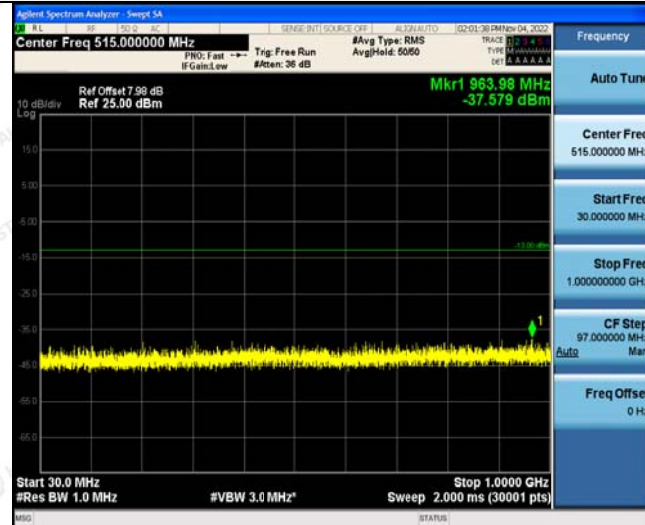
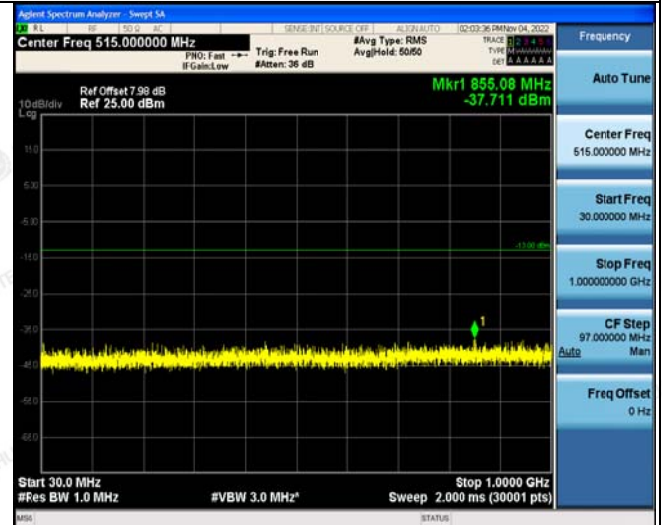


LTE FDD Band 66-15MHz Channel Bandwidth
High Channel

QPSK



16QAM



30MHz~1GHz



30MHz~1GHz



1GHz~5GHz

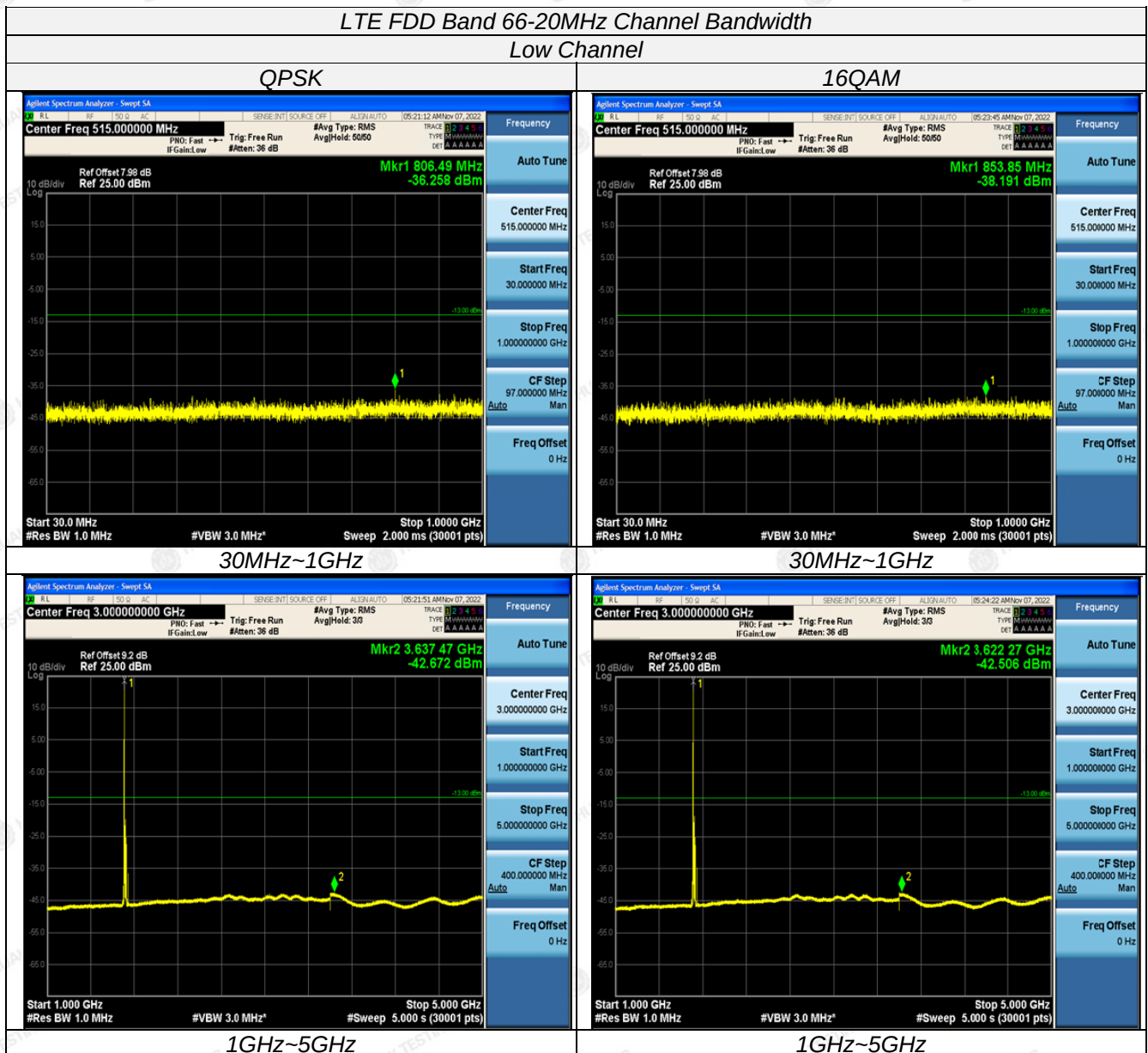


1GHz~5GHz



5GHz~12GHz

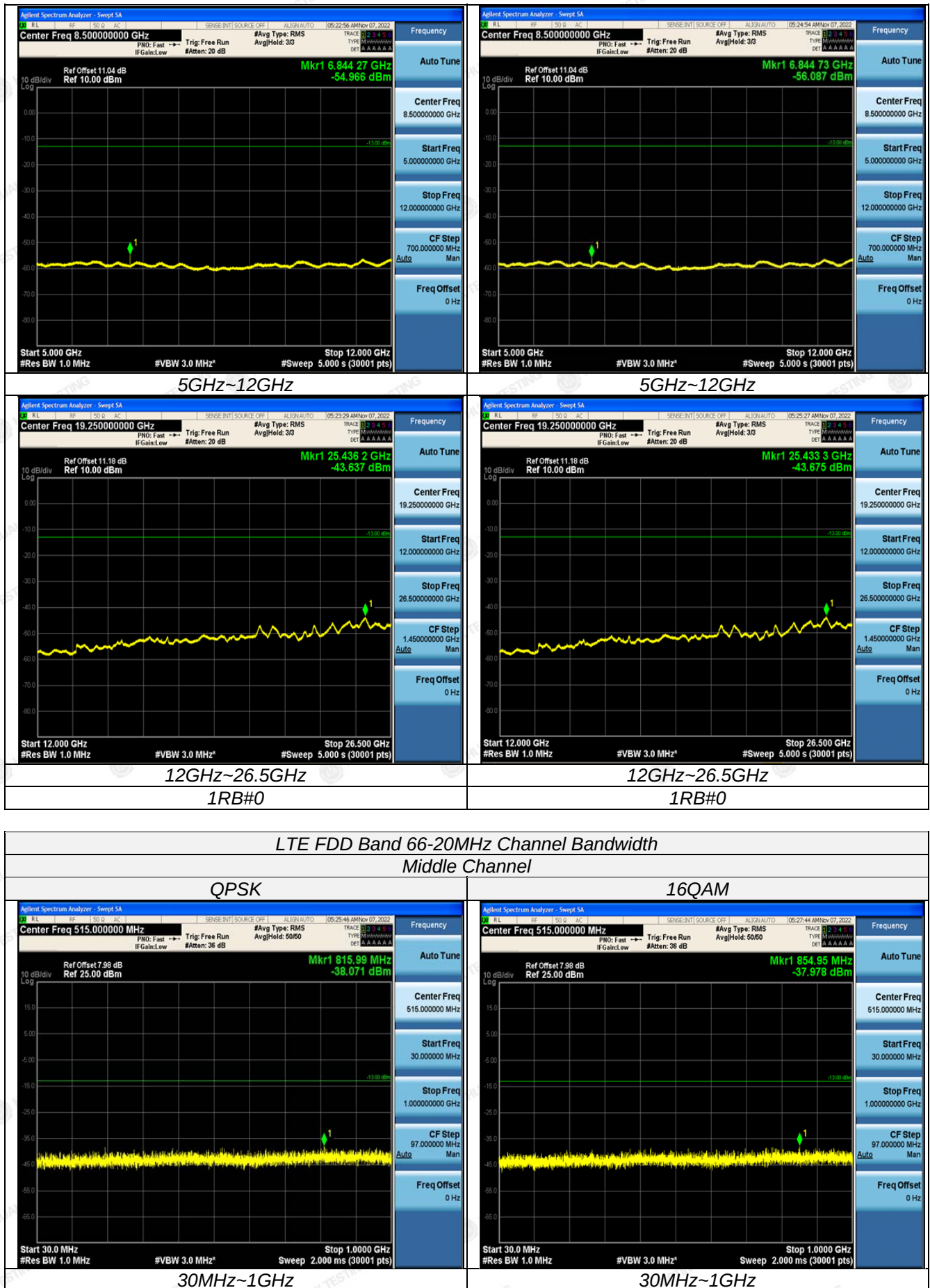
5GHz~12GHz



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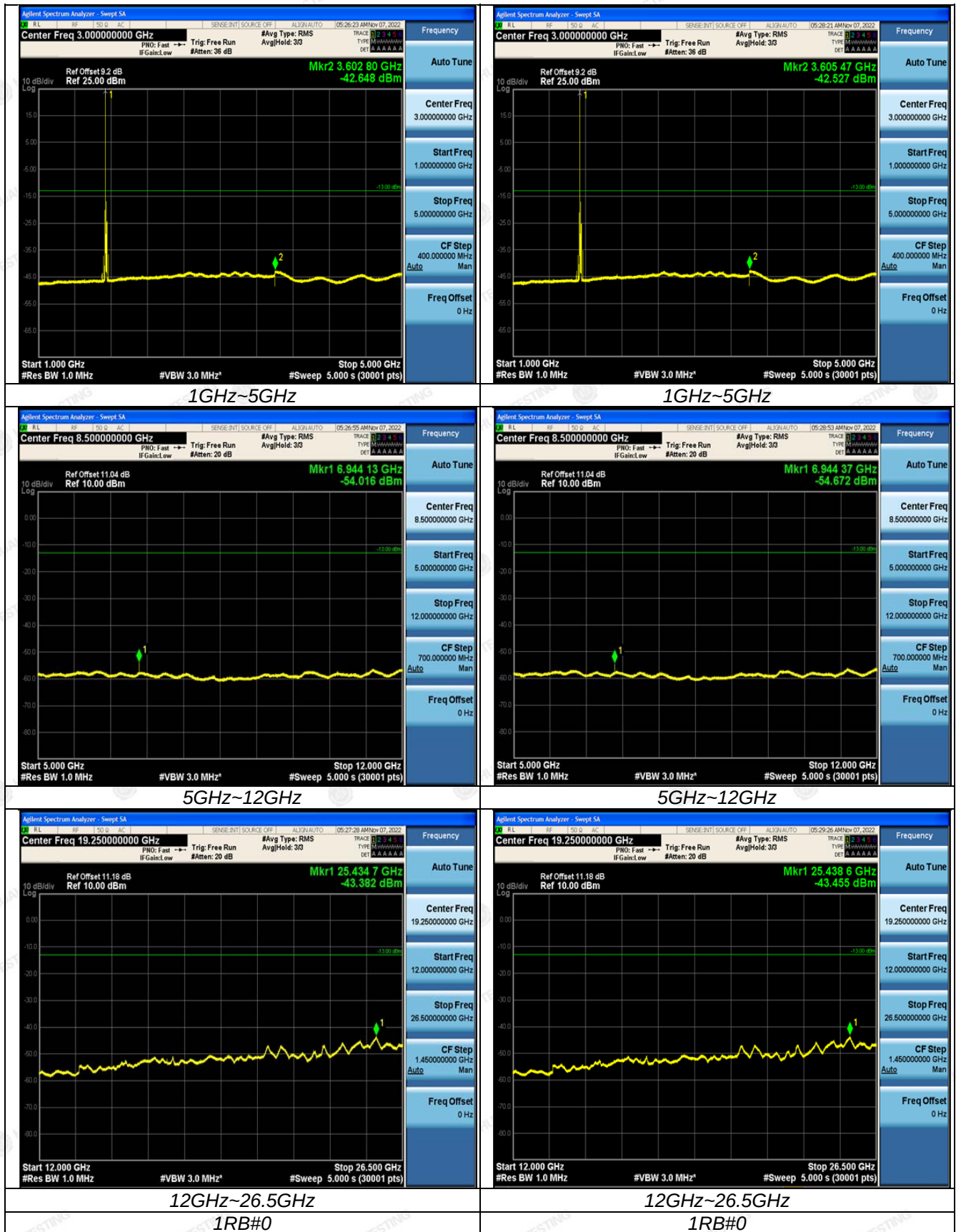
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



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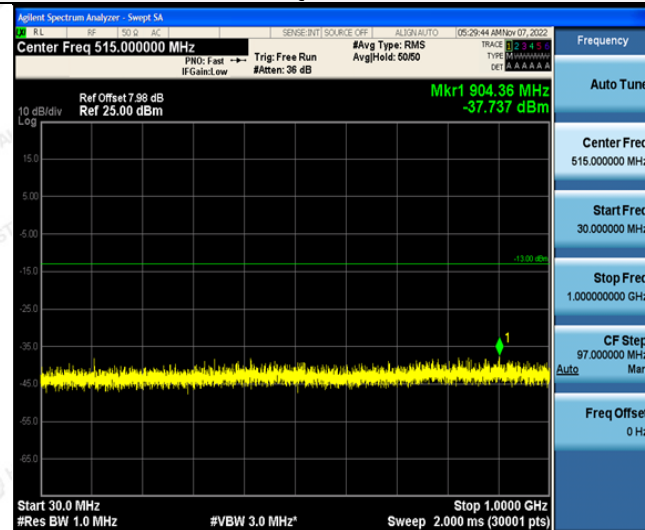
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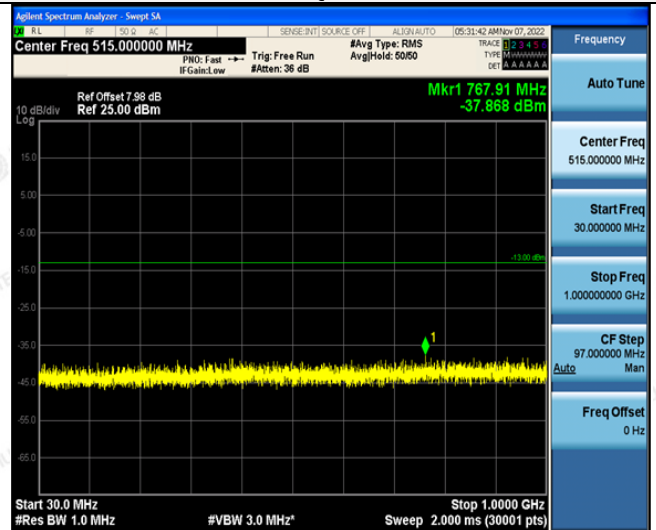


LTE FDD Band 66-20MHz Channel Bandwidth
High Channel

QPSK



16QAM



30MHz~1GHz



30MHz~1GHz



1GHz~5GHz



1GHz~5GHz



5GHz~12GHz

5GHz~12GHz



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**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	-46.52	4.02	3	12.5	-38.04	-13.00	25.04	H
5132.1	-51.9	5.11	3	13.38	-43.63	-13.00	30.63	H
3421.4	-55.21	4.02	3	12.5	-46.73	-13.00	33.73	V
5132.1	-52.71	5.11	3	13.38	-44.44	-13.00	31.44	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	-44.45	4.02	3	12.45	-36.02	-13.00	23.02	H
5235	-48.81	5.11	3	13.38	-40.54	-13.00	27.54	H
3490	-49.24	4.02	3	12.45	-40.81	-13.00	27.81	V
5235	-48.71	5.11	3	13.38	-40.44	-13.00	27.44	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	-45.24	4.02	3	12.21	-37.05	-13.00	24.05	H
5337.9	-48.1	5.11	3	13.26	-39.95	-13.00	26.95	H
3558.6	-49.95	4.02	3	12.21	-41.76	-13.00	28.76	V
5337.9	-49.43	5.11	3	13.26	-41.28	-13.00	28.28	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	-47.24	4.02	3	12.5	-38.76	-13.00	25.76	H
5134.5	-52.12	5.11	3	13.38	-43.85	-13.00	30.85	H
3423.0	-51.88	4.02	3	12.5	-43.4	-13.00	30.4	V
5134.5	-48.26	5.11	3	13.38	-39.99	-13.00	26.99	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	-45.9	4.02	3	12.45	-37.47	-13.00	24.47	H
5235	-48.38	5.11	3	13.38	-40.11	-13.00	27.11	H
3490	-51.6	4.02	3	12.45	-43.17	-13.00	30.17	V
5235	-49.28	5.11	3	13.38	-41.01	-13.00	28.01	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	-41.76	4.02	3	12.21	-33.57	-13.00	20.57	H
5335.5	-46.29	5.11	3	13.26	-38.14	-13.00	25.14	H
3557	-49.81	4.02	3	12.21	-41.62	-13.00	28.62	V
5335.5	-50.05	5.11	3	13.26	-41.9	-13.00	28.9	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	-48.38	4.02	3	12.5	-39.9	-13.00	26.9	H
5137.5	-54.76	5.11	3	13.38	-46.49	-13.00	33.49	H
3425.0	-55.71	4.02	3	12.5	-47.23	-13.00	34.23	V
5137.5	-51.53	5.11	3	13.38	-43.26	-13.00	30.26	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	-45.14	4.02	3	12.45	-36.71	-13.00	23.71	H
5235	-48.14	5.11	3	13.38	-39.87	-13.00	26.87	H
3490	-50.11	4.02	3	12.45	-41.68	-13.00	28.68	V
5235	-48.67	5.11	3	13.38	-40.4	-13.00	27.4	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	-46.09	4.02	3	12.21	-37.9	-13.00	24.9	H
5332.5	-49.01	5.11	3	13.26	-40.86	-13.00	27.86	H
3555	-49.4	4.02	3	12.21	-41.21	-13.00	28.21	V
5332.5	-50.97	5.11	3	13.26	-42.82	-13.00	29.82	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	-47.18	4.02	3	12.5	-38.7	-13.00	25.7	H
5145.0	-52.19	5.11	3	13.38	-43.92	-13.00	30.92	H
3430.0	-50	4.02	3	12.5	-41.52	-13.00	28.52	V
5145.0	-48.04	5.11	3	13.38	-39.77	-13.00	26.77	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	-45.03	4.02	3	12.45	-36.6	-13.00	23.6	H
5235	-46.7	5.11	3	13.38	-38.43	-13.00	25.43	H
3490	-49.59	4.02	3	12.45	-41.16	-13.00	28.16	V
5235	-48.54	5.11	3	13.38	-40.27	-13.00	27.27	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	-45.93	4.02	3	12.21	-37.74	-13.00	24.74	H
5325	-46.26	5.11	3	13.26	-38.11	-13.00	25.11	H
3550	-49.58	4.02	3	12.21	-41.39	-13.00	28.39	V
5325	-50.67	5.11	3	13.26	-42.52	-13.00	29.52	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	-46.04	4.02	3	12.5	-37.56	-13.00	24.56	H
5152.5	-49.48	5.11	3	13.38	-41.21	-13.00	28.21	H
3435.0	-50.82	4.02	3	12.5	-42.34	-13.00	29.34	V
5152.5	-50.31	5.11	3	13.38	-42.04	-13.00	29.04	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	-45.86	4.02	3	12.45	-37.43	-13.00	24.43	H
5235	-47.53	5.11	3	13.38	-39.26	-13.00	26.26	H
3490	-52.41	4.02	3	12.45	-43.98	-13.00	30.98	V
5235	-46.92	5.11	3	13.38	-38.65	-13.00	25.65	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	-42.87	4.02	3	12.21	-34.68	-13.00	21.68	H
5317.5	-46.31	5.11	3	13.26	-38.16	-13.00	25.16	H
3545	-49.15	4.02	3	12.21	-40.96	-13.00	27.96	V
5317.5	-48.26	5.11	3	13.26	-40.11	-13.00	27.11	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	-46.19	4.02	3	12.5	-37.71	-13.00	24.71	H
5160.0	-55.35	5.11	3	13.38	-47.08	-13.00	34.08	H
3440.0	-54.28	4.02	3	12.5	-45.8	-13.00	32.8	V
5160.0	-49.63	5.11	3	13.38	-41.36	-13.00	28.36	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	-45.72	4.02	3	12.45	-37.29	-13.00	24.29	H
5235	-46.66	5.11	3	13.38	-38.39	-13.00	25.39	H
3490	-51.94	4.02	3	12.45	-43.51	-13.00	30.51	V
5235	-50.31	5.11	3	13.38	-42.04	-13.00	29.04	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	-43.66	4.02	3	12.21	-35.47	-13.00	22.47	H
5310	-45.44	5.11	3	13.26	-37.29	-13.00	24.29	H
3540	-48.27	4.02	3	12.21	-40.08	-13.00	27.08	V
5310	-48.25	5.11	3	13.26	-40.1	-13.00	27.1	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	-48.64	4.02	3	12.5	-40.16	-13.00	27.16	H
5132.1	-52.81	5.11	3	13.38	-44.54	-13.00	31.54	H
3421.4	-51.64	4.02	3	12.5	-43.16	-13.00	30.16	V
5132.1	-52.7	5.11	3	13.38	-44.43	-13.00	31.43	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	-43.89	4.02	3	12.45	-35.46	-13.00	22.46	H
5235	-47.21	5.11	3	13.38	-38.94	-13.00	25.94	H
3490	-50.92	4.02	3	12.45	-42.49	-13.00	29.49	V
5235	-48.52	5.11	3	13.38	-40.25	-13.00	27.25	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	-43.39	4.02	3	12.21	-35.2	-13.00	22.2	H
5337.9	-46.21	5.11	3	13.26	-38.06	-13.00	25.06	H
3558.6	-48.96	4.02	3	12.21	-40.77	-13.00	27.77	V
5337.9	-49.27	5.11	3	13.26	-41.12	-13.00	28.12	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	-47.28	4.02	3	12.5	-38.8	-13.00	25.8	H
5134.5	-52.62	5.11	3	13.38	-44.35	-13.00	31.35	H
3423.0	-53.92	4.02	3	12.5	-45.44	-13.00	32.44	V
5134.5	-49.34	5.11	3	13.38	-41.07	-13.00	28.07	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	-44.29	4.02	3	12.45	-35.86	-13.00	22.86	H
5235	-47.2	5.11	3	13.38	-38.93	-13.00	25.93	H
3490	-49.55	4.02	3	12.45	-41.12	-13.00	28.12	V
5235	-48.11	5.11	3	13.38	-39.84	-13.00	26.84	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	-43.2	4.02	3	12.21	-35.01	-13.00	22.01	H
5335.5	-47.07	5.11	3	13.26	-38.92	-13.00	25.92	H
3557	-47.2	4.02	3	12.21	-39.01	-13.00	26.01	V
5335.5	-50.14	5.11	3	13.26	-41.99	-13.00	28.99	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	-48.09	4.02	3	12.5	-39.61	-13.00	26.61	H
5137.5	-52.18	5.11	3	13.38	-43.91	-13.00	30.91	H
3425.0	-49.03	4.02	3	12.5	-40.55	-13.00	27.55	V
5137.5	-52.69	5.11	3	13.38	-44.42	-13.00	31.42	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	-44.53	4.02	3	12.45	-36.1	-13.00	23.1	H
5235	-48.26	5.11	3	13.38	-39.99	-13.00	26.99	H
3490	-50.46	4.02	3	12.45	-42.03	-13.00	29.03	V
5235	-47.59	5.11	3	13.38	-39.32	-13.00	26.32	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	-41.9	4.02	3	12.21	-33.71	-13.00	20.71	H
5332.5	-47.05	5.11	3	13.26	-38.9	-13.00	25.9	H
3555	-48.9	4.02	3	12.21	-40.71	-13.00	27.71	V
5332.5	-49.44	5.11	3	13.26	-41.29	-13.00	28.29	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	-46.8	4.02	3	12.5	-38.32	-13.00	25.32	H
5145.0	-53.07	5.11	3	13.38	-44.8	-13.00	31.8	H
3430.0	-50.42	4.02	3	12.5	-41.94	-13.00	28.94	V
5145.0	-49.45	5.11	3	13.38	-41.18	-13.00	28.18	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	-43.54	4.02	3	12.45	-35.11	-13.00	22.11	H
5235	-47.68	5.11	3	13.38	-39.41	-13.00	26.41	H
3490	-50.05	4.02	3	12.45	-41.62	-13.00	28.62	V
5235	-47.67	5.11	3	13.38	-39.4	-13.00	26.4	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	-43.99	4.02	3	12.21	-35.8	-13.00	22.8	H
5325	-46.57	5.11	3	13.26	-38.42	-13.00	25.42	H
3550	-47.71	4.02	3	12.21	-39.52	-13.00	26.52	V
5325	-50.42	5.11	3	13.26	-42.27	-13.00	29.27	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	-46.75	4.02	3	12.5	-38.27	-13.00	25.27	H
5152.5	-53.37	5.11	3	13.38	-45.1	-13.00	32.1	H
3435.0	-52.34	4.02	3	12.5	-43.86	-13.00	30.86	V
5152.5	-49.66	5.11	3	13.38	-41.39	-13.00	28.39	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	-44.22	4.02	3	12.45	-35.79	-13.00	22.79	H
5235	-46.95	5.11	3	13.38	-38.68	-13.00	25.68	H
3490	-49.45	4.02	3	12.45	-41.02	-13.00	28.02	V
5235	-46.99	5.11	3	13.38	-38.72	-13.00	25.72	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	-43.02	4.02	3	12.21	-34.83	-13.00	21.83	H
5317.5	-47.2	5.11	3	13.26	-39.05	-13.00	26.05	H
3545	-50.49	4.02	3	12.21	-42.3	-13.00	29.3	V
5317.5	-49.96	5.11	3	13.26	-41.81	-13.00	28.81	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	-45.42	4.02	3	12.5	-36.94	-13.00	23.94	H
5160.0	-51.02	5.11	3	13.38	-42.75	-13.00	29.75	H
3440.0	-51.39	4.02	3	12.5	-42.91	-13.00	29.91	V
5160.0	-48.67	5.11	3	13.38	-40.4	-13.00	27.4	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	-43.15	4.02	3	12.45	-34.72	-13.00	21.72	H
5235	-47.98	5.11	3	13.38	-39.71	-13.00	26.71	H
3490	-49.36	4.02	3	12.45	-40.93	-13.00	27.93	V
5235	-48.75	5.11	3	13.38	-40.48	-13.00	27.48	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	-42.53	4.02	3	12.21	-34.34	-13.00	21.34	H
5310	-45.78	5.11	3	13.26	-37.63	-13.00	24.63	H
3540	-47.44	4.02	3	12.21	-39.25	-13.00	26.25	V
5310	-47.24	5.11	3	13.26	-39.09	-13.00	26.09	V

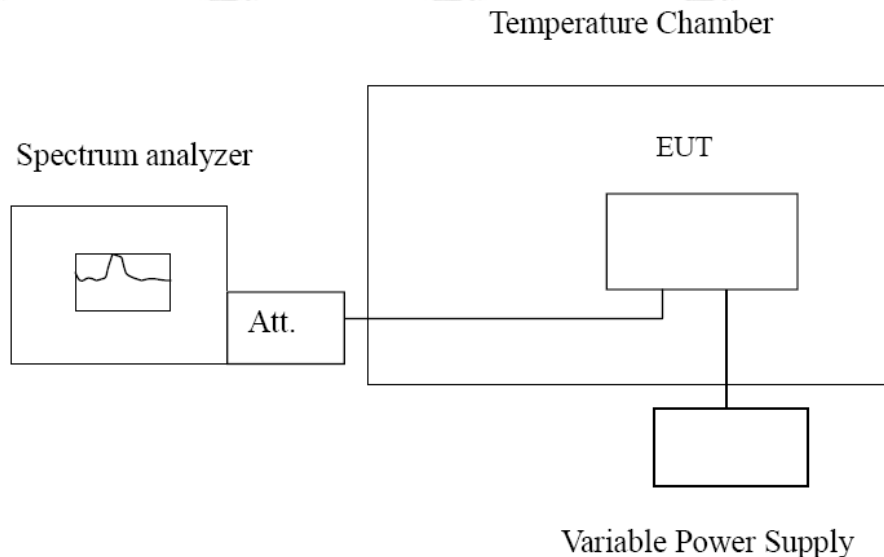


3.6 Frequency Stability under Temperature & Voltage Variations

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°C.
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°C increments from -30°C to +50°C. 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°C.
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 °C increments from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. 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 ($\pm 15\%$) and endpoint, record the maximum frequency change.

**TEST RESULTS**

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)

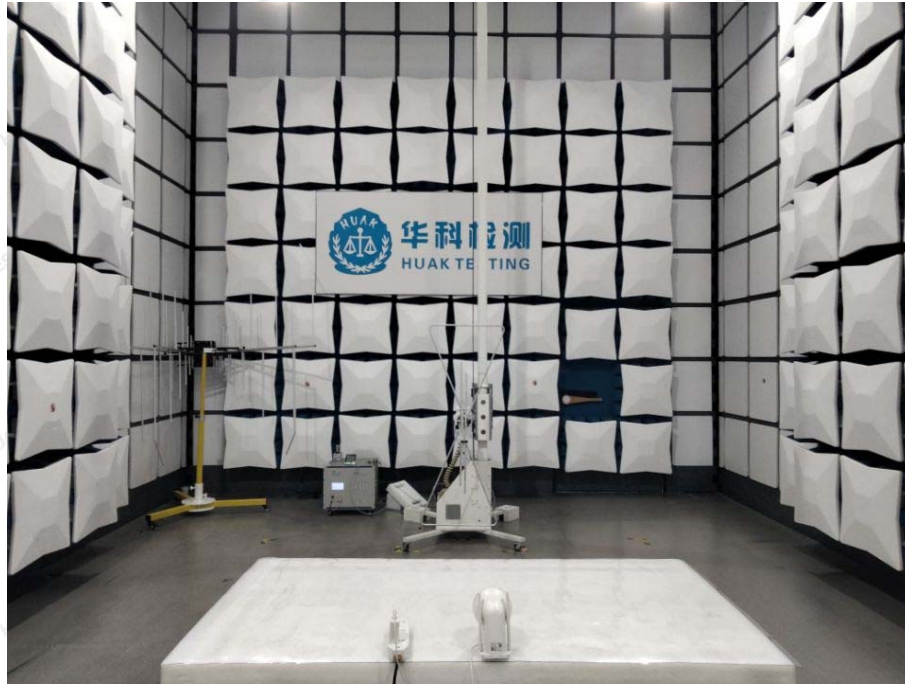
LTE FDD Band 66				
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Verdict
4.25	20	5.69	0.003326	PASS
5.0	20	7.08	0.004139	PASS
5.75	20	6.68	0.003905	PASS
5.0	-30	-3.36	-0.001964	PASS
5.0	-20	5.41	0.003162	PASS
5.0	-10	7.14	0.004174	PASS
5.0	0	-5.61	-0.003279	PASS
5.0	10	4.19	0.002449	PASS
5.0	20	4.59	0.002683	PASS
5.0	30	-6.35	-0.003639	PASS
5.0	40	-7.37	-0.004223	PASS
5.0	50	-6.22	-0.003564	PASS

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

LTE FDD Band 66				
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Verdict
4.25	20	2.10	0.001228	PASS
5.0	20	-3.25	-0.001900	PASS
5.75	20	-3.13	-0.001830	PASS
5.0	-30	3.95	0.002309	PASS
5.0	-20	4.43	0.002590	PASS
5.0	-10	5.61	0.003279	PASS
5.0	0	-2.93	-0.001713	PASS
5.0	10	4.82	0.002818	PASS
5.0	20	4.26	0.002490	PASS
5.0	30	-7.94	-0.004550	PASS
5.0	40	-6.28	-0.003599	PASS
5.0	50	-6.71	-0.003845	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.....

