



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37825		38000		38175	
Frequency (MHz)				2577.5		2595		2612.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	24.53	0.284	24.71	0.296	24.61	0.289
15	QPSK	1	37	24.44	0.278	24.42	0.277	24.54	0.284
15	QPSK	1	74	24.65	0.292	24.65	0.292	24.41	0.276
15	QPSK	36	0	23.69	0.234	23.69	0.234	23.72	0.236
15	QPSK	36	20	23.67	0.233	23.69	0.234	23.7	0.234
15	QPSK	36	39	23.61	0.230	23.63	0.231	23.66	0.232
15	QPSK	75	0	23.66	0.232	23.65	0.232	23.69	0.234
15	16QAM	1	0	23.32	0.215	23.25	0.211	23.19	0.208
15	16QAM	1	37	23.39	0.218	23.33	0.215	23.39	0.218
15	16QAM	1	74	23.21	0.209	23.22	0.210	23.31	0.214
15	16QAM	36	0	23.22	0.210	23.17	0.207	23.27	0.212
15	16QAM	36	20	23.18	0.208	23.16	0.207	23.18	0.208
15	16QAM	36	39	23.19	0.208	23.13	0.206	23.1	0.204
15	16QAM	75	0	23.18	0.208	23.16	0.207	23.25	0.211
15	64QAM	1	0	22.36	0.172	22.32	0.171	22.42	0.175
15	64QAM	1	37	22.28	0.169	22.28	0.169	22.33	0.171
15	64QAM	1	74	22.45	0.176	22.36	0.172	22.35	0.172
15	64QAM	36	0	22.26	0.168	22.21	0.166	22.44	0.175
15	64QAM	36	20	22.19	0.166	22.22	0.167	22.23	0.167
15	64QAM	36	39	22.2	0.166	22.26	0.168	22.31	0.170
15	64QAM	75	0	22.18	0.165	22.15	0.164	22.4	0.174



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37800		38000		38200	
Frequency (MHz)				2575		2595		2615	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	24.46	0.279	24.75	0.299	24.73	0.297
10	QPSK	1	25	24.64	0.291	24.54	0.284	24.41	0.276
10	QPSK	1	49	24.67	0.293	24.73	0.297	24.54	0.284
10	QPSK	25	0	23.67	0.233	23.73	0.236	23.83	0.242
10	QPSK	25	12	23.68	0.233	23.73	0.236	23.74	0.237
10	QPSK	25	25	23.74	0.237	23.61	0.230	23.76	0.238
10	QPSK	50	0	23.68	0.233	23.74	0.237	23.85	0.243
10	16QAM	1	0	23.37	0.217	23.35	0.216	23.39	0.218
10	16QAM	1	25	23.53	0.225	23.48	0.223	23.56	0.227
10	16QAM	1	49	23.4	0.219	23.33	0.215	23.42	0.220
10	16QAM	25	0	23.19	0.208	23.35	0.216	23.41	0.219
10	16QAM	25	12	23.27	0.212	23.35	0.216	23.36	0.217
10	16QAM	25	25	23.37	0.217	23.28	0.213	23.31	0.214
10	16QAM	50	0	23.29	0.213	23.31	0.214	23.34	0.216
10	64QAM	1	0	22.32	0.171	22.2	0.166	22.26	0.168
10	64QAM	1	25	22.4	0.174	22.37	0.173	22.37	0.173
10	64QAM	1	49	22.24	0.167	22.22	0.167	22.23	0.167
10	64QAM	25	0	22.41	0.174	22.43	0.175	22.49	0.177
10	64QAM	25	12	22.38	0.173	22.39	0.173	22.45	0.176
10	64QAM	25	25	22.38	0.173	22.32	0.171	22.43	0.175
10	64QAM	50	0	22.3	0.170	22.31	0.170	22.4	0.174



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37775		38000		38225	
Frequency (MHz)				2572.5		2595		2617.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	24.63	0.290	24.7	0.295	24.32	0.270
5	QPSK	1	12	24.41	0.276	24.61	0.289	24.58	0.287
5	QPSK	1	24	24.59	0.288	24.57	0.286	24.65	0.292
5	QPSK	12	0	23.71	0.235	23.69	0.234	23.77	0.238
5	QPSK	12	7	23.76	0.238	23.72	0.236	23.83	0.242
5	QPSK	12	13	23.7	0.234	23.68	0.233	23.78	0.239
5	QPSK	25	0	23.67	0.233	23.6	0.229	23.68	0.233
5	16QAM	1	0	23.37	0.217	23.28	0.213	23.27	0.212
5	16QAM	1	12	23.46	0.222	23.4	0.219	23.44	0.221
5	16QAM	1	24	23.27	0.212	23.29	0.213	23.34	0.216
5	16QAM	12	0	23.24	0.211	23.22	0.210	23.28	0.213
5	16QAM	12	7	23.34	0.216	23.19	0.208	23.32	0.215
5	16QAM	12	13	23.17	0.207	23.21	0.209	23.29	0.213
5	16QAM	25	0	23.25	0.211	23.27	0.212	23.34	0.216
5	64QAM	1	0	22.27	0.169	22.18	0.165	22.24	0.167
5	64QAM	1	12	22.38	0.173	22.32	0.171	22.41	0.174
5	64QAM	1	24	22.17	0.165	22.24	0.167	22.28	0.169
5	64QAM	12	0	22.37	0.173	22.23	0.167	22.39	0.173
5	64QAM	12	7	22.33	0.171	22.28	0.169	22.45	0.176
5	64QAM	12	13	22.22	0.167	22.2	0.166	22.43	0.175
5	64QAM	25	0	22.42	0.175	22.36	0.172	22.36	0.172



LTE Band 40, Block A				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		38750		/	
Frequency (MHz)				/		2310		/	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	/	/	23.92	0.247	/	/
10	QPSK	1	25	/	/	23.90	0.245	/	/
10	QPSK	1	49	/	/	23.87	0.244	/	/
10	QPSK	25	0	/	/	23.14	0.206	/	/
10	QPSK	25	12	/	/	23.05	0.202	/	/
10	QPSK	25	25	/	/	23.10	0.204	/	/
10	QPSK	50	0	/	/	23.11	0.205	/	/
10	16QAM	1	0	/	/	23.14	0.206	/	/
10	16QAM	1	25	/	/	23.15	0.207	/	/
10	16QAM	1	49	/	/	23.16	0.207	/	/
10	16QAM	25	0	/	/	23.22	0.210	/	/
10	16QAM	25	12	/	/	23.16	0.207	/	/
10	16QAM	25	25	/	/	23.35	0.216	/	/
10	16QAM	50	0	/	/	23.19	0.208	/	/
10	64QAM	1	0	/	/	22.33	0.171	/	/
10	64QAM	1	25	/	/	22.26	0.168	/	/
10	64QAM	1	49	/	/	22.40	0.174	/	/
10	64QAM	25	0	/	/	22.33	0.171	/	/
10	64QAM	25	12	/	/	22.24	0.167	/	/
10	64QAM	25	25	/	/	22.25	0.168	/	/
10	64QAM	50	0	/	/	22.34	0.171	/	/



LTE Band 40, Block A				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				38725		38750		38775	
Frequency (MHz)				2307.5		2310		2312.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.77	0.238	23.89	0.245	23.74	0.237
5	QPSK	1	12	23.81	0.240	23.81	0.240	23.84	0.242
5	QPSK	1	24	23.84	0.242	23.74	0.237	23.73	0.236
5	QPSK	12	0	23.12	0.205	23.10	0.204	22.99	0.199
5	QPSK	12	7	23.13	0.206	23.10	0.204	23.09	0.204
5	QPSK	12	13	23.02	0.200	23.13	0.206	23.06	0.202
5	QPSK	25	0	23.06	0.202	23.10	0.204	23.13	0.206
5	16QAM	1	0	23.14	0.206	23.14	0.206	23.18	0.208
5	16QAM	1	12	23.19	0.208	23.28	0.213	23.25	0.211
5	16QAM	1	24	23.15	0.207	23.16	0.207	23.09	0.204
5	16QAM	12	0	23.06	0.202	23.00	0.200	22.91	0.195
5	16QAM	12	7	23.10	0.204	22.99	0.199	23.05	0.202
5	16QAM	12	13	23.04	0.201	22.99	0.199	23.09	0.204
5	16QAM	25	0	23.08	0.203	23.00	0.200	23.07	0.203
5	64QAM	1	0	22.20	0.166	22.27	0.169	22.31	0.170
5	64QAM	1	12	22.20	0.166	22.27	0.169	22.24	0.167
5	64QAM	1	24	22.20	0.166	22.27	0.169	22.36	0.172
5	64QAM	12	0	22.28	0.169	22.31	0.170	22.30	0.170
5	64QAM	12	7	22.27	0.169	22.31	0.170	22.35	0.172
5	64QAM	12	13	22.31	0.170	22.28	0.169	22.26	0.168
5	64QAM	25	0	22.11	0.163	22.20	0.166	22.28	0.169



LTE Band 40, Block B				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		39200		/	
Frequency (MHz)				/		2355		/	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	/	/	23.93	0.247	/	/
10	QPSK	1	25	/	/	23.90	0.245	/	/
10	QPSK	1	49	/	/	23.89	0.245	/	/
10	QPSK	25	0	/	/	23.15	0.207	/	/
10	QPSK	25	12	/	/	23.05	0.202	/	/
10	QPSK	25	25	/	/	23.14	0.206	/	/
10	QPSK	50	0	/	/	23.01	0.200	/	/
10	16QAM	1	0	/	/	23.13	0.206	/	/
10	16QAM	1	25	/	/	23.23	0.210	/	/
10	16QAM	1	49	/	/	23.27	0.212	/	/
10	16QAM	25	0	/	/	23.14	0.206	/	/
10	16QAM	25	12	/	/	23.27	0.212	/	/
10	16QAM	25	25	/	/	23.30	0.214	/	/
10	16QAM	50	0	/	/	23.18	0.208	/	/
10	64QAM	1	0	/	/	22.33	0.171	/	/
10	64QAM	1	25	/	/	22.25	0.168	/	/
10	64QAM	1	49	/	/	22.24	0.167	/	/
10	64QAM	25	0	/	/	22.34	0.171	/	/
10	64QAM	25	12	/	/	22.21	0.166	/	/
10	64QAM	25	25	/	/	22.26	0.168	/	/
10	64QAM	50	0	/	/	22.27	0.169	/	/



LTE Band 40, Block B				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39175		39200		39225	
Frequency (MHz)				2352.5		2355		2357.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.82	0.241	23.85	0.243	23.77	0.238
5	QPSK	1	12	23.85	0.243	23.81	0.240	23.86	0.243
5	QPSK	1	24	23.59	0.229	23.62	0.230	23.63	0.231
5	QPSK	12	0	22.97	0.198	22.85	0.193	22.96	0.198
5	QPSK	12	7	23.07	0.203	22.94	0.197	22.95	0.197
5	QPSK	12	13	22.92	0.196	22.94	0.197	23.15	0.207
5	QPSK	25	0	23.20	0.209	23.26	0.212	23.32	0.215
5	16QAM	1	0	23.15	0.207	23.22	0.210	23.10	0.204
5	16QAM	1	12	23.25	0.211	23.22	0.210	23.28	0.213
5	16QAM	1	24	23.14	0.206	23.15	0.207	23.14	0.206
5	16QAM	12	0	23.04	0.201	22.99	0.199	23.03	0.201
5	16QAM	12	7	23.03	0.201	23.13	0.206	23.11	0.205
5	16QAM	12	13	23.06	0.202	22.97	0.198	23.06	0.202
5	16QAM	25	0	23.12	0.205	23.12	0.205	23.03	0.201
5	64QAM	1	0	22.12	0.163	22.04	0.160	21.96	0.157
5	64QAM	1	12	22.13	0.163	22.12	0.163	22.06	0.161
5	64QAM	1	24	21.98	0.158	21.94	0.156	22.01	0.159
5	64QAM	12	0	22.09	0.162	22.03	0.160	22.01	0.159
5	64QAM	12	7	22.09	0.162	22.13	0.163	22.06	0.161
5	64QAM	12	13	22.08	0.161	21.98	0.158	21.96	0.157
5	64QAM	25	0	22.07	0.161	22.06	0.161	22.08	0.161



LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				40140		40640		41140	
Frequency (MHz)				2545		2595		2645	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	23.87	0.244	24.07	0.255	23.92	0.247
20	QPSK	1	49	23.89	0.245	23.79	0.239	23.84	0.242
20	QPSK	1	99	23.92	0.247	23.88	0.244	23.89	0.245
20	QPSK	50	0	23.23	0.210	23.36	0.217	23.32	0.215
20	QPSK	50	24	23.24	0.211	23.26	0.212	23.29	0.213
20	QPSK	50	50	23.26	0.212	23.16	0.207	23.21	0.209
20	QPSK	100	0	23.29	0.213	23.25	0.211	23.26	0.212
20	16QAM	1	0	22.64	0.184	22.59	0.182	22.64	0.184
20	16QAM	1	49	22.98	0.199	22.83	0.192	22.9	0.195
20	16QAM	1	99	22.58	0.181	22.5	0.178	22.61	0.182
20	16QAM	50	0	22.11	0.163	22.07	0.161	22.16	0.164
20	16QAM	50	24	22.13	0.163	22.14	0.164	22.26	0.168
20	16QAM	50	50	22.14	0.164	22.03	0.160	22.11	0.163
20	16QAM	100	0	22.13	0.163	22.05	0.160	22.17	0.165
20	64QAM	1	0	21.42	0.139	21.47	0.140	21.49	0.141
20	64QAM	1	49	21.8	0.151	21.75	0.150	21.84	0.153
20	64QAM	1	99	21.5	0.141	21.47	0.140	21.51	0.142
20	64QAM	50	0	21.23	0.133	21.34	0.136	21.35	0.136
20	64QAM	50	24	21.34	0.136	21.33	0.136	21.35	0.136
20	64QAM	50	50	21.32	0.136	21.16	0.131	21.36	0.137
20	64QAM	100	0	21.33	0.136	21.28	0.134	21.33	0.136



LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				40115		40640		41165	
Frequency (MHz)				2542.5		2595		2647.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	23.70	0.234	23.51	0.224	23.56	0.227
15	QPSK	1	37	23.97	0.249	23.88	0.244	24.02	0.252
15	QPSK	1	74	23.69	0.234	23.55	0.226	23.66	0.232
15	QPSK	36	0	23.44	0.221	23.37	0.217	23.51	0.224
15	QPSK	36	20	23.47	0.222	23.41	0.219	23.49	0.223
15	QPSK	36	39	23.47	0.222	23.42	0.220	23.46	0.222
15	QPSK	75	0	23.42	0.220	23.4	0.219	23.57	0.228
15	16QAM	1	0	22.61	0.182	22.48	0.177	22.55	0.180
15	16QAM	1	37	23.02	0.200	22.85	0.193	22.99	0.199
15	16QAM	1	74	22.64	0.184	22.46	0.176	22.63	0.183
15	16QAM	36	0	22.30	0.170	22.31	0.170	22.47	0.177
15	16QAM	36	20	22.30	0.170	22.31	0.170	22.35	0.172
15	16QAM	36	39	22.37	0.173	22.24	0.167	22.31	0.170
15	16QAM	75	0	22.38	0.173	22.29	0.169	22.39	0.173
15	64QAM	1	0	21.53	0.142	21.43	0.139	21.44	0.139
15	64QAM	1	37	21.85	0.153	21.84	0.153	21.85	0.153
15	64QAM	1	74	21.55	0.143	21.45	0.140	21.54	0.143
15	64QAM	36	0	21.46	0.140	21.44	0.139	21.55	0.143
15	64QAM	36	20	21.52	0.142	21.47	0.140	21.58	0.144
15	64QAM	36	39	21.57	0.144	21.37	0.137	21.56	0.143
15	64QAM	75	0	21.45	0.140	21.48	0.141	21.57	0.144



LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				40090		40640		41190	
Frequency (MHz)				2540		2595		2650	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	23.71	0.235	23.5	0.224	23.6	0.229
10	QPSK	1	25	23.96	0.249	23.95	0.248	23.91	0.246
10	QPSK	1	49	23.59	0.229	23.59	0.229	23.65	0.232
10	QPSK	25	0	23.41	0.219	23.42	0.220	23.47	0.222
10	QPSK	25	12	23.43	0.220	23.41	0.219	23.45	0.221
10	QPSK	25	25	23.46	0.222	23.29	0.213	23.49	0.223
10	QPSK	50	0	23.52	0.225	23.42	0.220	23.5	0.224
10	16QAM	1	0	22.65	0.184	22.54	0.179	22.59	0.182
10	16QAM	1	25	22.56	0.180	22.47	0.177	22.55	0.180
10	16QAM	1	49	22.24	0.167	22.13	0.163	22.23	0.167
10	16QAM	25	0	22.16	0.164	22.17	0.165	22.2	0.166
10	16QAM	25	12	22.26	0.168	22.11	0.163	22.12	0.163
10	16QAM	25	25	22.52	0.179	22.42	0.175	22.49	0.177
10	16QAM	50	0	22.52	0.179	22.47	0.177	22.58	0.181
10	64QAM	1	0	21.49	0.141	21.43	0.139	21.48	0.141
10	64QAM	1	25	21.84	0.153	21.82	0.152	21.8	0.151
10	64QAM	1	49	21.43	0.139	21.44	0.139	21.53	0.142
10	64QAM	25	0	21.52	0.142	21.53	0.142	21.56	0.143
10	64QAM	25	12	21.55	0.143	21.42	0.139	21.58	0.144
10	64QAM	25	25	21.52	0.142	21.36	0.137	21.56	0.143
10	64QAM	50	0	21.58	0.144	21.42	0.139	21.56	0.143



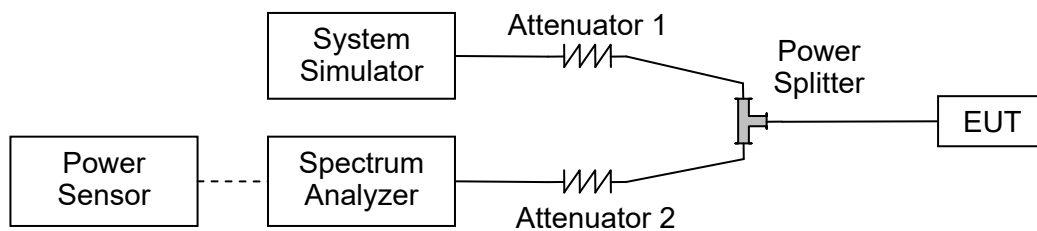
LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				40065		40640		41215	
Frequency (MHz)				2537.5		2595		2652.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.62	0.230	23.63	0.231	23.64	0.231
5	QPSK	1	12	23.96	0.249	23.91	0.246	23.75	0.237
5	QPSK	1	24	23.7	0.234	23.58	0.228	23.62	0.230
5	QPSK	12	0	23.44	0.221	23.51	0.224	23.51	0.224
5	QPSK	12	7	23.48	0.223	23.41	0.219	23.49	0.223
5	QPSK	12	13	23.49	0.223	23.31	0.214	23.48	0.223
5	QPSK	25	0	22.70	0.186	22.68	0.185	22.79	0.190
5	16QAM	1	0	22.70	0.186	22.63	0.183	22.56	0.180
5	16QAM	1	12	23.03	0.201	22.92	0.196	23.00	0.200
5	16QAM	1	24	22.64	0.184	22.56	0.180	22.25	0.168
5	16QAM	12	0	22.10	0.162	22.11	0.163	22.22	0.167
5	16QAM	12	7	22.27	0.169	22.11	0.163	22.21	0.166
5	16QAM	12	13	22.20	0.166	22.09	0.162	22.14	0.164
5	16QAM	25	0	22.12	0.163	22.08	0.161	22.12	0.163
5	64QAM	1	0	21.60	0.145	21.44	0.139	21.55	0.143
5	64QAM	1	12	21.84	0.153	21.81	0.152	21.85	0.153
5	64QAM	1	24	21.46	0.140	21.47	0.140	21.61	0.145
5	64QAM	12	0	21.52	0.142	21.46	0.140	21.57	0.144
5	64QAM	12	7	21.57	0.144	21.44	0.139	21.62	0.145
5	64QAM	12	13	21.57	0.144	21.38	0.137	21.58	0.144
5	64QAM	25	0	21.56	0.143	21.52	0.142	21.51	0.142

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 5				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.27
	Low	16QAM	1.10	1.29
	Low	64QAM	1.09	1.30
	Mid	QPSK	1.09	1.27
	Mid	16QAM	1.10	1.29
	Mid	64QAM	1.09	1.29
	High	QPSK	1.09	1.27
	High	16QAM	1.10	1.31
	High	64QAM	1.09	1.29
3	Low	QPSK	2.69	2.92
	Low	16QAM	2.69	2.93
	Low	64QAM	2.70	2.91
	Mid	QPSK	2.69	2.92
	Mid	16QAM	2.69	2.93
	Mid	64QAM	2.70	2.93
	High	QPSK	2.69	2.91
	High	16QAM	2.69	2.92
	High	64QAM	2.70	2.94
5	Low	QPSK	4.51	5.20
	Low	16QAM	4.52	5.19
	Low	64QAM	4.51	5.13
	Mid	QPSK	4.52	5.15
	Mid	16QAM	4.51	5.20
	Mid	64QAM	4.51	5.12
	High	QPSK	4.52	5.04
	High	16QAM	4.51	5.08
	High	64QAM	4.51	5.12
10	Low	QPSK	9.02	10.01
	Low	16QAM	8.98	9.95
	Low	64QAM	8.99	10.04
	Mid	QPSK	9.03	10.09
	Mid	16QAM	8.99	10.00
	Mid	64QAM	9.00	10.08
	High	QPSK	9.01	10.10
	High	16QAM	8.99	10.00
	High	64QAM	9.00	10.07



LTE Band 7				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.51	5.20
	Low	16QAM	4.51	5.15
	Low	64QAM	4.51	5.20
	Mid	QPSK	4.52	5.27
	Mid	16QAM	4.52	5.17
	Mid	64QAM	4.51	5.18
	High	QPSK	4.52	5.22
	High	16QAM	4.52	5.21
	High	64QAM	4.51	5.14
10	Low	QPSK	9.01	9.98
	Low	16QAM	8.98	9.94
	Low	64QAM	8.98	10.02
	Mid	QPSK	9.01	10.03
	Mid	16QAM	8.97	9.93
	Mid	64QAM	9.00	10.06
	High	QPSK	9.02	10.56
	High	16QAM	8.98	9.97
	High	64QAM	9.01	10.01
15	Low	QPSK	13.50	15.04
	Low	16QAM	13.48	14.96
	Low	64QAM	13.48	15.16
	Mid	QPSK	13.48	14.96
	Mid	16QAM	13.48	15.13
	Mid	64QAM	13.49	14.88
	High	QPSK	13.55	15.52
	High	16QAM	13.50	15.10
	High	64QAM	13.50	15.18
20	Low	QPSK	17.98	19.77
	Low	16QAM	18.01	19.72
	Low	64QAM	17.99	19.69
	Mid	QPSK	17.95	19.70
	Mid	16QAM	17.96	19.73
	Mid	64QAM	17.99	19.70
	High	QPSK	18.03	20.62
	High	16QAM	18.02	19.79
	High	64QAM	18.02	19.88



LTE Band 38				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.51	5.08
	Low	16QAM	4.51	5.12
	Low	64QAM	4.50	5.10
	Mid	QPSK	4.50	4.94
	Mid	16QAM	4.50	4.94
	Mid	64QAM	4.49	4.93
	High	QPSK	4.50	5.08
	High	16QAM	4.51	5.18
	High	64QAM	4.49	5.04
10	Low	QPSK	9.00	10.27
	Low	16QAM	8.97	10.03
	Low	64QAM	8.98	10.10
	Mid	QPSK	8.99	10.10
	Mid	16QAM	8.98	9.79
	Mid	64QAM	8.99	10.74
	High	QPSK	8.98	10.25
	High	16QAM	8.97	10.21
	High	64QAM	8.99	10.10
15	Low	QPSK	13.48	15.08
	Low	16QAM	13.48	14.59
	Low	64QAM	13.47	15.51
	Mid	QPSK	13.49	15.46
	Mid	16QAM	13.49	15.91
	Mid	64QAM	13.46	15.48
	High	QPSK	13.49	14.56
	High	16QAM	13.45	15.24
	High	64QAM	13.44	15.56
20	Low	QPSK	17.98	20.13
	Low	16QAM	17.93	19.81
	Low	64QAM	17.94	19.98
	Mid	QPSK	17.97	21.66
	Mid	16QAM	17.95	19.63
	Mid	64QAM	17.97	21.43
	High	QPSK	17.95	19.36
	High	16QAM	17.92	20.23
	High	64QAM	17.96	20.42



LTE Band 40, Block A				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.51	5.34
	Low	16QAM	4.51	5.47
	Low	64QAM	4.51	5.44
	Mid	QPSK	4.53	5.59
	Mid	16QAM	4.51	5.29
	Mid	64QAM	4.51	5.32
	High	QPSK	4.51	5.09
	High	16QAM	4.51	5.11
	High	64QAM	4.51	5.47
10	Mid	QPSK	9.02	10.16
	Mid	16QAM	8.98	10.15
	Mid	64QAM	9.00	10.28

LTE Band 40, Block B				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.51	5.10
	Low	16QAM	4.50	5.09
	Low	64QAM	4.52	5.28
	Mid	QPSK	4.50	5.31
	Mid	16QAM	4.51	5.25
	Mid	64QAM	4.51	5.12
	High	QPSK	4.51	5.34
	High	16QAM	4.51	5.13
	High	64QAM	4.51	5.33
10	Mid	QPSK	8.96	10.02
	Mid	16QAM	9.00	10.06
	Mid	64QAM	8.97	10.02



LTE Band 41				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.49	4.92
	Low	16QAM	4.50	4.94
	Low	64QAM	4.49	5.05
	Mid	QPSK	4.49	4.96
	Mid	16QAM	4.49	5.02
	Mid	64QAM	4.49	5.32
	High	QPSK	4.50	5.05
	High	16QAM	4.49	4.93
	High	64QAM	4.48	5.09
10	Low	QPSK	8.97	9.95
	Low	16QAM	9.00	9.93
	Low	64QAM	8.99	9.98
	Mid	QPSK	8.99	10.09
	Mid	16QAM	8.99	10.13
	Mid	64QAM	8.99	9.95
	High	QPSK	8.99	10.00
	High	16QAM	8.96	9.68
	High	64QAM	8.97	9.90
15	Low	QPSK	13.51	14.93
	Low	16QAM	13.46	14.67
	Low	64QAM	13.45	14.76
	Mid	QPSK	13.47	15.65
	Mid	16QAM	13.49	15.29
	Mid	64QAM	13.45	14.34
	High	QPSK	13.49	14.58
	High	16QAM	13.48	14.48
	High	64QAM	13.50	14.37
20	Low	QPSK	17.96	19.19
	Low	16QAM	17.97	19.23
	Low	64QAM	17.97	20.57
	Mid	QPSK	17.99	19.50
	Mid	16QAM	17.99	19.33
	Mid	64QAM	17.99	19.51
	High	QPSK	17.94	19.59
	High	16QAM	17.95	19.55
	High	64QAM	17.94	19.45



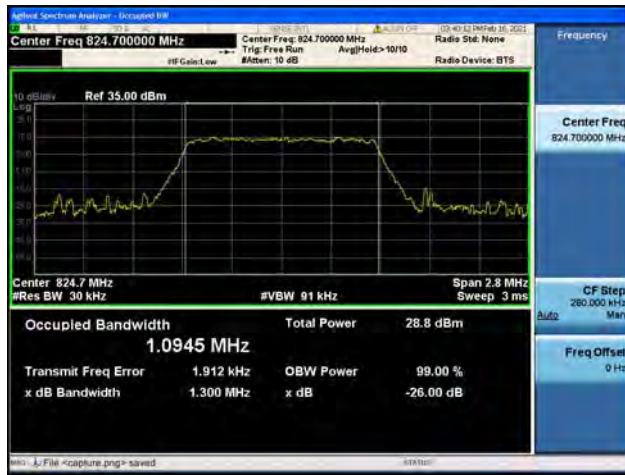
Band5 / 1.4MHz / Low CH / QPSK



Band5 / 1.4MHz / Low CH / 16QAM



Band5 / 1.4MHz / Low CH / 64QAM



Band5 / 1.4MHz / Mid CH / QPSK



Band5 / 1.4MHz / Mid CH / 16QAM



Band5 / 1.4MHz / Mid CH / 64QAM

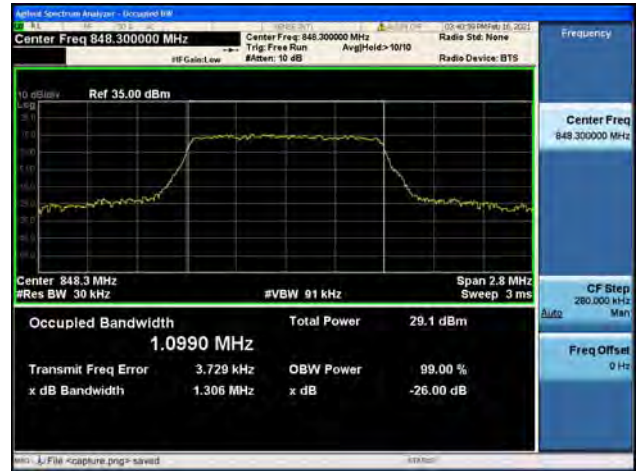




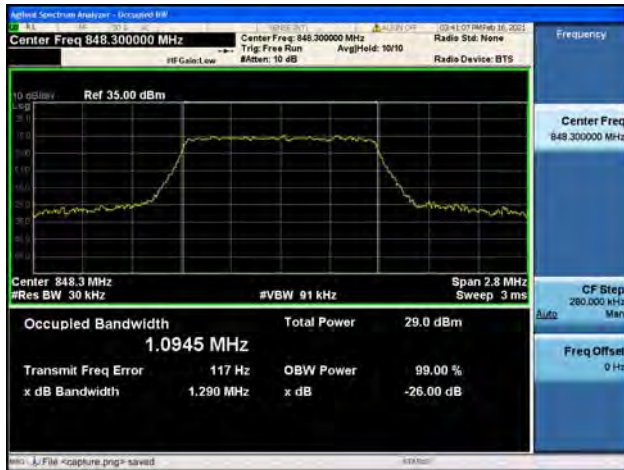
Band5 / 1.4MHz / High CH / QPSK



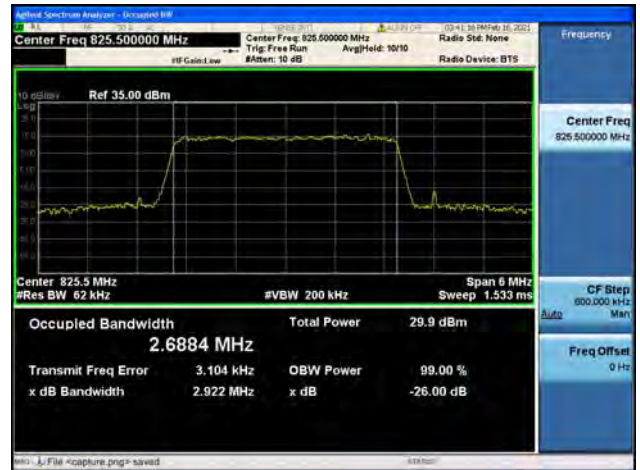
Band5 / 1.4MHz / High CH / 16QAM



Band5 / 1.4MHz / High CH / 64QAM



Band5 / 3MHz / Low CH / QPSK



Band5 / 3MHz / Low CH / 16QAM



Band5 / 3MHz / Low CH / 64QAM

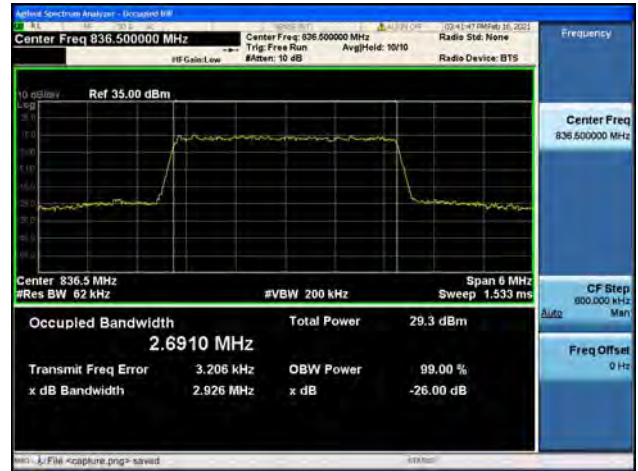




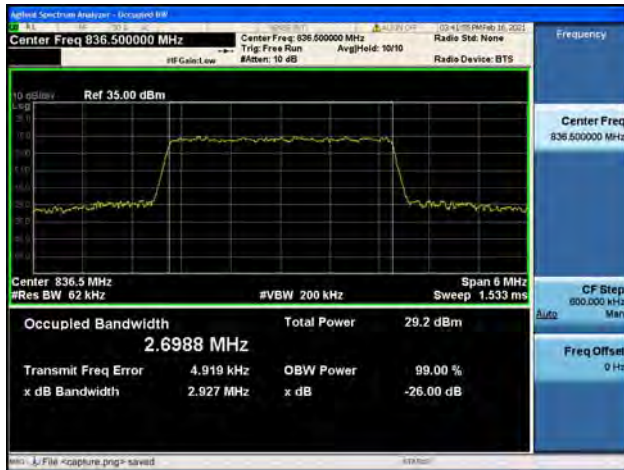
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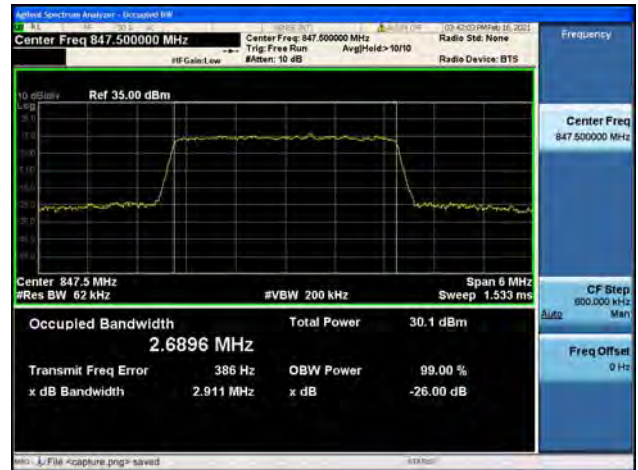
Band5 / 3MHz / Mid CH / 16QAM



Band5 / 3MHz / Mid CH / 64QAM



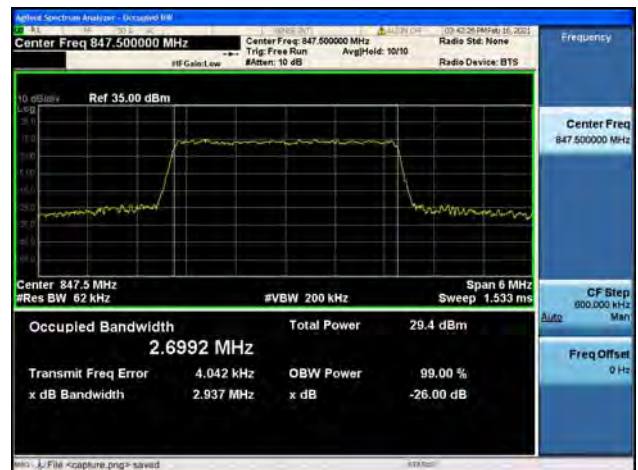
Band5 / 3MHz / High CH / QPSK



Band5 / 3MHz / High CH / 16QAM



Band5 / 3MHz / High CH / 64QAM





Band5 / 5MHz / Low CH / QPSK



Band5 / 5MHz / Low CH / 16QAM



Band5 / 5MHz / Low CH / 64QAM



Band5 / 5MHz / Mid CH / QPSK



Band5 / 5MHz / Mid CH / 16QAM

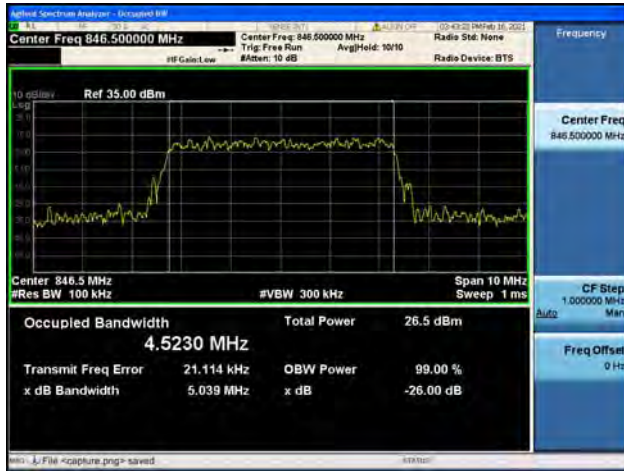


Band5 / 5MHz / Mid CH / 64QAM





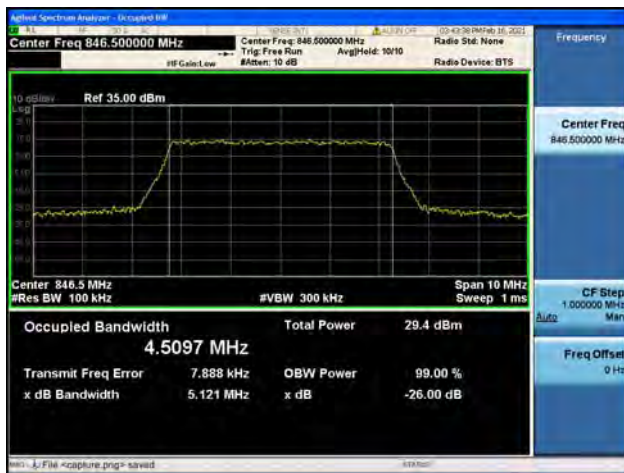
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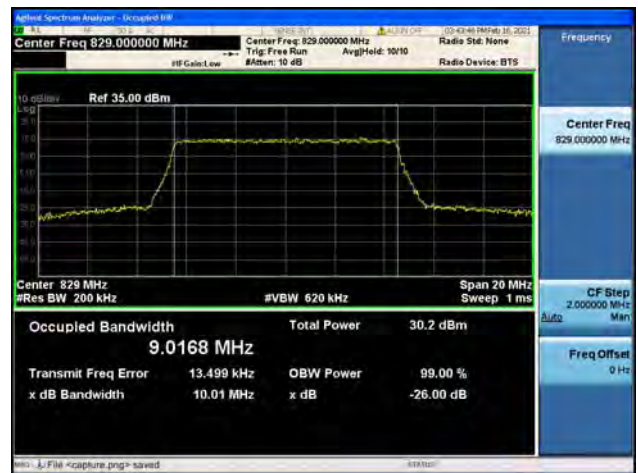
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Band5 / 5MHz / High CH / 64QAM



Band5 / 10MHz / Low CH / QPSK



Band5 / 10MHz / Low CH / 16QAM

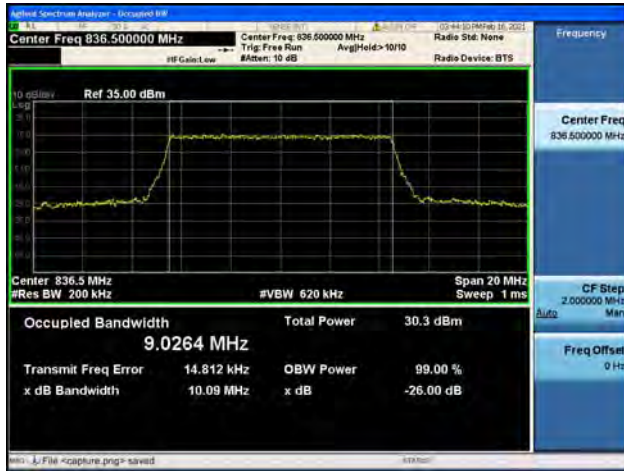


Band5 / 10MHz / Low CH / 64QAM





Band5 / 10MHz / Mid CH / QPSK



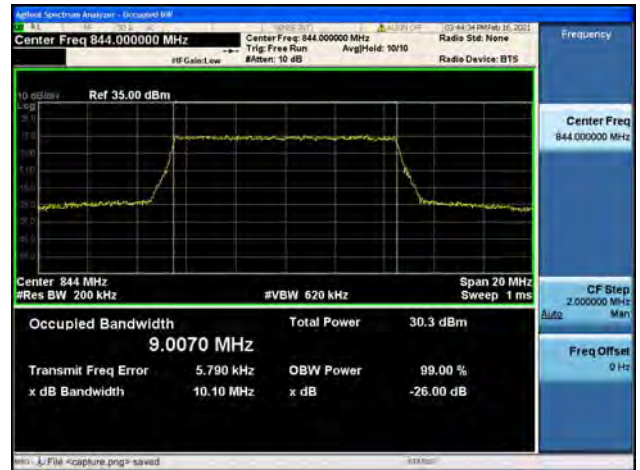
Band5 / 10MHz / Mid CH / 16QAM



Band5 / 10MHz / Mid CH / 64QAM



Band5 / 10MHz / High CH / QPSK



Band5 / 10MHz / High CH / 16QAM



Band5 / 10MHz / High CH / 64QAM





Band7 / 5MHz / Low CH / QPSK



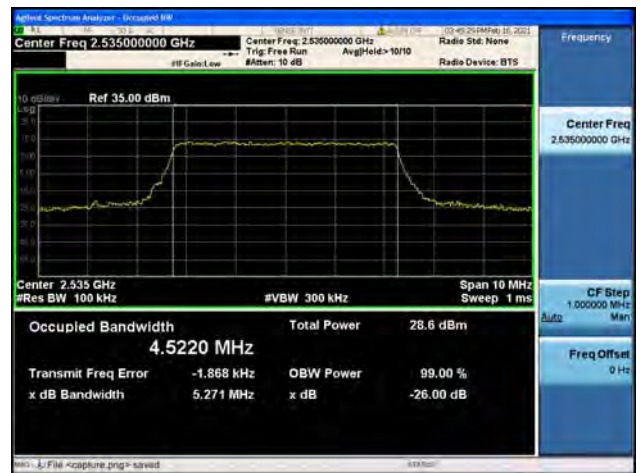
Band7 / 5MHz / Low CH / 16QAM



Band7 / 5MHz / Low CH / 64QAM



Band7 / 5MHz / Mid CH / QPSK



Band7 / 5MHz / Mid CH / 16QAM

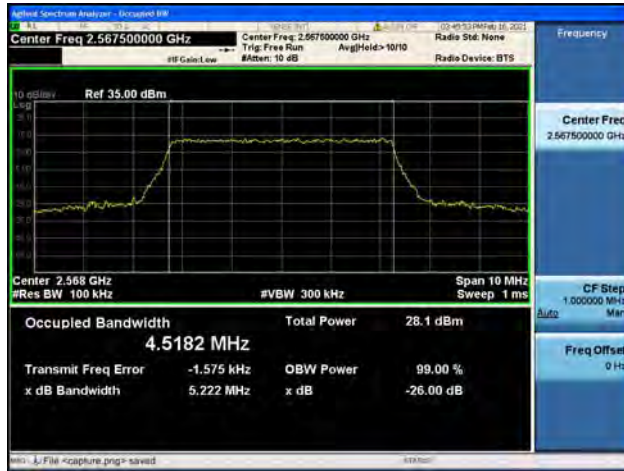


Band7 / 5MHz / Mid CH / 64QAM





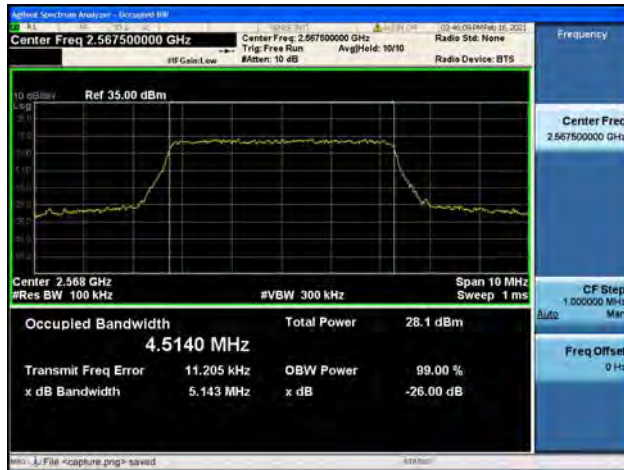
Band7 / 5MHz / High CH / QPSK



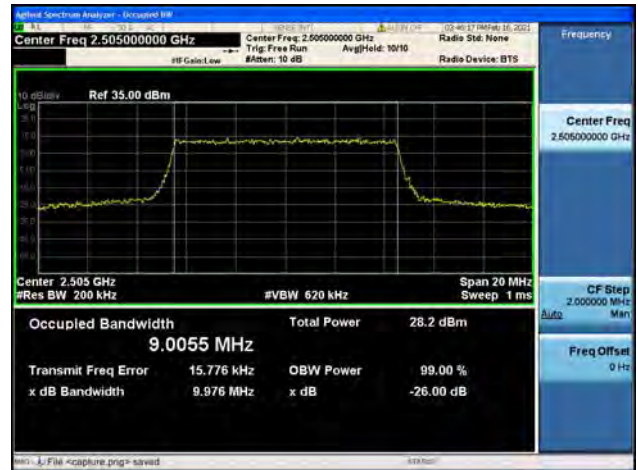
Band7 / 5MHz / High CH / 16QAM



Band7 / 5MHz / High CH / 64QAM



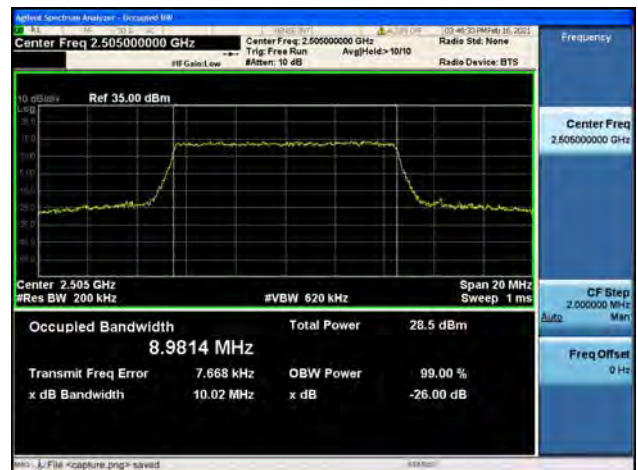
Band7 / 10MHz / Low CH / QPSK



Band7 / 10MHz / Low CH / 16QAM



Band7 / 10MHz / Low CH / 64QAM

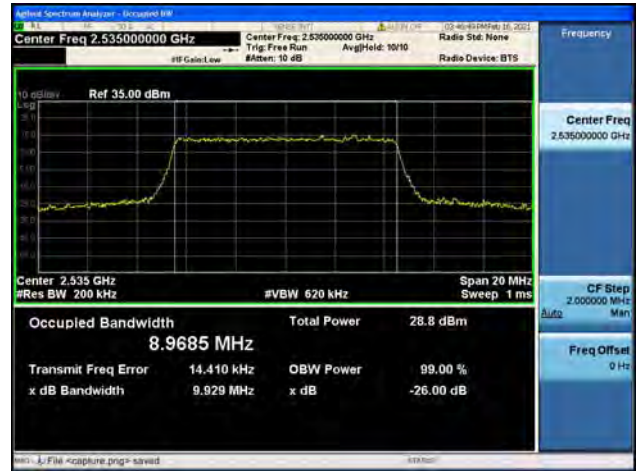




Band7 / 10MHz / Mid CH / QPSK



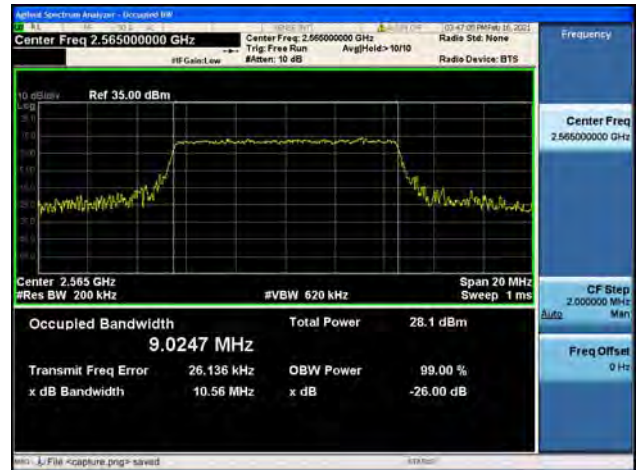
Band7 / 10MHz / Mid CH / 16QAM



Band7 / 10MHz / Mid CH / 64QAM



Band7 / 10MHz / High CH / QPSK



Band7 / 10MHz / High CH / 16QAM

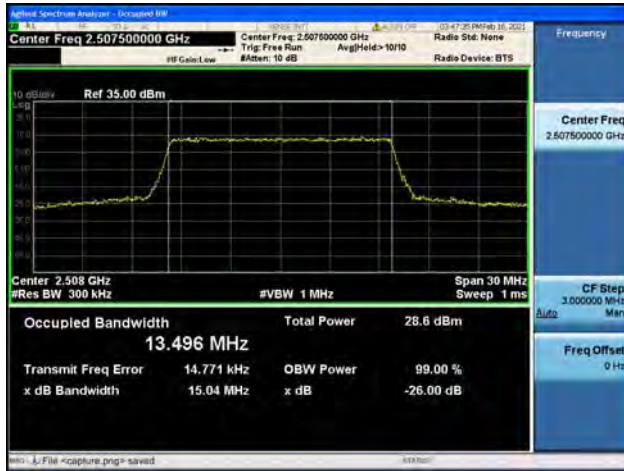


Band7 / 10MHz / High CH / 64QAM





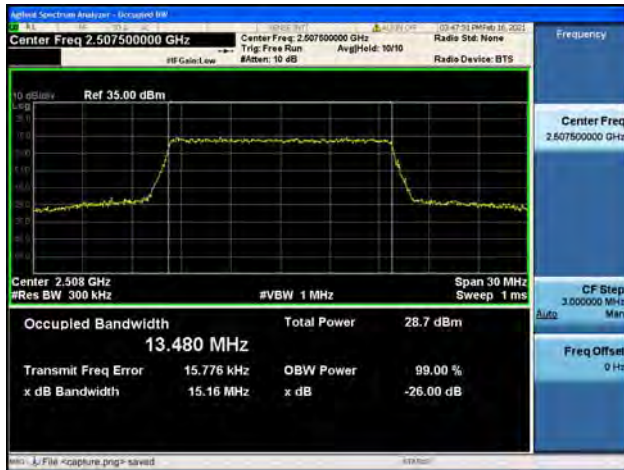
Band7 / 15MHz / Low CH / QPSK



Band7 / 15MHz / Low CH / 16QAM



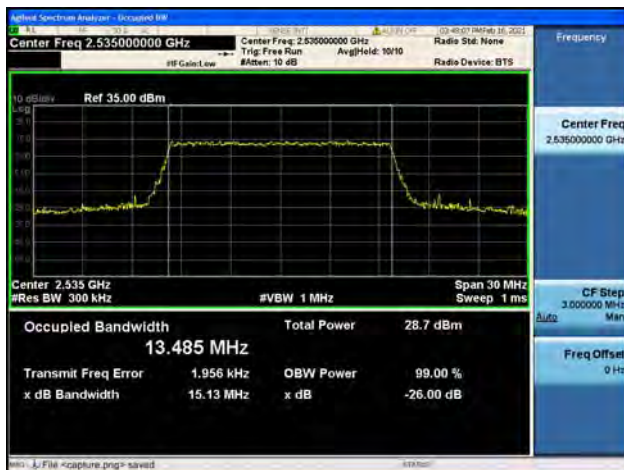
Band7 / 15MHz / Low CH / 64QAM



Band7 / 15MHz / Mid CH / QPSK



Band7 / 15MHz / Mid CH / 16QAM

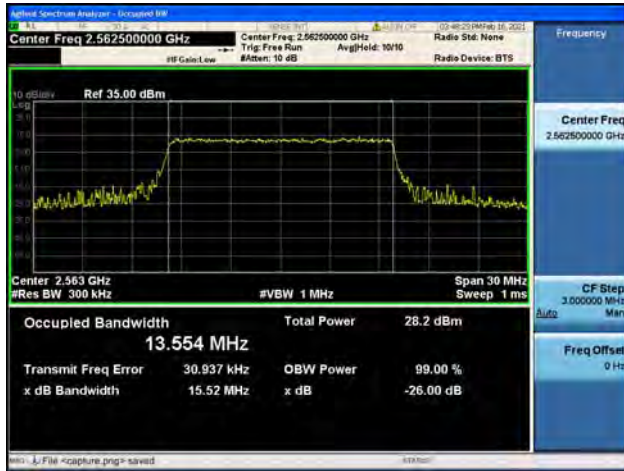


Band7 / 15MHz / Mid CH / 64QAM

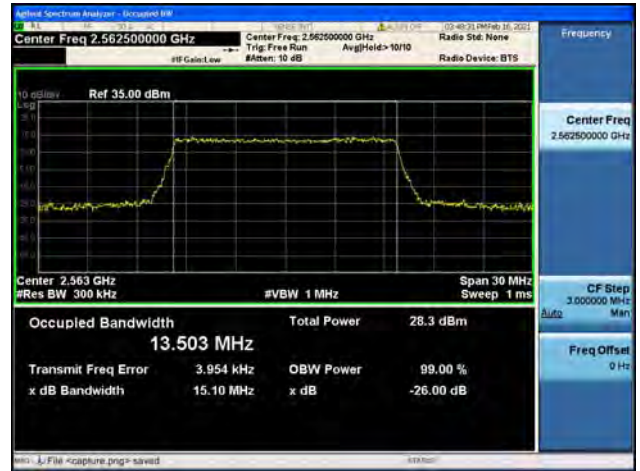




Band7 / 15MHz / High CH / QPSK



Band7 / 15MHz / High CH / 16QAM



Band7 / 15MHz / High CH / 64QAM



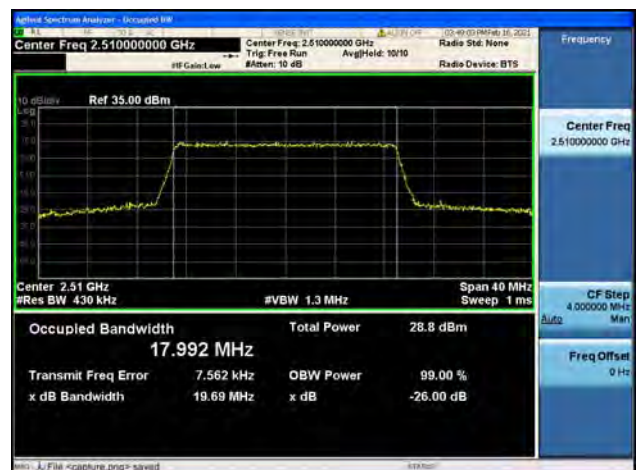
Band7 / 20MHz / Low CH / QPSK



Band7 / 20MHz / Low CH / 16QAM



Band7 / 20MHz / Low CH / 64QAM





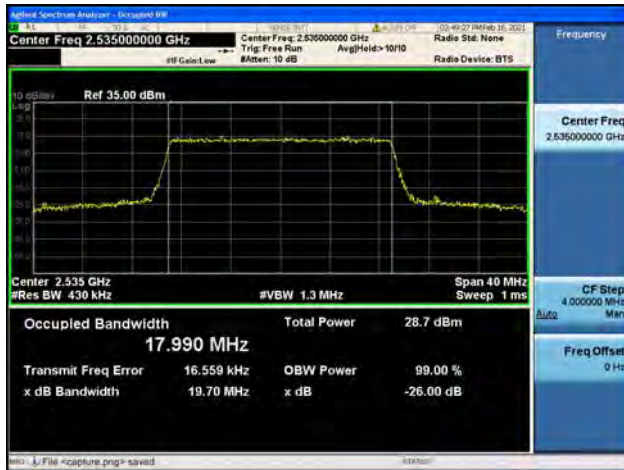
Band7 / 20MHz / Mid CH / QPSK



Band7 / 20MHz / Mid CH / 16QAM



Band7 / 20MHz / Mid CH / 64QAM



Band7 / 20MHz / High CH / QPSK



Band7 / 20MHz / High CH / 16QAM

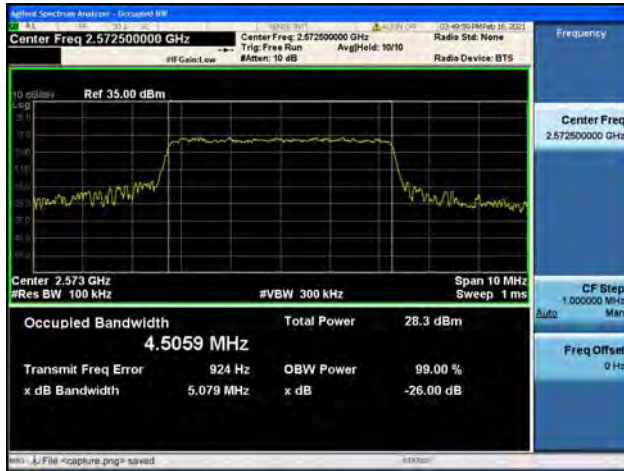


Band7 / 20MHz / High CH / 64QAM

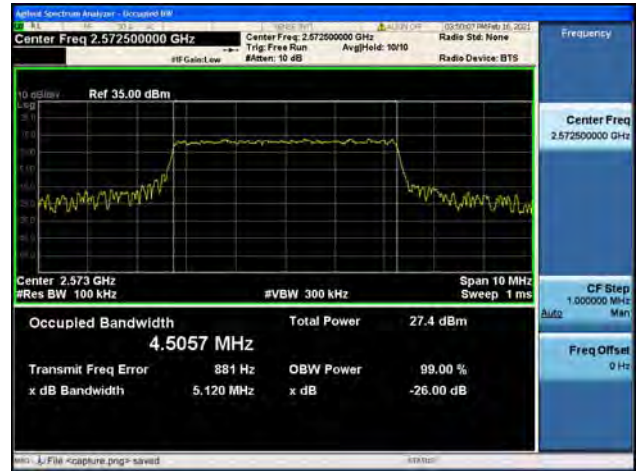




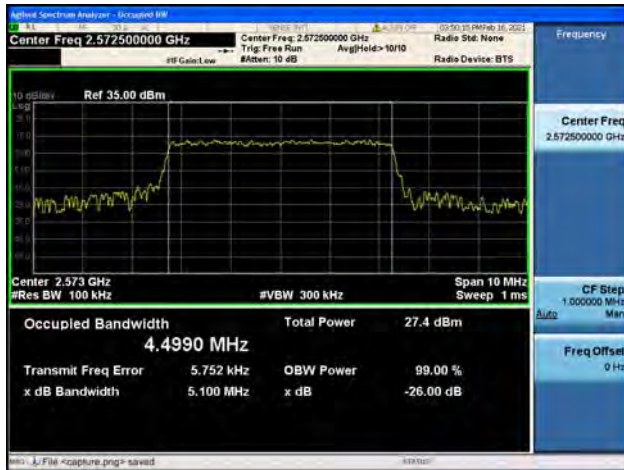
Band38 / 5MHz / Low CH / QPSK



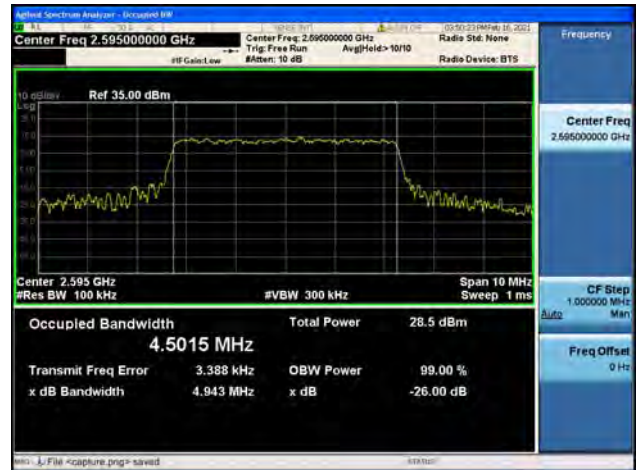
Band38 / 5MHz / Low CH / 16QAM



Band38 / 5MHz / Low CH / 64QAM



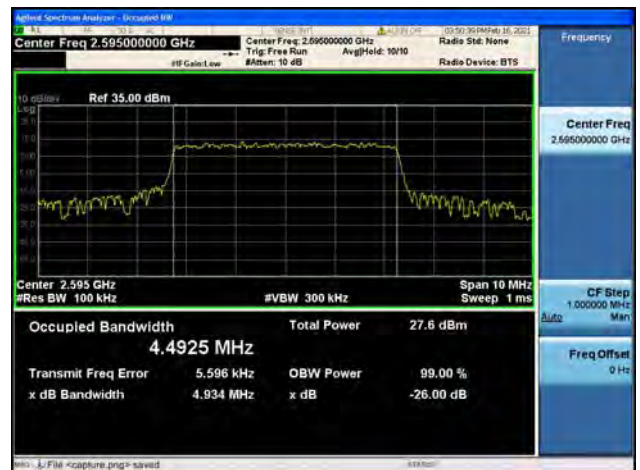
Band38 / 5MHz / Mid CH / QPSK



Band38 / 5MHz / Mid CH / 16QAM

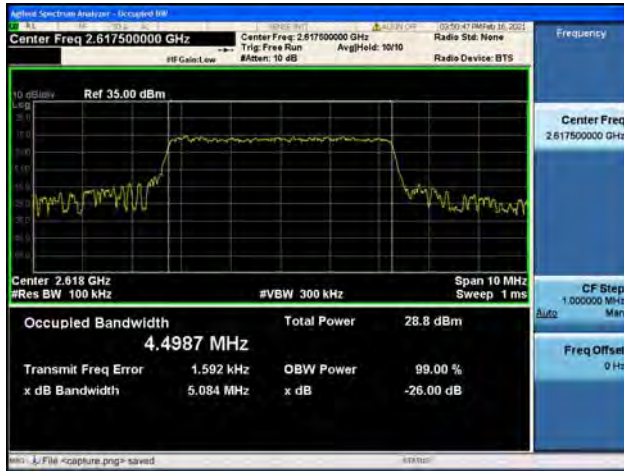


Band38 / 5MHz / Mid CH / 64QAM

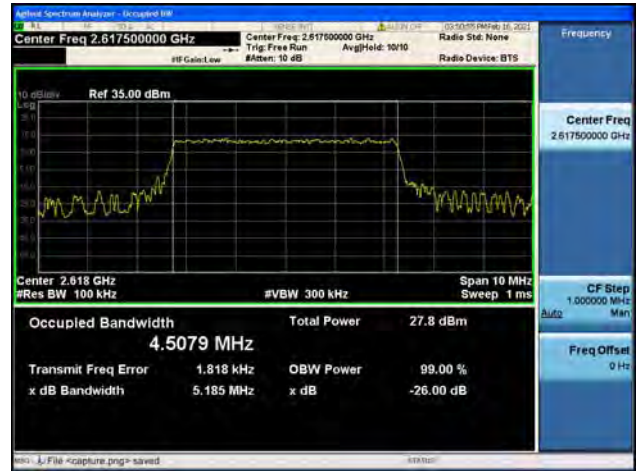




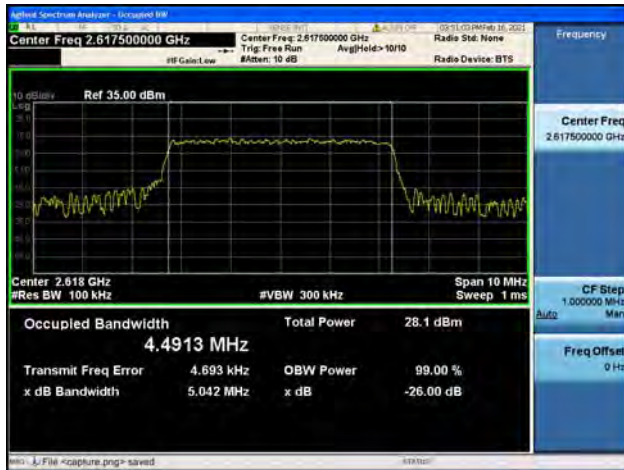
Band38 / 5MHz / High CH / QPSK



Band38 / 5MHz / High CH / 16QAM



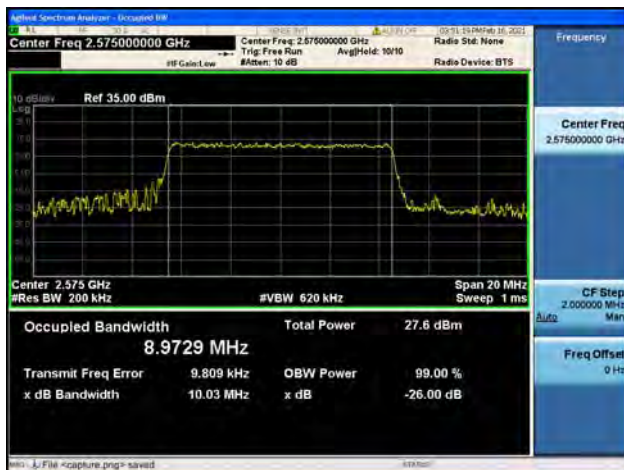
Band38 / 5MHz / High CH / 64QAM



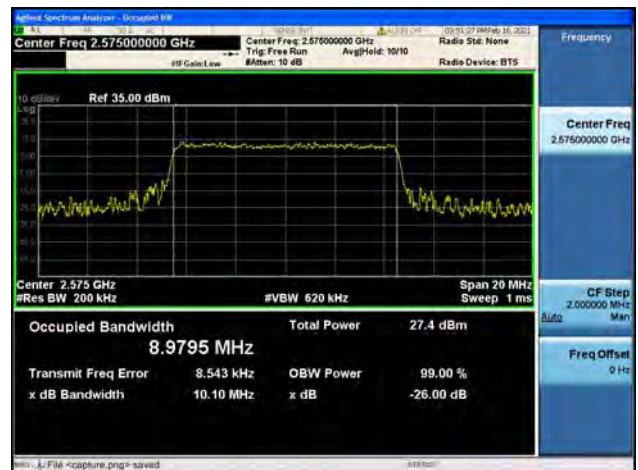
Band38 / 10MHz / Low CH / QPSK



Band38 / 10MHz / Low CH / 16QAM

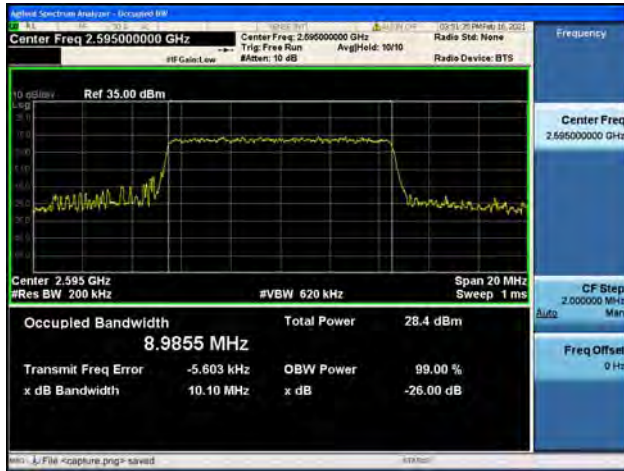


Band38 / 10MHz / Low CH / 64QAM

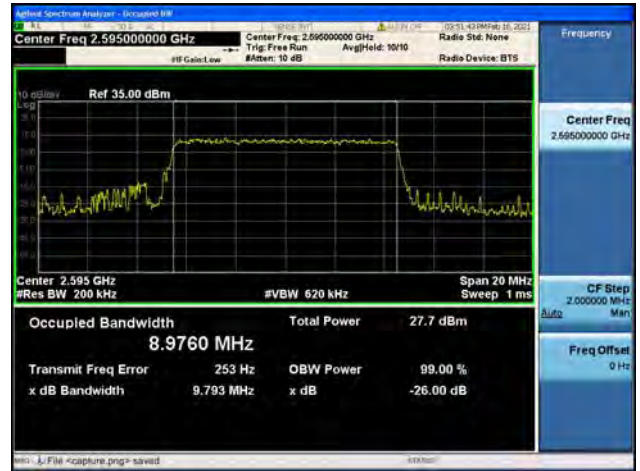




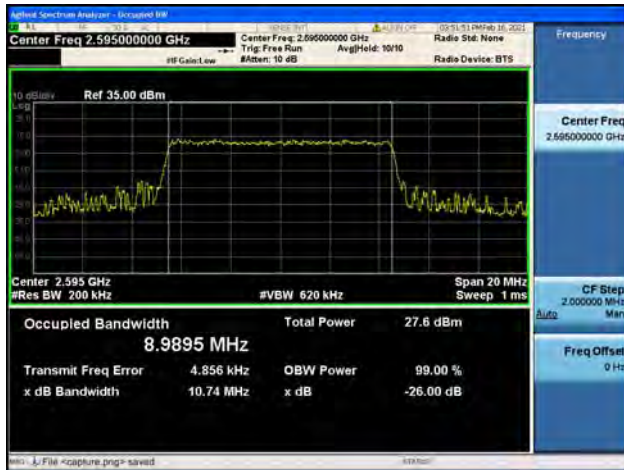
Band38 / 10MHz / Mid CH / QPSK



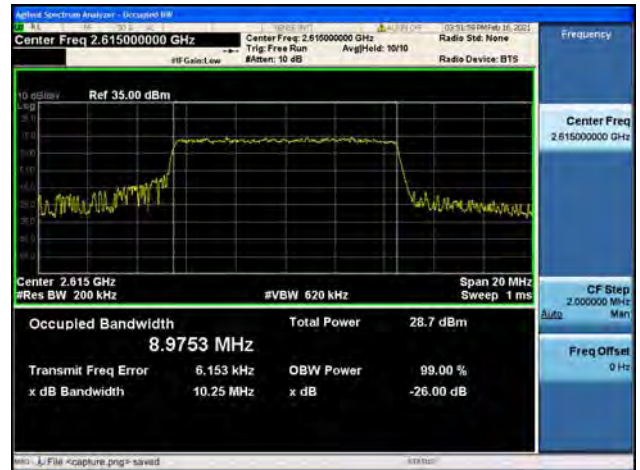
Band38 / 10MHz / Mid CH / 16QAM



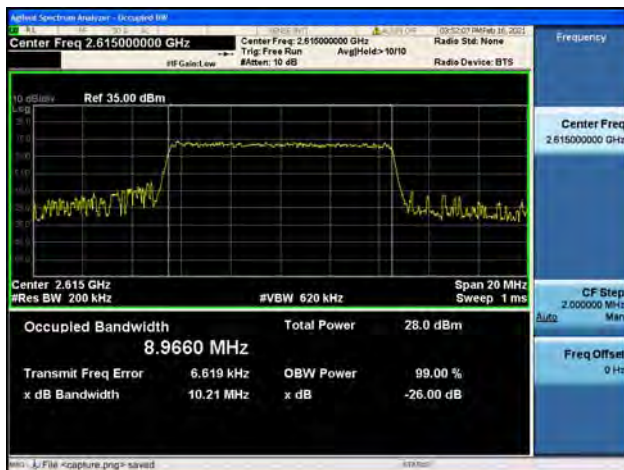
Band38 / 10MHz / Mid CH / 64QAM



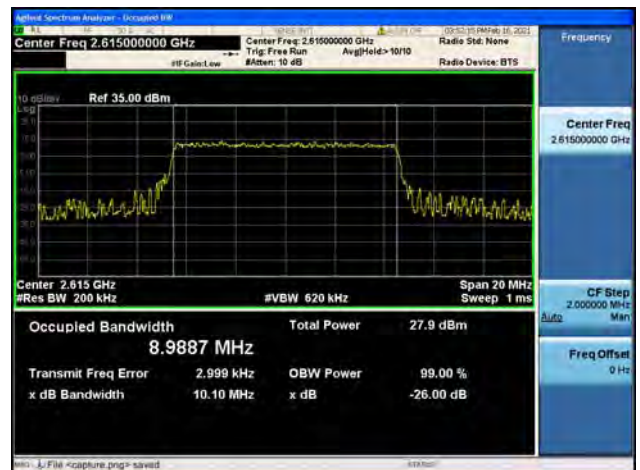
Band38 / 10MHz / High CH / QPSK



Band38 / 10MHz / High CH / 16QAM

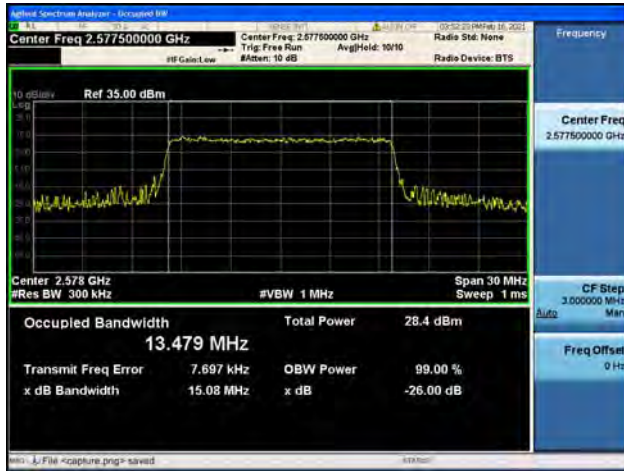


Band38 / 10MHz / High CH / 64QAM

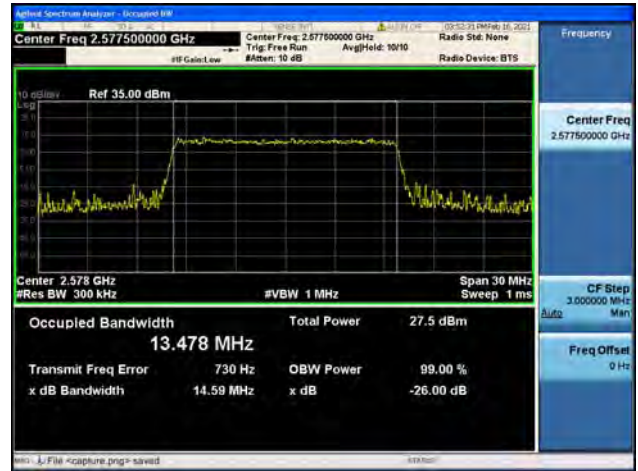




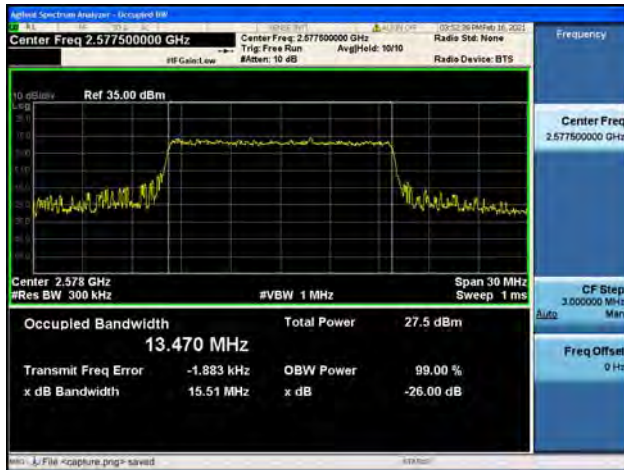
Band38 / 15MHz / Low CH / QPSK



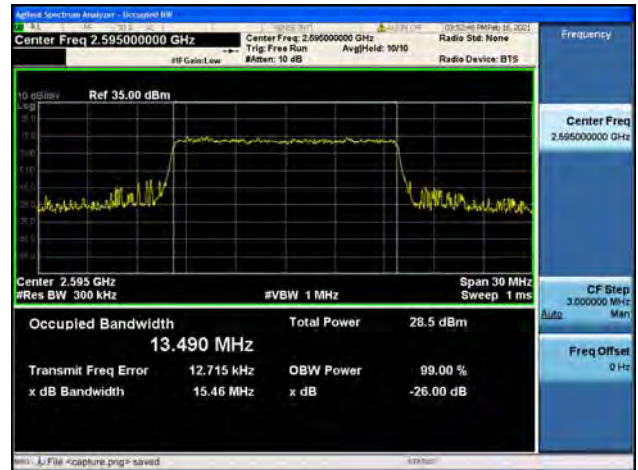
Band38 / 15MHz / Low CH / 16QAM



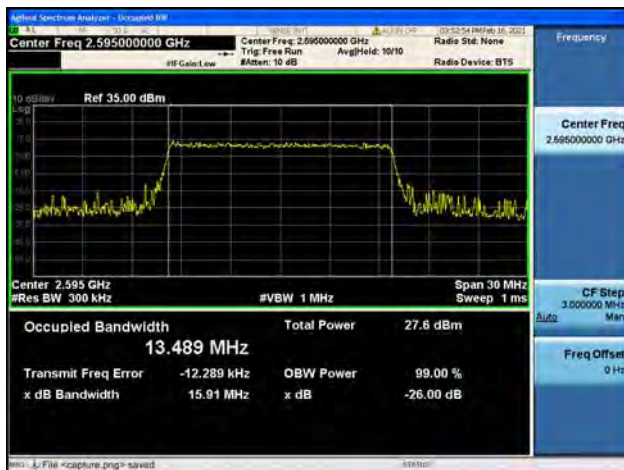
Band38 / 15MHz / Low CH / 64QAM



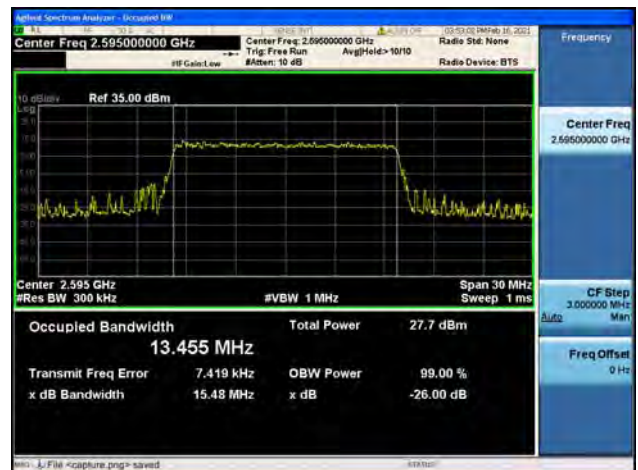
Band38 / 15MHz / Mid CH / QPSK

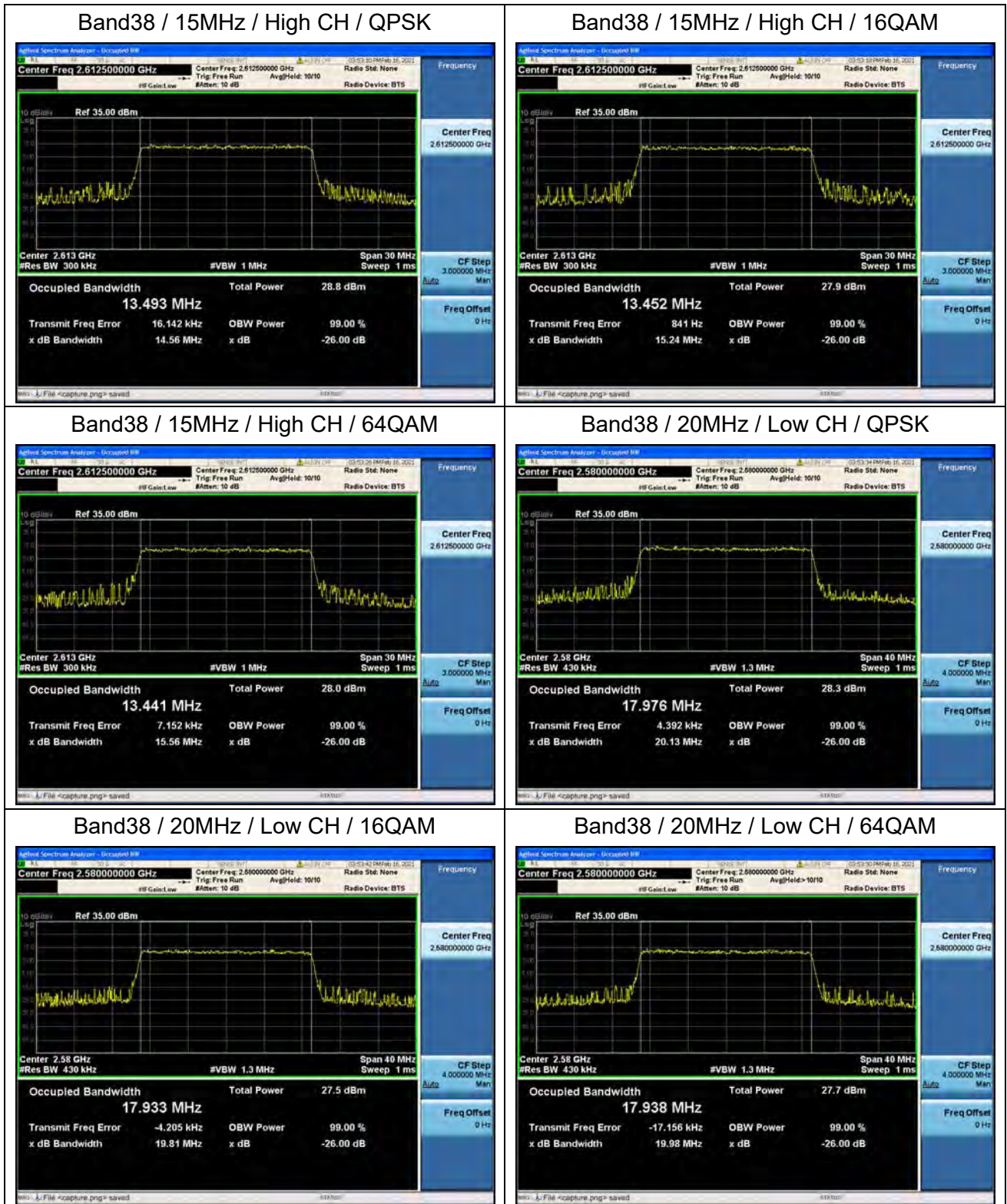


Band38 / 15MHz / Mid CH / 16QAM



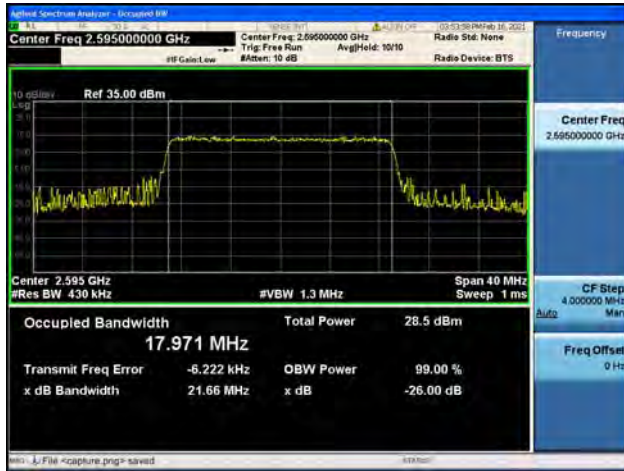
Band38 / 15MHz / Mid CH / 64QAM



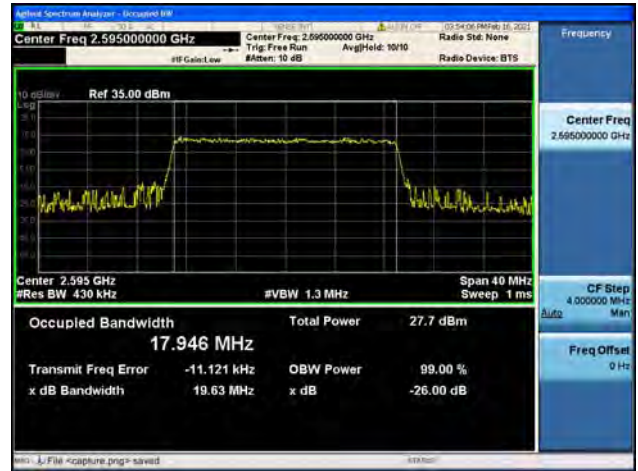




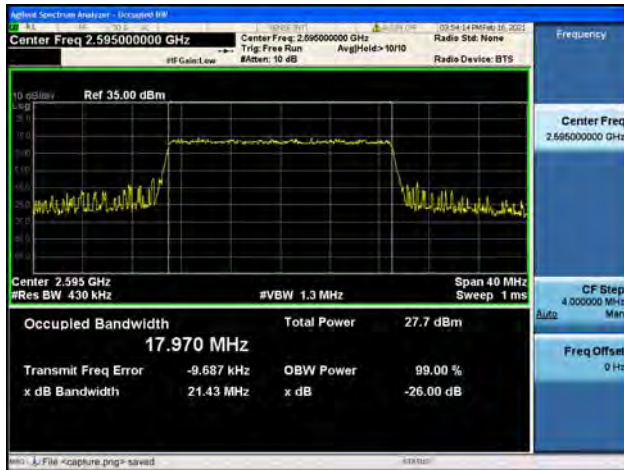
Band38 / 20MHz / Mid CH / QPSK



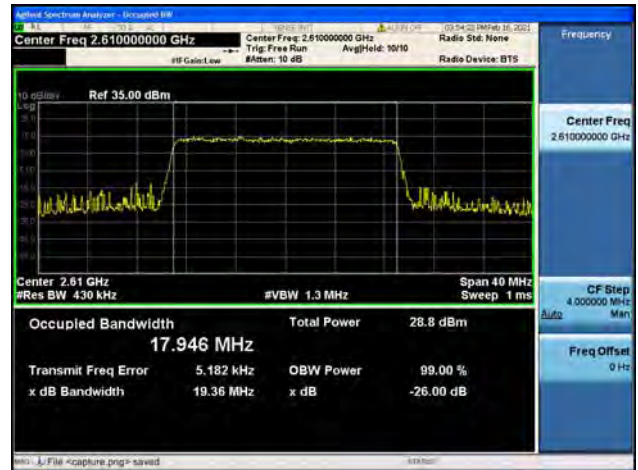
Band38 / 20MHz / Mid CH / 16QAM



Band38 / 20MHz / Mid CH / 64QAM



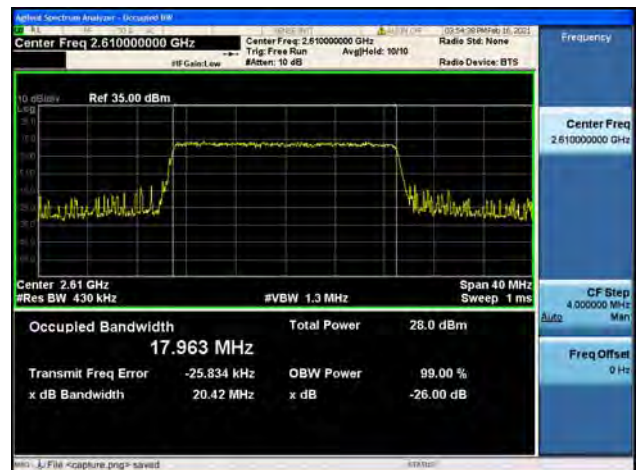
Band38 / 20MHz / High CH / QPSK



Band38 / 20MHz / High CH / 16QAM

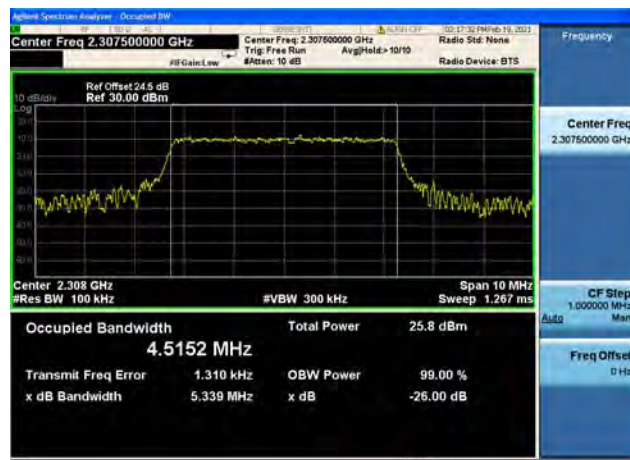


Band38 / 20MHz / High CH / 64QAM

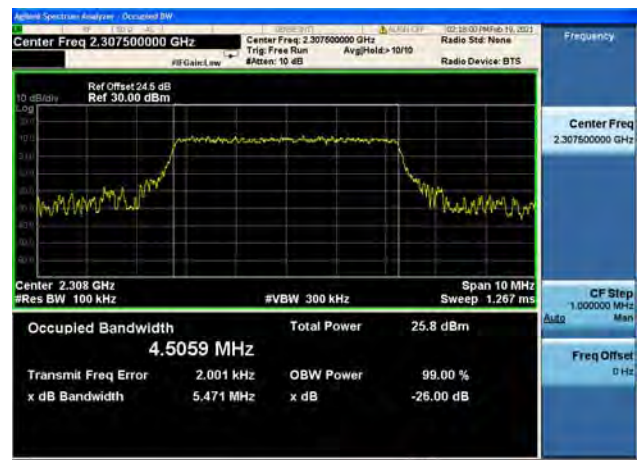




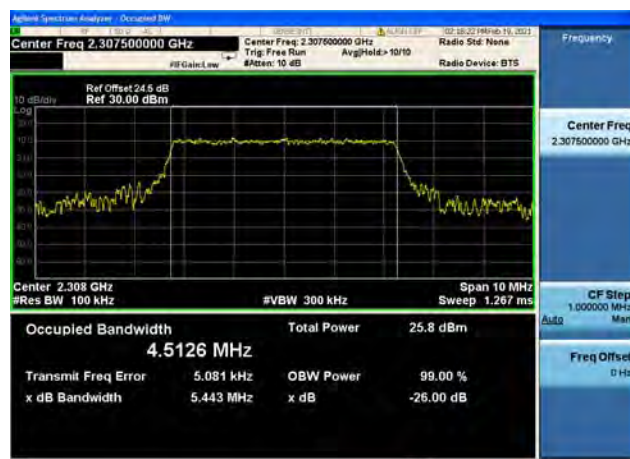
Band40/ Block A / 5MHz / Low CH / QPSK



Band40/ Block A / 5MHz / Low CH / 16QAM



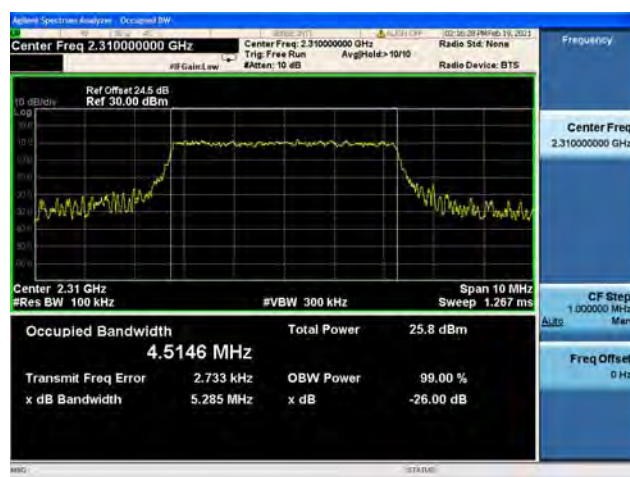
Band40/ Block A / 5MHz / Low CH / 64QAM



Band40/ Block A / 5MHz / Mid CH / QPSK



Band40/ Block A / 5MHz / Mid CH / 16QAM

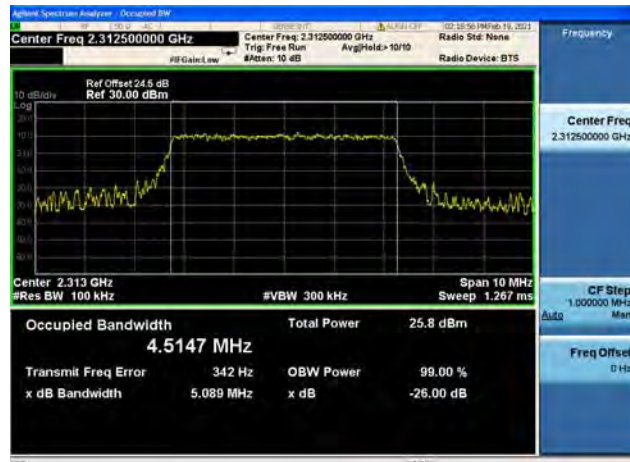


Band40/ Block A / 5MHz / Mid CH / 64QAM

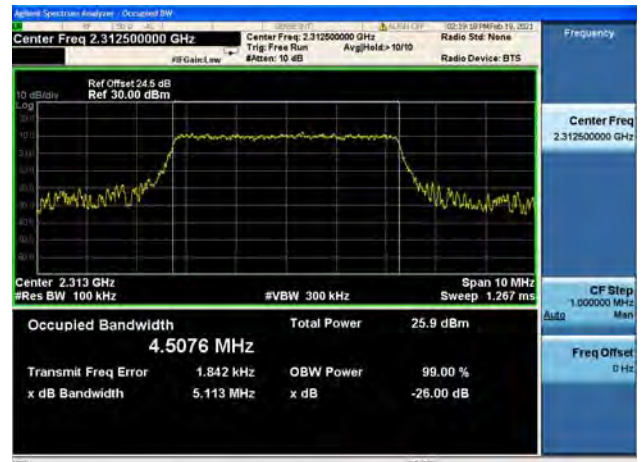




Band40/ Block A / 5MHz / High CH / QPSK



Band40/ Block A / 5MHz / High CH / 16QAM



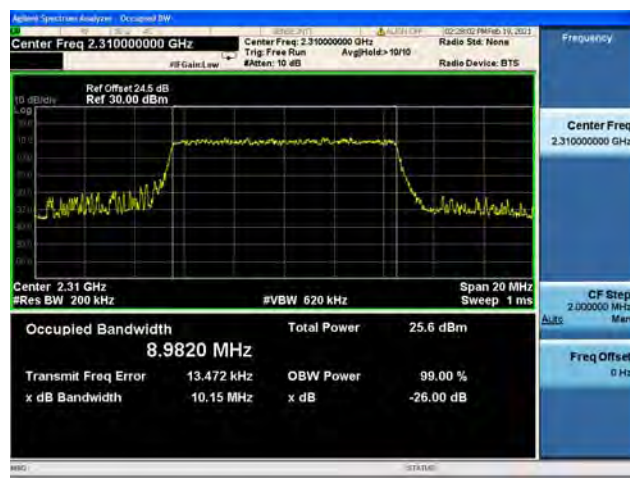
Band40/ Block A / 5MHz / High CH / 64QAM



Band40/ Block A / 10MHz / Mid CH / QPSK



Band40/ Block A / 10MHz / Mid CH / 16QAM

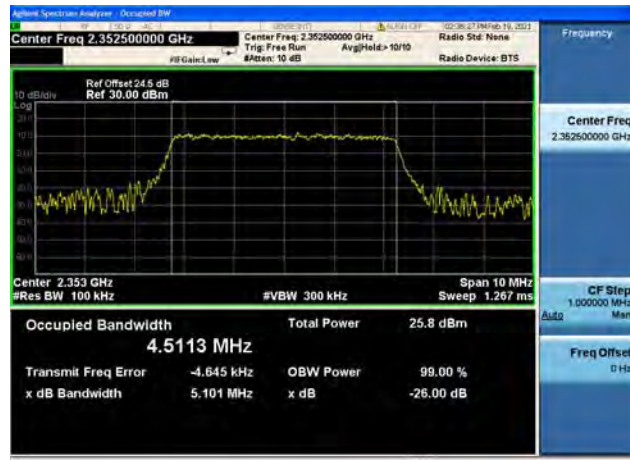


Band40/ Block A / 10MHz / Mid CH / 64QAM

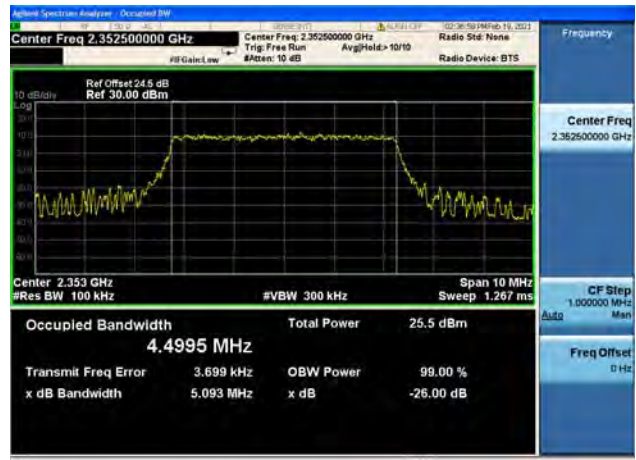




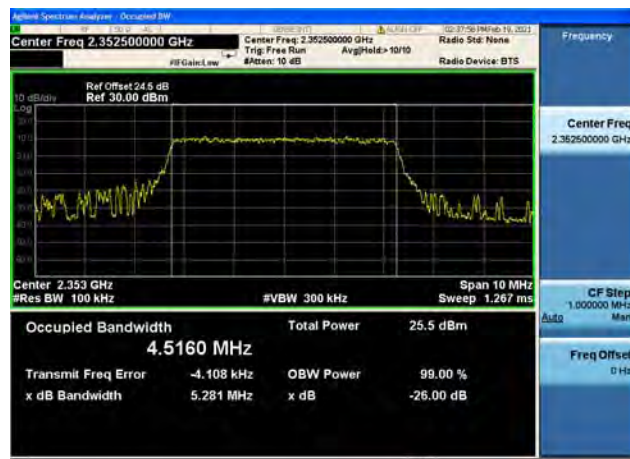
Band40/ Block B / 5MHz / Low CH / QPSK



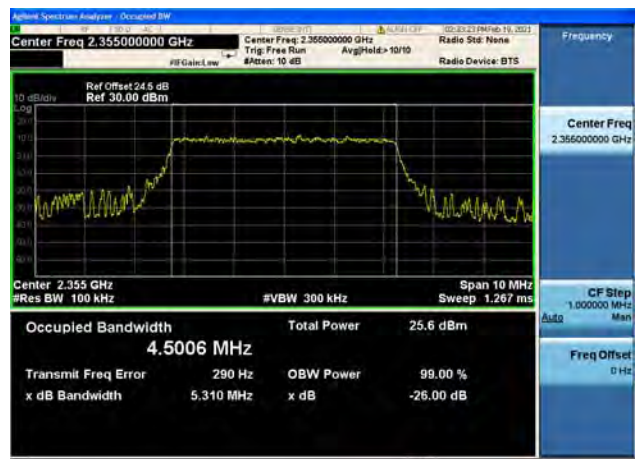
Band40/ Block B / 5MHz / Low CH / 16QAM



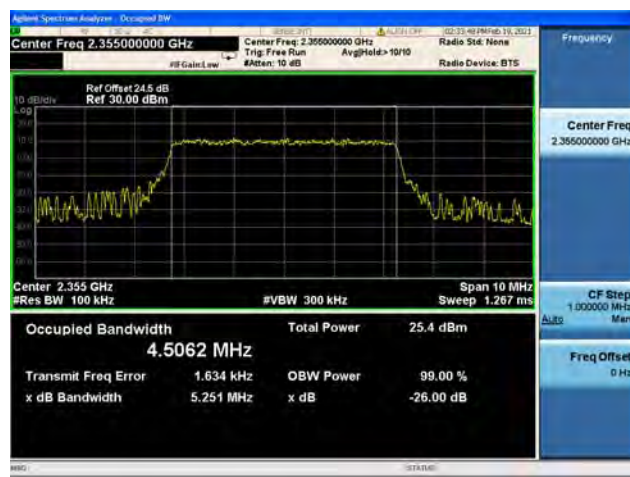
Band40/ Block B / 5MHz / Low CH / 64QAM



Band40/ Block B / 5MHz / Mid CH / QPSK



Band40/ Block B / 5MHz / Mid CH / 16QAM

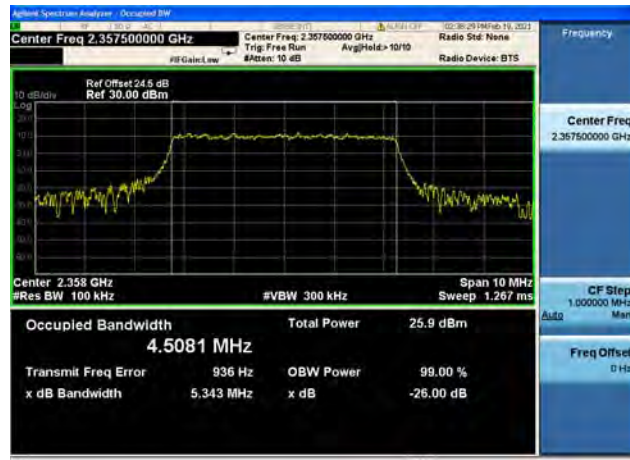


Band40/ Block B / 5MHz / Mid CH / 64QAM





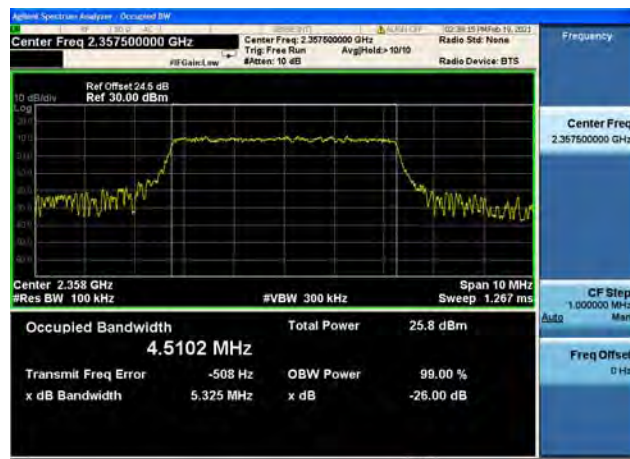
Band40/ Block B / 5MHz / High CH / QPSK



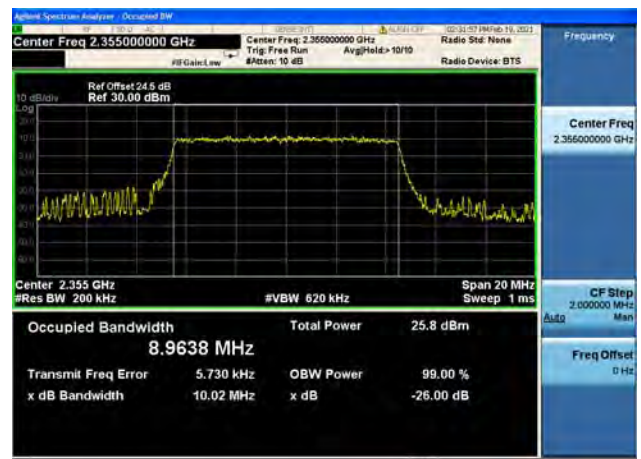
Band40/ Block B / 5MHz / High CH / 16QAM



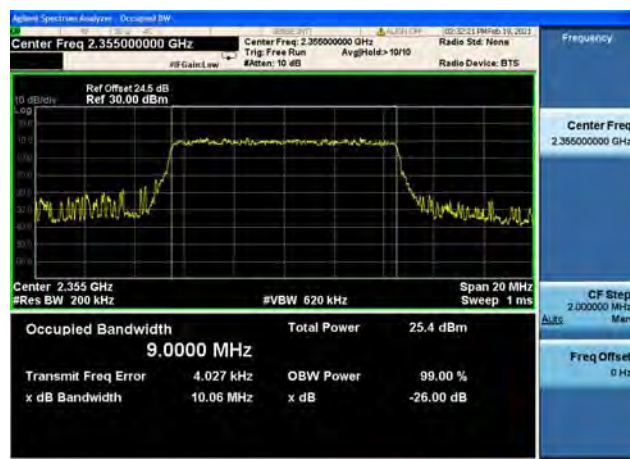
Band40/ Block B / 5MHz / High CH / 64QAM



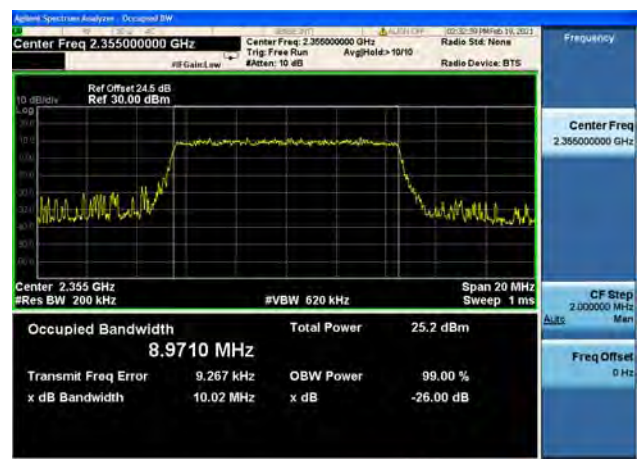
Band40/ Block B / 10MHz / Mid CH / QPSK



Band40/ Block B / 10MHz / Mid CH / 16QAM

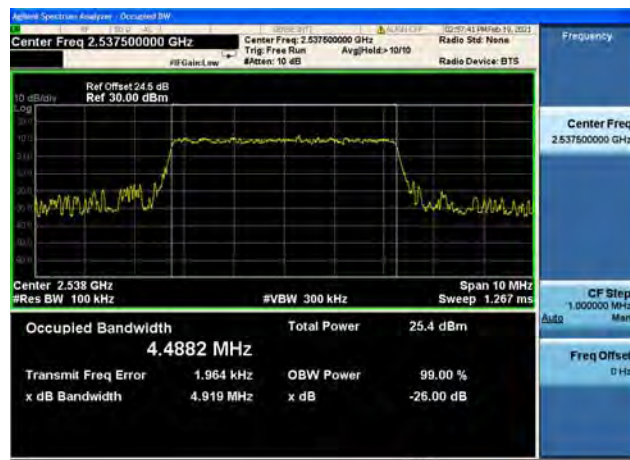


Band40/ Block B / 10MHz / Mid CH / 64QAM

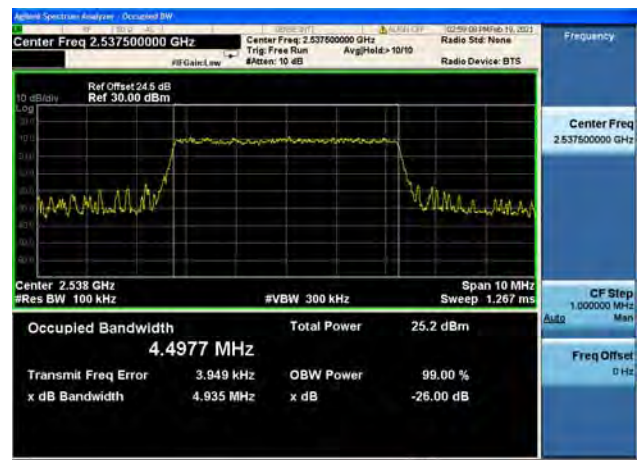




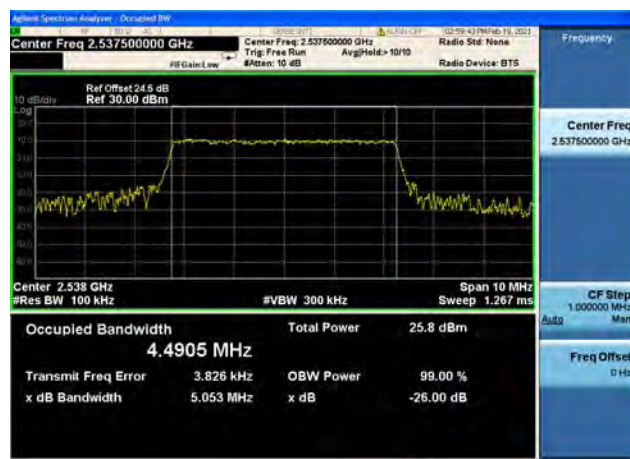
Band41 / 5MHz / Low CH / QPSK



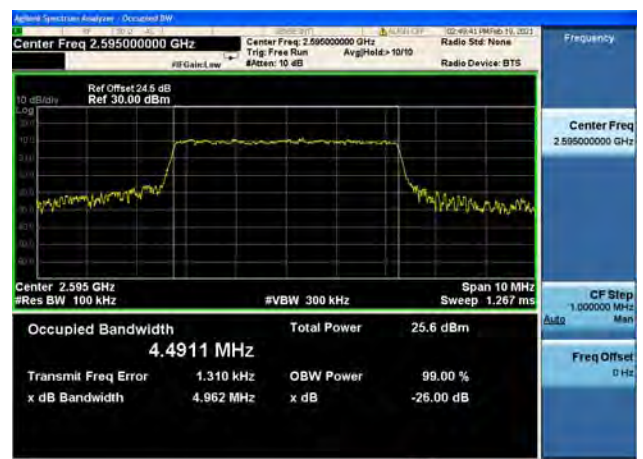
Band41 / 5MHz / Low CH / 16QAM



Band41 / 5MHz / Low CH / 64QAM



Band41 / 5MHz / Mid CH / QPSK



Band41 / 5MHz / Mid CH / 16QAM



Band41 / 5MHz / Mid CH / 64QAM

