FCC LTE Band41 Test Data

General Description of EUT	
Product Name:	Industrial router
Test Model:	ZR2720N
Sample ID:	202305-0244-4#2
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 12V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202305-0244-51 The report only show the worst case data.	

Contents

FCC LTE Band41 Test Data 1
1. Conducted Power Output Data 3
Test Result 3
2. Peak-to-Average Ratio(CCDF) 9
Test Result 9
Test Graphs 11
3. 26dB Bandwidth and Occupied Bandwidth 27
Test Result 27
Test Graphs 28
4. Band Edge 37
Test Result 37
Test Graphs 39
5. Conducted Spurious Emission 55
Test Result 55
Test Graphs 58
6. Frequency Stability 90
Test Result 90

1. Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	0.55	PASS
Band41	5MHz	QPSK	39675	1RB#12	9.44	PASS
Band41	5MHz	QPSK	39675	1RB#24	15.74	PASS
Band41	5MHz	QPSK	39675	12RB#0	11.44	PASS
Band41	5MHz	QPSK	39675	12RB#6	11.58	PASS
Band41	5MHz	QPSK	39675	12RB#13	15.12	PASS
Band41	5MHz	QPSK	39675	25RB#0	7.29	PASS
Band41	5MHz	QPSK	40215	1RB#0	23.88	PASS
Band41	5MHz	QPSK	40215	1RB#12	24.00	PASS
Band41	5MHz	QPSK	40215	1RB#24	23.95	PASS
Band41	5MHz	QPSK	40215	12RB#0	23.02	PASS
Band41	5MHz	QPSK	40215	12RB#6	22.92	PASS
Band41	5MHz	QPSK	40215	12RB#13	22.96	PASS
Band41	5MHz	QPSK	40215	25RB#0	22.92	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.36	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.40	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.43	PASS
Band41	5MHz	QPSK	40620	12RB#0	22.33	PASS
Band41	5MHz	QPSK	40620	12RB#6	22.32	PASS
Band41	5MHz	QPSK	40620	12RB#13	22.42	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.32	PASS
Band41	5MHz	QPSK	41215	1RB#0	23.00	PASS
Band41	5MHz	QPSK	41215	1RB#12	23.16	PASS
Band41	5MHz	QPSK	41215	1RB#24	23.04	PASS
Band41	5MHz	QPSK	41215	12RB#0	22.24	PASS
Band41	5MHz	QPSK	41215	12RB#6	22.25	PASS
Band41	5MHz	QPSK	41215	12RB#13	22.09	PASS
Band41	5MHz	QPSK	41215	25RB#0	22.14	PASS
Band41	5MHz	16QAM	39675	1RB#0	-0.52	PASS
Band41	5MHz	16QAM	39675	1RB#12	8.15	PASS
Band41	5MHz	16QAM	39675	1RB#24	14.85	PASS
Band41	5MHz	16QAM	39675	12RB#0	9.49	PASS

Band41	5MHz	16QAM	39675	12RB#6	9.64	PASS
Band41	5MHz	16QAM	39675	12RB#13	7.79	PASS
Band41	5MHz	16QAM	39675	25RB#0	5.73	PASS
Band41	5MHz	16QAM	40215	1RB#0	22.95	PASS
Band41	5MHz	16QAM	40215	1RB#12	22.88	PASS
Band41	5MHz	16QAM	40215	1RB#24	23.02	PASS
Band41	5MHz	16QAM	40215	12RB#0	22.04	PASS
Band41	5MHz	16QAM	40215	12RB#6	21.98	PASS
Band41	5MHz	16QAM	40215	12RB#13	21.95	PASS
Band41	5MHz	16QAM	40215	25RB#0	21.99	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.50	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.89	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.72	PASS
Band41	5MHz	16QAM	40620	12RB#0	21.41	PASS
Band41	5MHz	16QAM	40620	12RB#6	21.40	PASS
Band41	5MHz	16QAM	40620	12RB#13	21.33	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.38	PASS
Band41	5MHz	16QAM	41215	1RB#0	22.60	PASS
Band41	5MHz	16QAM	41215	1RB#12	22.65	PASS
Band41	5MHz	16QAM	41215	1RB#24	22.47	PASS
Band41	5MHz	16QAM	41215	12RB#0	21.32	PASS
Band41	5MHz	16QAM	41215	12RB#6	21.22	PASS
Band41	5MHz	16QAM	41215	12RB#13	21.26	PASS
Band41	5MHz	16QAM	41215	25RB#0	21.36	PASS
Band41	10MHz	QPSK	39700	1RB#0	2.06	PASS
Band41	10MHz	QPSK	39700	1RB#24	16.39	PASS
Band41	10MHz	QPSK	39700	1RB#49	18.37	PASS
Band41	10MHz	QPSK	39700	25RB#0	14.06	PASS
Band41	10MHz	QPSK	39700	25RB#12	14.09	PASS
Band41	10MHz	QPSK	39700	25RB#25	17.67	PASS
Band41	10MHz	QPSK	39700	50RB#0	16.20	PASS
Band41	10MHz	QPSK	40190	1RB#0	23.81	PASS
Band41	10MHz	QPSK	40190	1RB#24	23.78	PASS
Band41	10MHz	QPSK	40190	1RB#49	23.65	PASS
Band41	10MHz	QPSK	40190	25RB#0	23.05	PASS
Band41	10MHz	QPSK	40190	25RB#12	22.95	PASS
Band41	10MHz	QPSK	40190	25RB#25	22.91	PASS

Band41	10MHz	QPSK	40190	50RB#0	23.07	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.18	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.30	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.25	PASS
Band41	10MHz	QPSK	40620	25RB#0	22.46	PASS
Band41	10MHz	QPSK	40620	25RB#12	22.43	PASS
Band41	10MHz	QPSK	40620	25RB#25	22.35	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.31	PASS
Band41	10MHz	QPSK	41190	1RB#0	22.94	PASS
Band41	10MHz	QPSK	41190	1RB#24	22.95	PASS
Band41	10MHz	QPSK	41190	1RB#49	23.13	PASS
Band41	10MHz	QPSK	41190	25RB#0	22.12	PASS
Band41	10MHz	QPSK	41190	25RB#12	22.23	PASS
Band41	10MHz	QPSK	41190	25RB#25	22.14	PASS
Band41	10MHz	QPSK	41190	50RB#0	22.15	PASS
Band41	10MHz	16QAM	39700	1RB#0	0.87	PASS
Band41	10MHz	16QAM	39700	1RB#24	15.55	PASS
Band41	10MHz	16QAM	39700	1RB#49	17.58	PASS
Band41	10MHz	16QAM	39700	25RB#0	12.64	PASS
Band41	10MHz	16QAM	39700	25RB#12	12.42	PASS
Band41	10MHz	16QAM	39700	25RB#25	16.63	PASS
Band41	10MHz	16QAM	39700	50RB#0	15.01	PASS
Band41	10MHz	16QAM	40190	1RB#0	22.89	PASS
Band41	10MHz	16QAM	40190	1RB#24	23.39	PASS
Band41	10MHz	16QAM	40190	1RB#49	22.97	PASS
Band41	10MHz	16QAM	40190	25RB#0	22.03	PASS
Band41	10MHz	16QAM	40190	25RB#12	22.10	PASS
Band41	10MHz	16QAM	40190	25RB#25	22.02	PASS
Band41	10MHz	16QAM	40190	50RB#0	21.93	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.33	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.51	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.27	PASS
Band41	10MHz	16QAM	40620	25RB#0	21.45	PASS
Band41	10MHz	16QAM	40620	25RB#12	21.51	PASS
Band41	10MHz	16QAM	40620	25RB#25	21.45	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.36	PASS
Band41	10MHz	16QAM	41190	1RB#0	22.23	PASS

Band41	10MHz	16QAM	41190	1RB#24	22.88	PASS
Band41	10MHz	16QAM	41190	1RB#49	22.54	PASS
Band41	10MHz	16QAM	41190	25RB#0	21.22	PASS
Band41	10MHz	16QAM	41190	25RB#12	21.22	PASS
Band41	10MHz	16QAM	41190	25RB#25	21.16	PASS
Band41	10MHz	16QAM	41190	50RB#0	21.21	PASS
Band41	15MHz	QPSK	40165	1RB#0	23.83	PASS
Band41	15MHz	QPSK	40165	1RB#38	23.84	PASS
Band41	15MHz	QPSK	40165	1RB#74	23.70	PASS
Band41	15MHz	QPSK	40165	38RB#0	23.04	PASS
Band41	15MHz	QPSK	40165	38RB#18	23.02	PASS
Band41	15MHz	QPSK	40165	38RB#37	22.91	PASS
Band41	15MHz	QPSK	40165	75RB#0	22.91	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.19	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.07	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.22	PASS
Band41	15MHz	QPSK	40620	38RB#0	22.31	PASS
Band41	15MHz	QPSK	40620	38RB#18	22.30	PASS
Band41	15MHz	QPSK	40620	38RB#37	22.29	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.30	PASS
Band41	15MHz	QPSK	41165	1RB#0	23.04	PASS
Band41	15MHz	QPSK	41165	1RB#38	22.97	PASS
Band41	15MHz	QPSK	41165	1RB#74	23.01	PASS
Band41	15MHz	QPSK	41165	38RB#0	22.20	PASS
Band41	15MHz	QPSK	41165	38RB#18	22.10	PASS
Band41	15MHz	QPSK	41165	38RB#37	22.10	PASS
Band41	15MHz	QPSK	41165	75RB#0	22.10	PASS
Band41	15MHz	16QAM	40165	1RB#0	23.01	PASS
Band41	15MHz	16QAM	40165	1RB#38	22.97	PASS
Band41	15MHz	16QAM	40165	1RB#74	22.97	PASS
Band41	15MHz	16QAM	40165	38RB#0	23.03	PASS
Band41	15MHz	16QAM	40165	38RB#18	23.02	PASS
Band41	15MHz	16QAM	40165	38RB#37	22.88	PASS
Band41	15MHz	16QAM	40165	75RB#0	22.02	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.20	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.26	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.43	PASS

Band41	15MHz	16QAM	40620	38RB#0	22.30	PASS
Band41	15MHz	16QAM	40620	38RB#18	22.29	PASS
Band41	15MHz	16QAM	40620	38RB#37	22.29	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.37	PASS
Band41	15MHz	16QAM	41165	1RB#0	22.12	PASS
Band41	15MHz	16QAM	41165	1RB#38	21.94	PASS
Band41	15MHz	16QAM	41165	1RB#74	22.02	PASS
Band41	15MHz	16QAM	41165	38RB#0	22.21	PASS
Band41	15MHz	16QAM	41165	38RB#18	22.10	PASS
Band41	15MHz	16QAM	41165	38RB#37	22.10	PASS
Band41	15MHz	16QAM	41165	75RB#0	21.20	PASS
Band41	20MHz	QPSK	40410	1RB#0	23.56	PASS
Band41	20MHz	QPSK	40410	1RB#49	23.26	PASS
Band41	20MHz	QPSK	40410	1RB#99	22.99	PASS
Band41	20MHz	QPSK	40410	50RB#0	22.63	PASS
Band41	20MHz	QPSK	40410	50RB#25	22.69	PASS
Band41	20MHz	QPSK	40410	50RB#50	22.45	PASS
Band41	20MHz	QPSK	40410	100RB#0	22.49	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.46	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.49	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.38	PASS
Band41	20MHz	QPSK	40620	50RB#0	22.33	PASS
Band41	20MHz	QPSK	40620	50RB#25	22.32	PASS
Band41	20MHz	QPSK	40620	50RB#50	22.46	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.41	PASS
Band41	20MHz	QPSK	41140	1RB#0	23.03	PASS
Band41	20MHz	QPSK	41140	1RB#49	23.32	PASS
Band41	20MHz	QPSK	41140	1RB#99	23.07	PASS
Band41	20MHz	QPSK	41140	50RB#0	22.17	PASS
Band41	20MHz	QPSK	41140	50RB#25	22.28	PASS
Band41	20MHz	QPSK	41140	50RB#50	22.23	PASS
Band41	20MHz	QPSK	41140	100RB#0	22.26	PASS
Band41	20MHz	16QAM	40410	1RB#0	23.26	PASS
Band41	20MHz	16QAM	40410	1RB#49	23.06	PASS
Band41	20MHz	16QAM	40410	1RB#99	22.67	PASS
Band41	20MHz	16QAM	40410	50RB#0	21.79	PASS
Band41	20MHz	16QAM	40410	50RB#25	21.75	PASS

Band41	20MHz	16QAM	40410	50RB#50	21.52	PASS
Band41	20MHz	16QAM	40410	100RB#0	21.53	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.33	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.36	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.20	PASS
Band41	20MHz	16QAM	40620	50RB#0	21.34	PASS
Band41	20MHz	16QAM	40620	50RB#25	21.41	PASS
Band41	20MHz	16QAM	40620	50RB#50	21.55	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.46	PASS
Band41	20MHz	16QAM	41140	1RB#0	22.60	PASS
Band41	20MHz	16QAM	41140	1RB#49	22.70	PASS
Band41	20MHz	16QAM	41140	1RB#99	22.50	PASS
Band41	20MHz	16QAM	41140	50RB#0	21.33	PASS
Band41	20MHz	16QAM	41140	50RB#25	21.33	PASS
Band41	20MHz	16QAM	41140	50RB#50	21.32	PASS
Band41	20MHz	16QAM	41140	100RB#0	21.32	PASS

2. Peak-to-Average Ratio(CCDF)

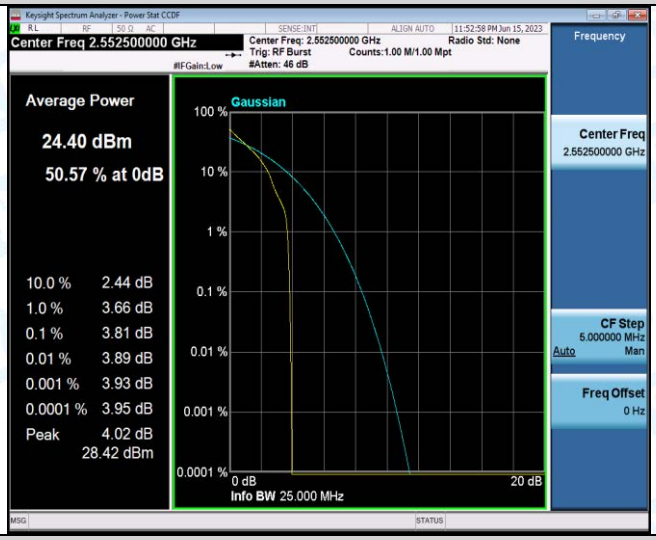
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	40215	1RB#0	3.81	13	PASS
Band41	5MHz	QPSK	40215	25RB#0	4.49	13	PASS
Band41	5MHz	QPSK	40620	1RB#0	4.18	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.78	13	PASS
Band41	5MHz	QPSK	41215	1RB#0	3.62	13	PASS
Band41	5MHz	QPSK	41215	25RB#0	4.04	13	PASS
Band41	5MHz	16QAM	40215	1RB#0	5.10	13	PASS
Band41	5MHz	16QAM	40215	25RB#0	5.36	13	PASS
Band41	5MHz	16QAM	40620	1RB#0	5.34	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	5.87	13	PASS
Band41	5MHz	16QAM	41215	1RB#0	4.76	13	PASS
Band41	5MHz	16QAM	41215	25RB#0	4.92	13	PASS
Band41	10MHz	QPSK	40190	1RB#0	4.09	13	PASS
Band41	10MHz	QPSK	40190	50RB#0	4.49	13	PASS
Band41	10MHz	QPSK	40620	1RB#0	4.36	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	5.02	13	PASS
Band41	10MHz	QPSK	41190	1RB#0	3.53	13	PASS
Band41	10MHz	QPSK	41190	50RB#0	4.13	13	PASS
Band41	10MHz	16QAM	40190	1RB#0	4.88	13	PASS
Band41	10MHz	16QAM	40190	50RB#0	5.59	13	PASS
Band41	10MHz	16QAM	40620	1RB#0	5.06	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	5.69	13	PASS
Band41	10MHz	16QAM	41190	1RB#0	4.72	13	PASS
Band41	10MHz	16QAM	41190	50RB#0	5.24	13	PASS
Band41	15MHz	QPSK	40165	1RB#0	3.81	13	PASS
Band41	15MHz	QPSK	40165	75RB#0	4.67	13	PASS
Band41	15MHz	QPSK	40620	1RB#0	4.67	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	4.91	13	PASS
Band41	15MHz	QPSK	41165	1RB#0	3.66	13	PASS
Band41	15MHz	QPSK	41165	75RB#0	4.46	13	PASS
Band41	15MHz	16QAM	40165	1RB#0	4.86	13	PASS

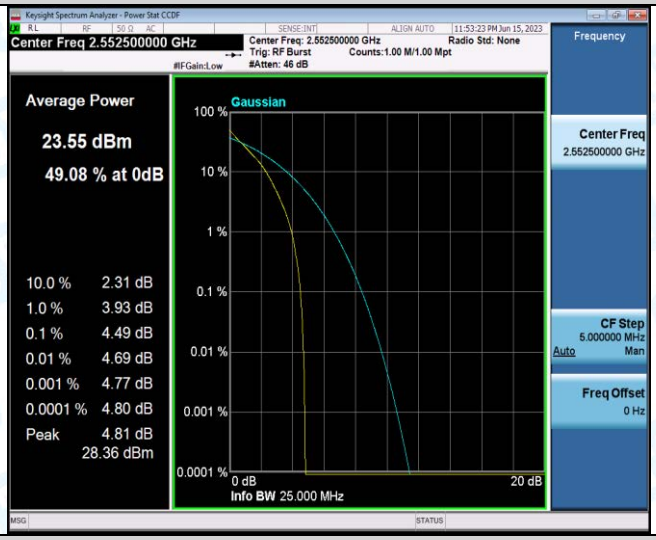
Band41	15MHz	16QAM	40165	75RB#0	5.50	13	PASS
Band41	15MHz	16QAM	40620	1RB#0	5.57	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	5.70	13	PASS
Band41	15MHz	16QAM	41165	1RB#0	4.90	13	PASS
Band41	15MHz	16QAM	41165	75RB#0	5.27	13	PASS
Band41	20MHz	QPSK	40410	1RB#0	4.26	13	PASS
Band41	20MHz	QPSK	40410	100RB#0	4.79	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	4.30	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	4.80	13	PASS
Band41	20MHz	QPSK	41140	1RB#0	4.21	13	PASS
Band41	20MHz	QPSK	41140	100RB#0	4.71	13	PASS
Band41	20MHz	16QAM	40410	1RB#0	4.78	13	PASS
Band41	20MHz	16QAM	40410	100RB#0	5.62	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	4.85	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	5.89	13	PASS
Band41	20MHz	16QAM	41140	1RB#0	4.55	13	PASS
Band41	20MHz	16QAM	41140	100RB#0	5.38	13	PASS

Test Graphs

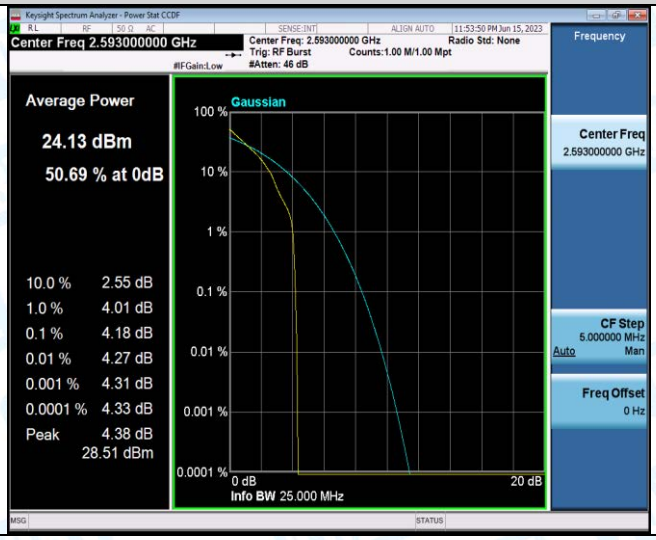
Band41-5MHz-QPSK-40215-1RB#0



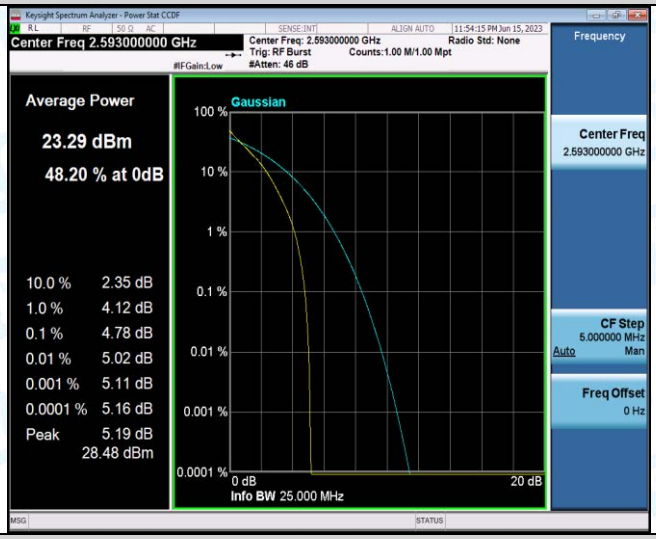
Band41-5MHz-QPSK-40215-25RB#0



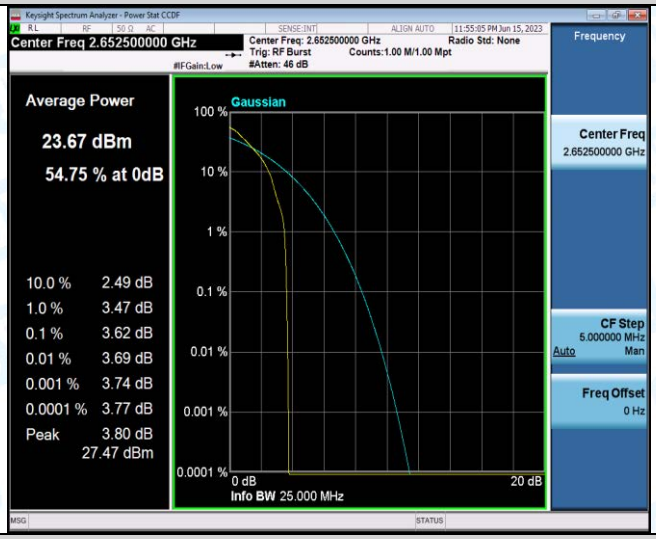
Band41-5MHz-QPSK-40620-1RB#0



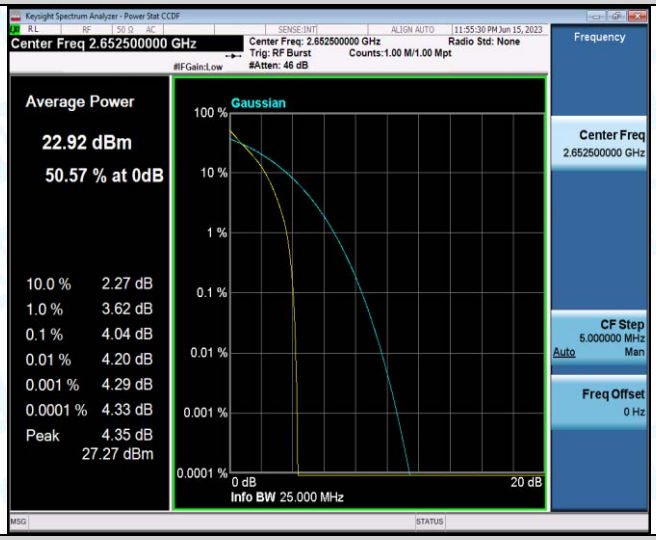
Band41-5MHz-QPSK-40620-25RB#0



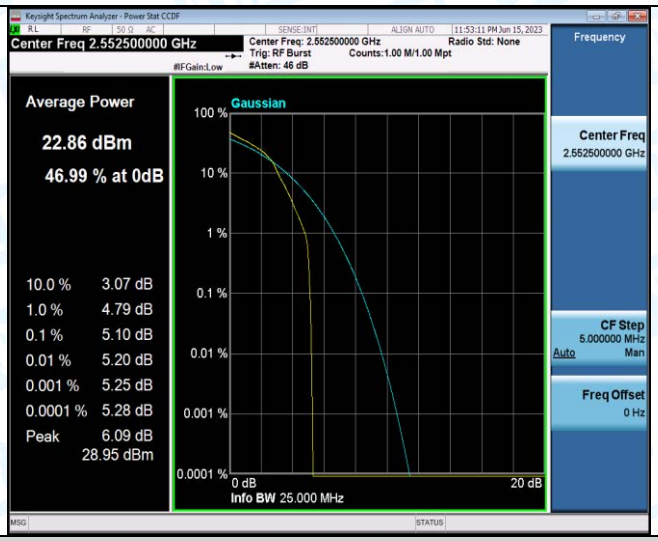
Band41-5MHz-QPSK-41215-1RB#0



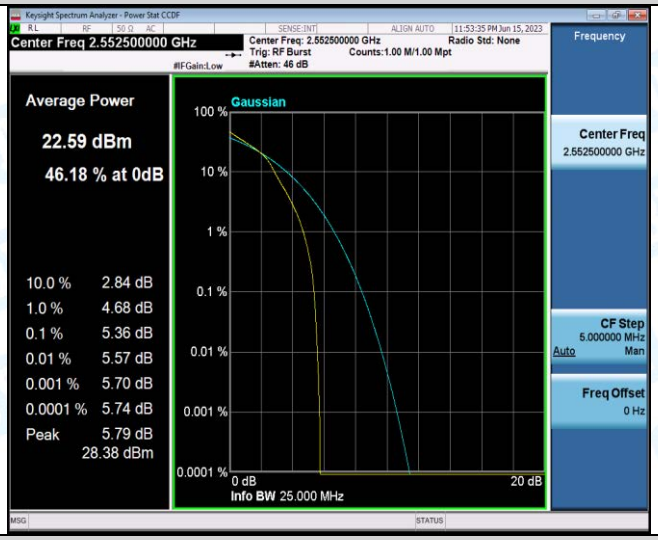
Band41-5MHz-QPSK-41215-25RB#0



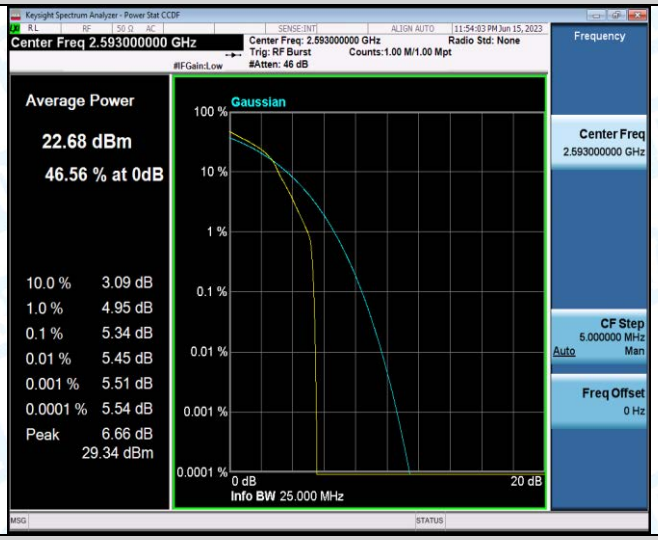
Band41-5MHz-16QAM-40215-1RB#0



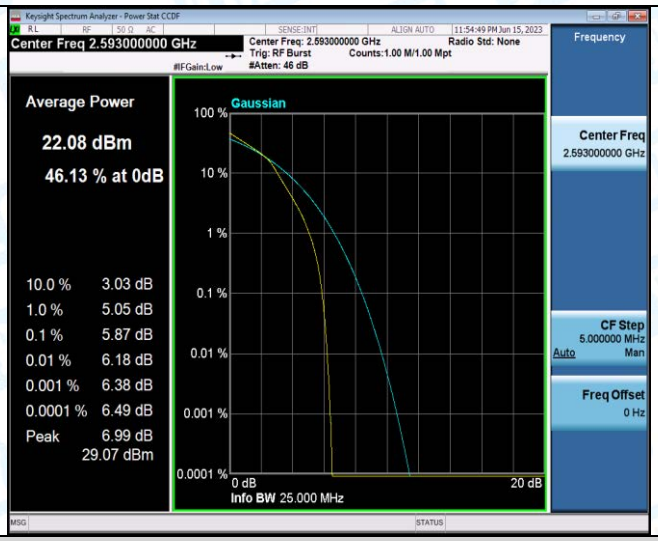
Band41-5MHz-16QAM-40215-25RB#0



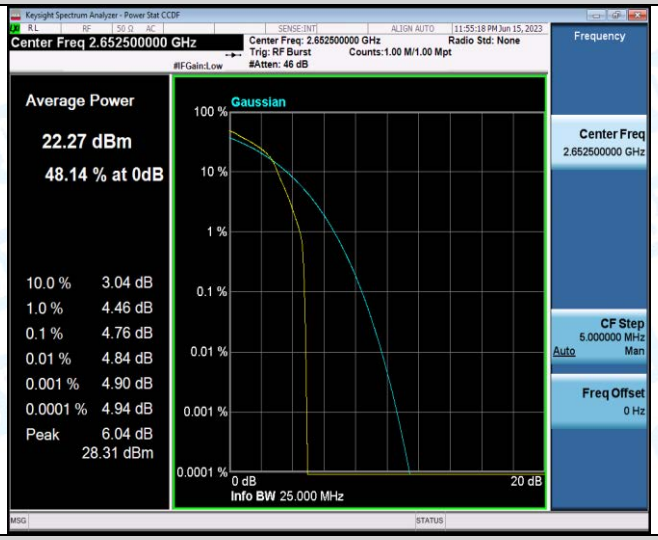
Band41-5MHz-16QAM-40620-1RB#0



Band41-5MHz-16QAM-40620-25RB#0



Band41-5MHz-16QAM-41215-1RB#0



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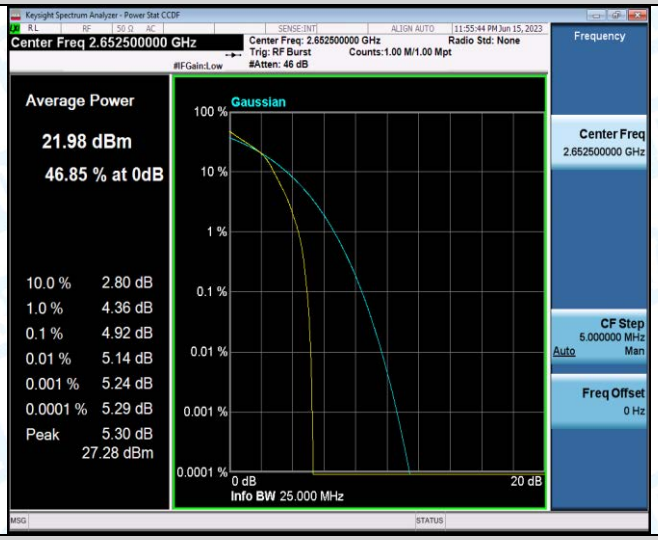

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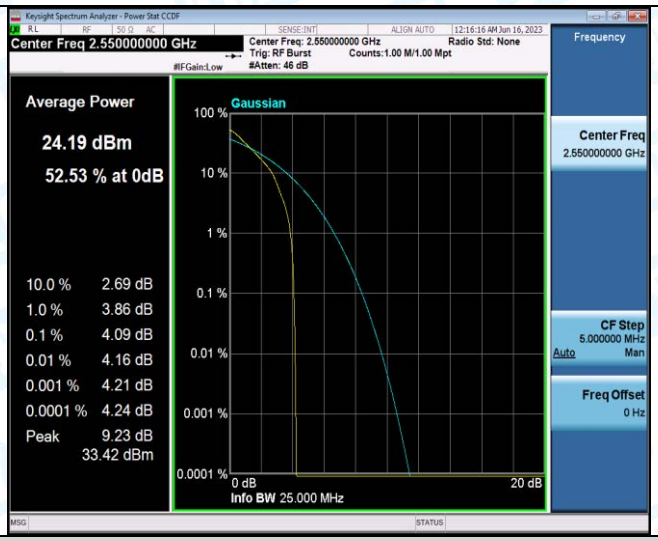

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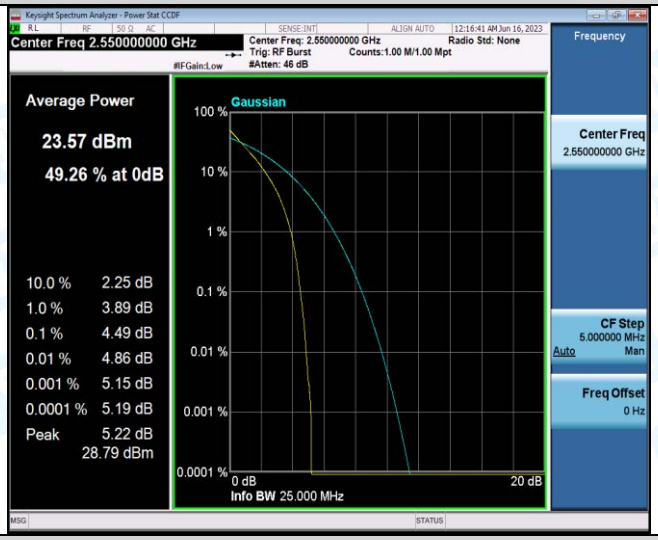

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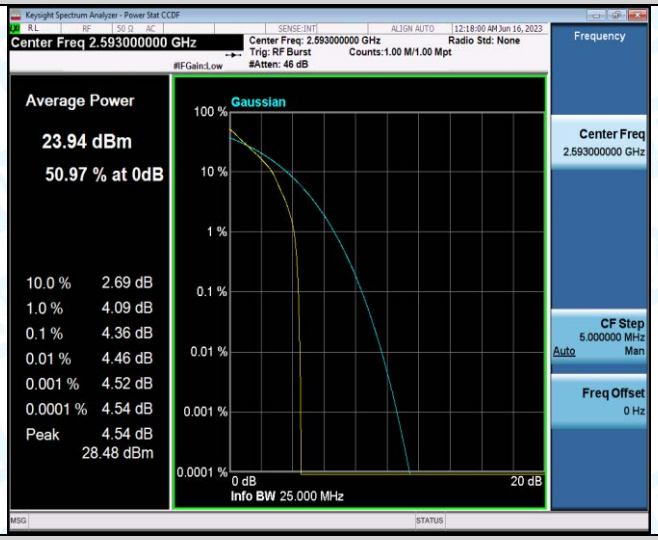

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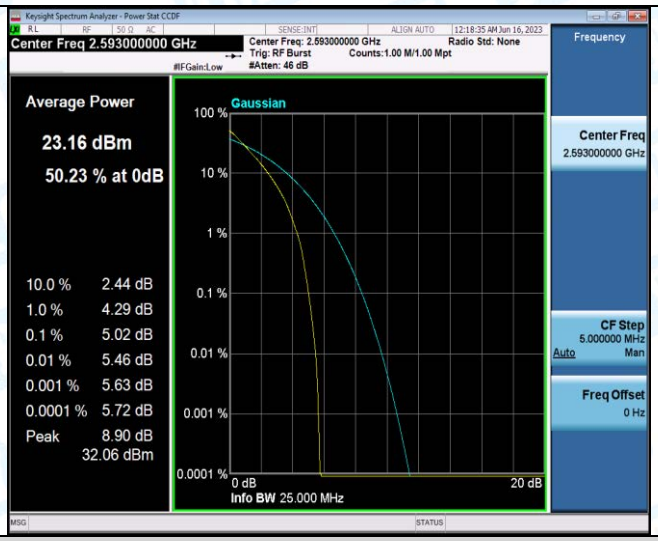

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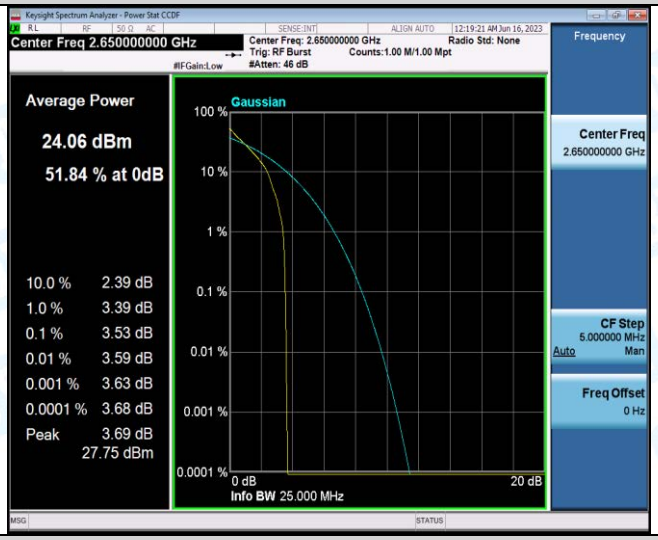

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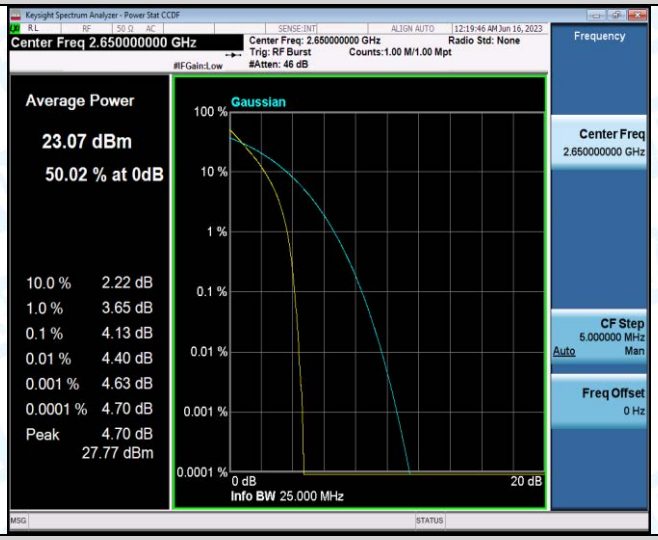

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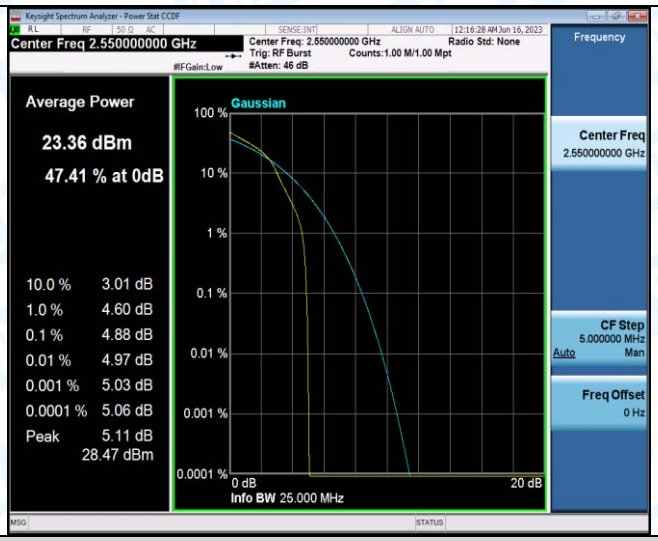

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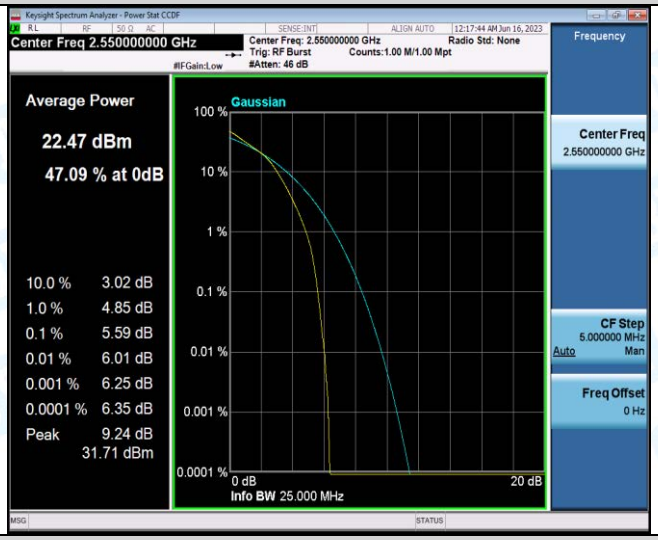

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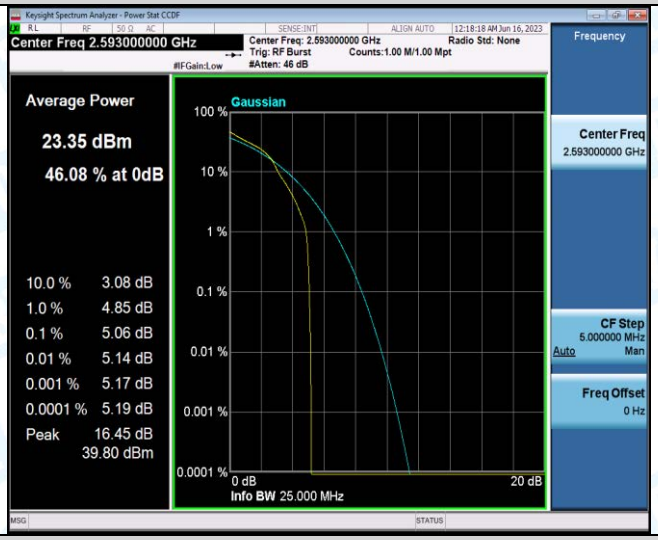

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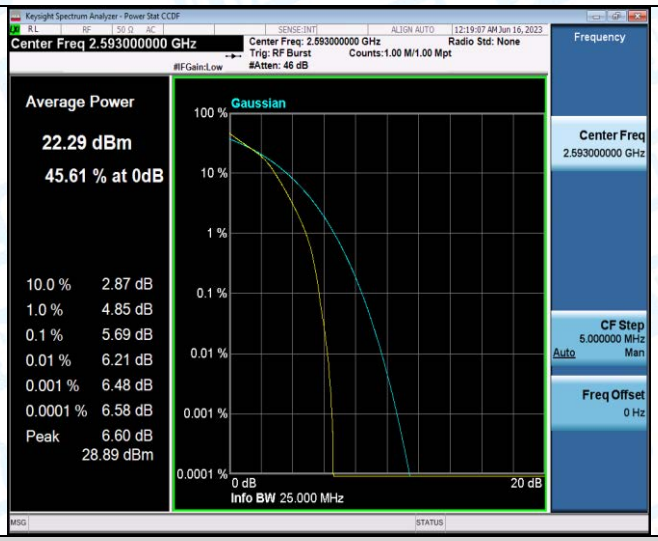

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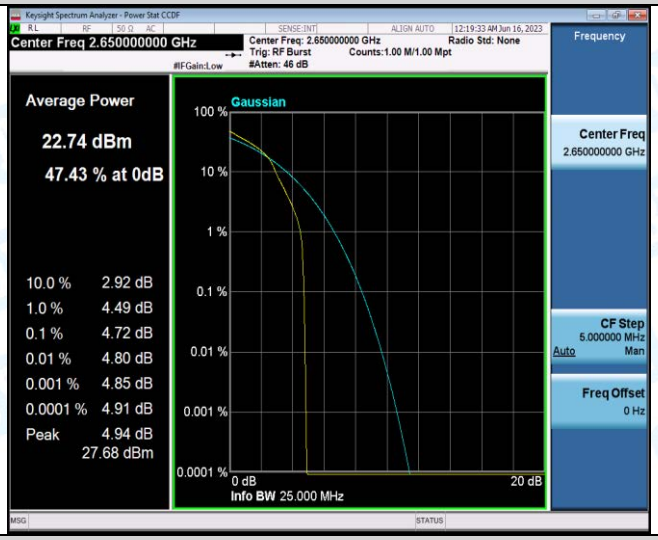

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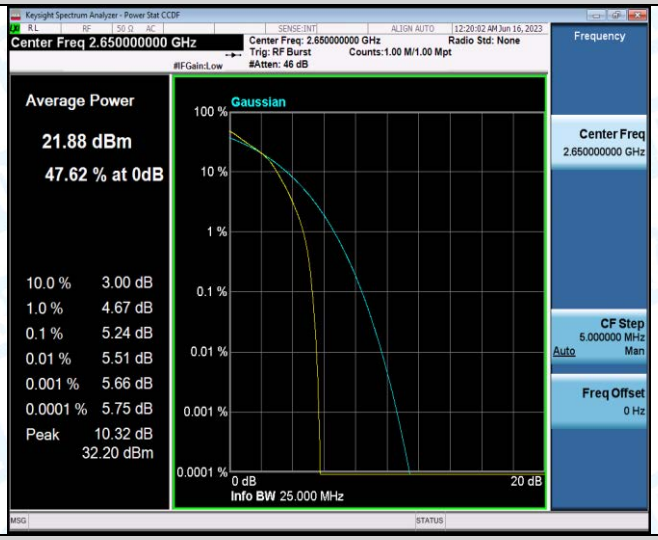

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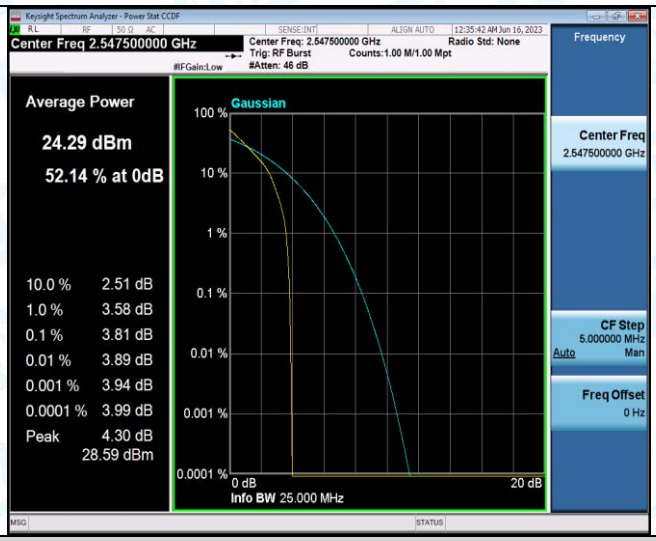

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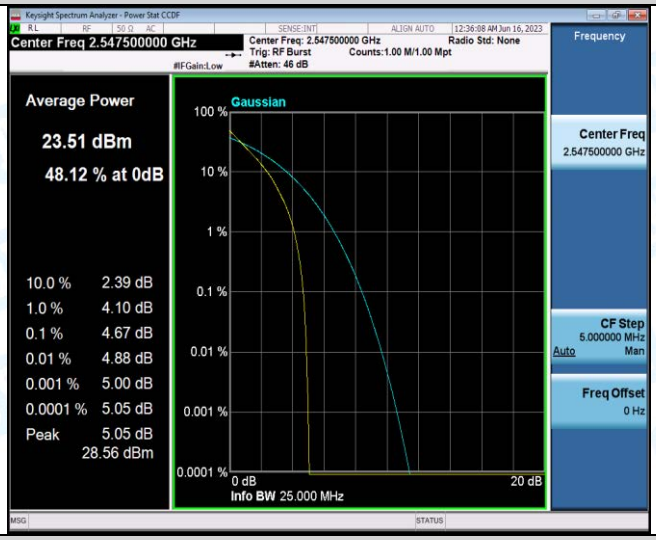

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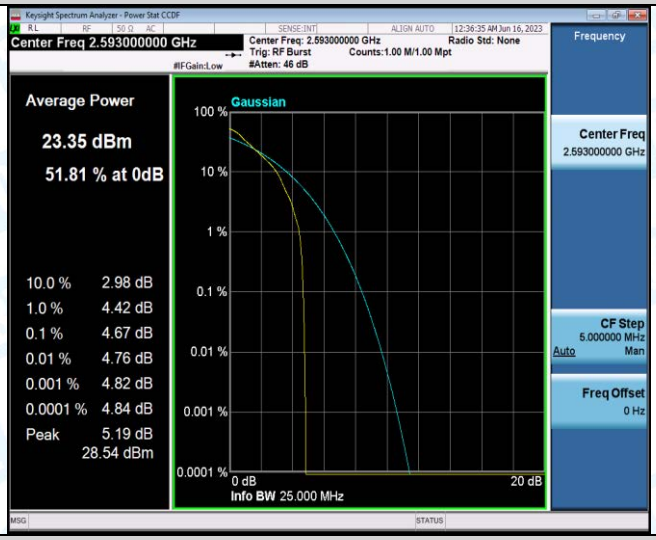

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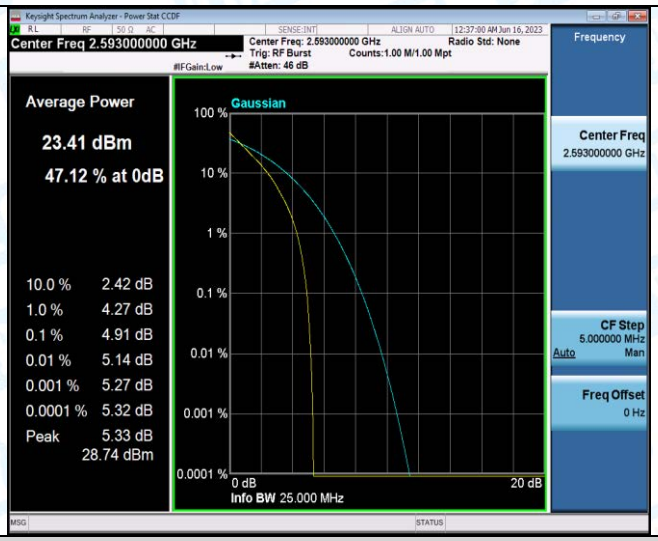

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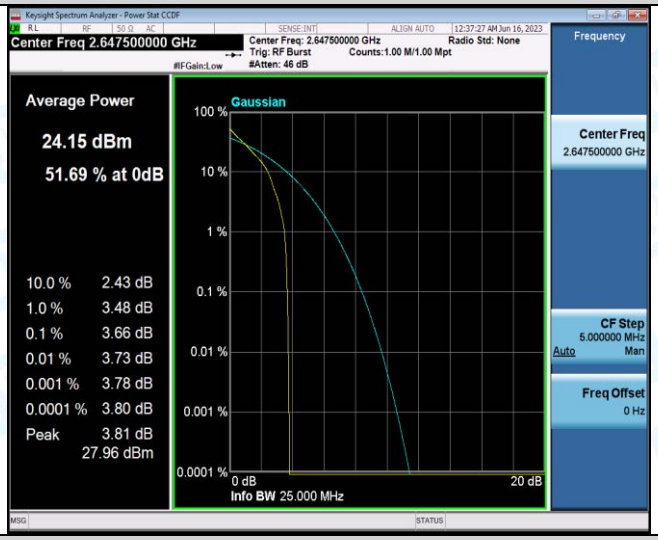

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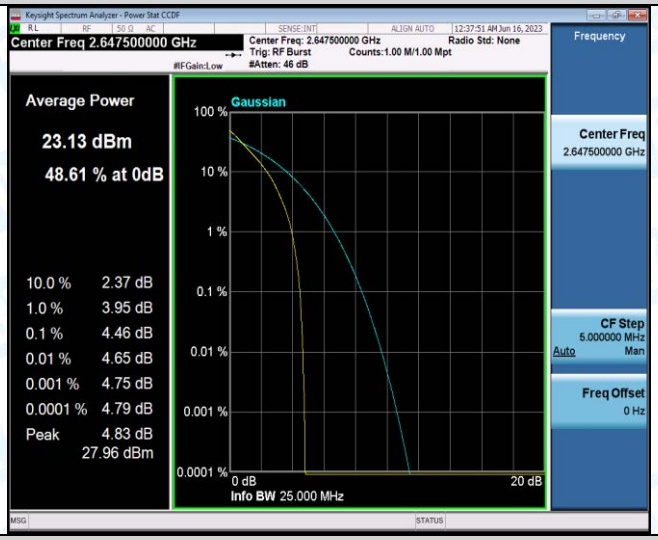

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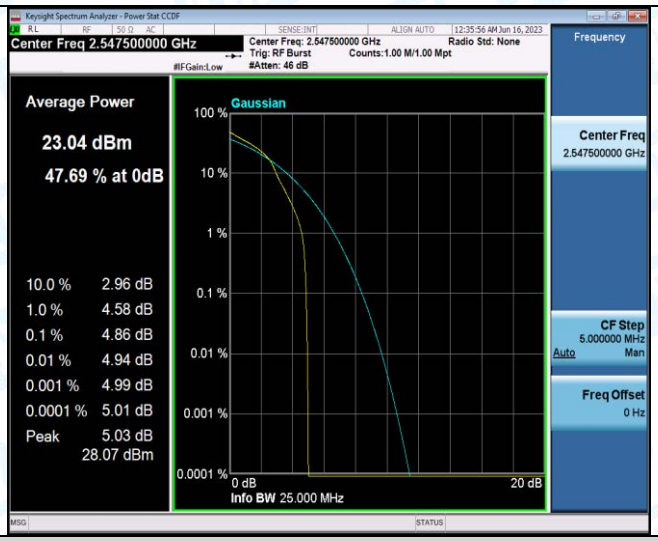

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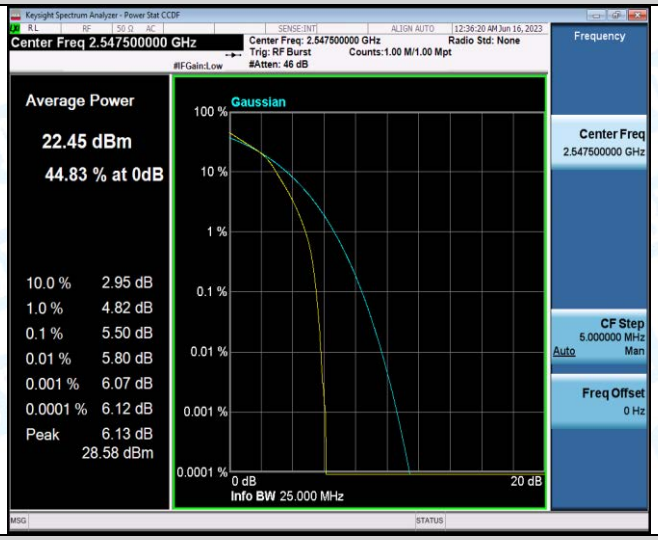

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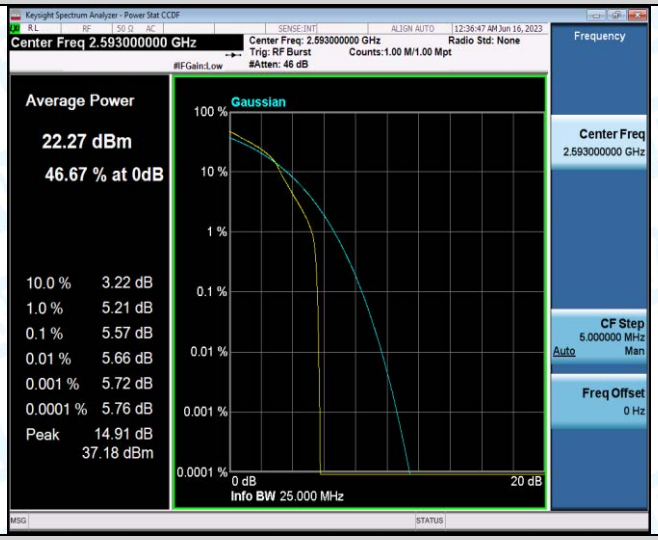

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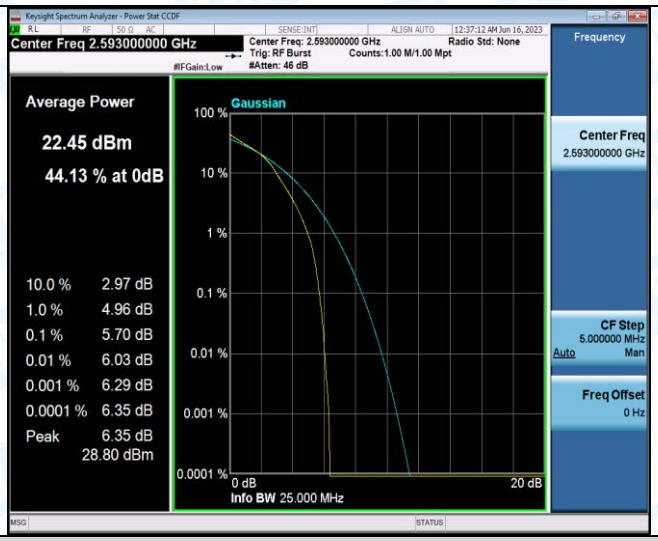

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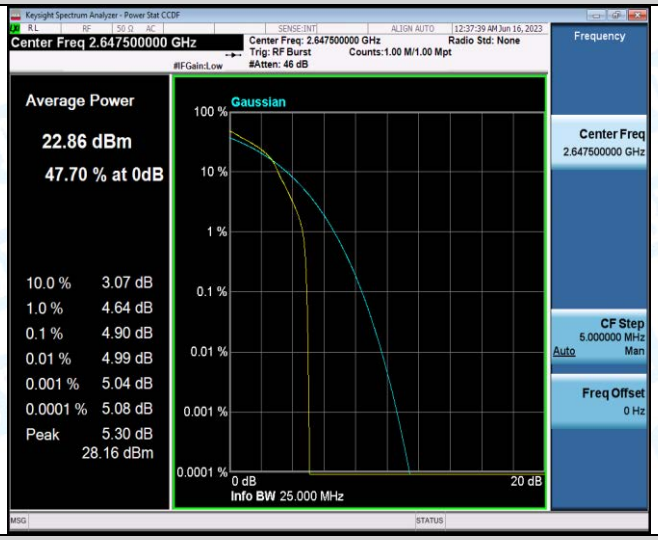

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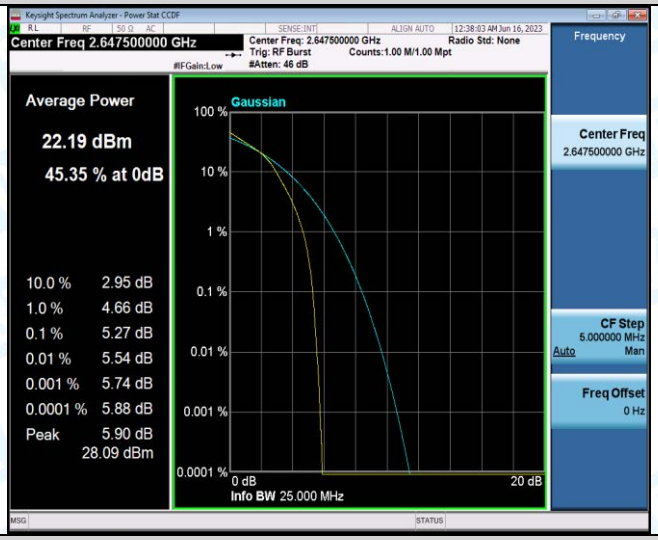

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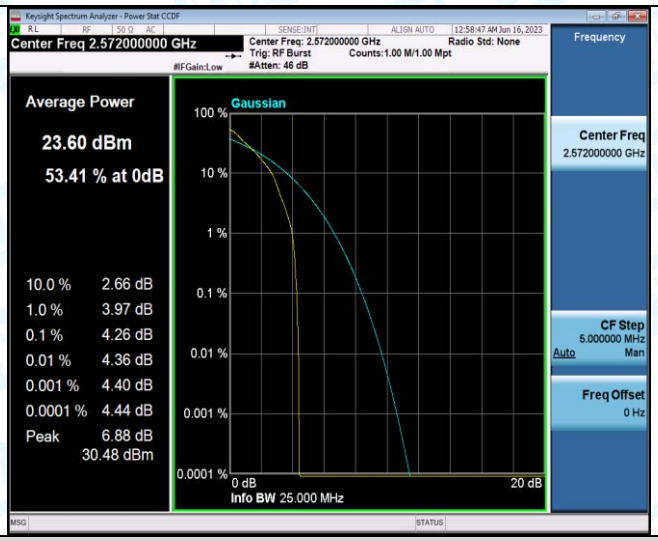

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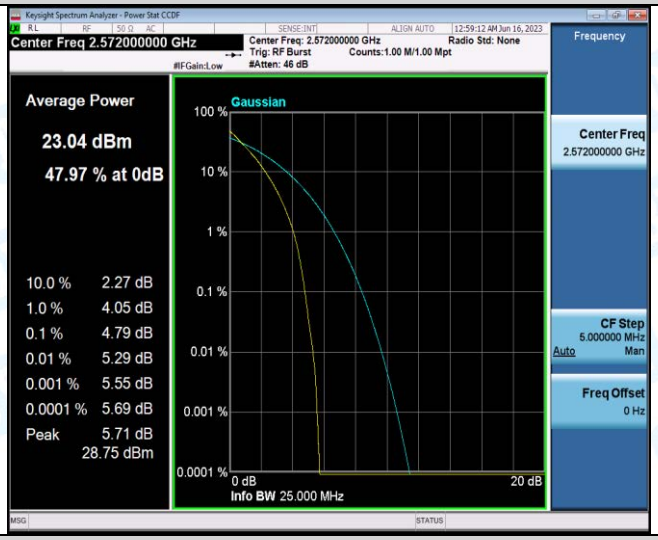
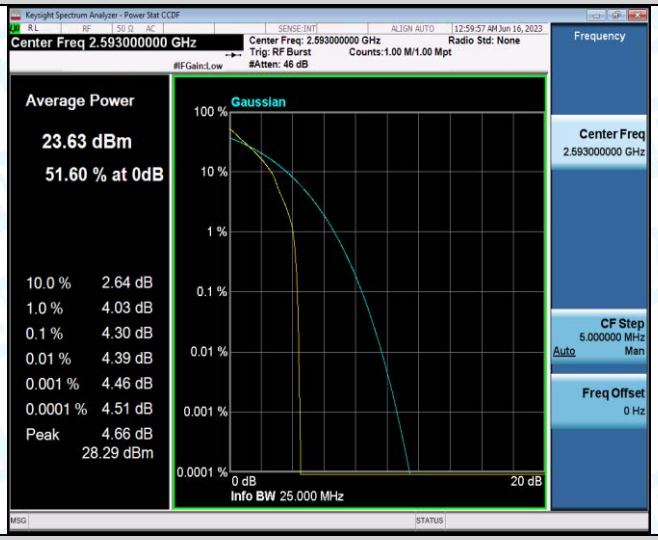
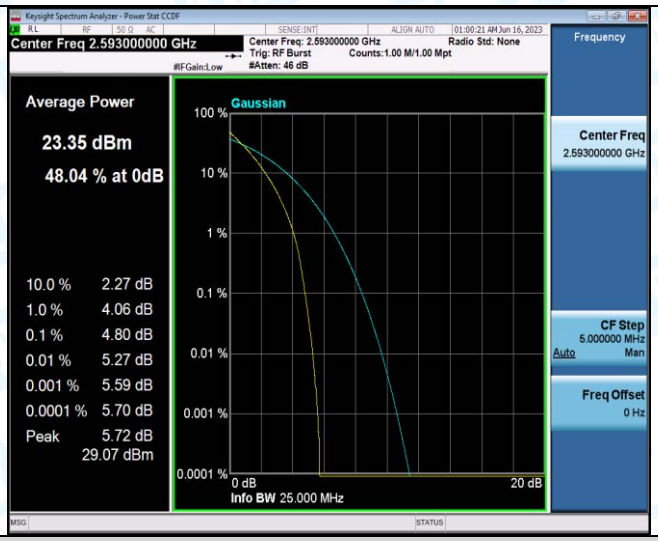


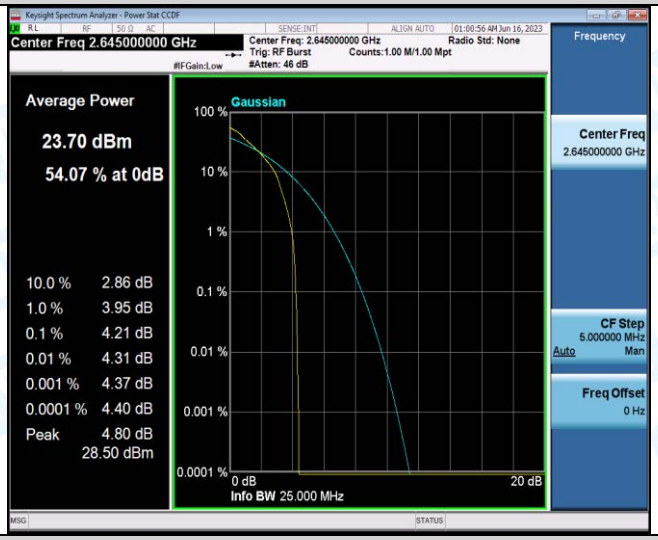
Band41-20MHz-QPSK-40620-1RB#0



Band41-20MHz-QPSK-40620-100RB#0



Band41-20MHz-QPSK-41140-1RB#0



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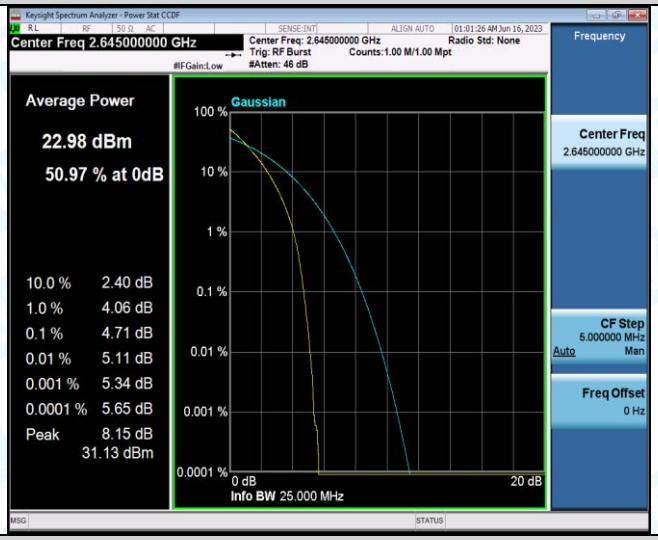

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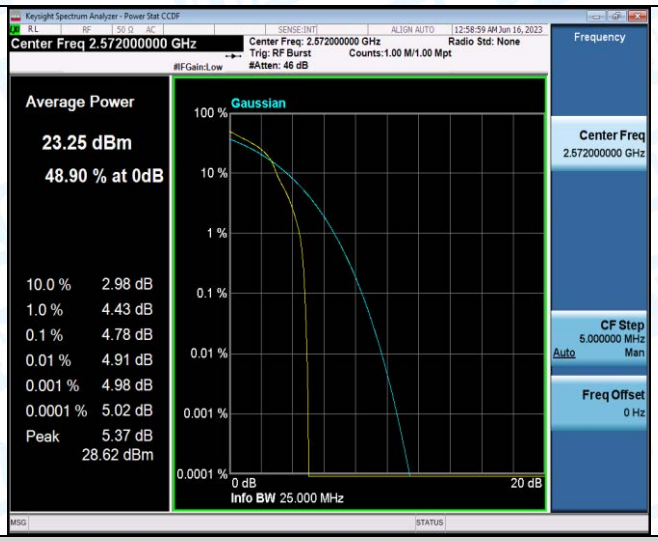

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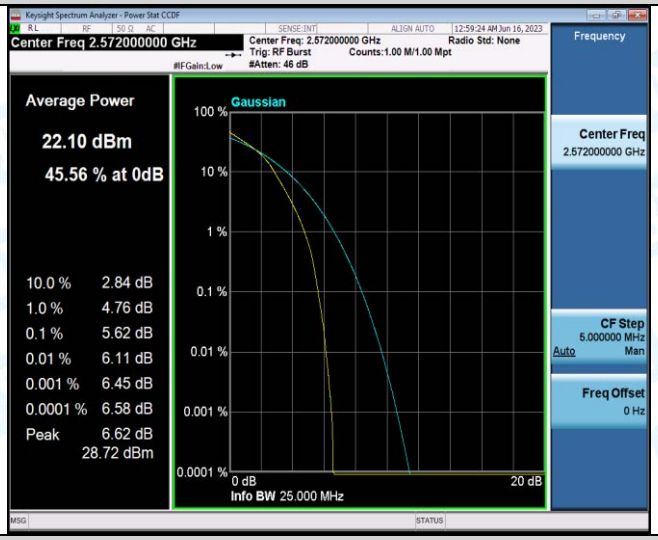

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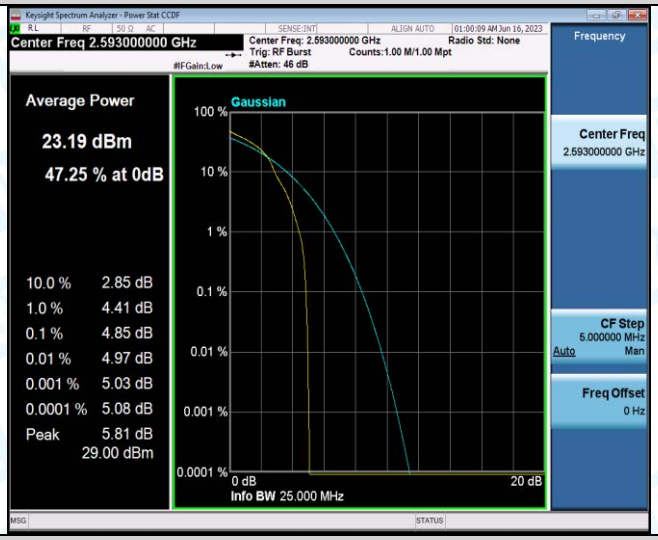
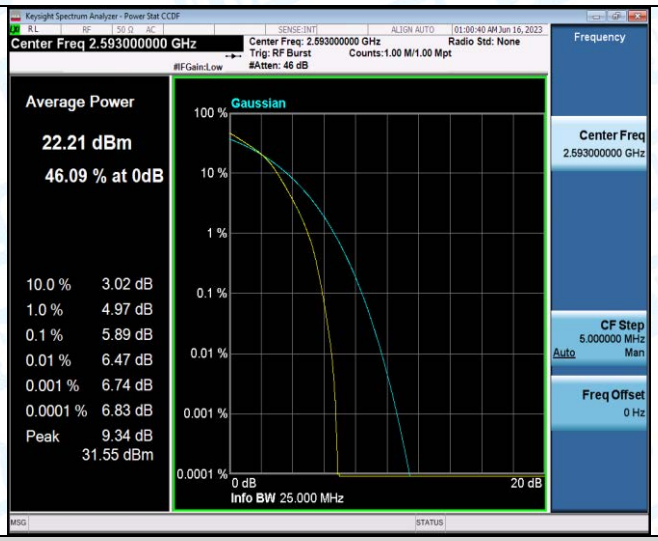


Band41-20MHz-16QAM-40620-100RB#0



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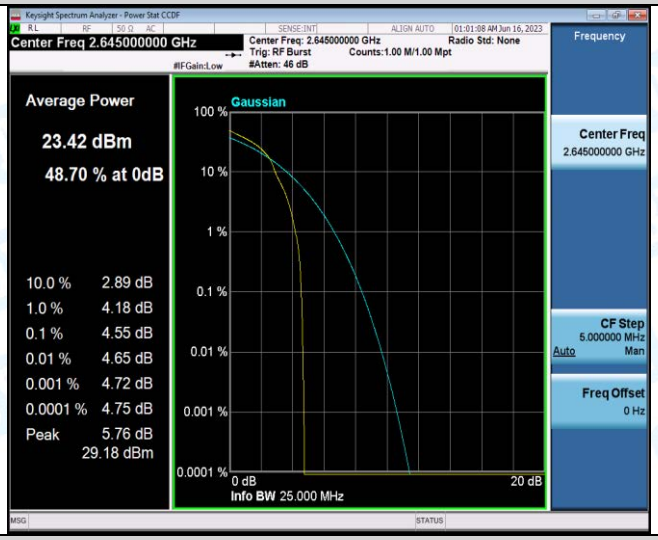
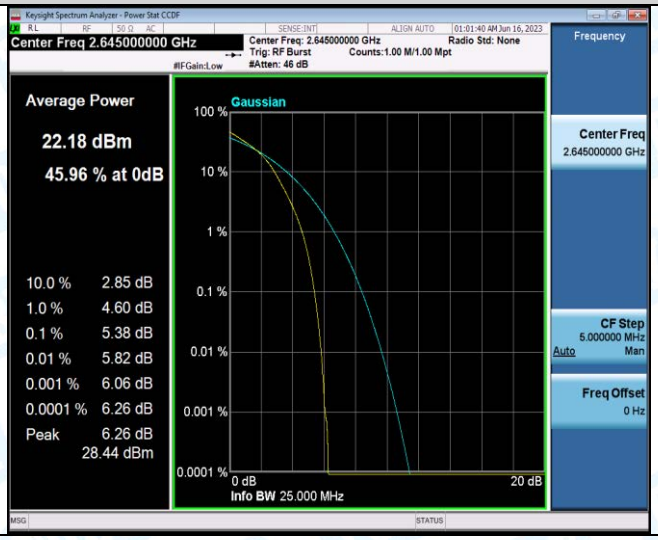


Band41-20MHz-16QAM-41140-100RB#0



3. 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	40215	25RB#0	4.5003	5.005	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.5008	4.995	PASS
Band41	5MHz	QPSK	41215	25RB#0	4.5037	5.005	PASS
Band41	5MHz	16QAM	40215	25RB#0	4.4984	4.988	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4924	5.001	PASS
Band41	5MHz	16QAM	41215	25RB#0	4.5035	5.012	PASS
Band41	10MHz	QPSK	40190	50RB#0	8.9562	9.909	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9571	9.871	PASS
Band41	10MHz	QPSK	41190	50RB#0	8.9656	9.858	PASS
Band41	10MHz	16QAM	40190	50RB#0	8.9666	9.767	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9587	9.765	PASS
Band41	10MHz	16QAM	41190	50RB#0	8.9621	9.772	PASS
Band41	15MHz	QPSK	40165	75RB#0	13.446	15.70	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.469	15.47	PASS
Band41	15MHz	QPSK	41165	75RB#0	13.472	15.64	PASS
Band41	15MHz	16QAM	40165	75RB#0	13.439	15.36	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.436	15.22	PASS
Band41	15MHz	16QAM	41165	75RB#0	13.440	15.19	PASS
Band41	20MHz	QPSK	40410	100RB#0	17.901	19.24	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.822	19.21	PASS
Band41	20MHz	QPSK	41140	100RB#0	17.868	19.33	PASS
Band41	20MHz	16QAM	40410	100RB#0	17.925	19.69	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.883	19.59	PASS
Band41	20MHz	16QAM	41140	100RB#0	17.841	19.63	PASS

Test Graphs

Band41-5MHz-QPSK-40215-25RB#0

Band41-5MHz-QPSK-40620-25RB#0

Band41-5MHz-QPSK-41215-25RB#0

Band41-5MHz-16QAM-40215-25RB#0

Band41-5MHz-16QAM-40620-25RB#0

Band41-5MHz-16QAM-41215-25RB#0

Band41-10MHz-QPSK-40190-50RB#0

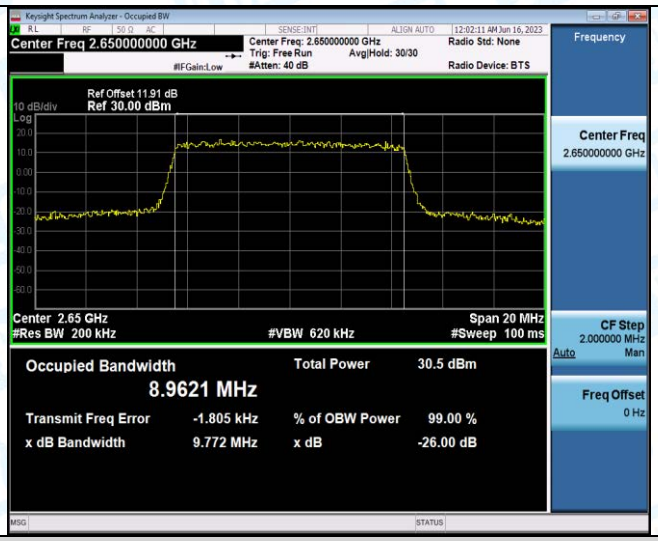
Band41-10MHz-QPSK-40620-50RB#0

Band41-10MHz-QPSK-41190-50RB#0

Band41-10MHz-16QAM-40190-50RB#0

Band41-10MHz-16QAM-40620-50RB#0

Band41-10MHz-16QAM-41190-50RB#0



Band41-15MHz-QPSK-40165-75RB#0

Band41-15MHz-QPSK-40620-75RB#0

Band41-15MHz-QPSK-41165-75RB#0

Band41-15MHz-16QAM-40165-75RB#0

Band41-15MHz-16QAM-40620-75RB#0

Band41-15MHz-16QAM-41165-75RB#0

Band41-20MHz-QPSK-40410-100RB#0

Band41-20MHz-QPSK-40620-100RB#0

Band41-20MHz-QPSK-41140-100RB#0

Band41-20MHz-16QAM-40410-100RB#0

Band41-20MHz-16QAM-40620-100RB#0

Band41-20MHz-16QAM-41140-100RB#0

Keysight Spectrum Analyzer - Occupied BW
Center Freq 2.645000000 GHz
Center Freq: 2.645000000 GHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
12:48:40 AM Jun 16, 2023
Frequency
Ref Offset 11.91 dB
10 dB/div
Ref 30.00 dBm
Center Freq
2.645000000 GHz
Center 2.645 GHz
Res BW 390 kHz
#VBW 1.2 MHz
Span 40 MHz
#Sweep 100 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.841 MHz
Total Power 31.2 dBm
Transmit Freq Error -44.010 kHz
% of OBW Power 99.00 %
x dB Bandwidth 19.63 MHz
x dB -26.00 dB
Freq Offset
0 Hz