



Diagram 10-20

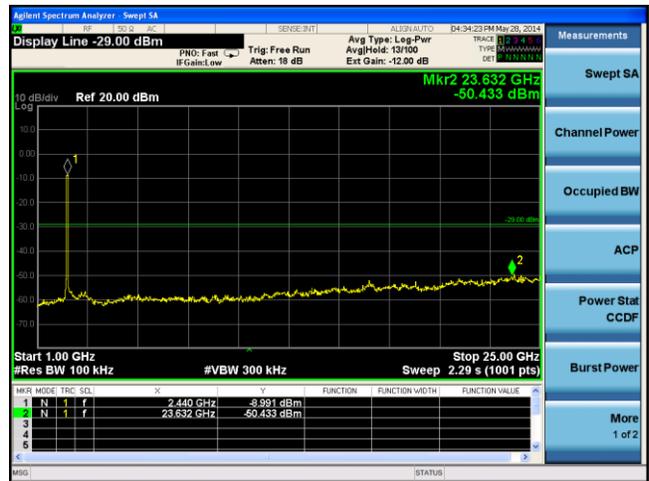
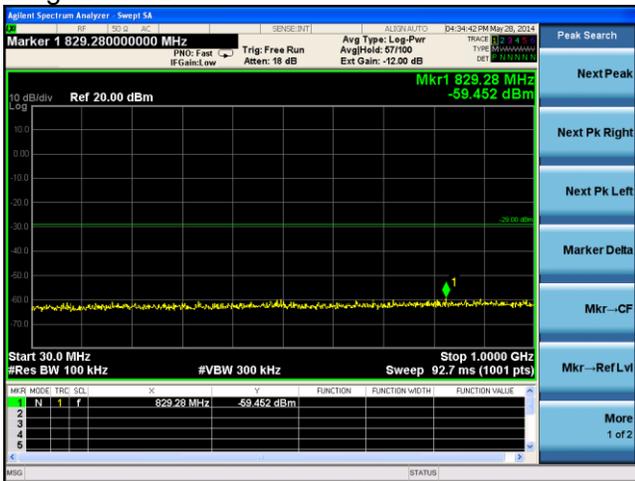
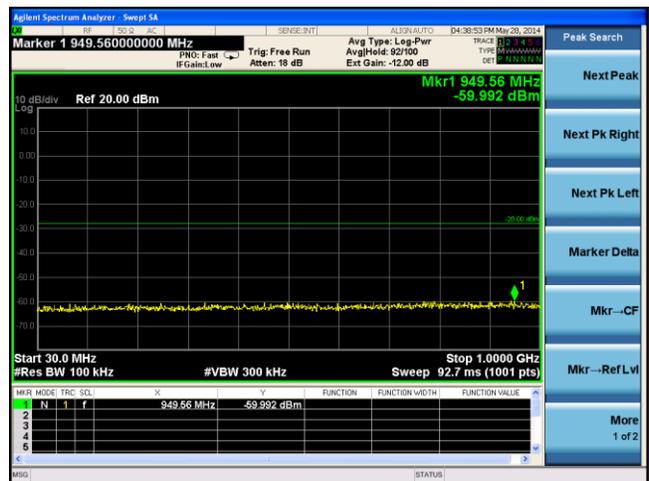
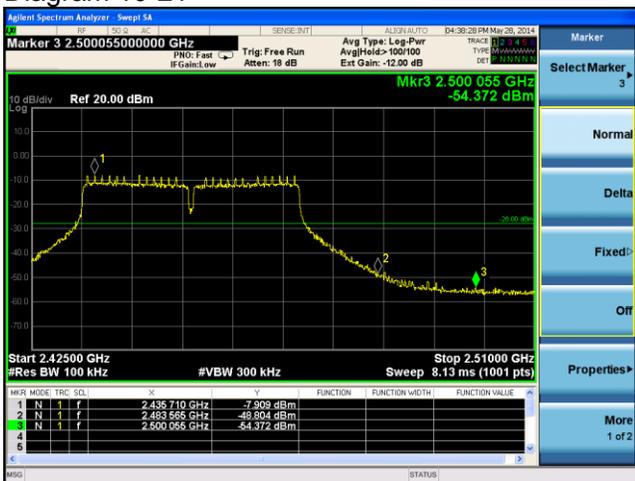


Diagram 10-21



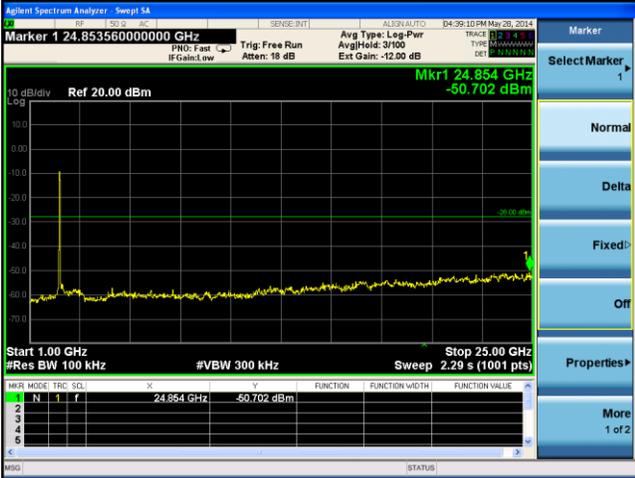


Diagram 10-22

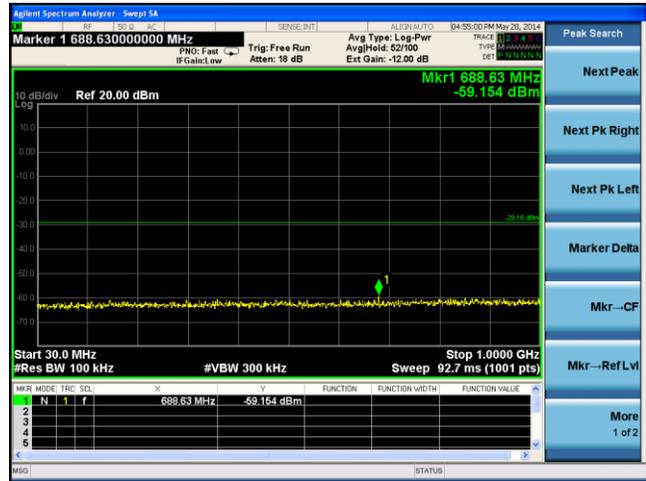


Diagram 10-23

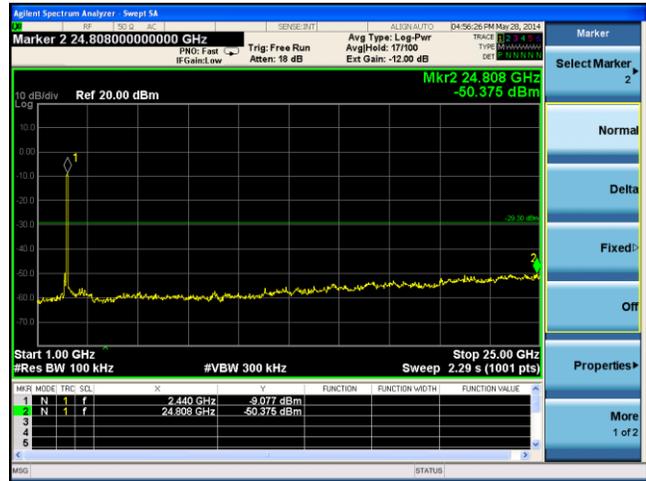
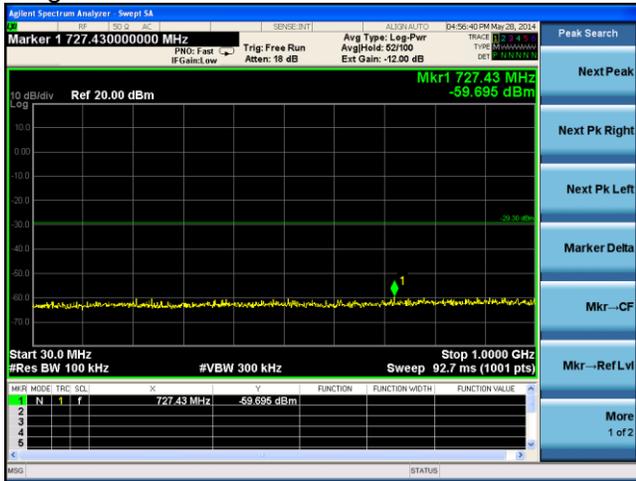
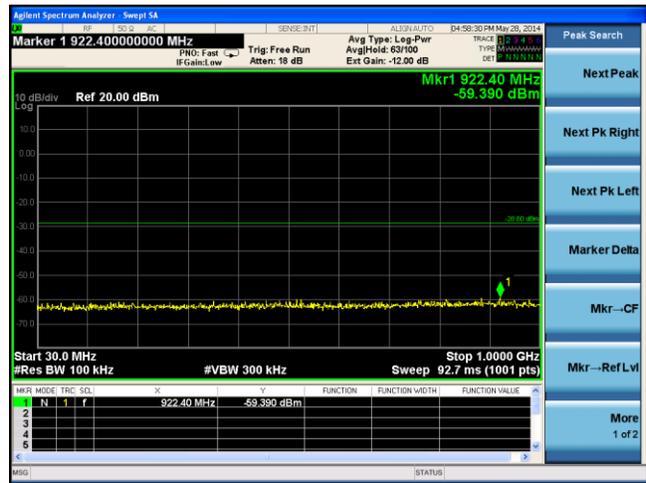


Diagram 10-24



## 11 POWER SPECTRAL DENSITY

### 11.1 Applicable Standard: FCC § 15.247(e)

For digitally modulated systems, the power spectral density conducted from the intentional Radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### 11.2 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	MY48011941	2014-6-16	2015-6-16

\***statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements, traceable to NIST.

### 11.3 Test Procedure

Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range. Adjust the center frequency of SA on any frequency be measured and set the span to 1.5 times the channel bandwidth. And then, set RBW=3kHz, and VBW=10kHz. Detector = Peak, Trace mode = max hold, Sweep = auto couple.

### 11.4 Test Data Environmental Conditions

Temperature:	20 °C
Relative Humidity:	53 %
ATM Pressure:	1009 mbar

### 11.5 Test Result: Pass

Mode	Channel	Antenna Port	Power Spectral Density(dBm)	Total Power Spectral Density(dBm)	Limit (dBm)	Test Data	Result
802.11.b	CH LOW	Port 1	-15.556	-11.434	8	Diagram 11-1	Pass
		Port 2	-13.560				Pass
	CH MID	Port 1	-14.334	-11.564	8	Diagram 11-2	Pass
		Port 2	-14.829				Pass
	CH HIGH	Port 1	-14.711	-11.699	8	Diagram 11-3	Pass
		Port 2	-14.707				Pass
802.11.g	CH LOW	Port 1	-20.094	-17.328	8	Diagram 11-4	Pass
		Port 2	-20.597				Pass
	CH MID	Port 1	-14.641	-13.469	8	Diagram 11-5	Pass
		Port 2	-19.730				Pass
	CH HIGH	Port 1	-20.567	-17.101	8	Diagram 11-6	Pass
		Port 2	-19.698				Pass
802.11.n. HT20	CH LOW	Port 1	-22.766	-15.028	8	Diagram 11-7	Pass
		Port 2	-15.828				Pass
	CH MID	Port 1	-19.503	-17.273	8	Diagram 11-8	Pass
		Port 2	-21.234				Pass
	CH HIGH	Port 1	-21.818	-15.537	8	Diagram 11-9	Pass
		Port 2	-16.703				Pass
802.11.n. HT40	CH LOW	Port 1	-23.107	-20.357	8	Diagram 11-10	Pass
		Port 2	-23.644				Pass
	CH MID	Port 1	-23.453	-20.655	8	Diagram 11-11	Pass
		Port 2	-23.889				Pass
	CH HIGH	Port 1	-24.046	-20.432	8	Diagram 11-12	Pass
		Port 2	-22.913				Pass

Please refer to following plots.

Diagram 11-1



Diagram 11-2



Diagram 11-3

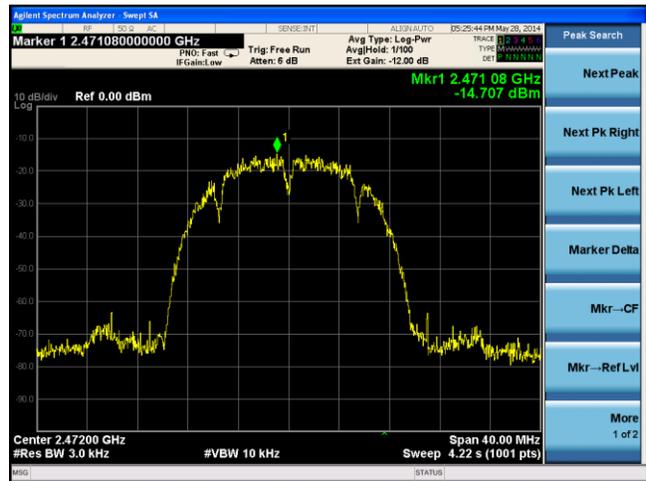
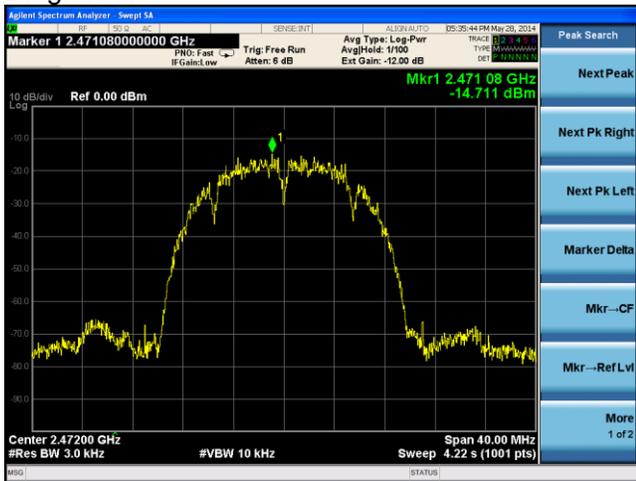


Diagram 11-4

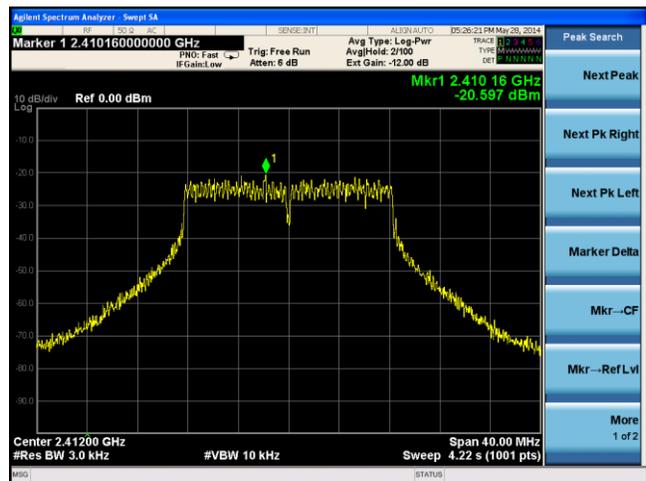
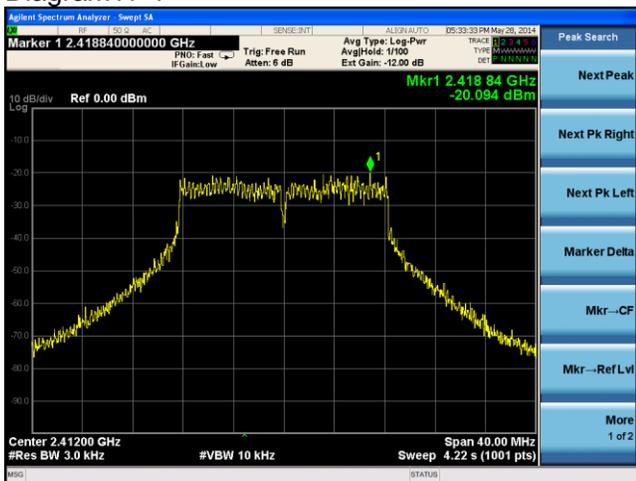


Diagram11-5

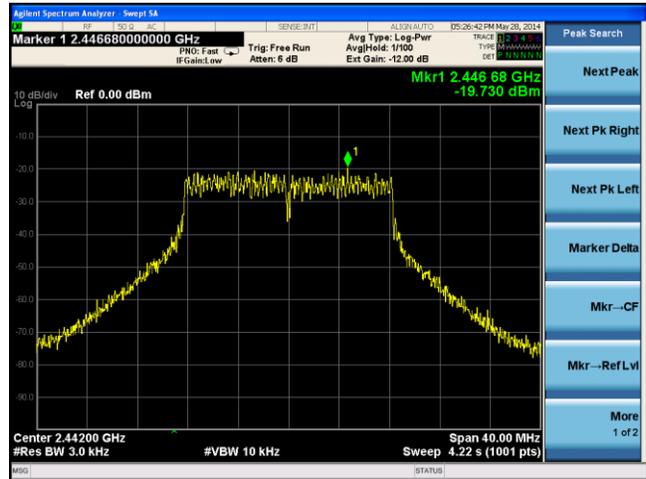
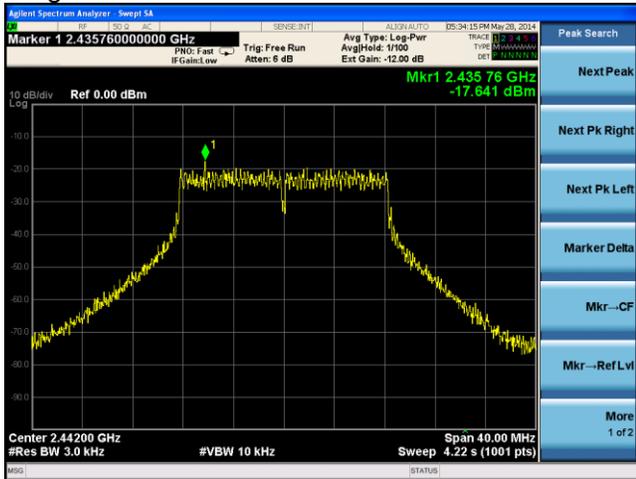


Diagram11-6

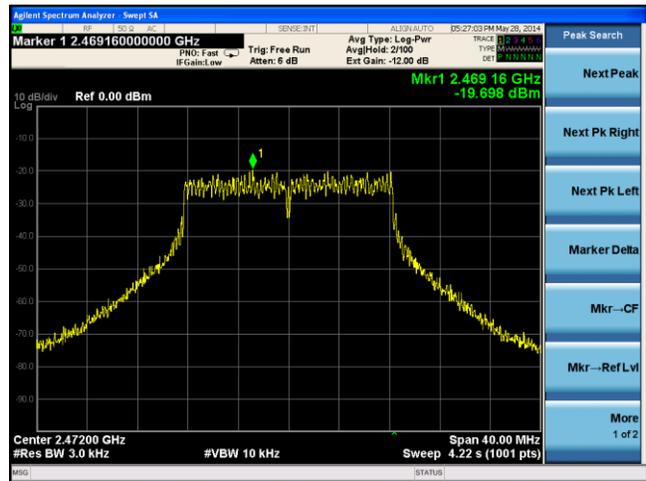
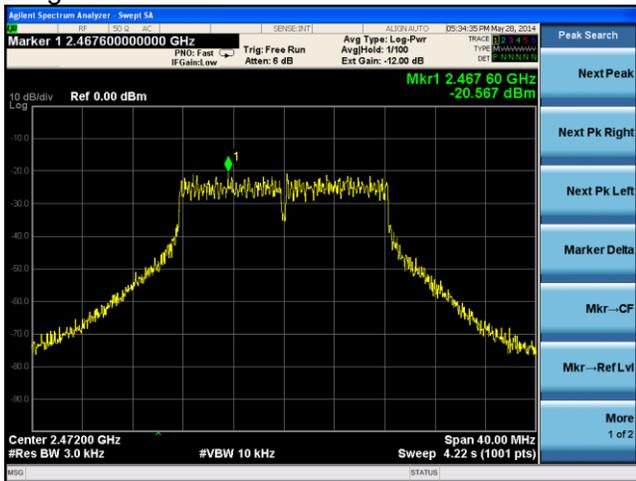


Diagram11-7

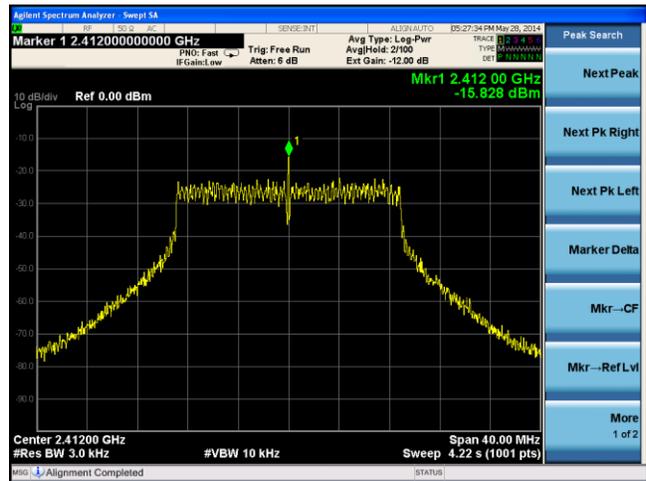
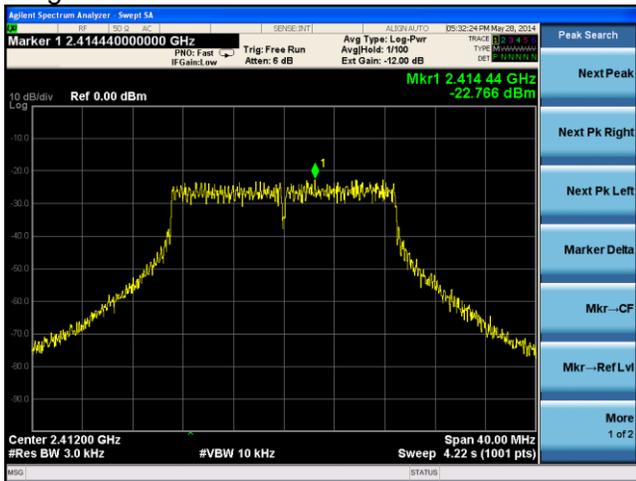


Diagram11-8

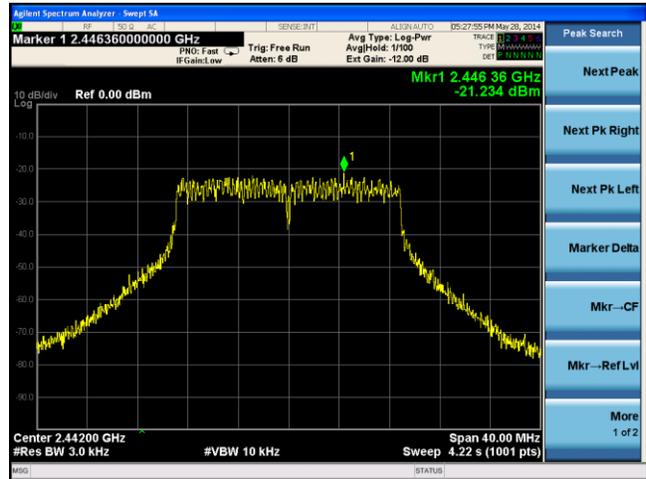
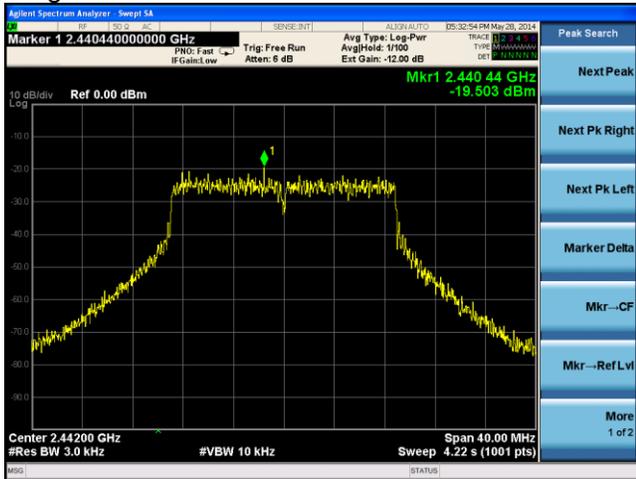


Diagram11-9

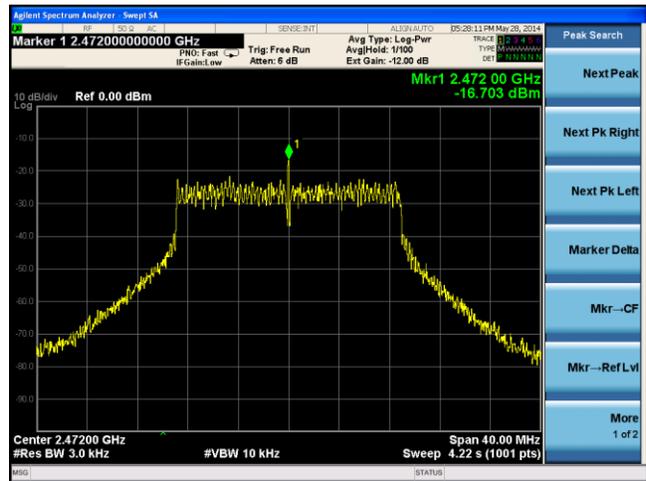
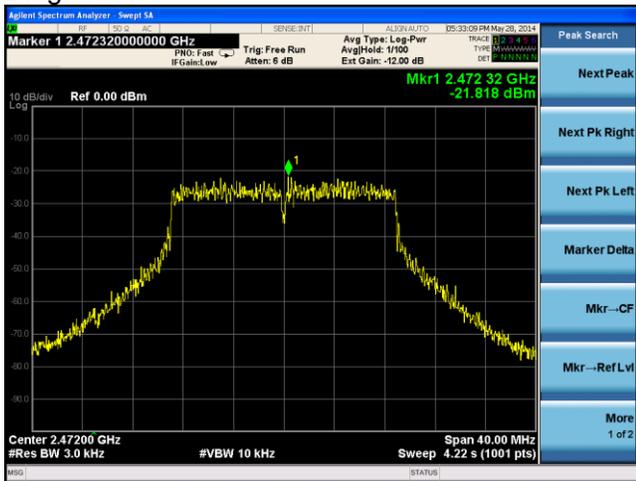


Diagram11-10

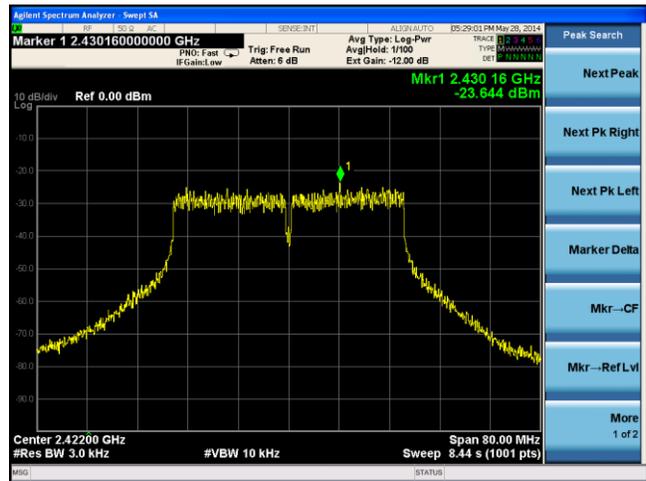
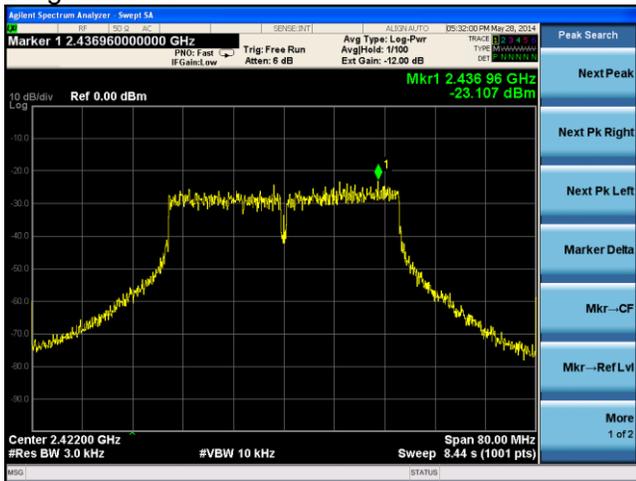


Diagram11-11

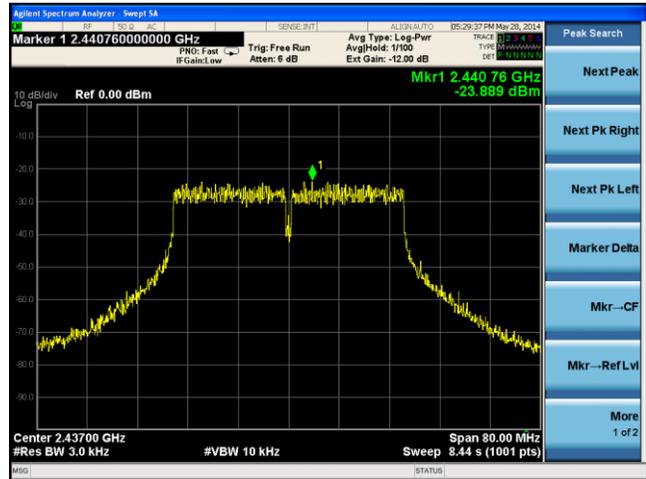
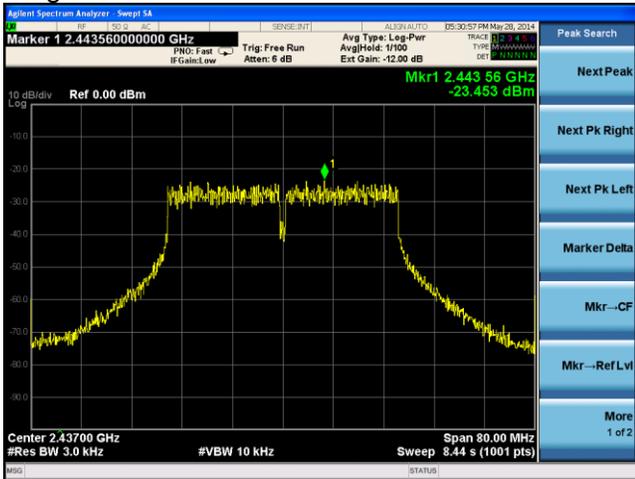


Diagram11-12

