



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131987		132322		132657	
Frequency (MHz)				1711.5		1745		1778.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	23.43	0.220	23.66	0.232	23.58	0.228
3	QPSK	1	8	23.51	0.224	23.59	0.229	23.64	0.231
3	QPSK	1	14	23.70	0.234	23.54	0.226	23.61	0.230
3	QPSK	8	0	23.08	0.203	23.32	0.215	23.02	0.200
3	QPSK	8	4	23.07	0.203	23.08	0.203	22.95	0.197
3	QPSK	8	7	22.94	0.197	23.30	0.214	22.91	0.195
3	QPSK	15	0	22.93	0.196	23.04	0.201	22.98	0.199
3	16QAM	1	0	22.85	0.193	23.13	0.206	23.21	0.209
3	16QAM	1	8	22.87	0.194	22.90	0.195	23.03	0.201
3	16QAM	1	14	23.05	0.202	22.96	0.198	22.92	0.196
3	16QAM	8	0	22.08	0.161	22.08	0.161	22.19	0.166
3	16QAM	8	4	21.76	0.150	21.97	0.157	21.91	0.155
3	16QAM	8	7	21.89	0.155	22.23	0.167	21.94	0.156
3	16QAM	15	0	21.59	0.144	21.62	0.145	21.94	0.156



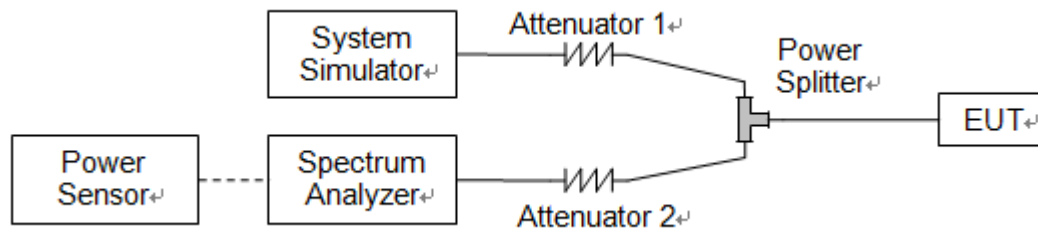
LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131979		132322		132665	
Frequency (MHz)				1710.7		1745		1779.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	23.52	0.225	23.61	0.230	23.61	0.230
1.4	QPSK	1	3	23.58	0.228	23.51	0.224	23.58	0.228
1.4	QPSK	1	5	23.66	0.232	23.64	0.231	23.69	0.234
1.4	QPSK	3	0	23.57	0.228	23.55	0.226	23.34	0.216
1.4	QPSK	3	1	23.49	0.223	23.48	0.223	23.72	0.236
1.4	QPSK	3	3	23.40	0.219	23.47	0.222	23.68	0.233
1.4	QPSK	6	0	22.81	0.191	23.14	0.206	22.85	0.193
1.4	16QAM	1	0	22.80	0.191	23.12	0.205	22.94	0.197
1.4	16QAM	1	3	22.79	0.190	22.91	0.195	23.04	0.201
1.4	16QAM	1	5	22.99	0.199	23.17	0.207	23.22	0.210
1.4	16QAM	3	0	22.32	0.171	22.58	0.181	22.37	0.173
1.4	16QAM	3	1	22.26	0.168	22.55	0.180	22.46	0.176
1.4	16QAM	3	3	22.38	0.173	22.43	0.175	22.27	0.169
1.4	16QAM	6	0	21.51	0.142	21.85	0.153	21.65	0.146

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test Procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.



2.2.4. Test Result

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B2	1.4	Low	18607	1850.7	QPSK	1.1038	1.3894	PASS
B2	1.4	Low	18607	1850.7	16QAM	1.1064	1.4925	PASS
B2	1.4	Mid	18900	1880	QPSK	1.0956	1.2943	PASS
B2	1.4	Mid	18900	1880	16QAM	1.0844	1.2431	PASS
B2	1.4	High	19193	1909.3	QPSK	1.0963	1.2846	PASS
B2	1.4	High	19193	1909.3	16QAM	1.1030	1.2992	PASS
B2	3	Low	18615	1851.5	QPSK	2.6994	2.9774	PASS
B2	3	Low	18615	1851.5	16QAM	2.6957	2.9431	PASS
B2	3	Mid	18900	1880	QPSK	2.6911	2.9155	PASS
B2	3	Mid	18900	1880	16QAM	2.6921	3.3599	PASS
B2	3	High	19185	1908.5	QPSK	2.6878	2.9179	PASS
B2	3	High	19185	1908.5	16QAM	2.6919	2.9363	PASS
B2	5	Low	18625	1852.5	QPSK	4.4940	5.0327	PASS
B2	5	Low	18625	1852.5	16QAM	4.4956	4.9375	PASS
B2	5	Mid	18900	1880	QPSK	4.4808	4.8782	PASS
B2	5	Mid	18900	1880	16QAM	4.4821	4.8617	PASS
B2	5	High	19175	1907.5	QPSK	4.4824	4.8925	PASS
B2	5	High	19175	1907.5	16QAM	4.4907	4.8987	PASS
B2	10	Low	18650	1855	QPSK	9.0150	10.0357	PASS
B2	10	Low	18650	1855	16QAM	8.9730	10.0147	PASS
B2	10	Mid	18900	1880	QPSK	8.9744	9.6557	PASS
B2	10	Mid	18900	1880	16QAM	8.9635	9.6678	PASS
B2	10	High	19150	1905	QPSK	8.9872	9.6754	PASS
B2	10	High	19150	1905	16QAM	8.9590	9.6390	PASS
B2	15	Low	18675	1857.5	QPSK	13.483	14.548	PASS
B2	15	Low	18675	1857.5	16QAM	13.467	14.574	PASS
B2	15	Mid	18900	1880	QPSK	13.447	14.559	PASS
B2	15	Mid	18900	1880	16QAM	13.426	14.559	PASS
B2	15	High	19125	1902.5	QPSK	13.517	14.742	PASS
B2	15	High	19125	1902.5	16QAM	13.492	14.613	PASS
B2	20	Low	18700	1860	QPSK	17.934	19.274	PASS
B2	20	Low	18700	1860	16QAM	17.937	19.309	PASS
B2	20	Mid	18900	1880	QPSK	17.889	19.125	PASS



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B2	20	Mid	18900	1880	16QAM	17.879	19.058	PASS
B2	20	High	19100	1900	QPSK	17.983	24.112	PASS
B2	20	High	19100	1900	16QAM	17.962	19.198	PASS
B4	1.4	Low	19957	1710.7	QPSK	1.0930	1.2879	PASS
B4	1.4	Low	19957	1710.7	16QAM	1.0994	1.2982	PASS
B4	1.4	Mid	20175	1732.5	QPSK	1.0944	1.2777	PASS
B4	1.4	Mid	20175	1732.5	16QAM	1.1004	1.3045	PASS
B4	1.4	High	20393	1754.3	QPSK	1.0954	1.2750	PASS
B4	1.4	High	20393	1754.3	16QAM	1.1008	1.3037	PASS
B4	3	Low	19965	1711.5	QPSK	2.6893	2.9169	PASS
B4	3	Low	19965	1711.5	16QAM	2.6924	2.9304	PASS
B4	3	Mid	20175	1732.5	QPSK	2.6905	2.9206	PASS
B4	3	Mid	20175	1732.5	16QAM	2.6939	3.4171	PASS
B4	3	High	20385	1753.5	QPSK	2.6893	2.9284	PASS
B4	3	High	20385	1753.5	16QAM	2.6946	2.9316	PASS
B4	5	Low	19975	1712.5	QPSK	4.4817	4.8810	PASS
B4	5	Low	19975	1712.5	16QAM	4.4932	4.8434	PASS
B4	5	Mid	20175	1732.5	QPSK	4.4860	4.8877	PASS
B4	5	Mid	20175	1732.5	16QAM	4.4913	4.8964	PASS
B4	5	High	20375	1752.5	QPSK	4.4846	4.8745	PASS
B4	5	High	20375	1752.5	16QAM	4.4907	4.8853	PASS
B4	10	Low	20000	1715	QPSK	8.9825	9.6647	PASS
B4	10	Low	20000	1715	16QAM	8.9649	9.5976	PASS
B4	10	Mid	20175	1732.5	QPSK	8.9629	9.7099	PASS
B4	10	Mid	20175	1732.5	16QAM	8.9382	9.6406	PASS
B4	10	High	20350	1750	QPSK	8.9784	9.6240	PASS
B4	10	High	20350	1750	16QAM	8.9534	9.6044	PASS
B4	15	Low	20025	1717.5	QPSK	13.447	14.474	PASS
B4	15	Low	20025	1717.5	16QAM	13.487	14.418	PASS
B4	15	Mid	20175	1732.5	QPSK	13.400	14.407	PASS
B4	15	Mid	20175	1732.5	16QAM	13.397	14.462	PASS
B4	15	High	20325	1747.5	QPSK	13.448	14.505	PASS
B4	15	High	20325	1747.5	16QAM	13.433	14.486	PASS
B4	20	Low	20050	1720	QPSK	17.887	19.145	PASS
B4	20	Low	20050	1720	16QAM	17.960	19.151	PASS
B4	20	Mid	20175	1732.5	QPSK	17.838	19.049	PASS
B4	20	Mid	20175	1732.5	16QAM	17.855	19.076	PASS
B4	20	High	20300	1745	QPSK	17.900	19.152	PASS



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B4	20	High	20300	1745	16QAM	17.917	19.100	PASS
B5	1.4	Low	20407	824.7	QPSK	1.0952	1.2741	PASS
B5	1.4	Low	20407	824.7	16QAM	1.0990	1.2887	PASS
B5	1.4	Mid	20525	836.5	QPSK	1.0942	1.2775	PASS
B5	1.4	Mid	20525	836.5	16QAM	1.0979	1.2964	PASS
B5	1.4	High	20643	848.3	QPSK	1.0949	1.4329	PASS
B5	1.4	High	20643	848.3	16QAM	1.0997	1.3024	PASS
B5	3	Low	20415	825.5	QPSK	2.6864	2.9130	PASS
B5	3	Low	20415	825.5	16QAM	2.6892	2.9304	PASS
B5	3	Mid	20525	836.5	QPSK	2.6902	2.9232	PASS
B5	3	Mid	20525	836.5	16QAM	2.6916	2.9311	PASS
B5	3	High	20635	847.5	QPSK	2.6908	2.9169	PASS
B5	3	High	20635	847.5	16QAM	2.6922	2.9219	PASS
B5	5	Low	20425	826.5	QPSK	4.4837	4.8881	PASS
B5	5	Low	20425	826.5	16QAM	4.4854	4.8781	PASS
B5	5	Mid	20525	836.5	QPSK	4.4742	4.8915	PASS
B5	5	Mid	20525	836.5	16QAM	4.4910	4.8742	PASS
B5	5	High	20625	846.5	QPSK	4.4803	4.8738	PASS
B5	5	High	20625	846.5	16QAM	4.4795	4.8326	PASS
B5	10	Low	20450	829	QPSK	8.9796	9.6624	PASS
B5	10	Low	20450	829	16QAM	8.9504	9.6461	PASS
B5	10	Mid	20525	836.5	QPSK	8.9663	9.7004	PASS
B5	10	Mid	20525	836.5	16QAM	8.9566	9.6264	PASS
B5	10	High	20600	844	QPSK	8.9658	9.6483	PASS
B5	10	High	20600	844	16QAM	8.9249	9.5682	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B7	5	Low	20775	2502.5	QPSK	4.4980	4.8860	PASS
B7	5	Low	20775	2502.5	16QAM	4.4947	4.9000	PASS
B7	5	Mid	21100	2535	QPSK	4.4840	4.9071	PASS
B7	5	Mid	21100	2535	16QAM	4.4864	4.9440	PASS
B7	5	High	21425	2567.5	QPSK	4.4909	4.8933	PASS
B7	5	High	21425	2567.5	16QAM	4.4953	4.9015	PASS
B7	10	Low	20800	2505	QPSK	8.9836	9.6568	PASS
B7	10	Low	20800	2505	16QAM	8.9528	9.6160	PASS
B7	10	Mid	21100	2535	QPSK	8.9914	9.7325	PASS
B7	10	Mid	21100	2535	16QAM	8.9664	9.6297	PASS
B7	10	High	21400	2565	QPSK	8.9808	9.6676	PASS
B7	10	High	21400	2565	16QAM	8.9625	9.6086	PASS
B7	15	Low	20825	2507.5	QPSK	13.442	14.519	PASS
B7	15	Low	20825	2507.5	16QAM	13.441	14.476	PASS
B7	15	Mid	21100	2535	QPSK	13.470	14.560	PASS
B7	15	Mid	21100	2535	16QAM	13.452	14.530	PASS
B7	15	High	21375	2562.5	QPSK	13.464	14.464	PASS
B7	15	High	21375	2562.5	16QAM	13.450	14.405	PASS
B7	20	Low	20850	2510	QPSK	17.921	21.096	PASS
B7	20	Low	20850	2510	16QAM	17.923	19.279	PASS
B7	20	Mid	21100	2535	QPSK	17.921	19.208	PASS
B7	20	Mid	21100	2535	16QAM	17.957	19.165	PASS
B7	20	High	21350	2560	QPSK	17.915	19.855	PASS
B7	20	High	21350	2560	16QAM	17.920	19.232	PASS
B12	1.4	Low	23017	699.7	QPSK	1.0970	1.2702	PASS
B12	1.4	Low	23017	699.7	16QAM	1.1003	1.3028	PASS
B12	1.4	Mid	23095	707.5	QPSK	1.0970	1.3607	PASS
B12	1.4	Mid	23095	707.5	16QAM	1.1012	1.2925	PASS
B12	1.4	High	23173	715.3	QPSK	1.0973	1.2825	PASS
B12	1.4	High	23173	715.3	16QAM	1.0975	1.2862	PASS
B12	3	Low	23025	700.5	QPSK	2.6931	2.9311	PASS
B12	3	Low	23025	700.5	16QAM	2.7006	2.9339	PASS
B12	3	Mid	23095	707.5	QPSK	2.6908	3.1202	PASS
B12	3	Mid	23095	707.5	16QAM	2.6889	2.9408	PASS
B12	3	High	23165	714.5	QPSK	2.6873	2.9086	PASS



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B12	3	High	23165	714.5	16QAM	2.6915	2.9321	PASS
B12	5	Low	23035	701.5	QPSK	4.5023	5.1686	PASS
B12	5	Low	23035	701.5	16QAM	4.5076	5.1476	PASS
B12	5	Mid	23095	707.5	QPSK	4.4924	5.2274	PASS
B12	5	Mid	23095	707.5	16QAM	4.4932	5.5297	PASS
B12	5	High	23155	713.5	QPSK	4.5109	5.1891	PASS
B12	5	High	23155	713.5	16QAM	4.5125	5.1823	PASS
B12	10	Low	23060	704	QPSK	9.0111	10.0270	PASS
B12	10	Low	23060	704	16QAM	8.9806	9.7963	PASS
B12	10	Mid	23095	707.5	QPSK	8.9215	9.7730	PASS
B12	10	Mid	23095	707.5	16QAM	8.8935	9.7059	PASS
B12	10	High	23130	711	QPSK	9.0047	9.9553	PASS
B12	10	High	23130	711	16QAM	8.9629	9.9013	PASS
B17	5	Low	23755	706.5	QPSK	4.4968	5.0803	PASS
B17	5	Low	23755	706.5	16QAM	4.4982	5.1009	PASS
B17	5	Mid	23790	710	QPSK	4.4829	5.0920	PASS
B17	5	Mid	23790	710	16QAM	4.4832	5.1031	PASS
B17	5	High	23825	713.5	QPSK	4.5093	5.2244	PASS
B17	5	High	23825	713.5	16QAM	4.5118	5.1922	PASS
B17	10	Low	23780	709	QPSK	8.9533	9.8436	PASS
B17	10	Low	23780	709	16QAM	8.9037	9.7939	PASS
B17	10	Mid	23790	710	QPSK	8.9724	10.0867	PASS
B17	10	Mid	23790	710	16QAM	8.9199	9.8533	PASS
B17	10	High	23800	711	QPSK	8.9683	9.9246	PASS
B17	10	High	23800	711	16QAM	8.9496	10.7762	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B38	5	Low	37775	2572.5	QPSK	4.4877	4.8365	PASS
B38	5	Low	37775	2572.5	16QAM	4.4801	5.0101	PASS
B38	5	Mid	38000	2595	QPSK	4.5099	7.0197	PASS
B38	5	Mid	38000	2595	16QAM	4.4978	6.1667	PASS
B38	5	High	38225	2617.5	QPSK	4.5004	5.1432	PASS
B38	5	High	38225	2617.5	16QAM	4.4882	5.2413	PASS
B38	10	Low	37800	2575	QPSK	8.9621	10.1030	PASS
B38	10	Low	37800	2575	16QAM	8.9572	10.1987	PASS
B38	10	Mid	38000	2595	QPSK	9.0246	13.4065	PASS
B38	10	Mid	38000	2595	16QAM	8.9797	11.2960	PASS
B38	10	High	38200	2615	QPSK	8.9783	10.0070	PASS
B38	10	High	38200	2615	16QAM	8.9681	9.9925	PASS
B38	15	Low	37825	2577.5	QPSK	13.440	14.532	PASS
B38	15	Low	37825	2577.5	16QAM	13.449	15.253	PASS
B38	15	Mid	38000	2595	QPSK	13.471	15.383	PASS
B38	15	Mid	38000	2595	16QAM	13.472	15.117	PASS
B38	15	High	38175	2612.5	QPSK	13.478	14.920	PASS
B38	15	High	38175	2612.5	16QAM	13.490	15.240	PASS
B38	20	Low	37850	2580	QPSK	17.906	19.643	PASS
B38	20	Low	37850	2580	16QAM	17.921	19.116	PASS
B38	20	Mid	38000	2595	QPSK	17.974	24.683	PASS
B38	20	Mid	38000	2595	16QAM	17.940	24.256	PASS
B38	20	High	38150	2610	QPSK	17.964	19.933	PASS
B38	20	High	38150	2610	16QAM	17.925	20.889	PASS
B66	1.4	Low	131979	1710.7	QPSK	1.0864	1.2536	PASS
B66	1.4	Low	131979	1710.7	16QAM	1.0999	1.2932	PASS
B66	1.4	Mid	132322	1745	QPSK	1.0950	1.2798	PASS
B66	1.4	Mid	132322	1745	16QAM	1.0994	1.2947	PASS
B66	1.4	High	132665	1779.3	QPSK	1.0934	1.2753	PASS
B66	1.4	High	132665	1779.3	16QAM	1.1012	1.3037	PASS
B66	3	Low	131987	1711.5	QPSK	2.6907	2.9265	PASS
B66	3	Low	131987	1711.5	16QAM	2.6920	2.9350	PASS
B66	3	Mid	132322	1745	QPSK	2.6873	2.9227	PASS
B66	3	Mid	132322	1745	16QAM	2.6957	2.9445	PASS
B66	3	High	132657	1778.5	QPSK	2.6928	2.9285	PASS



B66	3	High	132657	1778.5	16QAM	2.7028	2.9304	PASS
B66	5	Low	131997	1712.5	QPSK	4.4962	5.1337	PASS
B66	5	Low	131997	1712.5	16QAM	4.5021	5.1355	PASS
B66	5	Mid	132322	1745	QPSK	4.5001	5.1507	PASS
B66	5	Mid	132322	1745	16QAM	4.5012	5.1625	PASS
B66	5	High	132647	1777.5	QPSK	4.4981	5.0827	PASS
B66	5	High	132647	1777.5	16QAM	4.4918	5.0362	PASS
B66	10	Low	132022	1715	QPSK	9.0248	9.9020	PASS
B66	10	Low	132022	1715	16QAM	8.9760	9.8833	PASS
B66	10	Mid	132322	1745	QPSK	8.9852	9.9851	PASS
B66	10	Mid	132322	1745	16QAM	8.9572	9.8305	PASS
B66	10	High	132622	1775	QPSK	8.9884	10.0187	PASS
B66	10	High	132622	1775	16QAM	8.9572	9.7285	PASS
B66	15	Low	132047	1717.5	QPSK	13.482	14.804	PASS
B66	15	Low	132047	1717.5	16QAM	13.470	14.784	PASS
B66	15	Mid	132322	1745	QPSK	13.465	14.866	PASS
B66	15	Mid	132322	1745	16QAM	13.470	14.817	PASS
B66	15	High	132597	1772.5	QPSK	13.455	14.821	PASS
B66	15	High	132597	1772.5	16QAM	13.440	14.767	PASS
B66	20	Low	132072	1720	QPSK	17.916	19.270	PASS
B66	20	Low	132072	1720	16QAM	17.924	19.504	PASS
B66	20	Mid	132322	1745	QPSK	17.932	19.559	PASS
B66	20	Mid	132322	1745	16QAM	17.923	19.303	PASS
B66	20	High	132572	1770	QPSK	17.931	19.449	PASS
B66	20	High	132572	1770	16QAM	17.946	19.586	PASS



B2 / 1.4MHz / QPSK/ Low CH



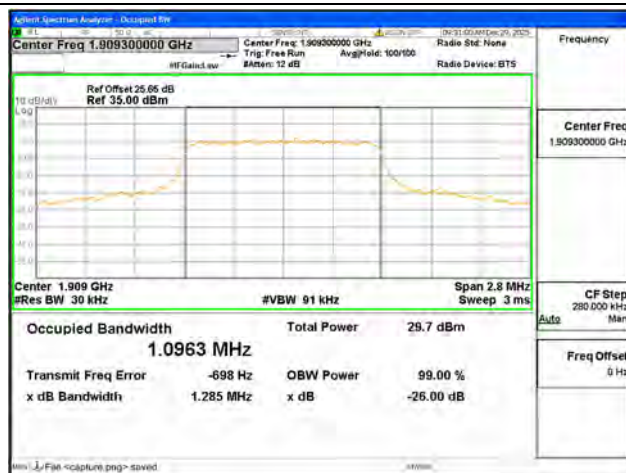
B2 / 1.4MHz / 16QAM/ Low CH



B2 / 1.4MHz / QPSK/ Mid CH



B2 / 1.4MHz / 16QAM/ Mid CH



B2 / 1.4MHz / QPSK/ High CH



B2 / 1.4MHz / 16QAM/ High CH



B2 / 3MHz / QPSK/ Low CH



B2 / 3MHz / 16QAM/ Low CH



B2 / 3MHz / QPSK/ Mid CH



B2 / 3MHz / 16QAM/ Mid CH



B2 / 3MHz / QPSK/ High CH



B2 / 3MHz / 16QAM/ High CH



B2 / 5MHz / QPSK/ Low CH



B2 / 5MHz / 16QAM/ Low CH



B2 / 5MHz / QPSK/ Mid CH



B2 / 5MHz / 16QAM/ Mid CH



B2 / 5MHz / QPSK/ High CH



B2 / 5MHz / 16QAM/ High CH



B2 / 10MHz / QPSK/ Low CH



B2 / 10MHz / 16QAM/ Low CH



B2 / 10MHz / QPSK/ Mid CH



B2 / 10MHz / 16QAM/ Mid CH



B2 / 10MHz / QPSK/ High CH



B2 / 10MHz / 16QAM/ High CH



B2 / 15MHz / QPSK/ Low CH



B2 / 15MHz / 16QAM/ Low CH



B2 / 15MHz / QPSK/ Mid CH



B2 / 15MHz / 16QAM/ Mid CH



B2 / 15MHz / QPSK/ High CH



B2 / 15MHz / 16QAM/ High CH



B2 / 20MHz / QPSK/ Low CH



B2 / 20MHz / 16QAM/ Low CH



B2 / 20MHz / QPSK/ Mid CH



B2 / 20MHz / 16QAM/ Mid CH



B2 / 20MHz / QPSK/ High CH



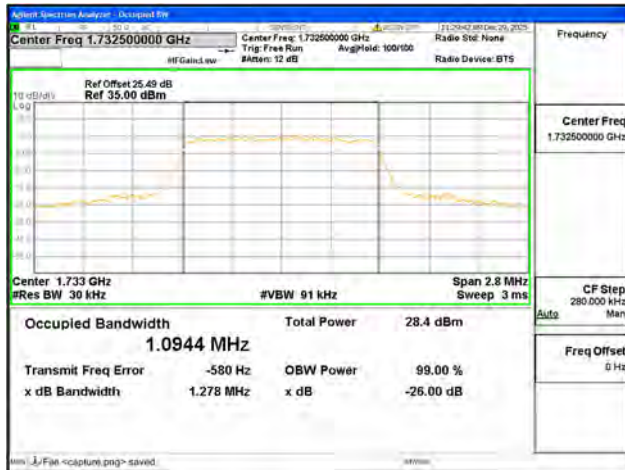
B2 / 20MHz / 16QAM/ High CH



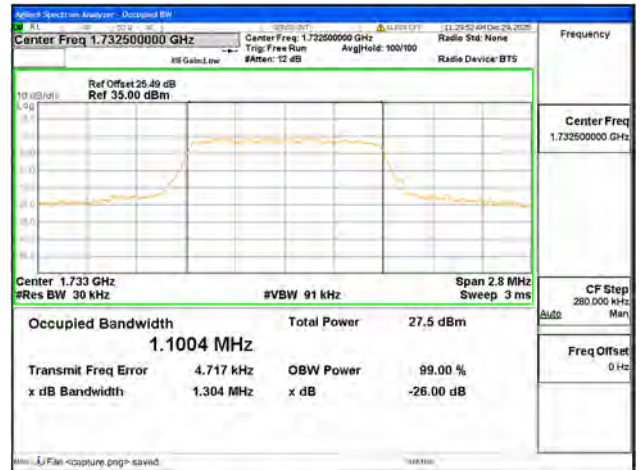
B4 / 1.4MHz / QPSK/ Low CH



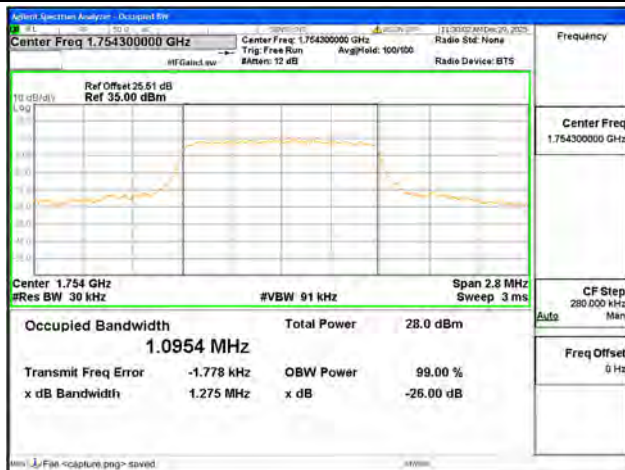
B4 / 1.4MHz / 16QAM/ Low CH



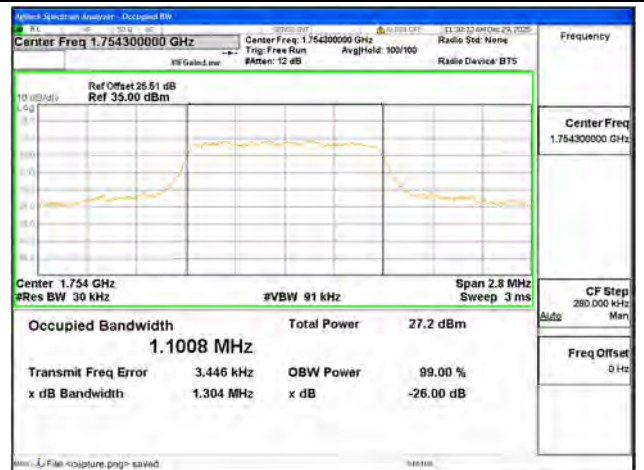
B4 / 1.4MHz / QPSK/ Mid CH



B4 / 1.4MHz / 16QAM/ Mid CH



B4 / 1.4MHz / QPSK/ High CH



B4 / 1.4MHz / 16QAM/ High CH



B4 / 3MHz / QPSK/ Low CH



B4 / 3MHz / 16QAM/ Low CH



B4 / 3MHz / QPSK/ Mid CH



B4 / 3MHz / 16QAM/ Mid CH



B4 / 3MHz / QPSK/ High CH



B4 / 3MHz / 16QAM/ High CH



B4 / 5MHz / QPSK/ Low CH



B4 / 5MHz / 16QAM/ Low CH



B4 / 5MHz / QPSK/ Mid CH



B4 / 5MHz / 16QAM/ Mid CH



B4 / 5MHz / QPSK/ High CH



B4 / 5MHz / 16QAM/ High CH



B4 / 10MHz / QPSK/ Low CH



B4 / 10MHz / 16QAM/ Low CH



B4 / 10MHz / QPSK/ Mid CH



B4 / 10MHz / 16QAM/ Mid CH



B4 / 10MHz / QPSK/ High CH



B4 / 10MHz / 16QAM/ High CH



B4 / 15MHz / QPSK/ Low CH



B4 / 15MHz / 16QAM/ Low CH



B4 / 15MHz / QPSK/ Mid CH



B4 / 15MHz / 16QAM/ Mid CH



B4 / 15MHz / QPSK/ High CH



B4 / 15MHz / 16QAM/ High CH



B4 / 20MHz / QPSK/ Low CH



B4 / 20MHz / 16QAM/ Low CH



B4 / 20MHz / QPSK/ Mid CH



B4 / 20MHz / 16QAM/ Mid CH



B4 / 20MHz / QPSK/ High CH



B4 / 20MHz / 16QAM/ High CH



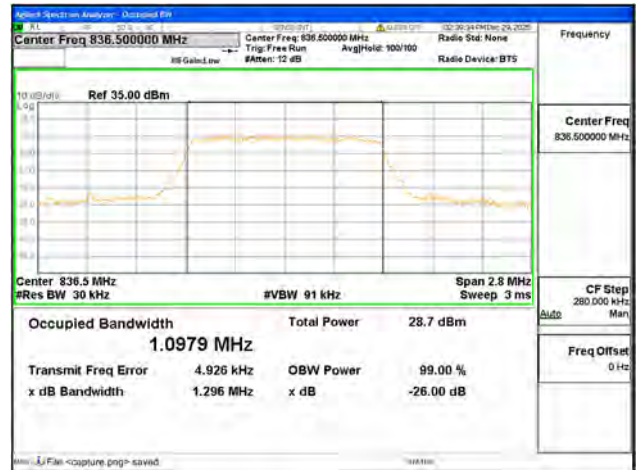
B5 / 1.4MHz / QPSK/ Low CH



B5 / 1.4MHz / 16QAM/ Low CH



B5 / 1.4MHz / QPSK/ Mid CH



B5 / 1.4MHz / 16QAM/ Mid CH



B5 / 1.4MHz / QPSK/ High CH



B5 / 1.4MHz / 16QAM/ High CH



B5 / 3MHz / QPSK/ Low CH



B5 / 3MHz / 16QAM/ Low CH



B5 / 3MHz / QPSK/ Mid CH



B5 / 3MHz / 16QAM/ Mid CH



B5 / 3MHz / QPSK/ High CH



B5 / 3MHz / 16QAM/ High CH



B5 / 5MHz / QPSK/ Low CH



B5 / 5MHz / 16QAM/ Low CH



B5 / 5MHz / QPSK/ Mid CH



B5 / 5MHz / 16QAM/ Mid CH



B5 / 5MHz / QPSK/ High CH



B5 / 5MHz / 16QAM/ High CH



B5 / 10MHz / QPSK/ Low CH



B5 / 10MHz / 16QAM/ Low CH



B5 / 10MHz / QPSK/ Mid CH



B5 / 10MHz / 16QAM/ Mid CH



B5 / 10MHz / QPSK/ High CH



B5 / 10MHz / 16QAM/ High CH



B7 / 5MHz / QPSK/ Low CH



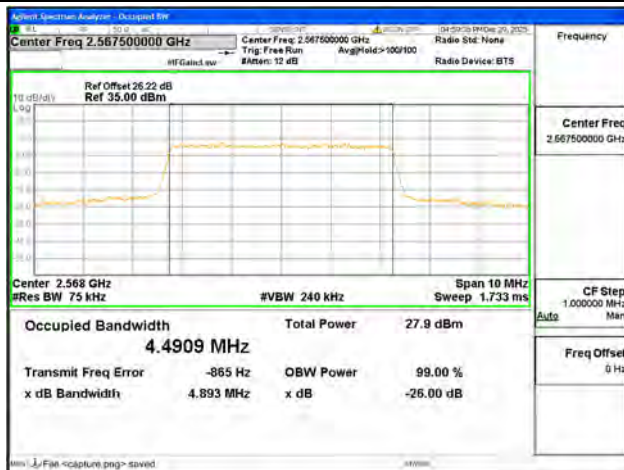
B7 / 5MHz / 16QAM/ Low CH



B7 / 5MHz / QPSK/ Mid CH



B7 / 5MHz / 16QAM/ Mid CH



B7 / 5MHz / QPSK/ High CH



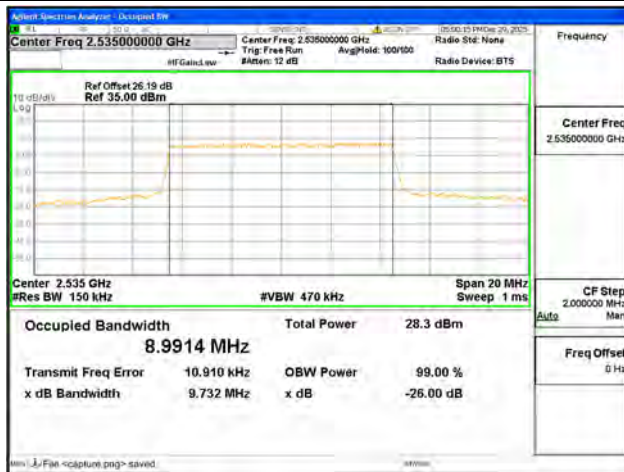
B7 / 5MHz / 16QAM/ High CH



B7 / 10MHz / QPSK/ Low CH



B7 / 10MHz / 16QAM/ Low CH



B7 / 10MHz / QPSK/ Mid CH



B7 / 10MHz / 16QAM/ Mid CH



B7 / 10MHz / QPSK/ High CH



B7 / 10MHz / 16QAM/ High CH



B7 / 15MHz / QPSK/ Low CH



B7 / 15MHz / 16QAM/ Low CH



B7 / 15MHz / QPSK/ Mid CH



B7 / 15MHz / 16QAM/ Mid CH



B7 / 15MHz / QPSK/ High CH



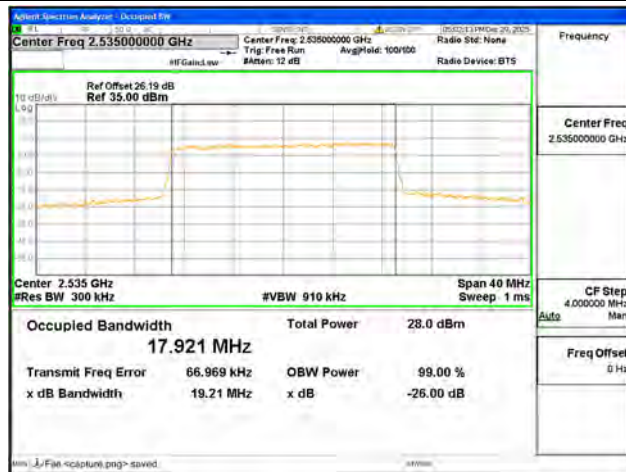
B7 / 15MHz / 16QAM/ High CH



B7 / 20MHz / QPSK/ Low CH



B7 / 20MHz / 16QAM/ Low CH



B7 / 20MHz / QPSK/ Mid CH



B7 / 20MHz / 16QAM/ Mid CH



B7 / 20MHz / QPSK/ High CH



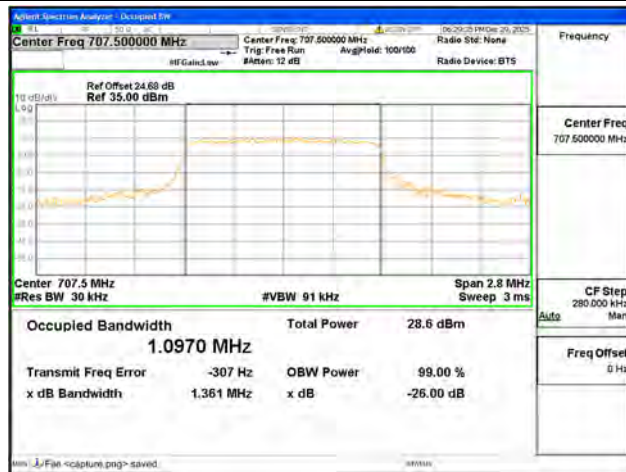
B7 / 20MHz / 16QAM/ High CH



B12 / 1.4MHz / QPSK/ Low CH



B12 / 1.4MHz / 16QAM/ Low CH



B12 / 1.4MHz / QPSK/ Mid CH



B12 / 1.4MHz / 16QAM/ Mid CH



B12 / 1.4MHz / QPSK/ High CH



B12 / 1.4MHz / 16QAM/ High CH



B12 / 3MHz / QPSK/ Low CH



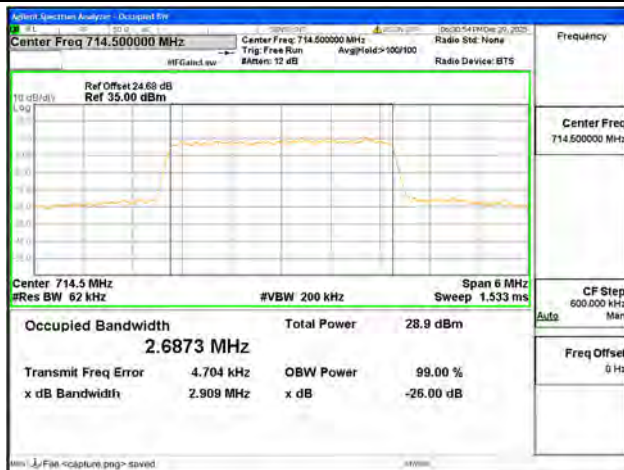
B12 / 3MHz / 16QAM/ Low CH



B12 / 3MHz / QPSK/ Mid CH



B12 / 3MHz / 16QAM/ Mid CH



B12 / 3MHz / QPSK/ High CH



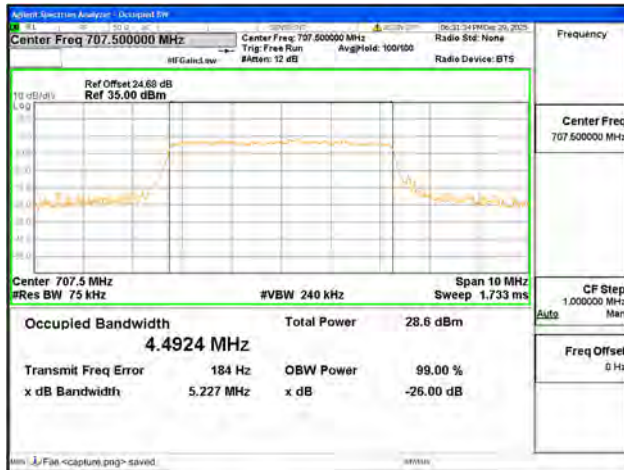
B12 / 3MHz / 16QAM/ High CH



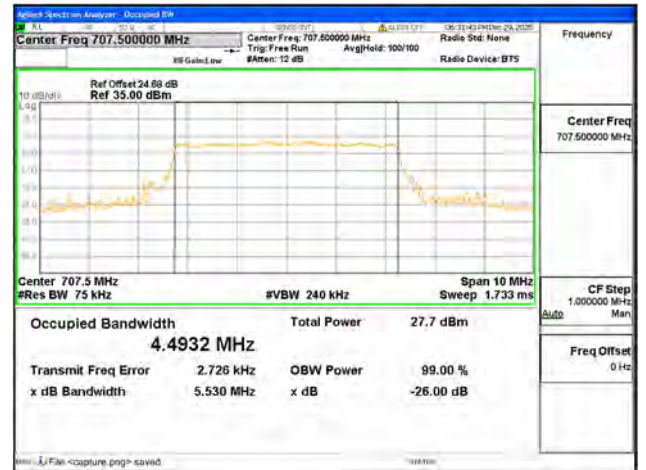
B12 / 5MHz / QPSK/ Low CH



B12 / 5MHz / 16QAM/ Low CH



B12 / 5MHz / QPSK/ Mid CH



B12 / 5MHz / 16QAM/ Mid CH



B12 / 5MHz / QPSK/ High CH



B12 / 5MHz / 16QAM/ High CH



B12 / 10MHz / QPSK/ Low CH



B12 / 10MHz / 16QAM/ Low CH



B12 / 10MHz / QPSK/ Mid CH



B12 / 10MHz / 16QAM/ Mid CH



B12 / 10MHz / QPSK/ High CH



B12 / 10MHz / 16QAM/ High CH



B17 / 5MHz / QPSK/ Low CH



B17 / 5MHz / 16QAM/ Low CH



B17 / 5MHz / QPSK/ Mid CH



B17 / 5MHz / 16QAM/ Mid CH



B17 / 5MHz / QPSK/ High CH



B17 / 5MHz / 16QAM/ High CH



B17 / 10MHz / QPSK/ Low CH



B17 / 10MHz / 16QAM/ Low CH



B17 / 10MHz / QPSK/ Mid CH



B17 / 10MHz / 16QAM/ Mid CH



B17 / 10MHz / QPSK/ High CH



B17 / 10MHz / 16QAM/ High CH



B38 / 5MHz / QPSK/ Low CH



B38 / 5MHz / 16QAM/ Low CH



B38 / 5MHz / QPSK/ Mid CH



B38 / 5MHz / 16QAM/ Mid CH



B38 / 5MHz / QPSK/ High CH



B38 / 5MHz / 16QAM/ High CH



B38 / 10MHz / QPSK/ Low CH



B38 / 10MHz / 16QAM/ Low CH



B38 / 10MHz / QPSK/ Mid CH



B38 / 10MHz / 16QAM/ Mid CH



B38 / 10MHz / QPSK/ High CH



B38 / 10MHz / 16QAM/ High CH



B38 / 15MHz / QPSK/ Low CH



B38 / 15MHz / 16QAM/ Low CH



B38 / 15MHz / QPSK/ Mid CH



B38 / 15MHz / 16QAM/ Mid CH



B38 / 15MHz / QPSK/ High CH



B38 / 15MHz / 16QAM/ High CH



B38 / 20MHz / QPSK/ Low CH



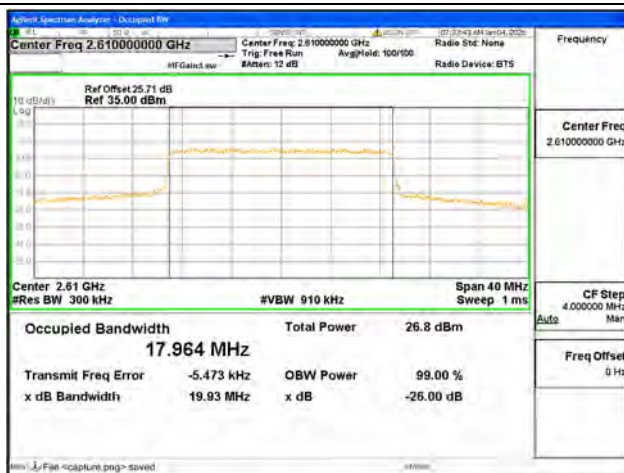
B38 / 20MHz / 16QAM/ Low CH



B38 / 20MHz / QPSK/ Mid CH



B38 / 20MHz / 16QAM/ Mid CH



B38 / 20MHz / QPSK/ High CH



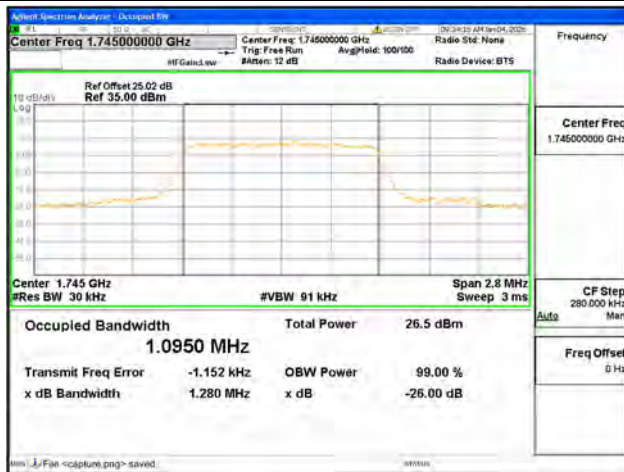
B38 / 20MHz / 16QAM/ High CH



B66 / 1.4MHz / QPSK/ Low CH



B66 / 1.4MHz / 16QAM/ Low CH



B66 / 1.4MHz / QPSK/ Mid CH



B66 / 1.4MHz / 16QAM/ Mid CH



B66 / 1.4MHz / QPSK/ High CH



B66 / 1.4MHz / 16QAM/ High CH



B66 / 3MHz / QPSK/ Low CH



B66 / 3MHz / 16QAM/ Low CH



B66 / 3MHz / QPSK/ Mid CH



B66 / 3MHz / 16QAM/ Mid CH



B66 / 3MHz / QPSK/ High CH



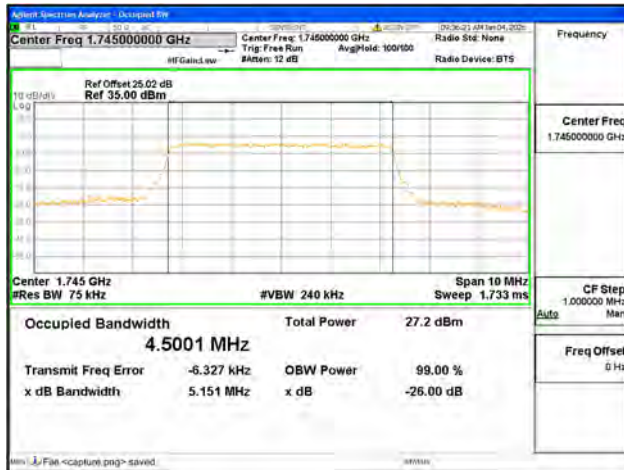
B66 / 3MHz / 16QAM/ High CH



B66 / 5MHz / QPSK/ Low CH



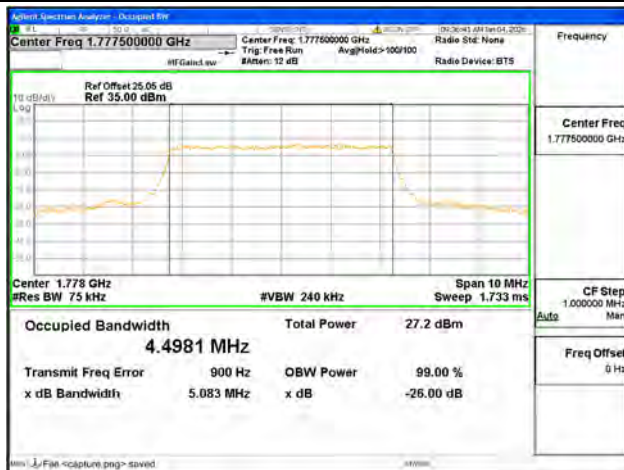
B66 / 5MHz / 16QAM/ Low CH



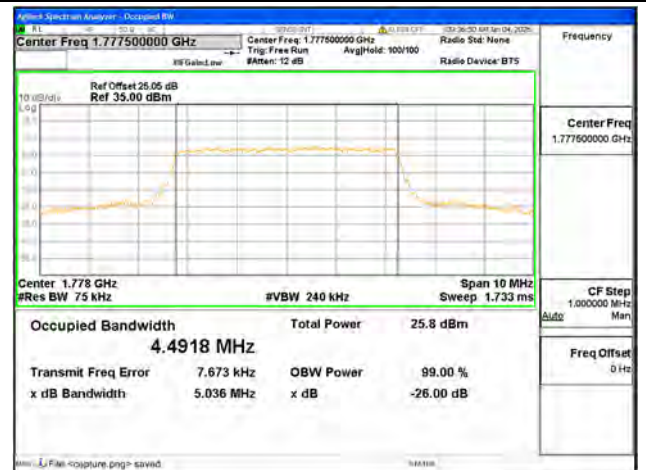
B66 / 5MHz / QPSK/ Mid CH



B66 / 5MHz / 16QAM/ Mid CH



B66 / 5MHz / QPSK/ High CH



B66 / 5MHz / 16QAM/ High CH



B66 / 10MHz / QPSK/ Low CH



B66 / 10MHz / 16QAM/ Low CH



B66 / 10MHz / QPSK/ Mid CH



B66 / 10MHz / 16QAM/ Mid CH



B66 / 10MHz / QPSK/ High CH



B66 / 10MHz / 16QAM/ High CH



B66 / 15MHz / QPSK/ Low CH



B66 / 15MHz / 16QAM/ Low CH



B66 / 15MHz / QPSK/ Mid CH



B66 / 15MHz / 16QAM/ Mid CH



B66 / 15MHz / QPSK/ High CH



B66 / 15MHz / 16QAM/ High CH



B66 / 20MHz / QPSK/ Low CH



B66 / 20MHz / 16QAM/ Low CH



B66 / 20MHz / QPSK/ Mid CH



B66 / 20MHz / 16QAM/ Mid CH



B66 / 20MHz / QPSK/ High CH



B66 / 20MHz / 16QAM/ High CH

2.3. Frequency Stability

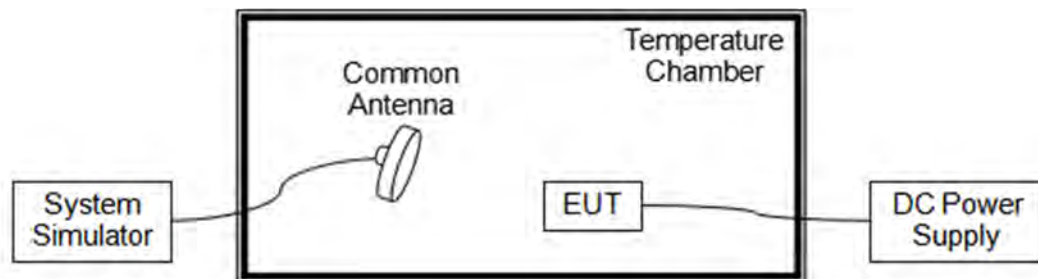
2.3.1. Requirement

According to FCC section 2.1055, 24.235, 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from -40°C to 70°C , which are specified by the applicant.

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test Procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.

**2.3.4. Test Result**

The nominal, highest and lowest extreme voltages are separately 12V, 24V and 35V, which are specified by the applicant; the normal temperature here used is 20°C.

LTE Band 2, 16QAM, Channel 18900, Frequency 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	24.00	+20(Ref)	13	0.007	PASS
100		-40	19	0.010	
100		-30	18	0.010	
100		-20	-15	-0.008	
100		-10	-23	-0.012	
100		0	-9	-0.005	
100		+10	15	0.008	
100		+20	17	0.009	
100		+30	15	0.008	
100		+40	-10	-0.005	
100		+50	13	0.007	
100		+60	-2	-0.001	
100		+70	13	0.007	
115	35.00	+20	18	0.010	
85	12.00	+20	17	0.009	



LTE Band 4, 16QAM, Channel 20175, Frequency 1732.5MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	24.00	+20(Ref)	15	0.009	PASS
100		-40	14	0.008	
100		-30	19	0.011	
100		-20	20	0.012	
100		-10	22	0.013	
100		0	-5	-0.003	
100		+10	19	0.011	
100		+20	13	0.008	
100		+30	18	0.010	
100		+40	18	0.010	
100		+50	16	0.009	
100		+60	20	0.012	
100		+70	3	0.002	
115	35.00	+20	11	0.006	
85	12.00	+20	18	0.010	



LTE Band 5, 16QAM, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	24.00	+20(Ref)	18	0.022	PASS
100		-40	14	0.017	
100		-30	16	0.019	
100		-20	18	0.022	
100		-10	19	0.023	
100		0	20	0.024	
100		+10	19	0.023	
100		+20	17	0.020	
100		+30	-8	-0.010	
100		+40	17	0.020	
100		+50	13	0.016	
100		+60	18	0.022	
100		+70	6	0.007	
115	35.00	+20	16	0.019	
85	12.00	+20	-10	-0.012	



LTE Band 7, 16QAM, Channel 21100, Frequency 2535.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	24.00	+20(Ref)	14	0.006	PASS
100		-40	0	0.000	
100		-30	20	0.008	
100		-20	-14	-0.006	
100		-10	1	0.000	
100		0	17	0.007	
100		+10	18	0.007	
100		+20	5	0.002	
100		+30	16	0.006	
100		+40	19	0.007	
100		+50	19	0.007	
100		+60	18	0.007	
100		+70	-15	-0.006	
115	35.00	+20	23	0.009	
85	12.00	+20	-17	-0.007	



LTE Band 12, 16QAM, Channel 23095, Frequency 707.5MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	24.00	+20(Ref)	19	0.027	PASS
100		-40	17	0.024	
100		-30	16	0.023	
100		-20	-3	-0.004	
100		-10	15	0.021	
100		0	-7	-0.010	
100		+10	15	0.021	
100		+20	18	0.025	
100		+30	14	0.020	
100		+40	17	0.024	
100		+50	0	0.000	
100		+60	18	0.025	
100		+70	17	0.024	
115	35.00	+20	-20	-0.028	
85	12.00	+20	-22	-0.031	



LTE Band 17, 16QAM, Channel 23790, Frequency 710.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	24.00	+20(Ref)	-10	-0.014	PASS
100		-40	13	0.018	
100		-30	20	0.028	
100		-20	20	0.028	
100		-10	14	0.020	
100		0	19	0.027	
100		+10	19	0.027	
100		+20	-12	-0.017	
100		+30	17	0.024	
100		+40	15	0.021	
100		+50	5	0.007	
100		+60	15	0.021	
100		+70	13	0.018	
115	35.00	+20	-1	-0.001	
85	12.00	+20	19	0.027	



LTE Band 38, 16QAM, Channel 38000, Frequency 2595.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	24.00	+20(Ref)	18	0.007	PASS
100		-40	15	0.006	
100		-30	13	0.005	
100		-20	18	0.007	
100		-10	14	0.005	
100		0	18	0.007	
100		+10	13	0.005	
100		+20	13	0.005	
100		+30	3	0.001	
100		+40	13	0.005	
100		+50	18	0.007	
100		+60	15	0.006	
100	4.40	+70	3	0.001	
115	35.00	+20	13	0.005	



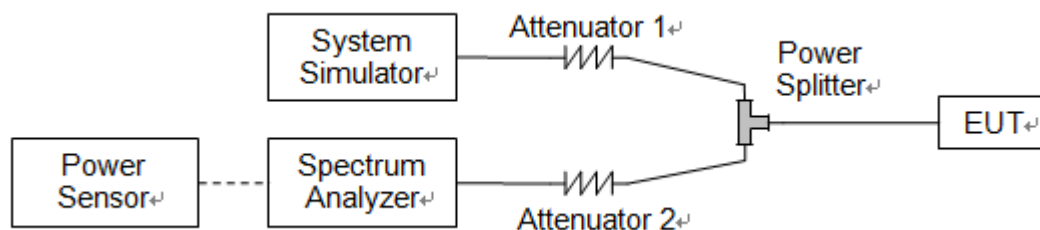
LTE Band 66, 16QAM, Channel 132322, Frequency 1745MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	24.00	+20(Ref)	17	0.010	PASS
100		-40	-7	-0.004	
100		-30	18	0.010	
100		-20	15	0.009	
100		-10	13	0.007	
100		0	13	0.007	
100		+10	18	0.010	
100		+20	-11	-0.006	
100		+30	14	0.008	
100		+40	-12	-0.007	
100		+50	16	0.009	
100		+60	19	0.011	
100		+70	-7	-0.004	
115	35.00	+20	20	0.011	
85	12.00	+20	8	0.005	

2.4. Peak to Average Ratio

2.4.1. Requirement

According to FCC section 24.232(d), 27.50(d) and 27.50(j)(4), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

2.4.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.4.3. Test Procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

2.4.4. Test Result

Record the maximum PAPR level associated with a probability of 0.1%.



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	Peak to Average Radio(dB)	Verdict
B2	1.4	Low	18607	1850.7	QPSK	3.33	PASS
B2	1.4	Low	18607	1850.7	16QAM	4.23	PASS
B2	1.4	Mid	18900	1880	QPSK	4.44	PASS
B2	1.4	Mid	18900	1880	16QAM	5.48	PASS
B2	1.4	High	19193	1909.3	QPSK	4.37	PASS
B2	1.4	High	19193	1909.3	16QAM	4.98	PASS
B2	3	Low	18615	1851.5	QPSK	3.94	PASS
B2	3	Low	18615	1851.5	16QAM	4.83	PASS
B2	3	Mid	18900	1880	QPSK	4.80	PASS
B2	3	Mid	18900	1880	16QAM	5.72	PASS
B2	3	High	19185	1908.5	QPSK	4.45	PASS
B2	3	High	19185	1908.5	16QAM	5.41	PASS
B2	5	Low	18625	1852.5	QPSK	4.62	PASS
B2	5	Low	18625	1852.5	16QAM	5.28	PASS
B2	5	Mid	18900	1880	QPSK	5.12	PASS
B2	5	Mid	18900	1880	16QAM	5.84	PASS
B2	5	High	19175	1907.5	QPSK	4.92	PASS
B2	5	High	19175	1907.5	16QAM	5.66	PASS
B2	10	Low	18650	1855	QPSK	4.67	PASS
B2	10	Low	18650	1855	16QAM	5.44	PASS
B2	10	Mid	18900	1880	QPSK	5.13	PASS
B2	10	Mid	18900	1880	16QAM	5.87	PASS
B2	10	High	19150	1905	QPSK	4.90	PASS
B2	10	High	19150	1905	16QAM	5.66	PASS
B2	15	Low	18675	1857.5	QPSK	4.42	PASS
B2	15	Low	18675	1857.5	16QAM	5.22	PASS
B2	15	Mid	18900	1880	QPSK	4.82	PASS
B2	15	Mid	18900	1880	16QAM	5.57	PASS
B2	15	High	19125	1902.5	QPSK	4.52	PASS
B2	15	High	19125	1902.5	16QAM	5.34	PASS
B2	20	Low	18700	1860	QPSK	4.73	PASS
B2	20	Low	18700	1860	16QAM	5.55	PASS
B2	20	Mid	18900	1880	QPSK	5.05	PASS
B2	20	Mid	18900	1880	16QAM	5.89	PASS
B2	20	High	19100	1900	QPSK	4.66	PASS



REPORT No.: SZ25120216W01

B2	20	High	19100	1900	16QAM	5.43	PASS
B4	1.4	Low	19957	1710.7	QPSK	5.33	PASS
B4	1.4	Low	19957	1710.7	16QAM	6.08	PASS
B4	1.4	Mid	20175	1732.5	QPSK	5.99	PASS
B4	1.4	Mid	20175	1732.5	16QAM	6.86	PASS
B4	1.4	High	20393	1754.3	QPSK	4.79	PASS
B4	1.4	High	20393	1754.3	16QAM	5.48	PASS
B4	3	Low	19965	1711.5	QPSK	5.38	PASS
B4	3	Low	19965	1711.5	16QAM	6.33	PASS
B4	3	Mid	20175	1732.5	QPSK	6.04	PASS
B4	3	Mid	20175	1732.5	16QAM	6.87	PASS
B4	3	High	20385	1753.5	QPSK	4.94	PASS
B4	3	High	20385	1753.5	16QAM	5.75	PASS
B4	5	Low	19975	1712.5	QPSK	5.52	PASS
B4	5	Low	19975	1712.5	16QAM	6.26	PASS
B4	5	Mid	20175	1732.5	QPSK	6.03	PASS
B4	5	Mid	20175	1732.5	16QAM	6.71	PASS
B4	5	High	20375	1752.5	QPSK	5.23	PASS
B4	5	High	20375	1752.5	16QAM	5.96	PASS
B4	10	Low	20000	1715	QPSK	5.69	PASS
B4	10	Low	20000	1715	16QAM	6.35	PASS
B4	10	Mid	20175	1732.5	QPSK	5.97	PASS
B4	10	Mid	20175	1732.5	16QAM	6.63	PASS
B4	10	High	20350	1750	QPSK	5.36	PASS
B4	10	High	20350	1750	16QAM	6.07	PASS
B4	15	Low	20025	1717.5	QPSK	5.83	PASS
B4	15	Low	20025	1717.5	16QAM	6.48	PASS
B4	15	Mid	20175	1732.5	QPSK	5.81	PASS
B4	15	Mid	20175	1732.5	16QAM	6.59	PASS
B4	15	High	20325	1747.5	QPSK	5.28	PASS
B4	15	High	20325	1747.5	16QAM	6.04	PASS
B4	20	Low	20050	1720	QPSK	5.80	PASS
B4	20	Low	20050	1720	16QAM	6.56	PASS
B4	20	Mid	20175	1732.5	QPSK	5.77	PASS
B4	20	Mid	20175	1732.5	16QAM	6.58	PASS
B4	20	High	20300	1745	QPSK	5.48	PASS
B4	20	High	20300	1745	16QAM	6.31	PASS
B66	1.4	Low	131979	1710.7	QPSK	5.46	PASS



REPORT No.: SZ25120216W01

B66	1.4	Low	131979	1710.7	16QAM	6.18	PASS
B66	1.4	Mid	132322	1745	QPSK	5.26	PASS
B66	1.4	Mid	132322	1745	16QAM	5.97	PASS
B66	1.4	High	132665	1779.3	QPSK	5.87	PASS
B66	1.4	High	132665	1779.3	16QAM	6.63	PASS
B66	3	Low	131987	1711.5	QPSK	5.60	PASS
B66	3	Low	131987	1711.5	16QAM	6.35	PASS
B66	3	Mid	132322	1745	QPSK	5.35	PASS
B66	3	Mid	132322	1745	16QAM	6.16	PASS
B66	3	High	132657	1778.5	QPSK	5.99	PASS
B66	3	High	132657	1778.5	16QAM	6.78	PASS
B66	5	Low	131997	1712.5	QPSK	5.65	PASS
B66	5	Low	131997	1712.5	16QAM	6.40	PASS
B66	5	Mid	132322	1745	QPSK	5.66	PASS
B66	5	Mid	132322	1745	16QAM	6.25	PASS
B66	5	High	132647	1777.5	QPSK	5.96	PASS
B66	5	High	132647	1777.5	16QAM	6.65	PASS
B66	10	Low	132022	1715	QPSK	5.80	PASS
B66	10	Low	132022	1715	16QAM	6.48	PASS
B66	10	Mid	132322	1745	QPSK	5.51	PASS
B66	10	Mid	132322	1745	16QAM	6.23	PASS
B66	10	High	132622	1775	QPSK	5.84	PASS
B66	10	High	132622	1775	16QAM	6.54	PASS
B66	15	Low	132047	1717.5	QPSK	5.90	PASS
B66	15	Low	132047	1717.5	16QAM	6.67	PASS
B66	15	Mid	132322	1745	QPSK	5.29	PASS
B66	15	Mid	132322	1745	16QAM	6.10	PASS
B66	15	High	132597	1772.5	QPSK	5.74	PASS
B66	15	High	132597	1772.5	16QAM	6.43	PASS
B66	20	Low	132072	1720	QPSK	5.87	PASS
B66	20	Low	132072	1720	16QAM	6.73	PASS
B66	20	Mid	132322	1745	QPSK	5.44	PASS
B66	20	Mid	132322	1745	16QAM	6.24	PASS
B66	20	High	132572	1770	QPSK	5.66	PASS
B66	20	High	132572	1770	16QAM	6.41	PASS



B2 / 1.4MHz / Low CH / QPSK



B2 / 1.4MHz / Low CH / 16QAM



B2 / 1.4MHz / Mid CH / QPSK



B2 / 1.4MHz / Mid CH / 16QAM



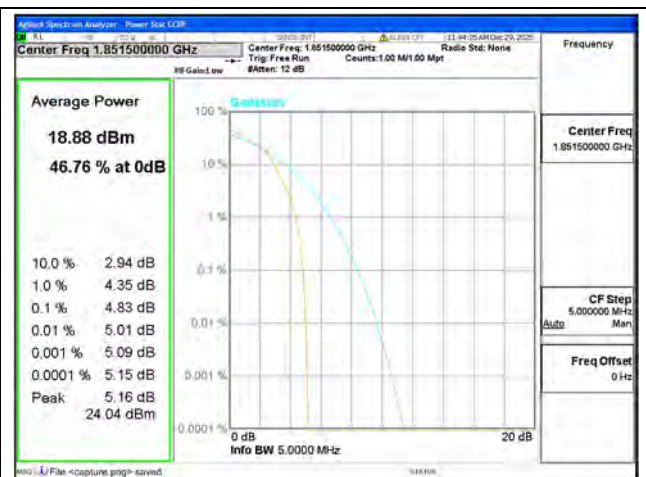
B2 / 1.4MHz / High CH / QPSK



B2 / 1.4MHz / High CH / 16QAM



B2 / 3MHz / Low CH / QPSK



B2 / 3MHz / Low CH / 16QAM



B2 / 3MHz / Mid CH / QPSK



B2 / 3MHz / Mid CH / 16QAM



B2 / 3MHz / High CH / QPSK



B2 / 3MHz / High CH / 16QAM



B2 / 5MHz / Low CH / QPSK



B2 / 5MHz / Low CH / 16QAM



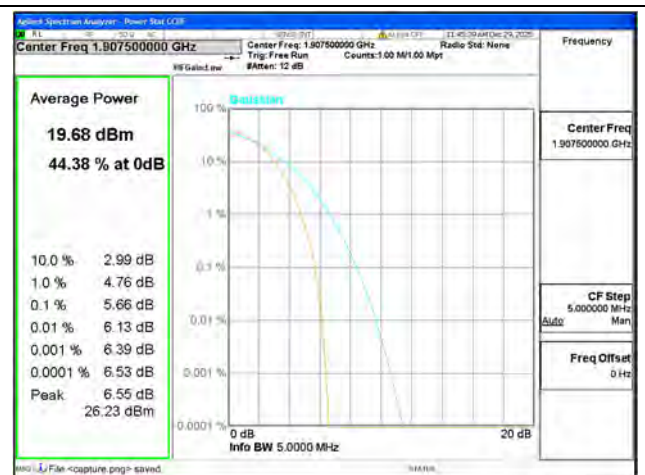
B2 / 5MHz / Mid CH / QPSK



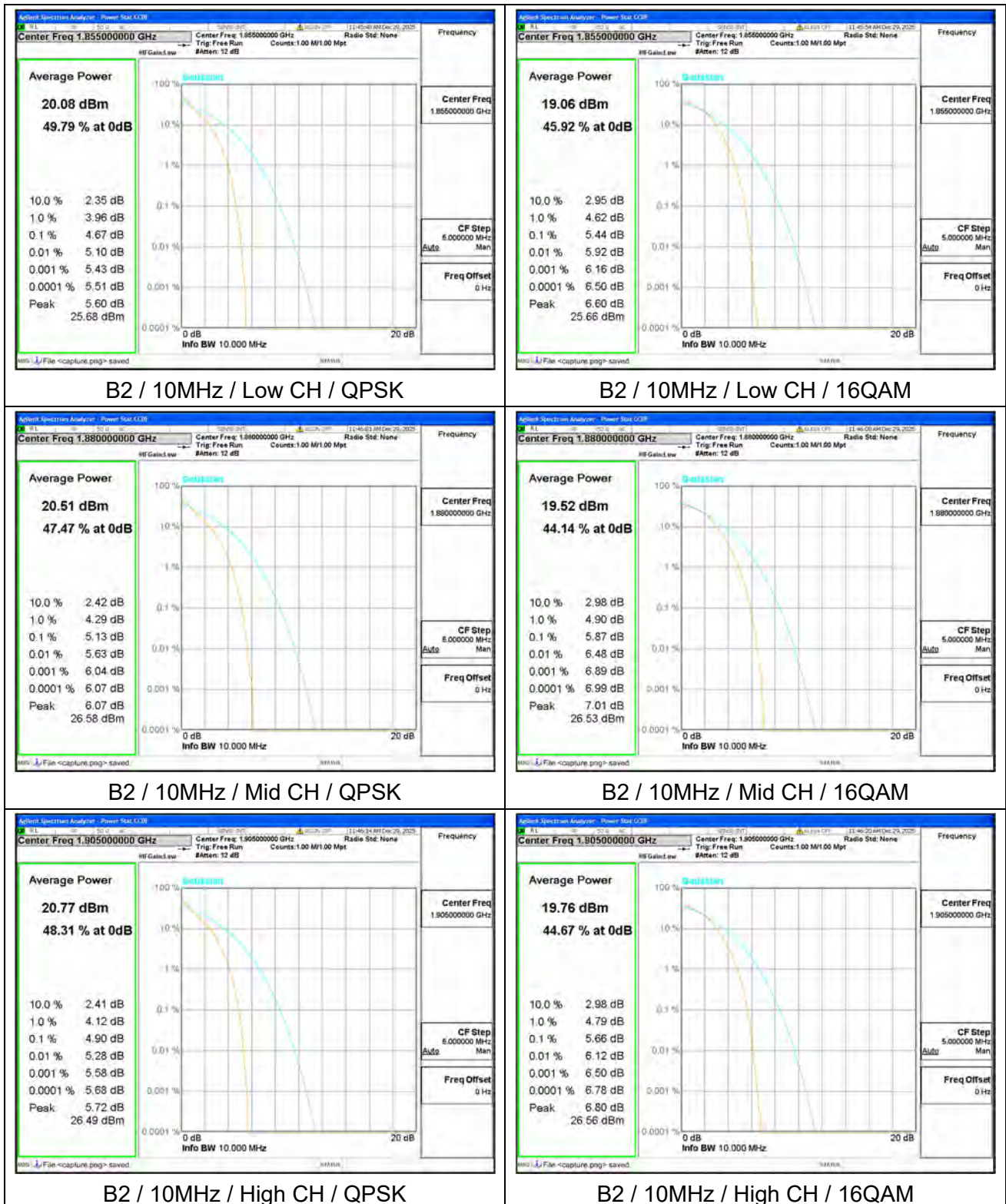
B2 / 5MHz / Mid CH / 16QAM



B2 / 5MHz / High CH / QPSK

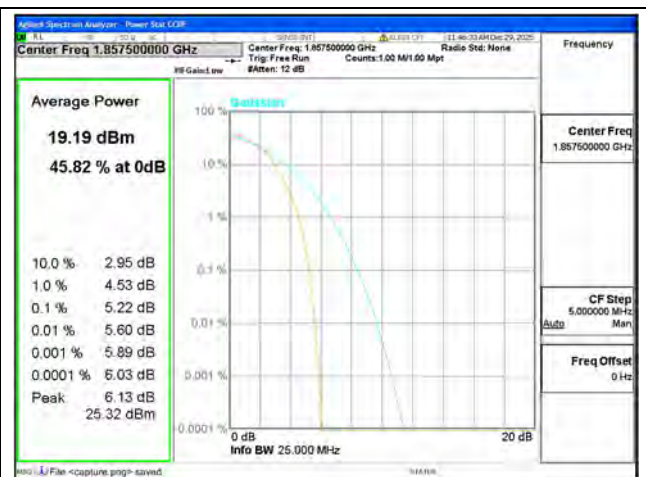


B2 / 5MHz / High CH / 16QAM

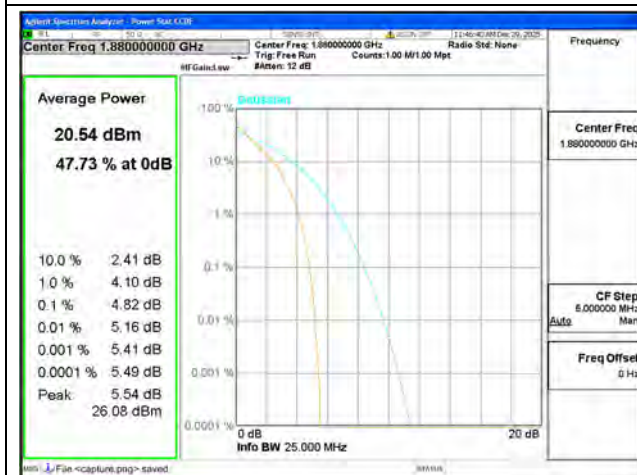




B2 / 15MHz / Low CH / QPSK



B2 / 15MHz / Low CH / 16QAM



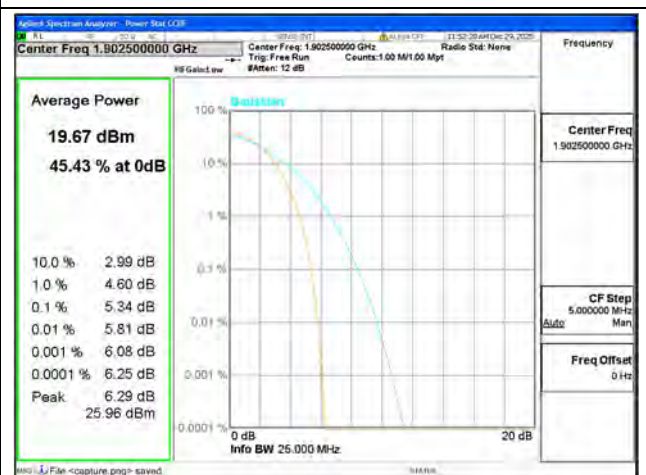
B2 / 15MHz / Mid CH / QPSK



B2 / 15MHz / Mid CH / 16QAM



B2 / 15MHz / High CH / QPSK



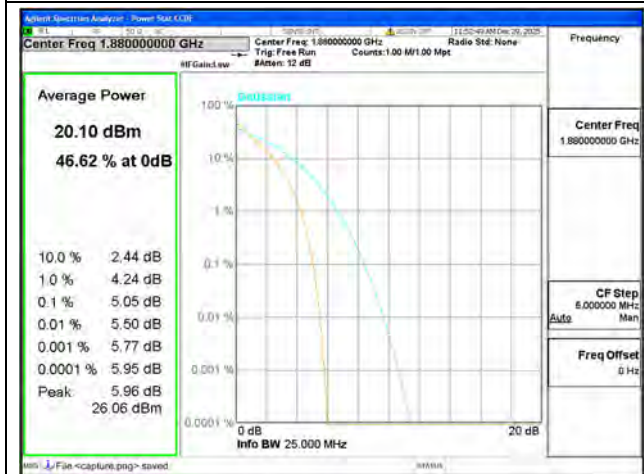
B2 / 15MHz / High CH / 16QAM



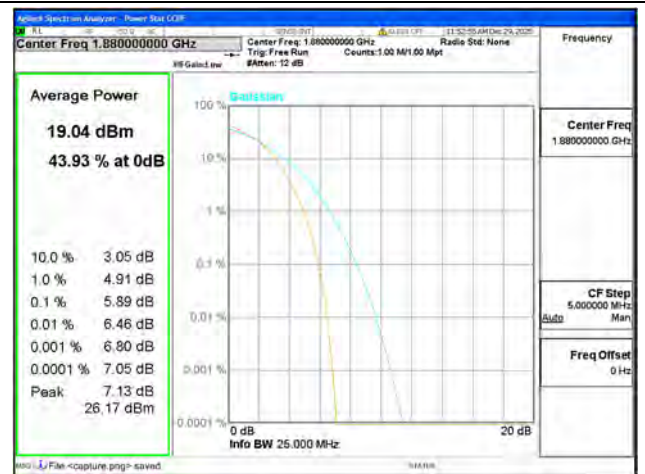
B2 / 20MHz / Low CH / QPSK



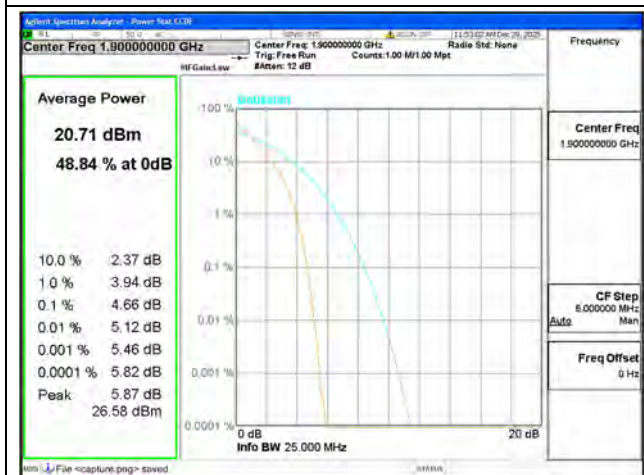
B2 / 20MHz / Low CH / 16QAM



B2 / 20MHz / Mid CH / QPSK



B2 / 20MHz / Mid CH / 16QAM



B2 / 20MHz / High CH / QPSK



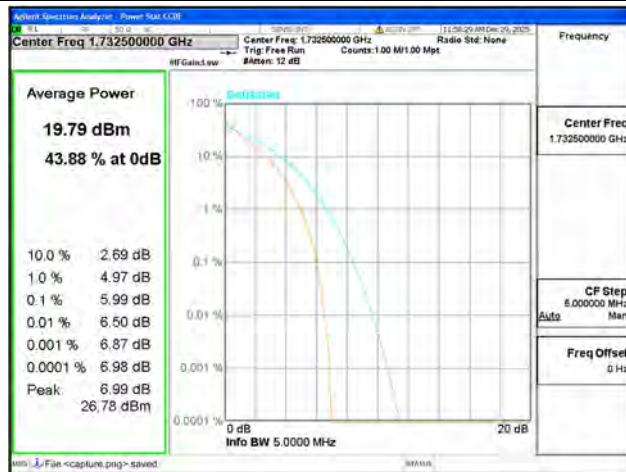
B2 / 20MHz / High CH / 16QAM



B4 / 1.4MHz / Low CH / QPSK



B4 / 1.4MHz / Low CH / 16QAM



B4 / 1.4MHz / Mid CH / QPSK



B4 / 1.4MHz / Mid CH / 16QAM



B4 / 1.4MHz / High CH / QPSK



B4 / 1.4MHz / High CH / 16QAM



B4 / 3MHz / Low CH / QPSK



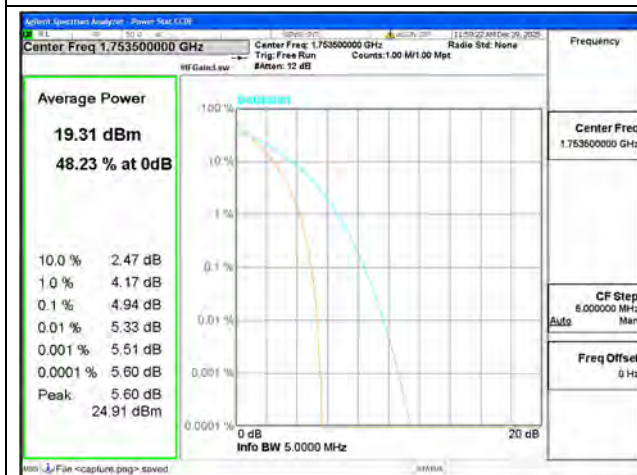
B4 / 3MHz / Low CH / 16QAM



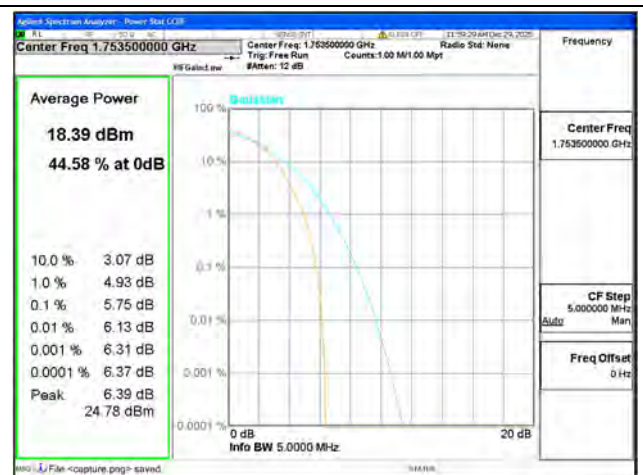
B4 / 3MHz / Mid CH / QPSK



B4 / 3MHz / Mid CH / 16QAM



B4 / 3MHz / High CH / QPSK



B4 / 3MHz / High CH / 16QAM



B4 / 5MHz / Low CH / QPSK



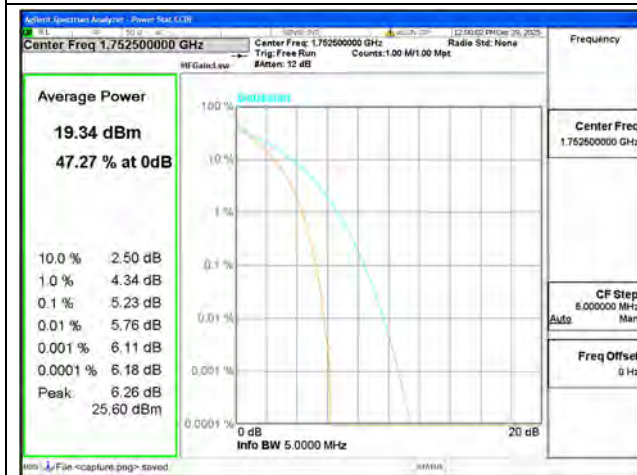
B4 / 5MHz / Low CH / 16QAM



B4 / 5MHz / Mid CH / QPSK



B4 / 5MHz / Mid CH / 16QAM



B4 / 5MHz / High CH / QPSK



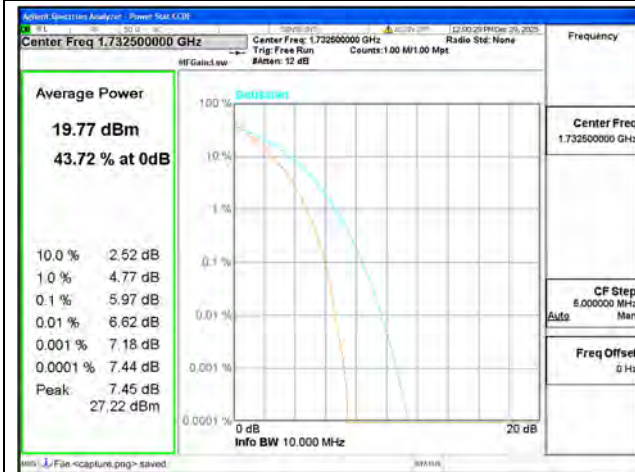
B4 / 5MHz / High CH / 16QAM



B4 / 10MHz / Low CH / QPSK



B4 / 10MHz / Low CH / 16QAM



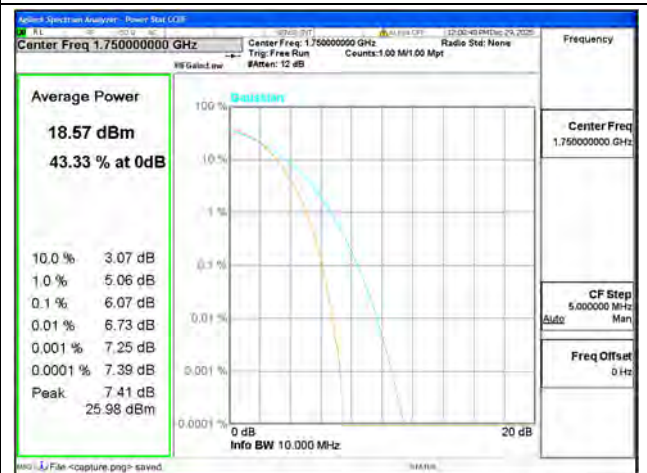
B4 / 10MHz / Mid CH / QPSK



B4 / 10MHz / Mid CH / 16QAM



B4 / 10MHz / High CH / QPSK



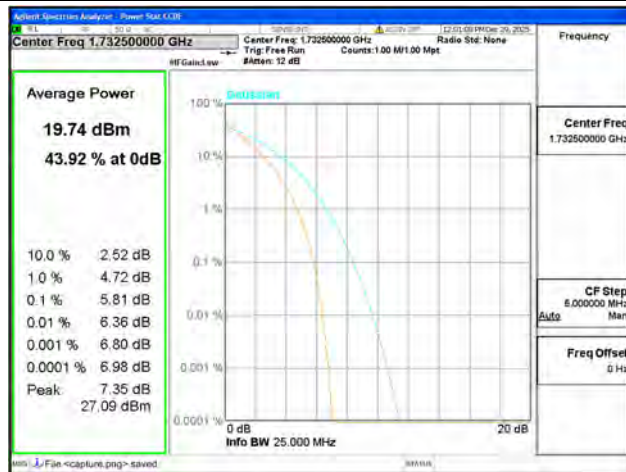
B4 / 10MHz / High CH / 16QAM



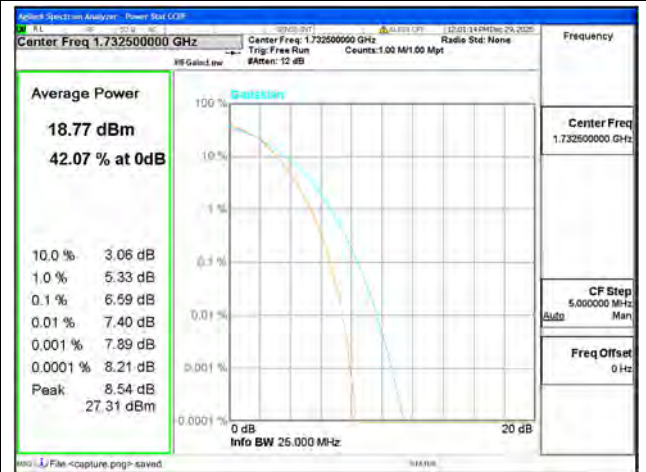
B4 / 15MHz / Low CH / QPSK



B4 / 15MHz / Low CH / 16QAM



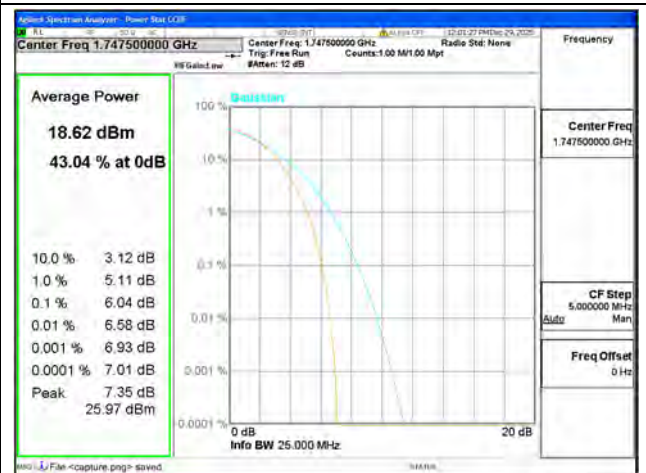
B4 / 15MHz / Mid CH / QPSK



B4 / 15MHz / Mid CH / 16QAM



B4 / 15MHz / High CH / QPSK



B4 / 15MHz / High CH / 16QAM



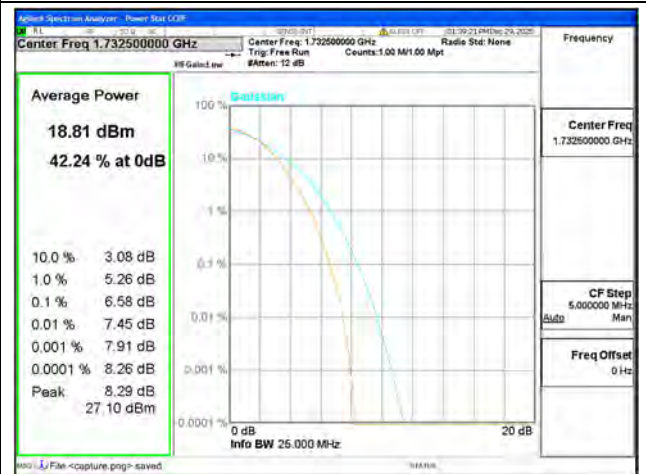
B4 / 20MHz / Low CH / QPSK



B4 / 20MHz / Low CH / 16QAM



B4 / 20MHz / Mid CH / QPSK



B4 / 20MHz / Mid CH / 16QAM



B4 / 20MHz / High CH / QPSK



B4 / 20MHz / High CH / 16QAM



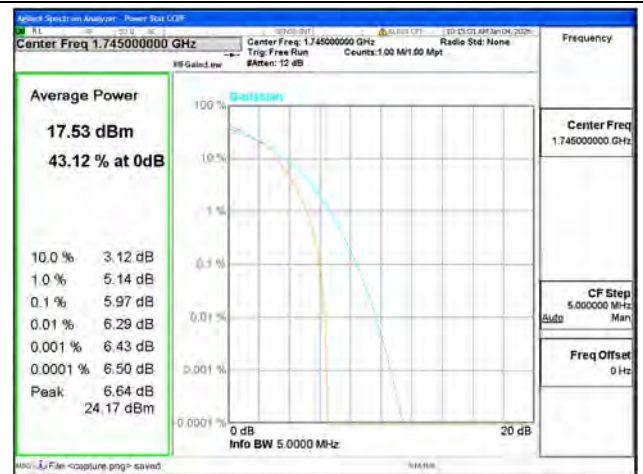
B66 / 1.4MHz / Low CH / QPSK



B66 / 1.4MHz / Low CH / 16QAM



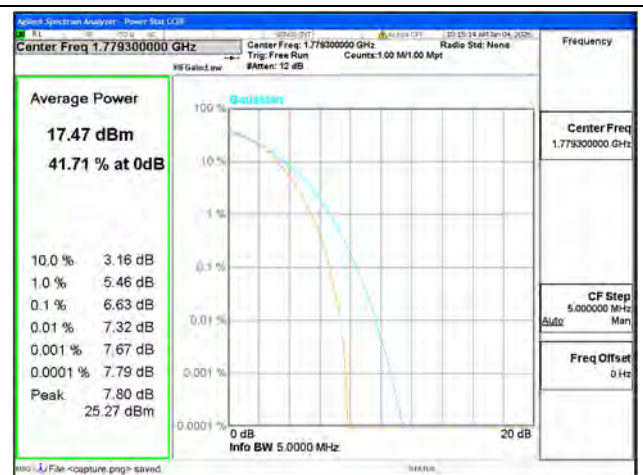
B66 / 1.4MHz / Mid CH / QPSK



B66 / 1.4MHz / Mid CH / 16QAM



B66 / 1.4MHz / High CH / QPSK



B66 / 1.4MHz / High CH / 16QAM



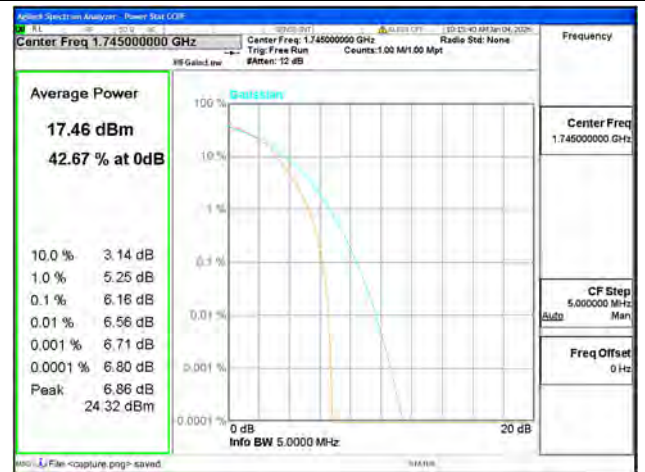
B66 / 3MHz / Low CH / QPSK



B66 / 3MHz / Low CH / 16QAM



B66 / 3MHz / Mid CH / QPSK



B66 / 3MHz / Mid CH / 16QAM



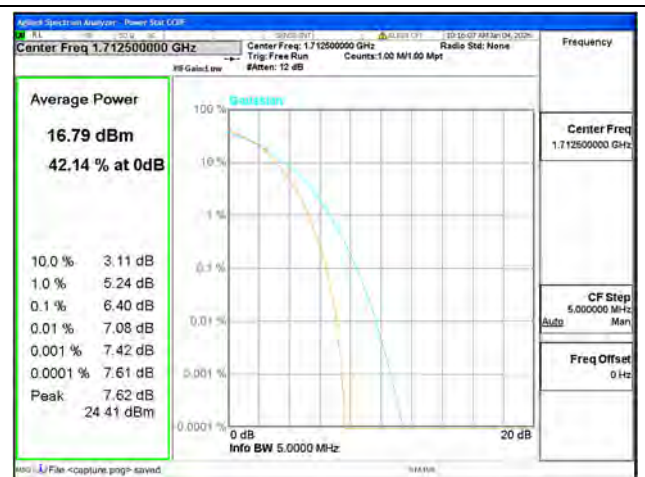
B66 / 3MHz / High CH / QPSK



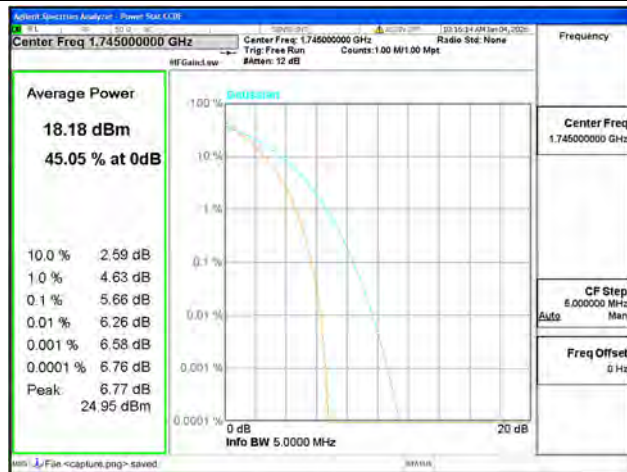
B66 / 3MHz / High CH / 16QAM



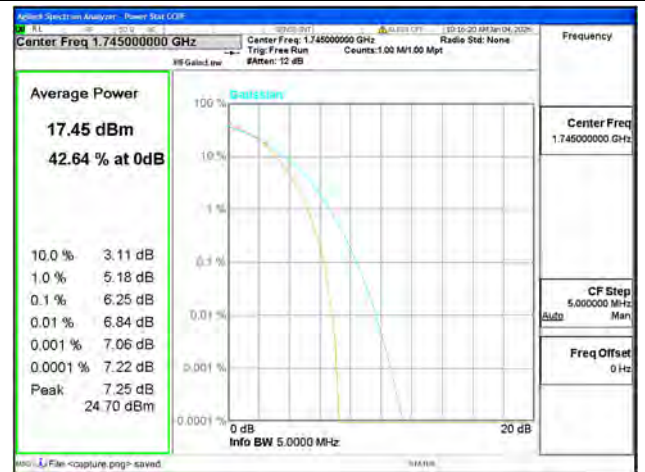
B66 / 5MHz / Low CH / QPSK



B66 / 5MHz / Low CH / 16QAM



B66 / 5MHz / Mid CH / QPSK



B66 / 5MHz / Mid CH / 16QAM



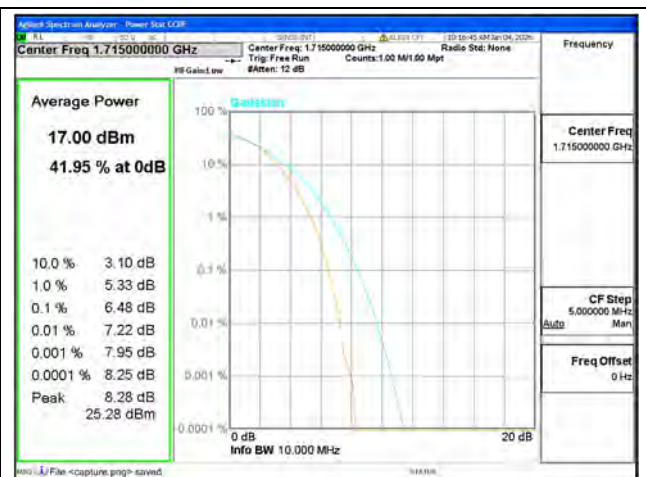
B66 / 5MHz / High CH / QPSK



B66 / 5MHz / High CH / 16QAM



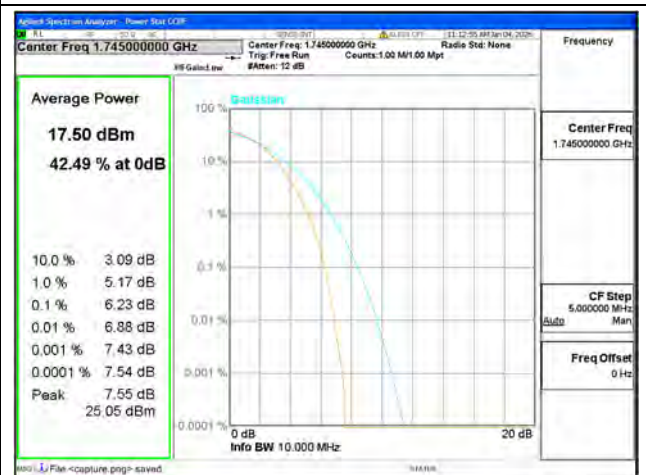
B66 / 10MHz / Low CH / QPSK



B66 / 10MHz / Low CH / 16QAM



B66 / 10MHz / Mid CH / QPSK



B66 / 10MHz / Mid CH / 16QAM



B66 / 10MHz / High CH / QPSK



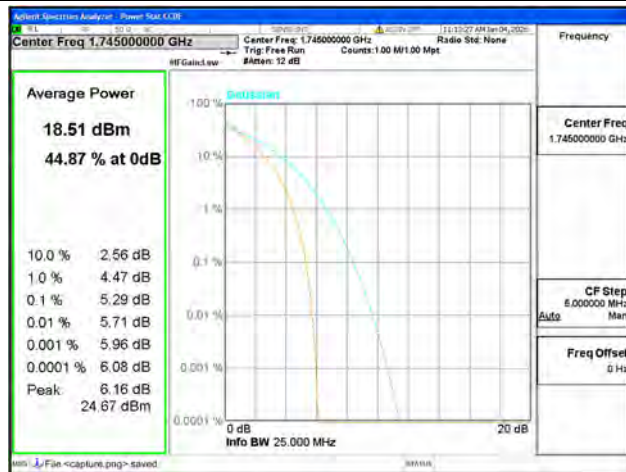
B66 / 10MHz / High CH / 16QAM



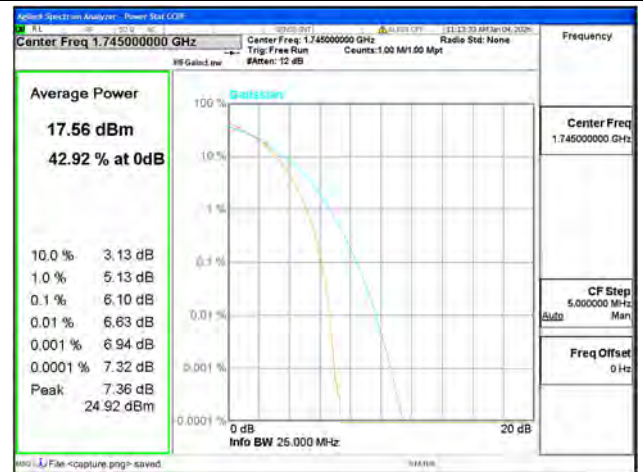
B66 / 15MHz / Low CH / QPSK



B66 / 15MHz / Low CH / 16QAM



B66 / 15MHz / Mid CH / QPSK



B66 / 15MHz / Mid CH / 16QAM



B66 / 15MHz / High CH / QPSK



B66 / 15MHz / High CH / 16QAM



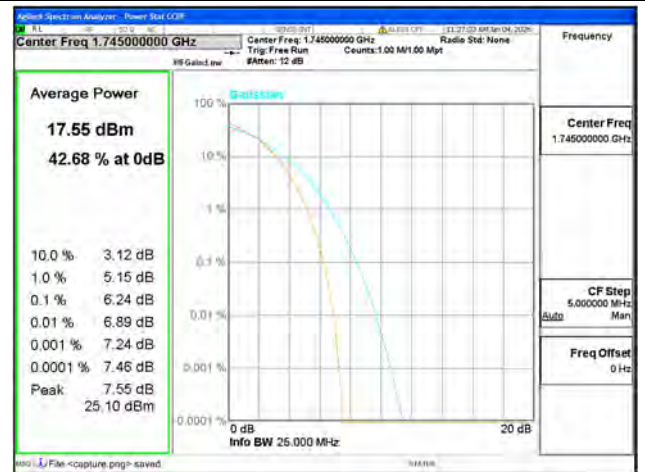
B66 / 20MHz / Low CH / QPSK



B66 / 20MHz / Low CH / 16QAM



B66 / 20MHz / Mid CH / QPSK



B66 / 20MHz / Mid CH / 16QAM



B66 / 20MHz / High CH / QPSK



B66 / 20MHz / High CH / 16QAM

2.5. Conducted Spurious Emissions

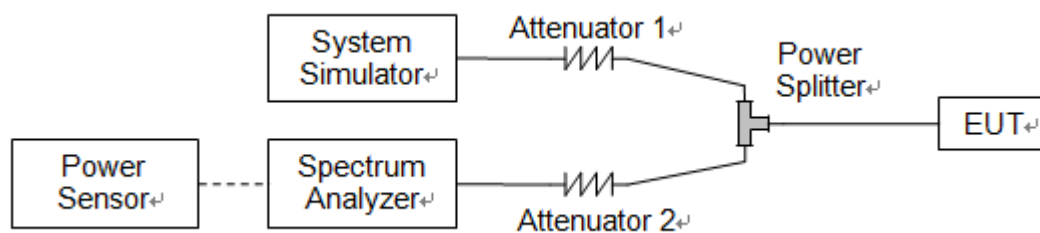
2.5.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. This calculated to be -13dBm.

Additional requirement for LTE Band 7/41:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB. This calculated to be -25dBm.

2.5.2. Test Description

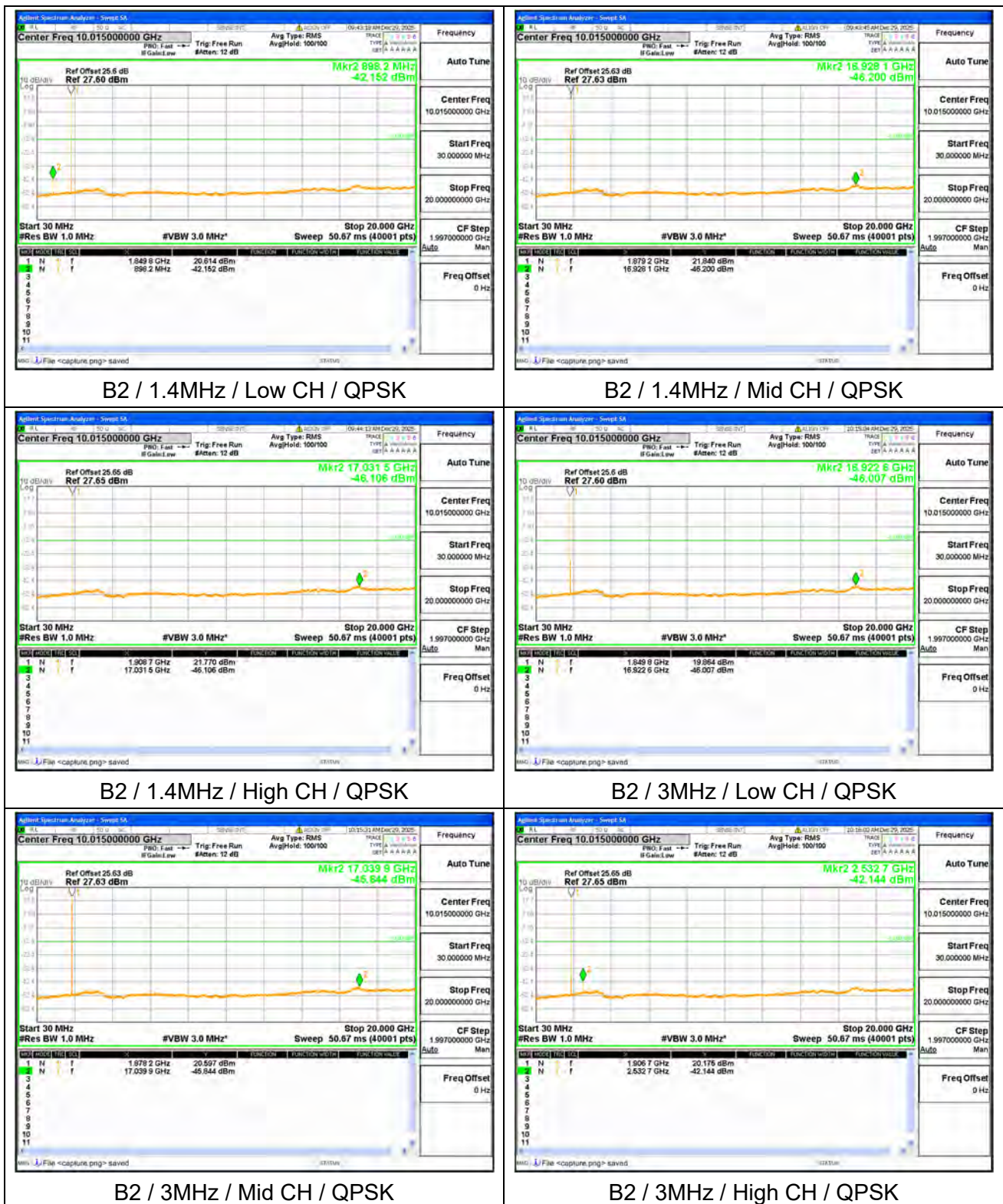


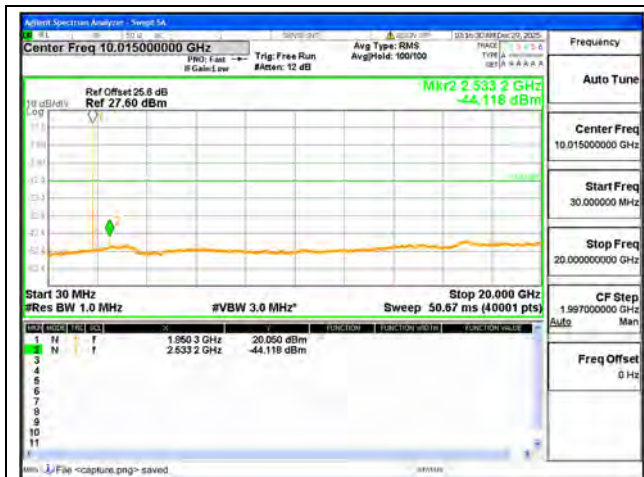
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.5.3. Test Procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.5.4. Test Result





B2 / 5MHz / Low CH / QPSK



B2 / 5MHz / Mid CH / QPSK



B2 / 5MHz / High CH / QPSK



B2 / 10MHz / Low CH / QPSK



B2 / 10MHz / Mid CH / QPSK



B2 / 10MHz / High CH / QPSK