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## 1 Conducted output power for EN-DC

<i>Band</i>	<i>SCS (kHz)</i>	<i>Bandwidth (MHz)</i>	<i>UL Channel</i>	<i>RB Allocation</i>	<i>Modulation</i>	<i>Power (dBm)</i>	<i>Low Limit (dBm)</i>	<i>high Limit (dBm)</i>	<i>Verdict</i>
Band4	30	5	19975	1@0	QPSK	8.37			
n38	30	10	515000	1@0	DFT_BPSK	23.13			
Sum	30					23.27	19	26	PASS
Band4	30	5	20175	8@0	QPSK	8.55			
n38	30	10	519000	12@6	DFT_BPSK	22.26			
Sum	30					22.44	19	26	PASS
Band4	30	5	20175	8@0	QPSK	8.64			
n38	30	10	519000	12@6	DFT_QPSK	23.25			
Sum	30					23.39	19	26	PASS
Band4	30	5	20375	1@17	QPSK	8.48			
n38	30	10	523000	1@23	DFT_BPSK	22.18			
Sum	30					22.36	19	26	PASS
Band4	30	5	20375	8@17	QPSK	9.03			
n38	30	10	523000	12@6	DFT_BPSK	23.20			
Sum	30					23.36	19	26	PASS
Band4	30	5	20375	1@17	QPSK	8.45			
n38	30	10	523000	1@23	DFT_QPSK	23.14			
Sum	30					23.28	19	26	PASS
Band4	30	5	20375	8@17	QPSK	9.04			
n38	30	10	523000	12@6	DFT_QPSK	23.24			
Sum	30					23.40	19	26	PASS
Band4	30	20	20050	1@0	QPSK	8.26			
n38	30	20	516000	1@0	DFT_BPSK	22.18			
Sum	30					22.35	19	26	PASS
Band4	30	20	20175	18@0	QPSK	8.51			
n38	30	20	519000	25@12	DFT_BPSK	23.19			
Sum	30					23.33	19	26	PASS
Band4	30	20	20175	18@0	QPSK	8.51			
n38	30	20	519000	25@12	DFT_QPSK	23.16			
Sum	30					23.30	19	26	PASS
Band4	30	20	20300	1@72	QPSK	9.08			
n38	30	20	522000	1@50	DFT_BPSK	22.12			
Sum	30					22.33	19	26	PASS
Band4	30	20	20300	18@72	QPSK	8.91			
n38	30	20	522000	25@12	DFT_BPSK	23.32			
Sum	30					23.47	19	26	PASS
Band4	30	20	20300	1@72	QPSK	9.10			
n38	30	20	522000	1@50	DFT_QPSK	23.16			
Sum	30					23.32	19	26	PASS

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Band4	30	20	20300	18@72	QPSK	8.90			
n38	30	20	522000	25@12	DFT_QPSK	23.30			
Sum	30					23.45	19	26	PASS

## 2 Frequency stability for EN-DC

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
n38	30	10	515000	12@6	DFT_BPSK	-4.06	-0.00158	-2.5	2.5	PASS
n38	30	10	515000	1@1	DFT_BPSK	-4.12	-0.00160	-2.5	2.5	PASS
n38	30	10	515000	1@22	DFT_BPSK	-5.46	-0.00212	-2.5	2.5	PASS
n38	30	10	515000	12@6	DFT_QPSK	-6.32	-0.00245	-2.5	2.5	PASS
n38	30	10	515000	1@1	DFT_QPSK	-6.41	-0.00249	-2.5	2.5	PASS
n38	30	10	515000	1@22	DFT_QPSK	-5.45	-0.00212	-2.5	2.5	PASS
n38	30	10	519000	12@6	DFT_BPSK	-1.24	-0.00048	-2.5	2.5	PASS
n38	30	10	519000	1@1	DFT_BPSK	-5.26	-0.00203	-2.5	2.5	PASS
n38	30	10	519000	1@22	DFT_BPSK	-4.16	-0.00160	-2.5	2.5	PASS
n38	30	10	519000	12@6	DFT_QPSK	-2.43	-0.00094	-2.5	2.5	PASS
n38	30	10	519000	1@1	DFT_QPSK	-2.80	-0.00108	-2.5	2.5	PASS
n38	30	10	519000	1@22	DFT_QPSK	-3.63	-0.00140	-2.5	2.5	PASS
n38	30	10	523000	12@6	DFT_BPSK	-6.23	-0.00238	-2.5	2.5	PASS
n38	30	10	523000	1@1	DFT_BPSK	-4.64	-0.00177	-2.5	2.5	PASS
n38	30	10	523000	1@22	DFT_BPSK	-3.49	-0.00133	-2.5	2.5	PASS
n38	30	10	523000	12@6	DFT_QPSK	-5.61	-0.00215	-2.5	2.5	PASS
n38	30	10	523000	1@1	DFT_QPSK	-7.23	-0.00276	-2.5	2.5	PASS
n38	30	10	523000	1@22	DFT_QPSK	-8.40	-0.00321	-2.5	2.5	PASS
n38	30	15	515500	18@9	DFT_BPSK	-3.64	-0.00141	-2.5	2.5	PASS
n38	30	15	515500	1@1	DFT_BPSK	-4.10	-0.00159	-2.5	2.5	PASS
n38	30	15	515500	1@36	DFT_BPSK	-4.06	-0.00158	-2.5	2.5	PASS
n38	30	15	515500	18@9	DFT_QPSK	-6.58	-0.00255	-2.5	2.5	PASS
n38	30	15	515500	1@1	DFT_QPSK	-8.05	-0.00312	-2.5	2.5	PASS
n38	30	15	515500	1@36	DFT_QPSK	-7.06	-0.00274	-2.5	2.5	PASS
n38	30	15	519000	18@9	DFT_BPSK	-3.41	-0.00131	-2.5	2.5	PASS
n38	30	15	519000	1@1	DFT_BPSK	-3.81	-0.00147	-2.5	2.5	PASS
n38	30	15	519000	1@36	DFT_BPSK	-2.75	-0.00106	-2.5	2.5	PASS
n38	30	15	519000	18@9	DFT_QPSK	-6.17	-0.00238	-2.5	2.5	PASS
n38	30	15	519000	1@1	DFT_QPSK	-8.48	-0.00327	-2.5	2.5	PASS
n38	30	15	519000	1@36	DFT_QPSK	-5.63	-0.00217	-2.5	2.5	PASS
n38	30	15	522500	18@9	DFT_BPSK	-5.66	-0.00217	-2.5	2.5	PASS
n38	30	15	522500	1@1	DFT_BPSK	-7.21	-0.00276	-2.5	2.5	PASS
n38	30	15	522500	1@36	DFT_BPSK	-6.45	-0.00247	-2.5	2.5	PASS
n38	30	15	522500	18@9	DFT_QPSK	-3.32	-0.00127	-2.5	2.5	PASS
n38	30	15	522500	1@1	DFT_QPSK	-3.24	-0.00124	-2.5	2.5	PASS
n38	30	15	522500	1@36	DFT_QPSK	-3.68	-0.00141	-2.5	2.5	PASS
n38	30	20	516000	25@12	DFT_BPSK	-7.28	-0.00282	-2.5	2.5	PASS
n38	30	20	516000	1@1	DFT_BPSK	-5.68	-0.00220	-2.5	2.5	PASS
n38	30	20	516000	1@49	DFT_BPSK	-6.56	-0.00254	-2.5	2.5	PASS

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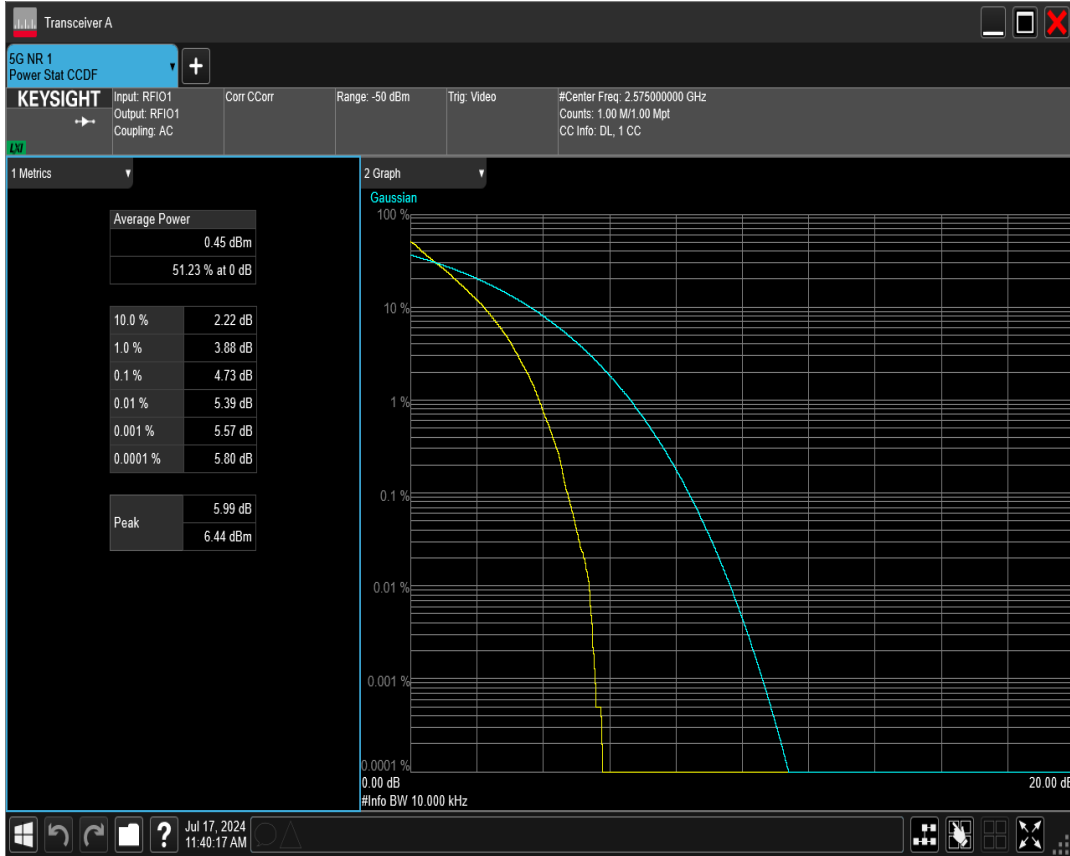
n38	30	20	516000	25@12	DFT_QPSK	-3.36	-0.00130	-2.5	2.5	PASS
n38	30	20	516000	1@1	DFT_QPSK	-1.92	-0.00074	-2.5	2.5	PASS
n38	30	20	516000	1@49	DFT_QPSK	-2.03	-0.00079	-2.5	2.5	PASS
n38	30	20	519000	25@12	DFT_BPSK	-0.75	-0.00029	-2.5	2.5	PASS
n38	30	20	519000	1@1	DFT_BPSK	-4.22	-0.00163	-2.5	2.5	PASS
n38	30	20	519000	1@49	DFT_BPSK	-3.42	-0.00132	-2.5	2.5	PASS
n38	30	20	519000	25@12	DFT_QPSK	-4.05	-0.00156	-2.5	2.5	PASS
n38	30	20	519000	1@1	DFT_QPSK	-4.44	-0.00171	-2.5	2.5	PASS
n38	30	20	519000	1@49	DFT_QPSK	-3.84	-0.00148	-2.5	2.5	PASS
n38	30	20	522000	25@12	DFT_BPSK	-5.25	-0.00201	-2.5	2.5	PASS
n38	30	20	522000	1@1	DFT_BPSK	-2.56	-0.00098	-2.5	2.5	PASS
n38	30	20	522000	1@49	DFT_BPSK	-2.71	-0.00104	-2.5	2.5	PASS
n38	30	20	522000	25@12	DFT_QPSK	-4.20	-0.00161	-2.5	2.5	PASS
n38	30	20	522000	1@1	DFT_QPSK	-1.71	-0.00066	-2.5	2.5	PASS
n38	30	20	522000	1@49	DFT_QPSK	-2.86	-0.00110	-2.5	2.5	PASS

### 3 Peak-to-Average Ratio for EN-DC

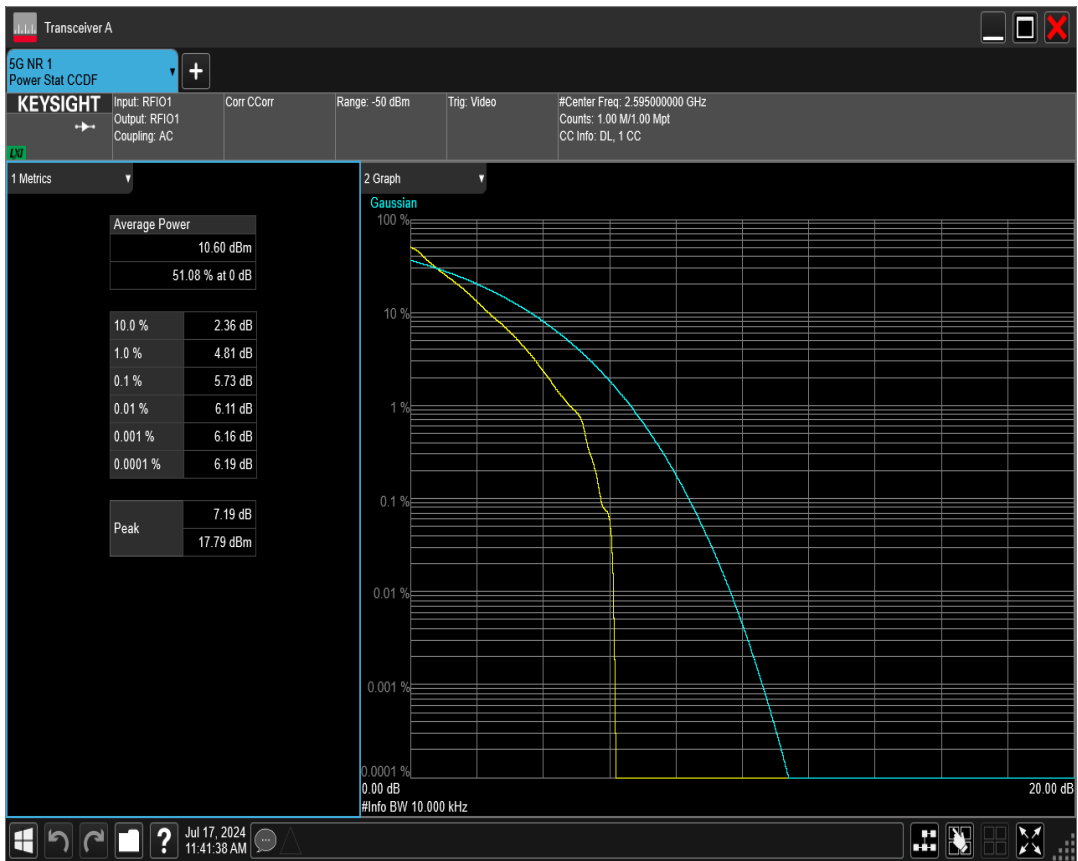
<i>Band</i>	<i>SCS (kHz)</i>	<i>Bandwidth (MHz)</i>	<i>UL Channel</i>	<i>RB Allocation</i>	<i>Modulation</i>	<i>Result (dB)</i>	<i>high Limit (dB)</i>	<i>Verdict</i>
n38	30	10	515000	24@0	DFT_BPSK	4.73	13	PASS
n38	30	10	515000	24@0	DFT_QPSK	6.06	13	PASS
n38	30	10	515000	24@0	DFT_QAM16	6.75	13	PASS
n38	30	10	515000	24@0	DFT_QAM64	6.73	13	PASS
n38	30	10	515000	24@0	DFT_QAM256	6.97	13	PASS
n38	30	10	519000	24@0	DFT_BPSK	5.73	13	PASS
n38	30	10	519000	24@0	DFT_QPSK	6.28	13	PASS
n38	30	10	519000	24@0	DFT_QAM16	6.80	13	PASS
n38	30	10	519000	24@0	DFT_QAM64	6.69	13	PASS
n38	30	10	519000	24@0	DFT_QAM256	6.83	13	PASS
n38	30	10	523000	24@0	DFT_BPSK	4.74	13	PASS
n38	30	10	523000	24@0	DFT_QPSK	6.21	13	PASS
n38	30	10	523000	24@0	DFT_QAM16	6.74	13	PASS
n38	30	10	523000	24@0	DFT_QAM64	6.90	13	PASS
n38	30	10	523000	24@0	DFT_QAM256	6.67	13	PASS
n38	30	15	515500	36@0	DFT_BPSK	4.72	13	PASS
n38	30	15	515500	36@0	DFT_QPSK	6.09	13	PASS
n38	30	15	515500	36@0	DFT_QAM16	6.57	13	PASS
n38	30	15	515500	36@0	DFT_QAM64	6.74	13	PASS
n38	30	15	515500	36@0	DFT_QAM256	6.94	13	PASS
n38	30	15	519000	36@0	DFT_BPSK	4.92	13	PASS
n38	30	15	519000	36@0	DFT_QPSK	6.00	13	PASS
n38	30	15	519000	36@0	DFT_QAM16	6.73	13	PASS
n38	30	15	519000	36@0	DFT_QAM64	6.97	13	PASS
n38	30	15	519000	36@0	DFT_QAM256	6.79	13	PASS
n38	30	15	522500	36@0	DFT_BPSK	4.76	13	PASS
n38	30	15	522500	36@0	DFT_QPSK	5.96	13	PASS
n38	30	15	522500	36@0	DFT_QAM16	6.57	13	PASS
n38	30	15	522500	36@0	DFT_QAM64	6.77	13	PASS
n38	30	15	522500	36@0	DFT_QAM256	6.96	13	PASS
n38	30	20	516000	50@0	DFT_BPSK	4.75	13	PASS
n38	30	20	516000	50@0	DFT_QPSK	6.06	13	PASS
n38	30	20	516000	50@0	DFT_QAM16	6.77	13	PASS
n38	30	20	516000	50@0	DFT_QAM64	6.91	13	PASS
n38	30	20	516000	50@0	DFT_QAM256	6.69	13	PASS
n38	30	20	519000	50@0	DFT_BPSK	5.54	13	PASS
n38	30	20	519000	50@0	DFT_QPSK	6.04	13	PASS
n38	30	20	519000	50@0	DFT_QAM16	6.34	13	PASS
n38	30	20	519000	50@0	DFT_QAM64	6.71	13	PASS
n38	30	20	519000	50@0	DFT_QAM256	6.90	13	PASS

n38	30	20	522000	50@0	DFT_BPSK	4.93	13	PASS
n38	30	20	522000	50@0	DFT_QPSK	6.06	13	PASS
n38	30	20	522000	50@0	DFT_QAM16	6.77	13	PASS
n38	30	20	522000	50@0	DFT_QAM64	6.69	13	PASS
n38	30	20	522000	50@0	DFT_QAM256	7.06	13	PASS

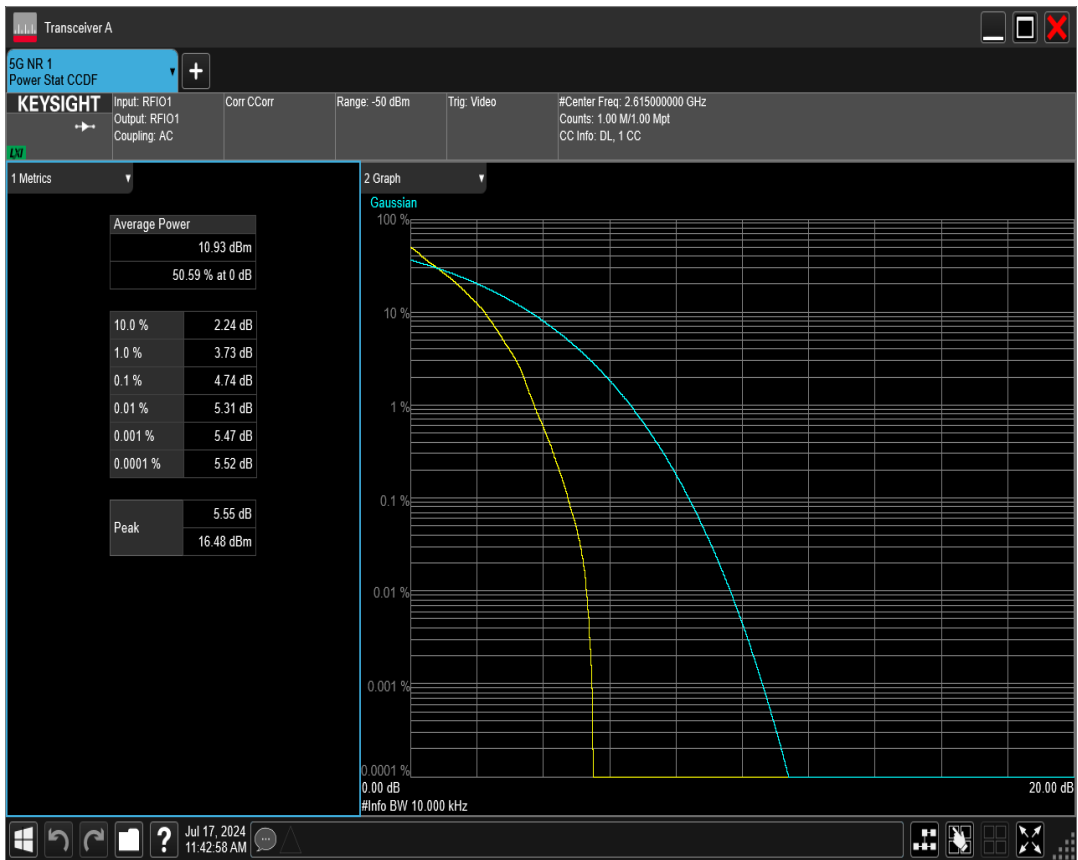
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**n38 SCS=30kHz DFT\_BPSK BW=10MHz Channel=519000 RB=24@0**

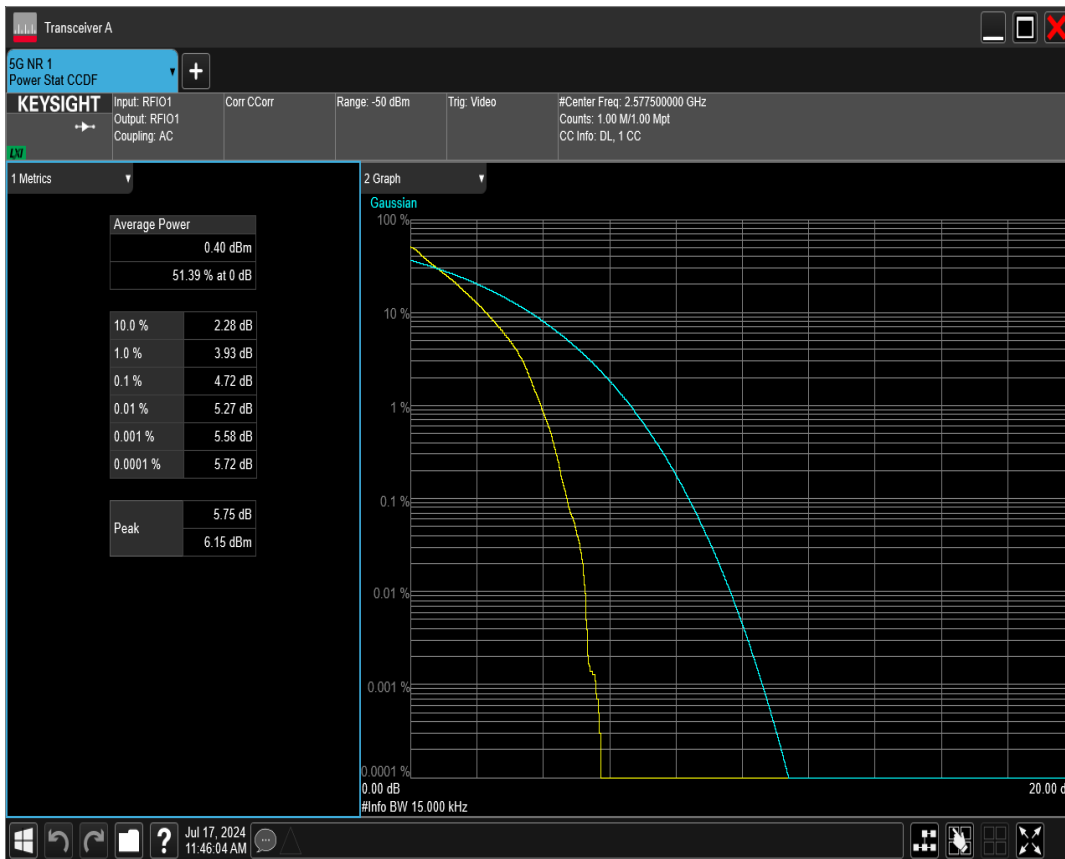


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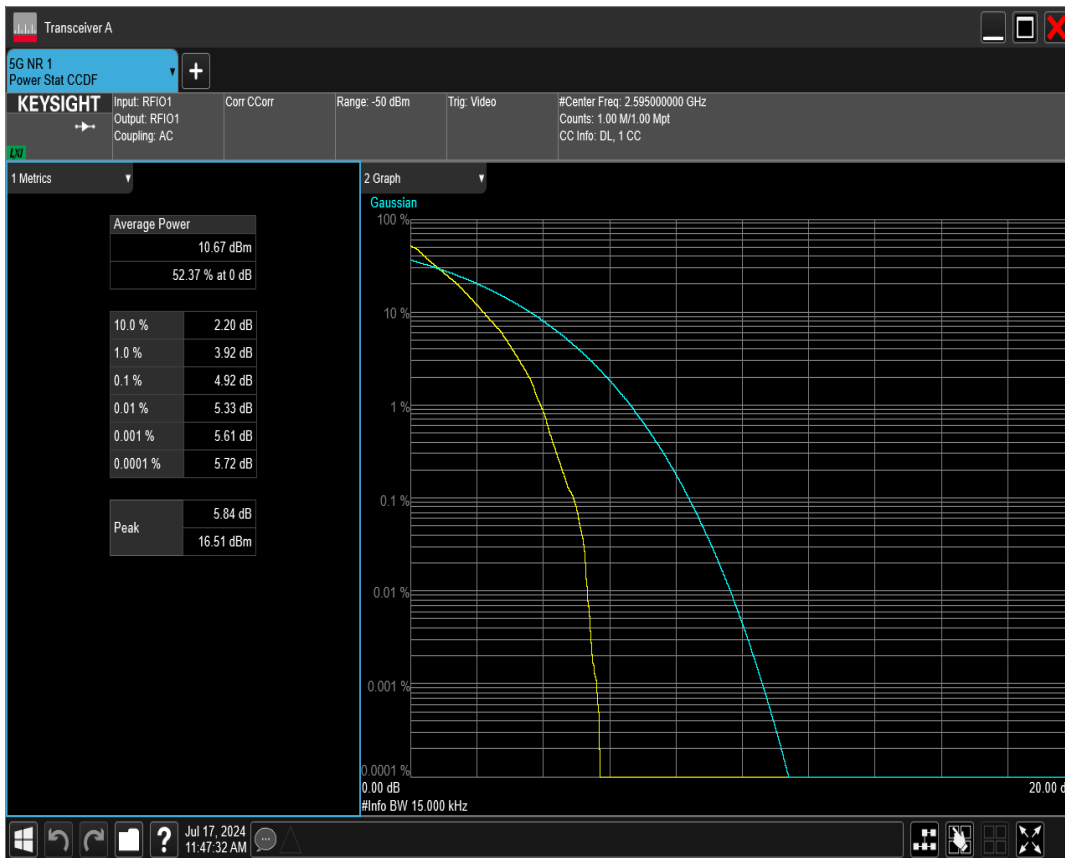


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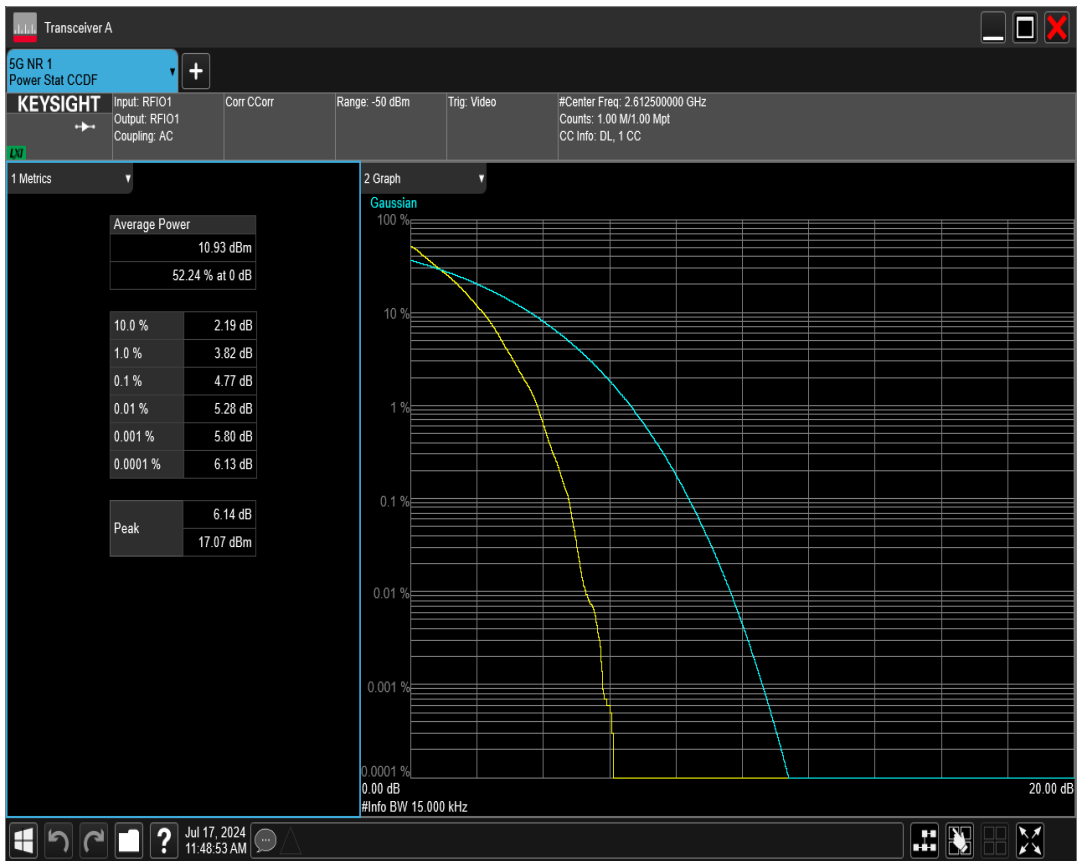




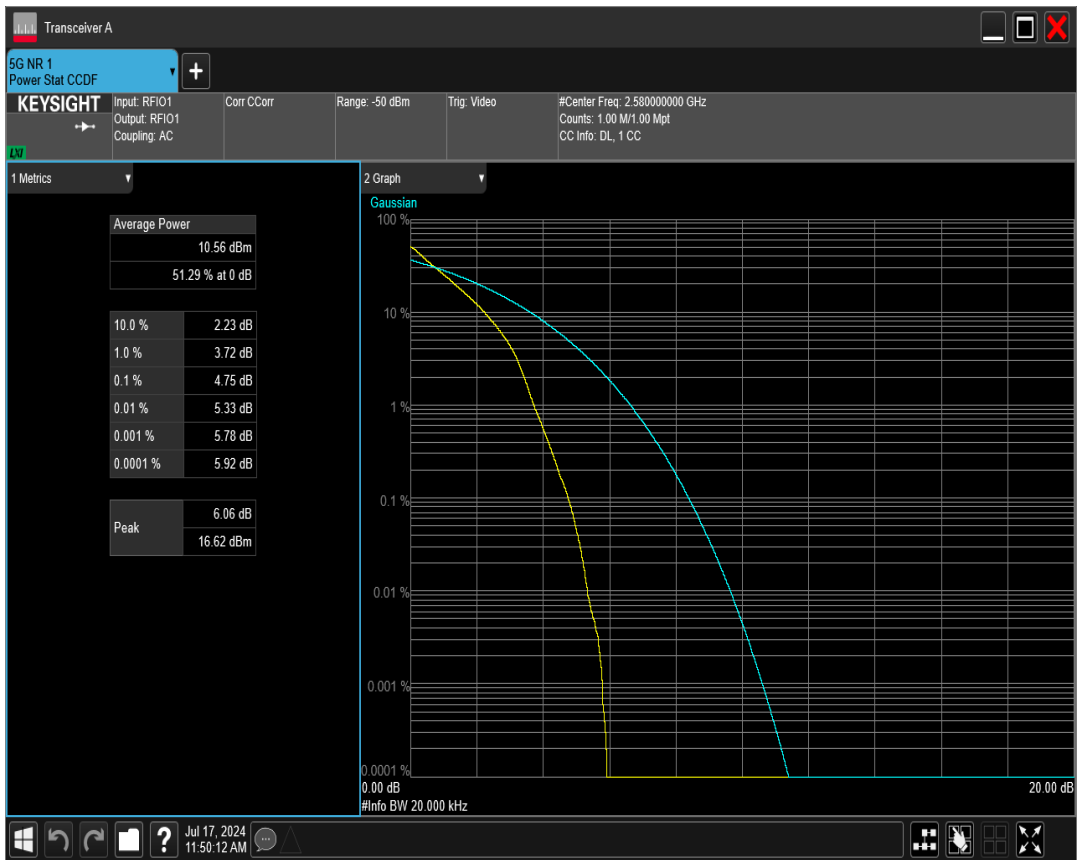
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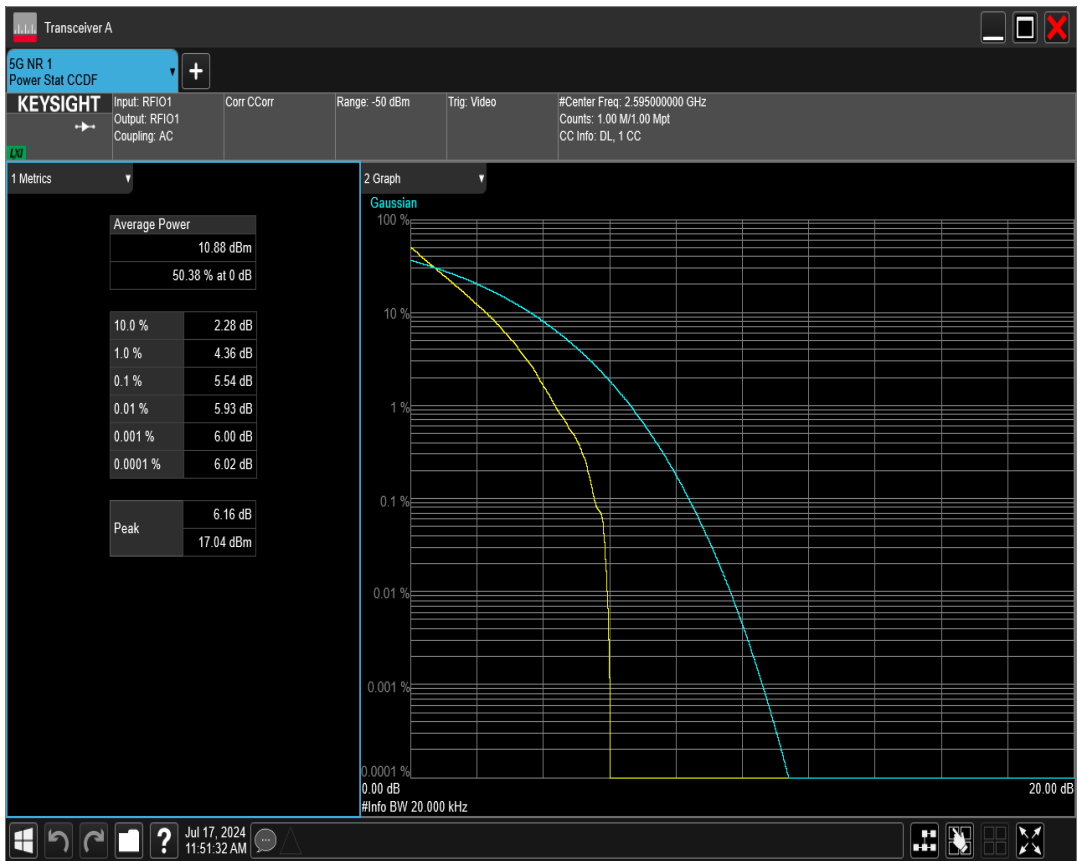
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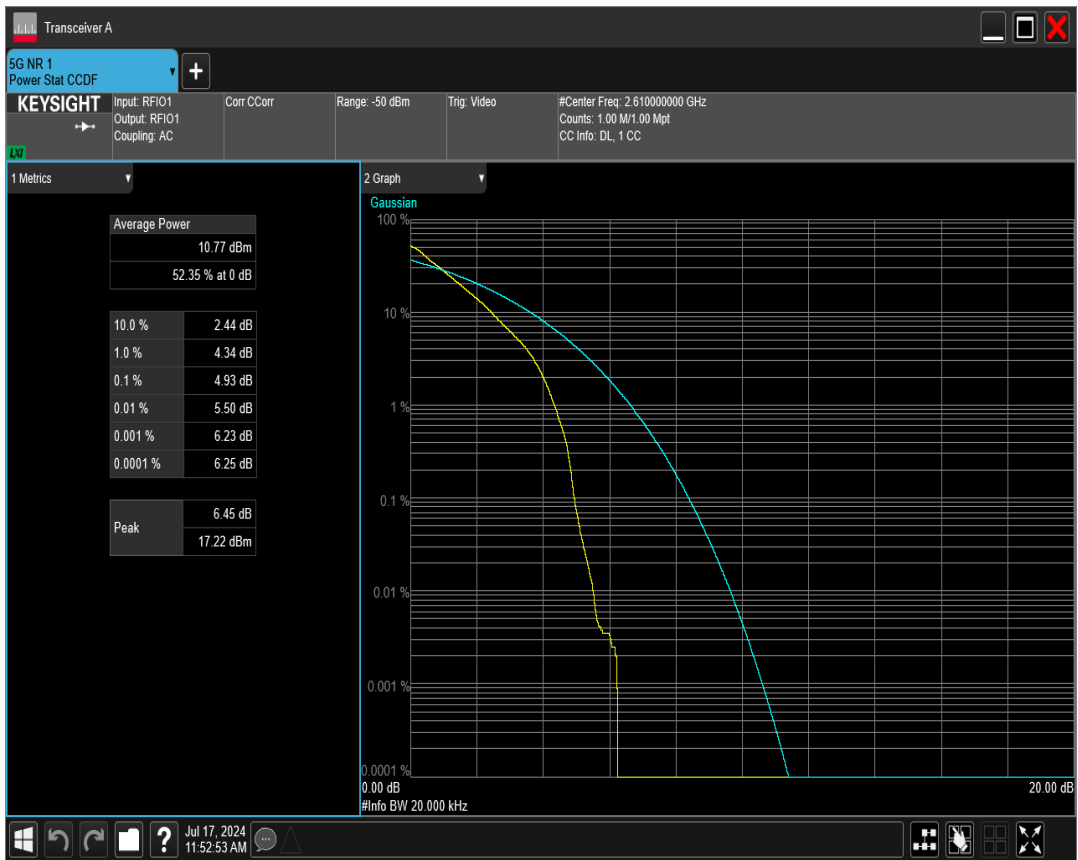
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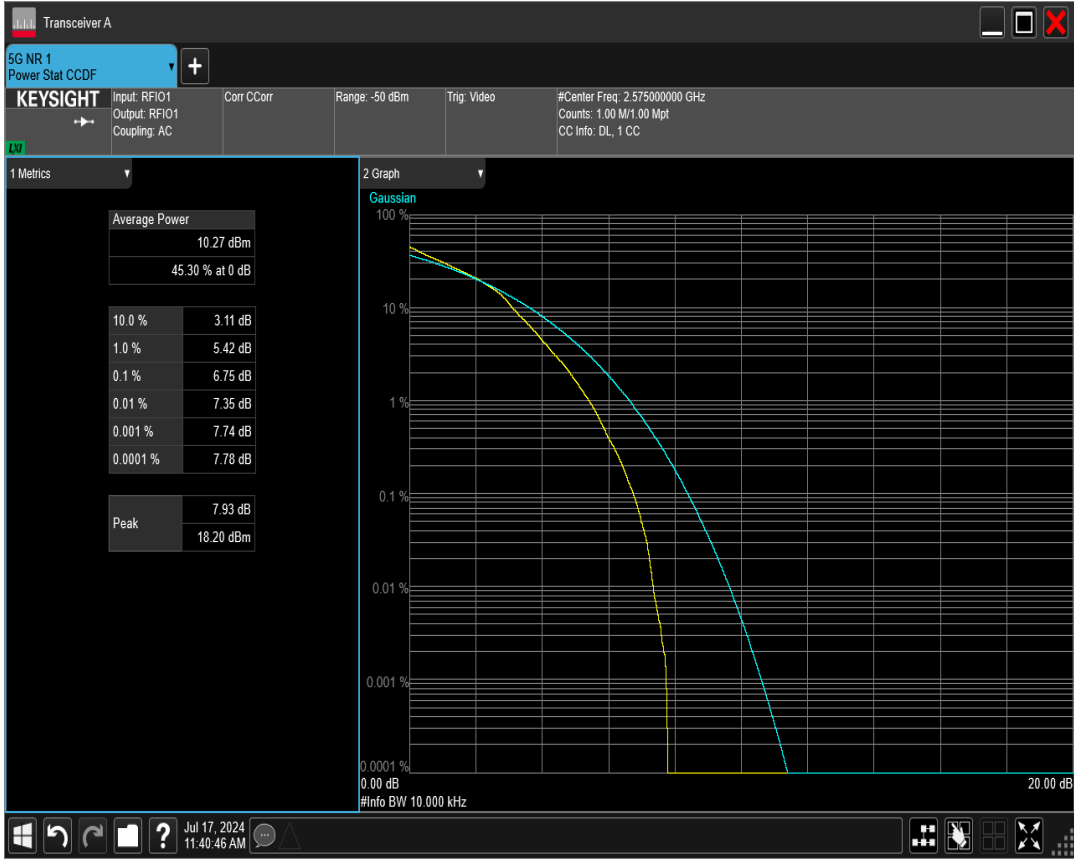
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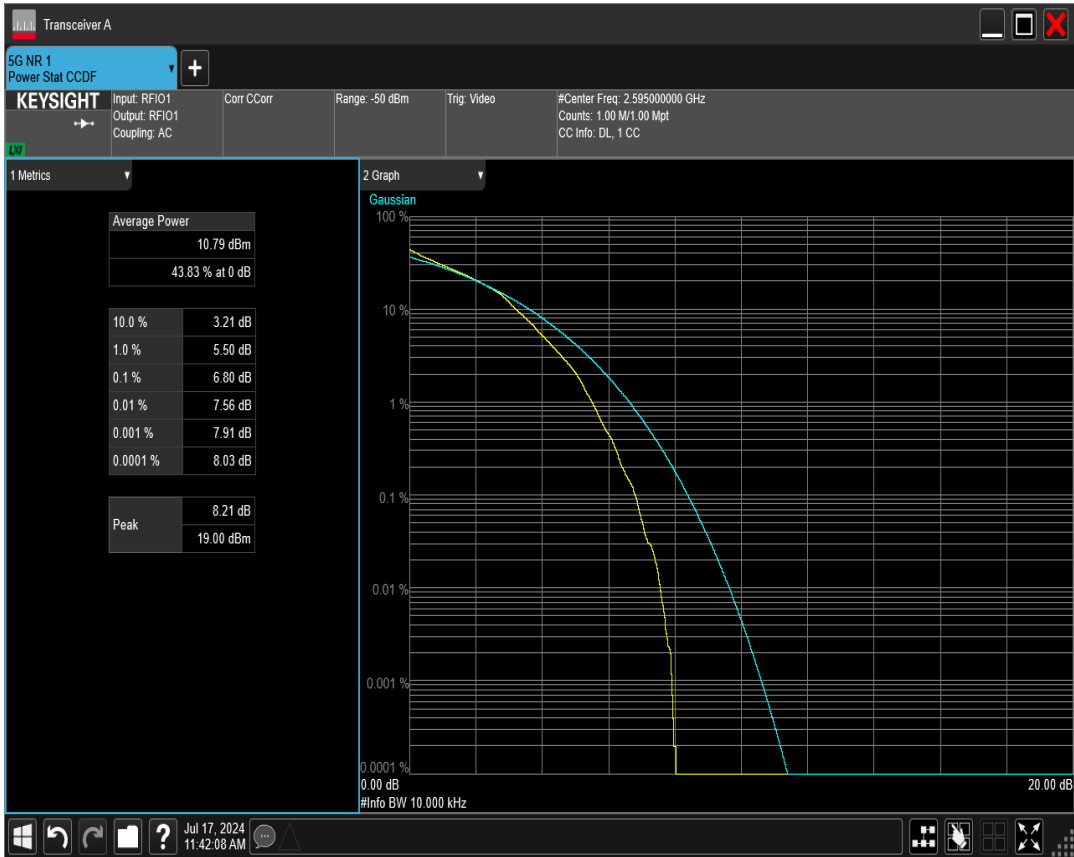
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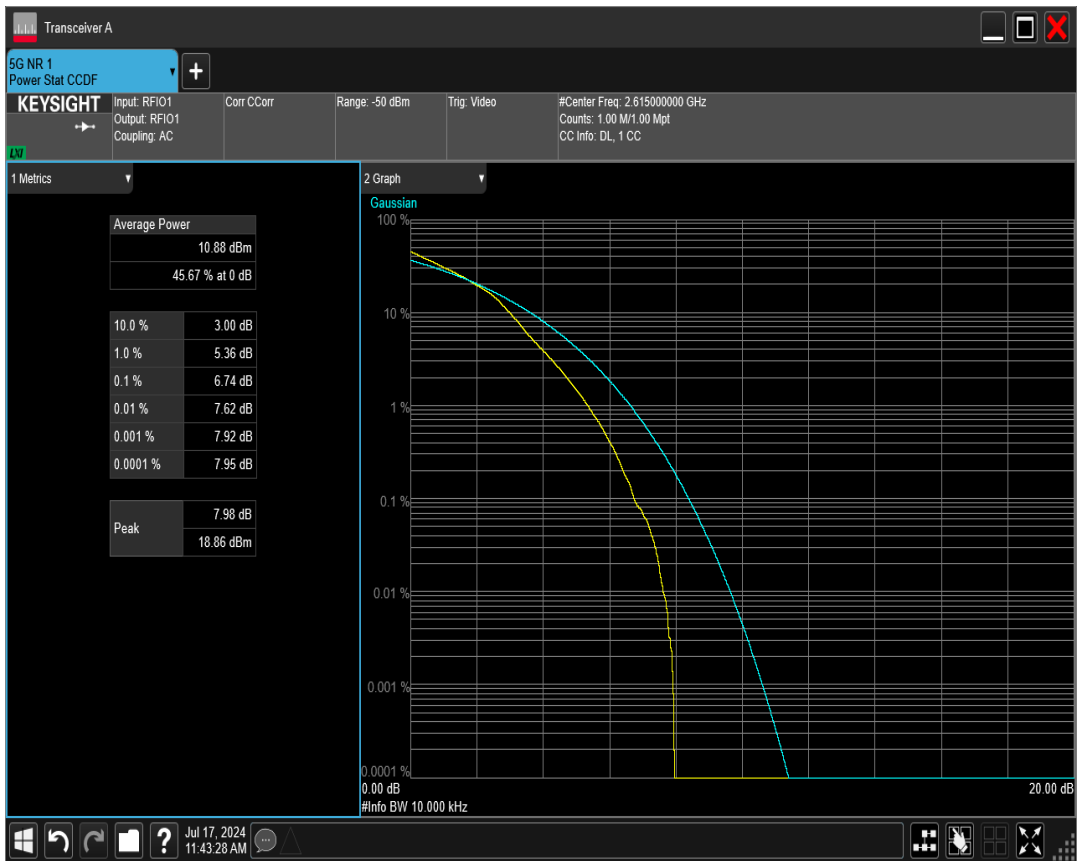
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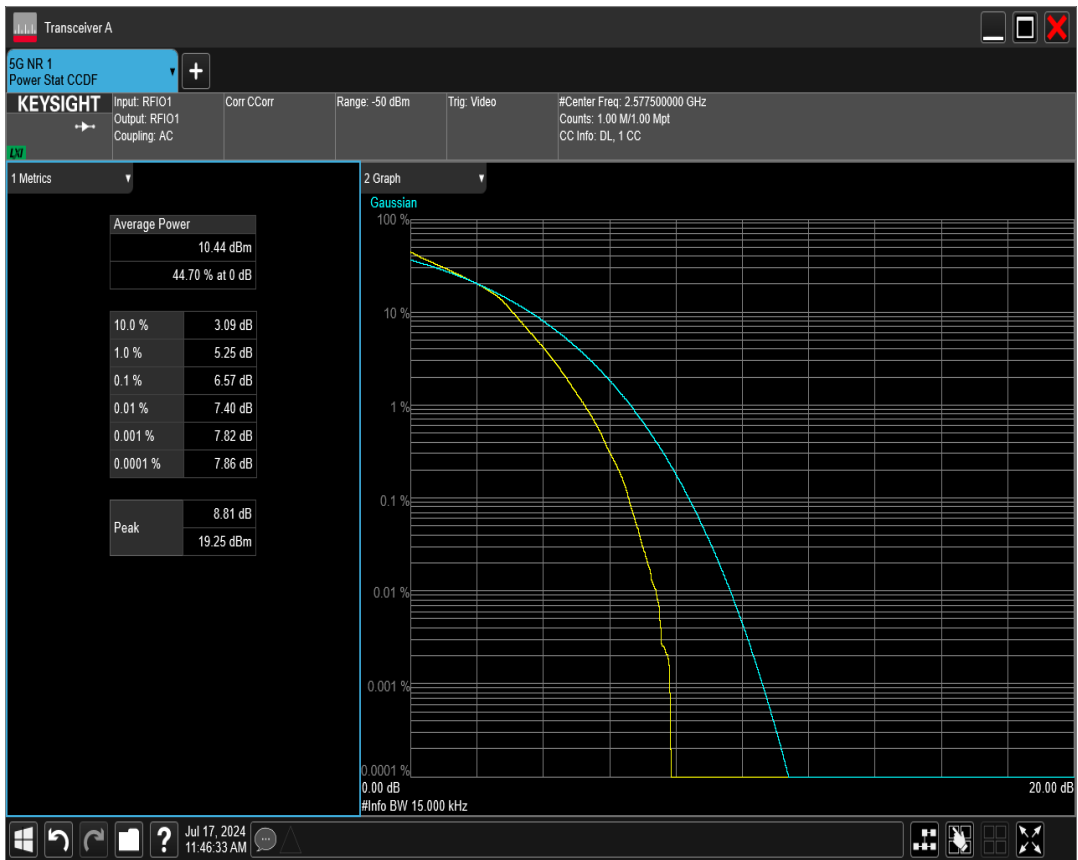
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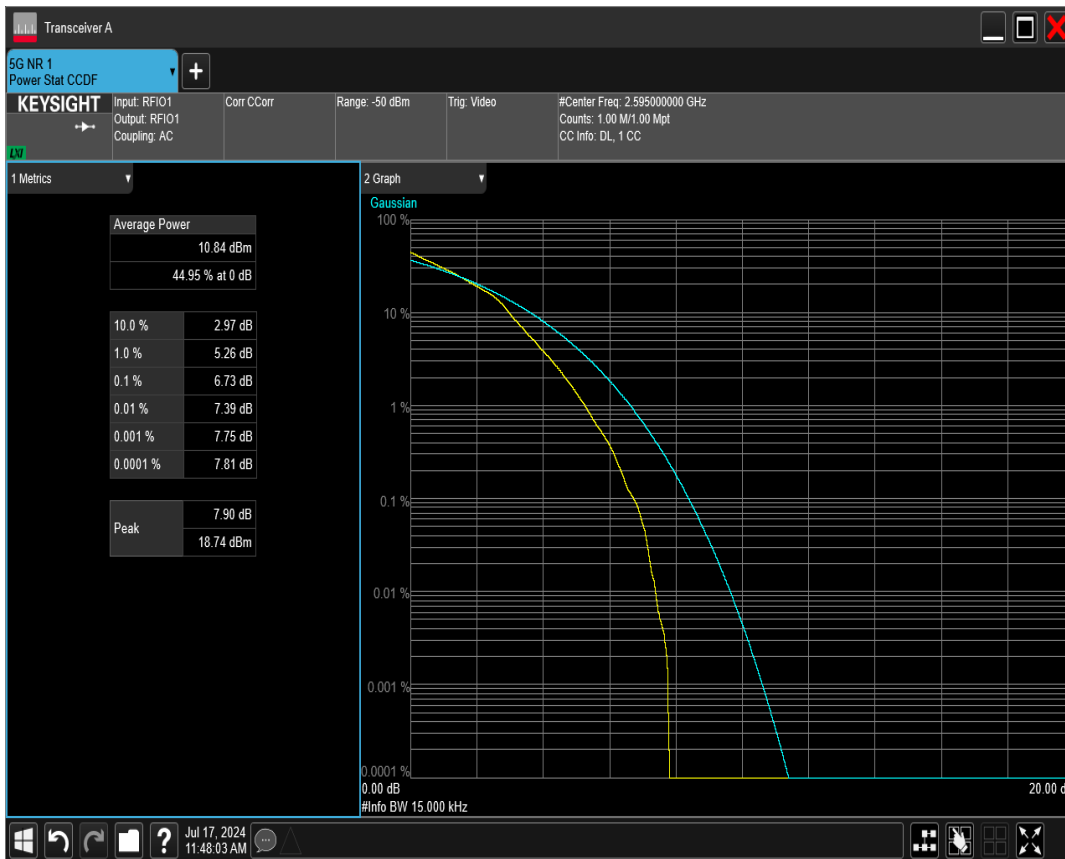
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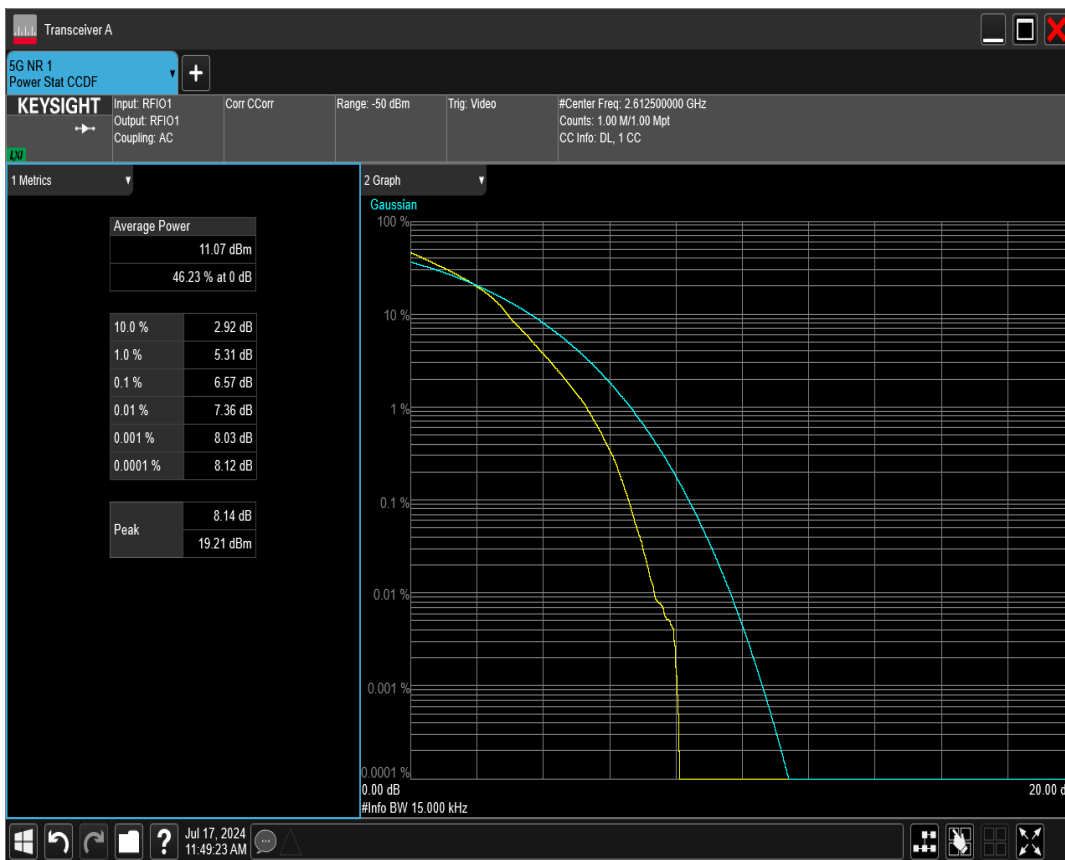
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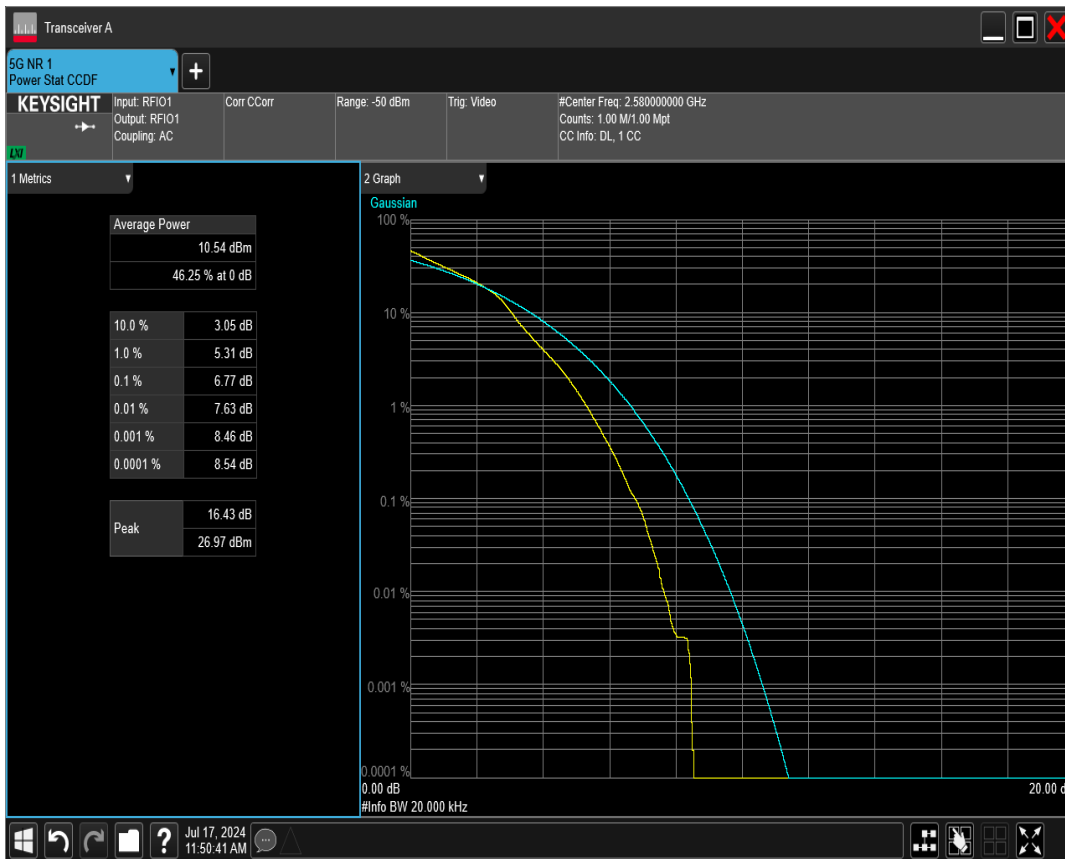
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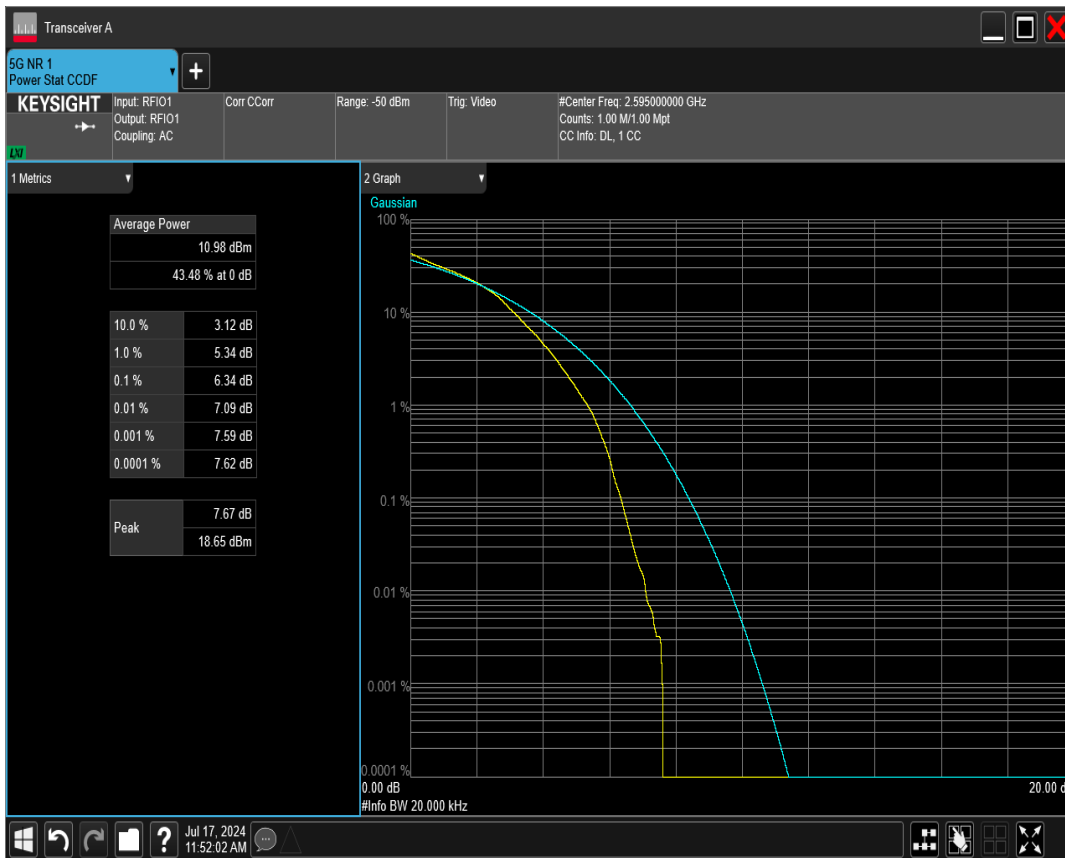
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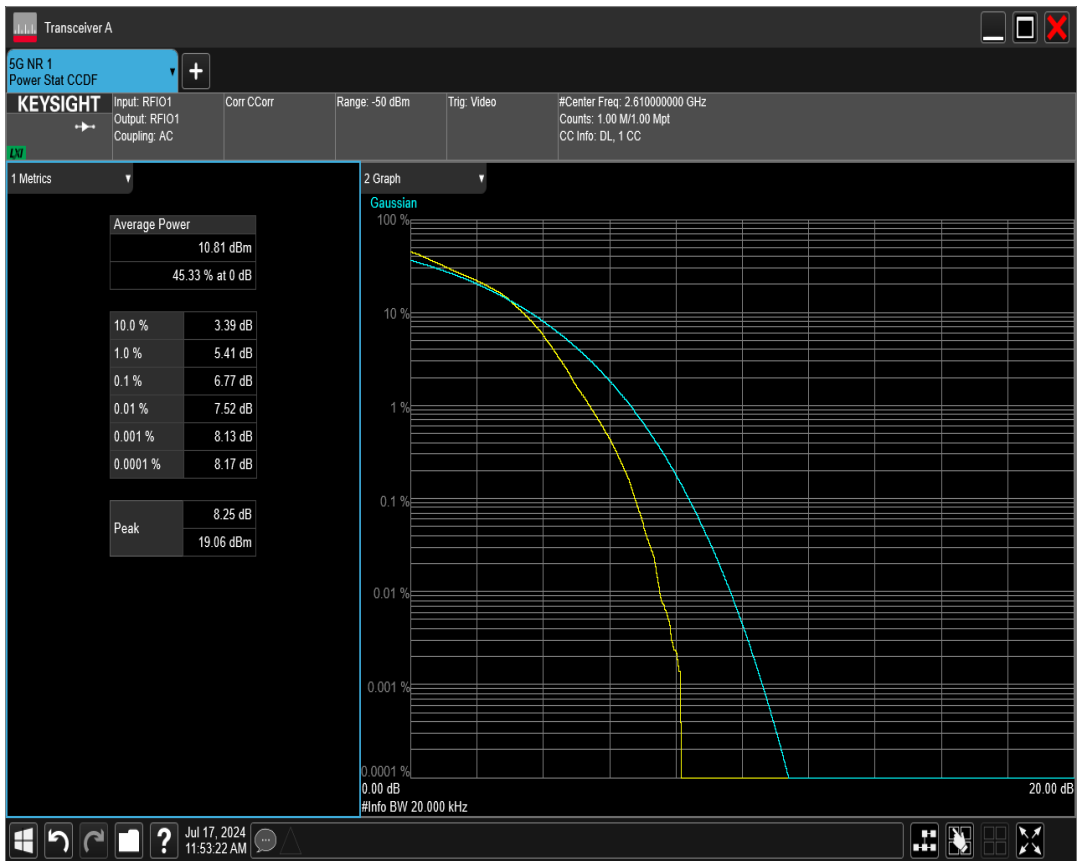
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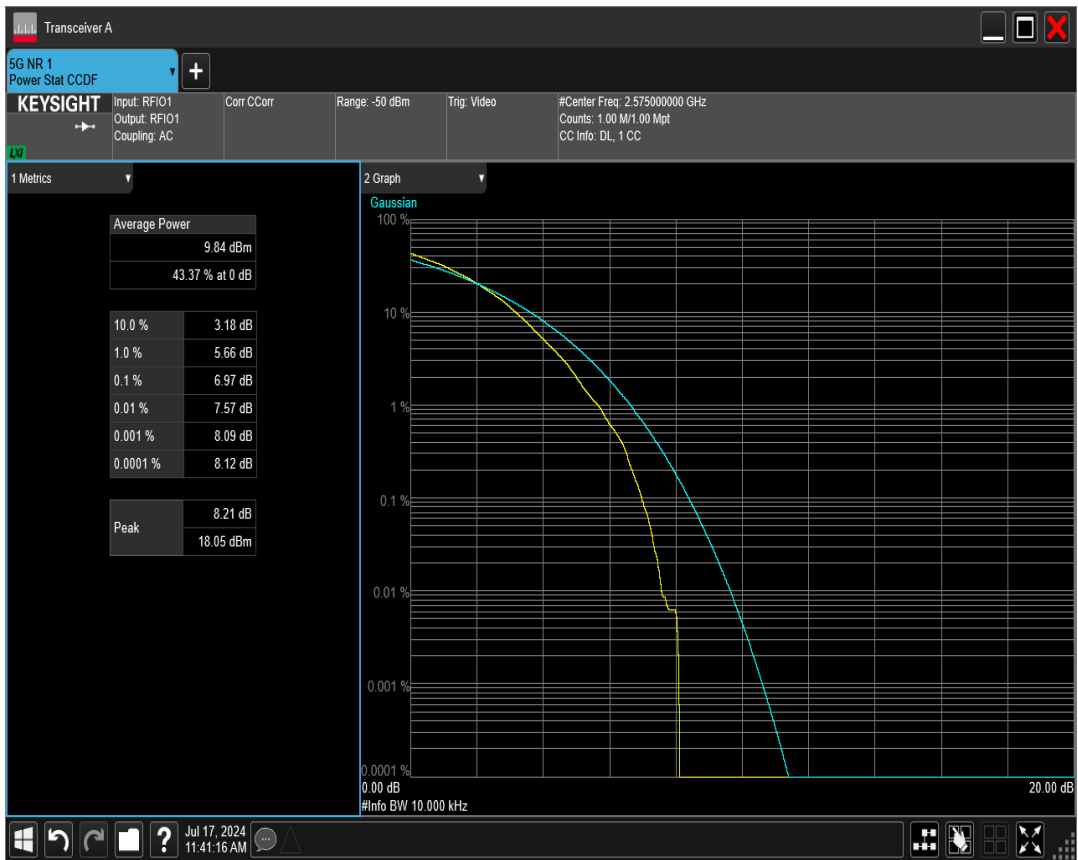
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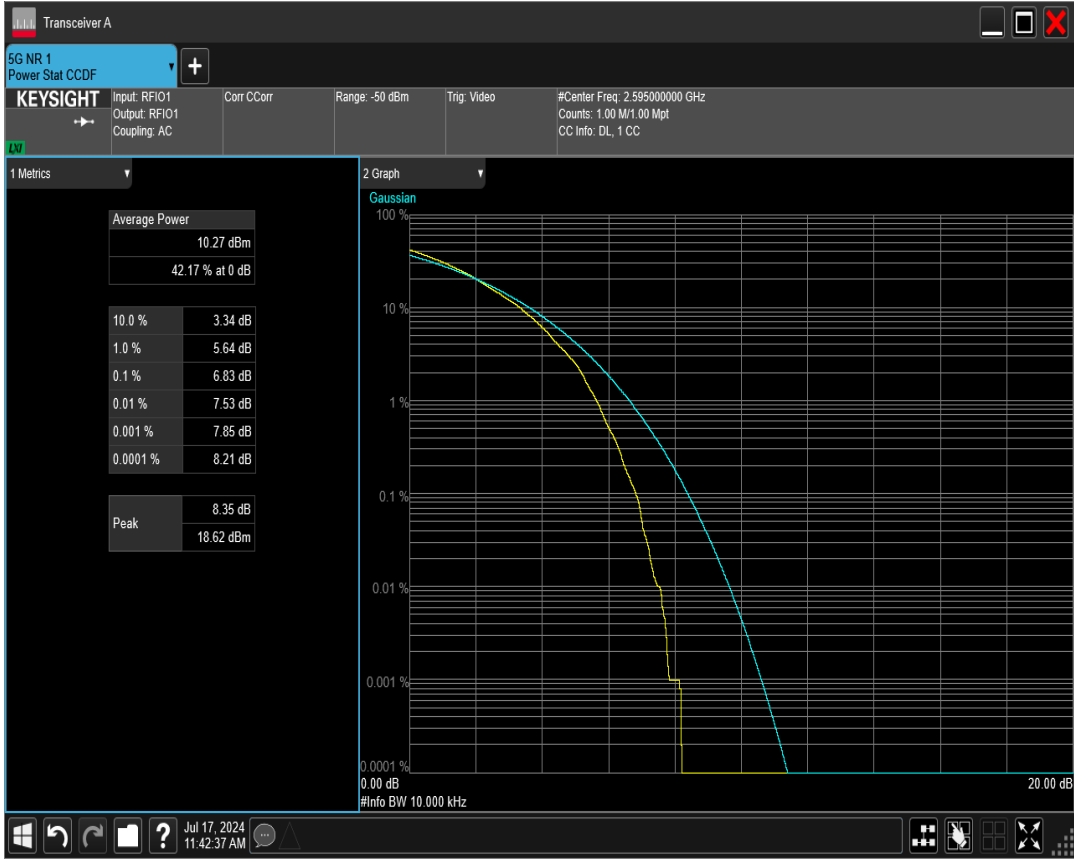


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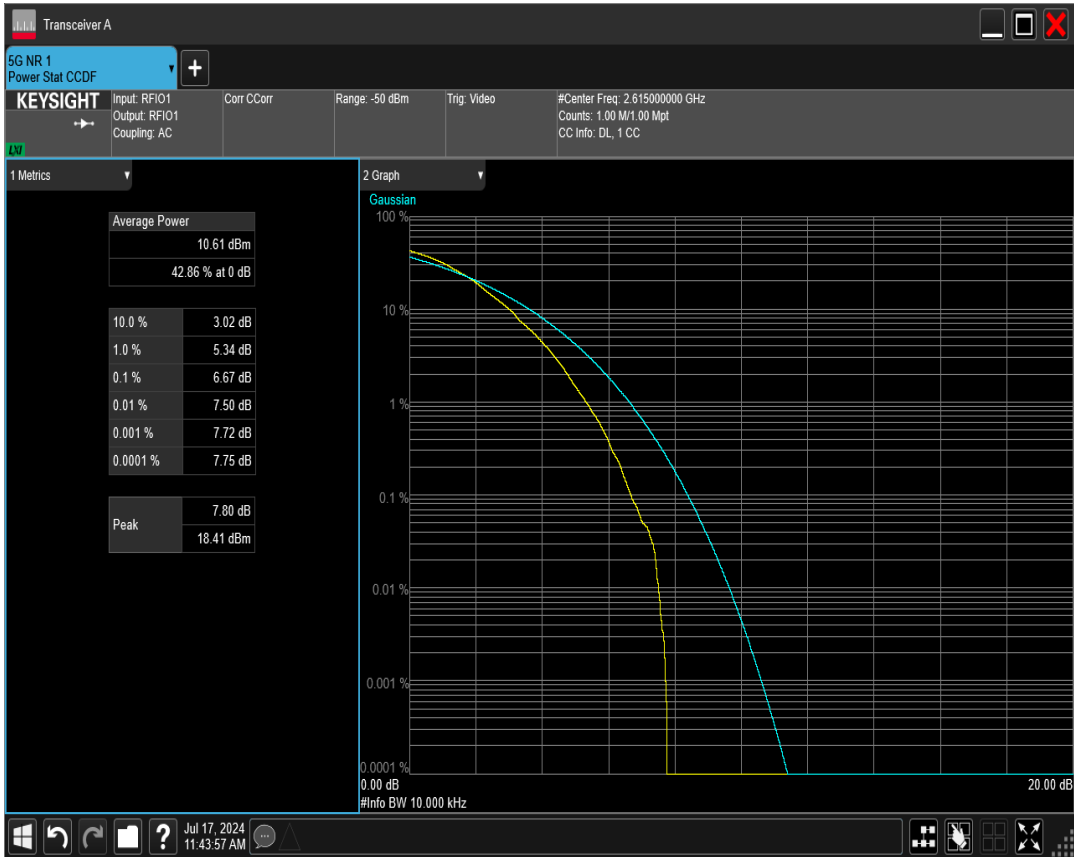


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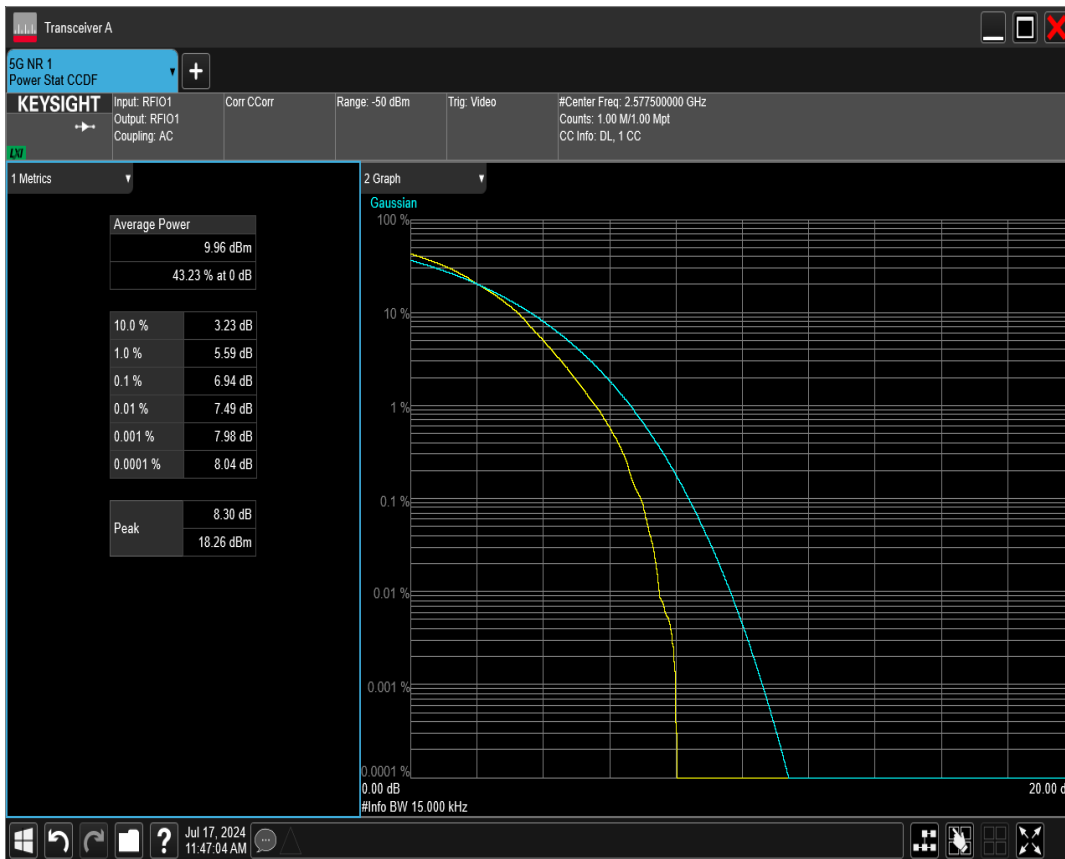




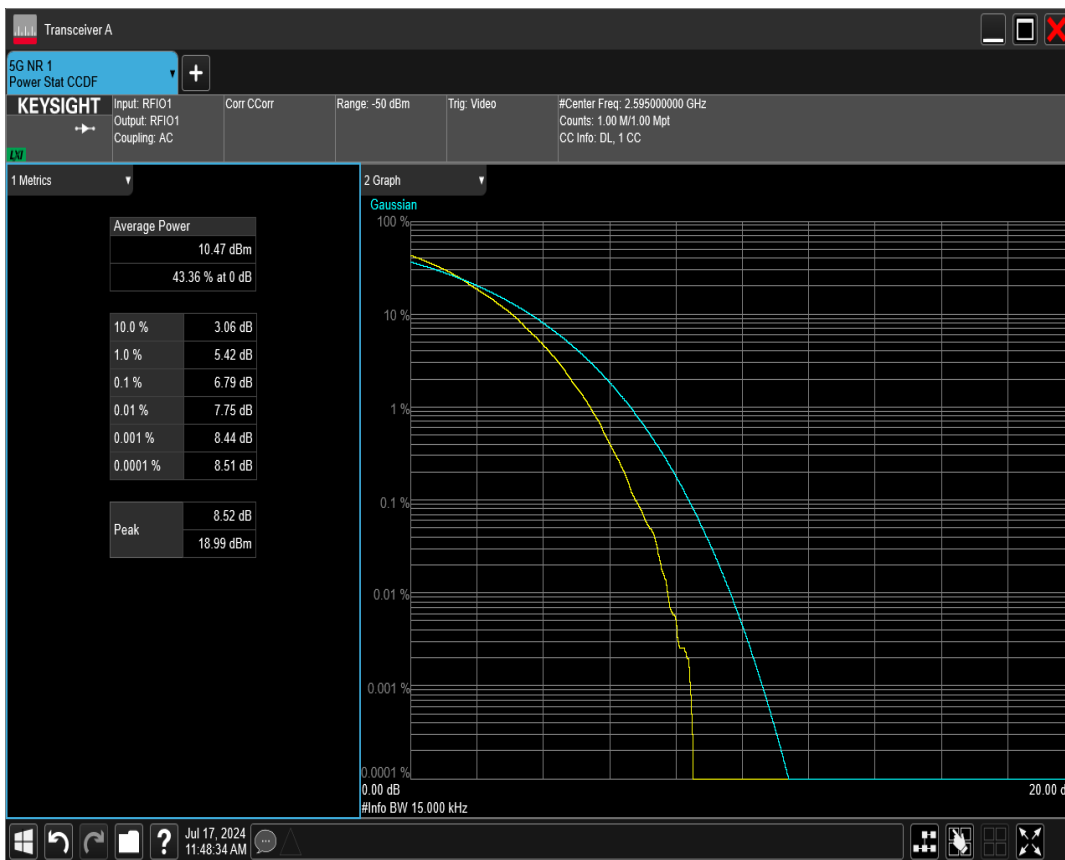
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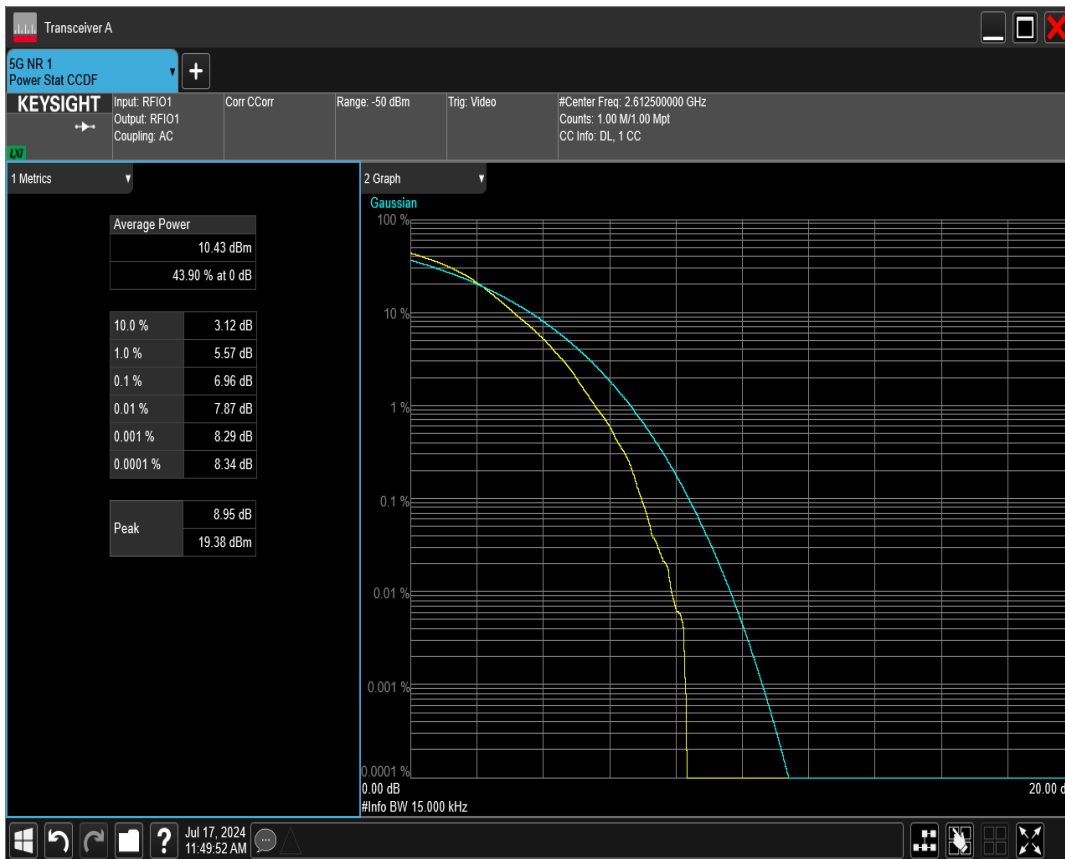
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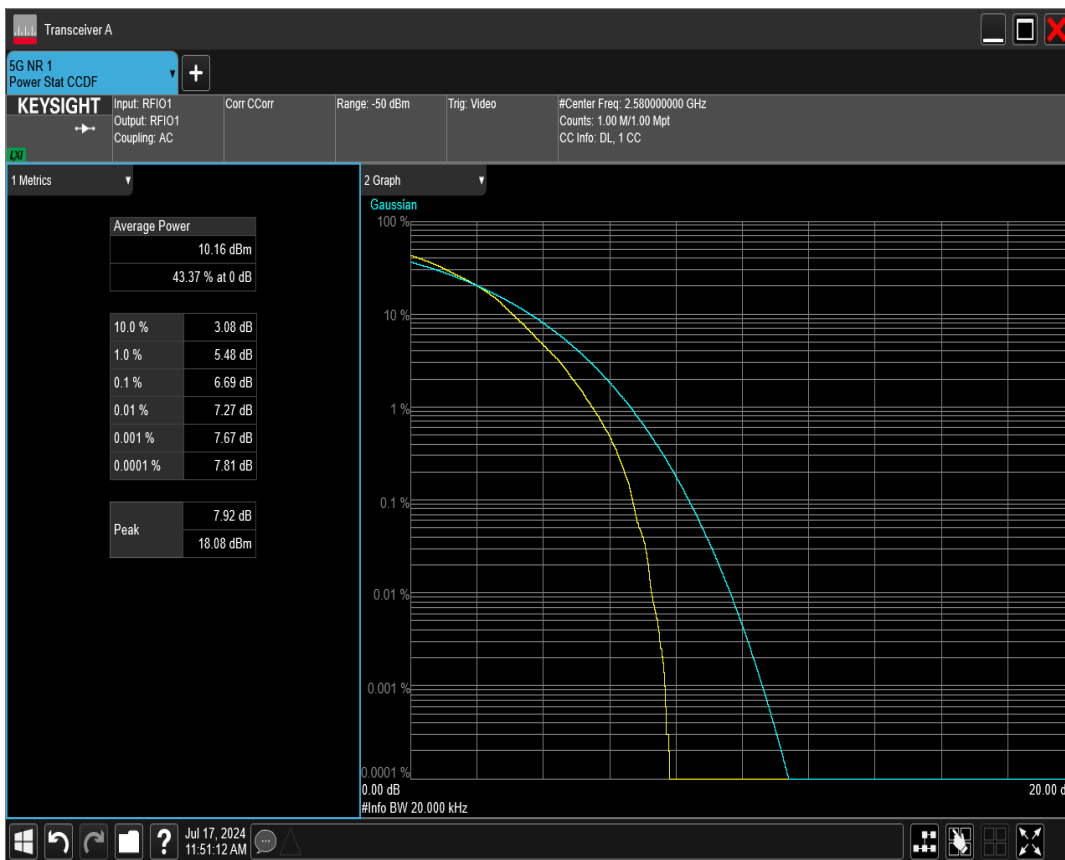
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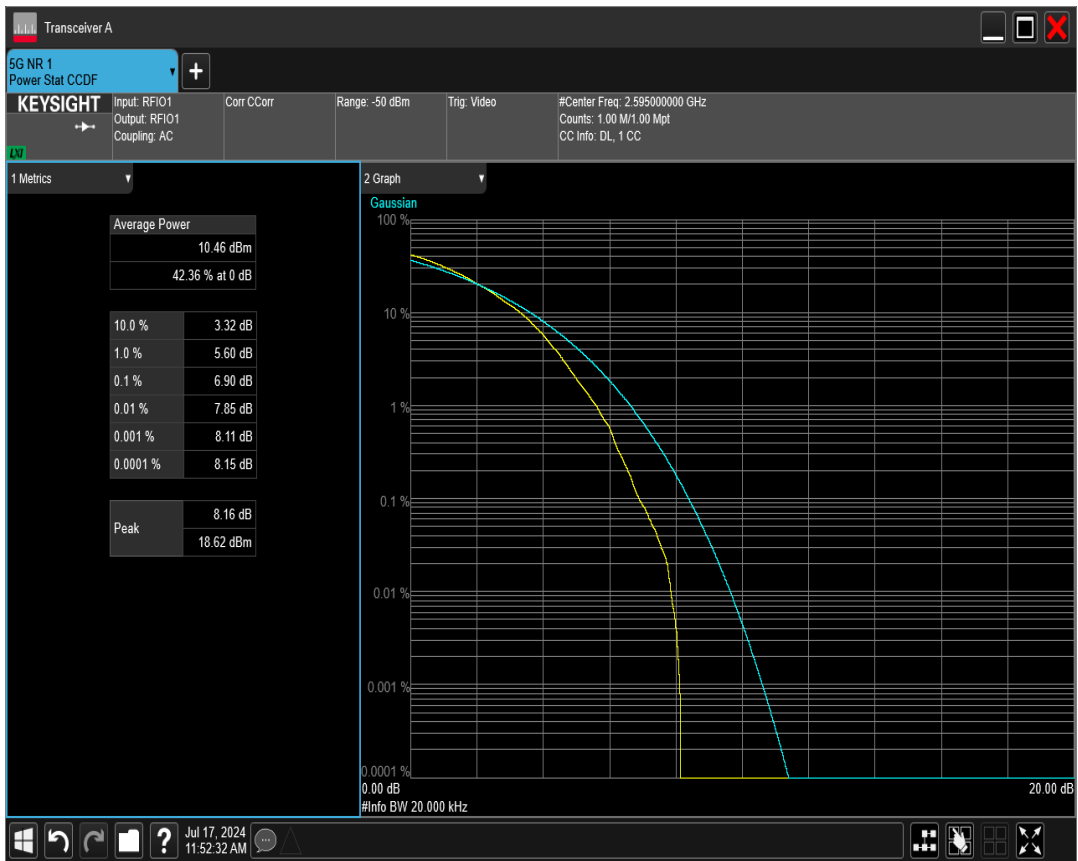
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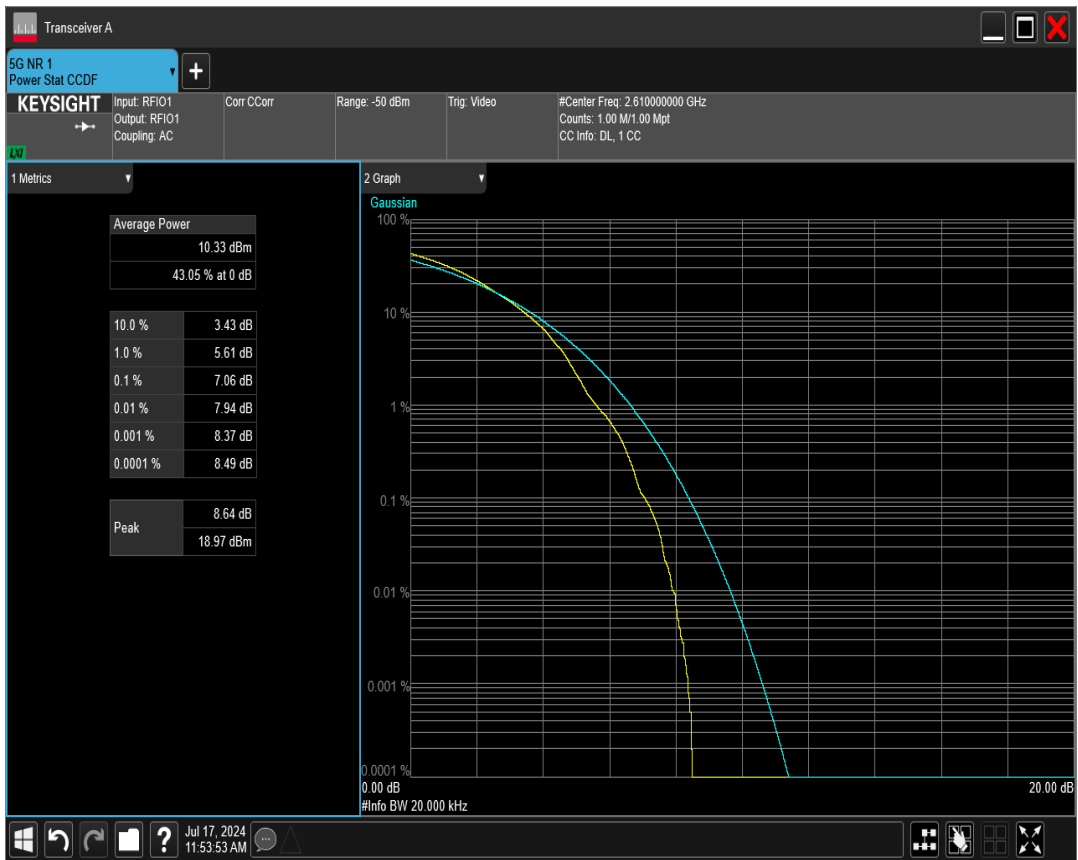
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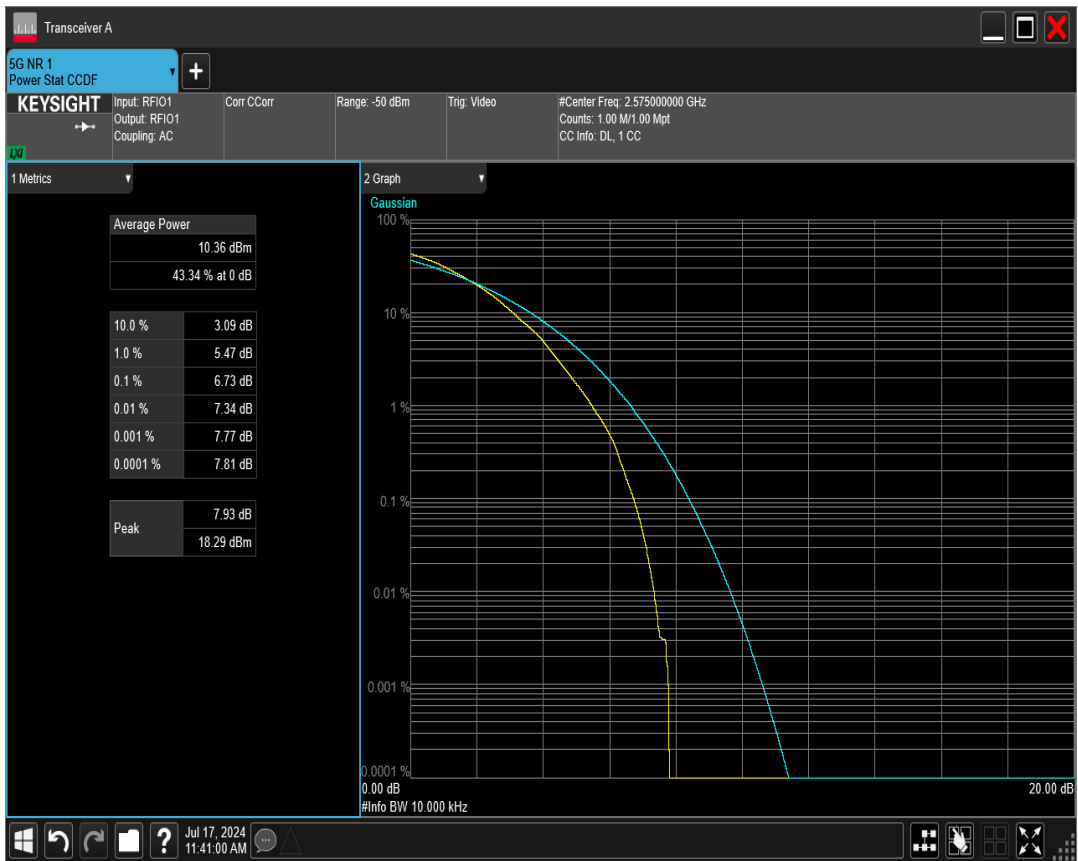
*n38 SCS=30kHz DFT\_QAM256 BW=20MHz Channel=519000 RB=50 @0*



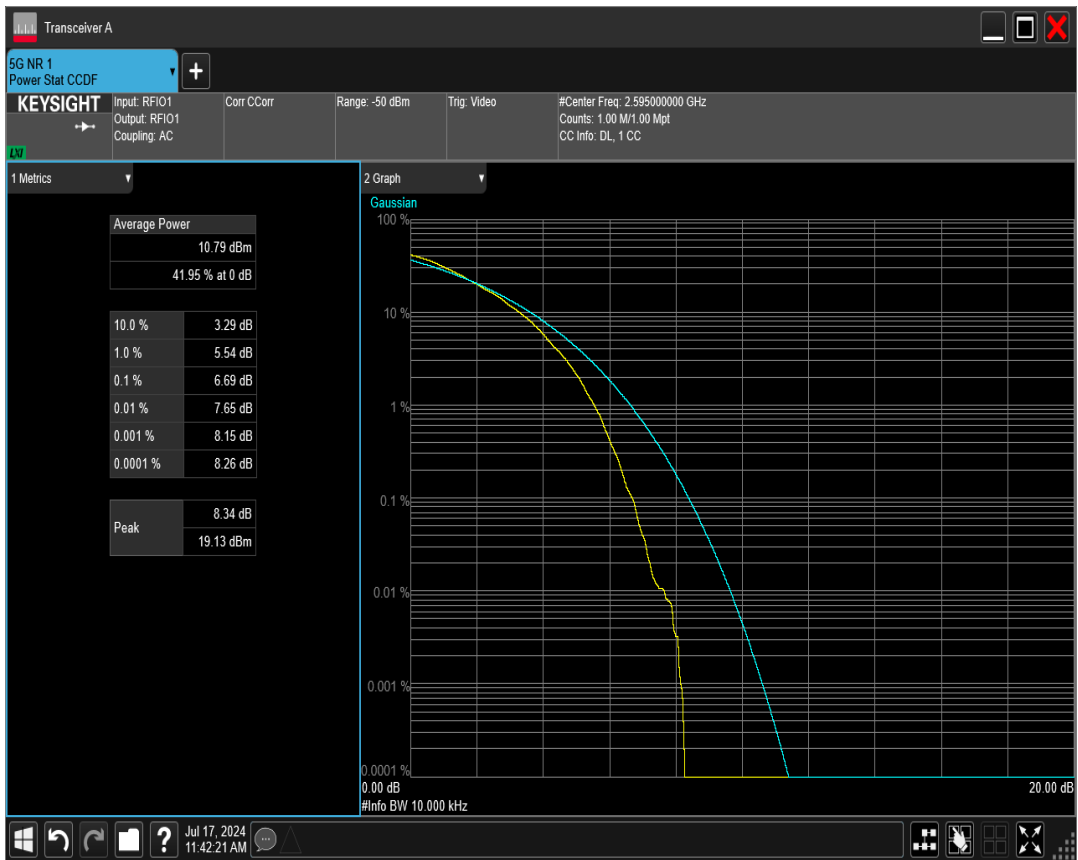
***n38 SCS=30kHz DFT\_QAM256 BW=20MHz Channel=522000 RB=50 @0***



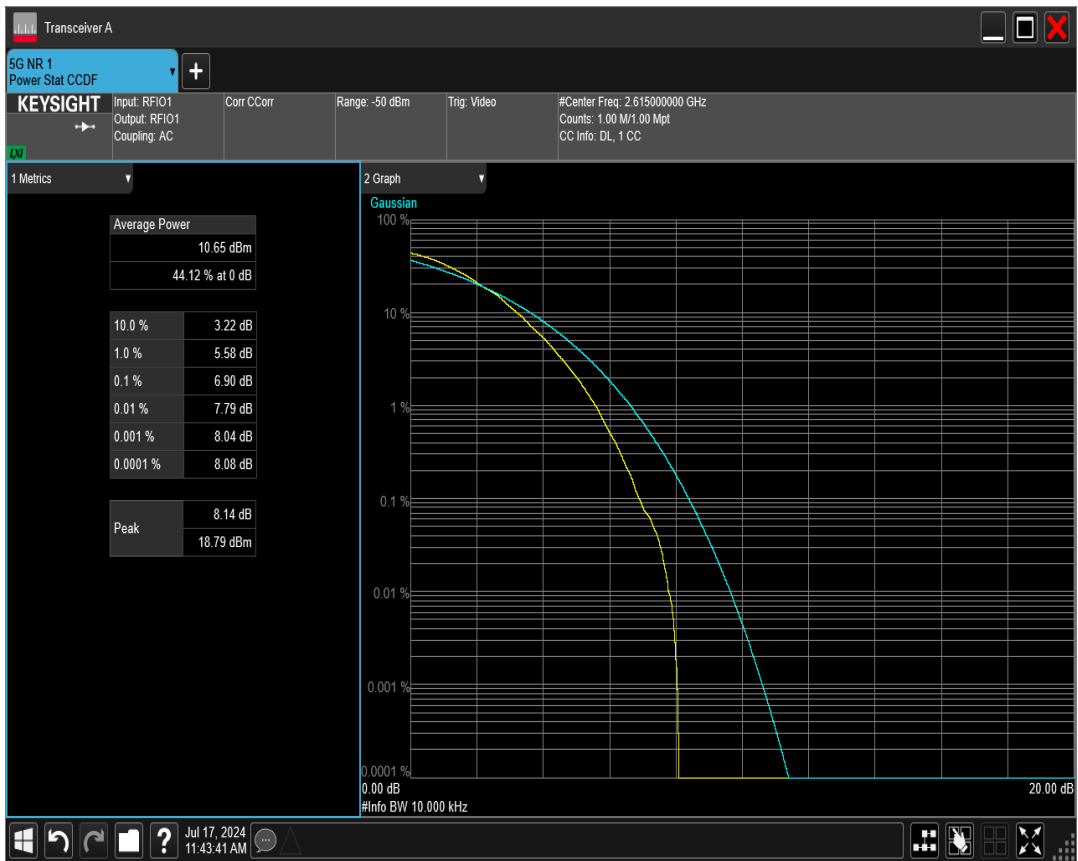
***n38 SCS=30kHz DFT\_QAM64 BW=10MHz Channel=515000 RB=24 @0***



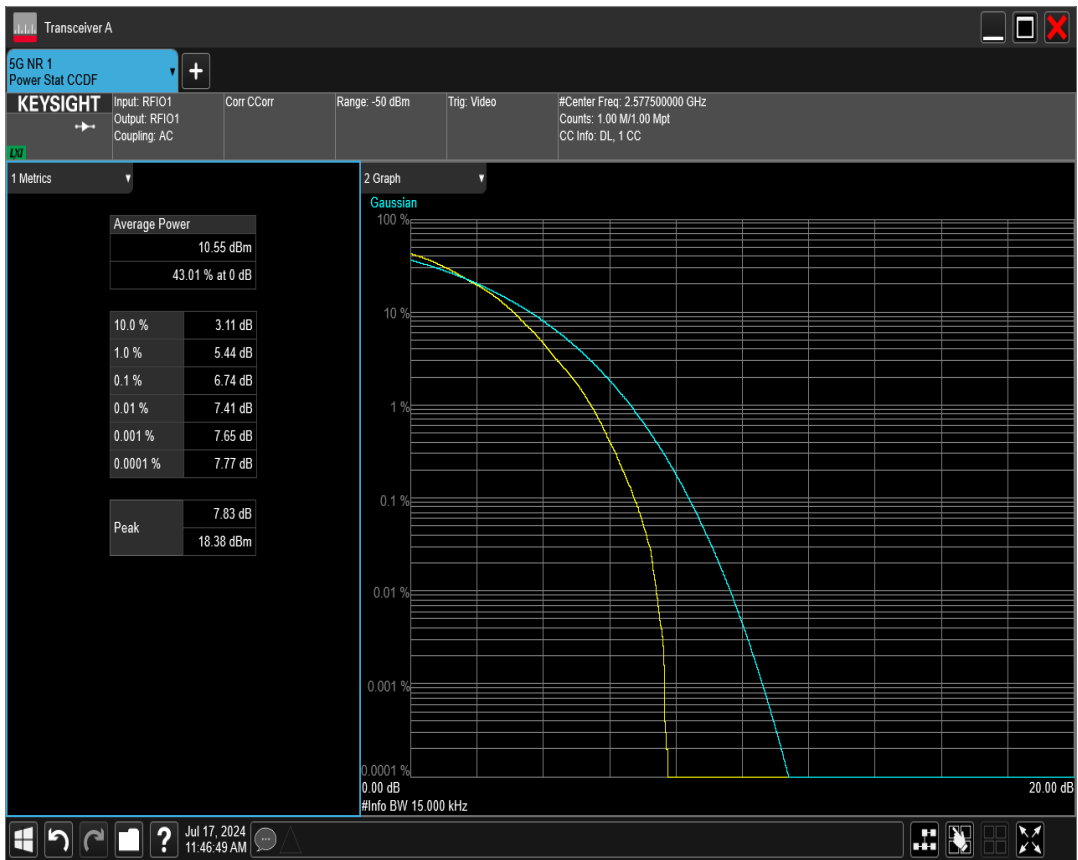
*n38 SCS=30kHz DFT\_QAM64 BW=10MHz Channel=519000 RB=24@0*



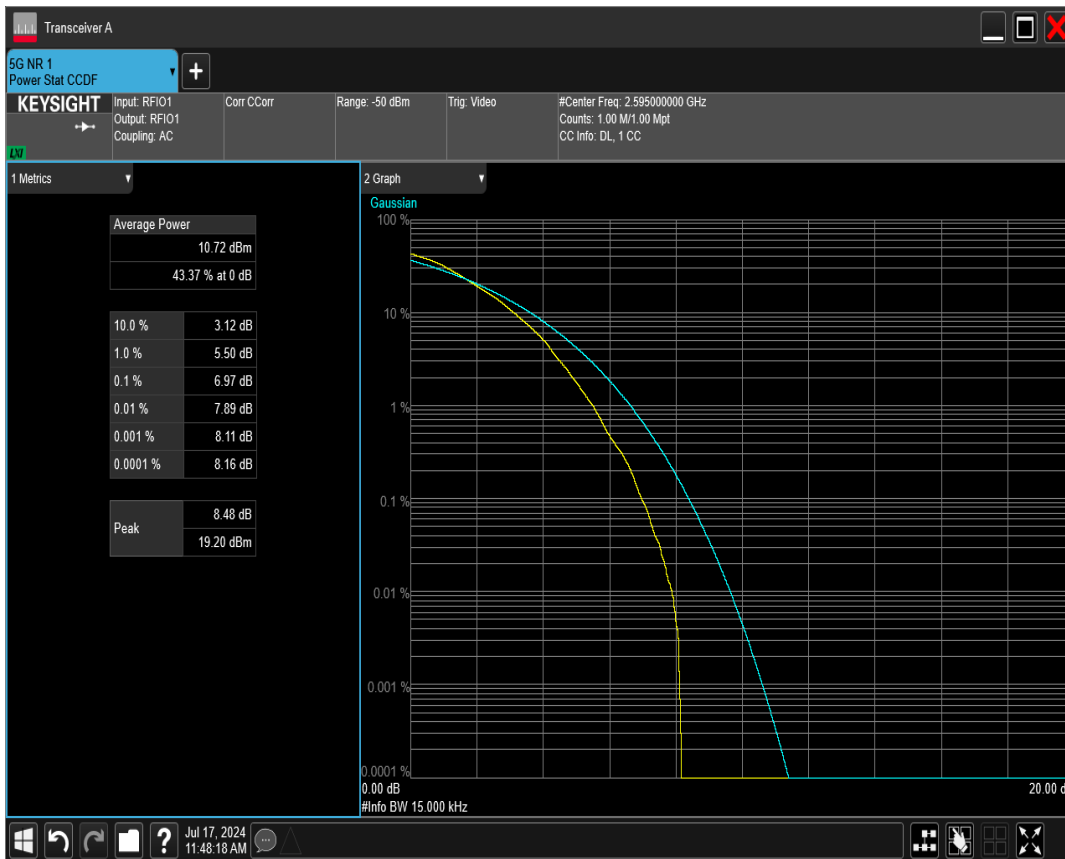
*n38 SCS=30kHz DFT\_QAM64 BW=10MHz Channel=523000 RB=24@0*



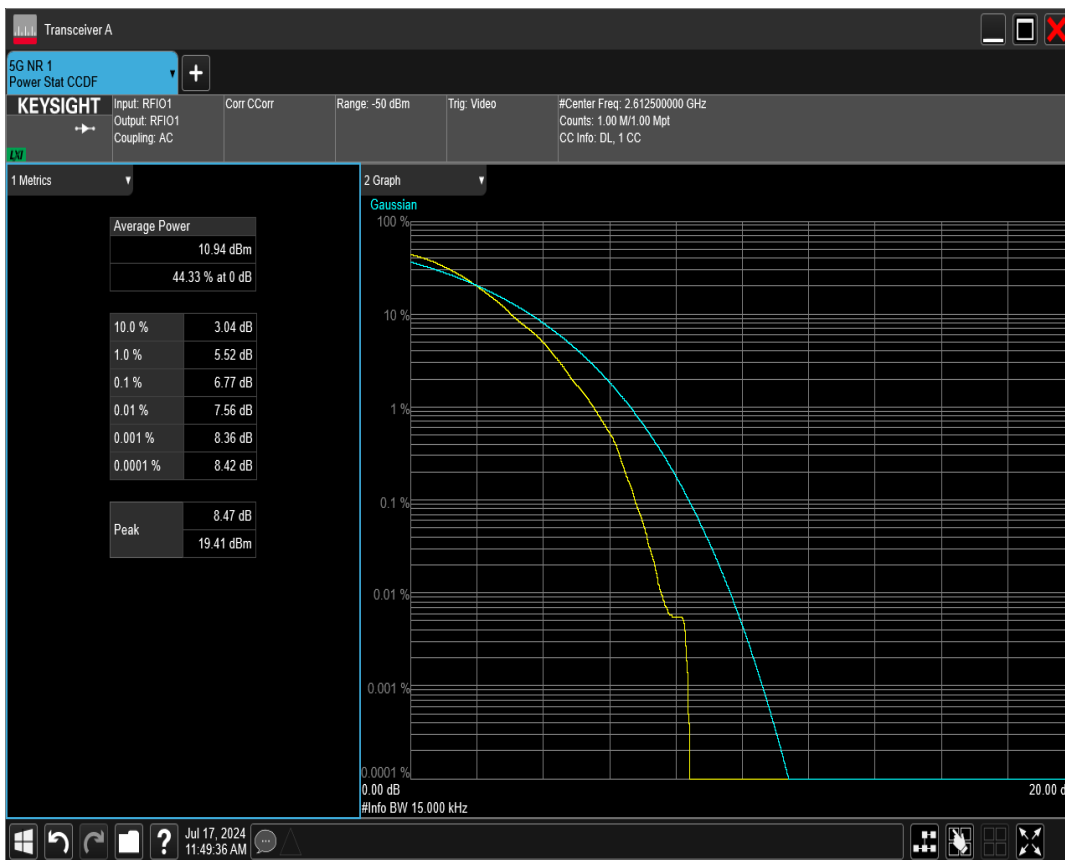
*n38 SCS=30kHz DFT\_QAM64 BW=15MHz Channel=515500 RB=36@0*



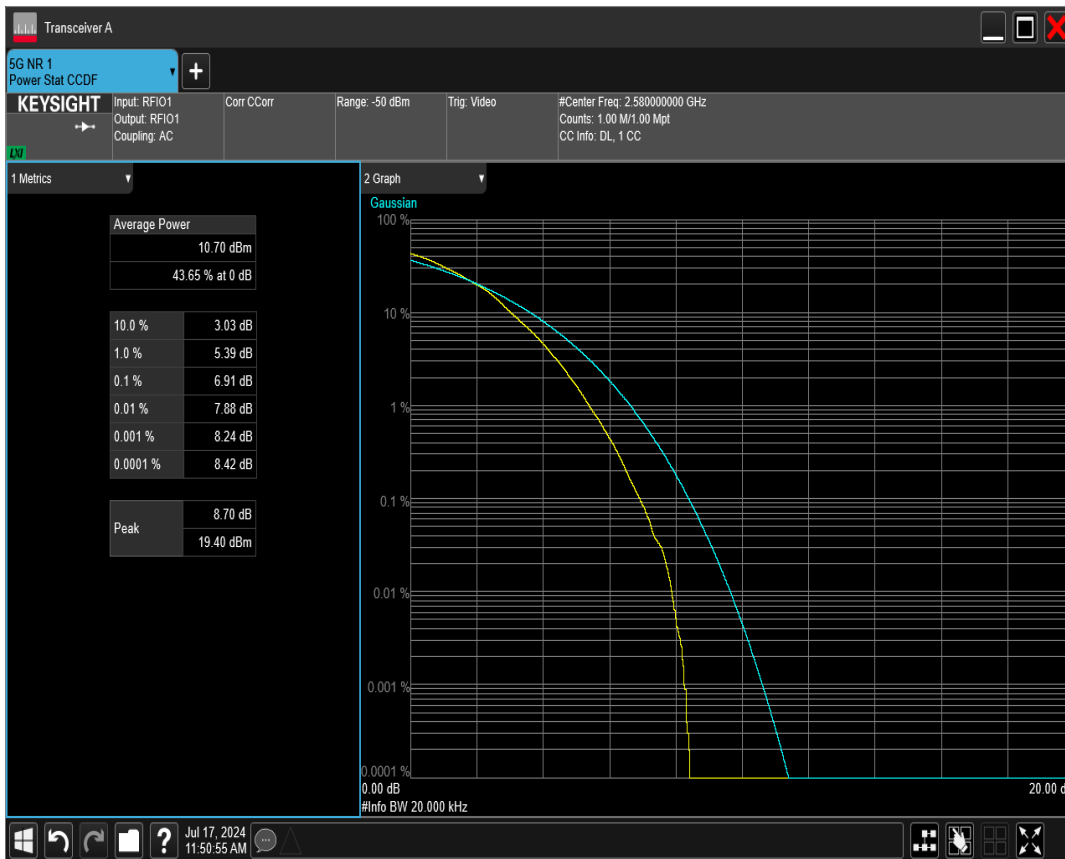
*n38 SCS=30kHz DFT\_QAM64 BW=15MHz Channel=519000 RB=36@0*



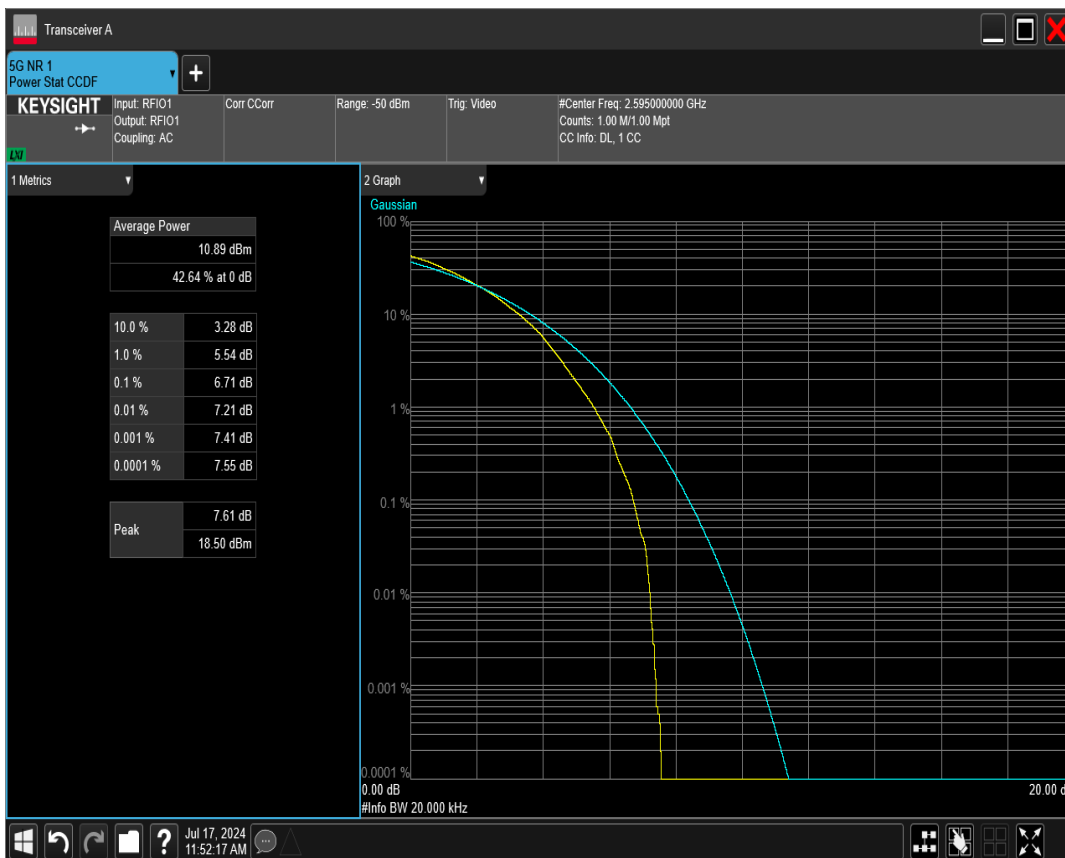
*n38 SCS=30kHz DFT\_QAM64 BW=15MHz Channel=522500 RB=36 @0*



*n38 SCS=30kHz DFT\_QAM64 BW=20MHz Channel=516000 RB=50 @0*

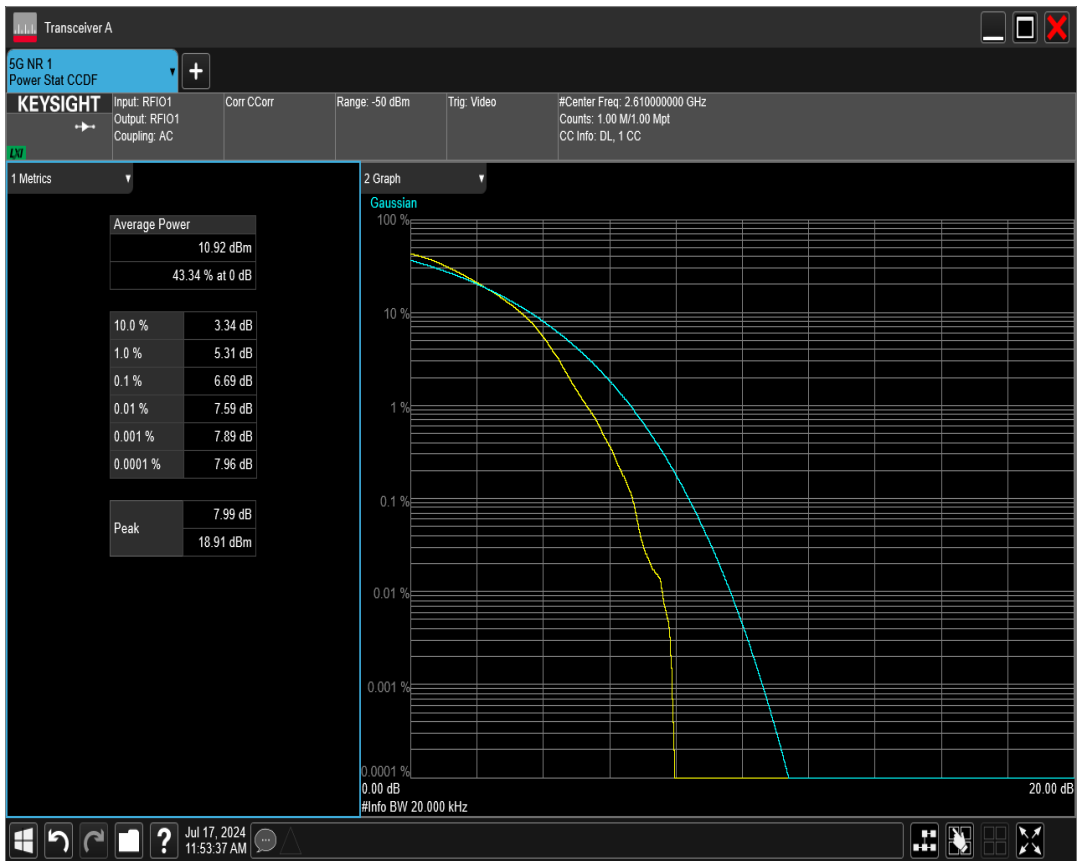


**n38 SCS=30kHz DFT\_QAM64 BW=20MHz Channel=519000 RB=50@0**

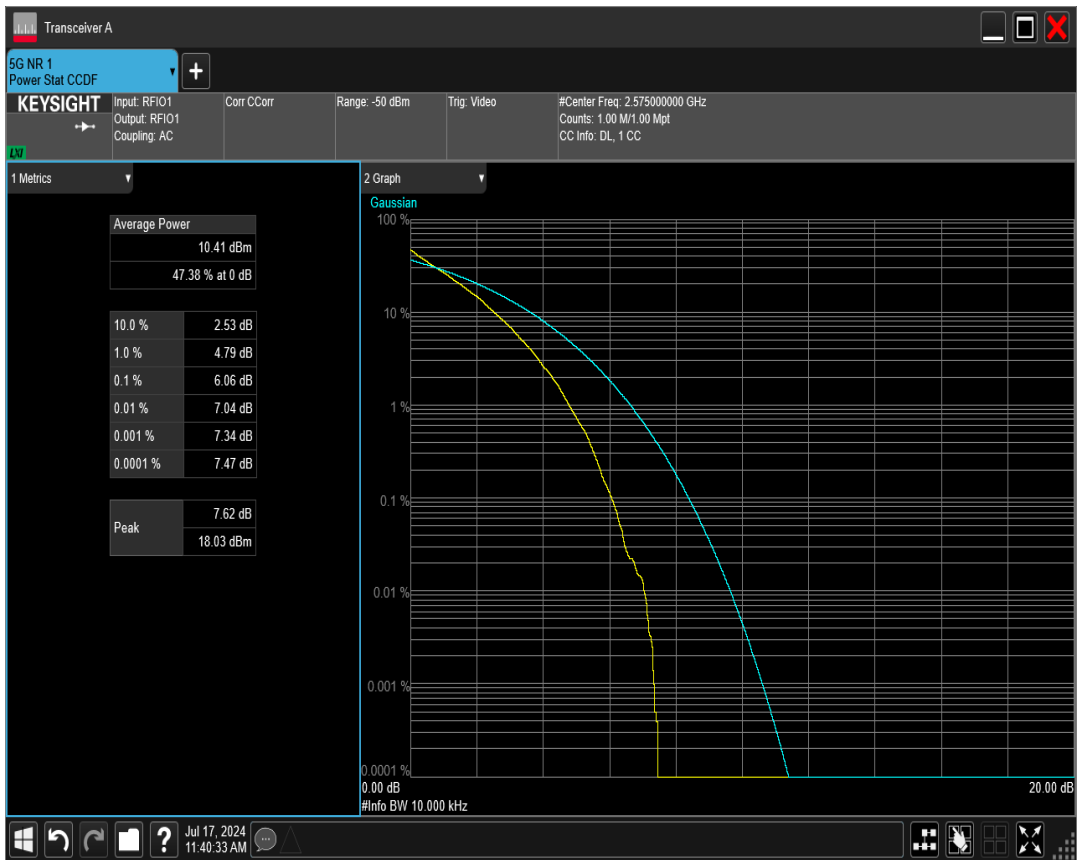


**n38 SCS=30kHz DFT\_QAM64 BW=20MHz Channel=522000 RB=50@0**

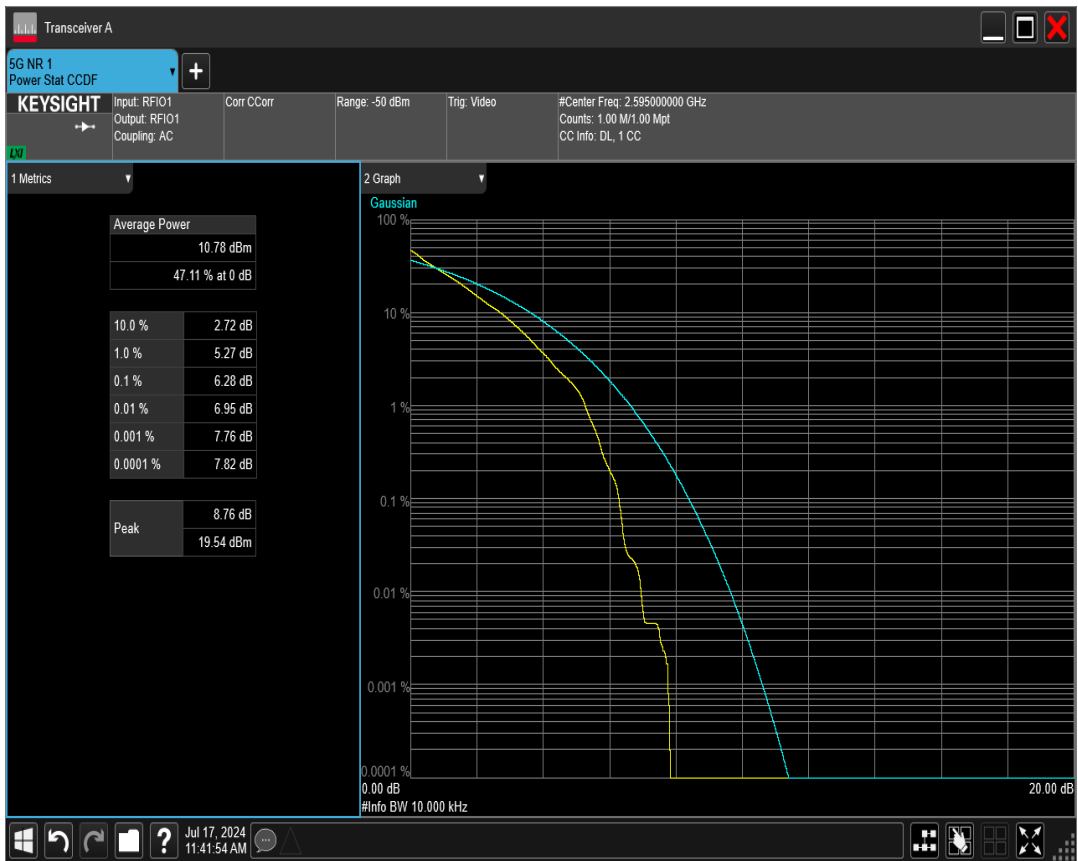




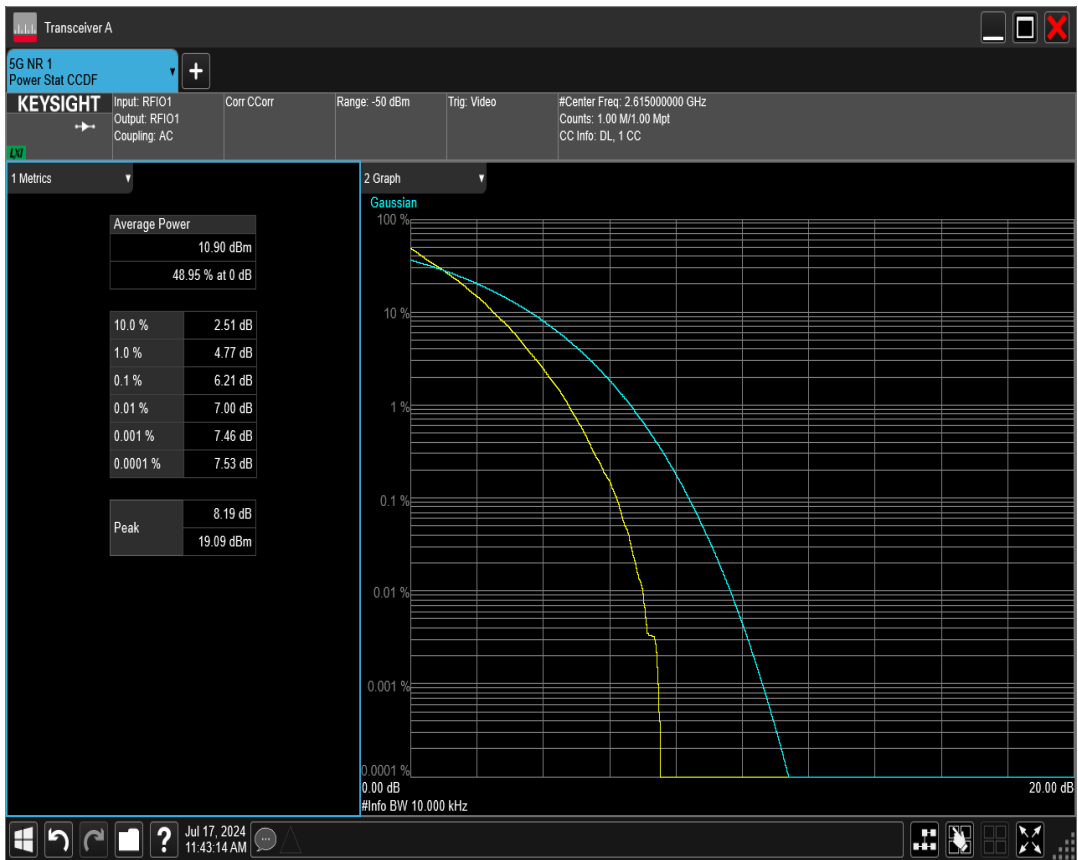
*n38 SCS=30kHz DFT\_QPSK BW=10MHz Channel=515000 RB=24@0*



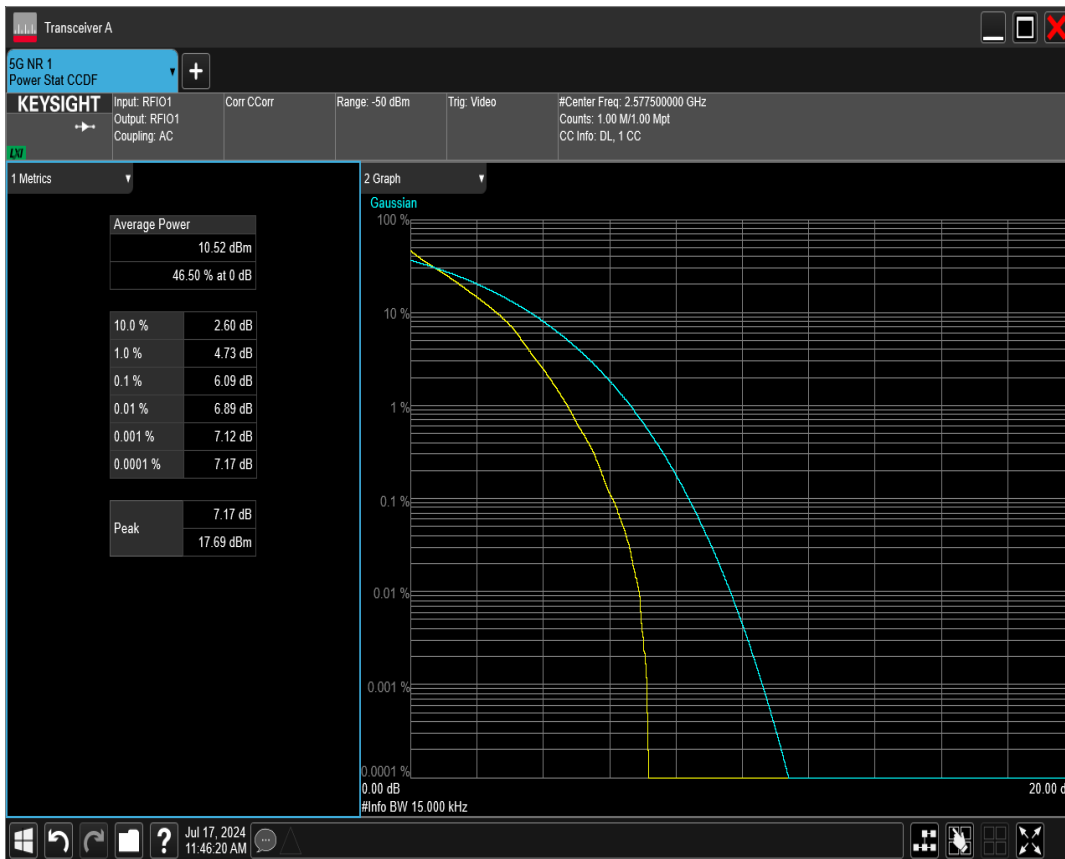
*n38 SCS=30kHz DFT\_QPSK BW=10MHz Channel=519000 RB=24@0*



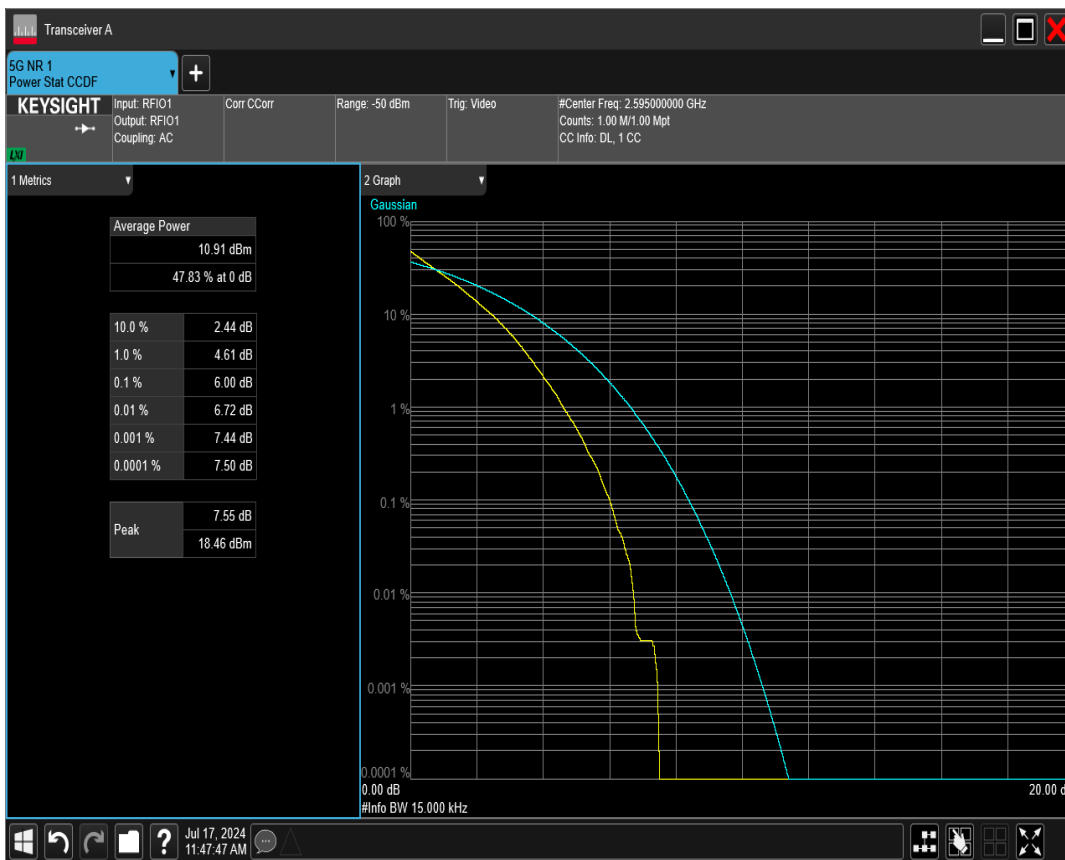
**n38 SCS=30kHz DFT\_QPSK BW=10MHz Channel=523000 RB=24 @0**



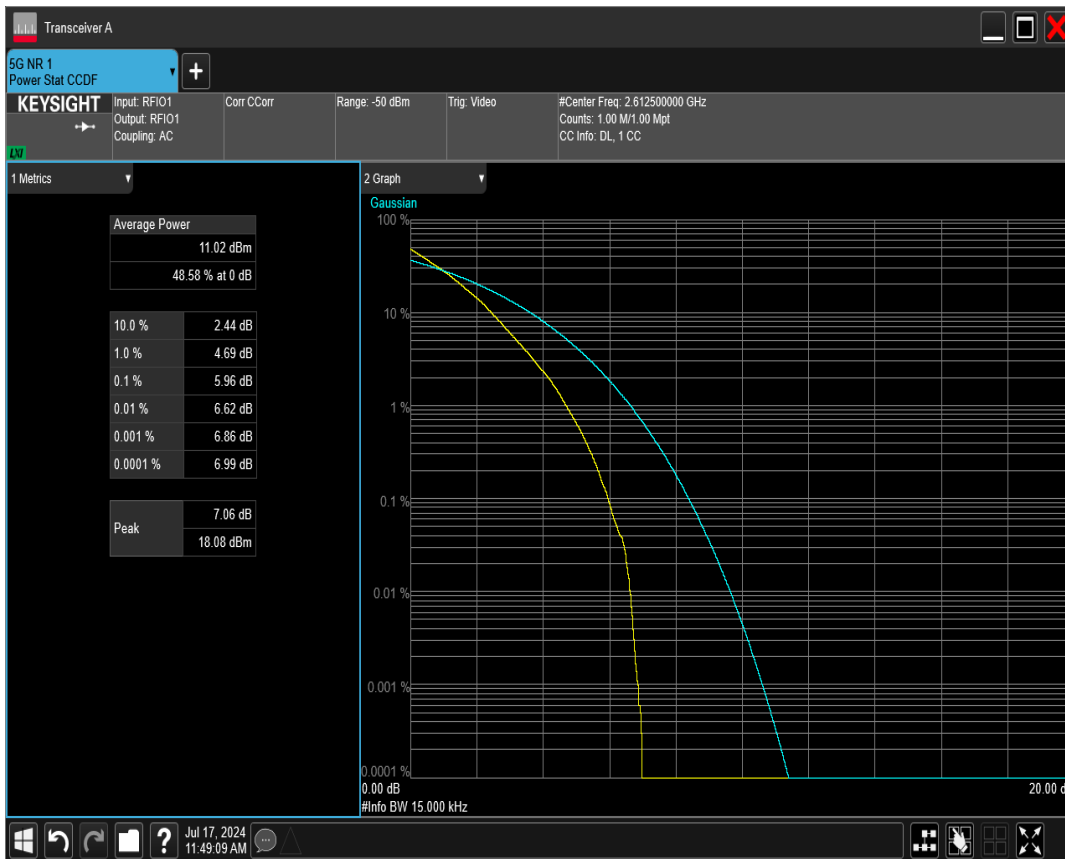
**n38 SCS=30kHz DFT\_QPSK BW=15MHz Channel=515500 RB=36 @0**



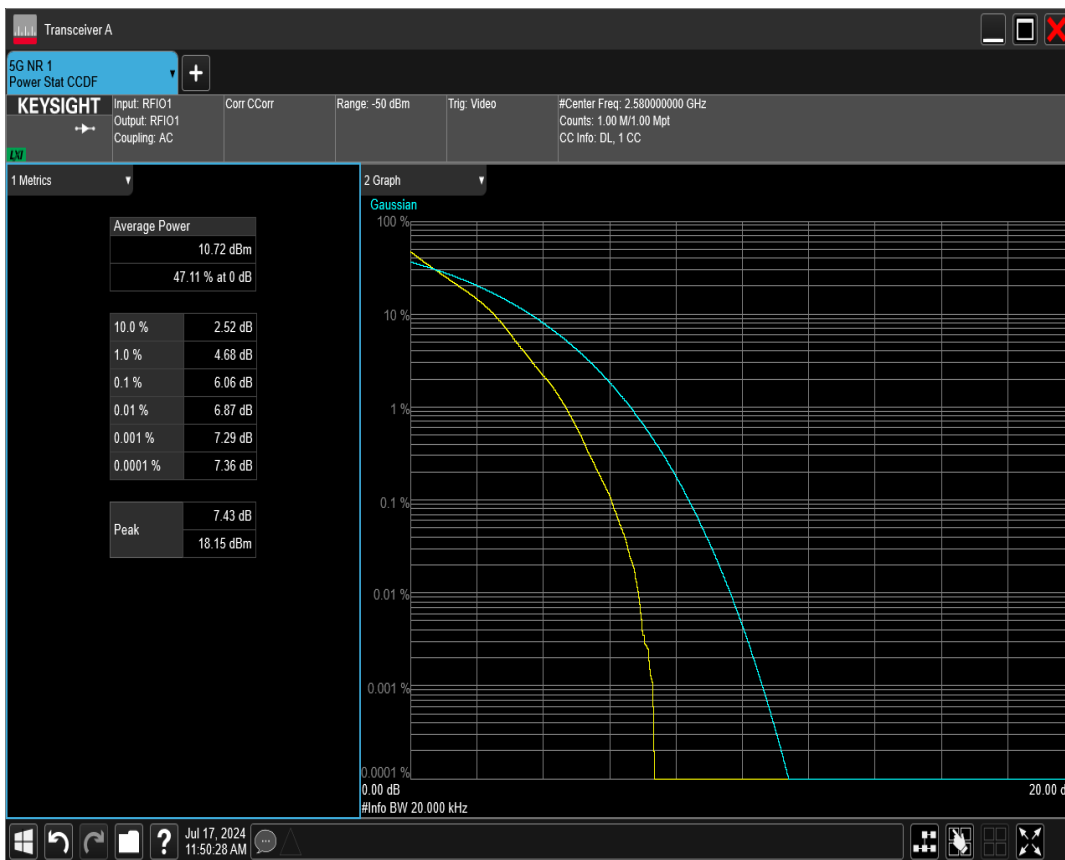
**n38 SCS=30kHz DFT\_QPSK BW=15MHz Channel=519000 RB=36@0**



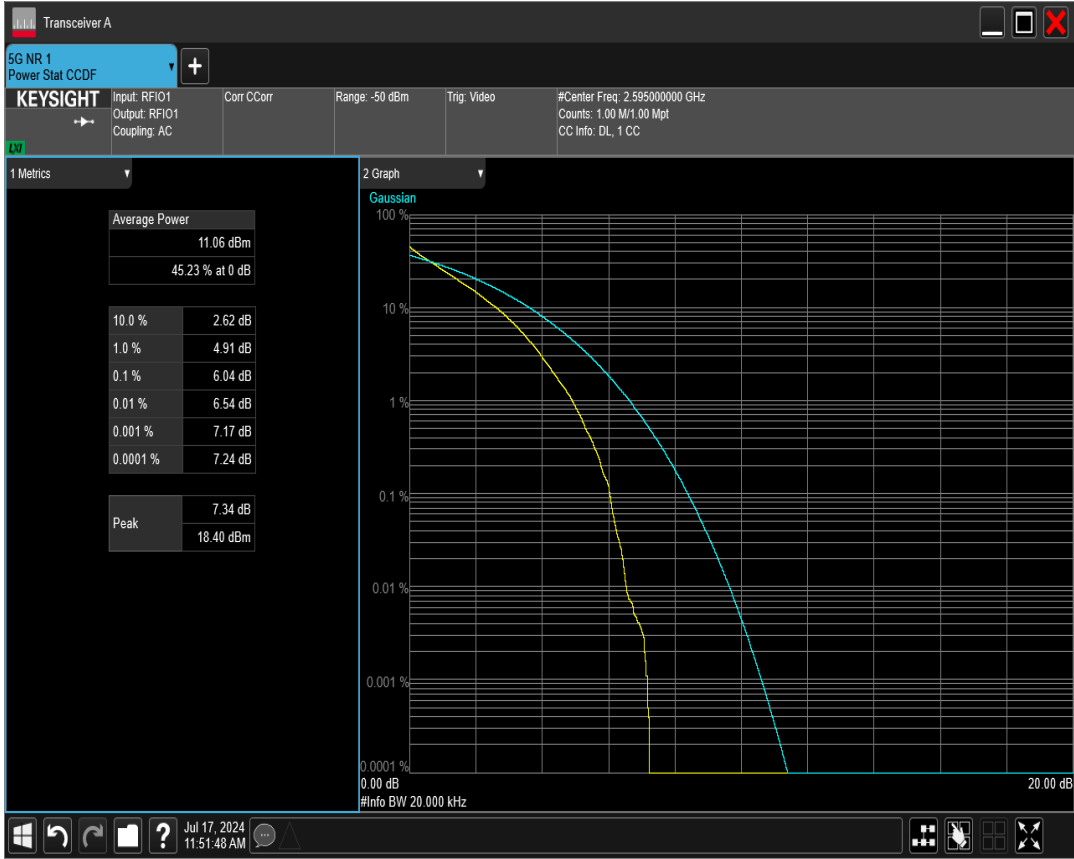
**n38 SCS=30kHz DFT\_QPSK BW=15MHz Channel=522500 RB=36@0**



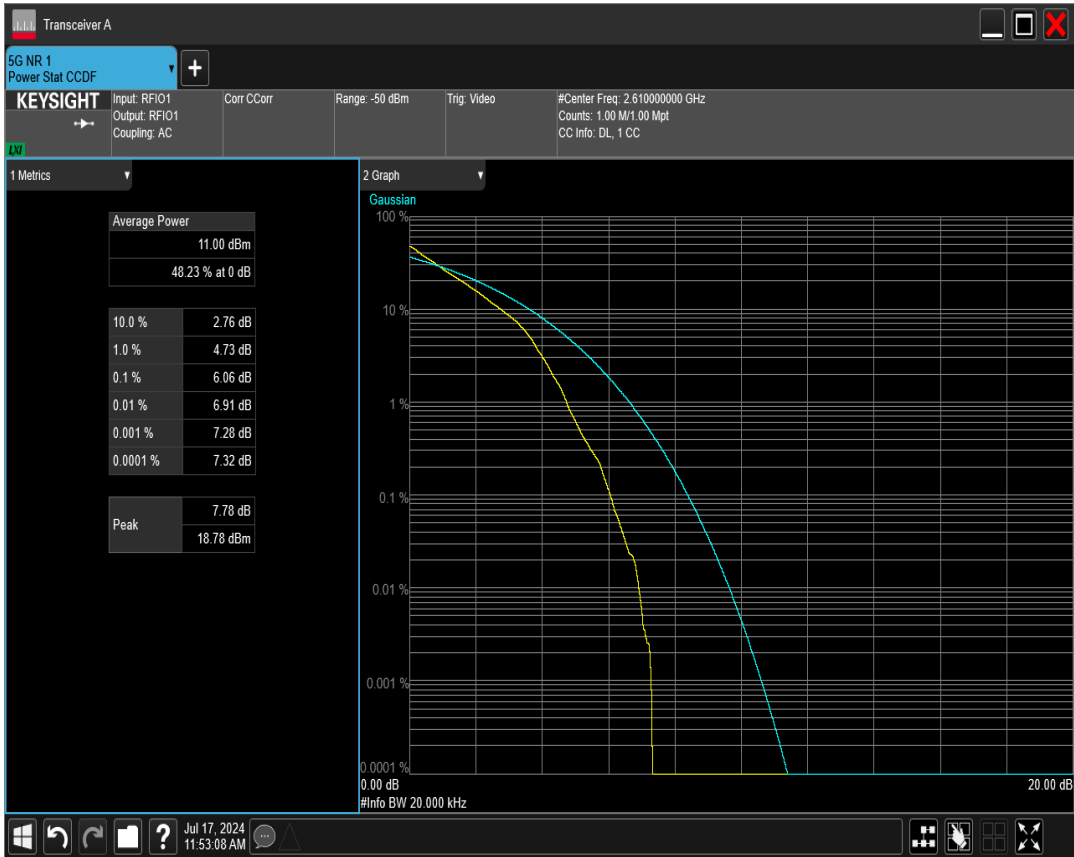
*n38 SCS=30kHz DFT\_QPSK BW=20MHz Channel=516000 RB=50@0*



*n38 SCS=30kHz DFT\_QPSK BW=20MHz Channel=519000 RB=50@0*



*n38 SCS=30kHz DFT\_QPSK BW=20MHz Channel=522000 RB=50@0*



### 4 Occupied bandwidth for EN-DC

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
n38	30	10	519000	24@0	DFT_BPSK	8.540	8.920	PASS
n38	30	10	519000	24@0	DFT_QPSK	8.570	8.970	PASS
n38	30	10	519000	24@0	DFT_QAM16	8.520	8.850	PASS
n38	30	10	519000	24@0	DFT_QAM64	8.540	8.970	PASS
n38	30	10	519000	24@0	DFT_QAM256	8.550	8.930	PASS
n38	30	15	519000	36@0	DFT_BPSK	13.450	13.320	PASS
n38	30	15	519000	36@0	DFT_QPSK	13.470	13.260	PASS
n38	30	15	519000	36@0	DFT_QAM16	13.480	13.250	PASS
n38	30	15	519000	36@0	DFT_QAM64	13.490	13.250	PASS
n38	30	15	519000	36@0	DFT_QAM256	13.470	13.240	PASS
n38	30	20	519000	50@0	DFT_BPSK	18.010	18.270	PASS
n38	30	20	519000	50@0	DFT_QPSK	17.990	18.240	PASS
n38	30	20	519000	50@0	DFT_QAM16	17.980	18.250	PASS
n38	30	20	519000	50@0	DFT_QAM64	18.080	18.290	PASS
n38	30	20	519000	50@0	DFT_QAM256	18.060	18.280	PASS

n38 SCS=30kHz DFT\_BPSK BW=10MHz Channel=519000 RB=24@0



n38 SCS=30kHz DFT\_BPSK BW=15MHz Channel=519000 RB=36@0



**n38 SCS=30kHz DFT\_BPSK BW=20MHz Channel=519000 RB=50@0**



**n38 SCS=30kHz DFT\_QAM16 BW=10MHz Channel=519000 RB=24@0**



**n38 SCS=30kHz DFT\_QAM16 BW=15MHz Channel=519000 RB=36@0**



**n38 SCS=30kHz DFT\_QAM16 BW=20MHz Channel=519000 RB=50@0**





**n38 SCS=30kHz DFT\_QAM256 BW=10MHz Channel=519000 RB=24@0**



**n38 SCS=30kHz DFT\_QAM256 BW=15MHz Channel=519000 RB=36@0**



**n38 SCS=30kHz DFT\_QAM256 BW=20MHz Channel=519000 RB=50 @0**



**n38 SCS=30kHz DFT\_QAM64 BW=10MHz Channel=519000 RB=24 @0**



**n38 SCS=30kHz DFT\_QAM64 BW=15MHz Channel=519000 RB=36@0**



**n38 SCS=30kHz DFT\_QAM64 BW=20MHz Channel=519000 RB=50@0**



**n38 SCS=30kHz DFT\_QPSK BW=10MHz Channel=519000 RB=24 @0**



**n38 SCS=30kHz DFT\_QPSK BW=15MHz Channel=519000 RB=36 @0**