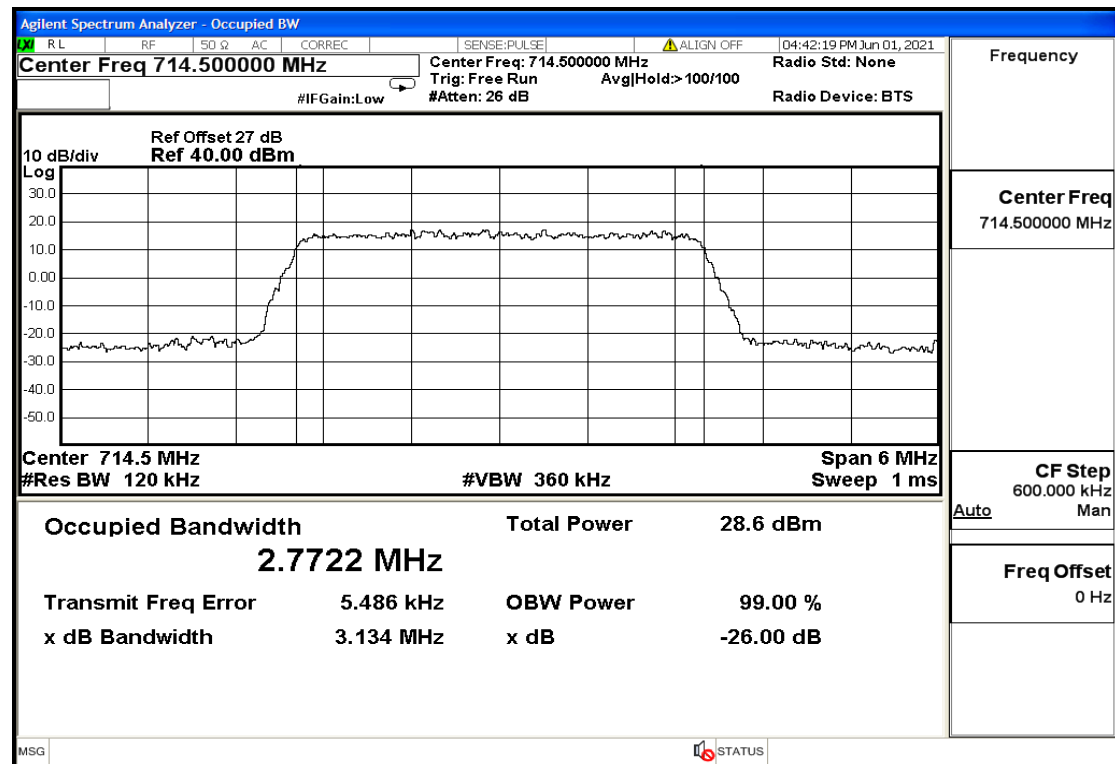
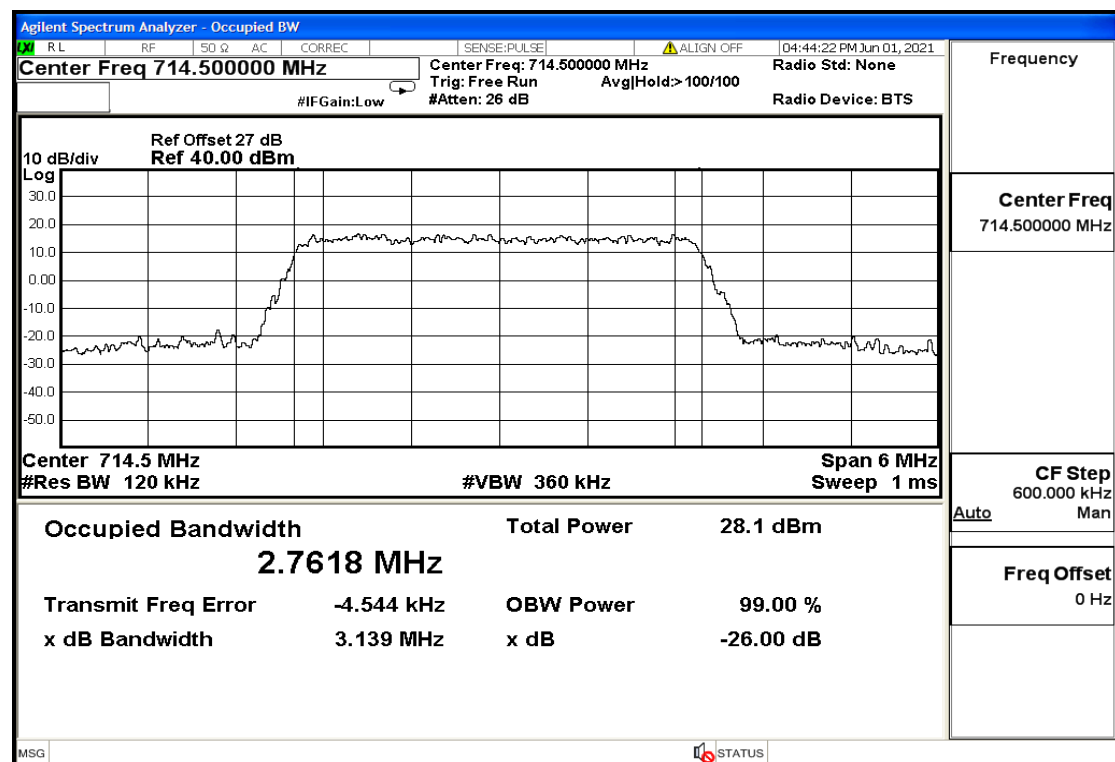


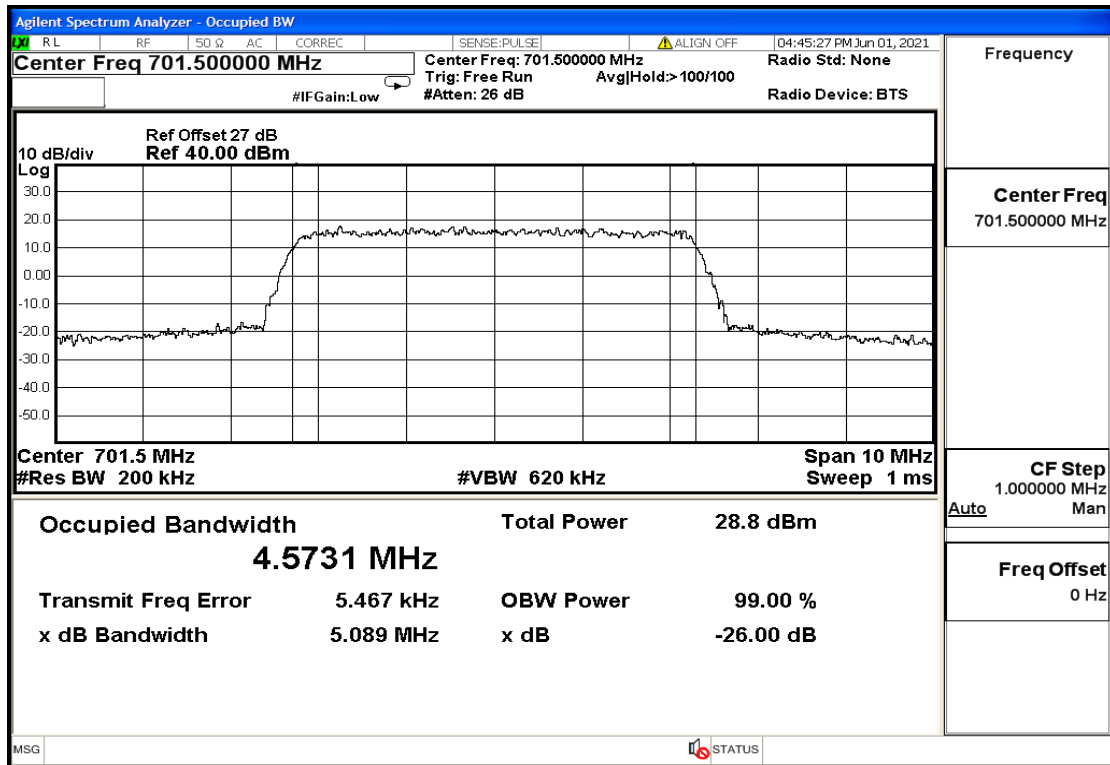
Band12-3-714.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



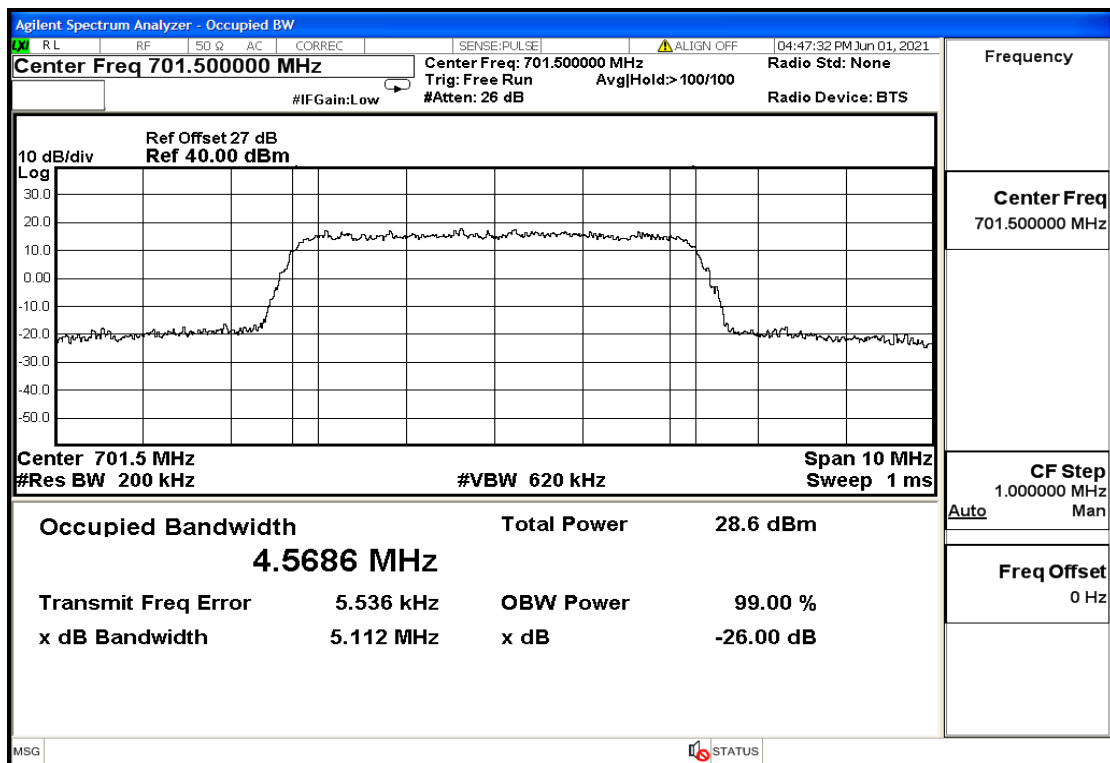
Band12-3-714.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



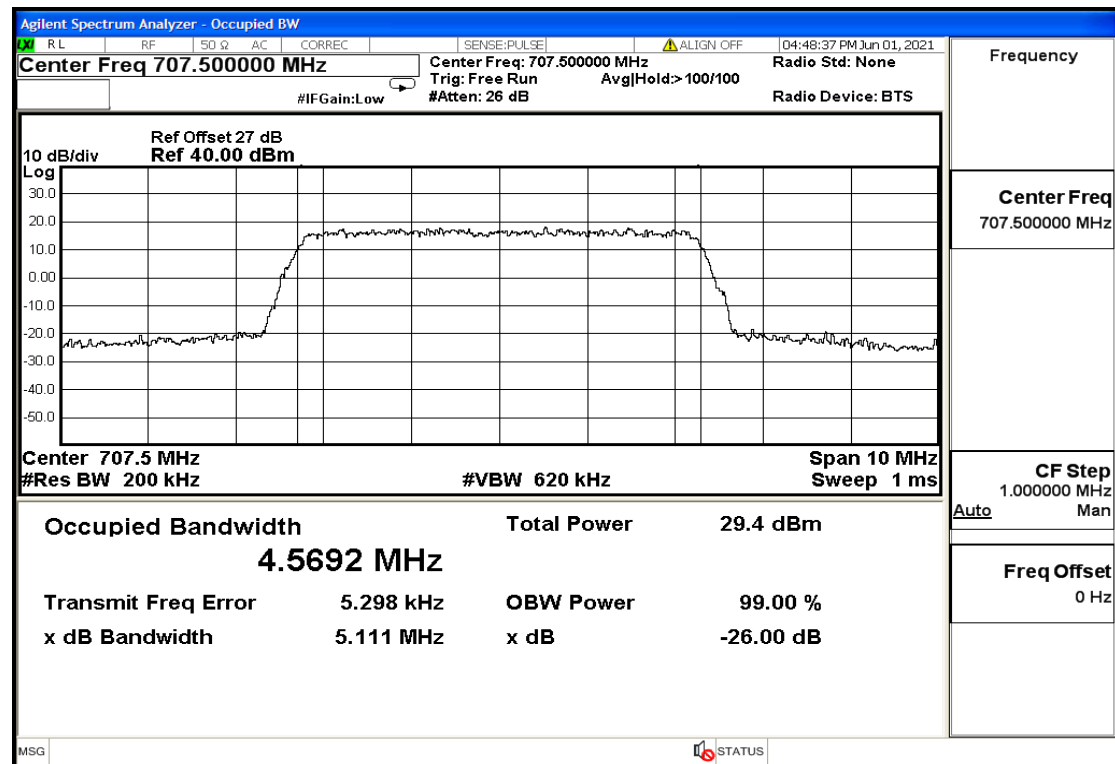
Band12-5-701.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



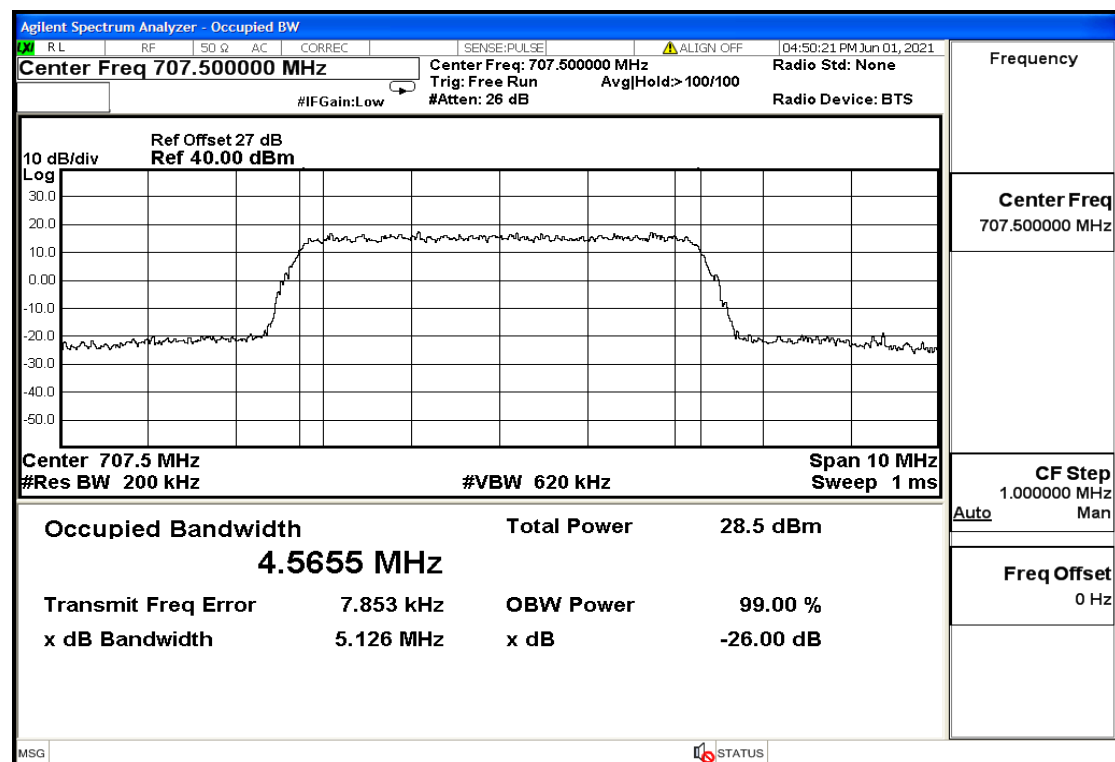
Band12-5-701.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



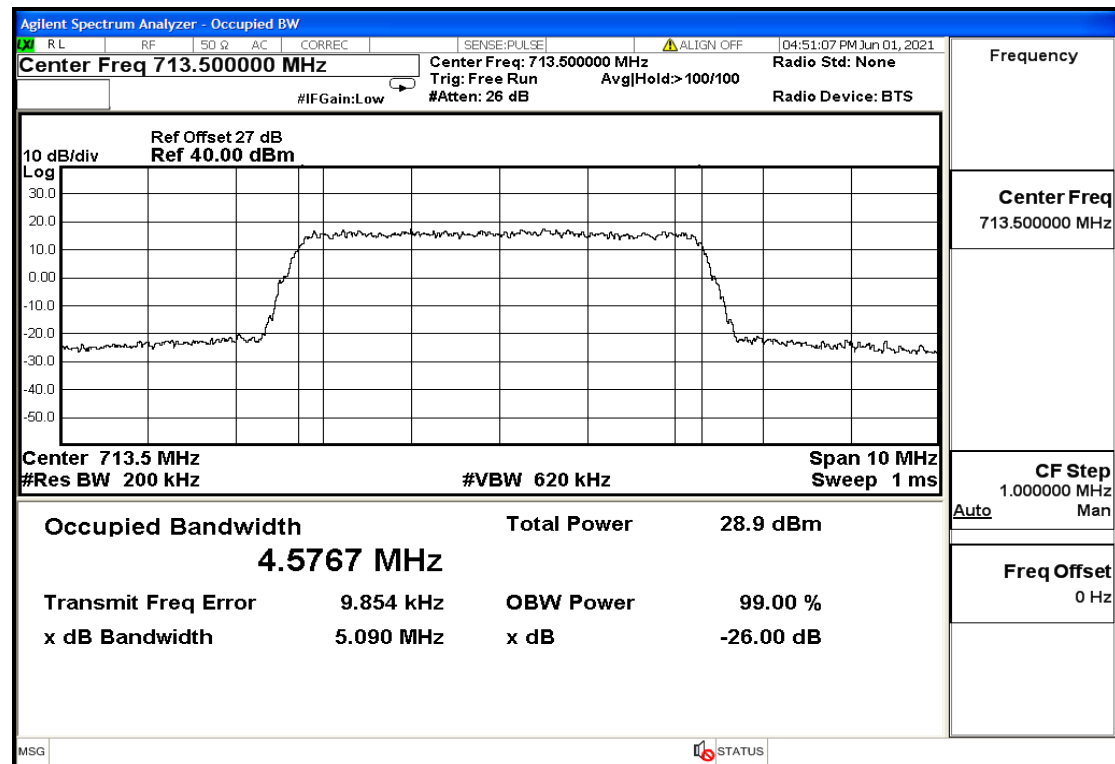
Band12-5-707.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



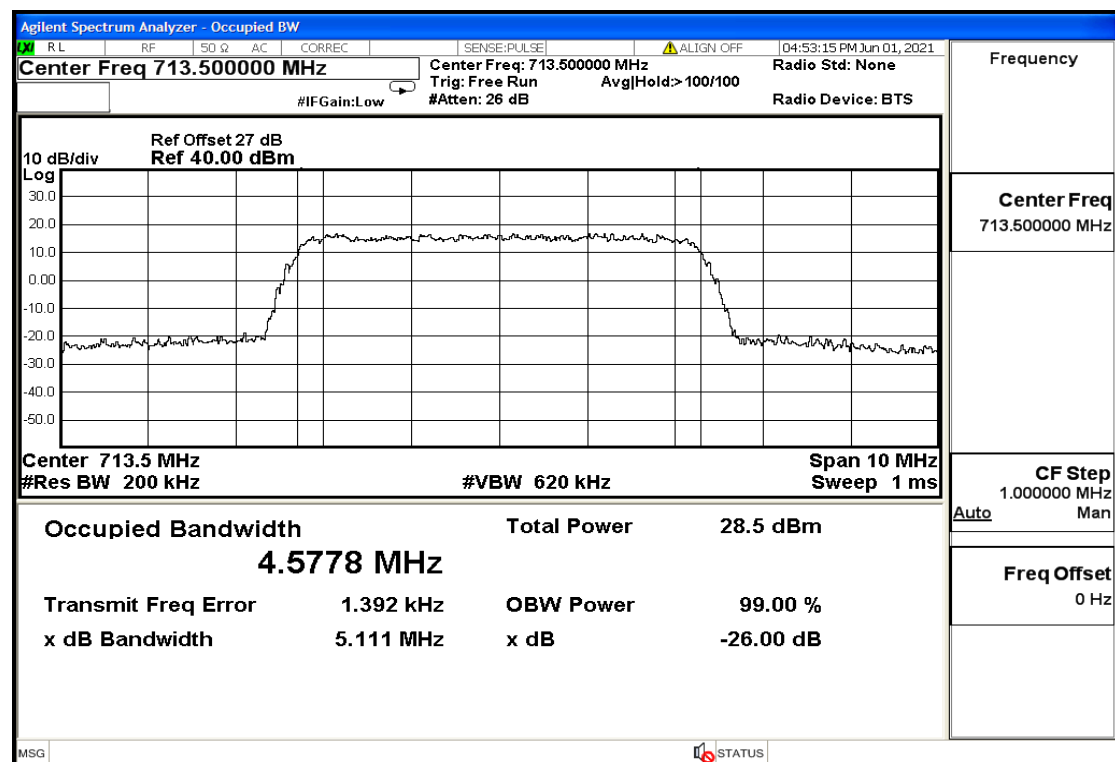
Band12-5-707.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



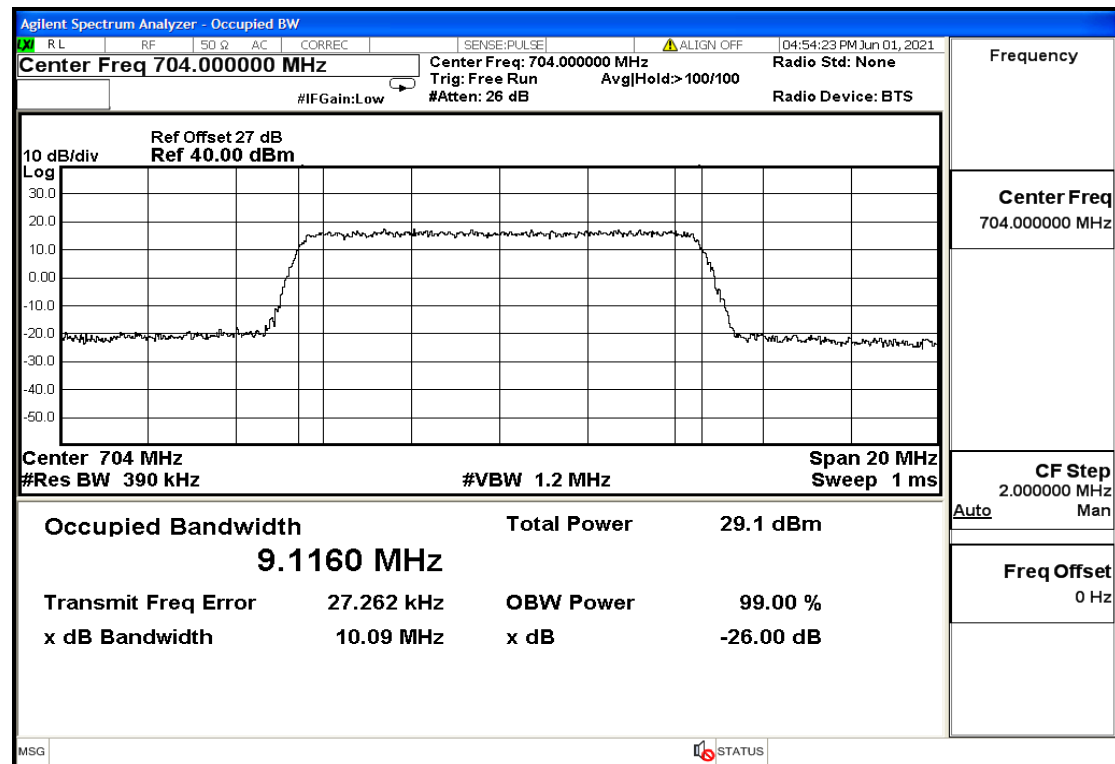
Band12-5-713.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



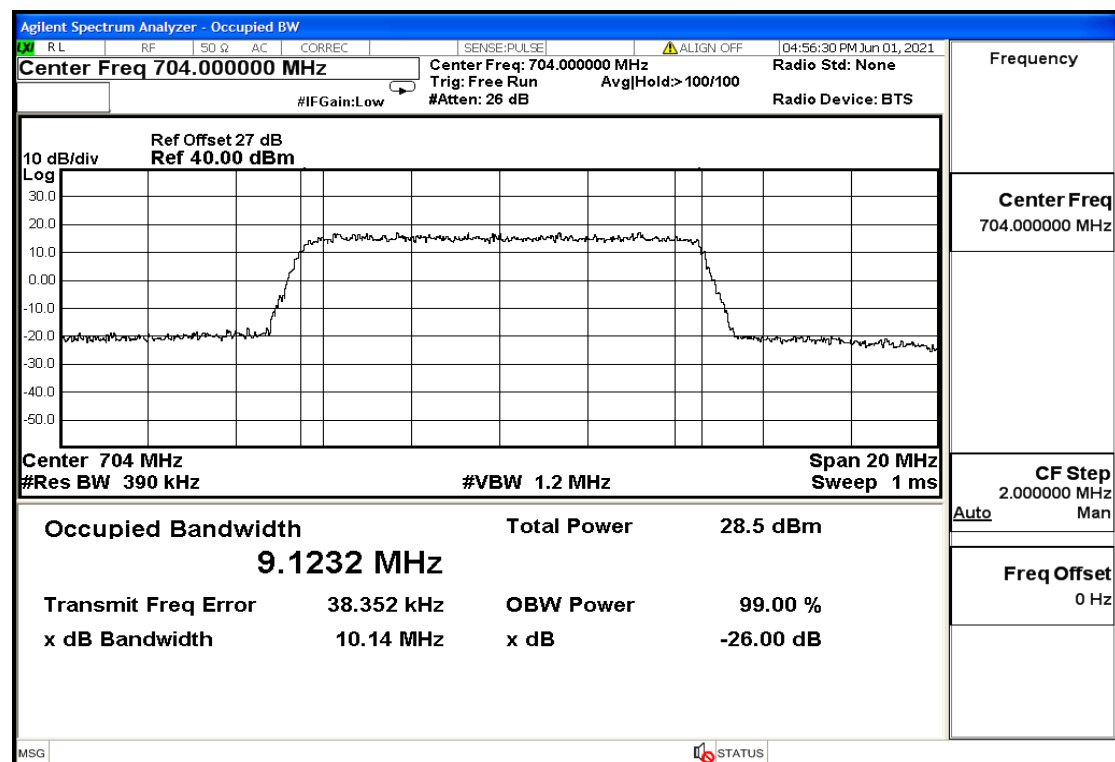
Band12-5-713.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



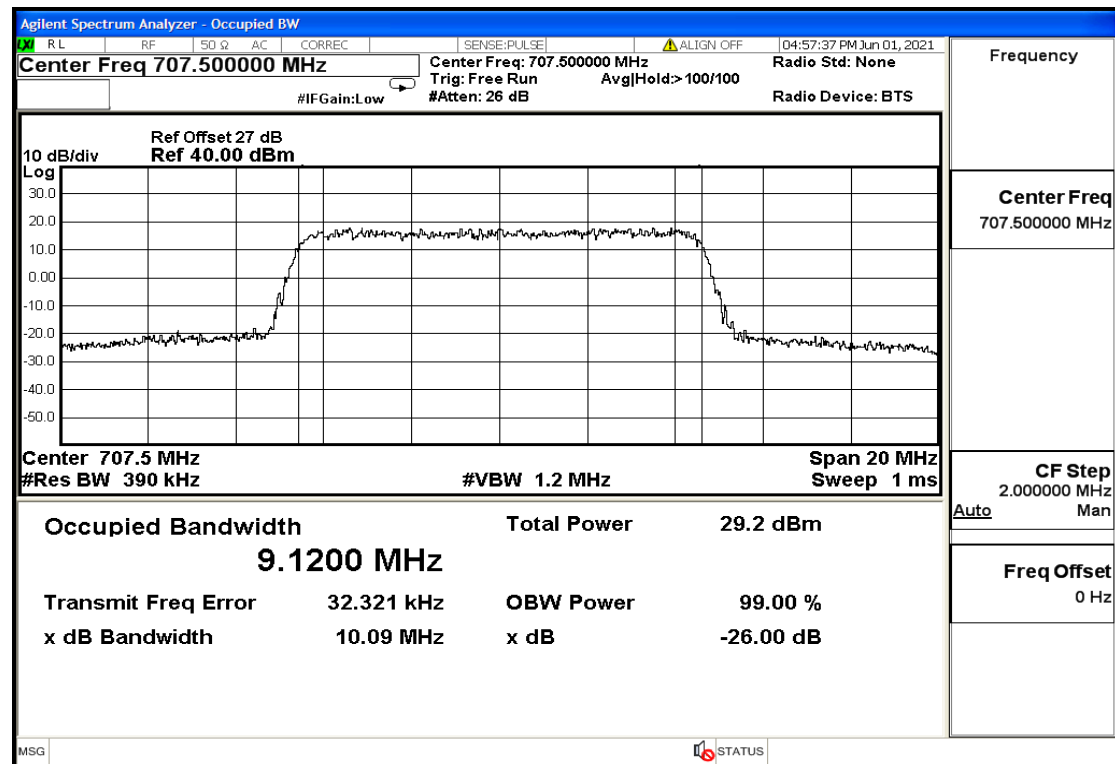
Band12-10-704-QPSK-50#LOW@26dB and 99PCT Bandwidth



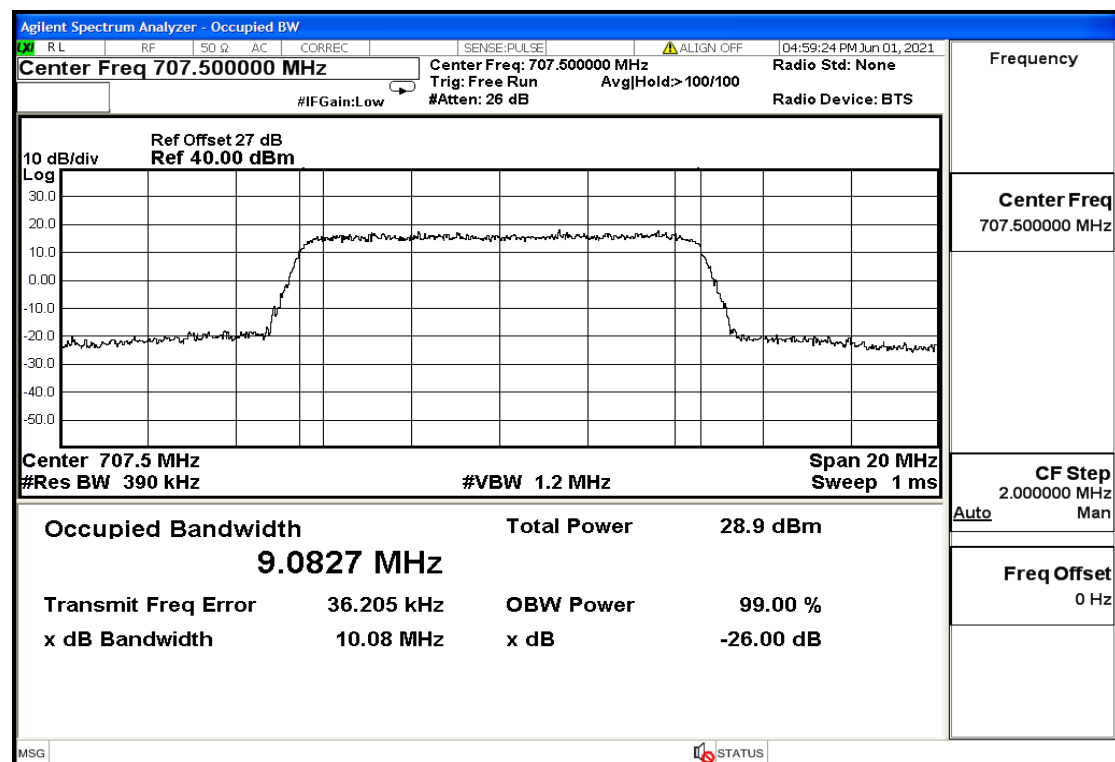
Band12-10-704-16QAM-50#LOW@26dB and 99PCT Bandwidth



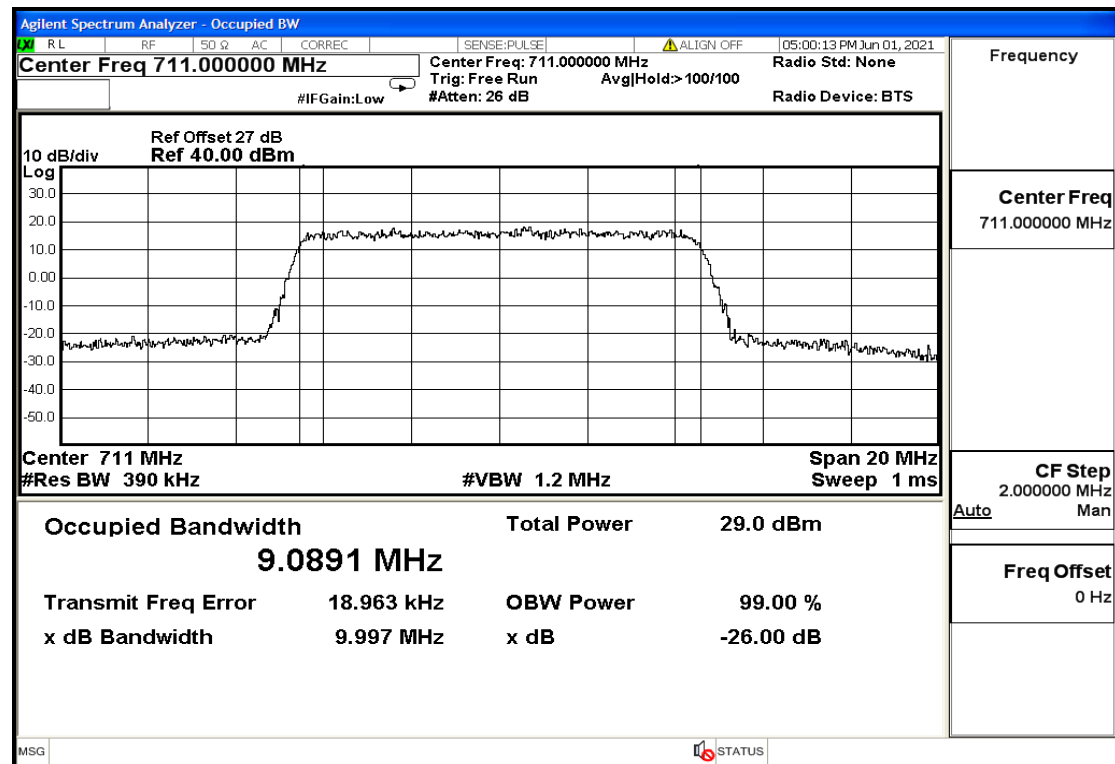
Band12-10-707.5-QPSK-50#LOW@26dB and 99PCT Bandwidth



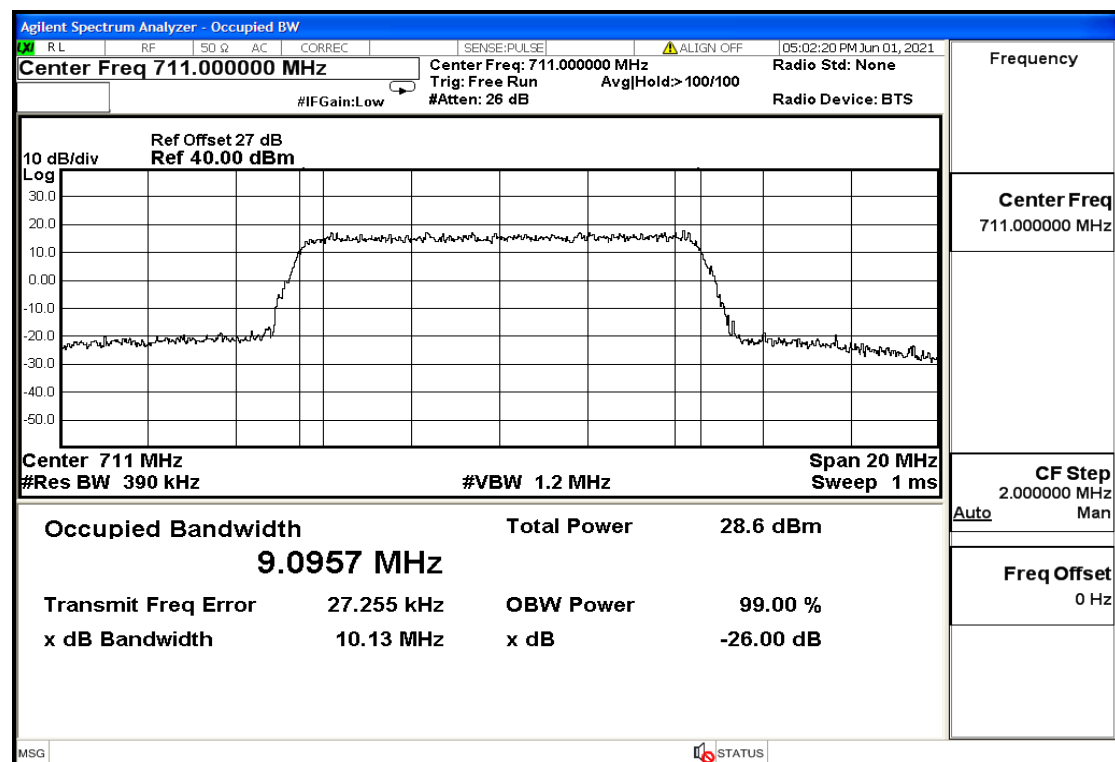
Band12-10-707.5-16QAM-50#LOW@26dB and 99PCT Bandwidth



Band12-10-711-QPSK-50#LOW@26dB and 99PCT Bandwidth



Band12-10-711-16QAM-50#LOW@26dB and 99PCT Bandwidth



Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0698	PASS
40	Normal Voltage	0.0370	
30	Normal Voltage	0.0176	
20(Ref.)	Normal Voltage	0.0252	
10	Normal Voltage	0.0568	
0	Normal Voltage	0.0182	
-10	Normal Voltage	0.0409	
-20	Normal Voltage	0.0393	
-30	Normal Voltage	0.0189	
20	Maximum Voltage	0.0187	
20	Normal Voltage	0.0298	
20	Battery End Point	0.0594	

Peak and Average Power

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Average Power	Peak Power	Peak to Average(dB)	limit(dB)	AntGain(dBi)	ERP/EIRP(dBm)	Limit(dBm)	Conclusion
Band12	1.4	699.7	QPSK	6	LOW	21.59	27.75	6.16	13	-2.78	16.66	34.8	Pass
Band12	1.4	699.7	QPSK	3	LOW	22.69	28.23	5.54	13	-2.78	17.76	34.8	Pass
Band12	1.4	699.7	QPSK	3	MID	22.67	28.14	5.47	13	-2.78	17.74	34.8	Pass
Band12	1.4	699.7	QPSK	3	HIGH	22.75	28.02	5.27	13	-2.78	17.82	34.8	Pass
Band12	1.4	699.7	QPSK	1	LOW	22.81	27.93	5.12	13	-2.78	17.88	34.8	Pass
Band12	1.4	699.7	QPSK	1	MID	22.83	27.91	5.08	13	-2.78	17.9	34.8	Pass
Band12	1.4	699.7	QPSK	1	HIGH	22.93	27.85	4.92	13	-2.78	18	34.8	Pass
Band12	1.4	699.7	16QAM	6	LOW	20.78	27.69	6.91	13	-2.78	15.85	34.8	Pass
Band12	1.4	699.7	16QAM	3	LOW	21.83	27.37	5.54	13	-2.78	16.9	34.8	Pass
Band12	1.4	699.7	16QAM	3	MID	21.83	27.37	5.54	13	-2.78	16.9	34.8	Pass
Band12	1.4	699.7	16QAM	3	HIGH	21.81	27.27	5.46	13	-2.78	16.88	34.8	Pass
Band12	1.4	699.7	16QAM	1	LOW	22.09	27.08	4.99	13	-2.78	17.16	34.8	Pass
Band12	1.4	699.7	16QAM	1	MID	22.37	27.13	4.76	13	-2.78	17.44	34.8	Pass
Band12	1.4	699.7	16QAM	1	HIGH	22.28	27.05	4.77	13	-2.78	17.35	34.8	Pass
Band12	1.4	707.5	QPSK	6	LOW	21.97	27.74	5.77	13	-2.78	17.04	34.8	Pass
Band12	1.4	707.5	QPSK	3	LOW	22.7	28.23	5.53	13	-2.78	17.77	34.8	Pass
Band12	1.4	707.5	QPSK	3	MID	22.7	28.2	5.5	13	-2.78	17.77	34.8	Pass
Band12	1.4	707.5	QPSK	3	HIGH	22.58	28.19	5.61	13	-2.78	17.65	34.8	Pass
Band12	1.4	707.5	QPSK	1	LOW	22.62	27.79	5.17	13	-2.78	17.69	34.8	Pass
Band12	1.4	707.5	QPSK	1	MID	22.69	27.84	5.15	13	-2.78	17.76	34.8	Pass
Band12	1.4	707.5	QPSK	1	HIGH	22.72	27.92	5.2	13	-2.78	17.79	34.8	Pass
Band12	1.4	707.5	16QAM	6	LOW	21.15	28.1	6.95	13	-2.78	16.22	34.8	Pass
Band12	1.4	707.5	16QAM	3	LOW	22.09	28.21	6.12	13	-2.78	17.16	34.8	Pass
Band12	1.4	707.5	16QAM	3	MID	21.96	28.15	6.19	13	-2.78	17.03	34.8	Pass
Band12	1.4	707.5	16QAM	3	HIGH	22.02	28.26	6.24	13	-2.78	17.09	34.8	Pass
Band12	1.4	707.5	16QAM	1	LOW	21.97	26.96	4.99	13	-2.78	17.04	34.8	Pass
Band12	1.4	707.5	16QAM	1	MID	22.18	27.08	4.9	13	-2.78	17.25	34.8	Pass
Band12	1.4	707.5	16QAM	1	HIGH	22.34	27.24	4.9	13	-2.78	17.41	34.8	Pass
Band12	1.4	715.3	QPSK	6	LOW	21.58	27.37	5.79	13	-2.78	16.65	34.8	Pass
Band12	1.4	715.3	QPSK	3	LOW	22.55	27.82	5.27	13	-2.78	17.62	34.8	Pass
Band12	1.4	715.3	QPSK	3	MID	22.8	27.91	5.11	13	-2.78	17.87	34.8	Pass
Band12	1.4	715.3	QPSK	3	HIGH	22.52	27.66	5.14	13	-2.78	17.59	34.8	Pass
Band12	1.4	715.3	QPSK	1	LOW	22.59	27.21	4.62	13	-2.78	17.66	34.8	Pass
Band12	1.4	715.3	QPSK	1	MID	22.64	27.16	4.52	13	-2.78	17.71	34.8	Pass
Band12	1.4	715.3	QPSK	1	HIGH	22.55	27.1	4.55	13	-2.78	17.62	34.8	Pass
Band12	1.4	715.3	16QAM	6	LOW	21	27.59	6.59	13	-2.78	16.07	34.8	Pass
Band12	1.4	715.3	16QAM	3	LOW	21.69	27.68	5.99	13	-2.78	16.76	34.8	Pass
Band12	1.4	715.3	16QAM	3	MID	21.53	27.63	6.1	13	-2.78	16.6	34.8	Pass
Band12	1.4	715.3	16QAM	3	HIGH	21.78	27.65	5.87	13	-2.78	16.85	34.8	Pass
Band12	1.4	715.3	16QAM	1	LOW	21.48	26.61	5.13	13	-2.78	16.55	34.8	Pass

Band12	1.4	715.3	16QAM	1	MID	21.68	26.65	4.97	13	-2.78	16.75	34.8	Pass
Band12	1.4	715.3	16QAM	1	HIGH	21.57	26.61	5.04	13	-2.78	16.64	34.8	Pass
Band12	3	700.5	QPSK	15	LOW	21.68	27.96	6.28	13	-2.78	16.75	34.8	Pass
Band12	3	700.5	QPSK	8	LOW	21.74	27.37	5.63	13	-2.78	16.81	34.8	Pass
Band12	3	700.5	QPSK	8	MID	21.74	27.22	5.48	13	-2.78	16.81	34.8	Pass
Band12	3	700.5	QPSK	8	HIGH	21.71	27.41	5.7	13	-2.78	16.78	34.8	Pass
Band12	3	700.5	QPSK	1	LOW	22.82	27.19	4.37	13	-2.78	17.89	34.8	Pass
Band12	3	700.5	QPSK	1	MID	22.82	27.08	4.26	13	-2.78	17.89	34.8	Pass
Band12	3	700.5	QPSK	1	HIGH	22.86	27.19	4.33	13	-2.78	17.93	34.8	Pass
Band12	3	700.5	16QAM	15	LOW	20.62	27.61	6.99	13	-2.78	15.69	34.8	Pass
Band12	3	700.5	16QAM	8	LOW	20.73	27.35	6.62	13	-2.78	15.8	34.8	Pass
Band12	3	700.5	16QAM	8	MID	20.73	27.32	6.59	13	-2.78	15.8	34.8	Pass
Band12	3	700.5	16QAM	8	HIGH	20.96	27.46	6.5	13	-2.78	16.03	34.8	Pass
Band12	3	700.5	16QAM	1	LOW	21.97	27.44	5.47	13	-2.78	17.04	34.8	Pass
Band12	3	700.5	16QAM	1	MID	22.16	27.34	5.18	13	-2.78	17.23	34.8	Pass
Band12	3	700.5	16QAM	1	HIGH	22.06	27.42	5.36	13	-2.78	17.13	34.8	Pass
Band12	3	707.5	QPSK	15	LOW	22.01	28.15	6.14	13	-2.78	17.08	34.8	Pass
Band12	3	707.5	QPSK	8	LOW	21.52	27.69	6.17	13	-2.78	16.59	34.8	Pass
Band12	3	707.5	QPSK	8	MID	21.54	27.7	6.16	13	-2.78	16.61	34.8	Pass
Band12	3	707.5	QPSK	8	HIGH	22.06	28.13	6.07	13	-2.78	17.13	34.8	Pass
Band12	3	707.5	QPSK	1	LOW	22.85	27.87	5.02	13	-2.78	17.92	34.8	Pass
Band12	3	707.5	QPSK	1	MID	22.71	27.86	5.15	13	-2.78	17.78	34.8	Pass
Band12	3	707.5	QPSK	1	HIGH	22.82	27.87	5.05	13	-2.78	17.89	34.8	Pass
Band12	3	707.5	16QAM	15	LOW	21.17	28.65	7.48	13	-2.78	16.24	34.8	Pass
Band12	3	707.5	16QAM	8	LOW	21.06	27.73	6.67	13	-2.78	16.13	34.8	Pass
Band12	3	707.5	16QAM	8	MID	21.06	27.76	6.7	13	-2.78	16.13	34.8	Pass
Band12	3	707.5	16QAM	8	HIGH	20.93	27.54	6.61	13	-2.78	16	34.8	Pass
Band12	3	707.5	16QAM	1	LOW	22.3	27.49	5.19	13	-2.78	17.37	34.8	Pass
Band12	3	707.5	16QAM	1	MID	22.64	27.64	5	13	-2.78	17.71	34.8	Pass
Band12	3	707.5	16QAM	1	HIGH	22.61	27.58	4.97	13	-2.78	17.68	34.8	Pass
Band12	3	714.5	QPSK	15	LOW	21.38	28.31	6.93	13	-2.78	16.45	34.8	Pass
Band12	3	714.5	QPSK	8	LOW	21.46	27.73	6.27	13	-2.78	16.53	34.8	Pass
Band12	3	714.5	QPSK	8	MID	21.47	27.52	6.05	13	-2.78	16.54	34.8	Pass
Band12	3	714.5	QPSK	8	HIGH	21.67	27.75	6.08	13	-2.78	16.74	34.8	Pass
Band12	3	714.5	QPSK	1	LOW	22.64	27.44	4.8	13	-2.78	17.71	34.8	Pass
Band12	3	714.5	QPSK	1	MID	22.7	27.35	4.65	13	-2.78	17.77	34.8	Pass
Band12	3	714.5	QPSK	1	HIGH	22.75	27.17	4.42	13	-2.78	17.82	34.8	Pass
Band12	3	714.5	16QAM	15	LOW	21.2	27.93	6.73	13	-2.78	16.27	34.8	Pass
Band12	3	714.5	16QAM	8	LOW	21.27	27.71	6.44	13	-2.78	16.34	34.8	Pass
Band12	3	714.5	16QAM	8	MID	21.28	27.61	6.33	13	-2.78	16.35	34.8	Pass
Band12	3	714.5	16QAM	8	HIGH	20.93	27.15	6.22	13	-2.78	16	34.8	Pass
Band12	3	714.5	16QAM	1	LOW	21.45	26.69	5.24	13	-2.78	16.52	34.8	Pass
Band12	3	714.5	16QAM	1	MID	21.4	26.58	5.18	13	-2.78	16.47	34.8	Pass
Band12	3	714.5	16QAM	1	HIGH	21.43	26.47	5.04	13	-2.78	16.5	34.8	Pass
Band12	5	701.5	QPSK	25	LOW	21.59	27.64	6.05	13	-2.78	16.66	34.8	Pass
Band12	5	701.5	QPSK	12	LOW	21.74	27.26	5.52	13	-2.78	16.81	34.8	Pass

Band12	5	701.5	QPSK	12	MID	21.74	27.41	5.67	13	-2.78	16.81	34.8	Pass
Band12	5	701.5	QPSK	12	HIGH	21.74	27.4	5.66	13	-2.78	16.81	34.8	Pass
Band12	5	701.5	QPSK	1	LOW	22.71	28.13	5.42	13	-2.78	17.78	34.8	Pass
Band12	5	701.5	QPSK	1	MID	22.63	28.06	5.43	13	-2.78	17.7	34.8	Pass
Band12	5	701.5	QPSK	1	HIGH	22.87	28.45	5.58	13	-2.78	17.94	34.8	Pass
Band12	5	701.5	16QAM	25	LOW	20.95	28.07	7.12	13	-2.78	16.02	34.8	Pass
Band12	5	701.5	16QAM	12	LOW	20.54	27.73	7.19	13	-2.78	15.61	34.8	Pass
Band12	5	701.5	16QAM	12	MID	20.53	27.6	7.07	13	-2.78	15.6	34.8	Pass
Band12	5	701.5	16QAM	12	HIGH	20.64	27.71	7.07	13	-2.78	15.71	34.8	Pass
Band12	5	701.5	16QAM	1	LOW	21.01	26.79	5.78	13	-2.78	16.08	34.8	Pass
Band12	5	701.5	16QAM	1	MID	20.89	26.7	5.81	13	-2.78	15.96	34.8	Pass
Band12	5	701.5	16QAM	1	HIGH	20.85	26.78	5.93	13	-2.78	15.92	34.8	Pass
Band12	5	707.5	QPSK	25	LOW	21.89	28.55	6.66	13	-2.78	16.96	34.8	Pass
Band12	5	707.5	QPSK	12	LOW	21.54	28.25	6.71	13	-2.78	16.61	34.8	Pass
Band12	5	707.5	QPSK	12	MID	21.54	28.25	6.71	13	-2.78	16.61	34.8	Pass
Band12	5	707.5	QPSK	12	HIGH	21.94	28.48	6.54	13	-2.78	17.01	34.8	Pass
Band12	5	707.5	QPSK	1	LOW	22.75	27.69	4.94	13	-2.78	17.82	34.8	Pass
Band12	5	707.5	QPSK	1	MID	22.6	27.75	5.15	13	-2.78	17.67	34.8	Pass
Band12	5	707.5	QPSK	1	HIGH	22.85	27.78	4.93	13	-2.78	17.92	34.8	Pass
Band12	5	707.5	16QAM	25	LOW	21.14	28.18	7.04	13	-2.78	16.21	34.8	Pass
Band12	5	707.5	16QAM	12	LOW	21.11	27.71	6.6	13	-2.78	16.18	34.8	Pass
Band12	5	707.5	16QAM	12	MID	21.12	27.91	6.79	13	-2.78	16.19	34.8	Pass
Band12	5	707.5	16QAM	12	HIGH	20.96	27.78	6.82	13	-2.78	16.03	34.8	Pass
Band12	5	707.5	16QAM	1	LOW	21.78	27.46	5.68	13	-2.78	16.85	34.8	Pass
Band12	5	707.5	16QAM	1	MID	22.05	27.68	5.63	13	-2.78	17.12	34.8	Pass
Band12	5	707.5	16QAM	1	HIGH	21.55	27.45	5.9	13	-2.78	16.62	34.8	Pass
Band12	5	713.5	QPSK	25	LOW	21.37	27.57	6.2	13	-2.78	16.44	34.8	Pass
Band12	5	713.5	QPSK	12	LOW	22.01	27.87	5.86	13	-2.78	17.08	34.8	Pass
Band12	5	713.5	QPSK	12	MID	22	27.8	5.8	13	-2.78	17.07	34.8	Pass
Band12	5	713.5	QPSK	12	HIGH	21.6	27.42	5.82	13	-2.78	16.67	34.8	Pass
Band12	5	713.5	QPSK	1	LOW	22.78	27.94	5.16	13	-2.78	17.85	34.8	Pass
Band12	5	713.5	QPSK	1	MID	22.68	27.7	5.02	13	-2.78	17.75	34.8	Pass
Band12	5	713.5	QPSK	1	HIGH	22.51	27.47	4.96	13	-2.78	17.58	34.8	Pass
Band12	5	713.5	16QAM	25	LOW	20.9	28.5	7.6	13	-2.78	15.97	34.8	Pass
Band12	5	713.5	16QAM	12	LOW	20.92	27.72	6.8	13	-2.78	15.99	34.8	Pass
Band12	5	713.5	16QAM	12	MID	20.93	27.68	6.75	13	-2.78	16	34.8	Pass
Band12	5	713.5	16QAM	12	HIGH	20.94	27.67	6.73	13	-2.78	16.01	34.8	Pass
Band12	5	713.5	16QAM	1	LOW	21.65	27.72	6.07	13	-2.78	16.72	34.8	Pass
Band12	5	713.5	16QAM	1	MID	21.09	27.32	6.23	13	-2.78	16.16	34.8	Pass
Band12	5	713.5	16QAM	1	HIGH	21.37	27.15	5.78	13	-2.78	16.44	34.8	Pass
Band12	10	704	QPSK	50	LOW	21.46	27.68	6.22	13	-2.78	16.53	34.8	Pass
Band12	10	704	QPSK	25	LOW	21.73	27.71	5.98	13	-2.78	16.8	34.8	Pass
Band12	10	704	QPSK	25	MID	21.73	27.71	5.98	13	-2.78	16.8	34.8	Pass
Band12	10	704	QPSK	25	HIGH	21.69	28.14	6.45	13	-2.78	16.76	34.8	Pass
Band12	10	704	QPSK	1	LOW	22.55	27.02	4.47	13	-2.78	17.62	34.8	Pass
Band12	10	704	QPSK	1	MID	22.8	27.44	4.64	13	-2.78	17.87	34.8	Pass

Band12	10	704	QPSK	1	HIGH	22.64	27.59	4.95	13	-2.78	17.71	34.8	Pass
Band12	10	704	16QAM	50	LOW	20.83	28.4	7.57	13	-2.78	15.9	34.8	Pass
Band12	10	704	16QAM	25	LOW	20.65	27.46	6.81	13	-2.78	15.72	34.8	Pass
Band12	10	704	16QAM	25	MID	20.65	27.52	6.87	13	-2.78	15.72	34.8	Pass
Band12	10	704	16QAM	25	HIGH	20.96	27.98	7.02	13	-2.78	16.03	34.8	Pass
Band12	10	704	16QAM	1	LOW	21.8	27.36	5.56	13	-2.78	16.87	34.8	Pass
Band12	10	704	16QAM	1	MID	21.68	27.63	5.95	13	-2.78	16.75	34.8	Pass
Band12	10	704	16QAM	1	HIGH	22.15	28.08	5.93	13	-2.78	17.22	34.8	Pass
Band12	10	707.5	QPSK	50	LOW	21.96	28.36	6.4	13	-2.78	17.03	34.8	Pass
Band12	10	707.5	QPSK	25	LOW	21.57	27.85	6.28	13	-2.78	16.64	34.8	Pass
Band12	10	707.5	QPSK	25	MID	21.58	27.65	6.07	13	-2.78	16.65	34.8	Pass
Band12	10	707.5	QPSK	25	HIGH	21.7	28.13	6.43	13	-2.78	16.77	34.8	Pass
Band12	10	707.5	QPSK	1	LOW	22.61	27.47	4.86	13	-2.78	17.68	34.8	Pass
Band12	10	707.5	QPSK	1	MID	22.6	27.79	5.19	13	-2.78	17.67	34.8	Pass
Band12	10	707.5	QPSK	1	HIGH	22.72	27.75	5.03	13	-2.78	17.79	34.8	Pass
Band12	10	707.5	16QAM	50	LOW	21.23	28.42	7.19	13	-2.78	16.3	34.8	Pass
Band12	10	707.5	16QAM	25	LOW	21.03	28.16	7.13	13	-2.78	16.1	34.8	Pass
Band12	10	707.5	16QAM	25	MID	21.04	28.16	7.12	13	-2.78	16.11	34.8	Pass
Band12	10	707.5	16QAM	25	HIGH	21.01	28.4	7.39	13	-2.78	16.08	34.8	Pass
Band12	10	707.5	16QAM	1	LOW	21.85	27.65	5.8	13	-2.78	16.92	34.8	Pass
Band12	10	707.5	16QAM	1	MID	22.19	27.11	4.92	13	-2.78	17.26	34.8	Pass
Band12	10	707.5	16QAM	1	HIGH	22.32	28	5.68	13	-2.78	17.39	34.8	Pass
Band12	10	711	QPSK	50	LOW	21.72	27.6	5.88	13	-2.78	16.79	34.8	Pass
Band12	10	711	QPSK	25	LOW	22.07	28.63	6.56	13	-2.78	17.14	34.8	Pass
Band12	10	711	QPSK	25	MID	22.06	28.48	6.42	13	-2.78	17.13	34.8	Pass
Band12	10	711	QPSK	25	HIGH	21.52	28.19	6.67	13	-2.78	16.59	34.8	Pass
Band12	10	711	QPSK	1	LOW	22.99	27.84	4.85	13	-2.78	18.06	34.8	Pass
Band12	10	711	QPSK	1	MID	22.77	27.74	4.97	13	-2.78	17.84	34.8	Pass
Band12	10	711	QPSK	1	HIGH	22.85	27.27	4.42	13	-2.78	17.92	34.8	Pass
Band12	10	711	16QAM	50	LOW	21.1	28.84	7.74	13	-2.78	16.17	34.8	Pass
Band12	10	711	16QAM	25	LOW	21.03	28.28	7.25	13	-2.78	16.1	34.8	Pass
Band12	10	711	16QAM	25	MID	21.04	28.22	7.18	13	-2.78	16.11	34.8	Pass
Band12	10	711	16QAM	25	HIGH	21.08	28.13	7.05	13	-2.78	16.15	34.8	Pass
Band12	10	711	16QAM	1	LOW	21.42	26.74	5.32	13	-2.78	16.49	34.8	Pass
Band12	10	711	16QAM	1	MID	21.56	26.85	5.29	13	-2.78	16.63	34.8	Pass
Band12	10	711	16QAM	1	HIGH	21.7	26.67	4.97	13	-2.78	16.77	34.8	Pass