

3. 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth h (MHz)	SCS (kHz)	Modulation	Channel	RB Configurat ion	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
n5	5	15	DFT-s Pi/2 BPSK	165300	25@0	4.4841	4.873	PASS
n5	5	15	DFT-s Pi/2 BPSK	167300	25@0	4.4816	4.831	PASS
n5	5	15	DFT-s Pi/2 BPSK	169300	25@0	4.4804	4.839	PASS
n5	5	15	DFT-s QPSK	165300	25@0	4.4785	4.805	PASS
n5	5	15	DFT-s QPSK	167300	25@0	4.4763	4.767	PASS
n5	5	15	DFT-s QPSK	169300	25@0	4.4769	4.838	PASS
n5	5	15	DFT-s 16QAM	165300	25@0	4.4791	4.853	PASS
n5	5	15	DFT-s 16QAM	167300	25@0	4.4690	4.806	PASS
n5	5	15	DFT-s 16QAM	169300	25@0	4.4692	4.814	PASS
n5	5	15	DFT-s 64QAM	165300	25@0	4.4817	4.467	PASS
n5	5	15	DFT-s 64QAM	167300	25@0	4.4742	4.788	PASS
n5	5	15	DFT-s 64QAM	169300	25@0	4.4811	4.764	PASS
n5	5	15	DFT-s 256QAM	165300	25@0	4.4851	4.782	PASS
n5	5	15	DFT-s 256QAM	167300	25@0	4.4848	4.773	PASS
n5	5	15	DFT-s 256QAM	169300	25@0	4.4880	4.805	PASS

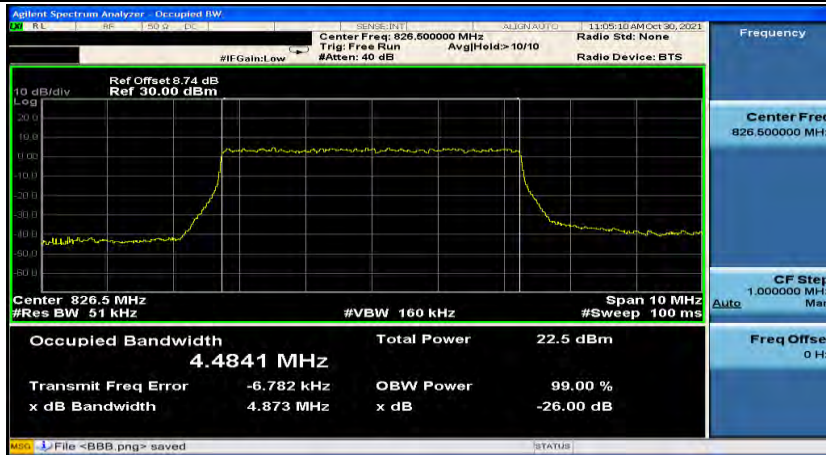
Band	Bandwidth (MHz)	SCS (kHz)	Modulation	Channel	RB Configurat ion	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
n5	10	15	DFT-s Pi/2 BPSK	165800	50@0	8.9216	9.309	PASS
n5	10	15	DFT-s Pi/2 BPSK	167300	50@0	8.9296	9.341	PASS
n5	10	15	DFT-s Pi/2 BPSK	168800	50@0	8.9133	9.322	PASS
n5	10	15	DFT-s QPSK	165800	50@0	8.9255	9.369	PASS
n5	10	15	DFT-s QPSK	167300	50@0	8.9377	9.373	PASS
n5	10	15	DFT-s QPSK	168800	50@0	8.9245	9.343	PASS
n5	10	15	DFT-s 16QAM	165800	50@0	8.9217	9.335	PASS
n5	10	15	DFT-s 16QAM	167300	50@0	8.9251	9.348	PASS
n5	10	15	DFT-s 16QAM	168800	50@0	8.9148	9.326	PASS
n5	10	15	DFT-s 64QAM	165800	50@0	8.9158	9.397	PASS
n5	10	15	DFT-s 64QAM	167300	50@0	8.9179	9.398	PASS
n5	10	15	DFT-s 64QAM	168800	50@0	8.9038	9.347	PASS
n5	10	15	DFT-s 256QAM	165800	50@0	8.9331	9.351	PASS
n5	10	15	DFT-s 256QAM	167300	50@0	8.9451	9.344	PASS
n5	10	15	DFT-s 256QAM	168800	50@0	8.9317	9.345	PASS

Band	Bandwidth h (MHz)	SCS (kHz)	Modulation	Channel	RB Configurat ion	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
n5	15	15	DFT-s Pi/2 BPSK	166300	75@0	13.418	14.01	PASS
n5	15	15	DFT-s Pi/2 BPSK	167300	75@0	13.426	13.99	PASS
n5	15	15	DFT-s Pi/2 BPSK	168300	75@0	13.413	13.94	PASS
n5	15	15	DFT-s QPSK	166300	75@0	13.382	13.88	PASS
n5	15	15	DFT-s QPSK	167300	75@0	13.394	13.96	PASS
n5	15	15	DFT-s QPSK	168300	75@0	13.381	13.99	PASS
n5	15	15	DFT-s 16QAM	166300	75@0	13.380	13.95	PASS
n5	15	15	DFT-s 16QAM	167300	75@0	13.398	13.97	PASS
n5	15	15	DFT-s 16QAM	168300	75@0	13.382	13.98	PASS
n5	15	15	DFT-s 64QAM	166300	75@0	13.407	14.01	PASS
n5	15	15	DFT-s 64QAM	167300	75@0	13.420	14.00	PASS
n5	15	15	DFT-s 64QAM	168300	75@0	13.398	13.94	PASS
n5	15	15	DFT-s 256QAM	166300	75@0	13.424	13.95	PASS
n5	15	15	DFT-s 256QAM	167300	75@0	13.438	13.95	PASS
n5	15	15	DFT-s 256QAM	168300	75@0	13.422	13.93	PASS

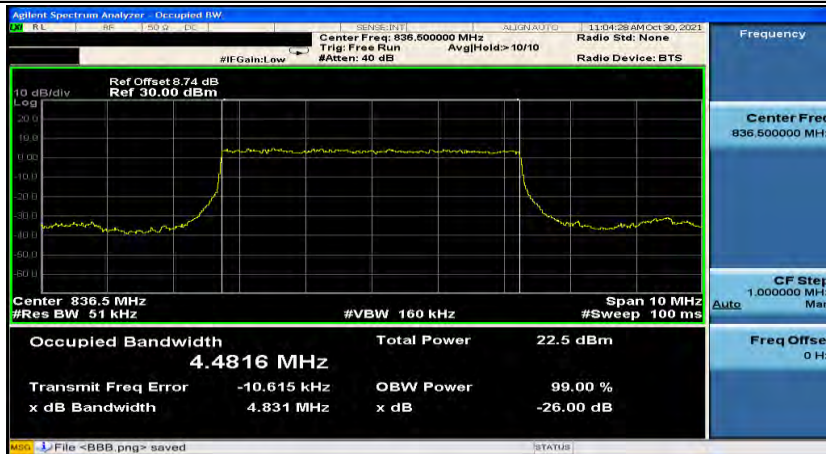
Band	Bandwidth (MHz)	SCS (kHz)	Modulation	Channel	RB Configurat ion	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
n5	20	15	DFT-s Pi/2 BPSK	166800	100@0	17.870	18.58	PASS
n5	20	15	DFT-s Pi/2 BPSK	167300	100@0	17.878	18.57	PASS
n5	20	15	DFT-s Pi/2 BPSK	167800	100@0	17.857	18.58	PASS
n5	20	15	DFT-s QPSK	166800	100@0	17.848	18.55	PASS
n5	20	15	DFT-s QPSK	167300	100@0	17.858	18.61	PASS
n5	20	15	DFT-s QPSK	167800	100@0	17.839	18.58	PASS
n5	20	15	DFT-s 16QAM	166800	100@0	17.823	18.55	PASS
n5	20	15	DFT-s 16QAM	167300	100@0	17.826	18.55	PASS
n5	20	15	DFT-s 16QAM	167800	100@0	17.820	18.57	PASS
n5	20	15	DFT-s 64QAM	166800	100@0	17.868	18.58	PASS
n5	20	15	DFT-s 64QAM	167300	100@0	17.874	18.57	PASS
n5	20	15	DFT-s 64QAM	167800	100@0	17.861	18.57	PASS
n5	20	15	DFT-s 256QAM	166800	100@0	17.858	18.59	PASS
n5	20	15	DFT-s 256QAM	167300	100@0	17.857	18.57	PASS
n5	20	15	DFT-s 256QAM	167800	100@0	17.849	18.56	PASS

Test Graphs

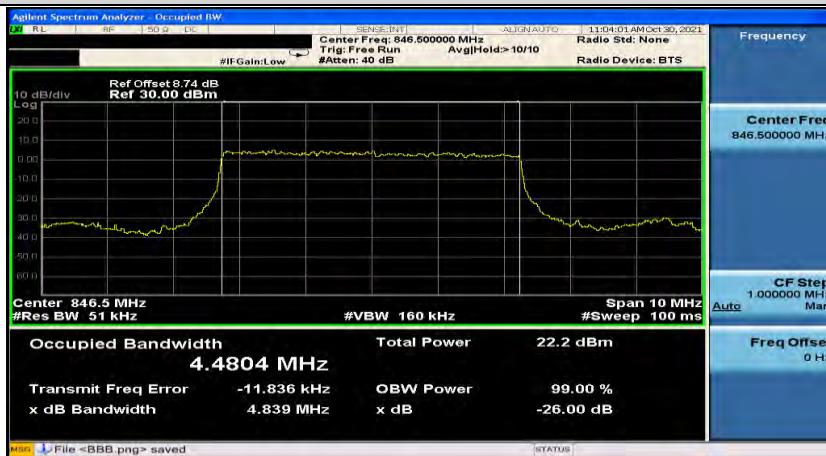
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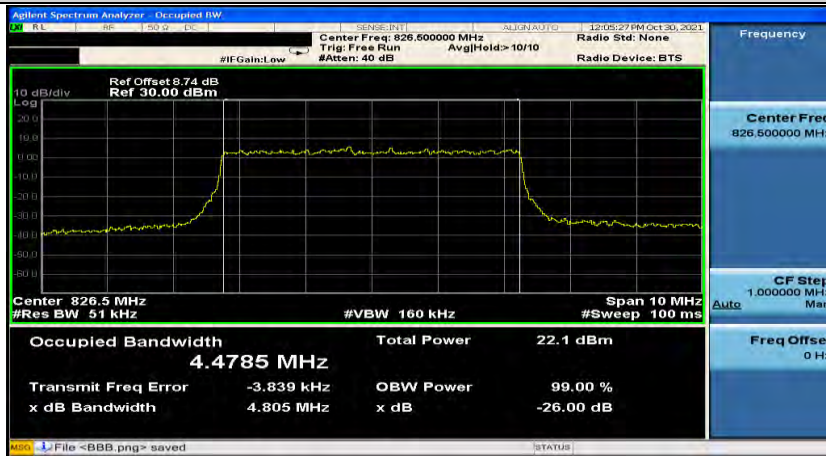
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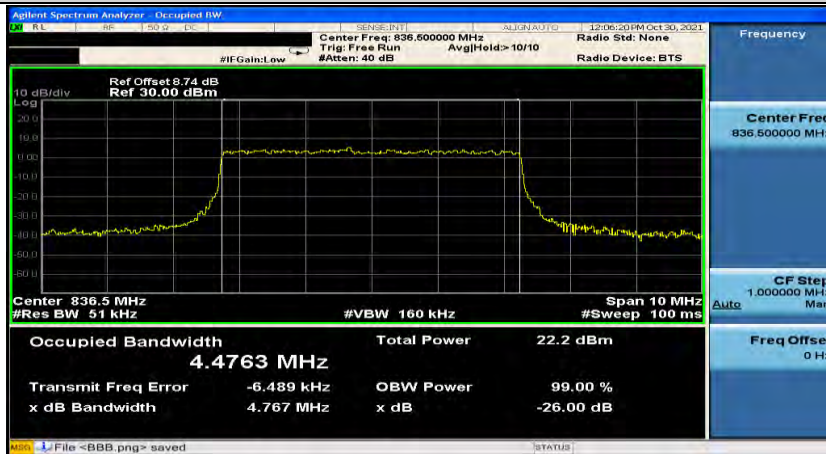
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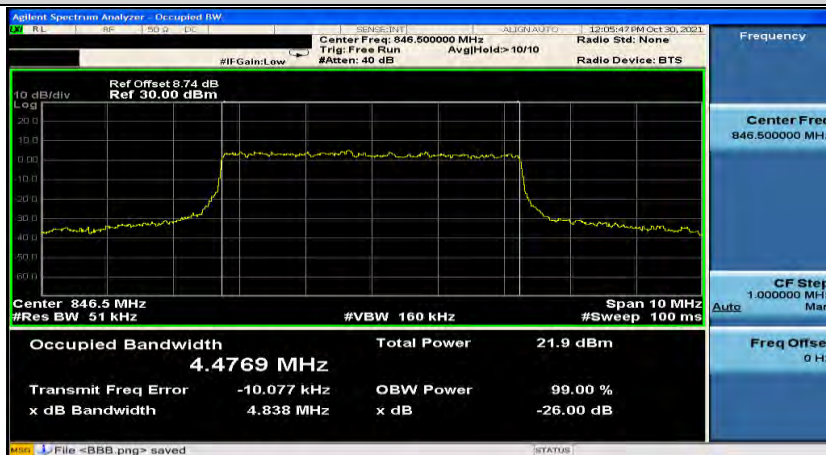
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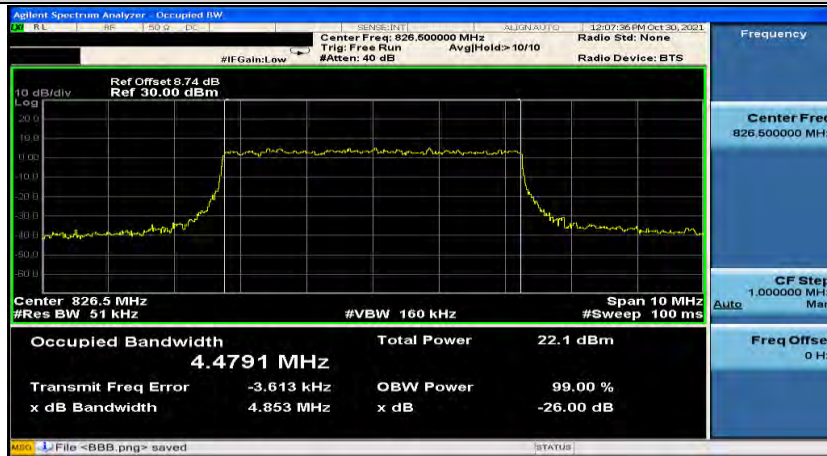
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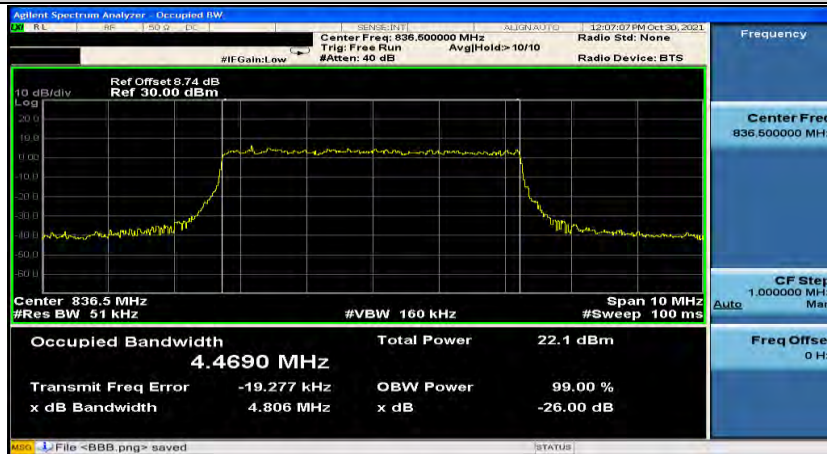
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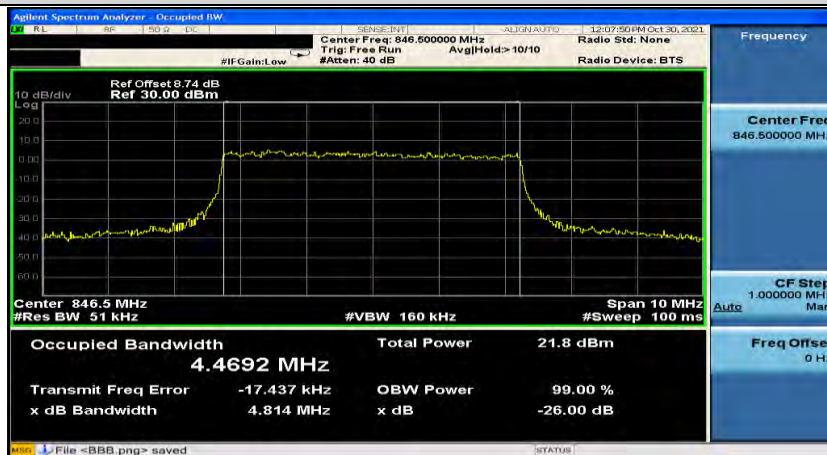
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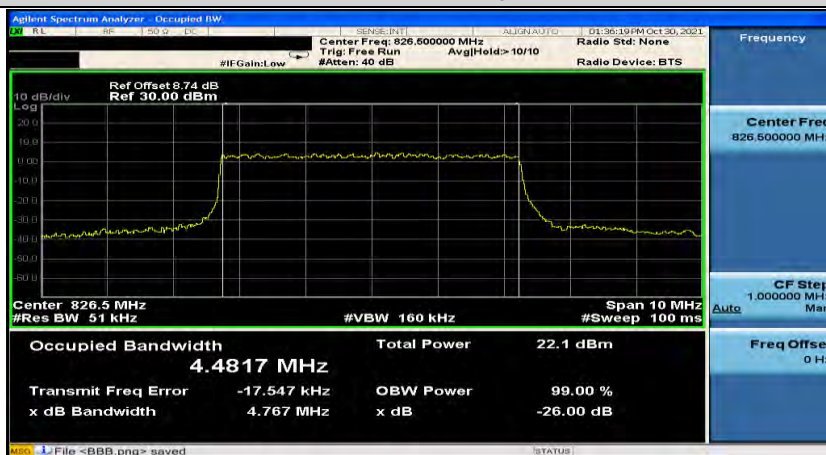
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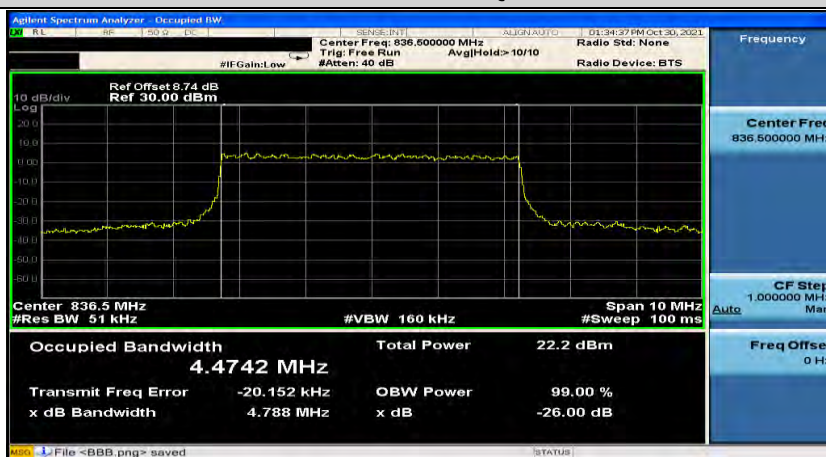
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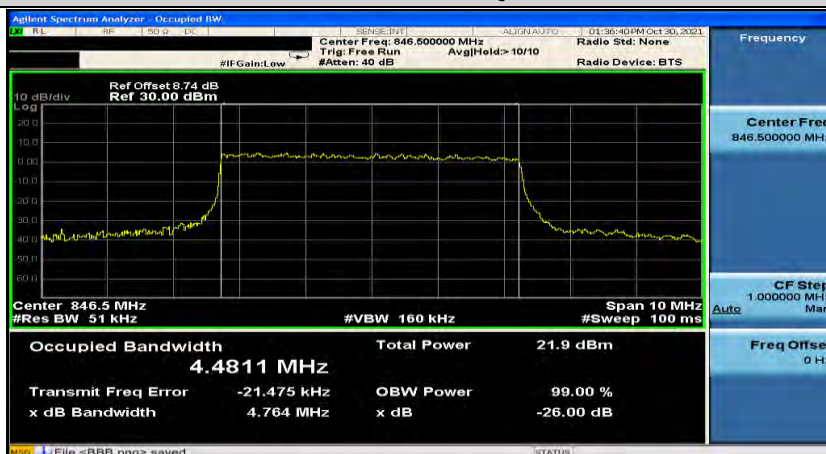
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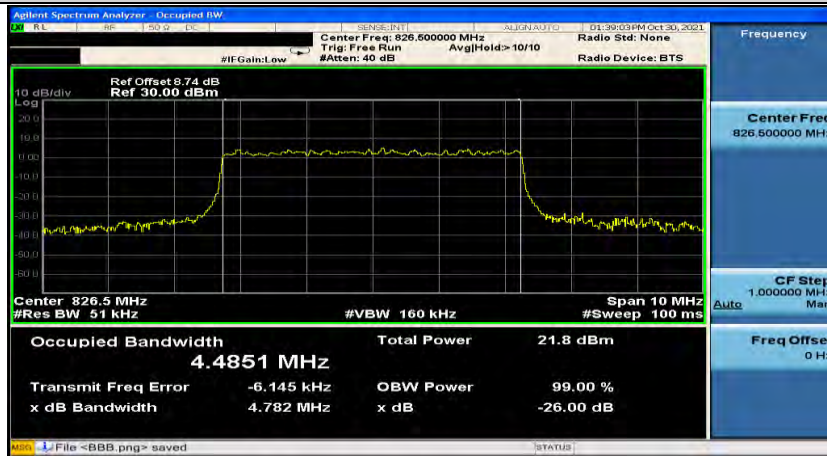
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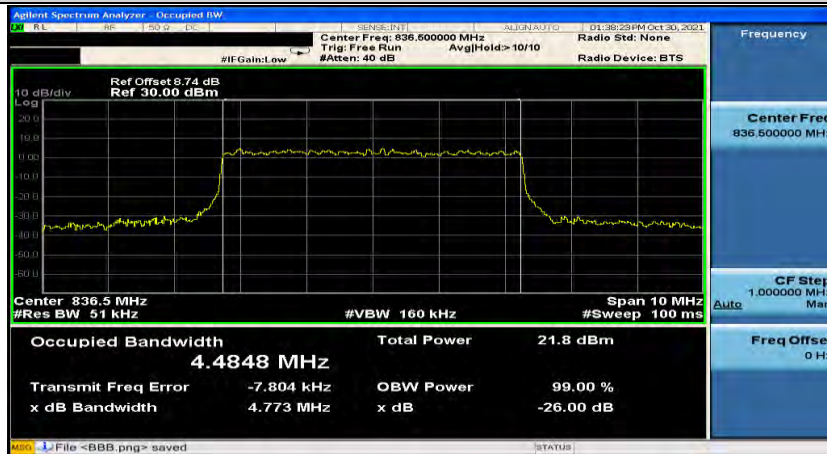
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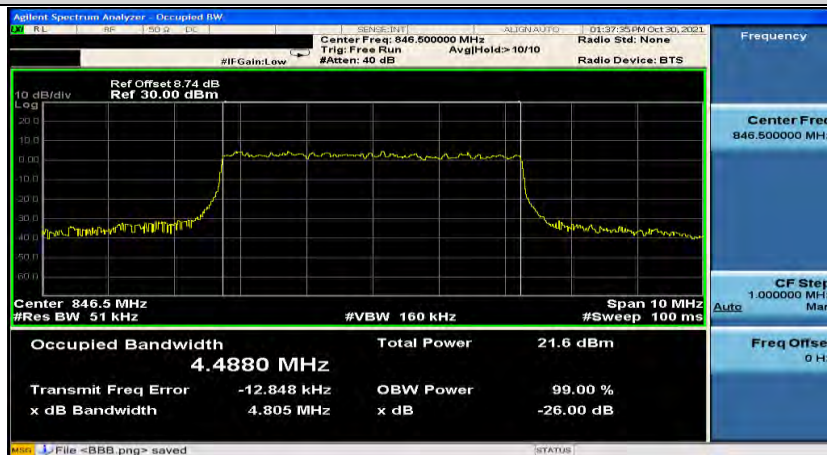
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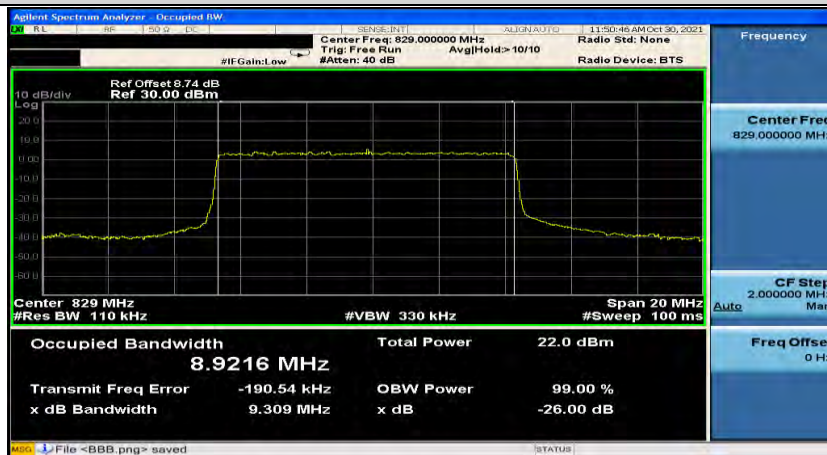
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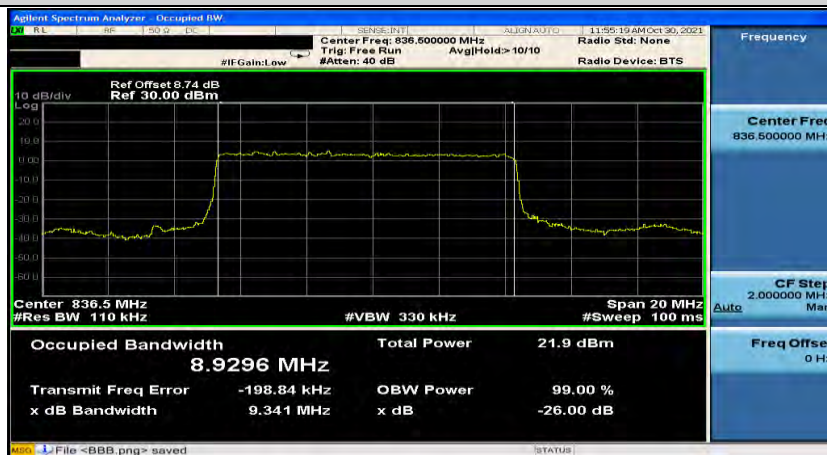
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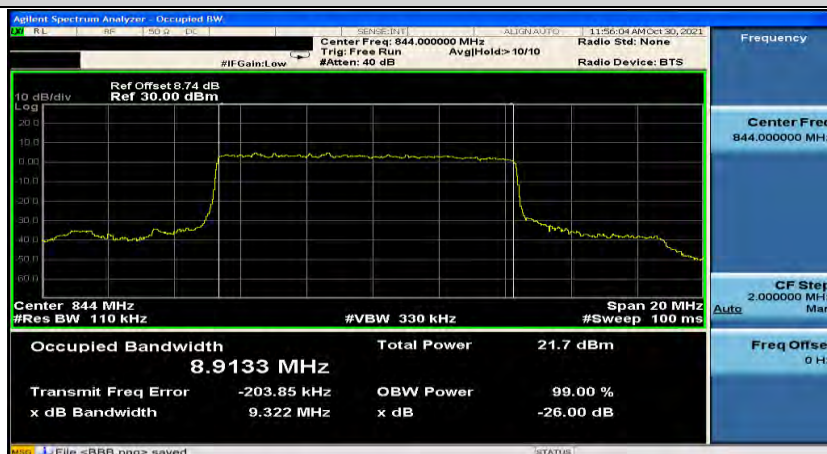
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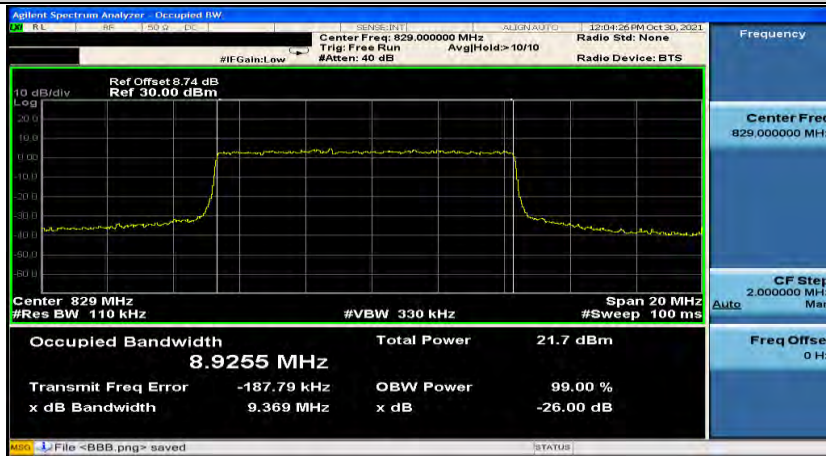
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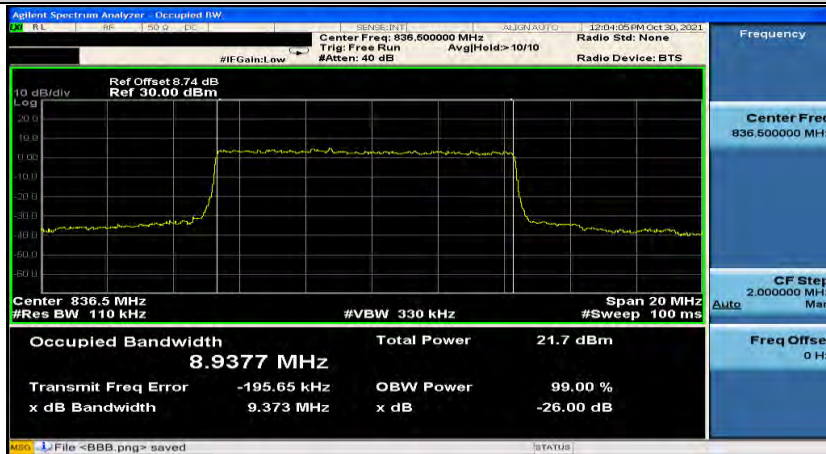
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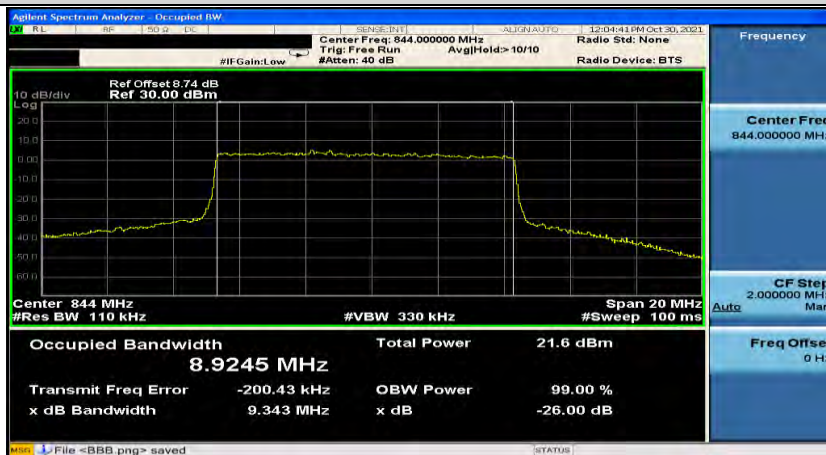
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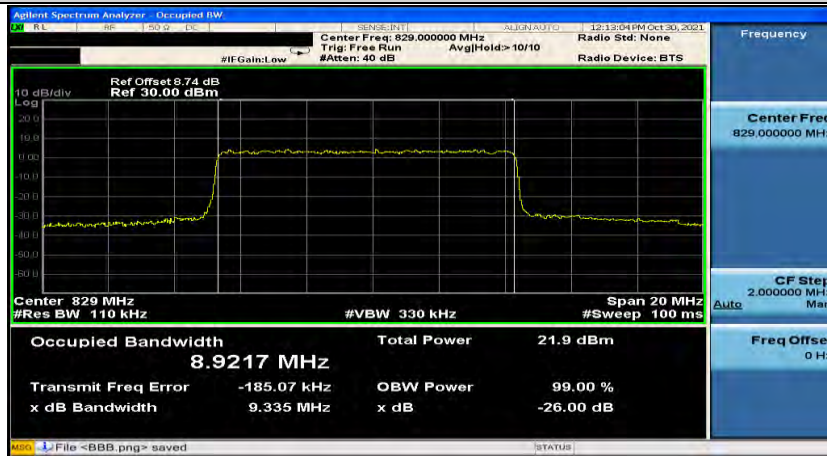
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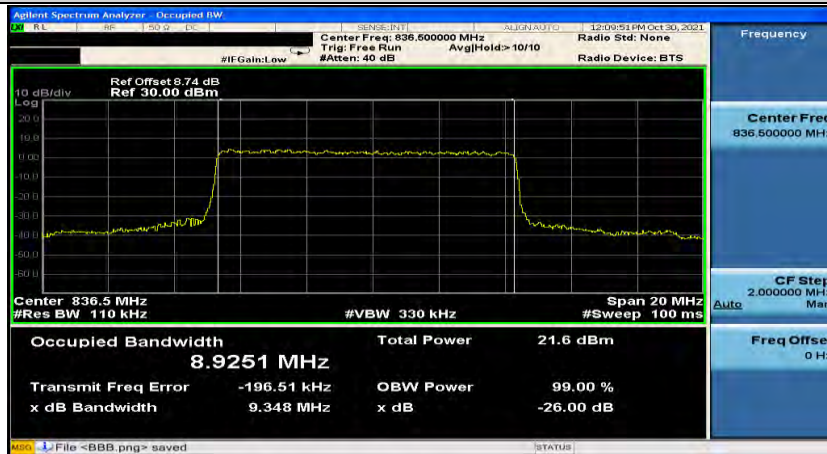
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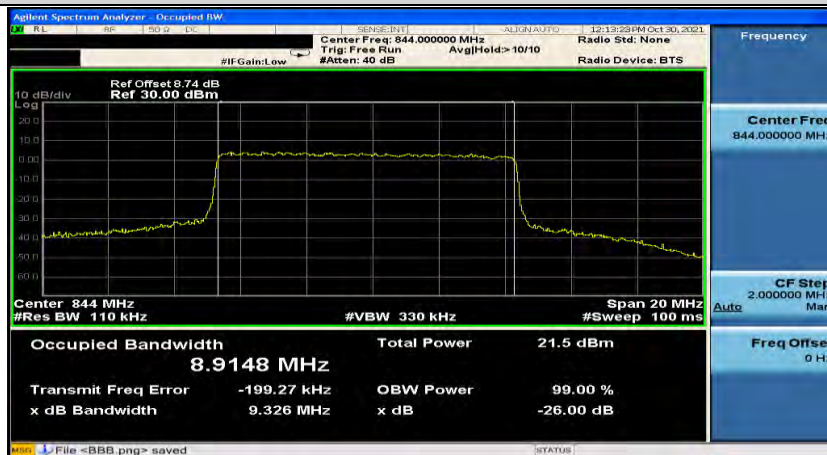
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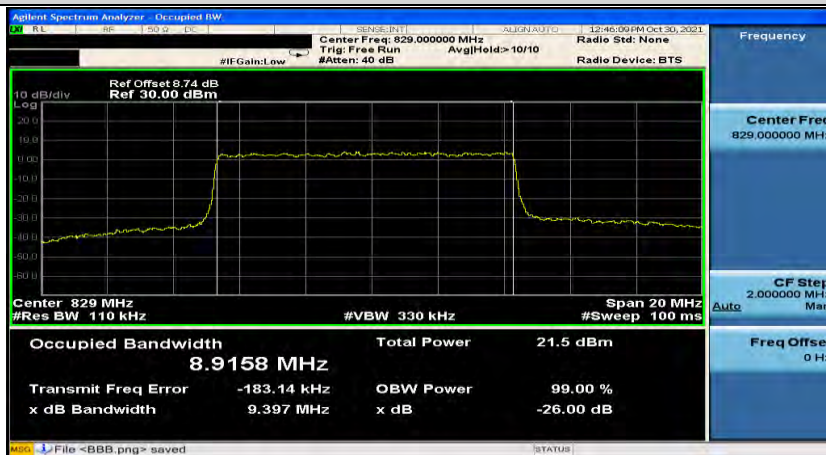
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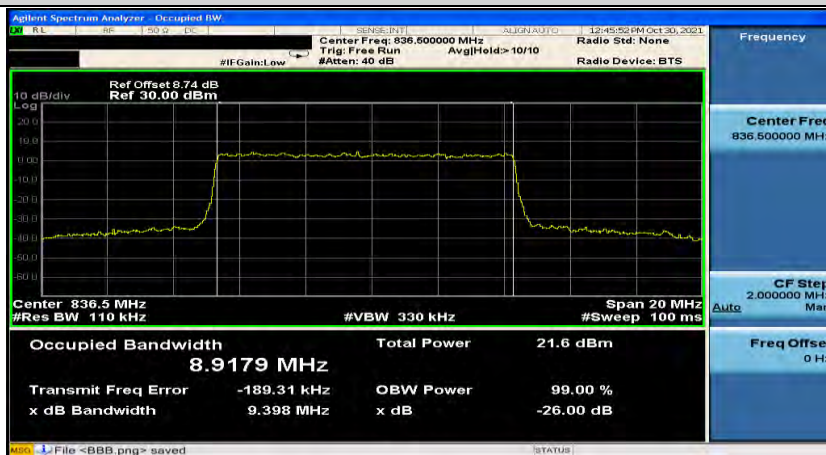
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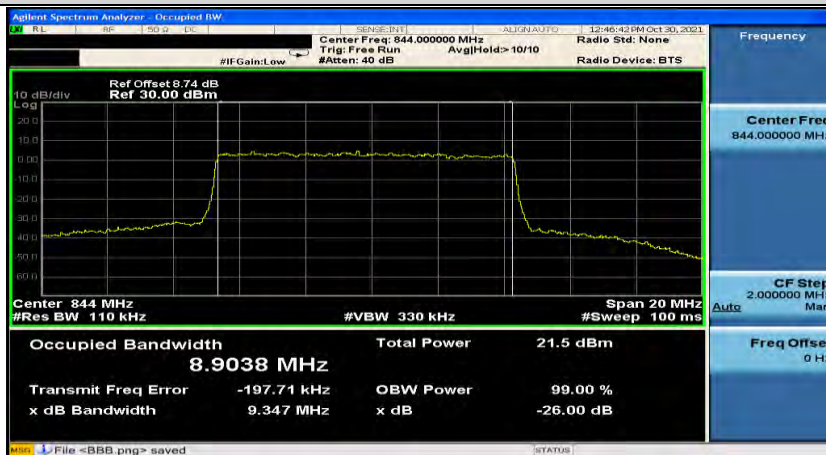
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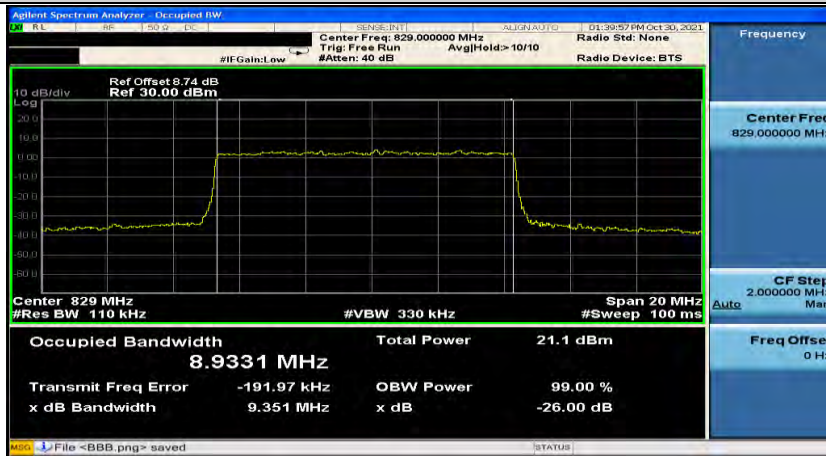
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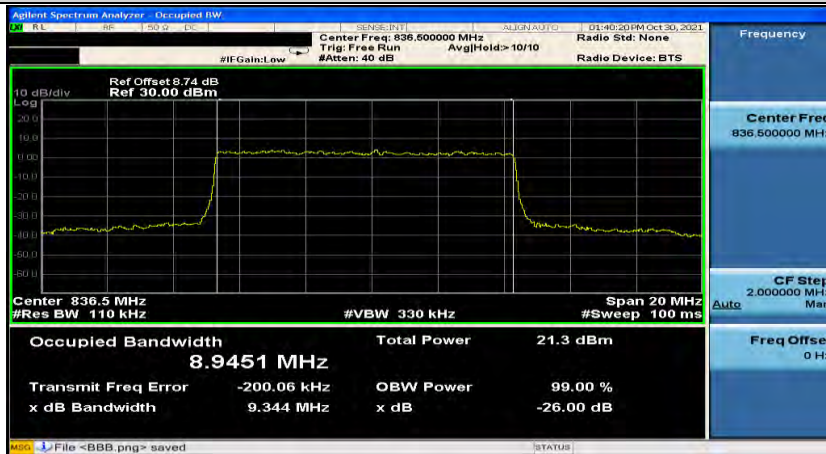
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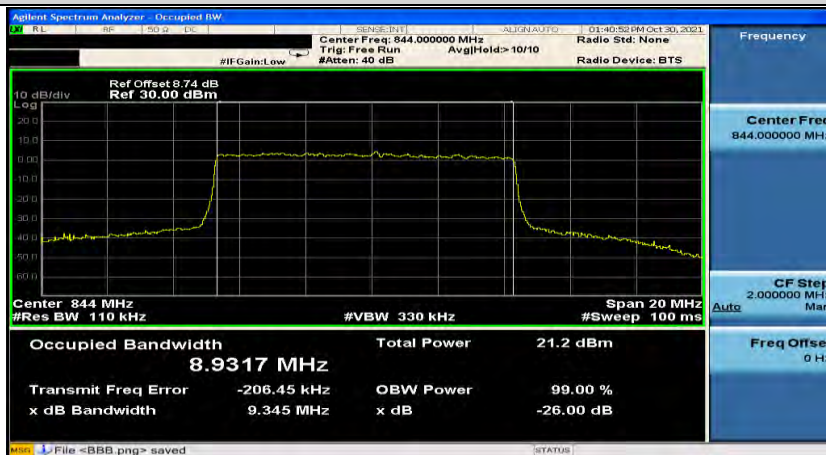
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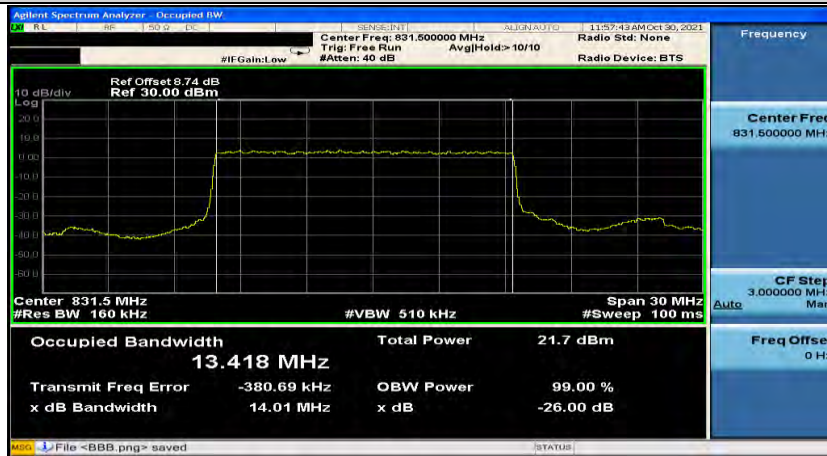
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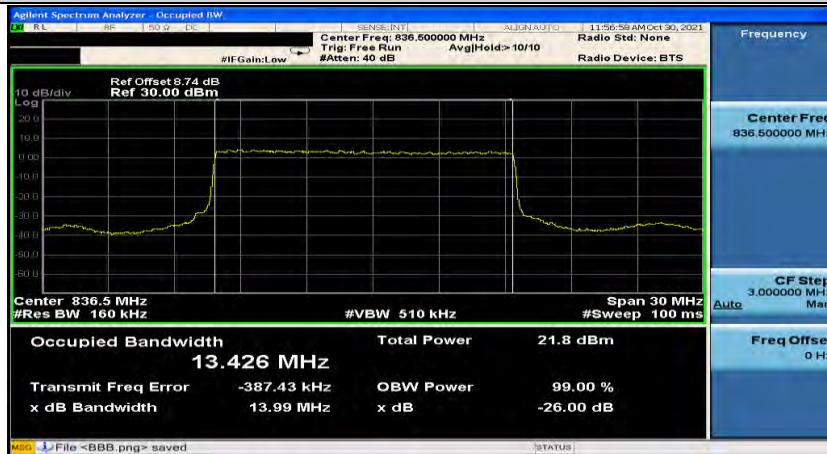
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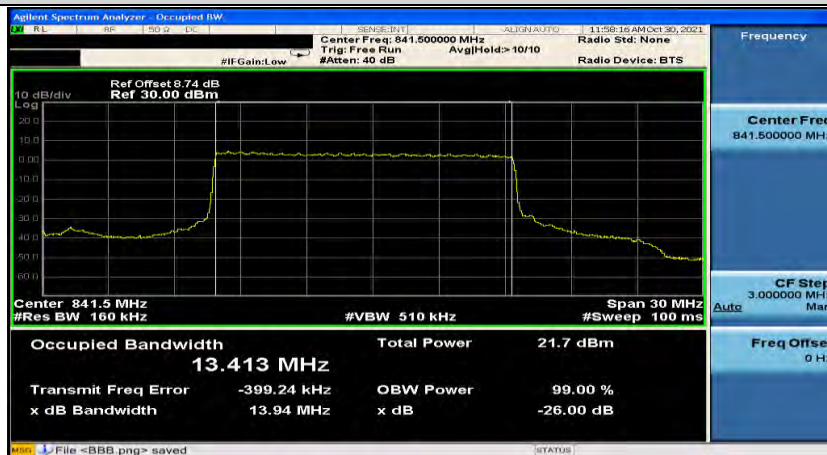
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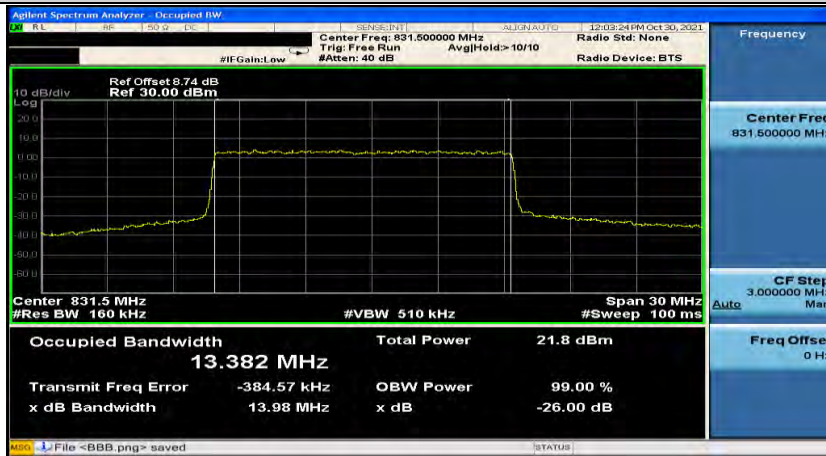
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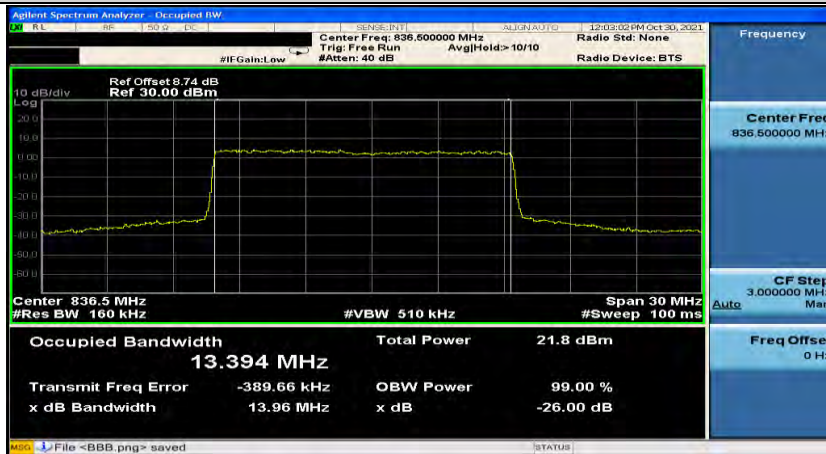
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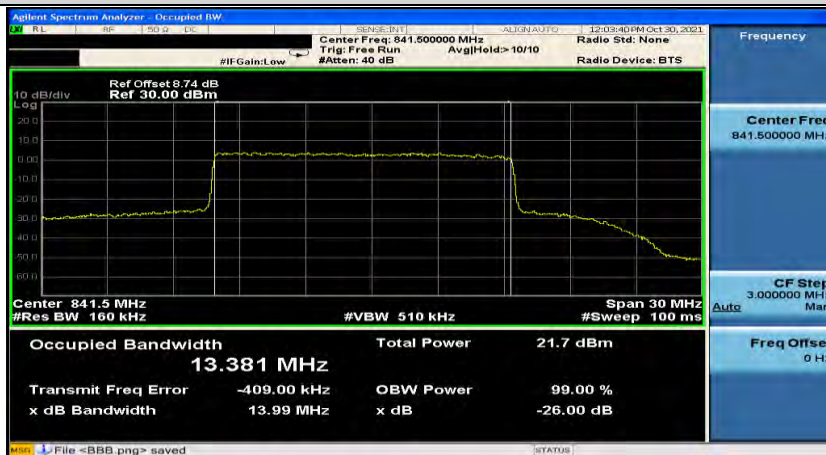
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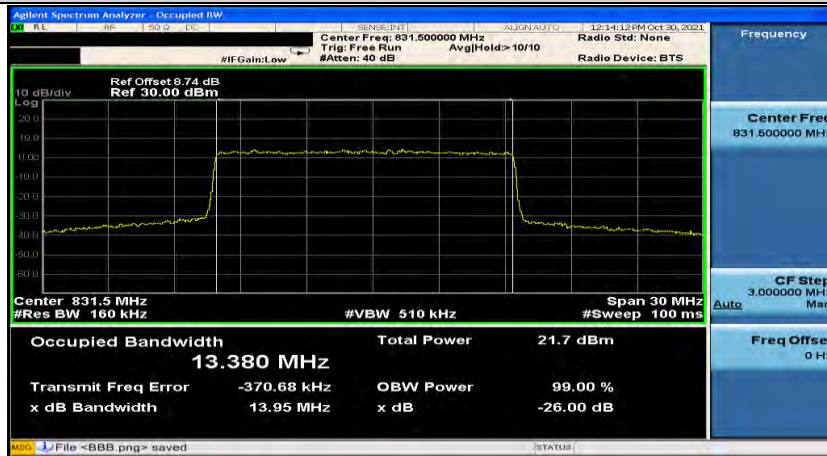
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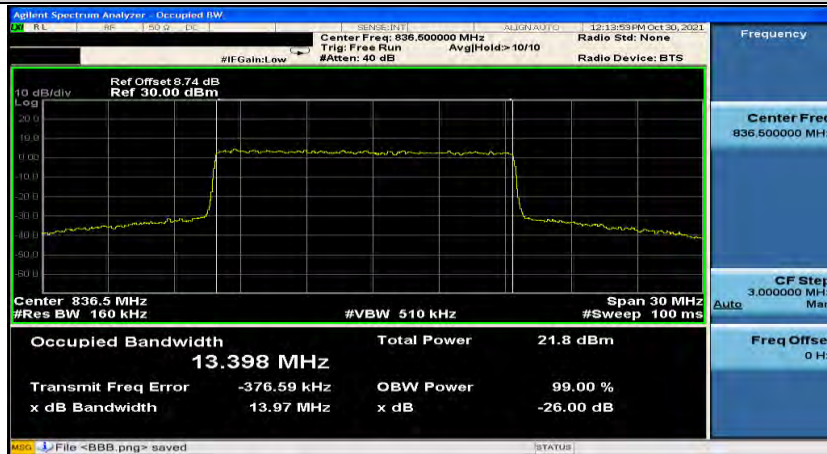
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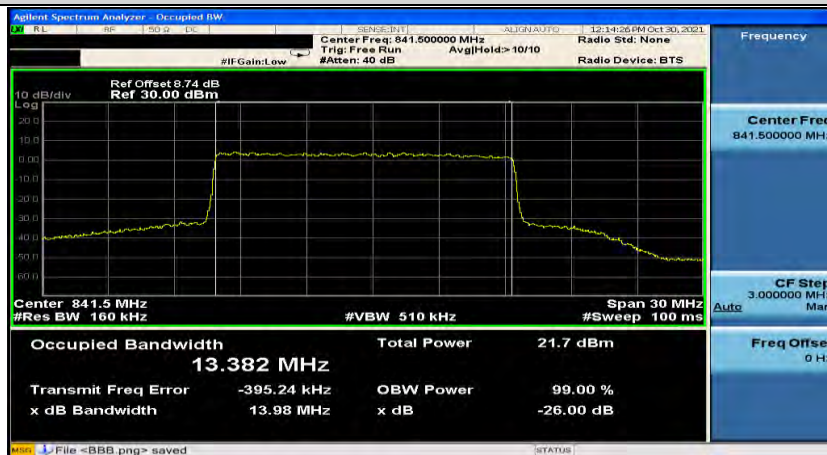
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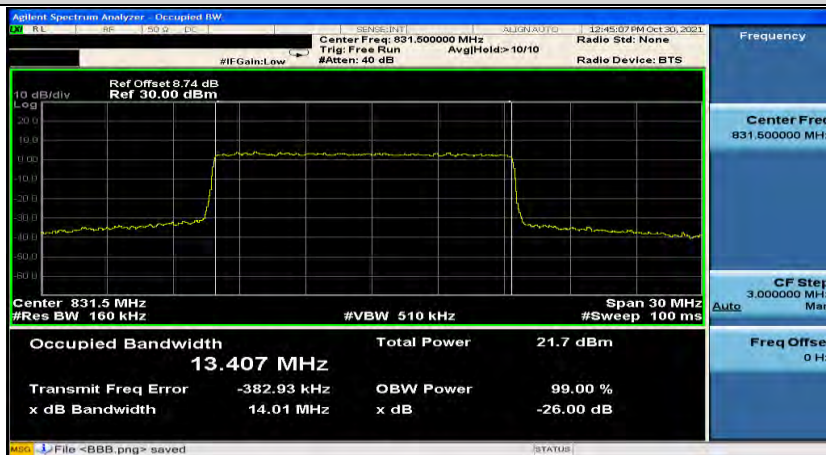
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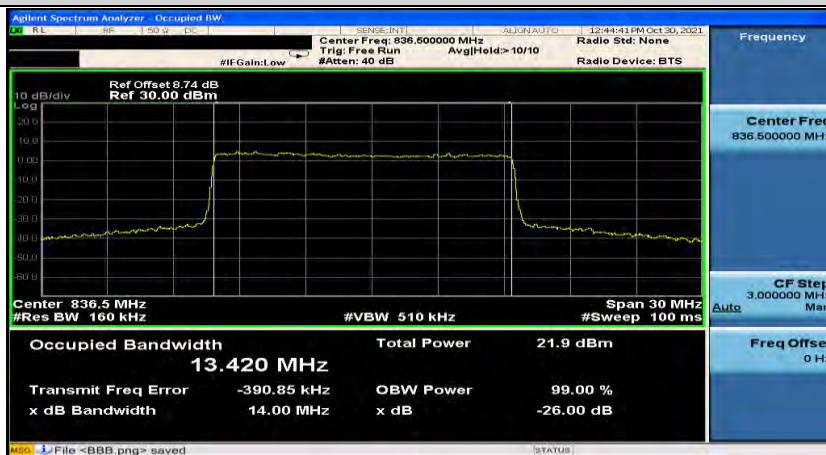
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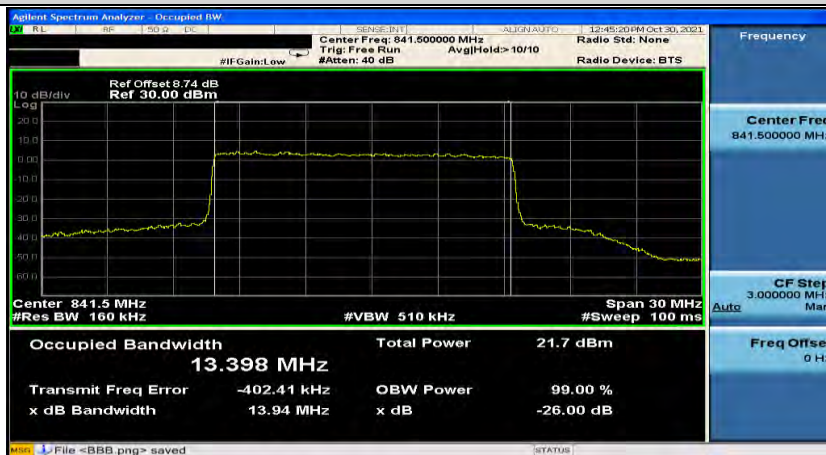
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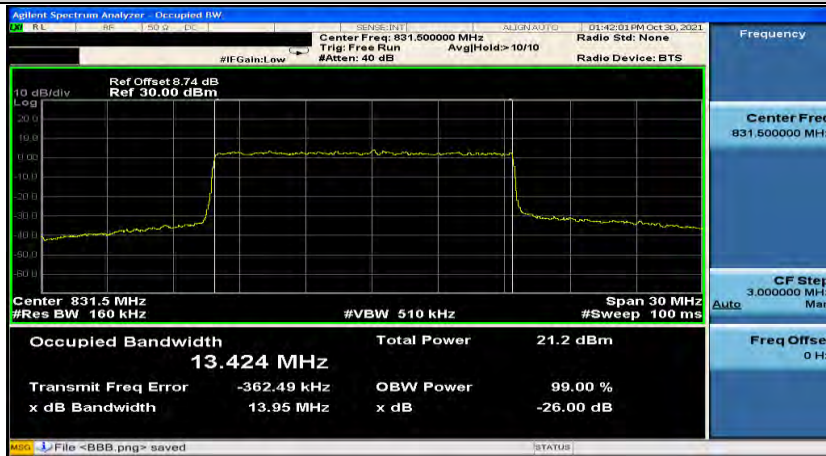
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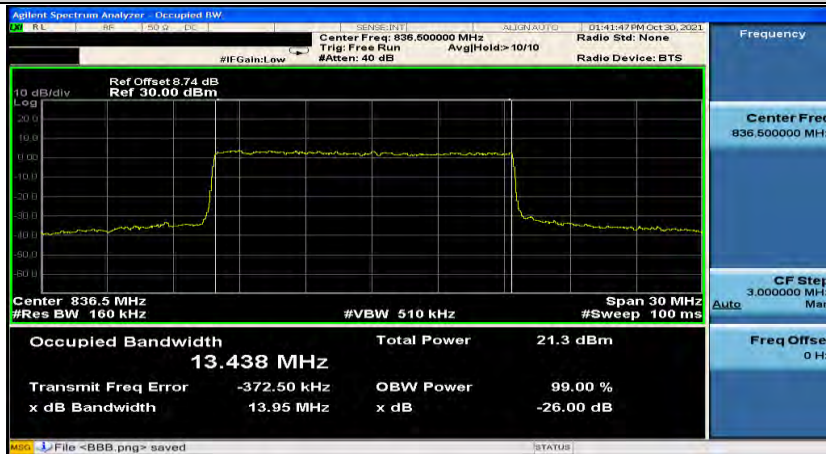
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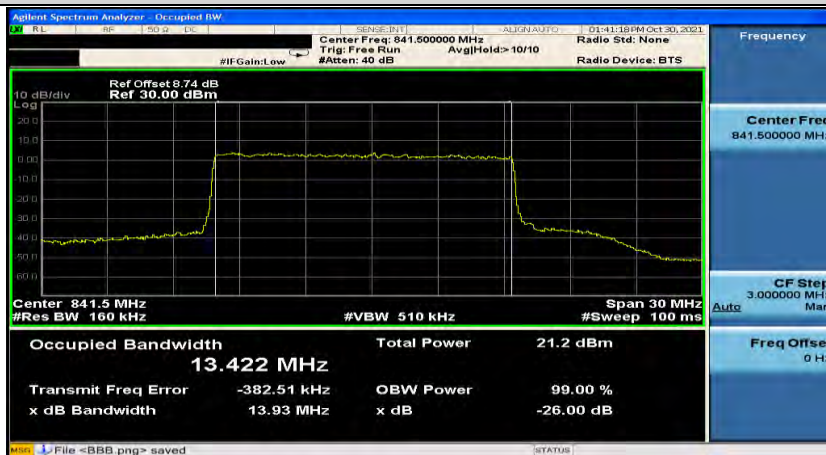
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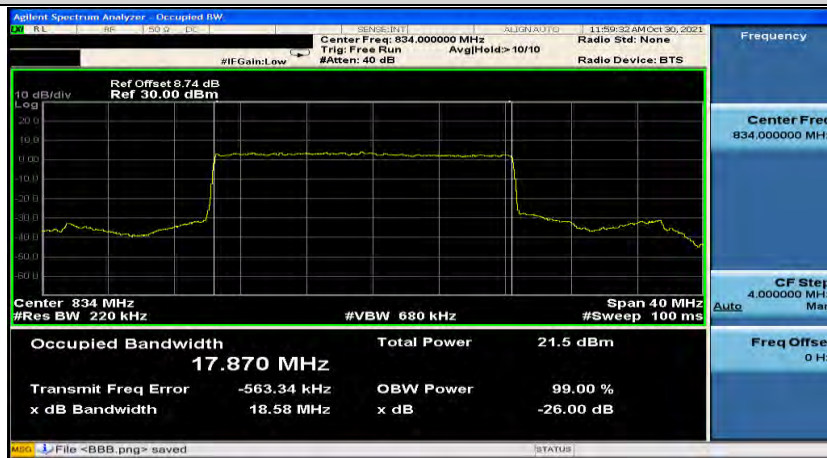
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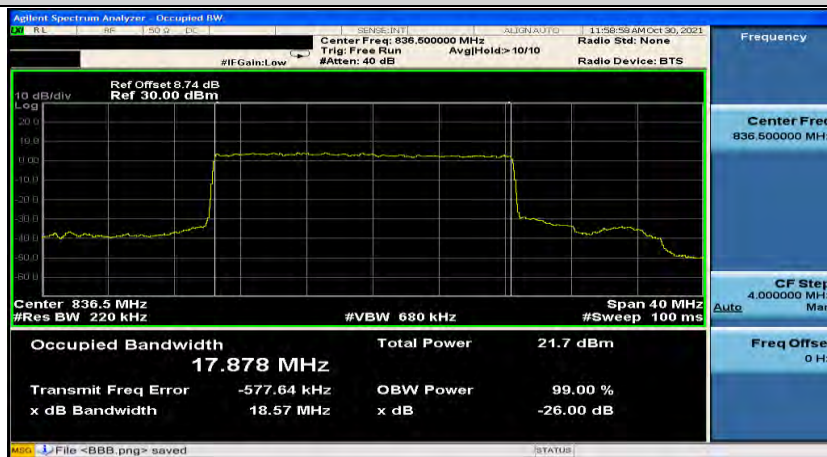
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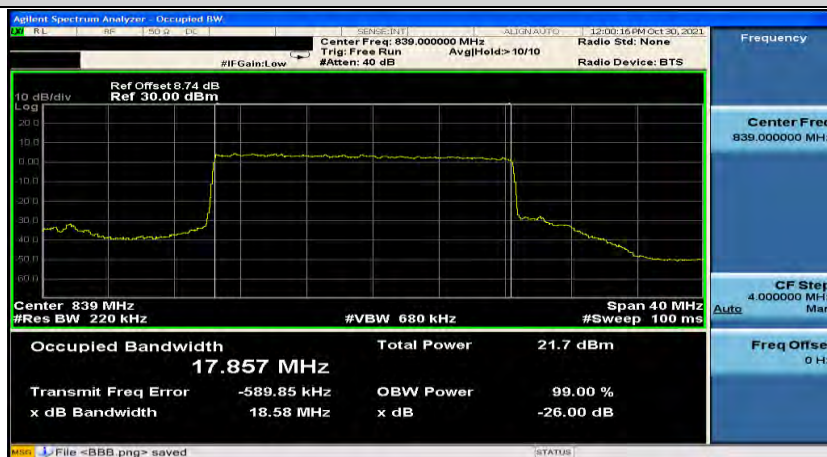
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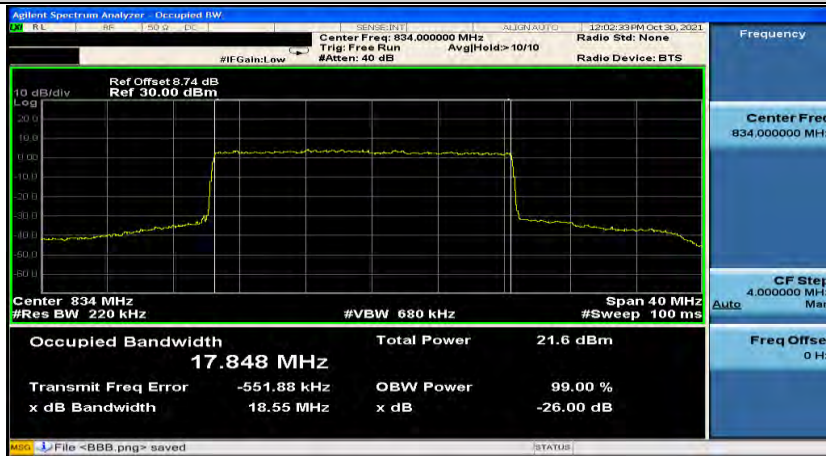
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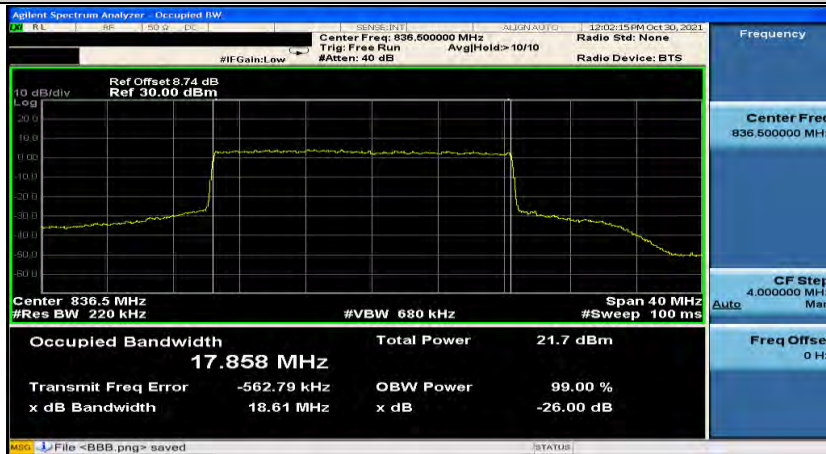
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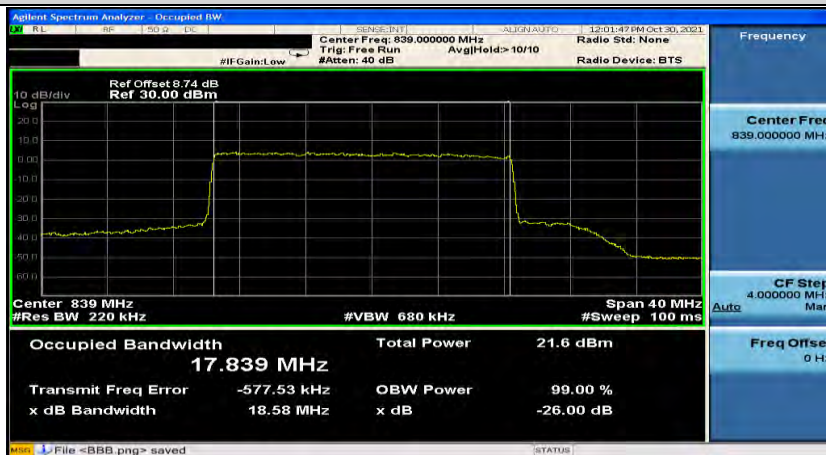
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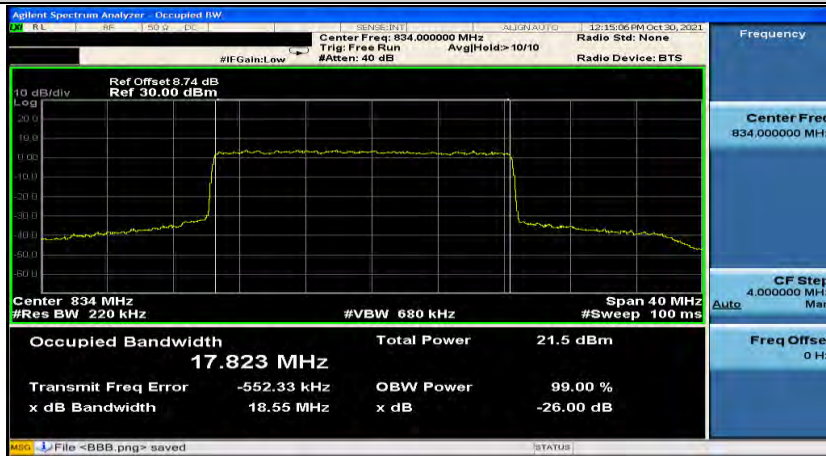
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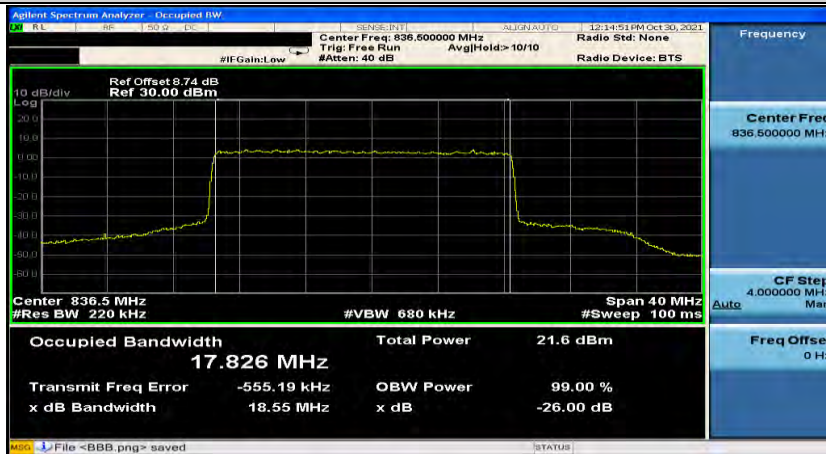
n5-20MHz-SCS 15kHz-DFT-s QPSK-167800-100RB#0



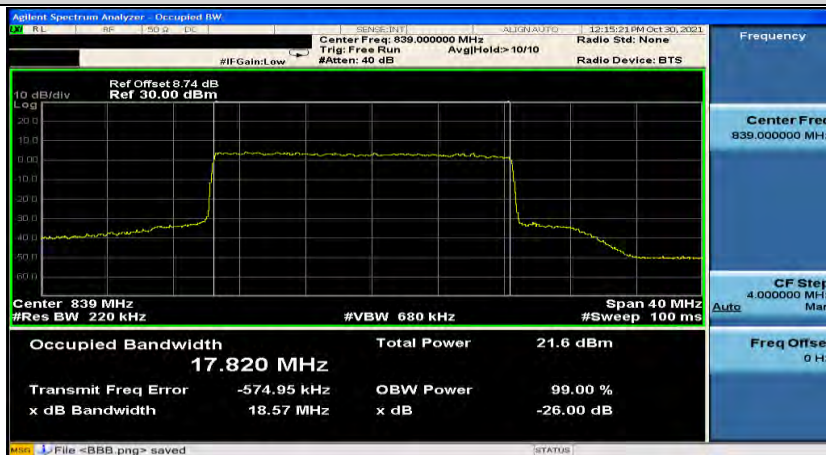
n5-20MHz-SCS 15kHz-DFT-s 16QAM-166800-100RB#0



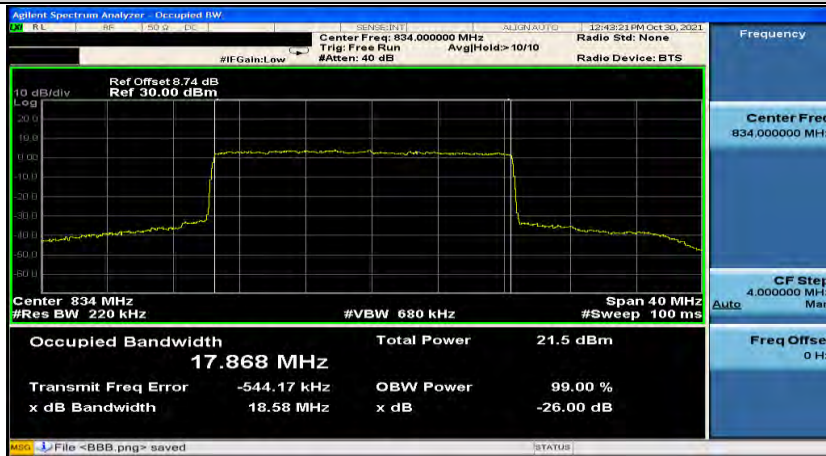
n5-20MHz-SCS 15kHz-DFT-s 16QAM-167300-100RB#0



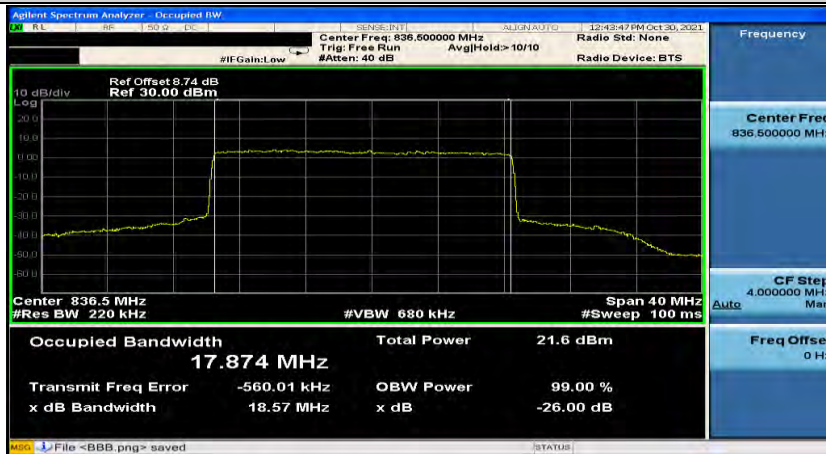
n5-20MHz-SCS 15kHz-DFT-s 16QAM-167800-100RB#0



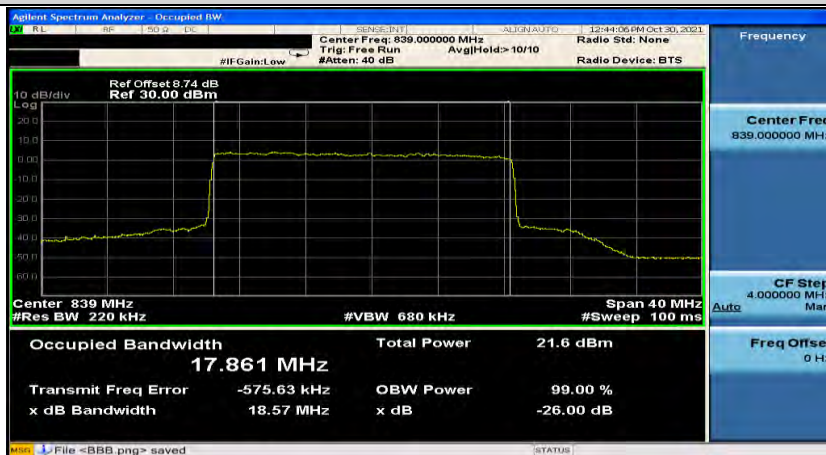
n5-20MHz-SCS 15kHz-DFT-s 64QAM-166800-100RB#0



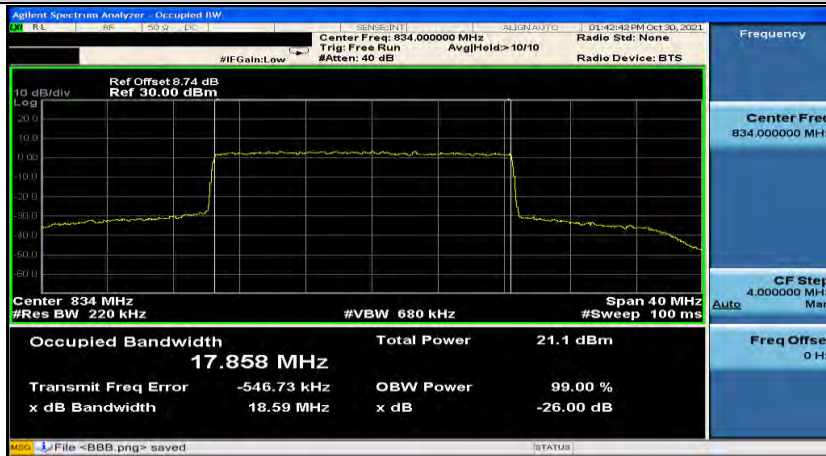
n5-20MHz-SCS 15kHz-DFT-s 64QAM-167300-100RB#0



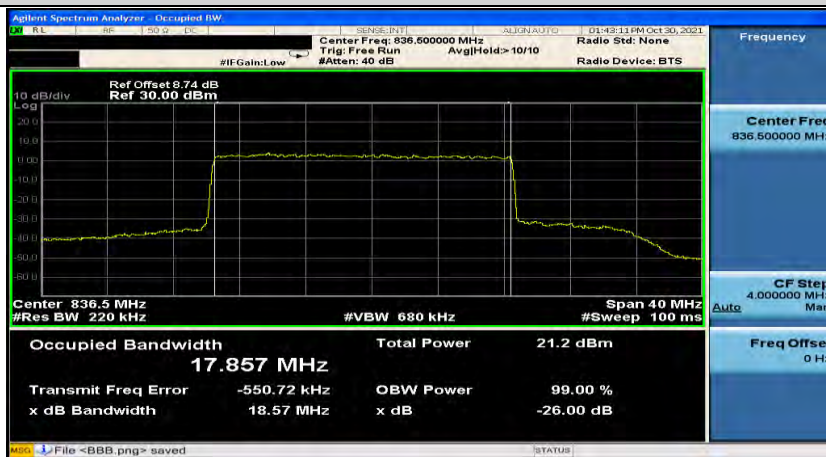
n5-20MHz-SCS 15kHz-DFT-s 64QAM-167800-100RB#0



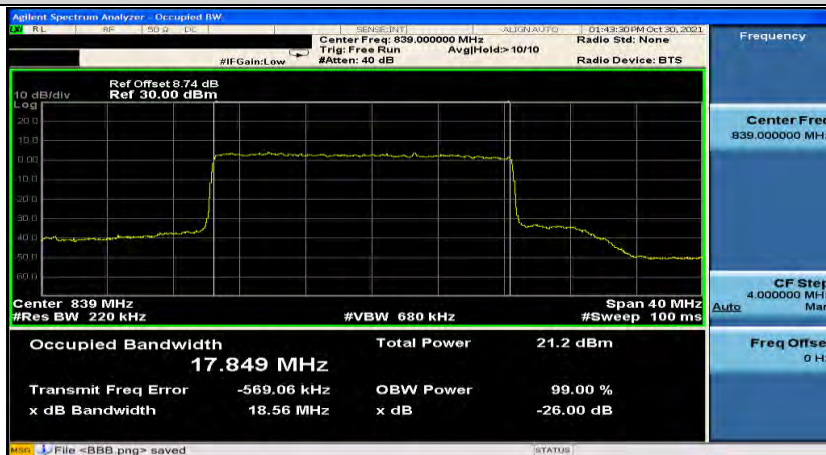
n5-20MHz-SCS 15kHz-DFT-s 256QAM-166800-100RB#0



n5-20MHz-SCS 15kHz-DFT-s 256QAM-167300-100RB#0



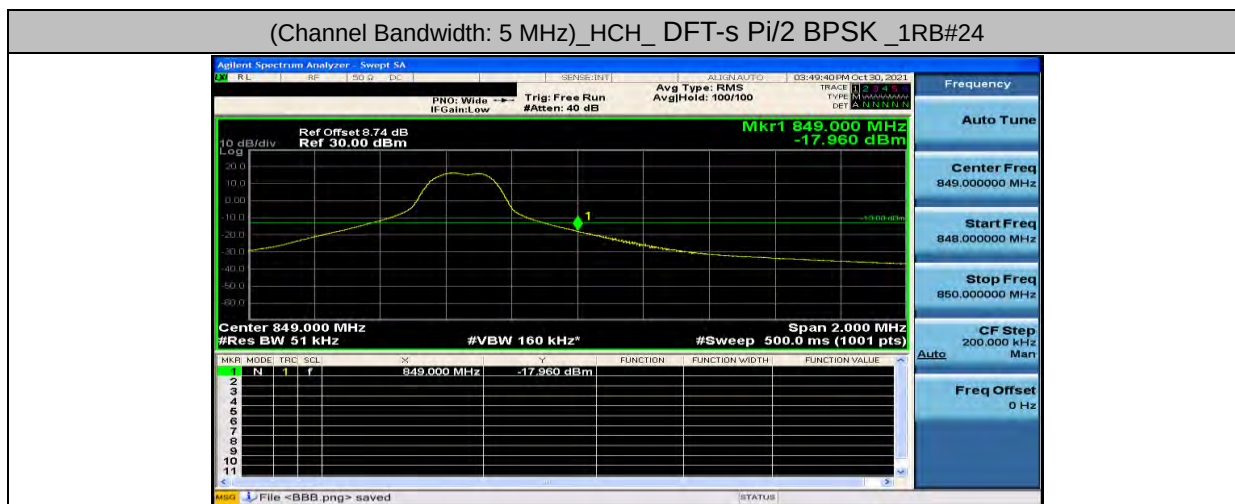
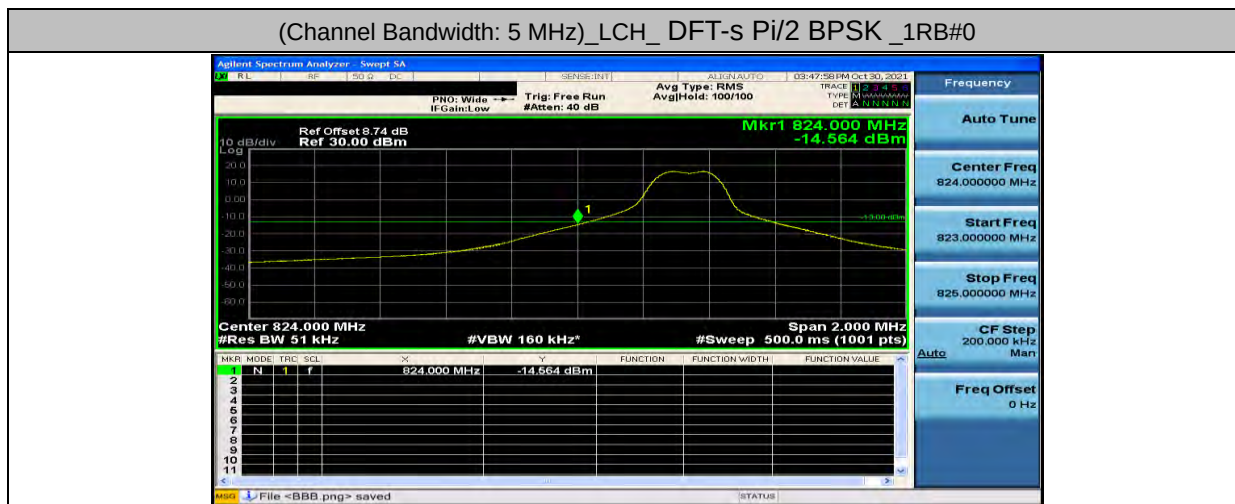
n5-20MHz-SCS 15kHz-DFT-s 256QAM-167800-100RB#0



4. Band Edge

Test Graphs

Channel Bandwidth: 5 MHz



(Channel Bandwidth: 5 MHz)_LCH_ DFT-s Pi/2 BPSK _25RB#0

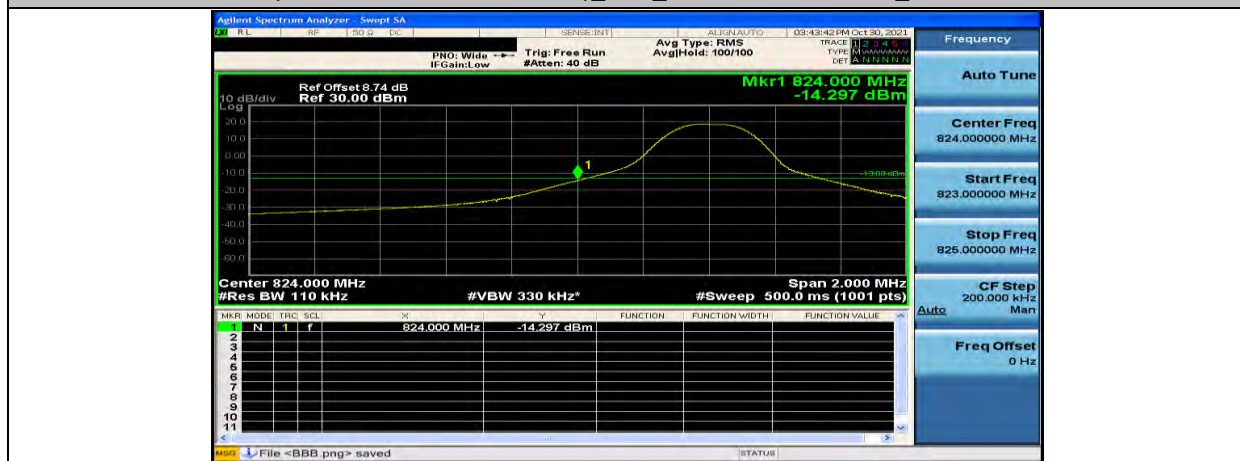


(Channel Bandwidth: 5 MHz)_HCH_ DFT-s Pi/2 BPSK _25RB#0



Channel Bandwidth: 10 MHz

(Channel Bandwidth: 10 MHz)_LCH_ DFT-s Pi/2 BPSK_1RB#0

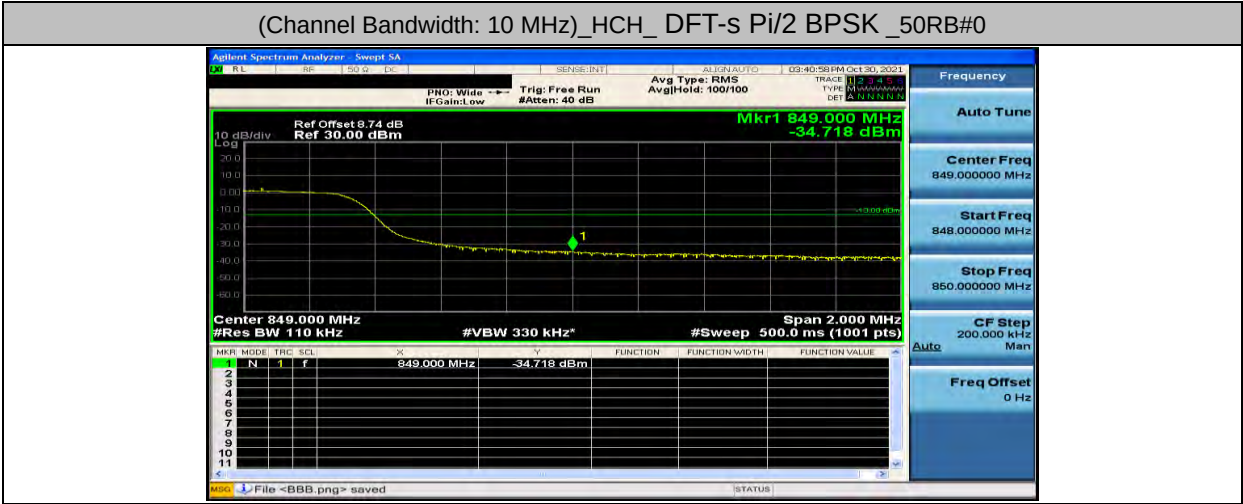


(Channel Bandwidth: 10 MHz)_HCH_ DFT-s Pi/2 BPSK_1RB#51

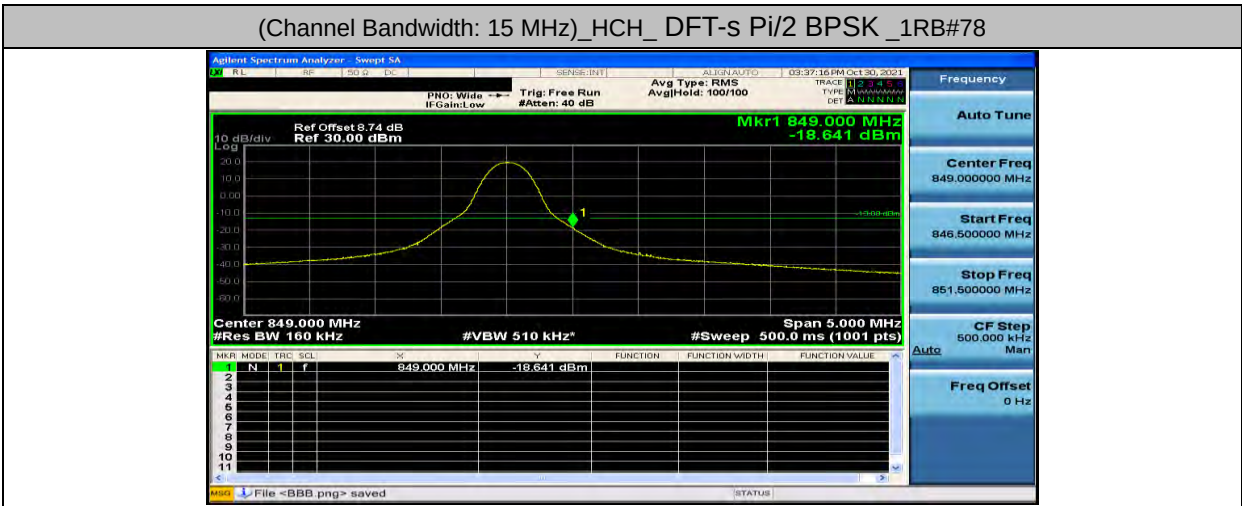
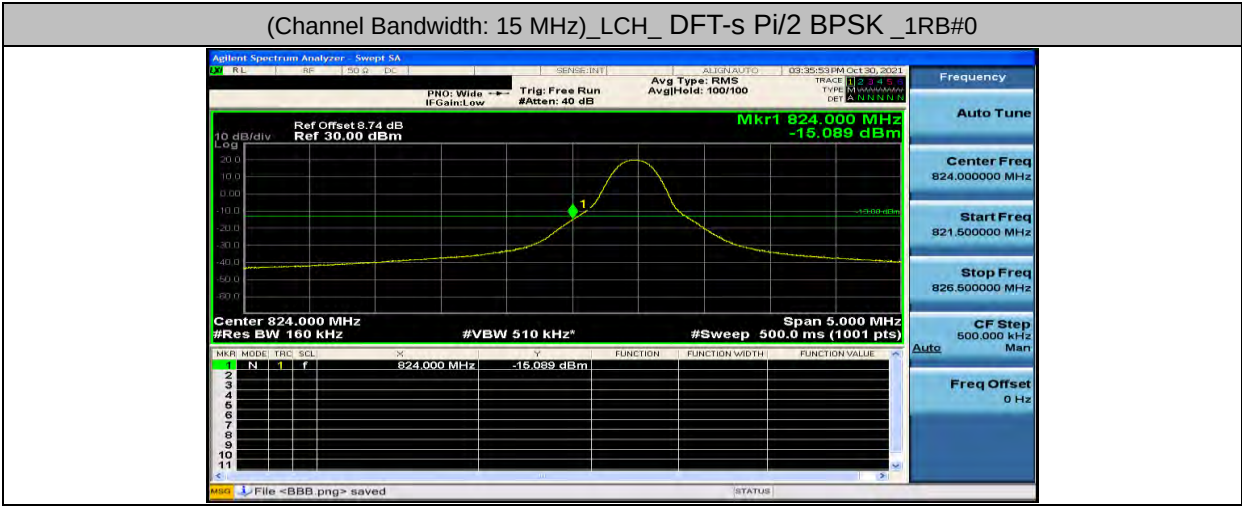


(Channel Bandwidth: 10 MHz)_LCH_ DFT-s Pi/2 BPSK_50RB#0





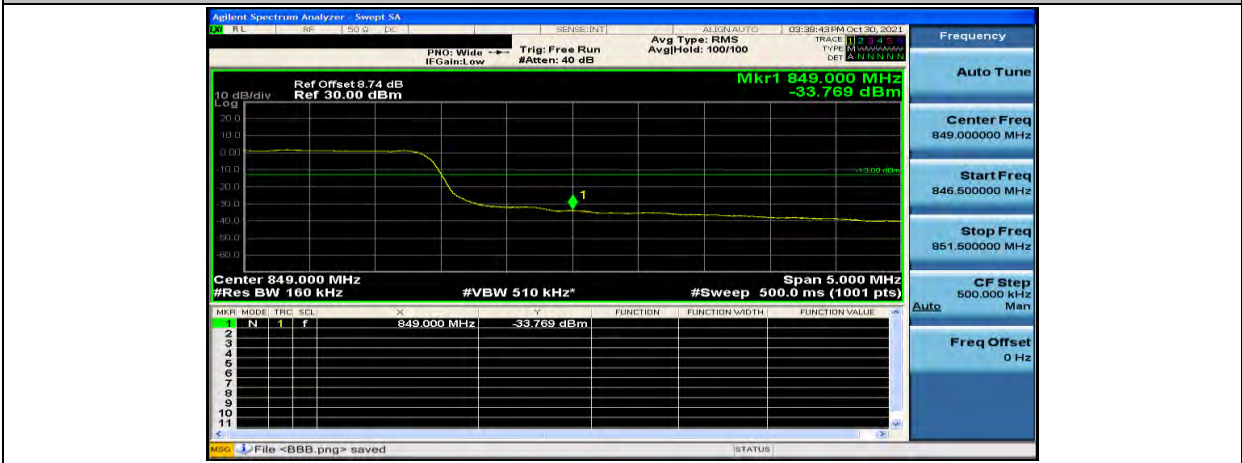
Channel Bandwidth: 15 MHz



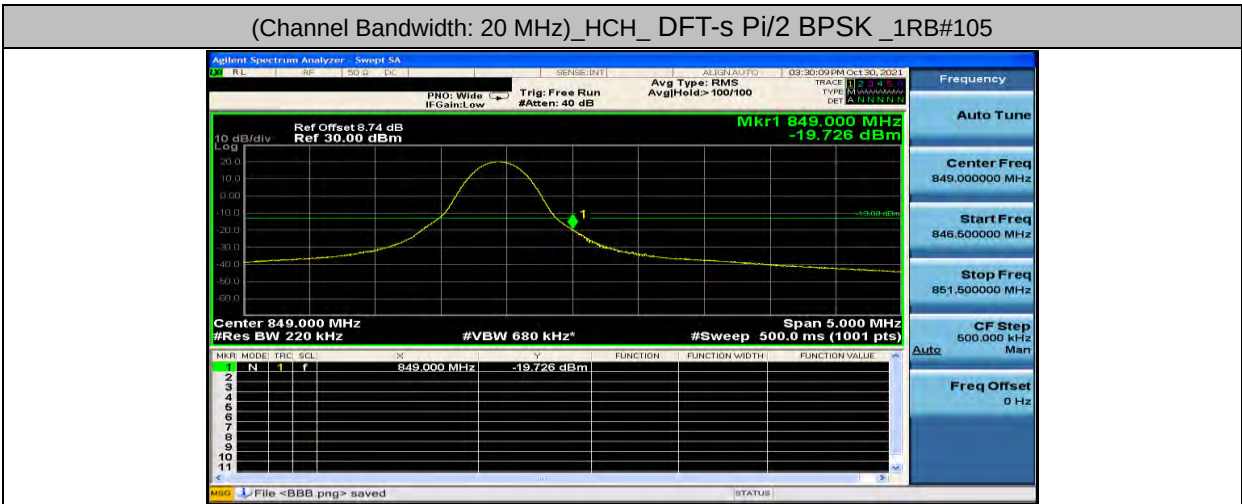
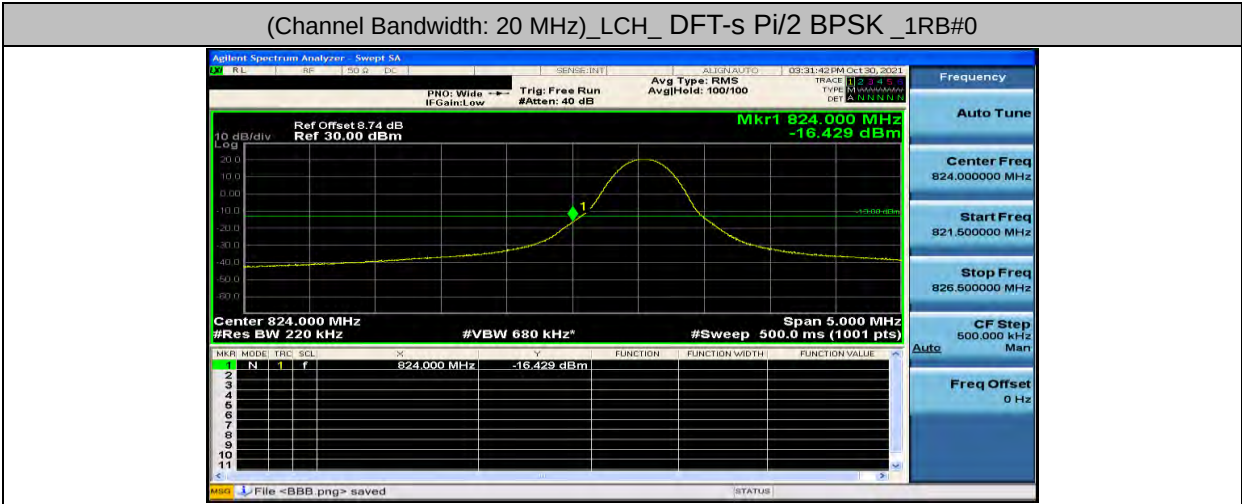
(Channel Bandwidth: 15 MHz)_LCH_ DFT-s Pi/2 BPSK _75RB#0



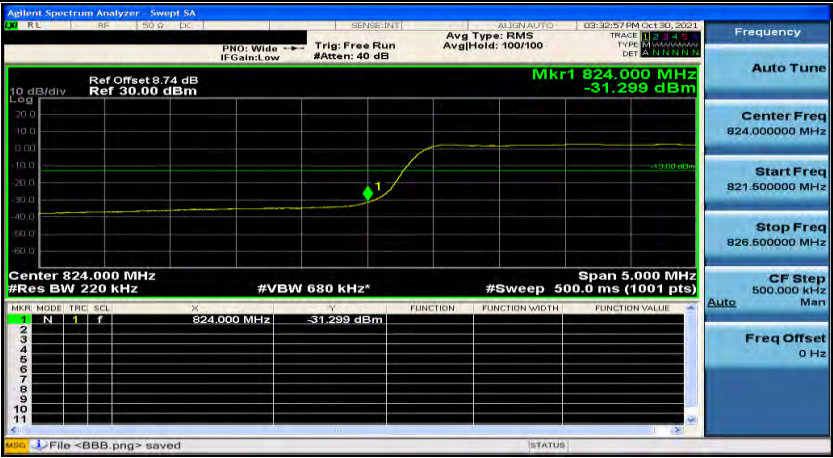
(Channel Bandwidth: 15 MHz)_HCH_ DFT-s Pi/2 BPSK _75RB#0



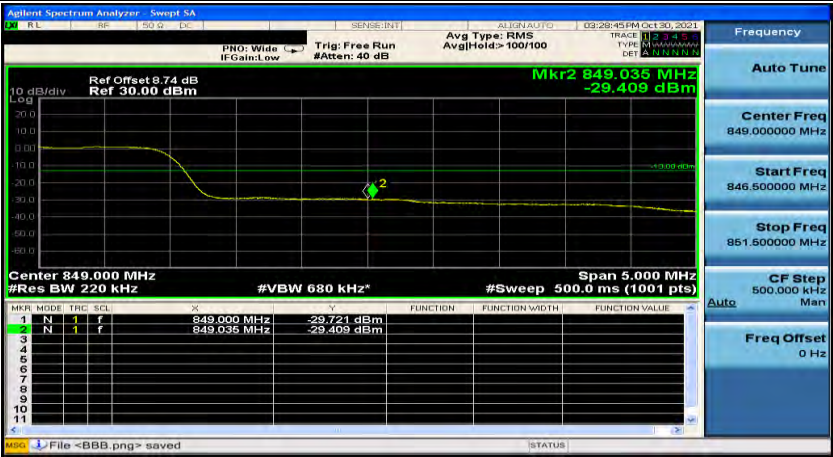
Channel Bandwidth: 20 MHz



(Channel Bandwidth: 20 MHz)_LCH_ DFT-s Pi/2 BPSK _100RB#0



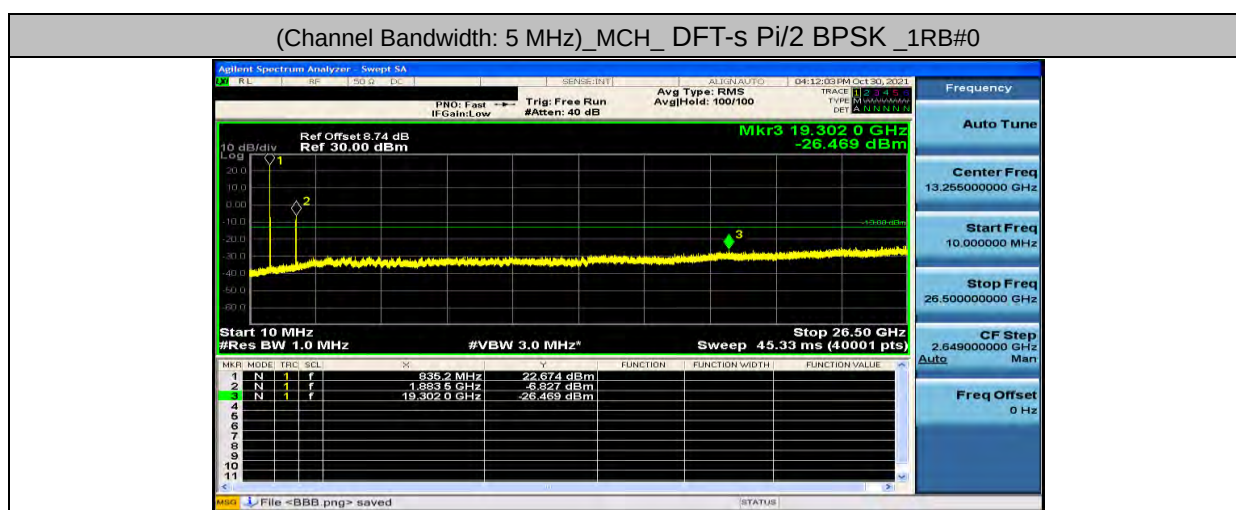
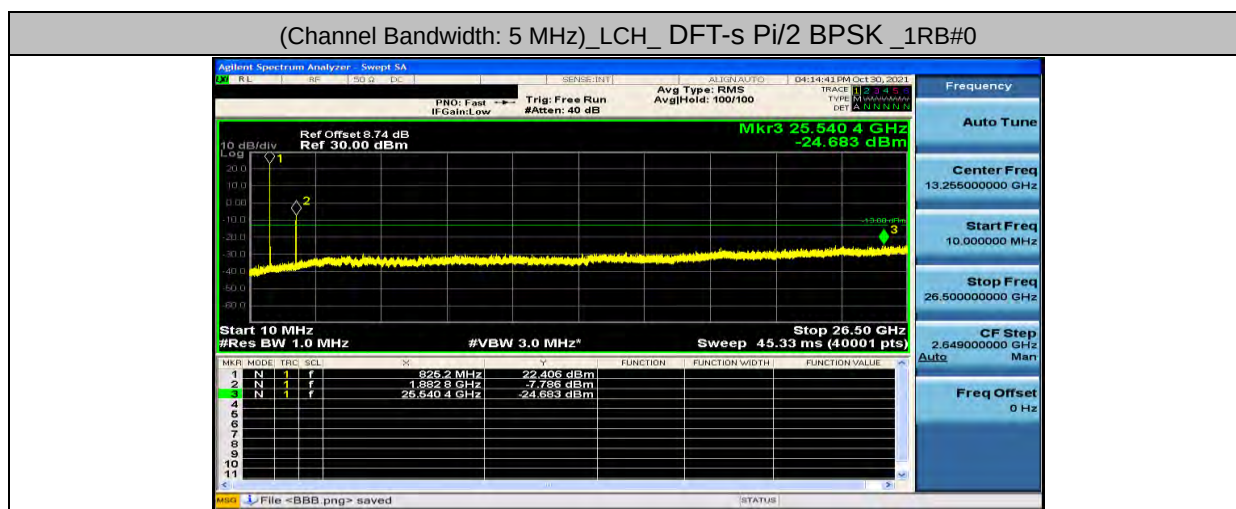
(Channel Bandwidth: 20 MHz)_HCH_ DFT-s Pi/2 BPSK _100RB#0

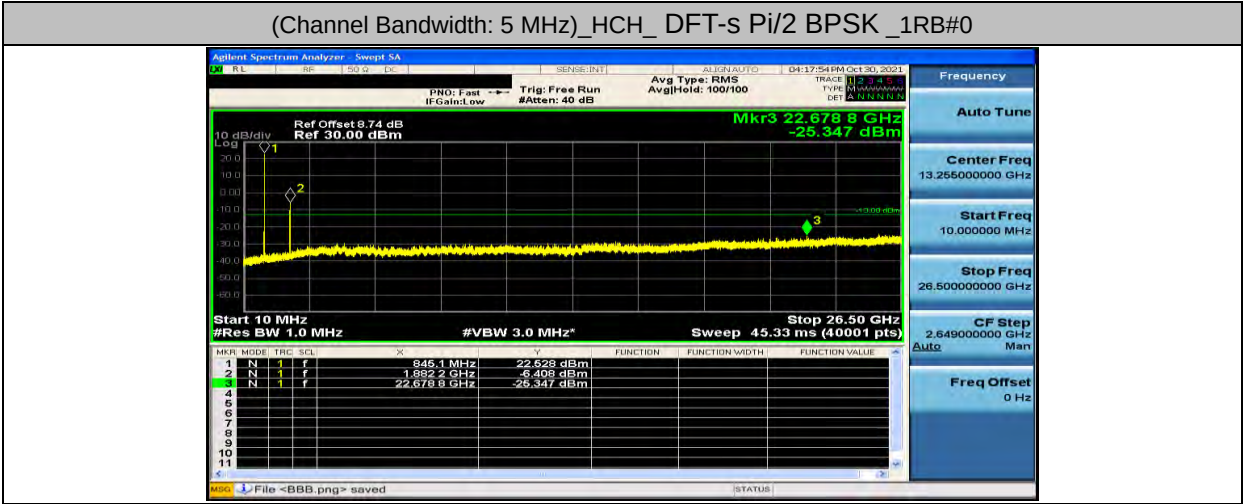


5. Conducted Spurious Emission

Test Graphs

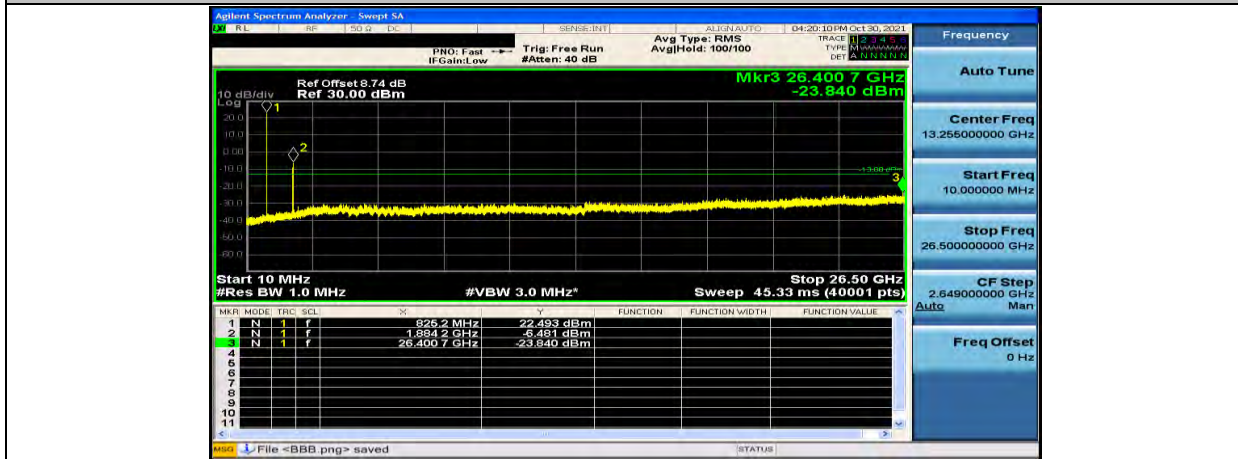
Channel Bandwidth: 5 MHz



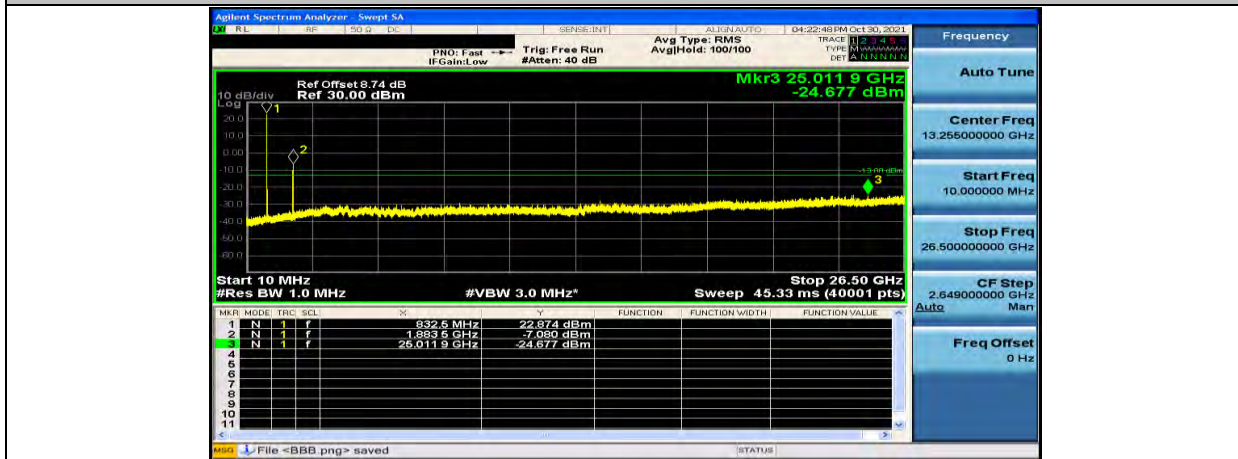


Channel Bandwidth: 10 MHz

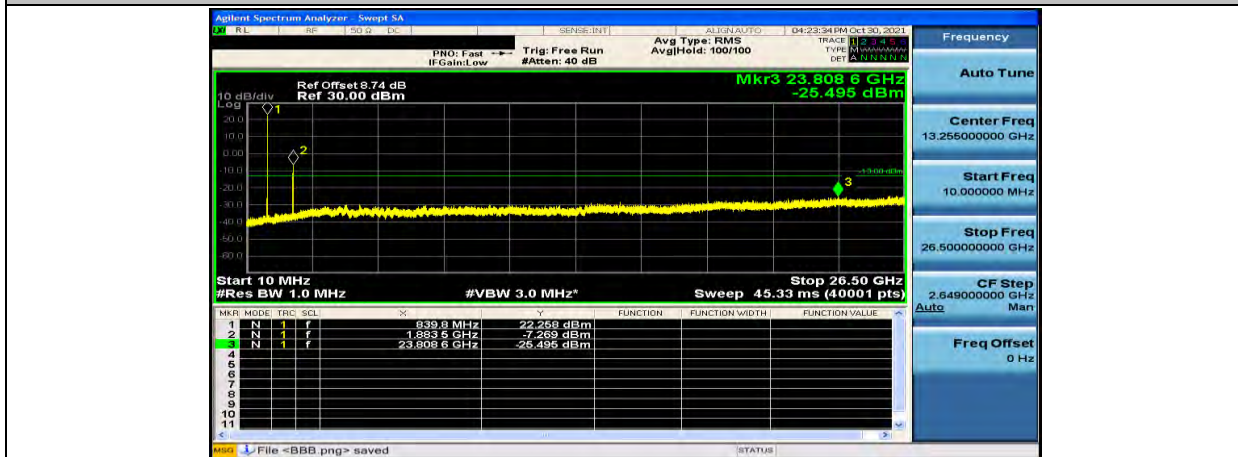
(Channel Bandwidth: 10 MHz)_LCH_ DFT-s Pi/2 BPSK_1RB#0



(Channel Bandwidth: 10 MHz)_MCH_ DFT-s Pi/2 BPSK_1RB#0

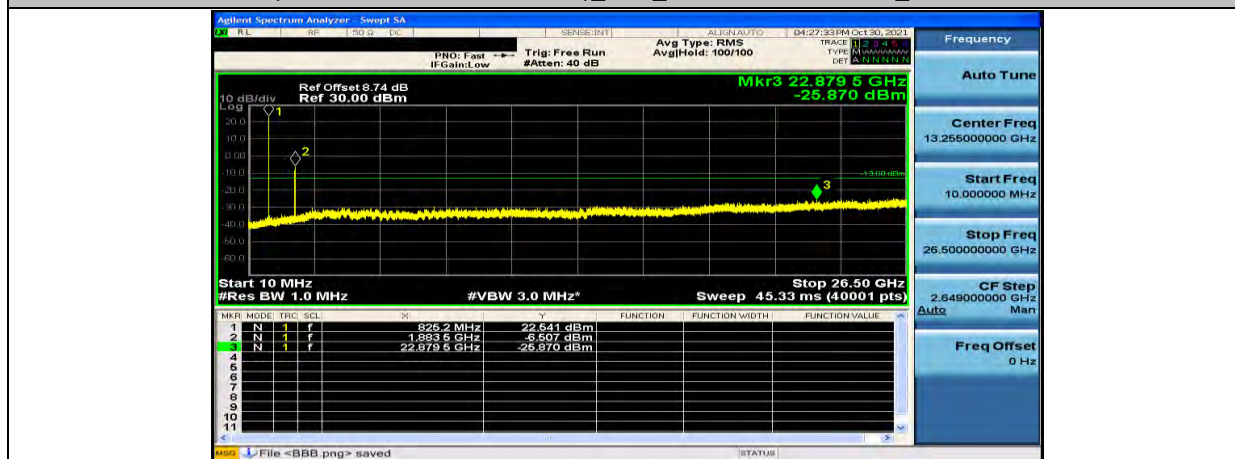


(Channel Bandwidth: 10 MHz)_HCH_ DFT-s Pi/2 BPSK_1RB#0

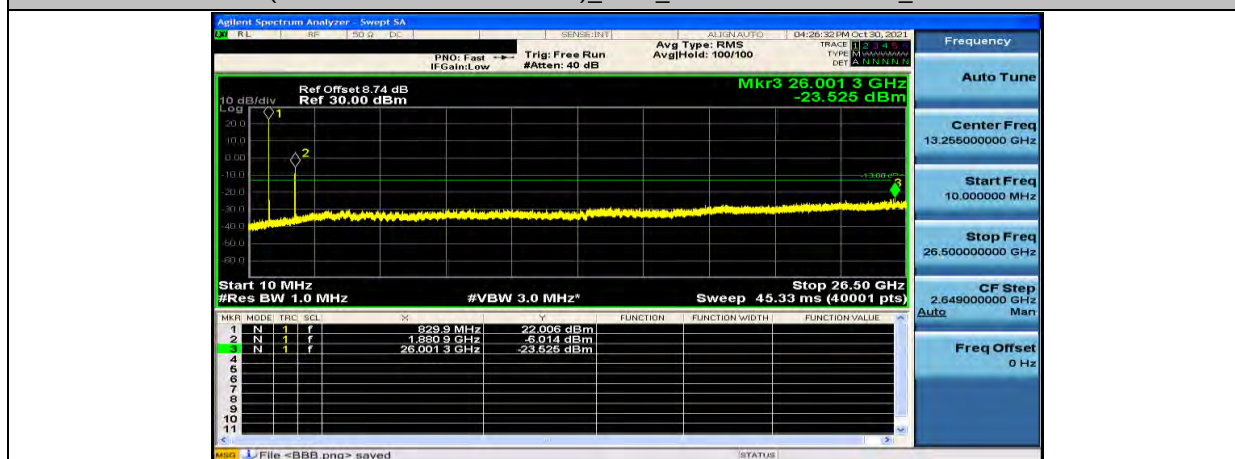


Channel Bandwidth: 15 MHz

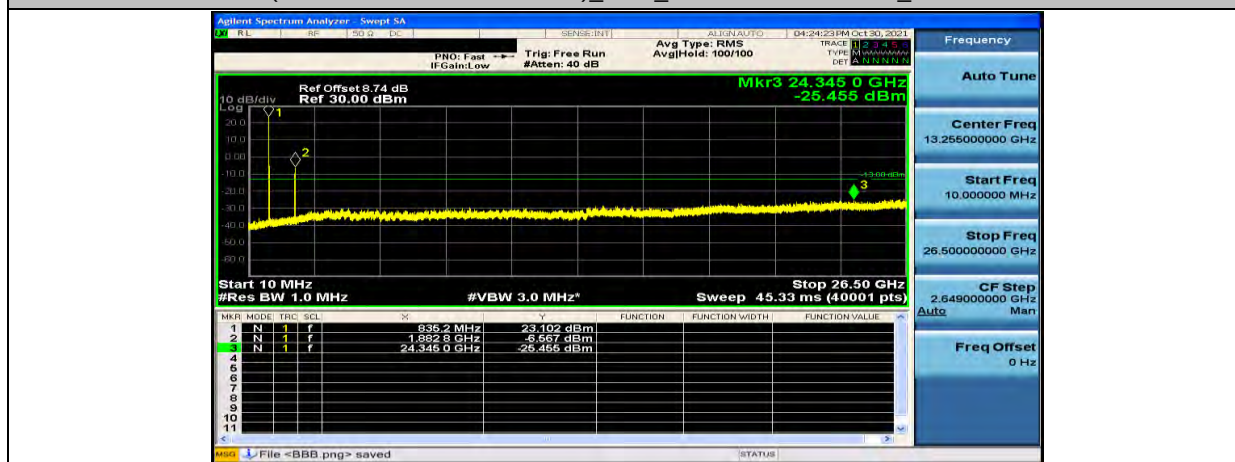
(Channel Bandwidth: 15 MHz)_LCH_ DFT-s Pi/2 BPSK_1RB#0



(Channel Bandwidth: 15 MHz)_MCH_ DFT-s Pi/2 BPSK_1RB#0

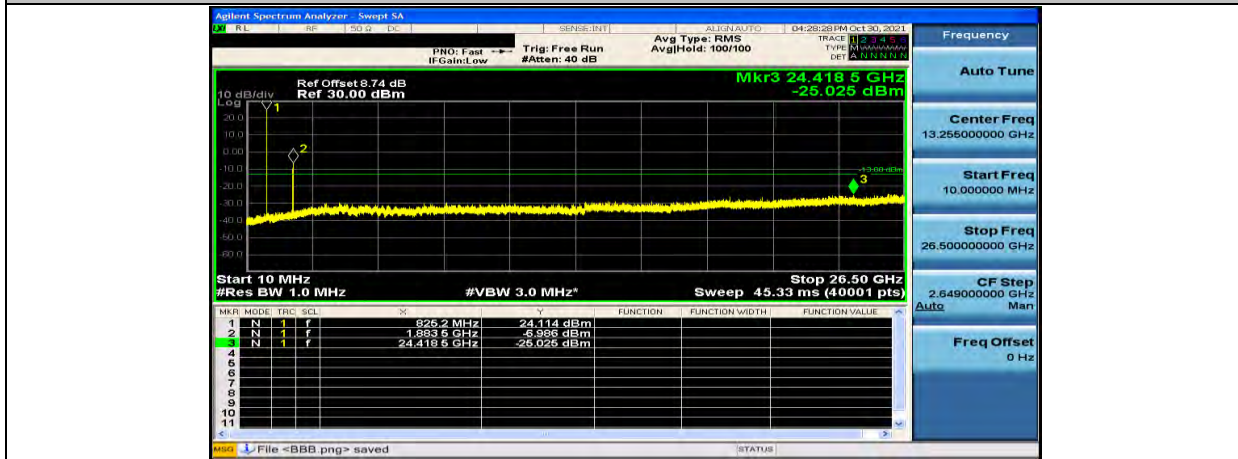


(Channel Bandwidth: 15 MHz)_HCH_ DFT-s Pi/2 BPSK_1RB#0

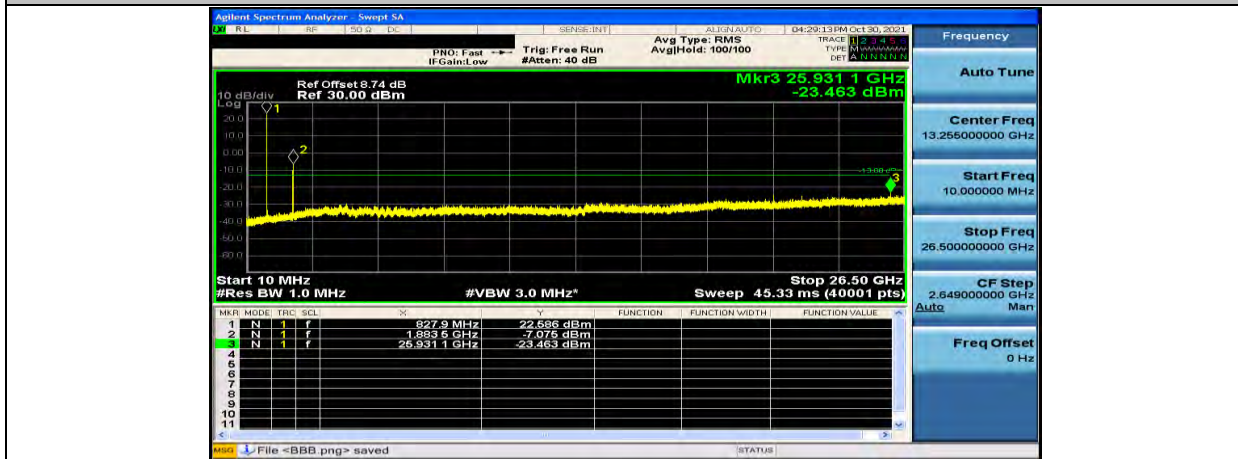


Channel Bandwidth: 20 MHz

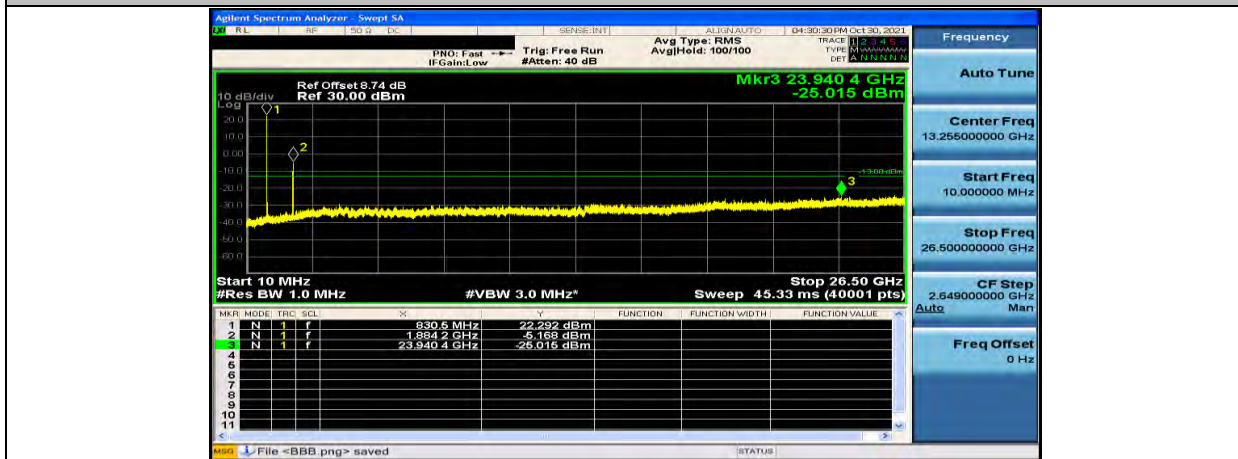
(Channel Bandwidth: 20 MHz)_LCH_ DFT-s Pi/2 BPSK_1RB#0



(Channel Bandwidth: 20 MHz)_MCH_ DFT-s Pi/2 BPSK_1RB#0



(Channel Bandwidth: 20 MHz)_HCH_ DFT-s Pi/2 BPSK_1RB#0



6. Frequency Stability

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [AC]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
DFT-S PI/2 BPSK	LCH	VL	TN	2.20	0.001285	± 2.5	PASS
		VN	TN	0.60	0.000350	± 2.5	PASS
		VH	TN	2.40	0.001401	± 2.5	PASS
	MCH	VL	TN	-0.50	-0.000286	± 2.5	PASS
		VN	TN	0.20	0.000114	± 2.5	PASS
		VH	TN	-0.50	-0.000286	± 2.5	PASS
	HCH	VL	TN	-1.40	-0.000785	± 2.5	PASS
		VN	TN	0.90	0.000505	± 2.5	PASS
		VH	TN	-0.70	-0.000393	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [AC]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
DFT-S PI/2 BPSK	LCH	VN	-30	4.70	0.002745	± 2.5	PASS
		VN	-20	0.70	0.000409	± 2.5	PASS
		VN	-10	3.00	0.001752	± 2.5	PASS
		VN	0	2.50	0.001460	± 2.5	PASS
		VN	10	2.00	0.001168	± 2.5	PASS
		VN	20	0.50	0.000292	± 2.5	PASS
		VN	30	2.70	0.001577	± 2.5	PASS
		VN	40	4.20	0.002453	± 2.5	PASS
		VN	50	-0.30	-0.000175	± 2.5	PASS
	MCH	VN	-30	-0.70	-0.000401	± 2.5	PASS
		VN	-20	0.60	0.000343	± 2.5	PASS
		VN	-10	-0.50	-0.000286	± 2.5	PASS
		VN	0	-2.20	-0.001259	± 2.5	PASS
		VN	10	-2.80	-0.001602	± 2.5	PASS
		VN	20	-2.50	-0.001431	± 2.5	PASS
		VN	30	-3.80	-0.002175	± 2.5	PASS
		VN	40	-0.80	-0.000458	± 2.5	PASS
		VN	50	-2.60	-0.001488	± 2.5	PASS
	HCH	VN	-30	2.10	0.001178	± 2.5	PASS
		VN	-20	0.80	0.000449	± 2.5	PASS
		VN	-10	1.20	0.000673	± 2.5	PASS
		VN	0	-0.60	-0.000337	± 2.5	PASS
		VN	10	-0.60	-0.000337	± 2.5	PASS
		VN	20	0.60	0.000337	± 2.5	PASS
		VN	30	-2.00	-0.001122	± 2.5	PASS
		VN	40	1.70	0.000954	± 2.5	PASS
		VN	50	-0.40	-0.000224	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [AC]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
DFT-S PI/2 BPSK	LCH	VL	TN	-0.80	-0.000466	± 2.5	PASS
		VN	TN	-0.40	-0.000233	± 2.5	PASS
		VH	TN	-0.70	-0.000408	± 2.5	PASS
	MCH	VL	TN	-0.70	-0.000401	± 2.5	PASS
		VN	TN	0.10	0.000057	± 2.5	PASS
		VH	TN	-0.90	-0.000515	± 2.5	PASS
	HCH	VL	TN	1.40	0.000787	± 2.5	PASS
		VN	TN	-2.40	-0.001348	± 2.5	PASS
		VH	TN	3.20	0.001798	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [AC]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
DFT-S PI/2 BPSK	LCH	VN	-30	-1.40	-0.000816	± 2.5	PASS
		VN	-20	-3.50	-0.002041	± 2.5	PASS
		VN	-10	-2.10	-0.001224	± 2.5	PASS
		VN	0	-2.80	-0.001633	± 2.5	PASS
		VN	10	3.10	0.001808	± 2.5	PASS
		VN	20	-2.60	-0.001516	± 2.5	PASS
		VN	30	1.30	0.000758	± 2.5	PASS
		VN	40	-0.20	-0.000117	± 2.5	PASS
		VN	50	-0.80	-0.000466	± 2.5	PASS
	MCH	VN	-30	1.30	0.000744	± 2.5	PASS
		VN	-20	-2.20	-0.001259	± 2.5	PASS
		VN	-10	0.50	0.000286	± 2.5	PASS
		VN	0	-3.90	-0.002232	± 2.5	PASS
		VN	10	-0.20	-0.000114	± 2.5	PASS
		VN	20	-0.60	-0.000343	± 2.5	PASS
		VN	30	-1.20	-0.000687	± 2.5	PASS
		VN	40	2.00	0.001144	± 2.5	PASS
		VN	50	1.80	0.001030	± 2.5	PASS
	HCH	VN	-30	-0.30	-0.000169	± 2.5	PASS
		VN	-20	0.30	0.000169	± 2.5	PASS
		VN	-10	1.30	0.000730	± 2.5	PASS
		VN	0	-0.90	-0.000506	± 2.5	PASS
		VN	10	-0.90	-0.000506	± 2.5	PASS
		VN	20	1.10	0.000618	± 2.5	PASS
		VN	30	-2.50	-0.001404	± 2.5	PASS
		VN	40	-0.20	-0.000112	± 2.5	PASS
VN	50	0.40	0.000225	± 2.5	PASS		

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [AC]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
DFT-S PI/2 BPSK	LCH	VL	TN	2.40	0.001397	± 2.5	PASS
		VN	TN	1.60	0.000932	± 2.5	PASS
		VH	TN	2.40	0.001397	± 2.5	PASS
	MCH	VL	TN	-1.60	-0.000916	± 2.5	PASS
		VN	TN	0.30	0.000172	± 2.5	PASS
		VH	TN	-0.30	-0.000172	± 2.5	PASS
	HCH	VL	TN	4.90	0.002757	± 2.5	PASS
		VN	TN	5.20	0.002925	± 2.5	PASS
		VH	TN	5.50	0.003094	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [AC]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
DFT-S PI/2 BPSK	LCH	VN	-30	0.90	0.000524	± 2.5	PASS
		VN	-20	0.60	0.000349	± 2.5	PASS
		VN	-10	-0.60	-0.000349	± 2.5	PASS
		VN	0	-1.20	-0.000699	± 2.5	PASS
		VN	10	3.60	0.002096	± 2.5	PASS
		VN	20	1.30	0.000757	± 2.5	PASS
		VN	30	1.90	0.001106	± 2.5	PASS
		VN	40	1.00	0.000582	± 2.5	PASS
		VN	50	3.60	0.002096	± 2.5	PASS
	MCH	VN	-30	1.80	0.001030	± 2.5	PASS
		VN	-20	-2.60	-0.001488	± 2.5	PASS
		VN	-10	-2.10	-0.001202	± 2.5	PASS
		VN	0	-1.00	-0.000572	± 2.5	PASS
		VN	10	0.70	0.000401	± 2.5	PASS
		VN	20	-1.20	-0.000687	± 2.5	PASS
		VN	30	0.60	0.000343	± 2.5	PASS
		VN	40	-0.10	-0.000057	± 2.5	PASS
		VN	50	-1.10	-0.000629	± 2.5	PASS
	HCH	VN	-30	5.20	0.002925	± 2.5	PASS
		VN	-20	1.30	0.000731	± 2.5	PASS
		VN	-10	2.80	0.001575	± 2.5	PASS
		VN	0	2.50	0.001406	± 2.5	PASS
		VN	10	2.40	0.001350	± 2.5	PASS
		VN	20	1.90	0.001069	± 2.5	PASS
		VN	30	4.30	0.002419	± 2.5	PASS
		VN	40	5.20	0.002925	± 2.5	PASS
		VN	50	4.10	0.002307	± 2.5	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [AC]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
DFT-S PI/2 BPSK	LCH	VL	TN	1.70	0.000988	± 2.5	PASS
		VN	TN	-2.10	-0.001221	± 2.5	PASS
		VH	TN	-1.70	-0.000988	± 2.5	PASS
	MCH	VL	TN	2.60	0.001488	± 2.5	PASS
		VN	TN	1.40	0.000801	± 2.5	PASS
		VH	TN	0.30	0.000172	± 2.5	PASS
	HCH	VL	TN	-3.10	-0.001746	± 2.5	PASS
		VN	TN	0.30	0.000169	± 2.5	PASS
		VH	TN	-1.20	-0.000676	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [AC]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
DFT-S PI/2 BPSK	LCH	VN	-30	1.20	0.000698	± 2.5	PASS
		VN	-20	1.50	0.000872	± 2.5	PASS
		VN	-10	0.50	0.000291	± 2.5	PASS
		VN	0	2.80	0.001628	± 2.5	PASS
		VN	10	-0.70	-0.000407	± 2.5	PASS
		VN	20	0.30	0.000174	± 2.5	PASS
		VN	30	0.20	0.000116	± 2.5	PASS
		VN	40	2.10	0.001221	± 2.5	PASS
		VN	50	2.60	0.001512	± 2.5	PASS
	MCH	VN	-30	-0.90	-0.000515	± 2.5	PASS
		VN	-20	3.10	0.001774	± 2.5	PASS
		VN	-10	1.70	0.000973	± 2.5	PASS
		VN	0	1.40	0.000801	± 2.5	PASS
		VN	10	1.50	0.000858	± 2.5	PASS
		VN	20	2.20	0.001259	± 2.5	PASS
		VN	30	1.10	0.000629	± 2.5	PASS
		VN	40	4.10	0.002346	± 2.5	PASS
		VN	50	2.40	0.001373	± 2.5	PASS
	HCH	VN	-30	3.30	0.001859	± 2.5	PASS
		VN	-20	-2.70	-0.001521	± 2.5	PASS
		VN	-10	-0.50	-0.000282	± 2.5	PASS
		VN	0	1.10	0.000620	± 2.5	PASS
		VN	10	1.20	0.000676	± 2.5	PASS
		VN	20	2.50	0.001408	± 2.5	PASS
		VN	30	0.40	0.000225	± 2.5	PASS
		VN	40	-2.30	-0.001296	± 2.5	PASS
VN	50	1.20	0.000676	± 2.5	PASS		