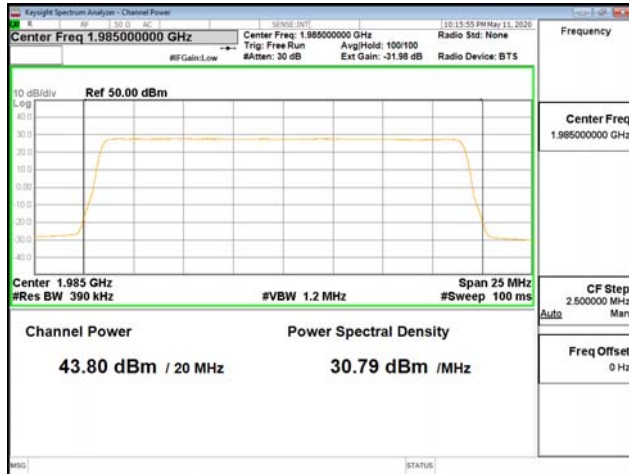
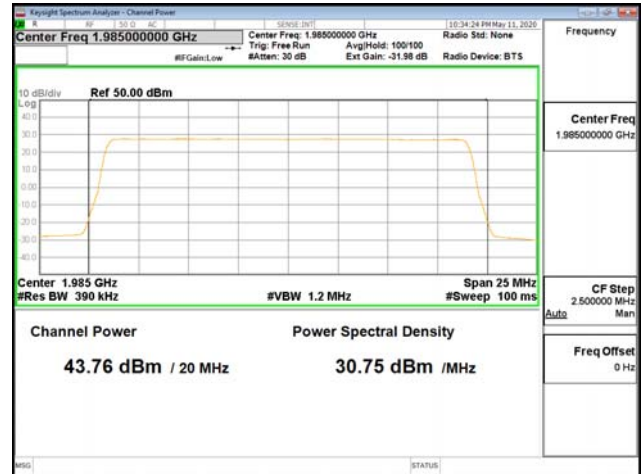


**Band 25, BW 20MHz, Single carrier, Top
ANT 0**

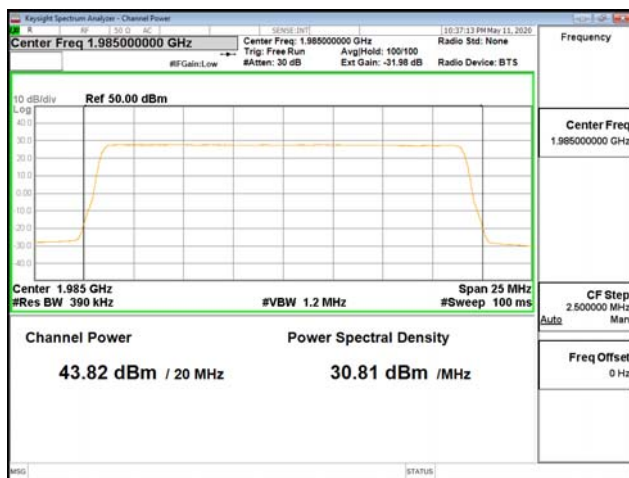
QPSK



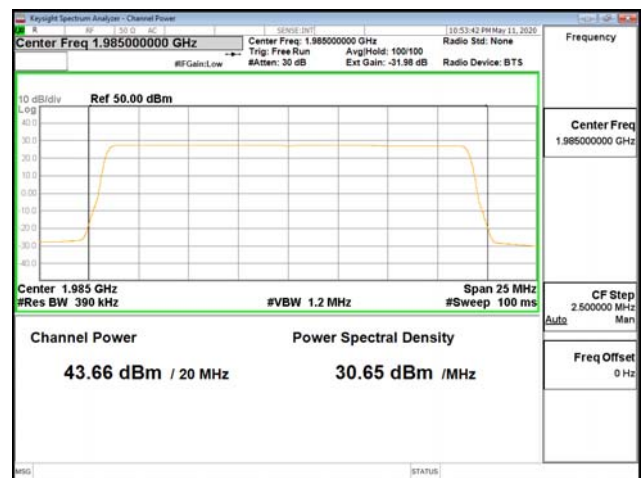
16QAM



64QAM

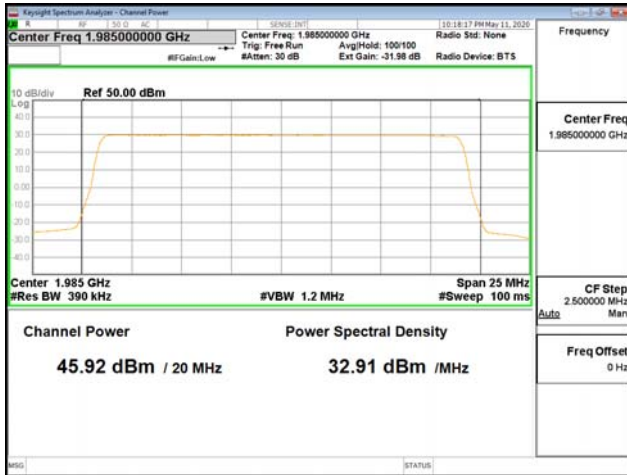


256QAM

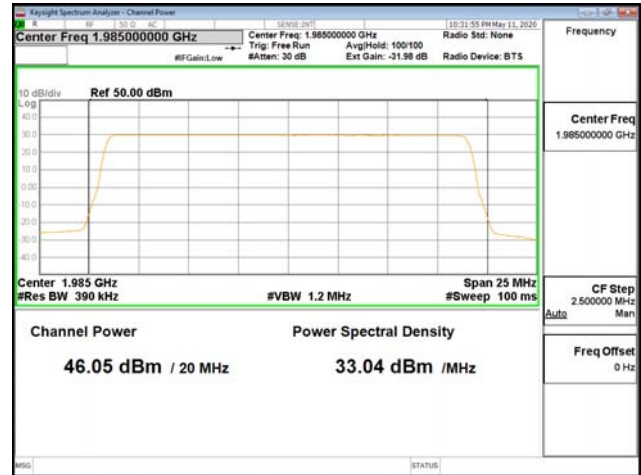


ANT 1

QPSK



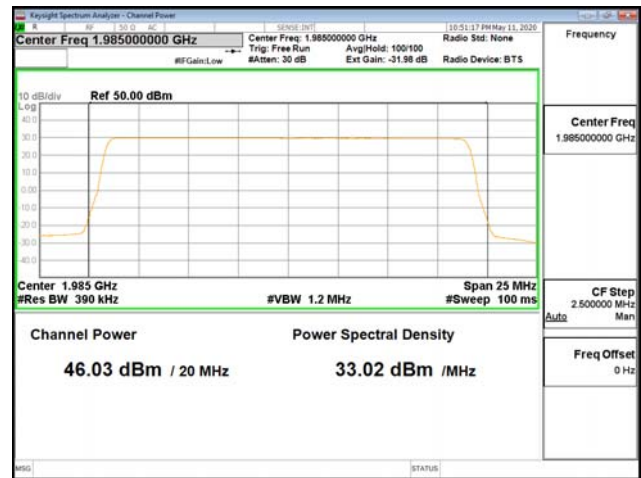
16QAM



64QAM

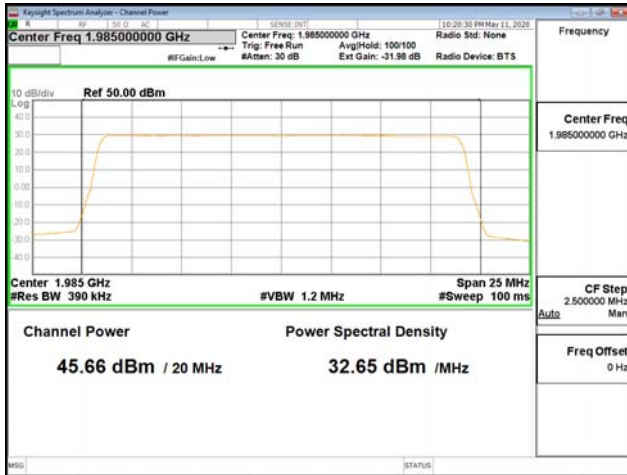


256QAM

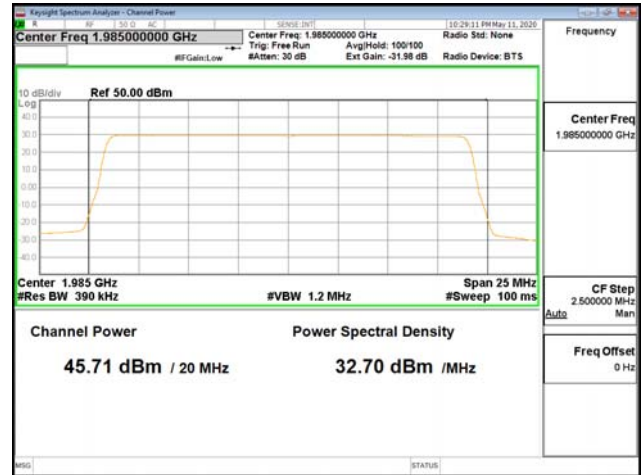


ANT 2

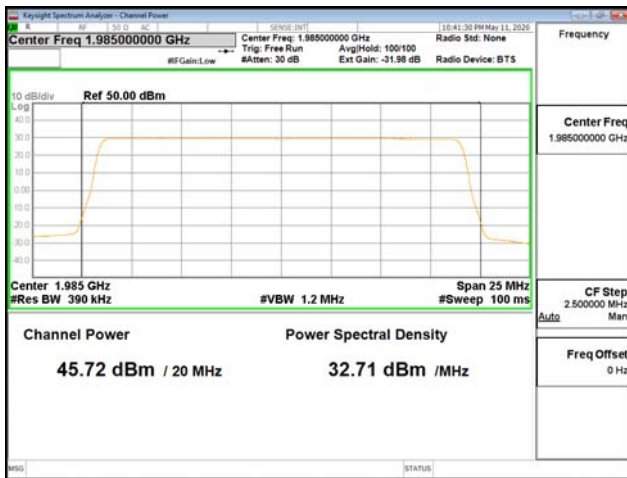
QPSK



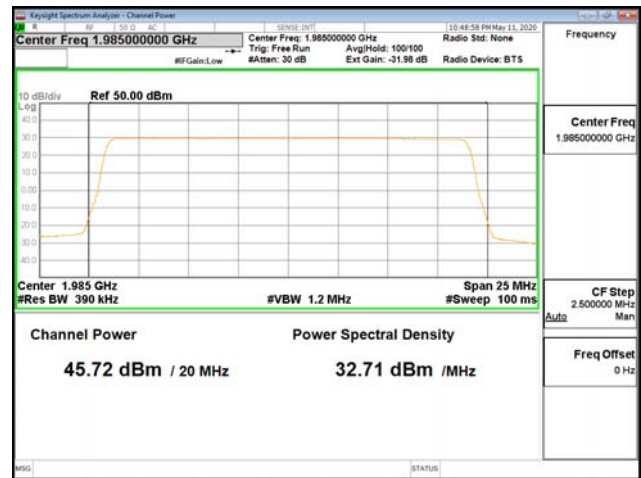
16QAM



64QAM

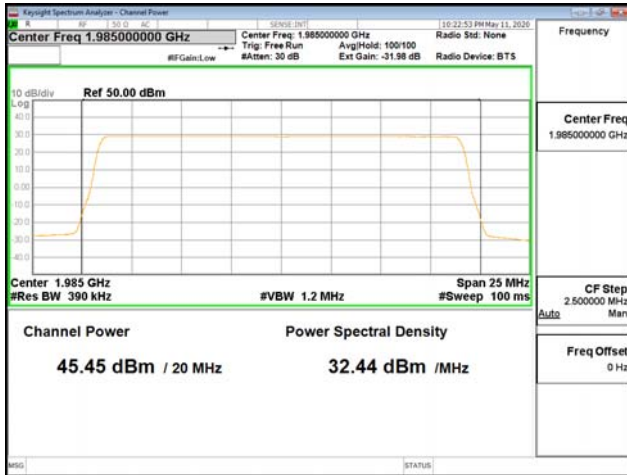


256QAM

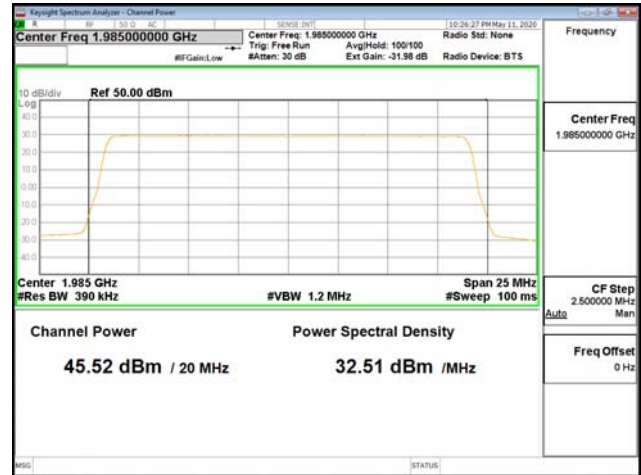


ANT 3

QPSK



16QAM



64QAM



256QAM



**Band 25, BW 5MHz+20MHz, Multi 2 carrier, Bottom
ANT 0**

QPSK



16QAM



64QAM



256QAM



ANT 1

QPSK



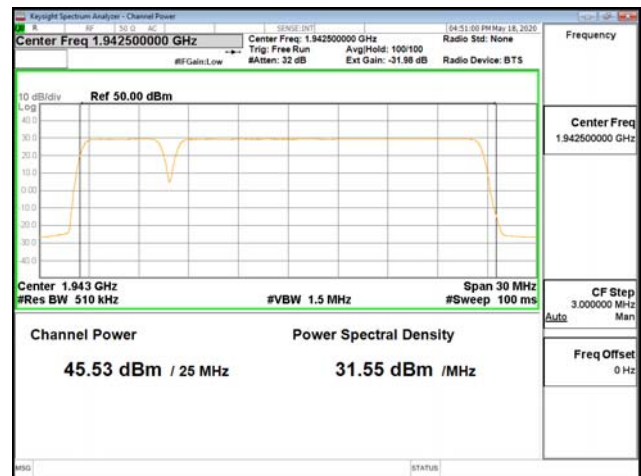
16QAM



64QAM



256QAM



ANT 2

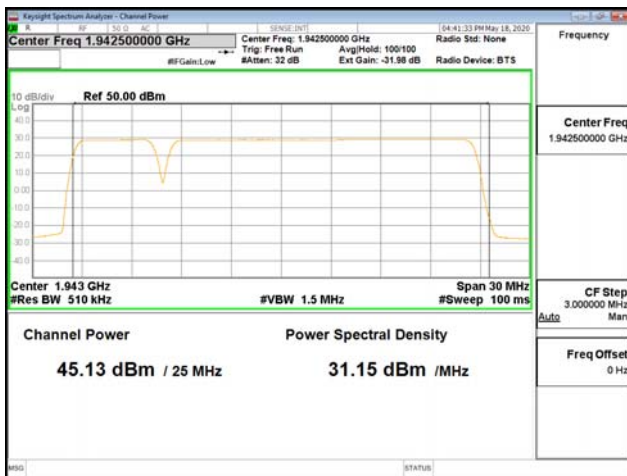
QPSK



16QAM



64QAM



256QAM



ANT 3

QPSK



16QAM



64QAM



256QAM



**Band 25, BW 5MHz+20MHz, Multi 2 carrier, Middle
ANT 0**

QPSK



16QAM



64QAM



256QAM



ANT 1

QPSK



16QAM



64QAM



256QAM



ANT 2

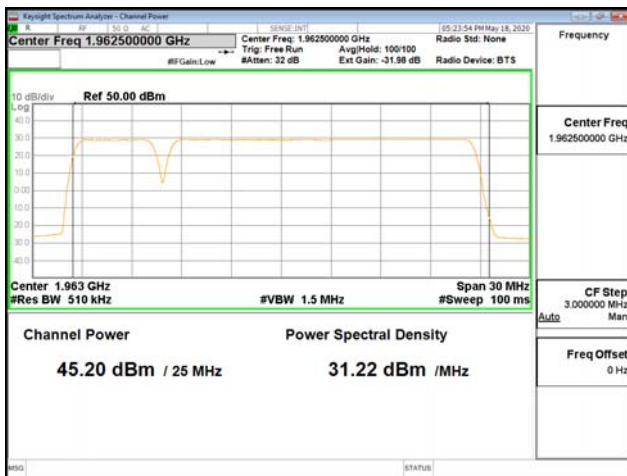
QPSK



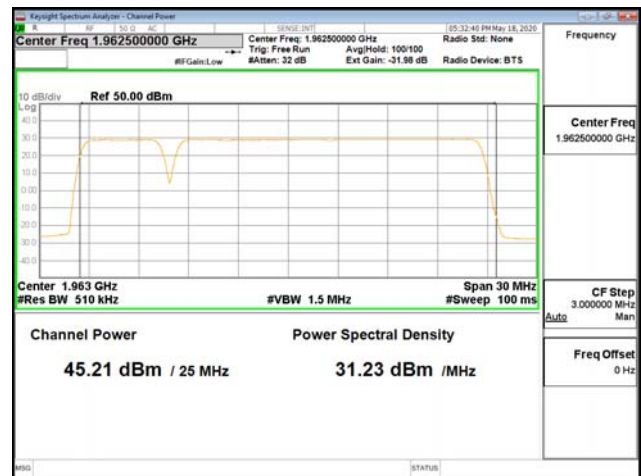
16QAM



64QAM



256QAM



ANT 3

QPSK



16QAM



64QAM



256QAM



**Band 25, BW 5MHz+20MHz, Multi 2 carrier, Top
ANT 0**

QPSK



16QAM



64QAM



256QAM



ANT 1

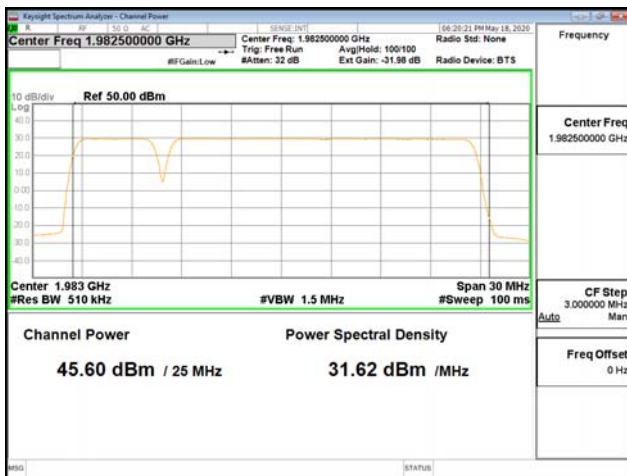
QPSK



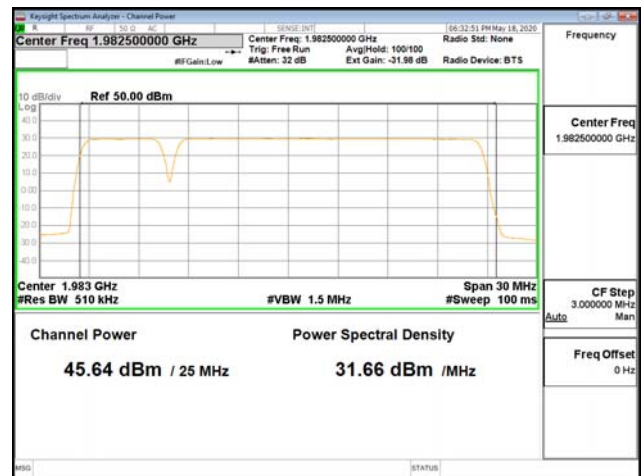
16QAM



64QAM



256QAM

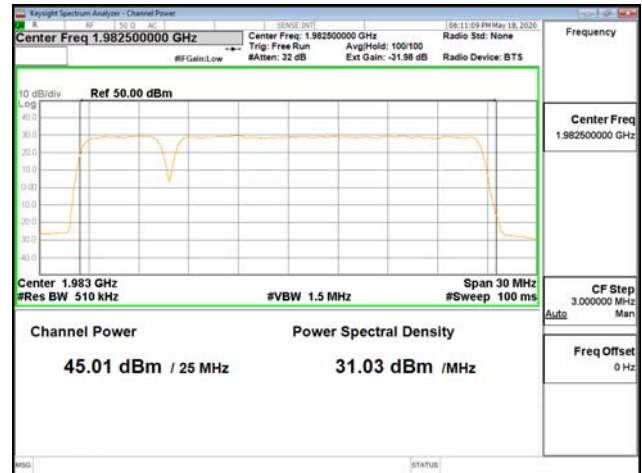


ANT 2

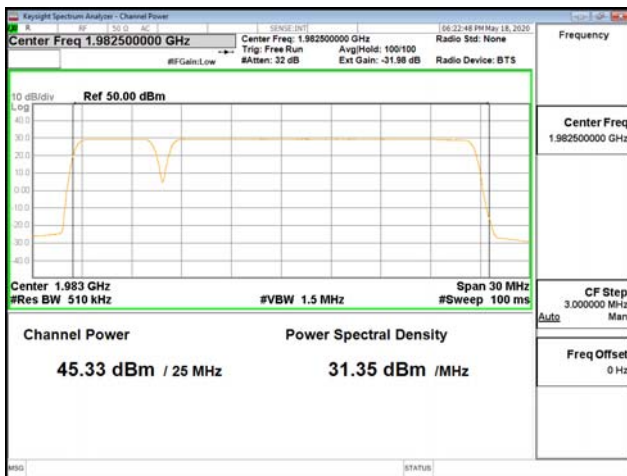
QPSK



16QAM



64QAM



256QAM



ANT 3

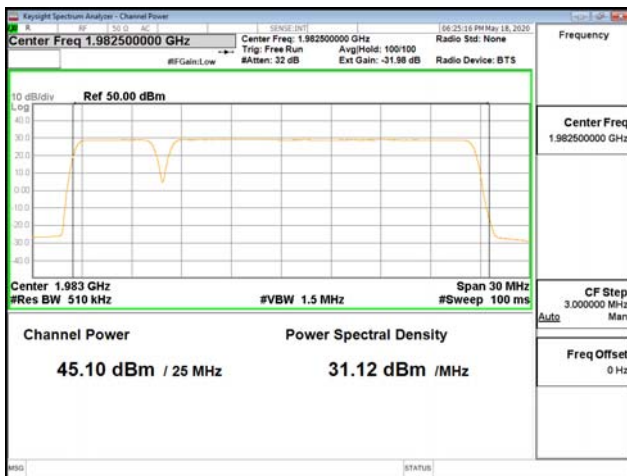
QPSK



16QAM



64QAM



256QAM



**Band 25, BW 5MHz+5MHz+10MHz, Multi 3 carrier, Bottom
ANT 0**

QPSK



16QAM



64QAM



256QAM



ANT 1

QPSK



16QAM



64QAM



256QAM



ANT 2

QPSK



16QAM



64QAM



256QAM



ANT 3

QPSK



16QAM



64QAM



256QAM



**Band 25, BW 5MHz+5MHz+10MHz, Multi 3 carrier, Middle
ANT 0**

QPSK



16QAM



64QAM



256QAM



ANT 1

QPSK



16QAM



64QAM



256QAM



ANT 2

QPSK



16QAM



64QAM



256QAM



ANT 3

QPSK



16QAM



64QAM



256QAM



**Band 25, BW 5MHz+5MHz+10MHz, Multi 3 carrier, Top
ANT 0**

QPSK



16QAM



64QAM

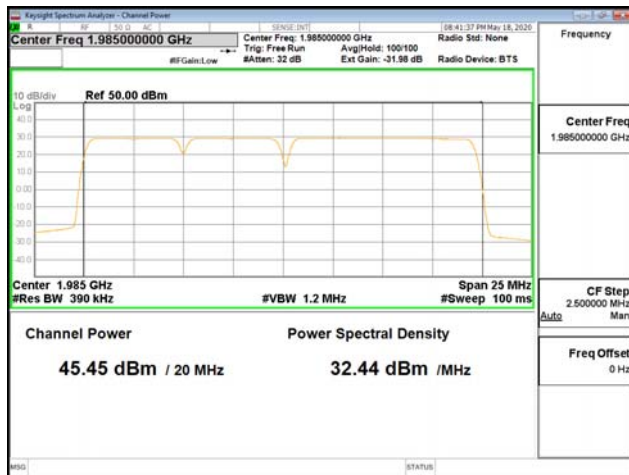


256QAM



ANT 1

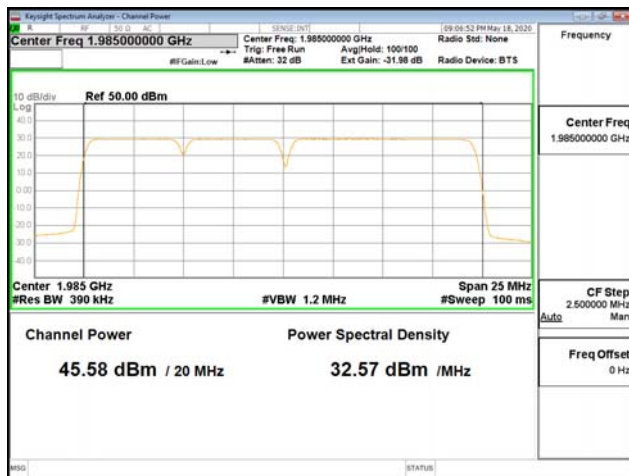
QPSK



16QAM



64QAM



256QAM



ANT 2

QPSK



16QAM



64QAM



256QAM



ANT 3

QPSK



16QAM



64QAM



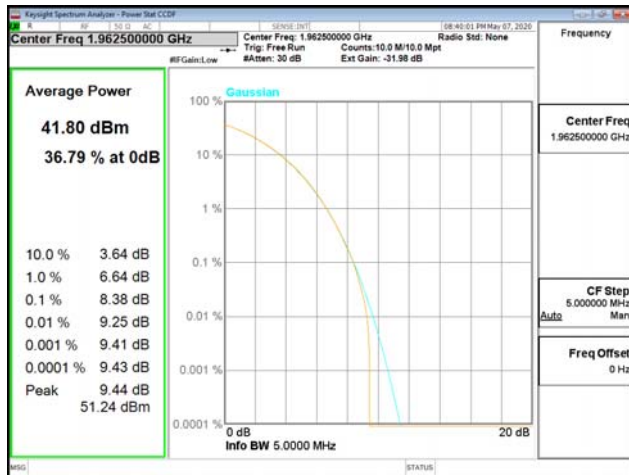
256QAM



Test Plot at Peak-to-Average Ratio

Band 25, BW 5MHz, Single carrier, Middle ANT0

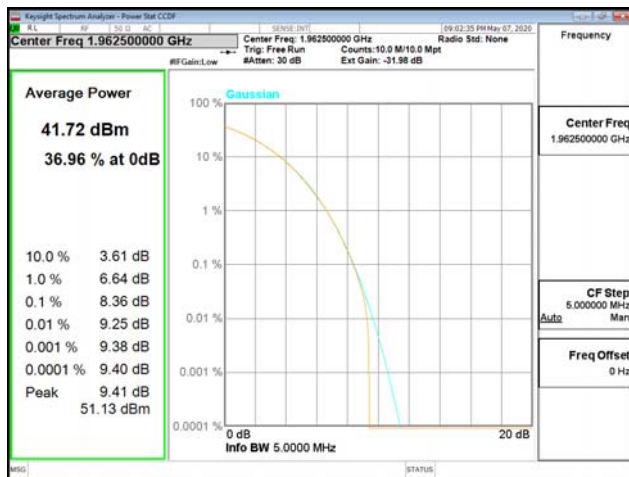
QPSK



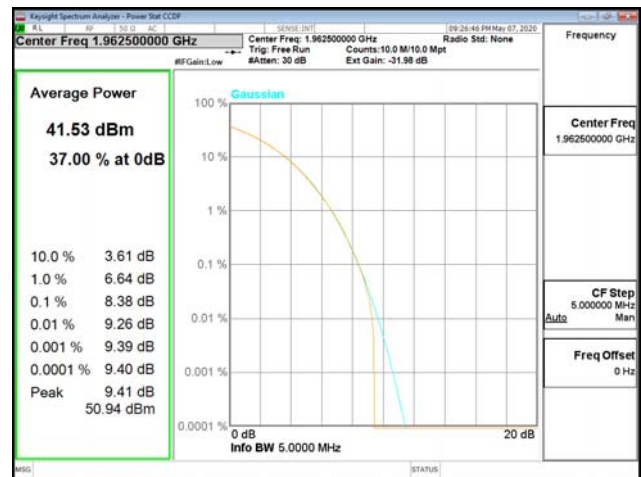
16QAM



64QAM

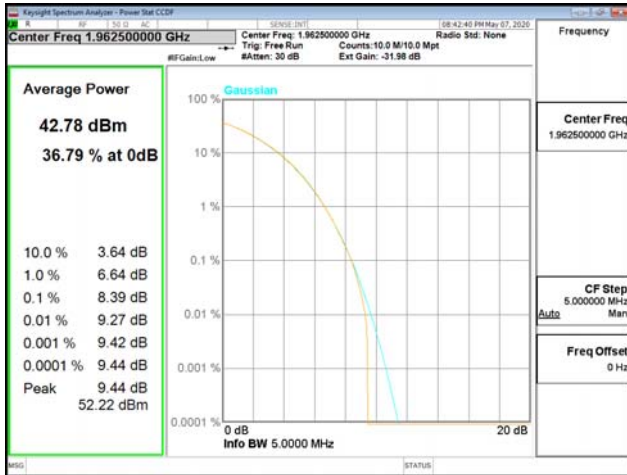


256QAM

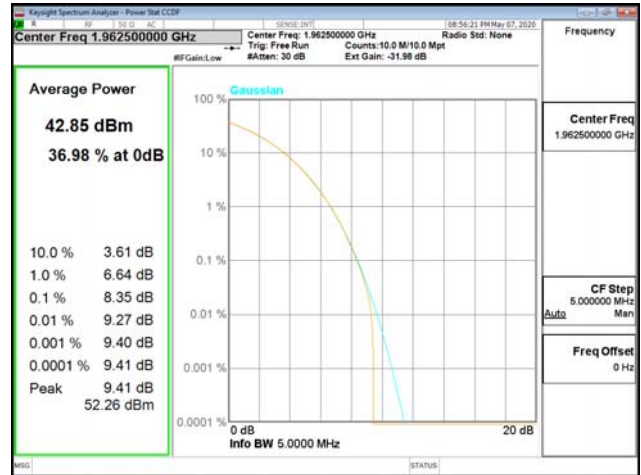


ANT1

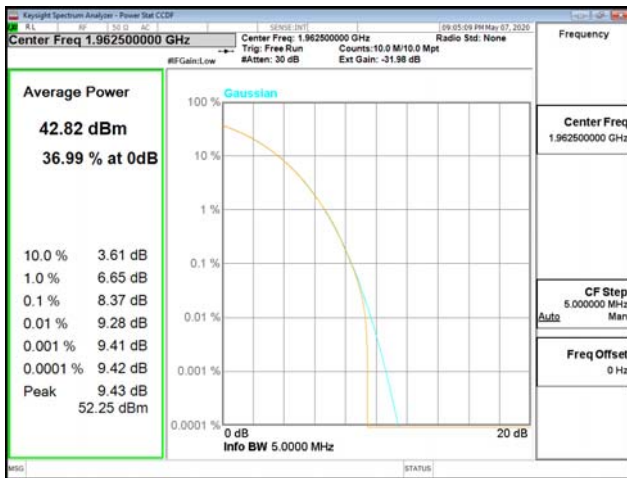
QPSK



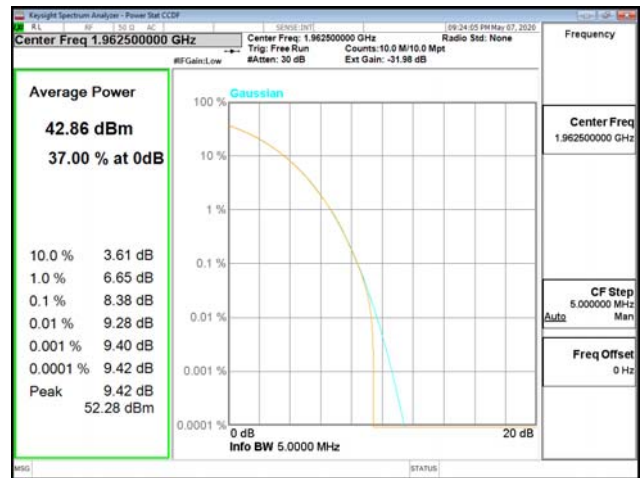
16QAM



64QAM

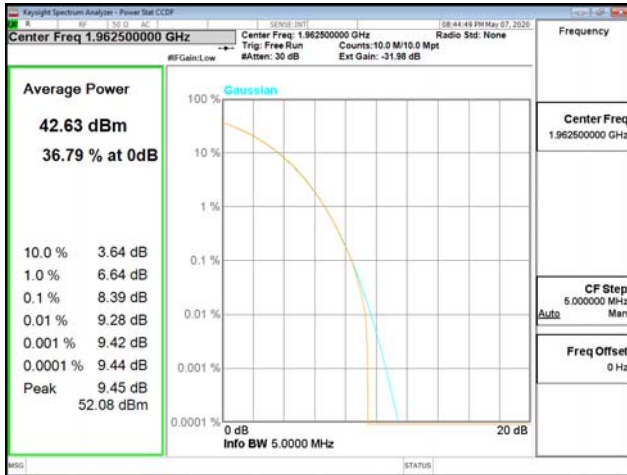


256QAM

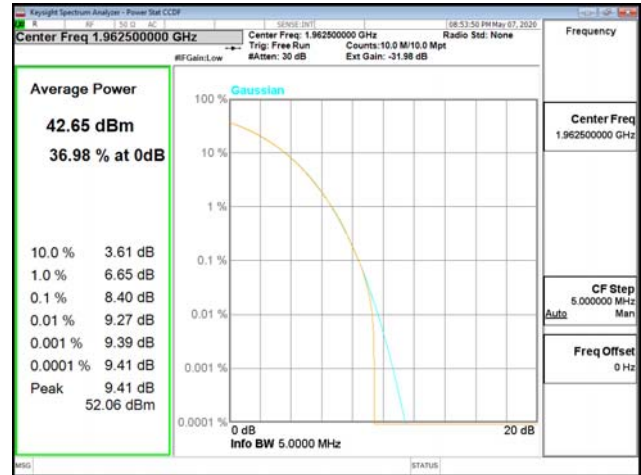


ANT2

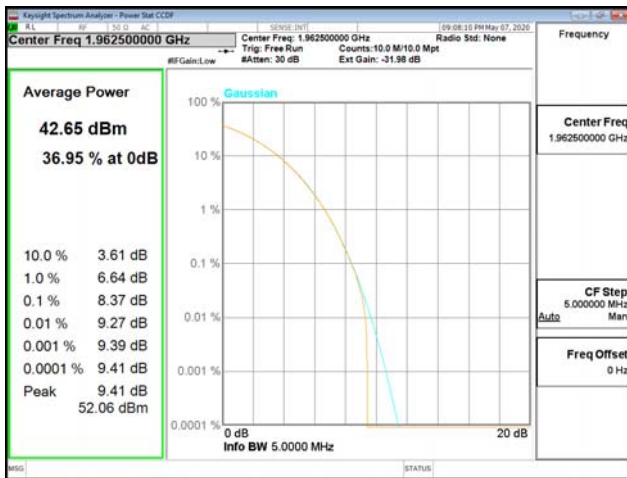
QPSK



16QAM



64QAM

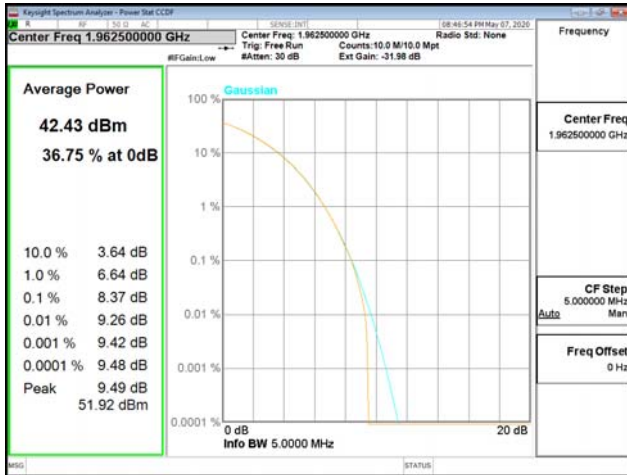


256QAM

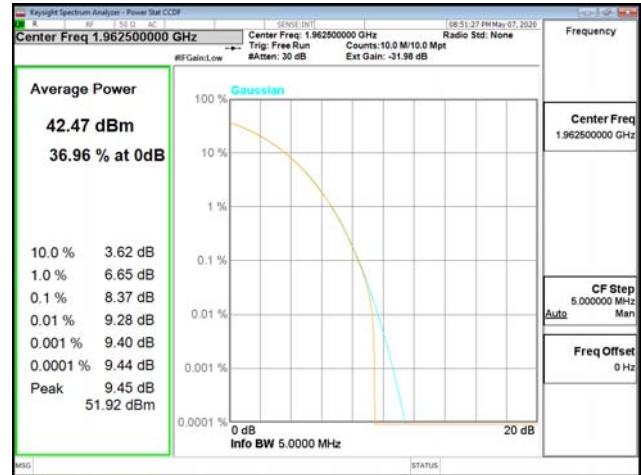


ANT3

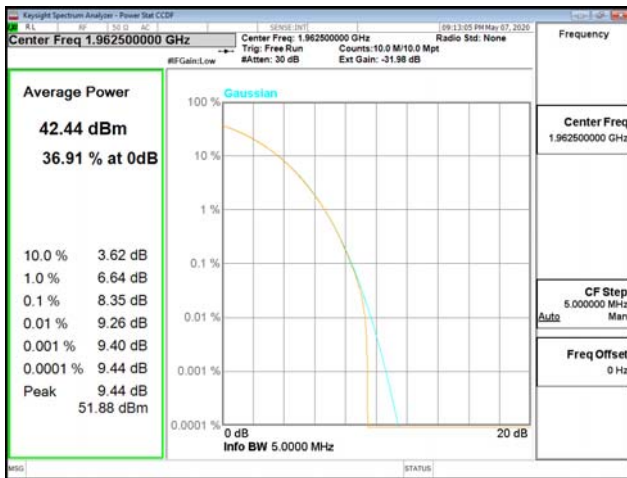
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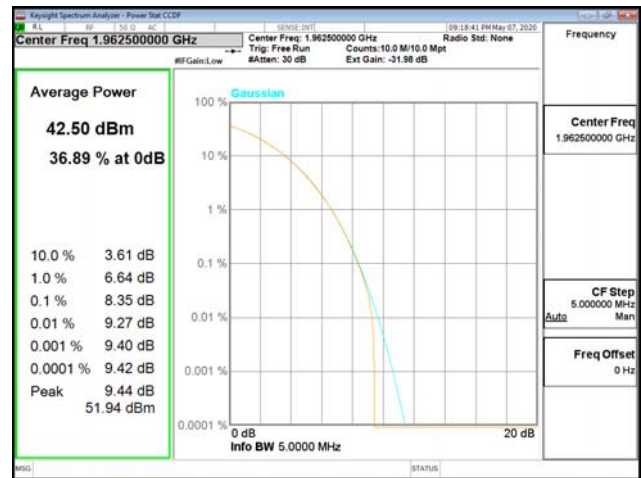
16QAM



64QAM

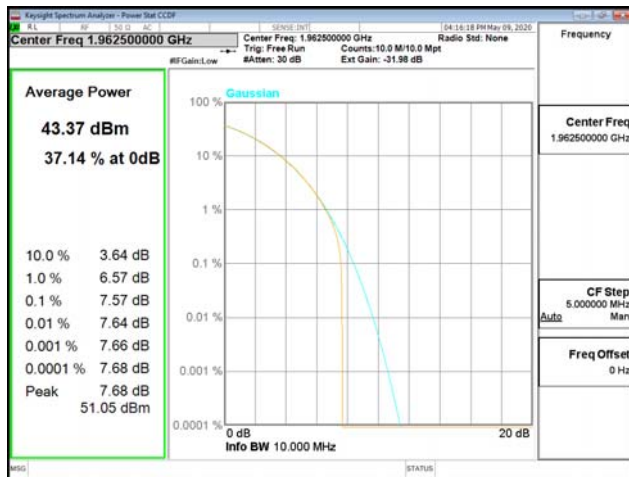


256QAM

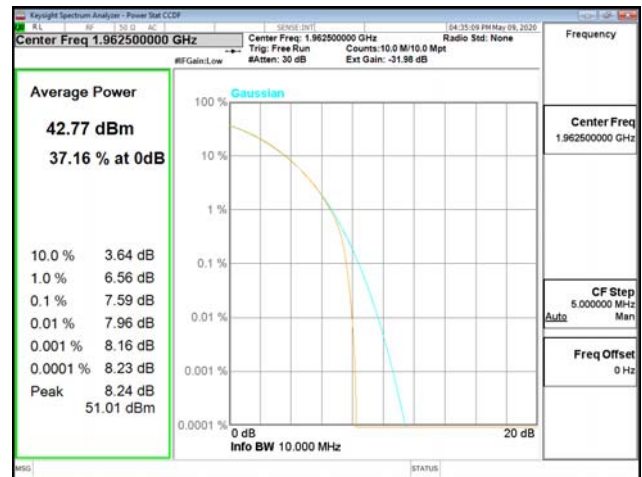


**Band 25, BW 10MHz, Single carrier, Middle
ANT0**

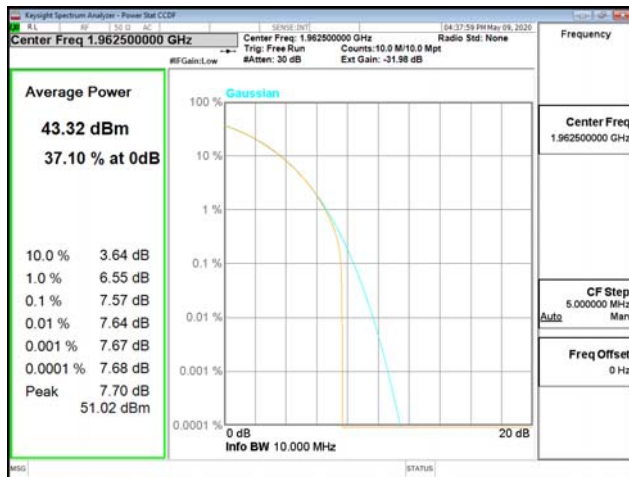
QPSK



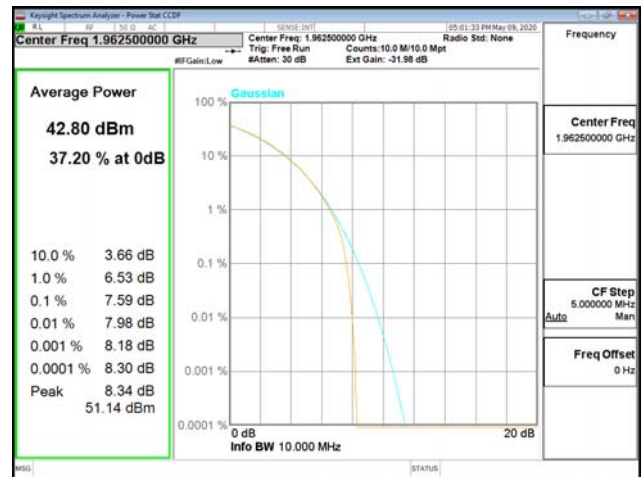
16QAM



64QAM

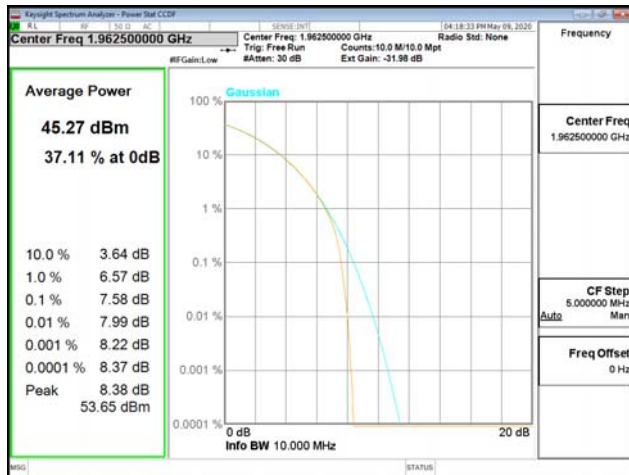


256QAM



ANT1

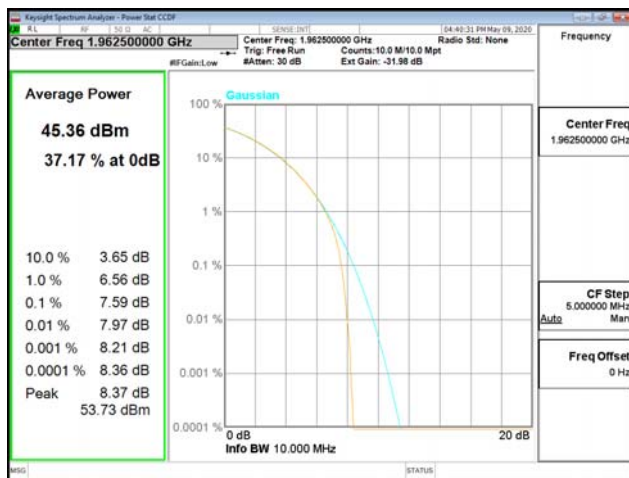
QPSK



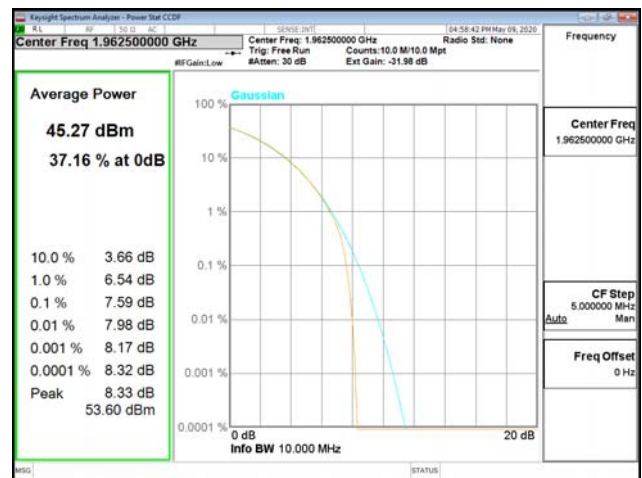
16QAM



64QAM

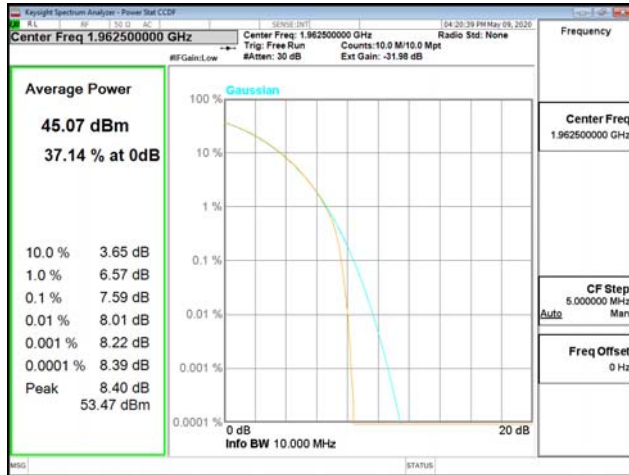


256QAM

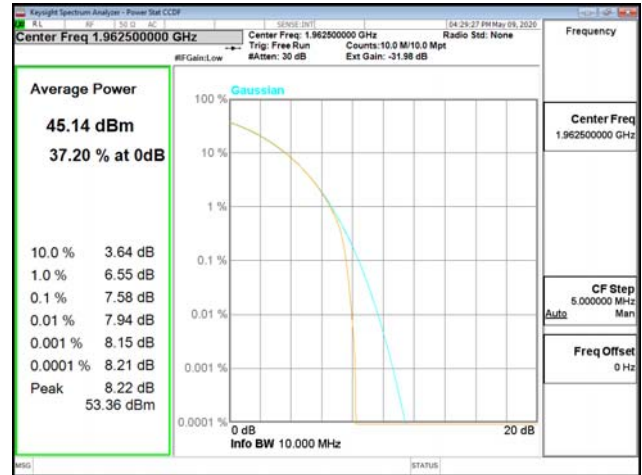


ANT2

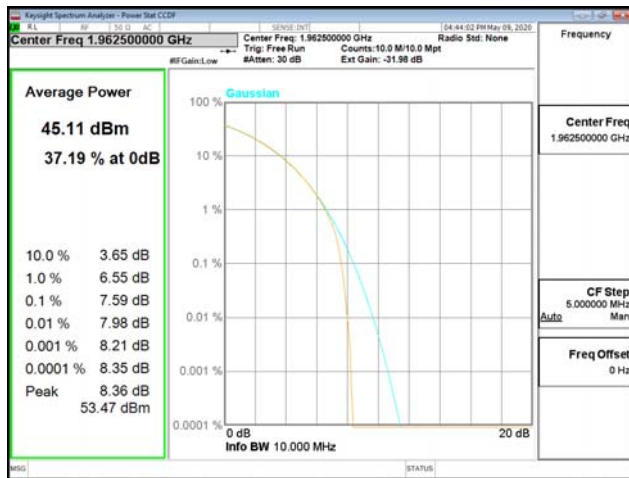
QPSK



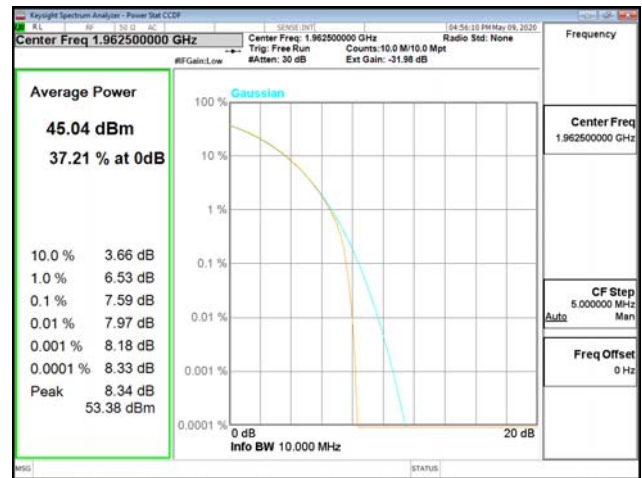
16QAM



64QAM

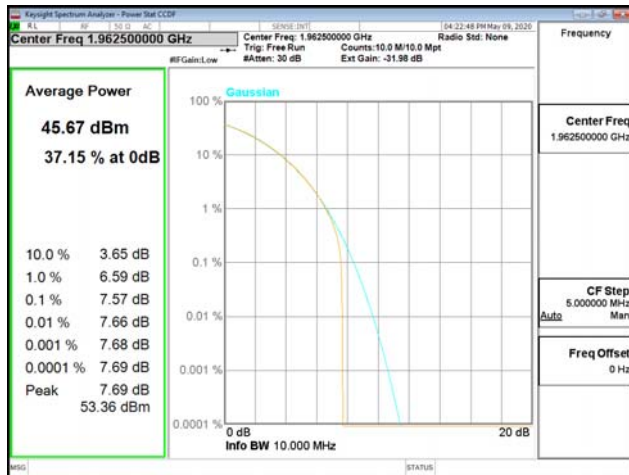


256QAM



ANT3

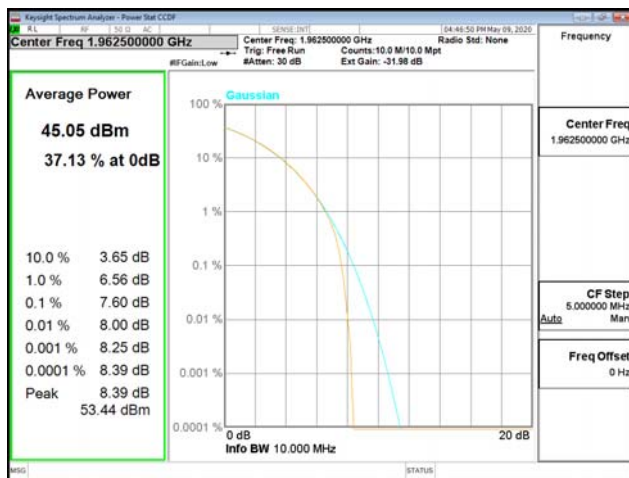
QPSK



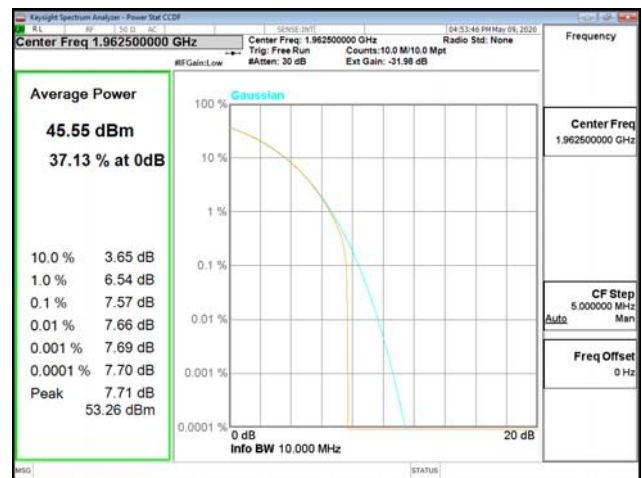
16QAM



64QAM

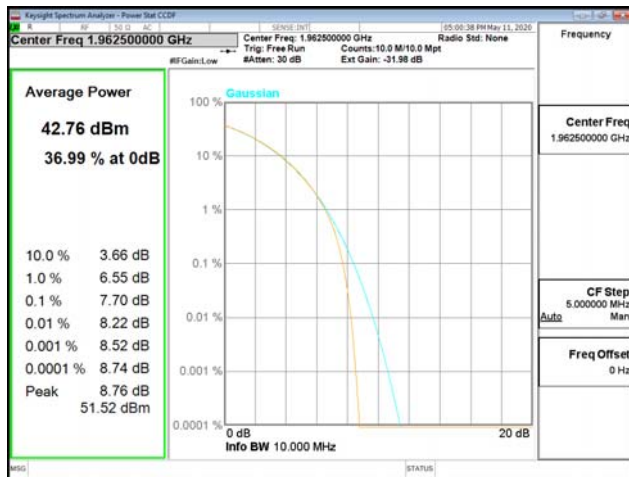


256QAM

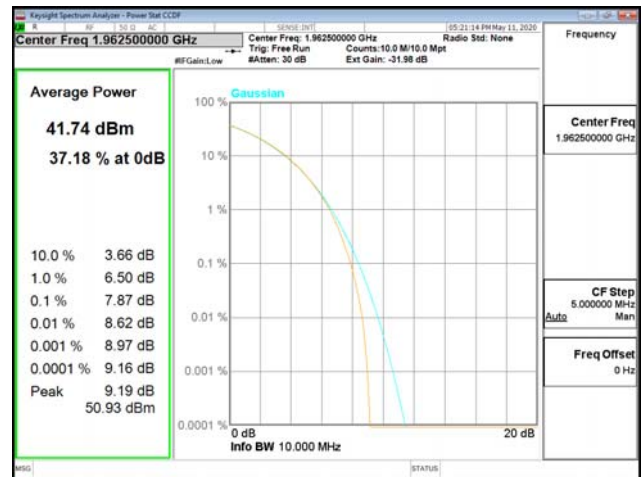


**Band 25, BW 15MHz, Single carrier, Middle
ANT0**

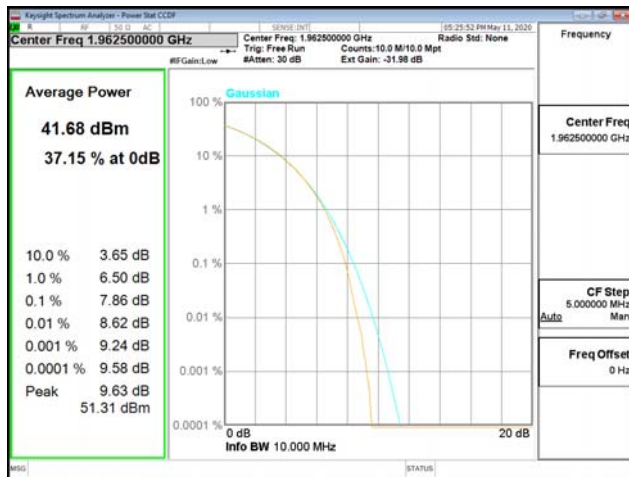
QPSK



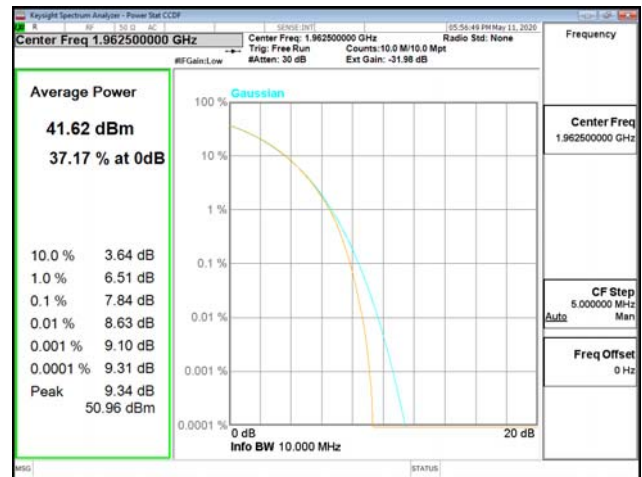
16QAM



64QAM

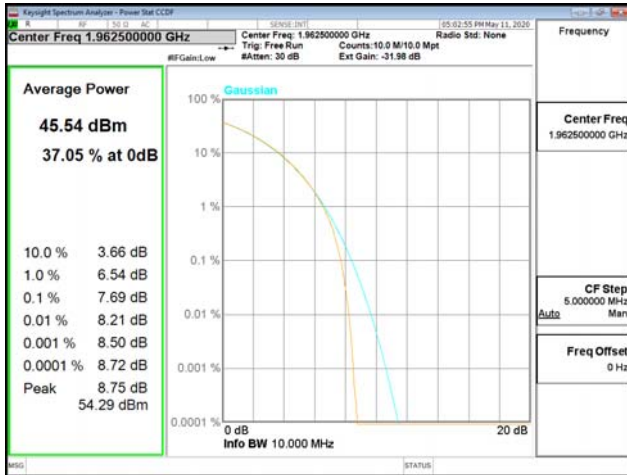


256QAM

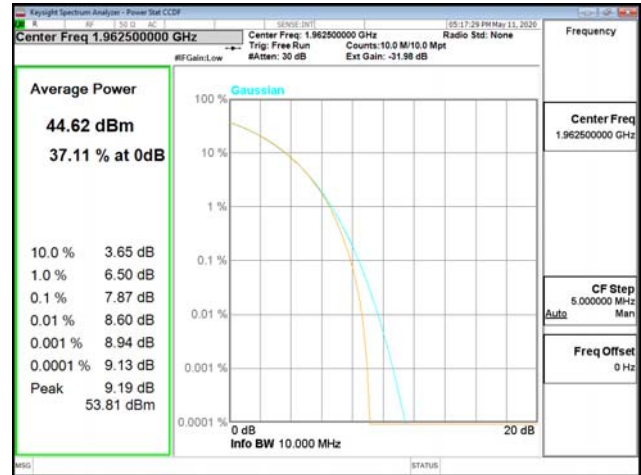


ANT1

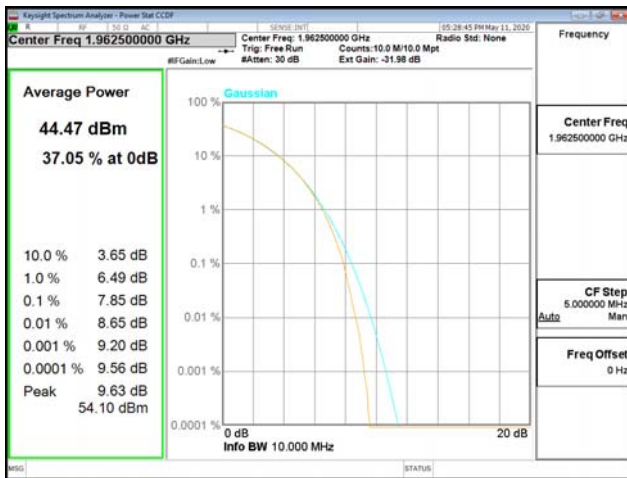
QPSK



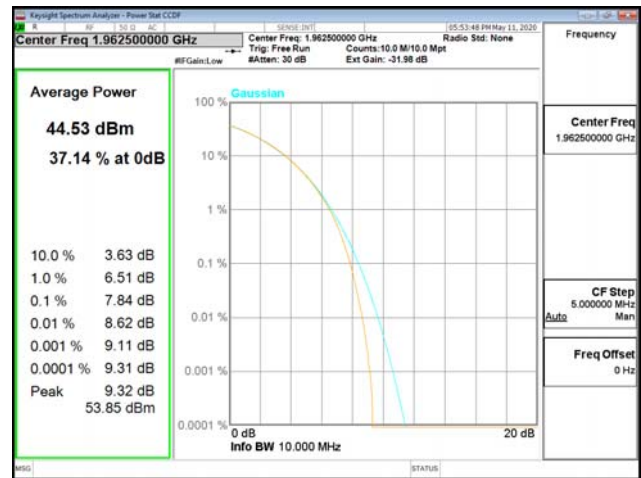
16QAM



64QAM

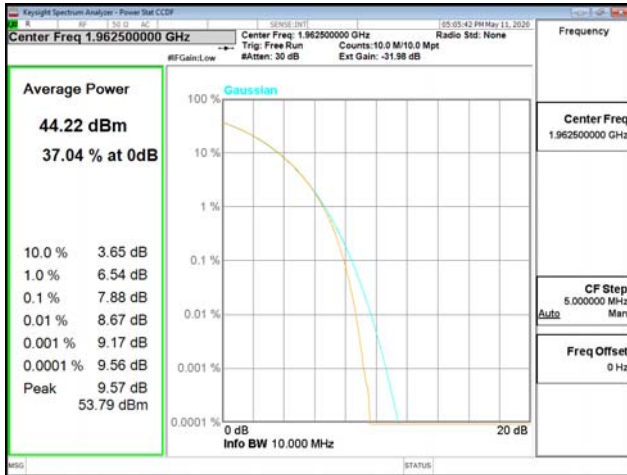


256QAM

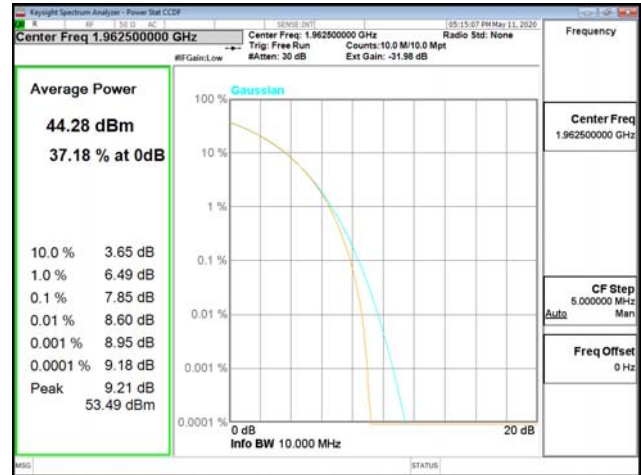


ANT2

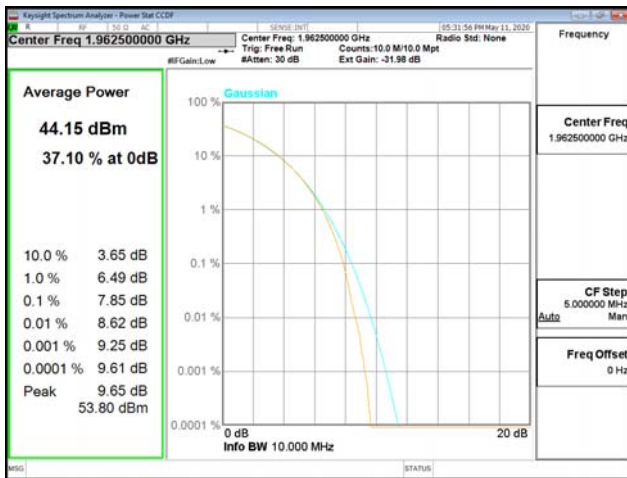
QPSK



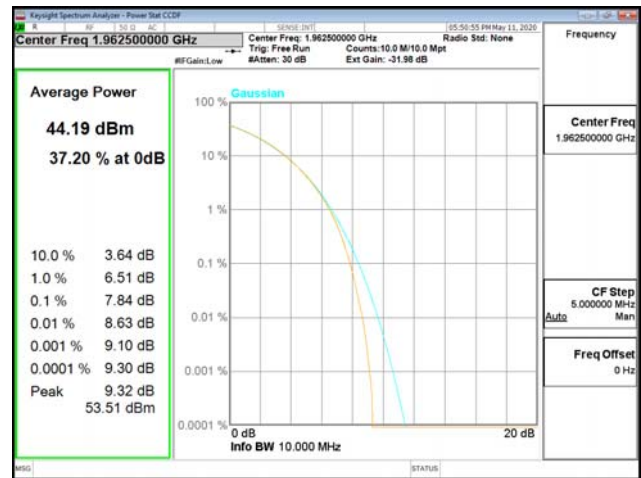
16QAM



64QAM

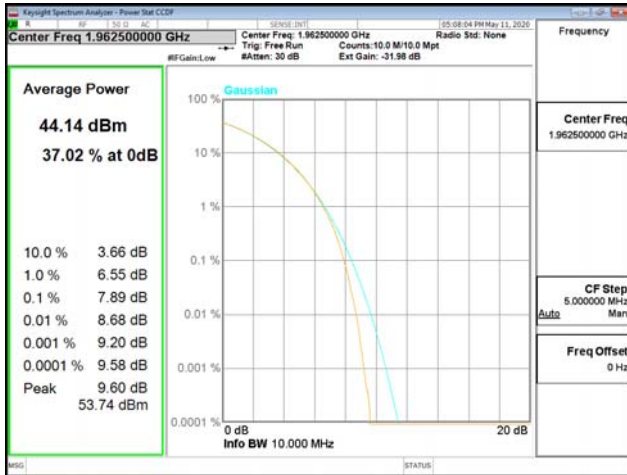


256QAM

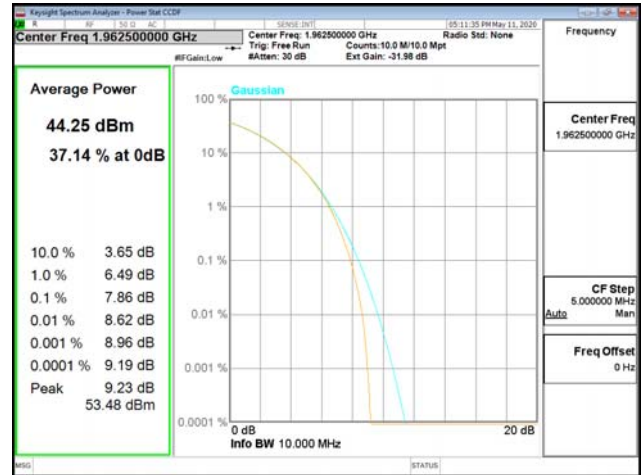


ANT3

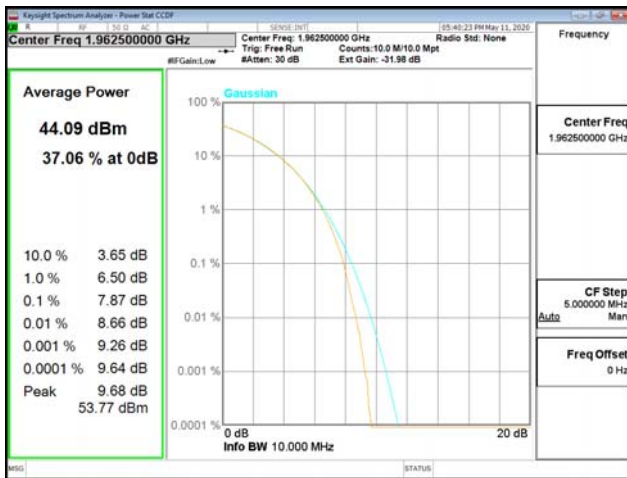
QPSK



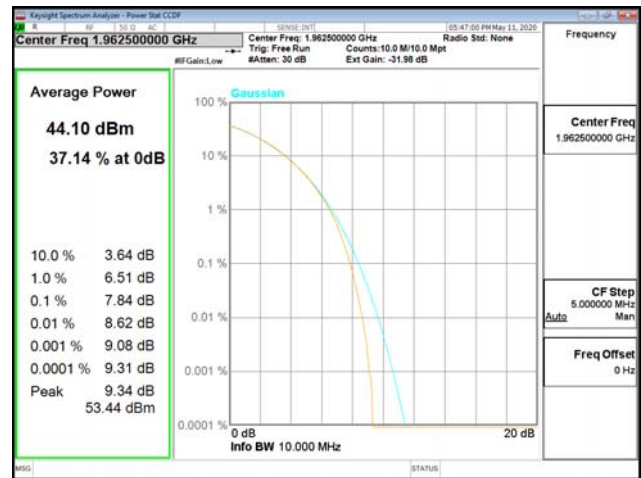
16QAM



64QAM

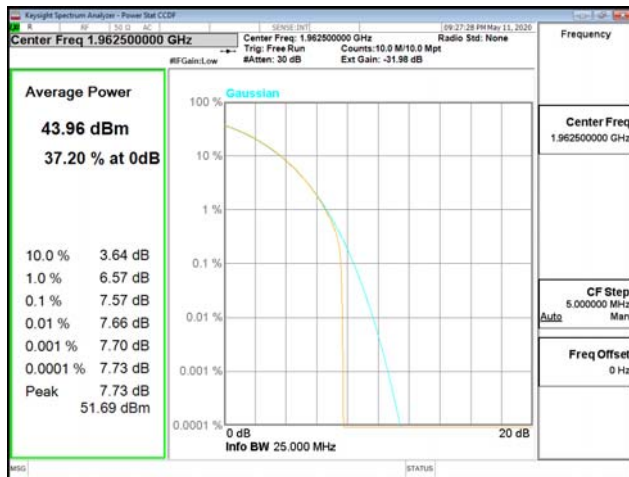


256QAM

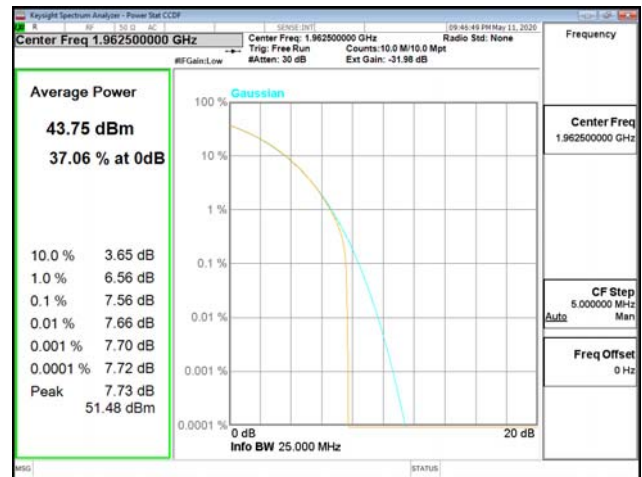


**Band 25, BW 20MHz, Single carrier, Middle
ANT0**

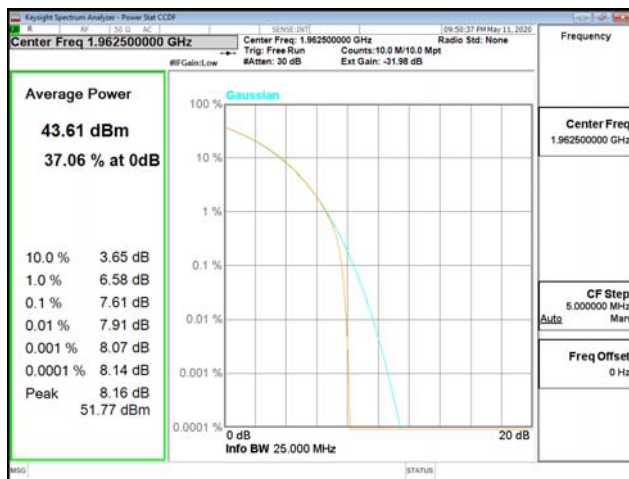
QPSK



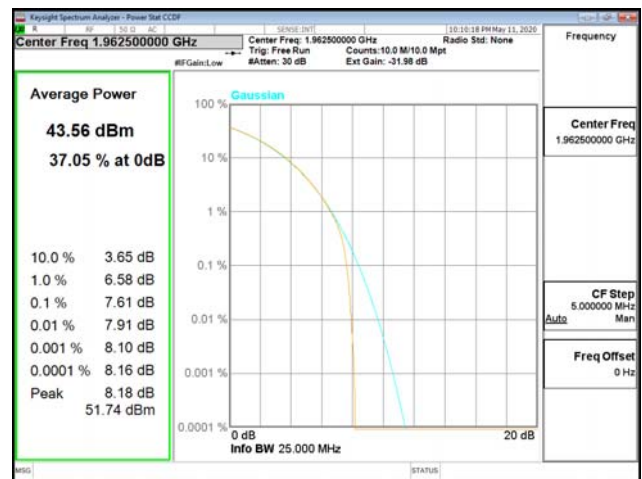
16QAM



64QAM

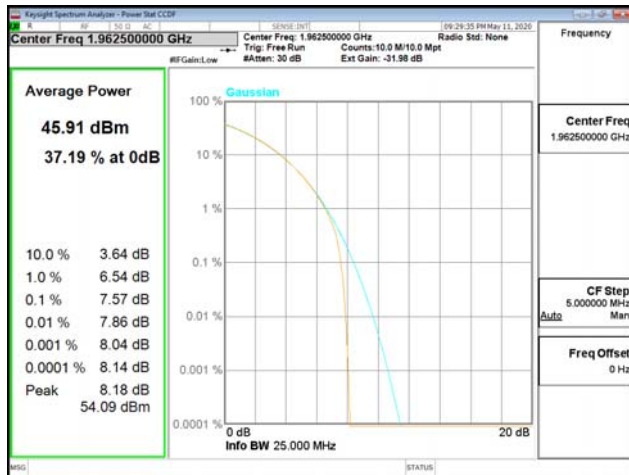


256QAM



ANT1

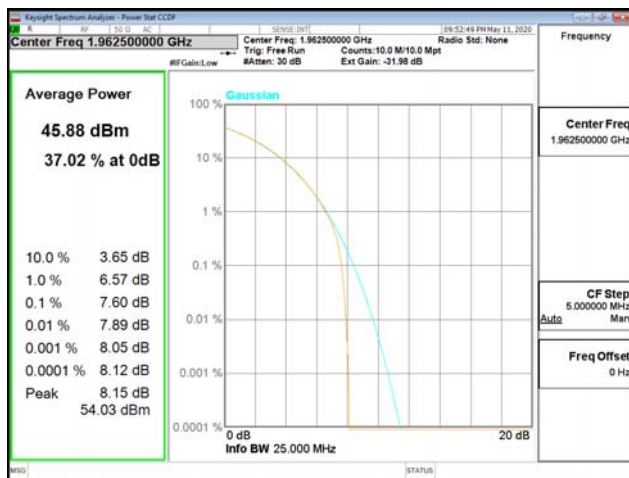
QPSK



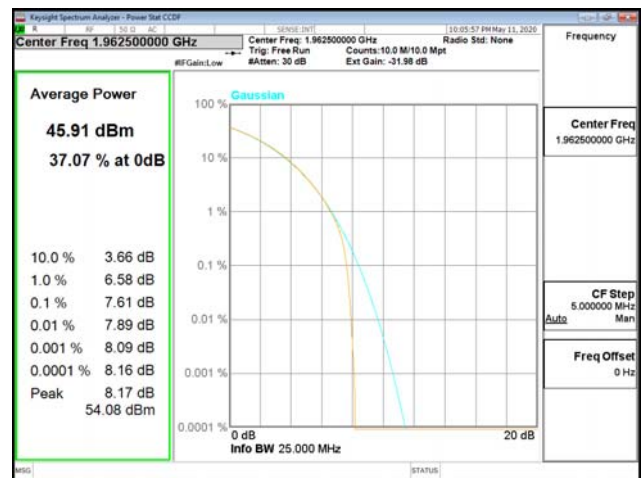
16QAM



64QAM

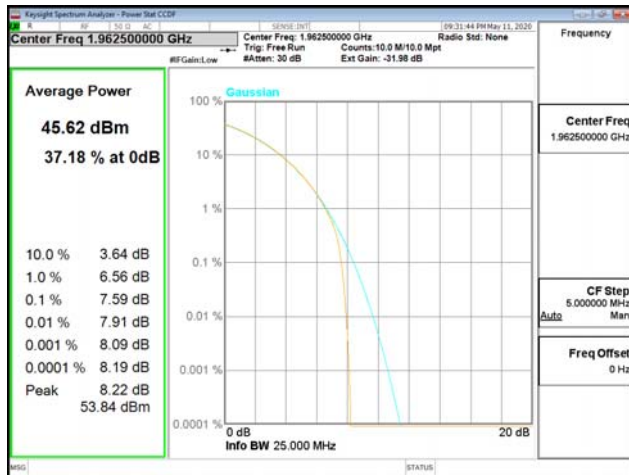


256QAM

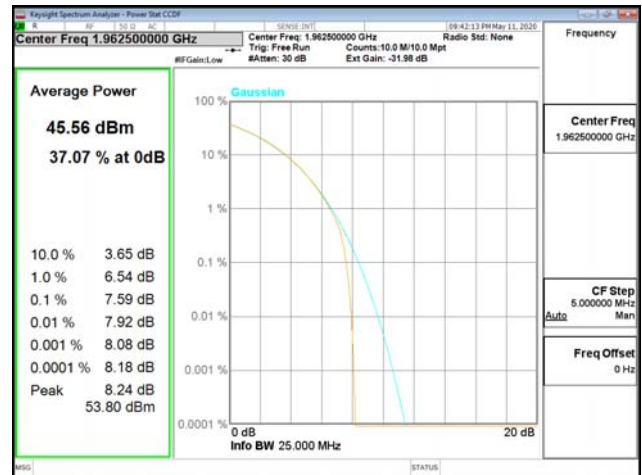


ANT2

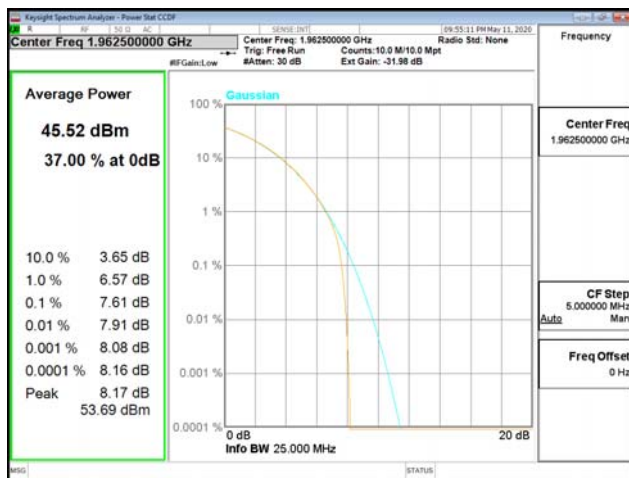
QPSK



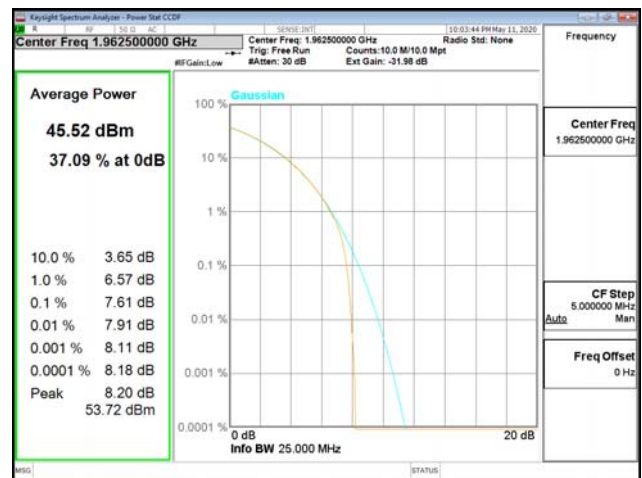
16QAM



64QAM



256QAM



ANT3

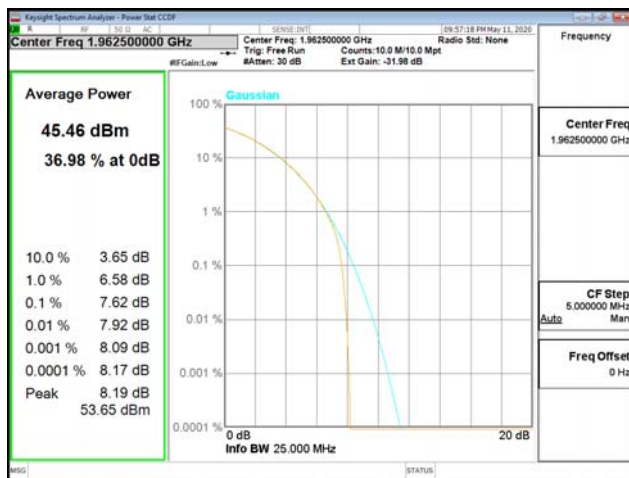
QPSK



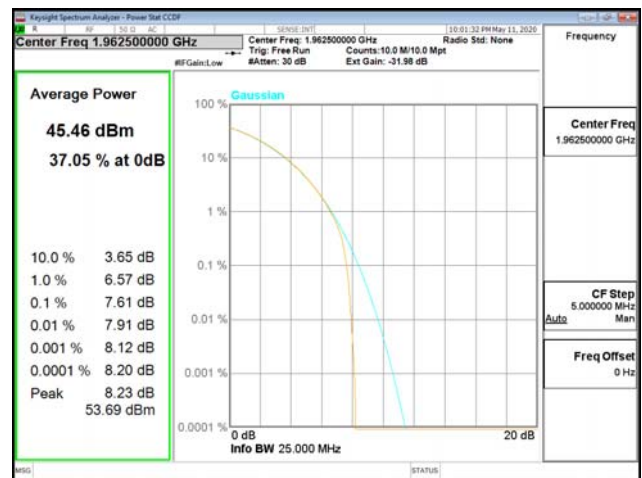
16QAM



64QAM



256QAM



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5. Occupied Bandwidth

Test Requirements :

§ 2.1049 Measurements required : Occupied bandwidth

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the specified conditions of § 2.1049(a) through (i) as applicable.

Test Procedures :

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation. The EUT was connected to a spectrum analyzer enabled with an occupied bandwidth in accordance with FCC Part 2.1049. The occupied bandwidth was measured from the fundamental emission at the bottom, middle and top channels. The occupied bandwidth was measured using the built in occupied bandwidth function of the spectrum analyzer. It was set to measure the bandwidth where 99% of the signal power was contained. The analyzer automatically configures the measurement bandwidths to make an accurate measurement based on the channel bandwidth and channel spacing of the EUT.

Test Results :

Test Data : Band 25, BW 5MHz, Single carrier

Type	Channel	Modulation	Occupied Bandwidth(MHz)			
			Test antenna port			
			0	1	2	3
Band 25 BW 5MHz	Bottom	QPSK	4.50	4.50	4.50	4.50
		16QAM	4.48	4.48	4.48	4.48
		64QAM	4.50	4.50	4.50	4.50
		256QAM	4.50	4.50	4.50	4.50
	Middle	QPSK	4.50	4.50	4.50	4.50
		16QAM	4.48	4.47	4.48	4.48
		64QAM	4.48	4.48	4.48	4.48
		256QAM	4.47	4.48	4.48	4.48
	Top	QPSK	4.50	4.50	4.50	4.50
		16QAM	4.50	4.50	4.50	4.50
		64QAM	4.50	4.50	4.50	4.50
		256QAM	4.50	4.50	4.50	4.50

Test Data : Band 25, BW 10MHz, Single carrier

Type	Channel	Modulation	Occupied Bandwidth(MHz)			
			Test antenna port			
			0	1	2	3
Band 25 BW 10MHz	Bottom	QPSK	8.97	8.98	8.98	8.97
		16QAM	8.96	8.97	8.97	8.96
		64QAM	8.97	8.97	8.97	8.97
		256QAM	8.97	8.98	8.98	8.98
	Middle	QPSK	8.98	8.98	8.98	8.98
		16QAM	8.97	8.97	8.96	8.96
		64QAM	8.97	8.98	8.98	8.97
		256QAM	8.98	8.98	8.98	8.98
	Top	QPSK	8.98	8.97	8.97	8.98
		16QAM	8.96	8.97	8.97	8.97
		64QAM	8.97	8.97	8.97	8.97
		256QAM	8.97	8.97	8.96	8.96

Test Data : Band 25, BW 15MHz, Single carrier

Type	Channel	Modulation	Occupied Bandwidth(MHz)			
			Test antenna port			
			0	1	2	3
Band 25 BW 15MHz	Bottom	QPSK	13.45	13.45	13.45	13.45
		16QAM	13.44	13.45	13.45	13.44
		64QAM	13.45	13.45	13.45	13.45
		256QAM	13.45	13.45	13.45	13.45
	Middle	QPSK	13.46	13.45	13.45	13.45
		16QAM	13.45	13.45	13.44	13.46
		64QAM	13.46	13.45	13.45	13.46
		256QAM	13.46	13.45	13.46	13.46
	Top	QPSK	13.46	13.45	13.45	13.45
		16QAM	13.46	13.45	13.45	13.45
		64QAM	13.46	13.45	13.45	13.45
		256QAM	13.46	13.45	13.45	13.45

Test Data : Band 25, BW 20MHz, Single carrier

Type	Channel	Modulation	Occupied Bandwidth(MHz)			
			Test antenna port			
			0	1	2	3
Band 25 BW 20MHz	Bottom	QPSK	17.92	17.92	17.93	17.92
		16QAM	17.89	17.90	17.91	17.89
		64QAM	17.92	17.93	17.93	17.92
		256QAM	17.92	17.92	17.93	17.91
	Middle	QPSK	17.93	17.93	17.93	17.93
		16QAM	17.91	17.89	17.89	17.90
		64QAM	17.93	17.93	17.93	17.93
		256QAM	17.93	17.92	17.93	17.93
	Top	QPSK	17.93	17.92	17.92	17.93
		16QAM	17.93	17.92	17.92	17.93
		64QAM	17.93	17.92	17.92	17.93
		256QAM	17.93	17.92	17.92	17.93

Test Data : Band 25, BW 5+20MHz, Multi 2carrier

Type	Channel	Modulation	Occupied Bandwidth(MHz)			
			Test antenna port			
			0	1	2	3
Band 25 BW 5+20MHz	Bottom	QPSK	23.66	23.66	23.67	23.66
		16QAM	23.58	23.59	23.60	23.60
		64QAM	23.66	23.66	23.67	23.67
		256QAM	23.66	23.66	23.67	23.67
	Middle	QPSK	23.67	23.67	23.67	23.67
		16QAM	23.60	23.60	23.60	23.60
		64QAM	23.67	23.67	23.67	23.68
		256QAM	23.67	23.67	23.67	23.68
	Top	QPSK	23.66	23.65	23.65	23.65
		16QAM	23.58	23.58	23.56	23.58
		64QAM	23.66	23.65	23.65	23.66
		256QAM	23.66	23.65	23.65	23.65

Test Data : Band 25, BW 5+5+10MHz, Multi 3carrier

Type	Channel	Modulation	Occupied Bandwidth(MHz)			
			Test antenna port			
			0	1	2	3
Band 25 BW 5+5+10MHz	Bottom	QPSK	19.18	19.18	19.18	19.18
		16QAM	19.15	19.15	19.14	19.14
		64QAM	19.17	19.18	19.18	19.18
		256QAM	19.18	19.18	19.18	19.18
	Middle	QPSK	19.19	19.18	19.18	19.18
		16QAM	19.16	19.15	19.16	19.17
		64QAM	19.18	19.18	19.18	19.18
		256QAM	19.19	19.18	19.18	19.18
	Top	QPSK	19.18	19.17	19.17	19.17
		16QAM	19.14	19.13	19.14	19.18
		64QAM	19.18	19.17	19.17	19.18
		256QAM	19.18	19.17	19.17	19.18