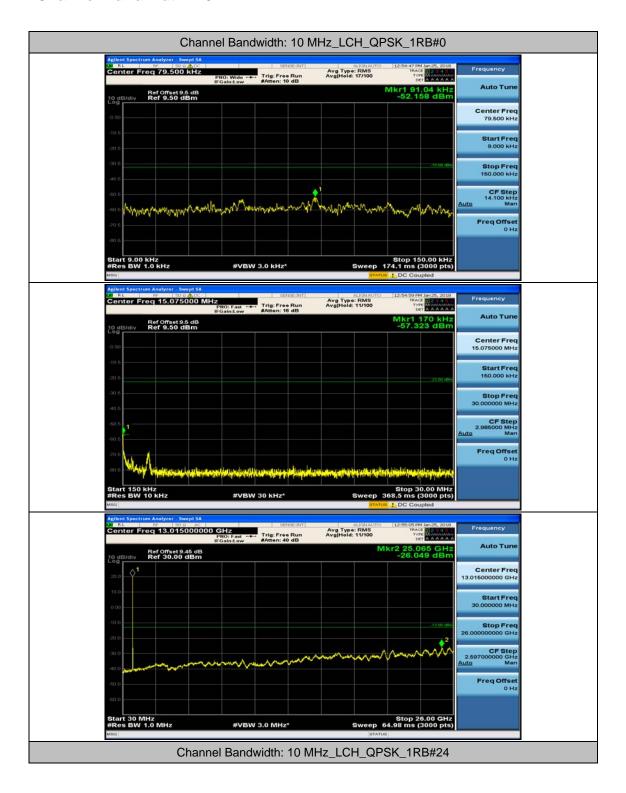
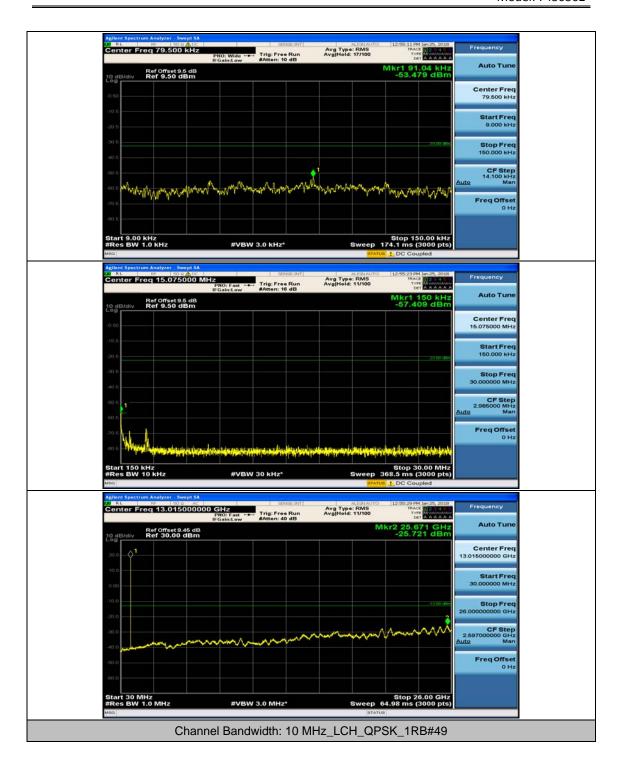




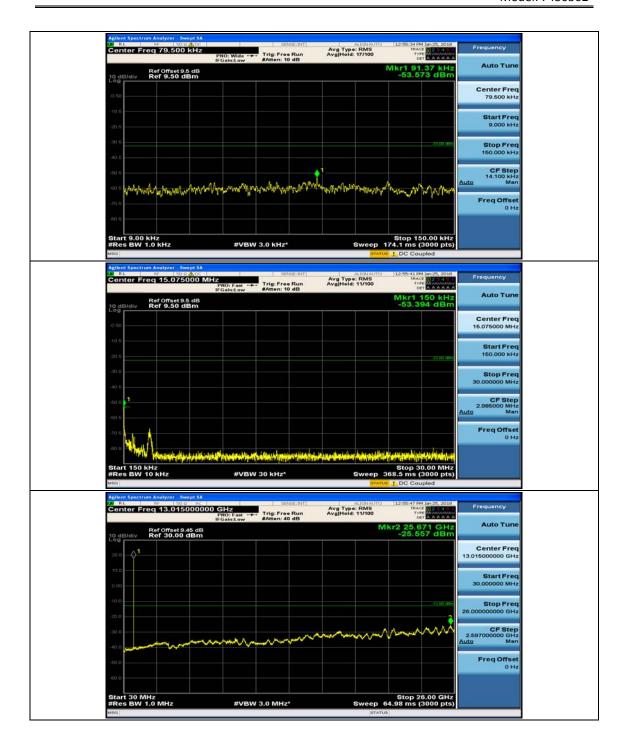
Channel Bandwidth: 10 MHz



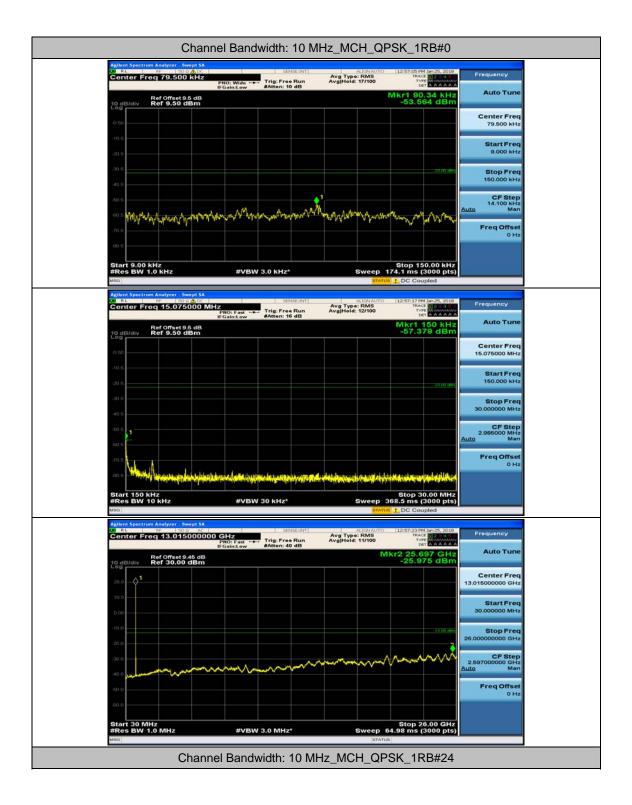




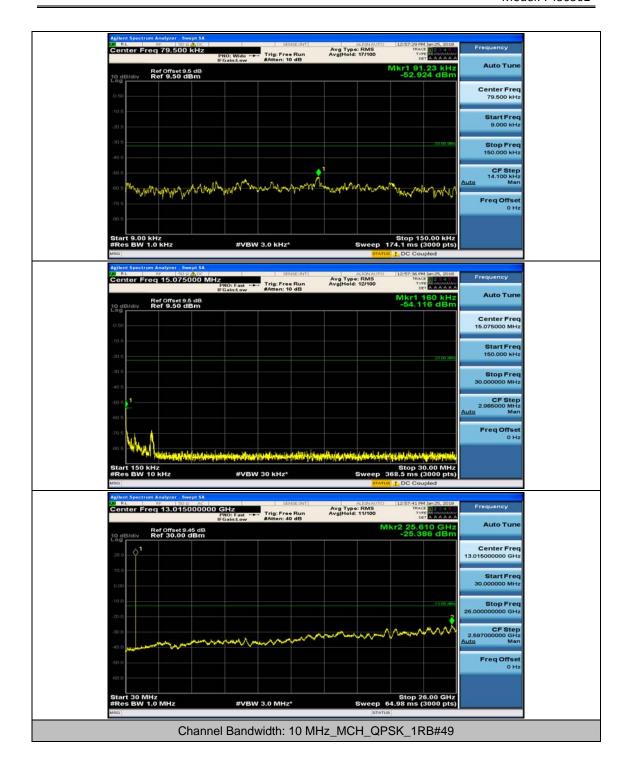




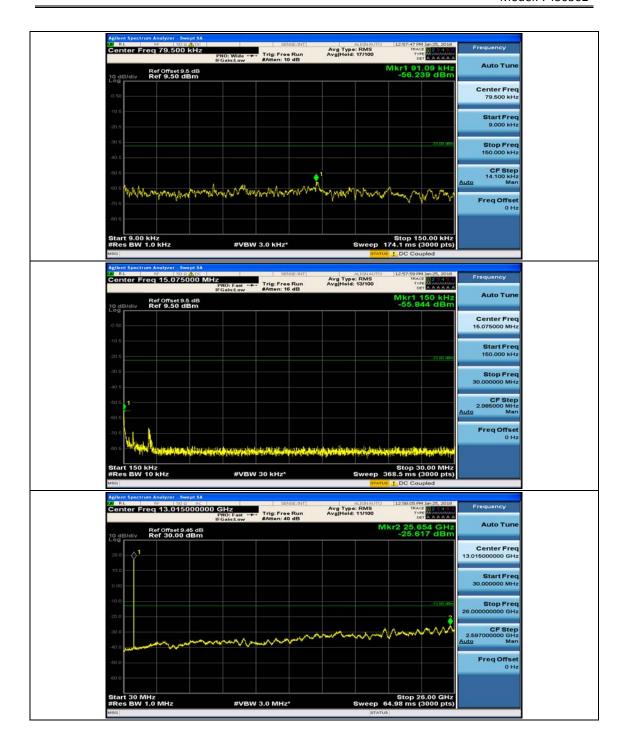




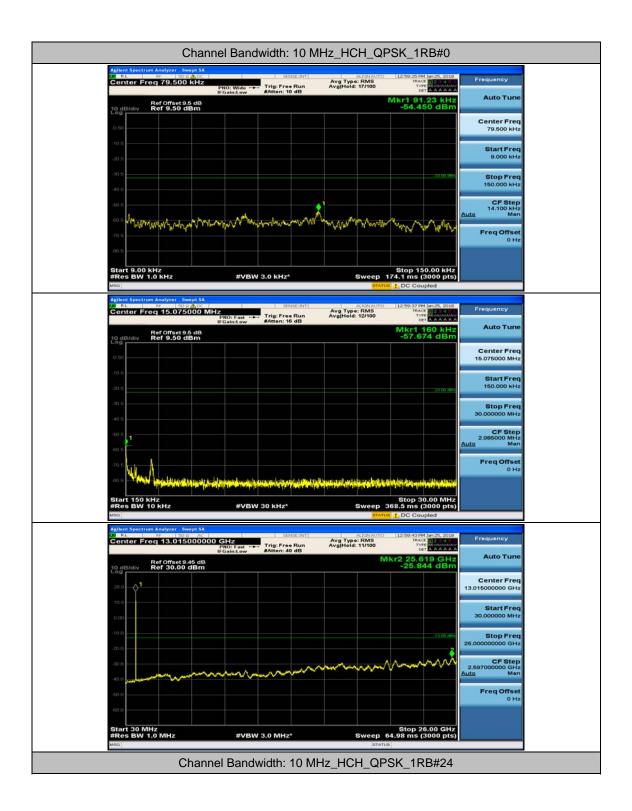




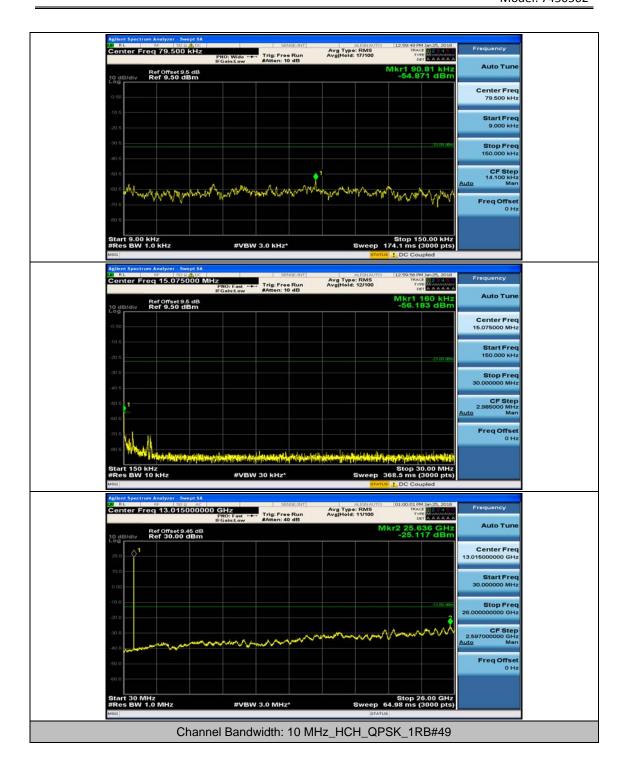




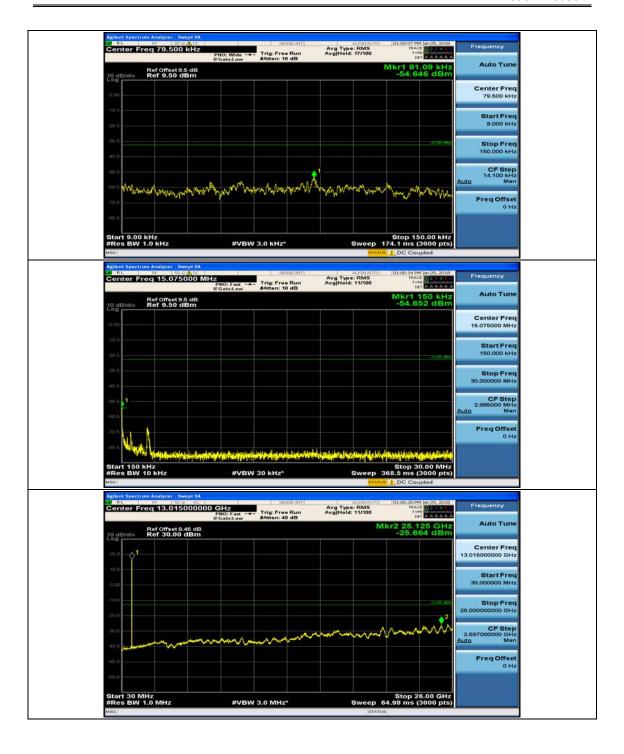




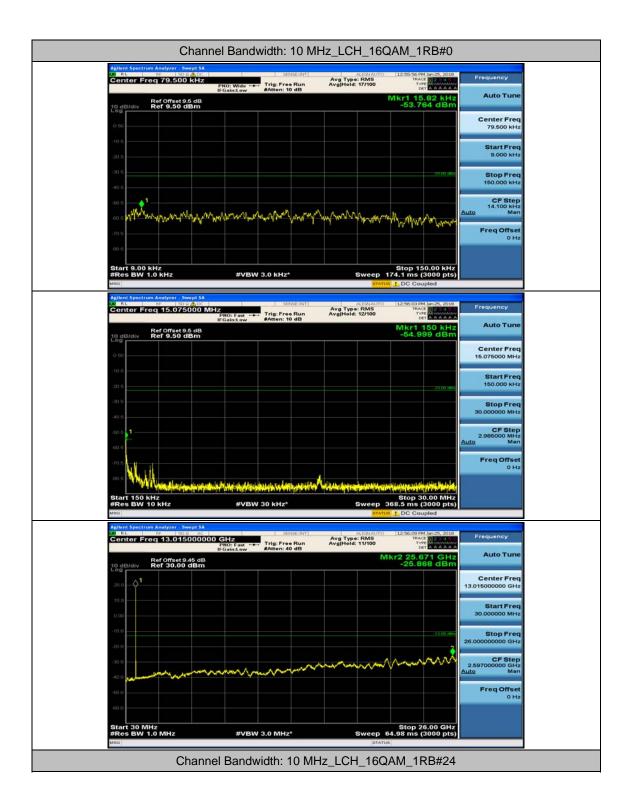




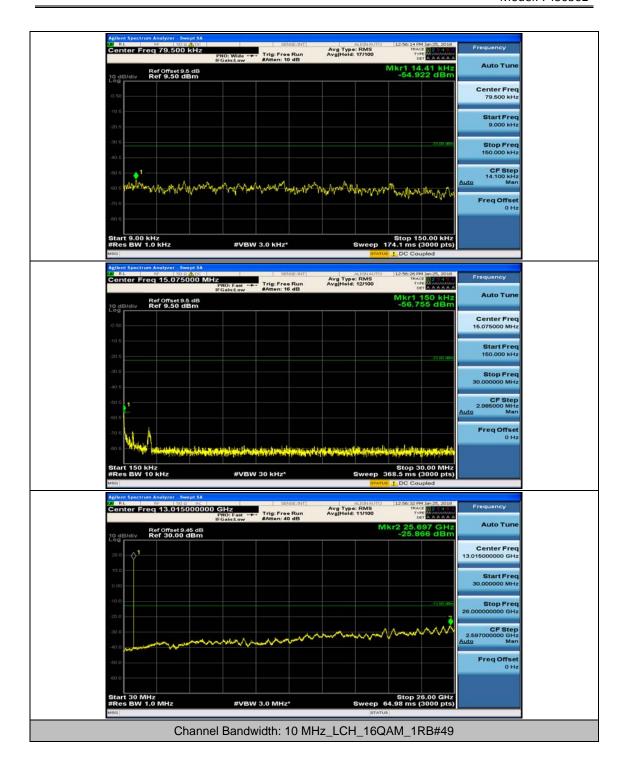




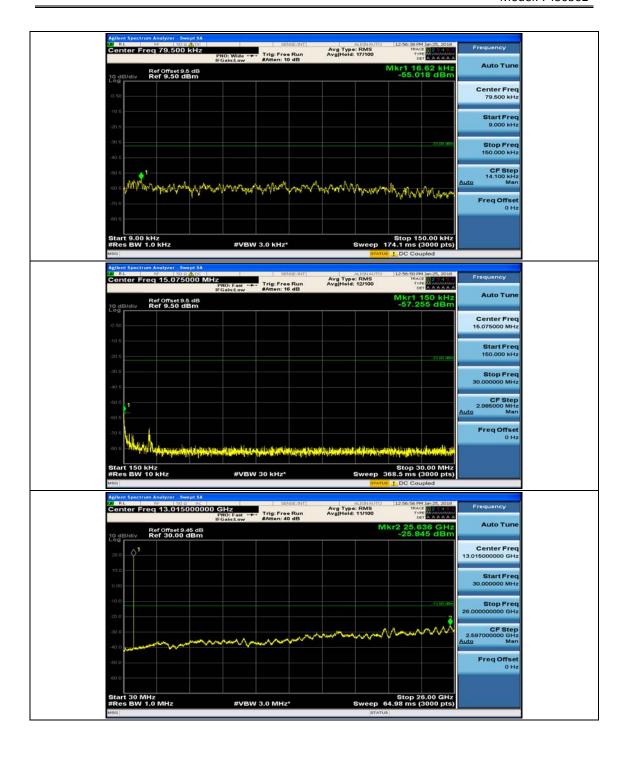




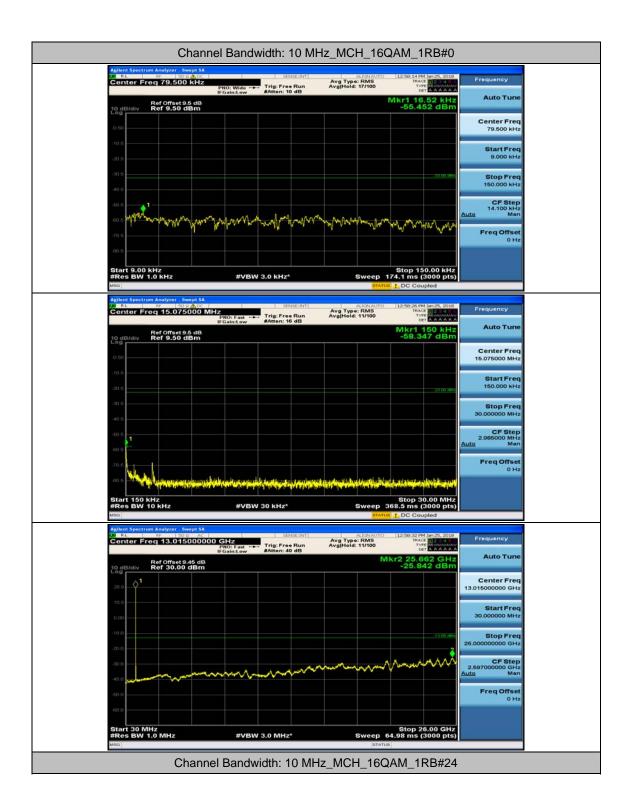




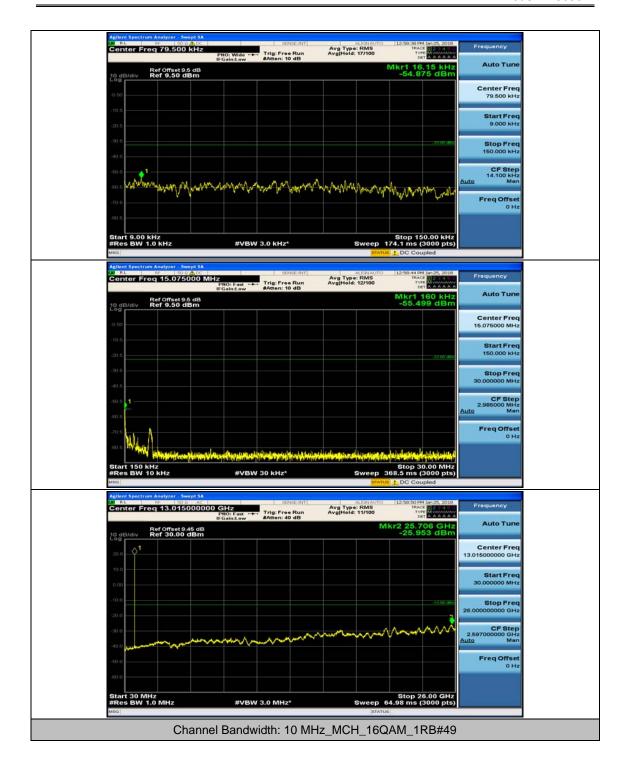




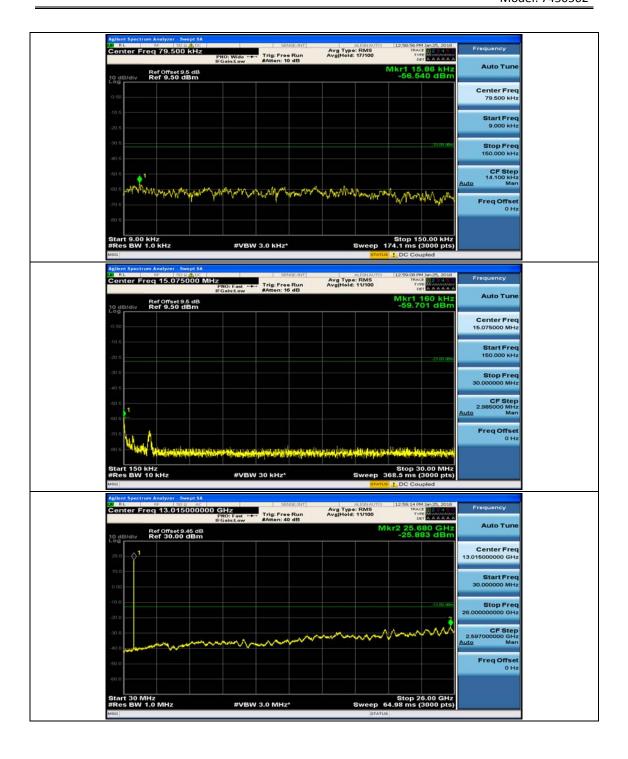




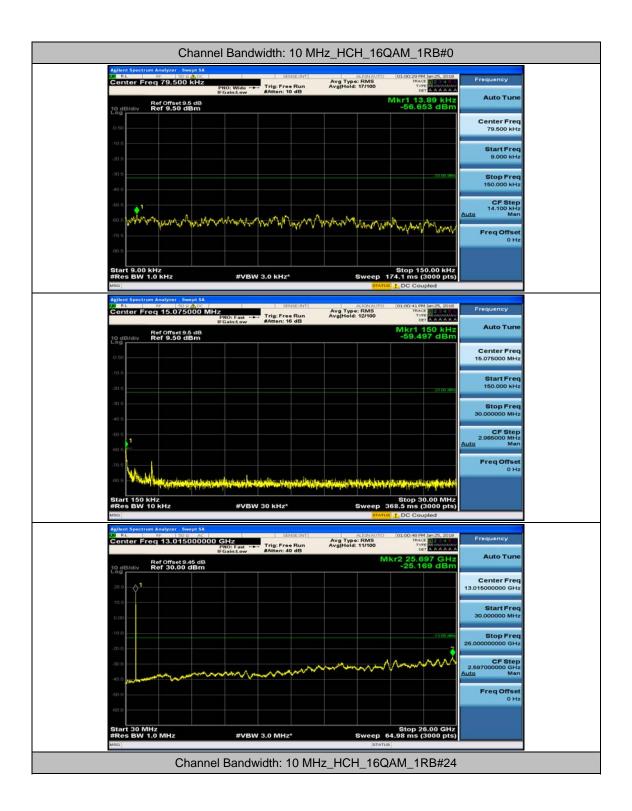




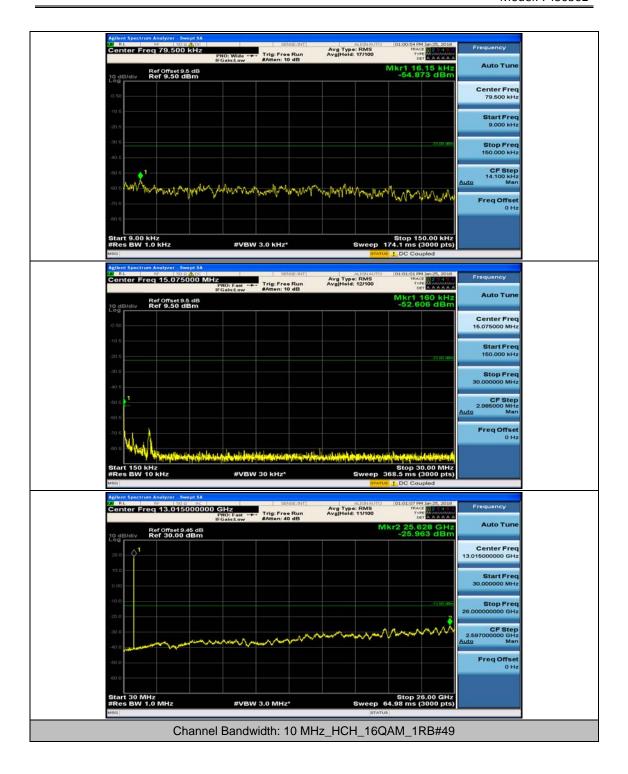




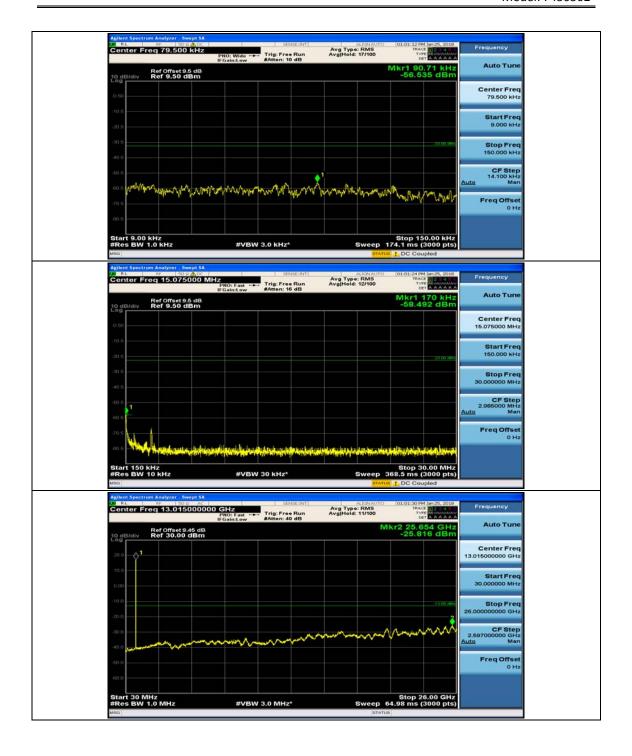














Appendix E: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

			Channel Band	width: 1.4 MHz						
Voltage										
Modulation	Channel	Voltage [Vdc]	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict			
		VL	TN	2.02	0.002449	± 2.5	PASS			
	LCH	VN	TN	-1.1	-0.001334	± 2.5	PASS			
		VH	TN	-0.34	-0.000406	± 2.5	PASS			
		VL	TN	-1.64	-0.001961	± 2.5	PASS			
QPSK	MCH	VN	TN	-1.62	-0.001937	± 2.5	PASS			
		VH	TN	4.45	0.005246	± 2.5	PASS			
		VL	TN	0.14	0.000165	± 2.5	PASS			
	HCH	VN	TN	-1.95	-0.002299	± 2.5	PASS			
		VH	TN	-0.88	-0.001067	± 2.5	PASS			
		VL	TN	4.49	0.005444	± 2.5	PASS			
	LCH	VN	TN	-0.37	-0.000449	± 2.5	PASS			
		VH	TN	4.38	0.005236	± 2.5	PASS			
	MCH	VL	TN	-0.34	-0.000406	± 2.5	PASS			
16QAM		VN	TN	0.61	0.000729	± 2.5	PASS			
		VH	TN	-1.06	-0.001250	± 2.5	PASS			
	нсн	VL	TN	4.64	0.005470	± 2.5	PASS			
		VN	TN	2.99	0.003525	± 2.5	PASS			
		VH	TN	2.02	0.002449	± 2.5	PASS			
			Tempe	erature	•					
Modulation	Channe I	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict			
		VN	-30	1.84	0.002231	± 2.5	PASS			
		VN	-20	-1.31	-0.001588	± 2.5	PASS			
		VN	-10	1	0.001213	± 2.5	PASS			
		VN	0	-0.58	-0.000703	± 2.5	PASS			
	LCH	VN	10	2.69	0.003262	± 2.5	PASS			
QPSK		VN	20	3.18	0.003856	± 2.5	PASS			
WL OV		VN	30	0.75	0.000909	± 2.5	PASS			
		VN	40	-0.91	-0.001103	± 2.5	PASS			
		VN	50	3.67	0.004450	± 2.5	PASS			
		VN	-30	0.33	0.000395	± 2.5	PASS			
	MCH	VN	-20	2.14	0.002558	± 2.5	PASS			
		VN	-10	-1.07	-0.001279	± 2.5	PASS			

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VN			\ /K!	0	0.05	0.000777	. 0.5	DACC
VN 20			VN	0	-0.65	-0.000777	± 2.5	PASS
VN 30								PASS
VN								PASS
VN 50								PASS
VN								PASS
HCH VN -20								PASS
HCH HCH VN 10 3.78 0.005717 ±2.5 P/ VN 0 3.78 0.004456 ±2.5 P/ VN 10 3.98 0.004692 ±2.5 P/ VN 20 4.88 0.005753 ±2.5 P/ VN 30 -0.26 -0.000306 ±2.5 P/ VN 50 -2 -0.002358 ±2.5 P/ VN -30 -1.3 -0.001576 ±2.5 P/ VN -20 2.15 0.002607 ±2.5 P/ VN -10 -0.19 -0.000230 ±2.5 P/ VN 10 2.07 0.002510 ±2.5 P/ VN 30 4.97 0.006026 ±2.5 P/ VN 30 4.97 0.000279 ±2.5 P/ VN 30 4.97 0.006026 ±2.5 P/ VN 30 4.97 0.000531 ±2.5 P/ VN 30 2.37 0.002794 ±2.5 P/ VN 30 2.37 0.002794 ±2.5 P/ VN 30 2.37 0.002794 ±2.5 P/ VN 30 0.044 -0.000534 ±2.5 P/ VN 10 0.06 0.000071 ±2.5 P/ VN 30 0.011 0.000102 ±2.5 P/ VN 30 0.011 0.000130 ±2.5 P/ VN 40 0.55 0.000648 ±2.5 P/ VN 40 0.001266 ±2.5 P/ VN 40 0.001911 ±2.5 P/ VN 40 0.001911 ±2.5 P/ VN 40 0.001911 4.61 0.0005434 ±2.5 P/ VN 4.78 0.005635 ±2.5 P/ VN 4.78								PASS
HCH HCH VN								PASS
HCH						+		PASS
VN 20						0.004456		PASS
VN 30		HCH	VN	10	3.98	0.004692	± 2.5	PASS
VN			VN	20	4.88		± 2.5	PASS
VN 50 -2 -0.002358 ± 2.5 P/2			VN	30	-0.26	-0.000306	± 2.5	PASS
No. -30 -1.3 -0.001576 ± 2.5 P/			VN	40	-0.71	-0.000837	± 2.5	PASS
LCH			VN	50	-2	-0.002358	± 2.5	PASS
LCH			VN	-30	-1.3	-0.001576	± 2.5	PASS
LCH			VN	-20	2.15	0.002607	± 2.5	PASS
ACH			VN	-10	-0.19	-0.000230	± 2.5	PASS
VN 20			VN	0	-0.23	-0.000279	± 2.5	PASS
NN 30 4.97 0.006026 ±2.5 P/VN 40 1.22 0.001479 ±2.5 P/VN 50 -0.44 -0.000534 ±2.5 P/VN -30 2.37 0.002794 ±2.5 P/VN -20 -0.01 -0.000012 ±2.5 P/VN -10 4.76 0.005611 ±2.5 P/VN 0 0 0.06 0.000071 ±2.5 P/VN 10 0.13 0.000153 ±2.5 P/VN 20 2.41 0.002841 ±2.5 P/VN 30 0.11 0.000130 ±2.5 P/VN 40 0.55 0.000648 ±2.5 P/VN 40 0.55 0.000648 ±2.5 P/VN 40 0.55 0.000648 ±2.5 P/VN -30 -1.74 -0.002051 ±2.5 P/VN -20 -1.04 -0.001226 ±2.5 P/VN -20 -1.04 -0.001226 ±2.5 P/VN -10 4.61 0.005434 ±2.5 P/VN -10 4.61 0.005434 ±2.5 P/VN -10 4.61 0.005434 ±2.5 P/VN -10 4.61 0.005635 ±2.5 P/VN -10 4.78 0.005635 ±2.5 P/V		LCH	VN	10	2.07	0.002510	± 2.5	PASS
NN			VN	20	-0.63	-0.000764	± 2.5	PASS
VN 50			VN	30	4.97	0.006026	± 2.5	PASS
VN			VN	40	1.22	0.001479	± 2.5	PASS
NO -20 -0.01 -0.000012 ± 2.5 P/2			VN	50	-0.44	-0.000534	± 2.5	PASS
NCH			VN	-30	2.37	0.002794	± 2.5	PASS
MCH			VN	-20	-0.01	-0.000012	± 2.5	PASS
MCH			VN	-10	4.76	0.005611	± 2.5	PASS
MCH VN 10 0.13 0.000153 ± 2.5 PA VN 20 2.41 0.002841 ± 2.5 PA VN 30 0.11 0.000130 ± 2.5 PA VN 40 0.55 0.000648 ± 2.5 PA VN 50 2.72 0.003206 ± 2.5 PA VN -30 -1.74 -0.002051 ± 2.5 PA VN -20 -1.04 -0.001226 ± 2.5 PA VN -10 4.61 0.005434 ± 2.5 PA VN 0 -1.01 -0.001191 ± 2.5 PA VN 10 4.78 0.005635 ± 2.5 PA	160 ^ 1/4		VN	0	0.06	0.000071	± 2.5	PASS
VN 30 0.11 0.000130 ± 2.5 PA VN 40 0.55 0.000648 ± 2.5 PA VN 50 2.72 0.003206 ± 2.5 PA VN -30 -1.74 -0.002051 ± 2.5 PA VN -20 -1.04 -0.001226 ± 2.5 PA VN -10 4.61 0.005434 ± 2.5 PA VN 0 -1.01 -0.001191 ± 2.5 PA VN 10 4.78 0.005635 ± 2.5 PA	IOQAW	MCH	VN	10	0.13	0.000153	± 2.5	PASS
VN 40 0.55 0.000648 ± 2.5 PA VN 50 2.72 0.003206 ± 2.5 PA VN -30 -1.74 -0.002051 ± 2.5 PA VN -20 -1.04 -0.001226 ± 2.5 PA VN -10 4.61 0.005434 ± 2.5 PA VN 0 -1.01 -0.001191 ± 2.5 PA VN 10 4.78 0.005635 ± 2.5 PA			VN	20	2.41	0.002841	± 2.5	PASS
VN 50 2.72 0.003206 ± 2.5 PA VN -30 -1.74 -0.002051 ± 2.5 PA VN -20 -1.04 -0.001226 ± 2.5 PA VN -10 4.61 0.005434 ± 2.5 PA VN 0 -1.01 -0.001191 ± 2.5 PA VN 10 4.78 0.005635 ± 2.5 PA			VN	30	0.11	0.000130	± 2.5	PASS
VN -30 -1.74 -0.002051 ± 2.5 PA VN -20 -1.04 -0.001226 ± 2.5 PA VN -10 4.61 0.005434 ± 2.5 PA VN 0 -1.01 -0.001191 ± 2.5 PA VN 10 4.78 0.005635 ± 2.5 PA			VN	40	0.55	0.000648	± 2.5	PASS
VN -20 -1.04 -0.001226 ± 2.5 PA VN -10 4.61 0.005434 ± 2.5 PA VN 0 -1.01 -0.001191 ± 2.5 PA VN 10 4.78 0.005635 ± 2.5 PA			VN	50	2.72	0.003206	± 2.5	PASS
HCH			VN	-30	-1.74	-0.002051	± 2.5	PASS
HCH			VN	-20	-1.04	-0.001226	± 2.5	PASS
HCH VN 10 4.78 0.005635 ± 2.5 PA			VN	-10	4.61	0.005434	± 2.5	PASS
VN 10 4.78 0.005635 ± 2.5 PA			VN	0	-1.01	-0.001191	± 2.5	PASS
		HCH	VN	10	4.78	0.005635	± 2.5	PASS
VN 20 2.94 0.003466 ± 2.5 P/			VN	20	2.94	0.003466	± 2.5	PASS
VN 30 3.96 0.004668 ± 2.5 PA			VN	30	3.96	0.004668	± 2.5	PASS
VN 40 -0.31 -0.000365 ± 2.5 PA			VN	40	-0.31	-0.000365	± 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				
		VL	TN	0.16	0.000194	± 2.5	PASS				
	LCH	VN	TN	-0.94	-0.001139	± 2.5	PASS				
		VH	TN	0.26	0.000315	± 2.5	PASS				
		VL	TN	-1.66	-0.001984	± 2.5	PASS				
QPSK	MCH	VN	TN	3.39	0.004053	± 2.5	PASS				
		VH	TN	2	0.002391	± 2.5	PASS				
		VL	TN	0.38	0.000448	± 2.5	PASS				
	HCH	VN	TN	2.93	0.003457	± 2.5	PASS				
		VH	TN	0.23	0.000271	± 2.5	PASS				
		VL	TN	3.74	0.004531	± 2.5	PASS				
	LCH	VN	TN	3.26	0.003949	± 2.5	PASS				
		VH	TN	0.74	0.000896	± 2.5	PASS				
		VL	TN	0.47	0.000562	± 2.5	PASS				
16QAM	MCH	VN	TN	2.22	0.002654	± 2.5	PASS				
		VH	TN	2.1	0.002510	± 2.5	PASS				
	НСН	VL	TN	1.1	0.001298	± 2.5	PASS				
		VN	TN	2.54	0.002997	± 2.5	PASS				
		VH	TN	4.07	0.004802	± 2.5	PASS				
			Tempe	erature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict				
		VN	-30	-1.75	-0.002120	± 2.5	PASS				
		VN	-20	4.86	0.005887	± 2.5	PASS				
		VN	-10	1.58	0.001914	± 2.5	PASS				
		VN	0	4.05	0.004906	± 2.5	PASS				
	LCH	VN	10	2.71	0.003283	± 2.5	PASS				
		VN	20	2.93	0.003549	± 2.5	PASS				
QPSK		VN	30	1.18	0.001429	± 2.5	PASS				
QFSN		VN	40	0.54	0.000654	± 2.5	PASS				
		VN	50	4.64	0.005621	± 2.5	PASS				
		VN	-30	3.89	0.004650	± 2.5	PASS				
		VN	-20	-0.07	-0.000084	± 2.5	PASS				
	MCH	VN	-10	2.18	0.002606	± 2.5	PASS				
		VN	0	-0.87	-0.001040	± 2.5	PASS				
		VN	10	0.32	0.000383	± 2.5	PASS				



		VN	20	1.04	0.001243	± 2.5	PASS
		VN	30	-1.28	-0.001530	± 2.5	PASS
		VN	40	2.64	0.003156	± 2.5	PASS
		VN	50	1.28	0.001530	± 2.5	PASS
		VN	-30	-0.44	-0.000519	± 2.5	PASS
		VN	-20	4.94	0.005829	± 2.5	PASS
		VN	-10	2.4	0.002832	± 2.5	PASS
		VN	0	3.48	0.004106	± 2.5	PASS
	HCH	VN	10	3.97	0.004684	± 2.5	PASS
		VN	20	-1.16	-0.001369	± 2.5	PASS
		VN	30	3.63	0.004283	± 2.5	PASS
		VN	40	3.05	0.003599	± 2.5	PASS
		VN	50	1.42	0.001676	± 2.5	PASS
		VN	-30	-0.41	-0.000490	± 2.5	PASS
		VN	-20	0.87	0.001040	± 2.5	PASS
		VN	-10	1.04	0.001243	± 2.5	PASS
		VN	0	3.42	0.004088	± 2.5	PASS
	LCH	VN	10	0.73	0.000873	± 2.5	PASS
		VN	20	-1.56	-0.001865	± 2.5	PASS
		VN	30	-1.86	-0.002224	± 2.5	PASS
		VN	40	0.45	0.000538	± 2.5	PASS
		VN	50	-0.41	-0.000490	± 2.5	PASS
		VN	-30	1.81	0.002136	± 2.5	PASS
		VN	-20	0.64	0.000755	± 2.5	PASS
		VN	-10	4.28	0.005050	± 2.5	PASS
		VN	0	2.86	0.003375	± 2.5	PASS
16QAM	МСН	VN	10	2.39	0.002820	± 2.5	PASS
		VN	20	-0.04	-0.000047	± 2.5	PASS
		VN	30	2.42	0.002855	± 2.5	PASS
		VN	40	4.87	0.005746	± 2.5	PASS
		VN	50	3.35	0.003953	± 2.5	PASS
		VN	-30	-1.02	-0.001204	± 2.5	PASS
		VN	-20	2.38	0.002808	± 2.5	PASS
		VN	-10	-1.8	-0.002124	± 2.5	PASS
		VN	0	0.76	0.000897	± 2.5	PASS
	HCH	VN	10	0.91	0.001074	± 2.5	PASS
		VN	20	1.38	0.001628	± 2.5	PASS
		VN	30	2.7	0.003186	± 2.5	PASS
		VN	40	0.76	0.000897	± 2.5	PASS
		VN	50	-0.92	-0.001086	± 2.5	PASS



Channel Bandwidth: 5 MHz

Nodulation Channel Voltage Temperature Channel Voltage Temperature Channel Voltage Temperature Channel Channel Voltage Temperature Channel Chann				Channel Ban	dwidth: 5 MHz			
Victor V				Vol	tage			
CH	Modulation	Channel						Verdict
VH			VL	TN	3.59	0.004344	± 2.5	PASS
QPSK MCH VL TN 0.98 0.001172 ± 2.5 PASS VH TN 2.49 0.002977 ± 2.5 PASS VH TN 3.65 0.004363 ± 2.5 PASS VL TN -0.35 -0.000413 ± 2.5 PASS VH TN 4.4 0.005198 ± 2.5 PASS VH TN 4.42 0.004985 ± 2.5 PASS VH TN 0.91 0.001101 ± 2.5 PASS VL TN 0.91 0.001101 ± 2.5 PASS VH TN 4.42 0.005348 ± 2.5 PASS VL TN -0.72 -0.000861 ± 2.5 PASS VH TN 1.41 -0.001686 ± 2.5 PASS VH TN 4.35 0.005139 ± 2.5 PASS WH TN 4.35 0.005139 ± 2.5 PASS <td< td=""><td></td><td>LCH</td><td>VN</td><td>TN</td><td>4.32</td><td>0.005227</td><td>± 2.5</td><td>PASS</td></td<>		LCH	VN	TN	4.32	0.005227	± 2.5	PASS
MCH			VH	TN	0.78	0.000944	± 2.5	PASS
VH			VL	TN	0.98	0.001172	± 2.5	PASS
HCH	QPSK	MCH	VN	TN	2.49	0.002977	± 2.5	PASS
HCH			VH	TN	3.65	0.004363	± 2.5	PASS
VH			VL	TN	-0.35	-0.000413	± 2.5	PASS
LCH		HCH	VN	TN	4.4	0.005198	± 2.5	PASS
LCH			VH	TN	4.22	0.004985	± 2.5	PASS
NCH			VL	TN	0.91	0.001101	± 2.5	PASS
Name		LCH	VN	TN	2.31	0.002795	± 2.5	PASS
MCH			VH	TN	4.42	0.005348	± 2.5	PASS
VH		MCH	VL	TN	-0.72	-0.000861	± 2.5	PASS
Note	16QAM		VN	TN	2.63	0.003144	± 2.5	PASS
HCH			VH	TN	-1.41	-0.001686	± 2.5	PASS
VH		НСН	VL	TN	4.99	0.005895	± 2.5	PASS
Nodulation Channel Voltage Temperature Deviation (Hz) Deviation (ppm) Verdict (P			VN	TN	4.35	0.005139	± 2.5	PASS
Modulation Channel Voltage [Vdc] Temperature (°C) Deviation (Hz) Deviation (ppm) Limit (ppm) Verdict (ppm) VN -30 -0.78 -0.000944 ± 2.5 PASS VN -20 2.9 0.003509 ± 2.5 PASS VN -10 0.98 0.001186 ± 2.5 PASS VN 0 1.84 0.002226 ± 2.5 PASS VN 10 2.82 0.003412 ± 2.5 PASS VN 20 0.31 0.00375 ± 2.5 PASS VN 30 1.12 0.001355 ± 2.5 PASS VN 40 5 0.006050 ± 2.5 PASS VN 50 -0.58 -0.000702 ± 2.5 PASS VN -30 -1.59 -0.001901 ± 2.5 PASS VN -20 3.91 0.004674 ± 2.5 PASS VN -10 4.94 0.005906			VH	TN	4.11	0.004855	± 2.5	PASS
VN				Temp	erature			
PASS VN -20 2.9 0.003509 ±2.5 PASS VN -10 0.98 0.001186 ±2.5 PASS VN 0 1.84 0.002226 ±2.5 PASS VN 20 0.31 0.000375 ±2.5 PASS VN 30 1.12 0.001355 ±2.5 PASS VN 40 5 0.006050 ±2.5 PASS VN 50 -0.58 -0.000702 ±2.5 PASS VN -30 -1.59 -0.001901 ±2.5 PASS VN -20 3.91 0.004674 ±2.5 PASS VN -10 4.94 0.005906 ±2.5 PASS VN 10 1.64 0.001961 ±2.5 PASS VN 10 1.64 0.001961 ±2.5 PASS	Modulation	Channel						Verdict
PASS VN			VN	-30	-0.78	-0.000944	± 2.5	PASS
VN 0 1.84 0.002226 ± 2.5 PASS VN 10 2.82 0.003412 ± 2.5 PASS VN 20 0.31 0.000375 ± 2.5 PASS VN 30 1.12 0.001355 ± 2.5 PASS VN 40 5 0.006050 ± 2.5 PASS VN 50 -0.58 -0.000702 ± 2.5 PASS VN -30 -1.59 -0.001901 ± 2.5 PASS VN -20 3.91 0.004674 ± 2.5 PASS VN -10 4.94 0.005906 ± 2.5 PASS VN 10 1.64 0.001961 ± 2.5 PASS VN 10 1.64 0.001961 ± 2.5 PASS VN 20 -1.72 -0.002056 ± 2.5 PASS			VN	-20	2.9	0.003509	± 2.5	PASS
QPSK VN 10 2.82 0.003412 ± 2.5 PASS VN 20 0.31 0.000375 ± 2.5 PASS VN 30 1.12 0.001355 ± 2.5 PASS VN 40 5 0.006050 ± 2.5 PASS VN 50 -0.58 -0.000702 ± 2.5 PASS VN -30 -1.59 -0.001901 ± 2.5 PASS VN -20 3.91 0.004674 ± 2.5 PASS VN -10 4.94 0.005906 ± 2.5 PASS VN 10 1.64 0.001961 ± 2.5 PASS VN 20 -1.72 -0.002056 ± 2.5 PASS			VN	-10	0.98	0.001186	± 2.5	PASS
VN 20 0.31 0.000375 ± 2.5 PASS VN 30 1.12 0.001355 ± 2.5 PASS VN 40 5 0.006050 ± 2.5 PASS VN 50 -0.58 -0.000702 ± 2.5 PASS VN -30 -1.59 -0.001901 ± 2.5 PASS VN -20 3.91 0.004674 ± 2.5 PASS VN -10 4.94 0.005906 ± 2.5 PASS VN 0 2.6 0.003108 ± 2.5 PASS VN 10 1.64 0.001961 ± 2.5 PASS VN 20 -1.72 -0.002056 ± 2.5 PASS			VN	0	1.84	0.002226	± 2.5	PASS
QPSK VN		LCH	VN	10	2.82	0.003412	± 2.5	PASS
VN 40 5 0.006050 ± 2.5 PASS VN 50 -0.58 -0.000702 ± 2.5 PASS VN -30 -1.59 -0.001901 ± 2.5 PASS VN -20 3.91 0.004674 ± 2.5 PASS VN -10 4.94 0.005906 ± 2.5 PASS VN 0 2.6 0.003108 ± 2.5 PASS VN 10 1.64 0.001961 ± 2.5 PASS VN 20 -1.72 -0.002056 ± 2.5 PASS			VN	20	0.31	0.000375	± 2.5	PASS
VN 50 -0.58 -0.000702 ± 2.5 PASS VN -30 -1.59 -0.001901 ± 2.5 PASS VN -20 3.91 0.004674 ± 2.5 PASS VN -10 4.94 0.005906 ± 2.5 PASS VN 0 2.6 0.003108 ± 2.5 PASS VN 10 1.64 0.001961 ± 2.5 PASS VN 20 -1.72 -0.002056 ± 2.5 PASS			VN	30	1.12	0.001355	± 2.5	PASS
VN 50 -0.58 -0.000702 ± 2.5 PASS VN -30 -1.59 -0.001901 ± 2.5 PASS VN -20 3.91 0.004674 ± 2.5 PASS VN -10 4.94 0.005906 ± 2.5 PASS VN 0 2.6 0.003108 ± 2.5 PASS VN 10 1.64 0.001961 ± 2.5 PASS VN 20 -1.72 -0.002056 ± 2.5 PASS	OPSK		VN	40	5	0.006050	± 2.5	PASS
VN -20 3.91 0.004674 ± 2.5 PASS VN -10 4.94 0.005906 ± 2.5 PASS VN 0 2.6 0.003108 ± 2.5 PASS VN 10 1.64 0.001961 ± 2.5 PASS VN 20 -1.72 -0.002056 ± 2.5 PASS	QI SIN		VN	50	-0.58	-0.000702	± 2.5	PASS
VN -10 4.94 0.005906 ± 2.5 PASS VN 0 2.6 0.003108 ± 2.5 PASS VN 10 1.64 0.001961 ± 2.5 PASS VN 20 -1.72 -0.002056 ± 2.5 PASS			VN	-30	-1.59	-0.001901	± 2.5	PASS
MCH VN 0 2.6 0.003108 ± 2.5 PASS VN 10 1.64 0.001961 ± 2.5 PASS VN 20 -1.72 -0.002056 ± 2.5 PASS			VN	-20	3.91	0.004674	± 2.5	PASS
VN 10 1.64 0.001961 ± 2.5 PASS VN 20 -1.72 -0.002056 ± 2.5 PASS			VN	-10	4.94	0.005906	± 2.5	PASS
VN 20 -1.72 -0.002056 ± 2.5 PASS		MCH	VN	0	2.6	0.003108	± 2.5	PASS
			VN	10	1.64	0.001961	± 2.5	PASS
VN 30 1.3 0.001554 ± 2.5 PASS			VN	20	-1.72	-0.002056	± 2.5	PASS
			VN	30	1.3	0.001554	± 2.5	PASS



		VN	40	2	0.002391	± 2.5	PASS
		VN	50	0.66	0.000789	± 2.5	PASS
		VN	-30	-1.23	-0.001453	± 2.5	PASS
		VN	-20	2.52	0.002977	± 2.5	PASS
		VN	-10	3.95	0.004666	± 2.5	PASS
		VN	0	2.04	0.002410	± 2.5	PASS
	нсн	VN	10	4.35	0.005139	± 2.5	PASS
		VN	20	2.73	0.003225	± 2.5	PASS
		VN	30	4.38	0.005174	± 2.5	PASS
		VN	40	-0.14	-0.000165	± 2.5	PASS
		VN	50	1.4	0.001654	± 2.5	PASS
		VN	-30	3.75	0.004483	± 2.5	PASS
		VN	-20	3.75	0.004483	± 2.5	PASS
		VN	-10	2.75	0.003288	± 2.5	PASS
		VN	0	-1.57	-0.001877	± 2.5	PASS
	LCH	VN	10	1.68	0.002008	± 2.5	PASS
		VN	20	0.7	0.000837	± 2.5	PASS
		VN	30	-0.34	-0.000406	± 2.5	PASS
		VN	40	-1.84	-0.002200	± 2.5	PASS
		VN	50	0	0.000000	± 2.5	PASS
		VN	-30	2.54	0.003001	± 2.5	PASS
		VN	-20	4.35	0.005139	± 2.5	PASS
		VN	-10	-1.45	-0.001713	± 2.5	PASS
		VN	0	4.44	0.005245	± 2.5	PASS
16QAM	MCH	VN	10	-0.99	-0.001170	± 2.5	PASS
		VN	20	0.22	0.000260	± 2.5	PASS
		VN	30	1.82	0.002150	± 2.5	PASS
		VN	40	4.65	0.005493	± 2.5	PASS
	<u></u>	VN	50	2.09	0.002469	± 2.5	PASS
		VN	-30	3.9	0.004607	± 2.5	PASS
		VN	-20	-1.95	-0.002304	± 2.5	PASS
		VN	-10	-0.42	-0.000496	± 2.5	PASS
		VN	0	-1.58	-0.001867	± 2.5	PASS
	нсн	VN	10	-1.69	-0.001996	± 2.5	PASS
		VN	20	2.66	0.003142	± 2.5	PASS
		VN	30	2.72	0.003213	± 2.5	PASS
		VN	40	0.55	0.000650	± 2.5	PASS
		VN	50	3.06	0.003615	± 2.5	PASS
		•	•	•	=	•	

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz



Ī			Vol	age			
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
		VL	TN	-1.48	-0.001785	± 2.5	PASS
	LCH	VN	TN	-2	-0.002413	± 2.5	PASS
		VH	TN	3.47	0.004186	± 2.5	PASS
		VL	TN	3.37	0.004029	± 2.5	PASS
QPSK	MCH	VN	TN	-0.53	-0.000634	± 2.5	PASS
		VH	TN	-0.14	-0.000167	± 2.5	PASS
		VL	TN	2.72	0.003223	± 2.5	PASS
	HCH	VN	TN	0.36	0.000427	± 2.5	PASS
		VH	TN	3.01	0.003566	± 2.5	PASS
		VL	TN	4.02	0.004849	± 2.5	PASS
	LCH	VN	TN	0.82	0.000989	± 2.5	PASS
		VH	TN	-0.49	-0.000591	± 2.5	PASS
		VL	TN	4.3	0.005140	± 2.5	PASS
16QAM	MCH	VN	TN	4.85	0.005798	± 2.5	PASS
		VH	TN	4.74	0.005666	± 2.5	PASS
	НСН	VL	TN	1.32	0.001564	± 2.5	PASS
		VN	TN	4.19	0.004964	± 2.5	PASS
		VH	TN	-0.41	-0.000486	± 2.5	PASS
			Tempe	erature			
Modulation	Channel	Voltage	Temperature	Deviation	Deviation	Limit	
	Onamici	[Vdc]	(℃)	(Hz)	(ppm)	(ppm)	Verdict
	Onamici						Verdict PASS
	Ondrine	[Vdc]	(°C)	(Hz)	(ppm)	(ppm)	
	Chamer	[Vdc] VN	·(℃) -30	(Hz) -0.95	(ppm) -0.001146	(ppm) ± 2.5	PASS
	Chamer	[Vdc] VN VN	-30 -20	(Hz) -0.95 1.82	(ppm) -0.001146 0.002195	(ppm) ± 2.5 ± 2.5	PASS PASS
	LCH	[Vdc] VN VN VN	-20 -10	(Hz) -0.95 1.82 -0.44	(ppm) -0.001146 0.002195 -0.000531	(ppm) ± 2.5 ± 2.5 ± 2.5	PASS PASS PASS
		[Vdc] VN VN VN VN VN	-20 -10 0	-0.95 1.82 -0.44 3.08	(ppm) -0.001146 0.002195 -0.000531 0.003715	(ppm) ± 2.5 ± 2.5 ± 2.5 ± 2.5	PASS PASS PASS
		[Vdc] VN VN VN VN VN VN VN	-20 -10 0	(Hz) -0.95 1.82 -0.44 3.08 -1.44	(ppm) -0.001146 0.002195 -0.000531 0.003715 -0.001737	(ppm) ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5	PASS PASS PASS PASS PASS
		[Vdc]	-20 -10 0 10 20	(Hz) -0.95 1.82 -0.44 3.08 -1.44 3.71	(ppm) -0.001146 0.002195 -0.000531 0.003715 -0.001737 0.004475	(ppm) ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5	PASS PASS PASS PASS PASS PASS
16OAM		[Vdc]	(°C) -30 -20 -10 0 10 20 30	(Hz) -0.95 1.82 -0.44 3.08 -1.44 3.71 3.85	(ppm) -0.001146 0.002195 -0.000531 0.003715 -0.001737 0.004475 0.004644	(ppm) ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5	PASS PASS PASS PASS PASS PASS PASS
16QAM		[Vdc]	-20 -10 0 10 20 30 40	(Hz) -0.95 1.82 -0.44 3.08 -1.44 3.71 3.85 0.62	(ppm) -0.001146 0.002195 -0.000531 0.003715 -0.001737 0.004475 0.004644 0.000748	(ppm) ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5	PASS PASS PASS PASS PASS PASS PASS PASS
16QAM		[Vdc]	-20 -10 0 10 20 30 40 50	(Hz) -0.95 1.82 -0.44 3.08 -1.44 3.71 3.85 0.62 0.64	(ppm) -0.001146 0.002195 -0.000531 0.003715 -0.001737 0.004475 0.004644 0.000748 0.000772	(ppm) ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5	PASS PASS PASS PASS PASS PASS PASS PASS
16QAM		[Vdc]	(°C) -30 -20 -10 0 10 20 30 40 50 -30	(Hz) -0.95 1.82 -0.44 3.08 -1.44 3.71 3.85 0.62 0.64 2.8	(ppm) -0.001146 0.002195 -0.000531 0.003715 -0.001737 0.004475 0.004644 0.000748 0.000772 0.003347	(ppm) ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5	PASS PASS PASS PASS PASS PASS PASS PASS
16QAM		[Vdc]	(°C) -30 -20 -10 0 10 20 30 40 50 -30 -20	(Hz) -0.95 1.82 -0.44 3.08 -1.44 3.71 3.85 0.62 0.64 2.8 1.36	(ppm) -0.001146 0.002195 -0.000531 0.003715 -0.001737 0.004475 0.004644 0.000748 0.000772 0.003347 0.001626	(ppm) ± 2.5 ± 2.5	PASS PASS PASS PASS PASS PASS PASS PASS
16QAM		[Vdc]	(°C) -30 -20 -10 0 10 20 30 40 50 -30 -20 -10	(Hz) -0.95 1.82 -0.44 3.08 -1.44 3.71 3.85 0.62 0.64 2.8 1.36 -1.05	(ppm) -0.001146 0.002195 -0.000531 0.003715 -0.001737 0.004475 0.004644 0.000748 0.000772 0.003347 0.001626 -0.001255	(ppm) ± 2.5 ± 2.5	PASS PASS PASS PASS PASS PASS PASS PASS
16QAM	LCH	[Vdc]	(°C) -30 -20 -10 0 10 20 30 40 50 -30 -20 -10 0	(Hz) -0.95 1.82 -0.44 3.08 -1.44 3.71 3.85 0.62 0.64 2.8 1.36 -1.05 4.76	(ppm) -0.001146 0.002195 -0.000531 0.003715 -0.001737 0.004475 0.004644 0.000748 0.000772 0.003347 0.001626 -0.001255 0.005690	(ppm) ± 2.5 ± 2.5	PASS PASS PASS PASS PASS PASS PASS PASS
16QAM	LCH	[Vdc]	(°C) -30 -20 -10 0 10 20 30 40 50 -30 -20 -10 0 10	(Hz) -0.95 1.82 -0.44 3.08 -1.44 3.71 3.85 0.62 0.64 2.8 1.36 -1.05 4.76 -1.46	(ppm) -0.001146 0.002195 -0.000531 0.003715 -0.001737 0.004475 0.004644 0.000748 0.000772 0.003347 0.001626 -0.001255 0.005690 -0.001745	(ppm) ± 2.5 ± 2.5	PASS PASS PASS PASS PASS PASS PASS PASS
16QAM	LCH	[Vdc]	(°C) -30 -20 -10 0 10 20 30 40 50 -30 -20 -10 0 10 20	(Hz) -0.95 1.82 -0.44 3.08 -1.44 3.71 3.85 0.62 0.64 2.8 1.36 -1.05 4.76 -1.46 -1.38	(ppm) -0.001146 0.002195 -0.000531 0.003715 -0.001737 0.004475 0.004644 0.000748 0.000772 0.003347 0.001626 -0.001255 0.005690 -0.001745 -0.001650	(ppm) ± 2.5 ± 2.5	PASS PASS PASS PASS PASS PASS PASS PASS



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		VN	-30	4.24	0.005024	± 2.5	PASS
		VN	-20	2.52	0.002986	± 2.5	PASS
		VN	-10	1.7	0.002014	± 2.5	PASS
		VN	0	3.33	0.003945	± 2.5	PASS
	HCH	VN	10	-1.46	-0.001730	± 2.5	PASS
		VN	20	-0.08	-0.000095	± 2.5	PASS
		VN	30	4.42	0.005237	± 2.5	PASS
		VN	40	0.69	0.000818	± 2.5	PASS
		VN	50	0.17	0.000201	± 2.5	PASS
		VN	-30	0.37	0.000442	± 2.5	PASS
		VN	-20	3.45	0.004124	± 2.5	PASS
		VN	-10	-0.02	-0.000024	± 2.5	PASS
		VN	0	-1.47	-0.001757	± 2.5	PASS
	LCH	VN	10	3.82	0.004567	± 2.5	PASS
		VN	20	2.37	0.002833	± 2.5	PASS
		VN	30	-0.72	-0.000861	± 2.5	PASS
		VN	40	-1.88	-0.002247	± 2.5	PASS
		VN	50	2.07	0.002475	± 2.5	PASS
	мсн	VN	-30	3.97	0.004704	± 2.5	PASS
		VN	-20	2.8	0.003318	± 2.5	PASS
		VN	-10	3.8	0.004502	± 2.5	PASS
		VN	0	0.25	0.000296	± 2.5	PASS
QPSK		VN	10	-1.92	-0.002275	± 2.5	PASS
		VN	20	4.83	0.005723	± 2.5	PASS
		VN	30	1.22	0.001445	± 2.5	PASS
		VN	40	0.75	0.000889	± 2.5	PASS
		VN	50	3	0.003555	± 2.5	PASS
		VN	-30	4.98	0.005900	± 2.5	PASS
		VN	-20	0.95	0.001126	± 2.5	PASS
		VN	-10	-1.5	-0.001777	± 2.5	PASS
		VN	0	4.18	0.004953	± 2.5	PASS
	нсн	VN	10	0.56	0.000664	± 2.5	PASS
		VN	20	0.44	0.000521	± 2.5	PASS
		VN	30	-0.32	-0.000379	± 2.5	PASS
		VN	40	-0.95	-0.001126	± 2.5	PASS
		VN	50	4.68	0.005545	± 2.5	PASS
	-					-	