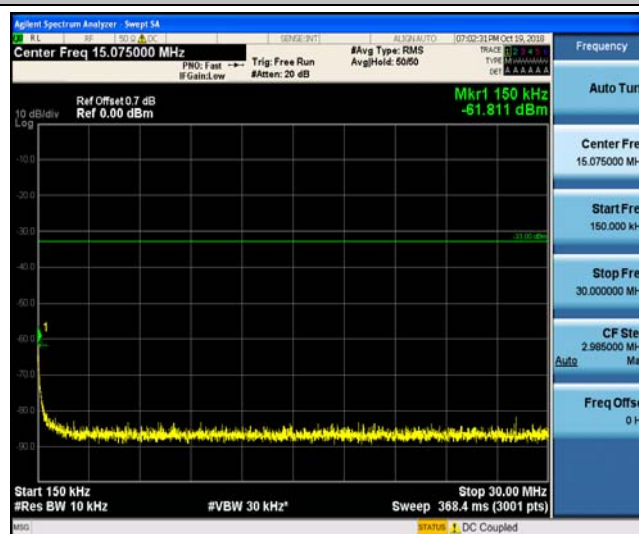




Band4\_5MHz\_16QAM\_20175\_1RB#0



Band4\_5MHz\_16QAM\_20175\_1RB#0



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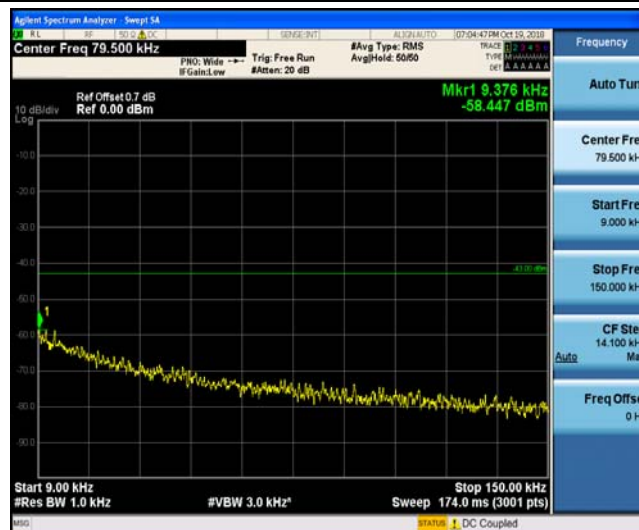
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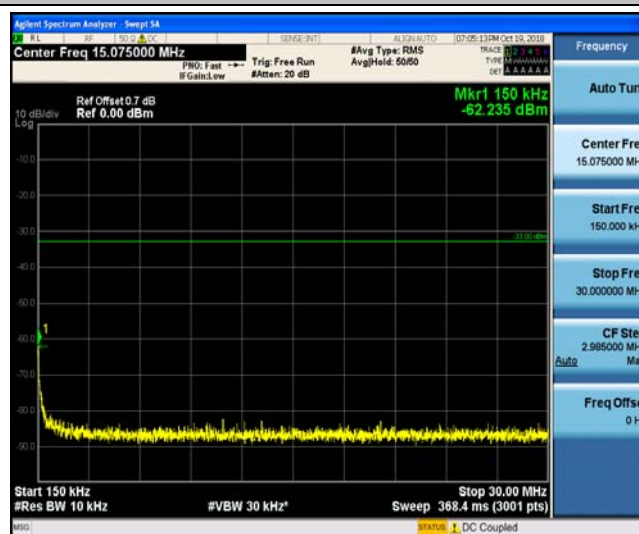
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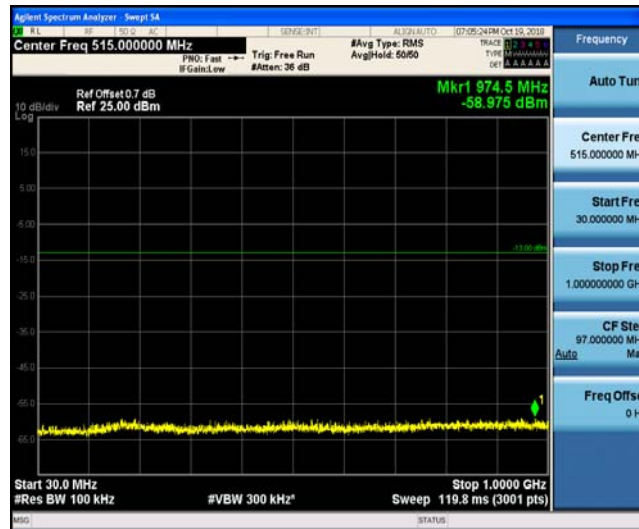
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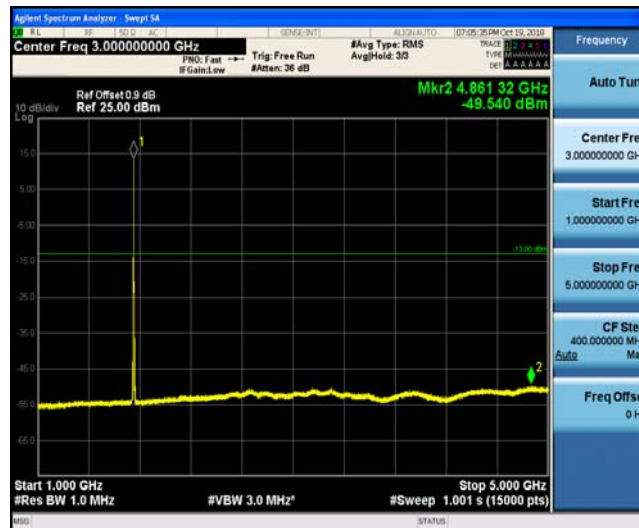
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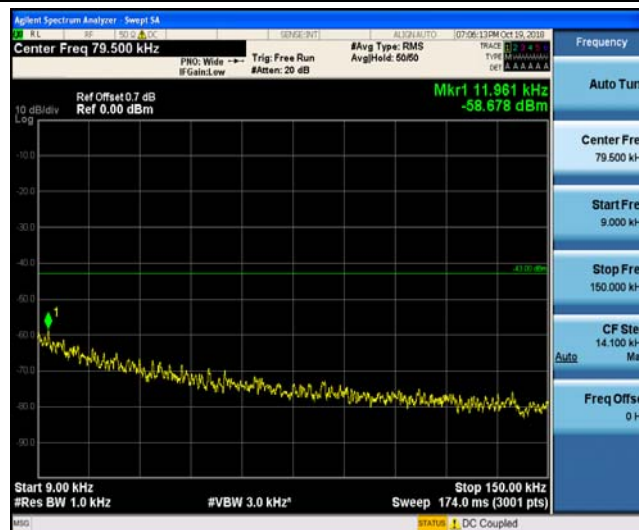
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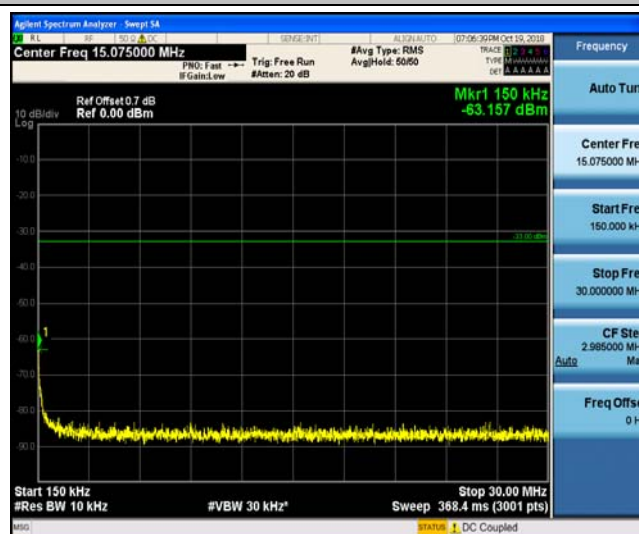
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Band4\_10MHz\_QPSK\_20000\_1RB#0



Band4\_10MHz\_QPSK\_20000\_1RB#0



Band4\_10MHz\_QPSK\_20000\_1RB#0





Band4\_10MHz\_QPSK\_20000\_1RB#0



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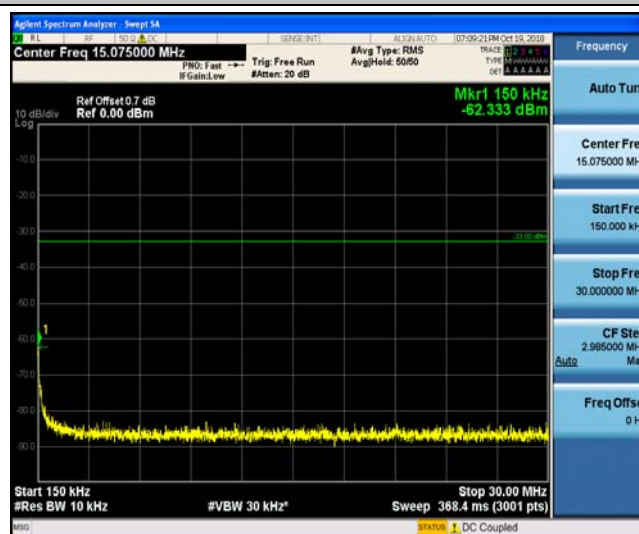
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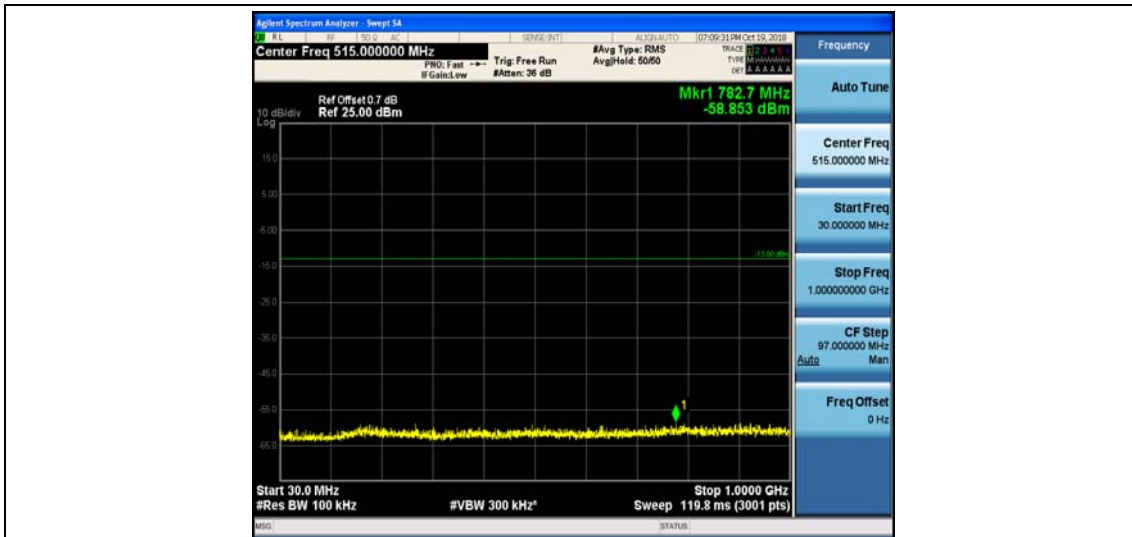
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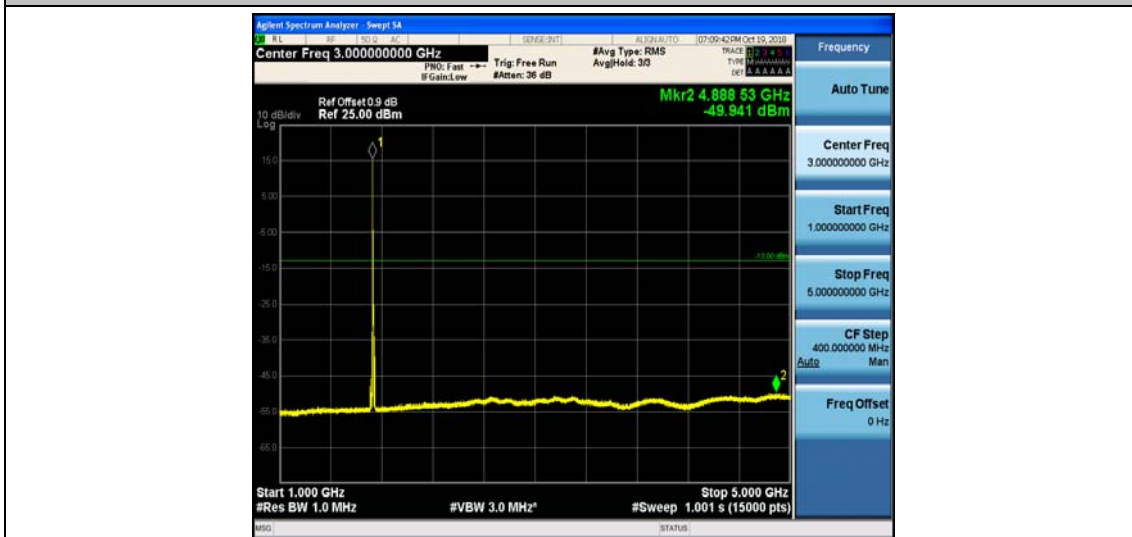
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Band4\_10MHz\_QPSK\_20175\_1RB#0



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Band4\_10MHz\_QPSK\_20175\_1RB#0

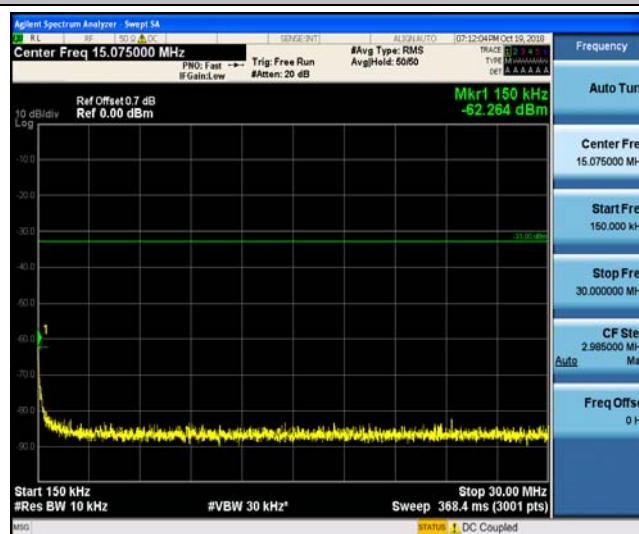




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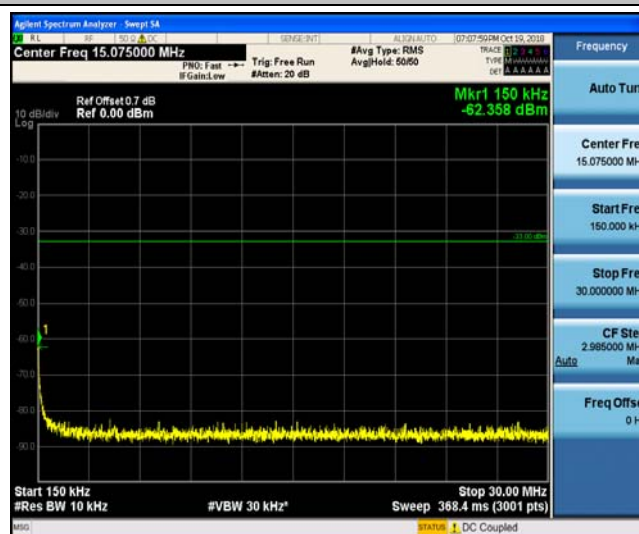
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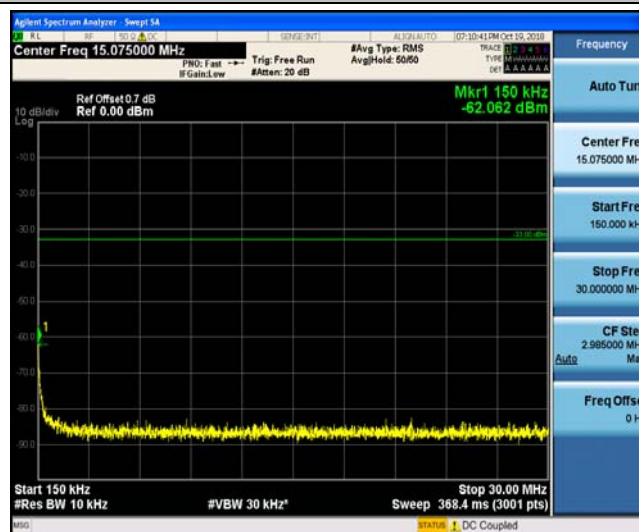
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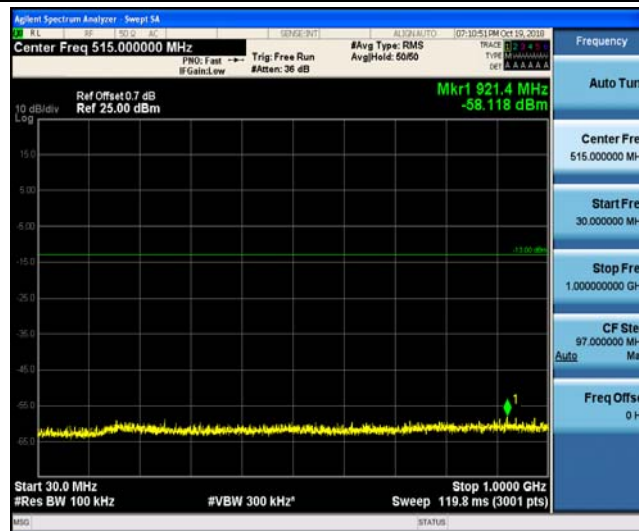


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Band4\_10MHz\_16QAM\_20175\_1RB#0



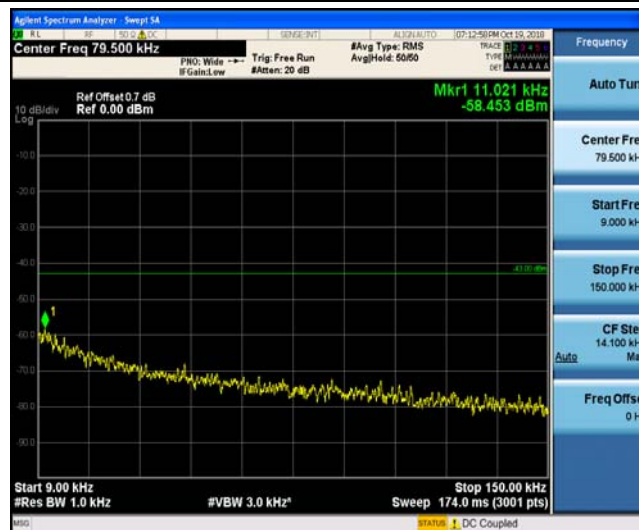
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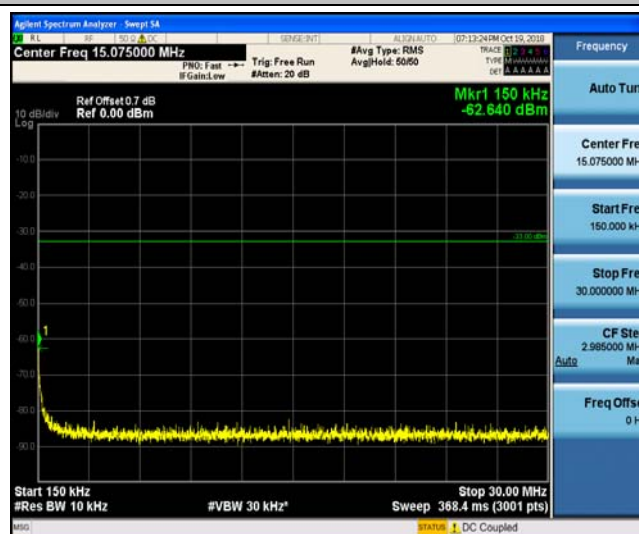
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Band4\_10MHz\_16QAM\_20350\_1RB#0



Band4\_10MHz\_16QAM\_20350\_1RB#0



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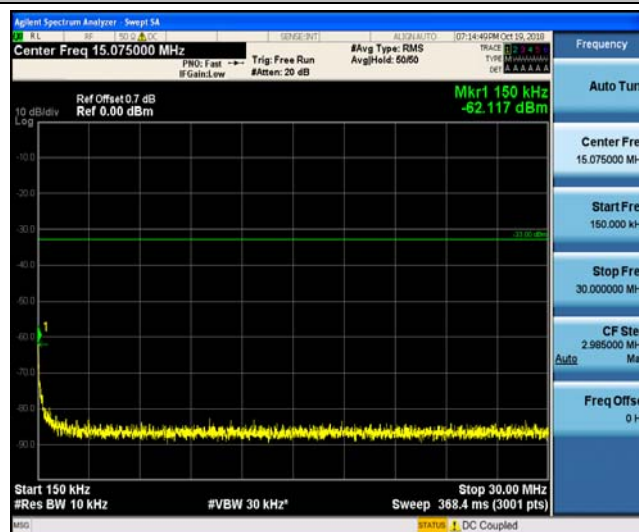
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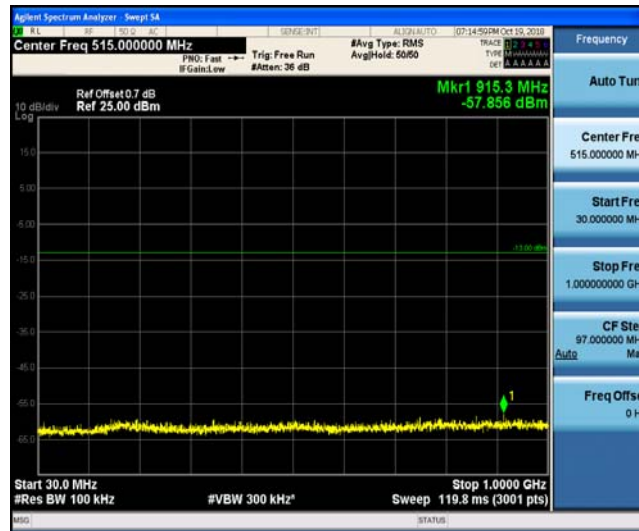
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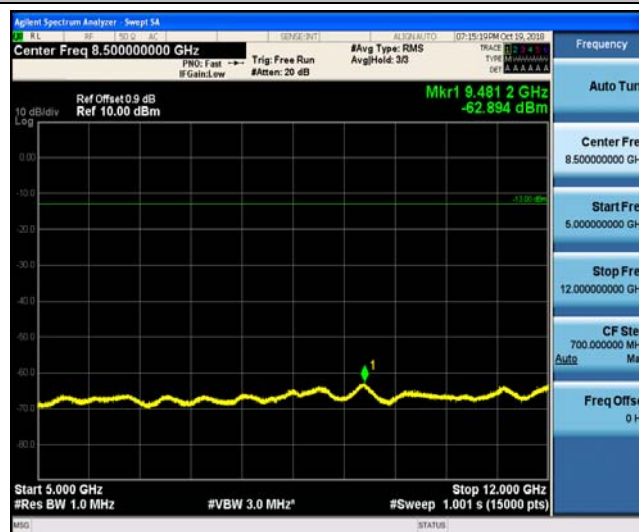
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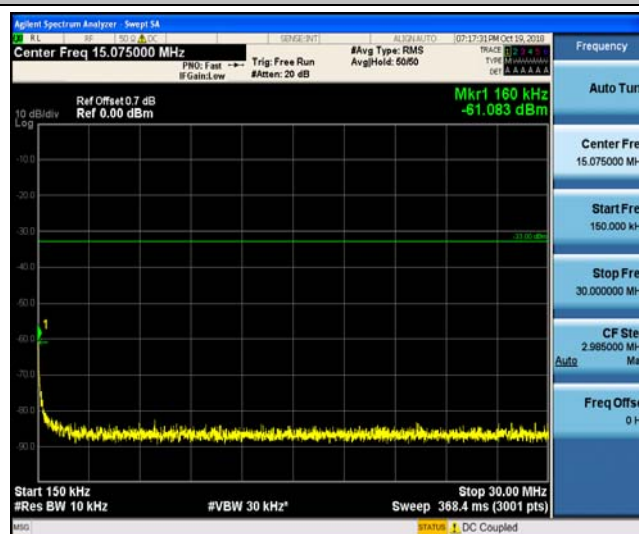




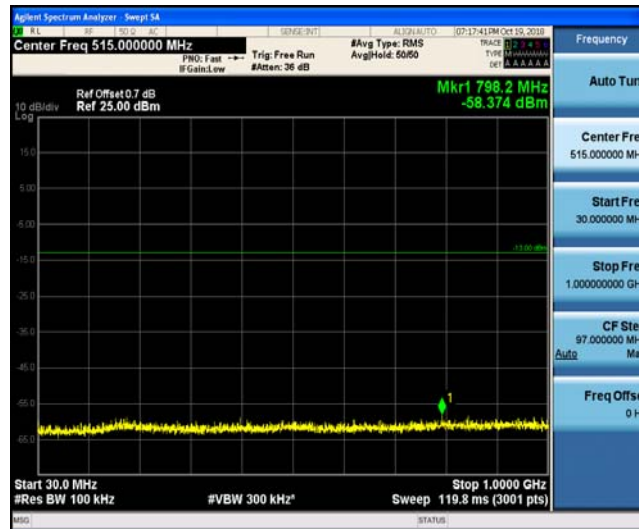
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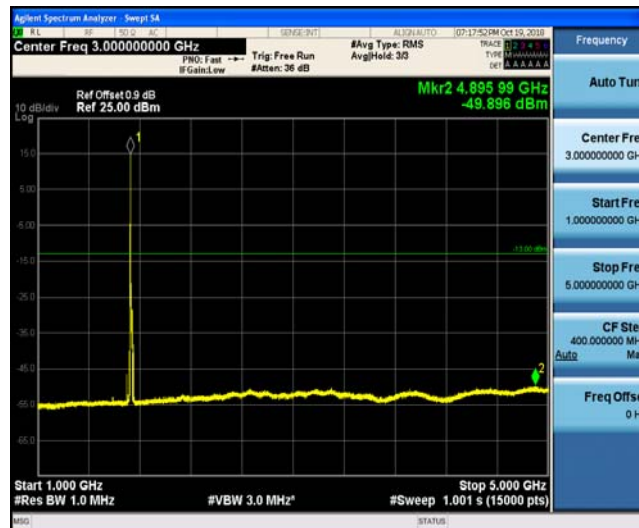
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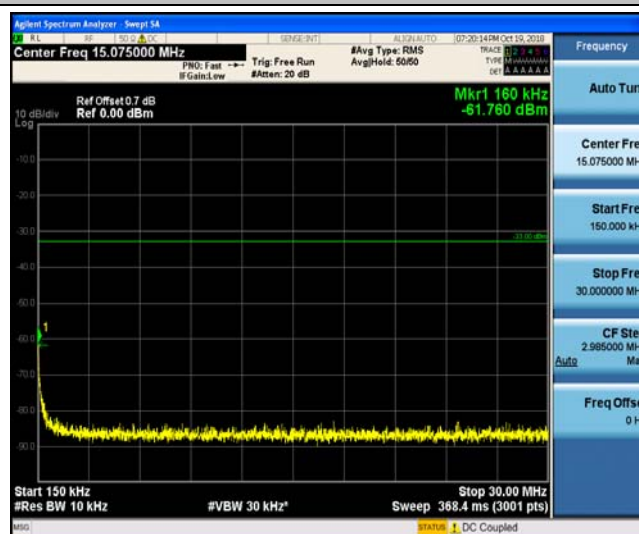
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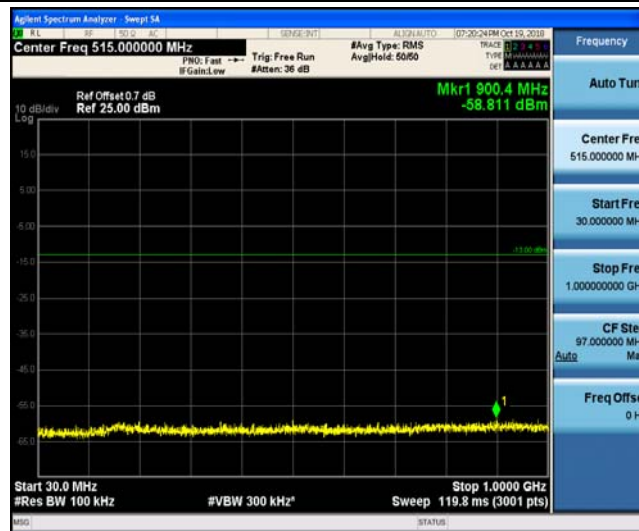
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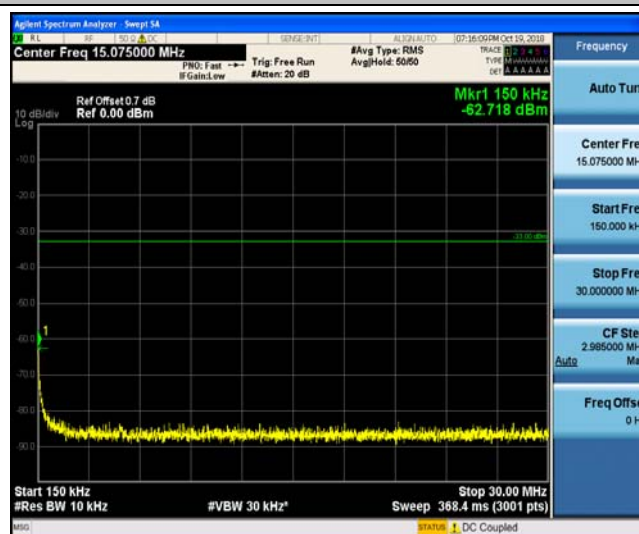
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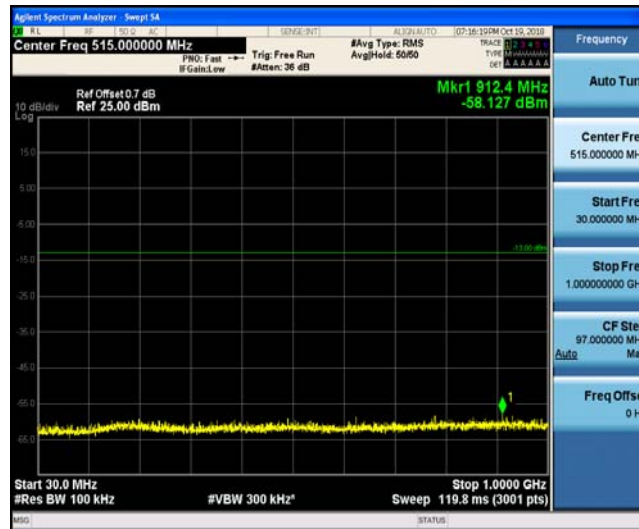


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Band4\_15MHz\_16QAM\_20025\_1RB#0

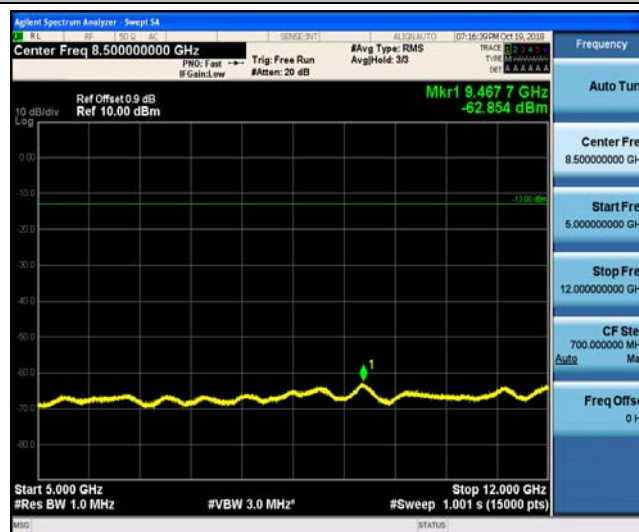




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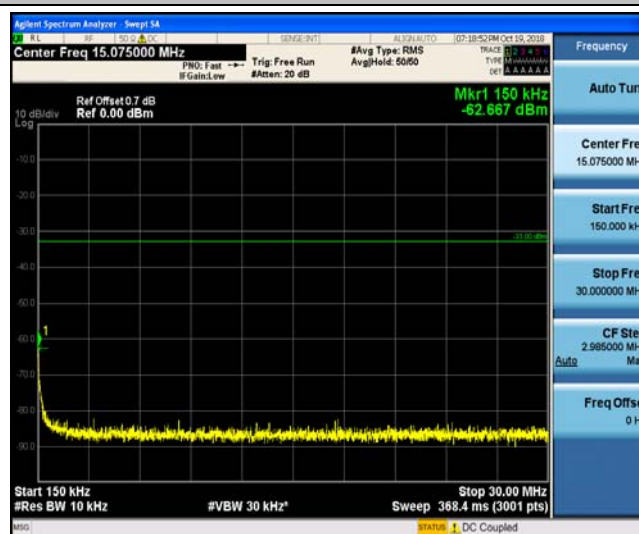
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Band4\_15MHz\_16QAM\_20175\_1RB#0



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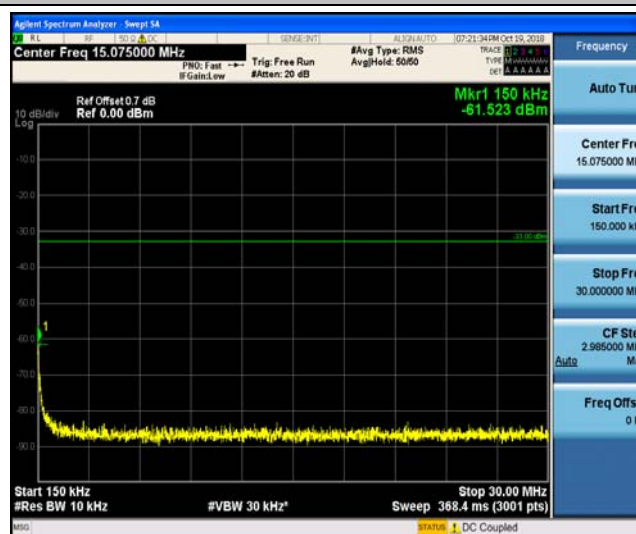
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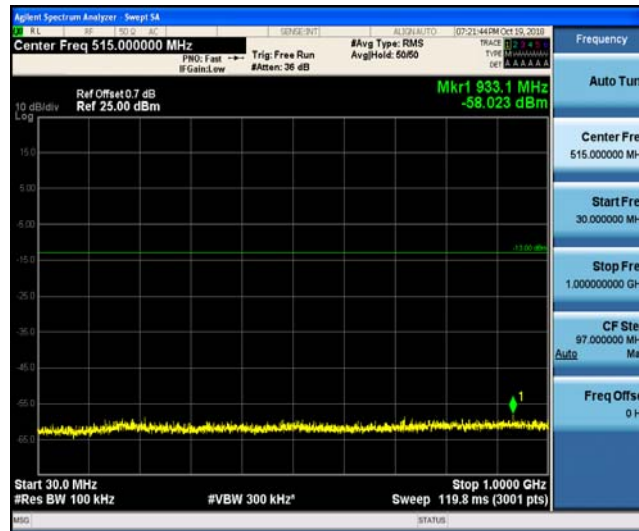
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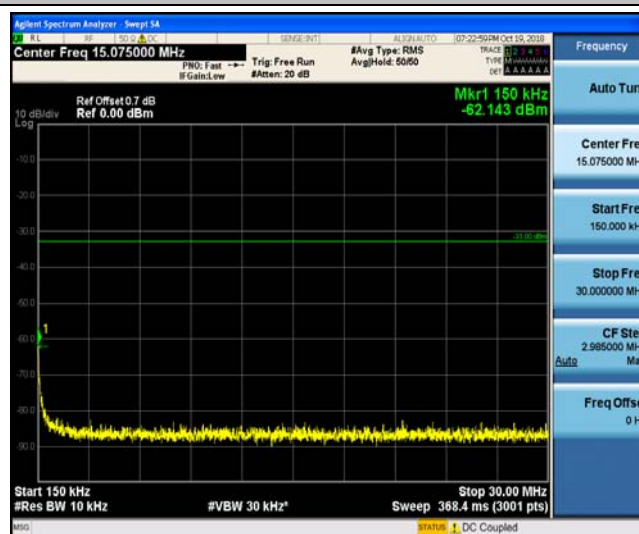




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Band4\_20MHz\_QPSK\_20050\_1RB#0



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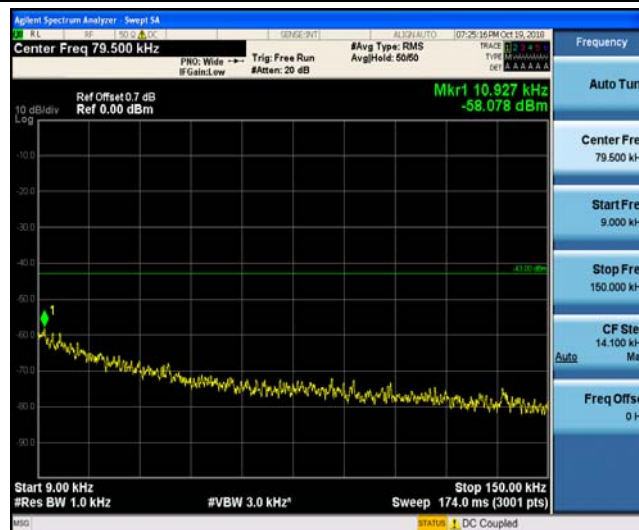
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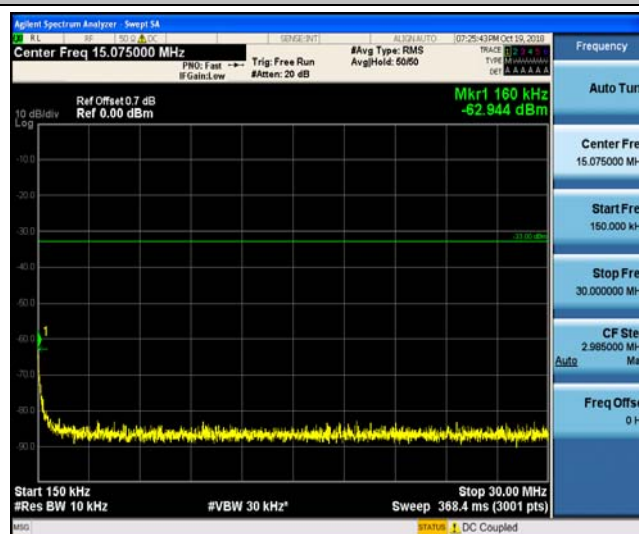
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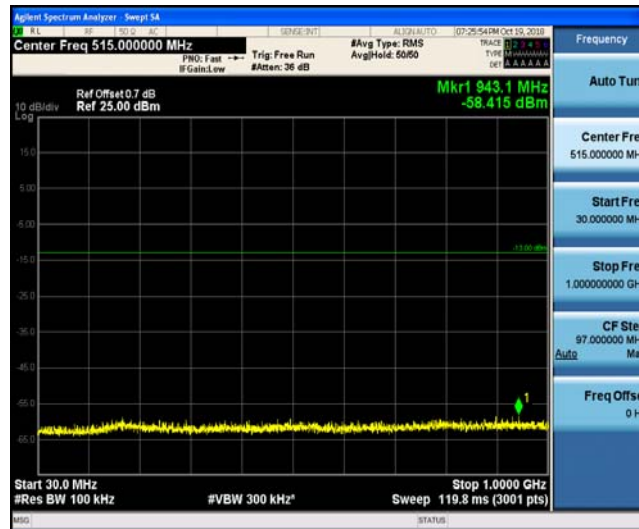
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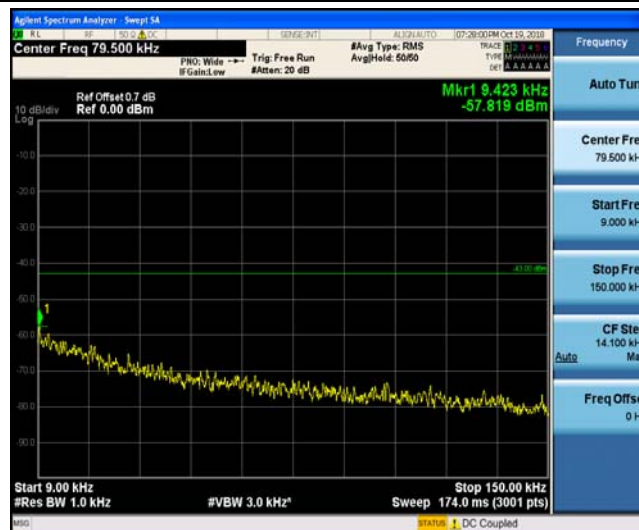
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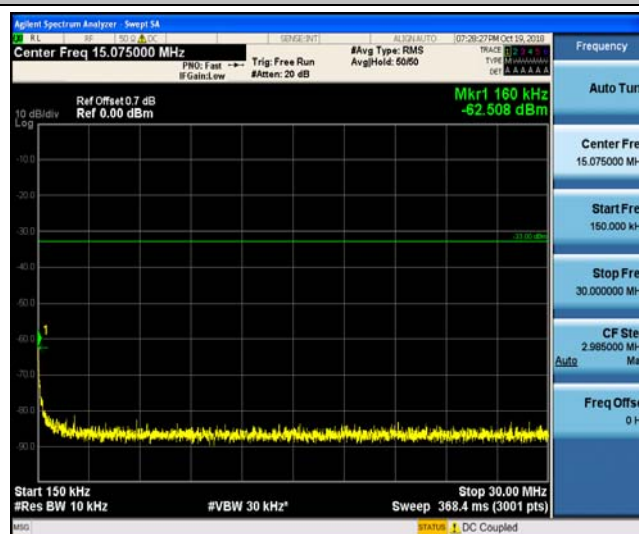
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Band4\_20MHz\_QPSK\_20300\_1RB#0



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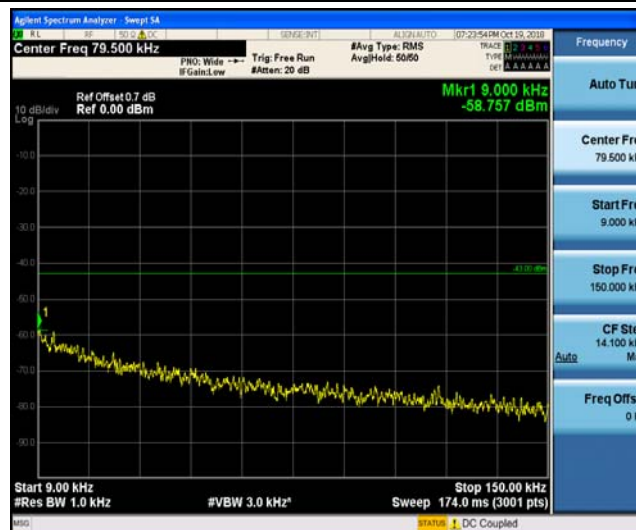
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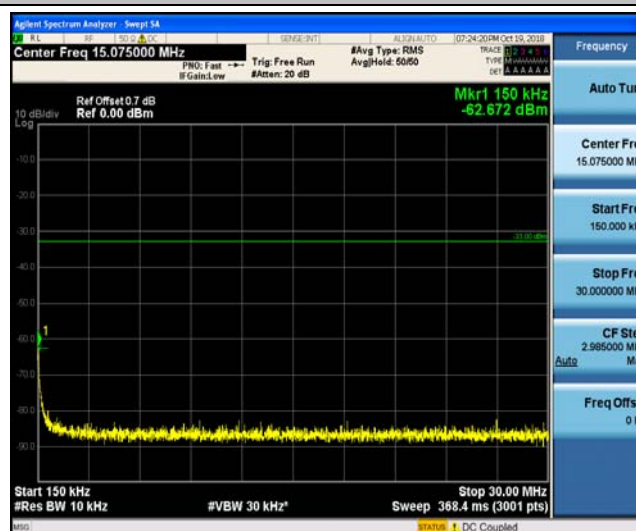
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Band4\_20MHz\_16QAM\_20050\_1RB#0



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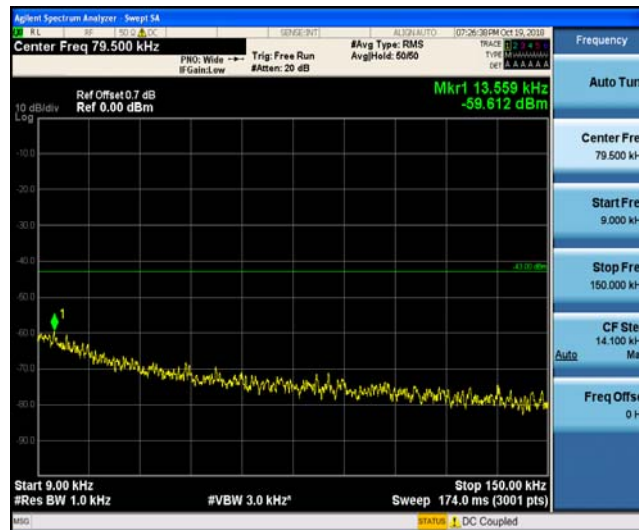
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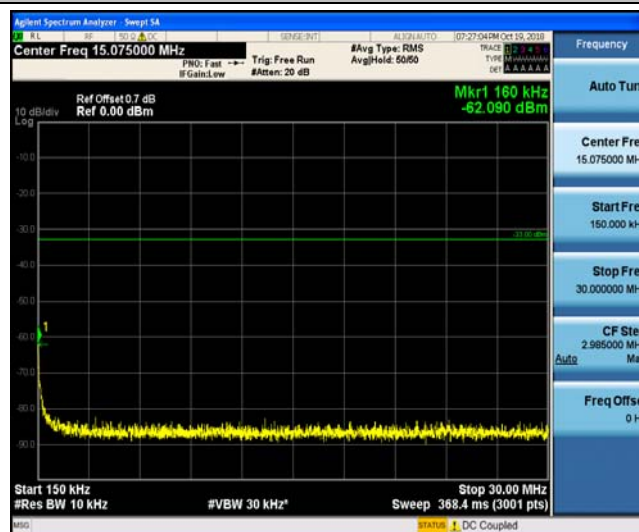
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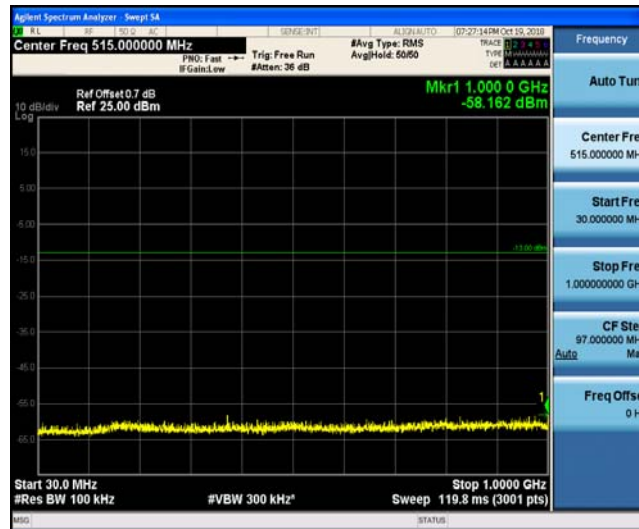
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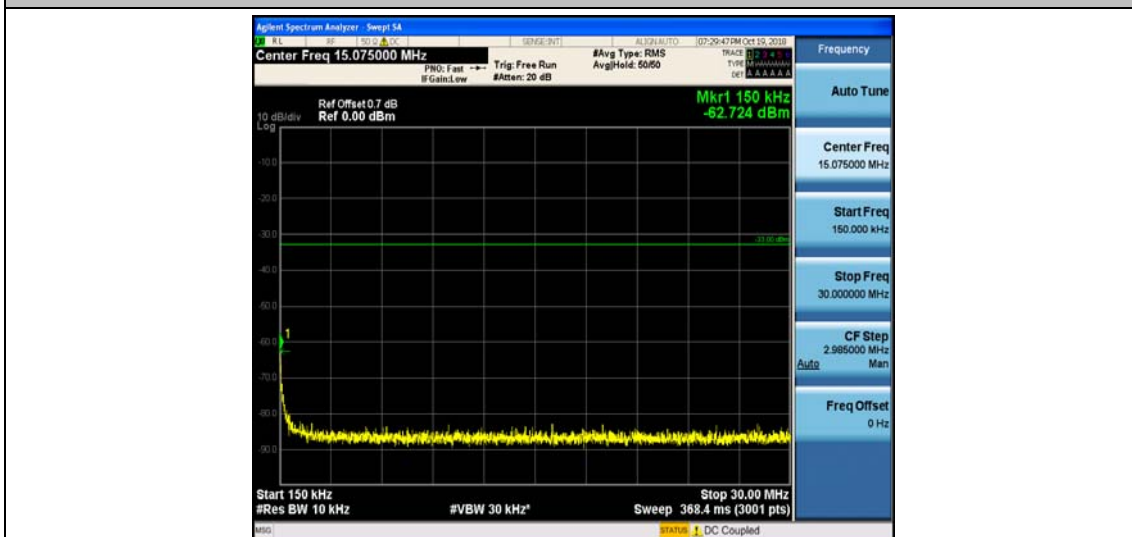




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Band4\_20MHz\_16QAM\_20300\_1RB#0



Band4\_20MHz\_16QAM\_20300\_1RB#0



Band4\_20MHz\_16QAM\_20300\_1RB#0



## Appendix F: Frequency Stability

### Test Result

**Channel Bandwidth: 1.4 MHz**

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	0.75	0.000438	± 2.5	PASS
		VN	TN	3.67	0.002145	± 2.5	PASS
		VH	TN	4.99	0.002917	± 2.5	PASS
	MCH	VL	TN	3.33	0.001922	± 2.5	PASS
		VN	TN	2.39	0.001380	± 2.5	PASS
		VH	TN	0.74	0.000427	± 2.5	PASS
	HCH	VL	TN	3.52	0.002006	± 2.5	PASS
		VN	TN	0.86	0.000490	± 2.5	PASS
		VH	TN	3.52	0.002006	± 2.5	PASS
16QAM	LCH	VL	TN	3.05	0.001783	± 2.5	PASS
		VN	TN	0.1	0.000058	± 2.5	PASS
		VH	TN	-1.09	-0.000637	± 2.5	PASS
	MCH	VL	TN	0.24	0.000139	± 2.5	PASS
		VN	TN	2.05	0.001183	± 2.5	PASS
		VH	TN	2	0.001154	± 2.5	PASS
	HCH	VL	TN	0.14	0.000080	± 2.5	PASS
		VN	TN	-1.45	-0.000827	± 2.5	PASS
		VH	TN	0.91	0.000519	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.9	0.000526	± 2.5	PASS
		VN	-20	2.13	0.001245	± 2.5	PASS
		VN	-10	2.73	0.001596	± 2.5	PASS
		VN	0	1.29	0.000754	± 2.5	PASS
		VN	10	0.87	0.000509	± 2.5	PASS
		VN	20	-0.39	-0.000228	± 2.5	PASS
		VN	30	1.75	0.001023	± 2.5	PASS
		VN	40	1.92	0.001122	± 2.5	PASS
		VN	50	4.94	0.002888	± 2.5	PASS
	MCH	VN	-30	-1.75	-0.001010	± 2.5	PASS

		VN	-20	1.15	0.000664	± 2.5	PASS
		VN	-10	4.81	0.002776	± 2.5	PASS
		VN	0	-0.85	-0.000491	± 2.5	PASS
		VN	10	1.93	0.001114	± 2.5	PASS
		VN	20	4.79	0.002765	± 2.5	PASS
		VN	30	-0.97	-0.000560	± 2.5	PASS
		VN	40	1.27	0.000733	± 2.5	PASS
		VN	50	3.24	0.001870	± 2.5	PASS
	HCH	VN	-30	0.55	0.000314	± 2.5	PASS
		VN	-20	2.54	0.001448	± 2.5	PASS
		VN	-10	3.51	0.002001	± 2.5	PASS
		VN	0	0.62	0.000353	± 2.5	PASS
		VN	10	-0.01	-0.000006	± 2.5	PASS
		VN	20	1.14	0.000650	± 2.5	PASS
		VN	30	-1.6	-0.000912	± 2.5	PASS
		VN	40	1.28	0.000730	± 2.5	PASS
		VN	50	-1.8	-0.001026	± 2.5	PASS
16QAM	LCH	VN	-30	3.25	0.001900	± 2.5	PASS
		VN	-20	4.75	0.002777	± 2.5	PASS
		VN	-10	2.83	0.001654	± 2.5	PASS
		VN	0	-1.5	-0.000877	± 2.5	PASS
		VN	10	1.99	0.001163	± 2.5	PASS
		VN	20	2.26	0.001321	± 2.5	PASS
		VN	30	3.81	0.002227	± 2.5	PASS
		VN	40	-1.03	-0.000602	± 2.5	PASS
		VN	50	-0.71	-0.000415	± 2.5	PASS
	MCH	VN	-30	3.56	0.002029	± 2.5	PASS
		VN	-20	2.58	0.001471	± 2.5	PASS
		VN	-10	0.8	0.000456	± 2.5	PASS
		VN	0	3.43	0.001955	± 2.5	PASS
		VN	10	-0.95	-0.000542	± 2.5	PASS
		VN	20	-0.16	-0.000091	± 2.5	PASS
		VN	30	-0.27	-0.000154	± 2.5	PASS
		VN	40	1.65	0.000941	± 2.5	PASS
		VN	50	-0.42	-0.000239	± 2.5	PASS
	HCH	VN	-30	3.59	0.002046	± 2.5	PASS
		VN	-20	1.66	0.000946	± 2.5	PASS
		VN	-10	4.28	0.002440	± 2.5	PASS
		VN	0	4.72	0.002691	± 2.5	PASS
		VN	10	0.8	0.000456	± 2.5	PASS
		VN	20	2.25	0.001283	± 2.5	PASS



		VN	30	-1.06	-0.000604	± 2.5	PASS
		VN	40	-0.74	-0.000422	± 2.5	PASS
		VN	50	-0.44	-0.000251	± 2.5	PASS

### Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.51	0.002635	± 2.5	PASS
		VN	TN	-0.01	-0.000006	± 2.5	PASS
		VH	TN	-1.66	-0.000970	± 2.5	PASS
	MCH	VL	TN	-0.2	-0.000115	± 2.5	PASS
		VN	TN	4.25	0.002453	± 2.5	PASS
		VH	TN	-0.84	-0.000485	± 2.5	PASS
	HCH	VL	TN	1.81	0.001032	± 2.5	PASS
		VN	TN	-1.6	-0.000912	± 2.5	PASS
		VH	TN	0.45	0.000257	± 2.5	PASS
16QAM	LCH	VL	TN	-0.03	-0.000018	± 2.5	PASS
		VN	TN	1.95	0.001139	± 2.5	PASS
		VH	TN	1.52	0.000888	± 2.5	PASS
	MCH	VL	TN	2.96	0.001709	± 2.5	PASS
		VN	TN	-0.73	-0.000421	± 2.5	PASS
		VH	TN	2.93	0.001691	± 2.5	PASS
	HCH	VL	TN	0.61	0.000348	± 2.5	PASS
		VN	TN	1.94	0.001106	± 2.5	PASS
		VH	TN	4.69	0.002675	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.92	0.002290	± 2.5	PASS
		VN	-20	-0.72	-0.000421	± 2.5	PASS
		VN	-10	2.27	0.001326	± 2.5	PASS
		VN	0	-1.85	-0.001081	± 2.5	PASS
		VN	10	4.91	0.002869	± 2.5	PASS
		VN	20	0.33	0.000193	± 2.5	PASS
		VN	30	3.61	0.002109	± 2.5	PASS
		VN	40	4.54	0.002653	± 2.5	PASS
		VN	50	3.1	0.001811	± 2.5	PASS
	MCH	VN	-30	-1.5	-0.000866	± 2.5	PASS
		VN	-20	2.18	0.001258	± 2.5	PASS

		VN	-10	0.15	0.000087	± 2.5	PASS
		VN	0	0.52	0.000300	± 2.5	PASS
		VN	10	2.86	0.001651	± 2.5	PASS
		VN	20	-1.51	-0.000872	± 2.5	PASS
		VN	30	2.51	0.001449	± 2.5	PASS
		VN	40	-0.12	-0.000069	± 2.5	PASS
		VN	50	1.57	0.000906	± 2.5	PASS
	HCH	VN	-30	0.84	0.000479	± 2.5	PASS
		VN	-20	-1.95	-0.001112	± 2.5	PASS
		VN	-10	-1.92	-0.001095	± 2.5	PASS
		VN	0	-1.05	-0.000599	± 2.5	PASS
		VN	10	-0.77	-0.000439	± 2.5	PASS
		VN	20	0.11	0.000063	± 2.5	PASS
		VN	30	4.39	0.002504	± 2.5	PASS
		VN	40	1.76	0.001004	± 2.5	PASS
		VN	50	1.36	0.000776	± 2.5	PASS
QPSK	LCH	VN	-30	4.33	0.002499	± 2.5	PASS
		VN	-20	-1.57	-0.000906	± 2.5	PASS
		VN	-10	-0.13	-0.000075	± 2.5	PASS
		VN	0	1.57	0.000906	± 2.5	PASS
		VN	10	-1.83	-0.001056	± 2.5	PASS
		VN	20	2.24	0.001293	± 2.5	PASS
		VN	30	1.76	0.001016	± 2.5	PASS
		VN	40	-0.51	-0.000294	± 2.5	PASS
		VN	50	-1.91	-0.001102	± 2.5	PASS
	MCH	VN	-30	3.9	0.002224	± 2.5	PASS
		VN	-20	2.8	0.001597	± 2.5	PASS
		VN	-10	-1.84	-0.001049	± 2.5	PASS
		VN	0	1.16	0.000662	± 2.5	PASS
		VN	10	3.16	0.001802	± 2.5	PASS
		VN	20	4.36	0.002486	± 2.5	PASS
		VN	30	-0.7	-0.000399	± 2.5	PASS
		VN	40	1.03	0.000587	± 2.5	PASS
		VN	50	-0.02	-0.000011	± 2.5	PASS
	HCH	VN	-30	3.96	0.002258	± 2.5	PASS
		VN	-20	0.72	0.000411	± 2.5	PASS
		VN	-10	2.26	0.001289	± 2.5	PASS
		VN	0	3.4	0.001939	± 2.5	PASS
		VN	10	4.65	0.002652	± 2.5	PASS
		VN	20	1.06	0.000605	± 2.5	PASS
		VN	30	-0.12	-0.000068	± 2.5	PASS

		VN	40	-1.74	-0.000992	± 2.5	PASS
		VN	50	2.16	0.001232	± 2.5	PASS

### Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	0.26	0.000152	± 2.5	PASS
		VN	TN	4.45	0.002599	± 2.5	PASS
		VH	TN	1.01	0.000590	± 2.5	PASS
	MCH	VL	TN	-1.39	-0.000802	± 2.5	PASS
		VN	TN	-1.33	-0.000768	± 2.5	PASS
		VH	TN	-1.95	-0.001126	± 2.5	PASS
	HCH	VL	TN	4.39	0.002505	± 2.5	PASS
		VN	TN	-0.9	-0.000514	± 2.5	PASS
		VH	TN	3.51	0.002003	± 2.5	PASS
16QAM	LCH	VL	TN	0.08	0.000047	± 2.5	PASS
		VN	TN	4	0.002336	± 2.5	PASS
		VH	TN	0.89	0.000520	± 2.5	PASS
	MCH	VL	TN	-0.67	-0.000387	± 2.5	PASS
		VN	TN	2.91	0.001680	± 2.5	PASS
		VH	TN	-1.07	-0.000618	± 2.5	PASS
	HCH	VL	TN	-0.1	-0.000057	± 2.5	PASS
		VN	TN	-1.5	-0.000856	± 2.5	PASS
		VH	TN	4.66	0.002659	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.75	0.002190	± 2.5	PASS
		VN	-20	0.49	0.000286	± 2.5	PASS
		VN	-10	-1.47	-0.000858	± 2.5	PASS
		VN	0	4.5	0.002628	± 2.5	PASS
		VN	10	1.7	0.000993	± 2.5	PASS
		VN	20	3.76	0.002196	± 2.5	PASS
		VN	30	2.12	0.001238	± 2.5	PASS
		VN	40	-0.45	-0.000263	± 2.5	PASS
		VN	50	0.37	0.000216	± 2.5	PASS
	MCH	VN	-30	1.07	0.000618	± 2.5	PASS
		VN	-20	0.84	0.000485	± 2.5	PASS
		VN	-10	1.18	0.000681	± 2.5	PASS

		VN	0	4.78	0.002759	± 2.5	PASS
		VN	10	0.17	0.000098	± 2.5	PASS
		VN	20	3.82	0.002205	± 2.5	PASS
		VN	30	3.23	0.001864	± 2.5	PASS
		VN	40	-1.48	-0.000854	± 2.5	PASS
		VN	50	4.1	0.002367	± 2.5	PASS
	HCH	VN	-30	1.8	0.001027	± 2.5	PASS
		VN	-20	1.45	0.000760	± 2.5	PASS
		VN	-10	-0.78	-0.000409	± 2.5	PASS
		VN	0	0.33	0.000173	± 2.5	PASS
		VN	10	-0.21	-0.000110	± 2.5	PASS
		VN	20	1.02	0.000535	± 2.5	PASS
		VN	30	0.24	0.000126	± 2.5	PASS
		VN	40	-0.24	-0.000126	± 2.5	PASS
		VN	50	0.99	0.000519	± 2.5	PASS
16QAM	LCH	VN	-30	-1.49	-0.000860	± 2.5	PASS
		VN	-20	3.62	0.002089	± 2.5	PASS
		VN	-10	0.8	0.000462	± 2.5	PASS
		VN	0	-1.02	-0.000589	± 2.5	PASS
		VN	10	3.94	0.002274	± 2.5	PASS
		VN	20	4.53	0.002615	± 2.5	PASS
		VN	30	4.97	0.002869	± 2.5	PASS
		VN	40	2.59	0.001495	± 2.5	PASS
		VN	50	-0.56	-0.000323	± 2.5	PASS
	MCH	VN	-30	2.49	0.001421	± 2.5	PASS
		VN	-20	0.13	0.000074	± 2.5	PASS
		VN	-10	-0.12	-0.000068	± 2.5	PASS
		VN	0	-0.06	-0.000034	± 2.5	PASS
		VN	10	2.21	0.001261	± 2.5	PASS
		VN	20	-0.2	-0.000114	± 2.5	PASS
		VN	30	-0.73	-0.000417	± 2.5	PASS
		VN	40	0.15	0.000086	± 2.5	PASS
		VN	50	-1.41	-0.000805	± 2.5	PASS
	HCH	VN	-30	0.85	0.000446	± 2.5	PASS
		VN	-20	1.31	0.000687	± 2.5	PASS
		VN	-10	0.03	0.000016	± 2.5	PASS
		VN	0	2.95	0.001547	± 2.5	PASS
		VN	10	1.94	0.001017	± 2.5	PASS
		VN	20	3.77	0.001976	± 2.5	PASS
		VN	30	2.41	0.001263	± 2.5	PASS
		VN	40	1.85	0.000970	± 2.5	PASS

		VN	50	0.87	0.000456	± 2.5	PASS
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### Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.56	-0.000327	± 2.5	PASS
		VN	TN	3.81	0.002222	± 2.5	PASS
		VH	TN	1.17	0.000682	± 2.5	PASS
	MCH	VL	TN	-1.37	-0.000791	± 2.5	PASS
		VN	TN	-1.06	-0.000612	± 2.5	PASS
		VH	TN	1.74	0.001004	± 2.5	PASS
	HCH	VL	TN	4.08	0.002331	± 2.5	PASS
		VN	TN	-0.32	-0.000183	± 2.5	PASS
		VH	TN	-1.61	-0.000920	± 2.5	PASS
16QAM	LCH	VL	TN	-1.78	-0.001038	± 2.5	PASS
		VN	TN	1.62	0.000945	± 2.5	PASS
		VH	TN	-1.73	-0.001009	± 2.5	PASS
	MCH	VL	TN	4.09	0.002361	± 2.5	PASS
		VN	TN	4.5	0.002597	± 2.5	PASS
		VH	TN	1.15	0.000664	± 2.5	PASS
	HCH	VL	TN	3.93	0.002246	± 2.5	PASS
		VN	TN	3.07	0.001754	± 2.5	PASS
		VH	TN	-0.09	-0.000051	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	1.95	0.001137	± 2.5	PASS
		VN	-20	-0.17	-0.000099	± 2.5	PASS
		VN	-10	0.15	0.000087	± 2.5	PASS
		VN	0	-0.59	-0.000344	± 2.5	PASS
		VN	10	4.76	0.002776	± 2.5	PASS
		VN	20	0.62	0.000362	± 2.5	PASS
		VN	30	3.85	0.002245	± 2.5	PASS
		VN	40	3.42	0.001994	± 2.5	PASS
		VN	50	0.37	0.000216	± 2.5	PASS
	MCH	VN	-30	0.52	0.000300	± 2.5	PASS
		VN	-20	-1.01	-0.000583	± 2.5	PASS
		VN	-10	1.55	0.000895	± 2.5	PASS
		VN	0	-0.74	-0.000427	± 2.5	PASS



		VN	10	2.38	0.001374	± 2.5	PASS
		VN	20	3.35	0.001934	± 2.5	PASS
		VN	30	-1.35	-0.000779	± 2.5	PASS
		VN	40	4.7	0.002713	± 2.5	PASS
		VN	50	1.85	0.001068	± 2.5	PASS
	HCH	VN	-30	-1.58	-0.000903	± 2.5	PASS
		VN	-20	0.06	0.000034	± 2.5	PASS
		VN	-10	0.39	0.000223	± 2.5	PASS
		VN	0	0.65	0.000371	± 2.5	PASS
		VN	10	3.23	0.001846	± 2.5	PASS
		VN	20	-0.2	-0.000114	± 2.5	PASS
		VN	30	-0.55	-0.000314	± 2.5	PASS
		VN	40	3.71	0.002120	± 2.5	PASS
		VN	50	4.82	0.002754	± 2.5	PASS
		VN	-30	-0.45	-0.000260	± 2.5	PASS
QPSK	LCH	VN	-20	4.37	0.002522	± 2.5	PASS
		VN	-10	0.22	0.000127	± 2.5	PASS
		VN	0	1.31	0.000756	± 2.5	PASS
		VN	10	-0.85	-0.000491	± 2.5	PASS
		VN	20	-0.94	-0.000543	± 2.5	PASS
		VN	30	0.54	0.000312	± 2.5	PASS
		VN	40	0.02	0.000012	± 2.5	PASS
		VN	50	-1.94	-0.001120	± 2.5	PASS
	MCH	VN	-30	0.25	0.000143	± 2.5	PASS
		VN	-20	4.5	0.002571	± 2.5	PASS
		VN	-10	-1.34	-0.000766	± 2.5	PASS
		VN	0	3.63	0.002074	± 2.5	PASS
		VN	10	4.15	0.002371	± 2.5	PASS
		VN	20	3.75	0.002143	± 2.5	PASS
		VN	30	4.44	0.002537	± 2.5	PASS
		VN	40	1.58	0.000903	± 2.5	PASS
		VN	50	0.55	0.000314	± 2.5	PASS
	HCH	VN	-30	0.32	0.000183	± 2.5	PASS
		VN	-20	1.32	0.000754	± 2.5	PASS
		VN	-10	-1.11	-0.000634	± 2.5	PASS
		VN	0	1.2	0.000686	± 2.5	PASS
		VN	10	3.97	0.002269	± 2.5	PASS
		VN	20	-1.86	-0.001063	± 2.5	PASS
		VN	30	2.36	0.001349	± 2.5	PASS
		VN	40	1.16	0.000663	± 2.5	PASS
		VN	50	0.37	0.000211	± 2.5	PASS

## Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	3.09	0.001799	± 2.5	PASS
		VN	TN	-0.77	-0.000448	± 2.5	PASS
		VH	TN	-1.61	-0.000937	± 2.5	PASS
	MCH	VL	TN	2.05	0.001183	± 2.5	PASS
		VN	TN	2.57	0.001483	± 2.5	PASS
		VH	TN	-1.45	-0.000837	± 2.5	PASS
	HCH	VL	TN	3.43	0.001963	± 2.5	PASS
		VN	TN	3.9	0.002232	± 2.5	PASS
		VH	TN	3.05	0.001745	± 2.5	PASS
16QAM	LCH	VL	TN	1.38	0.000803	± 2.5	PASS
		VN	TN	-1.8	-0.001048	± 2.5	PASS
		VH	TN	0.51	0.000297	± 2.5	PASS
	MCH	VL	TN	3.49	0.002014	± 2.5	PASS
		VN	TN	0.25	0.000144	± 2.5	PASS
		VH	TN	2.95	0.001703	± 2.5	PASS
	HCH	VL	TN	4.28	0.002449	± 2.5	PASS
		VN	TN	0.74	0.000423	± 2.5	PASS
		VH	TN	1.93	0.001104	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.21	0.000122	± 2.5	PASS
		VN	-20	-0.28	-0.000163	± 2.5	PASS
		VN	-10	1.33	0.000774	± 2.5	PASS
		VN	0	0.21	0.000122	± 2.5	PASS
		VN	10	4.99	0.002905	± 2.5	PASS
		VN	20	3.27	0.001904	± 2.5	PASS
		VN	30	3.78	0.002201	± 2.5	PASS
		VN	40	0.87	0.000507	± 2.5	PASS
		VN	50	-0.85	-0.000495	± 2.5	PASS
	MCH	VN	-30	-0.88	-0.000508	± 2.5	PASS
		VN	-20	-1.24	-0.000716	± 2.5	PASS
		VN	-10	-0.83	-0.000479	± 2.5	PASS
		VN	0	4.13	0.002384	± 2.5	PASS
		VN	10	1.81	0.001045	± 2.5	PASS
		VN	20	3.32	0.001916	± 2.5	PASS

		VN	30	-0.48	-0.000277	± 2.5	PASS
		VN	40	-1.97	-0.001137	± 2.5	PASS
		VN	50	1.16	0.000670	± 2.5	PASS
	HCH	VN	-30	1.35	0.000773	± 2.5	PASS
		VN	-20	3.91	0.002237	± 2.5	PASS
		VN	-10	-1.21	-0.000692	± 2.5	PASS
		VN	0	2.27	0.001299	± 2.5	PASS
		VN	10	-1.39	-0.000795	± 2.5	PASS
		VN	20	-1.28	-0.000732	± 2.5	PASS
		VN	30	-0.59	-0.000338	± 2.5	PASS
		VN	40	0.9	0.000515	± 2.5	PASS
		VN	50	0.94	0.000538	± 2.5	PASS
QPSK	LCH	VN	-30	4.29	0.002476	± 2.5	PASS
		VN	-20	2.8	0.001616	± 2.5	PASS
		VN	-10	1.83	0.001056	± 2.5	PASS
		VN	0	3	0.001732	± 2.5	PASS
		VN	10	4.08	0.002355	± 2.5	PASS
		VN	20	2.25	0.001299	± 2.5	PASS
		VN	30	1.9	0.001097	± 2.5	PASS
		VN	40	2.8	0.001616	± 2.5	PASS
		VN	50	1.79	0.001033	± 2.5	PASS
	MCH	VN	-30	1.95	0.001116	± 2.5	PASS
		VN	-20	0.95	0.000544	± 2.5	PASS
		VN	-10	-0.3	-0.000172	± 2.5	PASS
		VN	0	4.65	0.002661	± 2.5	PASS
		VN	10	-1.44	-0.000824	± 2.5	PASS
		VN	20	1.59	0.000910	± 2.5	PASS
		VN	30	3.27	0.001871	± 2.5	PASS
		VN	40	3.79	0.002169	± 2.5	PASS
		VN	50	0.49	0.000280	± 2.5	PASS
	HCH	VN	-30	3.03	0.001734	± 2.5	PASS
		VN	-20	0.5	0.000286	± 2.5	PASS
		VN	-10	0.87	0.000498	± 2.5	PASS
		VN	0	1.93	0.001104	± 2.5	PASS
		VN	10	1.86	0.001064	± 2.5	PASS
		VN	20	4.27	0.002443	± 2.5	PASS
		VN	30	2.11	0.001207	± 2.5	PASS
		VN	40	-1.21	-0.000692	± 2.5	PASS
		VN	50	0.65	0.000372	± 2.5	PASS

## Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	0.07	0.000041	± 2.5	PASS
		VN	TN	-1.73	-0.001006	± 2.5	PASS
		VH	TN	0.65	0.000378	± 2.5	PASS
	MCH	VL	TN	0.06	0.000035	± 2.5	PASS
		VN	TN	-1.38	-0.000797	± 2.5	PASS
		VH	TN	4.17	0.002407	± 2.5	PASS
	HCH	VL	TN	-0.92	-0.000527	± 2.5	PASS
		VN	TN	2.45	0.001404	± 2.5	PASS
		VH	TN	0.71	0.000407	± 2.5	PASS
16QAM	LCH	VL	TN	2.49	0.001448	± 2.5	PASS
		VN	TN	-0.96	-0.000558	± 2.5	PASS
		VH	TN	2.24	0.001302	± 2.5	PASS
	MCH	VL	TN	-1.68	-0.000970	± 2.5	PASS
		VN	TN	4.9	0.002828	± 2.5	PASS
		VH	TN	-0.3	-0.000173	± 2.5	PASS
	HCH	VL	TN	1.52	0.000871	± 2.5	PASS
		VN	TN	-1.96	-0.001123	± 2.5	PASS
		VH	TN	2.93	0.001679	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.95	0.002878	± 2.5	PASS
		VN	-20	2.39	0.001390	± 2.5	PASS
		VN	-10	2.19	0.001273	± 2.5	PASS
		VN	0	1.96	0.001140	± 2.5	PASS
		VN	10	3.34	0.001942	± 2.5	PASS
		VN	20	-1.96	-0.001140	± 2.5	PASS
		VN	30	2.45	0.001424	± 2.5	PASS
		VN	40	-1.14	-0.000663	± 2.5	PASS
		VN	50	1.96	0.001140	± 2.5	PASS
	MCH	VN	-30	-1.99	-0.001149	± 2.5	PASS
		VN	-20	-0.29	-0.000167	± 2.5	PASS
		VN	-10	-0.89	-0.000514	± 2.5	PASS
		VN	0	4.74	0.002736	± 2.5	PASS
		VN	10	0.24	0.000139	± 2.5	PASS
		VN	20	-1.87	-0.001079	± 2.5	PASS

		VN	30	-1.07	-0.000618	± 2.5	PASS
		VN	40	3.28	0.001893	± 2.5	PASS
		VN	50	-0.85	-0.000491	± 2.5	PASS
	HCH	VN	-30	1.32	0.000756	± 2.5	PASS
		VN	-20	4.86	0.002785	± 2.5	PASS
		VN	-10	1.61	0.000923	± 2.5	PASS
		VN	0	-1.78	-0.001020	± 2.5	PASS
		VN	10	-1.68	-0.000963	± 2.5	PASS
		VN	20	3.71	0.002126	± 2.5	PASS
		VN	30	0.23	0.000132	± 2.5	PASS
		VN	40	0.49	0.000281	± 2.5	PASS
		VN	50	1.96	0.001123	± 2.5	PASS
QPSK	LCH	VN	-30	4.73	0.002730	± 2.5	PASS
		VN	-20	-1.97	-0.001137	± 2.5	PASS
		VN	-10	2.43	0.001403	± 2.5	PASS
		VN	0	1.67	0.000964	± 2.5	PASS
		VN	10	-1.31	-0.000756	± 2.5	PASS
		VN	20	3.63	0.002095	± 2.5	PASS
		VN	30	1.61	0.000929	± 2.5	PASS
		VN	40	2.06	0.001189	± 2.5	PASS
		VN	50	4.03	0.002326	± 2.5	PASS
	MCH	VN	-30	4.52	0.002590	± 2.5	PASS
		VN	-20	-0.93	-0.000533	± 2.5	PASS
		VN	-10	2.98	0.001708	± 2.5	PASS
		VN	0	0.24	0.000138	± 2.5	PASS
		VN	10	2.33	0.001335	± 2.5	PASS
		VN	20	2.67	0.001530	± 2.5	PASS
		VN	30	4.28	0.002453	± 2.5	PASS
		VN	40	3.78	0.002166	± 2.5	PASS
		VN	50	4.8	0.002751	± 2.5	PASS
	HCH	VN	-30	-1.36	-0.000779	± 2.5	PASS
		VN	-20	-0.24	-0.000138	± 2.5	PASS
		VN	-10	4.95	0.002837	± 2.5	PASS
		VN	0	3.91	0.002241	± 2.5	PASS
		VN	10	-0.76	-0.000436	± 2.5	PASS
		VN	20	4.41	0.002527	± 2.5	PASS
		VN	30	1.6	0.000917	± 2.5	PASS
		VN	40	-0.8	-0.000458	± 2.5	PASS
		VN	50	4.72	0.002705	± 2.5	PASS