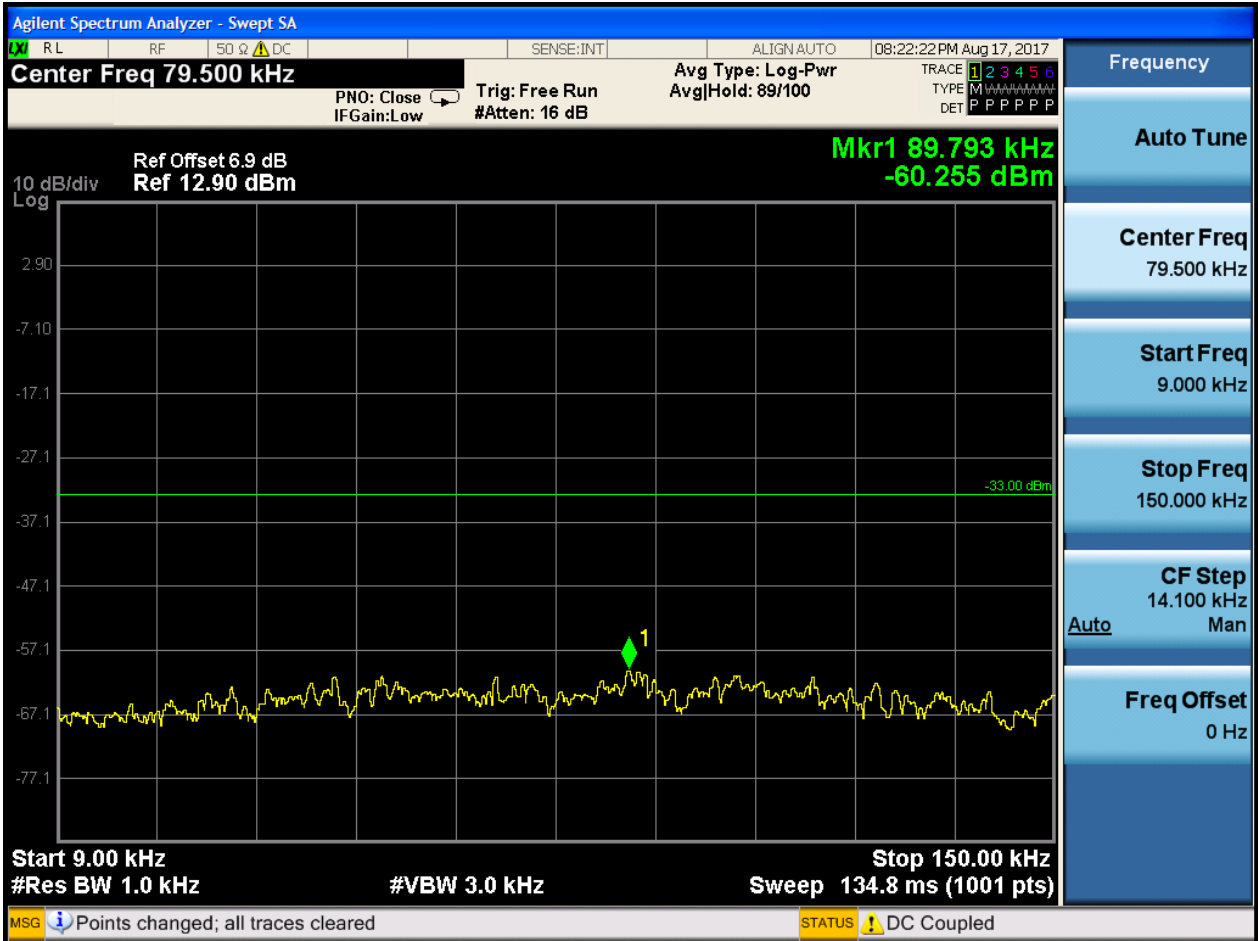
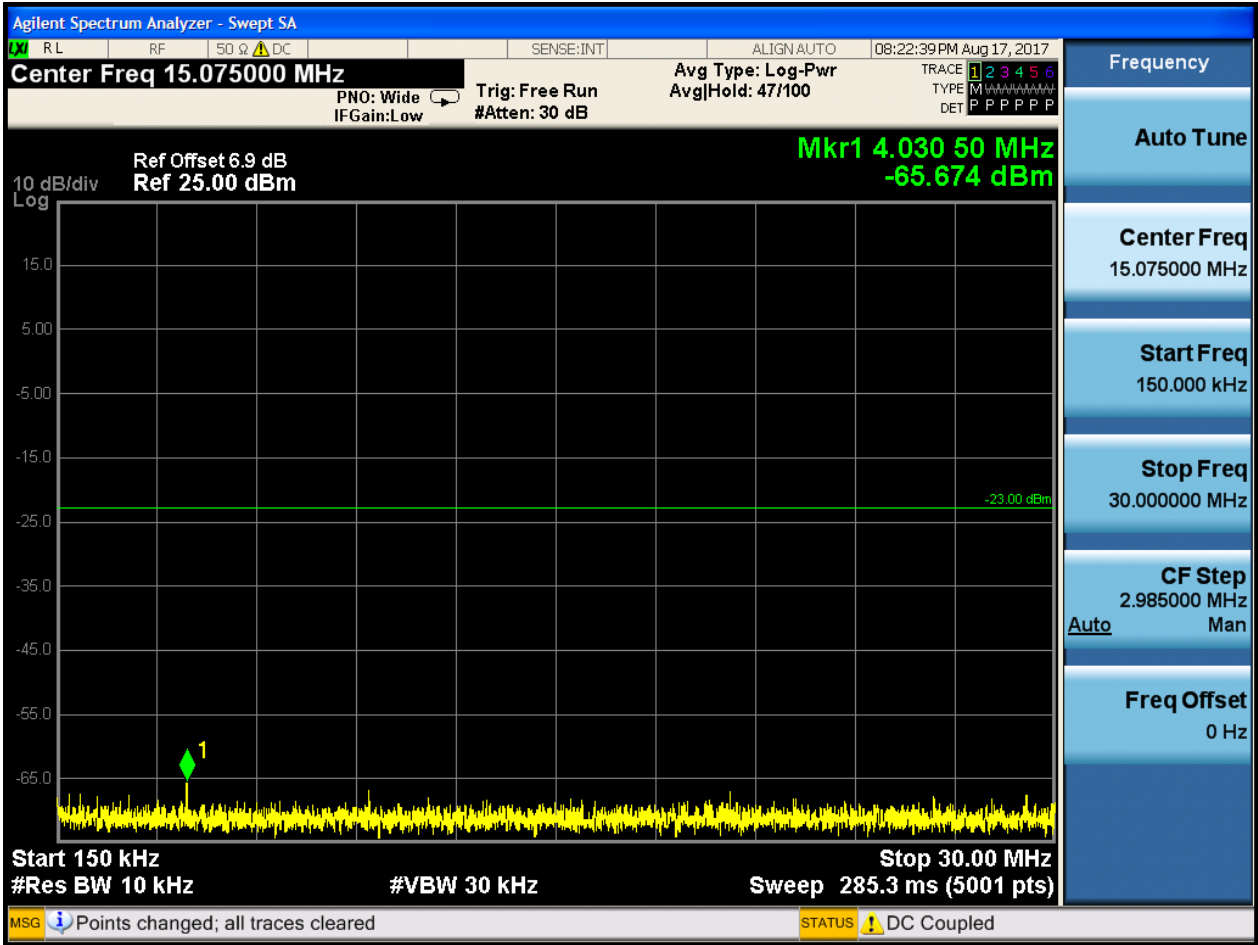


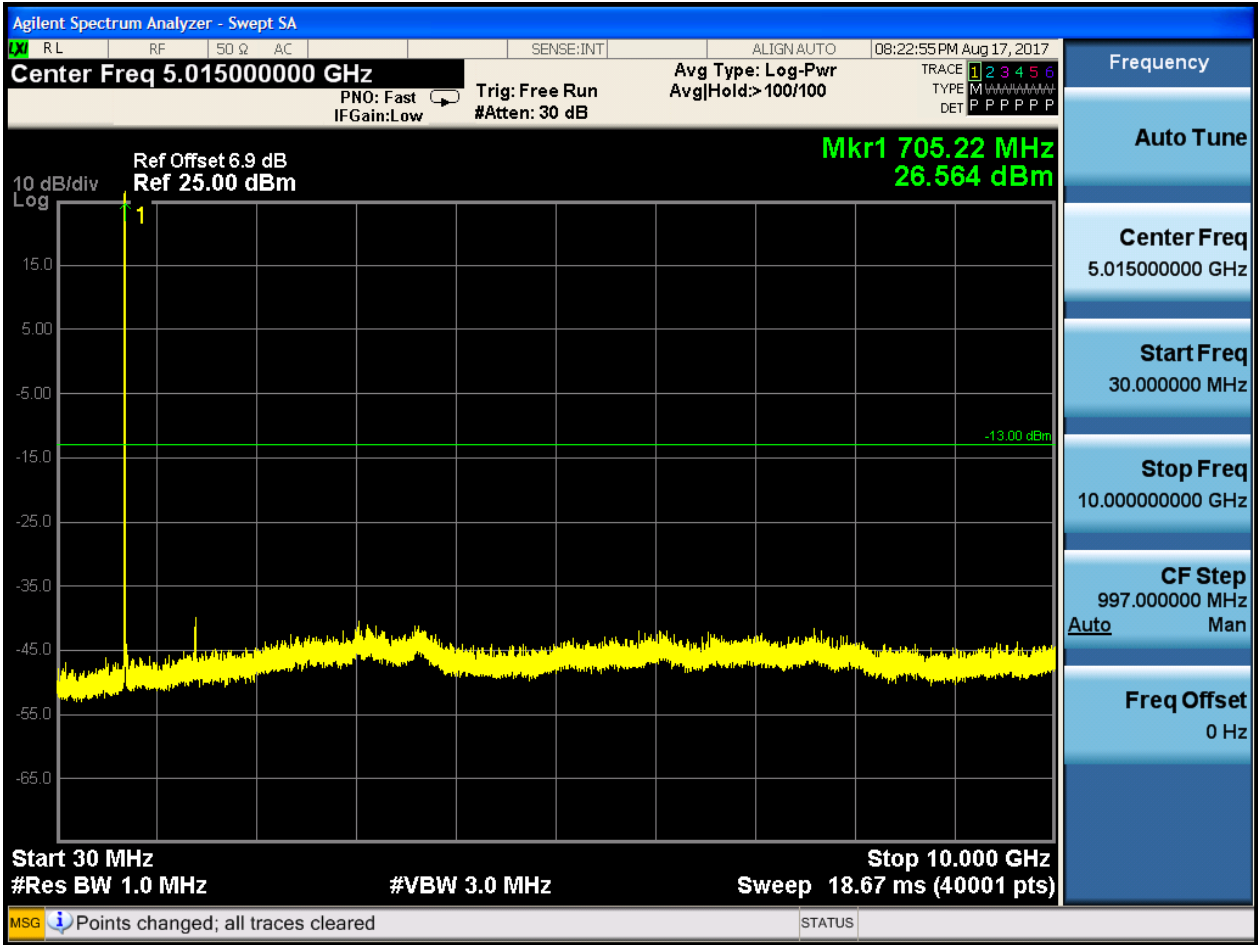


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



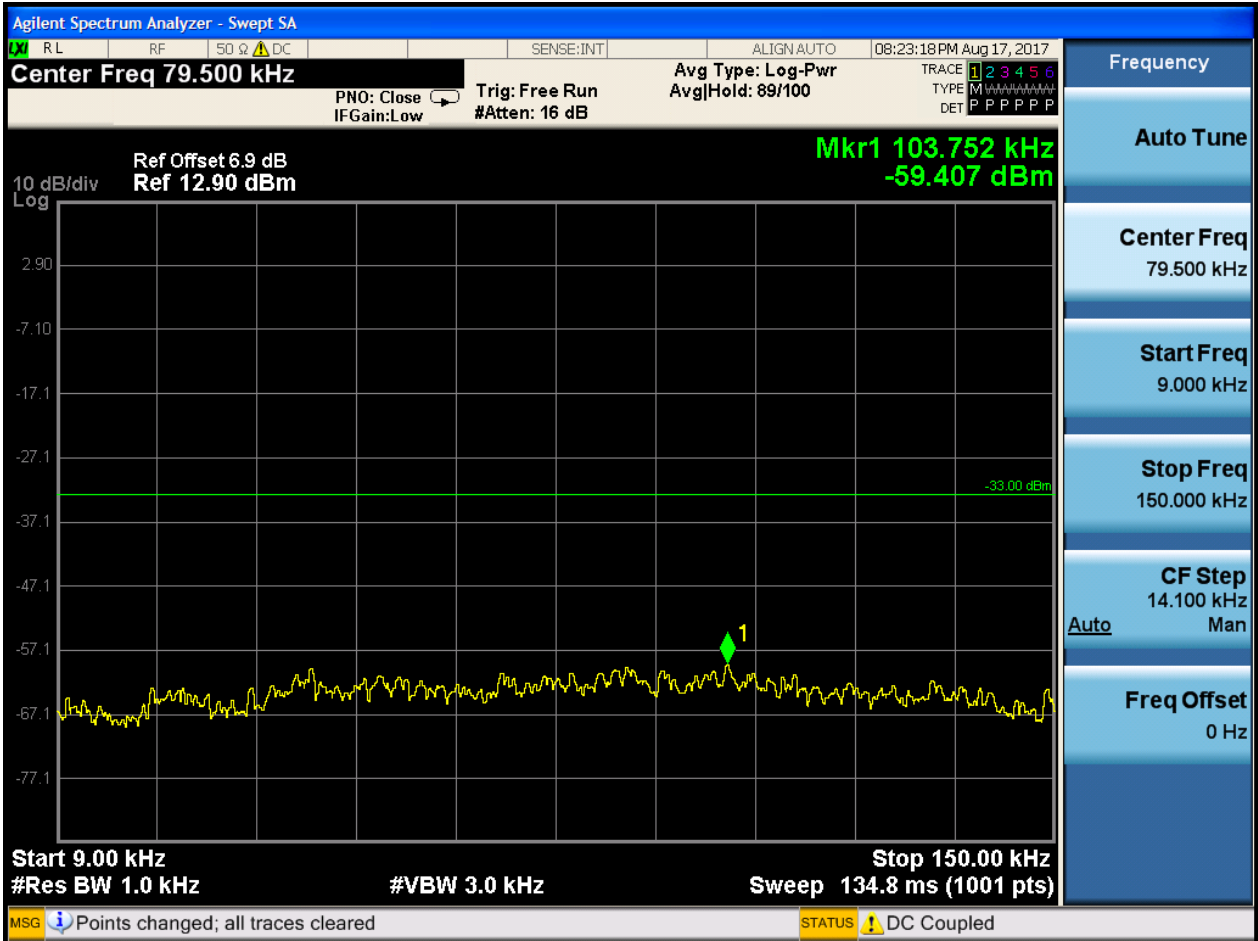


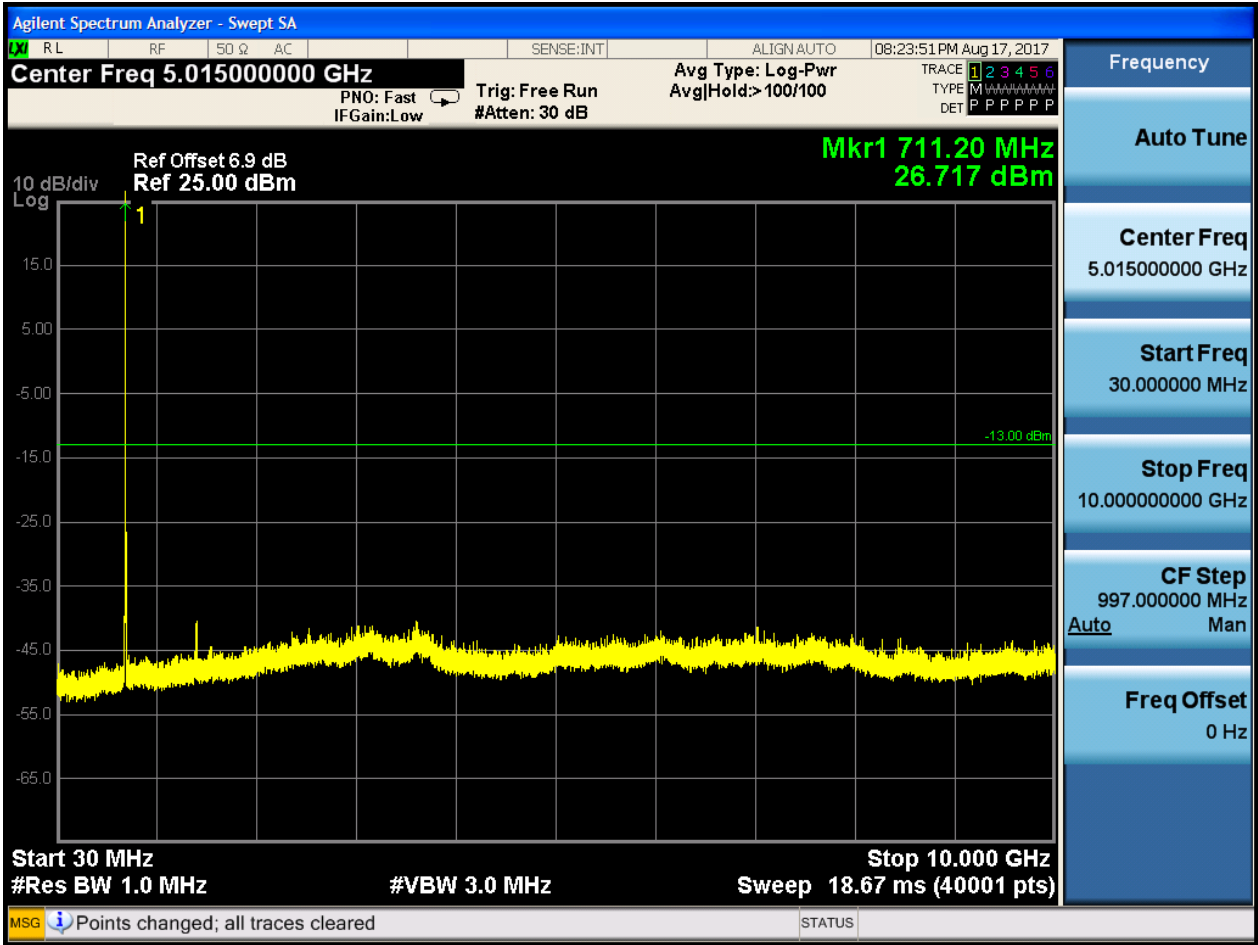




6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0



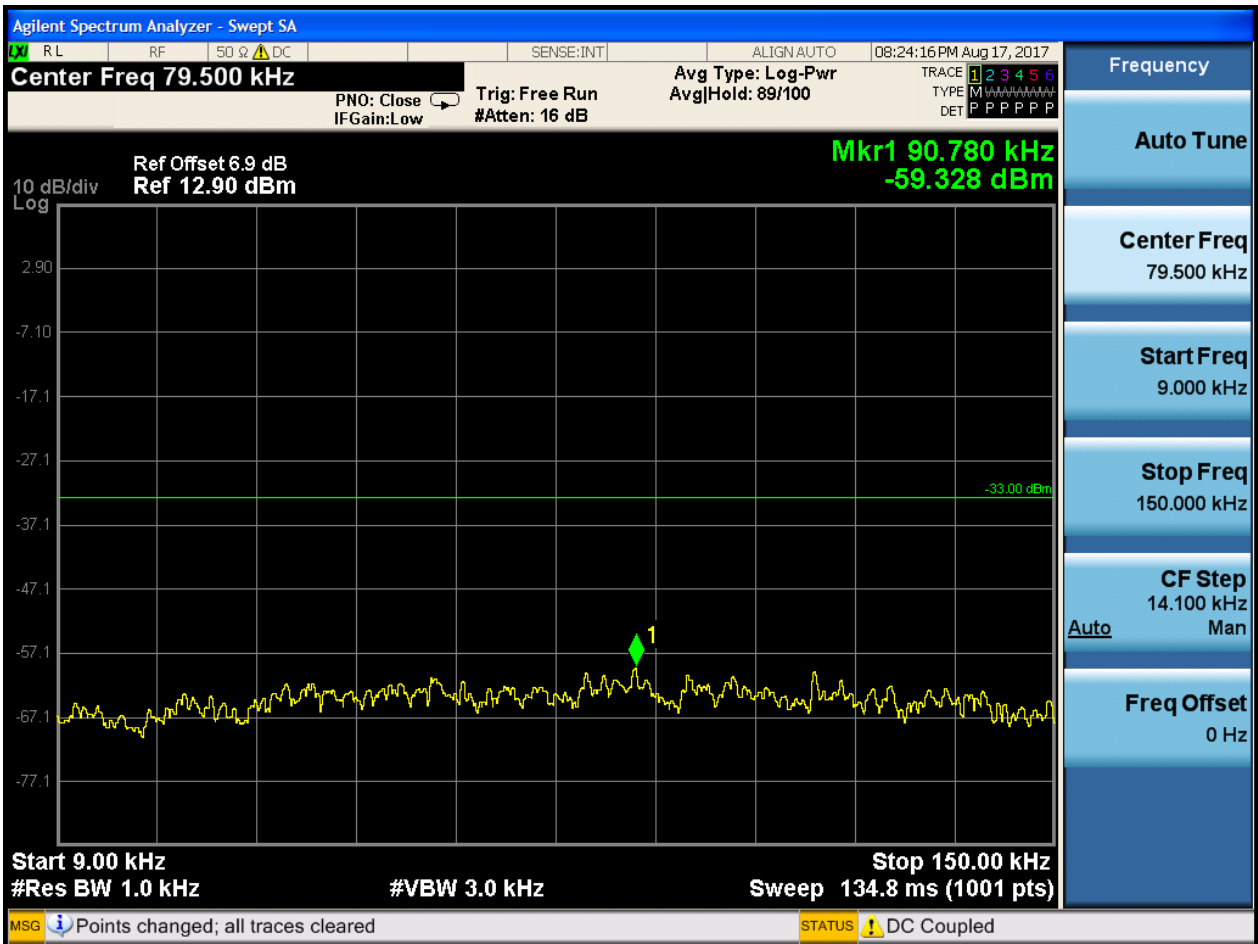


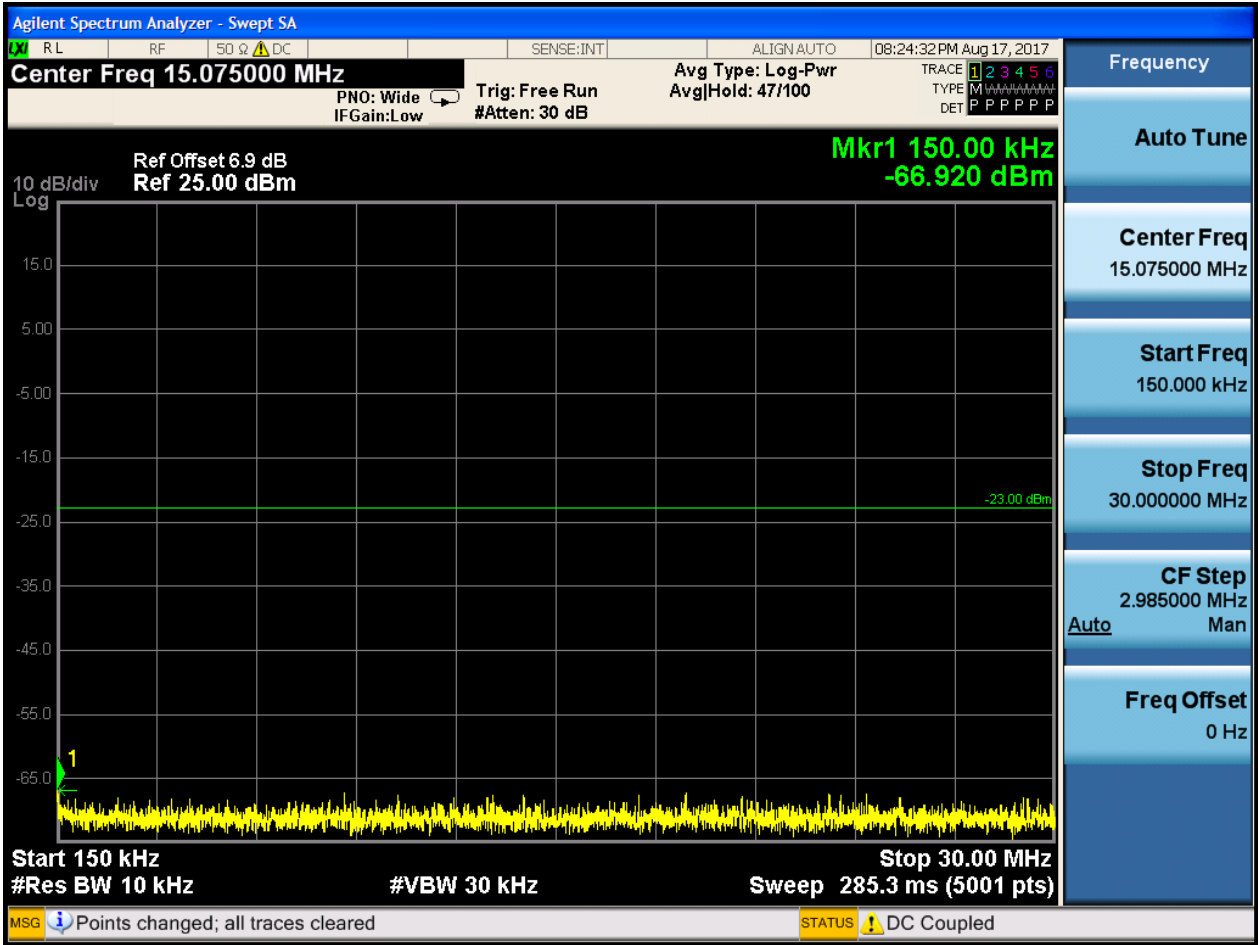


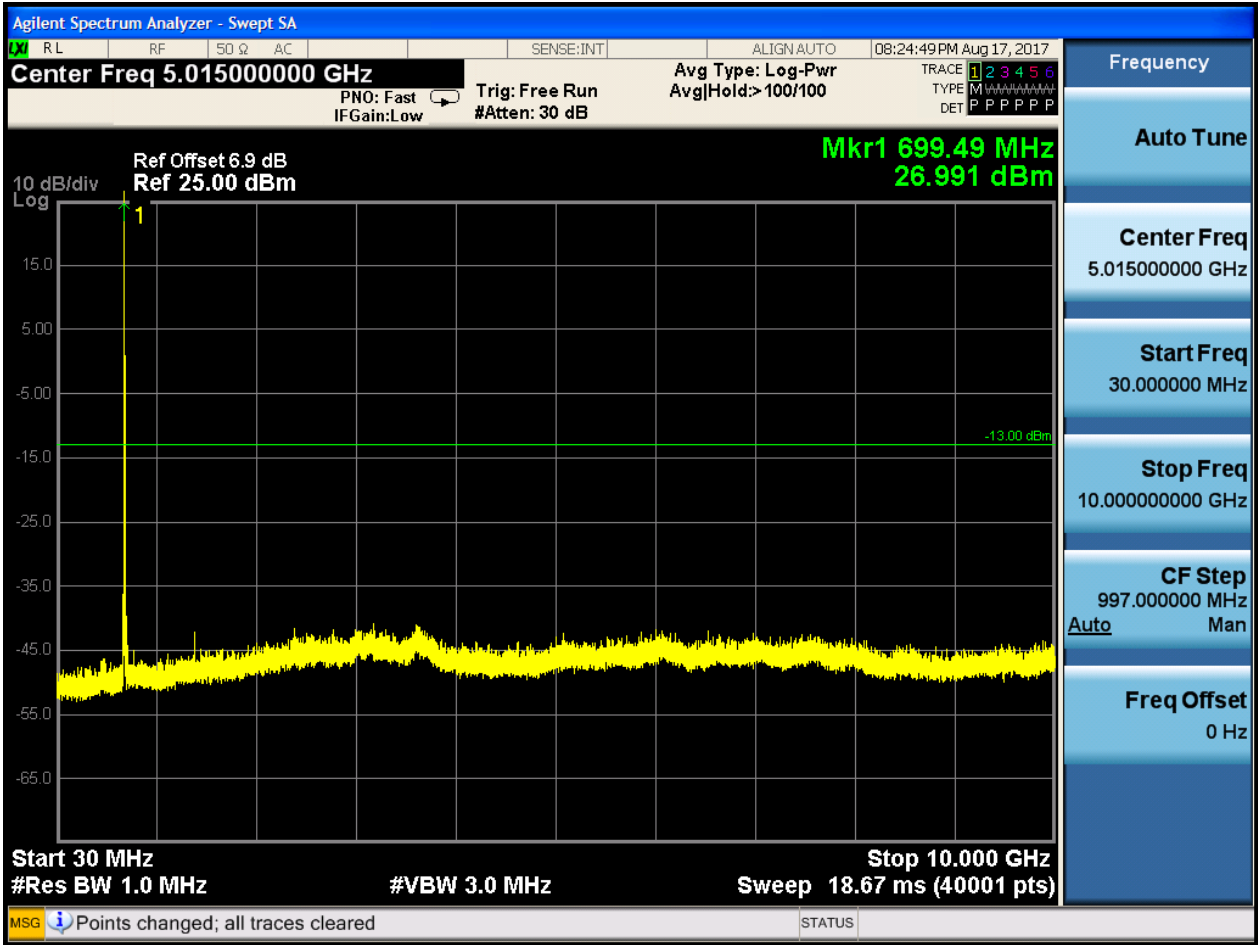
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



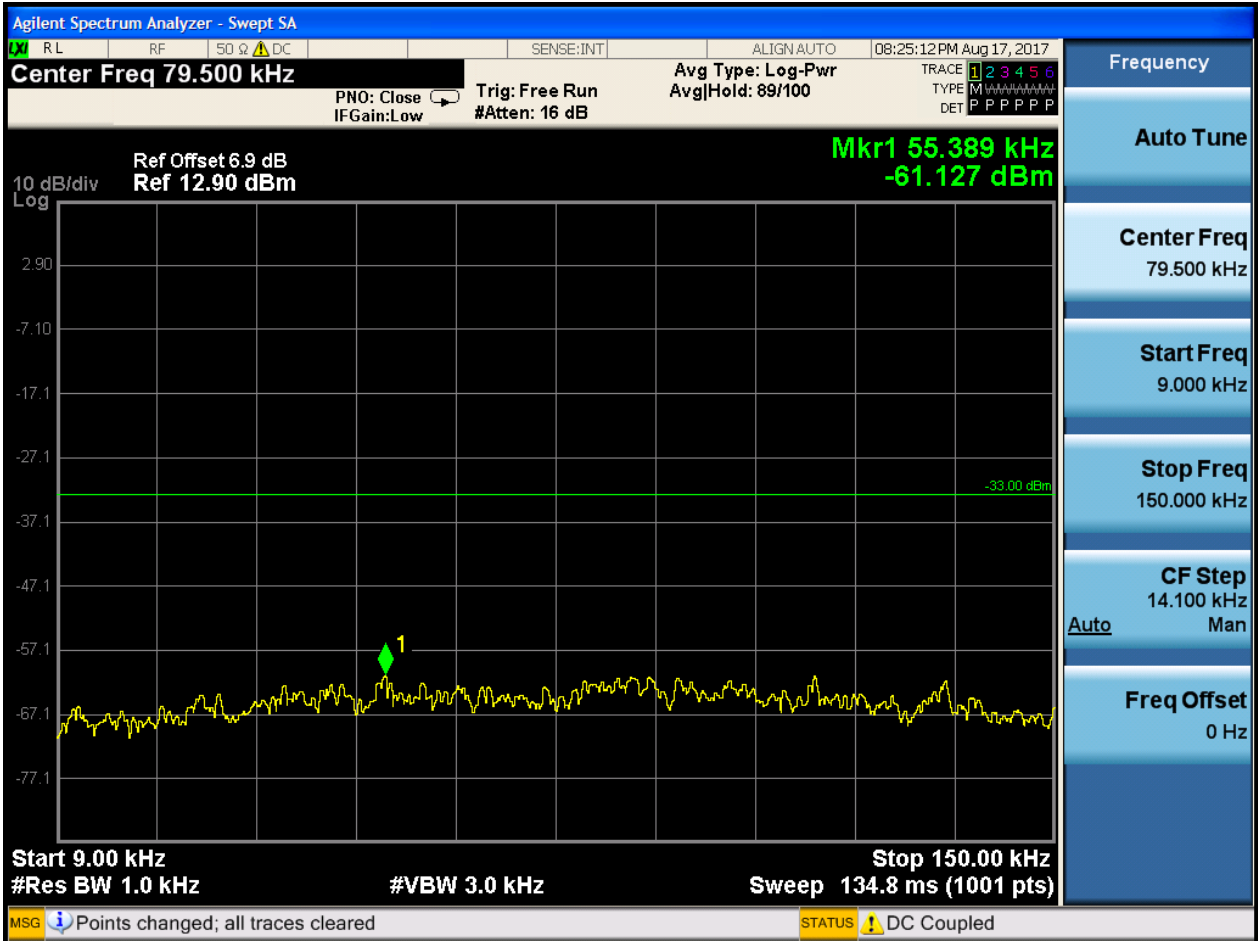






6.1.1.1.4.2 Test Channel = MCH

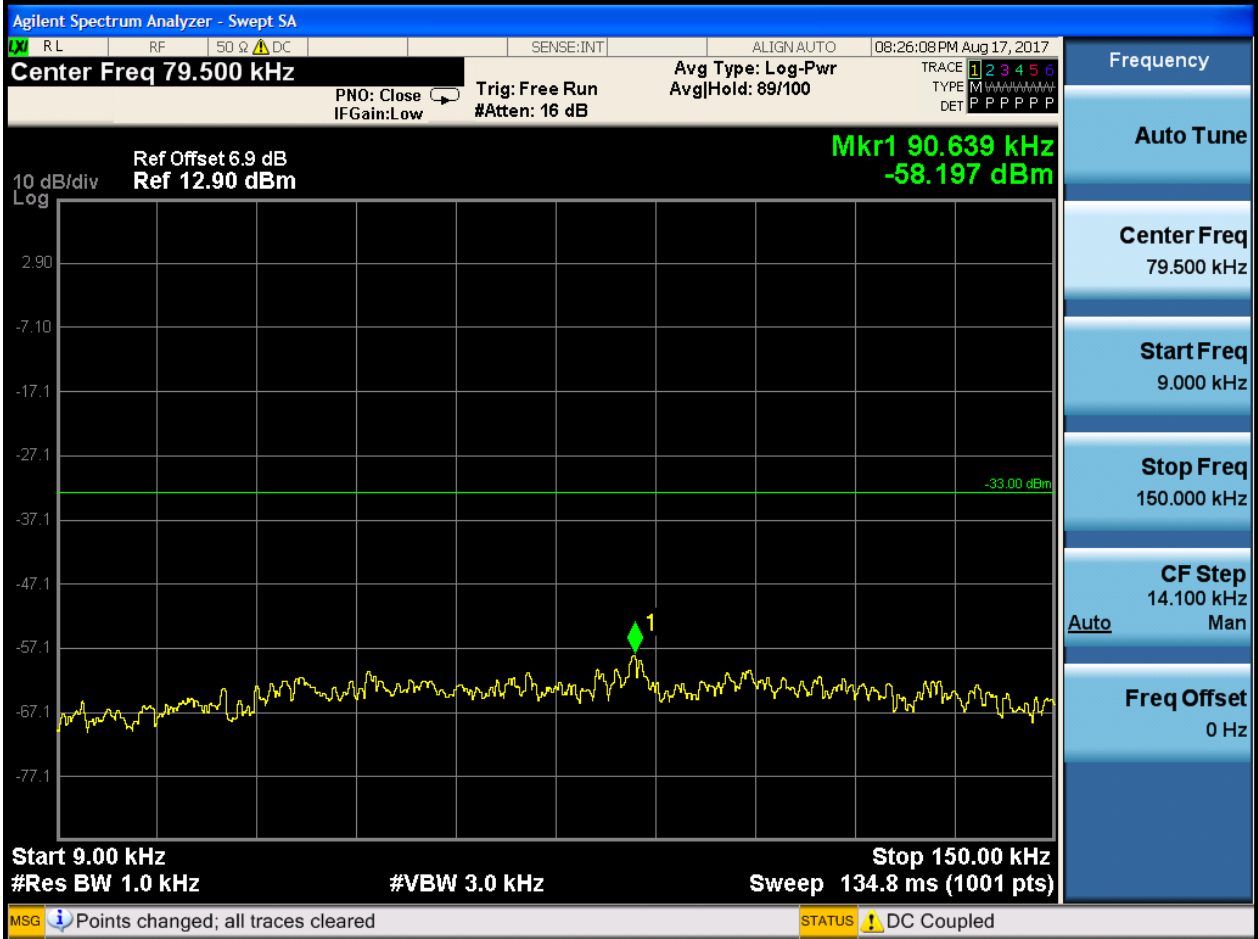
6.1.1.1.4.2.1 Test RB = RB1#0

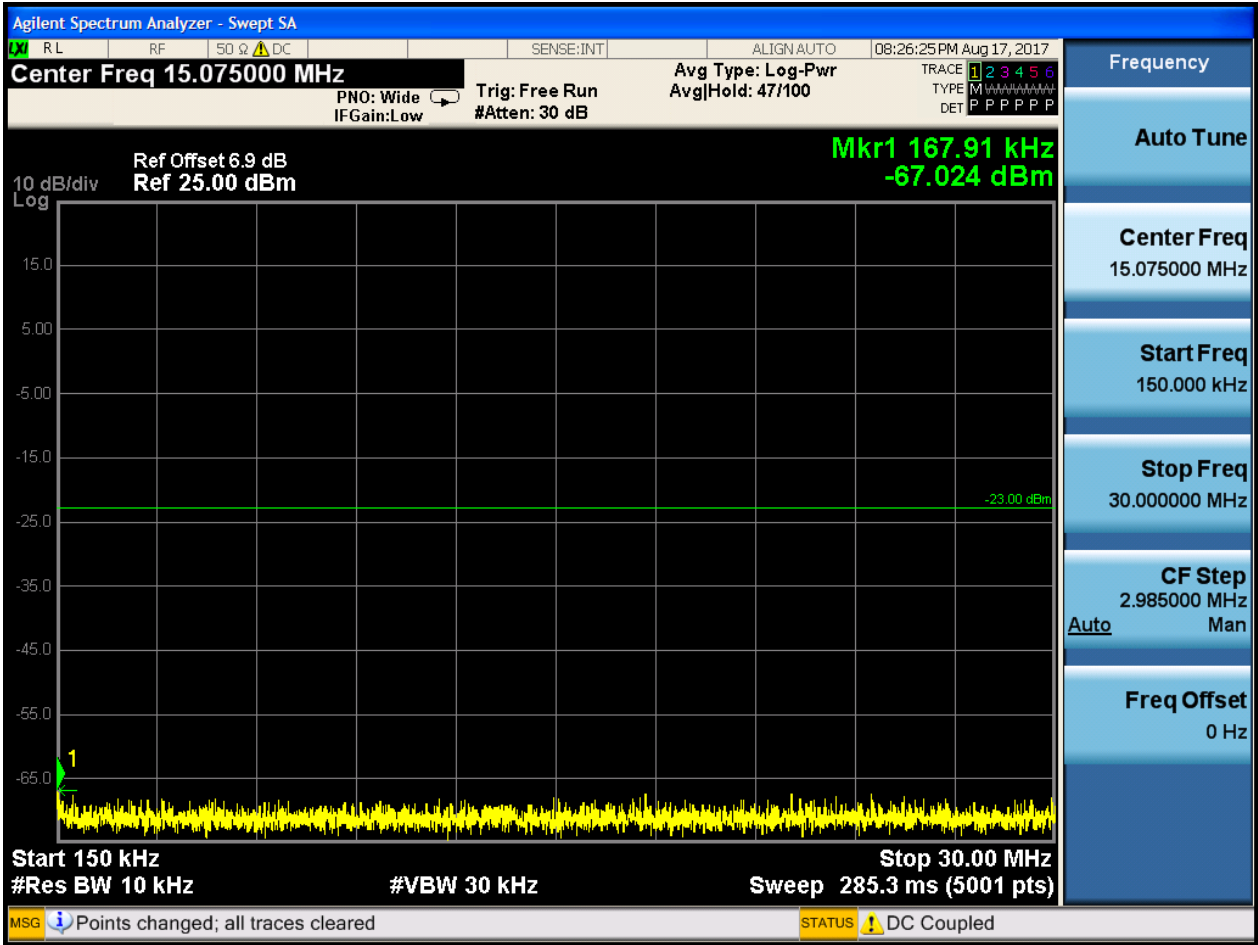


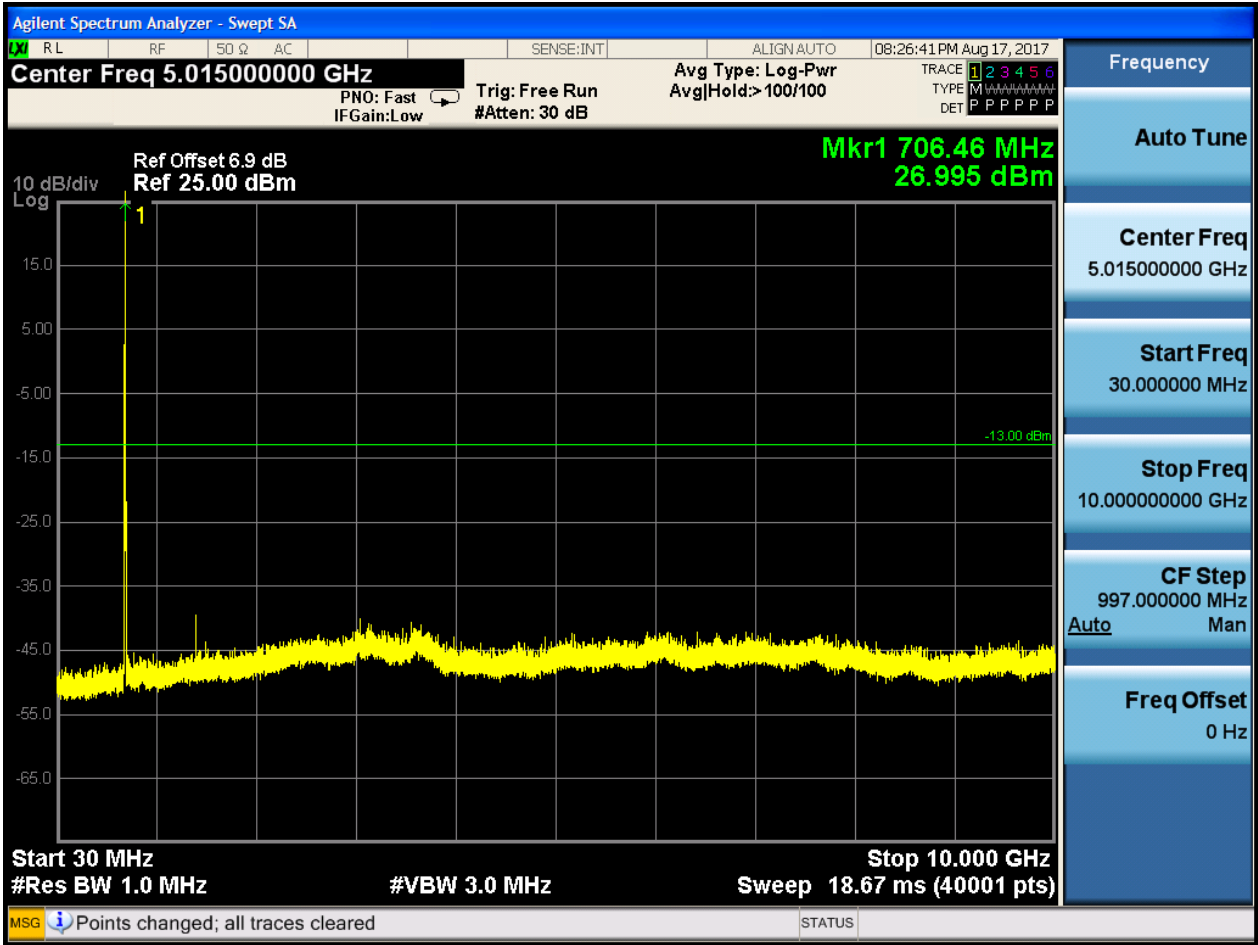


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







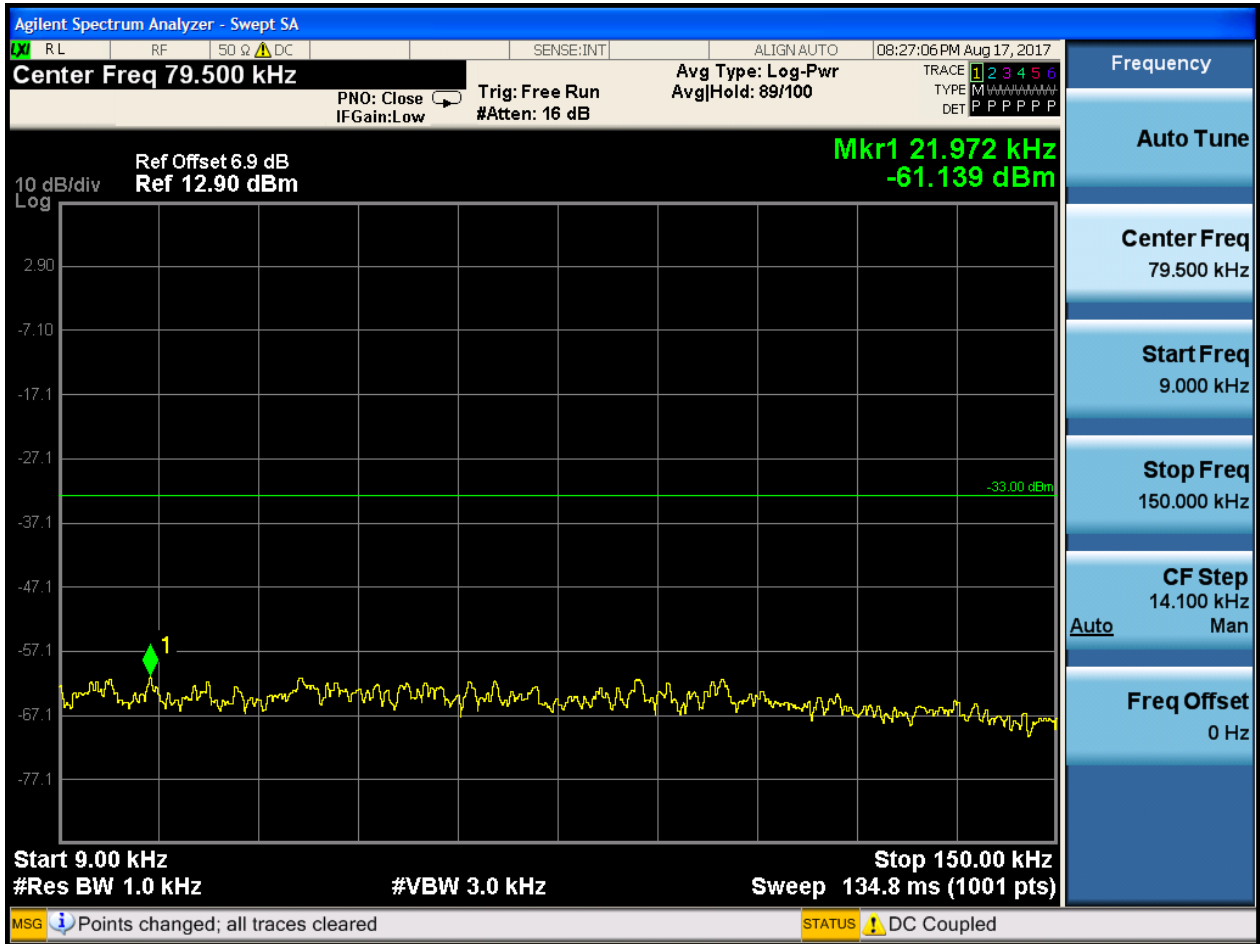


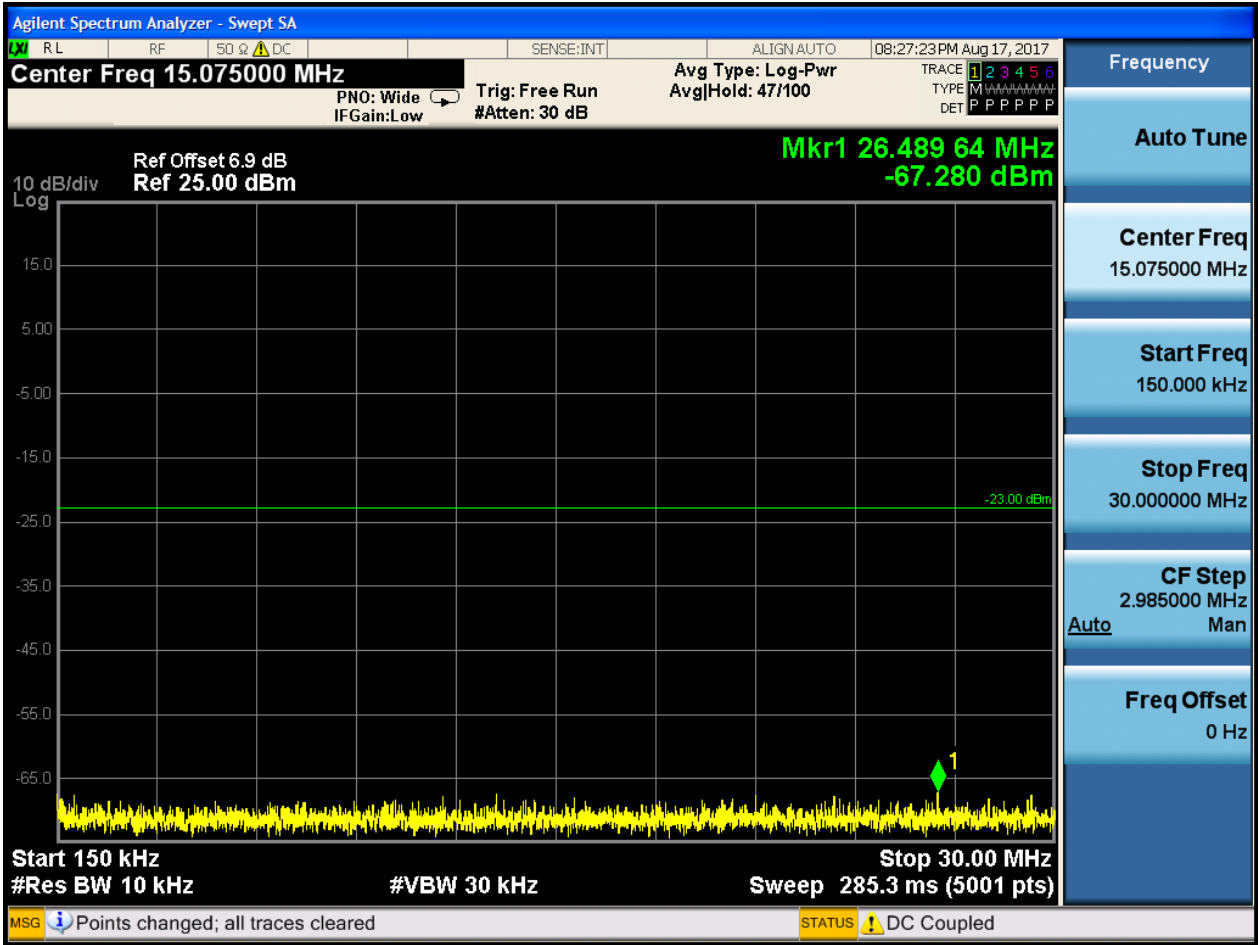
6.1.1.2 Test Mode = LTE/TM2

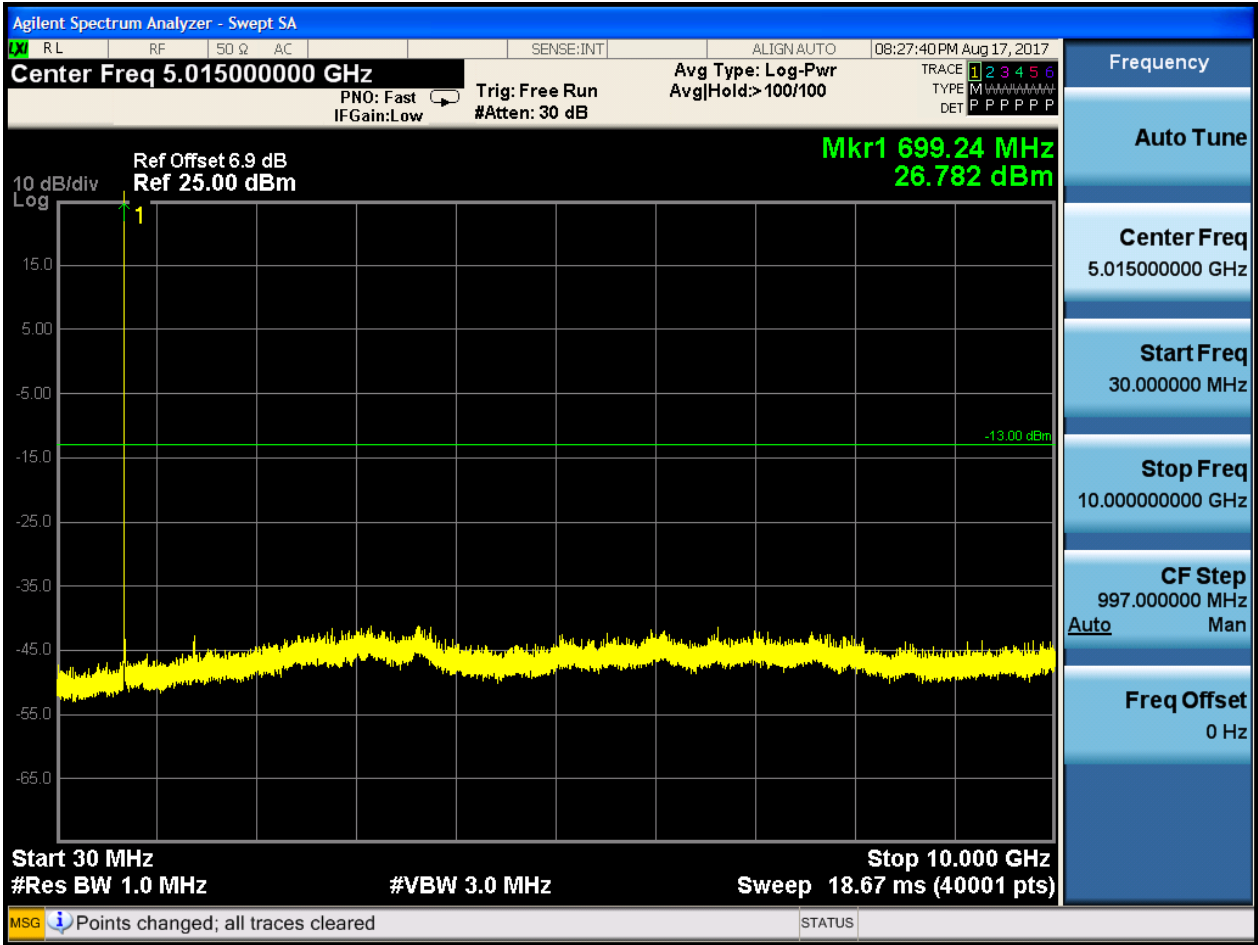
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



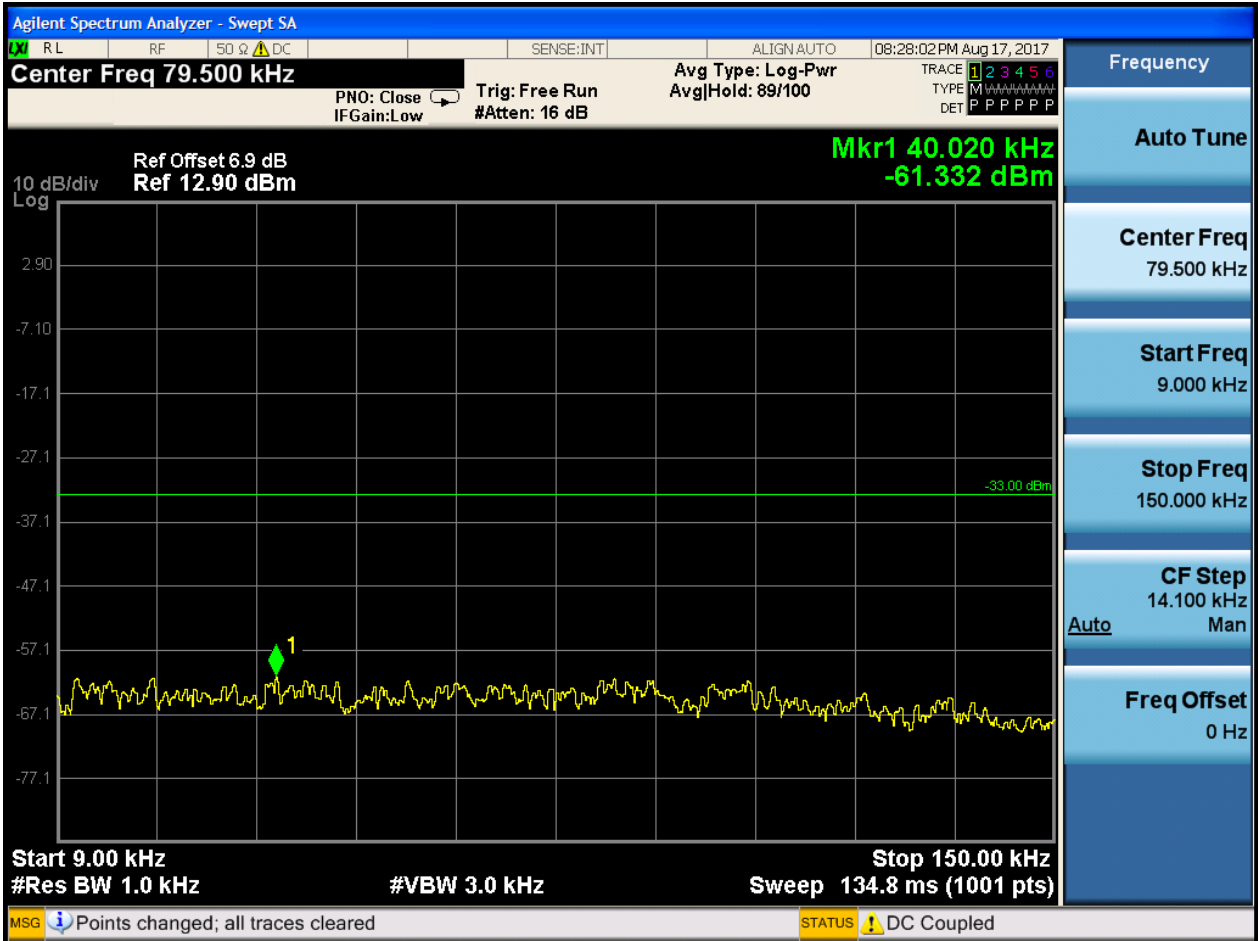


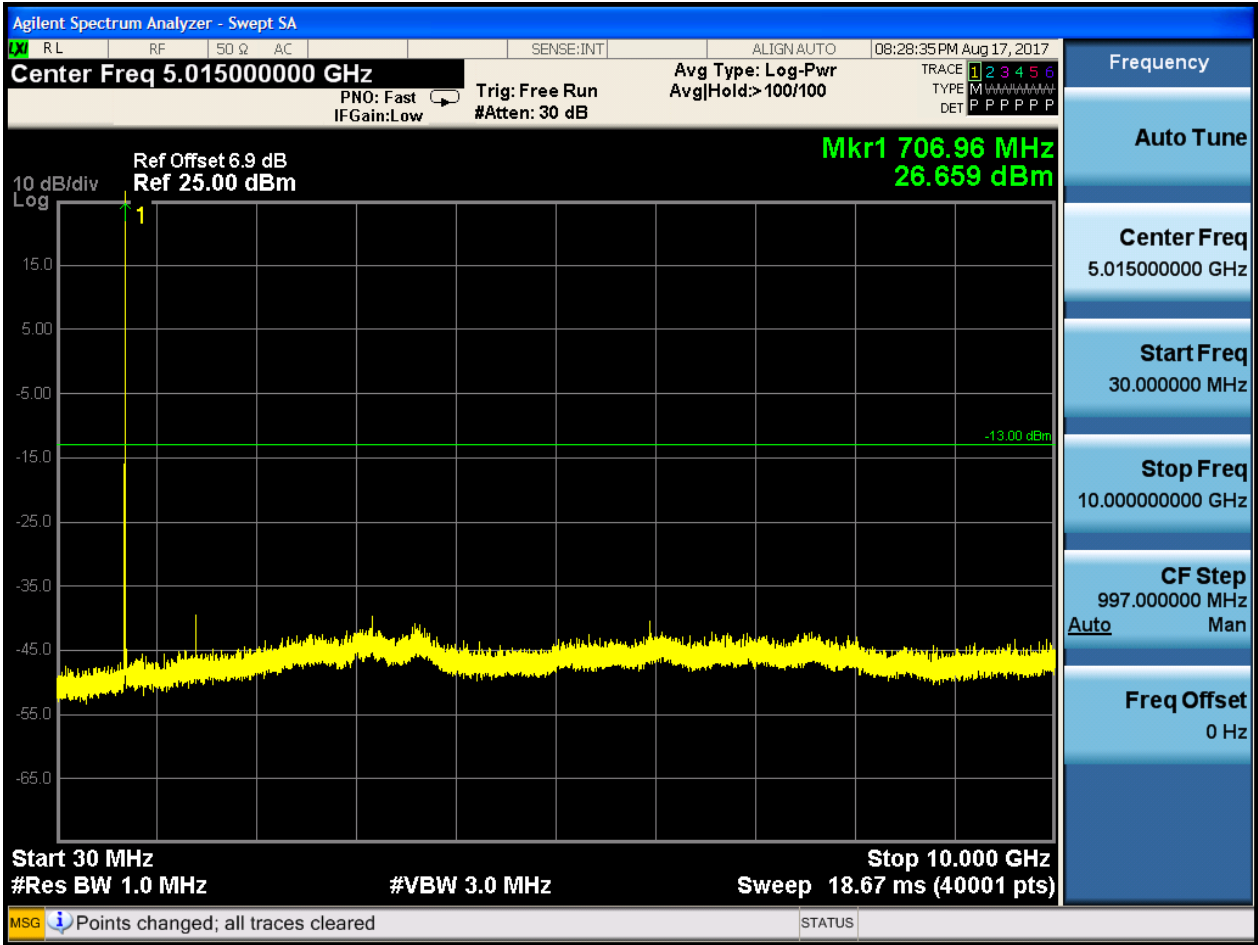




6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0

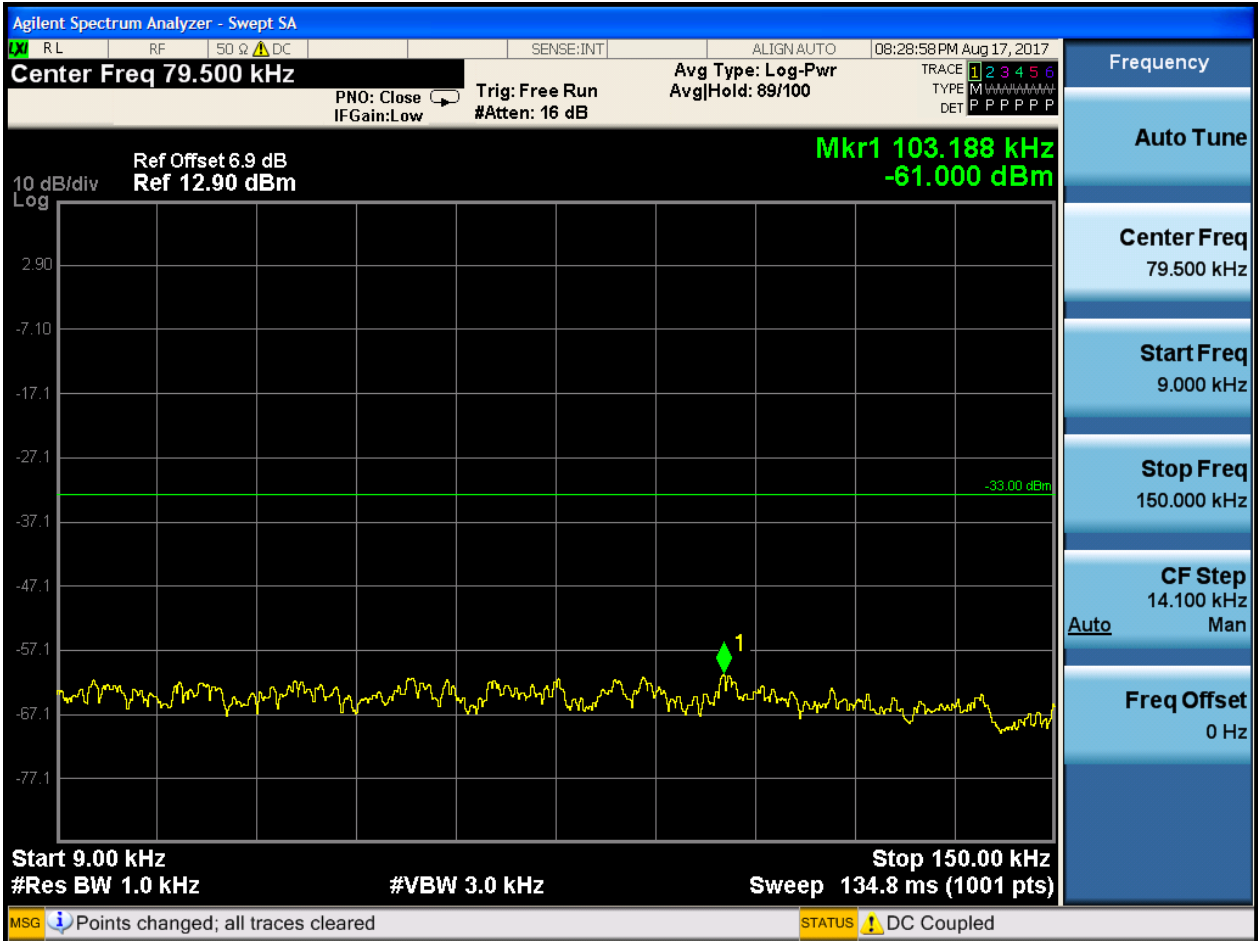




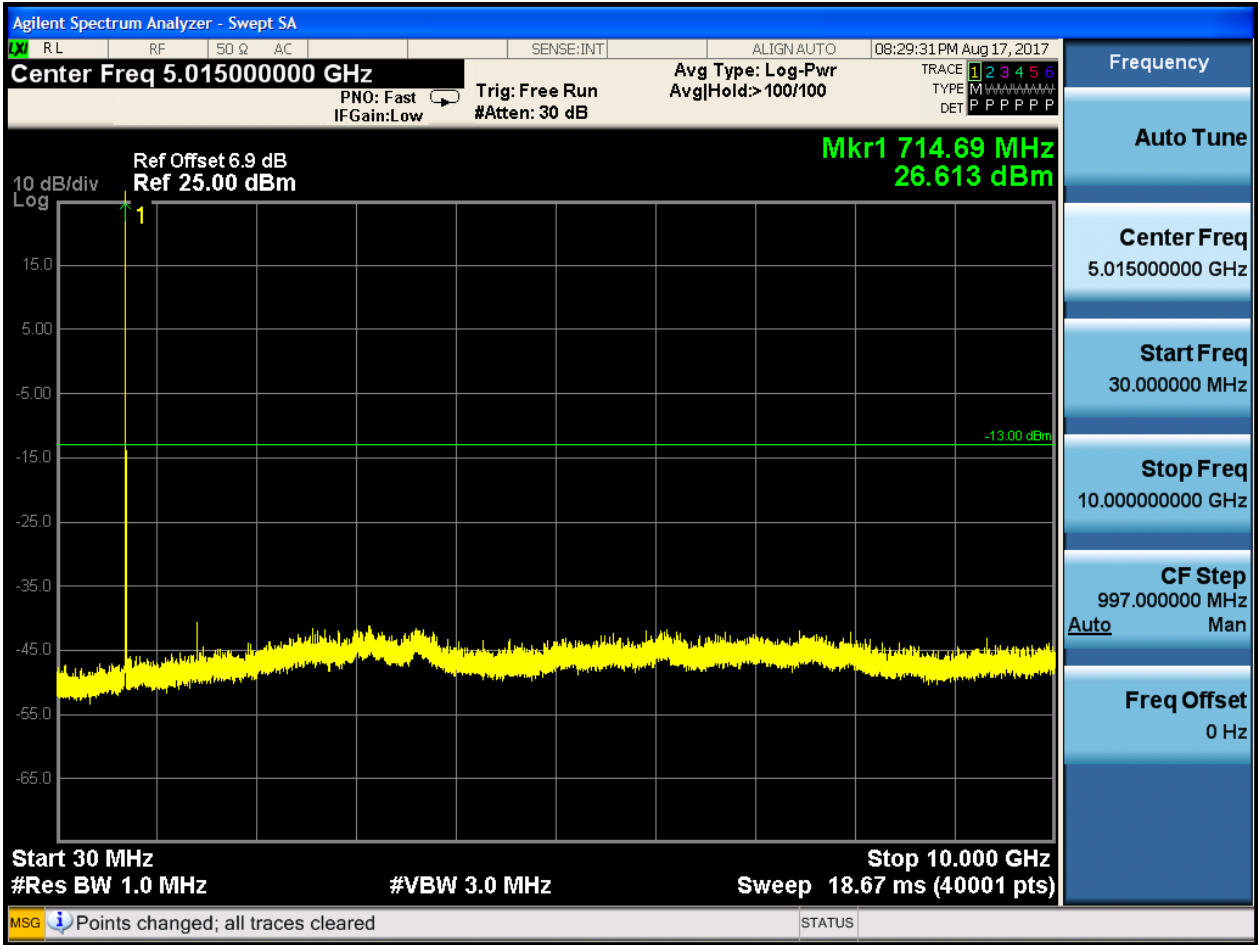


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





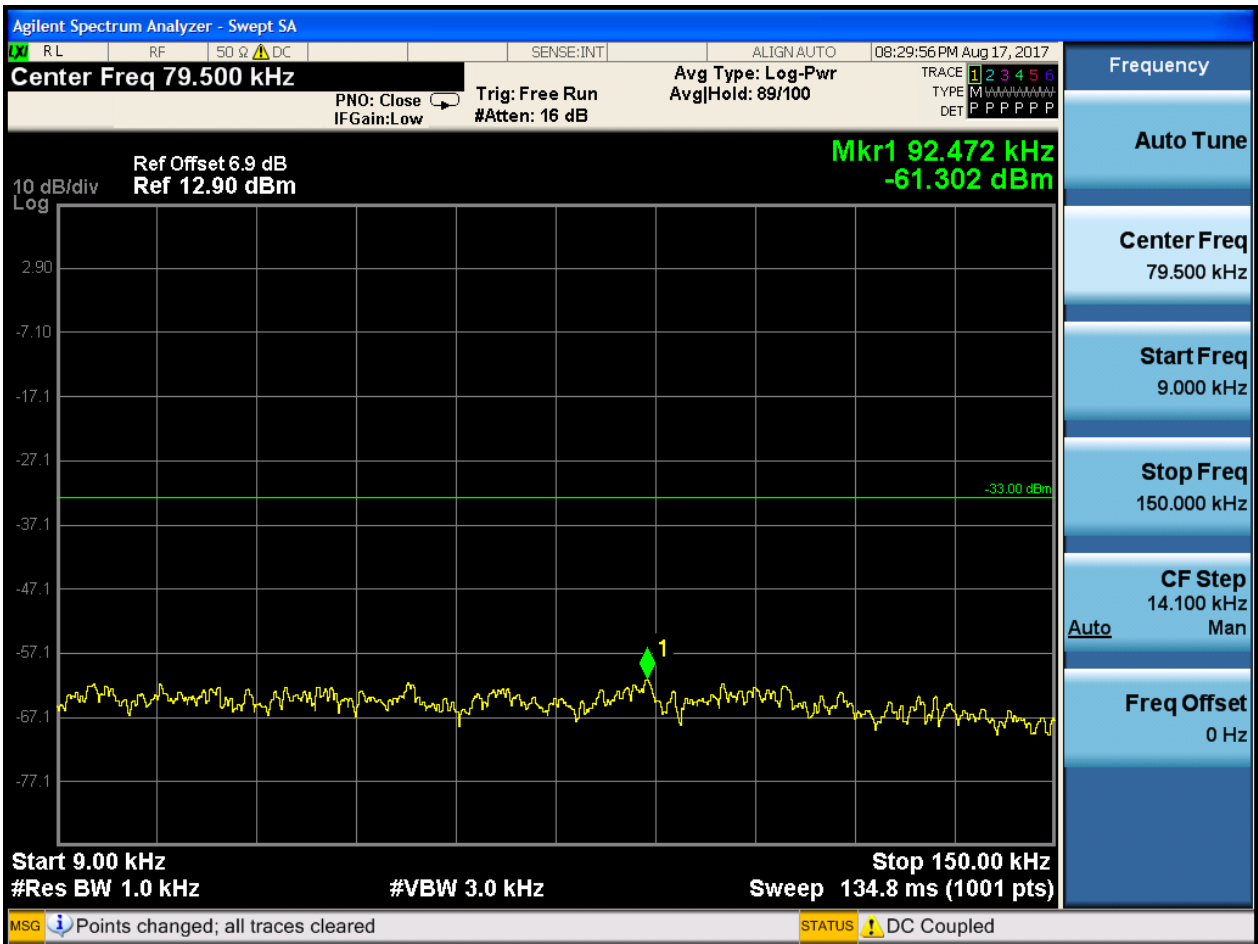




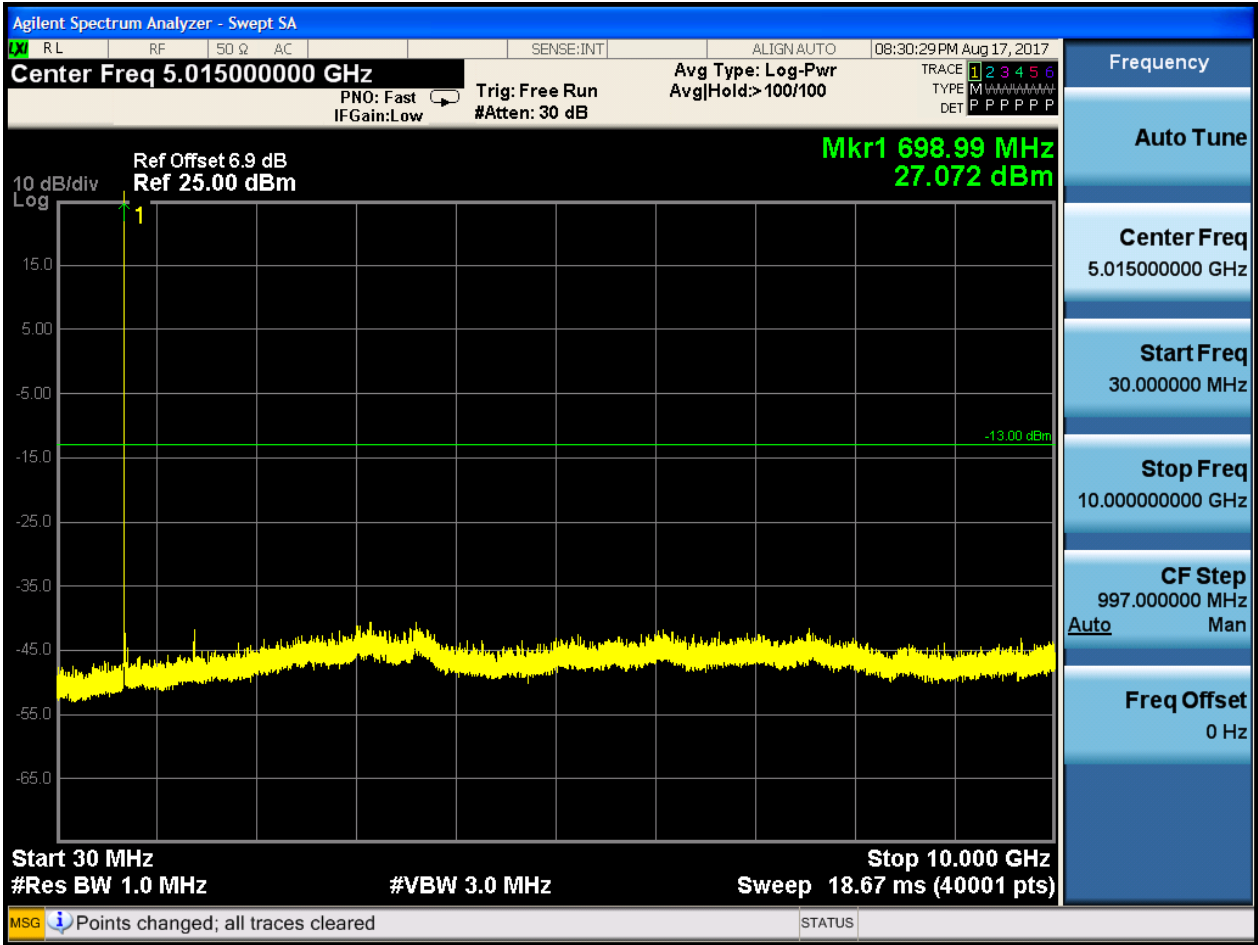
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



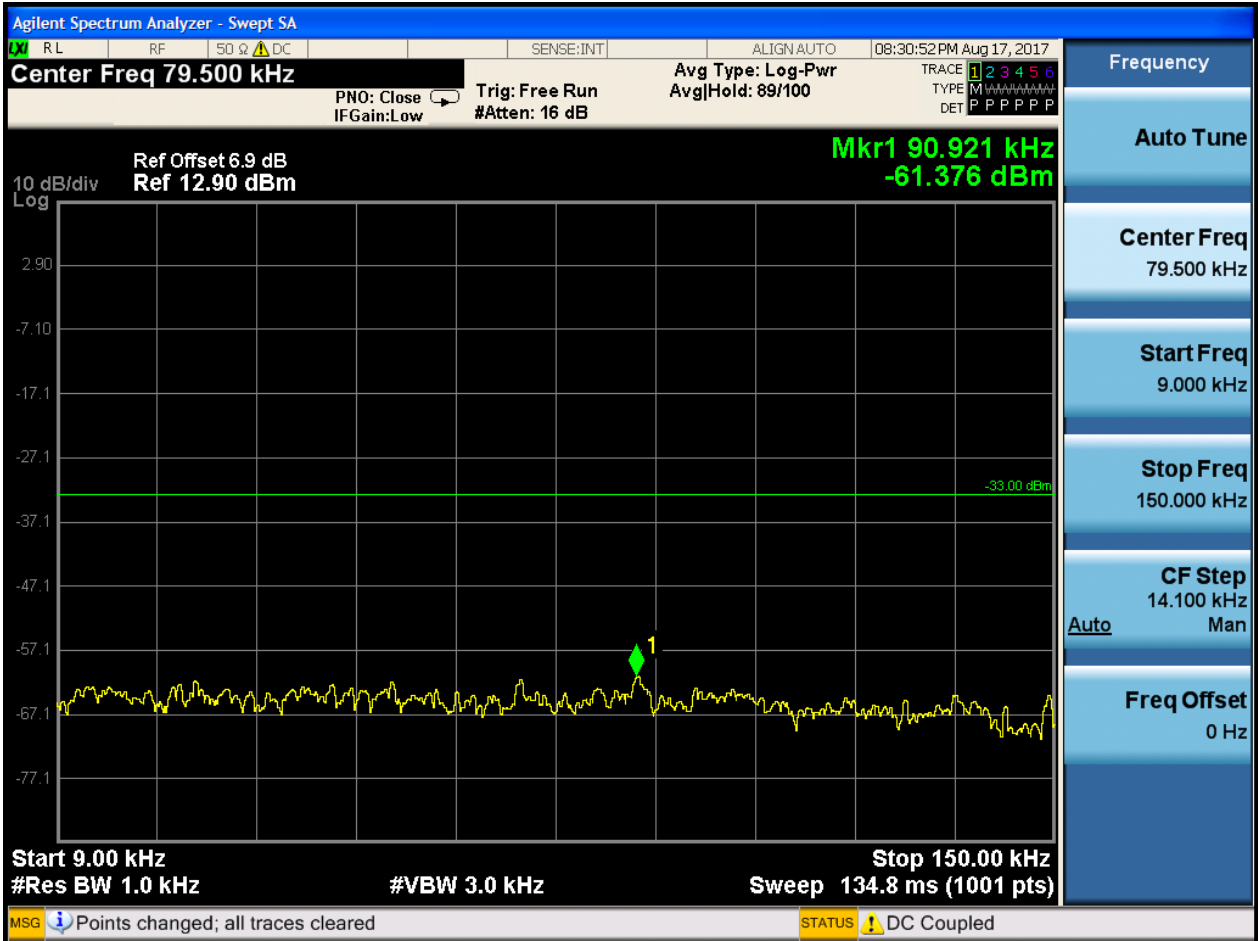


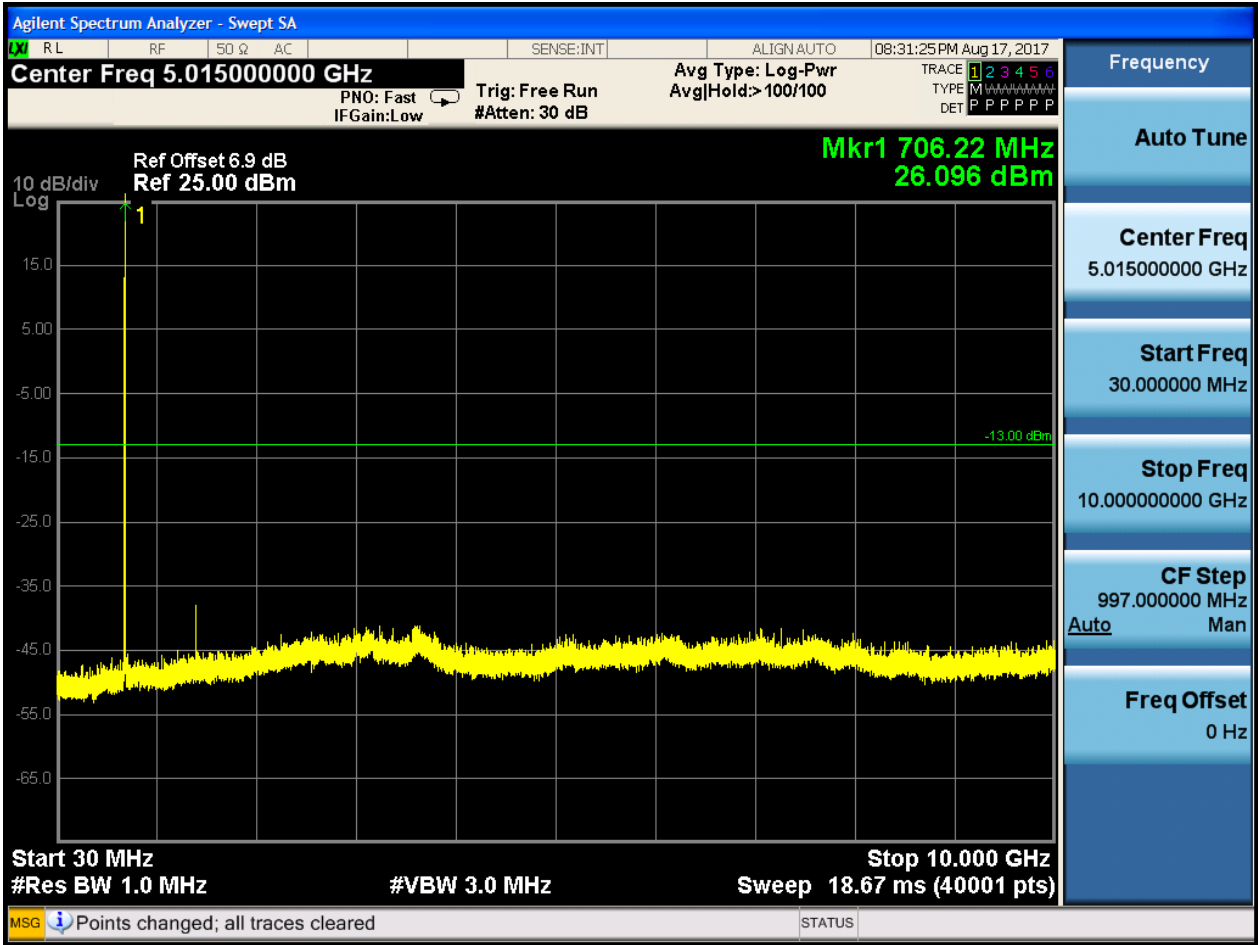




6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0

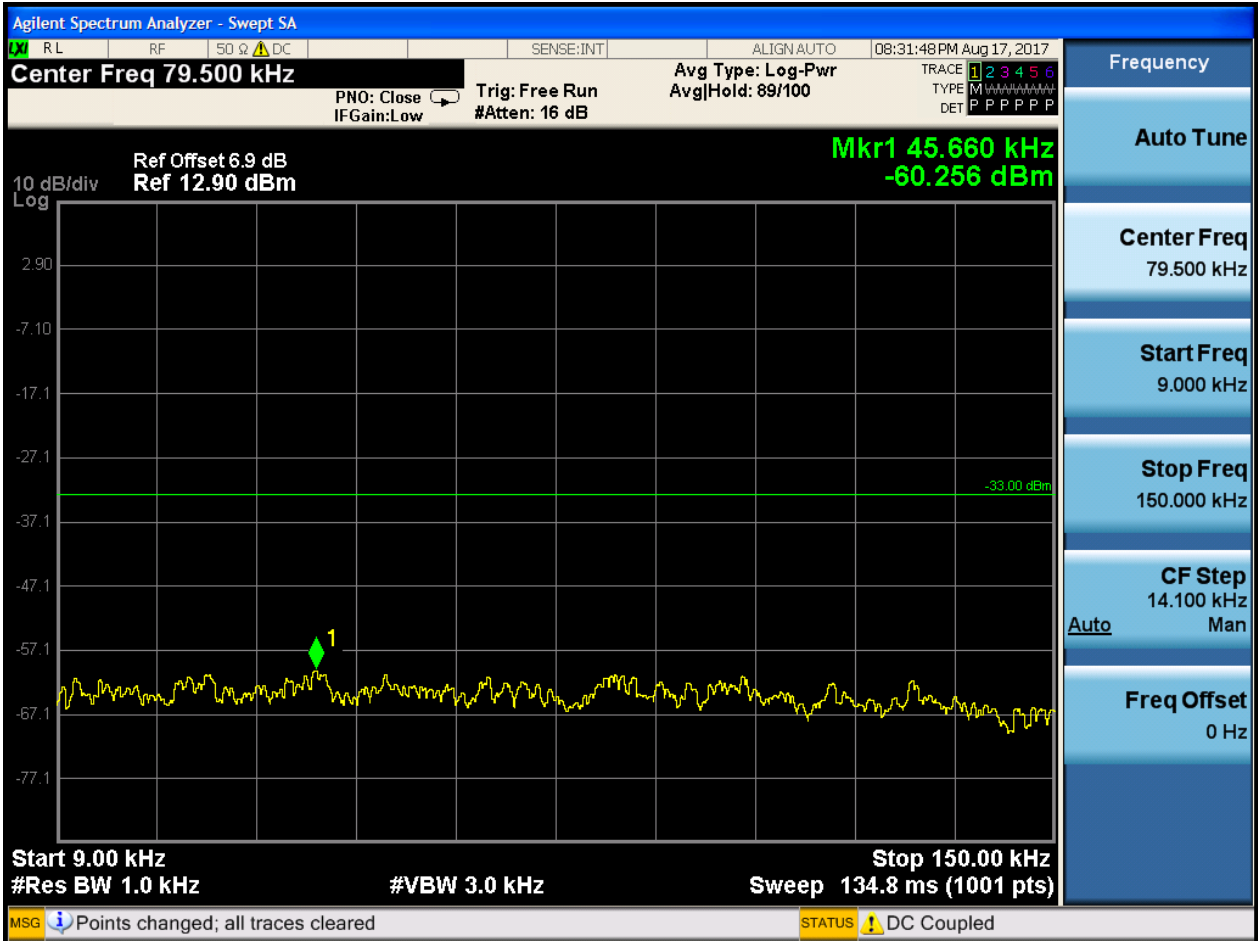


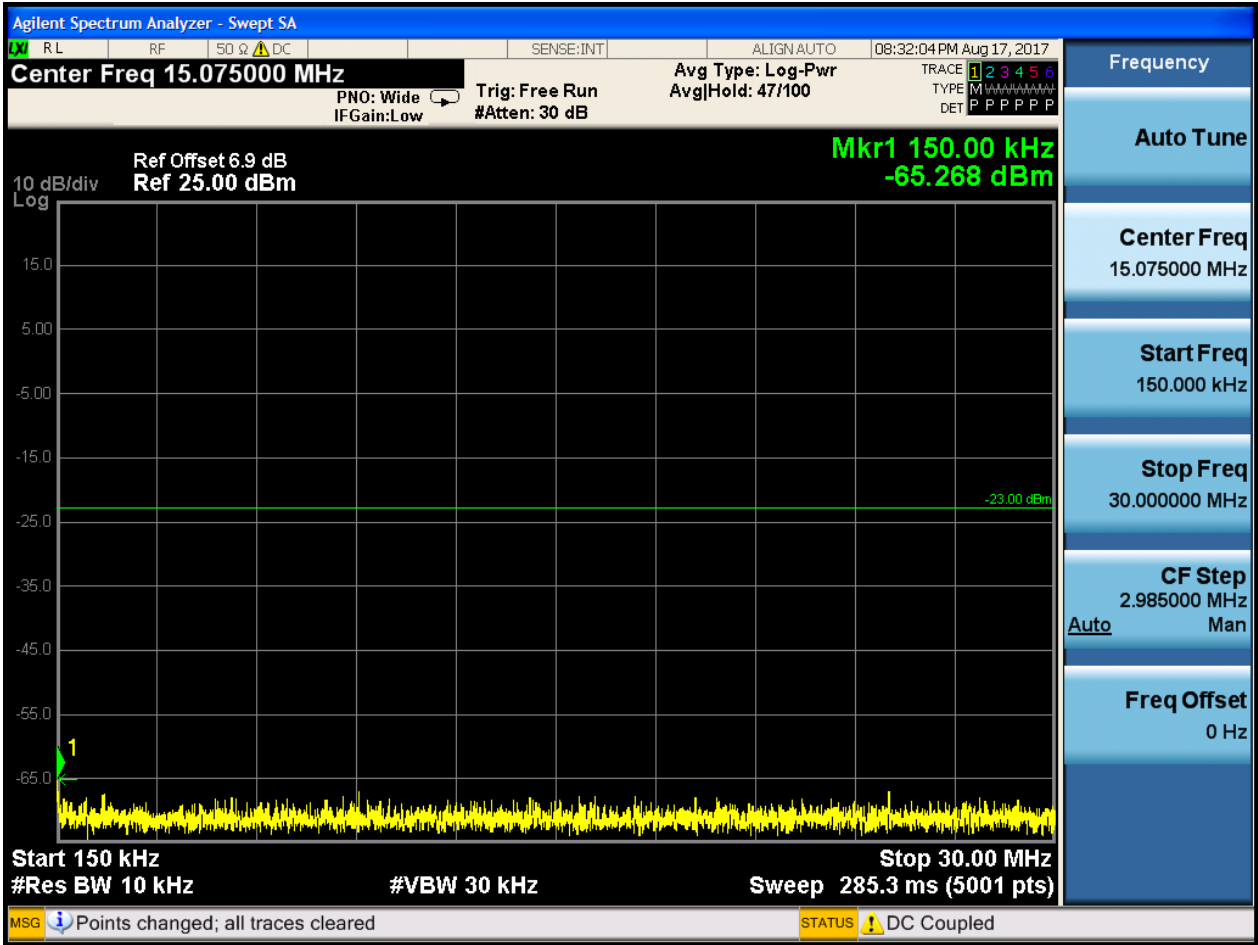


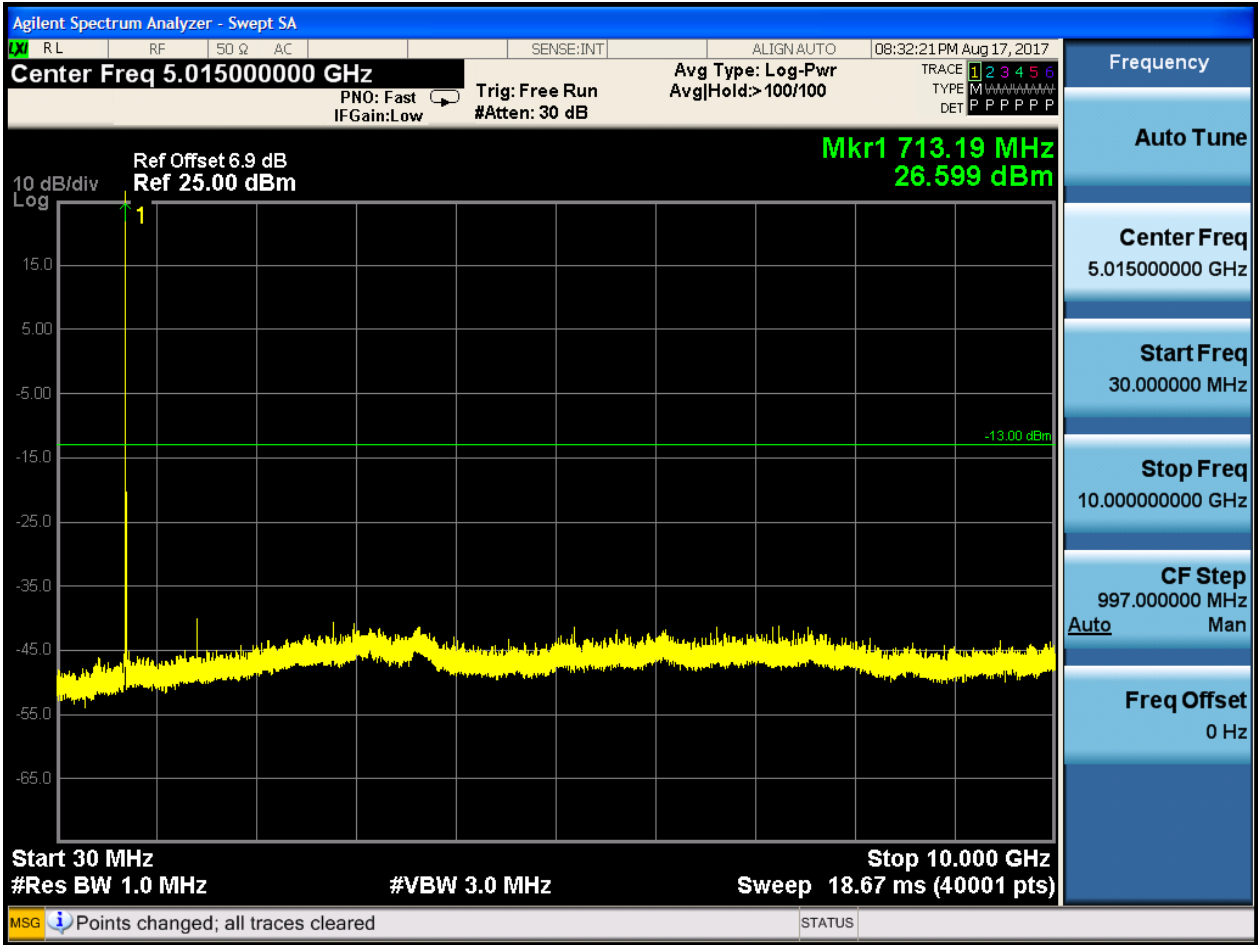


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





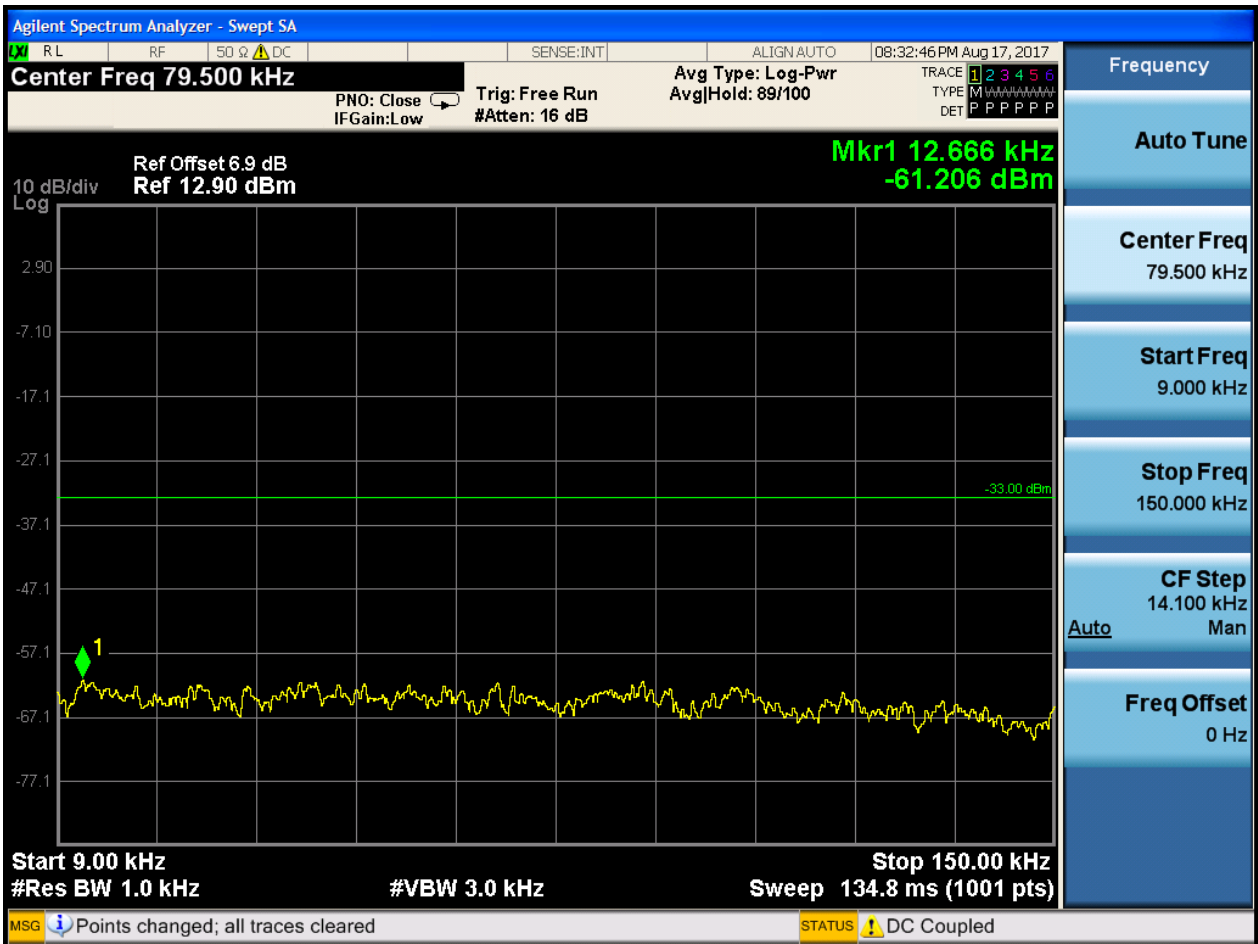


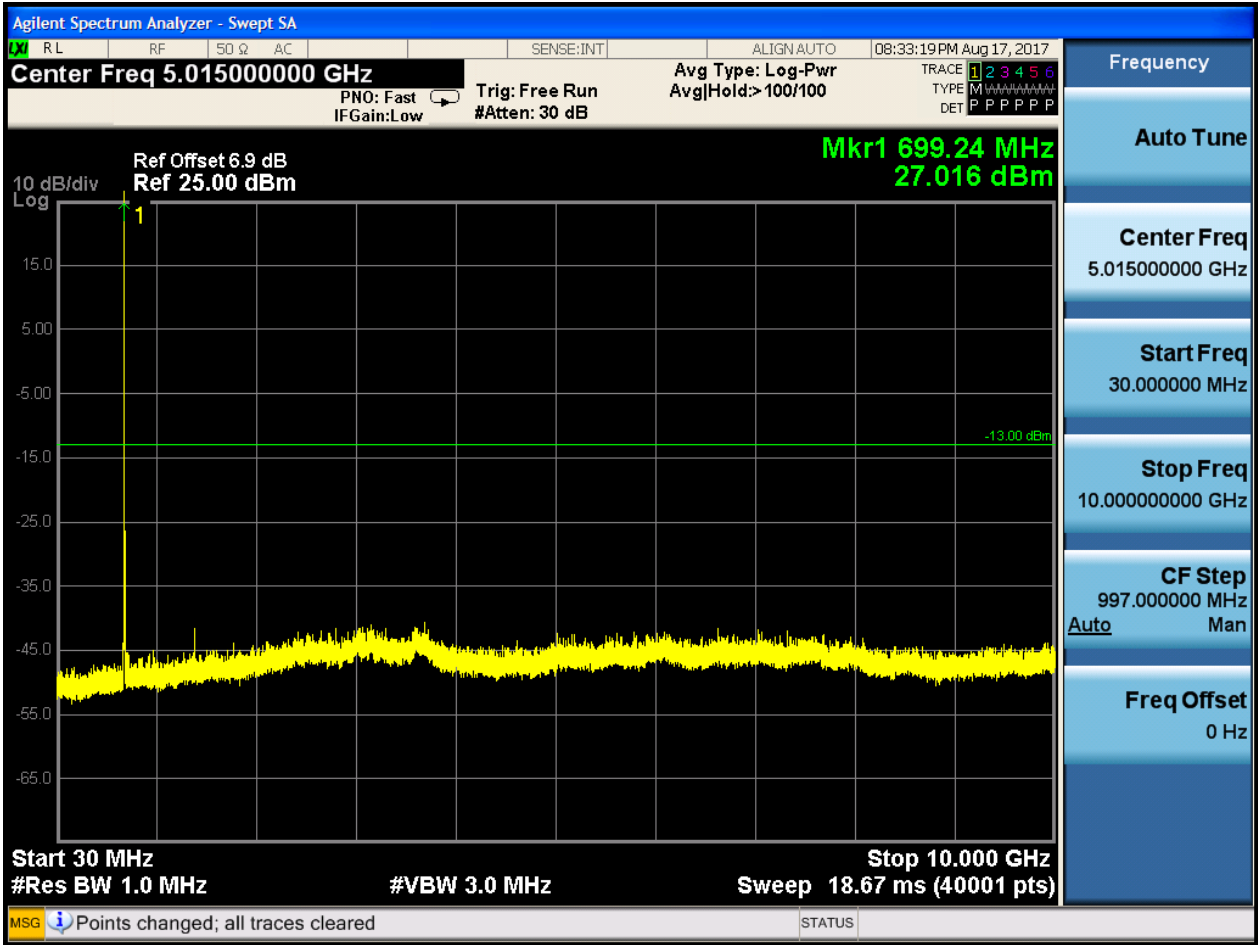


6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

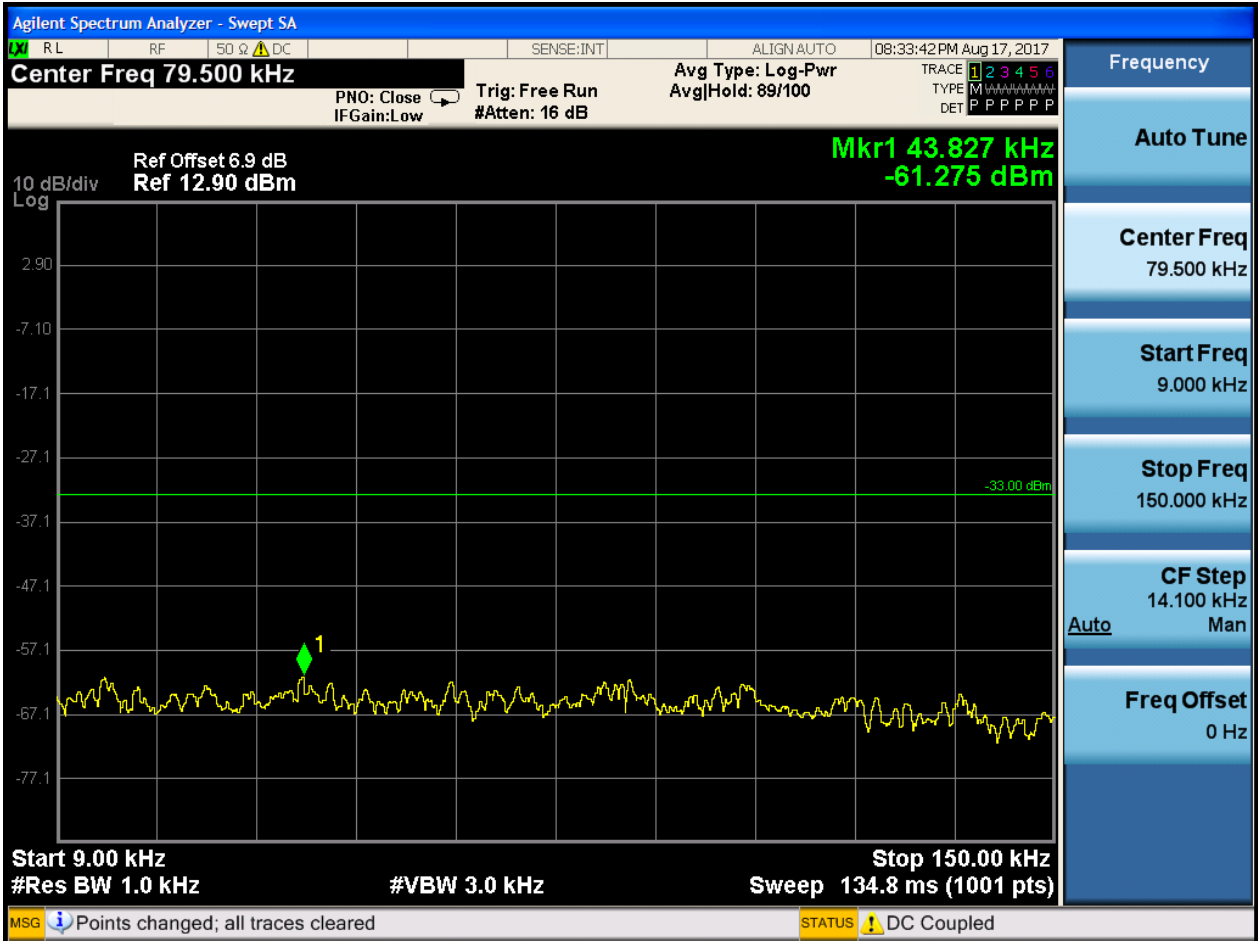






6.1.1.2.3.2 Test Channel = MCH

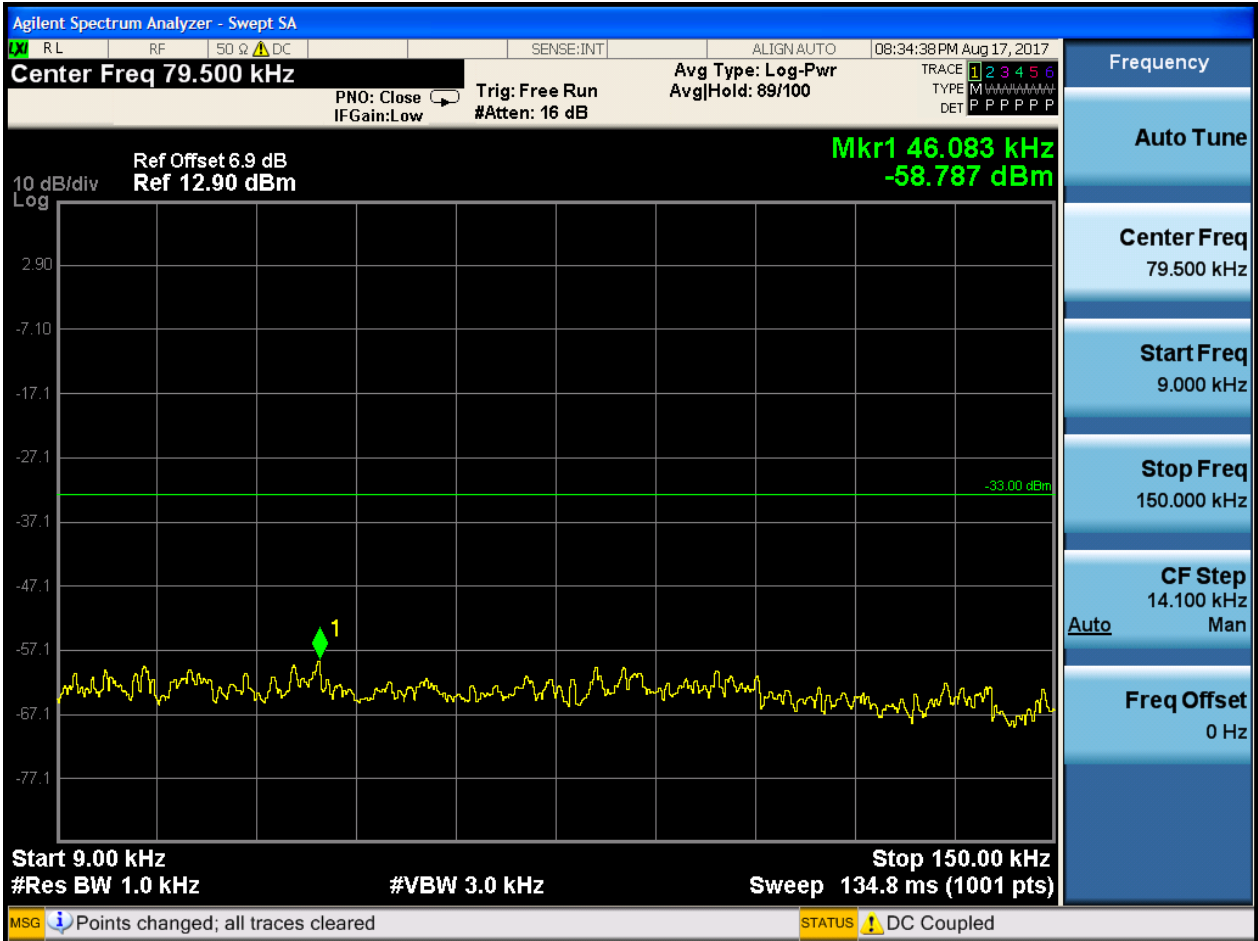
6.1.1.2.3.2.1 Test RB = RB1#0

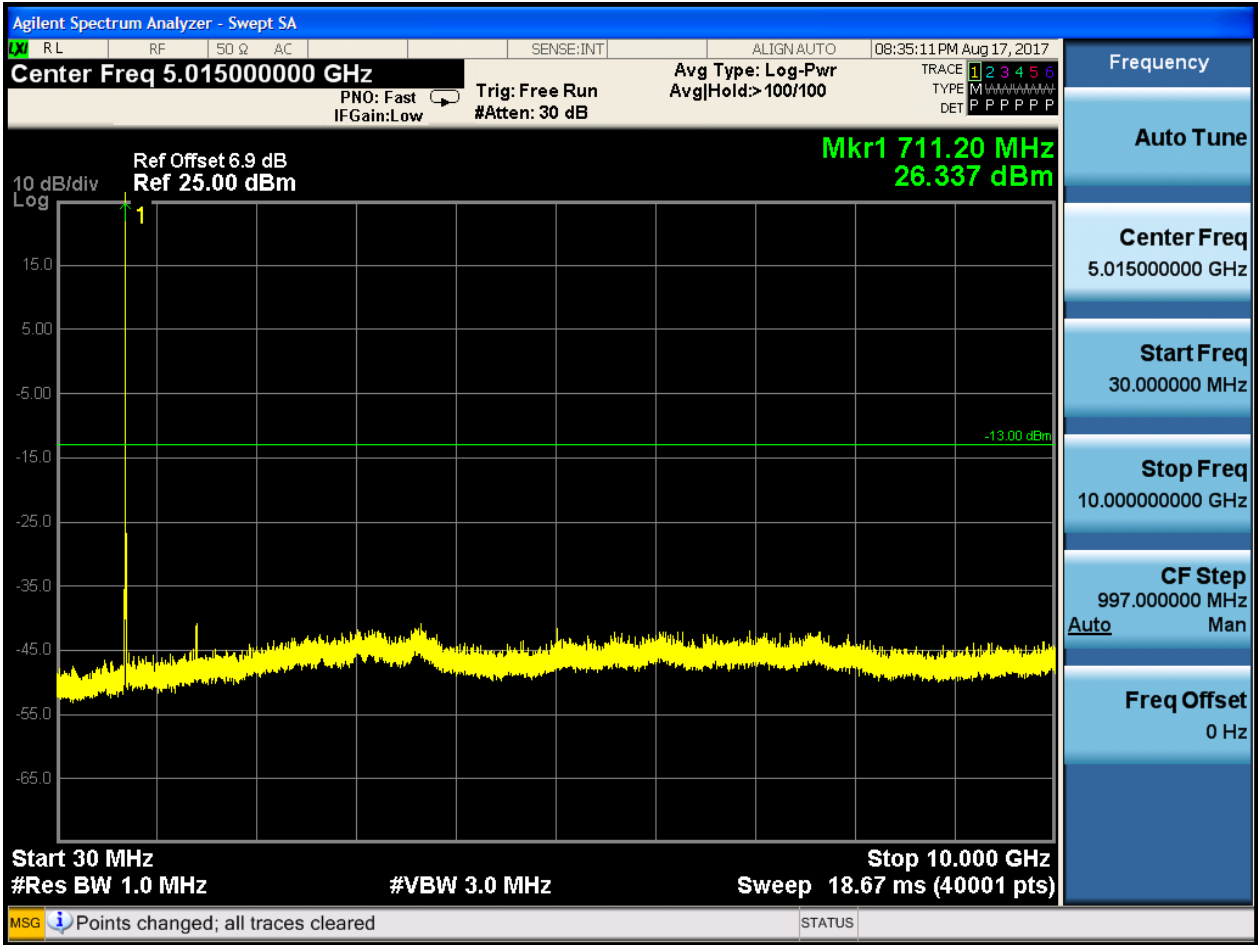




6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0



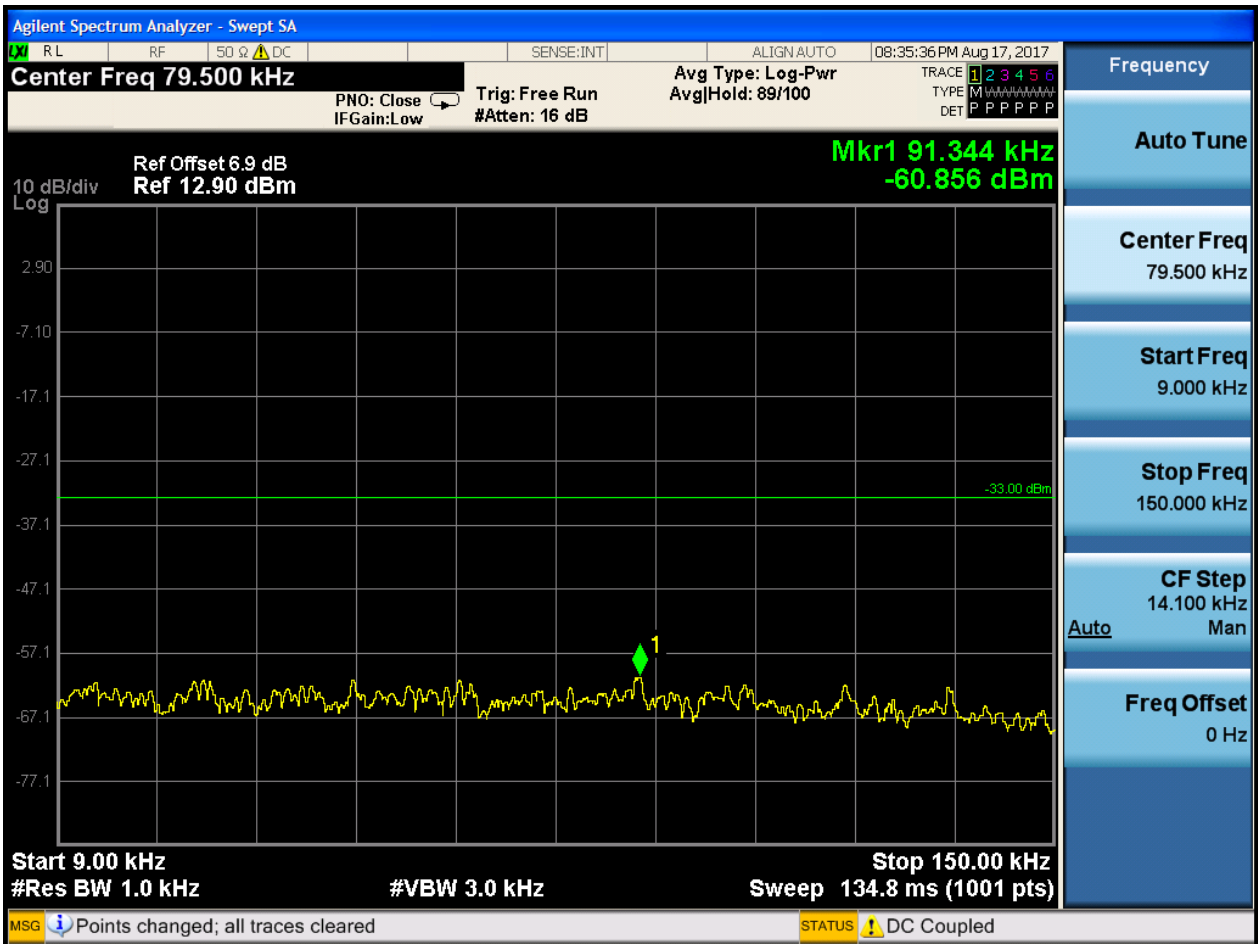


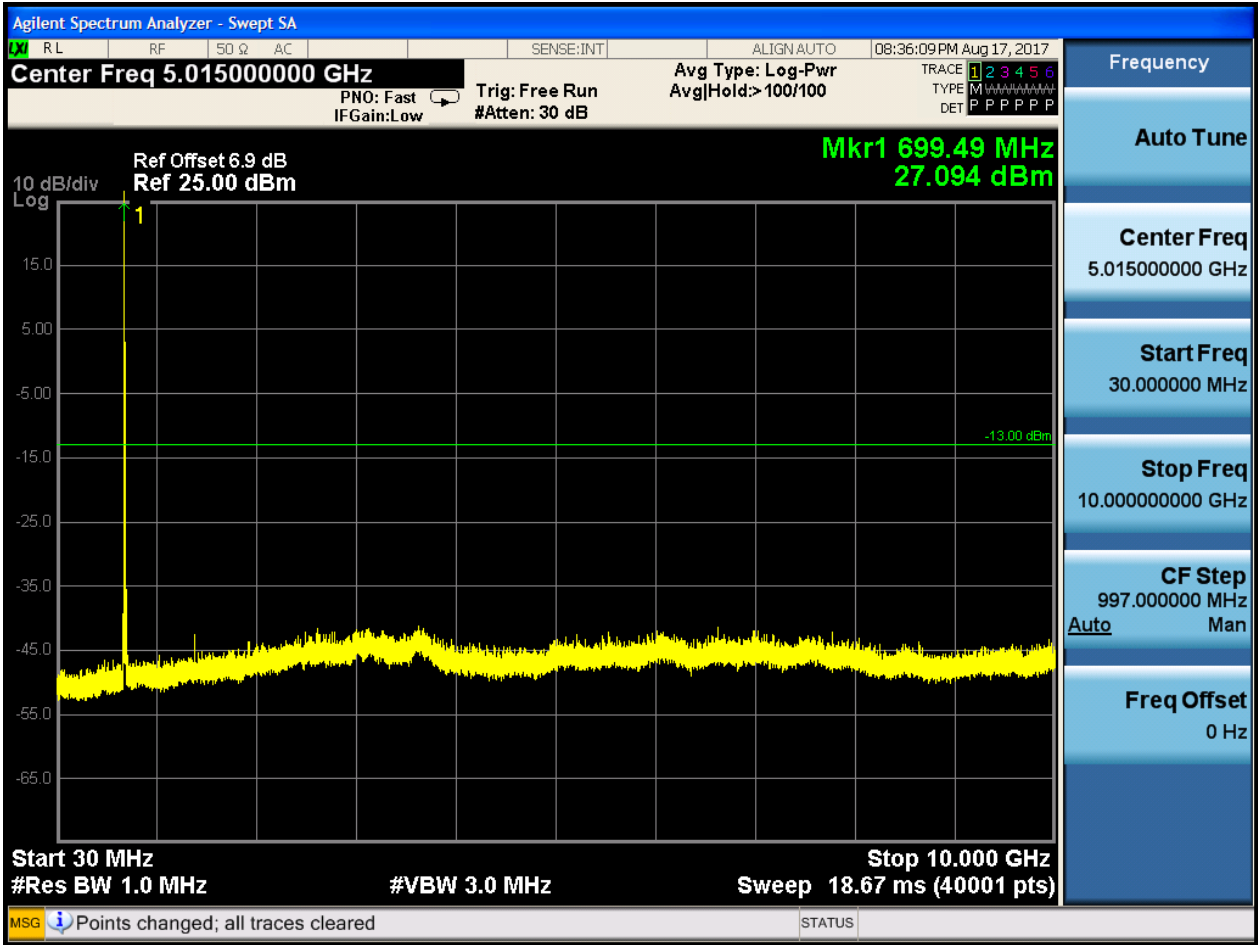


6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

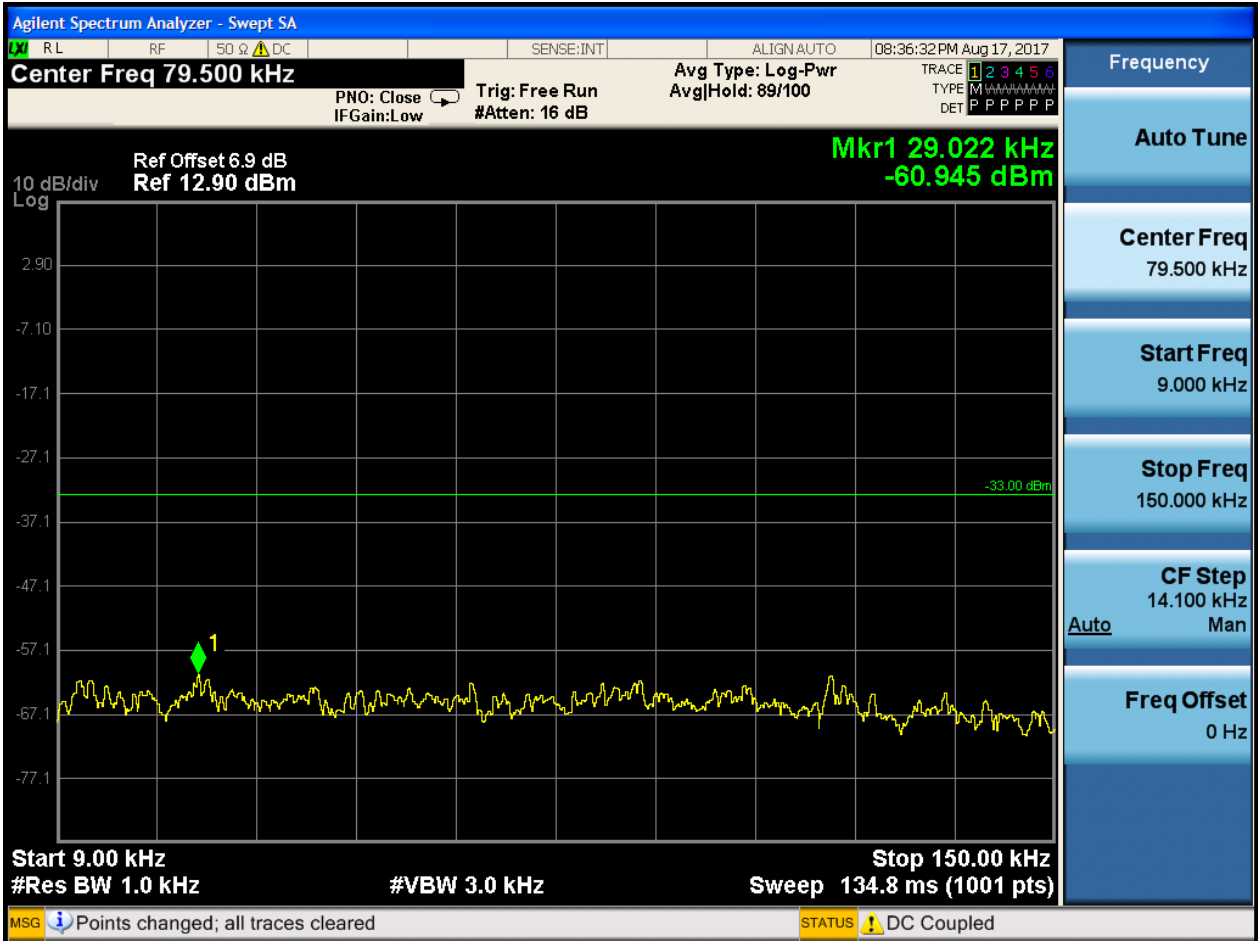


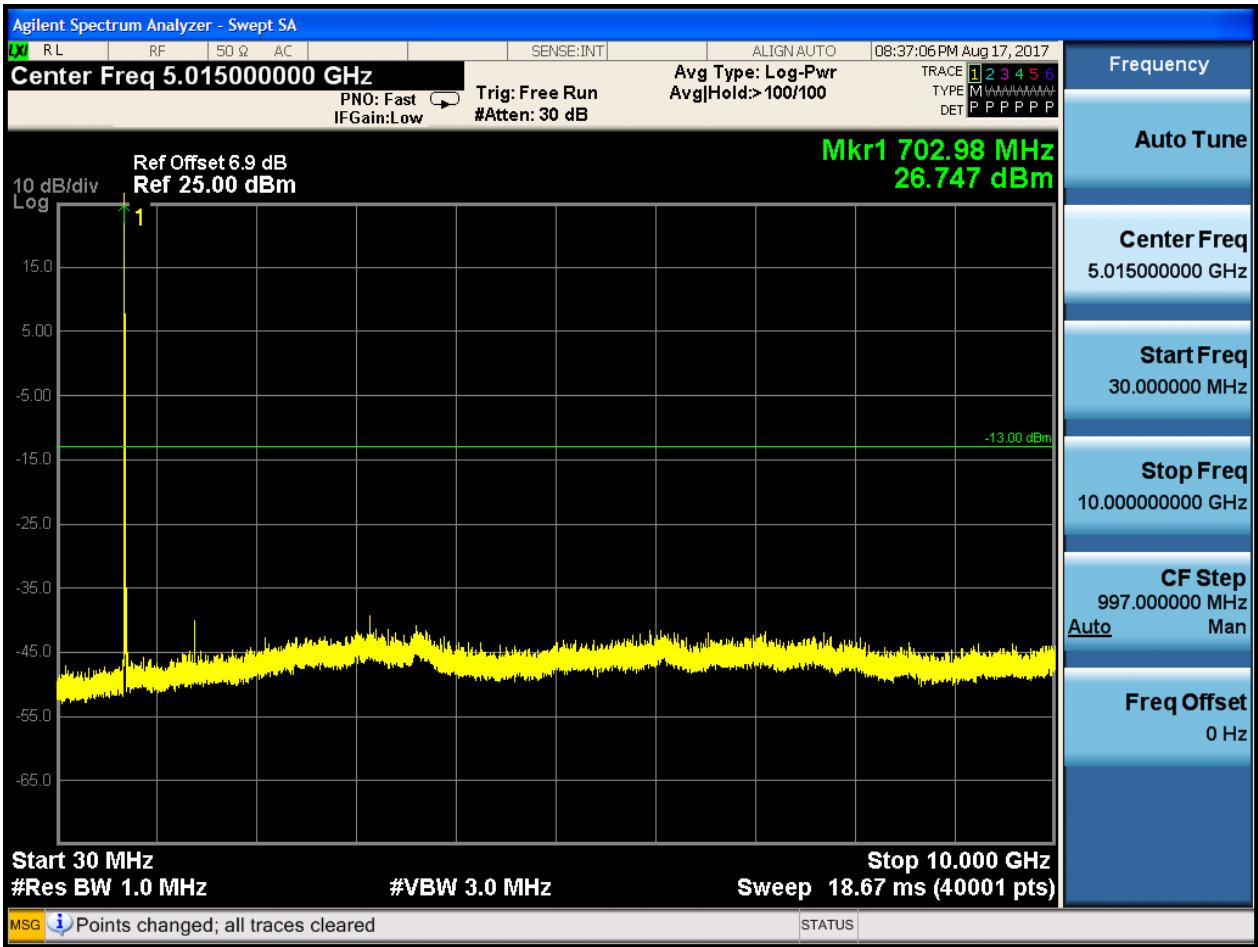




6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0

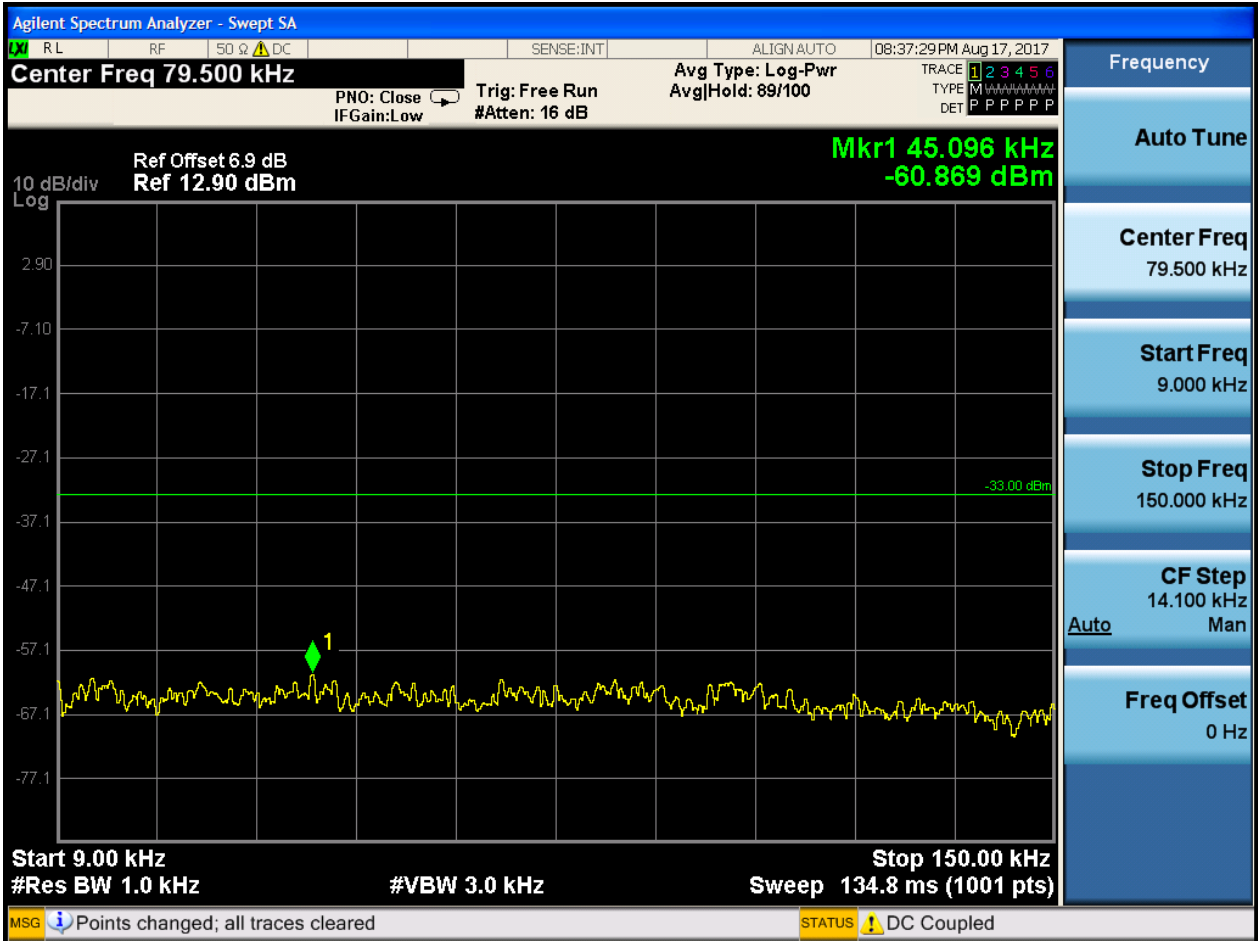


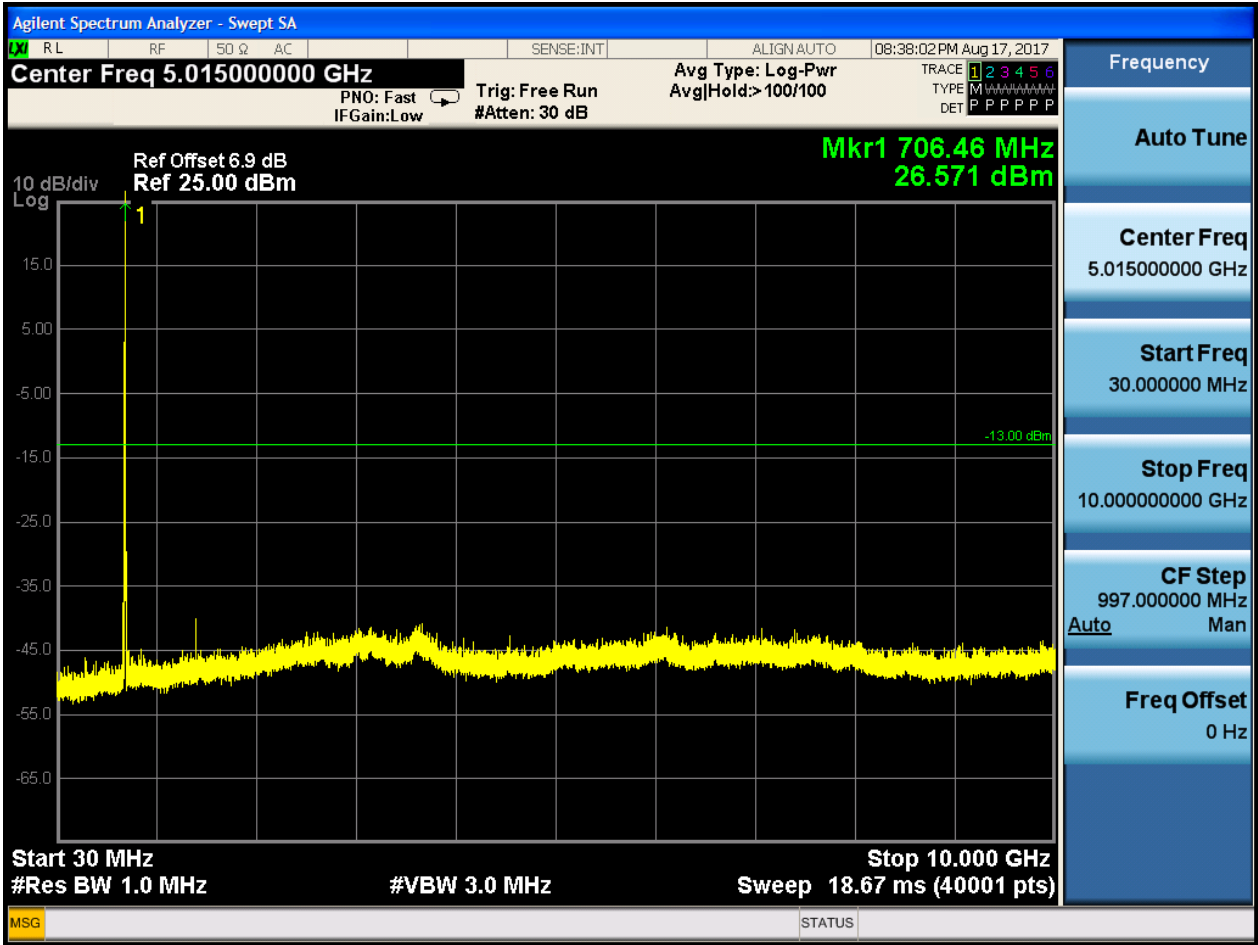




6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0





7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, VBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, VBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

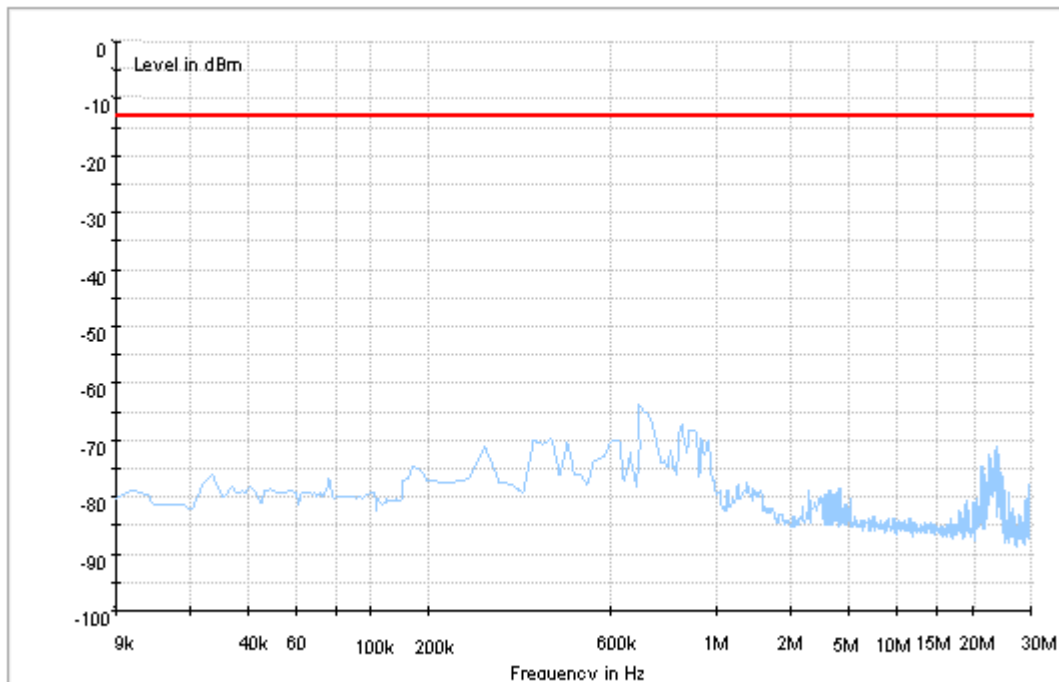
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

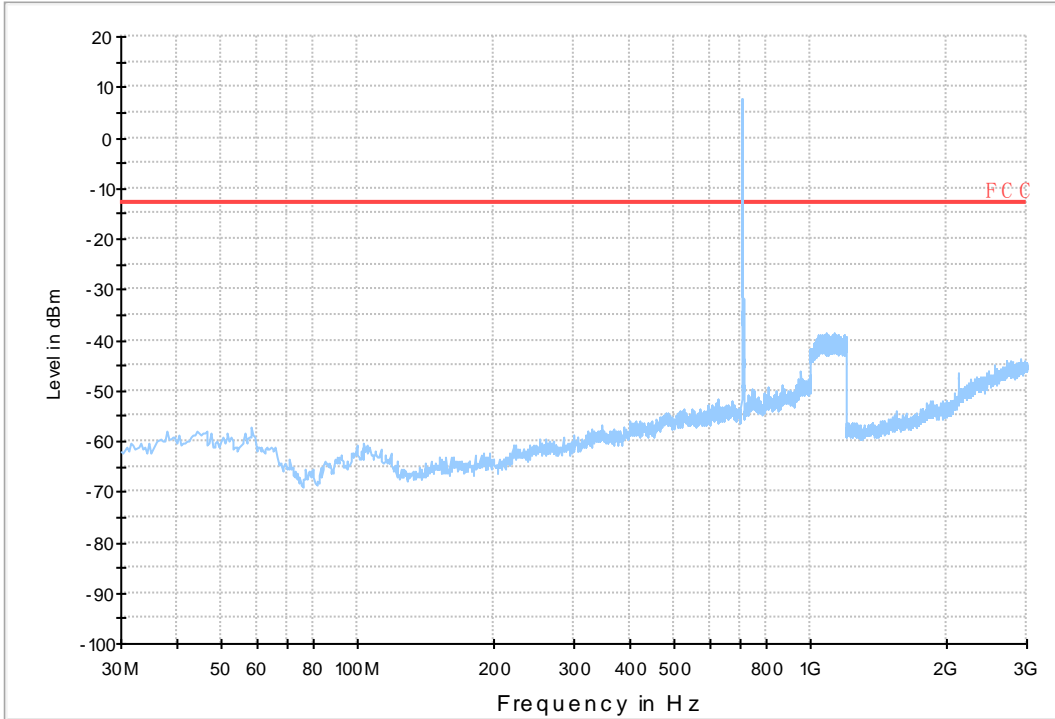
7.1 For LTE

7.1.1 Test Band = BAND12_ANT1

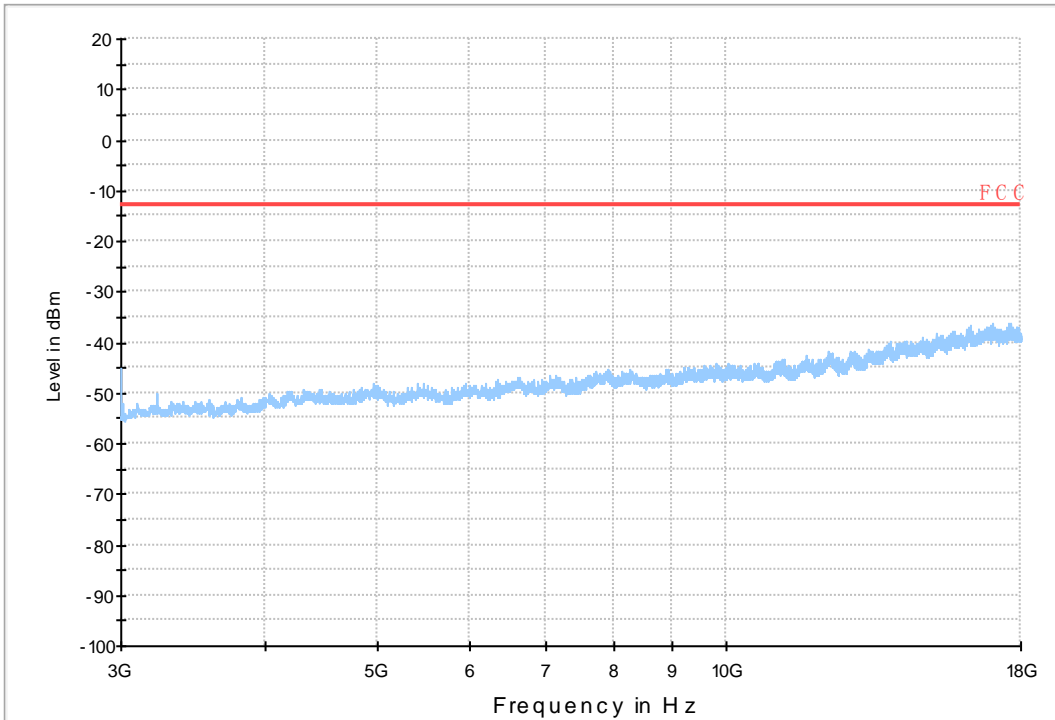
7.1.1.1 Test Bandwidth = 1.4



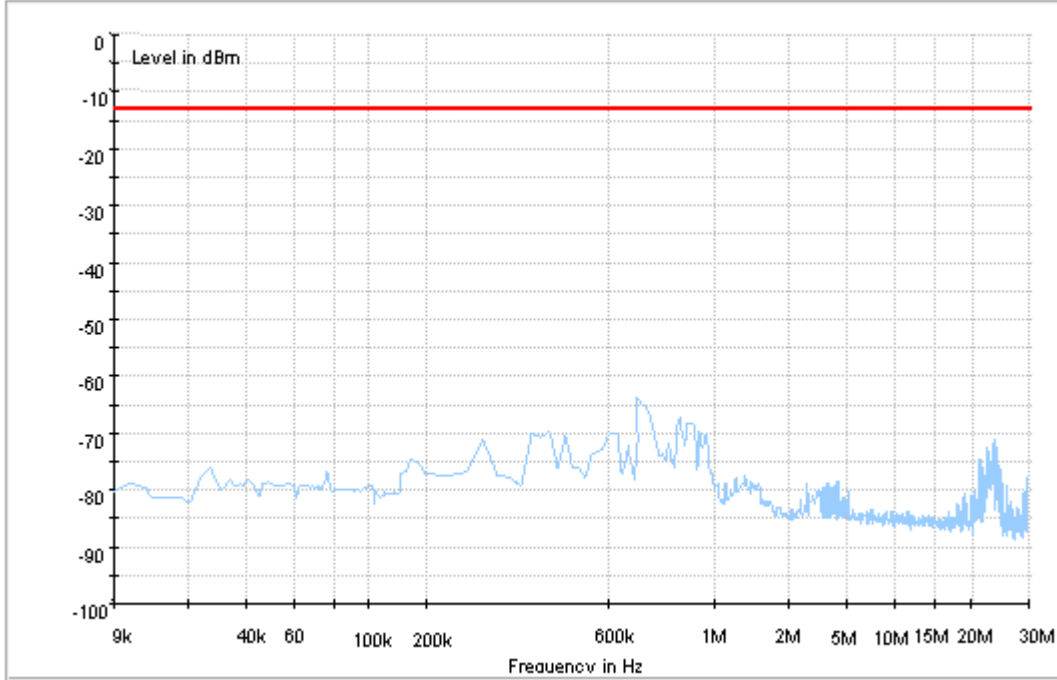
Copy of RSE-TX-DIRECTOR BELOW 1G_L



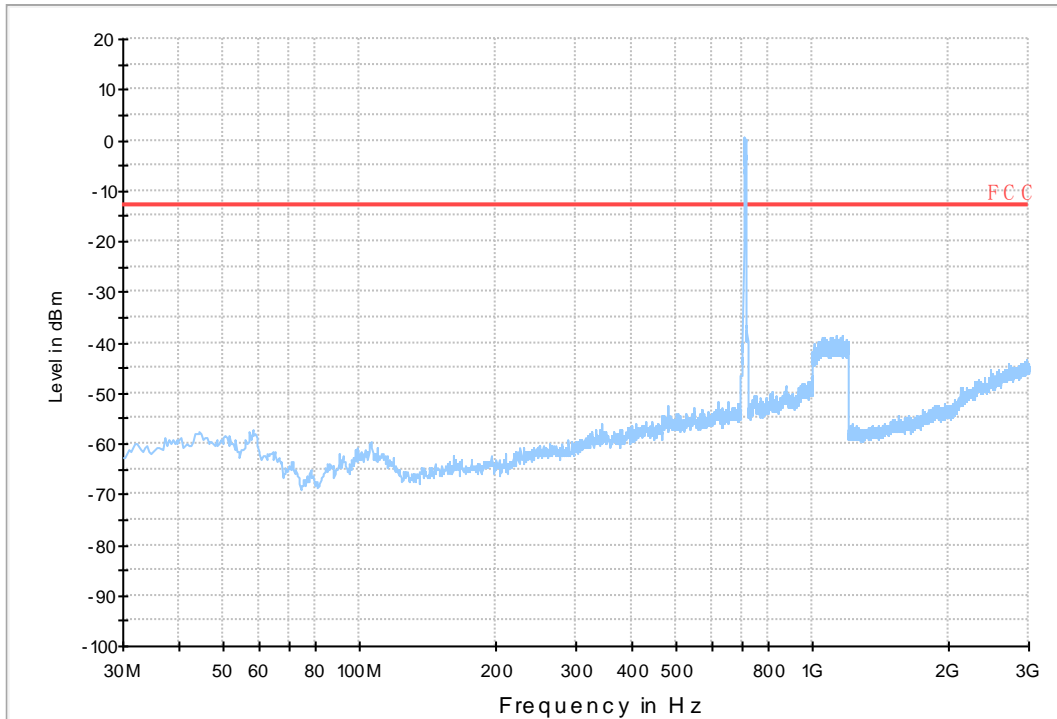
Copy of RSE-TX-DIRECTOR BELOW 1G_H



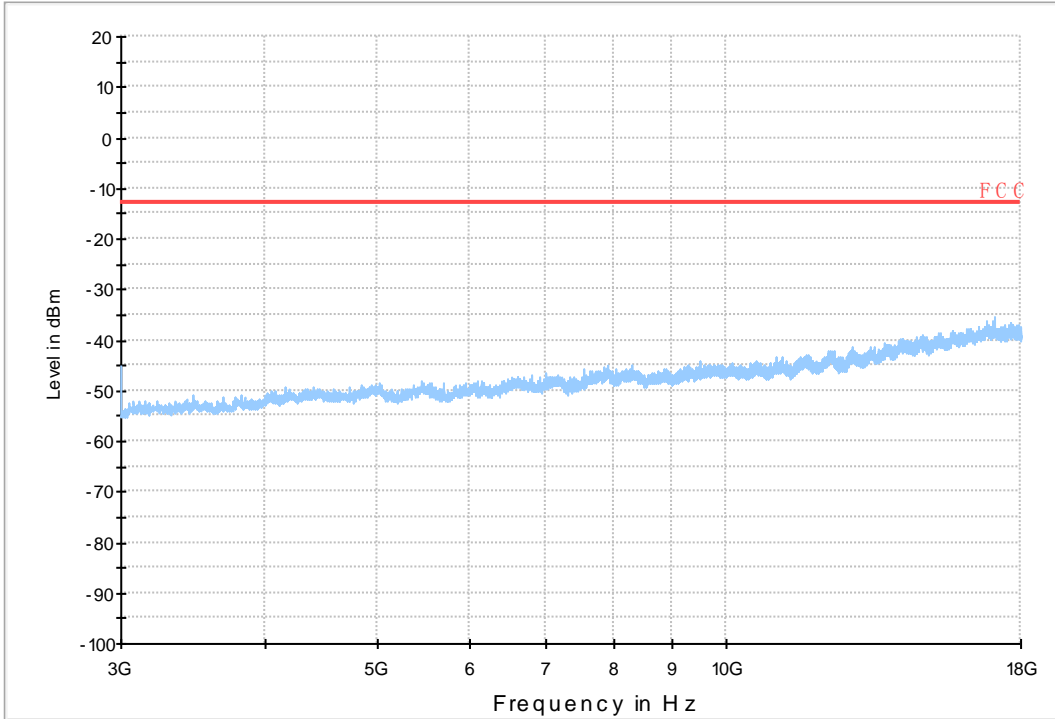
7.1.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L

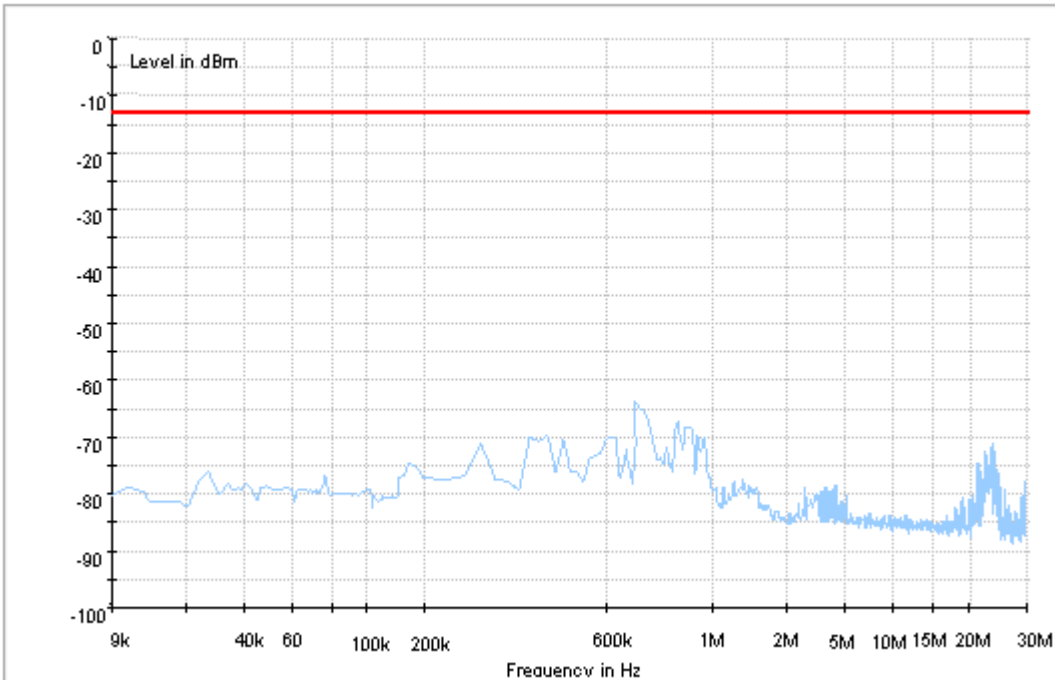


Copy of RSE-TX-DIRECTOR BELOW 1G_H

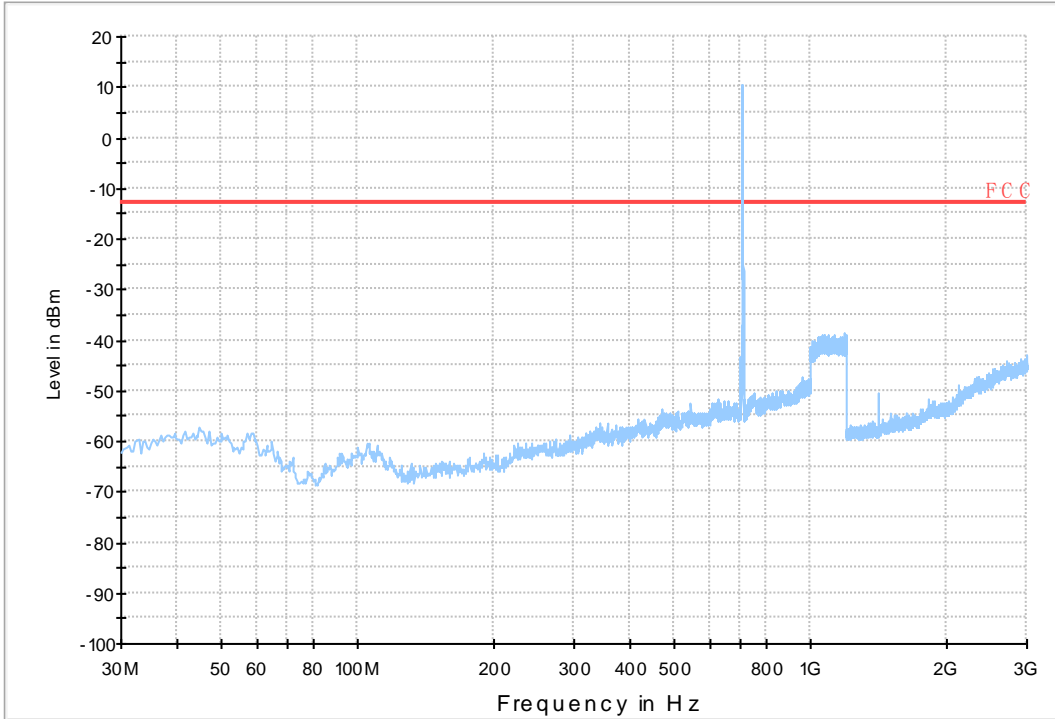


7.1.2 Test Band = BAND12_ANT2

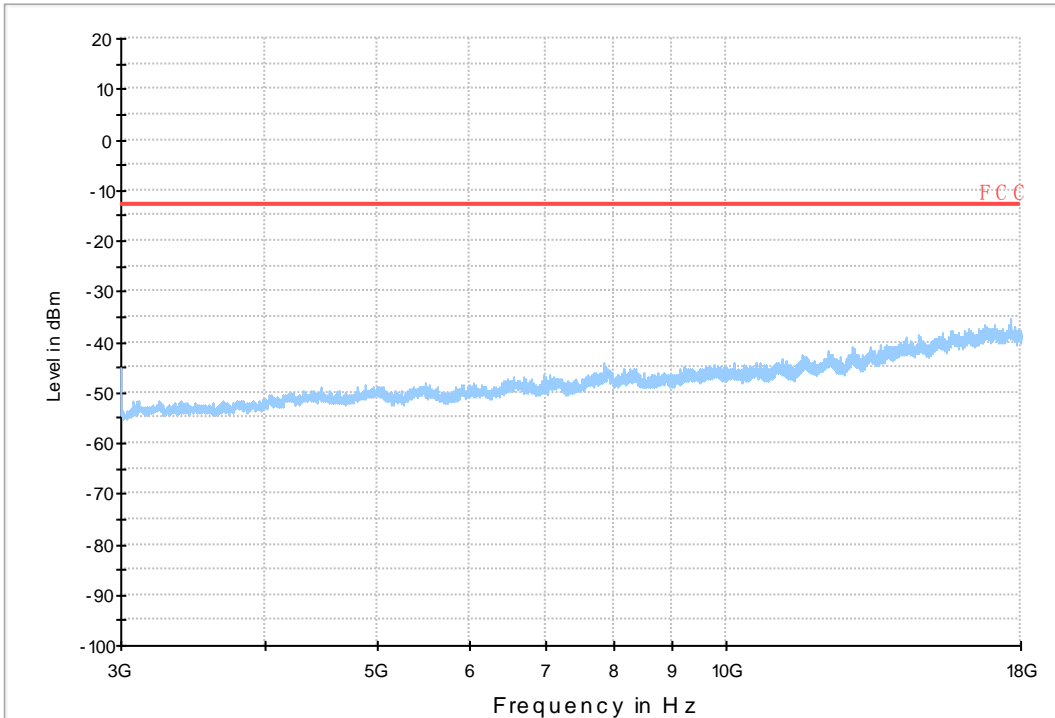
7.1.2.1 Test Bandwidth = 1.4



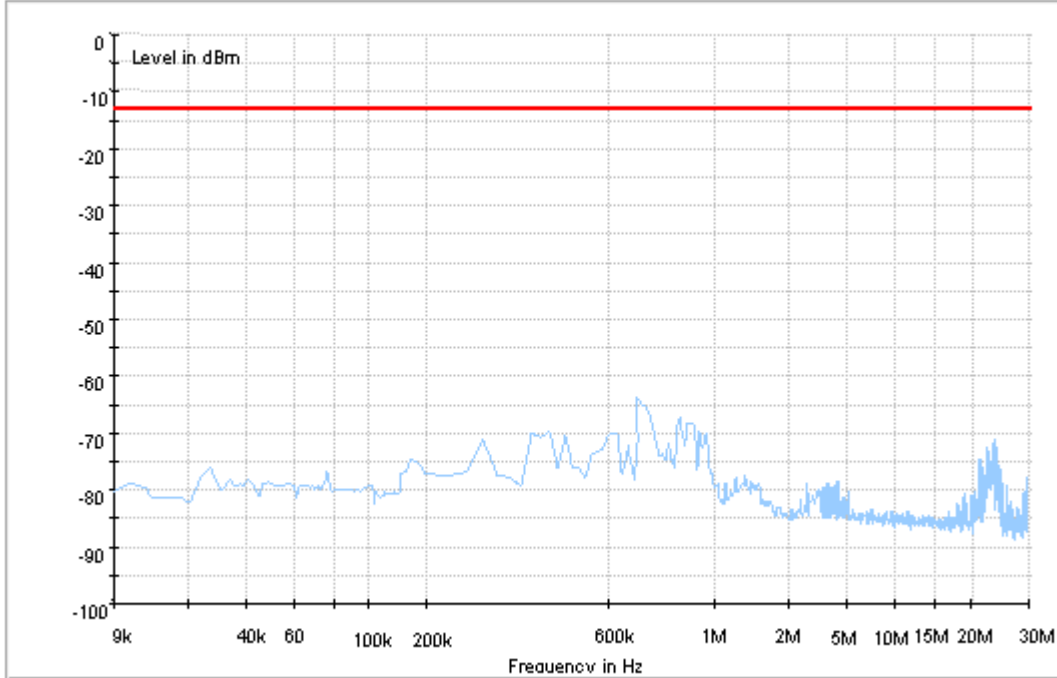
Copy of RSE-TX-DIRECTOR BELOW 1G_L



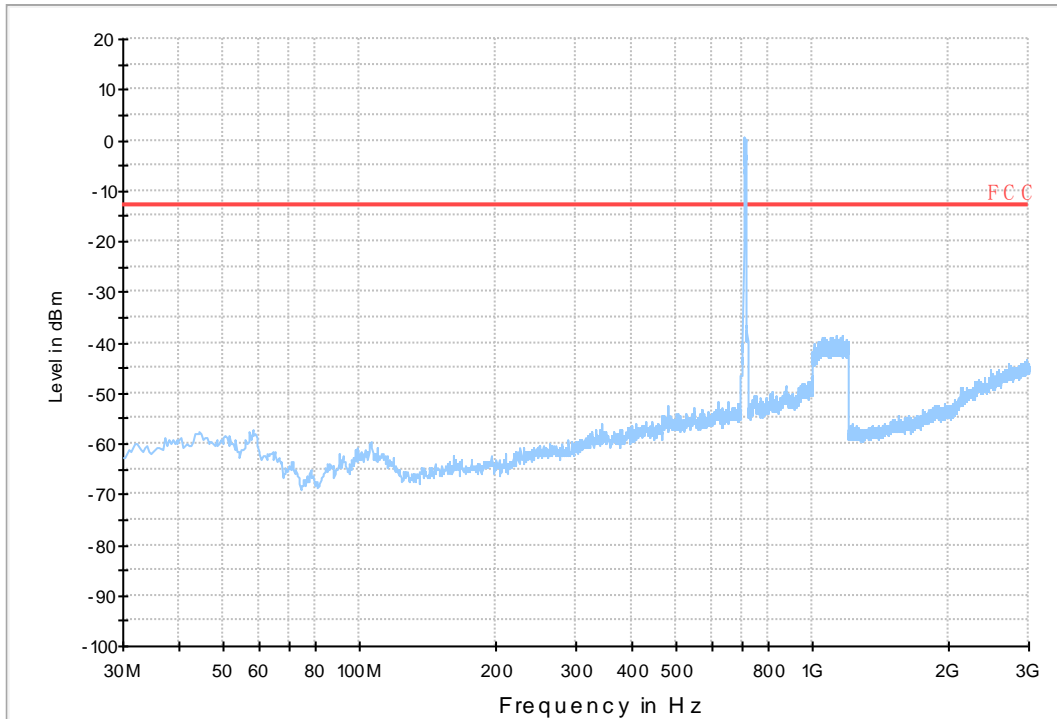
Copy of RSE-TX-DIRECTOR BELOW 1G_H



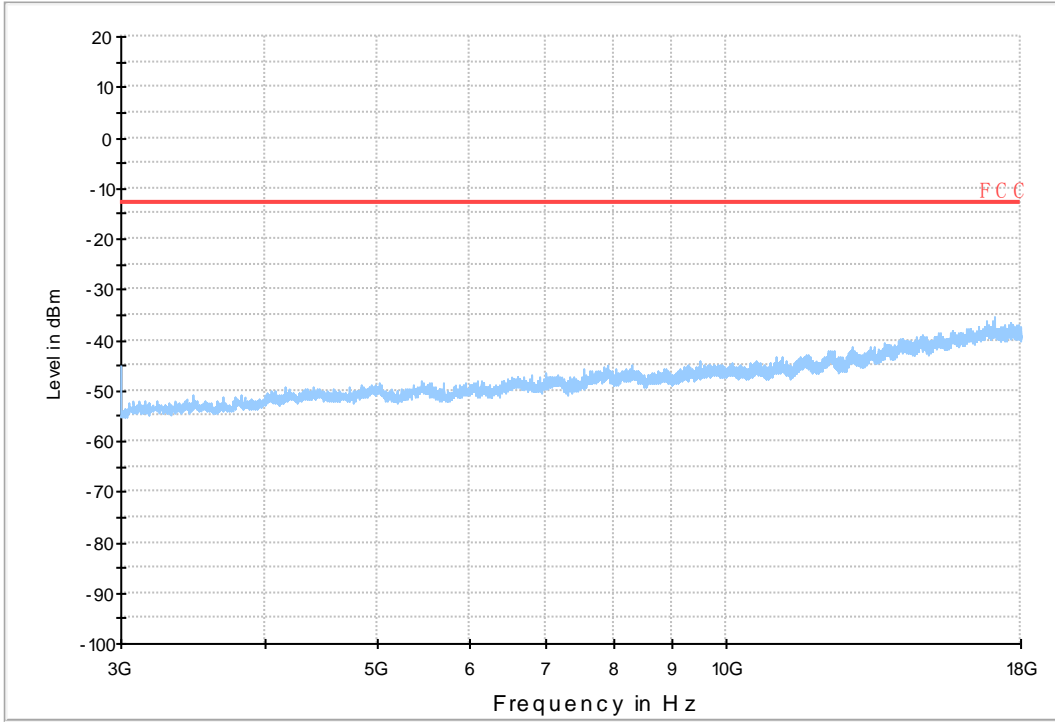
7.1.2.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND12	LTE/TM1	1.4	LCH	TN	VL	-0.53	-0.00076	PASS
					VN	4.46	0.00637	PASS
					VH	-5.44	-0.00777	PASS
			MCH	TN	VL	-7.14	-0.01009	PASS
					VN	-0.93	-0.00131	PASS
					VH	-3.63	-0.00513	PASS
			HCH	TN	VL	-5.25	-0.00734	PASS
					VN	7.38	0.01032	PASS
					VH	1.34	0.00187	PASS
		3	LCH	TN	VL	-0.39	-0.00056	PASS
					VN	-4.84	-0.00691	PASS
					VH	-4.58	-0.00654	PASS
			MCH	TN	VL	-1.75	-0.00247	PASS
					VN	-0.49	-0.00069	PASS
					VH	1.27	0.0018	PASS
			HCH	TN	VL	-1.37	-0.00192	PASS
					VN	-0.14	-0.0002	PASS
					VH	5.25	0.00735	PASS
		5	LCH	TN	VL	3.33	0.00475	PASS
					VN	0.84	0.0012	PASS
					VH	0.26	0.00037	PASS
			MCH	TN	VL	-0.30	-0.00042	PASS
					VN	0.56	0.00079	PASS
					VH	-0.84	-0.00119	PASS
			HCH	TN	VL	0.20	0.00028	PASS
					VN	-1.20	-0.00168	PASS
					VH	-0.17	-0.00024	PASS
10	LCH	TN	VL	0.59	0.00084	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
			MCH	TN	VN	-0.09	-0.00013	PASS	
					VH	-0.51	-0.00072	PASS	
					VL	2.25	0.00318	PASS	
			VN	-0.46	-0.00065	PASS			
			VH	0.87	0.00123	PASS			
			VL	-1.73	-0.00243	PASS			
		HCH	TN	VN	-0.06	-0.00008	PASS		
				VH	-1.40	-0.00197	PASS		
				VL	4.48	0.0064	PASS		
		LTE/TM2	1.4	LCH	TN	VN	-5.28	-0.00755	PASS
						VH	-0.56	-0.0008	PASS
						VL	-1.42	-0.00201	PASS
	MCH			TN	VN	2.32	0.00328	PASS	
					VH	-3.93	-0.00555	PASS	
					VL	5.99	0.00837	PASS	
	HCH		TN	VN	3.79	0.0053	PASS		
				VH	0.07	0.0001	PASS		
				VL	-0.90	-0.00128	PASS		
	3		LCH	TN	VN	0.57	0.00081	PASS	
					VH	2.30	0.00328	PASS	
					VL	5.41	0.00765	PASS	
			MCH	TN	VN	0.43	0.00061	PASS	
					VH	-0.57	-0.00081	PASS	
					VL	-1.96	-0.00274	PASS	
	HCH		TN	VN	-0.76	-0.00106	PASS		
				VH	-2.69	-0.00376	PASS		
				VL	0.14	0.0002	PASS		
	5	LCH	TN	VN	0.07	0.0001	PASS		
				VH	-3.12	-0.00445	PASS		
				VL	-2.02	-0.00286	PASS		
		MCH	TN	VN	-2.32	-0.00328	PASS		
				VH	2.15	0.00304	PASS		
				VL	-0.56	-0.00078	PASS		
	HCH	TN	VN	0.46	0.00064	PASS			
			VH	-0.29	-0.00041	PASS			
			VL	-1.09	-0.00155	PASS			
	10	LCH	TN	VN	-2.50	-0.00355	PASS		
				VH	0.63	0.00089	PASS		
				VL	-1.73	-0.00245	PASS		
				MCH	TN	VL	-1.73	-0.00245	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-0.53	-0.00075	PASS
					VH	-2.15	-0.00304	PASS
			HCH		VL	-1.67	-0.00235	PASS
					VN	-0.26	-0.00037	PASS
					VH	-1.22	-0.00172	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND12	-30	LTE/TM1	1.4	LCH	VN	3.60	0.00515	PASS
				MCH	VN	2.89	0.00408	PASS
				HCH	VN	3.79	0.0053	PASS
			3	LCH	VN	-9.07	-0.01295	PASS
				MCH	VN	0.97	0.00137	PASS
				HCH	VN	3.19	0.00446	PASS
			5	LCH	VN	-0.41	-0.00058	PASS
				MCH	VN	-0.06	-0.00008	PASS
				HCH	VN	-1.82	-0.00255	PASS
			10	LCH	VN	0.36	0.00051	PASS
				MCH	VN	-2.03	-0.00287	PASS
				HCH	VN	0.04	0.00006	PASS
	-30	LTE/TM2	1.4	LCH	VN	0.73	0.00104	PASS
				MCH	VN	-1.24	-0.00175	PASS
				HCH	VN	5.64	0.00788	PASS
			3	LCH	VN	-0.46	-0.00066	PASS
				MCH	VN	7.72	0.01091	PASS
				HCH	VN	1.50	0.0021	PASS
			5	LCH	VN	0.07	0.0001	PASS
				MCH	VN	0.11	0.00016	PASS
				HCH	VN	-1.44	-0.00202	PASS
			10	LCH	VN	2.35	0.00334	PASS
				MCH	VN	-0.49	-0.00069	PASS
				HCH	VN	-1.20	-0.00169	PASS
-20	LTE/TM1	1.4	LCH	VN	-13.09	-0.01871	PASS	
			MCH	VN	-18.70	-0.02643	PASS	
			HCH	VN	-0.33	-0.00046	PASS	
		3	LCH	VN	-0.93	-0.00133	PASS	



Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
		LTE/TM2	5	MCH	VN	-0.19	-0.00027	PASS	
				HCH	VN	-11.66	-0.01632	PASS	
				LCH	VN	0.07	0.0001	PASS	
			10	MCH	VN	-0.57	-0.00081	PASS	
				HCH	VN	-0.67	-0.00094	PASS	
				LCH	VN	-2.02	-0.00287	PASS	
			LTE/TM2	1.4	LCH	VN	-0.24	-0.00034	PASS
					MCH	VN	-3.28	-0.00464	PASS
					HCH	VN	-2.30	-0.00322	PASS
		3		LCH	VN	-6.04	-0.00862	PASS	
				MCH	VN	-1.65	-0.00233	PASS	
				HCH	VN	-0.47	-0.00066	PASS	
		5		LCH	VN	-4.35	-0.0062	PASS	
				MCH	VN	-0.37	-0.00052	PASS	
				HCH	VN	0.60	0.00084	PASS	
		10	LCH	VN	0.90	0.00128	PASS		
			MCH	VN	-3.02	-0.00427	PASS		
			HCH	VN	-0.26	-0.00037	PASS		
	-10	LTE/TM1	1.4	LCH	VN	-7.54	-0.01078	PASS	
				MCH	VN	1.12	0.00158	PASS	
				HCH	VN	2.37	0.00331	PASS	
			3	LCH	VN	2.65	0.00378	PASS	
				MCH	VN	0.50	0.00071	PASS	
				HCH	VN	4.89	0.00684	PASS	
			5	LCH	VN	-2.39	-0.00341	PASS	
				MCH	VN	-0.62	-0.00088	PASS	
				HCH	VN	-1.87	-0.00262	PASS	
		10	LCH	VN	-0.50	-0.00071	PASS		
			MCH	VN	-0.70	-0.00099	PASS		
			HCH	VN	-0.43	-0.0006	PASS		
		LTE/TM2	1.4	LCH	VN	-1.46	-0.00209	PASS	
				MCH	VN	2.73	0.00386	PASS	
				HCH	VN	0.60	0.00084	PASS	
			3	LCH	VN	-1.36	-0.00194	PASS	
				MCH	VN	-3.09	-0.00437	PASS	
				HCH	VN	5.34	0.00747	PASS	
5	LCH	VN	8.08	0.01152	PASS				



Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	0	LTE/TM1	10	MCH	VN	-3.15	-0.00445	PASS
				HCH	VN	0.31	0.00043	PASS
			1.4	LCH	VN	-2.26	-0.00321	PASS
				MCH	VN	-2.75	-0.00389	PASS
				HCH	VN	0.26	0.00037	PASS
			3	LCH	VN	-0.31	-0.00044	PASS
				MCH	VN	11.32	0.016	PASS
				HCH	VN	-16.68	-0.02332	PASS
				LCH	VN	2.37	0.00338	PASS
				MCH	VN	1.04	0.00147	PASS
	HCH	VN		3.10	0.00434	PASS		
	5	LCH	VN	-0.57	-0.00081	PASS		
		MCH	VN	-1.63	-0.0023	PASS		
		HCH	VN	0.33	0.00046	PASS		
	10	LCH	VN	-1.40	-0.00199	PASS		
		MCH	VN	-3.25	-0.00459	PASS		
		HCH	VN	0.62	0.00087	PASS		
	0	LTE/TM2	1.4	LCH	VN	0.72	0.00103	PASS
				MCH	VN	16.69	0.02359	PASS
				HCH	VN	-1.54	-0.00215	PASS
			3	LCH	VN	-0.90	-0.00128	PASS
				MCH	VN	-0.03	-0.00004	PASS
				HCH	VN	6.08	0.00851	PASS
			5	LCH	VN	-0.36	-0.00051	PASS
				MCH	VN	-0.34	-0.00048	PASS
				HCH	VN	0.04	0.00006	PASS
			10	LCH	VN	0.26	0.00037	PASS
				MCH	VN	0.64	0.0009	PASS
				HCH	VN	-0.84	-0.00118	PASS
	10	LTE/TM1	1.4	LCH	VN	-16.41	-0.02345	PASS
				MCH	VN	-3.22	-0.00455	PASS
				HCH	VN	-1.89	-0.00264	PASS
			3	LCH	VN	2.55	0.00364	PASS
				MCH	VN	4.65	0.00657	PASS
				HCH	VN	2.37	0.00332	PASS
			5	LCH	VN	0.47	0.00067	PASS
MCH				VN	0.36	0.00051	PASS	
HCH				VN	-0.76	-0.00107	PASS	
10			LCH	VN	-1.23	-0.00175	PASS	



Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
		LTE/TM2		MCH	VN	0.92	0.0013	PASS	
				HCH	VN	0.04	0.00006	PASS	
			1.4	LCH	VN	0.19	0.00027	PASS	
				MCH	VN	11.01	0.01556	PASS	
				HCH	VN	1.39	0.00194	PASS	
				LCH	VN	-0.31	-0.00044	PASS	
			3	MCH	VN	4.41	0.00623	PASS	
				HCH	VN	12.46	0.01744	PASS	
				LCH	VN	-1.27	-0.00181	PASS	
			5	MCH	VN	1.62	0.00229	PASS	
				HCH	VN	2.10	0.00294	PASS	
				LCH	VN	0.23	0.00033	PASS	
			10	MCH	VN	-2.42	-0.00342	PASS	
				HCH	VN	-1.39	-0.00195	PASS	
				LCH	VN	3.32	0.00474	PASS	
			LTE/TM1	1.4	MCH	VN	1.75	0.00247	PASS
					HCH	VN	2.56	0.00358	PASS
					LCH	VN	1.37	0.00196	PASS
		3			MCH	VN	2.55	0.0036	PASS
					HCH	VN	-3.58	-0.00501	PASS
					LCH	VN	-2.65	-0.00378	PASS
		5			MCH	VN	0.70	0.00099	PASS
					HCH	VN	-1.17	-0.00164	PASS
					LCH	VN	0.09	0.00013	PASS
		10		MCH	VN	0.92	0.0013	PASS	
				HCH	VN	0.11	0.00015	PASS	
				LCH	VN	6.49	0.00928	PASS	
		LTE/TM2		1.4	MCH	VN	10.71	0.01514	PASS
					HCH	VN	-0.74	-0.00103	PASS
					LCH	VN	-2.49	-0.00355	PASS
				3	MCH	VN	-0.49	-0.00069	PASS
					HCH	VN	2.27	0.00318	PASS
					LCH	VN	0.62	0.00088	PASS
				5	MCH	VN	-0.77	-0.00109	PASS
					HCH	VN	-1.33	-0.00186	PASS
					LCH	VN	-0.93	-0.00132	PASS
		10		MCH	VN	0.27	0.00038	PASS	
				HCH	VN	-0.21	-0.0003	PASS	
				LCH	VN	-5.12	-0.00732	PASS	
		30	LTE/TM1	1.4	LCH	VN	-5.12	-0.00732	PASS



Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
			3	MCH	VN	5.56	0.00786	PASS			
				HCH	VN	-9.96	-0.01392	PASS			
				LCH	VN	0.14	0.0002	PASS			
				MCH	VN	1.17	0.00165	PASS			
				HCH	VN	-3.55	-0.00497	PASS			
				LCH	VN	0.37	0.00053	PASS			
			5	MCH	VN	-0.26	-0.00037	PASS			
				HCH	VN	-0.27	-0.00038	PASS			
				LCH	VN	0.50	0.00071	PASS			
			10	MCH	VN	0.77	0.00109	PASS			
				HCH	VN	0.46	0.00065	PASS			
				LCH	VN	-0.17	-0.00024	PASS			
			LTE/TM2	1.4	MCH	VN	1.60	0.00226	PASS		
					HCH	VN	-11.23	-0.0157	PASS		
					LCH	VN	0.26	0.00037	PASS		
				3	MCH	VN	-5.01	-0.00708	PASS		
					HCH	VN	-0.19	-0.00027	PASS		
					LCH	VN	-2.13	-0.00304	PASS		
		5		MCH	VN	1.97	0.00278	PASS			
				HCH	VN	0.03	0.00004	PASS			
				LCH	VN	-0.17	-0.00024	PASS			
		10		MCH	VN	-0.80	-0.00113	PASS			
				HCH	VN	-2.45	-0.00345	PASS			
				LCH	VN	19.10	0.0273	PASS			
		40			LTE/TM1	1.4	MCH	VN	2.07	0.00293	PASS
							HCH	VN	-6.51	-0.0091	PASS
							LCH	VN	-1.89	-0.0027	PASS
						3	MCH	VN	-0.76	-0.00107	PASS
							HCH	VN	-2.63	-0.00368	PASS
							LCH	VN	1.14	0.00163	PASS
			5			MCH	VN	-3.13	-0.00442	PASS	
						HCH	VN	1.46	0.00205	PASS	
						LCH	VN	0.57	0.00081	PASS	
			10		MCH	VN	-1.23	-0.00174	PASS		
					HCH	VN	-0.92	-0.00129	PASS		
					LCH	VN	-1.14	-0.00163	PASS		
LTE/TM2	1.4		MCH		VN	6.94	0.00981	PASS			
			HCH		VN	0.11	0.00015	PASS			
			LCH		VN	3.38	0.00483	PASS			
	3		LCH		VN	3.38	0.00483	PASS			



Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
				MCH	VN	2.43	0.00343	PASS		
				HCH	VN	1.06	0.00148	PASS		
				5	LCH	VN	-3.39	-0.00483	PASS	
					MCH	VN	1.14	0.00161	PASS	
				10	HCH	VN	-1.95	-0.00273	PASS	
					LCH	VN	-1.76	-0.0025	PASS	
			MCH		VN	0.13	0.00018	PASS		
			50	LTE/TM1	1.4	LCH	VN	4.26	0.00609	PASS
						MCH	VN	-6.31	-0.00892	PASS
						HCH	VN	2.82	0.00394	PASS
					3	LCH	VN	0.43	0.00061	PASS
						MCH	VN	8.37	0.01183	PASS
						HCH	VN	-1.70	-0.00238	PASS
					5	LCH	VN	-2.36	-0.00336	PASS
						MCH	VN	-1.60	-0.00226	PASS
	HCH	VN				-0.09	-0.00013	PASS		
	10	LCH			VN	-0.51	-0.00072	PASS		
		MCH			VN	-0.66	-0.00093	PASS		
		HCH			VN	-0.46	-0.00065	PASS		
	LTE/TM2	1.4			LCH	VN	-3.91	-0.00559	PASS	
					MCH	VN	2.10	0.00297	PASS	
					HCH	VN	-5.19	-0.00726	PASS	
		3	LCH	VN	2.35	0.00335	PASS			
			MCH	VN	0.40	0.00057	PASS			
			HCH	VN	7.57	0.01059	PASS			
		5	LCH	VN	-1.27	-0.00181	PASS			
			MCH	VN	0.39	0.00055	PASS			
			HCH	VN	1.23	0.00172	PASS			
		10	LCH	VN	3.38	0.0048	PASS			
			MCH	VN	-0.34	-0.00048	PASS			
HCH			VN	0.06	0.00008	PASS				

END