



Appendix G: Test Data for E-UTRA Band 7

Product Name: 4G Phone

Test Model: mindphone 1

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan



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G.1 Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	19.20	PASS
Band7	5MHz	QPSK	20775	1RB#12	19.22	PASS
Band7	5MHz	QPSK	20775	1RB#24	19.05	PASS
Band7	5MHz	QPSK	20775	12RB#0	18.18	PASS
Band7	5MHz	QPSK	20775	12RB#6	18.22	PASS
Band7	5MHz	QPSK	20775	12RB#13	18.20	PASS
Band7	5MHz	QPSK	20775	25RB#0	18.15	PASS
Band7	5MHz	QPSK	21100	1RB#0	19.77	PASS
Band7	5MHz	QPSK	21100	1RB#12	19.90	PASS
Band7	5MHz	QPSK	21100	1RB#24	19.92	PASS
Band7	5MHz	QPSK	21100	12RB#0	19.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	18.98	PASS
Band7	5MHz	QPSK	21100	12RB#13	19.08	PASS
Band7	5MHz	QPSK	21100	25RB#0	19.04	PASS
Band7	5MHz	QPSK	21425	1RB#0	19.96	PASS
Band7	5MHz	QPSK	21425	1RB#12	20.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	20.12	PASS
Band7	5MHz	QPSK	21425	12RB#0	19.08	PASS
Band7	5MHz	QPSK	21425	12RB#6	19.21	PASS
Band7	5MHz	QPSK	21425	12RB#13	19.14	PASS
Band7	5MHz	QPSK	21425	25RB#0	19.05	PASS
Band7	5MHz	16QAM	20775	1RB#0	17.70	PASS
Band7	5MHz	16QAM	20775	1RB#12	17.71	PASS
Band7	5MHz	16QAM	20775	1RB#24	17.50	PASS
Band7	5MHz	16QAM	20775	12RB#0	17.33	PASS
Band7	5MHz	16QAM	20775	12RB#6	17.33	PASS
Band7	5MHz	16QAM	20775	12RB#13	17.71	PASS
Band7	5MHz	16QAM	20775	25RB#0	17.80	PASS





Band7	5MHz	16QAM	21100	1RB#0	18.31	PASS
Band7	5MHz	16QAM	21100	1RB#12	18.41	PASS
Band7	5MHz	16QAM	21100	1RB#24	18.44	PASS
Band7	5MHz	16QAM	21100	12RB#0	18.55	PASS
Band7	5MHz	16QAM	21100	12RB#6	18.54	PASS
Band7	5MHz	16QAM	21100	12RB#13	18.18	PASS
Band7	5MHz	16QAM	21100	25RB#0	18.18	PASS
Band7	5MHz	16QAM	21425	1RB#0	19.28	PASS
Band7	5MHz	16QAM	21425	1RB#12	18.99	PASS
Band7	5MHz	16QAM	21425	1RB#24	19.01	PASS
Band7	5MHz	16QAM	21425	12RB#0	18.20	PASS
Band7	5MHz	16QAM	21425	12RB#6	18.19	PASS
Band7	5MHz	16QAM	21425	12RB#13	18.14	PASS
Band7	5MHz	16QAM	21425	25RB#0	18.06	PASS
Band7	10MHz	QPSK	20800	1RB#0	19.13	PASS
Band7	10MHz	QPSK	20800	1RB#24	19.06	PASS
Band7	10MHz	QPSK	20800	1RB#49	19.14	PASS
Band7	10MHz	QPSK	20800	25RB#0	18.28	PASS
Band7	10MHz	QPSK	20800	25RB#12	18.31	PASS
Band7	10MHz	QPSK	20800	25RB#25	18.06	PASS
Band7	10MHz	QPSK	20800	50RB#0	18.26	PASS
Band7	10MHz	QPSK	21100	1RB#0	19.89	PASS
Band7	10MHz	QPSK	21100	1RB#24	19.90	PASS
Band7	10MHz	QPSK	21100	1RB#49	19.93	PASS
Band7	10MHz	QPSK	21100	25RB#0	18.93	PASS
Band7	10MHz	QPSK	21100	25RB#12	18.91	PASS
Band7	10MHz	QPSK	21100	25RB#25	18.94	PASS
Band7	10MHz	QPSK	21100	50RB#0	19.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	19.88	PASS
Band7	10MHz	QPSK	21400	1RB#24	19.91	PASS
Band7	10MHz	QPSK	21400	1RB#49	19.98	PASS
Band7	10MHz	QPSK	21400	25RB#0	19.08	PASS
Band7	10MHz	QPSK	21400	25RB#12	19.07	PASS
Band7	10MHz	QPSK	21400	25RB#25	19.05	PASS
Band7	10MHz	QPSK	21400	50RB#0	19.03	PASS



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Band7	10MHz	16QAM	20800	1RB#0	18.07	PASS
Band7	10MHz	16QAM	20800	1RB#24	17.99	PASS
Band7	10MHz	16QAM	20800	1RB#49	18.02	PASS
Band7	10MHz	16QAM	20800	25RB#0	17.68	PASS
Band7	10MHz	16QAM	20800	25RB#12	17.70	PASS
Band7	10MHz	16QAM	20800	25RB#25	17.24	PASS
Band7	10MHz	16QAM	20800	50RB#0	17.32	PASS
Band7	10MHz	16QAM	21100	1RB#0	18.91	PASS
Band7	10MHz	16QAM	21100	1RB#24	19.02	PASS
Band7	10MHz	16QAM	21100	1RB#49	18.94	PASS
Band7	10MHz	16QAM	21100	25RB#0	18.46	PASS
Band7	10MHz	16QAM	21100	25RB#12	18.45	PASS
Band7	10MHz	16QAM	21100	25RB#25	18.02	PASS
Band7	10MHz	16QAM	21100	50RB#0	18.10	PASS
Band7	10MHz	16QAM	21400	1RB#0	18.89	PASS
Band7	10MHz	16QAM	21400	1RB#24	18.92	PASS
Band7	10MHz	16QAM	21400	1RB#49	18.96	PASS
Band7	10MHz	16QAM	21400	25RB#0	18.24	PASS
Band7	10MHz	16QAM	21400	25RB#12	18.20	PASS
Band7	10MHz	16QAM	21400	25RB#25	18.35	PASS
Band7	10MHz	16QAM	21400	50RB#0	18.12	PASS
Band7	15MHz	QPSK	20825	1RB#0	19.16	PASS
Band7	15MHz	QPSK	20825	1RB#38	19.11	PASS
Band7	15MHz	QPSK	20825	1RB#74	19.19	PASS
Band7	15MHz	QPSK	20825	38RB#0	18.11	PASS
Band7	15MHz	QPSK	20825	38RB#18	18.06	PASS
Band7	15MHz	QPSK	20825	38RB#37	18.07	PASS
Band7	15MHz	QPSK	20825	75RB#0	18.10	PASS
Band7	15MHz	QPSK	21100	1RB#0	19.66	PASS
Band7	15MHz	QPSK	21100	1RB#38	19.90	PASS
Band7	15MHz	QPSK	21100	1RB#74	19.84	PASS
Band7	15MHz	QPSK	21100	38RB#0	19.06	PASS
Band7	15MHz	QPSK	21100	38RB#18	19.02	PASS
Band7	15MHz	QPSK	21100	38RB#37	19.01	PASS
Band7	15MHz	QPSK	21100	75RB#0	19.01	PASS



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Band7	15MHz	QPSK	21375	1RB#0	19.76	PASS
Band7	15MHz	QPSK	21375	1RB#38	19.87	PASS
Band7	15MHz	QPSK	21375	1RB#74	19.82	PASS
Band7	15MHz	QPSK	21375	38RB#0	19.11	PASS
Band7	15MHz	QPSK	21375	38RB#18	19.07	PASS
Band7	15MHz	QPSK	21375	38RB#37	19.06	PASS
Band7	15MHz	QPSK	21375	75RB#0	19.05	PASS
Band7	15MHz	16QAM	20825	1RB#0	18.24	PASS
Band7	15MHz	16QAM	20825	1RB#38	17.94	PASS
Band7	15MHz	16QAM	20825	1RB#74	17.97	PASS
Band7	15MHz	16QAM	20825	38RB#0	18.11	PASS
Band7	15MHz	16QAM	20825	38RB#18	18.07	PASS
Band7	15MHz	16QAM	20825	38RB#37	18.10	PASS
Band7	15MHz	16QAM	20825	75RB#0	17.33	PASS
Band7	15MHz	16QAM	21100	1RB#0	18.96	PASS
Band7	15MHz	16QAM	21100	1RB#38	18.98	PASS
Band7	15MHz	16QAM	21100	1RB#74	18.96	PASS
Band7	15MHz	16QAM	21100	38RB#0	19.03	PASS
Band7	15MHz	16QAM	21100	38RB#18	19.02	PASS
Band7	15MHz	16QAM	21100	38RB#37	19.01	PASS
Band7	15MHz	16QAM	21100	75RB#0	17.98	PASS
Band7	15MHz	16QAM	21375	1RB#0	19.10	PASS
Band7	15MHz	16QAM	21375	1RB#38	19.16	PASS
Band7	15MHz	16QAM	21375	1RB#74	19.24	PASS
Band7	15MHz	16QAM	21375	38RB#0	19.08	PASS
Band7	15MHz	16QAM	21375	38RB#18	19.06	PASS
Band7	15MHz	16QAM	21375	38RB#37	19.05	PASS
Band7	15MHz	16QAM	21375	75RB#0	18.08	PASS
Band7	20MHz	QPSK	20850	1RB#0	19.30	PASS
Band7	20MHz	QPSK	20850	1RB#49	19.17	PASS
Band7	20MHz	QPSK	20850	1RB#99	19.42	PASS
Band7	20MHz	QPSK	20850	50RB#0	18.21	PASS
Band7	20MHz	QPSK	20850	50RB#25	18.18	PASS
Band7	20MHz	QPSK	20850	50RB#50	18.29	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.25	PASS



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Band7	20MHz	QPSK	21100	1RB#0	19.92	PASS
Band7	20MHz	QPSK	21100	1RB#49	20.17	PASS
Band7	20MHz	QPSK	21100	1RB#99	20.15	PASS
Band7	20MHz	QPSK	21100	50RB#0	19.05	PASS
Band7	20MHz	QPSK	21100	50RB#25	19.02	PASS
Band7	20MHz	QPSK	21100	50RB#50	19.09	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.96	PASS
Band7	20MHz	QPSK	21350	1RB#0	20.14	PASS
Band7	20MHz	QPSK	21350	1RB#49	20.20	PASS
Band7	20MHz	QPSK	21350	1RB#99	20.25	PASS
Band7	20MHz	QPSK	21350	50RB#0	18.90	PASS
Band7	20MHz	QPSK	21350	50RB#25	18.95	PASS
Band7	20MHz	QPSK	21350	50RB#50	19.02	PASS
Band7	20MHz	QPSK	21350	100RB#0	18.93	PASS
Band7	20MHz	16QAM	20850	1RB#0	17.85	PASS
Band7	20MHz	16QAM	20850	1RB#49	17.61	PASS
Band7	20MHz	16QAM	20850	1RB#99	17.91	PASS
Band7	20MHz	16QAM	20850	50RB#0	17.37	PASS
Band7	20MHz	16QAM	20850	50RB#25	17.40	PASS
Band7	20MHz	16QAM	20850	50RB#50	17.38	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.69	PASS
Band7	20MHz	16QAM	21100	1RB#0	18.69	PASS
Band7	20MHz	16QAM	21100	1RB#49	18.90	PASS
Band7	20MHz	16QAM	21100	1RB#99	18.88	PASS
Band7	20MHz	16QAM	21100	50RB#0	18.15	PASS
Band7	20MHz	16QAM	21100	50RB#25	18.14	PASS
Band7	20MHz	16QAM	21100	50RB#50	18.72	PASS
Band7	20MHz	16QAM	21100	100RB#0	18.12	PASS
Band7	20MHz	16QAM	21350	1RB#0	19.38	PASS
Band7	20MHz	16QAM	21350	1RB#49	19.39	PASS
Band7	20MHz	16QAM	21350	1RB#99	19.52	PASS
Band7	20MHz	16QAM	21350	50RB#0	18.08	PASS
Band7	20MHz	16QAM	21350	50RB#25	18.07	PASS
Band7	20MHz	16QAM	21350	50RB#50	18.14	PASS
Band7	20MHz	16QAM	21350	100RB#0	18.51	PASS



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G.2 Peak-to-Average Ratio(CCDF)

Test Result

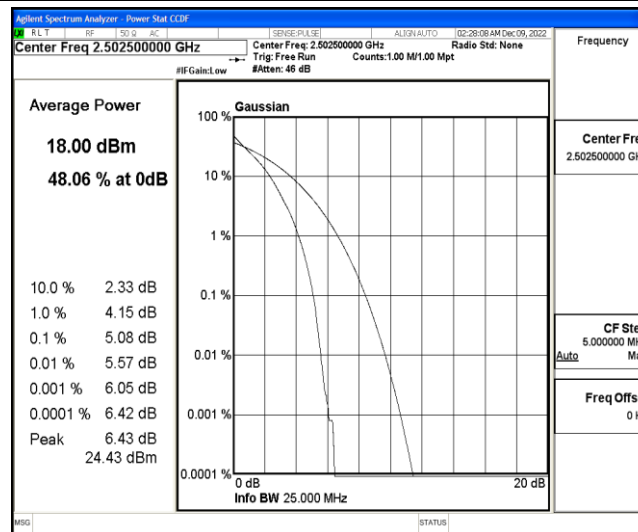
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	5.08	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.01	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.61	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.70	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.70	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.36	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.30	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.04	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	4.84	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	6.07	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	5.76	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	5.61	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.76	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.46	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.43	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.26	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	5.95	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	5.88	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.62	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.32	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.45	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.29	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.06	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.03	13	PASS



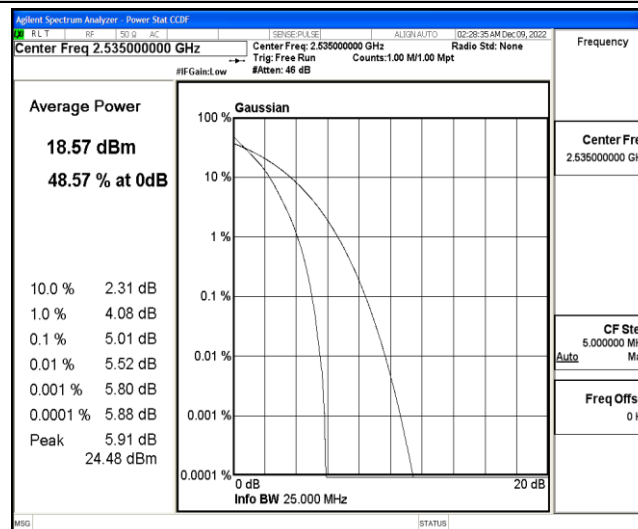


Test Graphs

Band7-5MHz-QPSK-20775-25RB#0



Band7-5MHz-QPSK-21100-25RB#0



Band7-5MHz-QPSK-21425-25RB#0

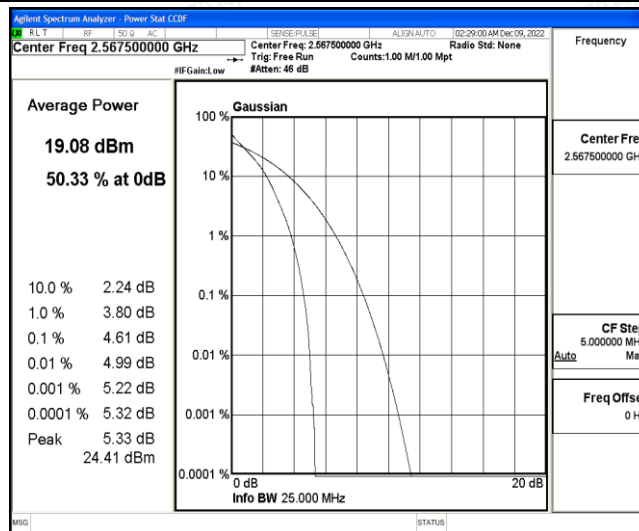


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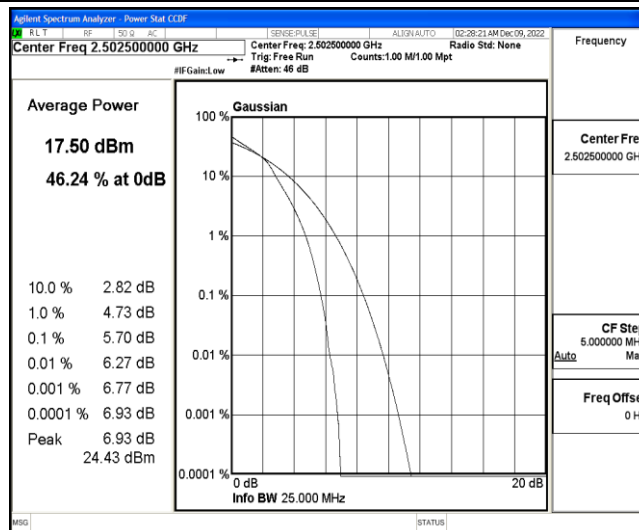
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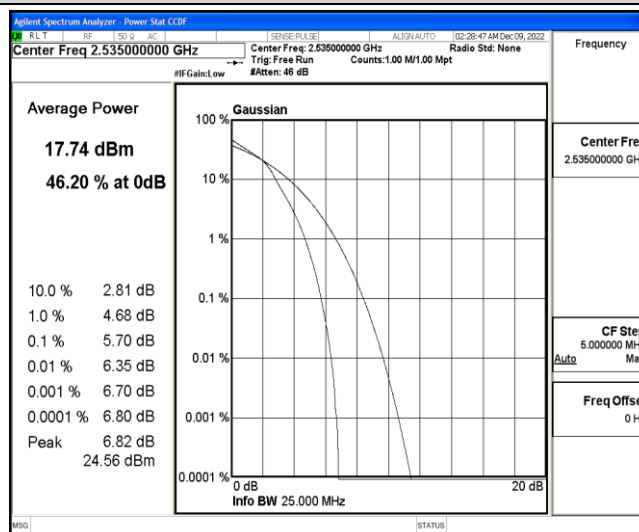
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Band7-5MHz-16QAM-20775-25RB#0

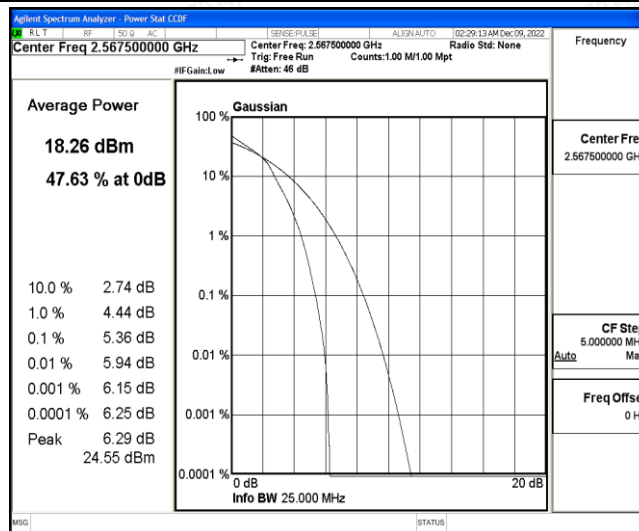


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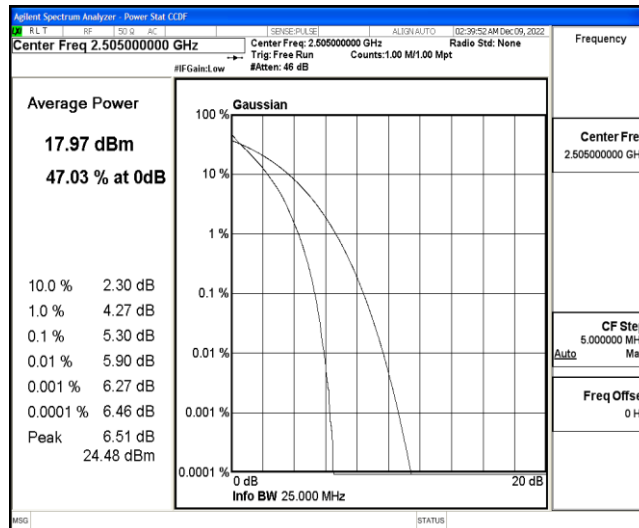


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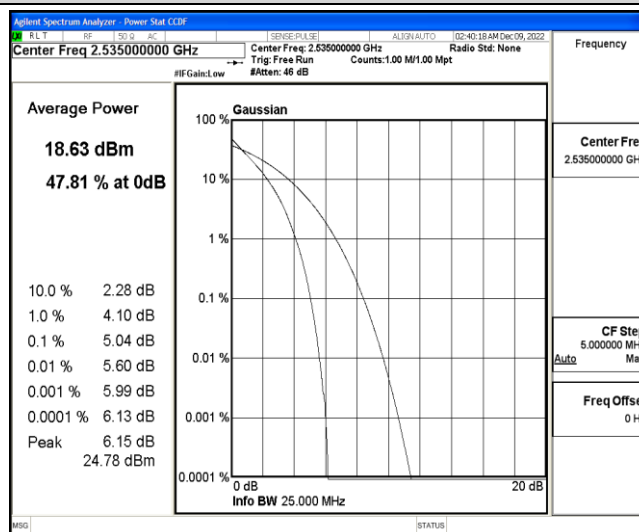




Band7-10MHz-QPSK-20800-50RB#0



Band7-10MHz-QPSK-21100-50RB#0



Band7-10MHz-QPSK-21400-50RB#0

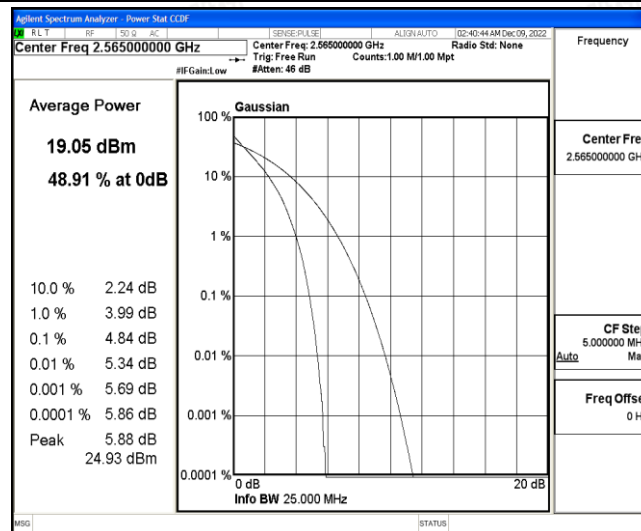


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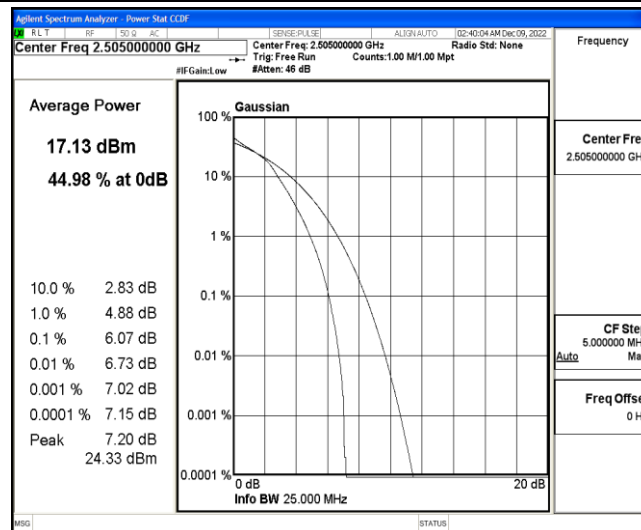
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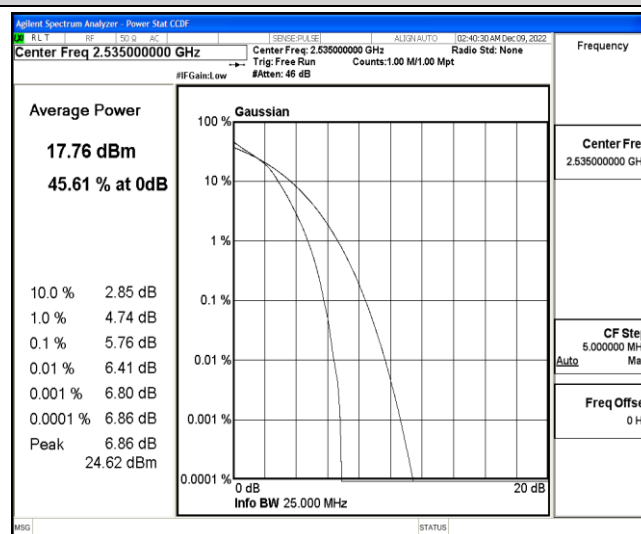
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Band7-10MHz-16QAM-20800-50RB#0



Band7-10MHz-16QAM-21100-50RB#0



Band7-10MHz-16QAM-21400-50RB#0

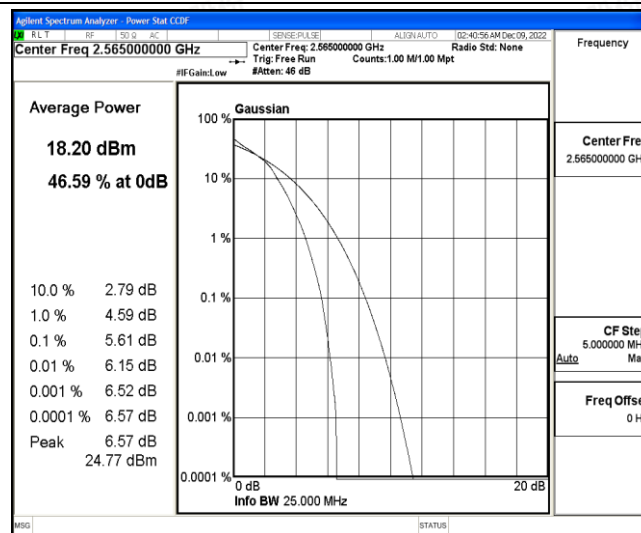


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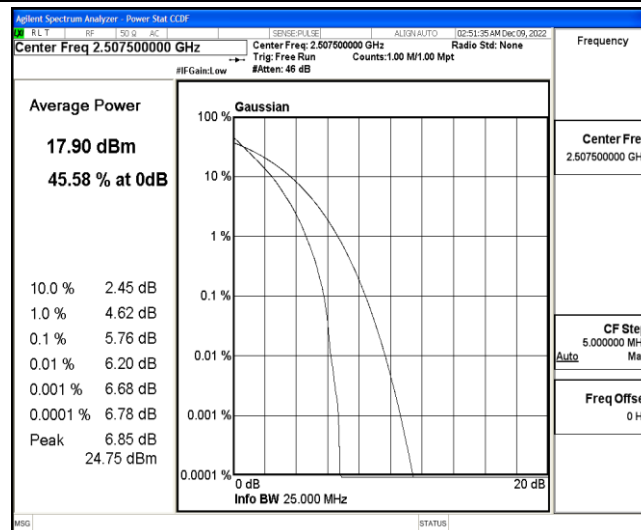
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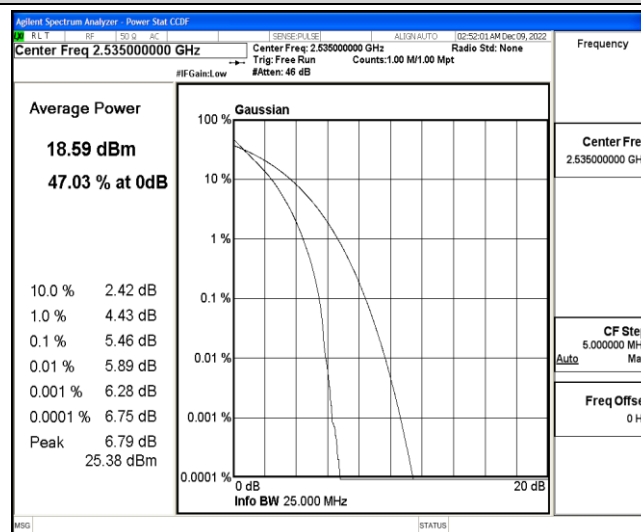
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Band7-15MHz-QPSK-20825-75RB#0



Band7-15MHz-QPSK-21100-75RB#0



Band7-15MHz-QPSK-21375-75RB#0

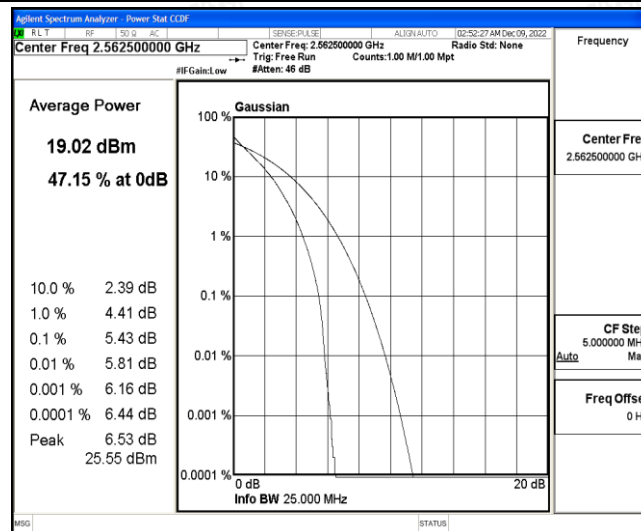


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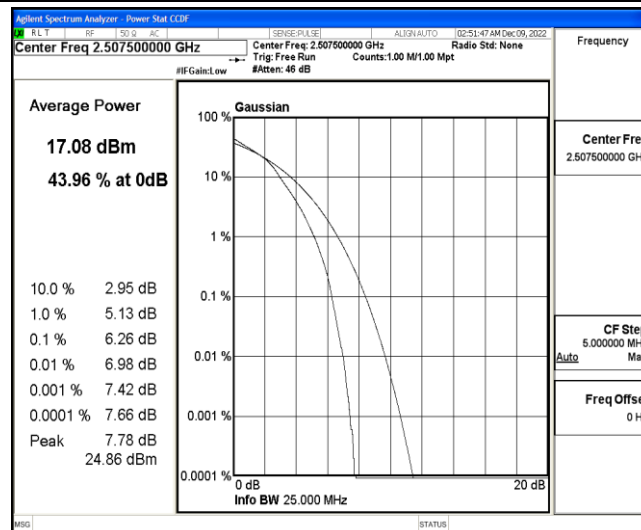
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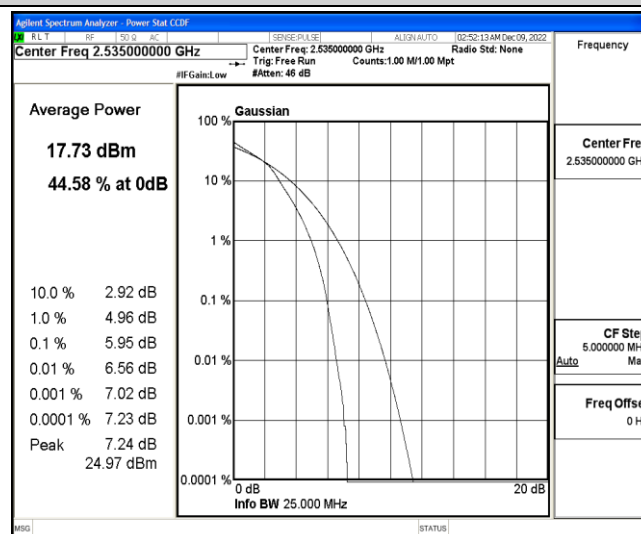
Scan code to check authenticity



Band7-15MHz-16QAM-20825-75RB#0



Band7-15MHz-16QAM-21100-75RB#0



Band7-15MHz-16QAM-21375-75RB#0

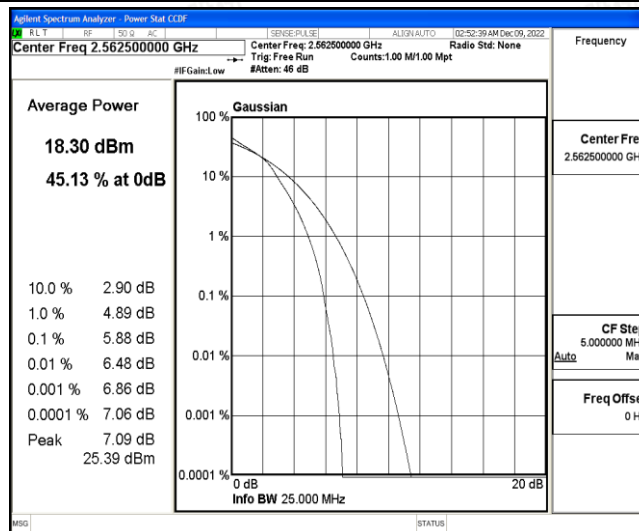


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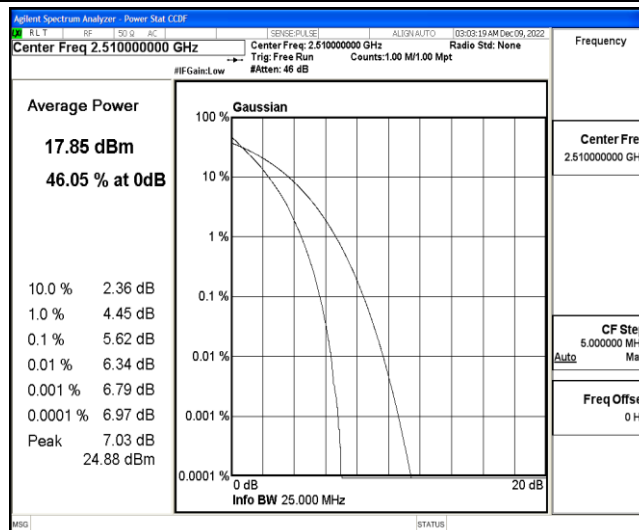
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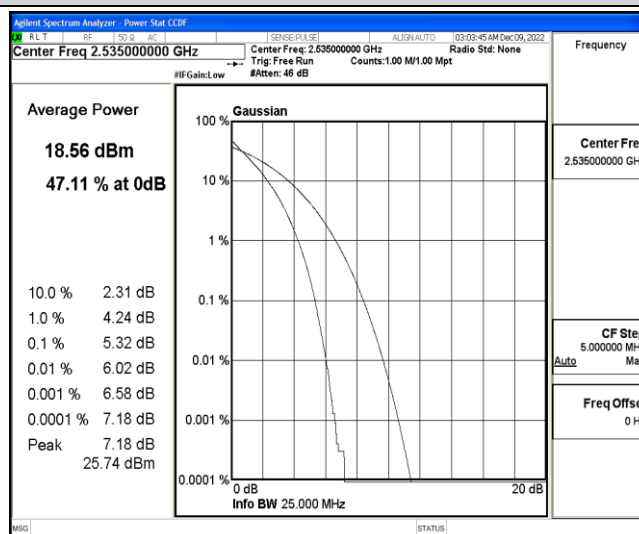
Scan code to check authenticity



Band7-20MHz-QPSK-20850-100RB#0



Band7-20MHz-QPSK-21100-100RB#0



Band7-20MHz-QPSK-21350-100RB#0

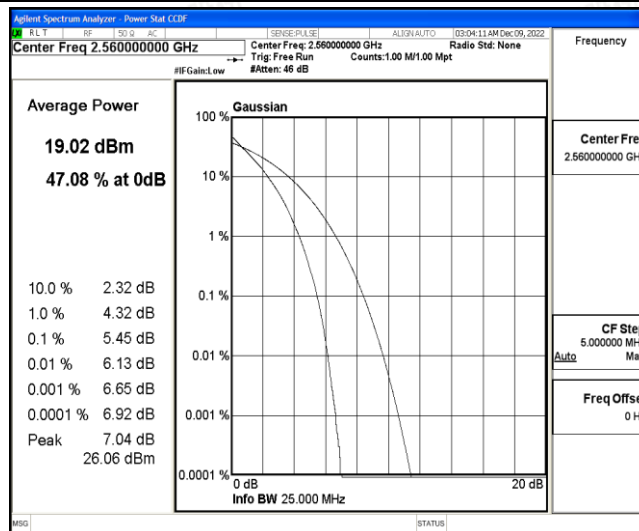


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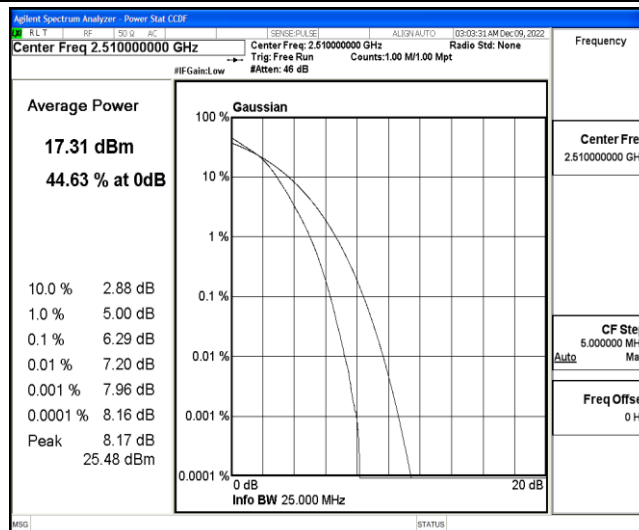
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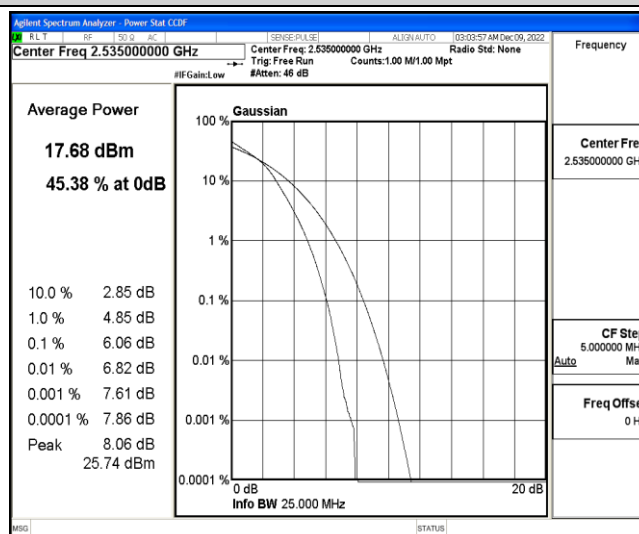
Scan code to check authenticity



Band7-20MHz-16QAM-20850-100RB#0



Band7-20MHz-16QAM-21100-100RB#0



Band7-20MHz-16QAM-21350-100RB#0

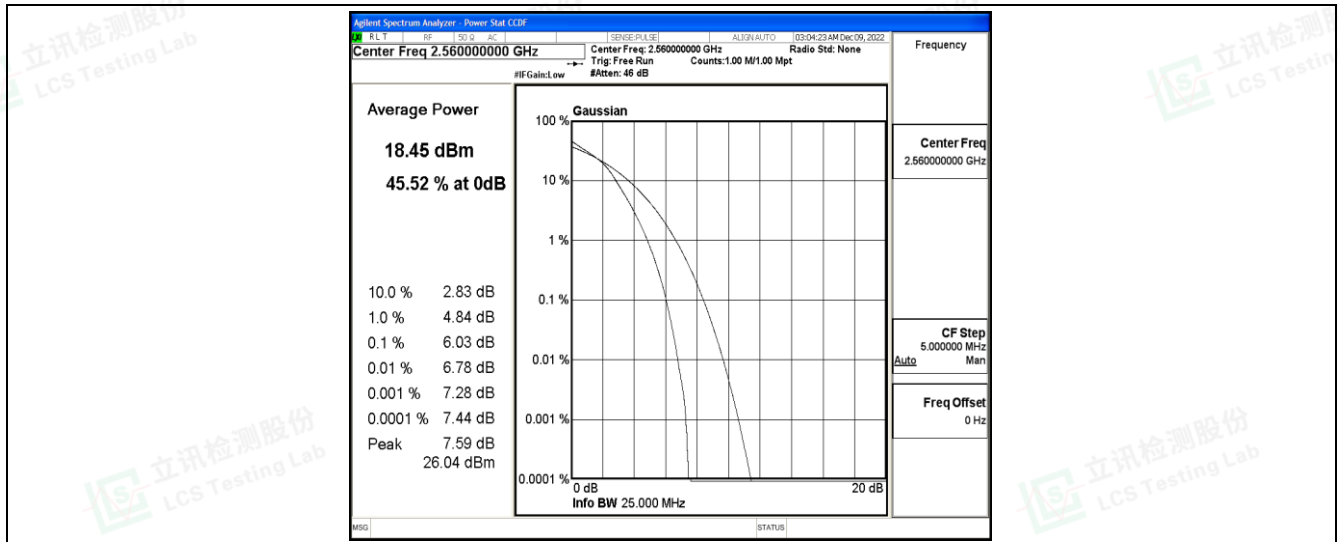


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G.3 26dB Bandwidth and Occupied Bandwidth

Test Result

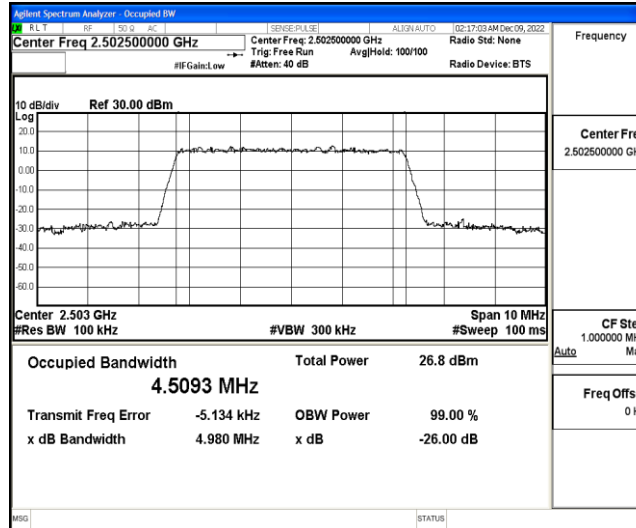
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5093	4.980	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5009	4.966	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5097	4.979	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5053	4.983	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5316	4.987	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5296	4.995	PASS
Band7	10MHz	QPSK	20800	50RB#0	9.0121	9.897	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9912	9.879	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9855	9.928	PASS
Band7	10MHz	16QAM	20800	50RB#0	9.0005	9.940	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9912	9.912	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9971	9.937	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.505	14.89	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.466	14.93	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.473	14.96	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.520	14.96	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.484	14.86	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.535	15.05	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.006	19.69	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.032	19.80	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.991	19.71	PASS
Band7	20MHz	16QAM	20850	100RB#0	18.069	19.57	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.991	19.76	PASS
Band7	20MHz	16QAM	21350	100RB#0	18.035	19.78	PASS



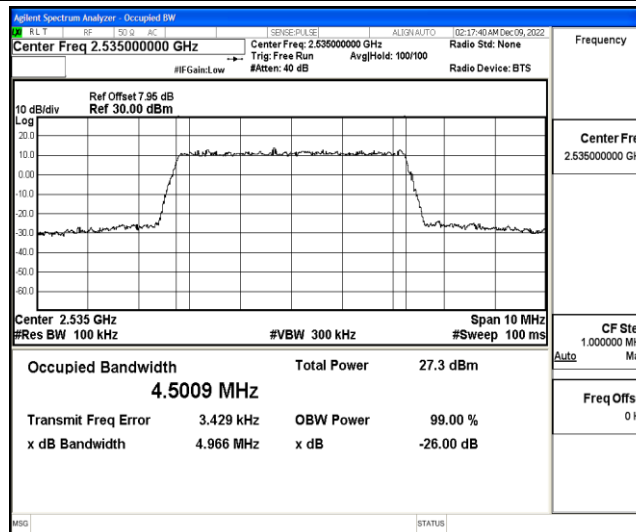


Test Graphs

Band7-5MHz-QPSK-20775-25RB#0



Band7-5MHz-QPSK-21100-25RB#0



Band7-5MHz-QPSK-21425-25RB#0

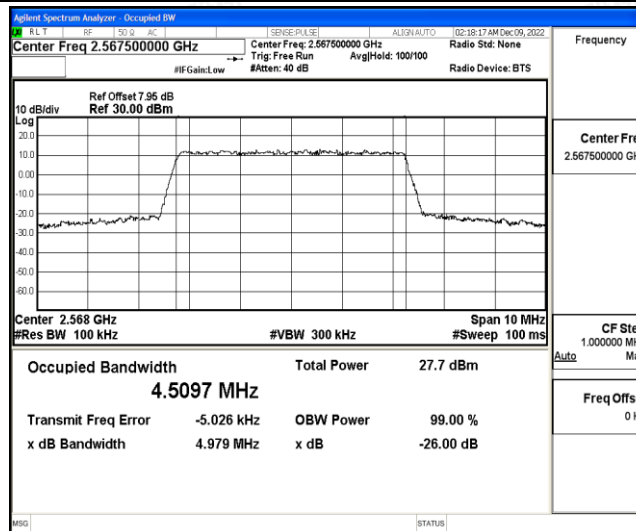


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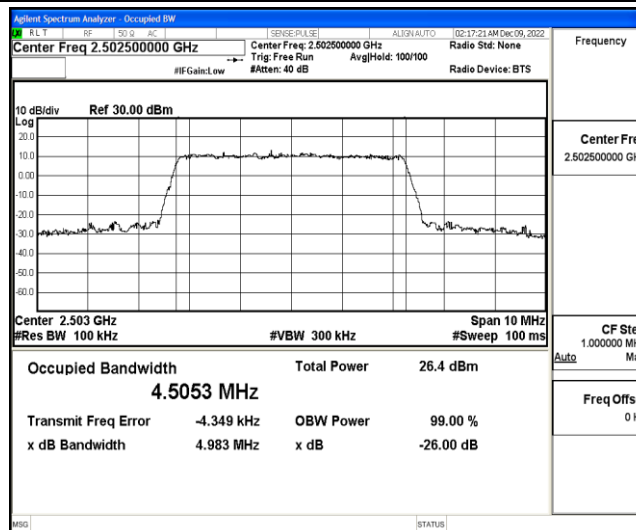
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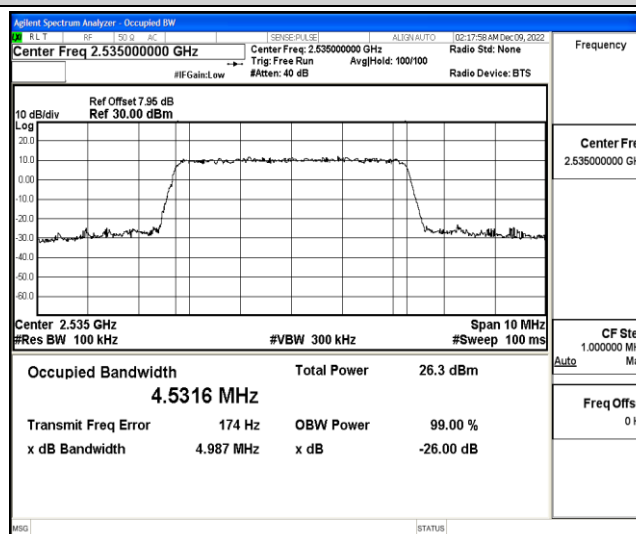
Scan code to check authenticity



Band7-5MHz-16QAM-20775-25RB#0



Band7-5MHz-16QAM-21100-25RB#0



Band7-5MHz-16QAM-21425-25RB#0

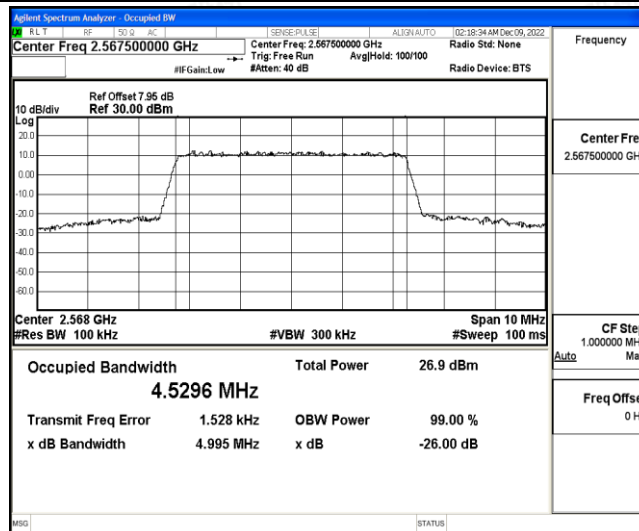


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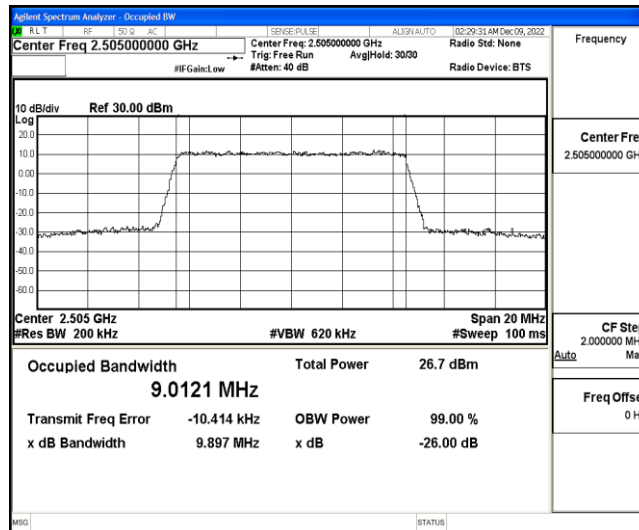
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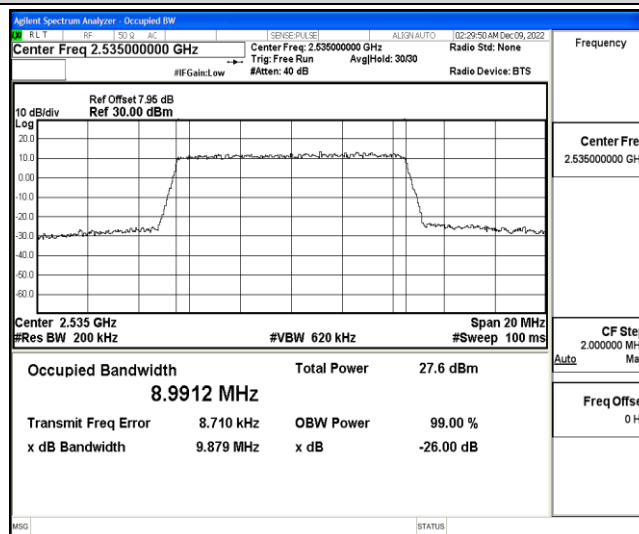
Scan code to check authenticity



Band7-10MHz-QPSK-20800-50RB#0



Band7-10MHz-QPSK-21100-50RB#0



Band7-10MHz-QPSK-21400-50RB#0

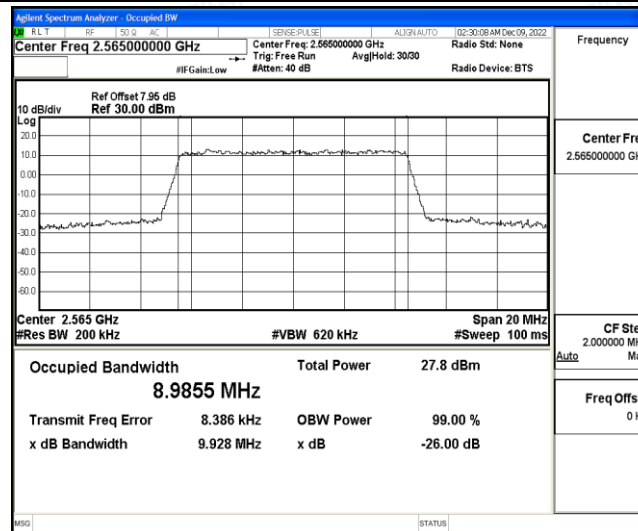


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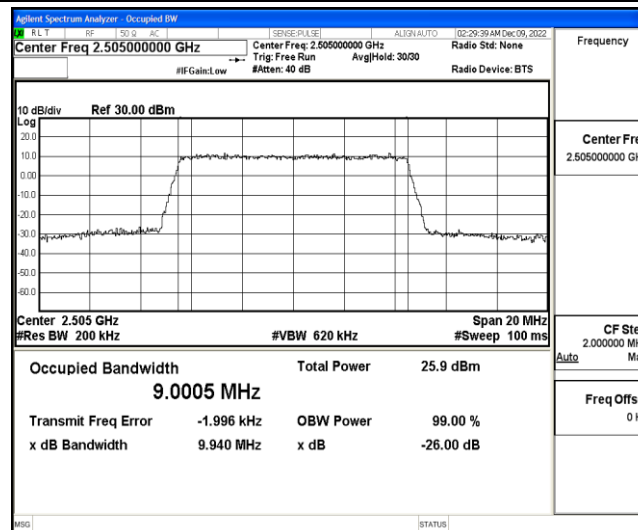
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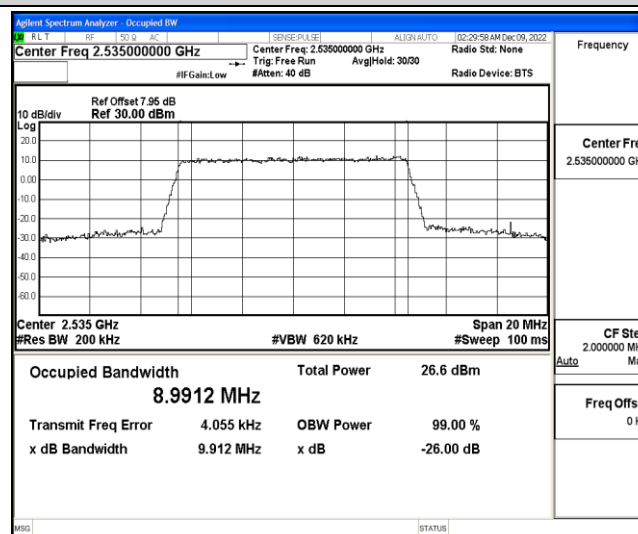
Scan code to check authenticity



Band7-10MHz-16QAM-20800-50RB#0



Band7-10MHz-16QAM-21100-50RB#0



Band7-10MHz-16QAM-21400-50RB#0

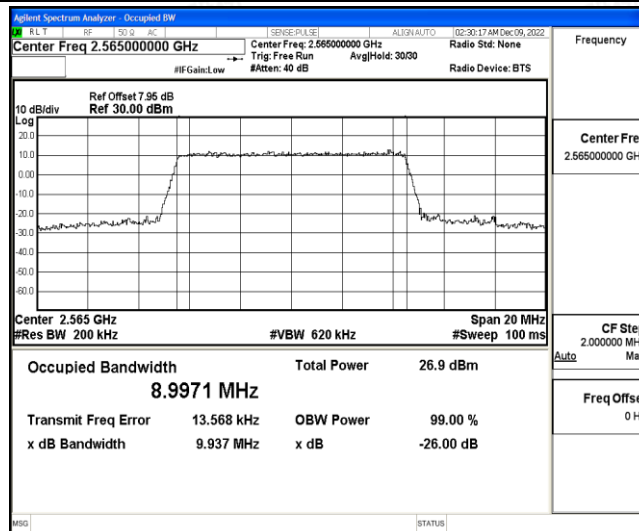


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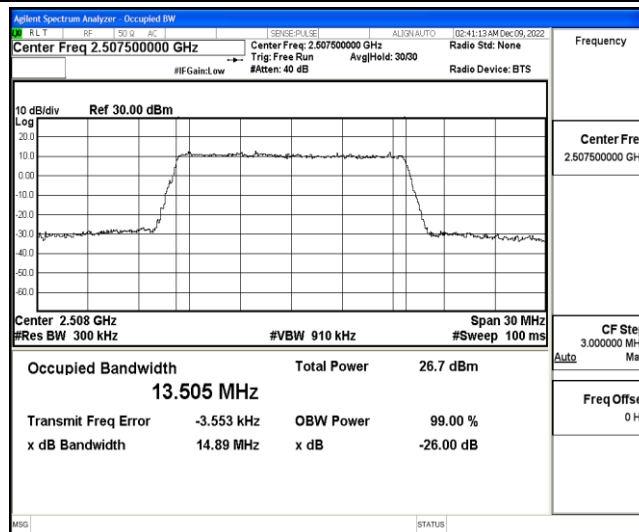
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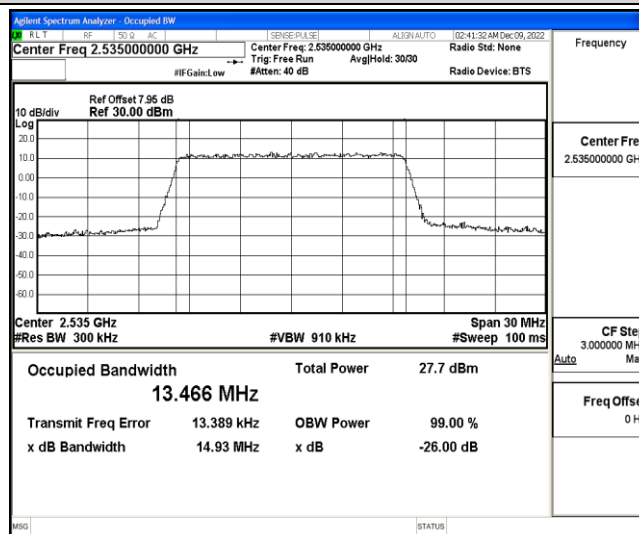
Scan code to check authenticity



Band7-15MHz-QPSK-20825-75RB#0



Band7-15MHz-QPSK-21100-75RB#0



Band7-15MHz-QPSK-21375-75RB#0

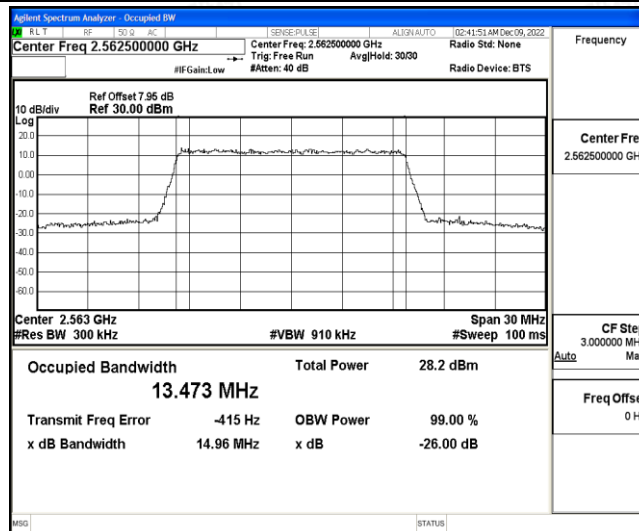


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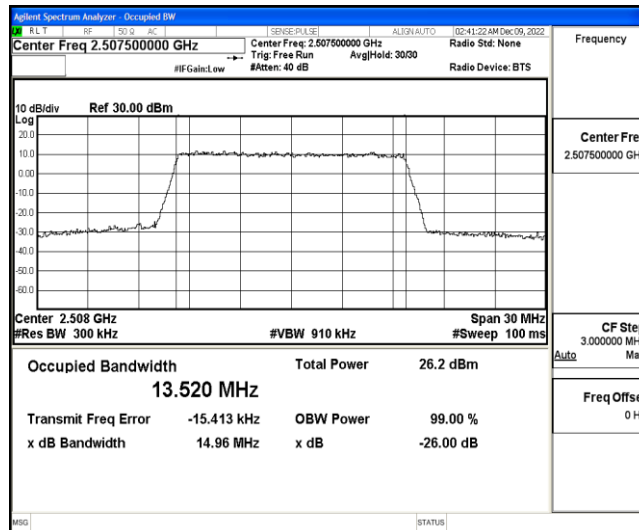
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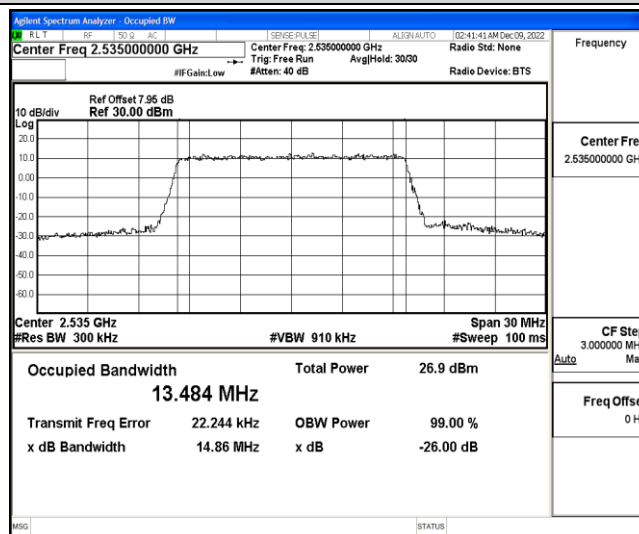
Scan code to check authenticity



Band7-15MHz-16QAM-20825-75RB#0



Band7-15MHz-16QAM-21100-75RB#0



Band7-15MHz-16QAM-21375-75RB#0

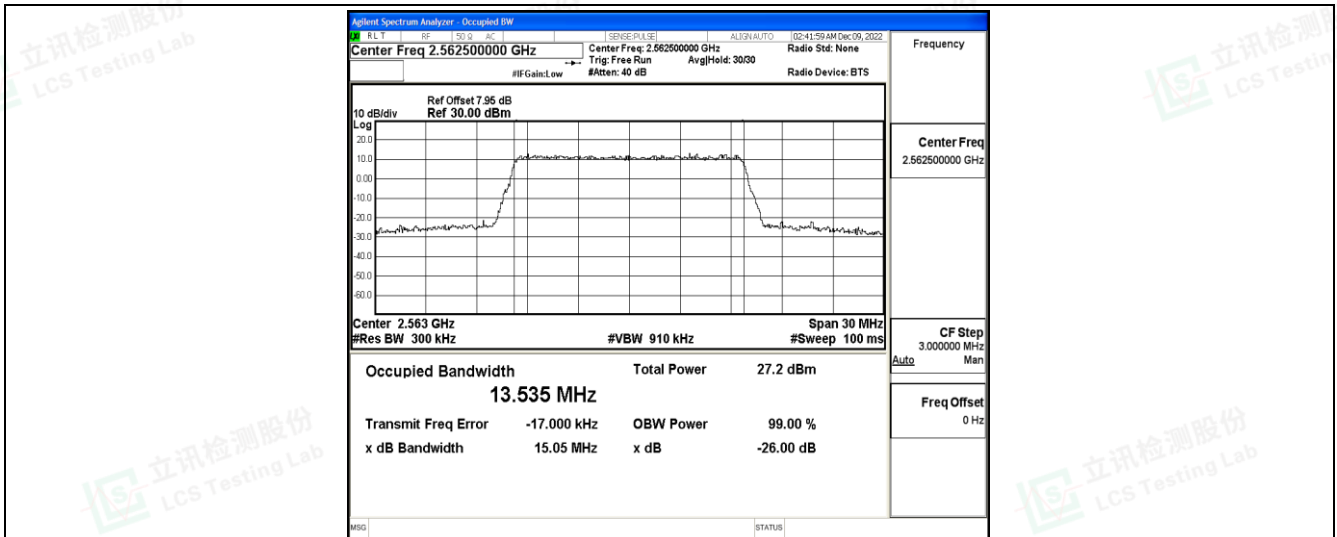


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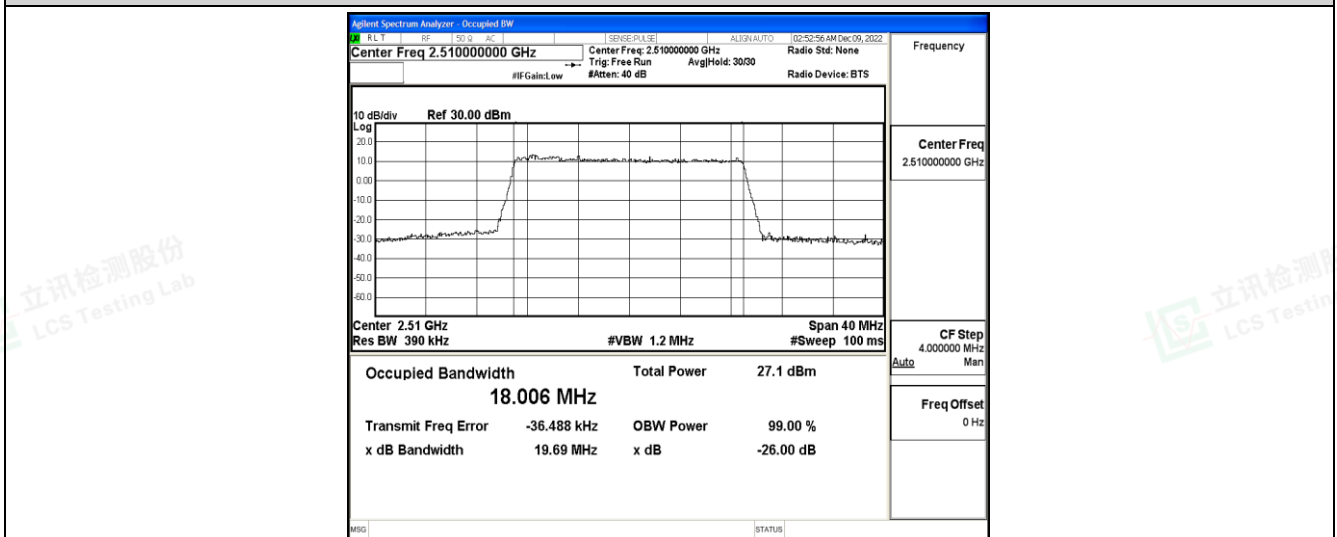
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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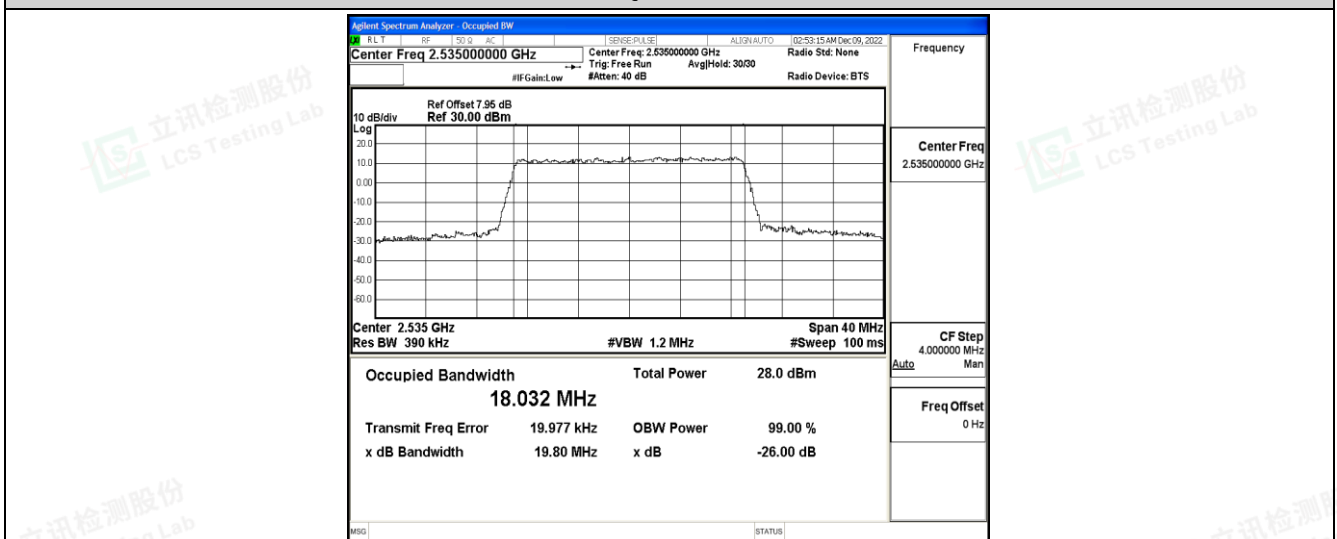
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Band7-20MHz-QPSK-20850-100RB#0



Band7-20MHz-QPSK-21100-100RB#0



Band7-20MHz-QPSK-21350-100RB#0

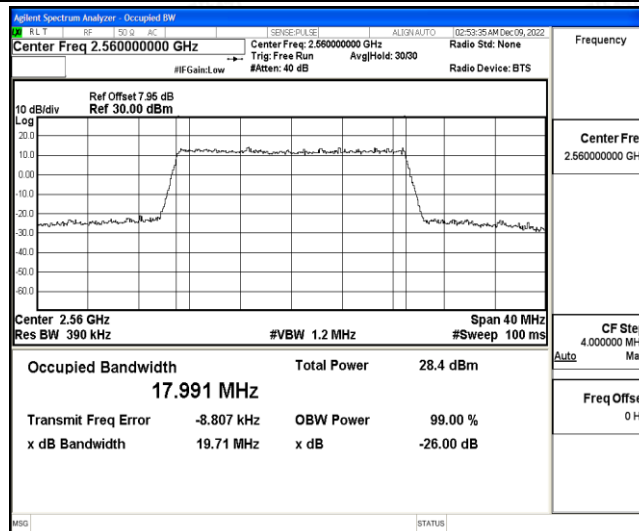


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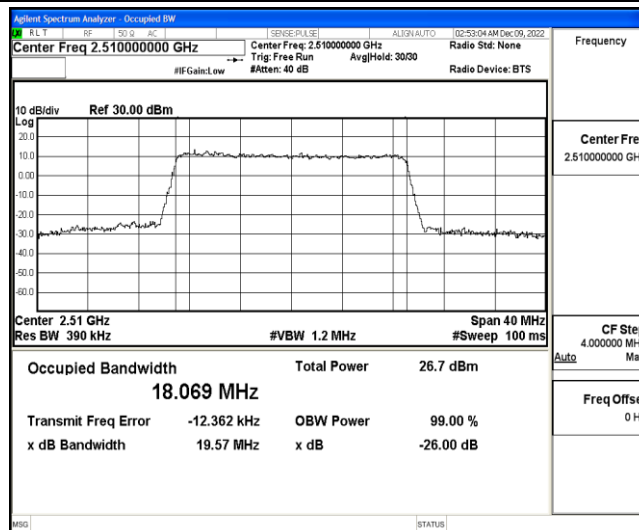
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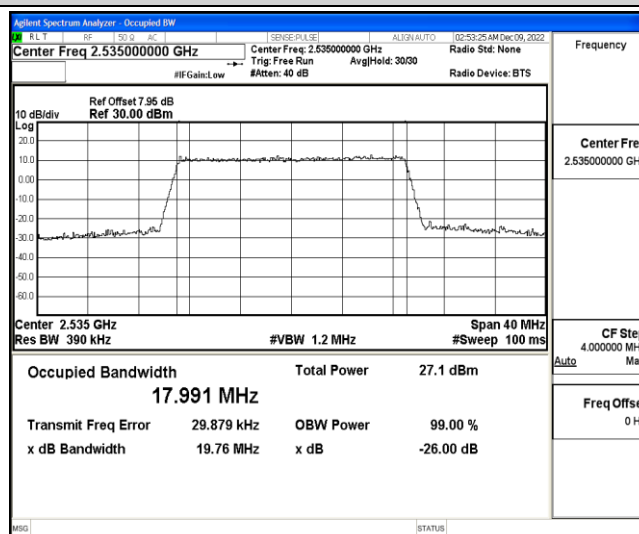
Scan code to check authenticity



Band7-20MHz-16QAM-20850-100RB#0



Band7-20MHz-16QAM-21100-100RB#0



Band7-20MHz-16QAM-21350-100RB#0

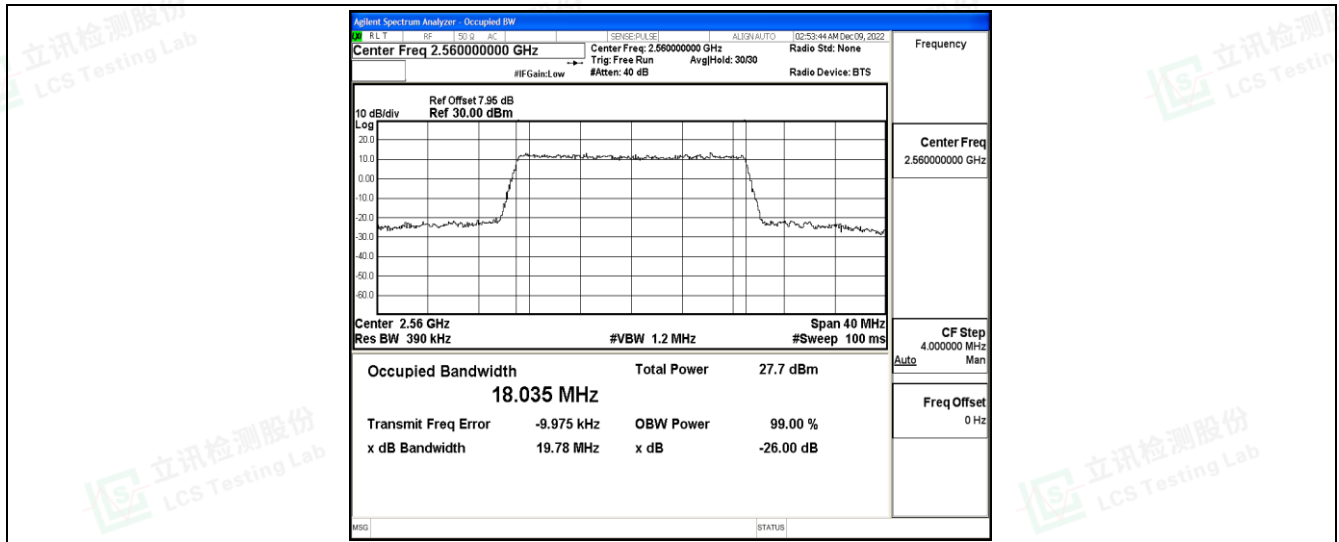


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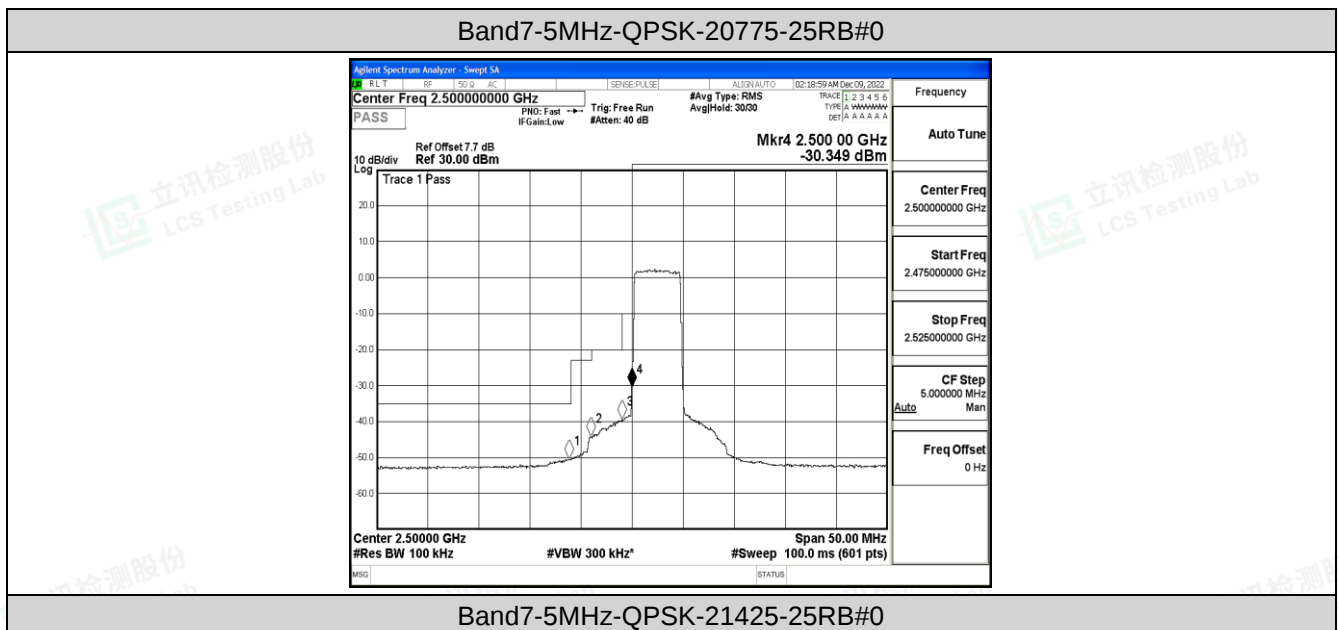


G.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	-50.44,-44.17,-39.40,-30.35	PASS
Band7	5MHz	QPSK	21425	25RB#0	-27.05,-32.44,-47.44,-48.43	PASS
Band7	5MHz	16QAM	20775	25RB#0	-50.43,-46.10,-38.98,-31.12	PASS
Band7	5MHz	16QAM	21425	25RB#0	-29.57,-34.79,-47.63,-48.78	PASS
Band7	10MHz	QPSK	20800	50RB#0	-48.30,-41.25,-38.42,-33.27	PASS
Band7	10MHz	QPSK	21400	50RB#0	-30.54,-33.47,-37.00,-46.87	PASS
Band7	10MHz	16QAM	20800	50RB#0	-48.34,-41.84,-38.82,-33.89	PASS
Band7	10MHz	16QAM	21400	50RB#0	-32.07,-34.78,-38.67,-46.61	PASS
Band7	15MHz	QPSK	20825	75RB#0	-43.62,-38.95,-36.67,-33.32	PASS
Band7	15MHz	QPSK	21375	75RB#0	-31.09,-33.32,-35.43,-45.12	PASS
Band7	15MHz	16QAM	20825	75RB#0	-44.56,-39.18,-37.14,-33.78	PASS
Band7	15MHz	16QAM	21375	75RB#0	-32.12,-34.27,-36.69,-45.28	PASS
Band7	20MHz	QPSK	20850	100RB#0	-39.95,-37.60,-35.54,-33.38	PASS
Band7	20MHz	QPSK	21350	100RB#0	-32.65,-35.17,-36.94,-45.03	PASS
Band7	20MHz	16QAM	20850	100RB#0	-40.39,-37.42,-35.67,-33.27	PASS
Band7	20MHz	16QAM	21350	100RB#0	-33.25,-35.17,-36.59,-44.95	PASS

Test Graphs



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