

FCC Test Report

ANNEX 6 LTE BAND 7

FCC ID: 2A6DV-HPAD

Applicant:	CHINA HAINERGY NEW ENERGY CORP., LTD
Address:	Unit 1908, 19/F., Harbour Centre, 25 Harbour Road, Wan Chai, Hong Kong, China.
Manufacturer:	CHINA HAINERGY NEW ENERGY CORP., LTD
Address:	Unit 1908, 19/F., Harbour Centre, 25 Harbour Road, Wan Chai, Hong Kong, China.
EUT:	Tablet
Trade Mark:	Haitech
Model Number:	HPAD-M2
Date of Receipt:	Apr. 13, 2022
Test Date:	Apr. 13, 2022 – Apr. 22, 2022
Date of Report:	Apr. 22, 2022
Prepared By:	Shenzhen DL Testing Technology Co., Ltd.
Address:	101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China
Applicable Standards:	FCC CFR Title 47 Part22 Subpart H FCC CFR Title 47 Part24 Subpart E FCC CFR Title 47 Part27 ANSI/TIA-603-E-2016 FCC KDB 971168 D01 Power Meas. License Digital Systems v03v01 ANSI C63.26:2015
Test Result:	Pass

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1. EMISSION TEST RESULTS

1.1. -26dB and 99% Occupied Bandwidth

1.1.1. Test Result

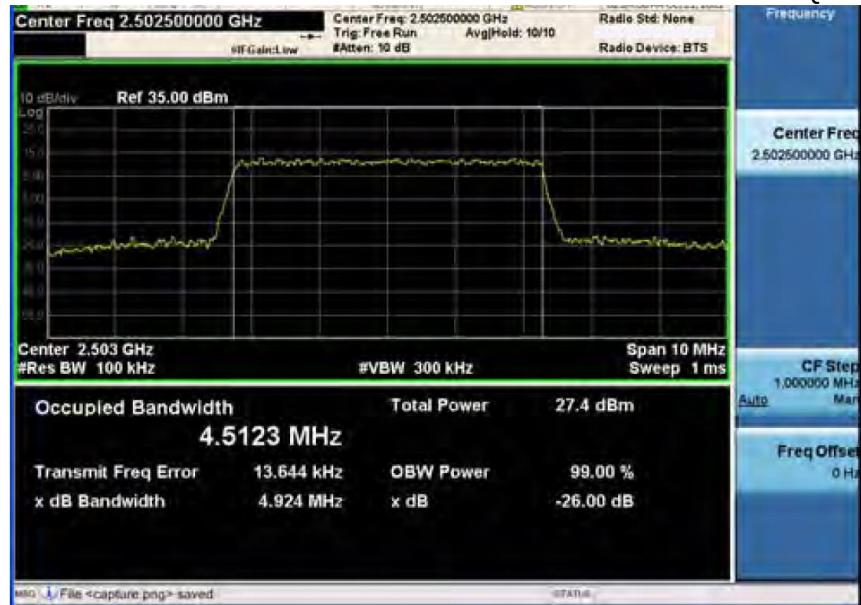
EUT Mode Bandwidth	Modulation	Frequency (MHz)	99% Occupy bandwidth (MHz)	-26dB bandwidth (MHz)
LTE Band 7 5MHz	QPSK	2502.5	4.51	4.92
		2535.0	4.50	4.93
		2567.5	4.50	4.94
LTE Band 7 5MHz	16-QAM	2502.5	4.50	4.91
		2535.0	4.50	4.93
		2567.5	4.50	4.92
LTE Band 7 10 MHz	QPSK	2505.5	9.01	9.76
		2535.0	9.00	9.76
		2565.5	9.00	9.73
LTE Band 7 10 MHz	16-QAM	2505.5	8.96	9.67
		2535.0	8.97	9.69
		2565.5	8.97	9.72
LTE Band 7 15 MHz	QPSK	2507.5	13.47	14.54
		2535.0	13.49	14.55
		2562.5	13.48	14.51
LTE Band 7 15 MHz	16-QAM	2507.5	13.45	14.56
		2535.0	13.47	14.59
		2562.5	13.46	14.57
LTE Band 7 20 MHz	QPSK	2510.0	17.89	19.42
		2535.0	17.95	19.41
		2560.0	17.92	19.33
LTE Band 7 20 MHz	16-QAM	2510.0	17.93	19.32
		2535.0	17.95	19.33
		2560.0	17.96	19.30

Note: Measurement Uncertainty: $\pm 20\text{Hz}$.

Test plot as follows:

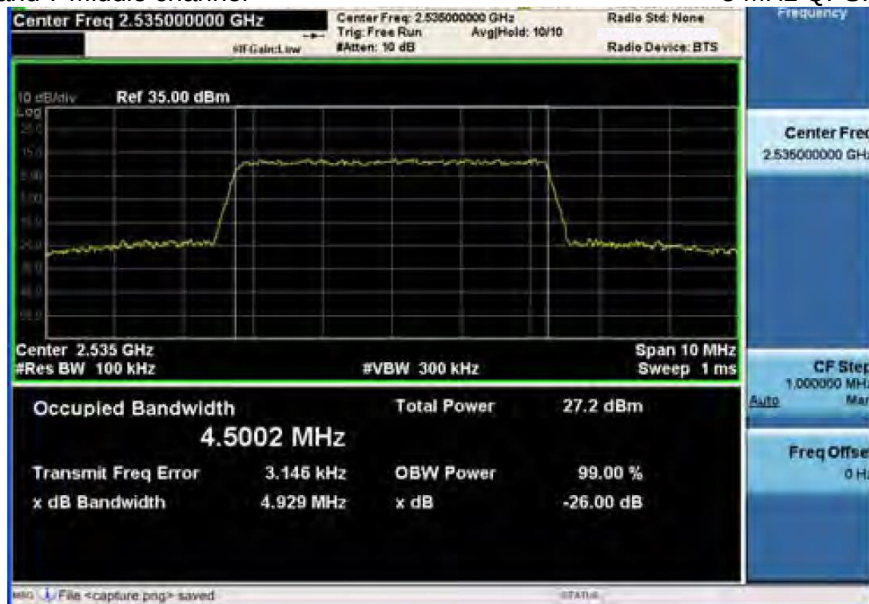
LTE Band 7 Lowest channel

5 MHz QPSK



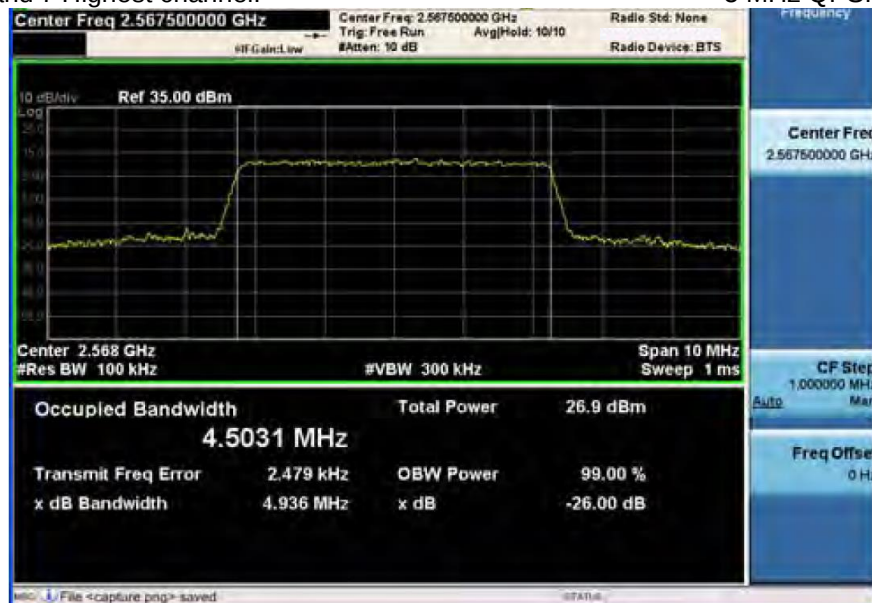
LTE Band 7 Middle channel

5 MHz QPSK



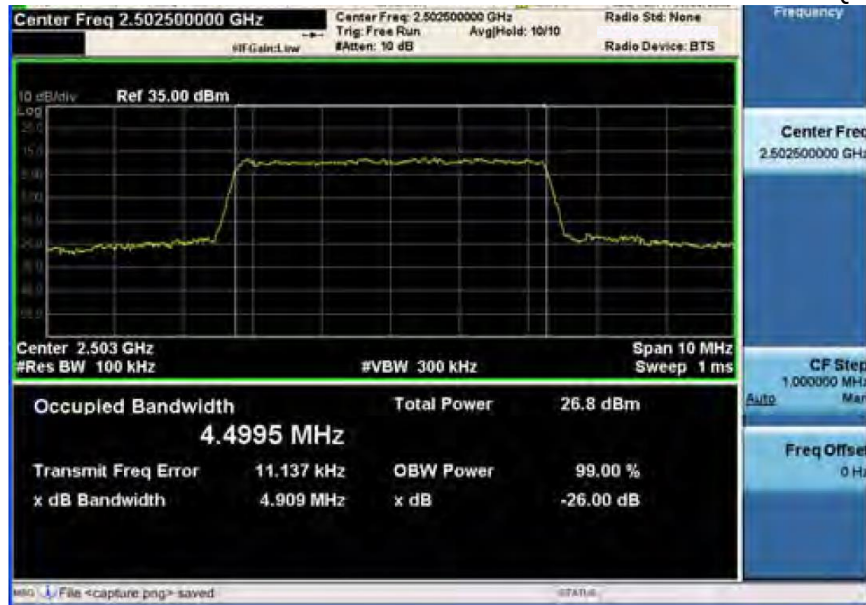
LTE Band 7 Highest channel:

5 MHz QPSK



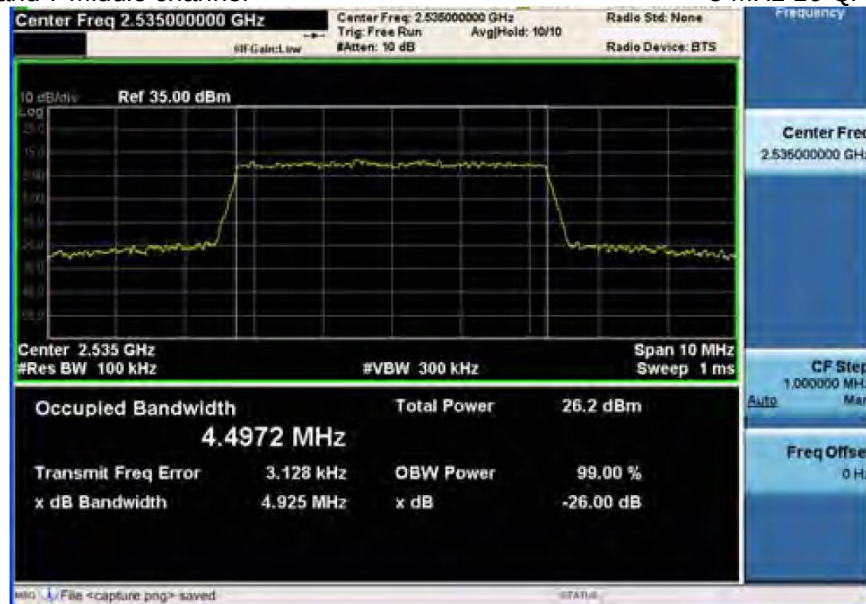
LTE Band 7 Lowest channel

5 MHz 16-QAM



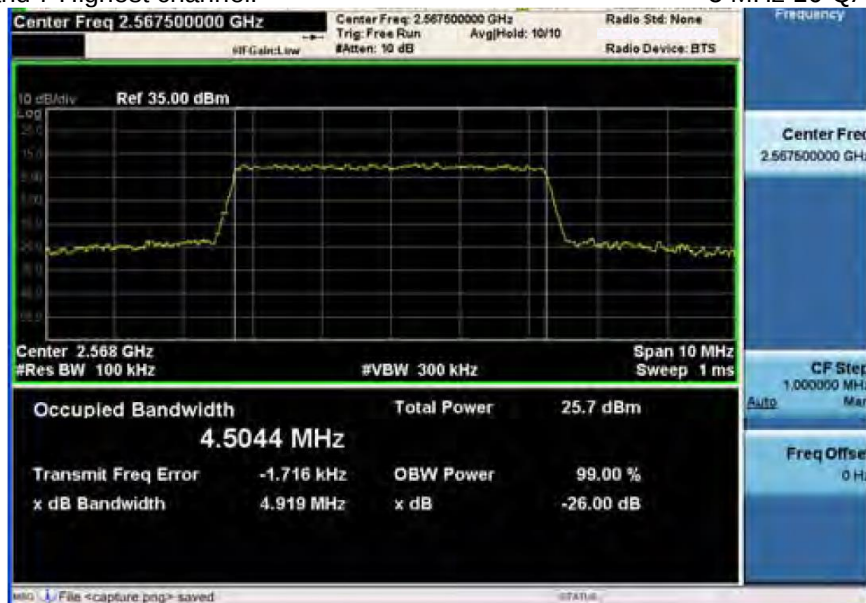
LTE Band 7 Middle channel

5 MHz 16-QAM



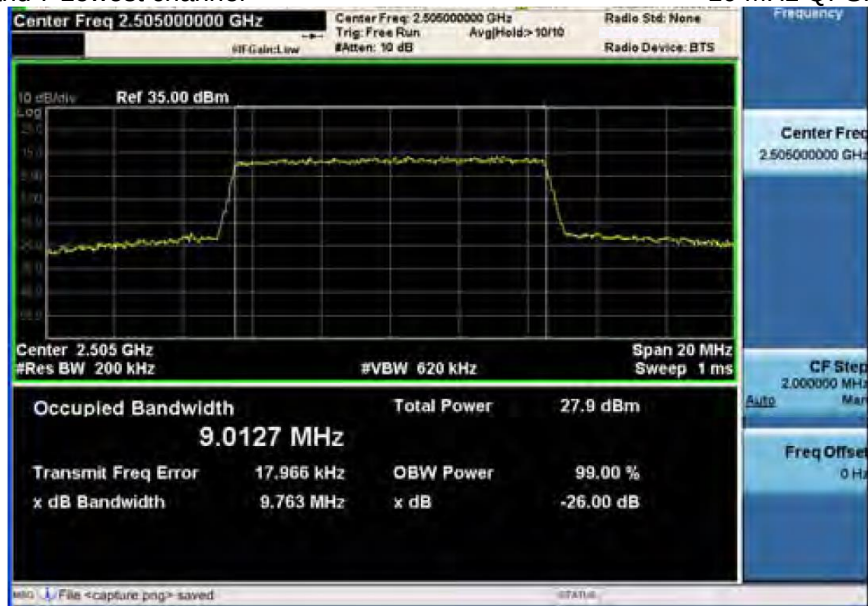
LTE Band 7 Highest channel:

5 MHz 16-QAM



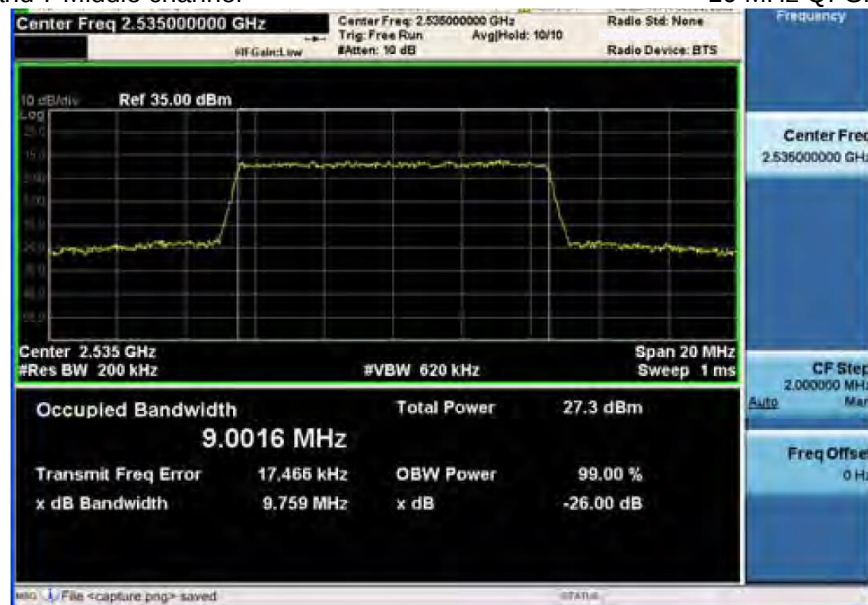
LTE Band 7 Lowest channel

10 MHz QPSK



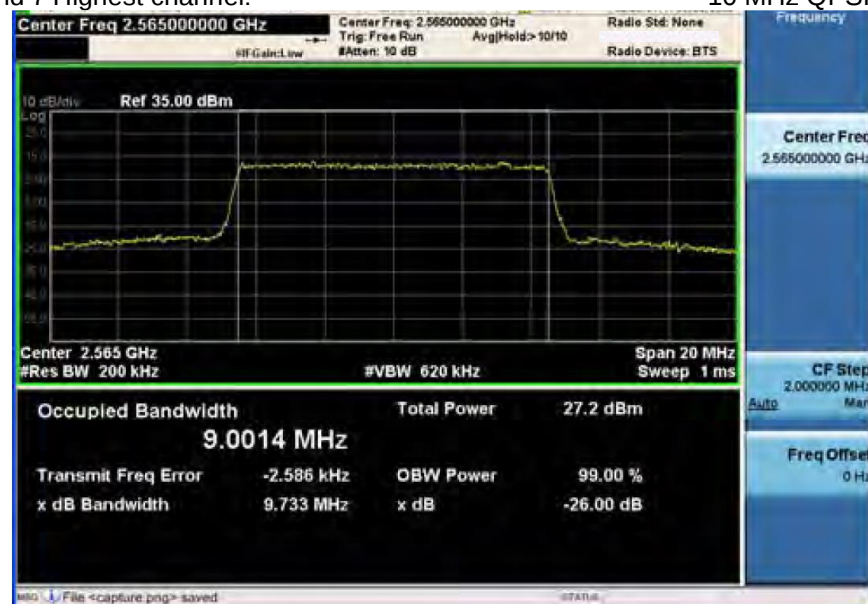
LTE Band 7 Middle channel

10 MHz QPSK



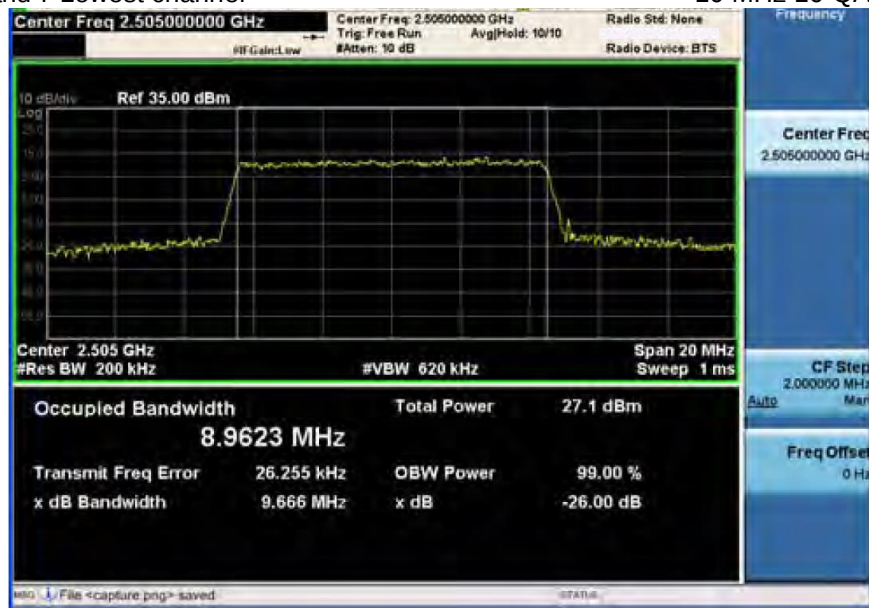
LTE Band 7 Highest channel:

10 MHz QPSK



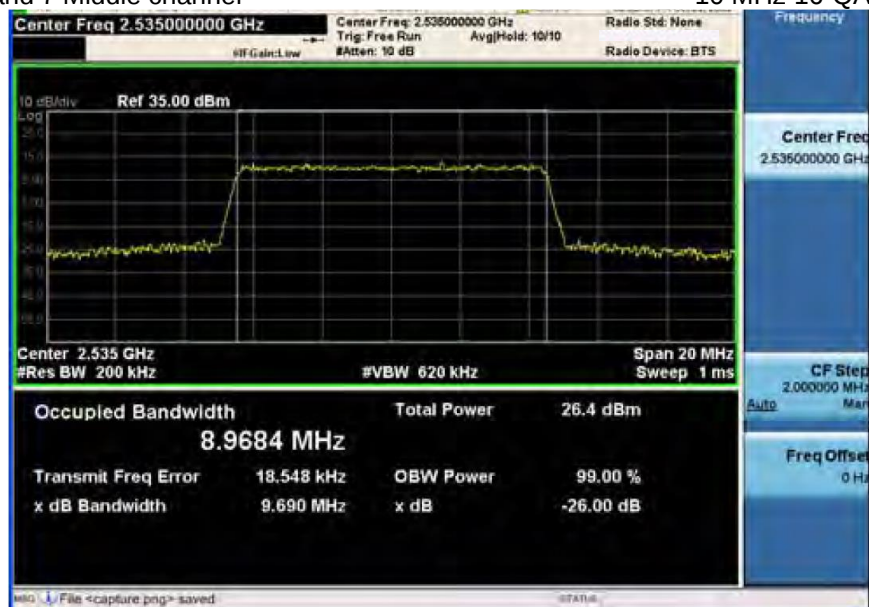
LTE Band 7 Lowest channel

10 MHz 16-QAM



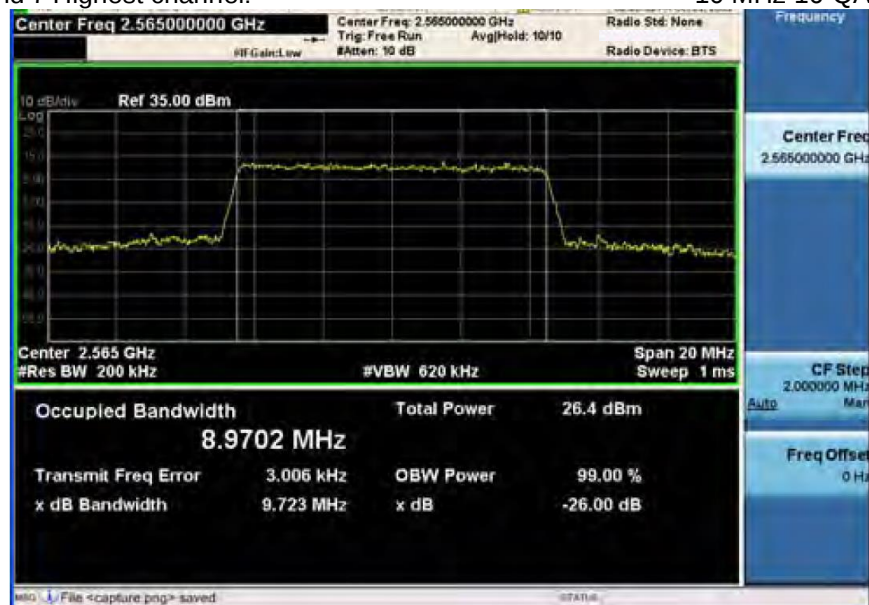
LTE Band 7 Middle channel

10 MHz 16-QAM



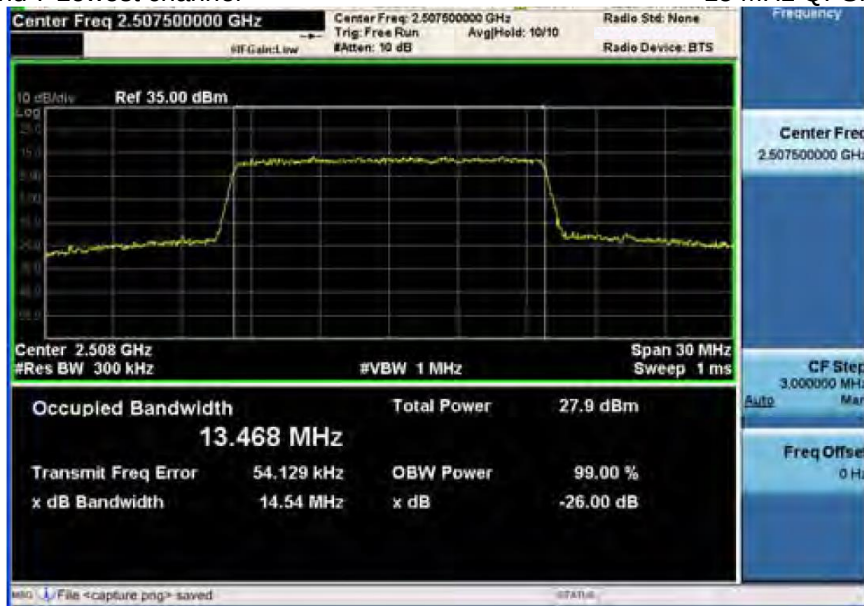
LTE Band 7 Highest channel:

10 MHz 16-QAM



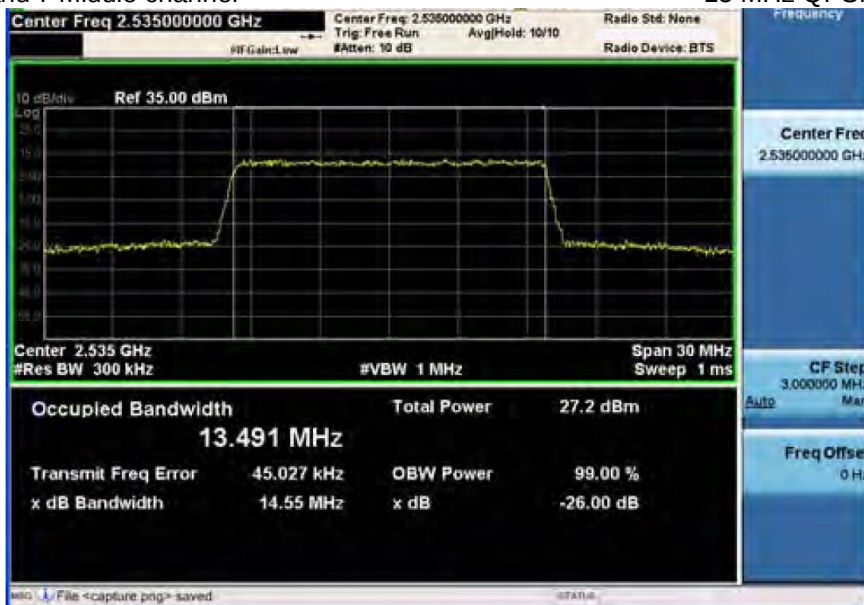
LTE Band 7 Lowest channel

15 MHz QPSK



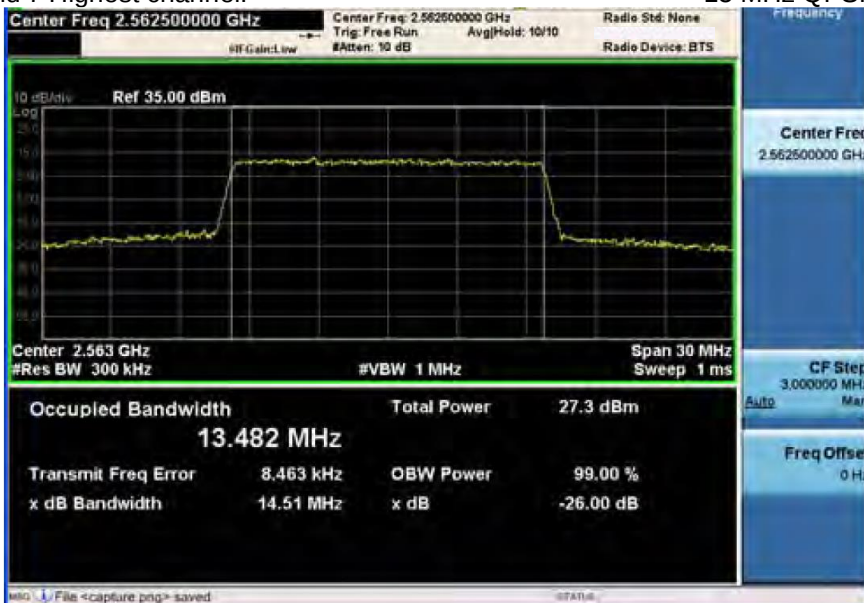
LTE Band 7 Middle channel

15 MHz QPSK



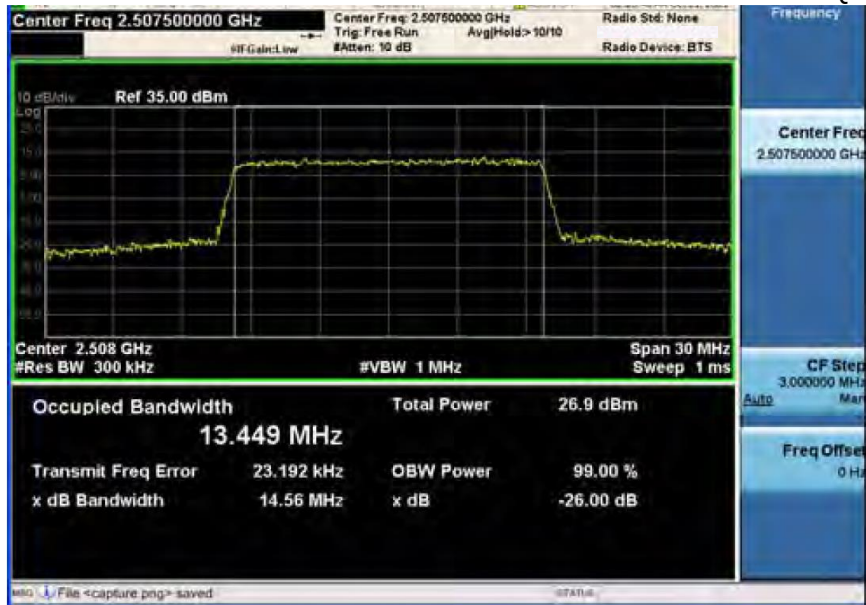
LTE Band 7 Highest channel:

15 MHz QPSK



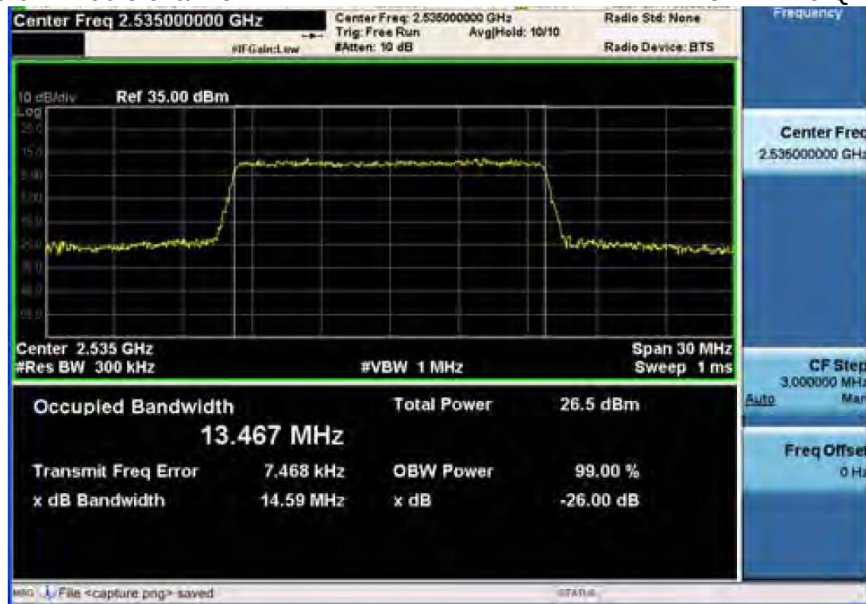
LTE Band 7 Lowest channel

15 MHz 16-QAM



LTE Band 7 Middle channel

15 MHz 16-QAM



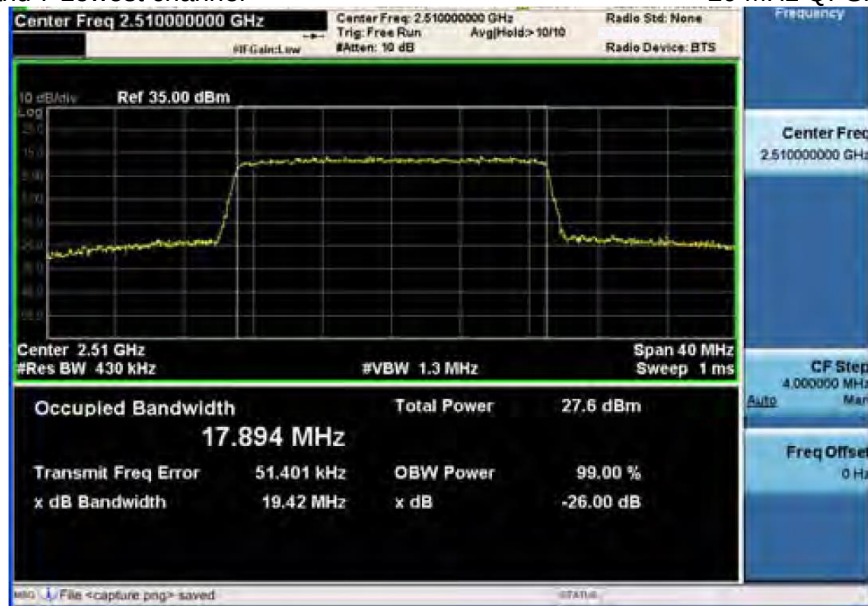
LTE Band 7 Highest channel:

15 MHz 16-QAM



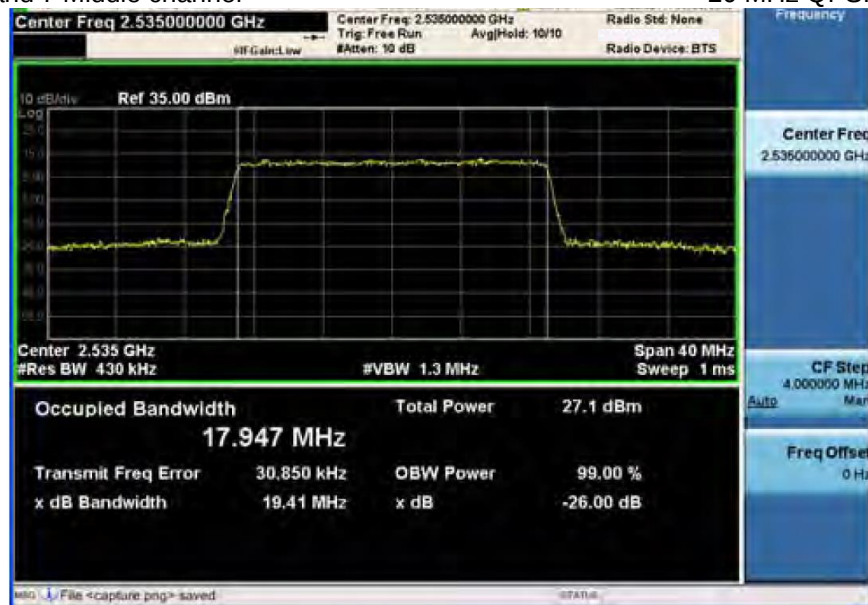
LTE Band 7 Lowest channel

20 MHz QPSK



LTE Band 7 Middle channel

20 MHz QPSK



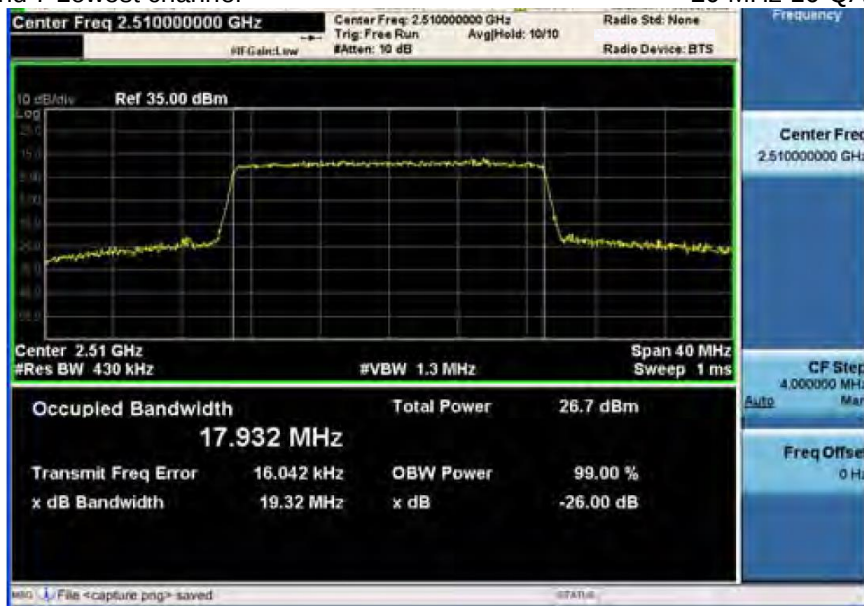
LTE Band 7 Highest channel:

20 MHz QPSK



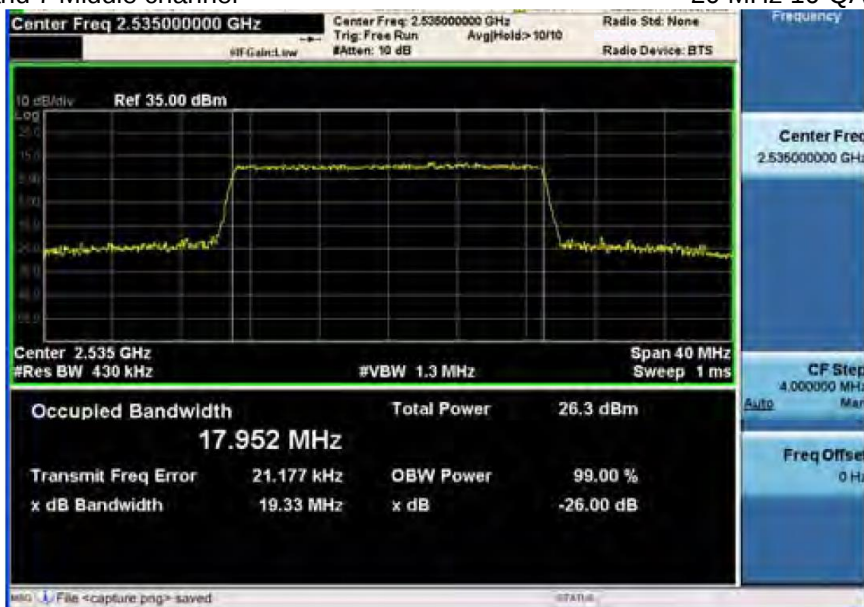
LTE Band 7 Lowest channel

20 MHz 16-QAM



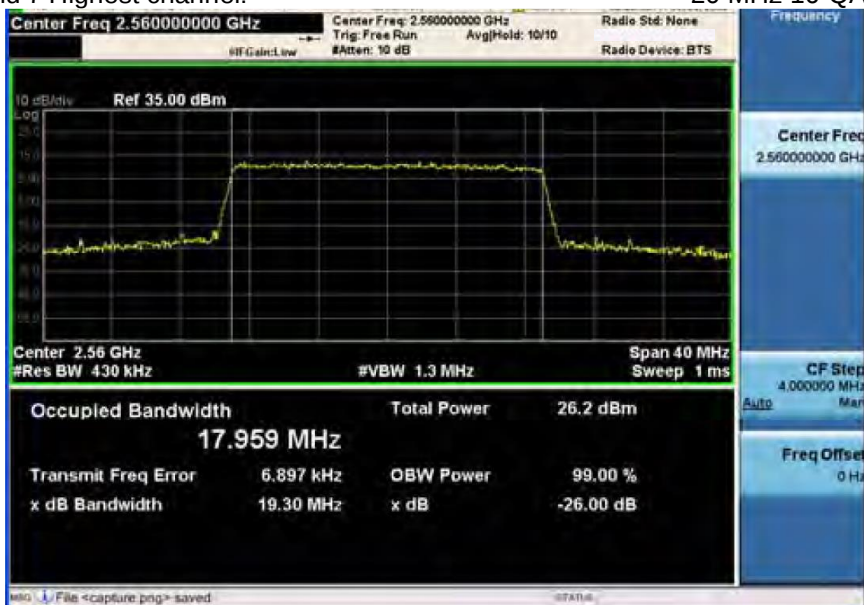
LTE Band 7 Middle channel

20 MHz 16-QAM



LTE Band 7 Highest channel:

20 MHz 16-QAM



1.2. Conducted Spurious Emissions

1.2.1. Test Result

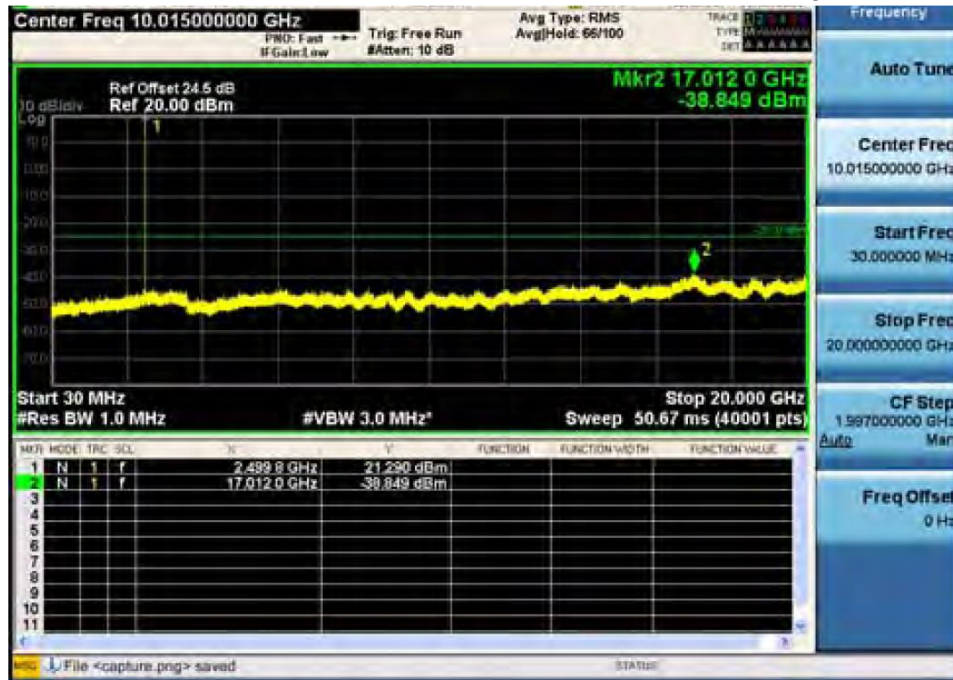
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

For LTE mode, the plot only show the QPSK,RB100's data.

Pass, the table and plot please see annex.

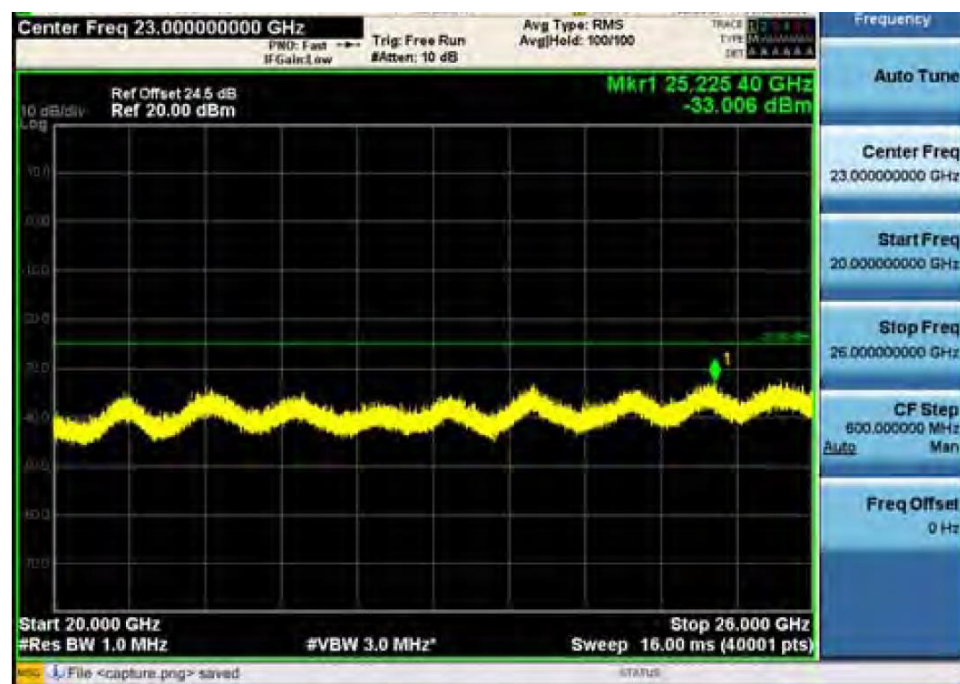
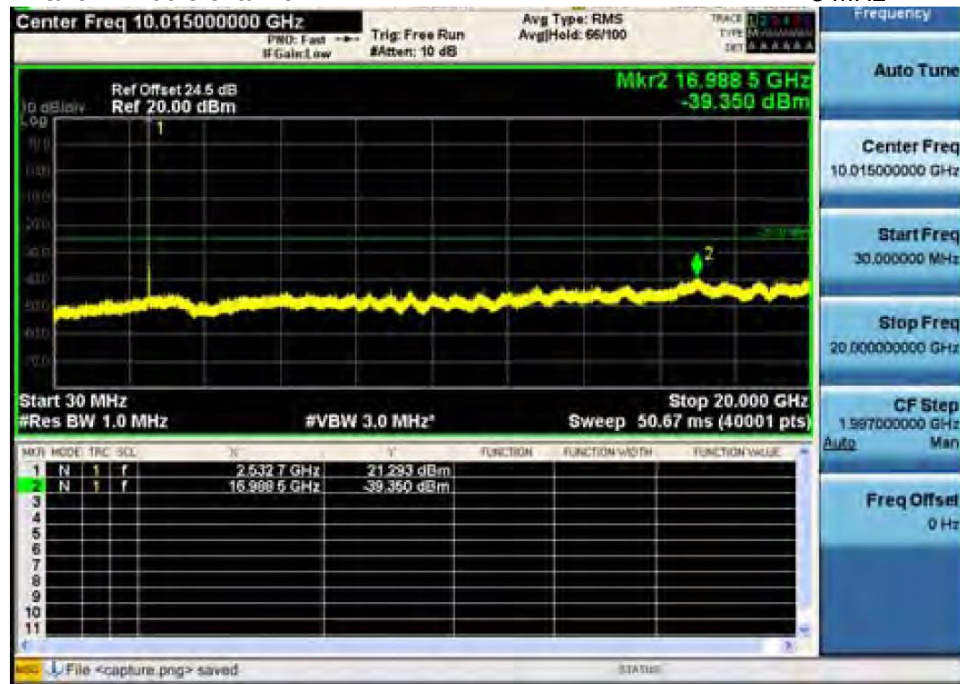
LTE Band 7 Lowest channel

5 MHz



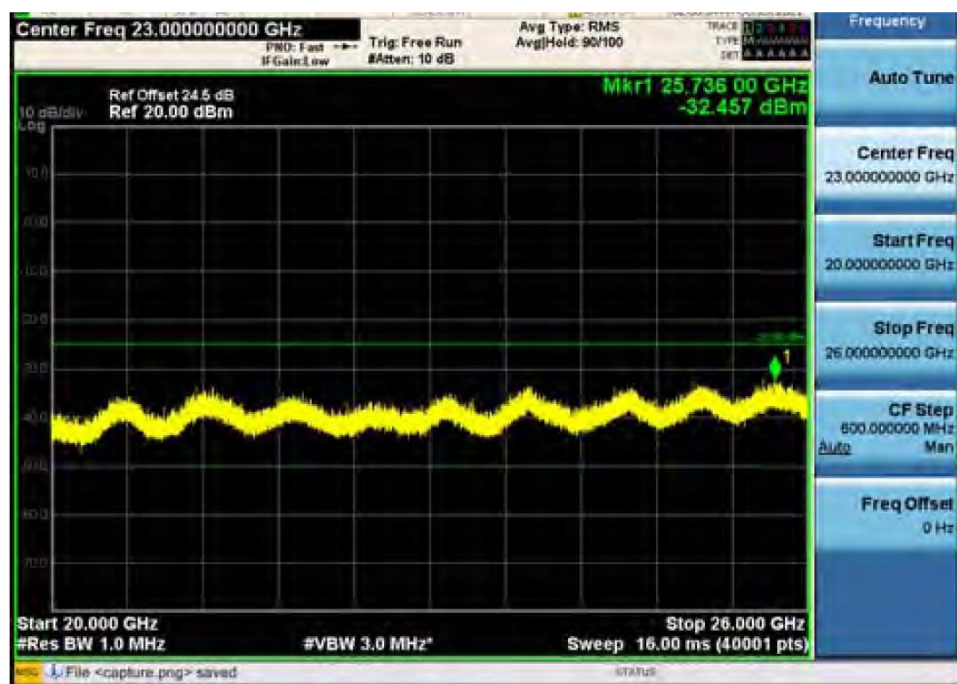
LTE Band 7 middle channel

5 MHz



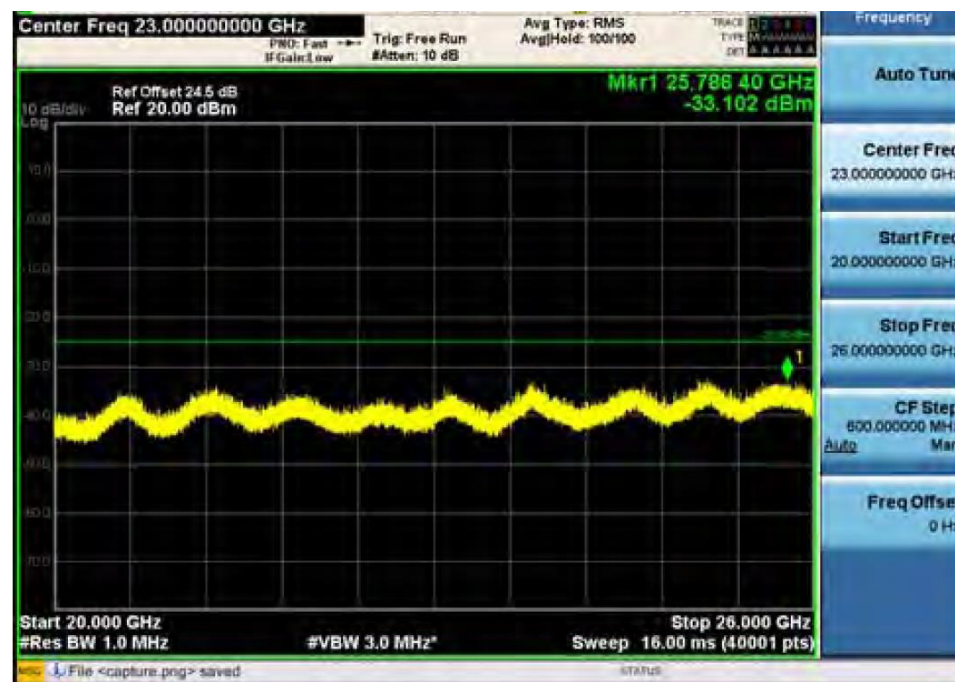
LTE Band 7 high channel

5 MHz



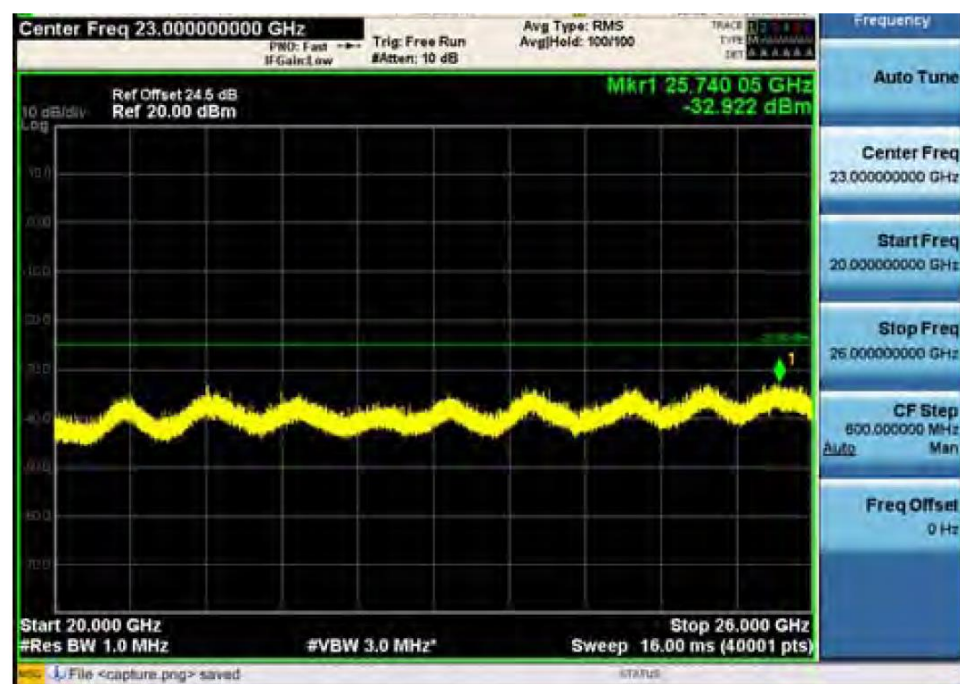
LTE Band 7 Lowest channel

10MHz



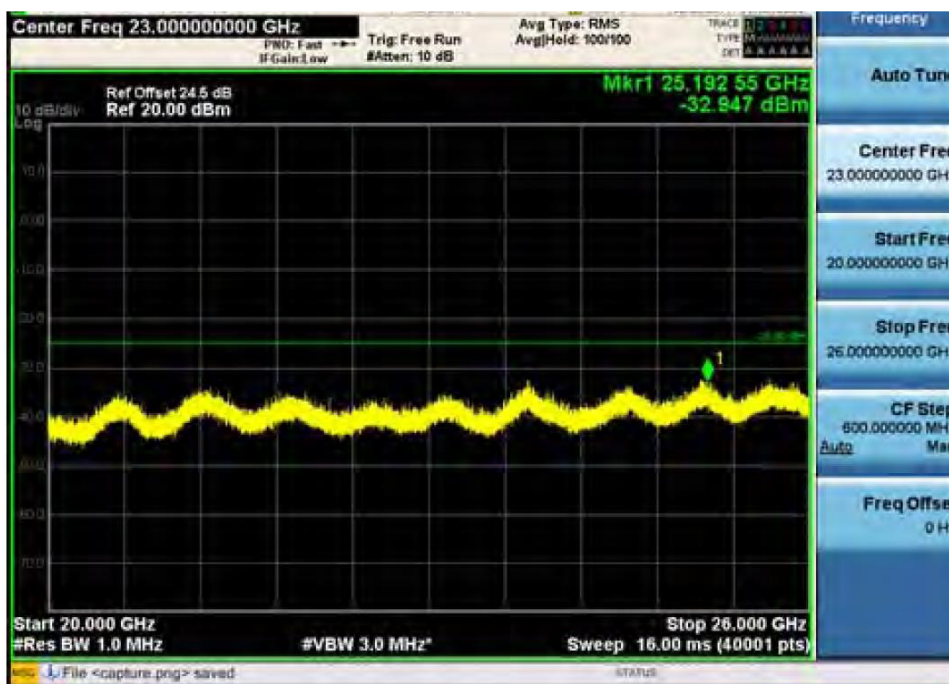
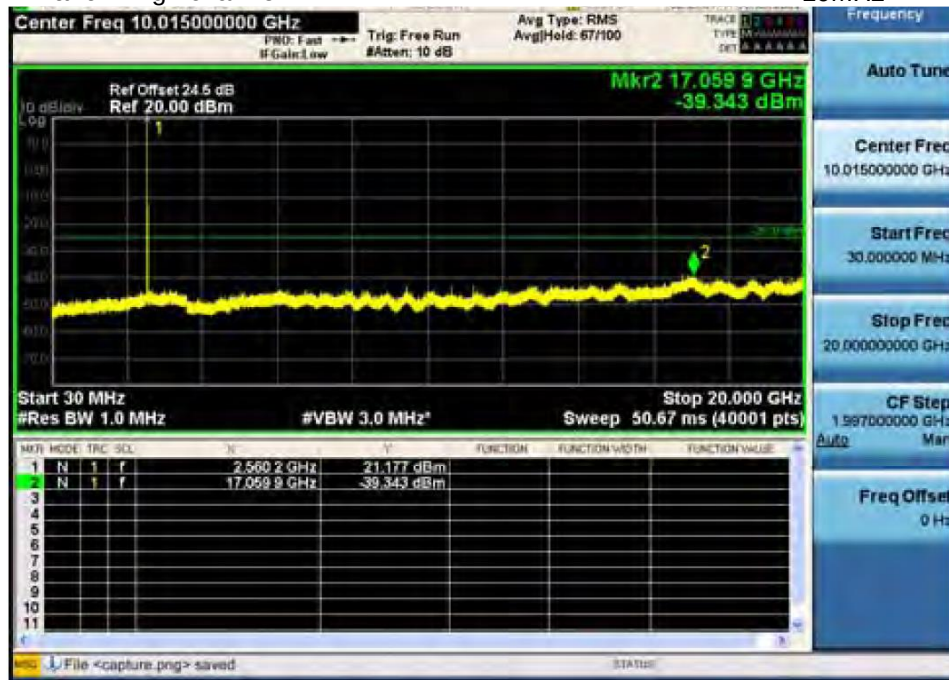
LTE Band 7 middle channel

10MHz



LTE Band 7 high channel

10MHz



LTE Band 7 Lowest channel

15MHz

