

Band 4 Appendix B Section B.3: 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.22300	0.3474	PASS
		1	3	0.22861	0.3658	PASS
		1	5	0.22224	0.3320	PASS
		3	0	0.54985	0.7039	PASS
		3	2	0.55345	0.7682	PASS
		3	3	0.54869	0.6993	PASS
		6	0	1.0773	1.213	PASS
	MCH	1	0	0.22364	0.3537	PASS
		1	3	0.23071	0.3702	PASS
		1	5	0.22163	0.3444	PASS
		3	0	0.54964	0.6948	PASS
		3	2	0.55466	0.7520	PASS
		3	3	0.55420	0.7196	PASS
		6	0	1.0757	1.212	PASS
	HCH	1	0	0.22020	0.3314	PASS
		1	3	0.23502	0.3785	PASS
		1	5	0.21768	0.3497	PASS
		3	0	0.55284	0.6925	PASS
		3	2	0.55156	0.7608	PASS
		3	3	0.54996	0.7078	PASS
		6	0	1.0795	1.227	PASS
16QAM	LCH	1	0	0.22235	0.3382	PASS
		1	3	0.22988	0.3803	PASS
		1	5	0.22126	0.3548	PASS
		3	0	0.55117	0.6979	PASS
		3	2	0.55618	0.7661	PASS
		3	3	0.55209	0.7014	PASS
		6	0	1.0767	1.225	PASS
	MCH	1	0	0.22051	0.3421	PASS
		1	3	0.22709	0.3688	PASS
		1	5	0.22786	0.3383	PASS

		3	0	0.55165	0.7028	PASS
		3	2	0.55877	0.7440	PASS
		3	3	0.55440	0.7074	PASS
		6	0	1.0804	1.222	PASS
HCH	HCH	1	0	0.22168	0.3213	PASS
		1	3	0.23042	0.3414	PASS
		1	5	0.22254	0.3416	PASS
		3	0	0.55315	0.7199	PASS
		3	2	0.55898	0.7764	PASS
		3	3	0.55545	0.7122	PASS
		6	0	1.0785	1.216	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.24676	0.3853	PASS
		1	7	0.26547	0.4274	PASS
		1	14	0.25358	0.3828	PASS
		8	0	1.4418	1.653	PASS
		8	4	1.4504	1.720	PASS
		8	7	1.4460	1.667	PASS
		15	0	2.6793	2.871	PASS
	MCH	1	0	0.24583	0.3844	PASS
		1	7	0.26086	0.4331	PASS
		1	14	0.24495	0.3946	PASS
		8	0	1.4388	1.637	PASS
		8	4	1.4501	1.726	PASS
		8	7	1.4449	1.641	PASS
		15	0	2.6828	2.872	PASS
	HCH	1	0	0.23985	0.3599	PASS
		1	7	0.25748	0.4064	PASS
		1	14	0.24399	0.3728	PASS
		8	0	1.4450	1.644	PASS
		8	4	1.4435	1.696	PASS
		8	7	1.4480	1.652	PASS
		15	0	2.6871	2.869	PASS
16QAM	LCH	1	0	0.24665	0.3807	PASS

		1	7	0.27096	0.4470	PASS
		1	14	0.25437	0.4145	PASS
		8	0	1.4501	1.680	PASS
		8	4	1.4517	1.749	PASS
		8	7	1.4508	1.666	PASS
		15	0	2.6867	2.860	PASS
	MCH	1	0	0.24774	0.421	PASS
		1	7	0.26533	0.4399	PASS
		1	14	0.25353	0.4183	PASS
		8	0	1.4495	1.692	PASS
		8	4	1.4539	1.744	PASS
		8	7	1.4489	1.625	PASS
		15	0	2.684	2.867	PASS
	HCH	1	0	0.24979	0.397	PASS
		1	7	0.26780	0.4817	PASS
		1	14	0.24986	0.3961	PASS
		8	0	1.4476	1.663	PASS
		8	4	1.4528	1.768	PASS
		8	7	1.4468	1.660	PASS
		15	0	2.6853	2.856	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.32921	0.5410	PASS
		1	12	0.33345	0.5711	PASS
		1	24	0.31438	0.4789	PASS
		12	0	2.1721	2.551	PASS
		12	6	2.1811	2.706	PASS
		12	13	2.1732	2.632	PASS
		25	0	4.4704	4.804	PASS
	MCH	1	0	0.31628	0.5105	PASS
		1	12	0.33584	0.5509	PASS
		1	24	0.31954	0.4765	PASS
		12	0	2.1764	2.600	PASS
		12	6	2.1861	2.736	PASS
		12	13	2.1802	2.626	PASS
		25	0	4.4737	4.882	PASS

		HCH	1	0	0.32996	0.5524	PASS
		HCH	1	12	0.35018	0.5842	PASS
		HCH	1	24	0.33232	0.5445	PASS
		HCH	12	0	2.1799	2.589	PASS
		HCH	12	6	2.1810	2.574	PASS
		HCH	12	13	2.1797	2.551	PASS
		HCH	25	0	4.4725	4.782	PASS
		LCH	1	0	0.32720	0.5956	PASS
		LCH	1	12	0.34901	0.6016	PASS
		LCH	1	24	0.32011	0.4892	PASS
		LCH	12	0	2.1854	2.590	PASS
		LCH	12	6	2.1805	2.802	PASS
		LCH	12	13	2.1736	2.510	PASS
		LCH	25	0	4.4736	4.823	PASS
		MCH	1	0	0.32163	0.5377	PASS
		MCH	1	12	0.35325	0.5970	PASS
		MCH	1	24	0.32688	0.5258	PASS
		MCH	12	0	2.1804	2.571	PASS
		MCH	12	6	2.1838	2.671	PASS
		MCH	12	13	2.1838	2.532	PASS
		MCH	25	0	4.4741	4.862	PASS
		HCH	1	0	0.32847	0.5193	PASS
		HCH	1	12	0.36341	0.5570	PASS
		HCH	1	24	0.34074	0.5460	PASS
		HCH	12	0	2.1772	2.532	PASS
		HCH	12	6	2.1734	2.631	PASS
		HCH	12	13	2.1788	2.581	PASS
		HCH	25	0	4.4722	4.823	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.41482	0.6694	PASS
		1	25	0.42984	0.6730	PASS
		1	49	0.41131	0.6229	PASS
		25	0	4.5091	4.965	PASS
		25	12	4.4989	5.050	PASS
		25	25	4.5054	5.026	PASS
		50	0	8.9329	9.409	PASS
	MCH	1	0	0.41288	0.6351	PASS

	16QAM	HCH	1	25	0.43163	0.7121	PASS
			1	49	0.41249	0.6168	PASS
			25	0	4.5179	4.985	PASS
			25	12	4.5277	5.066	PASS
			25	25	4.5216	4.999	PASS
			50	0	8.9524	9.480	PASS
		LCH	1	0	0.41945	0.6671	PASS
			1	25	0.43958	0.6896	PASS
			1	49	0.42826	0.6933	PASS
			25	0	4.5102	5.114	PASS
			25	12	4.5087	5.074	PASS
			25	25	4.5086	5.000	PASS
			50	0	8.9087	9.381	PASS
		MCH	1	0	0.41362	0.6178	PASS
			1	25	0.44548	0.6633	PASS
			1	49	0.43488	0.6466	PASS
			25	0	4.5150	5.122	PASS
			25	12	4.5195	5.156	PASS
			25	25	4.5112	5.106	PASS
			50	0	8.9315	9.452	PASS
		HCH	1	0	0.41956	0.6148	PASS
			1	25	0.44682	0.7250	PASS
			1	49	0.44125	0.6852	PASS
			25	0	4.5188	5.069	PASS
			25	12	4.5192	5.158	PASS
			25	25	4.5279	5.034	PASS
			50	0	8.9617	9.507	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.50269	0.7739	PASS

		1	37	0.52228	0.7925	PASS
		1	74	0.49856	0.7499	PASS
		37	0	6.4842	7.065	PASS
		37	18	6.4676	7.145	PASS
		37	38	6.4705	7.094	PASS
		75	0	13.358	14.01	PASS
		1	0	0.50353	0.7300	PASS
		1	37	0.51991	0.7670	PASS
		1	74	0.53101	0.7928	PASS
		37	0	6.4849	7.107	PASS
		37	18	6.4957	7.191	PASS
		37	38	6.4944	7.155	PASS
		75	0	13.447	14.05	PASS
		1	0	0.53526	0.7706	PASS
16QAM	HCH	1	37	0.53960	0.8135	PASS
		1	74	0.54391	0.7862	PASS
		37	0	6.5110	7.178	PASS
		37	18	6.4889	7.208	PASS
		37	38	6.4839	7.035	PASS
		75	0	13.370	14.05	PASS
		1	0	0.51615	0.7020	PASS
	LCH	1	37	0.52230	0.7817	PASS
		1	74	0.50107	0.7417	PASS
		37	0	6.4909	7.139	PASS
		37	18	6.4835	7.106	PASS
		37	38	6.4761	7.095	PASS
		75	0	13.343	13.99	PASS
		1	0	0.50612	0.7584	PASS
	MCH	1	37	0.53393	0.8001	PASS
		1	74	0.51786	0.7680	PASS
		37	0	6.5001	7.105	PASS
		37	18	6.5071	7.243	PASS
		37	38	6.5038	7.227	PASS
		75	0	13.432	14.04	PASS
		1	0	0.52963	0.7471	PASS
HCH	HCH	1	37	0.53275	0.8108	PASS
		1	74	0.53276	0.8019	PASS
		37	0	6.4968	7.139	PASS
		37	18	6.4977	7.233	PASS
		37	38	6.4879	7.129	PASS
		75	0	13.384	13.97	PASS

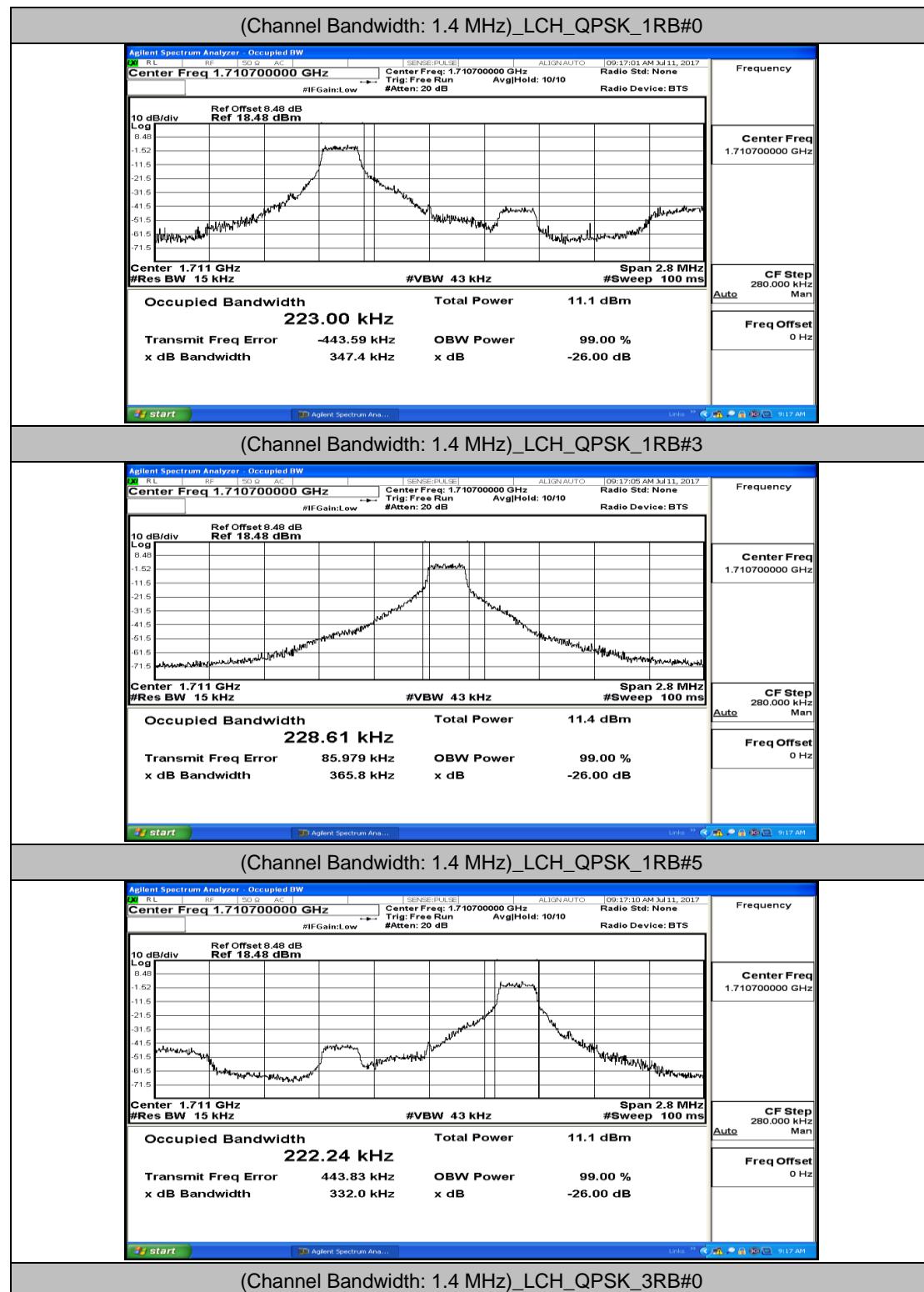
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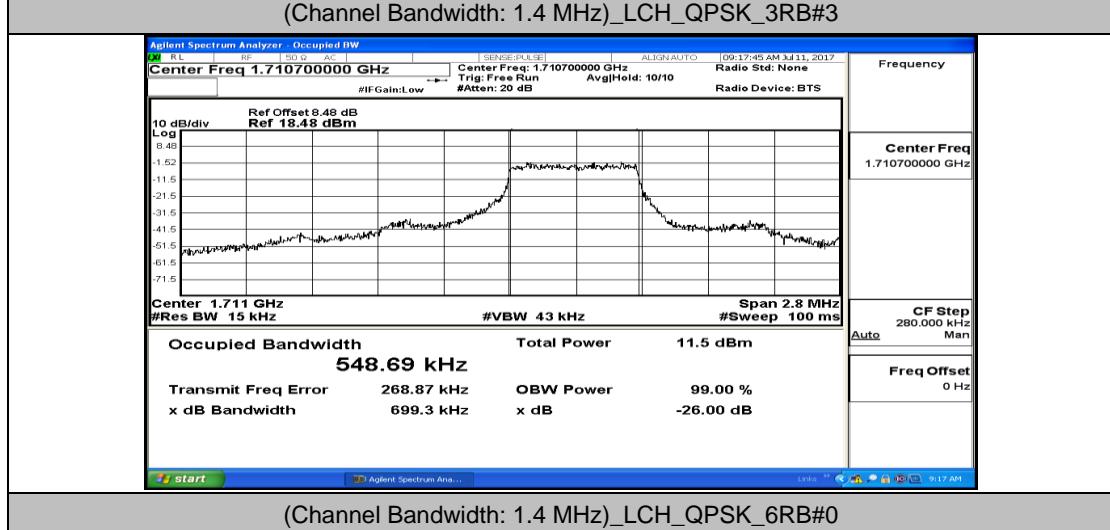
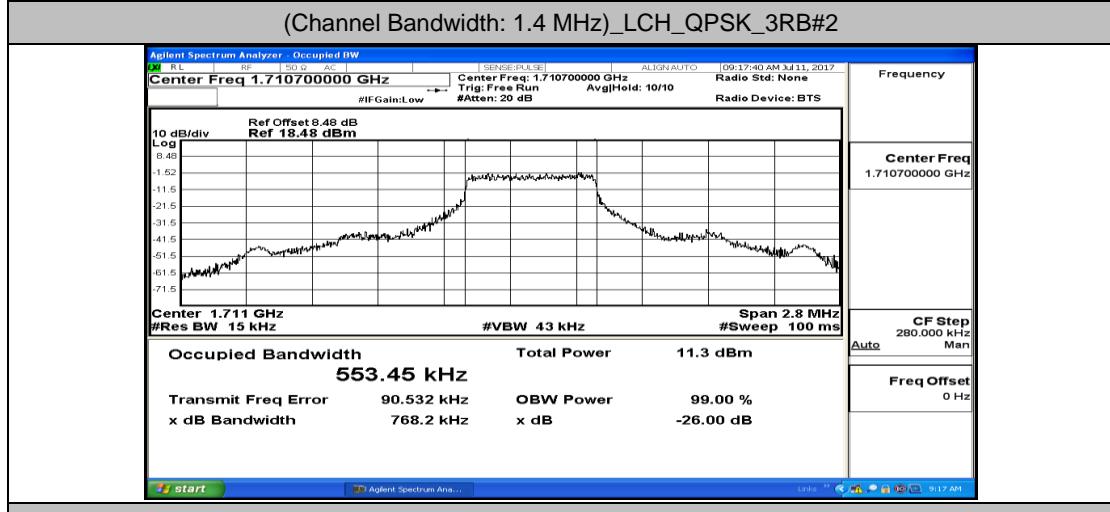
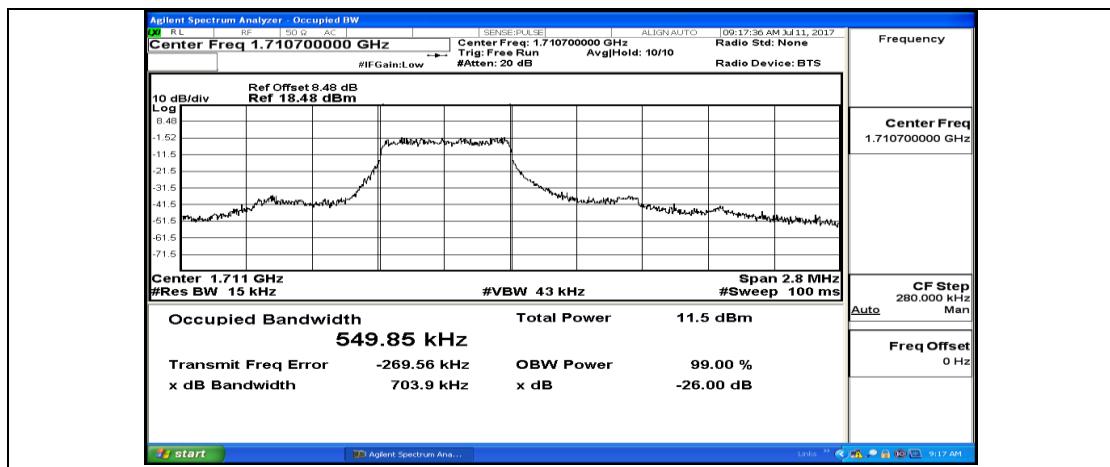
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.59720	0.8500	PASS
		1	50	0.60614	0.8952	PASS
		1	99	0.59874	0.9184	PASS
		50	0	8.9727	9.692	PASS
		50	25	8.9547	9.548	PASS
		50	50	8.9683	9.594	PASS
		100	0	17.753	18.49	PASS
	MCH	1	0	0.59710	0.8666	PASS
		1	50	0.61707	0.9237	PASS
		1	99	0.58556	0.8545	PASS
		50	0	8.9796	9.634	PASS
		50	25	9.0011	9.656	PASS
		50	50	9.0127	9.715	PASS
		100	0	17.917	18.62	PASS
	HCH	1	0	0.59549	0.8908	PASS
		1	50	0.61439	0.8963	PASS
		1	99	0.61400	0.9447	PASS
		50	0	9.0250	9.613	PASS
		50	25	9.0040	9.623	PASS
		50	50	8.9742	9.553	PASS
		100	0	17.852	18.56	PASS
16QAM	LCH	1	0	0.62951	0.8953	PASS
		1	50	0.59965	0.8801	PASS
		1	99	0.59300	0.8615	PASS
		50	0	8.9837	9.635	PASS
		50	25	8.9784	9.622	PASS
		50	50	8.9708	9.694	PASS
		100	0	17.753	18.56	PASS
	MCH	1	0	0.60912	0.9368	PASS
		1	50	0.59696	0.9074	PASS
		1	99	0.58946	0.8906	PASS
		50	0	8.9858	9.580	PASS
		50	25	9.0199	9.743	PASS
		50	50	9.0147	9.717	PASS
		100	0	17.914	18.70	PASS
	HCH	1	0	0.60164	0.9413	PASS

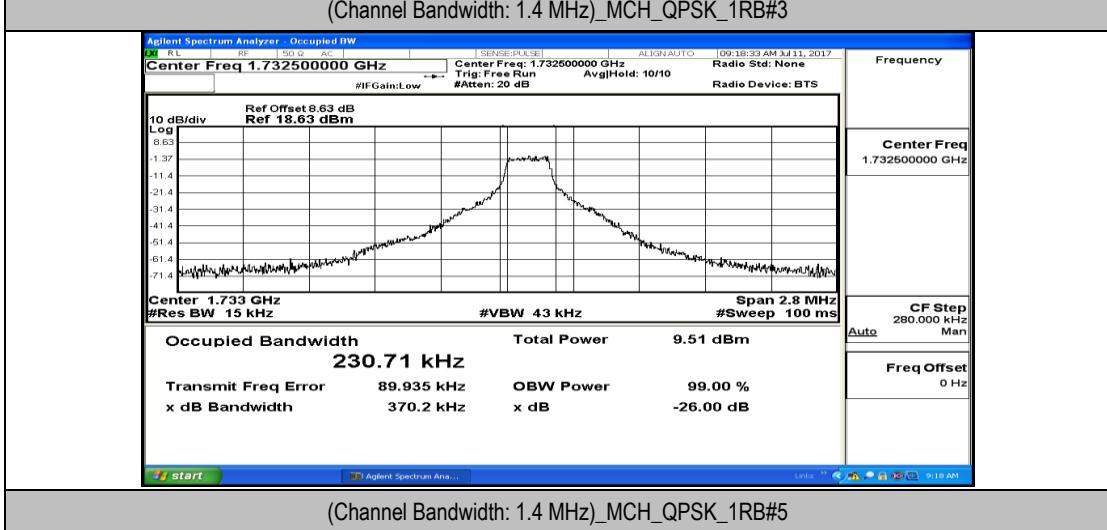
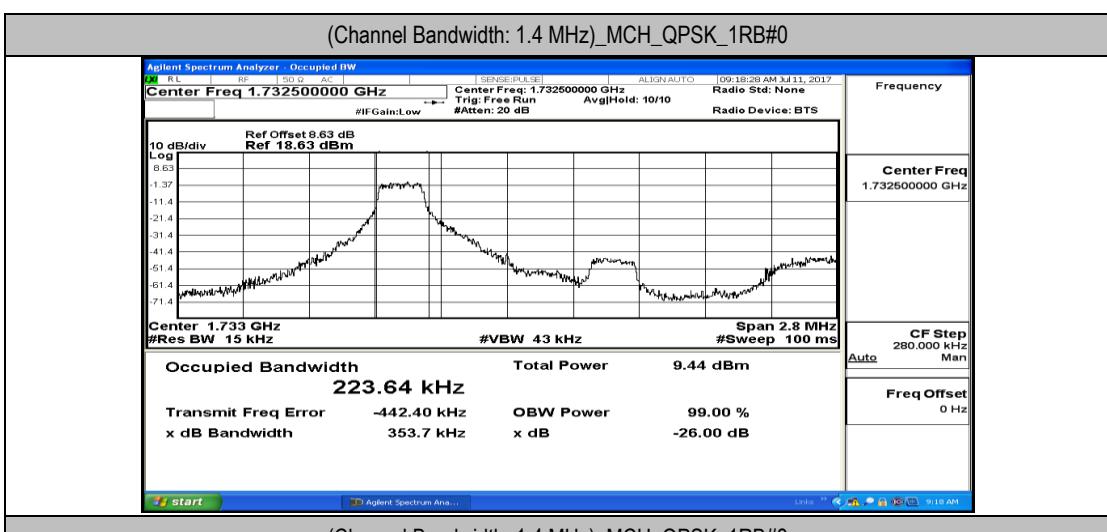
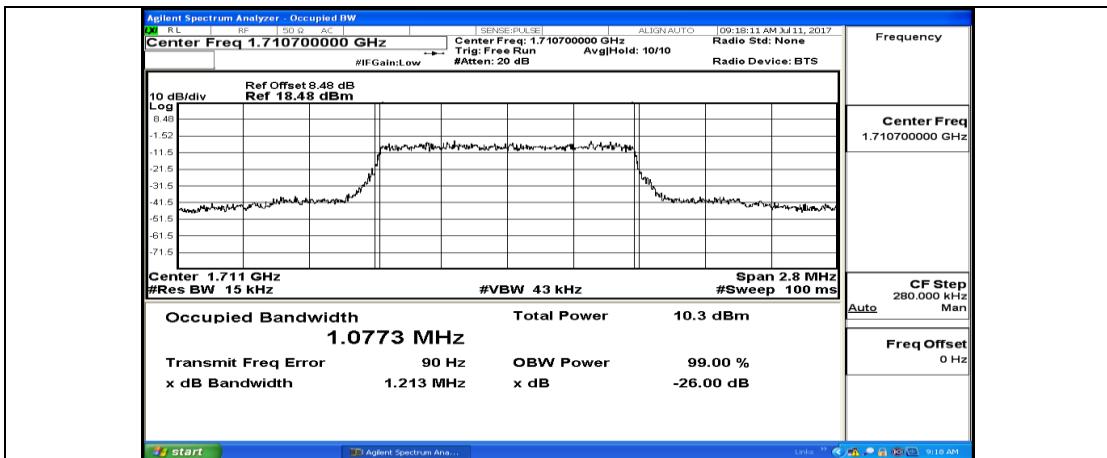
		1	50	0.63299	0.9206	PASS
		1	99	0.61017	0.8605	PASS
		50	0	9.0183	9.692	PASS
		50	25	9.0118	9.672	PASS
		50	50	8.9903	9.601	PASS
		100	0	17.876	18.61	PASS

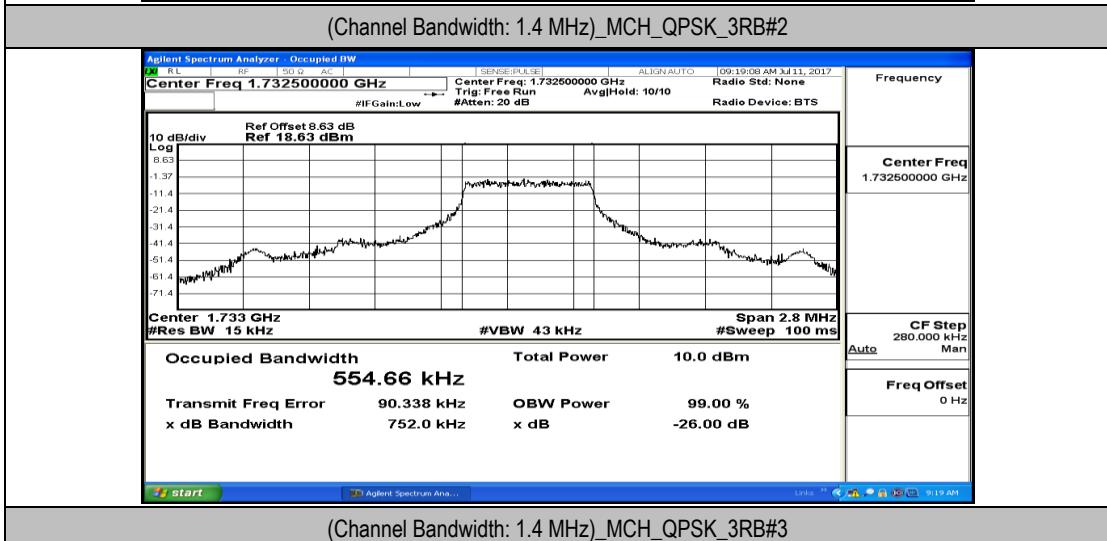
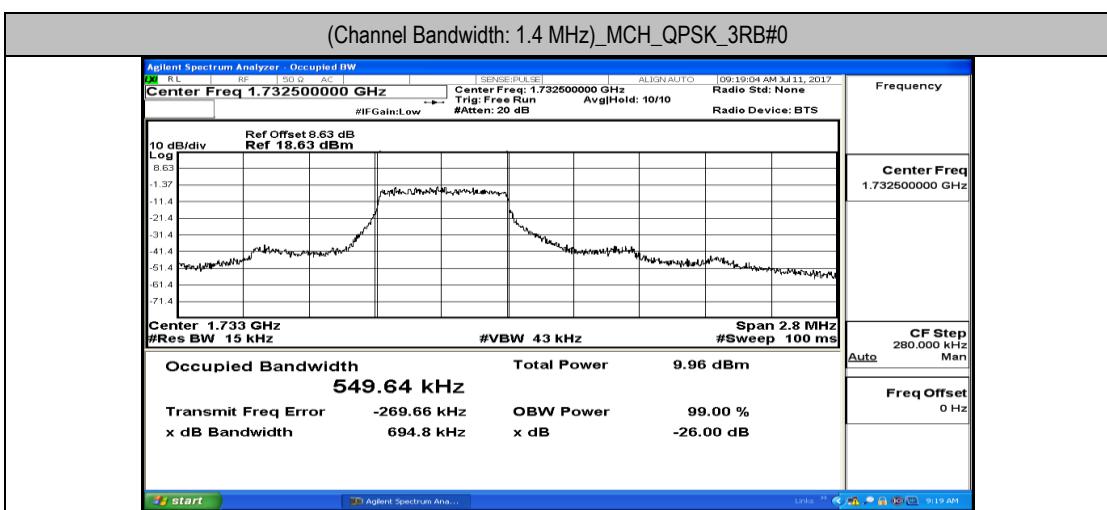
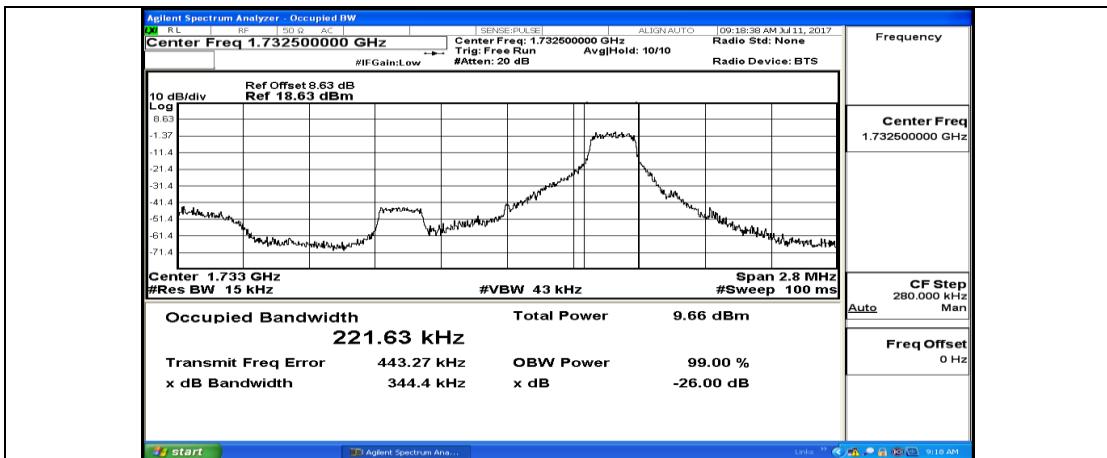
Test Graphs

Channel Bandwidth: 1.4 MHz

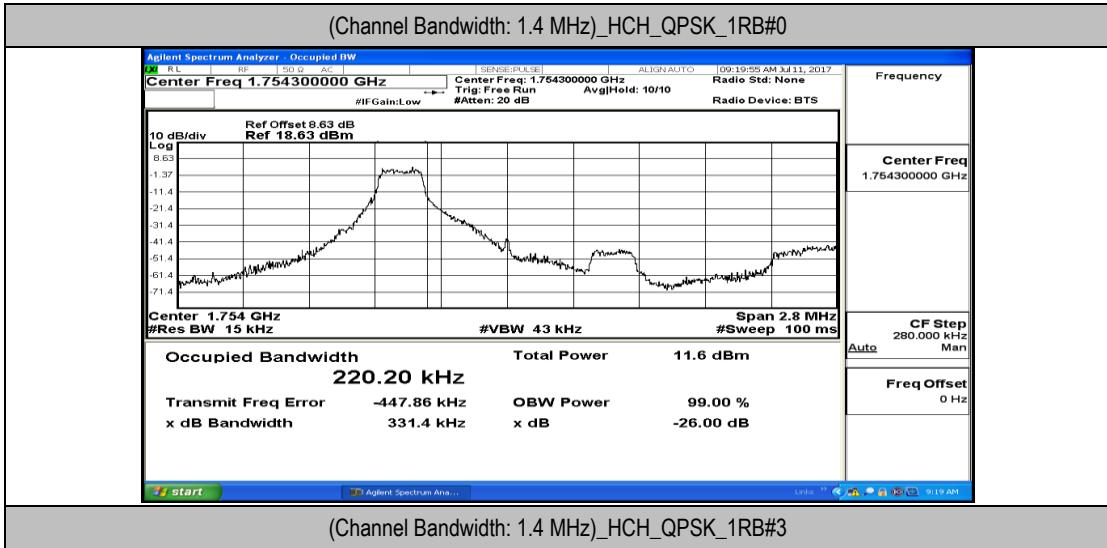
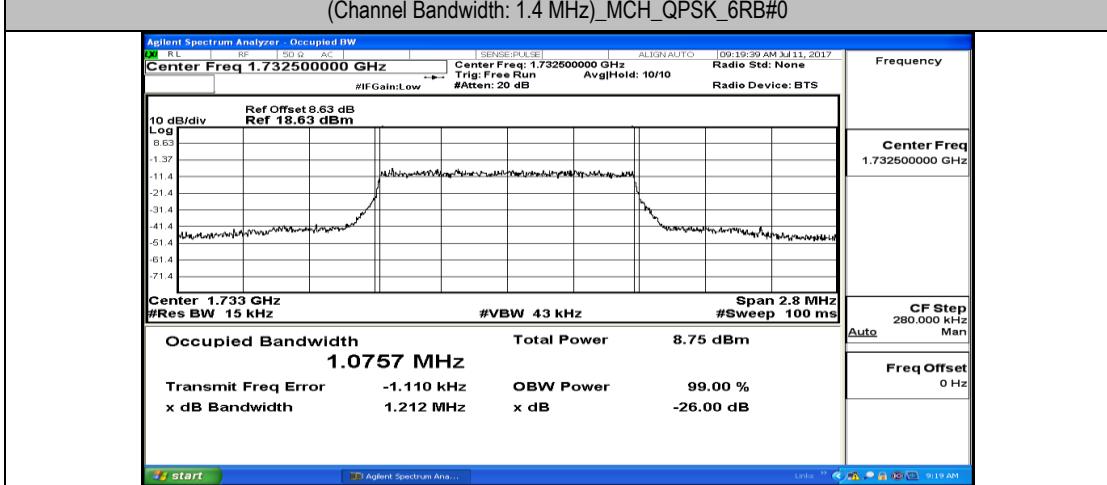
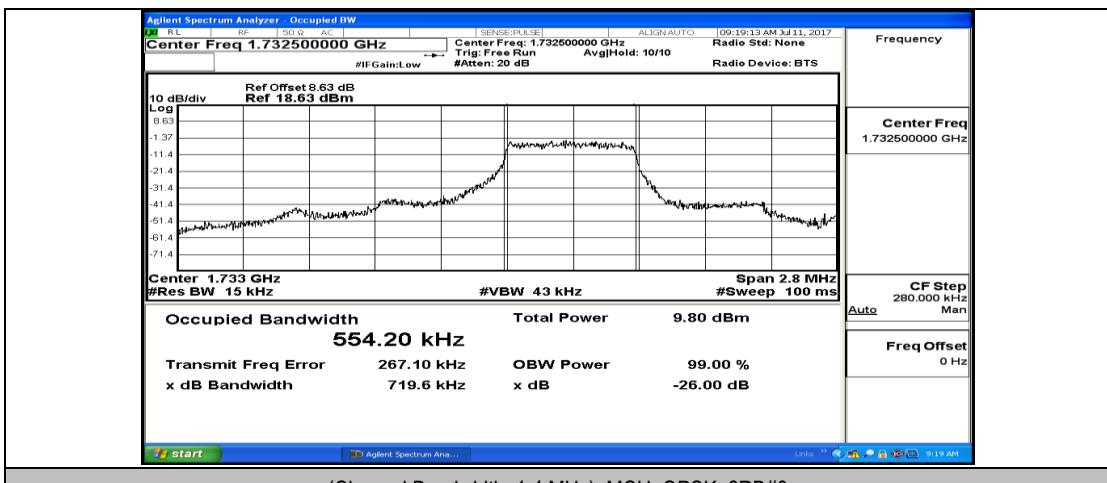


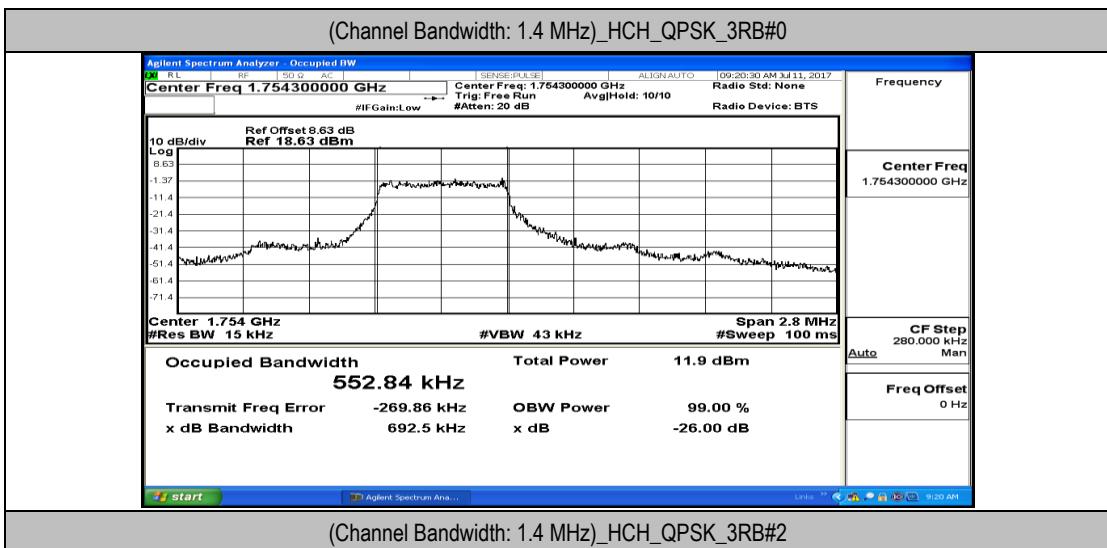
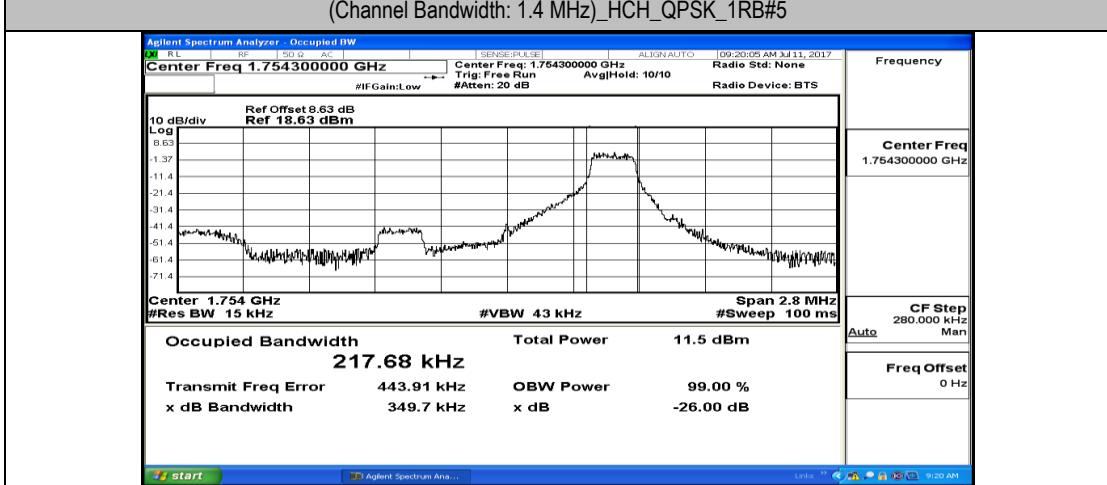
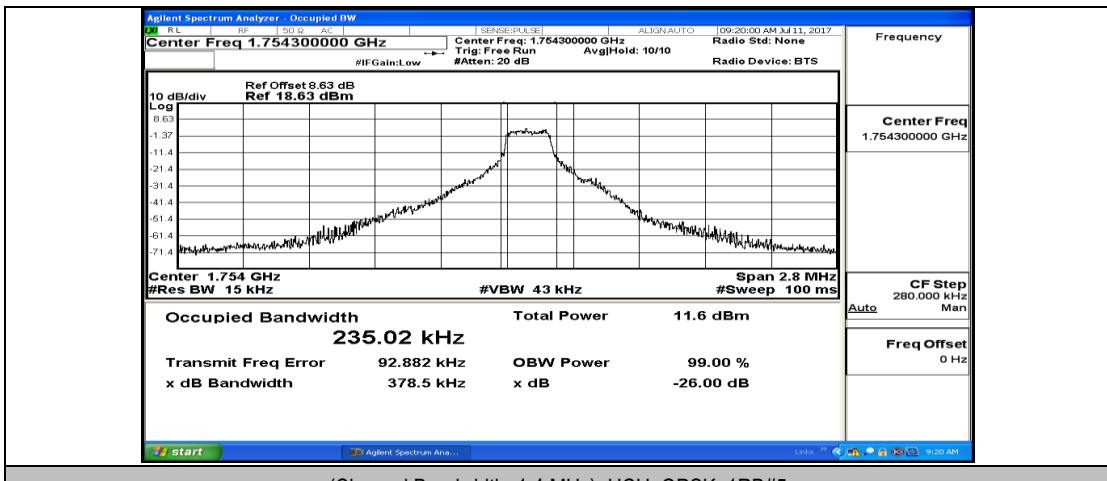


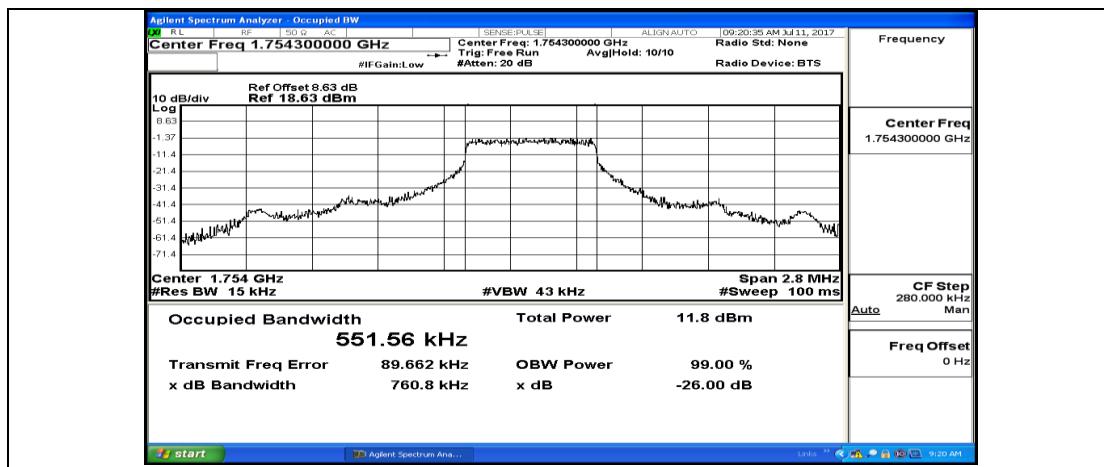




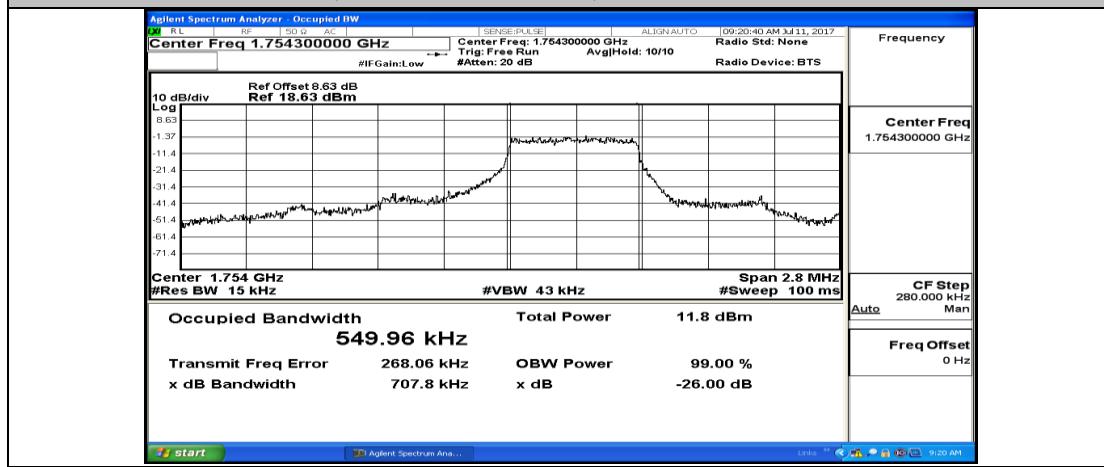
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3



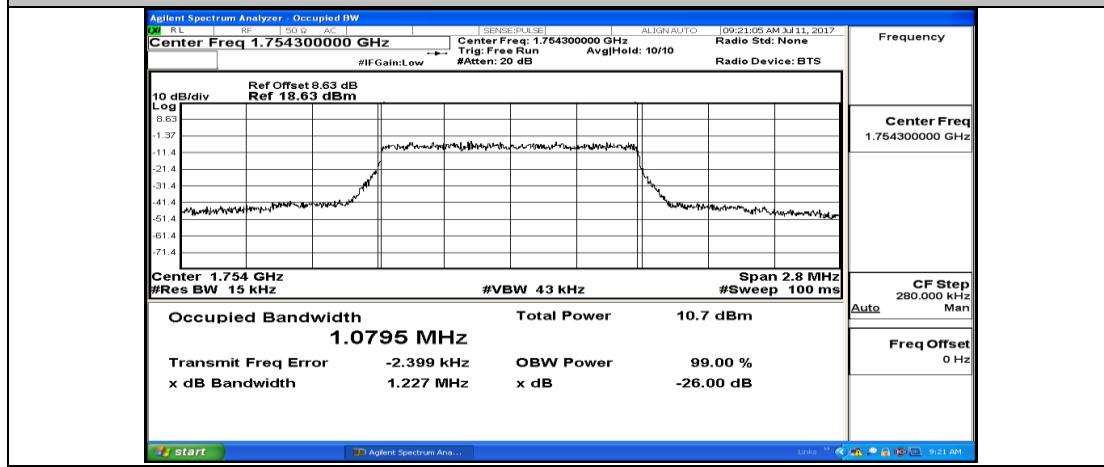




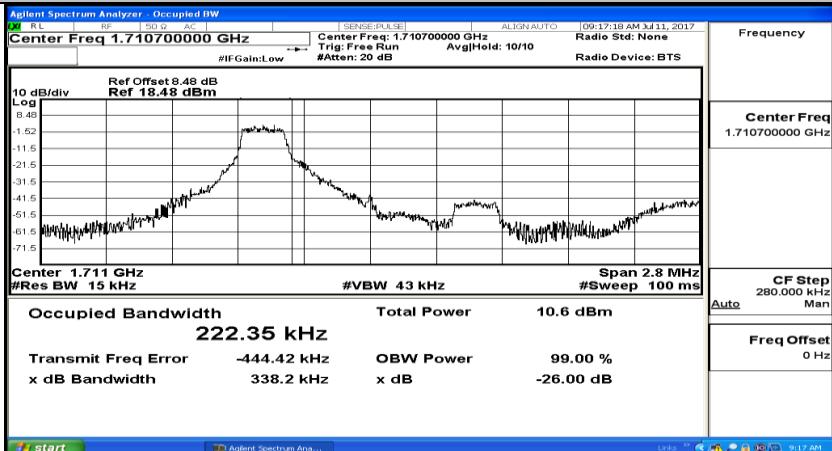
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3



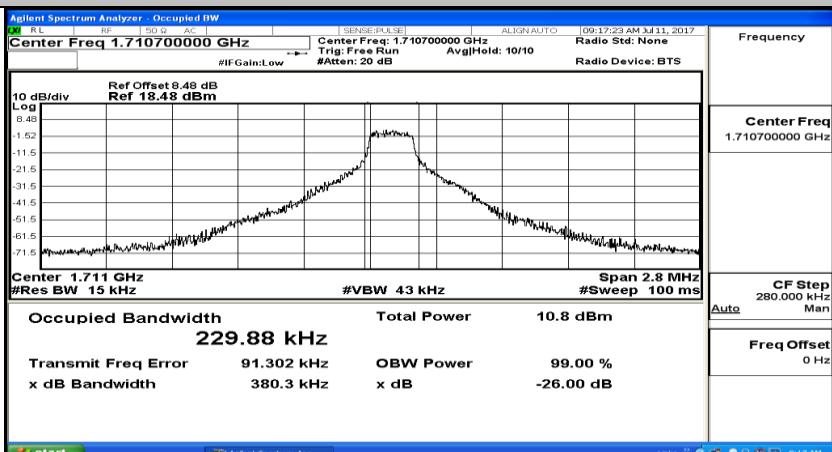
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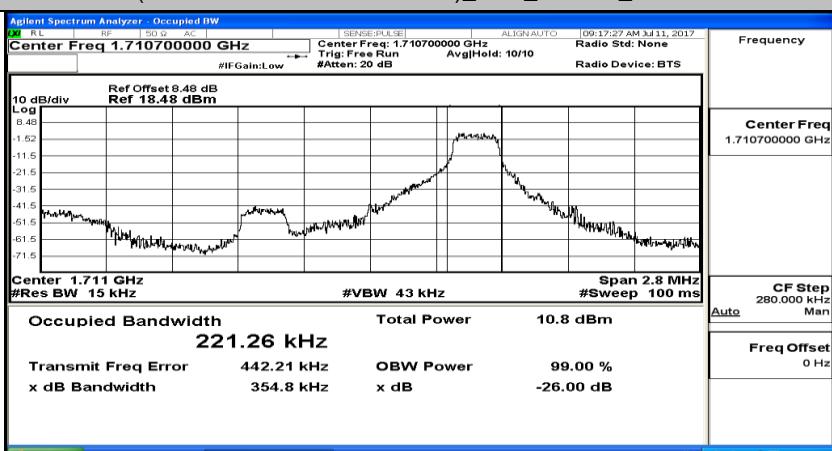
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



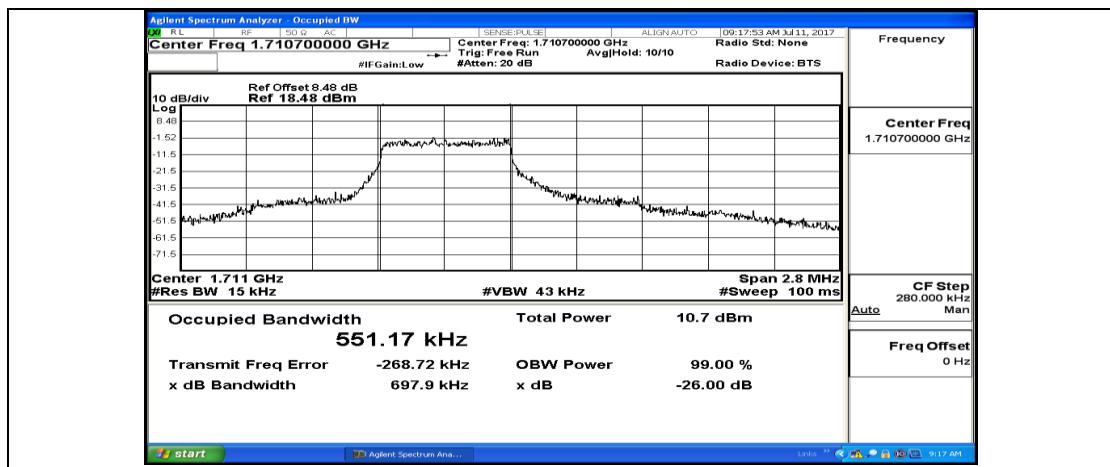
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



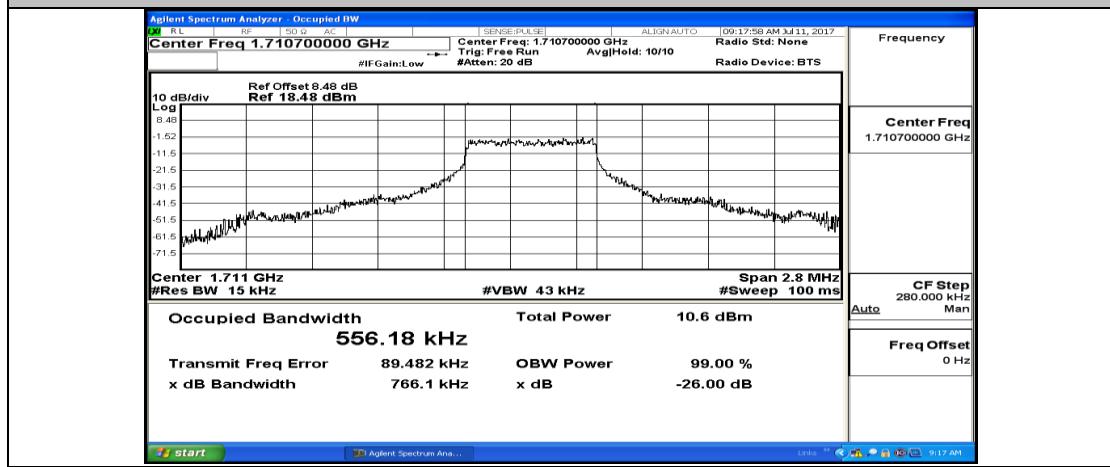
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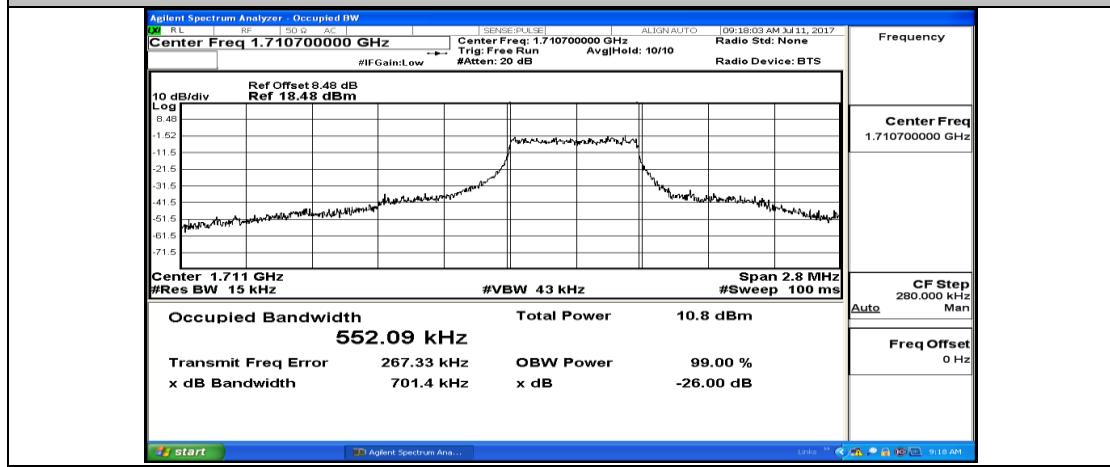
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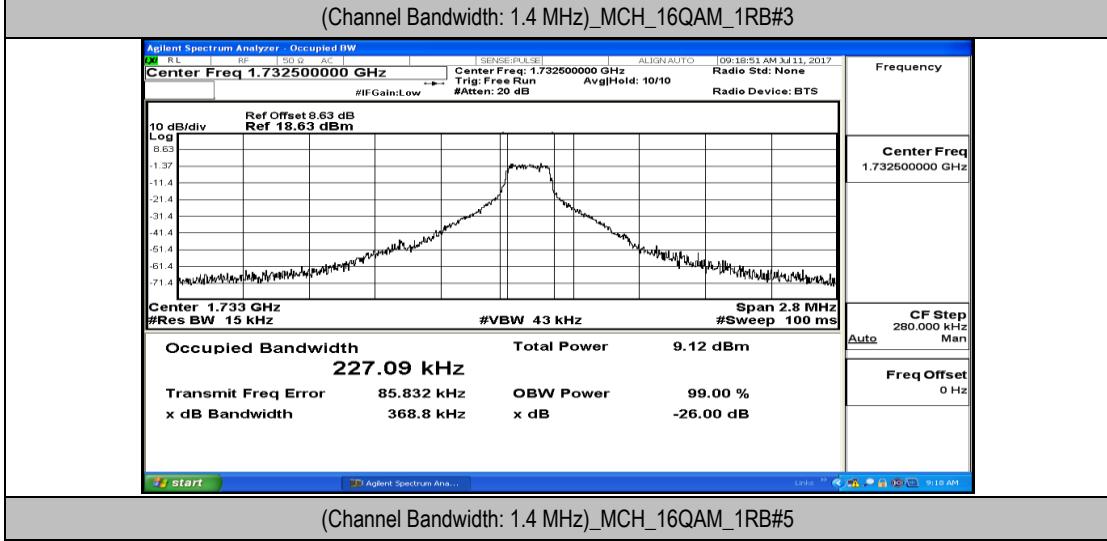
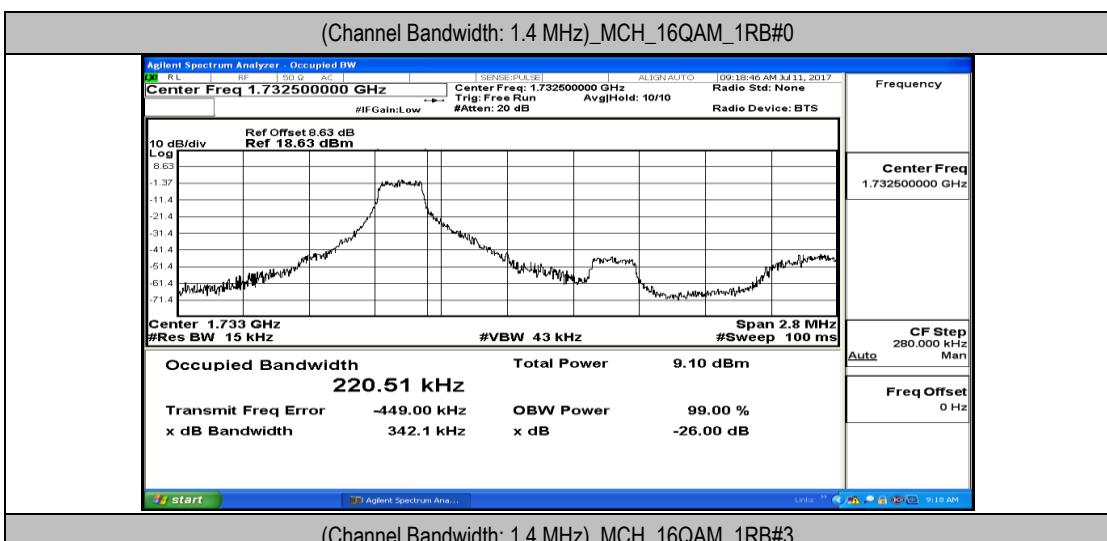
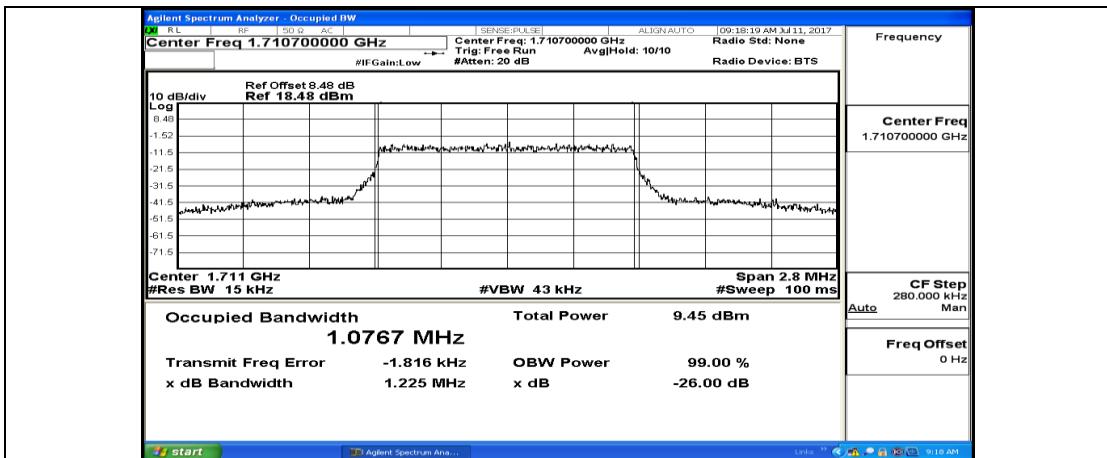
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2

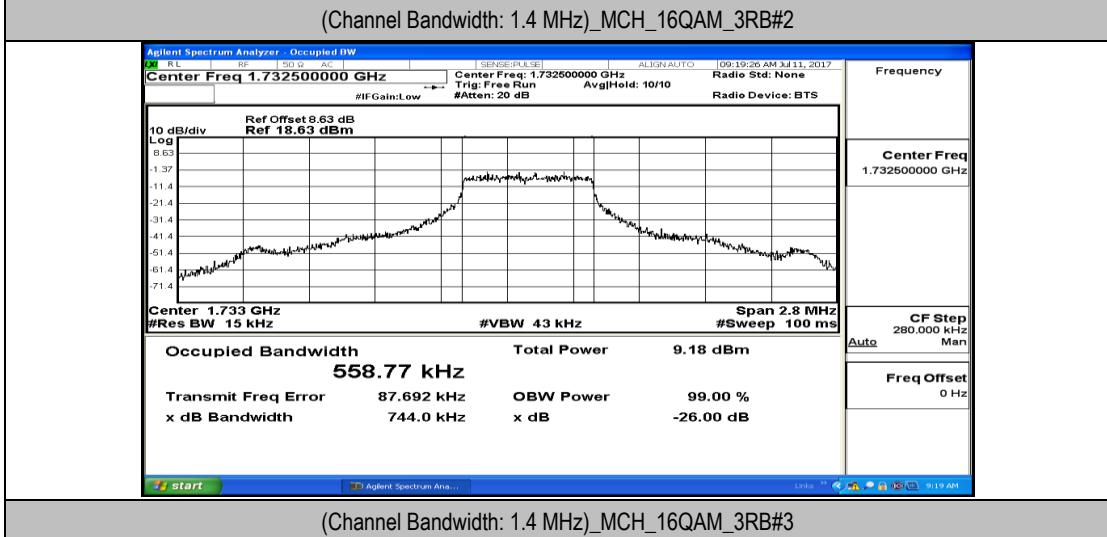
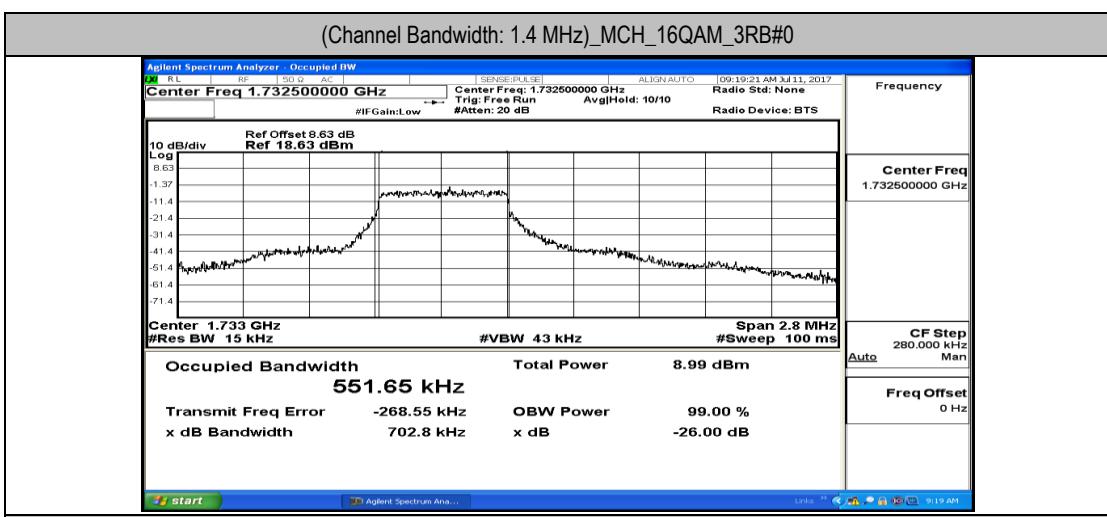
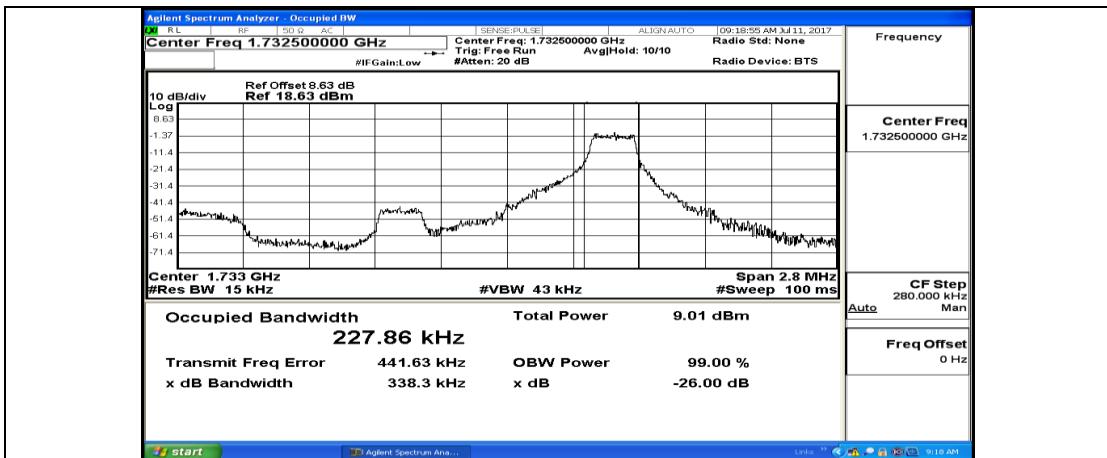


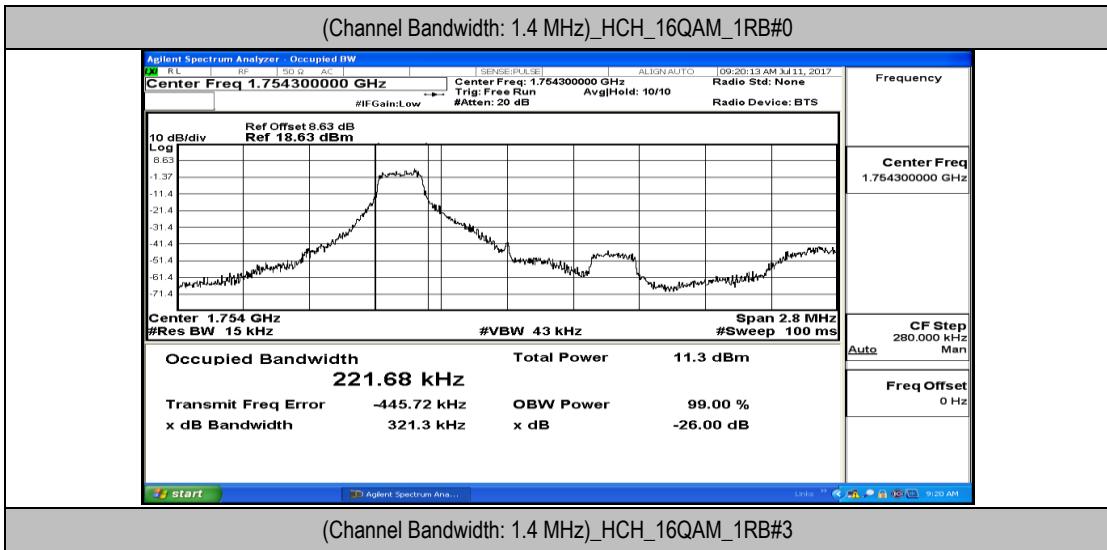
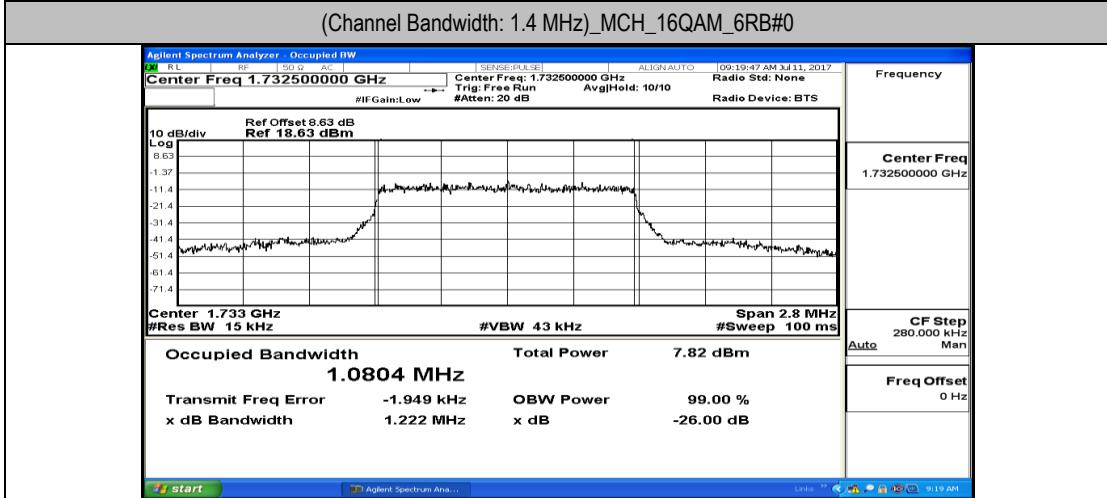
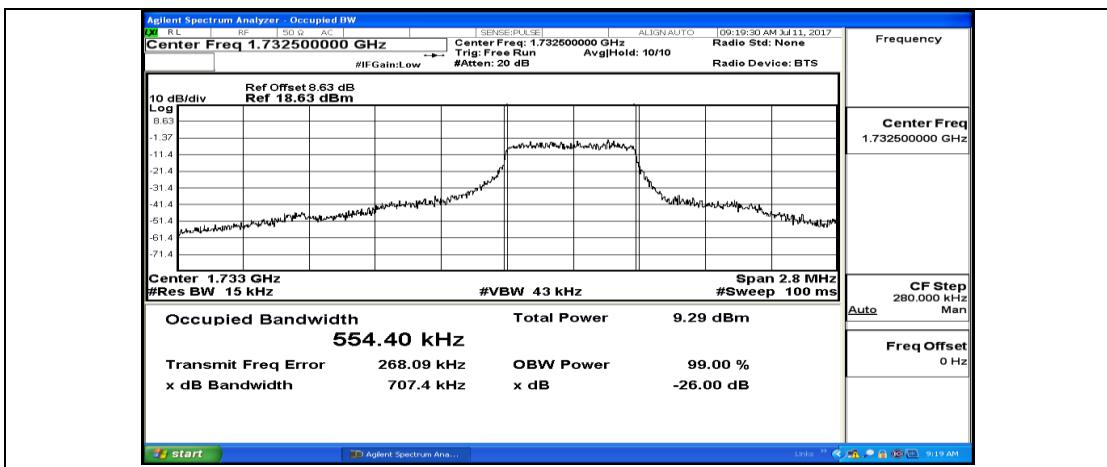
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3

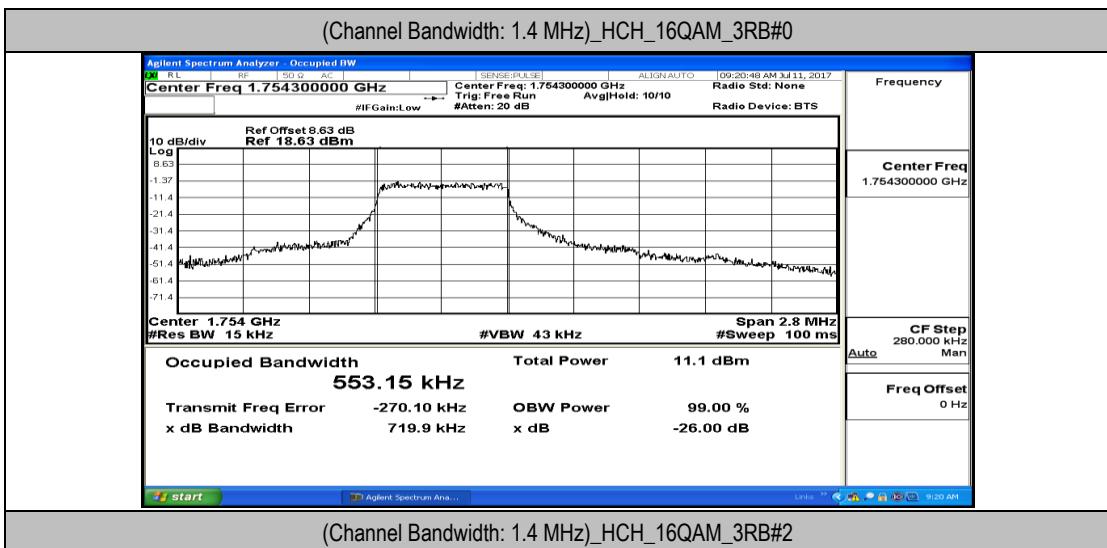
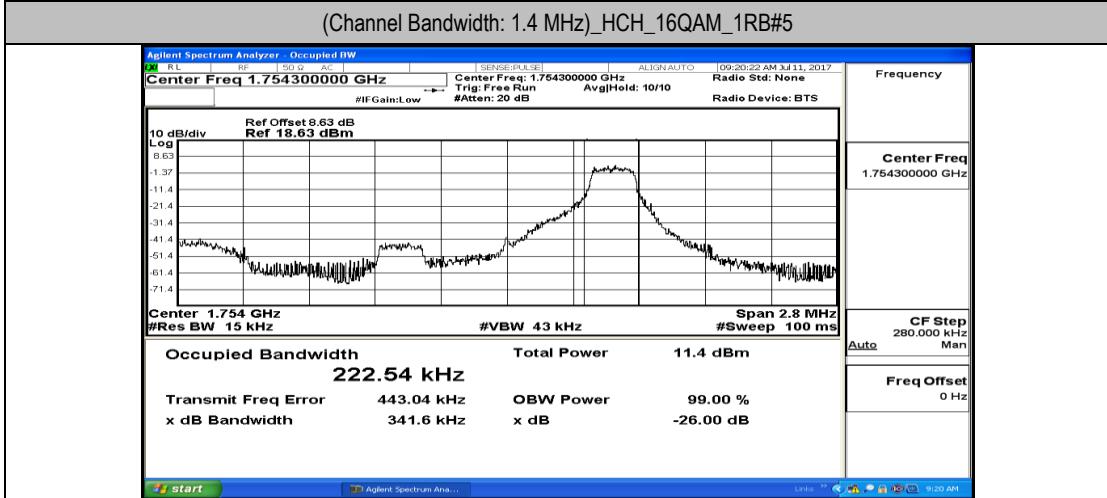
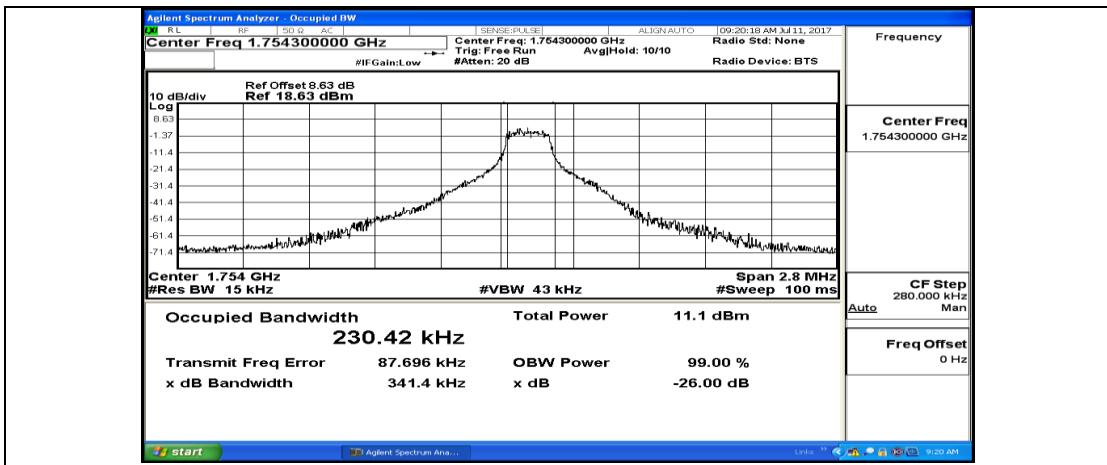


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0

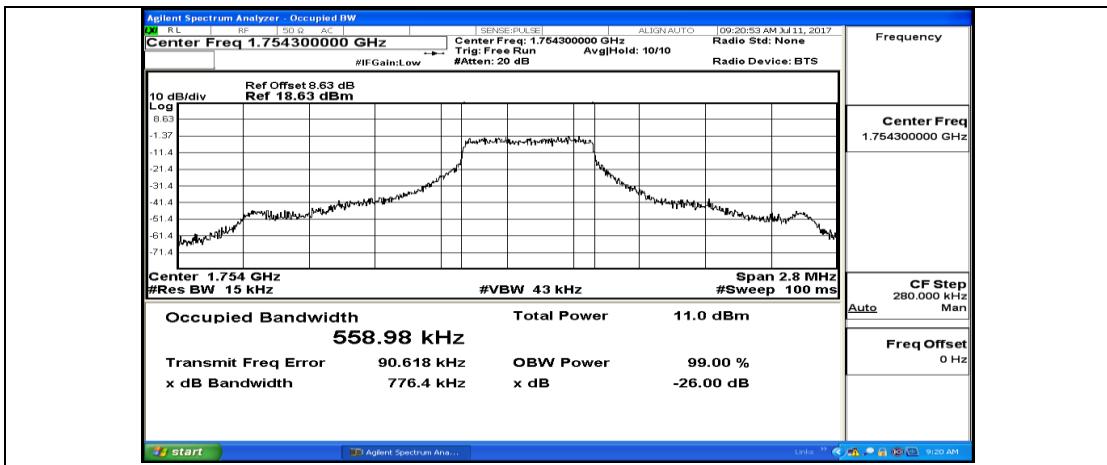




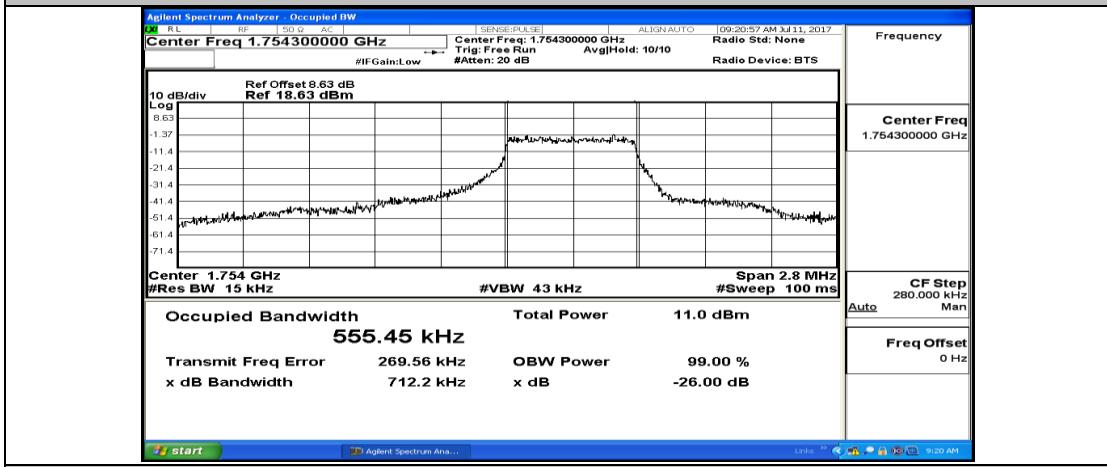




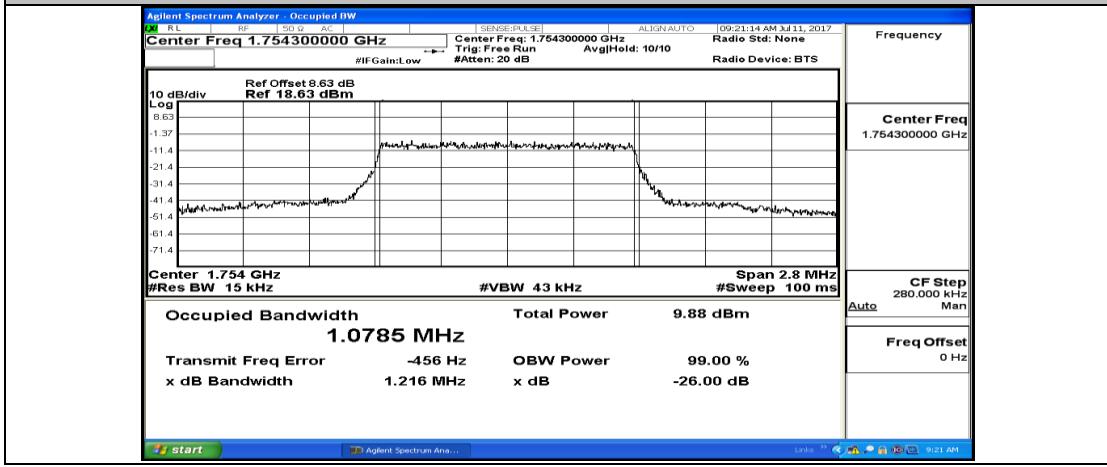
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2



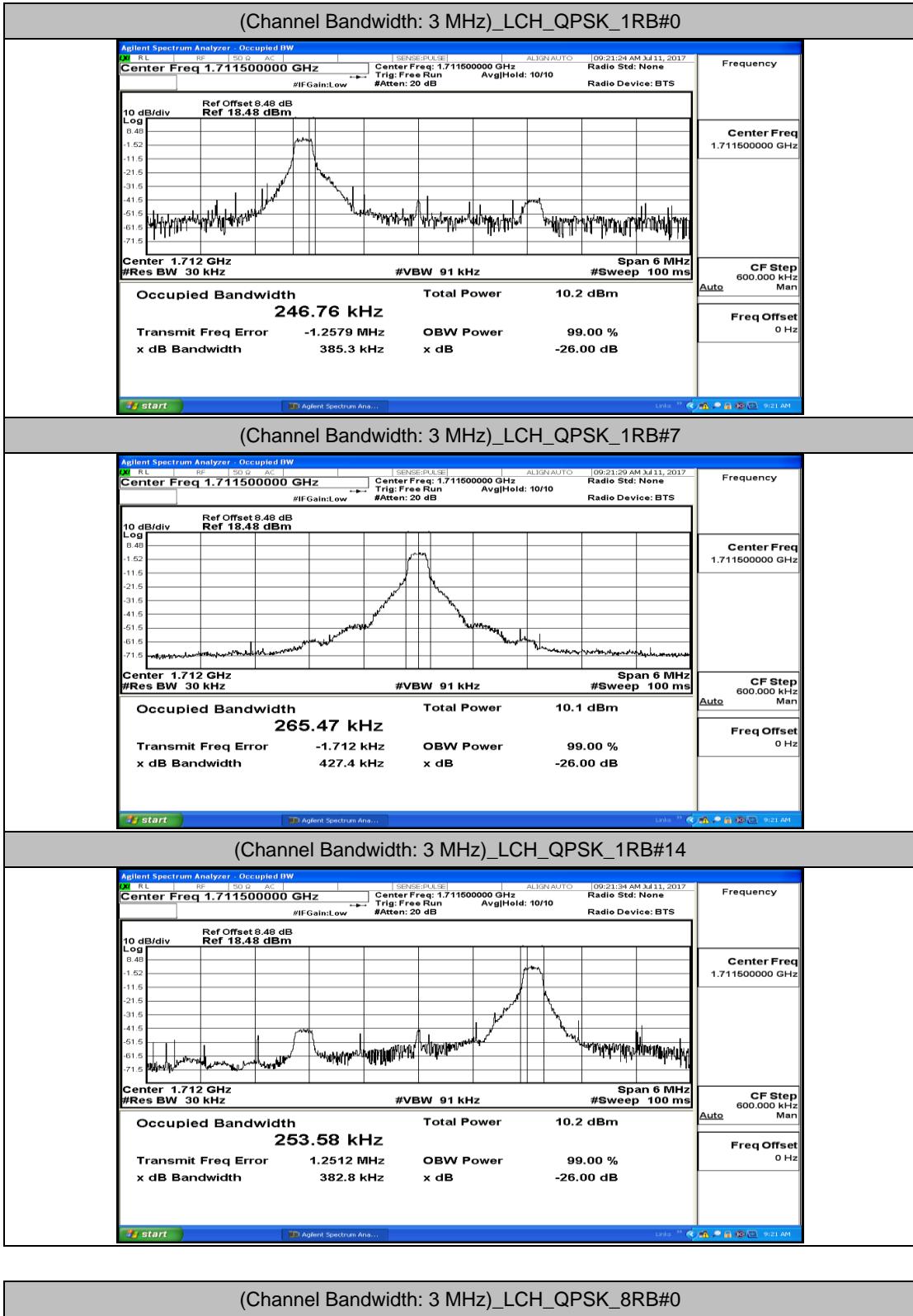
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

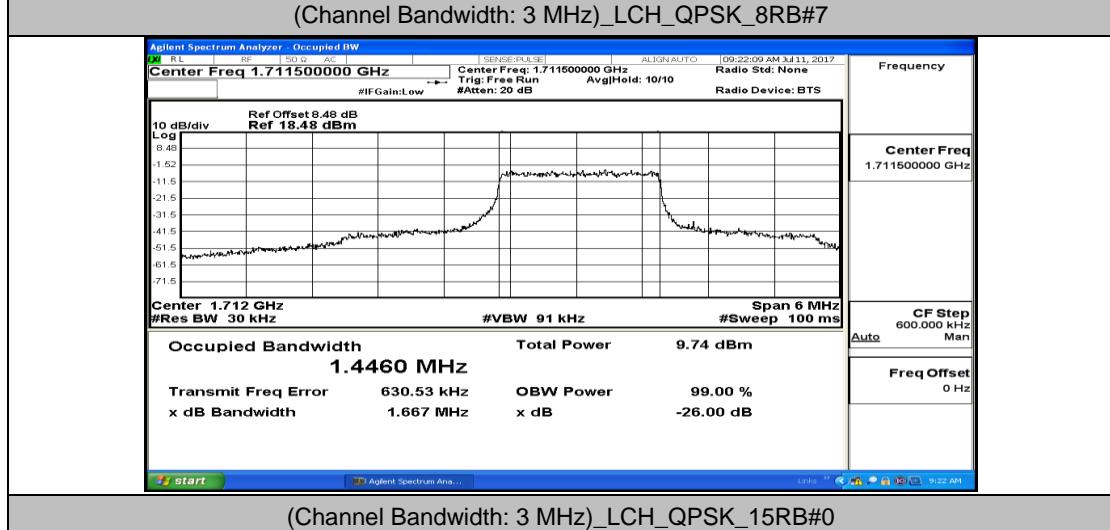
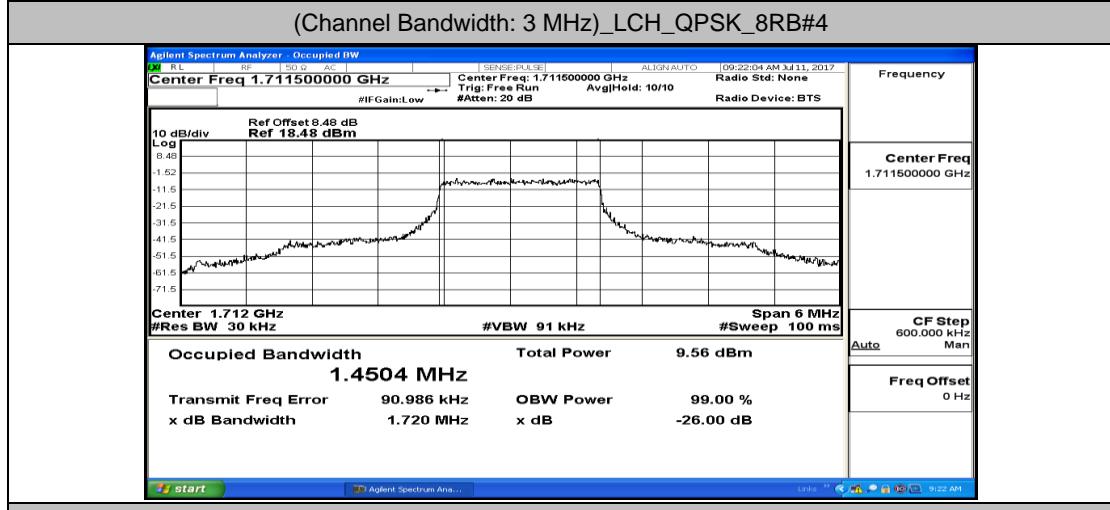
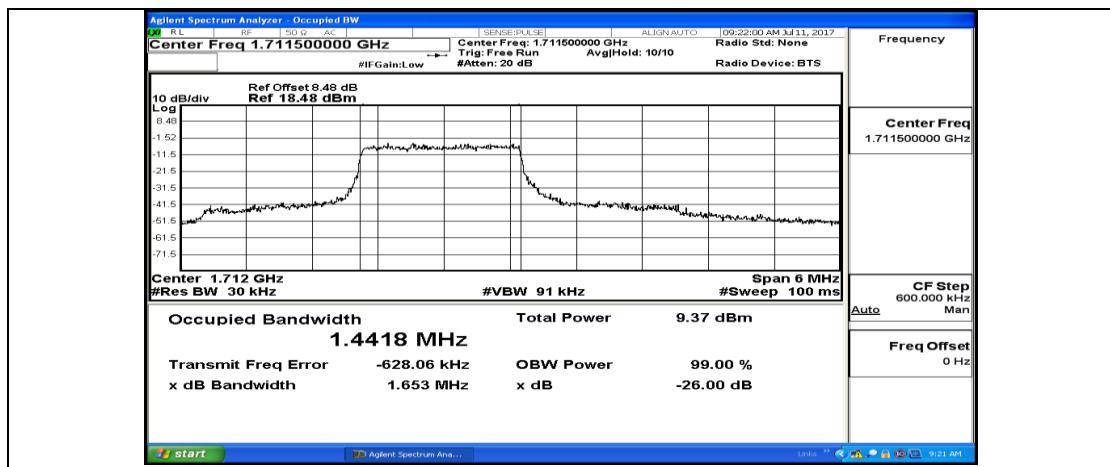


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

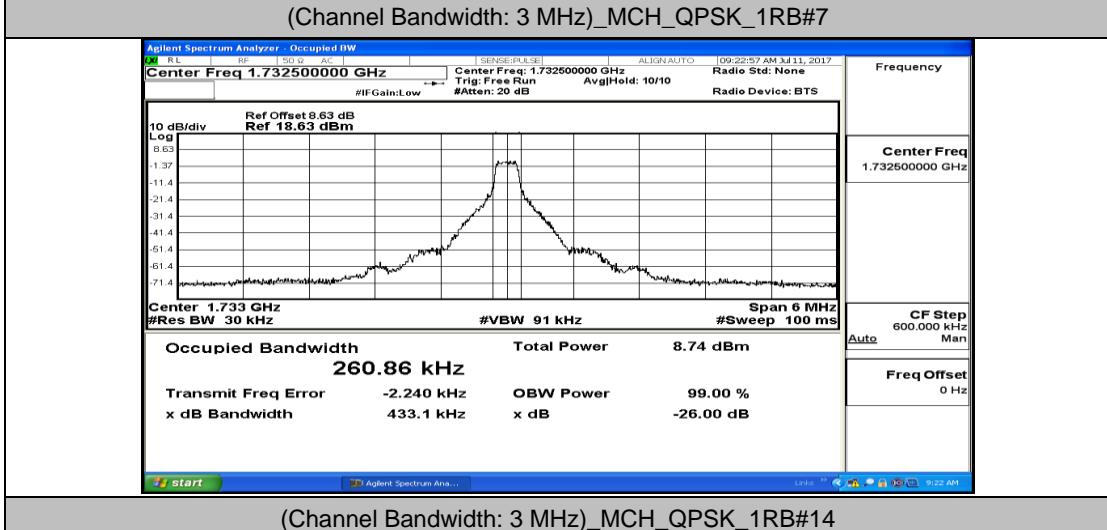
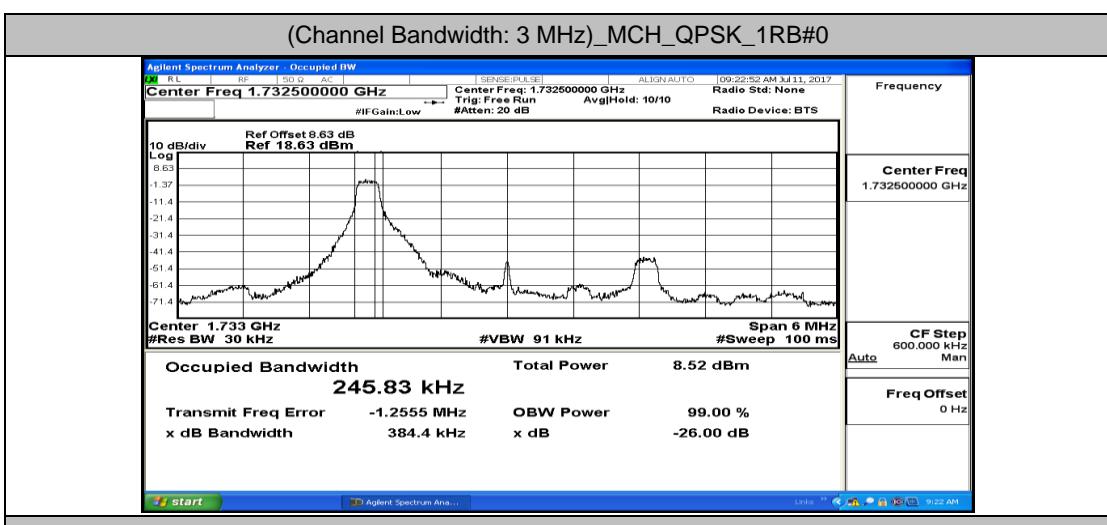
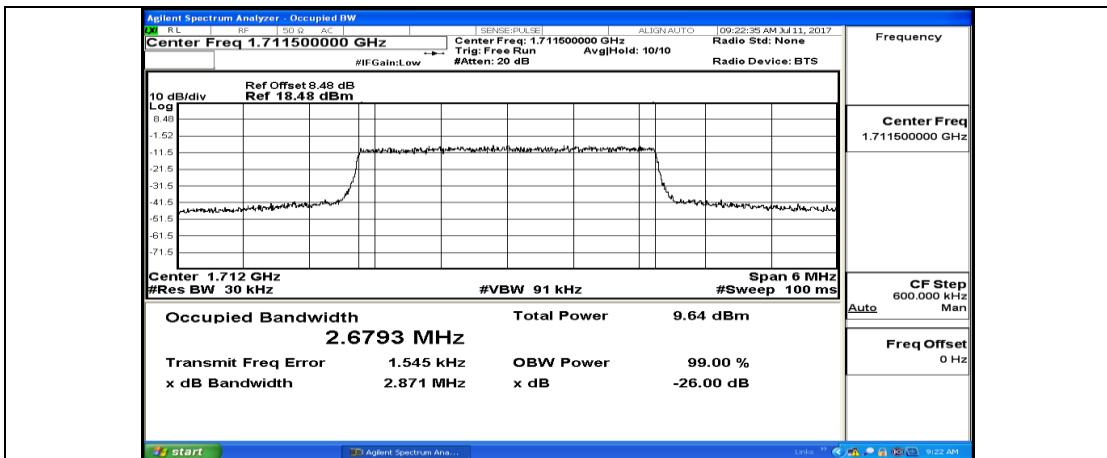


Channel Bandwidth: 3 MHz

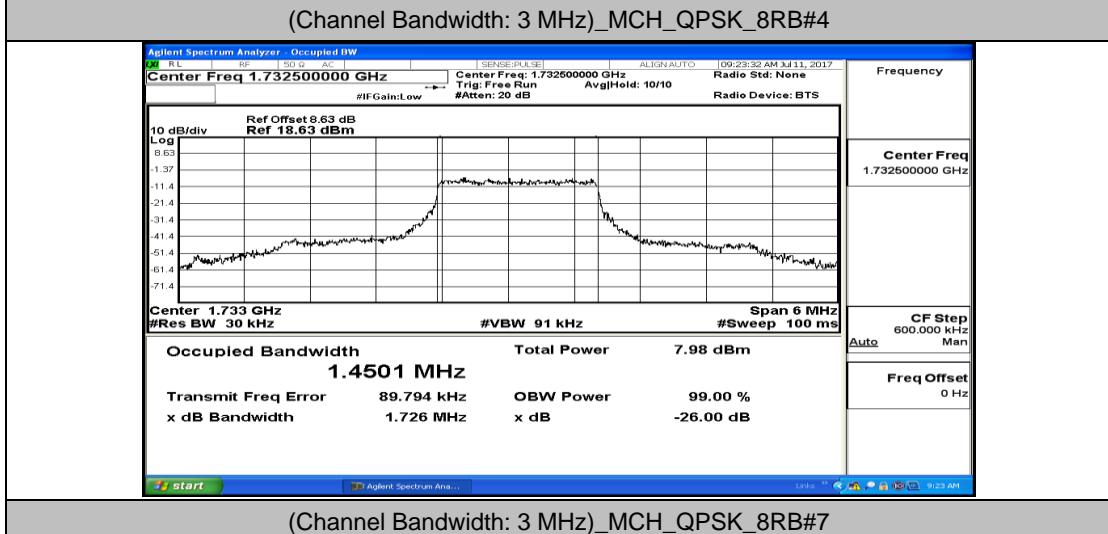
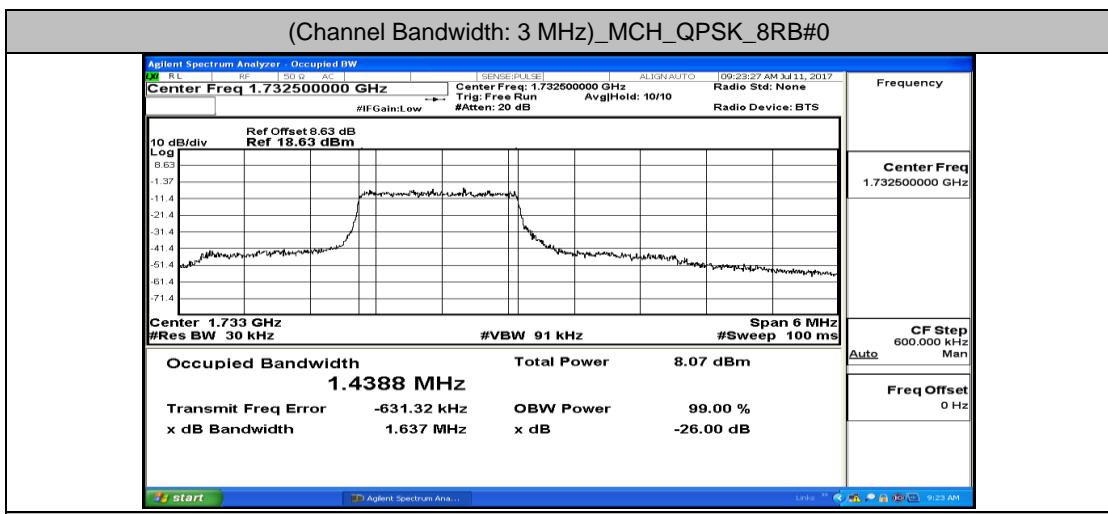
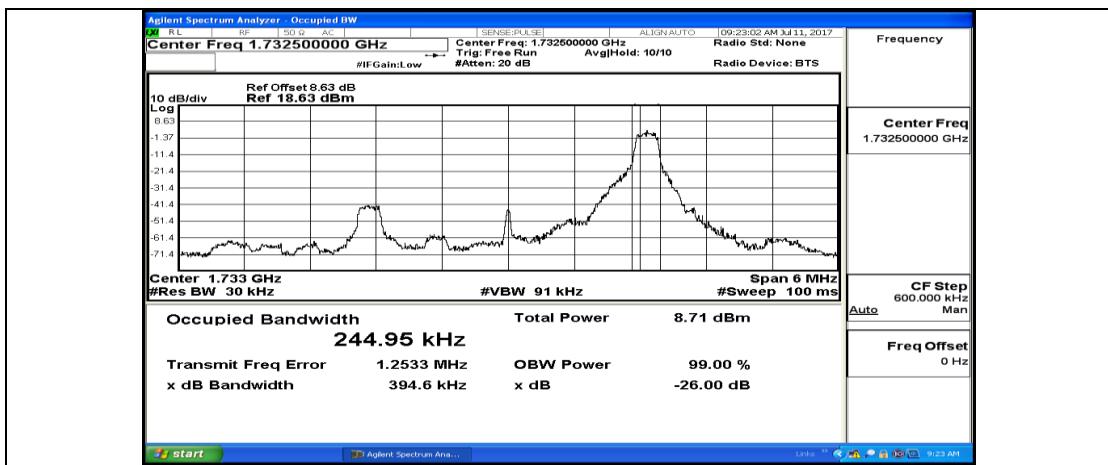




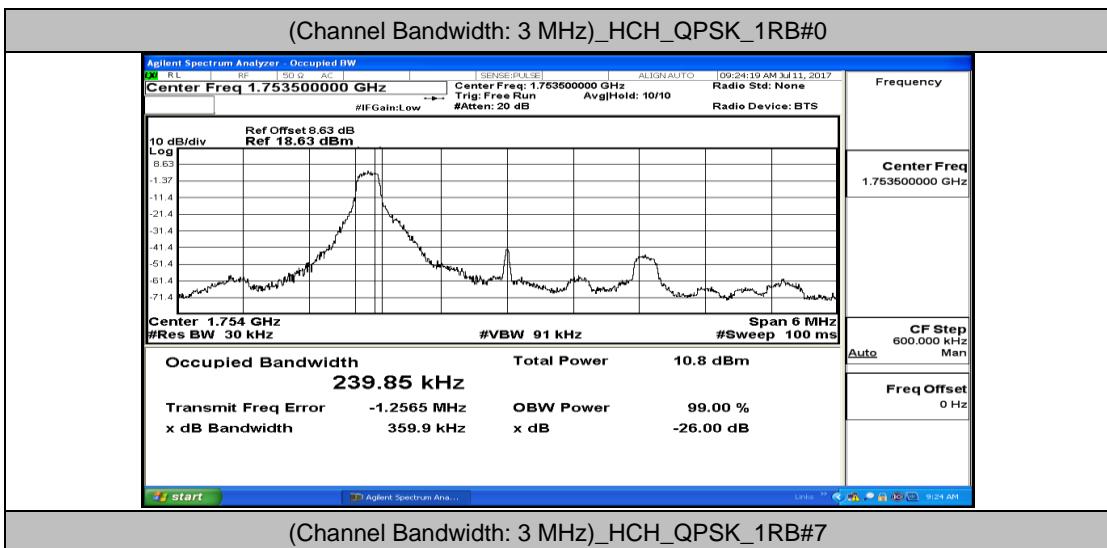
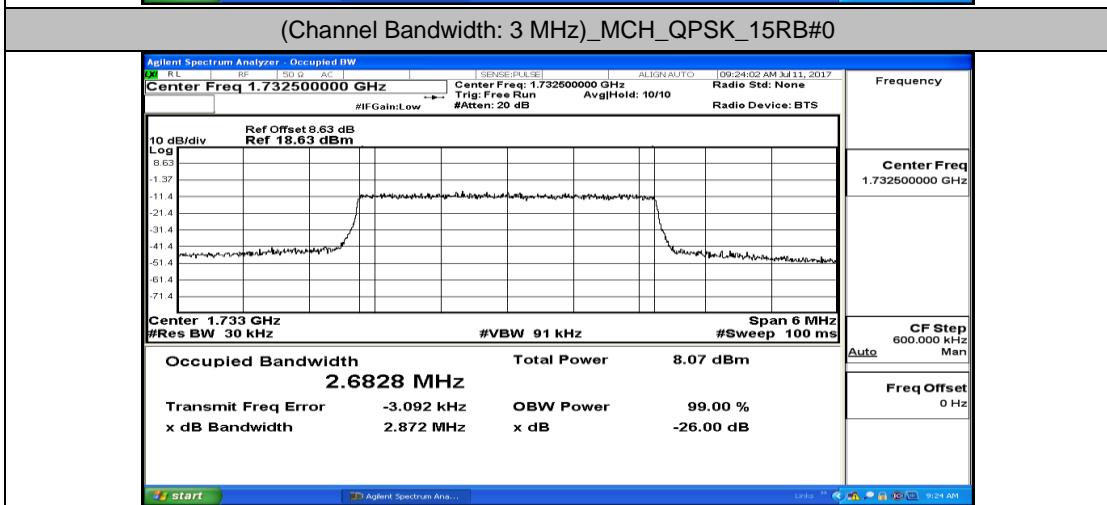
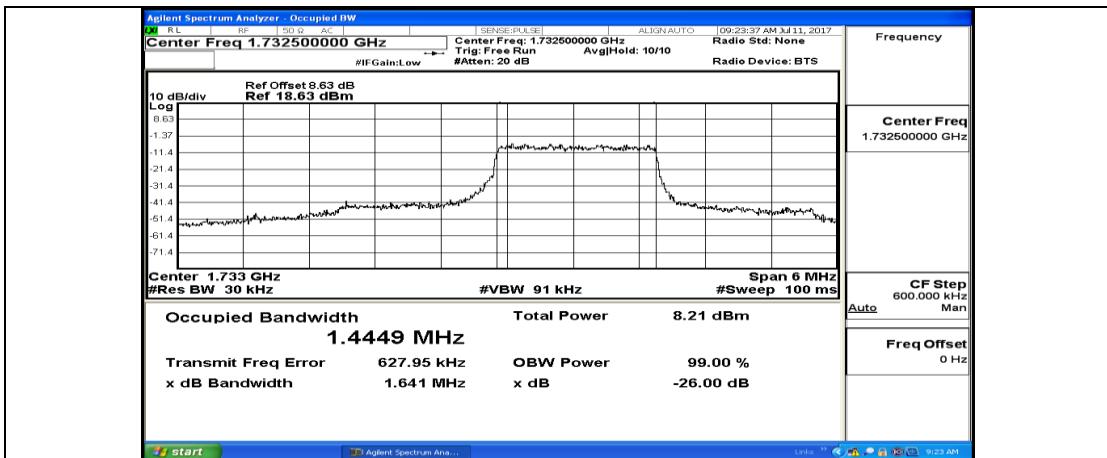
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0



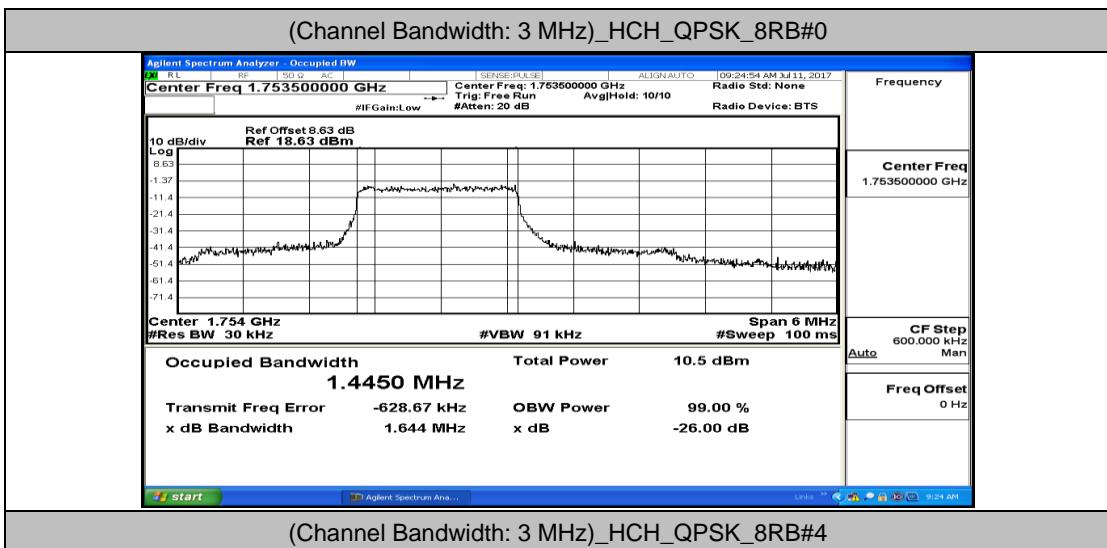
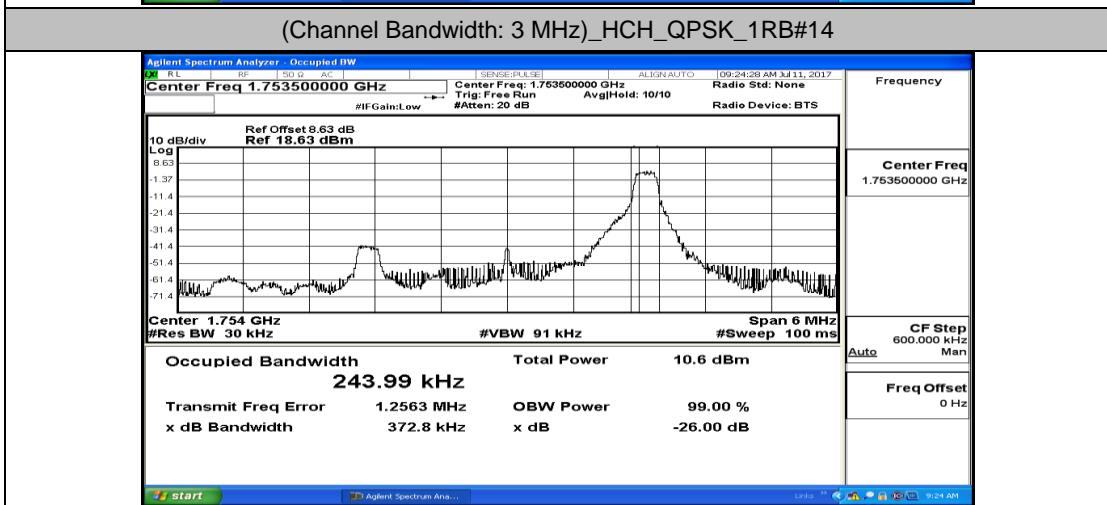
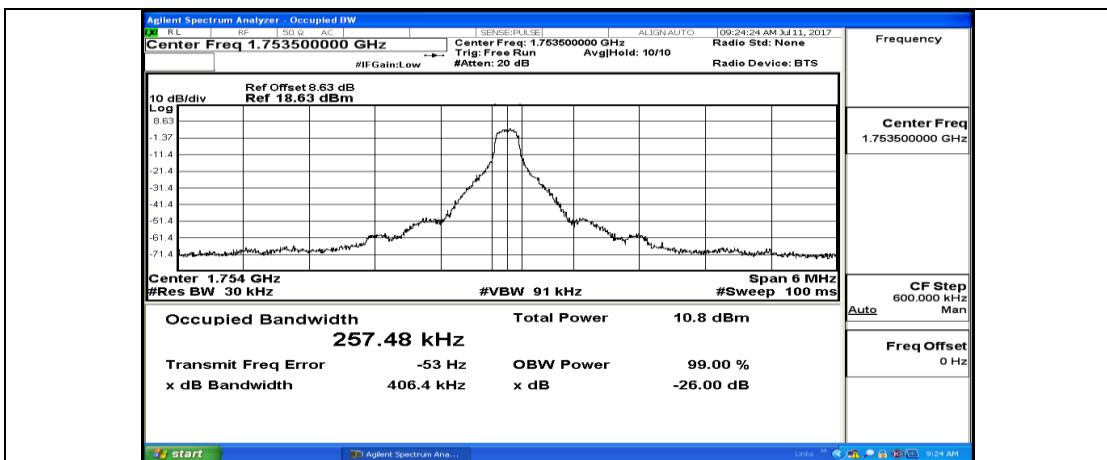
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14

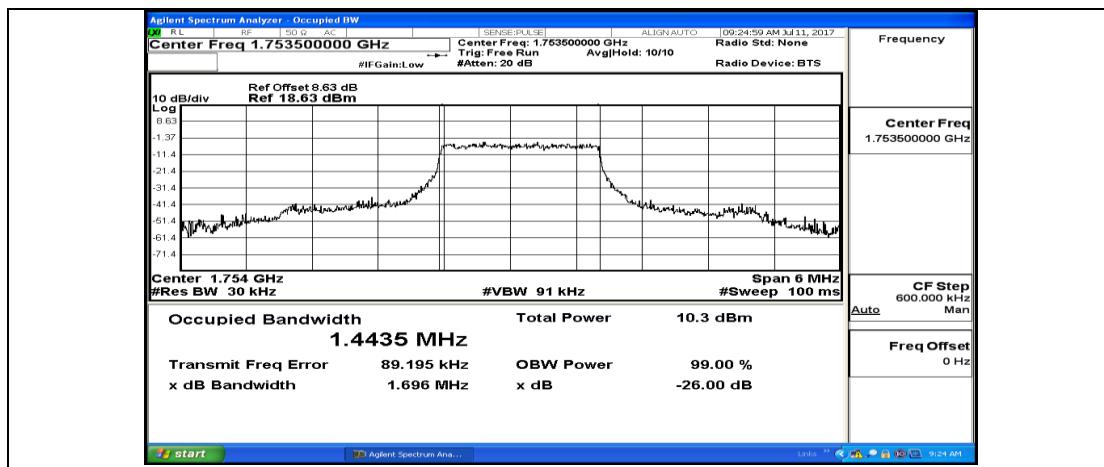


(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7

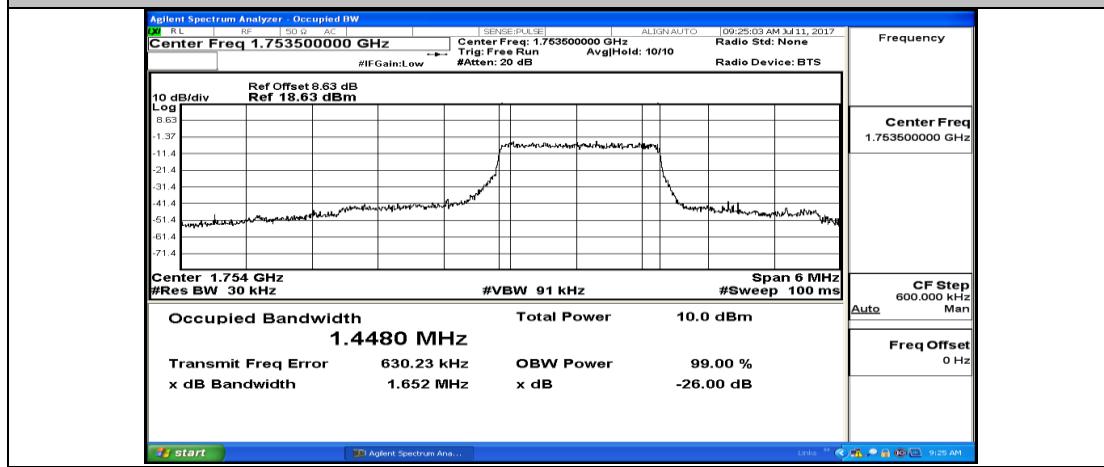


(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7

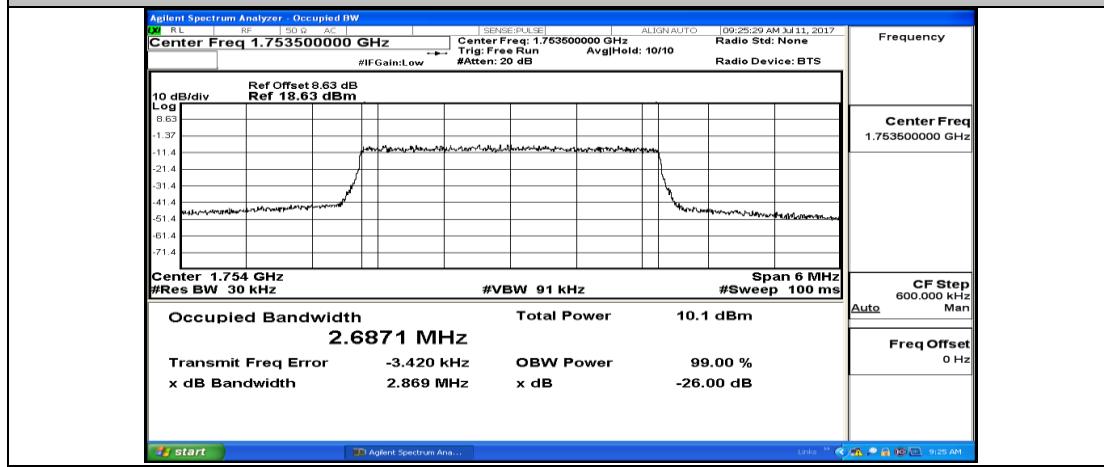




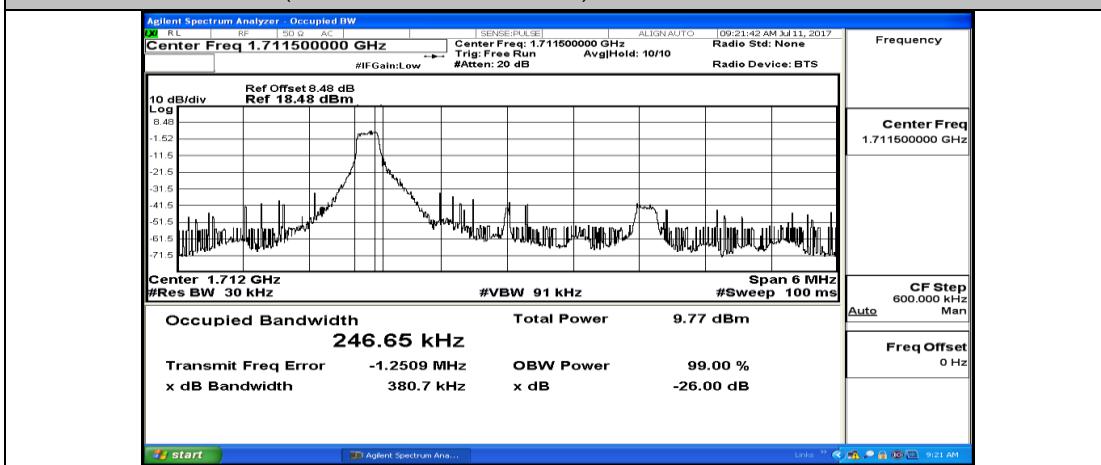
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7



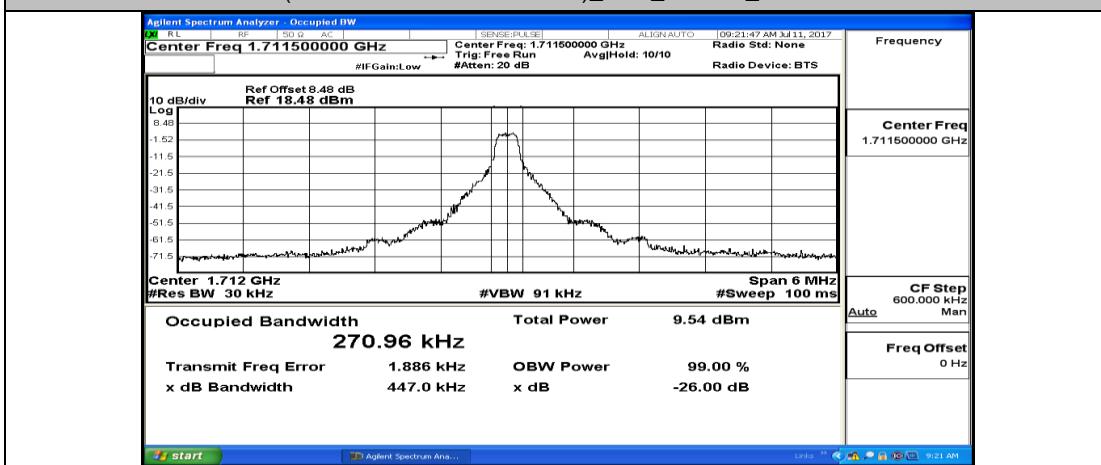
(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0



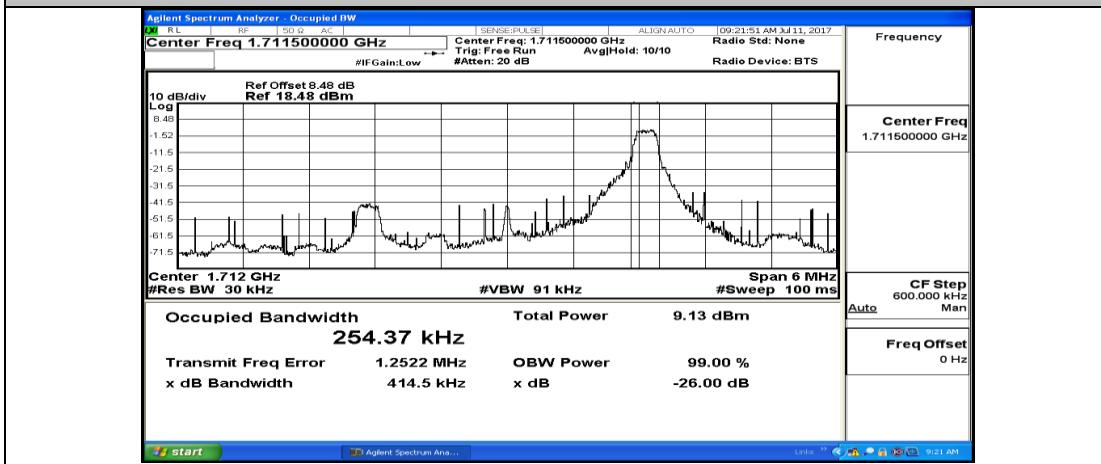
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



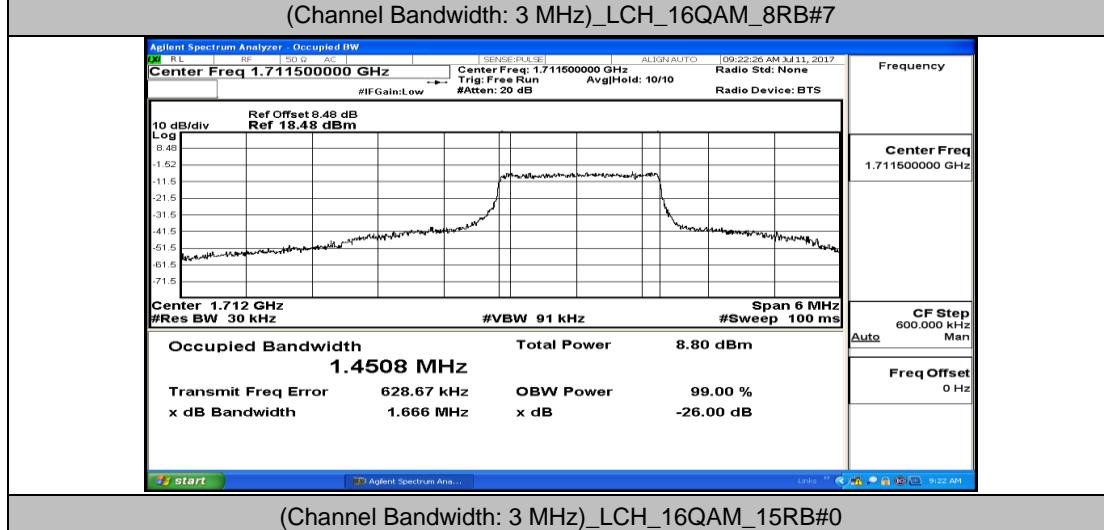
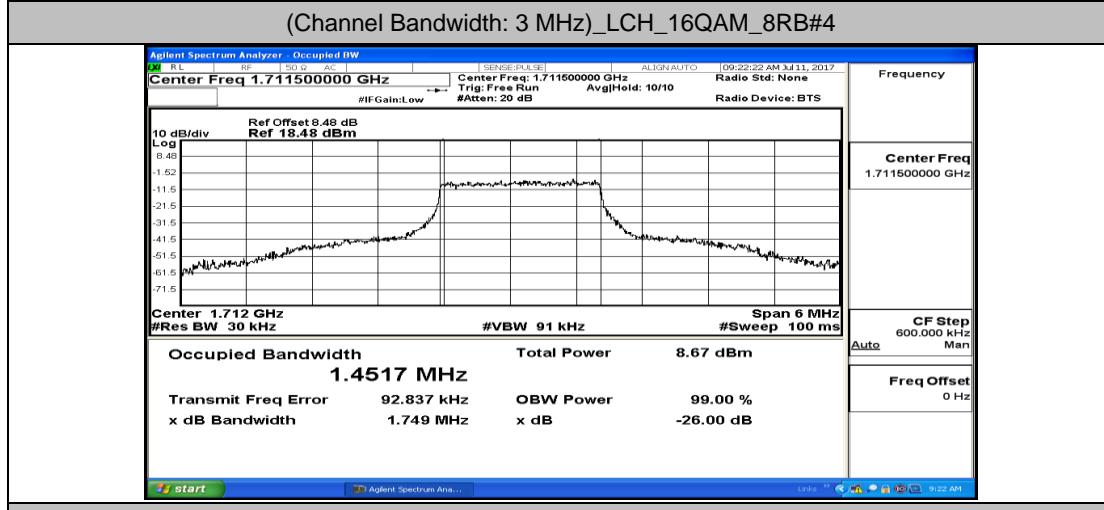
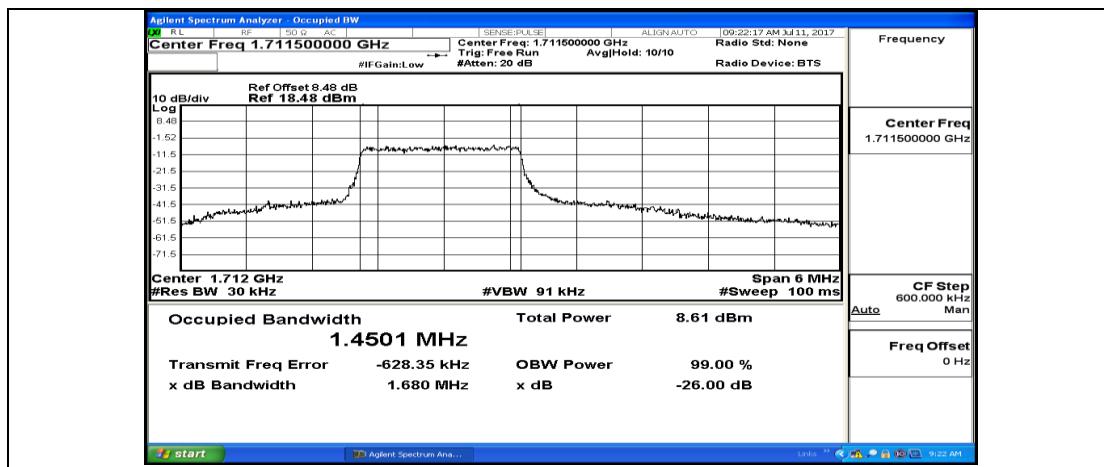
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7



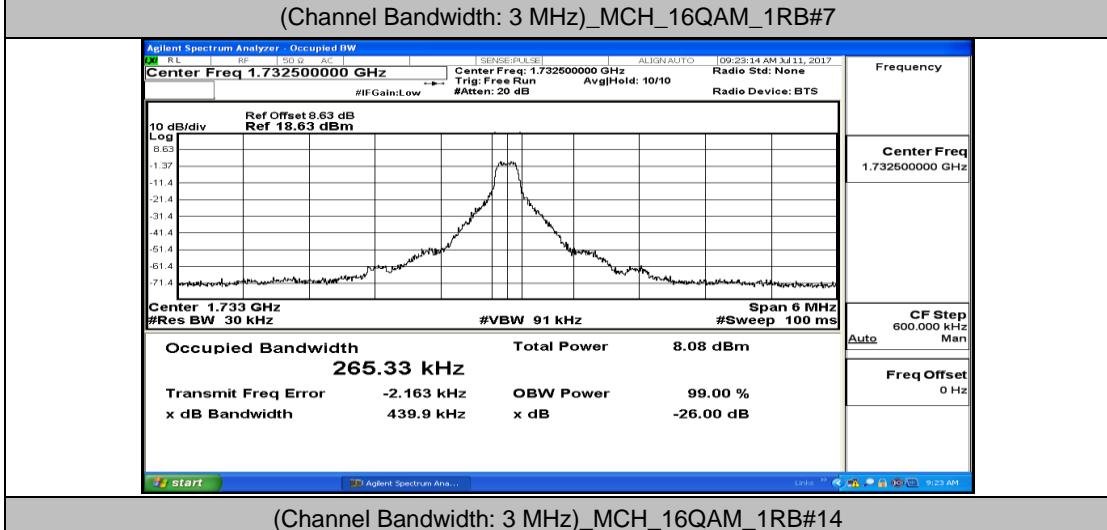
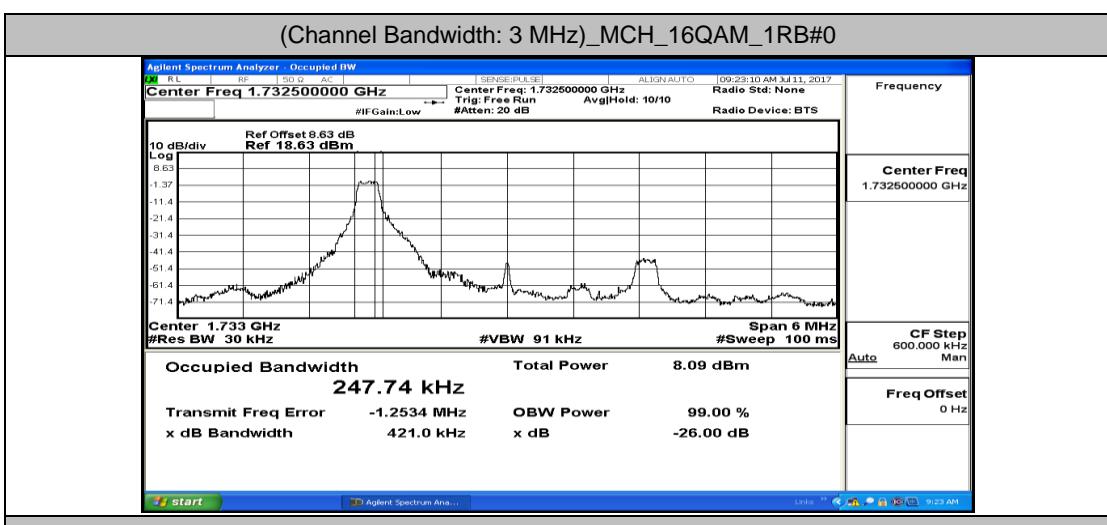
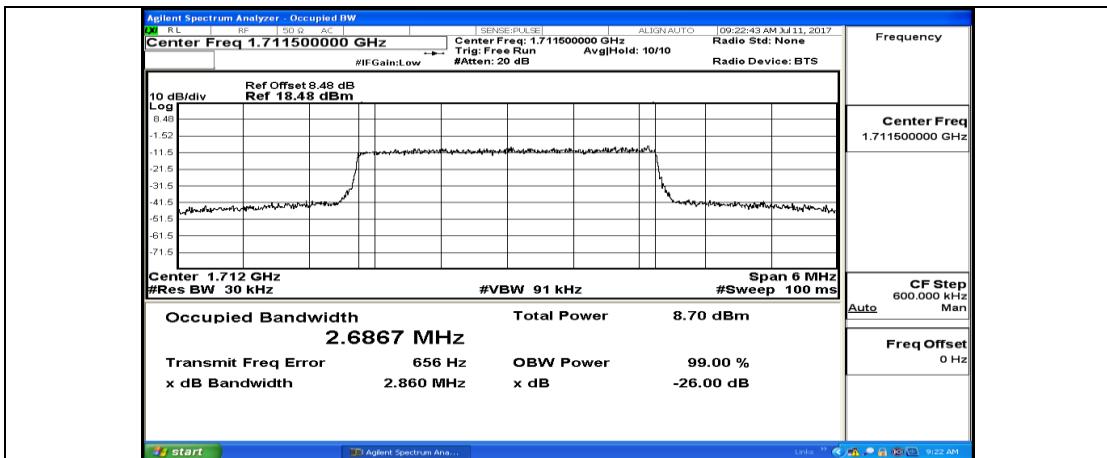
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14



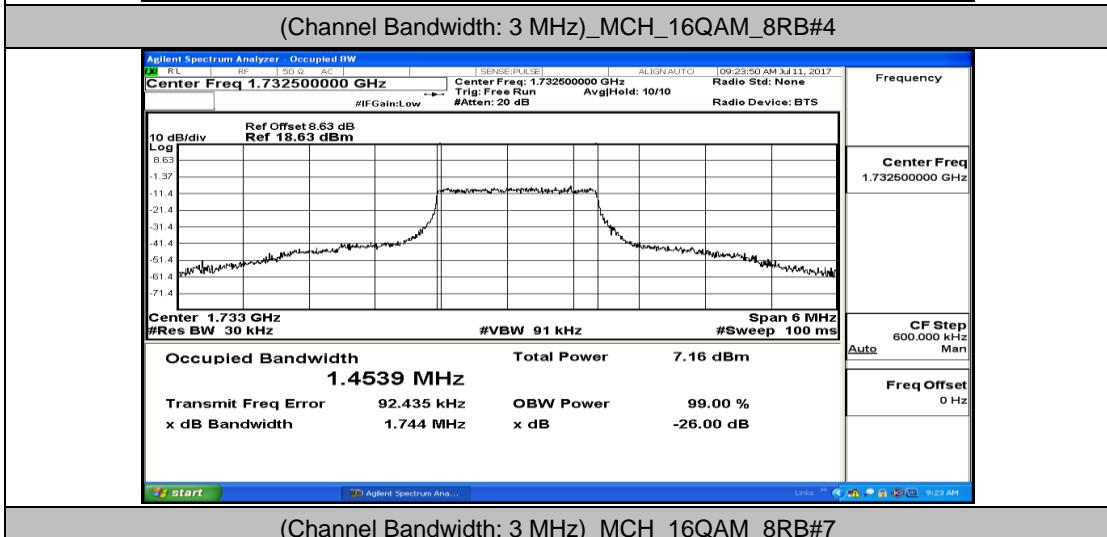
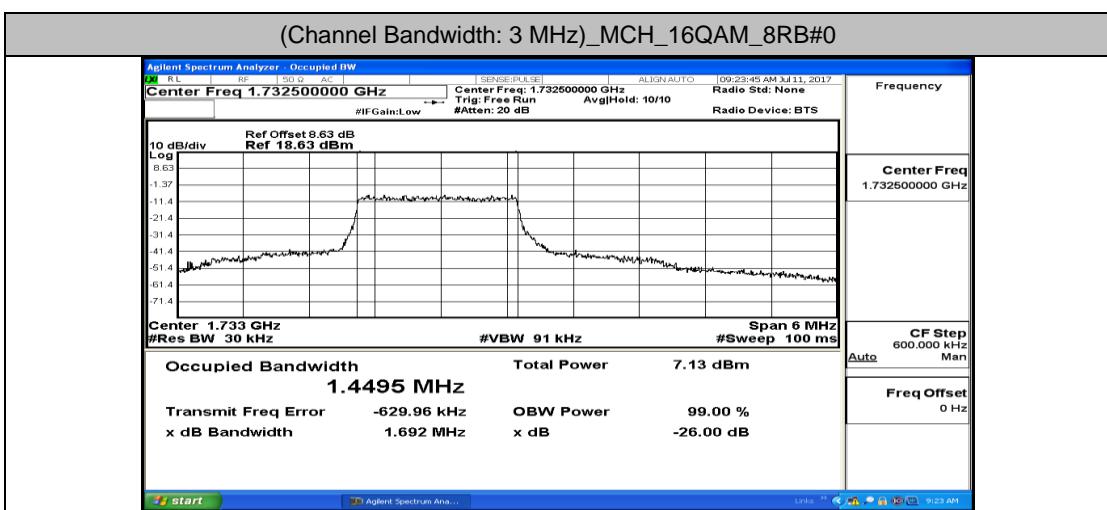
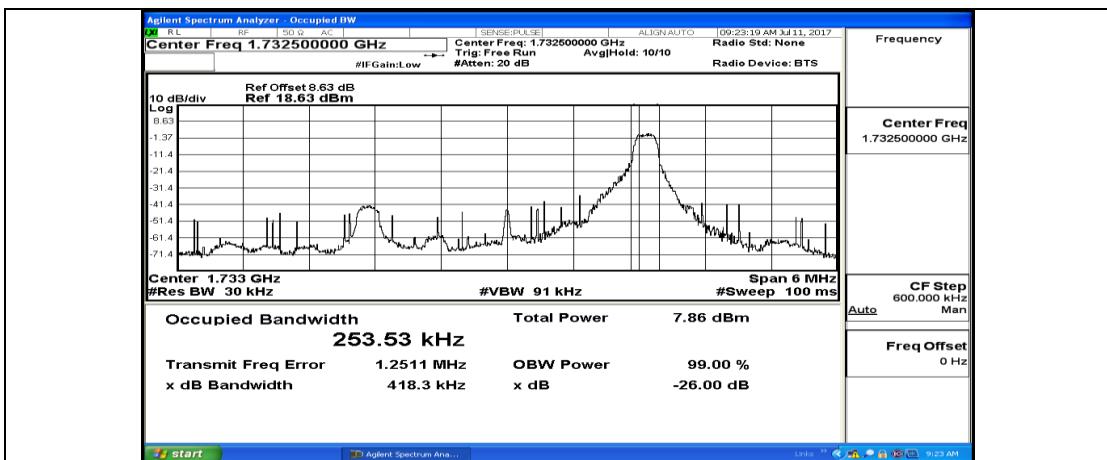
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0



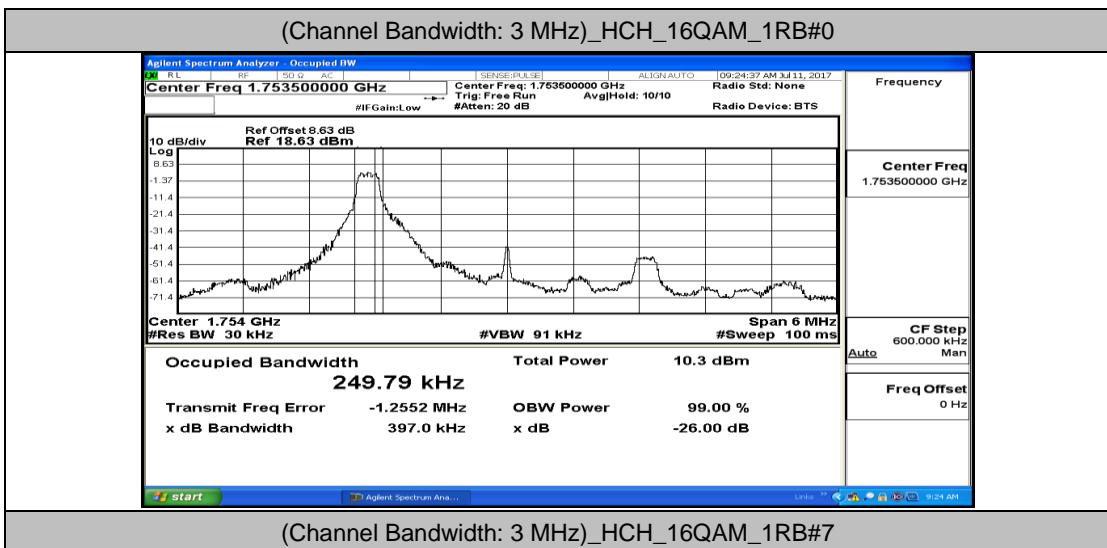
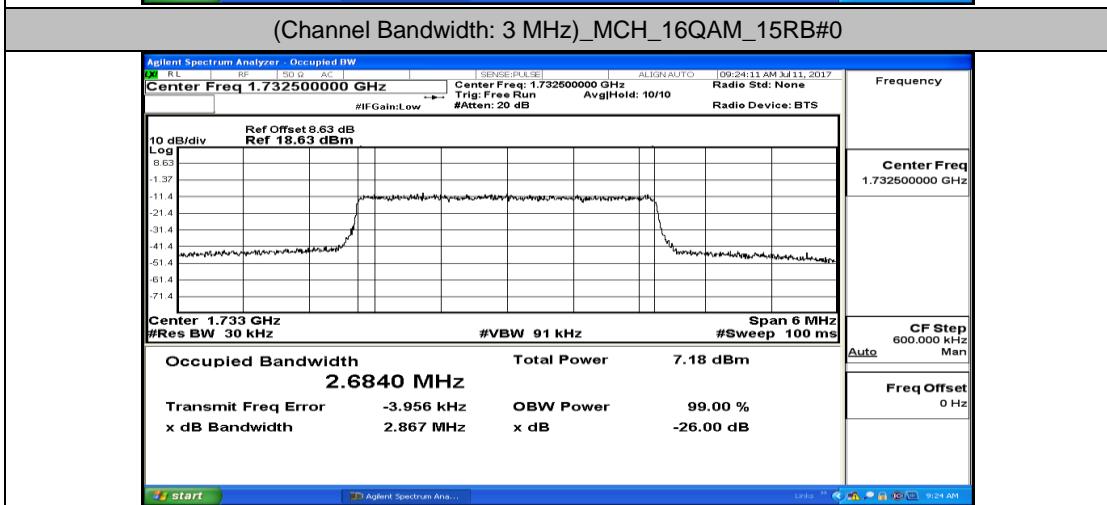
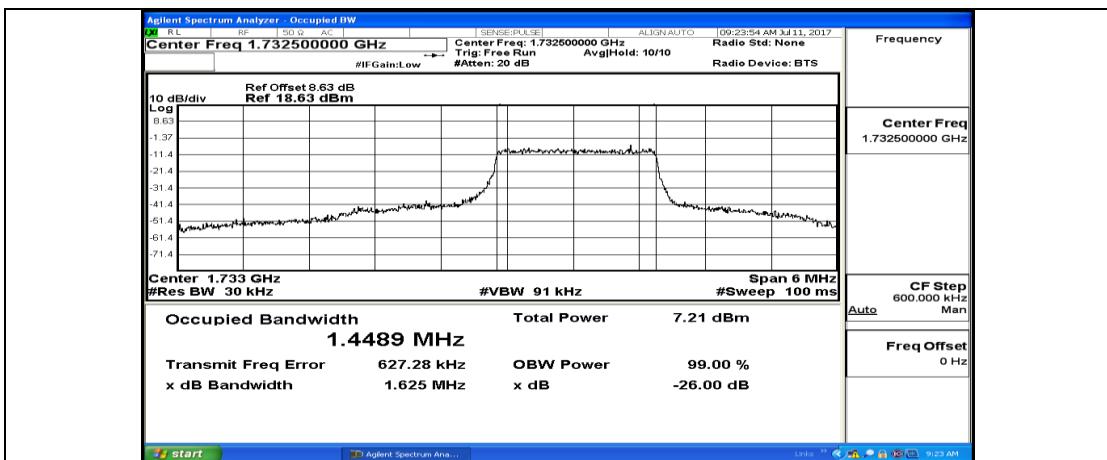
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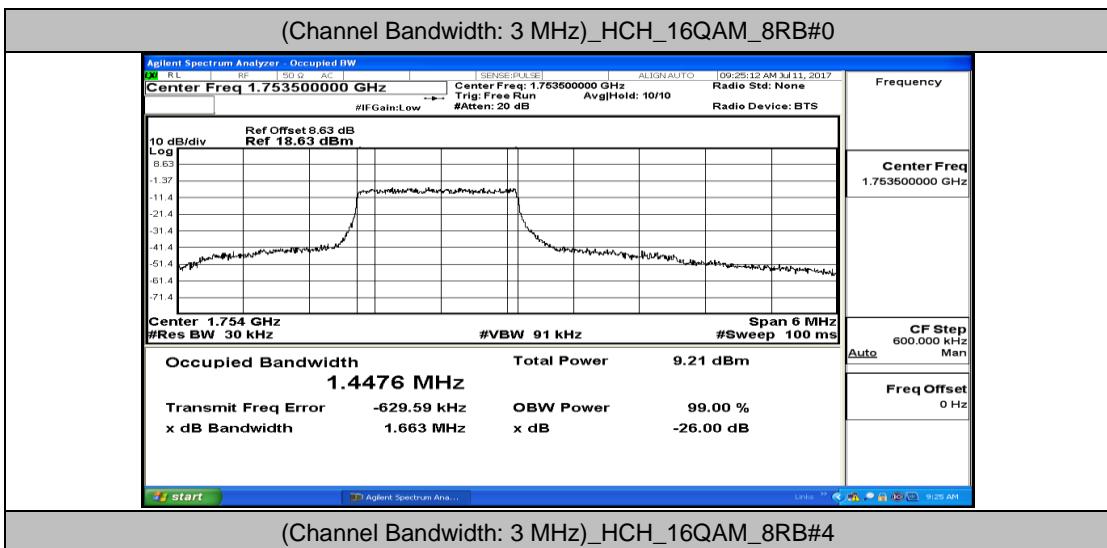
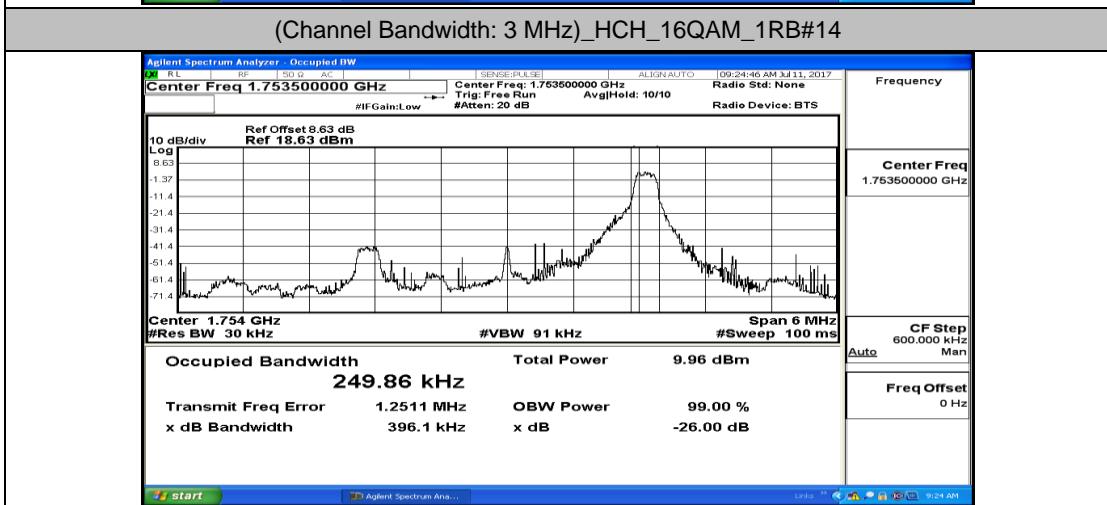
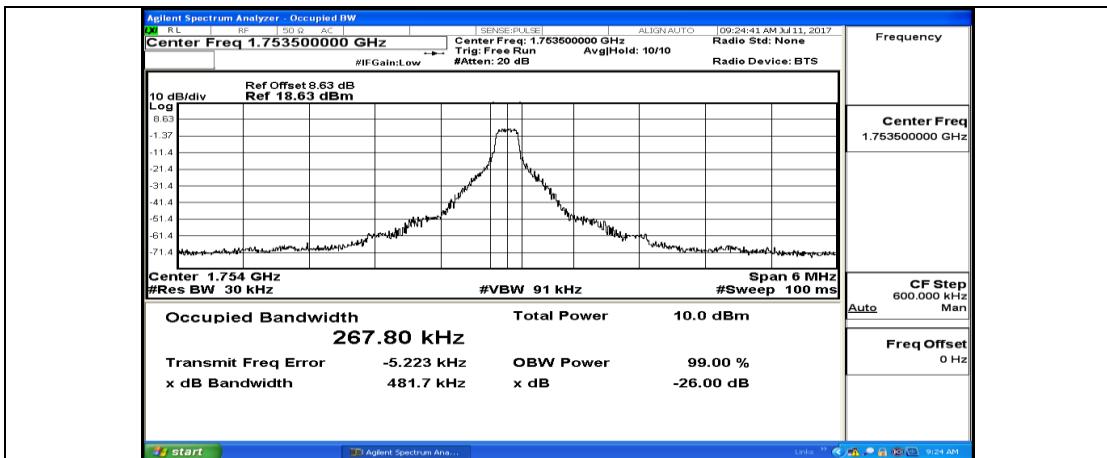


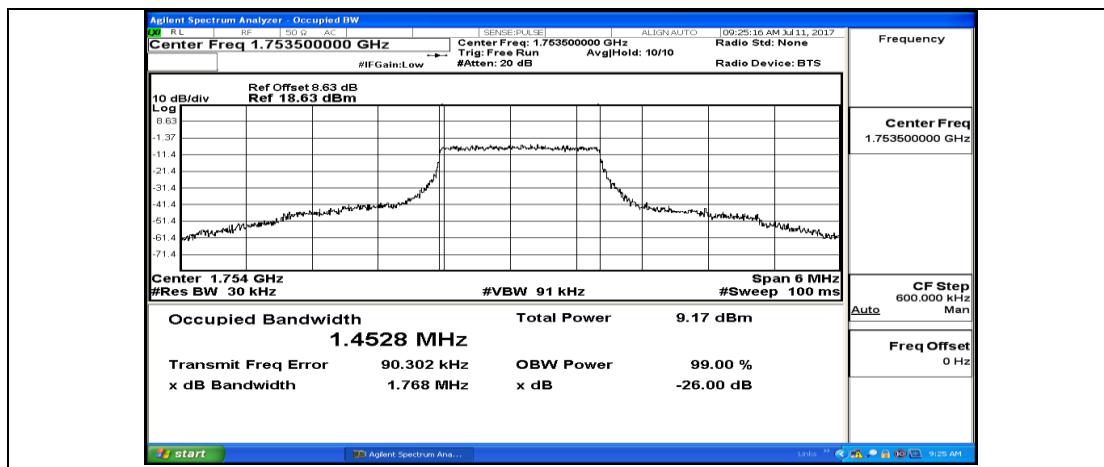
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14



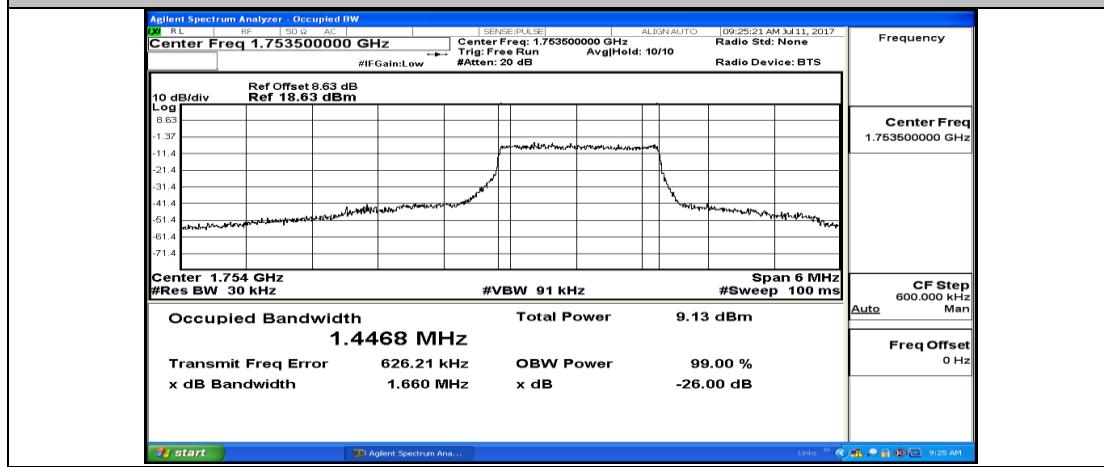
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7



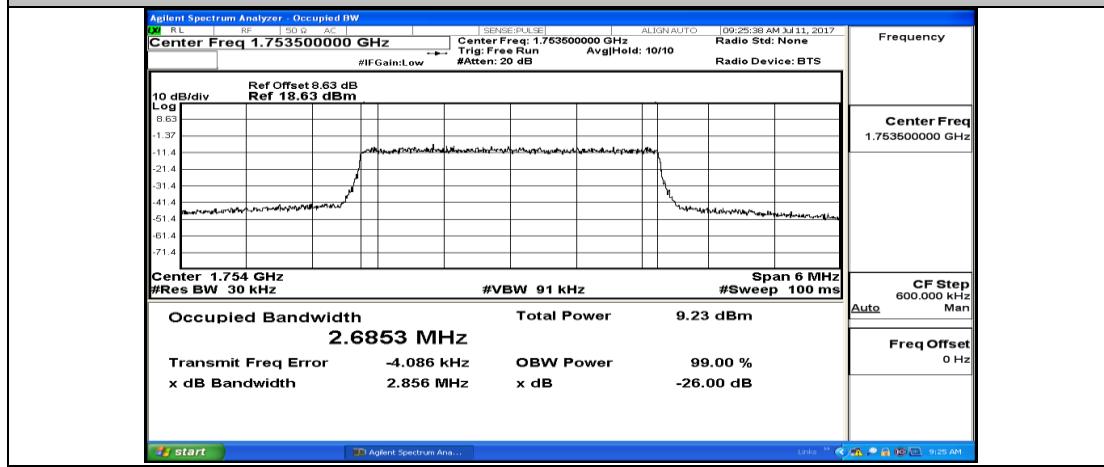




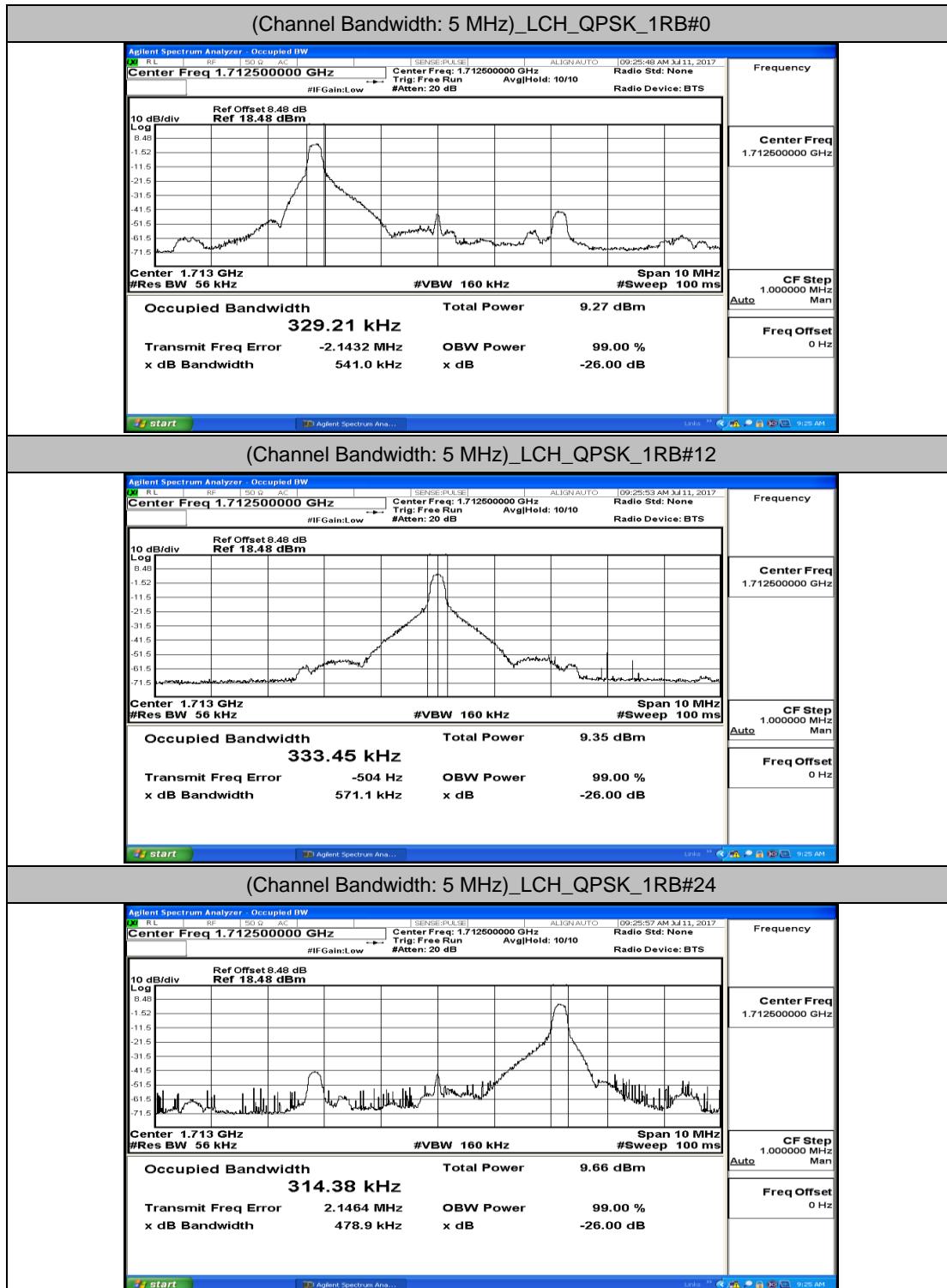
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7



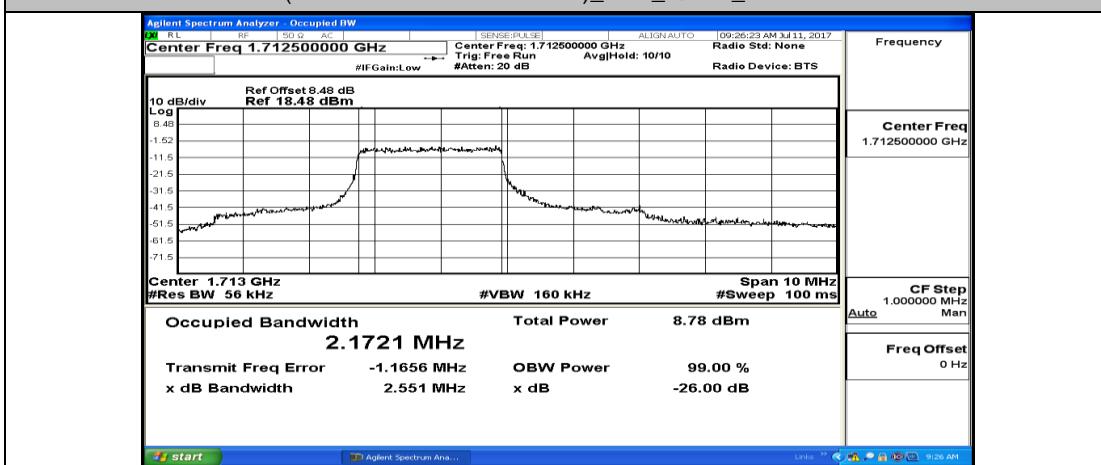
(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0



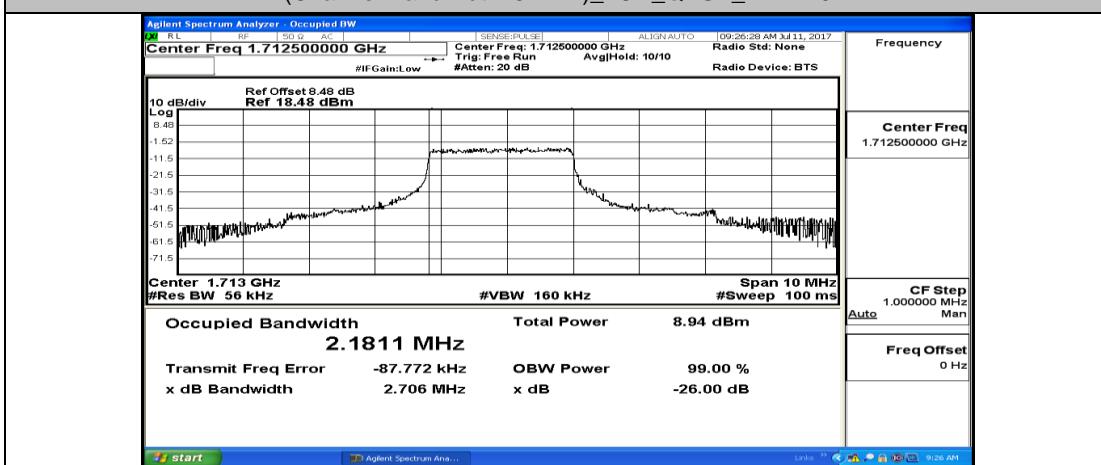
Channel Bandwidth: 5 MHz



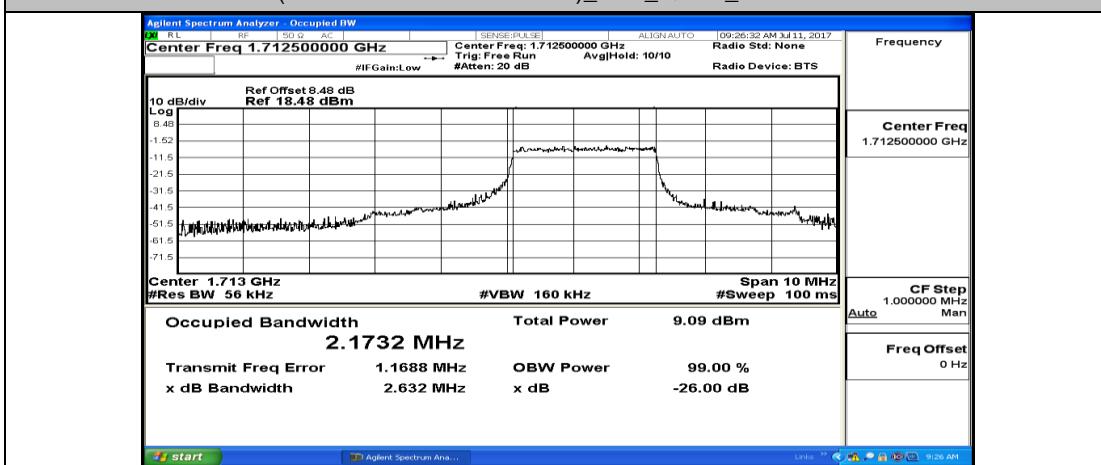
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



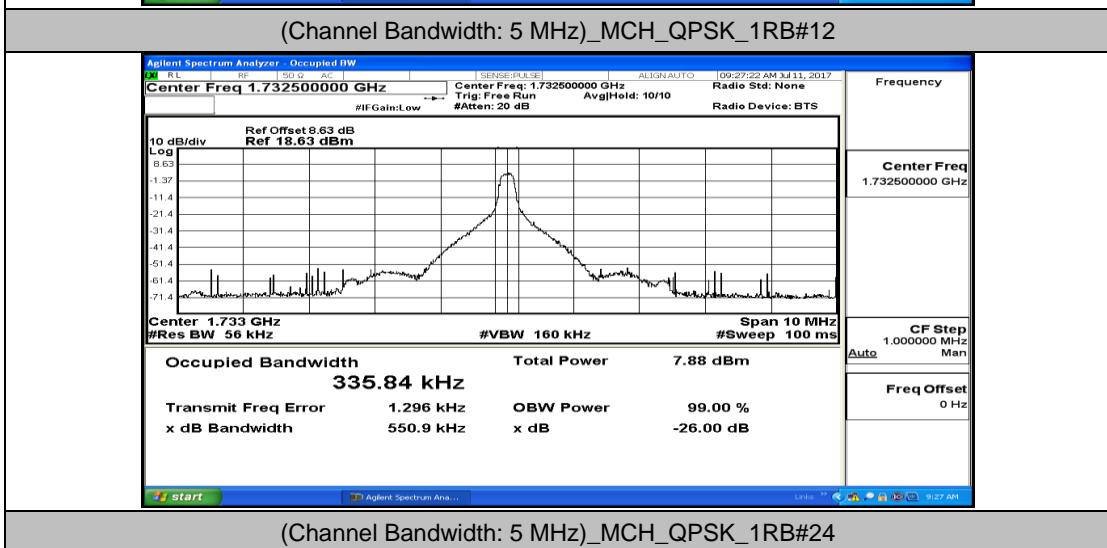
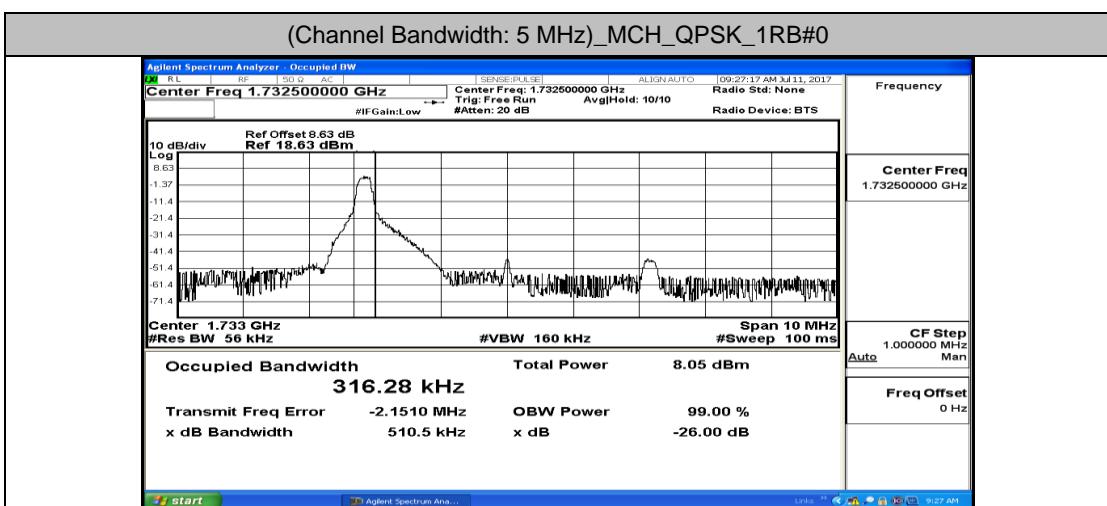
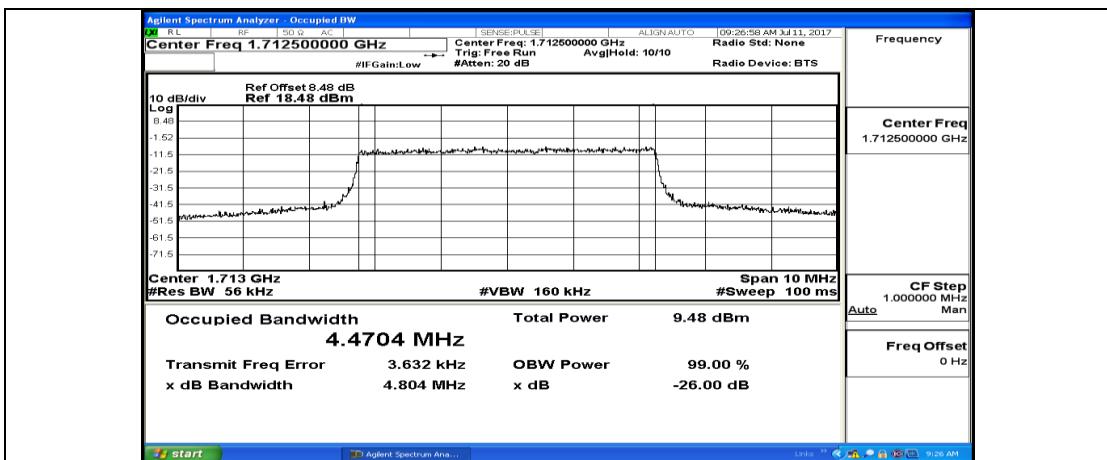
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



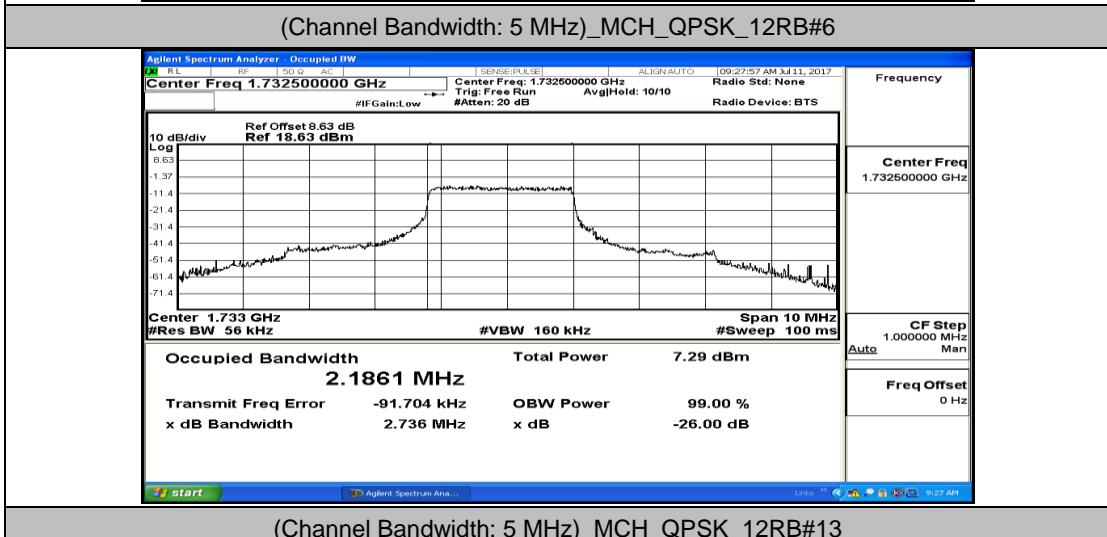
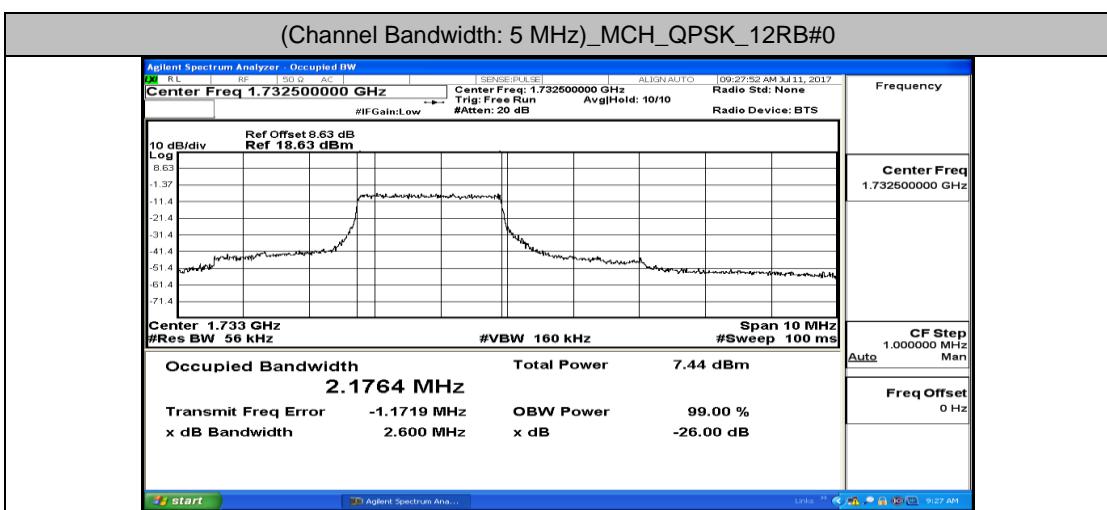
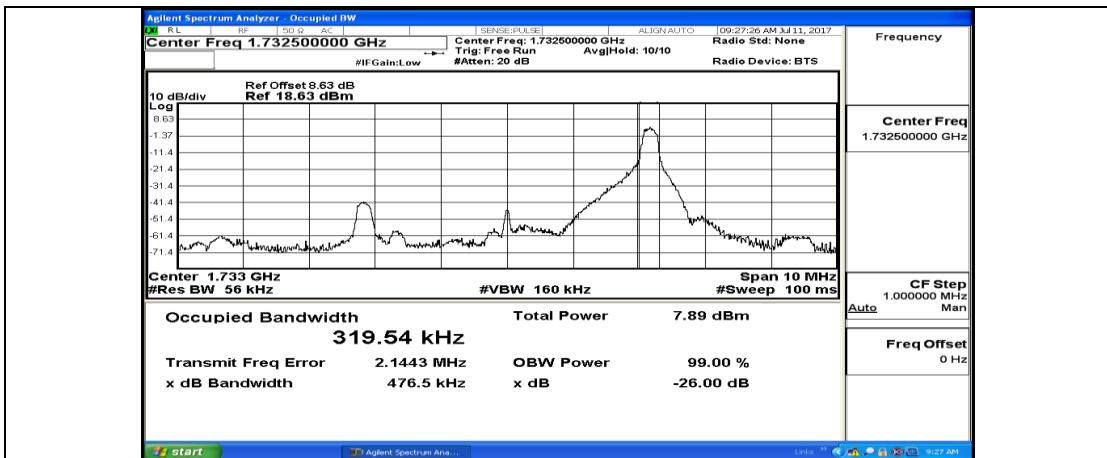
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13



(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13