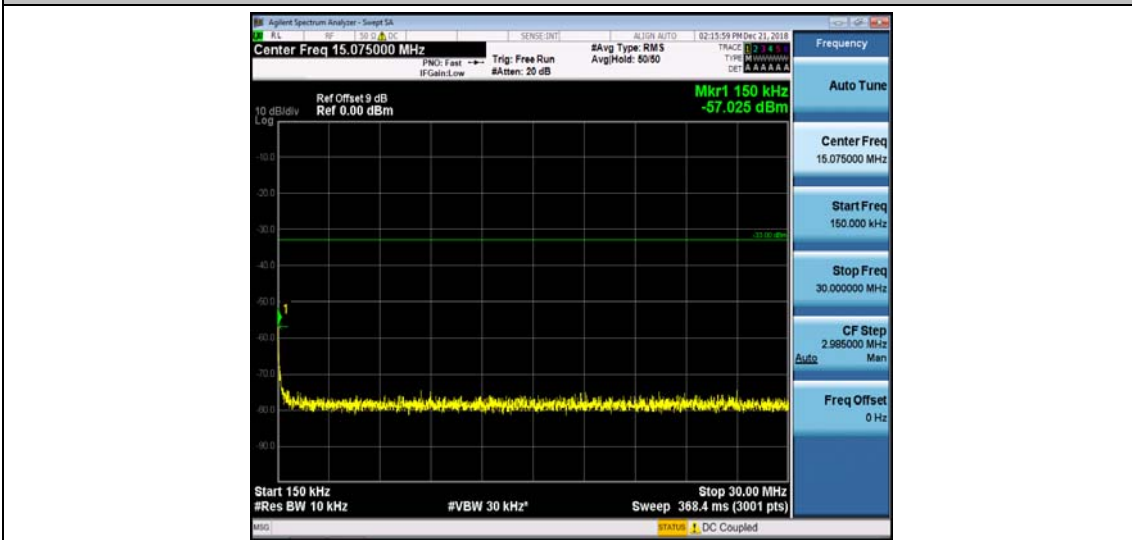




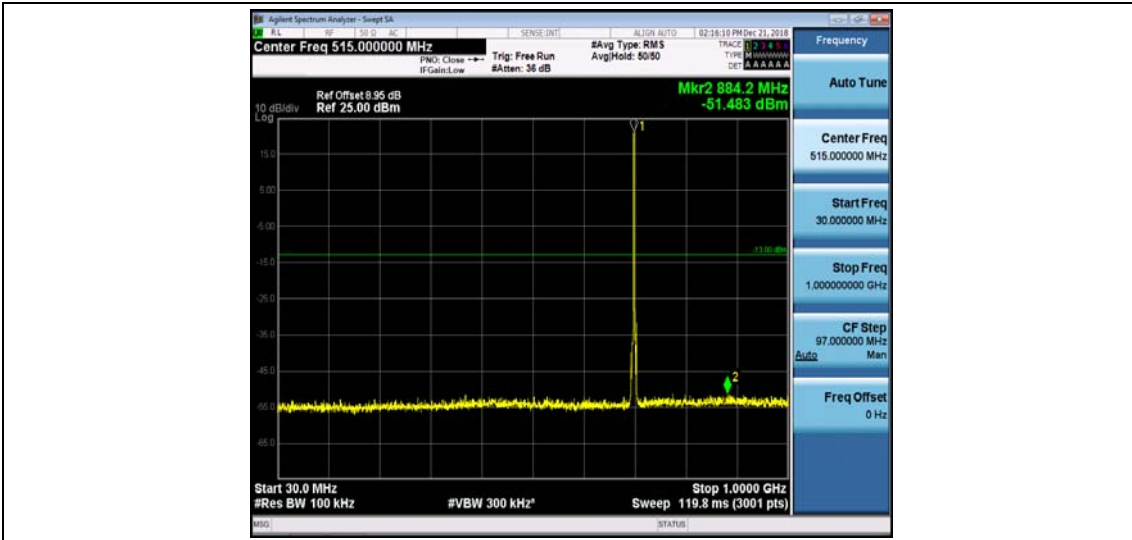
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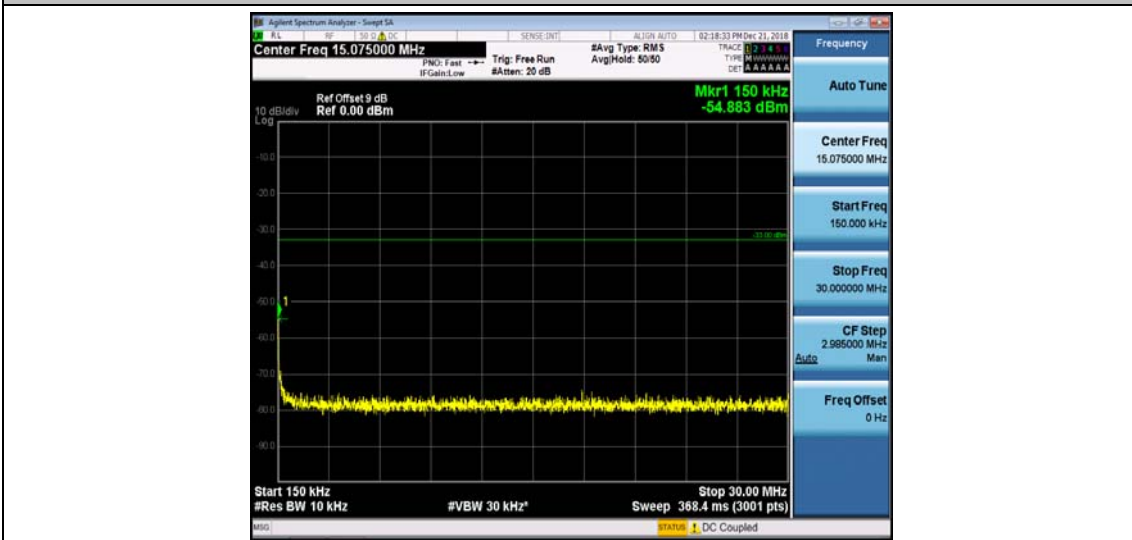
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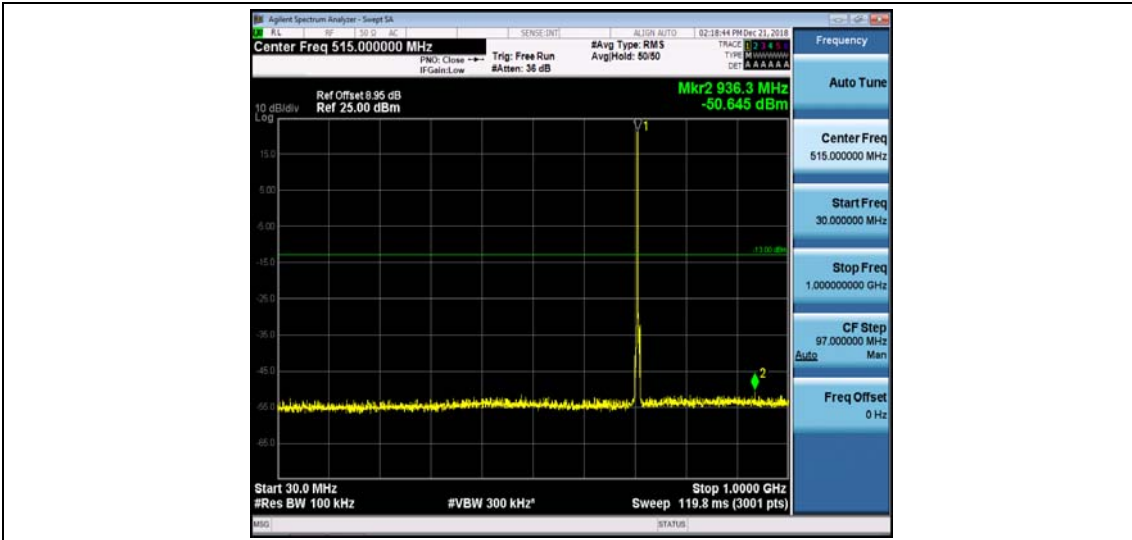
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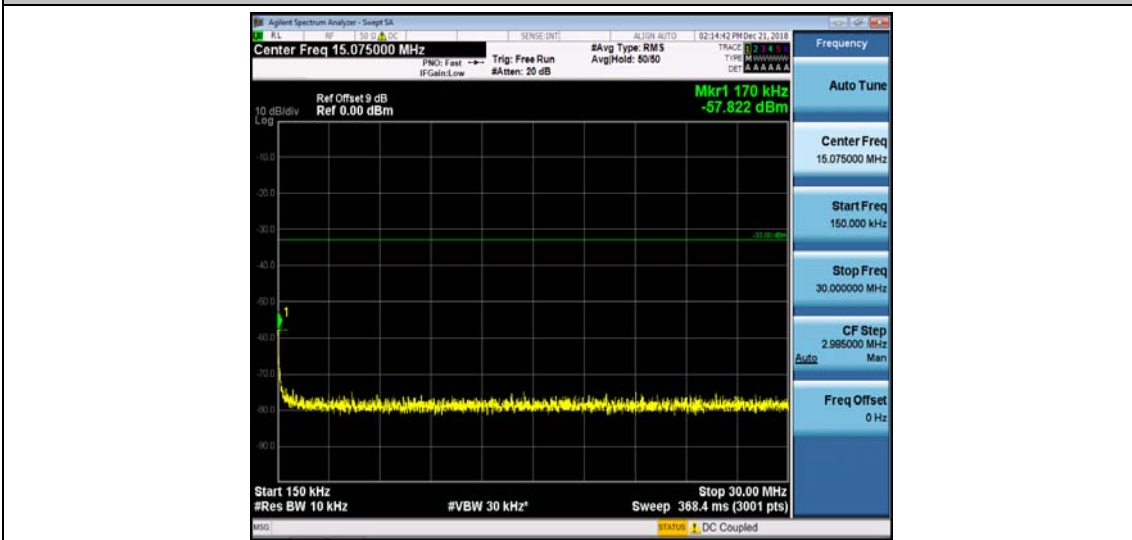
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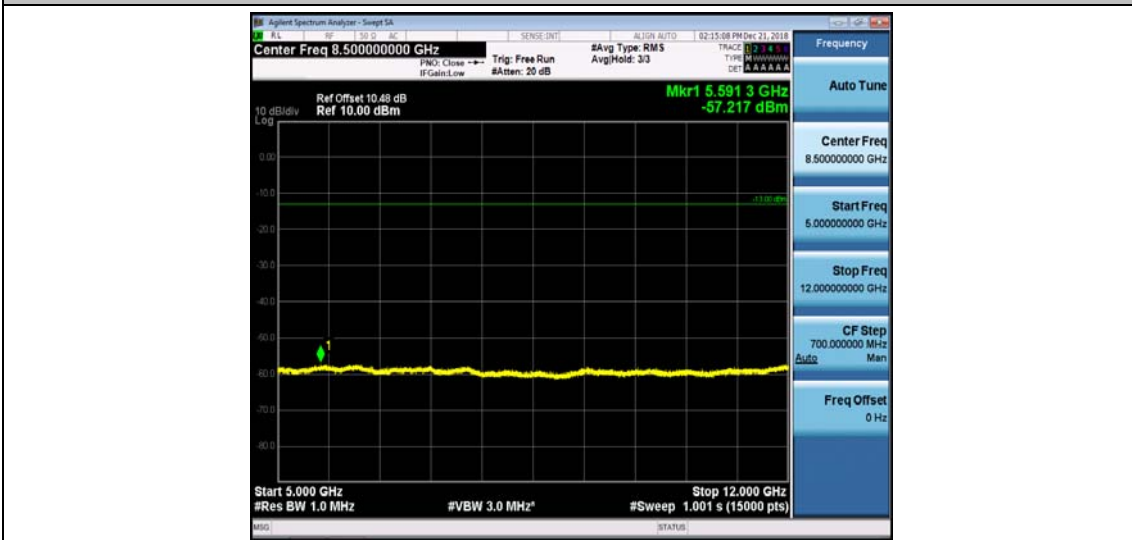
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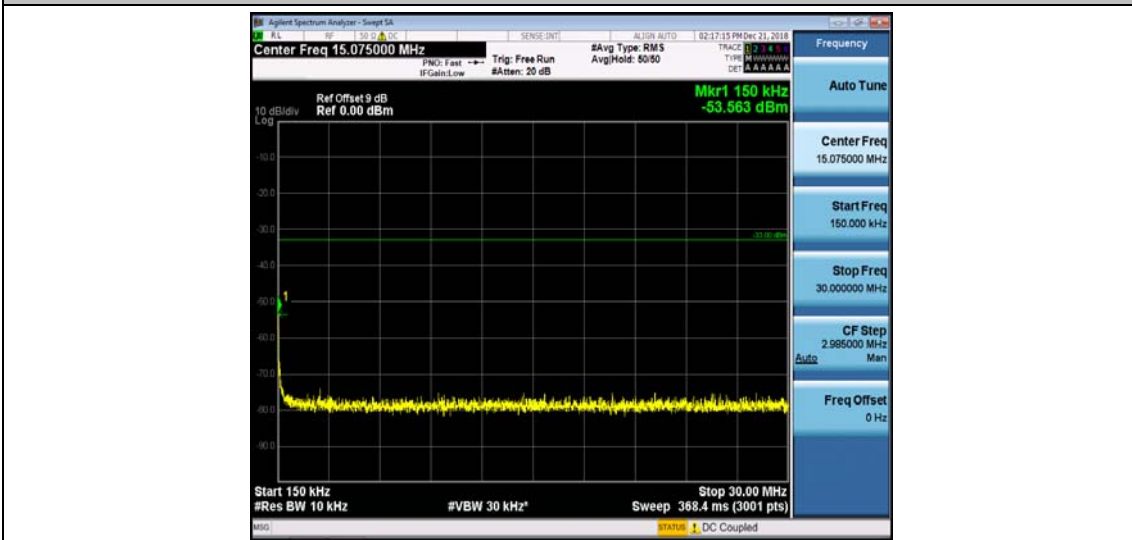
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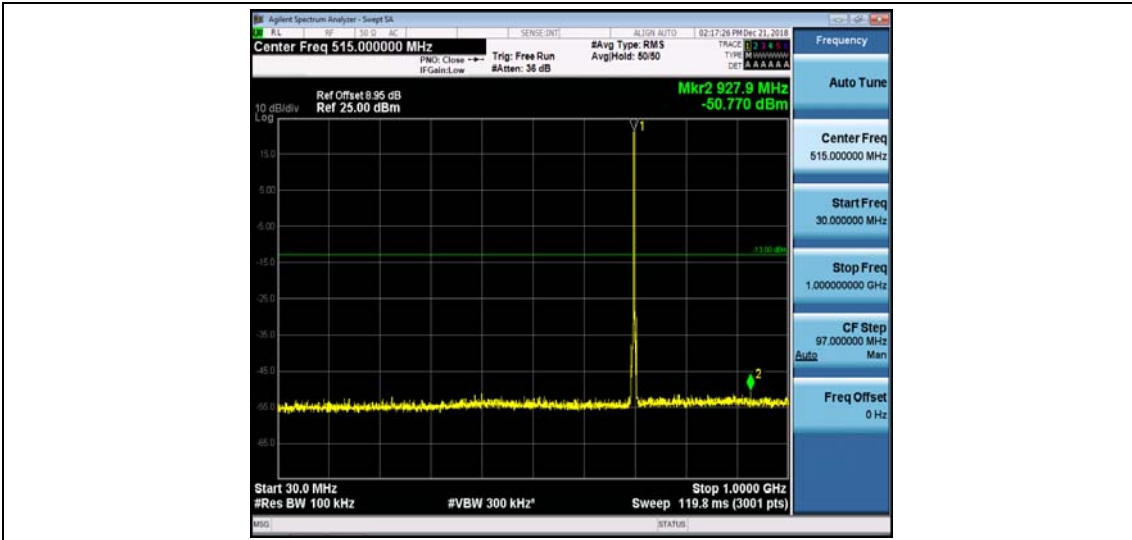
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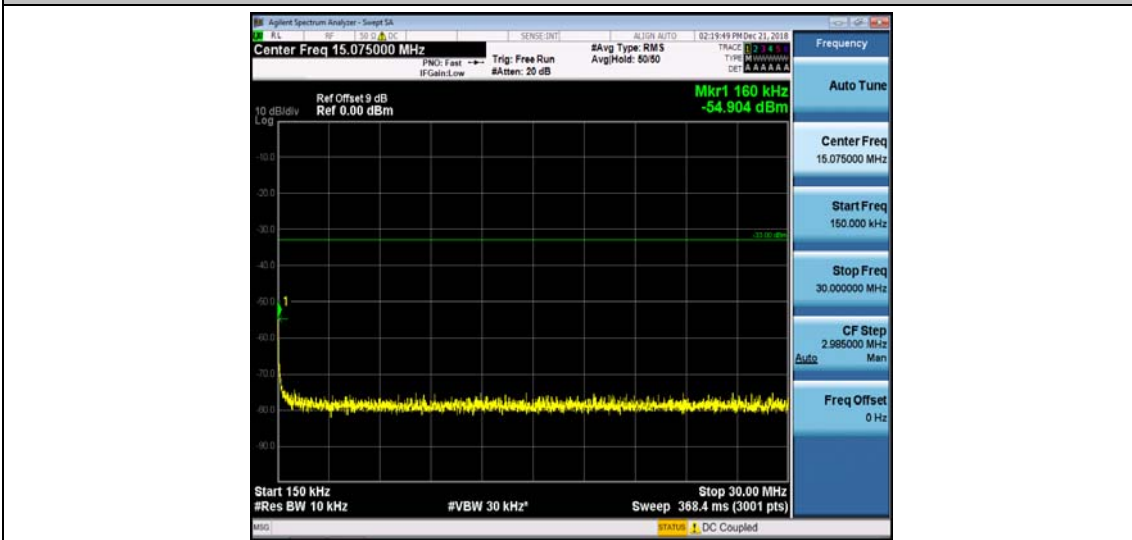
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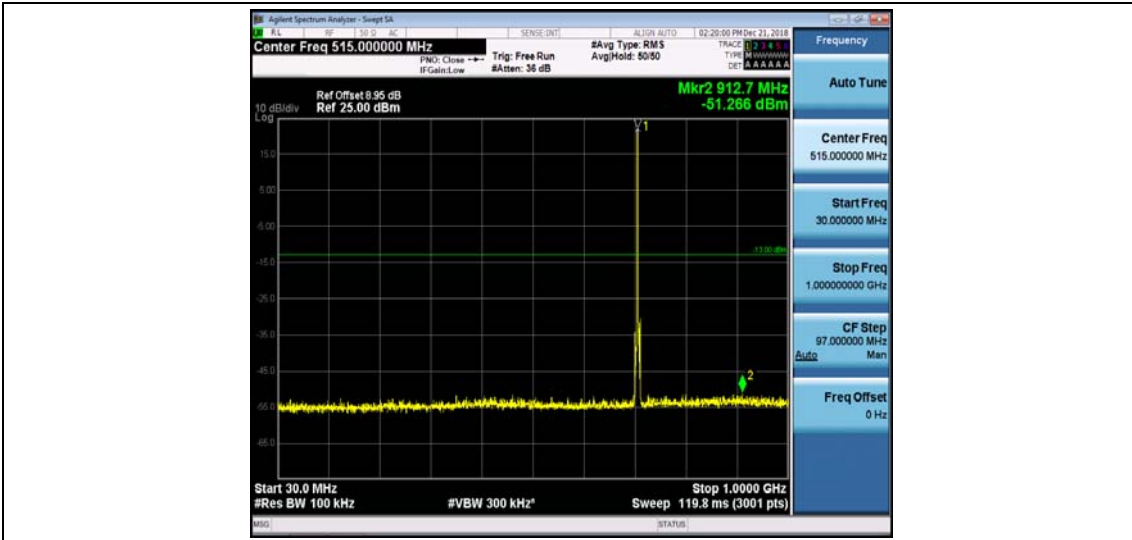
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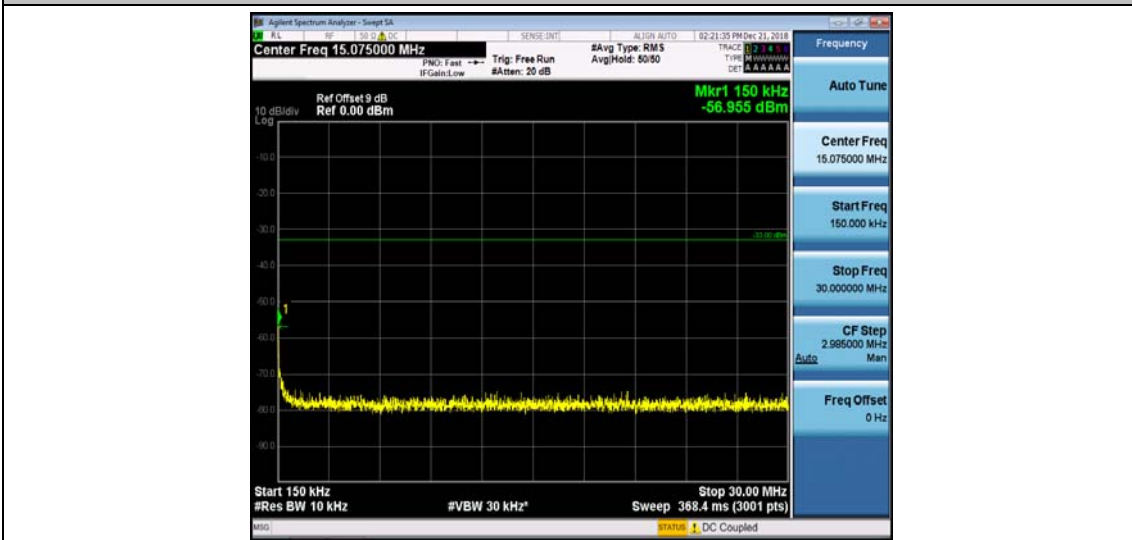
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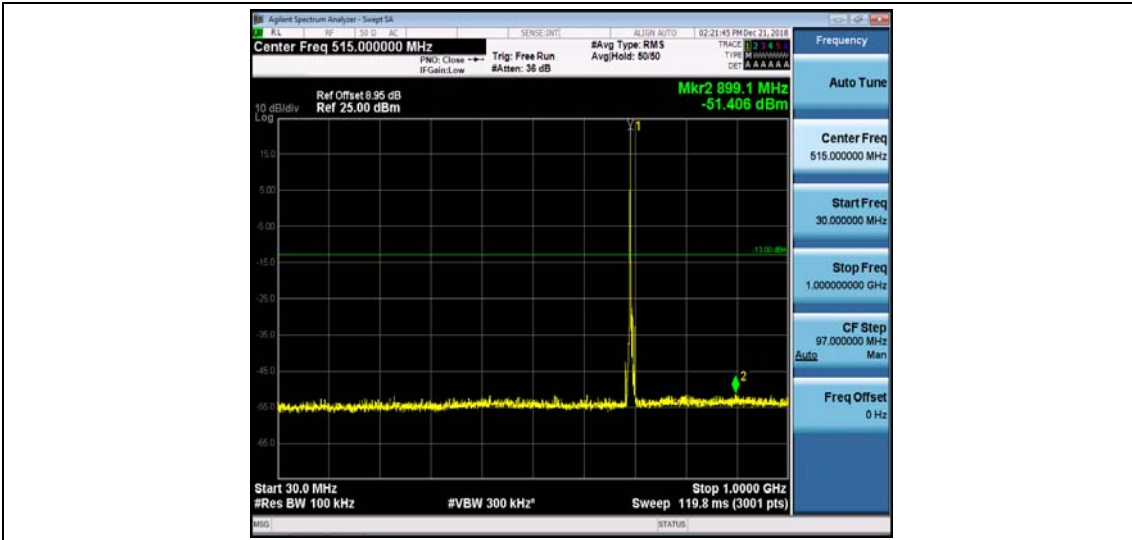
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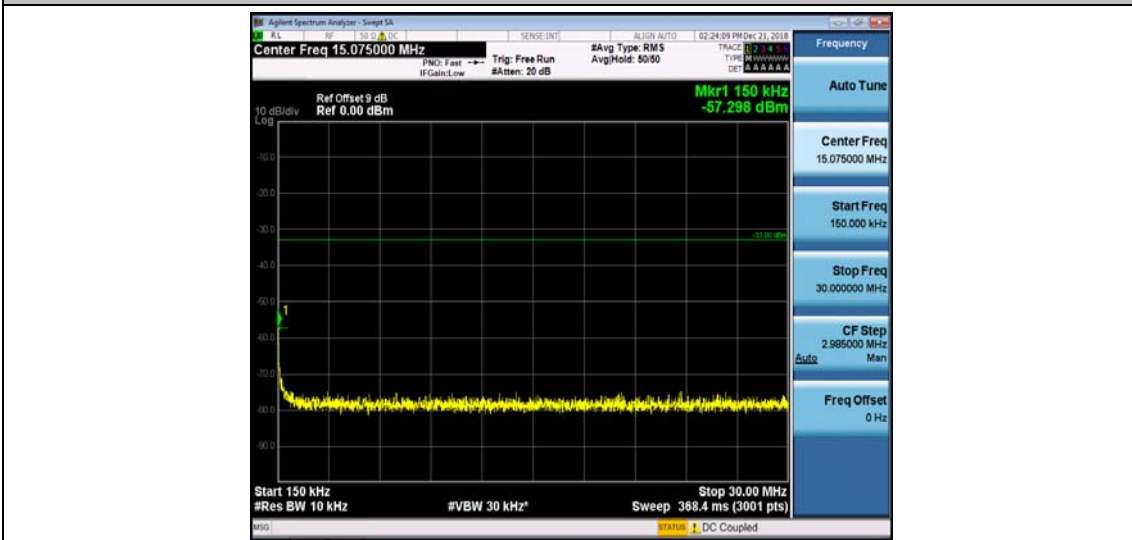
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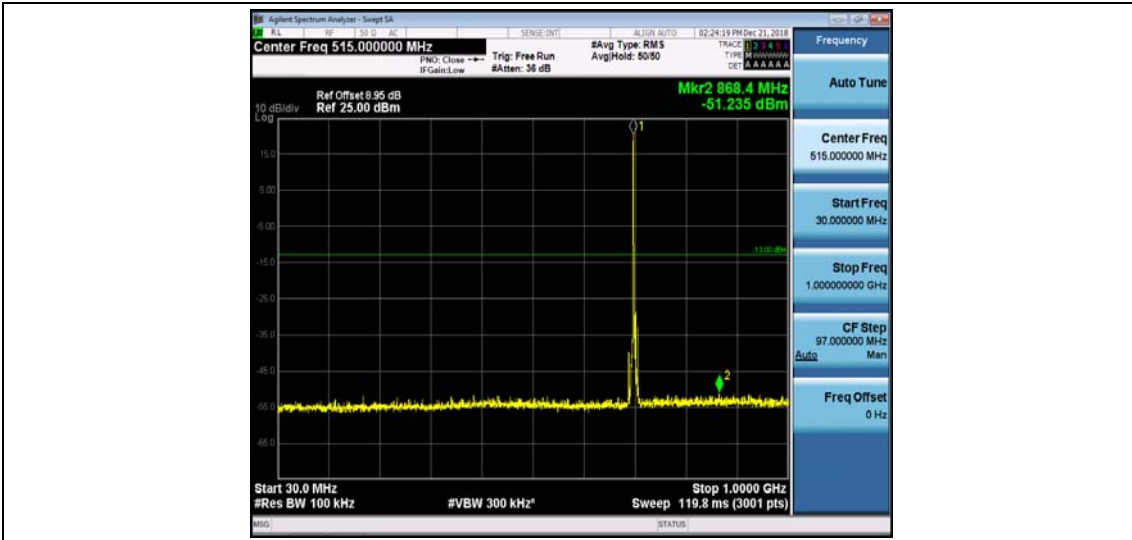
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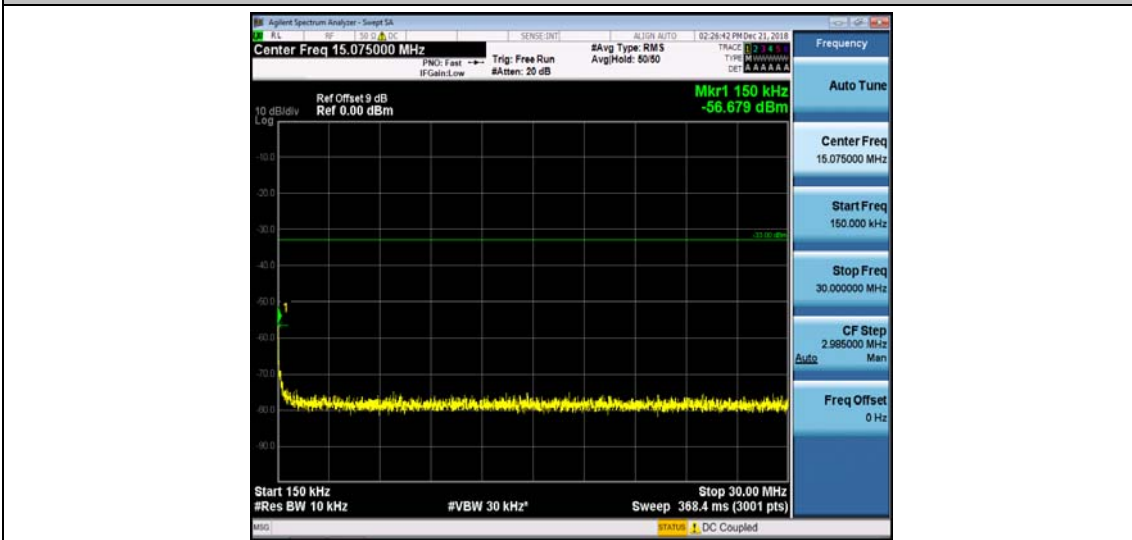
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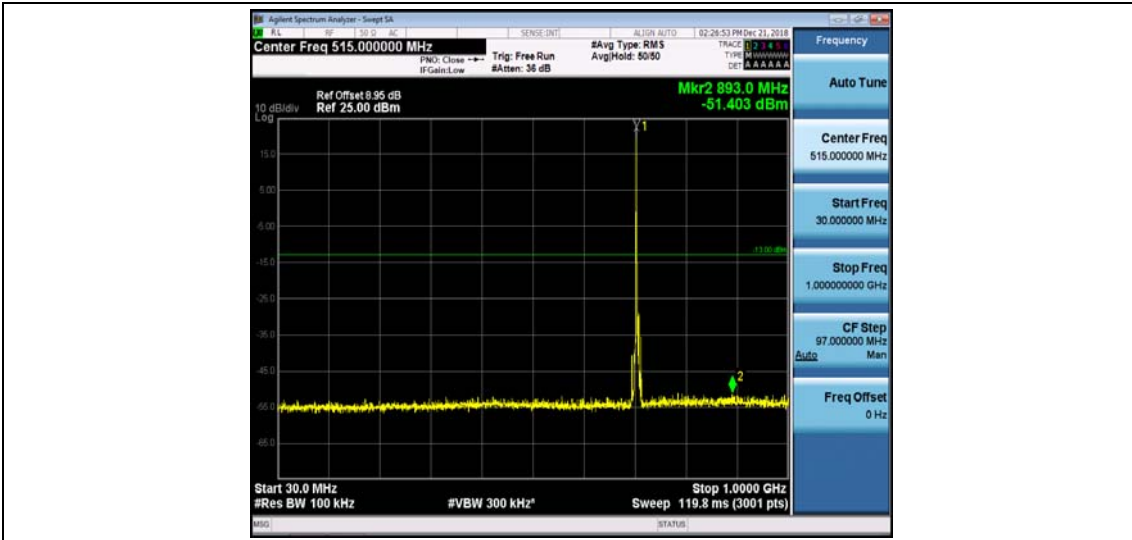
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Band12_5MHz_QPSK_23155_1RB#0



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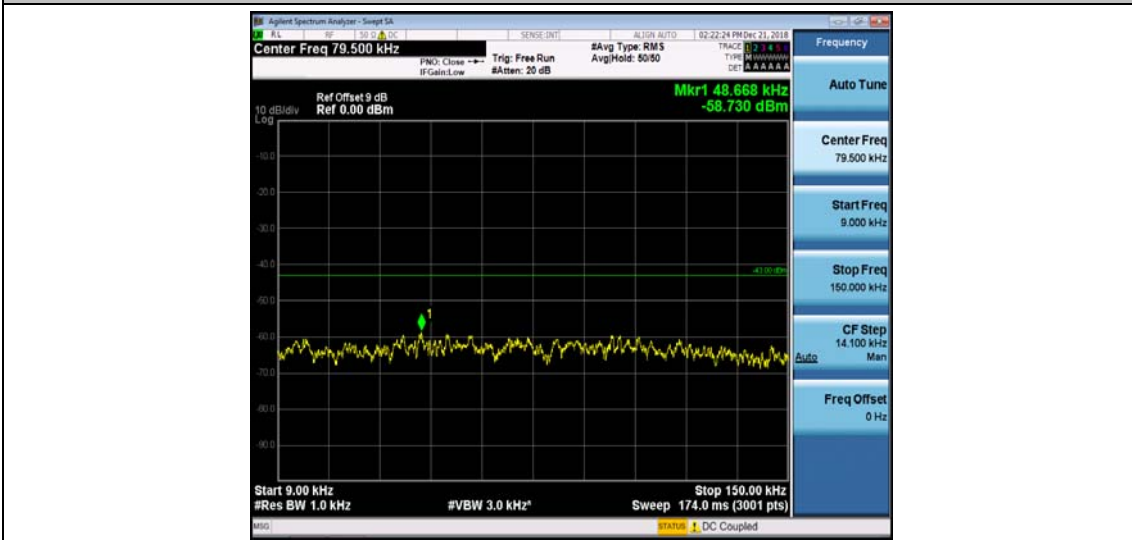
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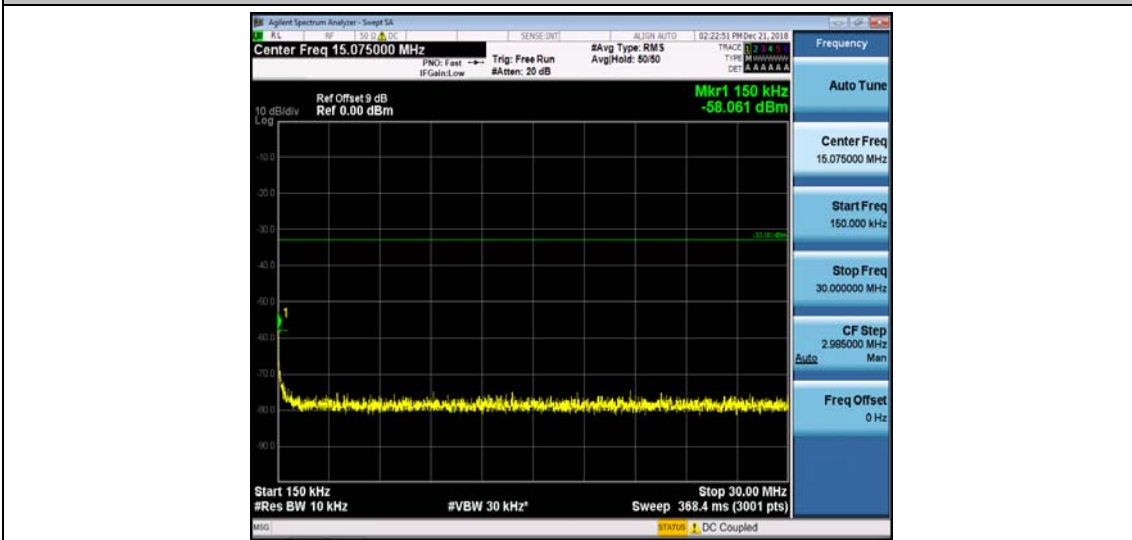
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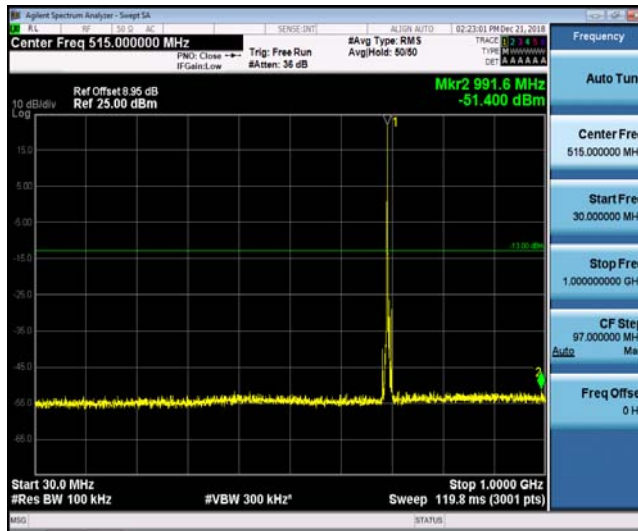
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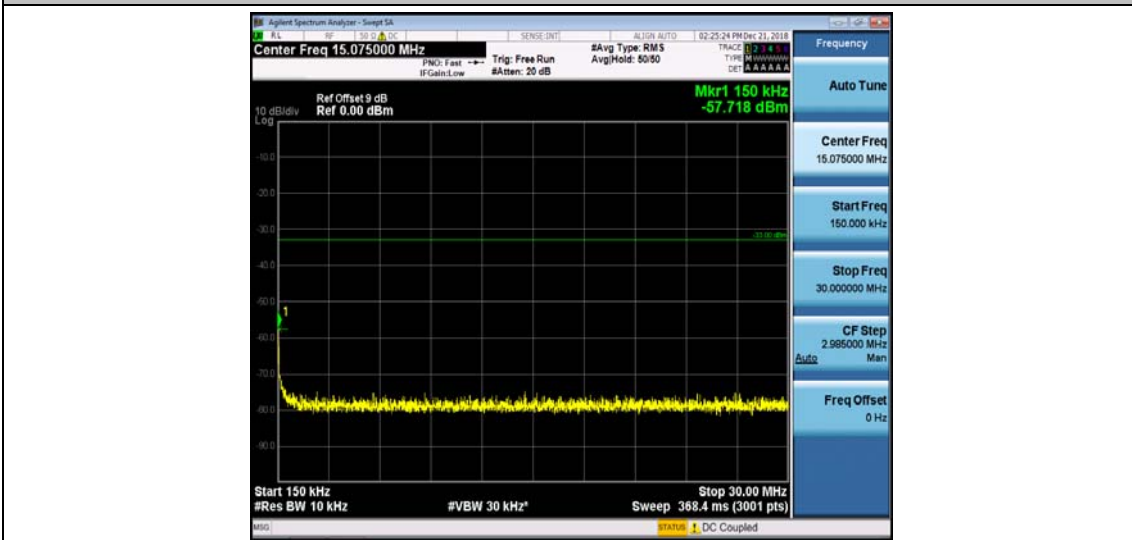
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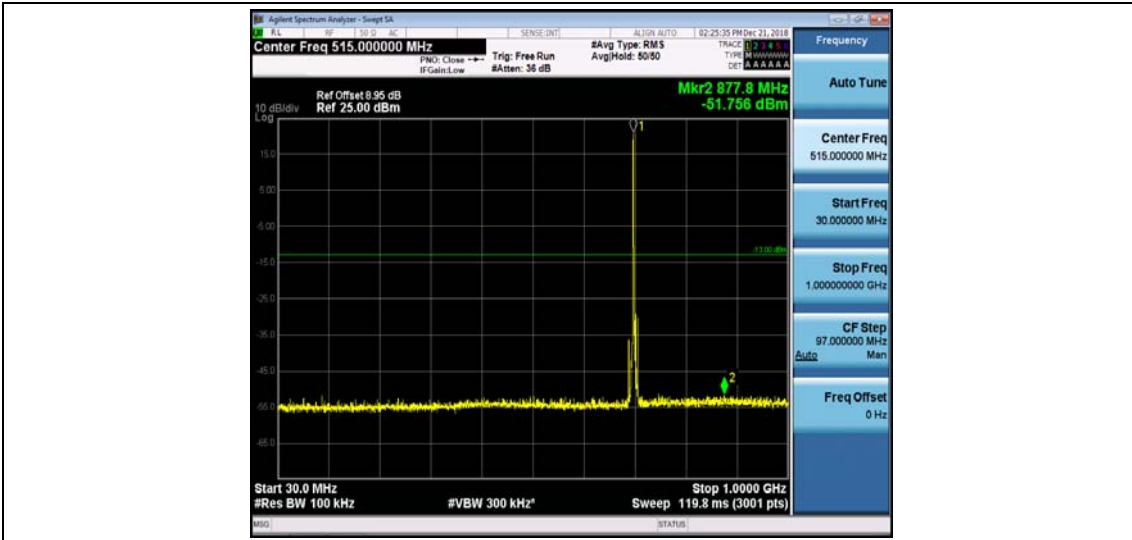
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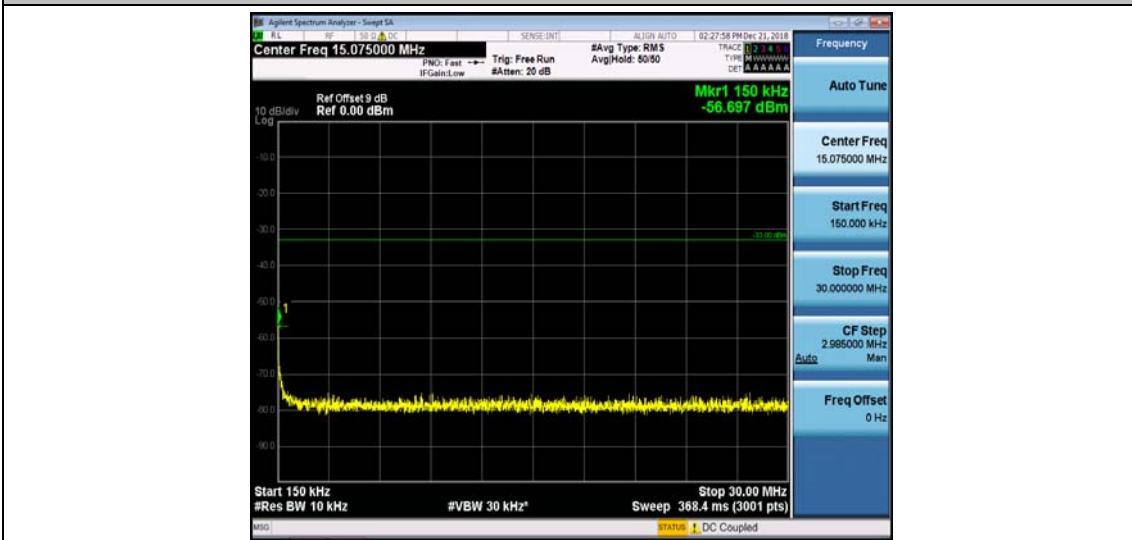
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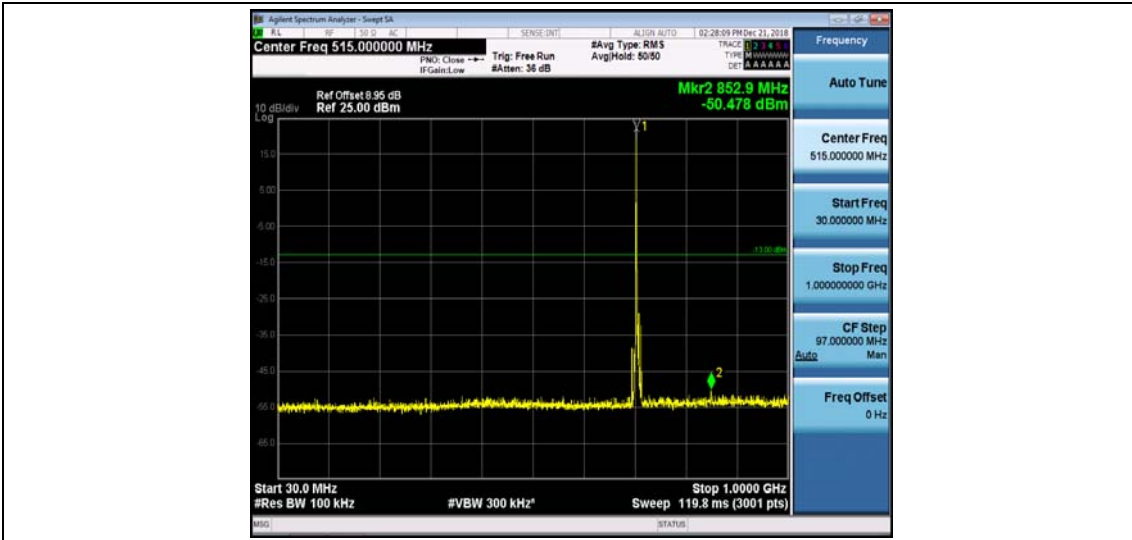
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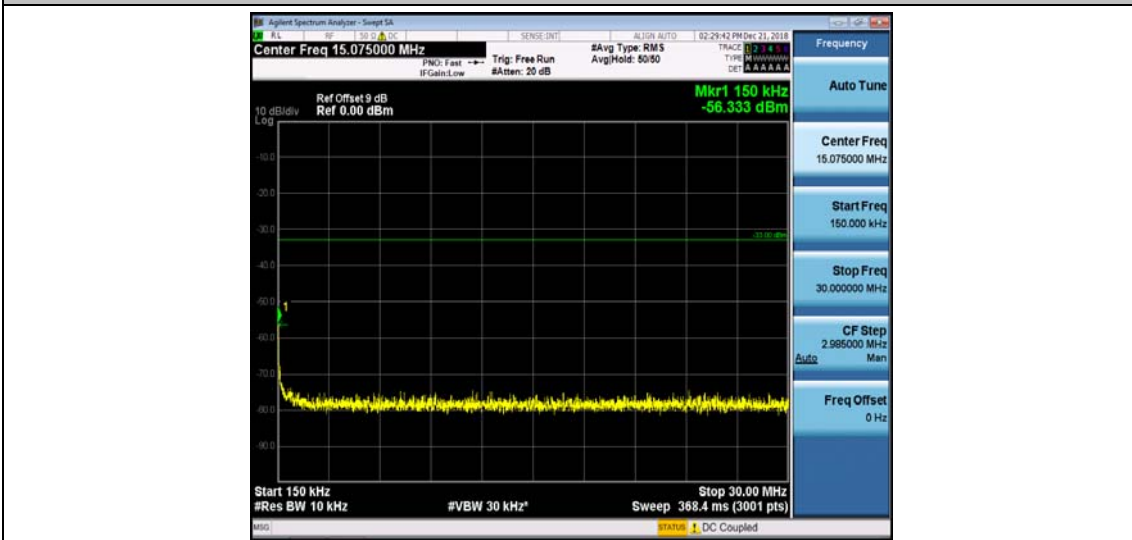
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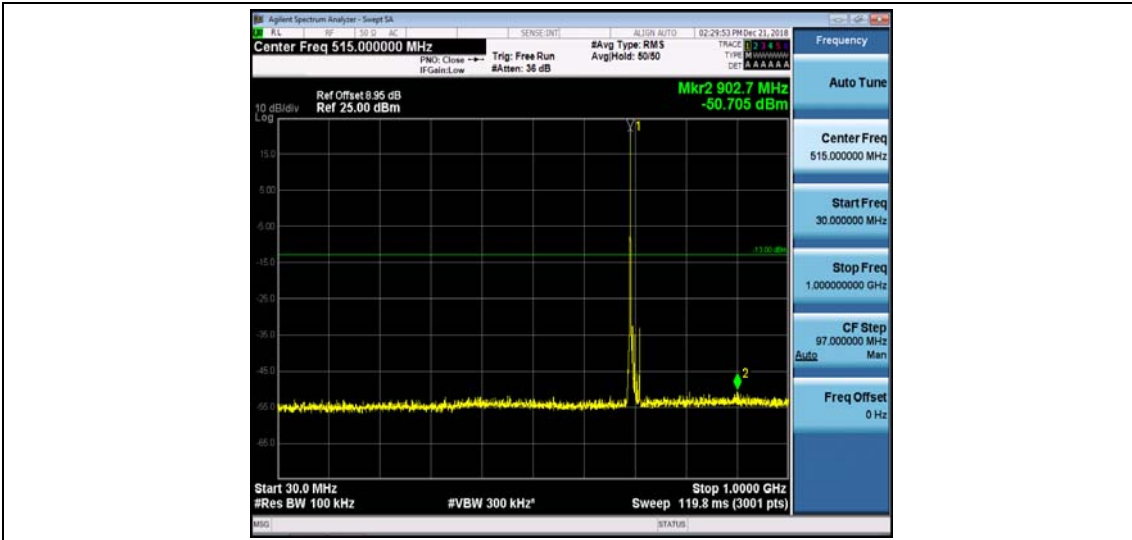
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Band12_10MHz_QPSK_23060_1RB#0



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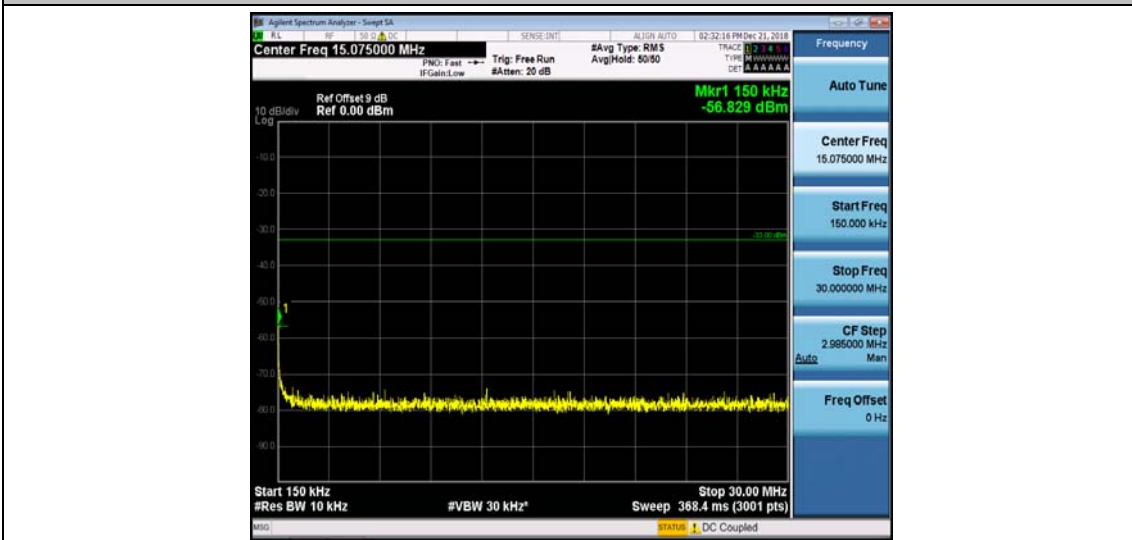
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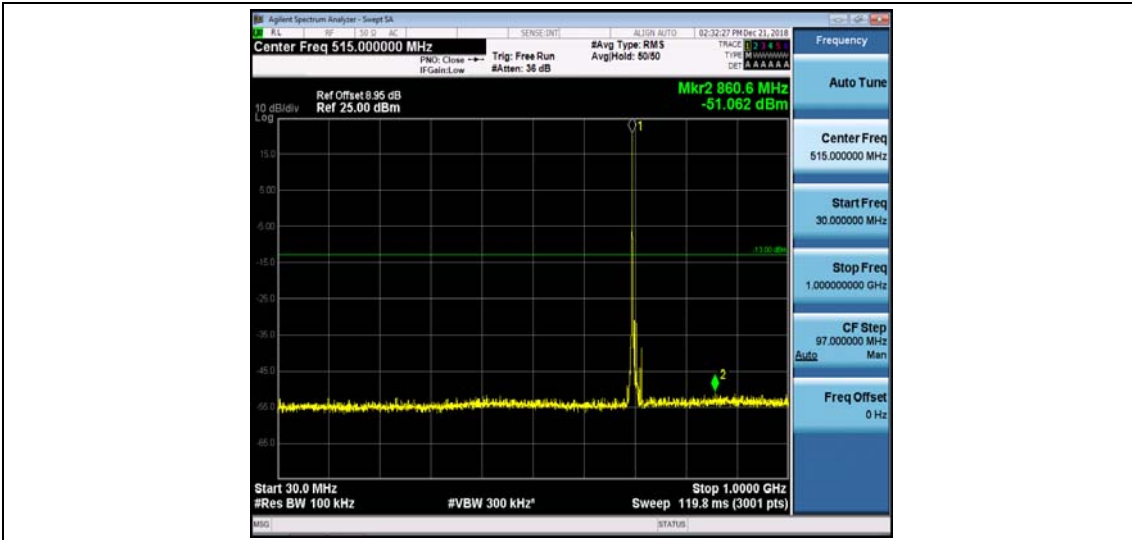
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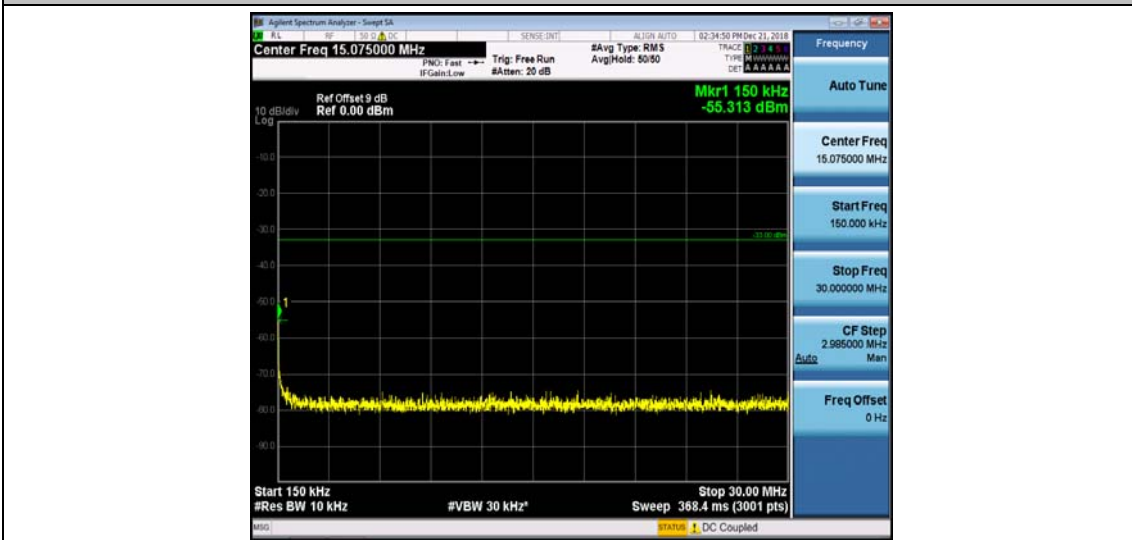
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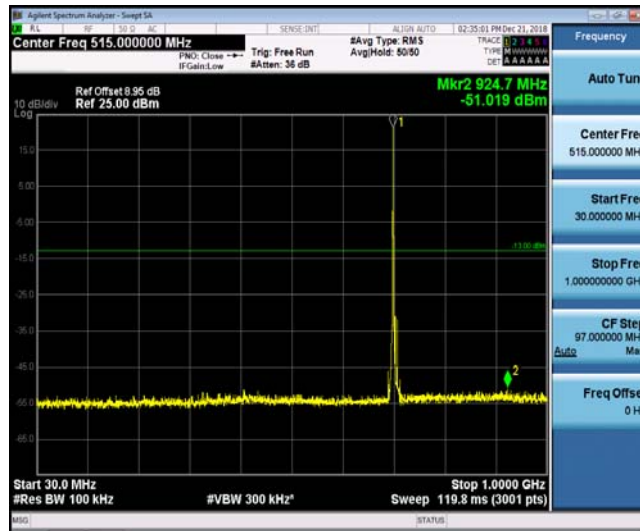
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Band12_10MHz_QPSK_23130_1RB#0



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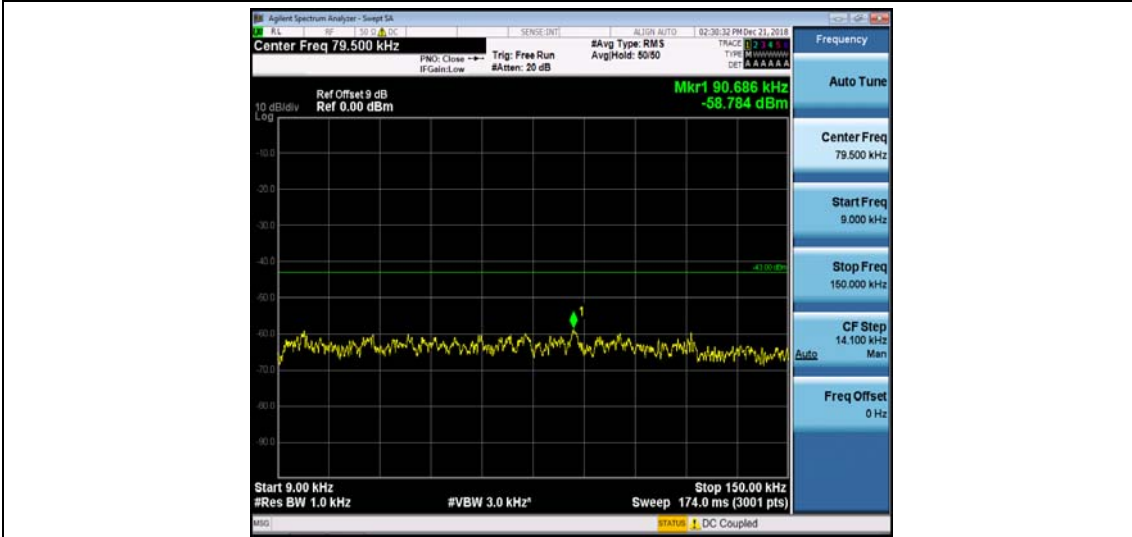
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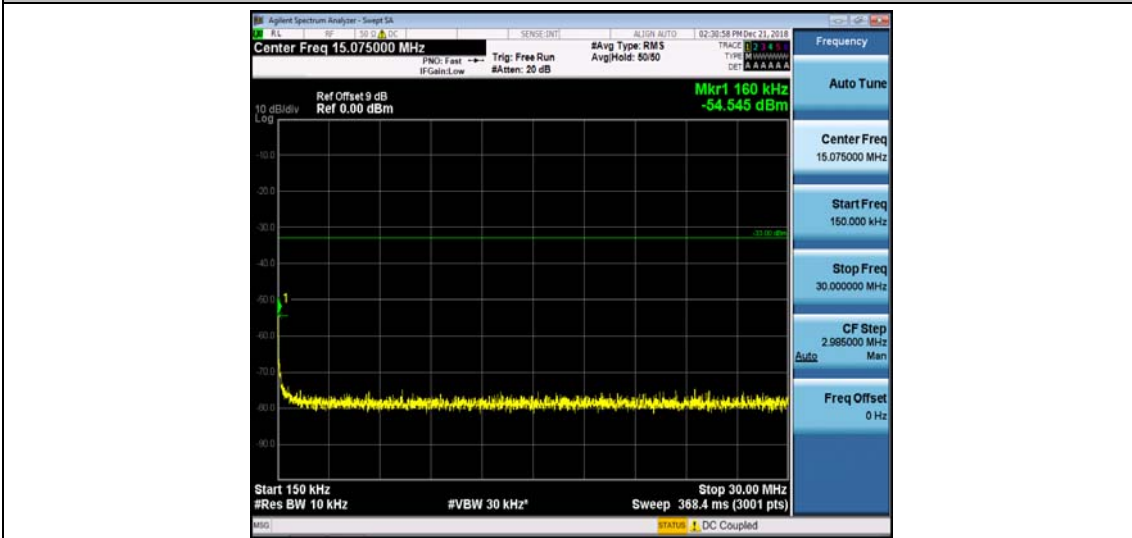
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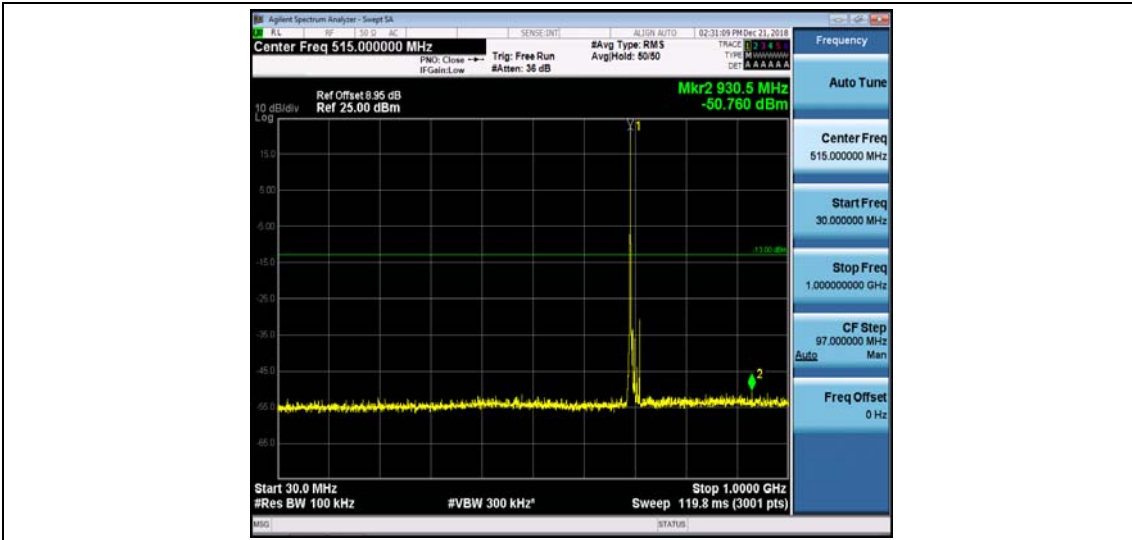
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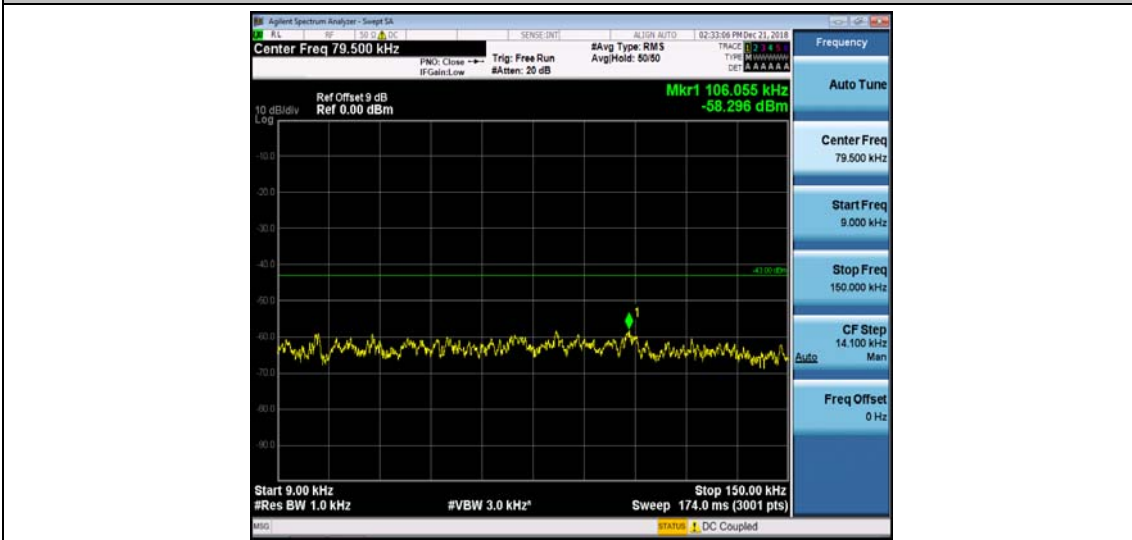
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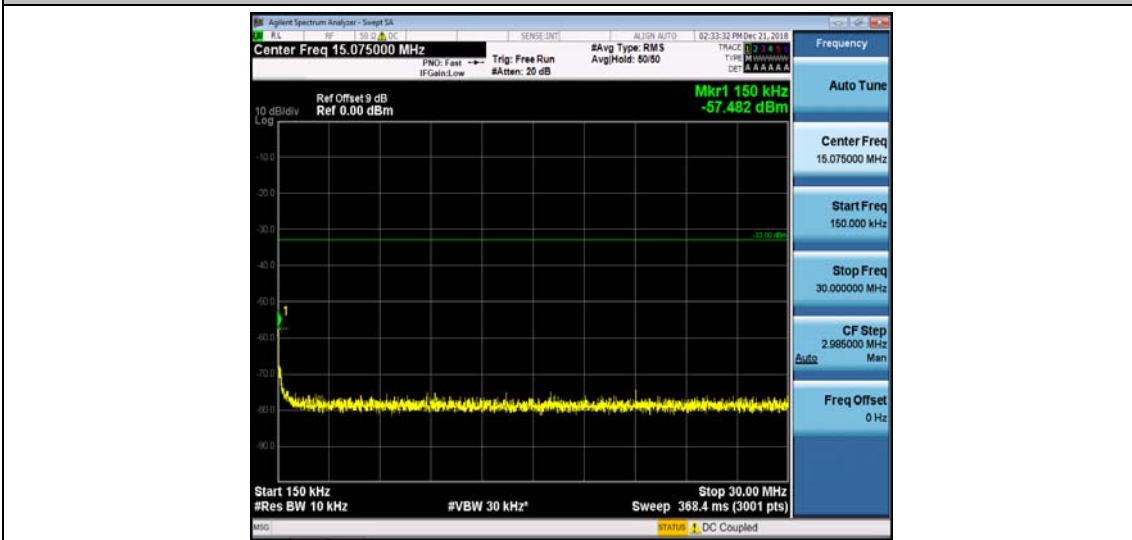
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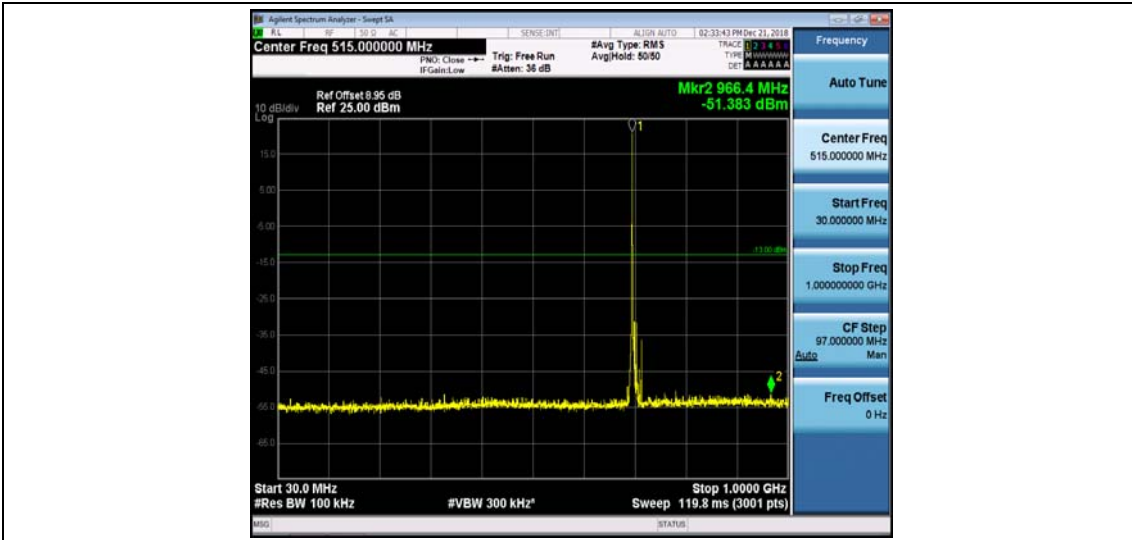
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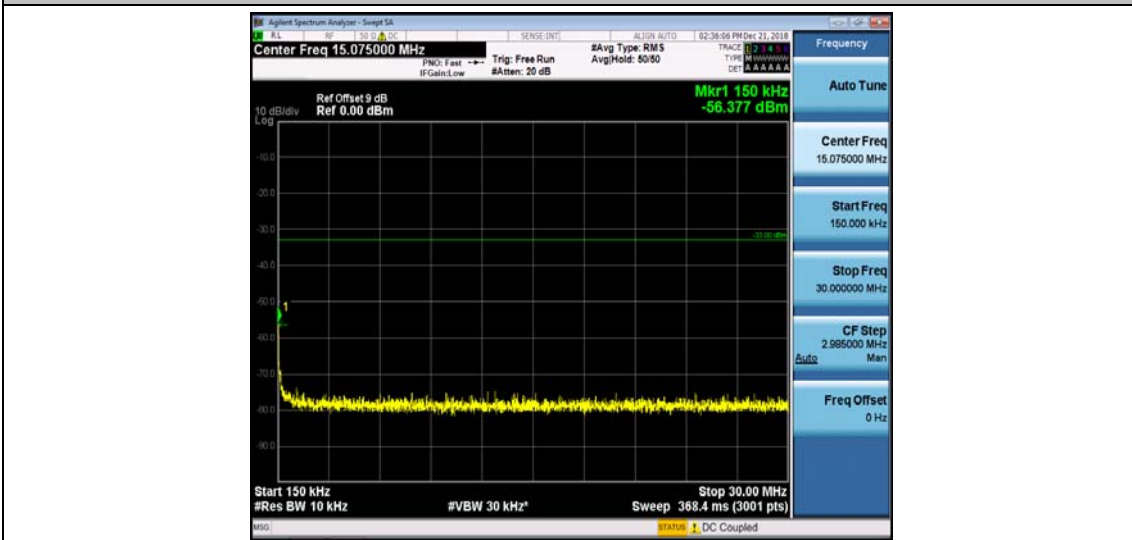
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Band12_10MHz_16QAM_23130_1RB#0



Band12_10MHz_16QAM_23130_1RB#0



Band12_10MHz_16QAM_23130_1RB#0



Band12_10MHz_16QAM_23130_1RB#0



Band12_10MHz_16QAM_23130_1RB#0



Band12_10MHz_16QAM_23130_1RB#0



Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-1.99	-0.002844	± 2.5	PASS
		VN	TN	4.65	0.006646	± 2.5	PASS
		VH	TN	-0.26	-0.000372	± 2.5	PASS
	MCH	VL	TN	2.69	0.003802	± 2.5	PASS
		VN	TN	2.32	0.003279	± 2.5	PASS
		VH	TN	3.48	0.004919	± 2.5	PASS
	HCH	VL	TN	3.71	0.005187	± 2.5	PASS
		VN	TN	3.28	0.004585	± 2.5	PASS
		VH	TN	-1.05	-0.001468	± 2.5	PASS
16QAM	LCH	VL	TN	1.41	0.002015	± 2.5	PASS
		VN	TN	4.16	0.005945	± 2.5	PASS
		VH	TN	3.16	0.004516	± 2.5	PASS
	MCH	VL	TN	2.25	0.003180	± 2.5	PASS
		VN	TN	0.7	0.000989	± 2.5	PASS
		VH	TN	4.47	0.006318	± 2.5	PASS
	HCH	VL	TN	3.04	0.004250	± 2.5	PASS
		VN	TN	3.85	0.005382	± 2.5	PASS
		VH	TN	1.09	0.001524	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.4	0.000572	± 2.5	PASS
		VN	-20	3.1	0.004430	± 2.5	PASS
		VN	-10	3.67	0.005245	± 2.5	PASS
		VN	0	3.92	0.005602	± 2.5	PASS
		VN	10	2.97	0.004245	± 2.5	PASS
		VN	20	0.52	0.000743	± 2.5	PASS
		VN	30	1.34	0.001915	± 2.5	PASS
		VN	40	-0.48	-0.000686	± 2.5	PASS
	MCH	VN	-30	-0.5	-0.000707	± 2.5	PASS
		VN	-20	-1.02	-0.001442	± 2.5	PASS

		VN	-10	-0.12	-0.000170	± 2.5	PASS	
		VN	0	0.23	0.000325	± 2.5	PASS	
		VN	10	-1.84	-0.002601	± 2.5	PASS	
		VN	20	-0.71	-0.001004	± 2.5	PASS	
		VN	30	4.44	0.006276	± 2.5	PASS	
		VN	40	0.72	0.001018	± 2.5	PASS	
		VN	50	-1.45	-0.002049	± 2.5	PASS	
	HCH	VN	-30	-0.7	-0.000979	± 2.5	PASS	
		VN	-20	3.58	0.005005	± 2.5	PASS	
		VN	-10	4.83	0.006752	± 2.5	PASS	
		VN	0	0.07	0.000098	± 2.5	PASS	
		VN	10	3.6	0.005033	± 2.5	PASS	
		VN	20	2.22	0.003104	± 2.5	PASS	
		VN	30	-0.13	-0.000182	± 2.5	PASS	
	16QAM	LCH	VN	40	2.99	0.004180	± 2.5	PASS
			VN	50	-0.22	-0.000308	± 2.5	PASS
			VN	-30	2.9	0.004145	± 2.5	PASS
			VN	-20	3.87	0.005531	± 2.5	PASS
VN			-10	-1.48	-0.002115	± 2.5	PASS	
VN			0	-1.51	-0.002158	± 2.5	PASS	
VN			10	1.36	0.001944	± 2.5	PASS	
VN			20	4.54	0.006488	± 2.5	PASS	
VN			30	3.73	0.005331	± 2.5	PASS	
MCH		VN	40	2.72	0.003887	± 2.5	PASS	
		VN	50	1.81	0.002587	± 2.5	PASS	
		VN	-30	0.29	0.000410	± 2.5	PASS	
		VN	-20	-1.01	-0.001428	± 2.5	PASS	
		VN	-10	0.82	0.001159	± 2.5	PASS	
		VN	0	1.31	0.001852	± 2.5	PASS	
		VN	10	0.86	0.001216	± 2.5	PASS	
		VN	20	-0.38	-0.000537	± 2.5	PASS	
		VN	30	0.11	0.000155	± 2.5	PASS	
HCH	VN	40	-0.48	-0.000678	± 2.5	PASS		
	VN	50	1.94	0.002742	± 2.5	PASS		
	VN	-30	2.69	0.003761	± 2.5	PASS		
	VN	-20	4.29	0.005997	± 2.5	PASS		
	VN	-10	-0.03	-0.000042	± 2.5	PASS		
	VN	0	0.11	0.000154	± 2.5	PASS		
	VN	10	2.32	0.003243	± 2.5	PASS		
VN	20	1.54	0.002153	± 2.5	PASS			
VN	30	-0.91	-0.001272	± 2.5	PASS			

		VN	40	3.47	0.004851	± 2.5	PASS
		VN	50	4.17	0.005830	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	0.42	0.000600	± 2.5	PASS
		VN	TN	2.06	0.002941	± 2.5	PASS
		VH	TN	4.18	0.005967	± 2.5	PASS
	MCH	VL	TN	1.7	0.002403	± 2.5	PASS
		VN	TN	0.16	0.000226	± 2.5	PASS
		VH	TN	4.78	0.006756	± 2.5	PASS
	HCH	VL	TN	-0.32	-0.000448	± 2.5	PASS
		VN	TN	4.18	0.005850	± 2.5	PASS
		VH	TN	0.88	0.001232	± 2.5	PASS
16QAM	LCH	VL	TN	-0.12	-0.000171	± 2.5	PASS
		VN	TN	4.67	0.006667	± 2.5	PASS
		VH	TN	0.8	0.001142	± 2.5	PASS
	MCH	VL	TN	4.6	0.006502	± 2.5	PASS
		VN	TN	-0.15	-0.000212	± 2.5	PASS
		VH	TN	1.34	0.001894	± 2.5	PASS
	HCH	VL	TN	2.64	0.003695	± 2.5	PASS
		VN	TN	-0.04	-0.000056	± 2.5	PASS
		VH	TN	-1.42	-0.001987	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.42	0.003455	± 2.5	PASS
		VN	-20	-1.55	-0.002213	± 2.5	PASS
		VN	-10	-1.46	-0.002084	± 2.5	PASS
		VN	0	1.72	0.002455	± 2.5	PASS
		VN	10	3.18	0.004540	± 2.5	PASS
		VN	20	-1.81	-0.002584	± 2.5	PASS
		VN	30	1.58	0.002256	± 2.5	PASS
		VN	40	1.29	0.001842	± 2.5	PASS
		VN	50	1.02	0.001456	± 2.5	PASS
	MCH	VN	-30	0.05	0.000071	± 2.5	PASS
		VN	-20	-0.92	-0.001300	± 2.5	PASS
		VN	-10	3.96	0.005597	± 2.5	PASS

		VN	0	0.28	0.000396	± 2.5	PASS		
		VN	10	2.81	0.003972	± 2.5	PASS		
		VN	20	0.23	0.000325	± 2.5	PASS		
		VN	30	3.22	0.004551	± 2.5	PASS		
		VN	40	2.87	0.004057	± 2.5	PASS		
		VN	50	-1.12	-0.001583	± 2.5	PASS		
	HCH	VN	-30	2.51	0.003513	± 2.5	PASS		
		VN	-20	-0.33	-0.000462	± 2.5	PASS		
		VN	-10	3.82	0.005346	± 2.5	PASS		
		VN	0	-1.08	-0.001512	± 2.5	PASS		
		VN	10	-0.93	-0.001302	± 2.5	PASS		
		VN	20	-0.87	-0.001218	± 2.5	PASS		
		VN	30	-0.41	-0.000574	± 2.5	PASS		
		VN	40	1.66	0.002323	± 2.5	PASS		
		VN	50	3.2	0.004479	± 2.5	PASS		
		16QAM	LCH	VN	-30	-0.47	-0.000671	± 2.5	PASS
				VN	-20	2.68	0.003826	± 2.5	PASS
				VN	-10	4.15	0.005924	± 2.5	PASS
VN	0			-0.58	-0.000828	± 2.5	PASS		
VN	10			0.74	0.001056	± 2.5	PASS		
VN	20			0.89	0.001271	± 2.5	PASS		
VN	30			0.47	0.000671	± 2.5	PASS		
VN	40			1.91	0.002727	± 2.5	PASS		
VN	50			-1.37	-0.001956	± 2.5	PASS		
MCH	VN		-30	2.04	0.002883	± 2.5	PASS		
	VN		-20	2.83	0.004000	± 2.5	PASS		
	VN		-10	-0.63	-0.000890	± 2.5	PASS		
	VN		0	1.28	0.001809	± 2.5	PASS		
	VN		10	-0.29	-0.000410	± 2.5	PASS		
	VN		20	-0.68	-0.000961	± 2.5	PASS		
	VN		30	3.04	0.004297	± 2.5	PASS		
	VN		40	2.14	0.003025	± 2.5	PASS		
	VN		50	4.43	0.006261	± 2.5	PASS		
HCH	VN		-30	0.21	0.000294	± 2.5	PASS		
	VN		-20	3.84	0.005374	± 2.5	PASS		
	VN		-10	3.56	0.004983	± 2.5	PASS		
	VN		0	0.33	0.000462	± 2.5	PASS		
	VN		10	4.96	0.006942	± 2.5	PASS		
	VN		20	3.21	0.004493	± 2.5	PASS		
	VN		30	-0.47	-0.000658	± 2.5	PASS		
	VN		40	3.48	0.004871	± 2.5	PASS		

		VN	50	4.07	0.005696	± 2.5	PASS
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Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.26	0.006073	± 2.5	PASS
		VN	TN	4.26	0.006073	± 2.5	PASS
		VH	TN	4.32	0.006158	± 2.5	PASS
	MCH	VL	TN	1.02	0.001442	± 2.5	PASS
		VN	TN	-1.32	-0.001866	± 2.5	PASS
		VH	TN	4.46	0.006304	± 2.5	PASS
	HCH	VL	TN	3.07	0.004303	± 2.5	PASS
		VN	TN	-0.33	-0.000463	± 2.5	PASS
		VH	TN	1.58	0.002214	± 2.5	PASS
16QAM	LCH	VL	TN	1.96	0.002794	± 2.5	PASS
		VN	TN	1.28	0.001825	± 2.5	PASS
		VH	TN	2.07	0.002951	± 2.5	PASS
	MCH	VL	TN	2.52	0.003562	± 2.5	PASS
		VN	TN	2.05	0.002898	± 2.5	PASS
		VH	TN	4.26	0.006021	± 2.5	PASS
	HCH	VL	TN	0.22	0.000308	± 2.5	PASS
		VN	TN	4.35	0.006097	± 2.5	PASS
		VH	TN	4.03	0.005648	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.57	-0.000813	± 2.5	PASS
		VN	-20	2.78	0.003963	± 2.5	PASS
		VN	-10	3.63	0.005175	± 2.5	PASS
		VN	0	-1.94	-0.002766	± 2.5	PASS
		VN	10	2.42	0.003450	± 2.5	PASS
		VN	20	2.7	0.003849	± 2.5	PASS
		VN	30	0.83	0.001183	± 2.5	PASS
		VN	40	-1.78	-0.002537	± 2.5	PASS
		VN	50	3.52	0.005018	± 2.5	PASS
	MCH	VN	-30	4.75	0.006714	± 2.5	PASS
		VN	-20	1.73	0.002445	± 2.5	PASS
		VN	-10	2.76	0.003901	± 2.5	PASS
		VN	0	0.55	0.000777	± 2.5	PASS

		VN	10	0	0.000000	± 2.5	PASS
		VN	20	3.98	0.005625	± 2.5	PASS
		VN	30	-0.55	-0.000777	± 2.5	PASS
		VN	40	-0.53	-0.000749	± 2.5	PASS
		VN	50	2.57	0.003633	± 2.5	PASS
	HCH	VN	-30	-1.09	-0.001528	± 2.5	PASS
		VN	-20	2.16	0.003027	± 2.5	PASS
		VN	-10	-1.53	-0.002144	± 2.5	PASS
		VN	0	3.76	0.005270	± 2.5	PASS
		VN	10	3.09	0.004331	± 2.5	PASS
		VN	20	3.22	0.004513	± 2.5	PASS
		VN	30	1.21	0.001696	± 2.5	PASS
		VN	40	-0.57	-0.000799	± 2.5	PASS
		VN	50	2.34	0.003280	± 2.5	PASS
		16QAM	LCH	VN	-30	-1.97	-0.002808
VN	-20			2.74	0.003906	± 2.5	PASS
VN	-10			4.74	0.006757	± 2.5	PASS
VN	0			3.97	0.005659	± 2.5	PASS
VN	10			0.27	0.000385	± 2.5	PASS
VN	20			-0.81	-0.001155	± 2.5	PASS
VN	30			-1.01	-0.001440	± 2.5	PASS
VN	40			4.05	0.005773	± 2.5	PASS
VN	50			-1.01	-0.001440	± 2.5	PASS
MCH	VN		-30	-0.71	-0.001004	± 2.5	PASS
	VN		-20	1.96	0.002770	± 2.5	PASS
	VN		-10	2.7	0.003816	± 2.5	PASS
	VN		0	2.62	0.003703	± 2.5	PASS
	VN		10	3.82	0.005399	± 2.5	PASS
	VN		20	-0.12	-0.000170	± 2.5	PASS
	VN		30	-0.26	-0.000367	± 2.5	PASS
	VN		40	-1.99	-0.002813	± 2.5	PASS
	VN		50	1.66	0.002346	± 2.5	PASS
HCH	VN		-30	1.87	0.002621	± 2.5	PASS
	VN		-20	4.4	0.006167	± 2.5	PASS
	VN		-10	2.32	0.003252	± 2.5	PASS
	VN		0	-1.03	-0.001444	± 2.5	PASS
	VN		10	4.83	0.006769	± 2.5	PASS
	VN		20	-0.1	-0.000140	± 2.5	PASS
	VN		30	4.02	0.005634	± 2.5	PASS
	VN		40	3.72	0.005214	± 2.5	PASS
	VN		50	0.86	0.001205	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	3.11	0.004418	± 2.5	PASS
		VN	TN	1.09	0.001548	± 2.5	PASS
		VH	TN	3.26	0.004631	± 2.5	PASS
	MCH	VL	TN	2.88	0.004071	± 2.5	PASS
		VN	TN	0.85	0.001201	± 2.5	PASS
		VH	TN	2.99	0.004226	± 2.5	PASS
	HCH	VL	TN	3.13	0.004402	± 2.5	PASS
		VN	TN	-1.11	-0.001561	± 2.5	PASS
		VH	TN	0.43	0.000605	± 2.5	PASS
16QAM	LCH	VL	TN	4.7	0.006676	± 2.5	PASS
		VN	TN	4.53	0.006435	± 2.5	PASS
		VH	TN	1.61	0.002287	± 2.5	PASS
	MCH	VL	TN	3.19	0.004509	± 2.5	PASS
		VN	TN	2.54	0.003590	± 2.5	PASS
		VH	TN	4.29	0.006064	± 2.5	PASS
	HCH	VL	TN	-0.72	-0.001013	± 2.5	PASS
		VN	TN	1.1	0.001547	± 2.5	PASS
		VH	TN	3.84	0.005401	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-0.77	-0.001094	± 2.5	PASS
		VN	-20	-1.98	-0.002813	± 2.5	PASS
		VN	-10	0.07	0.000099	± 2.5	PASS
		VN	0	-0.75	-0.001065	± 2.5	PASS
		VN	10	4.47	0.006349	± 2.5	PASS
		VN	20	2.36	0.003352	± 2.5	PASS
		VN	30	3.46	0.004915	± 2.5	PASS
		VN	40	2.2	0.003125	± 2.5	PASS
		VN	50	-1.11	-0.001577	± 2.5	PASS
	MCH	VN	-30	1.11	0.001569	± 2.5	PASS
		VN	-20	4.64	0.006558	± 2.5	PASS
		VN	-10	3.1	0.004382	± 2.5	PASS
		VN	0	3.84	0.005428	± 2.5	PASS
		VN	10	-1.08	-0.001527	± 2.5	PASS
		VN	20	4.38	0.006191	± 2.5	PASS

		VN	30	3.77	0.005329	± 2.5	PASS
		VN	40	2.04	0.002883	± 2.5	PASS
		VN	50	4.29	0.006064	± 2.5	PASS
	HCH	VN	-30	-1.56	-0.002194	± 2.5	PASS
		VN	-20	-0.16	-0.000225	± 2.5	PASS
		VN	-10	3.48	0.004895	± 2.5	PASS
		VN	0	0.86	0.001210	± 2.5	PASS
		VN	10	0.42	0.000591	± 2.5	PASS
		VN	20	1.68	0.002363	± 2.5	PASS
		VN	30	-1.47	-0.002068	± 2.5	PASS
		VN	40	1.05	0.001477	± 2.5	PASS
		VN	50	3.83	0.005387	± 2.5	PASS
QPSK	LCH	VN	-30	1.18	0.001676	± 2.5	PASS
		VN	-20	3.72	0.005284	± 2.5	PASS
		VN	-10	1.18	0.001676	± 2.5	PASS
		VN	0	0.99	0.001406	± 2.5	PASS
		VN	10	3.43	0.004872	± 2.5	PASS
		VN	20	2.22	0.003153	± 2.5	PASS
		VN	30	4.88	0.006932	± 2.5	PASS
		VN	40	3.03	0.004304	± 2.5	PASS
		VN	50	3.27	0.004645	± 2.5	PASS
	MCH	VN	-30	0.07	0.000099	± 2.5	PASS
		VN	-20	2.82	0.003986	± 2.5	PASS
		VN	-10	3.56	0.005032	± 2.5	PASS
		VN	0	2.4	0.003392	± 2.5	PASS
		VN	10	-1.88	-0.002657	± 2.5	PASS
		VN	20	0.27	0.000382	± 2.5	PASS
		VN	30	-0.66	-0.000933	± 2.5	PASS
		VN	40	-0.94	-0.001329	± 2.5	PASS
		VN	50	1.88	0.002657	± 2.5	PASS
	HCH	VN	-30	1.18	0.001660	± 2.5	PASS
		VN	-20	1.97	0.002771	± 2.5	PASS
		VN	-10	3.35	0.004712	± 2.5	PASS
		VN	0	0.14	0.000197	± 2.5	PASS
		VN	10	4.05	0.005696	± 2.5	PASS
		VN	20	-0.68	-0.000956	± 2.5	PASS
		VN	30	2.68	0.003769	± 2.5	PASS
		VN	40	-1.55	-0.002180	± 2.5	PASS
		VN	50	2.95	0.004149	± 2.5	PASS