

Frequency stability

LTE Band 2 (QPSK) / 1880MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	0.66	0.000	2.5ppm	PASS
40		0.68	0.000		
30		0.47	0.000		
20		-2.82	-0.002		
10		-0.88	0.000		
0		-0.34	0.000		
-10		0.60	0.000		
-20		-0.38	0.000		
-30		0.57	0.000		
20	Maximum Voltage	-1.02	-0.001		
20	BEP	-0.86	0.000		

LTE Band 2 (16QAM) / 1880MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	0.13	0.000	2.5ppm	PASS
40		0.06	0.000		
30		-0.15	0.000		
20		-1.40	-0.001		
10		-0.04	0.000		
0		0.17	0.000		
-10		0.16	0.000		
-20		-0.07	0.000		
-30		-0.01	0.000		
20	Maximum Voltage	0.23	0.000		
20	BEP	-0.21	0.000		

LTE Band 4 (QPSK) / 1733MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.21	-0.001	2.5ppm	PASS
40		-1.42	-0.001		
30		1.20	0.001		
20		-4.32	-0.002		
10		1.28	0.001		
0		-1.06	-0.001		
-10		-1.54	-0.001		
-20		1.44	0.001		
-30		-1.61	-0.001		
20	Maximum Voltage	-1.89	-0.001	2.5ppm	PASS
20	BEP	0.77	0.000		

LTE Band 4 (16QAM) / 1733MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	0.89	0.001	2.5ppm	PASS
40		-0.41	0.000		
30		-0.62	0.000		
20		-2.96	-0.002		
10		-0.58	0.000		
0		-0.74	0.000		
-10		-0.71	0.000		
-20		0.55	0.000		
-30		0.44	0.000		
20	Maximum Voltage	0.25	0.000	2.5ppm	PASS
20	BEP	-1.26	-0.001		

LTE Band 5 (QPSK) / 836.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	1.58	0.002	2.5ppm	PASS
40		1.46	0.002		
30		-1.34	-0.002		
20		-4.59	-0.005		
10		-1.19	-0.001		
0		1.21	0.001		
-10		1.47	0.002		
-20		1.70	0.002		
-30		1.75	0.002		
20	Maximum Voltage	-1.76	-0.002	2.5ppm	PASS
20	BEP	0.69	0.001		

LTE Band 5 (16QAM) / 836.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	1.11	0.001	2.5ppm	PASS
40		-1.23	-0.001		
30		-1.22	-0.001		
20		-3.73	-0.004		
10		-1.15	-0.001		
0		-0.95	-0.001		
-10		0.78	0.001		
-20		1.23	0.001		
-30		1.08	0.001		
20	Maximum Voltage	0.63	0.001	2.5ppm	PASS
20	BEP	0.56	0.001		

LTE Band 7 (QPSK) / 2535MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	0.87	0.000	2.5ppm	PASS
40		1.06	0.000		
30		-1.00	0.000		
20		-3.96	-0.002		
10		-0.97	0.000		
0		-1.10	0.000		
-10		-1.31	-0.001		
-20		1.42	0.001		
-30		-1.04	0.000		
20	Maximum Voltage	-2.14	-0.001	2.5ppm	PASS
20	BEP	0.45	0.000		

LTE Band 7 (16QAM) / 2535MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	2.71	0.001	2.5ppm	PASS
40		2.62	0.001		
30		-3.02	-0.001		
20		-7.14	-0.003		
10		2.92	0.001		
0		2.53	0.001		
-10		-2.79	-0.001		
-20		-2.61	-0.001		
-30		-3.01	-0.001		
20	Maximum Voltage	-4.13	-0.002	2.5ppm	PASS
20	BEP	1.38	0.001		

LTE Band 12 (QPSK) / 707.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	0.21	0.000	2.5ppm	PASS
40		-0.24	0.000		
30		-0.19	0.000		
20		-1.53	-0.002		
10		-0.31	0.000		
0		-0.19	0.000		
-10		0.04	0.000		
-20		0.03	0.000		
-30		-0.23	0.000		
20	Maximum Voltage	0.11	0.000		
20	BEP	0.16	0.000		

LTE Band 12 (16QAM) / 707.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-0.63	-0.001	2.5ppm	PASS
40		0.87	0.001		
30		-0.36	-0.001		
20		-2.92	-0.004		
10		-0.45	-0.001		
0		-0.82	-0.001		
-10		0.73	0.001		
-20		0.50	0.001		
-30		-0.55	-0.001		
20	Maximum Voltage	0.22	0.000		
20	BEP	-0.58	-0.001		

LTE Band 13 (QPSK) / 782MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	0.09	0.000	2.5ppm	PASS
40		0.49	0.001		
30		-0.06	0.000		
20		-1.22	-0.002		
10		-0.35	0.000		
0		0.08	0.000		
-10		-0.49	-0.001		
-20		0.17	0.000		
-30		0.30	0.000		
20	Maximum Voltage	0.31	0.000		
20	BEP	-0.22	0.000		

LTE Band 13 (16QAM) / 782MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.00	-0.001	2.5ppm	PASS
40		1.45	0.002		
30		1.51	0.002		
20		-4.21	-0.005		
10		-1.00	-0.001		
0		1.28	0.002		
-10		-1.54	-0.002		
-20		1.28	0.002		
-30		-1.04	-0.001		
20	Maximum Voltage	-1.85	-0.002		
20	BEP	0.55	0.001		

LTE Band 17 (QPSK) / 710MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.03	-0.001	2.5ppm	PASS
40		-1.20	-0.002		
30		1.48	0.002		
20		-4.16	-0.006		
10		1.41	0.002		
0		1.03	0.001		
-10		-1.05	-0.001		
-20		-0.96	-0.001		
-30		1.44	0.002		
20	Maximum Voltage	-2.04	-0.003	2.5ppm	PASS
20	BEP	-1.53	-0.002		

LTE Band 17 (16QAM) / 710MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.23	-0.002	2.5ppm	PASS
40		-1.30	-0.002		
30		1.67	0.002		
20		-4.49	-0.006		
10		1.59	0.002		
0		1.60	0.002		
-10		-1.36	-0.002		
-20		-1.60	-0.002		
-30		-1.65	-0.002		
20	Maximum Voltage	0.68	0.001	2.5ppm	PASS
20	BEP	0.82	0.001		

LTE Band 25 (QPSK) / 1882.5MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-0.15	0.000	2.5ppm	PASS
40		0.06	0.000		
30		0.03	0.000		
20		-1.49	-0.001		
10		-0.31	0.000		
0		-0.06	0.000		
-10		0.06	0.000		
-20		0.25	0.000		
-30		-0.10	0.000		
20	Maximum Voltage	-0.01	0.000		
20	BEP	-0.05	0.000		

LTE Band 25 (16QAM) / 1882.5MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	1.31	0.001	2.5ppm	PASS
40		-1.19	-0.001		
30		-1.30	-0.001		
20		-4.22	-0.002		
10		-1.04	-0.001		
0		-1.17	-0.001		
-10		1.44	0.001		
-20		1.40	0.001		
-30		1.21	0.001		
20	Maximum Voltage	0.52	0.000		
20	BEP	0.51	0.000		

LTE Band 26 (QPSK) / 836.5MHz / BW15M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	1.85	0.002	2.5ppm	PASS
40		-1.71	-0.002		
30		-1.64	-0.002		
20		-4.98	-0.006		
10		1.51	0.002		
0		1.77	0.002		
-10		1.78	0.002		
-20		1.96	0.002		
-30		1.90	0.002		
20	Maximum Voltage	-2.54	-0.003		
20	BEP	-2.10	-0.003		

LTE Band 26 (16QAM) / 836.5MHz / BW15M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-0.63	-0.001	2.5ppm	PASS
40		0.43	0.001		
30		0.57	0.001		
20		-2.98	-0.004		
10		-0.47	-0.001		
0		0.78	0.001		
-10		-0.67	-0.001		
-20		0.56	0.001		
-30		0.89	0.001		
20	Maximum Voltage	-0.61	-0.001		
20	BEP	-0.86	-0.001		

LTE Band 38 (QPSK) / 2595MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.27	0.000	2.5ppm	PASS
40		0.86	0.000		
30		0.94	0.000		
20		-3.60	-0.001		
10		-1.14	0.000		
0		-0.85	0.000		
-10		-1.09	0.000		
-20		-1.22	0.000		
-30		0.85	0.000		
20	Maximum Voltage	-1.45	-0.001		
20	BEP	0.54	0.000		

LTE Band 38 (16QAM) / 2595MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-0.07	0.000	2.5ppm	PASS
40		0.12	0.000		
30		0.26	0.000		
20		-1.75	-0.001		
10		-0.24	0.000		
0		0.30	0.000		
-10		-0.33	0.000		
-20		0.02	0.000		
-30		-0.35	0.000		
20	Maximum Voltage	-0.08	0.000		
20	BEP	0.01	0.000		

Band40(2305-2315) (QPSK) / 2310MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-0.26	0.000	2.5ppm	PASS
40		0.20	0.000		
30		-0.19	0.000		
20		-1.62	-0.001		
10		0.05	0.000		
0		-0.09	0.000		
-10		0.10	0.000		
-20		-0.18	0.000		
-30		0.26	0.000		
20	Maximum Voltage	-0.41	0.000	2.5ppm	PASS
20	BEP	-0.14	0.000		

Band40(2305-2315) (16QAM) / 2310MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.91	-0.001	2.5ppm	PASS
40		-2.06	-0.001		
30		-1.89	-0.001		
20		-5.98	-0.003		
10		2.00	0.001		
0		-2.45	-0.001		
-10		2.09	0.001		
-20		2.37	0.001		
-30		-1.87	-0.001		
20	Maximum Voltage	-3.52	-0.002	2.5ppm	PASS
20	BEP	1.10	0.000		

Band40(2350-2360)(QPSK) / 2355MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	0.49	0.000	2.5ppm	PASS
40		-0.92	0.000		
30		-0.75	0.000		
20		-0.31	0.000		
10		-0.42	0.000		
0		-0.40	0.000		
-10		0.44	0.000		
-20		-0.50	0.000		
-30		-0.80	0.000		
20	Maximum Voltage	-0.20	0.000	2.5ppm	PASS
20	BEP	1.07	0.000		

Band40(2350-2360)(16QAM) / 2355MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-0.53	0.000	2.5ppm	PASS
40		-0.86	0.000		
30		-0.62	0.000		
20		-0.23	0.000		
10		-0.51	0.000		
0		-0.56	0.000		
-10		-0.67	0.000		
-20		0.72	0.000		
-30		0.85	0.000		
20	Maximum Voltage	1.02	0.000	2.5ppm	PASS
20	BEP	0.83	0.000		

LTE Band 41 (QPSK) / 2605MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	2.67	0.001	2.5ppm	PASS
40		-2.70	-0.001		
30		2.34	0.001		
20		-6.77	-0.003		
10		-2.64	-0.001		
0		-2.69	-0.001		
-10		-2.72	-0.001		
-20		2.75	0.001		
-30		2.74	0.001		
20	Maximum Voltage	-4.16	-0.002		
20	BEP	1.15	0.000		

LTE Band 41 (16QAM) / 2605MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	3.62	0.001	2.5ppm	PASS
40		-3.45	-0.001		
30		-3.30	-0.001		
20		-8.84	-0.003		
10		3.37	0.001		
0		-3.86	-0.001		
-10		-3.37	-0.001		
-20		3.48	0.001		
-30		3.60	0.001		
20	Maximum Voltage	1.77	0.001		
20	BEP	-5.43	-0.002		

LTE Band 66 (QPSK) / 1745MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	1.86	0.001	2.5ppm	PASS
40		2.00	0.001		
30		1.51	0.001		
20		1.77	0.001		
10		1.73	0.001		
0		1.97	0.001		
-10		-1.42	-0.001		
-20		-1.73	-0.001		
-30		1.47	0.001		
20	Maximum Voltage	2.33	0.001	2.5ppm	PASS
20	BEP	-0.81	0.000		

LTE Band 66 (16QAM) / 1745MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-1.73	-0.001	2.5ppm	PASS
40		-1.70	-0.001		
30		1.83	0.001		
20		2.12	0.001		
10		1.93	0.001		
0		-1.89	-0.001		
-10		2.15	0.001		
-20		2.08	0.001		
-30		1.63	0.001		
20	Maximum Voltage	-1.01	-0.001	2.5ppm	PASS
20	BEP	-0.79	0.000		

Peak-to-Average Ratio

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band2	1.4	18607	1	#0	QPSK	5.36	13	PASS
Band2	1.4	18607	1	#0	16QAM	6.24	13	PASS
Band2	1.4	18900	1	#0	QPSK	5.16	13	PASS
Band2	1.4	18900	1	#0	16QAM	5.68	13	PASS
Band2	1.4	19193	1	#0	QPSK	5.30	13	PASS
Band2	1.4	19193	1	#0	16QAM	5.90	13	PASS
Band2	3	18615	1	#0	QPSK	5.27	13	PASS
Band2	3	18615	1	#0	16QAM	6.07	13	PASS
Band2	3	18900	1	#0	QPSK	5.46	13	PASS
Band2	3	18900	1	#0	16QAM	6.42	13	PASS
Band2	3	19185	1	#0	QPSK	5.24	13	PASS
Band2	3	19185	1	#0	16QAM	5.68	13	PASS
Band2	5	18625	1	#0	QPSK	5.74	13	PASS
Band2	5	18625	1	#0	16QAM	5.97	13	PASS
Band2	5	18900	1	#0	QPSK	5.28	13	PASS
Band2	5	18900	1	#0	16QAM	5.69	13	PASS
Band2	5	19175	1	#0	QPSK	5.56	13	PASS
Band2	5	19175	1	#0	16QAM	5.91	13	PASS
Band2	10	18650	1	#0	QPSK	5.14	13	PASS
Band2	10	18650	1	#0	16QAM	5.69	13	PASS
Band2	10	18900	1	#0	QPSK	5.29	13	PASS
Band2	10	18900	1	#0	16QAM	6.00	13	PASS
Band2	10	19150	1	#0	QPSK	5.04	13	PASS
Band2	10	19150	1	#0	16QAM	5.93	13	PASS
Band2	15	18675	1	#0	QPSK	5.33	13	PASS
Band2	15	18675	1	#0	16QAM	6.16	13	PASS
Band2	15	18900	1	#0	QPSK	5.21	13	PASS
Band2	15	18900	1	#0	16QAM	6.02	13	PASS
Band2	15	19125	1	#0	QPSK	5.33	13	PASS
Band2	15	19125	1	#0	16QAM	5.72	13	PASS
Band2	20	18700	1	#0	QPSK	5.34	13	PASS
Band2	20	18700	1	#0	16QAM	5.48	13	PASS
Band2	20	18900	1	#0	QPSK	5.23	13	PASS
Band2	20	18900	1	#0	16QAM	5.80	13	PASS
Band2	20	19100	1	#0	QPSK	5.50	13	PASS
Band2	20	19100	1	#0	16QAM	6.56	13	PASS
Band4	1.4	19957	1	#0	QPSK	5.50	13	PASS
Band4	1.4	19957	1	#0	16QAM	6.43	13	PASS
Band4	1.4	20175	1	#0	QPSK	5.16	13	PASS
Band4	1.4	20175	1	#0	16QAM	6.19	13	PASS
Band4	1.4	20393	1	#0	QPSK	4.99	13	PASS
Band4	1.4	20393	1	#0	16QAM	5.50	13	PASS
Band4	3	19965	1	#0	QPSK	5.34	13	PASS
Band4	3	19965	1	#0	16QAM	6.29	13	PASS
Band4	3	20175	1	#0	QPSK	5.17	13	PASS
Band4	3	20175	1	#0	16QAM	6.33	13	PASS
Band4	3	20385	1	#0	QPSK	4.97	13	PASS
Band4	3	20385	1	#0	16QAM	5.53	13	PASS
Band4	5	19975	1	#0	QPSK	5.69	13	PASS
Band4	5	19975	1	#0	16QAM	6.04	13	PASS
Band4	5	20175	1	#0	QPSK	5.07	13	PASS
Band4	5	20175	1	#0	16QAM	5.55	13	PASS
Band4	5	20375	1	#0	QPSK	5.29	13	PASS
Band4	5	20375	1	#0	16QAM	5.93	13	PASS
Band4	10	20000	1	#0	QPSK	5.18	13	PASS
Band4	10	20000	1	#0	16QAM	5.91	13	PASS
Band4	10	20175	1	#0	QPSK	4.91	13	PASS
Band4	10	20175	1	#0	16QAM	5.55	13	PASS
Band4	10	20350	1	#0	QPSK	5.36	13	PASS
Band4	10	20350	1	#0	16QAM	6.46	13	PASS
Band4	15	20025	1	#0	QPSK	5.28	13	PASS
Band4	15	20025	1	#0	16QAM	5.97	13	PASS
Band4	15	20175	1	#0	QPSK	5.06	13	PASS
Band4	15	20175	1	#0	16QAM	5.62	13	PASS
Band4	15	20325	1	#0	QPSK	5.16	13	PASS
Band4	15	20325	1	#0	16QAM	6.18	13	PASS
Band4	20	20050	1	#0	QPSK	5.12	13	PASS
Band4	20	20050	1	#0	16QAM	5.61	13	PASS
Band4	20	20175	1	#0	QPSK	4.90	13	PASS
Band4	20	20175	1	#0	16QAM	5.58	13	PASS
Band4	20	20300	1	#0	QPSK	5.11	13	PASS
Band4	20	20300	1	#0	16QAM	6.22	13	PASS

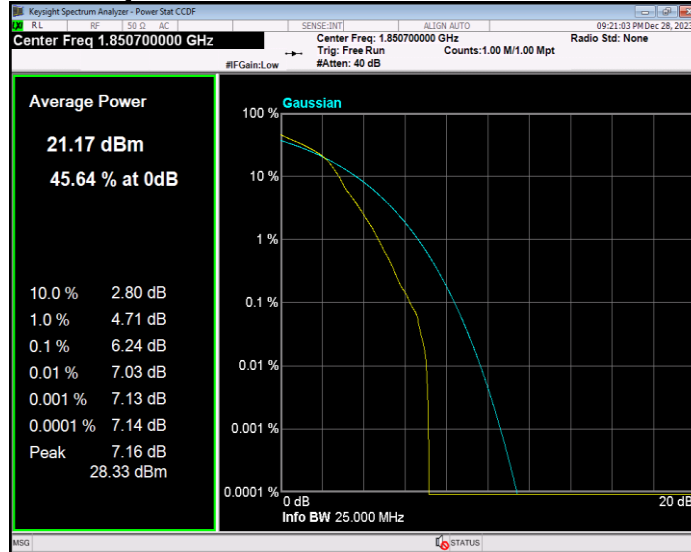
Band5	1.4	20407	1	#0	QPSK	4.97	13	PASS
Band5	1.4	20407	1	#0	16QAM	5.86	13	PASS
Band5	1.4	20525	1	#0	QPSK	5.71	13	PASS
Band5	1.4	20525	1	#0	16QAM	6.86	13	PASS
Band5	1.4	20643	1	#0	QPSK	4.83	13	PASS
Band5	1.4	20643	1	#0	16QAM	5.44	13	PASS
Band5	3	20415	1	#0	QPSK	4.94	13	PASS
Band5	3	20415	1	#0	16QAM	5.49	13	PASS
Band5	3	20525	1	#0	QPSK	6.00	13	PASS
Band5	3	20525	1	#0	16QAM	6.86	13	PASS
Band5	3	20635	1	#0	QPSK	5.00	13	PASS
Band5	3	20635	1	#0	16QAM	5.78	13	PASS
Band5	5	20425	1	#0	QPSK	5.24	13	PASS
Band5	5	20425	1	#0	16QAM	5.92	13	PASS
Band5	5	20525	1	#0	QPSK	5.97	13	PASS
Band5	5	20525	1	#0	16QAM	6.27	13	PASS
Band5	5	20625	1	#0	QPSK	4.52	13	PASS
Band5	5	20625	1	#0	16QAM	5.04	13	PASS
Band5	10	20450	1	#0	QPSK	4.98	13	PASS
Band5	10	20450	1	#0	16QAM	5.96	13	PASS
Band5	10	20525	1	#0	QPSK	5.37	13	PASS
Band5	10	20525	1	#0	16QAM	5.90	13	PASS
Band5	10	20600	1	#0	QPSK	4.03	13	PASS
Band5	10	20600	1	#0	16QAM	4.75	13	PASS
Band7	5	20775	1	#0	QPSK	3.87	13	PASS
Band7	5	20775	1	#0	16QAM	4.41	13	PASS
Band7	5	21100	1	#0	QPSK	3.91	13	PASS
Band7	5	21100	1	#0	16QAM	4.42	13	PASS
Band7	5	21425	1	#0	QPSK	4.20	13	PASS
Band7	5	21425	1	#0	16QAM	4.61	13	PASS
Band7	10	20800	1	#0	QPSK	3.89	13	PASS
Band7	10	20800	1	#0	16QAM	4.66	13	PASS
Band7	10	21100	1	#0	QPSK	3.57	13	PASS
Band7	10	21100	1	#0	16QAM	4.24	13	PASS
Band7	10	21400	1	#0	QPSK	3.82	13	PASS
Band7	10	21400	1	#0	16QAM	4.58	13	PASS
Band7	15	20825	1	#0	QPSK	3.92	13	PASS
Band7	15	20825	1	#0	16QAM	4.54	13	PASS
Band7	15	21100	1	#0	QPSK	3.65	13	PASS
Band7	15	21100	1	#0	16QAM	4.45	13	PASS
Band7	15	21375	1	#0	QPSK	3.60	13	PASS
Band7	15	21375	1	#0	16QAM	4.38	13	PASS
Band7	20	20850	1	#0	QPSK	4.18	13	PASS
Band7	20	20850	1	#0	16QAM	5.03	13	PASS
Band7	20	21100	1	#0	QPSK	3.73	13	PASS
Band7	20	21100	1	#0	16QAM	4.27	13	PASS
Band7	20	21350	1	#0	QPSK	3.14	13	PASS
Band7	20	21350	1	#0	16QAM	3.82	13	PASS
Band12	1.4	23017	1	#0	QPSK	4.24	13	PASS
Band12	1.4	23017	1	#0	16QAM	4.92	13	PASS
Band12	1.4	23095	1	#0	QPSK	5.11	13	PASS
Band12	1.4	23095	1	#0	16QAM	6.04	13	PASS
Band12	1.4	23173	1	#0	QPSK	4.07	13	PASS
Band12	1.4	23173	1	#0	16QAM	4.69	13	PASS
Band12	3	23025	1	#0	QPSK	4.15	13	PASS
Band12	3	23025	1	#0	16QAM	4.90	13	PASS
Band12	3	23095	1	#0	QPSK	5.21	13	PASS
Band12	3	23095	1	#0	16QAM	5.93	13	PASS
Band12	3	23165	1	#0	QPSK	4.68	13	PASS
Band12	3	23165	1	#0	16QAM	5.32	13	PASS
Band12	5	23035	1	#0	QPSK	4.03	13	PASS
Band12	5	23035	1	#0	16QAM	4.54	13	PASS
Band12	5	23095	1	#0	QPSK	5.29	13	PASS
Band12	5	23095	1	#0	16QAM	5.86	13	PASS
Band12	5	23155	1	#0	QPSK	5.81	13	PASS
Band12	5	23155	1	#0	16QAM	6.29	13	PASS
Band12	10	23060	1	#0	QPSK	3.99	13	PASS
Band12	10	23060	1	#0	16QAM	4.75	13	PASS
Band12	10	23095	1	#0	QPSK	4.90	13	PASS
Band12	10	23095	1	#0	16QAM	5.44	13	PASS
Band12	10	23130	1	#0	QPSK	5.11	13	PASS
Band12	10	23130	1	#0	16QAM	5.95	13	PASS
Band13	5	23205	1	#0	QPSK	4.65	13	PASS
Band13	5	23205	1	#0	16QAM	5.16	13	PASS
Band13	5	23230	1	#0	QPSK	5.59	13	PASS
Band13	5	23230	1	#0	16QAM	6.24	13	PASS
Band13	5	23255	1	#0	QPSK	6.22	13	PASS

Band13	5	23255	1	#0	16QAM	6.52	13	PASS
Band13	10	23230	1	#0	QPSK	4.72	13	PASS
Band13	10	23230	1	#0	16QAM	5.54	13	PASS
Band17	5	23755	1	#0	QPSK	5.27	13	PASS
Band17	5	23755	1	#0	16QAM	5.85	13	PASS
Band17	5	23790	1	#0	QPSK	5.10	13	PASS
Band17	5	23790	1	#0	16QAM	5.58	13	PASS
Band17	5	23825	1	#0	QPSK	5.89	13	PASS
Band17	5	23825	1	#0	16QAM	6.15	13	PASS
Band17	10	23780	1	#0	QPSK	5.33	13	PASS
Band17	10	23780	1	#0	16QAM	6.07	13	PASS
Band17	10	23790	1	#0	QPSK	5.13	13	PASS
Band17	10	23790	1	#0	16QAM	5.62	13	PASS
Band17	10	23800	1	#0	QPSK	5.18	13	PASS
Band17	10	23800	1	#0	16QAM	5.91	13	PASS
Band25	1.4	26047	1	#0	QPSK	5.47	13	PASS
Band25	1.4	26047	1	#0	16QAM	6.51	13	PASS
Band25	1.4	26365	1	#0	QPSK	5.58	13	PASS
Band25	1.4	26365	1	#0	16QAM	6.48	13	PASS
Band25	1.4	26683	1	#0	QPSK	4.01	13	PASS
Band25	1.4	26683	1	#0	16QAM	5.35	13	PASS
Band25	3	26055	1	#0	QPSK	5.37	13	PASS
Band25	3	26055	1	#0	16QAM	6.04	13	PASS
Band25	3	26365	1	#0	QPSK	5.17	13	PASS
Band25	3	26365	1	#0	16QAM	5.70	13	PASS
Band25	3	26675	1	#0	QPSK	3.59	13	PASS
Band25	3	26675	1	#0	16QAM	5.47	13	PASS
Band25	5	26065	1	#0	QPSK	5.31	13	PASS
Band25	5	26065	1	#0	16QAM	5.75	13	PASS
Band25	5	26365	1	#0	QPSK	5.50	13	PASS
Band25	5	26365	1	#0	16QAM	6.02	13	PASS
Band25	5	26665	1	#0	QPSK	5.02	13	PASS
Band25	5	26665	1	#0	16QAM	5.57	13	PASS
Band25	10	26090	1	#0	QPSK	5.39	13	PASS
Band25	10	26090	1	#0	16QAM	6.26	13	PASS
Band25	10	26365	1	#0	QPSK	5.23	13	PASS
Band25	10	26365	1	#0	16QAM	6.31	13	PASS
Band25	10	26640	1	#0	QPSK	5.01	13	PASS
Band25	10	26640	1	#0	16QAM	5.54	13	PASS
Band25	15	26115	1	#0	QPSK	5.37	13	PASS
Band25	15	26115	1	#0	16QAM	6.32	13	PASS
Band25	15	26365	1	#0	QPSK	5.29	13	PASS
Band25	15	26365	1	#0	16QAM	5.96	13	PASS
Band25	15	26615	1	#0	QPSK	4.99	13	PASS
Band25	15	26615	1	#0	16QAM	5.70	13	PASS
Band25	20	26140	1	#0	QPSK	5.55	13	PASS
Band25	20	26140	1	#0	16QAM	6.12	13	PASS
Band25	20	26365	1	#0	QPSK	5.21	13	PASS
Band25	20	26365	1	#0	16QAM	5.91	13	PASS
Band25	20	26590	1	#0	QPSK	4.39	13	PASS
Band25	20	26590	1	#0	16QAM	5.44	13	PASS
Band26(824-849)	1.4	26797	1	#0	QPSK	4.97	13	PASS
Band26(824-849)	1.4	26797	1	#0	16QAM	5.84	13	PASS
Band26(824-849)	1.4	26915	1	#0	QPSK	5.93	13	PASS
Band26(824-849)	1.4	26915	1	#0	16QAM	6.96	13	PASS
Band26(824-849)	1.4	27033	1	#0	QPSK	4.99	13	PASS
Band26(824-849)	1.4	27033	1	#0	16QAM	5.49	13	PASS
Band26(824-849)	3	26805	1	#0	QPSK	4.92	13	PASS
Band26(824-849)	3	26805	1	#0	16QAM	5.87	13	PASS
Band26(824-849)	3	26915	1	#0	QPSK	5.66	13	PASS
Band26(824-849)	3	26915	1	#0	16QAM	6.08	13	PASS
Band26(824-849)	3	27025	1	#0	QPSK	4.96	13	PASS
Band26(824-849)	3	27025	1	#0	16QAM	5.85	13	PASS
Band26(824-849)	5	26815	1	#0	QPSK	4.79	13	PASS
Band26(824-849)	5	26815	1	#0	16QAM	5.25	13	PASS
Band26(824-849)	5	26915	1	#0	QPSK	5.71	13	PASS
Band26(824-849)	5	26915	1	#0	16QAM	6.39	13	PASS
Band26(824-849)	5	27015	1	#0	QPSK	4.48	13	PASS
Band26(824-849)	5	27015	1	#0	16QAM	5.07	13	PASS
Band26(824-849)	10	26840	1	#0	QPSK	4.94	13	PASS
Band26(824-849)	10	26840	1	#0	16QAM	5.85	13	PASS
Band26(824-849)	10	26915	1	#0	QPSK	5.77	13	PASS
Band26(824-849)	10	26915	1	#0	16QAM	6.62	13	PASS
Band26(824-849)	10	26990	1	#0	QPSK	4.00	13	PASS
Band26(824-849)	10	26990	1	#0	16QAM	4.69	13	PASS
Band26(824-849)	15	26865	1	#0	QPSK	5.05	13	PASS
Band26(824-849)	15	26865	1	#0	16QAM	5.84	13	PASS

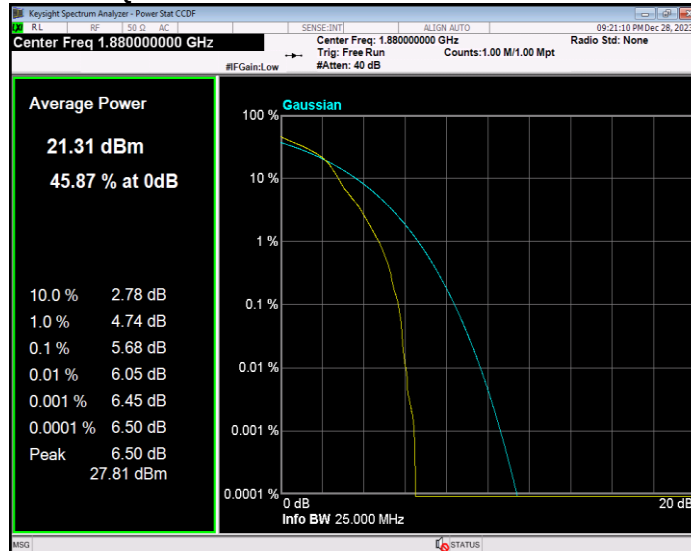
Band26(824-849)	15	26915	1	#0	QPSK	5.09	13	PASS
Band26(824-849)	15	26915	1	#0	16QAM	5.88	13	PASS
Band26(824-849)	15	26965	1	#0	QPSK	6.06	13	PASS
Band26(824-849)	15	26965	1	#0	16QAM	6.57	13	PASS
Band38	5	37775	1	#0	QPSK	9.37	13	PASS
Band38	5	37775	1	#0	16QAM	9.79	13	PASS
Band38	5	38000	1	#0	QPSK	9.27	13	PASS
Band38	5	38000	1	#0	16QAM	9.90	13	PASS
Band38	5	38225	1	#0	QPSK	9.15	13	PASS
Band38	5	38225	1	#0	16QAM	8.32	13	PASS
Band38	10	37800	1	#0	QPSK	11.03	13	PASS
Band38	10	37800	1	#0	16QAM	9.36	13	PASS
Band38	10	38000	1	#0	QPSK	7.51	13	PASS
Band38	10	38000	1	#0	16QAM	9.49	13	PASS
Band38	10	38200	1	#0	QPSK	9.36	13	PASS
Band38	10	38200	1	#0	16QAM	9.17	13	PASS
Band38	15	37825	1	#0	QPSK	8.96	13	PASS
Band38	15	37825	1	#0	16QAM	8.09	13	PASS
Band38	15	38000	1	#0	QPSK	8.00	13	PASS
Band38	15	38000	1	#0	16QAM	9.39	13	PASS
Band38	15	38175	1	#0	QPSK	7.84	13	PASS
Band38	15	38175	1	#0	16QAM	9.58	13	PASS
Band38	20	37850	1	#0	QPSK	8.26	13	PASS
Band38	20	37850	1	#0	16QAM	9.06	13	PASS
Band38	20	38000	1	#0	QPSK	8.07	13	PASS
Band38	20	38000	1	#0	16QAM	8.05	13	PASS
Band38	20	38150	1	#0	QPSK	8.18	13	PASS
Band38	20	38150	1	#0	16QAM	10.53	13	PASS
Band40(2350-2360)	5	39175	1	#0	QPSK	8.88	13	PASS
Band40(2350-2360)	5	39175	1	#0	16QAM	9.36	13	PASS
Band40(2350-2360)	5	39200	1	#0	QPSK	8.69	13	PASS
Band40(2350-2360)	5	39200	1	#0	16QAM	9.56	13	PASS
Band40(2350-2360)	5	39225	1	#0	QPSK	9.33	13	PASS
Band40(2350-2360)	5	39225	1	#0	16QAM	9.35	13	PASS
Band40(2350-2360)	10	39200	1	#0	QPSK	10.07	13	PASS
Band40(2350-2360)	10	39200	1	#0	16QAM	9.32	13	PASS
Band40(2305-2315)	5	38725	1	#0	QPSK	9.38	13	PASS
Band40(2305-2315)	5	38725	1	#0	16QAM	8.38	13	PASS
Band40(2305-2315)	5	38750	1	#0	QPSK	7.96	13	PASS
Band40(2305-2315)	5	38750	1	#0	16QAM	9.87	13	PASS
Band40(2305-2315)	5	38775	1	#0	QPSK	8.98	13	PASS
Band40(2305-2315)	5	38775	1	#0	16QAM	9.34	13	PASS
Band40(2305-2315)	10	38750	1	#0	QPSK	8.85	13	PASS
Band40(2305-2315)	10	38750	1	#0	16QAM	9.60	13	PASS
Band41(2535-2675)	5	40740	1	#0	QPSK	7.65	13	PASS
Band41(2535-2675)	5	40740	1	#0	16QAM	9.25	13	PASS
Band41(2535-2675)	10	40740	1	#0	QPSK	9.31	13	PASS
Band41(2535-2675)	10	40740	1	#0	16QAM	9.22	13	PASS
Band41(2535-2675)	15	40740	1	#0	QPSK	9.08	13	PASS
Band41(2535-2675)	15	40740	1	#0	16QAM	8.19	13	PASS
Band41(2535-2675)	20	40740	1	#0	QPSK	9.06	13	PASS
Band41(2535-2675)	20	40740	1	#0	16QAM	9.47	13	PASS
Band66	1.4	131979	1	#0	QPSK	5.20	13	PASS
Band66	1.4	131979	1	#0	16QAM	6.05	13	PASS
Band66	1.4	132322	1	#0	QPSK	5.12	13	PASS
Band66	1.4	132322	1	#0	16QAM	5.51	13	PASS
Band66	1.4	132665	1	#0	QPSK	4.92	13	PASS
Band66	1.4	132665	1	#0	16QAM	5.62	13	PASS
Band66	3	131987	1	#0	QPSK	5.21	13	PASS
Band66	3	131987	1	#0	16QAM	6.13	13	PASS
Band66	3	132322	1	#0	QPSK	5.18	13	PASS
Band66	3	132322	1	#0	16QAM	6.13	13	PASS
Band66	3	132657	1	#0	QPSK	4.75	13	PASS
Band66	3	132657	1	#0	16QAM	5.43	13	PASS
Band66	5	131997	1	#0	QPSK	5.07	13	PASS
Band66	5	131997	1	#0	16QAM	5.54	13	PASS
Band66	5	132322	1	#0	QPSK	5.20	13	PASS
Band66	5	132322	1	#0	16QAM	5.81	13	PASS
Band66	5	132647	1	#0	QPSK	5.53	13	PASS
Band66	5	132647	1	#0	16QAM	5.91	13	PASS
Band66	10	132022	1	#0	QPSK	4.96	13	PASS
Band66	10	132022	1	#0	16QAM	5.56	13	PASS
Band66	10	132322	1	#0	QPSK	5.09	13	PASS
Band66	10	132322	1	#0	16QAM	6.00	13	PASS
Band66	10	132622	1	#0	QPSK	5.17	13	PASS
Band66	10	132622	1	#0	16QAM	5.94	13	PASS
Band66	15	132047	1	#0	QPSK	5.21	13	PASS

Band66	15	132047	1	#0	16QAM	6.07	13	PASS
Band66	15	132322	1	#0	QPSK	5.03	13	PASS
Band66	15	132322	1	#0	16QAM	5.88	13	PASS
Band66	15	132597	1	#0	QPSK	5.09	13	PASS
Band66	15	132597	1	#0	16QAM	5.90	13	PASS
Band66	20	132072	1	#0	QPSK	5.24	13	PASS
Band66	20	132072	1	#0	16QAM	5.57	13	PASS
Band66	20	132322	1	#0	QPSK	5.14	13	PASS
Band66	20	132322	1	#0	16QAM	5.67	13	PASS
Band66	20	132572	1	#0	QPSK	4.91	13	PASS
Band66	20	132572	1	#0	16QAM	5.44	13	PASS

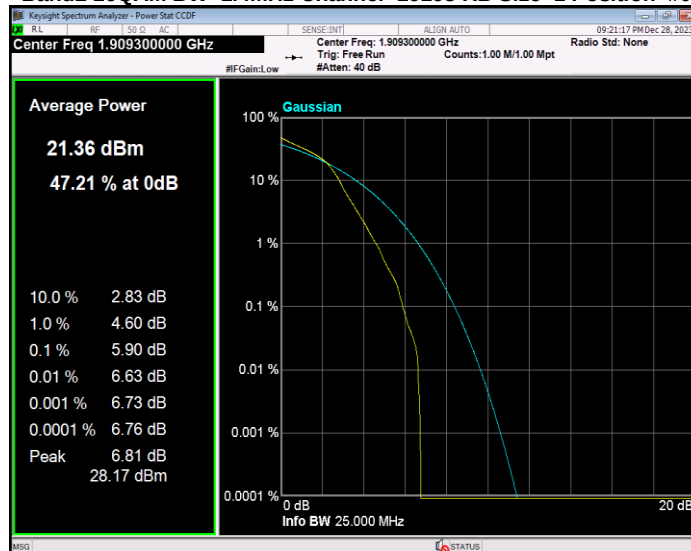
Band2 16QAM BW=1.4MHz Channel=18607 RB Size=1 Position=#0



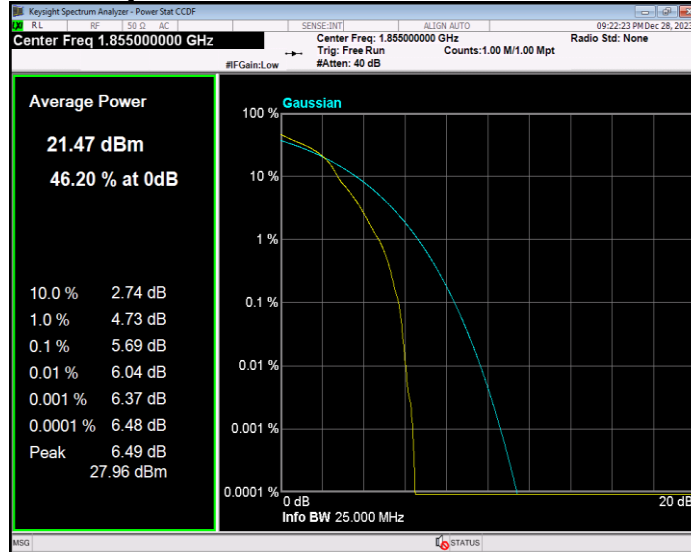
Band2 16QAM BW=1.4MHz Channel=18900 RB Size=1 Position=#0



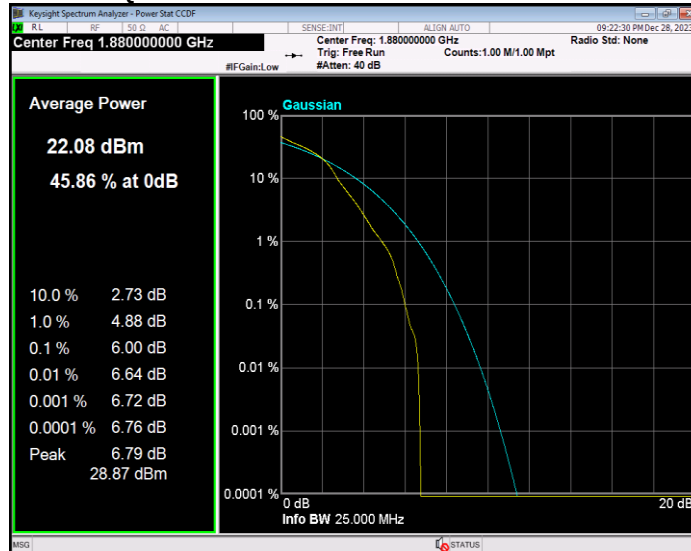
Band2 16QAM BW=1.4MHz Channel=19193 RB Size=1 Position=#0



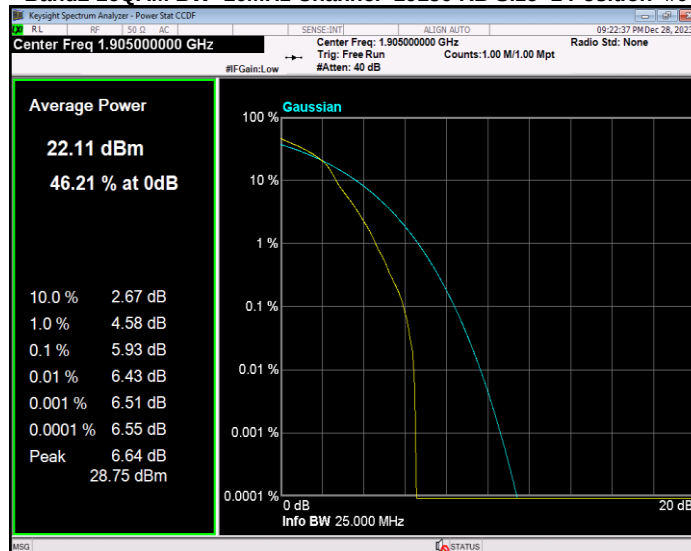
Band2 16QAM BW=10MHz Channel=18650 RB Size=1 Position=#0



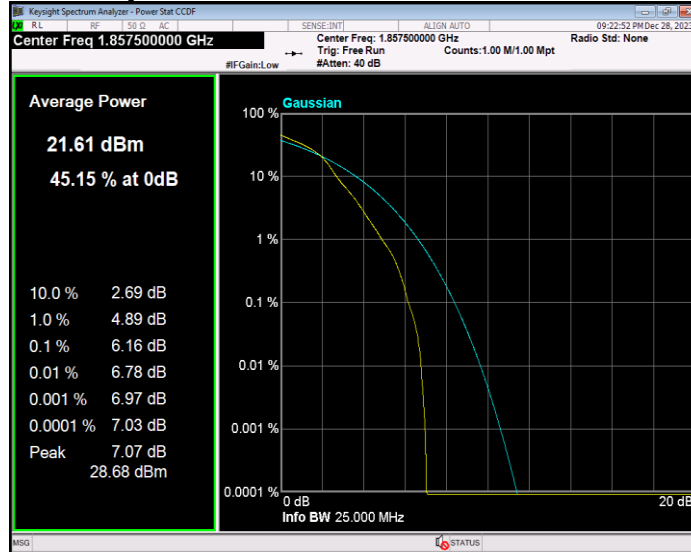
Band2 16QAM BW=10MHz Channel=18900 RB Size=1 Position=#0



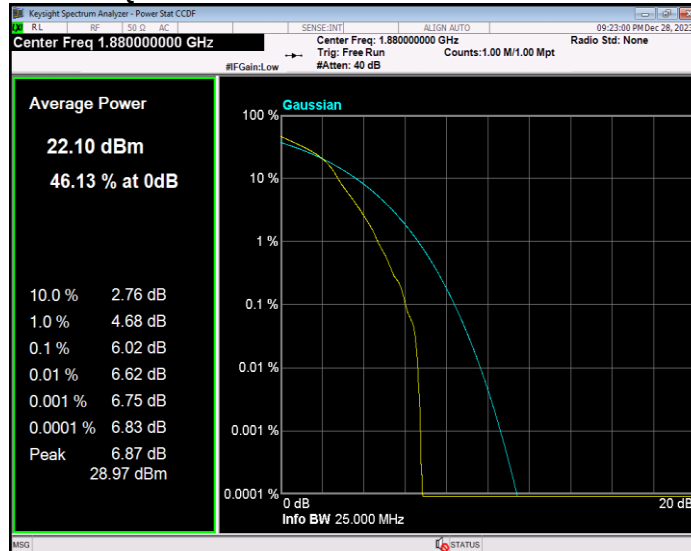
Band2 16QAM BW=10MHz Channel=19150 RB Size=1 Position=#0



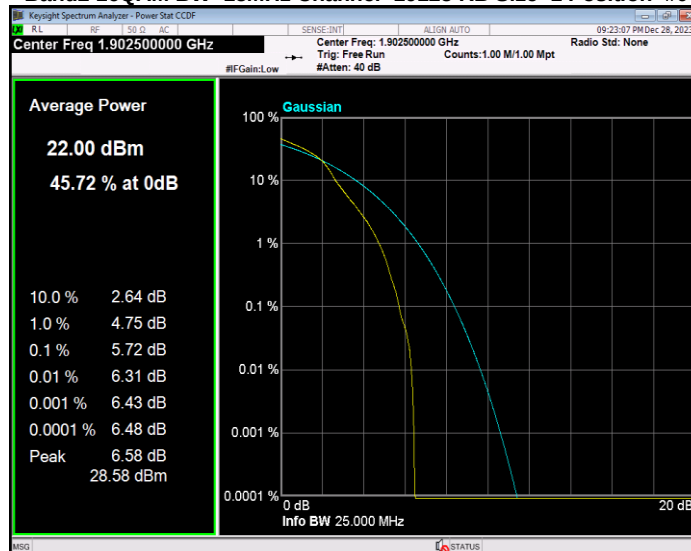
Band2 16QAM BW=15MHz Channel=18675 RB Size=1 Position=#0



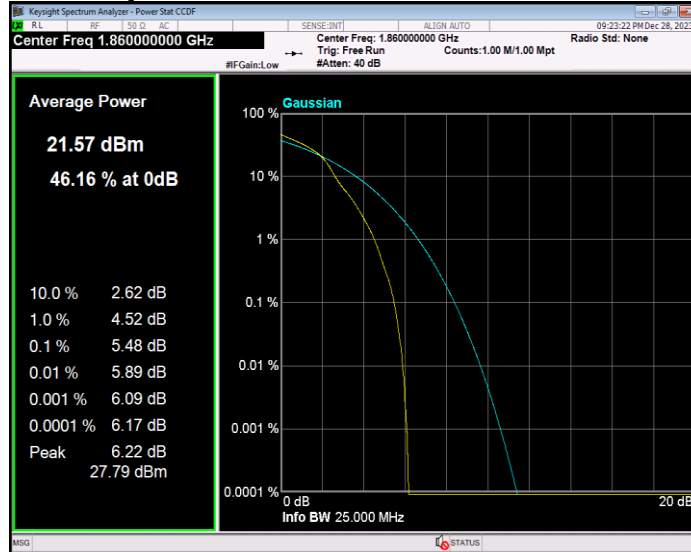
Band2 16QAM BW=15MHz Channel=18900 RB Size=1 Position=#0



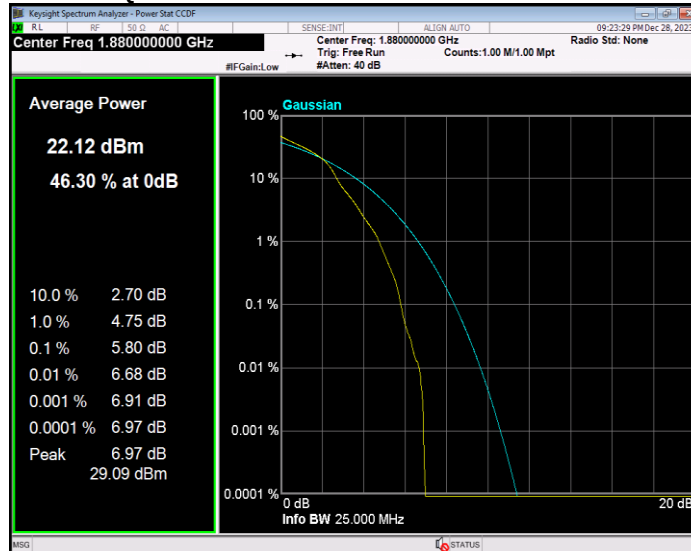
Band2 16QAM BW=15MHz Channel=19125 RB Size=1 Position=#0



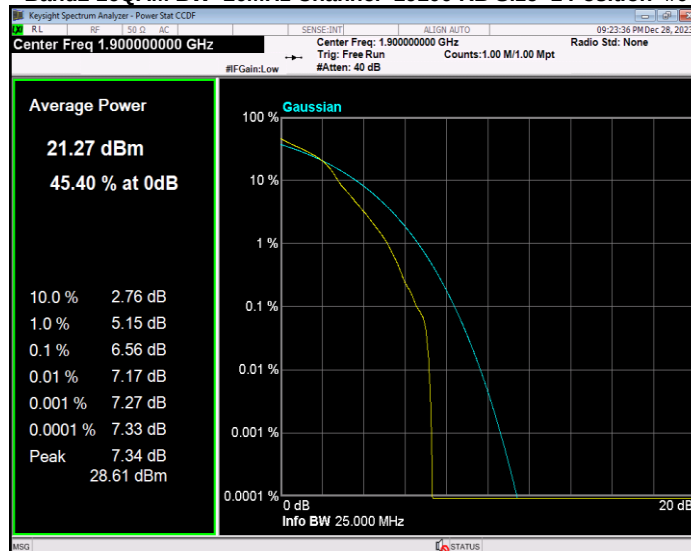
Band2 16QAM BW=20MHz Channel=18700 RB Size=1 Position=#0



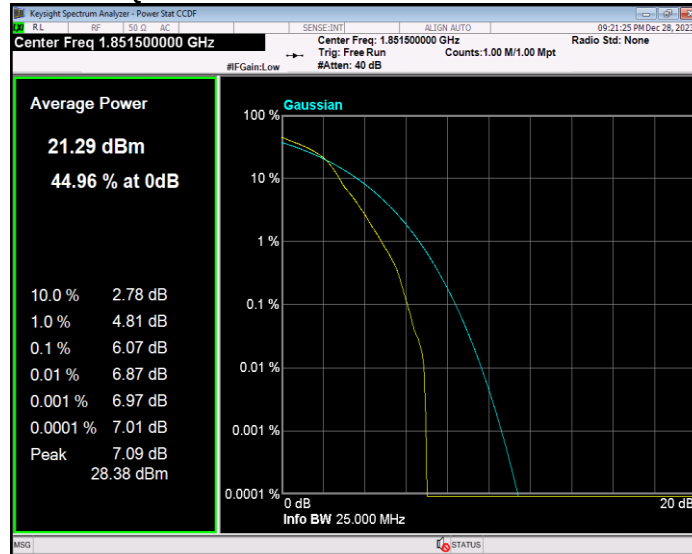
Band2 16QAM BW=20MHz Channel=18900 RB Size=1 Position=#0



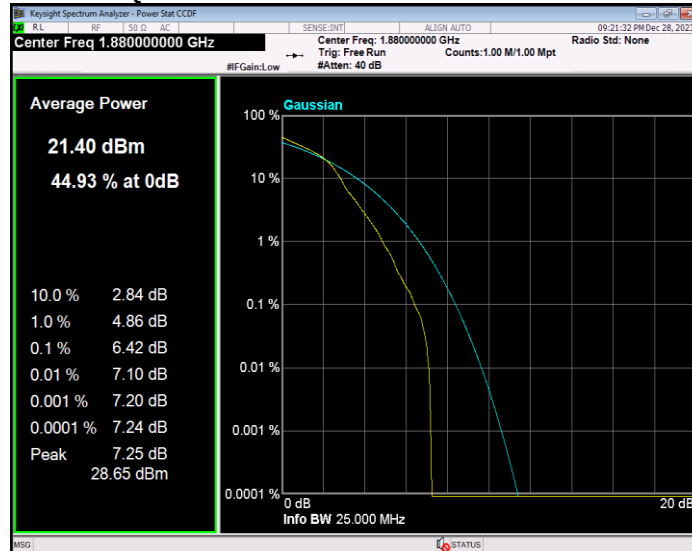
Band2 16QAM BW=20MHz Channel=19100 RB Size=1 Position=#0



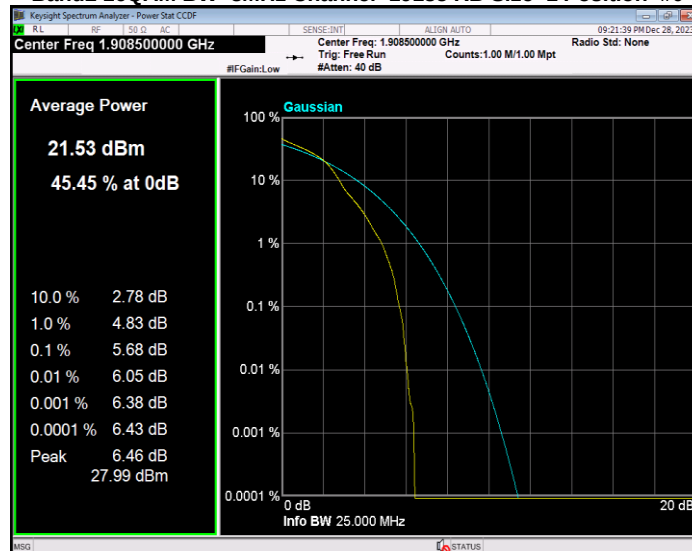
Band2 16QAM BW=3MHz Channel=18615 RB Size=1 Position=#0



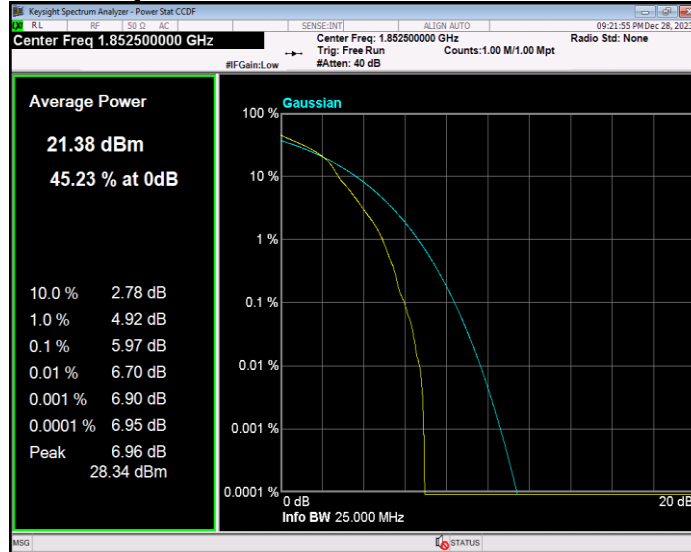
Band2 16QAM BW=3MHz Channel=18900 RB Size=1 Position=#0



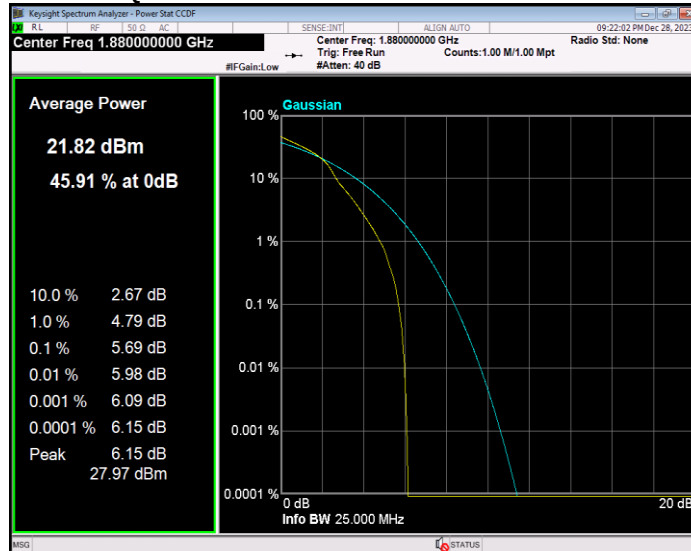
Band2 16QAM BW=3MHz Channel=19185 RB Size=1 Position=#0



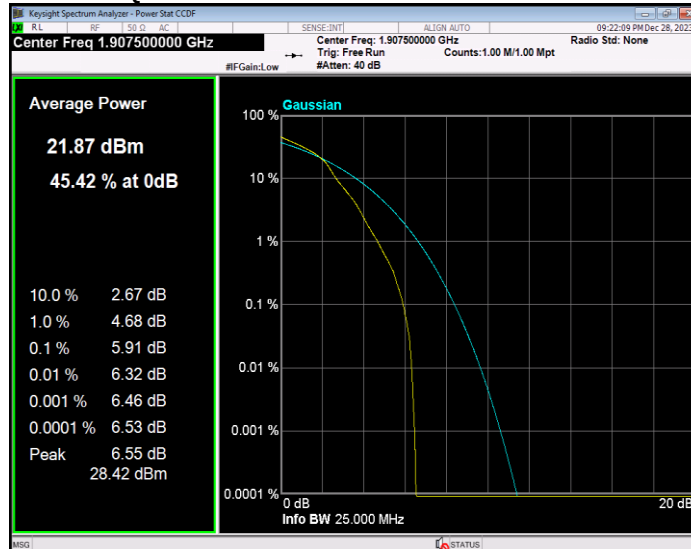
Band2 16QAM BW=5MHz Channel=18625 RB Size=1 Position=#0



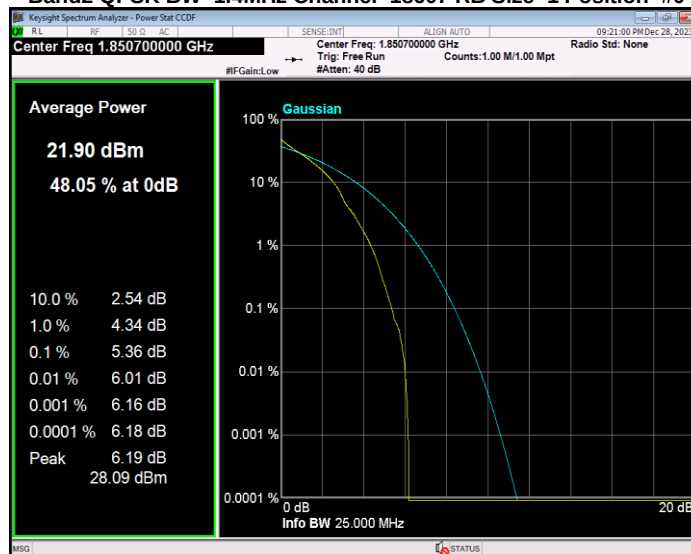
Band2 16QAM BW=5MHz Channel=18900 RB Size=1 Position=#0



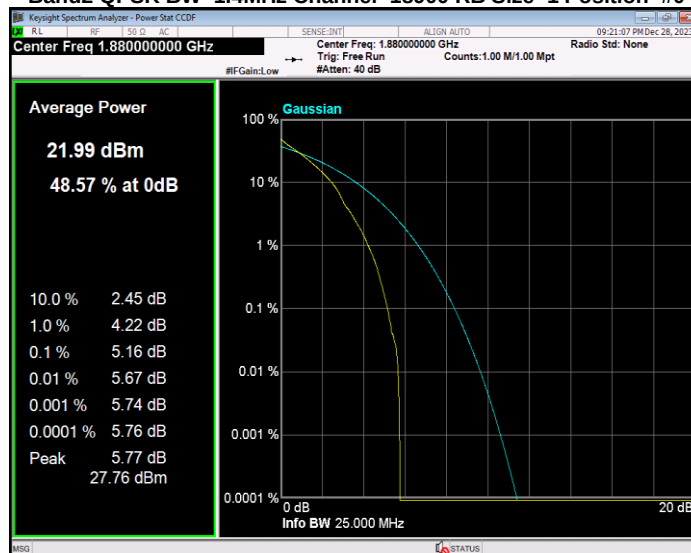
Band2 16QAM BW=5MHz Channel=19175 RB Size=1 Position=#0



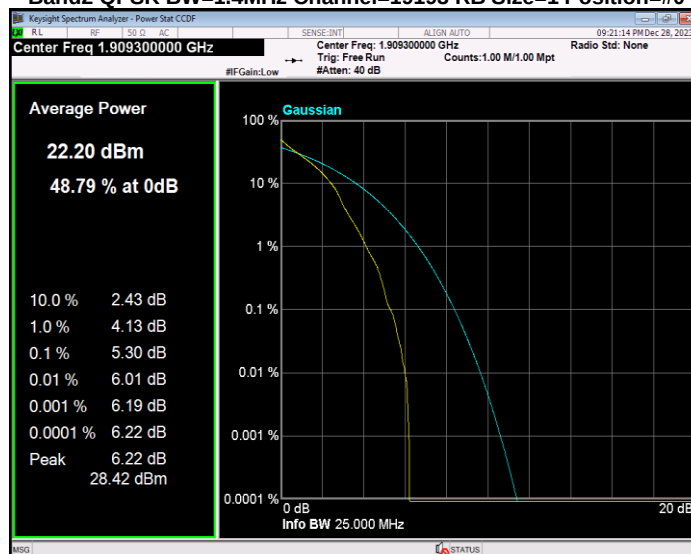
Band2 QPSK BW=1.4MHz Channel=18607 RB Size=1 Position=#0

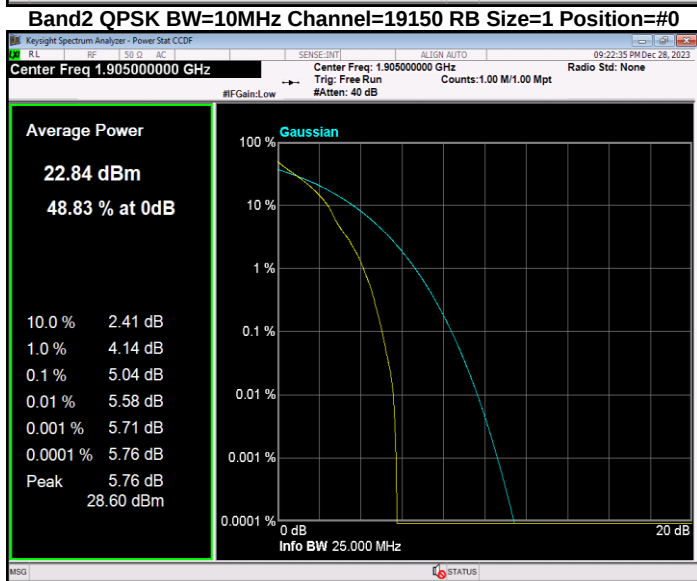
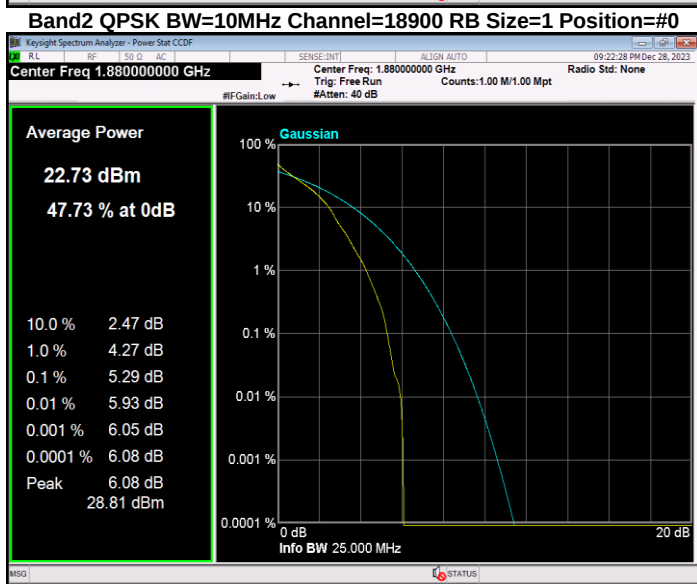
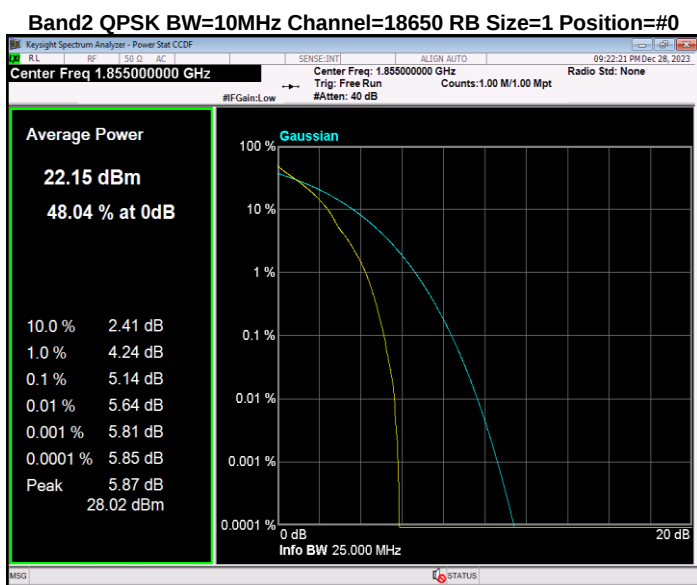


Band2 QPSK BW=1.4MHz Channel=18900 RB Size=1 Position=#0

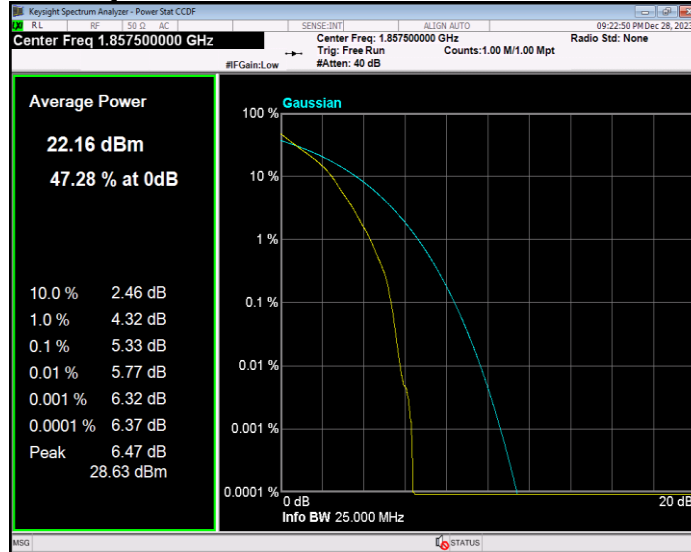


Band2 QPSK BW=1.4MHz Channel=19193 RB Size=1 Position=#0

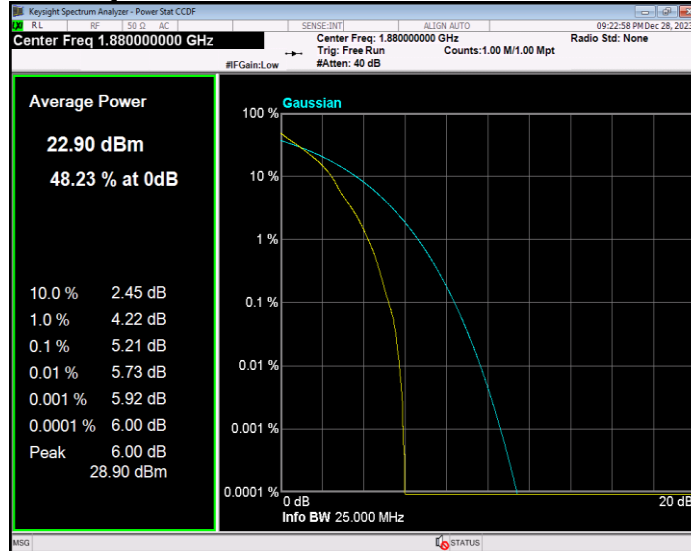




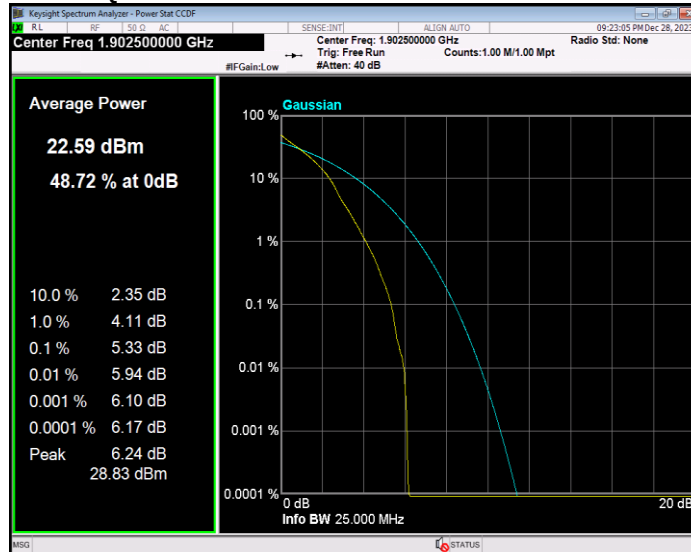
Band2 QPSK BW=15MHz Channel=18675 RB Size=1 Position=#0

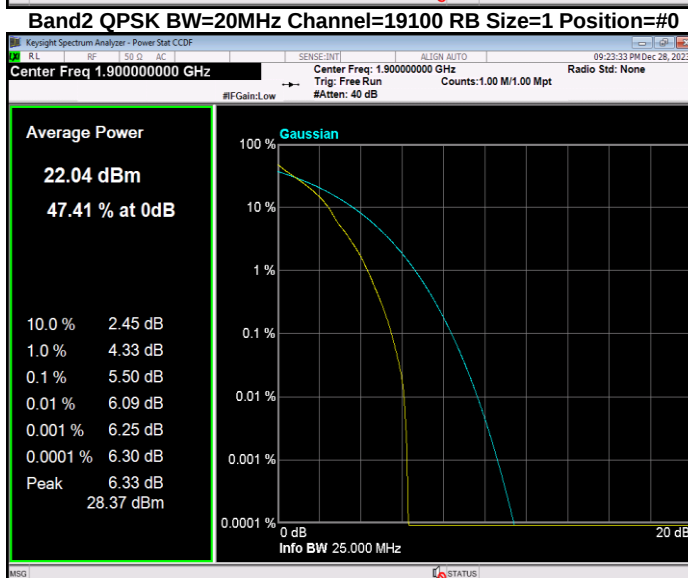
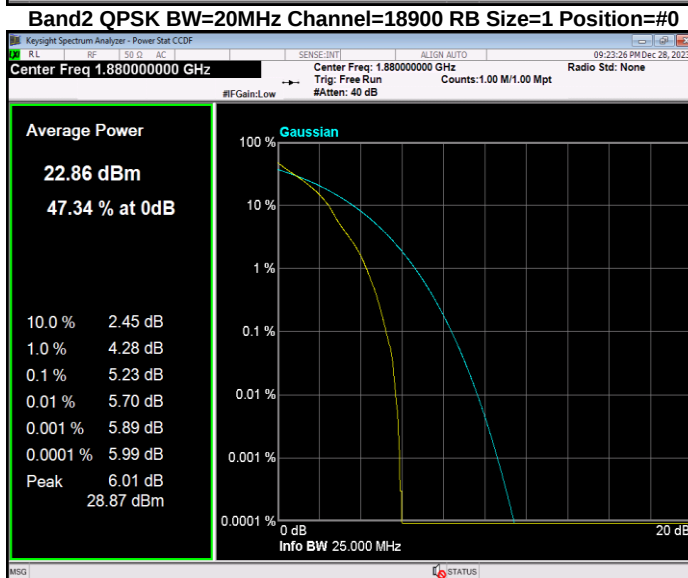
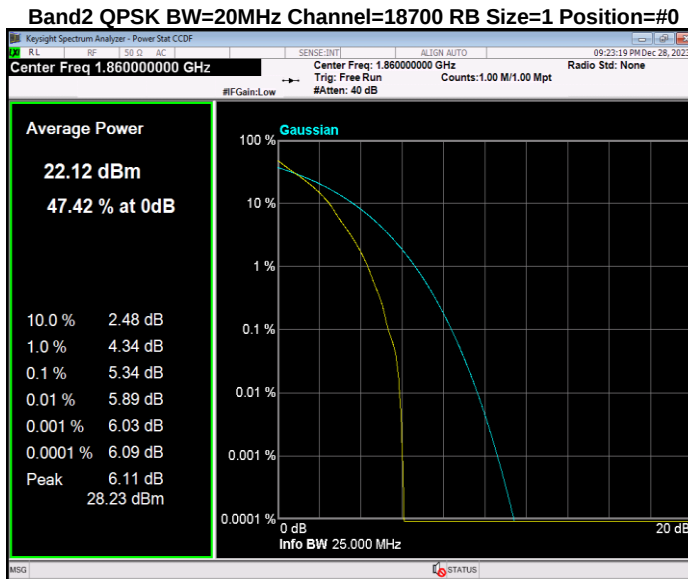


Band2 QPSK BW=15MHz Channel=18900 RB Size=1 Position=#0

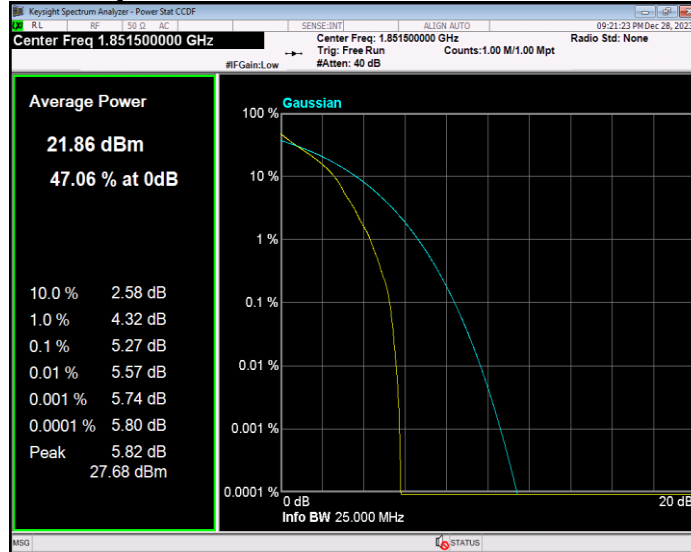


Band2 QPSK BW=15MHz Channel=19125 RB Size=1 Position=#0

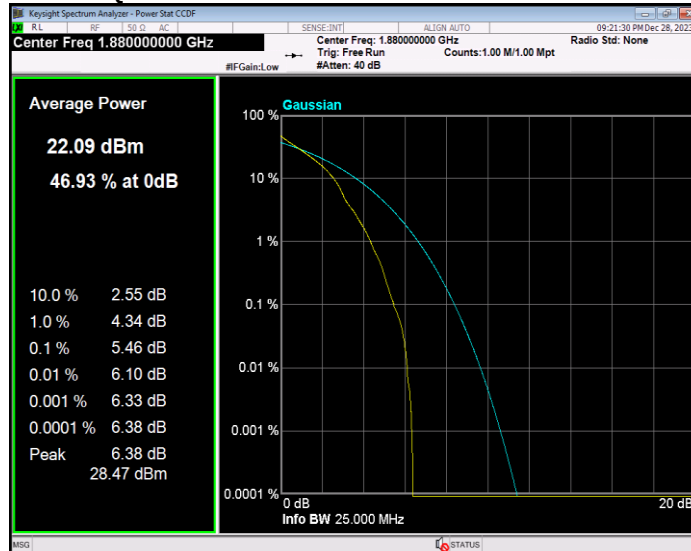




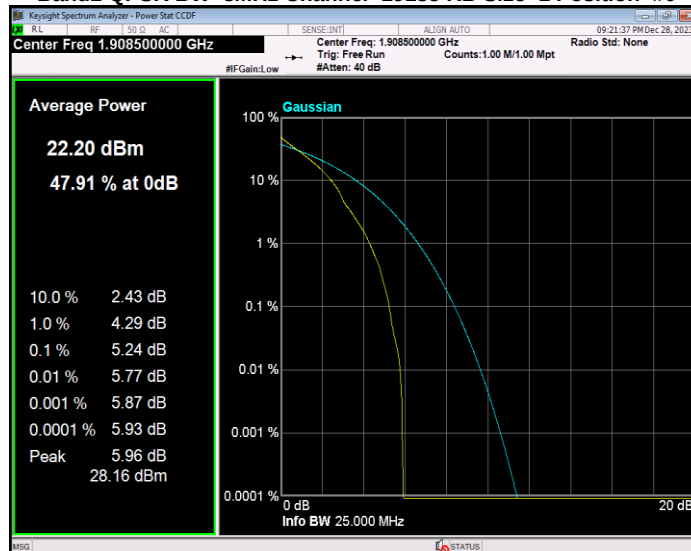
Band2 QPSK BW=3MHz Channel=18615 RB Size=1 Position=#0



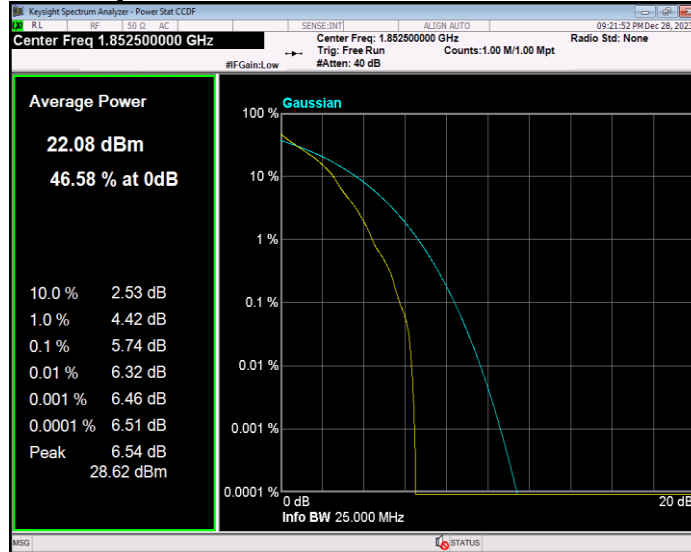
Band2 QPSK BW=3MHz Channel=18900 RB Size=1 Position=#0



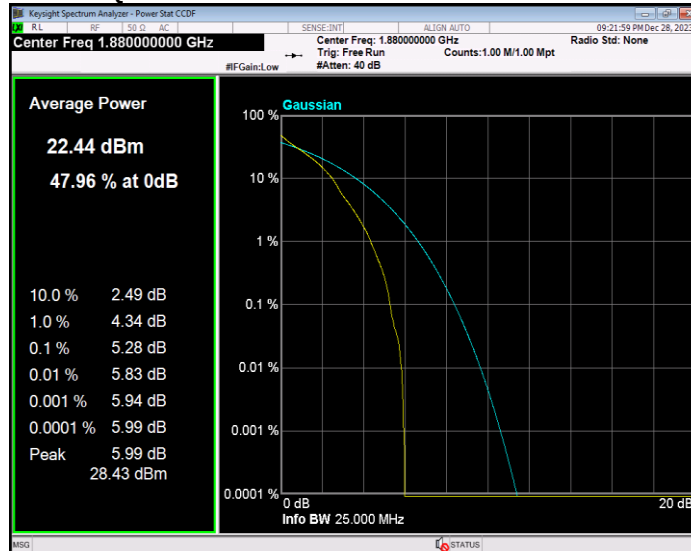
Band2 QPSK BW=3MHz Channel=19185 RB Size=1 Position=#0



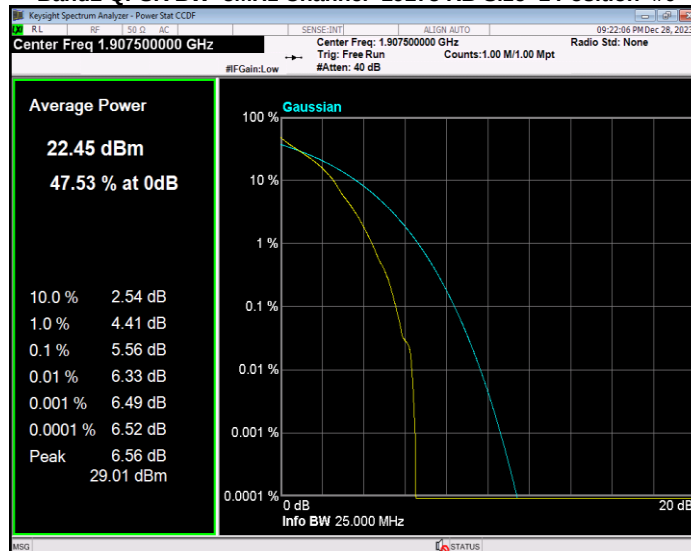
Band2 QPSK BW=5MHz Channel=18625 RB Size=1 Position=#0



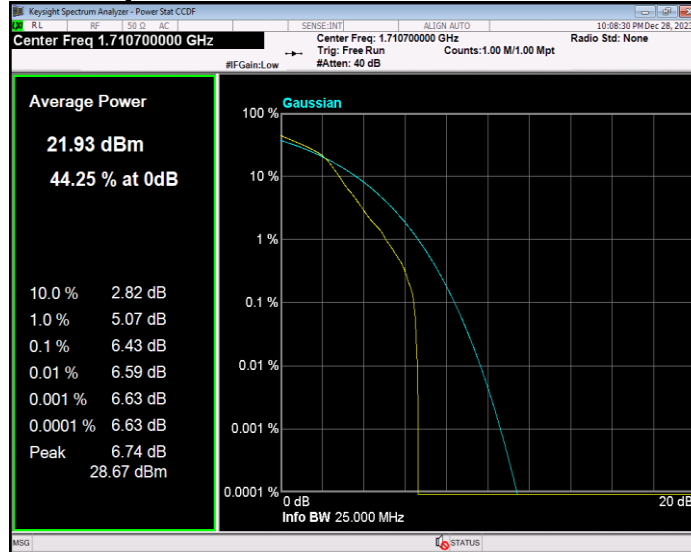
Band2 QPSK BW=5MHz Channel=18900 RB Size=1 Position=#0



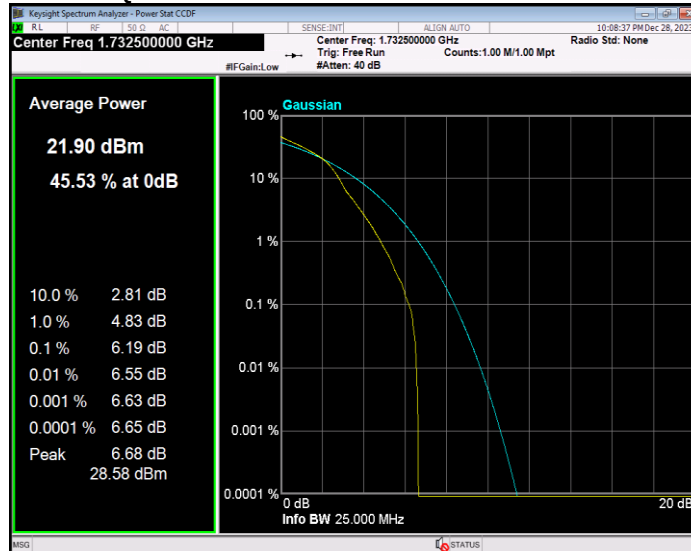
Band2 QPSK BW=5MHz Channel=19175 RB Size=1 Position=#0



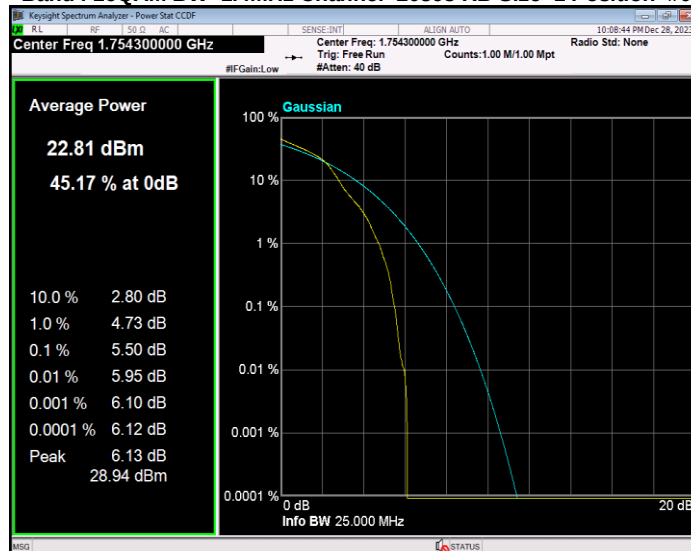
Band4 16QAM BW=1.4MHz Channel=19957 RB Size=1 Position=#0



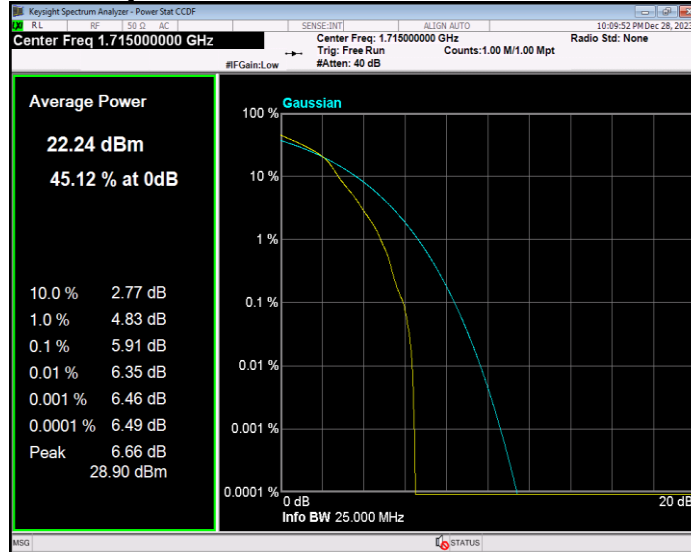
Band4 16QAM BW=1.4MHz Channel=20175 RB Size=1 Position=#0



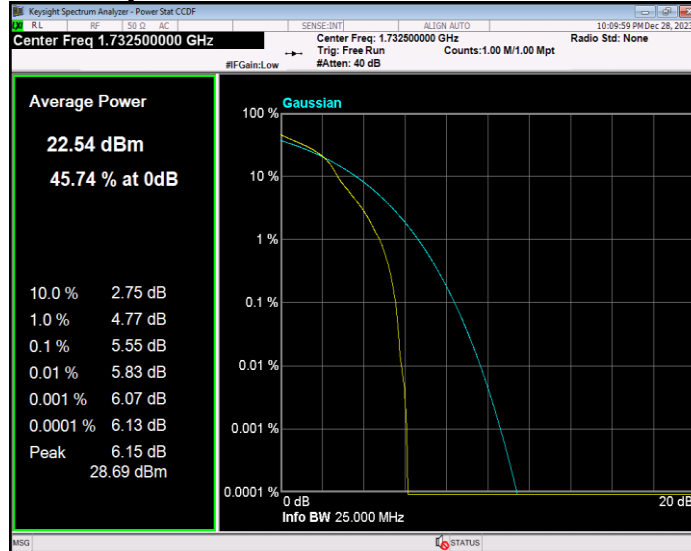
Band4 16QAM BW=1.4MHz Channel=20393 RB Size=1 Position=#0



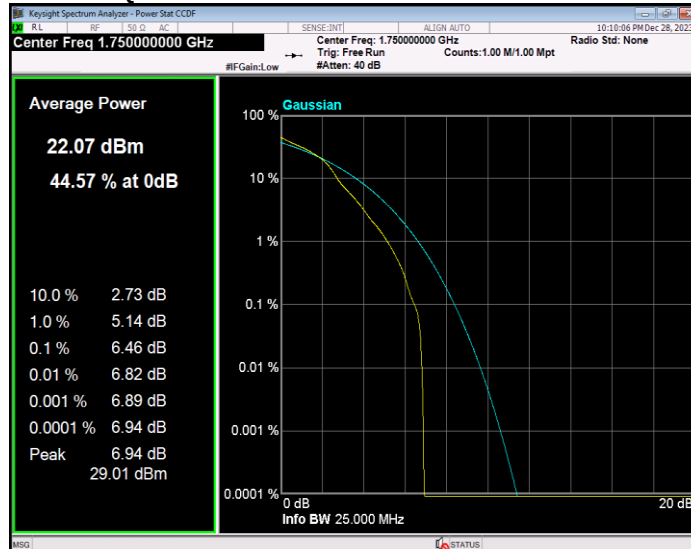
Band4 16QAM BW=10MHz Channel=20000 RB Size=1 Position=#0



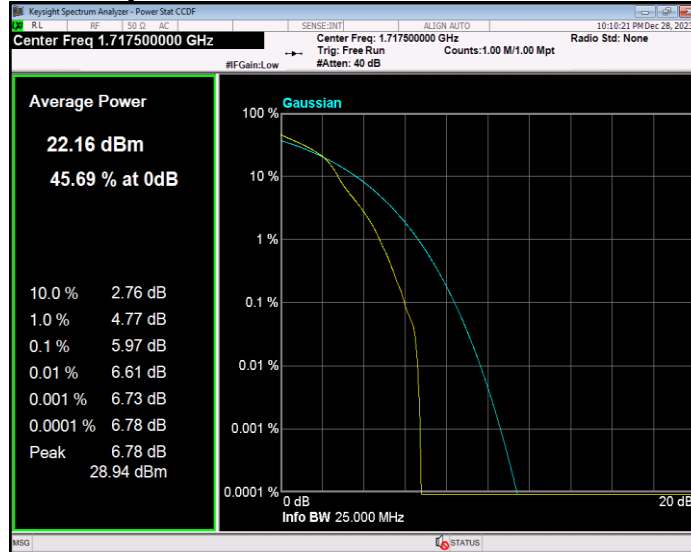
Band4 16QAM BW=10MHz Channel=20175 RB Size=1 Position=#0



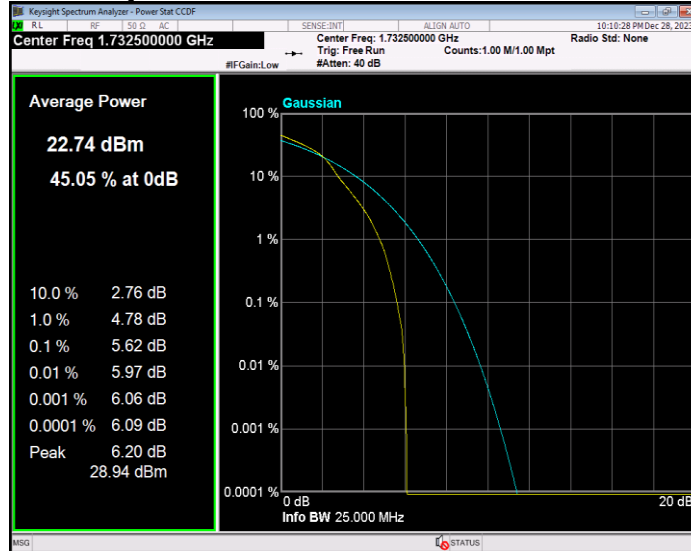
Band4 16QAM BW=10MHz Channel=20350 RB Size=1 Position=#0



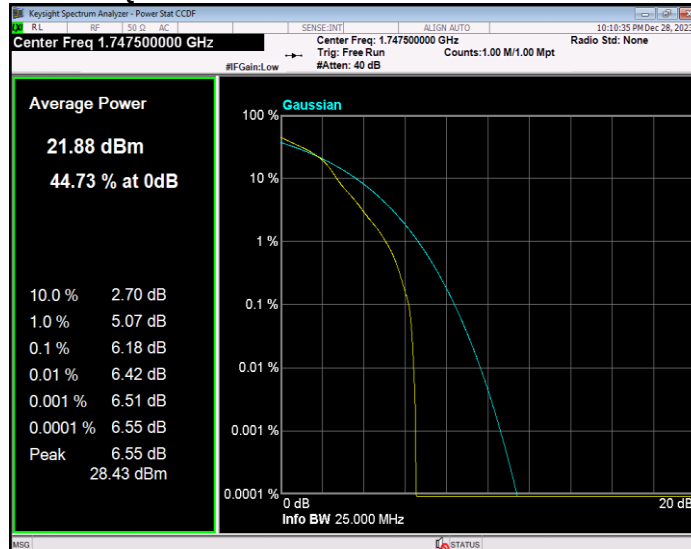
Band4 16QAM BW=15MHz Channel=20025 RB Size=1 Position=#0



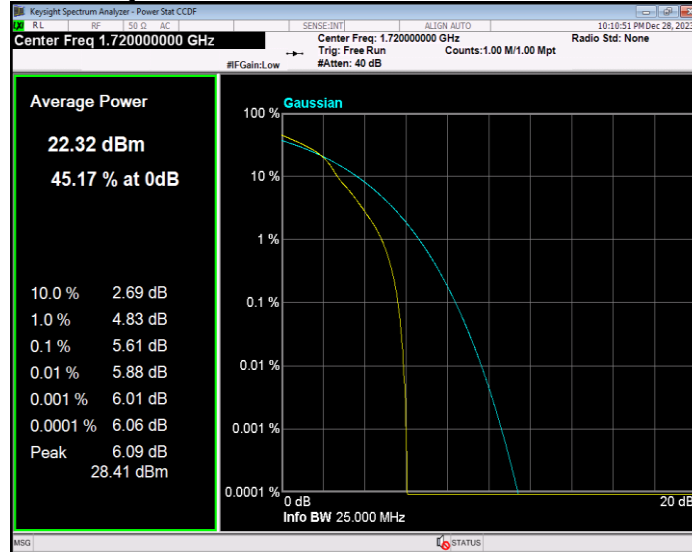
Band4 16QAM BW=15MHz Channel=20175 RB Size=1 Position=#0



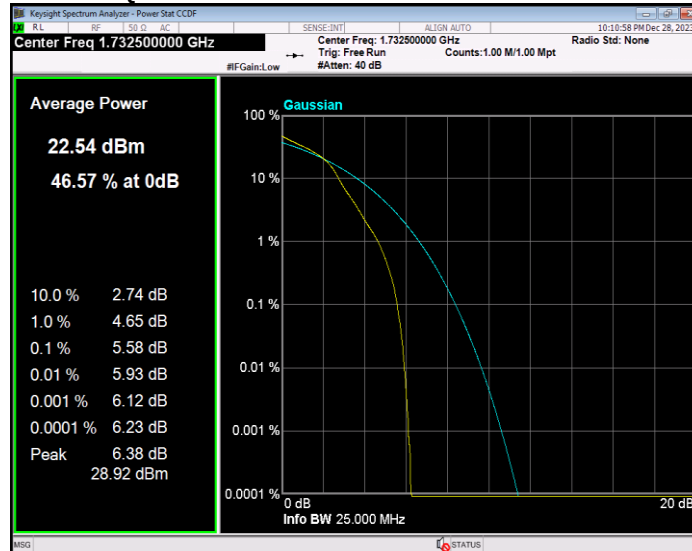
Band4 16QAM BW=15MHz Channel=20325 RB Size=1 Position=#0



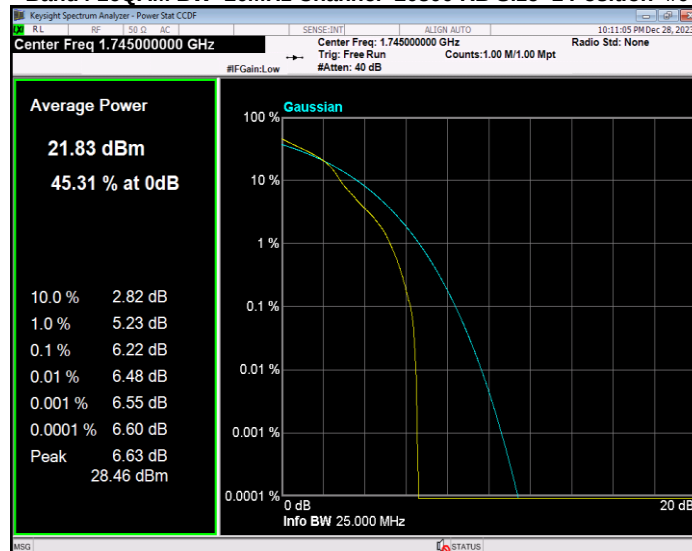
Band4 16QAM BW=20MHz Channel=20050 RB Size=1 Position=#0



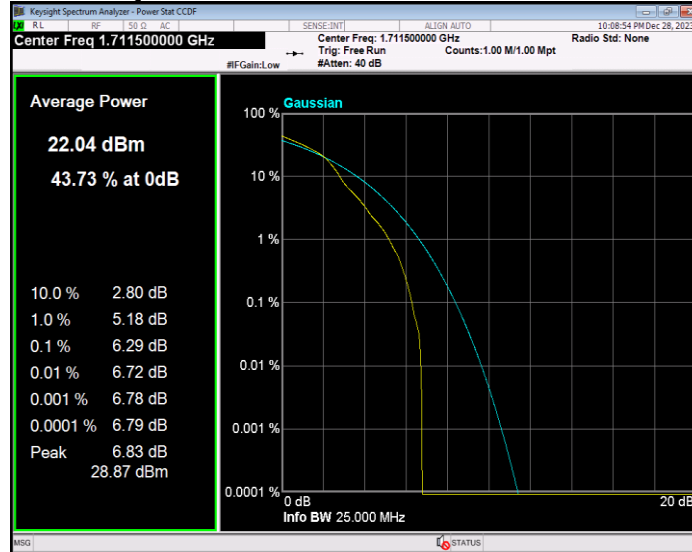
Band4 16QAM BW=20MHz Channel=20175 RB Size=1 Position=#0



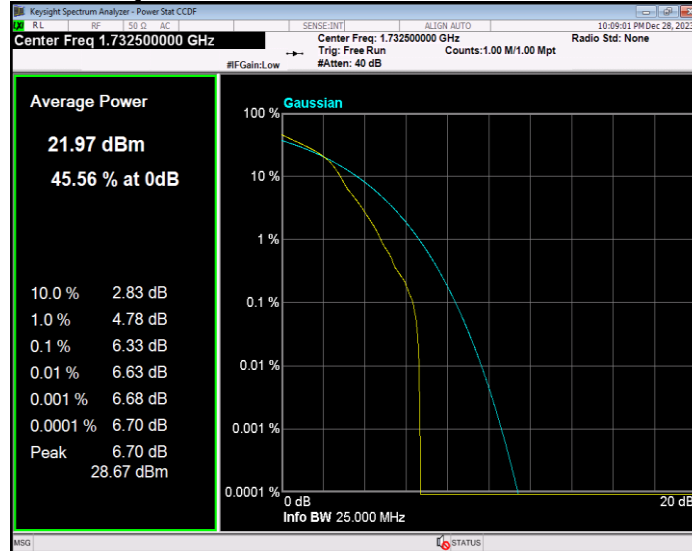
Band4 16QAM BW=20MHz Channel=20300 RB Size=1 Position=#0



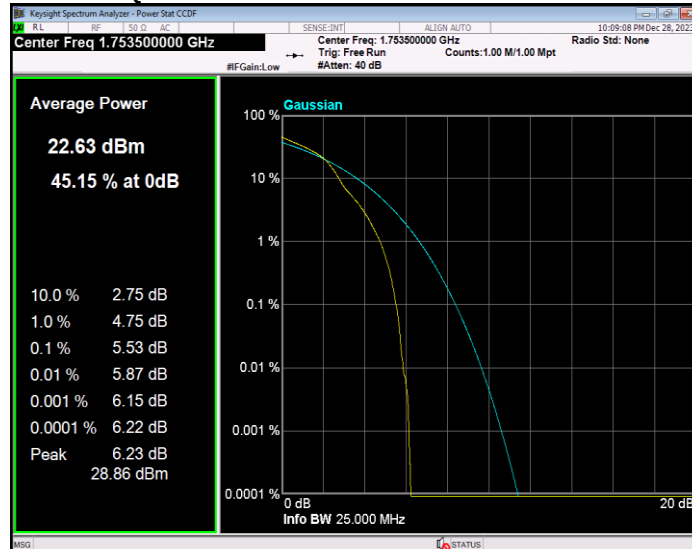
Band4 16QAM BW=3MHz Channel=19965 RB Size=1 Position=#0



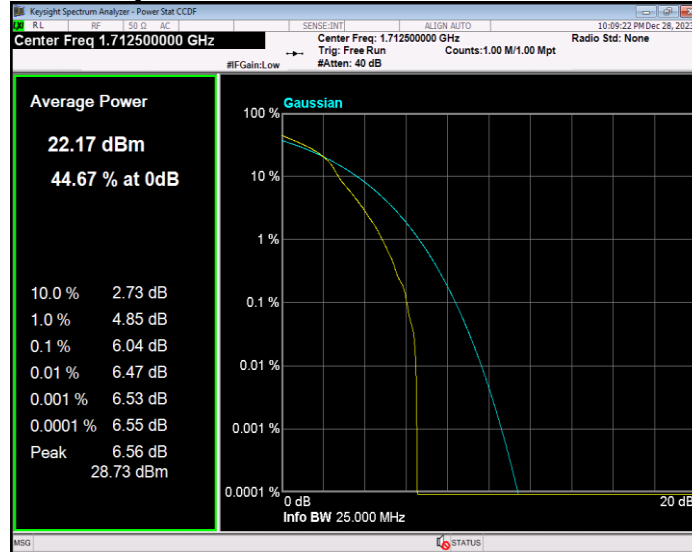
Band4 16QAM BW=3MHz Channel=20175 RB Size=1 Position=#0



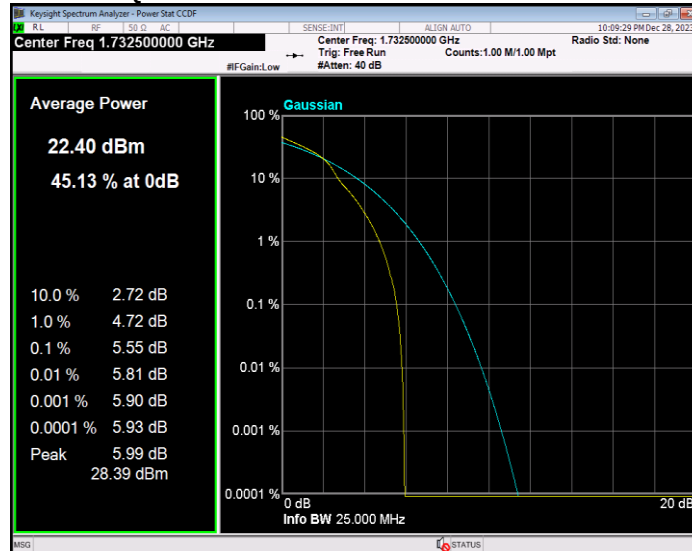
Band4 16QAM BW=3MHz Channel=20385 RB Size=1 Position=#0



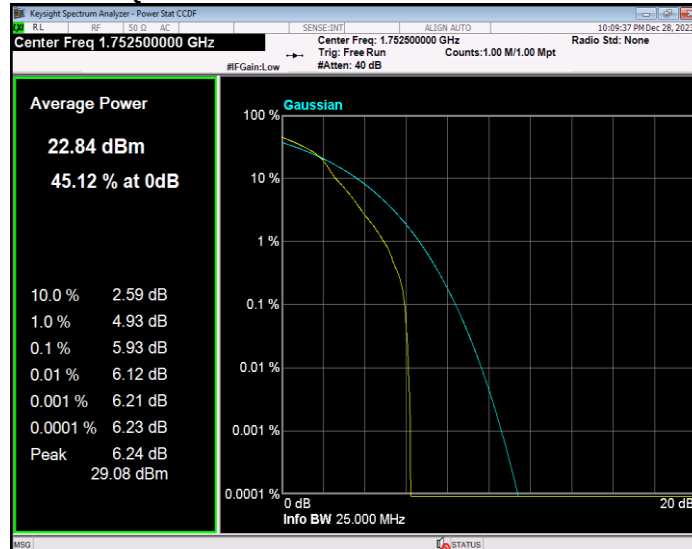
Band4 16QAM BW=5MHz Channel=19975 RB Size=1 Position=#0



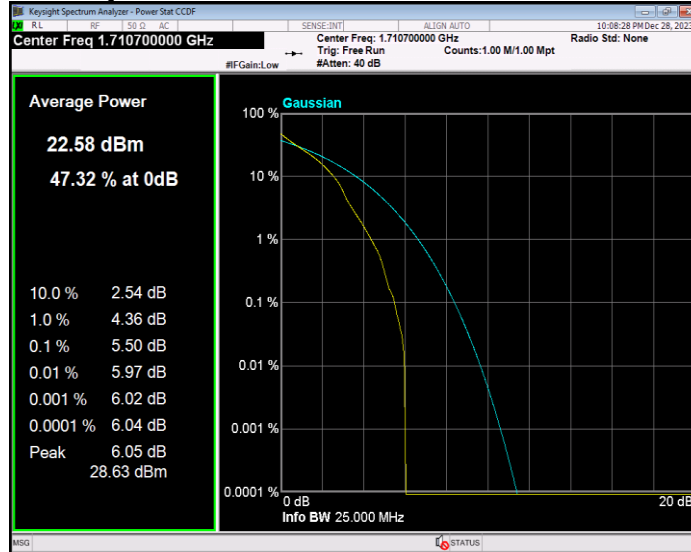
Band4 16QAM BW=5MHz Channel=20175 RB Size=1 Position=#0



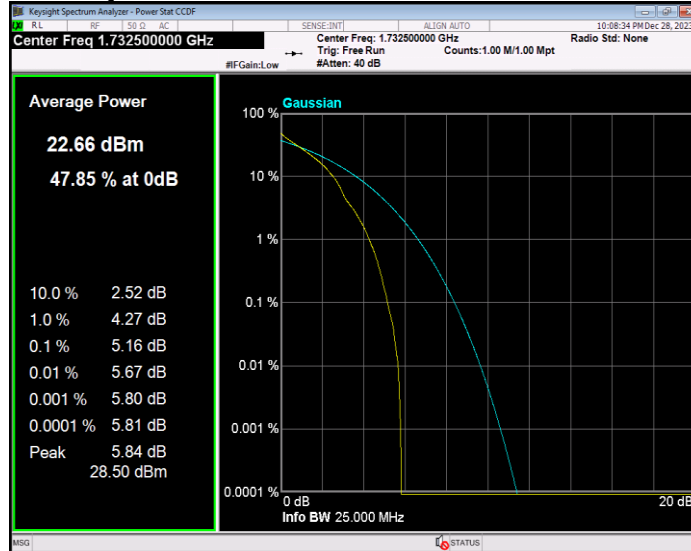
Band4 16QAM BW=5MHz Channel=20375 RB Size=1 Position=#0



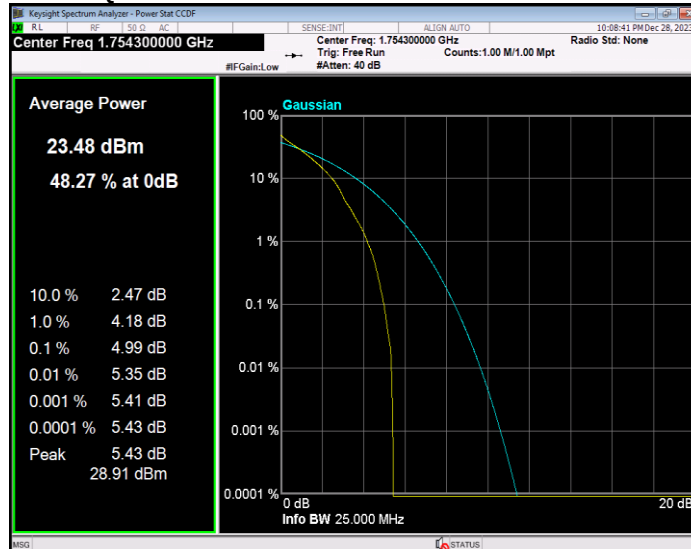
Band4 QPSK BW=1.4MHz Channel=19957 RB Size=1 Position=#0



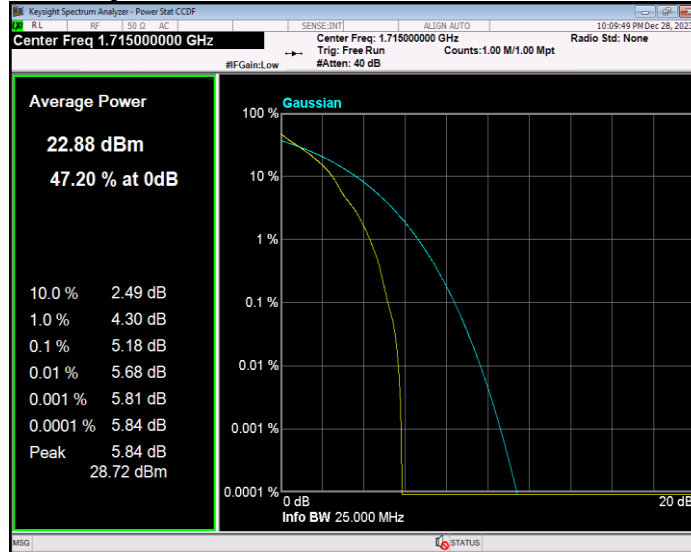
Band4 QPSK BW=1.4MHz Channel=20175 RB Size=1 Position=#0



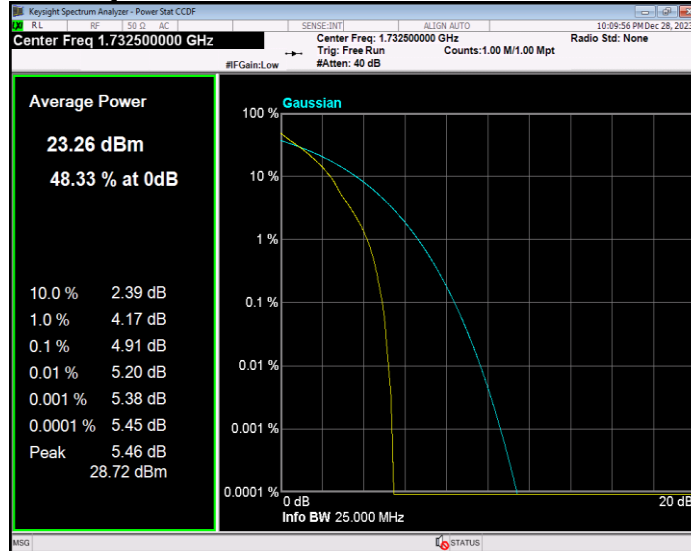
Band4 QPSK BW=1.4MHz Channel=20393 RB Size=1 Position=#0



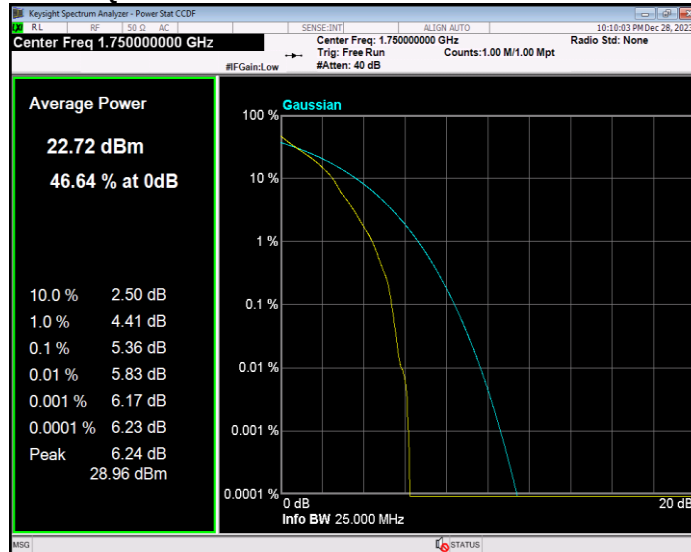
Band4 QPSK BW=10MHz Channel=20000 RB Size=1 Position=#0



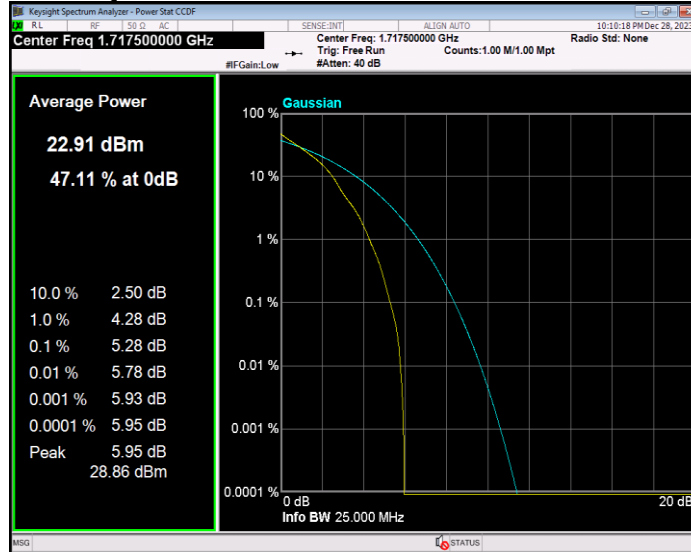
Band4 QPSK BW=10MHz Channel=20175 RB Size=1 Position=#0



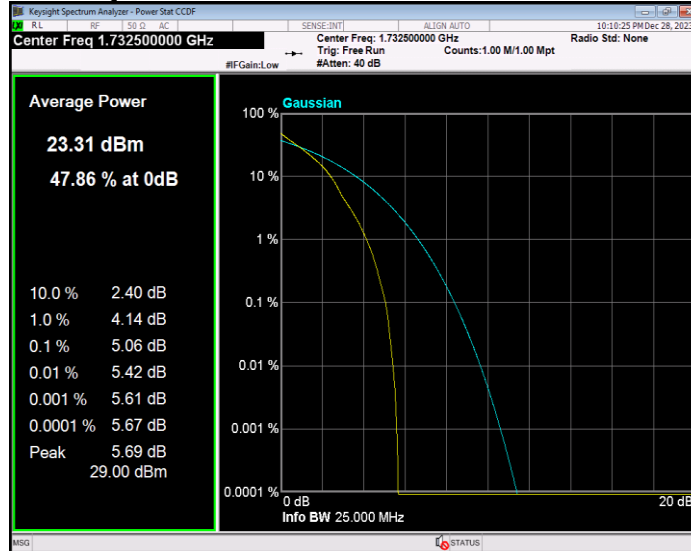
Band4 QPSK BW=10MHz Channel=20350 RB Size=1 Position=#0



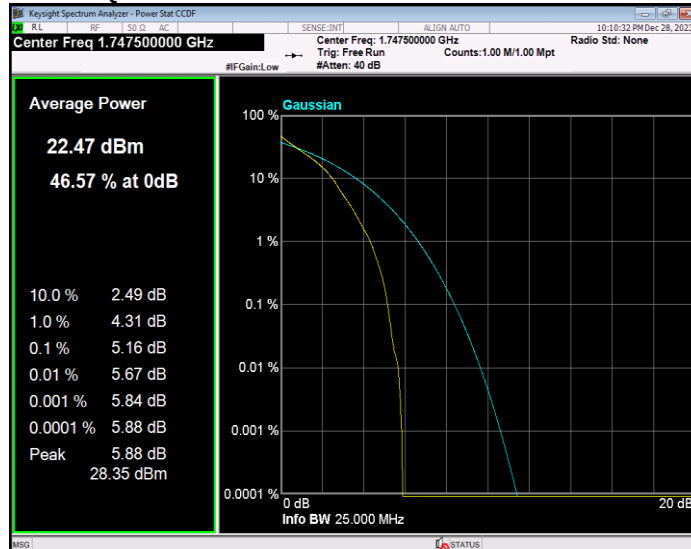
Band4 QPSK BW=15MHz Channel=20025 RB Size=1 Position=#0



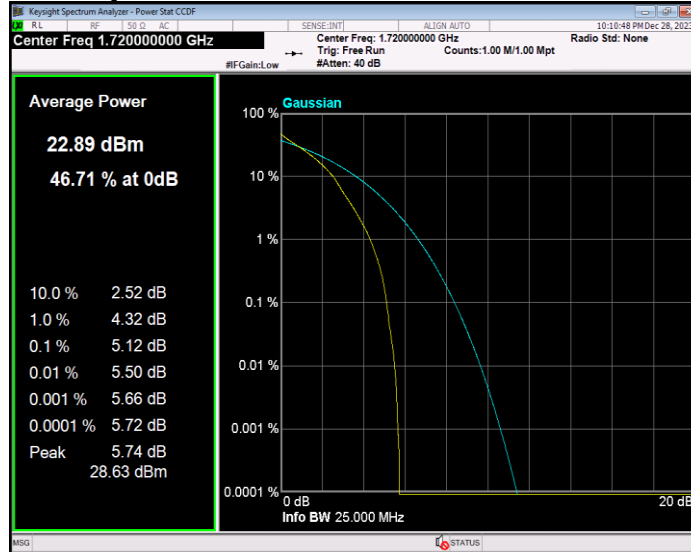
Band4 QPSK BW=15MHz Channel=20175 RB Size=1 Position=#0



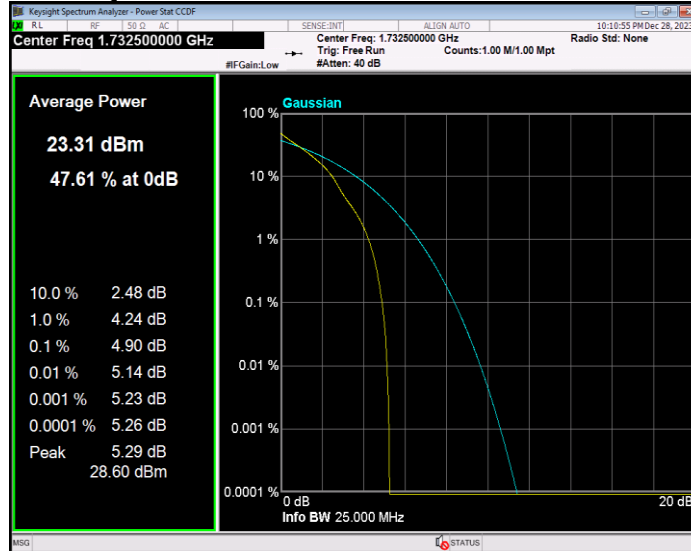
Band4 QPSK BW=15MHz Channel=20325 RB Size=1 Position=#0



Band4 QPSK BW=20MHz Channel=20050 RB Size=1 Position=#0



Band4 QPSK BW=20MHz Channel=20175 RB Size=1 Position=#0



Band4 QPSK BW=20MHz Channel=20300 RB Size=1 Position=#0

