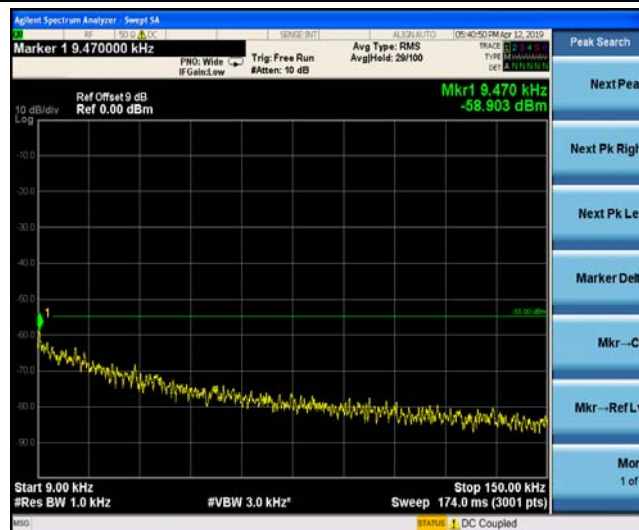
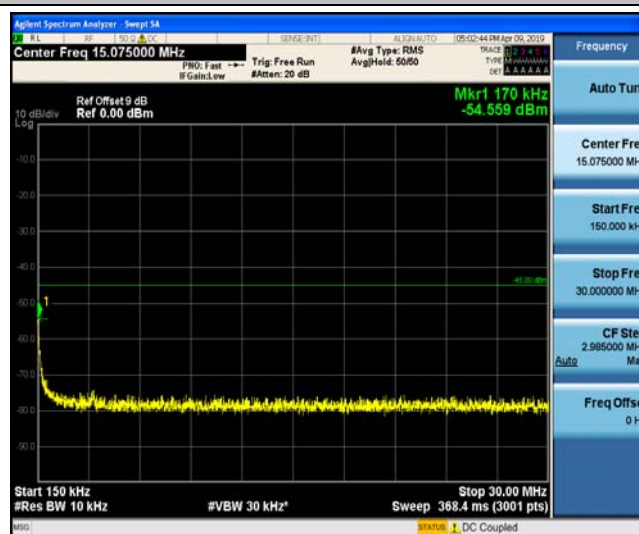




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Band7_15MHz_QPSK_21100_1RB#0



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Band7_15MHz_QPSK_21100_1RB#0



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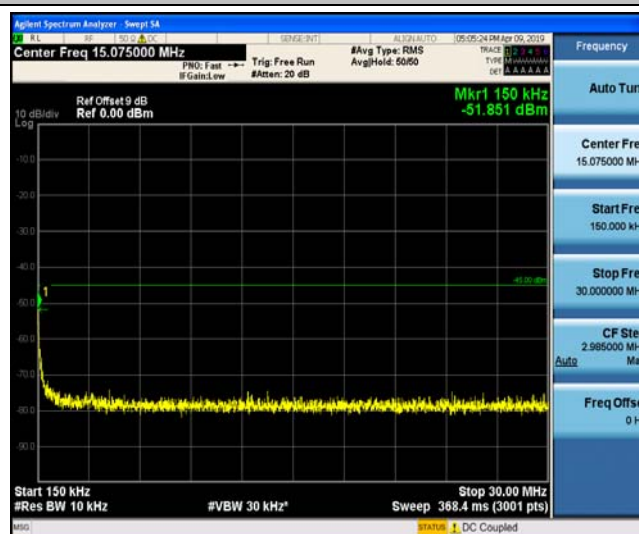
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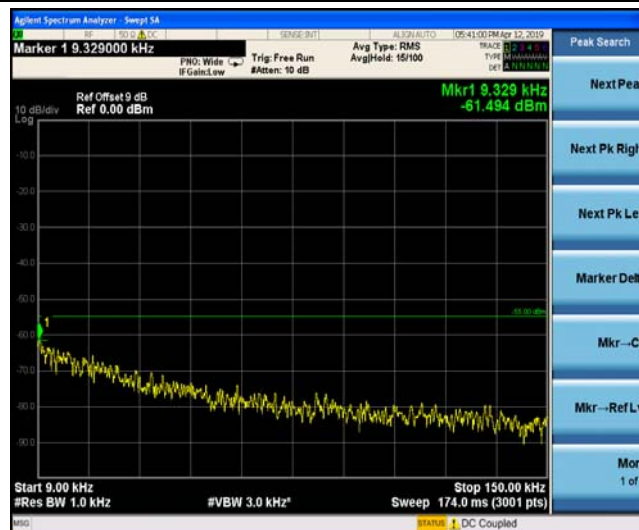
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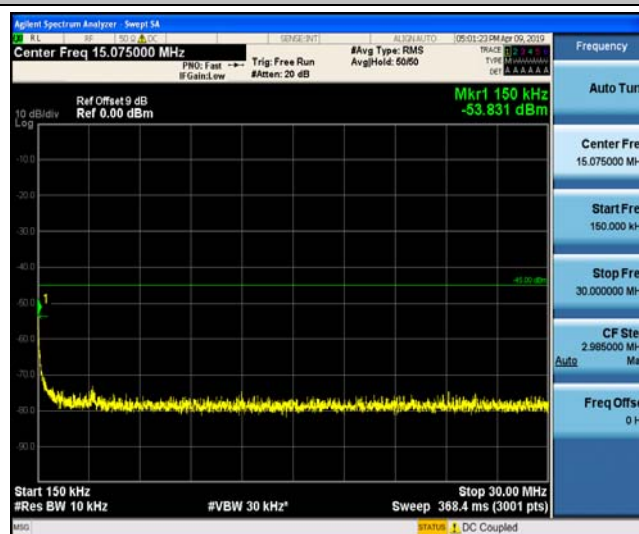
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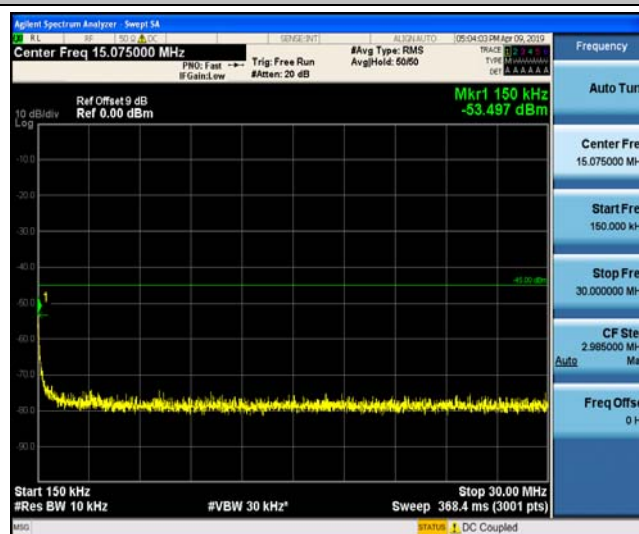
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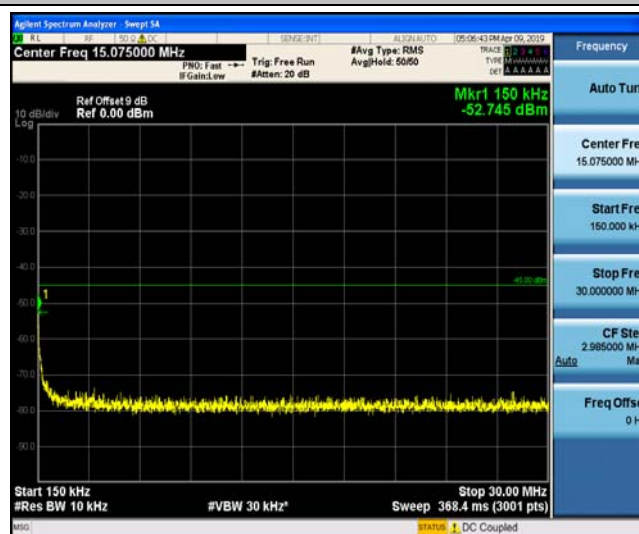
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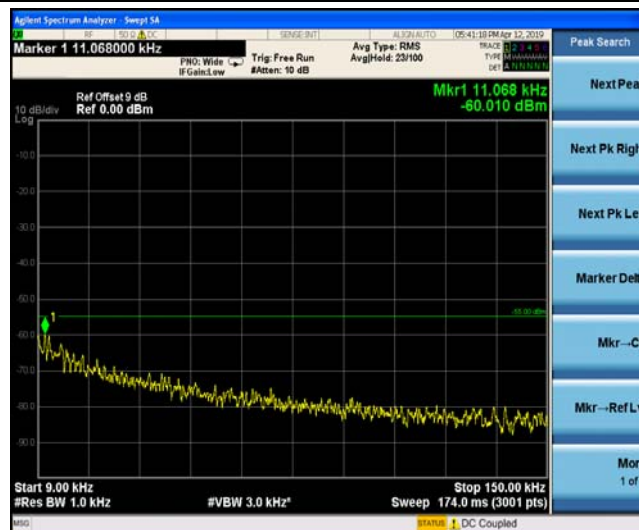
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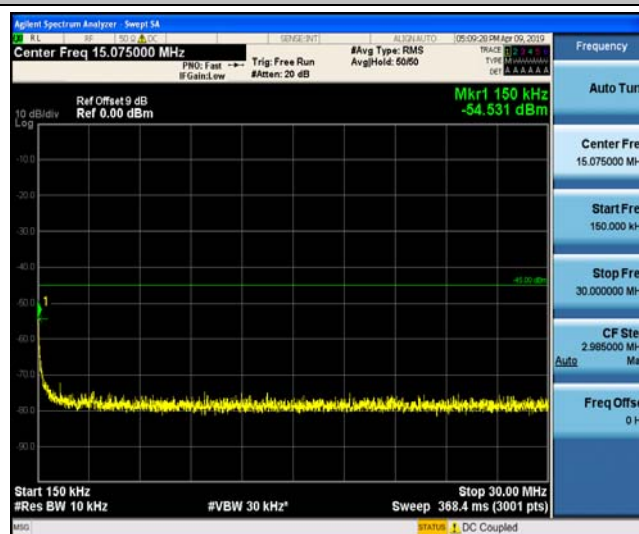
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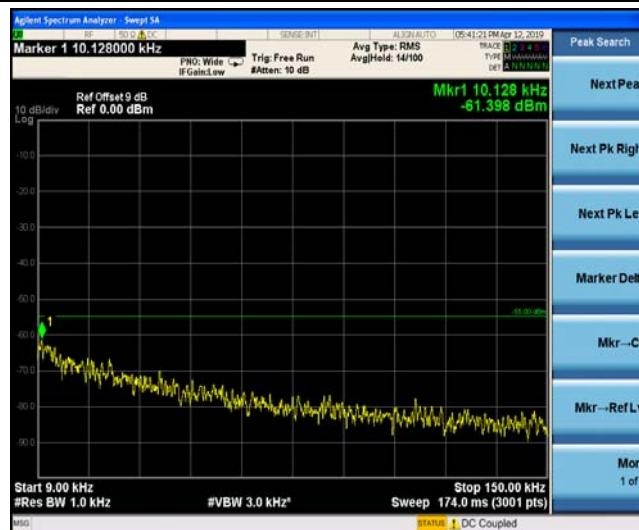
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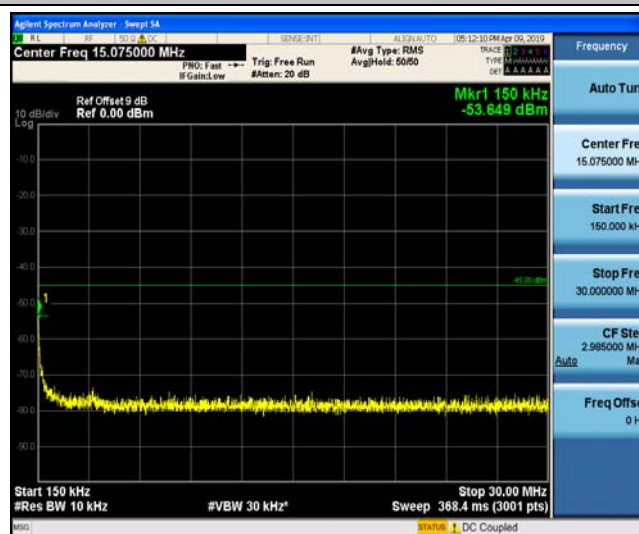
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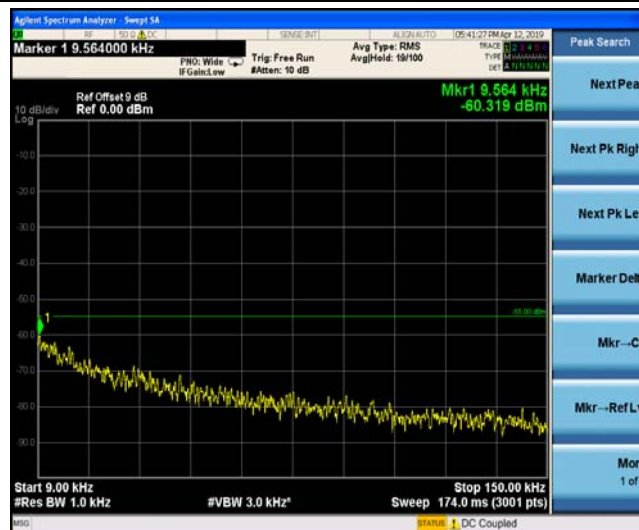
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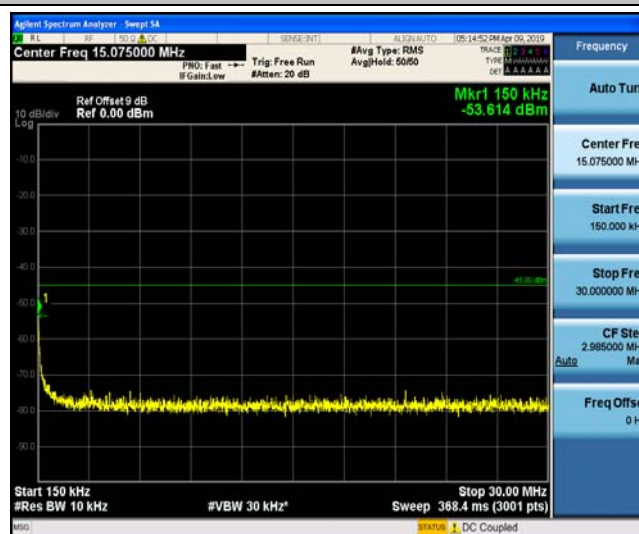
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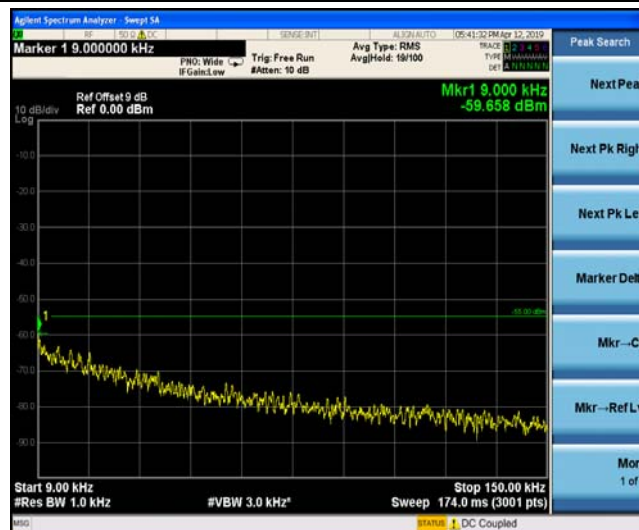
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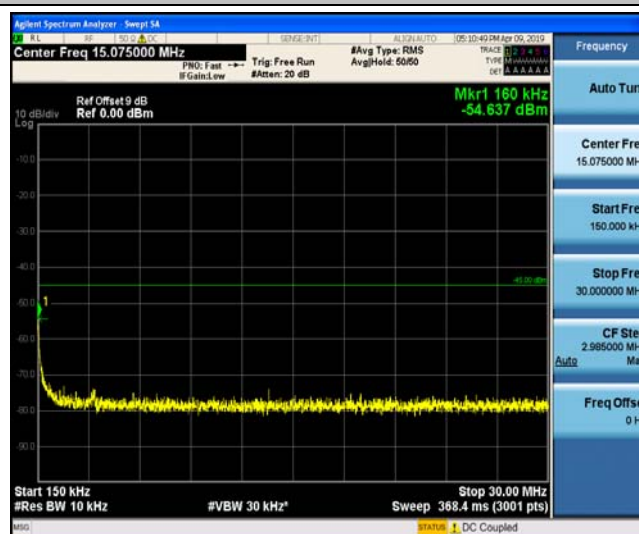
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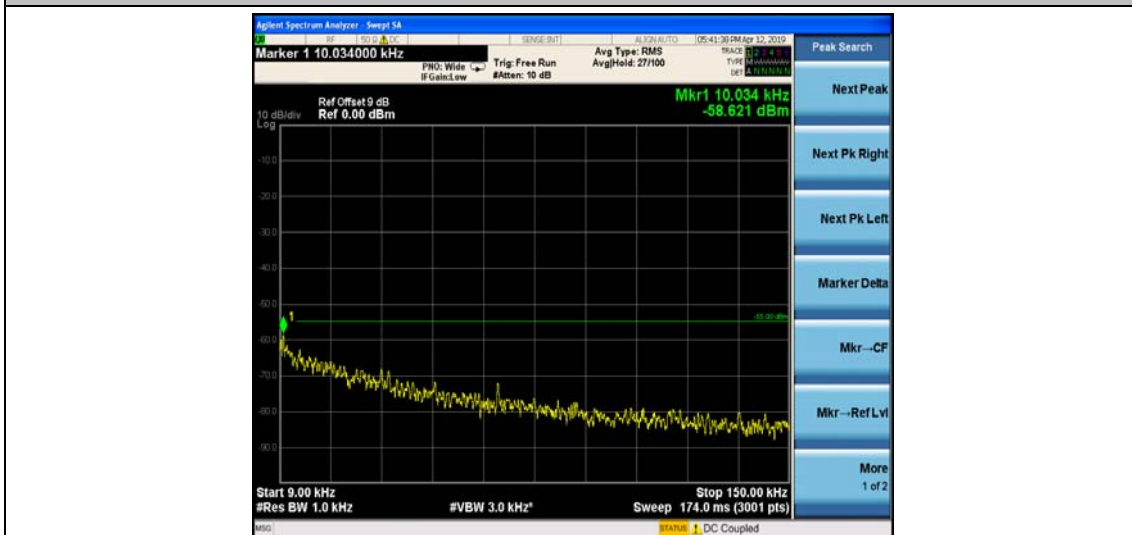
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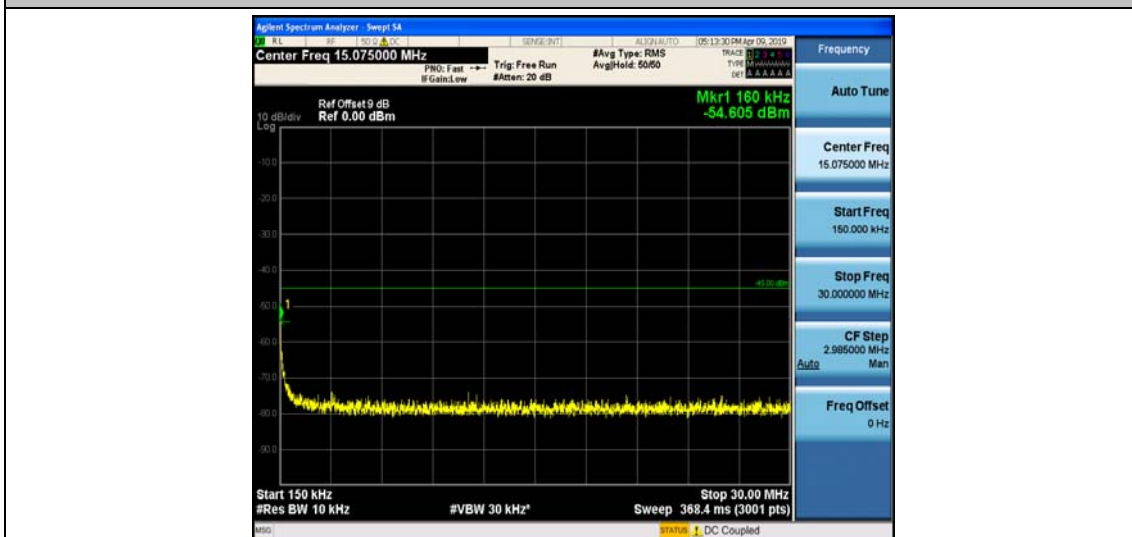
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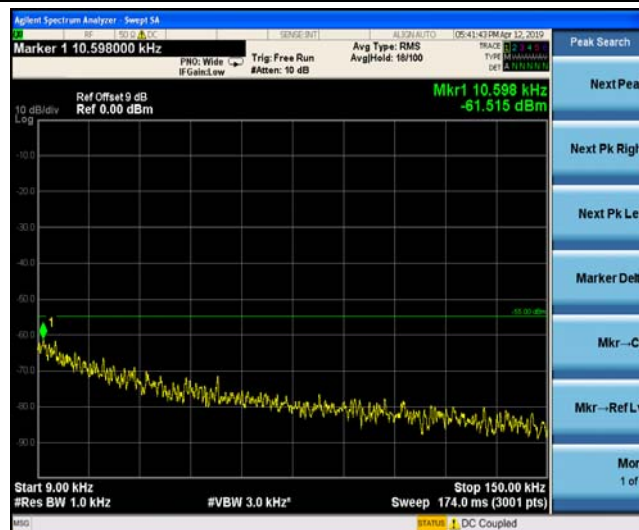
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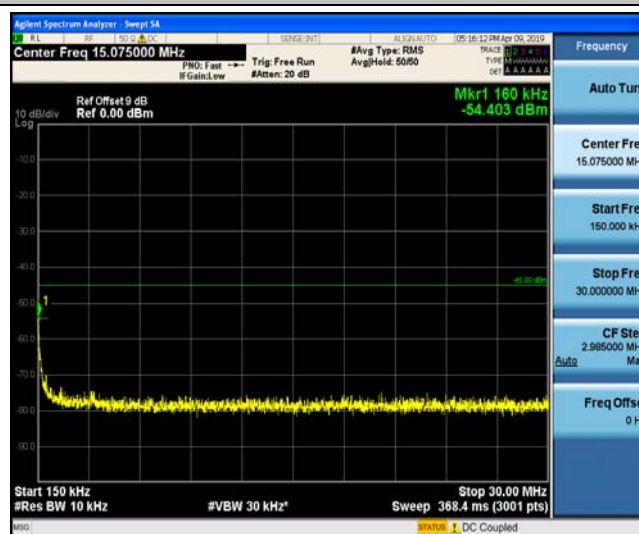
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Band7_20MHz_16QAM_21350_1RB#0



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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



Appendix F: Frequency Stability

Test Result

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	-0.86	-0.000344	± 2.5	PASS
		VN	TN	1.73	0.000691	± 2.5	PASS
		VH	TN	2.2	0.000879	± 2.5	PASS
	MCH	VL	TN	0.7	0.000276	± 2.5	PASS
		VN	TN	1.72	0.000679	± 2.5	PASS
		VH	TN	1.1	0.000434	± 2.5	PASS
	HCH	VL	TN	2.14	0.000833	± 2.5	PASS
		VN	TN	0.85	0.000331	± 2.5	PASS
		VH	TN	-1.38	-0.000537	± 2.5	PASS
16QAM	LCH	VL	TN	4.49	0.001794	± 2.5	PASS
		VN	TN	1.41	0.000563	± 2.5	PASS
		VH	TN	1.75	0.000699	± 2.5	PASS
	MCH	VL	TN	-1.49	-0.000588	± 2.5	PASS
		VN	TN	-0.55	-0.000217	± 2.5	PASS
		VH	TN	2.55	0.001006	± 2.5	PASS
	HCH	VL	TN	1.08	0.000421	± 2.5	PASS
		VN	TN	0.74	0.000288	± 2.5	PASS
		VH	TN	3.89	0.001515	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.99	0.001994	± 2.5	PASS
		VN	-20	1.72	0.000687	± 2.5	PASS
		VN	-10	1.59	0.000635	± 2.5	PASS
		VN	0	4.6	0.001838	± 2.5	PASS
		VN	10	-1.64	-0.000655	± 2.5	PASS
		VN	20	2.19	0.000875	± 2.5	PASS
		VN	30	4.28	0.001710	± 2.5	PASS
		VN	40	5	0.001998	± 2.5	PASS
		VN	50	1.93	0.000771	± 2.5	PASS
	MCH	VN	-30	4.05	0.001598	± 2.5	PASS

		VN	-20	3.71	0.001464	± 2.5	PASS
		VN	-10	-1.46	-0.000576	± 2.5	PASS
		VN	0	4.04	0.001594	± 2.5	PASS
		VN	10	2.49	0.000982	± 2.5	PASS
		VN	20	-0.29	-0.000114	± 2.5	PASS
		VN	30	1.6	0.000631	± 2.5	PASS
		VN	40	4.57	0.001803	± 2.5	PASS
		VN	50	1.99	0.000785	± 2.5	PASS
	HCH	VN	-30	1.7	0.000662	± 2.5	PASS
		VN	-20	1.2	0.000467	± 2.5	PASS
		VN	-10	-0.4	-0.000156	± 2.5	PASS
		VN	0	1.03	0.000401	± 2.5	PASS
		VN	10	0.03	0.000012	± 2.5	PASS
		VN	20	4.83	0.001881	± 2.5	PASS
		VN	30	0.4	0.000156	± 2.5	PASS
		VN	40	1.34	0.000522	± 2.5	PASS
16QAM	LCH	VN	50	2.58	0.001005	± 2.5	PASS
		VN	-30	4.65	0.001858	± 2.5	PASS
		VN	-20	-0.15	-0.000060	± 2.5	PASS
		VN	-10	3.27	0.001307	± 2.5	PASS
		VN	0	1	0.000400	± 2.5	PASS
		VN	10	-1.06	-0.000424	± 2.5	PASS
		VN	20	0.6	0.000240	± 2.5	PASS
		VN	30	1.34	0.000535	± 2.5	PASS
		VN	40	3.02	0.001207	± 2.5	PASS
	MCH	VN	50	3.69	0.001475	± 2.5	PASS
		VN	-30	-0.74	-0.000292	± 2.5	PASS
		VN	-20	3.04	0.001199	± 2.5	PASS
		VN	-10	2.64	0.001041	± 2.5	PASS
		VN	0	-0.54	-0.000213	± 2.5	PASS
		VN	10	1.74	0.000686	± 2.5	PASS
		VN	20	-1.33	-0.000525	± 2.5	PASS
		VN	30	1.78	0.000702	± 2.5	PASS
		VN	40	2.08	0.000821	± 2.5	PASS
	HCH	VN	50	3.35	0.001321	± 2.5	PASS
		VN	-30	1.22	0.000475	± 2.5	PASS
		VN	-20	2.08	0.000810	± 2.5	PASS
		VN	-10	3.82	0.001488	± 2.5	PASS
		VN	0	1.61	0.000627	± 2.5	PASS
		VN	10	2.83	0.001102	± 2.5	PASS
		VN	20	1.19	0.000463	± 2.5	PASS

		VN	30	0.9	0.000351	± 2.5	PASS
		VN	40	0.48	0.000187	± 2.5	PASS
		VN	50	3.78	0.001472	± 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	0.63	0.000251	± 2.5	PASS
		VN	TN	3.93	0.001569	± 2.5	PASS
		VH	TN	1.82	0.000727	± 2.5	PASS
	MCH	VL	TN	3.6	0.001420	± 2.5	PASS
		VN	TN	1.53	0.000604	± 2.5	PASS
		VH	TN	-1.44	-0.000568	± 2.5	PASS
	HCH	VL	TN	-1	-0.000390	± 2.5	PASS
		VN	TN	3.78	0.001474	± 2.5	PASS
		VH	TN	-0.28	-0.000109	± 2.5	PASS
16QAM	LCH	VL	TN	0.52	0.000208	± 2.5	PASS
		VN	TN	2.96	0.001182	± 2.5	PASS
		VH	TN	-1.32	-0.000527	± 2.5	PASS
	MCH	VL	TN	-0.88	-0.000347	± 2.5	PASS
		VN	TN	0.35	0.000138	± 2.5	PASS
		VH	TN	0.03	0.000012	± 2.5	PASS
	HCH	VL	TN	-1.86	-0.000725	± 2.5	PASS
		VN	TN	0.31	0.000121	± 2.5	PASS
		VH	TN	1.23	0.000480	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	3.64	0.001453	± 2.5	PASS
		VN	-20	0.89	0.000355	± 2.5	PASS
		VN	-10	-1.35	-0.000539	± 2.5	PASS
		VN	0	-1.38	-0.000551	± 2.5	PASS
		VN	10	-1.62	-0.000647	± 2.5	PASS
		VN	20	1.57	0.000627	± 2.5	PASS
		VN	30	0.6	0.000240	± 2.5	PASS
		VN	40	4.74	0.001892	± 2.5	PASS
		VN	50	4.65	0.001856	± 2.5	PASS
	MCH	VN	-30	-1.63	-0.000643	± 2.5	PASS
		VN	-20	2.54	0.001002	± 2.5	PASS

		VN	-10	0.52	0.000205	± 2.5	PASS	
		VN	0	-0.21	-0.000083	± 2.5	PASS	
		VN	10	-1.01	-0.000398	± 2.5	PASS	
		VN	20	-0.08	-0.000032	± 2.5	PASS	
		VN	30	1.46	0.000576	± 2.5	PASS	
		VN	40	0.8	0.000316	± 2.5	PASS	
		VN	50	3.14	0.001239	± 2.5	PASS	
	HCH	VN	-30	3.05	0.001189	± 2.5	PASS	
		VN	-20	-1.03	-0.000402	± 2.5	PASS	
		VN	-10	1.25	0.000487	± 2.5	PASS	
		VN	0	-0.27	-0.000105	± 2.5	PASS	
		VN	10	-1.69	-0.000659	± 2.5	PASS	
		VN	20	-1.67	-0.000651	± 2.5	PASS	
		VN	30	0.35	0.000136	± 2.5	PASS	
		VN	40	4.68	0.001825	± 2.5	PASS	
		VN	50	0.91	0.000355	± 2.5	PASS	
	QPSK	LCH	VN	-30	1.75	0.000699	± 2.5	PASS
			VN	-20	1.42	0.000567	± 2.5	PASS
VN			-10	1.11	0.000443	± 2.5	PASS	
VN			0	4.7	0.001876	± 2.5	PASS	
VN			10	3.1	0.001238	± 2.5	PASS	
VN			20	2.43	0.000970	± 2.5	PASS	
VN			30	4.44	0.001772	± 2.5	PASS	
VN			40	2.33	0.000930	± 2.5	PASS	
VN			50	-0.9	-0.000359	± 2.5	PASS	
MCH		VN	-30	1.87	0.000738	± 2.5	PASS	
		VN	-20	2.93	0.001156	± 2.5	PASS	
		VN	-10	2.07	0.000817	± 2.5	PASS	
		VN	0	3.83	0.001511	± 2.5	PASS	
		VN	10	-1.82	-0.000718	± 2.5	PASS	
		VN	20	-0.04	-0.000016	± 2.5	PASS	
		VN	30	-0.21	-0.000083	± 2.5	PASS	
		VN	40	-0.97	-0.000383	± 2.5	PASS	
		VN	50	2.91	0.001148	± 2.5	PASS	
HCH	VN	-30	1.97	0.000768	± 2.5	PASS		
	VN	-20	4.56	0.001778	± 2.5	PASS		
	VN	-10	1.5	0.000585	± 2.5	PASS		
	VN	0	3.68	0.001435	± 2.5	PASS		
	VN	10	-1.02	-0.000398	± 2.5	PASS		
	VN	20	-0.99	-0.000386	± 2.5	PASS		
	VN	30	4.69	0.001828	± 2.5	PASS		

		VN	40	-0.86	-0.000335	± 2.5	PASS
		VN	50	2.08	0.000811	± 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	3.31	0.001320	± 2.5	PASS
		VN	TN	-0.65	-0.000259	± 2.5	PASS
		VH	TN	3.36	0.001340	± 2.5	PASS
	MCH	VL	TN	3.37	0.001329	± 2.5	PASS
		VN	TN	0.88	0.000347	± 2.5	PASS
		VH	TN	3.78	0.001491	± 2.5	PASS
	HCH	VL	TN	4.44	0.001733	± 2.5	PASS
		VN	TN	-0.24	-0.000094	± 2.5	PASS
		VH	TN	4.45	0.001737	± 2.5	PASS
16QAM	LCH	VL	TN	1.76	0.000702	± 2.5	PASS
		VN	TN	2.96	0.001180	± 2.5	PASS
		VH	TN	2.47	0.000985	± 2.5	PASS
	MCH	VL	TN	-1.53	-0.000604	± 2.5	PASS
		VN	TN	2.23	0.000880	± 2.5	PASS
		VH	TN	-0.2	-0.000079	± 2.5	PASS
	HCH	VL	TN	4.07	0.001588	± 2.5	PASS
		VN	TN	3.6	0.001405	± 2.5	PASS
		VH	TN	-0.35	-0.000137	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.8	-0.000718	± 2.5	PASS
		VN	-20	0.64	0.000255	± 2.5	PASS
		VN	-10	0.43	0.000171	± 2.5	PASS
		VN	0	2.59	0.001033	± 2.5	PASS
		VN	10	-1.98	-0.000790	± 2.5	PASS
		VN	20	1.55	0.000618	± 2.5	PASS
		VN	30	0.25	0.000100	± 2.5	PASS
		VN	40	4.46	0.001779	± 2.5	PASS
		VN	50	0.87	0.000347	± 2.5	PASS
	MCH	VN	-30	-1.98	-0.000781	± 2.5	PASS
		VN	-20	-1.85	-0.000730	± 2.5	PASS
		VN	-10	-0.86	-0.000339	± 2.5	PASS

		VN	0	0.35	0.000138	± 2.5	PASS
		VN	10	0.57	0.000225	± 2.5	PASS
		VN	20	-0.77	-0.000304	± 2.5	PASS
		VN	30	-1.13	-0.000446	± 2.5	PASS
		VN	40	0.97	0.000383	± 2.5	PASS
		VN	50	-1.94	-0.000765	± 2.5	PASS
	HCH	VN	-30	-0.4	-0.000156	± 2.5	PASS
		VN	-20	1.91	0.000745	± 2.5	PASS
		VN	-10	0.32	0.000125	± 2.5	PASS
		VN	0	0.55	0.000215	± 2.5	PASS
		VN	10	3.08	0.001202	± 2.5	PASS
		VN	20	1.77	0.000691	± 2.5	PASS
		VN	30	2.69	0.001050	± 2.5	PASS
		VN	40	4.17	0.001627	± 2.5	PASS
		VN	50	-1.51	-0.000589	± 2.5	PASS
QPSK	LCH	VN	-30	0.38	0.000152	± 2.5	PASS
		VN	-20	3.08	0.001228	± 2.5	PASS
		VN	-10	0.74	0.000295	± 2.5	PASS
		VN	0	3.78	0.001507	± 2.5	PASS
		VN	10	1.87	0.000746	± 2.5	PASS
		VN	20	-1.36	-0.000542	± 2.5	PASS
		VN	30	2.06	0.000822	± 2.5	PASS
		VN	40	-1	-0.000399	± 2.5	PASS
		VN	50	3.61	0.001440	± 2.5	PASS
	MCH	VN	-30	3.14	0.001239	± 2.5	PASS
		VN	-20	2.14	0.000844	± 2.5	PASS
		VN	-10	3.09	0.001219	± 2.5	PASS
		VN	0	3.35	0.001321	± 2.5	PASS
		VN	10	-0.9	-0.000355	± 2.5	PASS
		VN	20	3.98	0.001570	± 2.5	PASS
		VN	30	1.75	0.000690	± 2.5	PASS
		VN	40	2.76	0.001089	± 2.5	PASS
		VN	50	-0.32	-0.000126	± 2.5	PASS
	HCH	VN	-30	2.91	0.001136	± 2.5	PASS
		VN	-20	2.36	0.000921	± 2.5	PASS
		VN	-10	-1.72	-0.000671	± 2.5	PASS
		VN	0	-1.79	-0.000699	± 2.5	PASS
		VN	10	3.02	0.001179	± 2.5	PASS
		VN	20	4.45	0.001737	± 2.5	PASS
		VN	30	-0.78	-0.000304	± 2.5	PASS
		VN	40	1.82	0.000710	± 2.5	PASS

		VN	50	-0.19	-0.000074	± 2.5	PASS
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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	0.000028	± 2.5	PASS
		VN	TN	3.9	0.001554	± 2.5	PASS
		VH	TN	1.29	0.000514	± 2.5	PASS
	MCH	VL	TN	1.94	0.000765	± 2.5	PASS
		VN	TN	1.82	0.000718	± 2.5	PASS
		VH	TN	4.97	0.001961	± 2.5	PASS
	HCH	VL	TN	0.7	0.000273	± 2.5	PASS
		VN	TN	-0.09	-0.000035	± 2.5	PASS
		VH	TN	1.82	0.000711	± 2.5	PASS
16QAM	LCH	VL	TN	-0.52	-0.000207	± 2.5	PASS
		VN	TN	0.96	0.000382	± 2.5	PASS
		VH	TN	-1.25	-0.000498	± 2.5	PASS
	MCH	VL	TN	4.58	0.001807	± 2.5	PASS
		VN	TN	4.64	0.001830	± 2.5	PASS
		VH	TN	0.1	0.000039	± 2.5	PASS
	HCH	VL	TN	0.82	0.000320	± 2.5	PASS
		VN	TN	3.72	0.001453	± 2.5	PASS
		VH	TN	-1.44	-0.000563	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.91	0.001956	± 2.5	PASS
		VN	-20	0.47	0.000187	± 2.5	PASS
		VN	-10	-0.69	-0.000275	± 2.5	PASS
		VN	0	0.64	0.000255	± 2.5	PASS
		VN	10	3.5	0.001394	± 2.5	PASS
		VN	20	1.33	0.000530	± 2.5	PASS
		VN	30	3.76	0.001498	± 2.5	PASS
		VN	40	4.89	0.001948	± 2.5	PASS
		VN	50	-1.73	-0.000689	± 2.5	PASS
	MCH	VN	-30	4.3	0.001696	± 2.5	PASS
		VN	-20	0.66	0.000260	± 2.5	PASS
		VN	-10	4.37	0.001724	± 2.5	PASS
		VN	0	-1.23	-0.000485	± 2.5	PASS

		VN	10	1.14	0.000450	± 2.5	PASS
		VN	20	0.71	0.000280	± 2.5	PASS
		VN	30	4.28	0.001688	± 2.5	PASS
		VN	40	4.84	0.001909	± 2.5	PASS
		VN	50	-0.42	-0.000166	± 2.5	PASS
	HCH	VN	-30	3.16	0.001234	± 2.5	PASS
		VN	-20	4.04	0.001578	± 2.5	PASS
		VN	-10	2.62	0.001023	± 2.5	PASS
		VN	0	3.95	0.001543	± 2.5	PASS
		VN	10	3.31	0.001293	± 2.5	PASS
		VN	20	4.57	0.001785	± 2.5	PASS
		VN	30	2.07	0.000809	± 2.5	PASS
		VN	40	1.64	0.000641	± 2.5	PASS
		VN	50	-1.99	-0.000777	± 2.5	PASS
		VN	-30	4.6	0.001833	± 2.5	PASS
QPSK	LCH	VN	-20	2.01	0.000801	± 2.5	PASS
		VN	-10	-1.65	-0.000657	± 2.5	PASS
		VN	0	1.12	0.000446	± 2.5	PASS
		VN	10	-1.1	-0.000438	± 2.5	PASS
		VN	20	1.65	0.000657	± 2.5	PASS
		VN	30	2.75	0.001096	± 2.5	PASS
		VN	40	-0.42	-0.000167	± 2.5	PASS
		VN	50	-1.98	-0.000789	± 2.5	PASS
	MCH	VN	-30	2.86	0.001128	± 2.5	PASS
		VN	-20	2.31	0.000911	± 2.5	PASS
		VN	-10	1.15	0.000454	± 2.5	PASS
		VN	0	3.61	0.001424	± 2.5	PASS
		VN	10	4.43	0.001748	± 2.5	PASS
		VN	20	-0.59	-0.000233	± 2.5	PASS
		VN	30	-1.89	-0.000746	± 2.5	PASS
		VN	40	4.07	0.001606	± 2.5	PASS
		VN	50	-0.15	-0.000059	± 2.5	PASS
	HCH	VN	-30	-0.51	-0.000199	± 2.5	PASS
		VN	-20	-0.44	-0.000172	± 2.5	PASS
		VN	-10	0.19	0.000074	± 2.5	PASS
		VN	0	-0.57	-0.000223	± 2.5	PASS
		VN	10	-0.39	-0.000152	± 2.5	PASS
		VN	20	1.27	0.000496	± 2.5	PASS
		VN	30	3.76	0.001469	± 2.5	PASS
		VN	40	2.89	0.001129	± 2.5	PASS
		VN	50	3.33	0.001301	± 2.5	PASS