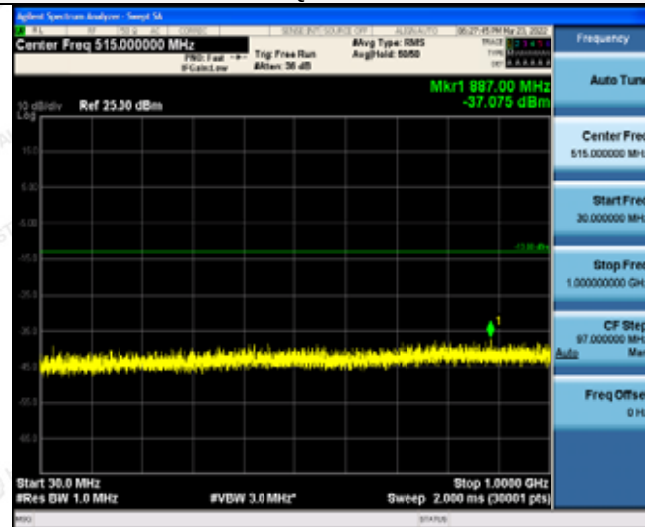
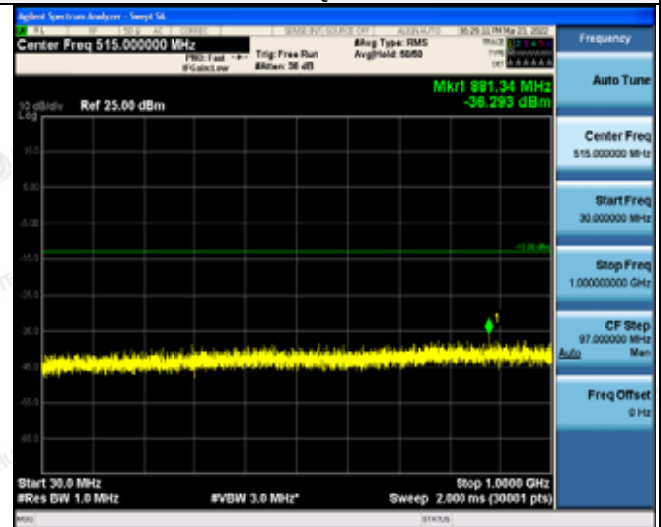


LTE FDD Band 66-3MHz Channel Bandwidth
Low Channel

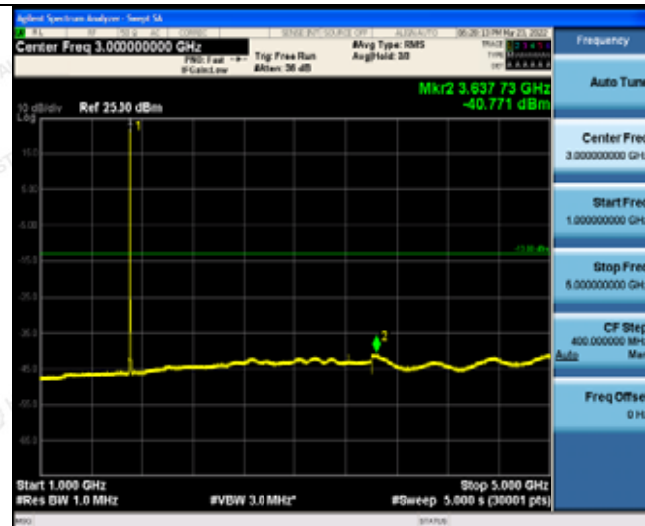
QPSK



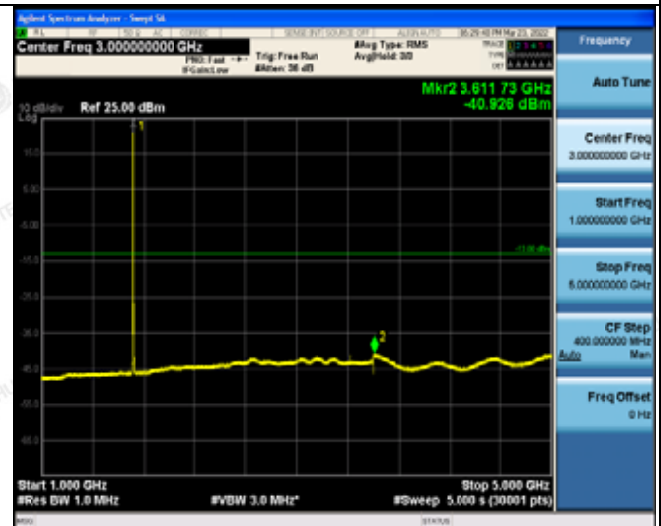
16QAM



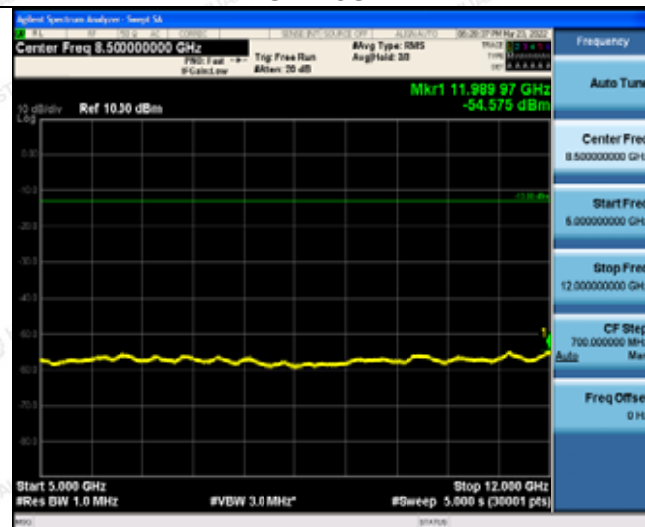
30MHz~1GHz



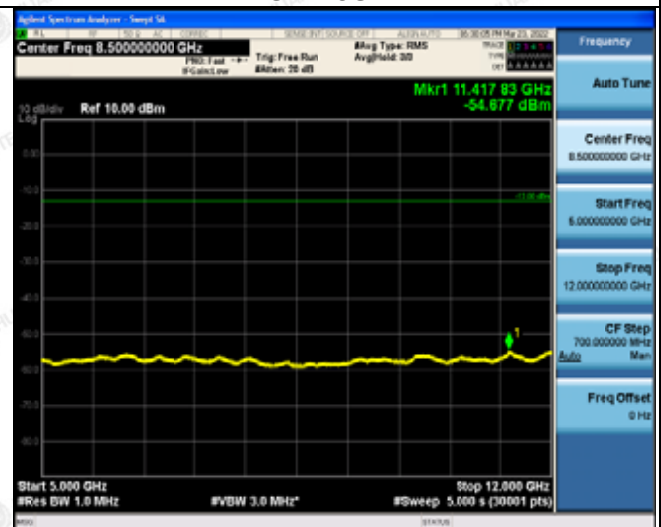
30MHz~1GHz



1GHz~5GHz

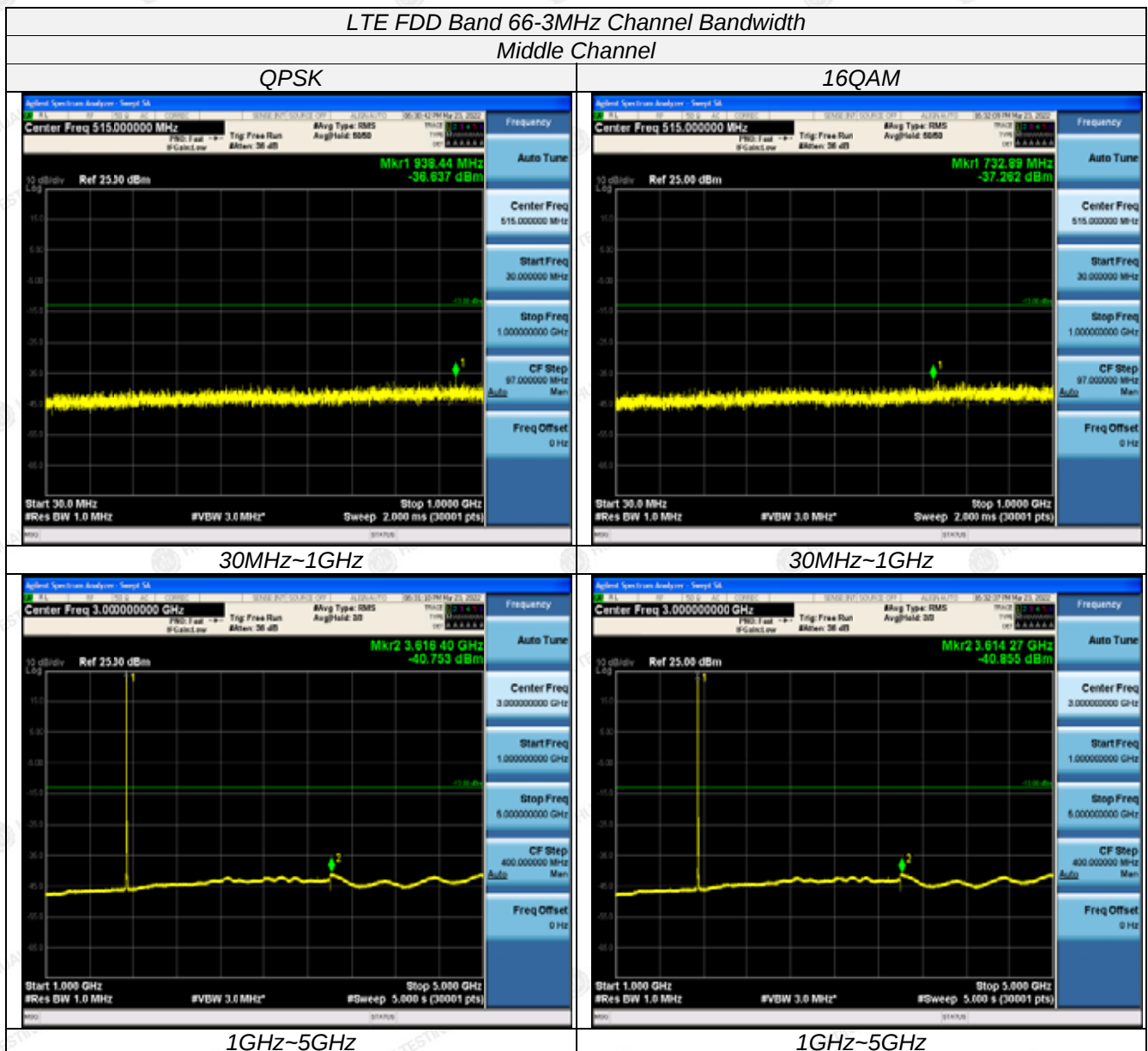
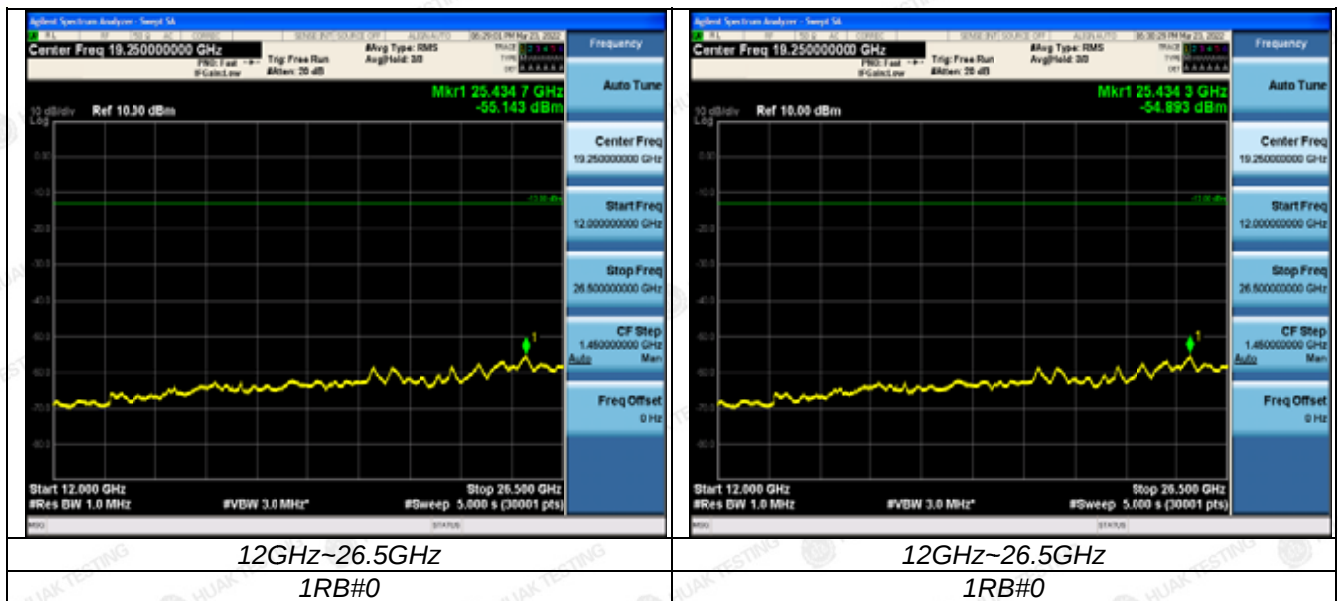


1GHz~5GHz



5GHz~12GHz

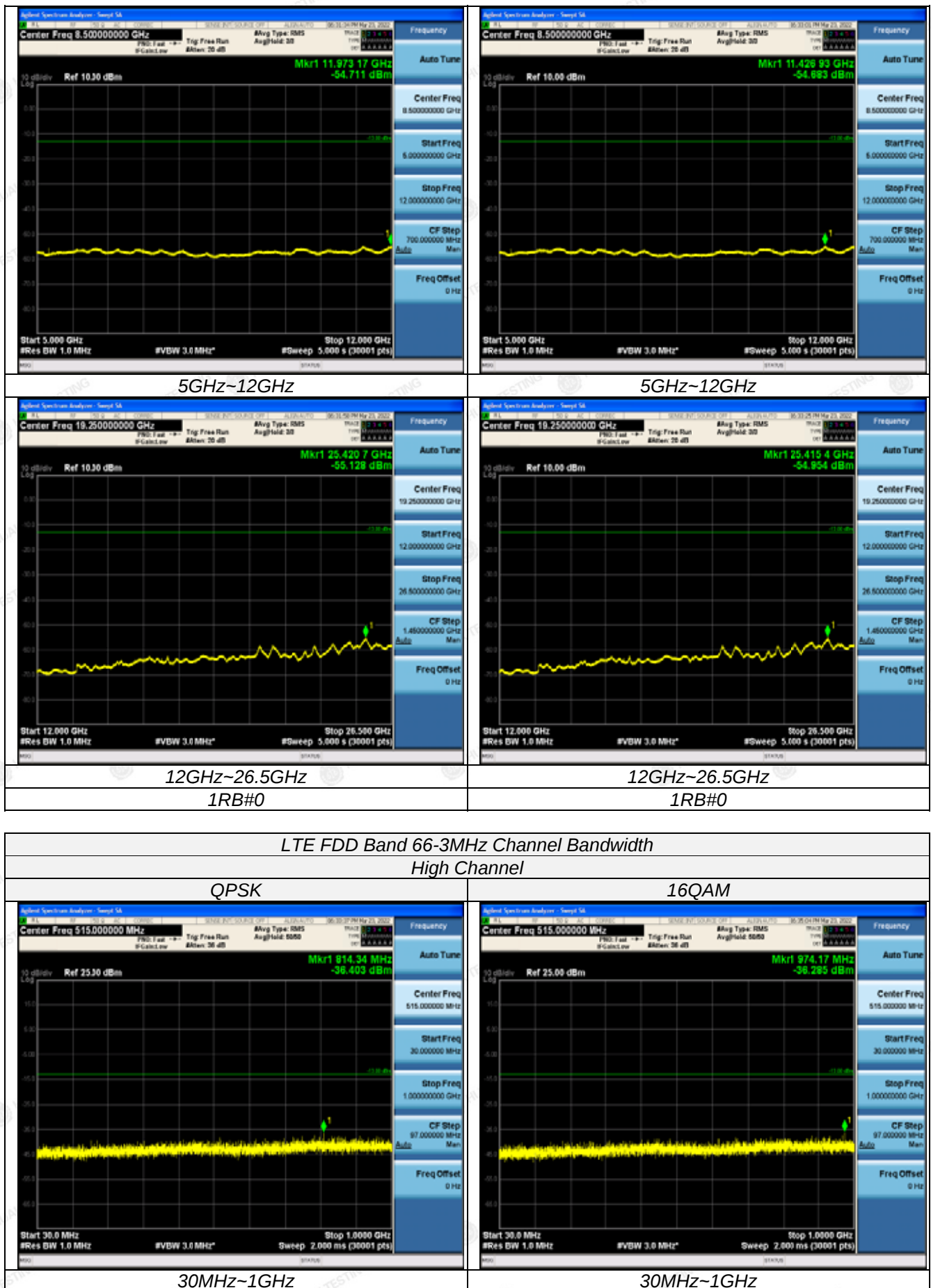
5GHz~12GHz



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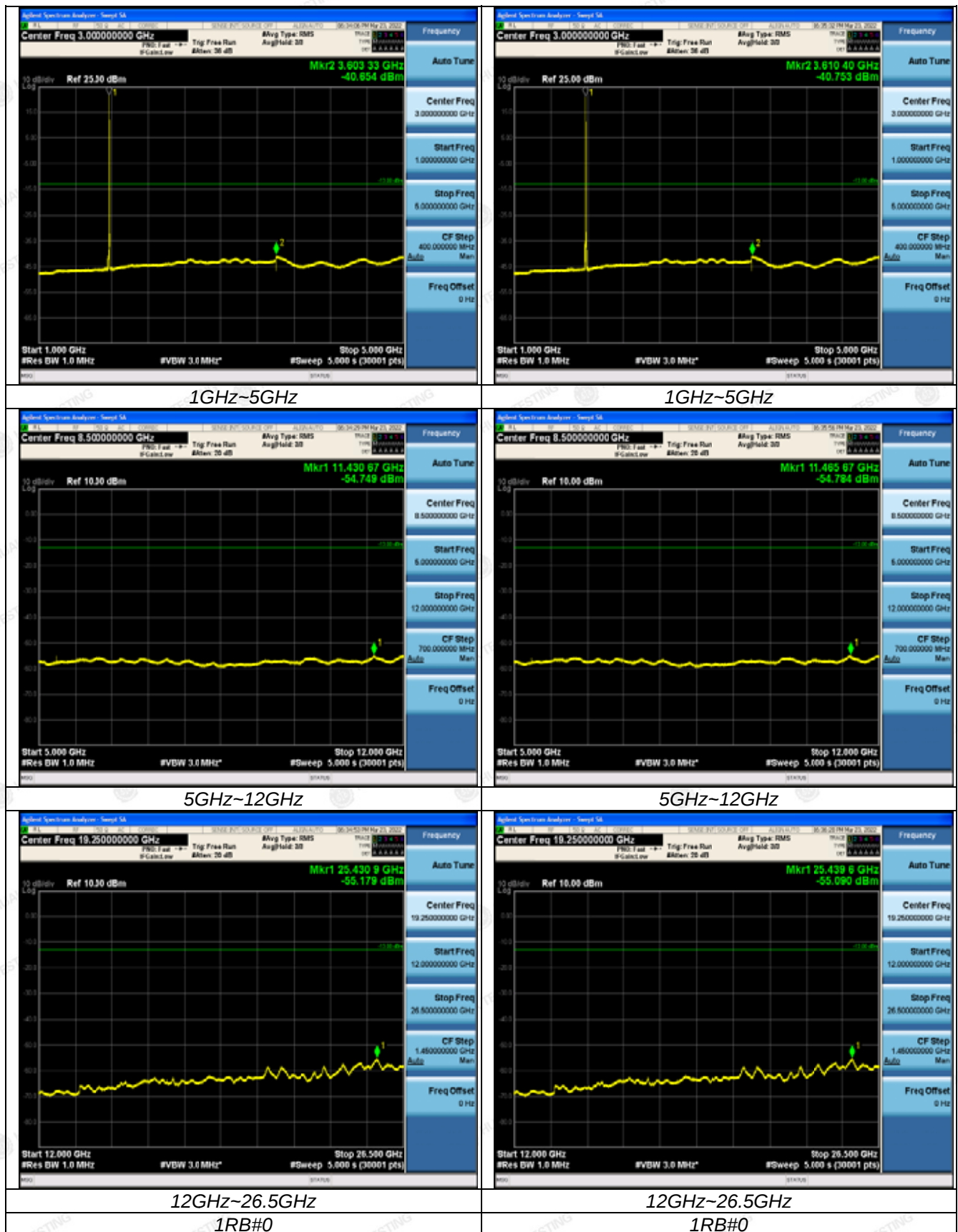
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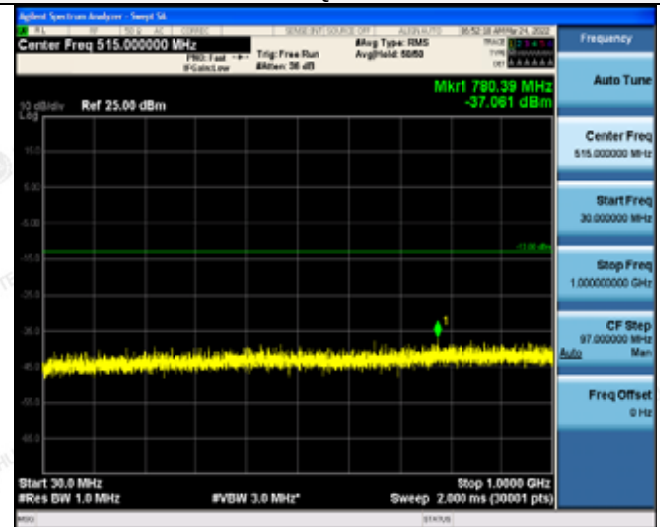
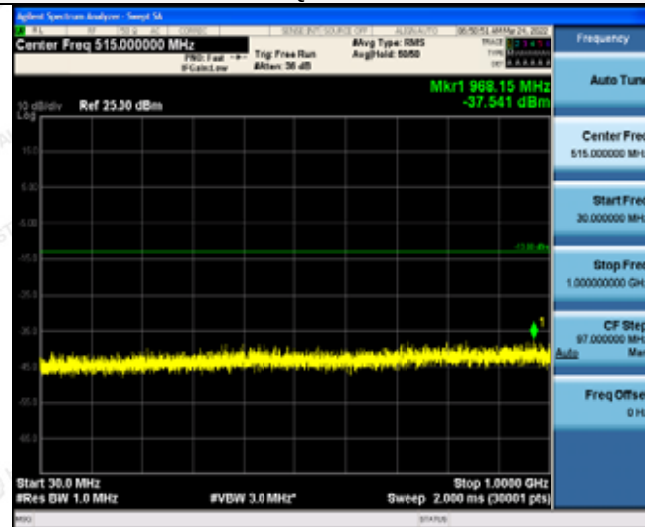
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LTE FDD Band 66-5MHz Channel Bandwidth
Low Channel

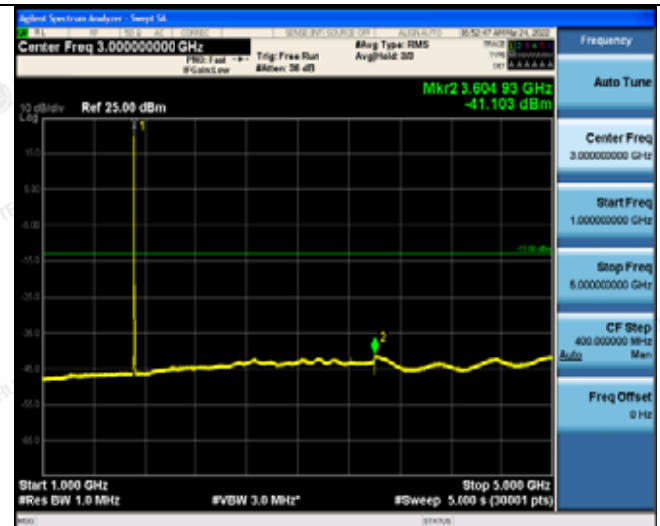
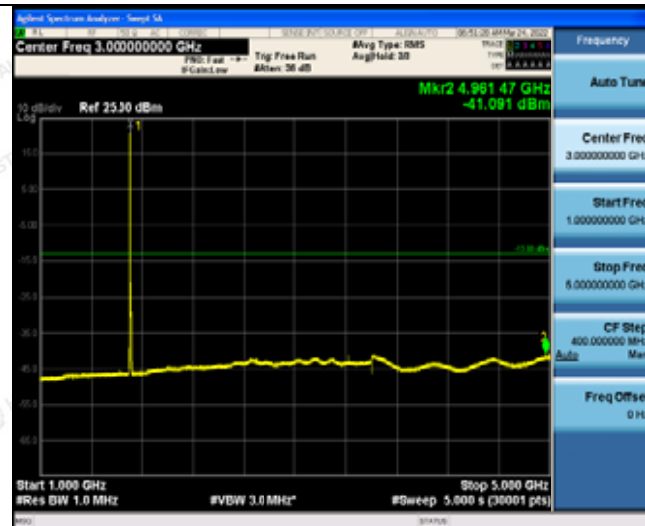
QPSK

16QAM



30MHz~1GHz

30MHz~1GHz



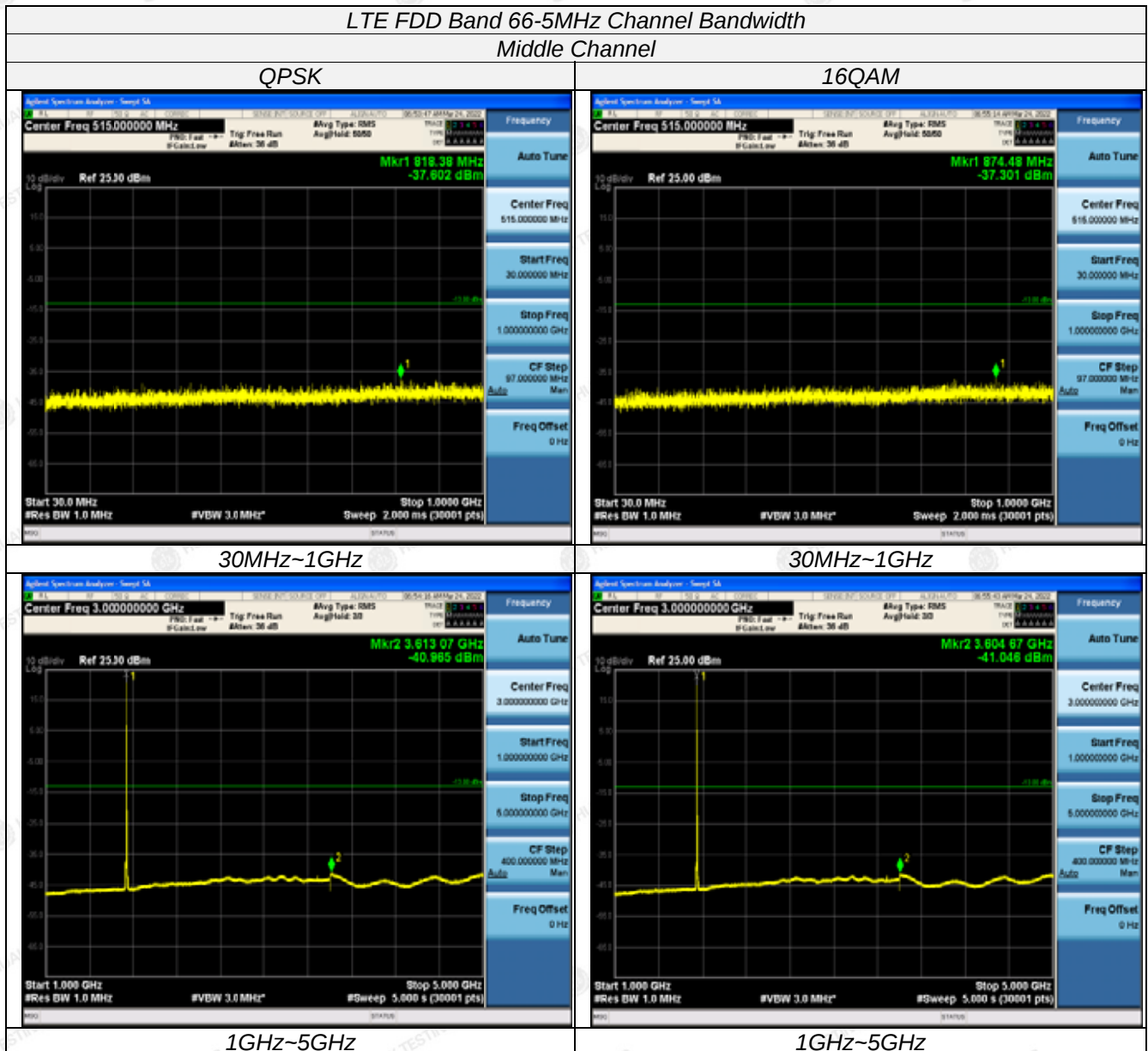
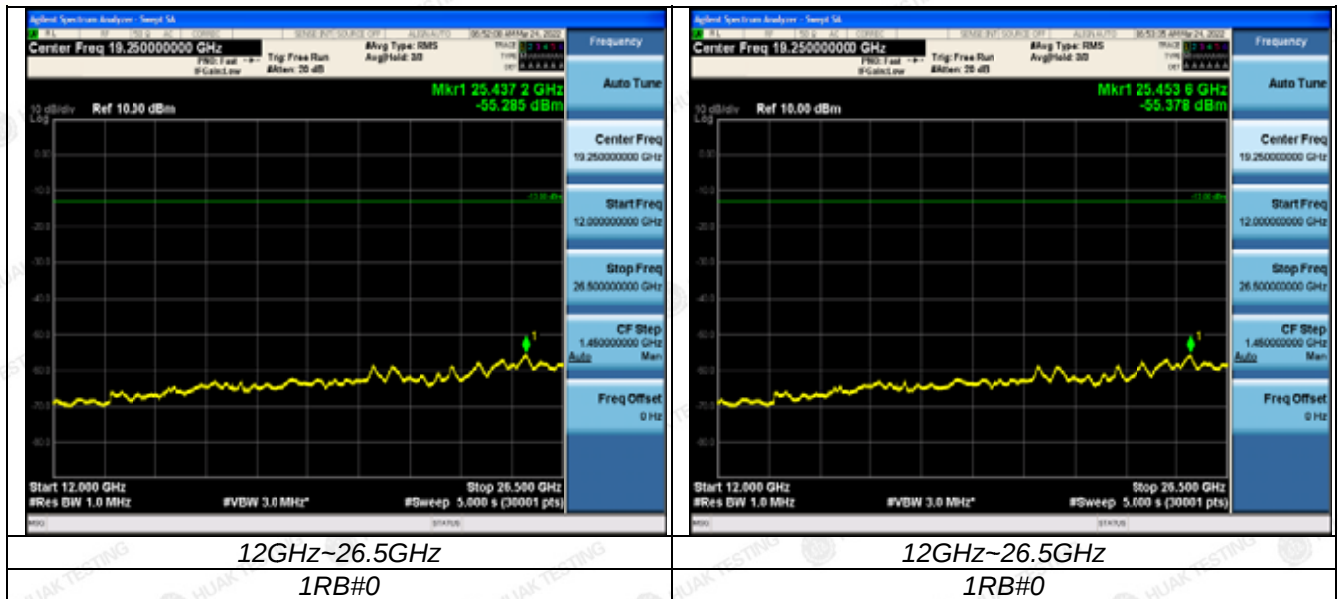
1GHz~5GHz

1GHz~5GHz



5GHz~12GHz

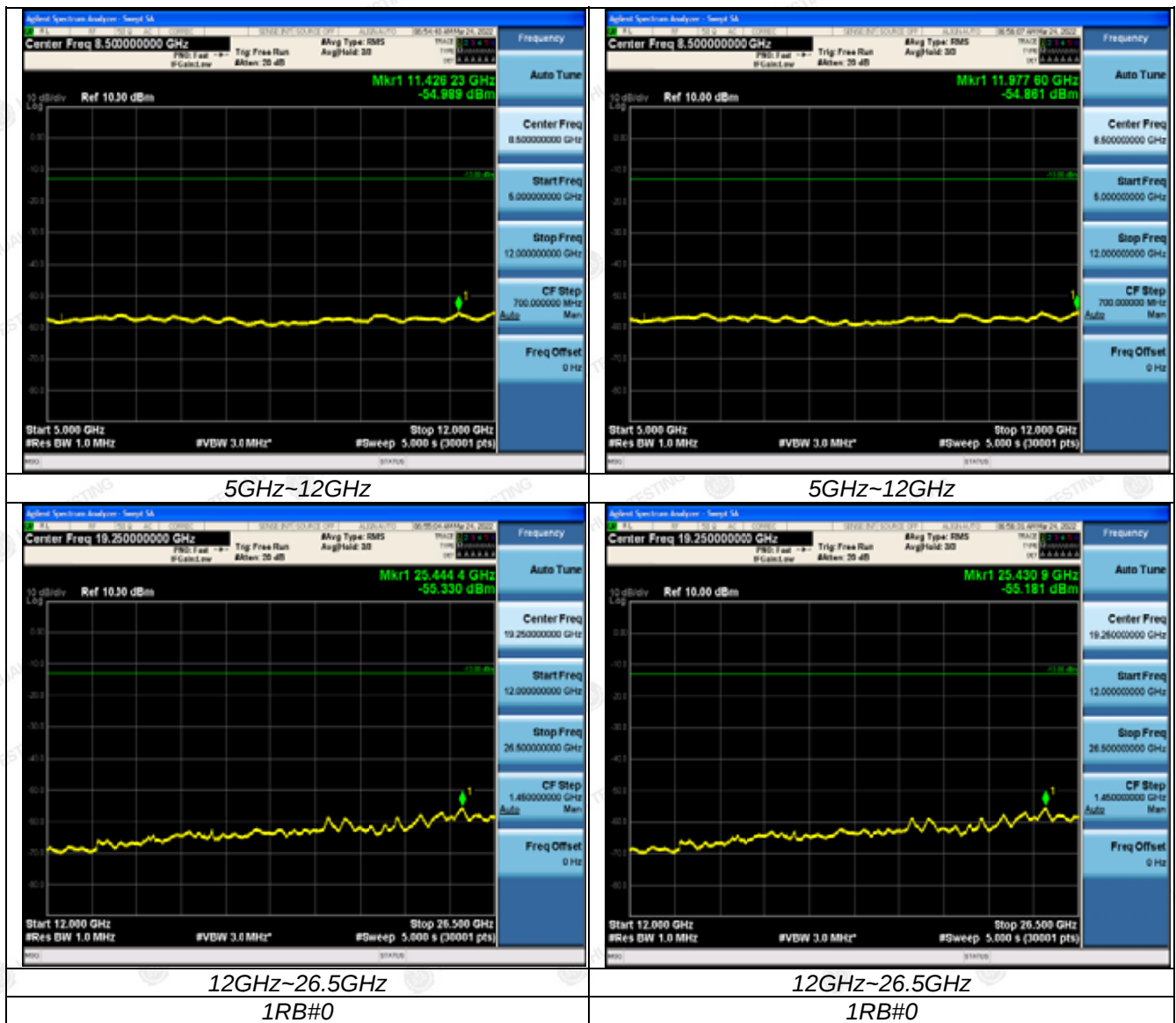
5GHz~12GHz



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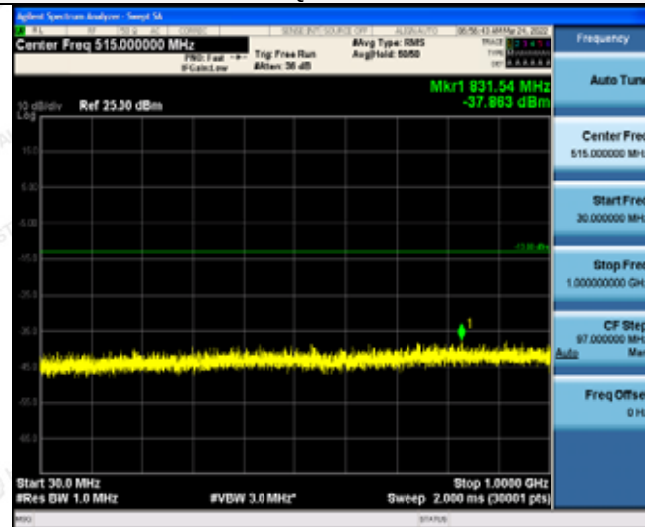
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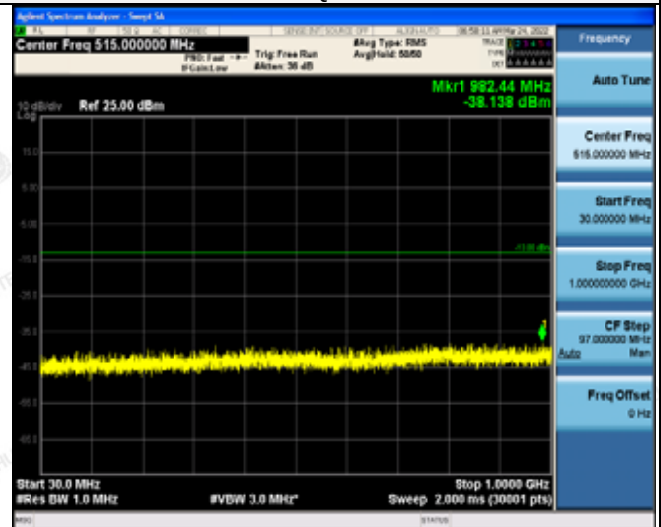


LTE FDD Band 66-5MHz Channel Bandwidth
High Channel

QPSK



16QAM



30MHz~1GHz



30MHz~1GHz



1GHz~5GHz

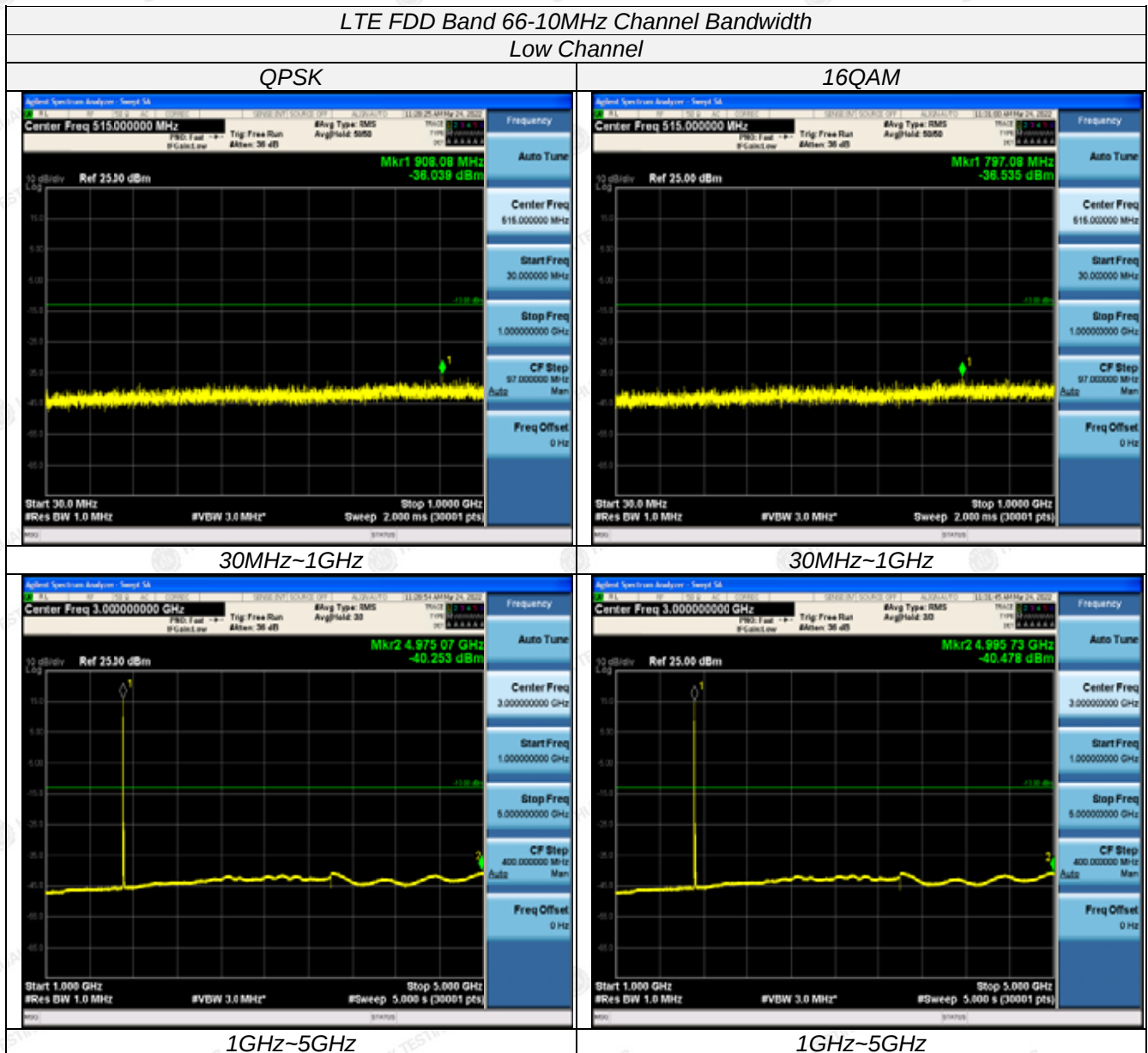
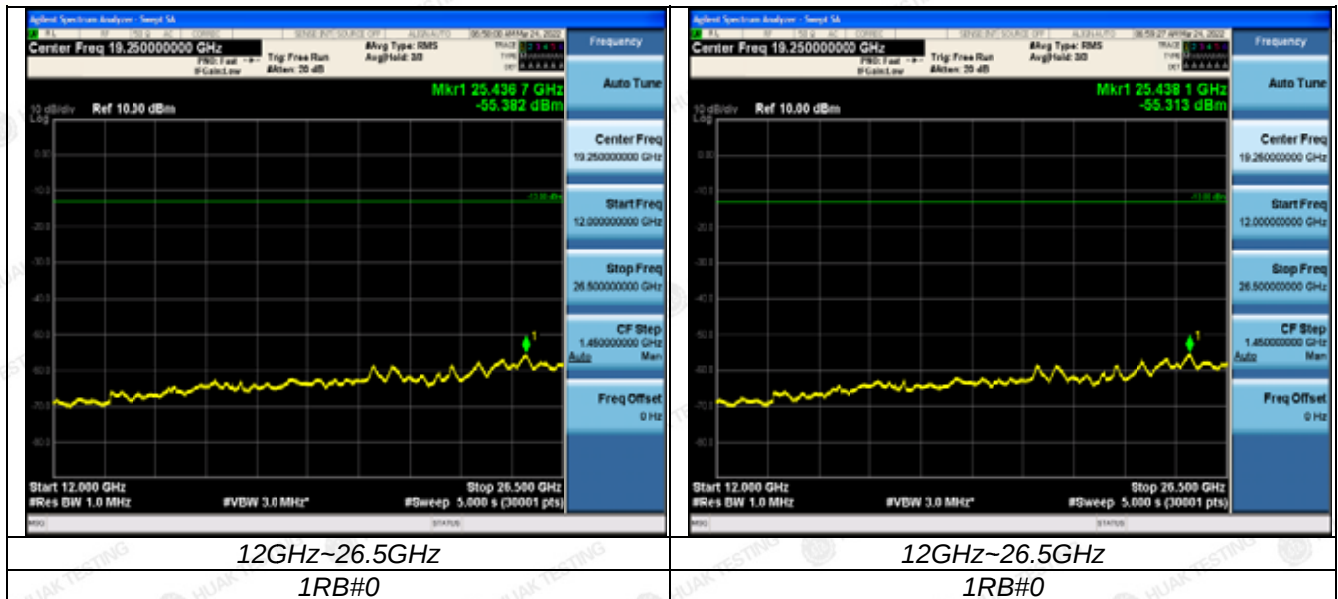


1GHz~5GHz



5GHz~12GHz

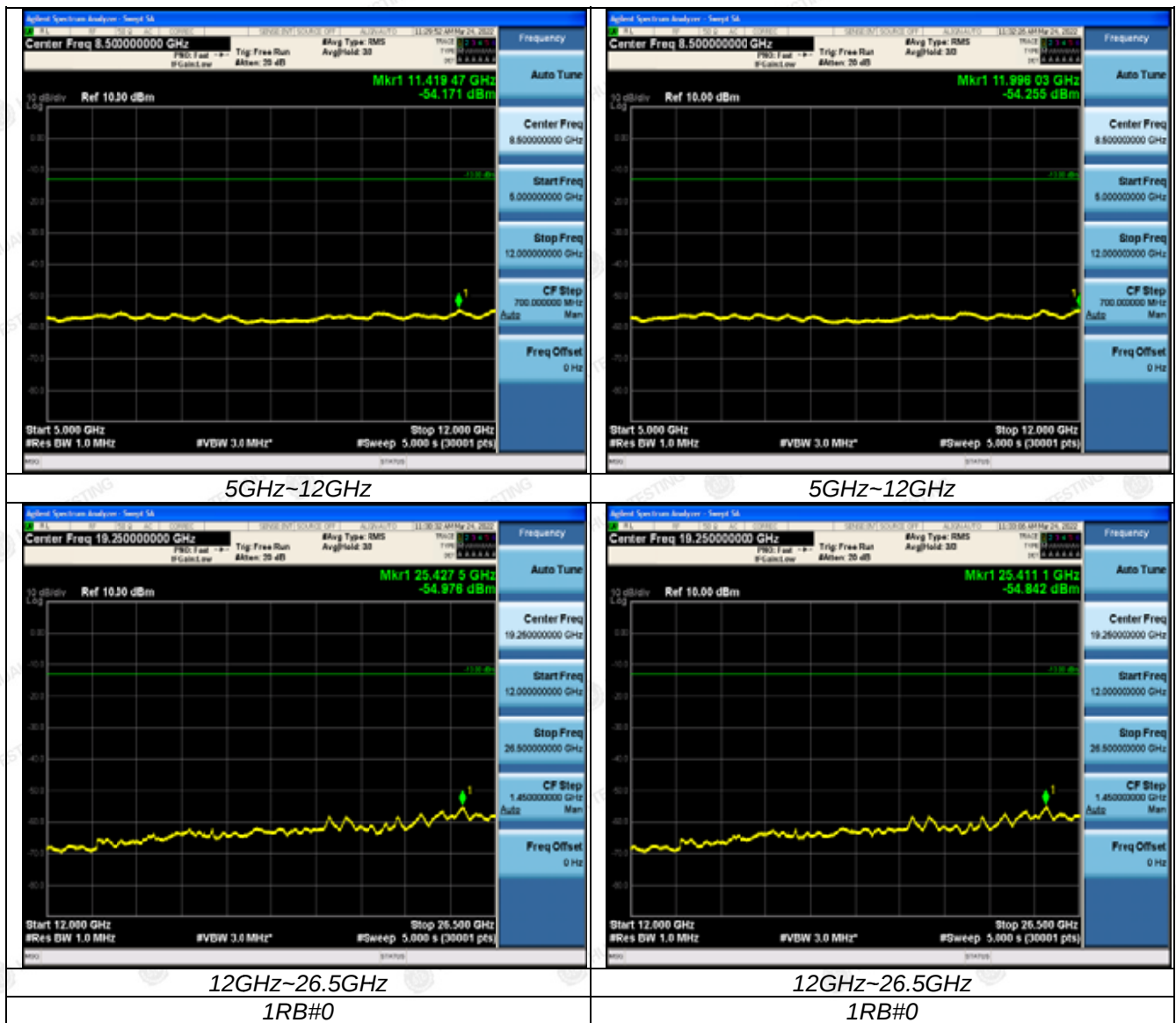
5GHz~12GHz



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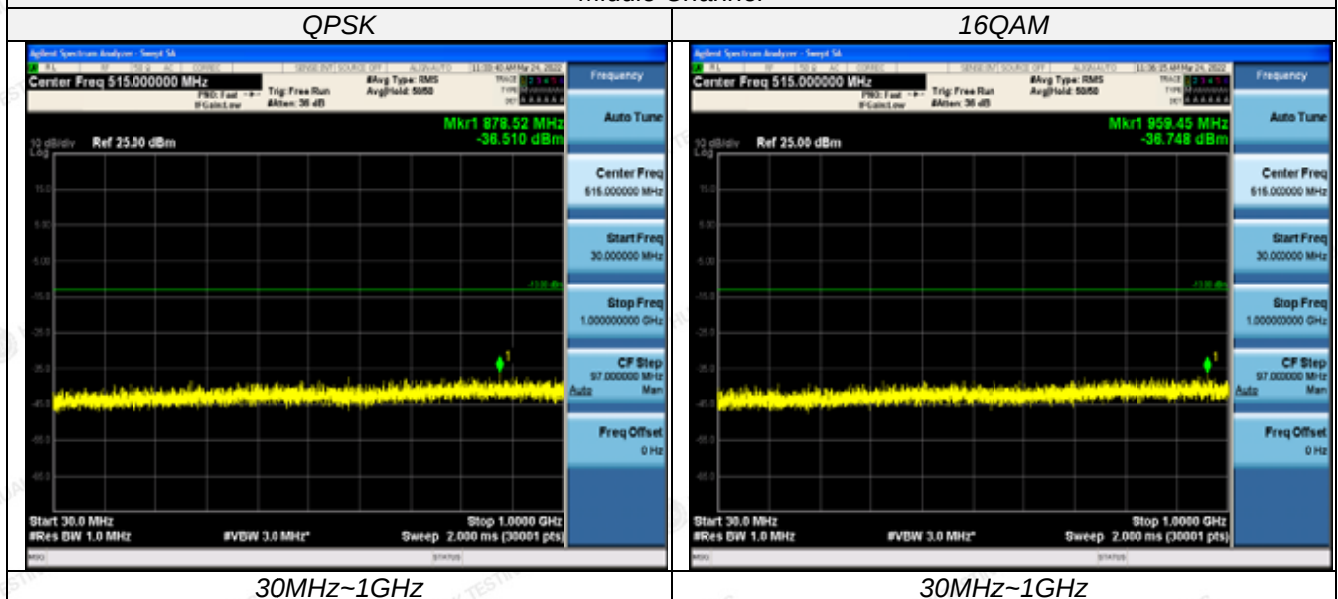
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LTE FDD Band 66-10MHz Channel Bandwidth

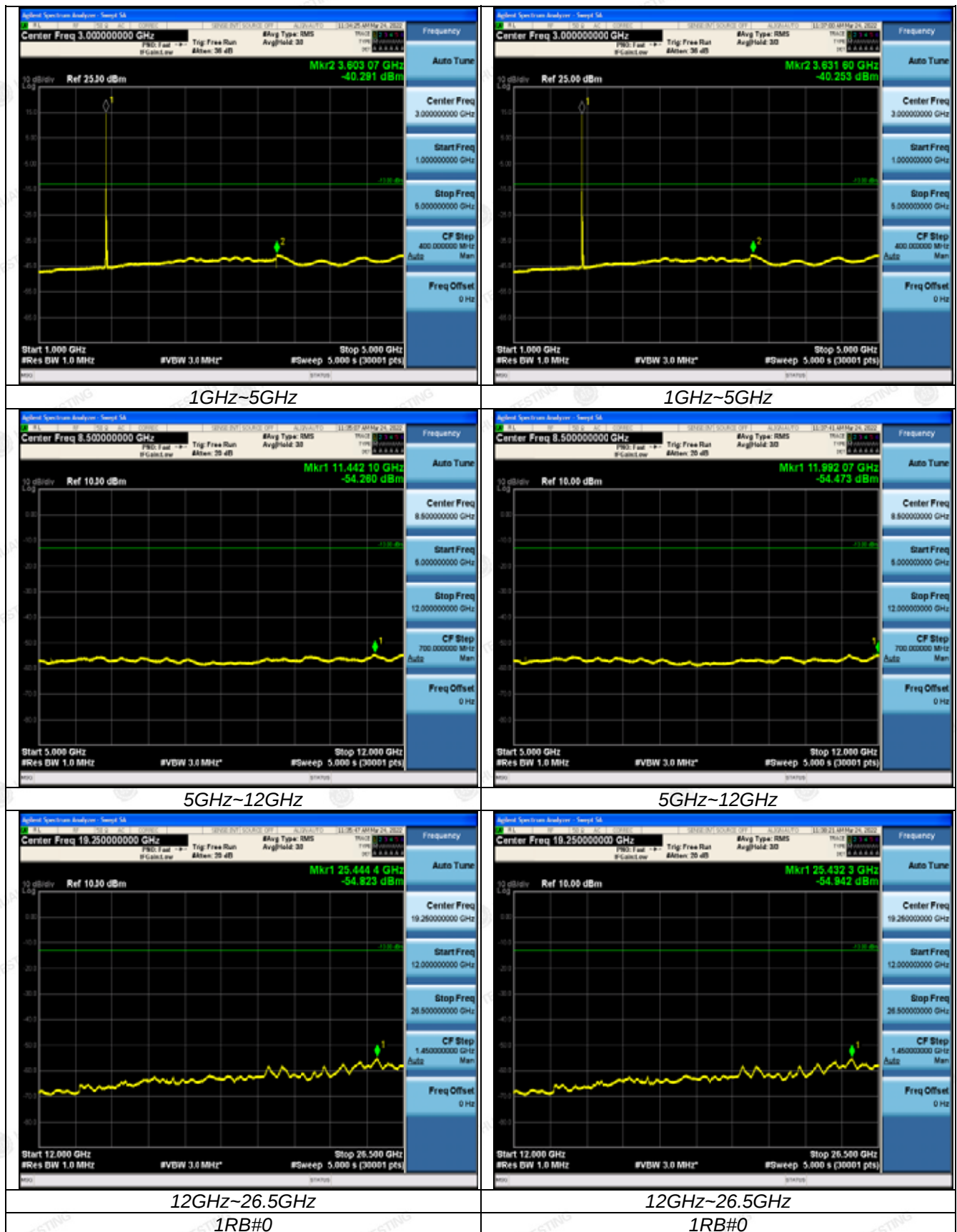
Middle Channel



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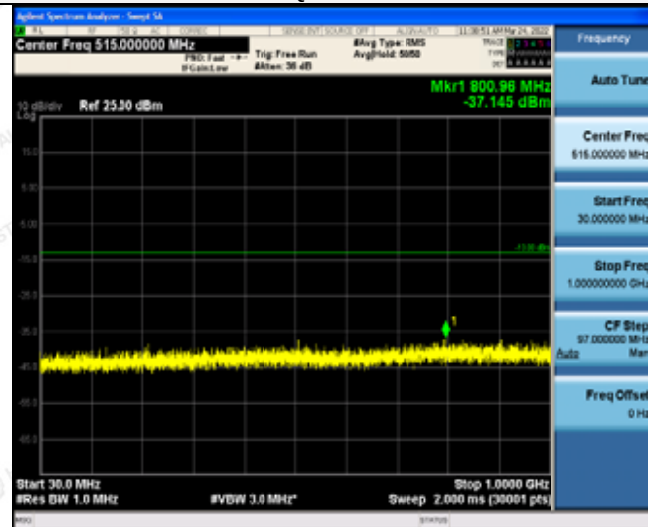
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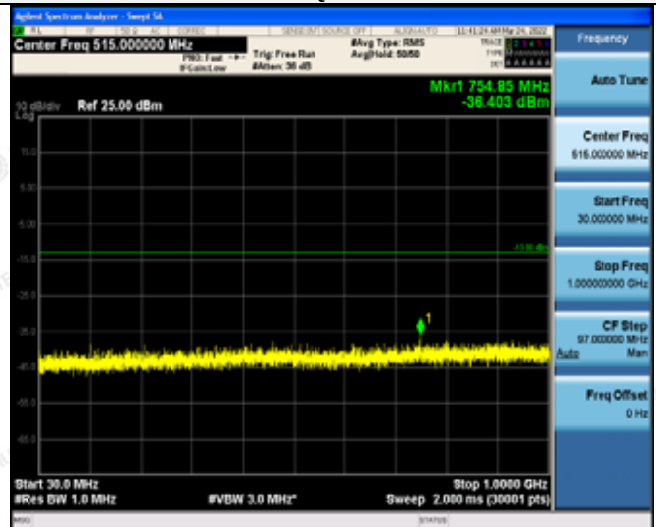
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

LTE FDD Band 66-10MHz Channel Bandwidth
High Channel

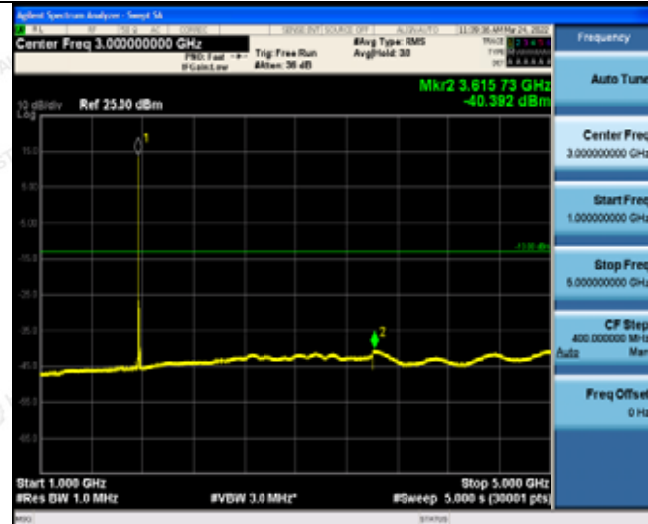
QPSK



16QAM



30MHz~1GHz



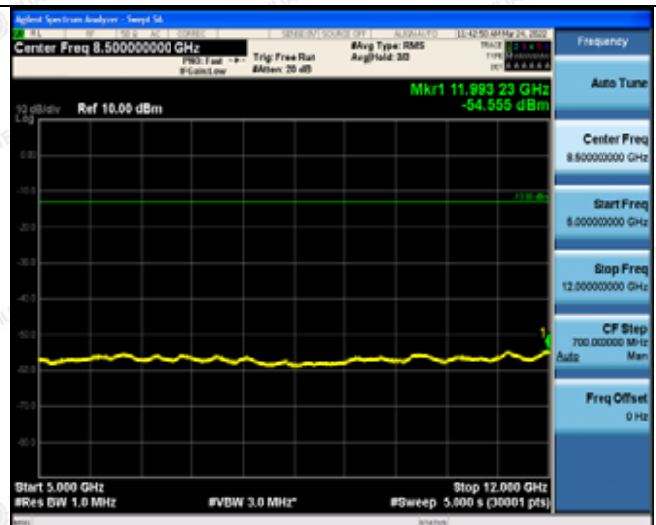
30MHz~1GHz



1GHz~5GHz

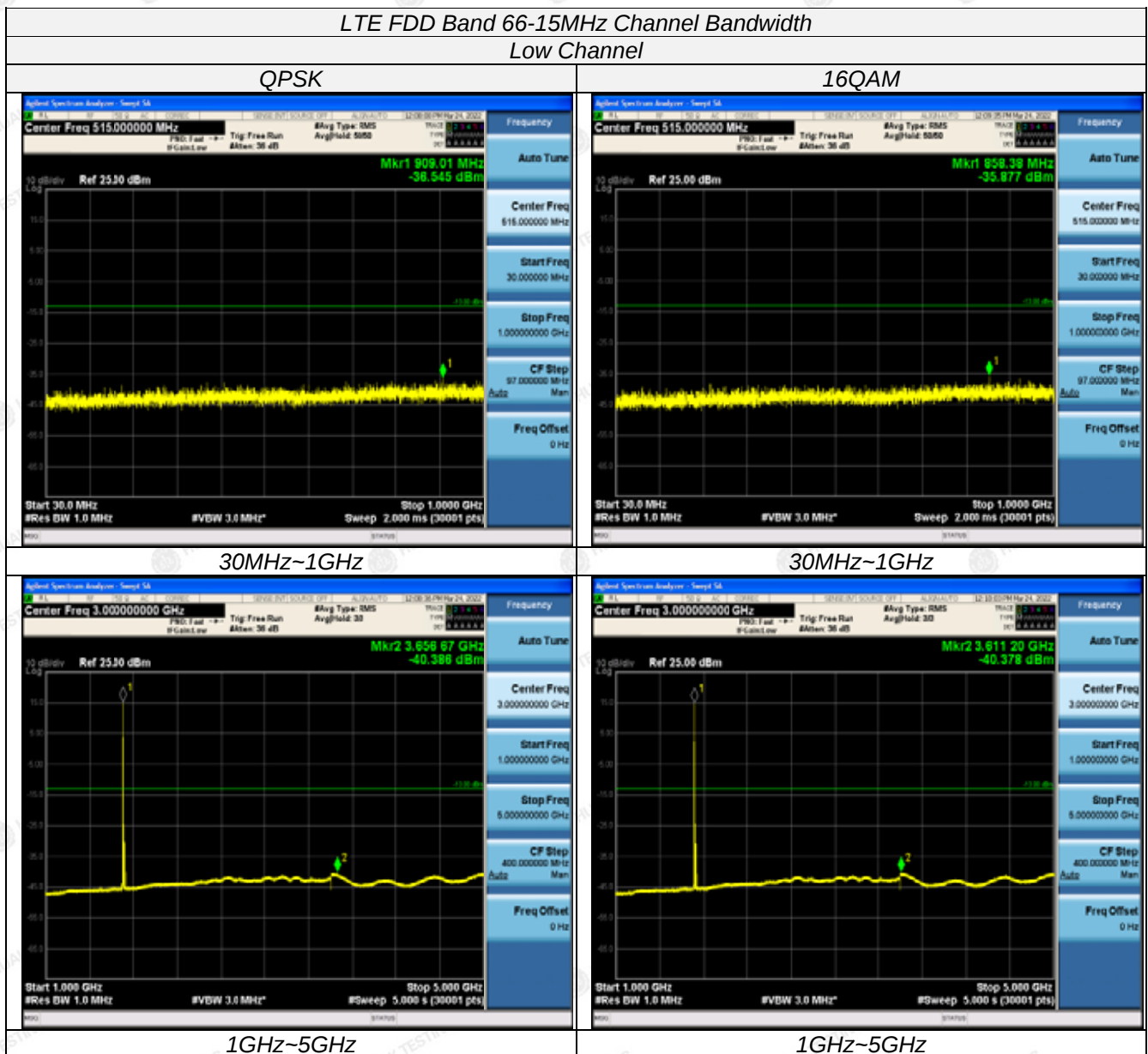
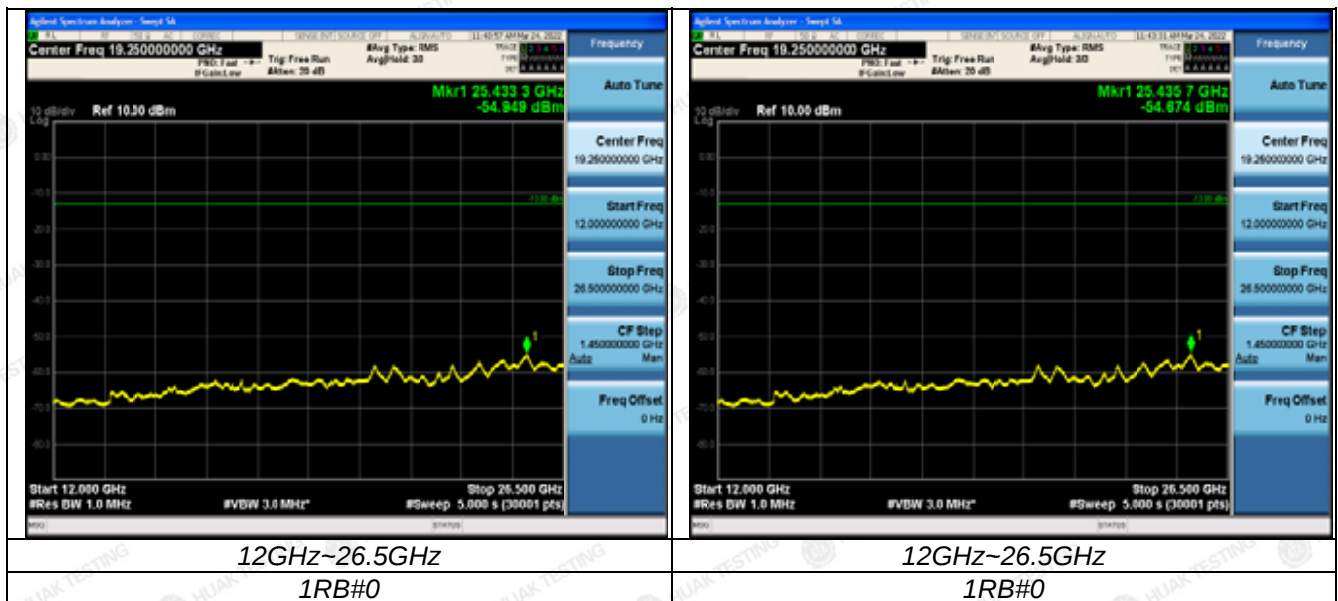


1GHz~5GHz



5GHz~12GHz

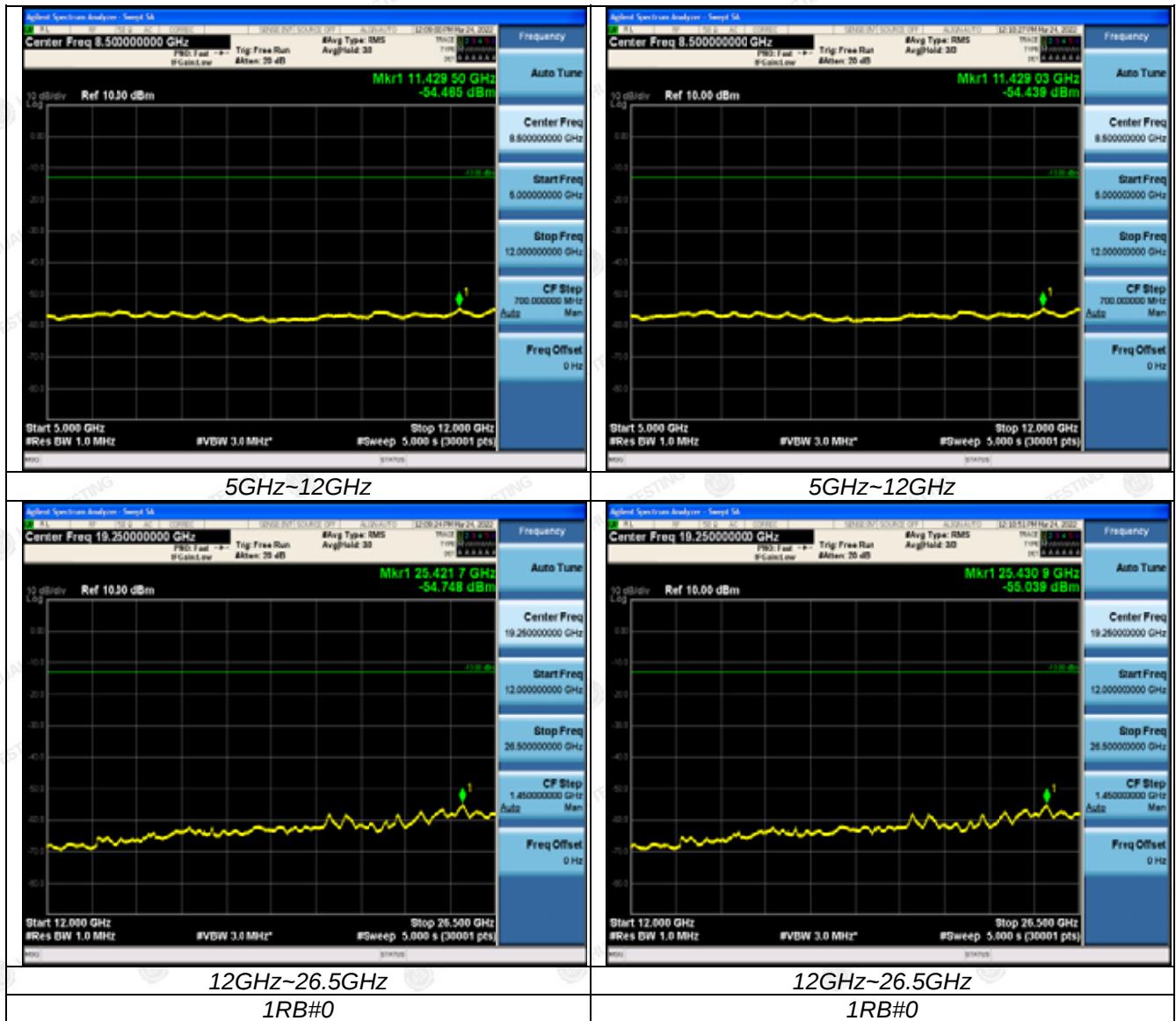
5GHz~12GHz



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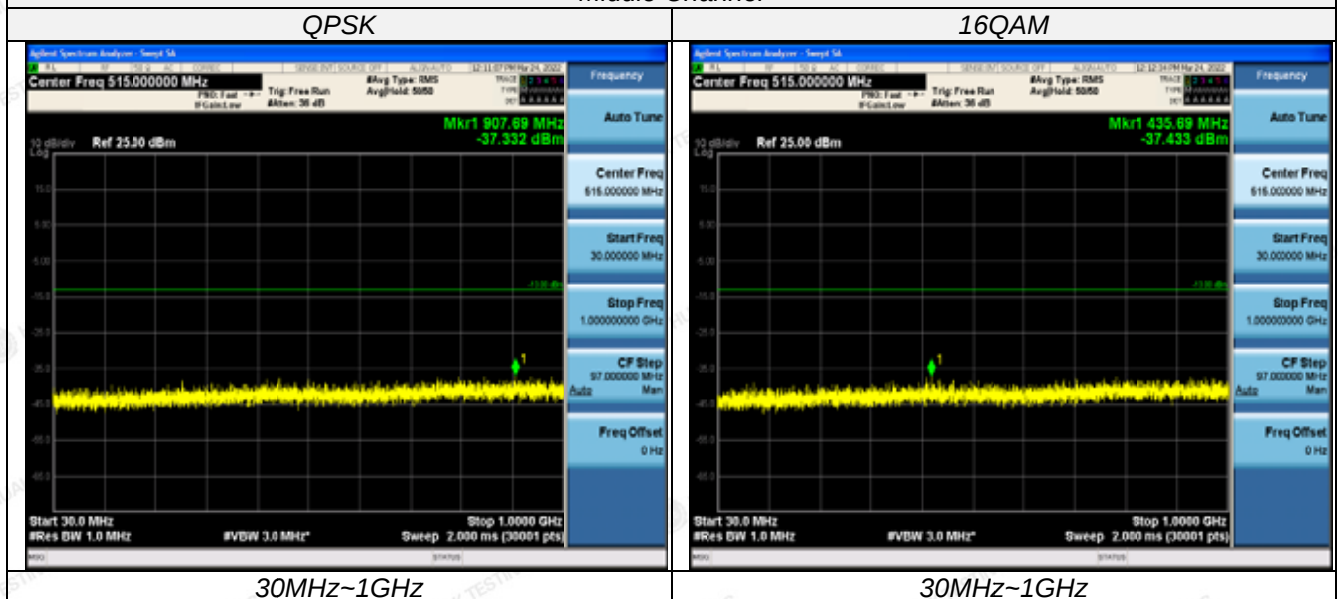
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LTE FDD Band 66-15MHz Channel Bandwidth

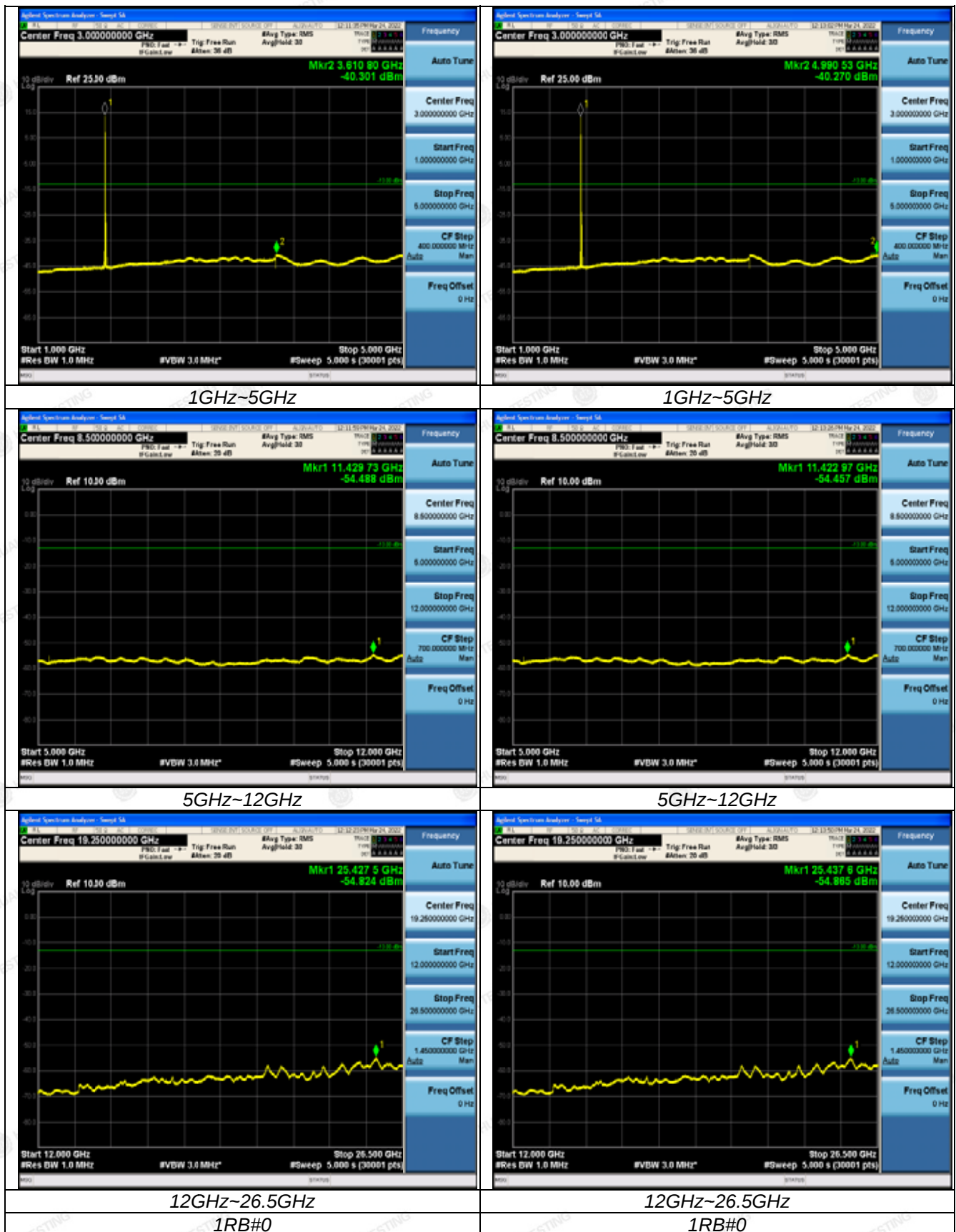
Middle Channel



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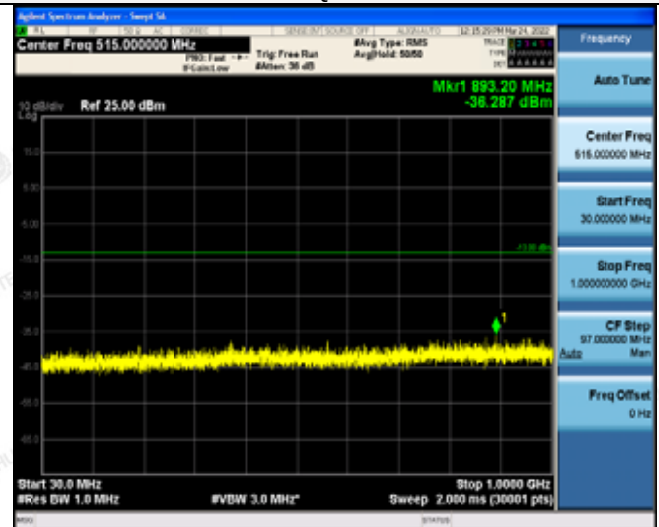
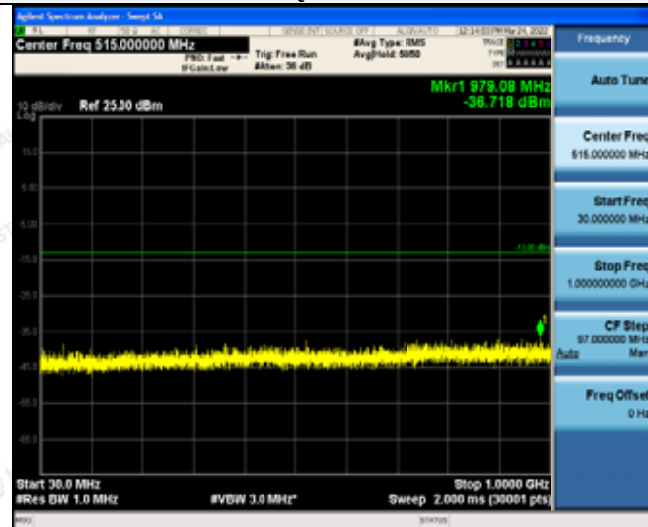
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LTE FDD Band 66-15MHz Channel Bandwidth
High Channel

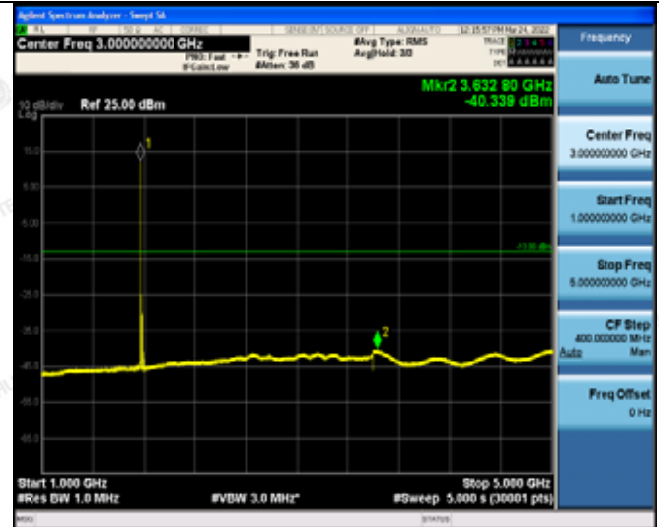
QPSK

16QAM



30MHz~1GHz

30MHz~1GHz



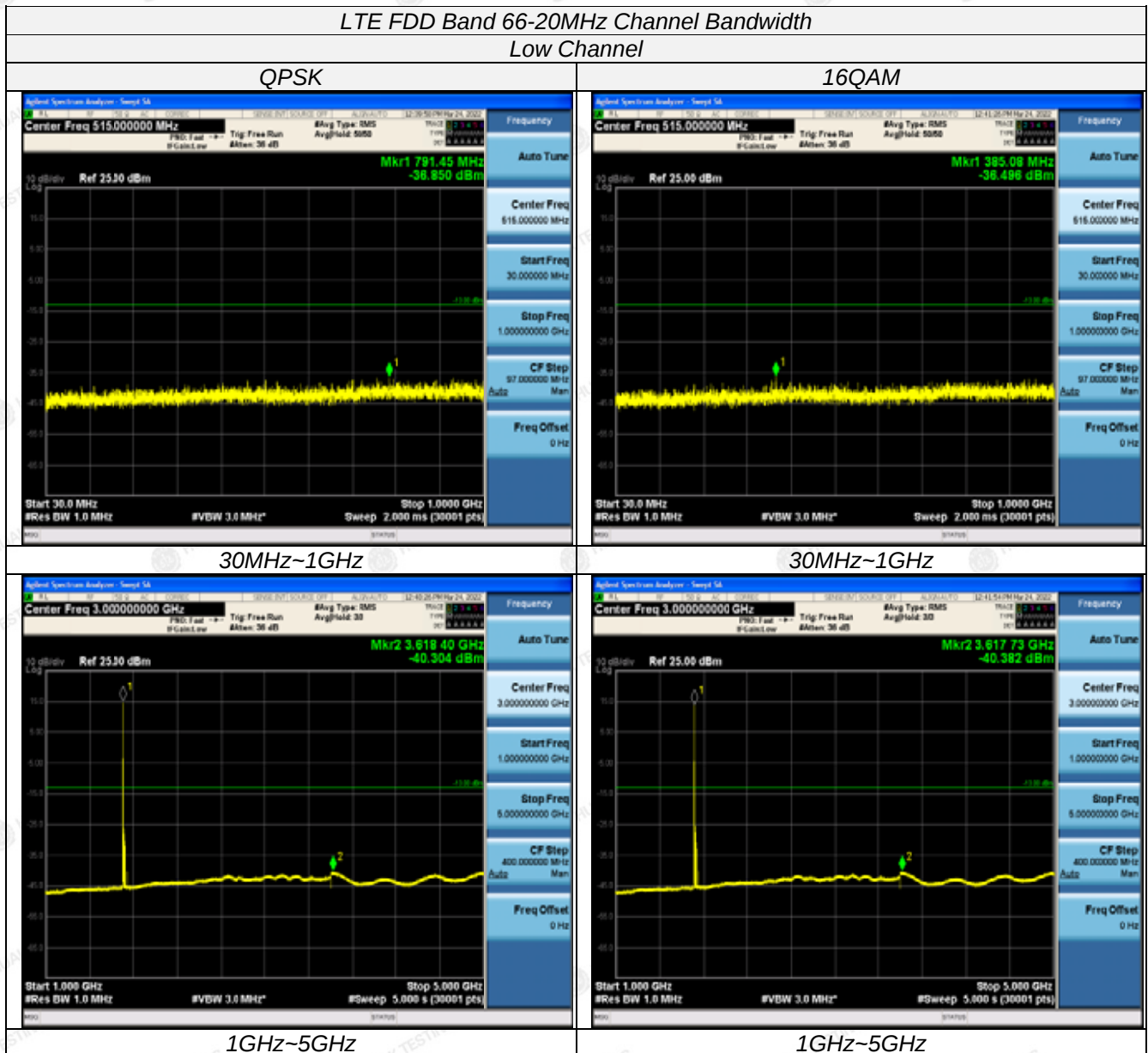
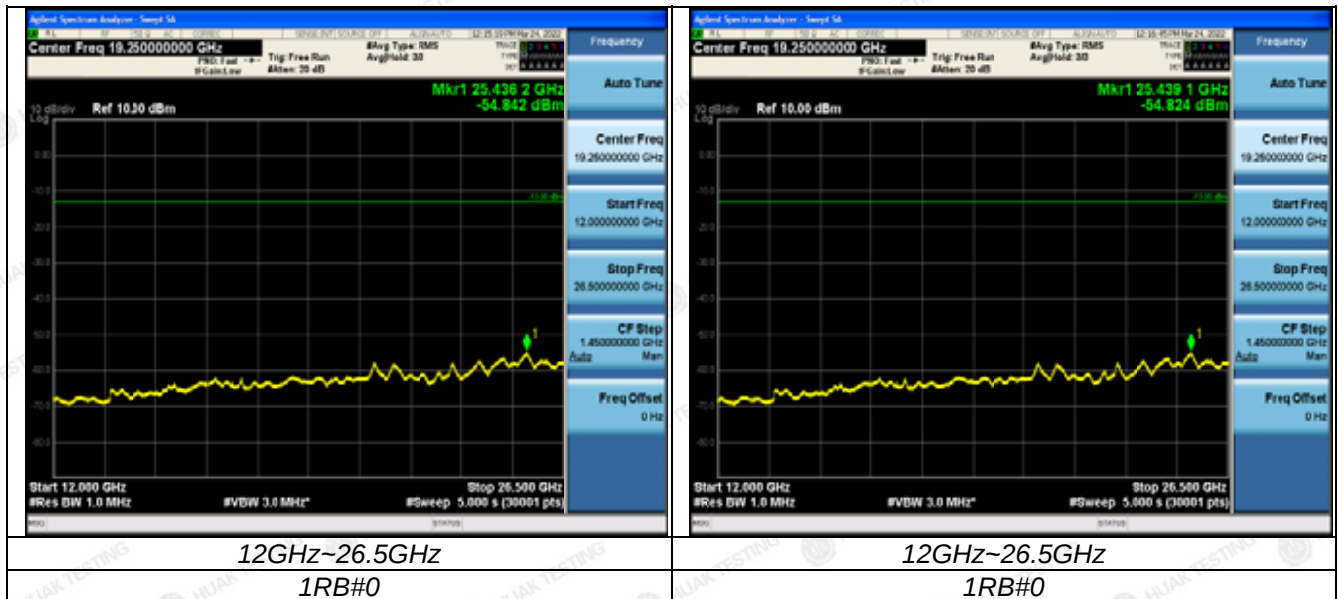
1GHz~5GHz

1GHz~5GHz



5GHz~12GHz

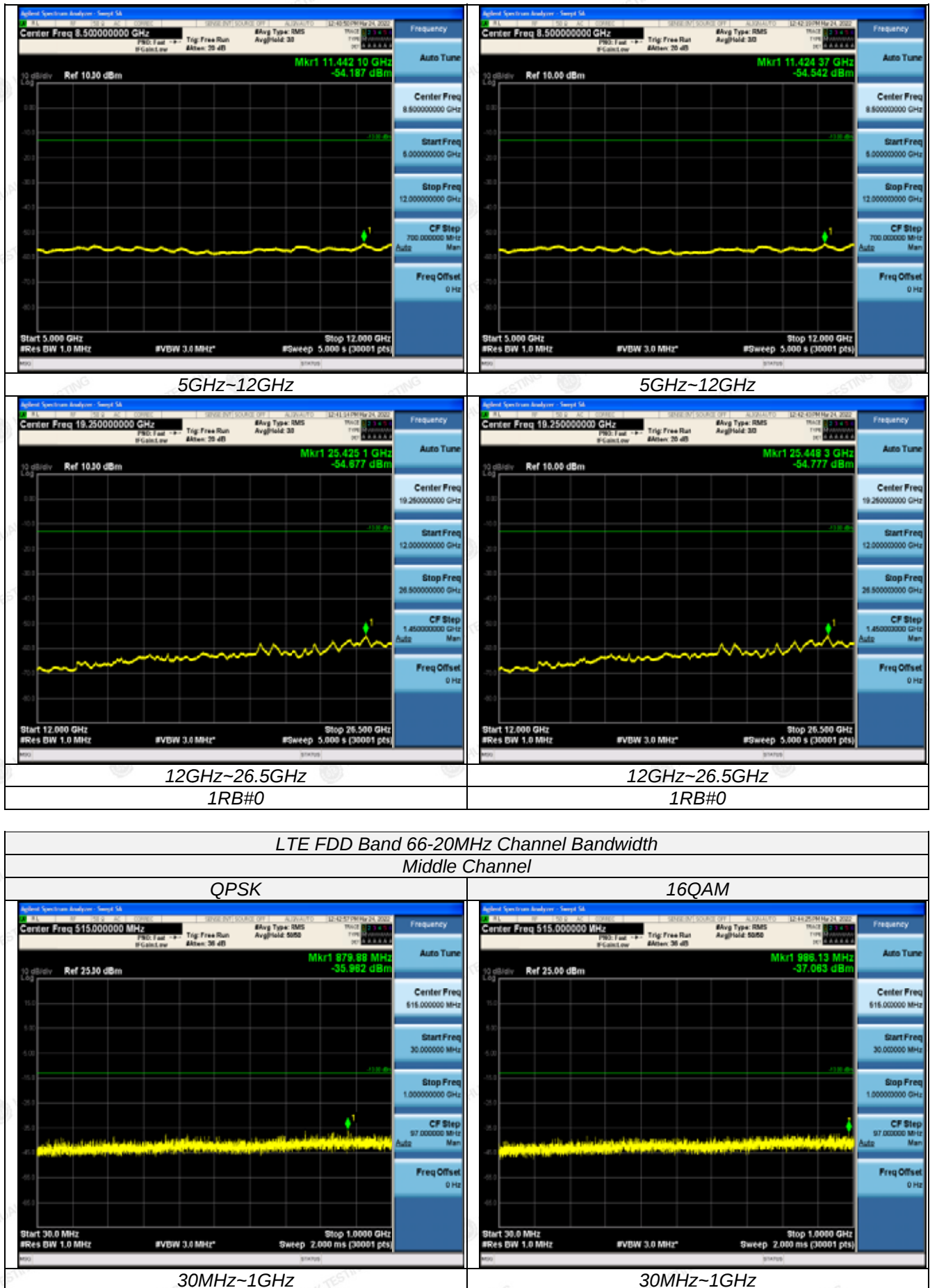
5GHz~12GHz



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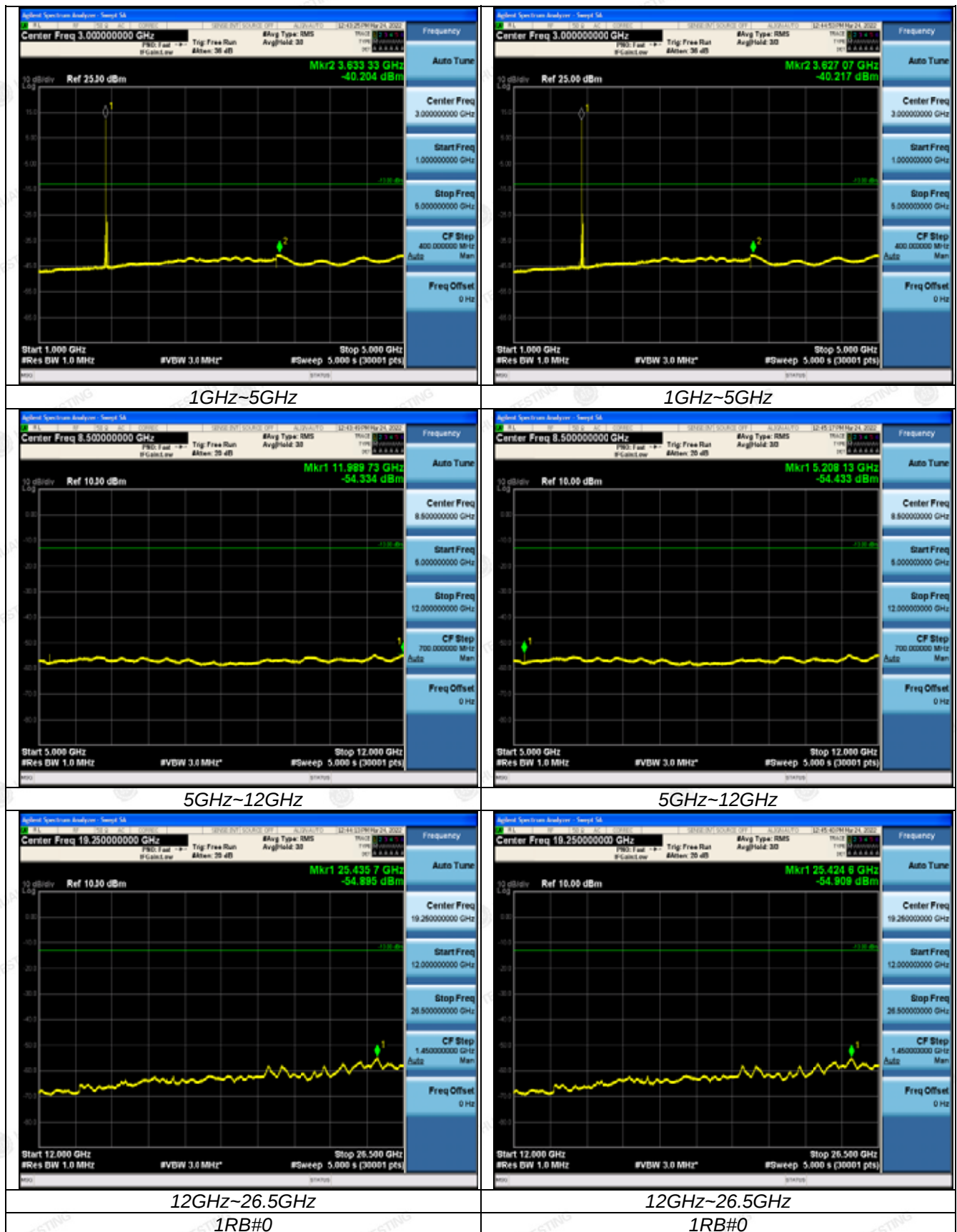
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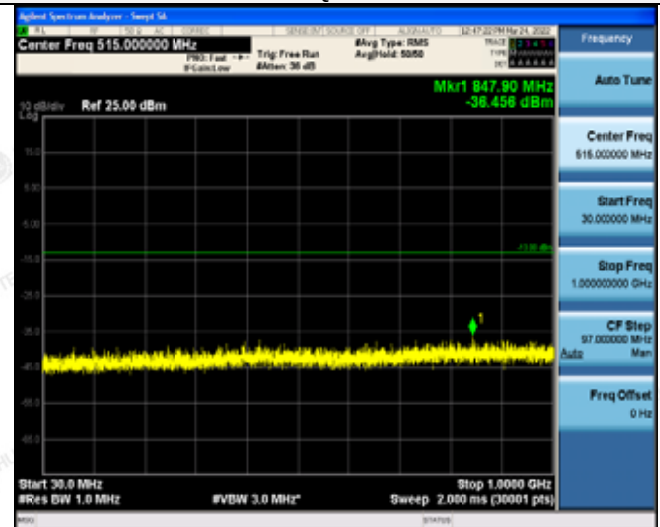
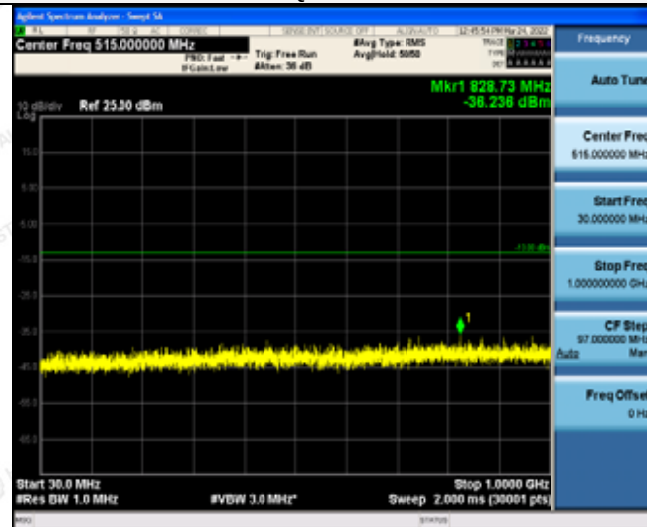
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LTE FDD Band 66-20MHz Channel Bandwidth
High Channel

QPSK

16QAM



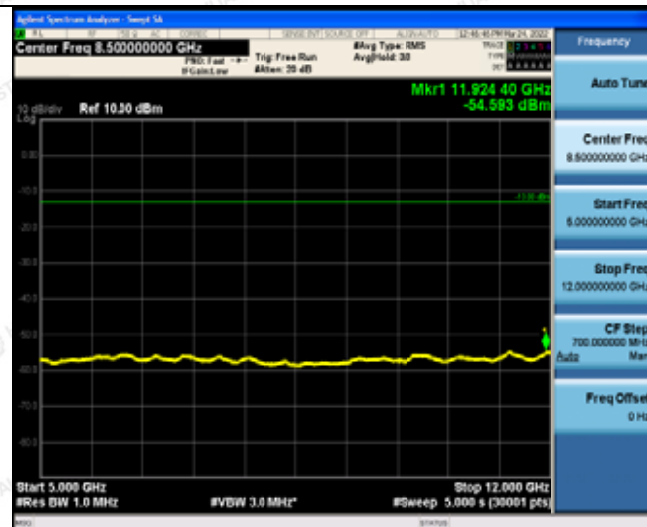
30MHz~1GHz

30MHz~1GHz



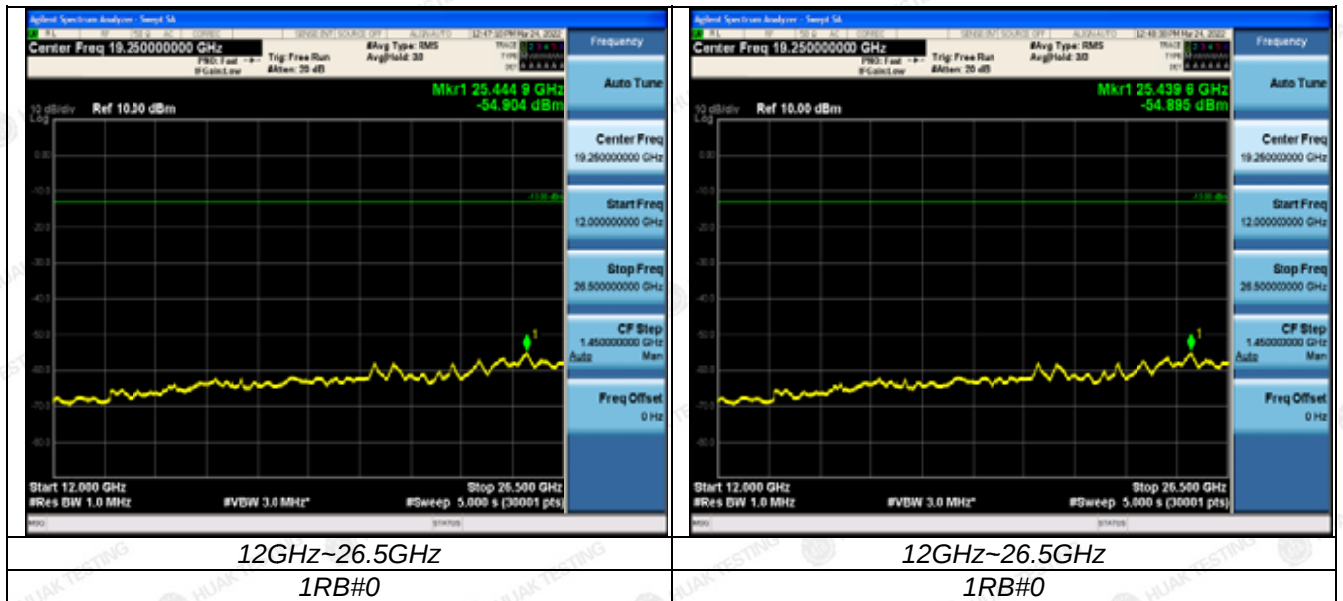
1GHz~5GHz

1GHz~5GHz



5GHz~12GHz

5GHz~12GHz



**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	-44.31	4.02	3	12.5	-35.83	-13.00	22.83	H
5132.1	-51.3	5.11	3	13.38	-43.03	-13.00	30.03	H
3421.4	-53.12	4.02	3	12.5	-44.64	-13.00	31.64	V
5132.1	-50.13	5.11	3	13.38	-41.86	-13.00	28.86	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	-44.54	4.02	3	12.45	-36.11	-13.00	23.11	H
5235	-48.73	5.11	3	13.38	-40.46	-13.00	27.46	H
3490	-48.69	4.02	3	12.45	-40.26	-13.00	27.26	V
5235	-48.35	5.11	3	13.38	-40.08	-13.00	27.08	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	-45.61	4.02	3	12.21	-37.42	-13.00	24.42	H
5337.9	-47.95	5.11	3	13.26	-39.8	-13.00	26.8	H
3558.6	-49.88	4.02	3	12.21	-41.69	-13.00	28.69	V
5337.9	-49.7	5.11	3	13.26	-41.55	-13.00	28.55	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	-45.84	4.02	3	12.5	-37.36	-13.00	24.36	H
5134.5	-51.23	5.11	3	13.38	-42.96	-13.00	29.96	H
3423.0	-49.98	4.02	3	12.5	-41.5	-13.00	28.5	V
5134.5	-48.17	5.11	3	13.38	-39.9	-13.00	26.9	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	-45.48	4.02	3	12.45	-37.05	-13.00	24.05	H
5235	-48.04	5.11	3	13.38	-39.77	-13.00	26.77	H
3490	-50.89	4.02	3	12.45	-42.46	-13.00	29.46	V
5235	-49.57	5.11	3	13.38	-41.3	-13.00	28.3	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	-42.57	4.02	3	12.21	-34.38	-13.00	21.38	H
5335.5	-46.5	5.11	3	13.26	-38.35	-13.00	25.35	H
3557	-49.49	4.02	3	12.21	-41.3	-13.00	28.3	V
5335.5	-49.41	5.11	3	13.26	-41.26	-13.00	28.26	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	-45.87	4.02	3	12.5	-37.39	-13.00	24.39	H
5137.5	-53.83	5.11	3	13.38	-45.56	-13.00	32.56	H
3425.0	-53.44	4.02	3	12.5	-44.96	-13.00	31.96	V
5137.5	-49.89	5.11	3	13.38	-41.62	-13.00	28.62	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	-44.99	4.02	3	12.45	-36.56	-13.00	23.56	H
5235	-48.25	5.11	3	13.38	-39.98	-13.00	26.98	H
3490	-50.32	4.02	3	12.45	-41.89	-13.00	28.89	V
5235	-48.7	5.11	3	13.38	-40.43	-13.00	27.43	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	-46.3	4.02	3	12.21	-38.11	-13.00	25.11	H
5332.5	-48.5	5.11	3	13.26	-40.35	-13.00	27.35	H
3555	-48.99	4.02	3	12.21	-40.8	-13.00	27.8	V
5332.5	-51.06	5.11	3	13.26	-42.91	-13.00	29.91	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	-45.59	4.02	3	12.5	-37.11	-13.00	24.11	H
5145.0	-52.23	5.11	3	13.38	-43.96	-13.00	30.96	H
3430.0	-50.42	4.02	3	12.5	-41.94	-13.00	28.94	V
5145.0	-47.88	5.11	3	13.38	-39.61	-13.00	26.61	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	-45.49	4.02	3	12.45	-37.06	-13.00	24.06	H
5235	-46.86	5.11	3	13.38	-38.59	-13.00	25.59	H
3490	-49.77	4.02	3	12.45	-41.34	-13.00	28.34	V
5235	-48.67	5.11	3	13.38	-40.4	-13.00	27.4	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	-45.39	4.02	3	12.21	-37.2	-13.00	24.2	H
5325	-45.88	5.11	3	13.26	-37.73	-13.00	24.73	H
3550	-49.89	4.02	3	12.21	-41.7	-13.00	28.7	V
5325	-50.55	5.11	3	13.26	-42.4	-13.00	29.4	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	4.02	3	12.5	-37.52	-13.00	24.52	H
5152.5	-49.44	5.11	3	13.38	-41.17	-13.00	28.17	H
3435.0	-49.46	4.02	3	12.5	-40.98	-13.00	27.98	V
5152.5	-50.14	5.11	3	13.38	-41.87	-13.00	28.87	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	-45.09	4.02	3	12.45	-36.66	-13.00	23.66	H
5235	-46.92	5.11	3	13.38	-38.65	-13.00	25.65	H
3490	-52.84	4.02	3	12.45	-44.41	-13.00	31.41	V
5235	-47.5	5.11	3	13.38	-39.23	-13.00	26.23	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	-42.4	4.02	3	12.21	-34.21	-13.00	21.21	H
5317.5	-46.68	5.11	3	13.26	-38.53	-13.00	25.53	H
3545	-49.3	4.02	3	12.21	-41.11	-13.00	28.11	V
5317.5	-48.74	5.11	3	13.26	-40.59	-13.00	27.59	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	-46.2	4.02	3	12.5	-37.72	-13.00	24.72	H
5160.0	-53.68	5.11	3	13.38	-45.41	-13.00	32.41	H
3440.0	-53.73	4.02	3	12.5	-45.25	-13.00	32.25	V
5160.0	-50.24	5.11	3	13.38	-41.97	-13.00	28.97	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	-45.5	4.02	3	12.45	-37.07	-13.00	24.07	H
5235	-46.61	5.11	3	13.38	-38.34	-13.00	25.34	H
3490	-52	4.02	3	12.45	-43.57	-13.00	30.57	V
5235	-49.88	5.11	3	13.38	-41.61	-13.00	28.61	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	-42.86	4.02	3	12.21	-34.67	-13.00	21.67	H
5310	-45.99	5.11	3	13.26	-37.84	-13.00	24.84	H
3540	-48.57	4.02	3	12.21	-40.38	-13.00	27.38	V
5310	-48.24	5.11	3	13.26	-40.09	-13.00	27.09	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	-47.12	4.02	3	12.5	-38.64	-13.00	25.64	H
5132.1	-53.2	5.11	3	13.38	-44.93	-13.00	31.93	H
3421.4	-51.27	4.02	3	12.5	-42.79	-13.00	29.79	V
5132.1	-50.96	5.11	3	13.38	-42.69	-13.00	29.69	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	-44.14	4.02	3	12.45	-35.71	-13.00	22.71	H
5235	-47.46	5.11	3	13.38	-39.19	-13.00	26.19	H
3490	-50.34	4.02	3	12.45	-41.91	-13.00	28.91	V
5235	-48.71	5.11	3	13.38	-40.44	-13.00	27.44	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	-43.43	4.02	3	12.21	-35.24	-13.00	22.24	H
5337.9	-46.36	5.11	3	13.26	-38.21	-13.00	25.21	H
3558.6	-49.02	4.02	3	12.21	-40.83	-13.00	27.83	V
5337.9	-48.31	5.11	3	13.26	-40.16	-13.00	27.16	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	-46.66	4.02	3	12.5	-38.18	-13.00	25.18	H
5134.5	-52.69	5.11	3	13.38	-44.42	-13.00	31.42	H
3423.0	-51.63	4.02	3	12.5	-43.15	-13.00	30.15	V
5134.5	-48.34	5.11	3	13.38	-40.07	-13.00	27.07	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	-44.19	4.02	3	12.45	-35.76	-13.00	22.76	H
5235	-46.59	5.11	3	13.38	-38.32	-13.00	25.32	H
3490	-49.39	4.02	3	12.45	-40.96	-13.00	27.96	V
5235	-48.1	5.11	3	13.38	-39.83	-13.00	26.83	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	-43.46	4.02	3	12.21	-35.27	-13.00	22.27	H
5335.5	-46.65	5.11	3	13.26	-38.5	-13.00	25.5	H
3557	-48.09	4.02	3	12.21	-39.9	-13.00	26.9	V
5335.5	-49.38	5.11	3	13.26	-41.23	-13.00	28.23	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	-47.31	4.02	3	12.5	-38.83	-13.00	25.83	H
5137.5	-52.51	5.11	3	13.38	-44.24	-13.00	31.24	H
3425.0	-49.38	4.02	3	12.5	-40.9	-13.00	27.9	V
5137.5	-50.17	5.11	3	13.38	-41.9	-13.00	28.9	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	-43.96	4.02	3	12.45	-35.53	-13.00	22.53	H
5235	-48.13	5.11	3	13.38	-39.86	-13.00	26.86	H
3490	-50.42	4.02	3	12.45	-41.99	-13.00	28.99	V
5235	-48.06	5.11	3	13.38	-39.79	-13.00	26.79	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	-42.31	4.02	3	12.21	-34.12	-13.00	21.12	H
5332.5	-46.91	5.11	3	13.26	-38.76	-13.00	25.76	H
3555	-48.49	4.02	3	12.21	-40.3	-13.00	27.3	V
5332.5	-48.88	5.11	3	13.26	-40.73	-13.00	27.73	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	-46.99	4.02	3	12.5	-38.51	-13.00	25.51	H
5145.0	-52.51	5.11	3	13.38	-44.24	-13.00	31.24	H
3430.0	-49.72	4.02	3	12.5	-41.24	-13.00	28.24	V
5145.0	-49.37	5.11	3	13.38	-41.1	-13.00	28.1	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	-43.32	4.02	3	12.45	-34.89	-13.00	21.89	H
5235	-47.6	5.11	3	13.38	-39.33	-13.00	26.33	H
3490	-50.14	4.02	3	12.45	-41.71	-13.00	28.71	V
5235	-47.72	5.11	3	13.38	-39.45	-13.00	26.45	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	-43.78	4.02	3	12.21	-35.59	-13.00	22.59	H
5325	-46.54	5.11	3	13.26	-38.39	-13.00	25.39	H
3550	-48.41	4.02	3	12.21	-40.22	-13.00	27.22	V
5325	-50.13	5.11	3	13.26	-41.98	-13.00	28.98	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	-46.72	4.02	3	12.5	-38.24	-13.00	25.24	H
5152.5	-51.76	5.11	3	13.38	-43.49	-13.00	30.49	H
3435.0	-51.73	4.02	3	12.5	-43.25	-13.00	30.25	V
5152.5	-49.73	5.11	3	13.38	-41.46	-13.00	28.46	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	-43.43	4.02	3	12.45	-35	-13.00	22	H
5235	-46.87	5.11	3	13.38	-38.6	-13.00	25.6	H
3490	-49.74	4.02	3	12.45	-41.31	-13.00	28.31	V
5235	-47.41	5.11	3	13.38	-39.14	-13.00	26.14	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	-42.55	4.02	3	12.21	-34.36	-13.00	21.36	H
5317.5	-46.8	5.11	3	13.26	-38.65	-13.00	25.65	H
3545	-50.2	4.02	3	12.21	-42.01	-13.00	29.01	V
5317.5	-49.88	5.11	3	13.26	-41.73	-13.00	28.73	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	-44.28	4.02	3	12.5	-35.8	-13.00	22.8	H
5160.0	-49.19	5.11	3	13.38	-40.92	-13.00	27.92	H
3440.0	-51.12	4.02	3	12.5	-42.64	-13.00	29.64	V
5160.0	-48.15	5.11	3	13.38	-39.88	-13.00	26.88	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	-43.57	4.02	3	12.45	-35.14	-13.00	22.14	H
5235	-47.02	5.11	3	13.38	-38.75	-13.00	25.75	H
3490	-49.13	4.02	3	12.45	-40.7	-13.00	27.7	V
5235	-48.67	5.11	3	13.38	-40.4	-13.00	27.4	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	-43.23	4.02	3	12.21	-35.04	-13.00	22.04	H
5310	-46.12	5.11	3	13.26	-37.97	-13.00	24.97	H
3540	-47.67	4.02	3	12.21	-39.48	-13.00	26.48	V
5310	-47.6	5.11	3	13.26	-39.45	-13.00	26.45	V

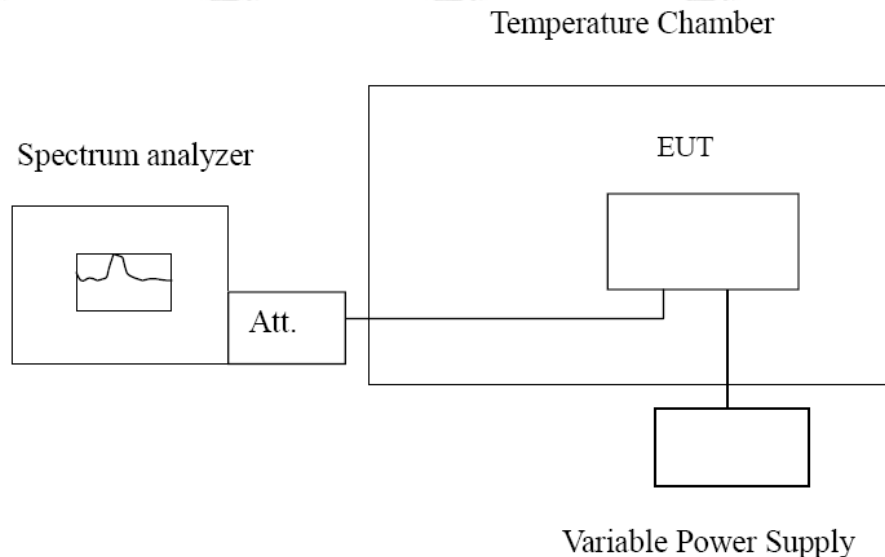


3.6 Frequency Stability under Temperature & Voltage Variations

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 0.1V 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)

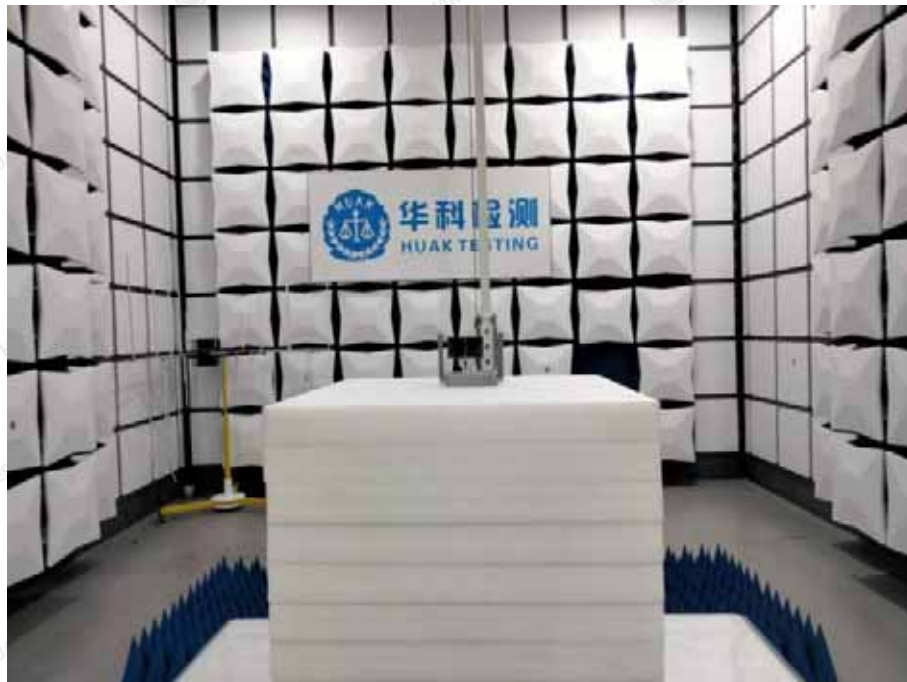
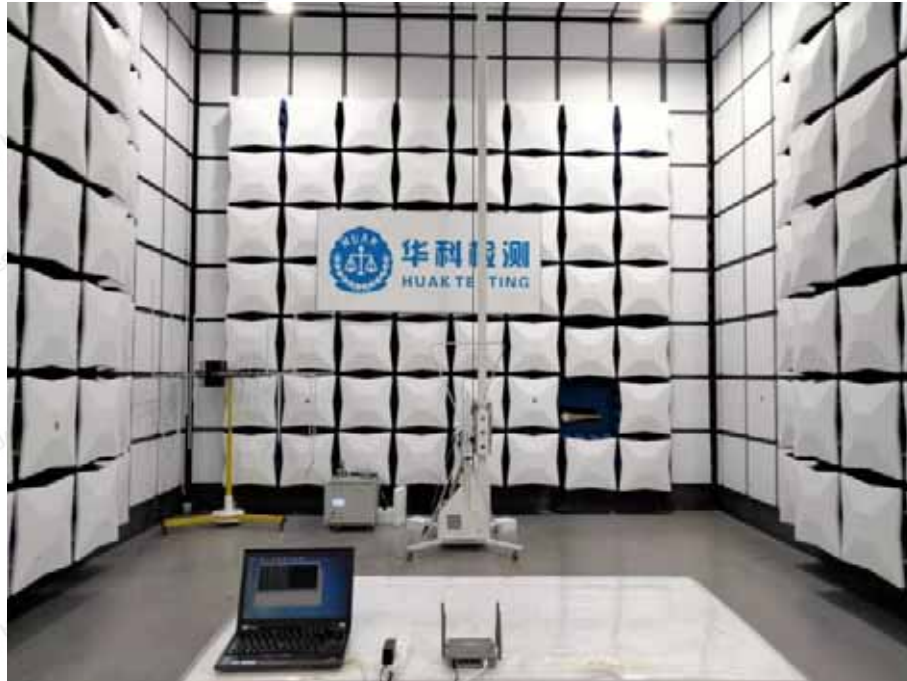
LTE FDD Band 66				
DC Power	Temperature ()	Frequency error(Hz)	Frequency error(ppm)	Verdict
10.2	20	-3.12	-0.003830	PASS
12.0	20	3.00	0.003682	PASS
13.8	20	2.88	0.003535	PASS
12.0	-30	-2.90	-0.003560	PASS
12.0	-20	-2.76	-0.003388	PASS
12.0	-10	-4.71	-0.005751	PASS
12.0	0	-4.38	-0.005348	PASS
12.0	10	-3.10	-0.003785	PASS
12.0	20	-3.32	-0.004054	PASS
12.0	30	-3.78	-0.004615	PASS
12.0	40	-2.63	-0.003194	PASS
12.0	50	-2.86	-0.003474	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	-3.35	-0.004112	PASS
12.0	20	-2.79	-0.003425	PASS
13.8	20	-3.05	-0.003744	PASS
12.0	-30	-4.62	-0.005671	PASS
12.0	-20	-4.29	-0.005266	PASS
12.0	-10	-5.16	-0.006300	PASS
12.0	0	-4.82	-0.005885	PASS
12.0	10	-6.49	-0.007924	PASS
12.0	20	-5.05	-0.006166	PASS
12.0	30	-4.92	-0.006007	PASS
12.0	40	-4.38	-0.005320	PASS
12.0	50	-3.30	-0.004008	PASS



4 TEST SETUP PHOTOS OF THE EUT



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

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5 PHOTOS OF THE EUT

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

.....End of Report.....