

Band5_3MHz_16QAM_20415_1RB#0



Band5_3MHz_16QAM_20415_1RB#0



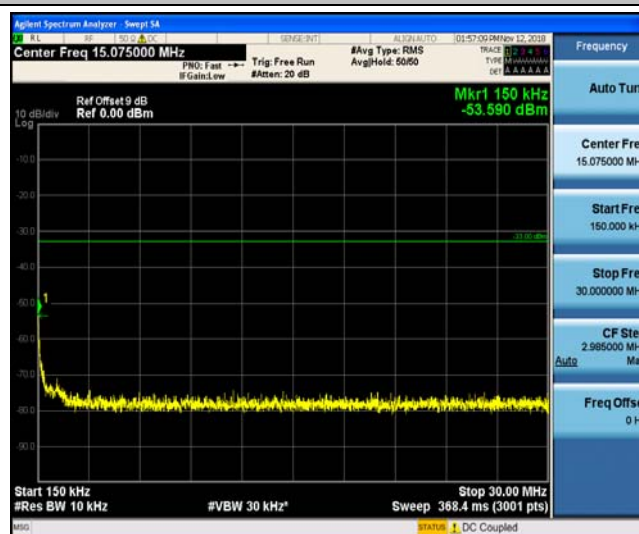
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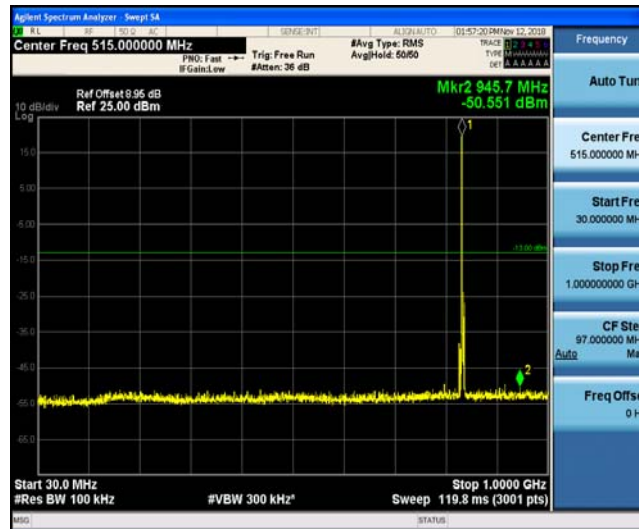
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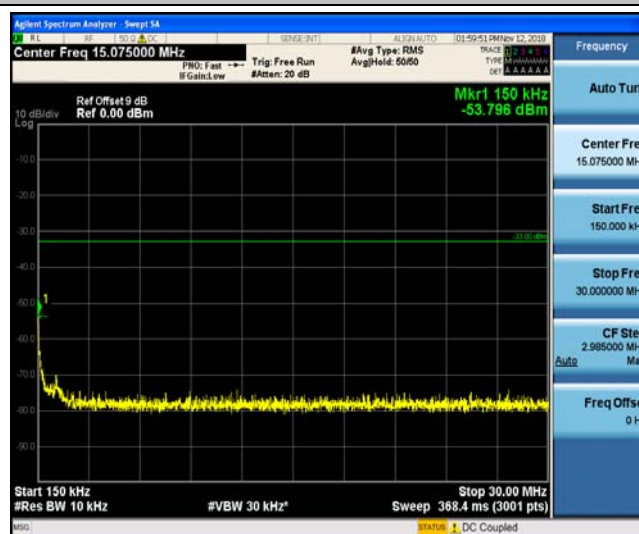
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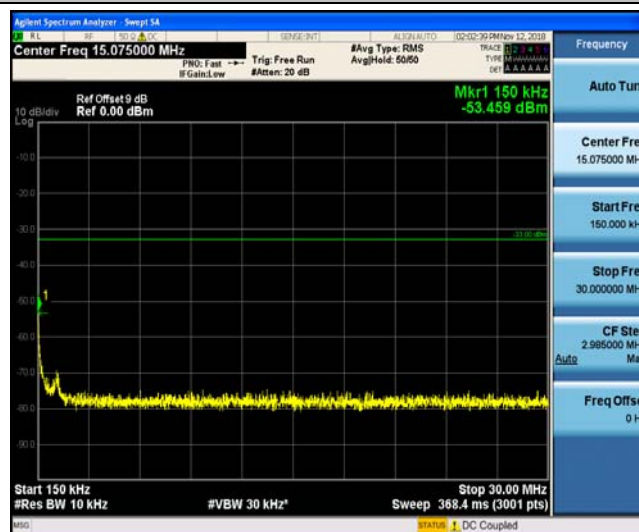
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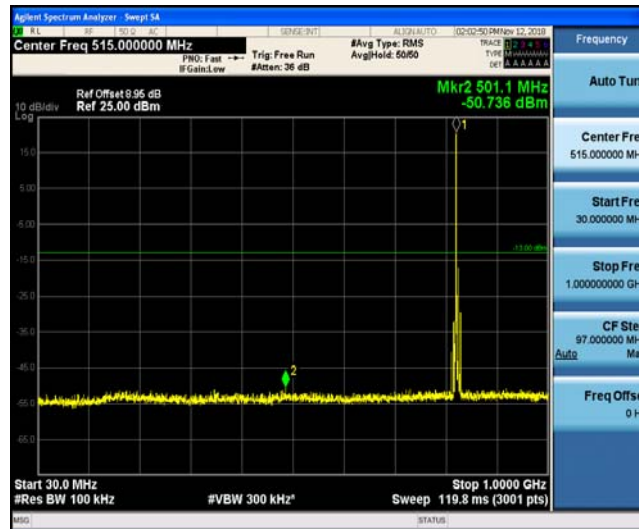
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Band5_5MHz_QPSK_20425_1RB#0



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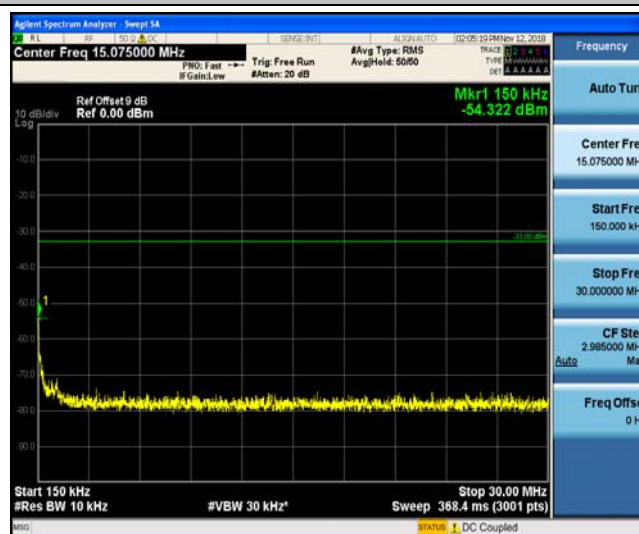
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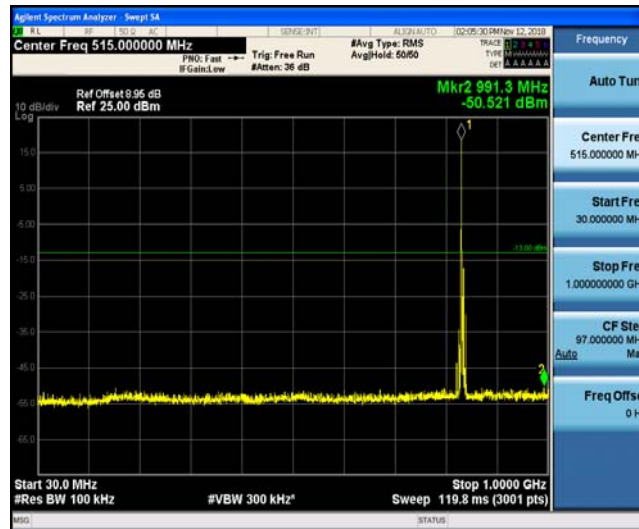
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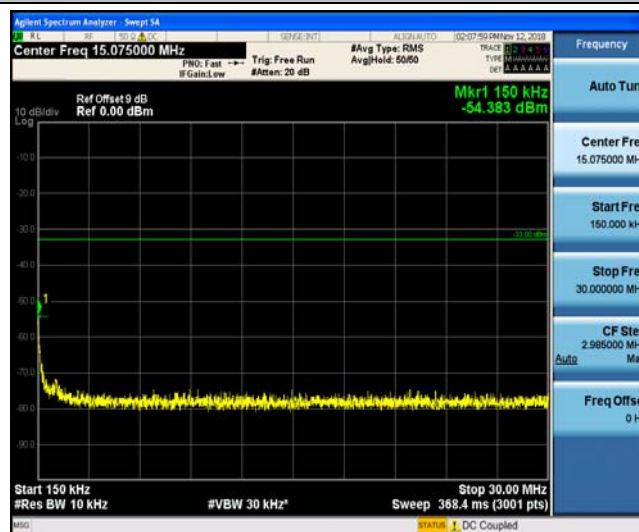
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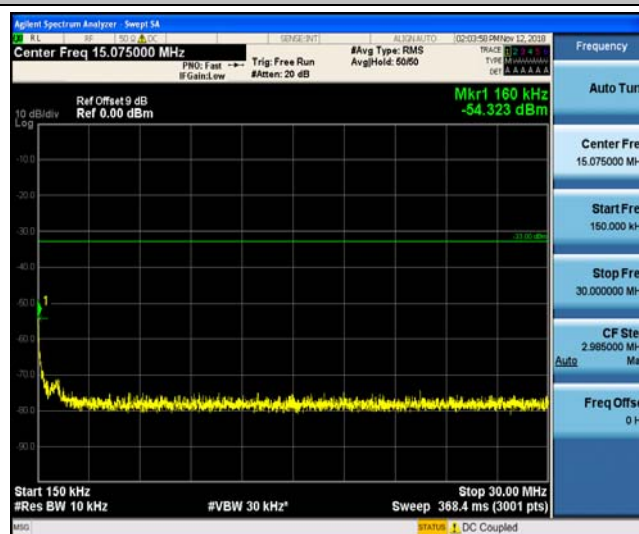
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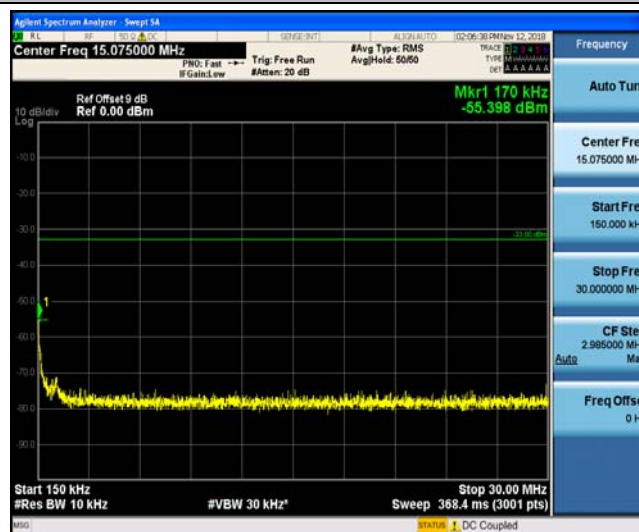
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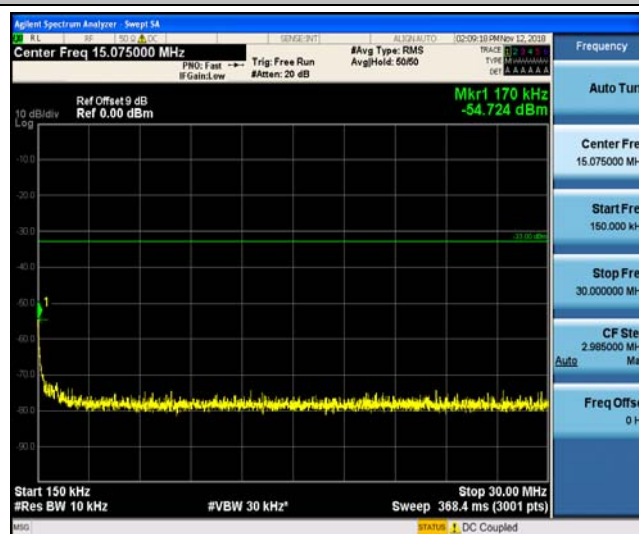
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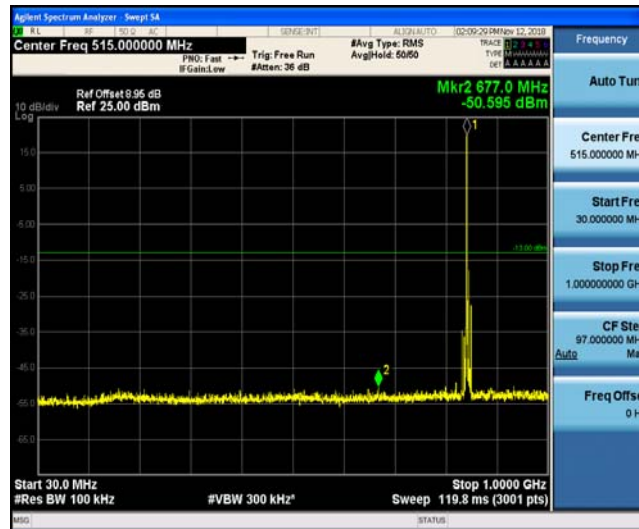
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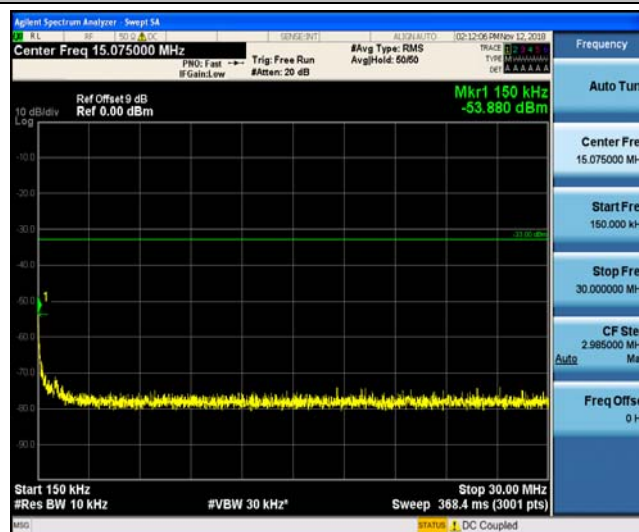
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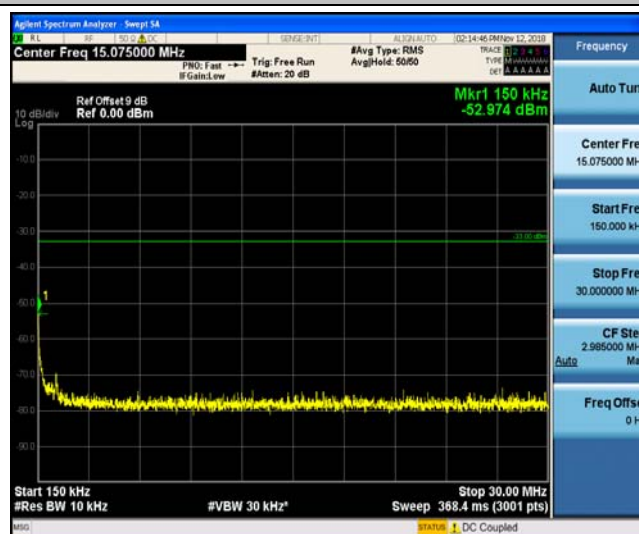
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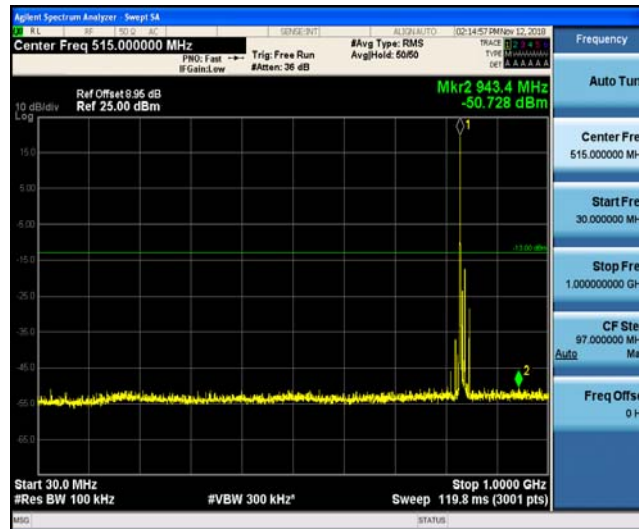
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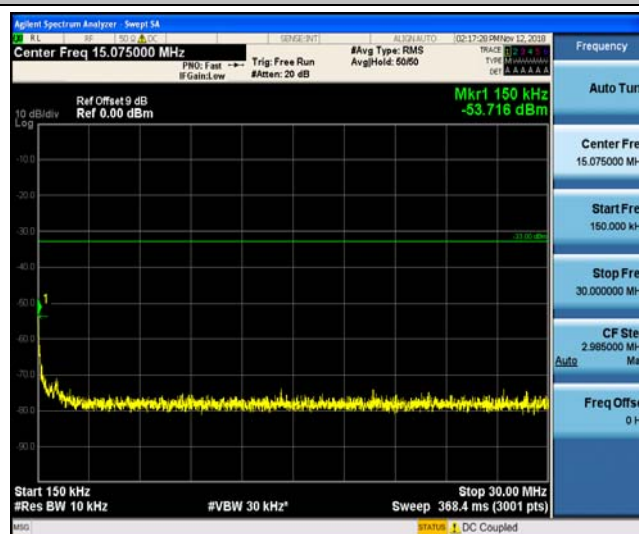
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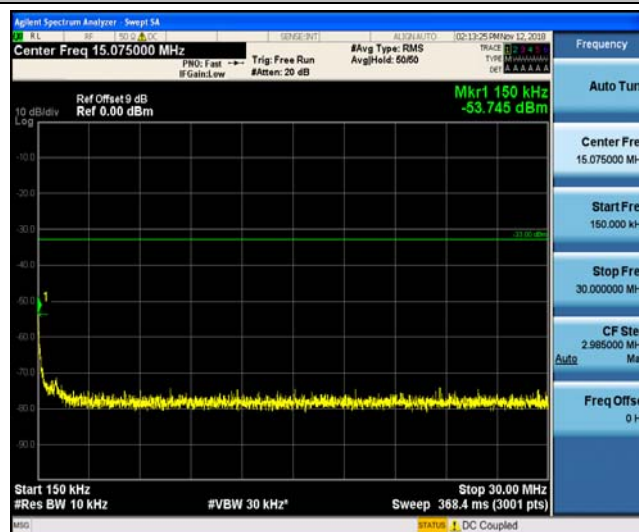
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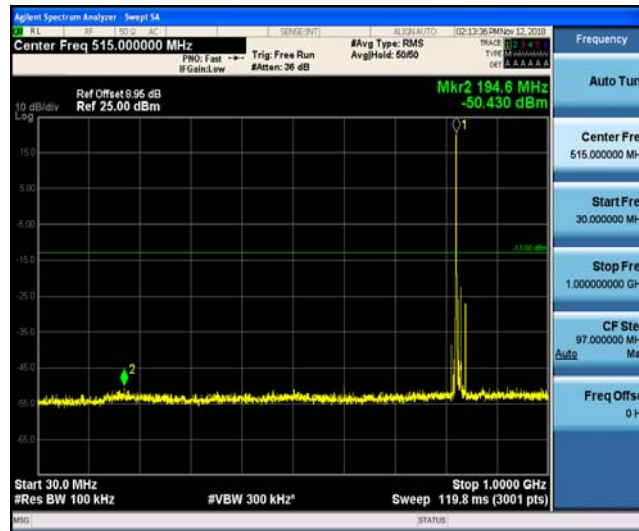
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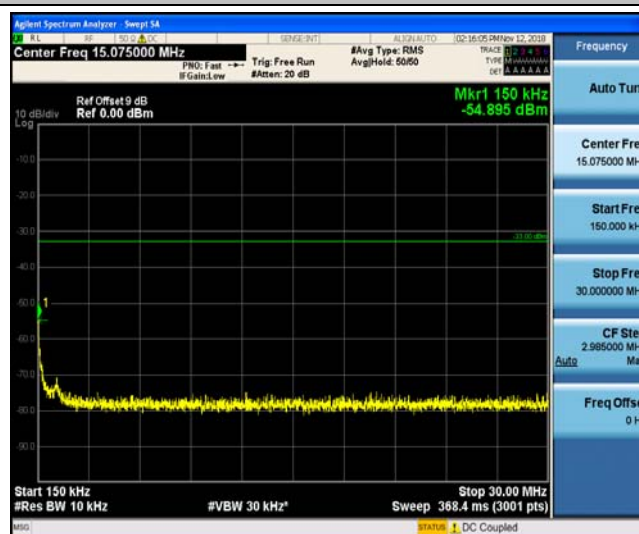
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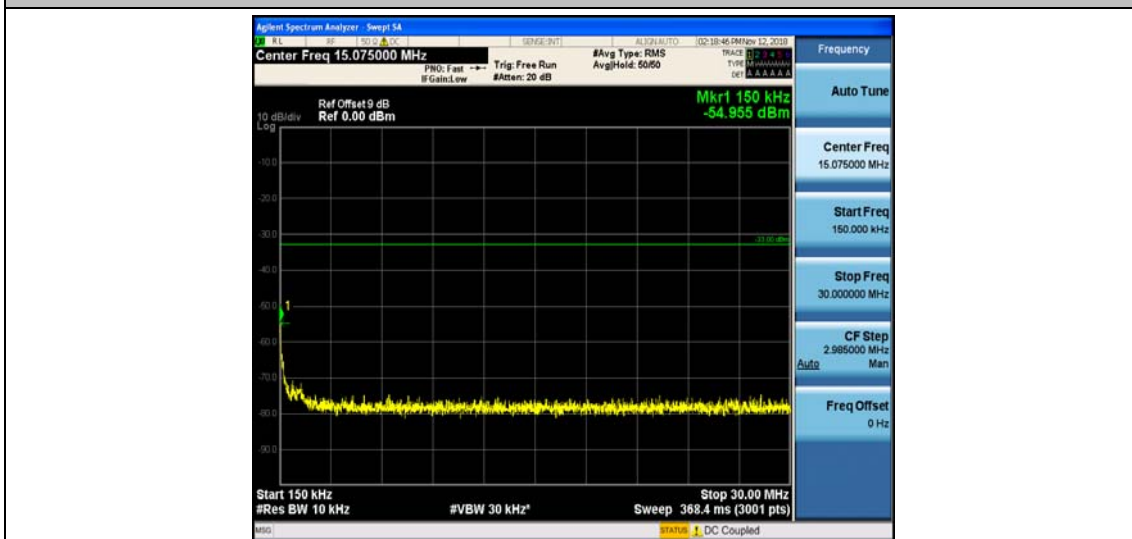
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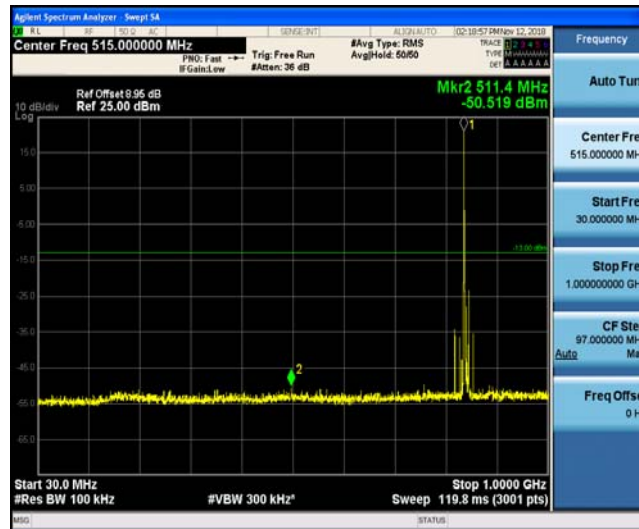
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Band5_10MHz_16QAM_20600_1RB#0



Band5_10MHz_16QAM_20600_1RB#0



Band5_10MHz_16QAM_20600_1RB#0



Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.23	0.005129	± 2.5	PASS
		VN	TN	4.12	0.004996	± 2.5	PASS
		VH	TN	2.19	0.002656	± 2.5	PASS
	MCH	VL	TN	-0.96	-0.001148	± 2.5	PASS
		VN	TN	3.69	0.004411	± 2.5	PASS
		VH	TN	0.08	0.000096	± 2.5	PASS
	HCH	VL	TN	1.24	0.001462	± 2.5	PASS
		VN	TN	-1.73	-0.002039	± 2.5	PASS
		VH	TN	-0.81	-0.000955	± 2.5	PASS
16QAM	LCH	VL	TN	4.63	0.005614	± 2.5	PASS
		VN	TN	-1.86	-0.002255	± 2.5	PASS
		VH	TN	-1.7	-0.002061	± 2.5	PASS
	MCH	VL	TN	-1.45	-0.001733	± 2.5	PASS
		VN	TN	1.9	0.002271	± 2.5	PASS
		VH	TN	-0.23	-0.000275	± 2.5	PASS
	HCH	VL	TN	0.93	0.001096	± 2.5	PASS
		VN	TN	-0.04	-0.000047	± 2.5	PASS
		VH	TN	-1.97	-0.002322	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.14	0.003807	± 2.5	PASS
		VN	-20	0.5	0.000606	± 2.5	PASS
		VN	-10	-1.08	-0.001310	± 2.5	PASS
		VN	0	-1.26	-0.001528	± 2.5	PASS
		VN	10	4.48	0.005432	± 2.5	PASS
		VN	20	-0.54	-0.000655	± 2.5	PASS
		VN	30	3.71	0.004499	± 2.5	PASS
		VN	40	0.69	0.000837	± 2.5	PASS
		VN	50	3.01	0.003650	± 2.5	PASS
	MCH	VN	-30	1.4	0.001674	± 2.5	PASS
		VN	-20	-0.3	-0.000359	± 2.5	PASS
		VN	-10	-1.7	-0.002032	± 2.5	PASS

		VN	0	-1.33	-0.001590	± 2.5	PASS
		VN	10	-0.81	-0.000968	± 2.5	PASS
		VN	20	4.7	0.005619	± 2.5	PASS
		VN	30	1.96	0.002343	± 2.5	PASS
		VN	40	1.92	0.002295	± 2.5	PASS
		VN	50	2.82	0.003371	± 2.5	PASS
	HCH	VN	-30	1.25	0.001474	± 2.5	PASS
		VN	-20	-0.71	-0.000837	± 2.5	PASS
		VN	-10	-1.67	-0.001969	± 2.5	PASS
		VN	0	-0.5	-0.000589	± 2.5	PASS
		VN	10	3.35	0.003949	± 2.5	PASS
		VN	20	0.28	0.000330	± 2.5	PASS
		VN	30	1.79	0.002110	± 2.5	PASS
		VN	40	3.5	0.004126	± 2.5	PASS
		VN	50	2.8	0.003301	± 2.5	PASS
16QAM	LCH	VN	-30	2.91	0.003529	± 2.5	PASS
		VN	-20	2.42	0.002934	± 2.5	PASS
		VN	-10	3.51	0.004256	± 2.5	PASS
		VN	0	-0.6	-0.000728	± 2.5	PASS
		VN	10	-1.53	-0.001855	± 2.5	PASS
		VN	20	2.52	0.003056	± 2.5	PASS
		VN	30	1.82	0.002207	± 2.5	PASS
		VN	40	-1.46	-0.001770	± 2.5	PASS
		VN	50	1.97	0.002389	± 2.5	PASS
	MCH	VN	-30	1.02	0.001202	± 2.5	PASS
		VN	-20	3.46	0.004079	± 2.5	PASS
		VN	-10	2.33	0.002747	± 2.5	PASS
		VN	0	1.52	0.001792	± 2.5	PASS
		VN	10	1.74	0.002051	± 2.5	PASS
		VN	20	0.85	0.001002	± 2.5	PASS
		VN	30	-1.55	-0.001827	± 2.5	PASS
		VN	40	-1.78	-0.002098	± 2.5	PASS
		VN	50	2.49	0.002935	± 2.5	PASS
	HCH	VN	-30	0.49	0.000578	± 2.5	PASS
		VN	-20	0.77	0.000908	± 2.5	PASS
		VN	-10	0.84	0.000990	± 2.5	PASS
		VN	0	2.12	0.002499	± 2.5	PASS
		VN	10	1.29	0.001521	± 2.5	PASS
		VN	20	3.51	0.004138	± 2.5	PASS
		VN	30	4.7	0.005540	± 2.5	PASS
		VN	40	-1.18	-0.001391	± 2.5	PASS

		VN	50	-0.46	-0.000542	± 2.5	PASS
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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	3.22	0.003901	± 2.5	PASS
		VN	TN	-0.13	-0.000157	± 2.5	PASS
		VH	TN	-0.61	-0.000739	± 2.5	PASS
	MCH	VL	TN	2.95	0.003527	± 2.5	PASS
		VN	TN	1.79	0.002140	± 2.5	PASS
		VH	TN	0.51	0.000610	± 2.5	PASS
	HCH	VL	TN	-0.45	-0.000531	± 2.5	PASS
		VN	TN	-0.78	-0.000920	± 2.5	PASS
		VH	TN	1.51	0.001782	± 2.5	PASS
16QAM	LCH	VL	TN	3.46	0.004191	± 2.5	PASS
		VN	TN	0.18	0.000218	± 2.5	PASS
		VH	TN	-1.02	-0.001236	± 2.5	PASS
	MCH	VL	TN	-0.19	-0.000227	± 2.5	PASS
		VN	TN	4.93	0.005894	± 2.5	PASS
		VH	TN	3.38	0.004041	± 2.5	PASS
	HCH	VL	TN	4.8	0.005664	± 2.5	PASS
		VN	TN	4.53	0.005345	± 2.5	PASS
		VH	TN	0.03	0.000035	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.12	0.001355	± 2.5	PASS
		VN	-20	-1.35	-0.001633	± 2.5	PASS
		VN	-10	1.44	0.001742	± 2.5	PASS
		VN	0	-1.76	-0.002129	± 2.5	PASS
		VN	10	1.9	0.002299	± 2.5	PASS
		VN	20	1.76	0.002129	± 2.5	PASS
		VN	30	4.08	0.004936	± 2.5	PASS
		VN	40	1.08	0.001307	± 2.5	PASS
		VN	50	-1.74	-0.002105	± 2.5	PASS
	MCH	VN	-30	-1.31	-0.001566	± 2.5	PASS
		VN	-20	-0.52	-0.000622	± 2.5	PASS
		VN	-10	4.95	0.005918	± 2.5	PASS
		VN	0	4.85	0.005798	± 2.5	PASS
		VN	10	-0.92	-0.001100	± 2.5	PASS

		VN	20	0.12	0.000143	± 2.5	PASS
		VN	30	-1.24	-0.001482	± 2.5	PASS
		VN	40	2.47	0.002953	± 2.5	PASS
		VN	50	-0.97	-0.001160	± 2.5	PASS
	HCH	VN	-30	-1.02	-0.001205	± 2.5	PASS
		VN	-20	0.31	0.000366	± 2.5	PASS
		VN	-10	4.2	0.004962	± 2.5	PASS
		VN	0	-1.43	-0.001689	± 2.5	PASS
		VN	10	2.57	0.003036	± 2.5	PASS
		VN	20	2.65	0.003131	± 2.5	PASS
		VN	30	1.19	0.001406	± 2.5	PASS
		VN	40	3.38	0.003993	± 2.5	PASS
		VN	50	3.87	0.004572	± 2.5	PASS
		VN	-30	3.26	0.003897	± 2.5	PASS
		VN	-20	-0.11	-0.000132	± 2.5	PASS
		VN	-10	4.36	0.005212	± 2.5	PASS
		VN	0	0.02	0.000024	± 2.5	PASS
		VN	10	0.44	0.000526	± 2.5	PASS
16QAM	LCH	VN	20	-0.13	-0.000155	± 2.5	PASS
		VN	30	3.22	0.003849	± 2.5	PASS
		VN	40	4.58	0.005475	± 2.5	PASS
		VN	50	3.36	0.004017	± 2.5	PASS
	MCH	VN	-30	-1.57	-0.001855	± 2.5	PASS
		VN	-20	-1.13	-0.001335	± 2.5	PASS
		VN	-10	-0.44	-0.000520	± 2.5	PASS
		VN	0	3.85	0.004548	± 2.5	PASS
		VN	10	-0.17	-0.000201	± 2.5	PASS
		VN	20	3.62	0.004276	± 2.5	PASS
		VN	30	3.47	0.004099	± 2.5	PASS
		VN	40	0.37	0.000437	± 2.5	PASS
		VN	50	0.6	0.000709	± 2.5	PASS
	HCH	VN	-30	4.24	0.005009	± 2.5	PASS
		VN	-20	-1.77	-0.002091	± 2.5	PASS
		VN	-10	-0.41	-0.000484	± 2.5	PASS
		VN	0	-1.11	-0.001311	± 2.5	PASS
		VN	10	2.74	0.003237	± 2.5	PASS
		VN	20	3.34	0.003946	± 2.5	PASS
		VN	30	4.69	0.005540	± 2.5	PASS
		VN	40	-1.31	-0.001548	± 2.5	PASS
		VN	50	-0.32	-0.000378	± 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	4.16	0.005033	± 2.5	PASS
		VN	TN	3.97	0.004803	± 2.5	PASS
		VH	TN	-1.9	-0.002299	± 2.5	PASS
	MCH	VL	TN	4.4	0.005260	± 2.5	PASS
		VN	TN	-0.17	-0.000203	± 2.5	PASS
		VH	TN	1.16	0.001387	± 2.5	PASS
	HCH	VL	TN	-0.31	-0.000366	± 2.5	PASS
		VN	TN	2.62	0.003095	± 2.5	PASS
		VH	TN	-1.28	-0.001512	± 2.5	PASS
16QAM	LCH	VL	TN	2.26	0.002734	± 2.5	PASS
		VN	TN	4.72	0.005711	± 2.5	PASS
		VH	TN	-0.95	-0.001149	± 2.5	PASS
	MCH	VL	TN	4.5	0.005380	± 2.5	PASS
		VN	TN	2.09	0.002499	± 2.5	PASS
		VH	TN	3.87	0.004626	± 2.5	PASS
	HCH	VL	TN	2.71	0.003201	± 2.5	PASS
		VN	TN	3.88	0.004584	± 2.5	PASS
		VH	TN	2.6	0.003071	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.28	-0.000339	± 2.5	PASS
		VN	-20	2.32	0.002807	± 2.5	PASS
		VN	-10	-1.22	-0.001476	± 2.5	PASS
		VN	0	0.11	0.000133	± 2.5	PASS
		VN	10	0.38	0.000460	± 2.5	PASS
		VN	20	2.87	0.003472	± 2.5	PASS
		VN	30	3.86	0.004670	± 2.5	PASS
		VN	40	0.53	0.000641	± 2.5	PASS
		VN	50	0.69	0.000835	± 2.5	PASS
	MCH	VN	-30	-1.73	-0.002068	± 2.5	PASS
		VN	-20	2.8	0.003347	± 2.5	PASS
		VN	-10	-0.47	-0.000562	± 2.5	PASS
		VN	0	3.46	0.004136	± 2.5	PASS
		VN	10	0.89	0.001064	± 2.5	PASS
		VN	20	2.44	0.002917	± 2.5	PASS
		VN	30	4.92	0.005882	± 2.5	PASS

		VN	40	0.53	0.000634	± 2.5	PASS
		VN	50	3.75	0.004483	± 2.5	PASS
	HCH	VN	-30	-0.19	-0.000224	± 2.5	PASS
		VN	-20	4.49	0.005304	± 2.5	PASS
		VN	-10	-1.82	-0.002150	± 2.5	PASS
		VN	0	-0.35	-0.000413	± 2.5	PASS
		VN	10	2.01	0.002374	± 2.5	PASS
		VN	20	-0.72	-0.000851	± 2.5	PASS
		VN	30	-1.65	-0.001949	± 2.5	PASS
		VN	40	3.21	0.003792	± 2.5	PASS
		VN	50	1.86	0.002197	± 2.5	PASS
16QAM	LCH	VN	-30	2.41	0.002881	± 2.5	PASS
		VN	-20	-0.5	-0.000598	± 2.5	PASS
		VN	-10	0.44	0.000526	± 2.5	PASS
		VN	0	2.01	0.002403	± 2.5	PASS
		VN	10	3.21	0.003837	± 2.5	PASS
		VN	20	-0.12	-0.000143	± 2.5	PASS
		VN	30	1.52	0.001817	± 2.5	PASS
		VN	40	-1.16	-0.001387	± 2.5	PASS
		VN	50	1.57	0.001877	± 2.5	PASS
	MCH	VN	-30	1.4	0.001654	± 2.5	PASS
		VN	-20	4.09	0.004832	± 2.5	PASS
		VN	-10	4.45	0.005257	± 2.5	PASS
		VN	0	1.28	0.001512	± 2.5	PASS
		VN	10	3.14	0.003709	± 2.5	PASS
		VN	20	3.19	0.003768	± 2.5	PASS
		VN	30	-0.39	-0.000461	± 2.5	PASS
		VN	40	4.25	0.005021	± 2.5	PASS
		VN	50	0.21	0.000248	± 2.5	PASS
	HCH	VN	-30	-1.57	-0.001855	± 2.5	PASS
		VN	-20	-1.32	-0.001559	± 2.5	PASS
		VN	-10	-0.92	-0.001087	± 2.5	PASS
		VN	0	-0.05	-0.000059	± 2.5	PASS
		VN	10	-1.35	-0.001595	± 2.5	PASS
		VN	20	3.03	0.003579	± 2.5	PASS
		VN	30	-0.56	-0.000662	± 2.5	PASS
		VN	40	0.71	0.000839	± 2.5	PASS
		VN	50	2.52	0.002977	± 2.5	PASS

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	-1.06	-0.001279	± 2.5	PASS
		VN	TN	1.75	0.002111	± 2.5	PASS
		VH	TN	2.88	0.003474	± 2.5	PASS
	MCH	VL	TN	-0.79	-0.000944	± 2.5	PASS
		VN	TN	0.14	0.000167	± 2.5	PASS
		VH	TN	-0.99	-0.001184	± 2.5	PASS
	HCH	VL	TN	3.64	0.004313	± 2.5	PASS
		VN	TN	1.08	0.001280	± 2.5	PASS
		VH	TN	1.23	0.001457	± 2.5	PASS
16QAM	LCH	VL	TN	3.53	0.004258	± 2.5	PASS
		VN	TN	0.08	0.000097	± 2.5	PASS
		VH	TN	-1.46	-0.001761	± 2.5	PASS
	MCH	VL	TN	-0.02	-0.000024	± 2.5	PASS
		VN	TN	3.31	0.003957	± 2.5	PASS
		VH	TN	-1.4	-0.001674	± 2.5	PASS
	HCH	VL	TN	0.04	0.000047	± 2.5	PASS
		VN	TN	1.76	0.002085	± 2.5	PASS
		VH	TN	2.11	0.002500	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	2.43	0.002931	± 2.5	PASS
		VN	-20	1.85	0.002232	± 2.5	PASS
		VN	-10	-1.15	-0.001387	± 2.5	PASS
		VN	0	0.03	0.000036	± 2.5	PASS
		VN	10	3.64	0.004391	± 2.5	PASS
		VN	20	2.58	0.003112	± 2.5	PASS
		VN	30	1.12	0.001351	± 2.5	PASS
		VN	40	0.93	0.001122	± 2.5	PASS
		VN	50	-0.74	-0.000893	± 2.5	PASS
	MCH	VN	-30	1.45	0.001733	± 2.5	PASS
		VN	-20	1.97	0.002355	± 2.5	PASS
		VN	-10	-1.48	-0.001769	± 2.5	PASS
		VN	0	2.59	0.003096	± 2.5	PASS
		VN	10	1.81	0.002164	± 2.5	PASS
		VN	20	-1.82	-0.002176	± 2.5	PASS
		VN	30	1.94	0.002319	± 2.5	PASS
		VN	40	-1.25	-0.001494	± 2.5	PASS
		VN	50	0.47	0.000562	± 2.5	PASS

	HCH	VN	-30	-0.98	-0.001161	± 2.5	PASS
		VN	-20	4.56	0.005403	± 2.5	PASS
		VN	-10	-1.85	-0.002192	± 2.5	PASS
		VN	0	4.54	0.005379	± 2.5	PASS
		VN	10	2.51	0.002974	± 2.5	PASS
		VN	20	2.15	0.002547	± 2.5	PASS
		VN	30	0.82	0.000972	± 2.5	PASS
		VN	40	3.88	0.004597	± 2.5	PASS
		VN	50	3.94	0.004668	± 2.5	PASS
QPSK	LCH	VN	-30	3.48	0.004160	± 2.5	PASS
		VN	-20	1.21	0.001447	± 2.5	PASS
		VN	-10	2.89	0.003455	± 2.5	PASS
		VN	0	-0.65	-0.000777	± 2.5	PASS
		VN	10	3.29	0.003933	± 2.5	PASS
		VN	20	1.33	0.001590	± 2.5	PASS
		VN	30	-1.86	-0.002224	± 2.5	PASS
		VN	40	2.68	0.003204	± 2.5	PASS
		VN	50	0.81	0.000968	± 2.5	PASS
	MCH	VN	-30	-1.74	-0.002062	± 2.5	PASS
		VN	-20	3.85	0.004562	± 2.5	PASS
		VN	-10	-1.97	-0.002334	± 2.5	PASS
		VN	0	-0.62	-0.000735	± 2.5	PASS
		VN	10	-0.6	-0.000711	± 2.5	PASS
		VN	20	3.61	0.004277	± 2.5	PASS
		VN	30	0.87	0.001031	± 2.5	PASS
		VN	40	0.82	0.000972	± 2.5	PASS
		VN	50	-0.85	-0.001007	± 2.5	PASS
	HCH	VN	-30	-1.31	-0.001552	± 2.5	PASS
		VN	-20	0.75	0.000889	± 2.5	PASS
		VN	-10	1.05	0.001244	± 2.5	PASS
		VN	0	-0.45	-0.000533	± 2.5	PASS
		VN	10	-0.66	-0.000782	± 2.5	PASS
		VN	20	-1.98	-0.002346	± 2.5	PASS
		VN	30	3.78	0.004479	± 2.5	PASS
		VN	40	2.9	0.003436	± 2.5	PASS
		VN	50	2.41	0.002855	± 2.5	PASS