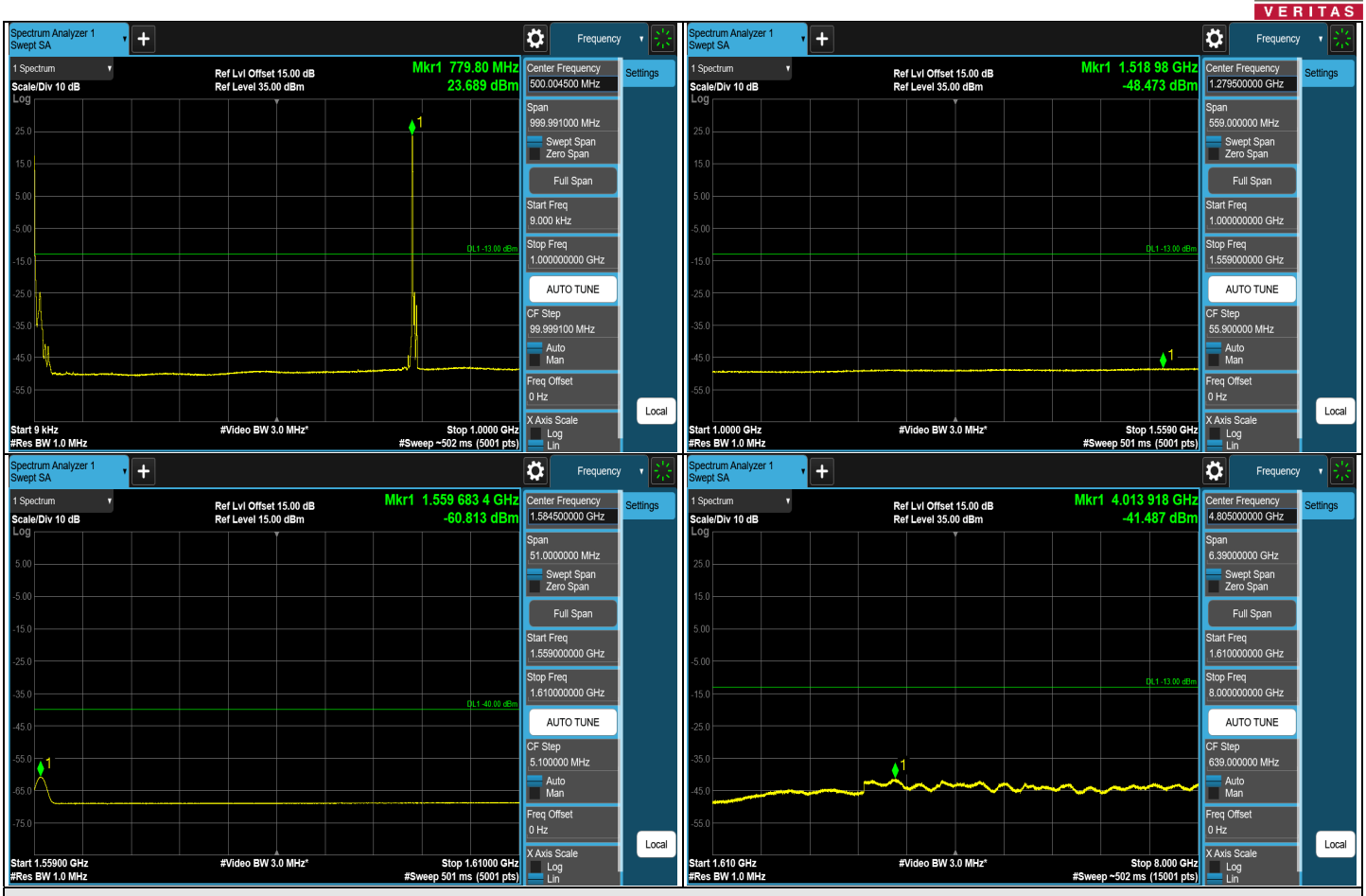
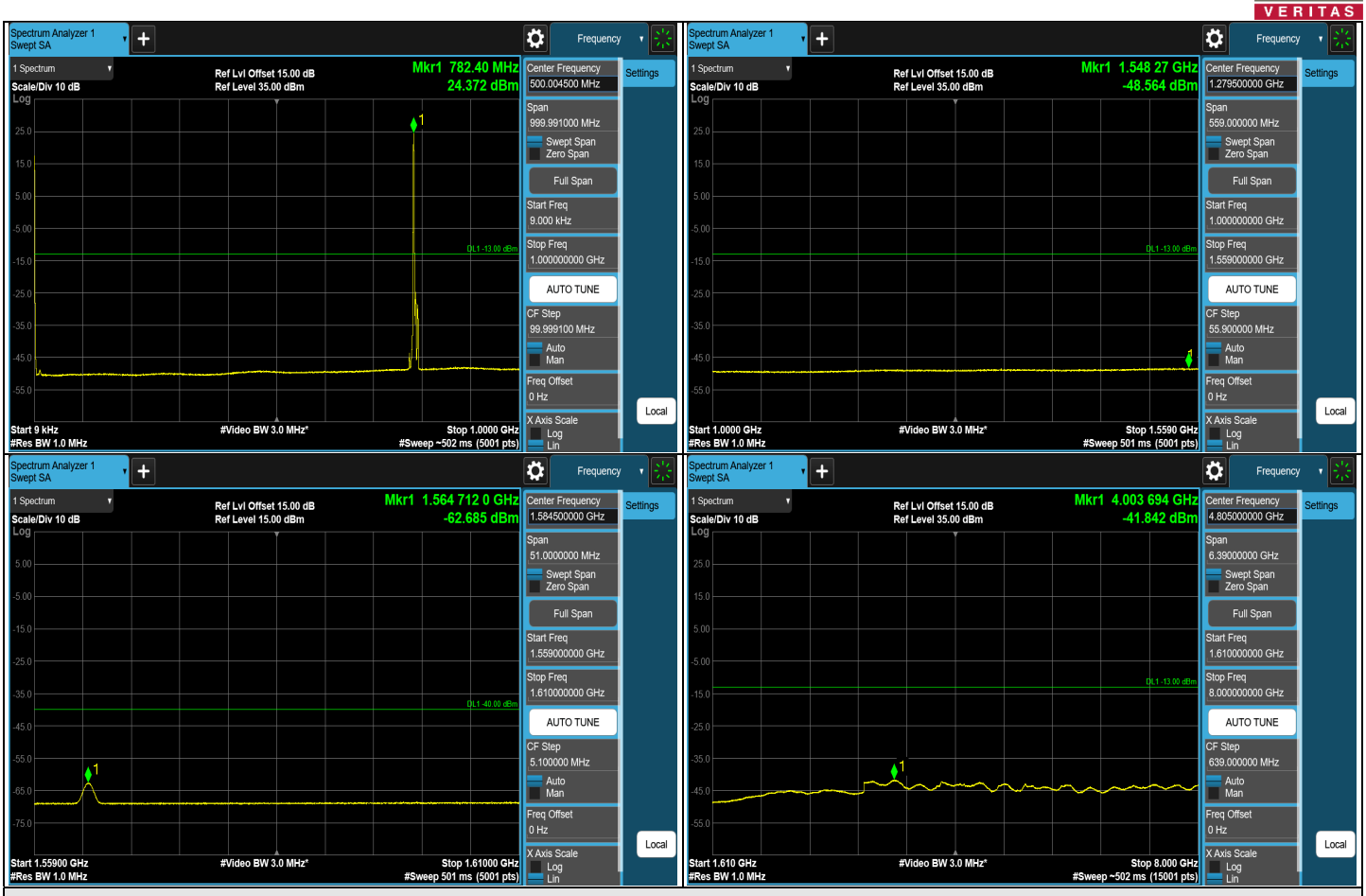


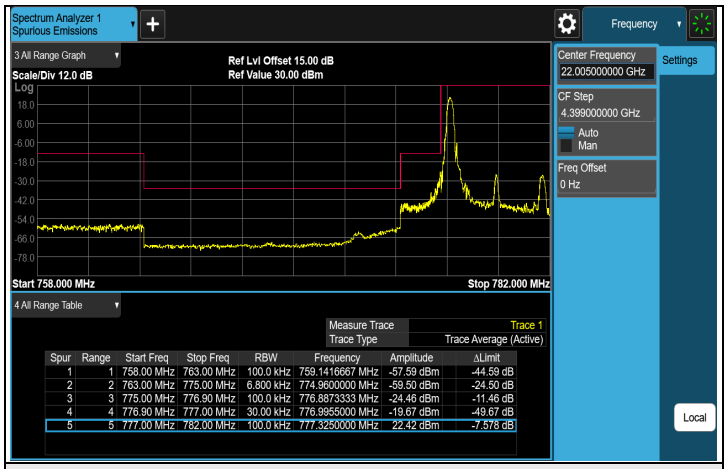
CH 23230 (782 MHz)

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

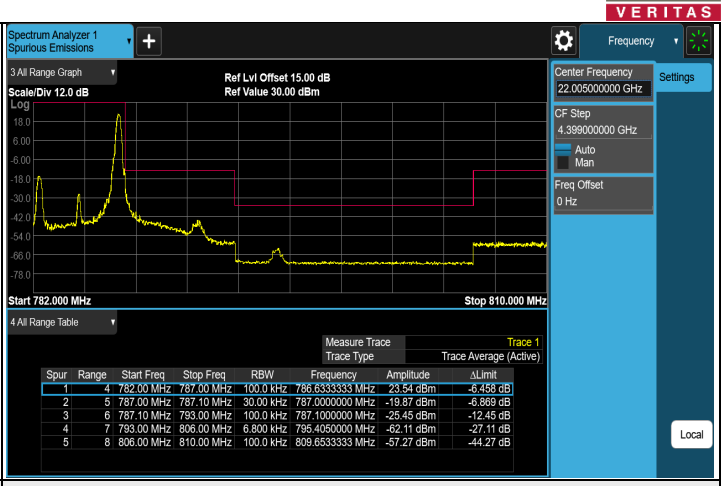


CH 23255 (784.5 MHz)

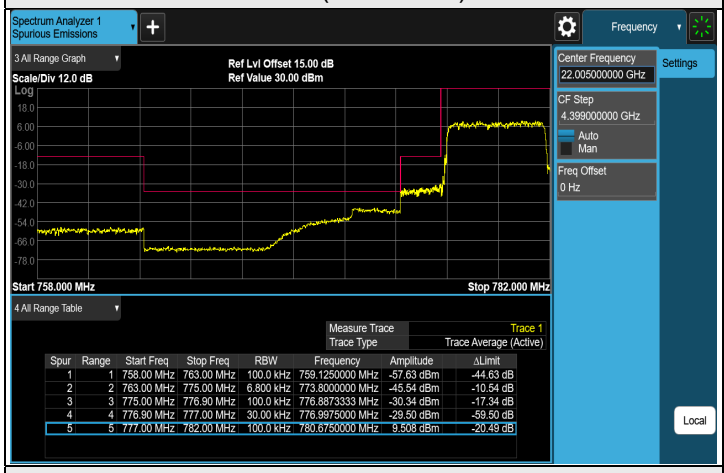
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



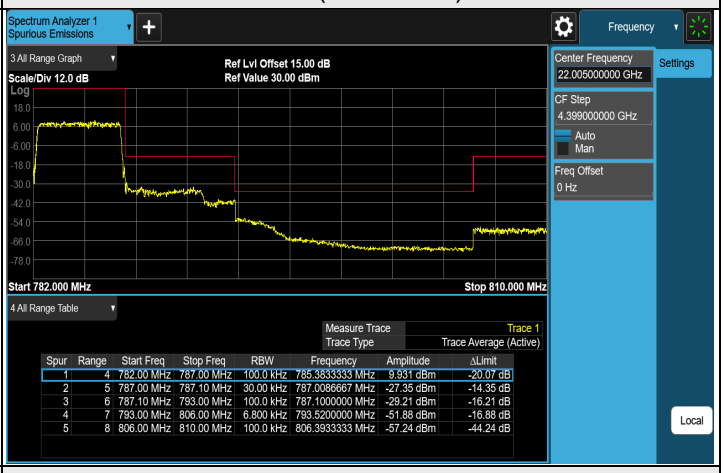
1RB (779.5 MHz)



1RB (784.5 MHz)

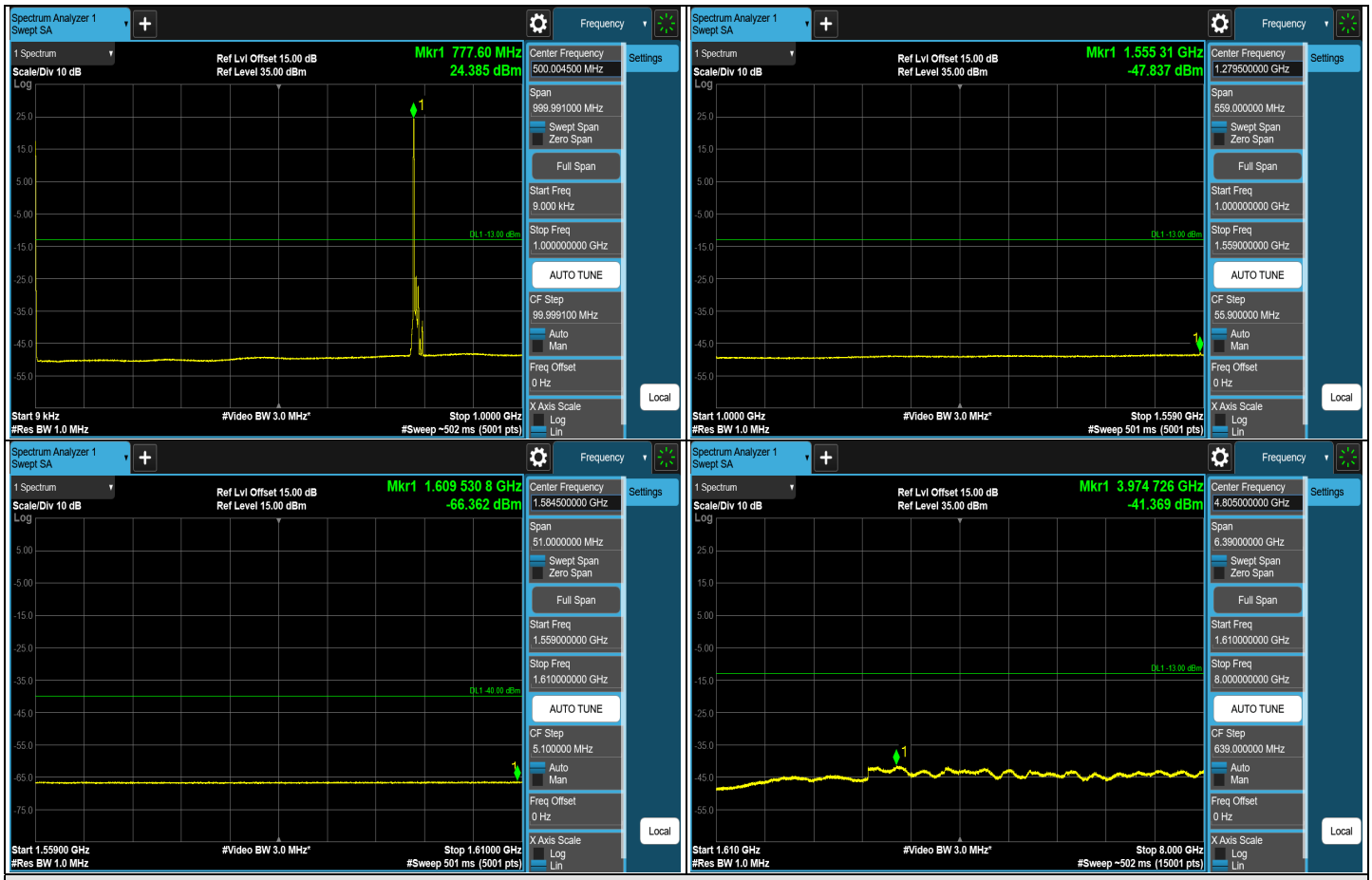


FULL (779.5 MHz)



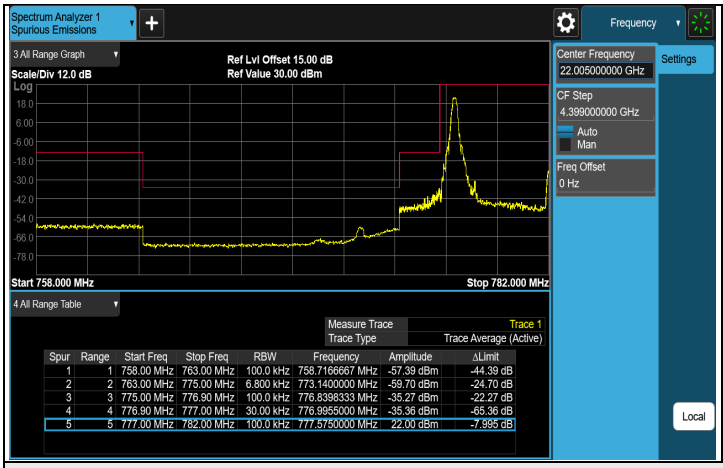
FULL (784.5 MHz)

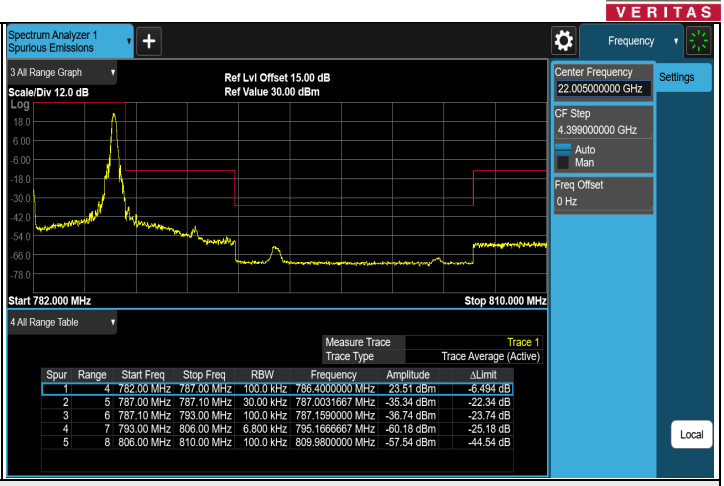
LTE Band 13, Channel Bandwidth: 10 MHz



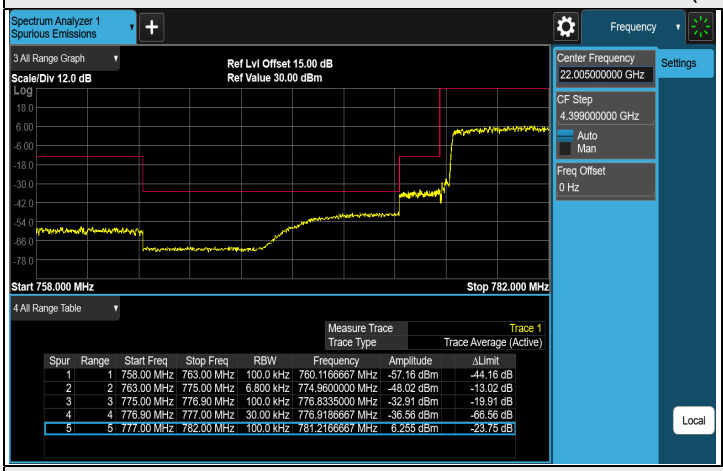
CH 23230 (782 MHz)

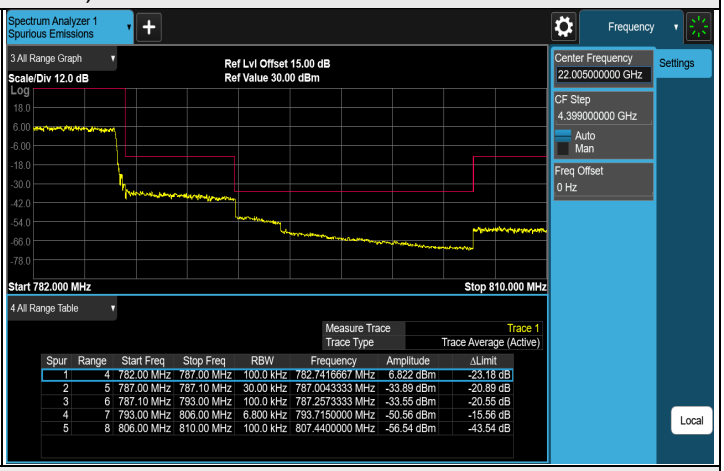
Note: The signal at 9 kHz is IF signal from spectrum analyzer.





1RB (782 MHz)

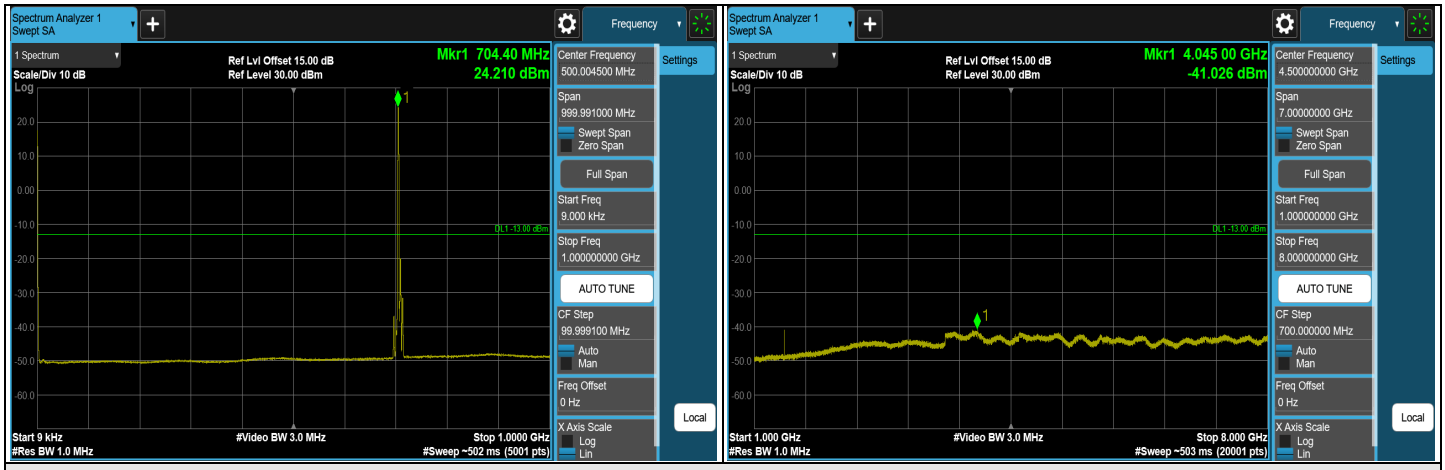




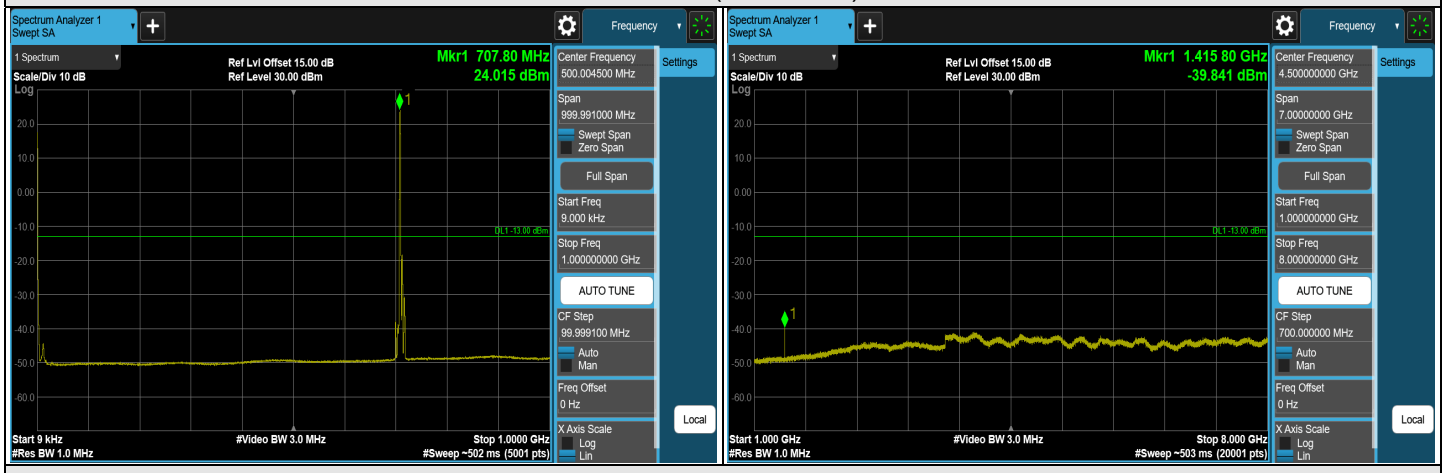
FULL (782 MHz)

7.5.12 LTE Band 17

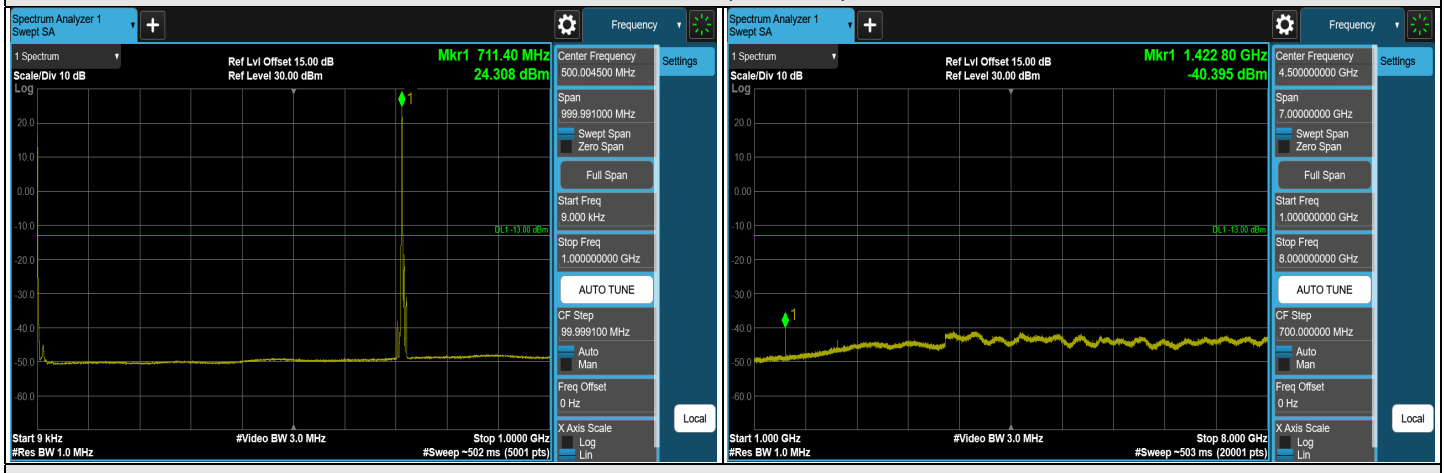
LTE Band 17, Channel Bandwidth: 5 MHz



CH 23755 (706.5 MHz)

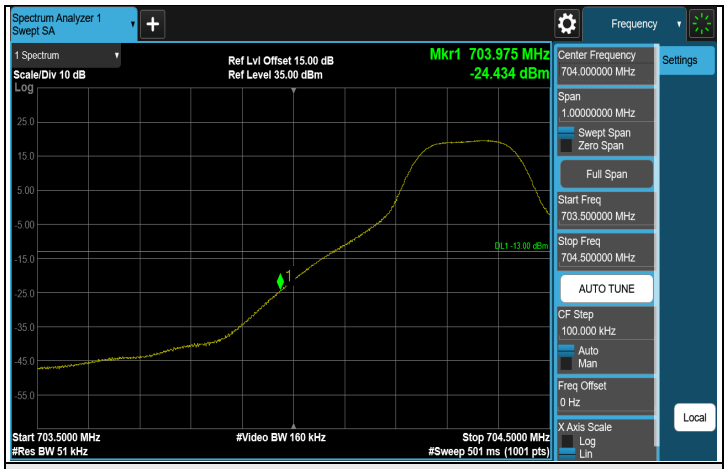


CH 23790 (710 MHz)

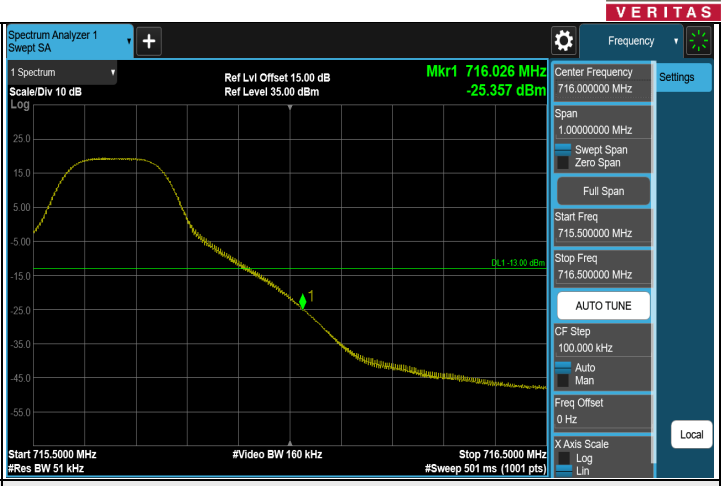


CH 23825 (713.5 MHz)

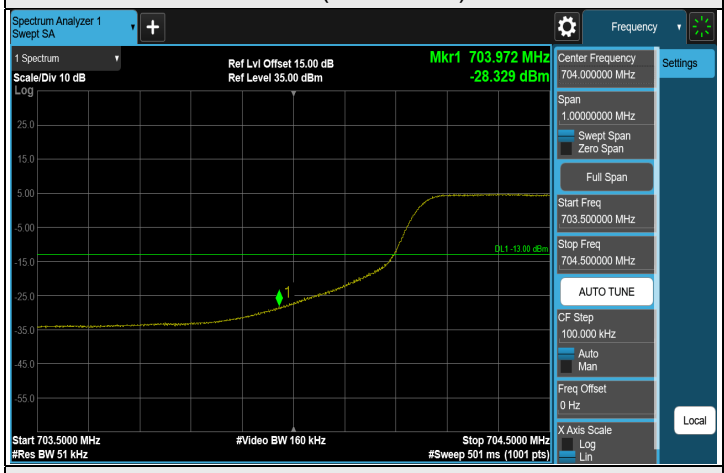
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



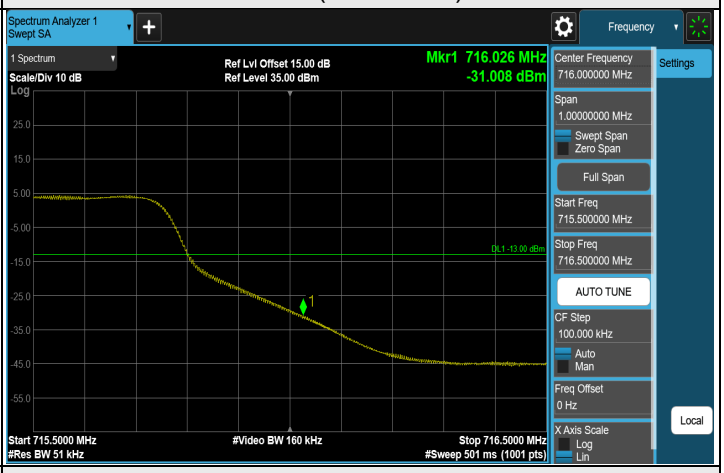
1RB (706.5 MHz)



1RB (713.5 MHz)

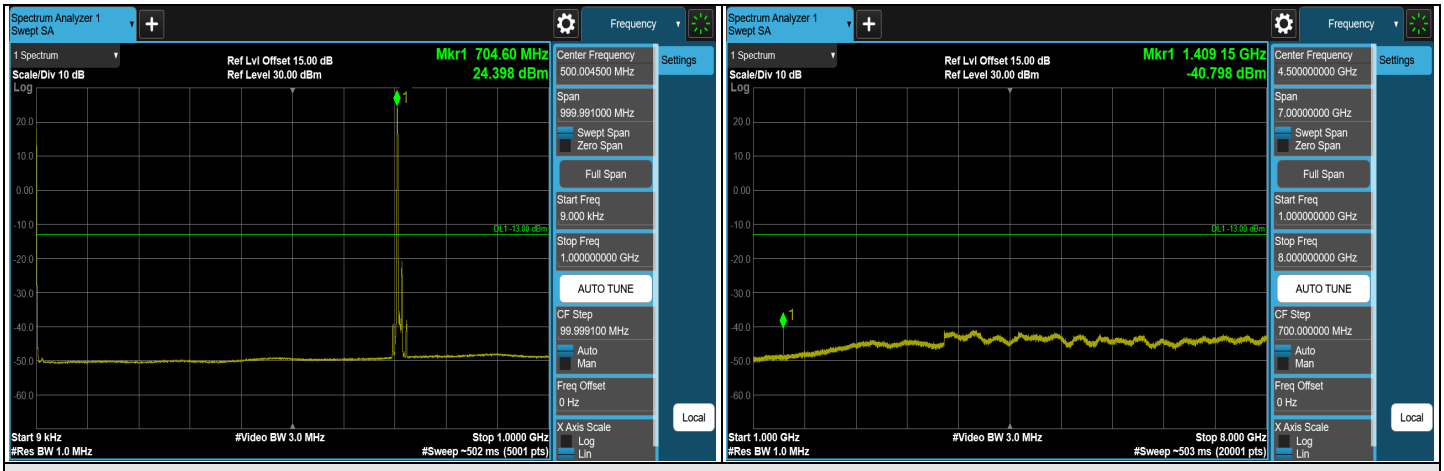


FULL (706.5 MHz)

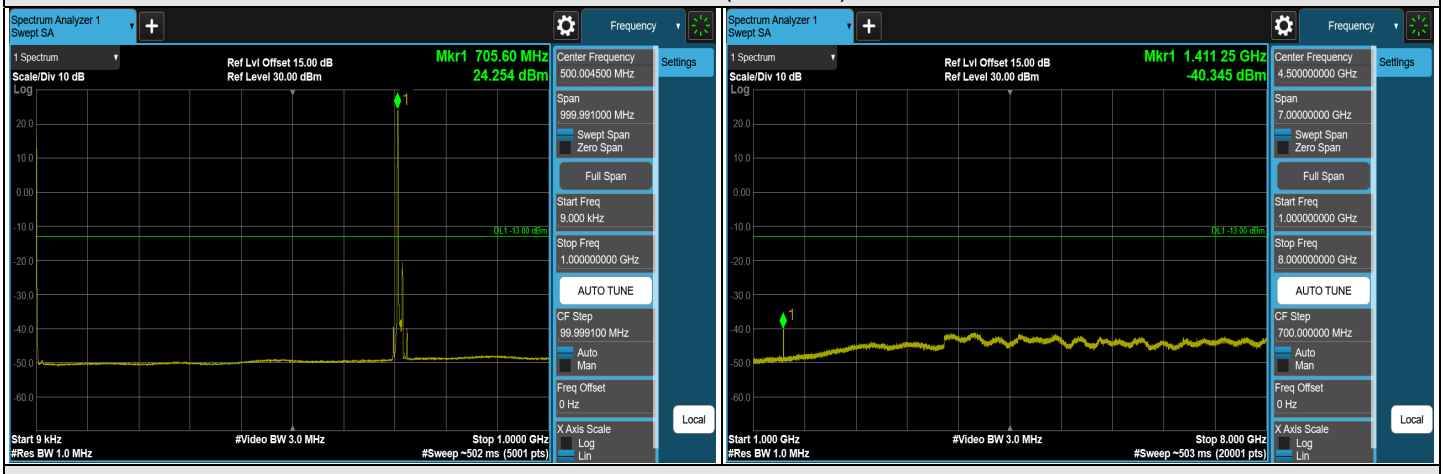


FULL (713.5 MHz)

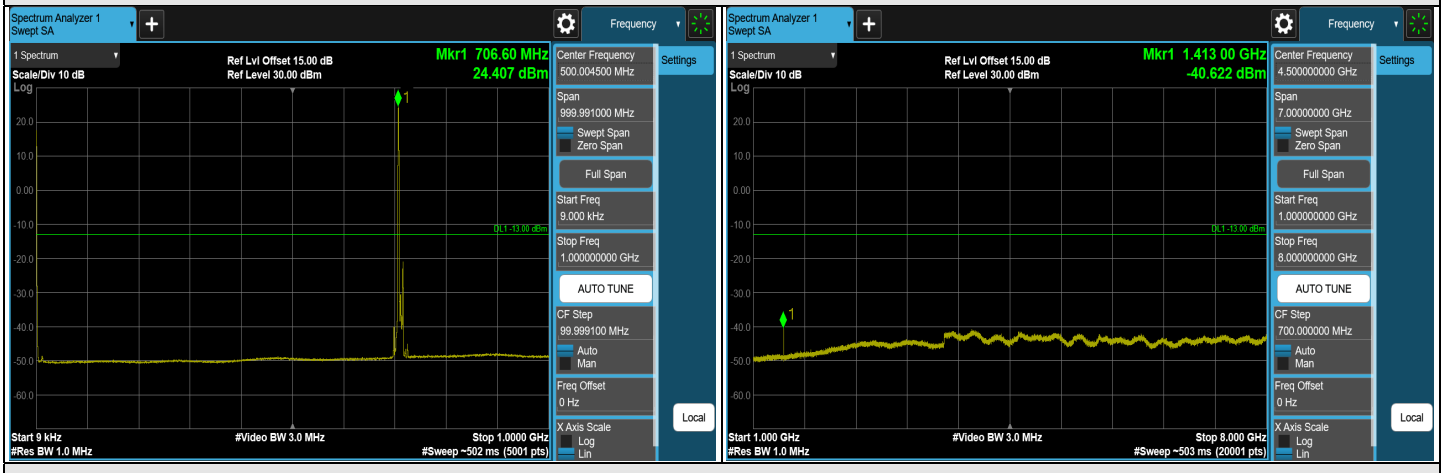
LTE Band 17, Channel Bandwidth: 10 MHz



CH 23780 (709 MHz)

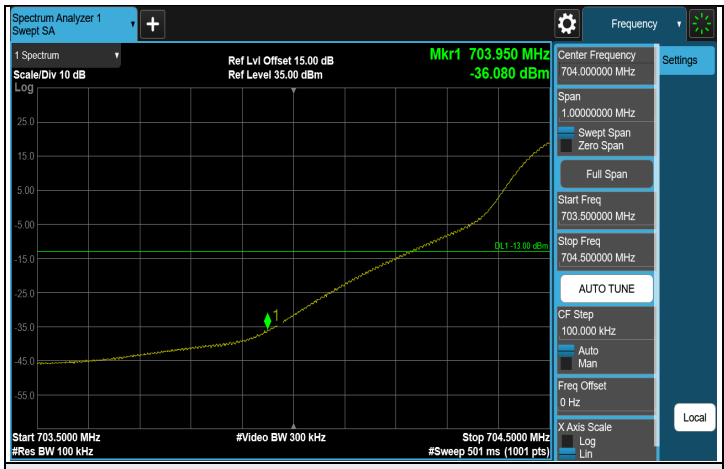


CH 23790 (710 MHz)

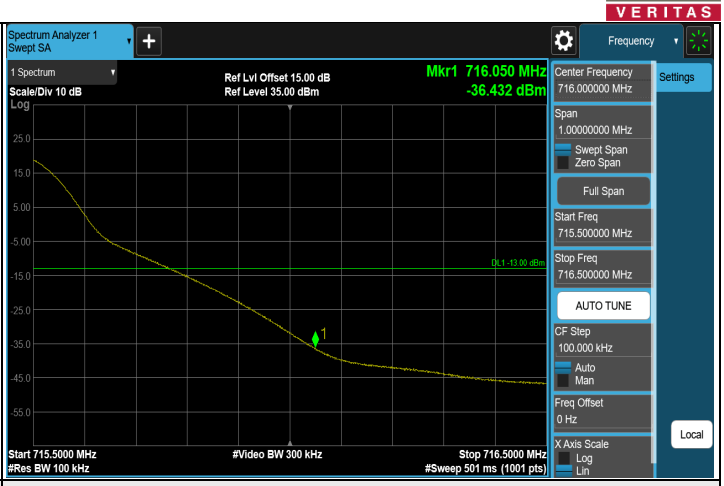


CH 23800 (711 MHz)

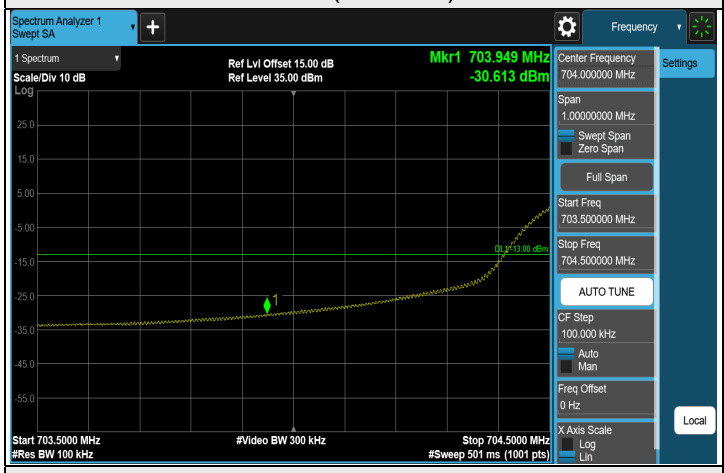
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



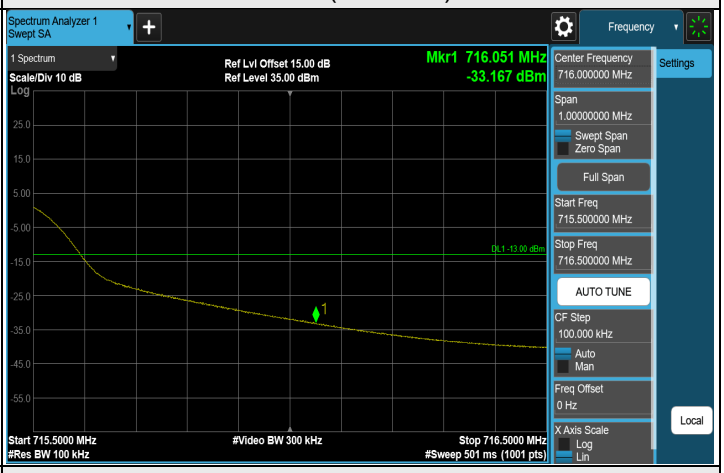
1RB (709 MHz)



1RB (711 MHz)



FULL (709 MHz)



FULL (711 MHz)

7.6 Radiated Spurious Emissions below 1GHz

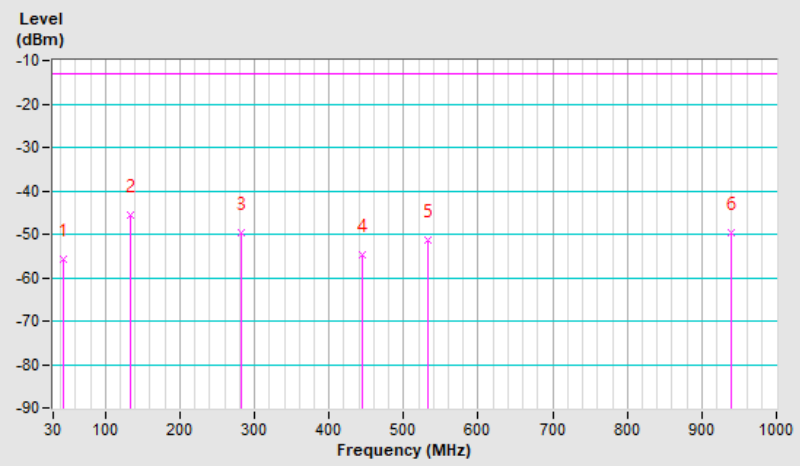
7.6.1 GSM 850

RF Mode	GSM 850	Channel	CH 251：848.80 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, 70% RH
Tested By	Greg Lin		

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	44.55	-55.85	-13.00	-42.85	2.00 H	224	54.85	-110.70
2	133.79	-45.75	-13.00	-32.75	2.00 H	2	65.72	-111.47
3	283.17	-49.51	-13.00	-36.51	1.26 H	12	60.93	-110.44
4	445.16	-54.91	-13.00	-41.91	2.00 H	258	51.32	-106.23
5	533.43	-51.39	-13.00	-38.39	1.51 H	186	53.34	-104.73
6	939.86	-49.65	-13.00	-36.65	1.01 H	132	48.55	-98.20

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9kHz~30MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

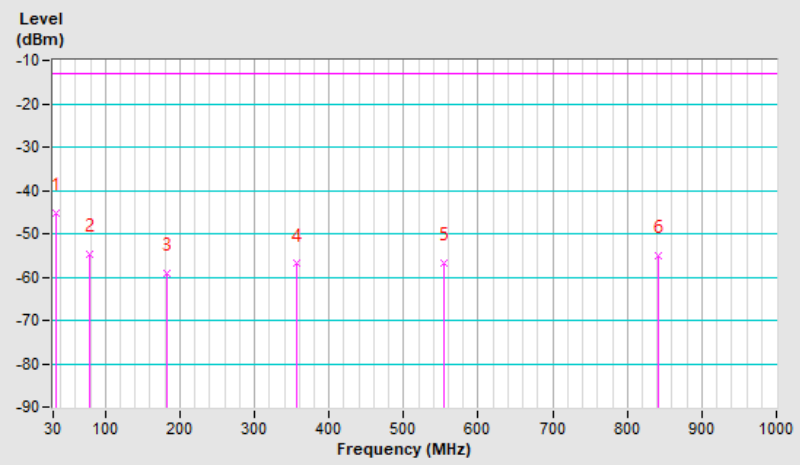


RF Mode	GSM 850	Channel	CH 251：848.80 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 70% RH
Tested By	Greg Lin		

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	33.88	-45.30	-13.00	-32.30	1.00 V	307	66.26	-111.56
2	79.47	-54.81	-13.00	-41.81	1.00 V	121	60.63	-115.44
3	183.26	-59.05	-13.00	-46.05	1.99 V	158	53.50	-112.55
4	355.92	-56.95	-13.00	-43.95	1.49 V	182	52.06	-109.01
5	554.77	-56.74	-13.00	-43.74	1.00 V	246	47.55	-104.29
6	840.92	-54.93	-13.00	-41.93	1.99 V	18	44.38	-99.31

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



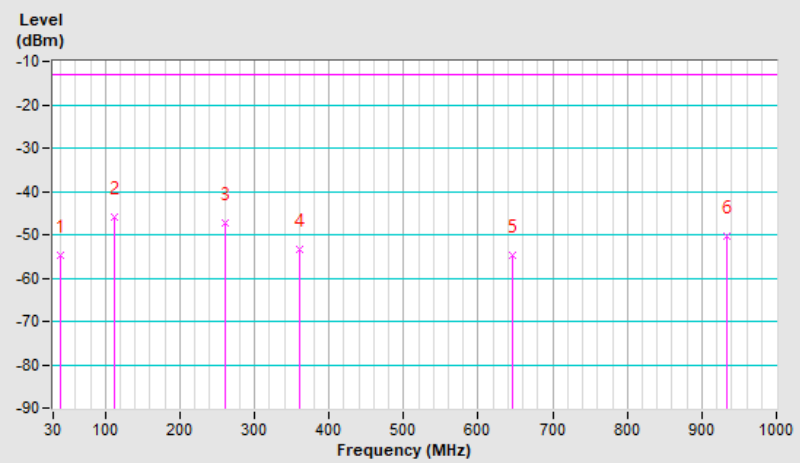
7.6.2 EDGE 850

RF Mode	EDGE 850	Channel	CH 251：848.80 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, 70% RH
Tested By	Greg Lin		

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	40.67	-54.64	-13.00	-41.64	2.00 H	35	56.34	-110.98
2	112.45	-45.78	-13.00	-32.78	2.00 H	245	67.64	-113.42
3	260.86	-47.24	-13.00	-34.24	1.26 H	2	64.37	-111.61
4	360.77	-53.53	-13.00	-40.53	1.01 H	250	55.36	-108.89
5	645.95	-54.67	-13.00	-41.67	1.01 H	201	47.55	-102.22
6	933.07	-50.36	-13.00	-37.36	1.26 H	191	47.95	-98.31

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

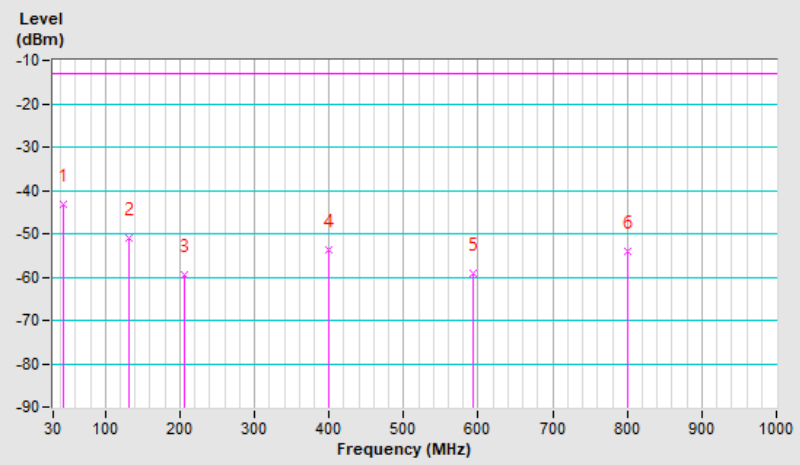


RF Mode	EDGE 850	Channel	CH 251：848.80 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 70% RH
Tested By	Greg Lin		

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	43.58	-43.24	-13.00	-30.24	1.00 V	306	67.54	-110.78
2	130.88	-51.15	-13.00	-38.15	1.00 V	286	60.63	-111.78
3	205.57	-59.66	-13.00	-46.66	1.24 V	226	54.65	-114.31
4	400.54	-53.78	-13.00	-40.78	1.24 V	195	53.93	-107.71
5	593.57	-59.06	-13.00	-46.06	1.00 V	185	44.10	-103.16
6	801.15	-53.99	-13.00	-40.99	1.99 V	17	45.86	-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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



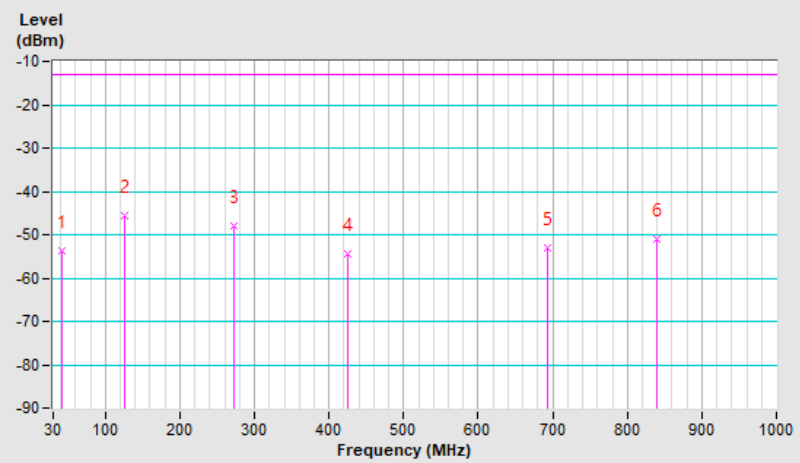
7.6.3 PCS 1900

RF Mode	PCS 1900	Channel	CH 810：1909.8 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, 70% RH
Tested By	Greg Lin		

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	41.64	-53.72	-13.00	-40.72	2.00 H	178	54.96	-108.68
2	125.06	-45.44	-13.00	-32.44	1.51 H	224	64.75	-110.19
3	272.50	-47.94	-13.00	-34.94	1.26 H	2	60.88	-108.82
4	425.76	-54.25	-13.00	-41.25	2.00 H	239	50.58	-104.83
5	692.51	-52.89	-13.00	-39.89	1.01 H	255	46.59	-99.48
6	839.95	-51.11	-13.00	-38.11	1.51 H	190	46.04	-97.15

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

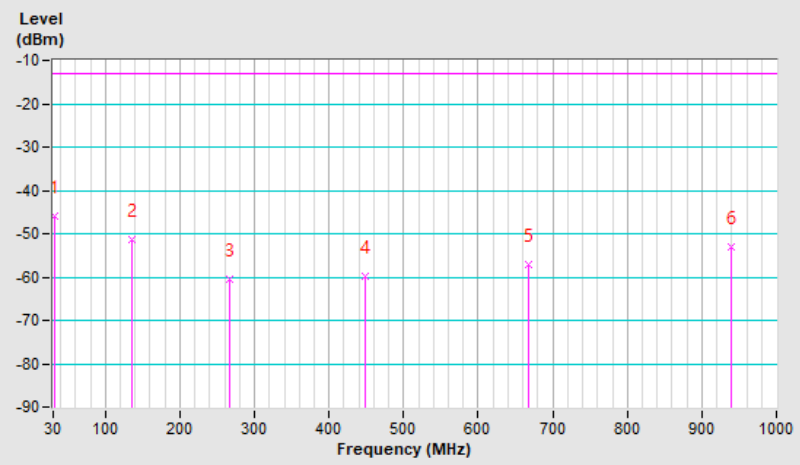


RF Mode	PCS 1900	Channel	CH 810：1909.8 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 70% RH
Tested By	Greg Lin		

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	32.91	-45.81	-13.00	-32.81	1.00 V	329	63.89	-109.70
2	135.73	-51.41	-13.00	-38.41	1.00 V	342	57.75	-109.16
3	266.68	-60.66	-13.00	-47.66	1.49 V	281	48.52	-109.18
4	449.04	-59.85	-13.00	-46.85	1.49 V	342	44.11	-103.96
5	667.29	-56.97	-13.00	-43.97	1.49 V	56	42.95	-99.92
6	939.86	-53.19	-13.00	-40.19	1.00 V	187	42.86	-96.05

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



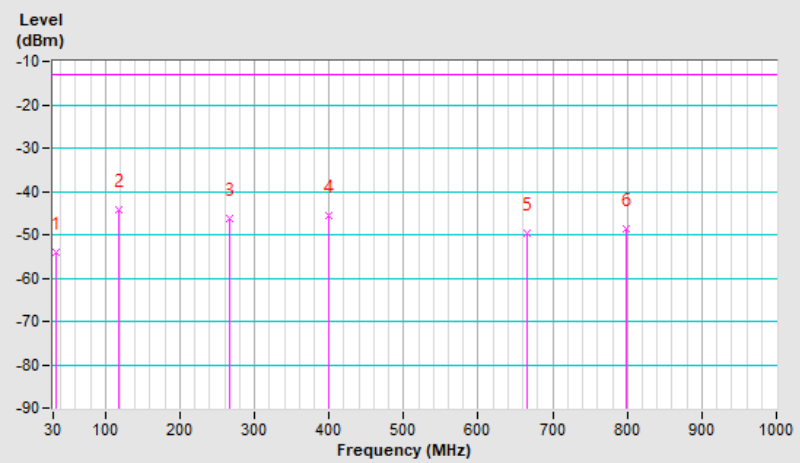
7.6.4 EDGE 1900

RF Mode	EDGE 1900	Channel	CH 810：1909.8 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, 70% RH
Tested By	Greg Lin		

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	33.88	-54.09	-13.00	-41.09	2.00 H	120	55.32	-109.41
2	118.27	-44.10	-13.00	-31.10	2.00 H	239	66.63	-110.73
3	266.68	-46.12	-13.00	-33.12	1.26 H	2	63.06	-109.18
4	400.54	-45.50	-13.00	-32.50	2.00 H	200	60.06	-105.56
5	666.32	-49.55	-13.00	-36.55	1.01 H	212	50.38	-99.93
6	799.21	-48.52	-13.00	-35.52	1.01 H	168	49.23	-97.75

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

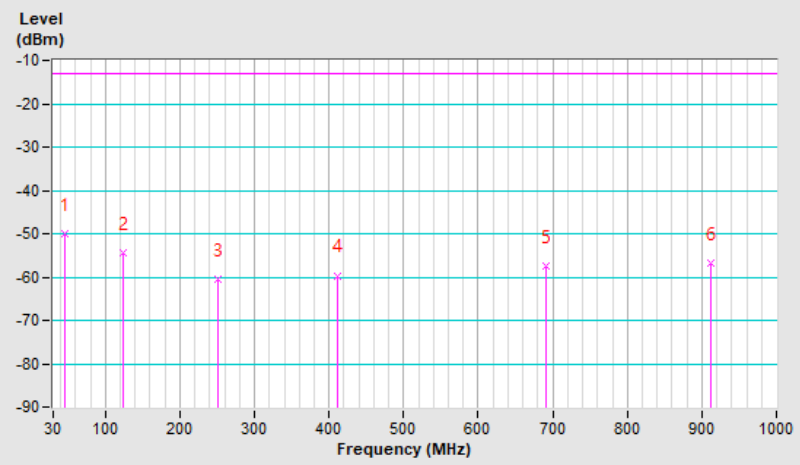


RF Mode	EDGE 1900	Channel	CH 810：1909.8 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 70% RH
Tested By	Greg Lin		

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	45.52	-50.01	-13.00	-37.01	1.00 V	149	58.45	-108.46
2	123.12	-54.57	-13.00	-41.57	1.00 V	231	55.75	-110.32
3	250.19	-60.49	-13.00	-47.49	1.99 V	204	49.34	-109.83
4	411.21	-59.66	-13.00	-46.66	1.24 V	175	45.63	-105.29
5	691.54	-57.34	-13.00	-44.34	1.24 V	218	42.19	-99.53
6	911.73	-56.89	-13.00	-43.89	1.99 V	41	39.55	-96.44

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



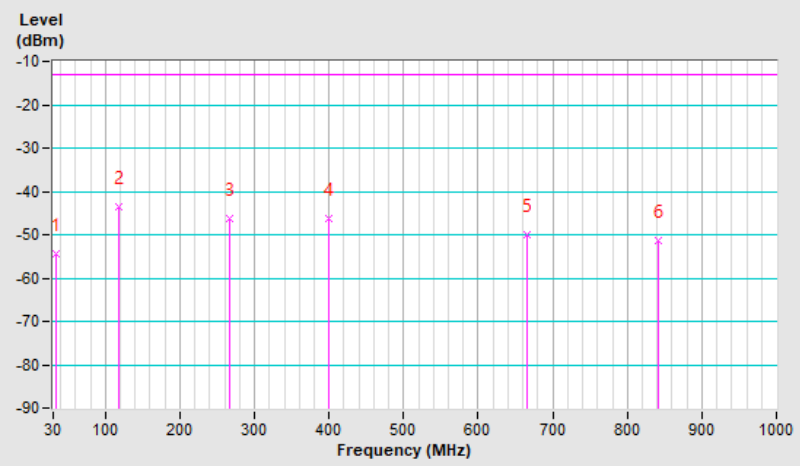
7.6.5 WCDMA Band 2

RF Mode	WCDMA Band II	Channel	CH 9538：1907.60 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, 70% RH
Tested By	Greg Lin		

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	33.88	-54.24	-13.00	-41.24	1.49 H	118	55.17	-109.41
2	118.27	-43.46	-13.00	-30.46	1.49 H	232	67.27	-110.73
3	266.68	-46.25	-13.00	-33.25	1.00 H	5	62.93	-109.18
4	400.54	-46.19	-13.00	-33.19	1.99 H	202	59.37	-105.56
5	666.32	-50.05	-13.00	-37.05	1.00 H	201	49.88	-99.93
6	840.92	-51.33	-13.00	-38.33	1.00 H	2	45.83	-97.16

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9kHz~30MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

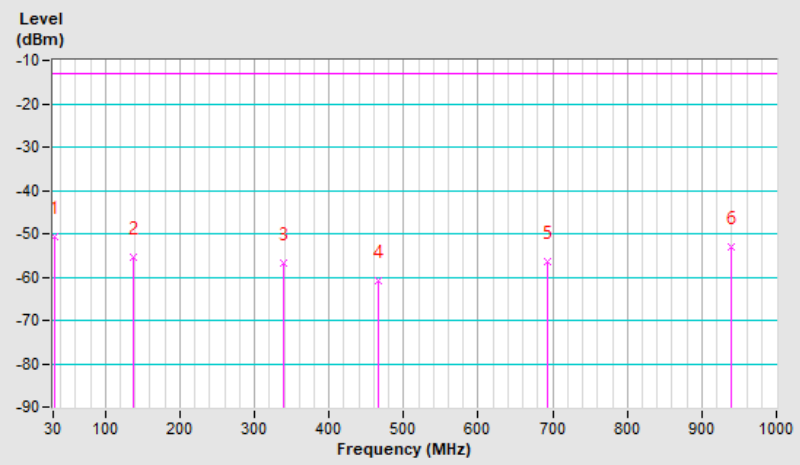


RF Mode	WCDMA Band II	Channel	CH 9538：1907.60 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 70% RH
Tested By	Greg Lin		

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	31.94	-50.60	-13.00	-37.60	1.01 V	19	59.05	-109.65
2	136.70	-55.30	-13.00	-42.30	2.00 V	341	53.77	-109.07
3	338.46	-56.79	-13.00	-43.79	1.51 V	198	50.20	-106.99
4	465.53	-60.79	-13.00	-47.79	1.26 V	340	42.90	-103.69
5	692.51	-56.61	-13.00	-43.61	1.26 V	214	42.87	-99.48
6	939.86	-52.94	-13.00	-39.94	1.01 V	180	43.11	-96.05

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9kHz~30MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



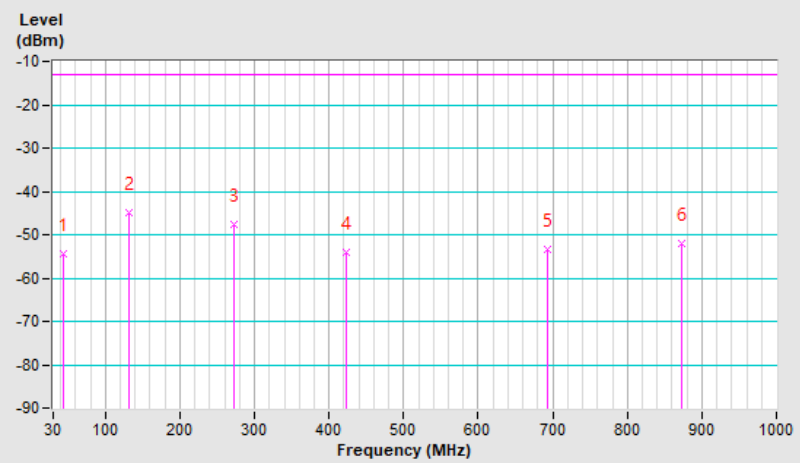
7.6.6 WCDMA Band 4

RF Mode	WCDMA Band IV	Channel	CH 1513：1752.60 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, 70% RH
Tested By	Greg Lin		

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	43.58	-54.39	-13.00	-41.39	1.99 H	211	54.24	-108.63
2	130.88	-44.87	-13.00	-31.87	1.49 H	216	64.76	-109.63
3	272.50	-47.61	-13.00	-34.61	1.24 H	16	61.21	-108.82
4	423.82	-54.12	-13.00	-41.12	1.00 H	244	50.79	-104.91
5	692.51	-53.29	-13.00	-40.29	1.00 H	249	46.19	-99.48
6	872.93	-51.97	-13.00	-38.97	1.99 H	48	44.96	-96.93

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9kHz~30MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

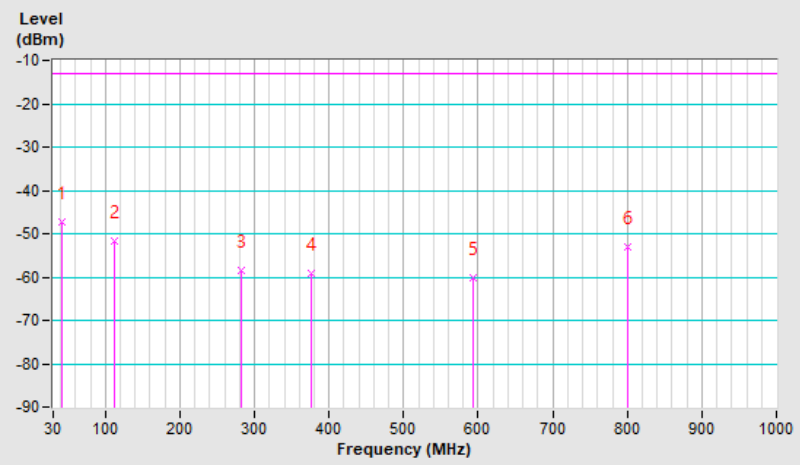


RF Mode	WCDMA Band IV	Channel	CH 1513：1752.60 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 70% RH
Tested By	Greg Lin		

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	42.61	-47.23	-13.00	-34.23	1.26 V	2	61.43	-108.66
2	111.48	-51.53	-13.00	-38.53	1.01 V	206	59.86	-111.39
3	283.17	-58.33	-13.00	-45.33	2.00 V	210	49.96	-108.29
4	375.32	-59.28	-13.00	-46.28	1.26 V	194	46.86	-106.14
5	593.57	-60.22	-13.00	-47.22	1.01 V	349	40.79	-101.01
6	800.18	-53.09	-13.00	-40.09	1.26 V	324	44.62	-97.71

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9kHz~30MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



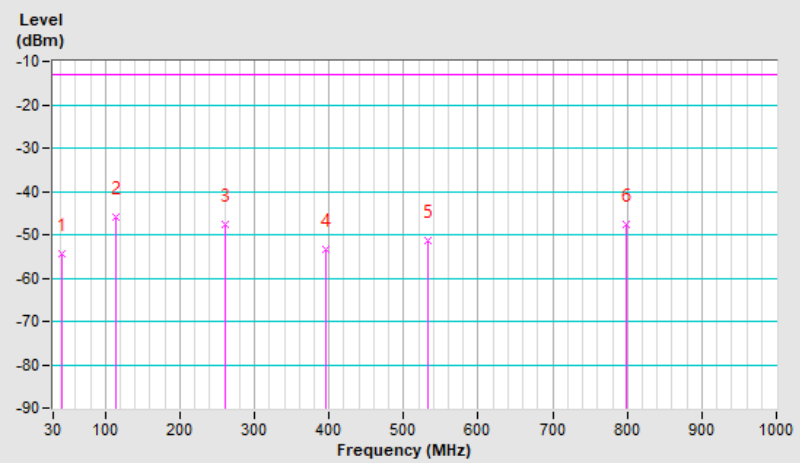
7.6.7 WCDMA Band 5

RF Mode	WCDMA Band V	Channel	CH 4233：846.60 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, 70% RH
Tested By	Greg Lin		

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	41.64	-54.40	-13.00	-41.40	1.99 H	276	56.43	-110.83
2	113.42	-45.81	-13.00	-32.81	1.49 H	236	67.52	-113.33
3	260.86	-47.71	-13.00	-34.71	1.00 H	2	63.90	-111.61
4	395.69	-53.30	-13.00	-40.30	1.24 H	18	54.47	-107.77
5	533.43	-51.22	-13.00	-38.22	1.49 H	198	53.51	-104.73
6	799.21	-47.65	-13.00	-34.65	1.00 H	314	52.25	-99.90

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9kHz~30MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

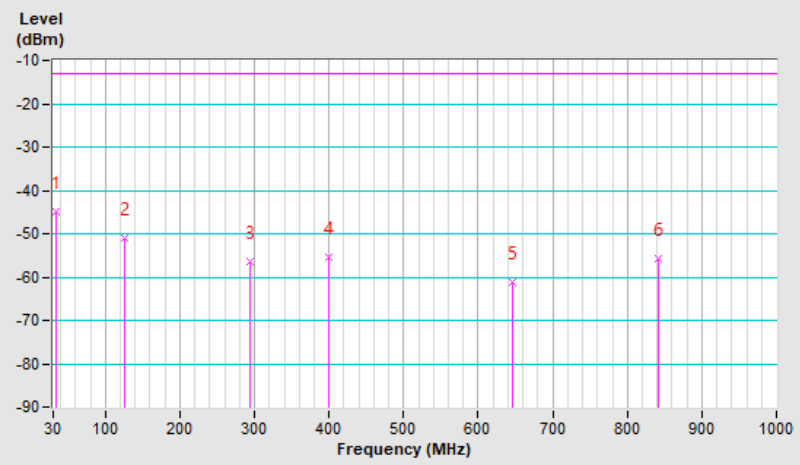


RF Mode	WCDMA Band V	Channel	CH 4233：846.60 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 70% RH
Tested By	Greg Lin		

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	33.88	-45.05	-13.00	-32.05	1.01 V	273	66.51	-111.56
2	125.06	-51.05	-13.00	-38.05	1.01 V	218	61.29	-112.34
3	293.84	-56.58	-13.00	-43.58	2.00 V	186	53.64	-110.22
4	400.54	-55.27	-13.00	-42.27	1.26 V	192	52.44	-107.71
5	645.95	-61.20	-13.00	-48.20	1.01 V	190	41.02	-102.22
6	840.92	-55.79	-13.00	-42.79	1.26 V	147	43.52	-99.31

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9kHz~30MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



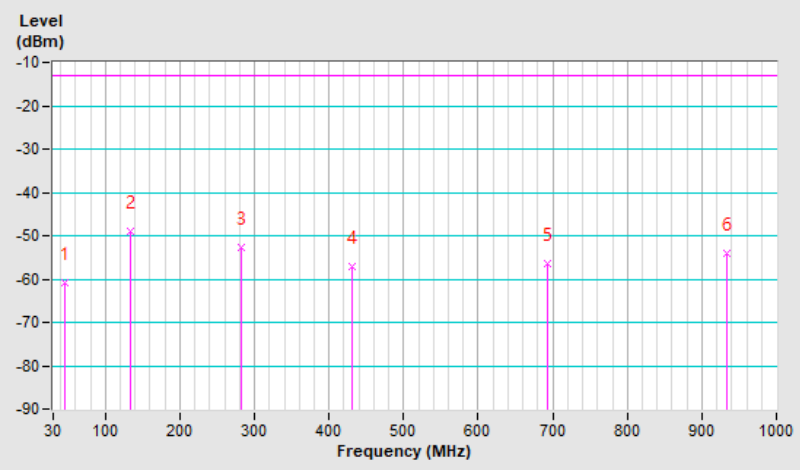
7.6.8 LTE Band 2

RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 19100：1900 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, 70% RH
Tested By	Greg Lin		

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	-60.74	-13.00	-47.74	2.00 H	38	47.72	-108.46
2	133.79	-49.15	-13.00	-36.15	2.00 H	218	60.17	-109.32
3	283.17	-52.78	-13.00	-39.78	1.51 H	17	55.51	-108.29
4	431.58	-57.19	-13.00	-44.19	1.01 H	353	47.38	-104.57
5	692.51	-56.40	-13.00	-43.40	1.01 H	253	43.08	-99.48
6	933.07	-54.19	-13.00	-41.19	2.00 H	201	41.97	-96.16

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

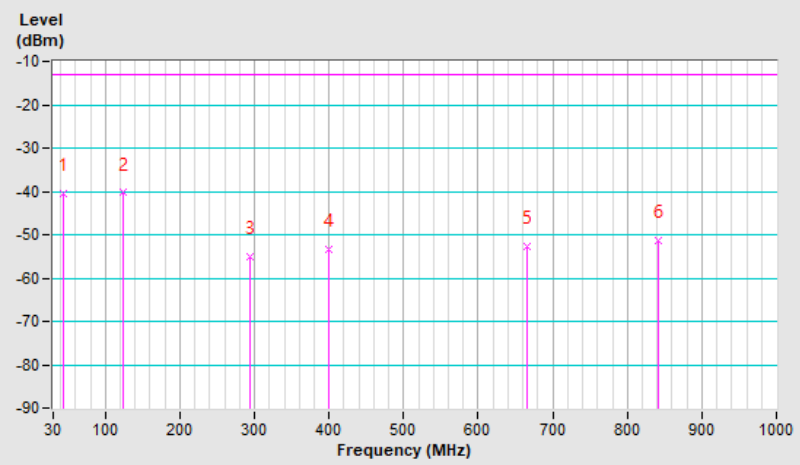


RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 19100：1900 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 70% RH
Tested By	Greg Lin		

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	44.55	-40.41	-13.00	-27.41	1.24 V	114	68.14	-108.55
2	124.09	-40.34	-13.00	-27.34	1.00 V	259	69.95	-110.29
3	294.81	-55.09	-13.00	-42.09	1.49 V	216	52.97	-108.06
4	400.54	-53.26	-13.00	-40.26	1.24 V	190	52.30	-105.56
5	666.32	-52.57	-13.00	-39.57	1.49 V	80	47.36	-99.93
6	840.92	-51.33	-13.00	-38.33	1.49 V	354	45.83	-97.16

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



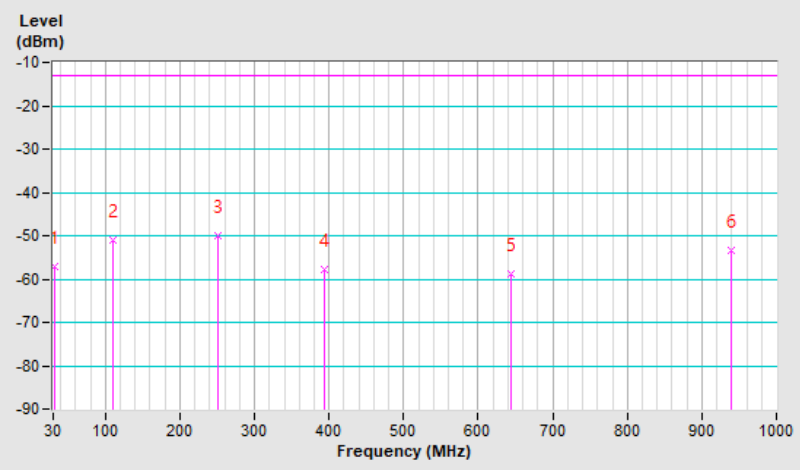
7.6.9 LTE Band 4

RF Mode	LTE Band 4 Channel Bandwidth: 5MHz	Channel	CH 20375：1752.50 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, 70% RH
Tested By	Greg Lin		

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	32.91	-57.03	-13.00	-44.03	2.00 H	122	52.67	-109.70
2	110.51	-50.98	-13.00	-37.98	1.51 H	245	60.51	-111.49
3	250.19	-49.98	-13.00	-36.98	1.01 H	343	59.85	-109.83
4	394.72	-57.91	-13.00	-44.91	1.01 H	18	47.73	-105.64
5	644.98	-58.83	-13.00	-45.83	1.26 H	196	41.22	-100.05
6	939.86	-53.30	-13.00	-40.30	1.01 H	245	42.75	-96.05

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

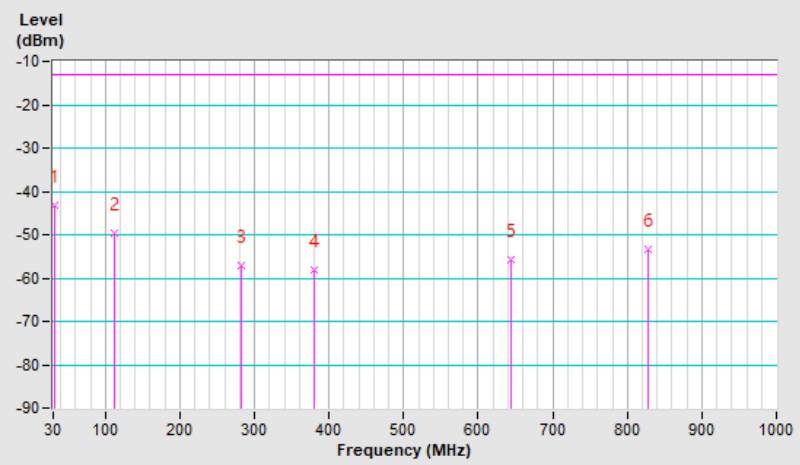


RF Mode	LTE Band 4 Channel Bandwidth: 5MHz	Channel	CH 20375：1752.50 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 70% RH
Tested By	Greg Lin		

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	32.91	-43.18	-13.00	-30.18	1.24 V	266	66.52	-109.70
2	111.48	-49.59	-13.00	-36.59	1.00 V	201	61.80	-111.39
3	283.17	-57.27	-13.00	-44.27	1.99 V	216	51.02	-108.29
4	380.17	-57.99	-13.00	-44.99	1.24 V	174	48.04	-106.03
5	644.98	-55.89	-13.00	-42.89	1.99 V	311	44.16	-100.05
6	828.31	-53.42	-13.00	-40.42	1.49 V	270	43.96	-97.38

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



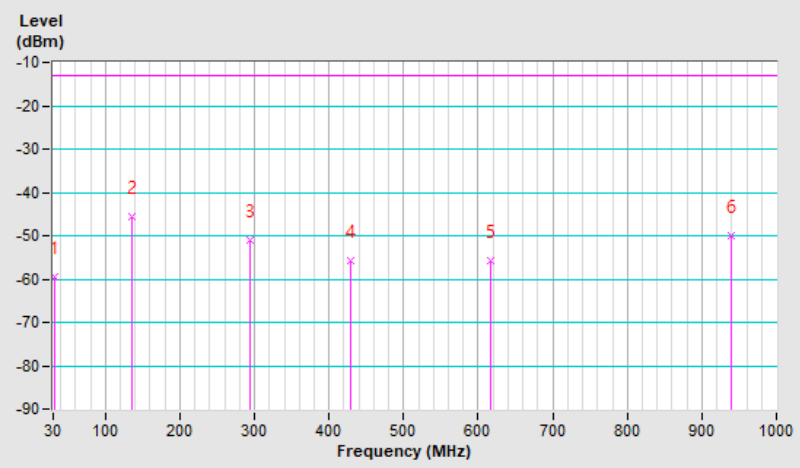
7.6.10 LTE Band 5

RF Mode	LTE Band 5 Channel Bandwidth: 1.4MHz	Channel	CH 20643：848.3 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, 70% RH
Tested By	Greg Lin		

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	31.94	-59.62	-13.00	-46.62	1.99 H	137	52.18	-111.80
2	135.73	-45.43	-13.00	-32.43	1.24 H	186	65.88	-111.31
3	293.84	-51.00	-13.00	-38.00	1.00 H	28	59.22	-110.22
4	428.67	-55.63	-13.00	-42.63	1.99 H	244	51.22	-106.85
5	616.85	-55.66	-13.00	-42.66	1.49 H	181	47.06	-102.72
6	938.89	-50.01	-13.00	-37.01	1.49 H	239	48.21	-98.22

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

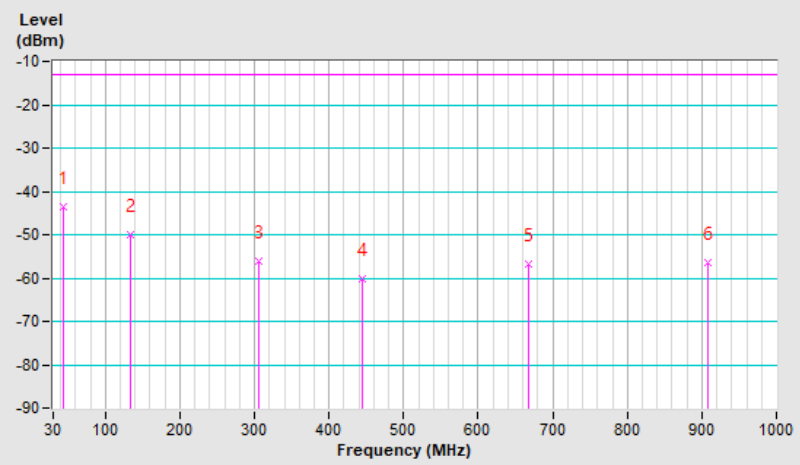


RF Mode	LTE Band 5 Channel Bandwidth: 1.4MHz	Channel	CH 20643：848.3 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 70% RH
Tested By	Greg Lin		

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	44.55	-43.66	-13.00	-30.66	1.01 V	108	67.04	-110.70
2	133.79	-50.05	-13.00	-37.05	1.01 V	304	61.42	-111.47
3	305.48	-56.00	-13.00	-43.00	2.00 V	186	53.95	-109.95
4	445.16	-60.31	-13.00	-47.31	1.51 V	327	45.92	-106.23
5	667.29	-56.68	-13.00	-43.68	1.51 V	68	45.39	-102.07
6	907.85	-56.29	-13.00	-43.29	1.01 V	49	42.37	-98.66

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



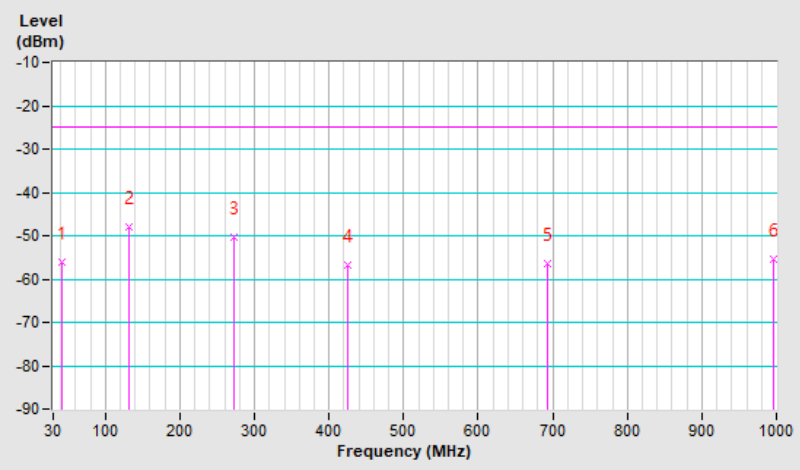
7.6.11 LTE Band 7

RF Mode	LTE Band 7 Channel Bandwidth: 20MHz	Channel	CH 21350：2560 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, 70% RH
Tested By	Greg Lin		

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	41.64	-56.24	-25.00	-31.24	2.00 H	87	52.44	-108.68
2	**130.88**	**-47.80**	**-25.00**	**-22.80**	**2.00 H**	**221**	**61.83**	**-109.63**
3	272.50	-50.24	-25.00	-25.24	1.01 H	18	58.58	-108.82
4	425.76	-56.91	-25.00	-31.91	2.00 H	246	47.92	-104.83
5	692.51	-56.40	-25.00	-31.40	1.01 H	253	43.08	-99.48
6	995.15	-55.50	-25.00	-30.50	1.01 H	146	39.68	-95.18

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

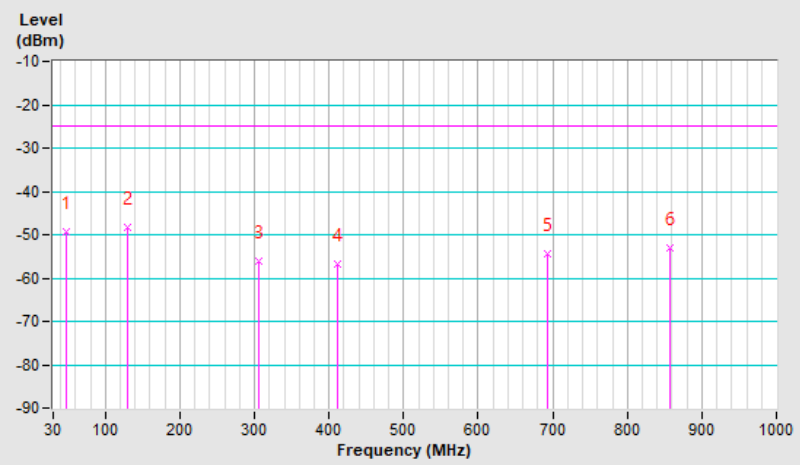


RF Mode	LTE Band 7 Channel Bandwidth: 20MHz	Channel	CH 21350：2560 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 70% RH
Tested By	Greg Lin		

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	47.46	-49.38	-25.00	-24.38	1.24 V	152	59.10	-108.48
2	129.91	-48.14	-25.00	-23.14	1.00 V	182	61.55	-109.69
3	305.48	-56.23	-25.00	-31.23	1.24 V	201	51.57	-107.80
4	411.21	-56.92	-25.00	-31.92	1.24 V	169	48.37	-105.29
5	692.51	-54.29	-25.00	-29.29	1.24 V	201	45.19	-99.48
6	856.44	-52.90	-25.00	-27.90	1.99 V	330	44.18	-97.08

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



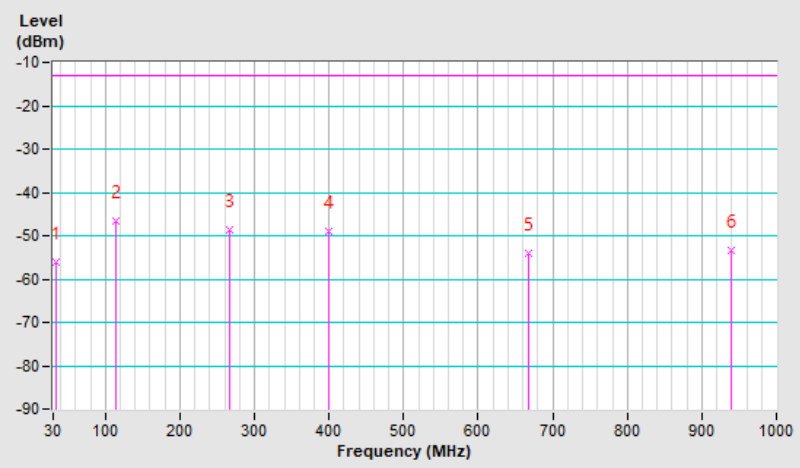
7.6.12 LTE Band 12

RF Mode	LTE Band 12 Channel Bandwidth: 1.4MHz	Channel	CH 23173：715.3 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, 70% RH
Tested By	Greg Lin		

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	33.88	-56.21	-13.00	-43.21	2.00 H	106	55.35	-111.56
2	113.42	-46.58	-13.00	-33.58	1.51 H	229	66.75	-113.33
3	266.68	-48.77	-13.00	-35.77	1.01 H	356	62.56	-111.33
4	400.54	-49.03	-13.00	-36.03	2.00 H	205	58.68	-107.71
5	667.29	-54.13	-13.00	-41.13	1.01 H	206	47.94	-102.07
6	939.86	-53.30	-13.00	-40.30	1.01 H	245	44.90	-98.20

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

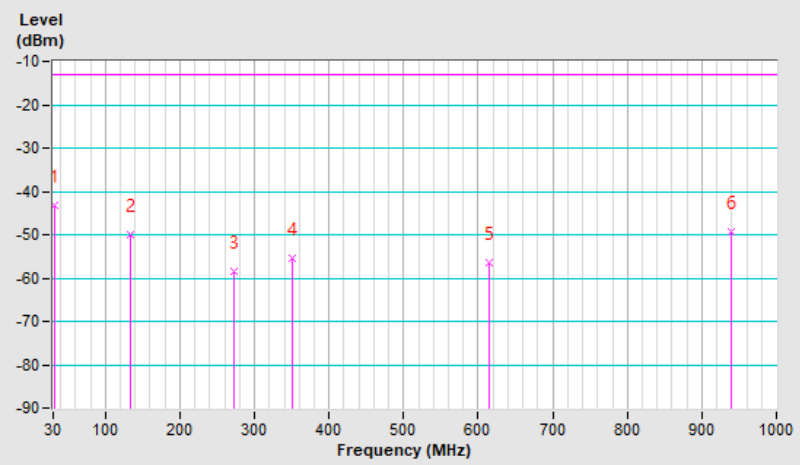


RF Mode	LTE Band 12 Channel Bandwidth: 1.4MHz	Channel	CH 23173：715.3 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 70% RH
Tested By	Greg Lin		

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	32.91	-43.18	-13.00	-30.18	1.24 V	266	68.67	-111.85
2	133.79	-50.07	-13.00	-37.07	1.24 V	280	61.40	-111.47
3	272.50	-58.64	-13.00	-45.64	1.49 V	234	52.33	-110.97
4	351.07	-55.39	-13.00	-42.39	1.49 V	188	53.72	-109.11
5	613.94	-56.45	-13.00	-43.45	1.24 V	40	46.28	-102.73
6	939.86	-49.25	-13.00	-36.25	1.00 V	191	48.95	-98.20

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



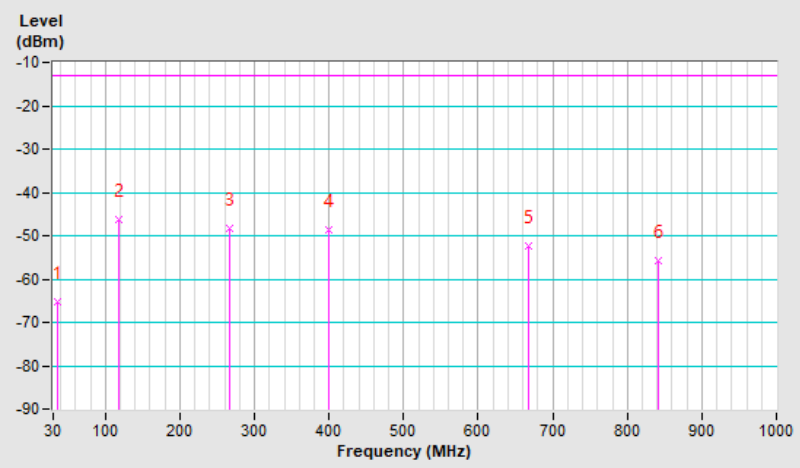
7.6.13 LTE Band 13

RF Mode	LTE Band 13 Channel Bandwidth: 5MHz	Channel	CH 23255：784.5 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, 70% RH
Tested By	Greg Lin		

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	36.79	-65.11	-13.00	-52.11	1.99 H	67	46.21	-111.32
2	118.27	-46.26	-13.00	-33.26	1.99 H	231	66.62	-112.88
3	266.68	-48.33	-13.00	-35.33	1.24 H	16	63.00	-111.33
4	400.54	-48.65	-13.00	-35.65	1.99 H	201	59.06	-107.71
5	667.29	-52.28	-13.00	-39.28	1.00 H	209	49.79	-102.07
6	840.92	-55.61	-13.00	-42.61	1.00 H	2	43.70	-99.31

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

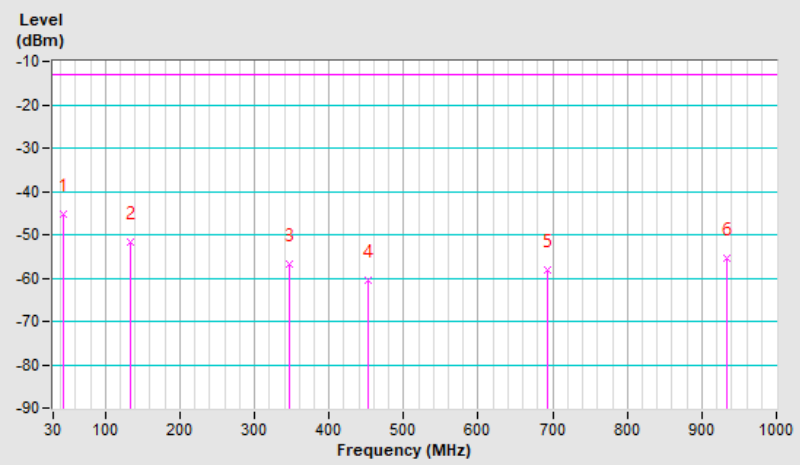


RF Mode	LTE Band 13 Channel Bandwidth: 5MHz	Channel	CH 23255：784.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 70% RH
Tested By	Greg Lin		

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	43.58	-45.14	-13.00	-32.14	1.01 V	18	65.64	-110.78
2	133.79	-51.64	-13.00	-38.64	1.01 V	278	59.83	-111.47
3	347.19	-56.77	-13.00	-43.77	1.50 V	182	52.39	-109.16
4	452.92	-60.58	-13.00	-47.58	1.50 V	180	45.45	-106.03
5	692.51	-58.08	-13.00	-45.08	1.50 V	199	43.55	-101.63
6	933.07	-55.48	-13.00	-42.48	1.01 V	193	42.83	-98.31

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



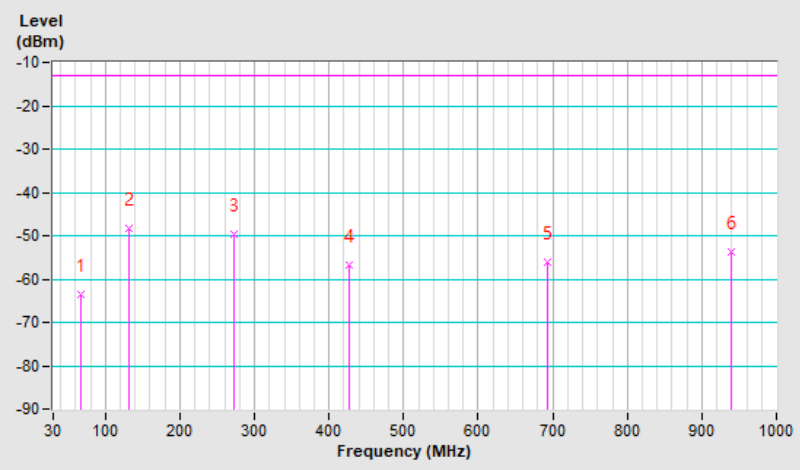
7.6.14 LTE Band 17

RF Mode	LTE Band 17 Channel Bandwidth: 5MHz	Channel	CH 23755：706.5 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, 70% RH
Tested By	Greg Lin		

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	66.86	-63.55	-13.00	-50.55	1.99 H	190	48.90	-112.45
2	130.88	-48.35	-13.00	-35.35	1.24 H	214	63.43	-111.78
3	272.50	-49.57	-13.00	-36.57	1.24 H	11	61.40	-110.97
4	427.70	-56.63	-13.00	-43.63	1.00 H	358	50.27	-106.90
5	692.51	-56.10	-13.00	-43.10	1.00 H	258	45.53	-101.63
6	939.86	-53.58	-13.00	-40.58	1.00 H	124	44.62	-98.20

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

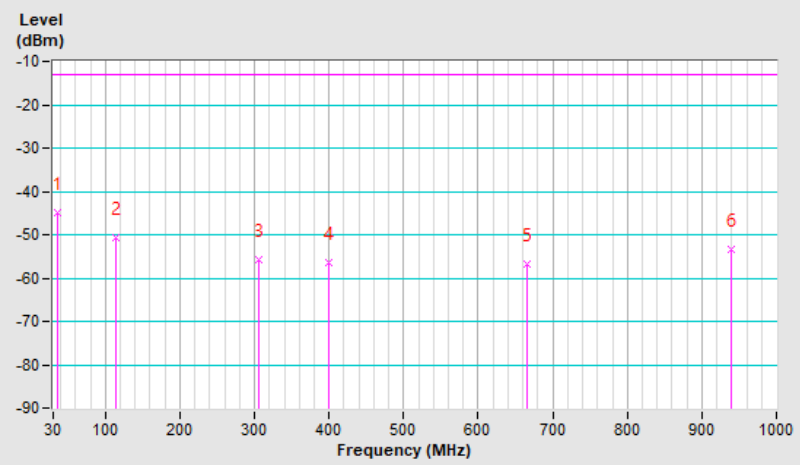


RF Mode	LTE Band 17 Channel Bandwidth: 5MHz	Channel	CH 23755：706.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 70% RH
Tested By	Greg Lin		

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	35.82	-44.89	-13.00	-31.89	1.01 V	231	66.59	-111.48
2	113.42	-50.80	-13.00	-37.80	1.01 V	208	62.53	-113.33
3	305.48	-55.82	-13.00	-42.82	1.50 V	199	54.13	-109.95
4	400.54	-56.53	-13.00	-43.53	1.01 V	200	51.18	-107.71
5	666.32	-56.86	-13.00	-43.86	1.50 V	69	45.22	-102.08
6	939.86	-53.42	-13.00	-40.42	1.01 V	186	44.78	-98.20

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.7 Radiated Spurious Emissions above 1GHz

7.7.1 GSM 850

RF Mode	GSM 850	Channel	CH 128：824.2 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1648.40	-49.29	-13.00	-36.29	2.61 H	286	54.20	-103.49
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	1648.40	-45.79	-13.00	-32.79	1.49 V	31	57.70	-103.49

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	GSM 850	Channel	CH 189：836.4 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1672.80	-48.95	-13.00	-35.95	2.65 H	290	54.50	-103.45
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	1672.80	-45.45	-13.00	-32.45	1.52 V	35	58.00	-103.45

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	GSM 850	Channel	CH 251：848.8 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1697.60	-48.98	-13.00	-35.98	2.65 H	291	54.41	-103.39
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	1697.60	-45.08	-13.00	-32.08	1.58 V	33	58.31	-103.39

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

7.7.2 EDGE 850

RF Mode	EDGE 850	Channel	CH 128：824.2 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1648.40	-49.31	-13.00	-36.31	2.62 H	285	54.18	-103.49
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	1648.40	-45.81	-13.00	-32.81	1.51 V	32	57.68	-103.49

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	EDGE 850	Channel	CH 189：836.4 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1672.80	-48.86	-13.00	-35.86	2.67 H	292	54.59	-103.45
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	1672.80	-45.70	-13.00	-32.70	1.55 V	38	57.75	-103.45

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	EDGE 850	Channel	CH 251：848.8 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1697.60	-49.07	-13.00	-36.07	2.67 H	298	54.32	-103.39
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	1697.60	-45.17	-13.00	-32.17	1.57 V	38	58.22	-103.39

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

7.7.3 PCS 1900

RF Mode	PCS 1900	Channel	CH 512：1850.2 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-48.87	-13.00	-35.87	2.02 H	146	46.22	-95.09
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	-45.79	-13.00	-32.79	1.42 V	30	49.30	-95.09

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	PCS 1900	Channel	CH 661：1880 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-48.54	-13.00	-35.54	2.12 H	145	46.28	-94.82
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	-45.40	-13.00	-32.40	1.45 V	32	49.42	-94.82

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	PCS 1900	Channel	CH 810：1909.8 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-48.13	-13.00	-35.13	2.05 H	147	46.45	-94.58
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	-45.00	-13.00	-32.00	1.48 V	32	49.58	-94.58

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.7.4 EDGE 1900

RF Mode	EDGE 1900	Channel	CH 512：1850.2 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-48.84	-13.00	-35.84	2.05 H	148	46.25	-95.09
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	-45.74	-13.00	-32.74	1.45 V	32	49.35	-95.09

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	EDGE 1900	Channel	CH 661：1880 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-48.47	-13.00	-35.47	2.15 H	147	46.35	-94.82
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	-45.30	-13.00	-32.30	1.42 V	39	49.52	-94.82

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	EDGE 1900	Channel	CH 810：1909.8 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-48.01	-13.00	-35.01	2.10 H	145	46.57	-94.58
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	-44.96	-13.00	-31.96	1.52 V	35	49.62	-94.58

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.7.5 WCDMA Band 2

RF Mode	WCDMA Band II	Channel	CH 9262：1852.4 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	3704.80	-50.84	-13.00	-37.84	2.05 H	148	44.23	-95.07
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	3704.80	-50.37	-13.00	-37.37	1.29 V	18	44.70	-95.07

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	WCDMA Band II	Channel	CH 9400：1880 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-50.53	-13.00	-37.53	2.07 H	145	44.29	-94.82
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	-50.00	-13.00	-37.00	1.31 V	20	44.82	-94.82

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	WCDMA Band II	Channel	CH 9538：1907.6 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	3815.20	-50.24	-13.00	-37.24	2.11 H	142	44.35	-94.59
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	3815.20	-49.70	-13.00	-36.70	1.31 V	15	44.89	-94.59

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.7.6 WCDMA Band 4

RF Mode	WCDMA Band IV	Channel	CH 1312：1712.4 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	3424.80	-50.78	-13.00	-37.78	2.13 H	118	45.26	-96.04
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	3424.80	-50.26	-13.00	-37.26	1.23 V	13	45.78	-96.04

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	WCDMA Band IV	Channel	CH 1413：1732.6 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	3465.20	-50.64	-13.00	-37.64	2.18 H	120	45.31	-95.95
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	3465.20	-50.06	-13.00	-37.06	1.22 V	15	45.89	-95.95

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	WCDMA Band IV	Channel	CH 1513：1752.6 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	3505.20	-50.43	-13.00	-37.43	2.19 H	123	45.36	-95.79
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	3505.20	-49.84	-13.00	-36.84	1.32 V	15	45.95	-95.79

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.7.7 WCDMA Band 5

RF Mode	WCDMA Band V	Channel	CH 4132：826.4 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1652.80	-58.82	-13.00	-45.82	2.25 H	293	44.67	-103.49
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	1652.80	-57.99	-13.00	-44.99	1.51 V	22	45.50	-103.49

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	WCDMA Band V	Channel	CH 4182：836.4 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1672.80	-58.76	-13.00	-45.76	2.22 H	295	44.69	-103.45
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	1672.80	-57.73	-13.00	-44.73	1.52 V	25	45.72	-103.45

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	WCDMA Band V	Channel	CH 4233：846.6 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1693.20	-58.67	-13.00	-45.67	2.25 H	291	44.72	-103.39
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	1693.20	-57.54	-13.00	-44.54	1.58 V	29	45.85	-103.39

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

7.7.8 LTE Band 2

RF Mode	LTE Band 2 Channel Bandwidth: 1.4MHz	Channel	CH 18607：1850.7 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-50.31	-13.00	-37.31	3.71 H	290	44.77	-95.08
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	3701.40	-49.53	-13.00	-36.53	2.59 V	347	45.55	-95.08

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 Channel Bandwidth: 1.4MHz	Channel	CH 18900：1880 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-50.24	-13.00	-37.24	3.66 H	283	44.58	-94.82
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	-49.20	-13.00	-36.20	2.62 V	348	45.62	-94.82

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 Channel Bandwidth: 1.4MHz	Channel	CH 19193：1909.3 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-49.79	-13.00	-36.79	3.69 H	283	44.78	-94.57
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	-48.95	-13.00	-35.95	2.56 V	346	45.62	-94.57

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 Channel Bandwidth: 5MHz	Channel	CH 18625：1852.5 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-50.14	-13.00	-37.14	3.65 H	290	44.92	-95.06
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	-49.51	-13.00	-36.51	2.63 V	345	45.55	-95.06

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 Channel Bandwidth: 5MHz	Channel	CH 18900：1880 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-49.79	-13.00	-36.79	3.67 H	284	45.03	-94.82
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	-49.32	-13.00	-36.32	2.58 V	347	45.50	-94.82

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 Channel Bandwidth: 5MHz	Channel	CH 19175：1907.5 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-49.46	-13.00	-36.46	3.66 H	285	45.13	-94.59
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	-48.40	-13.00	-35.40	2.64 V	349	46.19	-94.59

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 18700：1860 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-49.50	-13.00	-36.50	3.65 H	288	45.50	-95.00
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	3720.00	-49.16	-13.00	-36.16	2.58 V	342	45.84	-95.00

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 18900：1880 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-49.42	-13.00	-36.42	3.69 H	288	45.40	-94.82
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	-49.29	-13.00	-36.29	2.60 V	345	45.53	-94.82

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 19100：1900 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-49.53	-13.00	-36.53	3.67 H	285	45.11	-94.64
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	-48.34	-13.00	-35.34	2.57 V	347	46.30	-94.64

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.7.9 LTE Band 4

RF Mode	LTE Band 4 Channel Bandwidth: 1.4MHz	Channel	CH 19957：1710.7 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	3421.40	-51.49	-13.00	-38.49	1.49 H	124	44.55	-96.04
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	3421.40	-48.62	-13.00	-35.62	3.54 V	350	47.42	-96.04

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 4 Channel Bandwidth: 1.4MHz	Channel	CH 20175：1732.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	3465.00	-51.10	-13.00	-38.10	1.48 H	120	44.86	-95.96
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	3465.00	-48.21	-13.00	-35.21	3.53 V	348	47.75	-95.96

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 4 Channel Bandwidth: 1.4MHz	Channel	CH 20393：1754.3 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	3508.60	-50.43	-13.00	-37.43	1.50 H	122	45.34	-95.77
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	3508.60	-48.46	-13.00	-35.46	3.48 V	347	47.31	-95.77

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 4 Channel Bandwidth: 5MHz	Channel	CH 19975：1712.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	3425.00	-51.53	-13.00	-38.53	1.41 H	120	44.50	-96.03
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	3425.00	-48.34	-13.00	-35.34	3.54 V	352	47.69	-96.03

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 4 Channel Bandwidth: 5MHz	Channel	CH 20175：1732.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	3465.00	-50.63	-13.00	-37.63	1.47 H	120	45.33	-95.96
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	3465.00	-49.05	-13.00	-36.05	3.50 V	352	46.91	-95.96

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 4 Channel Bandwidth: 5MHz	Channel	CH 20375：1752.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	3505.00	-50.46	-13.00	-37.46	1.42 H	117	45.33	-95.79
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	3505.00	-48.13	-13.00	-35.13	3.48 V	352	47.66	-95.79

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 4 Channel Bandwidth: 20MHz	Channel	CH 20050：1720 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-51.45	-13.00	-38.45	1.45 H	122	44.58	-96.03
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	3440.00	-48.85	-13.00	-35.85	3.48 V	350	47.18	-96.03

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 4 Channel Bandwidth: 20MHz	Channel	CH 20175：1732.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	3465.00	-50.56	-13.00	-37.56	1.50 H	121	45.40	-95.96
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	3465.00	-48.77	-13.00	-35.77	3.50 V	350	47.19	-95.96

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 4 Channel Bandwidth: 20MHz	Channel	CH 20300：1745 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-51.23	-13.00	-38.23	1.42 H	123	44.62	-95.85
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	3490.00	-48.15	-13.00	-35.15	3.56 V	346	47.70	-95.85

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.7.10 LTE Band 5

RF Mode	LTE Band 5 Channel Bandwidth: 1.4MHz	Channel	CH 20407：824.7 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1649.40	-58.83	-13.00	-45.83	2.53 H	249	44.66	-103.49
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	1649.40	-57.08	-13.00	-44.08	1.34 V	198	46.41	-103.49

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) + 20log(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 Channel Bandwidth: 1.4MHz	Channel	CH 20525：836.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1673.00	-58.70	-13.00	-45.70	2.57 H	247	44.75	-103.45
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	1673.00	-56.82	-13.00	-43.82	1.34 V	200	46.63	-103.45

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) + 20log(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 Channel Bandwidth: 1.4MHz	Channel	CH 20643：848.3 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1696.60	-59.12	-13.00	-46.12	2.55 H	248	44.27	-103.39
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	1696.60	-56.56	-13.00	-43.56	1.41 V	201	46.83	-103.39

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) + 20log(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 Channel Bandwidth: 5MHz	Channel	CH 20425：826.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1653.00	-59.51	-13.00	-46.51	2.49 H	242	43.98	-103.49
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	1653.00	-57.35	-13.00	-44.35	1.42 V	204	46.14	-103.49

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) + 20log(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 Channel Bandwidth: 5MHz	Channel	CH 20525：836.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1673.00	-59.14	-13.00	-46.14	2.50 H	247	44.31	-103.45
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	1673.00	-57.41	-13.00	-44.41	1.35 V	203	46.04	-103.45

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) + 20log(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 Channel Bandwidth: 5MHz	Channel	CH 20625：846.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1693.00	-59.18	-13.00	-46.18	2.49 H	249	44.21	-103.39
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	1693.00	-56.60	-13.00	-43.60	1.35 V	201	46.79	-103.39

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) + 20log(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 Channel Bandwidth: 10MHz	Channel	CH 20450：829 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-59.38	-13.00	-46.38	2.54 H	242	44.10	-103.48
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	-57.03	-13.00	-44.03	1.44 V	197	46.45	-103.48

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) + 20log(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 Channel Bandwidth: 10MHz	Channel	CH 20525：836.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1673.00	-59.49	-13.00	-46.49	2.57 H	243	43.96	-103.45
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	1673.00	-57.46	-13.00	-44.46	1.40 V	197	45.99	-103.45

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) + 20log(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 Channel Bandwidth: 10MHz	Channel	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	23°C, 66% RH
Tested By	Titan Hsu		

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	1688.00	-58.55	-13.00	-45.55	2.57 H	246	44.86	-103.41
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	1688.00	-56.96	-13.00	-43.96	1.37 V	197	46.45	-103.41

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

7.7.11 LTE Band 7

RF Mode	LTE Band 7 Channel Bandwidth: 5MHz	Channel	CH 20775：2502.5 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	5005.00	-45.33	-25.00	-20.33	1.50 H	130	46.73	-92.06
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	5005.00	-37.59	-25.00	-12.59	2.83 V	242	54.47	-92.06

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) + 20log(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 Channel Bandwidth: 5MHz	Channel	CH 21100：2535 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	5070.00	-45.68	-25.00	-20.68	1.48 H	126	46.29	-91.97
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	5070.00	-37.75	-25.00	-12.75	2.91 V	239	54.22	-91.97

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) + 20log(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 Channel Bandwidth: 5MHz	Channel	CH 21425：2567.5 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	5135.00	-45.64	-25.00	-20.64	1.46 H	131	46.28	-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	5135.00	-37.22	-25.00	-12.22	2.89 V	242	54.70	-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) + 20log(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 Channel Bandwidth: 20MHz	Channel	CH 20850：2510 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	-46.10	-25.00	-21.10	1.48 H	126	45.93	-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	5020.00	-37.29	-25.00	-12.29	2.88 V	243	54.74	-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) + 20log(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 Channel Bandwidth: 20MHz	Channel	CH 21100：2535 MHz
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	5070.00	-45.79	-25.00	-20.79	1.49 H	128	46.18	-91.97
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	5070.00	-37.75	-25.00	-12.75	2.89 V	238	54.22	-91.97

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) + 20log(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 Channel Bandwidth: 20MHz	Channel	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	23°C, 66% RH
Tested By	Titan Hsu		

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	5120.00	-45.93	-25.00	-20.93	1.49 H	126	45.98	-91.91
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	5120.00	-37.19	-25.00	-12.19	2.93 V	239	54.72	-91.91

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.7.12 LTE Band 12

RF Mode	LTE Band 12 Channel Bandwidth: 1.4MHz	Channel	CH 23017：699.7 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1399.40	-54.33	-13.00	-41.33	1.50 H	248	49.51	-103.84
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	1399.40	-50.28	-13.00	-37.28	1.54 V	212	53.56	-103.84

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) + 20log(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 Channel Bandwidth: 1.4MHz	Channel	CH 23095：707.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1415.00	-54.98	-13.00	-41.98	1.52 H	246	48.80	-103.78
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	1415.00	-50.85	-13.00	-37.85	1.53 V	215	52.93	-103.78

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) + 20log(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 Channel Bandwidth: 1.4MHz	Channel	CH 23173：715.3 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1430.60	-54.31	-13.00	-41.31	1.51 H	251	49.40	-103.71
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	1430.60	-50.06	-13.00	-37.06	1.49 V	217	53.65	-103.71

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) + 20log(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 Channel Bandwidth: 5MHz	Channel	CH 23035：701.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1403.00	-55.00	-13.00	-42.00	1.53 H	253	48.82	-103.82
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	1403.00	-50.20	-13.00	-37.20	1.47 V	211	53.62	-103.82

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) + 20log(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 Channel Bandwidth: 5MHz	Channel	CH 23095：707.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1415.00	-54.72	-13.00	-41.72	1.51 H	252	49.06	-103.78
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	1415.00	-50.15	-13.00	-37.15	1.47 V	214	53.63	-103.78

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) + 20log(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 Channel Bandwidth: 5MHz	Channel	CH 23155：713.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1427.00	-54.47	-13.00	-41.47	1.44 H	250	49.25	-103.72
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	1427.00	-50.68	-13.00	-37.68	1.50 V	214	53.04	-103.72

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) + 20log(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 Channel Bandwidth: 10MHz	Channel	CH 23060：704 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1408.00	-55.11	-13.00	-42.11	1.47 H	248	48.70	-103.81
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	1408.00	-50.84	-13.00	-37.84	1.44 V	218	52.97	-103.81

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) + 20log(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 Channel Bandwidth: 10MHz	Channel	CH 23095：707.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1415.00	-54.93	-13.00	-41.93	1.47 H	246	48.85	-103.78
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	1415.00	-50.58	-13.00	-37.58	1.49 V	213	53.20	-103.78

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) + 20log(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 Channel Bandwidth: 10MHz	Channel	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	23°C, 66% RH
Tested By	Titan Hsu		

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	1422.00	-55.01	-13.00	-42.01	1.47 H	250	48.74	-103.75
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	1422.00	-50.25	-13.00	-37.25	1.45 V	216	53.50	-103.75

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

7.7.13 LTE Band 13

RF Mode	LTE Band 13 Channel Bandwidth: 5MHz	Channel	CH 23205：779.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1559.00	-53.10	-40.00	-13.10	1.42 H	240	48.39	-101.49
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	1559.00	-52.02	-40.00	-12.02	2.00 V	21	49.47	-101.49

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 13 Channel Bandwidth: 5MHz	Channel	CH 23230：782 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1564.00	-53.05	-40.00	-13.05	1.46 H	243	48.44	-101.49
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	1564.00	-52.27	-40.00	-12.27	2.04 V	21	49.22	-101.49

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 13 Channel Bandwidth: 5MHz	Channel	CH 23255：784.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1569.00	-53.14	-40.00	-13.14	1.43 H	241	48.34	-101.48
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	**1569.00**	**-51.94**	**-40.00**	**-11.94**	**2.00 V**	**22**	**49.54**	**-101.48**

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 13 Channel Bandwidth: 10MHz	Channel	CH 23230：782 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1564.00	-53.44	-40.00	-13.44	1.43 H	241	48.05	-101.49
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	1564.00	-52.47	-40.00	-12.47	2.10 V	22	49.02	-101.49

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.7.14 LTE Band 17

RF Mode	LTE Band 17 Channel Bandwidth: 5MHz	Channel	CH 23755：706.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1413.00	-54.20	-13.00	-41.20	1.56 H	261	49.59	-103.79
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	1413.00	-50.92	-13.00	-37.92	1.61 V	64	52.87	-103.79

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) + 20log(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 17 Channel Bandwidth: 5MHz	Channel	CH 23790：710 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1420.00	-54.11	-13.00	-41.11	1.58 H	265	49.64	-103.75
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	1420.00	-51.18	-13.00	-38.18	1.63 V	59	52.57	-103.75

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) + 20log(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 17 Channel Bandwidth: 5MHz	Channel	CH 23825：713.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1427.00	-54.32	-13.00	-41.32	1.57 H	264	49.40	-103.72
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	1427.00	-50.92	-13.00	-37.92	1.68 V	64	52.80	-103.72

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) + 20log(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 17 Channel Bandwidth: 10MHz	Channel	CH 23780：709 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1418.00	-54.43	-13.00	-41.43	1.51 H	268	49.34	-103.77
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	1418.00	-51.08	-13.00	-38.08	1.66 V	62	52.69	-103.77

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) + 20log(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 17 Channel Bandwidth: 10MHz	Channel	CH 23790：710 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1420.00	-54.84	-13.00	-41.84	1.51 H	268	48.91	-103.75
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	1420.00	-51.28	-13.00	-38.28	1.66 V	63	52.47	-103.75

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) + 20log(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 17 Channel Bandwidth: 10MHz	Channel	CH 23800：711 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

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	1422.00	-54.84	-13.00	-41.84	1.49 H	262	48.91	-103.75
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	1422.00	-51.05	-13.00	-38.05	1.60 V	58	52.70	-103.75

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) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

7.8 Frequency Stability

Environmental Conditions:	22°C, 68% RH	Tested By:	Noah Chang

7.8.1 GSM850

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 128 (824.2 MHz)		CH 251 (848.8 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	824.1999960	-0.0049	848.8000010	0.0012
3.80	824.2000010	0.0012	848.7999970	-0.0035
4.37	824.2000010	0.0012	848.7999990	-0.0012

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 128 (824.2 MHz)		CH 251 (848.8 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	824.1999960	-0.0049	848.7999970	-0.0035
-30	824.2000040	0.0049	848.7999960	-0.0047
-20	824.1999960	-0.0049	848.7999980	-0.0024
-10	824.1999980	-0.0024	848.7999960	-0.0047
0	824.2000030	0.0036	848.8000030	0.0035
10	824.2000040	0.0049	848.7999960	-0.0047
20	824.1999960	-0.0049	848.7999970	-0.0035
30	824.2000020	0.0024	848.7999970	-0.0035
40	824.1999970	-0.0036	848.7999990	-0.0012
50	824.2000030	0.0036	848.7999990	-0.0012
60	824.1999960	-0.0049	848.7999980	-0.0024
70	824.2000030	0.0036	848.7999980	-0.0024
80	824.1999980	-0.0024	848.8000010	0.0012
85	824.2000040	0.0049	848.7999960	-0.0047

7.8.2 EDGE850

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 128 (824.2 MHz)		CH 251 (848.8 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	824.1999990	-0.0012	848.7999960	-0.0047
3.80	824.2000010	0.0012	848.7999980	-0.0024
4.37	824.2000010	0.0012	848.8000040	0.0047

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 128 (824.2 MHz)		CH 251 (848.8 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	824.1999980	-0.0024	848.8000030	0.0035
-30	824.1999970	-0.0036	848.7999980	-0.0024
-20	824.1999980	-0.0024	848.8000020	0.0024
-10	824.1999990	-0.0012	848.8000000	0.0000
0	824.1999980	-0.0024	848.7999980	-0.0024
10	824.2000040	0.0049	848.7999980	-0.0024
20	824.2000040	0.0049	848.8000010	0.0012
30	824.2000040	0.0049	848.7999970	-0.0035
40	824.1999960	-0.0049	848.8000040	0.0047
50	824.2000020	0.0024	848.7999990	-0.0012
60	824.1999960	-0.0049	848.7999960	-0.0047
70	824.1999970	-0.0036	848.7999990	-0.0012
80	824.2000040	0.0049	848.8000020	0.0024
85	824.2000020	0.0024	848.8000030	0.0035

7.8.3 GSM1900

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 512 (1850.2 MHz)		CH 810 (1909.8 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1850.2000020	0.0011	1909.8000010	0.0005
3.80	1850.1999980	-0.0011	1909.7999980	-0.0010
4.37	1850.1999990	-0.0005	1909.7999960	-0.0021

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 512 (1850.2 MHz)		CH 810 (1909.8 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1850.2000040	0.0022	1909.8000020	0.0010
-30	1850.2000040	0.0022	1909.7999960	-0.0021
-20	1850.1999980	-0.0011	1909.7999960	-0.0021
-10	1850.1999960	-0.0022	1909.8000020	0.0010
0	1850.2000010	0.0005	1909.8000010	0.0005
10	1850.2000020	0.0011	1909.8000030	0.0016
20	1850.1999970	-0.0016	1909.8000020	0.0010
30	1850.1999960	-0.0022	1909.7999960	-0.0021
40	1850.1999960	-0.0022	1909.7999970	-0.0016
50	1850.1999960	-0.0022	1909.7999960	-0.0021
60	1850.1999990	-0.0005	1909.8000010	0.0005
70	1850.2000030	0.0016	1909.7999970	-0.0016
80	1850.1999990	-0.0005	1909.8000040	0.0021
85	1850.1999980	-0.0011	1909.7999960	-0.0021

7.8.4 EDGE1900

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 512 (1850.2 MHz)		CH 810 (1909.8 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1850.1999970	-0.0016	1909.7999960	-0.0021
3.80	1850.1999960	-0.0022	1909.7999970	-0.0016
4.37	1850.1999970	-0.0016	1909.7999970	-0.0016

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 512 (1850.2 MHz)		CH 810 (1909.8 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1850.2000040	0.0022	1909.8000020	0.0010
-30	1850.2000020	0.0011	1909.7999990	-0.0005
-20	1850.1999970	-0.0016	1909.7999980	-0.0010
-10	1850.2000010	0.0005	1909.8000010	0.0005
0	1850.1999970	-0.0016	1909.8000010	0.0005
10	1850.1999970	-0.0016	1909.8000020	0.0010
20	1850.2000040	0.0022	1909.8000030	0.0016
30	1850.1999990	-0.0005	1909.8000010	0.0005
40	1850.2000040	0.0022	1909.7999980	-0.0010
50	1850.1999980	-0.0011	1909.8000040	0.0021
60	1850.1999980	-0.0011	1909.7999990	-0.0005
70	1850.2000030	0.0016	1909.7999960	-0.0021
80	1850.1999990	-0.0005	1909.8000010	0.0005
85	1850.1999980	-0.0011	1909.7999970	-0.0016

7.8.5 WCDMA Band 2

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 9262 (1852.4 MHz)		CH 9538 (1907.6 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1852.4000010	0.0005	1907.5999970	-0.0016
3.80	1852.3999990	-0.0005	1907.6000030	0.0016
4.37	1852.3999990	-0.0005	1907.6000020	0.0010

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 9262 (1852.4 MHz)		CH 9538 (1907.6 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1852.4000030	0.0016	1907.6000040	0.0021
-30	1852.3999960	-0.0022	1907.6000040	0.0021
-20	1852.4000040	0.0022	1907.6000040	0.0021
-10	1852.4000020	0.0011	1907.5999960	-0.0021
0	1852.3999970	-0.0016	1907.5999960	-0.0021
10	1852.4000030	0.0016	1907.5999980	-0.0010
20	1852.3999990	-0.0005	1907.6000010	0.0005
30	1852.3999970	-0.0016	1907.5999990	-0.0005
40	1852.3999970	-0.0016	1907.6000040	0.0021
50	1852.3999960	-0.0022	1907.6000010	0.0005
60	1852.4000010	0.0005	1907.5999980	-0.0010
70	1852.4000030	0.0016	1907.5999980	-0.0010
80	1852.3999960	-0.0022	1907.6000020	0.0010
85	1852.3999980	-0.0011	1907.5999980	-0.0010

7.8.6 WCDMA Band 4

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 1312 (1712.4 MHz)		CH 1513 (1752.6 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1712.3999970	-0.0018	1752.5999960	-0.0023
3.80	1712.4000020	0.0012	1752.5999970	-0.0017
4.37	1712.4000010	0.0006	1752.5999990	-0.0006

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 1312 (1712.4 MHz)		CH 1513 (1752.6 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1712.4000020	0.0012	1752.6000020	0.0011
-30	1712.4000030	0.0018	1752.5999980	-0.0011
-20	1712.4000040	0.0023	1752.6000020	0.0011
-10	1712.3999990	-0.0006	1752.5999990	-0.0006
0	1712.4000020	0.0012	1752.6000040	0.0023
10	1712.3999990	-0.0006	1752.6000040	0.0023
20	1712.3999990	-0.0006	1752.6000020	0.0011
30	1712.3999960	-0.0023	1752.5999990	-0.0006
40	1712.3999960	-0.0023	1752.5999990	-0.0006
50	1712.3999970	-0.0018	1752.5999970	-0.0017
60	1712.4000040	0.0023	1752.6000040	0.0023
70	1712.4000020	0.0012	1752.6000020	0.0011
80	1712.3999980	-0.0012	1752.5999980	-0.0011
85	1712.4000010	0.0006	1752.5999980	-0.0011

7.8.7 WCDMA Band 5

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 4132 (826.4 MHz)		CH 4223 (846.6 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	826.3999980	-0.0024	846.6000040	0.0047
3.80	826.4000030	0.0036	846.5999980	-0.0024
4.37	826.3999990	-0.0012	846.6000030	0.0035

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 4132 (826.4 MHz)		CH 4223 (846.6 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	826.3999960	-0.0048	846.6000030	0.0035
-30	826.3999960	-0.0048	846.6000020	0.0024
-20	826.3999960	-0.0048	846.6000010	0.0012
-10	826.4000010	0.0012	846.5999960	-0.0047
0	826.3999990	-0.0012	846.6000020	0.0024
10	826.4000040	0.0048	846.5999990	-0.0012
20	826.4000040	0.0048	846.5999980	-0.0024
30	826.4000010	0.0012	846.5999960	-0.0047
40	826.4000010	0.0012	846.5999980	-0.0024
50	826.4000040	0.0048	846.5999970	-0.0035
60	826.3999960	-0.0048	846.6000030	0.0035
70	826.3999960	-0.0048	846.5999980	-0.0024
80	826.4000010	0.0012	846.5999970	-0.0035
85	826.3999970	-0.0036	846.5999990	-0.0012

7.8.8 LTE Band 2

LTE Band 2, Channel Bandwidth: 1.4 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18607 (1850.7 MHz)		CH 19193 (1909.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1850.6999980	-0.0011	1909.2999960	-0.0021
3.80	1850.7000010	0.0005	1909.2999960	-0.0021
4.37	1850.7000010	0.0005	1909.2999990	-0.0005

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 18607 (1850.7 MHz)		CH 19193 (1909.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1850.7000010	0.0005	1909.2999970	-0.0016
-30	1850.7000030	0.0016	1909.3000040	0.0021
-20	1850.7000030	0.0016	1909.2999980	-0.0010
-10	1850.7000030	0.0016	1909.2999990	-0.0005
0	1850.7000030	0.0016	1909.3000030	0.0016
10	1850.7000020	0.0011	1909.3000010	0.0005
20	1850.6999990	-0.0005	1909.2999960	-0.0021
30	1850.7000020	0.0011	1909.2999970	-0.0016
40	1850.7000020	0.0011	1909.2999980	-0.0010
50	1850.7000040	0.0022	1909.3000010	0.0005
60	1850.7000010	0.0005	1909.2999960	-0.0021
70	1850.6999970	-0.0016	1909.3000010	0.0005
80	1850.6999970	-0.0016	1909.3000010	0.0005
85	1850.6999960	-0.0022	1909.3000030	0.0016

LTE Band 2, Channel Bandwidth: 3 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18615 (1851.5 MHz)		CH 19185 (1908.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1851.5000010	0.0005	1908.4999960	-0.0021
3.80	1851.5000010	0.0005	1908.4999990	-0.0005
4.37	1851.5000030	0.0016	1908.4999960	-0.0021

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 18615 (1851.5 MHz)		CH 19185 (1908.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1851.5000040	0.0022	1908.5000010	0.0005
-30	1851.5000040	0.0022	1908.5000030	0.0016
-20	1851.5000030	0.0016	1908.5000010	0.0005
-10	1851.4999970	-0.0016	1908.5000040	0.0021
0	1851.5000030	0.0016	1908.5000040	0.0021
10	1851.4999990	-0.0005	1908.5000040	0.0021
20	1851.5000030	0.0016	1908.4999980	-0.0010
30	1851.4999990	-0.0005	1908.5000020	0.0010
40	1851.5000010	0.0005	1908.5000020	0.0010
50	1851.4999980	-0.0011	1908.5000030	0.0016
60	1851.4999990	-0.0005	1908.5000030	0.0016
70	1851.5000030	0.0016	1908.5000030	0.0016
80	1851.4999960	-0.0022	1908.5000040	0.0021
85	1851.4999990	-0.0005	1908.5000030	0.0016

LTE Band 2, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18625 (1852.5 MHz)		CH 19175 (1907.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1852.4999990	-0.0005	1907.4999970	-0.0016
3.80	1852.5000030	0.0016	1907.4999970	-0.0016
4.37	1852.5000010	0.0005	1907.5000020	0.0010

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 18625 (1852.5 MHz)		CH 19175 (1907.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1852.5000010	0.0005	1907.5000030	0.0016
-30	1852.5000020	0.0011	1907.4999990	-0.0005
-20	1852.4999960	-0.0022	1907.5000010	0.0005
-10	1852.5000030	0.0016	1907.4999980	-0.0010
0	1852.5000030	0.0016	1907.5000040	0.0021
10	1852.5000040	0.0022	1907.5000020	0.0010
20	1852.5000030	0.0016	1907.5000040	0.0021
30	1852.5000040	0.0022	1907.5000010	0.0005
40	1852.5000010	0.0005	1907.4999980	-0.0010
50	1852.5000020	0.0011	1907.4999970	-0.0016
60	1852.5000020	0.0011	1907.5000010	0.0005
70	1852.5000020	0.0011	1907.5000040	0.0021
80	1852.5000040	0.0022	1907.4999960	-0.0021
85	1852.5000010	0.0005	1907.5000010	0.0005

LTE Band 2, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18650 (1855 MHz)		CH 19150 (1905 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1854.9999990	-0.0005	1905.0000030	0.0016
3.80	1855.0000030	0.0016	1905.0000040	0.0021
4.37	1855.0000010	0.0005	1905.0000030	0.0016

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 18650 (1855 MHz)		CH 19150 (1905 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1854.9999990	-0.0005	1904.9999960	-0.0021
-30	1855.0000020	0.0011	1905.0000030	0.0016
-20	1854.9999960	-0.0022	1904.9999990	-0.0005
-10	1854.9999990	-0.0005	1904.9999960	-0.0021
0	1854.9999960	-0.0022	1904.9999980	-0.0010
10	1854.9999990	-0.0005	1904.9999970	-0.0016
20	1855.0000040	0.0022	1904.9999990	-0.0005
30	1854.9999990	-0.0005	1904.9999960	-0.0021
40	1854.9999960	-0.0022	1905.0000030	0.0016
50	1855.0000010	0.0005	1904.9999990	-0.0005
60	1855.0000030	0.0016	1905.0000010	0.0005
70	1855.0000010	0.0005	1904.9999980	-0.0010
80	1855.0000030	0.0016	1905.0000020	0.0010
85	1854.9999990	-0.0005	1904.9999980	-0.0010

LTE Band 2, Channel Bandwidth: 15 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18675 (1857.5 MHz)		CH 19125 (1902.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1857.4999960	-0.0022	1902.5000030	0.0016
3.80	1857.4999980	-0.0011	1902.5000030	0.0016
4.37	1857.5000040	0.0022	1902.5000020	0.0011

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 18675 (1857.5 MHz)		CH 19125 (1902.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1857.4999980	-0.0011	1902.5000010	0.0005
-30	1857.5000040	0.0022	1902.4999970	-0.0016
-20	1857.4999970	-0.0016	1902.4999960	-0.0021
-10	1857.5000020	0.0011	1902.4999970	-0.0016
0	1857.5000020	0.0011	1902.4999980	-0.0011
10	1857.4999960	-0.0022	1902.4999970	-0.0016
20	1857.5000010	0.0005	1902.4999960	-0.0021
30	1857.5000020	0.0011	1902.4999970	-0.0016
40	1857.4999970	-0.0016	1902.4999970	-0.0016
50	1857.4999990	-0.0005	1902.5000030	0.0016
60	1857.5000030	0.0016	1902.5000010	0.0005
70	1857.4999970	-0.0016	1902.5000020	0.0011
80	1857.5000010	0.0005	1902.5000020	0.0011
85	1857.5000030	0.0016	1902.4999980	-0.0011

LTE Band 2, Channel Bandwidth: 20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18700 (1860 MHz)		CH 19100 (1900 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1859.9999970	-0.0016	1900.0000010	0.0005
3.80	1859.9999980	-0.0011	1900.0000020	0.0011
4.37	1860.0000010	0.0005	1900.0000030	0.0016

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 18700 (1860 MHz)		CH 19100 (1900 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1859.9999980	-0.0011	1900.0000030	0.0016
-30	1859.9999960	-0.0022	1899.9999980	-0.0011
-20	1860.0000030	0.0016	1900.0000020	0.0011
-10	1859.9999980	-0.0011	1899.9999960	-0.0021
0	1860.0000020	0.0011	1899.9999970	-0.0016
10	1860.0000020	0.0011	1900.0000020	0.0011
20	1859.9999990	-0.0005	1899.9999990	-0.0005
30	1859.9999960	-0.0022	1900.0000010	0.0005
40	1859.9999970	-0.0016	1900.0000030	0.0016
50	1859.9999980	-0.0011	1899.9999980	-0.0011
60	1860.0000040	0.0022	1899.9999990	-0.0005
70	1859.9999990	-0.0005	1900.0000010	0.0005
80	1859.9999970	-0.0016	1900.0000020	0.0011
85	1860.0000040	0.0022	1899.9999980	-0.0011

7.8.9 LTE Band 4

LTE Band 4, Channel Bandwidth: 1.4 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 19957 (1710.7 MHz)		CH 20393 (1754.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1710.7000010	0.0006	1754.3000010	0.0006
3.80	1710.7000010	0.0006	1754.3000040	0.0023
4.37	1710.7000030	0.0018	1754.2999990	-0.0006

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 19957 (1710.7 MHz)		CH 20393 (1754.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1710.6999970	-0.0018	1754.2999970	-0.0017
-30	1710.7000030	0.0018	1754.2999970	-0.0017
-20	1710.7000020	0.0012	1754.2999960	-0.0023
-10	1710.7000040	0.0023	1754.3000040	0.0023
0	1710.6999990	-0.0006	1754.3000040	0.0023
10	1710.7000010	0.0006	1754.2999980	-0.0011
20	1710.6999990	-0.0006	1754.3000010	0.0006
30	1710.6999970	-0.0018	1754.2999960	-0.0023
40	1710.7000010	0.0006	1754.3000030	0.0017
50	1710.7000030	0.0018	1754.2999990	-0.0006
60	1710.7000040	0.0023	1754.3000040	0.0023
70	1710.6999980	-0.0012	1754.3000020	0.0011
80	1710.6999980	-0.0012	1754.3000040	0.0023
85	1710.6999960	-0.0023	1754.3000030	0.0017

LTE Band 4, Channel Bandwidth: 3 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 19965 (1711.5 MHz)		CH 20385 (1753.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1711.5000040	0.0023	1753.4999980	-0.0011
3.80	1711.4999990	-0.0006	1753.4999960	-0.0023
4.37	1711.5000010	0.0006	1753.4999980	-0.0011

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 19965 (1711.5 MHz)		CH 20385 (1753.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1711.4999970	-0.0018	1753.4999960	-0.0023
-30	1711.4999970	-0.0018	1753.5000040	0.0023
-20	1711.5000030	0.0018	1753.4999970	-0.0017
-10	1711.5000020	0.0012	1753.4999980	-0.0011
0	1711.5000020	0.0012	1753.5000030	0.0017
10	1711.4999970	-0.0018	1753.5000020	0.0011
20	1711.4999990	-0.0006	1753.4999990	-0.0006
30	1711.5000040	0.0023	1753.4999980	-0.0011
40	1711.5000030	0.0018	1753.5000010	0.0006
50	1711.4999970	-0.0018	1753.4999960	-0.0023
60	1711.4999990	-0.0006	1753.4999970	-0.0017
70	1711.4999990	-0.0006	1753.4999980	-0.0011
80	1711.5000010	0.0006	1753.5000040	0.0023
85	1711.5000030	0.0018	1753.4999990	-0.0006

LTE Band 4, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 19975 (1712.5 MHz)		CH 20375 (1752.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1712.5000040	0.0023	1752.4999990	-0.0006
3.80	1712.4999970	-0.0018	1752.5000020	0.0011
4.37	1712.5000040	0.0023	1752.4999990	-0.0006

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 19975 (1712.5 MHz)		CH 20375 (1752.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1712.5000020	0.0012	1752.5000030	0.0017
-30	1712.4999960	-0.0023	1752.5000030	0.0017
-20	1712.5000030	0.0018	1752.4999970	-0.0017
-10	1712.4999970	-0.0018	1752.4999980	-0.0011
0	1712.5000030	0.0018	1752.4999960	-0.0023
10	1712.4999960	-0.0023	1752.5000040	0.0023
20	1712.4999990	-0.0006	1752.5000030	0.0017
30	1712.5000040	0.0023	1752.4999980	-0.0011
40	1712.5000030	0.0018	1752.4999990	-0.0006
50	1712.4999980	-0.0012	1752.4999970	-0.0017
60	1712.5000020	0.0012	1752.4999980	-0.0011
70	1712.4999960	-0.0023	1752.4999990	-0.0006
80	1712.5000040	0.0023	1752.5000020	0.0011
85	1712.5000010	0.0006	1752.4999960	-0.0023

LTE Band 4, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20000 (1715 MHz)		CH 20350 (1750 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1714.9999980	-0.0012	1750.0000010	0.0006
3.80	1715.0000020	0.0012	1750.0000040	0.0023
4.37	1715.0000030	0.0017	1749.9999980	-0.0011

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 20000 (1715 MHz)		CH 20350 (1750 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1715.0000010	0.0006	1749.9999960	-0.0023
-30	1714.9999970	-0.0017	1749.9999990	-0.0006
-20	1714.9999990	-0.0006	1749.9999960	-0.0023
-10	1715.0000010	0.0006	1750.0000020	0.0011
0	1714.9999970	-0.0017	1750.0000020	0.0011
10	1715.0000020	0.0012	1750.0000020	0.0011
20	1715.0000030	0.0017	1750.0000030	0.0017
30	1715.0000020	0.0012	1750.0000010	0.0006
40	1715.0000040	0.0023	1749.9999980	-0.0011
50	1715.0000020	0.0012	1749.9999960	-0.0023
60	1714.9999960	-0.0023	1750.0000020	0.0011
70	1714.9999970	-0.0017	1749.9999990	-0.0006
80	1714.9999990	-0.0006	1749.9999990	-0.0006
85	1714.9999990	-0.0006	1749.9999960	-0.0023

LTE Band 4, Channel Bandwidth: 15 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20025 (1717.5 MHz)		CH 20325 (1747.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1717.5000040	0.0023	1747.4999980	-0.0011
3.80	1717.4999970	-0.0017	1747.5000010	0.0006
4.37	1717.5000040	0.0023	1747.5000020	0.0011

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 20025 (1717.5 MHz)		CH 20325 (1747.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1717.4999970	-0.0017	1747.5000010	0.0006
-30	1717.4999980	-0.0012	1747.5000040	0.0023
-20	1717.5000020	0.0012	1747.5000040	0.0023
-10	1717.4999990	-0.0006	1747.4999980	-0.0011
0	1717.4999980	-0.0012	1747.4999990	-0.0006
10	1717.5000030	0.0017	1747.4999970	-0.0017
20	1717.5000030	0.0017	1747.5000040	0.0023
30	1717.5000030	0.0017	1747.5000040	0.0023
40	1717.5000010	0.0006	1747.5000030	0.0017
50	1717.5000040	0.0023	1747.4999980	-0.0011
60	1717.4999960	-0.0023	1747.5000030	0.0017
70	1717.4999960	-0.0023	1747.4999990	-0.0006
80	1717.4999960	-0.0023	1747.5000020	0.0011
85	1717.4999980	-0.0012	1747.4999980	-0.0011

LTE Band 4, Channel Bandwidth: 20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20050 (1720 MHz)		CH 20300 (1745 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1719.9999960	-0.0023	1744.9999990	-0.0006
3.80	1719.9999990	-0.0006	1745.0000040	0.0023
4.37	1719.9999980	-0.0012	1745.0000030	0.0017

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 20050 (1720 MHz)		CH 20300 (1745 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1719.9999960	-0.0023	1744.9999980	-0.0011
-30	1719.9999990	-0.0006	1745.0000010	0.0006
-20	1720.0000010	0.0006	1744.9999960	-0.0023
-10	1720.0000040	0.0023	1745.0000040	0.0023
0	1719.9999960	-0.0023	1744.9999970	-0.0017
10	1719.9999980	-0.0012	1745.0000030	0.0017
20	1720.0000020	0.0012	1744.9999960	-0.0023
30	1719.9999960	-0.0023	1745.0000040	0.0023
40	1719.9999980	-0.0012	1745.0000030	0.0017
50	1719.9999970	-0.0017	1745.0000030	0.0017
60	1719.9999970	-0.0017	1745.0000030	0.0017
70	1719.9999970	-0.0017	1745.0000040	0.0023
80	1720.0000010	0.0006	1745.0000010	0.0006
85	1719.9999990	-0.0006	1745.0000020	0.0011

7.8.10 LTE Band 5

LTE Band 5, Channel Bandwidth: 1.4 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20407 (824.7 MHz)		CH 20643 (848.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	824.7000020	0.0024	848.2999970	-0.0035
3.80	824.7000020	0.0024	848.2999990	-0.0012
4.37	824.7000030	0.0036	848.2999980	-0.0024

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 20407 (824.7 MHz)		CH 20643 (848.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	824.7000030	0.0036	848.3000040	0.0047
-30	824.7000010	0.0012	848.3000030	0.0035
-20	824.6999990	-0.0012	848.2999980	-0.0024
-10	824.7000040	0.0049	848.3000040	0.0047
0	824.7000020	0.0024	848.3000020	0.0024
10	824.7000040	0.0049	848.2999970	-0.0035
20	824.7000010	0.0012	848.3000030	0.0035
30	824.6999980	-0.0024	848.3000030	0.0035
40	824.6999980	-0.0024	848.2999970	-0.0035
50	824.6999980	-0.0024	848.3000010	0.0012
60	824.7000030	0.0036	848.3000030	0.0035
70	824.7000010	0.0012	848.3000010	0.0012
80	824.6999960	-0.0049	848.2999960	-0.0047
85	824.6999960	-0.0049	848.3000040	0.0047

LTE Band 5, Channel Bandwidth: 3 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20415 (825.5 MHz)		CH 20635 (847.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	825.4999970	-0.0036	847.5000020	0.0024
3.80	825.5000040	0.0048	847.5000040	0.0047
4.37	825.4999970	-0.0036	847.5000020	0.0024

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 20415 (825.5 MHz)		CH 20635 (847.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	825.4999970	-0.0036	847.4999960	-0.0047
-30	825.4999970	-0.0036	847.4999960	-0.0047
-20	825.4999990	-0.0012	847.5000030	0.0035
-10	825.5000040	0.0048	847.5000030	0.0035
0	825.5000010	0.0012	847.5000020	0.0024
10	825.5000020	0.0024	847.4999980	-0.0024
20	825.5000040	0.0048	847.5000030	0.0035
30	825.5000040	0.0048	847.4999990	-0.0012
40	825.4999990	-0.0012	847.4999990	-0.0012
50	825.5000020	0.0024	847.4999970	-0.0035
60	825.4999990	-0.0012	847.4999970	-0.0035
70	825.4999960	-0.0048	847.4999960	-0.0047
80	825.5000020	0.0024	847.4999970	-0.0035
85	825.5000030	0.0036	847.5000010	0.0012

LTE Band 5, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20425 (826.5 MHz)		CH 20625 (846.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	826.5000040	0.0048	846.5000020	0.0024
3.80	826.5000040	0.0048	846.4999980	-0.0024
4.37	826.4999980	-0.0024	846.4999960	-0.0047

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 20425 (826.5 MHz)		CH 20625 (846.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	826.4999990	-0.0012	846.4999960	-0.0047
-30	826.4999970	-0.0036	846.5000020	0.0024
-20	826.4999960	-0.0048	846.4999990	-0.0012
-10	826.4999980	-0.0024	846.5000020	0.0024
0	826.4999990	-0.0012	846.4999980	-0.0024
10	826.5000020	0.0024	846.4999970	-0.0035
20	826.5000030	0.0036	846.4999980	-0.0024
30	826.5000040	0.0048	846.4999990	-0.0012
40	826.5000040	0.0048	846.5000020	0.0024
50	826.5000020	0.0024	846.4999980	-0.0024
60	826.5000020	0.0024	846.4999990	-0.0012
70	826.5000030	0.0036	846.5000020	0.0024
80	826.5000030	0.0036	846.4999980	-0.0024
85	826.5000030	0.0036	846.4999990	-0.0012

LTE Band 5, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20450 (829 MHz)		CH 20600 (844 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	828.9999980	-0.0024	844.0000030	0.0036
3.80	828.9999990	-0.0012	843.9999960	-0.0047
4.37	829.0000010	0.0012	843.9999960	-0.0047

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 20450 (829 MHz)		CH 20600 (844 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	829.0000040	0.0048	844.0000010	0.0012
-30	829.0000020	0.0024	843.9999970	-0.0036
-20	828.9999980	-0.0024	843.9999990	-0.0012
-10	829.0000030	0.0036	844.0000010	0.0012
0	829.0000020	0.0024	844.0000040	0.0047
10	828.9999980	-0.0024	843.9999990	-0.0012
20	829.0000040	0.0048	843.9999990	-0.0012
30	829.0000020	0.0024	843.9999960	-0.0047
40	828.9999960	-0.0048	844.0000040	0.0047
50	828.9999990	-0.0012	844.0000040	0.0047
60	829.0000040	0.0048	844.0000030	0.0036
70	829.0000030	0.0036	844.0000040	0.0047
80	828.9999970	-0.0036	844.0000010	0.0012
85	828.9999970	-0.0036	843.9999990	-0.0012

7.8.11 LTE Band 7

LTE Band 7, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20775 (2502.5 MHz)		CH 21425 (2567.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	2502.5000020	0.0008	2567.5000040	0.0016
3.80	2502.4999960	-0.0016	2567.5000030	0.0012
4.37	2502.5000010	0.0004	2567.4999990	-0.0004

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 20775 (2502.5 MHz)		CH 21425 (2567.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	2502.4999970	-0.0012	2567.4999980	-0.0008
-30	2502.5000010	0.0004	2567.4999990	-0.0004
-20	2502.4999970	-0.0012	2567.5000010	0.0004
-10	2502.4999980	-0.0008	2567.4999970	-0.0012
0	2502.5000040	0.0016	2567.5000040	0.0016
10	2502.5000030	0.0012	2567.4999970	-0.0012
20	2502.5000040	0.0016	2567.4999970	-0.0012
30	2502.5000020	0.0008	2567.5000030	0.0012
40	2502.4999970	-0.0012	2567.5000010	0.0004
50	2502.5000010	0.0004	2567.5000040	0.0016
60	2502.5000010	0.0004	2567.4999960	-0.0016
70	2502.4999960	-0.0016	2567.4999960	-0.0016
80	2502.4999980	-0.0008	2567.5000030	0.0012
85	2502.5000030	0.0012	2567.5000020	0.0008

LTE Band 7, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20800 (2505 MHz)		CH 21400 (2565 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	2504.9999960	-0.0016	2564.9999980	-0.0008
3.80	2505.0000020	0.0008	2564.9999990	-0.0004
4.37	2504.9999970	-0.0012	2565.0000010	0.0004

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 20800 (2505 MHz)		CH 21400 (2565 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	2505.0000010	0.0004	2564.9999990	-0.0004
-30	2504.9999990	-0.0004	2564.9999990	-0.0004
-20	2504.9999990	-0.0004	2565.0000040	0.0016
-10	2505.0000010	0.0004	2565.0000030	0.0012
0	2505.0000020	0.0008	2565.0000040	0.0016
10	2504.9999970	-0.0012	2565.0000030	0.0012
20	2504.9999980	-0.0008	2564.9999980	-0.0008
30	2505.0000010	0.0004	2565.0000020	0.0008
40	2504.9999990	-0.0004	2565.0000020	0.0008
50	2505.0000040	0.0016	2564.9999980	-0.0008
60	2505.0000020	0.0008	2564.9999970	-0.0012
70	2505.0000010	0.0004	2565.0000020	0.0008
80	2504.9999980	-0.0008	2565.0000020	0.0008
85	2504.9999960	-0.0016	2565.0000020	0.0008

LTE Band 7, Channel Bandwidth: 15 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20825 (2507.5 MHz)		CH 21375 (2562.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	2507.4999960	-0.0016	2562.4999960	-0.0016
3.80	2507.5000030	0.0012	2562.4999960	-0.0016
4.37	2507.4999960	-0.0016	2562.5000020	0.0008

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 20825 (2507.5 MHz)		CH 21375 (2562.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	2507.4999980	-0.0008	2562.4999970	-0.0012
-30	2507.5000030	0.0012	2562.4999960	-0.0016
-20	2507.4999970	-0.0012	2562.4999960	-0.0016
-10	2507.5000030	0.0012	2562.4999970	-0.0012
0	2507.4999990	-0.0004	2562.4999980	-0.0008
10	2507.5000010	0.0004	2562.5000020	0.0008
20	2507.4999960	-0.0016	2562.4999960	-0.0016
30	2507.4999990	-0.0004	2562.4999990	-0.0004
40	2507.4999980	-0.0008	2562.4999970	-0.0012
50	2507.4999960	-0.0016	2562.4999990	-0.0004
60	2507.5000020	0.0008	2562.5000010	0.0004
70	2507.4999990	-0.0004	2562.5000040	0.0016
80	2507.4999990	-0.0004	2562.5000010	0.0004
85	2507.5000040	0.0016	2562.4999980	-0.0008

LTE Band 7, Channel Bandwidth: 20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20850 (2510 MHz)		CH 21350 (2560 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	2509.9999980	-0.0008	2560.0000030	0.0012
3.80	2510.0000030	0.0012	2560.0000010	0.0004
4.37	2509.9999980	-0.0008	2559.9999970	-0.0012

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 20850 (2510 MHz)		CH 21350 (2560 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	2510.0000040	0.0016	2559.9999980	-0.0008
-30	2509.9999980	-0.0008	2559.9999960	-0.0016
-20	2510.0000030	0.0012	2559.9999980	-0.0008
-10	2509.9999970	-0.0012	2560.0000010	0.0004
0	2510.0000030	0.0012	2560.0000010	0.0004
10	2510.0000030	0.0012	2559.9999960	-0.0016
20	2509.9999980	-0.0008	2560.0000010	0.0004
30	2509.9999970	-0.0012	2560.0000020	0.0008
40	2510.0000010	0.0004	2560.0000010	0.0004
50	2510.0000010	0.0004	2560.0000040	0.0016
60	2510.0000020	0.0008	2560.0000030	0.0012
70	2510.0000030	0.0012	2559.9999980	-0.0008
80	2510.0000030	0.0012	2560.0000040	0.0016
85	2509.9999960	-0.0016	2560.0000030	0.0012

7.8.12 LTE Band 12

LTE Band 12, Channel Bandwidth: 1.4 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23017 (699.7 MHz)		CH 23173 (715.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	699.6999960	-0.0057	715.3000040	0.0056
3.80	699.7000010	0.0014	715.2999990	-0.0014
4.37	699.6999970	-0.0043	715.3000020	0.0028

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 23017 (699.7 MHz)		CH 23173 (715.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	699.6999960	-0.0057	715.3000020	0.0028
-30	699.7000030	0.0043	715.3000030	0.0042
-20	699.6999980	-0.0029	715.3000010	0.0014
-10	699.7000030	0.0043	715.2999990	-0.0014
0	699.6999960	-0.0057	715.3000020	0.0028
10	699.6999980	-0.0029	715.2999960	-0.0056
20	699.6999980	-0.0029	715.3000040	0.0056
30	699.7000020	0.0029	715.2999970	-0.0042
40	699.6999970	-0.0043	715.2999970	-0.0042
50	699.7000030	0.0043	715.2999970	-0.0042
60	699.7000040	0.0057	715.2999990	-0.0014
70	699.6999970	-0.0043	715.2999980	-0.0028
80	699.7000030	0.0043	715.3000030	0.0042
85	699.6999980	-0.0029	715.2999980	-0.0028

LTE Band 12, Channel Bandwidth: 3 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23025 (700.5 MHz)		CH 23165 (714.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	700.5000040	0.0057	714.4999990	-0.0014
3.80	700.5000020	0.0029	714.4999970	-0.0042
4.37	700.4999990	-0.0014	714.4999990	-0.0014

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 23025 (700.5 MHz)		CH 23165 (714.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	700.4999960	-0.0057	714.4999990	-0.0014
-30	700.5000030	0.0043	714.5000010	0.0014
-20	700.5000030	0.0043	714.4999990	-0.0014
-10	700.5000040	0.0057	714.5000010	0.0014
0	700.4999980	-0.0029	714.5000010	0.0014
10	700.5000040	0.0057	714.5000010	0.0014
20	700.4999970	-0.0043	714.5000020	0.0028
30	700.4999980	-0.0029	714.4999980	-0.0028
40	700.4999960	-0.0057	714.4999990	-0.0014
50	700.5000020	0.0029	714.4999980	-0.0028
60	700.5000040	0.0057	714.5000040	0.0056
70	700.4999960	-0.0057	714.4999970	-0.0042
80	700.4999970	-0.0043	714.4999990	-0.0014
85	700.4999960	-0.0057	714.5000040	0.0056

LTE Band 12, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23035 (701.5 MHz)		CH 23155 (713.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	701.5000010	0.0014	713.4999990	-0.0014
3.80	701.4999980	-0.0029	713.4999970	-0.0042
4.37	701.5000030	0.0043	713.4999970	-0.0042

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 23035 (701.5 MHz)		CH 23155 (713.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	701.4999980	-0.0029	713.4999970	-0.0042
-30	701.4999990	-0.0014	713.5000030	0.0042
-20	701.4999960	-0.0057	713.5000040	0.0056
-10	701.5000020	0.0029	713.5000030	0.0042
0	701.4999960	-0.0057	713.5000010	0.0014
10	701.5000040	0.0057	713.5000010	0.0014
20	701.5000040	0.0057	713.4999990	-0.0014
30	701.5000020	0.0029	713.4999990	-0.0014
40	701.5000010	0.0014	713.5000010	0.0014
50	701.4999970	-0.0043	713.4999980	-0.0028
60	701.4999980	-0.0029	713.4999970	-0.0042
70	701.5000040	0.0057	713.4999960	-0.0056
80	701.5000040	0.0057	713.4999960	-0.0056
85	701.4999980	-0.0029	713.4999980	-0.0028

LTE Band 12, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23060 (704 MHz)		CH 23130 (711 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	704.0000030	0.0043	711.0000030	0.0042
3.80	704.0000010	0.0014	711.0000020	0.0028
4.37	704.0000040	0.0057	710.9999970	-0.0042

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 23060 (704 MHz)		CH 23130 (711 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	704.0000040	0.0057	711.0000020	0.0028
-30	704.0000040	0.0057	710.9999960	-0.0056
-20	704.0000010	0.0014	711.0000030	0.0042
-10	704.0000030	0.0043	710.9999980	-0.0028
0	703.9999980	-0.0028	710.9999980	-0.0028
10	704.0000010	0.0014	710.9999960	-0.0056
20	703.9999970	-0.0043	710.9999970	-0.0042
30	704.0000020	0.0028	710.9999990	-0.0014
40	704.0000020	0.0028	711.0000030	0.0042
50	703.9999970	-0.0043	710.9999980	-0.0028
60	703.9999980	-0.0028	711.0000020	0.0028
70	704.0000020	0.0028	711.0000040	0.0056
80	704.0000020	0.0028	710.9999990	-0.0014
85	704.0000020	0.0028	710.9999960	-0.0056

7.8.13 LTE Band 13

LTE Band 13, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23205 (779.5 MHz)		CH 23255 (784.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	779.4999990	-0.0013	784.4999980	-0.0025
3.80	779.4999960	-0.0051	784.4999960	-0.0051
4.37	779.4999960	-0.0051	784.4999980	-0.0025

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 23205 (779.5 MHz)		CH 23255 (784.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	779.5000010	0.0013	784.5000030	0.0038
-30	779.4999980	-0.0026	784.5000040	0.0051
-20	779.4999980	-0.0026	784.4999970	-0.0038
-10	779.4999970	-0.0038	784.5000010	0.0013
0	779.5000010	0.0013	784.4999970	-0.0038
10	779.4999980	-0.0026	784.5000040	0.0051
20	779.5000020	0.0026	784.4999980	-0.0025
30	779.5000020	0.0026	784.5000010	0.0013
40	779.4999980	-0.0026	784.4999970	-0.0038
50	779.4999960	-0.0051	784.4999980	-0.0025
60	779.4999990	-0.0013	784.5000010	0.0013
70	779.4999970	-0.0038	784.4999980	-0.0025
80	779.4999990	-0.0013	784.4999960	-0.0051
85	779.4999960	-0.0051	784.4999970	-0.0038

LTE Band 13, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage		
Voltage (Vdc)	CH 23230 (782 MHz)	
	Frequency (MHz)	Frequency Error (ppm)
3.23	782.0000030	0.0038
3.80	781.9999970	-0.0038
4.37	781.9999990	-0.0013

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

Frequency Stability Versus Temperature		
Temperature (℃)	CH 23230 (782 MHz)	
	Frequency (MHz)	Frequency Error (ppm)
-40	782.0000020	0.0026
-30	781.9999970	-0.0038
-20	782.0000020	0.0026
-10	781.9999990	-0.0013
0	782.0000010	0.0013
10	782.0000010	0.0013
20	782.0000020	0.0026
30	781.9999980	-0.0026
40	781.9999990	-0.0013
50	781.9999970	-0.0038
60	781.9999990	-0.0013
70	781.9999960	-0.0051
80	781.9999970	-0.0038
85	781.9999960	-0.0051

7.8.14 LTE Band 17

LTE Band 17, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23755 (706.5 MHz)		CH 23825 (713.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	706.4999970	-0.0042	713.5000030	0.0042
3.80	706.5000040	0.0057	713.5000030	0.0042
4.37	706.5000030	0.0042	713.5000010	0.0014

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 23755 (706.5 MHz)		CH 23825 (713.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	706.5000040	0.0057	713.5000040	0.0056
-30	706.5000010	0.0014	713.5000010	0.0014
-20	706.5000020	0.0028	713.5000020	0.0028
-10	706.5000040	0.0057	713.5000010	0.0014
0	706.4999990	-0.0014	713.5000040	0.0056
10	706.5000040	0.0057	713.5000010	0.0014
20	706.5000040	0.0057	713.5000030	0.0042
30	706.4999960	-0.0057	713.5000010	0.0014
40	706.4999990	-0.0014	713.4999960	-0.0056
50	706.5000040	0.0057	713.5000040	0.0056
60	706.5000030	0.0042	713.4999970	-0.0042
70	706.4999970	-0.0042	713.5000010	0.0014
80	706.5000010	0.0014	713.4999990	-0.0014
85	706.4999960	-0.0057	713.4999990	-0.0014

LTE Band 17, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23780 (709 MHz)		CH 23800 (711 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	709.0000010	0.0014	710.9999990	-0.0014
3.80	709.0000040	0.0056	710.9999980	-0.0028
4.37	708.9999960	-0.0056	710.9999990	-0.0014

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

Frequency Stability Versus Temperature				
Temperature (℃)	CH 23780 (709 MHz)		CH 23800 (711 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	709.0000030	0.0042	711.0000020	0.0028
-30	709.0000010	0.0014	710.9999970	-0.0042
-20	709.0000030	0.0042	711.0000030	0.0042
-10	709.0000020	0.0028	710.9999970	-0.0042
0	709.0000030	0.0042	711.0000010	0.0014
10	708.9999960	-0.0056	710.9999970	-0.0042
20	708.9999990	-0.0014	710.9999970	-0.0042
30	708.9999990	-0.0014	711.0000010	0.0014
40	708.9999980	-0.0028	711.0000010	0.0014
50	709.0000010	0.0014	710.9999980	-0.0028
60	708.9999980	-0.0028	711.0000010	0.0014
70	708.9999960	-0.0056	710.9999980	-0.0028
80	709.0000040	0.0056	710.9999990	-0.0014
85	708.9999990	-0.0014	711.0000010	0.0014

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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