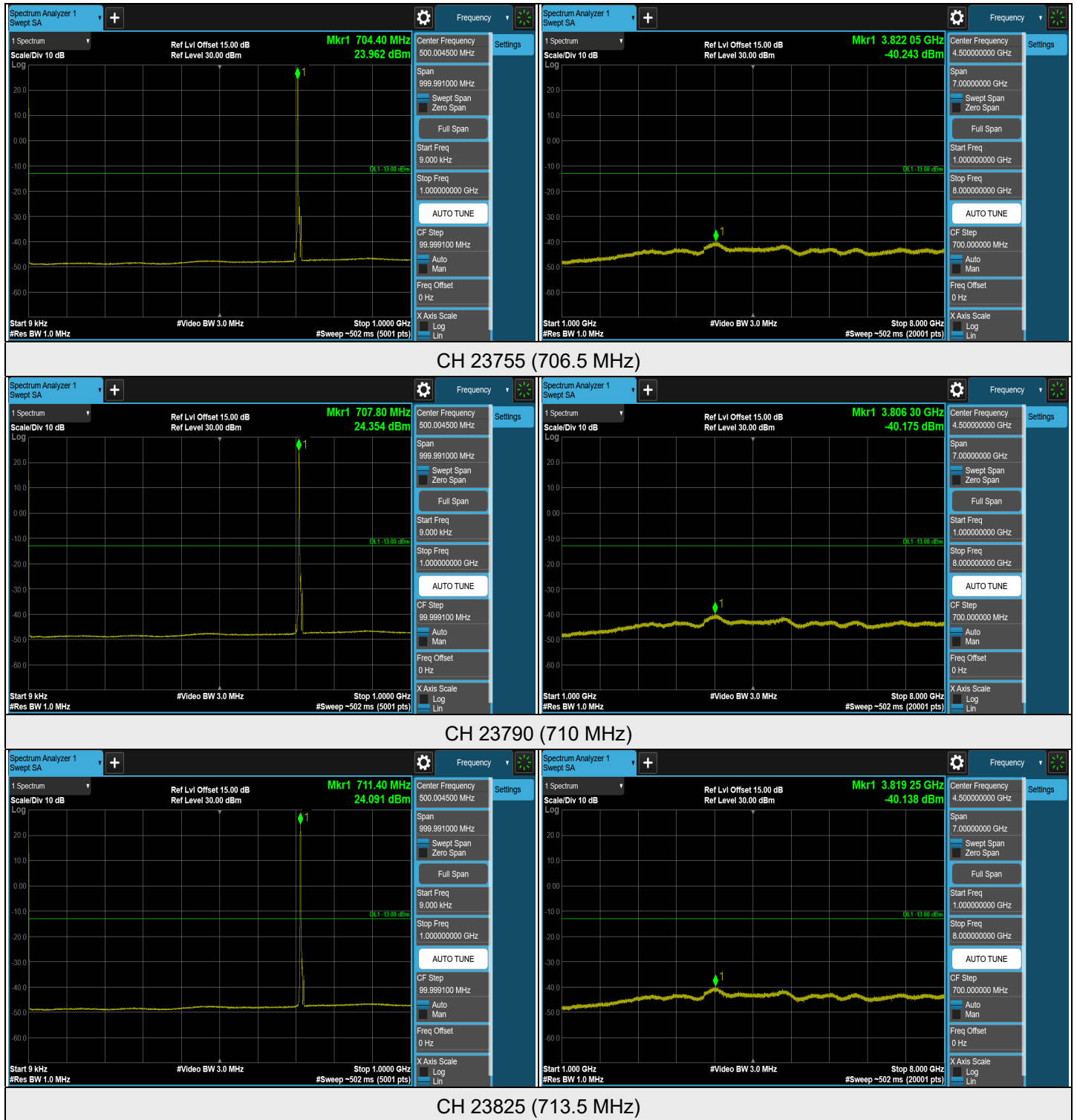




7.5.5 LTE Band 17

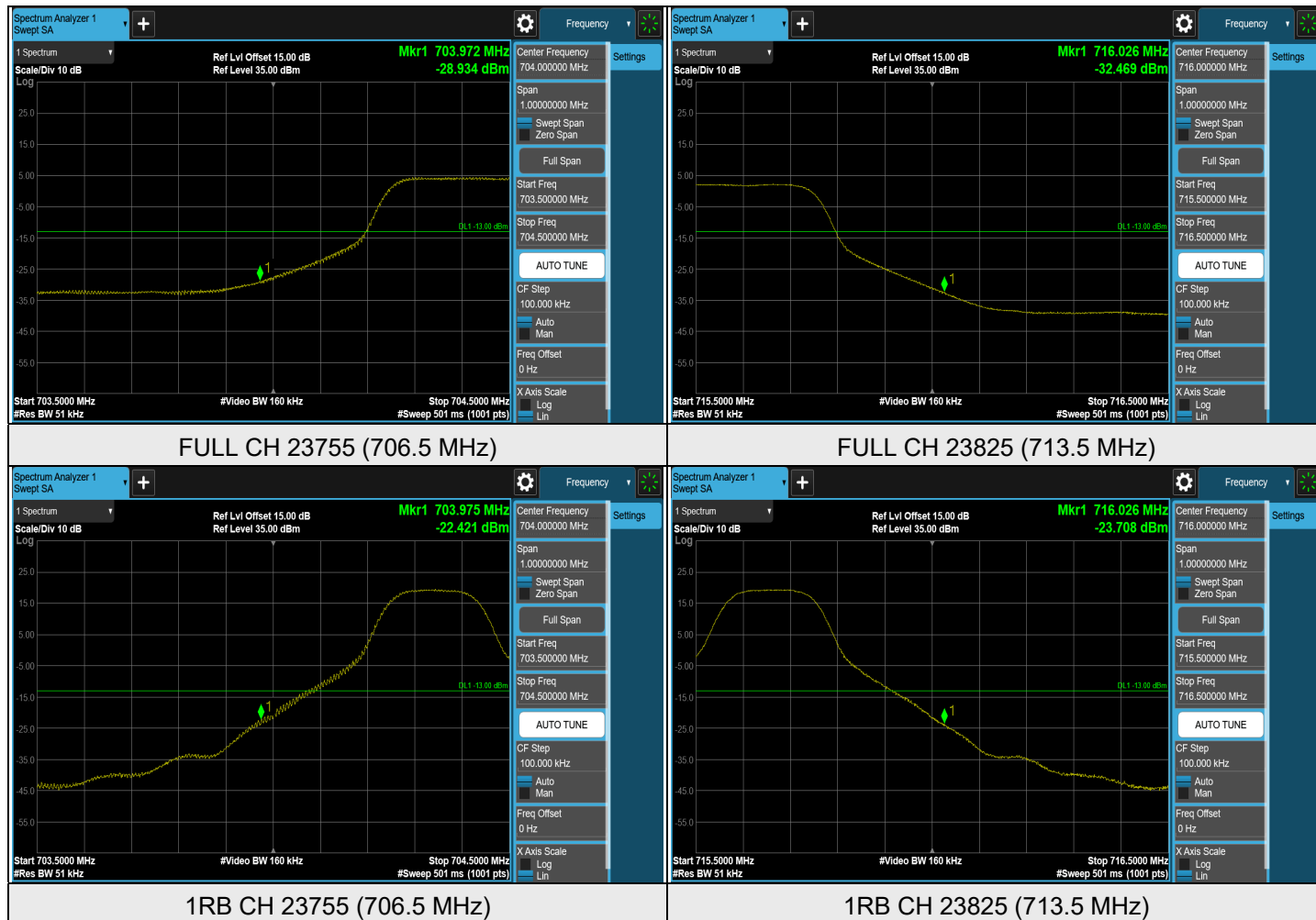
LTE Band 17, Channel Bandwidth: 5 MHz



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



LTE Band 17, Channel Bandwidth: 5 MHz

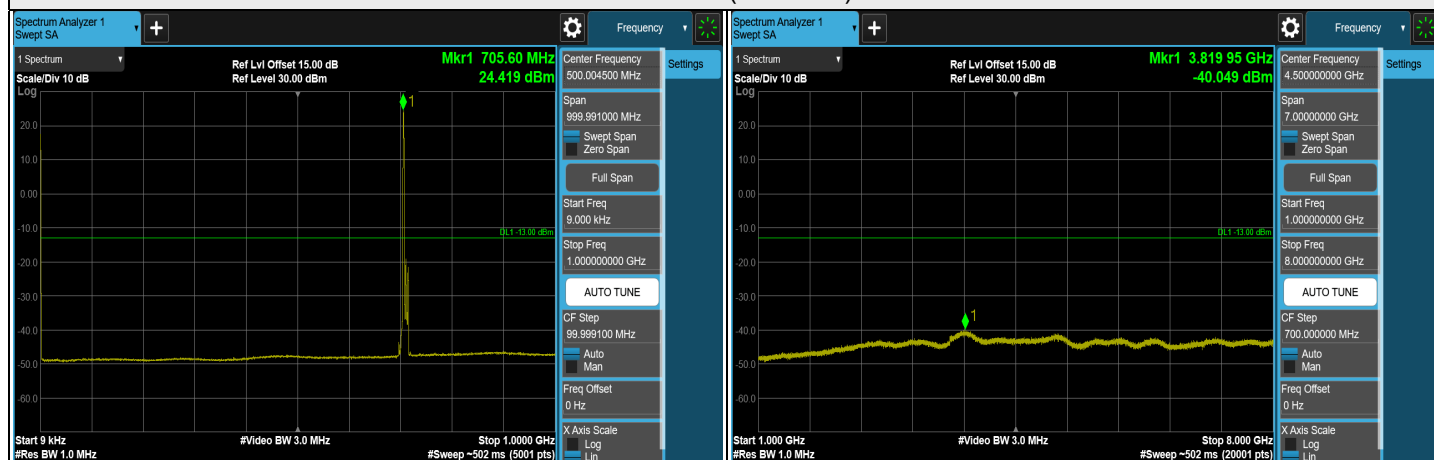




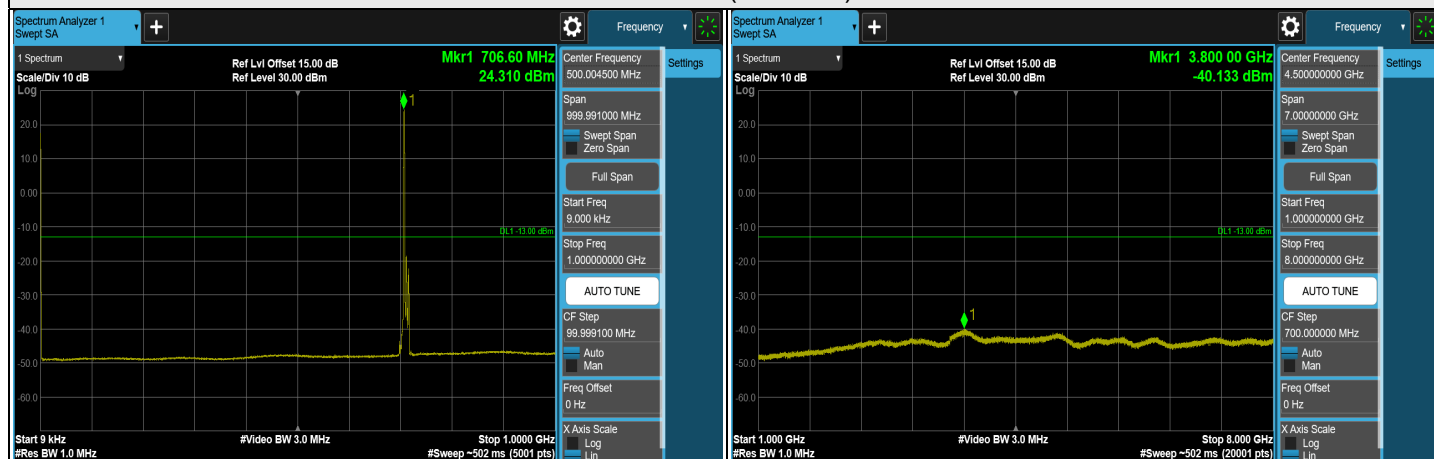
LTE Band 17, Channel Bandwidth: 10 MHz



CH 23780 (709 MHz)



CH 23790 (710 MHz)

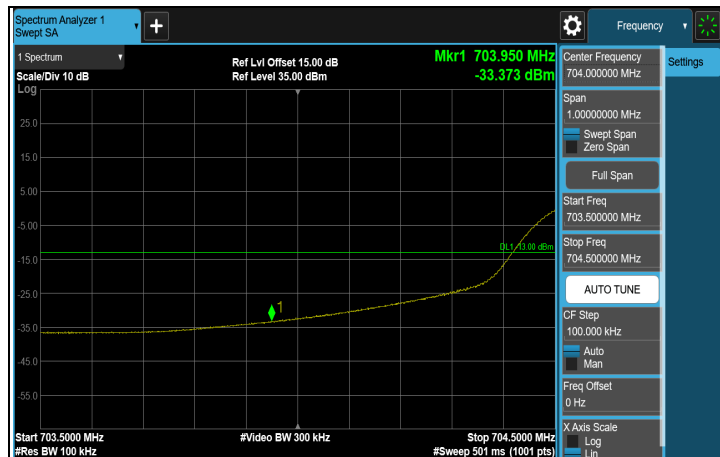


CH 23800 (711 MHz)

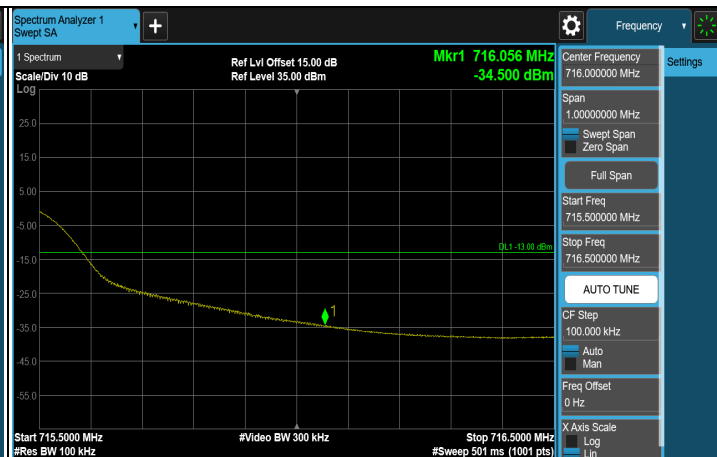
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



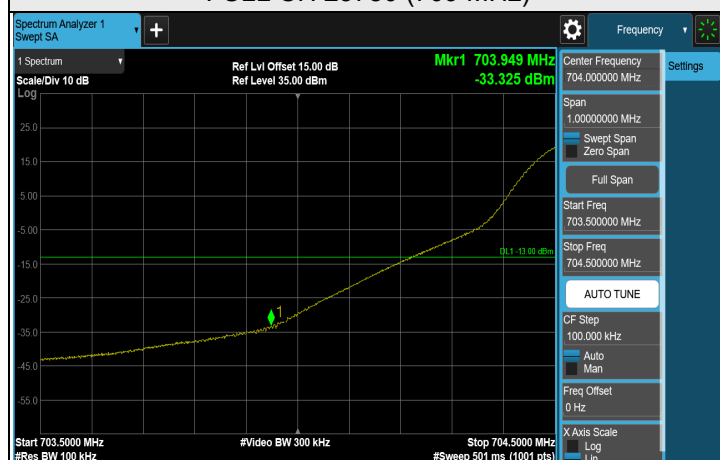
LTE Band 17, Channel Bandwidth: 10 MHz



FULL CH 23780 (709 MHz)



FULL CH 23800 (711 MHz)



1RB CH 23780 (709 MHz)



1RB CH 23800 (711 MHz)



7.5.6 LTE Band 66

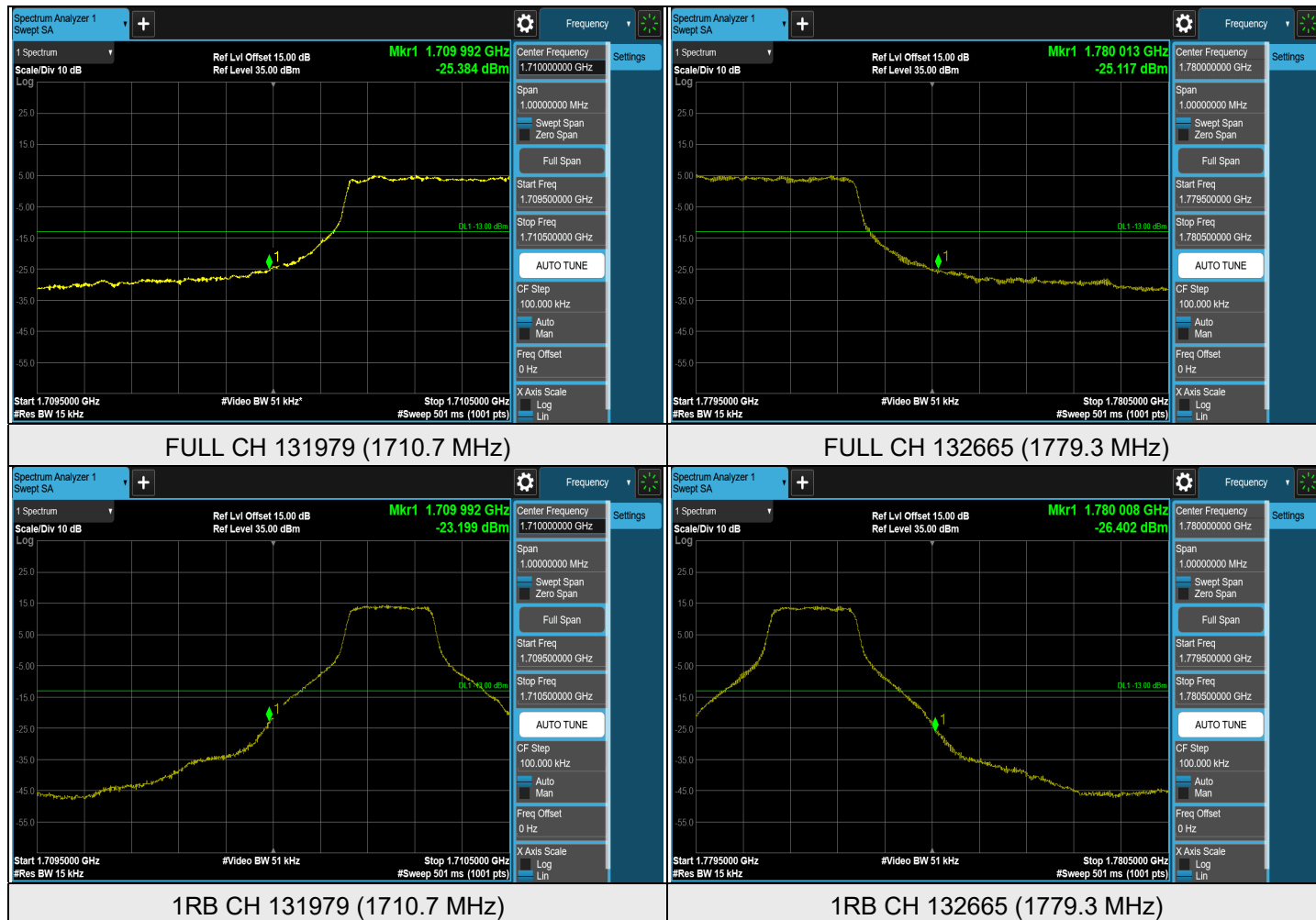
LTE Band 66, Channel Bandwidth: 1.4 MHz



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



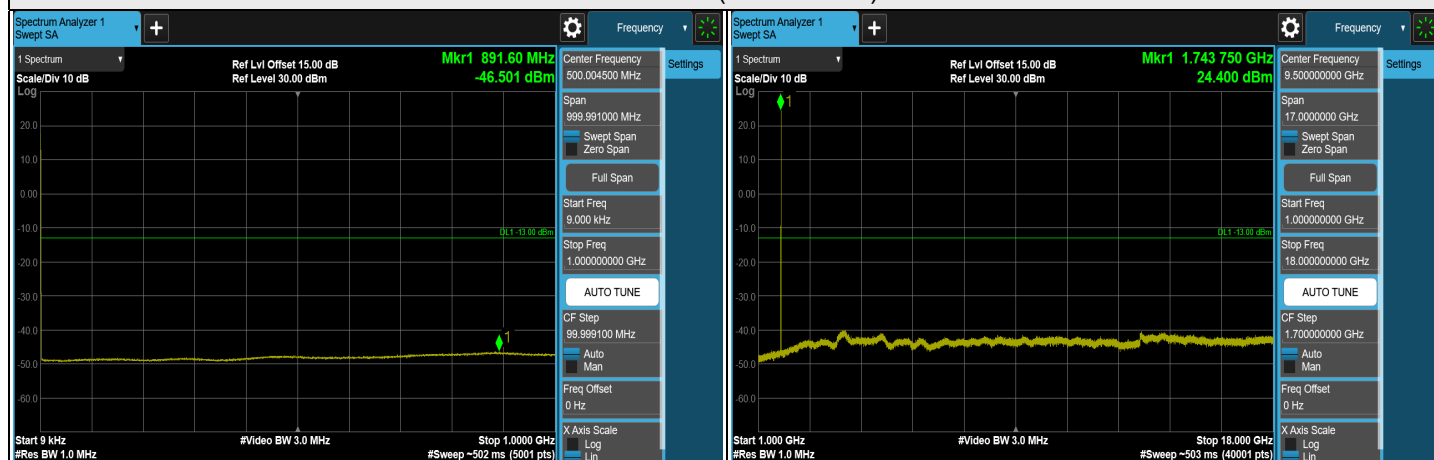
LTE Band 66, Channel Bandwidth: 1.4 MHz



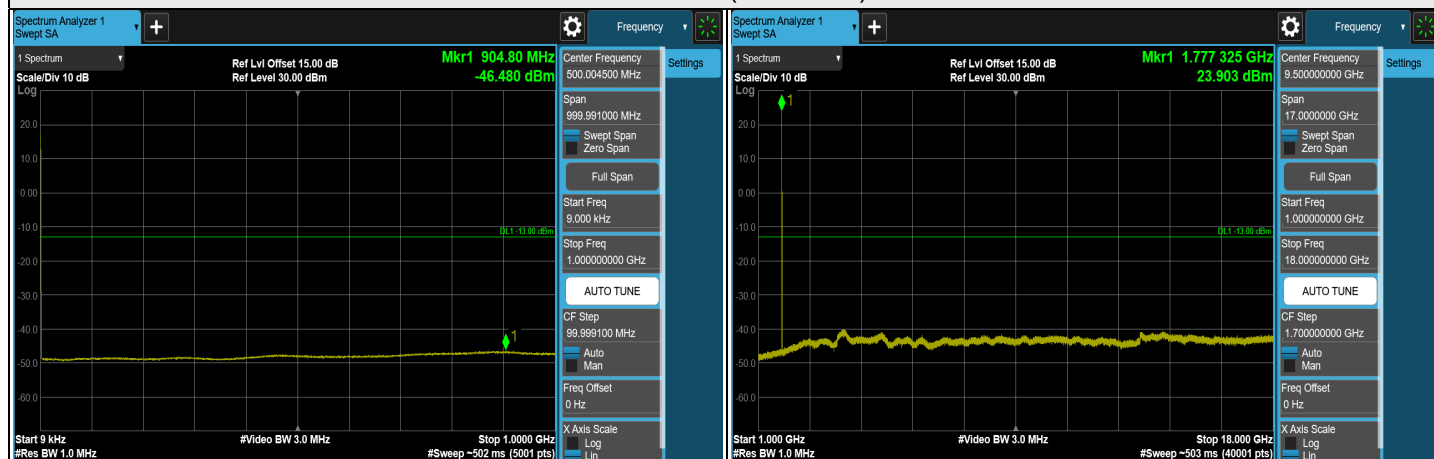
LTE Band 66, Channel Bandwidth: 3 MHz



CH 131987 (1711.5 MHz)



CH 132322 (1745 MHz)

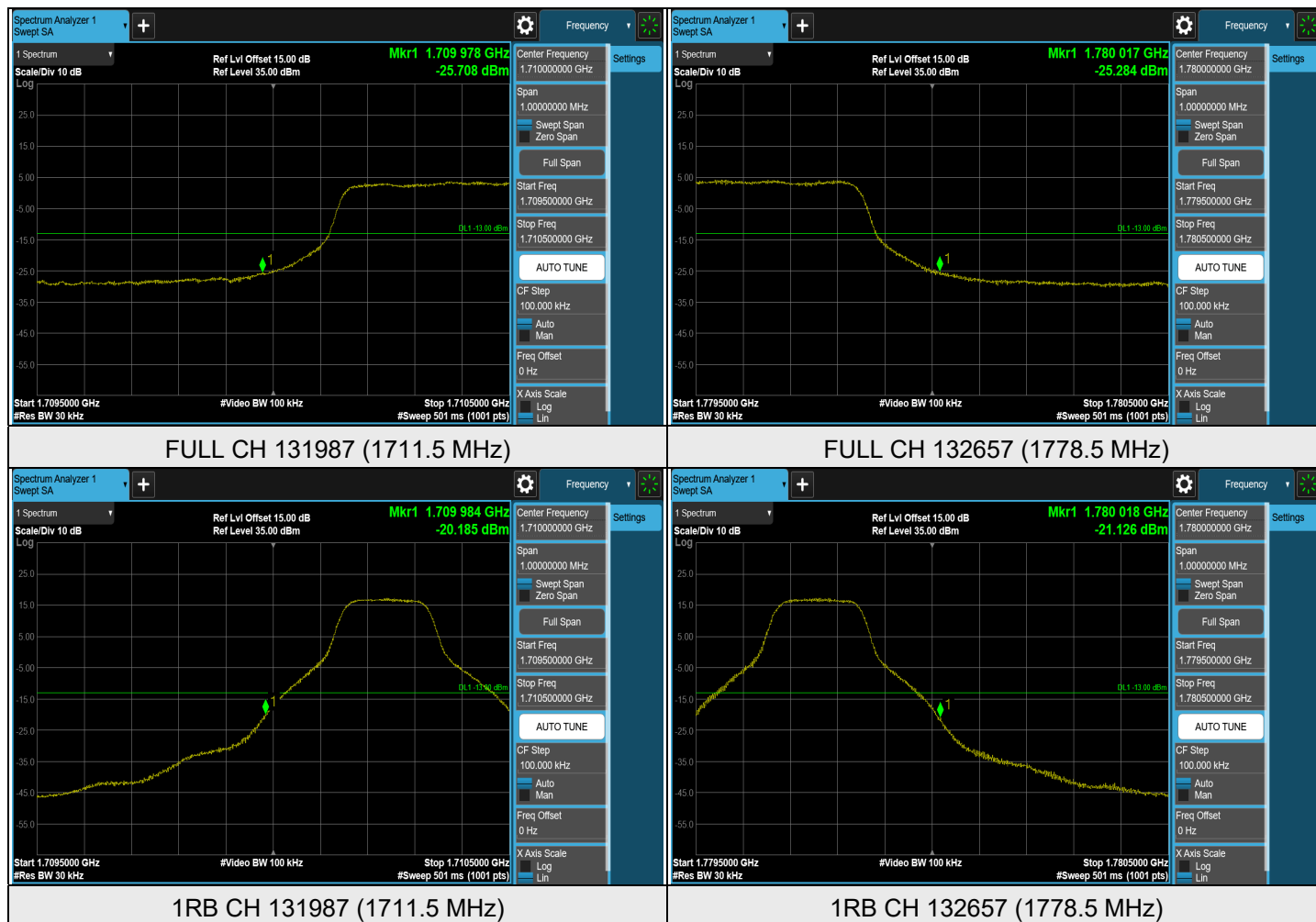


CH 132657 (1778.5 MHz)

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

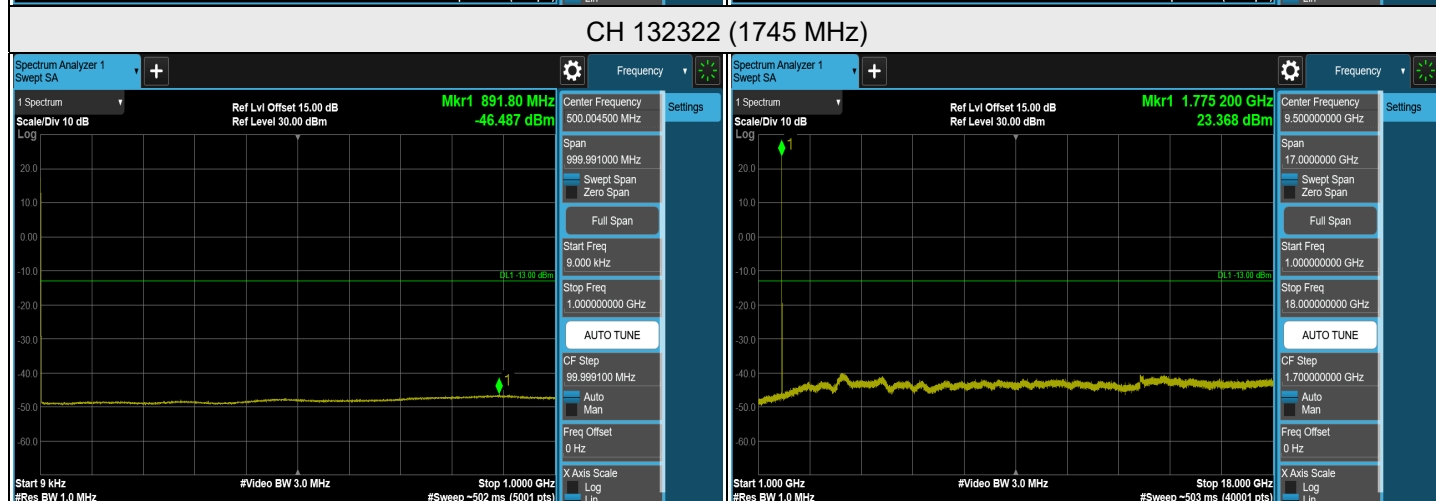
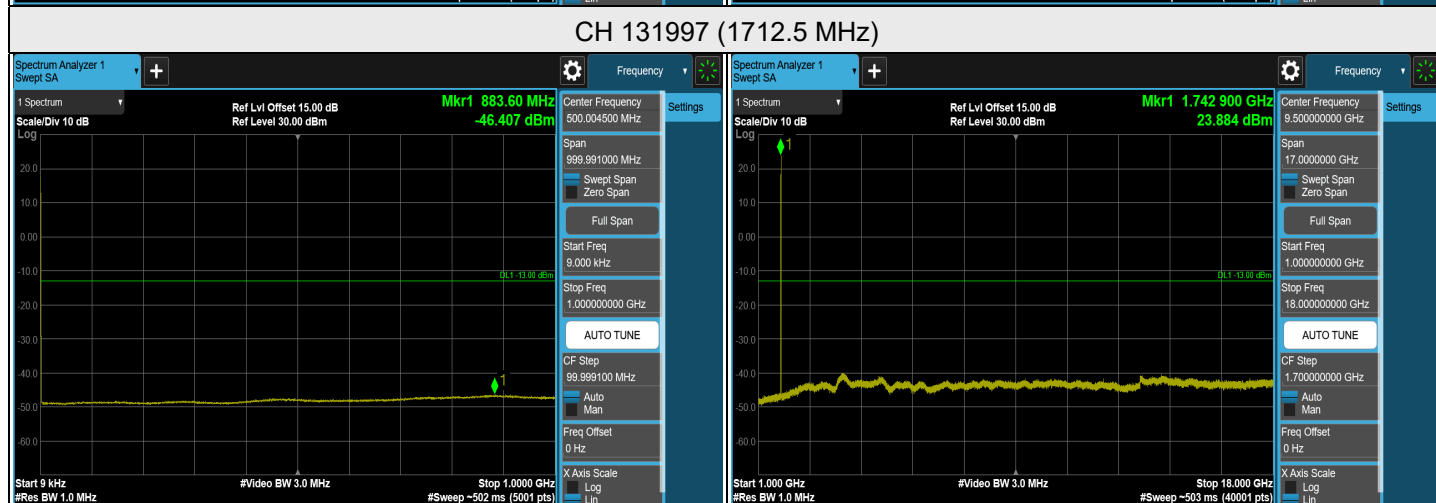
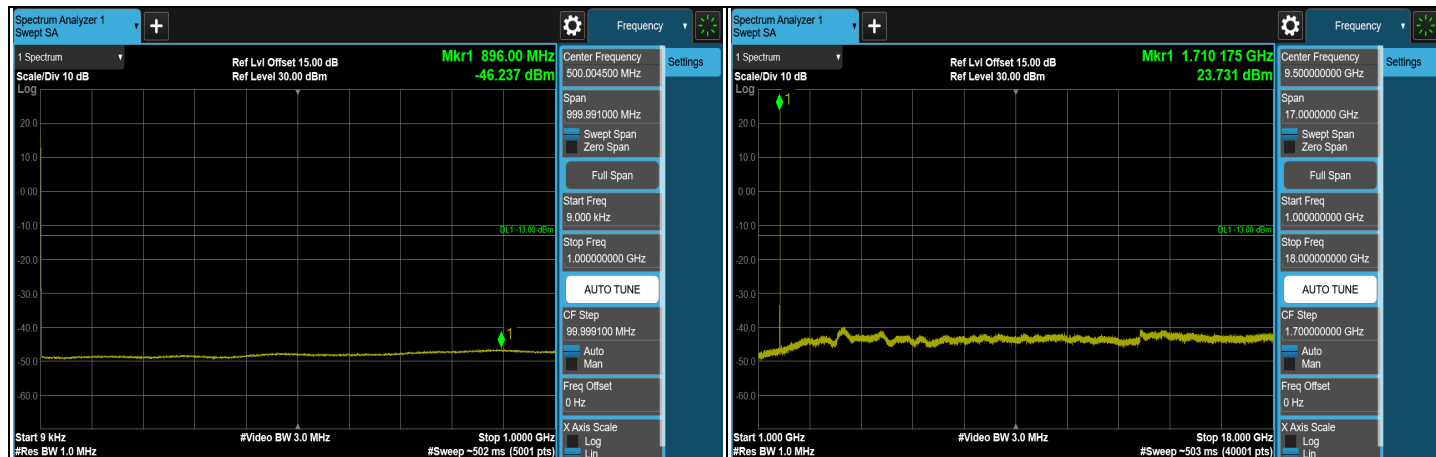


LTE Band 66, Channel Bandwidth: 3 MHz





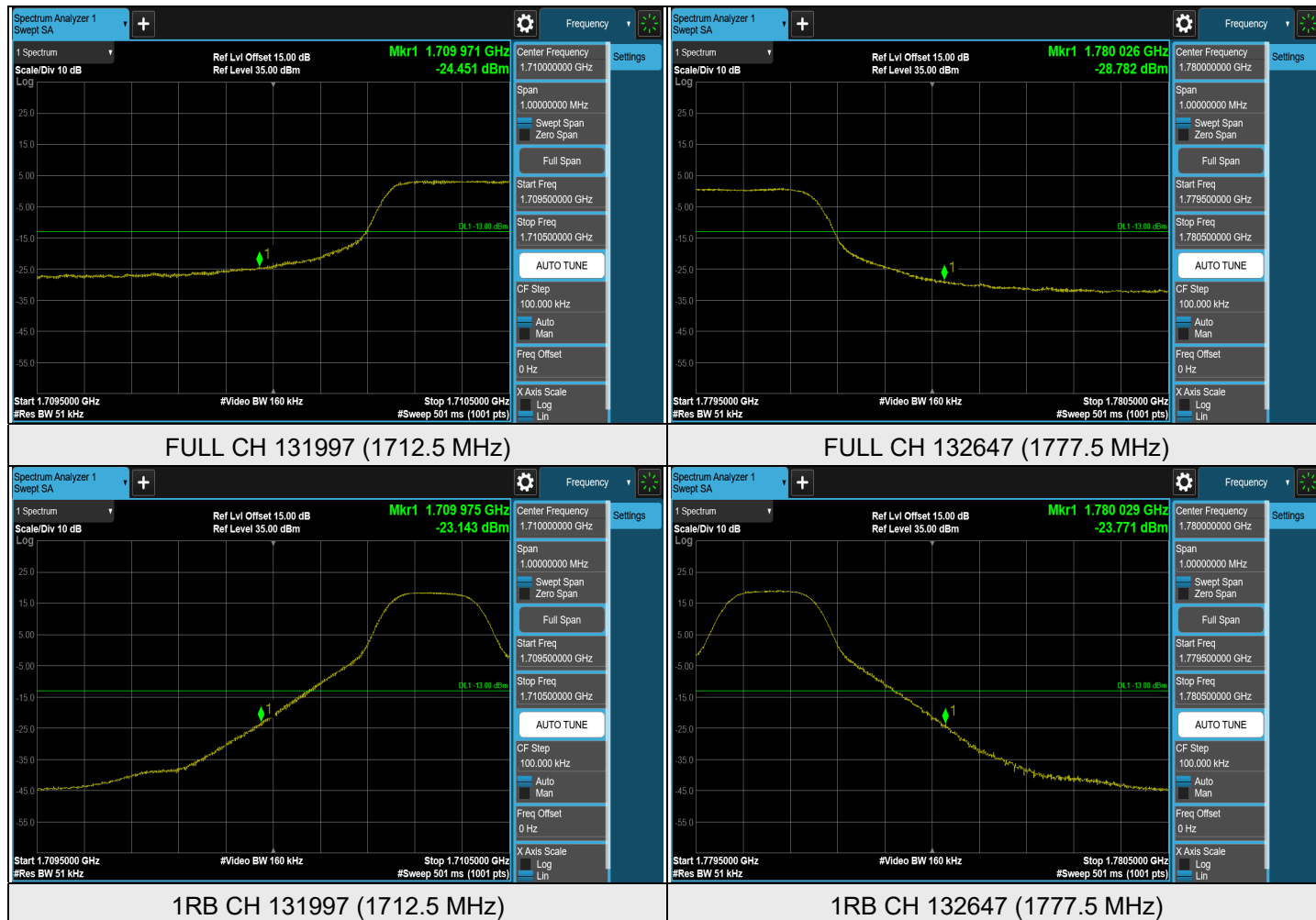
LTE Band 66, Channel Bandwidth: 5 MHz



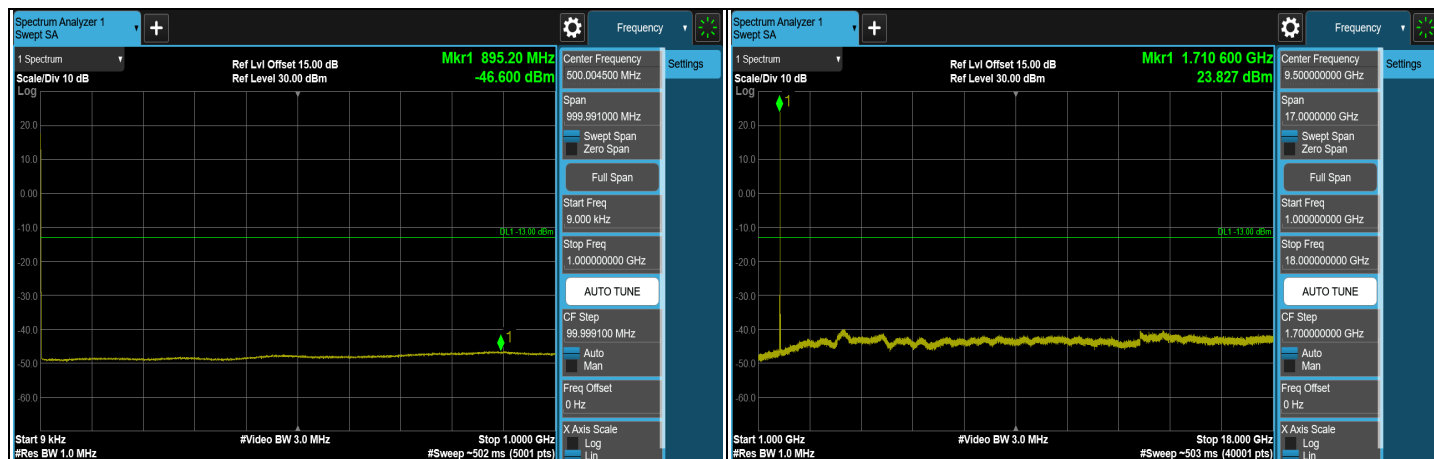
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



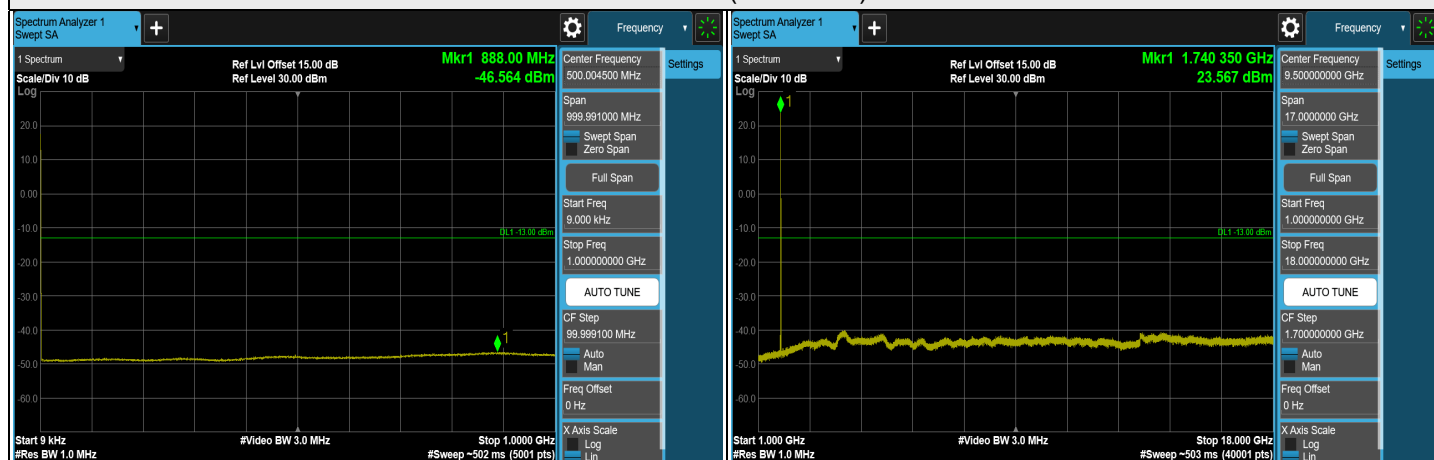
LTE Band 66, Channel Bandwidth: 5 MHz



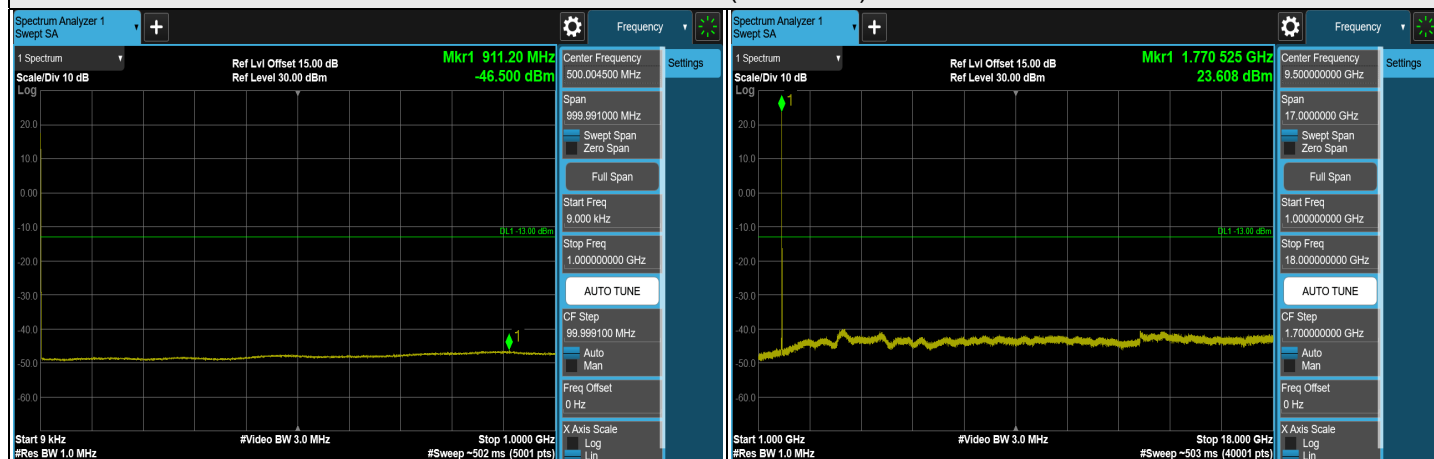
LTE Band 66, Channel Bandwidth: 10 MHz



CH 132022 (1715 MHz)



CH 132322 (1745 MHz)

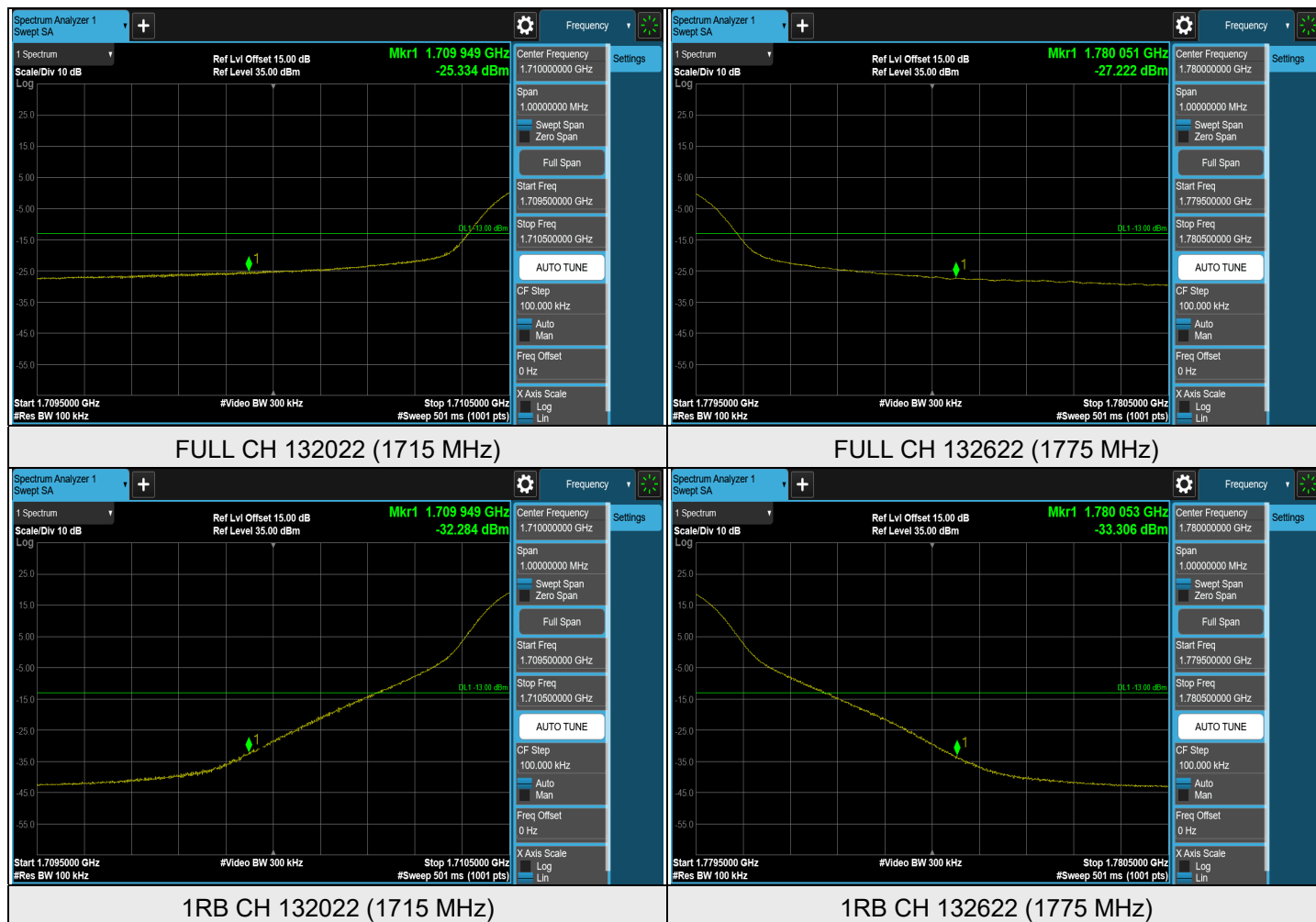


CH 132622 (1775 MHz)

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

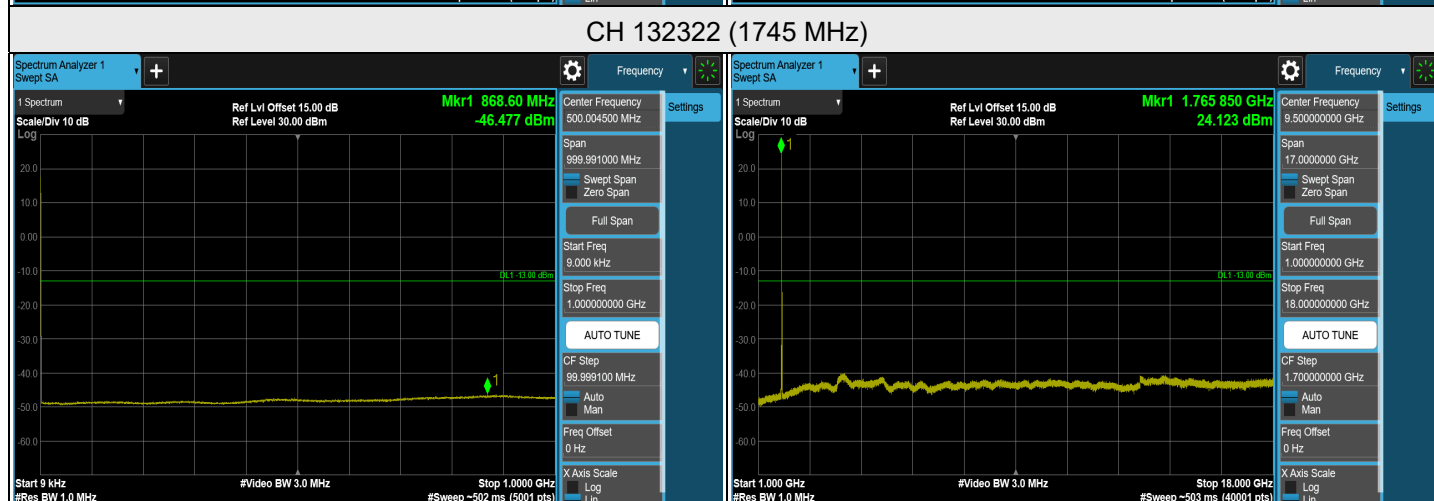
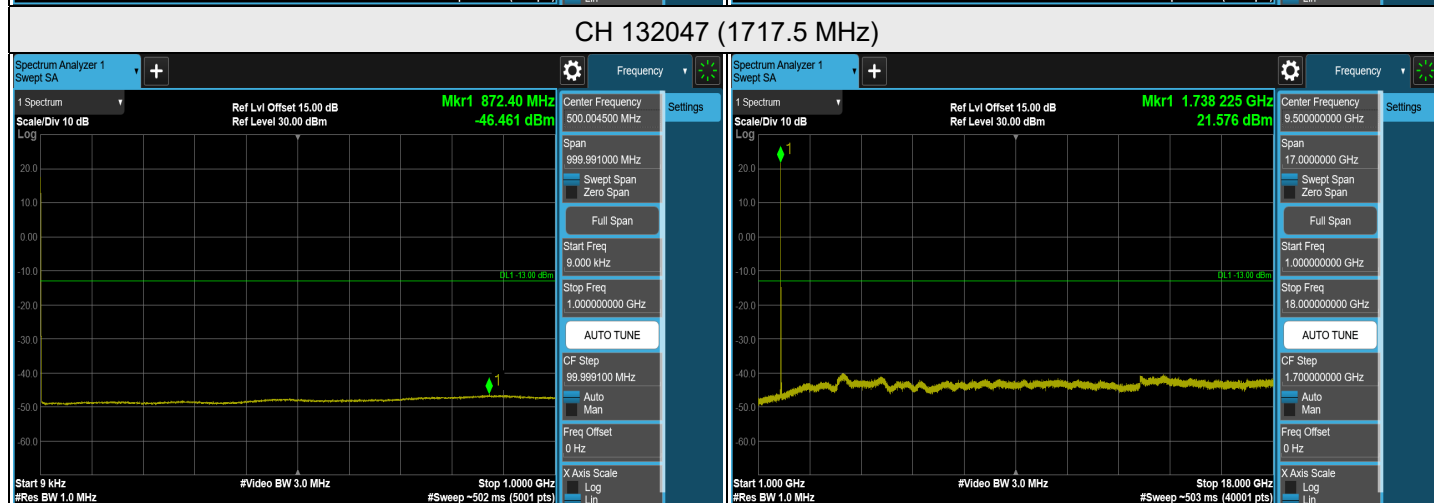
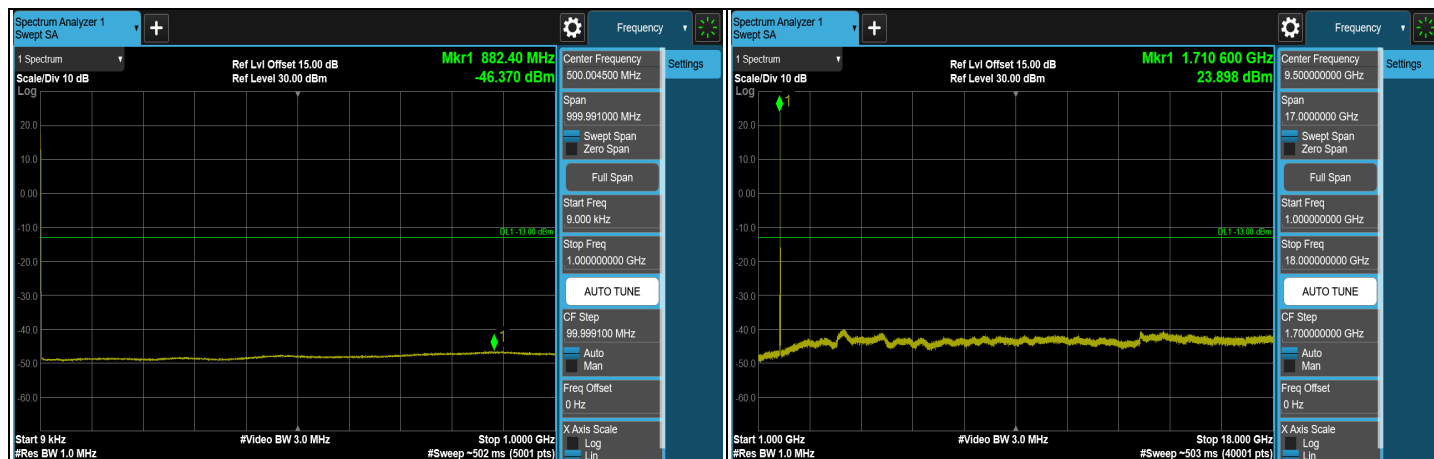


LTE Band 66, Channel Bandwidth: 10 MHz





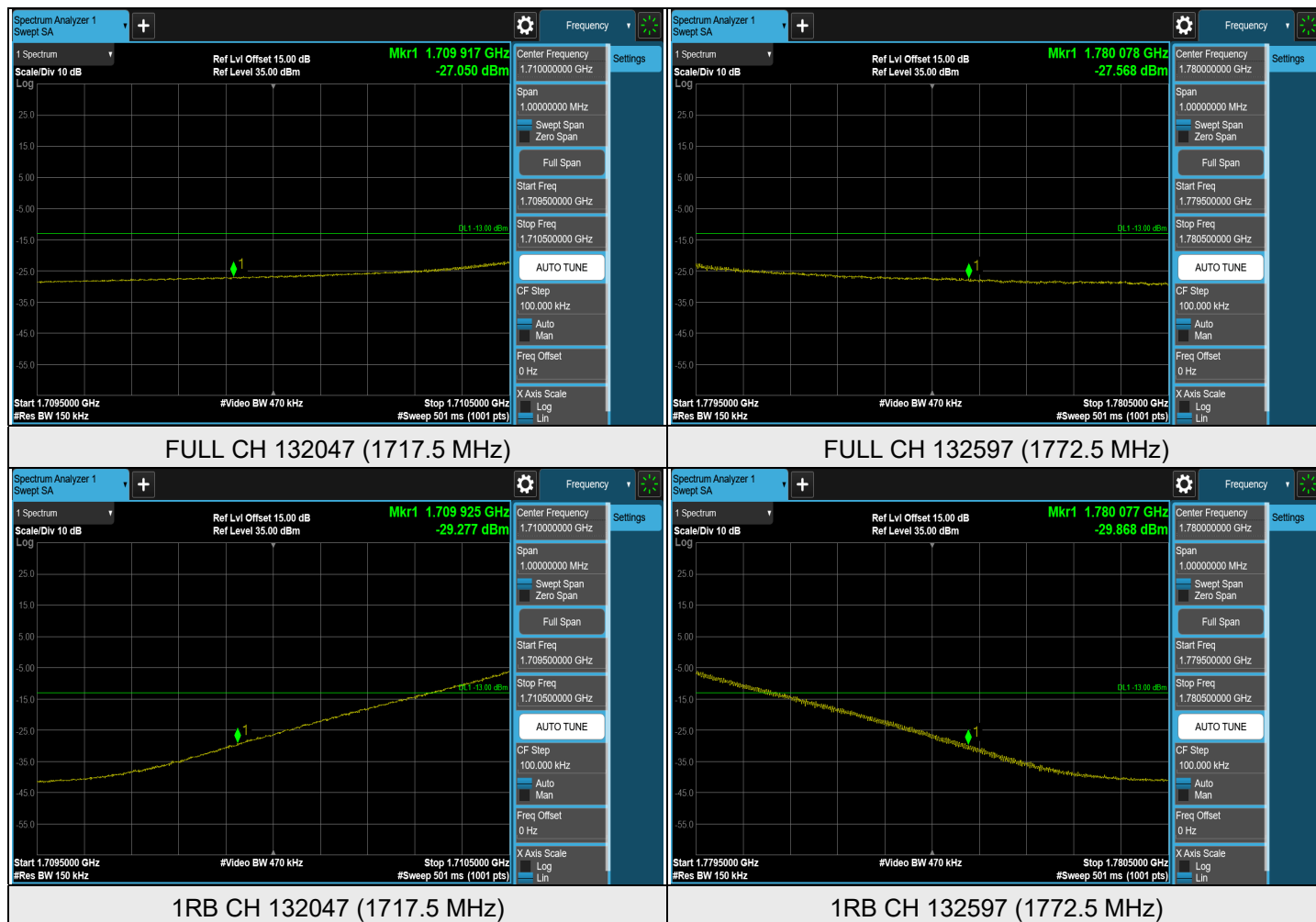
LTE Band 66, Channel Bandwidth: 15 MHz



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

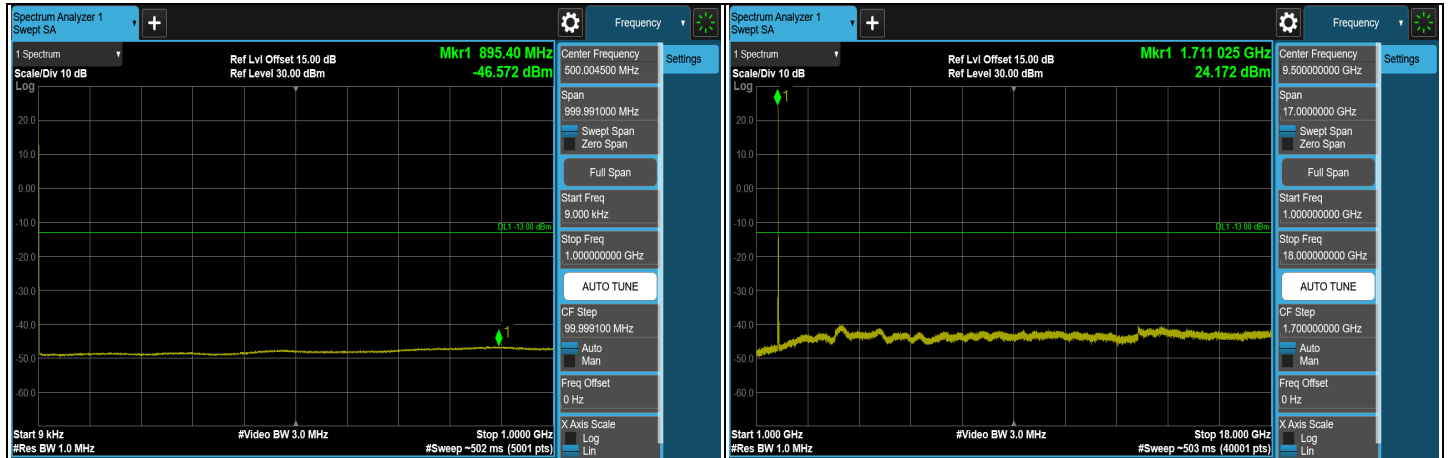


LTE Band 66, Channel Bandwidth: 15 MHz

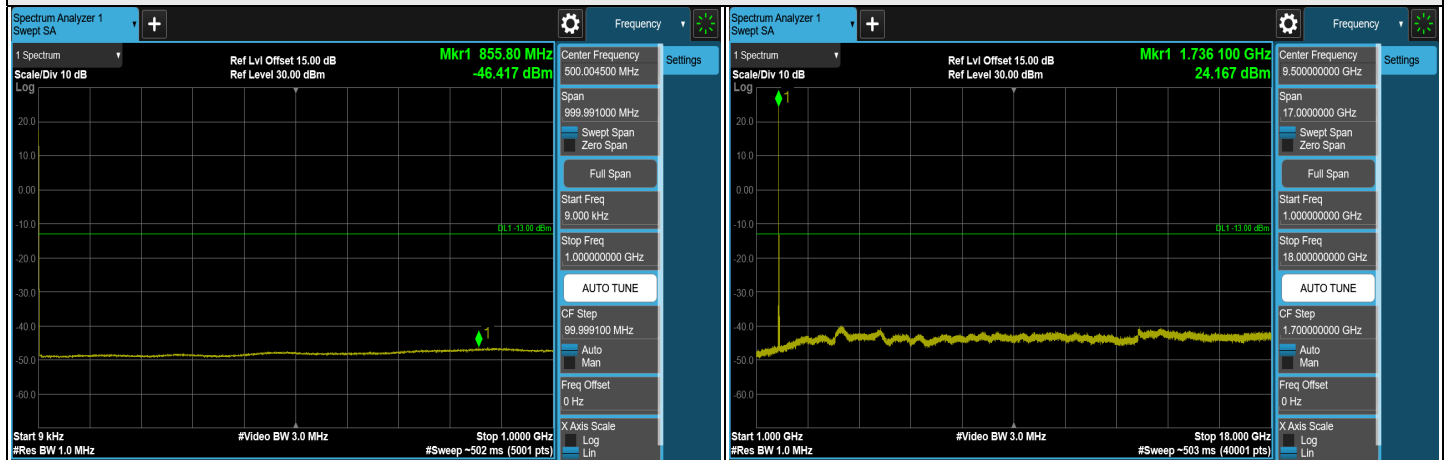




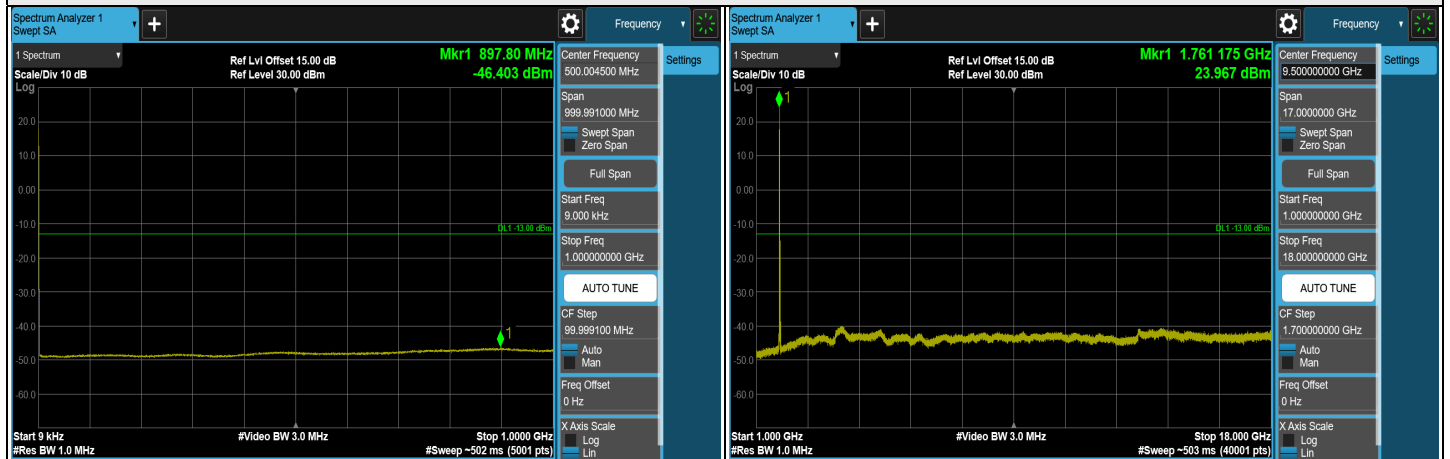
LTE Band 66, Channel Bandwidth: 20 MHz



CH 132072 (1720 MHz)



CH 132322 (1745 MHz)

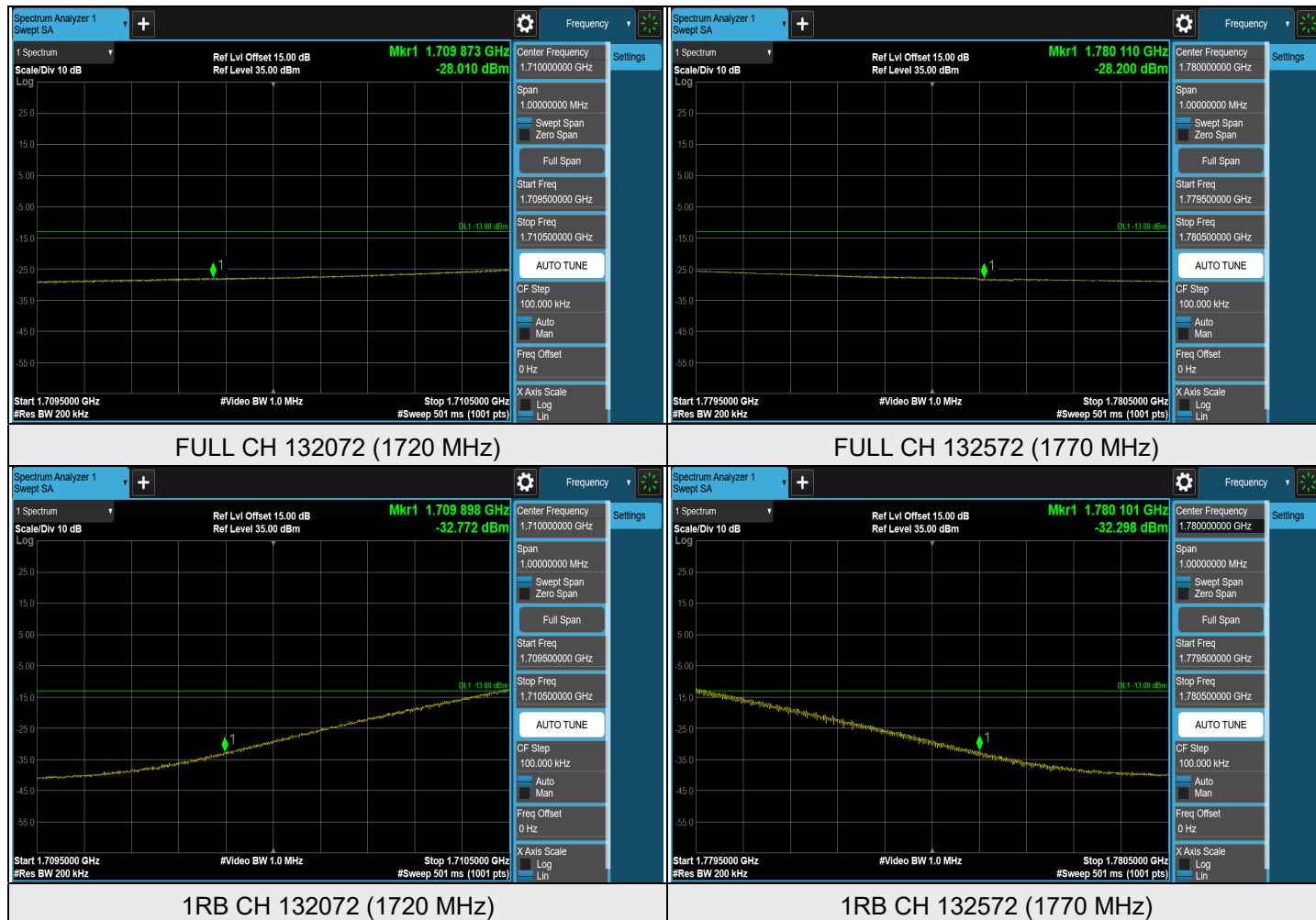


CH 132572 (1770 MHz)

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



LTE Band 66, Channel Bandwidth: 20 MHz



7.6 Radiated Spurious Emissions below 1GHz

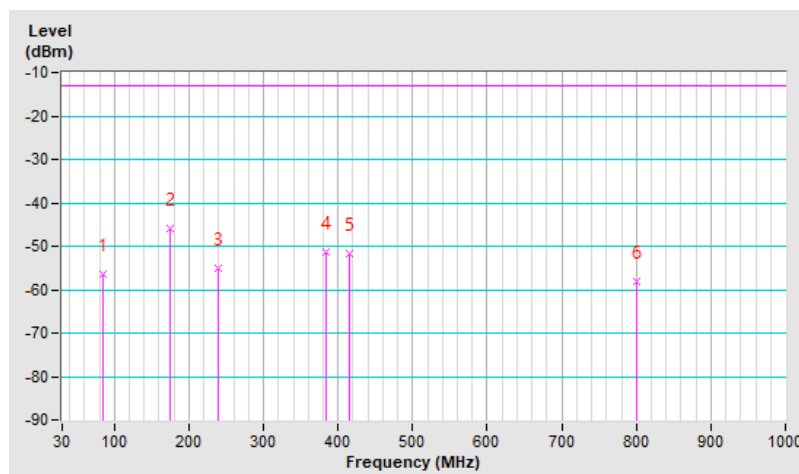
7.6.1 LTE Band 2

RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 18900 : 1880 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	85.10	-56.37	-13.00	-43.37	1.15 H	111	62.95	-119.32
2	175.54	-45.86	-13.00	-32.86	1.05 H	348	68.02	-113.88
3	240.11	-55.06	-13.00	-42.06	1.95 H	115	59.33	-114.39
4	384.44	-51.28	-13.00	-38.28	1.56 H	300	58.85	-110.13
5	414.40	-51.80	-13.00	-38.80	1.55 H	195	57.89	-109.69
6	801.14	-58.26	-13.00	-45.26	1.59 H	3	44.13	-102.39

Remarks:

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

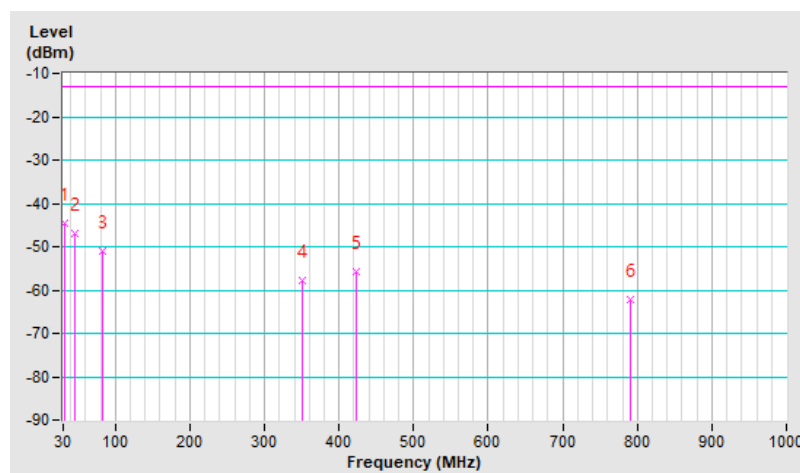


RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 18900 : 1880 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	32.15	-44.42	-13.00	-31.42	1.49 V	117	70.34	-114.76
2	46.34	-47.06	-13.00	-34.06	1.45 V	280	66.32	-113.38
3	83.20	-51.06	-13.00	-38.06	1.45 V	274	67.99	-119.05
4	350.65	-57.89	-13.00	-44.89	1.15 V	244	53.39	-111.28
5	422.21	-55.60	-13.00	-42.60	1.09 V	324	53.78	-109.38
6	790.00	-62.09	-13.00	-49.09	1.55 V	205	40.61	-102.70

Remarks:

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



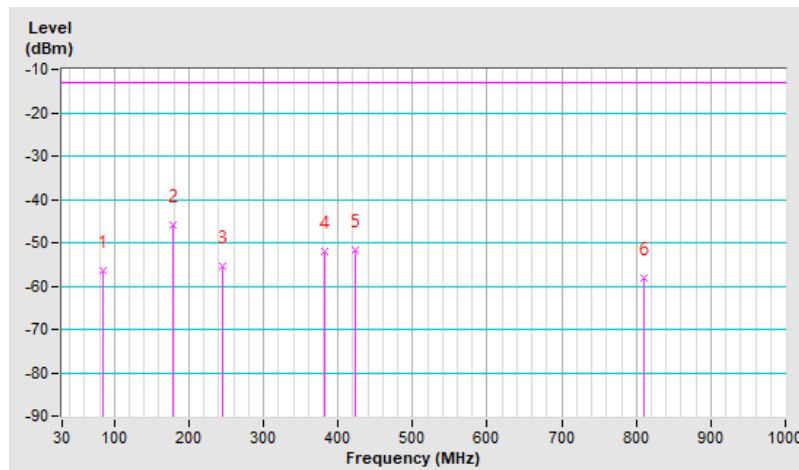
7.6.2 LTE Band 4

RF Mode	LTE Band 4 Channel Bandwidth: 20MHz	Channel	CH 20175 : 1732.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	85.36	-56.44	-13.00	-43.44	1.15 H	241	62.91	-119.35
2	178.84	-45.85	-13.00	-32.85	1.05 H	27	68.44	-114.29
3	245.51	-55.29	-13.00	-42.29	1.15 H	264	58.90	-114.19
4	382.54	-51.99	-13.00	-38.99	1.57 H	299	58.19	-110.18
5	422.25	-51.68	-13.00	-38.68	1.14 H	108	57.69	-109.37
6	810.00	-58.29	-13.00	-45.29	1.15 H	344	44.06	-102.35

Remarks:

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

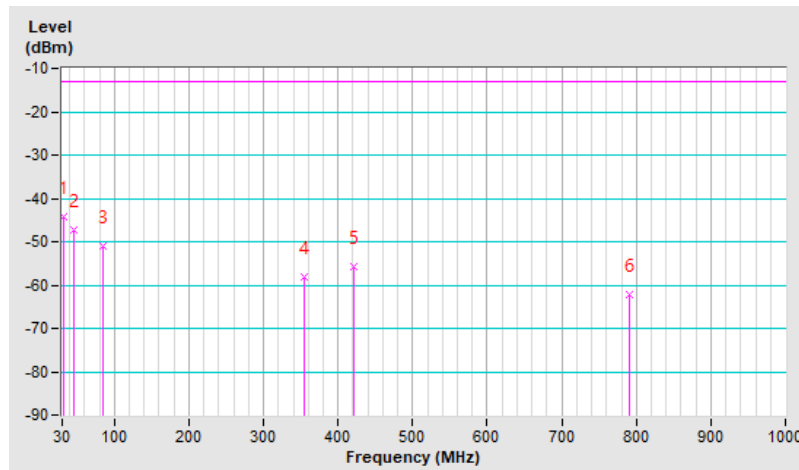


RF Mode	LTE Band 4 Channel Bandwidth: 20MHz	Channel	CH 20175 : 1732.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	32.36	-44.35	-13.00	-31.35	1.54 V	110	70.42	-114.77
2	46.36	-47.32	-13.00	-34.32	1.01 V	157	66.07	-113.39
3	84.44	-51.02	-13.00	-38.02	1.15 V	154	68.22	-119.24
4	355.56	-58.03	-13.00	-45.03	1.35 V	241	53.09	-111.12
5	421.89	-55.89	-13.00	-42.89	1.39 V	109	53.50	-109.39
6	791.14	-62.30	-13.00	-49.30	1.15 V	256	40.37	-102.67

Remarks:

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



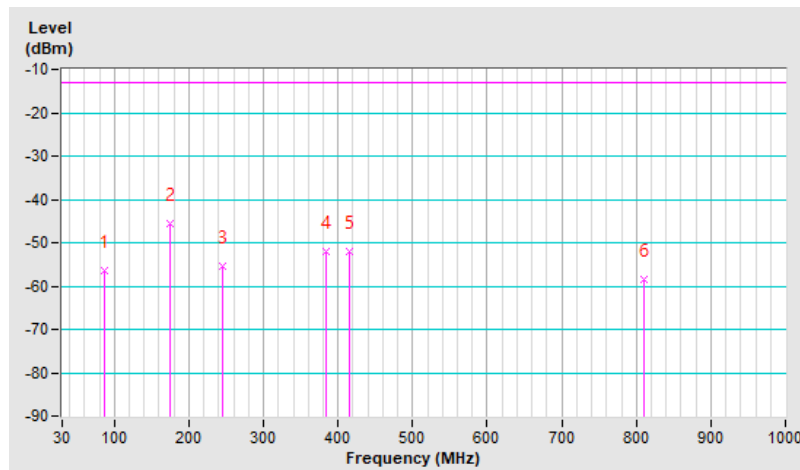
7.6.3 LTE Band 12

RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	Channel	CH 23095 : 707.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	86.93	-56.40	-13.00	-43.40	1.66 H	121	65.20	-121.60
2	175.54	-45.58	-13.00	-32.58	1.16 H	290	70.45	-116.03
3	245.54	-55.26	-13.00	-42.26	1.29 H	38	61.08	-116.34
4	384.48	-52.03	-13.00	-39.03	1.19 H	64	60.25	-112.28
5	415.64	-52.01	-13.00	-39.01	1.57 H	111	59.79	-111.80
6	810.57	-58.49	-13.00	-45.49	1.15 H	109	46.00	-104.49

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 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.

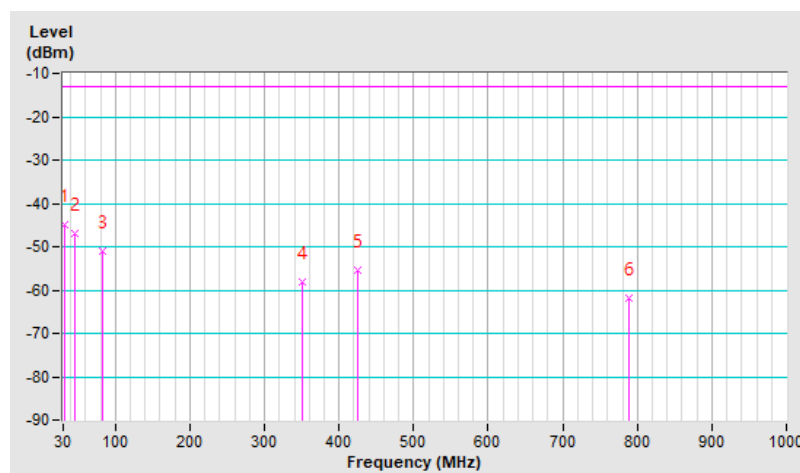


RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	Channel	CH 23095 : 707.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	32.36	-45.02	-13.00	-32.02	1.11 V	184	71.90	-116.92
2	46.58	-46.98	-13.00	-33.98	1.15 V	277	68.59	-115.57
3	82.54	-51.16	-13.00	-38.16	1.03 V	274	69.93	-121.09
4	351.00	-58.20	-13.00	-45.20	1.38 V	199	55.22	-113.42
5	425.54	-55.28	-13.00	-42.28	1.98 V	139	56.12	-111.40
6	787.87	-61.89	-13.00	-48.89	1.56 V	199	42.87	-104.76

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 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.



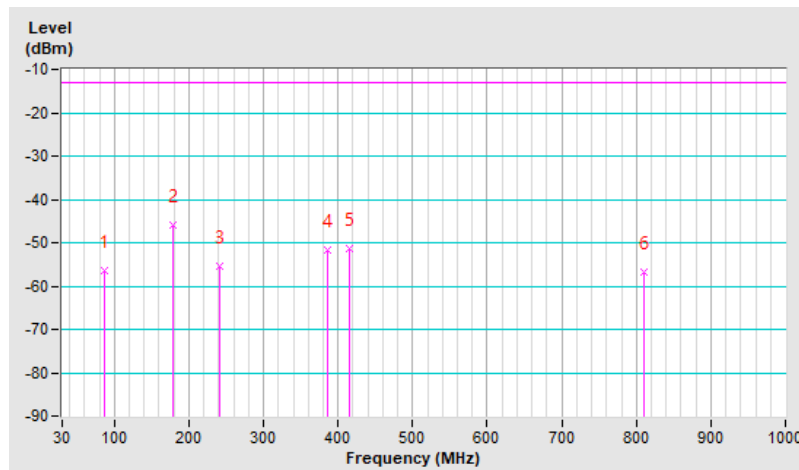
7.6.4 LTE Band 13

RF Mode	LTE Band 13 Channel Bandwidth: 10MHz	Channel	CH 23230 : 782 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	86.64	-56.44	-13.00	-43.44	1.59 H	119	-30.60	-25.84
2	178.84	-46.03	-13.00	-33.03	1.16 H	357	-24.85	-21.18
3	241.11	-55.38	-13.00	-42.38	1.59 H	355	-34.14	-21.24
4	386.64	-51.75	-13.00	-38.75	1.59 H	206	-34.75	-17.00
5	415.54	-51.26	-13.00	-38.26	1.15 H	260	-34.71	-16.55
6	810.20	-56.67	-13.00	-43.67	1.57 H	334	-47.43	-9.24

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 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.

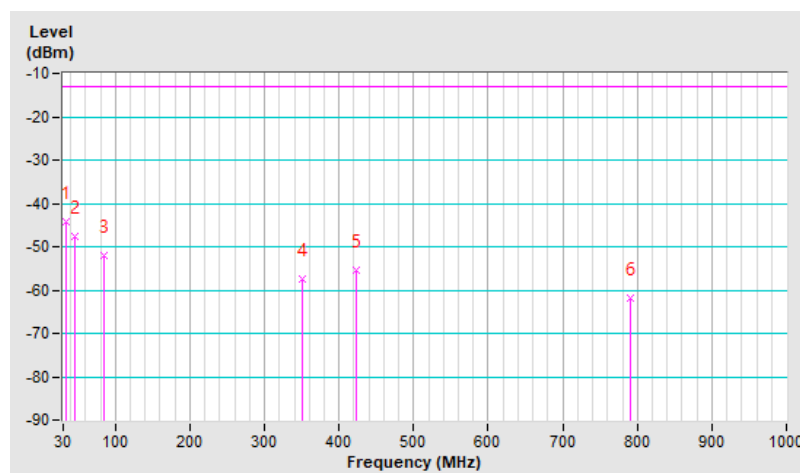


RF Mode	LTE Band 13 Channel Bandwidth: 10MHz	Channel	CH 23230 : 782 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	33.36	-44.32	-13.00	-31.32	1.05 V	220	-23.16	-21.16
2	46.15	-47.49	-13.00	-34.49	1.15 V	241	-27.67	-19.82
3	84.49	-52.01	-13.00	-39.01	1.56 V	263	-26.37	-25.64
4	351.15	-57.49	-13.00	-44.49	1.15 V	164	-39.33	-18.16
5	422.25	-55.45	-13.00	-42.45	1.00 V	209	-39.19	-16.26
6	790.64	-61.93	-13.00	-48.93	1.56 V	39	-52.35	-9.58

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 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.



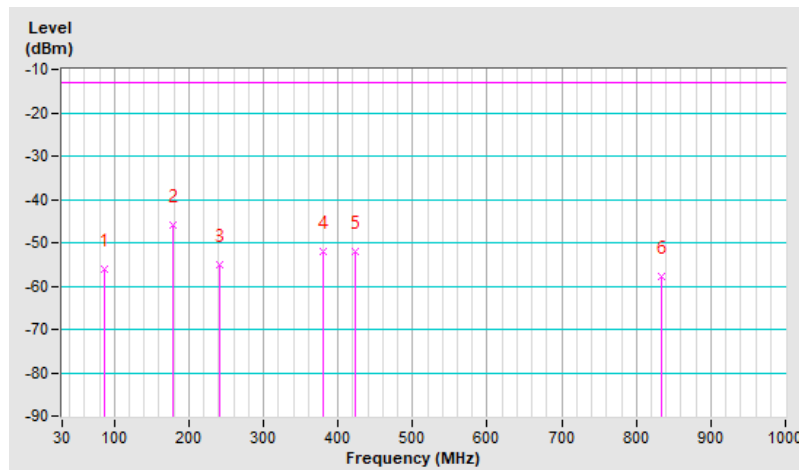
7.6.5 LTE Band 17

RF Mode	LTE Band 17 Channel Bandwidth: 10MHz	Channel	CH 23800 : 711 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	86.37	-56.26	-13.00	-43.26	1.57 H	121	65.33	-121.59
2	177.91	-45.83	-13.00	-32.83	1.00 H	157	70.52	-116.35
3	241.17	-54.96	-13.00	-41.96	1.59 H	360	61.54	-116.50
4	380.69	-51.88	-13.00	-38.88	1.15 H	247	60.48	-112.36
5	422.69	-51.99	-13.00	-38.99	1.67 H	100	59.51	-111.50
6	834.48	-57.89	-13.00	-44.89	1.16 H	104	46.20	-104.09

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 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.

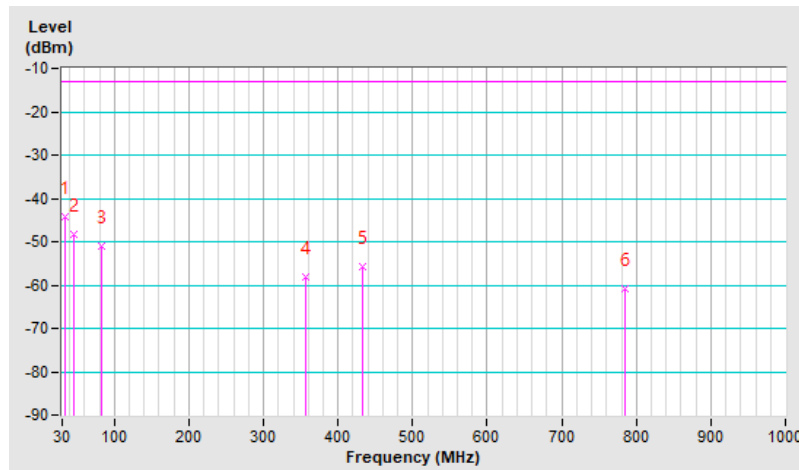


RF Mode	LTE Band 17 Channel Bandwidth: 10MHz	Channel	CH 23800 : 711 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	33.65	-44.15	-13.00	-31.15	1.05 V	100	72.57	-116.72
2	46.29	-48.16	-13.00	-35.16	1.15 V	247	67.37	-115.53
3	83.65	-50.89	-13.00	-37.89	1.55 V	209	70.38	-121.27
4	356.64	-58.10	-13.00	-45.10	1.00 V	247	55.14	-113.24
5	433.32	-55.83	-13.00	-42.83	1.56 V	111	55.28	-111.11
6	784.48	-60.98	-13.00	-47.98	1.56 V	360	43.67	-104.65

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 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.



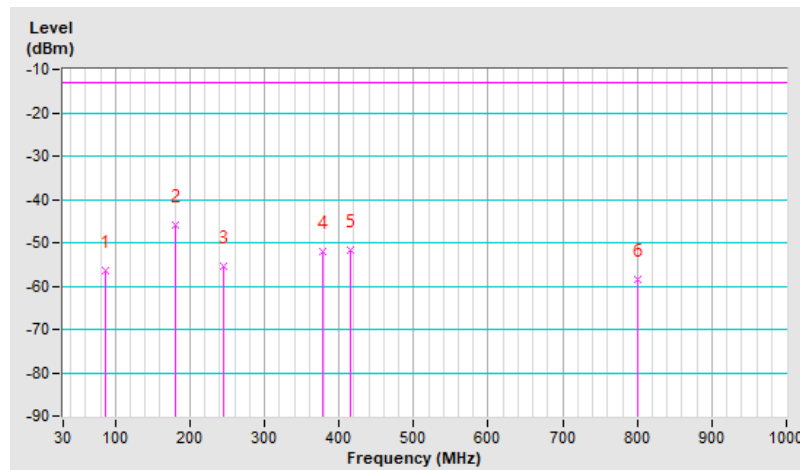
7.6.6 LTE Band 66

RF Mode	LTE Band 66 Channel Bandwidth: 20MHz	Channel	CH 132322 : 1745 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	86.69	-56.46	-13.00	-43.46	1.15 H	127	62.98	-119.44
2	180.82	-45.81	-13.00	-32.81	1.44 H	174	68.78	-114.59
3	245.51	-55.36	-13.00	-42.36	1.53 H	229	58.83	-114.19
4	378.84	-51.93	-13.00	-38.93	1.16 H	359	58.33	-110.26
5	414.44	-51.83	-13.00	-38.83	1.15 H	264	57.86	-109.69
6	800.00	-58.46	-13.00	-45.46	1.15 H	274	43.95	-102.41

Remarks:

- EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
- Margin value = EIRP – Limit value
- The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 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.

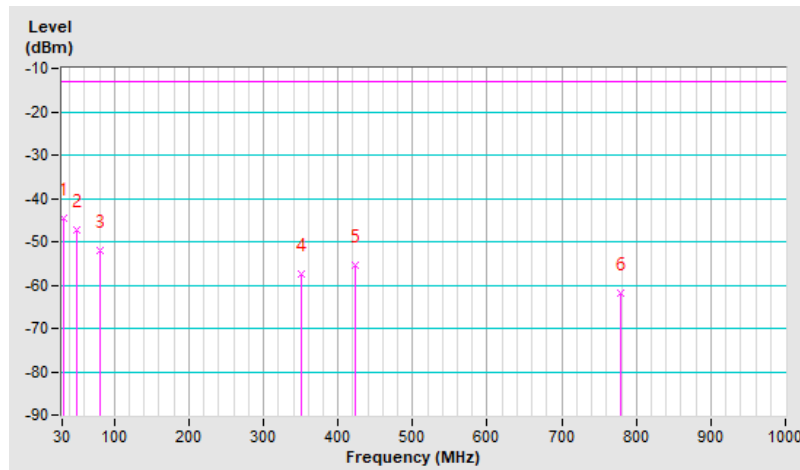


RF Mode	LTE Band 66 Channel Bandwidth: 20MHz	Channel	CH 132322 : 1745 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	32.29	-44.56	-13.00	-31.56	1.15 V	247	70.21	-114.77
2	48.87	-47.15	-13.00	-34.15	1.15 V	270	66.22	-113.37
3	81.14	-52.06	-13.00	-39.06	1.56 V	118	66.71	-118.77
4	351.11	-57.47	-13.00	-44.47	1.90 V	156	53.80	-111.27
5	422.39	-55.41	-13.00	-42.41	1.45 V	109	53.96	-109.37
6	778.81	-61.86	-13.00	-48.86	1.15 V	220	40.73	-102.59

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
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.



7.7 Radiated Spurious Emissions above 1GHz

7.7.1 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.17	-13.00	-39.17	1.05 H	200	33.24	-85.41

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	-51.89	-13.00	-38.89	1.55 V	301	33.52	-85.41

Remarks:

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



RF Mode	LTE Band 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-51.15	-13.00	-38.15	1.36 H	160	34.03	-85.18
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-51.60	-13.00	-38.60	1.45 V	335	33.58	-85.18

Remarks:

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



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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-51.53	-13.00	-38.53	1.66 H	85	33.42	-84.95
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	3818.60	-50.34	-13.00	-37.34	1.59 V	195	34.61	-84.95

Remarks:

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



RF Mode	LTE Band 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-50.76	-13.00	-37.76	1.15 H	339	34.63	-85.39
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	-51.35	-13.00	-38.35	1.66 V	348	34.04	-85.39

Remarks:

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



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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.40	-13.00	-39.40	1.18 H	185	32.78	-85.18
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-51.54	-13.00	-38.54	1.18 V	32	33.64	-85.18

Remarks:

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



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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-51.17	-13.00	-38.17	1.48 H	244	33.78	-84.95
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	3815.00	-50.77	-13.00	-37.77	1.54 V	14	34.18	-84.95

Remarks:

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

RF Mode	LTE Band 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-51.21	-13.00	-38.21	1.59 H	99	34.12	-85.33
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	-51.08	-13.00	-38.08	1.45 V	133	34.25	-85.33

Remarks:

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



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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-51.78	-13.00	-38.78	1.02 H	117	33.40	-85.18
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-50.11	-13.00	-37.11	1.16 V	317	35.07	-85.18

Remarks:

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



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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-51.50	-13.00	-38.50	1.67 H	334	33.51	-85.01
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	-52.01	-13.00	-39.01	1.01 V	185	33.00	-85.01

Remarks:

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

7.7.2 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.40	-13.00	-39.40	1.66 H	306	33.66	-86.06
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	3421.40	-52.70	-13.00	-39.70	1.56 V	6	33.36	-86.06

Remarks:

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



RF Mode	LTE Band 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.39	-13.00	-39.39	1.45 H	174	33.60	-85.99
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	-51.93	-13.00	-38.93	1.74 V	3	34.06	-85.99

Remarks:

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



RF Mode	LTE Band 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.38	-13.00	-39.38	1.14 H	187	33.40	-85.78
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	-52.53	-13.00	-39.53	1.56 V	1	33.25	-85.78

Remarks:

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



RF Mode	LTE Band 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.38	-13.00	-39.38	1.63 H	100	33.69	-86.07
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	3425.00	-51.85	-13.00	-38.85	1.77 V	174	34.22	-86.07

Remarks:

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



RF Mode	LTE Band 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.31	-13.00	-39.31	1.67 H	334	33.68	-85.99
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	-52.25	-13.00	-39.25	1.18 V	174	33.74	-85.99

Remarks:

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



RF Mode	LTE Band 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.24	-13.00	-39.24	1.15 H	141	33.53	-85.77
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	3505.00	-52.75	-13.00	-39.75	1.82 V	28	33.02	-85.77

Remarks:

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

RF Mode	LTE Band 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-51.80	-13.00	-38.80	1.09 H	182	34.29	-86.09
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	3440.00	-51.62	-13.00	-38.62	1.17 V	45	34.47	-86.09

Remarks:

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



RF Mode	LTE Band 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.12	-13.00	-39.12	1.02 H	288	33.87	-85.99
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	-51.49	-13.00	-38.49	1.67 V	355	34.50	-85.99

Remarks:

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



RF Mode	LTE Band 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.58	-13.00	-39.58	1.66 H	196	33.25	-85.83
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	-52.48	-13.00	-39.48	1.18 V	183	33.35	-85.83

Remarks:

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

7.7.3 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-57.69	-13.00	-44.69	1.60 H	161	38.98	-96.67
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	-56.23	-13.00	-43.23	1.67 V	196	40.44	-96.67

Remarks:

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



RF Mode	LTE Band 12 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.40	-13.00	-39.40	1.64 H	145	44.35	-96.75
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	1415.00	-52.29	-13.00	-39.29	1.29 V	130	44.46	-96.75

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 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-54.83	-13.00	-41.83	1.11 H	165	42.00	-96.83
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	-53.89	-13.00	-40.89	1.36 V	233	42.94	-96.83

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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-55.17	-13.00	-42.17	1.68 H	301	41.51	-96.68
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	-55.32	-13.00	-42.32	1.50 V	277	41.36	-96.68

Remarks:

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



RF Mode	LTE Band 12 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.35	-13.00	-39.35	1.00 H	100	44.40	-96.75
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	1415.00	-52.75	-13.00	-39.75	1.57 V	144	44.00	-96.75

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 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.69	-13.00	-39.69	1.81 H	296	44.12	-96.81
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	1427.00	-53.34	-13.00	-40.34	1.66 V	137	43.47	-96.81

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 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-56.34	-13.00	-43.34	1.14 H	184	40.37	-96.71
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	1408.00	-53.49	-13.00	-40.49	1.40 V	197	43.22	-96.71

Remarks:

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

RF Mode	LTE Band 12 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-51.55	-13.00	-38.55	1.95 H	357	45.20	-96.75
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	1415.00	-50.14	-13.00	-37.14	1.64 V	200	46.61	-96.75

Remarks:

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



RF Mode	LTE Band 12 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-55.54	-13.00	-42.54	1.67 H	294	41.24	-96.78
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	1422.00	-51.82	-13.00	-38.82	1.05 V	360	44.96	-96.78

Remarks:

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

7.7.4 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-50.25	-40.00	-10.25	1.37 H	33	44.19	-94.44
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	-47.29	-40.00	-7.29	1.45 V	166	47.15	-94.44

Remarks:

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



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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-49.82	-40.00	-9.82	1.12 H	21	44.58	-94.40
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	-47.25	-40.00	-7.25	1.64 V	177	47.15	-94.40

Remarks:

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

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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-49.38	-40.00	-9.38	1.34 H	194	44.96	-94.34
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1569.00	-44.53	-40.00	-4.53	1.67 V	4	49.81	-94.34

Remarks:

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



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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-45.09	-40.00	-5.09	1.57 H	7	49.31	-94.40
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	-41.75	-40.00	-1.75	1.05 V	200	52.65	-94.40

Remarks:

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

7.7.5 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-56.46	-13.00	-43.46	1.66 H	299	40.28	-96.74

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	-54.17	-13.00	-41.17	1.34 V	144	42.57	-96.74

Remarks:

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

RF Mode	LTE Band 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-53.75	-13.00	-40.75	1.37 H	331	43.03	-96.78
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	1420.00	-51.91	-13.00	-38.91	1.25 V	250	44.87	-96.78

Remarks:

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

RF Mode	LTE Band 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-54.11	-13.00	-41.11	1.70 H	281	42.70	-96.81
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	1427.00	-52.18	-13.00	-39.18	1.37 V	101	44.63	-96.81

Remarks:

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



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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-56.12	-13.00	-43.12	1.41 H	134	40.65	-96.77
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	-52.67	-13.00	-39.67	1.24 V	302	44.10	-96.77

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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-58.60	-13.00	-45.60	1.78 H	88	38.18	-96.78
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	1420.00	-58.38	-13.00	-45.38	1.47 V	192	38.40	-96.78

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 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-55.74	-13.00	-42.74	1.78 H	48	41.04	-96.78
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	1422.00	-51.27	-13.00	-38.27	1.64 V	166	45.51	-96.78

Remarks:

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

7.7.6 LTE Band 66

RF Mode	LTE Band 66 Channel Bandwidth: 1.4MHz	Channel	CH 131979 : 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.37	-13.00	-39.37	1.14 H	160	33.69	-86.06
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	3421.40	-51.91	-13.00	-38.91	1.66 V	347	34.15	-86.06

Remarks:

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

RF Mode	LTE Band 66 Channel Bandwidth: 1.4MHz	Channel	CH 132322 : 1745 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.49	-13.00	-39.49	1.67 H	118	33.34	-85.83
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	-52.22	-13.00	-39.22	1.44 V	145	33.61	-85.83

Remarks:

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



RF Mode	LTE Band 66 Channel Bandwidth: 1.4MHz	Channel	CH 132665 : 1779.3 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	3558.60	-51.27	-13.00	-38.27	1.45 H	5	34.65	-85.92
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	3558.60	-52.20	-13.00	-39.20	1.57 V	357	33.72	-85.92

Remarks:

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

RF Mode	LTE Band 66 Channel Bandwidth: 5MHz	Channel	CH 131997 : 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	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.06	-13.00	-39.06	1.44 H	140	34.01	-86.07
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	3425.00	-51.93	-13.00	-38.93	1.64 V	260	34.14	-86.07

Remarks:

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



RF Mode	LTE Band 66 Channel Bandwidth: 5MHz	Channel	CH 132322 : 1745 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.51	-13.00	-39.51	1.54 H	187	33.32	-85.83
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	-52.19	-13.00	-39.19	1.67 V	334	33.64	-85.83

Remarks:

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



RF Mode	LTE Band 66 Channel Bandwidth: 5MHz	Channel	CH 132647 : 1777.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	3555.00	-52.02	-13.00	-39.02	1.92 H	277	33.90	-85.92
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	3555.00	-51.91	-13.00	-38.91	1.64 V	277	34.01	-85.92

Remarks:

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



RF Mode	LTE Band 66 Channel Bandwidth: 20MHz	Channel	CH 132072 : 1720 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3440.00	-52.54	-13.00	-39.54	1.66 H	190	33.55	-86.09
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	3440.00	-52.14	-13.00	-39.14	1.15 V	160	33.95	-86.09

Remarks:

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

RF Mode	LTE Band 66 Channel Bandwidth: 20MHz	Channel	CH 132322 : 1745 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	-52.65	-13.00	-39.65	1.17 H	170	33.18	-85.83
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	-51.02	-13.00	-38.02	1.83 V	335	34.81	-85.83

Remarks:

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

RF Mode	LTE Band 66 Channel Bandwidth: 20MHz	Channel	CH 132572 : 1770 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 60% RH
Tested By	Charles Hsiao		

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	3540.00	-51.95	-13.00	-38.95	1.15 H	187	33.92	-85.87
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	3540.00	-52.49	-13.00	-39.49	1.44 V	14	33.38	-85.87

Remarks:

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

7.8 Frequency Stability

Input Power:	3.87 Vdc	Environmental Conditions:	23°C, 68% RH	Tested By:	Noah Chang
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7.8.1 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)
3.40	1850.699997	-0.002	1909.300000	0.002
3.87	1850.700003	0.002	1909.299999	-0.001
4.45	1850.700003	0.002	1909.299996	-0.002

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18607 (1850.7 MHz)		CH 19193 (1909.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1850.699996	-0.002	1909.300002	0.001
10	1850.699996	-0.002	1909.300002	0.001
20	1850.700002	0.001	1909.300001	0.001
30	1850.700001	0.001	1909.300002	0.001
40	1850.700001	0.001	1909.300002	0.001
50	1850.700004	0.002	1909.300004	0.002
55	1850.699997	-0.002	1909.300002	0.001

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

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)
3.40	1851.499999	-0.001	1908.499998	-0.001
3.87	1851.499996	-0.002	1908.500003	0.002
4.45	1851.500001	0.001	1908.499999	-0.001

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18615 (1851.5 MHz)		CH 19185 (1908.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1851.499999	-0.001	1908.499998	-0.001
10	1851.500003	0.002	1908.500003	0.002
20	1851.500004	0.002	1908.500001	0.001
30	1851.500003	0.002	1908.499998	-0.001
40	1851.499998	-0.001	1908.499997	-0.002
50	1851.499996	-0.002	1908.499997	-0.002
55	1851.499997	-0.002	1908.499996	-0.002

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

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)
3.40	1852.499998	-0.001	1907.500004	0.002
3.87	1852.500002	0.001	1907.500003	0.002
4.45	1852.499997	-0.002	1907.499997	-0.002

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18625 (1852.5 MHz)		CH 19175 (1907.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1852.500002	0.001	1907.499996	-0.002
10	1852.500003	0.002	1907.500004	0.002
20	1852.499998	-0.001	1907.500002	0.001
30	1852.500003	0.002	1907.499997	-0.002
40	1852.500002	0.001	1907.500002	0.001
50	1852.499997	-0.002	1907.500001	0.001
55	1852.500002	0.001	1907.500003	0.002

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

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)
3.40	1855.000003	0.002	1905.000003	0.002
3.87	1854.999996	-0.002	1904.999998	-0.001
4.45	1854.999997	-0.002	1904.999998	-0.001

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18650 (1855 MHz)		CH 19150 (1905 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1854.999999	-0.001	1905.000001	0.001
10	1855.000003	0.002	1905.000003	0.002
20	1854.999997	-0.002	1904.999996	-0.002
30	1855.000001	0.001	1905.000001	0.001
40	1854.999996	-0.002	1904.999997	-0.002
50	1855.000002	0.001	1905.000002	0.001
55	1855.000001	0.001	1904.999998	-0.001

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

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)
3.40	1857.499998	-0.001	1902.500003	0.002
3.87	1857.499999	-0.001	1902.500001	0.001
4.45	1857.500002	0.001	1902.499998	-0.001

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18675 (1857.5 MHz)		CH 19125 (1902.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1857.499996	-0.002	1902.500001	0.001
10	1857.499998	-0.001	1902.500002	0.001
20	1857.499998	-0.001	1902.499999	-0.001
30	1857.499996	-0.002	1902.500004	0.002
40	1857.500001	0.001	1902.500002	0.001
50	1857.500004	0.002	1902.499996	-0.002
55	1857.499999	-0.001	1902.499999	-0.001

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

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)
3.40	1859.999997	-0.002	1899.999999	-0.001
3.87	1860.000002	0.001	1900.000001	0.001
4.45	1860.000002	0.001	1900.000002	0.001

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18700 (1860 MHz)		CH 19100 (1900 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1859.999996	-0.002	1900.000002	0.001
10	1860.000003	0.002	1899.999996	-0.002
20	1860.000004	0.002	1900.000004	0.002
30	1859.999998	-0.001	1900.000004	0.002
40	1860.000002	0.001	1900.000004	0.002
50	1860.000003	0.002	1900.000003	0.002
55	1859.999998	-0.001	1900.000003	0.002

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

7.8.2 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)
3.40	1710.699996	-0.002	1754.299999	-0.001
3.87	1710.699997	-0.002	1754.300002	0.001
4.45	1710.700003	0.002	1754.299999	-0.001

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 19957 (1710.7 MHz)		CH 20393 (1754.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1710.699999	-0.001	1754.299996	-0.002
10	1710.700002	0.001	1754.299996	-0.002
20	1710.700004	0.002	1754.299998	-0.001
30	1710.700003	0.002	1754.299997	-0.002
40	1710.699997	-0.002	1754.299996	-0.002
50	1710.699999	-0.001	1754.299999	-0.001
55	1710.700001	0.001	1754.299999	-0.001

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

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)
3.40	1711.499996	-0.002	1753.499997	-0.002
3.87	1711.500002	0.001	1753.500003	0.002
4.45	1711.499999	-0.001	1753.500004	0.002

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 19965 (1711.5 MHz)		CH 20385 (1753.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1711.500002	0.001	1753.500001	0.001
10	1711.499999	-0.001	1753.499997	-0.002
20	1711.499998	-0.001	1753.500001	0.001
30	1711.499999	-0.001	1753.500001	0.001
40	1711.499999	-0.001	1753.500001	0.001
50	1711.499999	-0.001	1753.500004	0.002
55	1711.499997	-0.002	1753.499997	-0.002

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

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)
3.40	1712.499999	-0.001	1752.500003	0.002
3.87	1712.499997	-0.002	1752.499996	-0.002
4.45	1712.499998	-0.001	1752.499999	-0.001

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 19975 (1712.5 MHz)		CH 20375 (1752.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1712.500003	0.002	1752.499998	-0.001
10	1712.499998	-0.001	1752.500003	0.002
20	1712.500001	0.001	1752.499998	-0.001
30	1712.499997	-0.002	1752.499999	-0.001
40	1712.500004	0.002	1752.499999	-0.001
50	1712.500002	0.001	1752.500001	0.001
55	1712.500003	0.002	1752.500001	0.001

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

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)
3.40	1715.000004	0.002	1750.000002	0.001
3.87	1715.000001	0.001	1749.999999	-0.001
4.45	1715.000001	0.001	1750.000001	0.001

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 20000 (1715 MHz)		CH 20350 (1750 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1715.000004	0.002	1750.000004	0.002
10	1714.999996	-0.002	1750.000001	0.001
20	1715.000001	0.001	1750.000003	0.002
30	1715.000001	0.001	1749.999999	-0.001
40	1714.999999	-0.001	1750.000002	0.001
50	1714.999997	-0.002	1749.999997	-0.002
55	1715.000004	0.002	1750.000002	0.001

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

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)
3.40	1717.500003	0.002	1747.500004	0.002
3.87	1717.499997	-0.002	1747.499997	-0.002
4.45	1717.499996	-0.002	1747.499998	-0.001

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 20025 (1717.5 MHz)		CH 20325 (1747.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1717.499999	-0.001	1747.499996	-0.002
10	1717.500004	0.002	1747.499998	-0.001
20	1717.500001	0.001	1747.500003	0.002
30	1717.499999	-0.001	1747.500001	0.001
40	1717.499997	-0.002	1747.500002	0.001
50	1717.500003	0.002	1747.499996	-0.002
55	1717.499999	-0.001	1747.500002	0.001

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

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)
3.40	1719.999996	-0.002	1745.000001	0.001
3.87	1719.999999	-0.001	1745.000001	0.001
4.45	1720.000004	0.002	1744.999998	-0.001

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 20050 (1720 MHz)		CH 20300 (1745 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1719.999998	-0.001	1744.999996	-0.002
10	1720.000002	0.001	1744.999996	-0.002
20	1720.000001	0.001	1744.999999	-0.001
30	1720.000003	0.002	1745.000002	0.001
40	1720.000004	0.002	1744.999996	-0.002
50	1720.000003	0.002	1744.999996	-0.002
55	1719.999996	-0.002	1745.000002	0.001

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

7.8.3 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)
3.40	699.700001	0.001	715.299997	-0.004
3.87	699.700002	0.003	715.299997	-0.004
4.45	699.700004	0.006	715.299997	-0.004

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23017 (699.7 MHz)		CH 23173 (715.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	699.699996	-0.006	715.299998	-0.003
10	699.699999	-0.001	715.300002	0.003
20	699.699996	-0.006	715.300003	0.004
30	699.699999	-0.001	715.299999	-0.001
40	699.699998	-0.003	715.299999	-0.001
50	699.700002	0.003	715.299997	-0.004
55	699.699996	-0.006	715.299996	-0.006

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

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)
3.40	700.499996	-0.006	714.499997	-0.004
3.87	700.500004	0.006	714.499998	-0.003
4.45	700.499998	-0.003	714.500002	0.003

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23025 (700.5 MHz)		CH 23165 (714.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	700.499998	-0.003	714.500004	0.006
10	700.500001	0.001	714.499996	-0.006
20	700.500002	0.003	714.499998	-0.003
30	700.500004	0.006	714.499999	-0.001
40	700.499996	-0.006	714.500003	0.004
50	700.499999	-0.001	714.499996	-0.006
55	700.499996	-0.006	714.500004	0.006

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

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)
3.40	701.499999	-0.001	713.499998	-0.003
3.87	701.499997	-0.004	713.500002	0.003
4.45	701.499996	-0.006	713.499999	-0.001

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23035 (701.5 MHz)		CH 23155 (713.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	701.500003	0.004	713.499997	-0.004
10	701.500004	0.006	713.500004	0.006
20	701.500002	0.003	713.499999	-0.001
30	701.500003	0.004	713.499999	-0.001
40	701.500001	0.001	713.499998	-0.003
50	701.499997	-0.004	713.500001	0.001
55	701.499998	-0.003	713.500003	0.004

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

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)
3.40	703.999998	-0.003	710.999996	-0.006
3.87	703.999999	-0.001	711.000001	0.001
4.45	704.000001	0.001	711.000004	0.006

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23060 (704 MHz)		CH 23130 (711 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	704.000004	0.006	710.999996	-0.006
10	704.000004	0.006	710.999996	-0.006
20	703.999998	-0.003	710.999997	-0.004
30	704.000002	0.003	710.999998	-0.003
40	703.999997	-0.004	711.000004	0.006
50	703.999999	-0.001	711.000002	0.003
55	704.000001	0.001	711.000001	0.001

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

7.8.4 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)
3.40	779.499999	-0.001	784.500003	0.004
3.87	779.500002	0.003	784.500002	0.003
4.45	779.500003	0.004	784.499999	-0.001

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23205 (779.5 MHz)		CH 23255 (784.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	779.499999	-0.001	784.499998	-0.003
10	779.499996	-0.005	784.499996	-0.005
20	779.499997	-0.004	784.499996	-0.005
30	779.500003	0.004	784.500001	0.001
40	779.499998	-0.003	784.500003	0.004
50	779.500003	0.004	784.500003	0.004
55	779.499998	-0.003	784.500004	0.005

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

LTE Band 13, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage		
Voltage (Vdc)	CH 23230 (782 MHz)	
	Frequency (MHz)	Frequency Error (ppm)
3.40	782.000004	0.005
3.87	782.000004	0.005
4.45	781.999999	-0.001

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature		
Temperature (°C)	CH 23230 (782 MHz)	
	Frequency (MHz)	Frequency Error (ppm)
0	782.000002	0.003
10	782.000001	0.001
20	781.999996	-0.005
30	782.000004	0.005
40	781.999998	-0.003
50	782.000004	0.005
55	781.999999	-0.001

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

7.8.5 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)
3.40	706.499998	-0.003	713.500002	0.003
3.87	706.500001	0.001	713.499997	-0.004
4.45	706.500002	0.003	713.499999	-0.001

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23755 (706.5 MHz)		CH 23825 (713.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	706.500003	0.004	713.499999	-0.001
10	706.499997	-0.004	713.499997	-0.004
20	706.500001	0.001	713.500004	0.006
30	706.500001	0.001	713.500003	0.004
40	706.500004	0.006	713.499996	-0.006
50	706.500001	0.001	713.499999	-0.001
55	706.499997	-0.004	713.500004	0.006

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

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)
3.40	709.000004	0.006	711.000003	0.004
3.87	709.000001	0.001	710.999997	-0.004
4.45	709.000002	0.003	711.000004	0.006

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23780 (709 MHz)		CH 23800 (711 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	708.999999	-0.001	711.000004	0.006
10	708.999996	-0.006	711.000001	0.001
20	708.999999	-0.001	710.999998	-0.003
30	708.999997	-0.004	710.999996	-0.006
40	709.000002	0.003	710.999999	-0.001
50	709.000002	0.003	710.999997	-0.004
55	708.999998	-0.003	710.999999	-0.001

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

7.8.6 LTE Band 66

LTE Band 66, Channel Bandwidth: 1.4 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 131979 (1710.7 MHz)		CH 132665 (1779.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.40	1710.699996	-0.002	1779.299998	-0.001
3.87	1710.700002	0.001	1779.299996	-0.002
4.45	1710.699998	-0.001	1779.300004	0.002

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 131979 (1710.7 MHz)		CH 132665 (1779.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1710.699998	-0.001	1779.299997	-0.002
10	1710.699998	-0.001	1779.299996	-0.002
20	1710.699996	-0.002	1779.299999	-0.001
30	1710.700003	0.002	1779.300004	0.002
40	1710.699996	-0.002	1779.300002	0.001
50	1710.699996	-0.002	1779.299997	-0.002
55	1710.699999	-0.001	1779.300002	0.001

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

LTE Band 66, Channel Bandwidth: 3 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 131987 (1711.5 MHz)		CH 132657 (1778.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.40	1711.500001	0.001	1778.500003	0.002
3.87	1711.499999	-0.001	1778.499997	-0.002
4.45	1711.500004	0.002	1778.500003	0.002

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 131987 (1711.5 MHz)		CH 132657 (1778.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1711.500001	0.001	1778.500004	0.002
10	1711.500003	0.002	1778.499999	-0.001
20	1711.500001	0.001	1778.500003	0.002
30	1711.500003	0.002	1778.499997	-0.002
40	1711.500002	0.001	1778.499999	-0.001
50	1711.500001	0.001	1778.499997	-0.002
55	1711.499996	-0.002	1778.500001	0.001

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

LTE Band 66, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 131997 (1712.5 MHz)		CH 132647 (1777.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.40	1712.500001	0.001	1777.499998	-0.001
3.87	1712.500004	0.002	1777.500002	0.001
4.45	1712.500003	0.002	1777.500001	0.001

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 131997 (1712.5 MHz)		CH 132647 (1777.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1712.500001	0.001	1777.500004	0.002
10	1712.500002	0.001	1777.499998	-0.001
20	1712.500002	0.001	1777.499999	-0.001
30	1712.499996	-0.002	1777.499997	-0.002
40	1712.500003	0.002	1777.500002	0.001
50	1712.499996	-0.002	1777.500003	0.002
55	1712.499996	-0.002	1777.499996	-0.002

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

LTE Band 66, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 132022 (1715 MHz)		CH 132622 (1775 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.40	1714.999998	-0.001	1775.000001	0.001
3.87	1714.999996	-0.002	1775.000001	0.001
4.45	1715.000004	0.002	1774.999997	-0.002

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 132022 (1715 MHz)		CH 132622 (1775 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1715.000001	0.001	1774.999999	-0.001
10	1715.000003	0.002	1774.999998	-0.001
20	1714.999998	-0.001	1774.999998	-0.001
30	1714.999996	-0.002	1775.000002	0.001
40	1714.999999	-0.001	1774.999999	-0.001
50	1714.999997	-0.002	1774.999998	-0.001
55	1715.000002	0.001	1774.999998	-0.001

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

LTE Band 66, Channel Bandwidth: 15 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 132047 (1717.5 MHz)		CH 132597 (1772.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.40	1717.499999	-0.001	1772.500001	0.001
3.87	1717.499999	-0.001	1772.499999	-0.001
4.45	1717.499996	-0.002	1772.500003	0.002

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 132047 (1717.5 MHz)		CH 132597 (1772.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1717.499999	-0.001	1772.499997	-0.002
10	1717.499996	-0.002	1772.499996	-0.002
20	1717.500002	0.001	1772.499998	-0.001
30	1717.499996	-0.002	1772.500004	0.002
40	1717.500001	0.001	1772.499998	-0.001
50	1717.500004	0.002	1772.499998	-0.001
55	1717.499999	-0.001	1772.500001	0.001

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

LTE Band 66, Channel Bandwidth: 20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 132072 (1720 MHz)		CH 132572 (1770 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.40	1720.000001	0.001	1769.999999	-0.001
3.87	1720.000004	0.002	1770.000001	0.001
4.45	1719.999999	-0.001	1769.999997	-0.002

Note: The applicant defined the normal working voltage is from 3.40 to 4.45 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 132072 (1720 MHz)		CH 132572 (1770 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
0	1719.999999	-0.001	1770.000003	0.002
10	1719.999996	-0.002	1770.000004	0.002
20	1720.000003	0.002	1769.999997	-0.002
30	1720.000003	0.002	1770.000004	0.002
40	1719.999998	-0.001	1770.000002	0.001
50	1719.999999	-0.001	1769.999996	-0.002
55	1720.000003	0.002	1770.000002	0.001

Note: When operating at temperatures below 0 degrees, the EUT will shut down.

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.

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

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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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