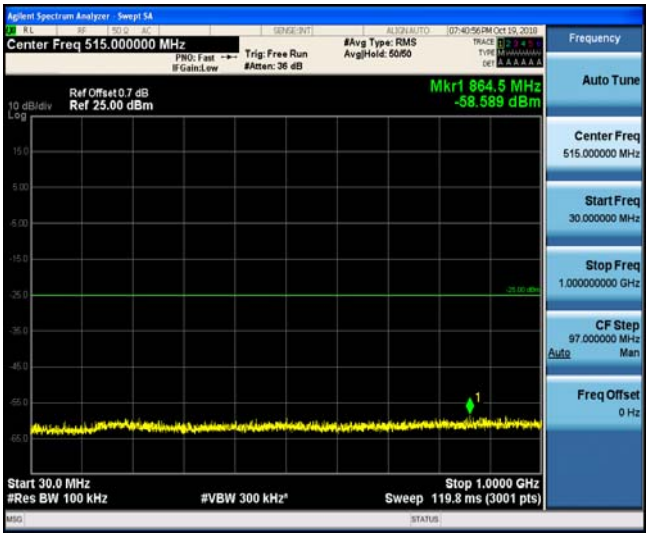
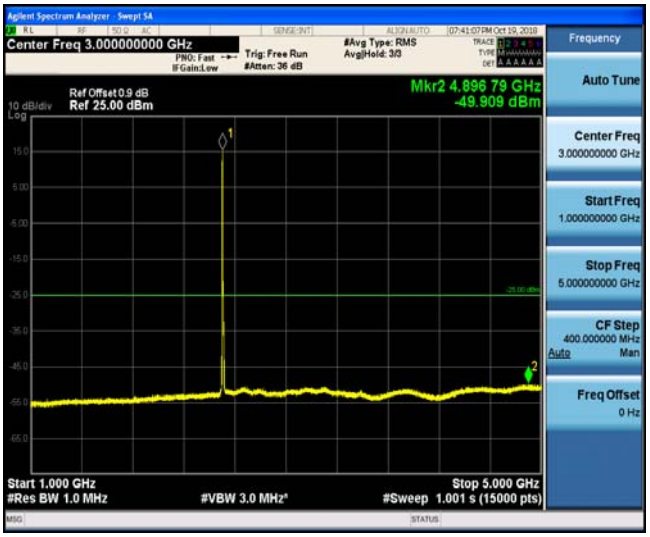


Band7_10MHz_16QAM_20800_1RB#0



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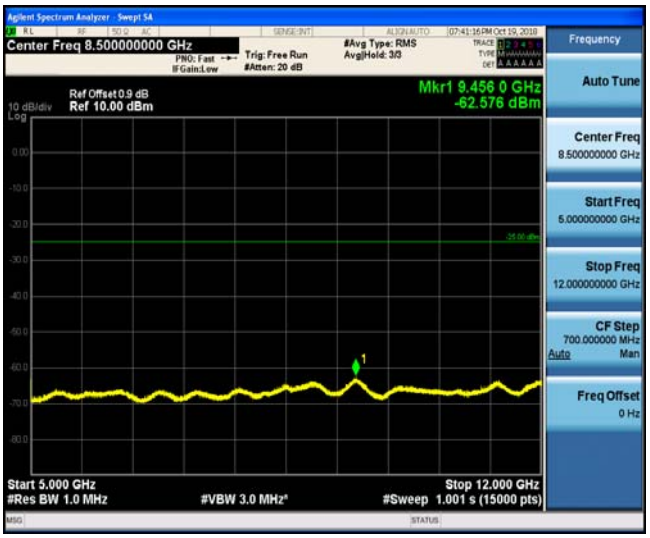
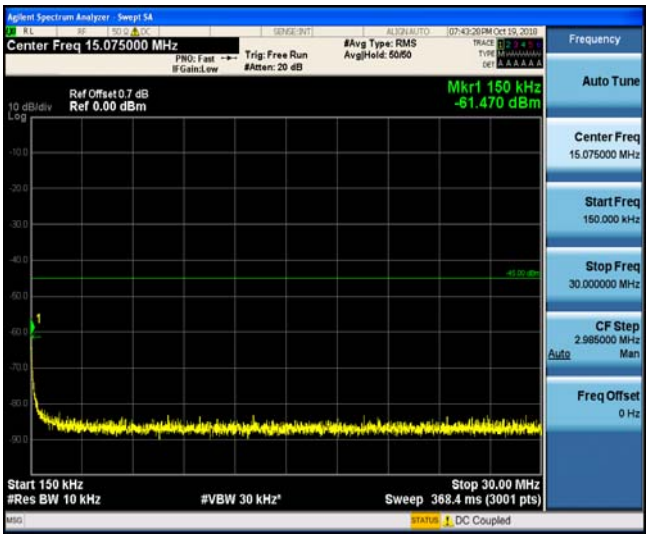


Band7_10MHz_16QAM_20800_1RB#0

Band7_10MHz_16QAM_21100_1RB#0

Band7_10MHz_16QAM_21100_1RB#0



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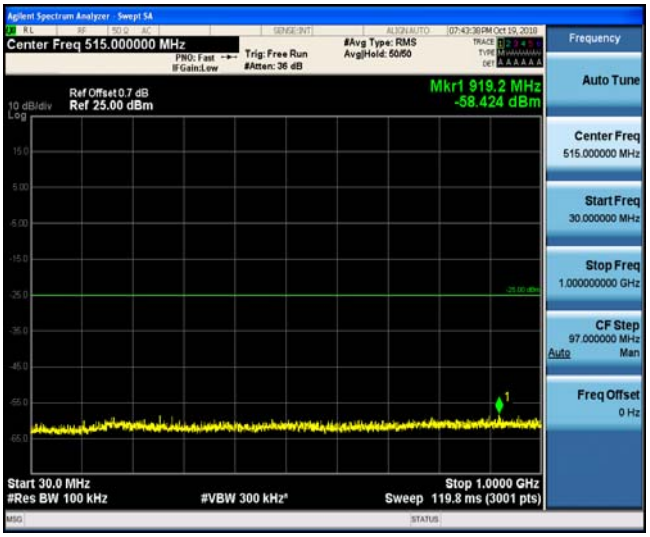

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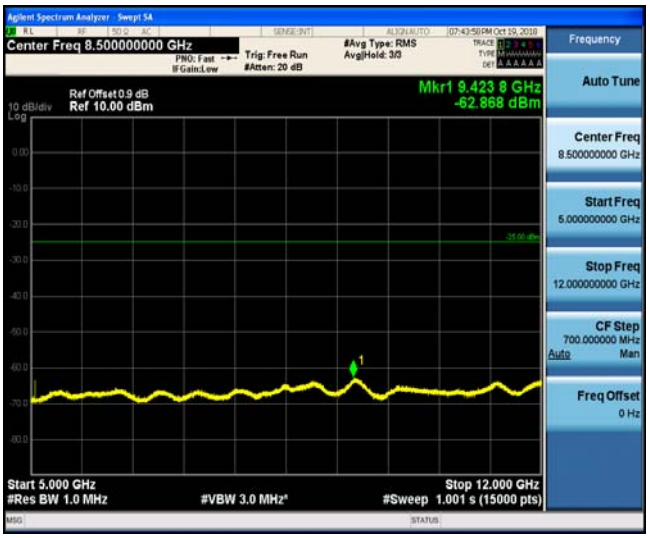

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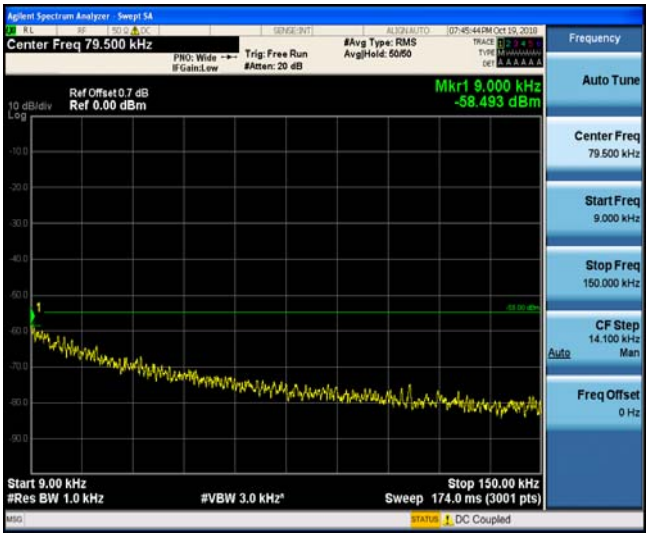

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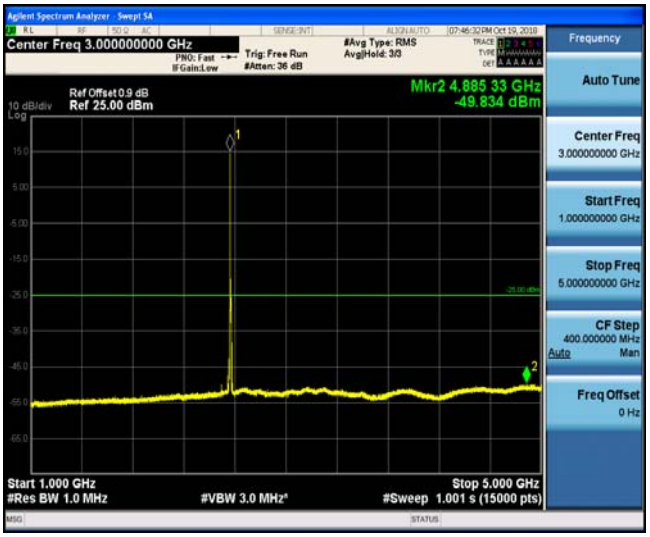

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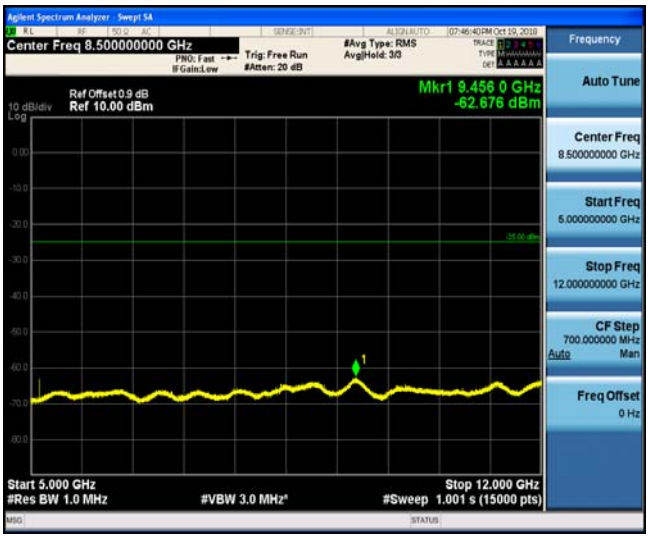
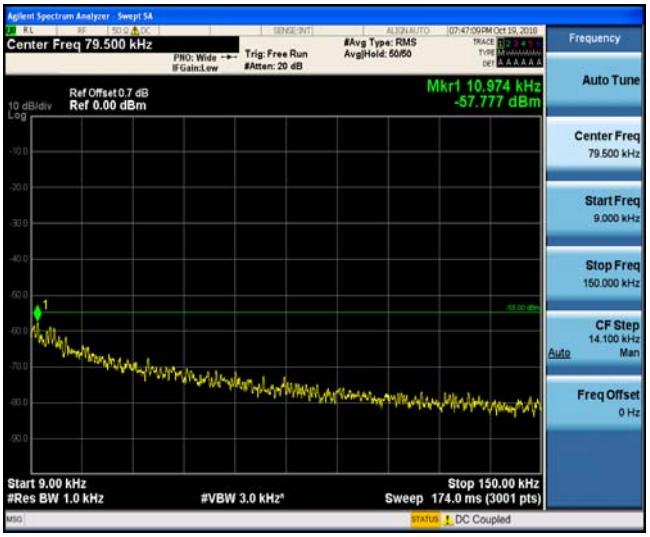


Band7_10MHz_16QAM_21400_1RB#0

Band7_15MHz_QPSK_20825_1RB#0



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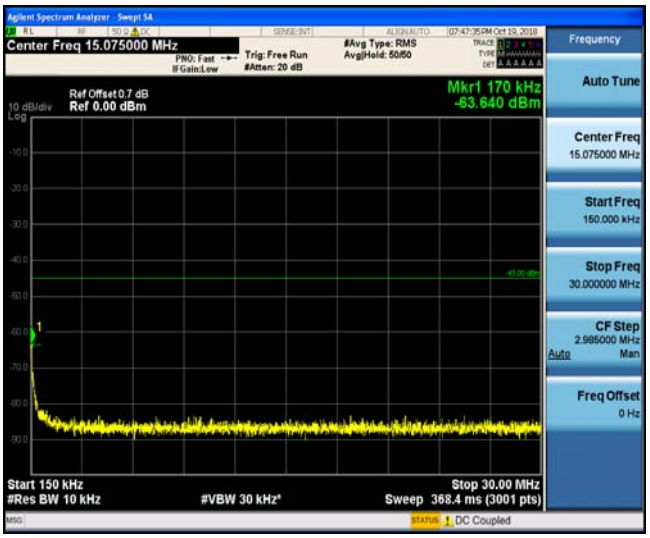

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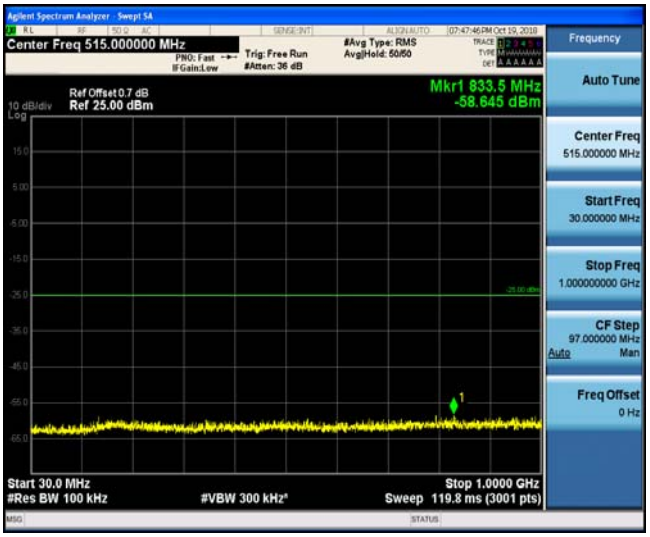

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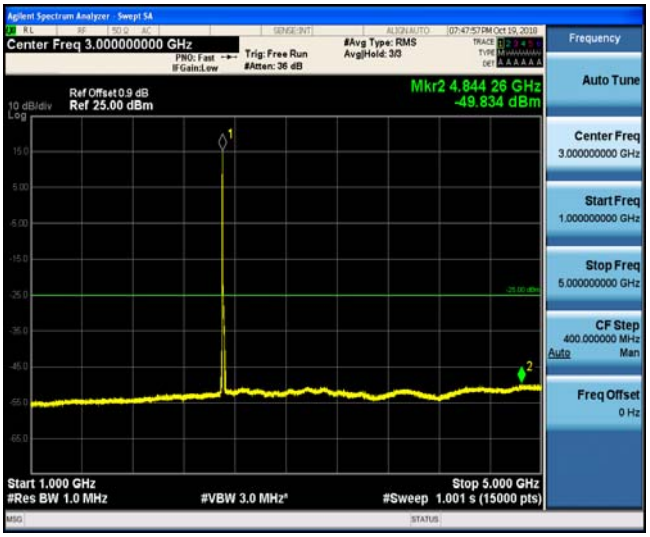

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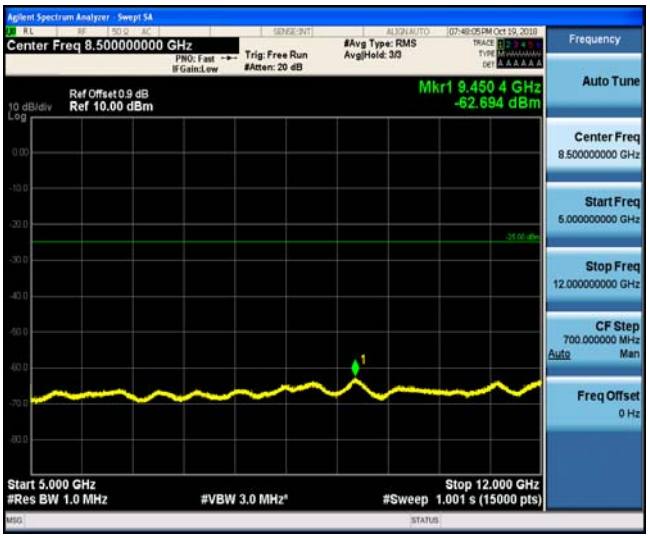

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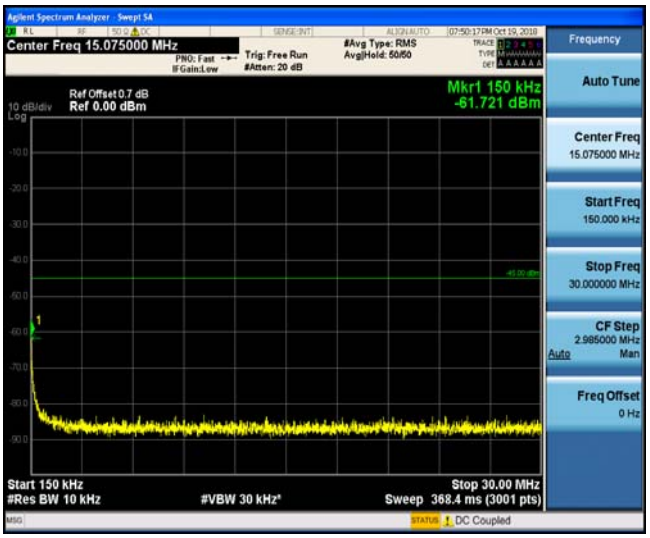
Band7_15MHz_QPSK_21100_1RB#0



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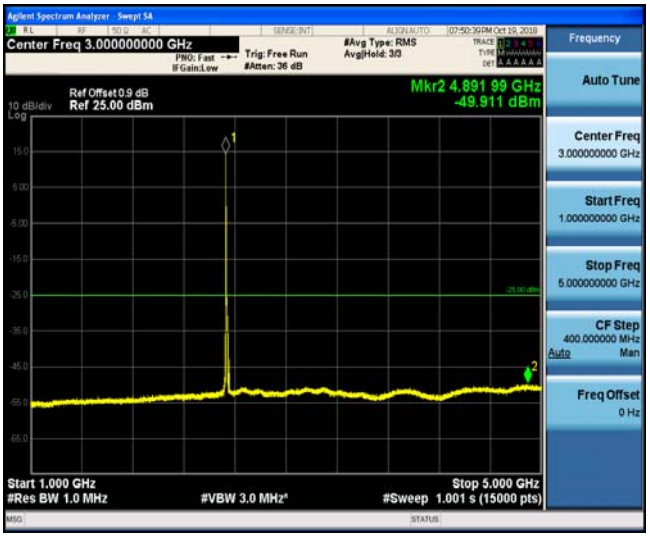

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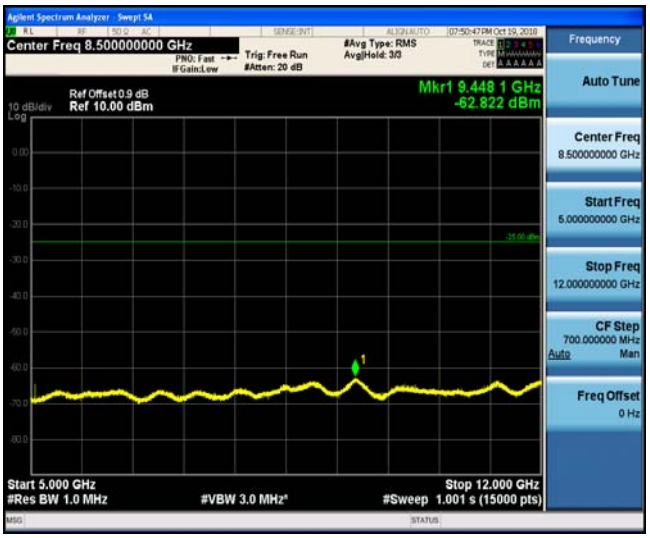
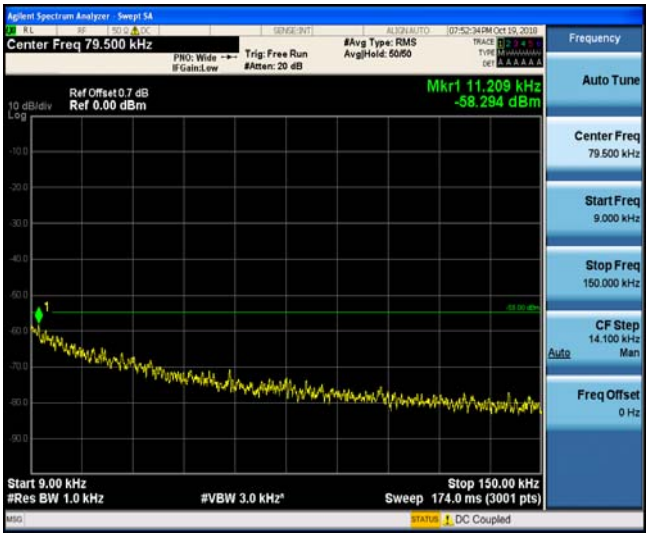


Band7_15MHz_QPSK_21100_1RB#0

Band7_15MHz_QPSK_21375_1RB#0



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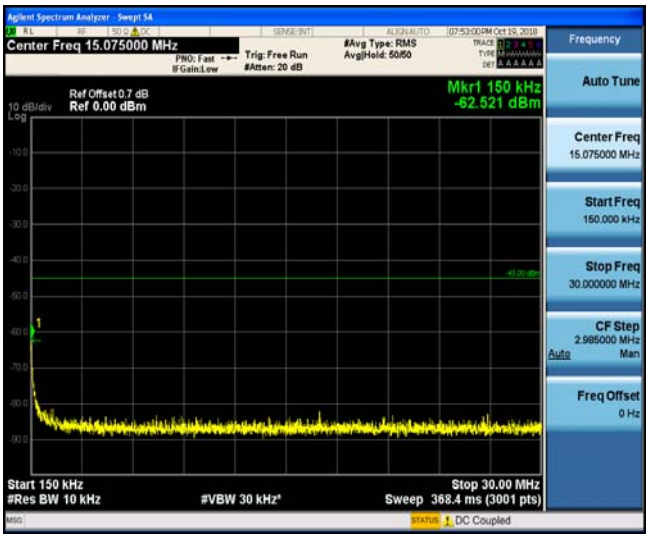

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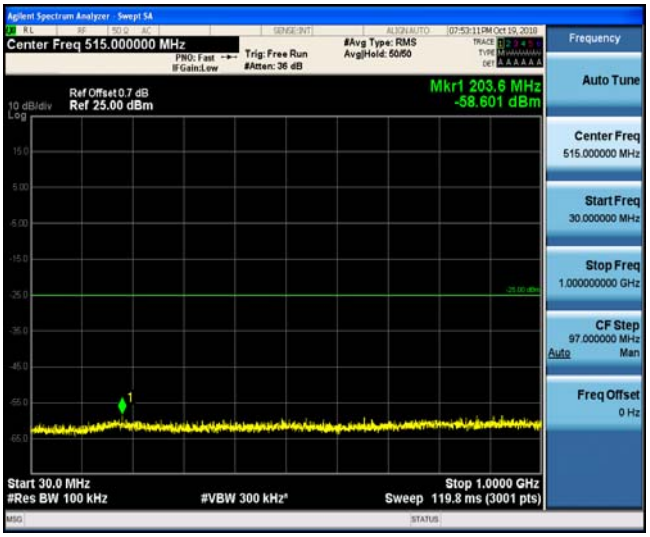

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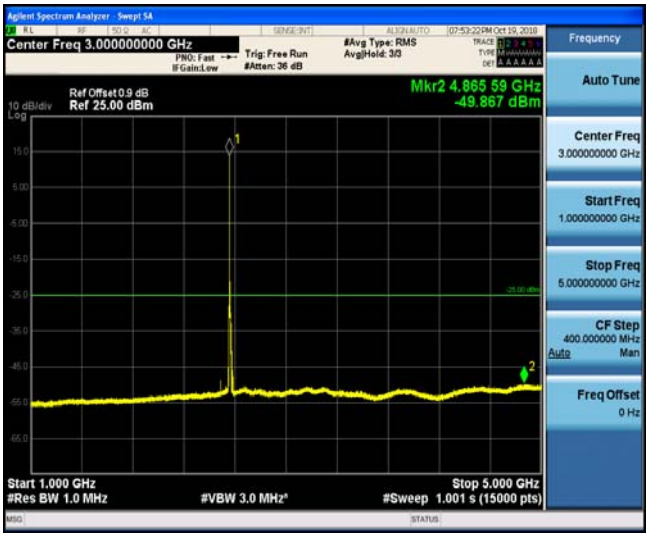

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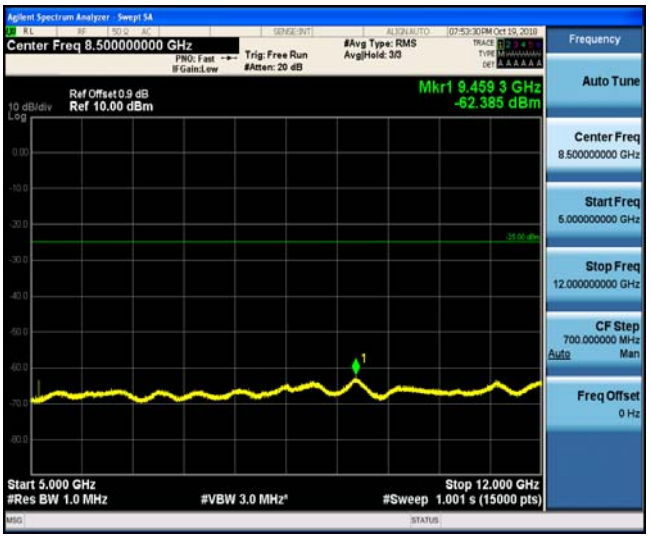

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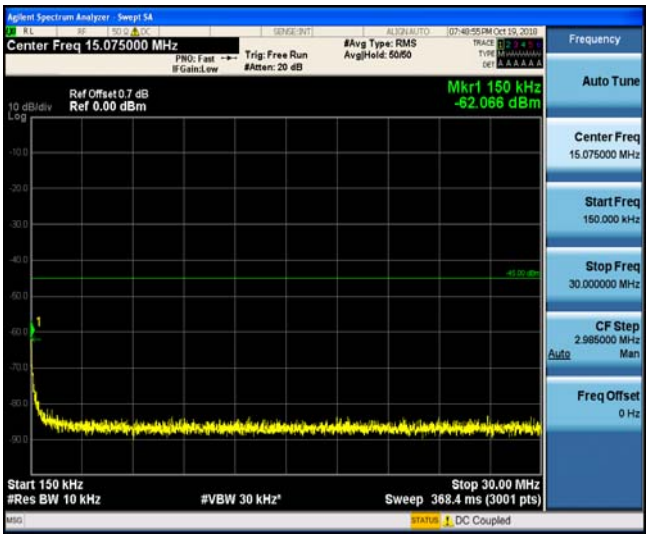
Band7_15MHz_16QAM_20825_1RB#0

Band7_15MHz_16QAM_20825_1RB#0



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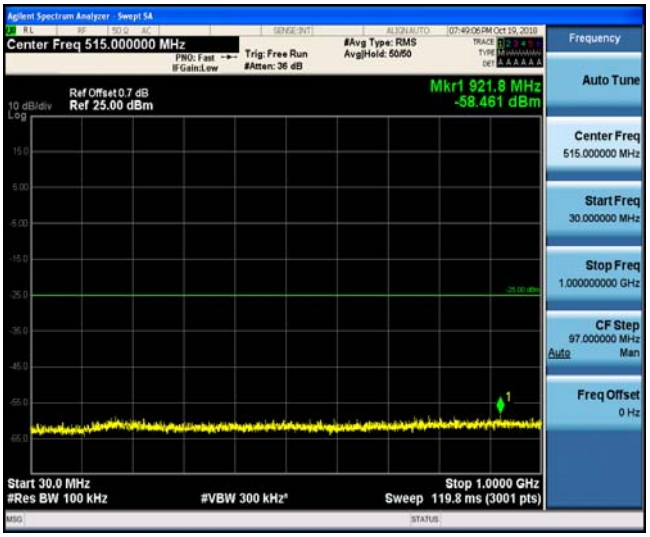

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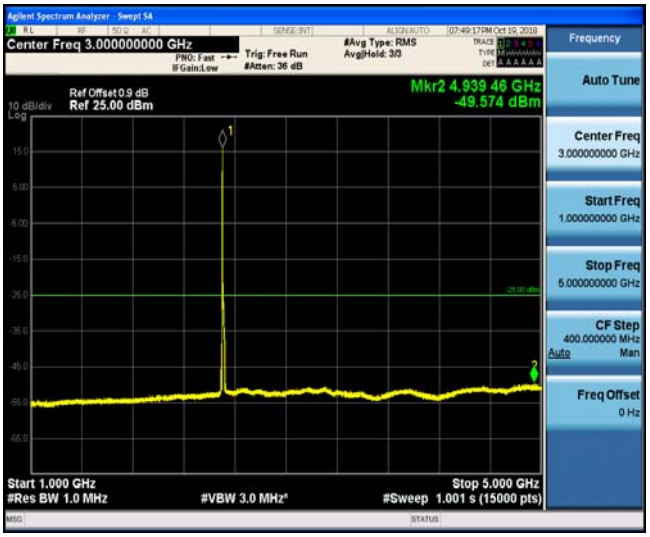

Band7_15MHz_16QAM_20825_1RB#0

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Band7_15MHz_16QAM_21100_1RB#0

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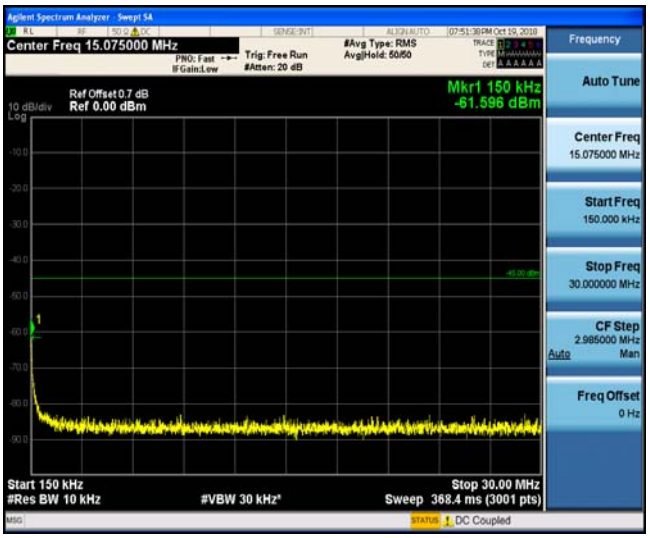

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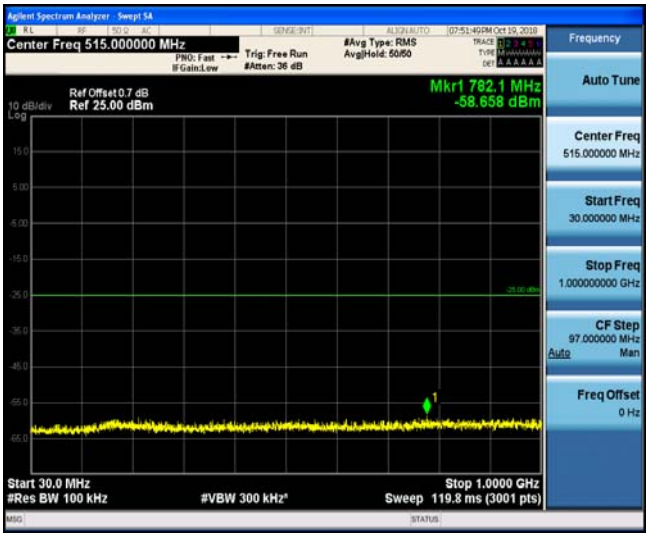

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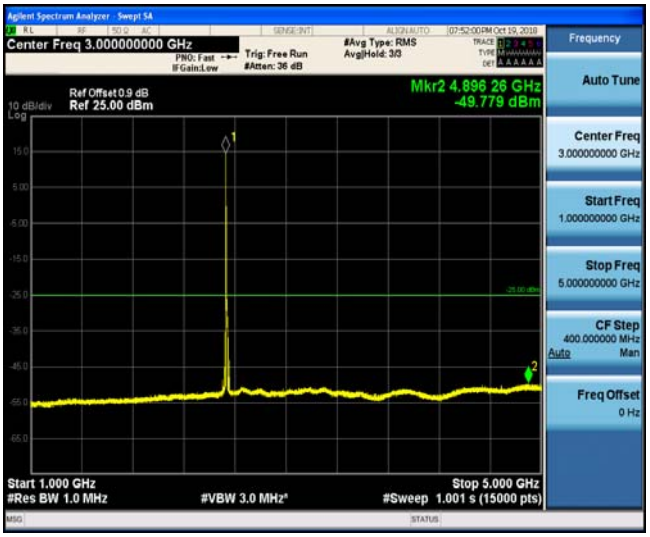

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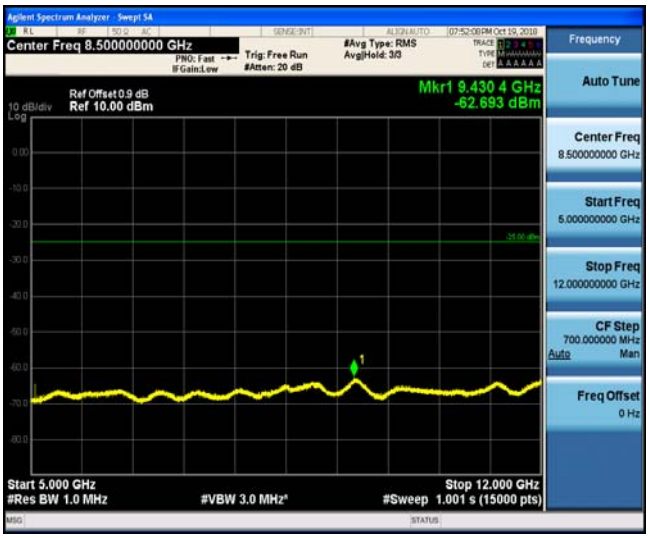

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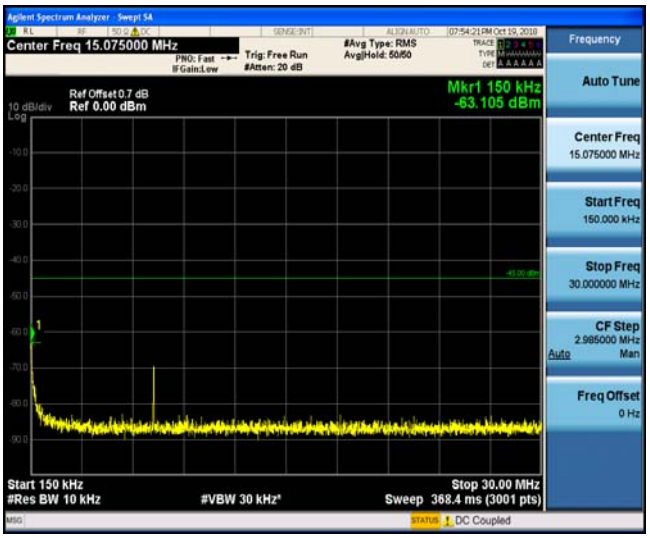

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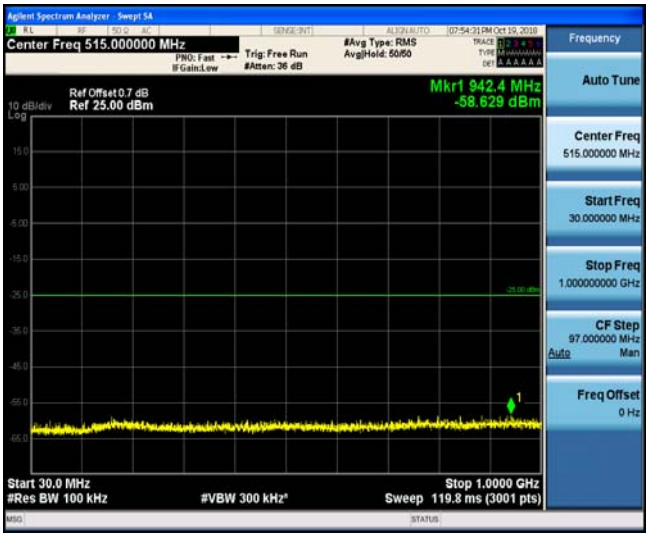

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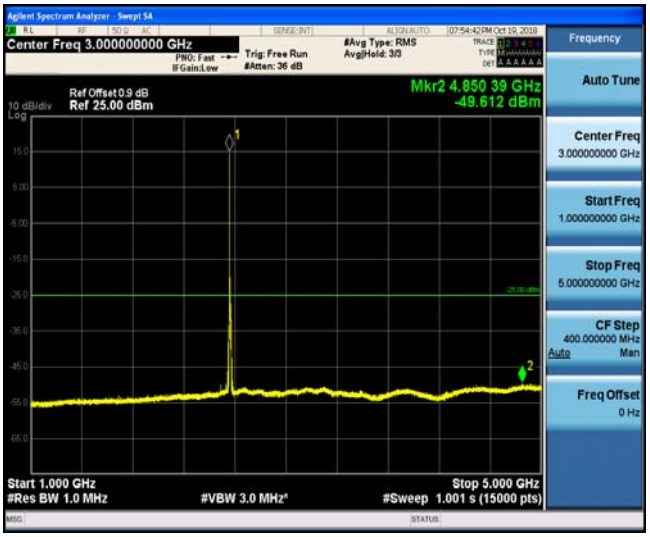

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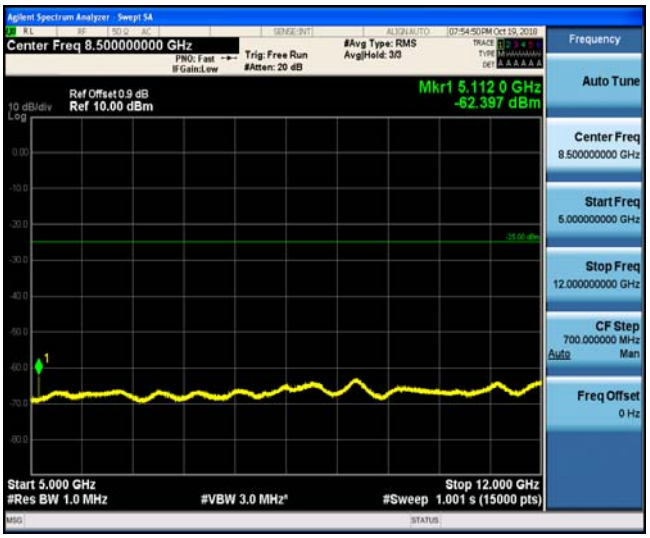

Band7_15MHz_16QAM_21375_1RB#0

Band7_20MHz_QPSK_20850_1RB#0

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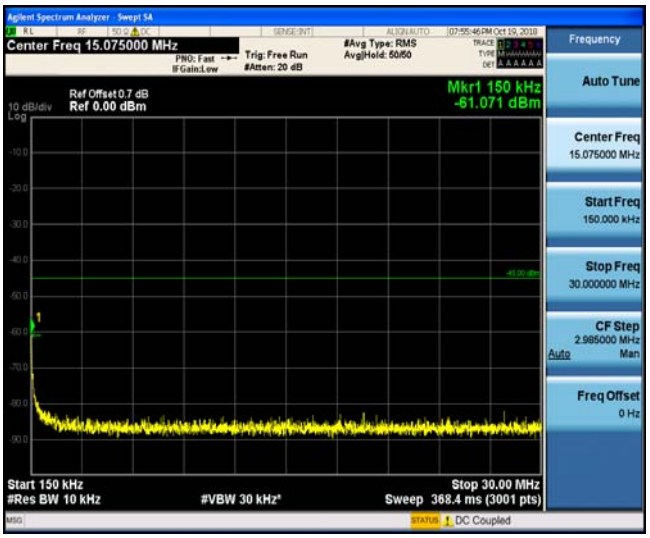

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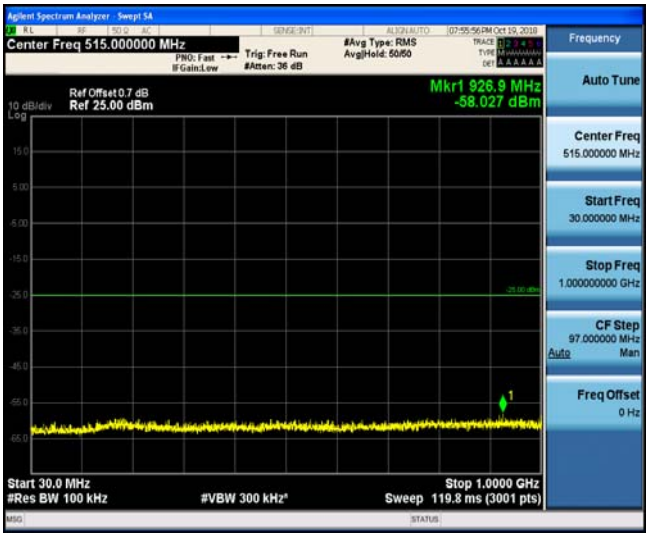

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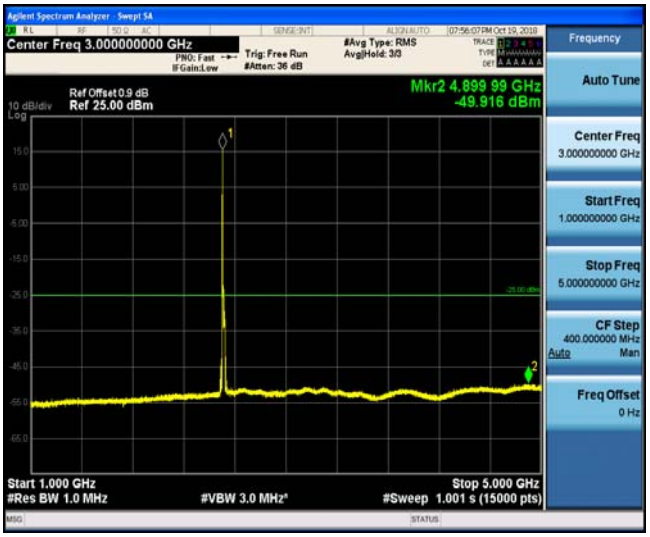

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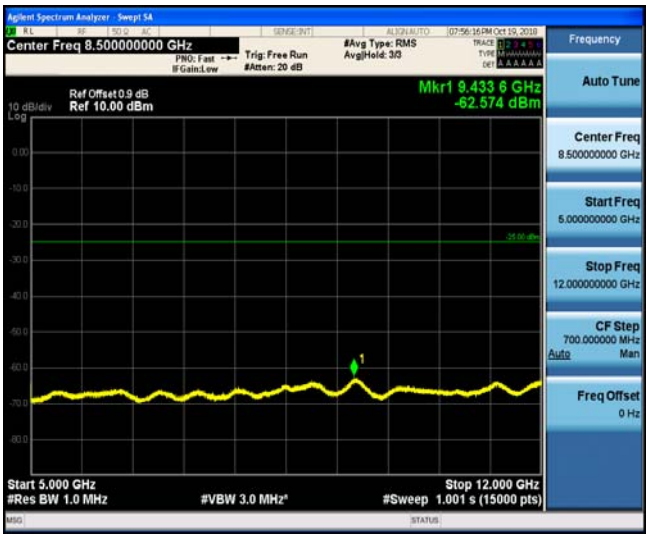

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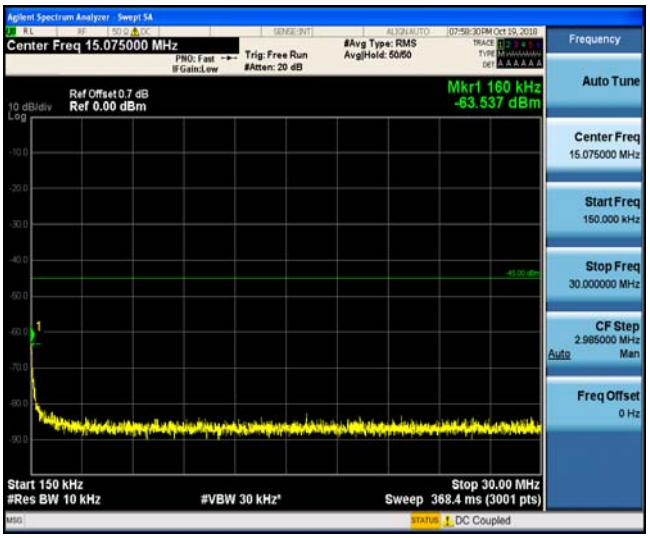

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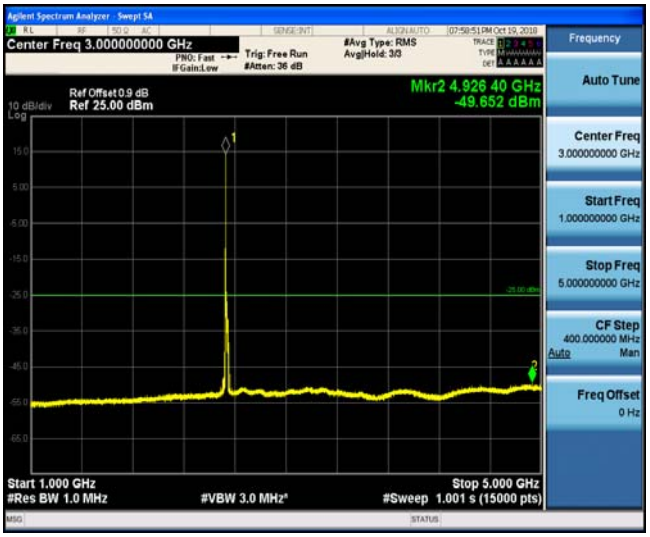

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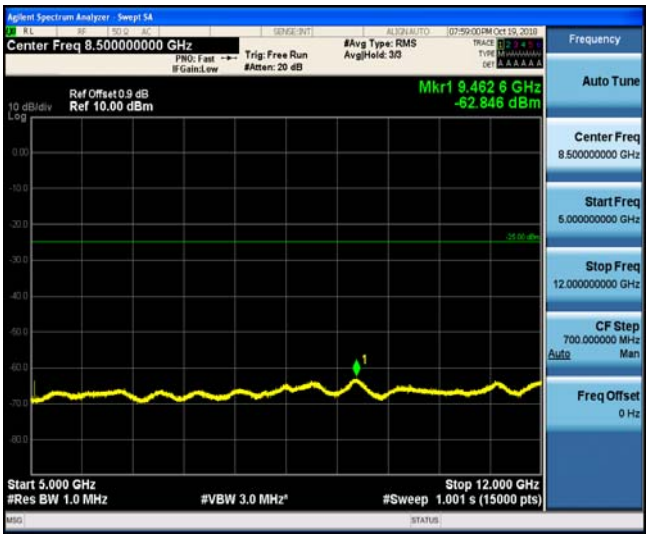

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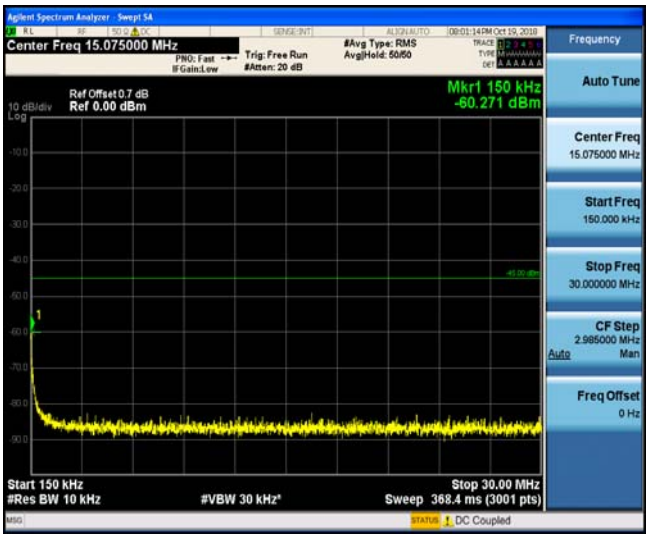

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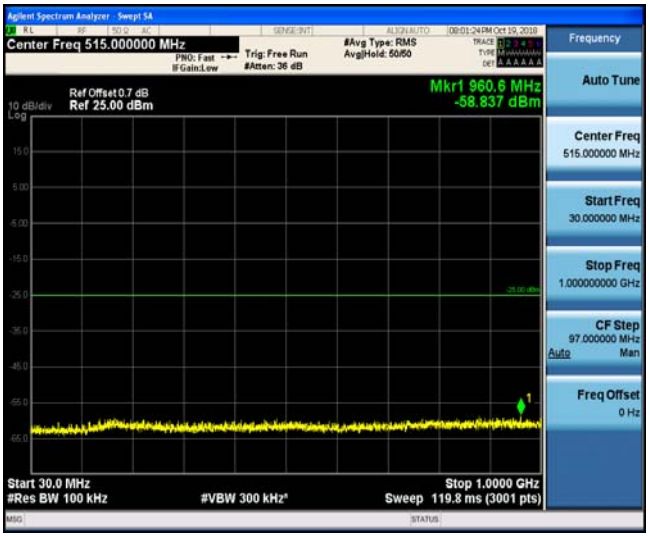
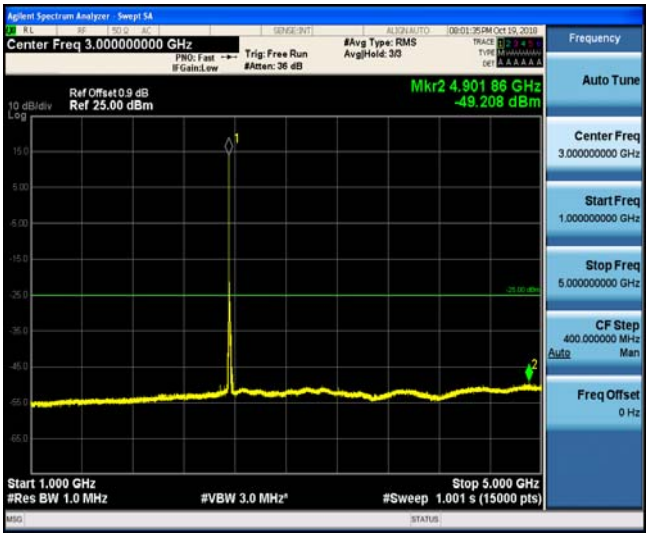


Band7_20MHz_QPSK_21350_1RB#0



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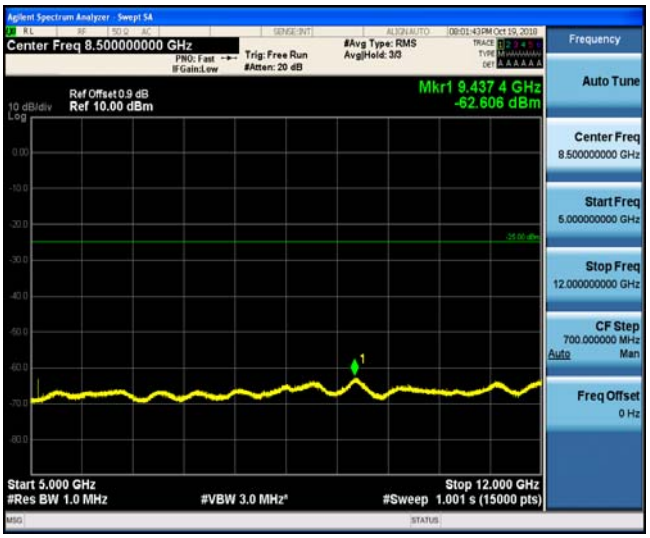

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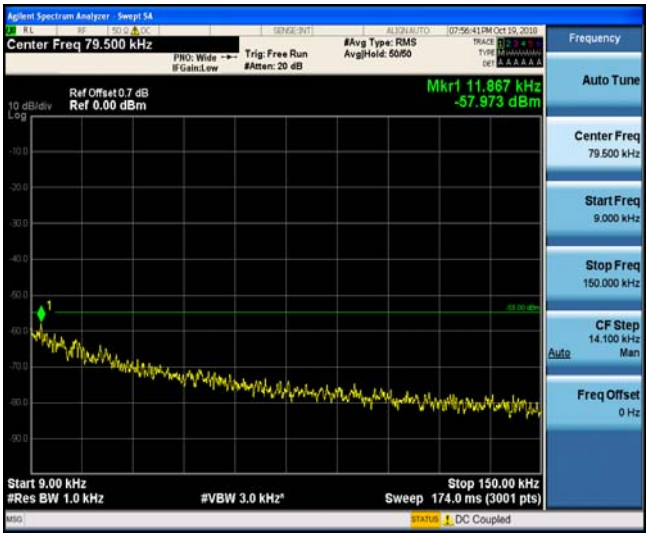

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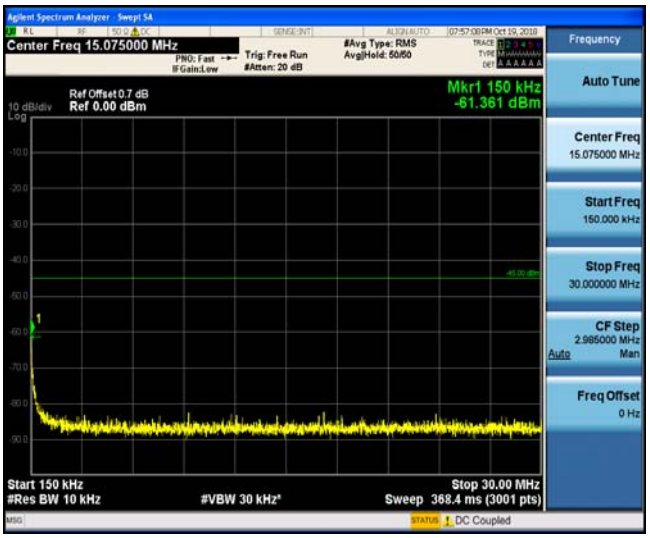

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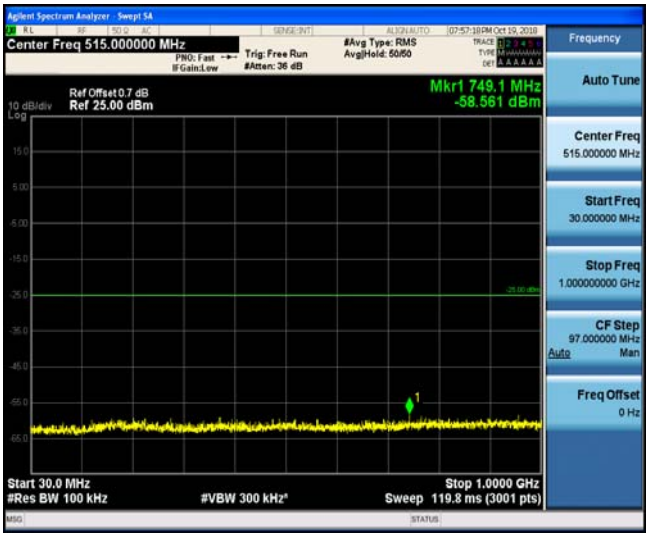

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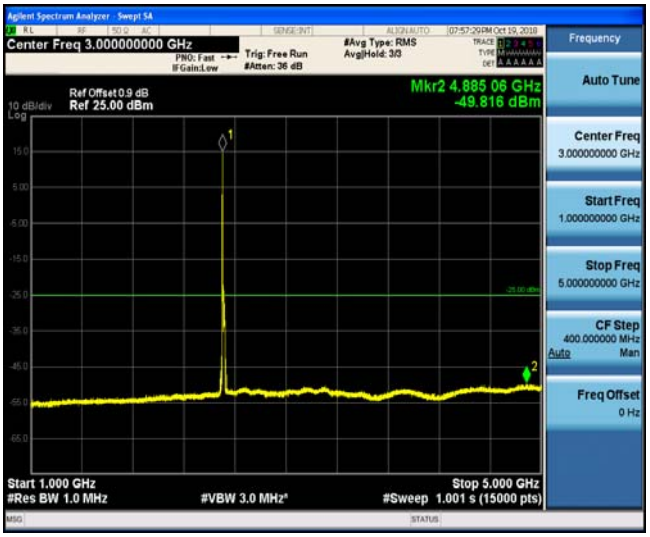

Band7_20MHz_16QAM_20850_1RB#0

Band7_20MHz_16QAM_20850_1RB#0

Band7_20MHz_16QAM_21100_1RB#0

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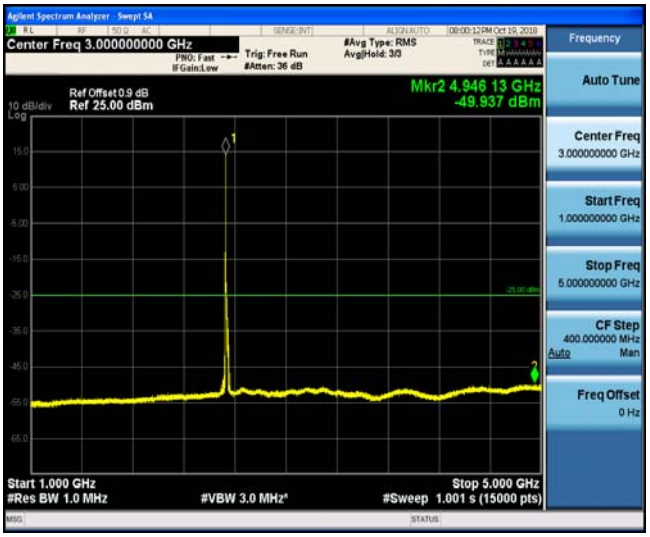

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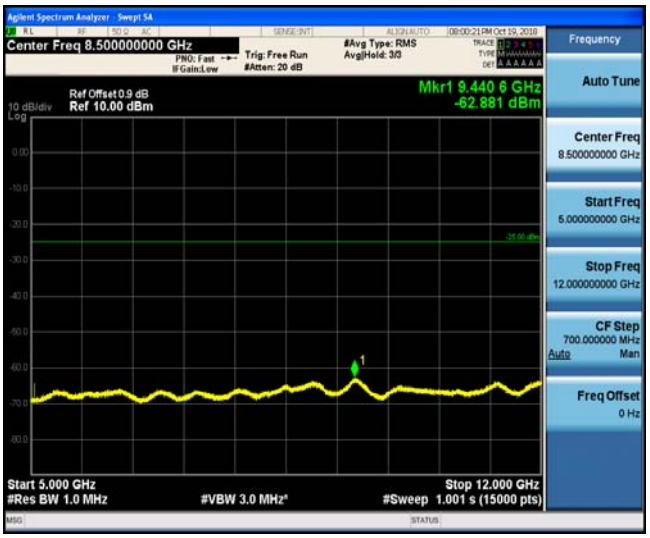

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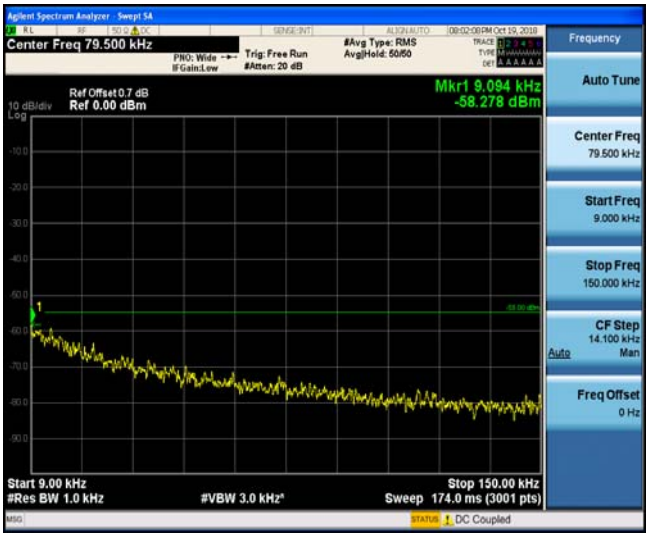
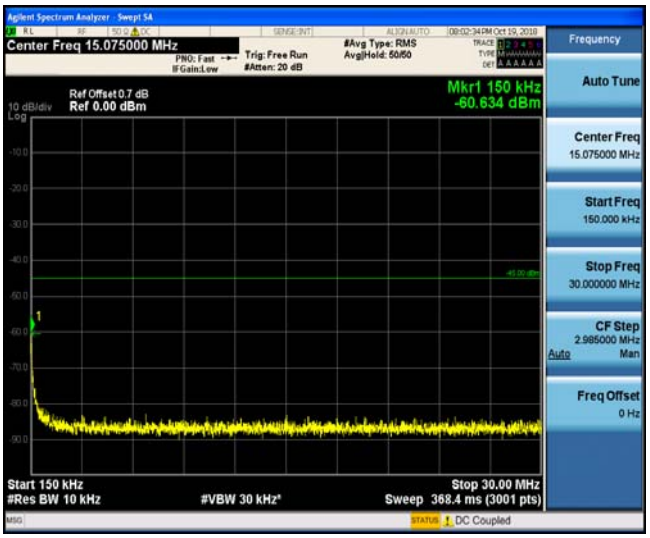
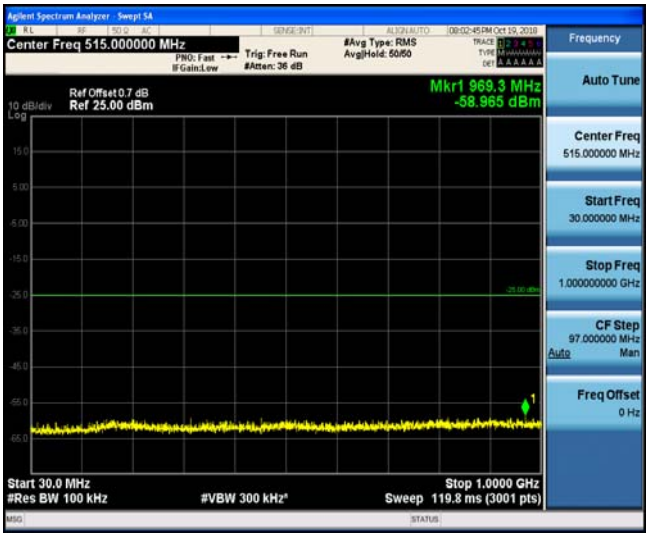


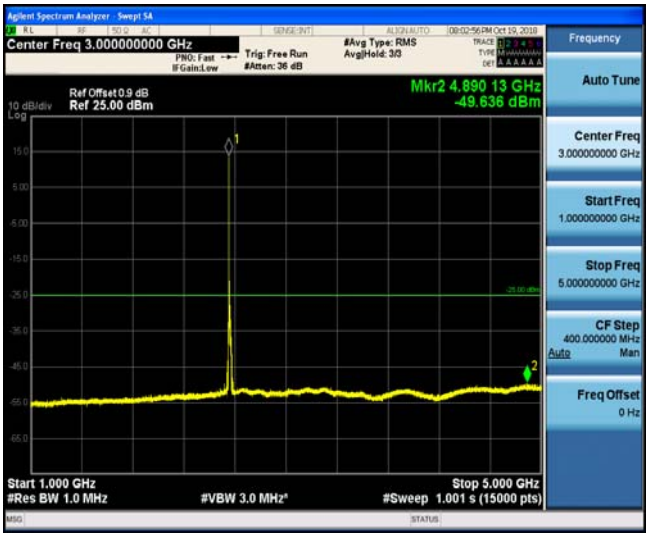
Band7_20MHz_16QAM_21350_1RB#0



Band7_20MHz_16QAM_21350_1RB#0



Band7_20MHz_16QAM_21350_1RB#0



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
Frequency
Auto Tune
Ref Offset 0.9 dB
10 dB/div
Log
Ref 10.00 dBm
Mkr1 17.038 7 GHz
-58.119 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	-0.98	-0.000392	± 2.5	PASS
		VN	TN	1.83	0.000731	± 2.5	PASS
		VH	TN	-1.77	-0.000707	± 2.5	PASS
	MCH	VL	TN	3.47	0.001369	± 2.5	PASS
		VN	TN	-1.95	-0.000769	± 2.5	PASS
		VH	TN	3.39	0.001337	± 2.5	PASS
	HCH	VL	TN	2.96	0.001153	± 2.5	PASS
		VN	TN	-0.2	-0.000078	± 2.5	PASS
		VH	TN	4.8	0.001870	± 2.5	PASS
16QAM	LCH	VL	TN	-1.72	-0.000687	± 2.5	PASS
		VN	TN	3.07	0.001227	± 2.5	PASS
		VH	TN	-1.4	-0.000559	± 2.5	PASS
	MCH	VL	TN	0.08	0.000032	± 2.5	PASS
		VN	TN	4.47	0.001763	± 2.5	PASS
		VH	TN	1.98	0.000781	± 2.5	PASS
	HCH	VL	TN	-1.83	-0.000713	± 2.5	PASS
		VN	TN	2.77	0.001079	± 2.5	PASS
		VH	TN	-1.62	-0.000631	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.83	0.001930	± 2.5	PASS
		VN	-20	4.75	0.001898	± 2.5	PASS
		VN	-10	3.6	0.001439	± 2.5	PASS
		VN	0	-1.35	-0.000539	± 2.5	PASS
		VN	10	4.69	0.001874	± 2.5	PASS
		VN	20	1.16	0.000464	± 2.5	PASS
		VN	30	3.08	0.001231	± 2.5	PASS
		VN	40	3	0.001199	± 2.5	PASS
		VN	50	1.76	0.000703	± 2.5	PASS
	MCH	VN	-30	-1.51	-0.000596	± 2.5	PASS
		VN	-20	-0.75	-0.000296	± 2.5	PASS

		VN	-10	0.34	0.000134	± 2.5	PASS
		VN	0	3.18	0.001254	± 2.5	PASS
		VN	10	2.19	0.000864	± 2.5	PASS
		VN	20	-1.74	-0.000686	± 2.5	PASS
		VN	30	4.19	0.001653	± 2.5	PASS
		VN	40	-0.6	-0.000237	± 2.5	PASS
		VN	50	2.32	0.000915	± 2.5	PASS
	HCH	VN	-30	4.87	0.001897	± 2.5	PASS
		VN	-20	1.65	0.000643	± 2.5	PASS
		VN	-10	3.65	0.001422	± 2.5	PASS
		VN	0	-1.47	-0.000573	± 2.5	PASS
		VN	10	2.31	0.000900	± 2.5	PASS
		VN	20	-1.75	-0.000682	± 2.5	PASS
		VN	30	3.64	0.001418	± 2.5	PASS
		VN	40	-0.79	-0.000308	± 2.5	PASS
		VN	50	4.93	0.001920	± 2.5	PASS
16QAM	LCH	VN	-30	2.97	0.001187	± 2.5	PASS
		VN	-20	0.36	0.000144	± 2.5	PASS
		VN	-10	3.54	0.001415	± 2.5	PASS
		VN	0	-1.94	-0.000775	± 2.5	PASS
		VN	10	2.12	0.000847	± 2.5	PASS
		VN	20	-1.71	-0.000683	± 2.5	PASS
		VN	30	-0.28	-0.000112	± 2.5	PASS
		VN	40	1.32	0.000527	± 2.5	PASS
		VN	50	2.75	0.001099	± 2.5	PASS
	MCH	VN	-30	-0.98	-0.000387	± 2.5	PASS
		VN	-20	2.73	0.001077	± 2.5	PASS
		VN	-10	-1.31	-0.000517	± 2.5	PASS
		VN	0	0.96	0.000379	± 2.5	PASS
		VN	10	2.47	0.000974	± 2.5	PASS
		VN	20	-1.06	-0.000418	± 2.5	PASS
		VN	30	2.98	0.001176	± 2.5	PASS
		VN	40	1.28	0.000505	± 2.5	PASS
		VN	50	1.31	0.000517	± 2.5	PASS
	HCH	VN	-30	4.74	0.001846	± 2.5	PASS
		VN	-20	0.57	0.000222	± 2.5	PASS
		VN	-10	0.6	0.000234	± 2.5	PASS
		VN	0	-0.86	-0.000335	± 2.5	PASS
		VN	10	4.32	0.001683	± 2.5	PASS
		VN	20	-0.8	-0.000312	± 2.5	PASS
		VN	30	-0.12	-0.000047	± 2.5	PASS

		VN	40	0.94	0.000366	± 2.5	PASS
		VN	50	3.52	0.001371	± 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	-0.11	-0.000044	± 2.5	PASS
		VN	TN	4.71	0.001880	± 2.5	PASS
		VH	TN	-1.94	-0.000774	± 2.5	PASS
	MCH	VL	TN	0.53	0.000209	± 2.5	PASS
		VN	TN	2.99	0.001179	± 2.5	PASS
		VH	TN	4.83	0.001905	± 2.5	PASS
	HCH	VL	TN	-0.3	-0.000117	± 2.5	PASS
		VN	TN	4.87	0.001899	± 2.5	PASS
		VH	TN	4.75	0.001852	± 2.5	PASS
16QAM	LCH	VL	TN	1.86	0.000743	± 2.5	PASS
		VN	TN	4.67	0.001864	± 2.5	PASS
		VH	TN	4.33	0.001729	± 2.5	PASS
	MCH	VL	TN	-0.48	-0.000189	± 2.5	PASS
		VN	TN	-0.66	-0.000260	± 2.5	PASS
		VH	TN	4.34	0.001712	± 2.5	PASS
	HCH	VL	TN	3.96	0.001544	± 2.5	PASS
		VN	TN	0.48	0.000187	± 2.5	PASS
		VH	TN	0.87	0.000339	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-0.2	-0.000080	± 2.5	PASS
		VN	-20	4.6	0.001836	± 2.5	PASS
		VN	-10	-1.51	-0.000603	± 2.5	PASS
		VN	0	4.39	0.001752	± 2.5	PASS
		VN	10	2.9	0.001158	± 2.5	PASS
		VN	20	1	0.000399	± 2.5	PASS
		VN	30	-1.91	-0.000762	± 2.5	PASS
		VN	40	1.52	0.000607	± 2.5	PASS
		VN	50	-1.56	-0.000623	± 2.5	PASS
	MCH	VN	-30	2.13	0.000840	± 2.5	PASS
		VN	-20	0.12	0.000047	± 2.5	PASS
		VN	-10	0.96	0.000379	± 2.5	PASS

		VN	0	2.59	0.001022	± 2.5	PASS
		VN	10	0	0.000000	± 2.5	PASS
		VN	20	0.47	0.000185	± 2.5	PASS
		VN	30	3.49	0.001377	± 2.5	PASS
		VN	40	4.78	0.001886	± 2.5	PASS
		VN	50	3.8	0.001499	± 2.5	PASS
	HCH	VN	-30	-1.27	-0.000495	± 2.5	PASS
		VN	-20	0.04	0.000016	± 2.5	PASS
		VN	-10	-0.45	-0.000175	± 2.5	PASS
		VN	0	-1.24	-0.000483	± 2.5	PASS
		VN	10	-0.47	-0.000183	± 2.5	PASS
		VN	20	-0.17	-0.000066	± 2.5	PASS
		VN	30	-1.96	-0.000764	± 2.5	PASS
		VN	40	2.98	0.001162	± 2.5	PASS
		VN	50	2.55	0.000994	± 2.5	PASS
QPSK	LCH	VN	-30	4.14	0.001653	± 2.5	PASS
		VN	-20	-0.66	-0.000263	± 2.5	PASS
		VN	-10	3.47	0.001385	± 2.5	PASS
		VN	0	1.56	0.000623	± 2.5	PASS
		VN	10	-1.09	-0.000435	± 2.5	PASS
		VN	20	1.25	0.000499	± 2.5	PASS
		VN	30	4.29	0.001713	± 2.5	PASS
		VN	40	3.16	0.001261	± 2.5	PASS
		VN	50	0.55	0.000220	± 2.5	PASS
	MCH	VN	-30	2.93	0.001156	± 2.5	PASS
		VN	-20	3.04	0.001199	± 2.5	PASS
		VN	-10	0.84	0.000331	± 2.5	PASS
		VN	0	4.74	0.001870	± 2.5	PASS
		VN	10	3.28	0.001294	± 2.5	PASS
		VN	20	0.23	0.000091	± 2.5	PASS
		VN	30	3.93	0.001550	± 2.5	PASS
		VN	40	2.41	0.000951	± 2.5	PASS
		VN	50	4.89	0.001929	± 2.5	PASS
	HCH	VN	-30	-0.61	-0.000238	± 2.5	PASS
		VN	-20	2.59	0.001010	± 2.5	PASS
		VN	-10	-0.02	-0.000008	± 2.5	PASS
		VN	0	-0.93	-0.000363	± 2.5	PASS
		VN	10	-1.38	-0.000538	± 2.5	PASS
		VN	20	4.82	0.001879	± 2.5	PASS
		VN	30	3.62	0.001411	± 2.5	PASS
		VN	40	3.4	0.001326	± 2.5	PASS

		VN	50	-1.82	-0.000710	± 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	1.29	0.000514	± 2.5	PASS
		VN	TN	2.19	0.000873	± 2.5	PASS
		VH	TN	3.03	0.001208	± 2.5	PASS
	MCH	VL	TN	0.64	0.000252	± 2.5	PASS
		VN	TN	4.9	0.001933	± 2.5	PASS
		VH	TN	3.83	0.001511	± 2.5	PASS
	HCH	VL	TN	-0.4	-0.000156	± 2.5	PASS
		VN	TN	3.6	0.001405	± 2.5	PASS
		VH	TN	-1.03	-0.000402	± 2.5	PASS
16QAM	LCH	VL	TN	-1.9	-0.000758	± 2.5	PASS
		VN	TN	2.85	0.001137	± 2.5	PASS
		VH	TN	4.69	0.001870	± 2.5	PASS
	MCH	VL	TN	-0.68	-0.000268	± 2.5	PASS
		VN	TN	4.72	0.001862	± 2.5	PASS
		VH	TN	3.8	0.001499	± 2.5	PASS
	HCH	VL	TN	-0.16	-0.000062	± 2.5	PASS
		VN	TN	1.34	0.000523	± 2.5	PASS
		VH	TN	-1.19	-0.000464	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.69	0.000674	± 2.5	PASS
		VN	-20	-0.05	-0.000020	± 2.5	PASS
		VN	-10	-0.28	-0.000112	± 2.5	PASS
		VN	0	-1.83	-0.000730	± 2.5	PASS
		VN	10	4.37	0.001743	± 2.5	PASS
		VN	20	0.32	0.000128	± 2.5	PASS
		VN	30	3.2	0.001276	± 2.5	PASS
		VN	40	4.5	0.001795	± 2.5	PASS
		VN	50	2.5	0.000997	± 2.5	PASS
	MCH	VN	-30	3.19	0.001258	± 2.5	PASS
		VN	-20	2.02	0.000797	± 2.5	PASS
		VN	-10	1.22	0.000481	± 2.5	PASS
		VN	0	3.75	0.001479	± 2.5	PASS

		VN	10	3.55	0.001400	± 2.5	PASS
		VN	20	1.28	0.000505	± 2.5	PASS
		VN	30	-1.33	-0.000525	± 2.5	PASS
		VN	40	0.82	0.000323	± 2.5	PASS
		VN	50	-0.52	-0.000205	± 2.5	PASS
	HCH	VN	-30	-0.29	-0.000113	± 2.5	PASS
		VN	-20	-1.61	-0.000628	± 2.5	PASS
		VN	-10	3.76	0.001467	± 2.5	PASS
		VN	0	3.39	0.001323	± 2.5	PASS
		VN	10	0.77	0.000300	± 2.5	PASS
		VN	20	-1.12	-0.000437	± 2.5	PASS
		VN	30	0.18	0.000070	± 2.5	PASS
		VN	40	2.57	0.001003	± 2.5	PASS
		VN	50	-1.51	-0.000589	± 2.5	PASS
QPSK	LCH	VN	-30	-1.66	-0.000662	± 2.5	PASS
		VN	-20	2.45	0.000977	± 2.5	PASS
		VN	-10	1.46	0.000582	± 2.5	PASS
		VN	0	2.68	0.001069	± 2.5	PASS
		VN	10	-1.29	-0.000514	± 2.5	PASS
		VN	20	1.11	0.000443	± 2.5	PASS
		VN	30	0.27	0.000108	± 2.5	PASS
		VN	40	1.94	0.000774	± 2.5	PASS
		VN	50	-0.41	-0.000164	± 2.5	PASS
	MCH	VN	-30	-0.05	-0.000020	± 2.5	PASS
		VN	-20	0.87	0.000343	± 2.5	PASS
		VN	-10	2.83	0.001116	± 2.5	PASS
		VN	0	2.47	0.000974	± 2.5	PASS
		VN	10	-0.88	-0.000347	± 2.5	PASS
		VN	20	-0.46	-0.000181	± 2.5	PASS
		VN	30	-1.92	-0.000757	± 2.5	PASS
		VN	40	2.66	0.001049	± 2.5	PASS
		VN	50	3.05	0.001203	± 2.5	PASS
	HCH	VN	-30	2.53	0.000987	± 2.5	PASS
		VN	-20	-0.3	-0.000117	± 2.5	PASS
		VN	-10	0.49	0.000191	± 2.5	PASS
		VN	0	1.51	0.000589	± 2.5	PASS
		VN	10	2.59	0.001011	± 2.5	PASS
		VN	20	3.72	0.001452	± 2.5	PASS
		VN	30	2.84	0.001108	± 2.5	PASS
		VN	40	1.14	0.000445	± 2.5	PASS
		VN	50	-0.39	-0.000152	± 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	1.72	0.000685	± 2.5	PASS
		VN	TN	-1.34	-0.000534	± 2.5	PASS
		VH	TN	2.77	0.001104	± 2.5	PASS
	MCH	VL	TN	1.22	0.000481	± 2.5	PASS
		VN	TN	-1.72	-0.000679	± 2.5	PASS
		VH	TN	4.18	0.001649	± 2.5	PASS
	HCH	VL	TN	0.13	0.000051	± 2.5	PASS
		VN	TN	1.2	0.000469	± 2.5	PASS
		VH	TN	0.15	0.000059	± 2.5	PASS
16QAM	LCH	VL	TN	2.38	0.000948	± 2.5	PASS
		VN	TN	2.73	0.001088	± 2.5	PASS
		VH	TN	1.03	0.000410	± 2.5	PASS
	MCH	VL	TN	2.91	0.001148	± 2.5	PASS
		VN	TN	1.66	0.000655	± 2.5	PASS
		VH	TN	2.9	0.001144	± 2.5	PASS
	HCH	VL	TN	3.92	0.001531	± 2.5	PASS
		VN	TN	2.43	0.000949	± 2.5	PASS
		VH	TN	-0.33	-0.000129	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.76	0.001100	± 2.5	PASS
		VN	-20	0.37	0.000147	± 2.5	PASS
		VN	-10	1.44	0.000574	± 2.5	PASS
		VN	0	-0.56	-0.000223	± 2.5	PASS
		VN	10	-1.09	-0.000434	± 2.5	PASS
		VN	20	4.29	0.001709	± 2.5	PASS
		VN	30	2.13	0.000849	± 2.5	PASS
		VN	40	4.54	0.001809	± 2.5	PASS
		VN	50	-0.14	-0.000056	± 2.5	PASS
	MCH	VN	-30	3.64	0.001436	± 2.5	PASS
		VN	-20	-0.5	-0.000197	± 2.5	PASS
		VN	-10	2.47	0.000974	± 2.5	PASS
		VN	0	4.29	0.001692	± 2.5	PASS
		VN	10	2.53	0.000998	± 2.5	PASS
		VN	20	4.44	0.001751	± 2.5	PASS

		VN	30	3.27	0.001290	± 2.5	PASS
		VN	40	3.9	0.001538	± 2.5	PASS
		VN	50	-1.21	-0.000477	± 2.5	PASS
	HCH	VN	-30	3.27	0.001277	± 2.5	PASS
		VN	-20	1.78	0.000695	± 2.5	PASS
		VN	-10	2.44	0.000953	± 2.5	PASS
		VN	0	3.45	0.001348	± 2.5	PASS
		VN	10	1.57	0.000613	± 2.5	PASS
		VN	20	3.85	0.001504	± 2.5	PASS
		VN	30	1.34	0.000523	± 2.5	PASS
		VN	40	-1.36	-0.000531	± 2.5	PASS
		VN	50	4.04	0.001578	± 2.5	PASS
QPSK	LCH	VN	-30	0.36	0.000143	± 2.5	PASS
		VN	-20	-1.49	-0.000594	± 2.5	PASS
		VN	-10	2.62	0.001044	± 2.5	PASS
		VN	0	4.44	0.001769	± 2.5	PASS
		VN	10	-1.6	-0.000637	± 2.5	PASS
		VN	20	-1.3	-0.000518	± 2.5	PASS
		VN	30	-0.7	-0.000279	± 2.5	PASS
		VN	40	1.42	0.000566	± 2.5	PASS
		VN	50	1.15	0.000458	± 2.5	PASS
	MCH	VN	-30	-1.15	-0.000454	± 2.5	PASS
		VN	-20	-0.83	-0.000327	± 2.5	PASS
		VN	-10	-1.99	-0.000785	± 2.5	PASS
		VN	0	3.66	0.001444	± 2.5	PASS
		VN	10	0.48	0.000189	± 2.5	PASS
		VN	20	-0.13	-0.000051	± 2.5	PASS
		VN	30	2.26	0.000892	± 2.5	PASS
		VN	40	3	0.001183	± 2.5	PASS
		VN	50	2.54	0.001002	± 2.5	PASS
	HCH	VN	-30	0.55	0.000215	± 2.5	PASS
		VN	-20	3.64	0.001422	± 2.5	PASS
		VN	-10	1.92	0.000750	± 2.5	PASS
		VN	0	4.78	0.001867	± 2.5	PASS
		VN	10	3.99	0.001559	± 2.5	PASS
		VN	20	3.21	0.001254	± 2.5	PASS
		VN	30	1.63	0.000637	± 2.5	PASS
		VN	40	-0.21	-0.000082	± 2.5	PASS
		VN	50	4.93	0.001926	± 2.5	PASS