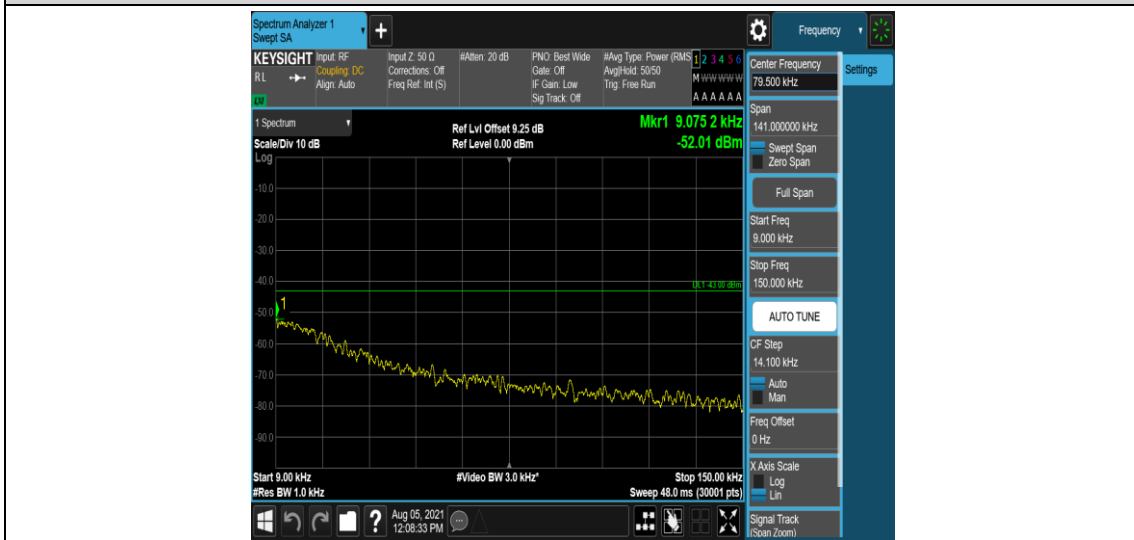




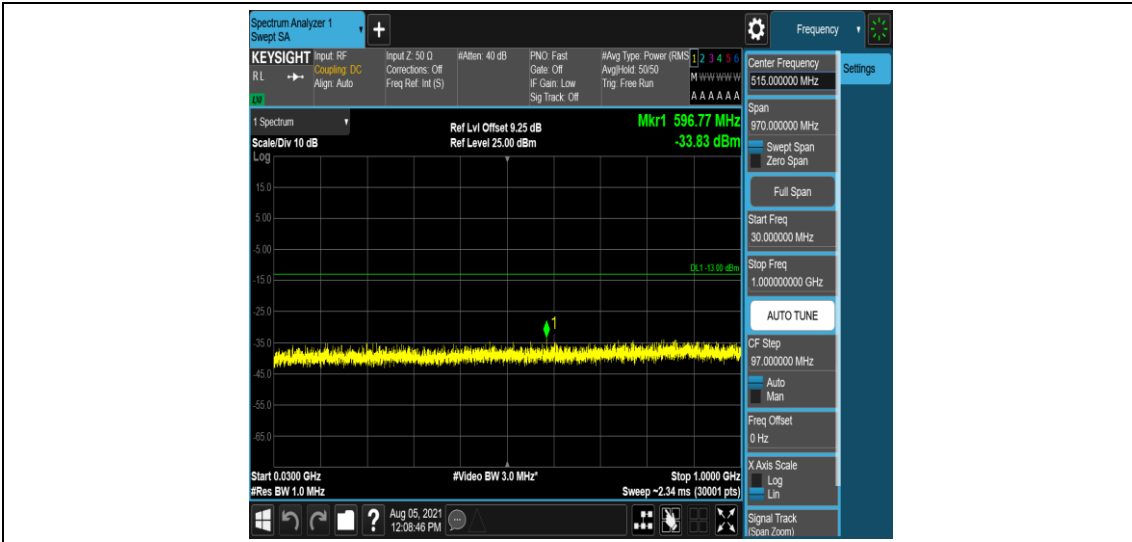
Band4-20MHz-QPSK-20175-1-0-Low-12000-26500--51.68-PASS



Band4-20MHz-QPSK-20300-1-0-High-0.009-0.15--52.01-PASS



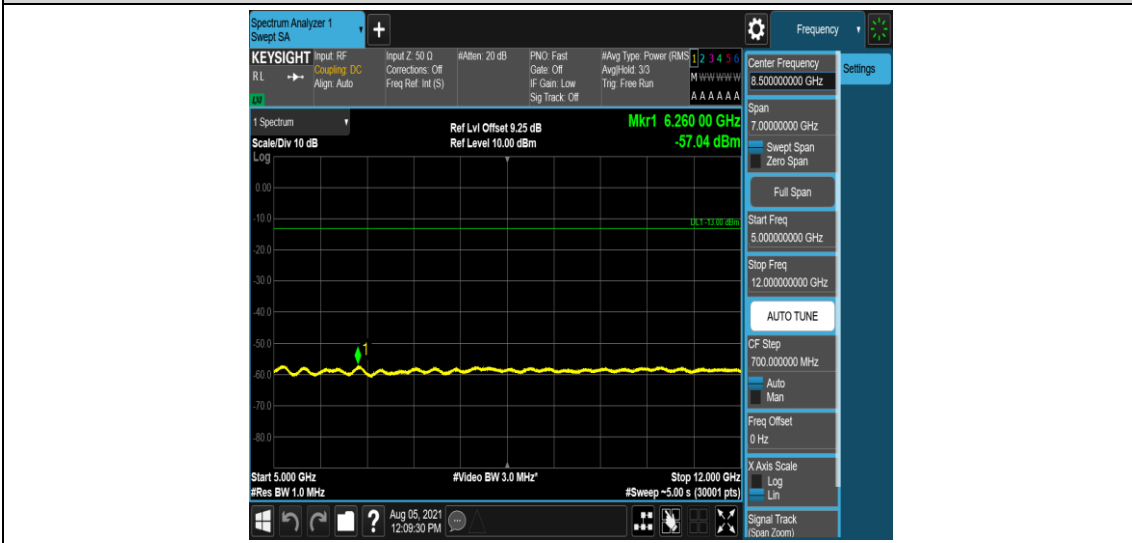
Band4-20MHz-QPSK-20300-1-0-High-0.15-30--50.14-PASS



Band4-20MHz-QPSK-20300-1-0-High-30-1000--33.83-PASS



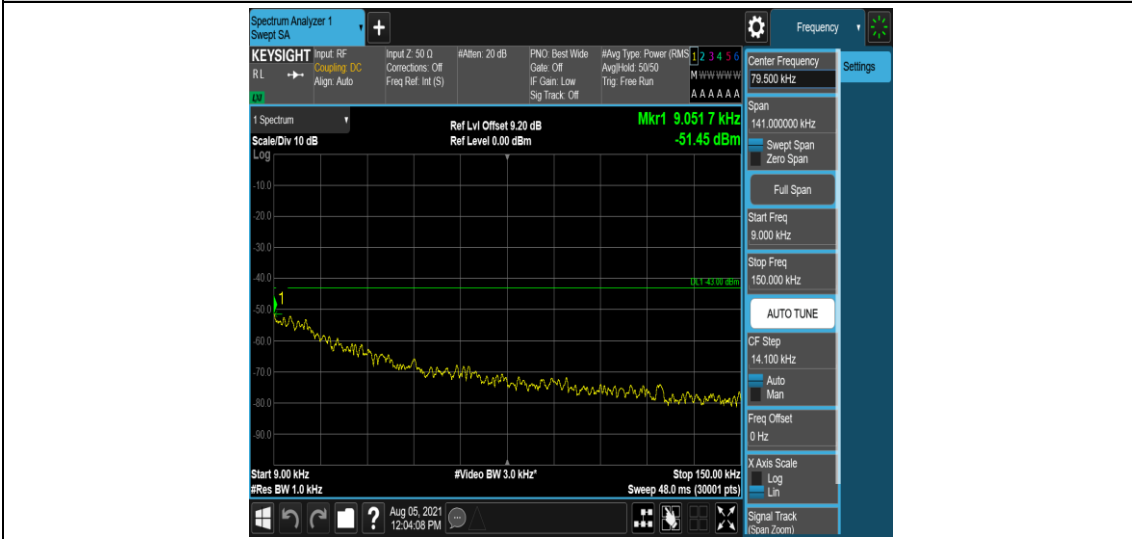
Band4-20MHz-QPSK-20300-1-0-High-1000-5000--35.77-PASS



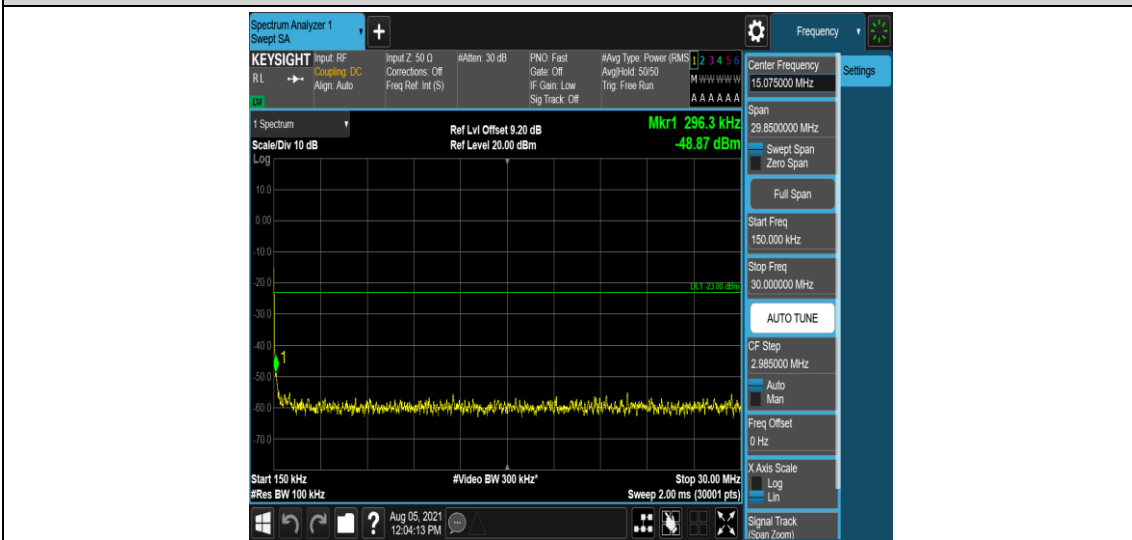
Band4-20MHz-QPSK-20300-1-0-High-5000-12000--57.04-PASS



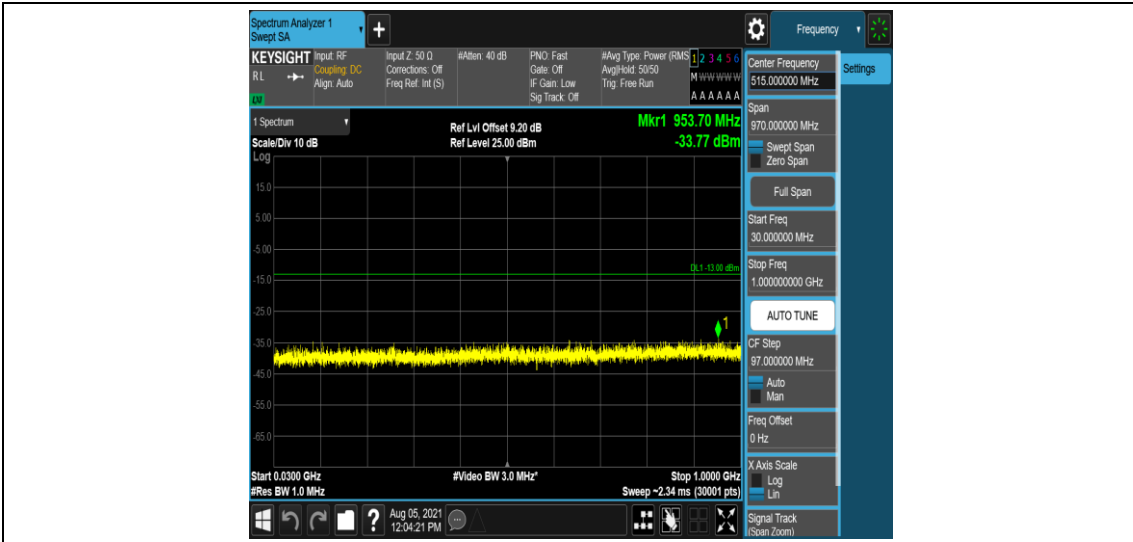
Band4-20MHz-QPSK-20300-1-0-High-12000-26500--51.59-PASS



Band4-20MHz-16QAM-20050-1-0-Low-0.009-0.15--51.46-PASS



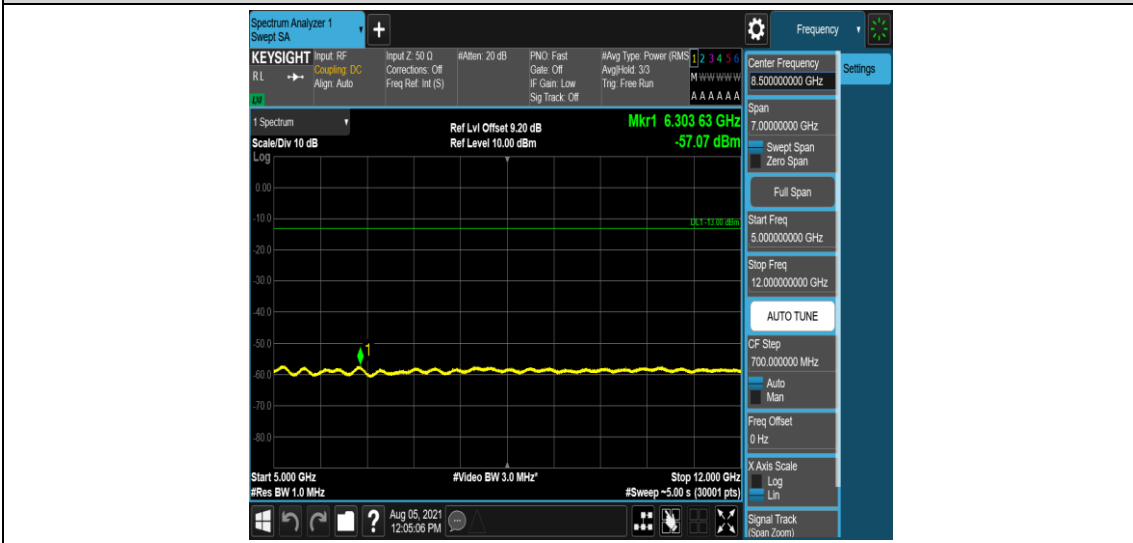
Band4-20MHz-16QAM-20050-1-0-Low-0.15-30--48.87-PASS



Band4-20MHz-16QAM-20050-1-0-Low-30-1000--33.77-PASS

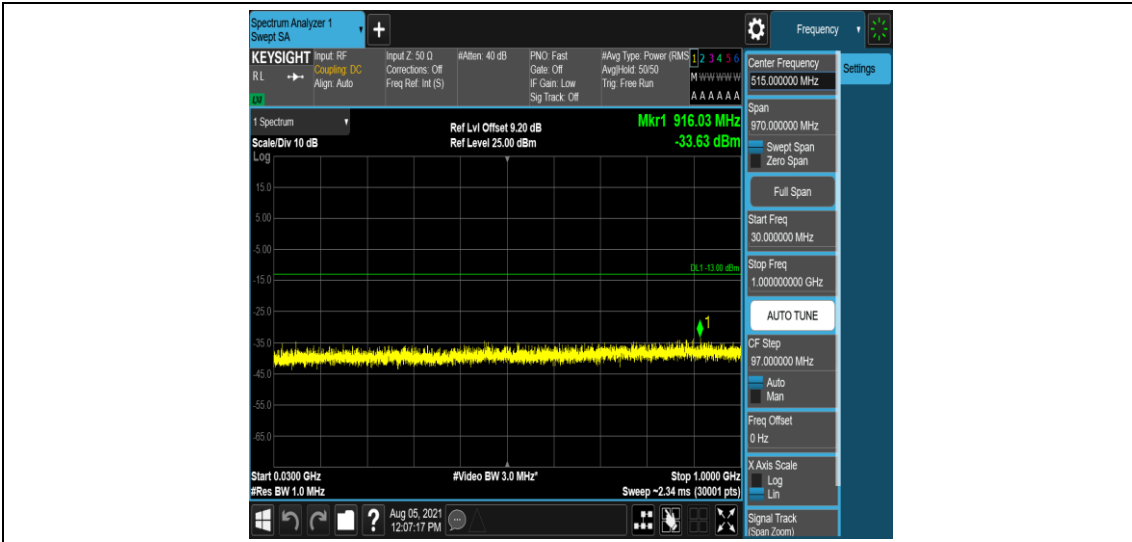


Band4-20MHz-16QAM-20050-1-0-Low-1000-5000--35.93-PASS



Band4-20MHz-16QAM-20050-1-0-Low-5000-12000--57.07-PASS

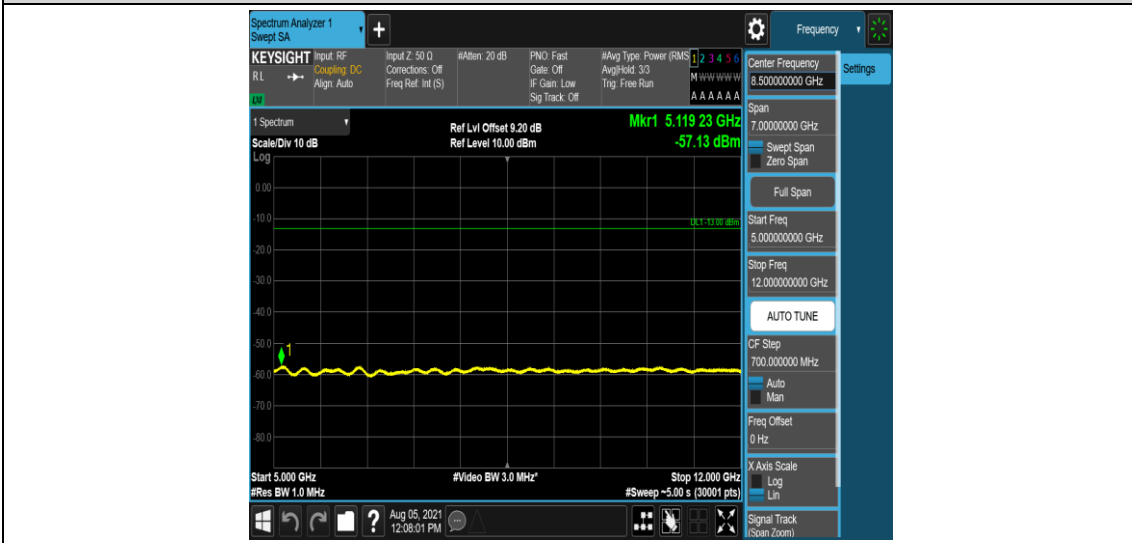




Band4-20MHz-16QAM-20175-1-0-Low-30-1000--33.63-PASS



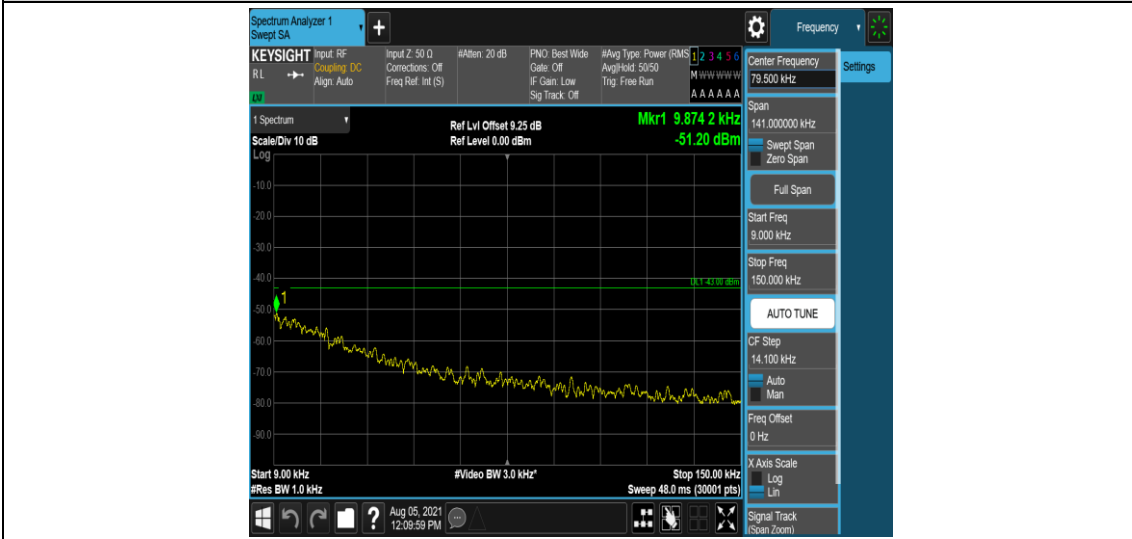
Band4-20MHz-16QAM-20175-1-0-Low-1000-5000--35.8-PASS



Band4-20MHz-16QAM-20175-1-0-Low-5000-12000--57.13-PASS



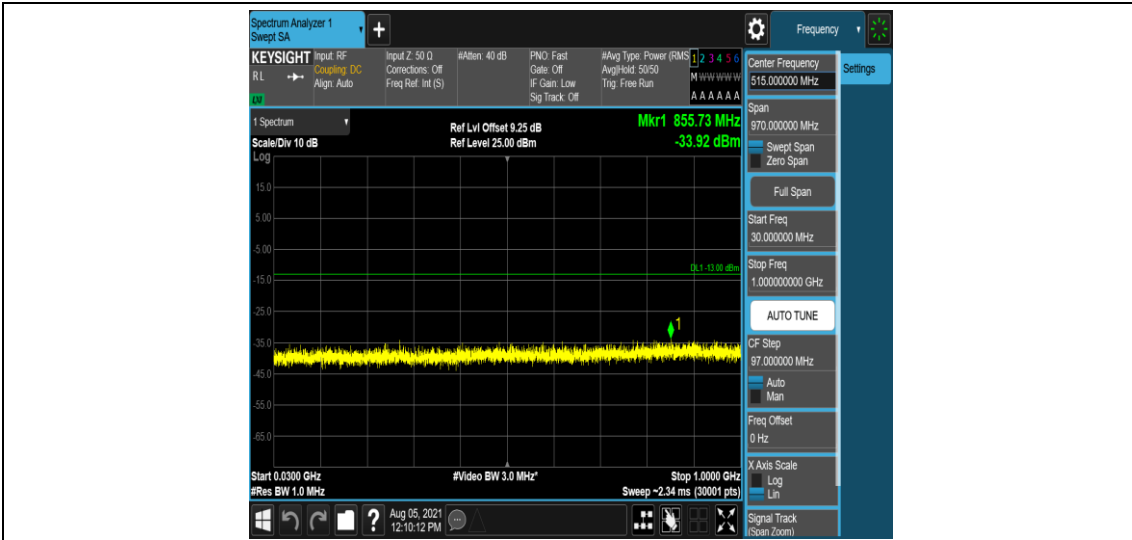
Band4-20MHz-16QAM-20175-1-0-Low-12000-26500--51.71-PASS



Band4-20MHz-16QAM-20300-1-0-High-0.009-0.15--51.2-PASS



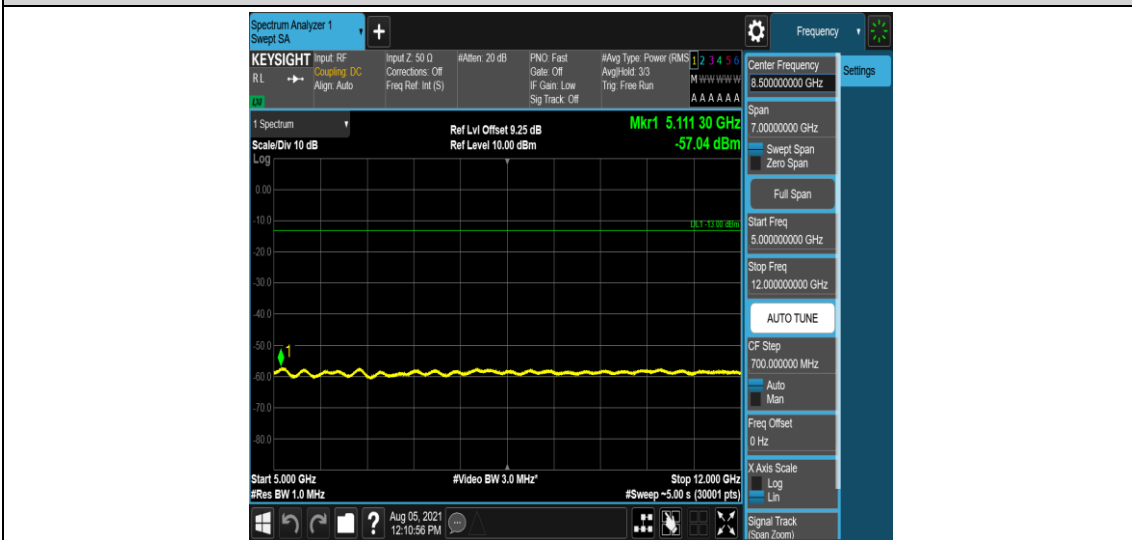
Band4-20MHz-16QAM-20300-1-0-High-0.15-30--51.52-PASS



Band4-20MHz-16QAM-20300-1-0-High-30-1000--33.92-PASS

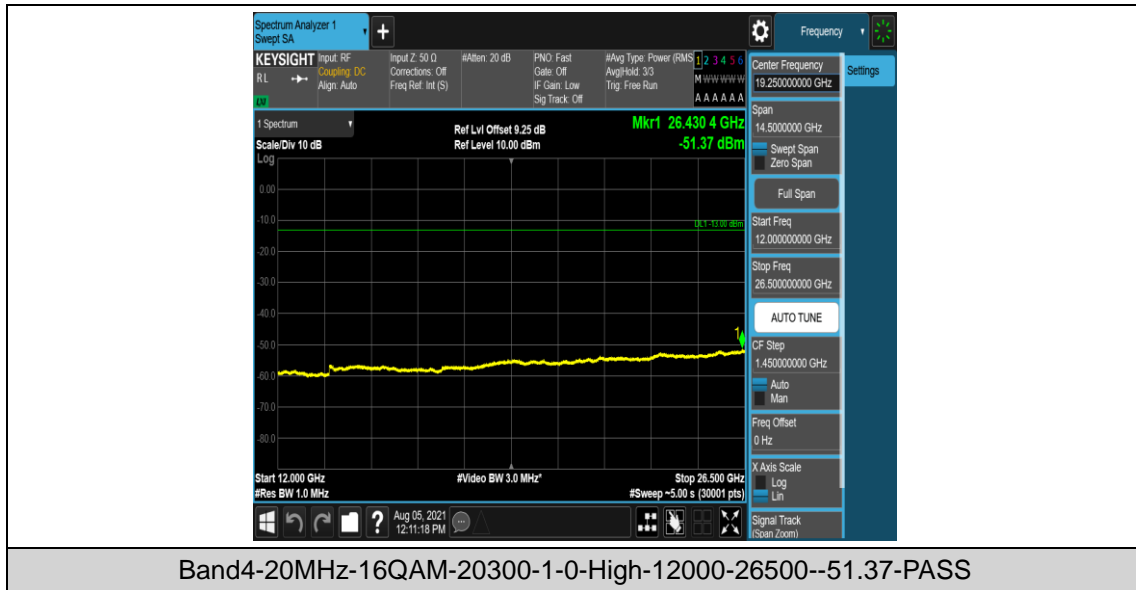


Band4-20MHz-16QAM-20300-1-0-High-1000-5000--35.67-PASS



Band4-20MHz-16QAM-20300-1-0-High-5000-12000--57.04-PASS





**Appendix F: Frequency Stability for M1****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	1.91	0.001117	± 2.5	PASS
		VN	TN	2.11	0.001233	± 2.5	PASS
		VH	TN	2.69	0.001572	± 2.5	PASS
	MCH	VL	TN	-1.72	-0.000993	± 2.5	PASS
		VN	TN	-1.78	-0.001027	± 2.5	PASS
		VH	TN	4.07	0.002349	± 2.5	PASS
	HCH	VL	TN	1.46	0.000832	± 2.5	PASS
		VN	TN	-0.16	-0.000091	± 2.5	PASS
		VH	TN	3.94	0.002246	± 2.5	PASS
16QAM	LCH	VL	TN	2.17	0.001268	± 2.5	PASS
		VN	TN	3.92	0.002291	± 2.5	PASS
		VH	TN	3.41	0.001993	± 2.5	PASS
	MCH	VL	TN	0.18	0.000104	± 2.5	PASS
		VN	TN	1.97	0.001137	± 2.5	PASS
		VH	TN	3.99	0.002303	± 2.5	PASS
	HCH	VL	TN	2.7	0.001539	± 2.5	PASS
		VN	TN	2.01	0.001146	± 2.5	PASS
		VH	TN	0.74	0.000422	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.66	0.000970	± 2.5	PASS
		VN	-20	-0.61	-0.000357	± 2.5	PASS
		VN	-10	4.83	0.002823	± 2.5	PASS
		VN	0	2.12	0.001239	± 2.5	PASS
		VN	10	4.84	0.002829	± 2.5	PASS
		VN	20	4.93	0.002882	± 2.5	PASS
		VN	30	-0.14	-0.000082	± 2.5	PASS
		VN	40	-1.18	-0.000690	± 2.5	PASS
		VN	50	-0.65	-0.000380	± 2.5	PASS
	MCH	VN	-30	0.41	0.000237	± 2.5	PASS

		VN	-20	0.4	0.000231	± 2.5	PASS
		VN	-10	0.01	0.000006	± 2.5	PASS
		VN	0	4.13	0.002384	± 2.5	PASS
		VN	10	1.14	0.000658	± 2.5	PASS
		VN	20	3.82	0.002205	± 2.5	PASS
		VN	30	3.24	0.001870	± 2.5	PASS
		VN	40	3.79	0.002188	± 2.5	PASS
		VN	50	-0.27	-0.000156	± 2.5	PASS
	HCH	VN	-30	1.97	0.001123	± 2.5	PASS
		VN	-20	-0.46	-0.000262	± 2.5	PASS
		VN	-10	4.07	0.002320	± 2.5	PASS
		VN	0	3.27	0.001864	± 2.5	PASS
		VN	10	4.68	0.002668	± 2.5	PASS
		VN	20	1.86	0.001060	± 2.5	PASS
		VN	30	4.18	0.002383	± 2.5	PASS
		VN	40	2.44	0.001391	± 2.5	PASS
		VN	50	-1.73	-0.000986	± 2.5	PASS
		16QAM	LCH	VN	-30	-0.96	-0.000561
VN	-20			0.14	0.000082	± 2.5	PASS
VN	-10			3.67	0.002145	± 2.5	PASS
VN	0			2.93	0.001713	± 2.5	PASS
VN	10			4.24	0.002479	± 2.5	PASS
VN	20			2.56	0.001496	± 2.5	PASS
VN	30			2.72	0.001590	± 2.5	PASS
VN	40			4.98	0.002911	± 2.5	PASS
VN	50			-1.39	-0.000813	± 2.5	PASS
MCH	VN		-30	-1.27	-0.000724	± 2.5	PASS
	VN		-20	0.79	0.000450	± 2.5	PASS
	VN		-10	-0.17	-0.000097	± 2.5	PASS
	VN		0	2.75	0.001568	± 2.5	PASS
	VN		10	2.25	0.001283	± 2.5	PASS
	VN		20	-0.79	-0.000450	± 2.5	PASS
	VN		30	-1.02	-0.000581	± 2.5	PASS
	VN		40	2.18	0.001243	± 2.5	PASS
	VN		50	0.52	0.000296	± 2.5	PASS
HCH	VN		-30	2.09	0.001191	± 2.5	PASS
	VN		-20	1.12	0.000638	± 2.5	PASS
	VN		-10	4.57	0.002605	± 2.5	PASS
	VN		0	-1.67	-0.000952	± 2.5	PASS
	VN		10	1.87	0.001066	± 2.5	PASS
	VN		20	2.61	0.001488	± 2.5	PASS

		VN	30	-0.19	-0.000108	± 2.5	PASS
		VN	40	0.18	0.000103	± 2.5	PASS
		VN	50	0.2	0.000114	± 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	2.21	0.001291	± 2.5	PASS
		VN	TN	1.48	0.000865	± 2.5	PASS
		VH	TN	-1.21	-0.000707	± 2.5	PASS
	MCH	VL	TN	-1.77	-0.001022	± 2.5	PASS
		VN	TN	-0.22	-0.000127	± 2.5	PASS
		VH	TN	2.99	0.001726	± 2.5	PASS
	HCH	VL	TN	-0.36	-0.000205	± 2.5	PASS
		VN	TN	-0.36	-0.000205	± 2.5	PASS
		VH	TN	1.42	0.000810	± 2.5	PASS
16QAM	LCH	VL	TN	-1.3	-0.000760	± 2.5	PASS
		VN	TN	2.19	0.001280	± 2.5	PASS
		VH	TN	-1.61	-0.000941	± 2.5	PASS
	MCH	VL	TN	4.08	0.002355	± 2.5	PASS
		VN	TN	3.54	0.002043	± 2.5	PASS
		VH	TN	2.26	0.001304	± 2.5	PASS
	HCH	VL	TN	-0.04	-0.000023	± 2.5	PASS
		VN	TN	2.65	0.001511	± 2.5	PASS
		VH	TN	2.77	0.001580	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.46	-0.000853	± 2.5	PASS
		VN	-20	2.97	0.001735	± 2.5	PASS
		VN	-10	-0.54	-0.000316	± 2.5	PASS
		VN	0	-0.36	-0.000210	± 2.5	PASS
		VN	10	1.65	0.000964	± 2.5	PASS
		VN	20	4.93	0.002881	± 2.5	PASS
		VN	30	-0.44	-0.000257	± 2.5	PASS
		VN	40	-1.39	-0.000812	± 2.5	PASS
		VN	50	0.84	0.000491	± 2.5	PASS
	MCH	VN	-30	1.98	0.001143	± 2.5	PASS
		VN	-20	-0.81	-0.000468	± 2.5	PASS

		VN	-10	3.86	0.002228	± 2.5	PASS		
		VN	0	3.87	0.002234	± 2.5	PASS		
		VN	10	0.97	0.000560	± 2.5	PASS		
		VN	20	-0.16	-0.000092	± 2.5	PASS		
		VN	30	2.46	0.001420	± 2.5	PASS		
		VN	40	-1.25	-0.000722	± 2.5	PASS		
		VN	50	3.33	0.001922	± 2.5	PASS		
	HCH	VN	-30	-1.85	-0.001055	± 2.5	PASS		
		VN	-20	-0.25	-0.000143	± 2.5	PASS		
		VN	-10	0.16	0.000091	± 2.5	PASS		
		VN	0	-0.39	-0.000222	± 2.5	PASS		
		VN	10	0.15	0.000086	± 2.5	PASS		
		VN	20	-1.84	-0.001049	± 2.5	PASS		
		VN	30	2.71	0.001545	± 2.5	PASS		
		VN	40	-1.76	-0.001004	± 2.5	PASS		
		VN	50	4.16	0.002372	± 2.5	PASS		
		16QAM	LCH	VN	-30	-1.48	-0.000854	± 2.5	PASS
				VN	-20	3.03	0.001749	± 2.5	PASS
VN	-10			0.19	0.000110	± 2.5	PASS		
VN	0			0.61	0.000352	± 2.5	PASS		
VN	10			1.4	0.000808	± 2.5	PASS		
VN	20			-1.14	-0.000658	± 2.5	PASS		
VN	30			1.77	0.001022	± 2.5	PASS		
VN	40			2.93	0.001691	± 2.5	PASS		
VN	50			2.93	0.001691	± 2.5	PASS		
MCH	VN		-30	3.62	0.002064	± 2.5	PASS		
	VN		-20	3.26	0.001859	± 2.5	PASS		
	VN		-10	0.52	0.000297	± 2.5	PASS		
	VN		0	0.2	0.000114	± 2.5	PASS		
	VN		10	2.26	0.001289	± 2.5	PASS		
	VN		20	3.25	0.001853	± 2.5	PASS		
	VN		30	0.25	0.000143	± 2.5	PASS		
	VN		40	2.35	0.001340	± 2.5	PASS		
	VN		50	-1.34	-0.000764	± 2.5	PASS		
HCH	VN		-30	0.84	0.000479	± 2.5	PASS		
	VN		-20	2.07	0.001180	± 2.5	PASS		
	VN		-10	2.81	0.001603	± 2.5	PASS		
	VN		0	-0.64	-0.000365	± 2.5	PASS		
	VN		10	3.36	0.001916	± 2.5	PASS		
	VN		20	0.74	0.000422	± 2.5	PASS		
	VN		30	1.97	0.001123	± 2.5	PASS		

		VN	40	3.39	0.001933	± 2.5	PASS
		VN	50	-0.75	-0.000428	± 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	3.62	0.002114	± 2.5	PASS
		VN	TN	4.32	0.002523	± 2.5	PASS
		VH	TN	4.73	0.002762	± 2.5	PASS
	MCH	VL	TN	2.73	0.001576	± 2.5	PASS
		VN	TN	-1.46	-0.000843	± 2.5	PASS
		VH	TN	2.88	0.001662	± 2.5	PASS
	HCH	VL	TN	3.23	0.001843	± 2.5	PASS
		VN	TN	-1.73	-0.000987	± 2.5	PASS
		VH	TN	-1.49	-0.000850	± 2.5	PASS
16QAM	LCH	VL	TN	-0.01	-0.000006	± 2.5	PASS
		VN	TN	-0.19	-0.000111	± 2.5	PASS
		VH	TN	2.18	0.001273	± 2.5	PASS
	MCH	VL	TN	2.73	0.001576	± 2.5	PASS
		VN	TN	2.69	0.001553	± 2.5	PASS
		VH	TN	-0.29	-0.000167	± 2.5	PASS
	HCH	VL	TN	1.12	0.000639	± 2.5	PASS
		VN	TN	0.22	0.000126	± 2.5	PASS
		VH	TN	-0.66	-0.000377	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.21	-0.000707	± 2.5	PASS
		VN	-20	2.39	0.001396	± 2.5	PASS
		VN	-10	2.3	0.001343	± 2.5	PASS
		VN	0	-1.21	-0.000707	± 2.5	PASS
		VN	10	-0.97	-0.000566	± 2.5	PASS
		VN	20	4.13	0.002412	± 2.5	PASS
		VN	30	3.38	0.001974	± 2.5	PASS
		VN	40	-0.97	-0.000566	± 2.5	PASS
		VN	50	2.1	0.001226	± 2.5	PASS
	MCH	VN	-30	2.86	0.001651	± 2.5	PASS
		VN	-20	-1.75	-0.001010	± 2.5	PASS
		VN	-10	0.83	0.000479	± 2.5	PASS

		VN	0	4.83	0.002788	± 2.5	PASS		
		VN	10	0	0.000000	± 2.5	PASS		
		VN	20	-1.45	-0.000837	± 2.5	PASS		
		VN	30	3.2	0.001847	± 2.5	PASS		
		VN	40	0.28	0.000162	± 2.5	PASS		
		VN	50	0.48	0.000277	± 2.5	PASS		
	HCH	VN	-30	1.92	0.001096	± 2.5	PASS		
		VN	-20	0.55	0.000288	± 2.5	PASS		
		VN	-10	-1.64	-0.000860	± 2.5	PASS		
		VN	0	-1.58	-0.000828	± 2.5	PASS		
		VN	10	4.14	0.002170	± 2.5	PASS		
		VN	20	3.3	0.001730	± 2.5	PASS		
		VN	30	3.89	0.002039	± 2.5	PASS		
		VN	40	-1.55	-0.000813	± 2.5	PASS		
		VN	50	-1.12	-0.000587	± 2.5	PASS		
		16QAM	LCH	VN	-30	0.05	0.000029	± 2.5	PASS
				VN	-20	-1.16	-0.000670	± 2.5	PASS
				VN	-10	0.25	0.000144	± 2.5	PASS
VN	0			2.12	0.001224	± 2.5	PASS		
VN	10			-0.58	-0.000335	± 2.5	PASS		
VN	20			0.43	0.000248	± 2.5	PASS		
VN	30			2.76	0.001593	± 2.5	PASS		
VN	40			0.73	0.000421	± 2.5	PASS		
VN	50			0.7	0.000404	± 2.5	PASS		
MCH	VN		-30	1.38	0.000787	± 2.5	PASS		
	VN		-20	3.25	0.001854	± 2.5	PASS		
	VN		-10	-1.95	-0.001113	± 2.5	PASS		
	VN		0	-1.58	-0.000902	± 2.5	PASS		
	VN		10	-1.23	-0.000702	± 2.5	PASS		
	VN		20	0.88	0.000502	± 2.5	PASS		
	VN		30	1.87	0.001067	± 2.5	PASS		
	VN		40	3.11	0.001775	± 2.5	PASS		
	VN		50	-1.47	-0.000839	± 2.5	PASS		
HCH	VN		-30	2.18	0.001143	± 2.5	PASS		
	VN		-20	3.23	0.001693	± 2.5	PASS		
	VN		-10	3.24	0.001699	± 2.5	PASS		
	VN		0	4.66	0.002443	± 2.5	PASS		
	VN		10	-0.74	-0.000388	± 2.5	PASS		
	VN		20	0.94	0.000493	± 2.5	PASS		
	VN		30	0.84	0.000440	± 2.5	PASS		
	VN		40	2.48	0.001300	± 2.5	PASS		

		VN	50	1.79	0.000938	± 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	-1.3	-0.000758	± 2.5	PASS
		VN	TN	3.89	0.002268	± 2.5	PASS
		VH	TN	-1.73	-0.001009	± 2.5	PASS
	MCH	VL	TN	1.74	0.001004	± 2.5	PASS
		VN	TN	3.65	0.002107	± 2.5	PASS
		VH	TN	-1.13	-0.000652	± 2.5	PASS
	HCH	VL	TN	-1.16	-0.000663	± 2.5	PASS
		VN	TN	1.41	0.000806	± 2.5	PASS
		VH	TN	0.91	0.000520	± 2.5	PASS
16QAM	LCH	VL	TN	-0.46	-0.000268	± 2.5	PASS
		VN	TN	-0.62	-0.000362	± 2.5	PASS
		VH	TN	0.7	0.000408	± 2.5	PASS
	MCH	VL	TN	0.13	0.000075	± 2.5	PASS
		VN	TN	2.27	0.001310	± 2.5	PASS
		VH	TN	-0.39	-0.000225	± 2.5	PASS
	HCH	VL	TN	2.87	0.001640	± 2.5	PASS
		VN	TN	1.06	0.000606	± 2.5	PASS
		VH	TN	4.84	0.002766	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.81	0.001055	± 2.5	PASS
		VN	-20	1.61	0.000939	± 2.5	PASS
		VN	-10	0.69	0.000402	± 2.5	PASS
		VN	0	1.18	0.000688	± 2.5	PASS
		VN	10	-1.87	-0.001090	± 2.5	PASS
		VN	20	4.86	0.002834	± 2.5	PASS
		VN	30	0.77	0.000449	± 2.5	PASS
		VN	40	1.77	0.001032	± 2.5	PASS
		VN	50	-1.76	-0.001026	± 2.5	PASS
	MCH	VN	-30	-1.41	-0.000814	± 2.5	PASS
		VN	-20	4.29	0.002476	± 2.5	PASS
		VN	-10	-1.45	-0.000837	± 2.5	PASS
		VN	0	-0.21	-0.000121	± 2.5	PASS



		VN	10	-1.42	-0.000820	± 2.5	PASS
		VN	20	1.48	0.000854	± 2.5	PASS
		VN	30	0.05	0.000029	± 2.5	PASS
		VN	40	-0.35	-0.000202	± 2.5	PASS
		VN	50	4.42	0.002551	± 2.5	PASS
	HCH	VN	-30	0.16	0.000091	± 2.5	PASS
		VN	-20	-1.07	-0.000611	± 2.5	PASS
		VN	-10	1.73	0.000989	± 2.5	PASS
		VN	0	2.29	0.001309	± 2.5	PASS
		VN	10	3.8	0.002171	± 2.5	PASS
		VN	20	0.56	0.000320	± 2.5	PASS
		VN	30	2.62	0.001497	± 2.5	PASS
		VN	40	4.55	0.002600	± 2.5	PASS
		VN	50	1.07	0.000611	± 2.5	PASS
		16QAM	LCH	VN	-30	2.32	0.001339
VN	-20			-1.6	-0.000924	± 2.5	PASS
VN	-10			0.18	0.000104	± 2.5	PASS
VN	0			1.49	0.000860	± 2.5	PASS
VN	10			-1.36	-0.000785	± 2.5	PASS
VN	20			2.85	0.001645	± 2.5	PASS
VN	30			-0.37	-0.000214	± 2.5	PASS
VN	40			0.97	0.000560	± 2.5	PASS
VN	50			-1.62	-0.000935	± 2.5	PASS
MCH	VN		-30	3.99	0.002280	± 2.5	PASS
	VN		-20	-0.74	-0.000423	± 2.5	PASS
	VN		-10	0.28	0.000160	± 2.5	PASS
	VN		0	-1.49	-0.000851	± 2.5	PASS
	VN		10	2.33	0.001331	± 2.5	PASS
	VN		20	-0.22	-0.000126	± 2.5	PASS
	VN		30	4.37	0.002497	± 2.5	PASS
	VN		40	0.34	0.000194	± 2.5	PASS
	VN		50	2.29	0.001309	± 2.5	PASS
HCH	VN		-30	2.71	0.001549	± 2.5	PASS
	VN		-20	-1.2	-0.000686	± 2.5	PASS
	VN		-10	3.51	0.002006	± 2.5	PASS
	VN		0	-1.83	-0.001046	± 2.5	PASS
	VN		10	-0.28	-0.000160	± 2.5	PASS
	VN		20	-0.19	-0.000109	± 2.5	PASS
	VN		30	-0.79	-0.000451	± 2.5	PASS
	VN		40	4.45	0.002543	± 2.5	PASS
	VN		50	3.33	0.001903	± 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	3.05	0.001776	± 2.5	PASS
		VN	TN	-0.38	-0.000221	± 2.5	PASS
		VH	TN	0.93	0.000541	± 2.5	PASS
	MCH	VL	TN	1.2	0.000693	± 2.5	PASS
		VN	TN	-1.51	-0.000872	± 2.5	PASS
		VH	TN	4.12	0.002378	± 2.5	PASS
	HCH	VL	TN	0.14	0.000080	± 2.5	PASS
		VN	TN	1.08	0.000618	± 2.5	PASS
		VH	TN	1.66	0.000950	± 2.5	PASS
16QAM	LCH	VL	TN	0.39	0.000227	± 2.5	PASS
		VN	TN	2.88	0.001677	± 2.5	PASS
		VH	TN	2.94	0.001712	± 2.5	PASS
	MCH	VL	TN	0.86	0.000496	± 2.5	PASS
		VN	TN	1.26	0.000727	± 2.5	PASS
		VH	TN	-0.38	-0.000219	± 2.5	PASS
	HCH	VL	TN	3.61	0.002066	± 2.5	PASS
		VN	TN	-1.67	-0.000956	± 2.5	PASS
		VH	TN	3.27	0.001871	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.02	-0.000594	± 2.5	PASS
		VN	-20	-0.46	-0.000268	± 2.5	PASS
		VN	-10	-0.14	-0.000082	± 2.5	PASS
		VN	0	0.84	0.000489	± 2.5	PASS
		VN	10	-0.19	-0.000111	± 2.5	PASS
		VN	20	1.13	0.000658	± 2.5	PASS
		VN	30	-1.11	-0.000646	± 2.5	PASS
		VN	40	3.08	0.001793	± 2.5	PASS
		VN	50	-0.81	-0.000472	± 2.5	PASS
	MCH	VN	-30	0.88	0.000508	± 2.5	PASS
		VN	-20	0.65	0.000375	± 2.5	PASS
		VN	-10	-0.98	-0.000566	± 2.5	PASS
		VN	0	-0.25	-0.000144	± 2.5	PASS
		VN	10	0.35	0.000202	± 2.5	PASS

		VN	20	3.8	0.002193	± 2.5	PASS
		VN	30	1.07	0.000618	± 2.5	PASS
		VN	40	1.83	0.001056	± 2.5	PASS
		VN	50	4.52	0.002609	± 2.5	PASS
	HCH	VN	-30	-1.45	-0.000830	± 2.5	PASS
		VN	-20	-1.23	-0.000704	± 2.5	PASS
		VN	-10	2.71	0.001551	± 2.5	PASS
		VN	0	0.13	0.000074	± 2.5	PASS
		VN	10	0.54	0.000309	± 2.5	PASS
		VN	20	-1.79	-0.001024	± 2.5	PASS
		VN	30	1.21	0.000692	± 2.5	PASS
		VN	40	4.42	0.002529	± 2.5	PASS
		VN	50	3.74	0.002140	± 2.5	PASS
16QAM	LCH	VN	-30	-1.33	-0.000768	± 2.5	PASS
		VN	-20	0.05	0.000029	± 2.5	PASS
		VN	-10	1.19	0.000687	± 2.5	PASS
		VN	0	-1.65	-0.000952	± 2.5	PASS
		VN	10	-0.38	-0.000219	± 2.5	PASS
		VN	20	0.11	0.000063	± 2.5	PASS
		VN	30	-1.3	-0.000750	± 2.5	PASS
		VN	40	0.08	0.000046	± 2.5	PASS
		VN	50	4.93	0.002846	± 2.5	PASS
	MCH	VN	-30	1.13	0.000647	± 2.5	PASS
		VN	-20	1.37	0.000784	± 2.5	PASS
		VN	-10	0.76	0.000435	± 2.5	PASS
		VN	0	4.59	0.002627	± 2.5	PASS
		VN	10	-0.37	-0.000212	± 2.5	PASS
		VN	20	2.56	0.001465	± 2.5	PASS
		VN	30	0.84	0.000481	± 2.5	PASS
		VN	40	0.99	0.000567	± 2.5	PASS
		VN	50	2.85	0.001631	± 2.5	PASS
	HCH	VN	-30	2.42	0.001385	± 2.5	PASS
		VN	-20	-1.41	-0.000807	± 2.5	PASS
		VN	-10	2.28	0.001305	± 2.5	PASS
		VN	0	4.46	0.002552	± 2.5	PASS
		VN	10	1.3	0.000744	± 2.5	PASS
		VN	20	-0.7	-0.000401	± 2.5	PASS
		VN	30	2.33	0.001333	± 2.5	PASS
		VN	40	3.73	0.002134	± 2.5	PASS
		VN	50	-1.99	-0.001139	± 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	3.41	0.001983	± 2.5	PASS
		VN	TN	3.4	0.001977	± 2.5	PASS
		VH	TN	-2	-0.001163	± 2.5	PASS
	MCH	VL	TN	-0.68	-0.000392	± 2.5	PASS
		VN	TN	3.31	0.001911	± 2.5	PASS
		VH	TN	-0.66	-0.000381	± 2.5	PASS
	HCH	VL	TN	3.42	0.001960	± 2.5	PASS
		VN	TN	4.92	0.002819	± 2.5	PASS
		VH	TN	3.12	0.001788	± 2.5	PASS
16QAM	LCH	VL	TN	3.74	0.002174	± 2.5	PASS
		VN	TN	1.81	0.001052	± 2.5	PASS
		VH	TN	1.1	0.000640	± 2.5	PASS
	MCH	VL	TN	-0.86	-0.000496	± 2.5	PASS
		VN	TN	1.77	0.001022	± 2.5	PASS
		VH	TN	2.27	0.001310	± 2.5	PASS
	HCH	VL	TN	0.62	0.000355	± 2.5	PASS
		VN	TN	-1.98	-0.001135	± 2.5	PASS
		VH	TN	4.9	0.002808	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.43	0.001994	± 2.5	PASS
		VN	-20	4.26	0.002477	± 2.5	PASS
		VN	-10	1.18	0.000686	± 2.5	PASS
		VN	0	-1.35	-0.000785	± 2.5	PASS
		VN	10	3.84	0.002233	± 2.5	PASS
		VN	20	-0.71	-0.000413	± 2.5	PASS
		VN	30	3.08	0.001791	± 2.5	PASS
		VN	40	1.11	0.000645	± 2.5	PASS
	MCH	VN	50	2.64	0.001535	± 2.5	PASS
		VN	-30	3.68	0.002124	± 2.5	PASS
		VN	-20	4.63	0.002672	± 2.5	PASS
		VN	-10	1.84	0.001062	± 2.5	PASS
		VN	0	2.95	0.001703	± 2.5	PASS
		VN	10	1.93	0.001114	± 2.5	PASS
VN	20	-1.06	-0.000612	± 2.5	PASS		

		VN	30	0.43	0.000248	± 2.5	PASS
		VN	40	-0.69	-0.000398	± 2.5	PASS
		VN	50	-0.11	-0.000063	± 2.5	PASS
	HCH	VN	-30	-1.95	-0.001117	± 2.5	PASS
		VN	-20	4.39	0.002516	± 2.5	PASS
		VN	-10	1.5	0.000860	± 2.5	PASS
		VN	0	0.04	0.000023	± 2.5	PASS
		VN	10	-0.33	-0.000189	± 2.5	PASS
		VN	20	2.55	0.001461	± 2.5	PASS
		VN	30	-0.5	-0.000287	± 2.5	PASS
		VN	40	3.38	0.001937	± 2.5	PASS
		VN	50	0.6	0.000344	± 2.5	PASS
16QAM	LCH	VN	-30	2.86	0.001651	± 2.5	PASS
		VN	-20	-0.93	-0.000537	± 2.5	PASS
		VN	-10	4.7	0.002713	± 2.5	PASS
		VN	0	2.78	0.001605	± 2.5	PASS
		VN	10	3.36	0.001939	± 2.5	PASS
		VN	20	4.74	0.002736	± 2.5	PASS
		VN	30	2.29	0.001322	± 2.5	PASS
		VN	40	1.59	0.000918	± 2.5	PASS
		VN	50	3.53	0.002038	± 2.5	PASS
	MCH	VN	-30	2.9	0.001662	± 2.5	PASS
		VN	-20	2.03	0.001163	± 2.5	PASS
		VN	-10	-0.63	-0.000361	± 2.5	PASS
		VN	0	-0.23	-0.000132	± 2.5	PASS
		VN	10	4.24	0.002430	± 2.5	PASS
		VN	20	2.98	0.001708	± 2.5	PASS
		VN	30	-0.71	-0.000407	± 2.5	PASS
		VN	40	0.24	0.000138	± 2.5	PASS
		VN	50	1.77	0.001014	± 2.5	PASS
	HCH	VN	-30	-0.32	-0.000183	± 2.5	PASS
		VN	-20	1.41	0.000808	± 2.5	PASS
		VN	-10	1.05	0.000602	± 2.5	PASS
		VN	0	0.49	0.000281	± 2.5	PASS
		VN	10	-1	-0.000573	± 2.5	PASS
		VN	20	4.88	0.002797	± 2.5	PASS
		VN	30	3.61	0.002069	± 2.5	PASS
		VN	40	2.25	0.001289	± 2.5	PASS
		VN	50	-1.57	-0.000900	± 2.5	PASS