

TEST RESULTS (Cont):						
BANDWIDTH (MHz)	CHANNEL FREQUENCY (MHz)	MODULATION	RB SIZE	RB OFFSET	AVERAGE POWER (dBm)	PAPR (dB)
10	Lowest (132022 (1715 MHz))	QPSK	1	0	23.06	4.58
			1	24	22.98	
			1	49	22.96	
			25	0	22.08	
			25	24	22.1	
			50	0	22.07	
		16-QAM	1	0	22.27	5.42
			1	24	22.21	
			1	49	22.13	
			25	0	21.13	
			25	24	21.1	
			50	0	21.07	
	Middle (132422 (1755 MHz))	QPSK	1	0	22.93	4.84
			1	24	22.88	
			1	49	22.88	
			25	0	21.97	
			25	24	21.94	
			50	0	21.95	
		16-QAM	1	0	22.17	5.71
			1	24	22.13	
			1	49	22.17	
			25	0	21.02	
			25	24	21.02	
			50	0	20.94	
	Highest (132622 (1775 MHz))	QPSK	1	0	23.02	4.52
			1	24	22.97	
			1	49	22.98	
			25	0	22.02	
			25	24	22.05	
			50	0	22.03	
		16-QAM	1	0	22.2	5.51
			1	24	22.16	
			1	49	22.16	
			25	0	21.13	
			25	24	21.16	
			50	0	21.03	

TEST RESULTS (Cont):

BANDWIDTH (MHz)	CHANNEL FREQUENCY (MHz)	MODULATION	RB SIZE	RB OFFSET	AVERAGE POWER (dBm)	PAPR (dB)
15	Lowest (132047 (1717.5 MHz))	QPSK	1	0	23.14	4.49
			1	37	23	
			1	74	22.94	
			36	0	22.11	
			36	37	21.97	
			75	0	22.09	
		16-QAM	1	0	22.39	5.42
			1	37	22.23	
			1	74	22.17	
			36	0	21.16	
			36	37	21.03	
			75	0	21.09	
	Middle (132422 (1755 MHz))	QPSK	1	0	23.03	4.81
			1	37	22.89	
			1	74	22.93	
			36	0	22	
			36	37	21.95	
			75	0	21.97	
		16-QAM	1	0	22.26	5.62
			1	37	22.11	
			1	74	22.2	
			36	0	21.02	
			36	37	21.01	
			75	0	21.02	
	Highest (132597 (1772.5 MHz))	QPSK	1	0	23.08	4.58
			1	37	23	
			1	74	23.04	
			36	0	22.07	
			36	37	22.07	
			75	0	22.05	
		16-QAM	1	0	22.09	5.54
			1	37	21.95	
			1	74	21.98	
			36	0	21.06	
			36	37	21.1	
			75	0	21.05	

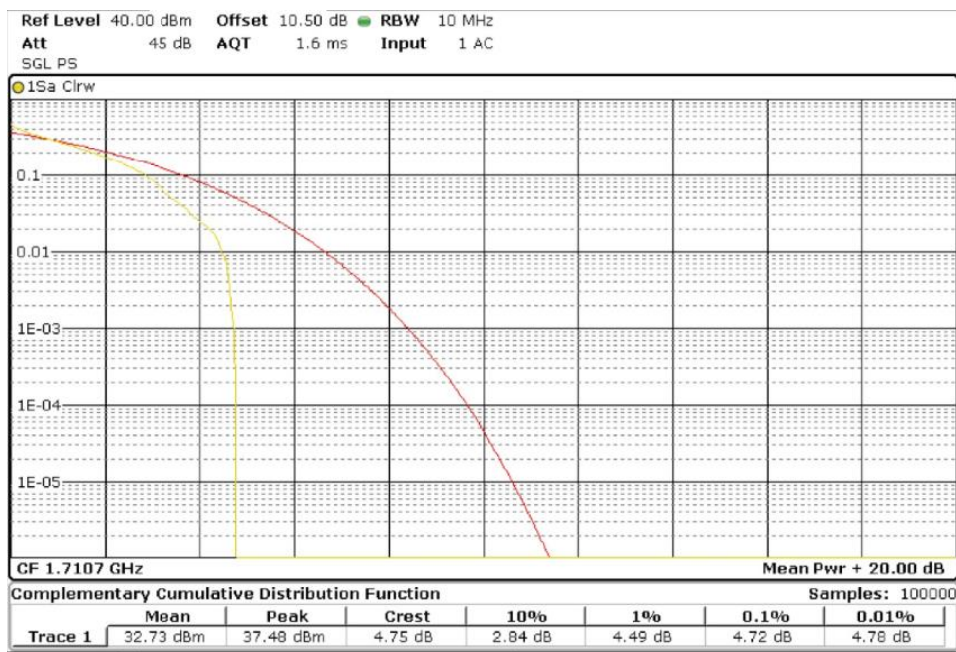
TEST RESULTS (Cont):						
BANDWIDTH (MHz)	CHANNEL FREQUENCY (MHz)	MODULATION	RB SIZE	RB OFFSET	AVERAGE POWER (dBm)	PAPR (dB)
20	Lowest (132072 (1720 MHz))	QPSK	1	0	23.16	4.49
			1	49	22.94	
			1	99	23.03	
			50	0	22.13	
			50	49	21.98	
			100	0	22	
	16-QAM	16-QAM	1	0	22.24	5.22
			1	49	22.01	
			1	99	22.11	
			50	0	21.18	
			50	49	21.03	
			100	0	21.03	
	Middle (132422 (1755 MHz))	QPSK	1	0	23.08	4.75
			1	49	22.99	
			1	99	23.06	
			50	0	22.03	
			50	49	21.96	
			100	0	22.02	
	16-QAM	16-QAM	1	0	22.39	5.51
			1	49	22.31	
			1	99	22.38	
			50	0	20.98	
			50	49	20.96	
			100	0	21	
	Highest (132572 (1770 MHz))	QPSK	1	0	23.05	4.52
			1	49	22.93	
			1	99	22.97	
			50	0	22.07	
			50	49	22.07	
			100	0	22.11	
	16-QAM	16-QAM	1	0	22.59	5.33
			1	49	22.48	
			1	99	22.59	
			50	0	21.01	
			50	49	21.02	
			100	0	21.11	

TEST RESULTS (Cont):

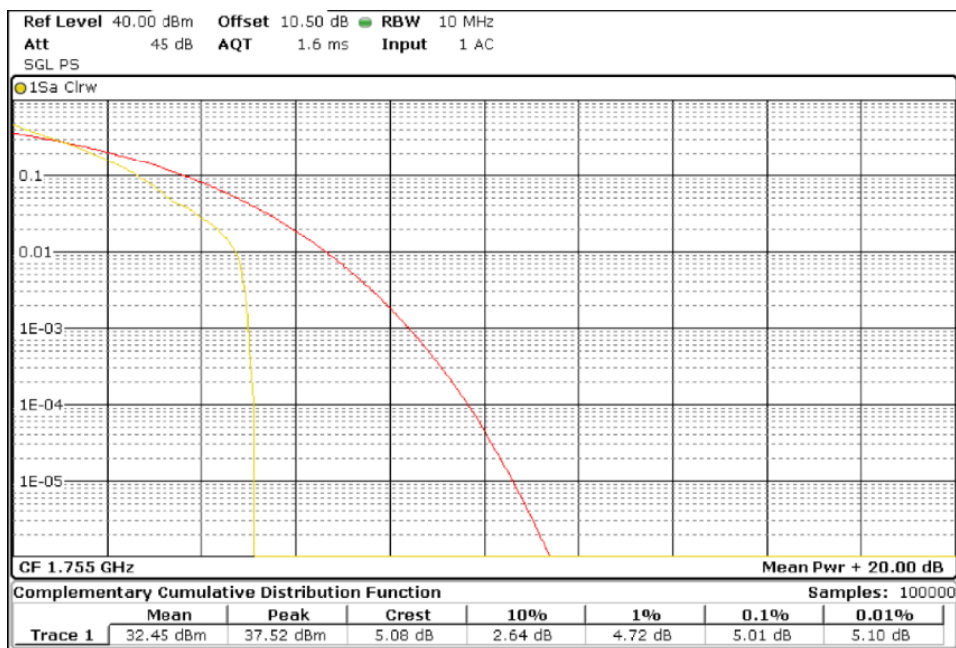
PAPR

Bandwidth = 1.4 MHz. Modulation QPSK. RB Size: 1. RB Offset: 0.

Lowest channel

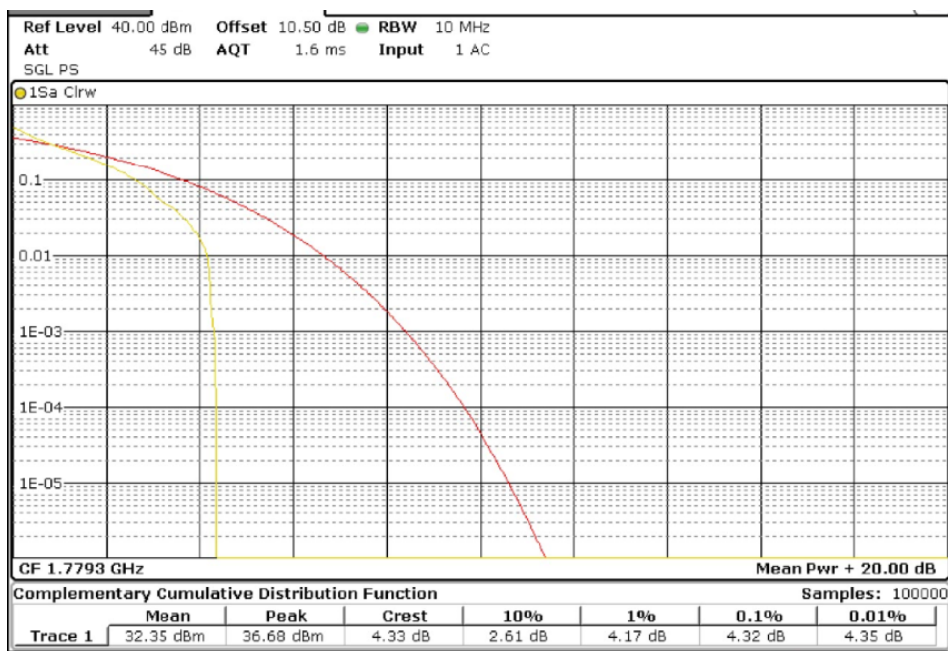


Middle channel



TEST RESULTS (Cont):

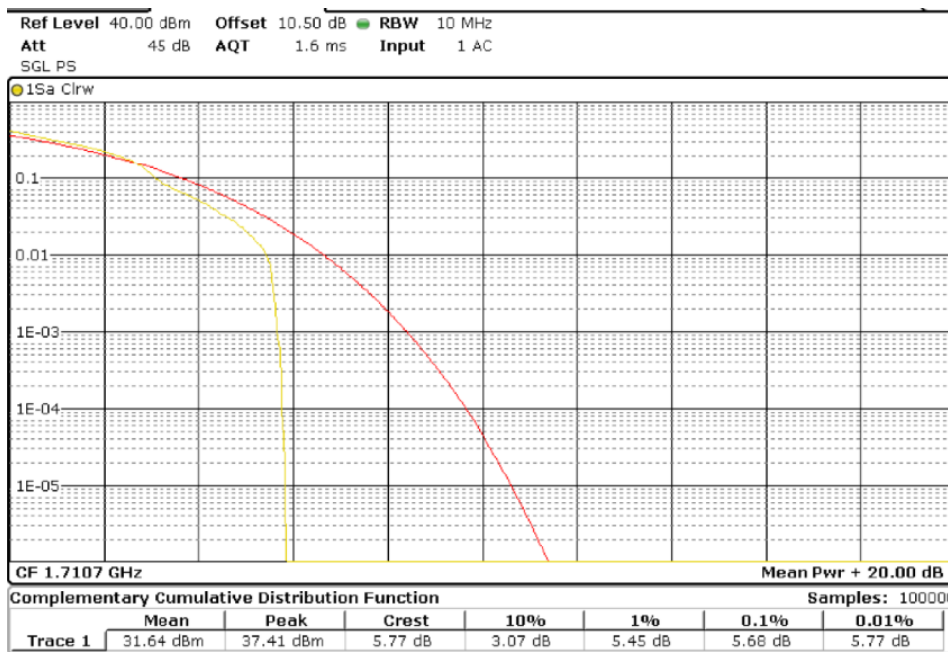
Highest channel



PAPR

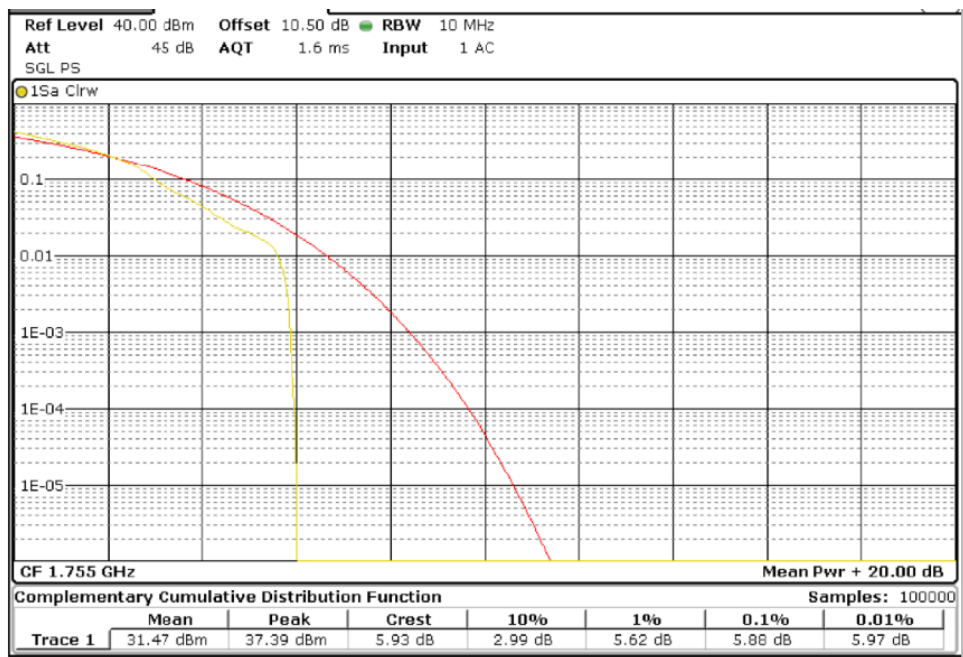
Bandwidth = 1.4 MHz. Modulation 16QAM. RB Size: 1. RB Offset: 0.

Lowest channel

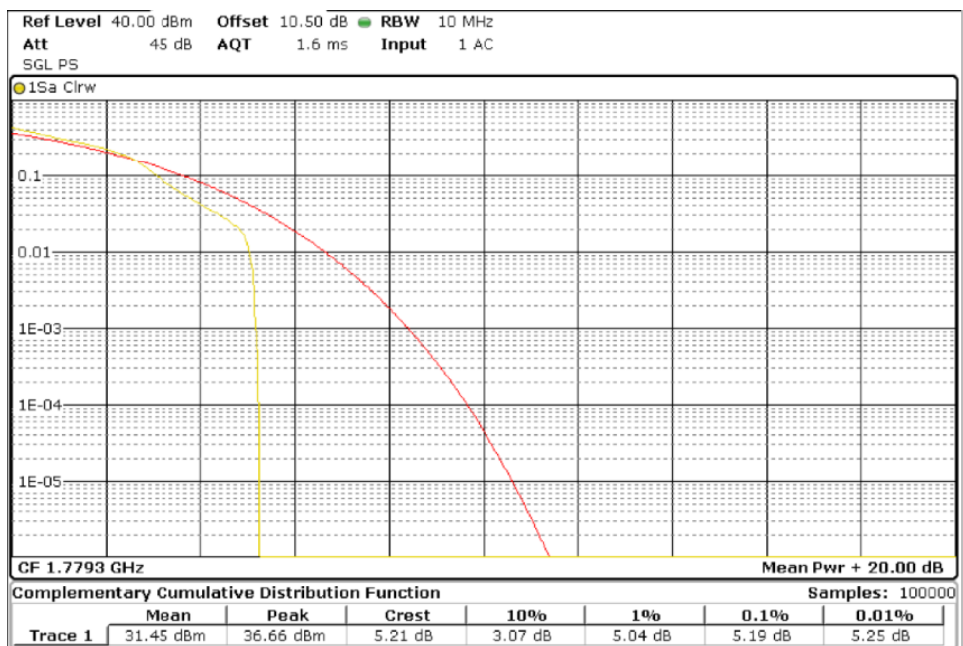


TEST RESULTS (Cont):

Middle channel



Highest channel

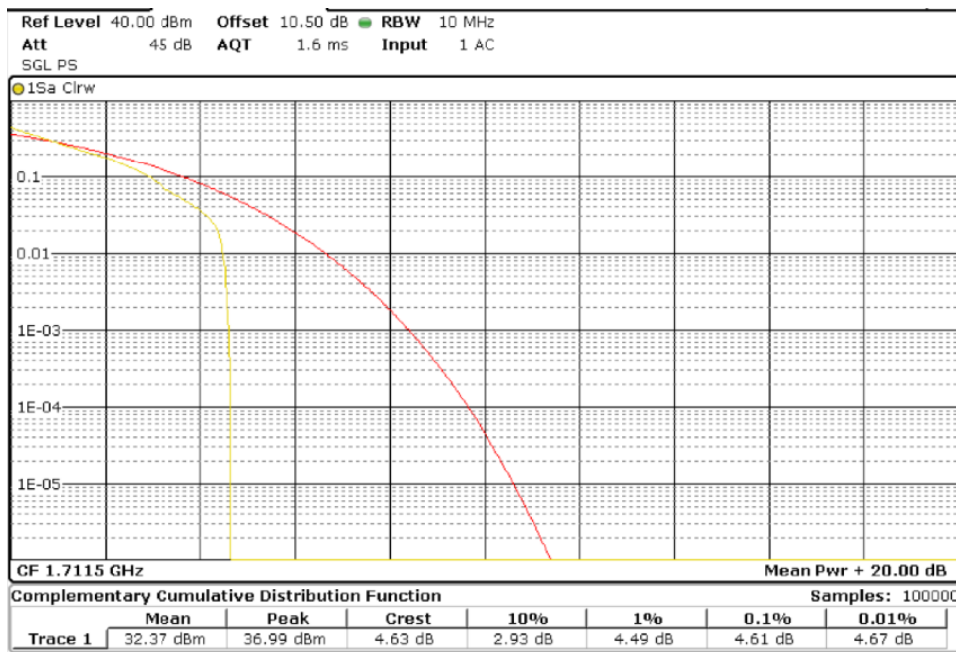


TEST RESULTS (Cont):

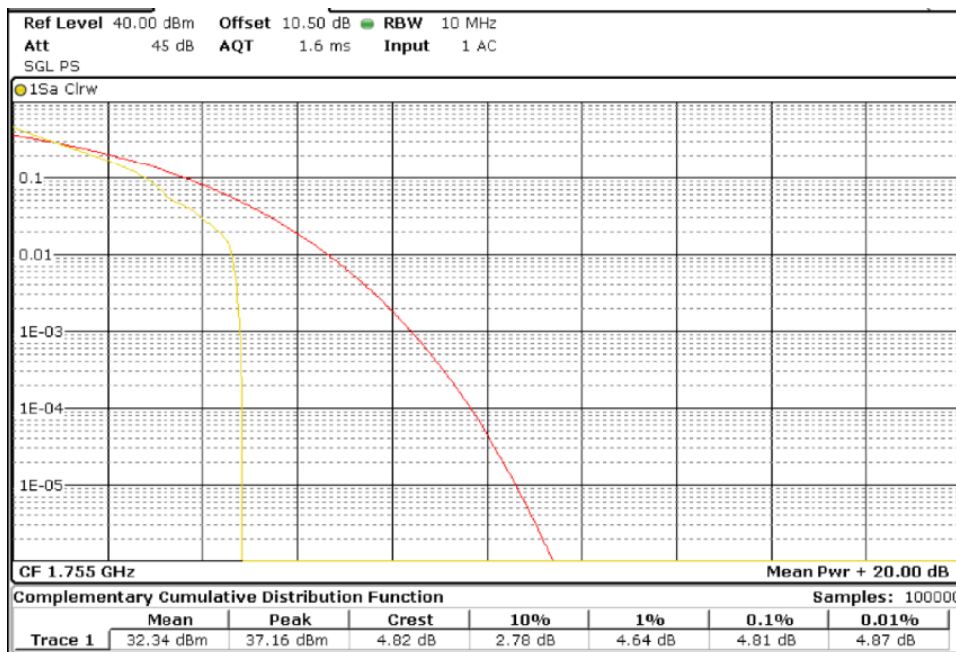
PAPR

Bandwidth = 3 MHz. Modulation QPSK. RB Size: 1. RB Offset: 0.

Lowest channel

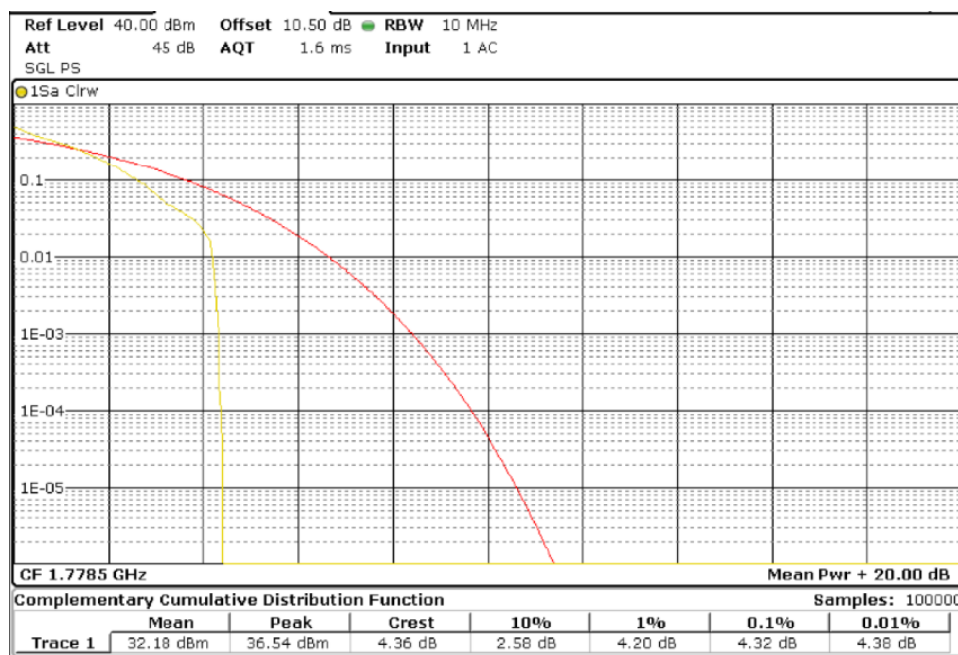


Middle channel



TEST RESULTS (Cont):

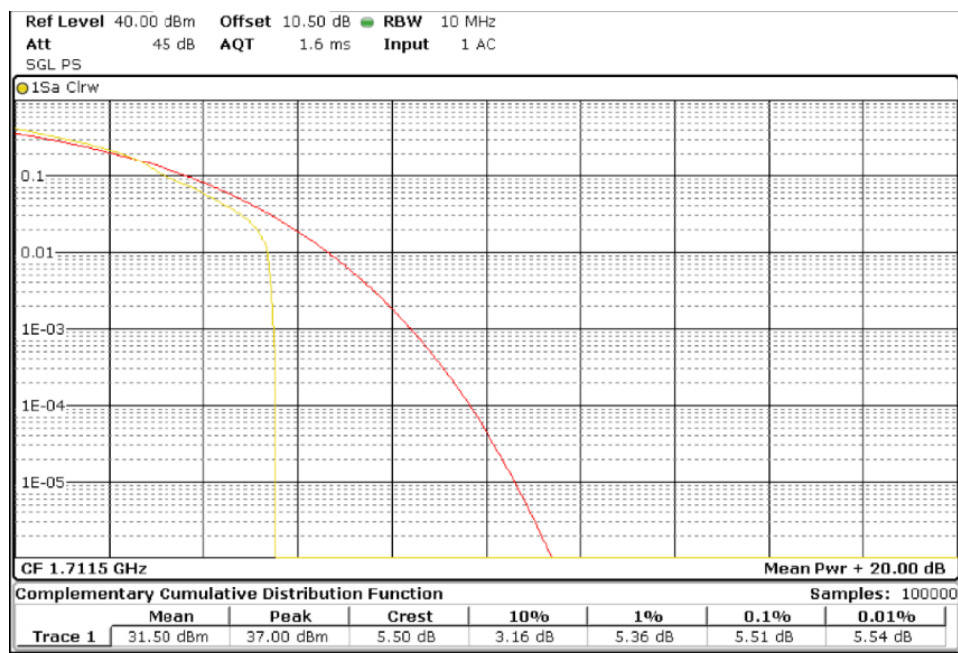
Highest channel



PAPR

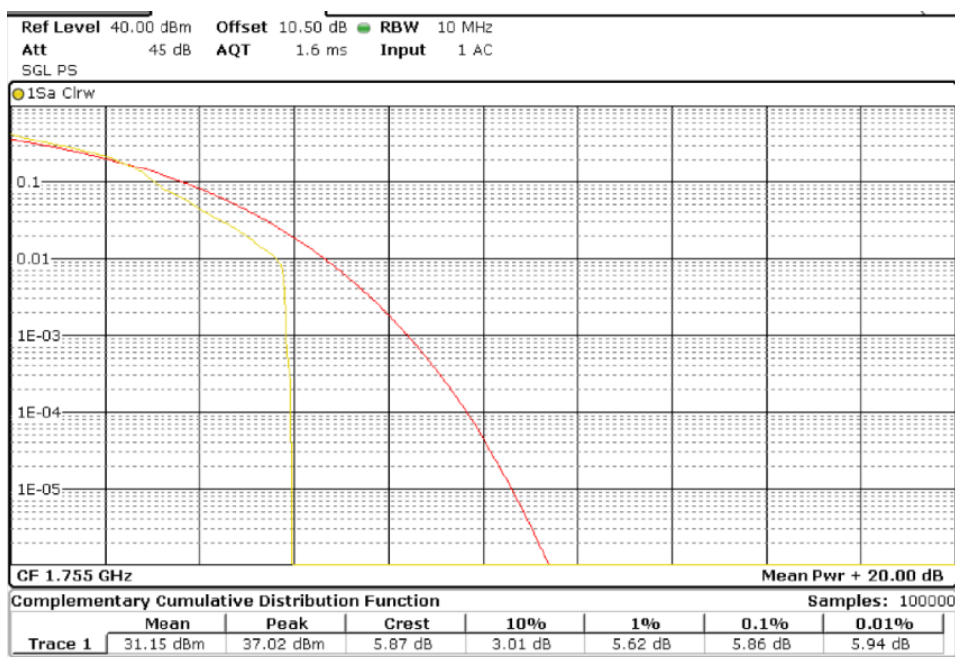
Bandwidth = 3 MHz. Modulation 16QAM. RB Size: 1. RB Offset: 0.

Lowest channel

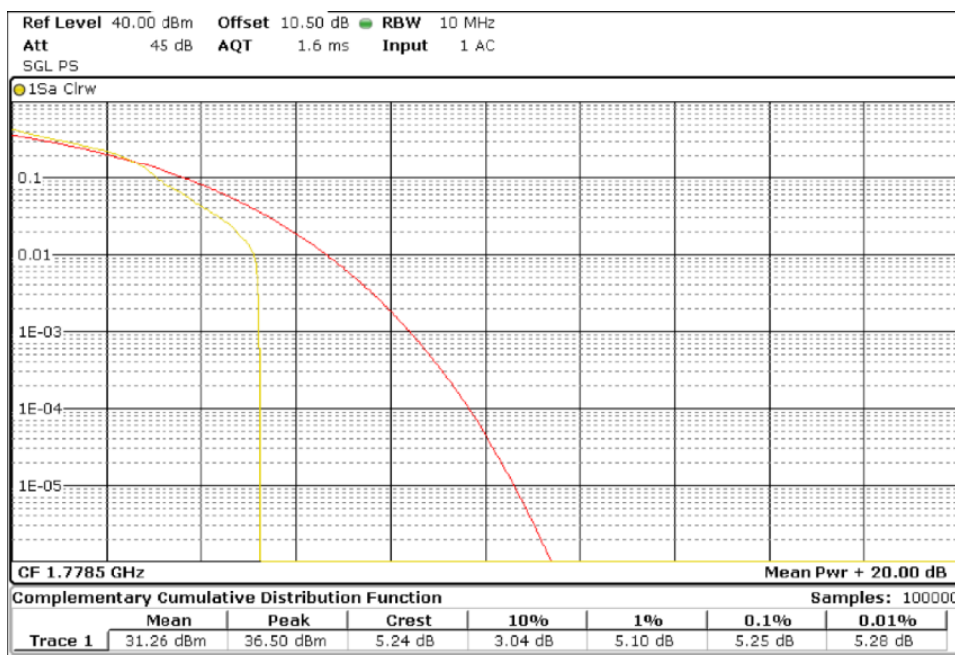


TEST RESULTS (Cont):

Middle channel



Highest channel

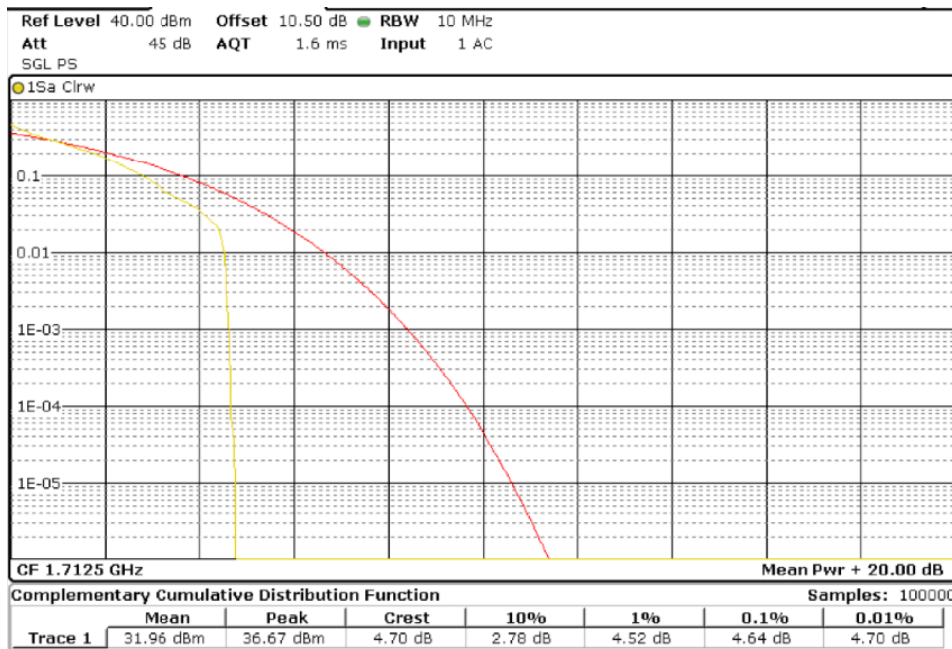


TEST RESULTS (Cont):

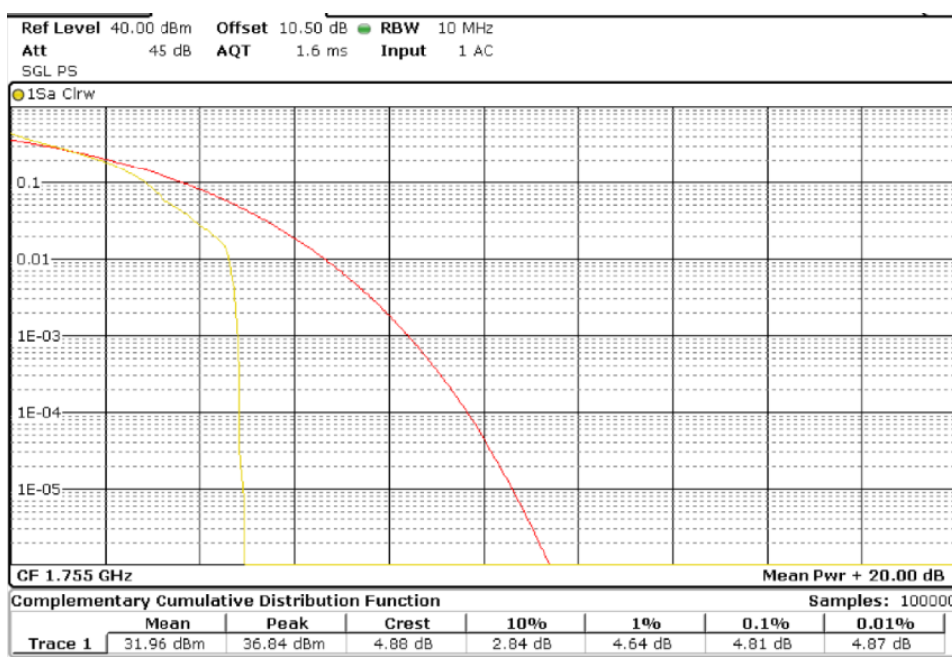
PAPR

Bandwidth = 5 MHz. Modulation QPSK. RB Size: 1. RB Offset: 0.

Lowest channel

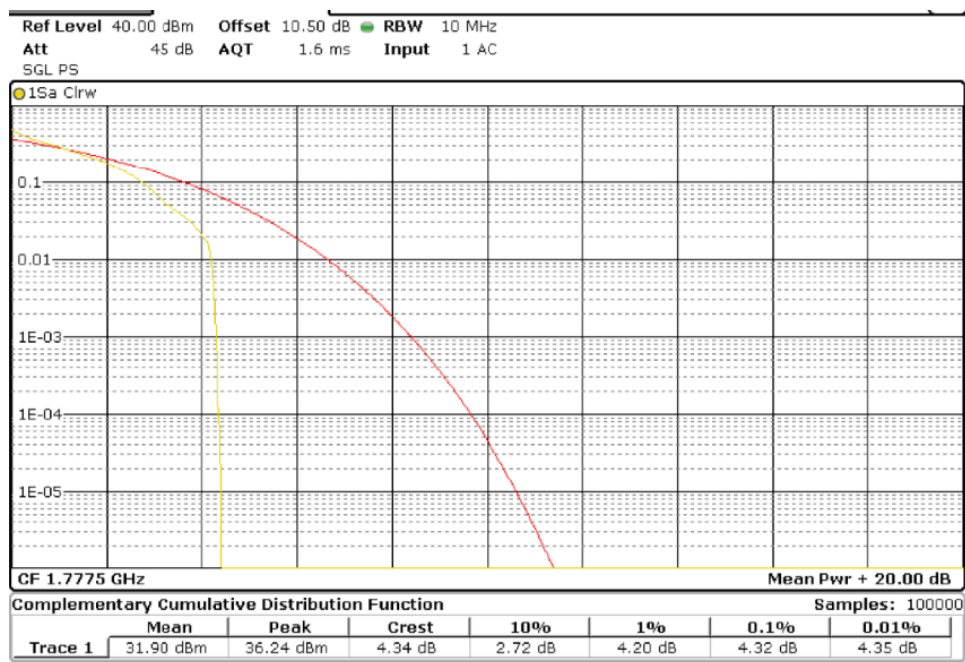


Middle channel



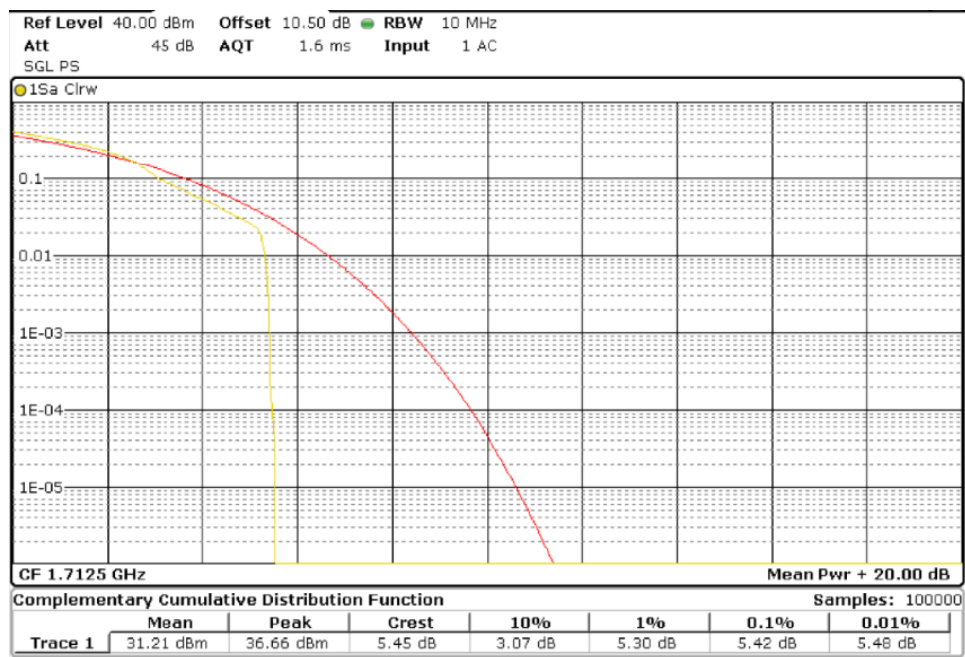
TEST RESULTS (Cont):

Highest channel



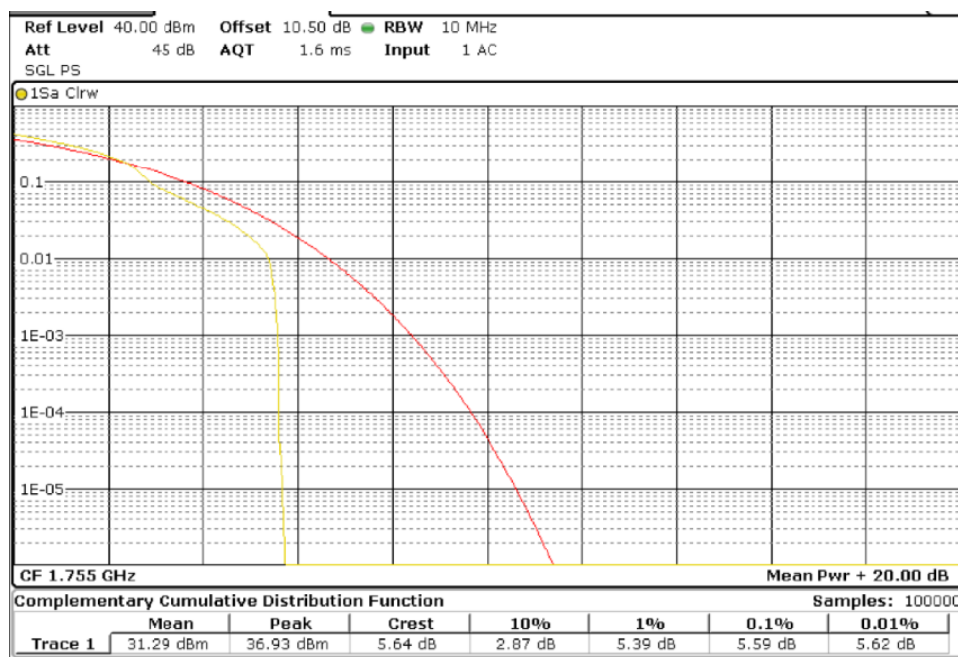
Bandwidth = 5 MHz. Modulation 16QAM. RB Size: 1. RB Offset: 0.

Lowest channel

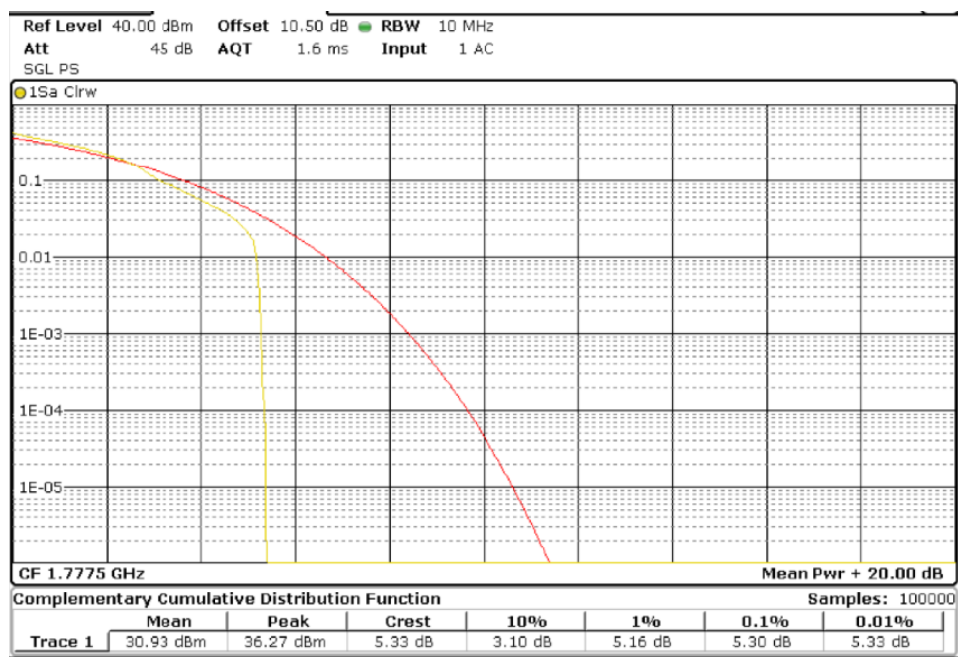


TEST RESULTS (Cont):

Middle channel

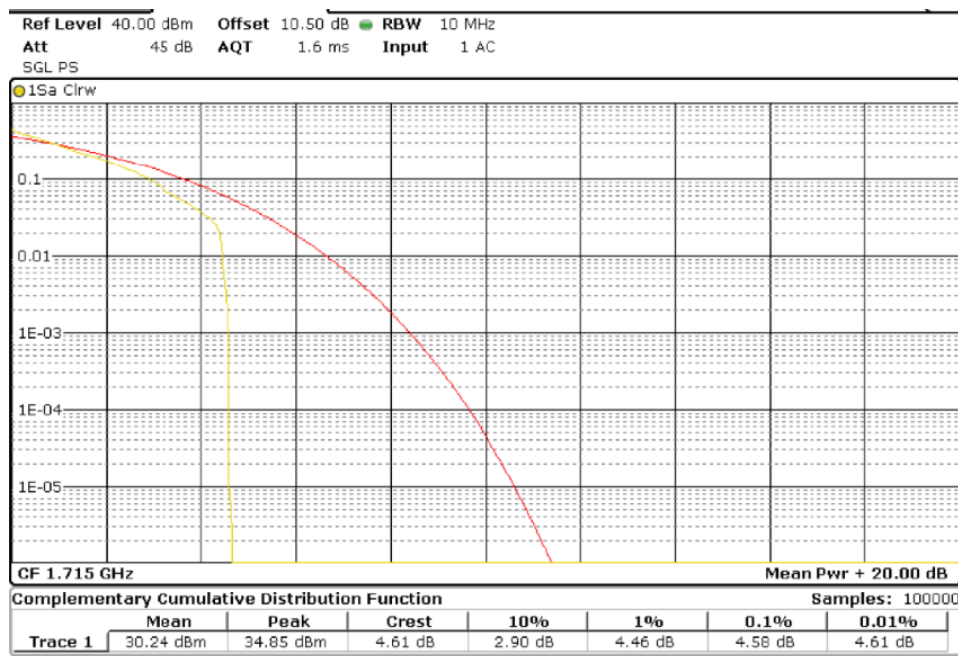


Highest channel

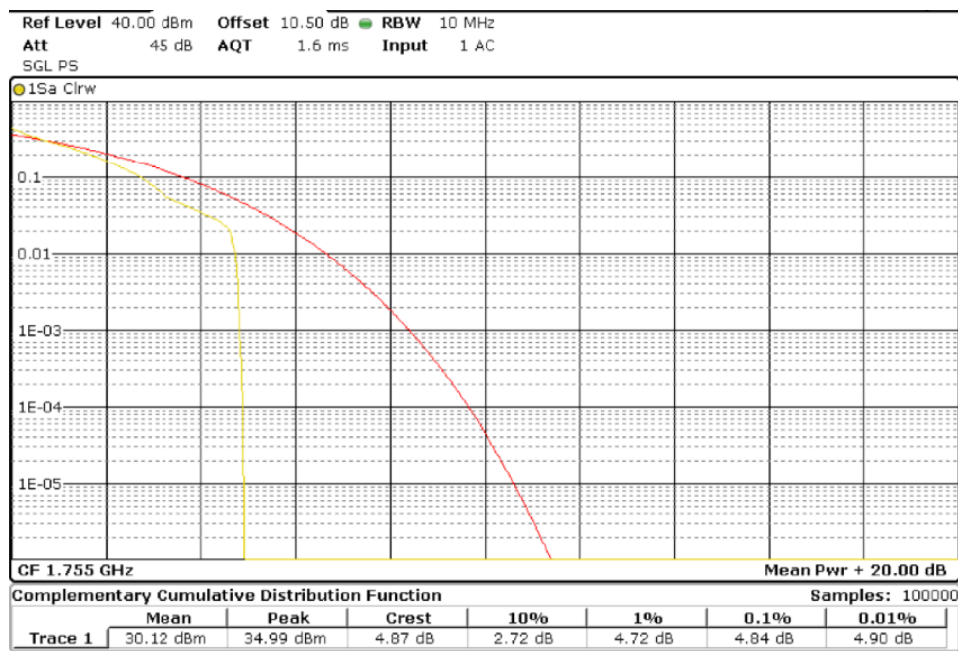


TEST RESULTS (Cont):

Bandwidth = 10 MHz. Modulation QPSK. RB Size: 1. RB Offset: 0.
Lowest channel

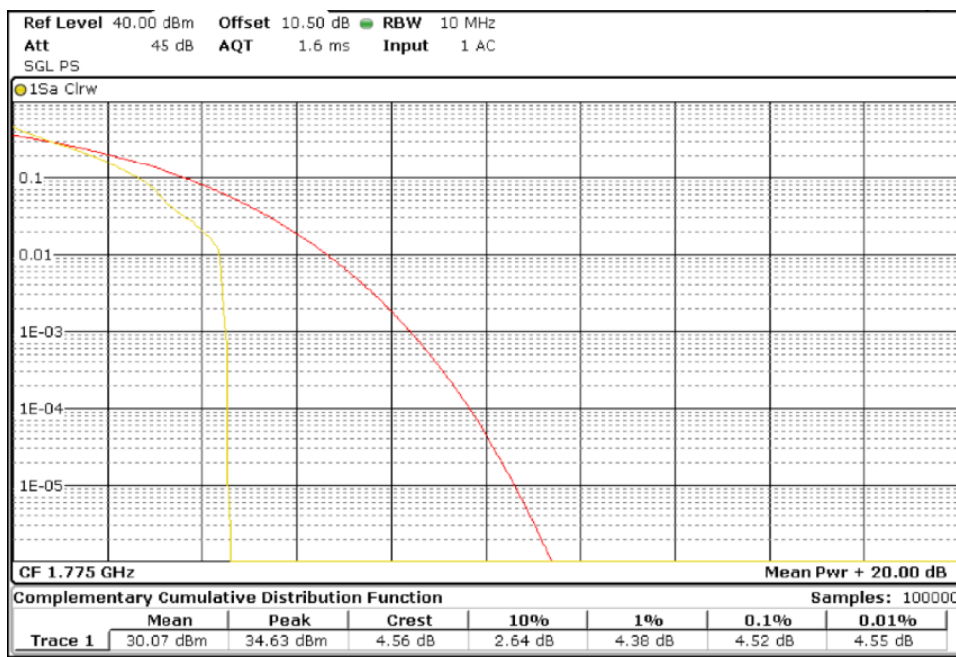


Middle channel

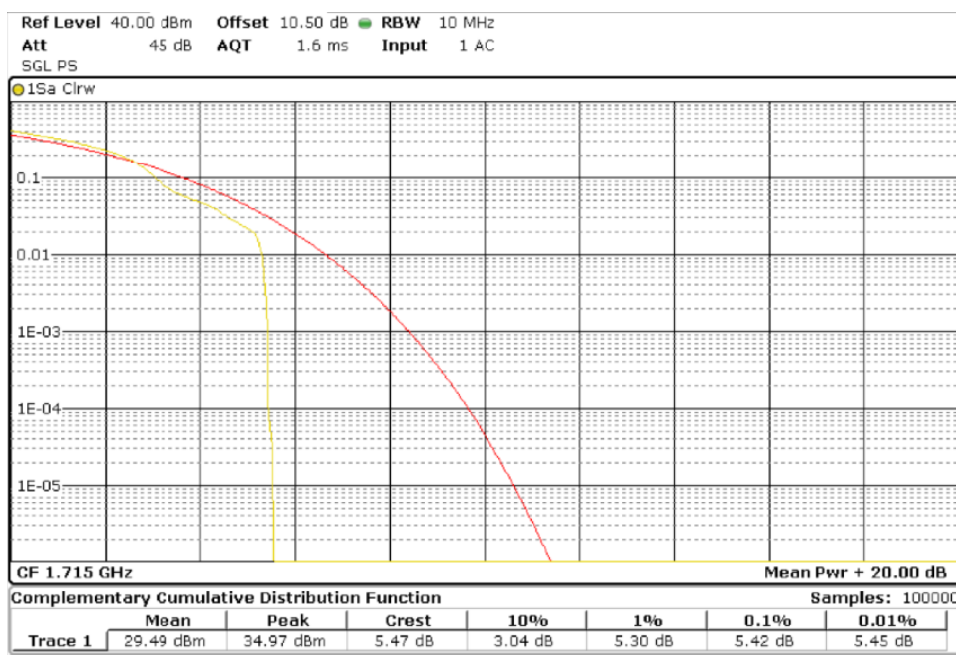


TEST RESULTS (Cont):

Highest channel

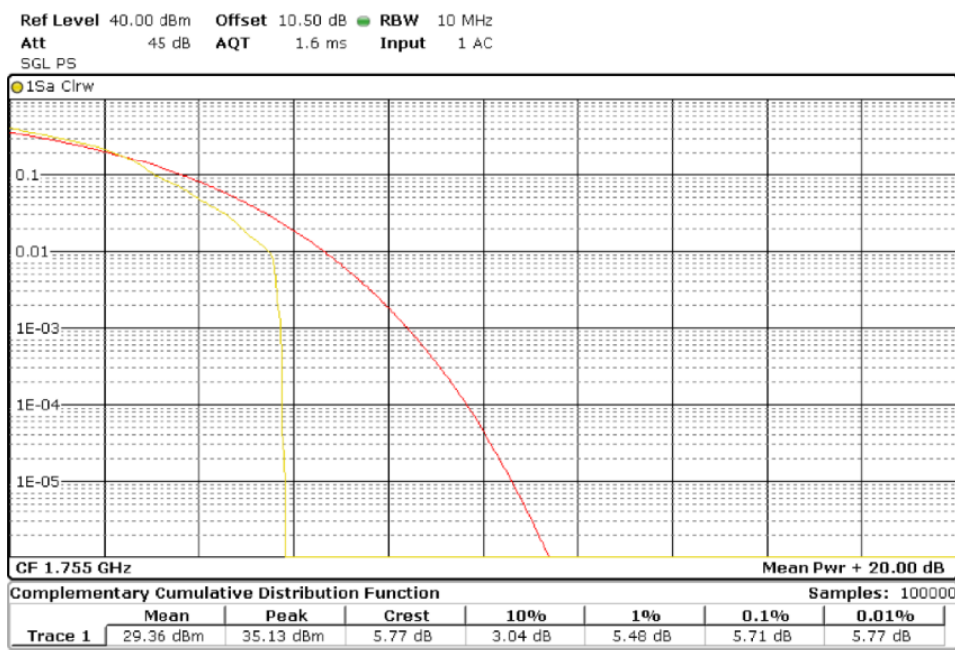


Bandwidth = 10 MHz. Modulation 16QAM. RB Size: 1. RB Offset: 0.
Lowest channel

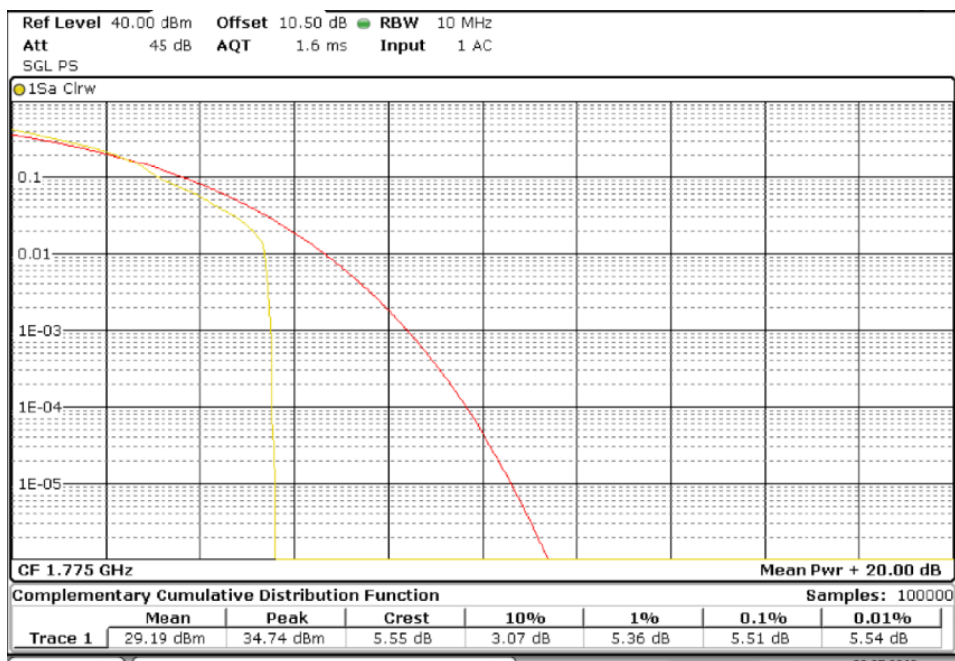


TEST RESULTS (Cont):

Middle channel



Highest channel

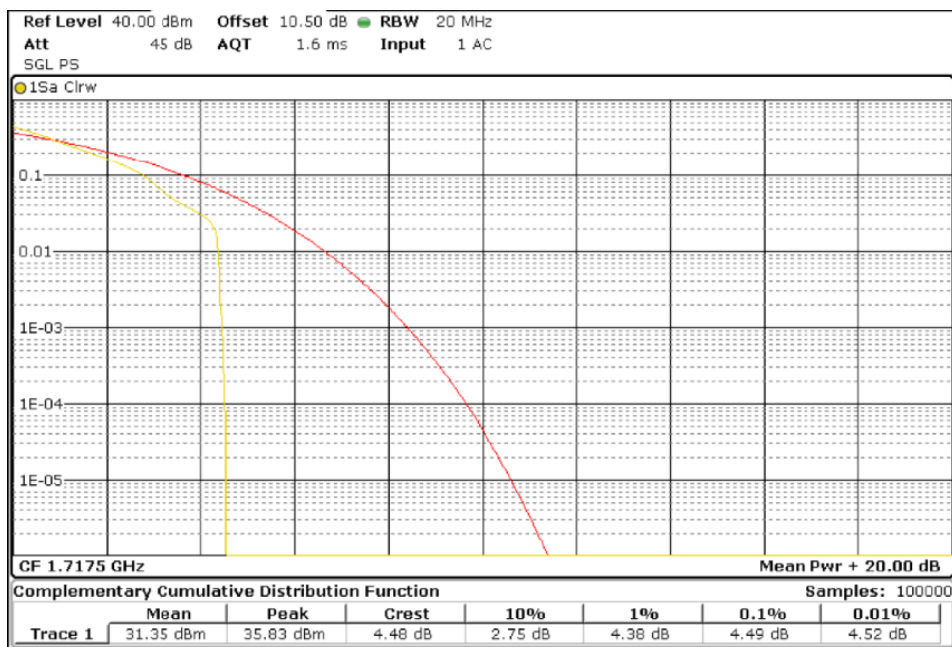


TEST RESULTS (Cont):

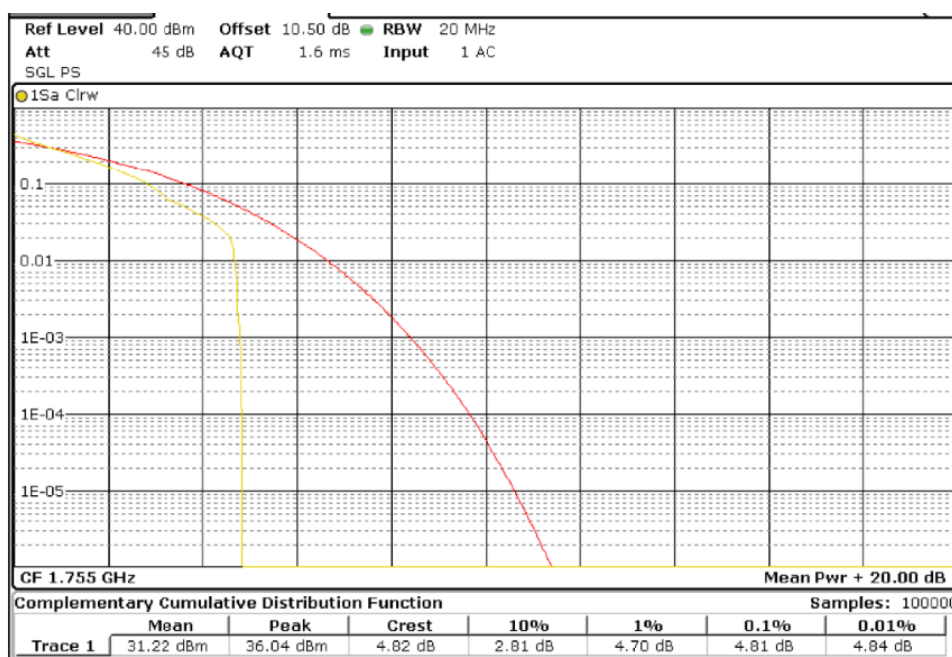
PAPR

Bandwidth = 15 MHz. Modulation QPSK. RB Size: 1. RB Offset: 0.

Lowest channel

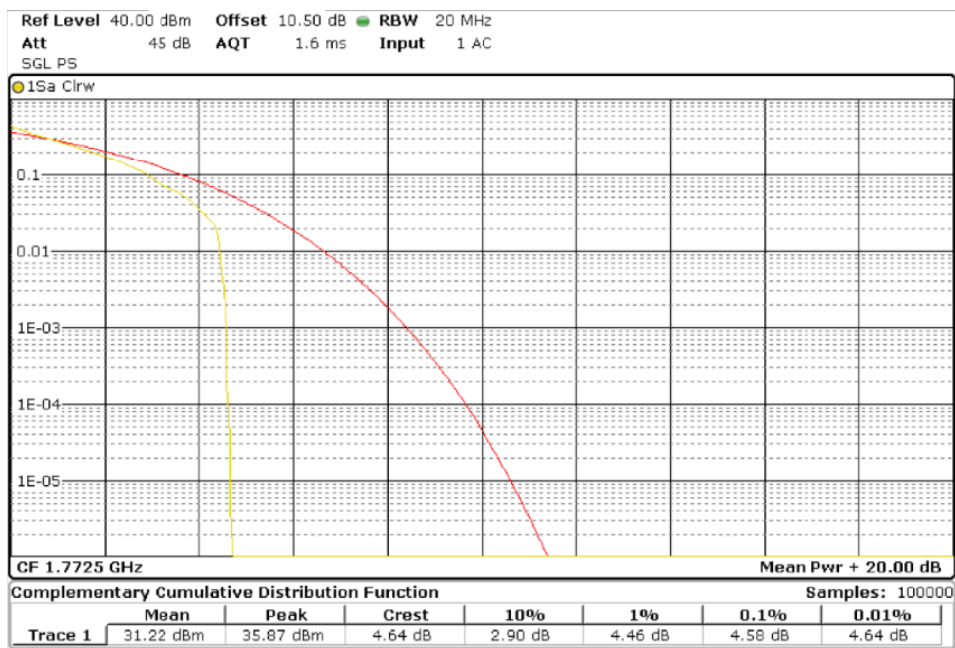


Middle channel

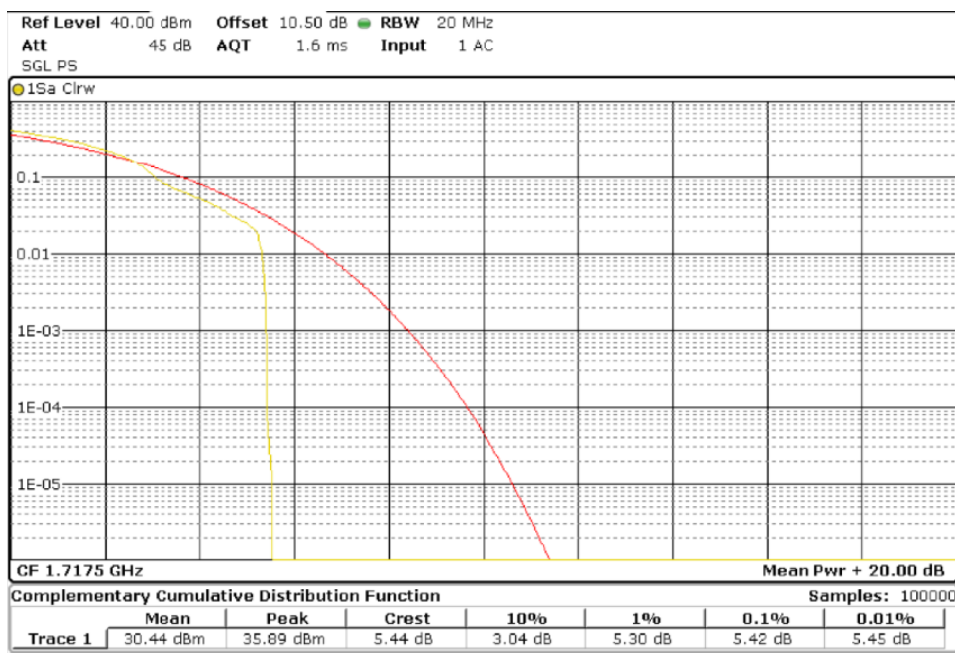


TEST RESULTS (Cont):

Highest channel

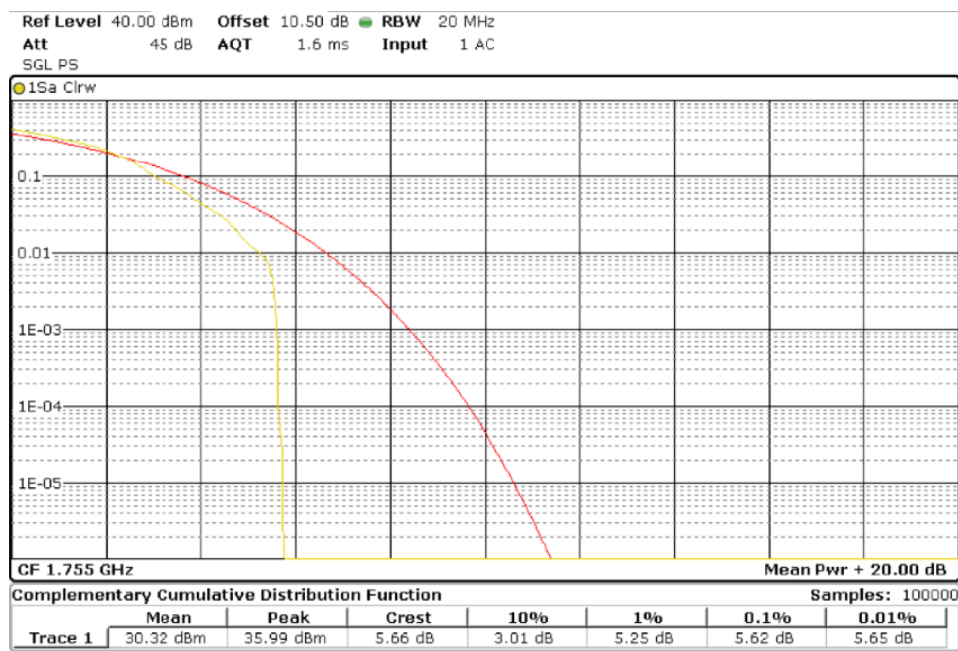


Bandwidth = 15 MHz. Modulation 16QAM. RB Size: 1. RB Offset: 0.
Lowest channel

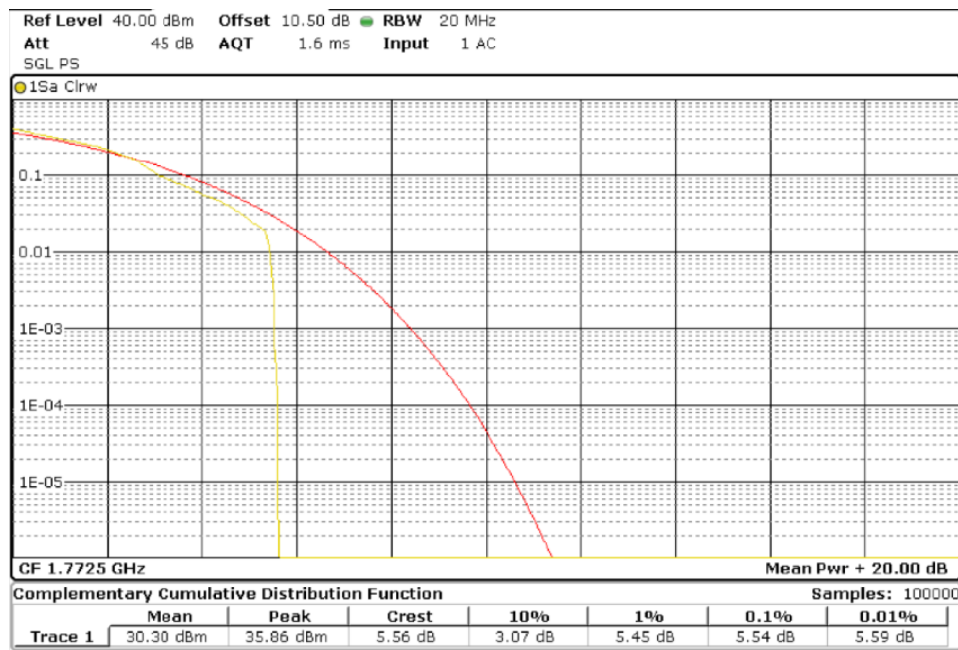


TEST RESULTS (Cont):

Middle channel

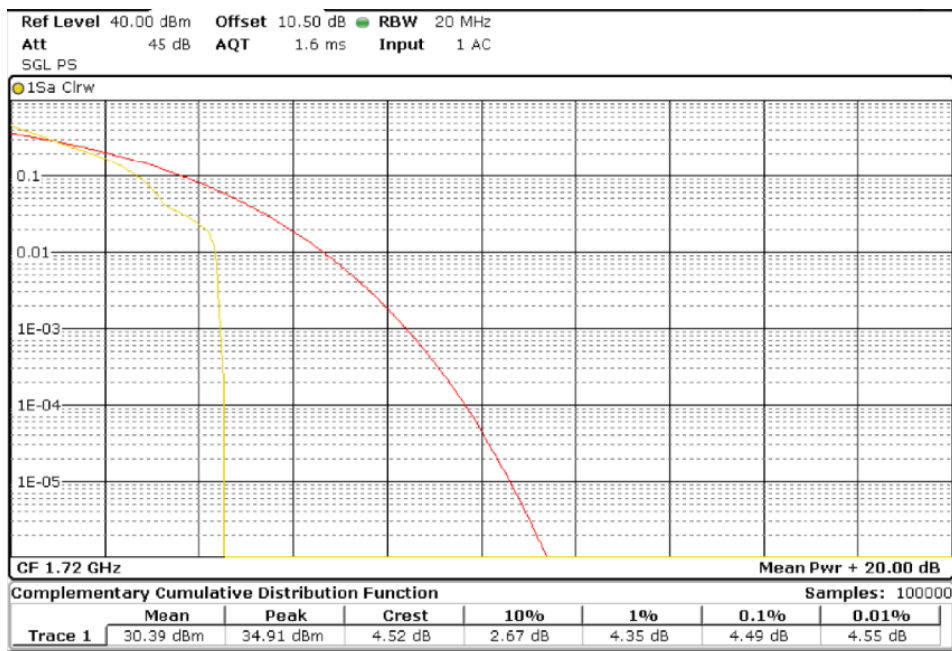


Highest channel

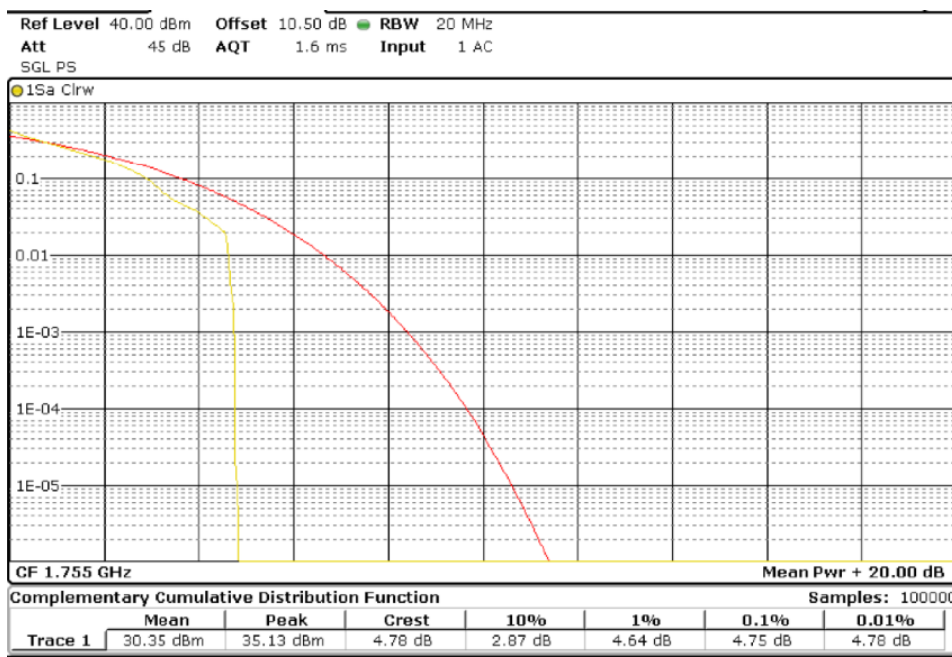


TEST RESULTS (Cont):

Bandwidth = 20 MHz. Modulation QPSK. RB Size: 1. RB Offset: 0.
Lowest channel

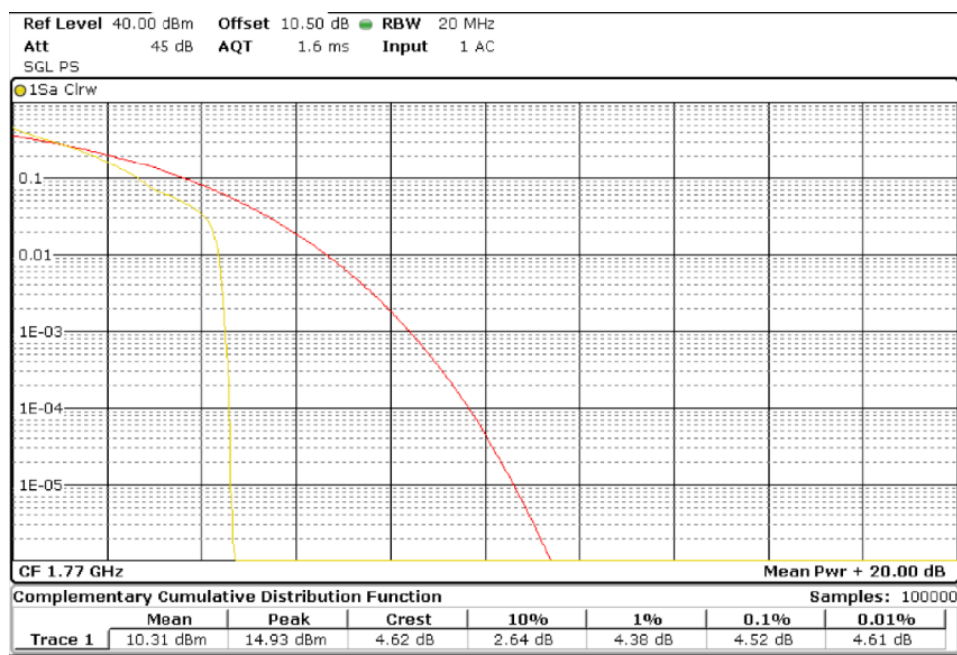


Middle channel

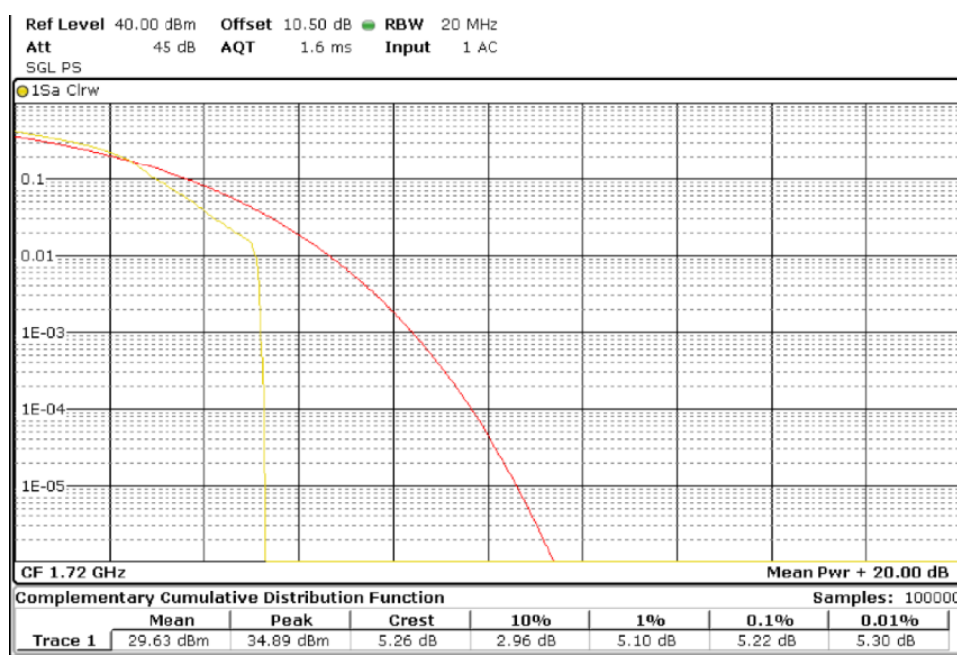


TEST RESULTS (Cont):

Highest channel

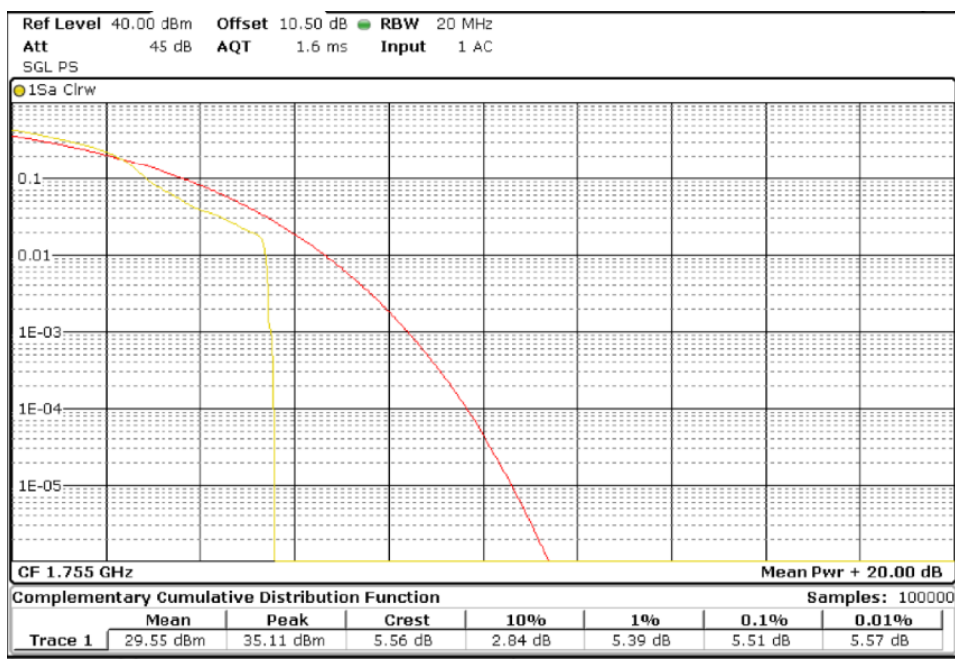


Bandwidth = 20 MHz. Modulation 16QAM. RB Size: 1. RB Offset: 0.
Lowest channel

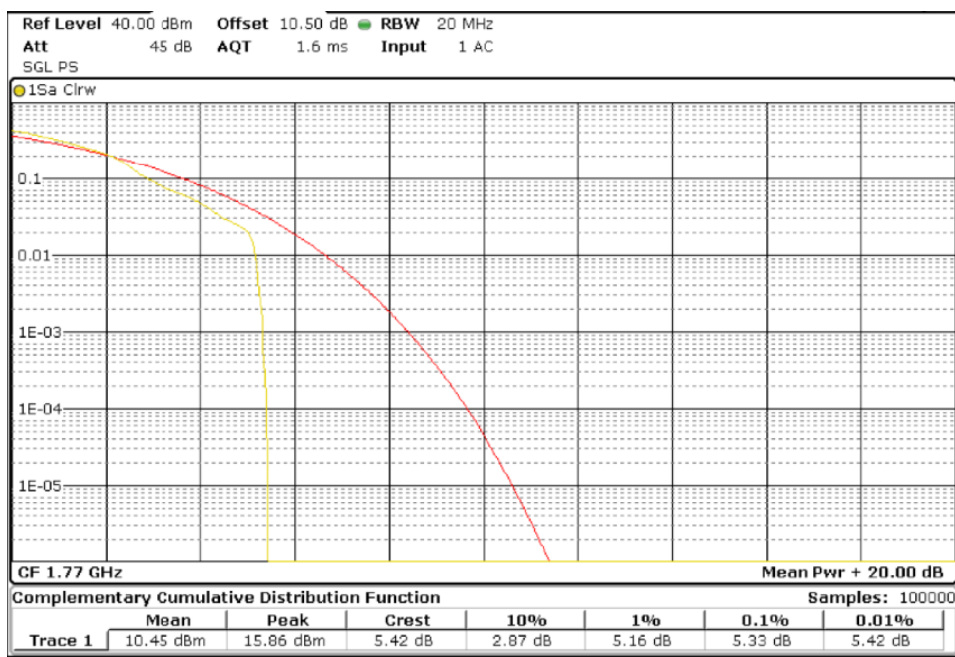


TEST RESULTS (Cont):

Middle channel



Highest channel



TEST A2: MODULATION CHARACTERISTICS

LIMITS:	Product standard:	FCC Part 27 / IC RSS-199/RSS-130/ RSS-139
	Test standard:	FCC §2.1047 and §27.50 / RSS-199 Clause 4.1/ RSS-139 Clause 6.2

LIMITS

A curve or equivalent data which shows that the equipment will meet the modulation requirements of the rules under which the equipment is to be licensed.

TEST SETUP

For LTE the EUT operates with QPSK and 16QAM modulation modes in which the information is digitized and coded into a bit stream. The RF transmission is multiplexed using Orthogonal Frequency Division Multiplexing (OFDM) using different possible arrangement of subcarriers (Resource Blocks RB).

