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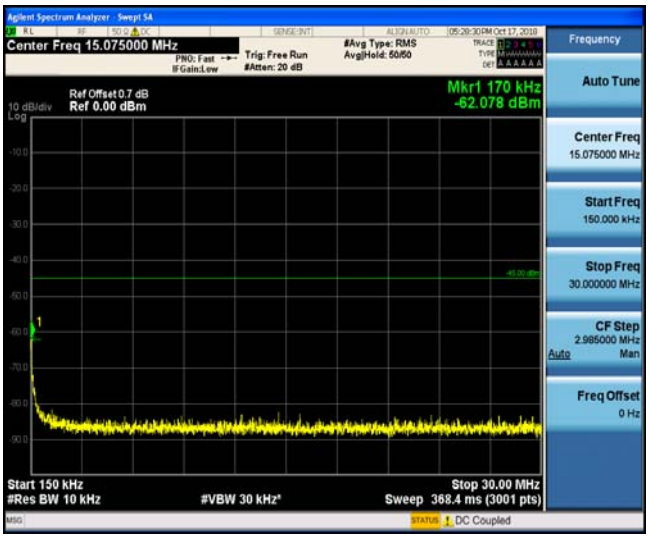

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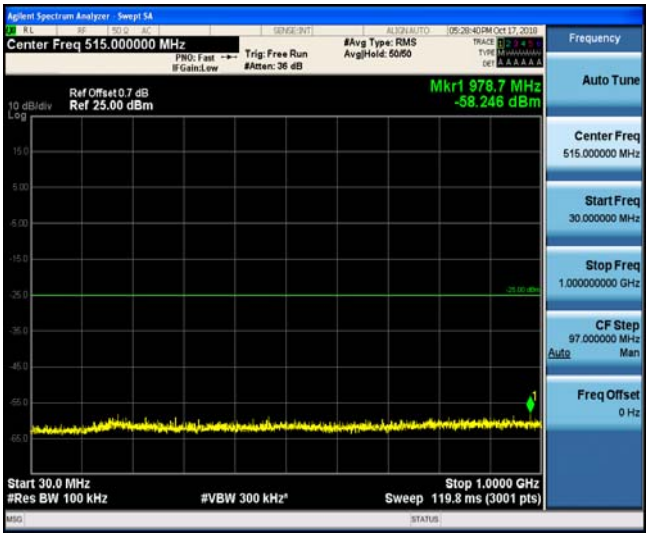

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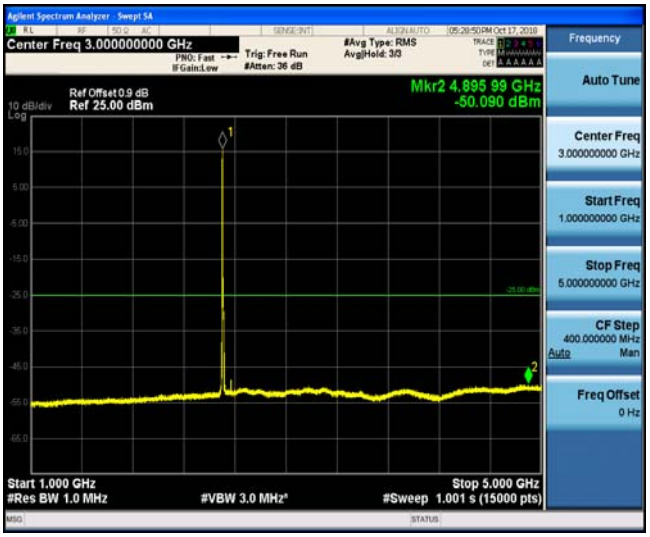

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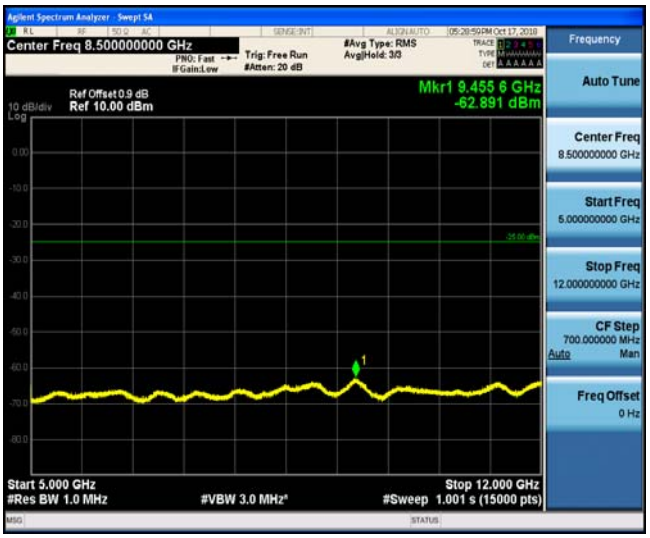

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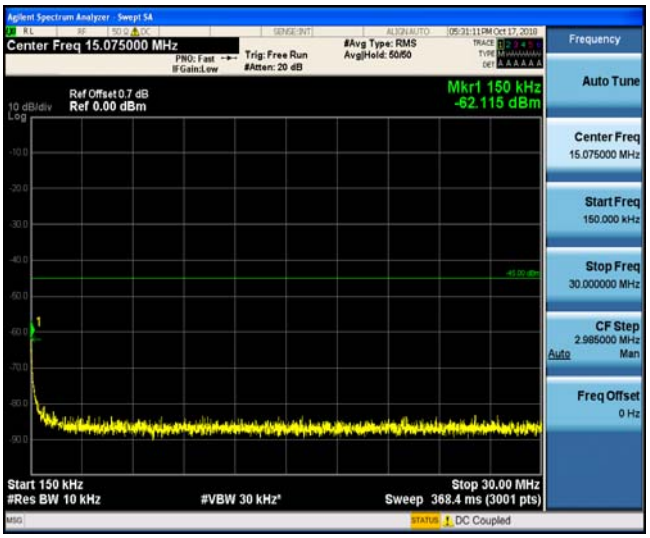

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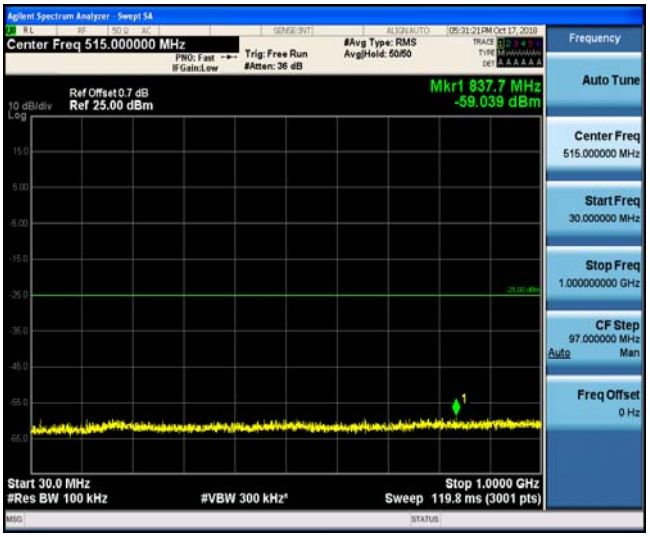

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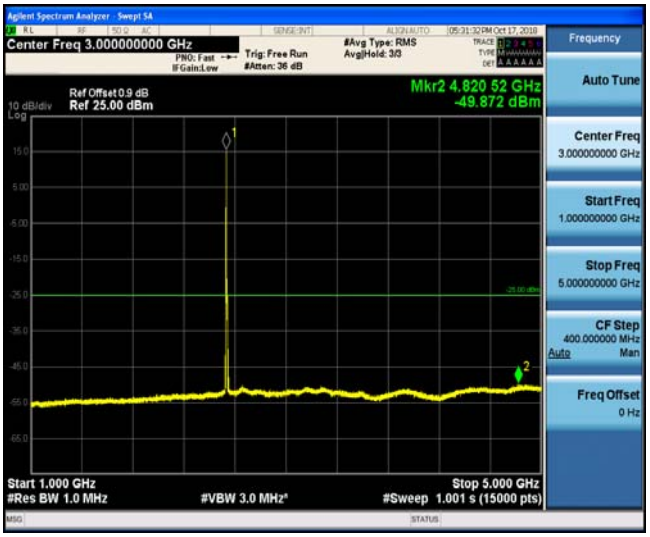

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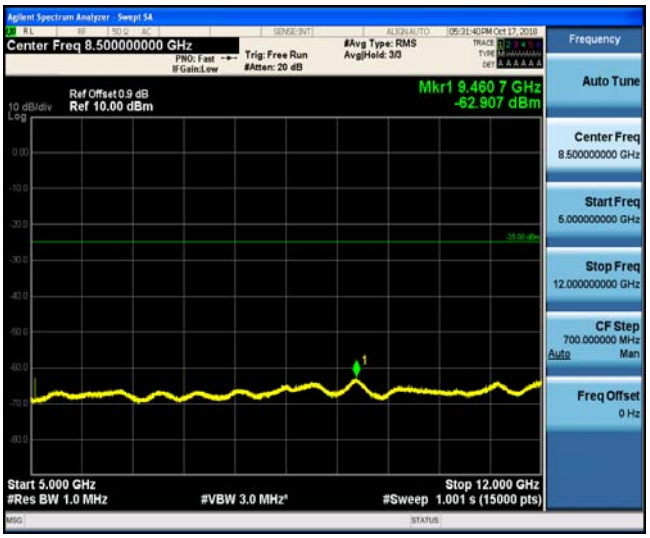

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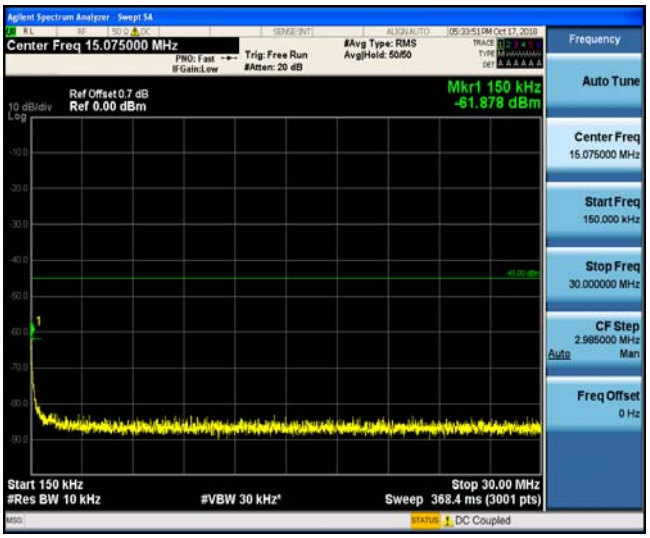

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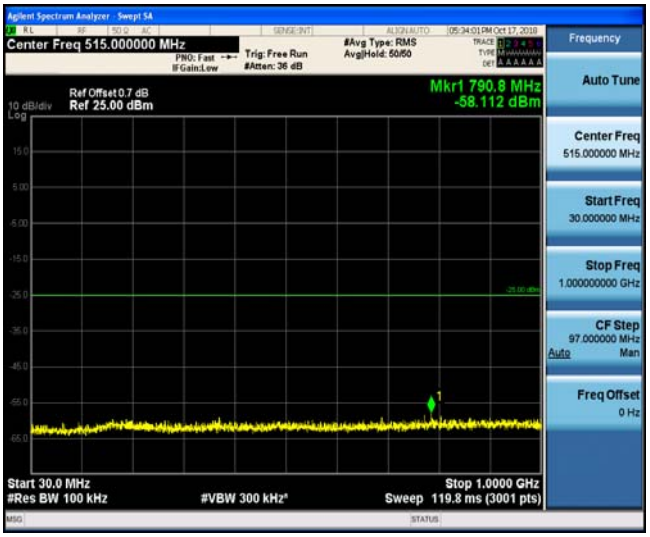

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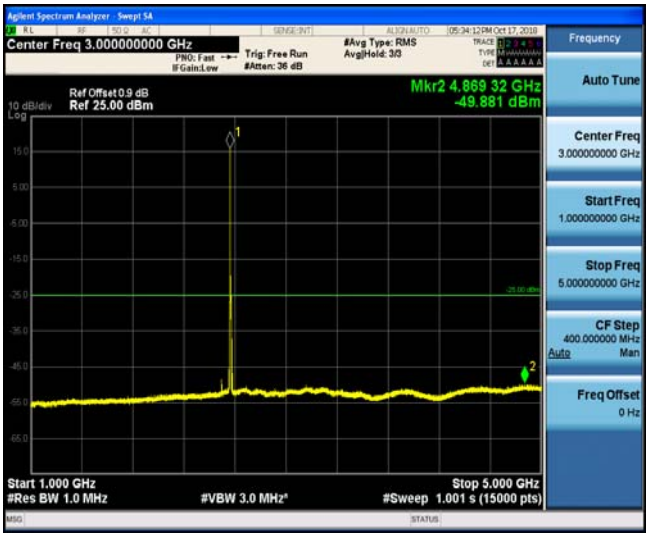

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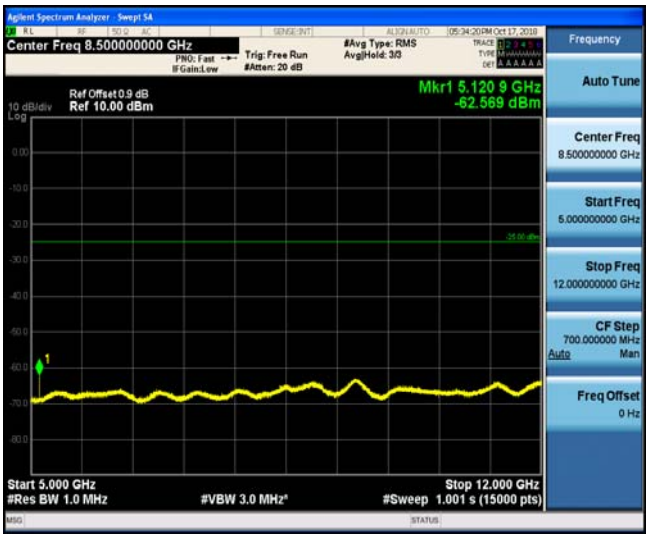

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Band7_10MHz_16QAM_20800_1RB#0

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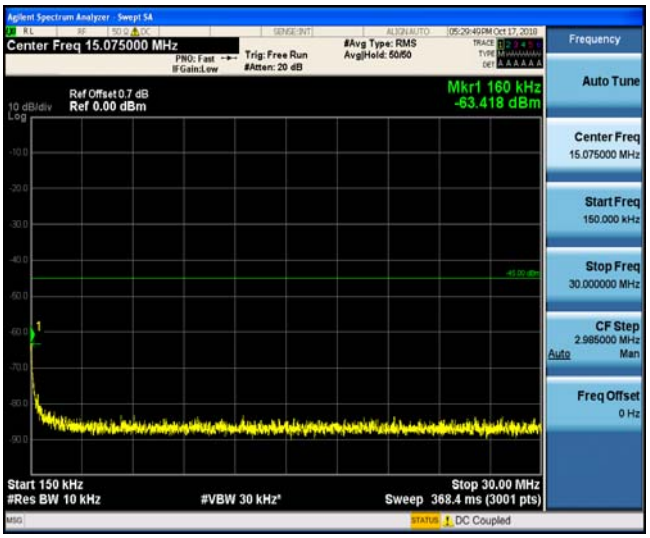

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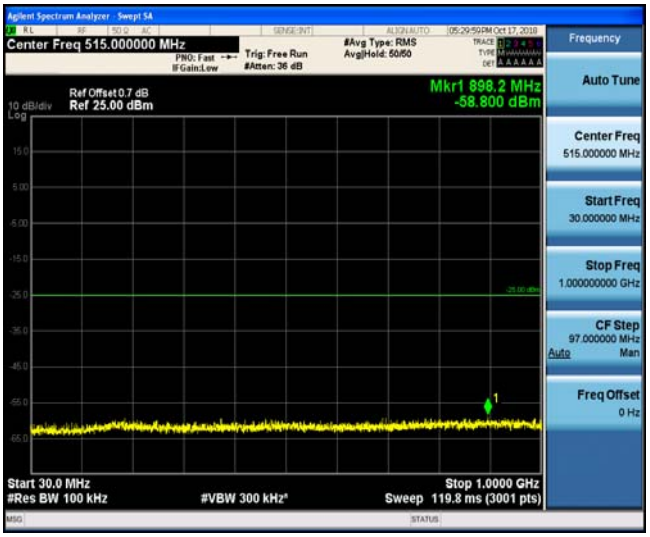

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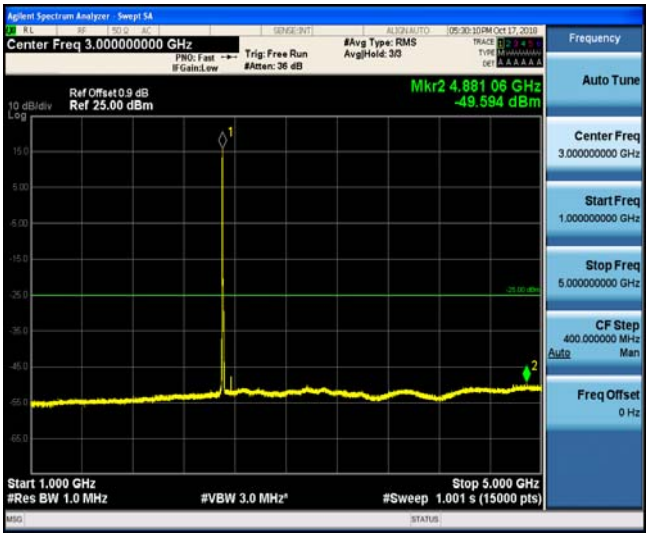

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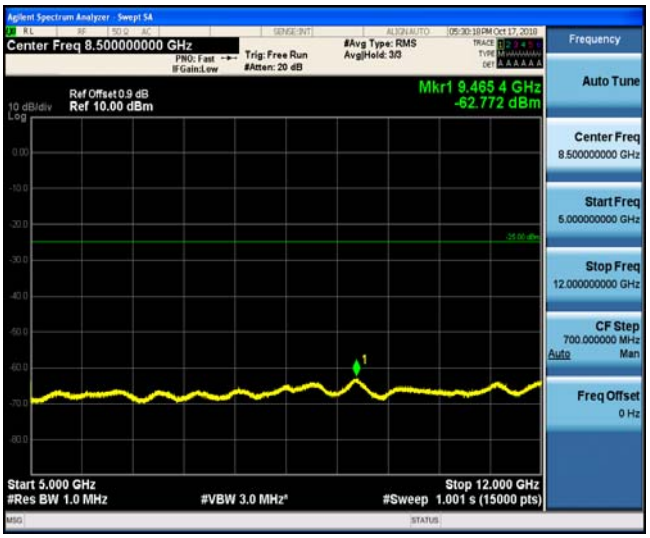

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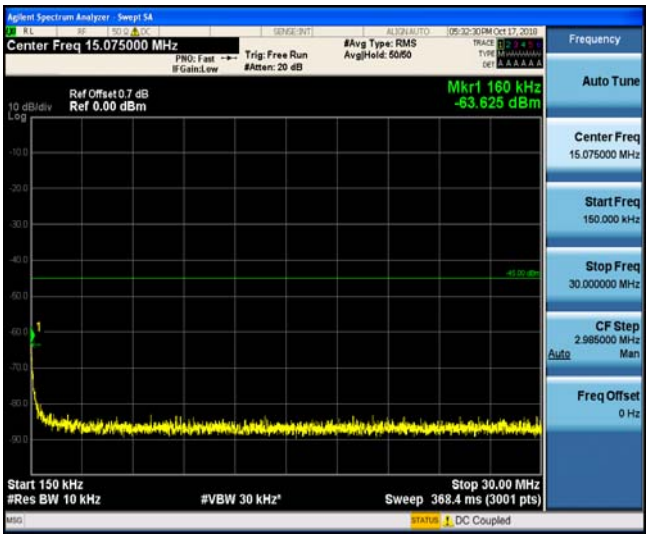

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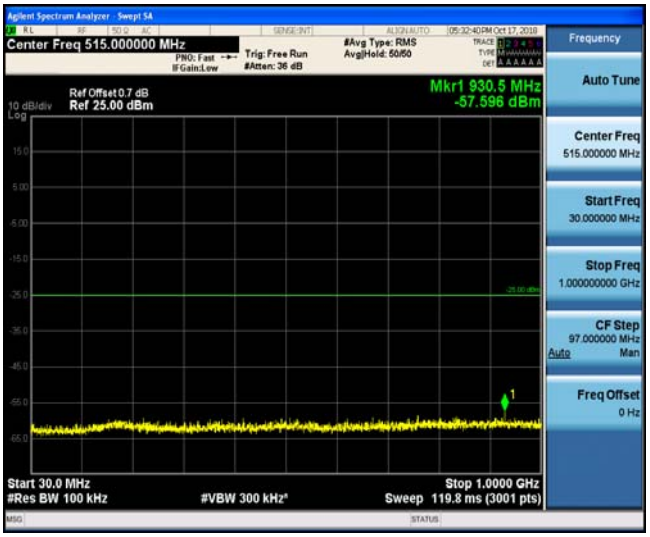

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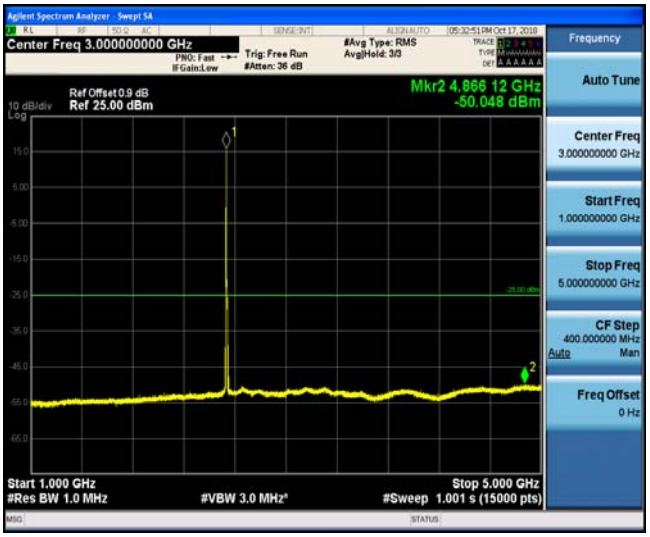

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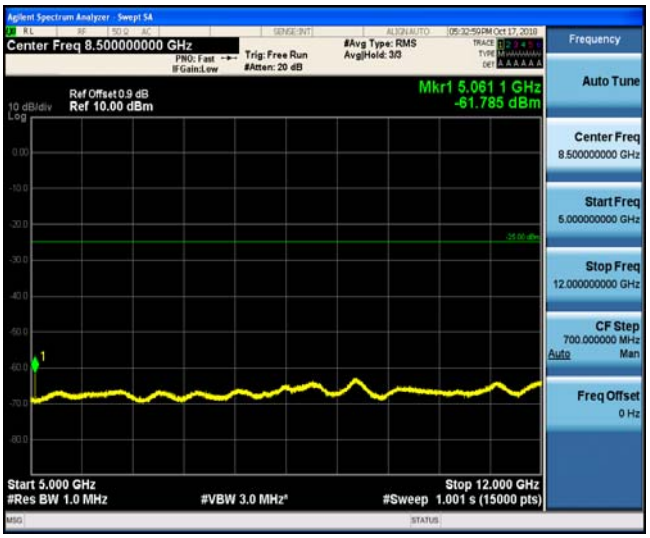

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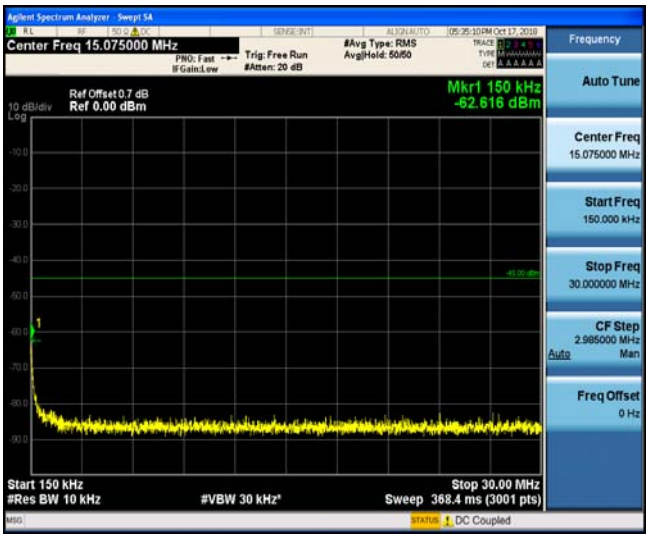

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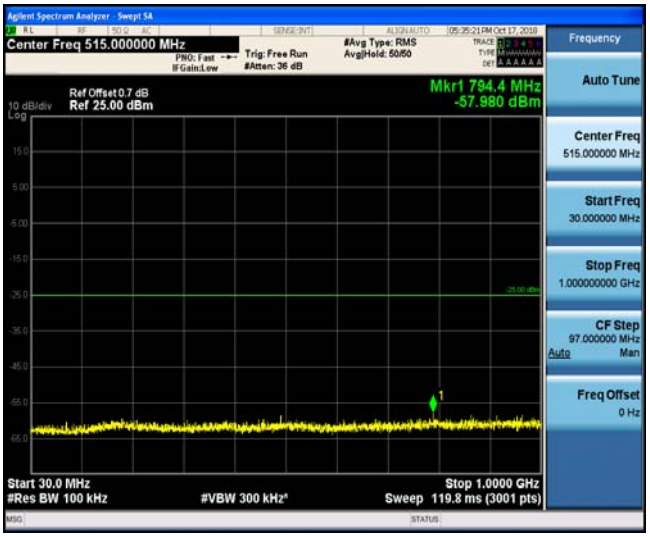

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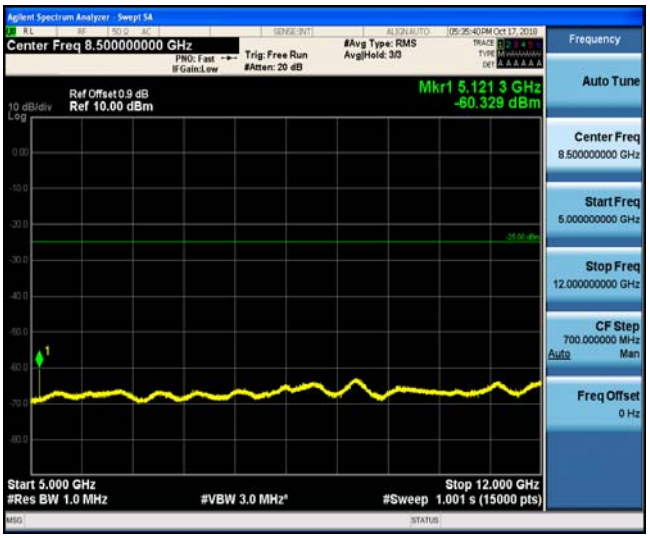

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Band7_15MHz_QPSK_20825_1RB#0

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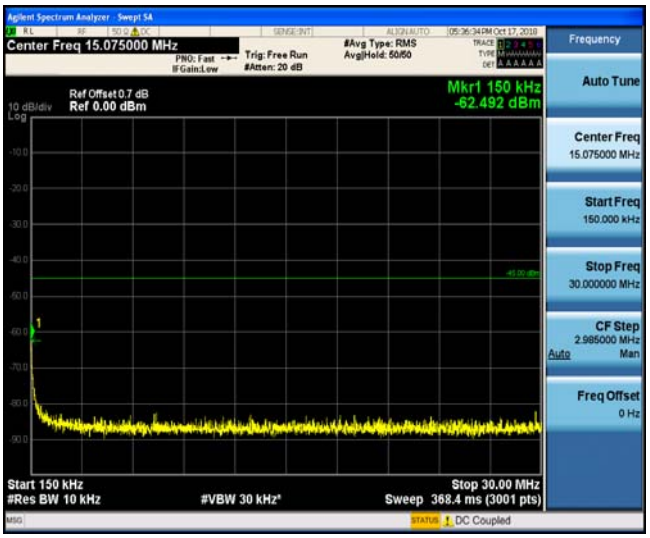

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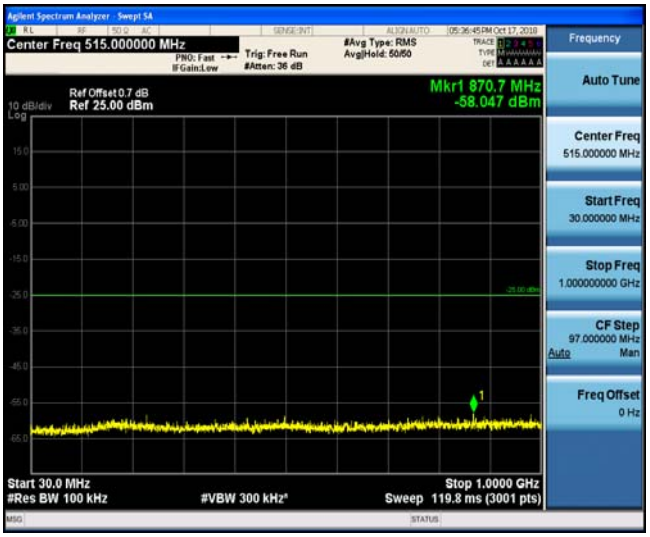

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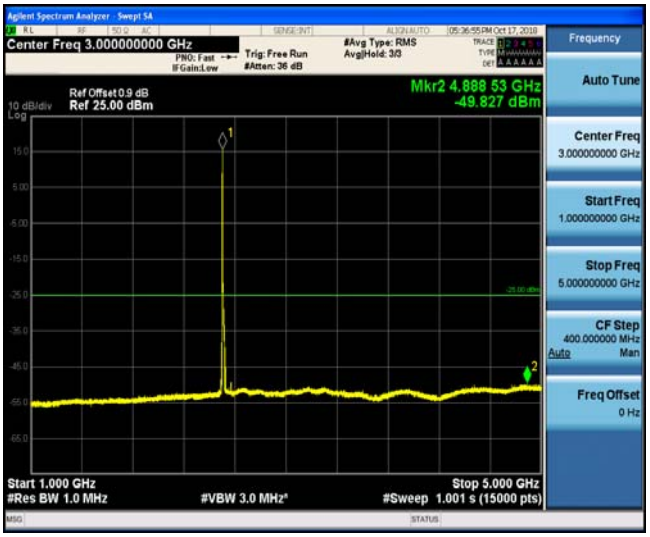

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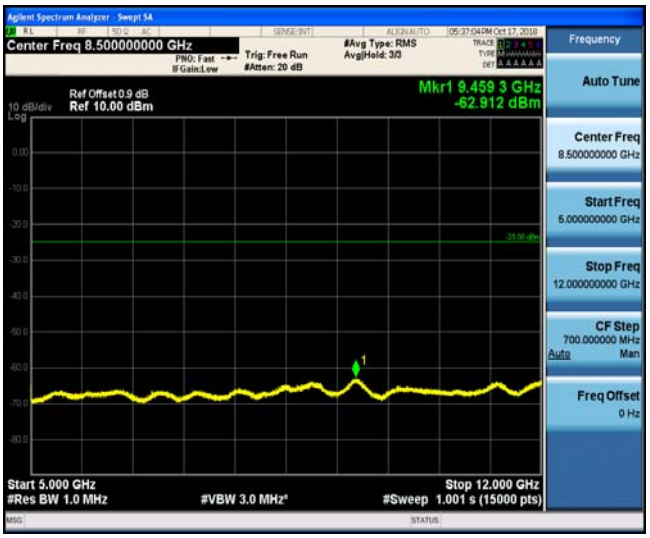

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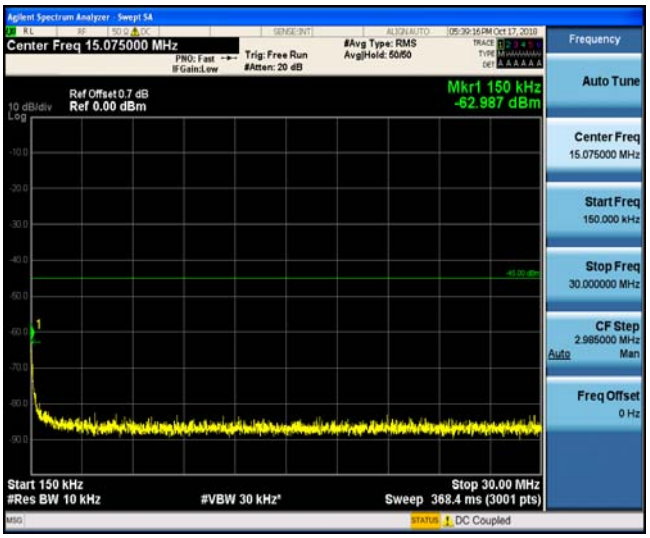

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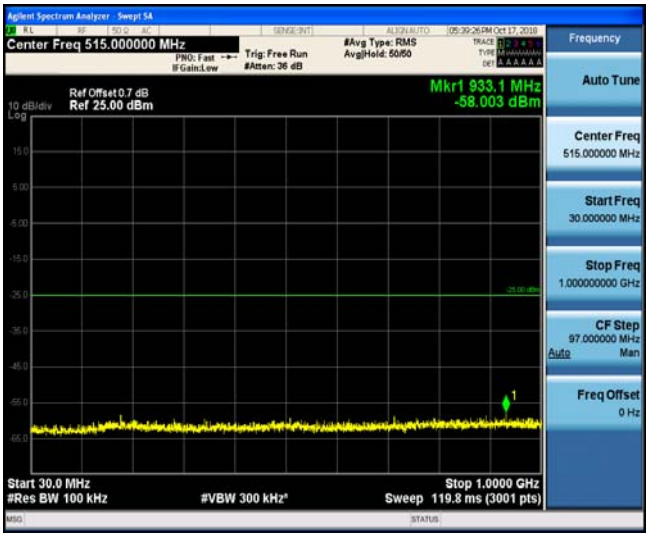

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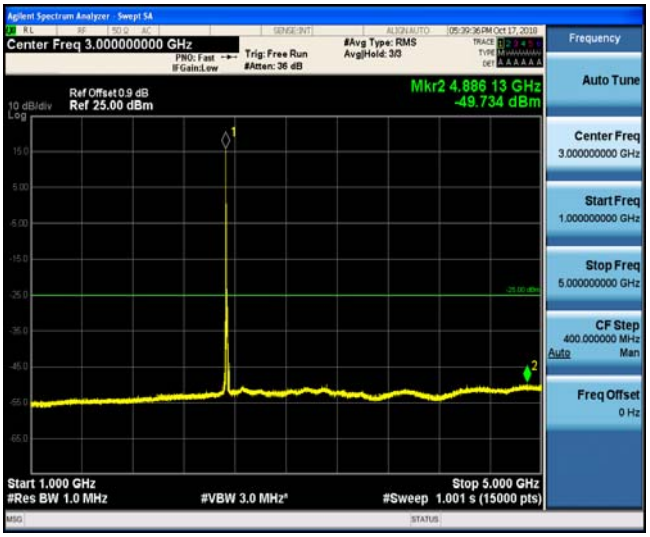

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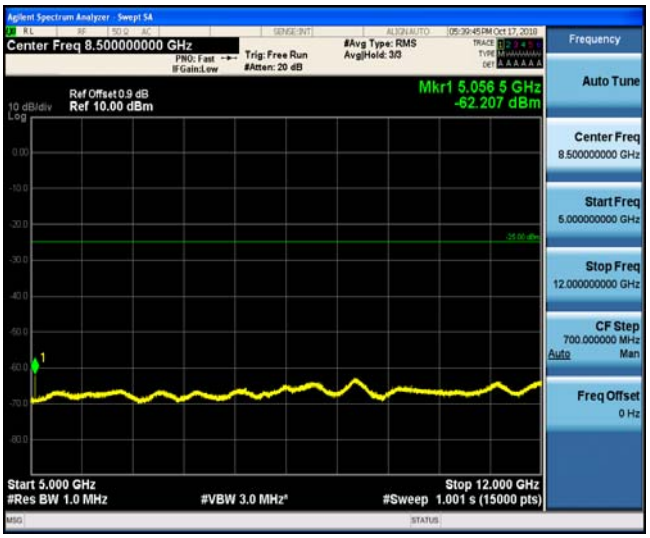

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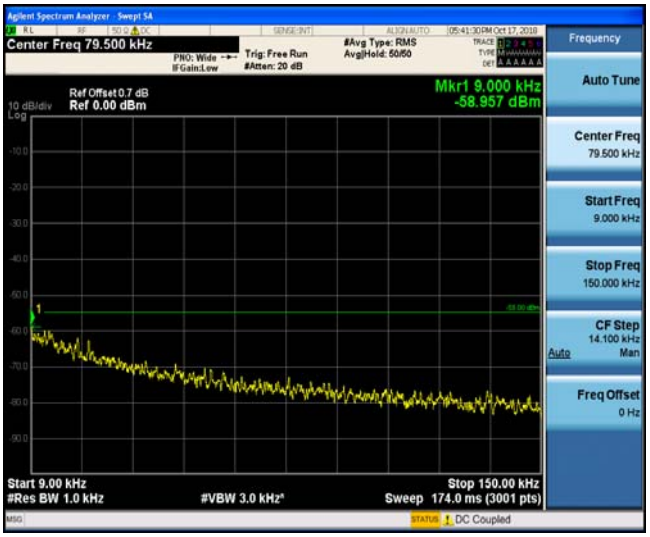

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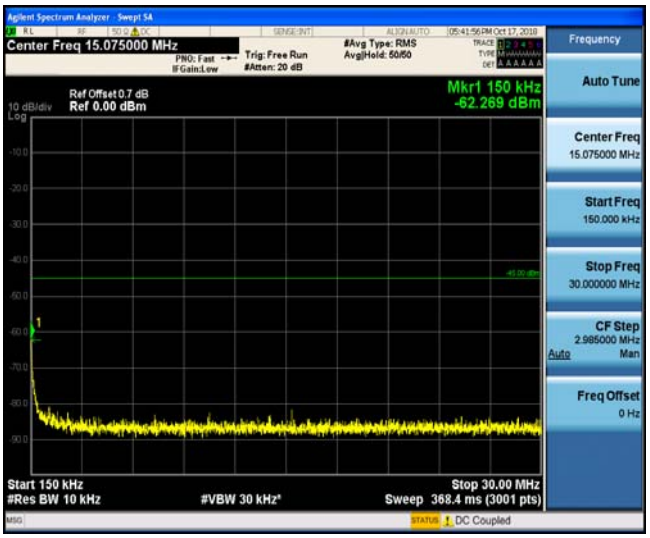

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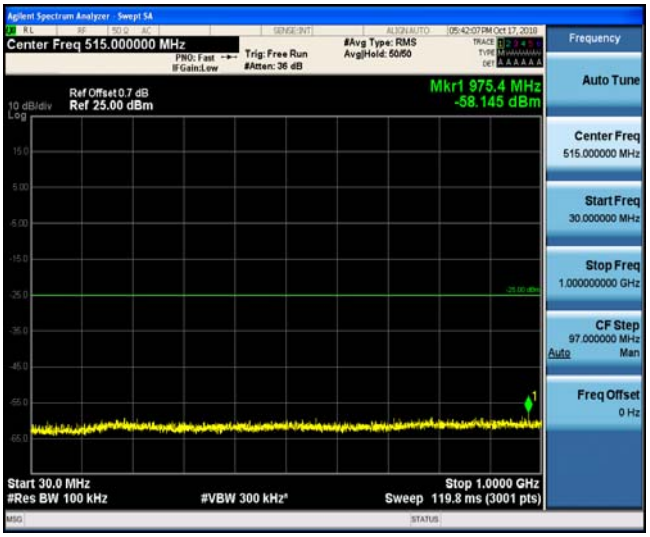

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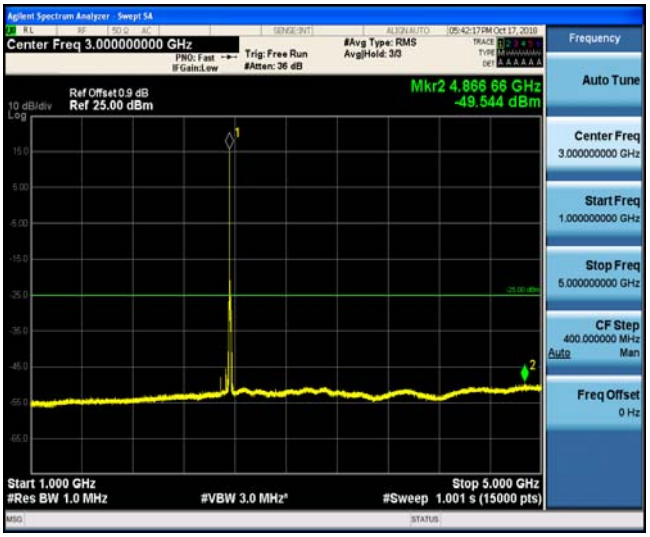

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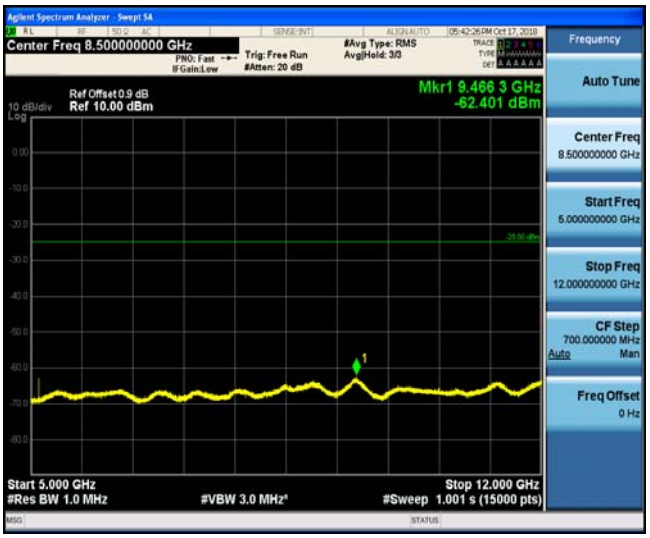

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Band7_15MHz_16QAM_20825_1RB#0

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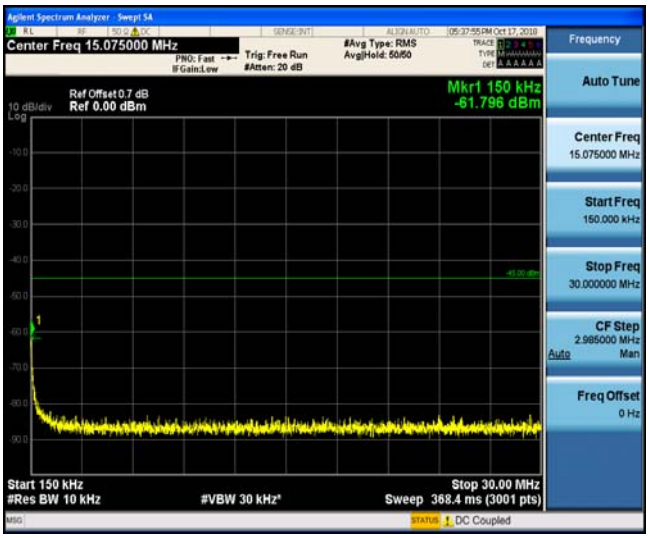

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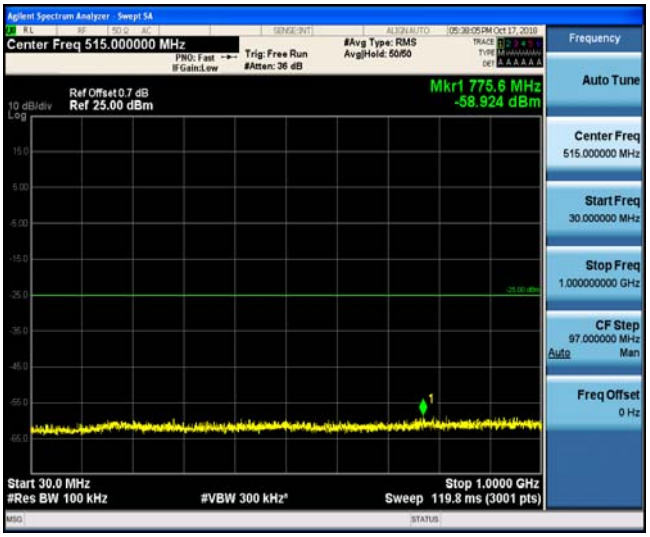

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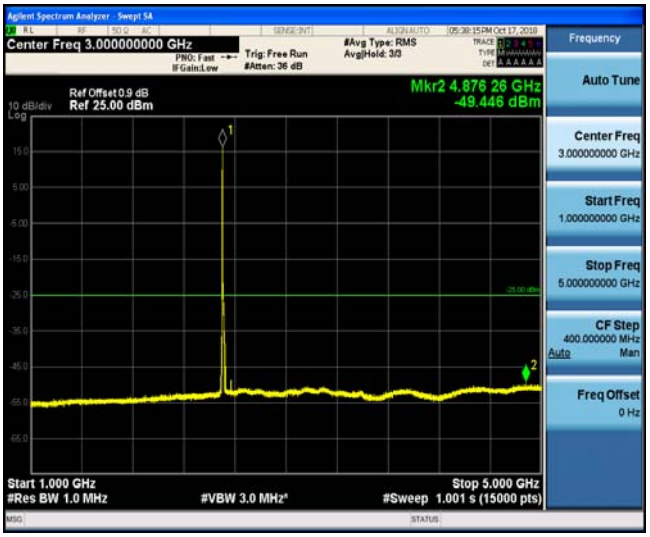

Band7_15MHz_16QAM_20825_1RB#0

Band7_15MHz_16QAM_20825_1RB#0

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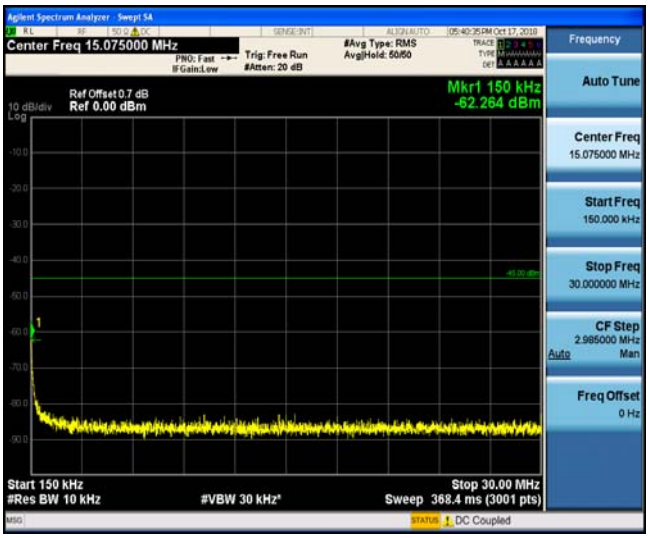

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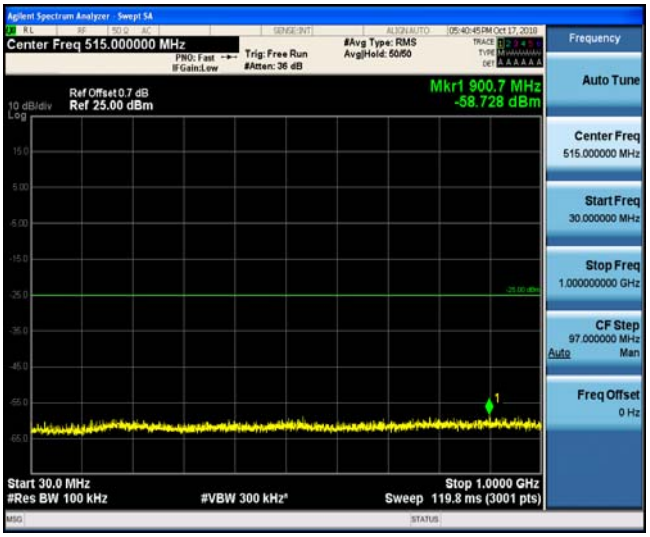

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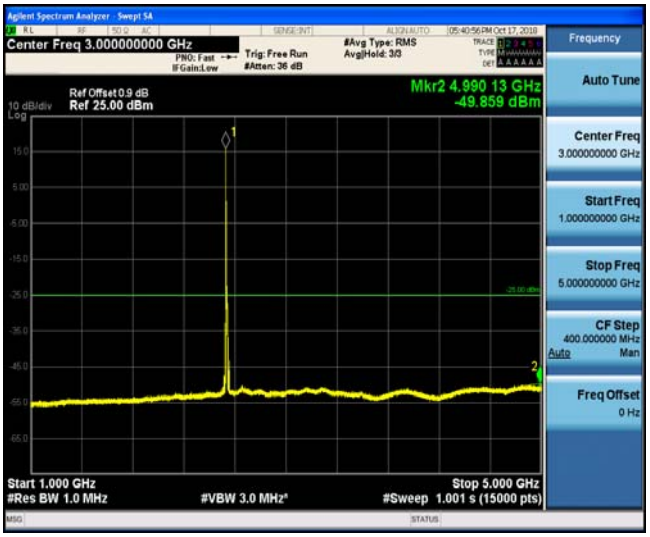

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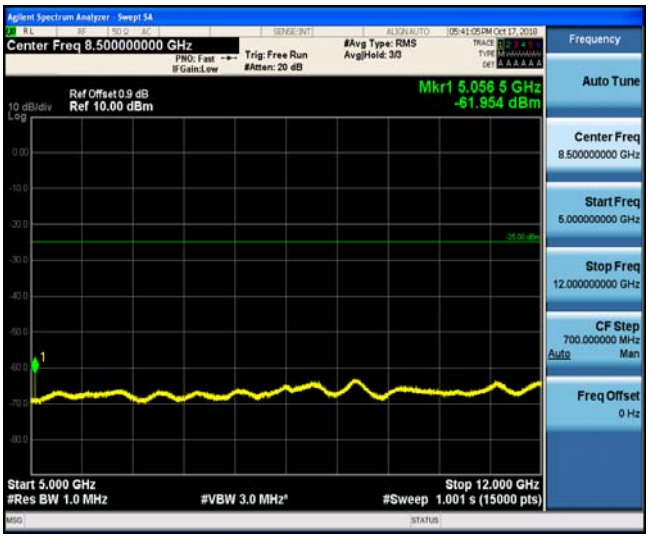

Band7_15MHz_16QAM_21100_1RB#0

Band7_15MHz_16QAM_21375_1RB#0

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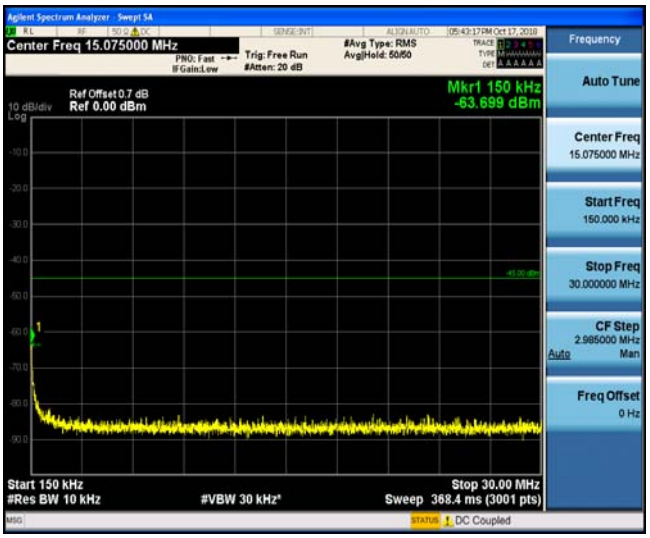

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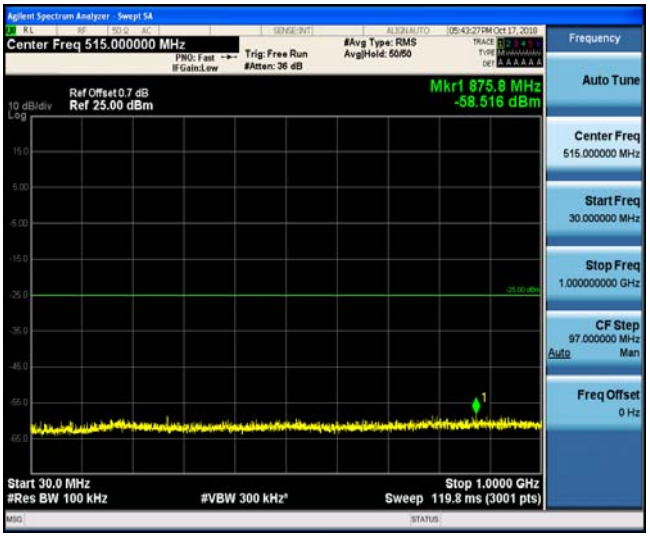

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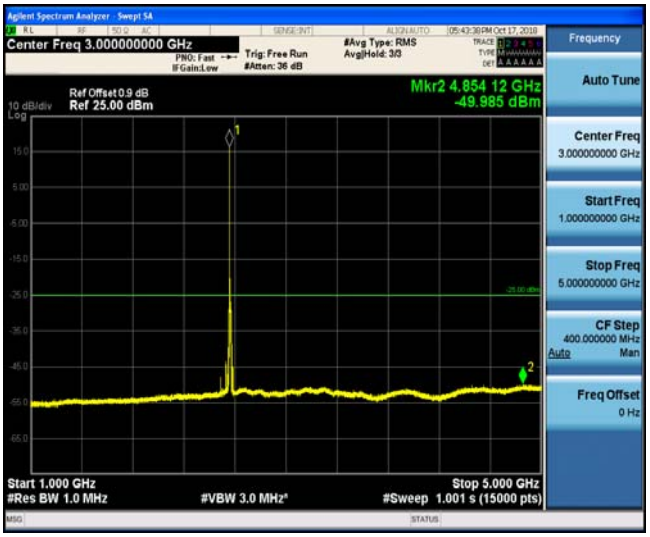

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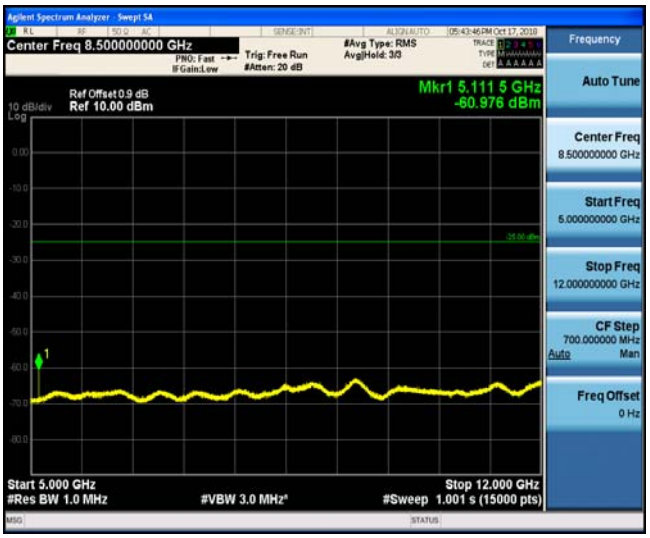

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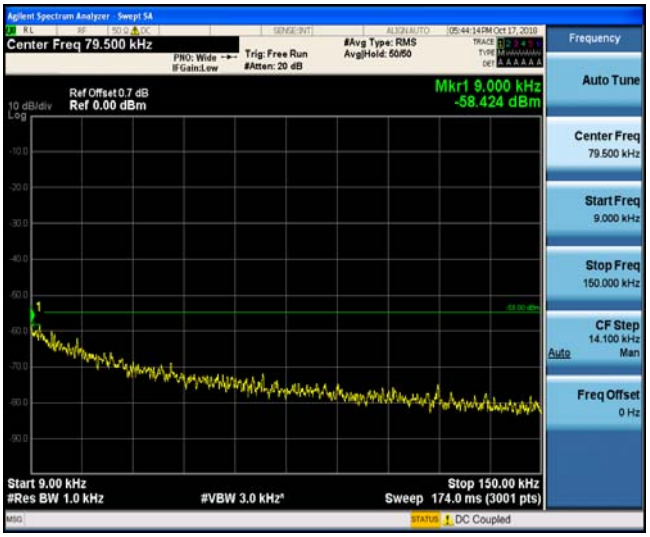
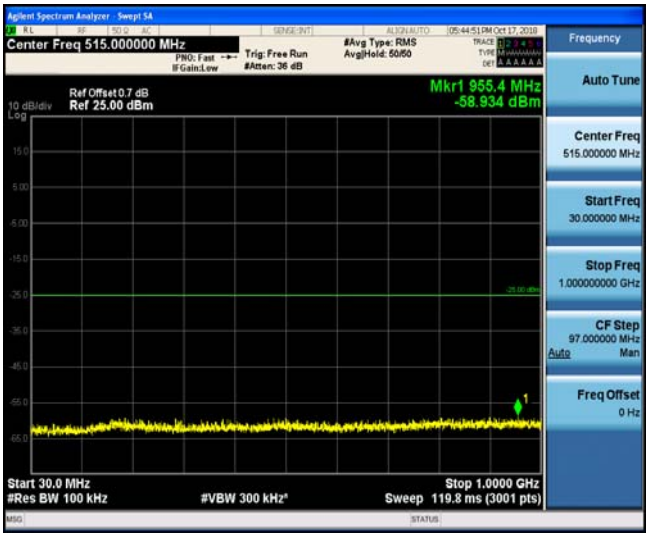


Band7_20MHz_QPSK_20850_1RB#0

Band7_20MHz_QPSK_20850_1RB#0



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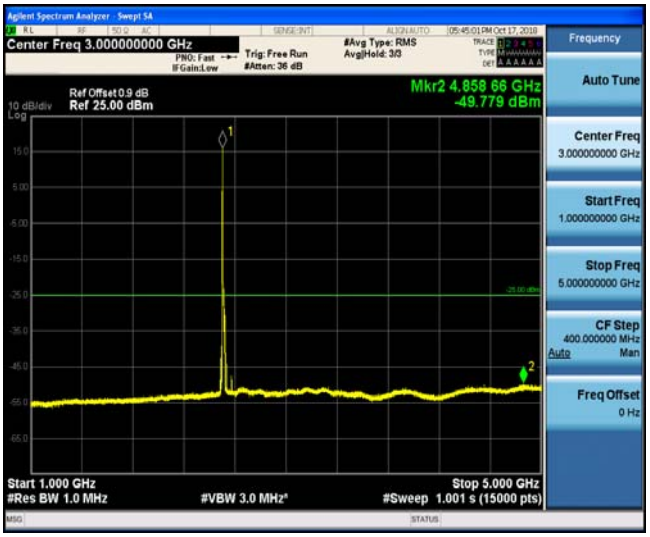

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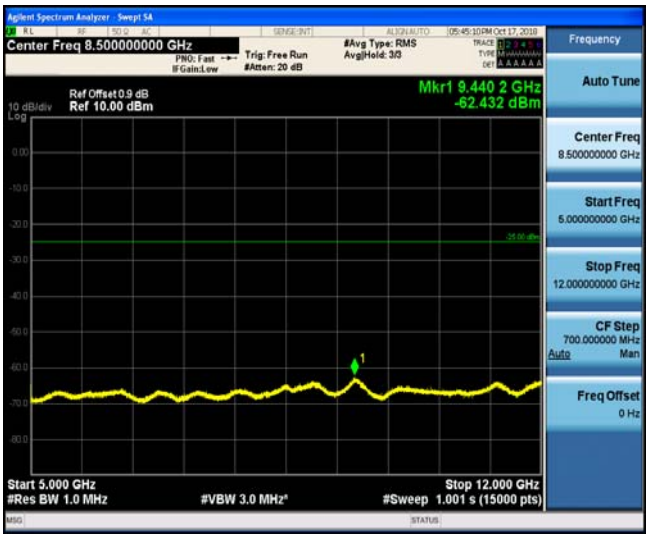

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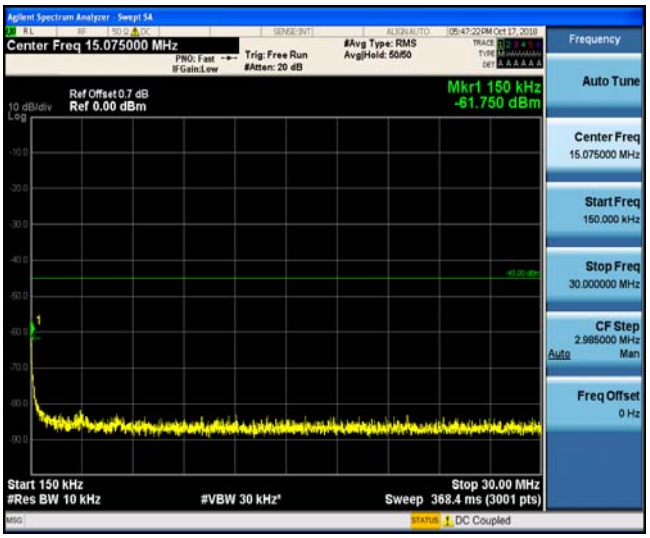
Band7_20MHz_QPSK_21100_1RB#0

Band7_20MHz_QPSK_21100_1RB#0



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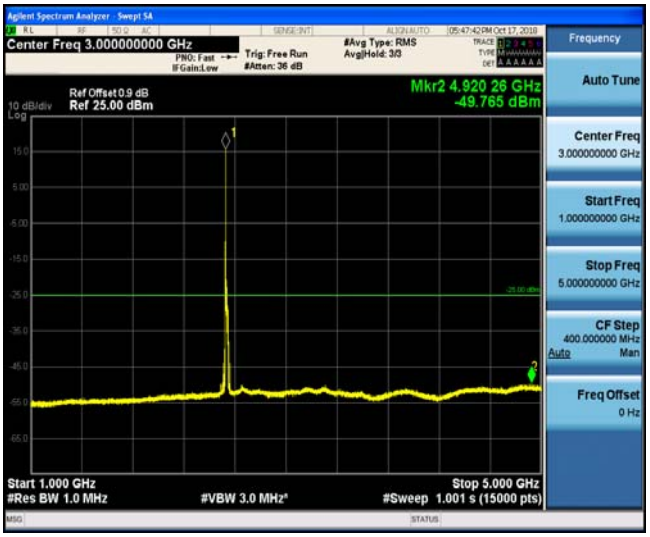

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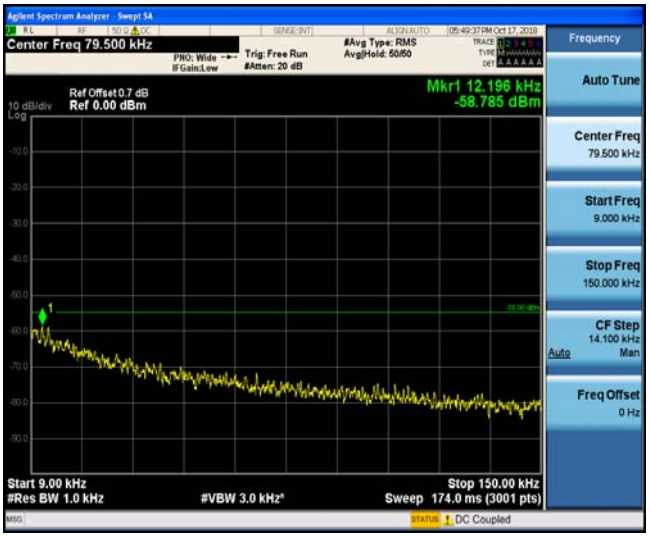

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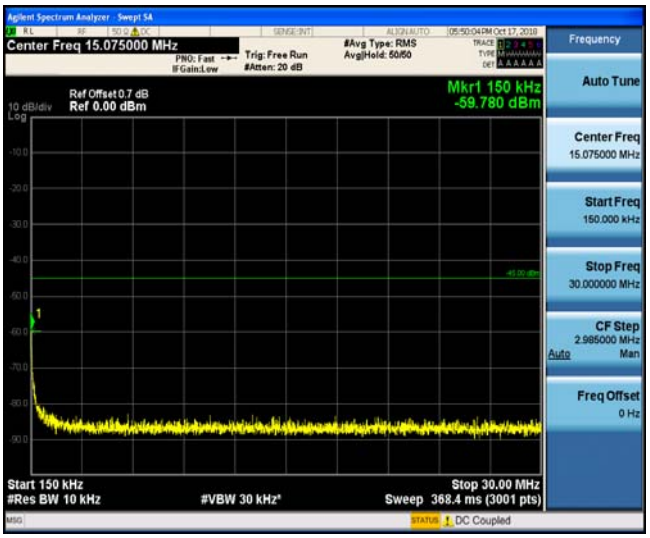

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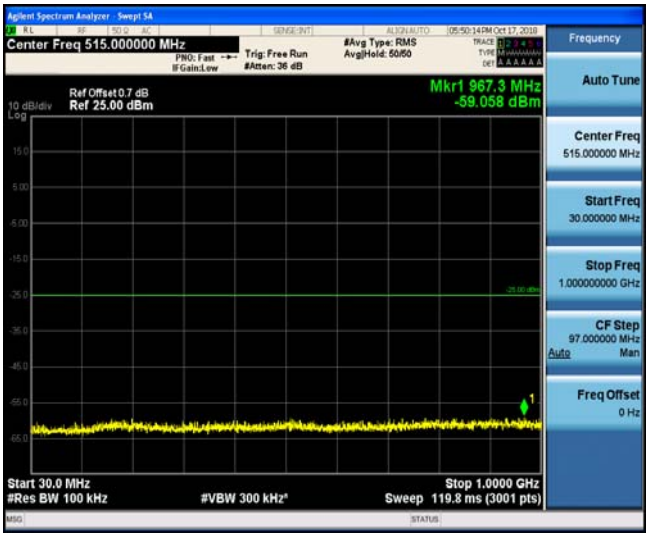

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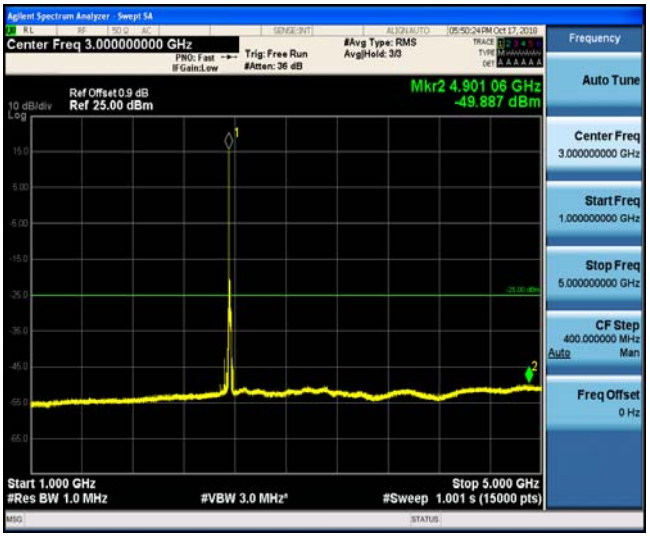

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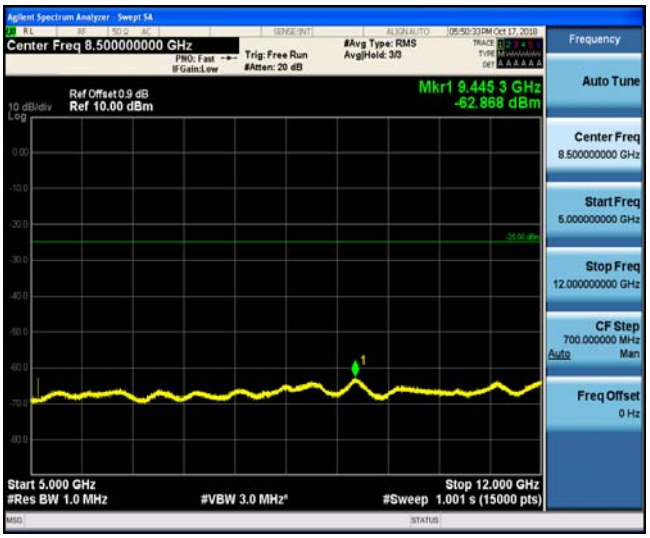
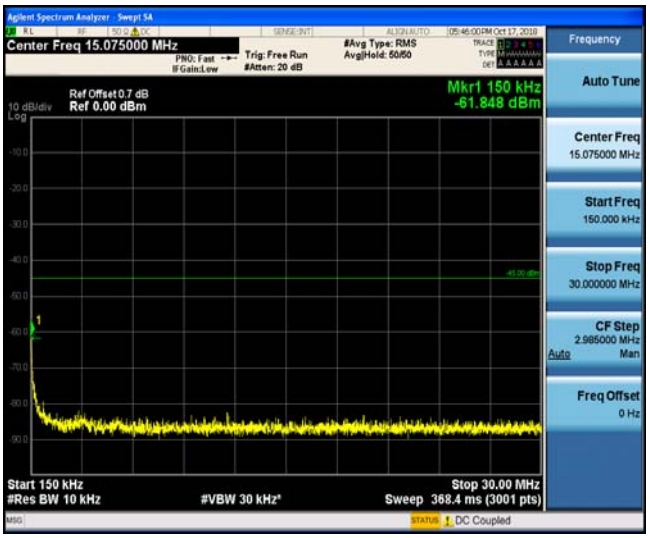


Band7_20MHz_QPSK_21350_1RB#0

Band7_20MHz_16QAM_20850_1RB#0

Band7_20MHz_16QAM_20850_1RB#0



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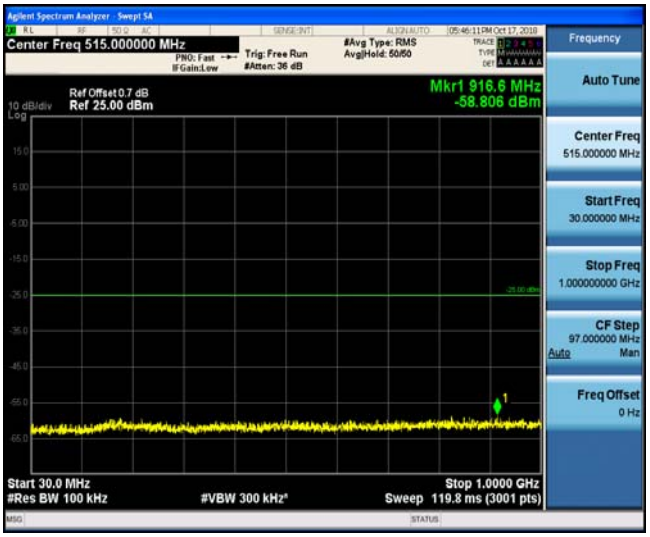

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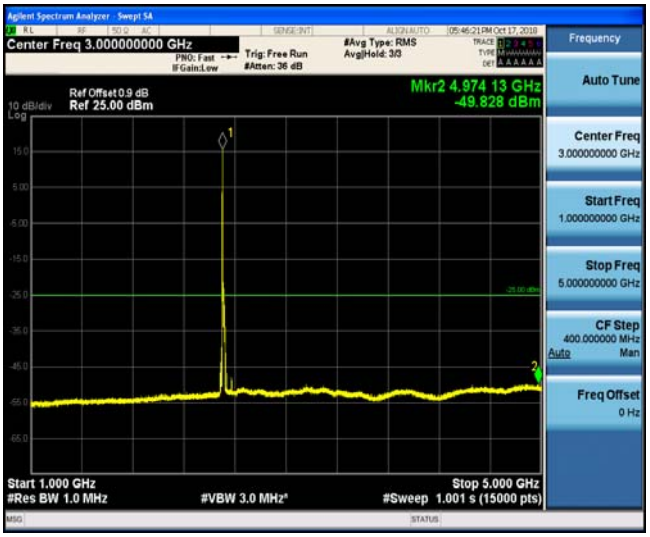

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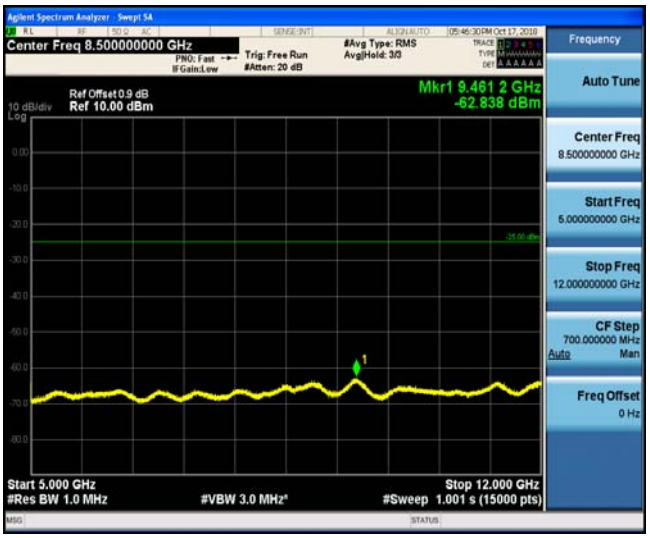

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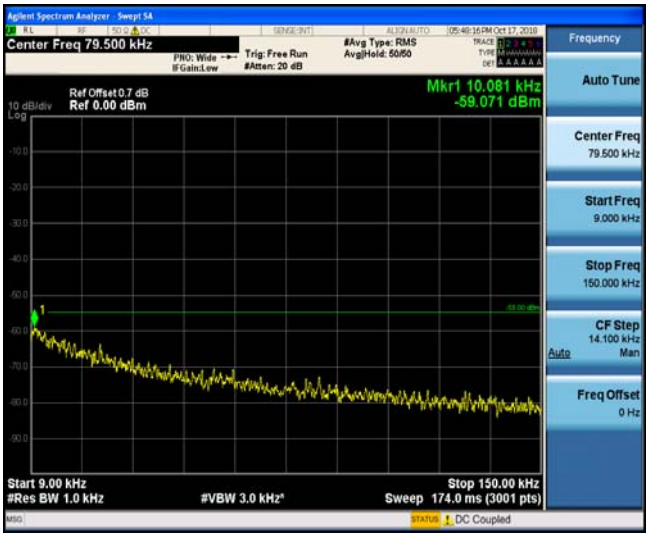

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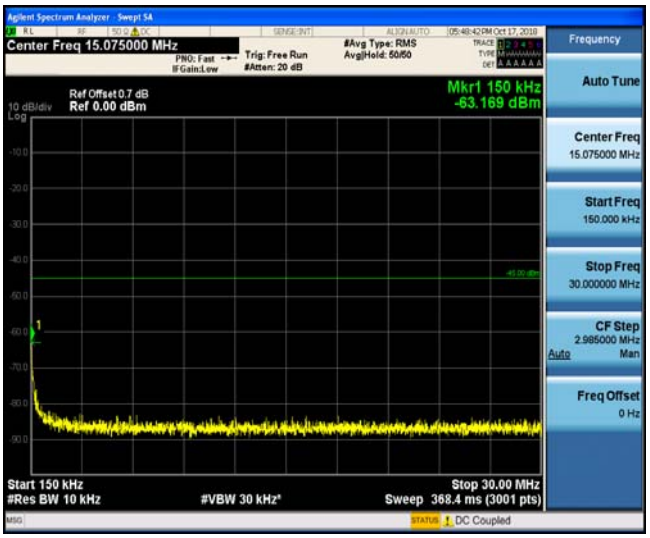

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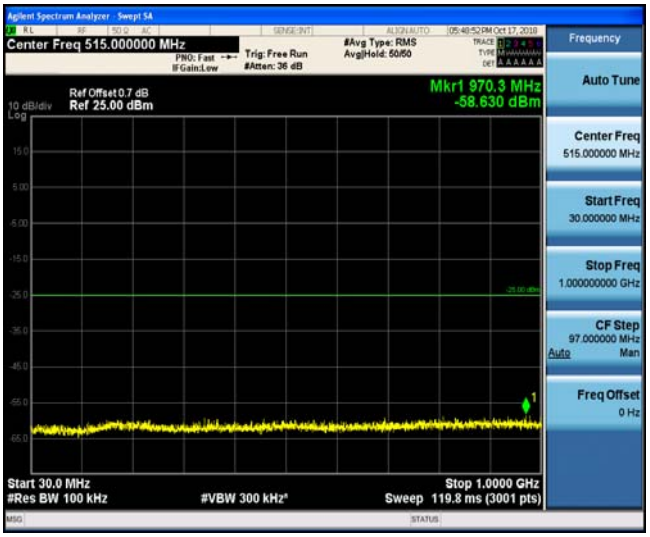
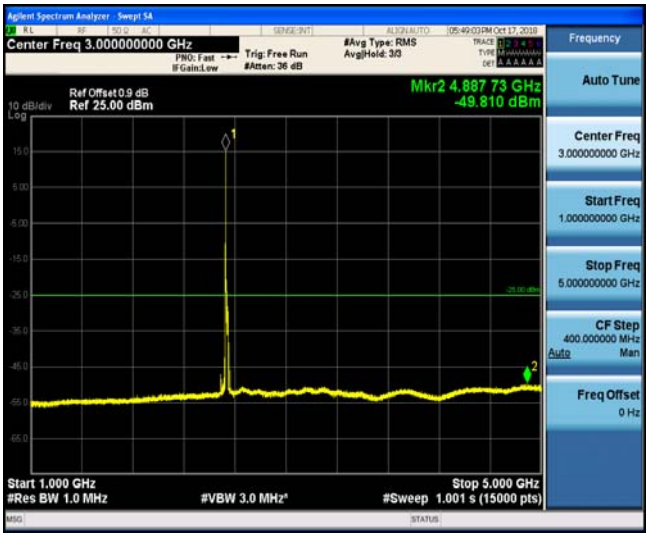


Band7_20MHz_16QAM_21100_1RB#0



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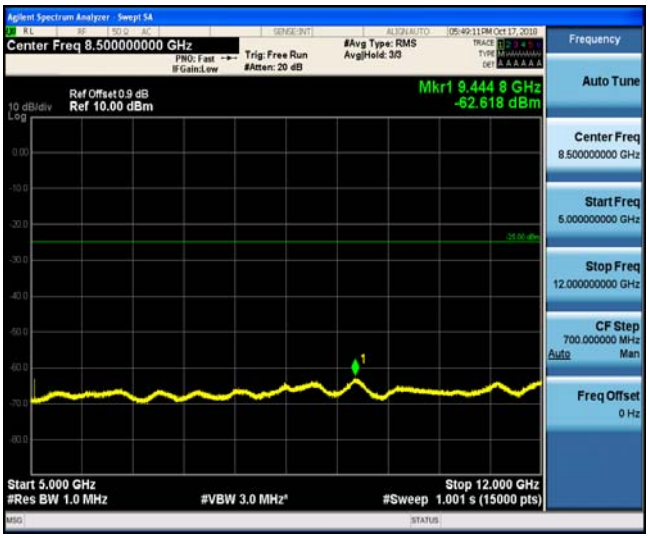

Band7_20MHz_16QAM_21100_1RB#0

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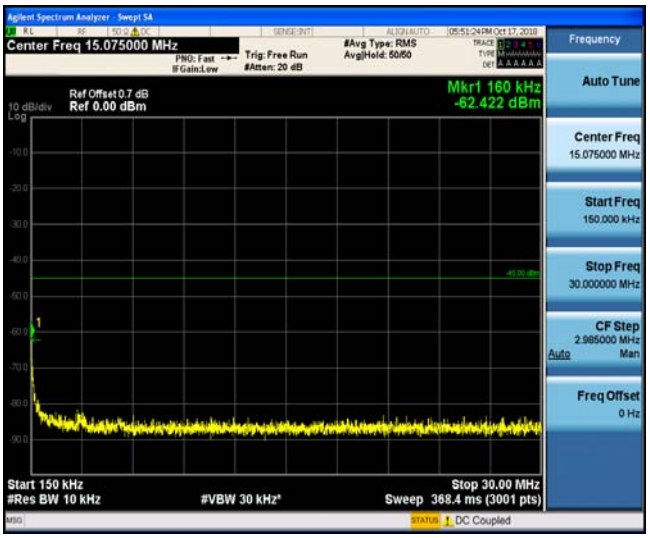

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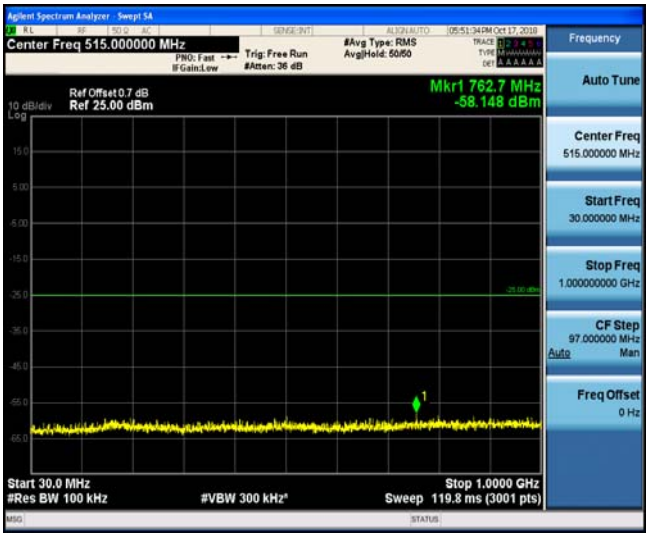
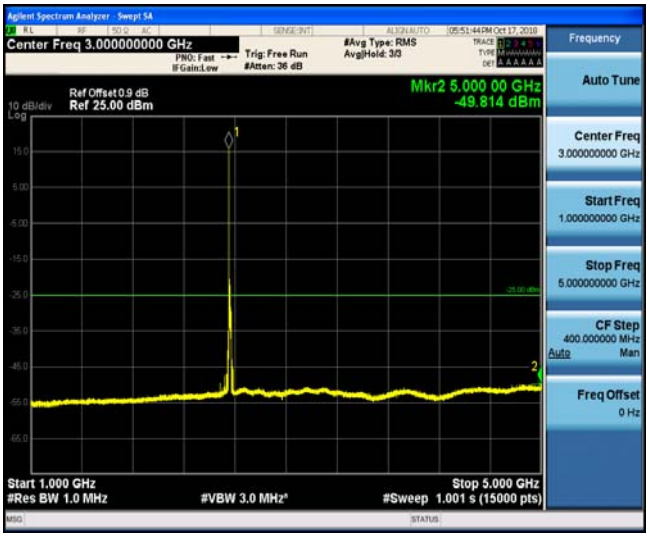
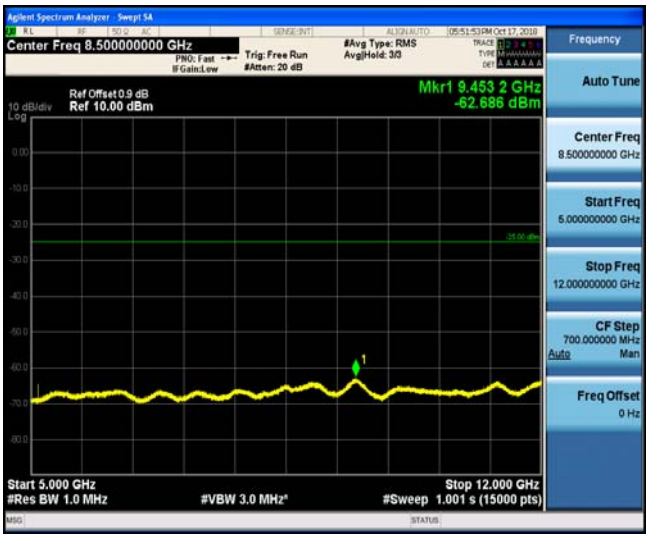


Band7_20MHz_16QAM_21350_1RB#0



Band7_20MHz_16QAM_21350_1RB#0



Band7_20MHz_16QAM_21350_1RB#0

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
#Avg Type: RMS
Avg|Hold: 3/3
05:52:02 PM Oct 17, 2018
Frequency
Auto Tune
Ref Offset 0.9 dB
10 dB/div
Log
Ref 10.00 dBm
Mkr1 16.975 1 GHz
-58.500 dBm
Center Freq
15.000000000 GHz
Start Freq
12.000000000 GHz
Stop Freq
18.000000000 GHz
CF Step
600.000000 MHz
Auto
Man
Freq Offset
0 Hz
Start 12.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 18.000 GHz
#Sweep 1.001 s (15000 pts)

Appendix F: Frequency Stability

Test Result

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	0.97	0.000388	± 2.5	PASS
		VN	TN	3.64	0.001455	± 2.5	PASS
		VH	TN	1.69	0.000675	± 2.5	PASS
	MCH	VL	TN	1.19	0.000469	± 2.5	PASS
		VN	TN	-1.43	-0.000564	± 2.5	PASS
		VH	TN	4.67	0.001842	± 2.5	PASS
	HCH	VL	TN	2.39	0.000931	± 2.5	PASS
		VN	TN	-1.98	-0.000771	± 2.5	PASS
		VH	TN	-1.99	-0.000775	± 2.5	PASS
16QAM	LCH	VL	TN	2.36	0.000943	± 2.5	PASS
		VN	TN	4.19	0.001674	± 2.5	PASS
		VH	TN	-1.34	-0.000535	± 2.5	PASS
	MCH	VL	TN	4.65	0.001834	± 2.5	PASS
		VN	TN	2.38	0.000939	± 2.5	PASS
		VH	TN	4.23	0.001669	± 2.5	PASS
	HCH	VL	TN	0.31	0.000121	± 2.5	PASS
		VN	TN	0.88	0.000343	± 2.5	PASS
		VH	TN	0.75	0.000292	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.69	-0.000276	± 2.5	PASS
		VN	-20	0.74	0.000296	± 2.5	PASS
		VN	-10	1.85	0.000739	± 2.5	PASS
		VN	0	-0.99	-0.000396	± 2.5	PASS
		VN	10	0.06	0.000024	± 2.5	PASS
		VN	20	4.92	0.001966	± 2.5	PASS
		VN	30	-1.69	-0.000675	± 2.5	PASS
		VN	40	4.09	0.001634	± 2.5	PASS
		VN	50	-1.26	-0.000503	± 2.5	PASS
	MCH	VN	-30	4.47	0.001763	± 2.5	PASS
		VN	-20	4.5	0.001775	± 2.5	PASS
		VN	-10	-1.58	-0.000623	± 2.5	PASS

		VN	0	2.3	0.000907	± 2.5	PASS
		VN	10	2.35	0.000927	± 2.5	PASS
		VN	20	-0.53	-0.000209	± 2.5	PASS
		VN	30	0.34	0.000134	± 2.5	PASS
		VN	40	4.01	0.001582	± 2.5	PASS
		VN	50	0.49	0.000193	± 2.5	PASS
	HCH	VN	-30	3.01	0.001172	± 2.5	PASS
		VN	-20	-1.32	-0.000514	± 2.5	PASS
		VN	-10	1.11	0.000432	± 2.5	PASS
		VN	0	4.28	0.001667	± 2.5	PASS
		VN	10	0.45	0.000175	± 2.5	PASS
		VN	20	4.38	0.001706	± 2.5	PASS
		VN	30	-1.88	-0.000732	± 2.5	PASS
		VN	40	1.63	0.000635	± 2.5	PASS
		VN	50	4.63	0.001803	± 2.5	PASS
16QAM	LCH	VN	-30	2.95	0.001179	± 2.5	PASS
		VN	-20	2.66	0.001063	± 2.5	PASS
		VN	-10	-1.56	-0.000623	± 2.5	PASS
		VN	0	4.23	0.001690	± 2.5	PASS
		VN	10	2.3	0.000919	± 2.5	PASS
		VN	20	4.18	0.001670	± 2.5	PASS
		VN	30	0.02	0.000008	± 2.5	PASS
		VN	40	1.07	0.000428	± 2.5	PASS
		VN	50	0.17	0.000068	± 2.5	PASS
	MCH	VN	-30	0.2	0.000079	± 2.5	PASS
		VN	-20	2.92	0.001152	± 2.5	PASS
		VN	-10	-1.59	-0.000627	± 2.5	PASS
		VN	0	2.85	0.001124	± 2.5	PASS
		VN	10	-1.25	-0.000493	± 2.5	PASS
		VN	20	2.24	0.000884	± 2.5	PASS
		VN	30	4.34	0.001712	± 2.5	PASS
		VN	40	3.75	0.001479	± 2.5	PASS
		VN	50	-1.88	-0.000742	± 2.5	PASS
	HCH	VN	-30	2.66	0.001036	± 2.5	PASS
		VN	-20	2.79	0.001087	± 2.5	PASS
		VN	-10	2.74	0.001067	± 2.5	PASS
		VN	0	1.46	0.000569	± 2.5	PASS
		VN	10	-1.11	-0.000432	± 2.5	PASS
		VN	20	2.48	0.000966	± 2.5	PASS
		VN	30	-0.93	-0.000362	± 2.5	PASS
		VN	40	0.51	0.000199	± 2.5	PASS

		VN	50	1.23	0.000479	± 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	4.07	0.001625	± 2.5	PASS
		VN	TN	1.63	0.000651	± 2.5	PASS
		VH	TN	-0.24	-0.000096	± 2.5	PASS
	MCH	VL	TN	-1.11	-0.000438	± 2.5	PASS
		VN	TN	0.42	0.000166	± 2.5	PASS
		VH	TN	-1.83	-0.000722	± 2.5	PASS
	HCH	VL	TN	-1.24	-0.000483	± 2.5	PASS
		VN	TN	0.37	0.000144	± 2.5	PASS
		VH	TN	4.01	0.001563	± 2.5	PASS
16QAM	LCH	VL	TN	1.27	0.000507	± 2.5	PASS
		VN	TN	-1.67	-0.000667	± 2.5	PASS
		VH	TN	3.82	0.001525	± 2.5	PASS
	MCH	VL	TN	0.03	0.000012	± 2.5	PASS
		VN	TN	-0.78	-0.000308	± 2.5	PASS
		VH	TN	-1.86	-0.000734	± 2.5	PASS
	HCH	VL	TN	3.87	0.001509	± 2.5	PASS
		VN	TN	4.72	0.001840	± 2.5	PASS
		VH	TN	3.09	0.001205	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	4.42	0.001764	± 2.5	PASS
		VN	-20	2.95	0.001178	± 2.5	PASS
		VN	-10	0.84	0.000335	± 2.5	PASS
		VN	0	2.34	0.000934	± 2.5	PASS
		VN	10	-1.07	-0.000427	± 2.5	PASS
		VN	20	1.63	0.000651	± 2.5	PASS
		VN	30	4.91	0.001960	± 2.5	PASS
		VN	40	0.1	0.000040	± 2.5	PASS
		VN	50	1.25	0.000499	± 2.5	PASS
	MCH	VN	-30	-1.71	-0.000675	± 2.5	PASS
		VN	-20	0.16	0.000063	± 2.5	PASS
		VN	-10	3.62	0.001428	± 2.5	PASS
		VN	0	4.79	0.001890	± 2.5	PASS

		VN	10	1.24	0.000489	± 2.5	PASS
		VN	20	2.4	0.000947	± 2.5	PASS
		VN	30	3.22	0.001270	± 2.5	PASS
		VN	40	2.1	0.000828	± 2.5	PASS
		VN	50	-1.84	-0.000726	± 2.5	PASS
	HCH	VN	-30	3.99	0.001556	± 2.5	PASS
		VN	-20	1.08	0.000421	± 2.5	PASS
		VN	-10	0.18	0.000070	± 2.5	PASS
		VN	0	-0.6	-0.000234	± 2.5	PASS
		VN	10	-0.75	-0.000292	± 2.5	PASS
		VN	20	4.36	0.001700	± 2.5	PASS
		VN	30	3.65	0.001423	± 2.5	PASS
		VN	40	4.96	0.001934	± 2.5	PASS
		VN	50	0.27	0.000105	± 2.5	PASS
QPSK	LCH	VN	-30	-0.24	-0.000096	± 2.5	PASS
		VN	-20	1.5	0.000599	± 2.5	PASS
		VN	-10	-1.29	-0.000515	± 2.5	PASS
		VN	0	2.22	0.000886	± 2.5	PASS
		VN	10	1.02	0.000407	± 2.5	PASS
		VN	20	2.55	0.001018	± 2.5	PASS
		VN	30	0.84	0.000335	± 2.5	PASS
		VN	40	2.67	0.001066	± 2.5	PASS
		VN	50	0.63	0.000251	± 2.5	PASS
	MCH	VN	-30	0.54	0.000213	± 2.5	PASS
		VN	-20	-0.53	-0.000209	± 2.5	PASS
		VN	-10	4.65	0.001834	± 2.5	PASS
		VN	0	-1.07	-0.000422	± 2.5	PASS
		VN	10	-1.71	-0.000675	± 2.5	PASS
		VN	20	2.3	0.000907	± 2.5	PASS
		VN	30	3.79	0.001495	± 2.5	PASS
		VN	40	4.18	0.001649	± 2.5	PASS
		VN	50	4.52	0.001783	± 2.5	PASS
	HCH	VN	-30	-0.65	-0.000253	± 2.5	PASS
		VN	-20	2.3	0.000897	± 2.5	PASS
		VN	-10	4.95	0.001930	± 2.5	PASS
		VN	0	-1.44	-0.000561	± 2.5	PASS
		VN	10	1.51	0.000589	± 2.5	PASS
		VN	20	1.88	0.000733	± 2.5	PASS
		VN	30	-1.14	-0.000444	± 2.5	PASS
		VN	40	0.21	0.000082	± 2.5	PASS
		VN	50	0.08	0.000031	± 2.5	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.71	0.001878	± 2.5	PASS
		VN	TN	0.62	0.000247	± 2.5	PASS
		VH	TN	-1.18	-0.000471	± 2.5	PASS
	MCH	VL	TN	0.98	0.000387	± 2.5	PASS
		VN	TN	1.83	0.000722	± 2.5	PASS
		VH	TN	3.16	0.001247	± 2.5	PASS
	HCH	VL	TN	3.4	0.001327	± 2.5	PASS
		VN	TN	5	0.001951	± 2.5	PASS
		VH	TN	1.54	0.000601	± 2.5	PASS
16QAM	LCH	VL	TN	2.19	0.000873	± 2.5	PASS
		VN	TN	0.96	0.000383	± 2.5	PASS
		VH	TN	-0.69	-0.000275	± 2.5	PASS
	MCH	VL	TN	1.58	0.000623	± 2.5	PASS
		VN	TN	3.31	0.001306	± 2.5	PASS
		VH	TN	-0.37	-0.000146	± 2.5	PASS
	HCH	VL	TN	4.34	0.001694	± 2.5	PASS
		VN	TN	1.41	0.000550	± 2.5	PASS
		VH	TN	-1.74	-0.000679	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.41	0.001759	± 2.5	PASS
		VN	-20	1.35	0.000538	± 2.5	PASS
		VN	-10	2.8	0.001117	± 2.5	PASS
		VN	0	-0.92	-0.000367	± 2.5	PASS
		VN	10	3.62	0.001444	± 2.5	PASS
		VN	20	1.6	0.000638	± 2.5	PASS
		VN	30	-1.47	-0.000586	± 2.5	PASS
		VN	40	-0.2	-0.000080	± 2.5	PASS
		VN	50	4.14	0.001651	± 2.5	PASS
	MCH	VN	-30	2.99	0.001179	± 2.5	PASS
		VN	-20	-1.9	-0.000750	± 2.5	PASS
		VN	-10	4.82	0.001901	± 2.5	PASS
		VN	0	-0.91	-0.000359	± 2.5	PASS
		VN	10	2.7	0.001065	± 2.5	PASS
		VN	20	1.79	0.000706	± 2.5	PASS

		VN	30	3.26	0.001286	± 2.5	PASS
		VN	40	1.78	0.000702	± 2.5	PASS
		VN	50	-0.36	-0.000142	± 2.5	PASS
	HCH	VN	-30	3.57	0.001393	± 2.5	PASS
		VN	-20	1.69	0.000660	± 2.5	PASS
		VN	-10	3.42	0.001335	± 2.5	PASS
		VN	0	4.72	0.001842	± 2.5	PASS
		VN	10	-0.62	-0.000242	± 2.5	PASS
		VN	20	4.62	0.001803	± 2.5	PASS
		VN	30	-0.23	-0.000090	± 2.5	PASS
		VN	40	-1.44	-0.000562	± 2.5	PASS
		VN	50	2.2	0.000859	± 2.5	PASS
16QAM	LCH	VN	-30	2.1	0.000837	± 2.5	PASS
		VN	-20	-0.45	-0.000179	± 2.5	PASS
		VN	-10	-0.94	-0.000375	± 2.5	PASS
		VN	0	1.74	0.000694	± 2.5	PASS
		VN	10	4.46	0.001779	± 2.5	PASS
		VN	20	-0.55	-0.000219	± 2.5	PASS
		VN	30	1	0.000399	± 2.5	PASS
		VN	40	4.97	0.001982	± 2.5	PASS
		VN	50	-0.73	-0.000291	± 2.5	PASS
	MCH	VN	-30	1.83	0.000722	± 2.5	PASS
		VN	-20	2.76	0.001089	± 2.5	PASS
		VN	-10	-1.01	-0.000398	± 2.5	PASS
		VN	0	-0.17	-0.000067	± 2.5	PASS
		VN	10	4.78	0.001886	± 2.5	PASS
		VN	20	4.28	0.001688	± 2.5	PASS
		VN	30	4.55	0.001795	± 2.5	PASS
		VN	40	-1.37	-0.000540	± 2.5	PASS
		VN	50	0.13	0.000051	± 2.5	PASS
	HCH	VN	-30	0.43	0.000168	± 2.5	PASS
		VN	-20	2.26	0.000882	± 2.5	PASS
		VN	-10	2.12	0.000827	± 2.5	PASS
		VN	0	3.68	0.001436	± 2.5	PASS
		VN	10	4.8	0.001873	± 2.5	PASS
		VN	20	1.52	0.000593	± 2.5	PASS
		VN	30	1.7	0.000663	± 2.5	PASS
		VN	40	3.25	0.001268	± 2.5	PASS
		VN	50	2.86	0.001116	± 2.5	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.86	0.001936	± 2.5	PASS
		VN	TN	-0.73	-0.000291	± 2.5	PASS
		VH	TN	3.29	0.001311	± 2.5	PASS
	MCH	VL	TN	4.79	0.001890	± 2.5	PASS
		VN	TN	3.3	0.001302	± 2.5	PASS
		VH	TN	-1.49	-0.000588	± 2.5	PASS
	HCH	VL	TN	-1.36	-0.000531	± 2.5	PASS
		VN	TN	0.23	0.000090	± 2.5	PASS
		VH	TN	-1.31	-0.000512	± 2.5	PASS
16QAM	LCH	VL	TN	2.72	0.001084	± 2.5	PASS
		VN	TN	-1.28	-0.000510	± 2.5	PASS
		VH	TN	2.85	0.001135	± 2.5	PASS
	MCH	VL	TN	4.17	0.001645	± 2.5	PASS
		VN	TN	3.09	0.001219	± 2.5	PASS
		VH	TN	2.35	0.000927	± 2.5	PASS
	HCH	VL	TN	0.61	0.000238	± 2.5	PASS
		VN	TN	-1.4	-0.000547	± 2.5	PASS
		VH	TN	0.65	0.000254	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.18	0.000470	± 2.5	PASS
		VN	-20	2.14	0.000853	± 2.5	PASS
		VN	-10	1.51	0.000602	± 2.5	PASS
		VN	0	4.94	0.001968	± 2.5	PASS
		VN	10	2.04	0.000813	± 2.5	PASS
		VN	20	4.73	0.001884	± 2.5	PASS
		VN	30	0.5	0.000199	± 2.5	PASS
		VN	40	0.4	0.000159	± 2.5	PASS
		VN	50	0.13	0.000052	± 2.5	PASS
	MCH	VN	-30	3.69	0.001456	± 2.5	PASS
		VN	-20	3.42	0.001349	± 2.5	PASS
		VN	-10	-1.98	-0.000781	± 2.5	PASS
		VN	0	2.71	0.001069	± 2.5	PASS
		VN	10	2.26	0.000892	± 2.5	PASS
		VN	20	1.07	0.000422	± 2.5	PASS

		VN	30	-0.04	-0.000016	± 2.5	PASS
		VN	40	4.9	0.001933	± 2.5	PASS
		VN	50	3.29	0.001298	± 2.5	PASS
	HCH	VN	-30	-1.8	-0.000703	± 2.5	PASS
		VN	-20	4.04	0.001578	± 2.5	PASS
		VN	-10	-1.93	-0.000754	± 2.5	PASS
		VN	0	1.42	0.000555	± 2.5	PASS
		VN	10	3.16	0.001234	± 2.5	PASS
		VN	20	-0.9	-0.000352	± 2.5	PASS
		VN	30	1.9	0.000742	± 2.5	PASS
		VN	40	0.84	0.000328	± 2.5	PASS
		VN	50	-0.81	-0.000316	± 2.5	PASS
16QAM	LCH	VN	-30	0.91	0.000363	± 2.5	PASS
		VN	-20	2.21	0.000880	± 2.5	PASS
		VN	-10	1.3	0.000518	± 2.5	PASS
		VN	0	0.35	0.000139	± 2.5	PASS
		VN	10	2.83	0.001127	± 2.5	PASS
		VN	20	0.34	0.000135	± 2.5	PASS
		VN	30	4.75	0.001892	± 2.5	PASS
		VN	40	-0.12	-0.000048	± 2.5	PASS
		VN	50	2.9	0.001155	± 2.5	PASS
	MCH	VN	-30	-1.51	-0.000596	± 2.5	PASS
		VN	-20	1.89	0.000746	± 2.5	PASS
		VN	-10	4.6	0.001815	± 2.5	PASS
		VN	0	-0.7	-0.000276	± 2.5	PASS
		VN	10	4.66	0.001838	± 2.5	PASS
		VN	20	-0.47	-0.000185	± 2.5	PASS
		VN	30	2.71	0.001069	± 2.5	PASS
		VN	40	2.24	0.000884	± 2.5	PASS
		VN	50	4.76	0.001878	± 2.5	PASS
	HCH	VN	-30	0.46	0.000180	± 2.5	PASS
		VN	-20	3.96	0.001547	± 2.5	PASS
		VN	-10	1.36	0.000531	± 2.5	PASS
		VN	0	0.75	0.000293	± 2.5	PASS
		VN	10	2.78	0.001086	± 2.5	PASS
		VN	20	-1.68	-0.000656	± 2.5	PASS
		VN	30	1.87	0.000730	± 2.5	PASS
		VN	40	4.22	0.001648	± 2.5	PASS
		VN	50	3.58	0.001398	± 2.5	PASS