

# FCC LTE Band5 Test Data

General Description of EUT	
<b>Product Name:</b>	GPS Tracker G28
<b>Test Model:</b>	G28S
<b>Sample ID:</b>	RW-C-202304-0245-3-2#
Environmental Conditions	
<b>Temperature:</b>	24.4°C
<b>Relative Humidity:</b>	50%
<b>Test Voltage:</b>	DC 3.7V
<b>Test Engineer:</b>	Huangjianping
Note: For a more detailed features description, please refer to the report TBR-C-202304-0245-71.	



## Appendix A: Conducted Output Power Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.18	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.85	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.39	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.61	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.42	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.60	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.39	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.56	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.83	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.81	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.75	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.73	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.58	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.74	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.81	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.76	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.31	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.86	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.86	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.57	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.66	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.97	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.97	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.23	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.72	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.41	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.50	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.10	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.12	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.99	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.24	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.71	PASS



Band5	1.4MHz	16QAM	20525	3RB#3	22.27	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.51	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.52	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.15	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.48	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.57	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.89	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.52	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.46	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.28	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.01	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.20	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.02	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.92	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.91	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.71	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.40	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.05	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.90	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.05	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.92	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.74	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.90	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.42	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.82	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.33	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.15	PASS
Band5	3MHz	QPSK	20635	8RB#4	21.93	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.78	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.01	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.48	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.39	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.44	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.86	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.80	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.14	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.83	PASS



Band5	3MHz	16QAM	20525	1RB#0	22.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.27	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.20	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.58	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.61	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.81	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.05	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.73	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.15	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.16	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.70	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.75	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.54	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.06	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.15	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.06	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.92	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.96	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.91	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.84	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.94	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.36	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.87	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.47	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.54	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.09	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.83	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.92	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.07	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.96	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.83	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.80	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.71	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.66	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.68	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.28	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.76	PASS



Band5	5MHz	16QAM	20425	1RB#24	22.49	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.71	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.08	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.76	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.06	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.15	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.41	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.15	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.51	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.57	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.49	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.88	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.91	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.67	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.38	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.59	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.79	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.66	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.73	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.84	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.82	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.49	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.71	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.06	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.20	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.03	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.69	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.83	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.73	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.77	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.59	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.52	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.77	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.27	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.39	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.44	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.39	PASS



Band5	10MHz	QPSK	20600	25RB#12	21.93	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.59	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.33	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.74	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.95	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.73	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.67	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.72	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.26	PASS
Band5	10MHz	16QAM	20450	27RB#0	21.65	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.14	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.09	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.91	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.74	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.19	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.06	PASS
Band5	10MHz	16QAM	20525	27RB#0	21.93	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.11	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.89	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.34	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.55	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.98	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.81	PASS
Band5	10MHz	16QAM	20600	27RB#0	21.11	PASS



## Appendix B: Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20415	1RB#0	4.60	13	PASS
Band5	1.4MHz	QPSK	20415	6RB#0	4.96	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.74	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.16	13	PASS
Band5	1.4MHz	QPSK	20635	1RB#0	3.71	13	PASS
Band5	1.4MHz	QPSK	20635	6RB#0	4.47	13	PASS
Band5	1.4MHz	16QAM	20415	1RB#0	5.47	13	PASS
Band5	1.4MHz	16QAM	20415	6RB#0	5.77	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.57	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.94	13	PASS
Band5	1.4MHz	16QAM	20635	1RB#0	4.52	13	PASS
Band5	1.4MHz	16QAM	20635	6RB#0	5.37	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.51	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.00	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.50	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.16	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	3.61	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.47	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.33	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	5.83	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.35	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.99	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	4.42	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.36	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.82	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.06	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.75	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.22	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.07	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.62	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.51	13	PASS

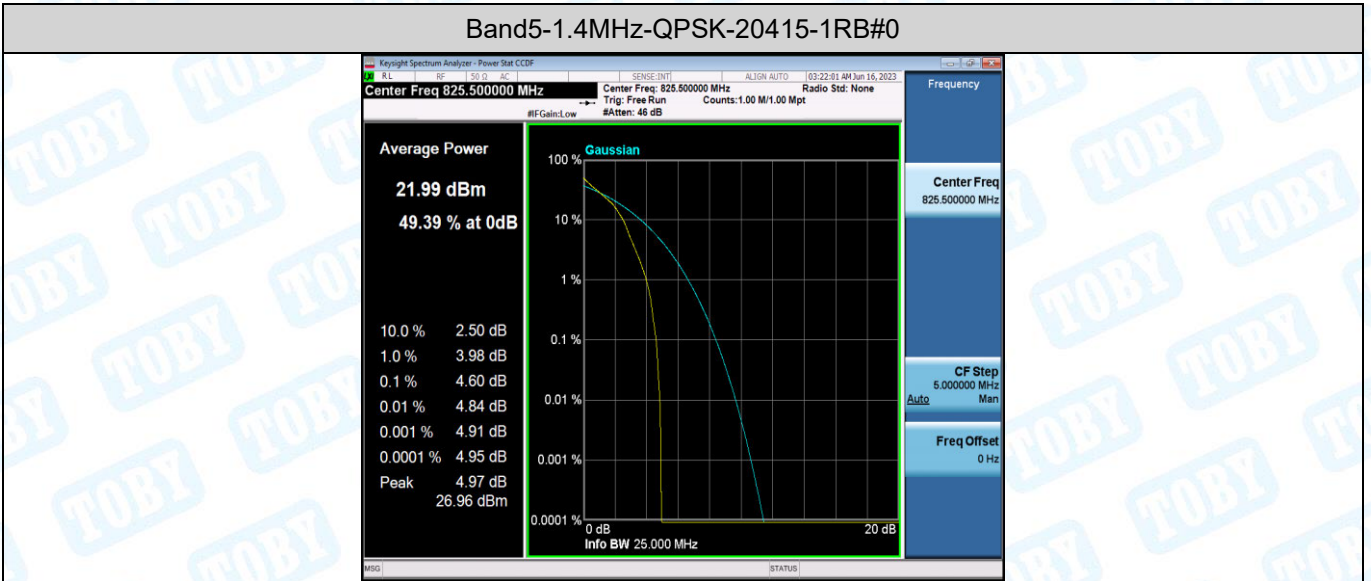


Band5	5MHz	16QAM	20425	25RB#0	5.83	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.23	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	5.96	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	4.84	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.48	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.52	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.04	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.21	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.15	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.51	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.96	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.42	13	PASS
Band5	10MHz	16QAM	20450	27RB#0	5.76	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.06	13	PASS
Band5	10MHz	16QAM	20525	27RB#0	5.76	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.32	13	PASS
Band5	10MHz	16QAM	20600	27RB#0	5.83	13	PASS

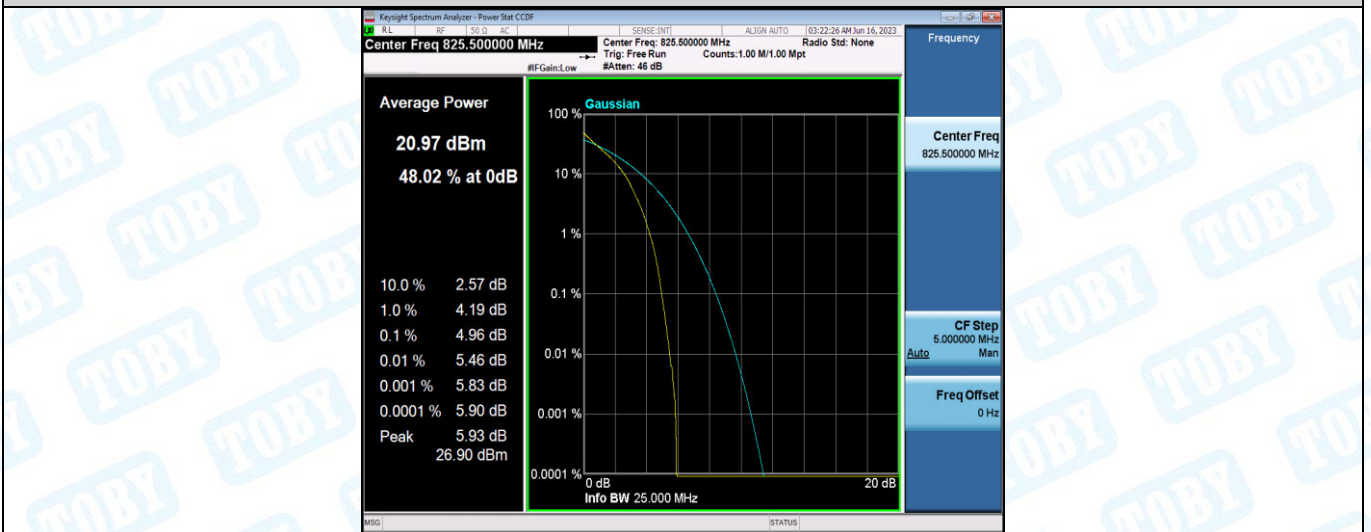


**Test Graphs**

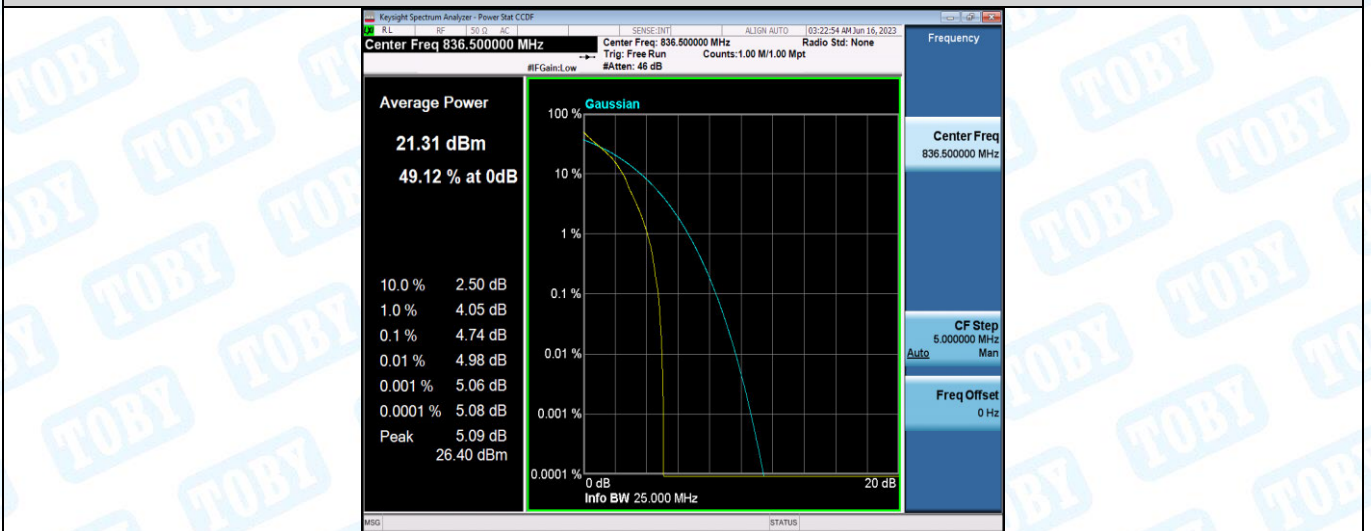
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**Band5-1.4MHz-QPSK-20415-6RB#0**

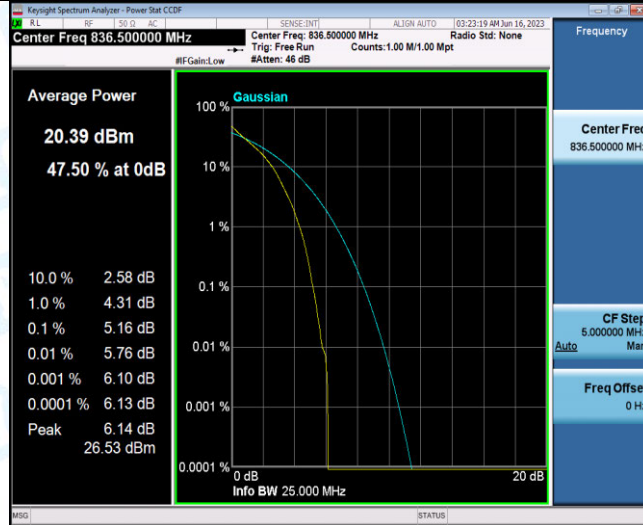


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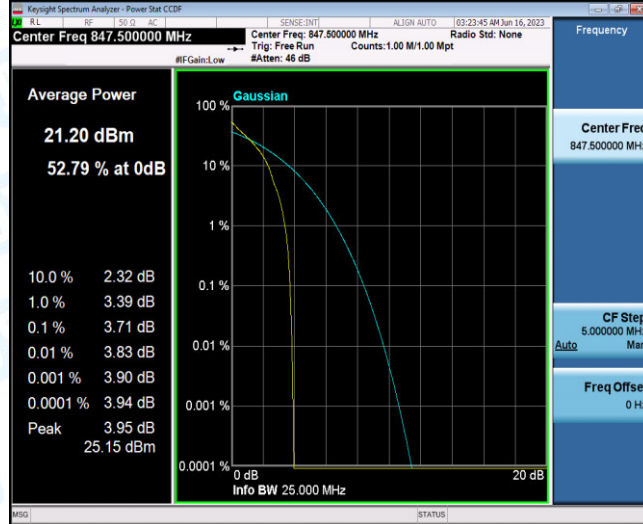




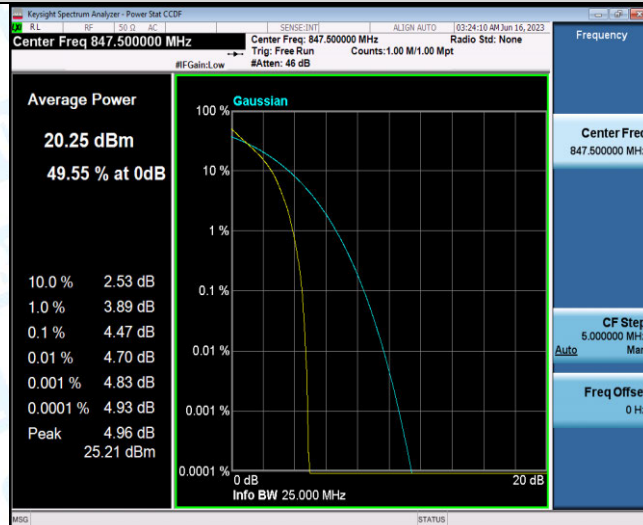
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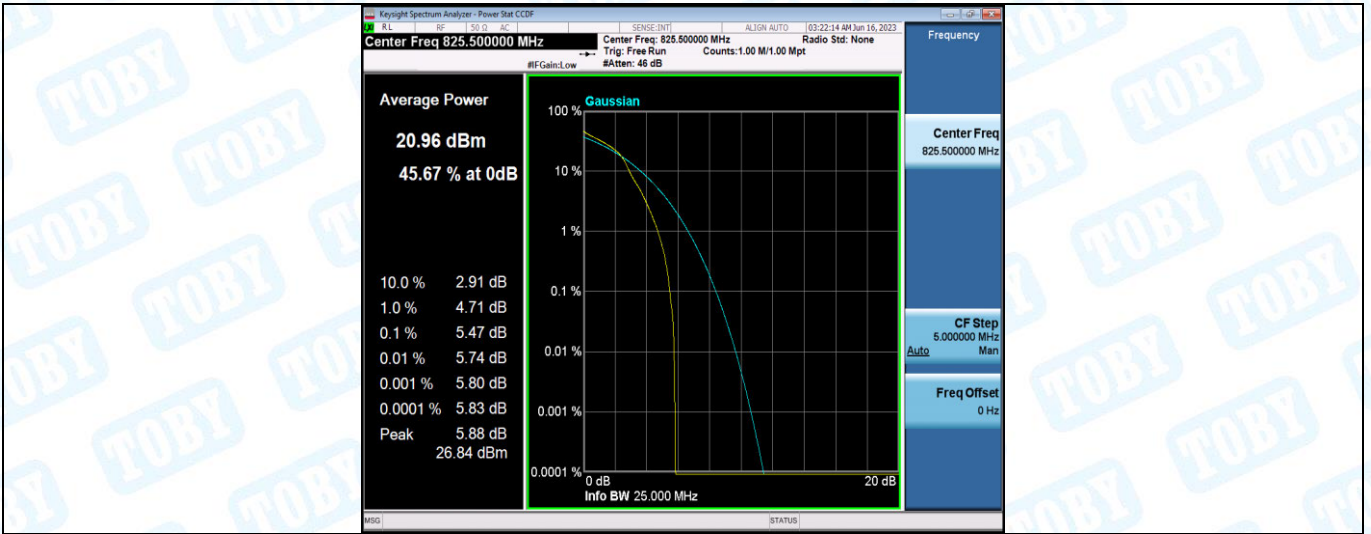


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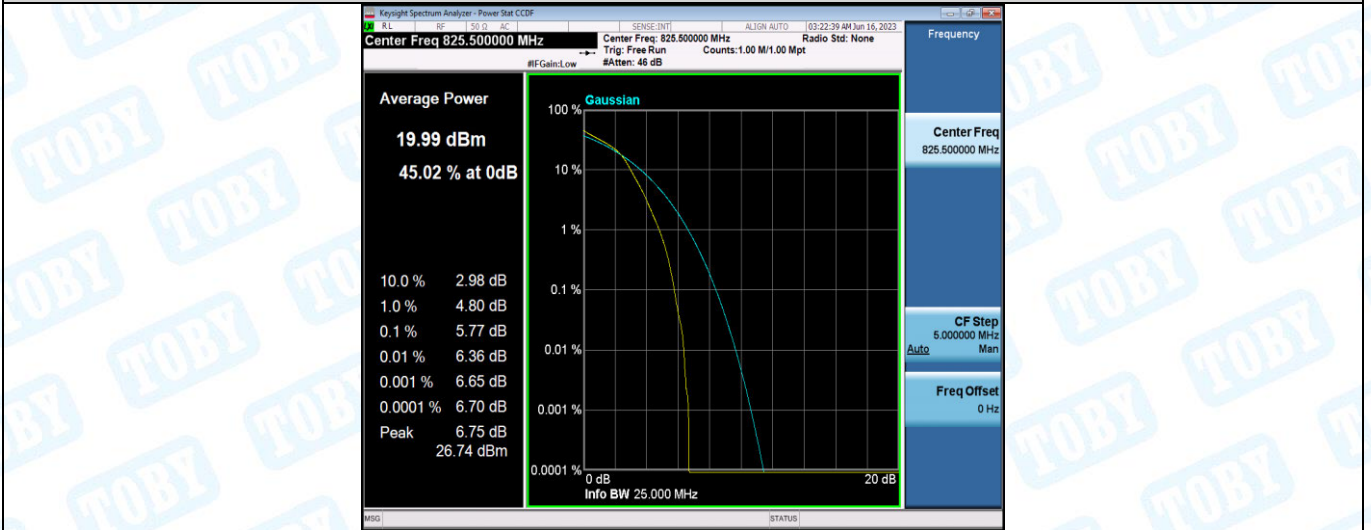


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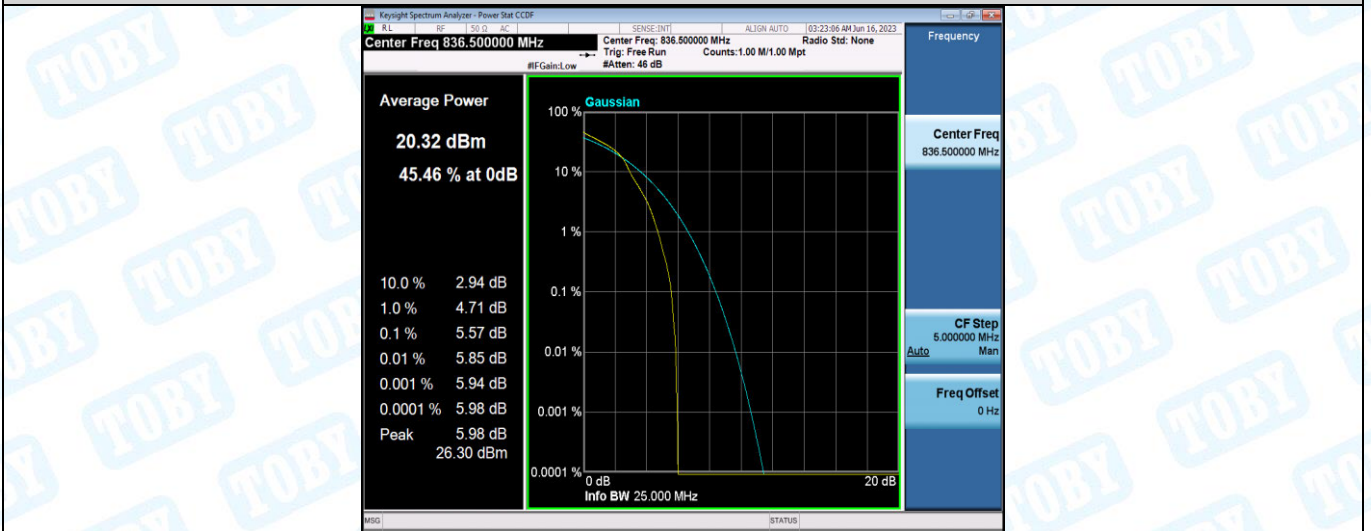




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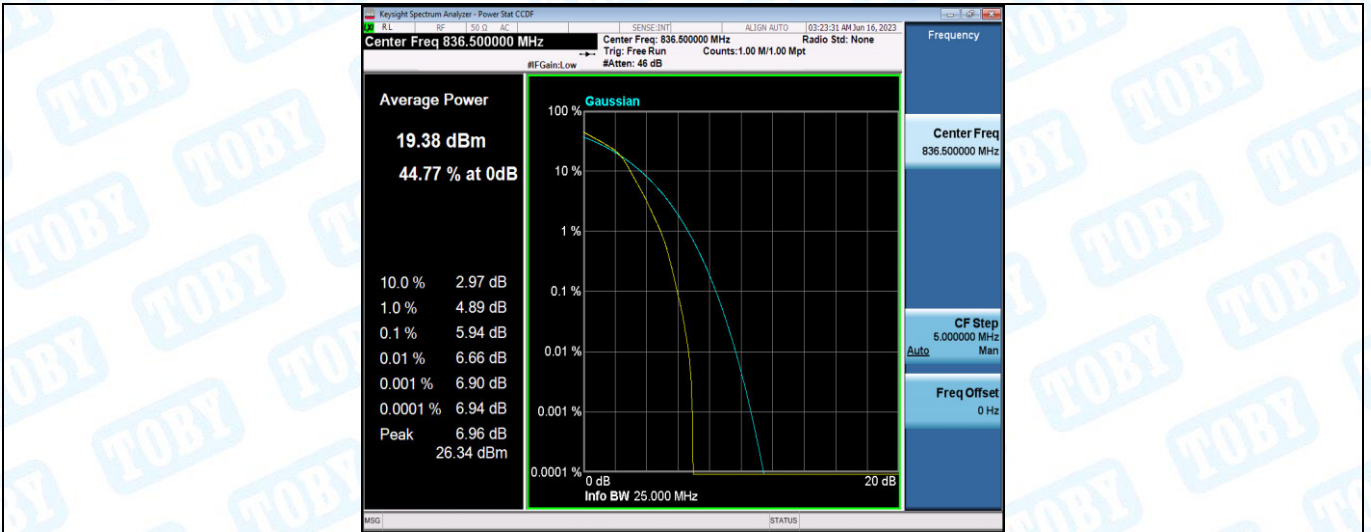


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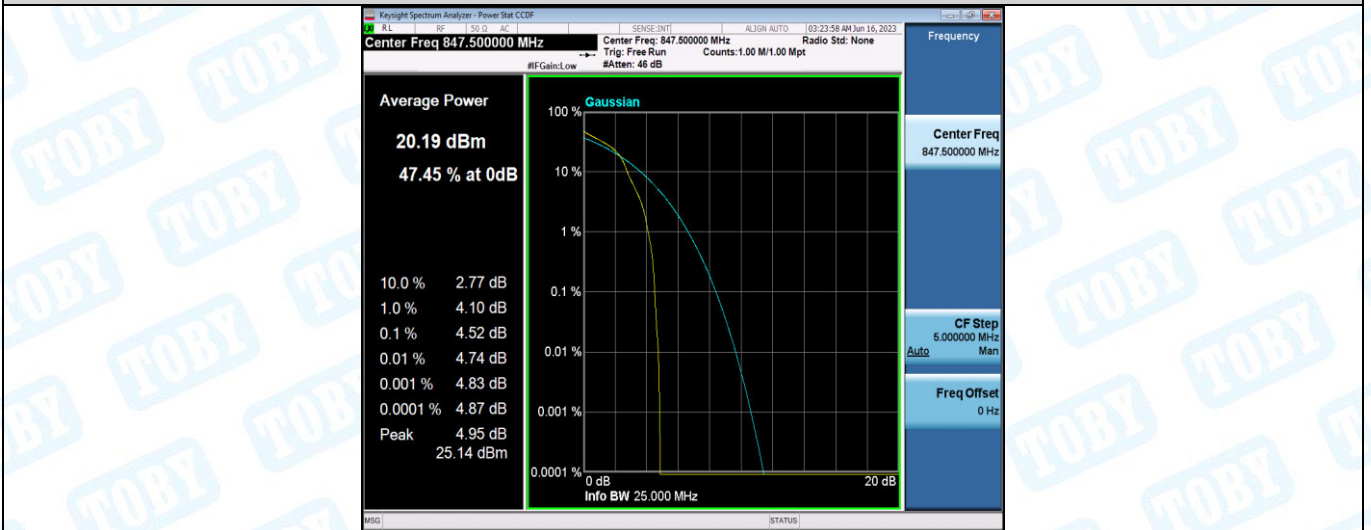


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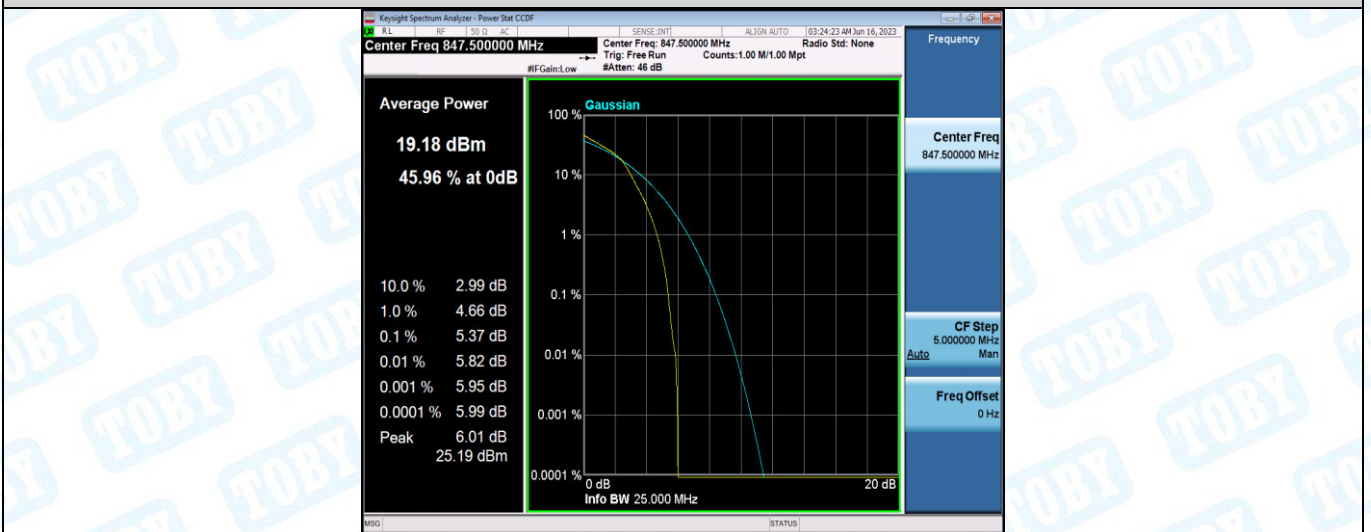




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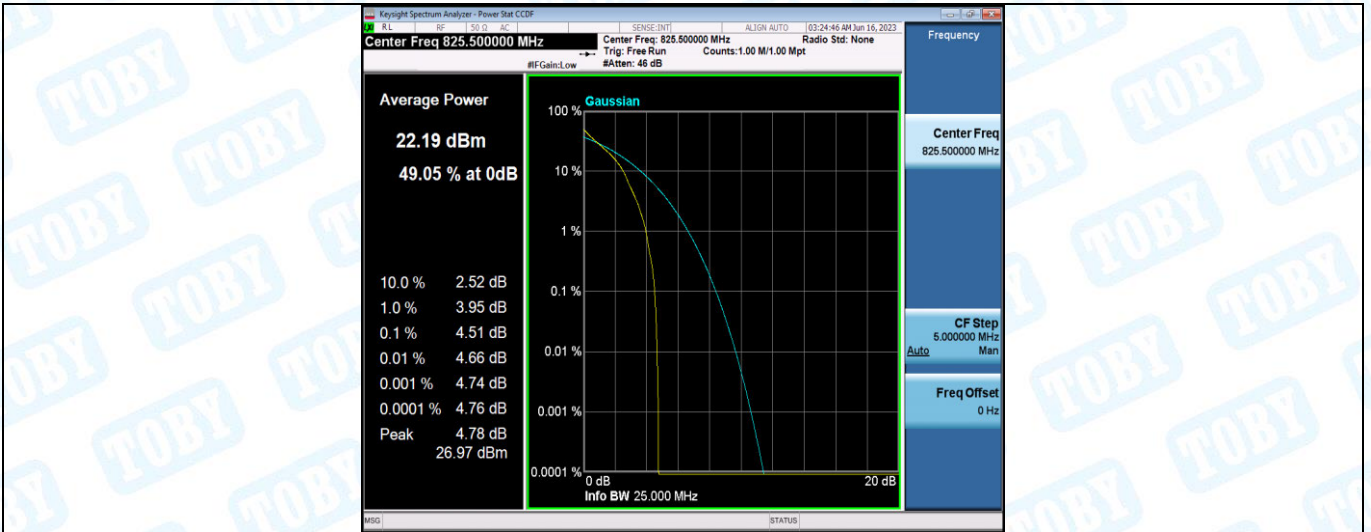


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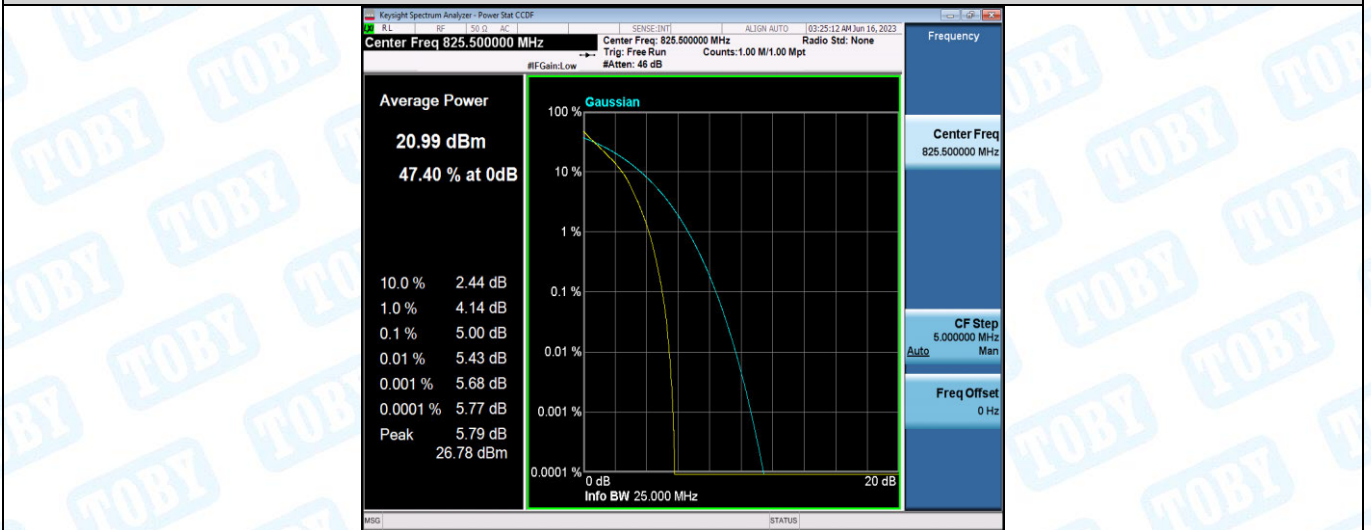


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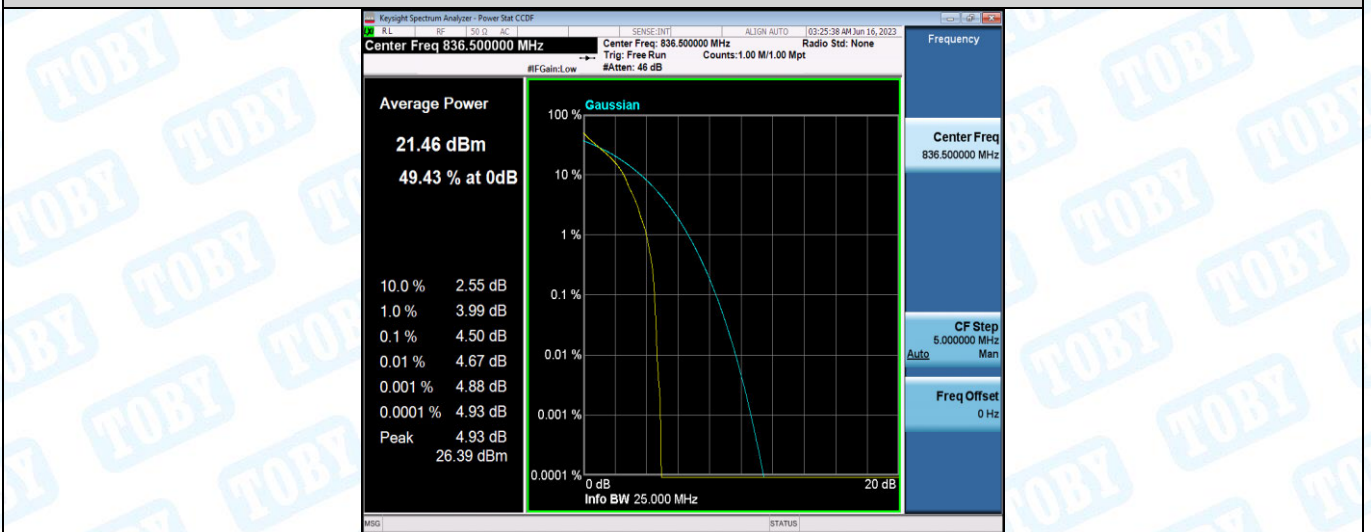




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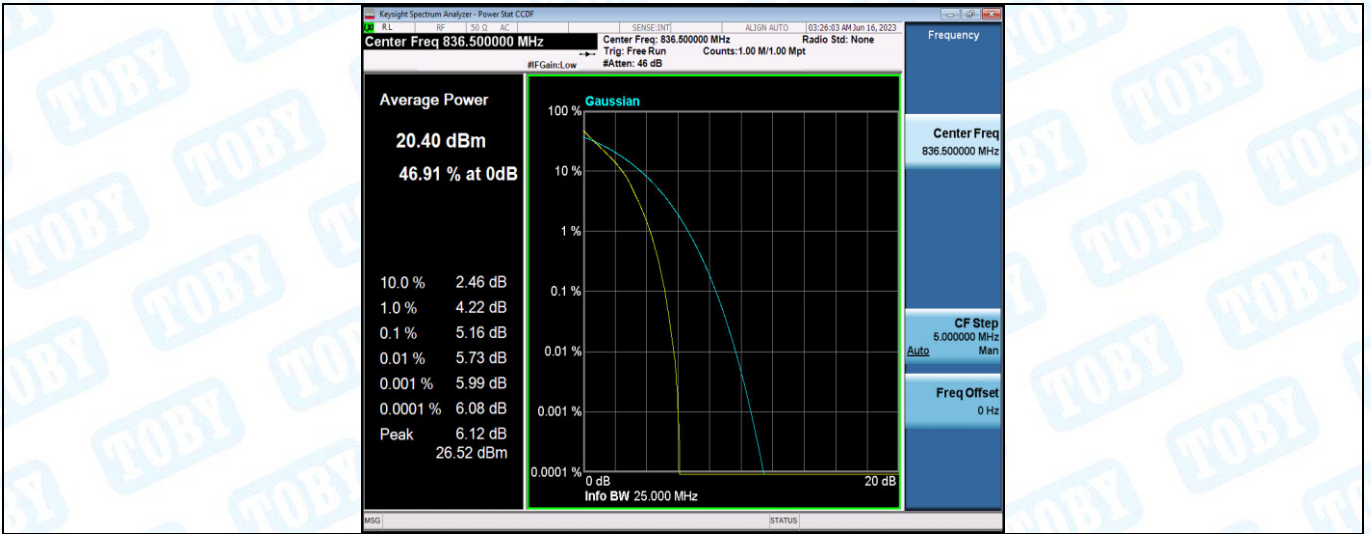


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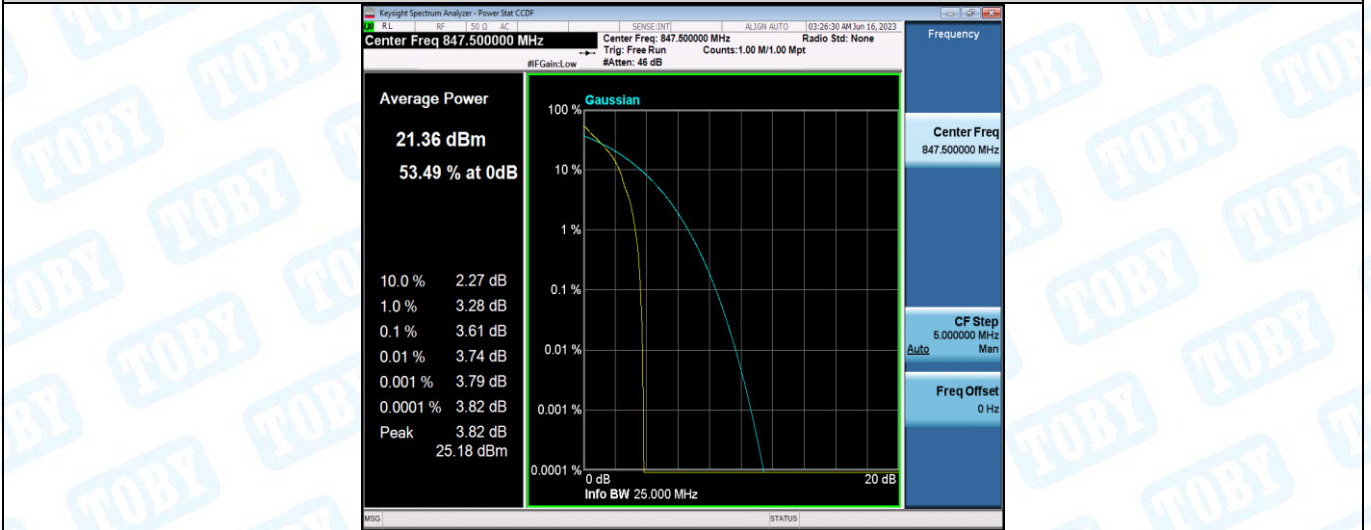


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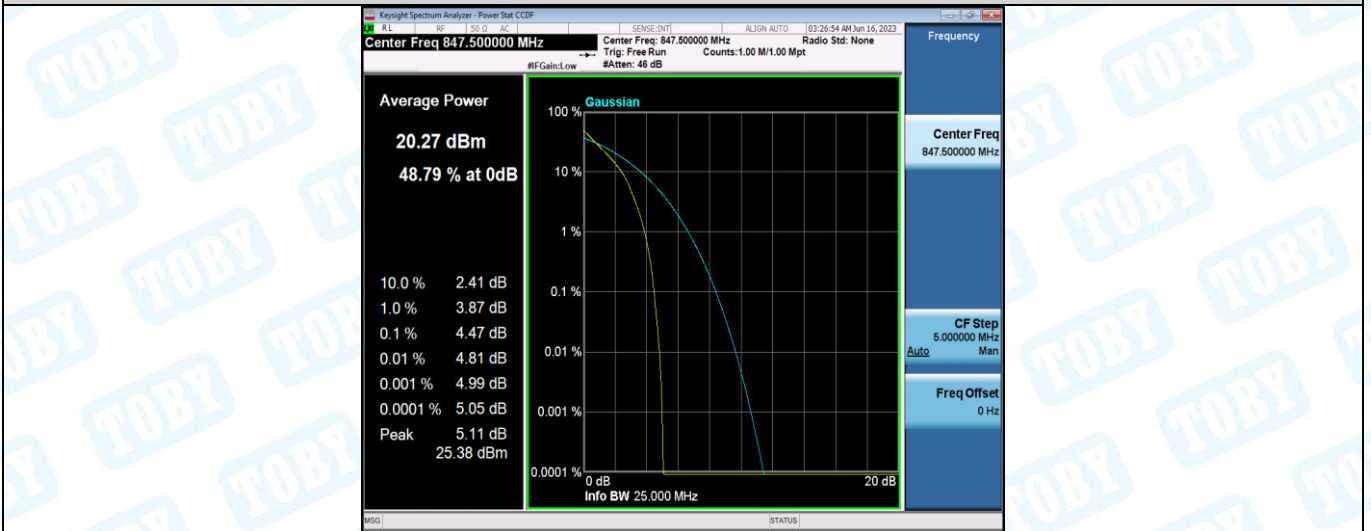




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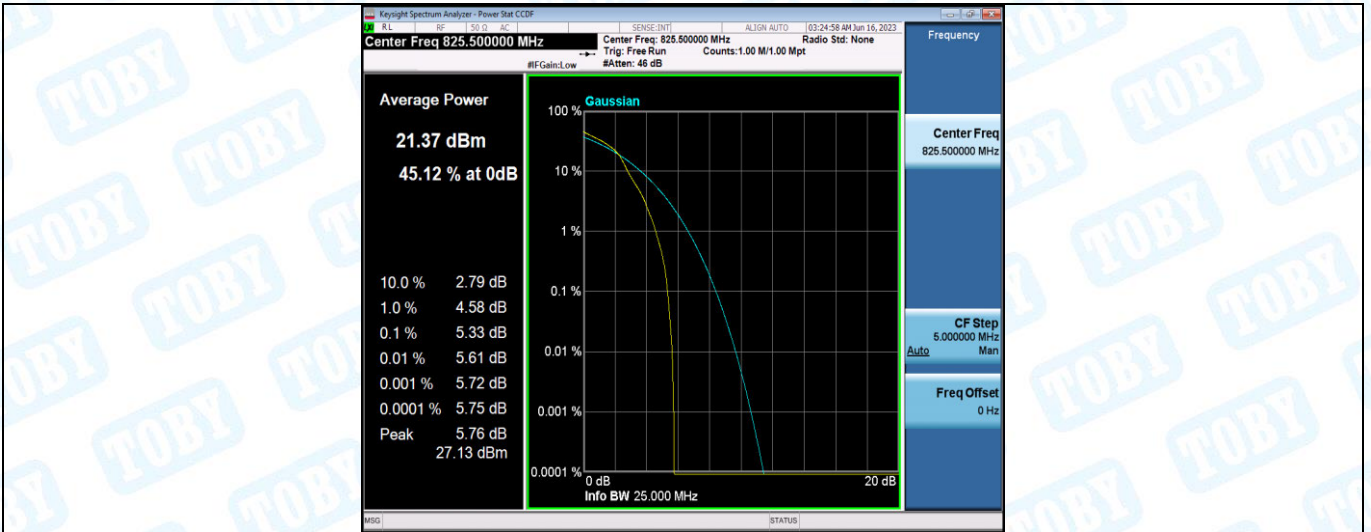


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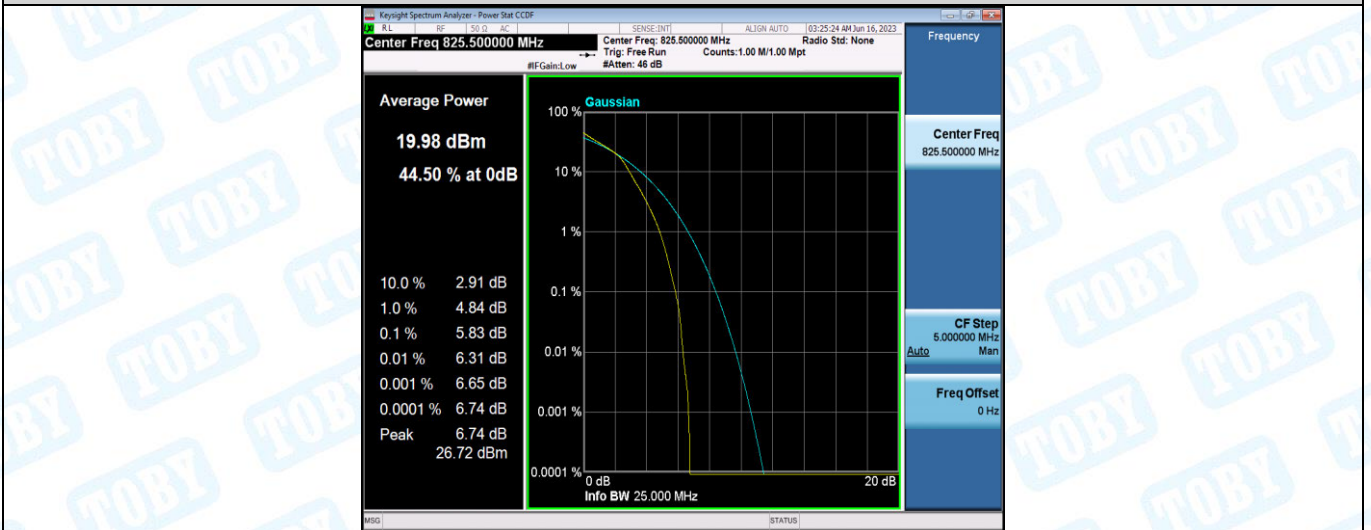


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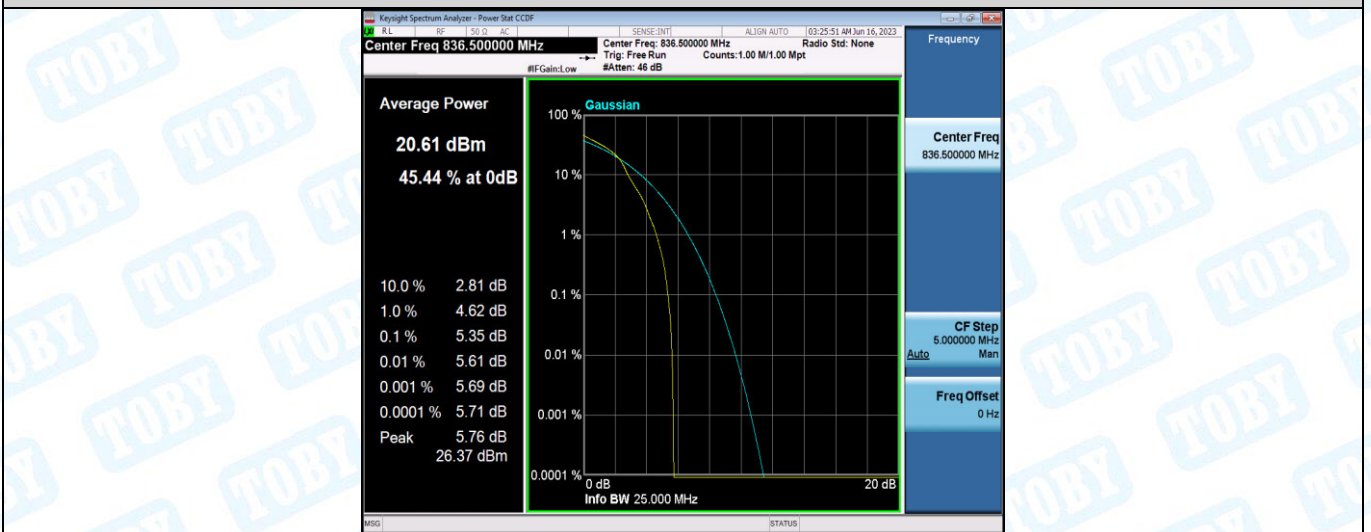




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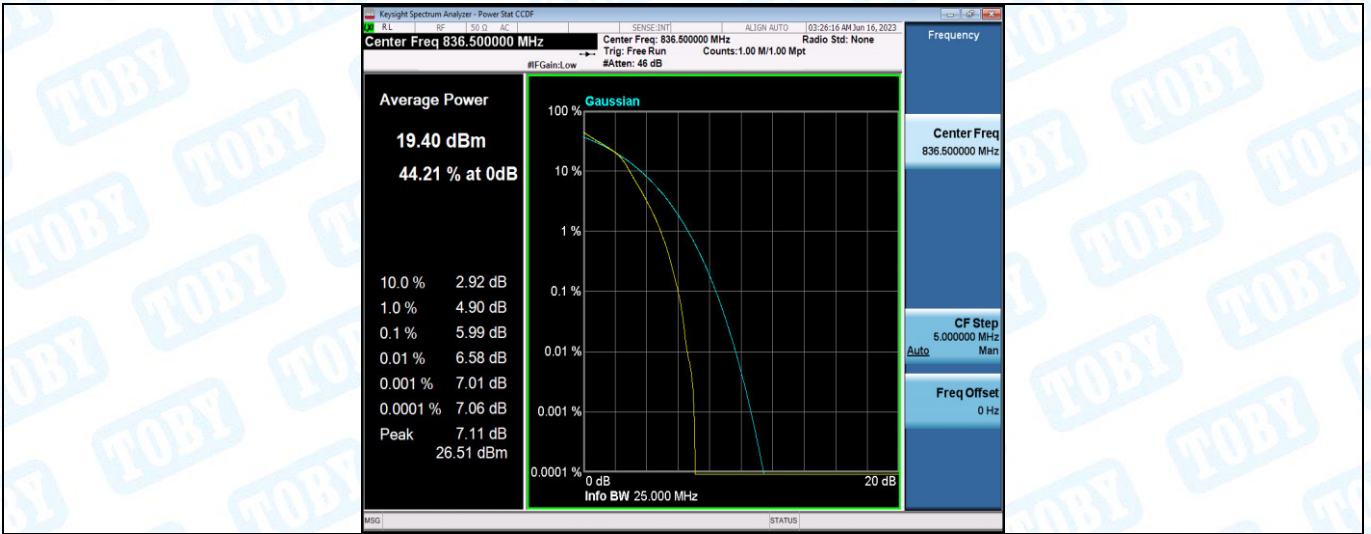


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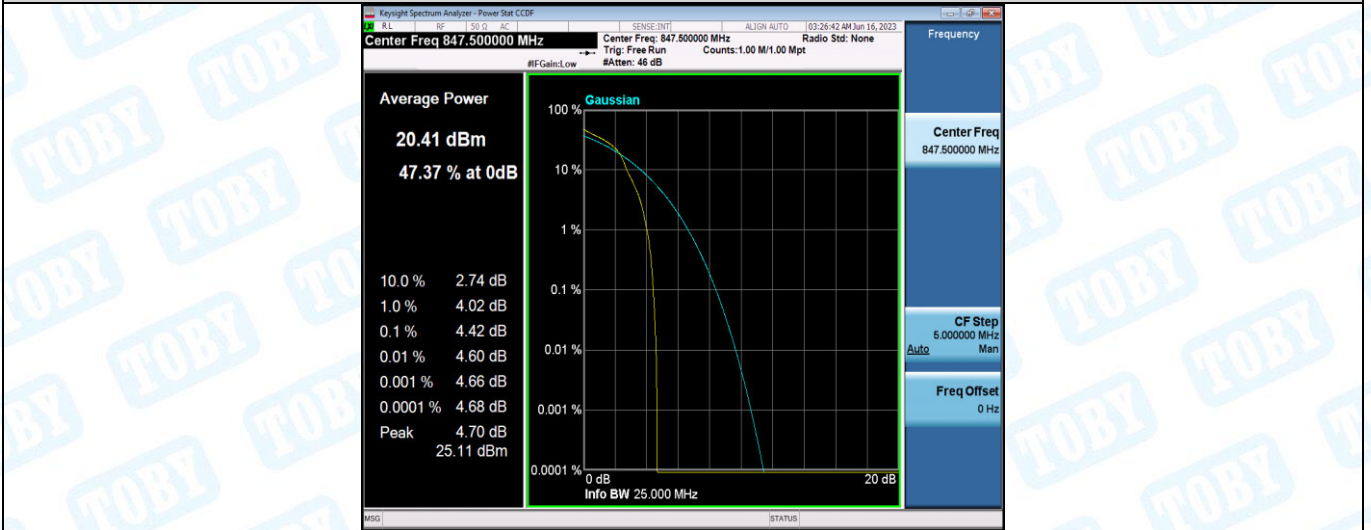


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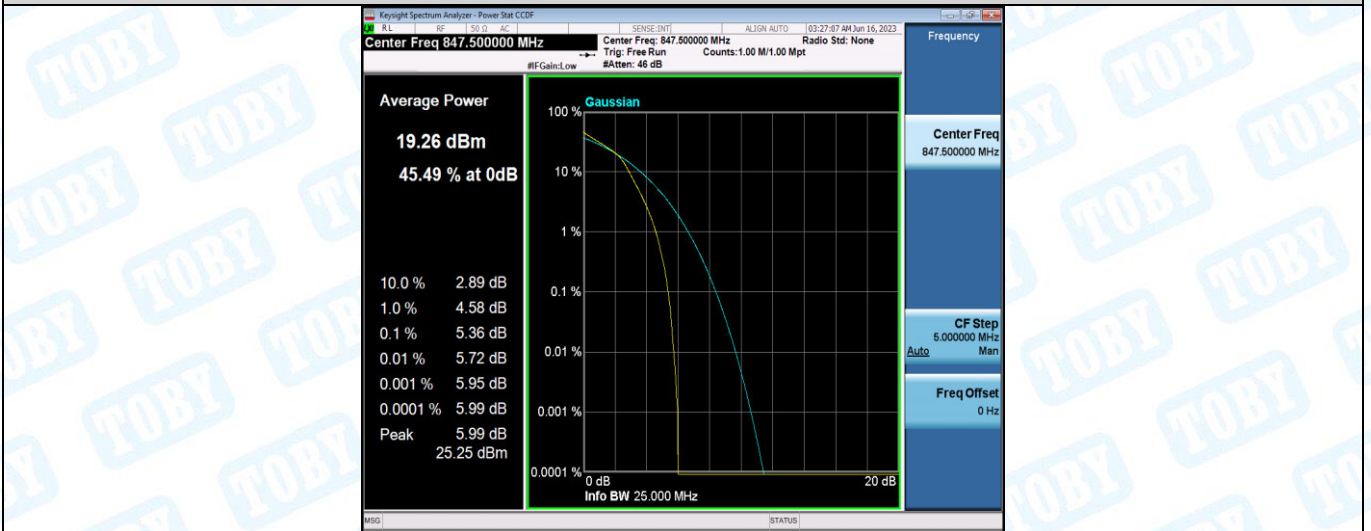




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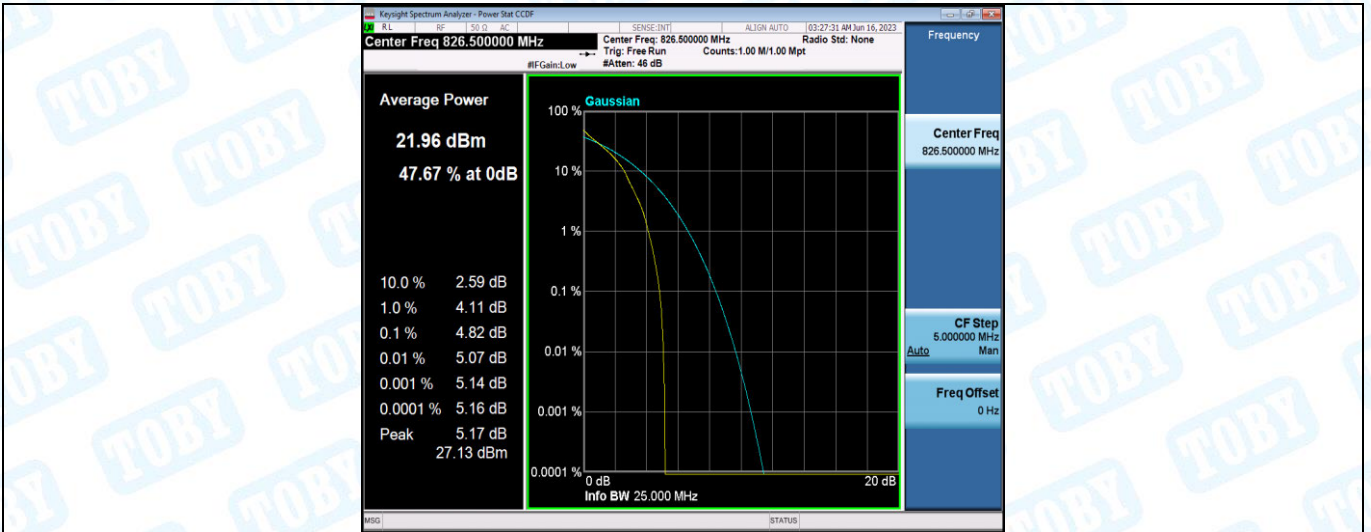


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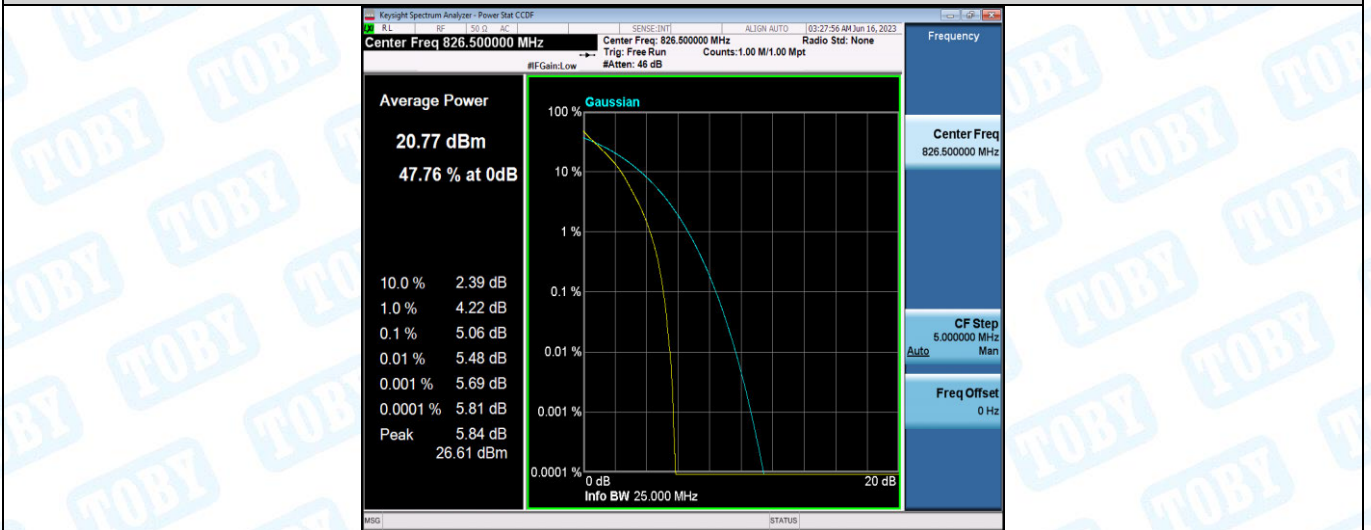


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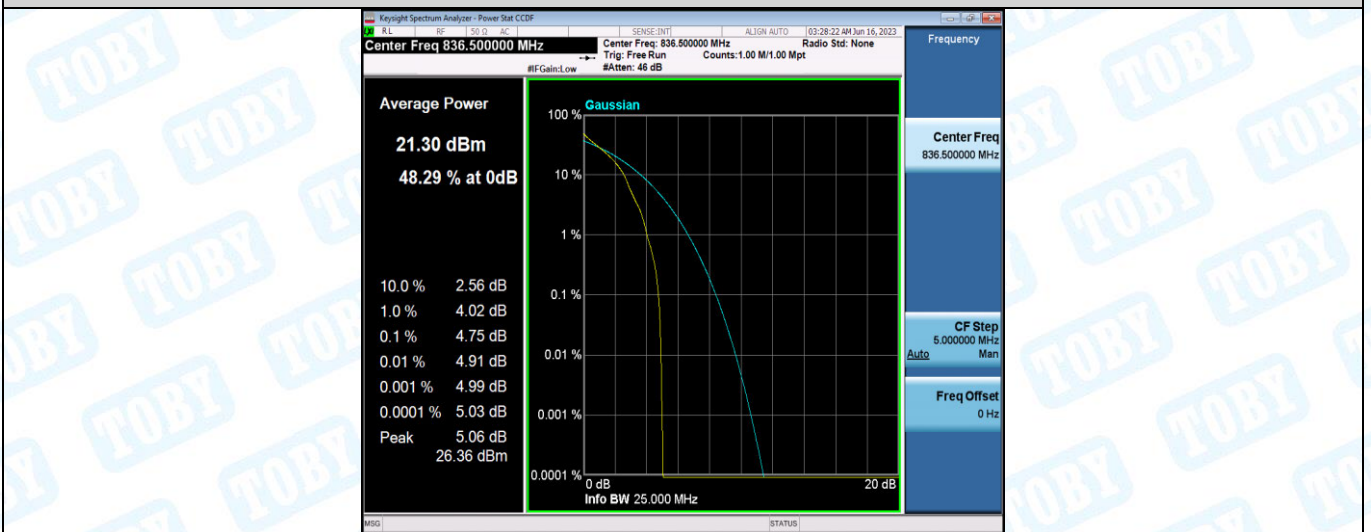




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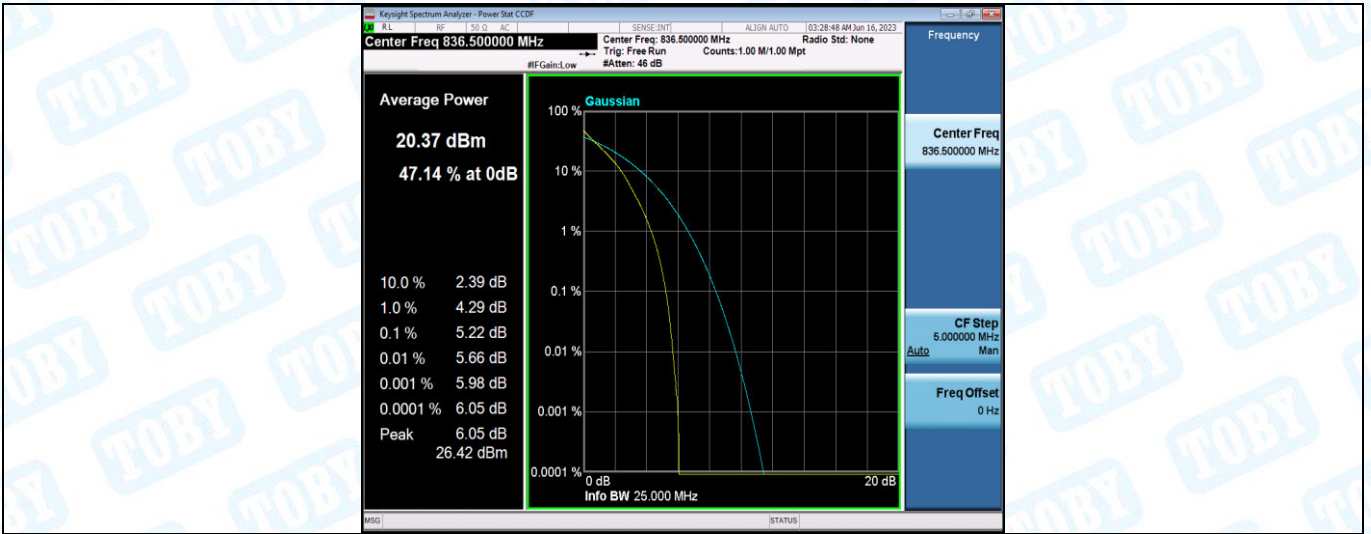


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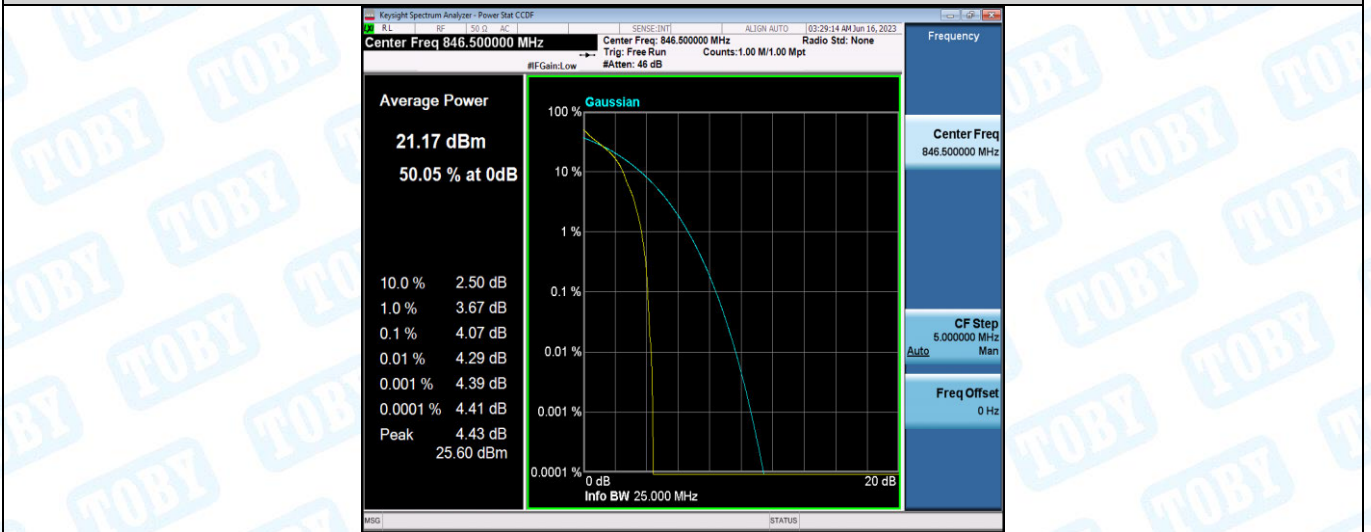


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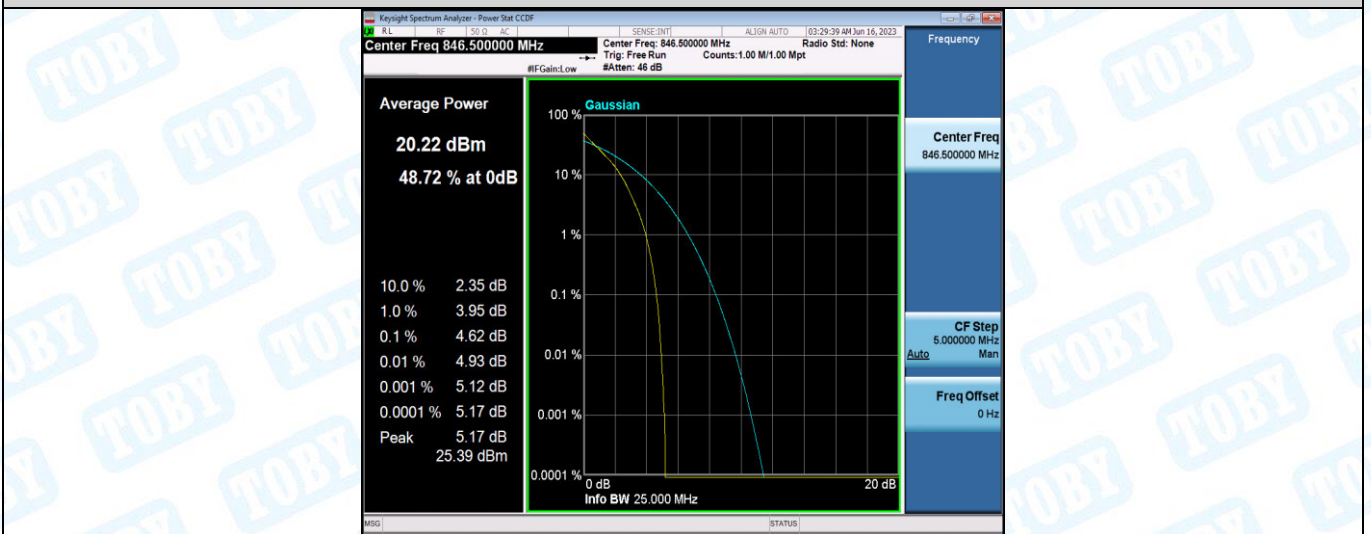




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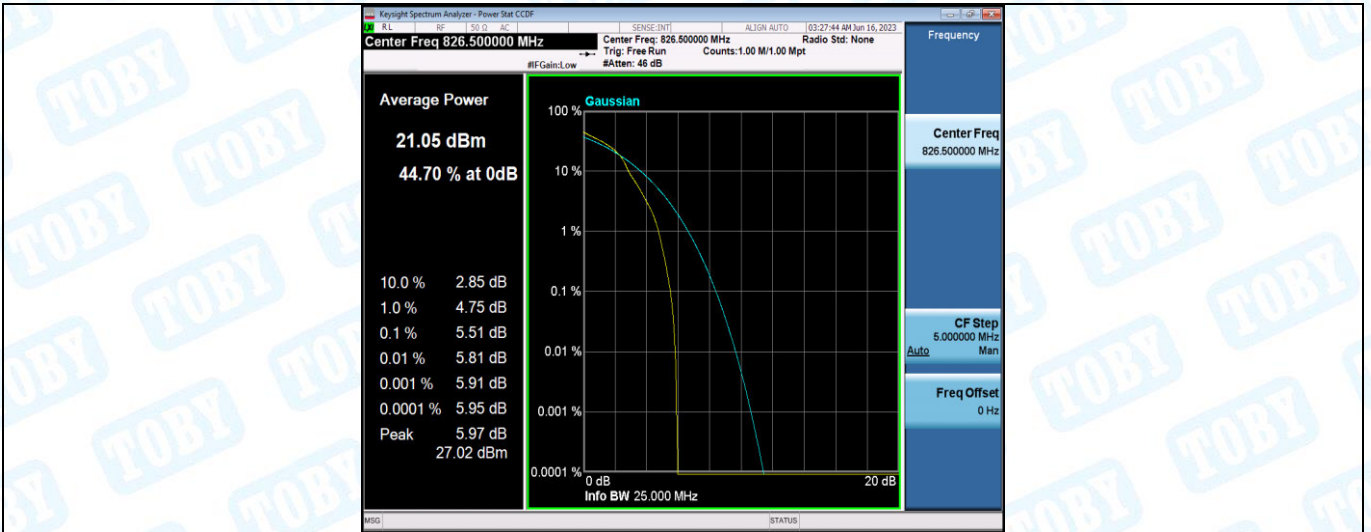


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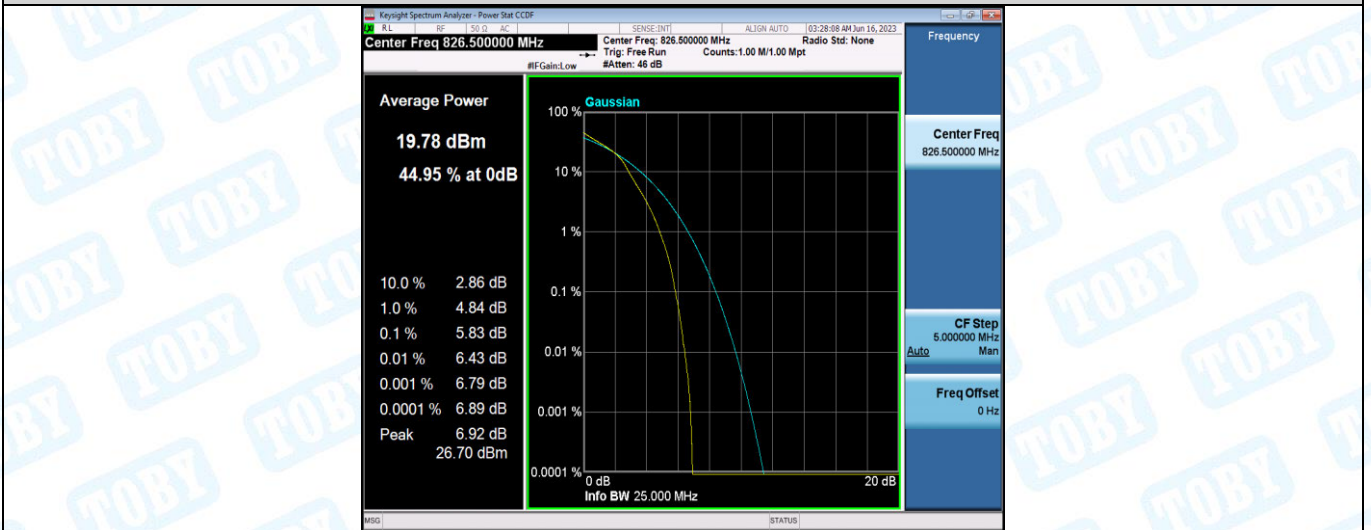


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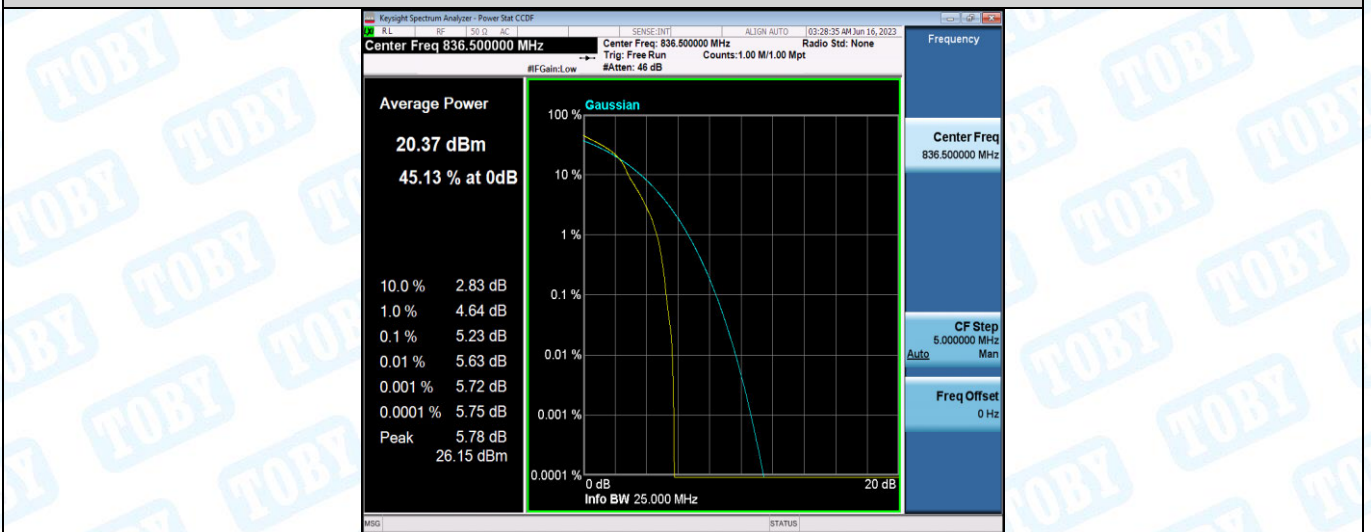




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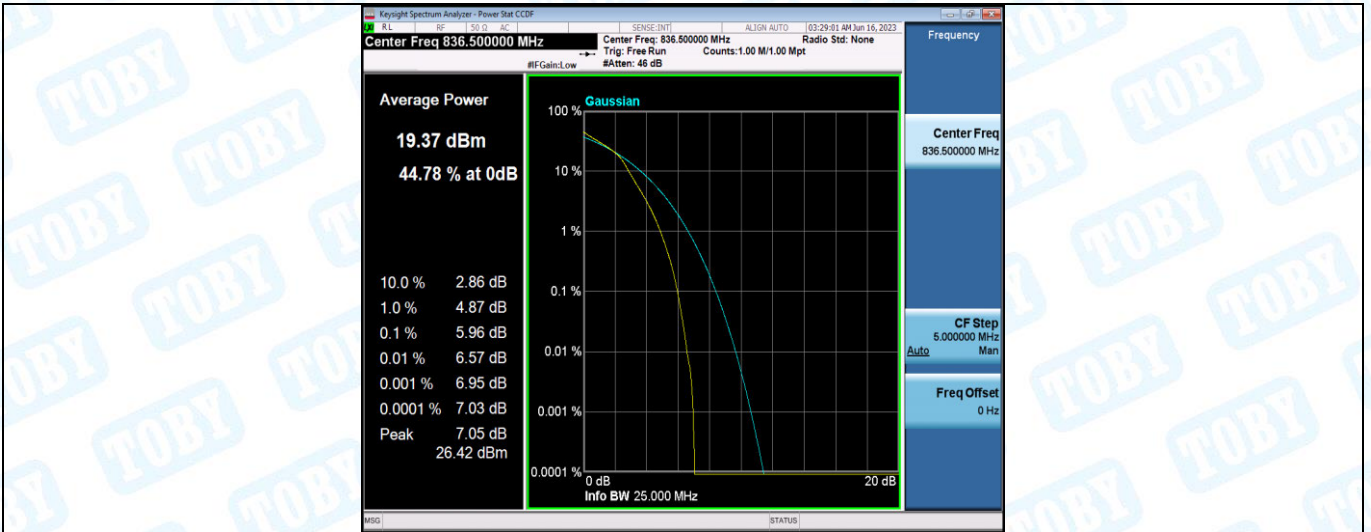


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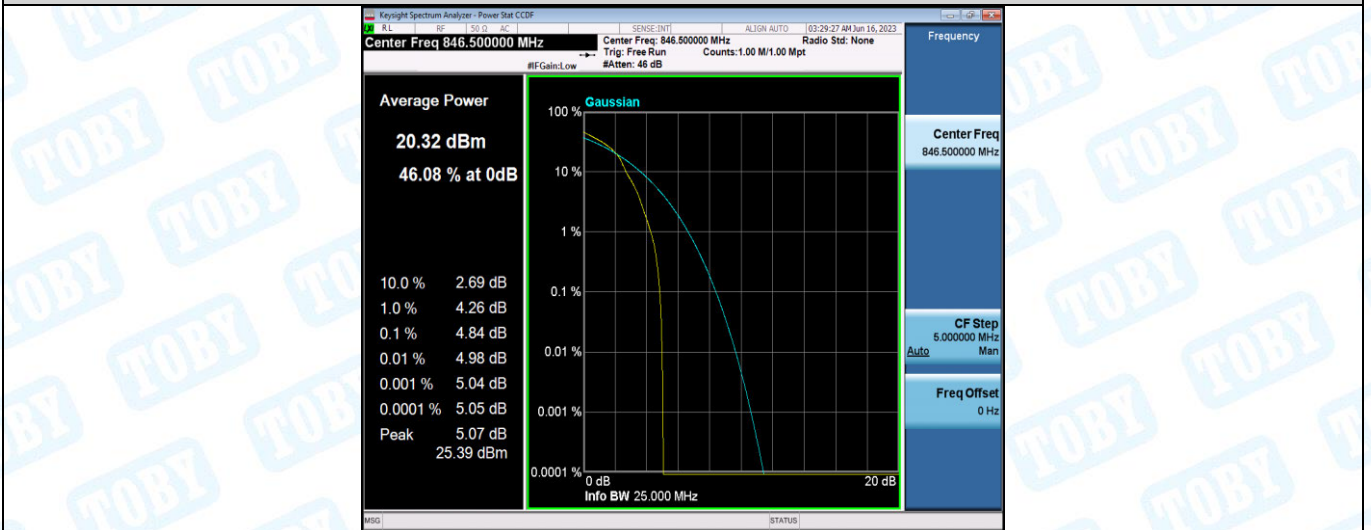


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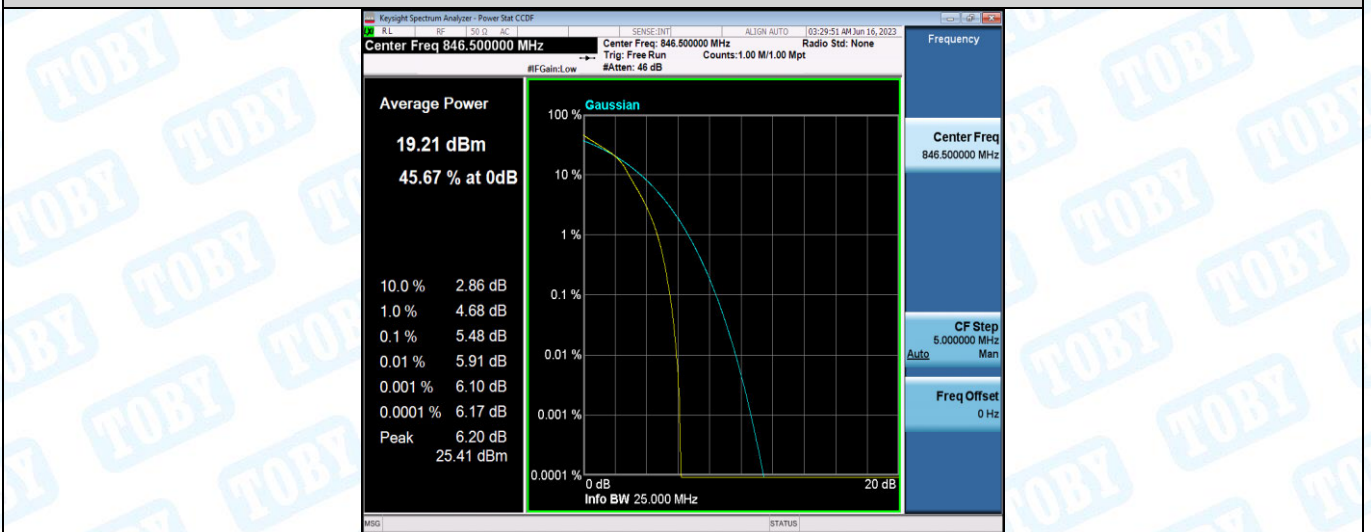




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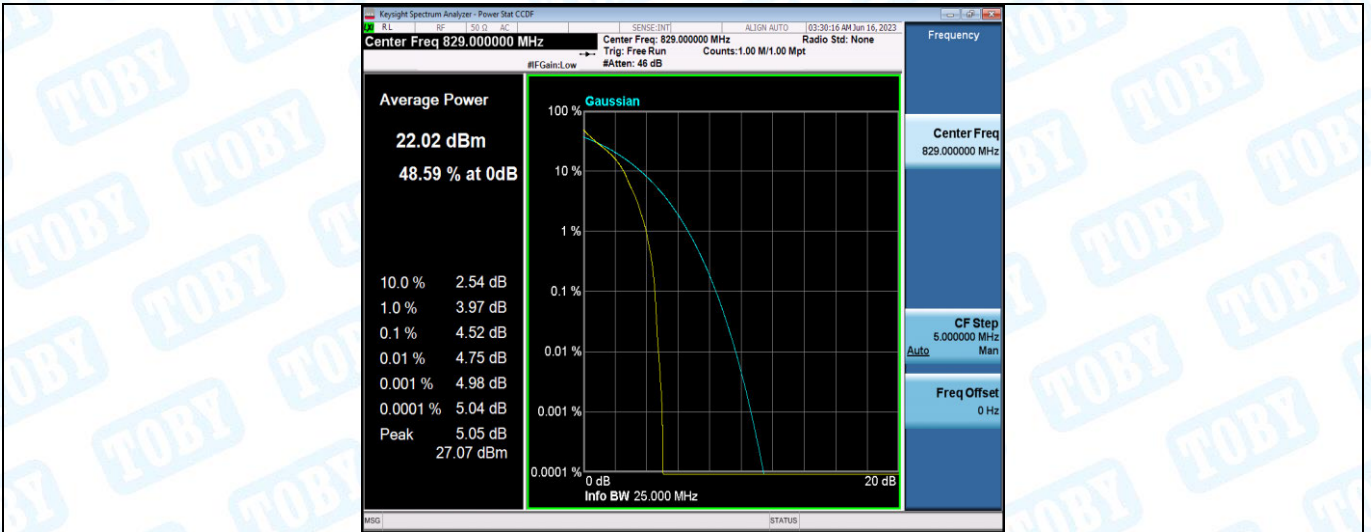


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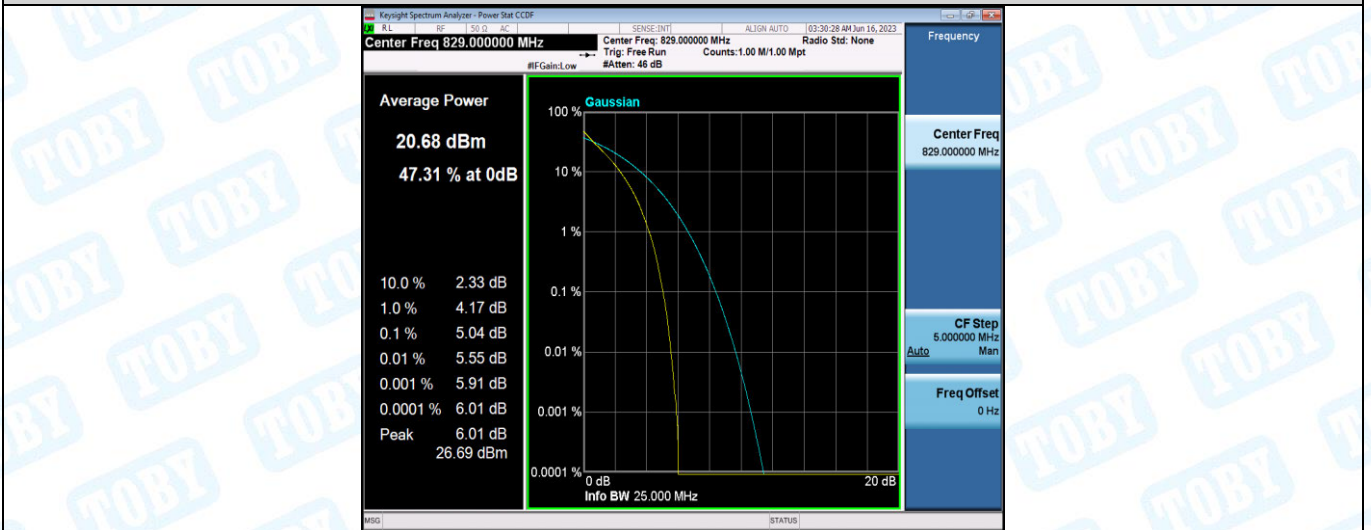


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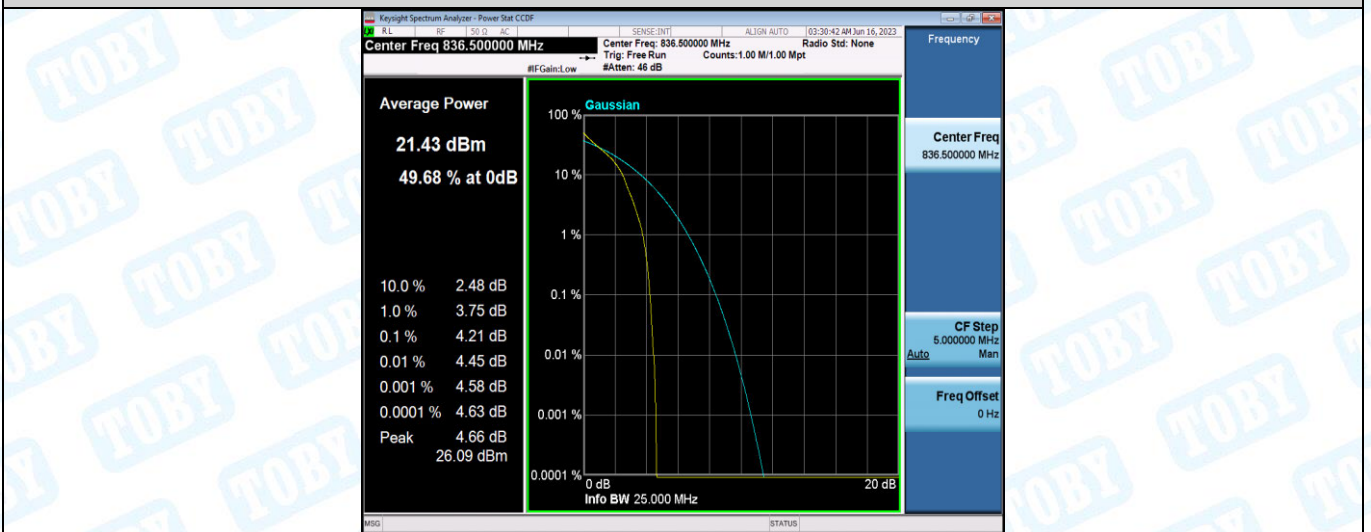




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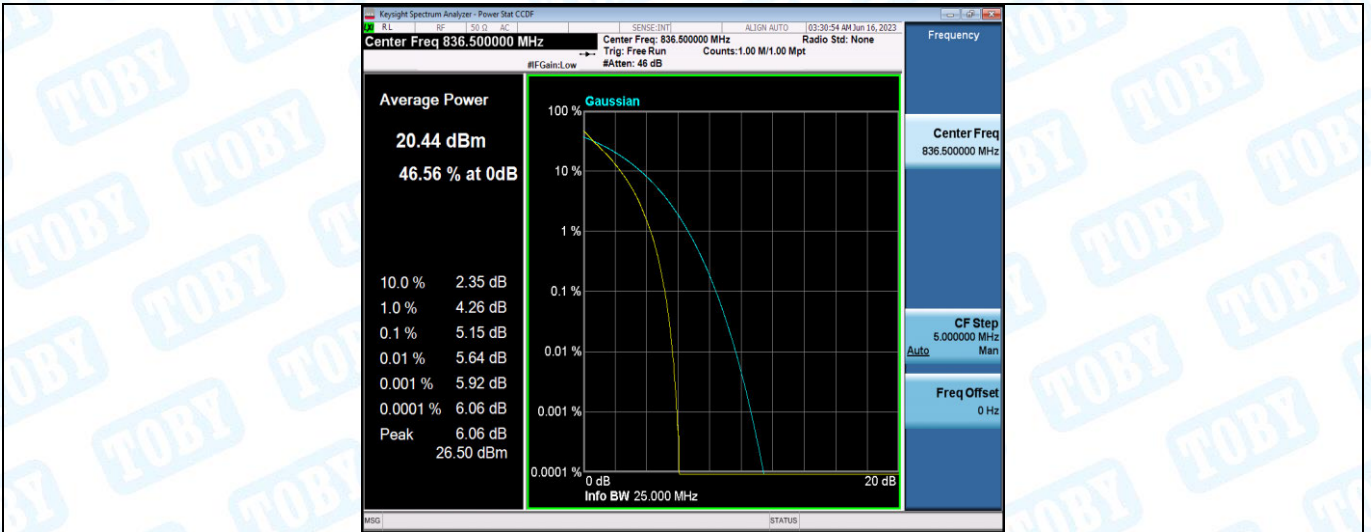


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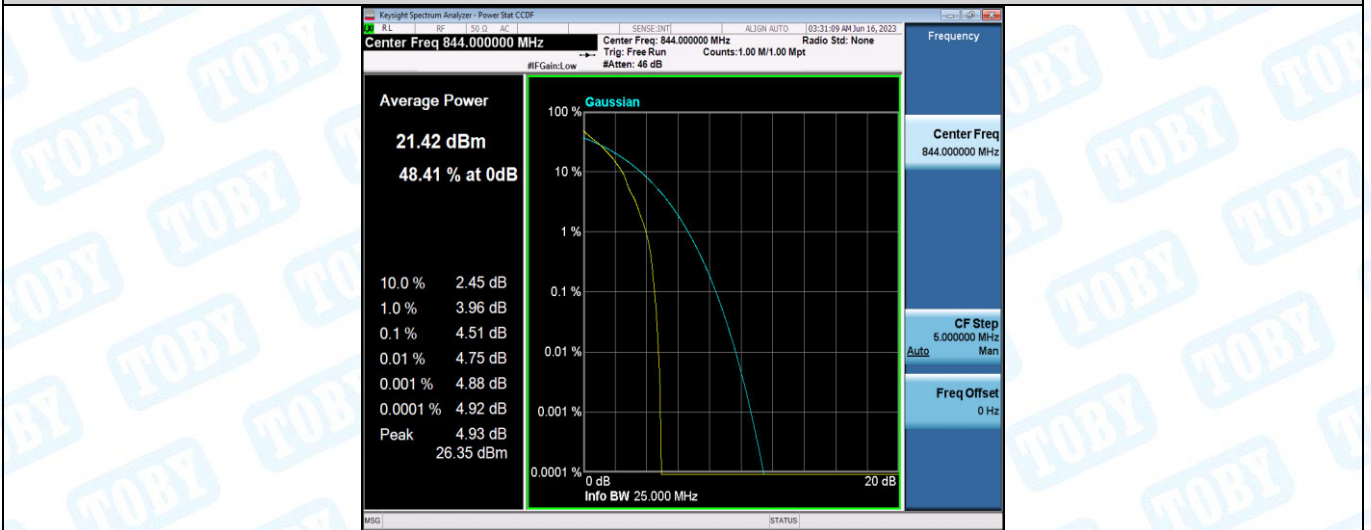


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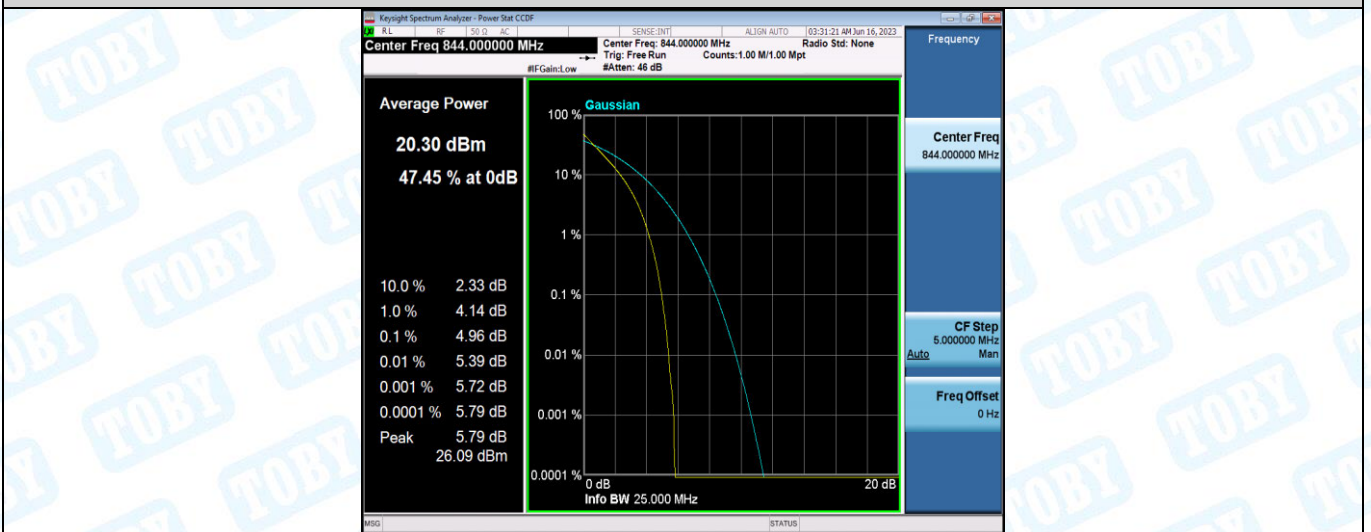




Band5-10MHz-QPSK-20600-1RB#0

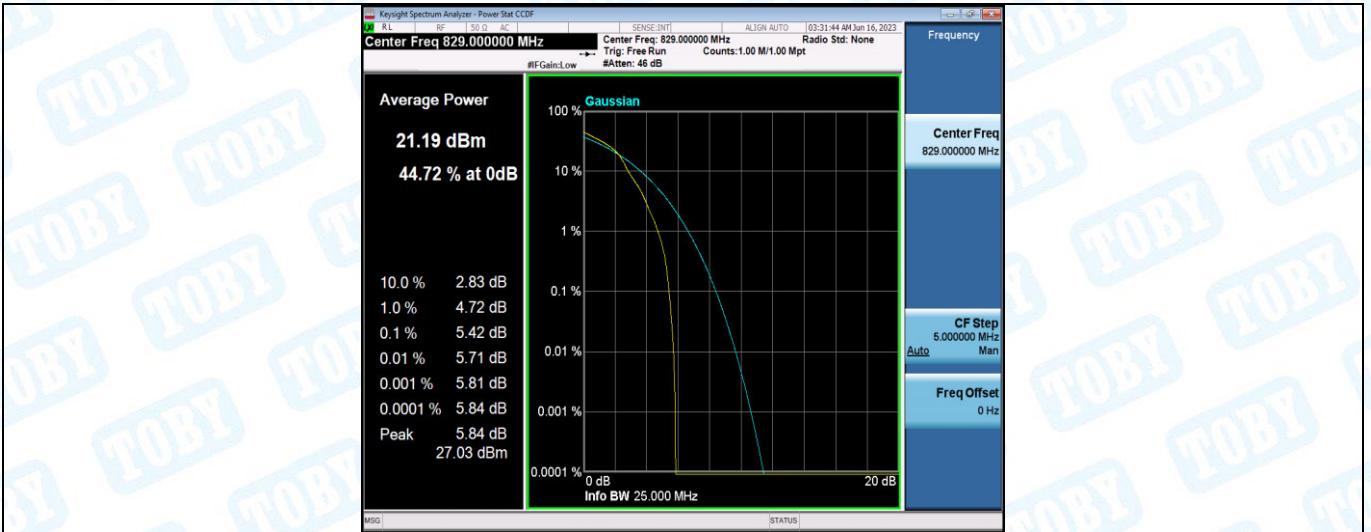


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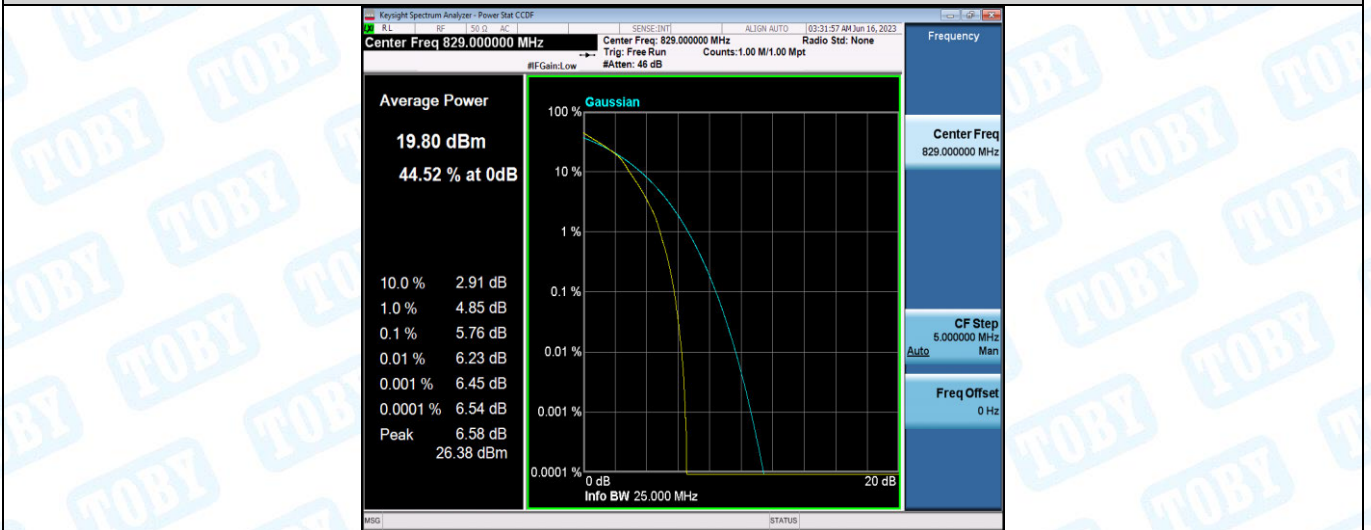


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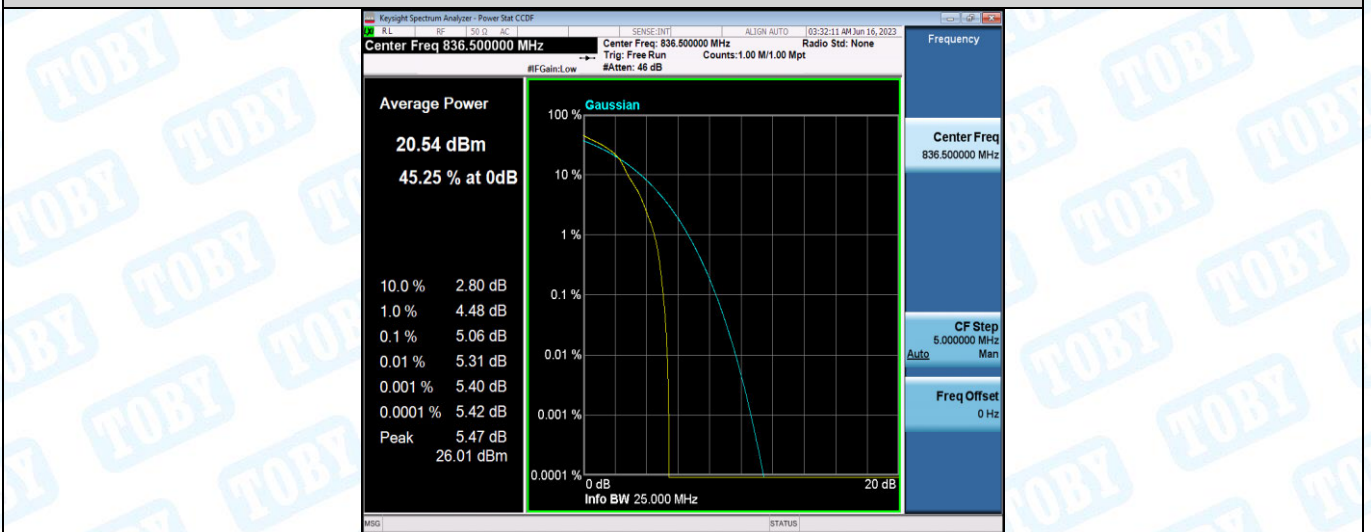




Band5-10MHz-16QAM-20450-27RB#0

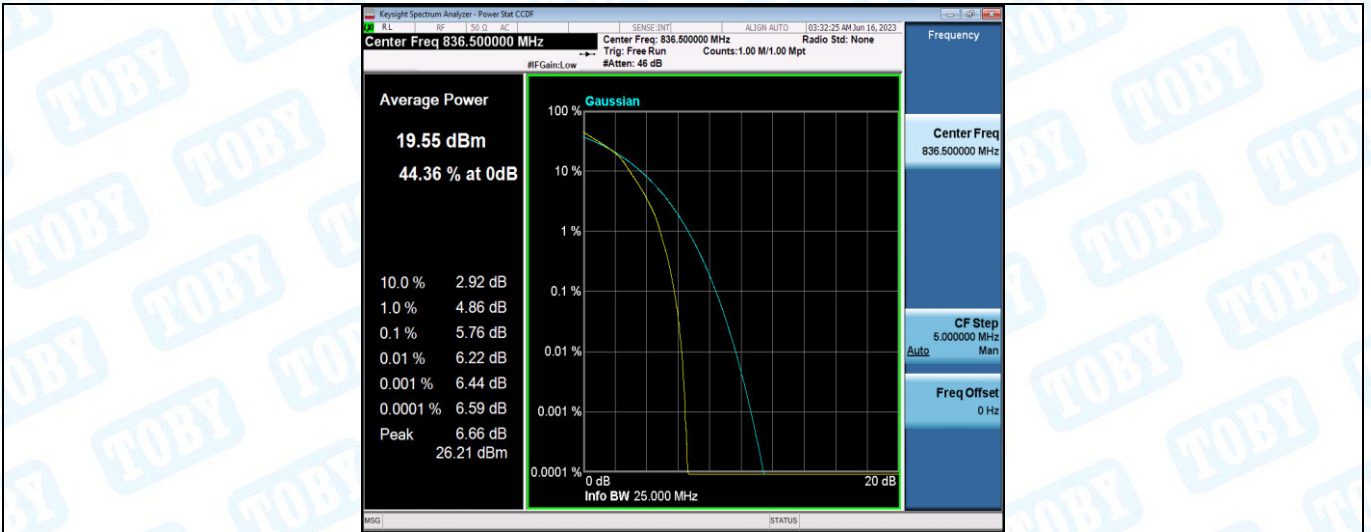


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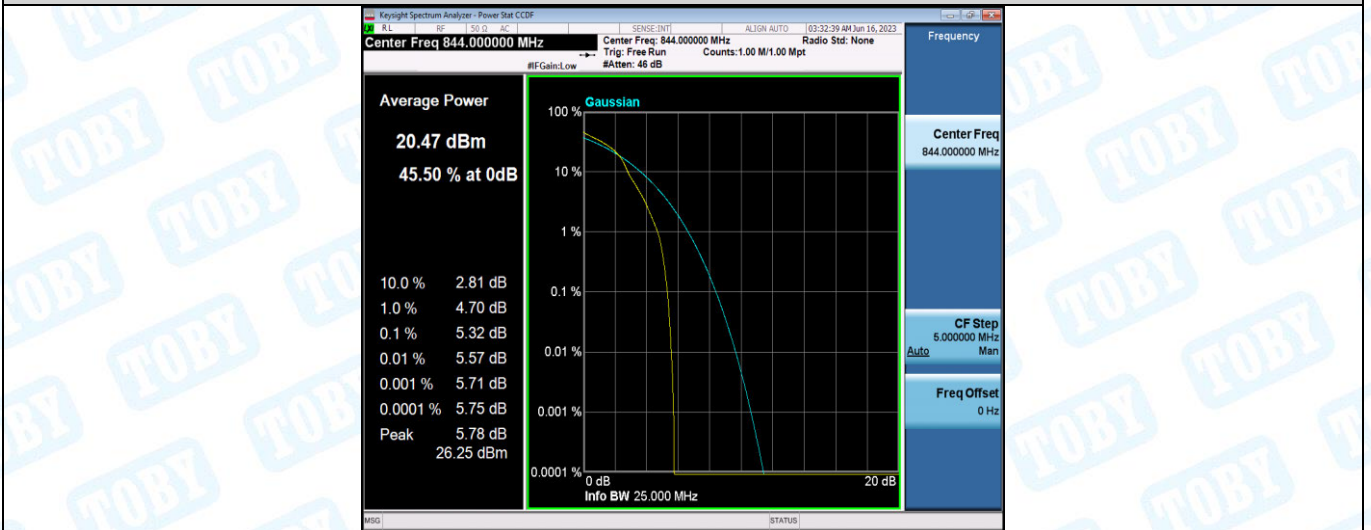


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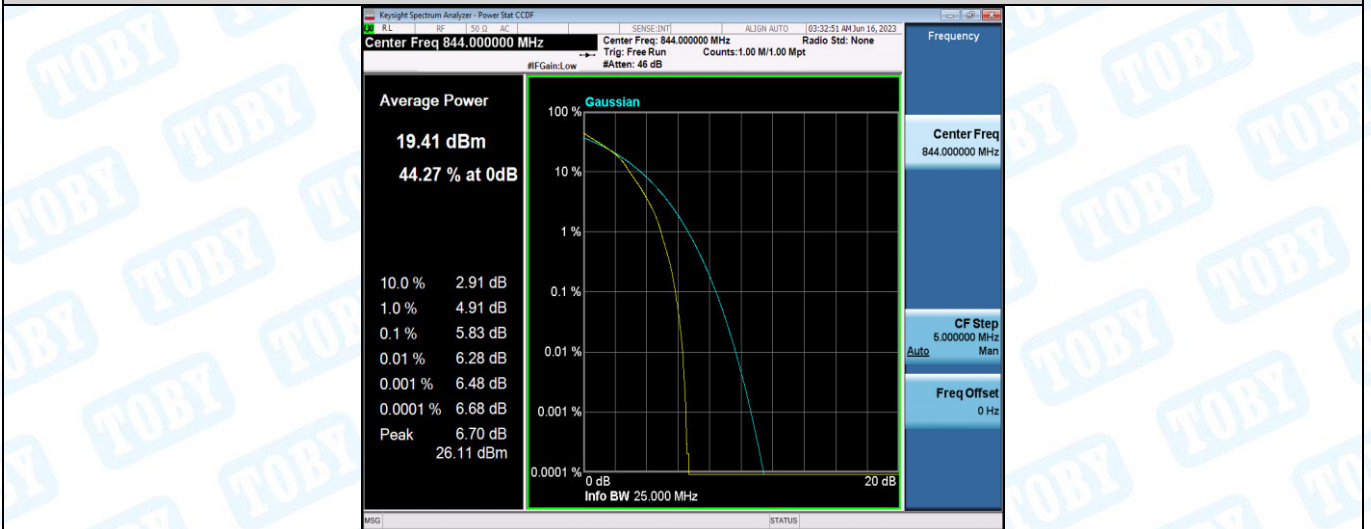




Band5-10MHz-16QAM-20600-1RB#0



Band5-10MHz-16QAM-20600-27RB#0





## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.1178	1.529	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.1372	1.529	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.1170	1.529	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.1362	1.531	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.1160	1.538	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.1356	1.512	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7195	3.257	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.7294	3.274	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7168	3.215	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7135	3.268	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7207	3.230	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7111	3.287	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5227	5.236	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5225	5.205	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5156	5.224	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5286	5.262	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5229	5.234	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5205	5.178	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9870	10.12	PASS
Band5	10MHz	QPSK	20525	50RB#0	9.0021	10.09	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9890	10.17	PASS
Band5	10MHz	16QAM	20450	27RB#0	4.9756	6.089	PASS
Band5	10MHz	16QAM	20525	27RB#0	5.0035	6.179	PASS
Band5	10MHz	16QAM	20600	27RB#0	5.0007	6.046	PASS