

LTE Test Data

General Description of EUT	
Product Name:	Smart POS Payment Terminal
Test Model:	CM30
Sample ID:	202311-0170-7-2#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 24V
Test Engineer:	Yan zhen ming
Note: For a more detailed features description, please refer to the report TBR-C-202311-0170-86 . 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	21.83	PASS
Band17	5MHz	16QAM	23755	1RB#0	20.78	PASS
Band17	5MHz	QPSK	23755	1RB#12	21.99	PASS
Band17	5MHz	16QAM	23755	1RB#12	20.88	PASS
Band17	5MHz	QPSK	23755	1RB#24	21.91	PASS
Band17	5MHz	16QAM	23755	1RB#24	20.84	PASS
Band17	5MHz	QPSK	23755	12RB#0	20.99	PASS
Band17	5MHz	16QAM	23755	12RB#0	19.95	PASS
Band17	5MHz	QPSK	23755	12RB#6	20.90	PASS
Band17	5MHz	16QAM	23755	12RB#6	19.94	PASS
Band17	5MHz	QPSK	23755	12RB#13	20.94	PASS
Band17	5MHz	16QAM	23755	12RB#13	19.97	PASS
Band17	5MHz	QPSK	23755	25RB#0	20.94	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.03	PASS
Band17	5MHz	QPSK	23790	1RB#0	21.84	PASS
Band17	5MHz	16QAM	23790	1RB#0	20.96	PASS
Band17	5MHz	QPSK	23790	1RB#12	21.90	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.01	PASS
Band17	5MHz	QPSK	23790	1RB#24	21.75	PASS
Band17	5MHz	16QAM	23790	1RB#24	20.86	PASS
Band17	5MHz	QPSK	23790	12RB#0	20.79	PASS
Band17	5MHz	16QAM	23790	12RB#0	19.91	PASS
Band17	5MHz	QPSK	23790	12RB#6	20.85	PASS
Band17	5MHz	16QAM	23790	12RB#6	19.93	PASS
Band17	5MHz	QPSK	23790	12RB#13	20.99	PASS
Band17	5MHz	16QAM	23790	12RB#13	20.09	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.01	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.05	PASS
Band17	5MHz	QPSK	23825	1RB#0	21.85	PASS
Band17	5MHz	16QAM	23825	1RB#0	20.80	PASS
Band17	5MHz	QPSK	23825	1RB#12	21.89	PASS
Band17	5MHz	16QAM	23825	1RB#12	20.84	PASS
Band17	5MHz	QPSK	23825	1RB#24	21.83	PASS
Band17	5MHz	16QAM	23825	1RB#24	20.75	PASS
Band17	5MHz	QPSK	23825	12RB#0	20.86	PASS
Band17	5MHz	16QAM	23825	12RB#0	19.93	PASS
Band17	5MHz	QPSK	23825	12RB#6	20.83	PASS
Band17	5MHz	16QAM	23825	12RB#6	19.96	PASS
Band17	5MHz	QPSK	23825	12RB#13	20.77	PASS

Band17	5MHz	16QAM	23825	12RB#13	19.83	PASS
Band17	5MHz	QPSK	23825	25RB#0	20.89	PASS
Band17	5MHz	16QAM	23825	25RB#0	19.90	PASS
Band17	10MHz	QPSK	23780	1RB#0	21.88	PASS
Band17	10MHz	16QAM	23780	1RB#0	20.92	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.06	PASS
Band17	10MHz	16QAM	23780	1RB#24	21.12	PASS
Band17	10MHz	QPSK	23780	1RB#49	21.89	PASS
Band17	10MHz	16QAM	23780	1RB#49	20.86	PASS
Band17	10MHz	QPSK	23780	25RB#0	21.03	PASS
Band17	10MHz	16QAM	23780	25RB#0	20.10	PASS
Band17	10MHz	QPSK	23780	25RB#12	20.99	PASS
Band17	10MHz	16QAM	23780	25RB#12	20.07	PASS
Band17	10MHz	QPSK	23780	25RB#25	21.24	PASS
Band17	10MHz	16QAM	23780	25RB#25	20.21	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.09	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.15	PASS
Band17	10MHz	QPSK	23790	1RB#0	21.94	PASS
Band17	10MHz	16QAM	23790	1RB#0	20.82	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.14	PASS
Band17	10MHz	16QAM	23790	1RB#24	20.99	PASS
Band17	10MHz	QPSK	23790	1RB#49	21.90	PASS
Band17	10MHz	16QAM	23790	1RB#49	20.78	PASS
Band17	10MHz	QPSK	23790	25RB#0	20.98	PASS
Band17	10MHz	16QAM	23790	25RB#0	20.02	PASS
Band17	10MHz	QPSK	23790	25RB#12	20.95	PASS
Band17	10MHz	16QAM	23790	25RB#12	20.07	PASS
Band17	10MHz	QPSK	23790	25RB#25	20.99	PASS
Band17	10MHz	16QAM	23790	25RB#25	20.10	PASS
Band17	10MHz	QPSK	23790	50RB#0	20.99	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.09	PASS
Band17	10MHz	QPSK	23800	1RB#0	21.95	PASS
Band17	10MHz	16QAM	23800	1RB#0	20.72	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.10	PASS
Band17	10MHz	16QAM	23800	1RB#24	20.91	PASS
Band17	10MHz	QPSK	23800	1RB#49	21.97	PASS
Band17	10MHz	16QAM	23800	1RB#49	20.73	PASS
Band17	10MHz	QPSK	23800	25RB#0	20.91	PASS
Band17	10MHz	16QAM	23800	25RB#0	20.03	PASS
Band17	10MHz	QPSK	23800	25RB#12	20.88	PASS
Band17	10MHz	16QAM	23800	25RB#12	20.03	PASS
Band17	10MHz	QPSK	23800	25RB#25	20.91	PASS
Band17	10MHz	16QAM	23800	25RB#25	20.03	PASS
Band17	10MHz	QPSK	23800	50RB#0	20.88	PASS

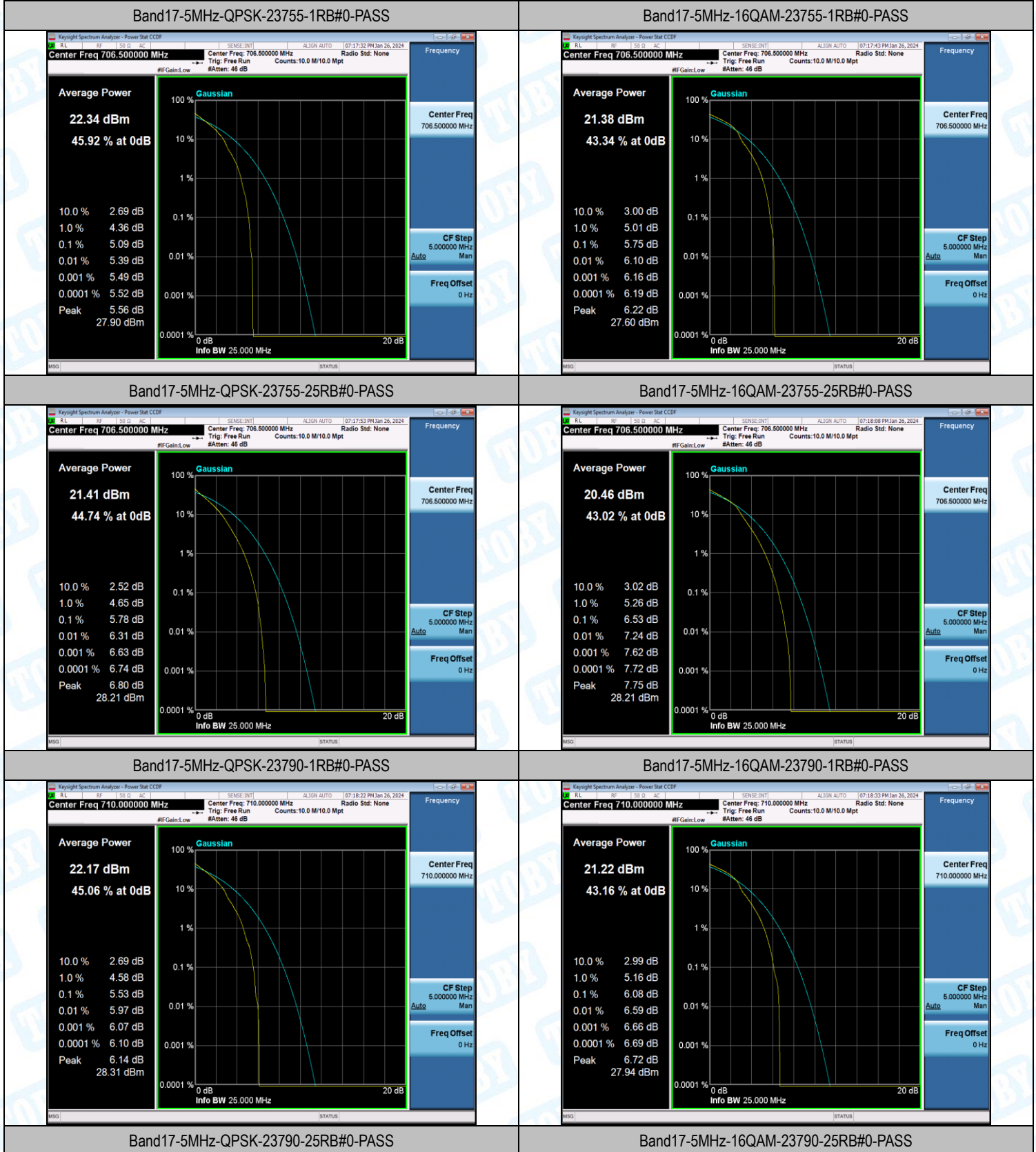
Band17	10MHz	16QAM	23800	50RB#0	19.99	PASS
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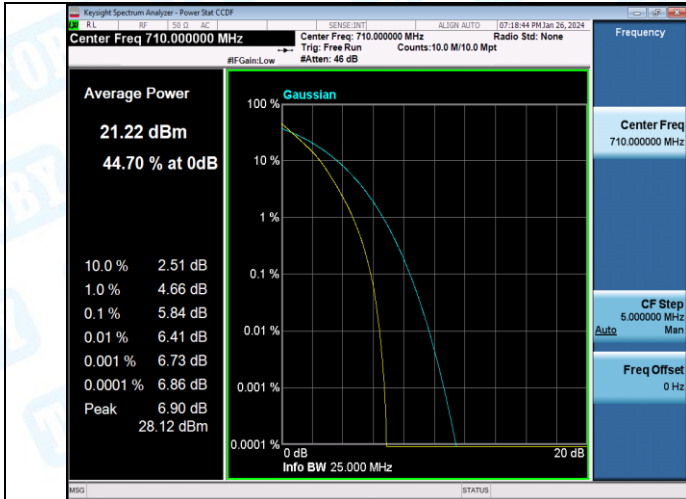
2. Peak-to-Average Ratio(CCDF)

Test Result

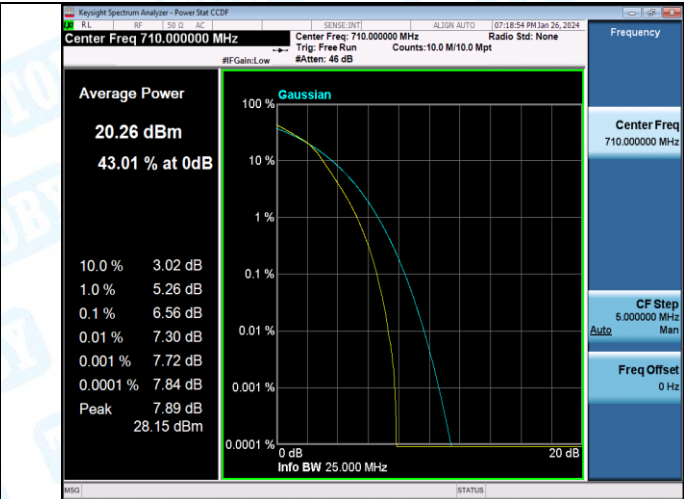
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	5.09	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.75	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.78	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.53	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	5.53	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	6.08	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.84	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.56	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	5.27	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.99	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.60	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.37	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	5.03	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.94	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	5.11	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.95	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.71	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.51	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	5.24	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	6.05	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.63	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.49	13	PASS

Test Graphs

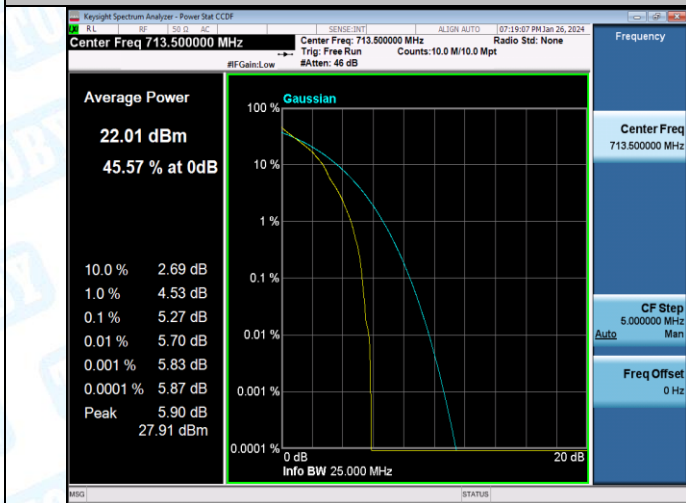




Band17-5MHz-QPSK-23825-1RB#0-PASS



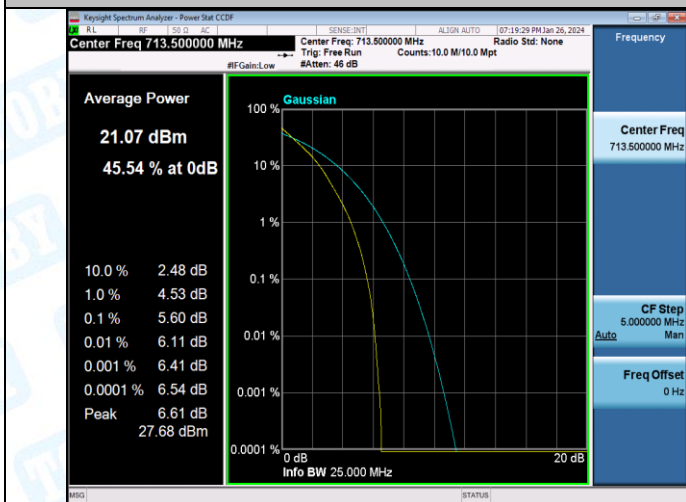
Band17-5MHz-16QAM-23825-1RB#0-PASS



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



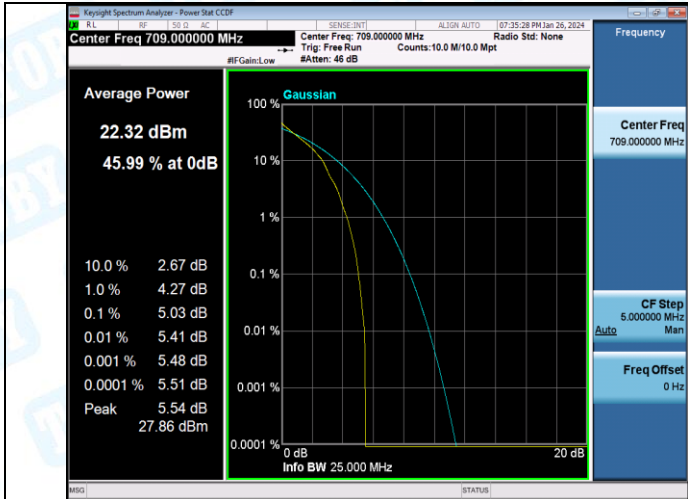
Band17-5MHz-16QAM-23825-25RB#0-PASS



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



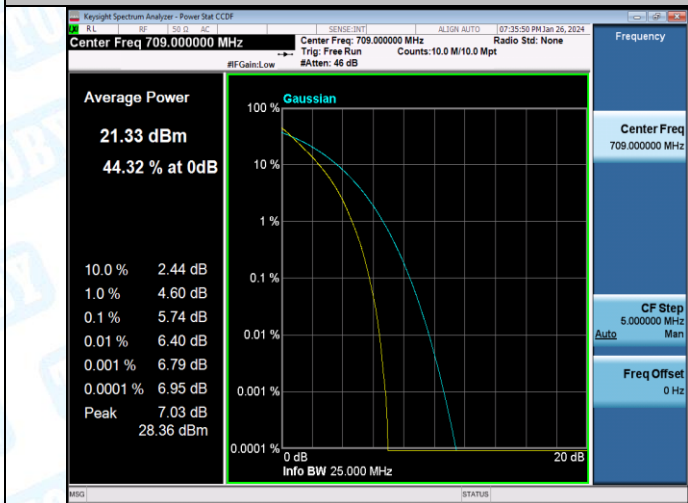
Band17-10MHz-16QAM-23780-1RB#0-PASS



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



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



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



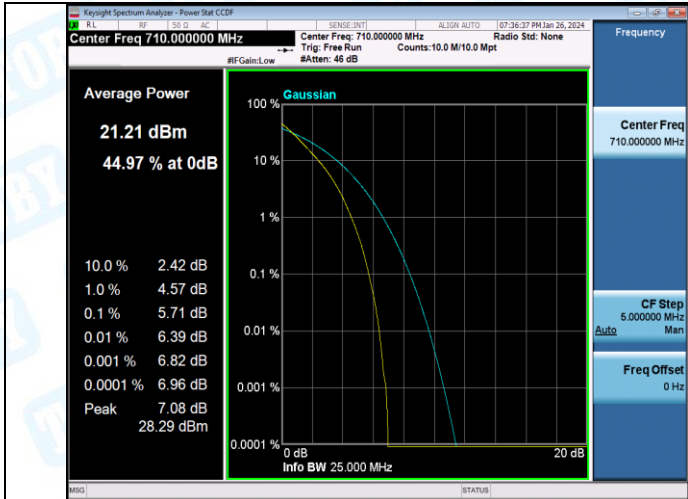
Band17-10MHz-16QAM-23790-1RB#0-PASS



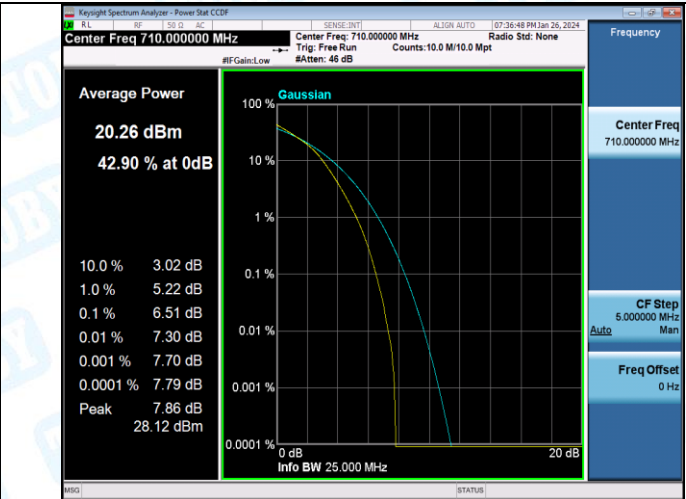
Band17-10MHz-QPSK-23790-50RB#0-PASS



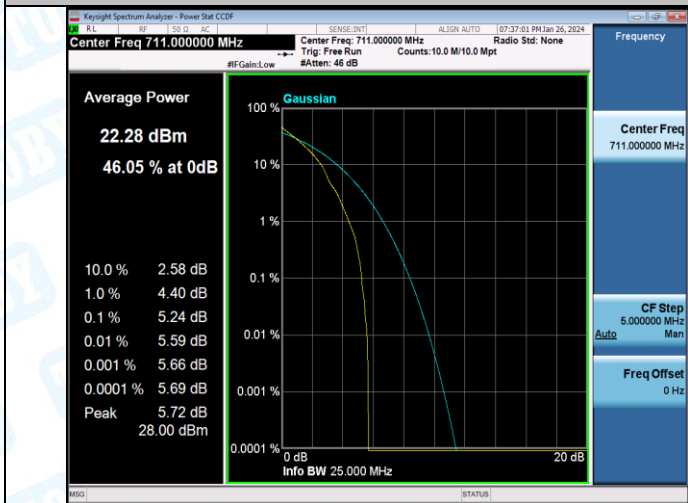
Band17-10MHz-16QAM-23790-50RB#0-PASS



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



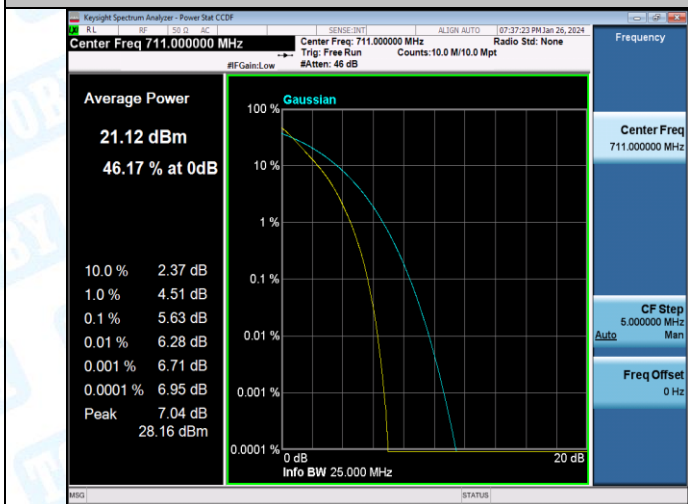
Band17-10MHz-16QAM-23800-1RB#0-PASS



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



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

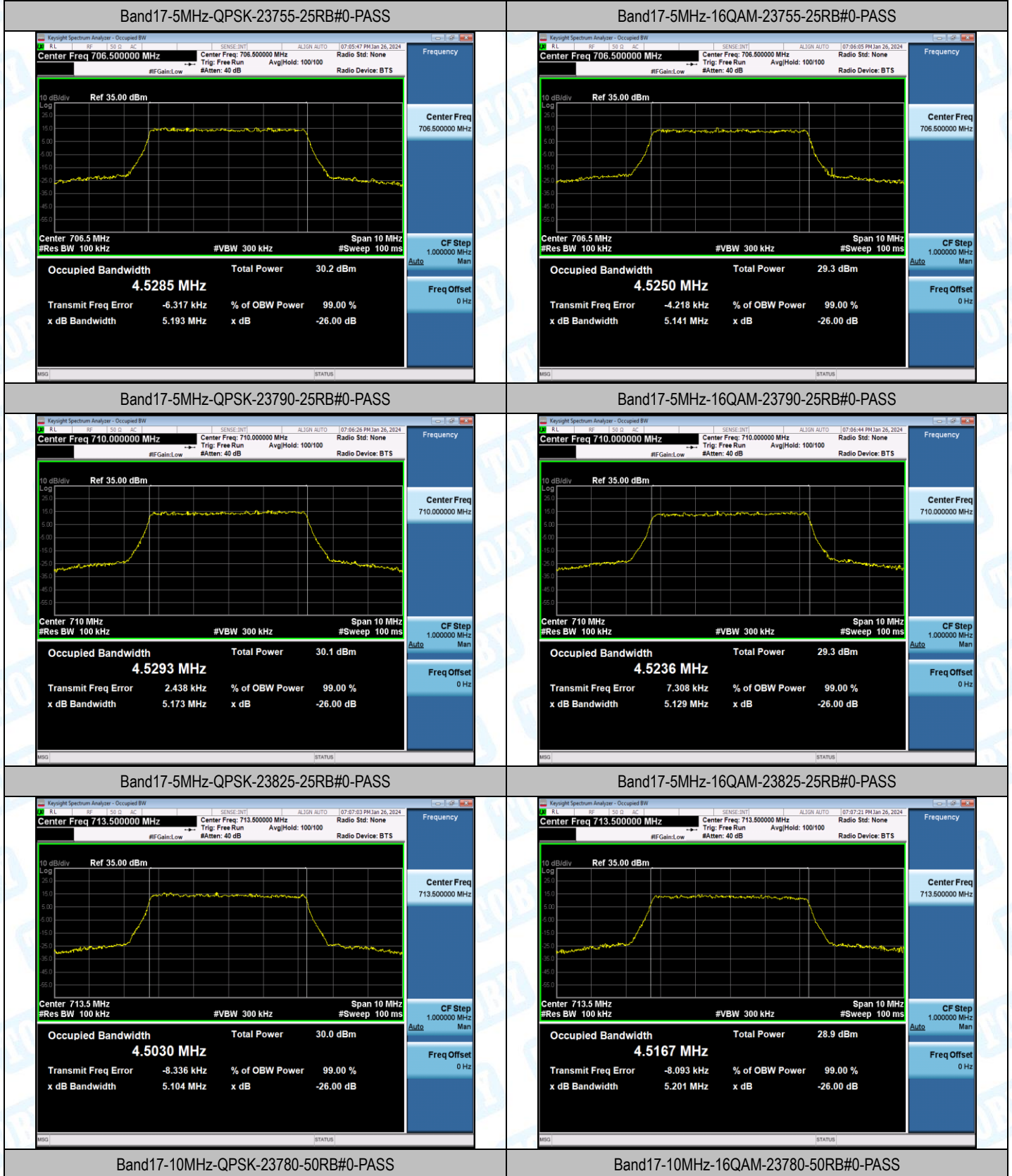


3. 26dB Bandwidth and Occupied Bandwidth

Test Result

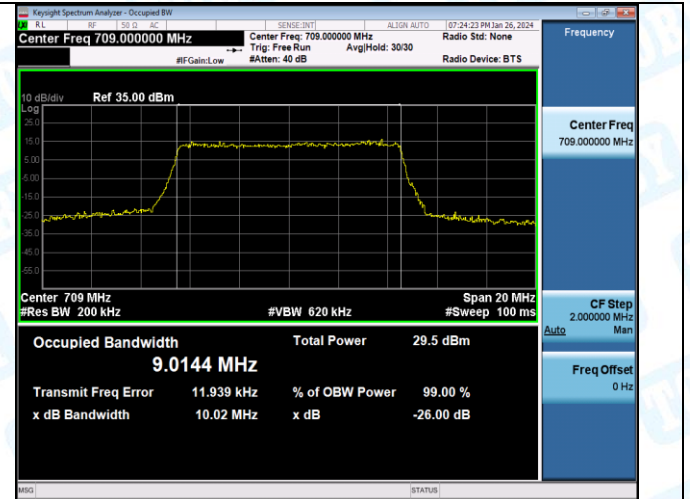
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5285	5.193	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5250	5.141	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5293	5.173	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5236	5.129	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5030	5.104	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5167	5.201	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.0256	10.16	PASS
Band17	10MHz	16QAM	23780	50RB#0	9.0144	10.02	PASS
Band17	10MHz	QPSK	23790	50RB#0	9.0040	10.09	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9890	9.994	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9847	9.997	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9853	10.04	PASS

Test Graphs

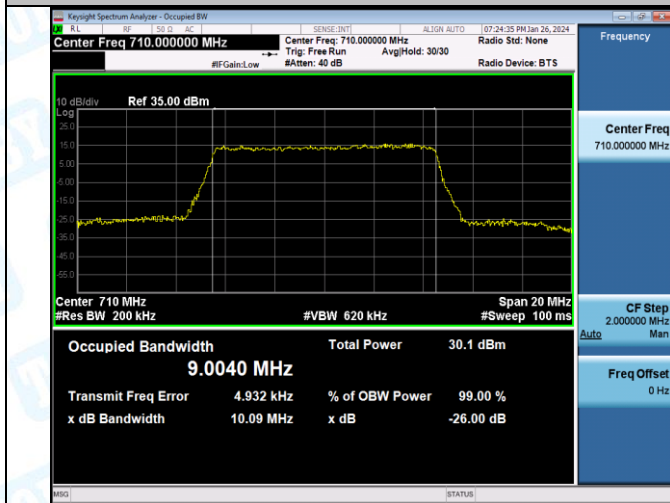




Band17-10MHz-QPSK-23790-50RB#0-PASS



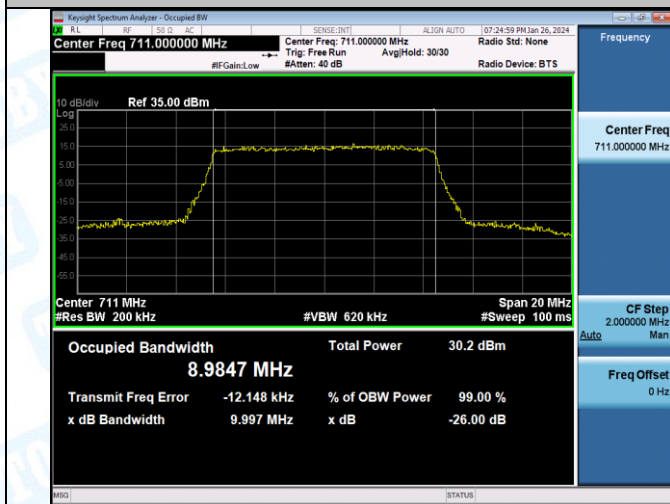
Band17-10MHz-16QAM-23790-50RB#0-PASS



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



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



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	-21.84	3.64	PASS
Band17	5MHz	16QAM	23755	1RB#0	-22.42	4.22	PASS
Band17	5MHz	QPSK	23755	25RB#0	-31.44	13.24	PASS
Band17	5MHz	16QAM	23755	25RB#0	-31.70	13.50	PASS
Band17	5MHz	QPSK	23825	1RB#0	-52.23	34.03	PASS
Band17	5MHz	16QAM	23825	1RB#0	-52.59	34.39	PASS
Band17	5MHz	QPSK	23825	25RB#0	-33.76	15.56	PASS
Band17	5MHz	16QAM	23825	25RB#0	-33.73	15.53	PASS
Band17	10MHz	QPSK	23780	1RB#0	-25.70	7.50	PASS
Band17	10MHz	16QAM	23780	1RB#0	-26.50	8.30	PASS
Band17	10MHz	QPSK	23780	50RB#0	-37.49	19.29	PASS
Band17	10MHz	16QAM	23780	50RB#0	-37.84	19.64	PASS
Band17	10MHz	QPSK	23800	1RB#0	-53.33	35.13	PASS
Band17	10MHz	16QAM	23800	1RB#0	-53.43	35.23	PASS
Band17	10MHz	QPSK	23800	50RB#0	-39.18	20.98	PASS
Band17	10MHz	16QAM	23800	50RB#0	-38.98	20.78	PASS