

FCC Appendix RF Test Data for LTE band 4

Company : HK EKO ELECTRONICS LIMITED

EUT : 4G LTE Solar Cellular Battery Camera

Model Number : Q505

Report No. : CTA26090401602

FCC ID : 2BR3K-SECCAM-Q505

Reviewed By : Eric Wang

Appendix A: Conducted power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.69	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.63	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.55	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.54	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	22.51	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	22.49	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.61	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.46	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.31	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.31	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	22.25	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	22.25	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	22.19	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.34	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.15	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.13	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	21.99	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	22.10	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	22.06	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.15	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.66	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.70	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.78	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.55	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.52	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.50	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.62	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.42	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.54	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.43	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	21.40	PASS

Band4	1.4MHz	16QAM	20175	3RB#1	21.39	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	21.37	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.54	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.35	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.26	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.10	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.08	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.07	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.20	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.38	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.53	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.41	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.71	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.74	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.77	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.75	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.50	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.37	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.08	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.49	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.38	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.27	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.30	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.15	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.25	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.03	PASS
Band4	3MHz	QPSK	20385	8RB#0	21.06	PASS
Band4	3MHz	QPSK	20385	8RB#4	21.10	PASS
Band4	3MHz	QPSK	20385	8RB#7	21.15	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.14	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.68	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.90	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.90	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.80	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.80	PASS
Band4	3MHz	16QAM	19965	8RB#7	20.84	PASS

Band4	3MHz	16QAM	19965	15RB#0	20.68	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.35	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.41	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.27	PASS
Band4	3MHz	16QAM	20175	8RB#0	20.61	PASS
Band4	3MHz	16QAM	20175	8RB#4	20.62	PASS
Band4	3MHz	16QAM	20175	8RB#7	20.36	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.55	PASS
Band4	3MHz	16QAM	20385	1RB#0	20.96	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.25	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.17	PASS
Band4	3MHz	16QAM	20385	8RB#0	20.14	PASS
Band4	3MHz	16QAM	20385	8RB#4	20.15	PASS
Band4	3MHz	16QAM	20385	8RB#7	20.21	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.11	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.10	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.90	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.16	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.87	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.91	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.96	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.93	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.90	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.38	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.41	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.57	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.62	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.44	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.56	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.57	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.21	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.57	PASS
Band4	5MHz	QPSK	20375	12RB#0	21.17	PASS
Band4	5MHz	QPSK	20375	12RB#6	21.22	PASS
Band4	5MHz	QPSK	20375	12RB#13	21.35	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.29	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.03	PASS

Band4	5MHz	16QAM	19975	1RB#12	21.95	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.12	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.09	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.09	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.16	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.17	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.75	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.78	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.82	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.84	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.66	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.66	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.43	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.36	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.61	PASS
Band4	5MHz	16QAM	20375	12RB#0	20.27	PASS
Band4	5MHz	16QAM	20375	12RB#6	20.29	PASS
Band4	5MHz	16QAM	20375	12RB#13	20.42	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.36	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.99	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.80	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.04	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.90	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.92	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.06	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.97	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.27	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.32	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.26	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.65	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.65	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.30	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.50	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.16	PASS
Band4	10MHz	QPSK	20350	1RB#24	21.93	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.41	PASS

Band4	10MHz	QPSK	20350	25RB#0	20.89	PASS
Band4	10MHz	QPSK	20350	25RB#12	20.92	PASS
Band4	10MHz	QPSK	20350	25RB#25	21.14	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.02	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.73	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.98	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.72	PASS
Band4	15MHz	QPSK	20025	38RB#0	22.07	PASS
Band4	15MHz	QPSK	20025	38RB#18	22.19	PASS
Band4	15MHz	QPSK	20025	38RB#37	22.16	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.14	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.08	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.26	PASS
Band4	15MHz	QPSK	20175	1RB#74	21.94	PASS
Band4	15MHz	QPSK	20175	38RB#0	21.47	PASS
Band4	15MHz	QPSK	20175	38RB#18	21.48	PASS
Band4	15MHz	QPSK	20175	38RB#37	21.48	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.57	PASS
Band4	15MHz	QPSK	20325	1RB#0	21.67	PASS
Band4	15MHz	QPSK	20325	1RB#38	21.91	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.17	PASS
Band4	15MHz	QPSK	20325	38RB#0	20.75	PASS
Band4	15MHz	QPSK	20325	38RB#18	20.79	PASS
Band4	15MHz	QPSK	20325	38RB#37	20.80	PASS
Band4	15MHz	QPSK	20325	75RB#0	20.79	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.91	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.08	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.57	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.04	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.09	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.91	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.99	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.40	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.25	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.07	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.78	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.87	PASS

Band4	20MHz	QPSK	20175	50RB#50	21.24	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.56	PASS
Band4	20MHz	QPSK	20300	1RB#0	21.92	PASS
Band4	20MHz	QPSK	20300	1RB#49	21.81	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.30	PASS
Band4	20MHz	QPSK	20300	50RB#0	20.63	PASS
Band4	20MHz	QPSK	20300	50RB#25	20.67	PASS
Band4	20MHz	QPSK	20300	50RB#50	20.96	PASS
Band4	20MHz	QPSK	20300	100RB#0	20.79	PASS

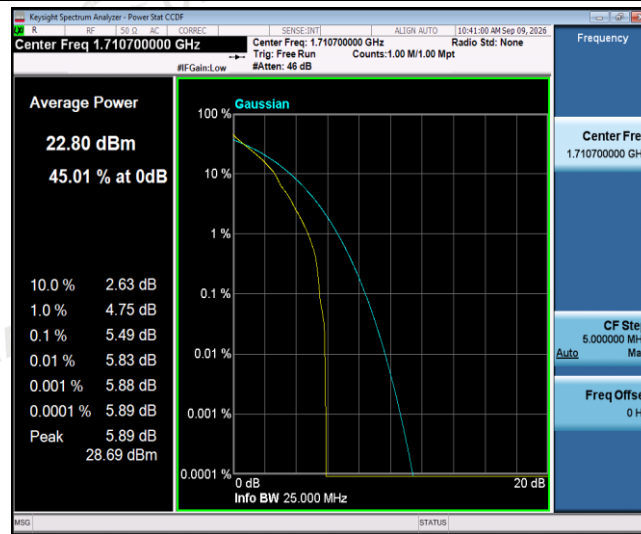
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

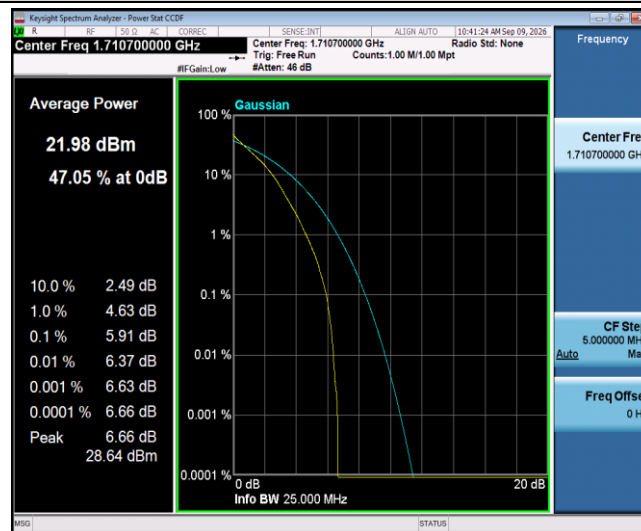
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	5.49	13	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	5.91	13	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	6.13	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	5.97	13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	5.92	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	6.10	13	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	6.03	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	6.48	13	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	6.33	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	6.61	13	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	6.55	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	6.50	13	PASS
Band4	3MHz	QPSK	19965	1RB#0	5.45	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	5.85	13	PASS
Band4	3MHz	QPSK	20175	1RB#0	5.56	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	5.86	13	PASS
Band4	3MHz	QPSK	20385	1RB#0	5.92	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	6.10	13	PASS
Band4	3MHz	16QAM	19965	1RB#0	5.94	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	6.63	13	PASS
Band4	3MHz	16QAM	20175	1RB#0	6.41	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	6.49	13	PASS
Band4	3MHz	16QAM	20385	1RB#0	6.48	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	6.67	13	PASS
Band4	5MHz	QPSK	19975	1RB#0	5.21	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	5.85	13	PASS
Band4	5MHz	QPSK	20175	1RB#0	5.36	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	6.03	13	PASS
Band4	5MHz	QPSK	20375	1RB#0	5.91	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	5.96	13	PASS
Band4	5MHz	16QAM	19975	1RB#0	6.03	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	6.61	13	PASS
Band4	5MHz	16QAM	20175	1RB#0	6.22	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	6.54	13	PASS
Band4	5MHz	16QAM	20375	1RB#0	6.42	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	6.51	13	PASS

Band4	10MHz	QPSK	20000	1RB#0	5.16	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	5.86	13	PASS
Band4	10MHz	QPSK	20175	1RB#0	5.32	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	5.99	13	PASS
Band4	10MHz	QPSK	20350	1RB#0	6.08	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	5.88	13	PASS
Band4	15MHz	QPSK	20025	1RB#0	5.25	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	6.14	13	PASS
Band4	15MHz	QPSK	20175	1RB#0	5.38	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	6.25	13	PASS
Band4	15MHz	QPSK	20325	1RB#0	6.01	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	6.20	13	PASS
Band4	20MHz	QPSK	20050	1RB#0	5.31	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	5.92	13	PASS
Band4	20MHz	QPSK	20175	1RB#0	5.22	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.91	13	PASS
Band4	20MHz	QPSK	20300	1RB#0	6.17	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.88	13	PASS

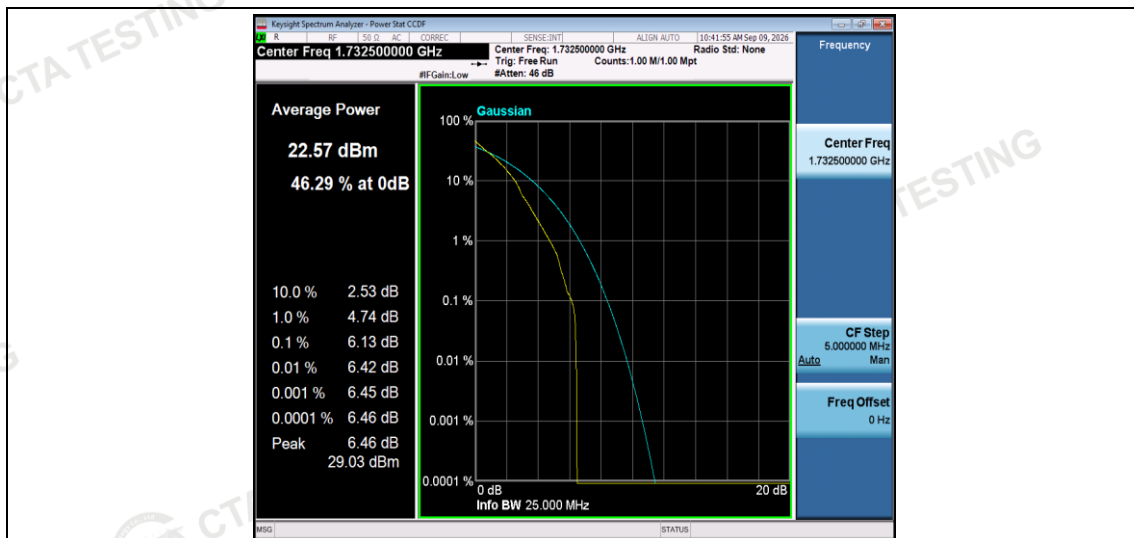
Test Graphs



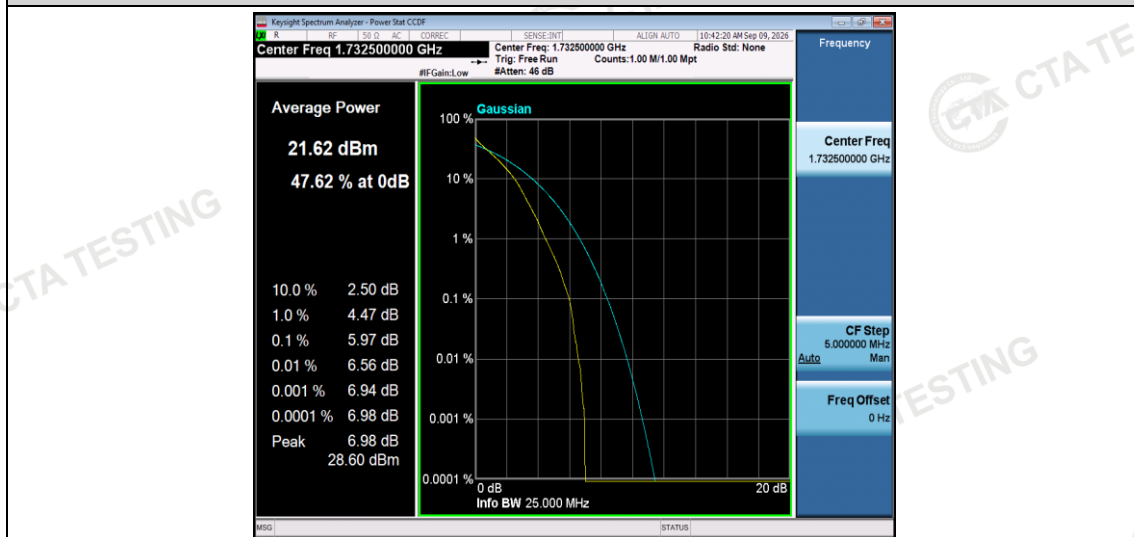
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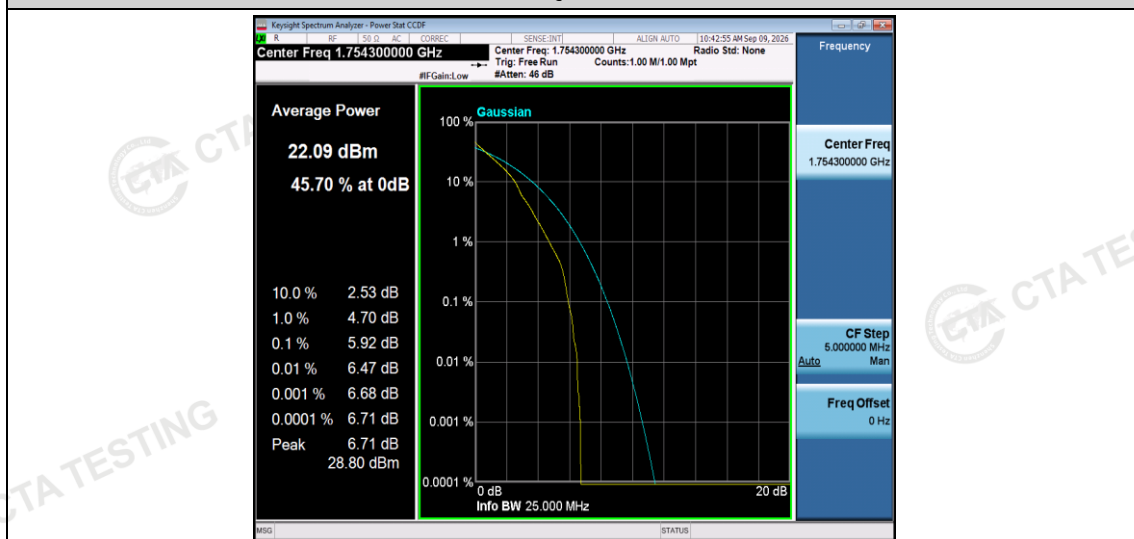
Band4-1.4MHz-QPSK-19957-6RB#0



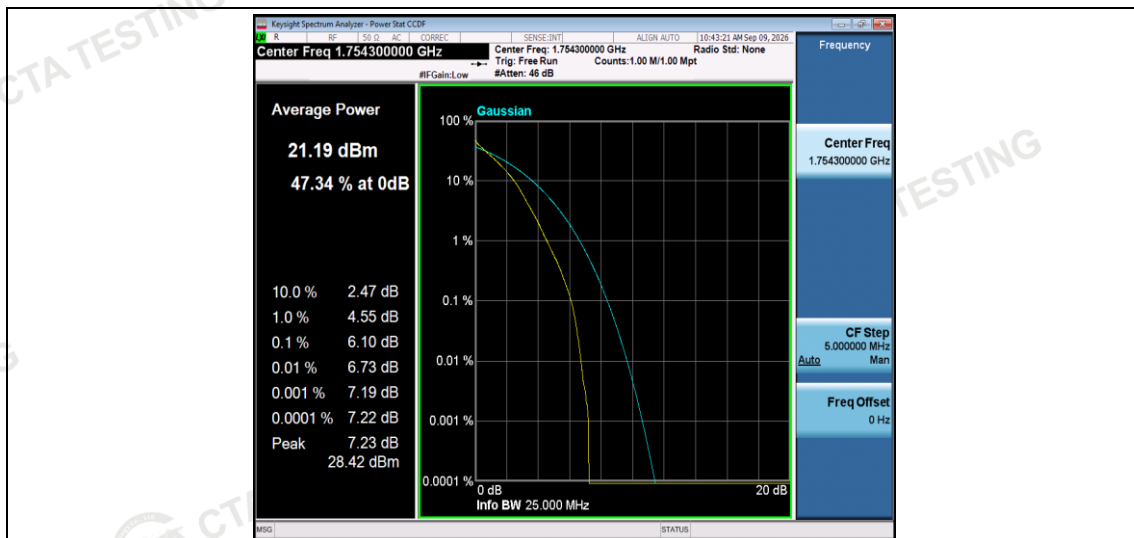
Band4-1.4MHz-QPSK-20175-1RB#0



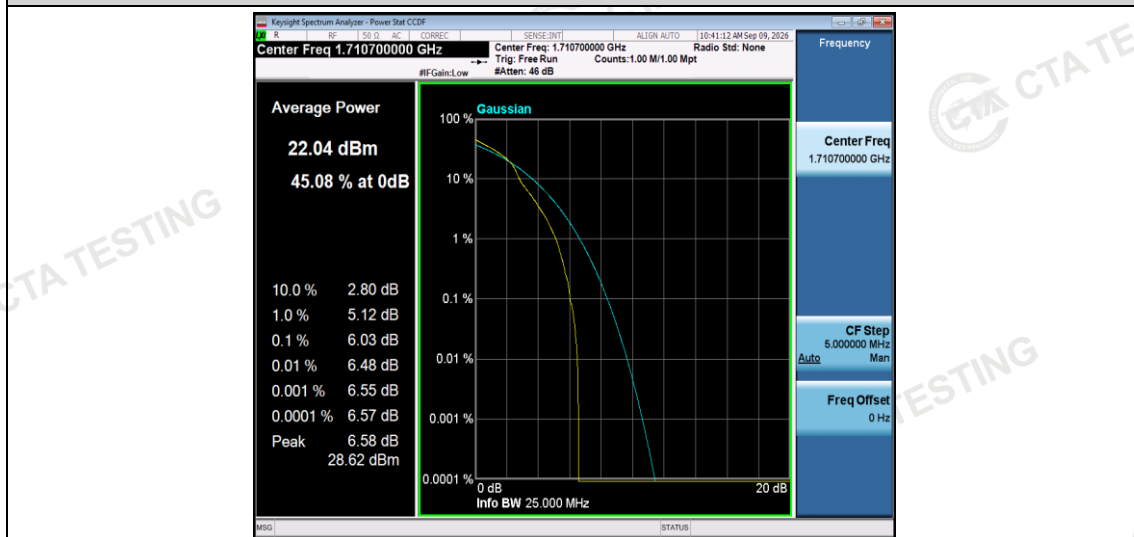
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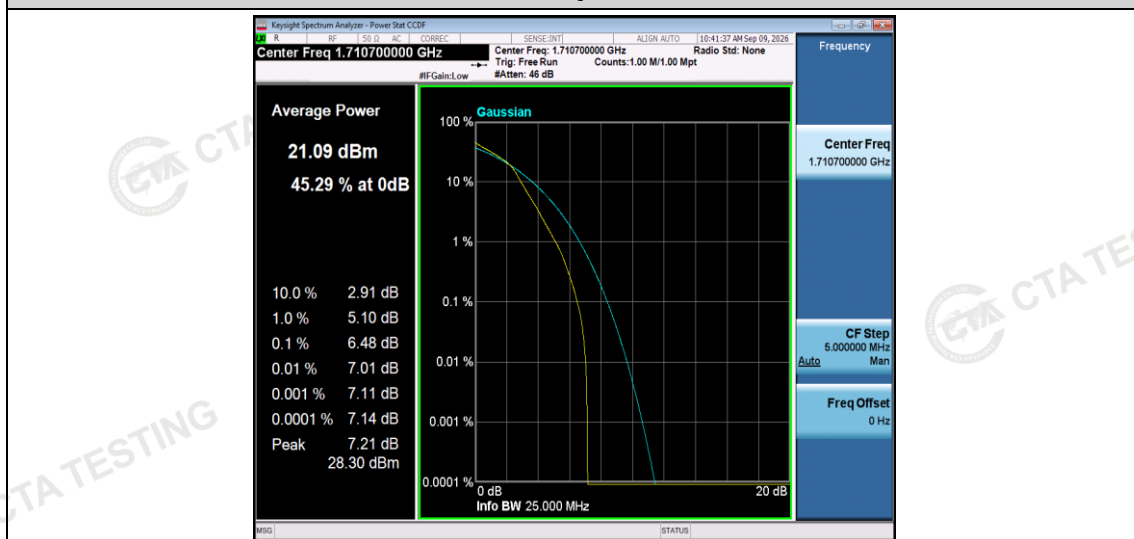
Band4-1.4MHz-QPSK-20393-1RB#0



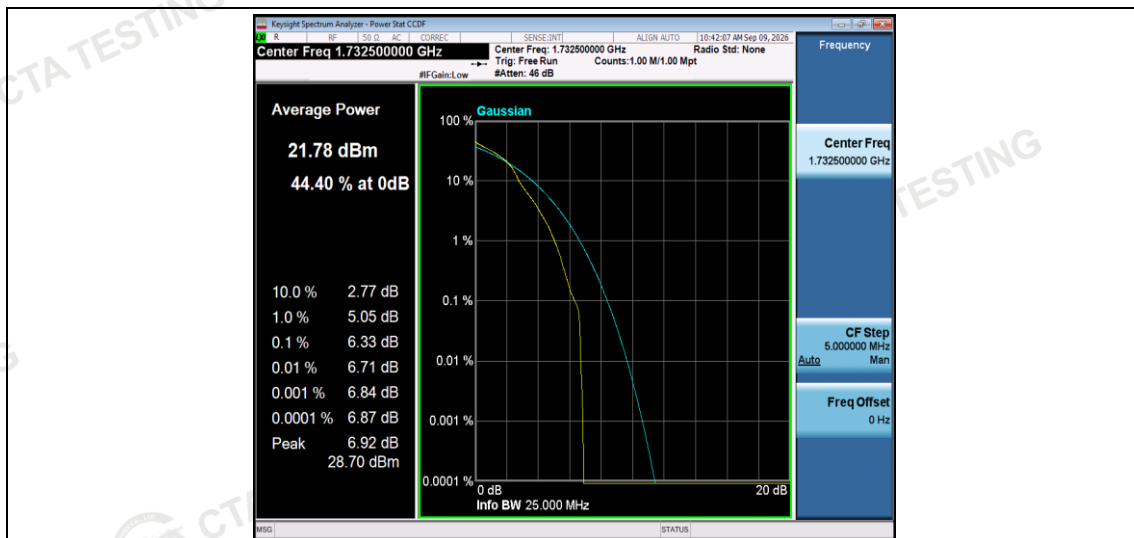
Band4-1.4MHz-QPSK-20393-6RB#0



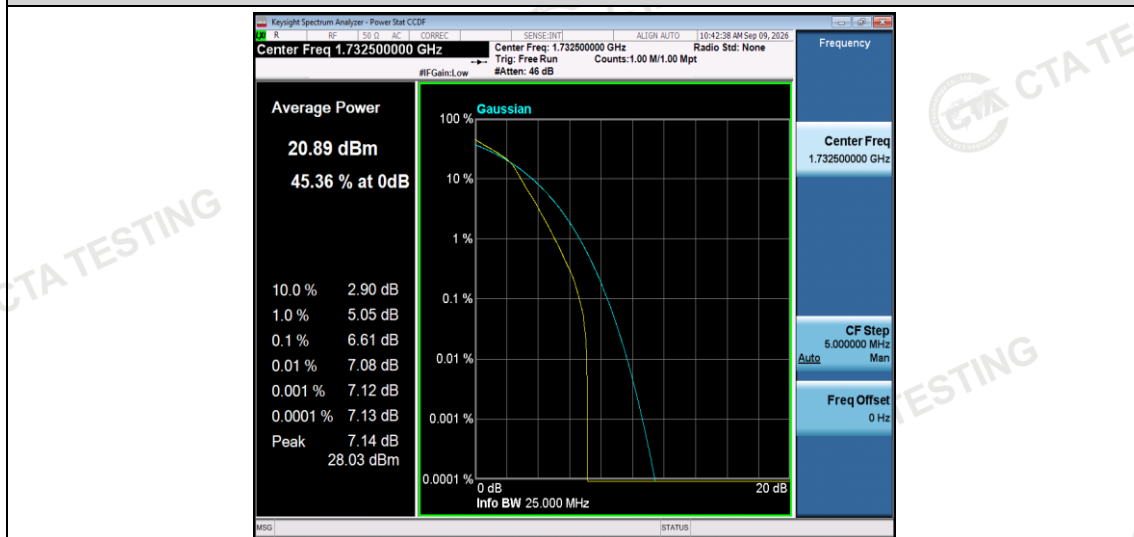
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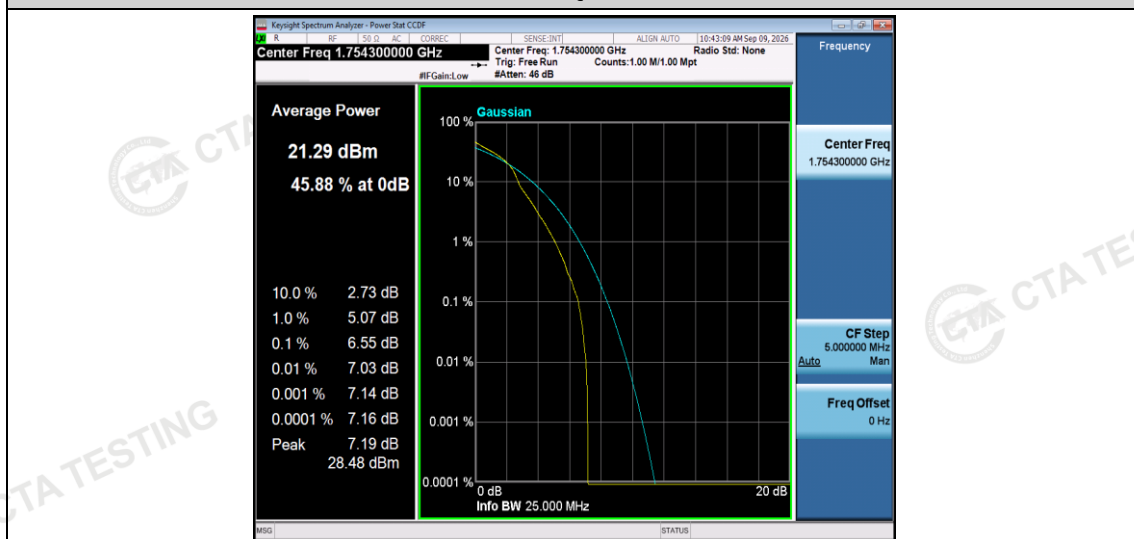
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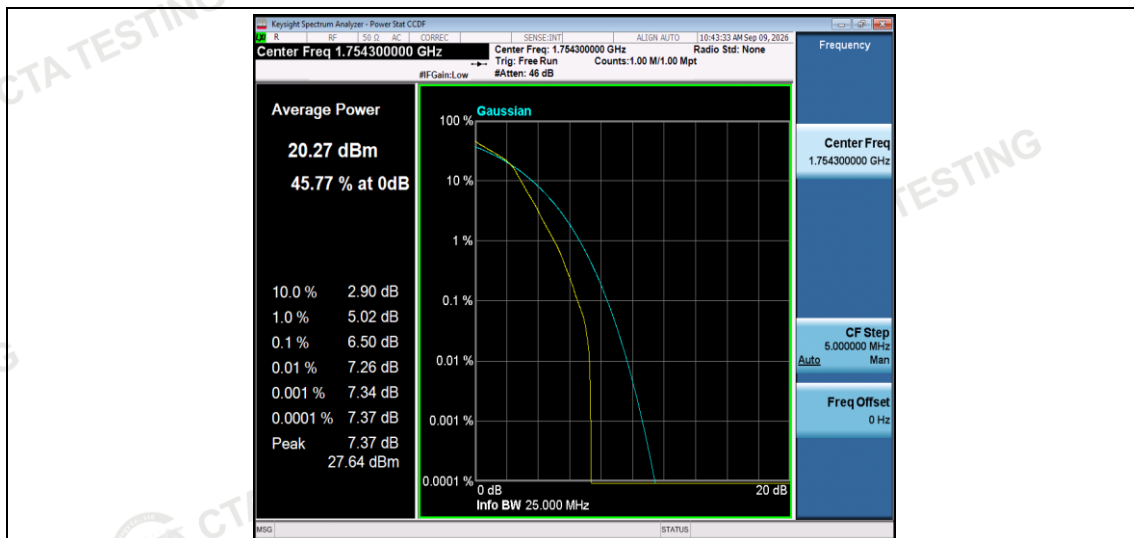
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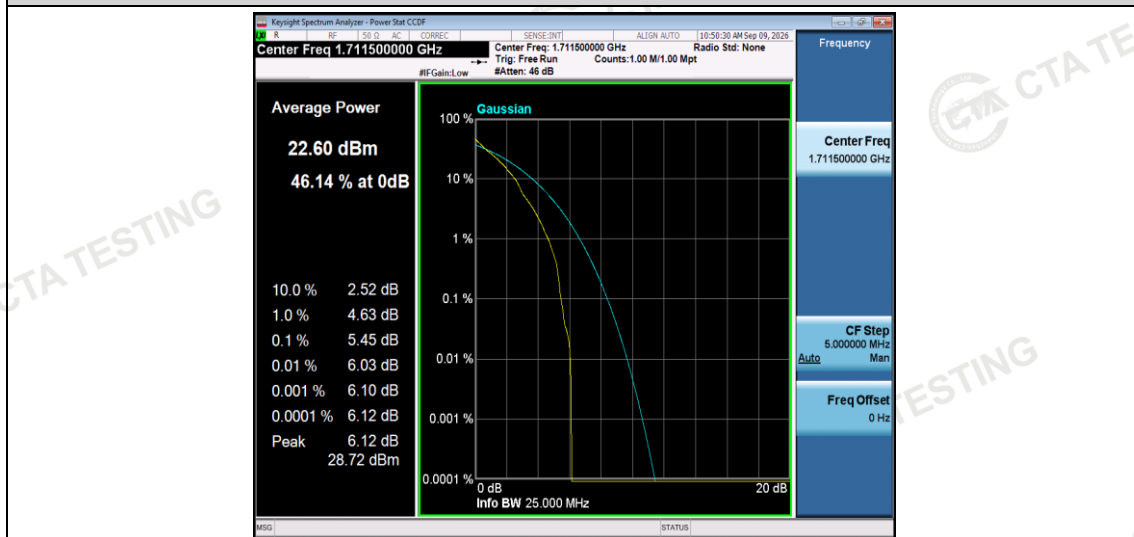
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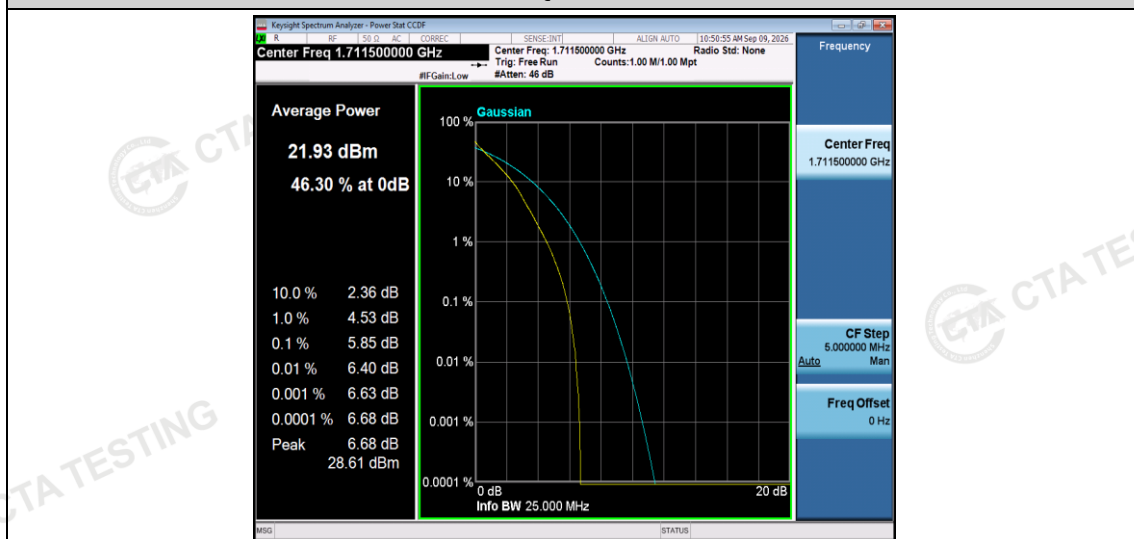
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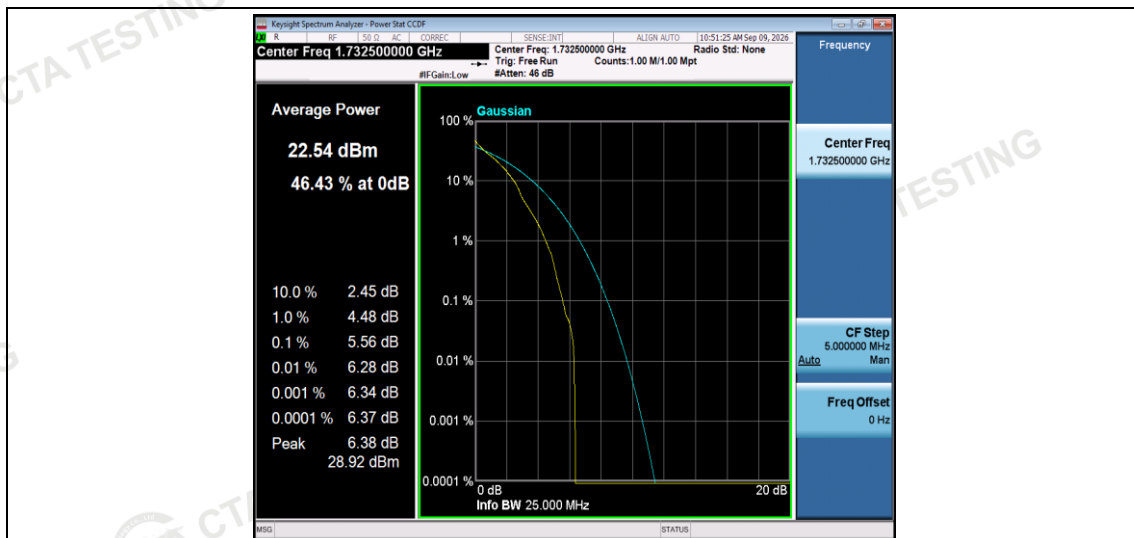
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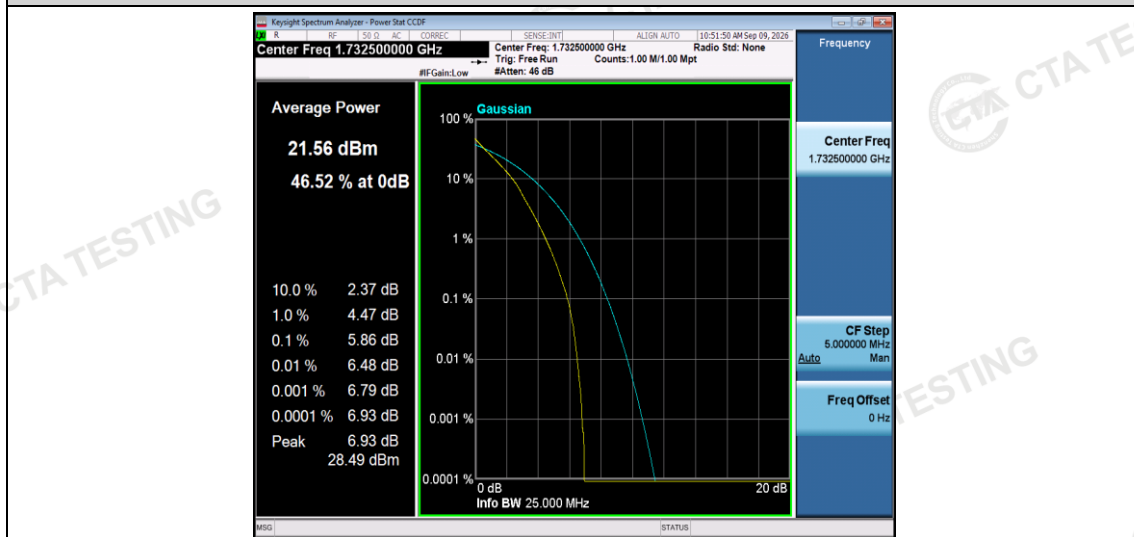
Band4-3MHz-QPSK-19965-1RB#0



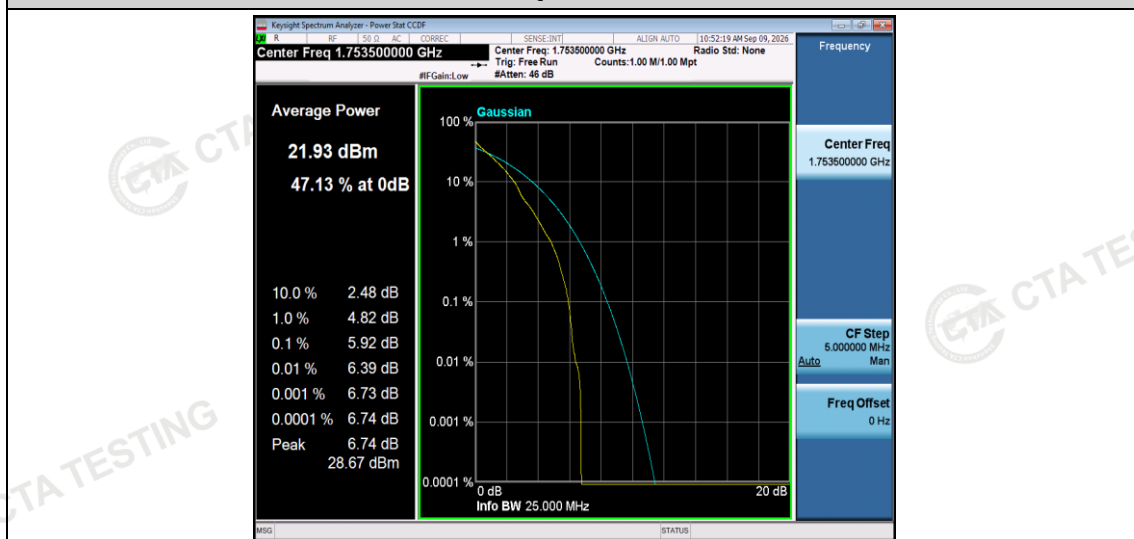
Band4-3MHz-QPSK-19965-15RB#0



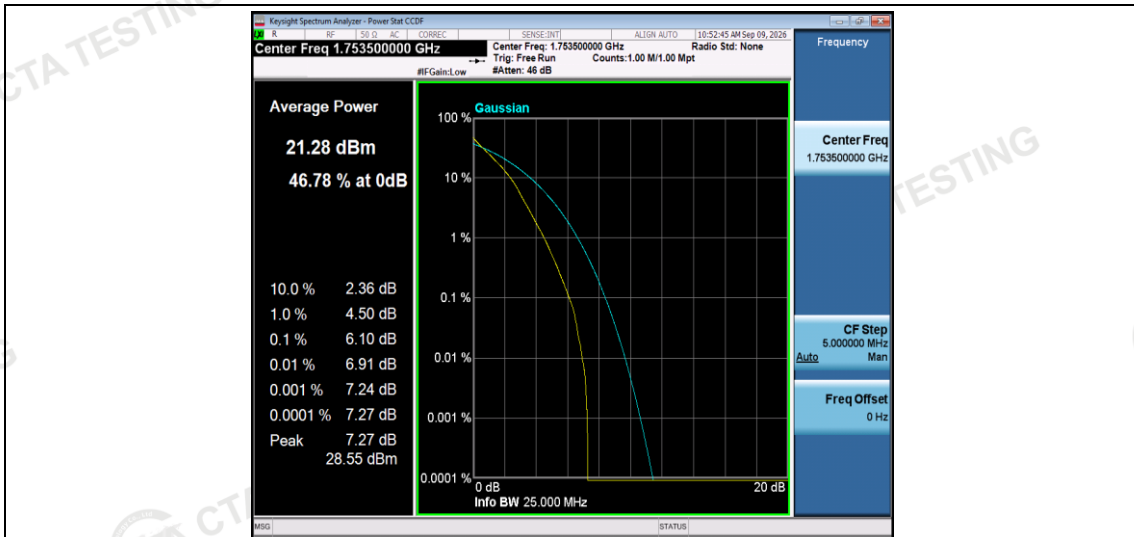
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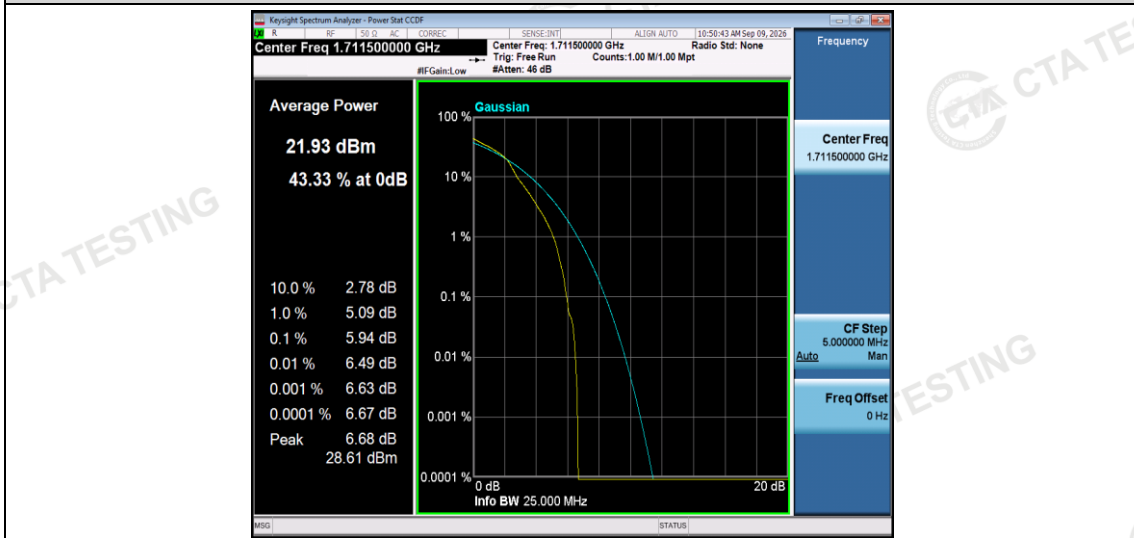
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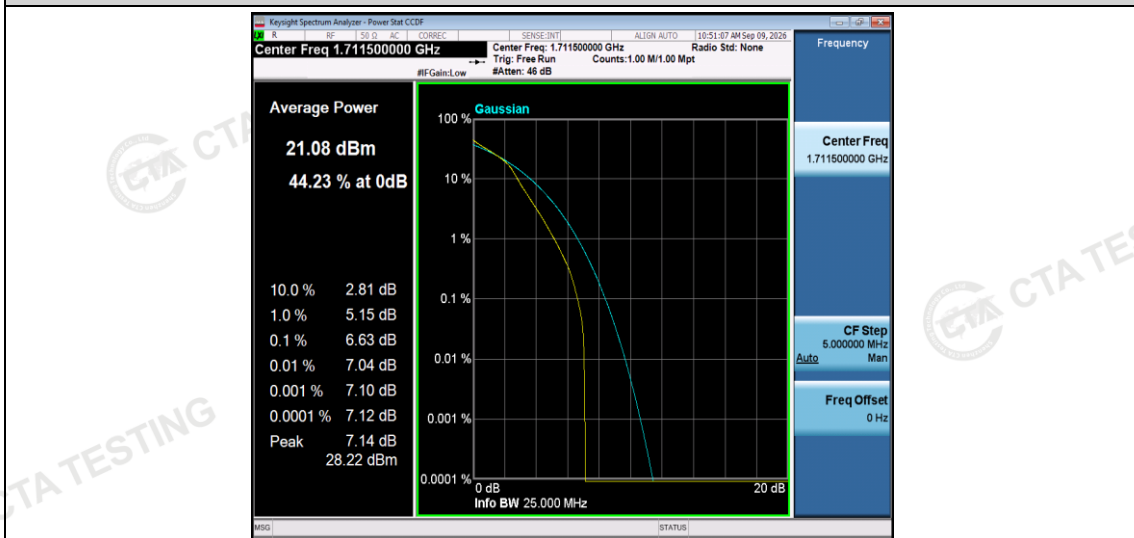
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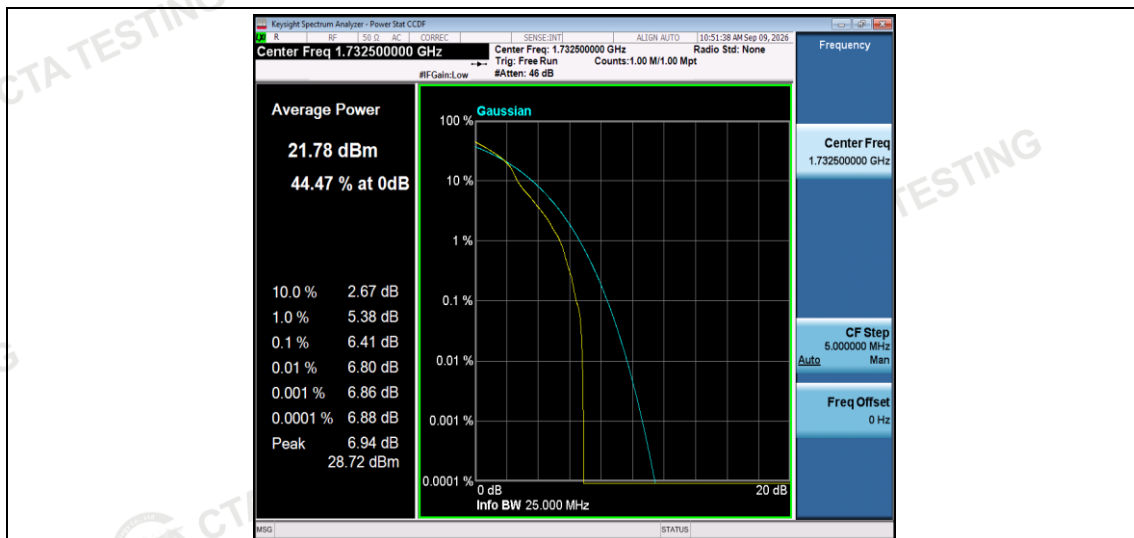
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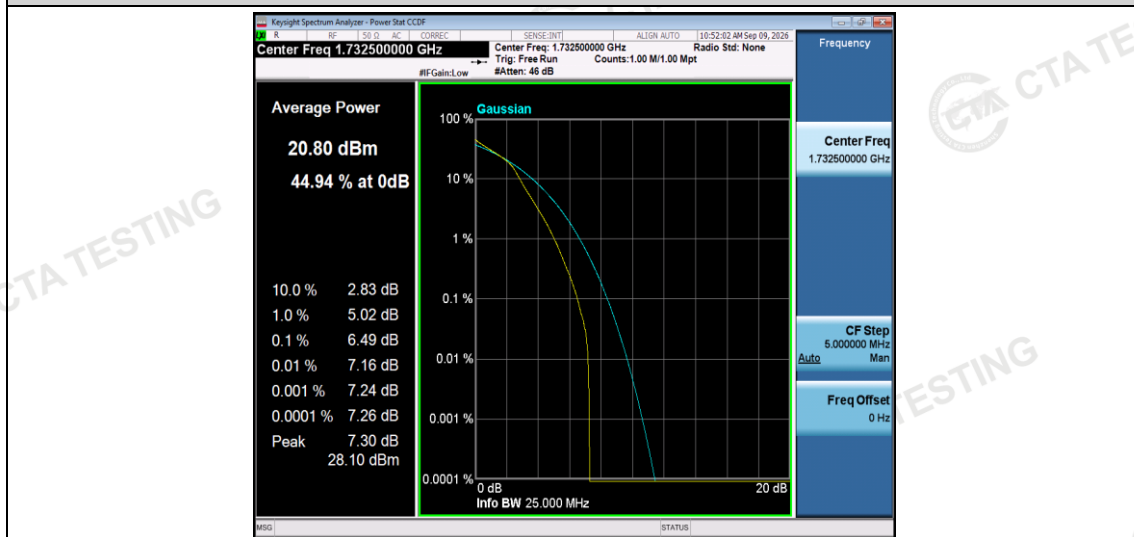
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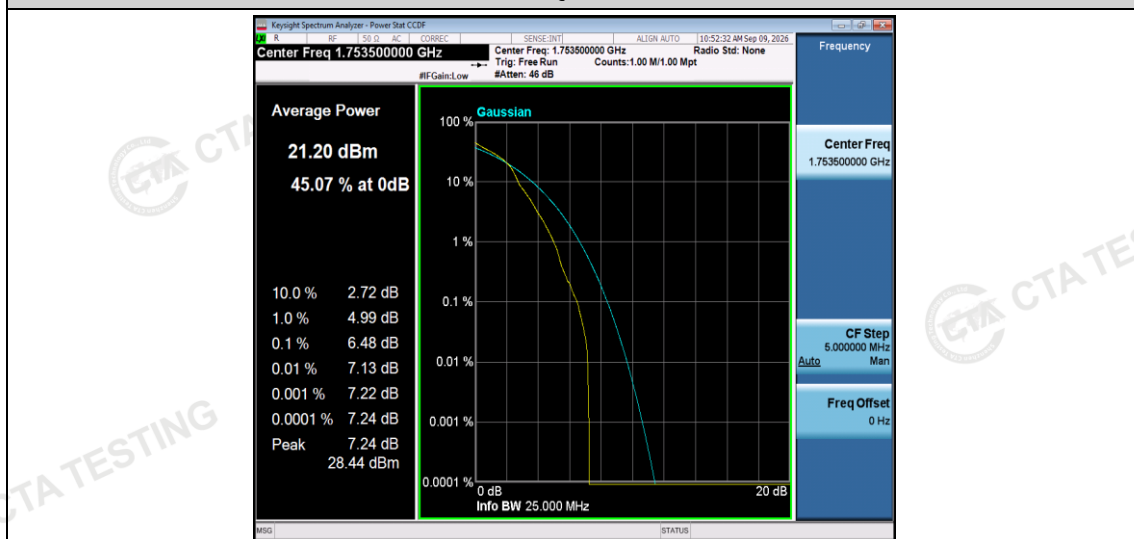
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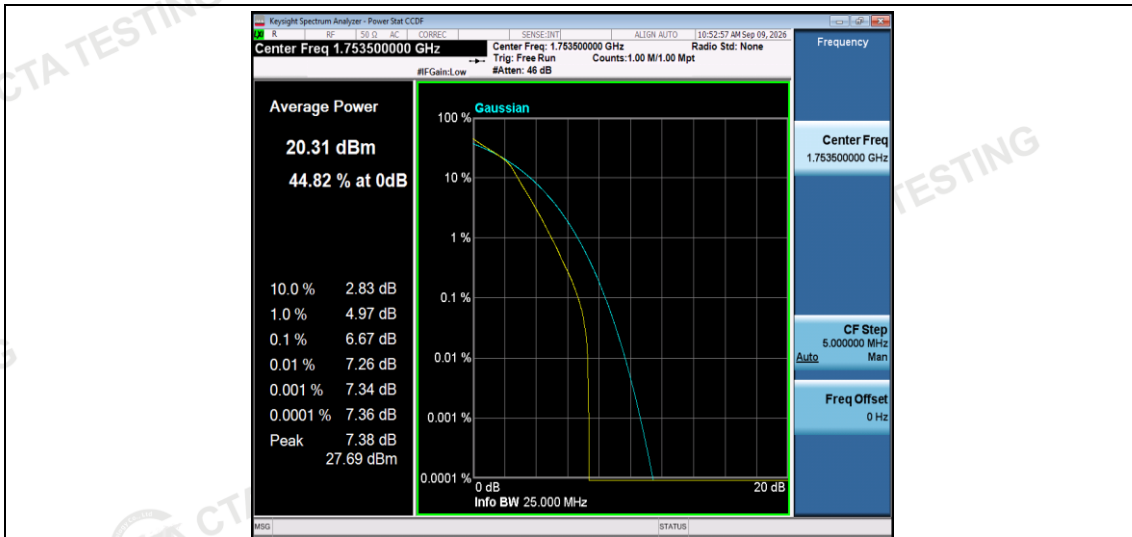
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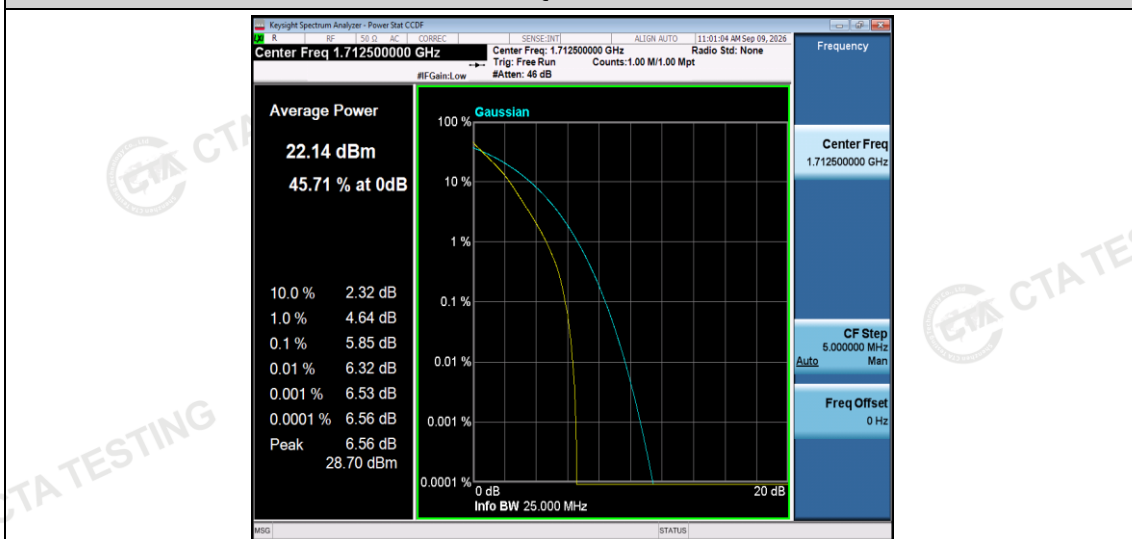
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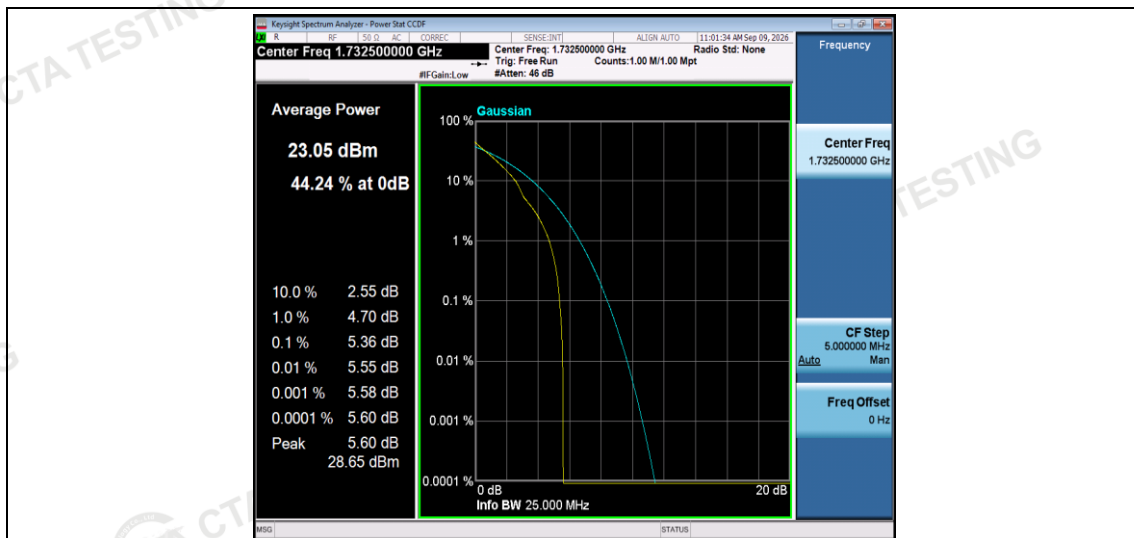
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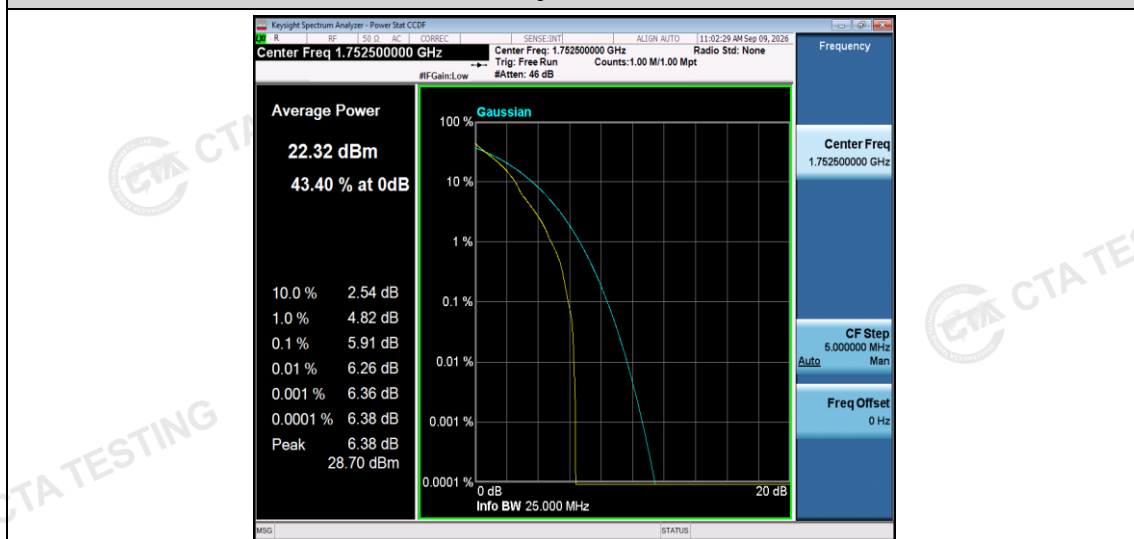
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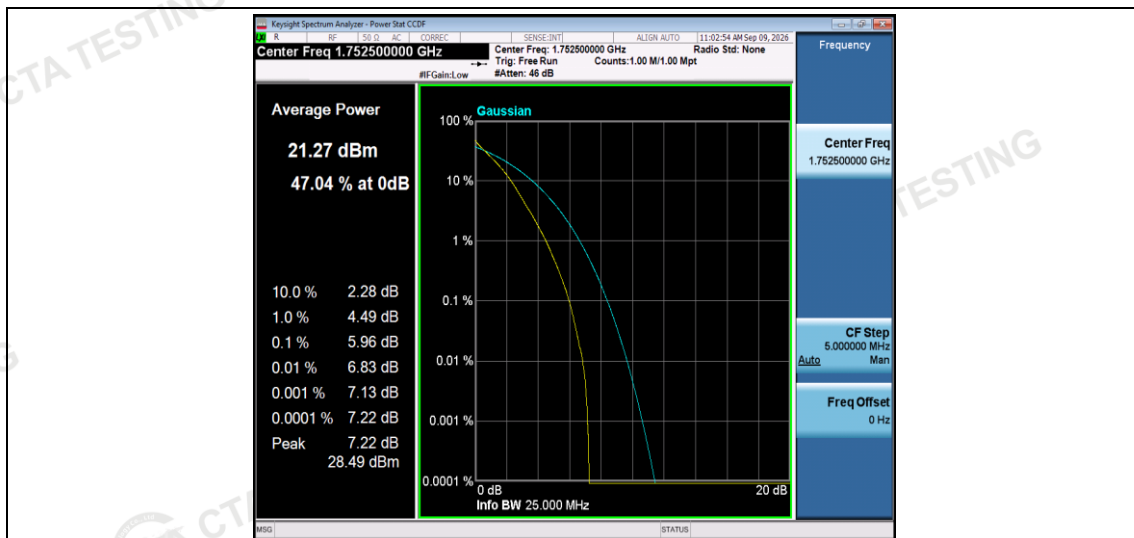
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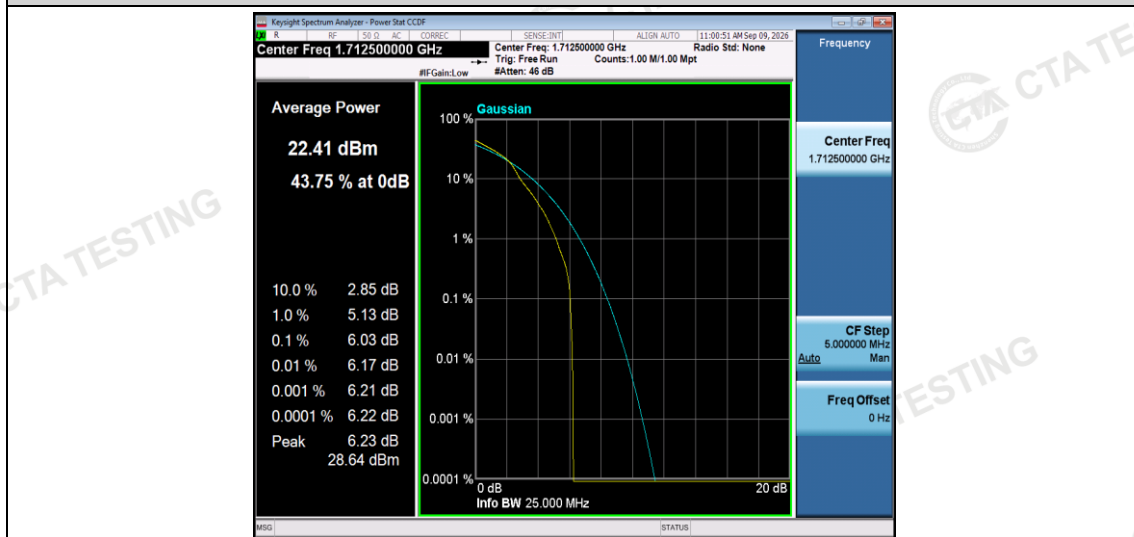
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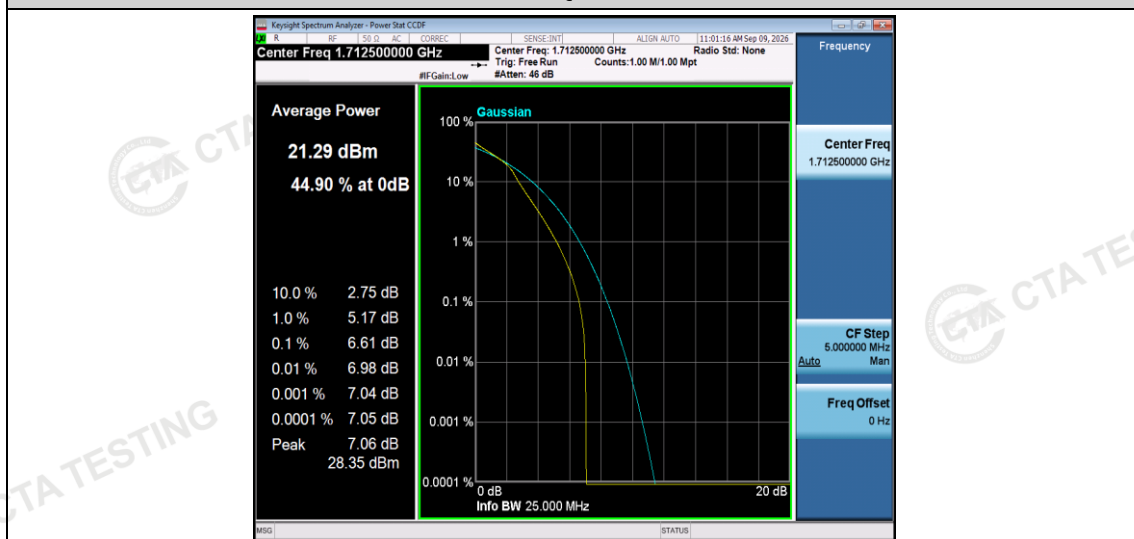
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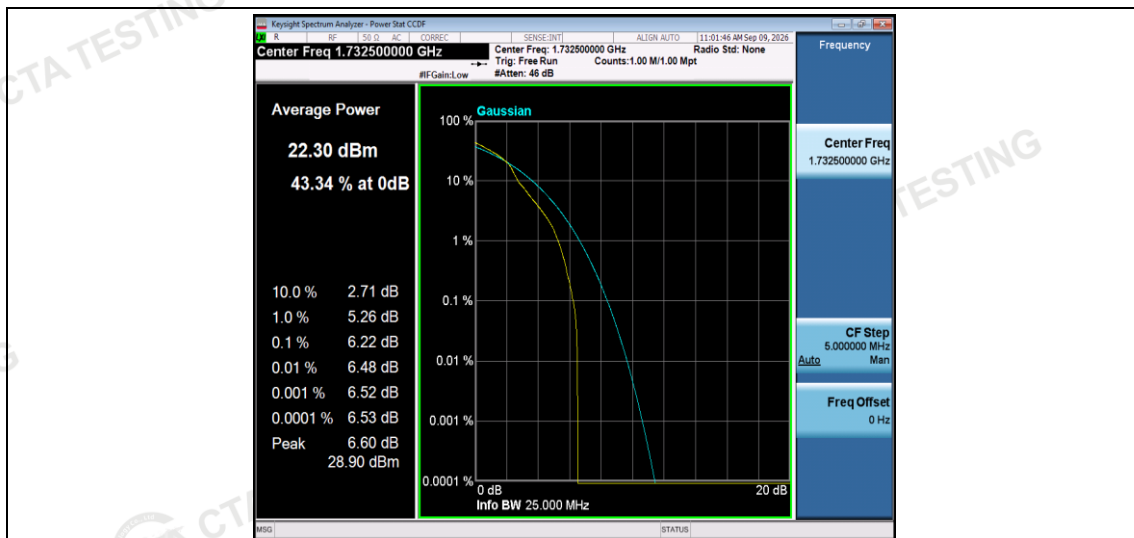
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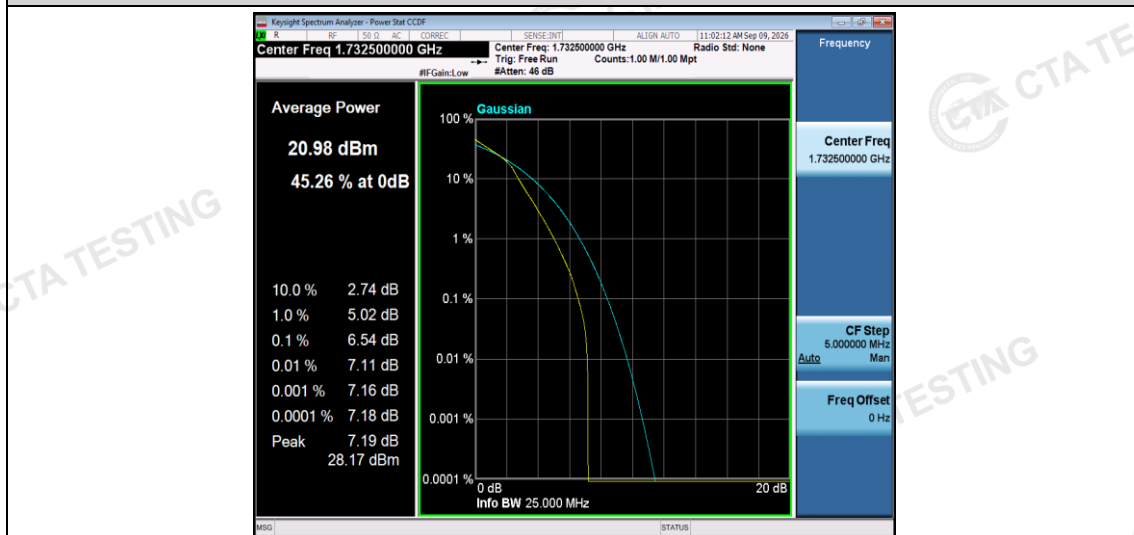
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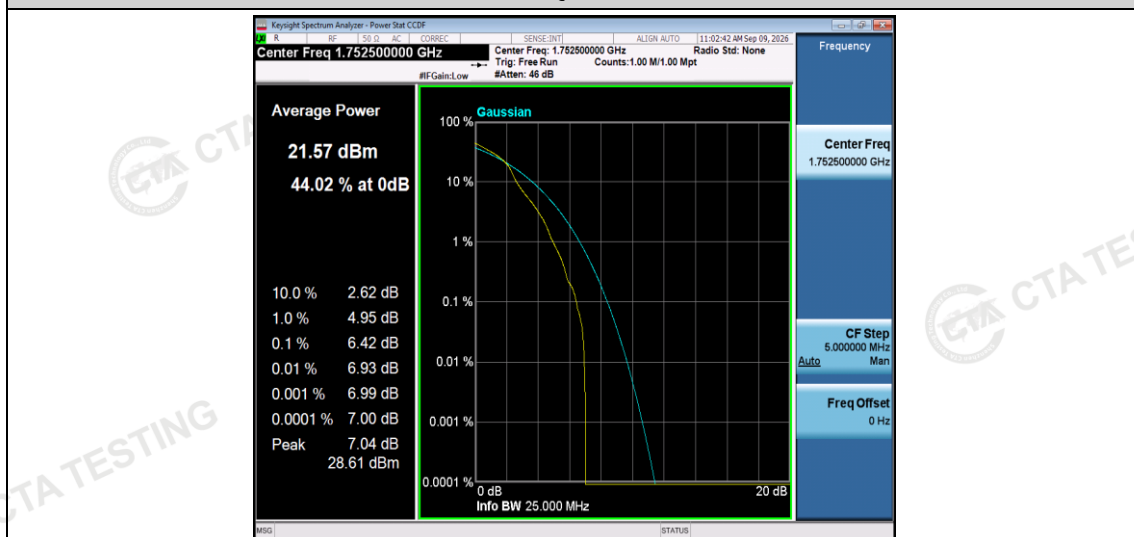
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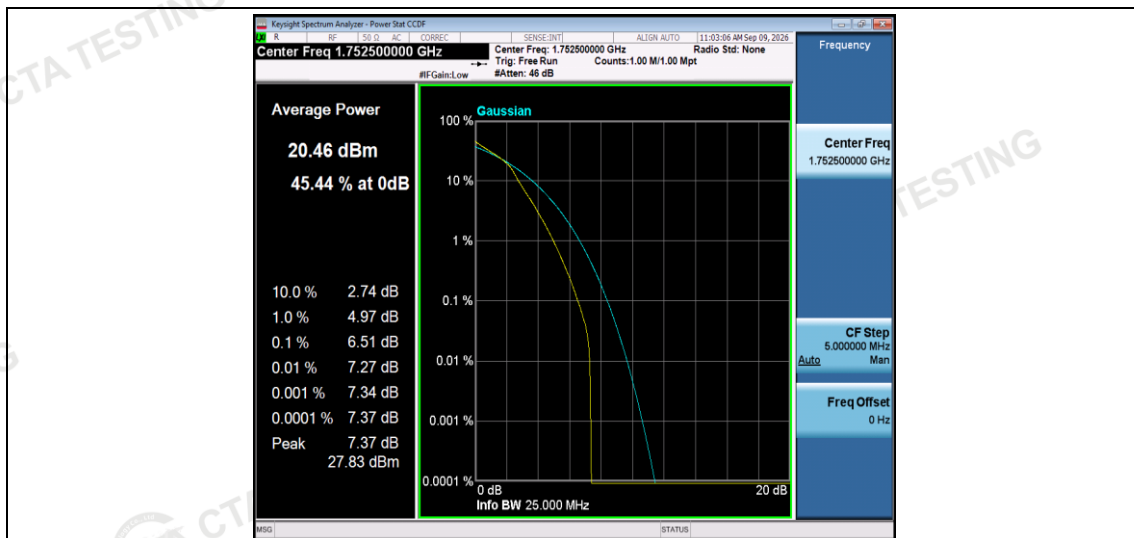
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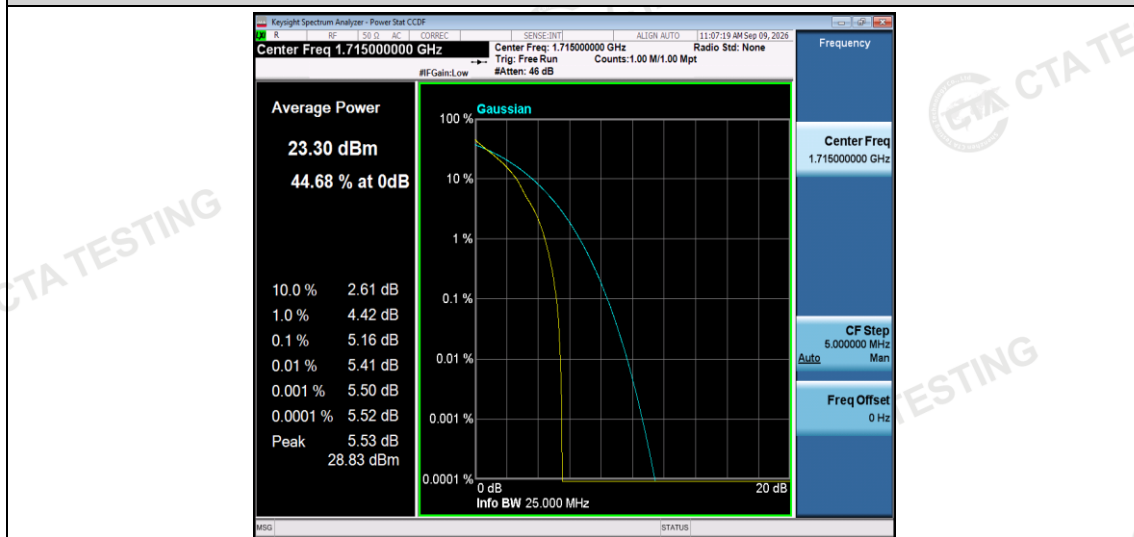
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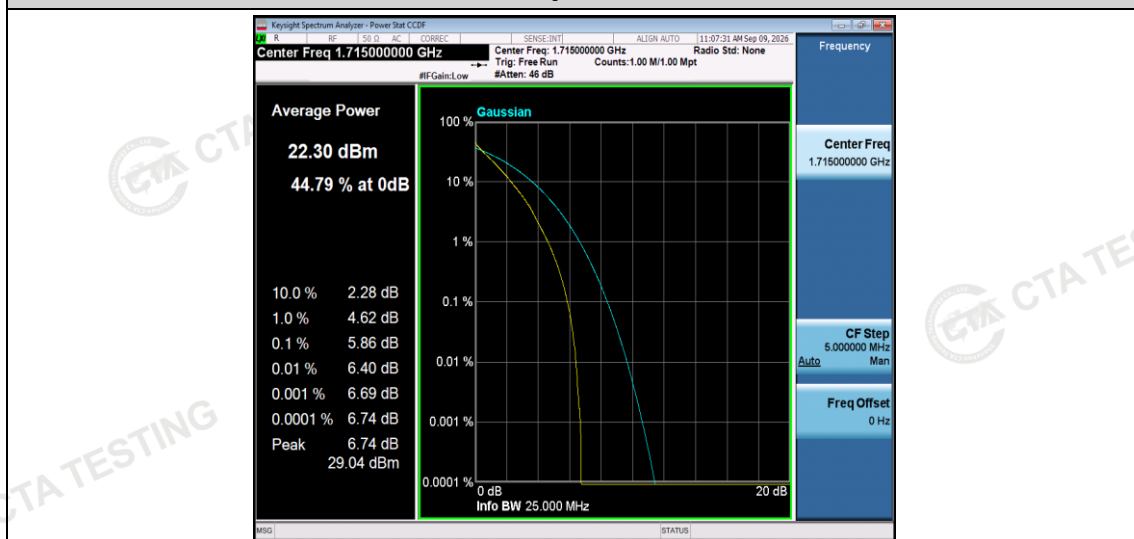
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Band4-10MHz-QPSK-20000-1RB#0



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