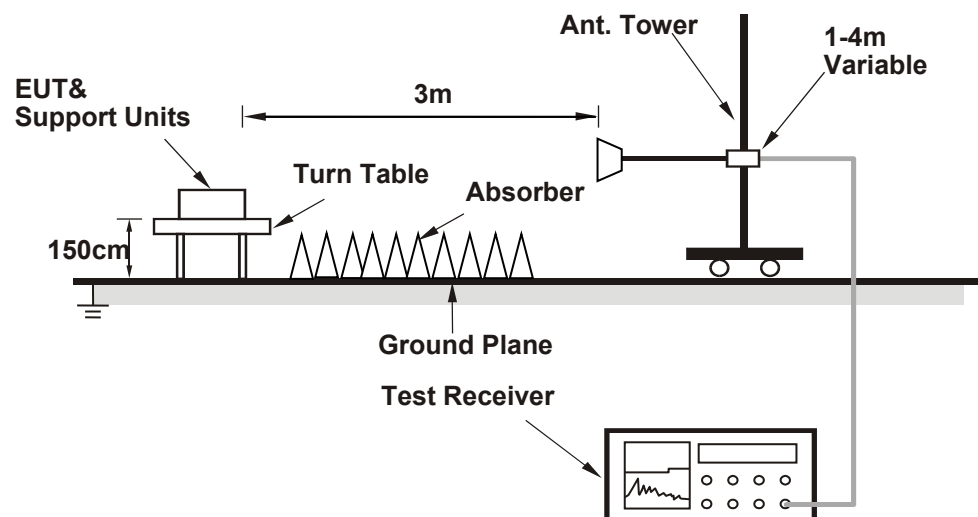
No deviation.

4.8.4 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).

4.8.5 Test Results

Below 1GHz

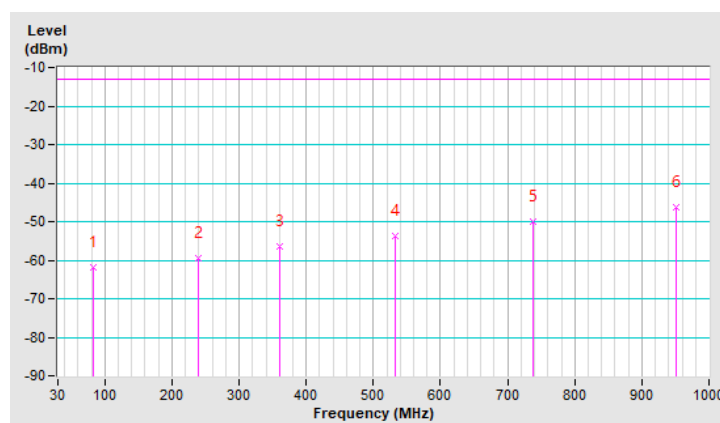
GPRS

Mode	TX channel 810 (1909.8MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	82.65	-61.95	-13.00	-48.95	1.20 H	323	56.41	-118.36
2	238.44	-59.51	-13.00	-46.51	2.42 H	178	55.64	-115.15
3	359.64	-56.52	-13.00	-43.52	2.87 H	239	54.03	-110.55
4	532.17	-53.81	-13.00	-40.81	1.87 H	226	52.13	-105.94
5	736.98	-50.04	-13.00	-37.04	2.85 H	222	51.34	-101.38
6	951.36	-46.33	-13.00	-33.33	2.87 H	164	51.37	-97.70

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.

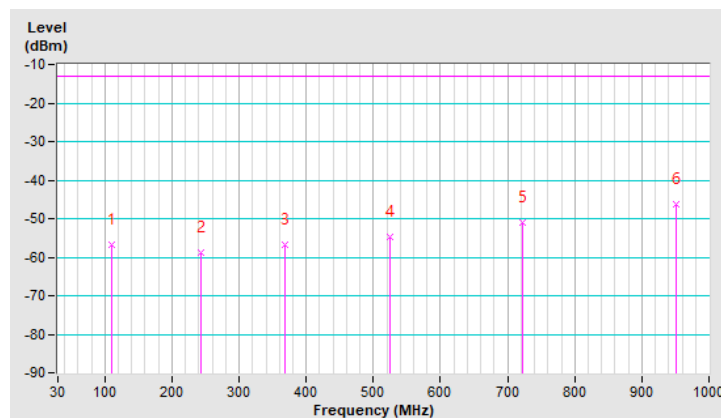


Mode	TX channel 810 (1909.8MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	109.54	-56.85	-13.00	-43.85	1.25 V	231	58.64	-115.49
2	242.43	-58.74	-13.00	-45.74	2.35 V	145	56.21	-114.95
3	367.56	-56.80	-13.00	-43.80	3.24 V	187	53.47	-110.27
4	524.70	-54.75	-13.00	-41.75	2.86 V	222	51.23	-105.98
5	722.58	-50.93	-13.00	-37.93	3.21 V	210	51.04	-101.97
6	950.53	-46.17	-13.00	-33.17	3.32 V	181	51.55	-97.72

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.



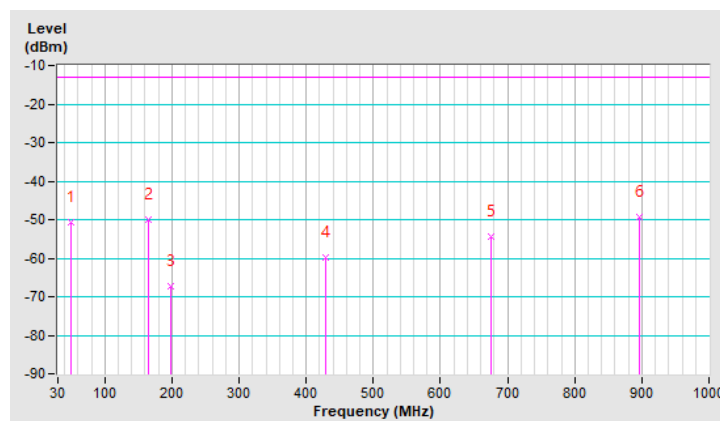
LTE Band 2 (Channel Bandwidth 20MHz)

Mode	TX channel 18900 (1880.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	50.37	-50.72	-13.00	-37.72	1.23 H	177	57.15	-107.87
2	165.80	-50.16	-13.00	-37.16	1.68 H	92	57.87	-108.03
3	197.81	-67.40	-13.00	-54.40	1.27 H	50	43.87	-111.27
4	428.67	-59.98	-13.00	-46.98	1.69 H	152	43.46	-103.44
5	675.05	-54.43	-13.00	-41.43	2.03 H	86	42.89	-97.32
6	896.21	-49.33	-13.00	-36.33	1.78 H	88	44.41	-93.74

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.

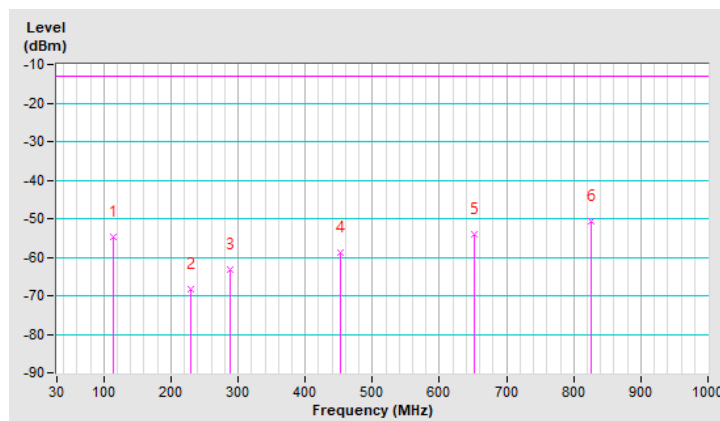


Mode	TX channel 18900 (1880.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	113.42	-54.76	-13.00	-41.76	2.63 V	2	55.37	-110.13
2	229.82	-68.39	-13.00	-55.39	1.87 V	152	42.71	-111.10
3	288.99	-63.31	-13.00	-50.31	2.25 V	20	44.54	-107.85
4	452.92	-58.81	-13.00	-45.81	3.43 V	61	43.72	-102.53
5	651.77	-54.03	-13.00	-41.03	1.97 V	80	43.79	-97.82
6	826.37	-50.64	-13.00	-37.64	1.02 V	282	43.75	-94.39

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.



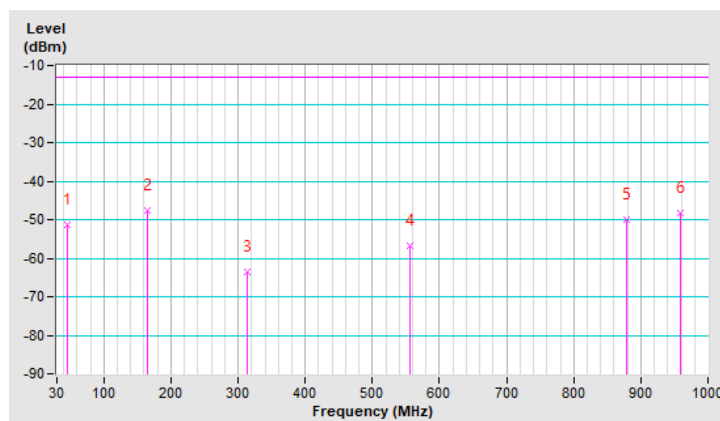
LTE Band 25 (Channel Bandwidth 20MHz)

Mode	TX channel 26365 (1882.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	45.52	-51.45	-13.00	-38.45	1.22 H	29	56.48	-107.93
2	164.83	-47.76	-13.00	-34.76	3.54 H	268	60.22	-107.98
3	313.24	-63.59	-13.00	-50.59	1.74 H	49	43.12	-106.71
4	556.71	-56.87	-13.00	-43.87	2.32 H	128	43.40	-100.27
5	877.78	-50.11	-13.00	-37.11	1.97 H	183	43.75	-93.86
6	958.29	-48.31	-13.00	-35.31	3.14 H	213	44.16	-92.47

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.

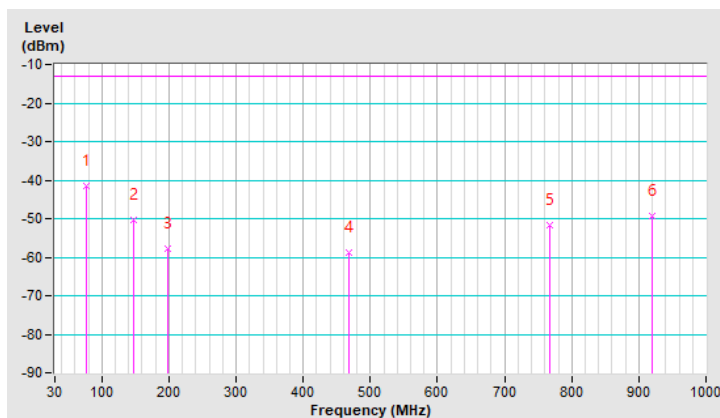


Mode	TX channel 26365 (1882.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	77.53	-41.48	-13.00	-28.48	1.20 V	18	70.74	-112.22
2	147.37	-50.35	-13.00	-37.35	1.98 V	13	57.08	-107.43
3	198.78	-57.95	-13.00	-44.95	3.33 V	118	53.36	-111.31
4	468.44	-58.82	-13.00	-45.82	2.52 V	18	43.45	-102.27
5	768.17	-51.73	-13.00	-38.73	1.74 V	310	43.70	-95.43
6	920.46	-49.22	-13.00	-36.22	3.23 V	2	43.96	-93.18

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
GPRS

Mode	TX channel 512 (1850.2MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3700.40	-54.40	-13.00	-41.40	2.14 H	155	61.36	-115.76
2	5550.60	-54.02	-13.00	-41.02	1.24 H	188	57.28	-111.30
Antenna Polarity & Test Distance : Vertical 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	3700.40	-52.28	-13.00	-39.28	2.41 V	90	63.48	-115.76
2	5550.60	-47.03	-13.00	-34.03	2.51 V	112	64.27	-111.30

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 661 (1880.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3760.00	-54.75	-13.00	-41.75	3.32 H	104	60.82	-115.57
2	5640.00	-53.41	-13.00	-40.41	1.24 H	167	57.73	-111.14
Antenna Polarity & Test Distance : Vertical 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	3760.00	-51.06	-13.00	-38.06	2.23 V	16	64.51	-115.57
2	5640.00	-45.80	-13.00	-32.80	3.25 V	241	65.34	-111.14

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 810 (1909.8MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3819.60	-54.29	-13.00	-41.29	2.57 H	17	61.11	-115.40
2	5729.40	-48.57	-13.00	-35.57	2.37 H	311	62.32	-110.89
Antenna Polarity & Test Distance : Vertical 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	3819.60	-50.44	-13.00	-37.44	3.24 V	21	64.96	-115.40
2	5729.40	-41.84	-13.00	-28.84	3.02 V	222	69.05	-110.89

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 2 (Channel Bandwidth 1.4MHz)

Mode	TX channel 18607 (1850.7MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3701.40	-58.95	-13.00	-45.95	1.72 H	242	56.81	-115.76
2	5552.10	-54.51	-13.00	-41.51	1.52 H	231	56.79	-111.30
3	7402.80	-51.40	-13.00	-38.40	1.82 H	294	54.76	-106.16
Antenna Polarity & Test Distance : Vertical 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	3701.40	-57.34	-13.00	-44.34	2.31 V	199	58.42	-115.76
2	5552.10	-50.11	-13.00	-37.11	3.22 V	166	61.19	-111.30
3	7402.80	-46.85	-13.00	-33.85	1.25 V	56	59.31	-106.16

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 18900 (1880.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3760.00	-56.83	-13.00	-43.83	1.33 H	42	58.74	-115.57
2	5640.00	-54.40	-13.00	-41.40	1.34 H	166	56.74	-111.14
3	7520.00	-50.63	-13.00	-37.63	1.77 H	241	55.13	-105.76
Antenna Polarity & Test Distance : Vertical 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	3760.00	-57.90	-13.00	-44.90	1.21 V	293	57.67	-115.57
2	5640.00	-53.08	-13.00	-40.08	2.11 V	103	58.06	-111.14
3	7520.00	-50.52	-13.00	-37.52	1.85 V	323	55.24	-105.76

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 19193 (1909.3MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3818.60	-56.97	-13.00	-43.97	1.94 H	182	58.44	-115.41
2	5727.90	-52.55	-13.00	-39.55	1.68 H	51	58.34	-110.89
3	7637.20	-51.26	-13.00	-38.26	1.42 H	202	55.02	-106.28
Antenna Polarity & Test Distance : Vertical 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	3818.60	-56.72	-13.00	-43.72	2.25 V	161	58.69	-115.41
2	5727.90	-51.13	-13.00	-38.13	1.43 V	37	59.76	-110.89
3	7637.20	-50.01	-13.00	-37.01	1.53 V	291	56.27	-106.28

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 2 (Channel Bandwidth 5MHz)

Mode	TX channel 18625 (1852.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3705.00	-58.51	-13.00	-45.51	1.66 H	234	57.23	-115.74
2	5557.50	-54.08	-13.00	-41.08	1.66 H	228	57.24	-111.32
3	7410.00	-51.02	-13.00	-38.02	1.89 H	301	55.09	-106.11
Antenna Polarity & Test Distance : Vertical 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	3705.00	-56.90	-13.00	-43.90	2.34 V	192	58.84	-115.74
2	5557.50	-49.80	-13.00	-36.80	3.24 V	161	61.52	-111.32
3	7410.00	-46.34	-13.00	-33.34	1.27 V	53	59.77	-106.11

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 18900 (1880.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3760.00	-56.34	-13.00	-43.34	1.28 H	36	59.23	-115.57
2	5640.00	-53.92	-13.00	-40.92	1.29 H	163	57.22	-111.14
3	7520.00	-50.22	-13.00	-37.22	1.79 H	321	55.54	-105.76
Antenna Polarity & Test Distance : Vertical 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	3760.00	-57.30	-13.00	-44.30	1.26 V	303	58.27	-115.57
2	5640.00	-52.73	-13.00	-39.73	2.15 V	109	58.41	-111.14
3	7520.00	-50.00	-13.00	-37.00	1.82 V	327	55.76	-105.76

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 19175 (1907.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3815.00	-56.54	-13.00	-43.54	1.96 H	185	58.87	-115.41
2	5722.50	-52.09	-13.00	-39.09	1.72 H	43	58.78	-110.87
3	7630.00	-50.86	-13.00	-37.86	1.45 H	214	55.38	-106.24
Antenna Polarity & Test Distance : Vertical 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	3815.00	-56.14	-13.00	-43.14	2.31 V	164	59.27	-115.41
2	5722.50	-50.66	-13.00	-37.66	1.49 V	31	60.21	-110.87
3	7630.00	-49.59	-13.00	-36.59	1.59 V	294	56.65	-106.24

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 2 (Channel Bandwidth 20MHz)

Mode	TX channel 18700 (1860.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3720.00	-57.96	-13.00	-44.96	1.15 H	344	57.74	-115.70
2	5580.00	-53.85	-13.00	-40.85	1.63 H	232	57.50	-111.35
3	7440.00	-50.49	-13.00	-37.49	1.02 H	59	55.45	-105.94
Antenna Polarity & Test Distance : Vertical 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	3720.00	-56.54	-13.00	-43.54	2.41 V	199	59.16	-115.70
2	5580.00	-49.46	-13.00	-36.46	3.21 V	155	61.89	-111.35
3	7440.00	-45.74	-13.00	-32.74	1.25 V	42	60.20	-105.94

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 18900 (1880.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3760.00	-55.97	-13.00	-42.97	1.25 H	30	59.60	-115.57
2	5640.00	-53.47	-13.00	-40.47	1.24 H	157	57.67	-111.14
3	7520.00	-49.79	-13.00	-36.79	1.74 H	324	55.97	-105.76
Antenna Polarity & Test Distance : Vertical 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	3760.00	-56.87	-13.00	-43.87	1.22 V	304	58.70	-115.57
2	5640.00	-52.30	-13.00	-39.30	2.11 V	104	58.84	-111.14
3	7520.00	-49.49	-13.00	-36.49	1.88 V	334	56.27	-105.76

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 19100 (1900.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3800.00	-56.27	-13.00	-43.27	2.04 H	199	59.18	-115.45
2	5700.00	-51.55	-13.00	-38.55	1.67 H	36	59.24	-110.79
3	7600.00	-50.26	-13.00	-37.26	1.43 H	216	55.82	-106.08
Antenna Polarity & Test Distance : Vertical 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	3800.00	-55.85	-13.00	-42.85	2.34 V	166	59.60	-115.45
2	5700.00	-50.14	-13.00	-37.14	1.44 V	27	60.65	-110.79
3	7600.00	-49.00	-13.00	-36.00	1.54 V	303	57.08	-106.08

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 25 (Channel Bandwidth 1.4MHz)

Mode	TX channel 26047 (1850.7MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3701.40	-58.23	-13.00	-45.23	3.38 H	45	57.53	-115.76
2	5552.10	-56.76	-13.00	-43.76	2.08 H	326	54.54	-111.30
3	7402.80	-52.97	-13.00	-39.97	1.57 H	166	53.19	-106.16
Antenna Polarity & Test Distance : Vertical 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	3701.40	-57.21	-13.00	-44.21	1.48 V	34	58.55	-115.76
2	5552.10	-48.11	-13.00	-35.11	1.77 V	247	63.19	-111.30
3	7402.80	-45.83	-13.00	-32.83	1.95 V	172	60.33	-106.16

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 26365 (1882.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3765.00	-57.95	-13.00	-44.95	3.25 H	118	57.62	-115.57
2	5647.50	-51.85	-13.00	-38.85	2.89 H	169	59.24	-111.09
3	7530.00	-51.74	-13.00	-38.74	2.39 H	314	54.02	-105.76
Antenna Polarity & Test Distance : Vertical 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	3765.00	-58.05	-13.00	-45.05	1.68 V	161	57.52	-115.57
2	5647.50	-48.72	-13.00	-35.72	2.81 V	31	62.37	-111.09
3	7530.00	-46.30	-13.00	-33.30	1.65 V	107	59.46	-105.76

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 26683 (1914.3MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3828.60	-57.92	-13.00	-44.92	3.22 H	173	57.46	-115.38
2	5742.90	-51.41	-13.00	-38.41	2.12 H	185	59.53	-110.94
3	7657.20	-51.21	-13.00	-38.21	1.32 H	192	55.11	-106.32
Antenna Polarity & Test Distance : Vertical 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	3828.60	-57.85	-13.00	-44.85	1.62 V	224	57.53	-115.38
2	5742.90	-47.66	-13.00	-34.66	2.35 V	131	63.28	-110.94
3	7657.20	-47.01	-13.00	-34.01	1.46 V	112	59.31	-106.32

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 25 (Channel Bandwidth 5MHz)

Mode	TX channel 26065 (1852.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3705.00	-57.87	-13.00	-44.87	3.35 H	42	57.87	-115.74
2	5557.50	-56.50	-13.00	-43.50	2.02 H	322	54.82	-111.32
3	7410.00	-52.47	-13.00	-39.47	1.53 H	162	53.64	-106.11
Antenna Polarity & Test Distance : Vertical 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	3705.00	-56.78	-13.00	-43.78	1.45 V	23	58.96	-115.74
2	5557.50	-47.80	-13.00	-34.80	1.75 V	244	63.52	-111.32
3	7410.00	-45.39	-13.00	-32.39	1.91 V	165	60.72	-106.11

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 26365 (1882.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3765.00	-57.54	-13.00	-44.54	3.21 H	114	58.03	-115.57
2	5647.50	-51.48	-13.00	-38.48	2.85 H	166	59.61	-111.09
3	7530.00	-51.39	-13.00	-38.39	2.34 H	311	54.37	-105.76
Antenna Polarity & Test Distance : Vertical 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	3765.00	-57.64	-13.00	-44.64	1.64 V	158	57.93	-115.57
2	5647.50	-48.37	-13.00	-35.37	2.74 V	23	62.72	-111.09
3	7530.00	-45.88	-13.00	-32.88	1.62 V	104	59.88	-105.76

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 26665 (1912.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	22deg. C, 64%RH	Input Power	4.0Vdc
Tested By	Vincent Chen		

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	3825.00	-57.55	-13.00	-44.55	3.19 H	168	57.84	-115.39
2	5737.50	-50.97	-13.00	-37.97	2.09 H	181	59.96	-110.93
3	7650.00	-50.81	-13.00	-37.81	1.39 H	184	55.53	-106.34
Antenna Polarity & Test Distance : Vertical 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	3825.00	-57.54	-13.00	-44.54	1.59 V	221	57.85	-115.39
2	5737.50	-47.29	-13.00	-34.29	2.31 V	127	63.64	-110.93
3	7650.00	-46.61	-13.00	-33.61	1.33 V	109	59.73	-106.34

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 25 (Channel Bandwidth 20MHz)

Mode	TX channel 26140 (1860.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	21deg. C, 71%RH	Input Power	120Vac, 60Hz
Tested By	Vincent Chen		

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	3720.00	-57.55	-13.00	-44.55	3.37 H	34	58.15	-115.70
2	5580.00	-56.18	-13.00	-43.18	1.96 H	321	55.17	-111.35
3	7440.00	-51.94	-13.00	-38.94	1.42 H	151	54.00	-105.94
Antenna Polarity & Test Distance : Vertical 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	3720.00	-56.31	-13.00	-43.31	1.42 V	14	59.39	-115.70
2	5580.00	-47.33	-13.00	-34.33	1.67 V	241	64.02	-111.35
3	7440.00	-44.88	-13.00	-31.88	1.86 V	123	61.06	-105.94

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 26365 (1882.5MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	21deg. C, 71%RH	Input Power	120Vac, 60Hz
Tested By	Vincent Chen		

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	3765.00	-57.08	-13.00	-44.08	3.24 H	104	58.49	-115.57
2	5647.50	-51.00	-13.00	-38.00	2.89 H	163	60.09	-111.09
3	7530.00	-51.03	-13.00	-38.03	2.29 H	309	54.73	-105.76
Antenna Polarity & Test Distance : Vertical 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	3765.00	-57.26	-13.00	-44.26	1.61 V	155	58.31	-115.57
2	5647.50	-48.06	-13.00	-35.06	2.78 V	16	63.03	-111.09
3	7530.00	-45.39	-13.00	-32.39	1.56 V	101	60.37	-105.76

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 26590 (1905.0MHz)	Frequency Range	1GHz ~ 20GHz
Environmental Conditions	21deg. C, 71%RH	Input Power	120Vac, 60Hz
Tested By	Vincent Chen		

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	3810.00	-57.24	-13.00	-44.24	3.21 H	165	58.18	-115.42
2	5715.00	-50.45	-13.00	-37.45	2.04 H	177	60.39	-110.84
3	7620.00	-50.27	-13.00	-37.27	1.42 H	188	55.91	-106.18
Antenna Polarity & Test Distance : Vertical 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	3810.00	-57.14	-13.00	-44.14	1.53 V	214	58.28	-115.42
2	5715.00	-46.75	-13.00	-33.75	2.37 V	119	64.09	-110.84
3	7620.00	-45.98	-13.00	-32.98	1.26 V	104	60.20	-106.18

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.

If you have any comments, please feel free to contact us at the following:

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Web Site: www.bureauveritas-adt.com

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

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