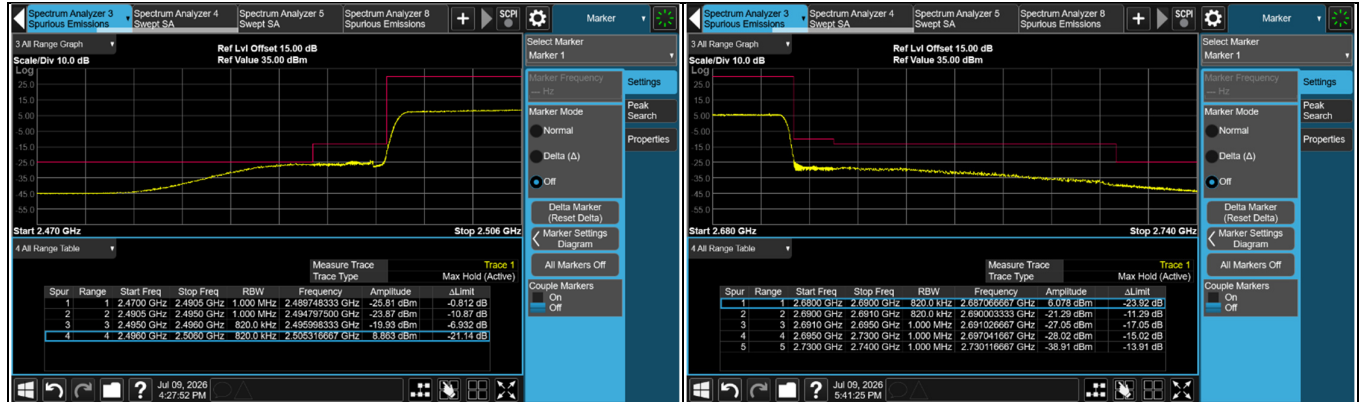


Modulation: QPSK



FULL CH 39750 (2506.0MHz) + CH 39948 (2525.8MHz)

FULL CH 41292 (2660.2MHz) + CH 41490 (2680.0MHz)



1RB CH 39750 (2506.0MHz) + CH 39948 (2525.8MHz)

1RB CH 41292 (2660.2MHz) + CH 41490 (2680.0MHz)

[RBW = 510 kHz / Reference RBW = 820 kHz]

Worst-case integrated BW power = [Max Measured Value (dBm) with RBW=510kHz] + 10log(820/510)

To compensate for this integration before comparison to the limit, 2.06 dB was added to Ref Lvl Offset.

i.e. 15.00 dB CF + 2.06 dB integration compensation factor = 17.06 dB Ref Lvl Offset

[RBW = 100 kHz / Reference RBW = 820 kHz]

Worst-case integrated BW power = [Max Measured Value (dBm) with RBW=100kHz] + 10log(820/100)

To compensate for this integration before comparison to the limit, 9.14 dB was added to Ref Lvl Offset.

i.e. 15.00 dB CF + 9.14 dB integration compensation factor = 24.14 dB Ref Lvl Offset

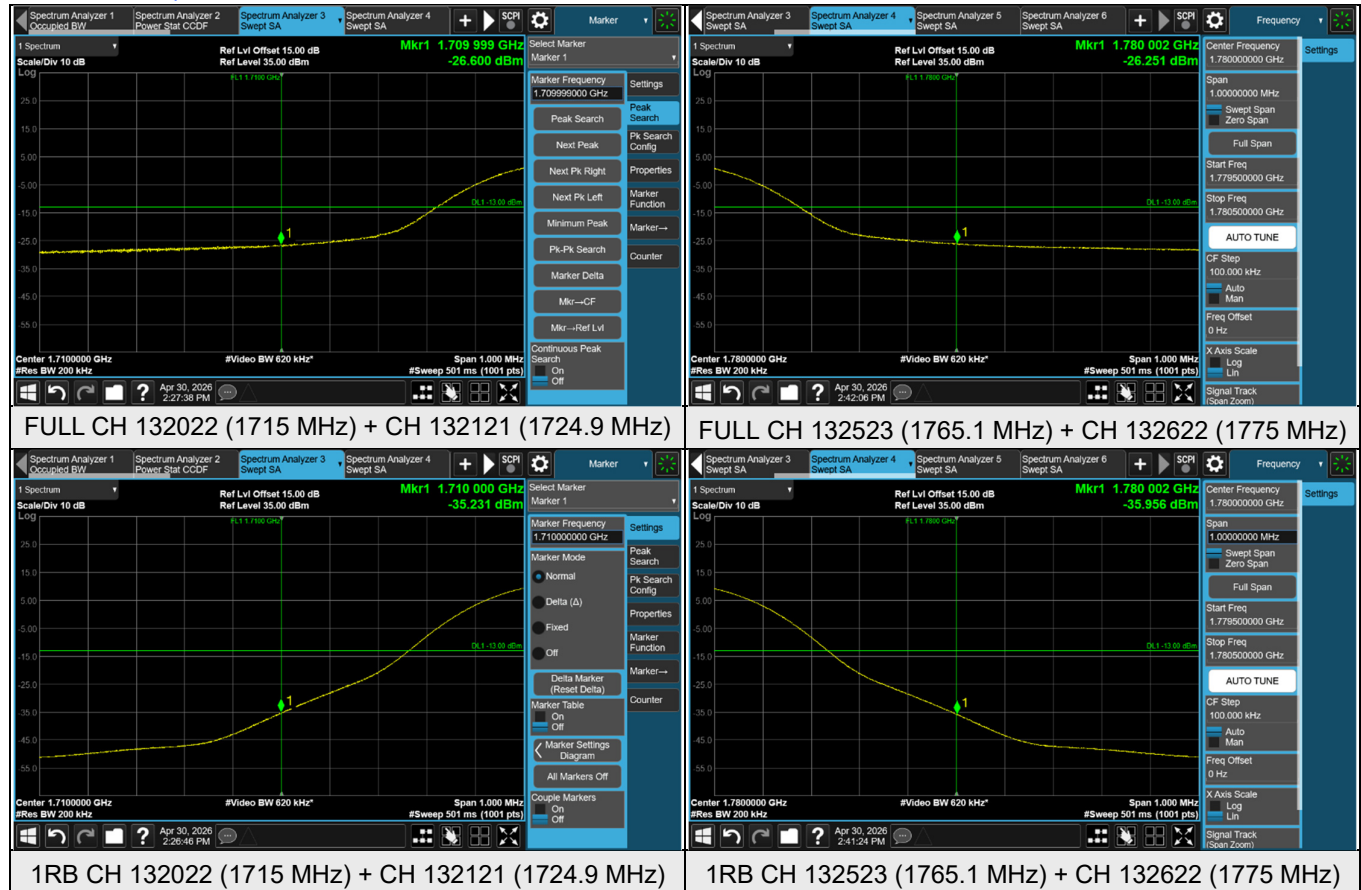
7.4.5 LTE Band 66 (CA 66B)

Channel Bandwidth: 10 MHz+10 MHz



Note: The signal at 9 kHz is IF signal from spectrum analyzer.

Modulation: QPSK



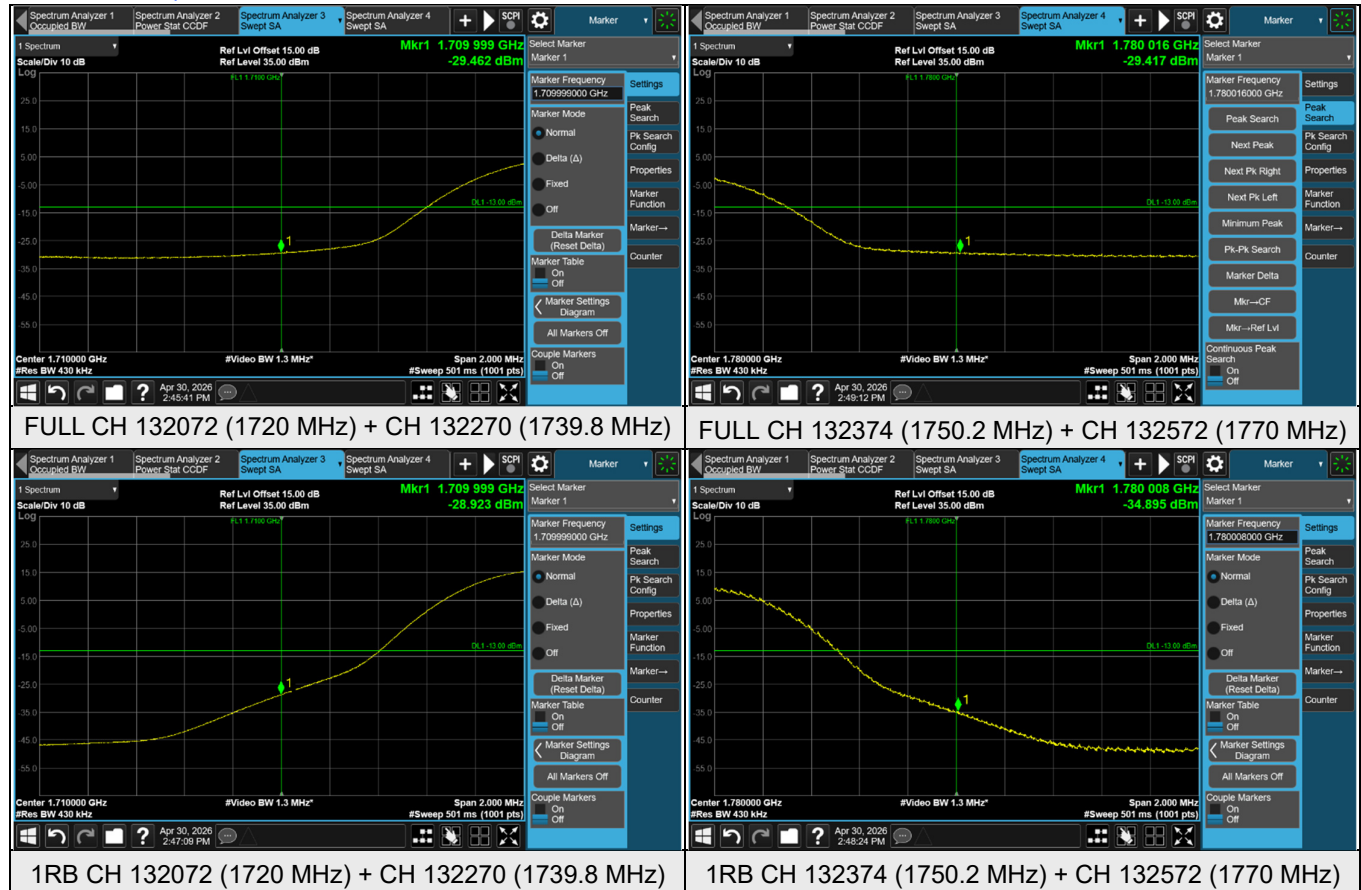
7.4.6 LTE Band 66 (CA 66C)

Channel Bandwidth: 20 MHz+20 MHz



Note: The signal at 9 kHz is IF signal from spectrum analyzer.

Modulation: QPSK



7.5 Radiated Spurious Emissions below 1GHz

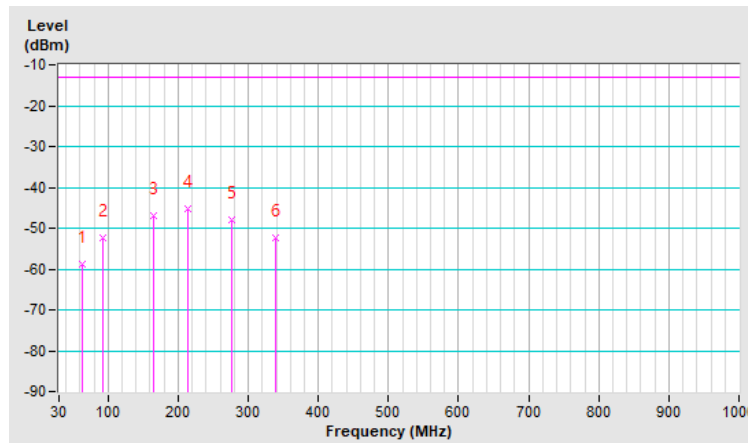
7.5.1 LTE Band 5 (CA 5B)

RF Mode	LTE Band 5 (CA 5B) Channel Bandwidth: 10MHz + 10MHz	Channel	CH 20476 (831.6 MHz) + CH 20575 (841.5 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	63.95	-58.90	-13.00	-45.90	2.00 H	189	51.78	-110.68
2	92.08	-52.38	-13.00	-39.38	2.00 H	161	62.99	-115.37
3	164.83	-47.05	-13.00	-34.05	2.00 H	135	62.84	-109.89
4	214.30	-45.24	-13.00	-32.24	2.00 H	150	67.56	-112.80
5	276.38	-48.11	-13.00	-35.11	1.00 H	117	61.56	-109.67
6	338.46	-52.45	-13.00	-39.45	1.00 H	109	55.69	-108.14

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

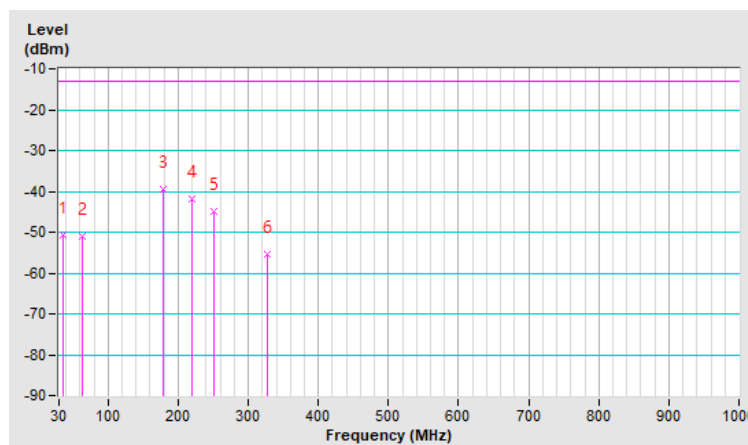


RF Mode	LTE Band 5 (CA 5B) Channel Bandwidth: 10MHz + 10MHz	Channel	CH 20476 (831.6 MHz) + CH 20575 (841.5 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36.79	-50.71	-13.00	-37.71	1.00 V	9	59.33	-110.04
2	63.95	-50.93	-13.00	-37.93	1.00 V	128	59.75	-110.68
3	179.38	-39.54	-13.00	-26.54	2.00 V	126	71.70	-111.24
4	219.15	-41.99	-13.00	-28.99	1.50 V	160	70.92	-112.91
5	250.19	-44.98	-13.00	-31.98	1.00 V	124	65.87	-110.85
6	327.79	-55.40	-13.00	-42.40	1.50 V	75	52.80	-108.20

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.



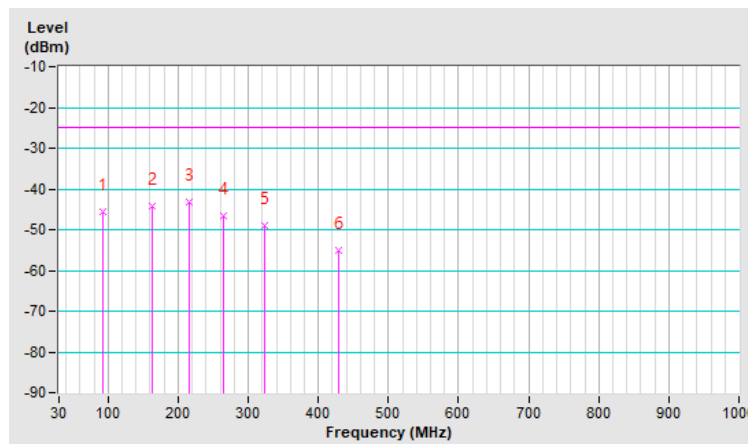
7.5.2 LTE Band 7 (CA 7C)

RF Mode	LTE Band 7 (CA 7C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 21001 (2525.1 MHz) + CH 21199 (2544.9 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

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	92.08	-45.70	-25.00	-20.70	2.00 H	118	67.52	-113.22
2	162.89	-44.21	-25.00	-19.21	2.00 H	123	63.42	-107.63
3	215.27	-43.37	-25.00	-18.37	2.00 H	140	67.29	-110.66
4	263.77	-46.71	-25.00	-21.71	1.00 H	124	61.46	-108.17
5	323.91	-48.96	-25.00	-23.96	1.00 H	117	57.17	-106.13
6	428.67	-55.16	-25.00	-30.16	2.00 H	90	48.30	-103.46

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.

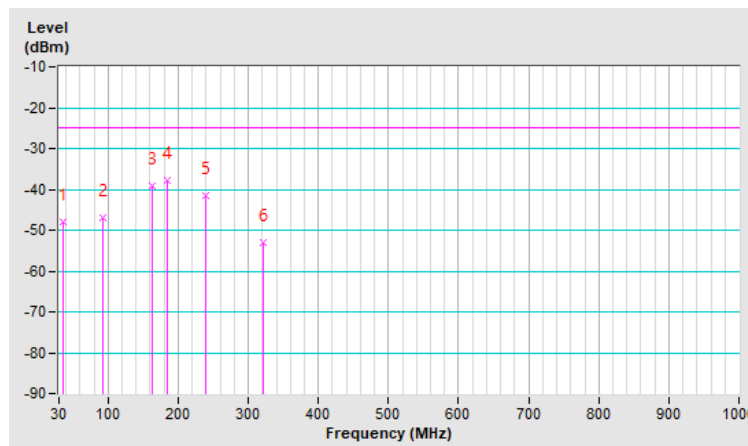


RF Mode	LTE Band 7 (CA 7C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 21001 (2525.1 MHz) + CH 21199 (2544.9 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

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	35.82	-47.94	-25.00	-22.94	1.00 V	104	60.22	-108.16
2	92.08	-47.06	-25.00	-22.06	1.00 V	235	66.16	-113.22
3	162.89	-39.24	-25.00	-14.24	1.00 V	169	68.39	-107.63
4	184.23	-37.70	-25.00	-12.70	1.50 V	134	71.99	-109.69
5	239.52	-41.56	-25.00	-16.56	1.00 V	61	67.55	-109.11
6	321.97	-52.95	-25.00	-27.95	1.00 V	97	53.23	-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.



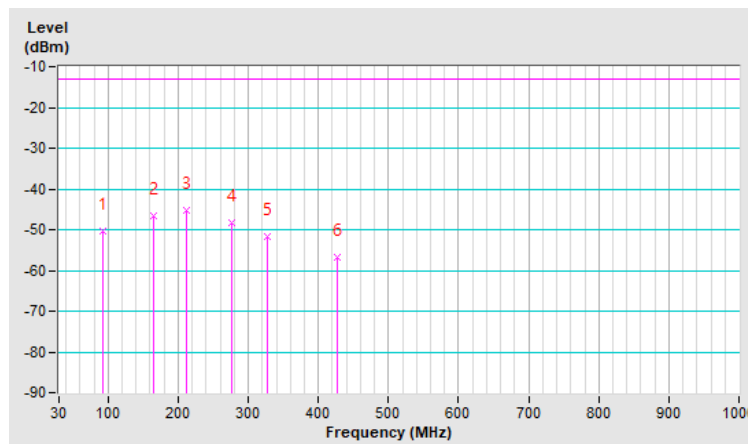
7.5.3 LTE Band 12 (CA 12B)

RF Mode	LTE Band 12 (CA 12B) Channel Bandwidth: 5MHz + 10MHz	Channel	CH 23048 (702.8 MHz) + CH 23120 (710 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	92.08	-50.49	-13.00	-37.49	2.00 H	331	64.88	-115.37
2	164.83	-46.54	-13.00	-33.54	2.00 H	130	63.35	-109.89
3	212.36	-45.15	-13.00	-32.15	2.00 H	150	67.67	-112.82
4	277.35	-48.44	-13.00	-35.44	1.00 H	117	61.18	-109.62
5	327.79	-51.75	-13.00	-38.75	1.00 H	117	56.45	-108.20
6	426.73	-56.67	-13.00	-43.67	2.00 H	104	49.01	-105.68

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit.

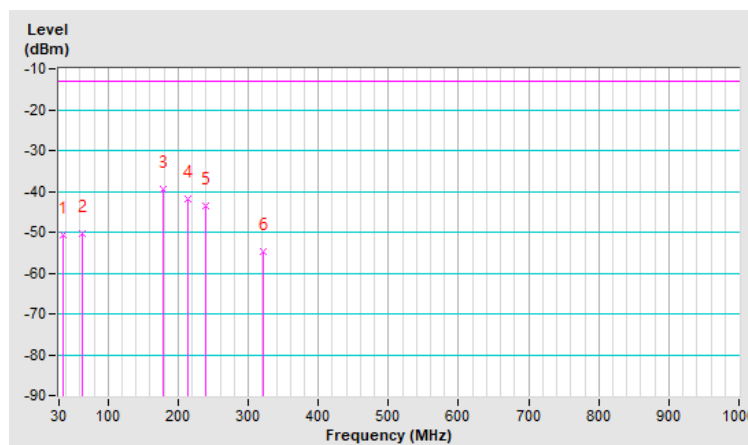


RF Mode	LTE Band 12 (CA 12B) Channel Bandwidth: 5MHz + 10MHz	Channel	CH 23048 (702.8 MHz) + CH 23120 (710 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36.79	-50.57	-13.00	-37.57	2.00 V	18	59.47	-110.04
2	63.95	-50.26	-13.00	-37.26	1.00 V	124	60.42	-110.68
3	179.38	-39.38	-13.00	-26.38	1.00 V	132	71.86	-111.24
4	213.33	-41.94	-13.00	-28.94	1.00 V	139	70.87	-112.81
5	239.52	-43.57	-13.00	-30.57	1.00 V	123	67.69	-111.26
6	321.97	-54.85	-13.00	-41.85	1.00 V	92	53.48	-108.33

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.



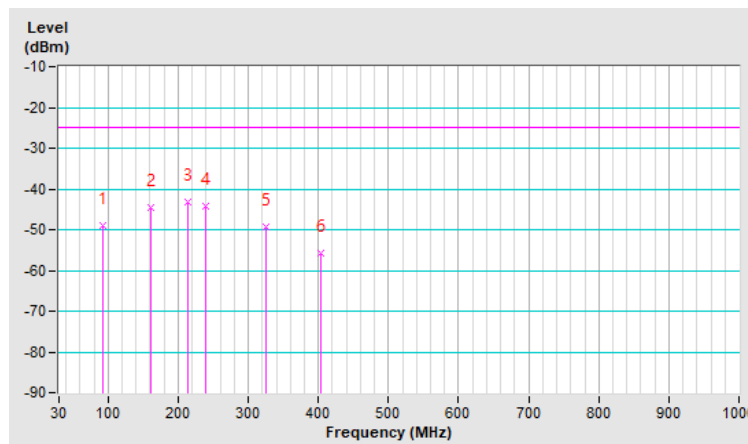
7.5.4 LTE Band 41 (CA 41C)

RF Mode	LTE Band 41 (CA 41C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 40521 (2583.1 MHz) + CH 40719 (2602.9 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

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	92.08	-49.13	-25.00	-24.13	2.00 H	133	64.09	-113.22
2	161.92	-44.63	-25.00	-19.63	2.00 H	113	62.93	-107.56
3	213.33	-43.22	-25.00	-18.22	1.50 H	150	67.44	-110.66
4	238.55	-44.18	-25.00	-19.18	1.00 H	61	65.00	-109.18
5	325.85	-49.18	-25.00	-24.18	1.00 H	130	56.91	-106.09
6	404.42	-55.80	-25.00	-30.80	2.00 H	96	48.52	-104.32

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.

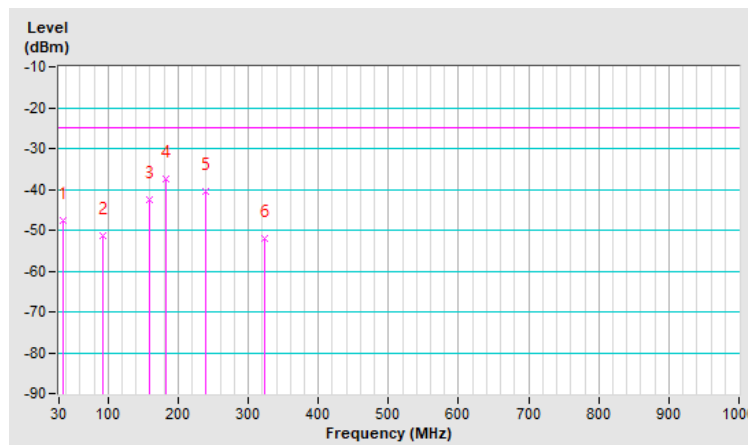


RF Mode	LTE Band 41 (CA 41C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 40521 (2583.1 MHz) + CH 40719 (2602.9 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

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	36.79	-47.55	-25.00	-22.55	1.00 V	88	60.34	-107.89
2	92.08	-51.38	-25.00	-26.38	2.00 V	266	61.84	-113.22
3	159.01	-42.41	-25.00	-17.41	1.00 V	143	65.08	-107.49
4	182.29	-37.47	-25.00	-12.47	1.00 V	131	72.00	-109.47
5	238.55	-40.60	-25.00	-15.60	1.00 V	120	68.58	-109.18
6	322.94	-52.04	-25.00	-27.04	1.50 V	83	54.12	-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.



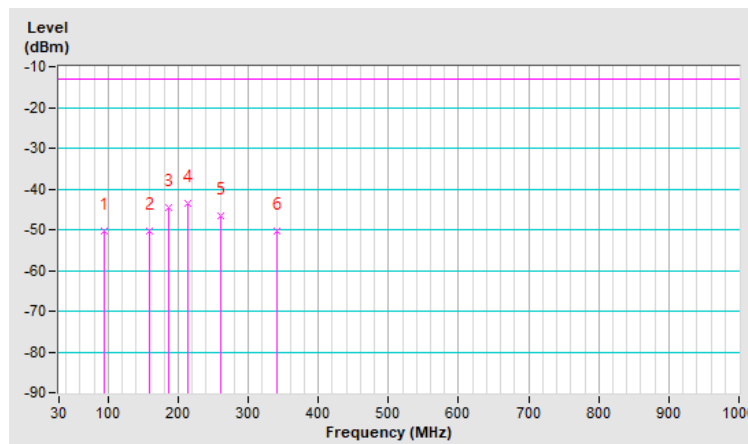
7.5.5 LTE Band 66 (CA 66B)

RF Mode	LTE Band 66 (CA 66B) Channel Bandwidth: 10MHz + 10MHz	Channel	CH 132022 (1715 MHz) + CH 132121 (1724.9 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

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	94.02	-50.31	-13.00	-37.31	2.00 H	148	62.72	-113.03
2	159.01	-50.28	-13.00	-37.28	2.00 H	135	57.21	-107.49
3	186.17	-44.55	-13.00	-31.55	1.00 H	103	65.32	-109.87
4	214.30	-43.52	-13.00	-30.52	2.00 H	140	67.13	-110.65
5	260.86	-46.55	-13.00	-33.55	1.00 H	55	61.79	-108.34
6	340.40	-50.48	-13.00	-37.48	1.00 H	103	55.49	-105.97

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.

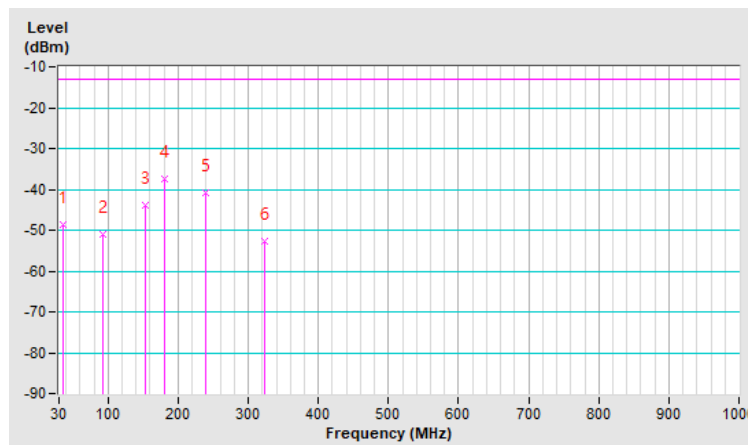


RF Mode	LTE Band 66 (CA 66B) Channel Bandwidth: 10MHz + 10MHz	Channel	CH 132022 (1715 MHz) + CH 132121 (1724.9 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

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	35.82	-48.49	-13.00	-35.49	1.50 V	86	59.67	-108.16
2	92.08	-50.97	-13.00	-37.97	1.50 V	273	62.25	-113.22
3	154.16	-43.93	-13.00	-30.93	1.00 V	169	63.39	-107.32
4	181.32	-37.37	-13.00	-24.37	1.00 V	127	71.97	-109.34
5	239.52	-40.83	-13.00	-27.83	1.00 V	118	68.28	-109.11
6	323.91	-52.60	-13.00	-39.60	1.50 V	82	53.53	-106.13

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.



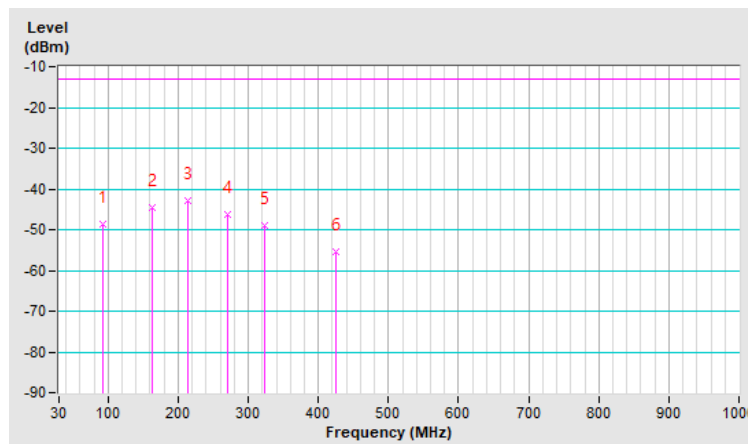
7.5.6 LTE Band 66 (CA 66C)

RF Mode	LTE Band 66 (CA 66C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 132323 (1745.1 MHz) + CH 132521 (1764.9 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

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	92.08	-48.64	-13.00	-35.64	2.00 H	135	64.58	-113.22
2	162.89	-44.63	-13.00	-31.63	2.00 H	134	63.00	-107.63
3	213.33	-42.95	-13.00	-29.95	2.00 H	146	67.71	-110.66
4	269.59	-46.27	-13.00	-33.27	1.00 H	119	61.56	-107.83
5	323.91	-49.10	-13.00	-36.10	1.00 H	115	57.03	-106.13
6	424.79	-55.44	-13.00	-42.44	2.00 H	95	48.17	-103.61

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.

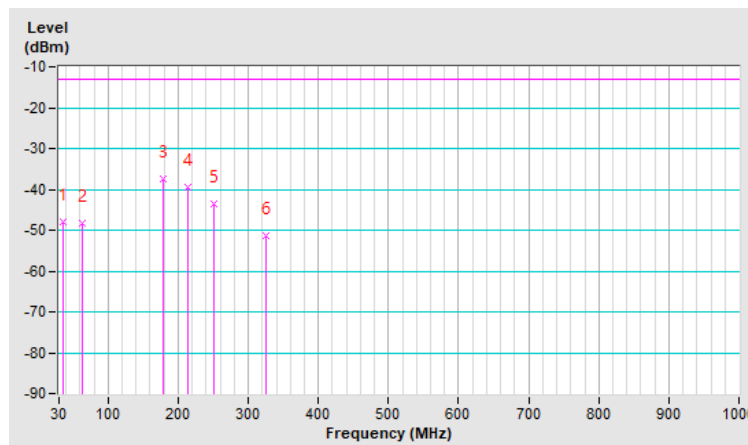


RF Mode	LTE Band 66 (CA 66C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 132323 (1745.1 MHz) + CH 132521 (1764.9 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

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	36.79	-48.12	-13.00	-35.12	1.00 V	11	59.77	-107.89
2	63.95	-48.18	-13.00	-35.18	1.00 V	123	60.35	-108.53
3	179.38	-37.34	-13.00	-24.34	1.00 V	127	71.75	-109.09
4	213.33	-39.43	-13.00	-26.43	1.00 V	140	71.23	-110.66
5	250.19	-43.54	-13.00	-30.54	2.00 V	114	65.16	-108.70
6	324.88	-51.34	-13.00	-38.34	1.50 V	87	54.76	-106.10

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.



7.6 Radiated Spurious Emissions above 1GHz

7.6.1 LTE Band 5 (CA 5B)

RF Mode	LTE Band 5 (CA 5B) Channel Bandwidth: 10MHz + 10MHz	Channel	CH 20450 (829 MHz) + CH 20549 (838.9 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1658.00	-60.25	-13.00	-47.25	2.17 H	153	39.76	-100.01
2	1677.80	-60.48	-13.00	-47.48	2.11 H	168	39.41	-99.89
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1658.00	-58.14	-13.00	-45.14	1.35 V	232	41.87	-100.01
2	1677.80	-58.76	-13.00	-45.76	1.56 V	248	41.13	-99.89

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 5 (CA 5B) Channel Bandwidth: 10MHz + 10MHz	Channel	CH 20450 (829 MHz) + CH 20549 (838.9 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1663.20	-59.60	-13.00	-46.60	1.83 H	271	40.37	-99.97
2	1683.00	-59.12	-13.00	-46.12	1.78 H	268	40.73	-99.85
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1663.20	-57.40	-13.00	-44.40	2.43 V	113	42.57	-99.97
2	1683.00	-57.57	-13.00	-44.57	2.41 V	135	42.28	-99.85

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 5 (CA 5B) Channel Bandwidth: 10MHz + 10MHz	Channel	CH 20501 (834.1 MHz) + CH 20600 (844 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1668.20	-60.19	-13.00	-47.19	2.97 H	112	39.76	-99.95
2	1688.00	-60.49	-13.00	-47.49	2.93 H	97	39.35	-99.84
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1668.20	-58.27	-13.00	-45.27	1.34 V	205	41.68	-99.95
2	1688.00	-58.02	-13.00	-45.02	1.32 V	196	41.82	-99.84

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

7.6.2 LTE Band 7 (CA 7C)

RF Mode	LTE Band 7 (CA 7C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 20850 (2510 MHz) + CH 21048 (2529.8 MHz)
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
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	5020.00	-48.64	-25.00	-23.64	1.34 H	278	40.63	-89.27
2	5059.60	-48.60	-25.00	-23.60	1.27 H	269	40.24	-88.84
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	5020.00	-46.56	-25.00	-21.56	2.46 V	310	42.71	-89.27
2	5059.60	-46.06	-25.00	-21.06	2.38 V	324	42.78	-88.84

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.

RF Mode	LTE Band 7 (CA 7C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 21001 (2525.1 MHz) + CH 21199 (2544.9 MHz)
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
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	5050.20	-46.72	-25.00	-21.72	2.78 H	113	42.17	-88.89
2	5089.80	-46.62	-25.00	-21.62	2.67 H	135	42.07	-88.69
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	5050.20	-44.22	-25.00	-19.22	1.97 V	232	44.67	-88.89
2	5089.80	-44.55	-25.00	-19.55	1.87 V	245	44.14	-88.69

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.

RF Mode	LTE Band 7 (CA 7C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 21152 (2540.2 MHz) + CH 21350 (2560 MHz)
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
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	5080.40	-47.50	-25.00	-22.50	1.63 H	278	41.23	-88.73
2	5120.00	-47.08	-25.00	-22.08	1.58 H	314	41.65	-88.73
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	5080.40	-45.99	-25.00	-20.99	2.71 V	102	42.74	-88.73
2	5120.00	-46.67	-25.00	-21.67	2.65 V	87	42.06	-88.73

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.

7.6.3 LTE Band 12 (CA 12B)

RF Mode	LTE Band 12 (CA 12B) Channel Bandwidth: 5MHz + 10MHz	Channel	CH 23038 (701.8 MHz) + CH 23110 (709 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1403.60	-58.30	-13.00	-45.30	2.43 H	128	41.48	-99.78
2	1418.00	-58.22	-13.00	-45.22	2.34 H	122	41.58	-99.80
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1403.60	-56.57	-13.00	-43.57	1.06 V	278	43.21	-99.78
2	1418.00	-56.69	-13.00	-43.69	1.01 V	269	43.11	-99.80

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit.

RF Mode	LTE Band 12 (CA 12B) Channel Bandwidth: 5MHz + 10MHz	Channel	CH 23048 (702.8 MHz) + CH 23120 (710 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1405.60	-58.09	-13.00	-45.09	2.14 H	123	41.69	-99.78
2	1420.00	-58.91	-13.00	-45.91	2.23 H	119	40.89	-99.80
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1405.60	-55.39	-13.00	-42.39	3.14 V	186	44.39	-99.78
2	1420.00	-55.67	-13.00	-42.67	2.97 V	178	44.13	-99.80

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 12 (CA 12B) Channel Bandwidth: 5MHz + 10MHz	Channel	CH 23058 (703.8 MHz) + CH 23130 (711 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1407.60	-62.10	-13.00	-49.10	2.48 H	193	37.68	-99.78
2	1422.00	-62.49	-13.00	-49.49	2.32 H	189	37.32	-99.81
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1407.60	-58.51	-13.00	-45.51	1.58 V	223	41.27	-99.78
2	1422.00	-58.13	-13.00	-45.13	1.52 V	246	41.68	-99.81

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

7.6.4 LTE Band 41 (CA 41C)

RF Mode	LTE Band 41 (CA 41C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 39750 (2506 MHz) + CH 39948 (2525.8 MHz)
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
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	5012.00	-42.98	-25.00	-17.98	2.17 H	223	46.37	-89.35
2	5051.60	-43.50	-25.00	-18.50	2.12 H	206	45.38	-88.88
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	5012.00	-40.48	-25.00	-15.48	1.09 V	342	48.87	-89.35
2	5051.60	-42.31	-25.00	-17.31	1.16 V	328	46.57	-88.88

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.

RF Mode	LTE Band 41 (CA 41C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 40521 (2583.1 MHz) + CH 40719 (2602.9 MHz)
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
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	5166.20	-38.60	-25.00	-13.60	1.73 H	295	50.34	-88.94
2	5205.80	-40.24	-25.00	-15.24	1.53 H	274	48.86	-89.10
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	5166.20	-35.16	-25.00	-10.16	1.32 V	222	53.78	-88.94
2	5205.80	-36.76	-25.00	-11.76	1.48 V	216	52.34	-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.

RF Mode	LTE Band 41 (CA 41C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 41292 (2660.2 MHz) + CH 41490 (2680 MHz)
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
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	5320.40	-40.73	-25.00	-15.73	1.87 H	257	48.65	-89.38
2	5360.00	-39.92	-25.00	-14.92	1.95 H	268	49.34	-89.26
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	5320.40	-39.63	-25.00	-14.63	2.93 V	132	49.75	-89.38
2	5360.00	-37.73	-25.00	-12.73	2.87 V	100	51.53	-89.26

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.

7.6.5 LTE Band 66 (CA 66B)

RF Mode	LTE Band 66 (CA 66B) Channel Bandwidth: 10MHz + 10MHz	Channel	CH 132022 (1715 MHz) + CH 132121 (1724.9 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
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	3430.00	-49.46	-13.00	-36.46	1.24 H	73	43.12	-92.58
2	3449.80	-50.29	-13.00	-37.29	1.28 H	65	42.13	-92.42
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	3430.00	-47.31	-13.00	-34.31	2.04 V	169	45.27	-92.58
2	3449.80	-48.06	-13.00	-35.06	2.13 V	178	44.36	-92.42

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.

RF Mode	LTE Band 66 (CA 66B) Channel Bandwidth: 10MHz + 10MHz	Channel	CH 132373 (1750.1 MHz) + CH 132472 (1760 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
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	3500.20	-49.34	-13.00	-36.34	2.41 H	120	42.77	-92.11
2	3520.00	-49.90	-13.00	-36.90	2.37 H	136	42.13	-92.03
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	3500.20	-51.46	-13.00	-38.46	1.58 V	13	40.65	-92.11
2	3520.00	-51.46	-13.00	-38.46	1.52 V	16	40.57	-92.03

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.

RF Mode	LTE Band 66 (CA 66B) Channel Bandwidth: 10MHz + 10MHz	Channel	CH 132523 (1765.1 MHz) + CH 132622 (1775 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
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	3530.20	-53.23	-13.00	-40.23	1.20 H	318	38.76	-91.99
2	3550.00	-52.24	-13.00	-39.24	1.29 H	326	39.68	-91.92
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	3530.20	-50.31	-13.00	-37.31	1.43 V	232	41.68	-91.99
2	3550.00	-50.67	-13.00	-37.67	1.38 V	256	41.25	-91.92

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.

7.6.6 LTE Band 66 (CA 66C)

RF Mode	LTE Band 66 (CA 66C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 132072 (1720 MHz) + CH 132270 (1739.8 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
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	3440.00	-49.72	-13.00	-36.72	1.36 H	297	42.78	-92.50
2	3479.60	-49.99	-13.00	-36.99	1.42 H	289	42.25	-92.24
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	3440.00	-47.77	-13.00	-34.77	2.04 V	135	44.73	-92.50
2	3479.60	-47.85	-13.00	-34.85	2.12 V	129	44.39	-92.24

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.

RF Mode	LTE Band 66 (CA 66C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 132323 (1745.1 MHz) + CH 132521 (1764.9 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
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	3490.20	-49.06	-13.00	-36.06	2.78 H	57	43.12	-92.18
2	3529.80	-50.22	-13.00	-37.22	2.69 H	53	41.78	-92.00
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	3490.20	-46.86	-13.00	-33.86	1.88 V	293	45.32	-92.18
2	3529.80	-47.17	-13.00	-34.17	1.74 V	278	44.83	-92.00

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.

RF Mode	LTE Band 66 (CA 66C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 132374 (1750.2 MHz) + CH 132572 (1770 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
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	3500.40	-49.72	-13.00	-36.72	2.74 H	103	42.39	-92.11
2	3540.00	-49.78	-13.00	-36.78	2.54 H	96	42.18	-91.96
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	3500.40	-46.93	-13.00	-33.93	1.36 V	228	45.18	-92.11
2	3540.00	-48.27	-13.00	-35.27	1.32 V	223	43.69	-91.96

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.

7.7 Frequency Stability

Environmental Conditions:	25°C, 67% RH	Tested By:	Kevin Kuo
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7.7.1 LTE Band 5 (CA 5B)

Channel Bandwidth: 10 MHz+10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20450 (829.0 MHz) + CH 20600 (844.0 MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	828.999999	-0.0012	843.999999	-0.0012
3.80	829.000002	0.0024	843.999997	-0.0036
4.37	829.000005	0.0060	844.000002	0.0024

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 20450 (829.0 MHz) + CH 20600 (844.0 MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	828.999997	-0.0036	843.999996	-0.0047
-20	829.000002	0.0024	844.000004	0.0047
-10	828.999997	-0.0036	843.999995	-0.0059
0	829.000002	0.0024	844.000002	0.0024
10	828.999995	-0.0060	843.999997	-0.0036
20	829.000001	0.0012	843.999999	-0.0012
30	829.000005	0.0060	844.000003	0.0036
40	828.999995	-0.0060	844.000001	0.0012
50	829.000003	0.0036	844.000004	0.0047
60	828.999999	-0.0012	844.000001	0.0012
70	828.999999	-0.0012	843.999997	-0.0036
80	828.999995	-0.0060	844.000002	0.0024
85	829.000003	0.0036	844.000001	0.0012

7.7.2 LTE Band 7 (CA 7C)

Channel Bandwidth: 20 MHz+20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20850 (2510.0 MHz) + CH 21350 (2560.0 MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	2509.999999	-0.0004	2559.999998	-0.0008
3.80	2509.999995	-0.0020	2560.000003	0.0012
4.37	2509.999996	-0.0016	2559.999999	-0.0004

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 20850 (2510.0 MHz) + CH 21350 (2560.0 MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2510.000001	0.0004	2560.000003	0.0012
-20	2510.000005	0.0020	2560.000004	0.0016
-10	2510.000003	0.0012	2559.999996	-0.0016
0	2509.999998	-0.0008	2560.000003	0.0012
10	2510.000004	0.0016	2560.000001	0.0004
20	2509.999997	-0.0012	2560.000004	0.0016
30	2510.000003	0.0012	2559.999996	-0.0016
40	2510.000002	0.0008	2559.999997	-0.0012
50	2509.999997	-0.0012	2560.000002	0.0008
60	2509.999997	-0.0012	2559.999996	-0.0016
70	2510.000004	0.0016	2559.999996	-0.0016
80	2510.000003	0.0012	2560.000001	0.0004
85	2509.999998	-0.0008	2559.999995	-0.0020

7.7.3 LTE Band 12 (CA 12B)

Channel Bandwidth: 5 MHz+10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23038 (701.8 MHz) + CH 23130 (711 MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	701.799997	-0.0043	710.999998	-0.0028
3.80	701.799998	-0.0028	711.000002	0.0028
4.37	701.800004	0.0057	710.999997	-0.0042

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23038 (701.8 MHz) + CH 23130 (711 MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	701.799999	-0.0014	711.000003	0.0042
-20	701.799995	-0.0071	710.999995	-0.0070
-10	701.800001	0.0014	711.000004	0.0056
0	701.799997	-0.0043	711.000005	0.0070
10	701.800005	0.0071	711.000002	0.0028
20	701.800001	0.0014	711.000001	0.0014
30	701.800001	0.0014	711.000003	0.0042
40	701.799996	-0.0057	711.000002	0.0028
50	701.800005	0.0071	710.999998	-0.0028
60	701.799995	-0.0071	711.000002	0.0028
70	701.799998	-0.0028	711.000004	0.0056
80	701.799996	-0.0057	711.000002	0.0028
85	701.799999	-0.0014	711.000004	0.0056

7.7.4 LTE Band 41 (CA 41C)

Channel Bandwidth: 20 MHz+20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 39750 (2506.0MHz) + CH 41490 (2680.0MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	2506.000005	0.0020	2679.999996	-0.0015
3.80	2506.000003	0.0012	2679.999996	-0.0015
4.37	2505.999996	-0.0016	2679.999998	-0.0007

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 39750 (2506.0MHz) + CH 41490 (2680.0MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2506.000002	0.0008	2680.000002	0.0007
-20	2506.000005	0.0020	2679.999995	-0.0019
-10	2505.999995	-0.0020	2679.999998	-0.0007
0	2506.000005	0.0020	2680.000002	0.0007
10	2506.000001	0.0004	2680.000002	0.0007
20	2506.000004	0.0016	2680.000005	0.0019
30	2506.000004	0.0016	2679.999997	-0.0011
40	2505.999999	-0.0004	2679.999997	-0.0011
50	2506.000001	0.0004	2679.999995	-0.0019
60	2506.000003	0.0012	2680.000004	0.0015
70	2506.000003	0.0012	2679.999998	-0.0007
80	2505.999998	-0.0008	2680.000002	0.0007
85	2505.999999	-0.0004	2679.999997	-0.0011

7.7.5 LTE Band 66 (CA 66B)

Channel Bandwidth: 10 MHz+10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 132022 (1715.0 MHz) + CH 132622 (1775.0 MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1715.000002	0.0012	1774.999997	-0.0017
3.80	1714.999997	-0.0017	1774.999999	-0.0006
4.37	1714.999996	-0.0023	1775.000004	0.0023

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 132022 (1715.0 MHz) + CH 132622 (1775.0 MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1715.000004	0.0023	1775.000003	0.0017
-20	1714.999999	-0.0006	1774.999995	-0.0028
-10	1715.000005	0.0029	1775.000002	0.0011
0	1714.999995	-0.0029	1775.000004	0.0023
10	1715.000001	0.0006	1775.000004	0.0023
20	1715.000004	0.0023	1774.999997	-0.0017
30	1715.000003	0.0017	1775.000004	0.0023
40	1714.999995	-0.0029	1774.999999	-0.0006
50	1714.999997	-0.0017	1774.999995	-0.0028
60	1714.999996	-0.0023	1774.999998	-0.0011
70	1714.999997	-0.0017	1774.999996	-0.0023
80	1714.999996	-0.0023	1775.000004	0.0023
85	1714.999999	-0.0006	1775.000001	0.0006

7.7.6 LTE Band 66 (CA 66C)

Channel Bandwidth: 20 MHz+20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 132072 (1720.0 MHz) + CH 132572 (1770.0 MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1719.999997	-0.0017	1770.000003	0.0017
3.80	1720.000005	0.0029	1770.000004	0.0023
4.37	1719.999998	-0.0012	1769.999999	-0.0006

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 132072 (1720.0 MHz) + CH 132572 (1770.0 MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1719.999997	-0.0017	1770.000001	0.0006
-20	1719.999996	-0.0023	1770.000005	0.0028
-10	1720.000005	0.0029	1769.999998	-0.0011
0	1719.999999	-0.0006	1769.999999	-0.0006
10	1719.999998	-0.0012	1770.000003	0.0017
20	1719.999996	-0.0023	1769.999998	-0.0011
30	1719.999997	-0.0017	1770.000003	0.0017
40	1720.000002	0.0012	1770.000002	0.0011
50	1719.999995	-0.0029	1770.000004	0.0023
60	1719.999995	-0.0029	1770.000004	0.0023
70	1720.000003	0.0017	1770.000002	0.0011
80	1720.000001	0.0006	1769.999999	-0.0006
85	1719.999996	-0.0023	1770.000003	0.0017

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 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 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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