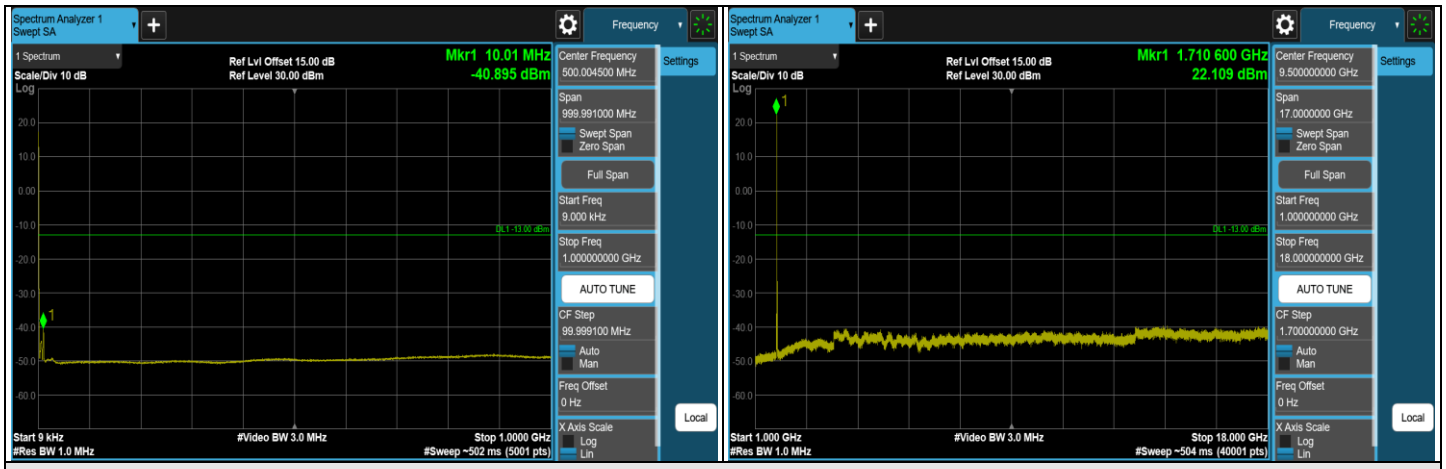
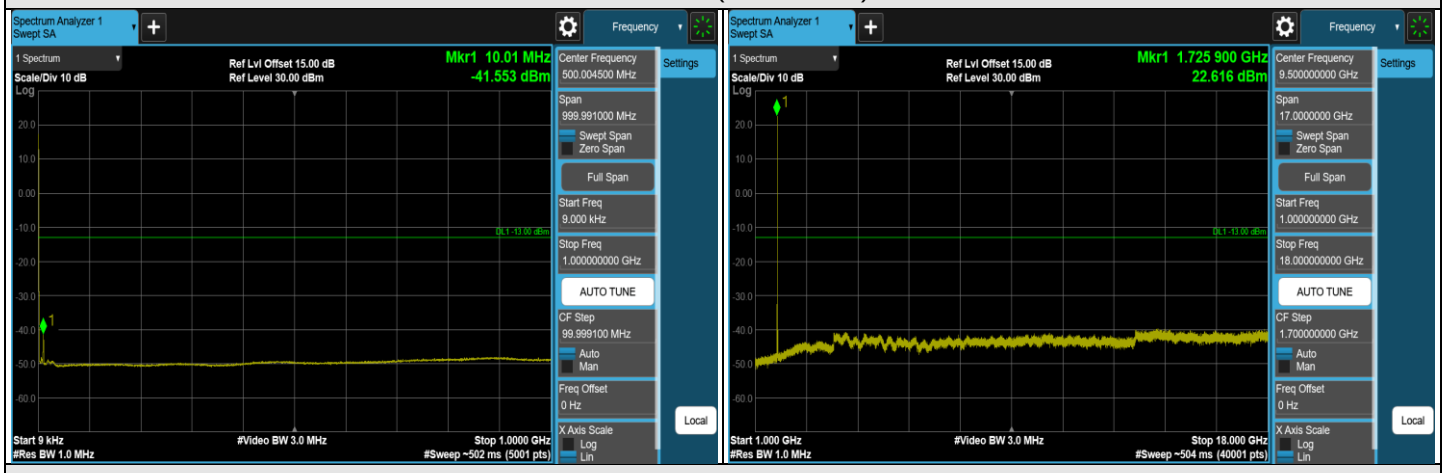
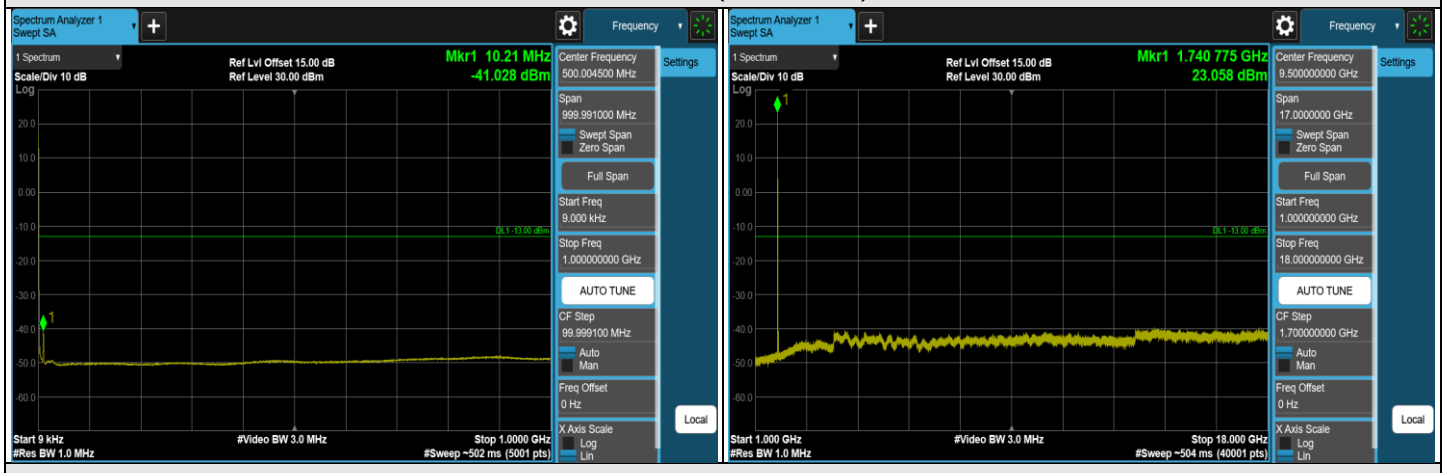
LTE Band 4, Channel Bandwidth: 15 MHz



CH 20025 (1717.5MHz)

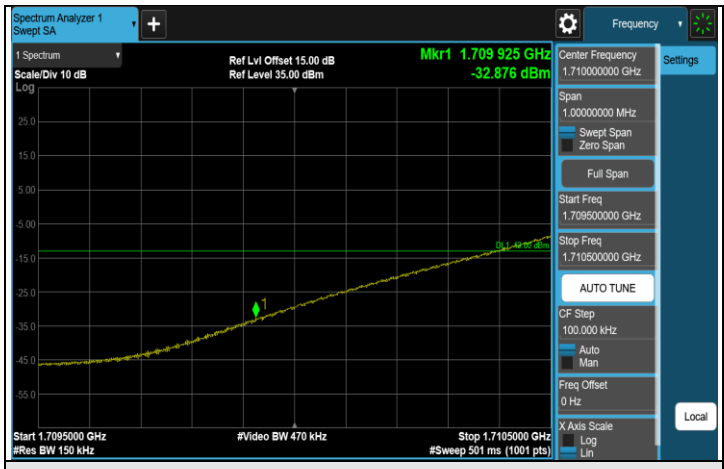


CH 20175 (1732.5MHz)

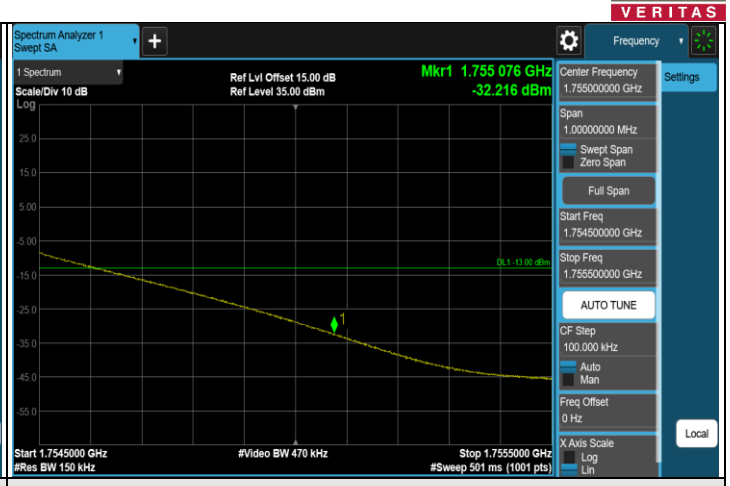


CH 20325 (1747.5MHz)

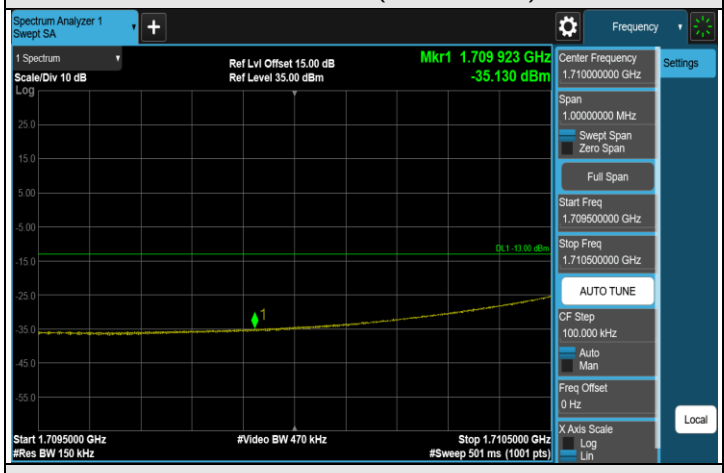
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



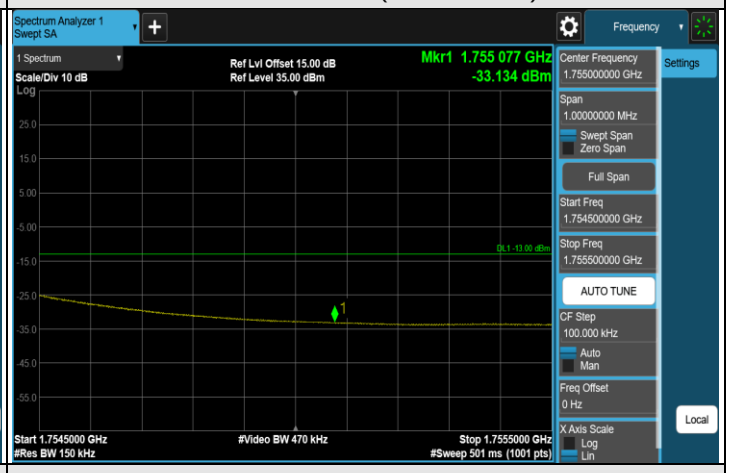
1RB CH 20025 (1717.5 MHz)



1RB CH 20325 (1747.5 MHz)

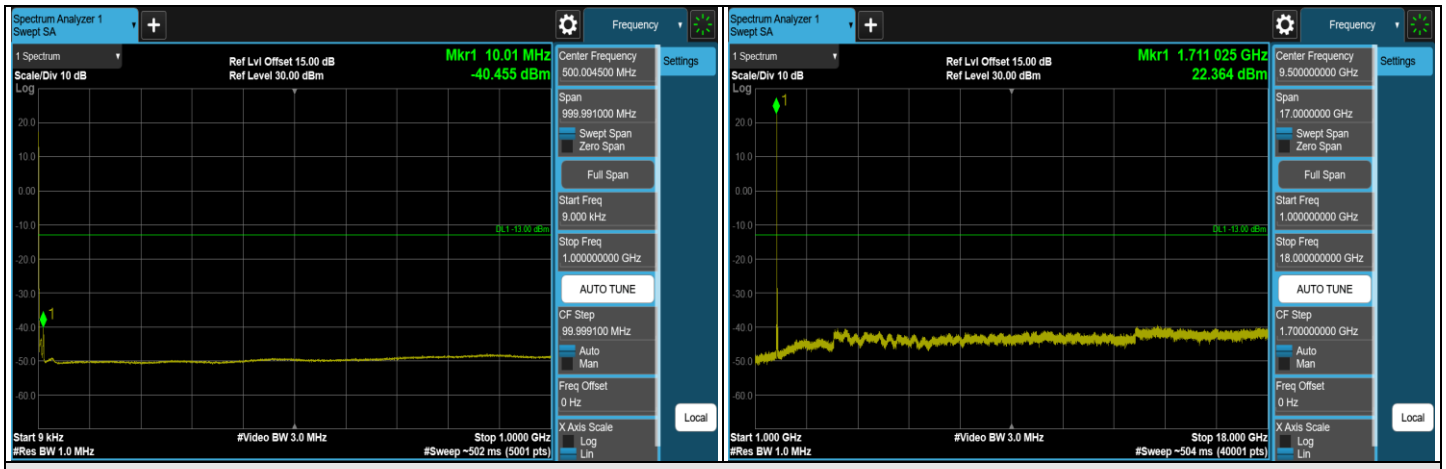


FULL CH 20025 (1717.5 MHz)

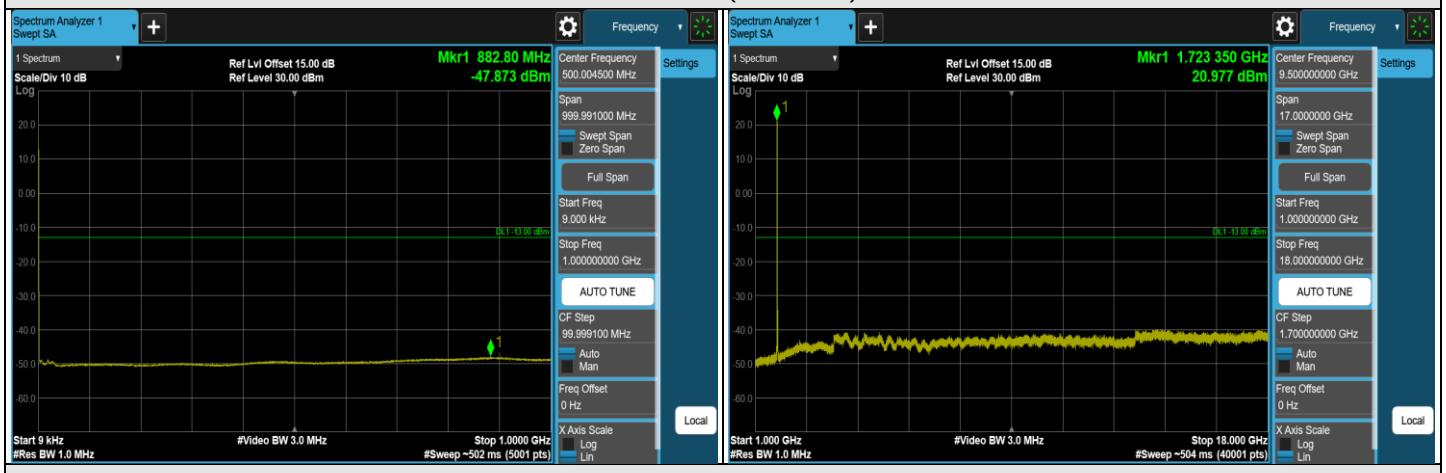


FULL CH 20325 (1747.5 MHz)

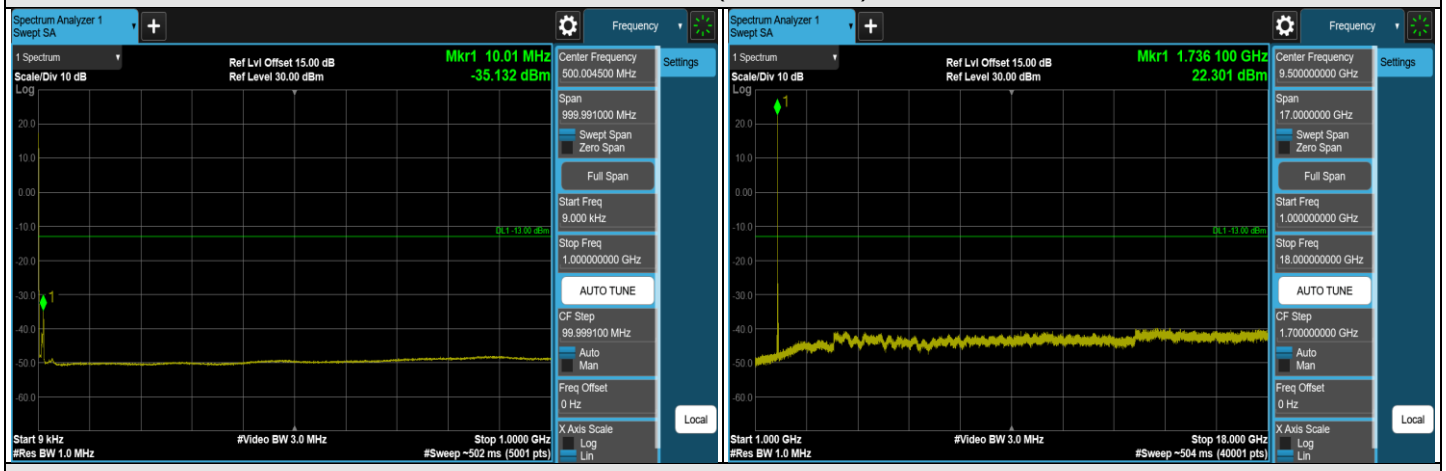
LTE Band 4, Channel Bandwidth: 20 MHz



CH 20050 (1720MHz)



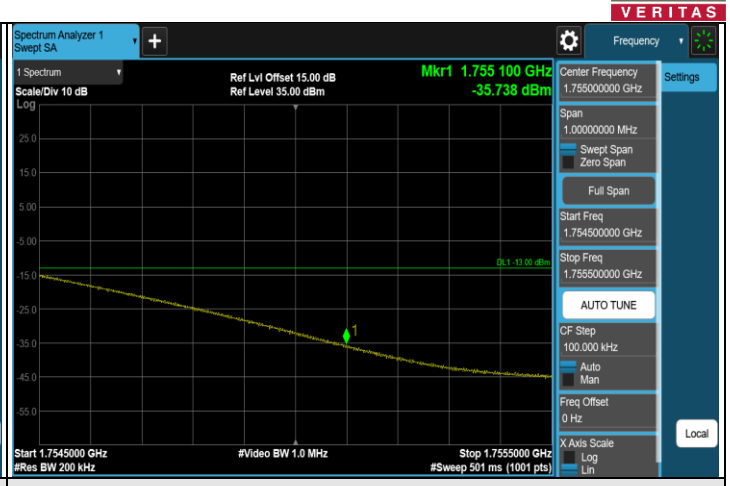
CH 20175 (1732.5MHz)



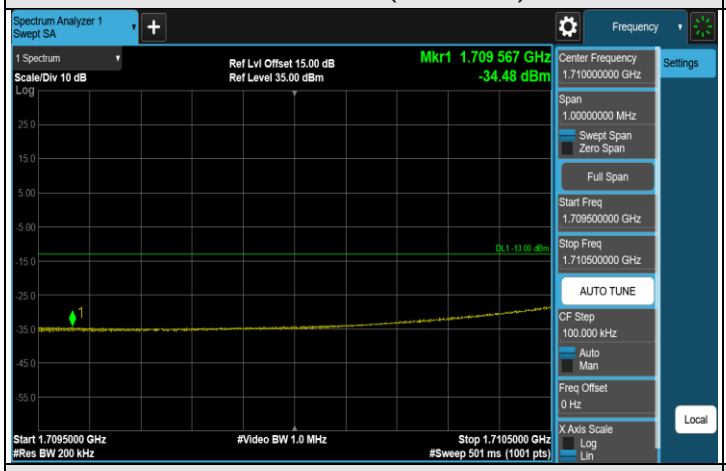
CH 20300 (1745MHz)

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

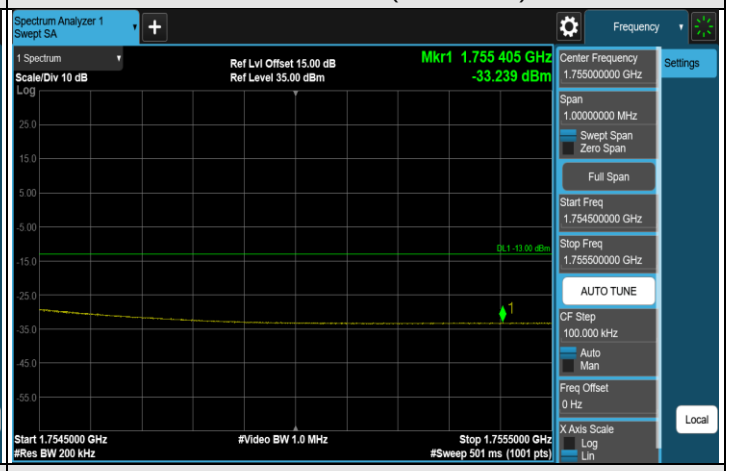
1RB CH 20050 (1720 MHz)



1RB CH 20300 (1745 MHz)



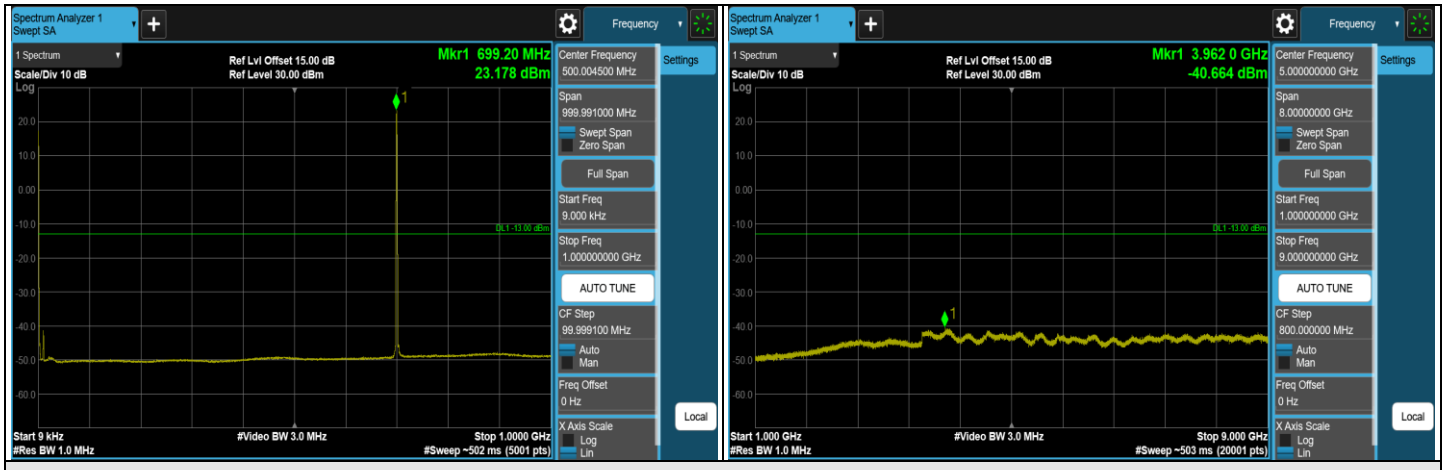
FULL CH 20050 (1720 MHz)



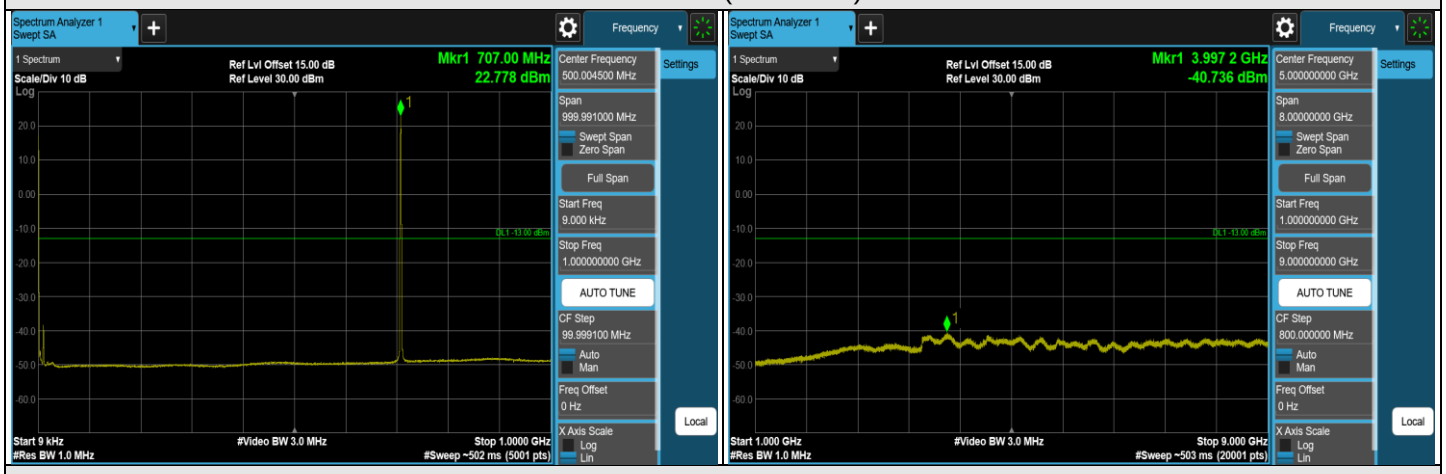
FULL CH 20300 (1745 MHz)

7.5.3 LTE Band 12

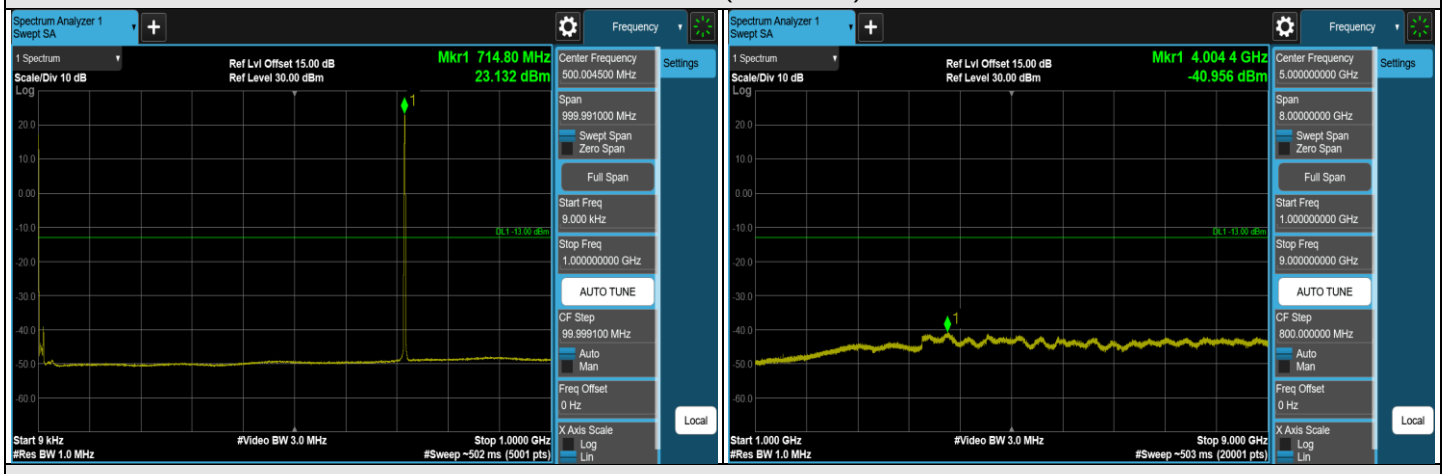
LTE Band 12, Channel Bandwidth: 1.4 MHz



CH 23017 (699.7MHz)

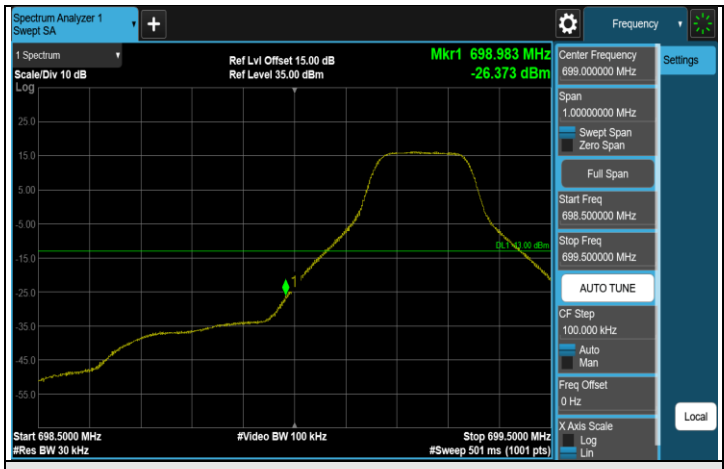


CH 23095 (707.5MHz)

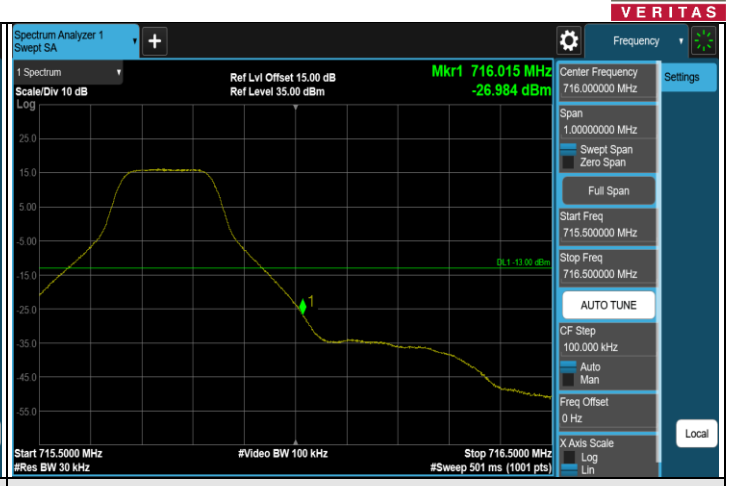


CH 23173 (715.3MHz)

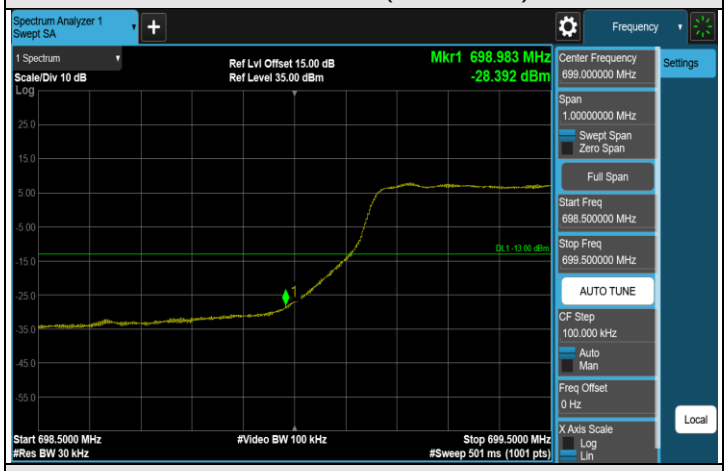
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



1RB CH 23017 (699.7 MHz)



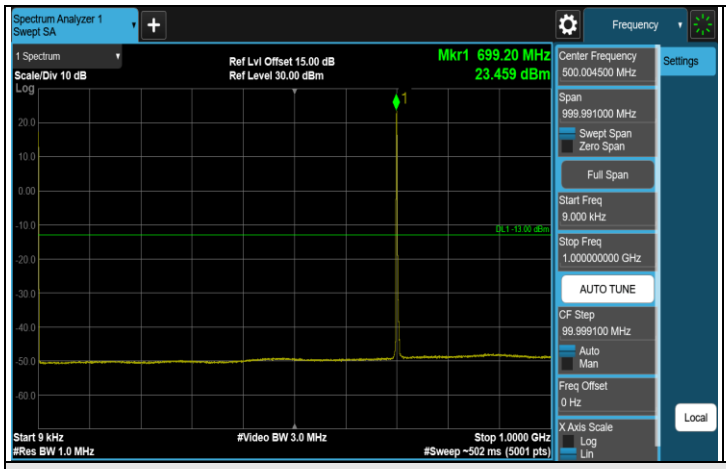
1RB CH 23173 (715.3 MHz)

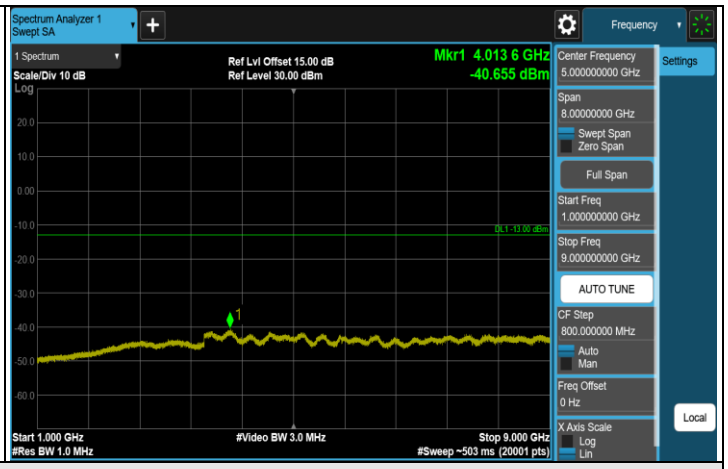


FULL CH 23017 (699.7 MHz)

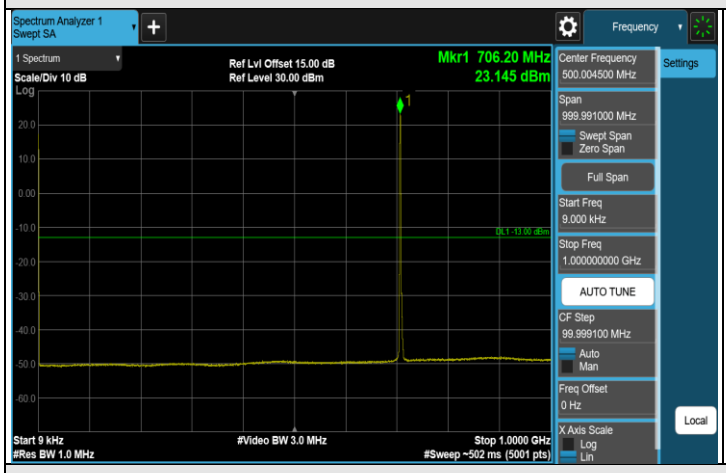
FULL CH 23173 (715.3 MHz)

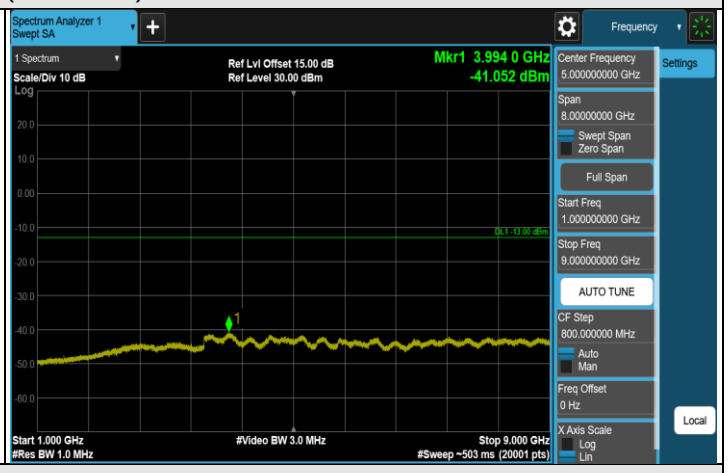
LTE Band 12, Channel Bandwidth: 3 MHz



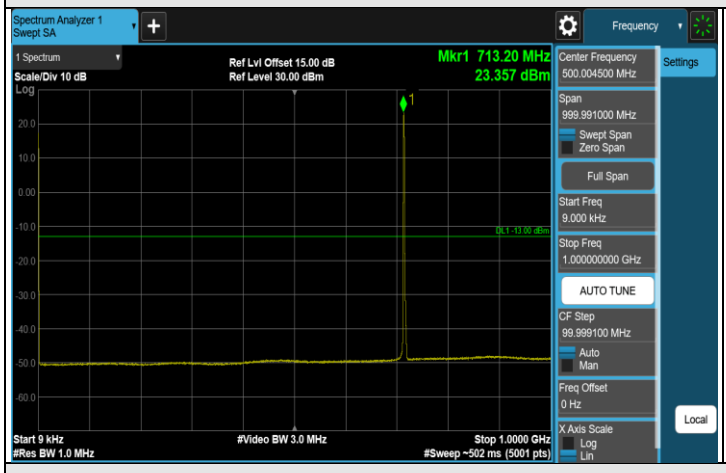


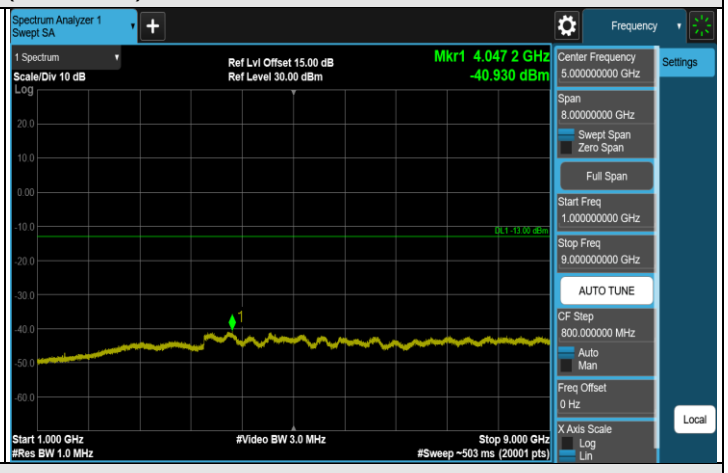
CH 23025 (700.5MHz)





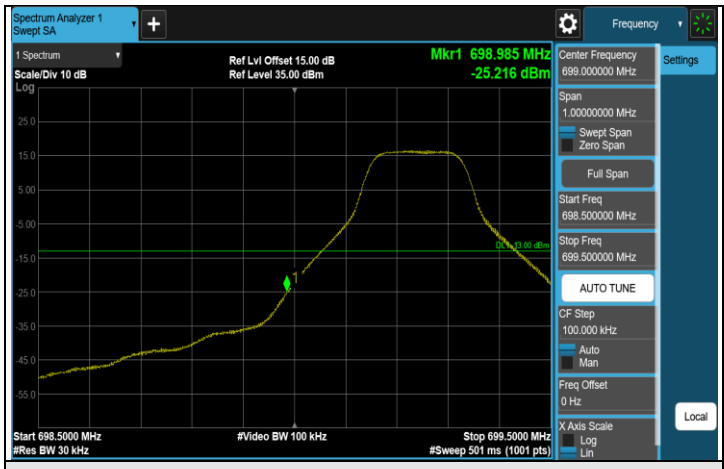
CH 23095 (707.5MHz)



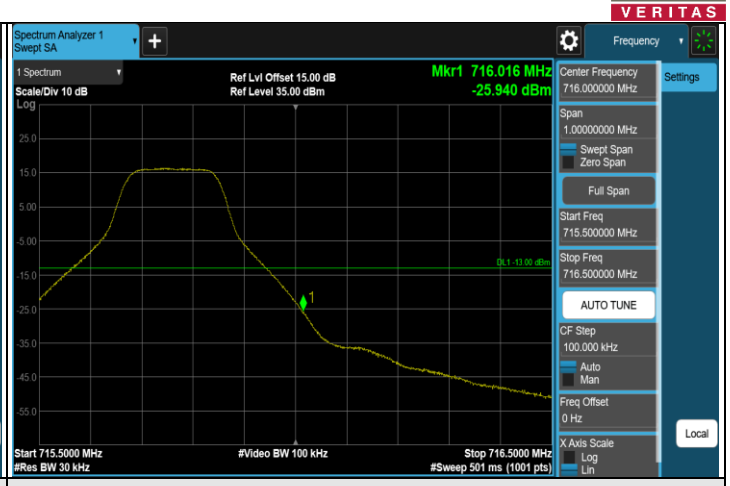


CH 23165 (714.5MHz)

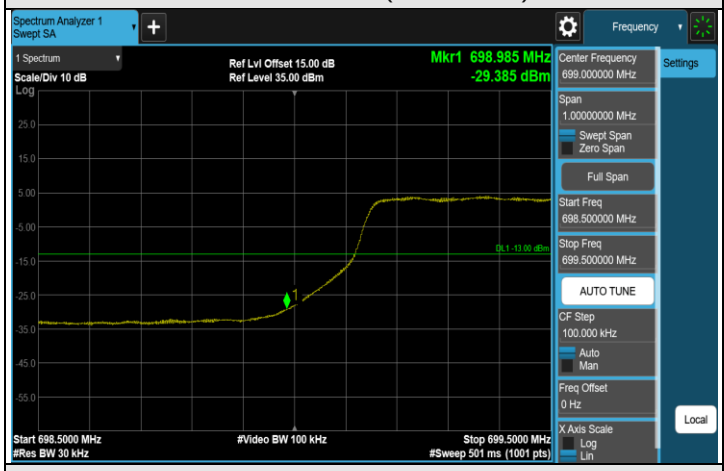
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



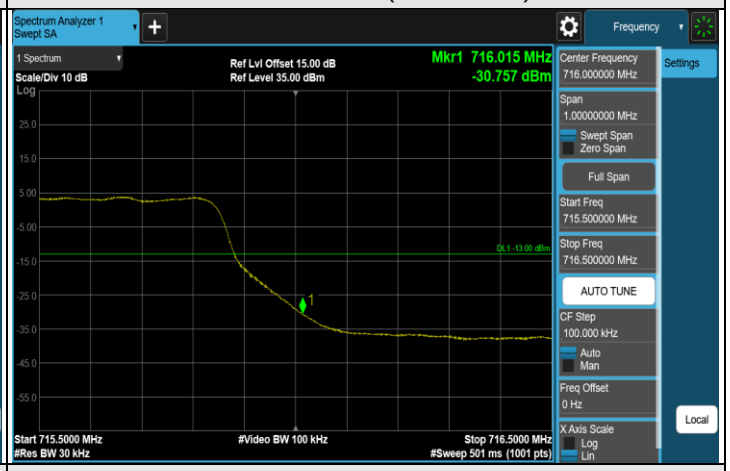
1RB CH 23025 (700.5 MHz)



1RB CH 23165 (714.5 MHz)

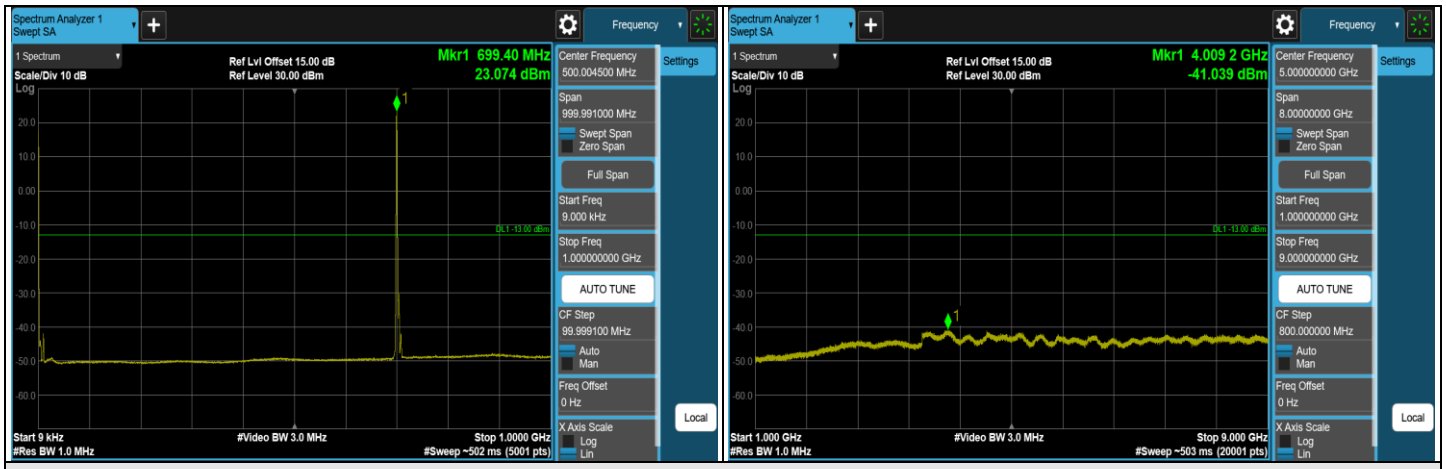


FULL CH 23025 (700.5 MHz)

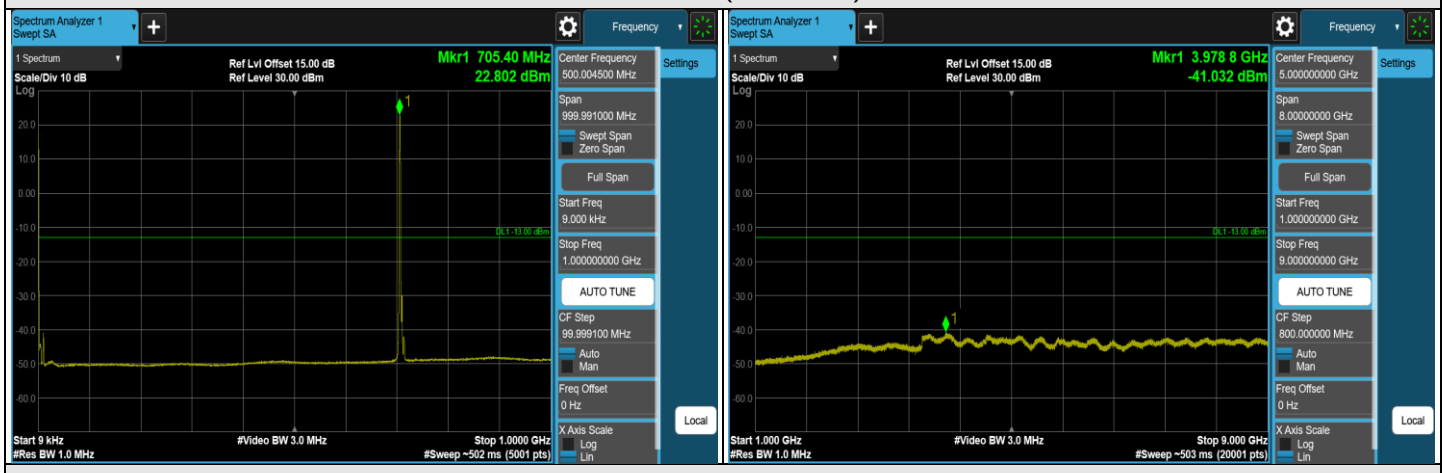


FULL CH 23165 (714.5 MHz)

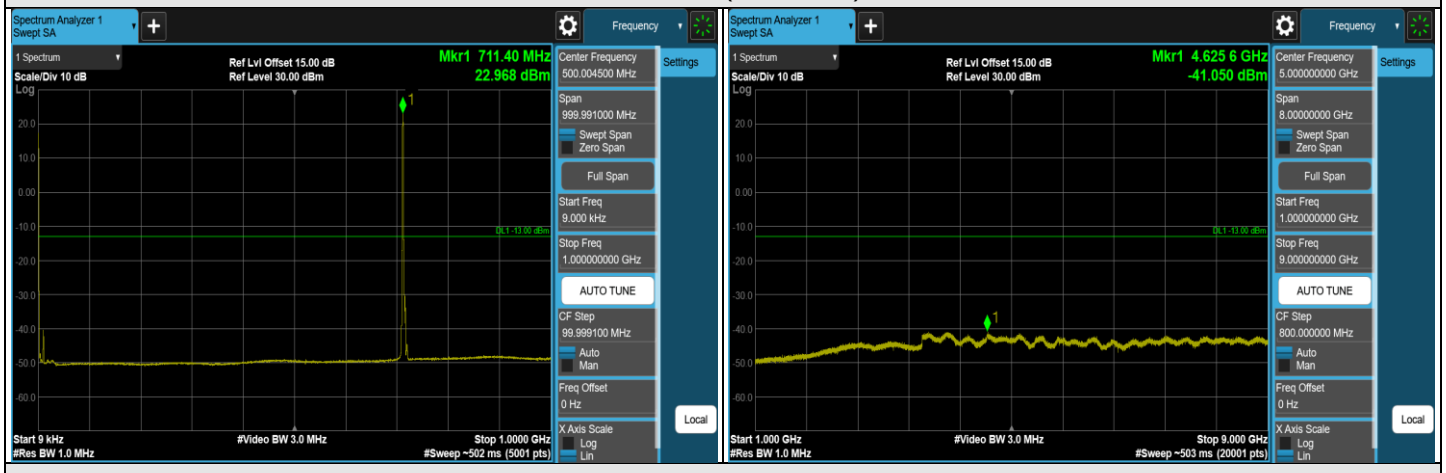
LTE Band 12, Channel Bandwidth: 5 MHz



CH 23035 (701.5MHz)

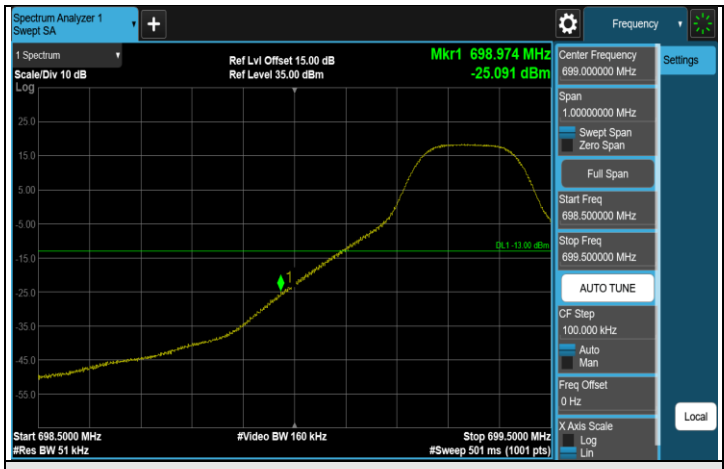


CH 23095 (707.5MHz)

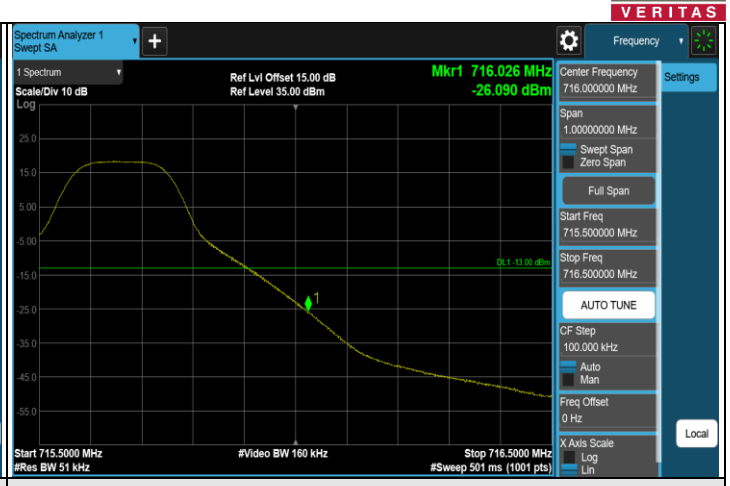


CH 23155 (713.5MHz)

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

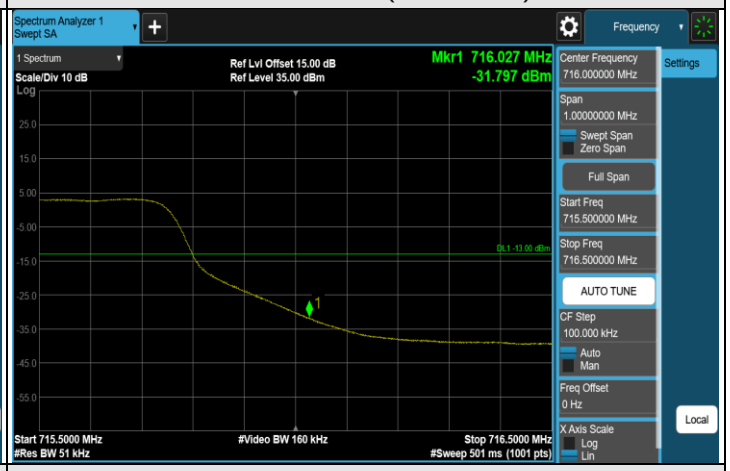


1RB CH 23035 (701.5 MHz)



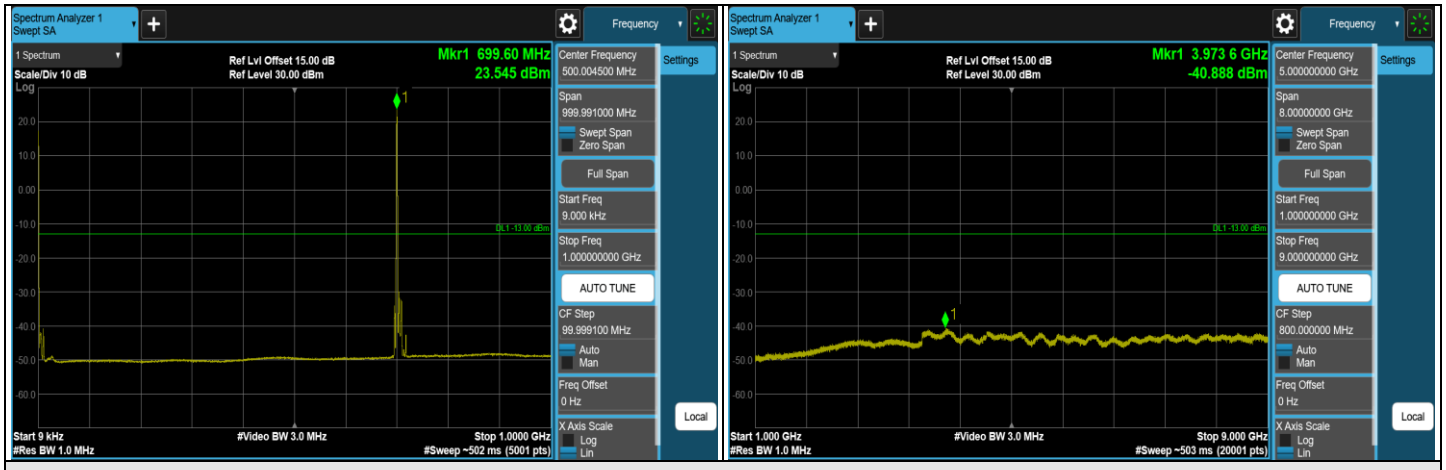
1RB CH 23155 (713.5 MHz)

FULL CH 23035 (701.5 MHz)

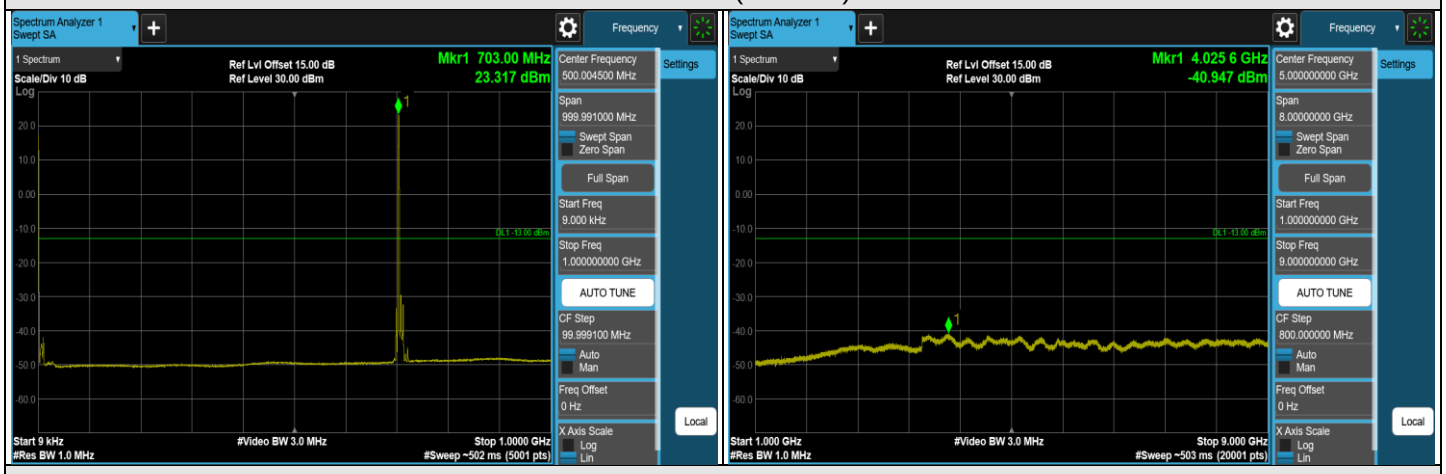


FULL CH 23155 (713.5 MHz)

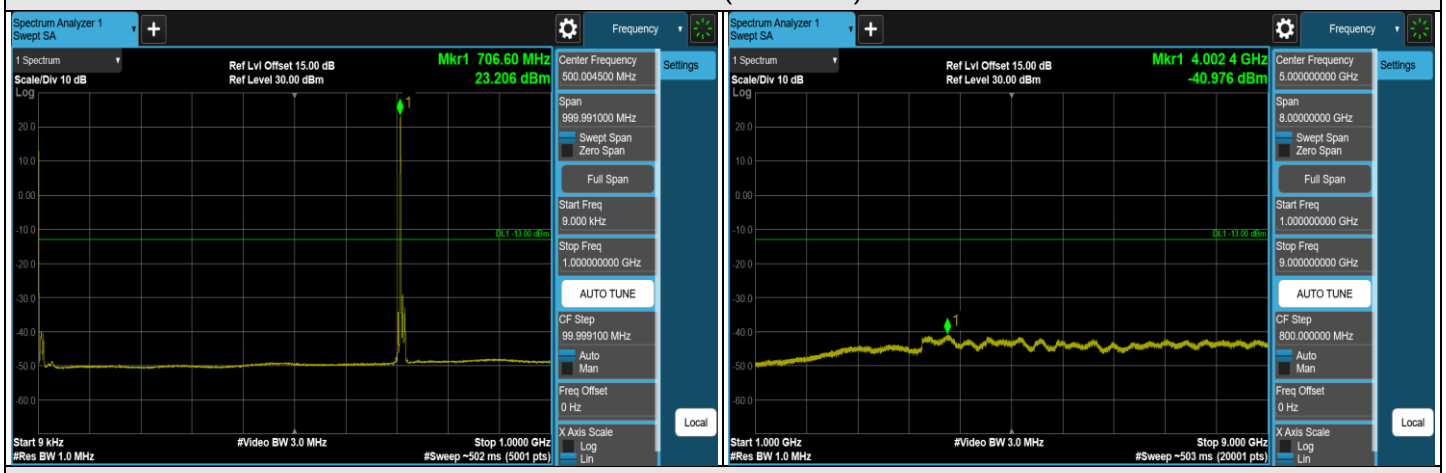
LTE Band 12, Channel Bandwidth: 10 MHz



CH 23060 (704MHz)

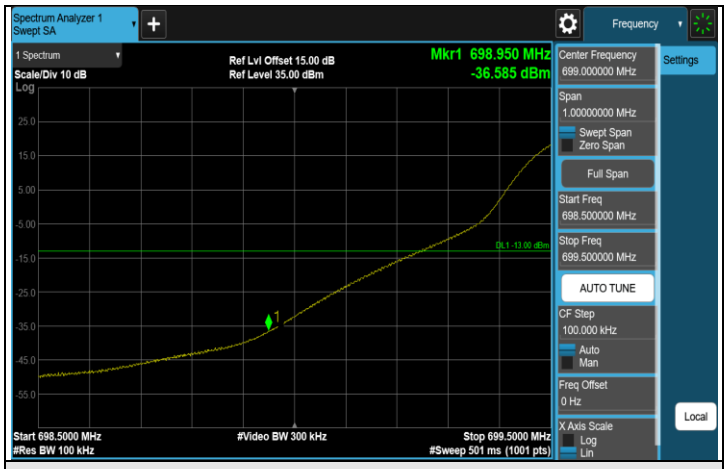


CH 23095 (707.5MHz)

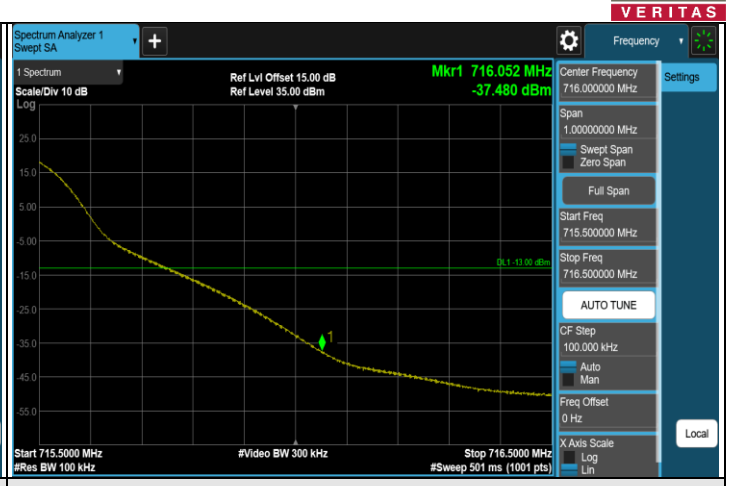


CH 23130 (711MHz)

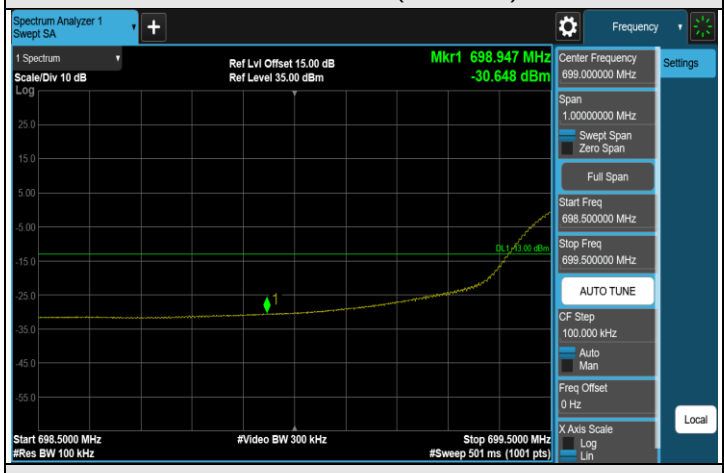
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



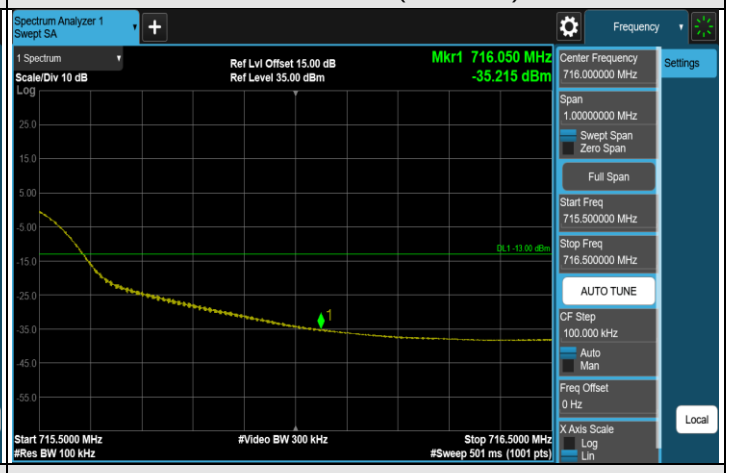
1RB CH 23060 (704 MHz)



1RB CH 23130 (711 MHz)



FULL CH 23060 (704 MHz)



FULL CH 23130 (711 MHz)

7.6 Radiated Spurious Emissions below 1GHz

7.6.1 LTE Band 2

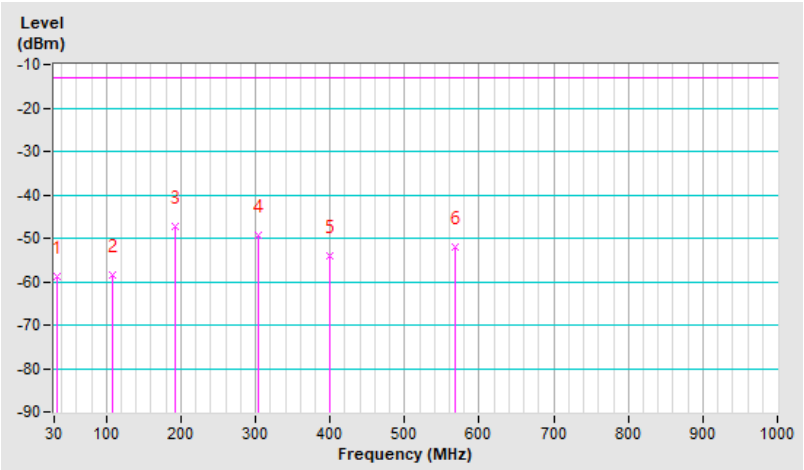
Mode A

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**	23°C, 66% RH
Tested By	TitanHSU		

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	34.85	-58.94	-13.00	-45.94	2.00 H	18	50.57	-109.51
2	108.57	-58.60	-13.00	-45.60	1.49 H	266	52.96	-111.56
3	191.99	-47.35	-13.00	-34.35	1.49 H	274	64.10	-111.45
4	303.54	-49.18	-13.00	-36.18	1.00 H	249	58.67	-107.85
5	399.57	-54.07	-13.00	-41.07	1.00 H	132	51.50	-105.57
6	568.35	-51.90	-13.00	-38.90	1.49 H	78	49.96	-101.86

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

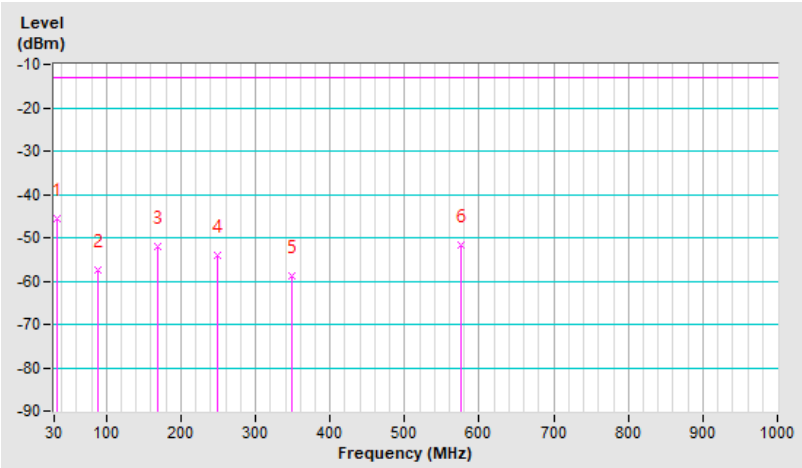


RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	**Channel**	CH 18900：1880 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 66% RH
Tested By	TitanHSU		

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	34.85	-45.75	-13.00	-32.75	1.01 V	311	63.76	-109.51
2	88.20	-57.59	-13.00	-44.59	1.51 V	303	56.74	-114.33
3	168.71	-52.13	-13.00	-39.13	1.01 V	191	56.57	-108.70
4	249.22	-53.94	-13.00	-40.94	1.01 V	2	55.90	-109.84
5	348.16	-58.71	-13.00	-45.71	1.01 V	152	48.29	-107.00
6	575.14	-51.57	-13.00	-38.57	1.51 V	206	50.07	-101.64

Remarks:

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



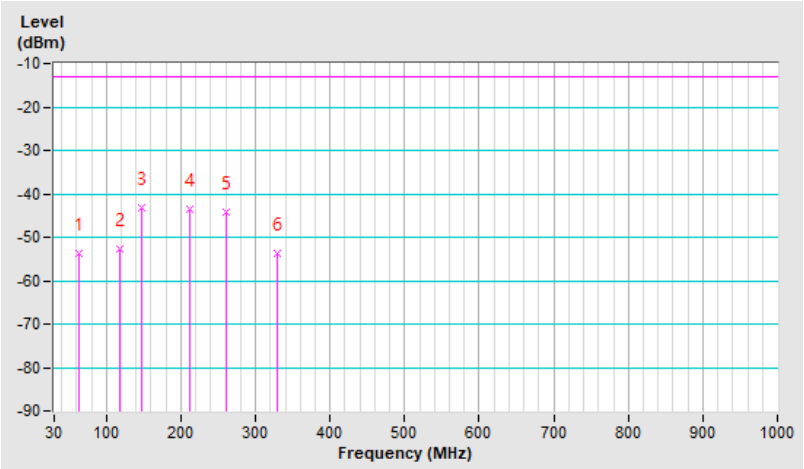
Mode B

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	23°C, 66% RH
Tested By	TitanHSU		

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	63.95	-53.78	-13.00	-40.78	2.00 H	149	56.16	-109.94
2	118.27	-52.68	-13.00	-39.68	1.51 H	266	58.05	-110.73
3	147.37	-43.09	-13.00	-30.09	2.00 H	63	65.26	-108.35
4	212.36	-43.66	-13.00	-30.66	1.51 H	90	68.46	-112.12
5	259.89	-44.21	-13.00	-31.21	1.01 H	59	65.29	-109.50
6	329.73	-53.79	-13.00	-40.79	1.01 H	211	53.23	-107.02

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

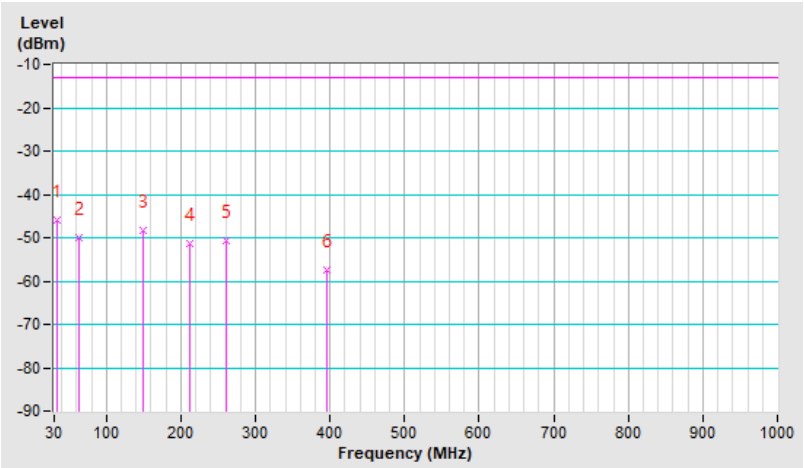


RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	**Channel**	CH 18900：1880 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 66% RH
Tested By	TitanHSU		

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	34.85	-45.86	-13.00	-32.86	1.00 V	345	63.65	-109.51
2	62.98	-49.98	-13.00	-36.98	1.00 V	235	59.48	-109.46
3	148.34	-48.24	-13.00	-35.24	1.49 V	165	60.16	-108.40
4	211.39	-51.21	-13.00	-38.21	1.49 V	48	60.93	-112.14
5	259.89	-50.52	-13.00	-37.52	1.00 V	11	58.98	-109.50
6	395.69	-57.30	-13.00	-44.30	1.00 V	148	48.32	-105.62

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.6.2 LTE Band 4

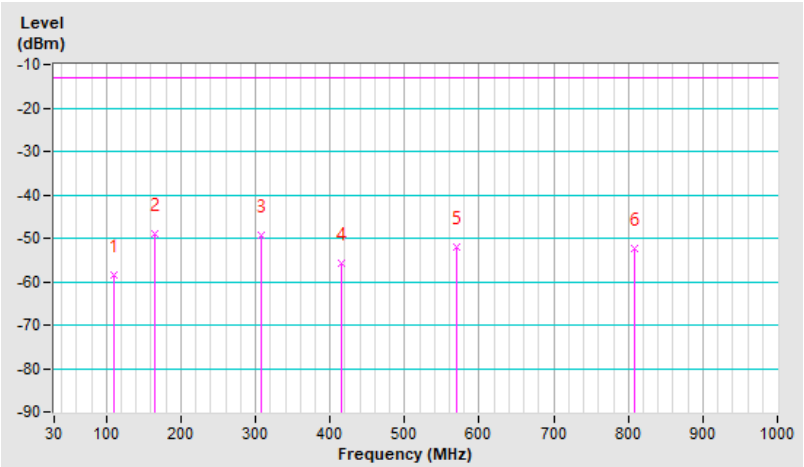
Mode A

RF Mode	LTE Band 4 Channel Bandwidth: 20MHz	**Channel**	CH 20300：1745 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 66% RH
Tested By	TitanHSU		

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	110.51	-58.44	-13.00	-45.44	1.50 H	273	53.05	-111.49
2	164.83	-48.83	-13.00	-35.83	1.50 H	264	59.72	-108.55
3	307.42	-49.47	-13.00	-36.47	1.01 H	250	58.27	-107.74
4	416.06	-55.93	-13.00	-42.93	1.01 H	135	49.26	-105.19
5	569.32	-51.99	-13.00	-38.99	1.50 H	80	49.85	-101.84
6	807.94	-52.28	-13.00	-39.28	1.01 H	127	45.39	-97.67

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

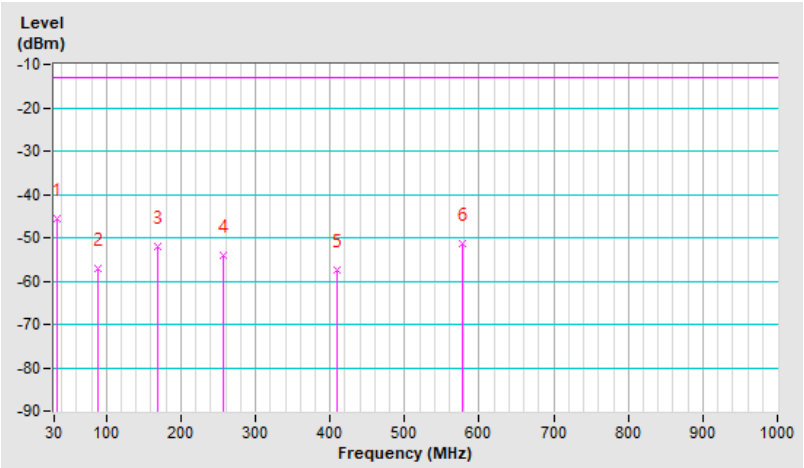


RF Mode	LTE Band 4 Channel Bandwidth: 20MHz	**Channel**	CH 20300：1745 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 66% RH
Tested By	TitanHSU		

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	34.85	-45.57	-13.00	-32.57	1.00 V	210	63.94	-109.51
2	89.17	-57.10	-13.00	-44.10	1.49 V	344	57.20	-114.30
3	169.68	-52.07	-13.00	-39.07	1.00 V	182	56.70	-108.77
4	256.01	-54.03	-13.00	-41.03	1.00 V	356	55.65	-109.68
5	409.27	-57.40	-13.00	-44.40	1.00 V	148	47.93	-105.33
6	577.08	-51.49	-13.00	-38.49	1.00 V	109	50.09	-101.58

Remarks:

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



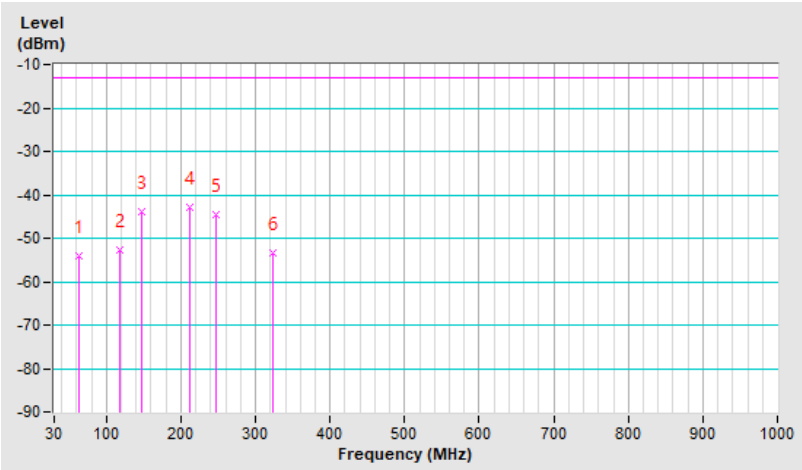
Mode B

RF Mode	LTE Band 4 Channel Bandwidth: 20MHz	Channel	CH 20300：1745 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	TitanHSU		

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	62.98	-54.19	-13.00	-41.19	1.49 H	182	55.27	-109.46
2	117.30	-52.59	-13.00	-39.59	1.49 H	272	58.22	-110.81
3	146.40	-44.04	-13.00	-31.04	1.49 H	75	64.33	-108.37
4	**212.36**	**-42.99**	**-13.00**	**-29.99**	**1.49 H**	**94**	**69.13**	**-112.12**
5	247.28	-44.44	-13.00	-31.44	1.00 H	249	65.44	-109.88
6	323.91	-53.54	-13.00	-40.54	1.00 H	210	53.64	-107.18

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

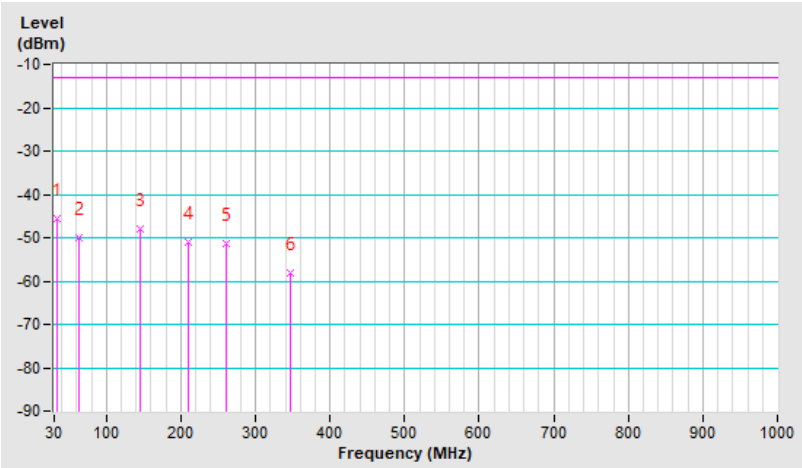


RF Mode	LTE Band 4 Channel Bandwidth: 20MHz	**Channel**	CH 20300：1745 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 66% RH
Tested By	TitanHSU		

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	34.85	-45.54	-13.00	-32.54	1.01 V	292	63.97	-109.51
2	62.98	-50.09	-13.00	-37.09	1.01 V	304	59.37	-109.46
3	145.43	-47.82	-13.00	-34.82	1.01 V	161	60.63	-108.45
4	210.42	-51.17	-13.00	-38.17	1.50 V	61	60.98	-112.15
5	259.89	-51.35	-13.00	-38.35	1.01 V	2	58.15	-109.50
6	347.19	-58.04	-13.00	-45.04	1.50 V	204	48.97	-107.01

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



7.6.3 LTE Band 12

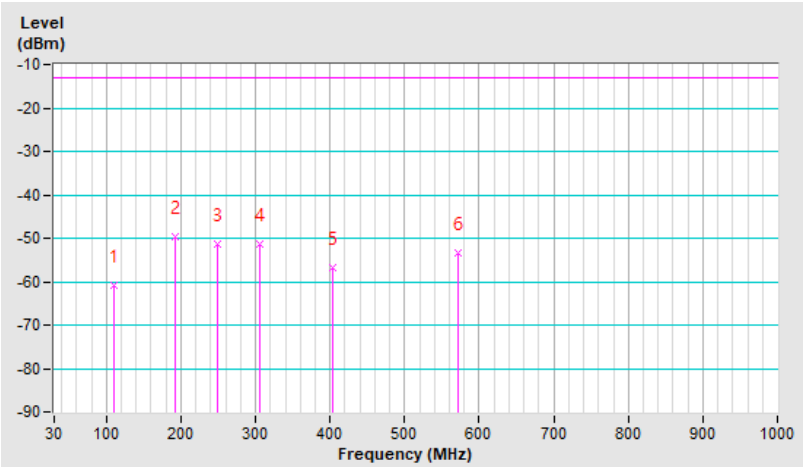
Mode A

RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	**Channel**	CH 23130：711 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 66% RH
Tested By	TitanHSU		

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	109.54	-60.72	-13.00	-47.72	1.49 H	246	52.96	-113.68
2	191.99	-49.70	-13.00	-36.70	1.49 H	275	63.90	-113.60
3	249.22	-51.28	-13.00	-38.28	1.00 H	316	60.71	-111.99
4	306.45	-51.29	-13.00	-38.29	1.00 H	253	58.63	-109.92
5	404.42	-56.91	-13.00	-43.91	1.00 H	134	50.71	-107.62
6	571.26	-53.49	-13.00	-40.49	1.49 H	78	50.44	-103.93

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

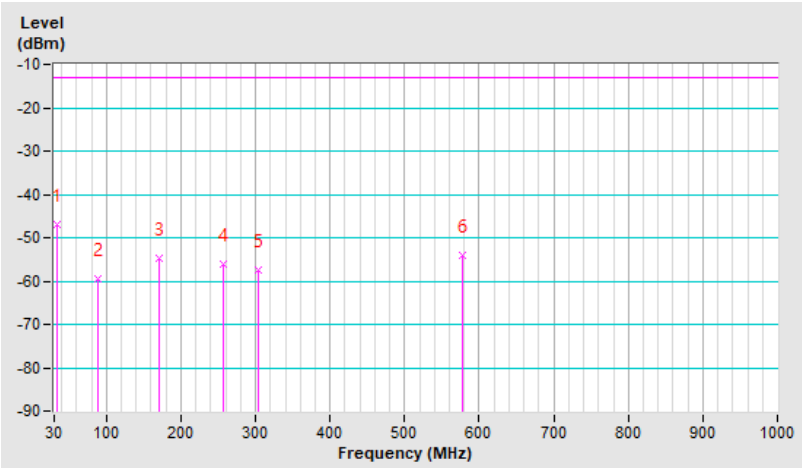


RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	**Channel**	CH 23130：711 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 66% RH
Tested By	TitanHSU		

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	34.85	-47.08	-13.00	-34.08	1.01 V	297	64.58	-111.66
2	88.20	-59.56	-13.00	-46.56	1.50 V	322	56.92	-116.48
3	170.65	-54.67	-13.00	-41.67	1.01 V	189	56.28	-110.95
4	256.01	-56.25	-13.00	-43.25	1.01 V	5	55.58	-111.83
5	303.54	-57.33	-13.00	-44.33	1.50 V	229	52.67	-110.00
6	578.05	-53.95	-13.00	-40.95	1.01 V	117	49.74	-103.69

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



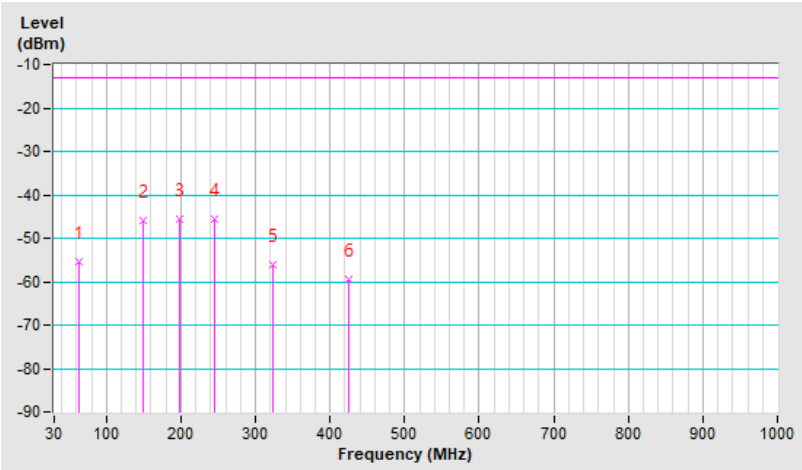
Mode B

RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	Channel	CH 23130：711 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	TitanHSU		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	63.95	-55.45	-13.00	-42.45	1.50 H	160	56.64	-112.09
2	149.31	-45.89	-13.00	-32.89	1.50 H	65	64.58	-110.47
3	198.78	-45.64	-13.00	-32.64	1.50 H	308	68.57	-114.21
4	245.34	-45.73	-13.00	-32.73	1.50 H	73	66.33	-112.06
5	322.94	-56.01	-13.00	-43.01	1.01 H	202	53.35	-109.36
6	424.79	-59.47	-13.00	-46.47	1.01 H	330	47.56	-107.03

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

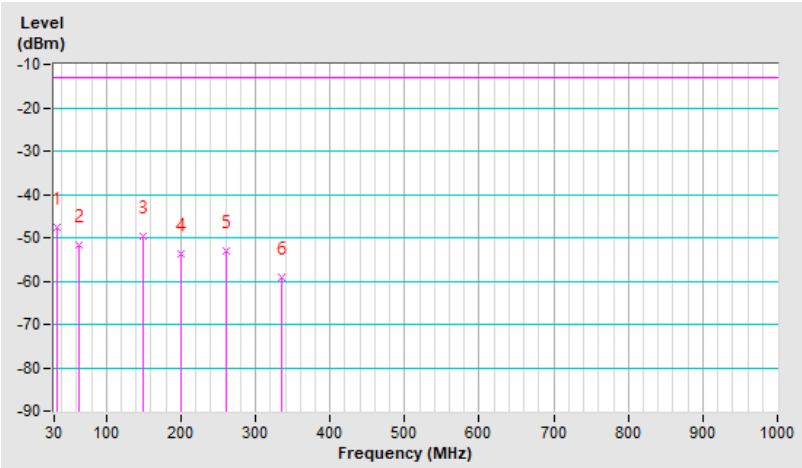


RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	**Channel**	CH 23130：711 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 66% RH
Tested By	TitanHSU		

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	34.85	-47.55	-13.00	-34.55	1.00 V	283	64.11	-111.66
2	62.98	-51.62	-13.00	-38.62	1.00 V	267	59.99	-111.61
3	149.31	-49.56	-13.00	-36.56	1.00 V	173	60.91	-110.47
4	200.72	-53.88	-13.00	-40.88	1.49 V	83	60.37	-114.25
5	260.86	-53.15	-13.00	-40.15	1.49 V	2	58.46	-111.61
6	334.58	-59.15	-13.00	-46.15	1.49 V	210	49.98	-109.13

Remarks:

1. ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.7 Radiated Spurious Emissions above 1GHz

7.7.1 LTE Band 2

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

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	-42.38	-13.00	-29.38	1.51 H	42	52.70	-95.08
2	16656.30	-25.37	-13.00	-12.37	1.83 H	342	58.60	-83.97
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	3701.40	-41.07	-13.00	-28.07	1.04 V	9	54.01	-95.08
2	16656.30	-26.02	-13.00	-13.02	1.76 V	343	57.95	-83.97

Remarks:

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

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

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	-41.90	-13.00	-28.90	1.50 H	40	52.92	-94.82
2	16920.00	-25.35	-13.00	-12.35	1.78 H	346	58.95	-84.30
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	3760.00	-40.54	-13.00	-27.54	1.03 V	6	54.28	-94.82
2	16920.00	-26.23	-13.00	-13.23	1.69 V	349	58.07	-84.30

Remarks:

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

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

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	-41.28	-13.00	-28.28	1.51 H	44	53.29	-94.57
2	17183.70	-25.46	-13.00	-12.46	1.83 H	345	58.86	-84.32
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	3818.60	-40.64	-13.00	-27.64	1.08 V	10	53.93	-94.57
2	17183.70	-26.90	-13.00	-13.90	1.71 V	349	57.42	-84.32

Remarks:

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

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

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	-42.43	-13.00	-29.43	1.51 H	43	52.63	-95.06
2	16672.50	-25.23	-13.00	-12.23	1.86 H	341	58.67	-83.90
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	-41.53	-13.00	-28.53	1.07 V	10	53.53	-95.06
2	16672.50	-26.33	-13.00	-13.33	1.76 V	343	57.57	-83.90

Remarks:

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

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

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	-42.28	-13.00	-29.28	1.53 H	43	52.54	-94.82
2	16920.00	-25.60	-13.00	-12.60	1.82 H	342	58.70	-84.30
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	3760.00	-40.76	-13.00	-27.76	1.02 V	11	54.06	-94.82
2	16920.00	-26.19	-13.00	-13.19	1.69 V	348	58.11	-84.30

Remarks:

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

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

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	-41.44	-13.00	-28.44	1.52 H	46	53.15	-94.59
2	17167.50	-25.36	-13.00	-12.36	1.84 H	345	58.95	-84.31
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	-41.08	-13.00	-28.08	1.06 V	6	53.51	-94.59
2	17167.50	-26.50	-13.00	-13.50	1.70 V	345	57.81	-84.31

Remarks:

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

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

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	-42.50	-13.00	-29.50	1.46 H	45	52.50	-95.00
2	16740.00	-25.19	-13.00	-12.19	1.88 H	345	58.62	-83.81
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	-41.01	-13.00	-28.01	1.08 V	7	53.99	-95.00
2	16740.00	-26.31	-13.00	-13.31	1.70 V	343	57.50	-83.81

Remarks:

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

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

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	-42.27	-13.00	-29.27	1.46 H	44	52.55	-94.82
2	**16920.00**	**-25.11**	**-13.00**	**-12.11**	**1.82 H**	**340**	**59.19**	**-84.30**
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	3760.00	-40.59	-13.00	-27.59	1.02 V	6	54.23	-94.82
2	16920.00	-26.77	-13.00	-13.77	1.67 V	345	57.53	-84.30

Remarks:

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

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

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	-42.07	-13.00	-29.07	1.50 H	41	52.57	-94.64
2	17100.00	-25.50	-13.00	-12.50	1.86 H	341	58.79	-84.29
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	-40.59	-13.00	-27.59	1.00 V	6	54.05	-94.64
2	17100.00	-26.76	-13.00	-13.76	1.73 V	343	57.53	-84.29

Remarks:

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

7.7.2 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**	23°C, 66% RH
Tested By	Edison Lee		

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	-48.17	-13.00	-35.17	1.13 H	325	47.87	-96.04
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	3421.40	-47.04	-13.00	-34.04	1.11 V	146	49.00	-96.04

Remarks:

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

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

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	-48.18	-13.00	-35.18	1.09 H	327	47.78	-95.96
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	3465.00	-46.69	-13.00	-33.69	1.06 V	144	49.27	-95.96

Remarks:

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

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

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	-47.56	-13.00	-34.56	1.15 H	327	48.21	-95.77
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	3508.60	-46.80	-13.00	-33.80	1.13 V	148	48.97	-95.77

Remarks:

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

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

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	-47.68	-13.00	-34.68	1.12 H	328	48.35	-96.03
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	3425.00	-46.70	-13.00	-33.70	1.13 V	150	49.33	-96.03

Remarks:

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

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

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	-47.44	-13.00	-34.44	1.12 H	321	48.52	-95.96
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	3465.00	-47.08	-13.00	-34.08	1.08 V	146	48.88	-95.96

Remarks:

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

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

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	-47.67	-13.00	-34.67	1.11 H	321	48.12	-95.79
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	3505.00	-47.05	-13.00	-34.05	1.14 V	146	48.74	-95.79

Remarks:

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

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

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	-47.57	-13.00	-34.57	1.07 H	321	48.46	-96.03
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	3440.00	-47.43	-13.00	-34.43	1.06 V	151	48.60	-96.03

Remarks:

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

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

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	-47.97	-13.00	-34.97	1.07 H	325	47.99	-95.96
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	3465.00	-47.29	-13.00	-34.29	1.10 V	146	48.67	-95.96

Remarks:

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

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

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	-47.86	-13.00	-34.86	1.14 H	321	47.99	-95.85
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	**3490.00**	**-46.61**	**-13.00**	**-33.61**	**1.07 V**	**150**	**49.24**	**-95.85**

Remarks:

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

7.7.3 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**	23°C, 66% RH
Tested By	Edison Lee		

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	-48.37	-13.00	-35.37	1.59 H	158	55.47	-103.84
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1399.40	-50.90	-13.00	-37.90	1.85 V	252	52.94	-103.84

Remarks:

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

RF Mode	LTE Band 12 Channel Bandwidth: 1.4MHz	**Channel**	CH 23095：707.5 MHz
Frequency Range	1 GHz ~ 18 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 66% RH
Tested By	Edison Lee		

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	-48.21	-13.00	-35.21	1.63 H	155	55.57	-103.78
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1415.00	-50.38	-13.00	-37.38	1.86 V	259	53.40	-103.78

Remarks:

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

RF Mode	LTE Band 12 Channel Bandwidth: 1.4MHz	**Channel**	CH 23173：715.3 MHz
Frequency Range	1 GHz ~ 18 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 66% RH
Tested By	Edison Lee		

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	-48.04	-13.00	-35.04	1.63 H	159	55.67	-103.71
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1430.60	-50.43	-13.00	-37.43	1.83 V	258	53.28	-103.71

Remarks:

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

RF Mode	LTE Band 12 Channel Bandwidth: 5MHz	**Channel**	CH 23035：701.5 MHz
Frequency Range	1 GHz ~ 18 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 66% RH
Tested By	Edison Lee		

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	-48.03	-13.00	-35.03	1.59 H	152	55.79	-103.82
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1403.00	-50.82	-13.00	-37.82	1.80 V	255	53.00	-103.82

Remarks:

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

RF Mode	LTE Band 12 Channel Bandwidth: 5MHz	**Channel**	CH 23095：707.5 MHz
Frequency Range	1 GHz ~ 18 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 66% RH
Tested By	Edison Lee		

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	-47.84	-13.00	-34.84	1.58 H	152	55.94	-103.78
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1415.00	-50.44	-13.00	-37.44	1.85 V	258	53.34	-103.78

Remarks:

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

RF Mode	LTE Band 12 Channel Bandwidth: 5MHz	**Channel**	CH 23155：713.5 MHz
Frequency Range	1 GHz ~ 18 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 66% RH
Tested By	Edison Lee		

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	-47.44	-13.00	-34.44	1.55 H	158	56.28	-103.72
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1427.00	-50.31	-13.00	-37.31	1.88 V	258	53.41	-103.72

Remarks:

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

RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	**Channel**	CH 23060：704 MHz
Frequency Range	1 GHz ~ 18 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 66% RH
Tested By	Edison Lee		

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	-47.93	-13.00	-34.93	1.55 H	156	55.88	-103.81
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1408.00	-50.28	-13.00	-37.28	1.82 V	252	53.53	-103.81

Remarks:

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

RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	**Channel**	CH 23095：707.5 MHz
Frequency Range	1 GHz ~ 18 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 66% RH
Tested By	Edison Lee		

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	-47.80	-13.00	-34.80	1.59 H	153	55.98	-103.78
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1415.00	-50.13	-13.00	-37.13	1.81 V	258	53.65	-103.78

Remarks:

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

RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	**Channel**	CH 23130：711 MHz
Frequency Range	1 GHz ~ 18 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23°C, 66% RH
Tested By	Edison Lee		

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	-47.34	-13.00	-34.34	1.58 H	155	56.41	-103.75
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**ERP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	1422.00	-50.17	-13.00	-37.17	1.81 V	254	53.58	-103.75

Remarks:

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

7.8 Frequency Stability

Environmental Conditions:	25°C, 60% RH	Tested By:	Naoh Chang

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)
3.00	-0.001	1909.3000030	0.002	-0.001
3.88	0.001	1909.3000030	0.002	0.001
4.55	-0.002	1909.2999960	-0.002	-0.002

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 18607 (1850.7 MHz)		CH 19193 (1909.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1850.7000010	0.001	1909.3000020	0.001
-20	1850.7000010	0.001	1909.2999990	-0.001
-10	1850.6999970	-0.002	1909.2999990	-0.001
0	1850.7000040	0.002	1909.3000020	0.001
10	1850.6999960	-0.002	1909.2999970	-0.002
20	1850.6999990	-0.001	1909.2999980	-0.001
30	1850.6999990	-0.001	1909.2999960	-0.002
40	1850.7000040	0.002	1909.2999990	-0.001
50	1850.7000020	0.001	1909.2999980	-0.001

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)
3.00	1851.4999980	-0.001	1908.4999960	-0.002
3.88	1851.5000020	0.001	1908.4999960	-0.002
4.55	1851.4999990	-0.001	1908.4999990	-0.001

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 18615 (1851.5 MHz)		CH 19185 (1908.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1851.4999990	-0.001	1908.5000010	0.001
-20	1851.5000010	0.001	1908.5000010	0.001
-10	1851.5000040	0.002	1908.5000030	0.002
0	1851.4999980	-0.001	1908.4999970	-0.002
10	1851.4999970	-0.002	1908.4999970	-0.002
20	1851.4999970	-0.002	1908.4999970	-0.002
30	1851.4999970	-0.002	1908.5000020	0.001
40	1851.5000010	0.001	1908.4999980	-0.001
50	1851.4999990	-0.001	1908.4999960	-0.002

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)
3.00	1852.5000030	0.002	1907.4999980	-0.001
3.88	1852.4999980	-0.001	1907.5000010	0.001
4.55	1852.4999990	-0.001	1907.4999990	-0.001

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 18625 (1852.5 MHz)		CH 19175 (1907.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1852.4999980	-0.001	1907.5000010	0.001
-20	1852.5000020	0.001	1907.4999960	-0.002
-10	1852.5000020	0.001	1907.4999960	-0.002
0	1852.4999980	-0.001	1907.5000040	0.002
10	1852.5000030	0.002	1907.4999990	-0.001
20	1852.4999990	-0.001	1907.4999970	-0.002
30	1852.4999960	-0.002	1907.5000020	0.001
40	1852.5000020	0.001	1907.4999970	-0.002
50	1852.4999970	-0.002	1907.4999960	-0.002

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)
3.00	1854.9999970	-0.002	1905.0000010	0.001
3.88	1855.0000030	0.002	1905.0000020	0.001
4.55	1855.0000040	0.002	1904.9999980	-0.001

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 18650 (1855 MHz)		CH 19150 (1905 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1855.0000010	0.001	1905.0000020	0.001
-20	1854.9999990	-0.001	1905.0000030	0.002
-10	1855.0000030	0.002	1904.9999990	-0.001
0	1854.9999970	-0.002	1904.9999990	-0.001
10	1855.0000040	0.002	1904.9999970	-0.002
20	1854.9999970	-0.002	1905.0000040	0.002
30	1854.9999980	-0.001	1904.9999980	-0.001
40	1855.0000020	0.001	1904.9999970	-0.002
50	1855.0000010	0.001	1904.9999990	-0.001

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)
3.00	1857.5000030	0.002	1902.4999960	-0.002
3.88	1857.5000040	0.002	1902.5000020	0.001
4.55	1857.4999960	-0.002	1902.4999970	-0.002

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 18675 (1857.5 MHz)		CH 19125 (1902.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1857.5000030	0.002	1902.5000020	0.001
-20	1857.4999970	-0.002	1902.4999980	-0.001
-10	1857.5000040	0.002	1902.5000020	0.001
0	1857.5000030	0.002	1902.5000010	0.001
10	1857.4999980	-0.001	1902.4999990	-0.001
20	1857.4999990	-0.001	1902.4999970	-0.002
30	1857.4999990	-0.001	1902.5000020	0.001
40	1857.5000010	0.001	1902.4999970	-0.002
50	1857.4999960	-0.002	1902.4999990	-0.001

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)
3.00	1860.0000030	0.002	1899.9999960	-0.002
3.88	1859.9999970	-0.002	1899.9999990	-0.001
4.55	1859.9999960	-0.002	1899.9999980	-0.001

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 18700 (1860 MHz)		CH 19100 (1900 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1860.0000030	0.002	1900.0000040	0.002
-20	1860.0000010	0.001	1899.9999970	-0.002
-10	1859.9999970	-0.002	1900.0000030	0.002
0	1859.9999980	-0.001	1900.0000010	0.001
10	1860.0000020	0.001	1900.0000020	0.001
20	1860.0000030	0.002	1899.9999970	-0.002
30	1859.9999990	-0.001	1899.9999970	-0.002
40	1860.0000010	0.001	1900.0000030	0.002
50	1859.9999970	-0.002	1900.0000040	0.002

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)
3.00	1710.7000010	0.001	1754.2999990	-0.001
3.88	1710.6999980	-0.001	1754.2999960	-0.002
4.55	1710.6999990	-0.001	1754.2999970	-0.002

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 19957 (1710.7 MHz)		CH 20393 (1754.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1710.6999960	-0.002	1754.2999970	-0.002
-20	1710.6999960	-0.002	1754.3000030	0.002
-10	1710.7000020	0.001	1754.2999980	-0.001
0	1710.6999980	-0.001	1754.2999970	-0.002
10	1710.7000030	0.002	1754.3000040	0.002
20	1710.7000040	0.002	1754.3000010	0.001
30	1710.7000030	0.002	1754.2999990	-0.001
40	1710.7000030	0.002	1754.2999970	-0.002
50	1710.7000030	0.002	1754.2999960	-0.002

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)
3.00	1711.4999990	-0.001	1753.4999970	-0.002
3.88	1711.5000030	0.002	1753.5000020	0.001
4.55	1711.4999970	-0.002	1753.4999990	-0.001

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 19965 (1711.5 MHz)		CH 20385 (1753.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1711.5000020	0.001	1753.5000030	0.002
-20	1711.5000010	0.001	1753.4999970	-0.002
-10	1711.5000020	0.001	1753.4999960	-0.002
0	1711.4999990	-0.001	1753.4999970	-0.002
10	1711.5000040	0.002	1753.5000020	0.001
20	1711.4999970	-0.002	1753.5000030	0.002
30	1711.5000030	0.002	1753.4999960	-0.002
40	1711.5000020	0.001	1753.5000040	0.002
50	1711.4999980	-0.001	1753.5000030	0.002

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)
3.00	1712.5000020	0.001	1752.4999960	-0.002
3.88	1712.5000010	0.001	1752.4999990	-0.001
4.55	1712.4999980	-0.001	1752.4999960	-0.002

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 19975 (1712.5 MHz)		CH 20375 (1752.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1712.4999990	-0.001	1752.5000030	0.002
-20	1712.5000010	0.001	1752.5000010	0.001
-10	1712.4999960	-0.002	1752.4999990	-0.001
0	1712.4999990	-0.001	1752.5000030	0.002
10	1712.5000040	0.002	1752.5000040	0.002
20	1712.5000020	0.001	1752.5000020	0.001
30	1712.4999980	-0.001	1752.4999960	-0.002
40	1712.5000010	0.001	1752.4999960	-0.002
50	1712.4999990	-0.001	1752.5000040	0.002

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)
3.00	1715.0000020	0.001	1750.0000040	0.002
3.88	1715.0000040	0.002	1749.9999980	-0.001
4.55	1715.0000030	0.002	1749.9999990	-0.001

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 20000 (1715 MHz)		CH 20350 (1750 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1714.9999980	-0.001	1749.9999980	-0.001
-20	1715.0000010	0.001	1750.0000020	0.001
-10	1714.9999960	-0.002	1750.0000010	0.001
0	1715.0000010	0.001	1750.0000020	0.001
10	1715.0000010	0.001	1750.0000040	0.002
20	1715.0000040	0.002	1750.0000030	0.002
30	1714.9999970	-0.002	1750.0000040	0.002
40	1714.9999990	-0.001	1749.9999960	-0.002
50	1714.9999980	-0.001	1749.9999990	-0.001

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)
3.00	1717.5000020	0.001	1747.5000010	0.001
3.88	1717.4999990	-0.001	1747.5000030	0.002
4.55	1717.4999970	-0.002	1747.5000040	0.002

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 20025 (1717.5 MHz)		CH 20325 (1747.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1717.4999980	-0.001	1747.5000010	0.001
-20	1717.5000010	0.001	1747.4999960	-0.002
-10	1717.4999990	-0.001	1747.5000040	0.002
0	1717.4999960	-0.002	1747.4999980	-0.001
10	1717.5000000	0.000	1747.5000040	0.002
20	1717.5000040	0.002	1747.4999960	-0.002
30	1717.4999970	-0.002	1747.4999990	-0.001
40	1717.5000020	0.001	1747.5000020	0.001
50	1717.5000020	0.001	1747.4999970	-0.002

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)
3.00	1719.9999960	-0.002	1745.0000030	0.002
3.88	1720.0000040	0.002	1745.0000040	0.002
4.55	1719.9999990	-0.001	1744.9999980	-0.001

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 20050 (1720 MHz)		CH 20300 (1745 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1720.0000010	0.001	1745.0000020	0.001
-20	1719.9999960	-0.002	1745.0000010	0.001
-10	1719.9999980	-0.001	1745.0000030	0.002
0	1720.0000010	0.001	1744.9999970	-0.002
10	1720.0000010	0.001	1745.0000010	0.001
20	1720.0000010	0.001	1745.0000010	0.001
30	1720.0000040	0.002	1745.0000020	0.001
40	1719.9999960	-0.002	1745.0000020	0.001
50	1719.9999980	-0.001	1744.9999960	-0.002

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)
3.00	699.7000030	0.004	715.3000010	0.001
3.88	699.7000020	0.003	715.2999970	-0.004
4.55	699.6999980	-0.003	715.3000010	0.001

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 23017 (699.7 MHz)		CH 23173 (715.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	699.7000030	0.004	715.2999970	-0.004
-20	699.6999990	-0.001	715.2999970	-0.004
-10	699.7000010	0.001	715.3000020	0.003
0	699.7000010	0.001	715.3000030	0.004
10	699.6999990	-0.001	715.2999960	-0.006
20	699.7000020	0.003	715.2999990	-0.001
30	699.7000010	0.001	715.2999970	-0.004
40	699.6999980	-0.003	715.2999990	-0.001
50	699.6999990	-0.001	715.2999990	-0.001

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)
3.00	700.4999980	-0.003	714.5000040	0.006
3.88	700.4999970	-0.004	714.4999980	-0.003
4.55	700.5000000	0.000	714.5000020	0.003

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 23025 (700.5 MHz)		CH 23165 (714.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	700.4999980	-0.003	714.4999980	-0.003
-20	700.4999970	-0.004	714.4999990	-0.001
-10	700.5000040	0.006	714.5000030	0.004
0	700.4999990	-0.001	714.5000040	0.006
10	700.5000020	0.003	714.4999970	-0.004
20	700.4999970	-0.004	714.5000040	0.006
30	700.5000020	0.003	714.4999970	-0.004
40	700.4999970	-0.004	714.5000010	0.001
50	700.5000010	0.001	714.4999960	-0.006

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)
3.00	701.4999990	-0.001	713.4999980	-0.003
3.88	701.5000020	0.003	713.4999960	-0.006
4.55	701.4999980	-0.003	713.5000010	0.001

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 23035 (701.5 MHz)		CH 23155 (713.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	701.5000020	0.003	713.5000030	0.004
-20	701.5000010	0.001	713.4999990	-0.001
-10	701.5000030	0.004	713.4999990	-0.001
0	701.5000040	0.006	713.5000030	0.004
10	701.5000040	0.006	713.4999970	-0.004
20	701.4999960	-0.006	713.5000010	0.001
30	701.4999990	-0.001	713.4999960	-0.006
40	701.5000010	0.001	713.4999960	-0.006
50	701.4999990	-0.001	713.4999960	-0.006

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)
3.00	704.0000010	0.001	711.0000040	0.006
3.88	703.9999990	-0.001	711.0000010	0.001
4.55	703.9999970	-0.004	710.9999960	-0.006

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 23060 (704 MHz)		CH 23130 (711 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	703.9999970	-0.004	710.9999970	-0.004
-20	703.9999970	-0.004	710.9999990	-0.001
-10	704.0000020	0.003	710.9999990	-0.001
0	704.0000040	0.006	710.9999960	-0.006
10	704.0000010	0.001	711.0000020	0.003
20	703.9999980	-0.003	710.9999990	-0.001
30	703.9999960	-0.006	710.9999980	-0.003
40	703.9999990	-0.001	711.0000010	0.001
50	704.0000030	0.004	711.0000030	0.004

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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