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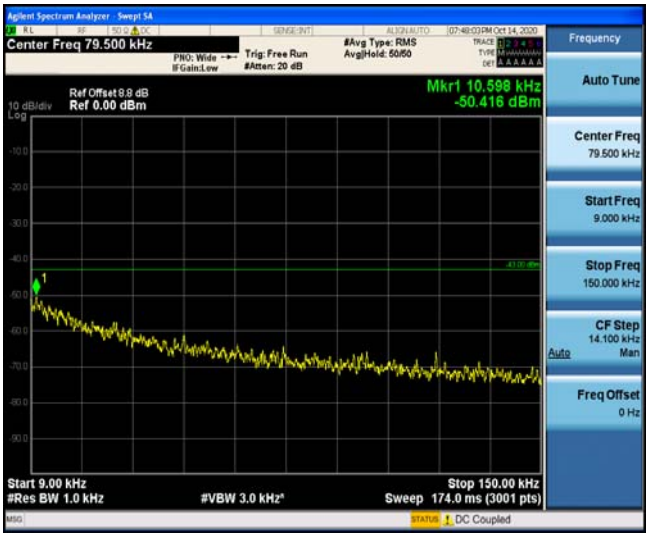

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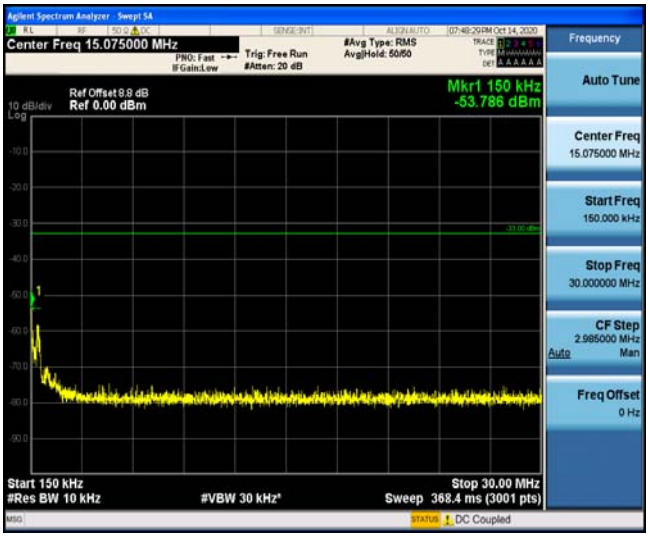

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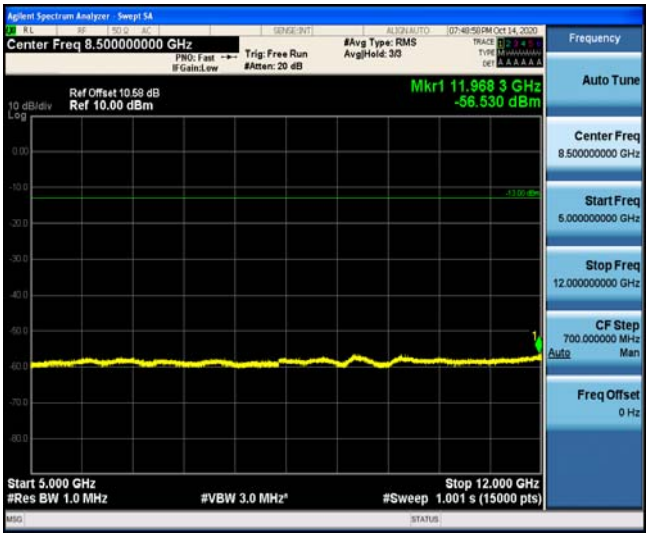
Band25_3MHz_16QAM_26675_1RB#0



Band25_3MHz_16QAM_26675_1RB#0

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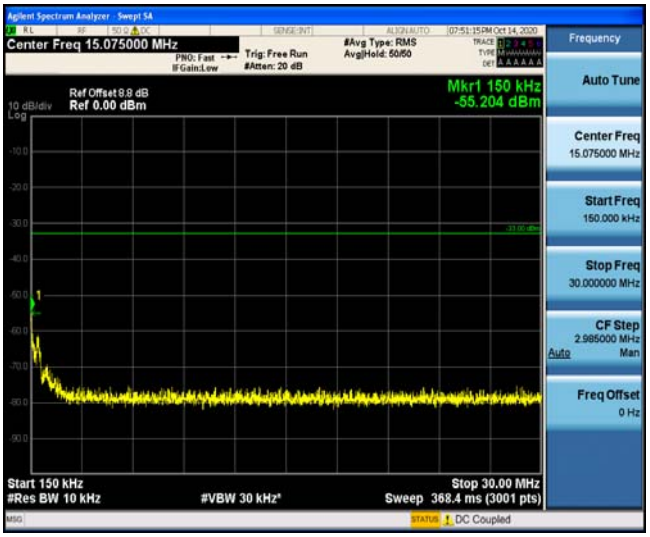

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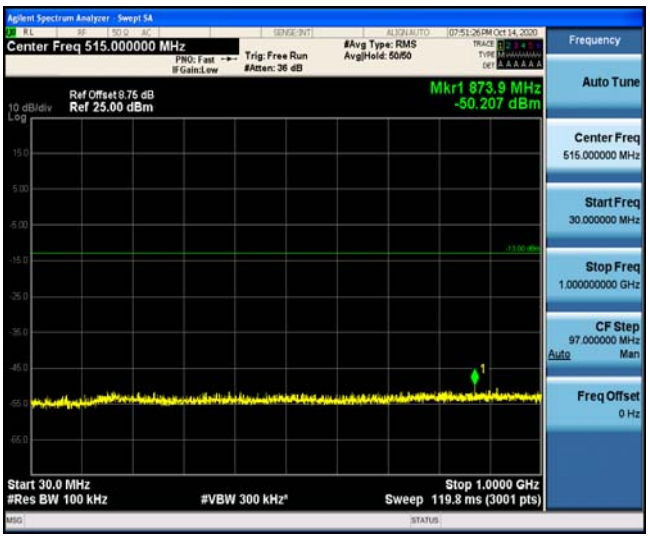

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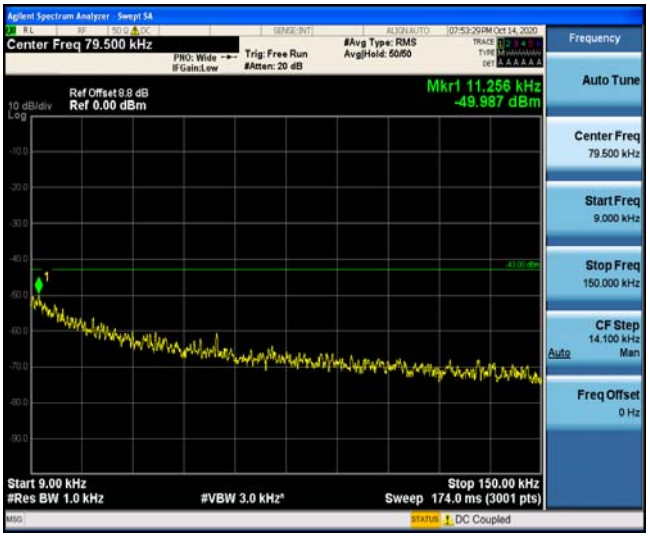

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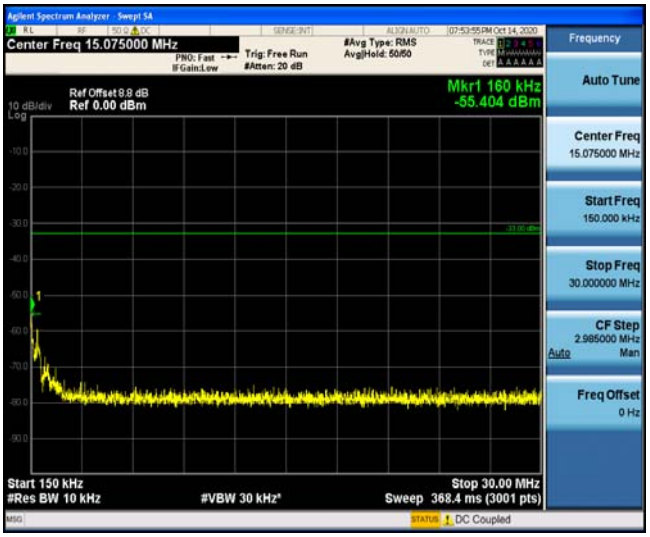

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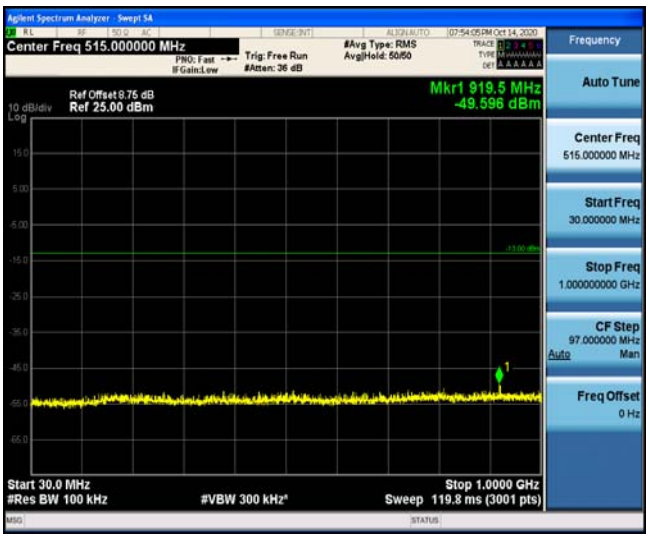

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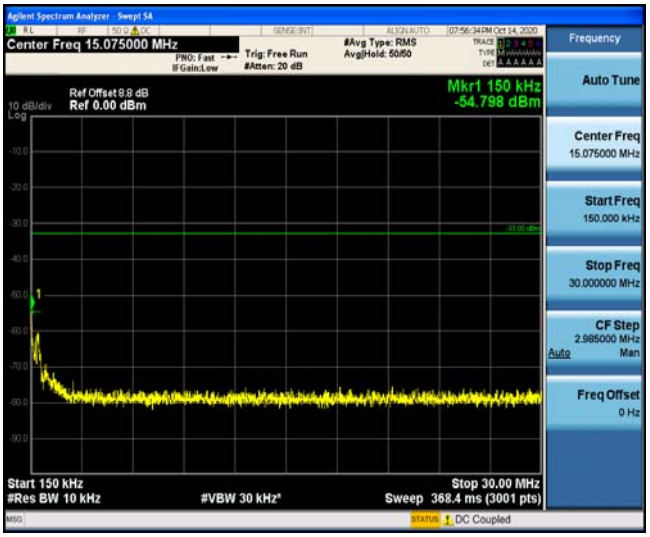

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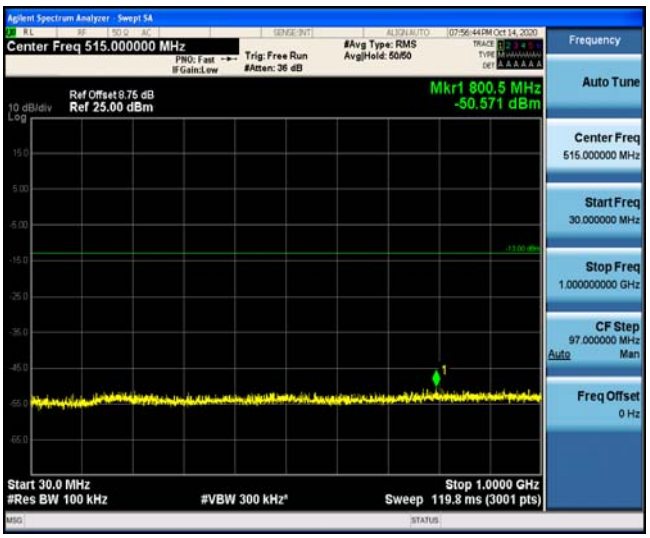

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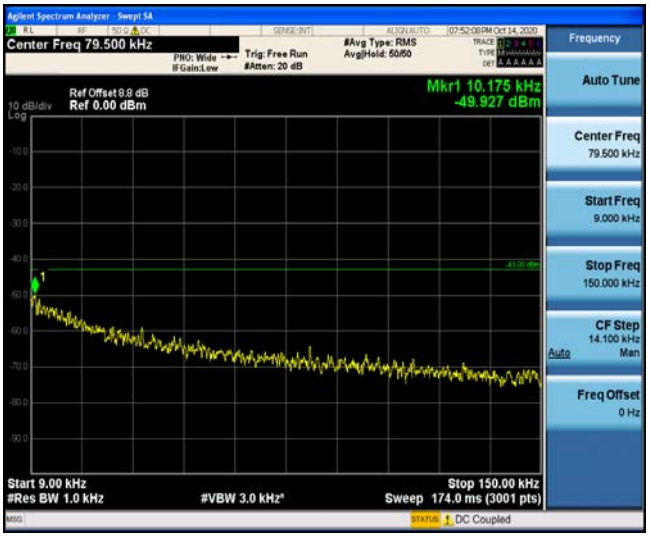

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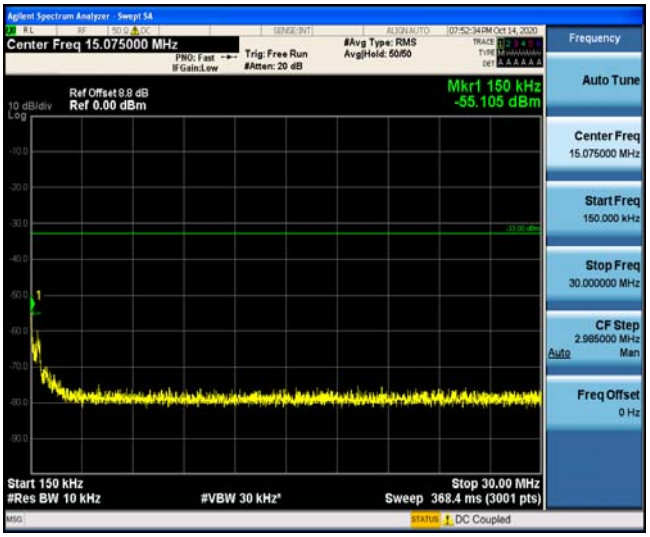

Band25_5MHz_16QAM_26065_1RB#0

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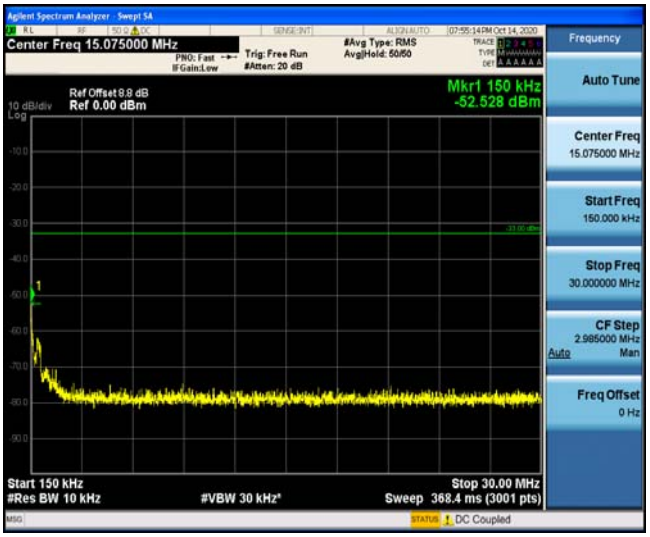
Band25_5MHz_16QAM_26365_1RB#0

Band25_5MHz_16QAM_26365_1RB#0



Band25_5MHz_16QAM_26365_1RB#0

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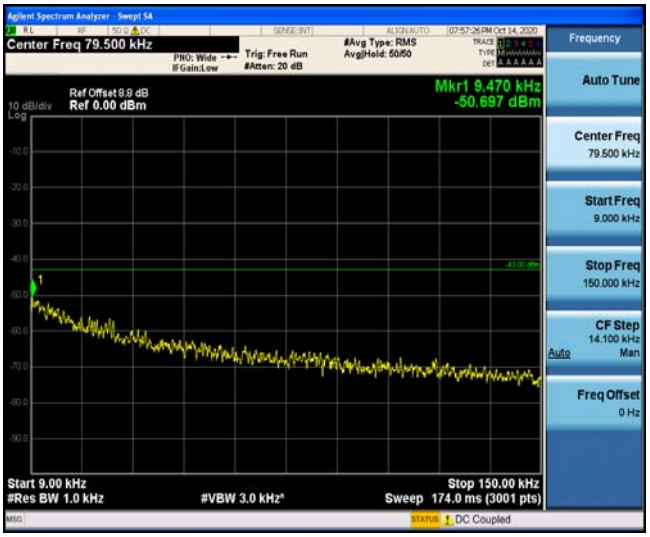
Band25_5MHz_16QAM_26665_1RB#0



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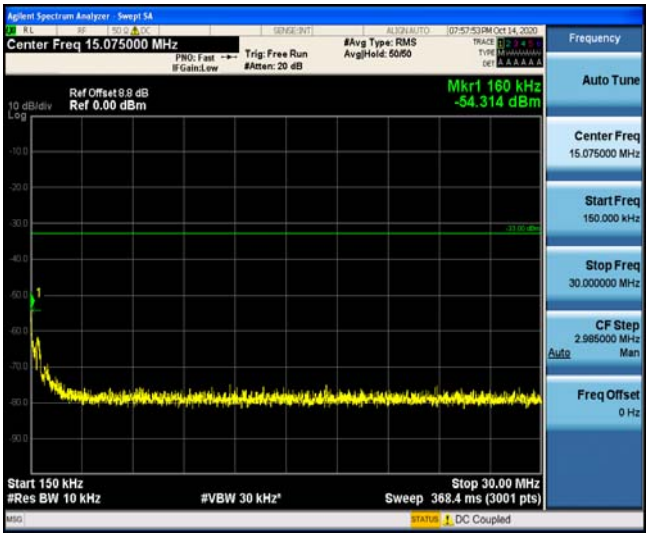

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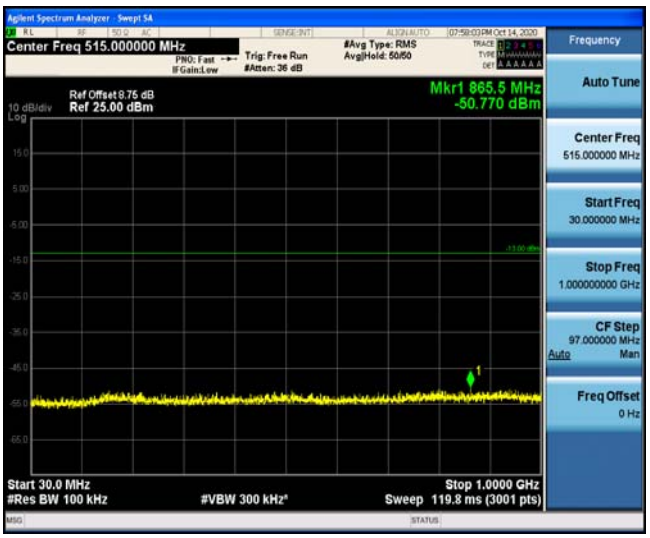

Band25_5MHz_16QAM_26665_1RB#0

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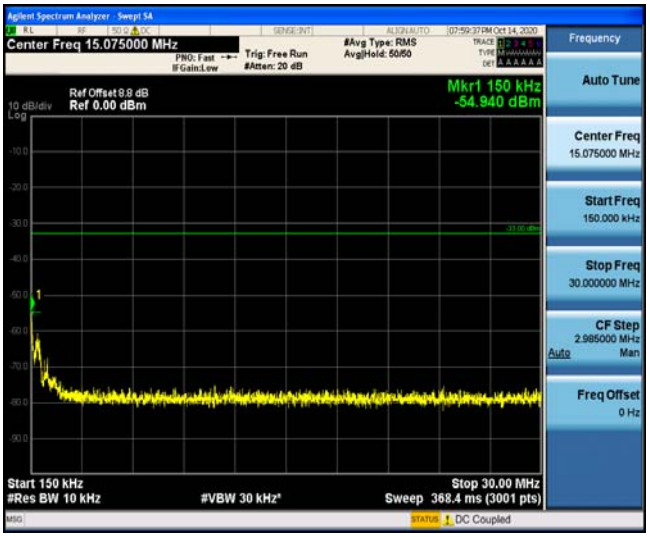

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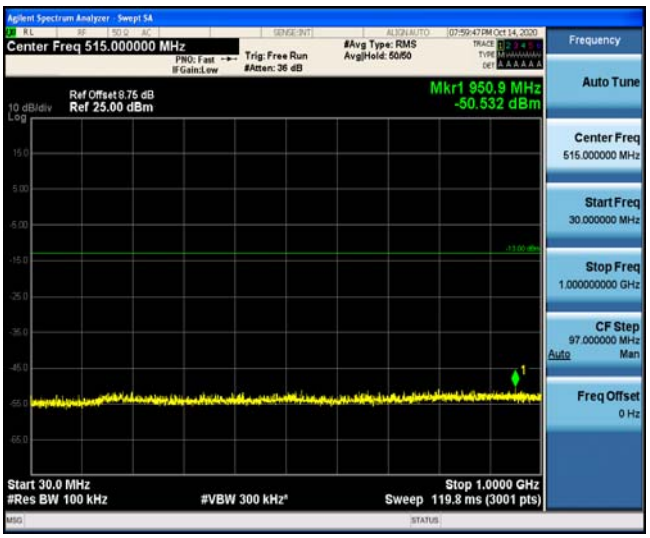

Band25_10MHz_QPSK_26090_1RB#0

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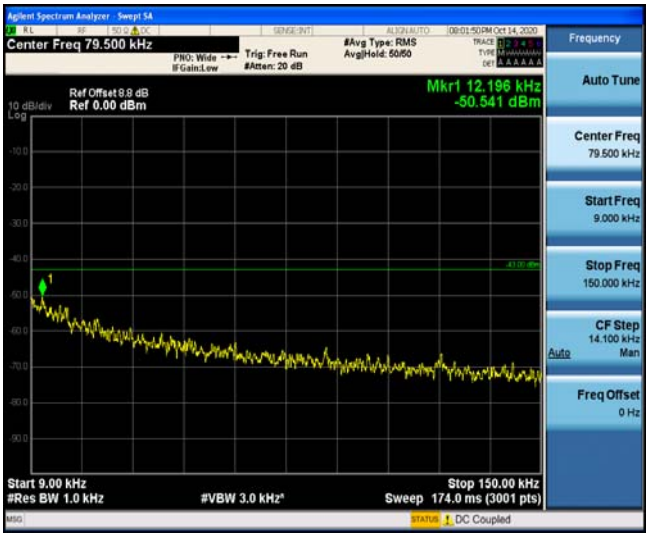

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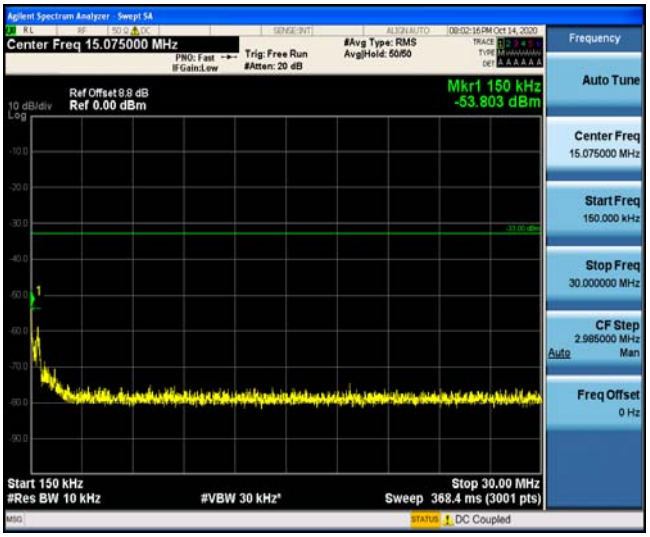

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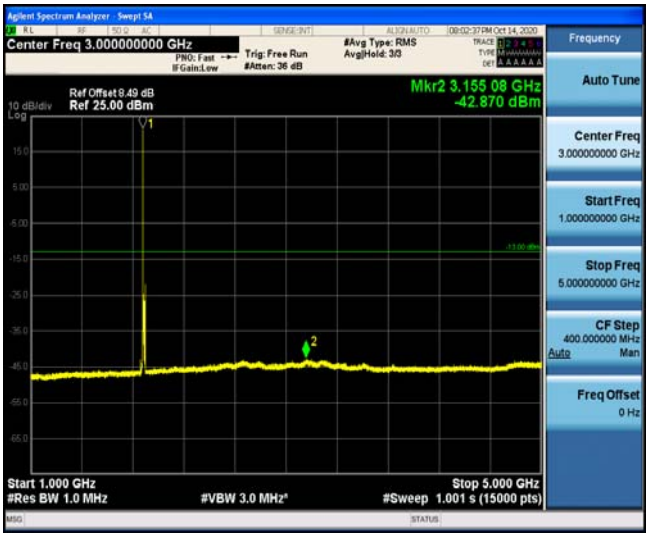

Band25_10MHz_QPSK_26365_1RB#0

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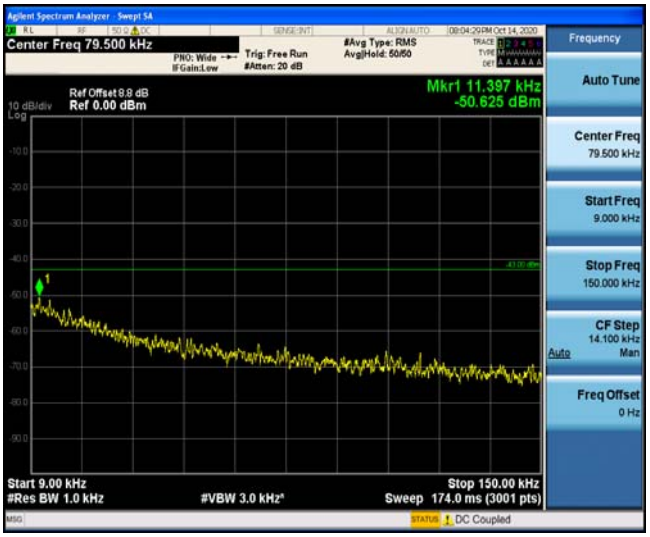

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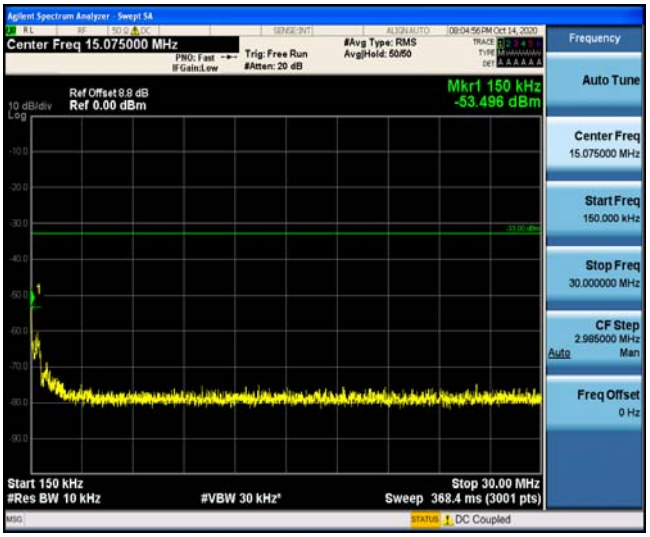

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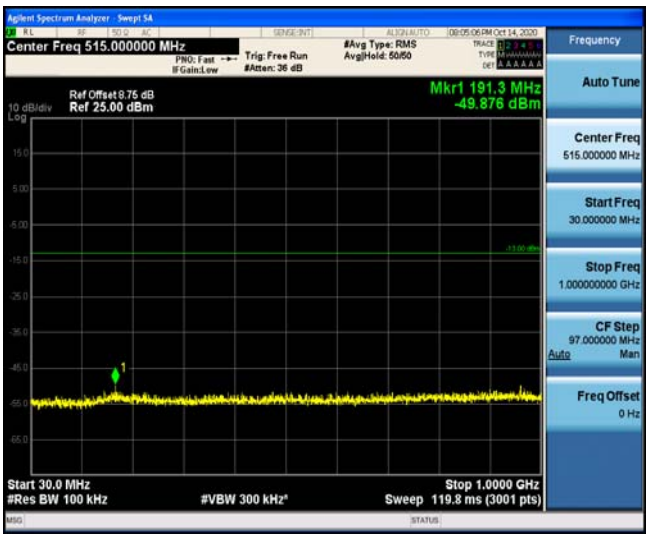

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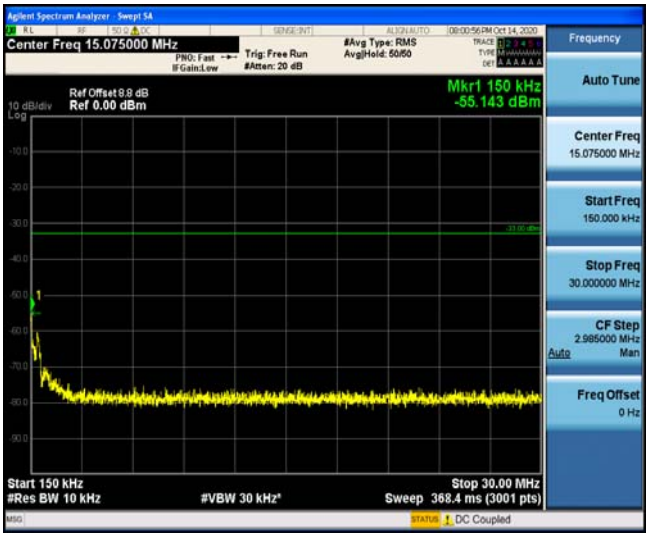

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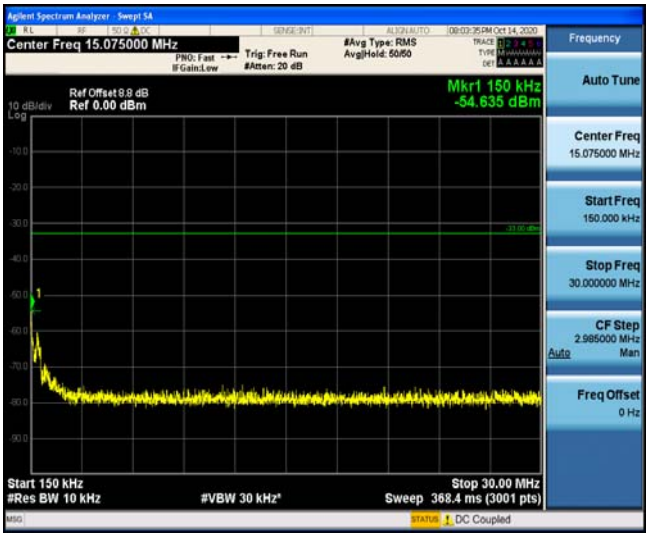
Band25_10MHz_16QAM_26365_1RB#0

Band25_10MHz_16QAM_26365_1RB#0



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Band25_10MHz_16QAM_26640_1RB#0

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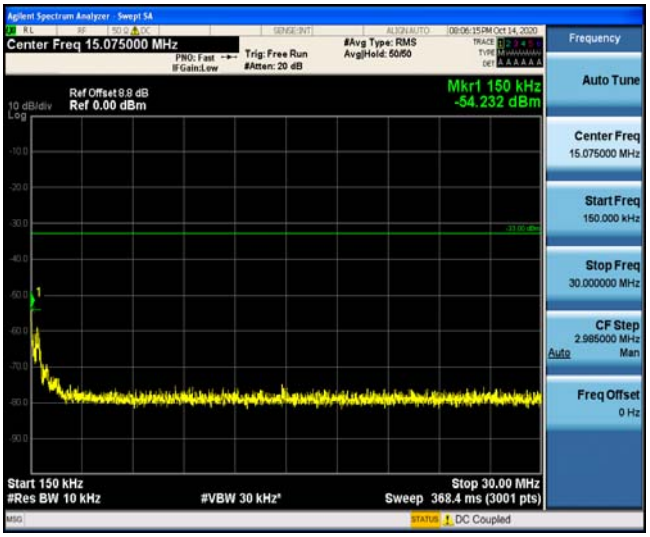

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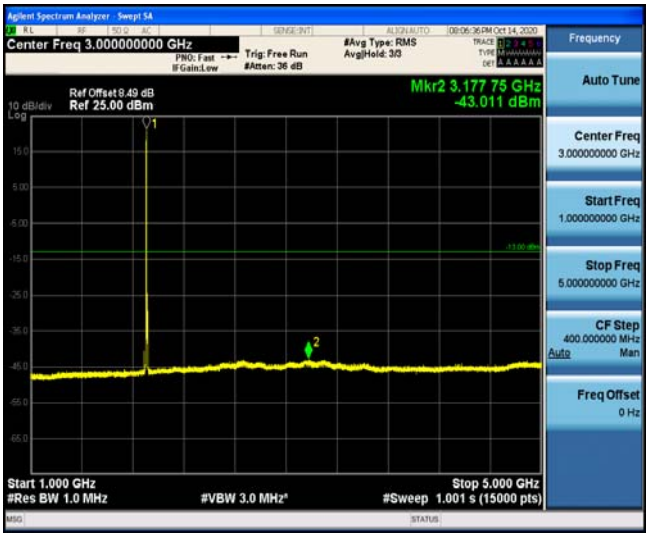
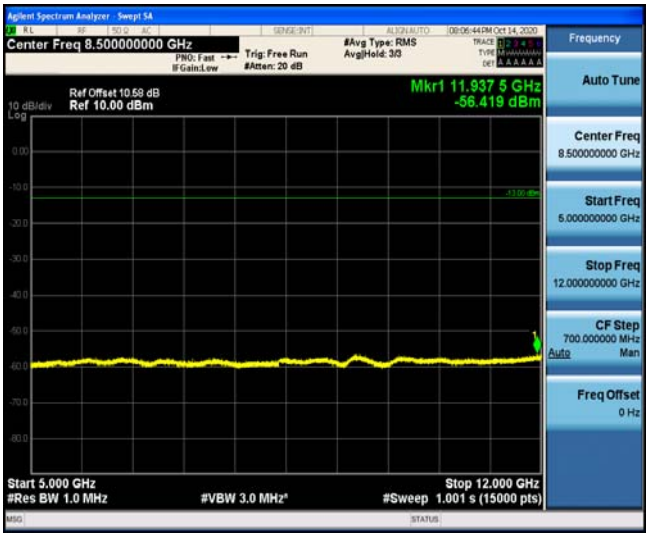


Band25_10MHz_16QAM_26640_1RB#0



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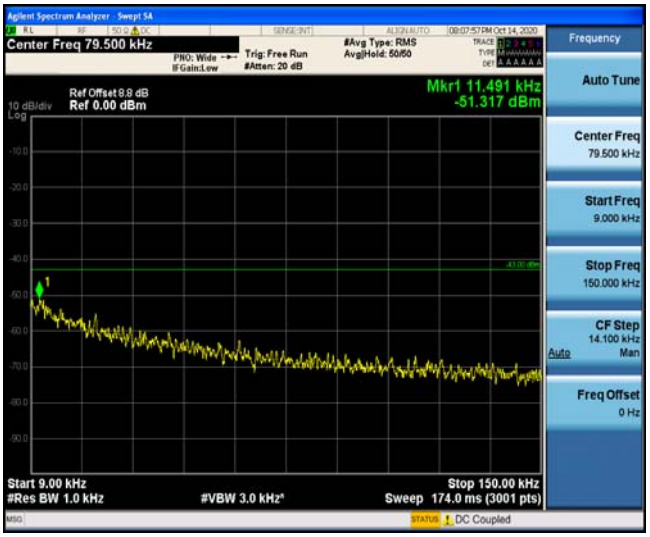

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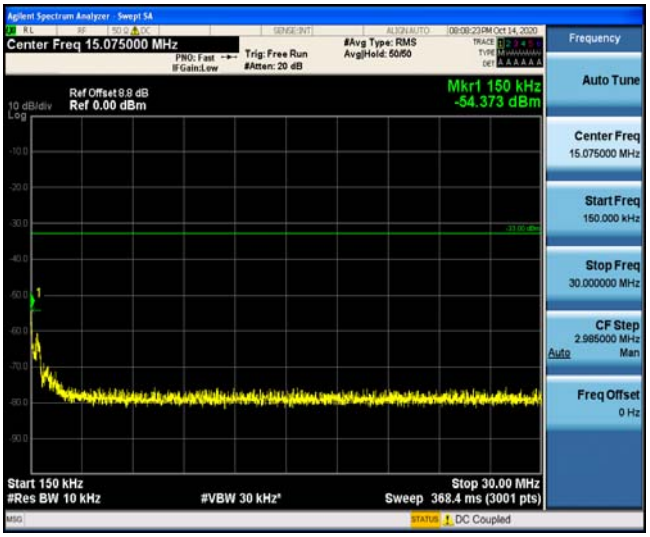

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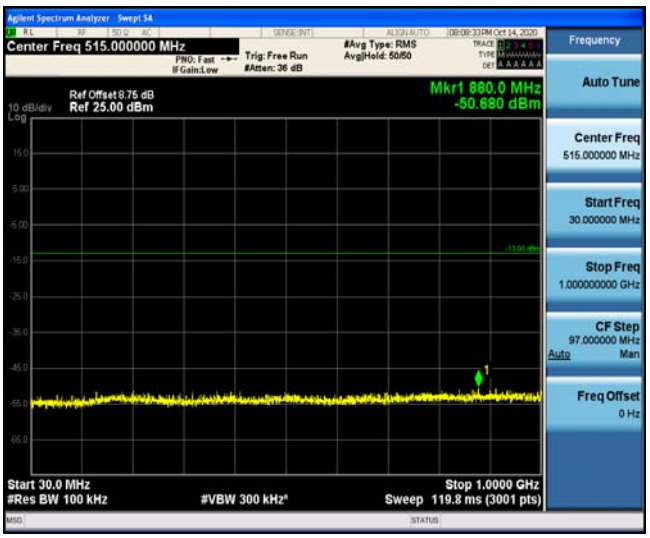

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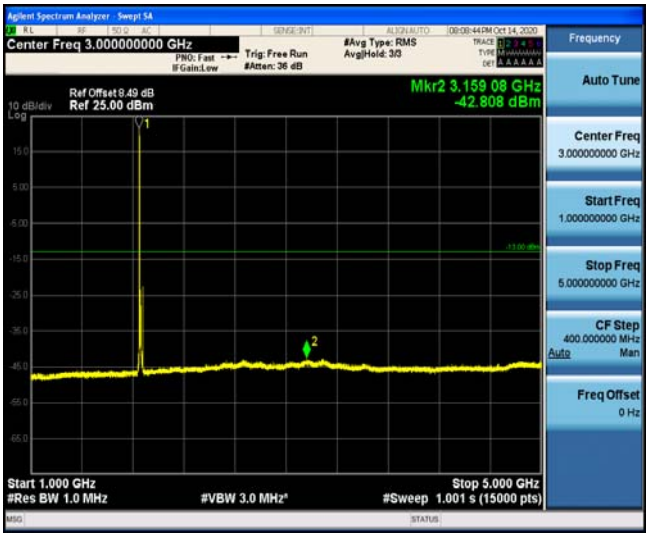
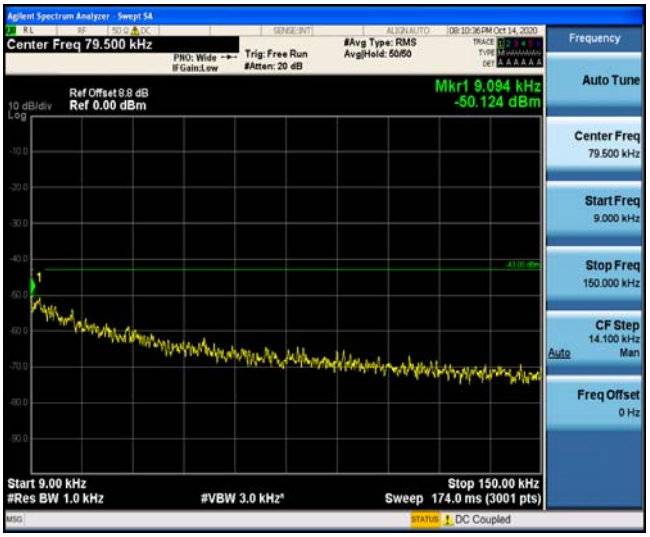


Band25_15MHz_QPSK_26115_1RB#0

Band25_15MHz_QPSK_26115_1RB#0

Band25_15MHz_QPSK_26365_1RB#0



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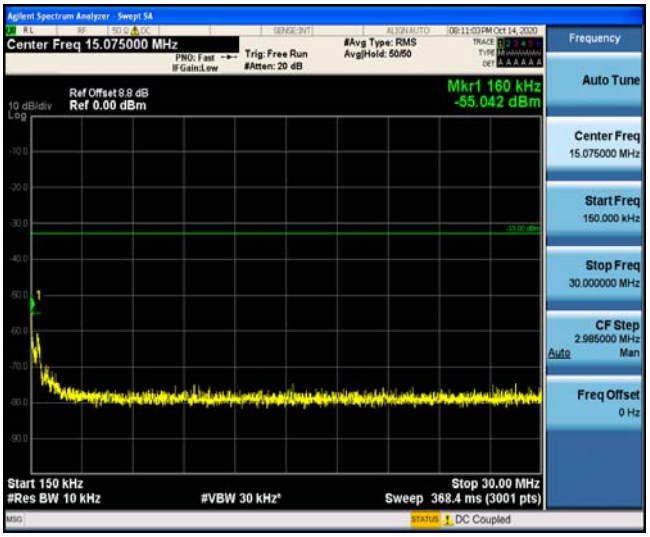
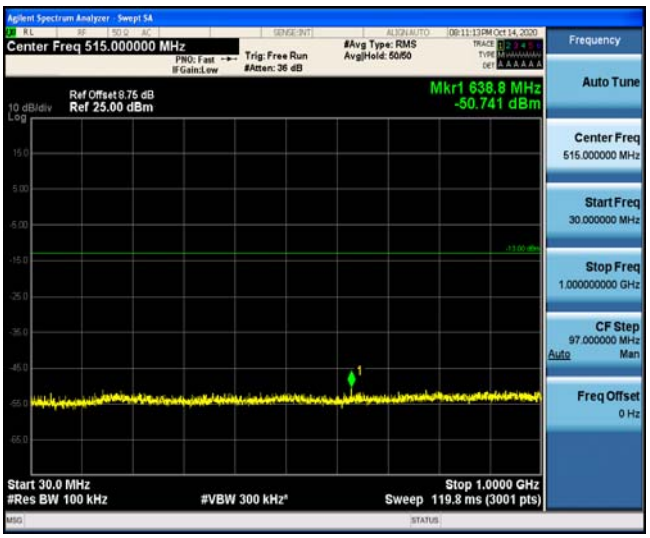


Band25_15MHz_QPSK_26365_1RB#0



Band25_15MHz_QPSK_26365_1RB#0

Band25_15MHz_QPSK_26365_1RB#0

Band25_15MHz_QPSK_26365_1RB#0

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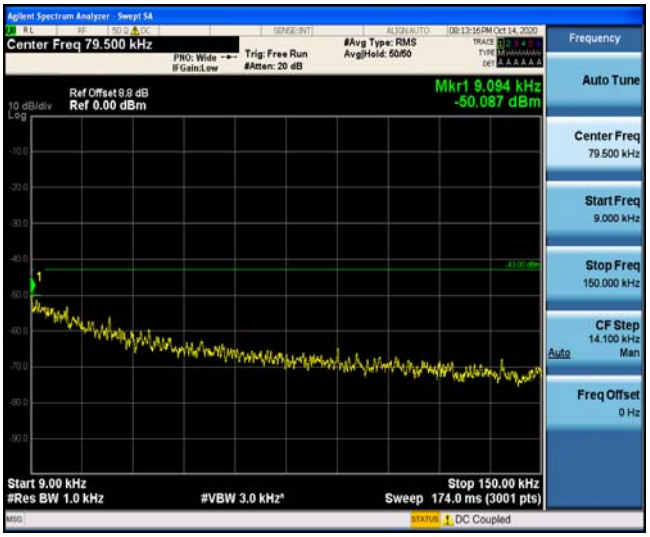
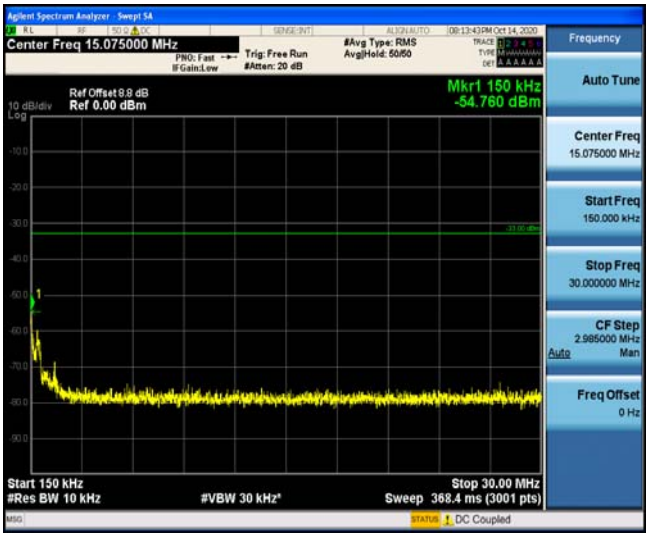
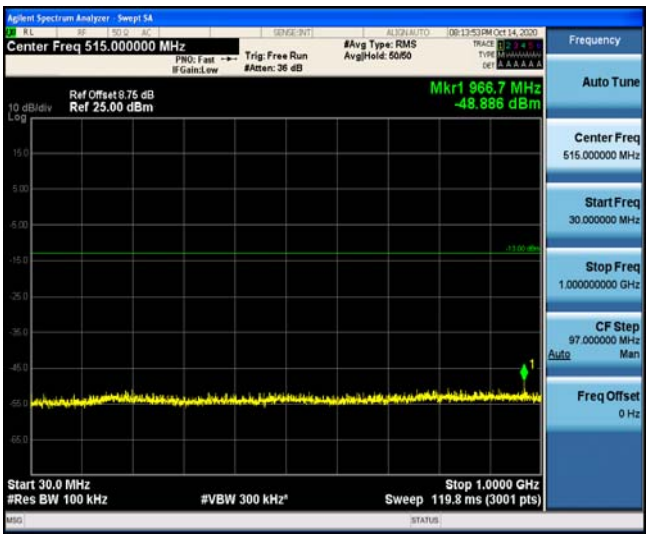


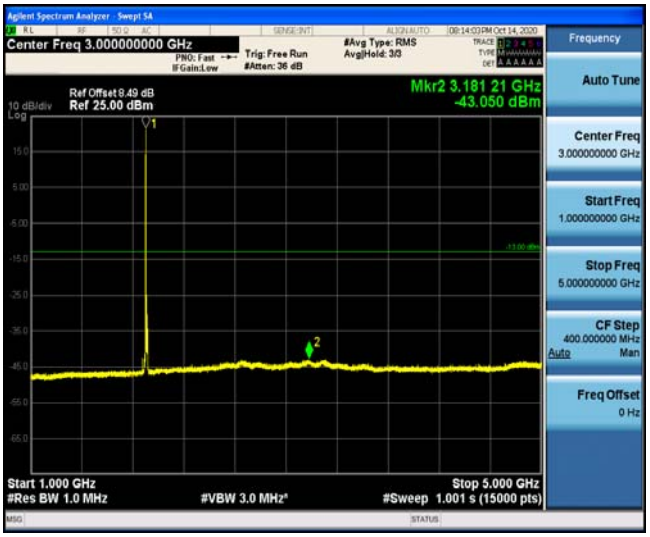
Band25_15MHz_QPSK_26615_1RB#0



Band25_15MHz_QPSK_26615_1RB#0



Band25_15MHz_QPSK_26615_1RB#0



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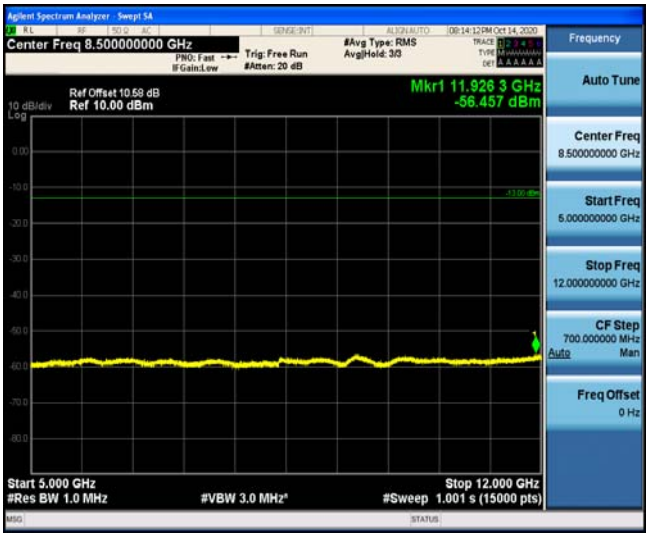
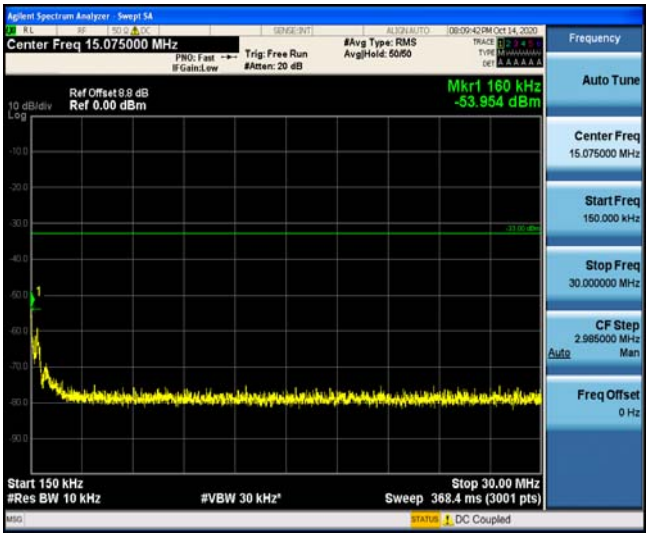


Band25_15MHz_QPSK_26615_1RB#0

Band25_15MHz_16QAM_26115_1RB#0

Band25_15MHz_16QAM_26115_1RB#0



Band25_15MHz_16QAM_26115_1RB#0

Band25_15MHz_16QAM_26115_1RB#0

Band25_15MHz_16QAM_26115_1RB#0

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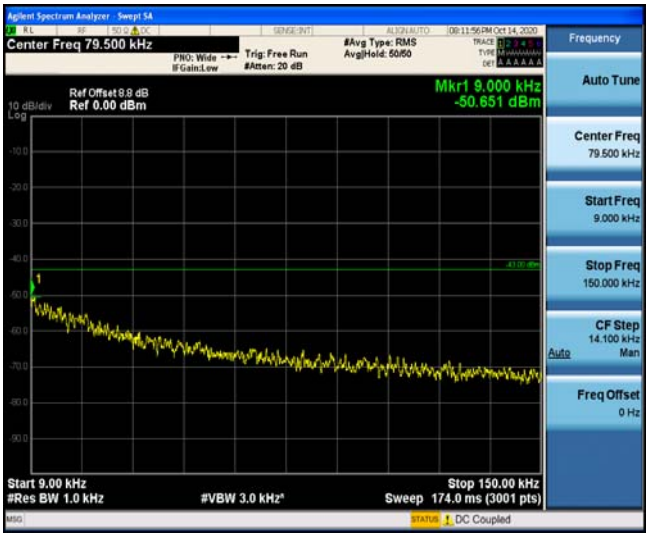
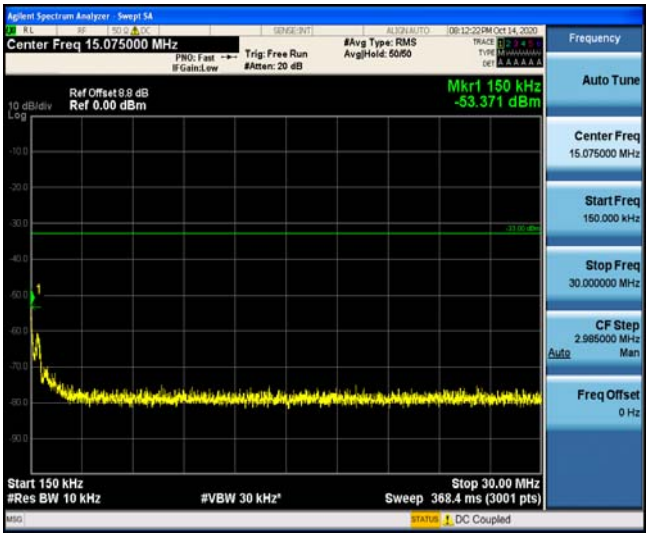


Band25_15MHz_16QAM_26365_1RB#0



Band25_15MHz_16QAM_26365_1RB#0

Band25_15MHz_16QAM_26365_1RB#0

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Band25_15MHz_16QAM_26365_1RB#0

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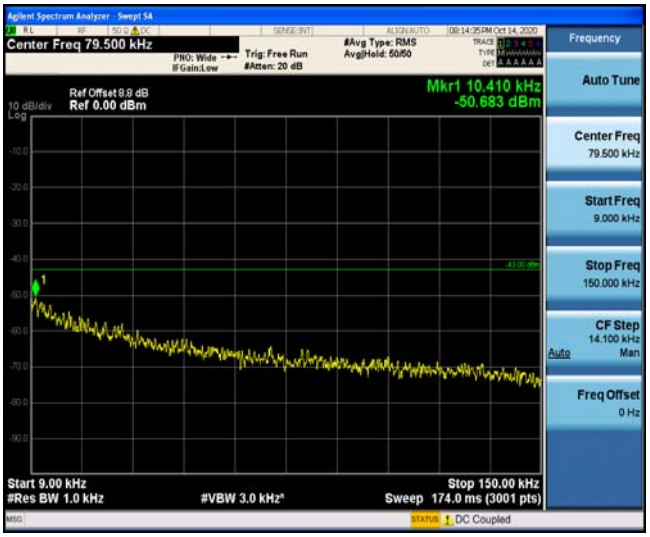

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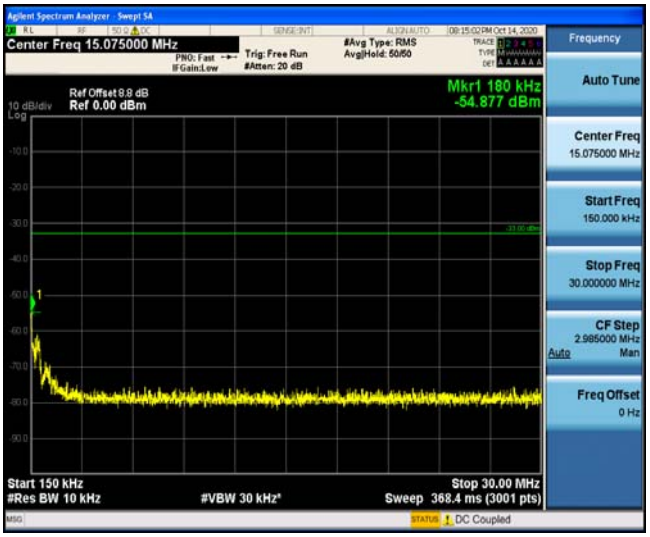

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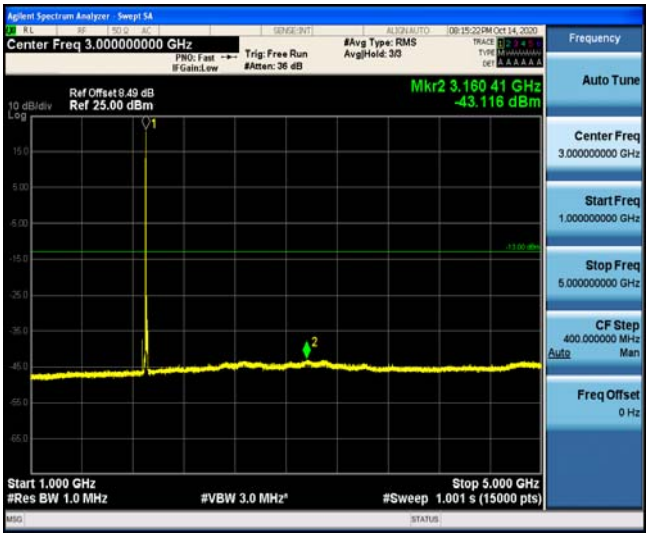
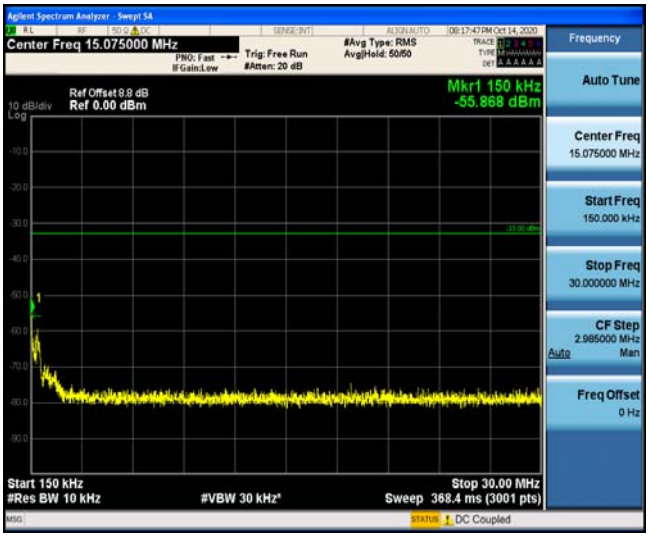


Band25_15MHz_16QAM_26615_1RB#0

Band25_15MHz_16QAM_26615_1RB#0

Band25_20MHz_QPSK_26140_1RB#0

Band25_20MHz_QPSK_26140_1RB#0



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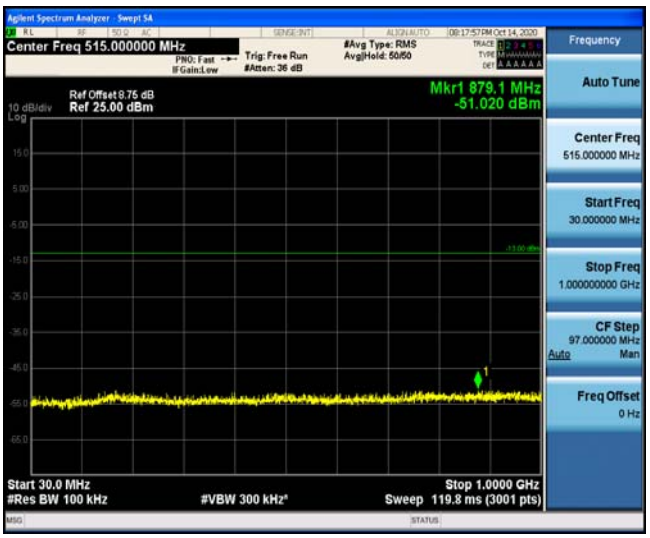

Band25_20MHz_QPSK_26140_1RB#0

Band25_20MHz_QPSK_26140_1RB#0

Band25_20MHz_QPSK_26140_1RB#0

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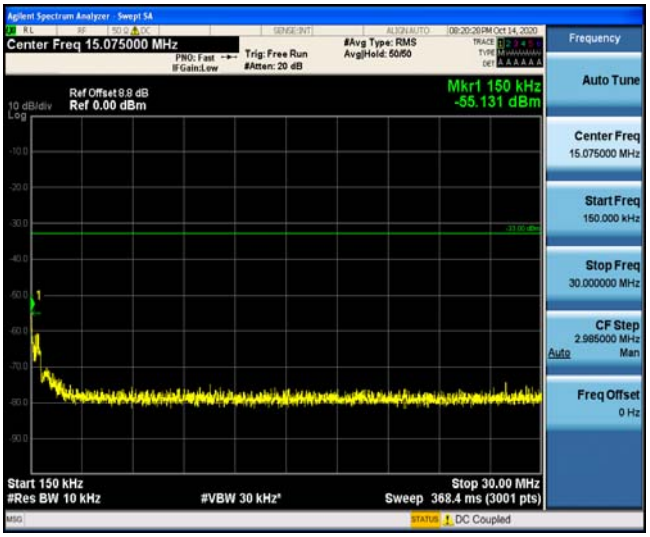
Band25_20MHz_QPSK_26365_1RB#0



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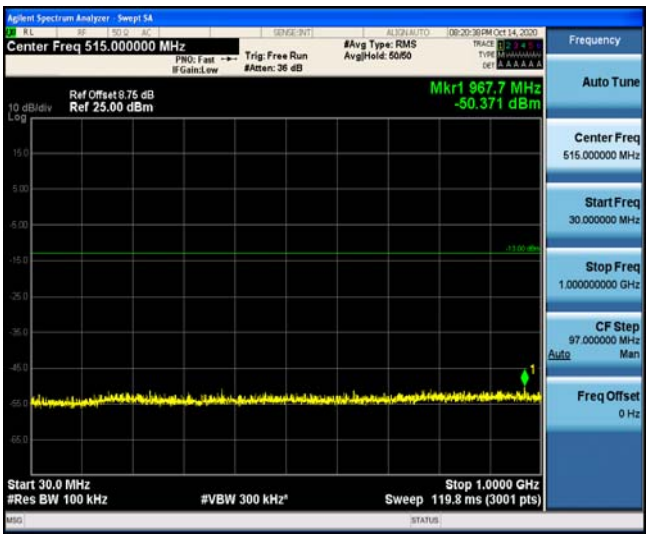

Band25_20MHz_QPSK_26365_1RB#0

Band25_20MHz_QPSK_26365_1RB#0

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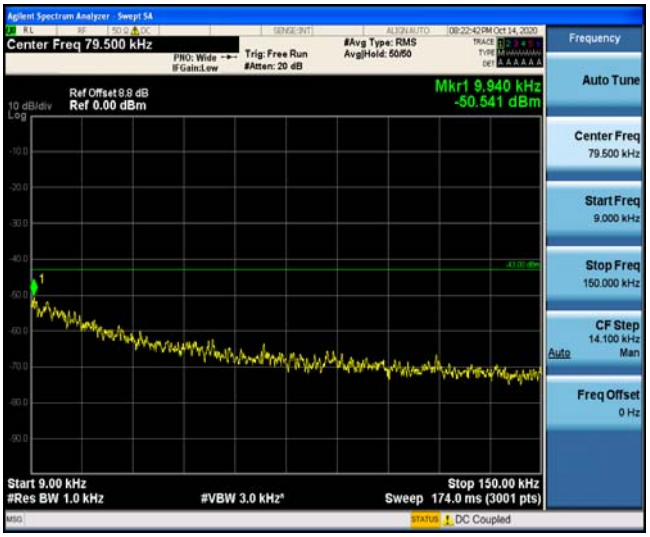

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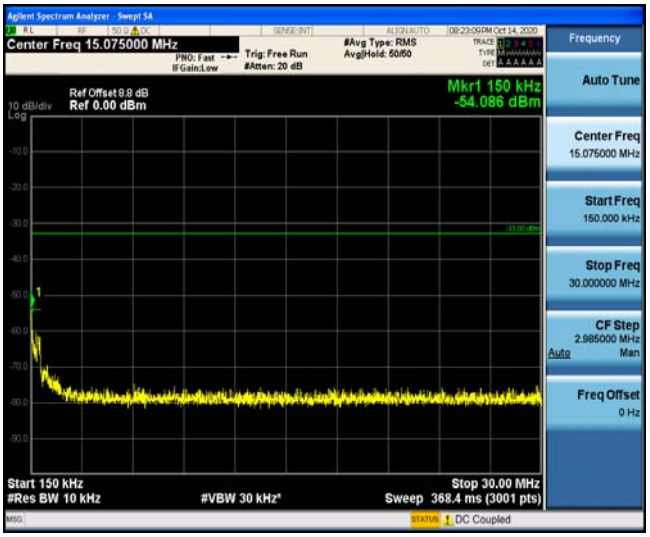


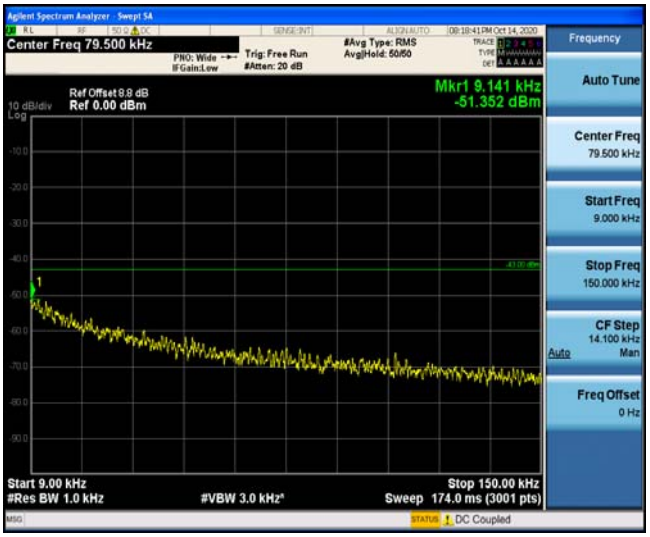
Band25_20MHz_QPSK_26590_1RB#0

Band25_20MHz_QPSK_26590_1RB#0

Band25_20MHz_QPSK_26590_1RB#0

Band25_20MHz_QPSK_26590_1RB#0

Band25_20MHz_16QAM_26140_1RB#0



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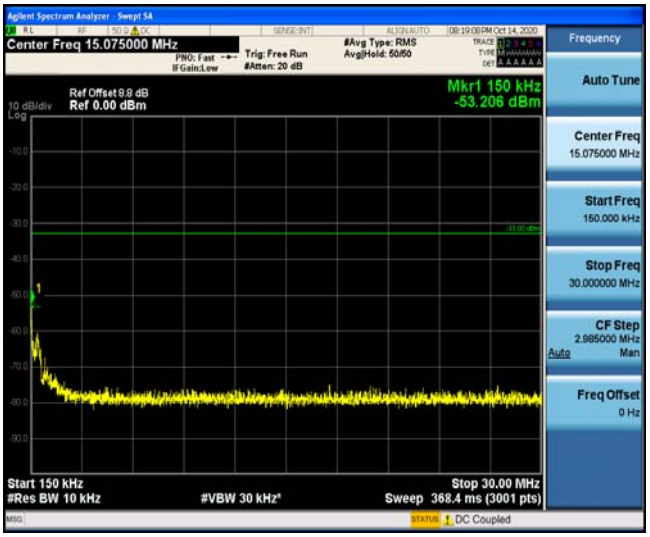


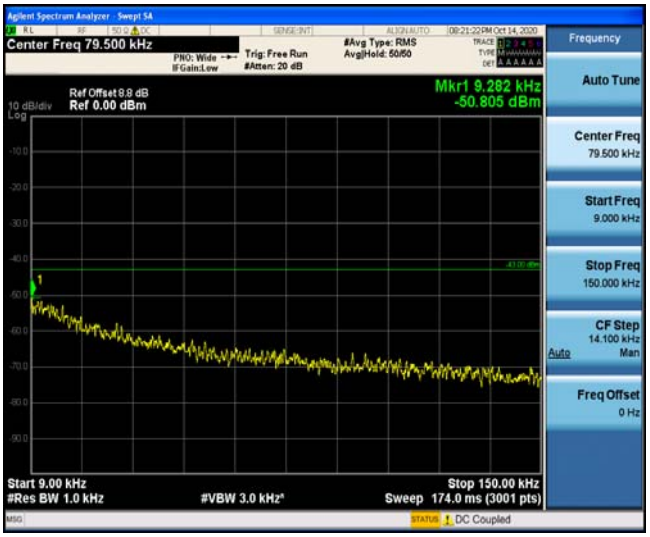
Band25_20MHz_16QAM_26140_1RB#0

Band25_20MHz_16QAM_26140_1RB#0

Band25_20MHz_16QAM_26140_1RB#0

Band25_20MHz_16QAM_26140_1RB#0

Band25_20MHz_16QAM_26365_1RB#0



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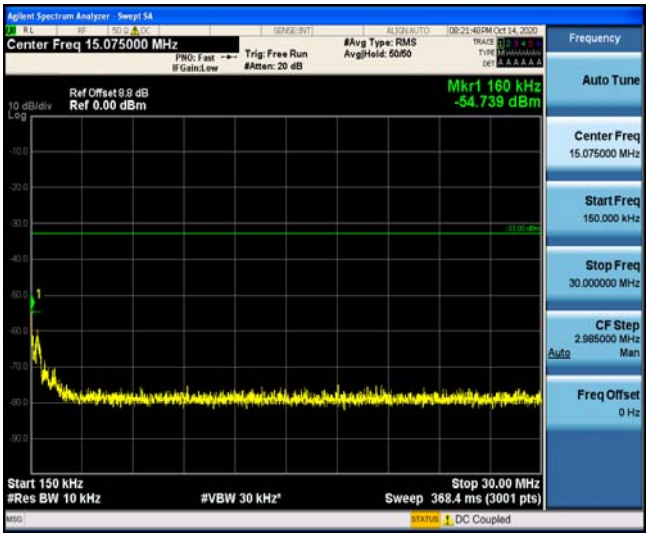
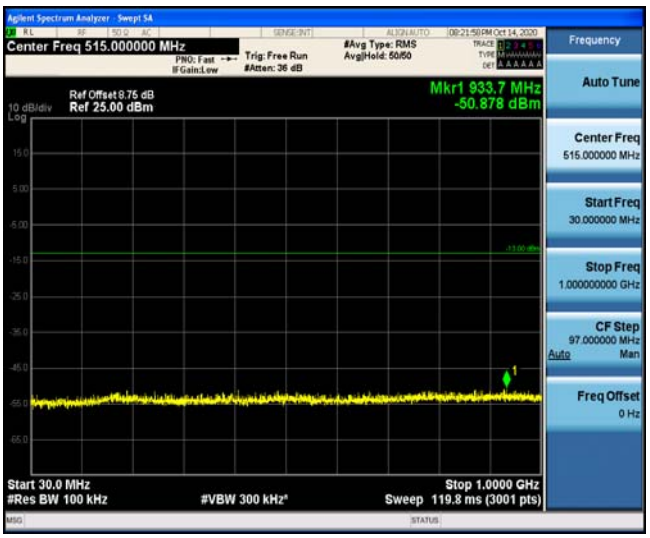


Band25_20MHz_16QAM_26365_1RB#0



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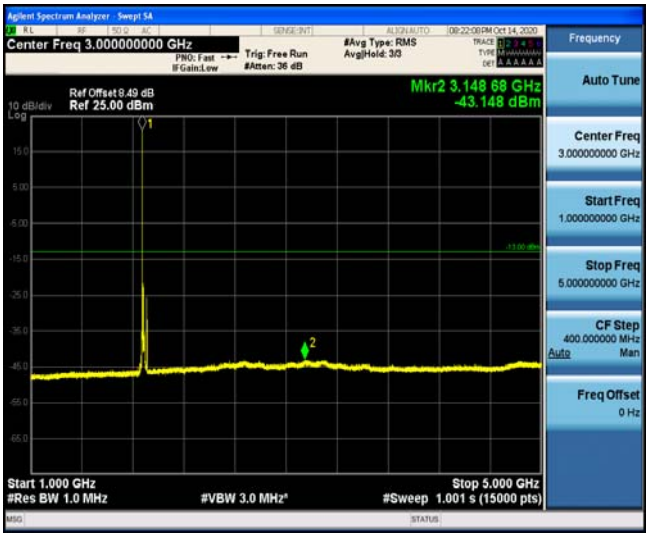
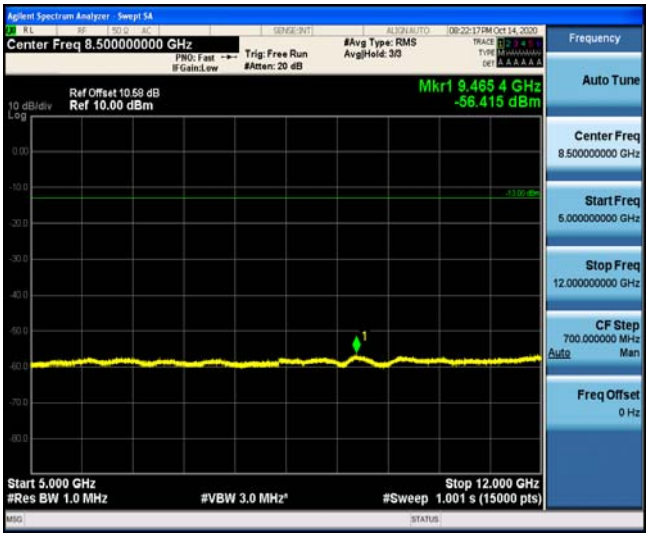
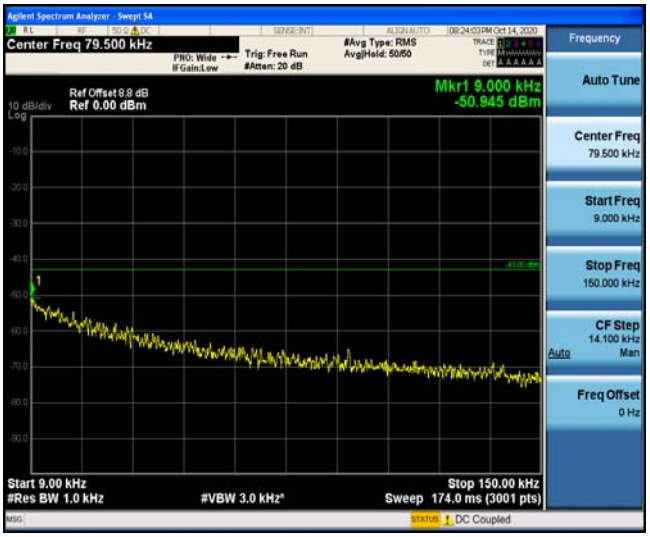


Band25_20MHz_16QAM_26365_1RB#0



Band25_20MHz_16QAM_26365_1RB#0

Band25_20MHz_16QAM_26590_1RB#0



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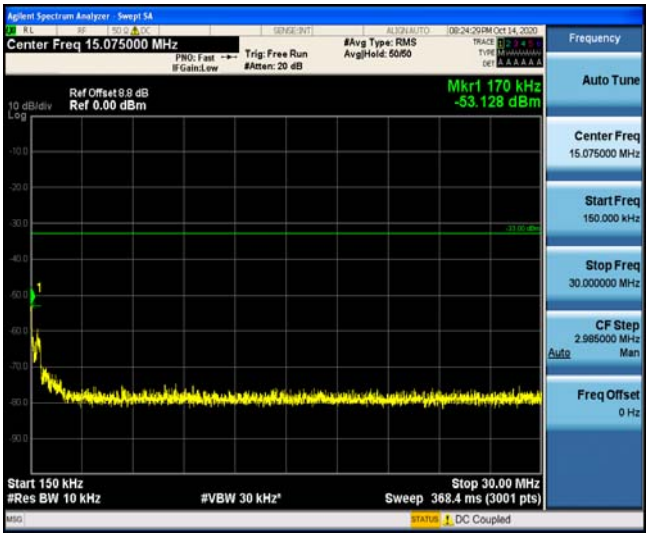

Band25_20MHz_16QAM_26590_1RB#0

Band25_20MHz_16QAM_26590_1RB#0

Band25_20MHz_16QAM_26590_1RB#0

Band25_20MHz_16QAM_26590_1RB#0

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	1.9	0.001027	± 2.5	PASS
		VN	TN	-1.98	-0.001070	± 2.5	PASS
		VH	TN	1.1	0.000594	± 2.5	PASS
	MCH	VL	TN	-0.64	-0.000340	± 2.5	PASS
		VN	TN	1.46	0.000776	± 2.5	PASS
		VH	TN	-1.48	-0.000786	± 2.5	PASS
	HCH	VL	TN	0.98	0.000512	± 2.5	PASS
		VN	TN	1.39	0.000726	± 2.5	PASS
		VH	TN	1.76	0.000919	± 2.5	PASS
16QAM	LCH	VL	TN	2.63	0.001421	± 2.5	PASS
		VN	TN	-0.81	-0.000438	± 2.5	PASS
		VH	TN	3.06	0.001653	± 2.5	PASS
	MCH	VL	TN	1.47	0.000781	± 2.5	PASS
		VN	TN	-0.22	-0.000117	± 2.5	PASS
		VH	TN	4.21	0.002236	± 2.5	PASS
	HCH	VL	TN	3.86	0.002022	± 2.5	PASS
		VN	TN	2.34	0.001226	± 2.5	PASS
		VH	TN	3.56	0.001865	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.61	0.002491	± 2.5	PASS
		VN	-20	4.74	0.002561	± 2.5	PASS
		VN	-10	2.81	0.001518	± 2.5	PASS
		VN	0	-2	-0.001081	± 2.5	PASS
		VN	10	2.41	0.001302	± 2.5	PASS
		VN	20	-1.05	-0.000567	± 2.5	PASS
		VN	30	1.22	0.000659	± 2.5	PASS
		VN	40	-0.26	-0.000140	± 2.5	PASS
		VN	50	0.78	0.000421	± 2.5	PASS

	MCH	VN	-30	1.21	0.000643	± 2.5	PASS
		VN	-20	0.48	0.000255	± 2.5	PASS
		VN	-10	3.52	0.001870	± 2.5	PASS
		VN	0	-1.3	-0.000691	± 2.5	PASS
		VN	10	-1.3	-0.000691	± 2.5	PASS
		VN	20	2.85	0.001514	± 2.5	PASS
		VN	30	0.95	0.000505	± 2.5	PASS
		VN	40	-1.24	-0.000659	± 2.5	PASS
		VN	50	4.01	0.002130	± 2.5	PASS
	HCH	VN	-30	0.86	0.000449	± 2.5	PASS
		VN	-20	4.43	0.002314	± 2.5	PASS
		VN	-10	-1.79	-0.000935	± 2.5	PASS
		VN	0	-1.73	-0.000904	± 2.5	PASS
		VN	10	0.17	0.000089	± 2.5	PASS
		VN	20	0.14	0.000073	± 2.5	PASS
		VN	30	2.1	0.001097	± 2.5	PASS
		VN	40	1.5	0.000784	± 2.5	PASS
		VN	50	0.05	0.000026	± 2.5	PASS
16QAM	LCH	VN	-30	4.67	0.002523	± 2.5	PASS
		VN	-20	2.71	0.001464	± 2.5	PASS
		VN	-10	2.81	0.001518	± 2.5	PASS
		VN	0	-0.99	-0.000535	± 2.5	PASS
		VN	10	-1.84	-0.000994	± 2.5	PASS
		VN	20	-1.01	-0.000546	± 2.5	PASS
		VN	30	0.85	0.000459	± 2.5	PASS
		VN	40	4.65	0.002513	± 2.5	PASS
		VN	50	-1.76	-0.000951	± 2.5	PASS
	MCH	VN	-30	-1.92	-0.001020	± 2.5	PASS
		VN	-20	0.75	0.000398	± 2.5	PASS
		VN	-10	3.72	0.001976	± 2.5	PASS
		VN	0	3.01	0.001599	± 2.5	PASS
		VN	10	-0.78	-0.000414	± 2.5	PASS
		VN	20	2.94	0.001562	± 2.5	PASS
		VN	30	1.69	0.000898	± 2.5	PASS
		VN	40	1.72	0.000914	± 2.5	PASS
		VN	50	-1.17	-0.000622	± 2.5	PASS
	HCH	VN	-30	3.57	0.001865	± 2.5	PASS
		VN	-20	0.98	0.000512	± 2.5	PASS
		VN	-10	2.36	0.001233	± 2.5	PASS
		VN	0	-0.93	-0.000486	± 2.5	PASS
		VN	10	1.71	0.000893	± 2.5	PASS

		VN	20	2.12	0.001107	± 2.5	PASS
		VN	30	1.04	0.000543	± 2.5	PASS
		VN	40	2.69	0.001405	± 2.5	PASS
		VN	50	-1	-0.000522	± 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	-1.69	-0.000913	± 2.5	PASS
		VN	TN	-1.29	-0.000697	± 2.5	PASS
		VH	TN	2.34	0.001264	± 2.5	PASS
	MCH	VL	TN	-0.22	-0.000117	± 2.5	PASS
		VN	TN	2.04	0.001084	± 2.5	PASS
		VH	TN	3.61	0.001918	± 2.5	PASS
	HCH	VL	TN	4.39	0.002294	± 2.5	PASS
		VN	TN	-0.8	-0.000418	± 2.5	PASS
		VH	TN	1.66	0.000868	± 2.5	PASS
16QAM	LCH	VL	TN	4.31	0.002328	± 2.5	PASS
		VN	TN	0.65	0.000351	± 2.5	PASS
		VH	TN	-0.65	-0.000351	± 2.5	PASS
	MCH	VL	TN	1.76	0.000935	± 2.5	PASS
		VN	TN	3.57	0.001896	± 2.5	PASS
		VH	TN	4.29	0.002279	± 2.5	PASS
	HCH	VL	TN	4.57	0.002388	± 2.5	PASS
		VN	TN	-0.37	-0.000193	± 2.5	PASS
		VH	TN	-1.73	-0.000904	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.81	0.000437	± 2.5	PASS
		VN	-20	0.41	0.000221	± 2.5	PASS
		VN	-10	3.28	0.001772	± 2.5	PASS
		VN	0	3.61	0.001950	± 2.5	PASS
		VN	10	0.7	0.000378	± 2.5	PASS
		VN	20	2.55	0.001377	± 2.5	PASS
		VN	30	4.53	0.002447	± 2.5	PASS
		VN	40	-0.36	-0.000194	± 2.5	PASS
		VN	50	2.84	0.001534	± 2.5	PASS
	MCH	VN	-30	-1.58	-0.000839	± 2.5	PASS

		VN	-20	4.17	0.002215	± 2.5	PASS
		VN	-10	0.21	0.000112	± 2.5	PASS
		VN	0	3.77	0.002003	± 2.5	PASS
		VN	10	-1.27	-0.000675	± 2.5	PASS
		VN	20	1.87	0.000993	± 2.5	PASS
		VN	30	0.71	0.000377	± 2.5	PASS
		VN	40	-0.6	-0.000319	± 2.5	PASS
		VN	50	0.24	0.000127	± 2.5	PASS
	HCH	VN	-30	0	0.000000	± 2.5	PASS
		VN	-20	3.87	0.002022	± 2.5	PASS
		VN	-10	-0.51	-0.000267	± 2.5	PASS
		VN	0	-0.89	-0.000465	± 2.5	PASS
		VN	10	4.5	0.002352	± 2.5	PASS
		VN	20	4.46	0.002331	± 2.5	PASS
		VN	30	4.99	0.002608	± 2.5	PASS
		VN	40	3.86	0.002017	± 2.5	PASS
		VN	50	2.38	0.001244	± 2.5	PASS
16QAM	LCH	VN	-30	4.09	0.002209	± 2.5	PASS
		VN	-20	0.06	0.000032	± 2.5	PASS
		VN	-10	-0.63	-0.000340	± 2.5	PASS
		VN	0	-0.29	-0.000157	± 2.5	PASS
		VN	10	1.18	0.000637	± 2.5	PASS
		VN	20	4.61	0.002490	± 2.5	PASS
		VN	30	0.7	0.000378	± 2.5	PASS
		VN	40	-0.88	-0.000475	± 2.5	PASS
		VN	50	-0.6	-0.000324	± 2.5	PASS
	MCH	VN	-30	-1.44	-0.000765	± 2.5	PASS
		VN	-20	0.36	0.000191	± 2.5	PASS
		VN	-10	-0.91	-0.000483	± 2.5	PASS
		VN	0	-1.29	-0.000685	± 2.5	PASS
		VN	10	1.89	0.001004	± 2.5	PASS
		VN	20	1.3	0.000691	± 2.5	PASS
		VN	30	-0.41	-0.000218	± 2.5	PASS
		VN	40	0.3	0.000159	± 2.5	PASS
		VN	50	2.03	0.001078	± 2.5	PASS
	HCH	VN	-30	3.23	0.001688	± 2.5	PASS
		VN	-20	0.45	0.000235	± 2.5	PASS
		VN	-10	2.83	0.001479	± 2.5	PASS
		VN	0	4.17	0.002179	± 2.5	PASS
		VN	10	-1.61	-0.000841	± 2.5	PASS
		VN	20	-1.01	-0.000528	± 2.5	PASS

		VN	30	-0.56	-0.000293	± 2.5	PASS
		VN	40	1.89	0.000988	± 2.5	PASS
		VN	50	-0.53	-0.000277	± 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	2.72	0.001468	± 2.5	PASS
		VN	TN	-1.65	-0.000891	± 2.5	PASS
		VH	TN	0.87	0.000470	± 2.5	PASS
	MCH	VL	TN	-0.48	-0.000255	± 2.5	PASS
		VN	TN	2.72	0.001445	± 2.5	PASS
		VH	TN	2.15	0.001142	± 2.5	PASS
	HCH	VL	TN	-0.96	-0.000502	± 2.5	PASS
		VN	TN	2.49	0.001302	± 2.5	PASS
		VH	TN	3.63	0.001898	± 2.5	PASS
16QAM	LCH	VL	TN	-1.13	-0.000610	± 2.5	PASS
		VN	TN	0.47	0.000254	± 2.5	PASS
		VH	TN	1.58	0.000853	± 2.5	PASS
	MCH	VL	TN	-1.73	-0.000919	± 2.5	PASS
		VN	TN	4.89	0.002598	± 2.5	PASS
		VH	TN	3.31	0.001758	± 2.5	PASS
	HCH	VL	TN	4.71	0.002463	± 2.5	PASS
		VN	TN	3.37	0.001762	± 2.5	PASS
		VH	TN	4.84	0.002531	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.65	0.000351	± 2.5	PASS
		VN	-20	1.17	0.000632	± 2.5	PASS
		VN	-10	1.78	0.000961	± 2.5	PASS
		VN	0	1.9	0.001026	± 2.5	PASS
		VN	10	0.71	0.000383	± 2.5	PASS
		VN	20	3.96	0.002138	± 2.5	PASS
		VN	30	-1.55	-0.000837	± 2.5	PASS
		VN	40	2.17	0.001171	± 2.5	PASS
		VN	50	-0.25	-0.000135	± 2.5	PASS
	MCH	VN	-30	2.28	0.001211	± 2.5	PASS
		VN	-20	2.81	0.001493	± 2.5	PASS

		VN	-10	1.02	0.000542	± 2.5	PASS
		VN	0	4.28	0.002274	± 2.5	PASS
		VN	10	-0.67	-0.000356	± 2.5	PASS
		VN	20	-0.04	-0.000021	± 2.5	PASS
		VN	30	0.37	0.000197	± 2.5	PASS
		VN	40	4.57	0.002428	± 2.5	PASS
		VN	50	1.74	0.000924	± 2.5	PASS
	HCH	VN	-30	0.38	0.000199	± 2.5	PASS
		VN	-20	3.28	0.001715	± 2.5	PASS
		VN	-10	1.39	0.000727	± 2.5	PASS
		VN	0	0.05	0.000026	± 2.5	PASS
		VN	10	-0.05	-0.000026	± 2.5	PASS
		VN	20	4.27	0.002233	± 2.5	PASS
		VN	30	-0.09	-0.000047	± 2.5	PASS
		VN	40	4.02	0.002102	± 2.5	PASS
		VN	50	2.07	0.001082	± 2.5	PASS
16QAM	LCH	VN	-30	0.43	0.000232	± 2.5	PASS
		VN	-20	-1.29	-0.000696	± 2.5	PASS
		VN	-10	0.58	0.000313	± 2.5	PASS
		VN	0	3.75	0.002024	± 2.5	PASS
		VN	10	2.22	0.001198	± 2.5	PASS
		VN	20	-1.67	-0.000901	± 2.5	PASS
		VN	30	1.23	0.000664	± 2.5	PASS
		VN	40	1.12	0.000605	± 2.5	PASS
		VN	50	4.42	0.002386	± 2.5	PASS
	MCH	VN	-30	4.73	0.002513	± 2.5	PASS
		VN	-20	4.79	0.002544	± 2.5	PASS
		VN	-10	-0.22	-0.000117	± 2.5	PASS
		VN	0	3.05	0.001620	± 2.5	PASS
		VN	10	2.74	0.001456	± 2.5	PASS
		VN	20	2.78	0.001477	± 2.5	PASS
		VN	30	2.02	0.001073	± 2.5	PASS
		VN	40	-1.14	-0.000606	± 2.5	PASS
		VN	50	-1.85	-0.000983	± 2.5	PASS
	HCH	VN	-30	1.53	0.000800	± 2.5	PASS
		VN	-20	0.2	0.000105	± 2.5	PASS
		VN	-10	3.68	0.001924	± 2.5	PASS
		VN	0	1.14	0.000596	± 2.5	PASS
		VN	10	2.63	0.001375	± 2.5	PASS
		VN	20	-0.45	-0.000235	± 2.5	PASS
		VN	30	2.91	0.001522	± 2.5	PASS

		VN	40	1.4	0.000732	± 2.5	PASS
		VN	50	0.15	0.000078	± 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	0.4	0.000216	± 2.5	PASS
		VN	TN	4.44	0.002394	± 2.5	PASS
		VH	TN	3.2	0.001725	± 2.5	PASS
	MCH	VL	TN	-1.79	-0.000951	± 2.5	PASS
		VN	TN	3.9	0.002072	± 2.5	PASS
		VH	TN	4.36	0.002316	± 2.5	PASS
	HCH	VL	TN	4.8	0.002513	± 2.5	PASS
		VN	TN	1.49	0.000780	± 2.5	PASS
		VH	TN	3.34	0.001749	± 2.5	PASS
16QAM	LCH	VL	TN	3.45	0.001860	± 2.5	PASS
		VN	TN	3.87	0.002086	± 2.5	PASS
		VH	TN	-1.64	-0.000884	± 2.5	PASS
	MCH	VL	TN	3.48	0.001849	± 2.5	PASS
		VN	TN	2.83	0.001503	± 2.5	PASS
		VH	TN	-0.46	-0.000244	± 2.5	PASS
	HCH	VL	TN	1.06	0.000555	± 2.5	PASS
		VN	TN	0.09	0.000047	± 2.5	PASS
		VH	TN	1.44	0.000754	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.42	0.001305	± 2.5	PASS
		VN	-20	4.34	0.002340	± 2.5	PASS
		VN	-10	1.14	0.000615	± 2.5	PASS
		VN	0	-0.56	-0.000302	± 2.5	PASS
		VN	10	0.6	0.000323	± 2.5	PASS
		VN	20	-0.22	-0.000119	± 2.5	PASS
		VN	30	1.67	0.000900	± 2.5	PASS
		VN	40	-1.96	-0.001057	± 2.5	PASS
		VN	50	3.71	0.002000	± 2.5	PASS
	MCH	VN	-30	4.06	0.002157	± 2.5	PASS
		VN	-20	4.97	0.002640	± 2.5	PASS
		VN	-10	1.6	0.000850	± 2.5	PASS

		VN	0	0.57	0.000303	± 2.5	PASS
		VN	10	1.57	0.000834	± 2.5	PASS
		VN	20	-1.76	-0.000935	± 2.5	PASS
		VN	30	3.55	0.001886	± 2.5	PASS
		VN	40	-0.94	-0.000499	± 2.5	PASS
		VN	50	1.31	0.000696	± 2.5	PASS
	HCH	VN	-30	4.58	0.002398	± 2.5	PASS
		VN	-20	3.21	0.001681	± 2.5	PASS
		VN	-10	3.84	0.002010	± 2.5	PASS
		VN	0	0.03	0.000016	± 2.5	PASS
		VN	10	-0.81	-0.000424	± 2.5	PASS
		VN	20	-1.56	-0.000817	± 2.5	PASS
		VN	30	-1.26	-0.000660	± 2.5	PASS
		VN	40	4.87	0.002550	± 2.5	PASS
		VN	50	-0.91	-0.000476	± 2.5	PASS
16QAM	LCH	VN	-30	4.16	0.002243	± 2.5	PASS
		VN	-20	0.75	0.000404	± 2.5	PASS
		VN	-10	2.3	0.001240	± 2.5	PASS
		VN	0	-0.71	-0.000383	± 2.5	PASS
		VN	10	-0.03	-0.000016	± 2.5	PASS
		VN	20	0.68	0.000367	± 2.5	PASS
		VN	30	2.26	0.001218	± 2.5	PASS
		VN	40	1.67	0.000900	± 2.5	PASS
		VN	50	4.6	0.002480	± 2.5	PASS
	MCH	VN	-30	3.87	0.002056	± 2.5	PASS
		VN	-20	0.45	0.000239	± 2.5	PASS
		VN	-10	-0.13	-0.000069	± 2.5	PASS
		VN	0	2.95	0.001567	± 2.5	PASS
		VN	10	0.31	0.000165	± 2.5	PASS
		VN	20	-0.81	-0.000430	± 2.5	PASS
		VN	30	-0.62	-0.000329	± 2.5	PASS
		VN	40	0.78	0.000414	± 2.5	PASS
		VN	50	-0.93	-0.000494	± 2.5	PASS
	HCH	VN	-30	0.22	0.000115	± 2.5	PASS
		VN	-20	-0.55	-0.000288	± 2.5	PASS
		VN	-10	-1.84	-0.000963	± 2.5	PASS
		VN	0	2.37	0.001241	± 2.5	PASS
		VN	10	0.4	0.000209	± 2.5	PASS
		VN	20	3.29	0.001723	± 2.5	PASS
		VN	30	2.35	0.001230	± 2.5	PASS
		VN	40	1.32	0.000691	± 2.5	PASS

		VN	50	-1.61	-0.000843	± 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	4.01	0.002159	± 2.5	PASS
		VN	TN	0.95	0.000511	± 2.5	PASS
		VH	TN	0.19	0.000102	± 2.5	PASS
	MCH	VL	TN	1.43	0.000760	± 2.5	PASS
		VN	TN	-1.23	-0.000653	± 2.5	PASS
		VH	TN	4.12	0.002189	± 2.5	PASS
	HCH	VL	TN	1.39	0.000729	± 2.5	PASS
		VN	TN	0.46	0.000241	± 2.5	PASS
		VH	TN	0.24	0.000126	± 2.5	PASS
16QAM	LCH	VL	TN	3.6	0.001938	± 2.5	PASS
		VN	TN	0.9	0.000485	± 2.5	PASS
		VH	TN	1.22	0.000657	± 2.5	PASS
	MCH	VL	TN	4.3	0.002284	± 2.5	PASS
		VN	TN	3.01	0.001599	± 2.5	PASS
		VH	TN	4.91	0.002608	± 2.5	PASS
	HCH	VL	TN	-1.36	-0.000713	± 2.5	PASS
		VN	TN	3.87	0.002029	± 2.5	PASS
		VH	TN	-0.72	-0.000377	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.81	0.002051	± 2.5	PASS
		VN	-20	0.04	0.000022	± 2.5	PASS
		VN	-10	2.48	0.001335	± 2.5	PASS
		VN	0	4.98	0.002681	± 2.5	PASS
		VN	10	-0.42	-0.000226	± 2.5	PASS
		VN	20	4.68	0.002520	± 2.5	PASS
		VN	30	0.08	0.000043	± 2.5	PASS
		VN	40	1.03	0.000555	± 2.5	PASS
		VN	50	-0.77	-0.000415	± 2.5	PASS
	MCH	VN	-30	2.97	0.001578	± 2.5	PASS
		VN	-20	3.65	0.001939	± 2.5	PASS
		VN	-10	-0.25	-0.000133	± 2.5	PASS
		VN	0	-1.64	-0.000871	± 2.5	PASS

		VN	10	3.95	0.002098	± 2.5	PASS
		VN	20	4.12	0.002189	± 2.5	PASS
		VN	30	3.11	0.001652	± 2.5	PASS
		VN	40	-1.33	-0.000707	± 2.5	PASS
		VN	50	2.51	0.001333	± 2.5	PASS
	HCH	VN	-30	3.86	0.002024	± 2.5	PASS
		VN	-20	0.11	0.000058	± 2.5	PASS
		VN	-10	3.65	0.001913	± 2.5	PASS
		VN	0	-0.11	-0.000058	± 2.5	PASS
		VN	10	0	0.000000	± 2.5	PASS
		VN	20	3.39	0.001777	± 2.5	PASS
		VN	30	0.39	0.000204	± 2.5	PASS
		VN	40	-0.2	-0.000105	± 2.5	PASS
		VN	50	3.4	0.001782	± 2.5	PASS
16QAM	LCH	VN	-30	3.15	0.001696	± 2.5	PASS
		VN	-20	3.62	0.001949	± 2.5	PASS
		VN	-10	4.1	0.002207	± 2.5	PASS
		VN	0	1.14	0.000614	± 2.5	PASS
		VN	10	1.43	0.000770	± 2.5	PASS
		VN	20	0.78	0.000420	± 2.5	PASS
		VN	30	0.52	0.000280	± 2.5	PASS
		VN	40	2.77	0.001491	± 2.5	PASS
		VN	50	1.26	0.000678	± 2.5	PASS
	MCH	VN	-30	3.11	0.001652	± 2.5	PASS
		VN	-20	1.05	0.000558	± 2.5	PASS
		VN	-10	2.25	0.001195	± 2.5	PASS
		VN	0	0.3	0.000159	± 2.5	PASS
		VN	10	3.52	0.001870	± 2.5	PASS
		VN	20	2.33	0.001238	± 2.5	PASS
		VN	30	-0.12	-0.000064	± 2.5	PASS
		VN	40	-0.24	-0.000127	± 2.5	PASS
		VN	50	0.49	0.000260	± 2.5	PASS
	HCH	VN	-30	0.15	0.000079	± 2.5	PASS
		VN	-20	4.61	0.002417	± 2.5	PASS
		VN	-10	-0.24	-0.000126	± 2.5	PASS
		VN	0	-1.01	-0.000529	± 2.5	PASS
		VN	10	-0.24	-0.000126	± 2.5	PASS
		VN	20	0.8	0.000419	± 2.5	PASS
		VN	30	-1.88	-0.000986	± 2.5	PASS
		VN	40	-2	-0.001048	± 2.5	PASS
		VN	50	-0.89	-0.000467	± 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	1.51	0.000812	± 2.5	PASS
		VN	TN	-0.45	-0.000242	± 2.5	PASS
		VH	TN	4.89	0.002629	± 2.5	PASS
	MCH	VL	TN	4.69	0.002491	± 2.5	PASS
		VN	TN	-1.4	-0.000744	± 2.5	PASS
		VH	TN	-1.35	-0.000717	± 2.5	PASS
	HCH	VL	TN	3.47	0.001822	± 2.5	PASS
		VN	TN	-0.84	-0.000441	± 2.5	PASS
		VH	TN	2.12	0.001113	± 2.5	PASS
16QAM	LCH	VL	TN	0.9	0.000484	± 2.5	PASS
		VN	TN	-1.45	-0.000780	± 2.5	PASS
		VH	TN	1.42	0.000763	± 2.5	PASS
	MCH	VL	TN	4.57	0.002428	± 2.5	PASS
		VN	TN	0.51	0.000271	± 2.5	PASS
		VH	TN	0.16	0.000085	± 2.5	PASS
	HCH	VL	TN	2.37	0.001244	± 2.5	PASS
		VN	TN	3.57	0.001874	± 2.5	PASS
		VH	TN	4.09	0.002147	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.31	0.002317	± 2.5	PASS
		VN	-20	3.37	0.001812	± 2.5	PASS
		VN	-10	-1.13	-0.000608	± 2.5	PASS
		VN	0	2.53	0.001360	± 2.5	PASS
		VN	10	4.94	0.002656	± 2.5	PASS
		VN	20	0.36	0.000194	± 2.5	PASS
		VN	30	-1.31	-0.000704	± 2.5	PASS
		VN	40	-1.8	-0.000968	± 2.5	PASS
		VN	50	4.25	0.002285	± 2.5	PASS
	MCH	VN	-30	-1.92	-0.001021	± 2.5	PASS
		VN	-20	1.62	0.000862	± 2.5	PASS
		VN	-10	1.51	0.000803	± 2.5	PASS
		VN	0	1.62	0.000862	± 2.5	PASS
		VN	10	-1.61	-0.000856	± 2.5	PASS

		VN	20	2.95	0.001569	± 2.5	PASS
		VN	30	4.81	0.002559	± 2.5	PASS
		VN	40	3.42	0.001819	± 2.5	PASS
		VN	50	3.54	0.001883	± 2.5	PASS
	HCH	VN	-30	4.79	0.002514	± 2.5	PASS
		VN	-20	-1.89	-0.000992	± 2.5	PASS
		VN	-10	4.07	0.002136	± 2.5	PASS
		VN	0	1.83	0.000961	± 2.5	PASS
		VN	10	3.88	0.002037	± 2.5	PASS
		VN	20	-1.04	-0.000546	± 2.5	PASS
		VN	30	-0.53	-0.000278	± 2.5	PASS
		VN	40	0.12	0.000063	± 2.5	PASS
		VN	50	-0.02	-0.000010	± 2.5	PASS
16QAM	LCH	VN	-30	2.36	0.001269	± 2.5	PASS
		VN	-20	2.01	0.001081	± 2.5	PASS
		VN	-10	0.86	0.000462	± 2.5	PASS
		VN	0	1.36	0.000731	± 2.5	PASS
		VN	10	-0.96	-0.000516	± 2.5	PASS
		VN	20	2.04	0.001097	± 2.5	PASS
		VN	30	4.28	0.002301	± 2.5	PASS
		VN	40	1.17	0.000629	± 2.5	PASS
		VN	50	3.43	0.001844	± 2.5	PASS
	MCH	VN	-30	0.23	0.000122	± 2.5	PASS
		VN	-20	3.04	0.001615	± 2.5	PASS
		VN	-10	2.69	0.001429	± 2.5	PASS
		VN	0	2.82	0.001498	± 2.5	PASS
		VN	10	-0.13	-0.000069	± 2.5	PASS
		VN	20	3.97	0.002109	± 2.5	PASS
		VN	30	-1.79	-0.000951	± 2.5	PASS
		VN	40	3.69	0.001960	± 2.5	PASS
		VN	50	0.25	0.000133	± 2.5	PASS
	HCH	VN	-30	2.05	0.001076	± 2.5	PASS
		VN	-20	2.03	0.001066	± 2.5	PASS
		VN	-10	4.89	0.002567	± 2.5	PASS
		VN	0	3.26	0.001711	± 2.5	PASS
		VN	10	2.49	0.001307	± 2.5	PASS
		VN	20	1.71	0.000898	± 2.5	PASS
		VN	30	4.52	0.002373	± 2.5	PASS
		VN	40	-0.21	-0.000110	± 2.5	PASS
		VN	50	-1.13	-0.000593	± 2.5	PASS