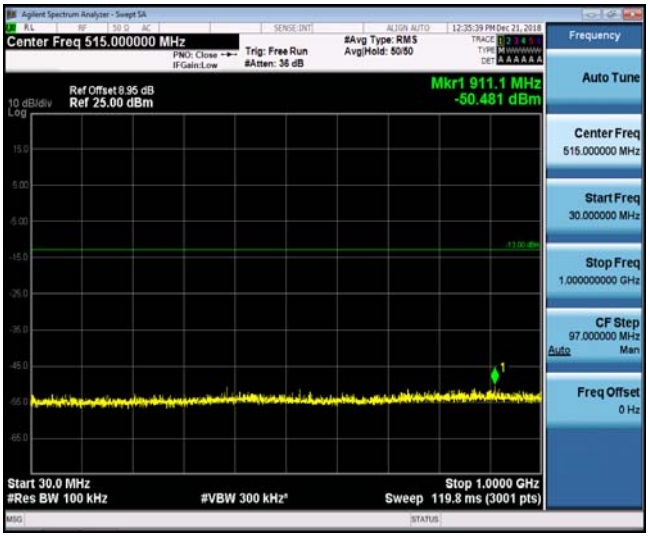

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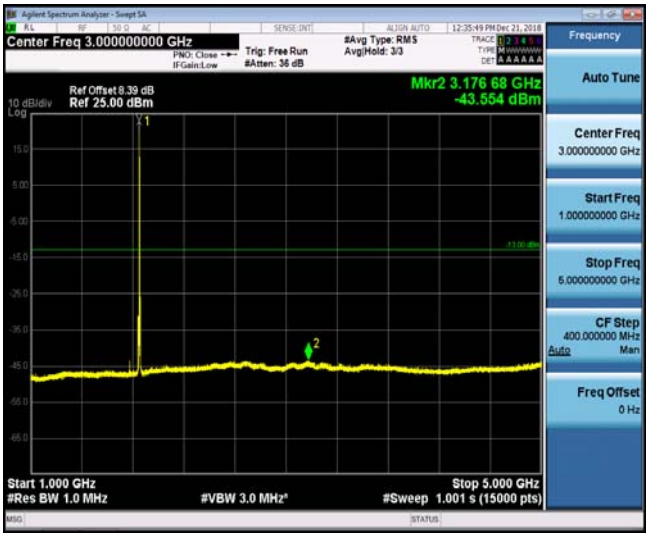

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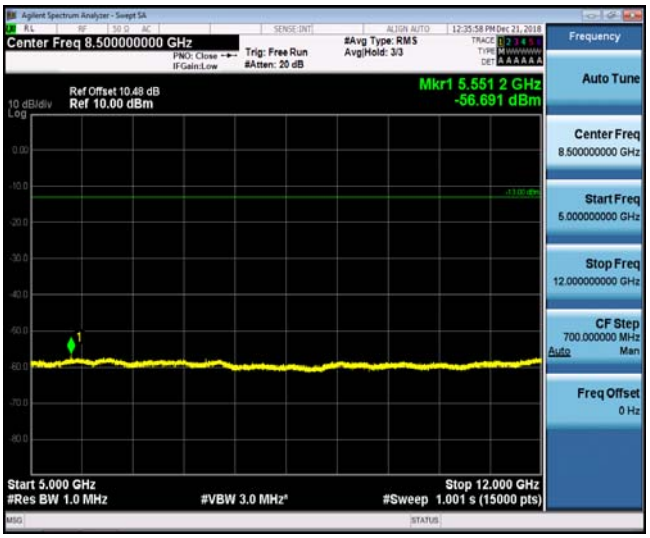

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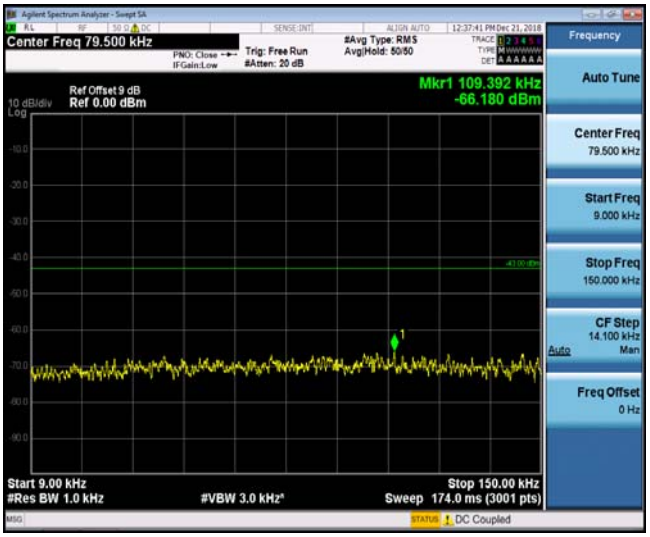

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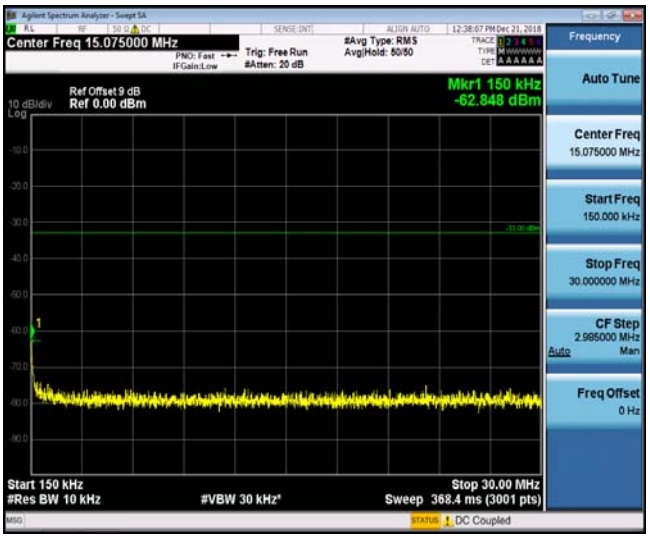

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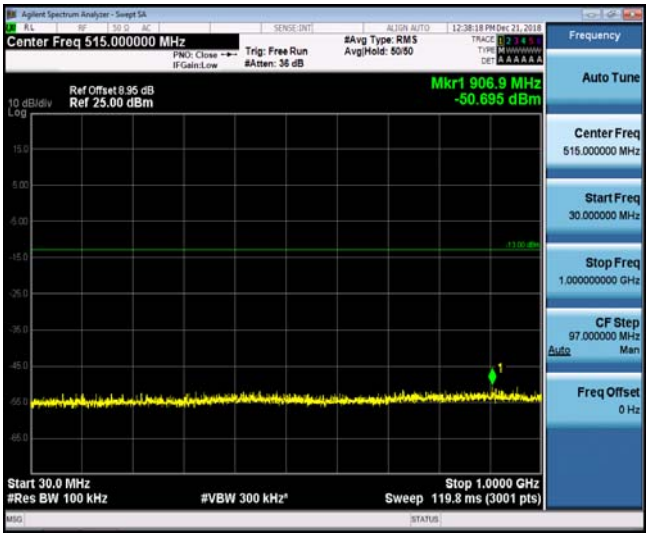

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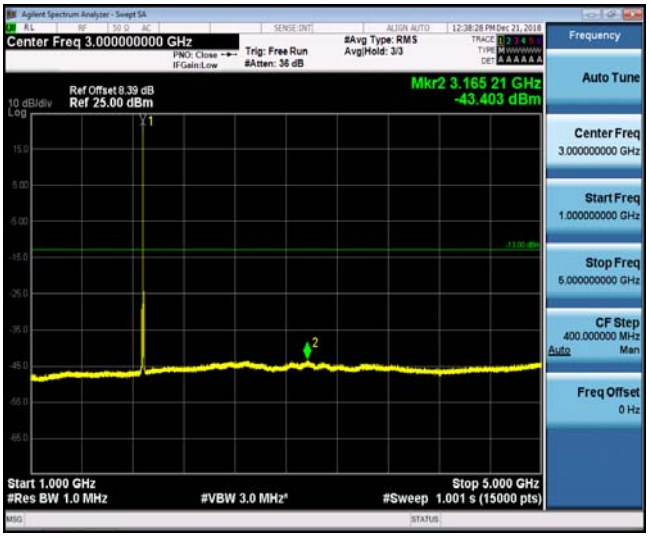

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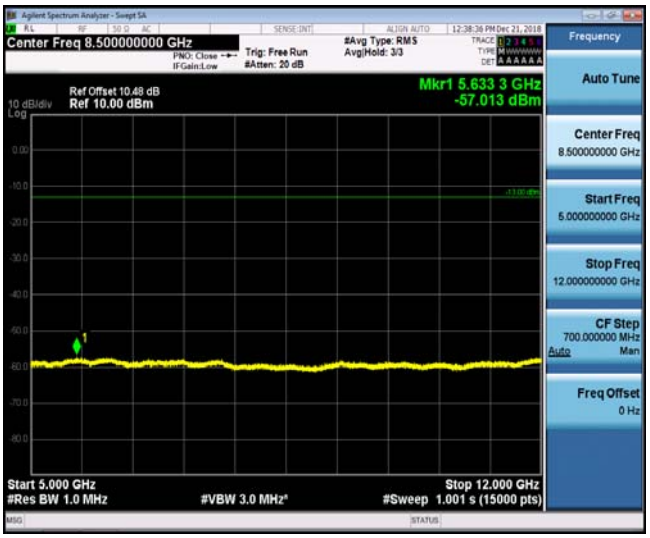

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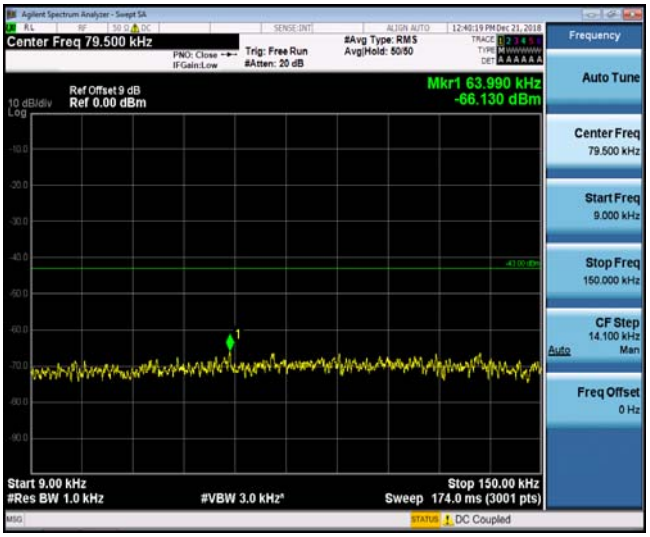

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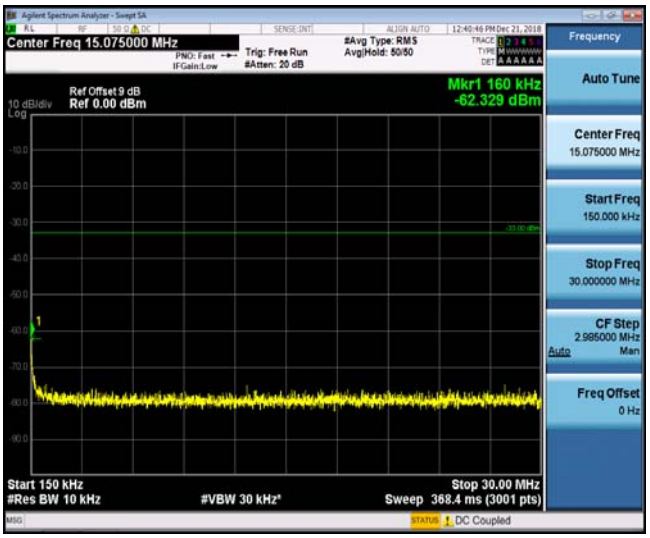

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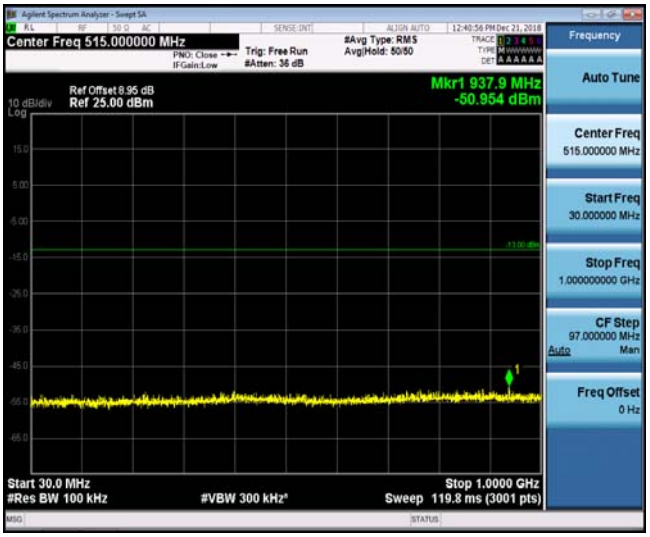

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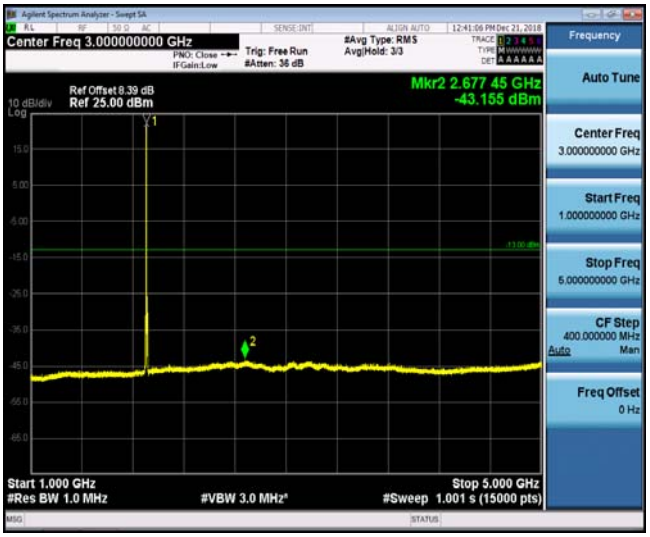

Band2_5MHz_QPSK_19175_1RB#0

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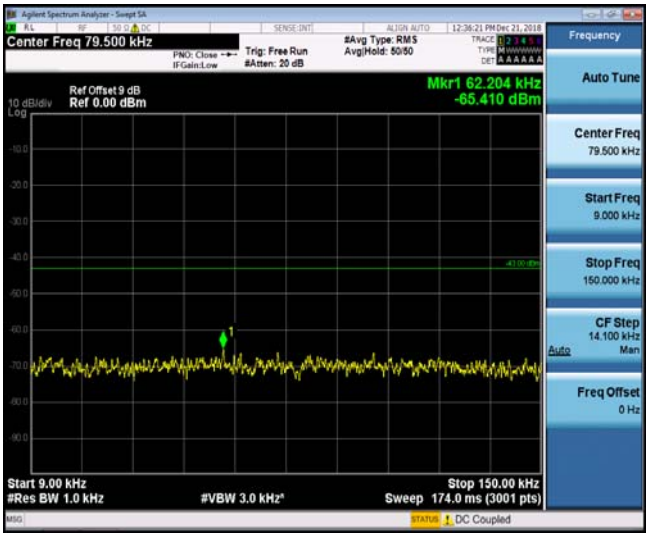
Band2_5MHz_16QAM_18625_1RB#0



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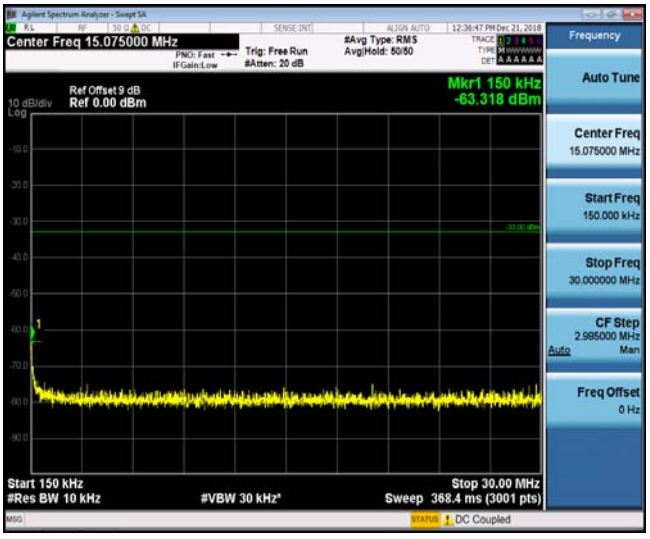

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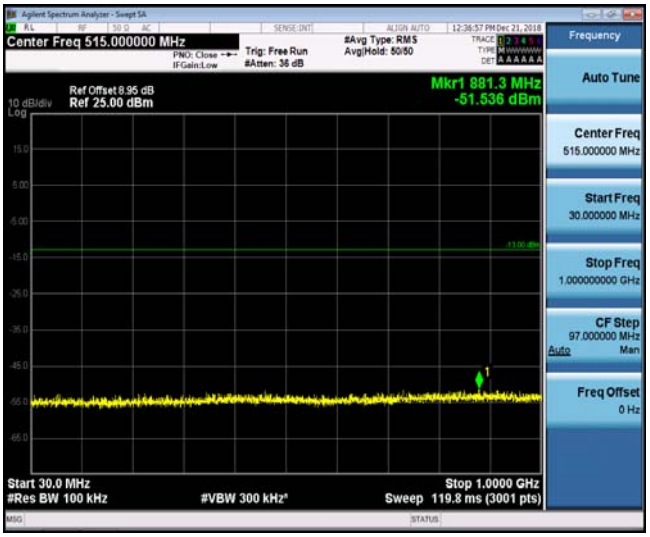

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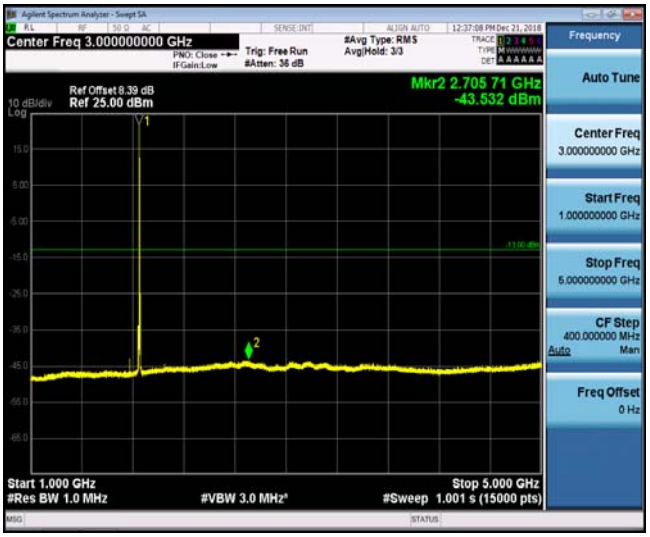

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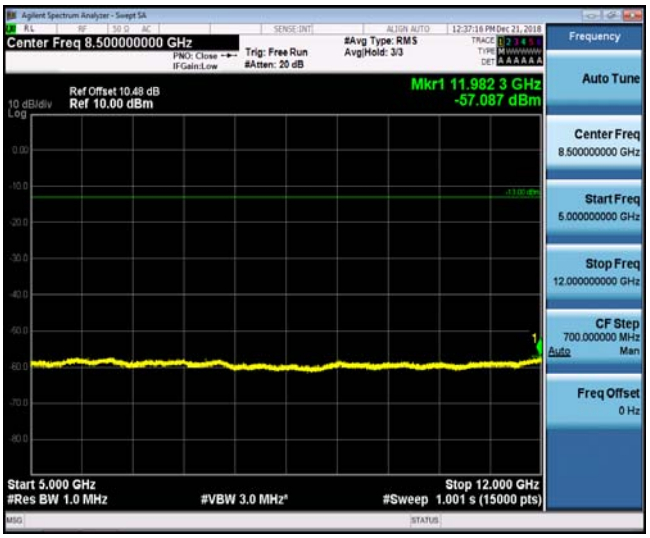

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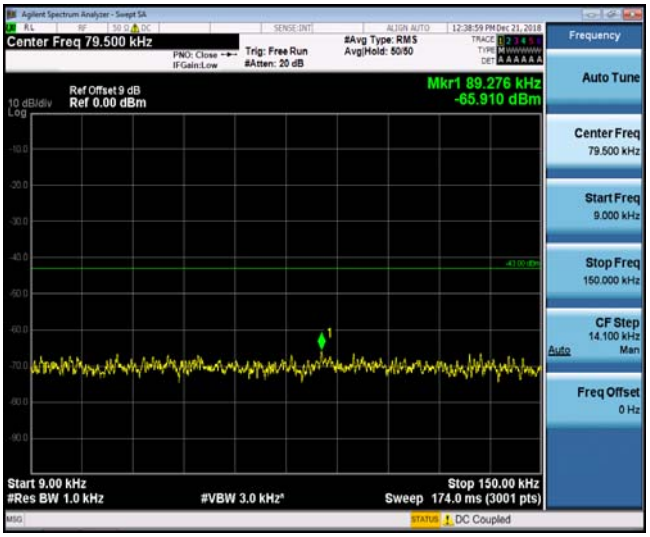

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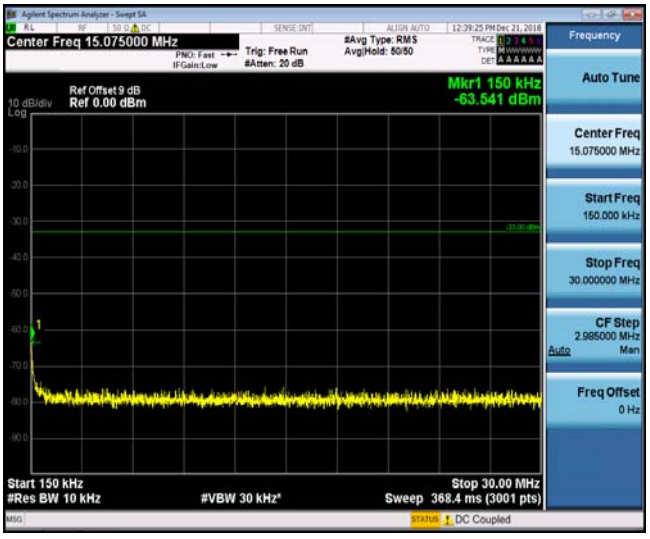

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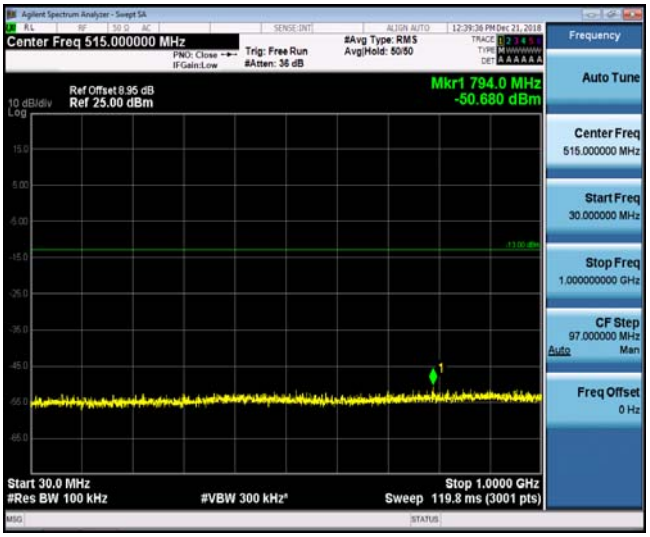

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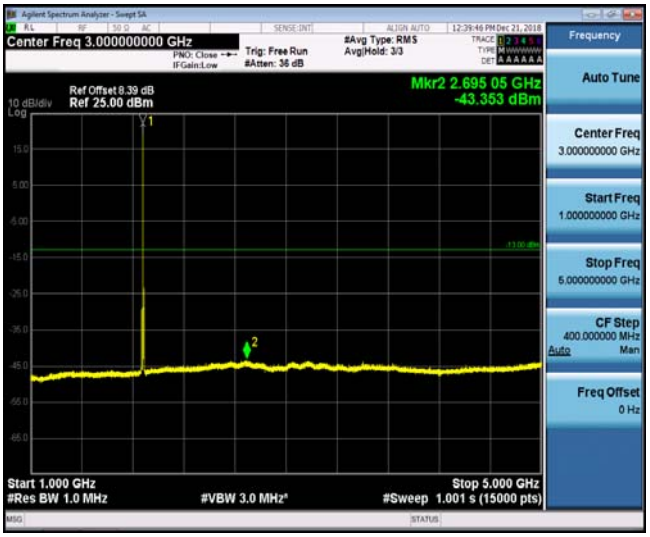

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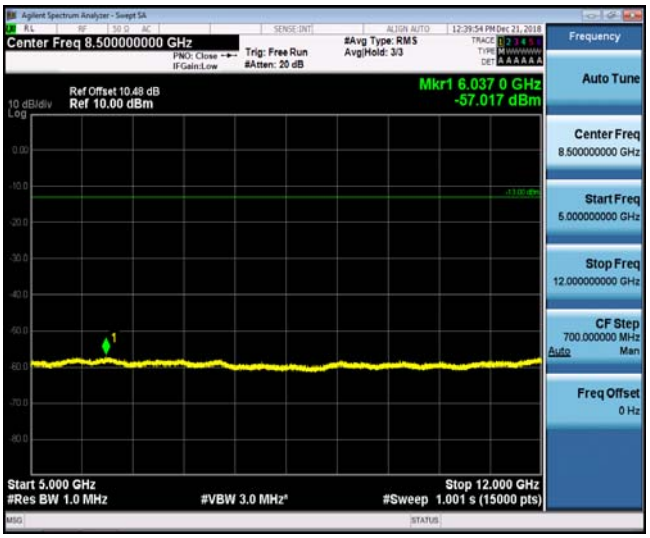

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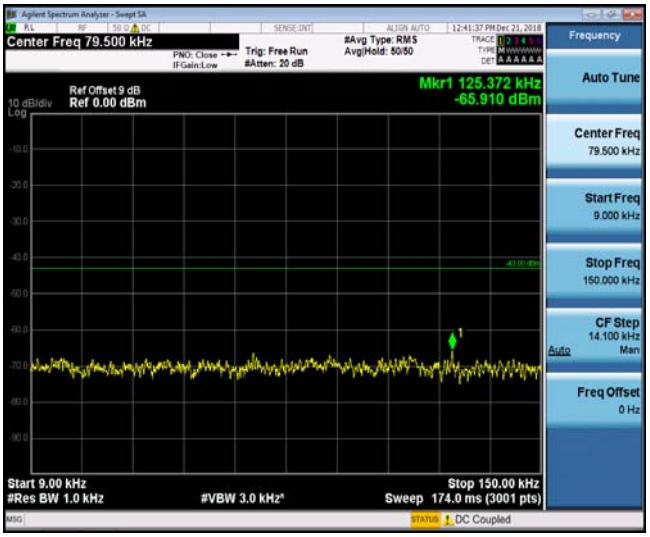

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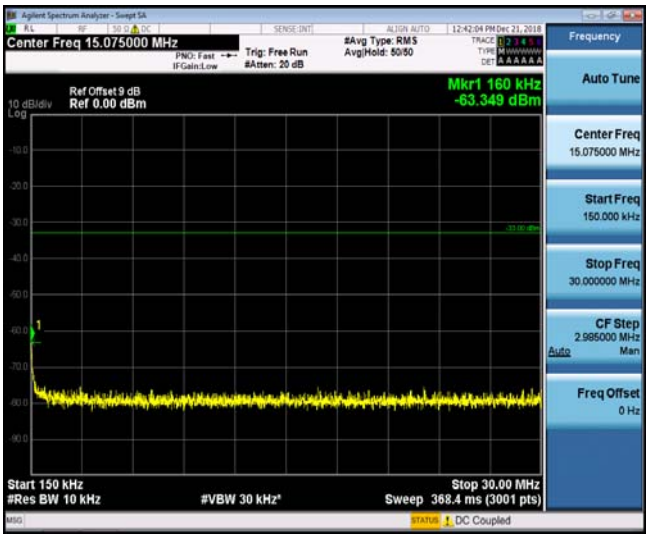

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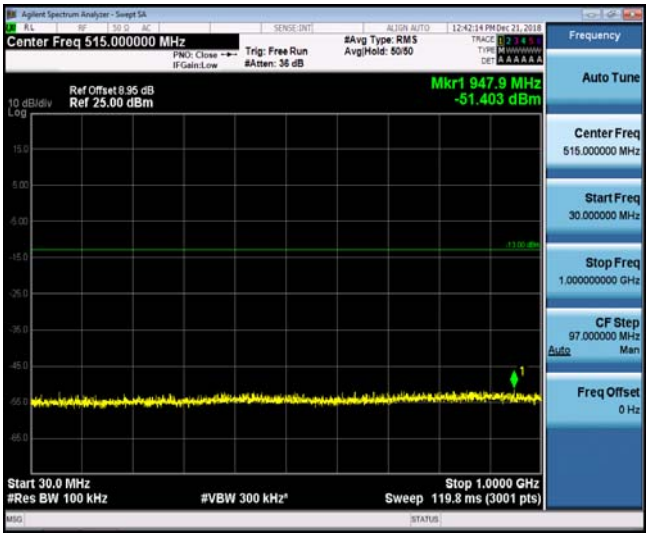

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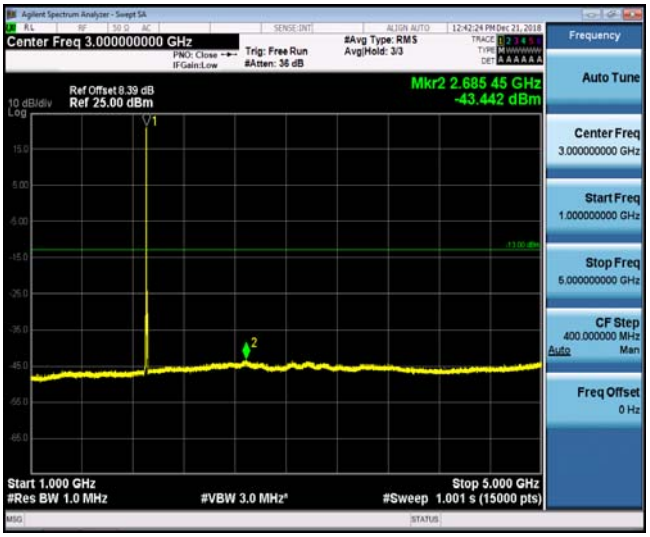

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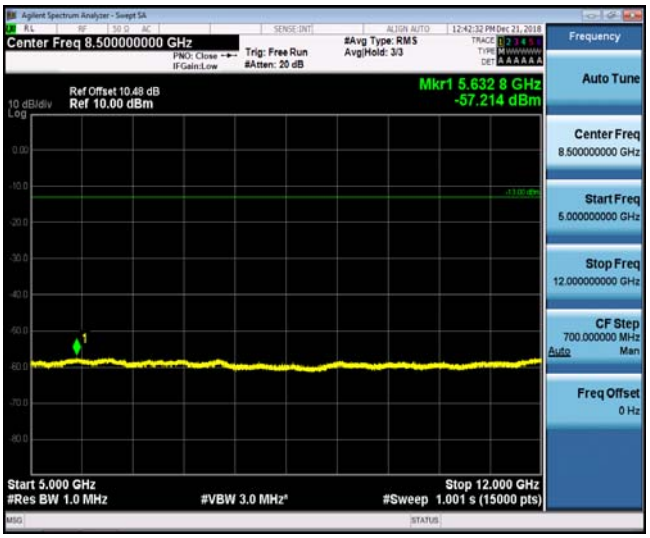

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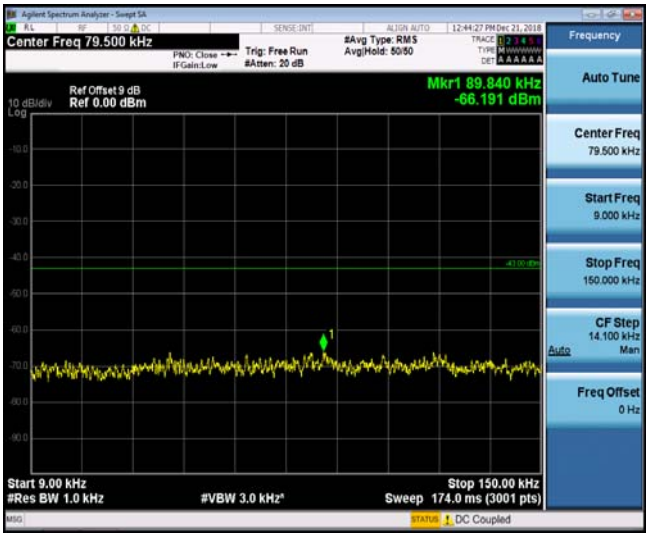
Band2_10MHz_QPSK_18650_1RB#0



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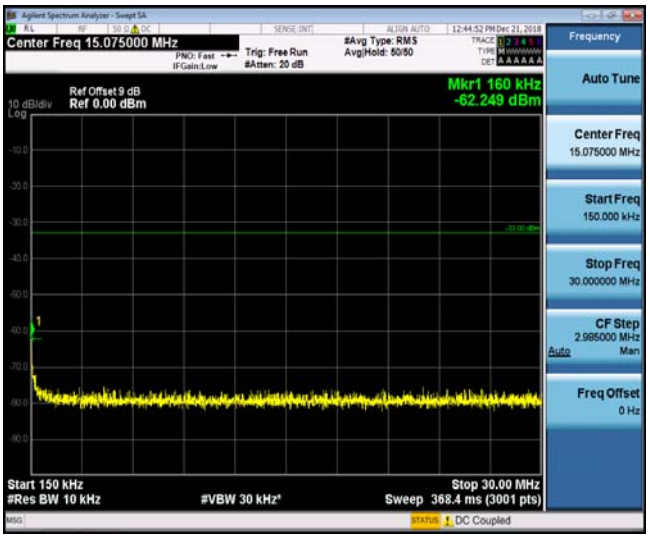

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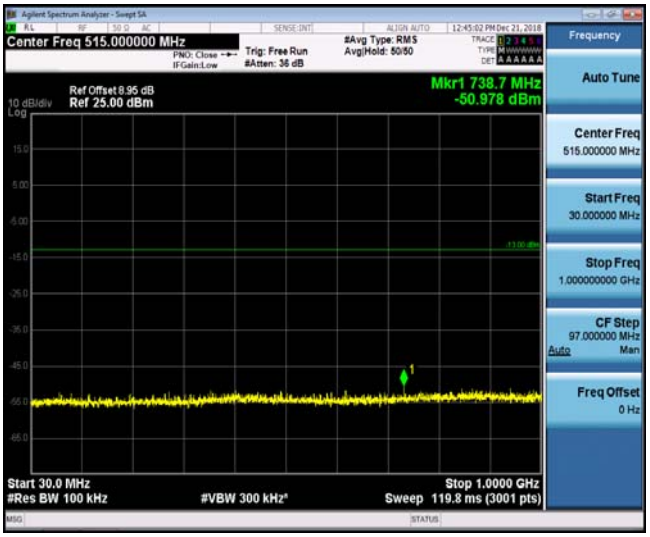

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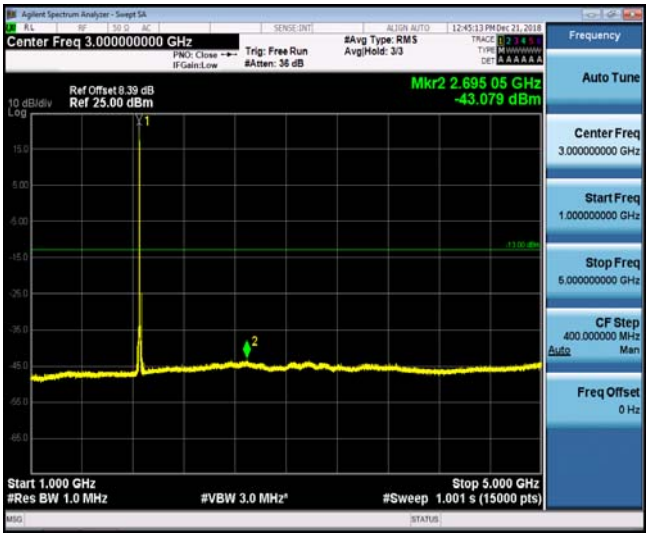

Band2_10MHz_QPSK_18650_1RB#0

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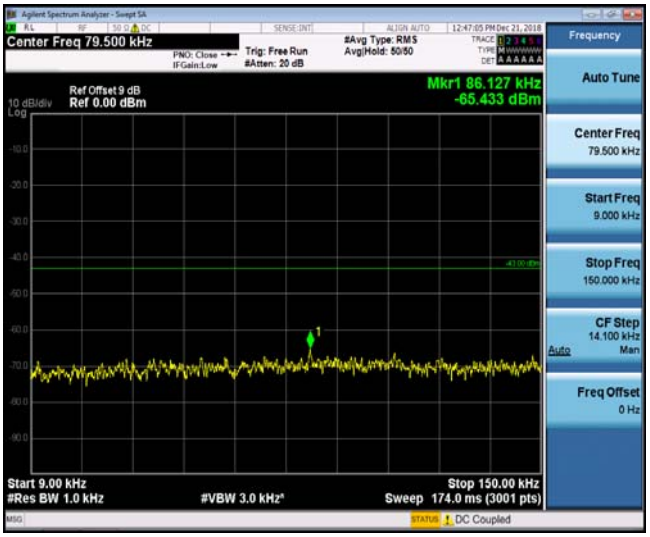
Band2_10MHz_QPSK_18900_1RB#0



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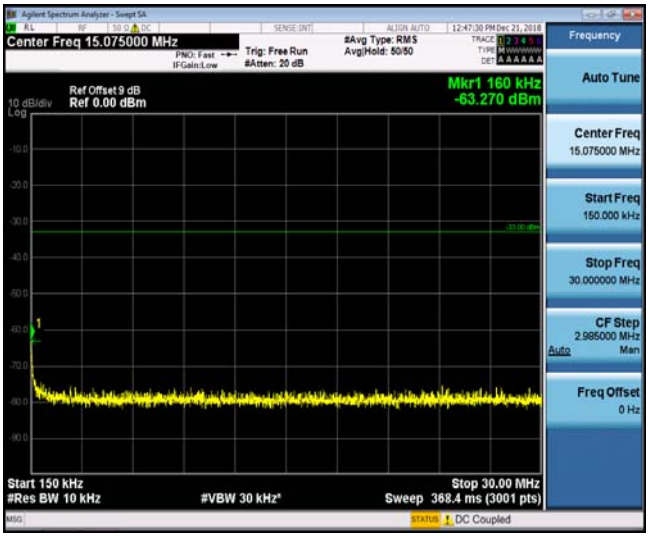

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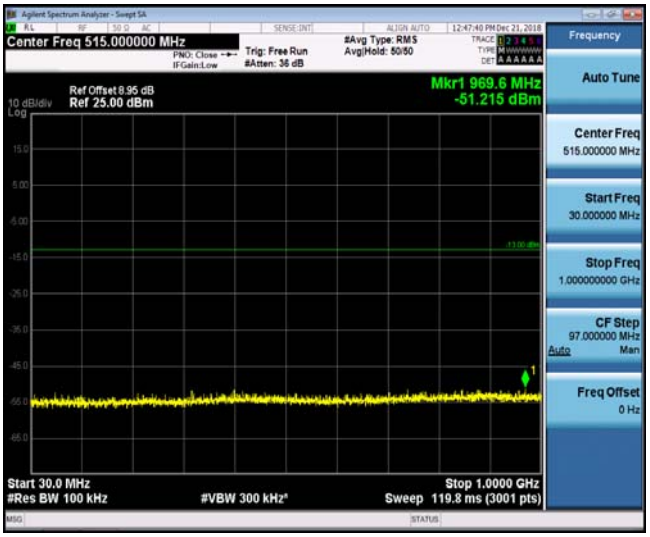

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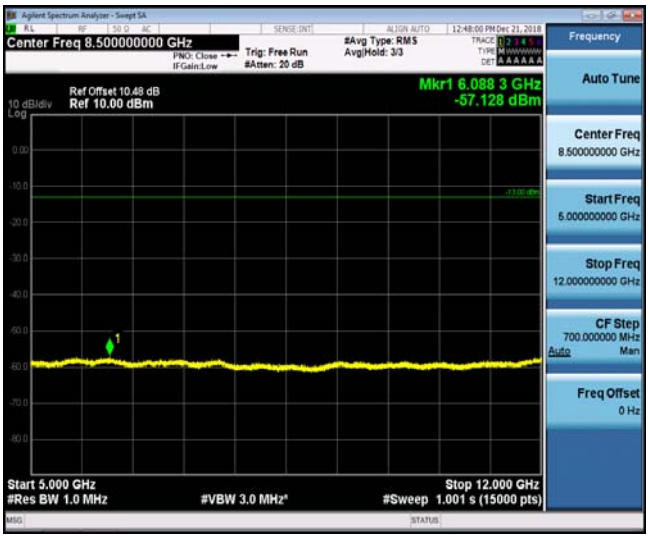

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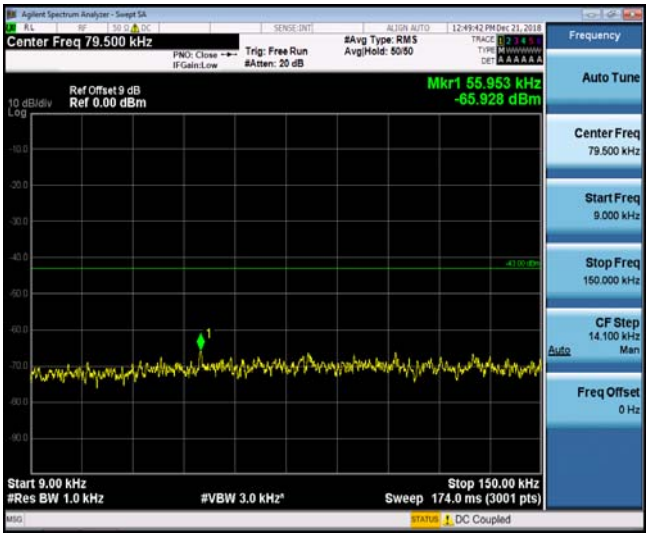

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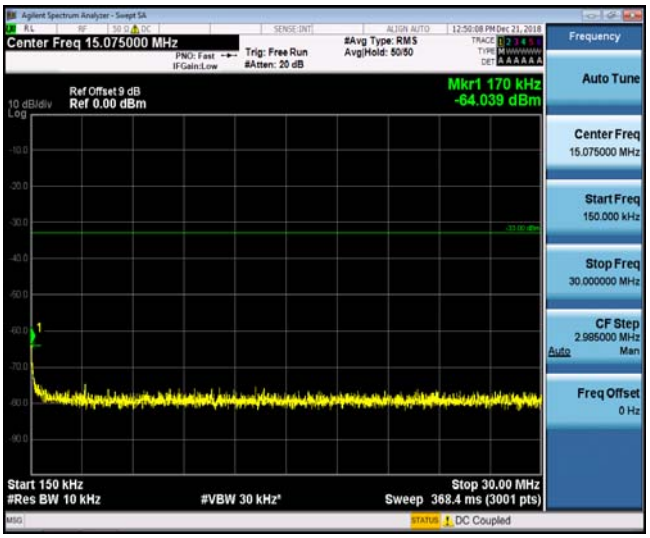

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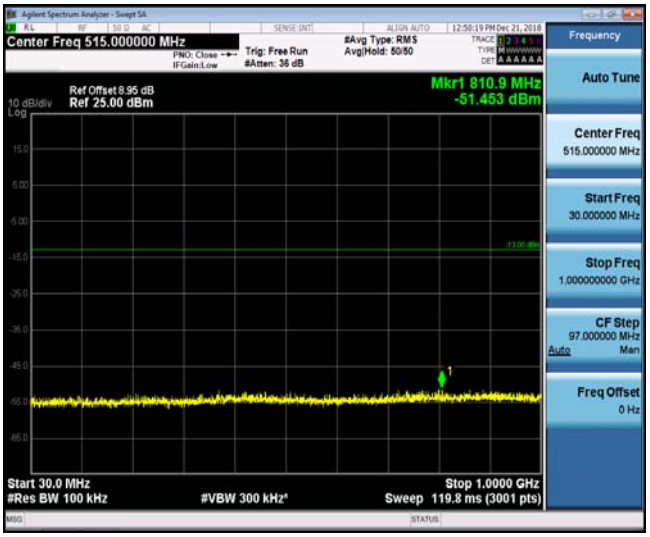

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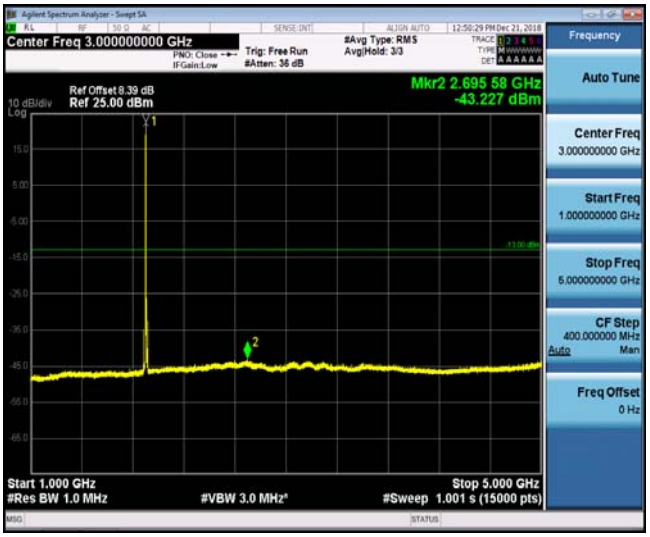

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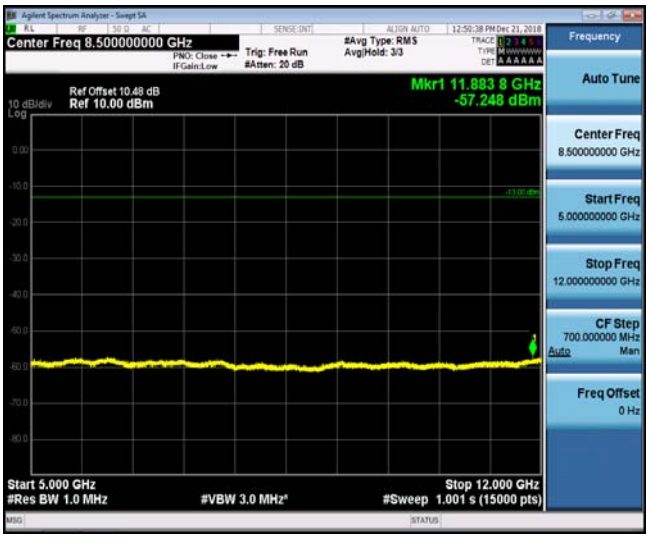

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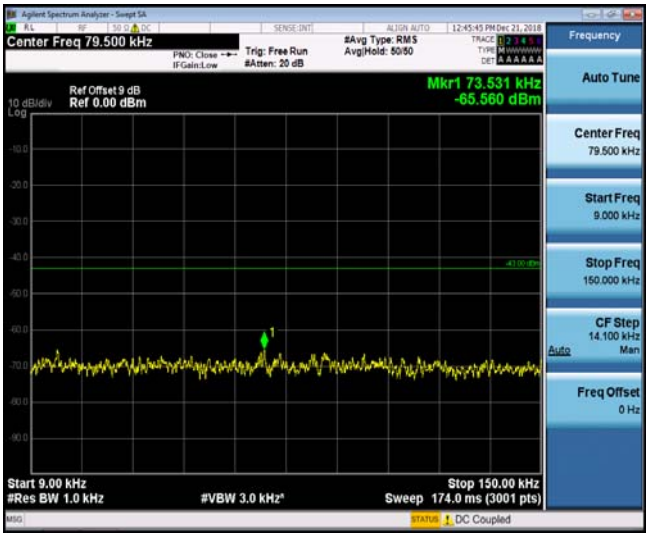
Band2_10MHz_16QAM_18650_1RB#0



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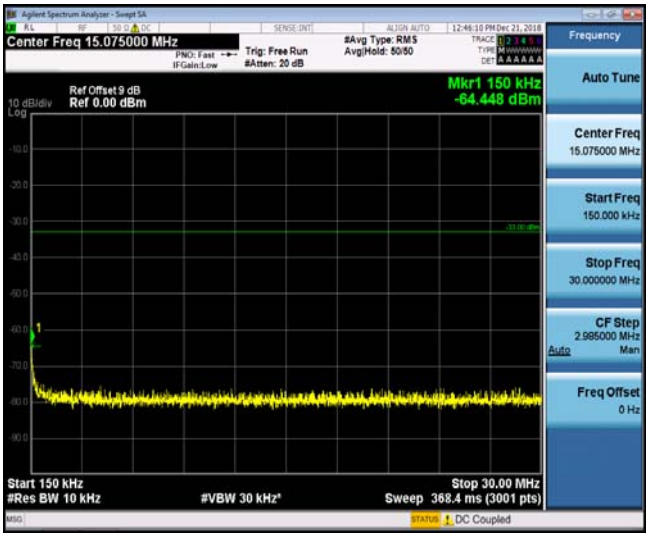

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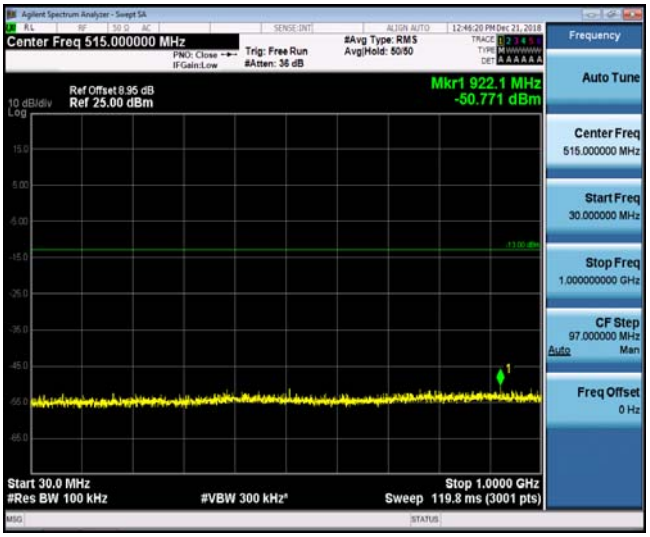

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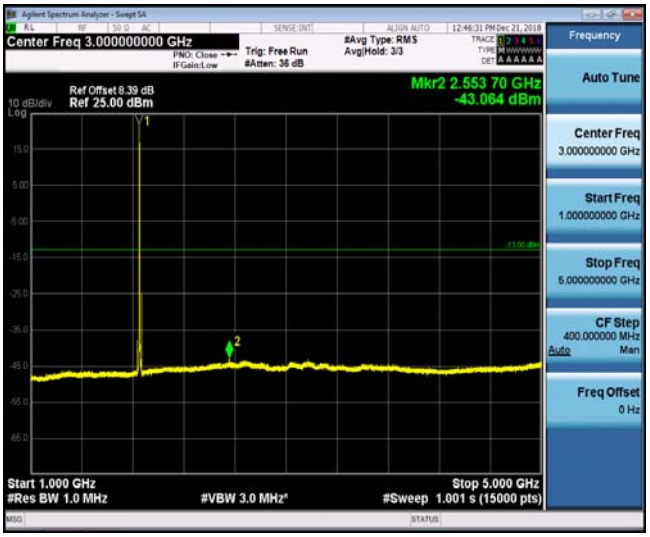

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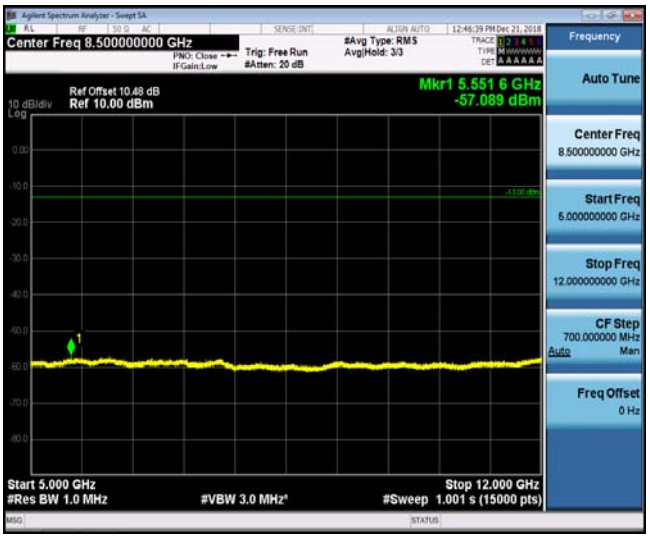

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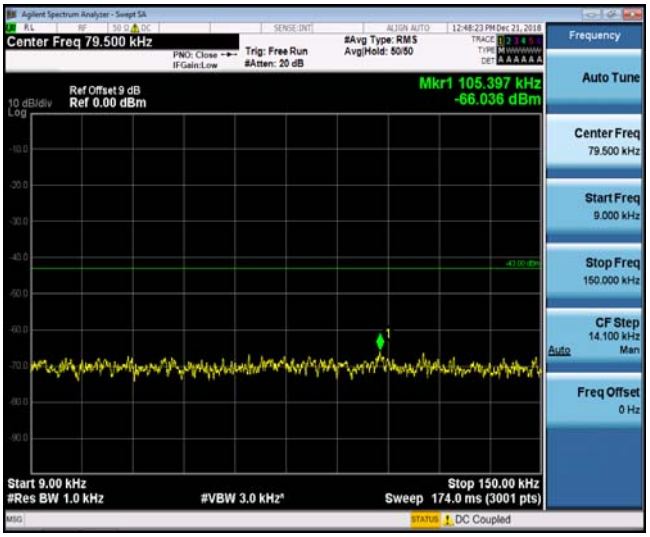

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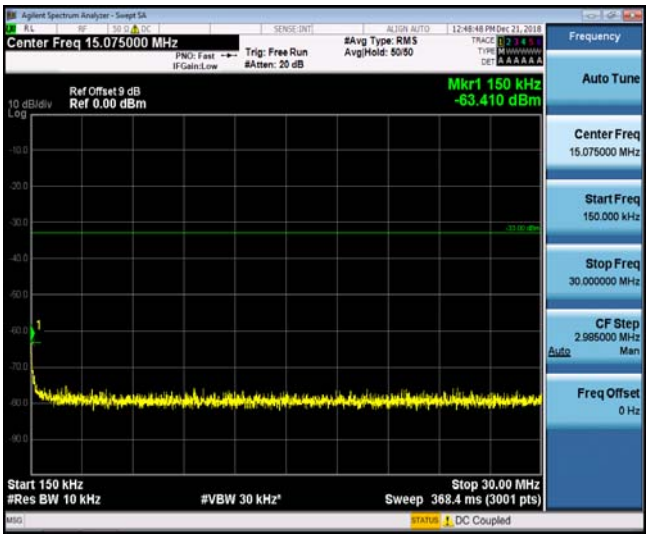

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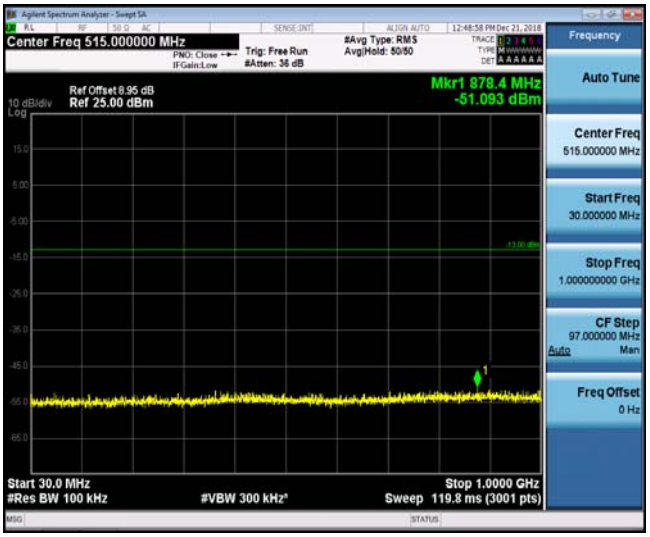

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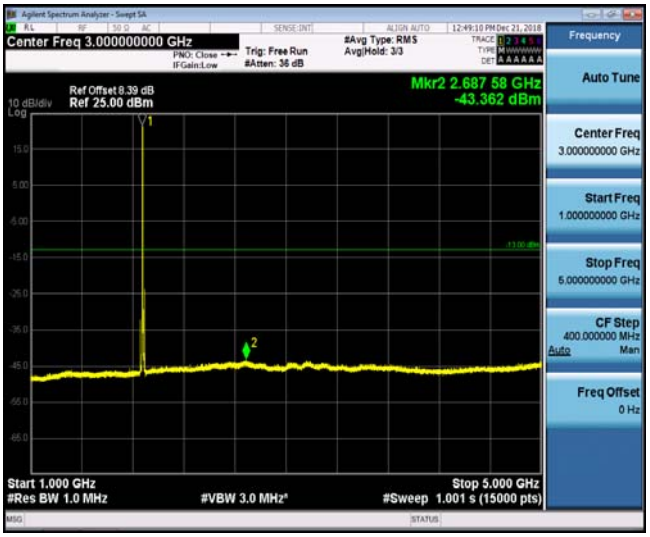
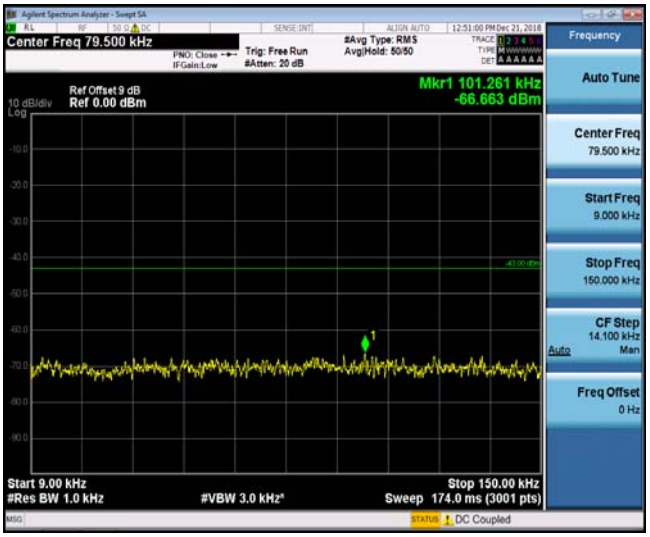


Band2_10MHz_16QAM_18900_1RB#0

Band2_10MHz_16QAM_18900_1RB#0

Band2_10MHz_16QAM_19150_1RB#0



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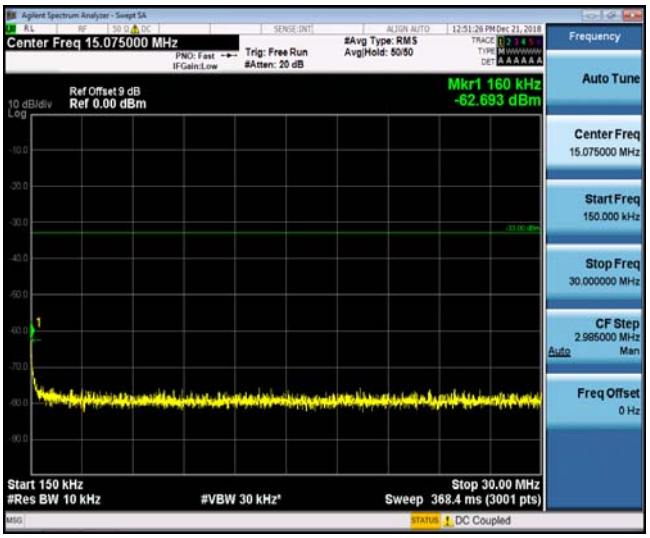

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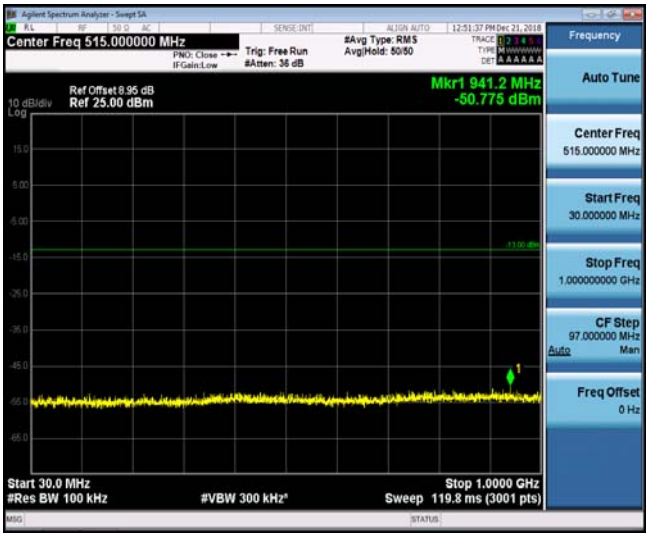

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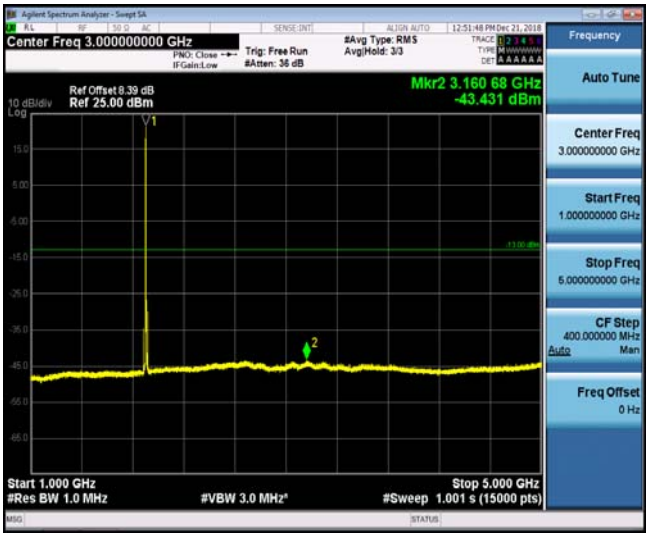

Band2_10MHz_16QAM_19150_1RB#0

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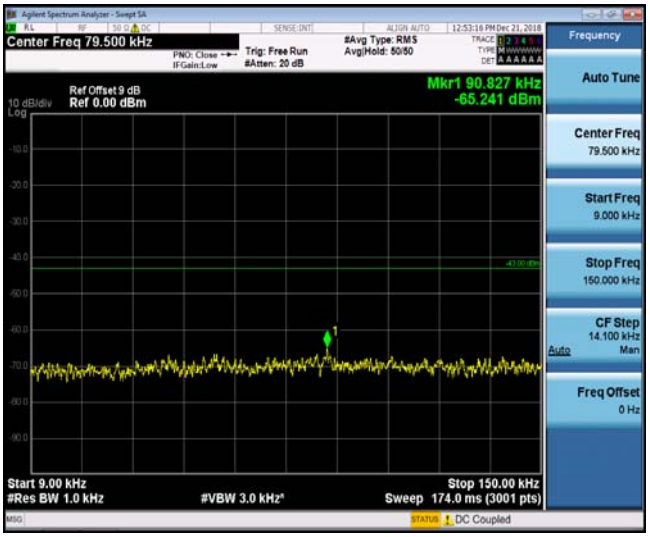
Band2_15MHz_QPSK_18675_1RB#0



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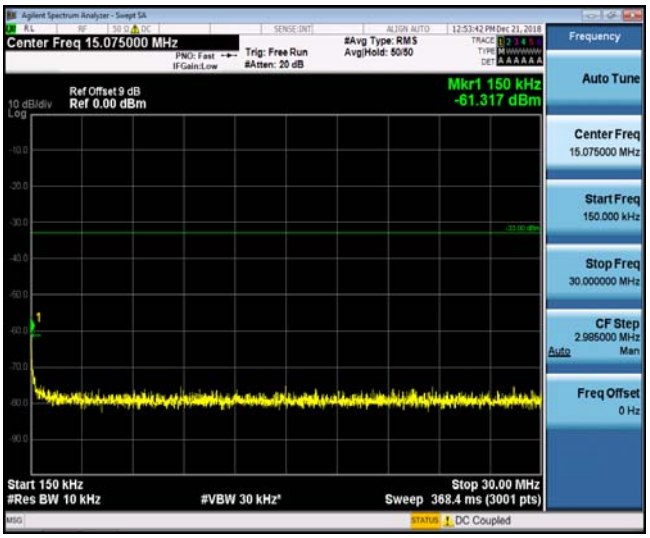

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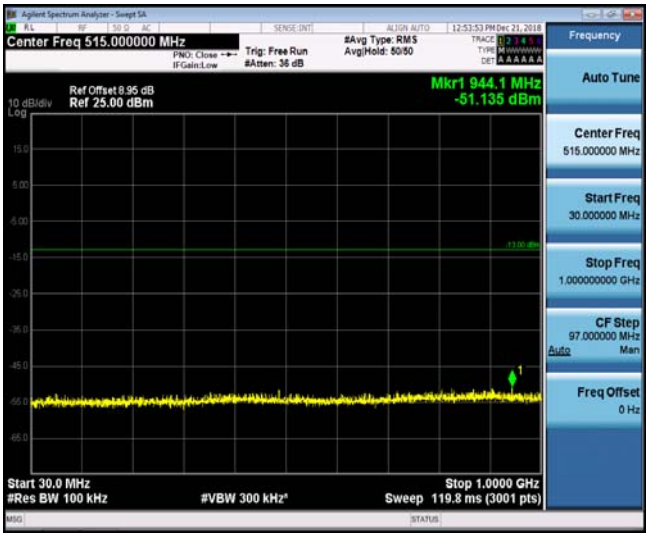

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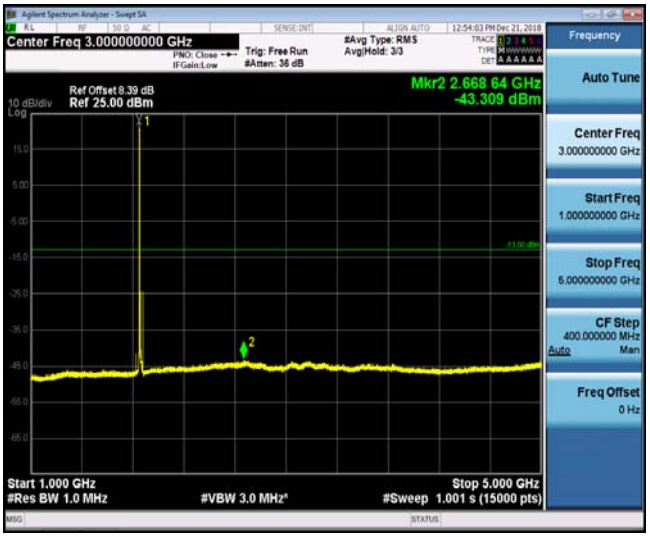
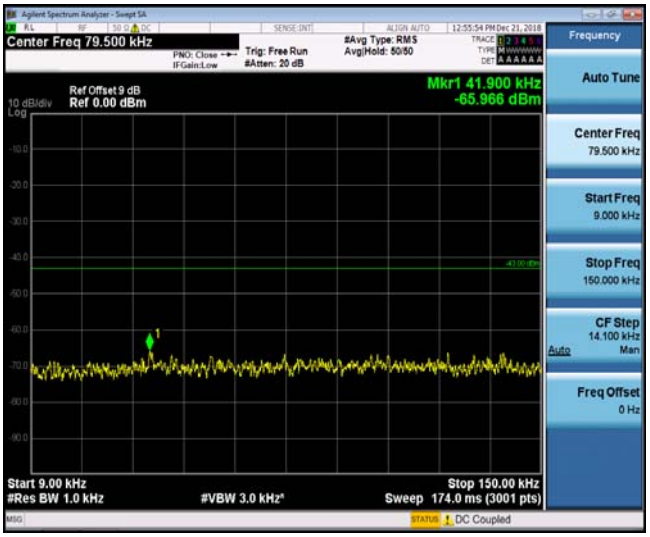


Band2_15MHz_QPSK_18675_1RB#0

Band2_15MHz_QPSK_18675_1RB#0

Band2_15MHz_QPSK_18900_1RB#0



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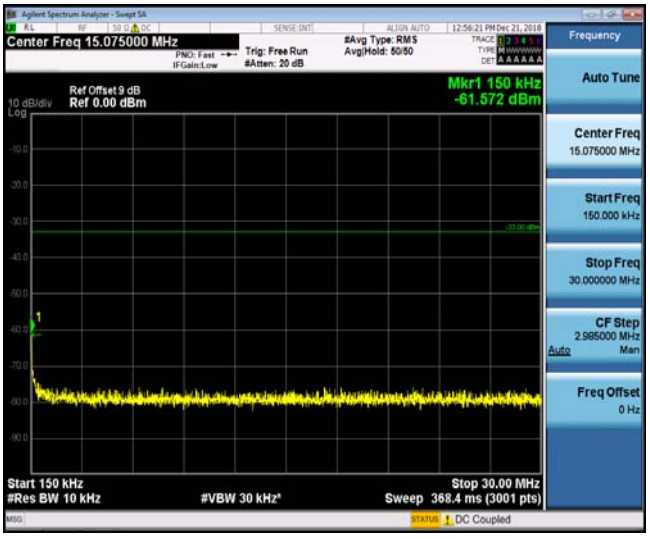

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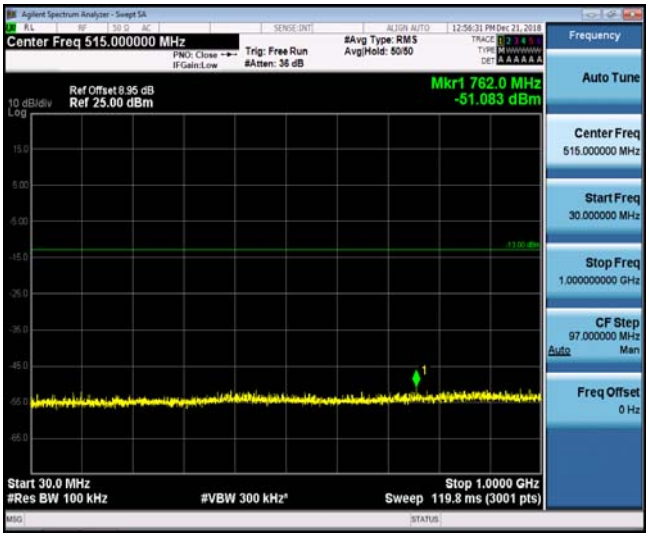

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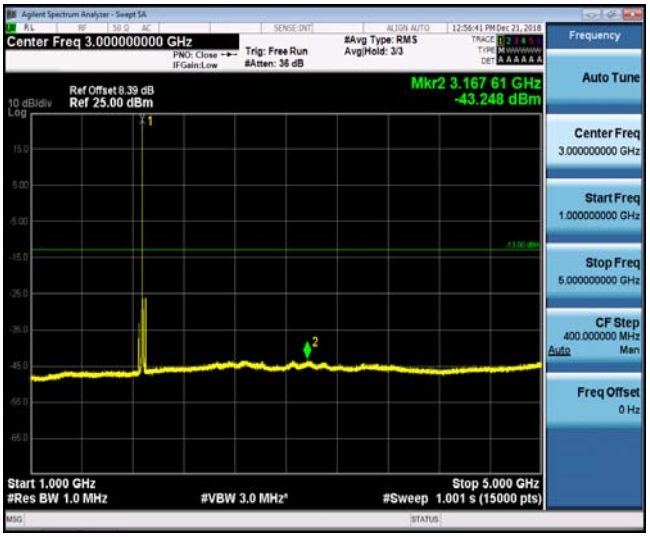

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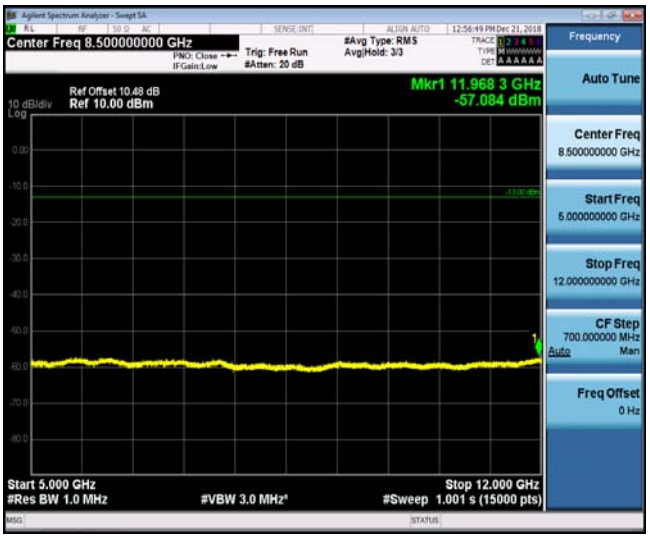

Band2_15MHz_QPSK_18900_1RB#0

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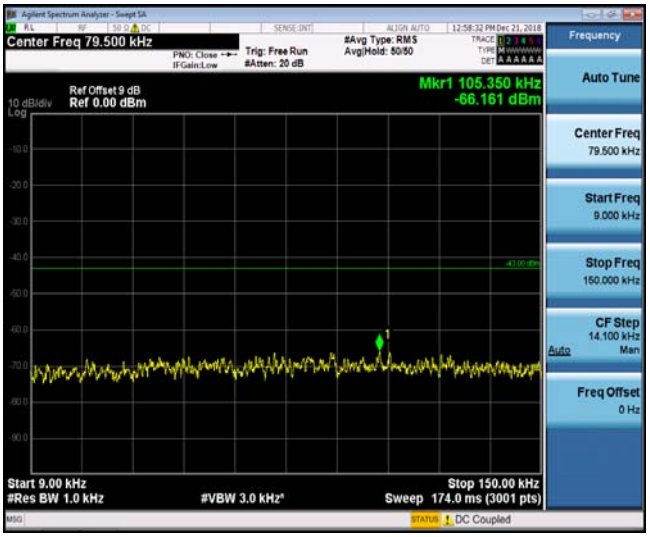

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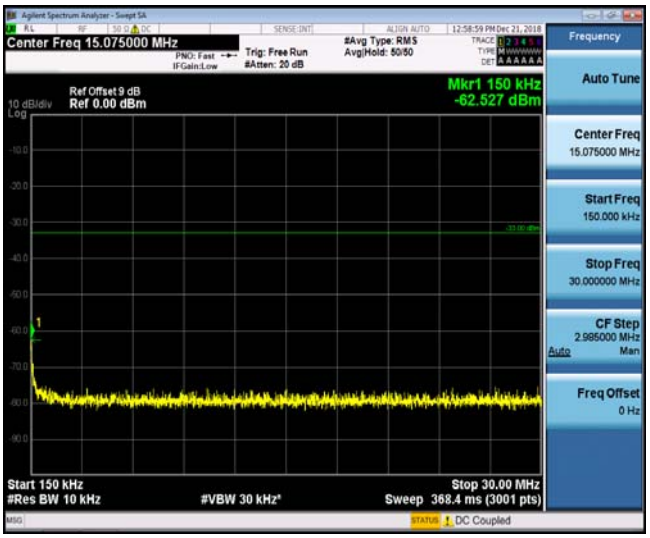

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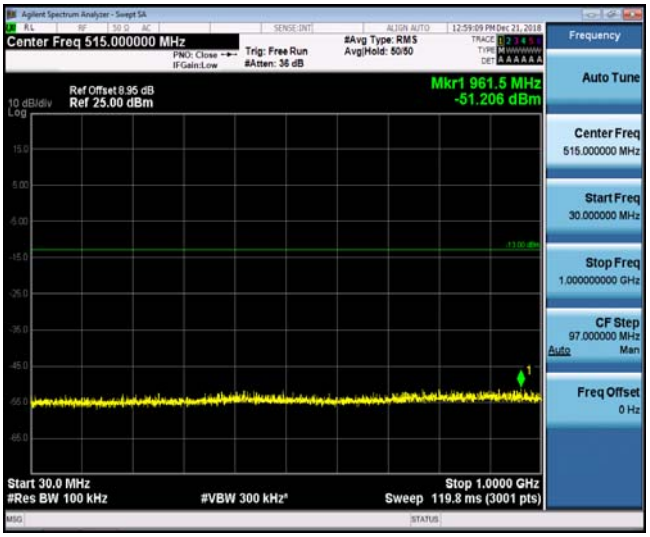

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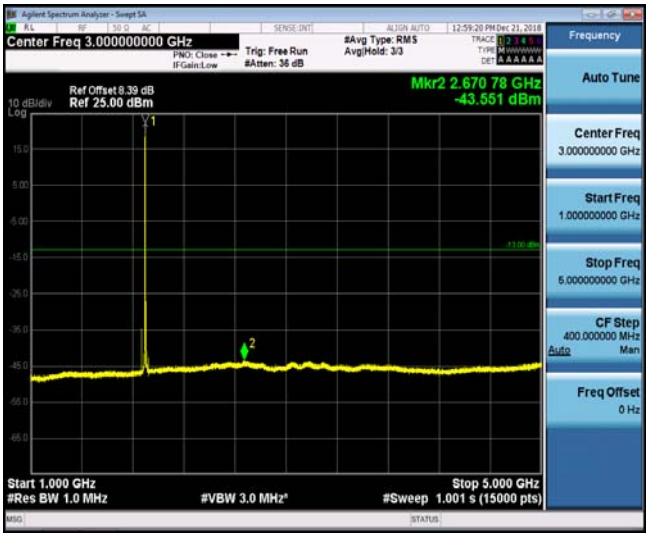

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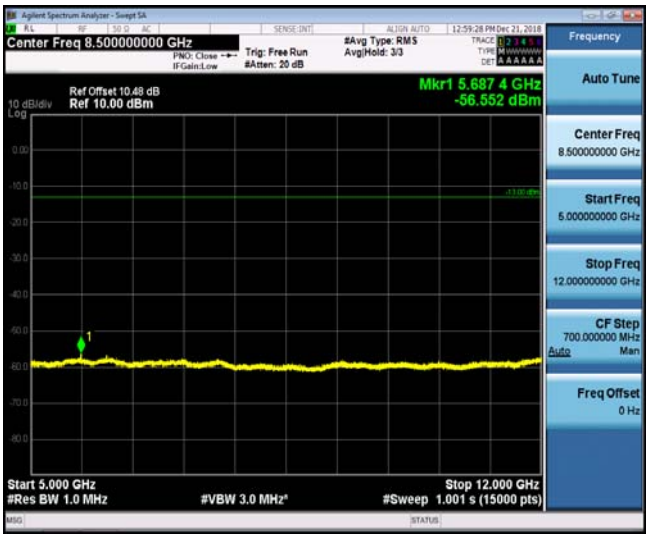
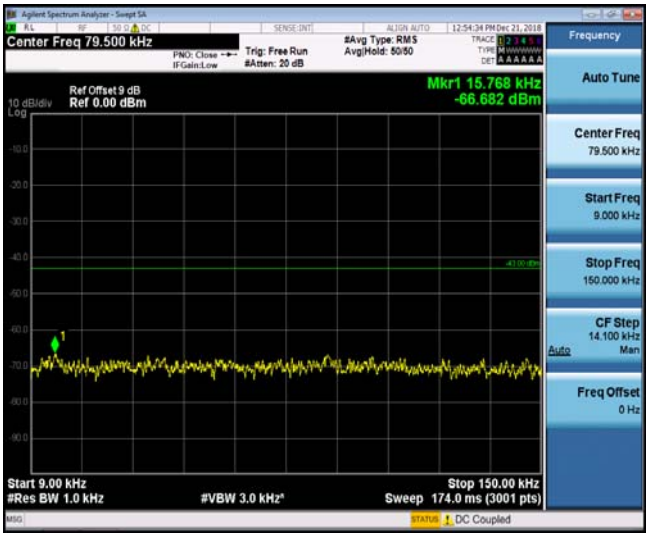


Band2_15MHz_QPSK_19125_1RB#0

Band2_15MHz_16QAM_18675_1RB#0



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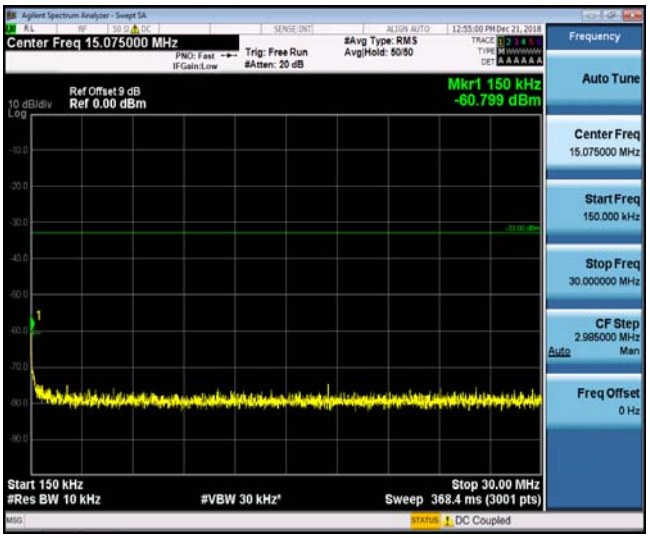

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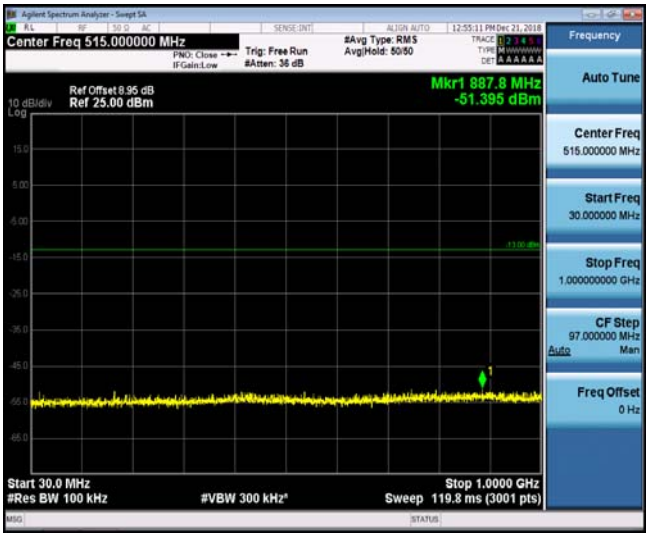

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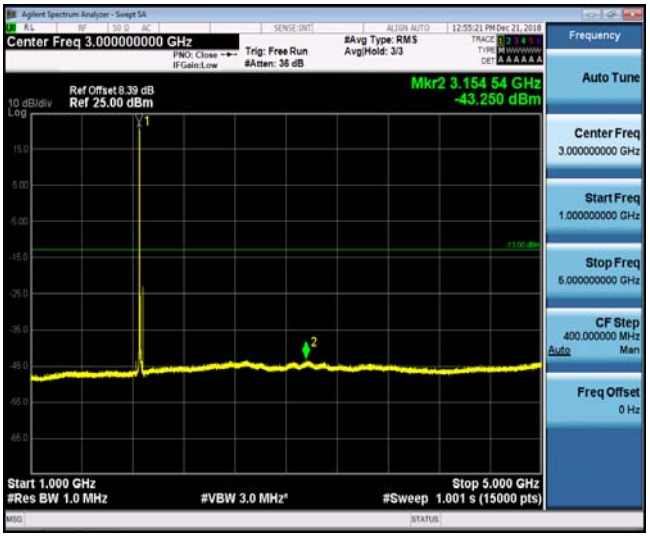

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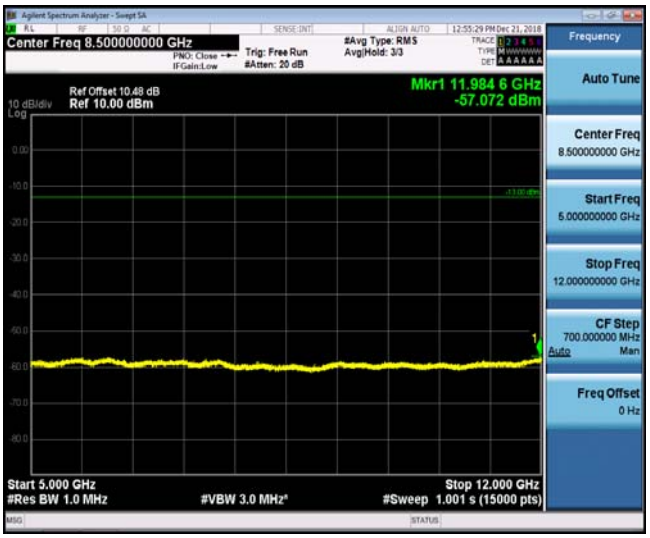

Band2_15MHz_16QAM_18675_1RB#0

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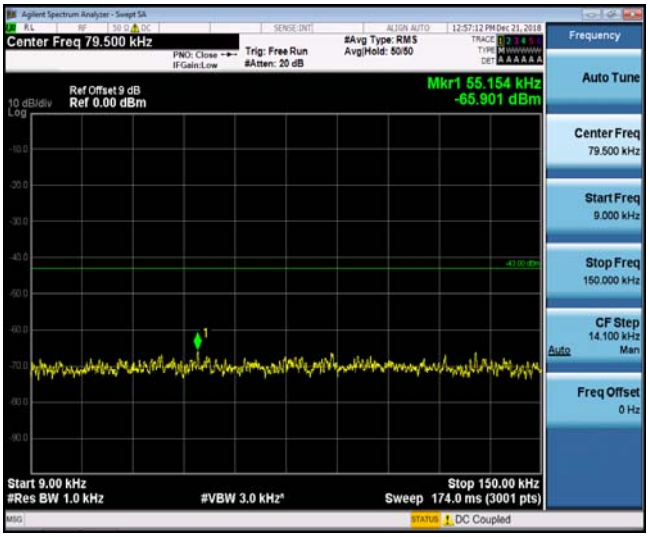

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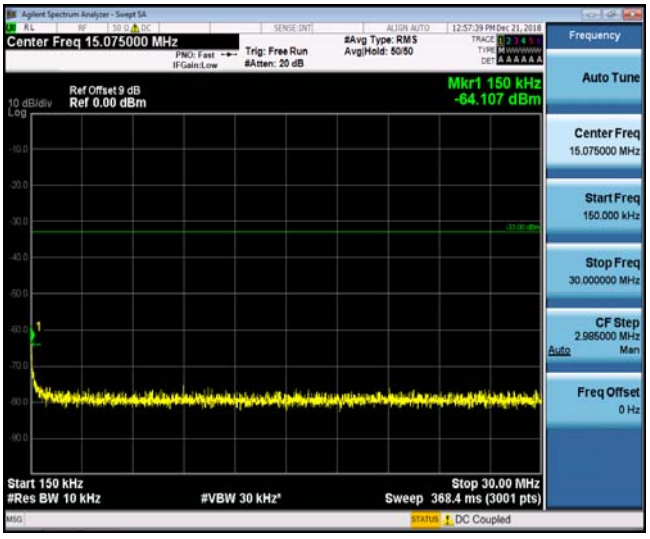

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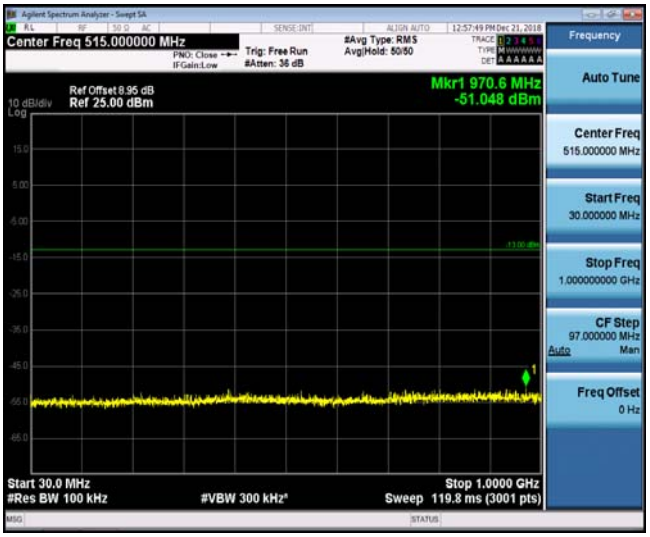

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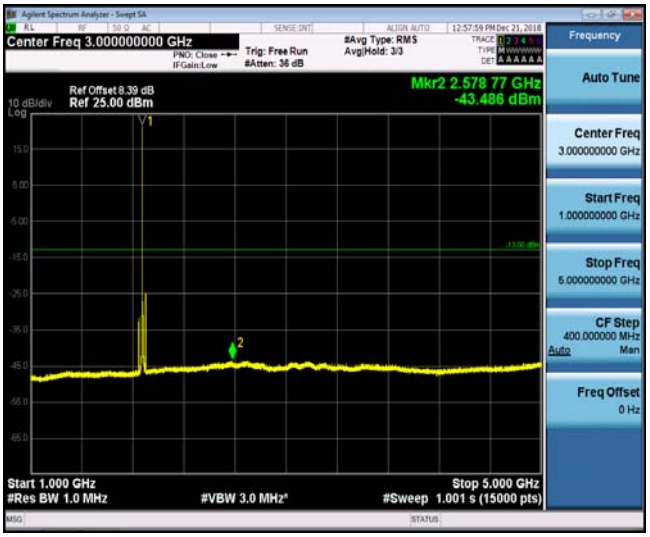

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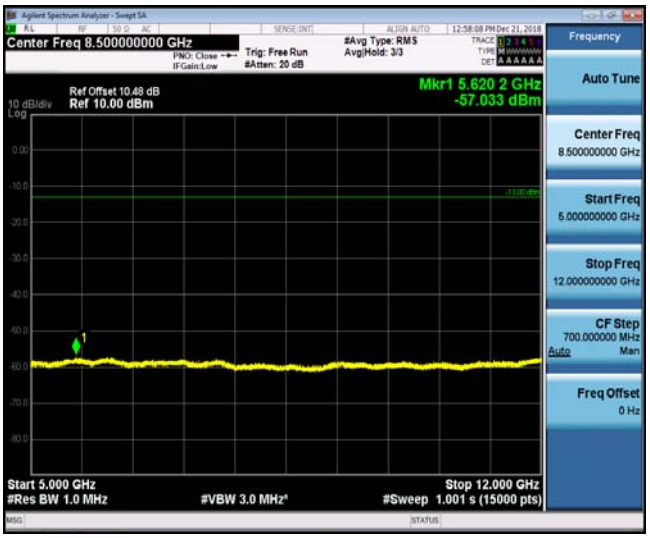
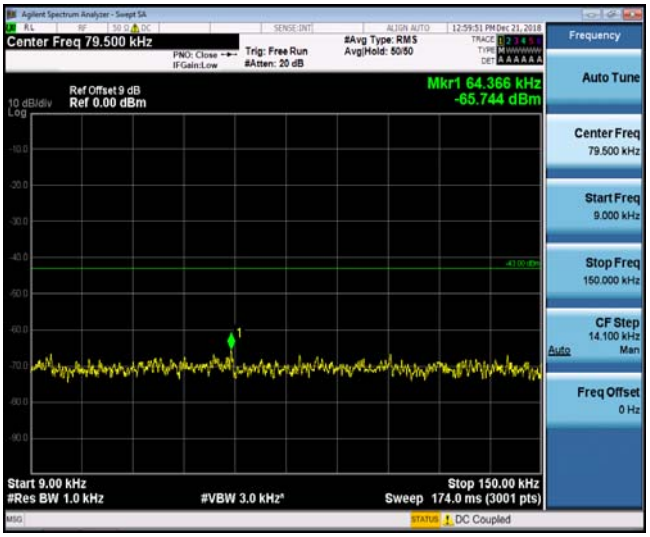


Band2_15MHz_16QAM_18900_1RB#0

Band2_15MHz_16QAM_19125_1RB#0



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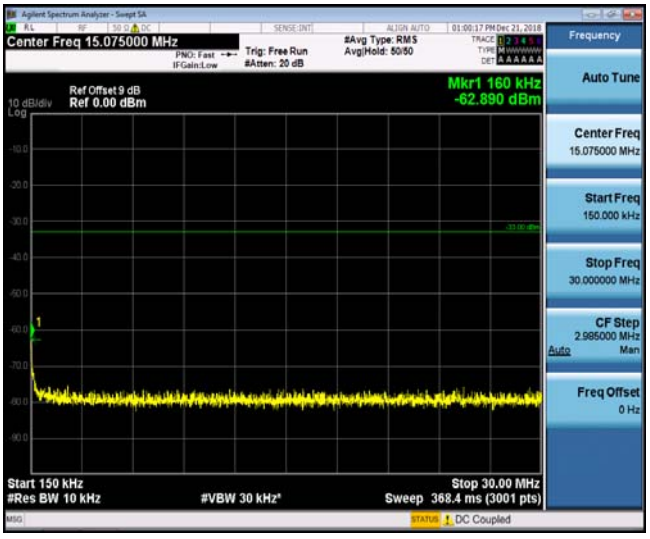

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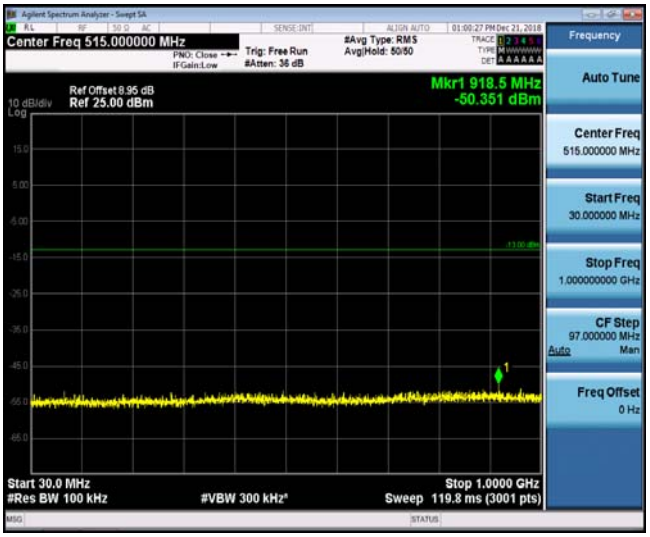

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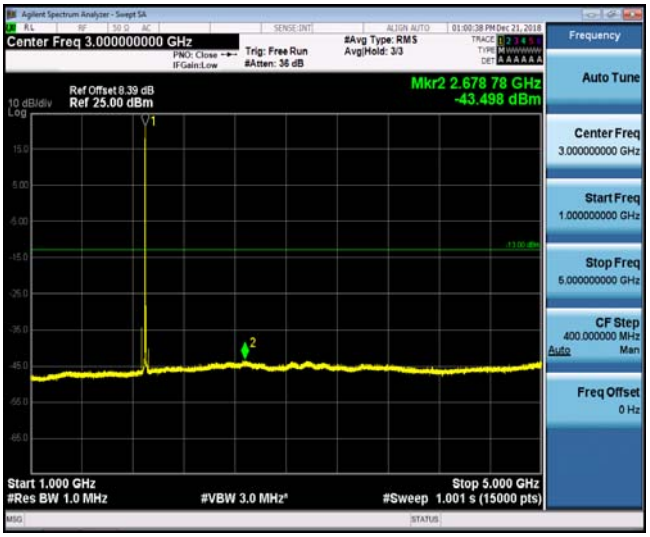
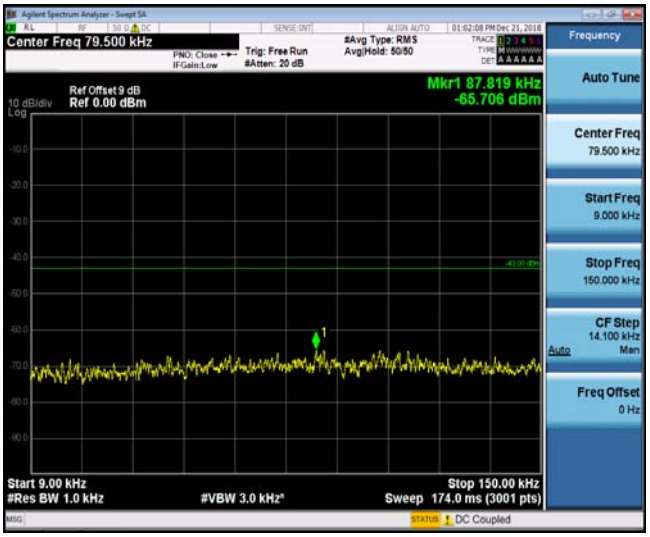


Band2_15MHz_16QAM_19125_1RB#0

Band2_15MHz_16QAM_19125_1RB#0

Band2_20MHz_QPSK_18700_1RB#0



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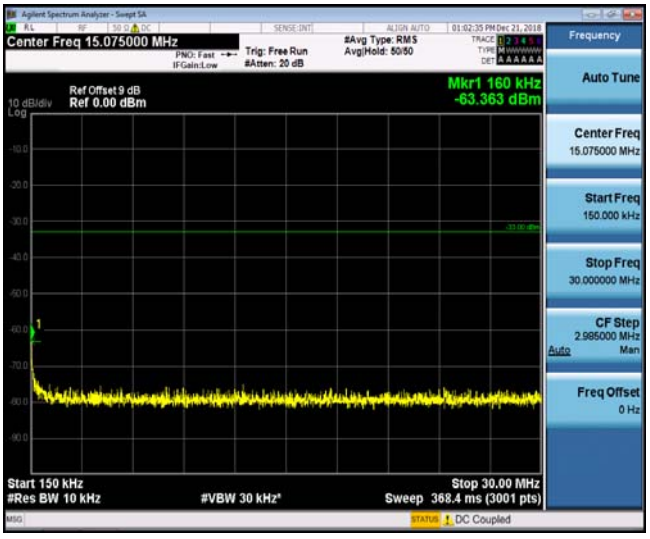

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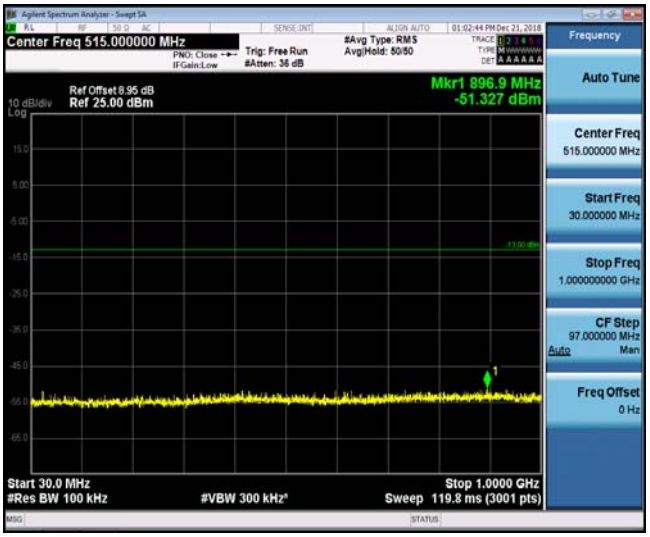

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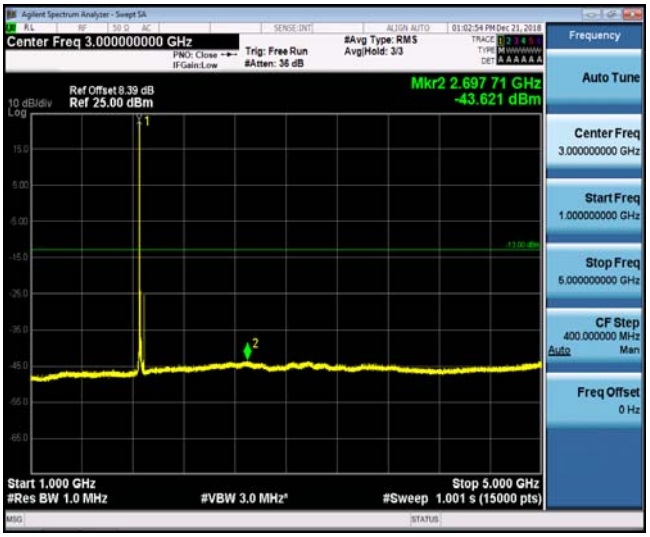

Band2_20MHz_QPSK_18700_1RB#0

Band2_20MHz_QPSK_18700_1RB#0

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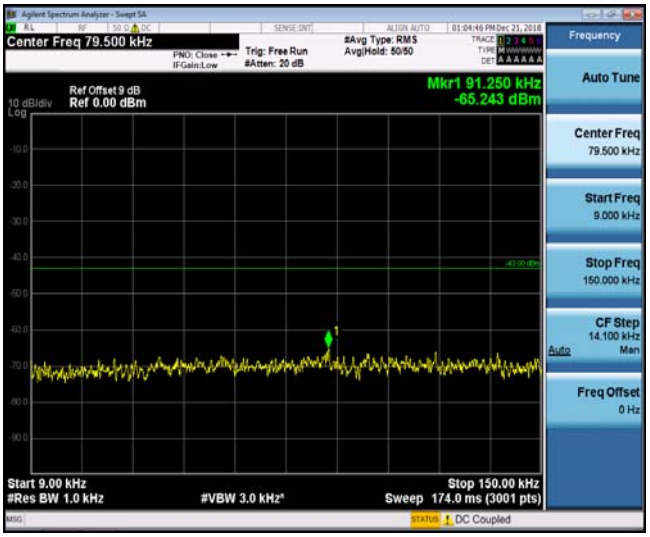

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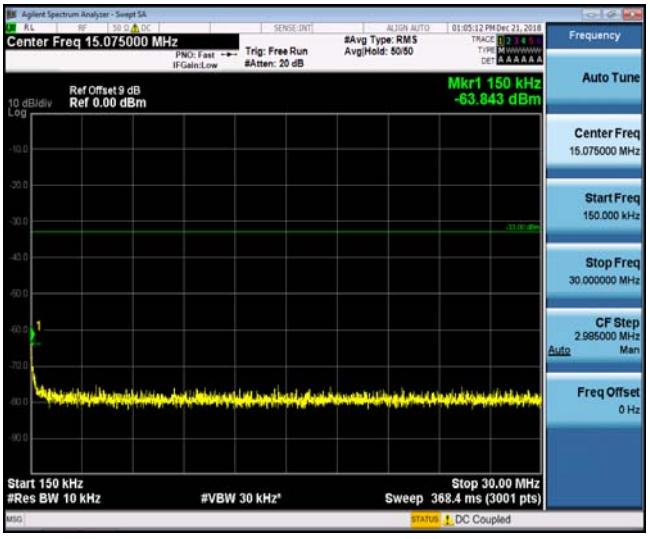

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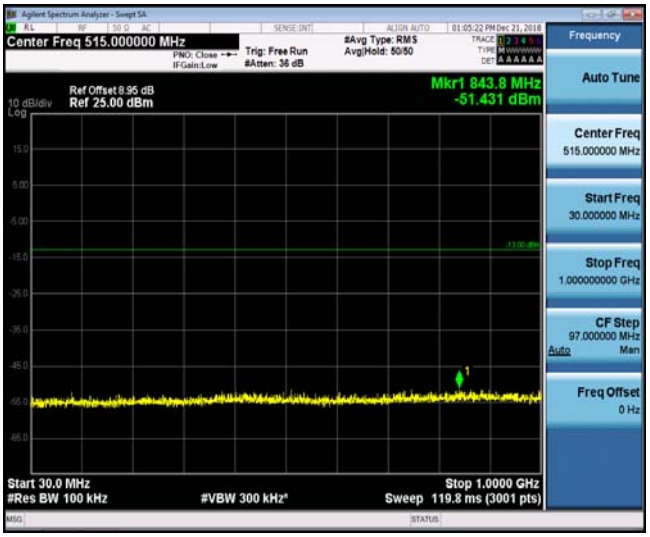

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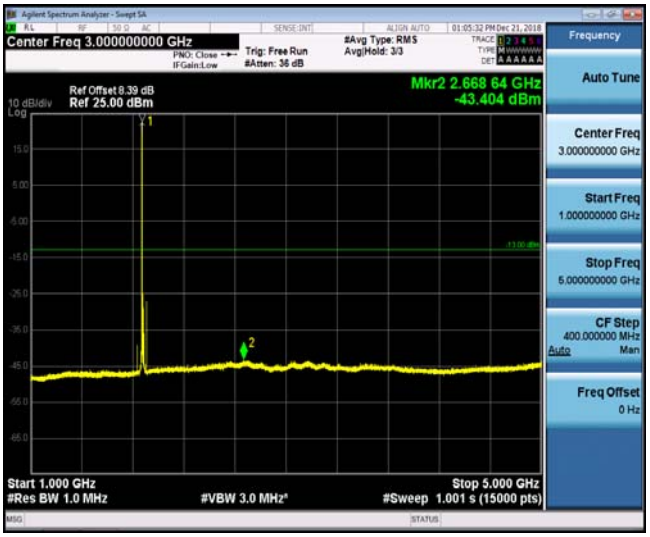

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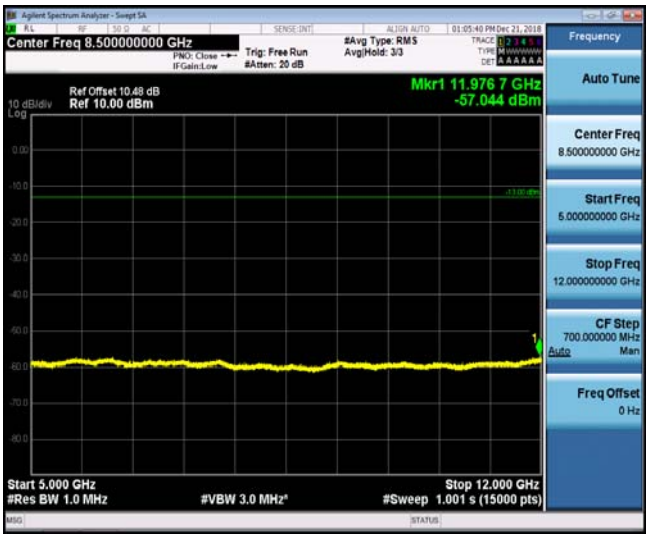

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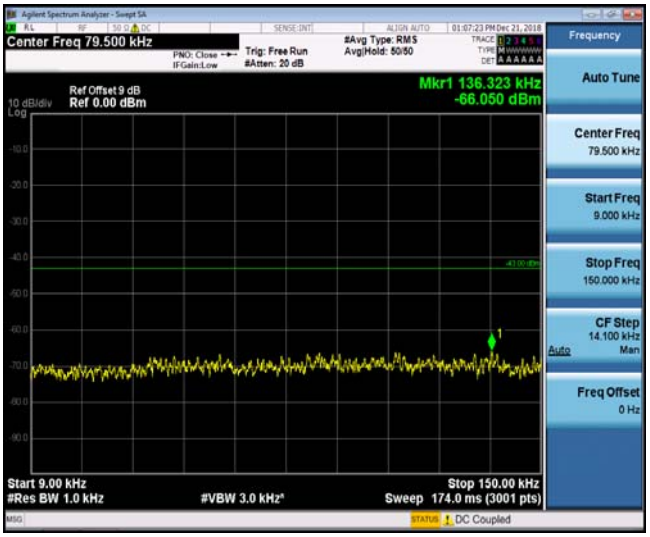

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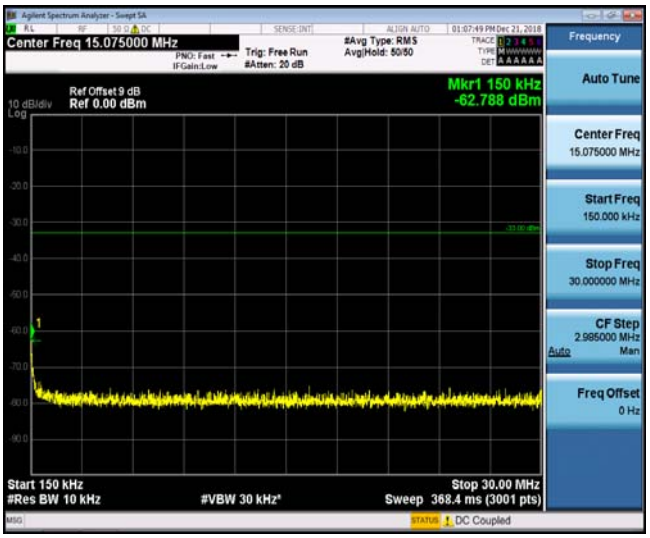

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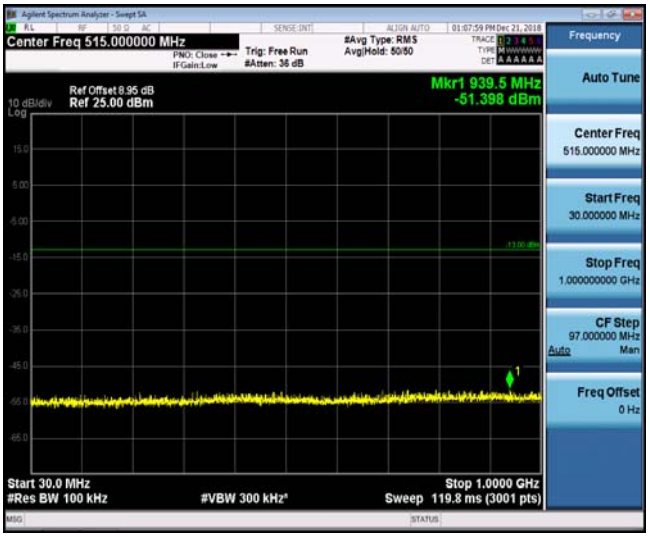

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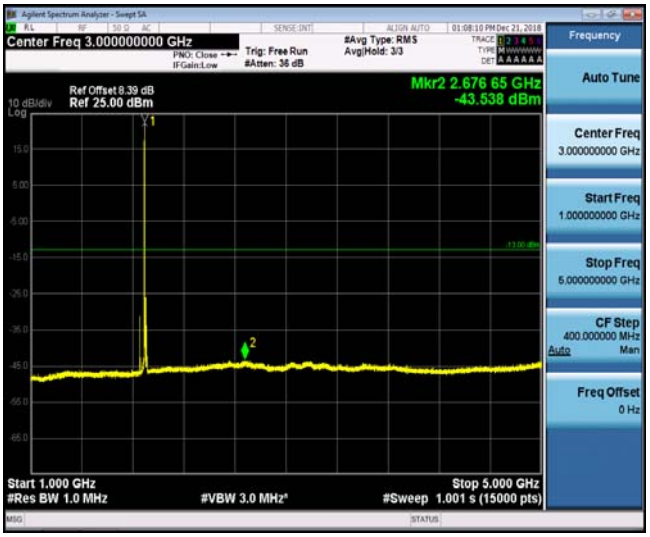
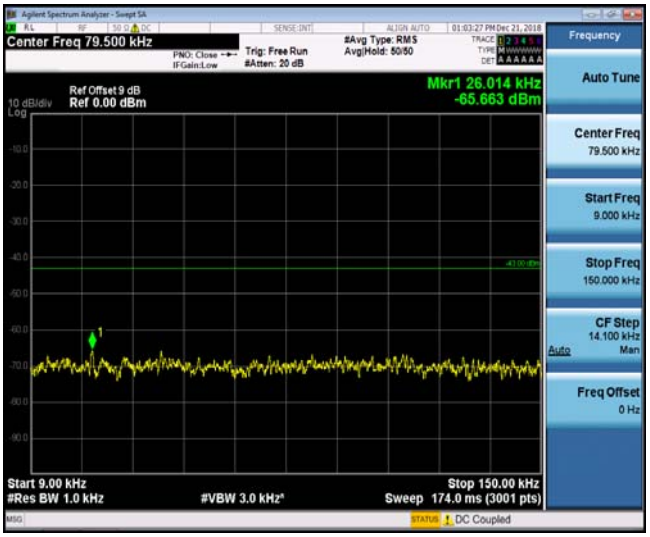


Band2_20MHz_QPSK_19100_1RB#0

Band2_20MHz_QPSK_19100_1RB#0

Band2_20MHz_16QAM_18700_1RB#0



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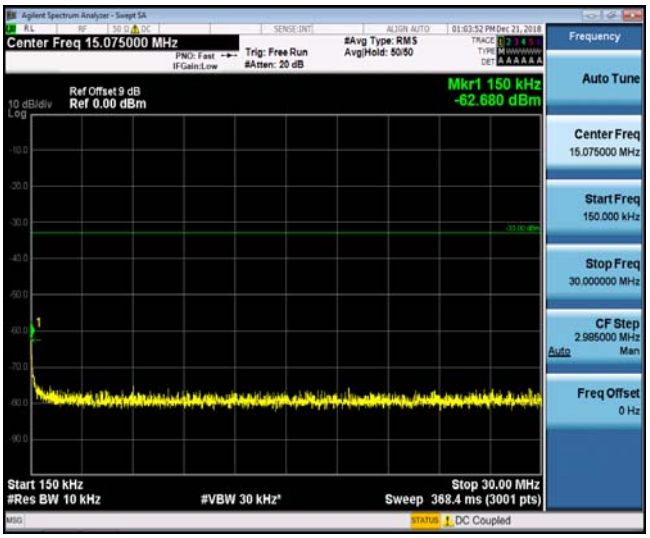
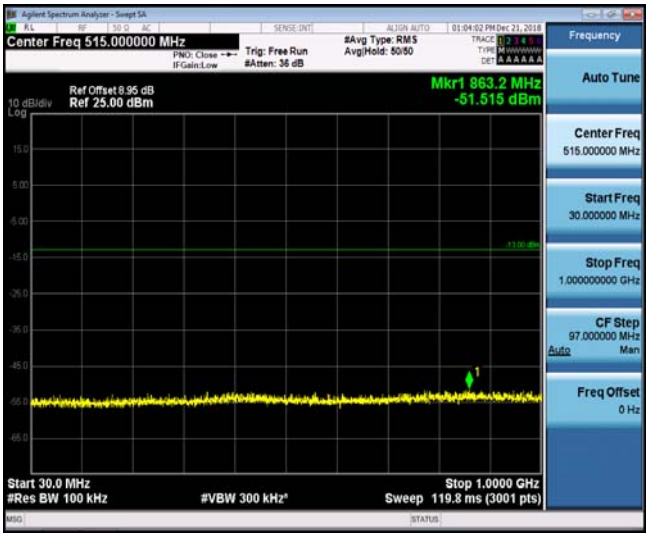
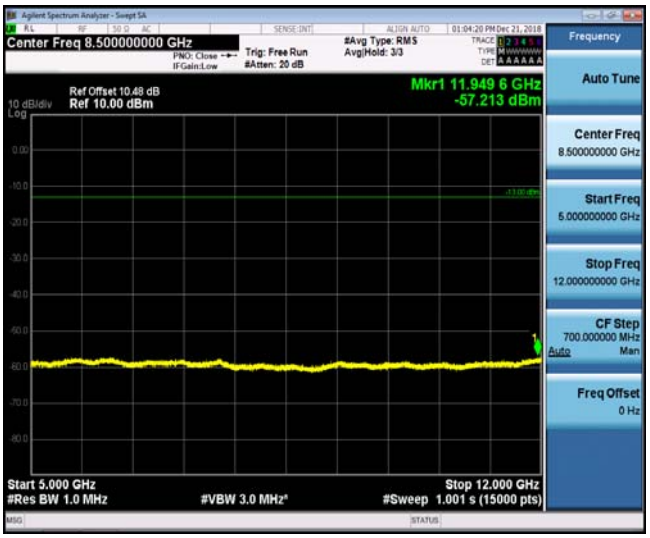


Band2_20MHz_16QAM_18700_1RB#0



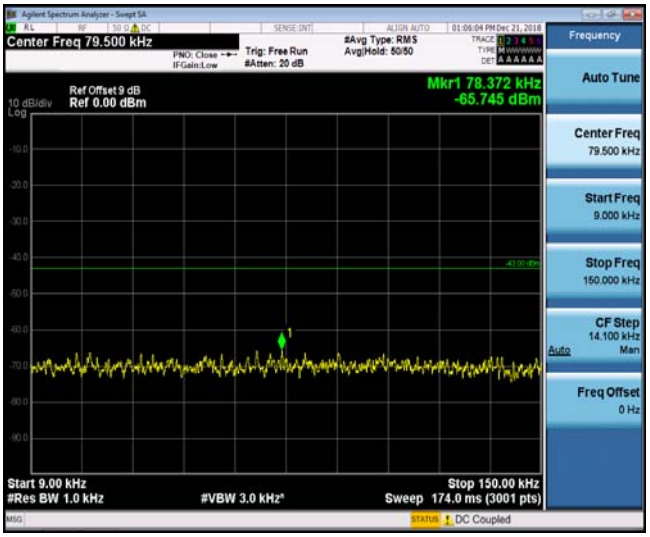
Band2_20MHz_16QAM_18700_1RB#0

Band2_20MHz_16QAM_18700_1RB#0



Band2_20MHz_16QAM_18700_1RB#0

Band2_20MHz_16QAM_18900_1RB#0



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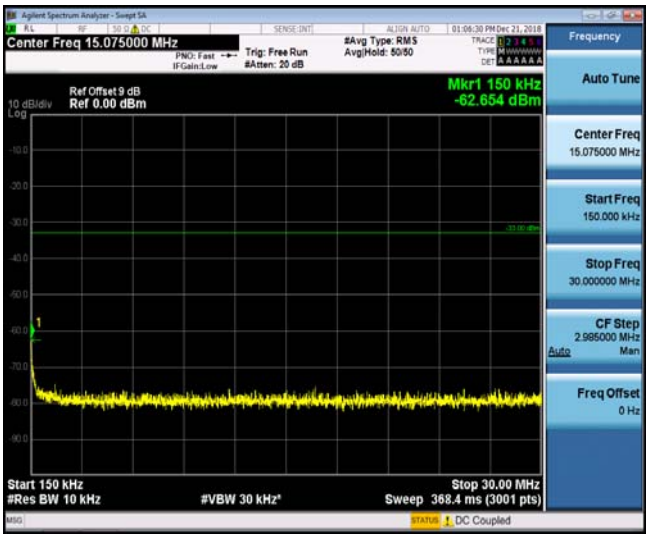
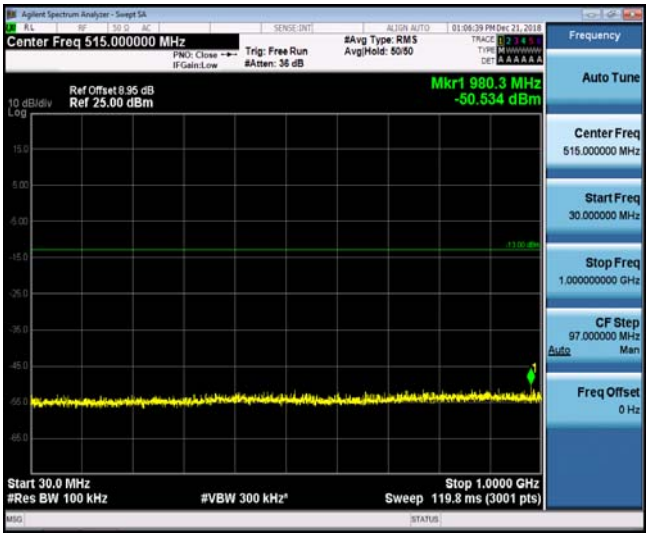
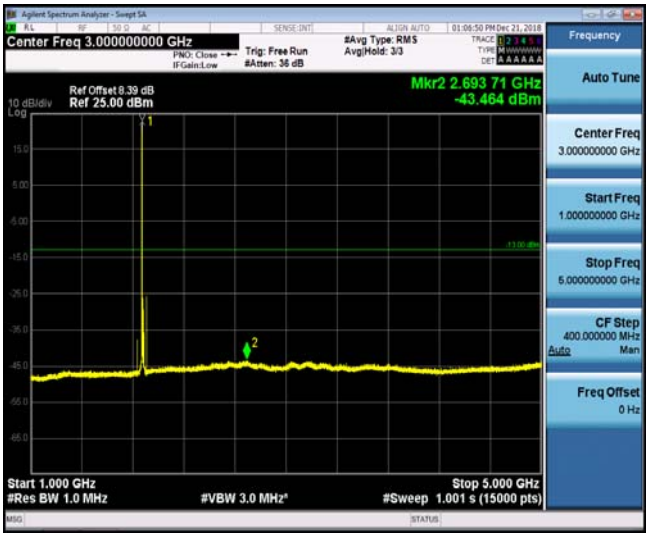


Band2_20MHz_16QAM_18900_1RB#0



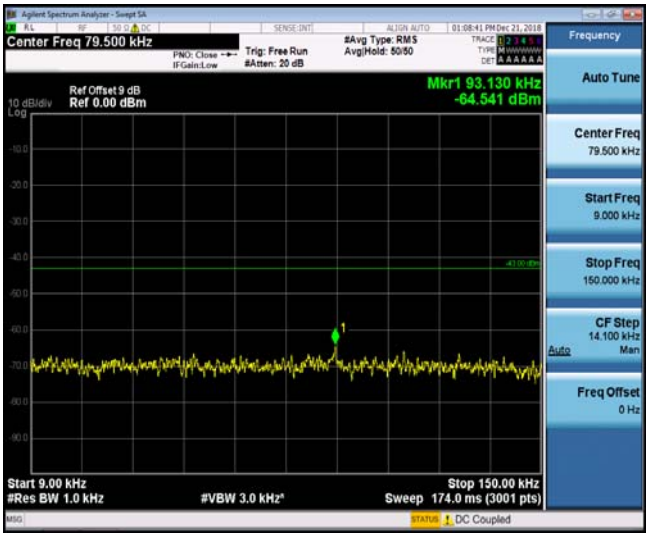
Band2_20MHz_16QAM_18900_1RB#0



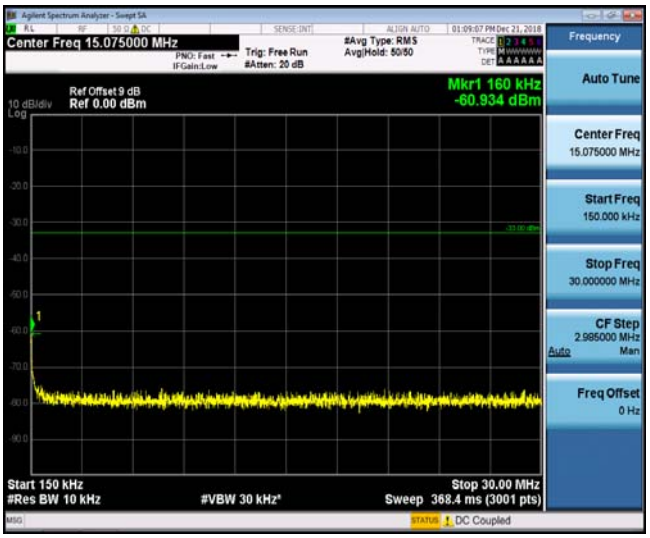
Band2_20MHz_16QAM_18900_1RB#0

Band2_20MHz_16QAM_18900_1RB#0

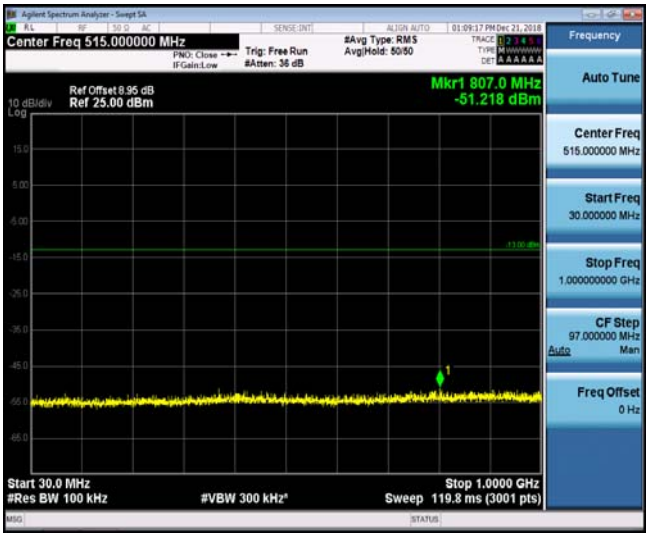
Band2_20MHz_16QAM_19100_1RB#0



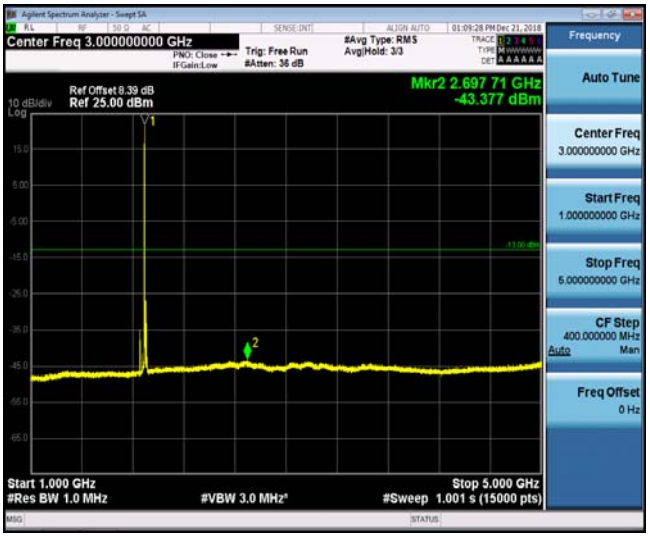
Band2_20MHz_16QAM_19100_1RB#0



Band2_20MHz_16QAM_19100_1RB#0



Band2_20MHz_16QAM_19100_1RB#0



Band2_20MHz_16QAM_19100_1RB#0

Band2_20MHz_16QAM_19100_1RB#0


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.000000000 GHz
PNO: Close
IFGain:Low
Trig: Free Run
#Atten: 20 dB
#Avg Type: RMS
Avg|Hold: 3/3
01:09:44 PM Dec 21, 2018
Frequency
Ref Offset 18.76 dB
10 dB/div
Ref 10.00 dBm
Mkr1 16.470 7 GHz
-44.155 dBm
Auto Tune
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: 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	4.79	0.002588	± 2.5	PASS
		VN	TN	-1.16	-0.000627	± 2.5	PASS
		VH	TN	3.71	0.002005	± 2.5	PASS
	MCH	VL	TN	-0.32	-0.000170	± 2.5	PASS
		VN	TN	3.34	0.001777	± 2.5	PASS
		VH	TN	2.17	0.001154	± 2.5	PASS
	HCH	VL	TN	1.74	0.000911	± 2.5	PASS
		VN	TN	3.17	0.001660	± 2.5	PASS
		VH	TN	2.20	0.001152	± 2.5	PASS
16QAM	LCH	VL	TN	4.55	0.002459	± 2.5	PASS
		VN	TN	0.92	0.000497	± 2.5	PASS
		VH	TN	0.49	0.000265	± 2.5	PASS
	MCH	VL	TN	3.85	0.002048	± 2.5	PASS
		VN	TN	0.85	0.000452	± 2.5	PASS
		VH	TN	4.29	0.002282	± 2.5	PASS
	HCH	VL	TN	0.37	0.000194	± 2.5	PASS
		VN	TN	3.94	0.002064	± 2.5	PASS
		VH	TN	4.96	0.002598	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.75	0.000405	± 2.5	PASS
		VN	-20	-0.16	-0.000086	± 2.5	PASS
		VN	-10	3.79	0.002048	± 2.5	PASS
		VN	0	3.26	0.001761	± 2.5	PASS
		VN	10	2.02	0.001091	± 2.5	PASS
		VN	20	0.17	0.000092	± 2.5	PASS
		VN	30	3.61	0.001951	± 2.5	PASS
		VN	40	1.47	0.000794	± 2.5	PASS
		VN	50	4.28	0.002313	± 2.5	PASS
	MCH	VN	-30	2.24	0.001191	± 2.5	PASS
		VN	-20	0.71	0.000378	± 2.5	PASS

		VN	-10	4.81	0.002559	± 2.5	PASS
		VN	0	4.83	0.002569	± 2.5	PASS
		VN	10	0.08	0.000043	± 2.5	PASS
		VN	20	-1.79	-0.000952	± 2.5	PASS
		VN	30	-1.32	-0.000702	± 2.5	PASS
		VN	40	4.24	0.002255	± 2.5	PASS
		VN	50	-1.37	-0.000729	± 2.5	PASS
	HCH	VN	-30	2.55	0.001336	± 2.5	PASS
		VN	-20	0.52	0.000272	± 2.5	PASS
		VN	-10	-0.32	-0.000168	± 2.5	PASS
		VN	0	-1.03	-0.000539	± 2.5	PASS
		VN	10	-0.69	-0.000361	± 2.5	PASS
		VN	20	3.94	0.002064	± 2.5	PASS
		VN	30	2.34	0.001226	± 2.5	PASS
		VN	40	-0.57	-0.000299	± 2.5	PASS
		VN	50	-0.52	-0.000272	± 2.5	PASS
16QAM	LCH	VN	-30	-1.59	-0.000859	± 2.5	PASS
		VN	-20	-1.24	-0.000670	± 2.5	PASS
		VN	-10	0.80	0.000432	± 2.5	PASS
		VN	0	4.68	0.002529	± 2.5	PASS
		VN	10	0.41	0.000222	± 2.5	PASS
		VN	20	0.64	0.000346	± 2.5	PASS
		VN	30	2.96	0.001599	± 2.5	PASS
		VN	40	0.24	0.000130	± 2.5	PASS
		VN	50	4.52	0.002442	± 2.5	PASS
	MCH	VN	-30	4.10	0.002181	± 2.5	PASS
		VN	-20	1.35	0.000718	± 2.5	PASS
		VN	-10	0.80	0.000426	± 2.5	PASS
		VN	0	-1.04	-0.000553	± 2.5	PASS
		VN	10	3.59	0.001910	± 2.5	PASS
		VN	20	3.60	0.001915	± 2.5	PASS
		VN	30	-1.31	-0.000697	± 2.5	PASS
		VN	40	3.60	0.001915	± 2.5	PASS
		VN	50	1.63	0.000867	± 2.5	PASS
	HCH	VN	-30	-1.97	-0.001032	± 2.5	PASS
		VN	-20	-1.65	-0.000864	± 2.5	PASS
		VN	-10	-1.65	-0.000864	± 2.5	PASS
		VN	0	-0.75	-0.000393	± 2.5	PASS
		VN	10	-1.47	-0.000770	± 2.5	PASS
		VN	20	0.31	0.000162	± 2.5	PASS
		VN	30	4.67	0.002446	± 2.5	PASS

		VN	40	0.24	0.000126	± 2.5	PASS
		VN	50	1.98	0.001037	± 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	3.00	0.001620	± 2.5	PASS
		VN	TN	4.94	0.002668	± 2.5	PASS
		VH	TN	2.81	0.001518	± 2.5	PASS
	MCH	VL	TN	0.22	0.000117	± 2.5	PASS
		VN	TN	0.67	0.000356	± 2.5	PASS
		VH	TN	1.30	0.000691	± 2.5	PASS
	HCH	VL	TN	-0.66	-0.000346	± 2.5	PASS
		VN	TN	0.76	0.000398	± 2.5	PASS
		VH	TN	2.63	0.001378	± 2.5	PASS
16QAM	LCH	VL	TN	3.18	0.001718	± 2.5	PASS
		VN	TN	0.78	0.000421	± 2.5	PASS
		VH	TN	1.58	0.000853	± 2.5	PASS
	MCH	VL	TN	2.32	0.001234	± 2.5	PASS
		VN	TN	0.70	0.000372	± 2.5	PASS
		VH	TN	4.91	0.002612	± 2.5	PASS
	HCH	VL	TN	2.28	0.001195	± 2.5	PASS
		VN	TN	3.15	0.001651	± 2.5	PASS
		VH	TN	4.94	0.002588	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.39	0.000211	± 2.5	PASS
		VN	-20	2.51	0.001356	± 2.5	PASS
		VN	-10	-1.33	-0.000718	± 2.5	PASS
		VN	0	1.39	0.000751	± 2.5	PASS
		VN	10	0.68	0.000367	± 2.5	PASS
		VN	20	1.81	0.000978	± 2.5	PASS
		VN	30	2.87	0.001550	± 2.5	PASS
		VN	40	2.06	0.001113	± 2.5	PASS
		VN	50	4.19	0.002263	± 2.5	PASS
	MCH	VN	-30	4.96	0.002638	± 2.5	PASS
		VN	-20	3.78	0.002011	± 2.5	PASS
		VN	-10	2.69	0.001431	± 2.5	PASS

		VN	0	2.30	0.001223	± 2.5	PASS
		VN	10	2.32	0.001234	± 2.5	PASS
		VN	20	4.75	0.002527	± 2.5	PASS
		VN	30	1.13	0.000601	± 2.5	PASS
		VN	40	1.30	0.000691	± 2.5	PASS
		VN	50	-0.56	-0.000298	± 2.5	PASS
	HCH	VN	-30	1.77	0.000927	± 2.5	PASS
		VN	-20	1.29	0.000676	± 2.5	PASS
		VN	-10	3.14	0.001645	± 2.5	PASS
		VN	0	2.58	0.001352	± 2.5	PASS
		VN	10	-1.93	-0.001011	± 2.5	PASS
		VN	20	2.73	0.001430	± 2.5	PASS
		VN	30	3.28	0.001719	± 2.5	PASS
		VN	40	0.81	0.000424	± 2.5	PASS
		VN	50	2.25	0.001179	± 2.5	PASS
16QAM	LCH	VN	-30	0.32	0.000173	± 2.5	PASS
		VN	-20	1.22	0.000659	± 2.5	PASS
		VN	-10	3.50	0.001890	± 2.5	PASS
		VN	0	-1.35	-0.000729	± 2.5	PASS
		VN	10	0.02	0.000011	± 2.5	PASS
		VN	20	0.85	0.000459	± 2.5	PASS
		VN	30	2.54	0.001372	± 2.5	PASS
		VN	40	2.73	0.001474	± 2.5	PASS
		VN	50	2.89	0.001561	± 2.5	PASS
	MCH	VN	-30	-0.69	-0.000367	± 2.5	PASS
		VN	-20	-1.84	-0.000979	± 2.5	PASS
		VN	-10	2.02	0.001074	± 2.5	PASS
		VN	0	1.16	0.000617	± 2.5	PASS
		VN	10	2.67	0.001420	± 2.5	PASS
		VN	20	2.75	0.001463	± 2.5	PASS
		VN	30	-0.10	-0.000053	± 2.5	PASS
		VN	40	3.17	0.001686	± 2.5	PASS
		VN	50	-0.16	-0.000085	± 2.5	PASS
	HCH	VN	-30	4.76	0.002494	± 2.5	PASS
		VN	-20	3.21	0.001682	± 2.5	PASS
		VN	-10	1.33	0.000697	± 2.5	PASS
		VN	0	4.16	0.002180	± 2.5	PASS
		VN	10	3.47	0.001818	± 2.5	PASS
		VN	20	4.14	0.002169	± 2.5	PASS
		VN	30	3.46	0.001813	± 2.5	PASS
		VN	40	0.57	0.000299	± 2.5	PASS

		VN	50	4.76	0.002494	± 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	4.13	0.002229	± 2.5	PASS
		VN	TN	0.38	0.000205	± 2.5	PASS
		VH	TN	0.02	0.000011	± 2.5	PASS
	MCH	VL	TN	1.33	0.000707	± 2.5	PASS
		VN	TN	-1.38	-0.000734	± 2.5	PASS
		VH	TN	3.98	0.002117	± 2.5	PASS
	HCH	VL	TN	-1.50	-0.000786	± 2.5	PASS
		VN	TN	3.24	0.001699	± 2.5	PASS
		VH	TN	0.72	0.000377	± 2.5	PASS
16QAM	LCH	VL	TN	3.48	0.001879	± 2.5	PASS
		VN	TN	1.37	0.000740	± 2.5	PASS
		VH	TN	3.41	0.001841	± 2.5	PASS
	MCH	VL	TN	2.98	0.001585	± 2.5	PASS
		VN	TN	3.95	0.002101	± 2.5	PASS
		VH	TN	4.25	0.002261	± 2.5	PASS
	HCH	VL	TN	0.33	0.000173	± 2.5	PASS
		VN	TN	1.82	0.000954	± 2.5	PASS
		VH	TN	-1.64	-0.000860	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.19	-0.000642	± 2.5	PASS
		VN	-20	1.66	0.000896	± 2.5	PASS
		VN	-10	4.58	0.002472	± 2.5	PASS
		VN	0	-0.85	-0.000459	± 2.5	PASS
		VN	10	4.67	0.002521	± 2.5	PASS
		VN	20	3.19	0.001722	± 2.5	PASS
		VN	30	3.96	0.002138	± 2.5	PASS
		VN	40	4.54	0.002451	± 2.5	PASS
		VN	50	4.42	0.002386	± 2.5	PASS
	MCH	VN	-30	4.15	0.002207	± 2.5	PASS
		VN	-20	3.13	0.001665	± 2.5	PASS
		VN	-10	2.52	0.001340	± 2.5	PASS
		VN	0	1.53	0.000814	± 2.5	PASS

		VN	10	-1.86	-0.000989	± 2.5	PASS
		VN	20	2.41	0.001282	± 2.5	PASS
		VN	30	1.74	0.000926	± 2.5	PASS
		VN	40	-0.50	-0.000266	± 2.5	PASS
		VN	50	2.88	0.001532	± 2.5	PASS
	HCH	VN	-30	4.27	0.002239	± 2.5	PASS
		VN	-20	0.74	0.000388	± 2.5	PASS
		VN	-10	3.08	0.001615	± 2.5	PASS
		VN	0	-0.07	-0.000037	± 2.5	PASS
		VN	10	3.57	0.001872	± 2.5	PASS
		VN	20	-1.25	-0.000655	± 2.5	PASS
		VN	30	0.95	0.000498	± 2.5	PASS
		VN	40	-1.35	-0.000708	± 2.5	PASS
		VN	50	-0.04	-0.000021	± 2.5	PASS
16QAM	LCH	VN	-30	3.48	0.001879	± 2.5	PASS
		VN	-20	2.51	0.001355	± 2.5	PASS
		VN	-10	0.41	0.000221	± 2.5	PASS
		VN	0	4.73	0.002553	± 2.5	PASS
		VN	10	2.03	0.001096	± 2.5	PASS
		VN	20	-0.85	-0.000459	± 2.5	PASS
		VN	30	3.72	0.002008	± 2.5	PASS
		VN	40	-0.82	-0.000443	± 2.5	PASS
		VN	50	2.47	0.001333	± 2.5	PASS
	MCH	VN	-30	3.12	0.001660	± 2.5	PASS
		VN	-20	-1.47	-0.000782	± 2.5	PASS
		VN	-10	-0.64	-0.000340	± 2.5	PASS
		VN	0	1.71	0.000910	± 2.5	PASS
		VN	10	-1.96	-0.001043	± 2.5	PASS
		VN	20	-1.37	-0.000729	± 2.5	PASS
		VN	30	3.95	0.002101	± 2.5	PASS
		VN	40	3.47	0.001846	± 2.5	PASS
		VN	50	-0.48	-0.000255	± 2.5	PASS
	HCH	VN	-30	0.44	0.000231	± 2.5	PASS
		VN	-20	-1.61	-0.000844	± 2.5	PASS
		VN	-10	4.67	0.002448	± 2.5	PASS
		VN	0	2.57	0.001347	± 2.5	PASS
		VN	10	3.69	0.001934	± 2.5	PASS
		VN	20	-0.27	-0.000142	± 2.5	PASS
		VN	30	-0.25	-0.000131	± 2.5	PASS
		VN	40	-0.47	-0.000246	± 2.5	PASS
		VN	50	-0.04	-0.000021	± 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	0.15	0.000081	± 2.5	PASS
		VN	TN	-0.65	-0.000350	± 2.5	PASS
		VH	TN	-1.48	-0.000798	± 2.5	PASS
	MCH	VL	TN	0.63	0.000335	± 2.5	PASS
		VN	TN	0.79	0.000420	± 2.5	PASS
		VH	TN	0.47	0.000250	± 2.5	PASS
	HCH	VL	TN	1.36	0.000714	± 2.5	PASS
		VN	TN	-0.35	-0.000184	± 2.5	PASS
		VH	TN	3.80	0.001995	± 2.5	PASS
16QAM	LCH	VL	TN	2.81	0.001515	± 2.5	PASS
		VN	TN	0.10	0.000054	± 2.5	PASS
		VH	TN	2.34	0.001261	± 2.5	PASS
	MCH	VL	TN	0.69	0.000367	± 2.5	PASS
		VN	TN	3.89	0.002069	± 2.5	PASS
		VH	TN	2.23	0.001186	± 2.5	PASS
	HCH	VL	TN	-0.71	-0.000373	± 2.5	PASS
		VN	TN	-1.28	-0.000672	± 2.5	PASS
		VH	TN	-1.72	-0.000903	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	1.90	0.001024	± 2.5	PASS
		VN	-20	2.18	0.001175	± 2.5	PASS
		VN	-10	-1.30	-0.000701	± 2.5	PASS
		VN	0	1.64	0.000884	± 2.5	PASS
		VN	10	-0.52	-0.000280	± 2.5	PASS
		VN	20	2.89	0.001558	± 2.5	PASS
		VN	30	2.46	0.001326	± 2.5	PASS
		VN	40	2.11	0.001137	± 2.5	PASS
		VN	50	2.03	0.001094	± 2.5	PASS
	MCH	VN	-30	0.97	0.000516	± 2.5	PASS
		VN	-20	4.18	0.002223	± 2.5	PASS
		VN	-10	-1.85	-0.000984	± 2.5	PASS
		VN	0	3.03	0.001612	± 2.5	PASS
		VN	10	3.93	0.002090	± 2.5	PASS
		VN	20	4.70	0.002500	± 2.5	PASS

		VN	30	0.79	0.000420	± 2.5	PASS
		VN	40	1.42	0.000755	± 2.5	PASS
		VN	50	2.93	0.001559	± 2.5	PASS
	HCH	VN	-30	1.31	0.000688	± 2.5	PASS
		VN	-20	3.91	0.002052	± 2.5	PASS
		VN	-10	-0.45	-0.000236	± 2.5	PASS
		VN	0	2.52	0.001323	± 2.5	PASS
		VN	10	0.97	0.000509	± 2.5	PASS
		VN	20	-0.97	-0.000509	± 2.5	PASS
		VN	30	3.62	0.001900	± 2.5	PASS
		VN	40	4.09	0.002147	± 2.5	PASS
		VN	50	1.95	0.001024	± 2.5	PASS
QPSK	LCH	VN	-30	-1.57	-0.000846	± 2.5	PASS
		VN	-20	3.27	0.001763	± 2.5	PASS
		VN	-10	-0.54	-0.000291	± 2.5	PASS
		VN	0	2.32	0.001251	± 2.5	PASS
		VN	10	3.63	0.001957	± 2.5	PASS
		VN	20	-0.60	-0.000323	± 2.5	PASS
		VN	30	1.95	0.001051	± 2.5	PASS
		VN	40	-1.96	-0.001057	± 2.5	PASS
		VN	50	-1.19	-0.000642	± 2.5	PASS
	MCH	VN	-30	2.68	0.001426	± 2.5	PASS
		VN	-20	2.45	0.001303	± 2.5	PASS
		VN	-10	-0.21	-0.000112	± 2.5	PASS
		VN	0	-1.02	-0.000543	± 2.5	PASS
		VN	10	-1.99	-0.001059	± 2.5	PASS
		VN	20	-1.54	-0.000819	± 2.5	PASS
		VN	30	1.97	0.001048	± 2.5	PASS
		VN	40	1.05	0.000559	± 2.5	PASS
		VN	50	-1.33	-0.000707	± 2.5	PASS
	HCH	VN	-30	2.05	0.001076	± 2.5	PASS
		VN	-20	2.08	0.001092	± 2.5	PASS
		VN	-10	4.13	0.002168	± 2.5	PASS
		VN	0	4.63	0.002430	± 2.5	PASS
		VN	10	4.79	0.002514	± 2.5	PASS
		VN	20	3.50	0.001837	± 2.5	PASS
		VN	30	3.55	0.001864	± 2.5	PASS
		VN	40	-1.61	-0.000845	± 2.5	PASS
		VN	50	-1.22	-0.000640	± 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	-1.38	-0.000743	± 2.5	PASS
		VN	TN	1.68	0.000904	± 2.5	PASS
		VH	TN	0.48	0.000258	± 2.5	PASS
	MCH	VL	TN	0.70	0.000372	± 2.5	PASS
		VN	TN	-1.04	-0.000553	± 2.5	PASS
		VH	TN	2.44	0.001298	± 2.5	PASS
	HCH	VL	TN	2.66	0.001398	± 2.5	PASS
		VN	TN	-0.16	-0.000084	± 2.5	PASS
		VH	TN	2.58	0.001356	± 2.5	PASS
16QAM	LCH	VL	TN	3.30	0.001777	± 2.5	PASS
		VN	TN	-0.37	-0.000199	± 2.5	PASS
		VH	TN	3.40	0.001830	± 2.5	PASS
	MCH	VL	TN	1.16	0.000617	± 2.5	PASS
		VN	TN	1.17	0.000622	± 2.5	PASS
		VH	TN	0.28	0.000149	± 2.5	PASS
	HCH	VL	TN	-1.38	-0.000725	± 2.5	PASS
		VN	TN	4.81	0.002528	± 2.5	PASS
		VH	TN	-0.20	-0.000105	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.65	0.002503	± 2.5	PASS
		VN	-20	-0.51	-0.000275	± 2.5	PASS
		VN	-10	4.57	0.002460	± 2.5	PASS
		VN	0	3.84	0.002067	± 2.5	PASS
		VN	10	0.43	0.000231	± 2.5	PASS
		VN	20	0.55	0.000296	± 2.5	PASS
		VN	30	4.31	0.002320	± 2.5	PASS
		VN	40	1.07	0.000576	± 2.5	PASS
		VN	50	4.56	0.002455	± 2.5	PASS
	MCH	VN	-30	3.27	0.001739	± 2.5	PASS
		VN	-20	0.90	0.000479	± 2.5	PASS
		VN	-10	2.33	0.001239	± 2.5	PASS
		VN	0	0.97	0.000516	± 2.5	PASS
		VN	10	4.15	0.002207	± 2.5	PASS
		VN	20	1.87	0.000995	± 2.5	PASS

		VN	30	2.84	0.001511	± 2.5	PASS
		VN	40	1.37	0.000729	± 2.5	PASS
		VN	50	2.54	0.001351	± 2.5	PASS
	HCH	VN	-30	3.53	0.001855	± 2.5	PASS
		VN	-20	2.72	0.001430	± 2.5	PASS
		VN	-10	3.60	0.001892	± 2.5	PASS
		VN	0	0.42	0.000221	± 2.5	PASS
		VN	10	4.31	0.002265	± 2.5	PASS
		VN	20	-0.28	-0.000147	± 2.5	PASS
		VN	30	1.80	0.000946	± 2.5	PASS
		VN	40	4.68	0.002460	± 2.5	PASS
		VN	50	3.63	0.001908	± 2.5	PASS
16QAM	LCH	VN	-30	2.17	0.001168	± 2.5	PASS
		VN	-20	-0.59	-0.000318	± 2.5	PASS
		VN	-10	2.88	0.001550	± 2.5	PASS
		VN	0	4.52	0.002433	± 2.5	PASS
		VN	10	3.29	0.001771	± 2.5	PASS
		VN	20	1.85	0.000996	± 2.5	PASS
		VN	30	3.19	0.001717	± 2.5	PASS
		VN	40	1.26	0.000678	± 2.5	PASS
		VN	50	4.37	0.002353	± 2.5	PASS
	MCH	VN	-30	3.36	0.001787	± 2.5	PASS
		VN	-20	2.24	0.001191	± 2.5	PASS
		VN	-10	-0.52	-0.000277	± 2.5	PASS
		VN	0	-0.50	-0.000266	± 2.5	PASS
		VN	10	0.18	0.000096	± 2.5	PASS
		VN	20	-1.17	-0.000622	± 2.5	PASS
		VN	30	4.95	0.002633	± 2.5	PASS
		VN	40	4.13	0.002197	± 2.5	PASS
		VN	50	4.09	0.002176	± 2.5	PASS
	HCH	VN	-30	1.41	0.000741	± 2.5	PASS
		VN	-20	4.40	0.002313	± 2.5	PASS
		VN	-10	1.27	0.000668	± 2.5	PASS
		VN	0	-1.55	-0.000815	± 2.5	PASS
		VN	10	-0.46	-0.000242	± 2.5	PASS
		VN	20	4.04	0.002124	± 2.5	PASS
		VN	30	3.09	0.001624	± 2.5	PASS
		VN	40	1.16	0.000610	± 2.5	PASS
		VN	50	0.04	0.000021	± 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	-0.73	-0.000392	± 2.5	PASS
		VN	TN	4.33	0.002328	± 2.5	PASS
		VH	TN	3.27	0.001758	± 2.5	PASS
	MCH	VL	TN	1.47	0.000782	± 2.5	PASS
		VN	TN	2.96	0.001574	± 2.5	PASS
		VH	TN	2.87	0.001527	± 2.5	PASS
	HCH	VL	TN	2.18	0.001147	± 2.5	PASS
		VN	TN	2.05	0.001079	± 2.5	PASS
		VH	TN	0.20	0.000105	± 2.5	PASS
16QAM	LCH	VL	TN	2.59	0.001392	± 2.5	PASS
		VN	TN	0.93	0.000500	± 2.5	PASS
		VH	TN	0.52	0.000280	± 2.5	PASS
	MCH	VL	TN	-0.30	-0.000160	± 2.5	PASS
		VN	TN	-0.31	-0.000165	± 2.5	PASS
		VH	TN	-0.87	-0.000463	± 2.5	PASS
	HCH	VL	TN	1.97	0.001037	± 2.5	PASS
		VN	TN	4.65	0.002447	± 2.5	PASS
		VH	TN	4.50	0.002368	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.55	0.000296	± 2.5	PASS
		VN	-20	-0.96	-0.000516	± 2.5	PASS
		VN	-10	0.26	0.000140	± 2.5	PASS
		VN	0	0.15	0.000081	± 2.5	PASS
		VN	10	-0.42	-0.000226	± 2.5	PASS
		VN	20	2.33	0.001253	± 2.5	PASS
		VN	30	4.85	0.002608	± 2.5	PASS
		VN	40	2.88	0.001548	± 2.5	PASS
		VN	50	3.41	0.001833	± 2.5	PASS
	MCH	VN	-30	-1.55	-0.000824	± 2.5	PASS
		VN	-20	-0.52	-0.000277	± 2.5	PASS
		VN	-10	1.09	0.000580	± 2.5	PASS
		VN	0	2.06	0.001096	± 2.5	PASS
		VN	10	3.74	0.001989	± 2.5	PASS
		VN	20	-0.44	-0.000234	± 2.5	PASS

		VN	30	1.96	0.001043	± 2.5	PASS
		VN	40	0.46	0.000245	± 2.5	PASS
		VN	50	4.94	0.002628	± 2.5	PASS
	HCH	VN	-30	4.69	0.002468	± 2.5	PASS
		VN	-20	-1.39	-0.000732	± 2.5	PASS
		VN	-10	4.35	0.002289	± 2.5	PASS
		VN	0	3.43	0.001805	± 2.5	PASS
		VN	10	2.51	0.001321	± 2.5	PASS
		VN	20	0.94	0.000495	± 2.5	PASS
		VN	30	-0.42	-0.000221	± 2.5	PASS
		VN	40	3.41	0.001795	± 2.5	PASS
		VN	50	0.04	0.000021	± 2.5	PASS
16QAM	LCH	VN	-30	3.43	0.001844	± 2.5	PASS
		VN	-20	1.25	0.000672	± 2.5	PASS
		VN	-10	3.51	0.001887	± 2.5	PASS
		VN	0	-1.39	-0.000747	± 2.5	PASS
		VN	10	-1.44	-0.000774	± 2.5	PASS
		VN	20	3.12	0.001677	± 2.5	PASS
		VN	30	4.56	0.002452	± 2.5	PASS
		VN	40	2.12	0.001140	± 2.5	PASS
		VN	50	3.99	0.002145	± 2.5	PASS
	MCH	VN	-30	4.28	0.002277	± 2.5	PASS
		VN	-20	4.24	0.002255	± 2.5	PASS
		VN	-10	3.92	0.002085	± 2.5	PASS
		VN	0	3.29	0.001750	± 2.5	PASS
		VN	10	-0.85	-0.000452	± 2.5	PASS
		VN	20	1.20	0.000638	± 2.5	PASS
		VN	30	2.95	0.001569	± 2.5	PASS
		VN	40	0.48	0.000255	± 2.5	PASS
		VN	50	0.67	0.000356	± 2.5	PASS
	HCH	VN	-30	2.20	0.001158	± 2.5	PASS
		VN	-20	4.25	0.002237	± 2.5	PASS
		VN	-10	0.33	0.000174	± 2.5	PASS
		VN	0	3.91	0.002058	± 2.5	PASS
		VN	10	-0.64	-0.000337	± 2.5	PASS
		VN	20	-0.67	-0.000353	± 2.5	PASS
		VN	30	3.77	0.001984	± 2.5	PASS
		VN	40	2.56	0.001347	± 2.5	PASS
		VN	50	1.91	0.001005	± 2.5	PASS