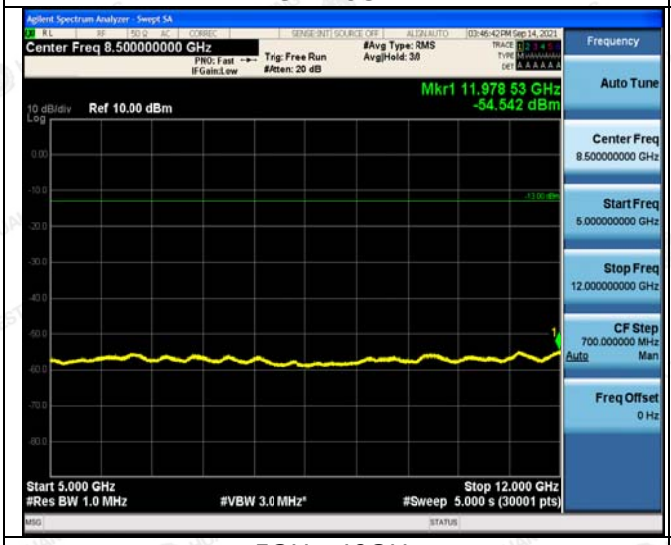
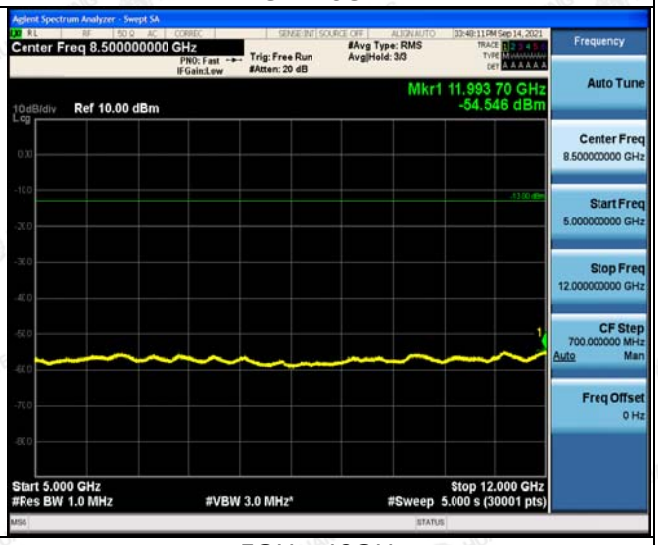
1GHz~5GHz

1GHz~5GHz



5GHz~12GHz



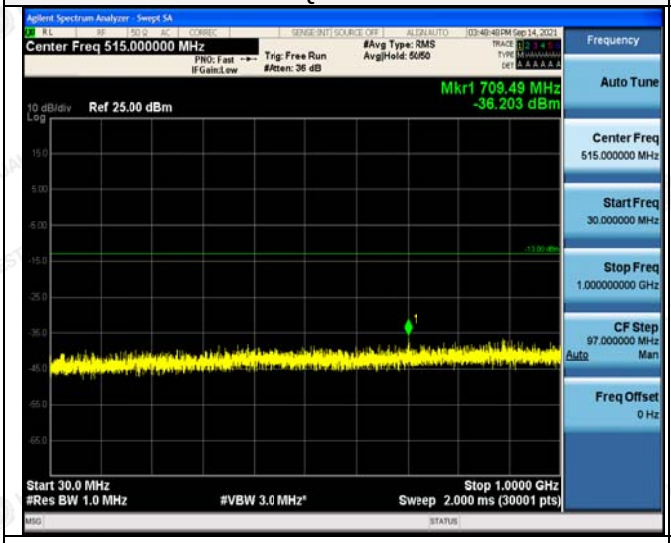
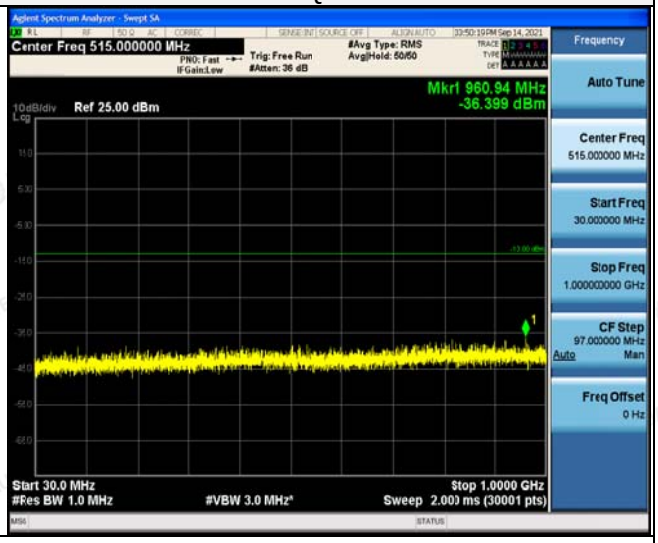
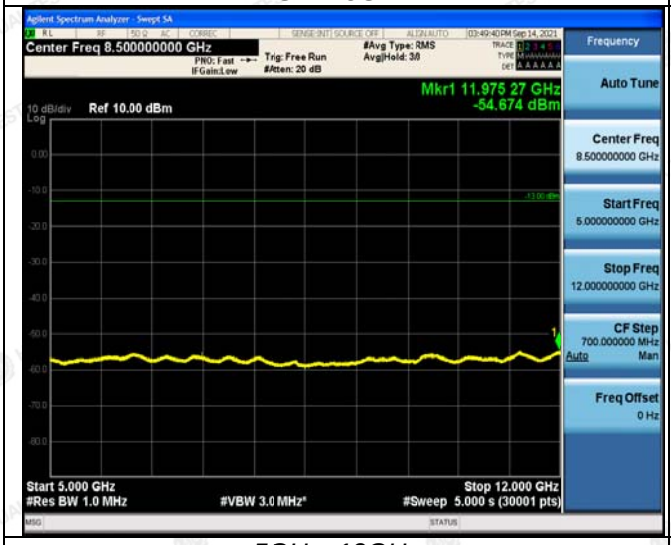
5GHz~12GHz

12GHz~26.5GHz

1RB#0

12GHz~26.5GHz

1RB#0

LTE FDD Band 66-10MHz Channel Bandwidth	
High Channel	
QPSK	16QAM
	
30MHz~1GHz	30MHz~1GHz
	
1GHz~5GHz	1GHz~5GHz
	
5GHz~12GHz	5GHz~12GHz

12GHz~26.5GHz

1RB#0

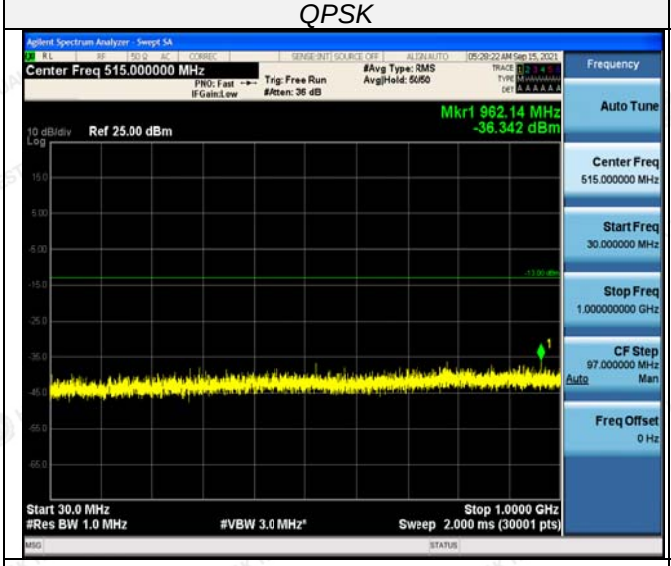
12GHz~26.5GHz

1RB#0

LTE FDD Band 66-15MHz Channel Bandwidth

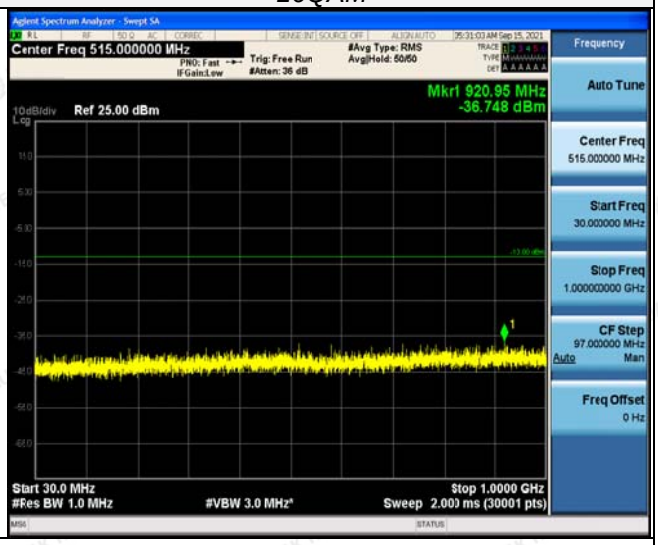
Low Channel

QPSK



30MHz~1GHz

16QAM

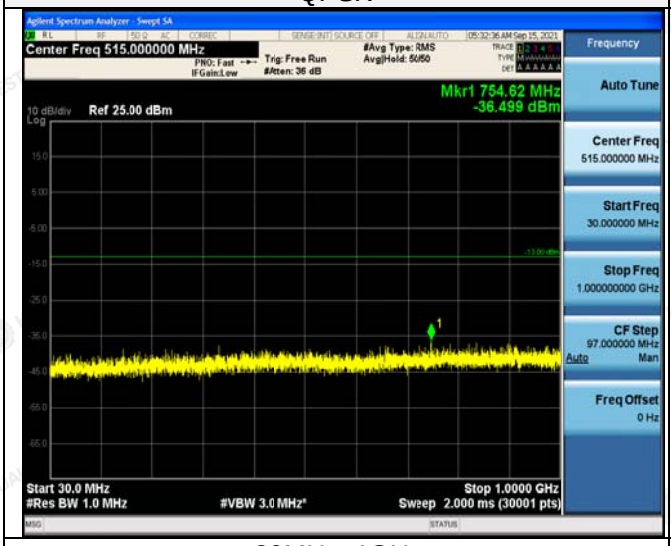
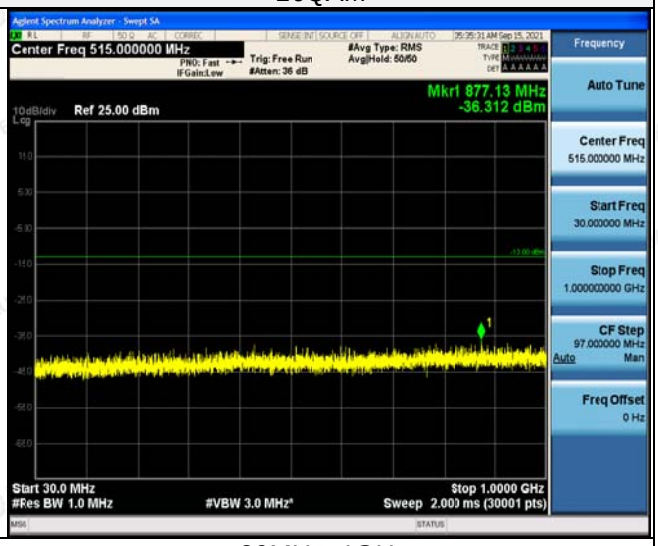


30MHz~1GHz

1GHz~5GHz

1GHz~5GHz

	
5GHz~12GHz	*5GHz~12GHz*
	
12GHz~26.5GHz	*12GHz~26.5GHz*
1RB#0	*1RB#0*

LTE FDD Band 66-15MHz Channel Bandwidth	
Middle Channel	
QPSK	*16QAM*
	
30MHz~1GHz	*30MHz~1GHz*

1GHz~5GHz

1GHz~5GHz

5GHz~12GHz

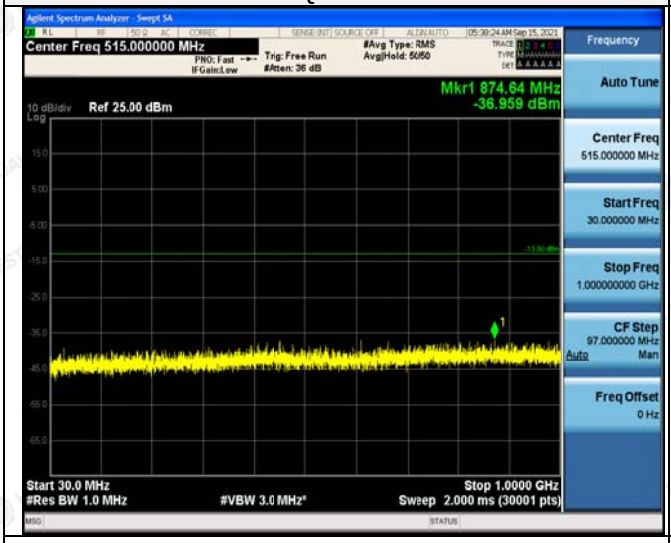
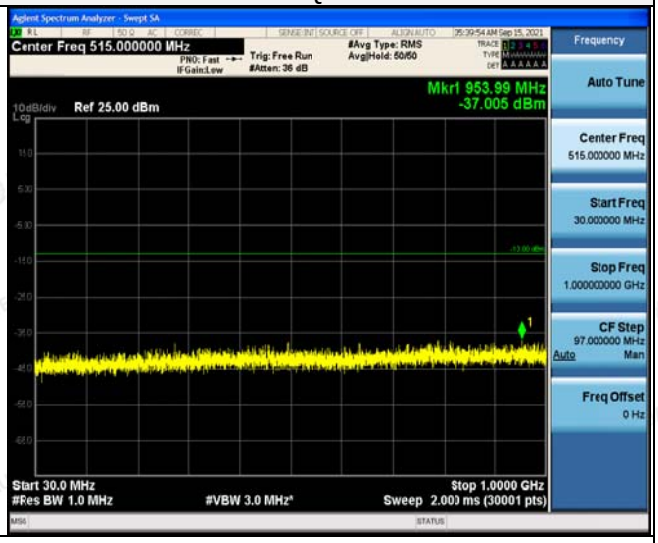
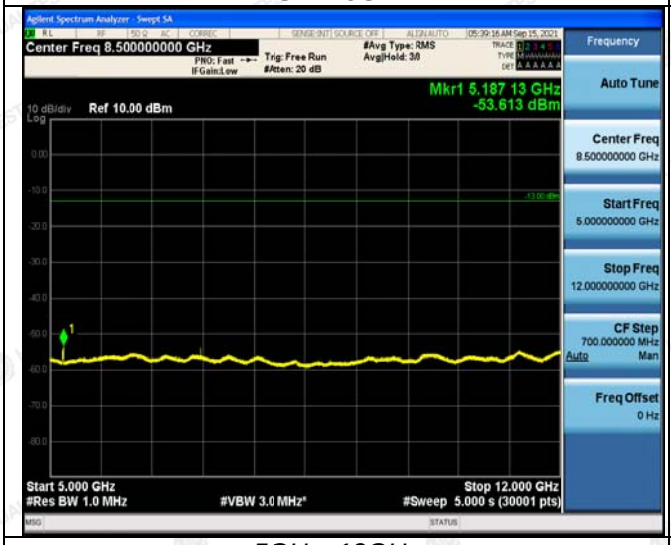
5GHz~12GHz

12GHz~26.5GHz

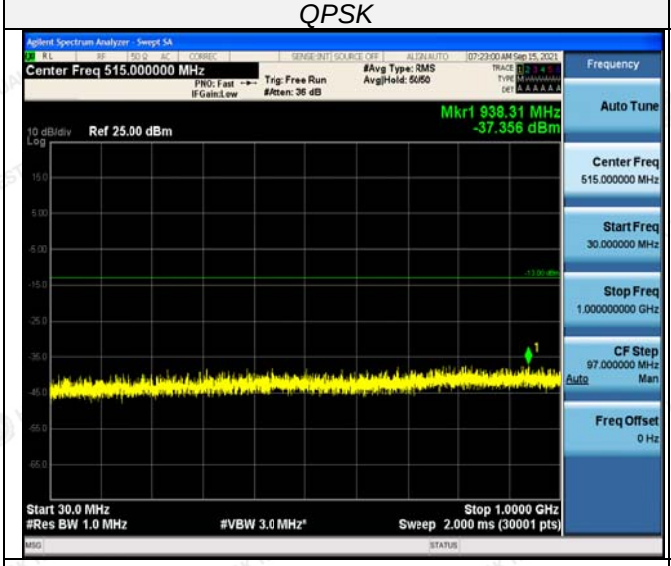
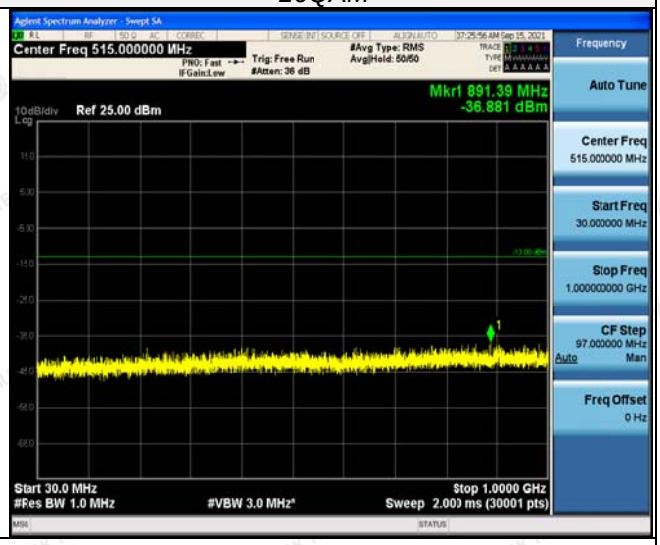
1RB#0

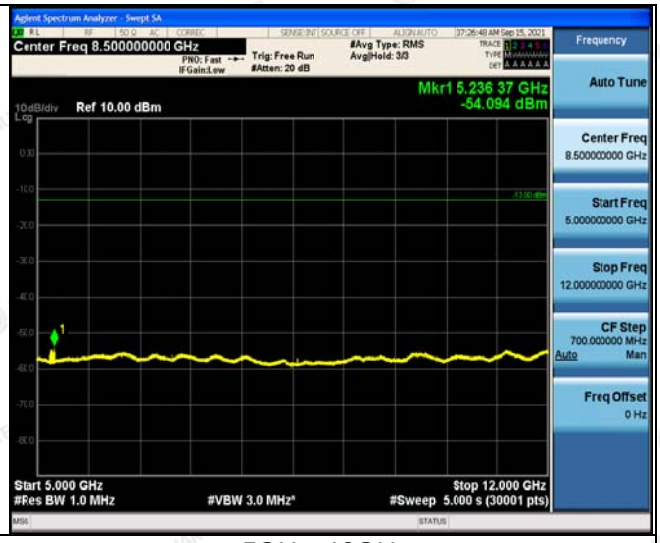
12GHz~26.5GHz

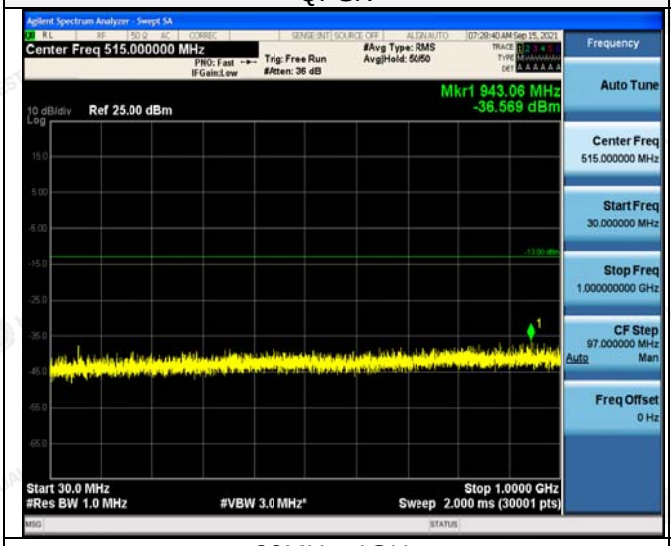
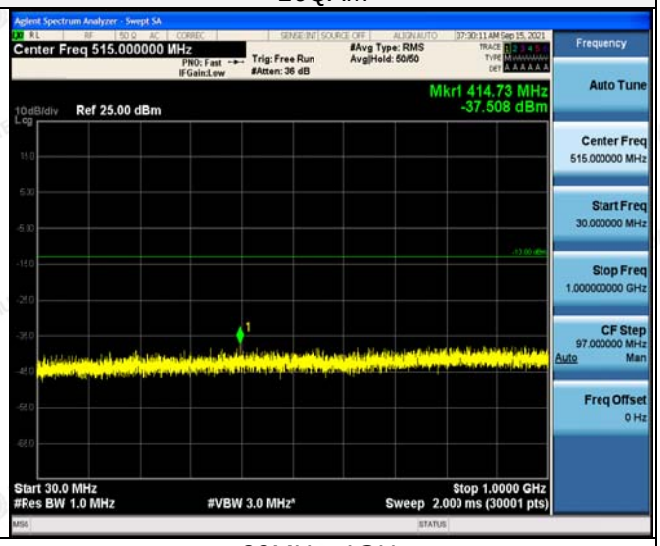
1RB#0

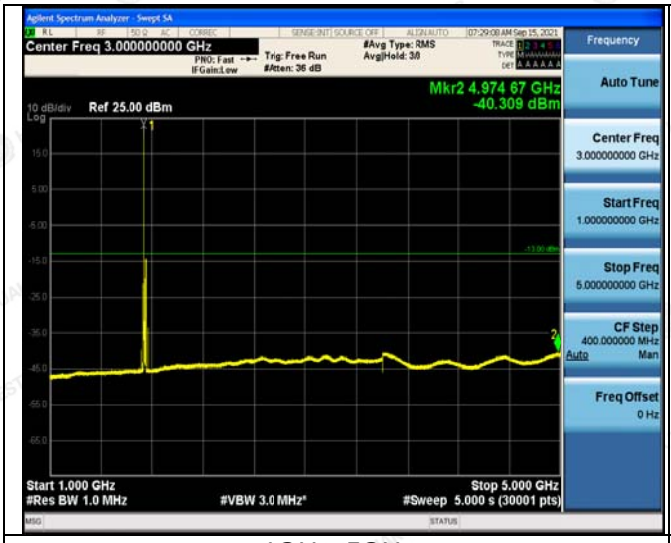
LTE FDD Band 66-15MHz Channel Bandwidth	
High Channel	
QPSK	16QAM
	
30MHz~1GHz	30MHz~1GHz
	
1GHz~5GHz	1GHz~5GHz
	
5GHz~12GHz	5GHz~12GHz

	
12GHz~26.5GHz	*12GHz~26.5GHz*
1RB#0	*1RB#0*

LTE FDD Band 66-20MHz Channel Bandwidth	
Low Channel	
QPSK	*16QAM*
	
30MHz~1GHz	*30MHz~1GHz*
	
1GHz~5GHz	*1GHz~5GHz*

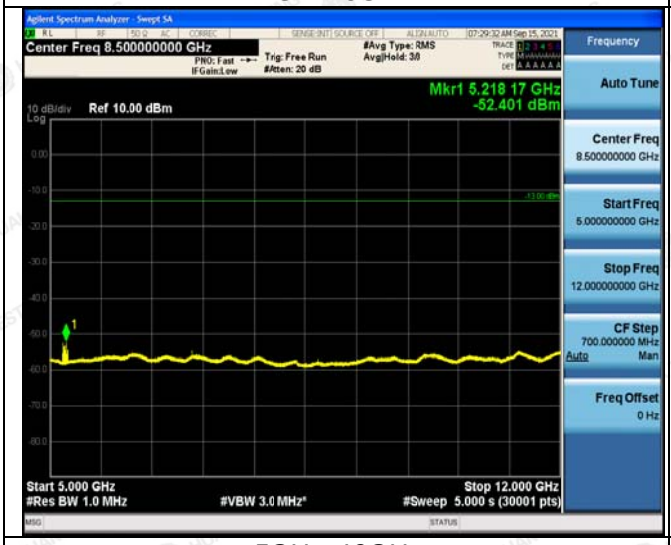
	
5GHz~12GHz	*5GHz~12GHz*
	
12GHz~26.5GHz	*12GHz~26.5GHz*
1RB#0	*1RB#0*

LTE FDD Band 66-20MHz Channel Bandwidth	
Middle Channel	
QPSK	*16QAM*
	
30MHz~1GHz	*30MHz~1GHz*



1GHz~5GHz

1GHz~5GHz



5GHz~12GHz

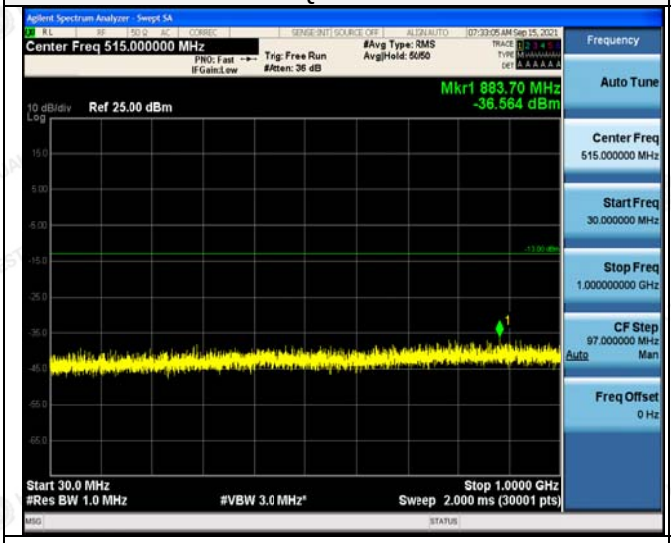
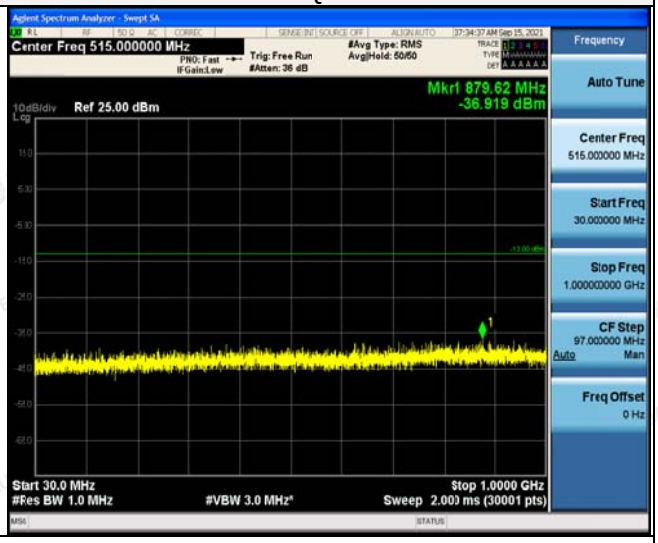
5GHz~12GHz

12GHz~26.5GHz

1RB#0

12GHz~26.5GHz

1RB#0

LTE FDD Band 66-20MHz Channel Bandwidth	
High Channel	
QPSK	16QAM
	
30MHz~1GHz	30MHz~1GHz
	
1GHz~5GHz	1GHz~5GHz
	
5GHz~12GHz	5GHz~12GHz

	
12GHz~26.5GHz	*12GHz~26.5GHz*
1RB#0	*1RB#0*

Radiated Measurement:

Remark:

1. *We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 66; recorded worst case for each Channel Bandwidth of LTE FDD Band 66.*
2. *EIRP=P_{Mea}(dBm)-P_{cl}(dB) +G_a(dBi)*
3. *We were not recorded other points as values lower than limits.*
4. *Margin = Limit - EIRP*

LTE FDD Band 66_Channel Bandwidth 1.4MHz_QPSK_ Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.4	-45.09	4.02	3	12.5	-36.61	-13.00	23.61	H
5132.1	-51.15	5.11	3	13.38	-42.88	-13.00	29.88	H
3421.4	-52.85	4.02	3	12.5	-44.37	-13.00	31.37	V
5132.1	-49.68	5.11	3	13.38	-41.41	-13.00	28.41	V

LTE FDD Band 66_Channel Bandwidth 1.4MHz_QPSK_ Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-44.81	4.02	3	12.45	-36.38	-13.00	23.38	H
5235	-48.91	5.11	3	13.38	-40.64	-13.00	27.64	H
3490	-49.15	4.02	3	12.45	-40.72	-13.00	27.72	V
5235	-48.3	5.11	3	13.38	-40.03	-13.00	27.03	V

LTE FDD Band 66_Channel Bandwidth 1.4MHz_QPSK_ High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.6	-46.22	4.02	3	12.21	-38.03	-13.00	25.03	H
5337.9	-47.66	5.11	3	13.26	-39.51	-13.00	26.51	H
3558.6	-50.46	4.02	3	12.21	-42.27	-13.00	29.27	V
5337.9	-49.81	5.11	3	13.26	-41.66	-13.00	28.66	V

LTE FDD Band 66_Channel Bandwidth 3MHz_QPSK_ Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3423.0	-46.24	4.02	3	12.5	-37.76	-13.00	24.76	H
5134.5	-51.84	5.11	3	13.38	-43.57	-13.00	30.57	H
3423.0	-49.69	4.02	3	12.5	-41.21	-13.00	28.21	V
5134.5	-47.89	5.11	3	13.38	-39.62	-13.00	26.62	V

LTE FDD Band 66_Channel Bandwidth 3MHz_QPSK_ Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-45.6	4.02	3	12.45	-37.17	-13.00	24.17	H
5235	-48.28	5.11	3	13.38	-40.01	-13.00	27.01	H
3490	-51.17	4.02	3	12.45	-42.74	-13.00	29.74	V
5235	-49.56	5.11	3	13.38	-41.29	-13.00	28.29	V

LTE FDD Band 66_Channel Bandwidth 3MHz_QPSK_ High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3557	-43.86	4.02	3	12.21	-35.67	-13.00	22.67	H
5335.5	-45.91	5.11	3	13.26	-37.76	-13.00	24.76	H
3557	-49.7	4.02	3	12.21	-41.51	-13.00	28.51	V
5335.5	-49.45	5.11	3	13.26	-41.3	-13.00	28.3	V

LTE FDD Band 66_Channel Bandwidth 5MHz_QPSK_ Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3425.0	-46.45	4.02	3	12.5	-37.97	-13.00	24.97	H
5137.5	-53.5	5.11	3	13.38	-45.23	-13.00	32.23	H
3425.0	-53.28	4.02	3	12.5	-44.8	-13.00	31.8	V
5137.5	-49.53	5.11	3	13.38	-41.26	-13.00	28.26	V

LTE FDD Band 66_Channel Bandwidth 5MHz_QPSK_ Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-45.02	4.02	3	12.45	-36.59	-13.00	23.59	H
5235	-48.43	5.11	3	13.38	-40.16	-13.00	27.16	H
3490	-49.83	4.02	3	12.45	-41.4	-13.00	28.4	V
5235	-48.12	5.11	3	13.38	-39.85	-13.00	26.85	V

LTE FDD Band 66_Channel Bandwidth 5MHz_QPSK_ High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3555	-45.73	4.02	3	12.21	-37.54	-13.00	24.54	H
5332.5	-48.29	5.11	3	13.26	-40.14	-13.00	27.14	H
3555	-48.61	4.02	3	12.21	-40.42	-13.00	27.42	V
5332.5	-49.99	5.11	3	13.26	-41.84	-13.00	28.84	V

LTE FDD Band 66_Channel Bandwidth 10MHz_QPSK_ Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3430.0	-45.07	4.02	3	12.5	-36.59	-13.00	23.59	H
5145.0	-47.36	5.11	3	13.38	-39.09	-13.00	26.09	H
3430.0	-49.69	4.02	3	12.5	-41.21	-13.00	28.21	V
5145.0	-49.29	5.11	3	13.38	-41.02	-13.00	28.02	V

LTE FDD Band 66_Channel Bandwidth 10MHz_QPSK_ Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-45.26	4.02	3	12.45	-36.83	-13.00	23.83	H
5235	-47.83	5.11	3	13.38	-39.56	-13.00	26.56	H
3490	-49.22	4.02	3	12.45	-40.79	-13.00	27.79	V
5235	-49.26	5.11	3	13.38	-40.99	-13.00	27.99	V

LTE FDD Band 66_Channel Bandwidth 10MHz_QPSK_ High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3550	-45.22	4.02	3	12.21	-37.03	-13.00	24.03	H
5325	-46.22	5.11	3	13.26	-38.07	-13.00	25.07	H
3550	-49.18	4.02	3	12.21	-40.99	-13.00	27.99	V
5325	-50.93	5.11	3	13.26	-42.78	-13.00	29.78	V

LTE FDD Band 66_Channel Bandwidth 15MHz_QPSK_ Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3435.0	-45.02	4.02	3	12.5	-36.54	-13.00	23.54	H
5152.5	-46.93	5.11	3	13.38	-38.66	-13.00	25.66	H
3435.0	-52.19	4.02	3	12.5	-43.71	-13.00	30.71	V
5152.5	-48.34	5.11	3	13.38	-40.07	-13.00	27.07	V

LTE FDD Band 66_Channel Bandwidth 15MHz_QPSK_ Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-44.81	4.02	3	12.45	-36.38	-13.00	23.38	H
5235	-47.41	5.11	3	13.38	-39.14	-13.00	26.14	H
3490	-51.99	4.02	3	12.45	-43.56	-13.00	30.56	V
5235	-48.39	5.11	3	13.38	-40.12	-13.00	27.12	V

LTE FDD Band 66_Channel Bandwidth 15MHz_QPSK_ High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3545	-42.73	4.02	3	12.21	-34.54	-13.00	21.54	H
5317.5	-47.68	5.11	3	13.26	-39.53	-13.00	26.53	H
3545	-48.33	4.02	3	12.21	-40.14	-13.00	27.14	V
5317.5	-48.75	5.11	3	13.26	-40.6	-13.00	27.6	V

LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK_ Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3440.0	-46.09	4.02	3	12.5	-37.61	-13.00	24.61	H
5160.0	-54.35	5.11	3	13.38	-46.08	-13.00	33.08	H
3440.0	-52.93	4.02	3	12.5	-44.45	-13.00	31.45	V
5160.0	-50.25	5.11	3	13.38	-41.98	-13.00	28.98	V

LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK_ Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-44.72	4.02	3	12.45	-36.29	-13.00	23.29	H
5235	-47.59	5.11	3	13.38	-39.32	-13.00	26.32	H
3490	-52.56	4.02	3	12.45	-44.13	-13.00	31.13	V
5235	-49.28	5.11	3	13.38	-41.01	-13.00	28.01	V

LTE FDD Band 66_Channel Bandwidth 20MHz_QPSK_ High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3540	-43.34	4.02	3	12.21	-35.15	-13.00	22.15	H
5310	-46.77	5.11	3	13.26	-38.62	-13.00	25.62	H
3540	-48.27	4.02	3	12.21	-40.08	-13.00	27.08	V
5310	-48.04	5.11	3	13.26	-39.89	-13.00	26.89	V

LTE FDD Band 66_Channel Bandwidth 1.4MHz_16QAM _ Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.4	-46.59	4.02	3	12.5	-38.11	-13.00	25.11	H
5132.1	-53.27	5.11	3	13.38	-45	-13.00	32	H
3421.4	-50.95	4.02	3	12.5	-42.47	-13.00	29.47	V
5132.1	-51.44	5.11	3	13.38	-43.17	-13.00	30.17	V

LTE FDD Band 66_Channel Bandwidth 1.4MHz_16QAM _ Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-43.55	4.02	3	12.45	-35.12	-13.00	22.12	H
5235	-47.89	5.11	3	13.38	-39.62	-13.00	26.62	H
3490	-50.06	4.02	3	12.45	-41.63	-13.00	28.63	V
5235	-48.17	5.11	3	13.38	-39.9	-13.00	26.9	V

LTE FDD Band 66_Channel Bandwidth 1.4MHz_16QAM _ High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.6	-42.92	4.02	3	12.21	-34.73	-13.00	21.73	H
5337.9	-46.95	5.11	3	13.26	-38.8	-13.00	25.8	H
3558.6	-48.37	4.02	3	12.21	-40.18	-13.00	27.18	V
5337.9	-48.09	5.11	3	13.26	-39.94	-13.00	26.94	V

LTE FDD Band 66_Channel Bandwidth 3MHz_16QAM _ Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3423.0	-47.19	4.02	3	12.5	-38.71	-13.00	25.71	H
5134.5	-52.77	5.11	3	13.38	-44.5	-13.00	31.5	H
3423.0	-51.81	4.02	3	12.5	-43.33	-13.00	30.33	V
5134.5	-48.44	5.11	3	13.38	-40.17	-13.00	27.17	V

LTE FDD Band 66_Channel Bandwidth 3MHz_16QAM _ Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-44.51	4.02	3	12.45	-36.08	-13.00	23.08	H
5235	-46.5	5.11	3	13.38	-38.23	-13.00	25.23	H
3490	-50.22	4.02	3	12.45	-41.79	-13.00	28.79	V
5235	-48.04	5.11	3	13.38	-39.77	-13.00	26.77	V

LTE FDD Band 66_Channel Bandwidth 3MHz_16QAM _ High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3557	-43.14	4.02	3	12.21	-34.95	-13.00	21.95	H
5335.5	-46.77	5.11	3	13.26	-38.62	-13.00	25.62	H
3557	-48.83	4.02	3	12.21	-40.64	-13.00	27.64	V
5335.5	-48.82	5.11	3	13.26	-40.67	-13.00	27.67	V

LTE FDD Band 66_Channel Bandwidth 5MHz_16QAM _ Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3425.0	-46.46	4.02	3	12.5	-37.98	-13.00	24.98	H
5137.5	-52.67	5.11	3	13.38	-44.4	-13.00	31.4	H
3425.0	-50.13	4.02	3	12.5	-41.65	-13.00	28.65	V
5137.5	-50.67	5.11	3	13.38	-42.4	-13.00	29.4	V

LTE FDD Band 66_Channel Bandwidth 5MHz_16QAM _ Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-43.46	4.02	3	12.45	-35.03	-13.00	22.03	H
5235	-47.83	5.11	3	13.38	-39.56	-13.00	26.56	H
3490	-50.2	4.02	3	12.45	-41.77	-13.00	28.77	V
5235	-47.93	5.11	3	13.38	-39.66	-13.00	26.66	V

LTE FDD Band 66_Channel Bandwidth 5MHz_16QAM _ High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3555	-43.04	4.02	3	12.21	-34.85	-13.00	21.85	H
5332.5	-46.42	5.11	3	13.26	-38.27	-13.00	25.27	H
3555	-48.66	4.02	3	12.21	-40.47	-13.00	27.47	V
5332.5	-48.76	5.11	3	13.26	-40.61	-13.00	27.61	V

LTE FDD Band 66_Channel Bandwidth 10MHz_16QAM _ Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3430.0	-46.9	4.02	3	12.5	-38.42	-13.00	25.42	H
5145.0	-52.73	5.11	3	13.38	-44.46	-13.00	31.46	H
3430.0	-49.43	4.02	3	12.5	-40.95	-13.00	27.95	V
5145.0	-49.65	5.11	3	13.38	-41.38	-13.00	28.38	V

LTE FDD Band 66_Channel Bandwidth 10MHz_16QAM _ Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-43.45	4.02	3	12.45	-35.02	-13.00	22.02	H
5235	-47.11	5.11	3	13.38	-38.84	-13.00	25.84	H
3490	-49.4	4.02	3	12.45	-40.97	-13.00	27.97	V
5235	-47.96	5.11	3	13.38	-39.69	-13.00	26.69	V

LTE FDD Band 66_Channel Bandwidth 10MHz_16QAM _ High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3550	-43.25	4.02	3	12.21	-35.06	-13.00	22.06	H
5325	-47	5.11	3	13.26	-38.85	-13.00	25.85	H
3550	-47.91	4.02	3	12.21	-39.72	-13.00	26.72	V
5325	-50.54	5.11	3	13.26	-42.39	-13.00	29.39	V

LTE FDD Band 66_Channel Bandwidth 15MHz_16QAM _ Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3435.0	-45.67	4.02	3	12.5	-37.19	-13.00	24.19	H
5152.5	-51.89	5.11	3	13.38	-43.62	-13.00	30.62	H
3435.0	-51.48	4.02	3	12.5	-43	-13.00	30	V
5152.5	-50.19	5.11	3	13.38	-41.92	-13.00	28.92	V

LTE FDD Band 66_Channel Bandwidth 15MHz_16QAM _ Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-43.63	4.02	3	12.45	-35.2	-13.00	22.2	H
5235	-46.94	5.11	3	13.38	-38.67	-13.00	25.67	H
3490	-50	4.02	3	12.45	-41.57	-13.00	28.57	V
5235	-47.82	5.11	3	13.38	-39.55	-13.00	26.55	V

LTE FDD Band 66_Channel Bandwidth 15MHz_16QAM _ High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3545	-43.17	4.02	3	12.21	-34.98	-13.00	21.98	H
5317.5	-47.1	5.11	3	13.26	-38.95	-13.00	25.95	H
3545	-50.6	4.02	3	12.21	-42.41	-13.00	29.41	V
5317.5	-49.45	5.11	3	13.26	-41.3	-13.00	28.3	V

LTE FDD Band 66_Channel Bandwidth 20MHz_16QAM _ Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3440.0	-44.04	4.02	3	12.5	-35.56	-13.00	22.56	H
5160.0	-49.55	5.11	3	13.38	-41.28	-13.00	28.28	H
3440.0	-50.89	4.02	3	12.5	-42.41	-13.00	29.41	V
5160.0	-48.21	5.11	3	13.38	-39.94	-13.00	26.94	V

LTE FDD Band 66_Channel Bandwidth 20MHz_16QAM _ Middle Channel

Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490	-43.85	4.02	3	12.45	-35.42	-13.00	22.42	H
5235	-47.67	5.11	3	13.38	-39.4	-13.00	26.4	H
3490	-48.89	4.02	3	12.45	-40.46	-13.00	27.46	V
5235	-47.99	5.11	3	13.38	-39.72	-13.00	26.72	V

LTE FDD Band 66_Channel Bandwidth 20MHz_16QAM _ High Channel

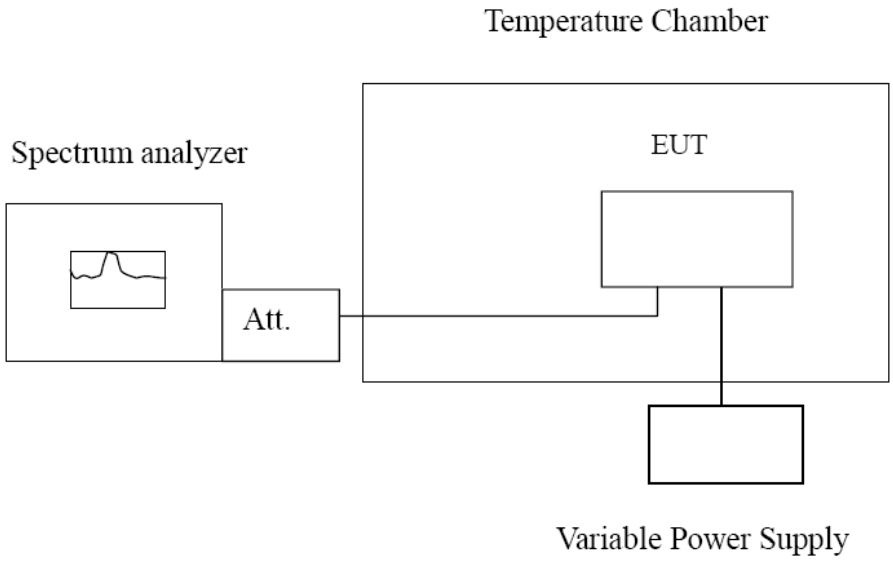
Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3540	-43.53	4.02	3	12.21	-35.34	-13.00	22.34	H
5310	-45.93	5.11	3	13.26	-37.78	-13.00	24.78	H
3540	-47.84	4.02	3	12.21	-39.65	-13.00	26.65	V
5310	-48.29	5.11	3	13.26	-40.14	-13.00	27.14	V

3.7 Frequency Stability under Temperature & Voltage Variations

LIMIT

According to §27.54, §2.1055 requirement, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation and should not exceed 2.5ppm.

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

Frequency Stability Under Temperature Variations:
In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.
1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30℃.
3. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on middle channel for LTE band 4, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10℃ increments from -30℃ to +50℃. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50℃.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 ℃ increments from +50℃ to -30℃. Allow at least 1.5 hours at each temperature, unpowered, before making measurements
9. At all temperature levels hold the temperature to +/- 0.5℃ during the measurement procedure.

Frequency Stability Under Voltage Variations:
Set chamber temperature to 20℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, record the maximum frequency change.

Remark:
1. We tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 66; recorded worst case.

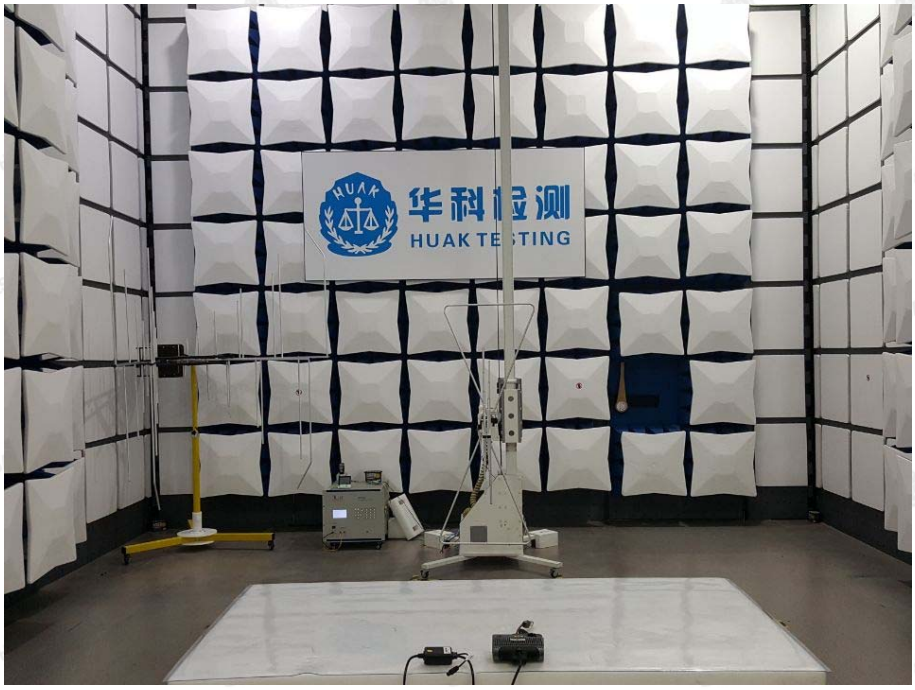
LTE Band 66, 1.4MHz bandwidth , QPSK (worst case of all bandwidths)

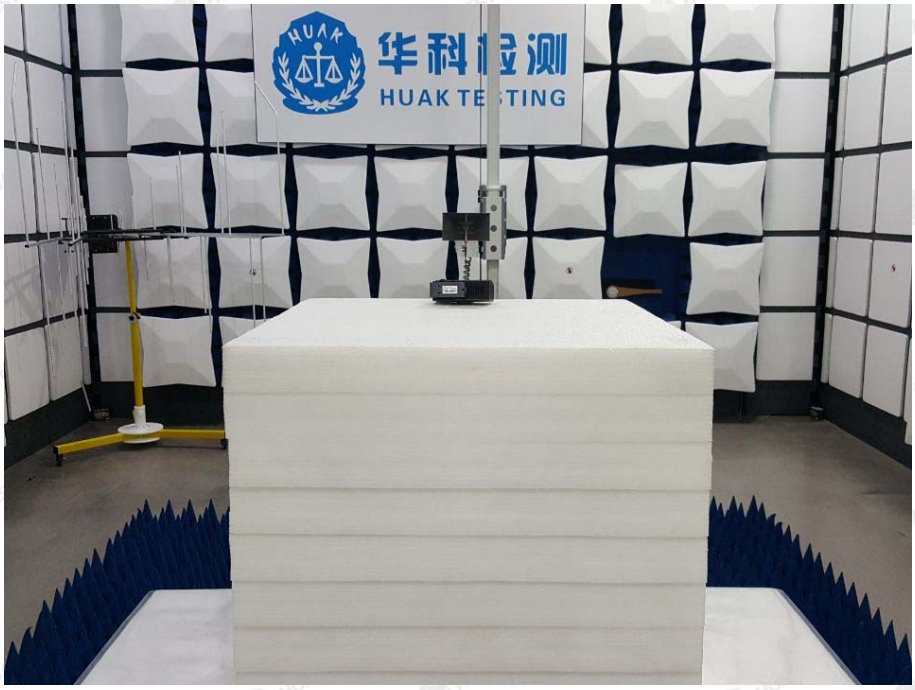
LTE FDD Band 66				
DC Power	**Temperature (℃)**	**Frequency error(Hz)**	**Frequency error(ppm)**	**Verdict**
10.2	20	5.88	0.003437	PASS
12	20	5.89	0.003443	PASS
13.8	20	6.24	0.003648	PASS
12	-30	6.62	0.003870	PASS
12	-20	6.59	0.003852	PASS
12	-10	-8.60	-0.004928	PASS
12	0	-7.30	-0.004183	PASS
12	10	-8.55	-0.004900	PASS
12	20	-7.42	-0.004252	PASS
12	30	-9.60	-0.005501	PASS
12	40	5.09	0.002861	PASS
12	50	7.20	0.004047	PASS

LTE Band 66, 1.4MHz bandwidth , 16QAM (worst case of all bandwidths)

LTE FDD Band 66				
DC Power	**Temperature (℃)**	**Frequency error(Hz)**	**Frequency error(ppm)**	**Verdict**
10.2	20	9.03	0.005279	PASS
12	20	5.99	0.003501	PASS
13.8	20	7.71	0.004507	PASS
12	-30	6.31	0.003689	PASS
12	-20	-7.62	-0.004367	PASS
12	-10	-7.60	-0.004355	PASS
12	0	-7.75	-0.004441	PASS
12	10	-7.88	-0.004516	PASS
12	20	-6.98	-0.004000	PASS
12	30	7.74	0.004350	PASS
12	40	6.97	0.003917	PASS
12	50	7.28	0.004091	PASS

4 Test Setup Photos of the EUT





5 PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

********** End of Report **********

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