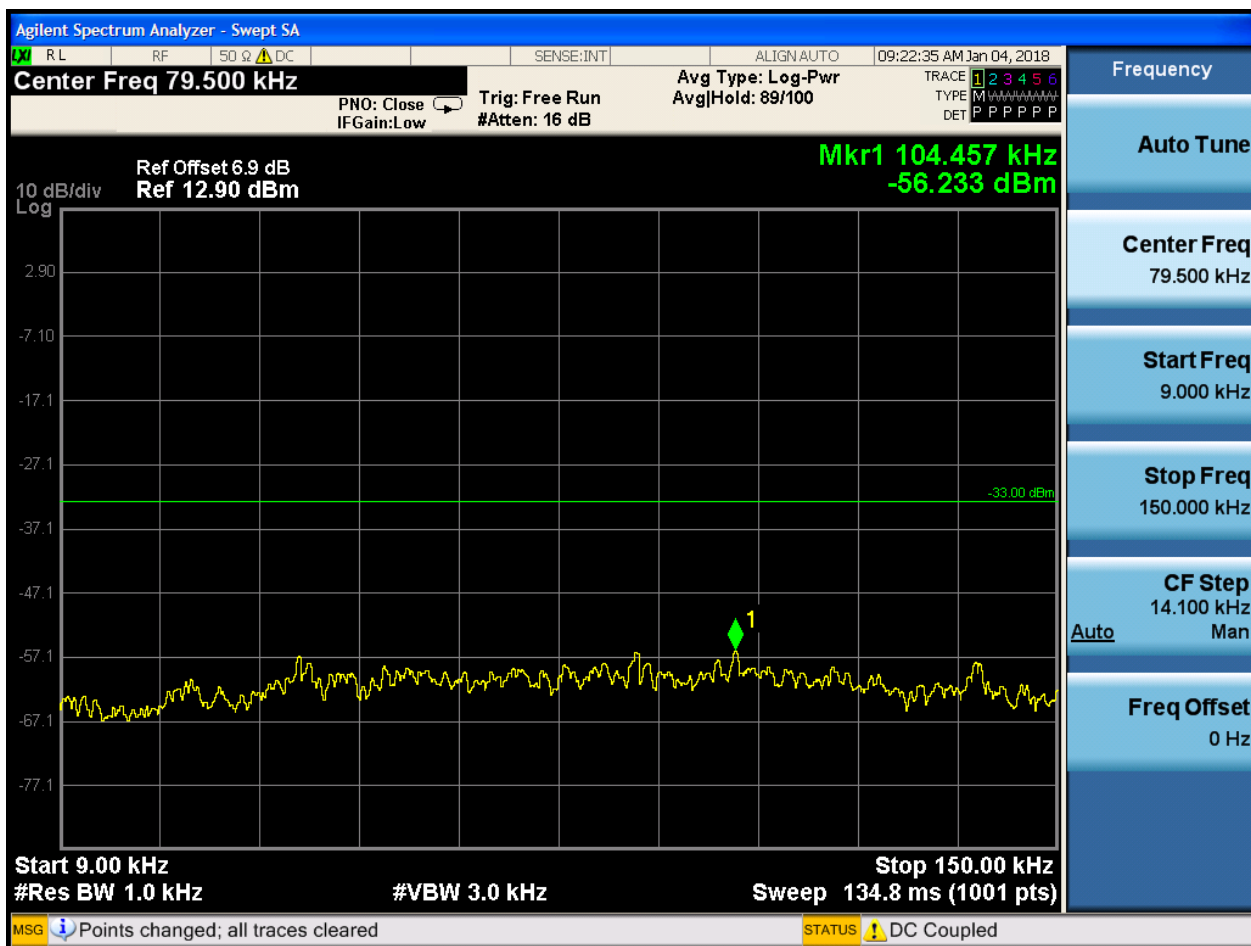
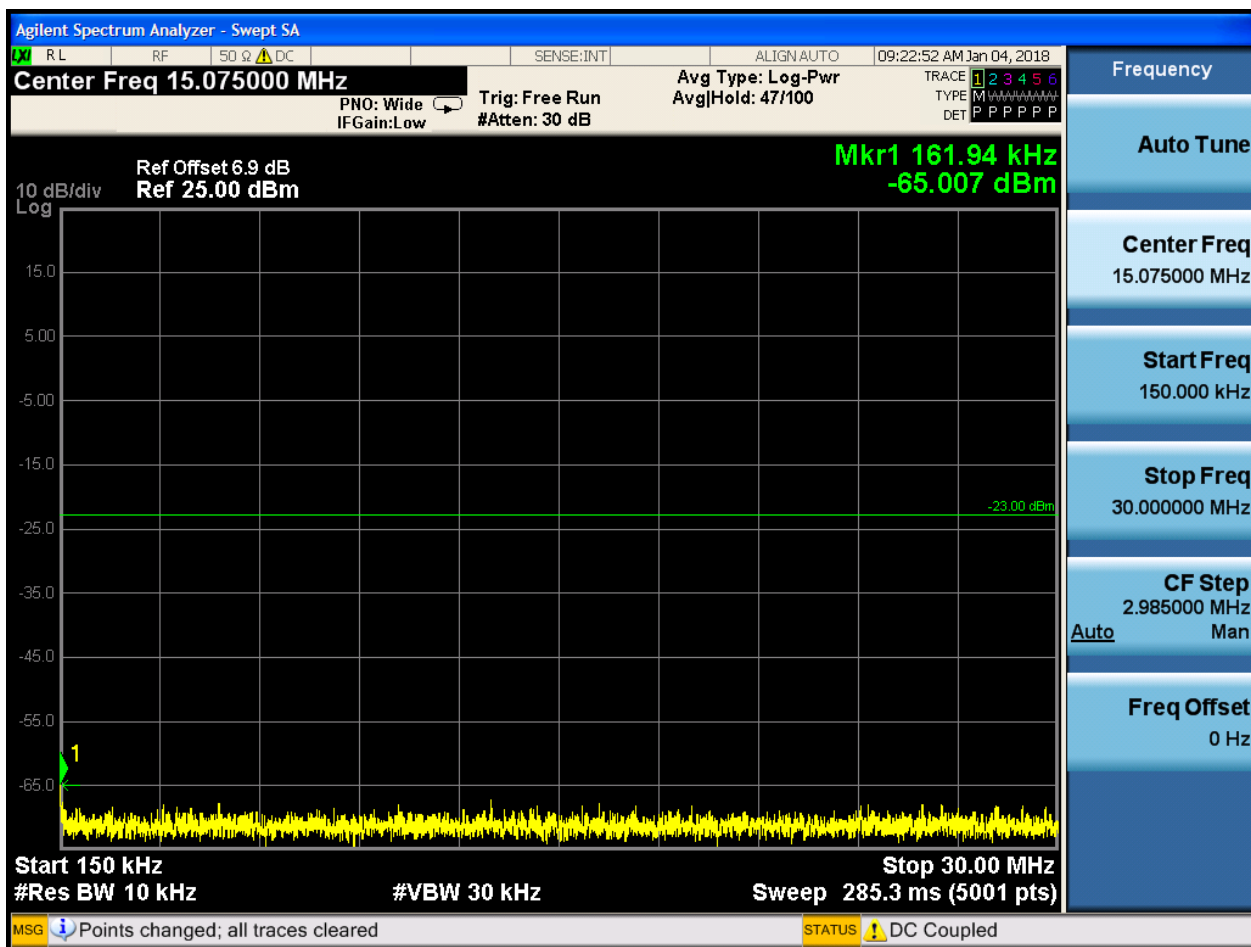


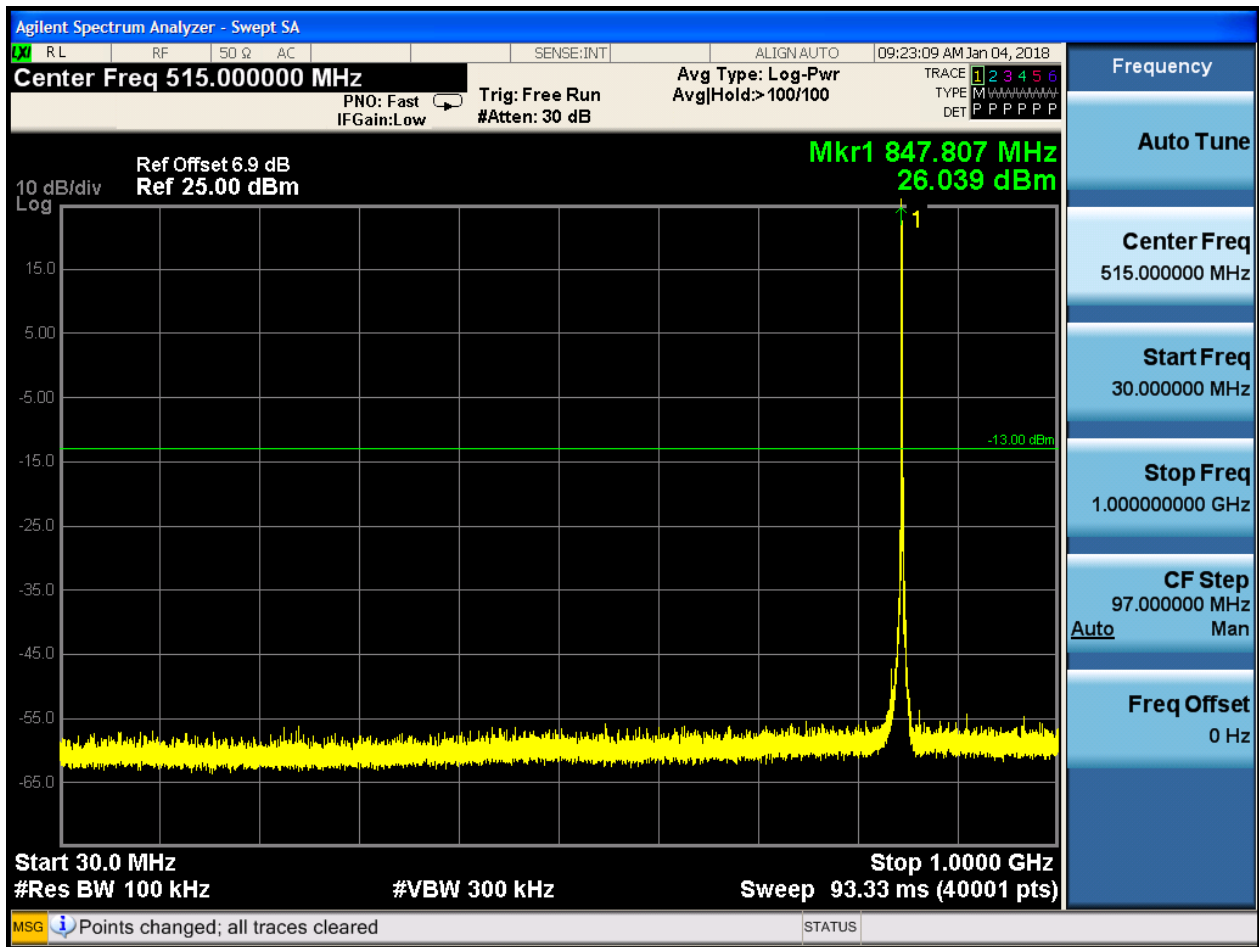


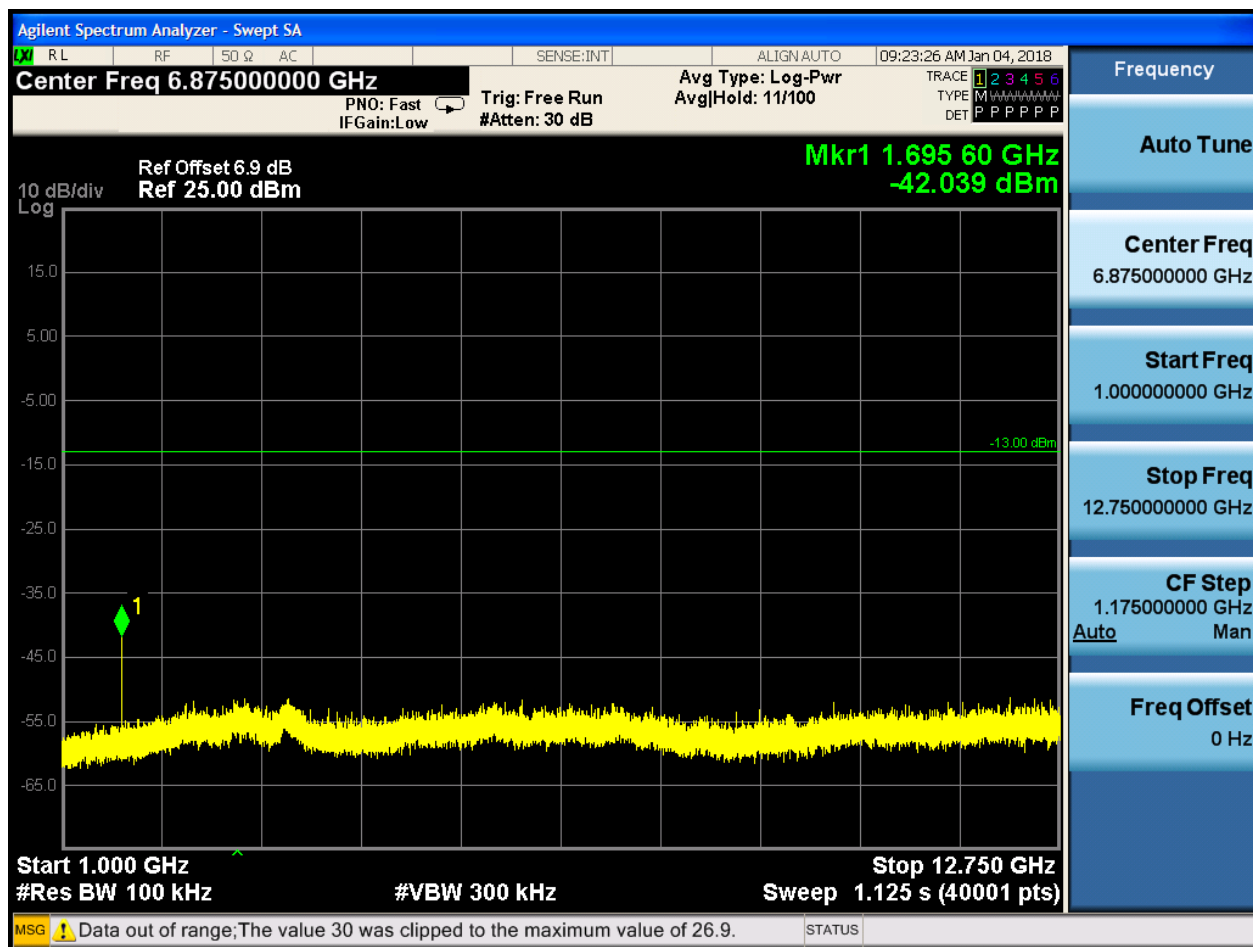
6.1.1.1.3 Test Channel = HCH

6.1.1.1.3.1 Test RB = RB1#0







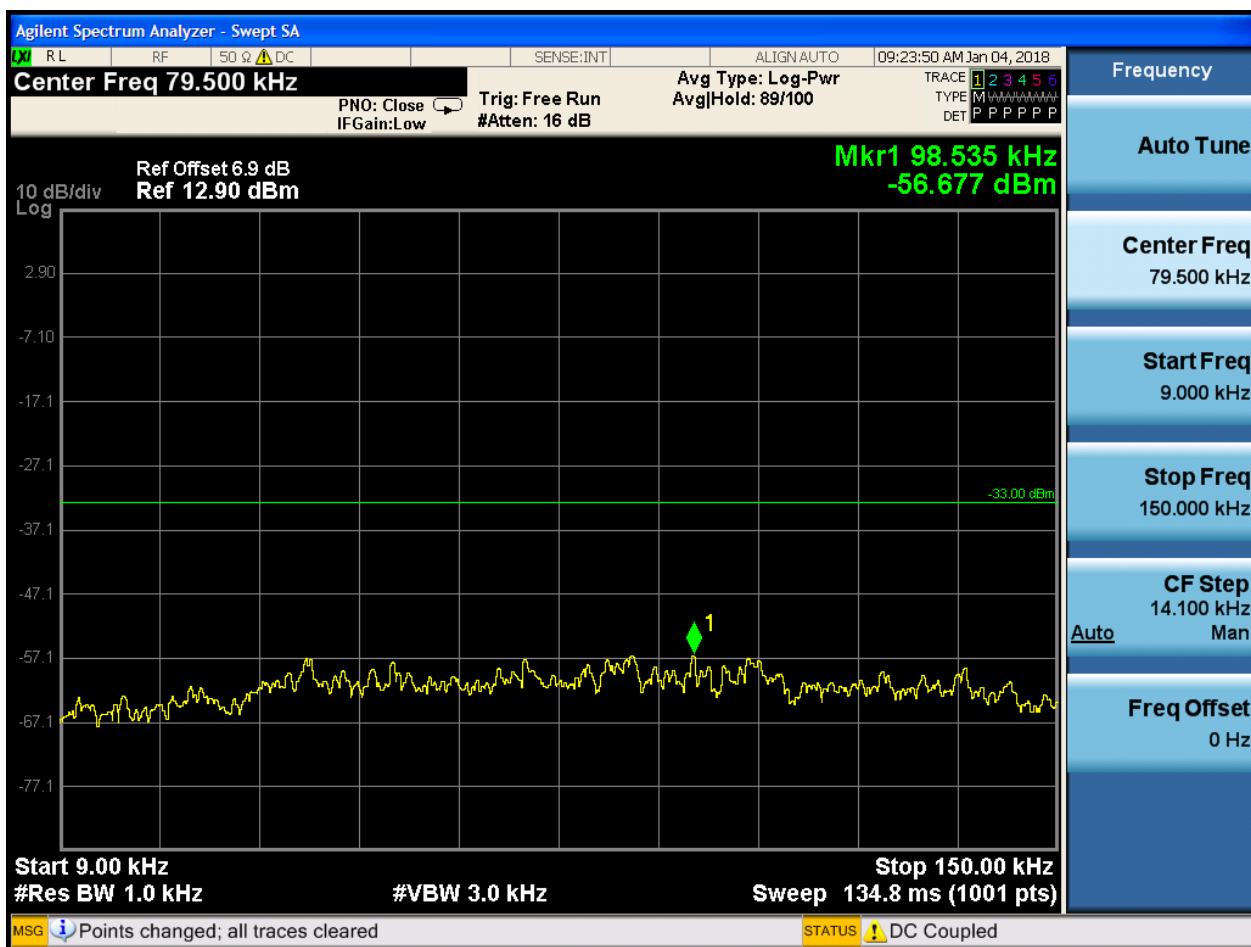


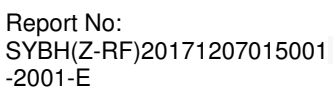


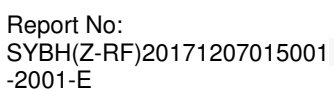
6.1.1.1.2 Test Bandwidth = 3

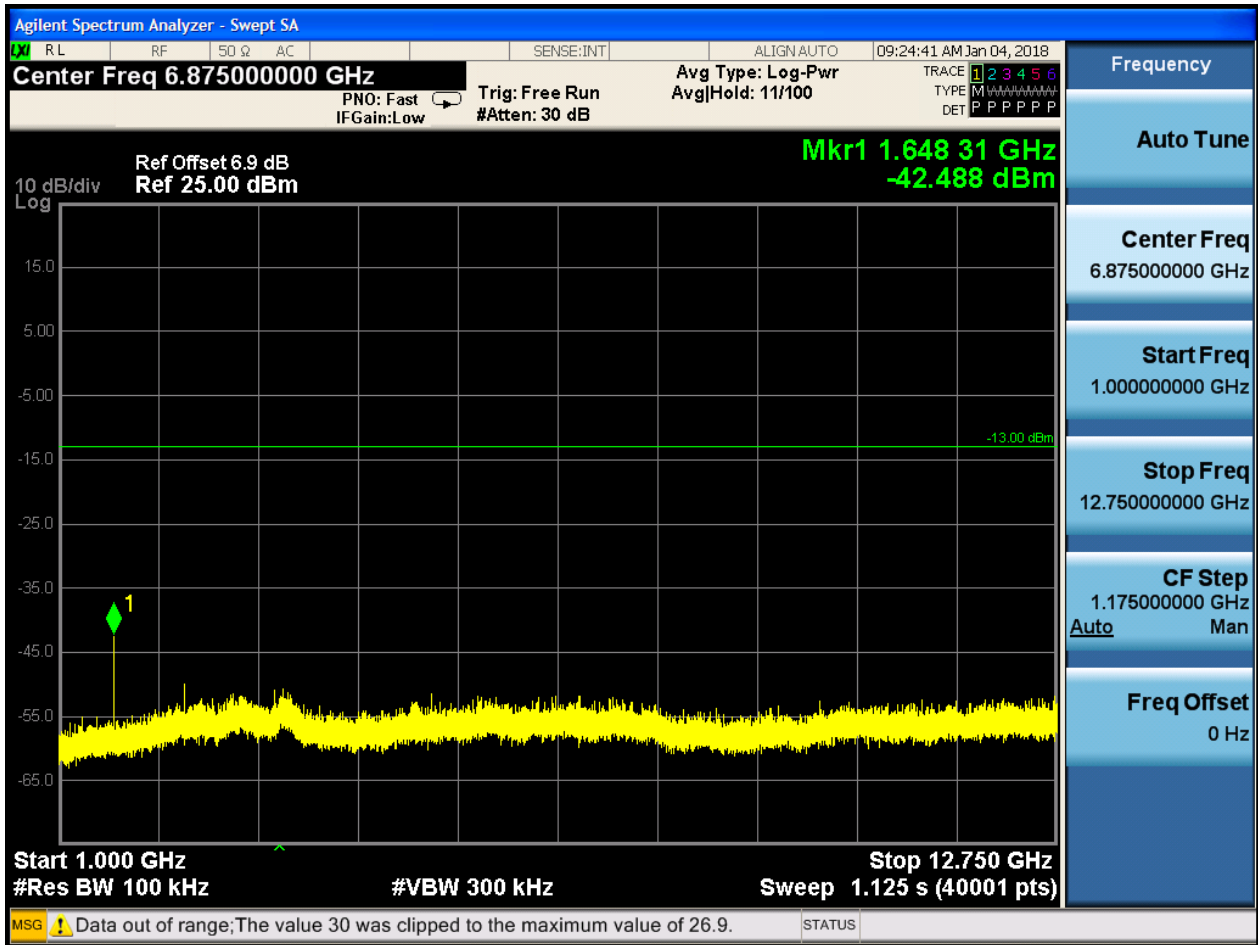
6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0





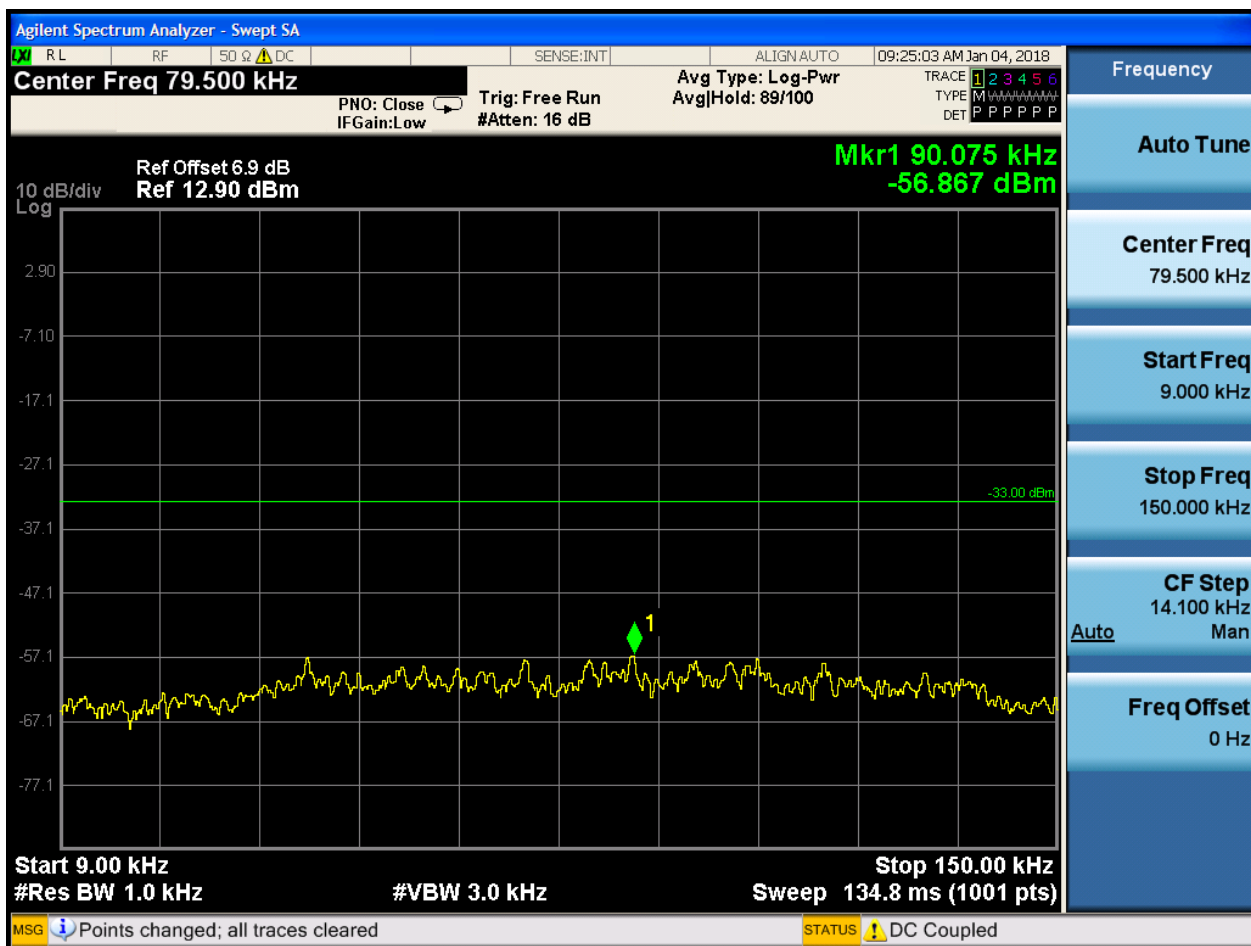


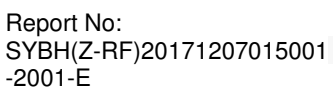


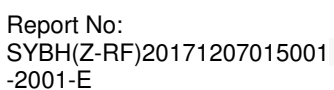


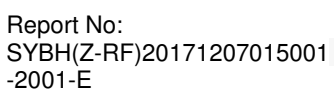
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0





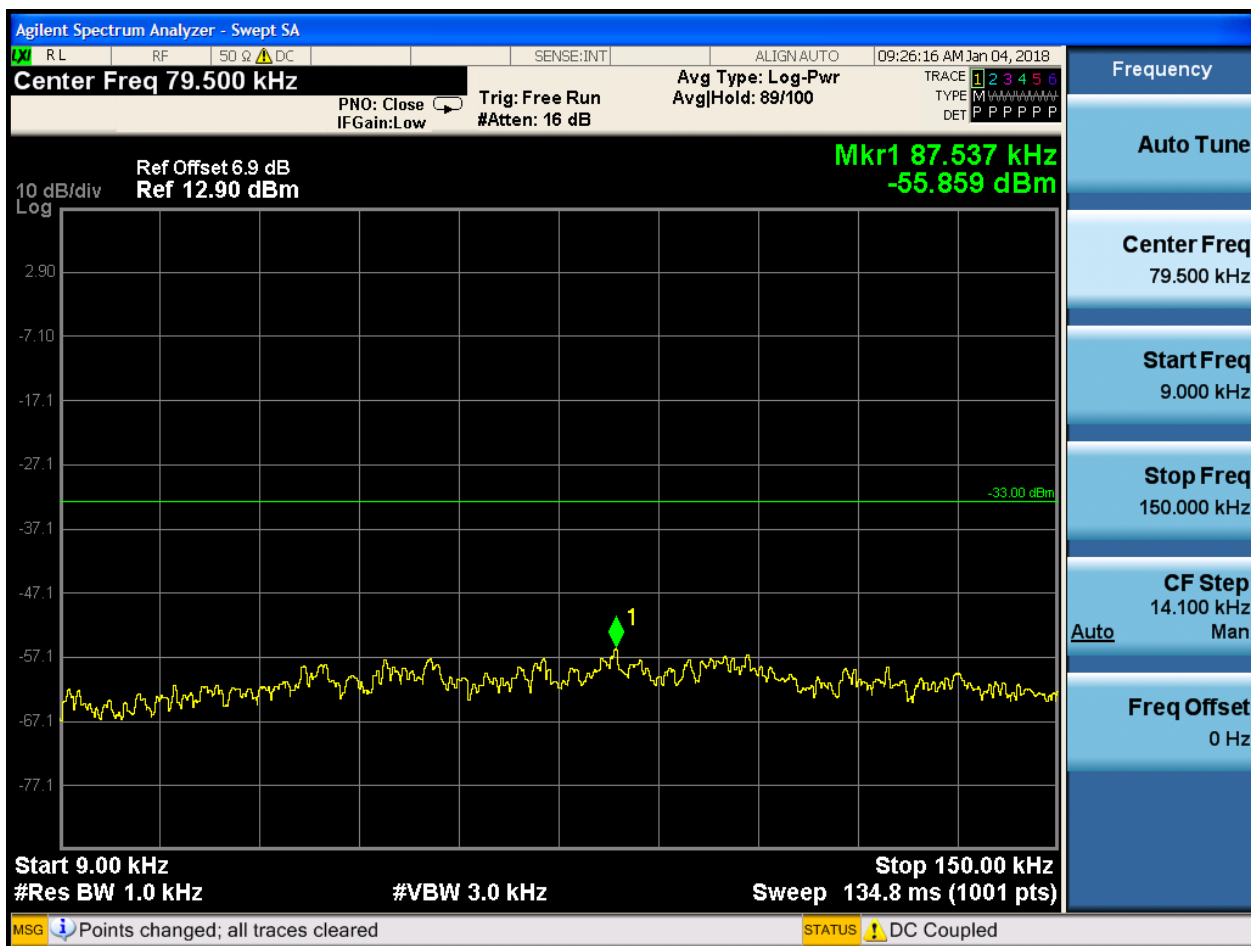


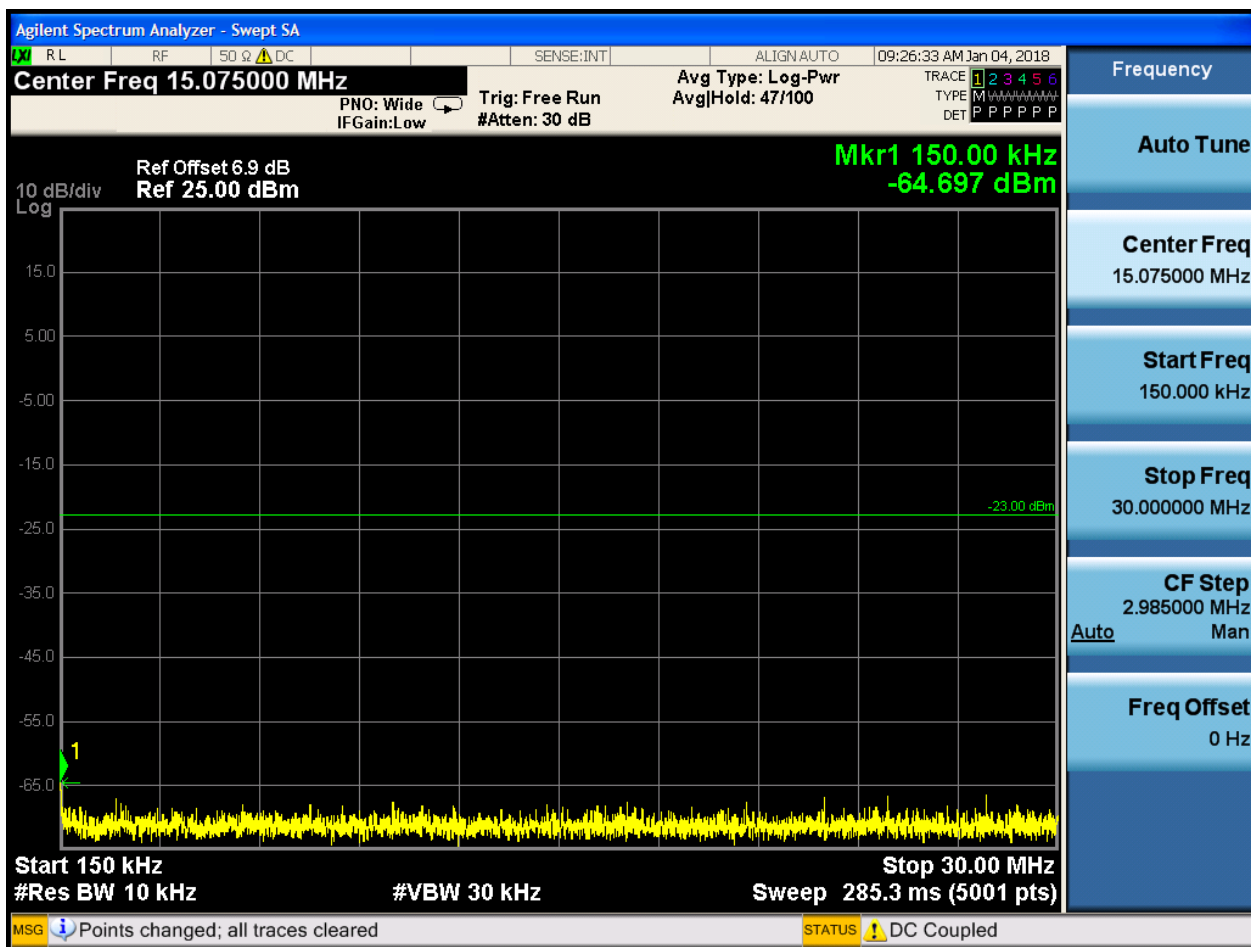


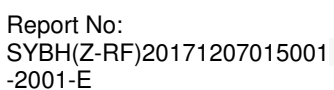


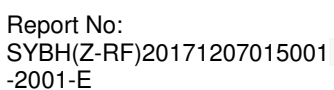
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0







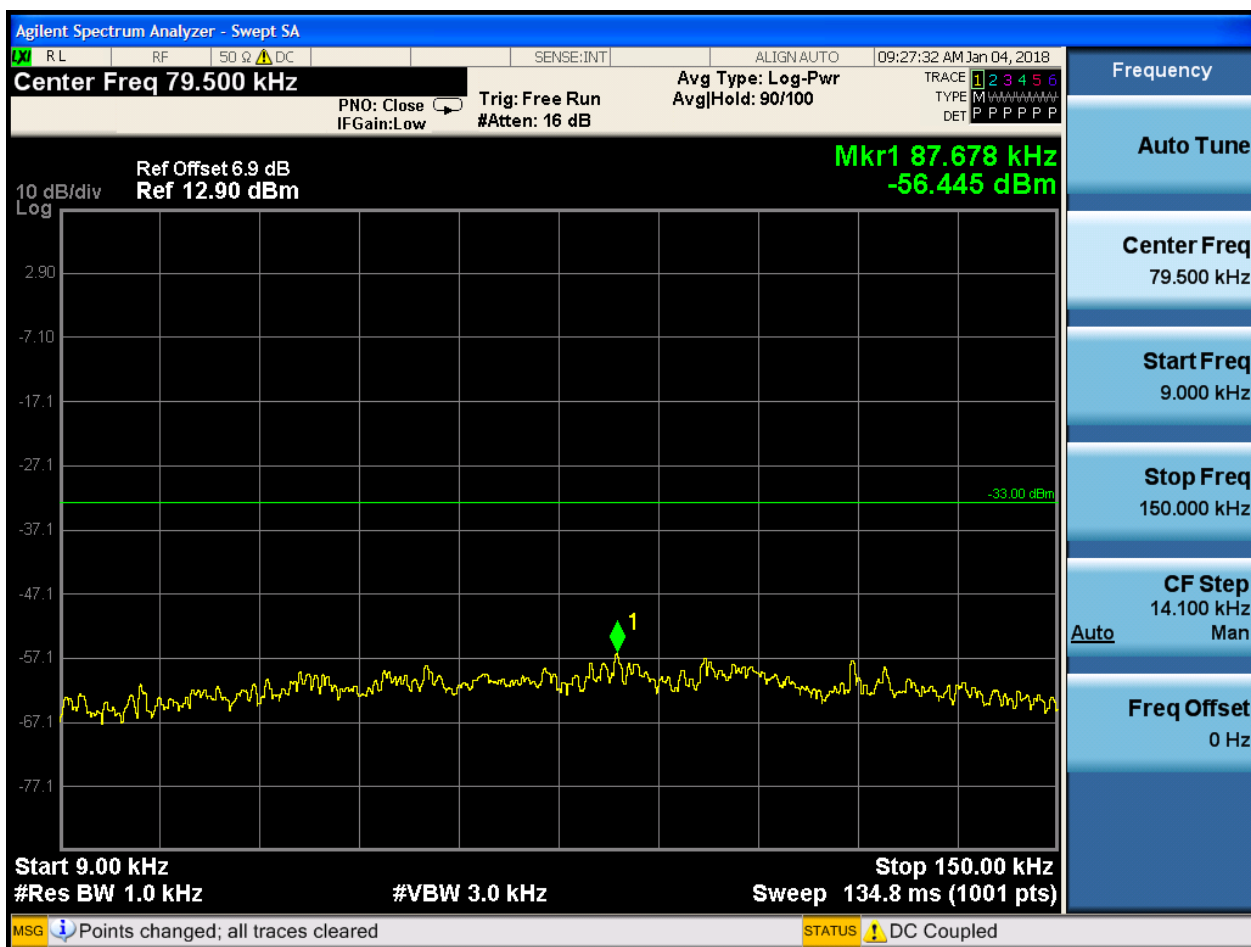




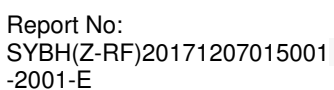
6.1.1.1.3 Test Bandwidth = 5

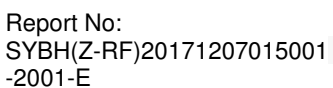
6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0







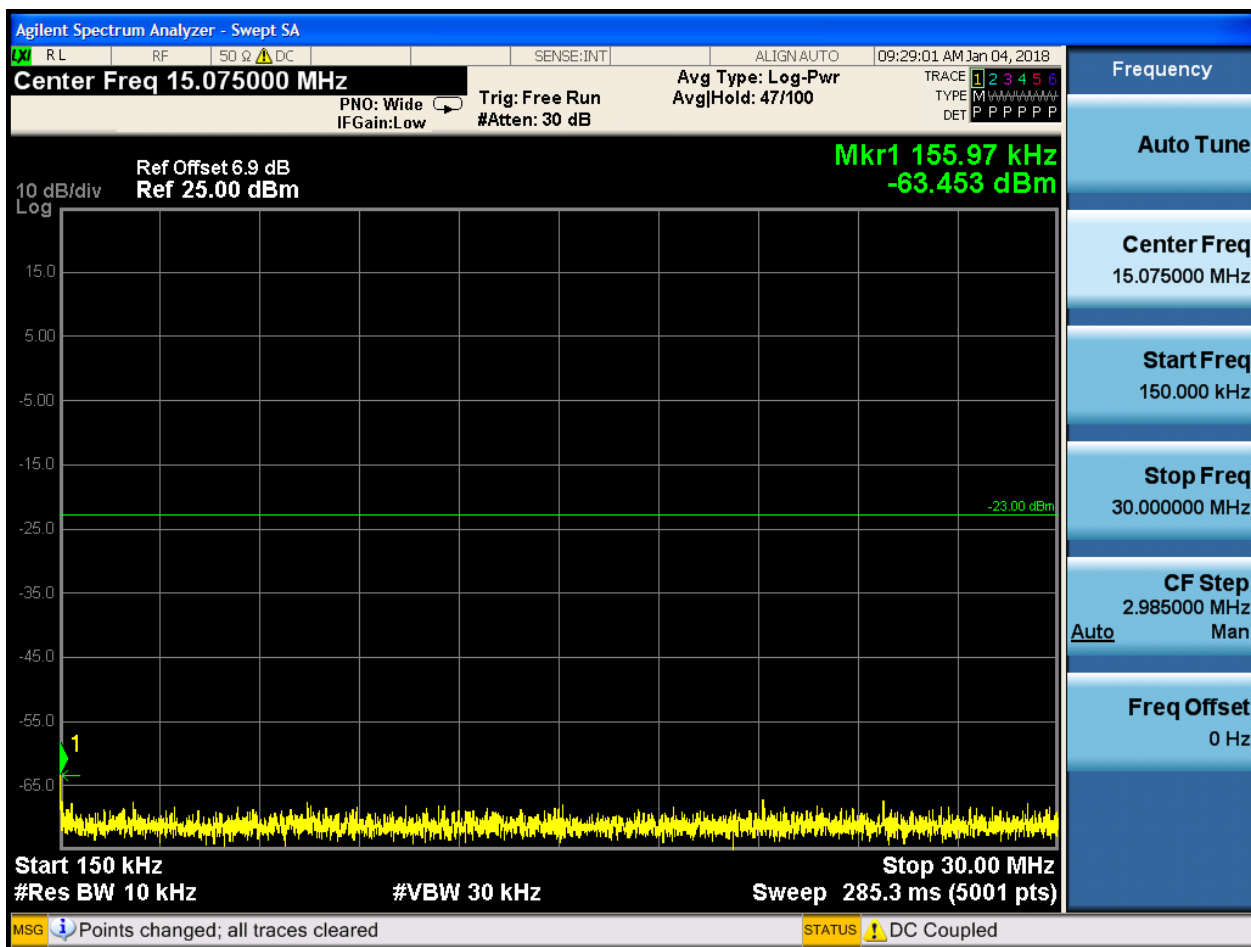


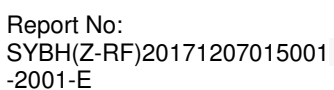


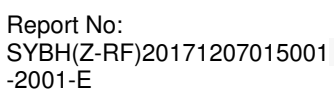
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0





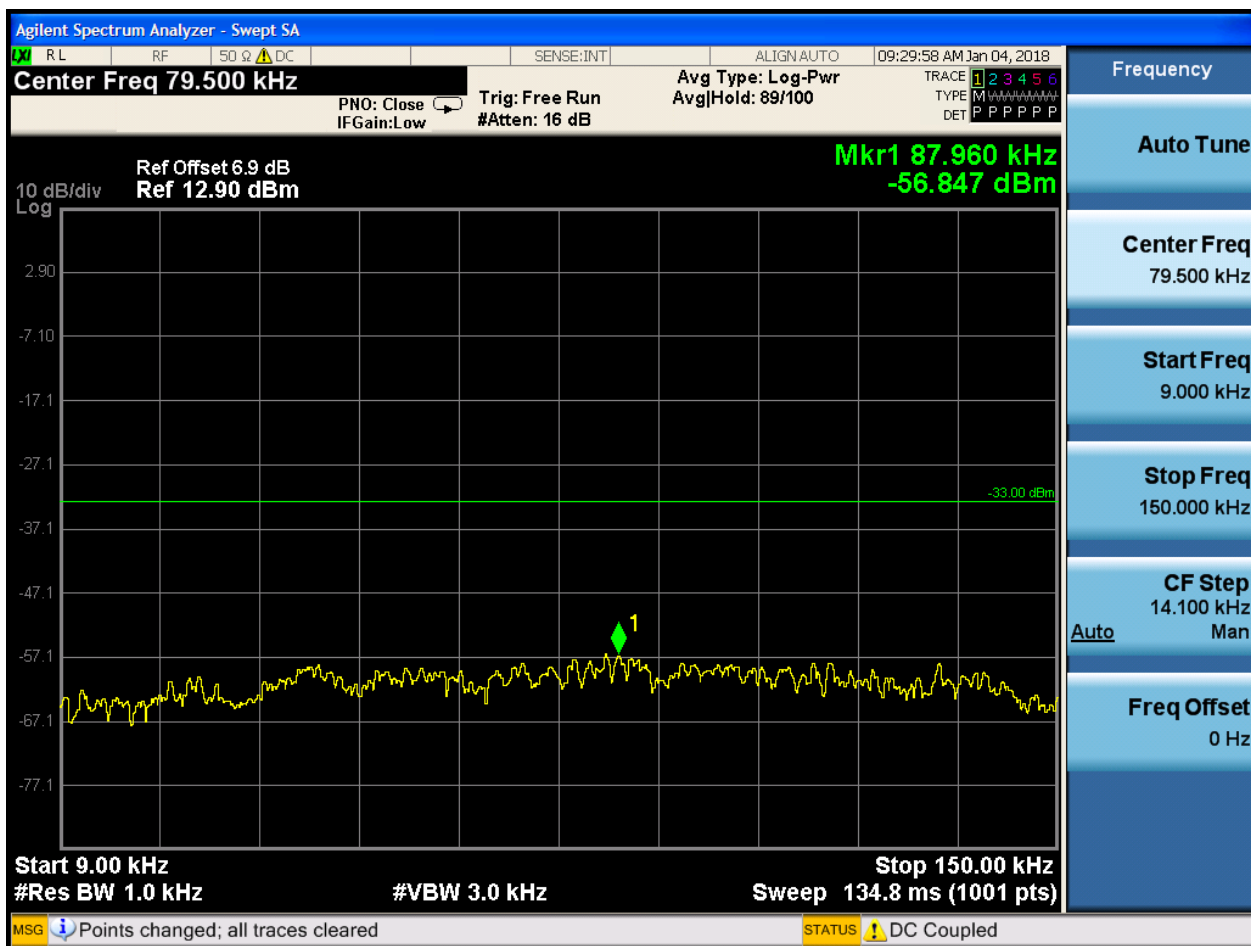




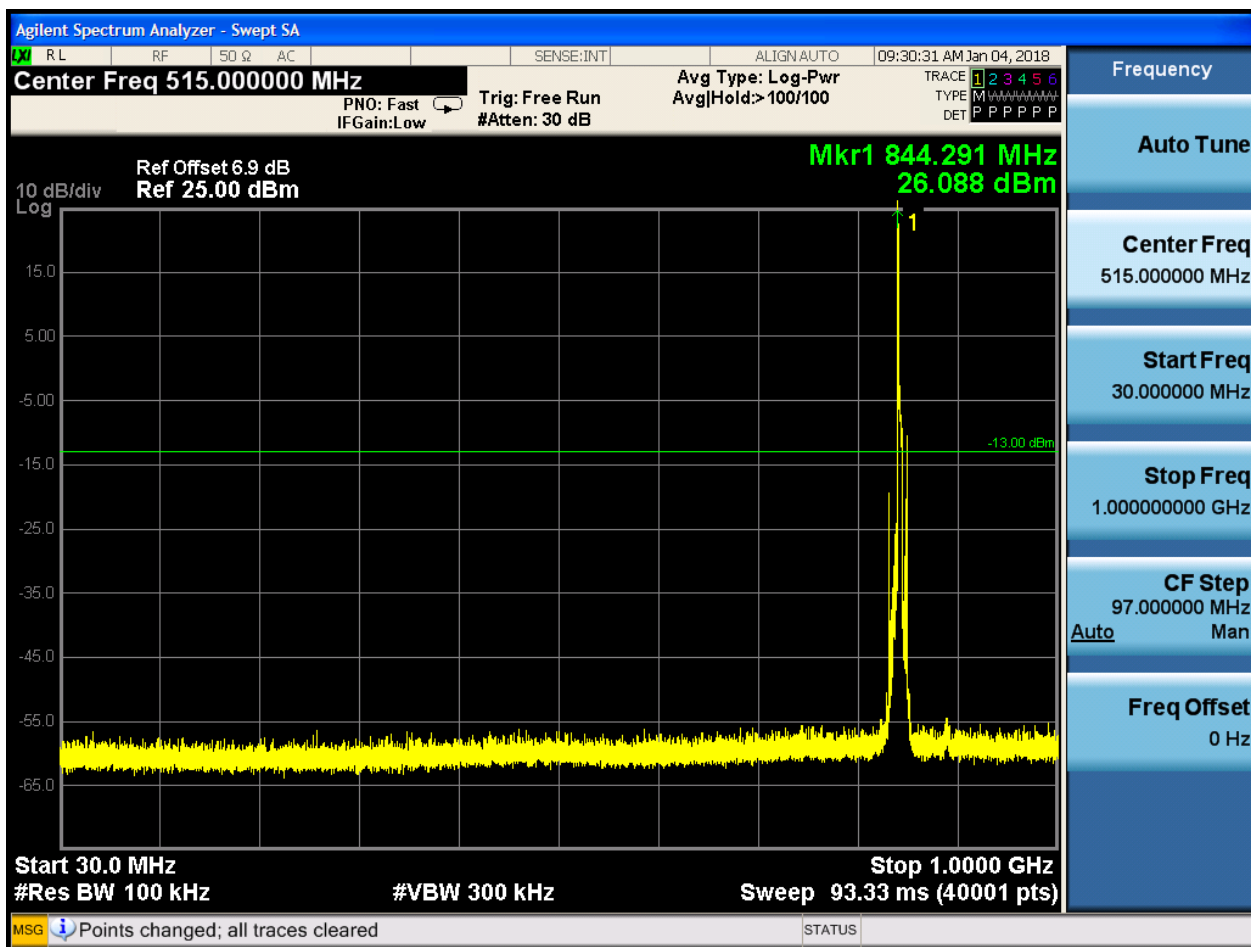


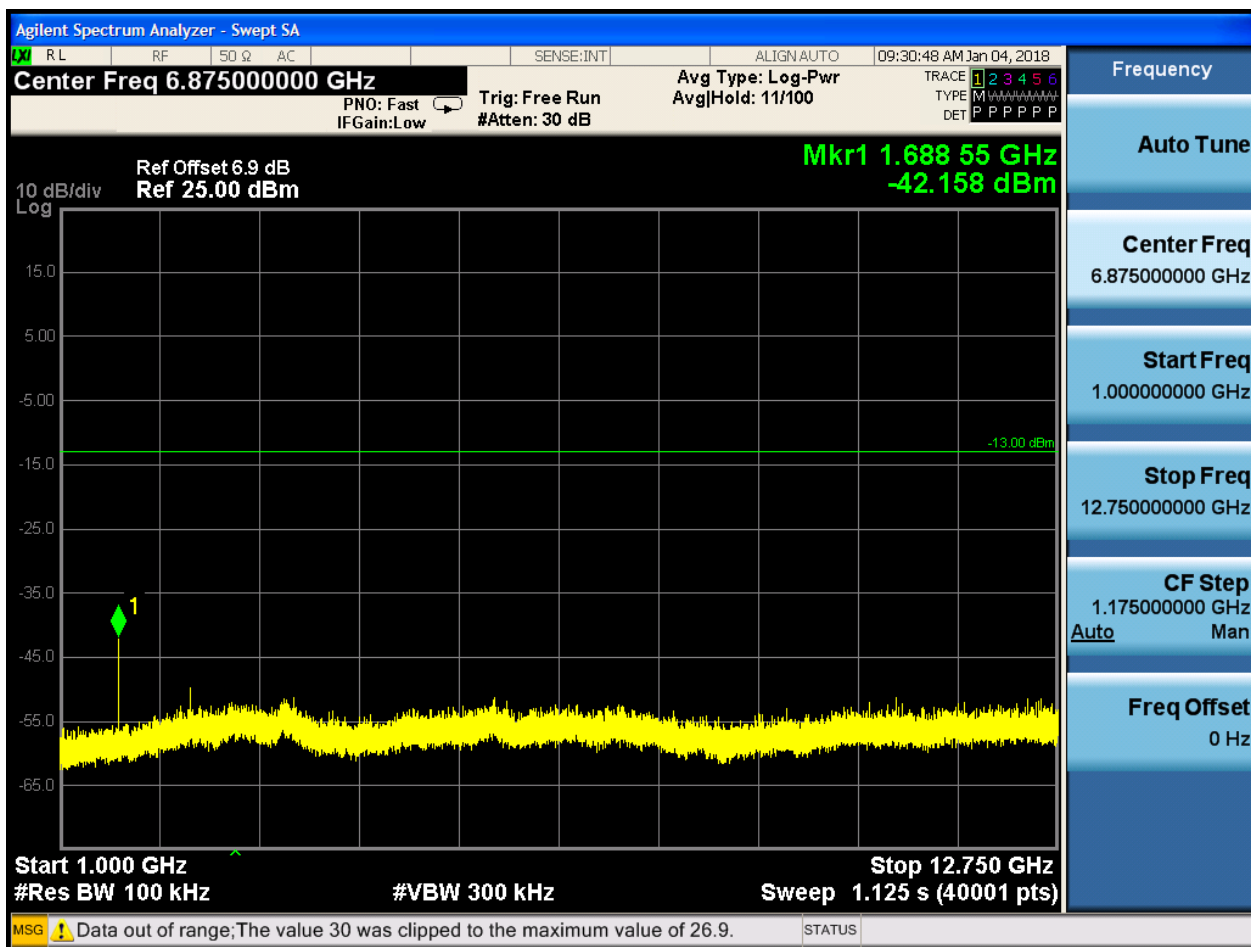
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0





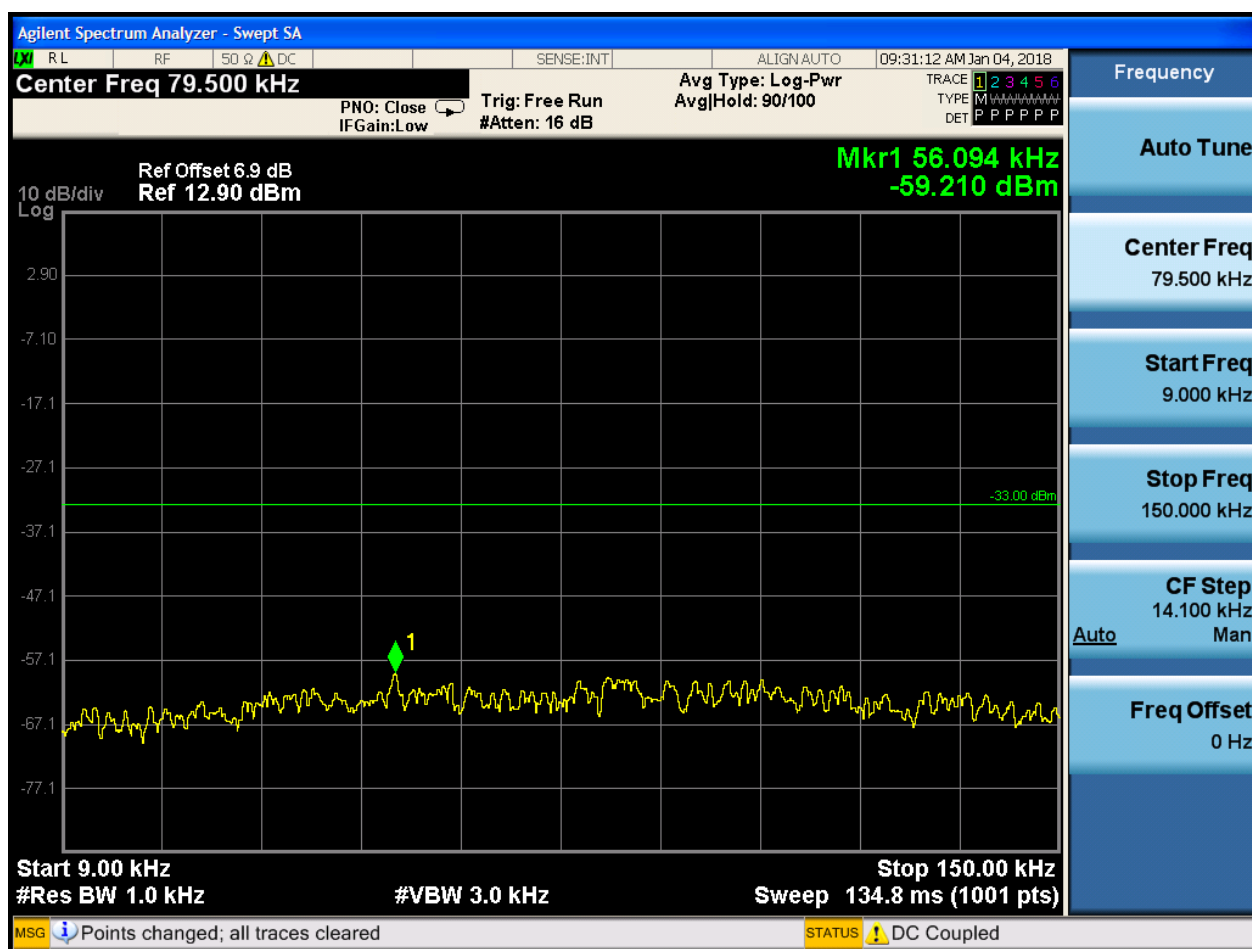




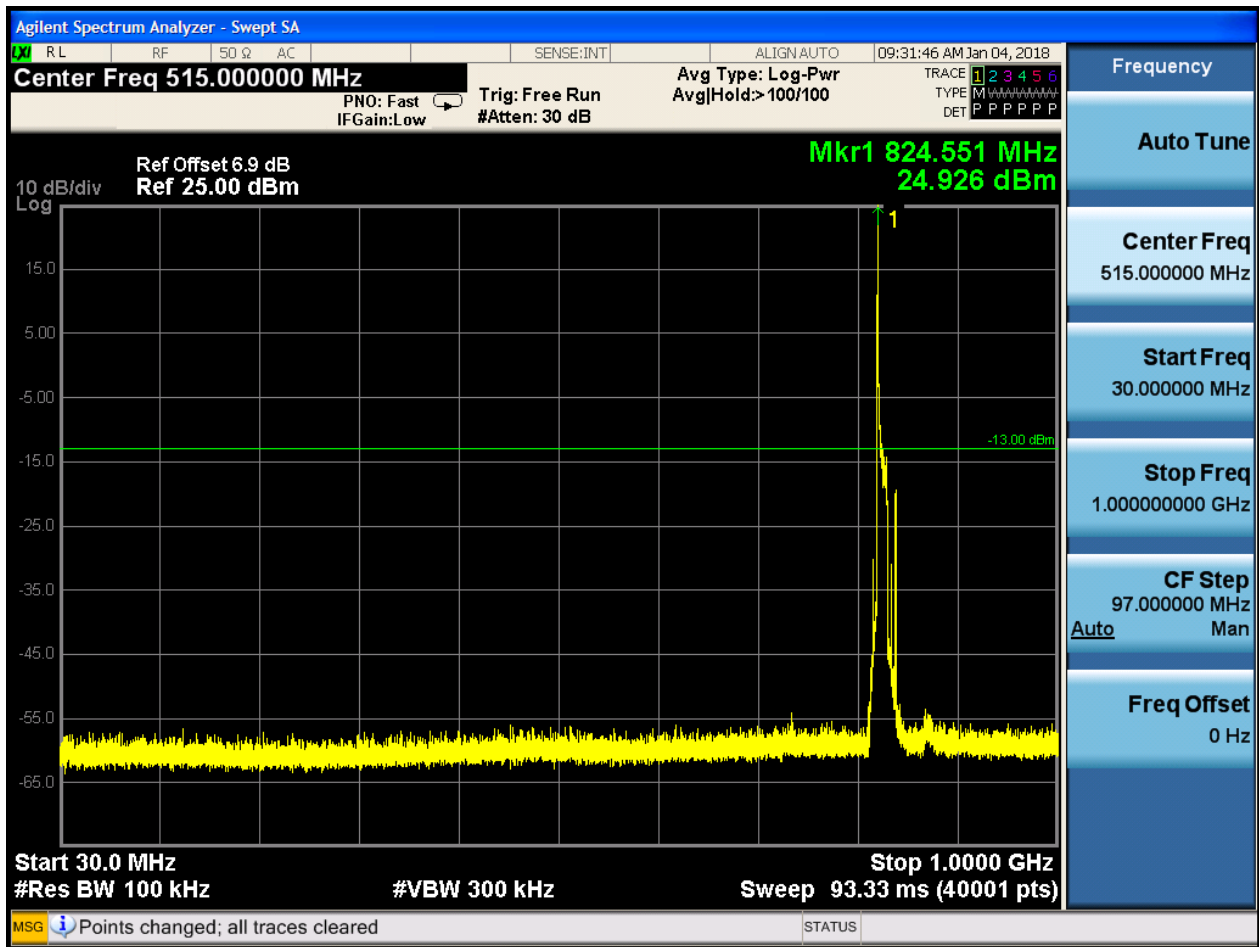
6.1.1.1.4 Test Bandwidth = 10

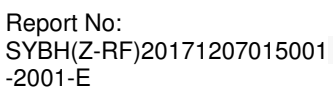
6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0





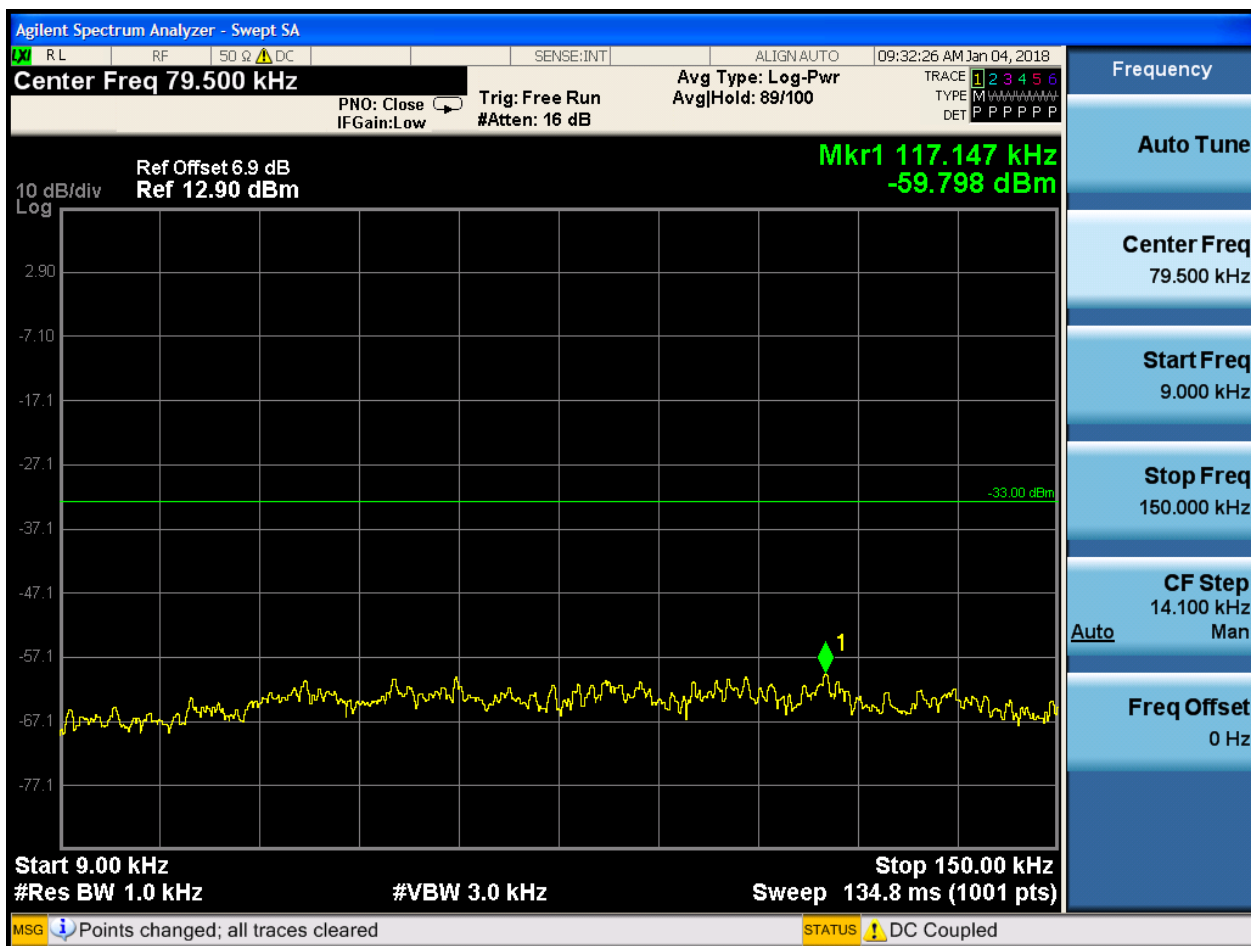


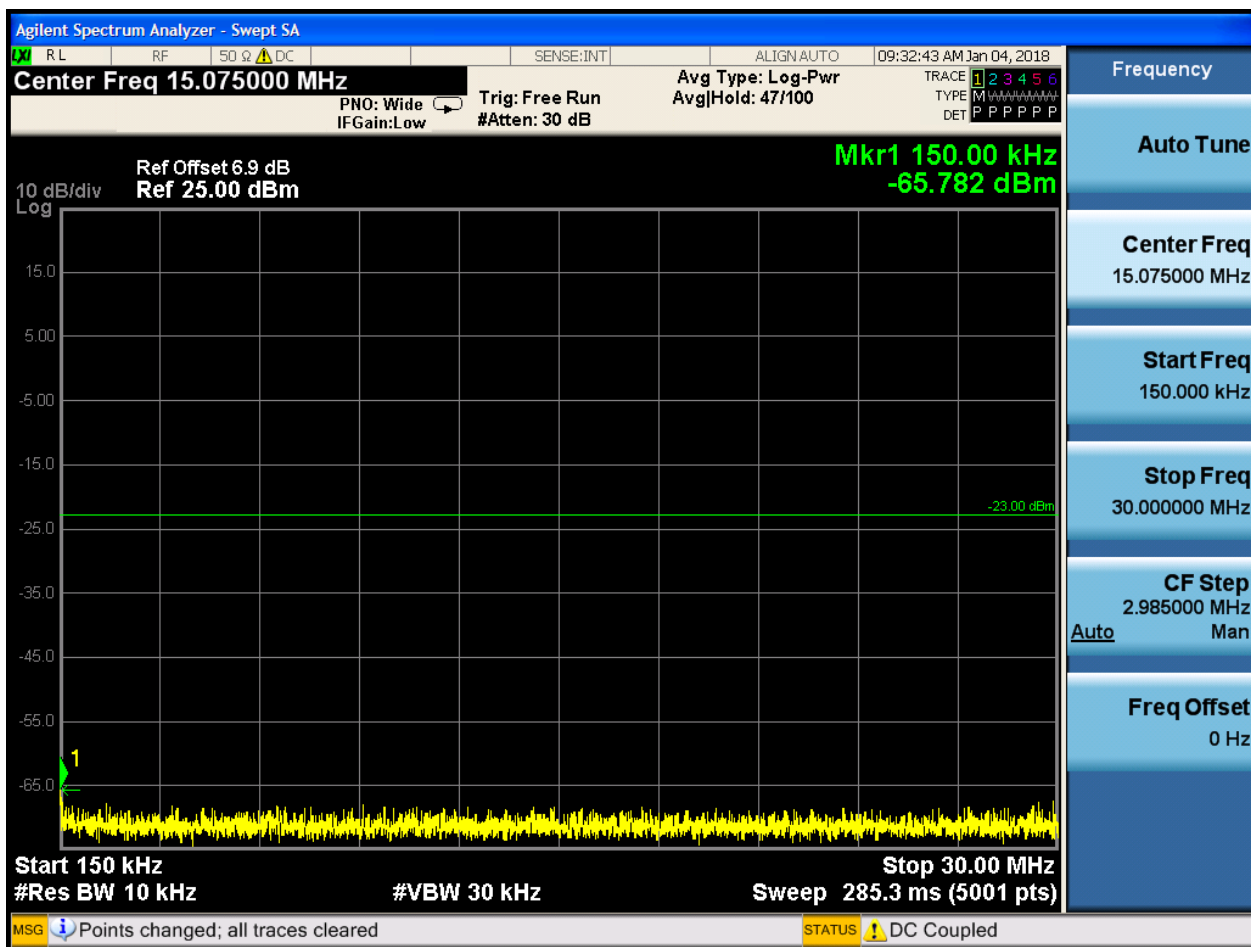


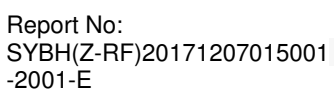


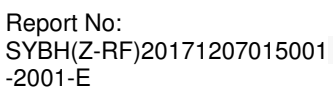
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0





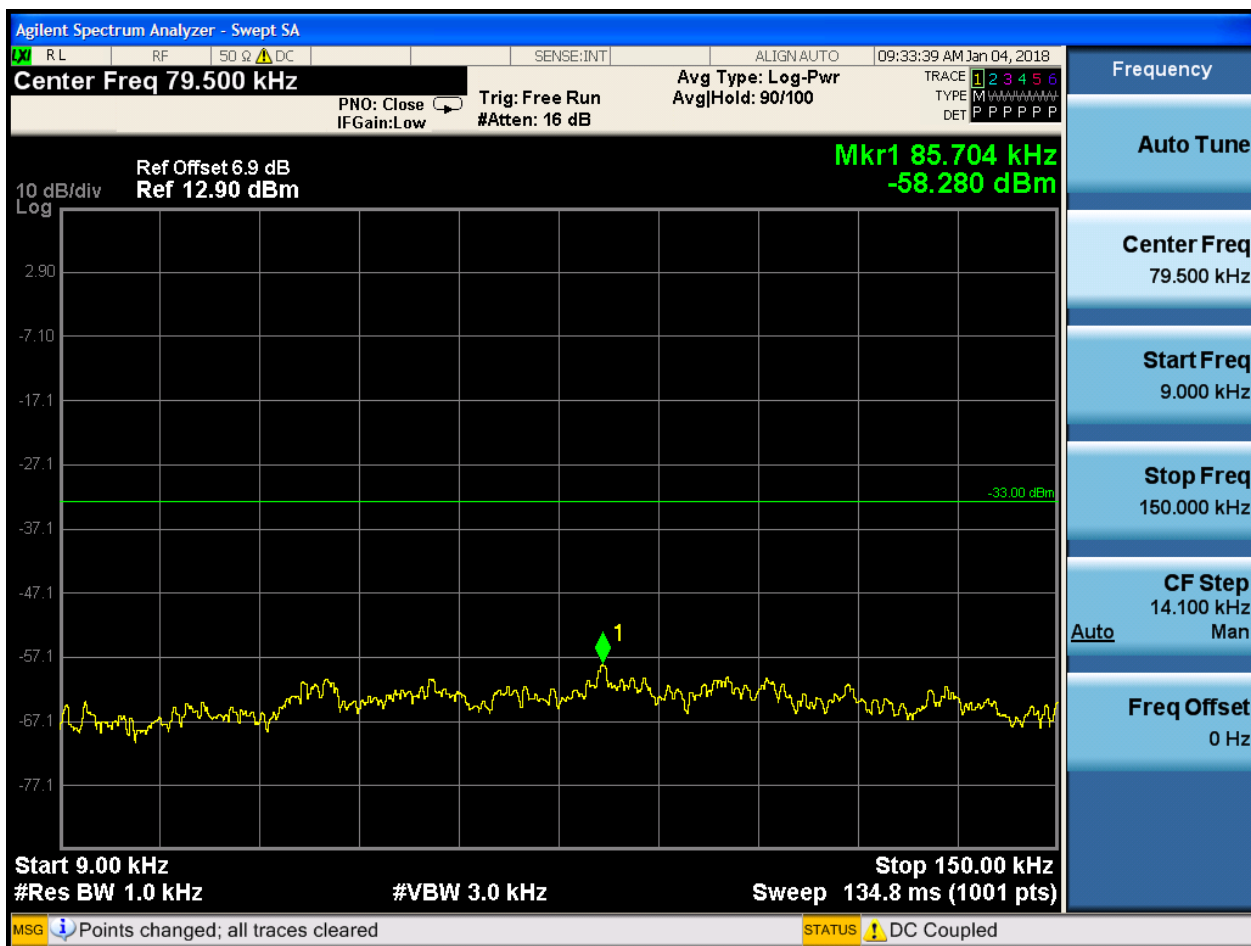




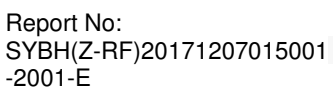


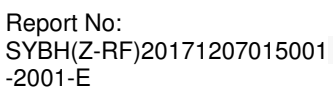
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0









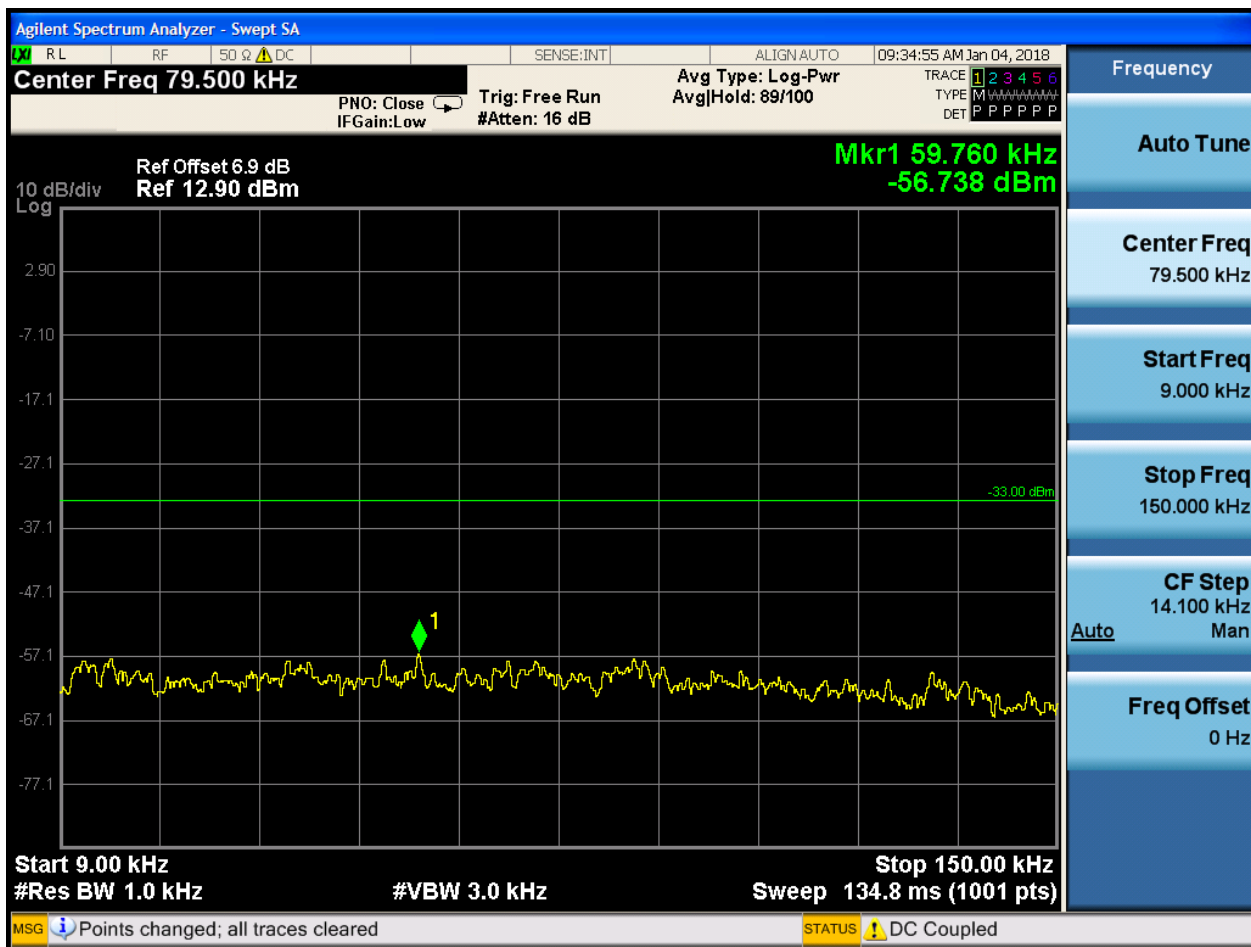


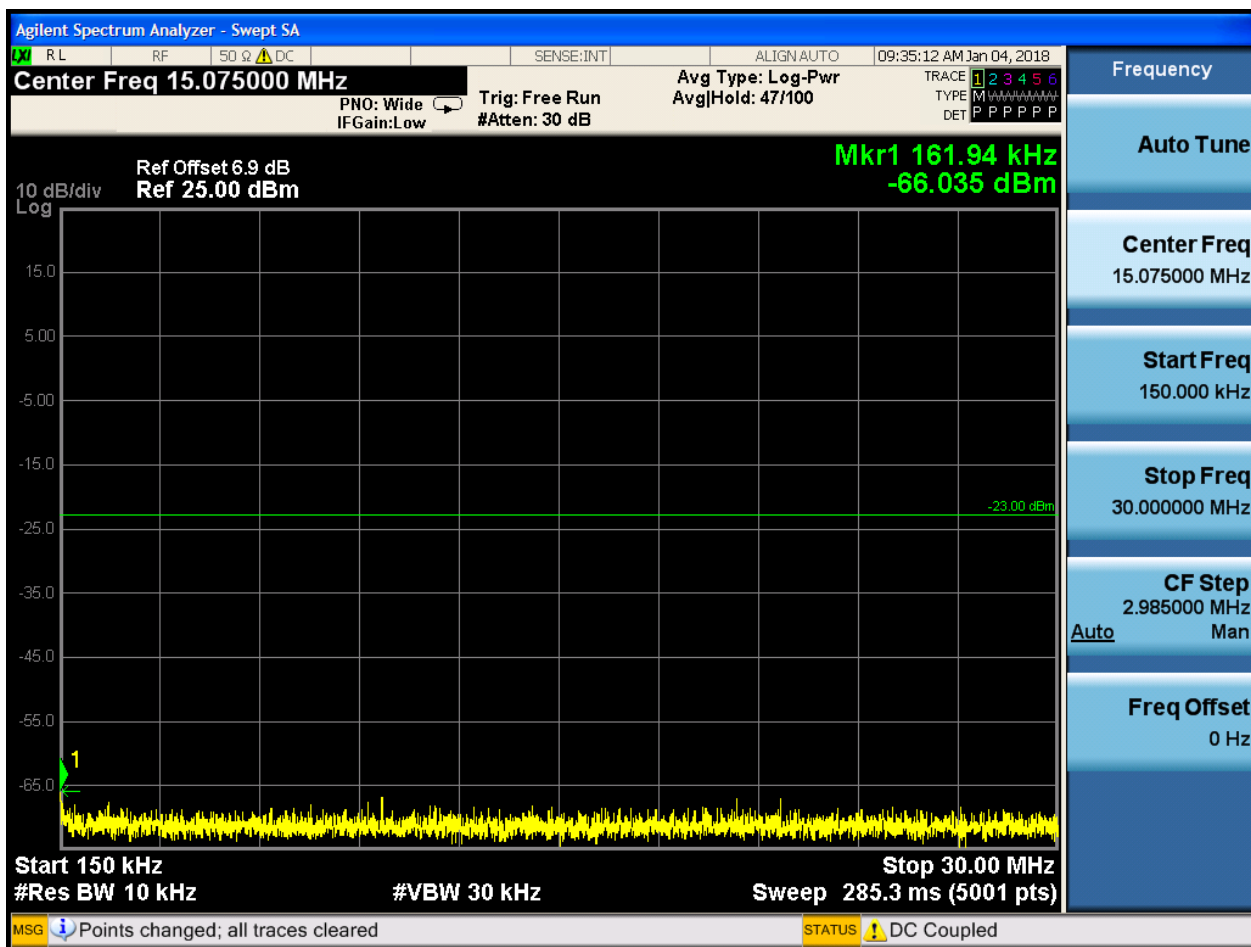
6.1.1.2 Test Mode = LTE/TM2

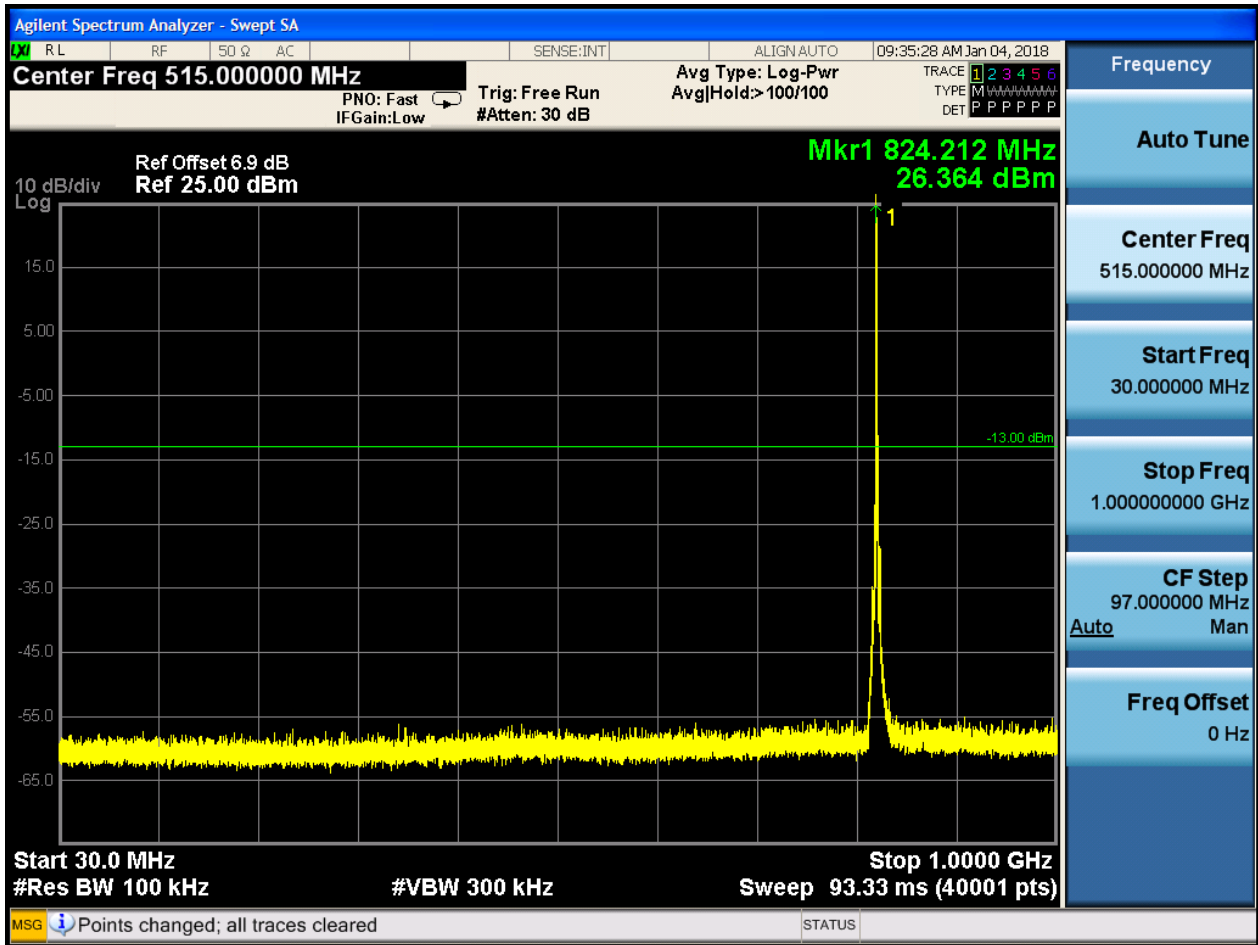
6.1.1.2.1 Test Bandwidth = 1.4

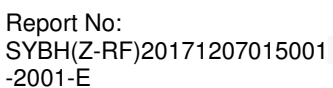
6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



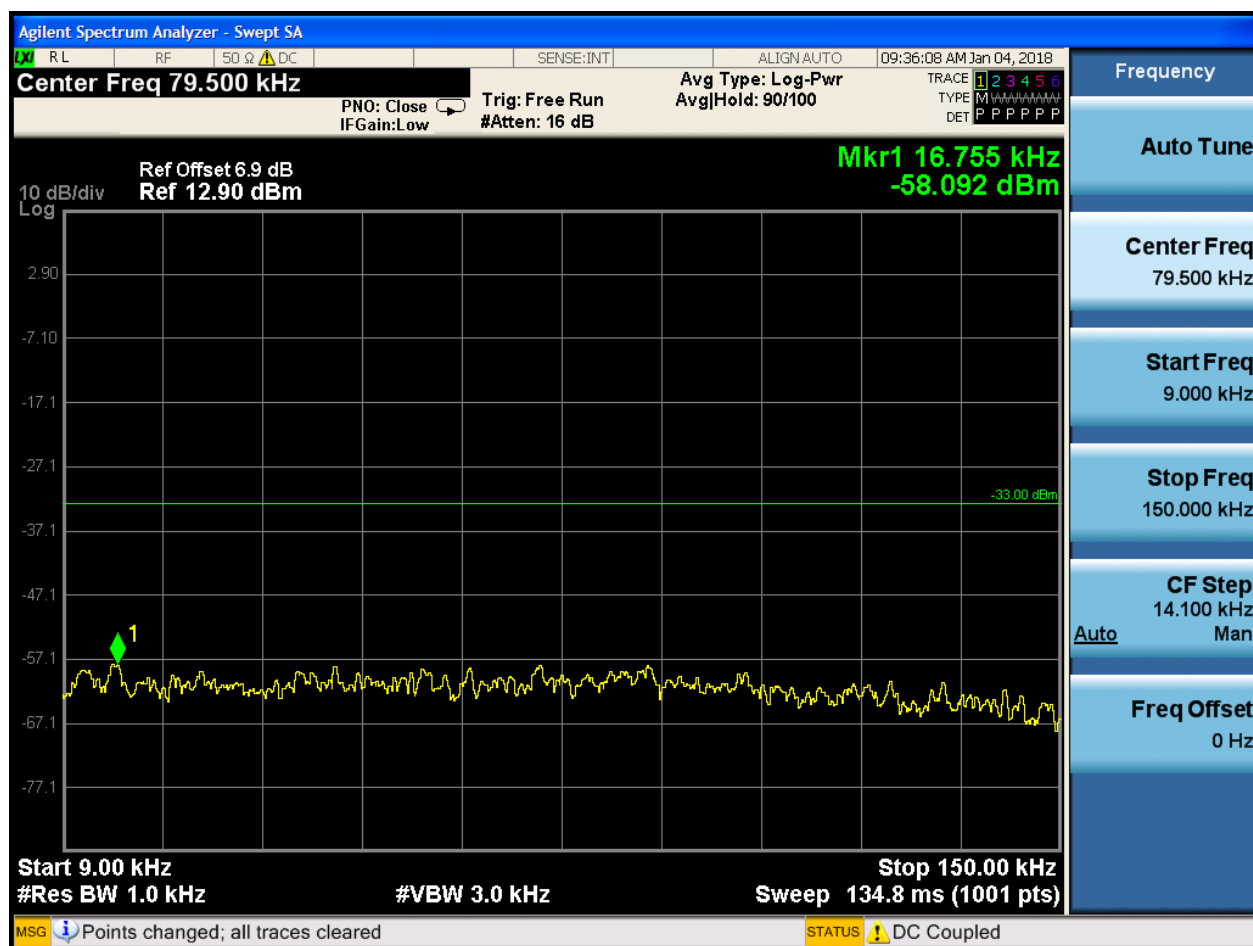


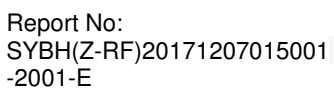


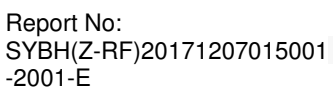


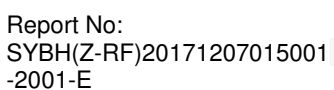
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0





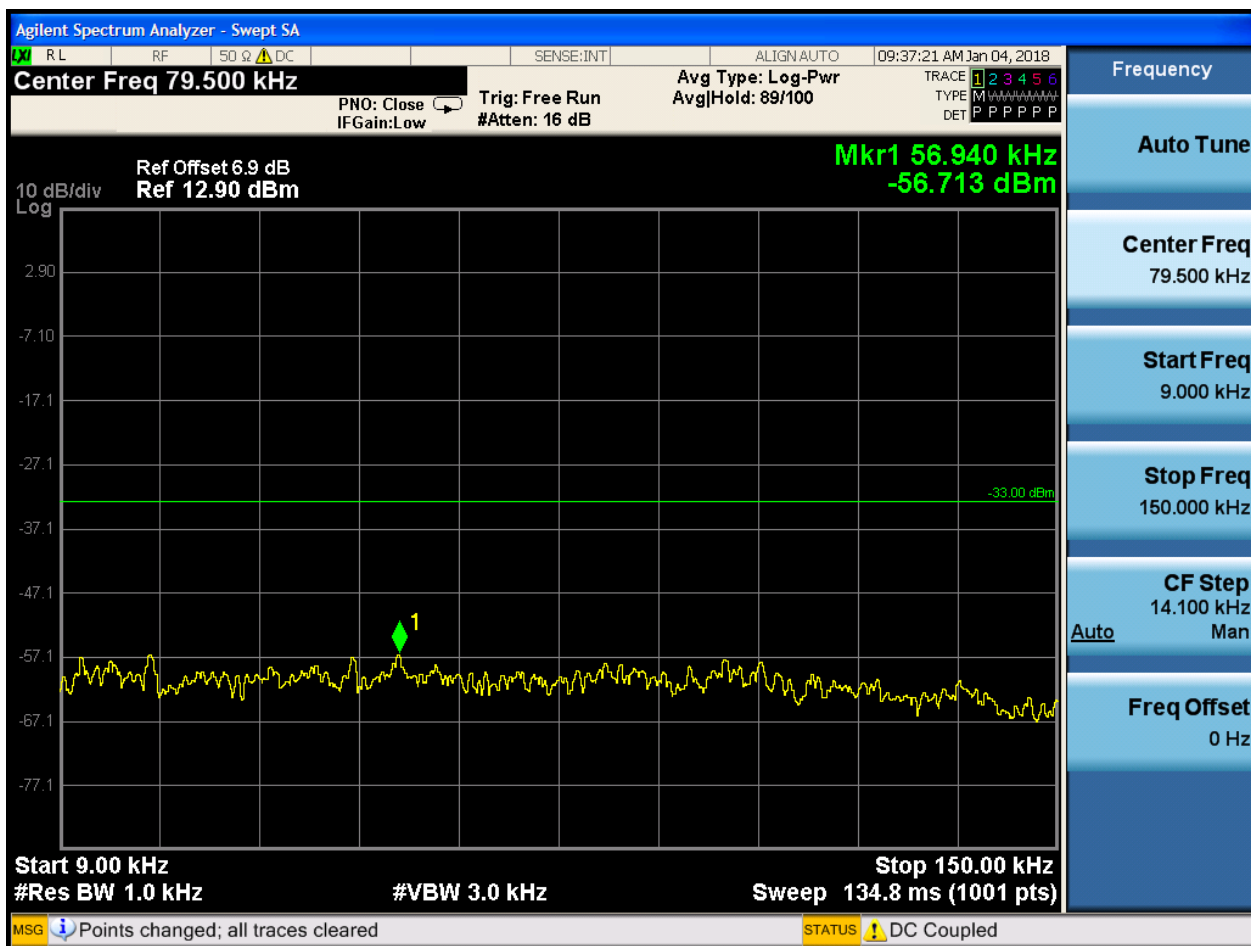




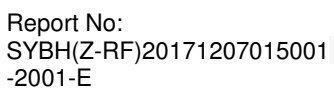


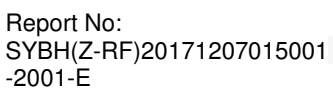
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0







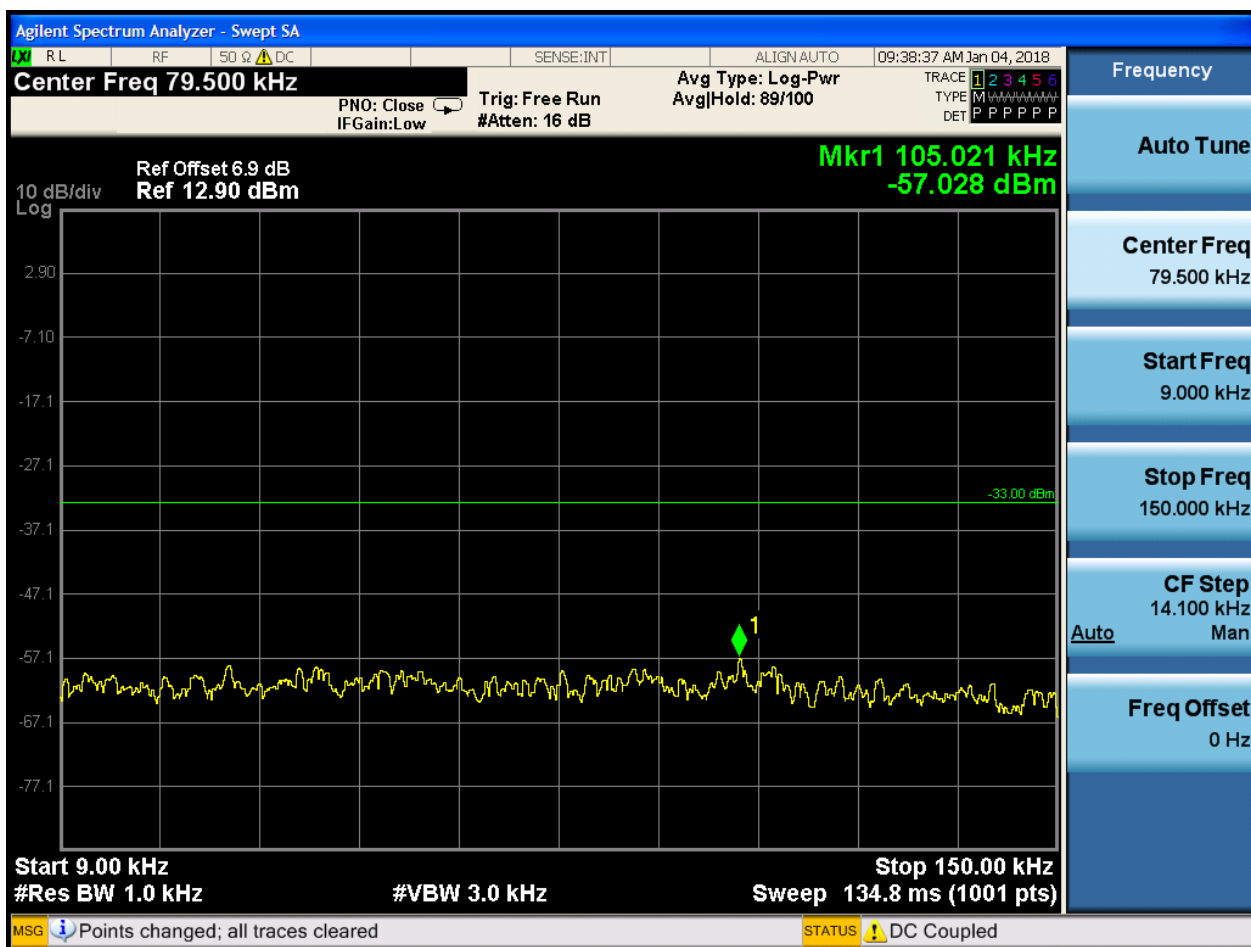


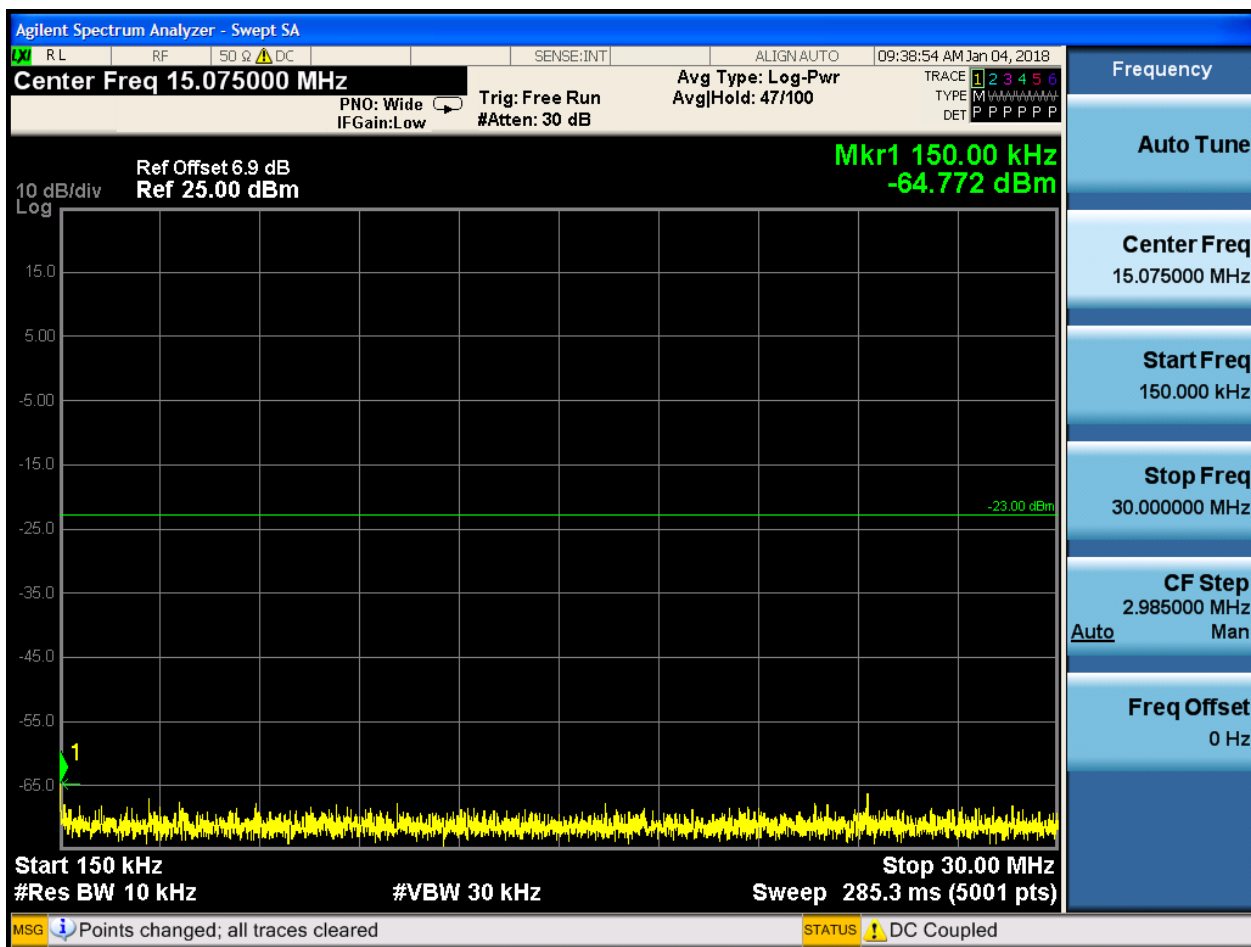


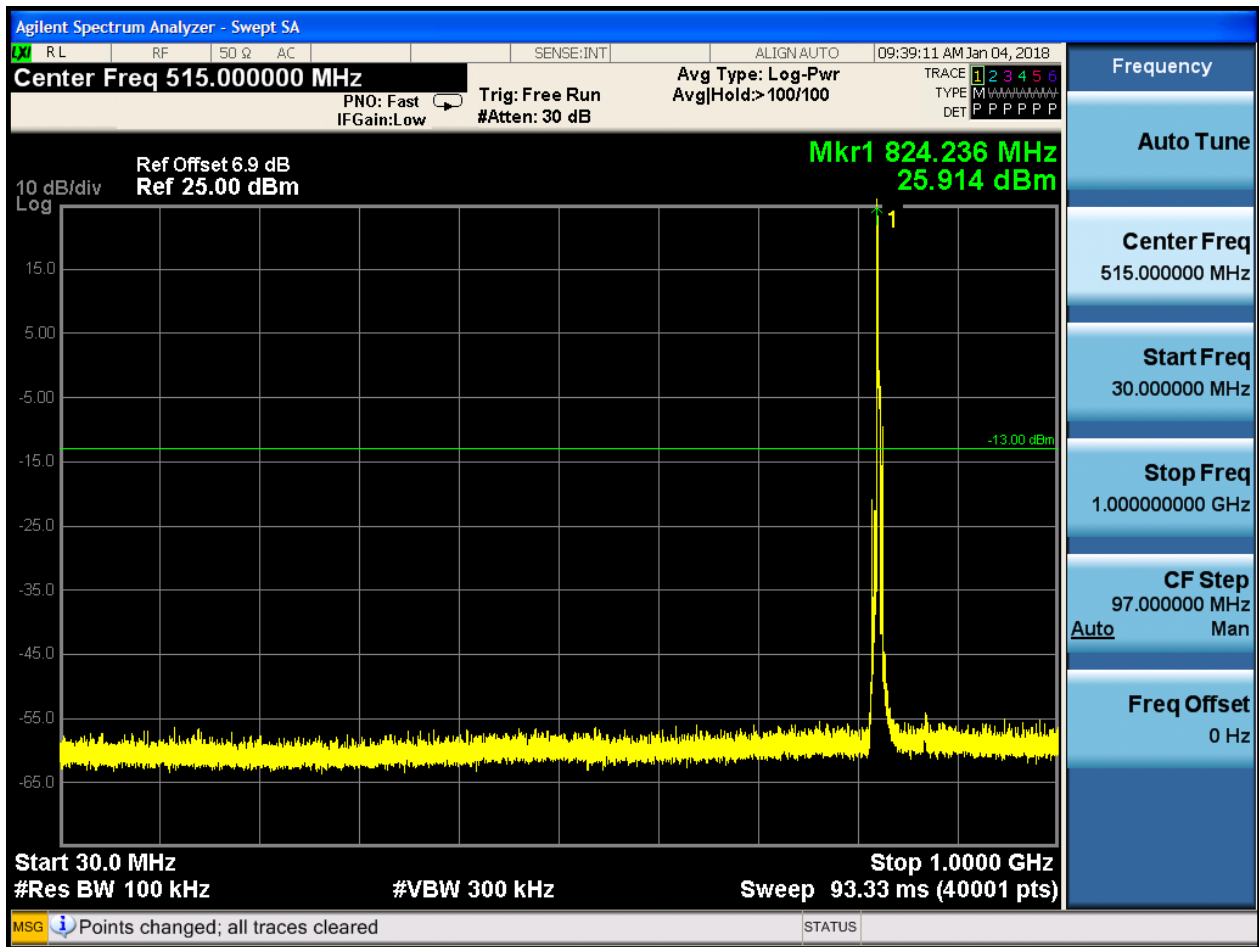
6.1.1.2.2 Test Bandwidth = 3

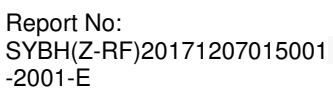
6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



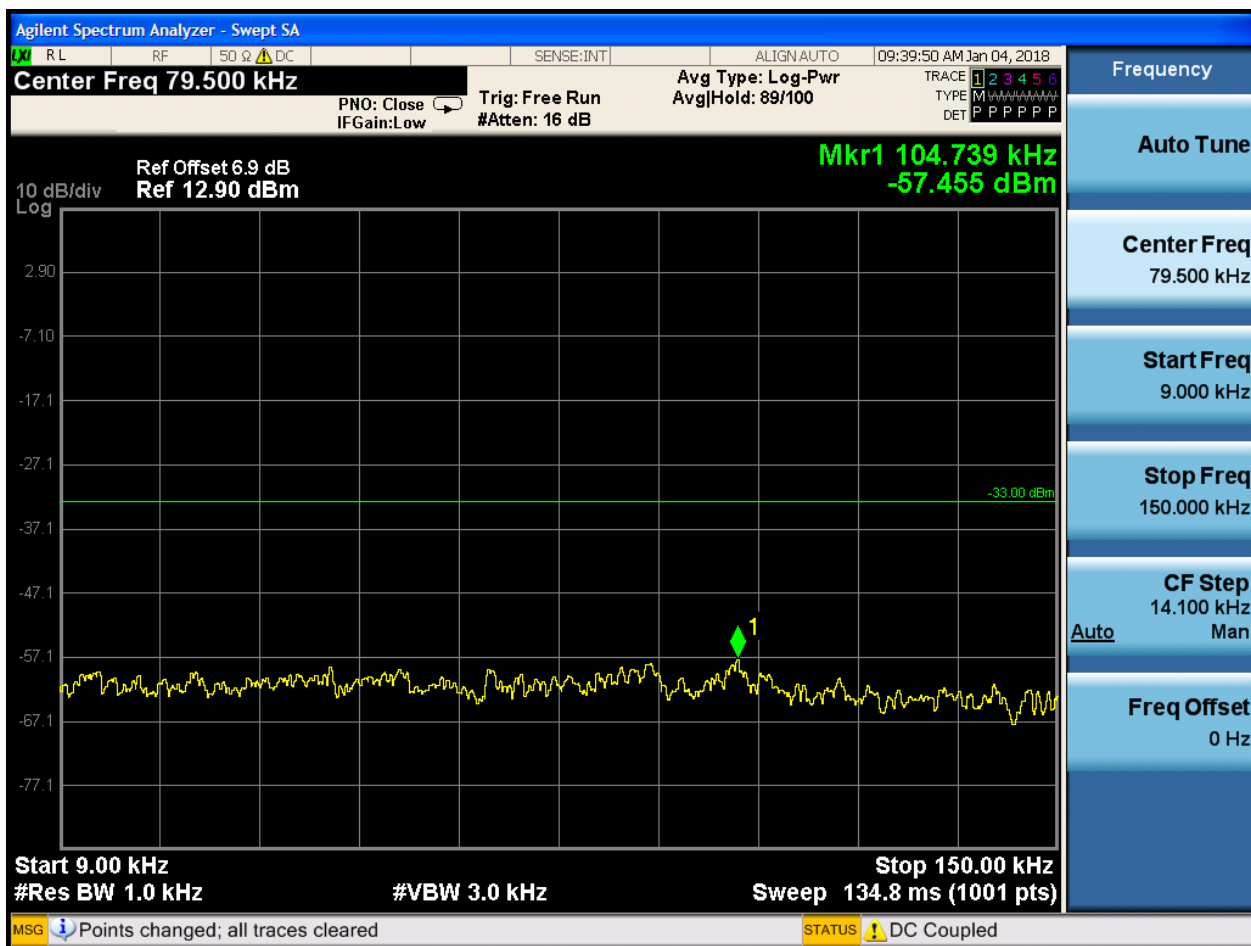


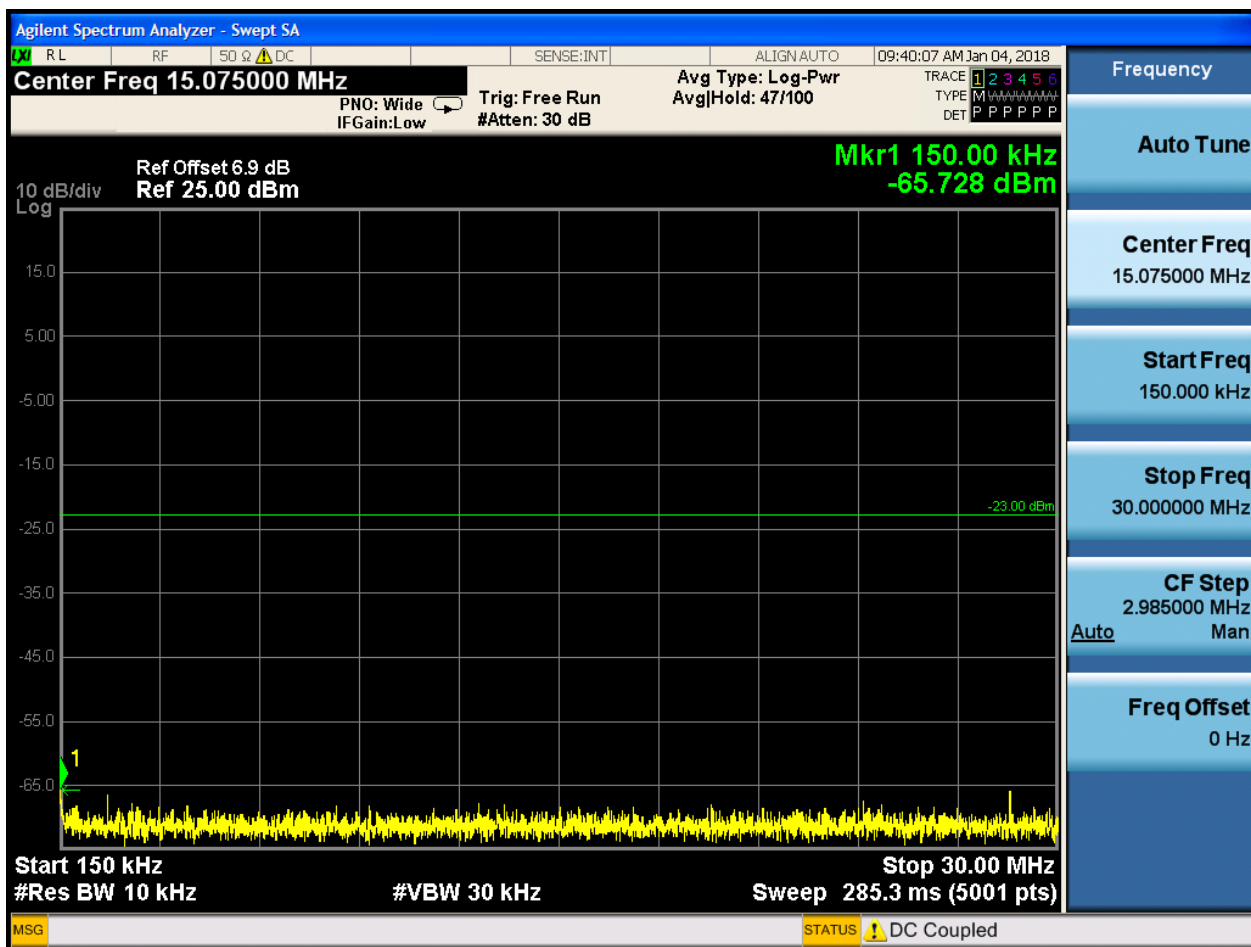


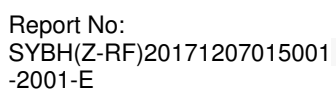


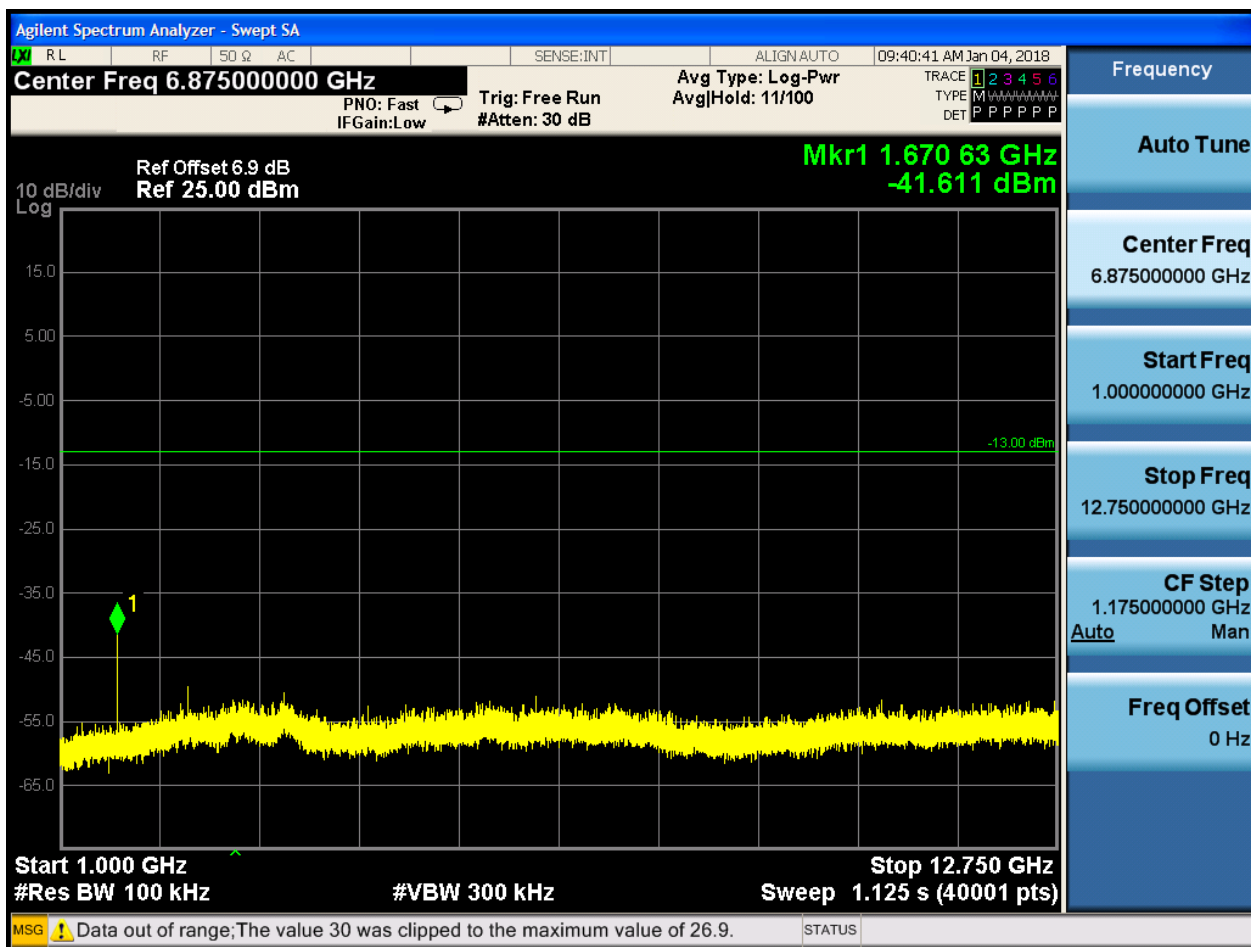
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0





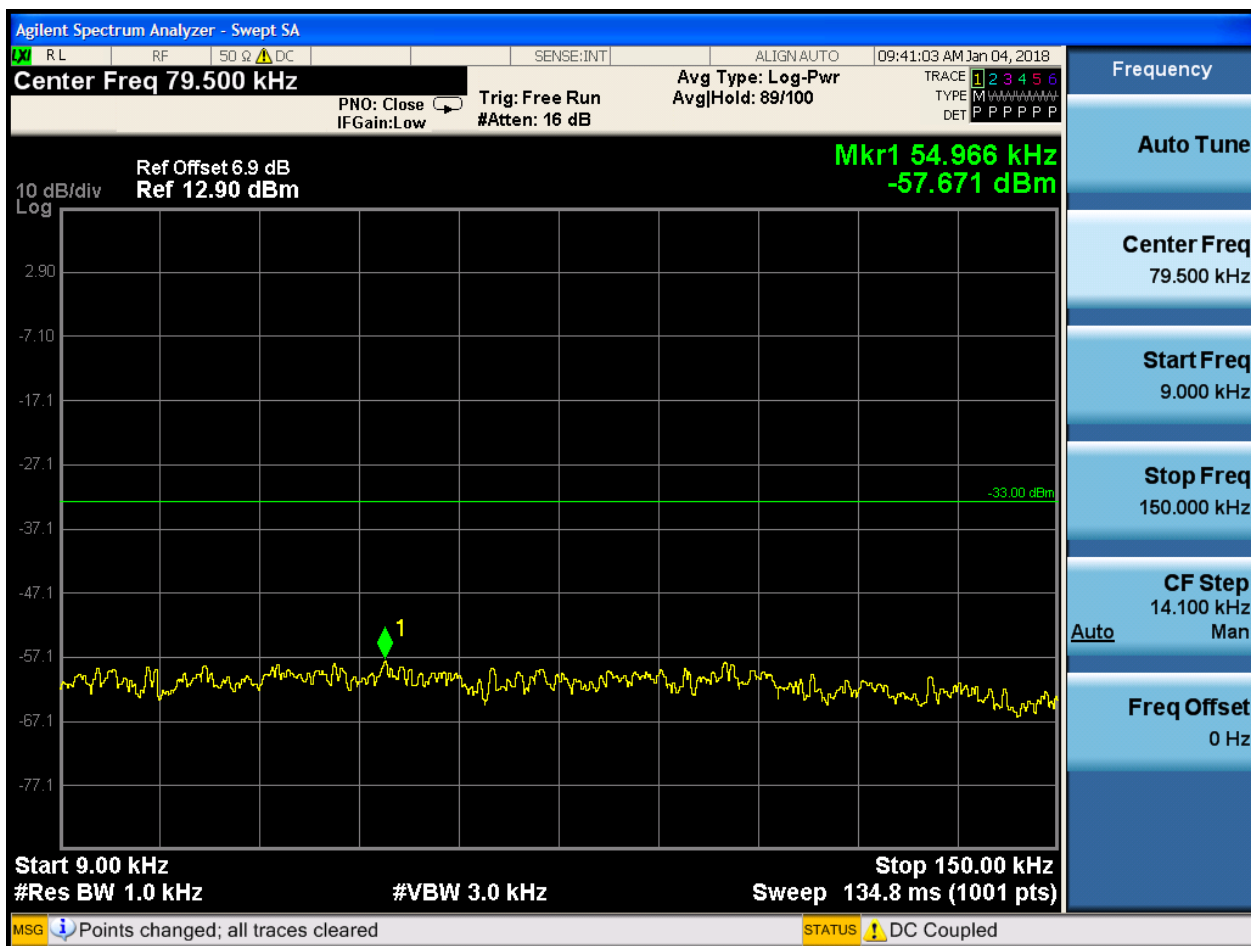


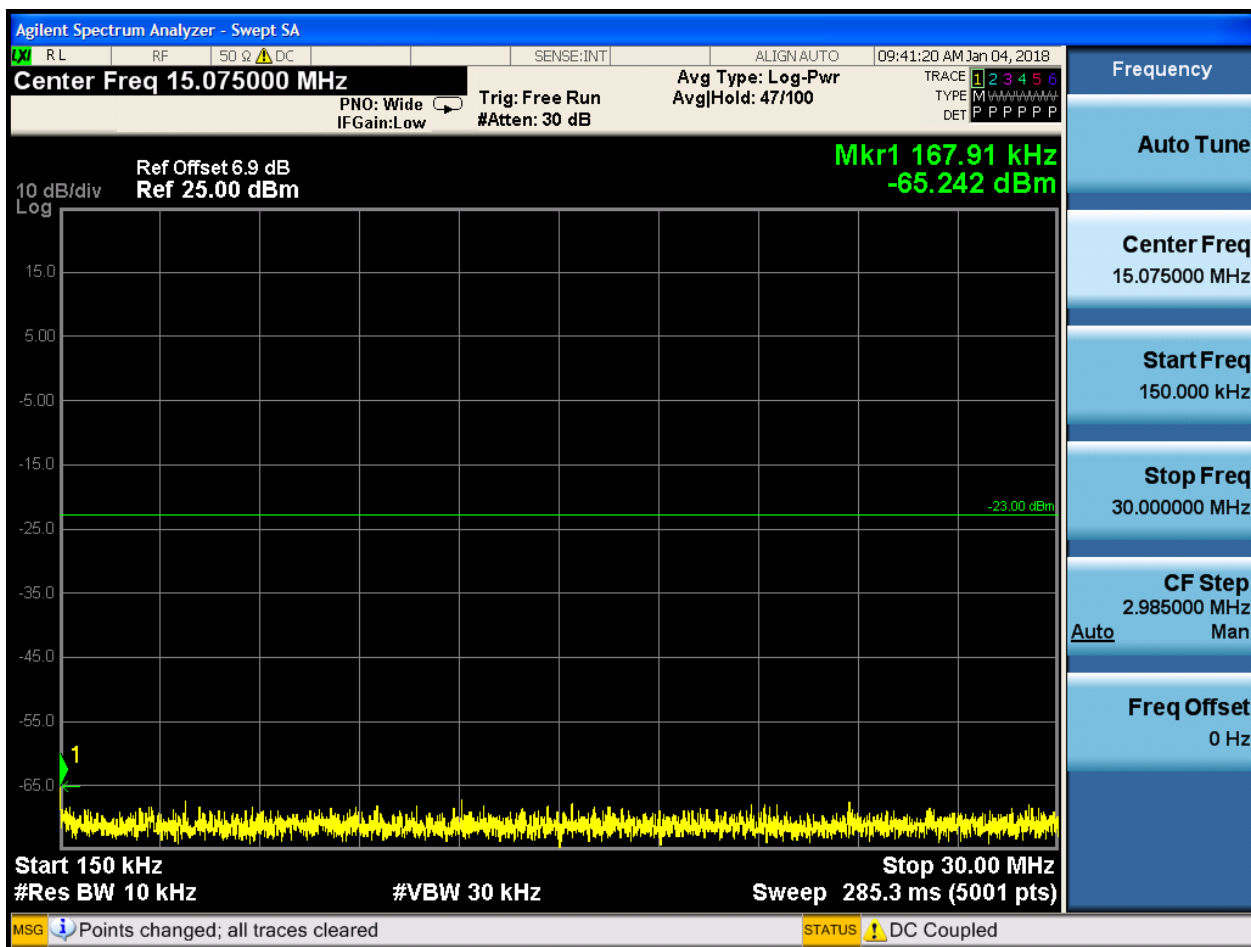


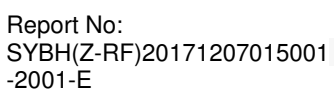


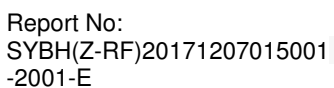
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





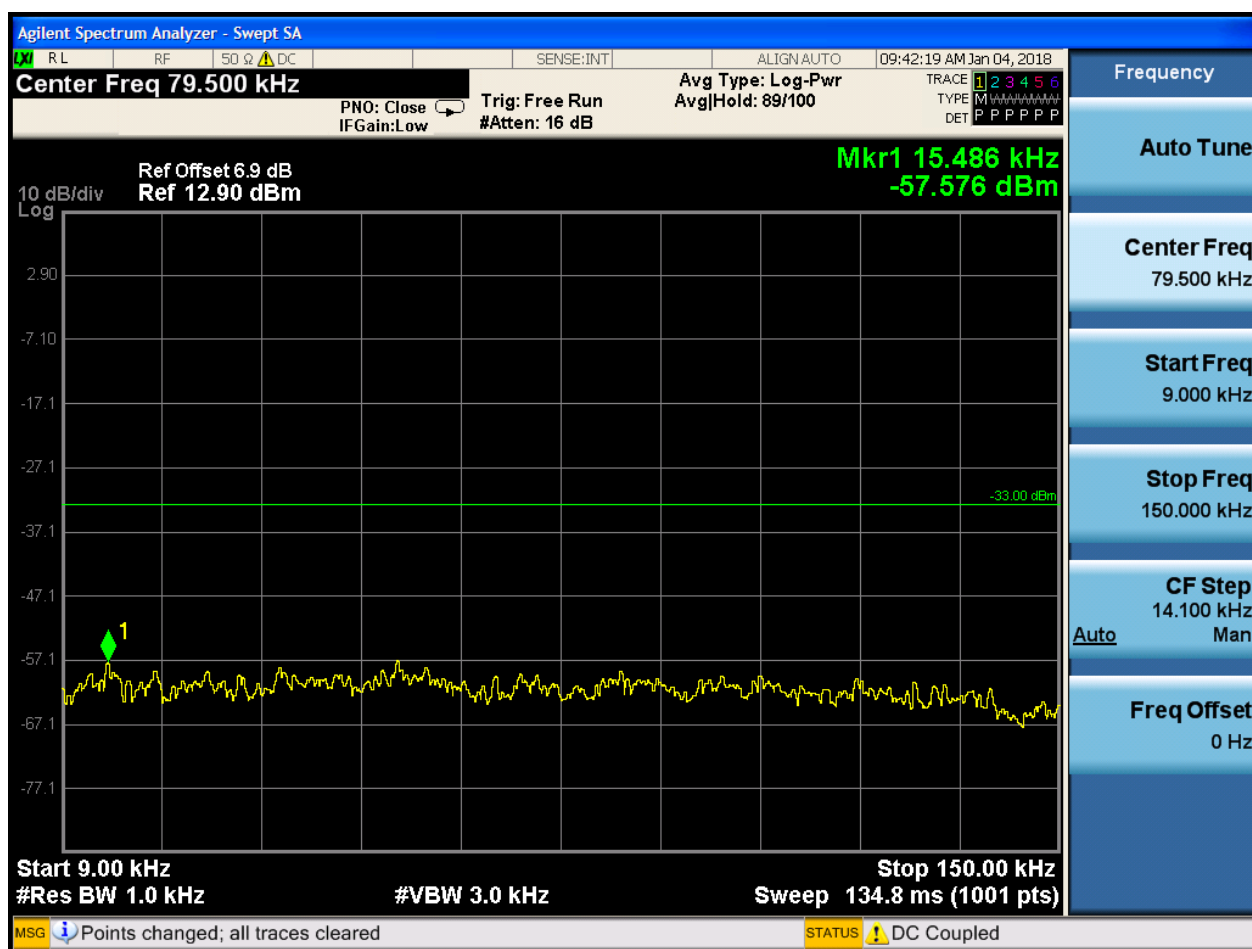


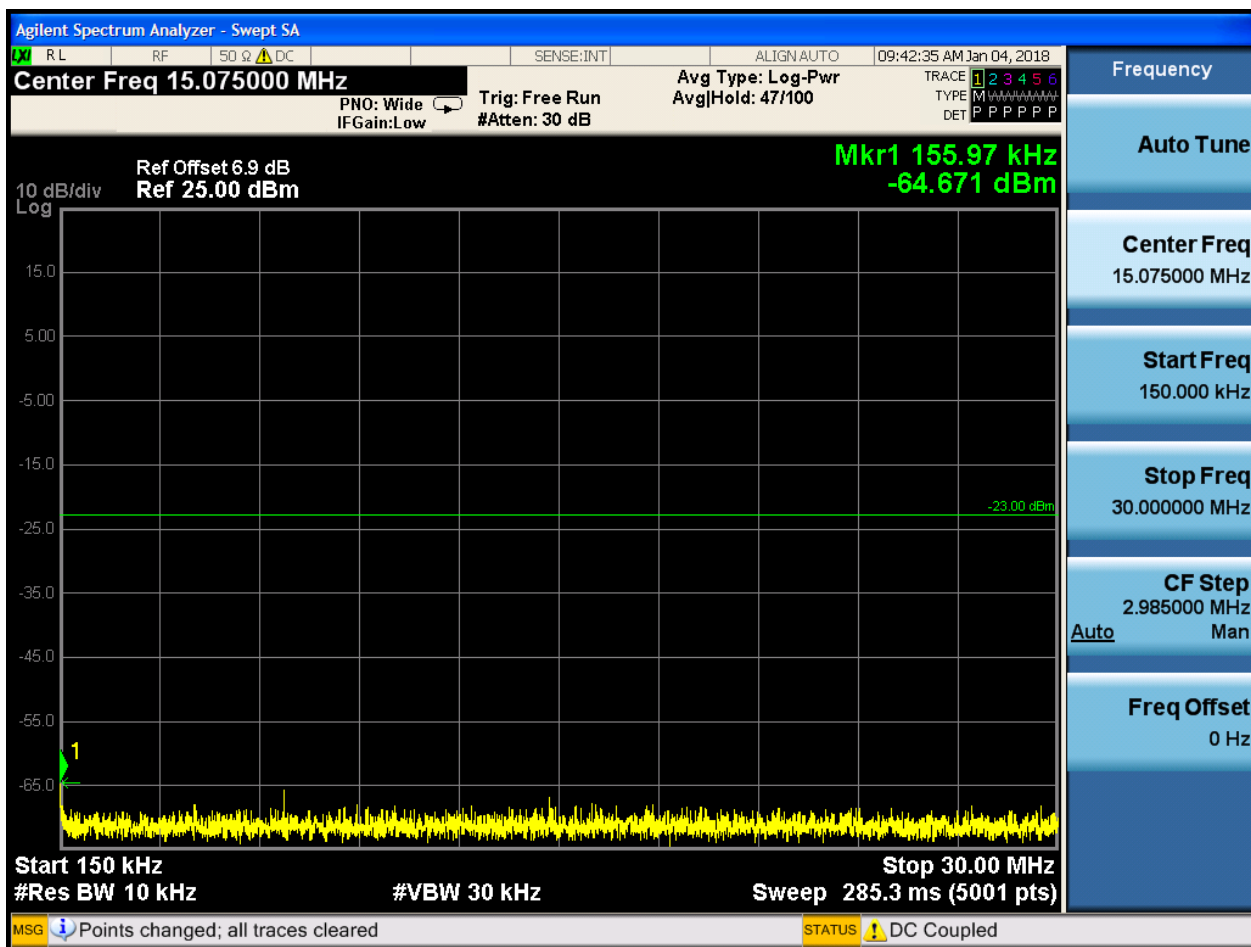


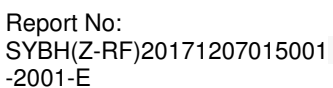
6.1.1.2.3 Test Bandwidth = 5

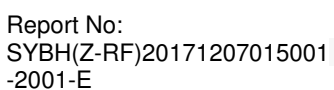
6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0





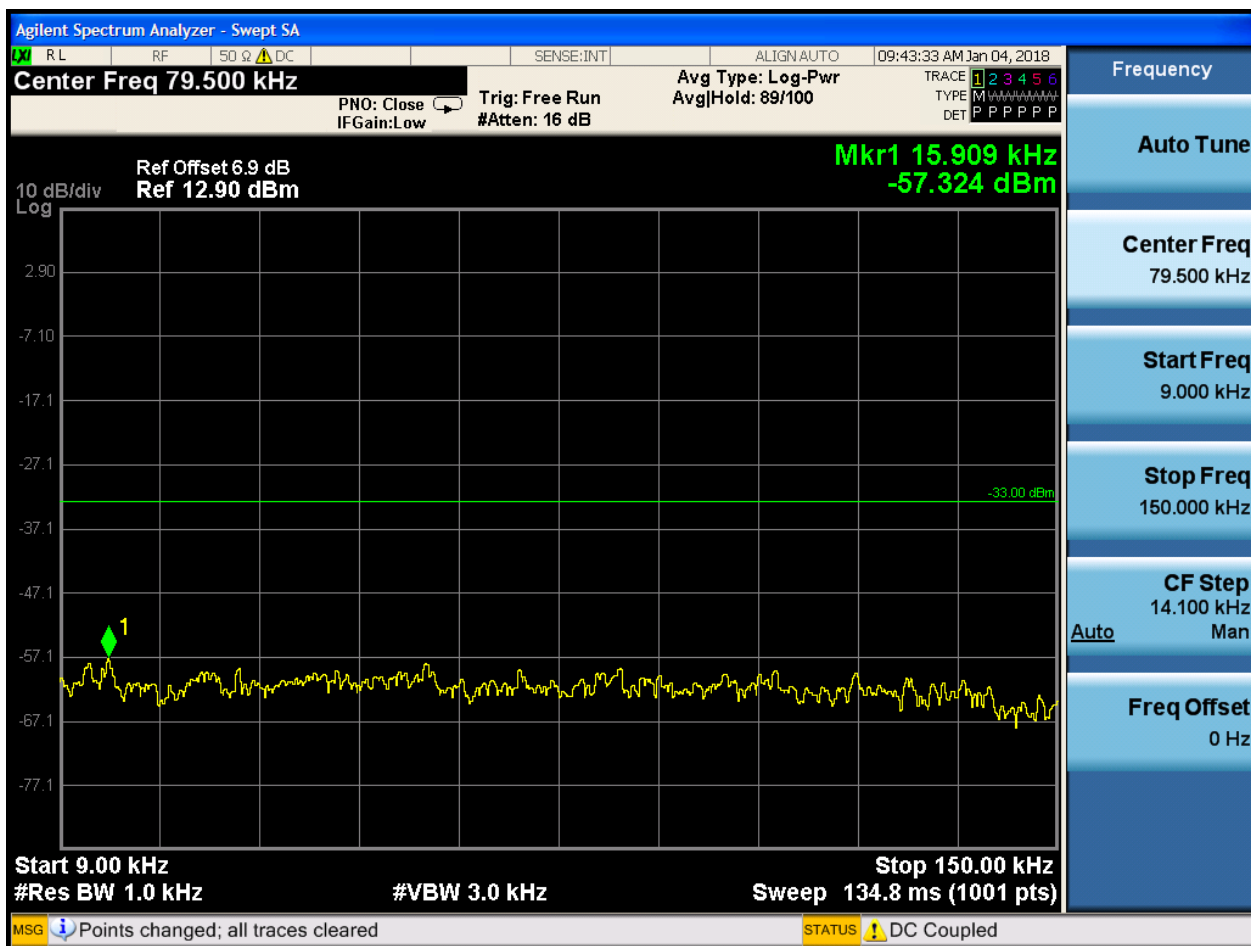




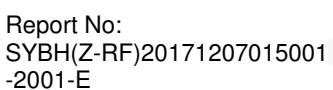


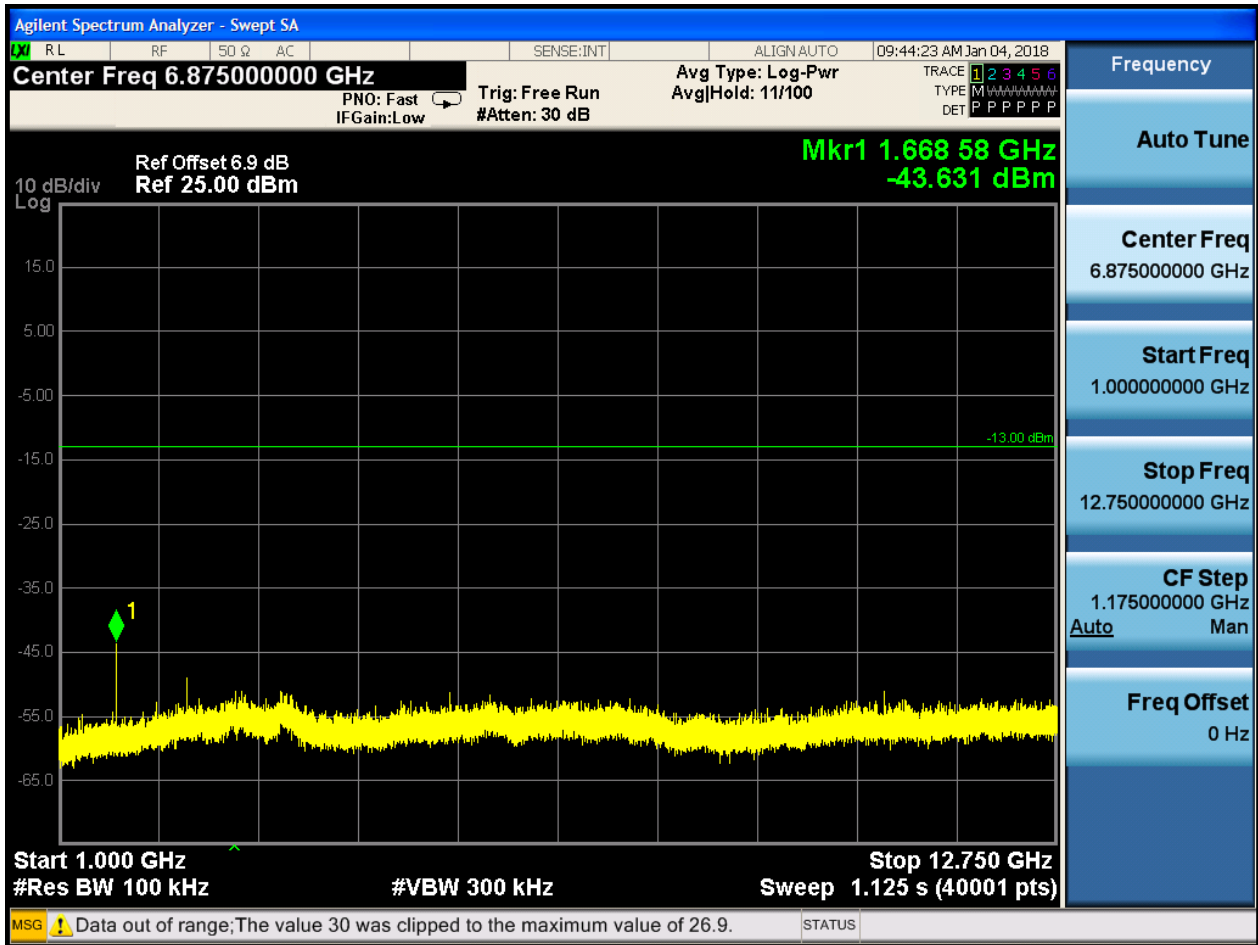
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0





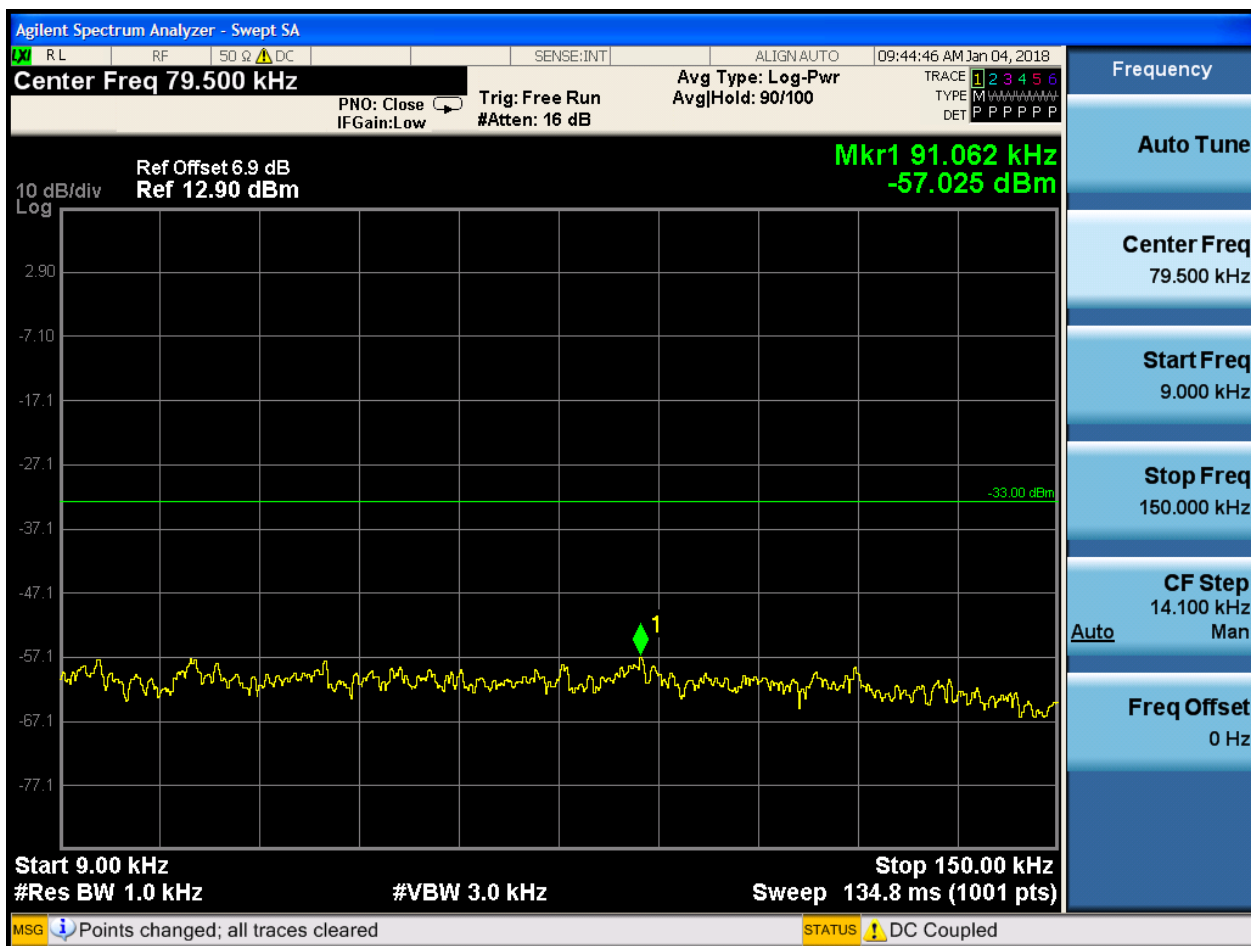


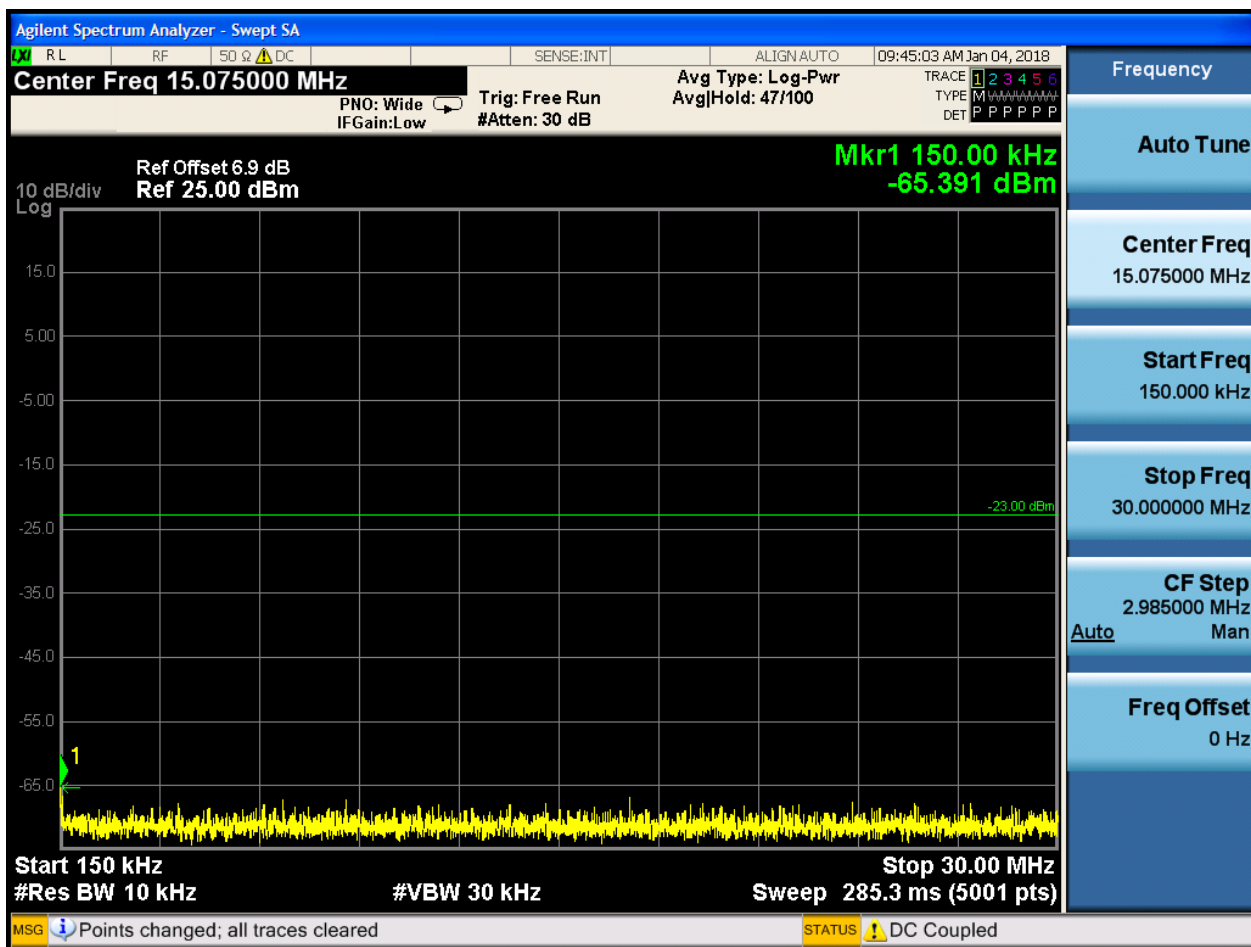


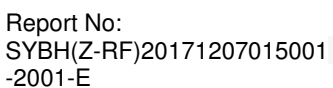


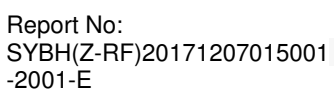
6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0







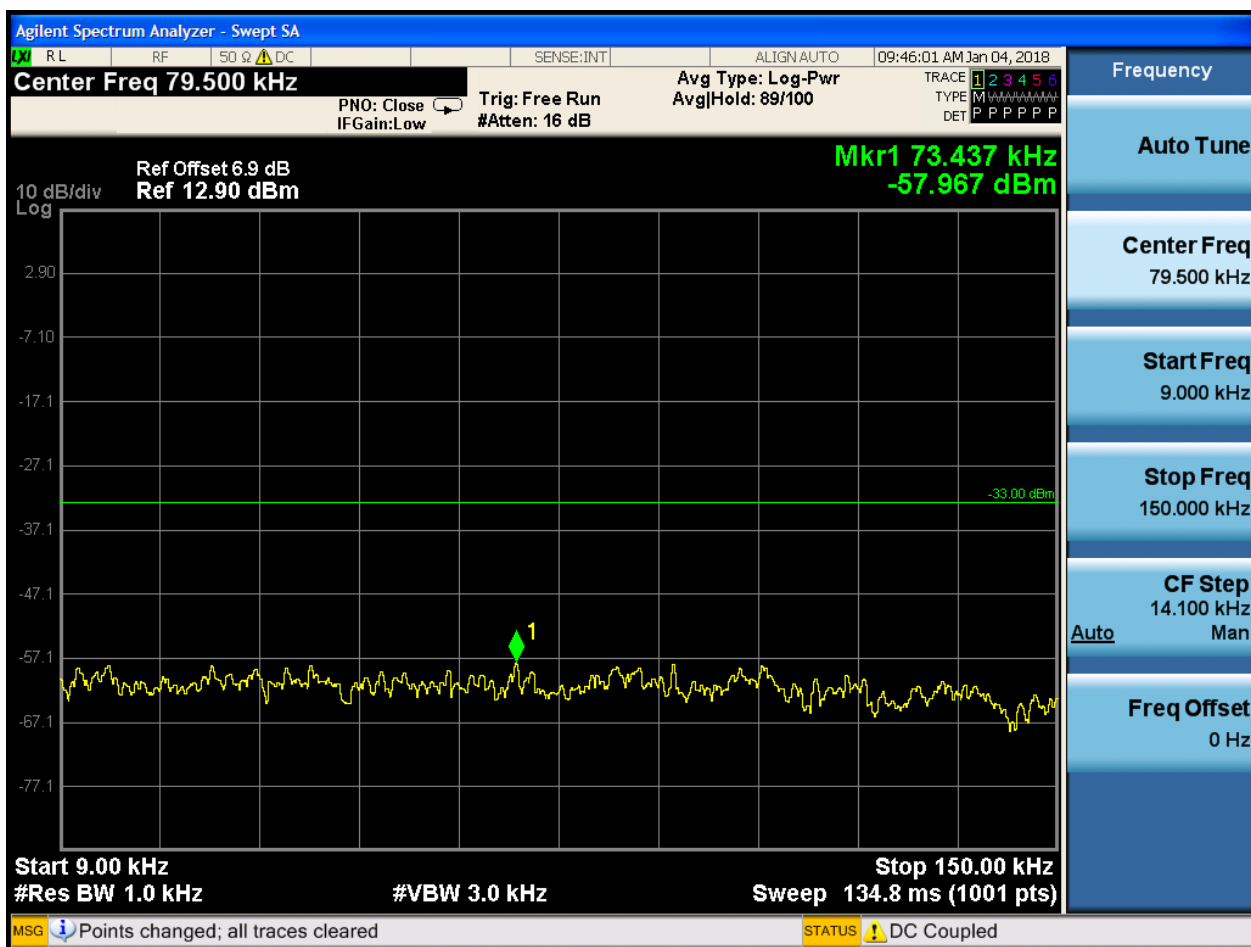


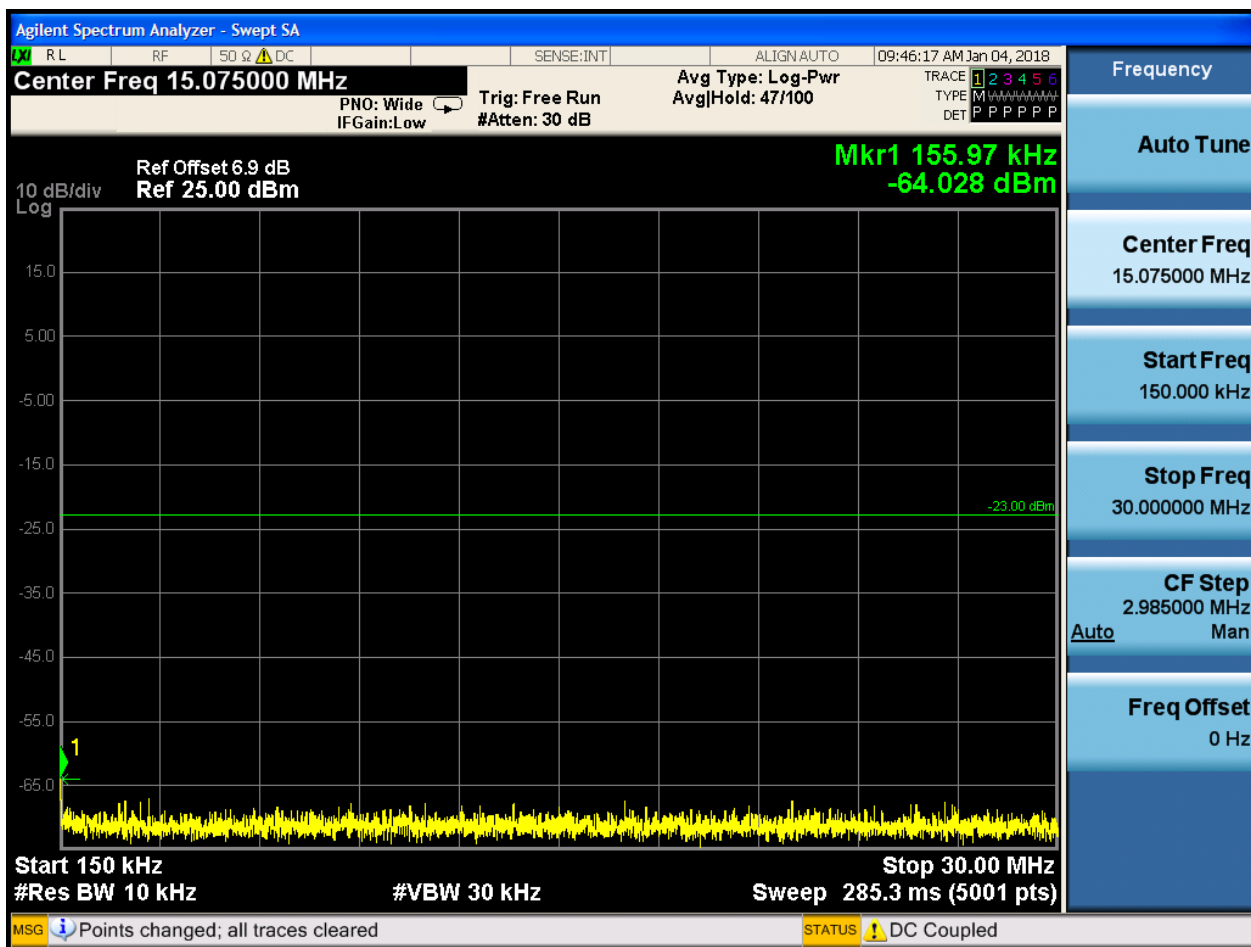


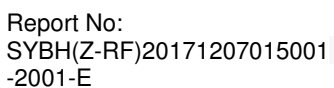
6.1.1.2.4 Test Bandwidth = 10

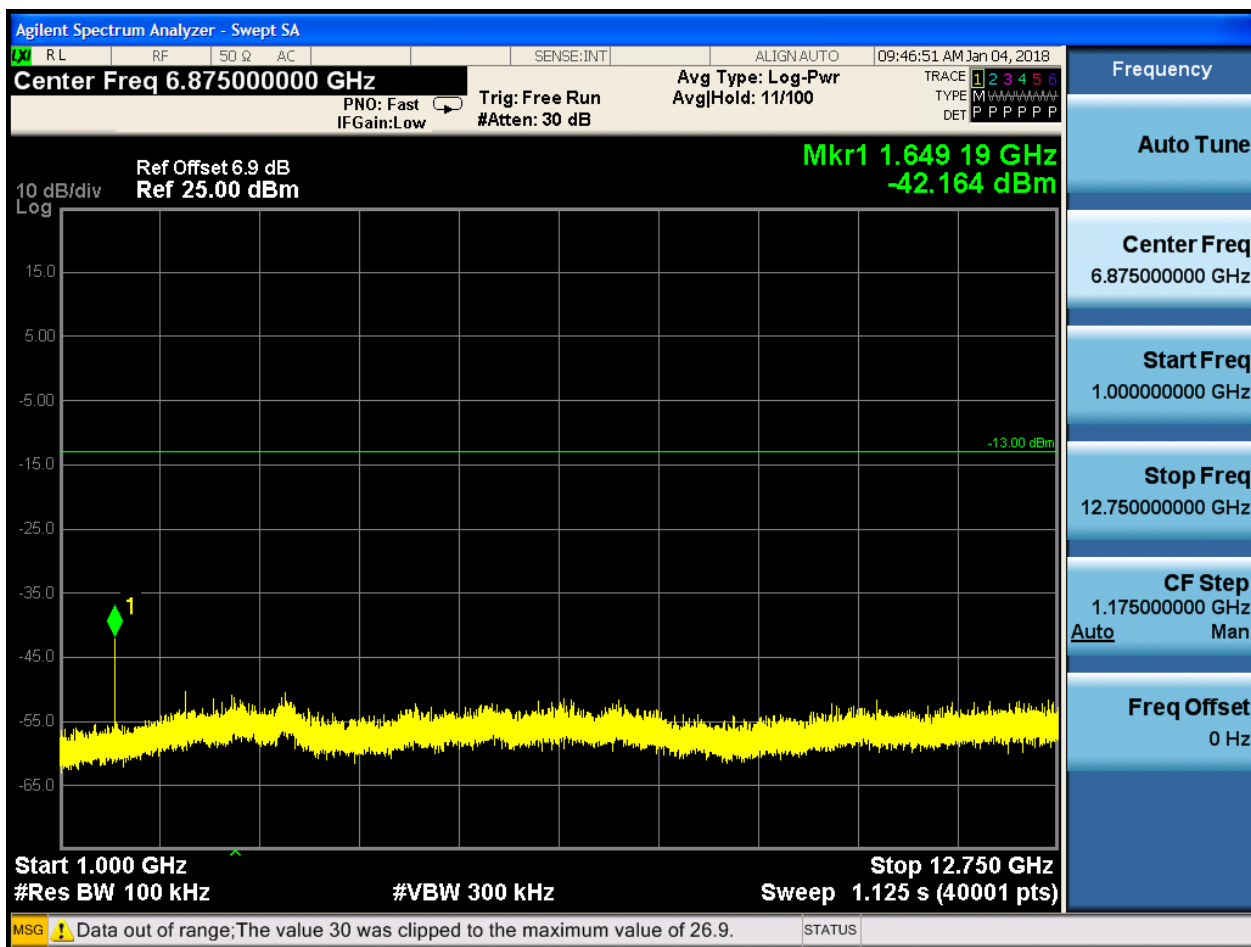
6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0





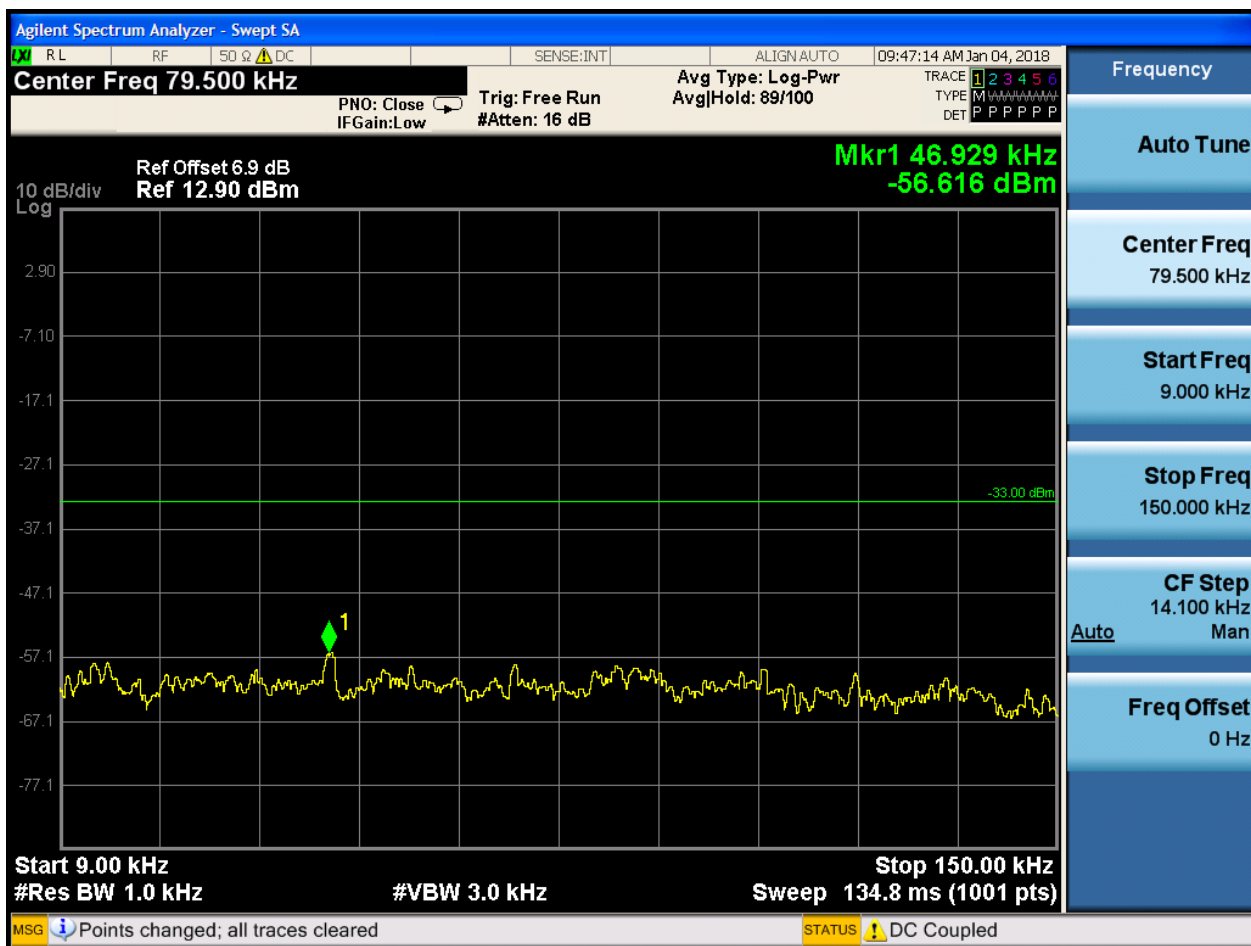


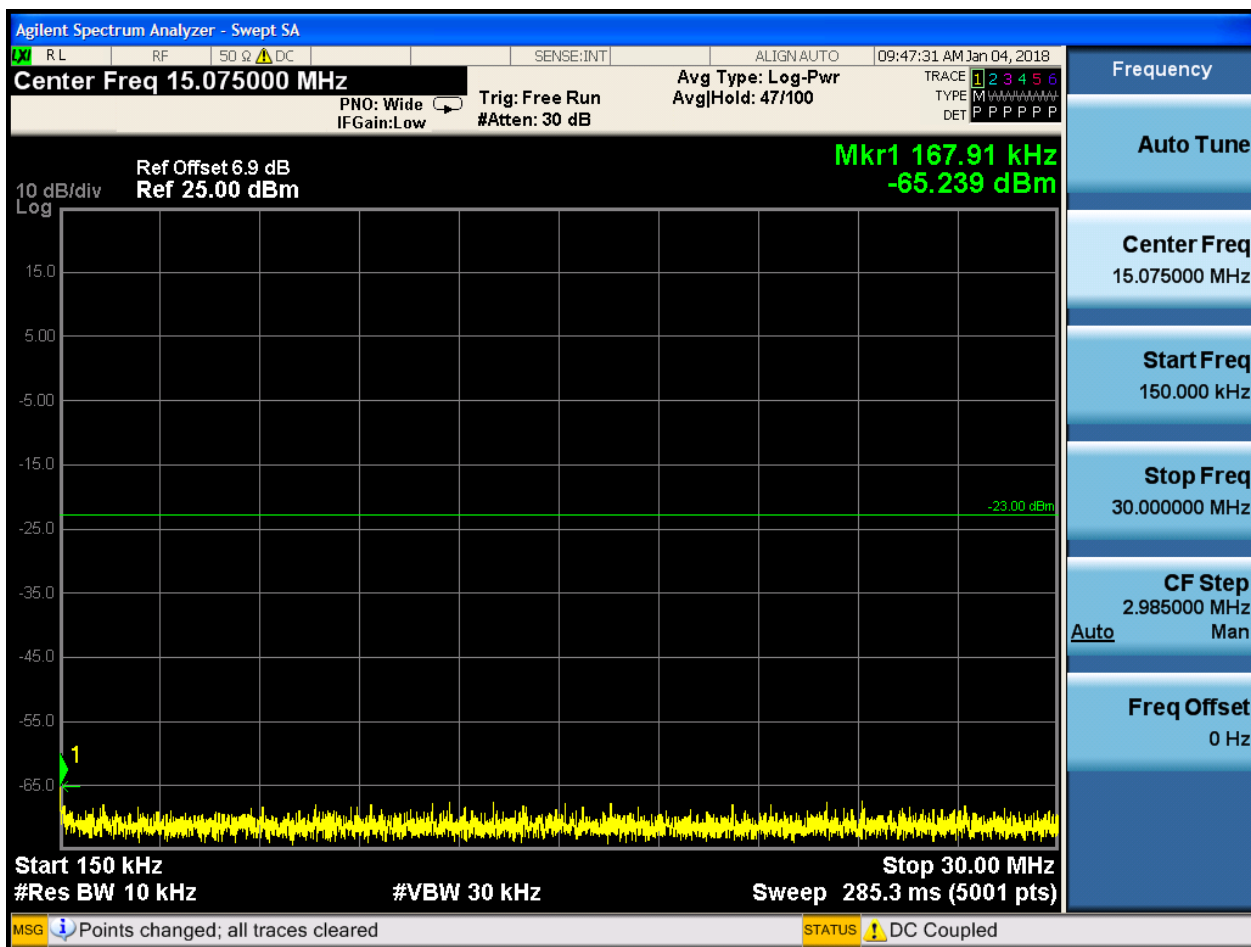


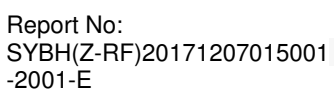


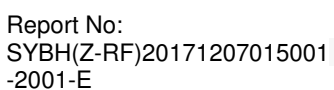
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0





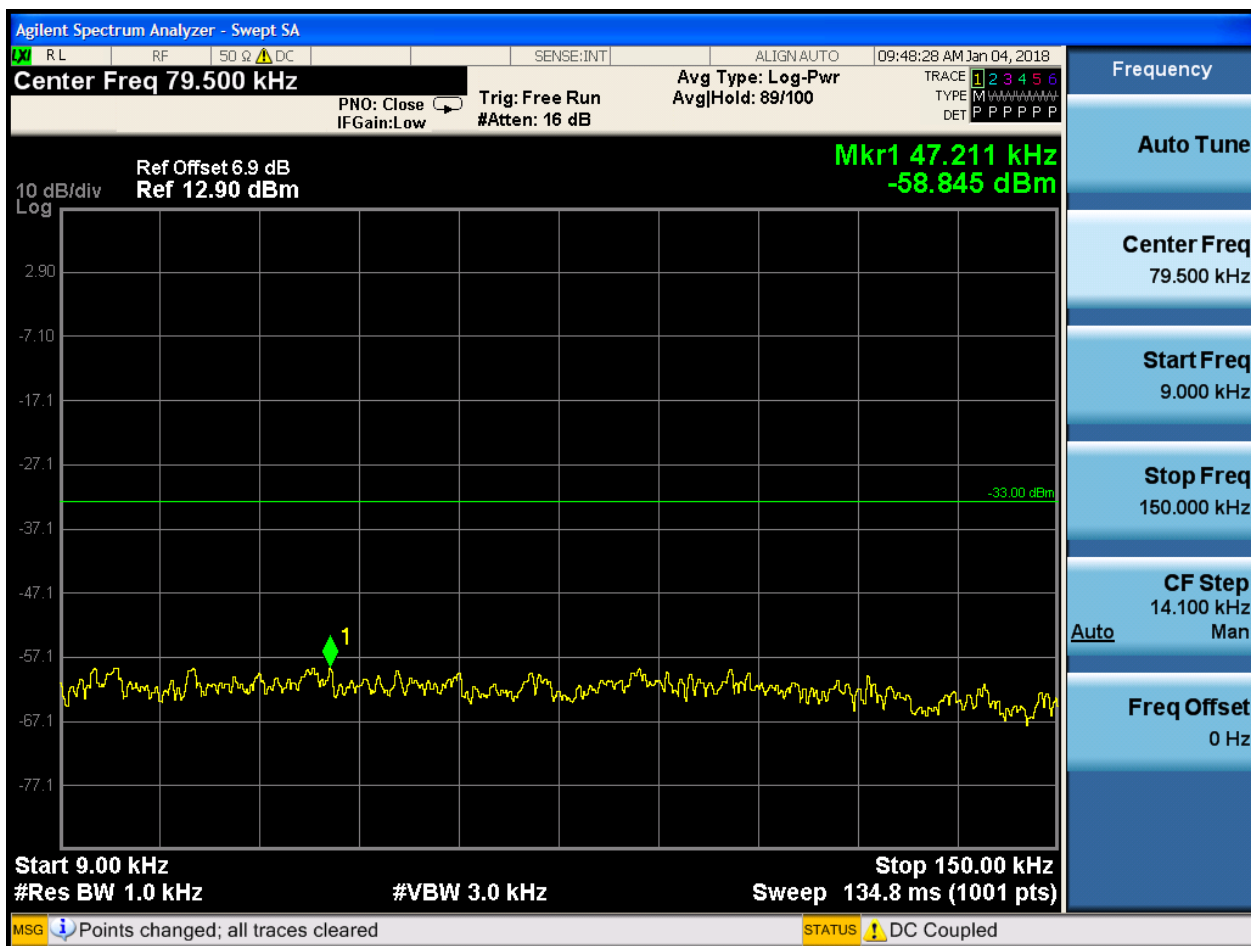




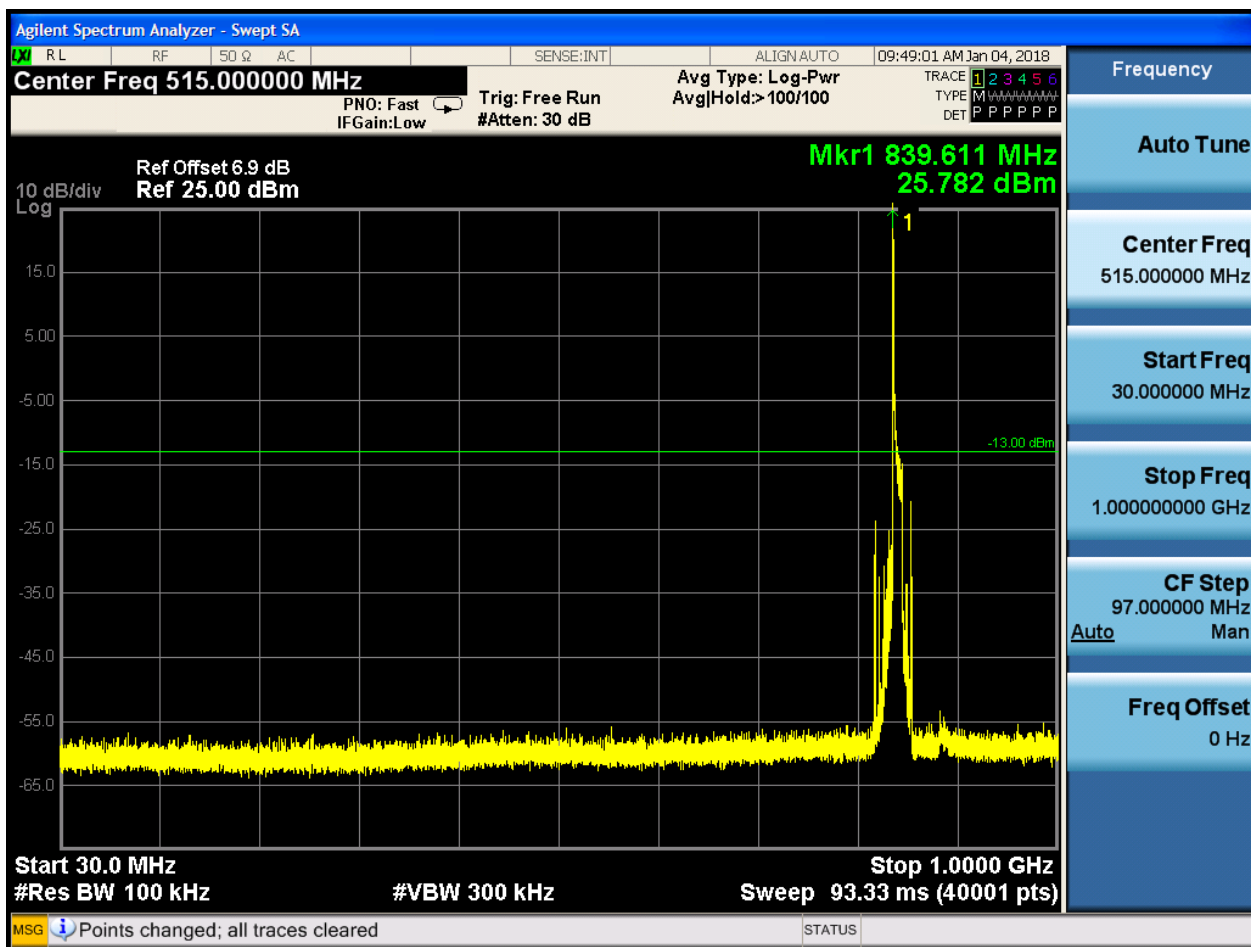


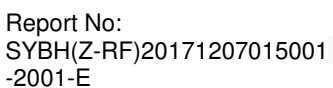
6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0









7Appendix_G: Field Strength of Spurious Radiation

Note:

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

150kHz~30MHz, RBW = 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

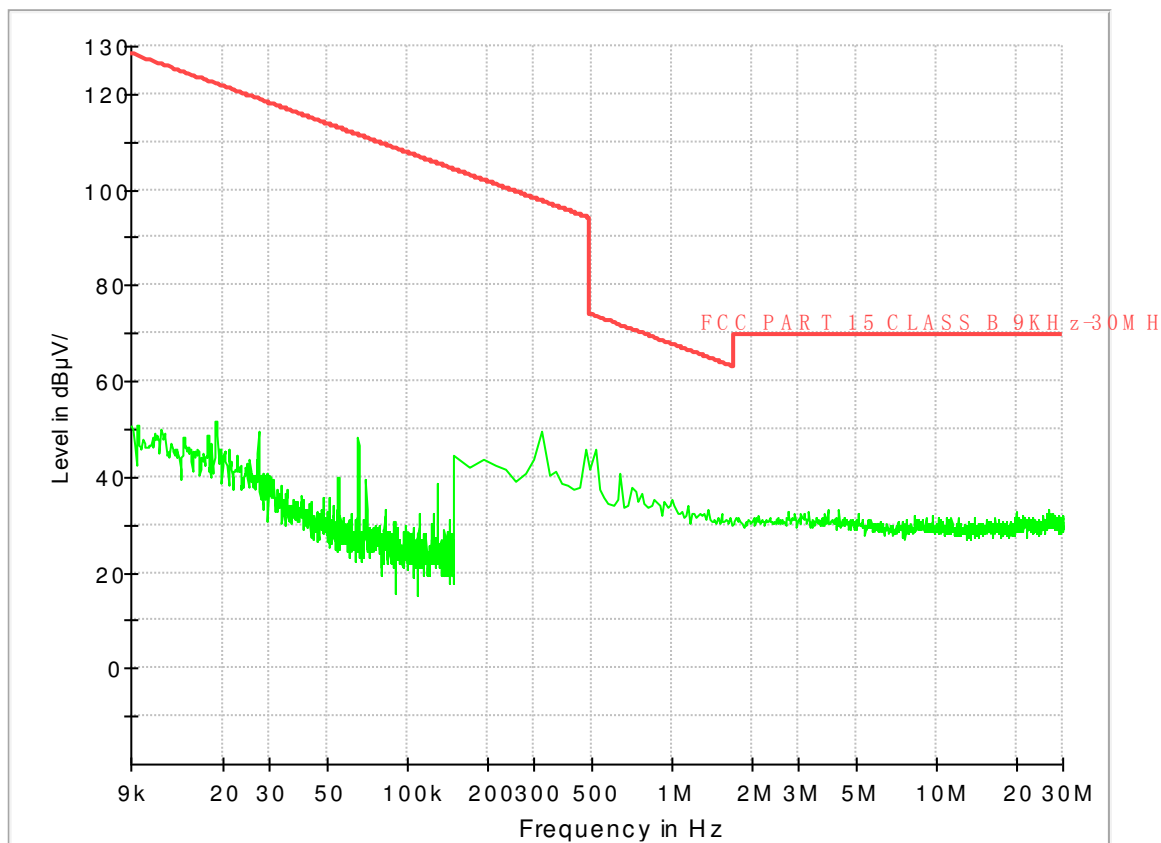
We tested all modes, but the data presented below is the worst case.

Part I - Test Plots

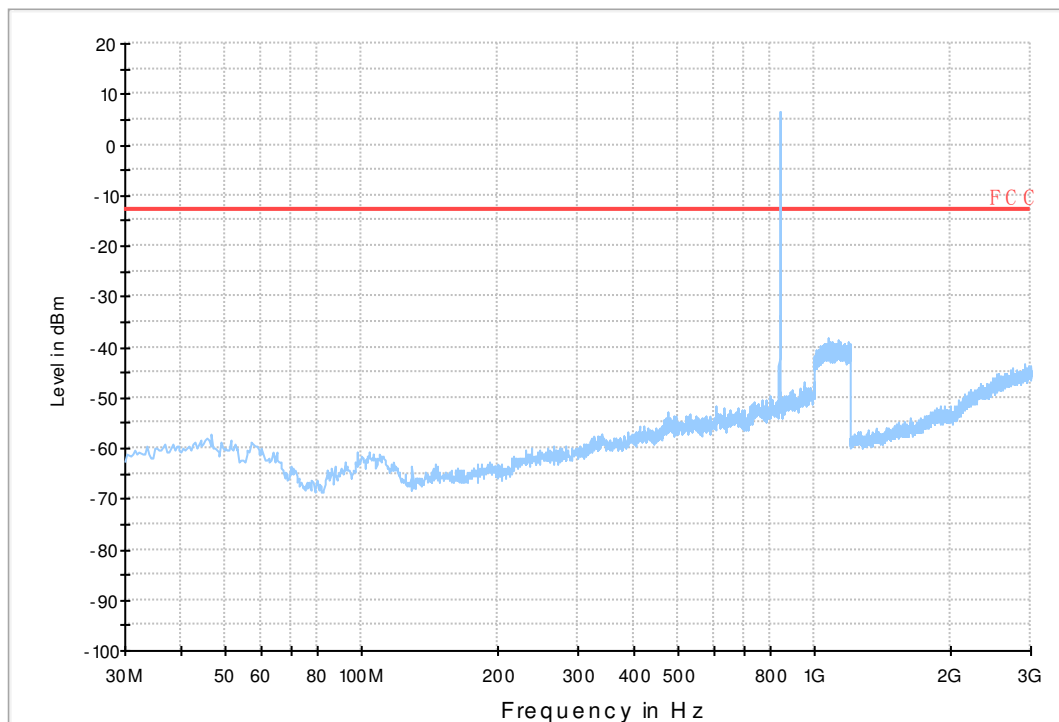
7.1 For LTE

7.1.1 Test Band = BAND5_ANT1

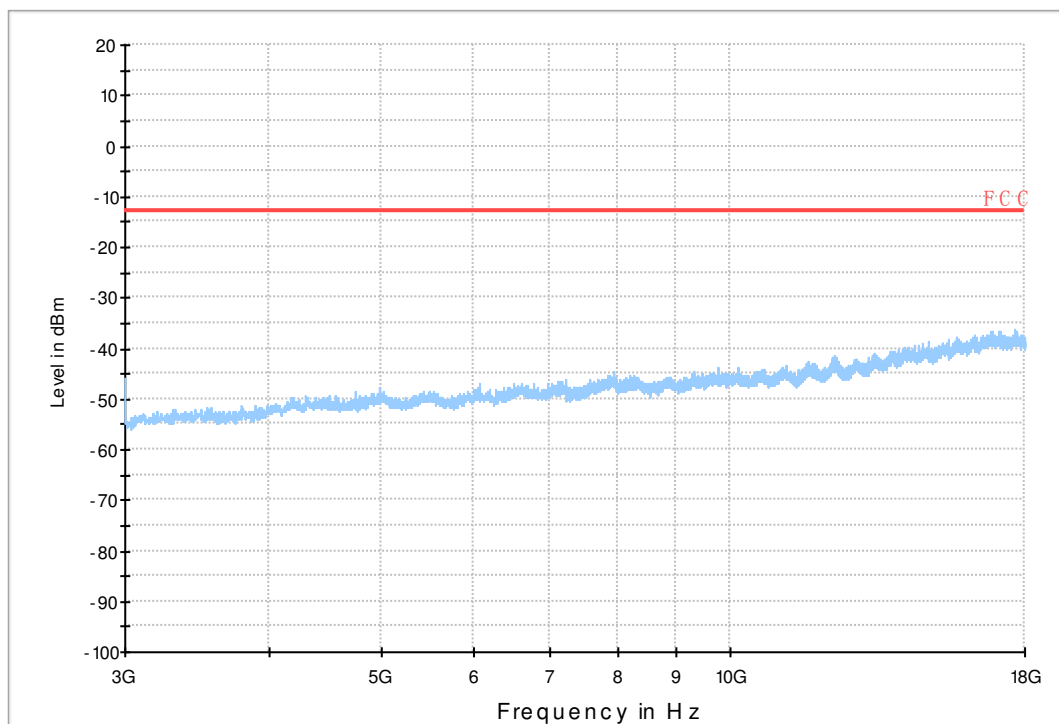
7.1.1.1 Test Bandwidth = 1.4



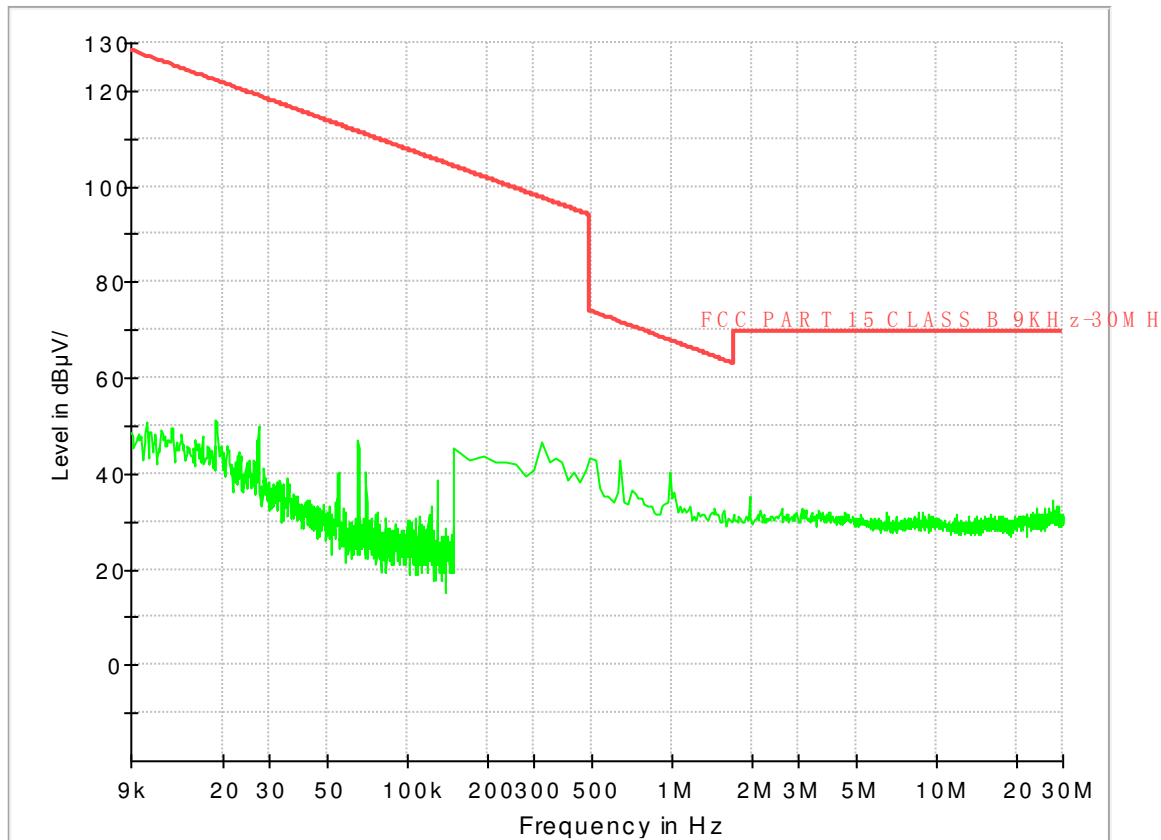
Copy of RSE-TX-DIRECTOR BELOW 1G_L



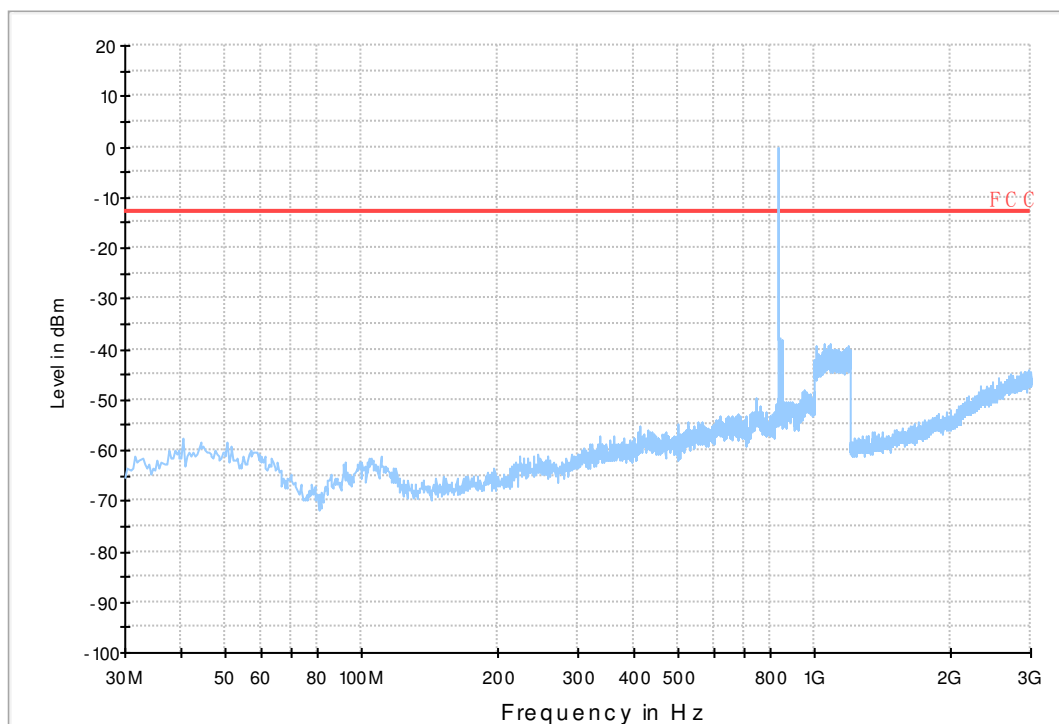
Copy of RSE-TX-DIRECTOR BELOW 1G_H



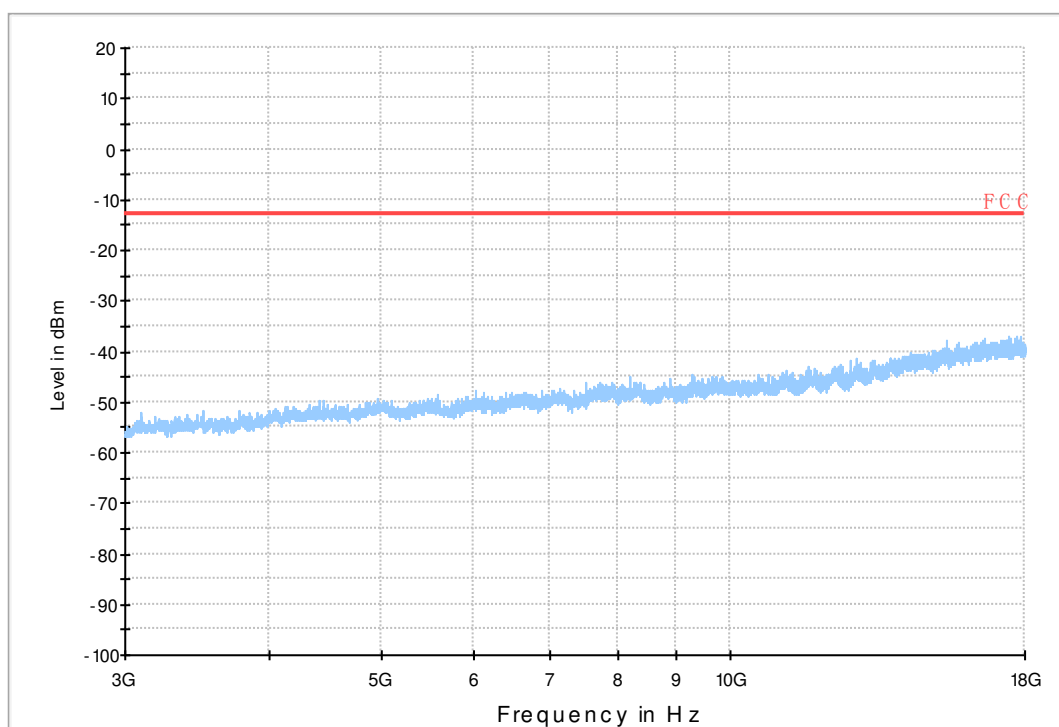
7.1.1.3 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L

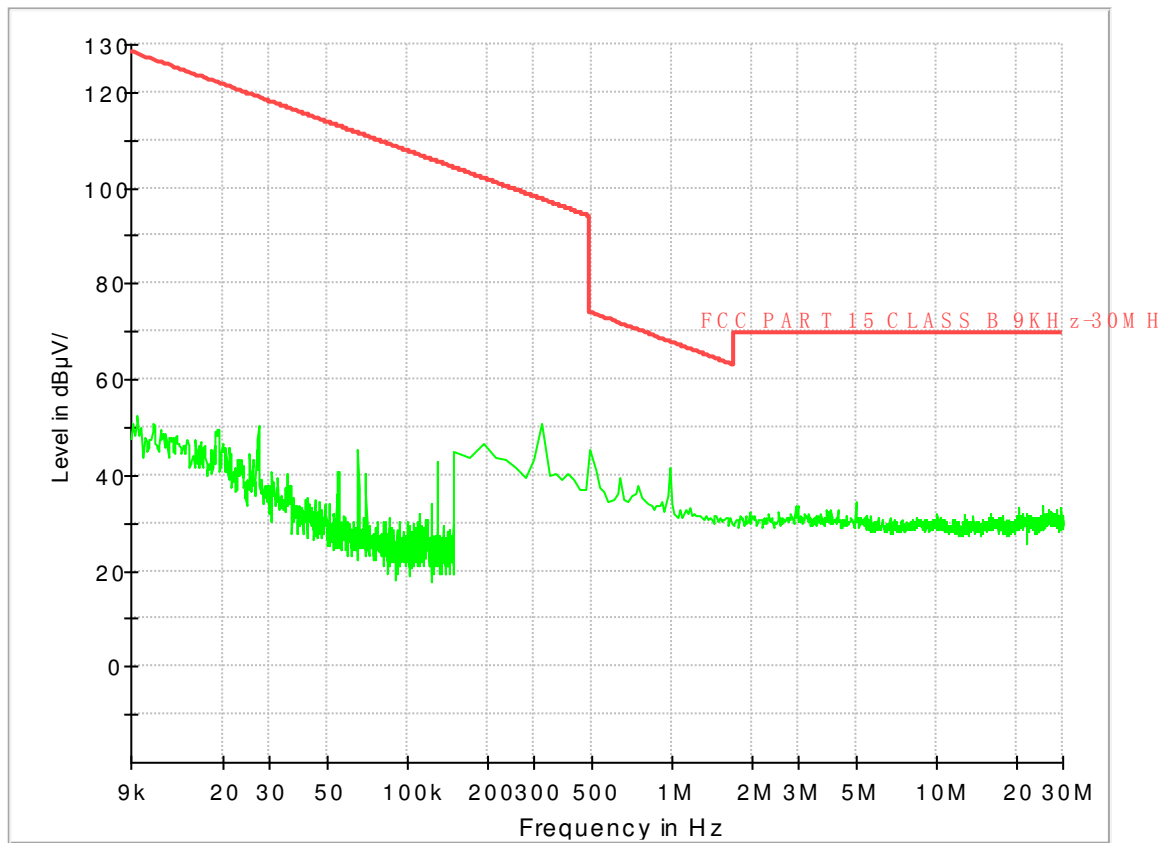


Copy of RSE-TX-DIRECTOR BELOW 1G_H

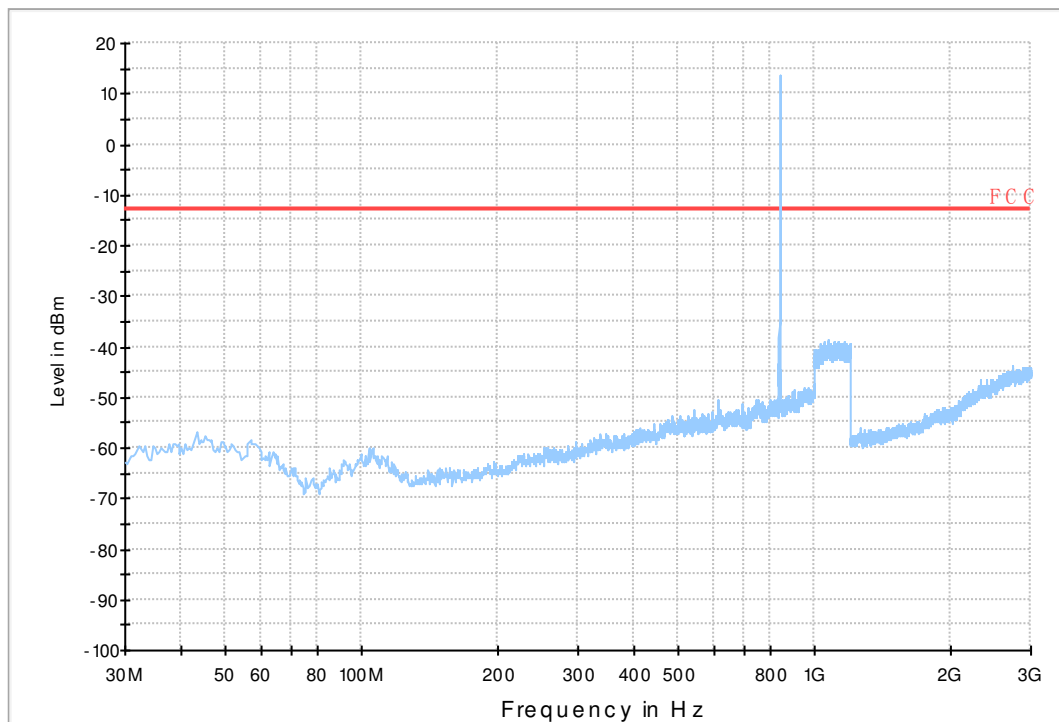


7.1.2 Test Band = BAND5_ANT2

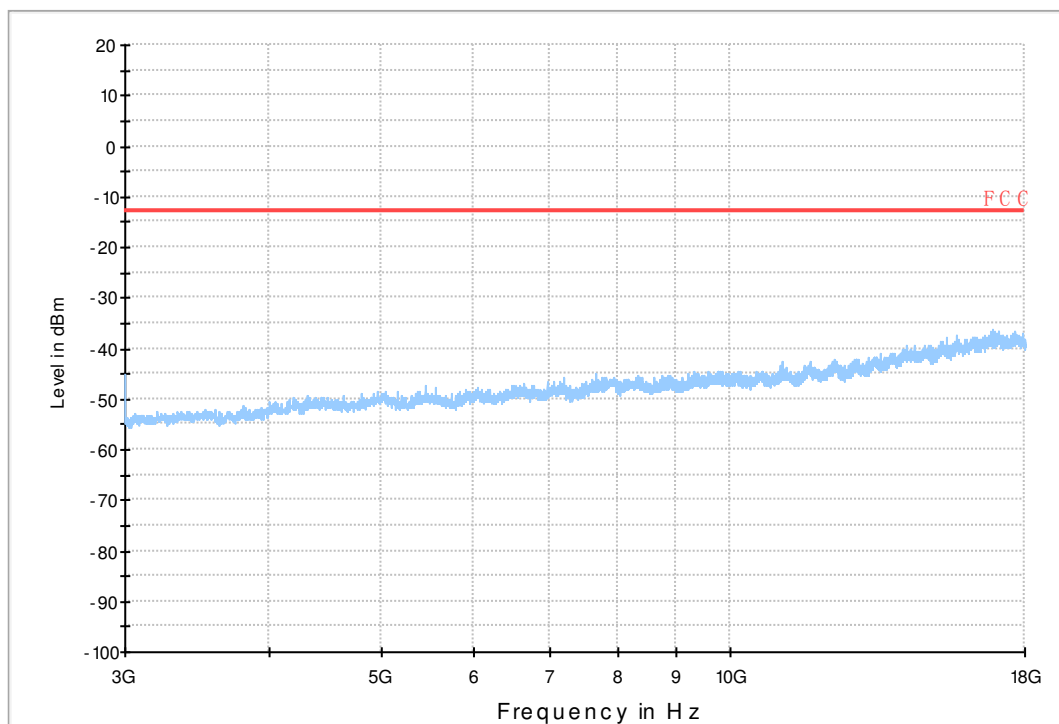
7.1.2.1 Test Bandwidth = 1.4



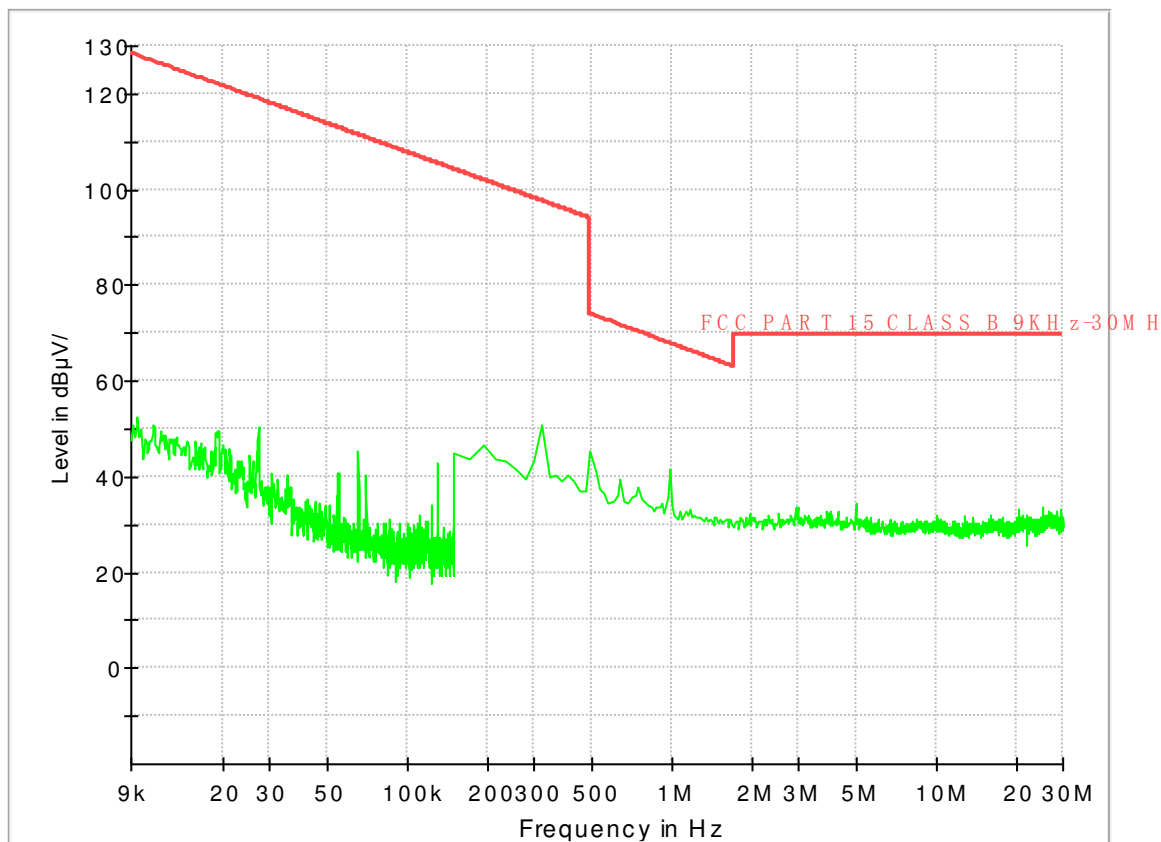
Copy of RSE-TX-DIRECTOR BELOW 1G_L



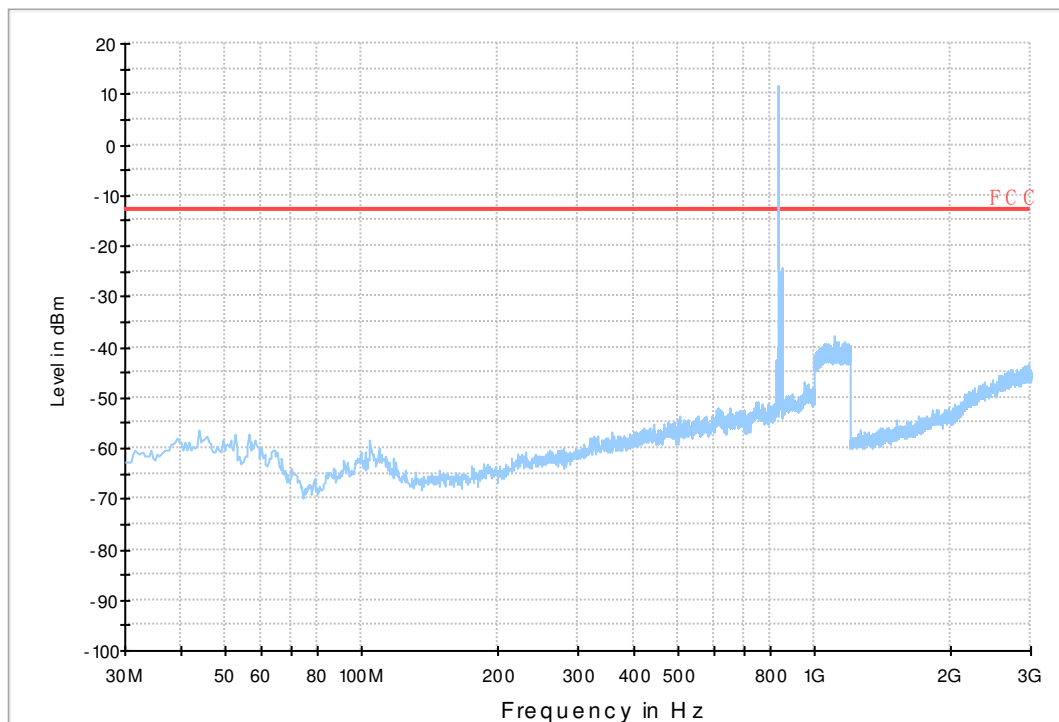
Copy of RSE-TX-DIRECTOR BELOW 1G_H



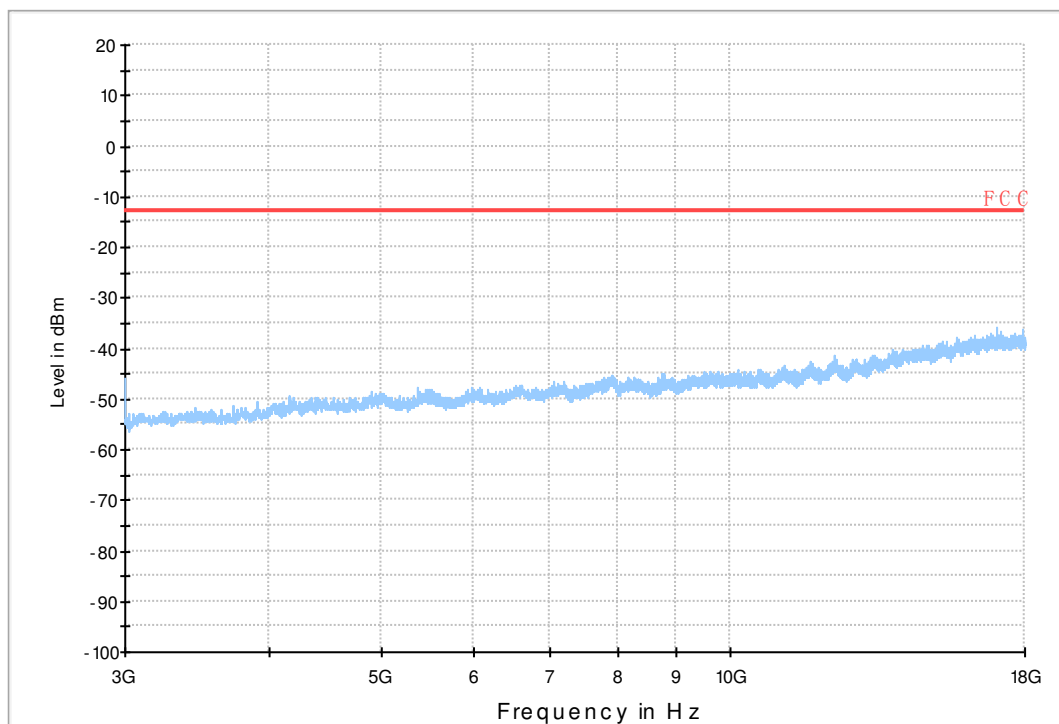
7.1.2.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	LTE/TM1	1.4	LCH	TN	VL	-7.74	-0.00939	PASS
					VN	-2.29	-0.00278	PASS
					VH	1.95	0.00236	PASS
			MCH	TN	VL	7.97	0.00953	PASS
					VN	5.48	0.00655	PASS
					VH	-3.26	-0.0039	PASS
			HCH	TN	VL	5.32	0.00627	PASS
					VN	-7.21	-0.0085	PASS
					VH	4.09	0.00482	PASS
		3	LCH	TN	VL	3.29	0.00399	PASS
					VN	3.72	0.00451	PASS
					VH	1.27	0.00154	PASS
			MCH	TN	VL	-0.53	-0.00063	PASS
					VN	1.89	0.00226	PASS
					VH	1.73	0.00207	PASS
			HCH	TN	VL	3.16	0.00373	PASS
					VN	-1.14	-0.00135	PASS
					VH	-3.35	-0.00395	PASS
		5	LCH	TN	VL	-5.71	-0.00691	PASS
					VN	-3.63	-0.00439	PASS
					VH	-0.49	-0.00059	PASS
			MCH	TN	VL	-1.75	-0.00209	PASS
					VN	3.12	0.00373	PASS
					VH	-0.2	-0.00024	PASS
			HCH	TN	VL	-1.72	-0.00203	PASS
					VN	4.25	0.00502	PASS
					VH	1.29	0.00152	PASS
		10	LCH	TN	VL	1.76	0.00212	PASS
					VN	3.08	0.00372	PASS
					VH	0.46	0.00055	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	TN	VL	-3.55	-0.00424	PASS
					VN	1.87	0.00224	PASS
					VH	3.22	0.00385	PASS
			HCH	TN	VL	-1.77	-0.0021	PASS
					VN	-2.12	-0.00251	PASS
					VH	-1.16	-0.00137	PASS
		1.4	LCH	TN	VL	-0.37	-0.00045	PASS
					VN	-6.88	-0.00834	PASS
					VH	1.6	0.00194	PASS
			MCH	TN	VL	14.22	0.017	PASS
					VN	-1.37	-0.00164	PASS
					VH	-14.86	-0.01776	PASS
			HCH	TN	VL	-1.19	-0.0014	PASS
					VN	-4.01	-0.00473	PASS
					VH	-7.71	-0.00909	PASS
		3	LCH	TN	VL	4.56	0.00552	PASS
					VN	-1.6	-0.00194	PASS
					VH	1.4	0.0017	PASS
			MCH	TN	VL	-0.99	-0.00118	PASS
					VN	-2	-0.00239	PASS
					VH	-0.8	-0.00096	PASS
			HCH	TN	VL	-5.39	-0.00636	PASS
					VN	0.7	0.00083	PASS
					VH	3.12	0.00368	PASS
	LTE/TM2	5	LCH	TN	VL	-1.27	-0.00154	PASS
					VN	-2.27	-0.00275	PASS
					VH	-3.12	-0.00377	PASS
			MCH	TN	VL	-9.61	-0.01149	PASS
					VN	0.82	0.00098	PASS
					VH	-2.27	-0.00271	PASS
			HCH	TN	VL	0.6	0.00071	PASS
					VN	-0.49	-0.00058	PASS
					VH	1.19	0.00141	PASS
		10	LCH	TN	VL	4.78	0.00577	PASS
					VN	3.68	0.00444	PASS
					VH	2.73	0.00329	PASS
			MCH	TN	VL	3.35	0.004	PASS
					VN	-2.19	-0.00262	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VH	4.33	0.00518	PASS
					VL	0.56	0.00066	PASS
					VN	4.11	0.00487	PASS
					VH	1.13	0.00134	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	LTE/TM1	1.4	LCH	VN	-30	-6.42	-0.00778	PASS
					-20	-7.02	-0.00851	PASS
					-10	-2.6	-0.00315	PASS
					0	-4.46	-0.00541	PASS
					10	-5.29	-0.00641	PASS
					20	3.53	0.00428	PASS
					30	0.19	0.00023	PASS
					40	-2.52	-0.00306	PASS
					50	-4.39	-0.00532	PASS
			MCH	VN	-30	7.84	0.00937	PASS
					-20	-5.02	-0.006	PASS
					-10	-11.03	-0.01319	PASS
					0	-14.1	-0.01686	PASS
					10	-19.21	-0.02296	PASS
					20	-5.87	-0.00702	PASS
					30	7.12	0.00851	PASS
					40	26.95	0.03222	PASS
					50	17.05	0.02038	PASS
			HCH	VN	-30	2.33	0.00275	PASS
					-20	3.68	0.00434	PASS
					-10	-5.08	-0.00599	PASS
					0	1.49	0.00176	PASS
					10	1.66	0.00196	PASS
					20	4.71	0.00555	PASS
					30	-2.57	-0.00303	PASS
					40	-8.61	-0.01015	PASS
					50	24.98	0.02945	PASS
		3	LCH	VN	-30	-1.27	-0.00154	PASS
					-20	1.63	0.00197	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	-1.53	-0.00185	PASS
					0	-1.86	-0.00225	PASS
					10	2.8	0.00339	PASS
					20	-0.14	-0.00017	PASS
					30	1.33	0.00161	PASS
					40	2.72	0.00329	PASS
					50	3.68	0.00446	PASS
			MCH	VN	-30	2.35	0.00281	PASS
					-20	5.72	0.00684	PASS
					-10	-5.22	-0.00624	PASS
					0	-3.65	-0.00436	PASS
					10	4.11	0.00491	PASS
					20	3.69	0.00441	PASS
					30	-2.69	-0.00322	PASS
					40	3.56	0.00426	PASS
					50	3.42	0.00409	PASS
			HCH	VN	-30	2	0.00236	PASS
					-20	1.09	0.00129	PASS
					-10	-0.94	-0.00111	PASS
					0	1.5	0.00177	PASS
					10	0.64	0.00076	PASS
					20	-0.3	-0.00035	PASS
					30	-5.66	-0.00668	PASS
					40	0.63	0.00074	PASS
					50	3.6	0.00425	PASS
		5	LCH	VN	-30	2.05	0.00248	PASS
					-20	1.79	0.00217	PASS
					-10	-3.82	-0.00462	PASS
					0	-1.24	-0.0015	PASS
					10	1.17	0.00142	PASS
					20	2.26	0.00273	PASS
					30	-3.28	-0.00397	PASS
					40	-3.02	-0.00365	PASS
					50	-1.86	-0.00225	PASS
			MCH	VN	-30	-13.92	-0.01664	PASS
					-20	-2.62	-0.00313	PASS
					-10	-3.66	-0.00438	PASS
					0	-6.82	-0.00815	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-2.12	-0.00253	PASS
					20	-6.38	-0.00763	PASS
					30	-14.59	-0.01744	PASS
					40	-4.36	-0.00521	PASS
					50	-12.45	-0.01488	PASS
			HCH	VN	-30	2.12	0.0025	PASS
					-20	-0.54	-0.00064	PASS
					-10	-1.34	-0.00158	PASS
					0	1.04	0.00123	PASS
					10	-3.02	-0.00357	PASS
					20	-4.03	-0.00476	PASS
					30	3.52	0.00416	PASS
					40	1.89	0.00223	PASS
					50	-2.89	-0.00341	PASS
		10	LCH	VN	-30	4.51	0.00544	PASS
					-20	-0.67	-0.00081	PASS
					-10	0.74	0.00089	PASS
					0	3.16	0.00381	PASS
					10	6.28	0.00758	PASS
					20	0.53	0.00064	PASS
					30	4.91	0.00592	PASS
					40	3.3	0.00398	PASS
					50	2.19	0.00264	PASS
			MCH	VN	-30	5.76	0.00689	PASS
					-20	3.06	0.00366	PASS
					-10	3.93	0.0047	PASS
					0	-0.86	-0.00103	PASS
					10	0.44	0.00053	PASS
					20	7.98	0.00954	PASS
					30	-4.46	-0.00533	PASS
					40	11.44	0.01368	PASS
					50	1.07	0.00128	PASS
			HCH	VN	-30	1.39	0.00165	PASS
					-20	2.05	0.00243	PASS
					-10	-0.26	-0.00031	PASS
					0	-0.43	-0.00051	PASS
					10	-0.44	-0.00052	PASS
					20	-1.02	-0.00121	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	1.4			30	-0.07	-0.00008	PASS
					40	-1.47	-0.00174	PASS
					50	0.27	0.00032	PASS
			LCH	VN	-30	-6.77	-0.00821	PASS
					-20	-4.49	-0.00544	PASS
					-10	-2.82	-0.00342	PASS
					0	-5.68	-0.00689	PASS
					10	3.22	0.0039	PASS
					20	3.16	0.00383	PASS
					30	-1.99	-0.00241	PASS
					40	2.57	0.00312	PASS
					50	-9.54	-0.01157	PASS
			MCH	VN	-30	-17.54	-0.02097	PASS
					-20	-10.11	-0.01209	PASS
					-10	4.62	0.00552	PASS
					0	-6.19	-0.0074	PASS
					10	10.57	0.01264	PASS
					20	9.26	0.01107	PASS
					30	-20.01	-0.02392	PASS
					40	10.2	0.01219	PASS
					50	-24.08	-0.02879	PASS
			HCH	VN	-30	7	0.00825	PASS
					-20	3.32	0.00391	PASS
					-10	8.53	0.01006	PASS
					0	-40.7	-0.04798	PASS
					10	-14.83	-0.01748	PASS
					20	-0.11	-0.00013	PASS
					30	-4.19	-0.00494	PASS
					40	11.86	0.01398	PASS
					50	24.75	0.02918	PASS
		3	LCH	VN	-30	-7.61	-0.00922	PASS
					-20	3.09	0.00374	PASS
					-10	1.54	0.00187	PASS
					0	3.36	0.00407	PASS
					10	-3.98	-0.00482	PASS
					20	-1.27	-0.00154	PASS
					30	0.76	0.00092	PASS
					40	0.69	0.00084	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	VN	50	-7.64	-0.00925	PASS
					-30	0.5	0.0006	PASS
					-20	-2.06	-0.00246	PASS
					-10	-0.57	-0.00068	PASS
					0	-0.51	-0.00061	PASS
					10	0.01	0.00001	PASS
					20	3.91	0.00467	PASS
					30	2.37	0.00283	PASS
					40	-0.33	-0.00039	PASS
					50	3.46	0.00414	PASS
			HCH	VN	-30	1.14	0.00135	PASS
					-20	0.73	0.00086	PASS
					-10	-0.51	-0.0006	PASS
					0	-0.24	-0.00028	PASS
					10	-0.5	-0.00059	PASS
					20	-2.88	-0.0034	PASS
					30	-0.07	-0.00008	PASS
					40	0.51	0.0006	PASS
					50	-3.55	-0.00419	PASS
		5	LCH	VN	-30	-3.75	-0.00454	PASS
					-20	-2.19	-0.00265	PASS
					-10	2.89	0.0035	PASS
					0	-0.54	-0.00065	PASS
					10	-5.11	-0.00618	PASS
					20	-2.37	-0.00287	PASS
					30	-1.67	-0.00202	PASS
					40	-1.67	-0.00202	PASS
					50	0.37	0.00045	PASS
			MCH	VN	-30	-1.59	-0.0019	PASS
					-20	-9.61	-0.01149	PASS
					-10	-6.45	-0.00771	PASS
					0	-6.71	-0.00802	PASS
					10	-20.54	-0.02455	PASS
					20	-12.09	-0.01445	PASS
					30	-21.77	-0.02603	PASS
					40	-16.67	-0.01993	PASS
					50	-9.66	-0.01155	PASS
			HCH	VN	-30	-0.5	-0.00059	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-1.33	-0.00157	PASS
					-10	0.34	0.0004	PASS
					0	-0.67	-0.00079	PASS
					10	-3.09	-0.00365	PASS
					20	0.13	0.00015	PASS
					30	-2.09	-0.00247	PASS
					40	-1.67	-0.00197	PASS
					50	-0.49	-0.00058	PASS
		10	LCH	VN	-30	4.38	0.00528	PASS
					-20	3.96	0.00478	PASS
					-10	-3.66	-0.00441	PASS
					0	2.76	0.00333	PASS
					10	4.63	0.00559	PASS
					20	-0.37	-0.00045	PASS
					30	3.58	0.00432	PASS
					40	5.38	0.00649	PASS
					50	6.51	0.00785	PASS
			MCH	VN	-30	5.62	0.00672	PASS
					-20	-6.15	-0.00735	PASS
					-10	-2.43	-0.0029	PASS
					0	5.06	0.00605	PASS
					10	5.01	0.00599	PASS
					20	6.14	0.00734	PASS
					30	5.82	0.00696	PASS
					40	10.5	0.01255	PASS
					50	7.14	0.00854	PASS
			HCH	VN	-30	-0.01	-0.00001	PASS
					-20	0.13	0.00015	PASS
					-10	0.82	0.00097	PASS
					0	-2.36	-0.0028	PASS
					10	0.31	0.00037	PASS
					20	-0.5	-0.00059	PASS
					30	-1.63	-0.00193	PASS
					40	-1.89	-0.00224	PASS
					50	-0.92	-0.00109	PASS

END