

# LTE Test Data

General Description of EUT	
<b>Product Name:</b>	Smart POS Payment Terminal
<b>Test Model:</b>	CM30
<b>Sample ID:</b>	202311-0170-7-2#
Environmental Conditions	
<b>Temperature:</b>	25°C
<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 24V
<b>Test Engineer:</b>	Yan zhen ming
Note: For a more detailed features description, please refer to the report <b>TBR-C-202311-0170-86</b> . The report only show the worst case data.	

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# 1. Conducted Power Output Data

## Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.81	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.89	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.97	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.07	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.88	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.90	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.94	PASS
Band17	5MHz	16QAM	23755	12RB#0	22.12	PASS
Band17	5MHz	QPSK	23755	12RB#6	23.04	PASS
Band17	5MHz	16QAM	23755	12RB#6	22.12	PASS
Band17	5MHz	QPSK	23755	12RB#13	23.00	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.09	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.96	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.02	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.94	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.88	PASS
Band17	5MHz	QPSK	23790	1RB#12	24.03	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.91	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.87	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.73	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.88	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.93	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.88	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.93	PASS
Band17	5MHz	QPSK	23790	12RB#13	23.03	PASS
Band17	5MHz	16QAM	23790	12RB#13	22.13	PASS
Band17	5MHz	QPSK	23790	25RB#0	23.03	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.14	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.88	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.84	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.98	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.93	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.91	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.84	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.86	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.90	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.87	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.94	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.81	PASS

Band17	5MHz	16QAM	23825	12RB#13	21.83	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.85	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.91	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.33	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.35	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.57	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.56	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.38	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.41	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.51	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.55	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.47	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.52	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.65	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.73	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.59	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.64	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.35	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.26	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.63	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.45	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.42	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.25	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.44	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.53	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.39	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.55	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.51	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.56	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.44	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.53	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.44	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.16	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.50	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.43	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.41	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.21	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.38	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.50	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.35	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.48	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.34	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.45	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.32	PASS

Band17	10MHz	16QAM	23800	50RB#0	21.40	PASS
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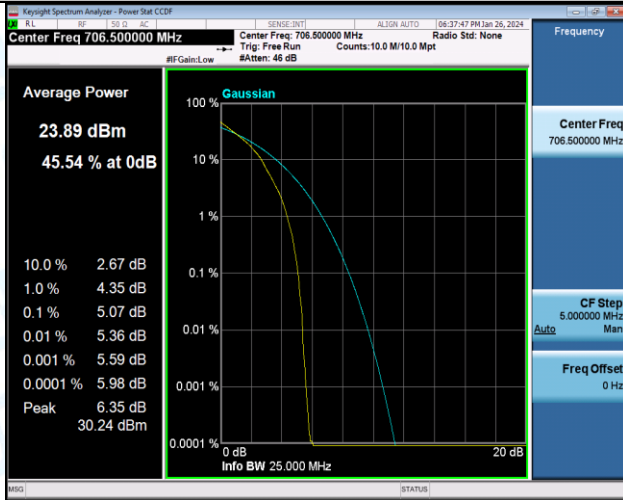
## 2. Peak-to-Average Ratio(CCDF)

### Test Result

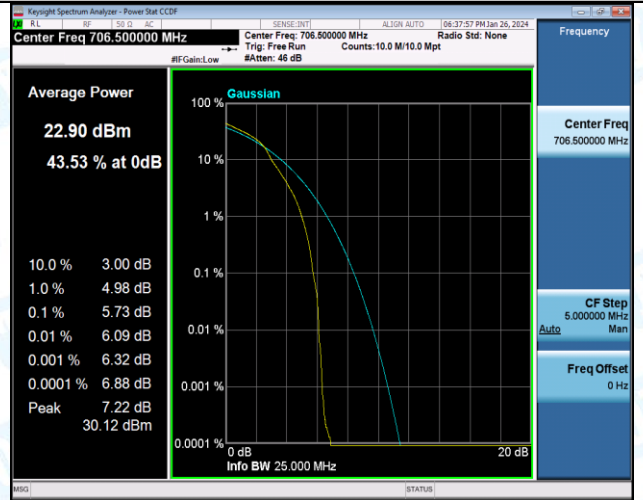
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	5.07	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.73	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.81	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.55	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	5.50	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	6.19	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.82	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.56	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	5.11	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.81	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.60	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.39	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	5.03	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.92	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.74	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.52	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	5.05	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.91	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.68	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.53	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	5.21	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	6.46	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.64	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.49	13	PASS

Test Graphs

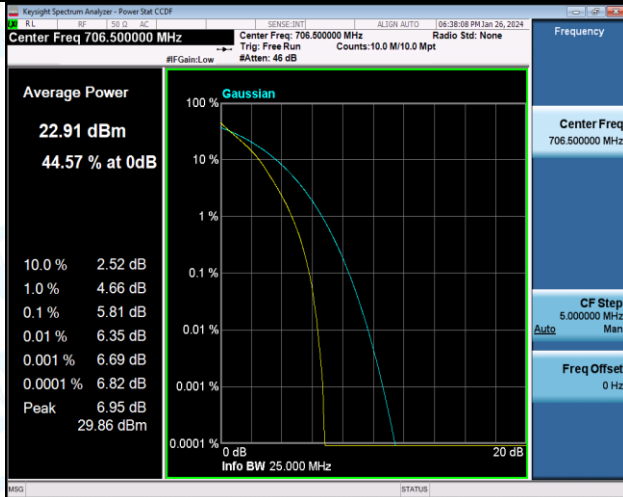
Band17-5MHz-QPSK-23755-1RB#0-PASS



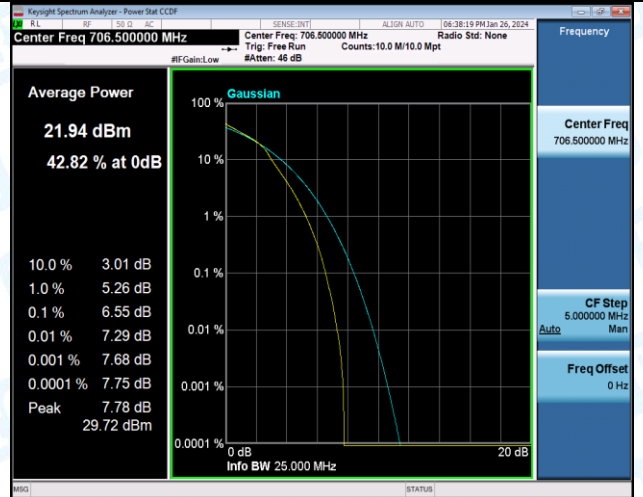
Band17-5MHz-16QAM-23755-1RB#0-PASS



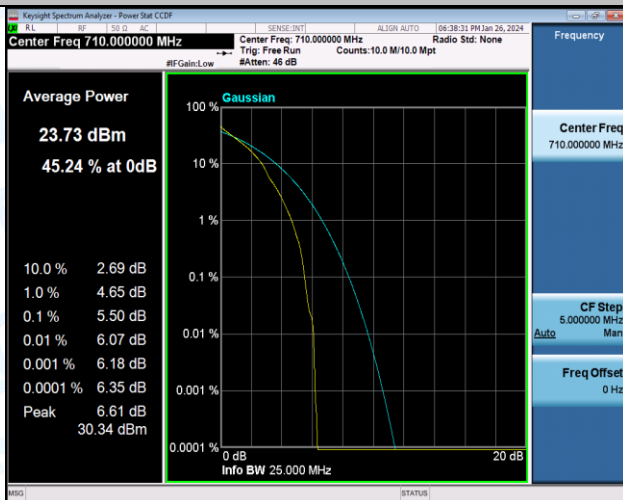
Band17-5MHz-QPSK-23755-25RB#0-PASS



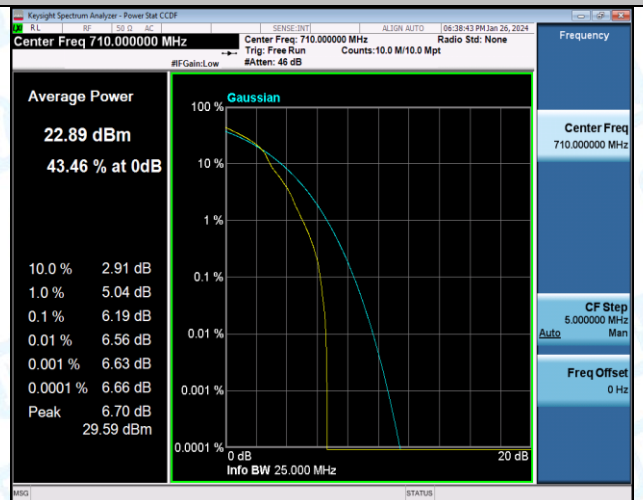
Band17-5MHz-16QAM-23755-25RB#0-PASS



Band17-5MHz-QPSK-23790-1RB#0-PASS



Band17-5MHz-16QAM-23790-1RB#0-PASS

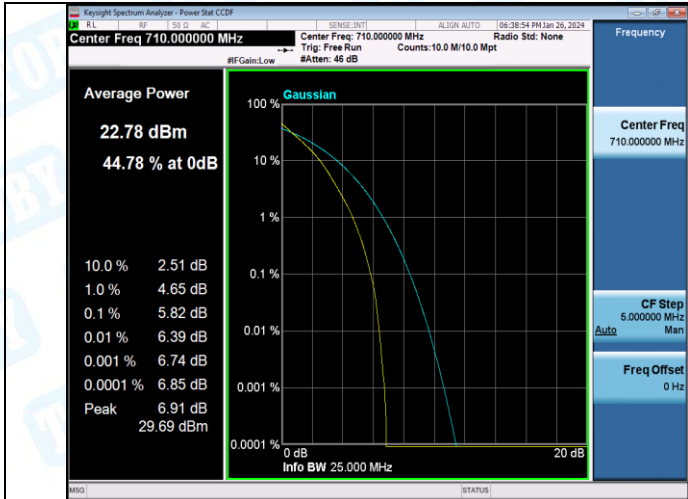


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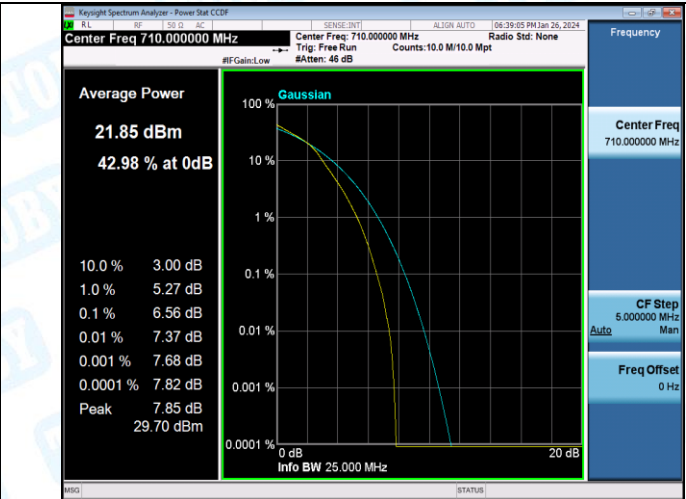


Band17-5MHz-16QAM-23790-25RB#0-PASS





Band17-5MHz-QPSK-23825-1RB#0-PASS



Band17-5MHz-16QAM-23825-1RB#0-PASS



Band17-5MHz-QPSK-23825-25RB#0-PASS



Band17-5MHz-16QAM-23825-25RB#0-PASS

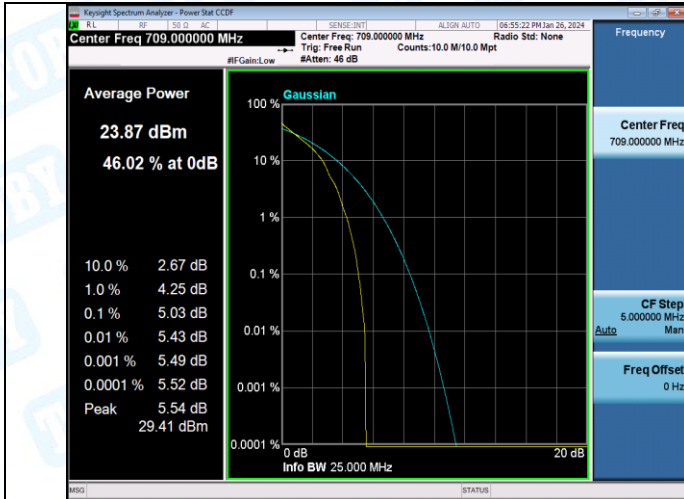


Band17-10MHz-QPSK-23780-1RB#0-PASS

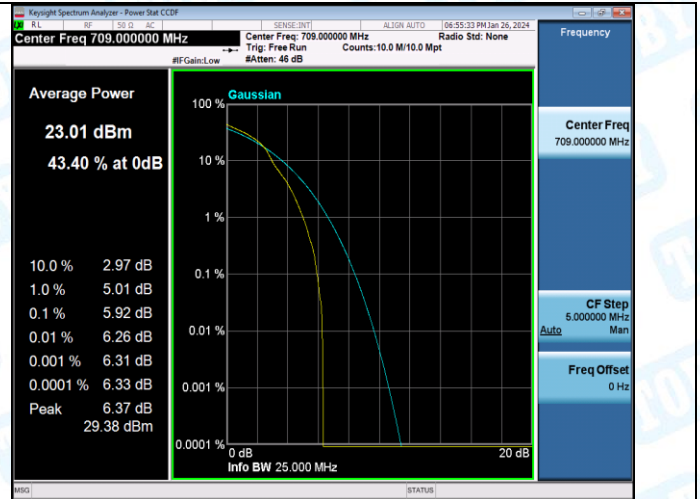


Band17-10MHz-16QAM-23780-1RB#0-PASS





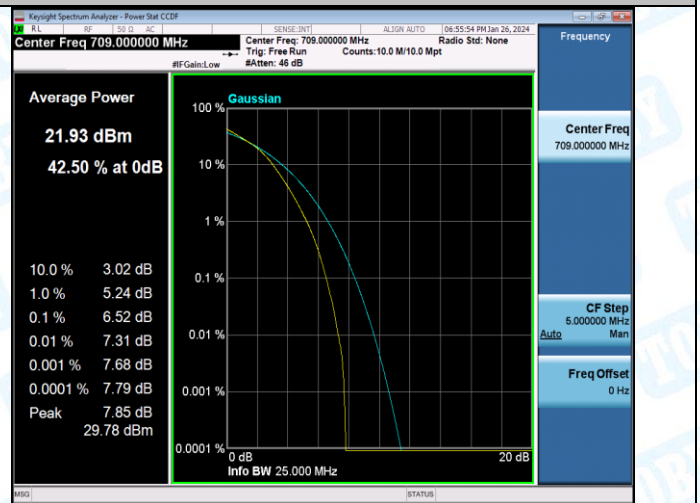
Band17-10MHz-QPSK-23780-50RB#0-PASS



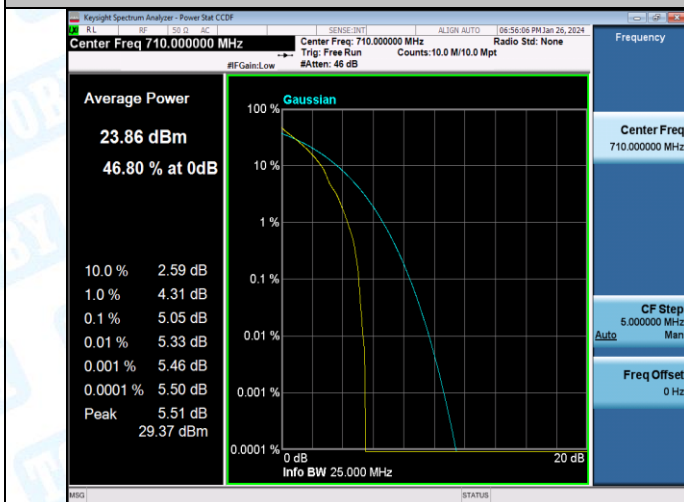
Band17-10MHz-16QAM-23780-50RB#0-PASS



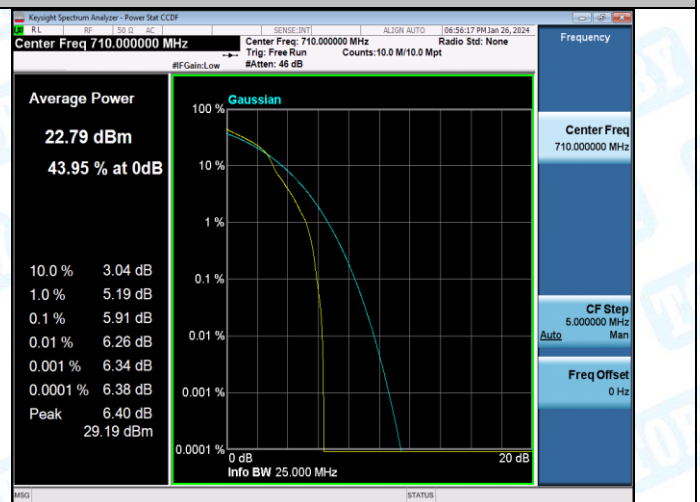
Band17-10MHz-QPSK-23790-1RB#0-PASS



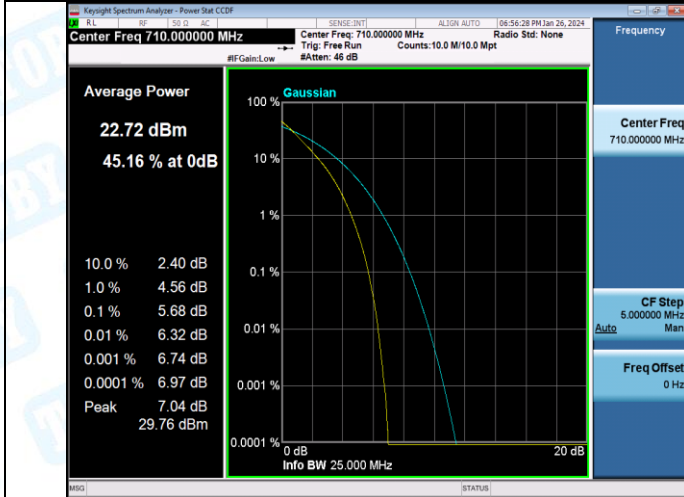
Band17-10MHz-16QAM-23790-1RB#0-PASS



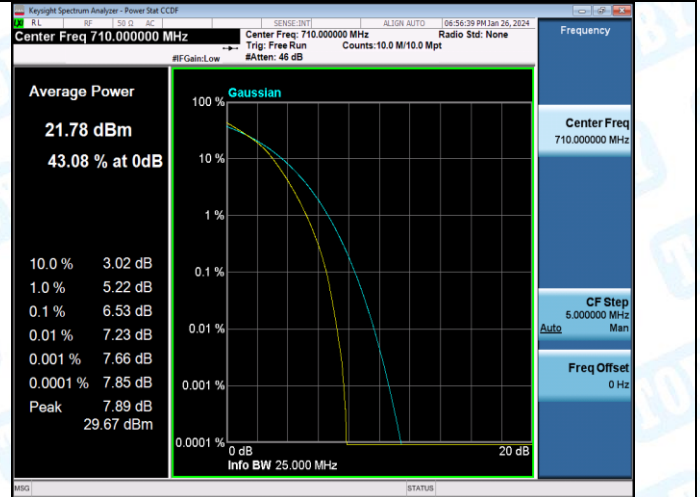
Band17-10MHz-QPSK-23790-50RB#0-PASS



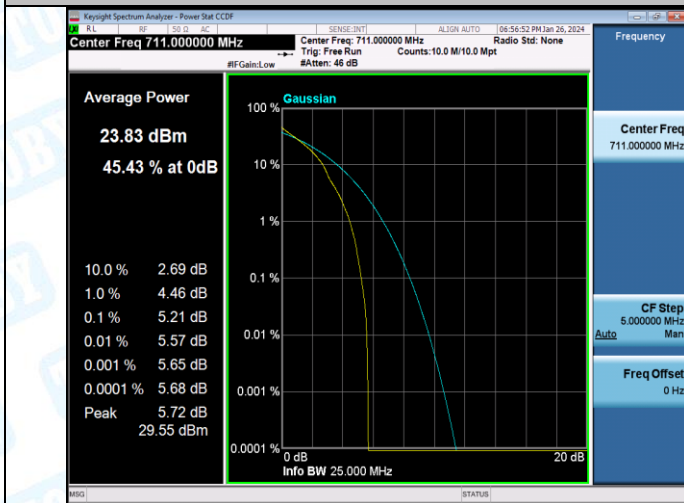
Band17-10MHz-16QAM-23790-50RB#0-PASS



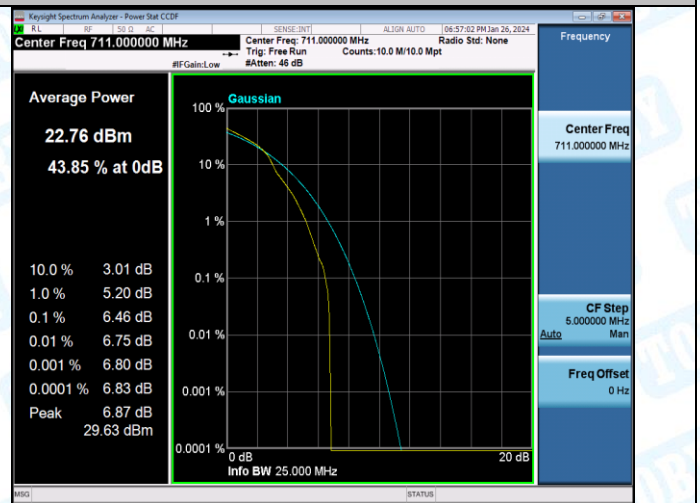
Band17-10MHz-QPSK-23800-1RB#0-PASS



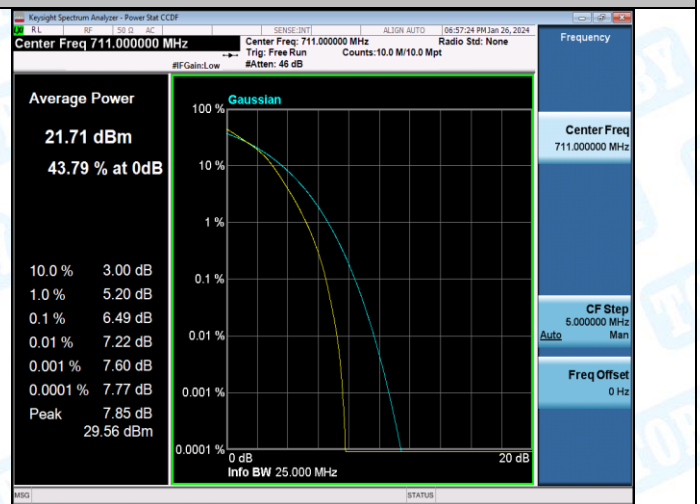
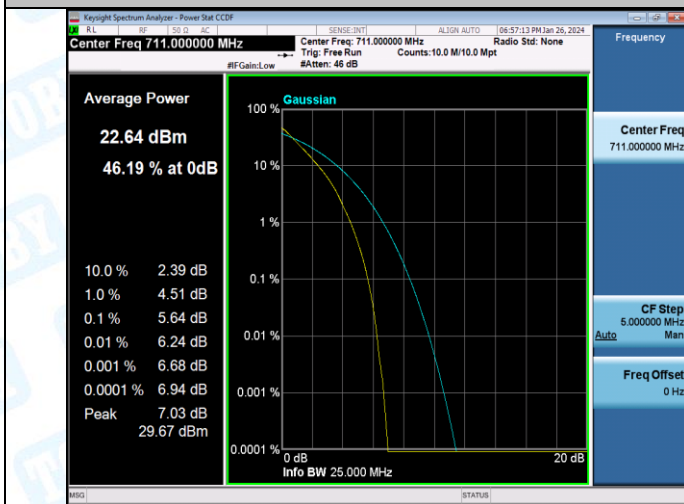
Band17-10MHz-16QAM-23800-1RB#0-PASS



Band17-10MHz-QPSK-23800-50RB#0-PASS



Band17-10MHz-16QAM-23800-50RB#0-PASS

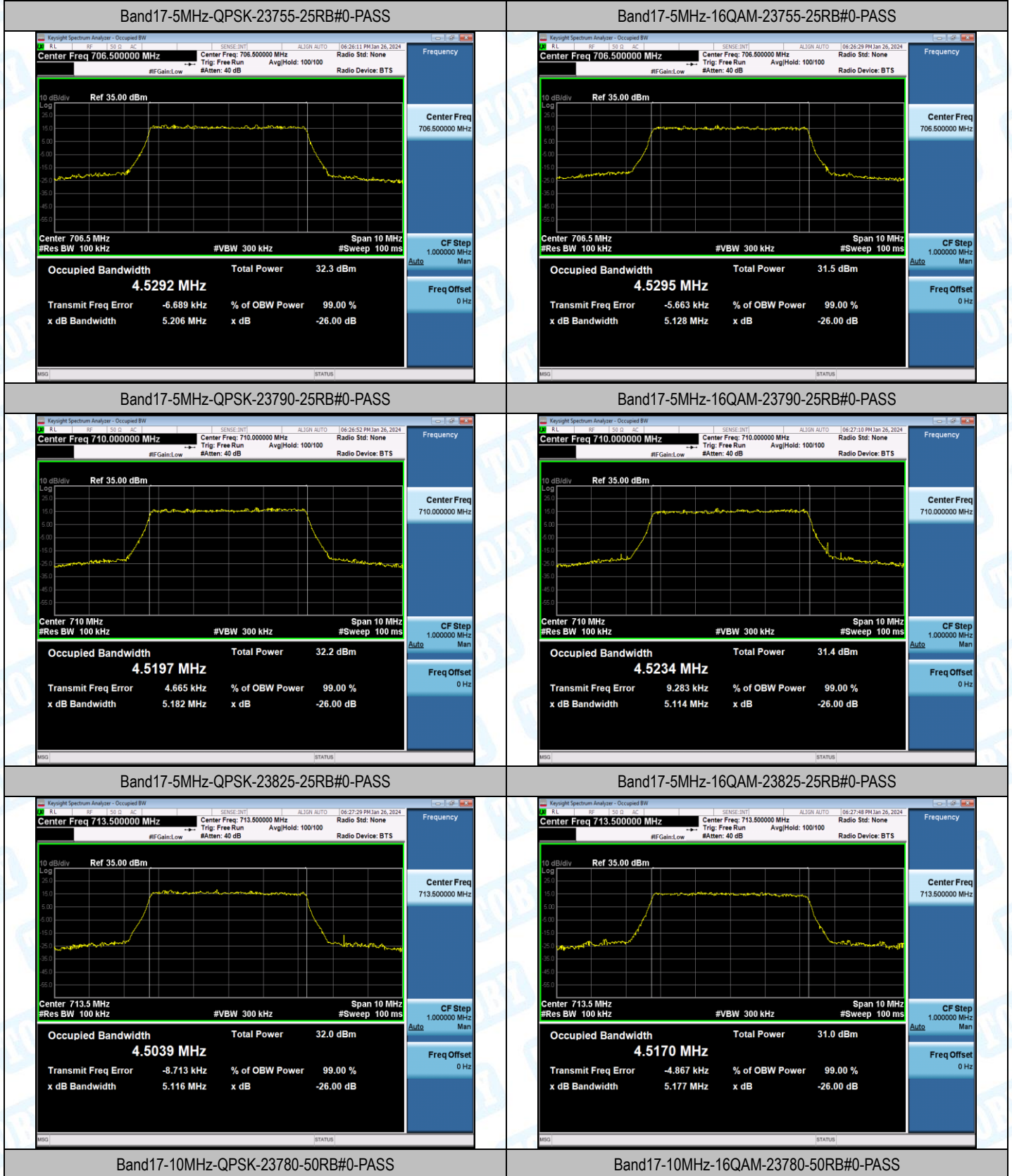


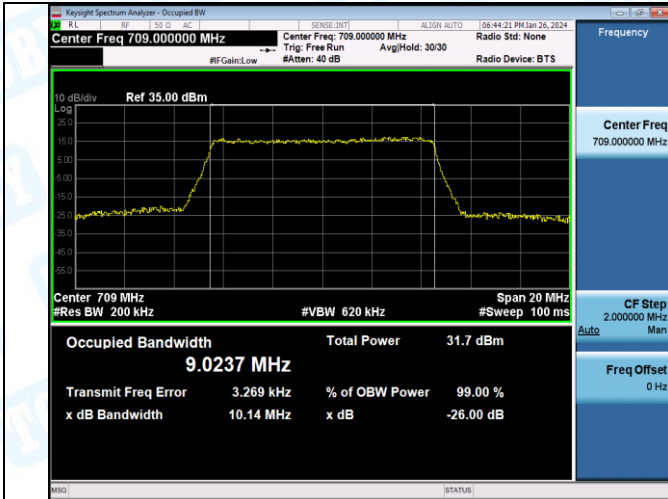
### 3. 26dB Bandwidth and Occupied Bandwidth

#### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5292	5.206	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5295	5.128	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5197	5.182	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5234	5.114	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5039	5.116	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5170	5.177	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.0237	10.14	PASS
Band17	10MHz	16QAM	23780	50RB#0	9.0143	10.05	PASS
Band17	10MHz	QPSK	23790	50RB#0	9.0040	10.13	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9916	10.06	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9717	10.06	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9738	10.04	PASS

Test Graphs

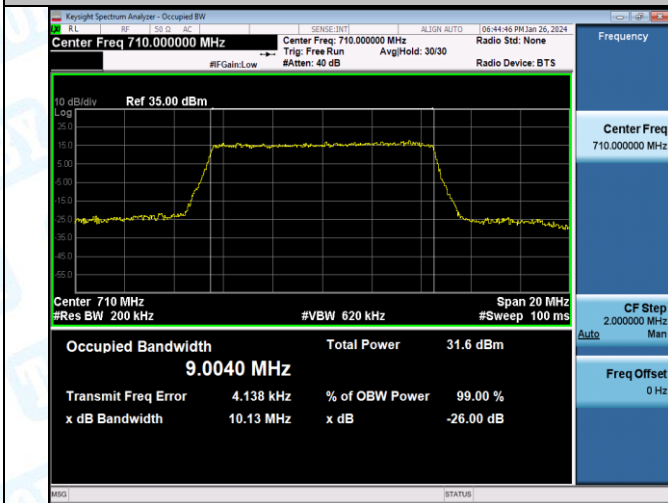




Band17-10MHz-QPSK-23790-50RB#0-PASS



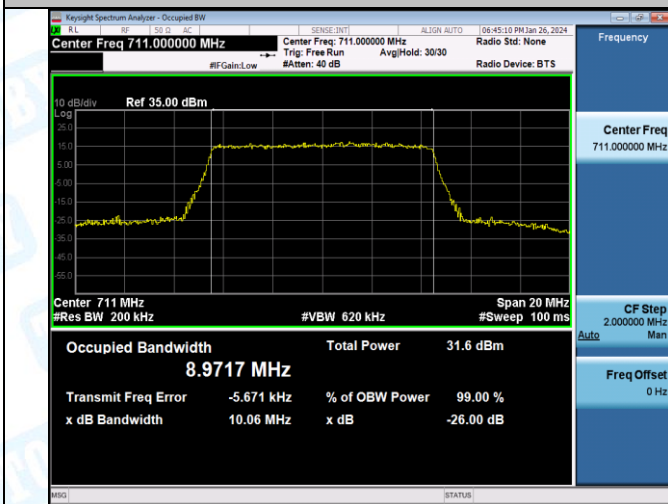
Band17-10MHz-16QAM-23790-50RB#0-PASS



Band17-10MHz-QPSK-23800-50RB#0-PASS



Band17-10MHz-16QAM-23800-50RB#0-PASS



## 4. Band Edge

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Level_dBm	Margin	Verdict
Band17	5MHz	QPSK	23755	1RB#0	-19.69	1.49	PASS
Band17	5MHz	16QAM	23755	1RB#0	-20.15	1.95	PASS
Band17	5MHz	QPSK	23755	25RB#0	-29.33	11.13	PASS
Band17	5MHz	16QAM	23755	25RB#0	-29.83	11.63	PASS
Band17	5MHz	QPSK	23825	1RB#0	-50.46	32.26	PASS
Band17	5MHz	16QAM	23825	1RB#0	-50.48	32.28	PASS
Band17	5MHz	QPSK	23825	25RB#0	-32.13	13.93	PASS
Band17	5MHz	16QAM	23825	25RB#0	-31.71	13.51	PASS
Band17	10MHz	QPSK	23780	1RB#0	-24.46	6.26	PASS
Band17	10MHz	16QAM	23780	1RB#0	-24.68	6.48	PASS
Band17	10MHz	QPSK	23780	50RB#0	-35.90	17.70	PASS
Band17	10MHz	16QAM	23780	50RB#0	-36.23	18.03	PASS
Band17	10MHz	QPSK	23800	1RB#0	-51.75	33.55	PASS
Band17	10MHz	16QAM	23800	1RB#0	-52.27	34.07	PASS
Band17	10MHz	QPSK	23800	50RB#0	-38.07	19.87	PASS
Band17	10MHz	16QAM	23800	50RB#0	-37.57	19.37	PASS

Test Graphs

