



















































## Appendix F: Frequency Stability

## Test Result

**Channel Bandwidth: 5 MHz** 

			Channel Ban	dwidth: 5 MHz			
				tage			
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
		VL	TN	-1	-0.001415	± 2.5	PASS
	LCH	VN	TN	-0.88	-0.001246	± 2.5	PASS
		VH	TN	-0.68	-0.000962	± 2.5	PASS
		VL	TN	2.09	0.002944	± 2.5	PASS
QPSK	MCH	VN	TN	-0.42	-0.000592	± 2.5	PASS
		VH	TN	4.94	0.006958	± 2.5	PASS
		VL	TN	4.13	0.005788	± 2.5	PASS
	нсн	VN	TN	2.3	0.003224	± 2.5	PASS
		VH	TN	2.59	0.003630	± 2.5	PASS
		VL	TN	4.49	0.006355	± 2.5	PASS
	LCH	VN	TN	-1.74	-0.002463	± 2.5	PASS
		VH	TN	4.07	0.005761	± 2.5	PASS
		VL	TN	2.51	0.003535	± 2.5	PASS
16QAM	МСН	VN	TN	-0.57	-0.000803	± 2.5	PASS
		VH	TN	1.99	0.002803	± 2.5	PASS
		VL	TN	3.77	0.005284	± 2.5	PASS
	нсн	VN	TN	4.66	0.006531	± 2.5	PASS
		VH	TN	0.88	0.001233	± 2.5	PASS
			Tempe	erature			
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
		VN	-30	2.52	0.003567	± 2.5	PASS
		VN	-20	3.15	0.004459	± 2.5	PASS
		VN	-10	-1.15	-0.001628	± 2.5	PASS
		VN	0	-0.73	-0.001033	± 2.5	PASS
	LCH	VN	10	0.3	0.000425	± 2.5	PASS
QPSK		VN	20	3.38	0.004784	± 2.5	PASS
		VN	30	4.3	0.006086	± 2.5	PASS
		VN	40	2.98	0.004218	± 2.5	PASS
		VN	50	1.25	0.001769	± 2.5	PASS
	MCH	VN	-30	-1.56	-0.002197	± 2.5	PASS
	MCH	VN	-20	-1.64	-0.002310	± 2.5	PASS

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		VN	-10	2.98	0.004197	± 2.5	PASS
		VN	0	0.06	0.000085	± 2.5	PASS
		VN	10	1.25	0.001761	± 2.5	PASS
		VN	20	0.72	0.001014	± 2.5	PASS
		VN	30	3.81	0.005366	± 2.5	PASS
		VN	40	1.25	0.001761	± 2.5	PASS
		VN	50	4.12	0.005803	± 2.5	PASS
		VN	-30	3.62	0.005074	± 2.5	PASS
		VN	-20	3.33	0.004667	± 2.5	PASS
		VN	-10	-1.33	-0.001864	± 2.5	PASS
		VN	0	-0.22	-0.000308	± 2.5	PASS
	нсн	VN	10	-0.4	-0.000561	± 2.5	PASS
	·	VN	20	-1.6	-0.002242	± 2.5	PASS
		VN	30	4.56	0.006391	± 2.5	PASS
		VN	40	0.58	0.000813	± 2.5	PASS
		VN	50	1.36	0.001906	± 2.5	PASS
		VN	-30	3.47	0.004912	± 2.5	PASS
		VN	-20	2.72	0.003850	± 2.5	PASS
		VN	-10	1.06	0.001500	± 2.5	PASS
		VN	0	-1.43	-0.002024	± 2.5	PASS
	LCH	VN	10	3.9	0.005520	± 2.5	PASS
		VN	20	2.46	0.003482	± 2.5	PASS
		VN	30	4.54	0.006426	± 2.5	PASS
		VN	40	0.36	0.000510	± 2.5	PASS
		VN	50	1.49	0.002109	± 2.5	PASS
		VN	-30	0.89	0.001247	± 2.5	PASS
		VN	-20	3.04	0.004261	± 2.5	PASS
		VN	-10	2.96	0.004149	± 2.5	PASS
16QAM		VN	0	3.41	0.004779	± 2.5	PASS
	МСН	VN	10	3.31	0.004639	± 2.5	PASS
		VN	20	-1.72	-0.002411	± 2.5	PASS
		VN	30	2.31	0.003238	± 2.5	PASS
		VN	40	0.85	0.001191	± 2.5	PASS
		VN	50	3.98	0.005578	± 2.5	PASS
		VN	-30	0.45	0.000631	± 2.5	PASS
		VN	-20	-1.95	-0.002733	± 2.5	PASS
		VN	-10	0.78	0.001093	± 2.5	PASS
	НСН	VN	0	4.24	0.005943	± 2.5	PASS
		VN	10	-1.18	-0.001654	± 2.5	PASS
		VN	20	0.95	0.001331	± 2.5	PASS
		VN	30	0.15	0.000210	± 2.5	PASS



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	VN	40	-0.2	-0.000280	± 2.5	PASS
	VN	50	0.65	0.000911	± 2.5	PASS

## **Channel Bandwidth: 10 MHz**

			Channel Band	lwidth: 10 MHz			
				tage			
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
		VL	TN	0.09	0.000127	± 2.5	PASS
	LCH	VN	TN	3.65	0.005148	± 2.5	PASS
		VH	TN	2.99	0.004217	± 2.5	PASS
		VL	TN	0.14	0.000197	± 2.5	PASS
QPSK	мсн	VN	TN	2.03	0.002859	± 2.5	PASS
		VH	TN	-1.93	-0.002718	± 2.5	PASS
		VL	TN	4.36	0.006132	± 2.5	PASS
	нсн	VN	TN	-0.92	-0.001294	± 2.5	PASS
		VH	TN	-1.18	-0.001660	± 2.5	PASS
		VL	TN	4.74	0.006685	± 2.5	PASS
	LCH	VN	TN	3.28	0.004626	± 2.5	PASS
		VH	TN	4.98	0.007024	± 2.5	PASS
		VL	TN	2.24	0.003155	± 2.5	PASS
16QAM	мсн	VN	TN	0.19	0.000268	± 2.5	PASS
		VH	TN	0.46	0.000648	± 2.5	PASS
		VL	TN	-1.52	-0.002138	± 2.5	PASS
	НСН	VN	TN	3.7	0.005204	± 2.5	PASS
		VH	TN	4.99	0.007018	± 2.5	PASS
			Tempe	erature			
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
		VN	-30	-1.55	-0.002186	± 2.5	PASS
		VN	-20	-1.57	-0.002214	± 2.5	PASS
		VN	-10	-0.87	-0.001227	± 2.5	PASS
		VN	0	4.95	0.006982	± 2.5	PASS
	LCH	VN	10	1.41	0.001989	± 2.5	PASS
QPSK		VN	20	4.72	0.006657	± 2.5	PASS
Qi Sit		VN	30	-0.24	-0.000339	± 2.5	PASS
		VN	40	4.67	0.006587	± 2.5	PASS
		VN	50	2.85	0.004020	± 2.5	PASS
		VN	-30	4.78	0.006732	± 2.5	PASS
	МСН	VN	-20	0.51	0.000718	± 2.5	PASS
		VN	-10	1.67	0.002352	± 2.5	PASS





VN 10 4.53 0.006380 ±2.5 P. VN 20 4.32 0.006085 ±2.5 P. VN 30 2.74 0.003859 ±2.5 P. VN 40 4.14 0.005831 ±2.5 P. VN 50 3.19 0.004493 ±2.5 P. VN -30 -1.11 -0.001561 ±2.5 P. VN -20 4.81 0.006765 ±2.5 P. VN -10 0.73 0.001027 ±2.5 P. VN -10 0.73 0.005218 ±2.5 P. VN -10 0.3.71 0.005218 ±2.5 P. VN -10 0.3.79 0.005331 ±2.5 P. VN -10 0.004233 ±2.5 P. VN -20 0.75 0.001056 ±2.5 P. VN -20 0.75 0.001056 ±2.5 P. VN -10 0.004233 ±2.5 P. VN -20 0.75 0.001056 ±2.5 P. VN -10 0.004233 ±2.5 P. VN -10 0.005206 ±2.5 P. VN -10 0.00520 ±2.								
VN   20			VN	0	-1.37	-0.001930	± 2.5	PASS
VN 30 2.74 0.003859 ±2.5 P. VN 40 4.14 0.005831 ±2.5 P. VN 50 3.19 0.004493 ±2.5 P. VN -30 -1.11 -0.001561 ±2.5 P. VN -20 4.81 0.006765 ±2.5 P. VN -10 0.73 0.001027 ±2.5 P. VN 0 4.31 0.006062 ±2.5 P. VN 10 3.71 0.005218 ±2.5 P. VN 20 1.5 0.002110 ±2.5 P. VN 30 3.79 0.005331 ±2.5 P. VN 40 3.69 0.005190 ±2.5 P. VN -30 2.93 0.004127 ±2.5 P. VN -30 2.93 0.004127 ±2.5 P. VN -10 1.75 0.002465 ±2.5 P. VN 30 3.84 0.005408 ±2.5 P. VN 30 3.85 0.005423 ±2.5 P. VN 30 3.85 0.005423 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -20 0.94 0.001322 ±2.5 P. VN -10 4.42 0.006217 ±2.5 P. VN -20 0.94 0.001322 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -20 0.94 0.001322 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -20 0.94 0.001322 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -20 4.2 0.005907 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -10 4.42 0.006217 ±2.5 P. VN -20 4.2 0.005907 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -40 3.68 0.005176 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -40 3.68 0.005176 ±2.5 P. VN -40 4.42 0.006217 ±2.5 P. VN -40 4.42 0.006211 ±2.5 P. VN -40 4.42 0.006211 ±2.5 P. VN -40 4.42 0.006211 ±2.5 P.			VN	10	4.53	0.006380	± 2.5	PASS
VN 40 4.14 0.005831 ±2.5 P. VN 50 3.19 0.004493 ±2.5 P. VN -30 -1.11 -0.001561 ±2.5 P. VN -20 4.81 0.006765 ±2.5 P. VN -10 0.73 0.001027 ±2.5 P. VN 0 4.31 0.006062 ±2.5 P. VN 0 4.31 0.006062 ±2.5 P. VN 20 1.5 0.002110 ±2.5 P. VN 30 3.79 0.005331 ±2.5 P. VN 30 3.79 0.005331 ±2.5 P. VN 40 3.69 0.005190 ±2.5 P. VN 50 3.01 0.004233 ±2.5 P. VN 50 3.01 0.004233 ±2.5 P. VN -30 2.93 0.004127 ±2.5 P. VN -20 0.75 0.001056 ±2.5 P. VN -10 1.75 0.002465 ±2.5 P. VN -10 1.75 0.002465 ±2.5 P. VN -10 1.85 0.002606 ±2.5 P. VN 20 3.84 0.005403 ±2.5 P. VN 30 3.85 0.005423 ±2.5 P. VN 30 3.85 0.005423 ±2.5 P. VN 40 -1.21 -0.001704 ±2.5 P. VN 40 -1.21 -0.001704 ±2.5 P. VN 40 -1.21 -0.001704 ±2.5 P. VN 50 1.5 0.002606 ±2.5 P. VN 40 -1.21 -0.001704 ±2.5 P. VN 50 1.5 0.002606 ±2.5 P. VN 40 -1.21 -0.001704 ±2.5 P. VN 50 1.5 0.002606 ±2.5 P. VN 40 -1.21 -0.001704 ±2.5 P. VN 50 1.5 0.002606 ±2.5 P. VN 40 -1.26 0.001772 ±2.5 P. VN 40 4.22 0.006217 ±2.5 P. VN 40 4.22 0.006217 ±2.5 P. VN 40 4.22 0.006217 ±2.5 P. VN 30 3.68 0.005176 ±2.5 P. VN 30 3.68 0.005176 ±2.5 P. VN 30 3.07 0.004318 ±2.5 P. VN 30 3.07 0.004318 ±2.5 P. VN 30 3.07 0.004318 ±2.5 P. VN 30 4.27 0.006006 ±2.5 P. VN 30 3.07 0.004318 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN 30 3.07 0.004318 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -30 4.0006006 ±2.5 P. VN -30 4.006000000000000000000000000000000000			VN	20	4.32	0.006085	± 2.5	PASS
VN 50 3.19 0.004493 ± 2.5 P.  VN -30 -1.11 -0.001561 ± 2.5 P.  VN -20 4.81 0.006765 ± 2.5 P.  VN -10 0.73 0.001027 ± 2.5 P.  VN 0 4.31 0.006062 ± 2.5 P.  VN 10 3.71 0.005218 ± 2.5 P.  VN 20 1.5 0.002110 ± 2.5 P.  VN 30 3.79 0.005331 ± 2.5 P.  VN 40 3.69 0.005190 ± 2.5 P.  VN 50 3.01 0.004233 ± 2.5 P.  VN -30 2.93 0.004127 ± 2.5 P.  VN -20 0.75 0.001056 ± 2.5 P.  VN -10 1.75 0.002465 ± 2.5 P.  VN 0 4.78 0.006732 ± 2.5 P.  VN 20 3.84 0.005408 ± 2.5 P.  VN 20 3.84 0.005408 ± 2.5 P.  VN 30 3.85 0.005423 ± 2.5 P.  VN 40 -1.21 -0.001704 ± 2.5 P.  VN 30 3.85 0.005423 ± 2.5 P.  VN -30 4.27 0.006006 ± 2.5 P.  VN -30 4.27 0.006006 ± 2.5 P.  VN -20 0.94 0.001322 ± 2.5 P.  VN -30 4.27 0.006006 ± 2.5 P.  VN -30 4.28 0.005408 ± 2.5 P.  VN -20 0.94 0.001322 ± 2.5 P.  VN -30 4.29 0.005407 ± 2.5 P.  VN -30 4.20 0.005407 ± 2.5 P.  VN -20 4.2 0.005907 ± 2.5 P.  VN -20 4.2 0.005907 ± 2.5 P.  VN -20 4.2 0.005907 ± 2.5 P.  VN -20 4.0 0.005166 ± 2.5 P.  VN -20 4.0 0.005166 ± 2.5 P.  VN -20 4.0 0.005176 ± 2.5 P.  VN -20 4.0 0.006066 ± 2.5 P.  VN -20 4.0 0.0			VN	30	2.74	0.003859	± 2.5	PASS
VN -30			VN	40	4.14	0.005831	± 2.5	PASS
NN			VN	50	3.19	0.004493	± 2.5	PASS
HCH HCH VN -10 0.73 0.001027 ±2.5 P VN 0 4.31 0.006062 ±2.5 P VN 10 3.71 0.005218 ±2.5 P VN 20 1.5 0.002110 ±2.5 P VN 30 3.79 0.005331 ±2.5 P VN 40 3.69 0.005190 ±2.5 P VN 50 3.01 0.004233 ±2.5 P VN -30 2.93 0.004127 ±2.5 P VN -30 2.93 0.004127 ±2.5 P VN -10 1.75 0.002465 ±2.5 P VN 0 -10 1.75 0.002465 ±2.5 P VN 0 -10 1.75 0.002465 ±2.5 P VN 0 0 4.78 0.006032 ±2.5 P VN 0 0 4.78 0.006032 ±2.5 P VN 30 3.85 0.005423 ±2.5 P VN 30 3.85 0.005423 ±2.5 P VN 30 3.85 0.005423 ±2.5 P VN -30 4.27 0.006006 ±2.5 P VN -30 4.27 0.006006 ±2.5 P VN -10 4.42 0.006217 ±2.5 P VN -20 0.94 0.001702 ±2.5 P VN -10 4.42 0.006217 ±2.5 P VN -10 4.42 0.006217 ±2.5 P VN -20 0.94 0.001772 ±2.5 P VN -30 4.2 0.006006 ±2.5 P VN -30 4.2 0.005907 ±2.5 P VN -30 4.2 0.006006 ±2.5 P VN -30 4.2 0.005907 ±2.5 P VN -30 4.2 0.005626 ±2.5 P VN -30 4.2 0.005907 ±2.5 P VN -30 4.2 0.005626 ±2.5 P VN -30 4.2 0.005626 ±2.5 P VN -30 4.2 0.005907 ±2.5 P VN -30 4.2 0.005626 ±2.5 P VN -30 4.2 0.005626 ±2.5 P VN -30 4.2 0.005907 ±2.5 P VN -30 4.2 0.005907 ±2.5 P VN -30 4.2 0.005907 ±2.5 P VN -30 4.2 0.005626 ±2.5 P VN -30 4.2 0.005907 ±2.5 P VN -30 4.2 0.005626 ±2.5 P VN -30 4.2 0.005907 ±2.5 P VN -30 4.2 0.005626 ±2.5 P VN -30 -4.2 0.005626 -4.2 P VN -30 -4.2 0.006606 -4.2 P VN -30 -4.2 -4.2 -4.2 -4.2 -4.2 -4.2 -4.2 -4.2			VN	-30	-1.11	-0.001561	± 2.5	PASS
HCH			VN	-20	4.81	0.006765	± 2.5	PASS
HCH			VN	-10	0.73	0.001027	± 2.5	PASS
VN 20 1.5 0.002110 ±2.5 P. VN 30 3.79 0.005331 ±2.5 P. VN 40 3.69 0.005190 ±2.5 P. VN 50 3.01 0.004233 ±2.5 P. VN -30 2.93 0.004127 ±2.5 P. VN -20 0.75 0.001056 ±2.5 P. VN -10 1.75 0.002465 ±2.5 P. VN 0 0 4.78 0.006732 ±2.5 P. VN 20 3.84 0.005408 ±2.5 P. VN 30 3.85 0.005423 ±2.5 P. VN 30 3.85 0.005423 ±2.5 P. VN 40 -1.21 -0.001704 ±2.5 P. VN 50 -1.5 -0.002113 ±2.5 P. VN 50 -1.5 -0.002113 ±2.5 P. VN -20 0.94 0.001322 ±2.5 P. VN -20 0.94 0.001322 ±2.5 P. VN -20 0.94 0.001322 ±2.5 P. VN -10 4.42 0.006217 ±2.5 P. VN -10 4.42 0.006217 ±2.5 P. VN -10 4.42 0.005907 ±2.5 P. VN -10 4.42 0.005907 ±2.5 P. VN -10 4.20 0.005176 ±2.5 P. VN -10 3.68 0.005176 ±2.5 P. VN -30 4 0.005626 ±2.5 P. VN -20 4.09 0.005752 ±2.5 P. VN -20 4.09 0.005752 ±2.5 P. VN -20 4.09 0.005752 ±2.5 P. VN -10 4.27 0.006006 ±2.5 P. VN -10 4.27 0.0060			VN	0	4.31	0.006062	± 2.5	PASS
VN 30 3.79 0.005331 ±2.5 P. VN 40 3.69 0.005190 ±2.5 P. VN 50 3.01 0.004233 ±2.5 P. VN -30 2.93 0.004127 ±2.5 P. VN -20 0.75 0.001056 ±2.5 P. VN -10 1.75 0.002465 ±2.5 P. VN 0 4.78 0.006732 ±2.5 P. VN 20 3.84 0.005408 ±2.5 P. VN 30 3.85 0.005423 ±2.5 P. VN 30 3.85 0.005423 ±2.5 P. VN 40 -1.21 -0.001704 ±2.5 P. VN 50 -1.5 -0.002113 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -20 0.94 0.001322 ±2.5 P. VN 0 1.26 0.001772 ±2.5 P. VN 0 1.26 0.001772 ±2.5 P. VN 20 4.2 0.005907 ±2.5 P. VN 30 2.09 0.002940 ±2.5 P. VN 30 3.68 0.005176 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -20 4.2 0.005907 ±2.5 P. VN -20 4.2 0.005907 ±2.5 P. VN -30 4.2 0.005705 ±2.5 P. VN -30 4.2 0.005626 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -20 4.09 0.005752 ±2.5 P. VN -20 4.0		HCH	VN	10	3.71	0.005218	± 2.5	PASS
VN 40 3.69 0.005190 ±2.5 P. VN 50 3.01 0.004233 ±2.5 P. VN -30 2.93 0.004127 ±2.5 P. VN -20 0.75 0.001056 ±2.5 P. VN -10 1.75 0.002465 ±2.5 P. VN 0 4.78 0.006732 ±2.5 P. VN 20 3.84 0.005408 ±2.5 P. VN 20 3.84 0.005408 ±2.5 P. VN 30 3.85 0.005423 ±2.5 P. VN 40 -1.21 -0.001704 ±2.5 P. VN 50 -1.5 -0.002113 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -20 0.94 0.001322 ±2.5 P. VN -20 0.94 0.001322 ±2.5 P. VN 0 1.26 0.001772 ±2.5 P. VN 0 1.26 0.001772 ±2.5 P. VN 20 4.2 0.005907 ±2.5 P. VN 30 2.09 0.002940 ±2.5 P. VN 30 3.68 0.005176 ±2.5 P. VN 30 3.68 0.005176 ±2.5 P. VN -30 4 0.005626 ±2.5 P. VN -20 4.09 0.005752 ±2.5 P. VN -20 4.09 0.005752 ±2.5 P. VN -20 4.09 0.005762 ±2.5 P. VN -10 4.27 0.006006 ±2.5 P. VN -10 4.27 0.006006 ±2.5 P. VN -10 3.47 0.004880 ±2.5 P. VN -10 -1.65 0.002321 ±2.5 P.			VN	20	1.5	0.002110	± 2.5	PASS
VN 50 3.01 0.004233 ±2.5 P. VN -30 2.93 0.004127 ±2.5 P. VN -20 0.75 0.001056 ±2.5 P. VN -10 1.75 0.002465 ±2.5 P. VN 0 4.78 0.006732 ±2.5 P. VN 20 3.84 0.005408 ±2.5 P. VN 30 3.85 0.005423 ±2.5 P. VN 40 -1.21 -0.001704 ±2.5 P. VN 50 -1.5 -0.002113 ±2.5 P. VN 50 -1.5 -0.002113 ±2.5 P. VN -20 0.94 0.001322 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -10 4.42 0.006217 ±2.5 P. VN -10 4.42 0.006217 ±2.5 P. VN -10 4.42 0.006217 ±2.5 P. VN -10 4.42 0.005907 ±2.5 P. VN -10 4.20 0.005907 ±2.5 P. VN -20 4.09 0.005752 ±2.5 P. VN -20 4.09 0.005752 ±2.5 P. VN -20 4.09 0.005752 ±2.5 P. VN -10 4.27 0.006006			VN	30	3.79	0.005331	± 2.5	PASS
VN			VN	40	3.69	0.005190	± 2.5	PASS
VN			VN	50	3.01	0.004233	± 2.5	PASS
PSK  VN  -10  1.75  0.002465  ± 2.5  P.  VN  0  4.78  0.006732  ± 2.5  P.  VN  10  1.85  0.002606  ± 2.5  P.  VN  20  3.84  0.005408  ± 2.5  P.  VN  30  3.85  0.005423  ± 2.5  P.  VN  40  -1.21  -0.001704  ± 2.5  P.  VN  50  -1.5  -0.002113  ± 2.5  P.  VN  -30  4.27  0.006006  ± 2.5  P.  VN  -10  4.42  0.006217  ± 2.5  P.  VN  0  1.26  0.001772  ± 2.5  P.  VN  0  1.26  0.001772  ± 2.5  P.  VN  10  -1.65  -0.002321  ± 2.5  P.  VN  30  2.09  0.005907  ± 2.5  P.  VN  40  3.68  0.005176  ± 2.5  P.  VN  -30  4  0.005626  ± 2.5  P.  VN  -30  4  0.006060  ± 2.5  P.  VN  -30  10  4.27  0.006006  ± 2.5  P.  VN  -10  4.27  0.006006  ± 2.5  P.  VN  0  -0.005  0.000070  ± 2.5  P.  VN  0  -0.006006  ± 2.5  P.  VN  0  10  165  0.002321  ± 2.5  P.			VN	-30	2.93	0.004127	± 2.5	PASS
PSK    Chain			VN	-20	0.75	0.001056	± 2.5	PASS
ACH  VN  10  1.85  0.002606  ± 2.5  P.  VN  20  3.84  0.005408  ± 2.5  P.  VN  30  3.85  0.005423  ± 2.5  P.  VN  40  -1.21  -0.001704  ± 2.5  P.  VN  50  -1.5  -0.002113  ± 2.5  P.  VN  -30  4.27  0.006006  ± 2.5  P.  VN  -20  0.94  0.001322  ± 2.5  P.  VN  -10  4.42  0.006217  ± 2.5  P.  VN  0  1.26  0.001772  ± 2.5  P.  VN  10  -1.65  -0.002321  ± 2.5  P.  VN  30  2.09  0.002940  ± 2.5  P.  VN  40  3.68  0.005176  ± 2.5  P.  VN  40  3.68  0.005176  ± 2.5  P.  VN  50  3.07  0.004318  ± 2.5  P.  VN  -30  4  0.005626  ± 2.5  P.  VN  -10  4.27  0.006006  ± 2.5  P.  VN  -10  4.27  0.006006  ± 2.5  P.  VN  -10  1.65  0.002321  ± 2.5  P.  VN  -10  1.65  0.002321  ± 2.5  P.  VN  -10  -1.65  -1.65  0.002321  -1.5			VN	-10	1.75	0.002465	± 2.5	PASS
VN         20         3.84         0.005408         ± 2.5         P.           VN         30         3.85         0.005423         ± 2.5         P.           VN         40         -1.21         -0.001704         ± 2.5         P.           VN         50         -1.5         -0.002113         ± 2.5         P.           VN         -30         4.27         0.006006         ± 2.5         P.           VN         -20         0.94         0.001322         ± 2.5         P.           VN         -10         4.42         0.006217         ± 2.5         P.           VN         0         1.26         0.001772         ± 2.5         P.           VN         10         -1.65         -0.002321         ± 2.5         P.           VN         30         2.09         0.002940         ± 2.5         P.           VN         40         3.68         0.005176         ± 2.5         P.           VN         -30         4         0.005626         ± 2.5         P.           VN         -30         4         0.005752         ± 2.5         P.           VN         -10         4.27         0.0060			VN	0	4.78	0.006732	± 2.5	PASS
QPSK  VN		LCH	VN	10	1.85	0.002606	± 2.5	PASS
VN 40 -1.21 -0.001704 ±2.5 P. VN 50 -1.5 -0.002113 ±2.5 P. VN -30 4.27 0.006006 ±2.5 P. VN -20 0.94 0.001322 ±2.5 P. VN -10 4.42 0.006217 ±2.5 P. VN 0 1.26 0.001772 ±2.5 P. VN 10 -1.65 -0.002321 ±2.5 P. VN 20 4.2 0.005907 ±2.5 P. VN 30 2.09 0.002940 ±2.5 P. VN 40 3.68 0.005176 ±2.5 P. VN 40 3.68 0.005176 ±2.5 P. VN 50 3.07 0.004318 ±2.5 P. VN -30 4 0.005626 ±2.5 P. VN -30 4 0.005626 ±2.5 P. VN -20 4.09 0.005752 ±2.5 P. VN -20 4.09 0.005752 ±2.5 P. VN -10 4.27 0.006006 ±2.5 P. VN -10 4.27 0.006006 ±2.5 P. VN 0 -10 3.47 0.004880 ±2.5 P. VN 10 3.47 0.004880 ±2.5 P. VN 20 1.65 0.002321 ±			VN	20	3.84	0.005408	± 2.5	PASS
QPSK    VN   50			VN	30	3.85	0.005423	± 2.5	PASS
VN -30			VN	40	-1.21	-0.001704	± 2.5	PASS
VN -20 0.94 0.001322 ± 2.5 P.  VN -10 4.42 0.006217 ± 2.5 P.  VN 0 1.26 0.001772 ± 2.5 P.  VN 20 4.2 0.005907 ± 2.5 P.  VN 30 2.09 0.002940 ± 2.5 P.  VN 40 3.68 0.005176 ± 2.5 P.  VN 50 3.07 0.004318 ± 2.5 P.  VN -30 4 0.005626 ± 2.5 P.  VN -20 4.09 0.005752 ± 2.5 P.  VN -20 4.09 0.005752 ± 2.5 P.  VN -10 4.27 0.006006 ± 2.5 P.  VN 0 -10 3.47 0.004880 ± 2.5 P.  VN 10 3.47 0.004880 ± 2.5 P.  VN 20 1.65 0.002321 ± 2.5 P.			VN	50	-1.5	-0.002113	± 2.5	PASS
VN         -10         4.42         0.006217         ± 2.5         Property of the propert			VN	-30	4.27	0.006006	± 2.5	PASS
VN         0         1.26         0.001772         ± 2.5         Property           VN         10         -1.65         -0.002321         ± 2.5         Property           VN         20         4.2         0.005907         ± 2.5         Property           VN         30         2.09         0.002940         ± 2.5         Property           VN         40         3.68         0.005176         ± 2.5         Property           VN         -30         4         0.005626         ± 2.5         Property           VN         -20         4.09         0.005752         ± 2.5         Property           VN         -10         4.27         0.006006         ± 2.5         Property           VN         10         3.47         0.004880         ± 2.5         Property           VN         20         1.65         0.002321         ± 2.5         Property			VN	-20	0.94	0.001322	± 2.5	PASS
VN         10         -1.65         -0.002321         ± 2.5         Property of the proper			VN	-10	4.42	0.006217	± 2.5	PASS
MCH VN 10 -1.65 -0.002321 ±2.5 P.  VN 20 4.2 0.005907 ±2.5 P.  VN 30 2.09 0.002940 ±2.5 P.  VN 40 3.68 0.005176 ±2.5 P.  VN 50 3.07 0.004318 ±2.5 P.  VN -30 4 0.005626 ±2.5 P.  VN -20 4.09 0.005752 ±2.5 P.  VN -10 4.27 0.006006 ±2.5 P.  VN 0 -0.05 -0.000070 ±2.5 P.  VN 10 3.47 0.004880 ±2.5 P.  VN 20 1.65 0.002321 ±2.5 P.	ODCK		VN	0	1.26	0.001772	± 2.5	PASS
VN 30 2.09 0.002940 ± 2.5 P.  VN 40 3.68 0.005176 ± 2.5 P.  VN 50 3.07 0.004318 ± 2.5 P.  VN -30 4 0.005626 ± 2.5 P.  VN -20 4.09 0.005752 ± 2.5 P.  VN -10 4.27 0.006006 ± 2.5 P.  VN 0 -0.05 -0.000070 ± 2.5 P.  VN 10 3.47 0.004880 ± 2.5 P.  VN 20 1.65 0.002321 ± 2.5 P.	QPSK	MCH	VN	10	-1.65	-0.002321	± 2.5	PASS
VN 40 3.68 0.005176 ± 2.5 P.  VN 50 3.07 0.004318 ± 2.5 P.  VN -30 4 0.005626 ± 2.5 P.  VN -20 4.09 0.005752 ± 2.5 P.  VN -10 4.27 0.006006 ± 2.5 P.  VN 0 -0.05 -0.000070 ± 2.5 P.  VN 10 3.47 0.004880 ± 2.5 P.  VN 20 1.65 0.002321 ± 2.5 P.			VN	20	4.2	0.005907	± 2.5	PASS
VN 50 3.07 0.004318 ± 2.5 PA  VN -30 4 0.005626 ± 2.5 PA  VN -20 4.09 0.005752 ± 2.5 PA  VN -10 4.27 0.006006 ± 2.5 PA  VN 0 -0.05 -0.000070 ± 2.5 PA  VN 10 3.47 0.004880 ± 2.5 PA  VN 20 1.65 0.002321 ± 2.5 PA			VN	30	2.09	0.002940	± 2.5	PASS
HCH			VN	40	3.68	0.005176	± 2.5	PASS
HCH			VN	50	3.07	0.004318	± 2.5	PASS
HCH			VN	-30	4	0.005626	± 2.5	PASS
HCH			VN	-20	4.09	0.005752	± 2.5	PASS
HCH VN 10 3.47 0.004880 ± 2.5 PA VN 20 1.65 0.002321 ± 2.5 PA			VN	-10	4.27	0.006006	± 2.5	PASS
VN 10 3.47 0.004880 ± 2.5 PA VN 20 1.65 0.002321 ± 2.5 PA		11011	VN	0	-0.05	-0.000070	± 2.5	PASS
		HCH	VN	10	3.47	0.004880	± 2.5	PASS
VN 30 -1.09 -0.001533 ± 2.5 PA			VN	20	1.65	0.002321	± 2.5	PASS
			VN	30	-1.09	-0.001533	± 2.5	PASS
VN 40 2.39 0.003361 ± 2.5 PA			VN	40	2.39	0.003361	± 2.5	PASS



TEST Model: EGQ101

VN 50 -0.2 -0.000281 ± 2.5 PASS
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