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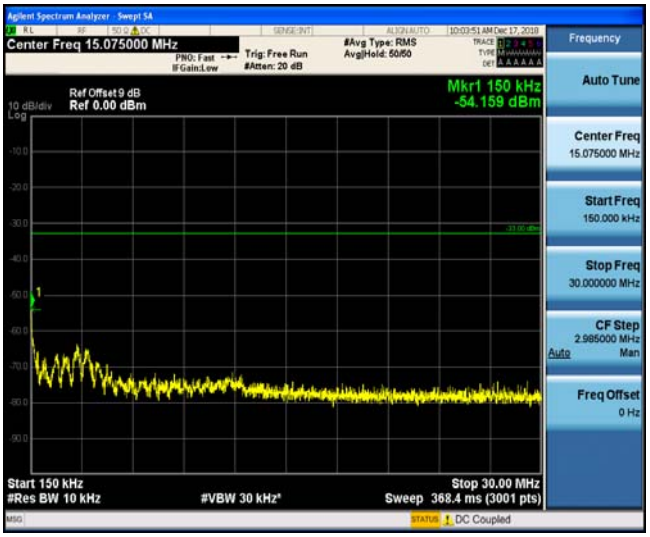

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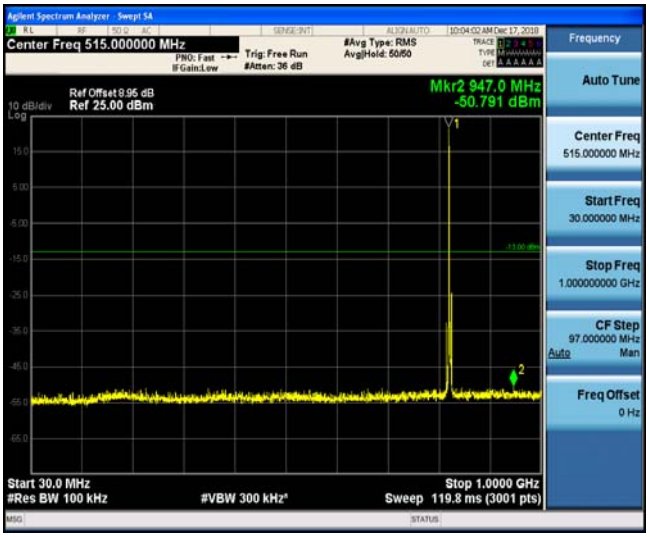

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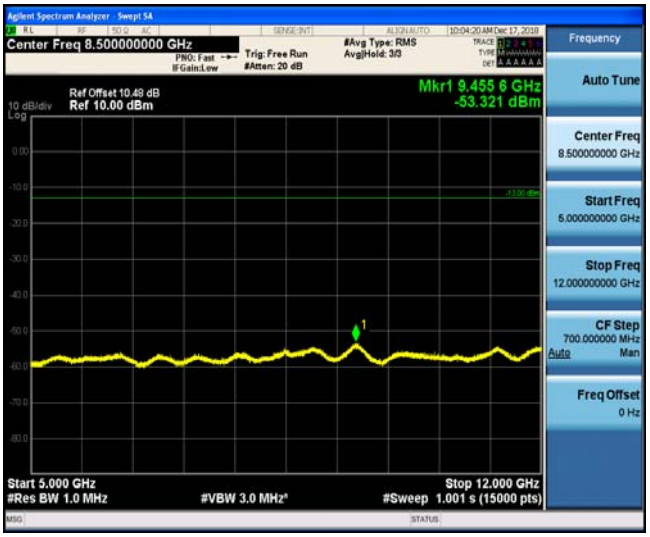

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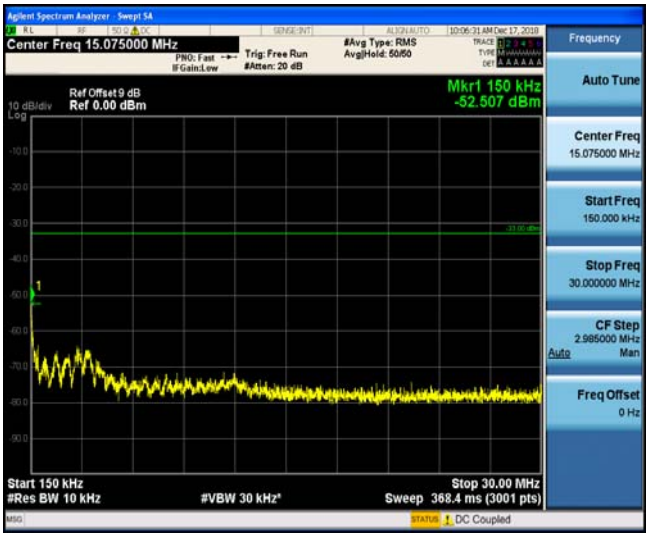

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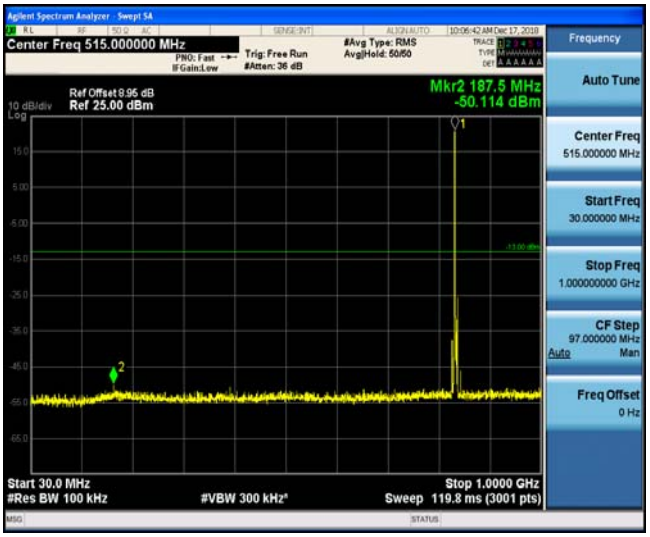

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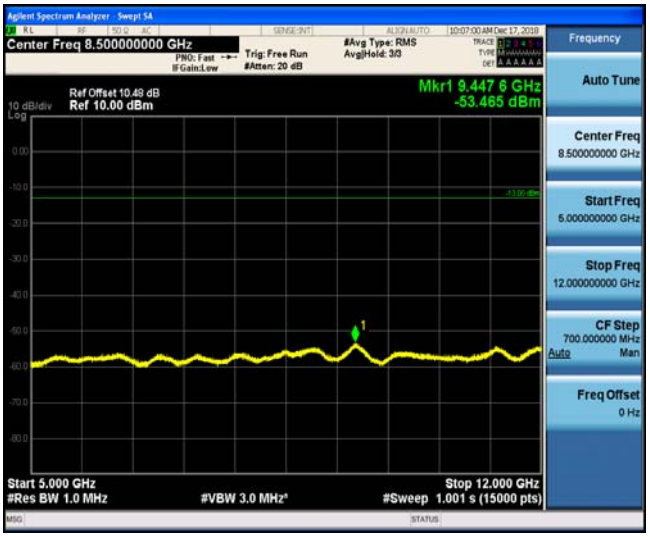

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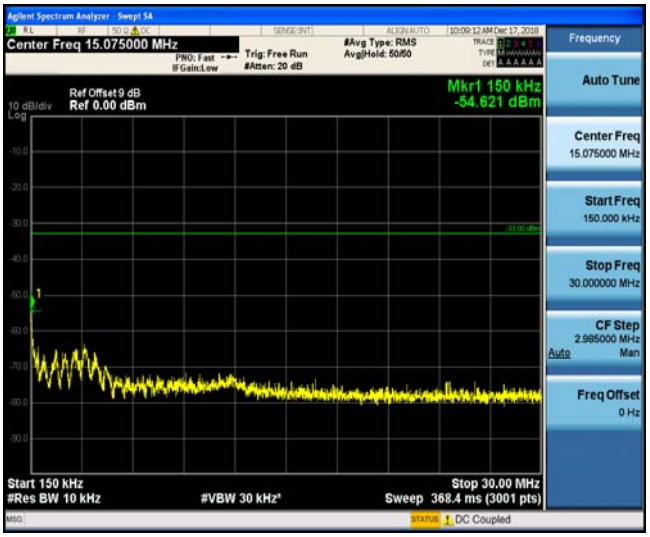

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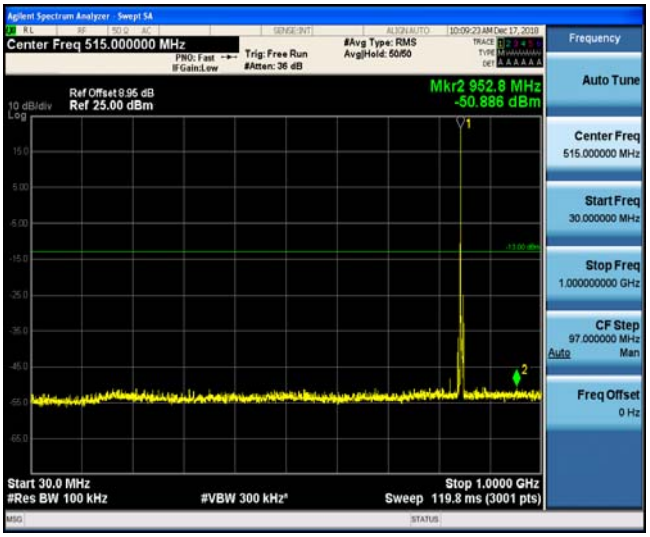

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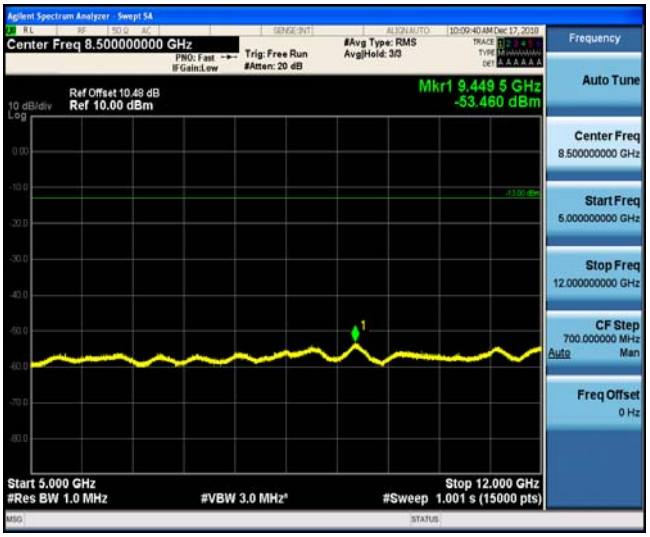

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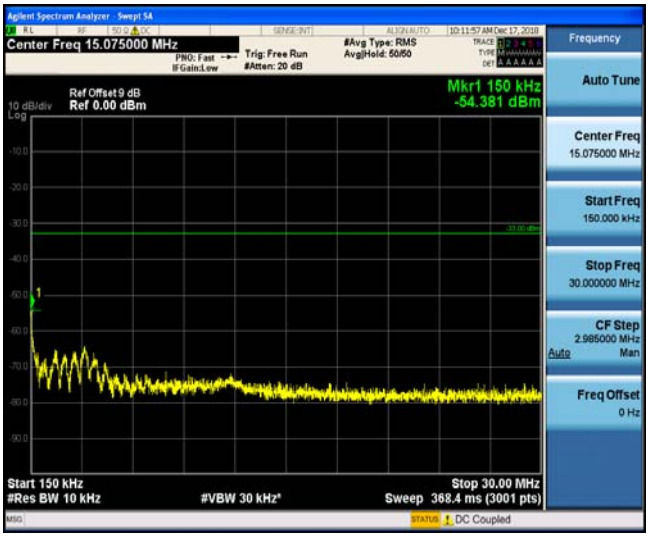

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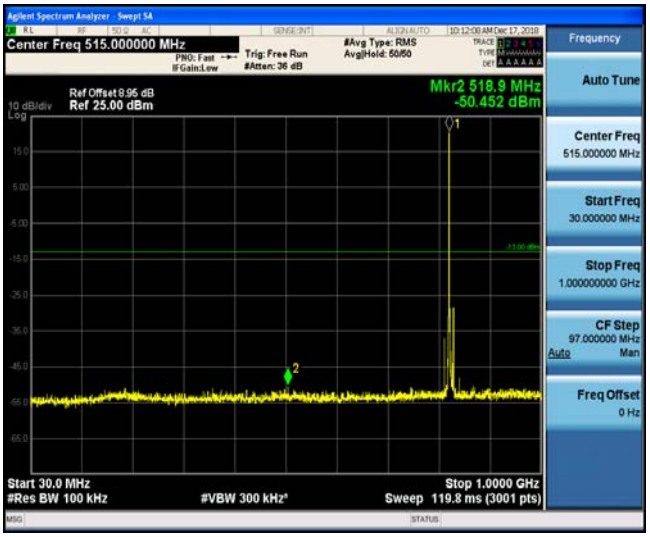

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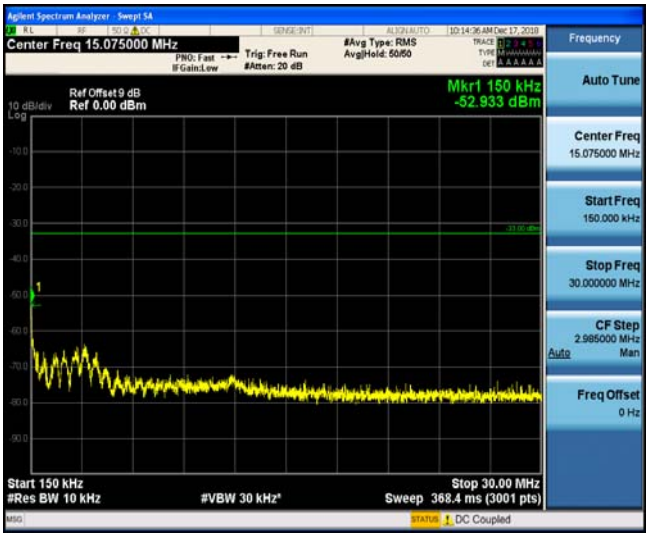

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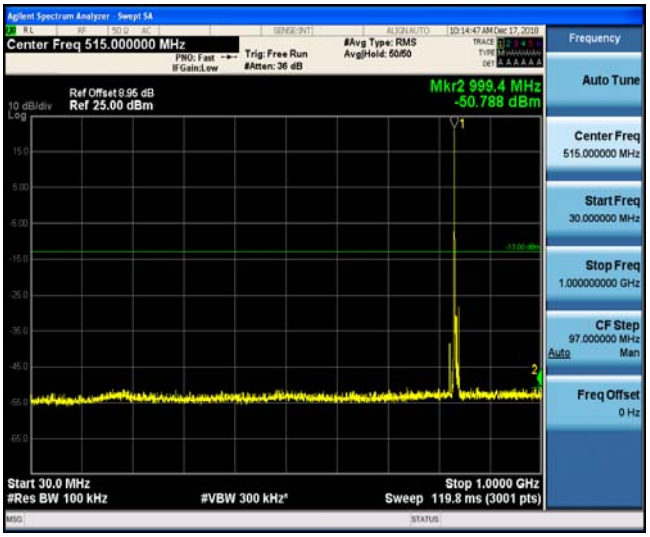

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Band5_5MHz_QPSK_20525_1RB#0

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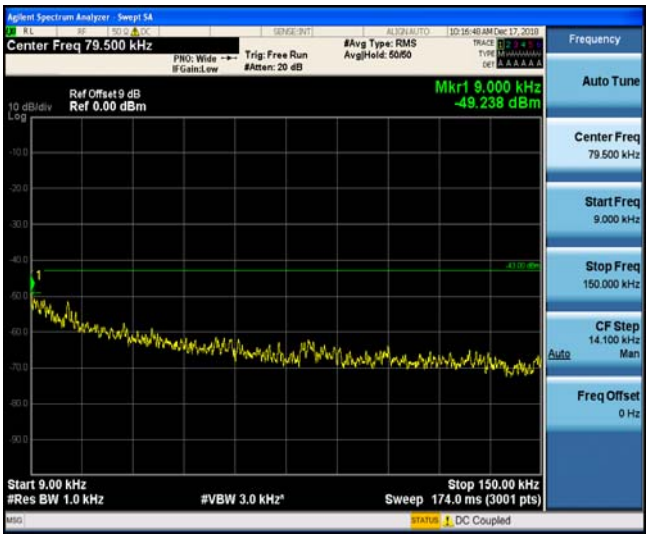

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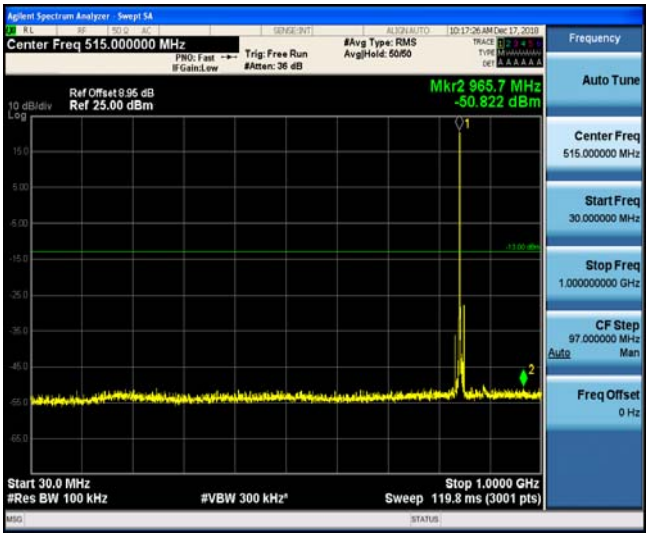

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Band5_5MHz_QPSK_20625_1RB#0

Band5_5MHz_QPSK_20625_1RB#0

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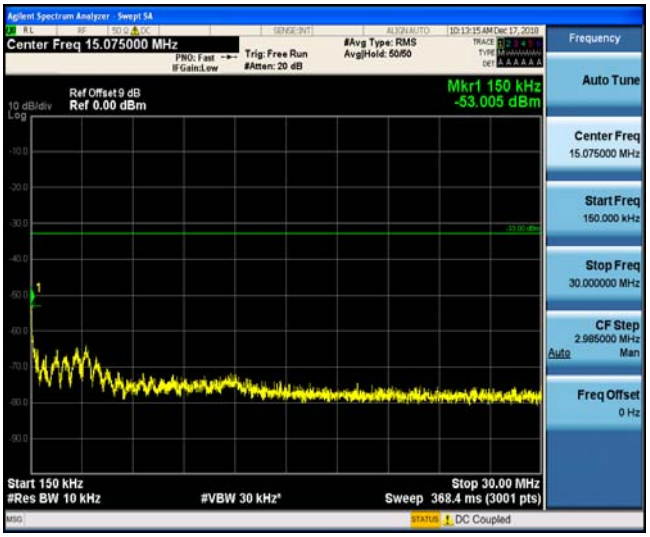

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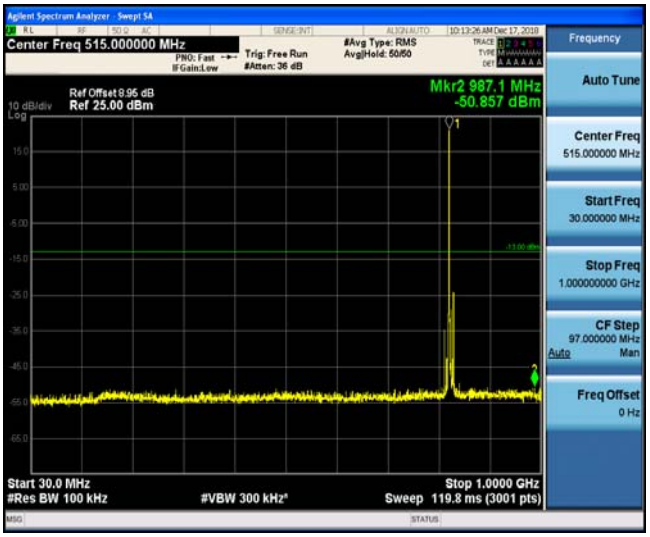

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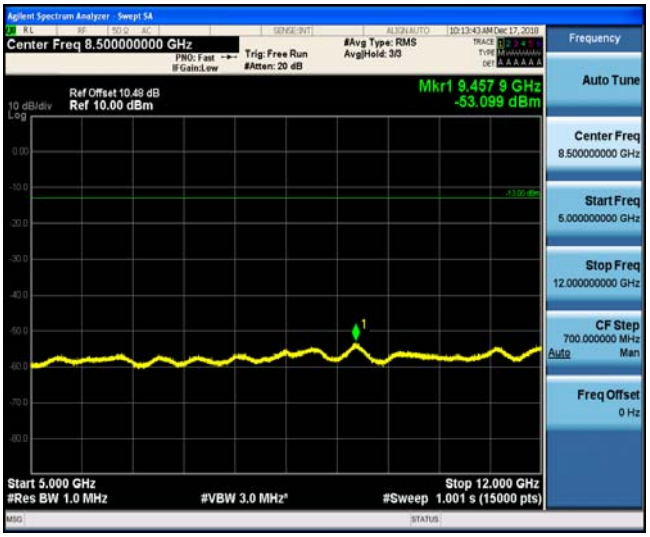

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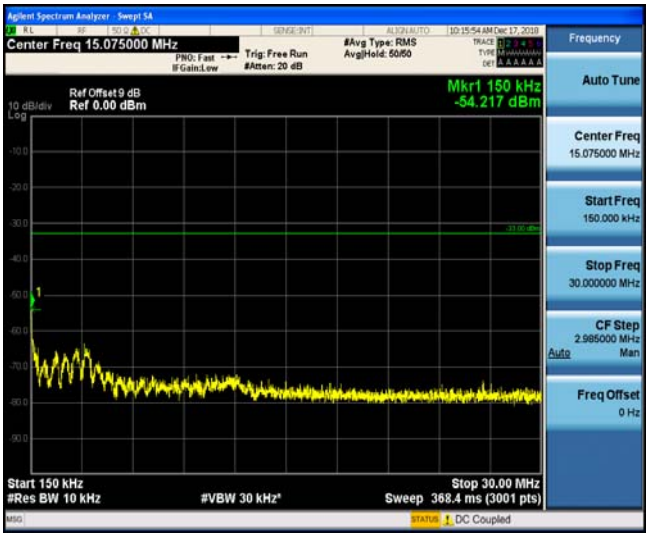

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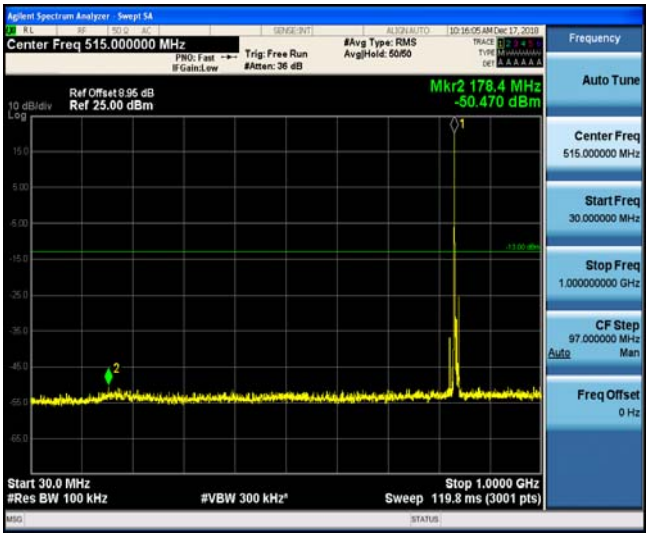

Band5_5MHz_16QAM_20525_1RB#0

Band5_5MHz_16QAM_20525_1RB#0

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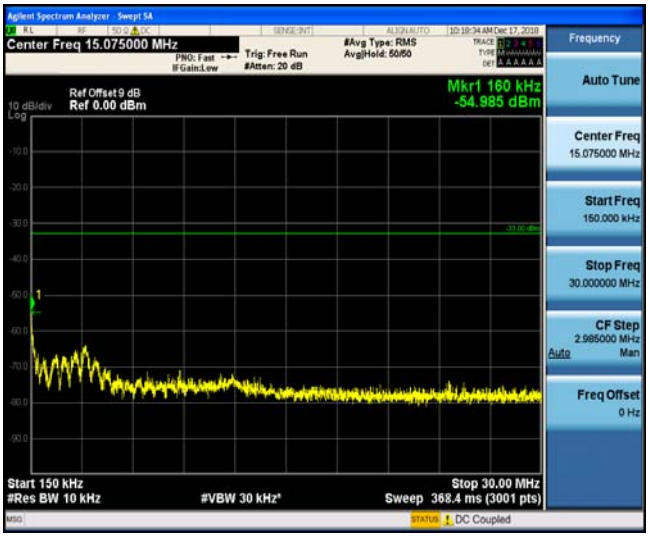

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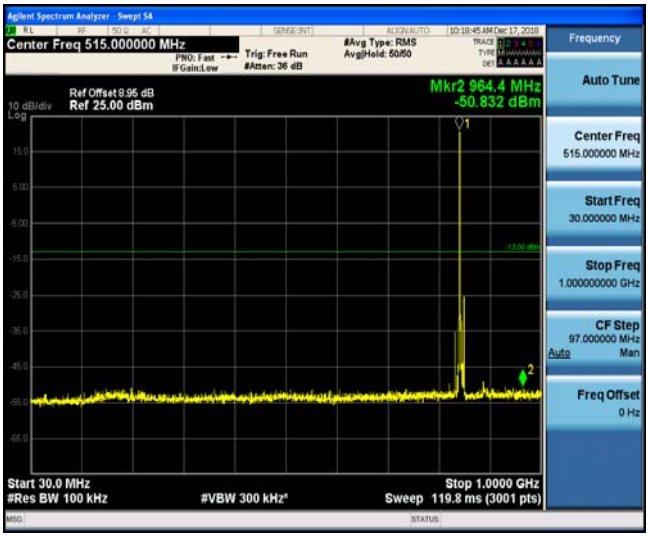

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Band5_5MHz_16QAM_20625_1RB#0

Band5_5MHz_16QAM_20625_1RB#0

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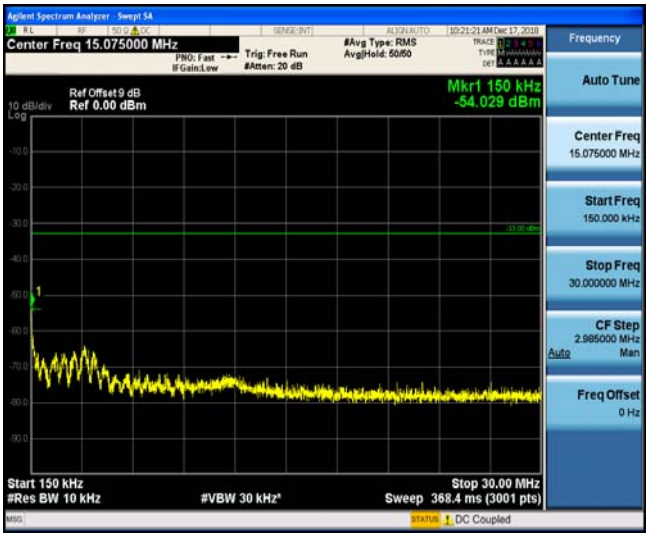

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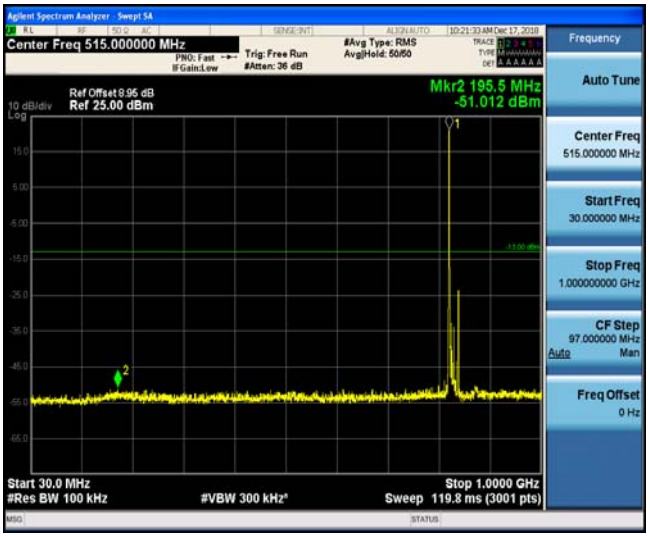

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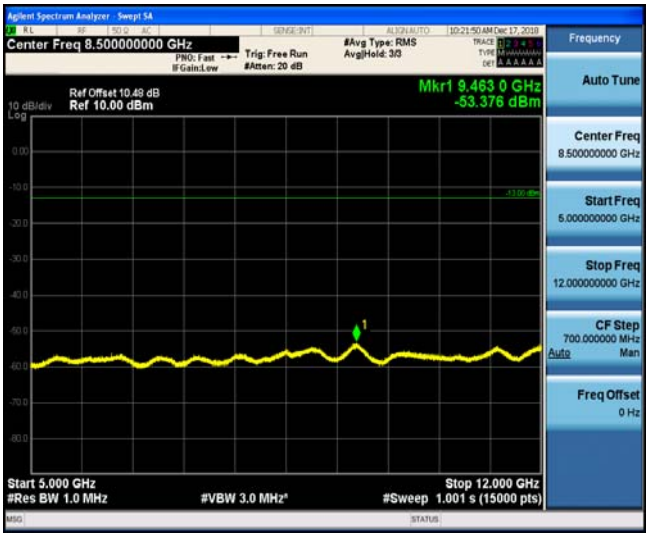

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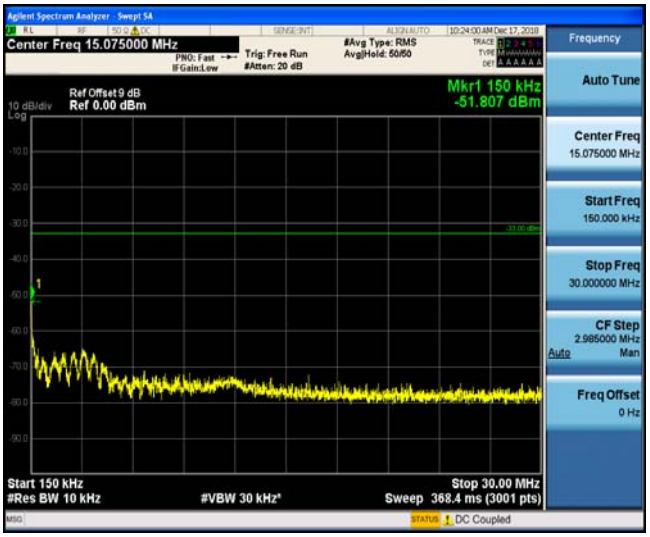

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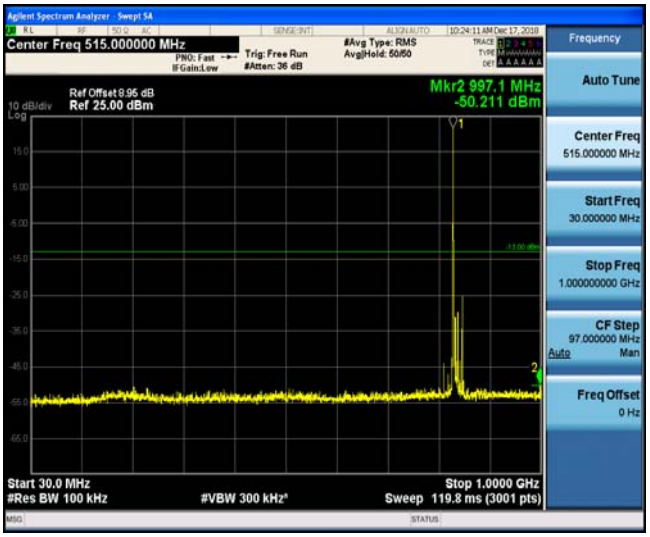

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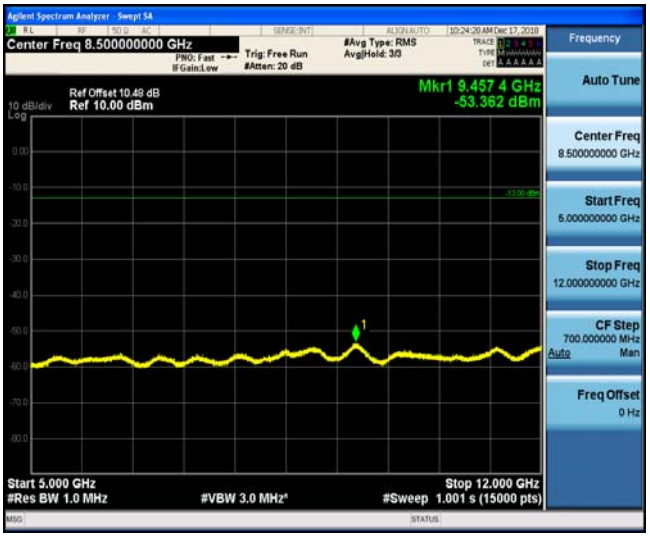

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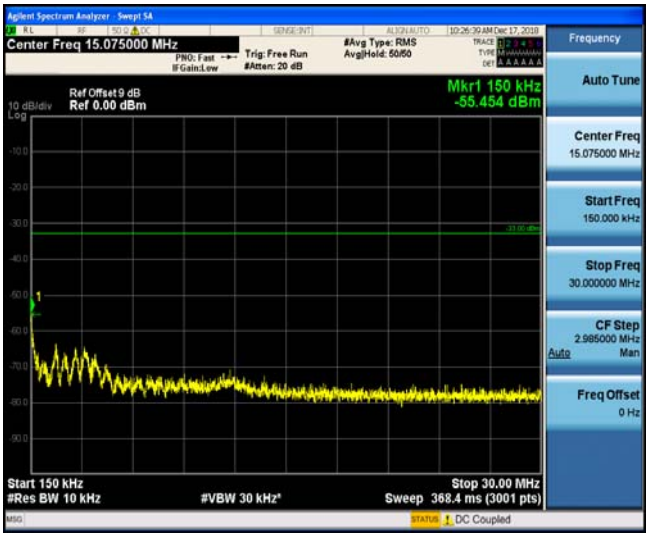

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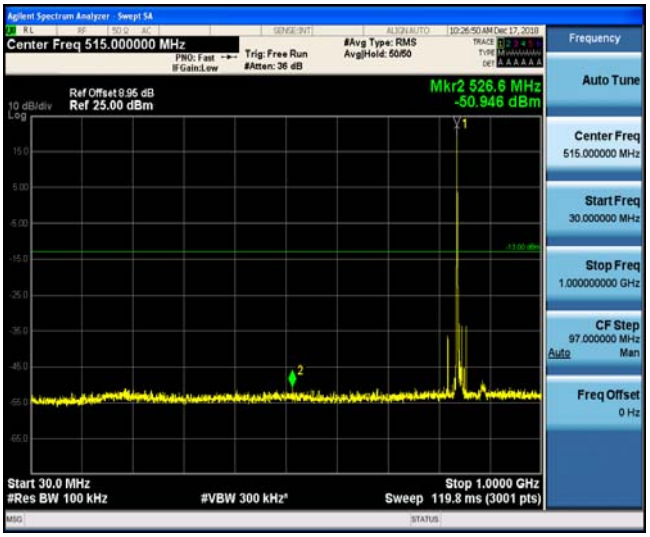

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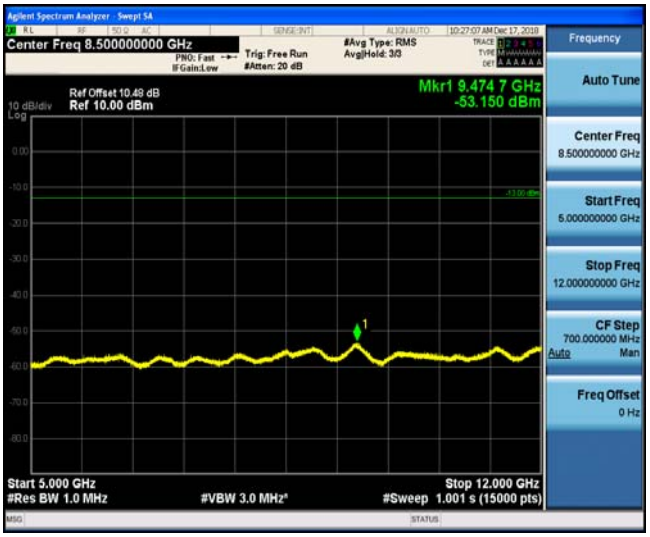

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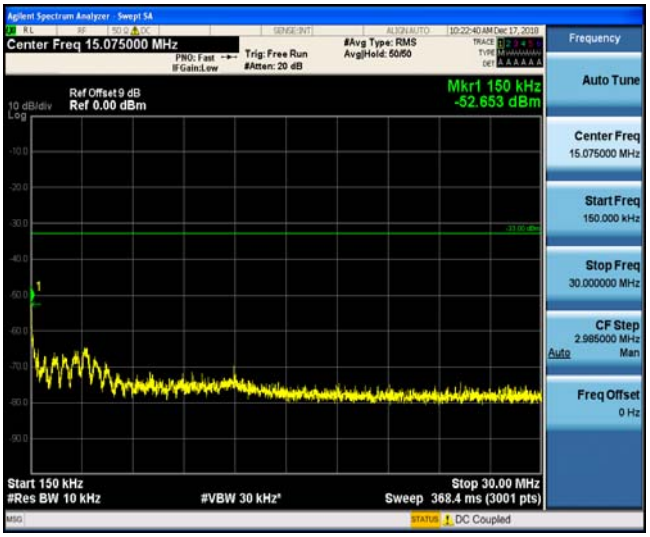

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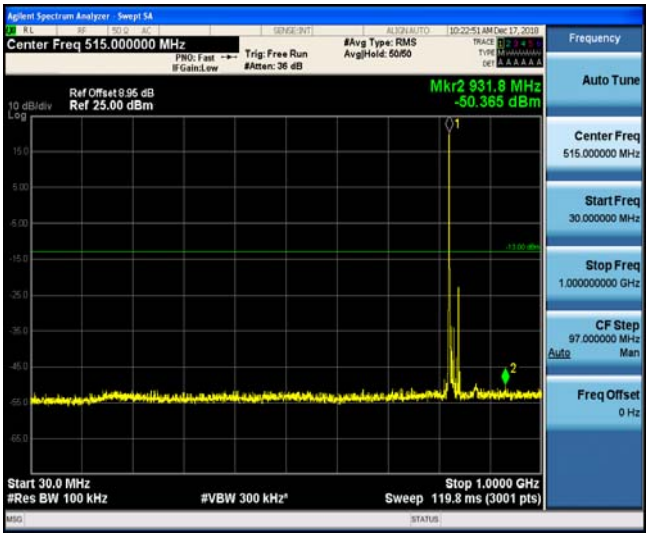

Band5_10MHz_16QAM_20450_1RB#0

Band5_10MHz_16QAM_20450_1RB#0

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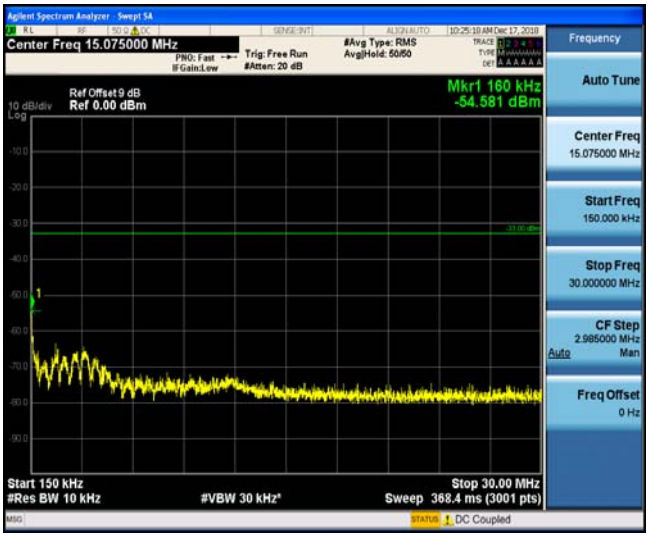

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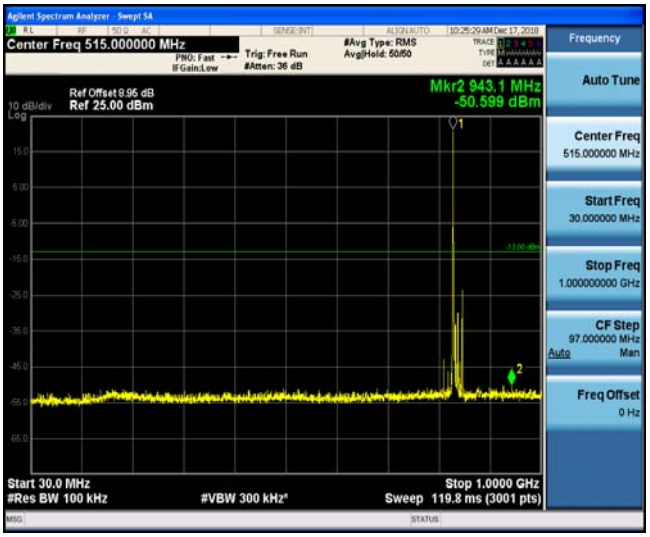

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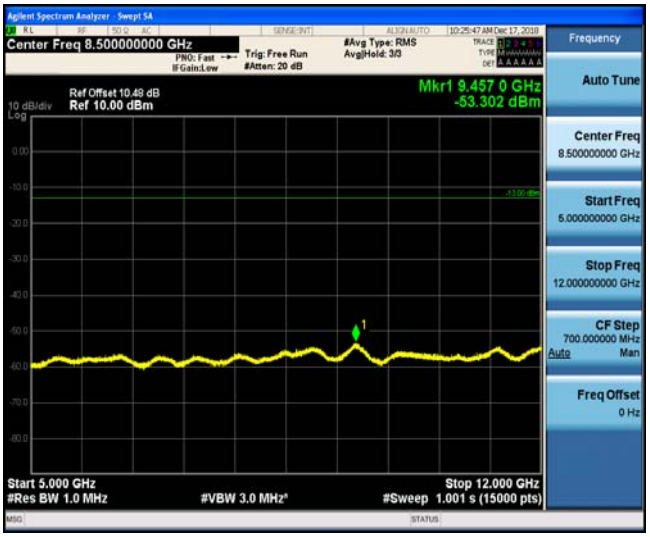

Band5_10MHz_16QAM_20525_1RB#0

Band5_10MHz_16QAM_20600_1RB#0

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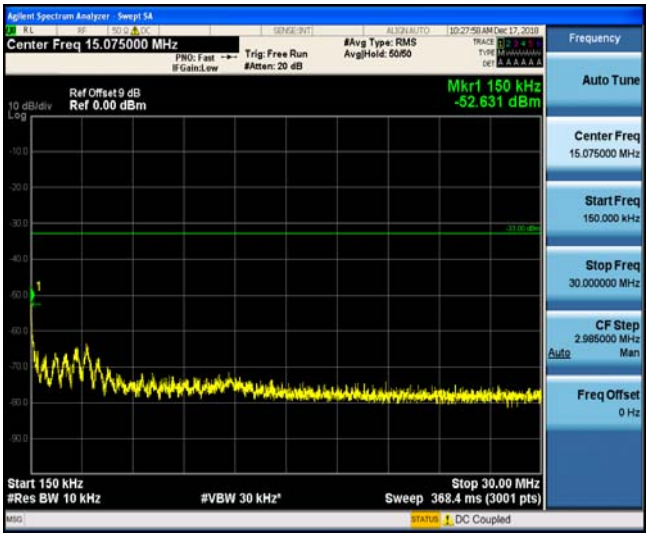

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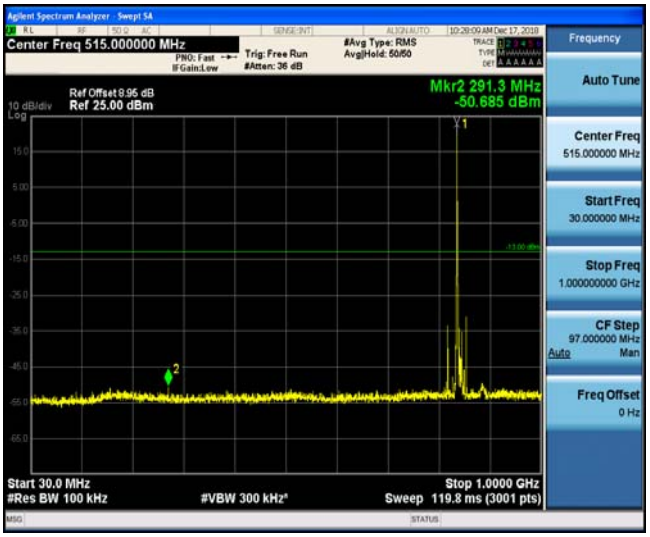

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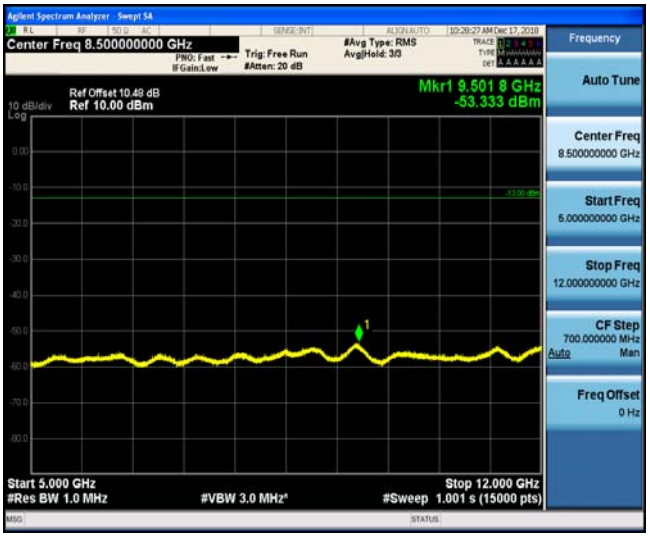

Band5_10MHz_16QAM_20600_1RB#0

Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.86	-0.001043	± 2.5	PASS
		VN	TN	1.15	0.001394	± 2.5	PASS
		VH	TN	1.56	0.001892	± 2.5	PASS
	MCH	VL	TN	4.86	0.005810	± 2.5	PASS
		VN	TN	1.17	0.001399	± 2.5	PASS
		VH	TN	2.6	0.003108	± 2.5	PASS
	HCH	VL	TN	4	0.004715	± 2.5	PASS
		VN	TN	3.93	0.004633	± 2.5	PASS
		VH	TN	-0.5	-0.000589	± 2.5	PASS
16QAM	LCH	VL	TN	-1.25	-0.001516	± 2.5	PASS
		VN	TN	-1.12	-0.001358	± 2.5	PASS
		VH	TN	1.31	0.001588	± 2.5	PASS
	MCH	VL	TN	4.3	0.005140	± 2.5	PASS
		VN	TN	1.53	0.001829	± 2.5	PASS
		VH	TN	0.68	0.000813	± 2.5	PASS
	HCH	VL	TN	0.33	0.000389	± 2.5	PASS
		VN	TN	-1.95	-0.002299	± 2.5	PASS
		VH	TN	-1.52	-0.001792	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.81	-0.000982	± 2.5	PASS
		VN	-20	2.15	0.002607	± 2.5	PASS
		VN	-10	1.66	0.002013	± 2.5	PASS
		VN	0	-1.71	-0.002073	± 2.5	PASS
		VN	10	4.04	0.004899	± 2.5	PASS
		VN	20	1.89	0.002292	± 2.5	PASS
		VN	30	1.69	0.002049	± 2.5	PASS
		VN	40	0.4	0.000485	± 2.5	PASS
		VN	50	4.03	0.004887	± 2.5	PASS
	MCH	VN	-30	2.27	0.002714	± 2.5	PASS
		VN	-20	3	0.003586	± 2.5	PASS

		VN	-10	2.51	0.003001	± 2.5	PASS
		VN	0	4.7	0.005619	± 2.5	PASS
		VN	10	0.16	0.000191	± 2.5	PASS
		VN	20	-1.13	-0.001351	± 2.5	PASS
		VN	30	4.64	0.005547	± 2.5	PASS
		VN	40	0	0.000000	± 2.5	PASS
		VN	50	3.92	0.004686	± 2.5	PASS
	HCH	VN	-30	-0.44	-0.000519	± 2.5	PASS
		VN	-20	0.22	0.000259	± 2.5	PASS
		VN	-10	0.14	0.000165	± 2.5	PASS
		VN	0	4.94	0.005823	± 2.5	PASS
		VN	10	1.45	0.001709	± 2.5	PASS
		VN	20	-1.59	-0.001874	± 2.5	PASS
		VN	30	3.68	0.004338	± 2.5	PASS
		VN	40	4.92	0.005800	± 2.5	PASS
		VN	50	0.61	0.000719	± 2.5	PASS
16QAM	LCH	VN	-30	3.77	0.004571	± 2.5	PASS
		VN	-20	-1.96	-0.002377	± 2.5	PASS
		VN	-10	-0.63	-0.000764	± 2.5	PASS
		VN	0	-0.44	-0.000534	± 2.5	PASS
		VN	10	-1.59	-0.001928	± 2.5	PASS
		VN	20	2.56	0.003104	± 2.5	PASS
		VN	30	1.76	0.002134	± 2.5	PASS
		VN	40	1.62	0.001964	± 2.5	PASS
		VN	50	-1.9	-0.002304	± 2.5	PASS
	MCH	VN	-30	1.31	0.001544	± 2.5	PASS
		VN	-20	2.18	0.002570	± 2.5	PASS
		VN	-10	-0.37	-0.000436	± 2.5	PASS
		VN	0	2.78	0.003277	± 2.5	PASS
		VN	10	-1.75	-0.002063	± 2.5	PASS
		VN	20	1.75	0.002063	± 2.5	PASS
		VN	30	-1.33	-0.001568	± 2.5	PASS
		VN	40	-1.99	-0.002346	± 2.5	PASS
		VN	50	2.71	0.003195	± 2.5	PASS
	HCH	VN	-30	1.17	0.001379	± 2.5	PASS
		VN	-20	0.59	0.000696	± 2.5	PASS
		VN	-10	-0.52	-0.000613	± 2.5	PASS
		VN	0	4.97	0.005859	± 2.5	PASS
		VN	10	2.26	0.002664	± 2.5	PASS
		VN	20	2.23	0.002629	± 2.5	PASS
		VN	30	1.89	0.002228	± 2.5	PASS

		VN	40	3.88	0.004574	± 2.5	PASS
		VN	50	4.37	0.005151	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.11	0.004979	± 2.5	PASS
		VN	TN	-0.53	-0.000642	± 2.5	PASS
		VH	TN	3.97	0.004809	± 2.5	PASS
	MCH	VL	TN	3.82	0.004567	± 2.5	PASS
		VN	TN	3.59	0.004292	± 2.5	PASS
		VH	TN	-0.29	-0.000347	± 2.5	PASS
	HCH	VL	TN	2.5	0.002950	± 2.5	PASS
		VN	TN	-1.87	-0.002206	± 2.5	PASS
		VH	TN	0.88	0.001038	± 2.5	PASS
16QAM	LCH	VL	TN	1.76	0.002132	± 2.5	PASS
		VN	TN	2.82	0.003416	± 2.5	PASS
		VH	TN	-1.35	-0.001635	± 2.5	PASS
	MCH	VL	TN	-0.93	-0.001112	± 2.5	PASS
		VN	TN	-0.44	-0.000526	± 2.5	PASS
		VH	TN	1.02	0.001219	± 2.5	PASS
	HCH	VL	TN	4.07	0.004802	± 2.5	PASS
		VN	TN	1.76	0.002077	± 2.5	PASS
		VH	TN	-0.63	-0.000743	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.76	0.003343	± 2.5	PASS
		VN	-20	4.35	0.005270	± 2.5	PASS
		VN	-10	0.44	0.000533	± 2.5	PASS
		VN	0	-1.91	-0.002314	± 2.5	PASS
		VN	10	3.38	0.004094	± 2.5	PASS
		VN	20	4.37	0.005294	± 2.5	PASS
		VN	30	0.2	0.000242	± 2.5	PASS
		VN	40	-1.29	-0.001563	± 2.5	PASS
		VN	50	-1.97	-0.002386	± 2.5	PASS
	MCH	VN	-30	2.6	0.003108	± 2.5	PASS
		VN	-20	1.39	0.001662	± 2.5	PASS
		VN	-10	0.23	0.000275	± 2.5	PASS

		VN	0	-1.32	-0.001578	± 2.5	PASS
		VN	10	-0.52	-0.000622	± 2.5	PASS
		VN	20	-1.35	-0.001614	± 2.5	PASS
		VN	30	0.94	0.001124	± 2.5	PASS
		VN	40	0.24	0.000287	± 2.5	PASS
		VN	50	3.32	0.003969	± 2.5	PASS
	HCH	VN	-30	2.61	0.003080	± 2.5	PASS
		VN	-20	-1.67	-0.001971	± 2.5	PASS
		VN	-10	4.1	0.004838	± 2.5	PASS
		VN	0	0.96	0.001133	± 2.5	PASS
		VN	10	3.13	0.003693	± 2.5	PASS
		VN	20	0.01	0.000012	± 2.5	PASS
		VN	30	1.59	0.001876	± 2.5	PASS
		VN	40	2.25	0.002655	± 2.5	PASS
		VN	50	-0.49	-0.000578	± 2.5	PASS
16QAM	LCH	VN	-30	3.63	0.004340	± 2.5	PASS
		VN	-20	2.49	0.002977	± 2.5	PASS
		VN	-10	1.91	0.002283	± 2.5	PASS
		VN	0	2.44	0.002917	± 2.5	PASS
		VN	10	-0.41	-0.000490	± 2.5	PASS
		VN	20	4.13	0.004937	± 2.5	PASS
		VN	30	-1.38	-0.001650	± 2.5	PASS
		VN	40	3.72	0.004447	± 2.5	PASS
		VN	50	-0.46	-0.000550	± 2.5	PASS
	MCH	VN	-30	-1.37	-0.001617	± 2.5	PASS
		VN	-20	0.15	0.000177	± 2.5	PASS
		VN	-10	1.37	0.001617	± 2.5	PASS
		VN	0	1.34	0.001581	± 2.5	PASS
		VN	10	4.96	0.005853	± 2.5	PASS
		VN	20	-1.09	-0.001286	± 2.5	PASS
		VN	30	1.26	0.001487	± 2.5	PASS
		VN	40	-0.7	-0.000826	± 2.5	PASS
		VN	50	3.01	0.003552	± 2.5	PASS
	HCH	VN	-30	2.91	0.003434	± 2.5	PASS
		VN	-20	-0.71	-0.000838	± 2.5	PASS
		VN	-10	4.17	0.004920	± 2.5	PASS
		VN	0	-0.48	-0.000566	± 2.5	PASS
		VN	10	2.29	0.002702	± 2.5	PASS
		VN	20	-0.18	-0.000212	± 2.5	PASS
		VN	30	2.23	0.002631	± 2.5	PASS
		VN	40	3.12	0.003681	± 2.5	PASS

		VN	50	1.11	0.001310	± 2.5	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.05	-0.000060	± 2.5	PASS
		VN	TN	-1.12	-0.001355	± 2.5	PASS
		VH	TN	3.81	0.004610	± 2.5	PASS
	MCH	VL	TN	-1.39	-0.001662	± 2.5	PASS
		VN	TN	3.75	0.004483	± 2.5	PASS
		VH	TN	1.04	0.001243	± 2.5	PASS
	HCH	VL	TN	2.95	0.003485	± 2.5	PASS
		VN	TN	2.57	0.003036	± 2.5	PASS
		VH	TN	0.01	0.000012	± 2.5	PASS
16QAM	LCH	VL	TN	1	0.001210	± 2.5	PASS
		VN	TN	2.54	0.003073	± 2.5	PASS
		VH	TN	0.76	0.000920	± 2.5	PASS
	MCH	VL	TN	2.69	0.003216	± 2.5	PASS
		VN	TN	2.74	0.003276	± 2.5	PASS
		VH	TN	-1.61	-0.001925	± 2.5	PASS
	HCH	VL	TN	1.79	0.002115	± 2.5	PASS
		VN	TN	2.08	0.002457	± 2.5	PASS
		VH	TN	-0.07	-0.000083	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.84	0.004646	± 2.5	PASS
		VN	-20	-0.4	-0.000484	± 2.5	PASS
		VN	-10	3.21	0.003884	± 2.5	PASS
		VN	0	-0.58	-0.000702	± 2.5	PASS
		VN	10	1.68	0.002033	± 2.5	PASS
		VN	20	3.33	0.004029	± 2.5	PASS
		VN	30	0.36	0.000436	± 2.5	PASS
		VN	40	4.47	0.005408	± 2.5	PASS
		VN	50	3.23	0.003908	± 2.5	PASS
	MCH	VN	-30	0.07	0.000084	± 2.5	PASS
		VN	-20	0.13	0.000155	± 2.5	PASS
		VN	-10	-0.41	-0.000490	± 2.5	PASS
		VN	0	-1.21	-0.001447	± 2.5	PASS

		VN	10	-1.17	-0.001399	± 2.5	PASS
		VN	20	-0.49	-0.000586	± 2.5	PASS
		VN	30	-0.65	-0.000777	± 2.5	PASS
		VN	40	0.29	0.000347	± 2.5	PASS
		VN	50	-0.95	-0.001136	± 2.5	PASS
	HCH	VN	-30	-0.39	-0.000461	± 2.5	PASS
		VN	-20	0.75	0.000886	± 2.5	PASS
		VN	-10	1.01	0.001193	± 2.5	PASS
		VN	0	3.19	0.003768	± 2.5	PASS
		VN	10	2.13	0.002516	± 2.5	PASS
		VN	20	4.92	0.005812	± 2.5	PASS
		VN	30	0.59	0.000697	± 2.5	PASS
		VN	40	2.1	0.002481	± 2.5	PASS
		VN	50	3.82	0.004513	± 2.5	PASS
16QAM	LCH	VN	-30	0.96	0.001148	± 2.5	PASS
		VN	-20	4.84	0.005786	± 2.5	PASS
		VN	-10	3.78	0.004519	± 2.5	PASS
		VN	0	1.98	0.002367	± 2.5	PASS
		VN	10	2.8	0.003347	± 2.5	PASS
		VN	20	4.06	0.004854	± 2.5	PASS
		VN	30	2.33	0.002785	± 2.5	PASS
		VN	40	2.56	0.003060	± 2.5	PASS
		VN	50	3.32	0.003969	± 2.5	PASS
	MCH	VN	-30	2.3	0.002717	± 2.5	PASS
		VN	-20	1.89	0.002233	± 2.5	PASS
		VN	-10	-1.03	-0.001217	± 2.5	PASS
		VN	0	4.69	0.005540	± 2.5	PASS
		VN	10	4.78	0.005647	± 2.5	PASS
		VN	20	1.18	0.001394	± 2.5	PASS
		VN	30	-0.59	-0.000697	± 2.5	PASS
		VN	40	0.75	0.000886	± 2.5	PASS
		VN	50	3.51	0.004146	± 2.5	PASS
	HCH	VN	-30	-0.05	-0.000059	± 2.5	PASS
		VN	-20	3.81	0.004501	± 2.5	PASS
		VN	-10	-1.04	-0.001229	± 2.5	PASS
		VN	0	3.33	0.003934	± 2.5	PASS
		VN	10	3.22	0.003804	± 2.5	PASS
		VN	20	4.09	0.004832	± 2.5	PASS
		VN	30	2.16	0.002552	± 2.5	PASS
		VN	40	1.2	0.001418	± 2.5	PASS
		VN	50	-1.8	-0.002126	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	1.73	0.002087	± 2.5	PASS
		VN	TN	3.08	0.003715	± 2.5	PASS
		VH	TN	3.45	0.004162	± 2.5	PASS
	MCH	VL	TN	3.41	0.004077	± 2.5	PASS
		VN	TN	1.26	0.001506	± 2.5	PASS
		VH	TN	3.29	0.003933	± 2.5	PASS
	HCH	VL	TN	1.33	0.001576	± 2.5	PASS
		VN	TN	1.5	0.001777	± 2.5	PASS
		VH	TN	4.98	0.005900	± 2.5	PASS
16QAM	LCH	VL	TN	3.7	0.004463	± 2.5	PASS
		VN	TN	4.42	0.005332	± 2.5	PASS
		VH	TN	-1.5	-0.001809	± 2.5	PASS
	MCH	VL	TN	4.7	0.005619	± 2.5	PASS
		VN	TN	4.78	0.005714	± 2.5	PASS
		VH	TN	2.34	0.002797	± 2.5	PASS
	HCH	VL	TN	4.65	0.005509	± 2.5	PASS
		VN	TN	4.79	0.005675	± 2.5	PASS
		VH	TN	3.24	0.003839	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-1.6	-0.001930	± 2.5	PASS
		VN	-20	4.53	0.005464	± 2.5	PASS
		VN	-10	1.53	0.001846	± 2.5	PASS
		VN	0	-0.58	-0.000700	± 2.5	PASS
		VN	10	4.83	0.005826	± 2.5	PASS
		VN	20	-1.53	-0.001846	± 2.5	PASS
		VN	30	3.79	0.004572	± 2.5	PASS
		VN	40	-0.77	-0.000929	± 2.5	PASS
		VN	50	1.87	0.002256	± 2.5	PASS
	MCH	VN	-30	2.05	0.002451	± 2.5	PASS
		VN	-20	-0.08	-0.000096	± 2.5	PASS
		VN	-10	0.03	0.000036	± 2.5	PASS
		VN	0	-1.62	-0.001937	± 2.5	PASS
		VN	10	1.58	0.001889	± 2.5	PASS
		VN	20	2.45	0.002929	± 2.5	PASS

		VN	30	1.74	0.002080	± 2.5	PASS
		VN	40	2.53	0.003025	± 2.5	PASS
		VN	50	3.53	0.004220	± 2.5	PASS
	HCH	VN	-30	4.33	0.005130	± 2.5	PASS
		VN	-20	2.13	0.002524	± 2.5	PASS
		VN	-10	3.96	0.004692	± 2.5	PASS
		VN	0	0.91	0.001078	± 2.5	PASS
		VN	10	4.98	0.005900	± 2.5	PASS
		VN	20	-0.26	-0.000308	± 2.5	PASS
		VN	30	3.52	0.004171	± 2.5	PASS
		VN	40	4.64	0.005498	± 2.5	PASS
		VN	50	-0.59	-0.000699	± 2.5	PASS
QPSK	LCH	VN	-30	2.29	0.002738	± 2.5	PASS
		VN	-20	0.85	0.001016	± 2.5	PASS
		VN	-10	-0.67	-0.000801	± 2.5	PASS
		VN	0	2.4	0.002869	± 2.5	PASS
		VN	10	1.04	0.001243	± 2.5	PASS
		VN	20	-1.91	-0.002283	± 2.5	PASS
		VN	30	-0.18	-0.000215	± 2.5	PASS
		VN	40	3	0.003586	± 2.5	PASS
		VN	50	3.57	0.004268	± 2.5	PASS
	MCH	VN	-30	-0.75	-0.000889	± 2.5	PASS
		VN	-20	4.07	0.004822	± 2.5	PASS
		VN	-10	1.14	0.001351	± 2.5	PASS
		VN	0	-0.95	-0.001126	± 2.5	PASS
		VN	10	4.37	0.005178	± 2.5	PASS
		VN	20	2.96	0.003507	± 2.5	PASS
		VN	30	2.61	0.003092	± 2.5	PASS
		VN	40	4.18	0.004953	± 2.5	PASS
		VN	50	0.99	0.001173	± 2.5	PASS
	HCH	VN	-30	3.2	0.003791	± 2.5	PASS
		VN	-20	-0.62	-0.000735	± 2.5	PASS
		VN	-10	4.26	0.005047	± 2.5	PASS
		VN	0	3.11	0.003685	± 2.5	PASS
		VN	10	4.21	0.004988	± 2.5	PASS
		VN	20	0.41	0.000486	± 2.5	PASS
		VN	30	4.3	0.005095	± 2.5	PASS
		VN	40	3.7	0.004384	± 2.5	PASS
		VN	50	2.11	0.002500	± 2.5	PASS