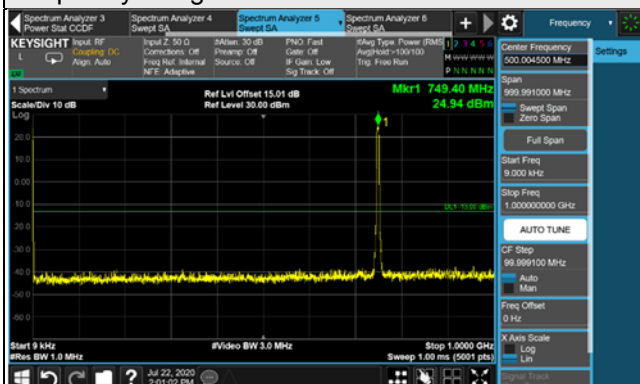


Chain 1

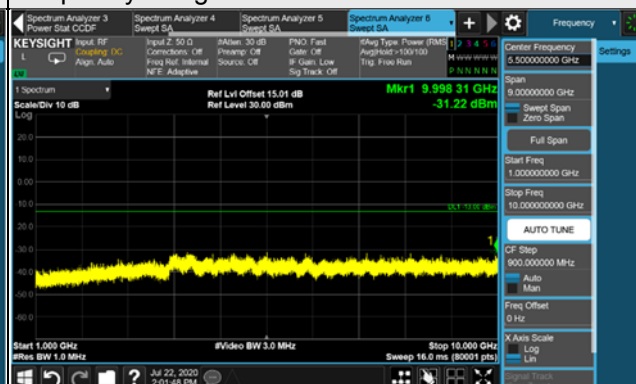
Channel Bandwidth: 5MHz

Channel 5205 (748.5MHz)

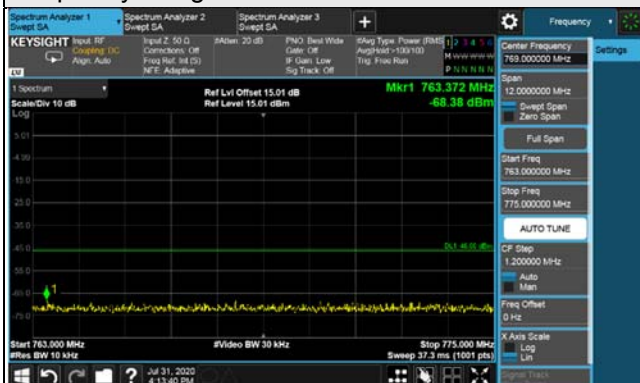
Frequency Range : 9kHz~1GHz



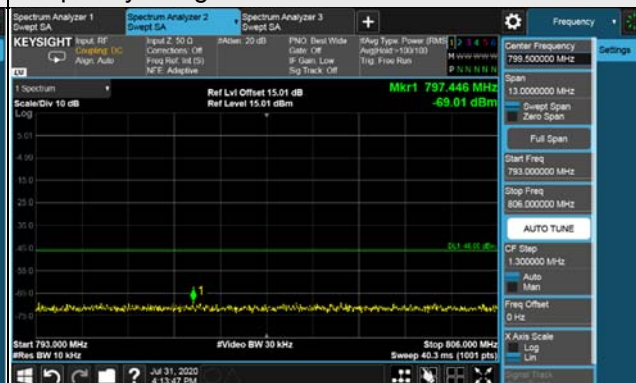
Frequency Range : 1GHz~10GHz



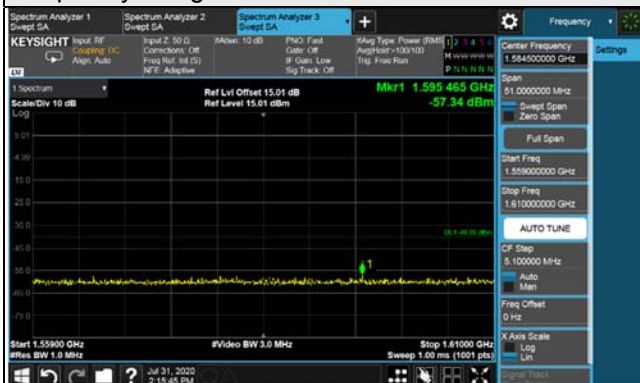
Frequency Range : 763MHz~775MHz



Frequency Range : 793MHz~806MHz

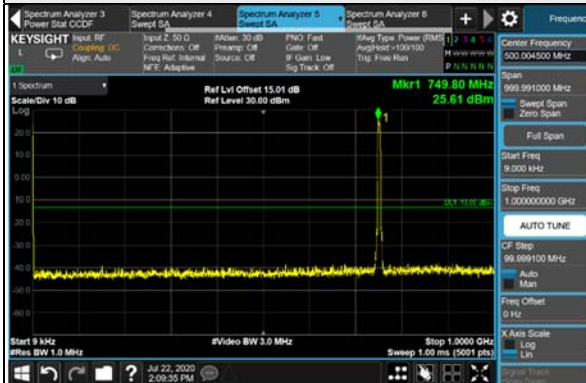


Frequency Range : 1.559GHz~1.161GHz



Channel 5230 (751.0MHz)

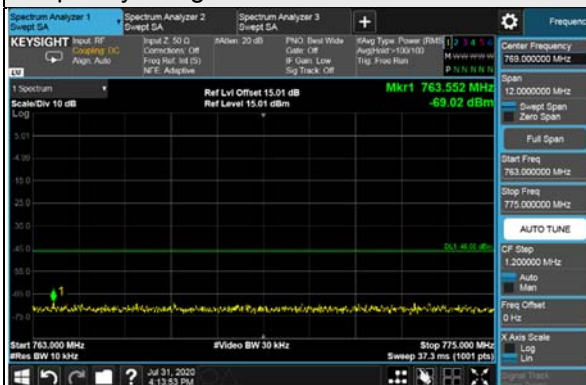
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



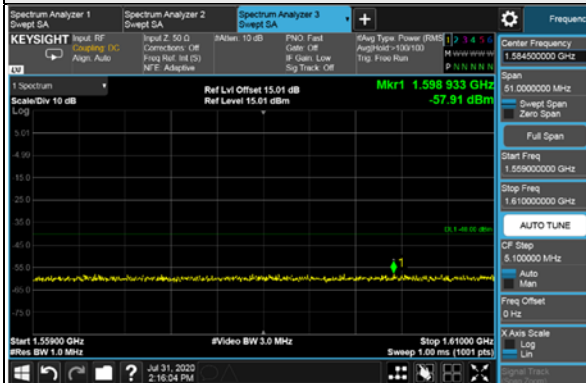
Frequency Range : 763MHz~775MHz



Frequency Range : 793MHz~806MHz

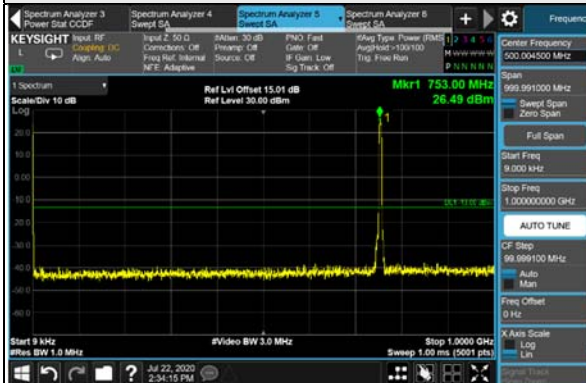


Frequency Range : 1.559GHz~1.161GHz

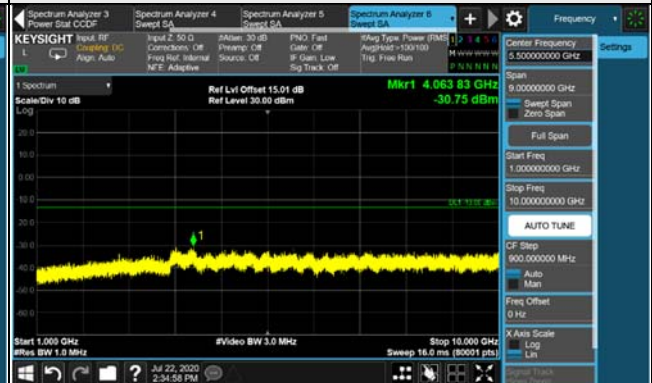


Channel 5255 (753.5MHz)

Frequency Range : 9kHz~1GHz



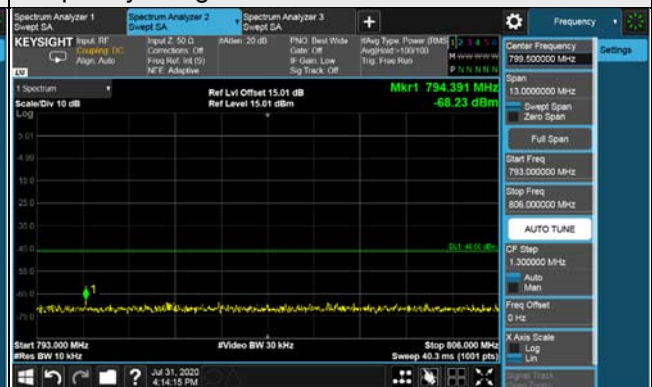
Frequency Range : 1GHz~10GHz



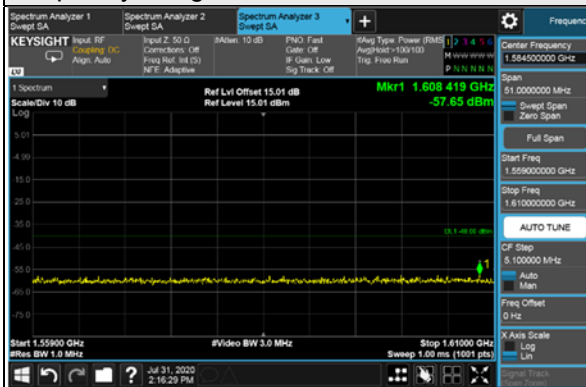
Frequency Range : 763MHz~775MHz



Frequency Range : 793MHz~806MHz



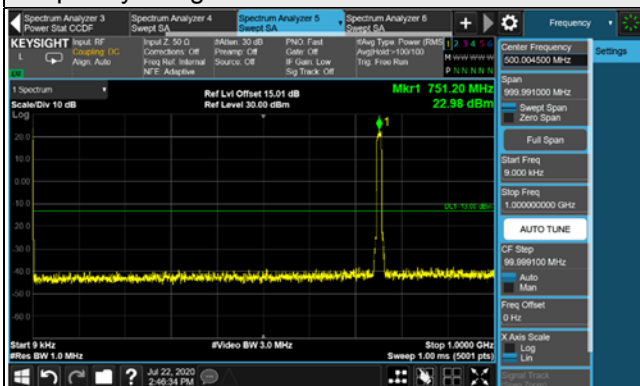
Frequency Range : 1.559GHz~1.161GHz



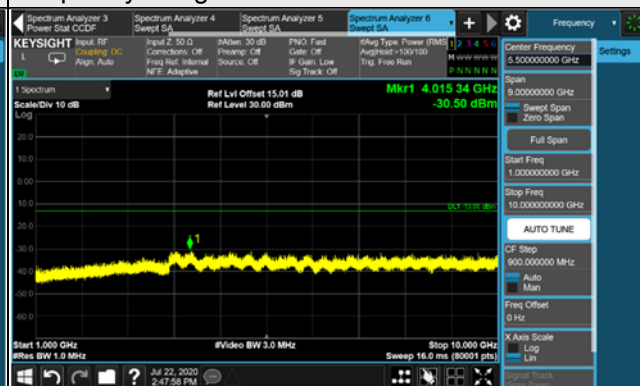
Channel Bandwidth: 10MHz

Channel 5230 (751.0MHz)

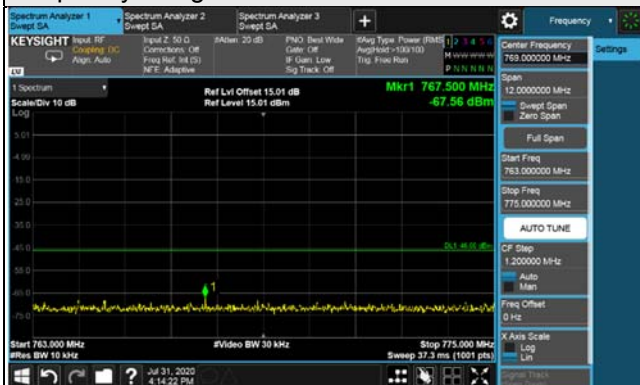
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



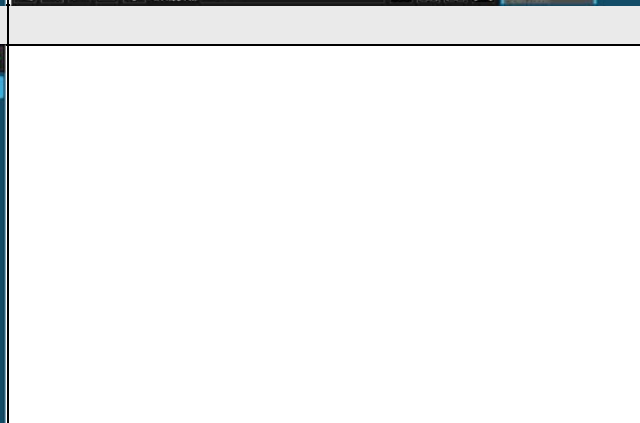
Frequency Range : 763MHz~775MHz



Frequency Range : 793MHz~806MHz



Frequency Range : 1.559GHz~1.161GHz

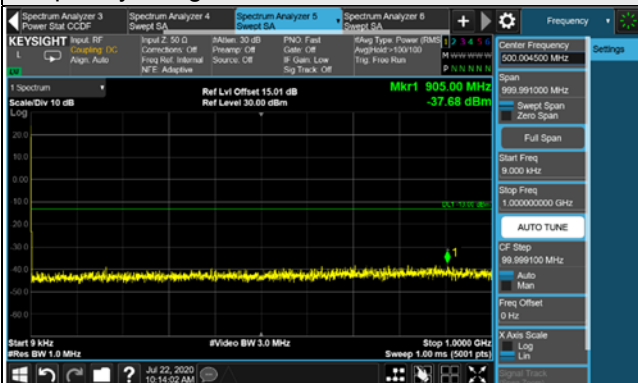


LTE Band 66
Chain 0

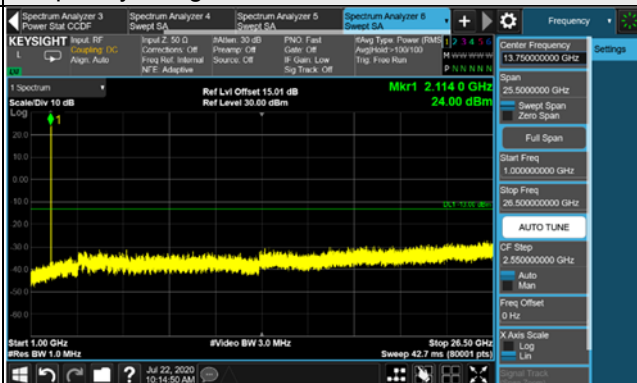
Channel Bandwidth: 5MHz

Channel 66461 (2112.5MHz)

Frequency Range : 9kHz~1GHz

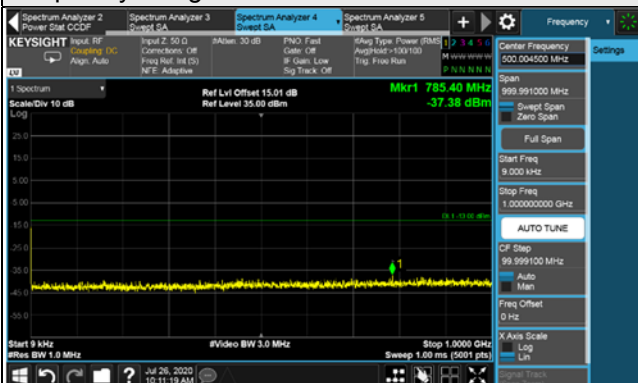


Frequency Range : 1GHz~26.5GHz

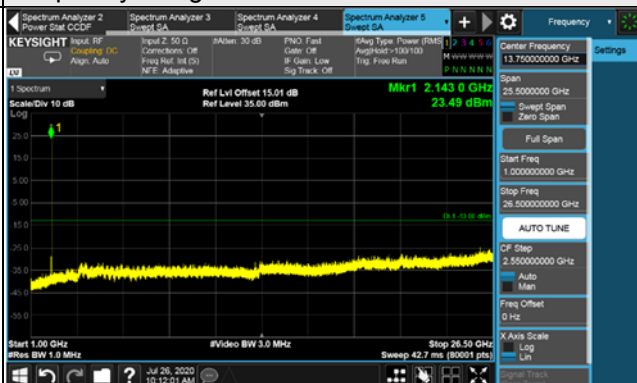


Channel 66786 (2145.0MHz)

Frequency Range : 9kHz~1GHz

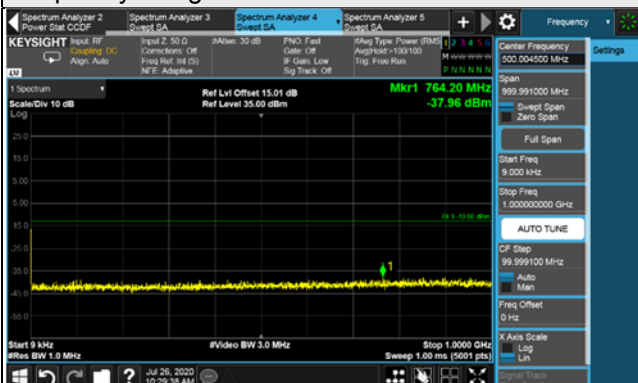


Frequency Range : 1GHz~26.5GHz

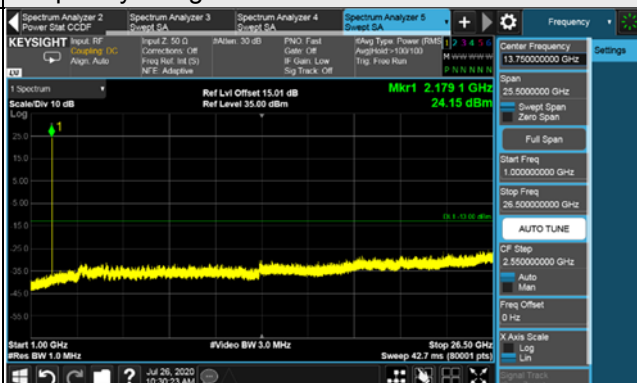


Channel 67111 (2177.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~26.5GHz

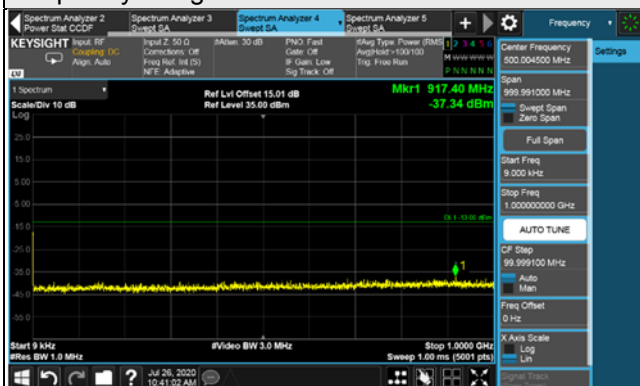


*The 9kHz signal over the limit is from Spectrum.

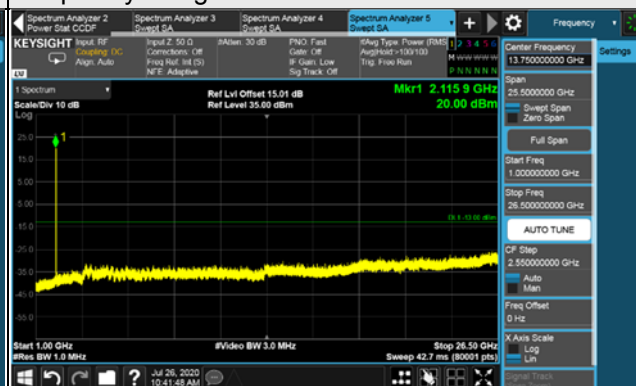
Channel Bandwidth: 10MHz

Channel 66486 (2115.0MHz)

Frequency Range : 9kHz~1GHz

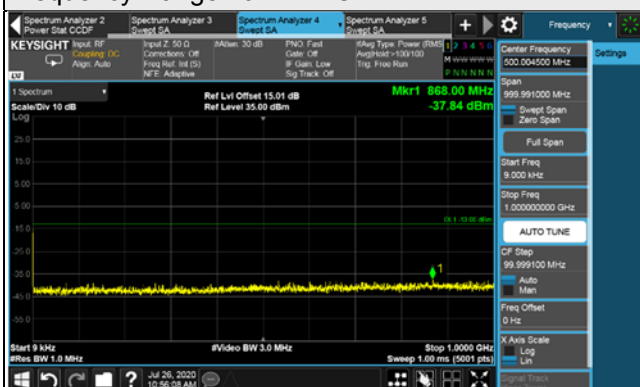


Frequency Range : 1GHz~26.5GHz

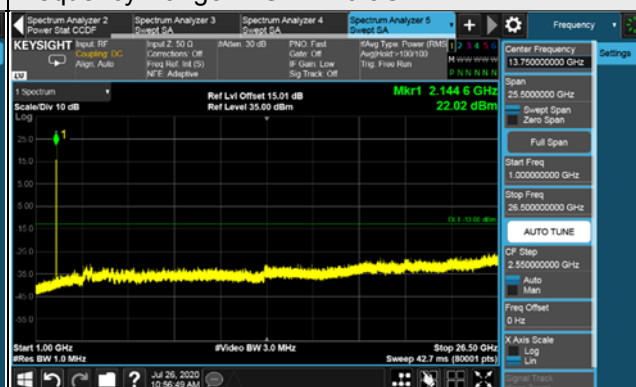


Channel 66786 (2145.0MHz)

Frequency Range : 9kHz~1GHz

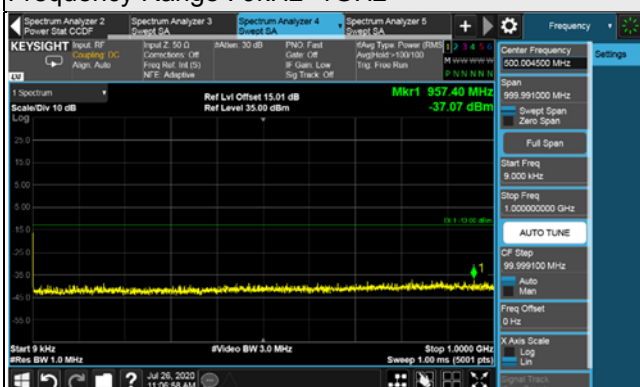


Frequency Range : 1GHz~26.5GHz



Channel 67086 (2175.0MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~26.5GHz

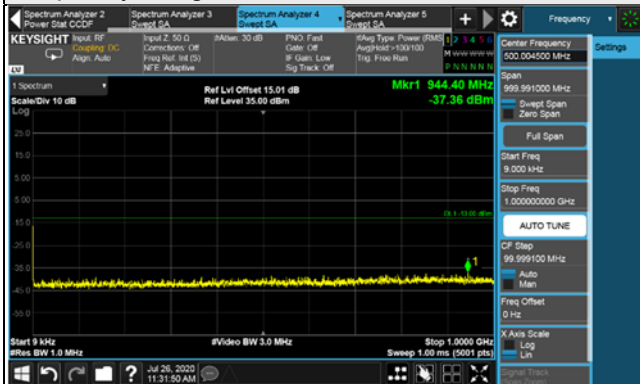


*The 9kHz signal over the limit is from Spectrum.

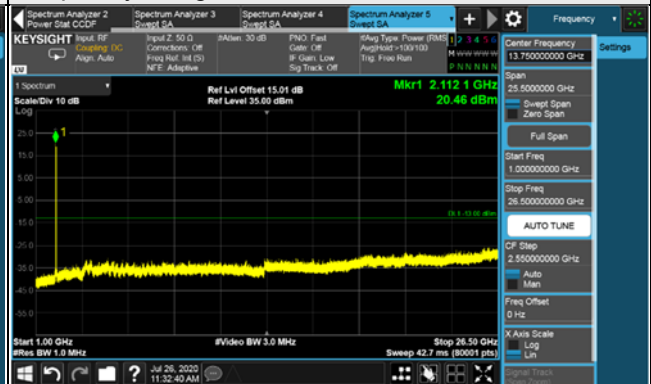
Channel Bandwidth: 15MHz

Channel 66511 (2117.5MHz)

Frequency Range : 9kHz~1GHz

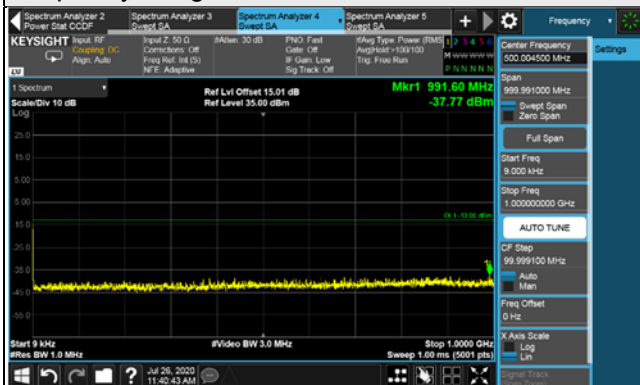


Frequency Range : 1GHz~26.5GHz

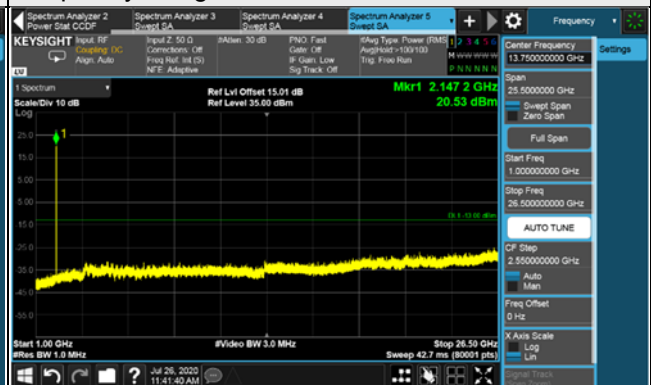


Channel 66786 (2145.0MHz)

Frequency Range : 9kHz~1GHz

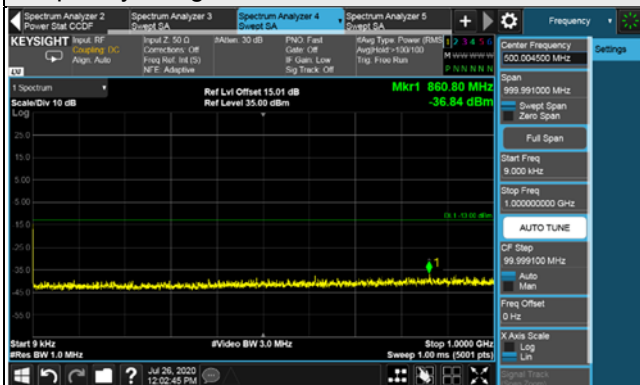


Frequency Range : 1GHz~26.5GHz

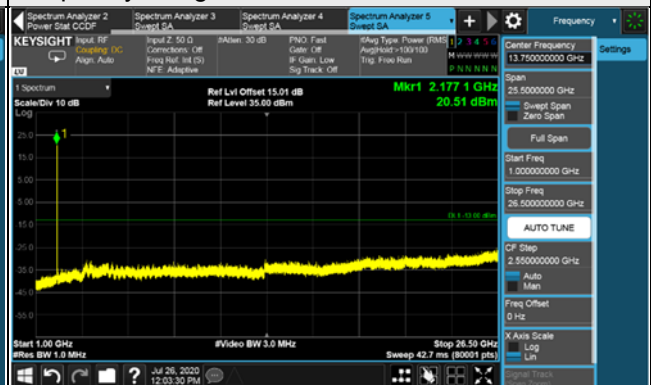


Channel 67061 (2172.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~26.5GHz

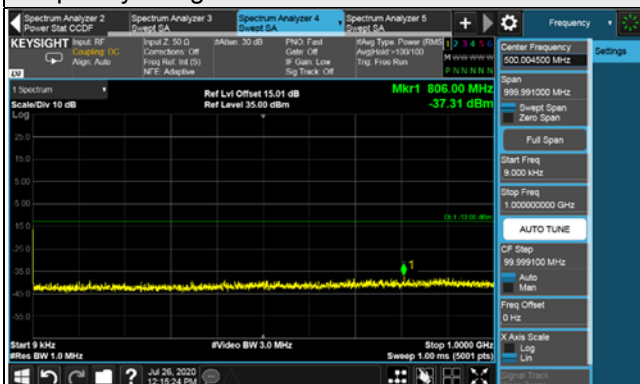


*The 9kHz signal over the limit is from Spectrum.

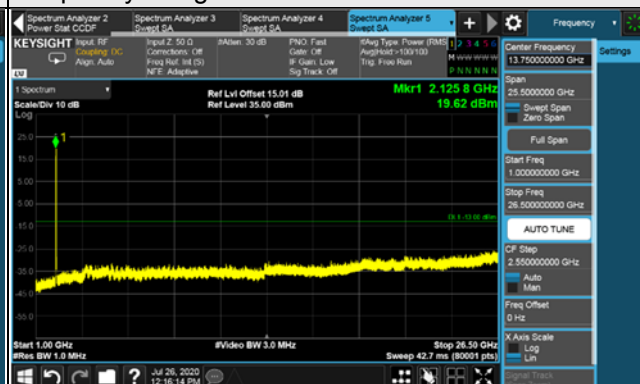
Channel Bandwidth: 20MHz

Channel 66536 (2120.0MHz)

Frequency Range : 9kHz~1GHz

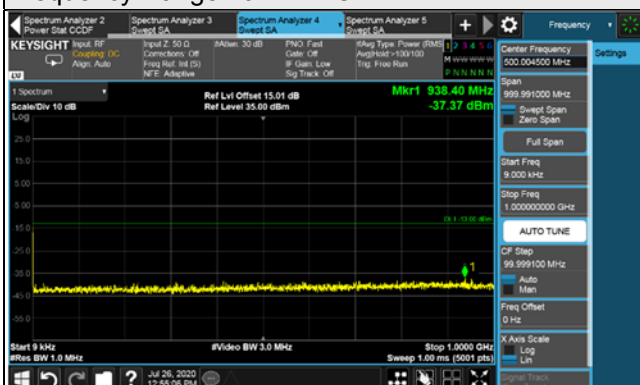


Frequency Range : 1GHz~26.5GHz

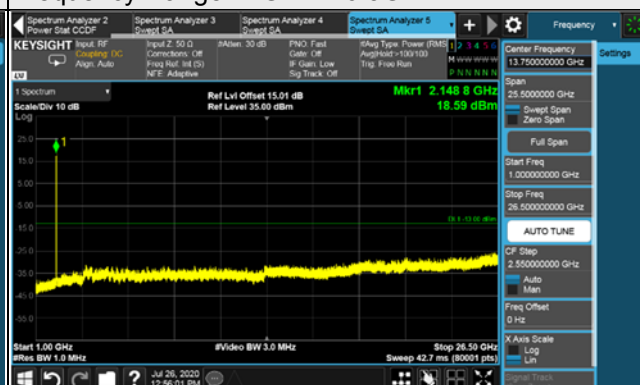


Channel 66786 (2145.0MHz)

Frequency Range : 9kHz~1GHz

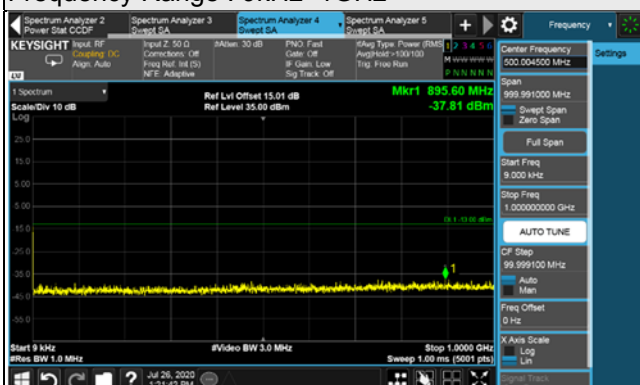


Frequency Range : 1GHz~26.5GHz



Channel 67036 (2170.0MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~26.5GHz



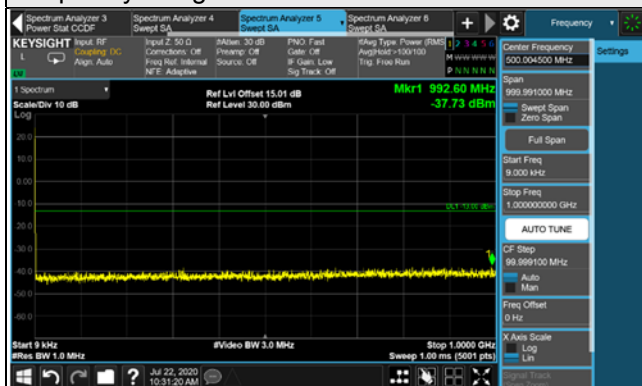
*The 9kHz signal over the limit is from Spectrum.

Chain 1

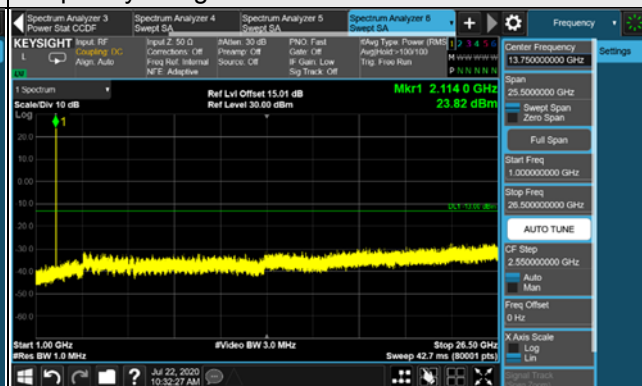
Channel Bandwidth: 5MHz

Channel 66461 (2112.5MHz)

Frequency Range : 9kHz~1GHz

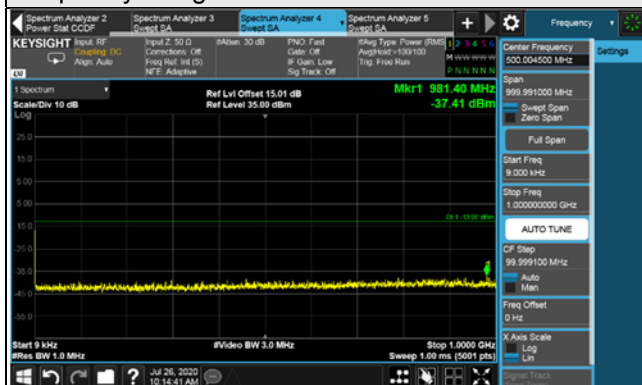


Frequency Range : 1GHz~26.5GHz

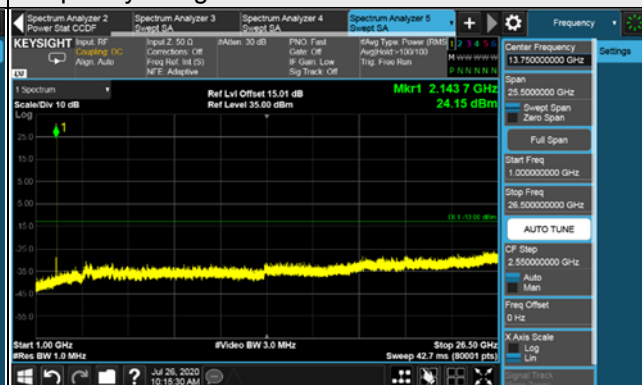


Channel 66786 (2145.0MHz)

Frequency Range : 9kHz~1GHz

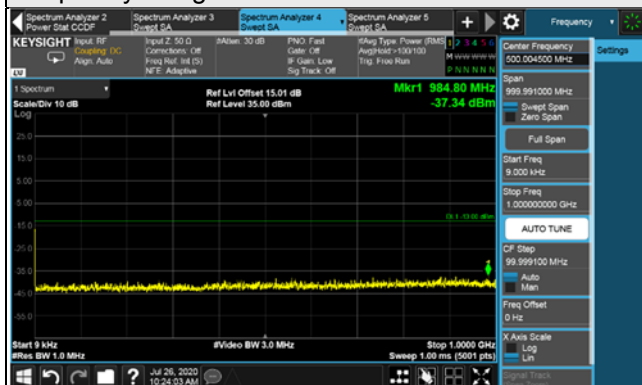


Frequency Range : 1GHz~26.5GHz

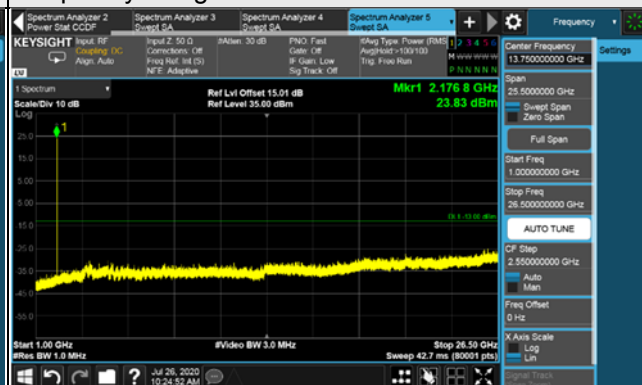


Channel 67111 (2177.5MHz)

Frequency Range : 9kHz~1GHz



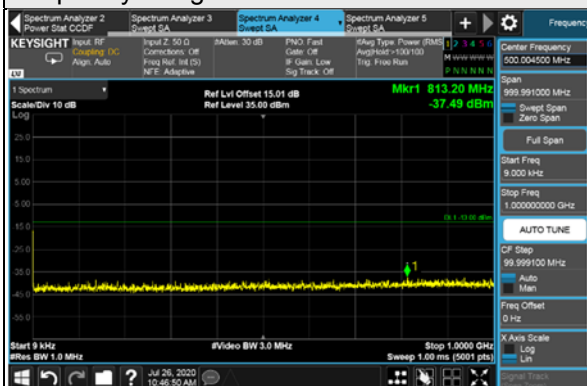
Frequency Range : 1GHz~26.5GHz



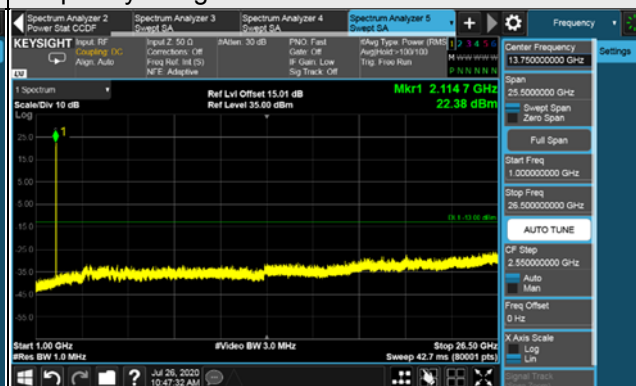
Channel Bandwidth: 10MHz

Channel 66486 (2115.0MHz)

Frequency Range : 9kHz~1GHz

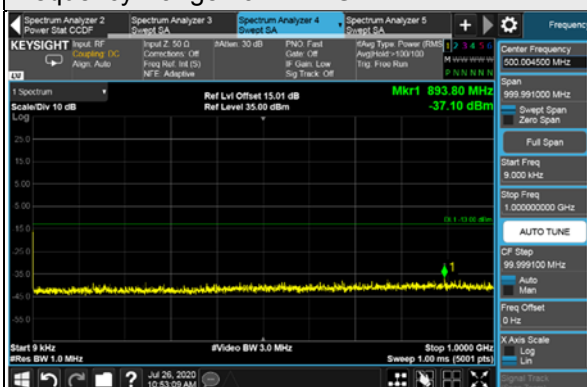


Frequency Range : 1GHz~26.5GHz

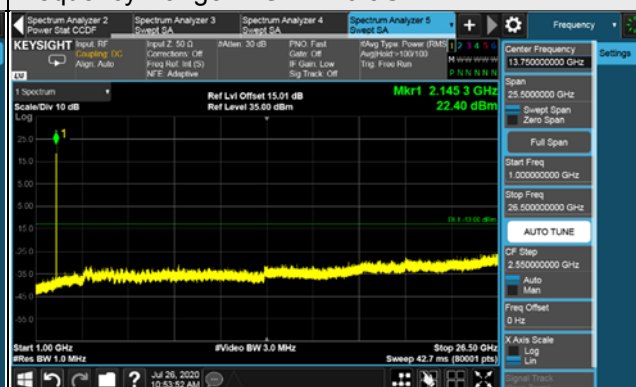


Channel 66786 (2145.0MHz)

Frequency Range : 9kHz~1GHz

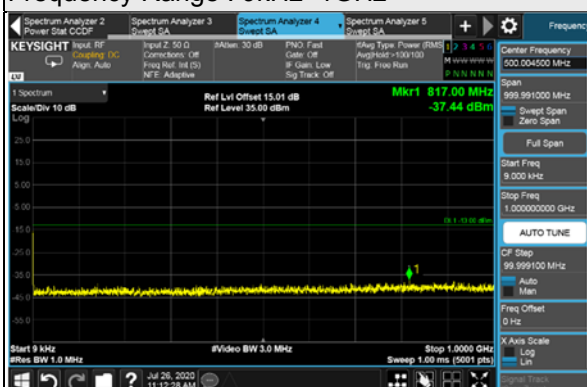


Frequency Range : 1GHz~26.5GHz

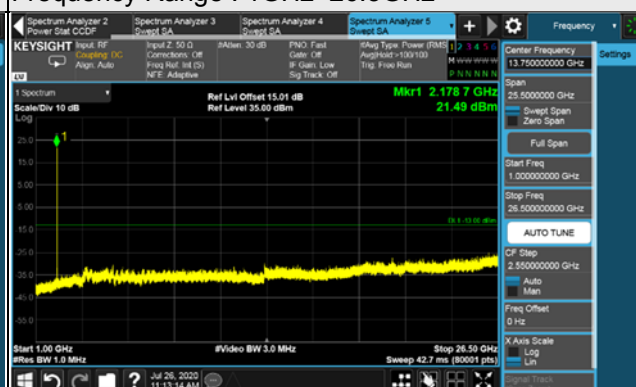


Channel 67086 (2175.0MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~26.5GHz

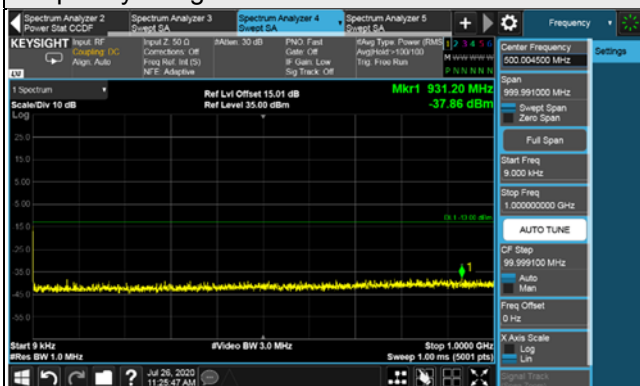


*The 9kHz signal over the limit is from Spectrum.

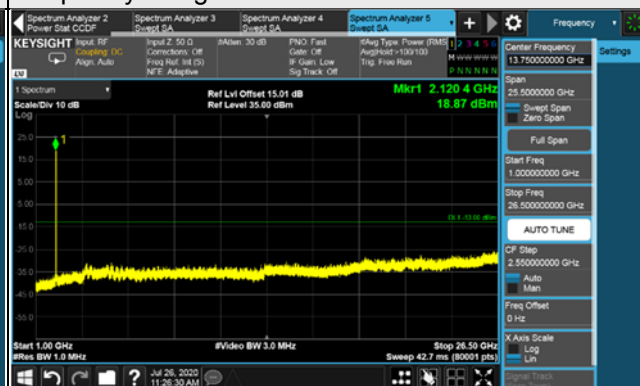
Channel Bandwidth: 15MHz

Channel 66511 (2117.5MHz)

Frequency Range : 9kHz~1GHz

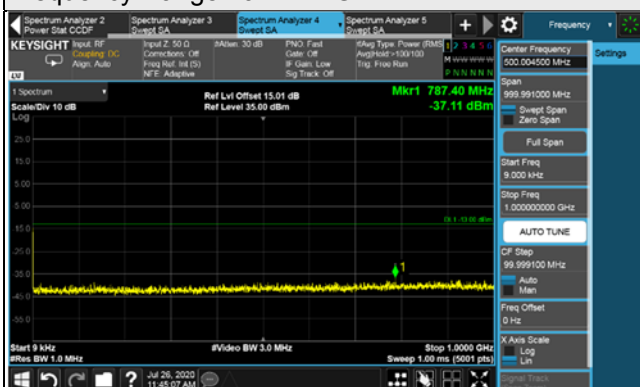


Frequency Range : 1GHz~26.5GHz

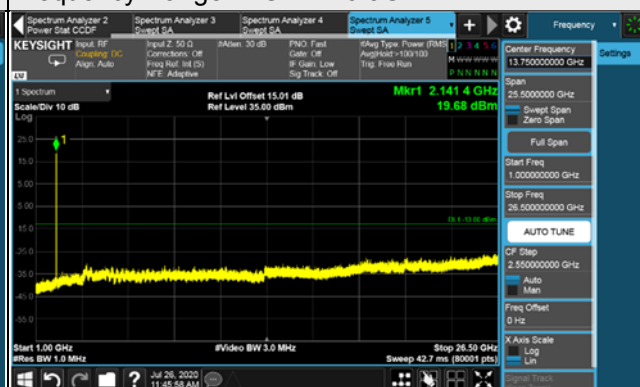


Channel 66786 (2145.0MHz)

Frequency Range : 9kHz~1GHz

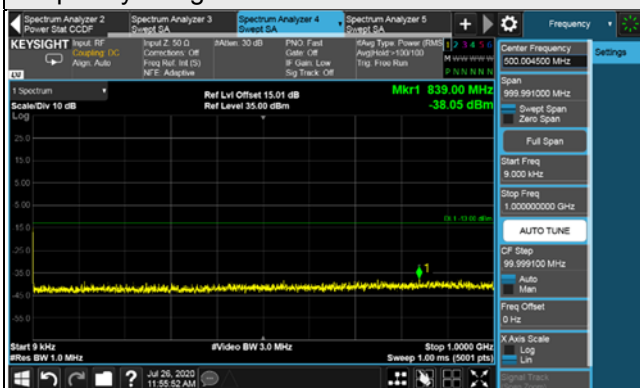


Frequency Range : 1GHz~26.5GHz

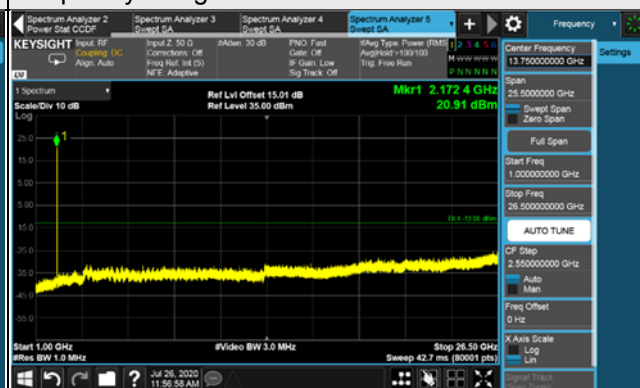


Channel 67061 (2172.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~26.5GHz

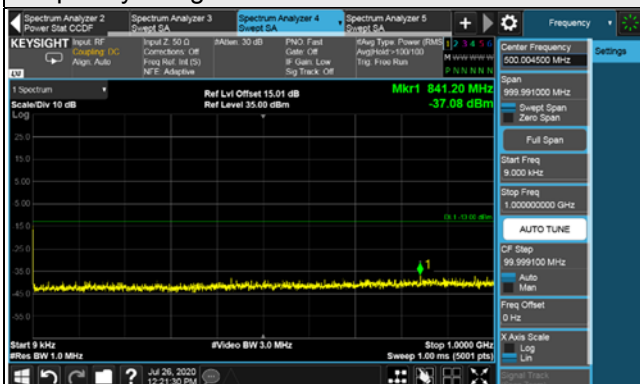


*The 9kHz signal over the limit is from Spectrum.

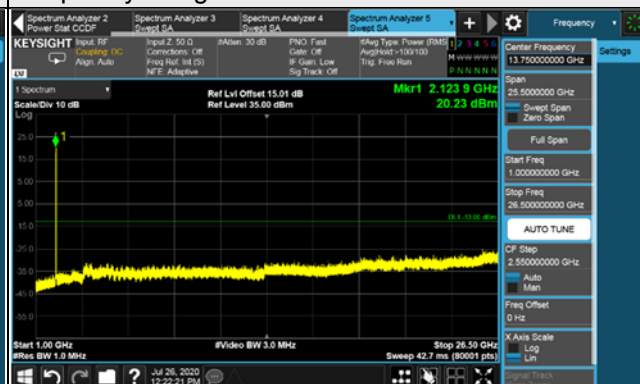
Channel Bandwidth: 20MHz

Channel 66536 (2120.0MHz)

Frequency Range : 9kHz~1GHz

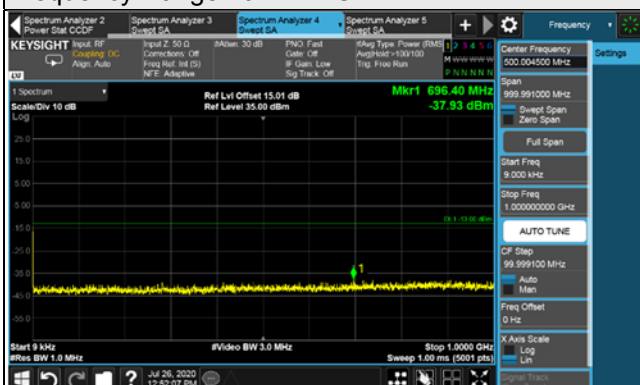


Frequency Range : 1GHz~26.5GHz

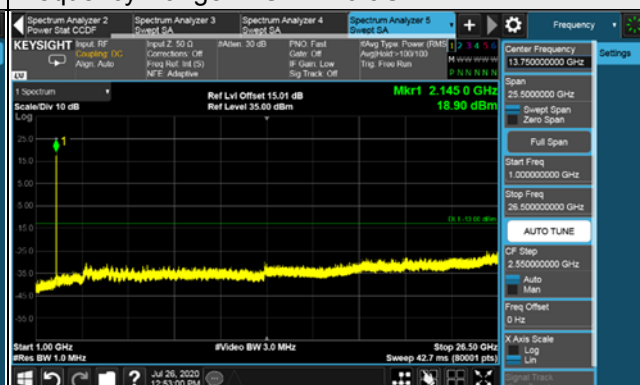


Channel 66786 (2145.0MHz)

Frequency Range : 9kHz~1GHz

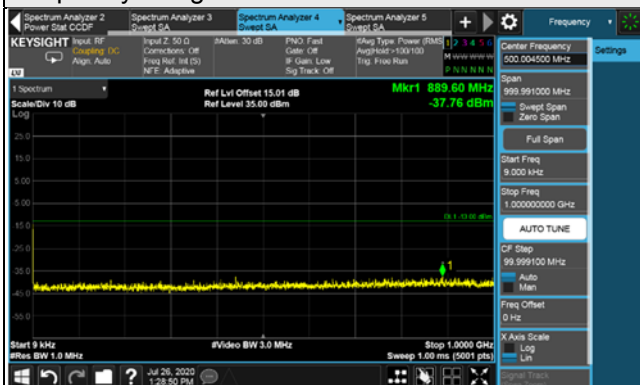


Frequency Range : 1GHz~26.5GHz

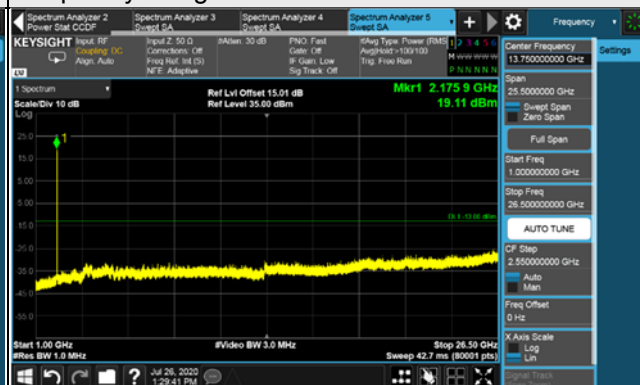


Channel 67036 (2170.0MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~26.5GHz



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

4.8 Radiated Emission Measurement

4.8.1 Limits of Radiated Emission Measurement

LTE Band 4, 66

In the FCC 27.53(h), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, the emission limit equal to -13dBm .

For LTE Band 13

According to FCC 27.53(c), on any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, the emission limit equal to -13dBm .

4.8.2 Test Procedure

- a. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high channel of operational frequency range.)
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G
- d. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution antenna}$.

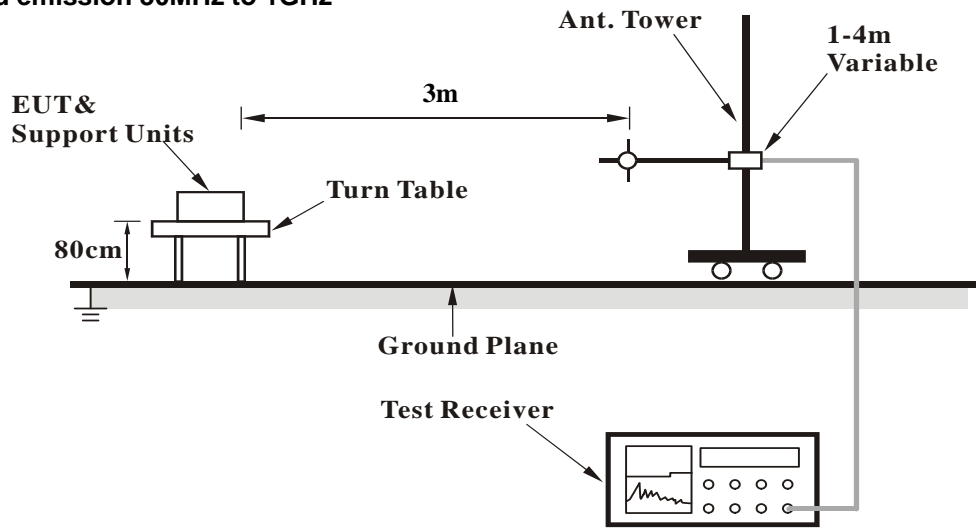
Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.8.3 Deviation from Test Standard

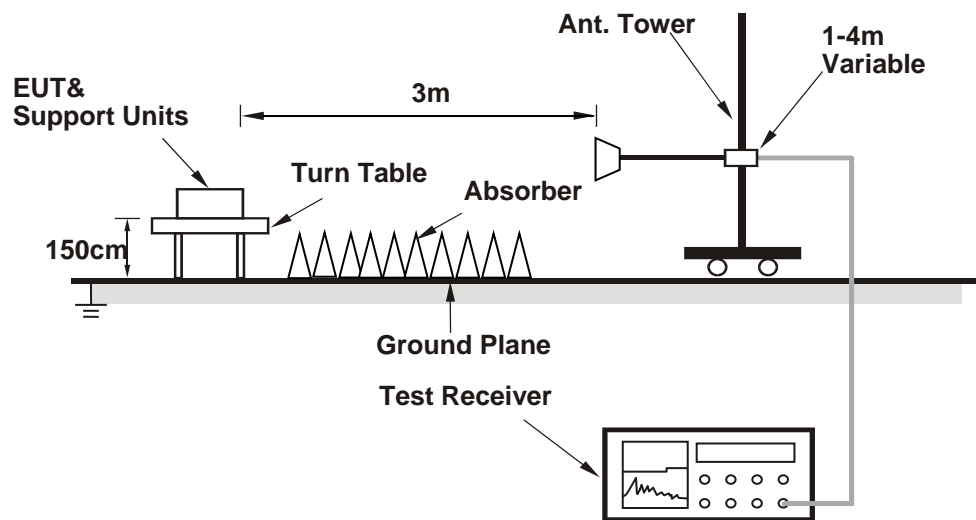
No deviation.

4.8.4 Test Setup

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.8.5 Test Results

Below 1GHz

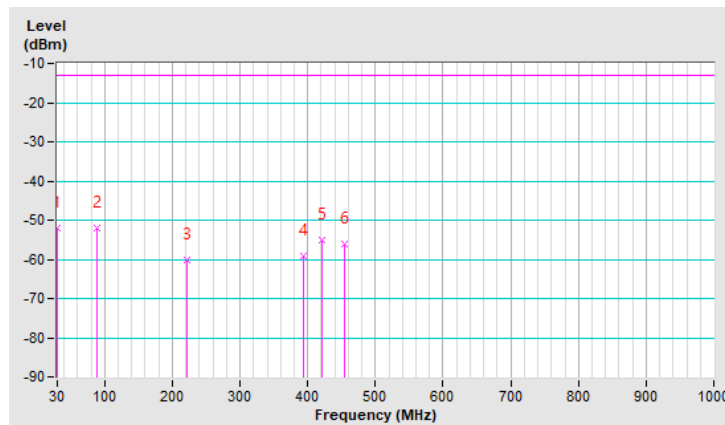
LTE Band 4, Channel Bandwidth: 20MHz

Mode	TX channel 2300 (2145.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	30.97	-55.6	-33.1	-18.8	-51.9	-13.0	-38.9
2	89.17	-44.2	-51.9	-0.1	-52.0	-13.0	-39.0
3	221.09	-52.2	-58.4	-1.9	-60.3	-13.0	-47.3
4	393.75	-58.4	-62.3	3.3	-59.0	-13.0	-46.0
5	420.91	-54.9	-58.7	3.5	-55.2	-13.0	-42.2
6	453.89	-56.2	-59.7	3.5	-56.2	-13.0	-43.2

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

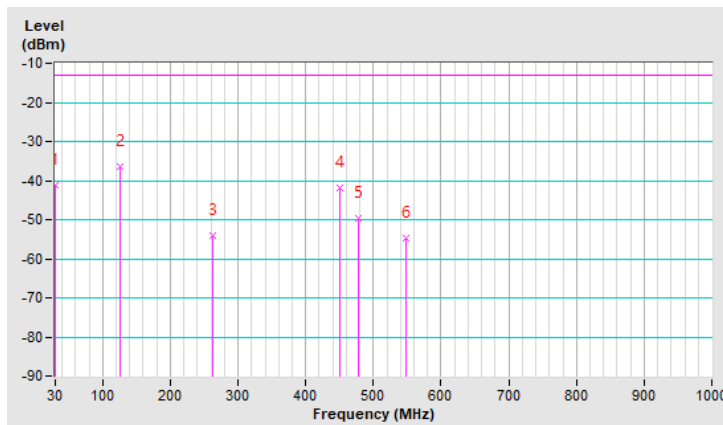


Mode	TX channel 2300 (2145.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	30.97	-31.1	-22.5	-18.8	-41.3	-13.0	-28.3
2	126.03	-30.6	-33.2	-3.4	-36.6	-13.0	-23.6
3	262.80	-55.1	-52.5	-1.6	-54.1	-13.0	-41.1
4	450.01	-41.6	-45.3	3.4	-41.9	-13.0	-28.9
5	478.14	-49.3	-53.2	3.7	-49.5	-13.0	-36.5
6	547.98	-56.4	-58.6	3.8	-54.8	-13.0	-41.8

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).



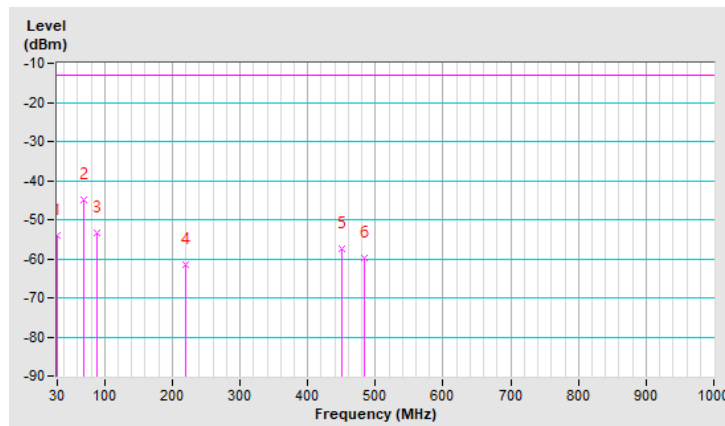
LTE Band 13, Channel Bandwidth: 10MHz

Mode	TX channel 5205 (748.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	30.97	-55.8	-35.4	-18.8	-54.2	-13.0	-41.2
2	69.77	-36.5	-44.4	-0.6	-45.0	-13.0	-32.0
3	88.20	-43.6	-53.2	-0.2	-53.4	-13.0	-40.4
4	220.12	-51.4	-59.7	-1.9	-61.6	-13.0	-48.6
5	450.98	-55.2	-60.8	3.4	-57.4	-13.0	-44.4
6	483.96	-57.5	-63.6	3.7	-59.9	-13.0	-46.9

Remarks:

- ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
- Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.

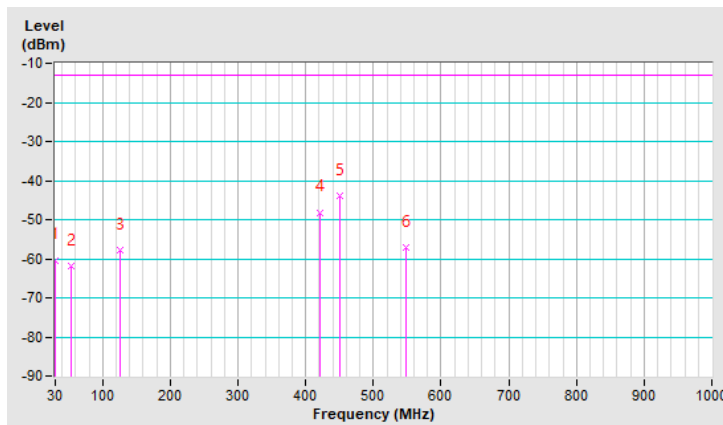


Mode	TX channel 5205 (748.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	30.97	-47.9	-41.5	-18.8	-60.3	-13.0	-47.3
2	54.25	-53.0	-56.2	-5.7	-61.9	-13.0	-48.9
3	125.06	-49.5	-54.6	-3.2	-57.8	-13.0	-44.8
4	420.91	-45.6	-51.6	3.5	-48.1	-13.0	-35.1
5	450.98	-41.5	-47.4	3.4	-44.0	-13.0	-31.0
6	547.98	-56.7	-61.0	3.8	-57.2	-13.0	-44.2

Remarks:

- ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
- Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.



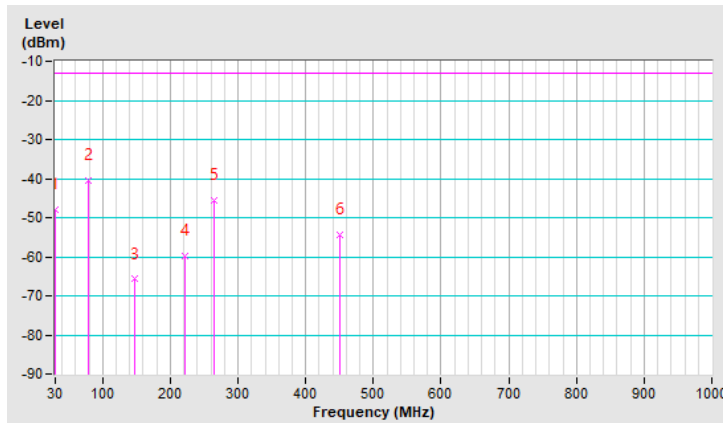
LTE Band 66, Channel Bandwidth: 20MHz

Mode	TX channel 67036 (2170.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	30.00	-52.1	-28.7	-19.4	-48.1	-13.0	-35.1
2	79.47	-35.5	-41.0	0.6	-40.4	-13.0	-27.4
3	146.40	-61.0	-62.8	-3.0	-65.8	-13.0	-52.8
4	221.09	-51.8	-58.0	-1.9	-59.9	-13.0	-46.9
5	264.74	-41.1	-44.0	-1.6	-45.6	-13.0	-32.6
6	450.01	-54.2	-57.7	3.4	-54.3	-13.0	-41.3

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

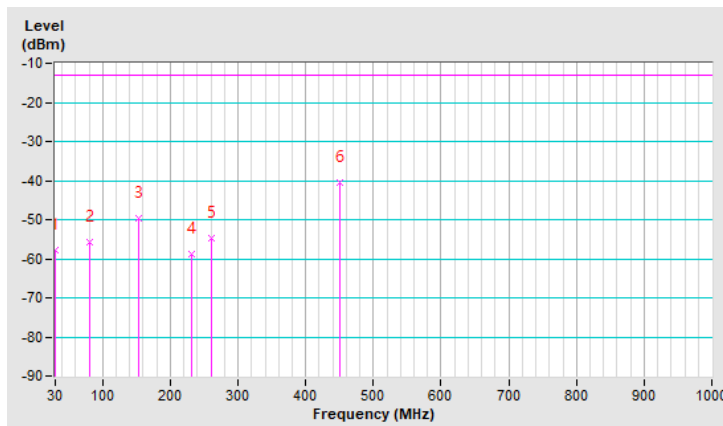


Mode	TX channel 67036 (2170.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 66%RH	Input Power	120Vac, 60Hz
Tested By	Han Wu		

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	30.97	-47.7	-39.1	-18.8	-57.9	-13.0	-44.9
2	81.41	-51.0	-56.1	0.5	-55.6	-13.0	-42.6
3	154.16	-47.5	-46.9	-2.9	-49.8	-13.0	-36.8
4	230.79	-55.7	-57.2	-1.7	-58.9	-13.0	-45.9
5	260.86	-55.8	-53.3	-1.5	-54.8	-13.0	-41.8
6	450.98	-40.2	-43.9	3.4	-40.5	-13.0	-27.5

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).



Above 1GHz

LTE Band 4, Channel Bandwidth: 5MHz

Mode	TX channel 1975 (2112.5MHz)	Frequency Range	1GHz ~ 25GHz
Environmental Conditions	22deg. C, 68%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4225.00	-47.9	-39.3	1.0	-38.3	-13.0	-25.3

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4225.00	-50.9	-41.2	1.0	-40.2	-13.0	-27.2

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

Mode	TX channel 2175 (2132.5MHz)	Frequency Range	1GHz ~ 25GHz
Environmental Conditions	22deg. C, 68%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4265.00	-47.7	-38.9	1.1	-37.8	-13.0	-24.8

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4265.00	-50.8	-41.3	1.1	-40.2	-13.0	-27.2

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

Mode	TX channel 2375 (2152.5MHz)	Frequency Range	1GHz ~ 25GHz
Environmental Conditions	22deg. C, 68%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4305.00	-47.5	-38.3	1.0	-37.3	-13.0	-24.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4305.00	-50.6	-41.1	1.0	-40.1	-13.0	-27.1

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

LTE Band 4, Channel Bandwidth: 20MHz

Mode	TX channel 2050 (2120.0MHz)	Frequency Range	1GHz ~ 25GHz
Environmental Conditions	22deg. C, 68%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4240.00	-48.1	-39.4	1.0	-38.4	-13.0	-25.4

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4240.00	-50.9	-41.3	1.0	-40.3	-13.0	-27.3

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

Mode	TX channel 2175 (2132.5MHz)	Frequency Range	1GHz ~ 25GHz
Environmental Conditions	22deg. C, 68%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4265.00	-47.6	-38.8	1.1	-37.7	-13.0	-24.7

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4265.00	-50.4	-40.9	1.1	-39.8	-13.0	-26.8

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

Mode	TX channel 2300 (2145.0MHz)	Frequency Range	1GHz ~ 25GHz
Environmental Conditions	22deg. C, 68%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4290.00	-47.2	-38.2	1.1	-37.1	-13.0	-24.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4290.00	-50.3	-40.9	1.1	-39.8	-13.0	-26.8

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

LTE Band 13, Channel Bandwidth: 5MHz

Mode	TX channel 5205 (748.5MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	22deg. C, 68%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1497.00	-50.4	-43.0	1.5	-41.5	-13.0	-28.5

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1497.00	-53.4	-47.1	1.5	-45.6	-13.0	-32.6

Remarks:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.

Mode	TX channel 5230 (751.0MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	22deg. C, 68%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1502.00	-50.7	-43.2	1.5	-41.7	-13.0	-28.7

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1502.00	-53.6	-47.3	1.5	-45.8	-13.0	-32.8

Remarks:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.

Mode	TX channel 5255 (753.5MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	22deg. C, 68%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1507.00	-50.5	-43.1	1.5	-41.6	-13.0	-28.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1507.00	-53.6	-47.3	1.5	-45.8	-13.0	-32.8

Remarks:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.

LTE Band 13, Channel Bandwidth: 10MHz

Mode	TX channel 5230 (751.0MHz)	Frequency Range	1GHz ~ 18GHz
Environmental Conditions	22deg. C, 68%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1502.00	-50.8	-43.3	1.5	-41.8	-13.0	-28.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1502.00	-53.9	-47.5	1.5	-46.0	-13.0	-33.0

Remarks:

1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB) + 2.15dB.

LTE Band 66, Channel Bandwidth: 5MHz

Mode	TX channel 66461 (2112.5MHz)	Frequency Range	1GHz ~ 25GHz
Environmental Conditions	22deg. C, 68%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4225.00	-47.7	-39.1	1.0	-38.1	-13.0	-25.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4225.00	-50.2	-40.5	1.0	-39.5	-13.0	-26.5

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

Mode	TX channel 66786 (2145.0MHz)	Frequency Range	1GHz ~ 25GHz
Environmental Conditions	22deg. C, 68%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4310.00	-47.4	-38.1	1.0	-37.1	-13.0	-24.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4310.00	-50.4	-41.0	1.0	-40.0	-13.0	-27.0

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

Mode	TX channel 67111 (2177.5MHz)	Frequency Range	1GHz ~ 25GHz
Environmental Conditions	22deg. C, 68%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4395.00	-47.6	-37.5	1.0	-36.5	-13.0	-23.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4395.00	-50.4	-41.2	1.0	-40.2	-13.0	-27.2

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

LTE Band 66, Channel Bandwidth: 20MHz

Mode	TX channel 66536 (2120.0MHz)	Frequency Range	1GHz ~ 25GHz
Environmental Conditions	22deg. C, 68%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4240.00	-47.5	-38.8	1.0	-37.8	-13.0	-24.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4240.00	-50.6	-41.0	1.0	-40.0	-13.0	-27.0

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

Mode	TX channel 66786 (2145.0MHz)	Frequency Range	1GHz ~ 25GHz
Environmental Conditions	22deg. C, 68%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4310.00	-47.4	-38.1	1.0	-37.1	-13.0	-24.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4310.00	-50.8	-41.4	1.0	-40.4	-13.0	-27.4

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

Mode	TX channel 67036 (2170.0MHz)	Frequency Range	1GHz ~ 25GHz
Environmental Conditions	22deg. C, 68%RH	Input Power	120Vac, 60Hz
Tested By	Greg Lin		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4380.00	-47.3	-37.3	1.0	-36.3	-13.0	-23.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4380.00	-50.4	-41.1	1.0	-40.1	-13.0	-27.1

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) - Cable Loss (dB).

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

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

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

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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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