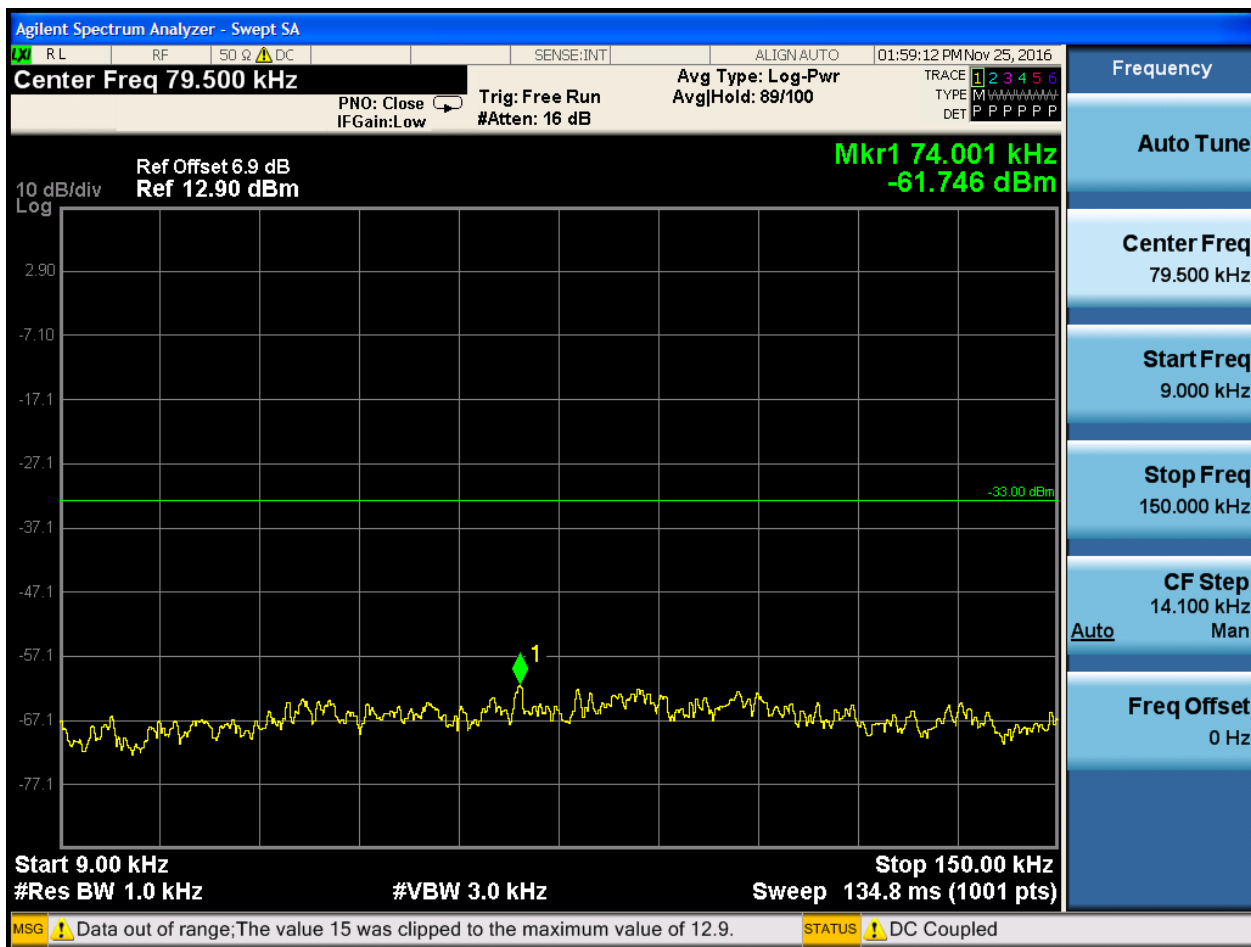
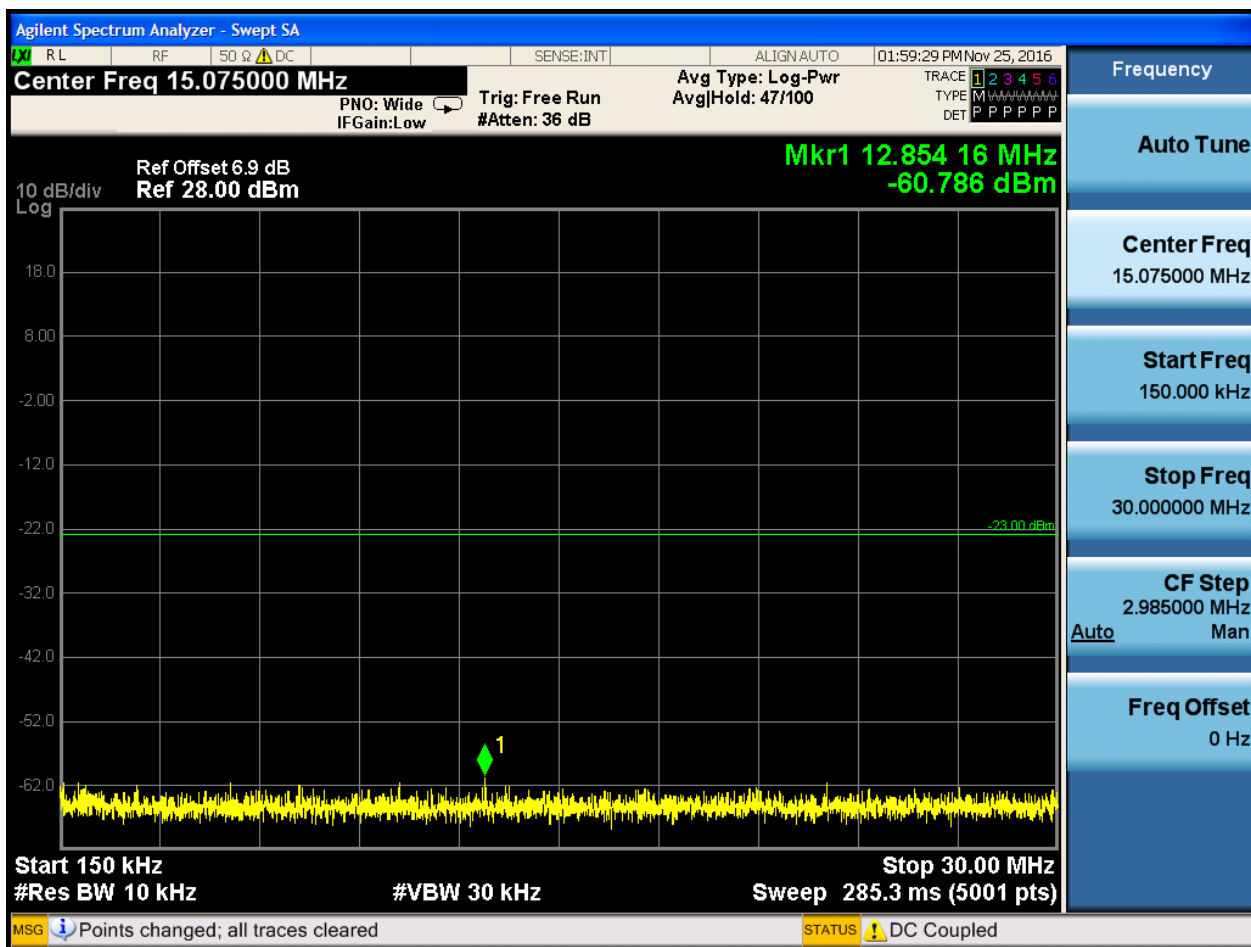
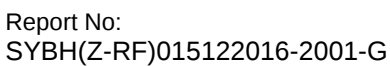




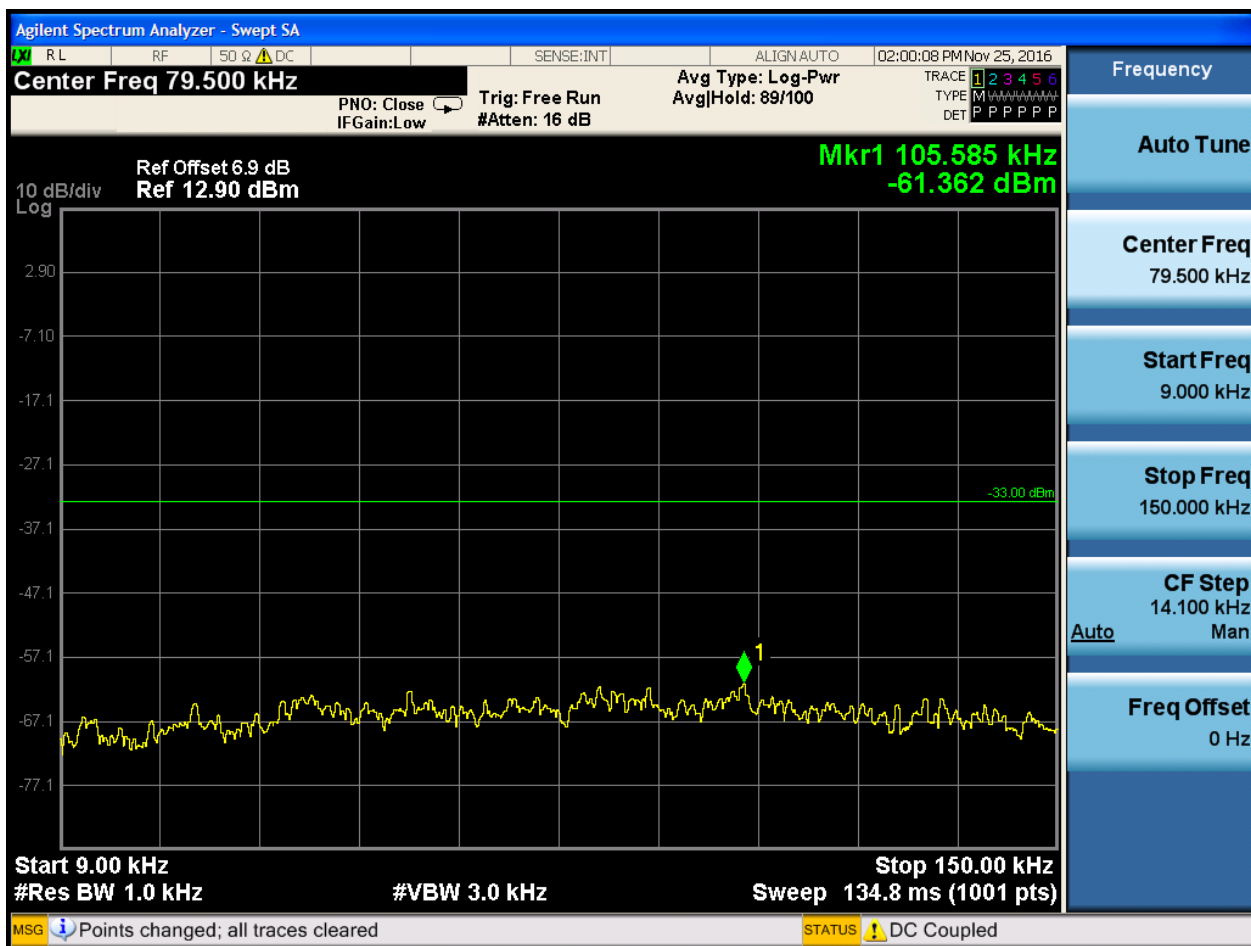


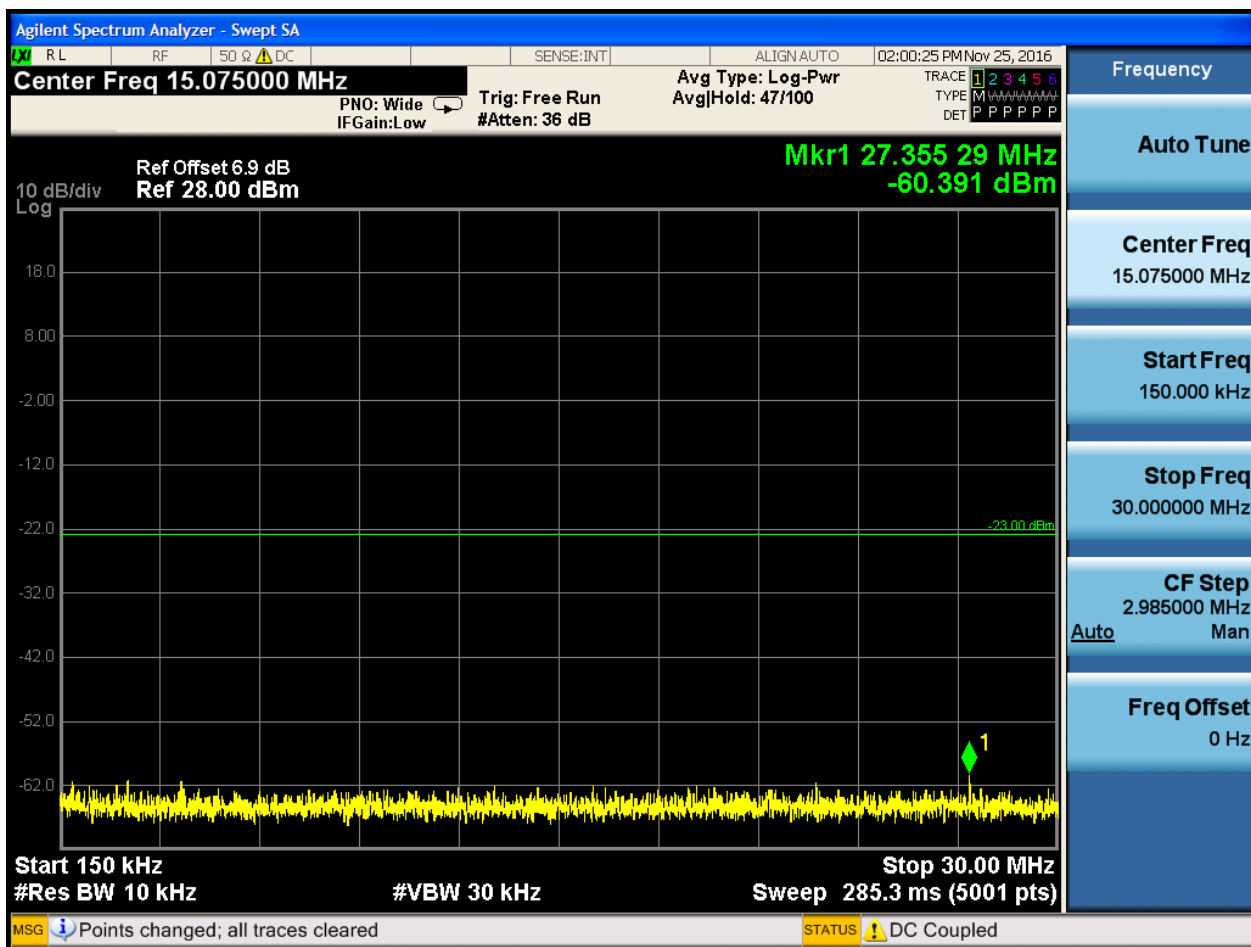


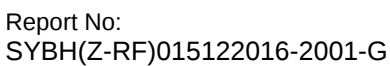


6.3.1.1.1.2 Test Channel = MCH

6.3.1.1.1.2.1 Test RB = RB1#0



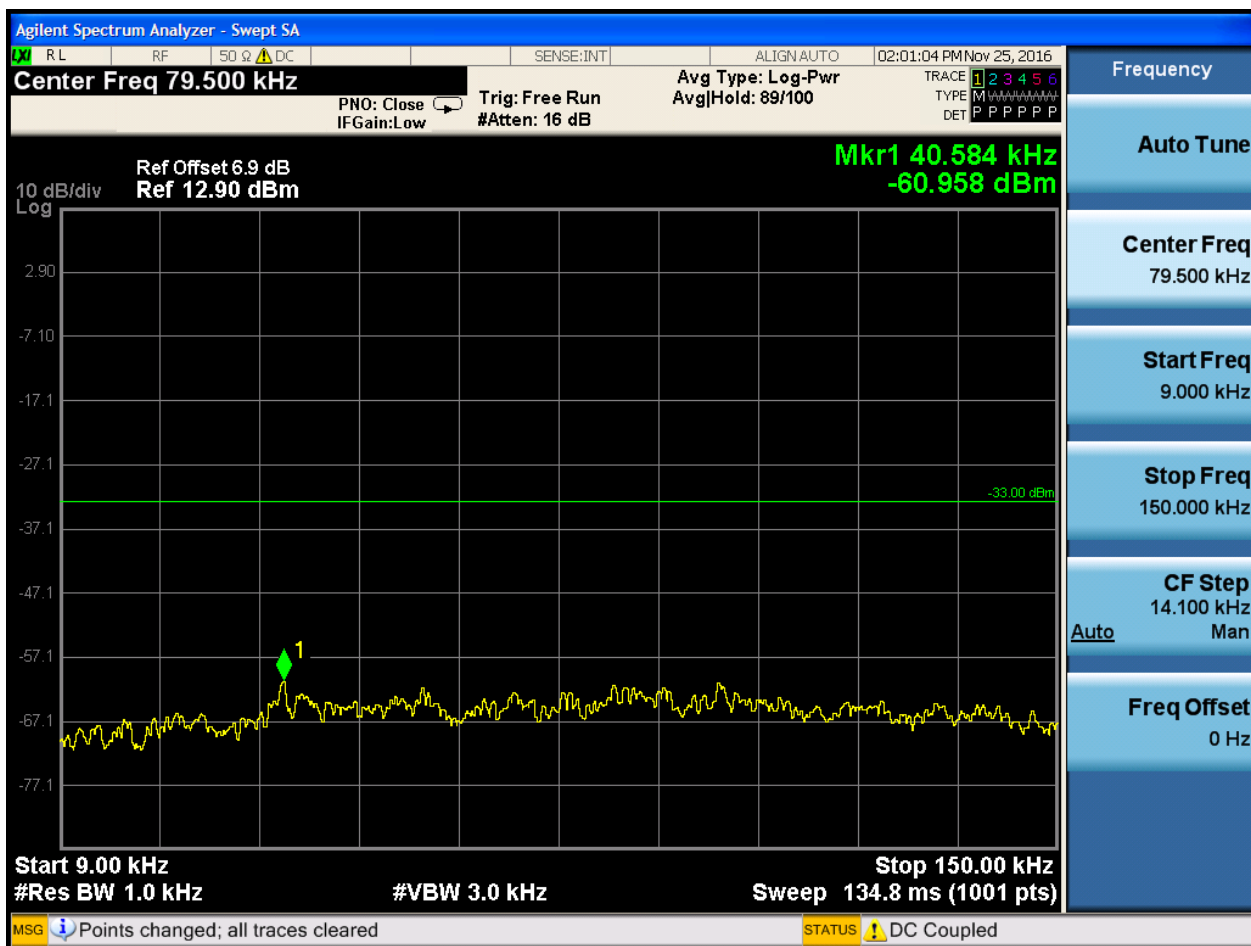


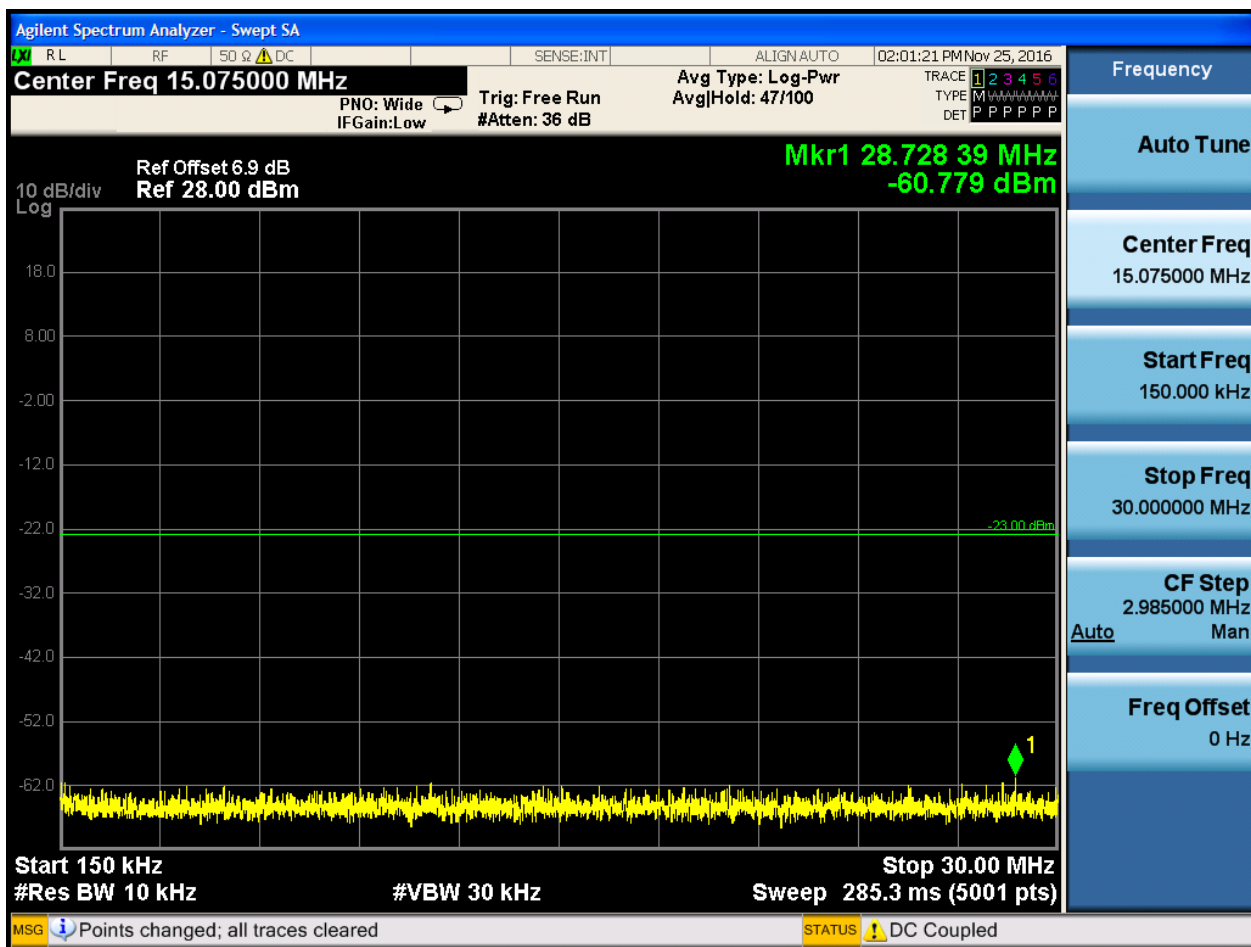


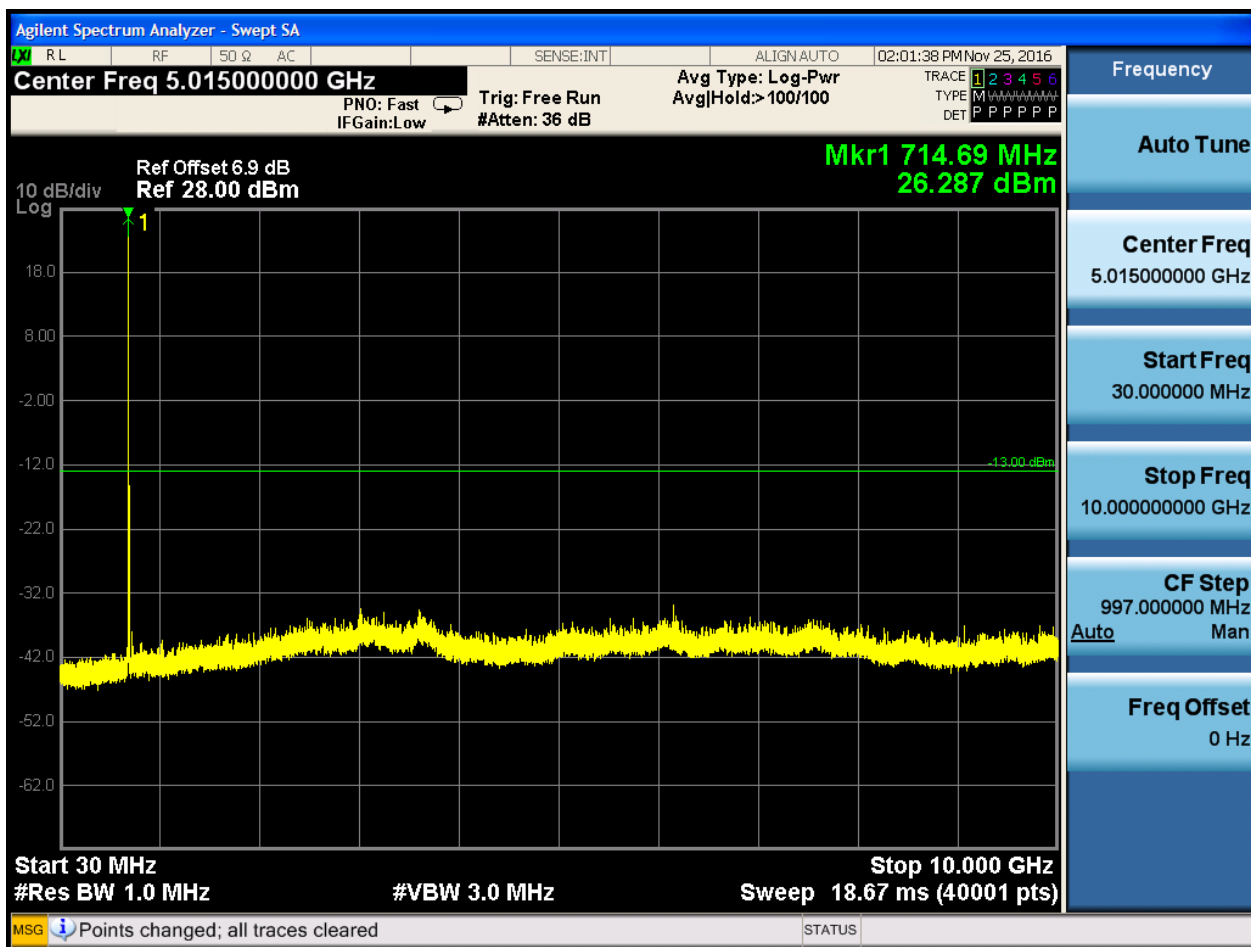


6.3.1.1.1.3 Test Channel = HCH

6.3.1.1.1.3.1 Test RB = RB1#0



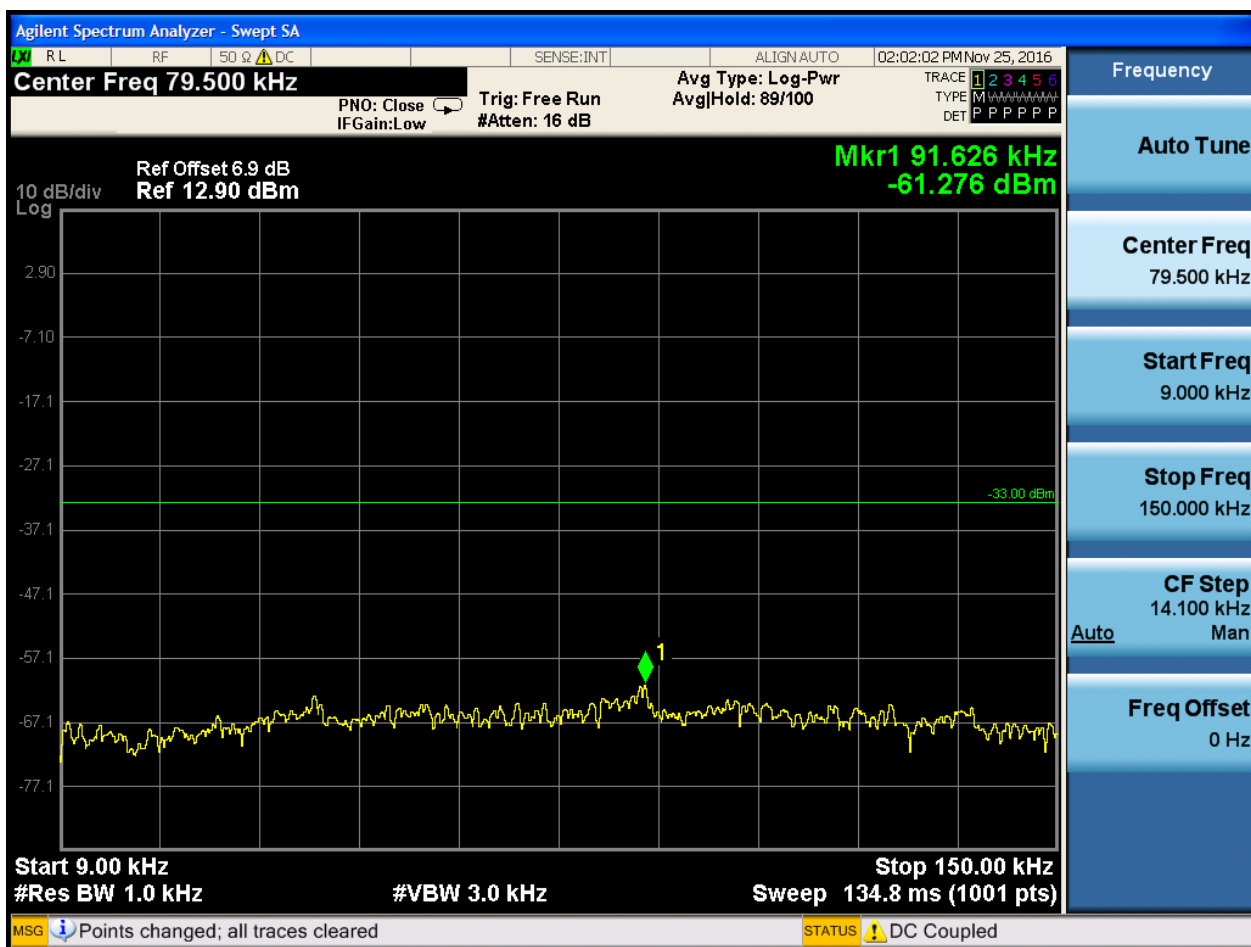


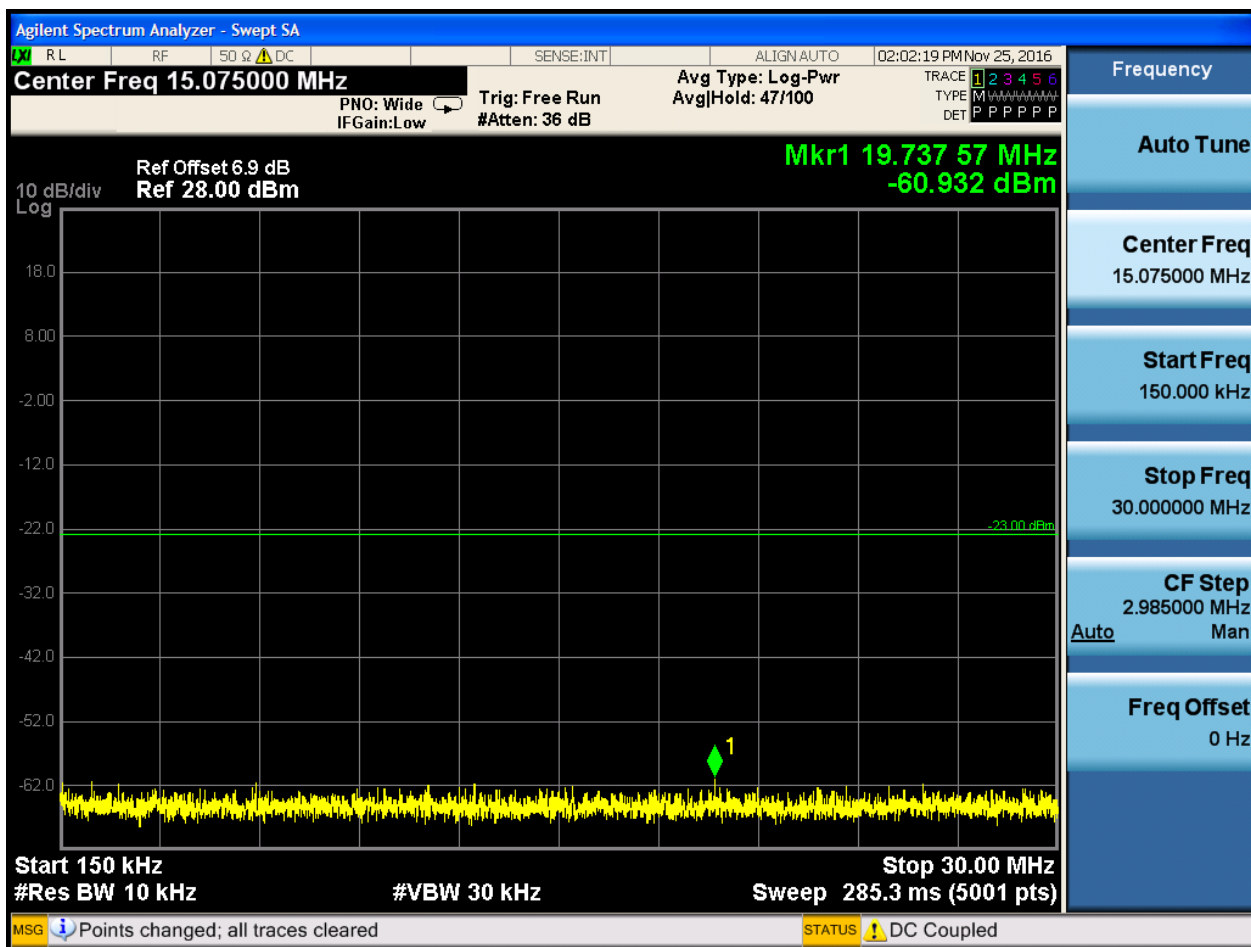


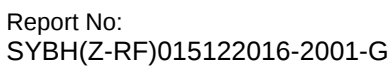
6.3.1.1.2 Test Bandwidth = 3

6.3.1.1.2.1 Test Channel = LCH

6.3.1.1.2.1.1 Test RB = RB1#0



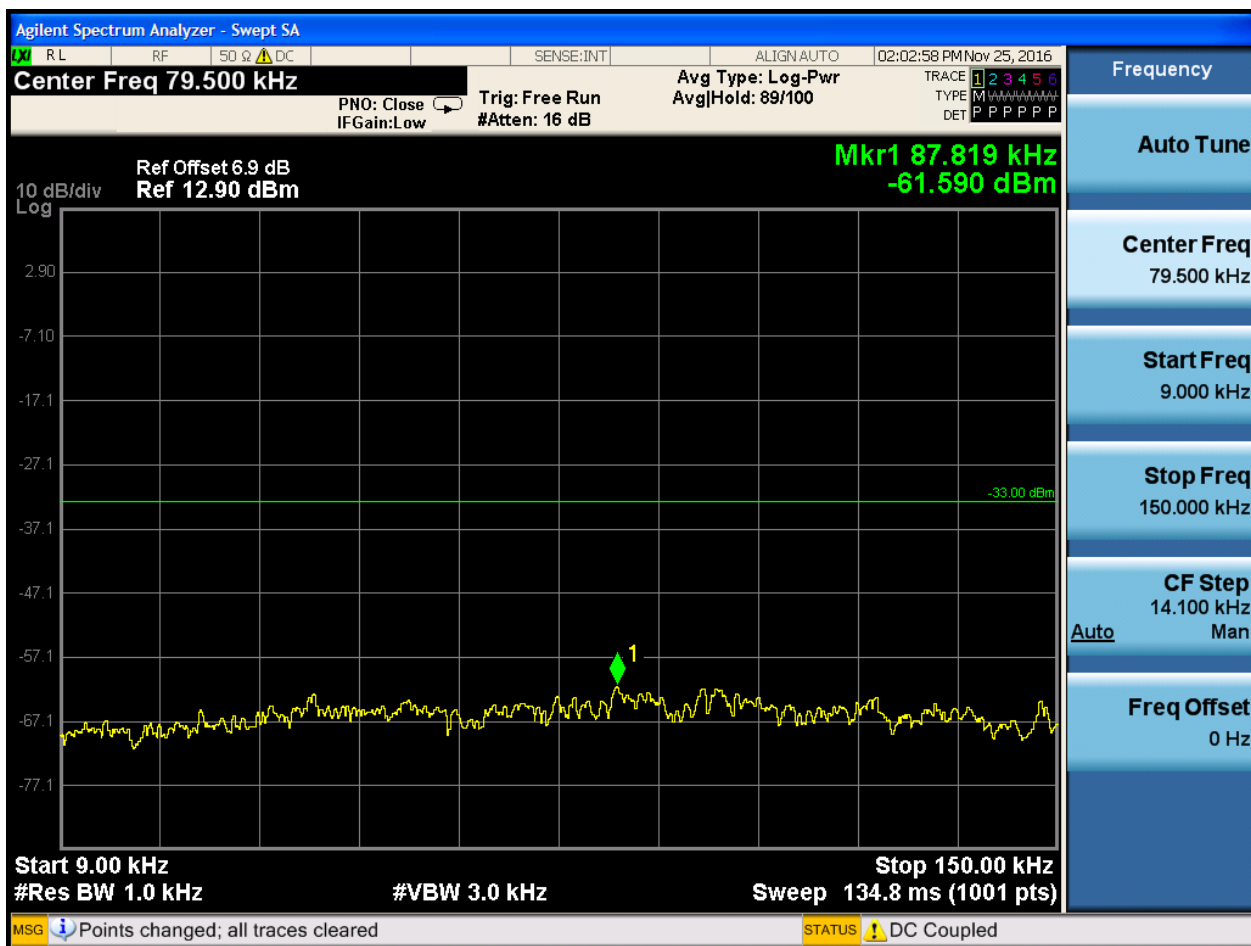


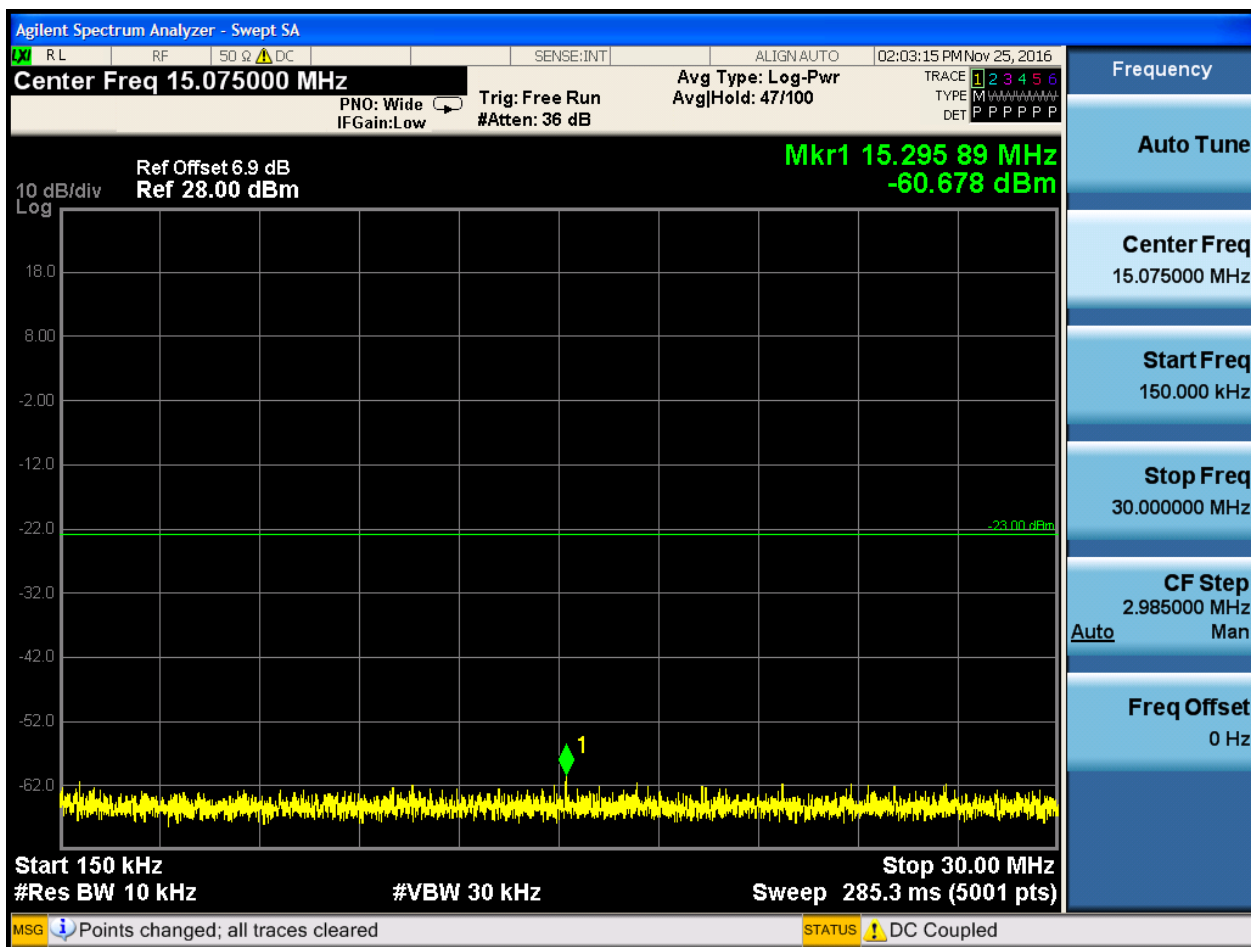


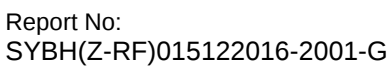


6.3.1.1.2.2 Test Channel = MCH

6.3.1.1.2.2.1 Test RB = RB1#0



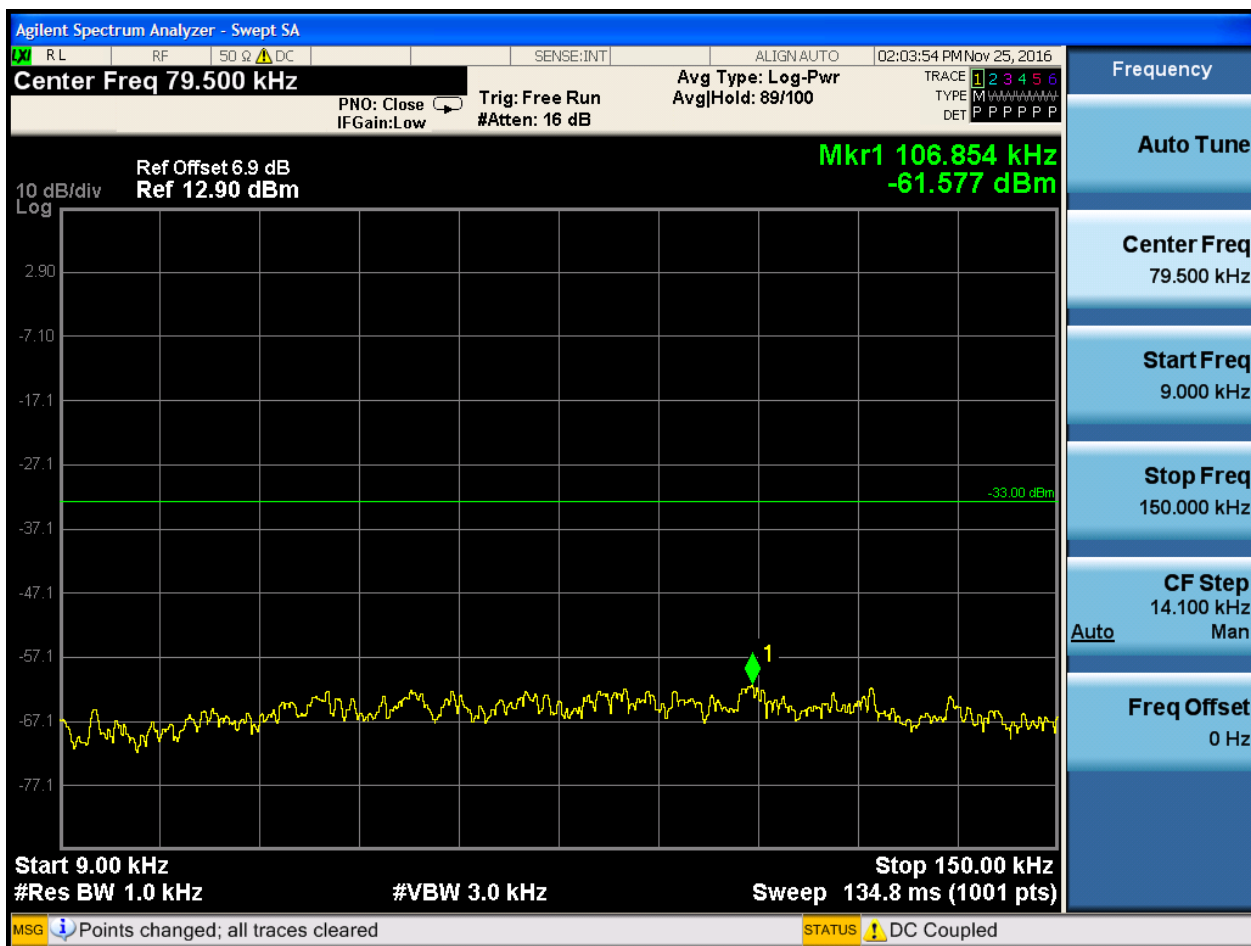


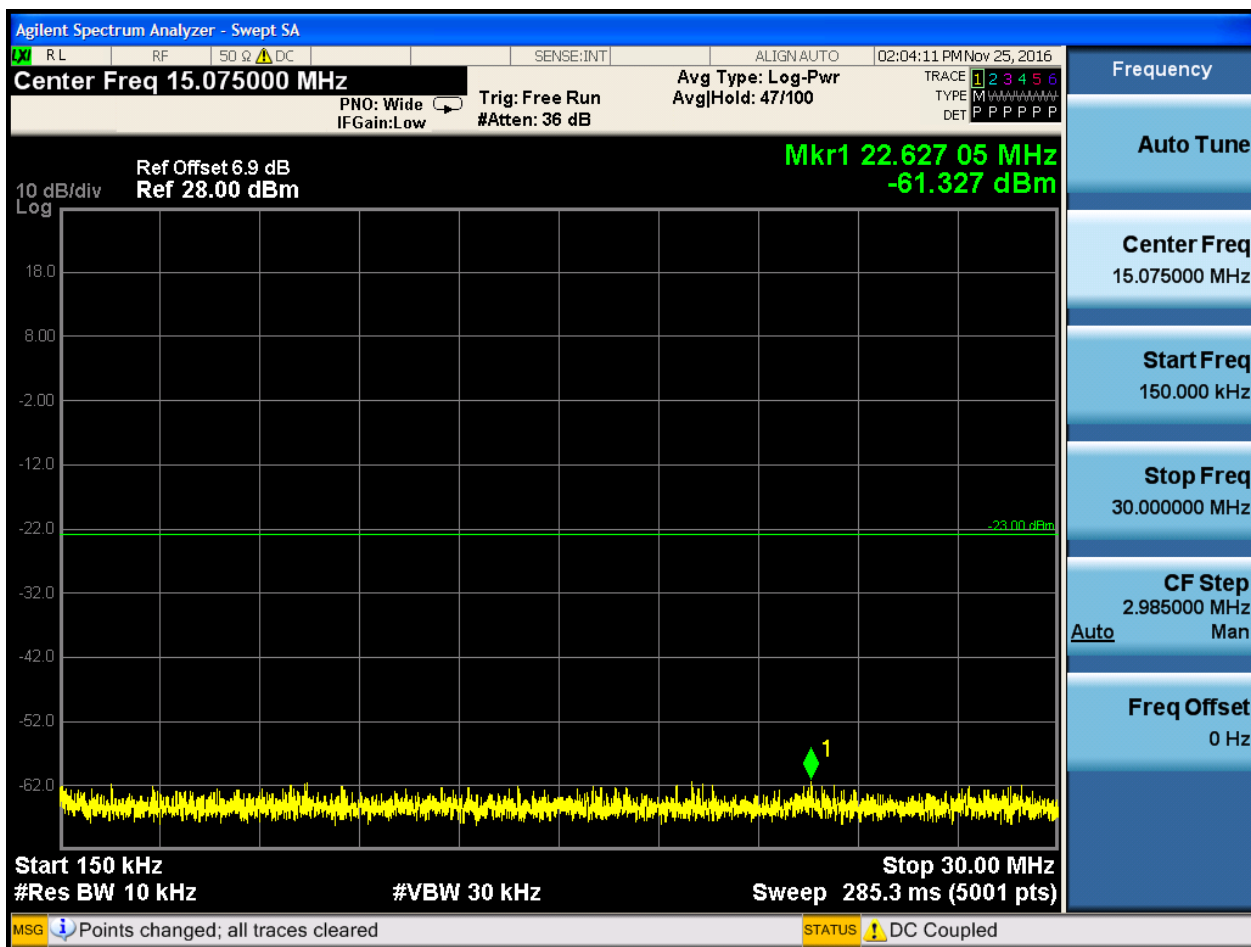


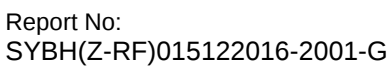


6.3.1.1.2.3 Test Channel = HCH

6.3.1.1.2.3.1 Test RB = RB1#0





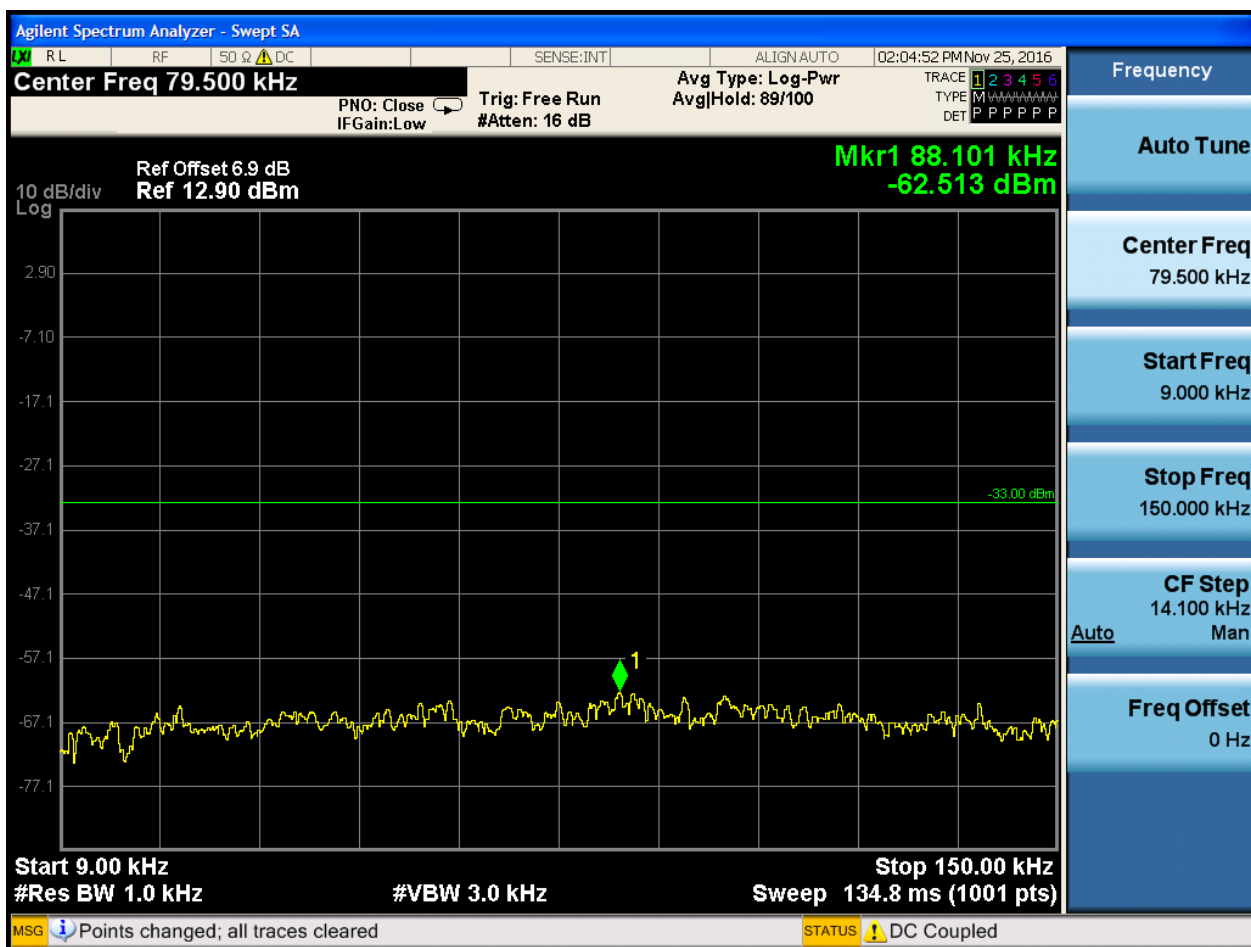


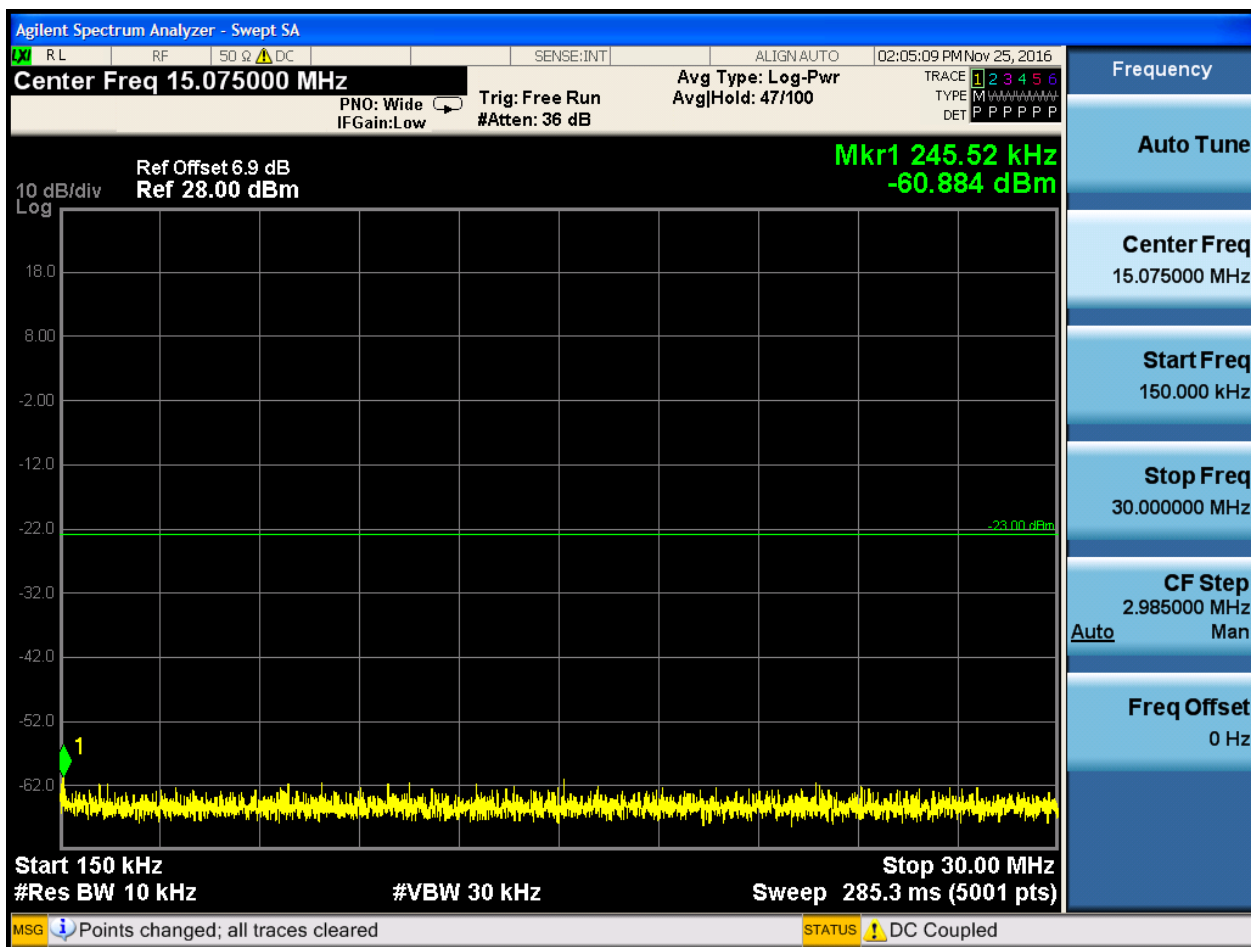


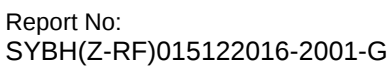
6.3.1.1.3 Test Bandwidth = 5

6.3.1.1.3.1 Test Channel = LCH

6.3.1.1.3.1.1 Test RB = RB1#0



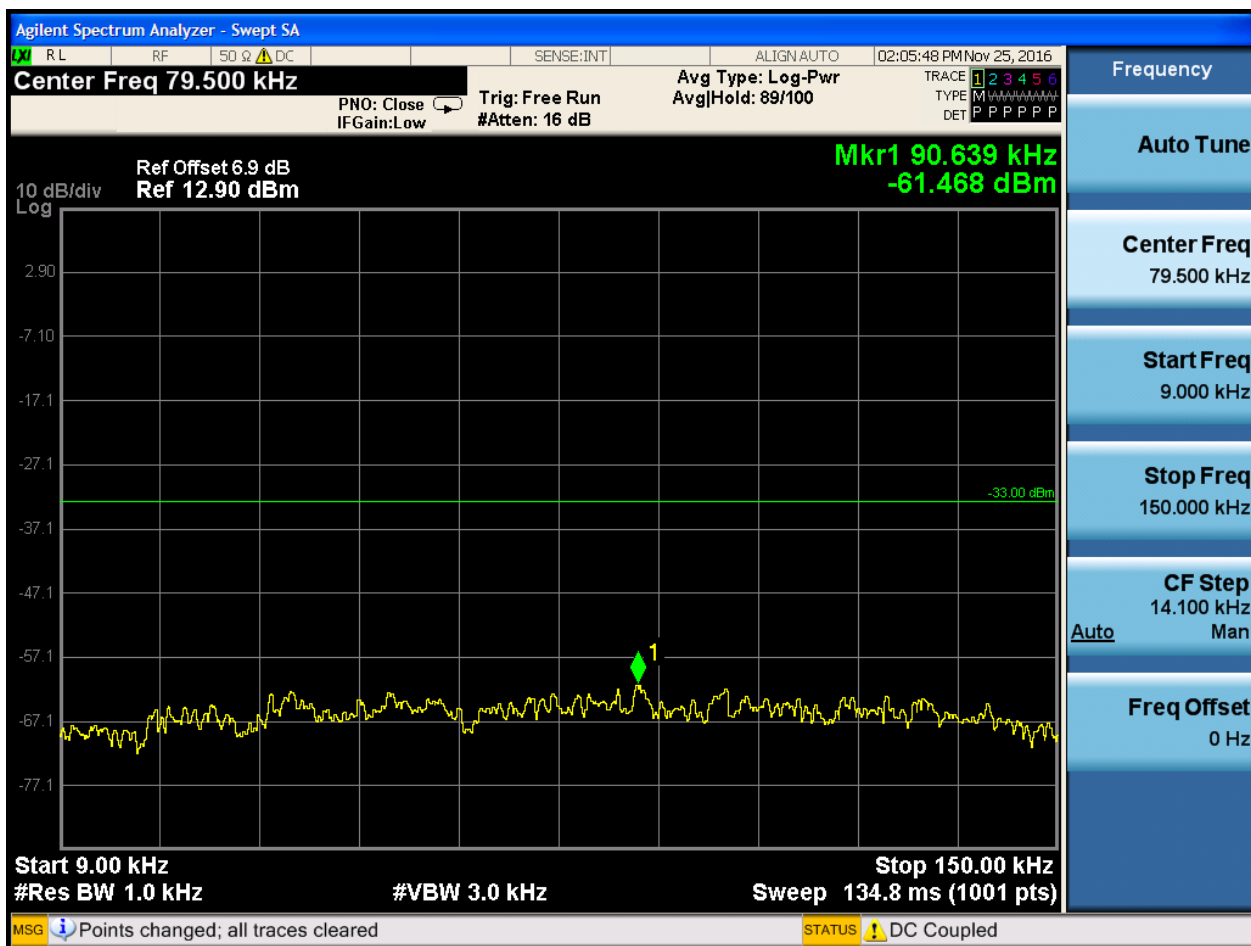


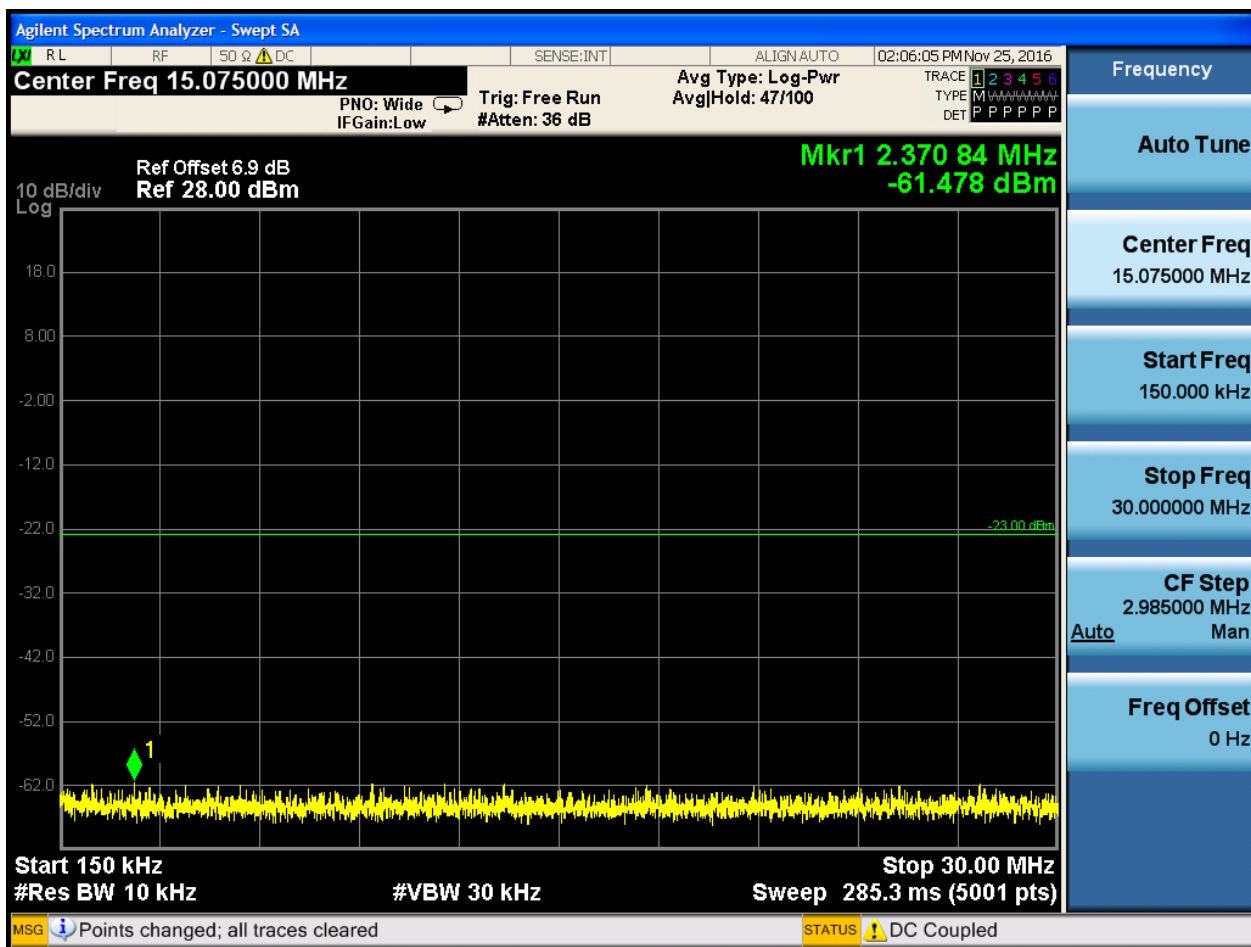


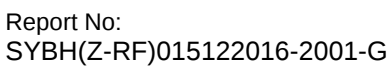


6.3.1.1.3.2 Test Channel = MCH

6.3.1.1.3.2.1 Test RB = RB1#0



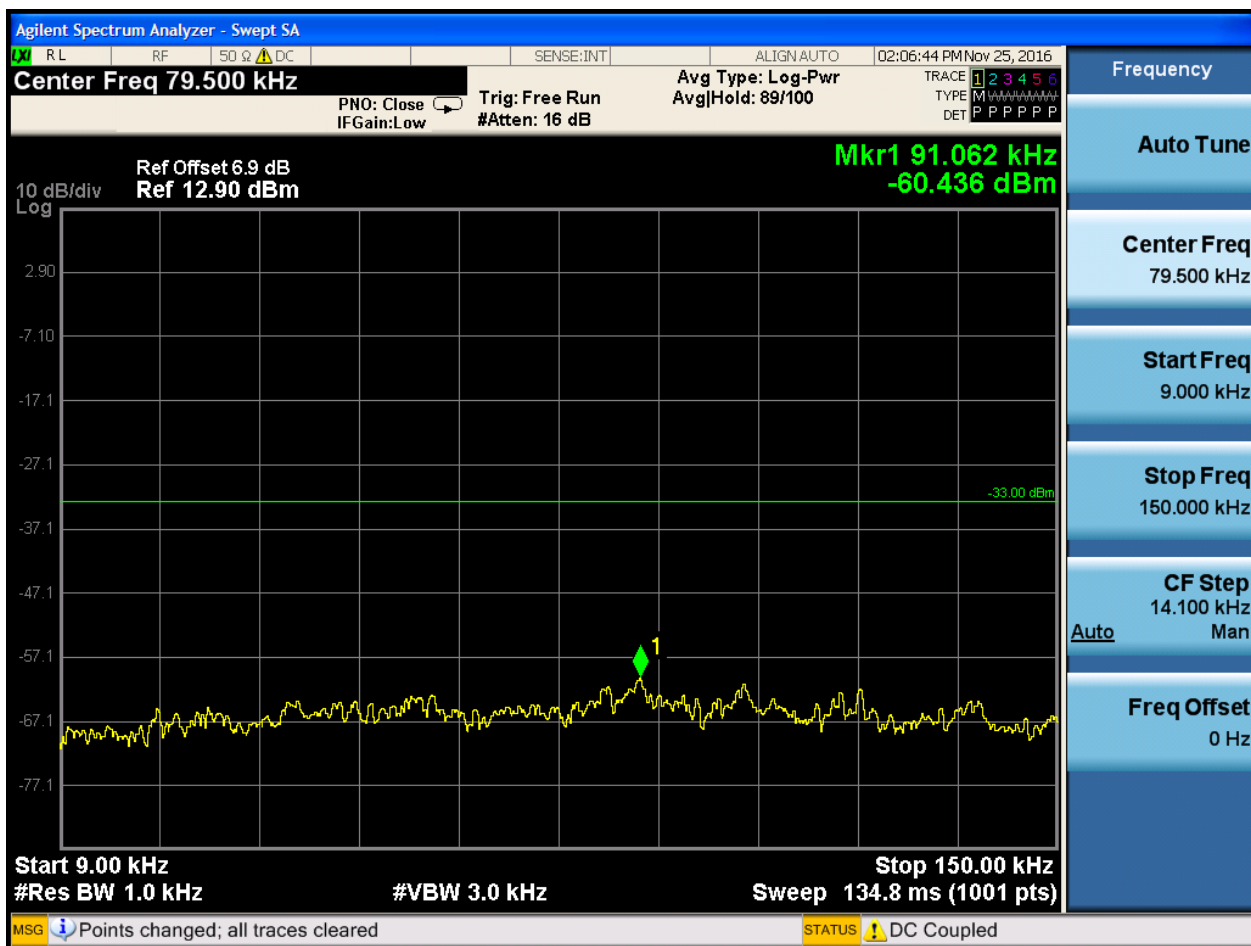


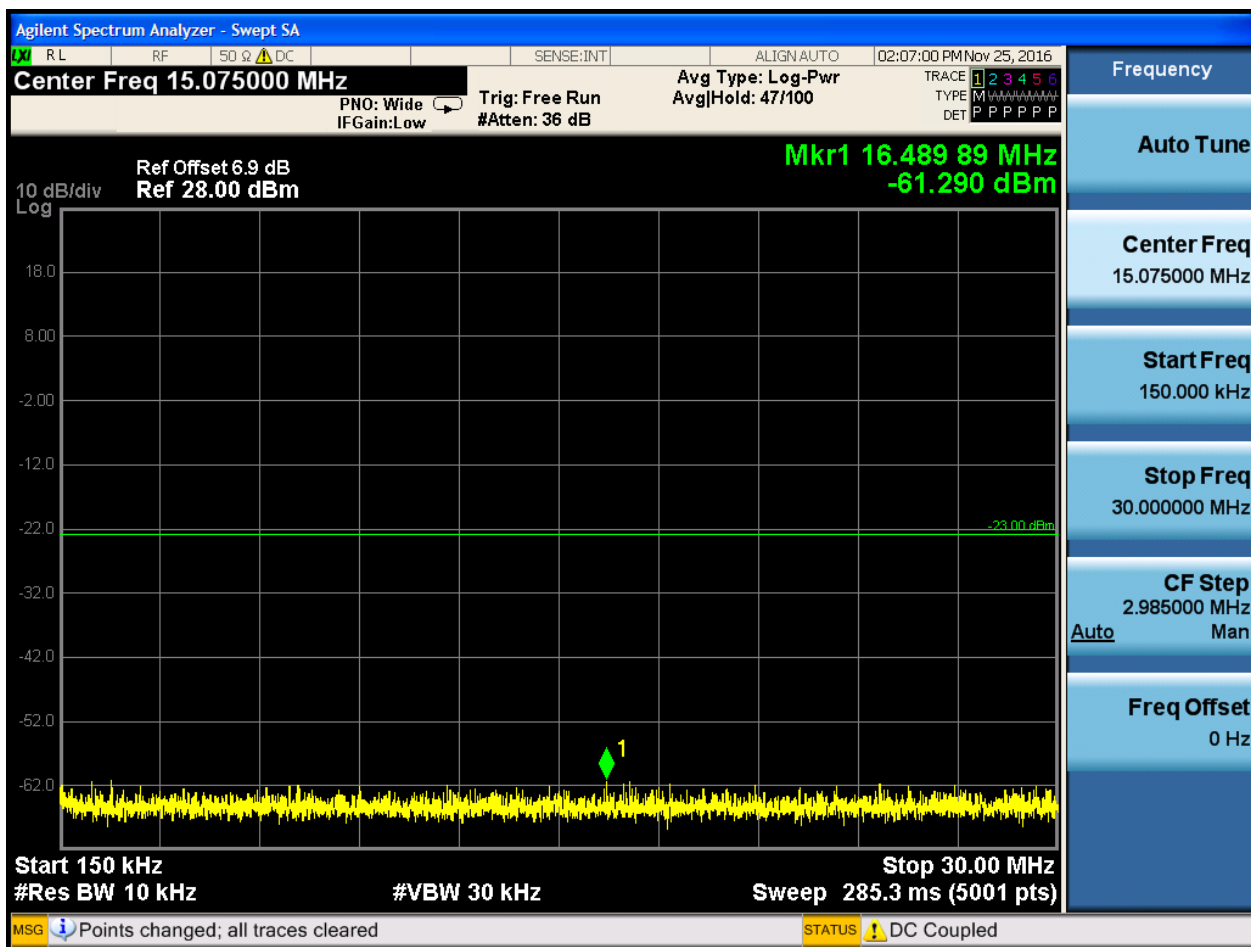


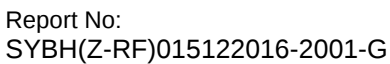


6.3.1.1.3.3 Test Channel = HCH

6.3.1.1.3.3.1 Test RB = RB1#0



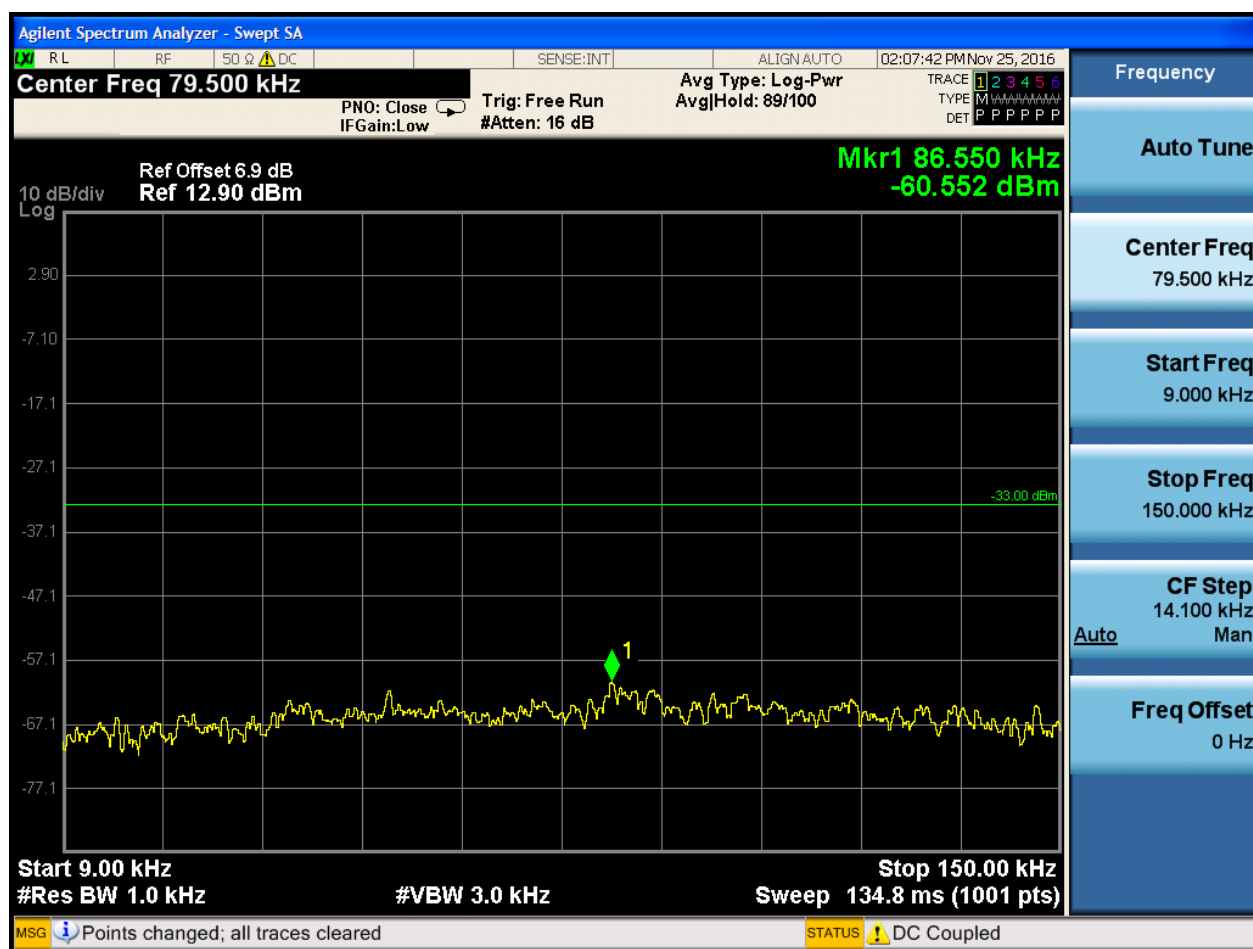


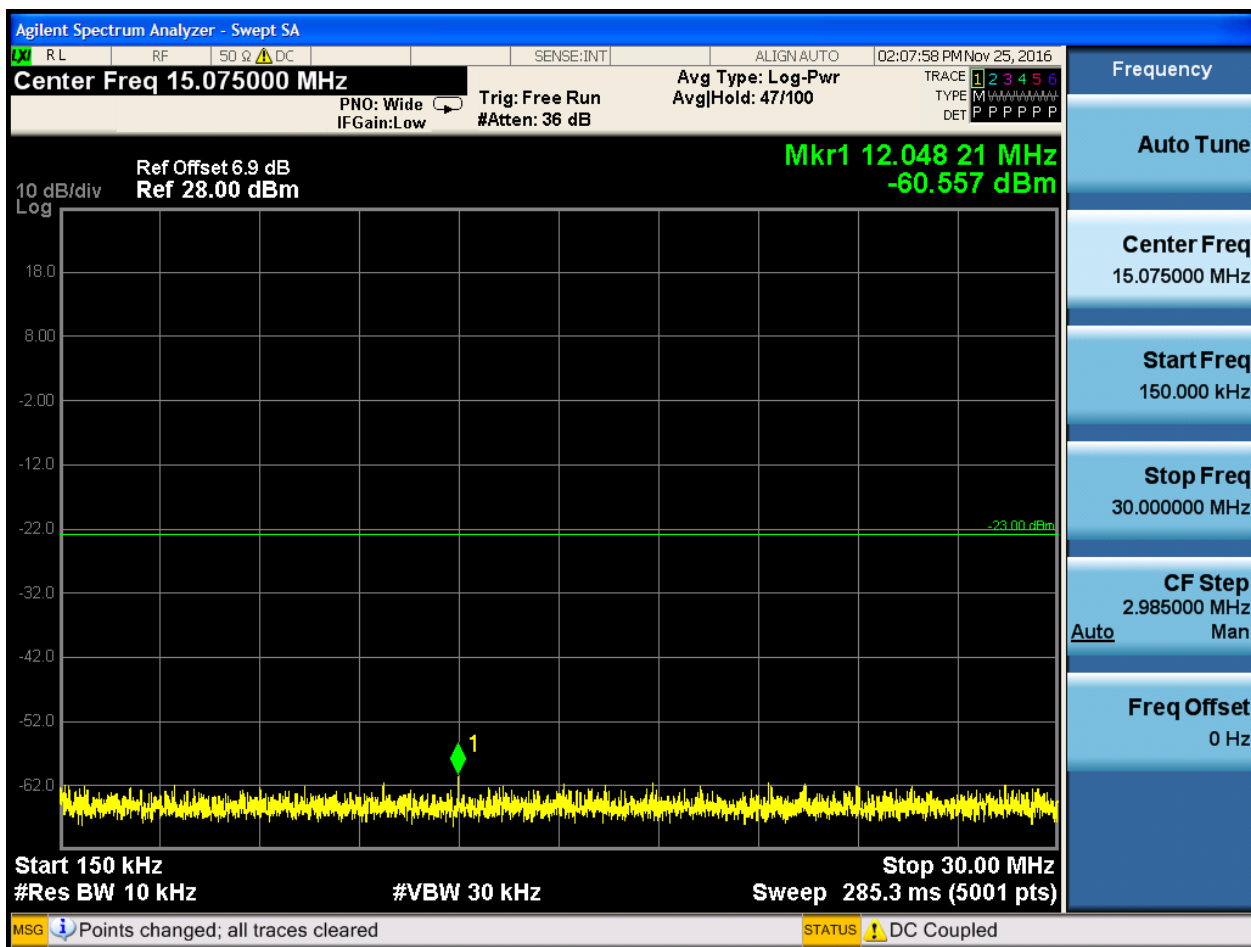


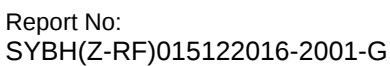
6.3.1.1.4 Test Bandwidth = 10

6.3.1.1.4.1 Test Channel = LCH

6.3.1.1.4.1.1 Test RB = RB1#0

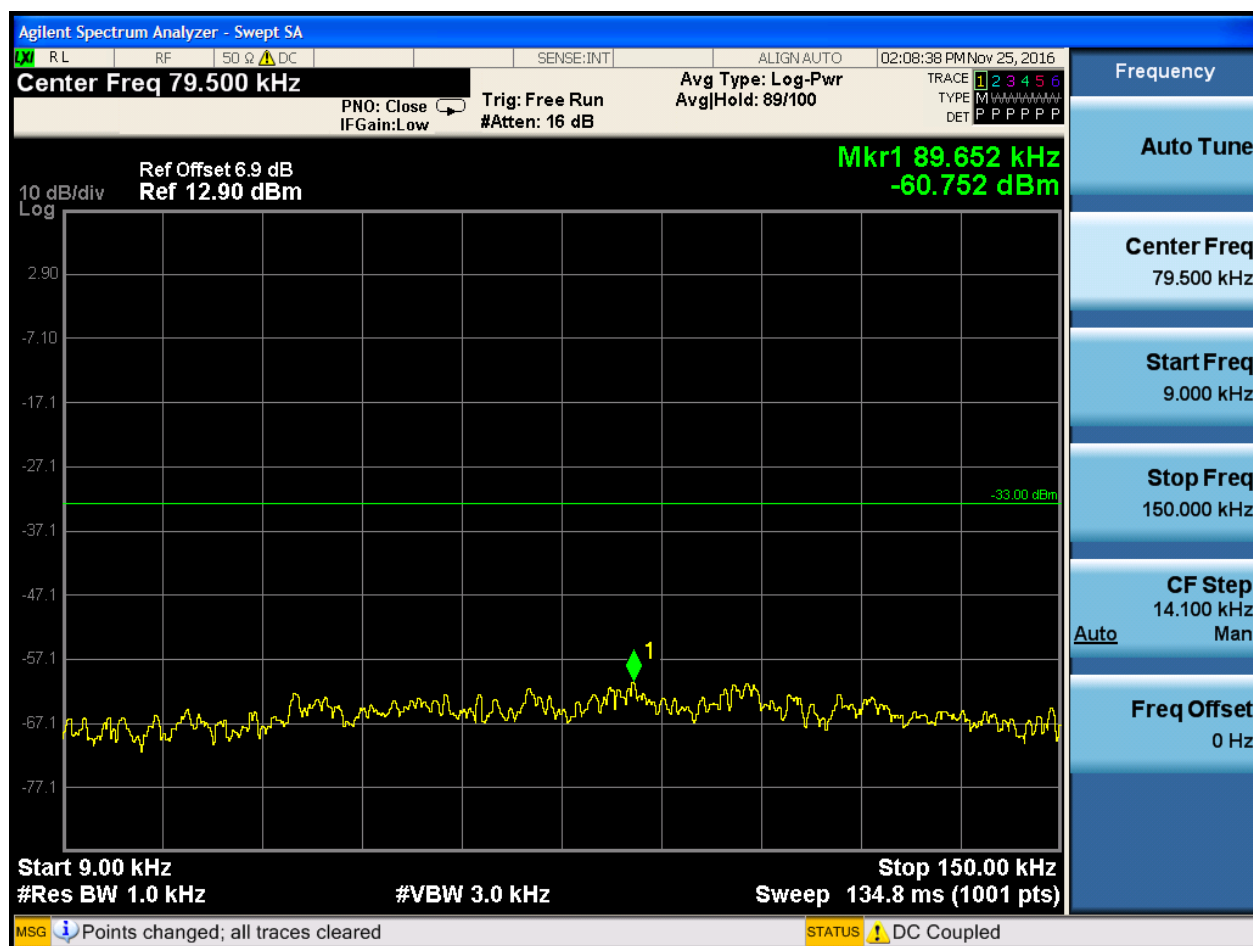


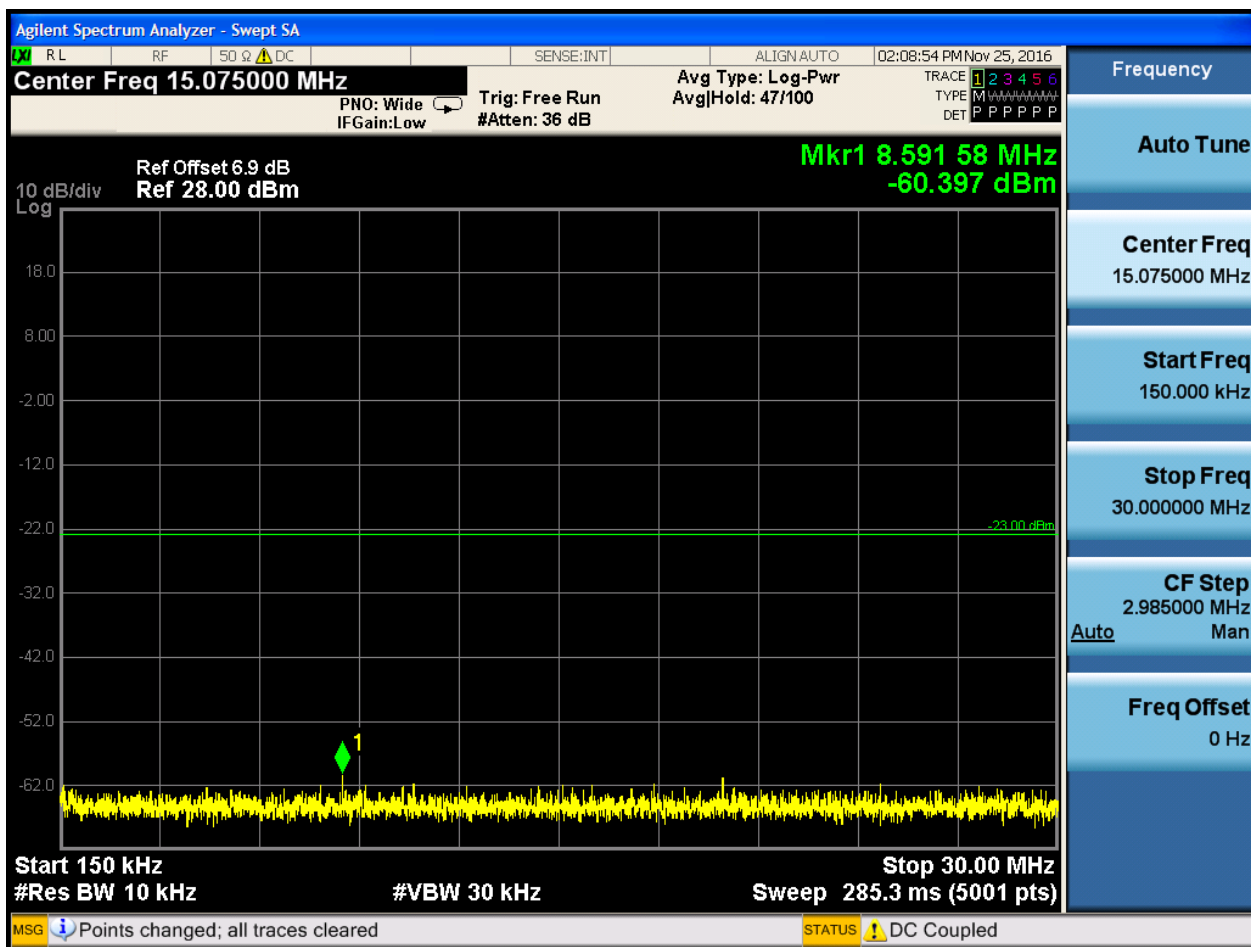


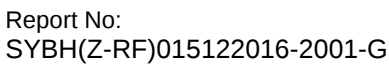


6.3.1.1.4.2 Test Channel = MCH

6.3.1.1.4.2.1 Test RB = RB1#0



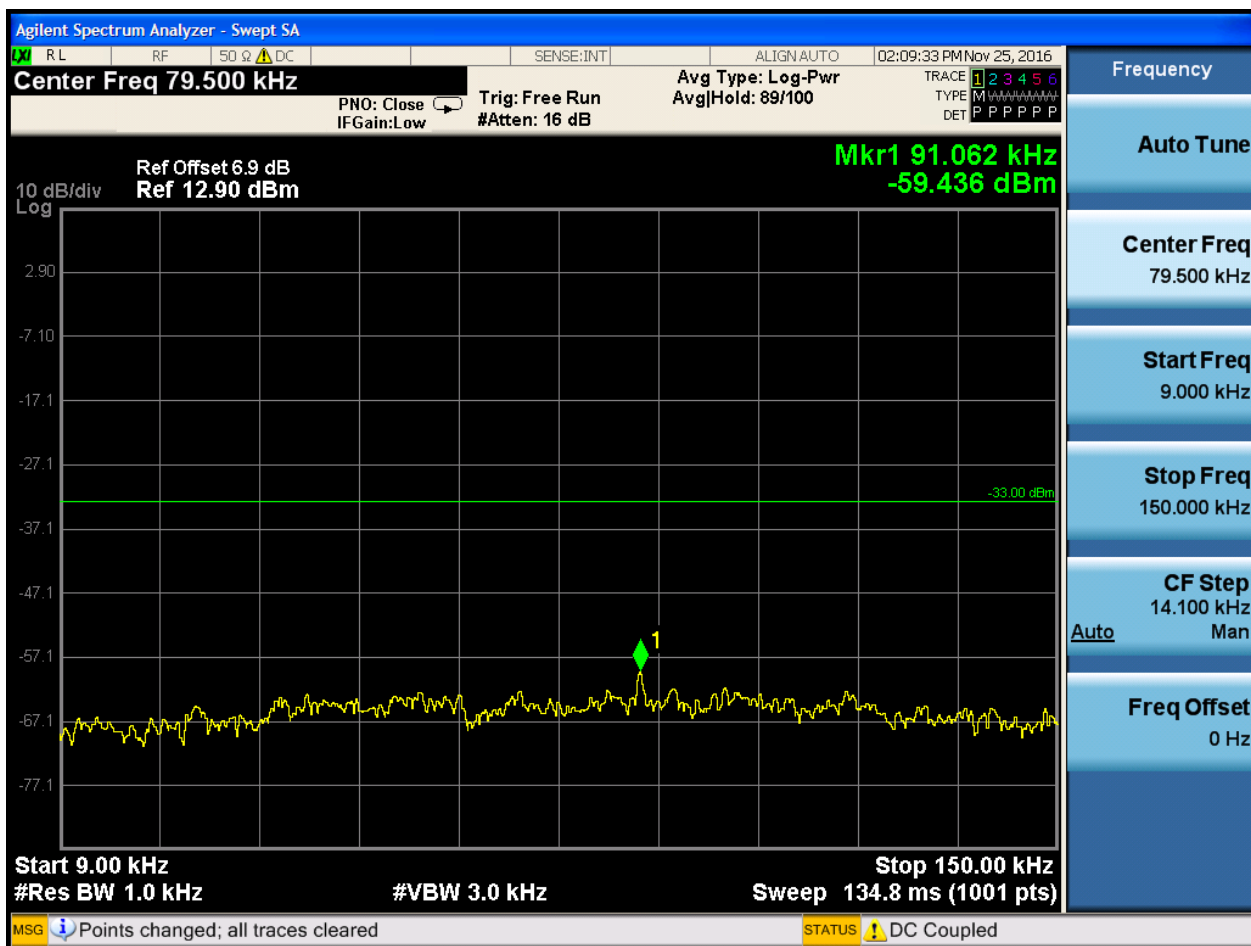


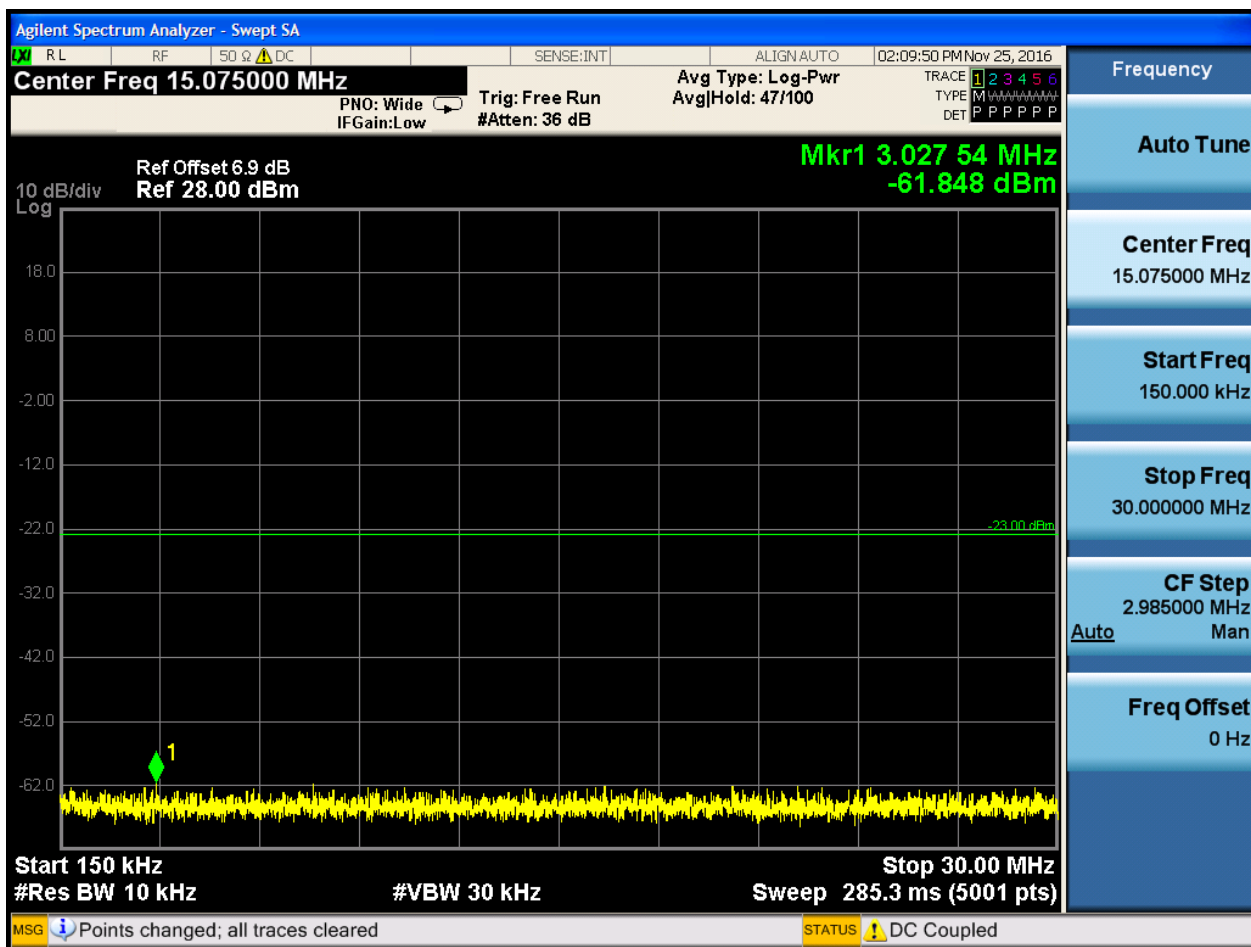


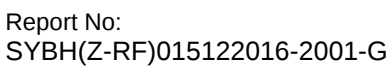


6.3.1.1.4.3 Test Channel = HCH

6.3.1.1.4.3.1 Test RB = RB1#0







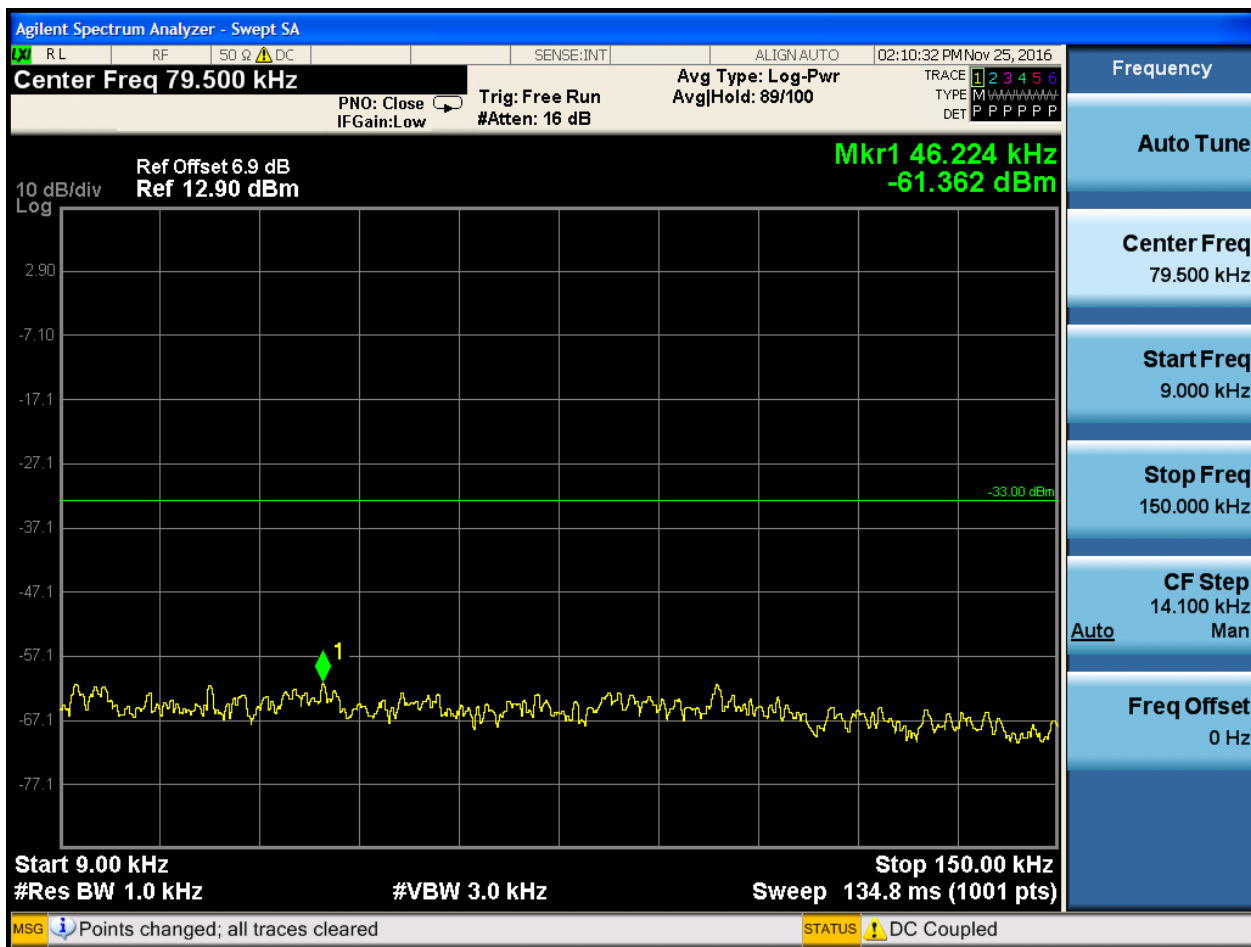


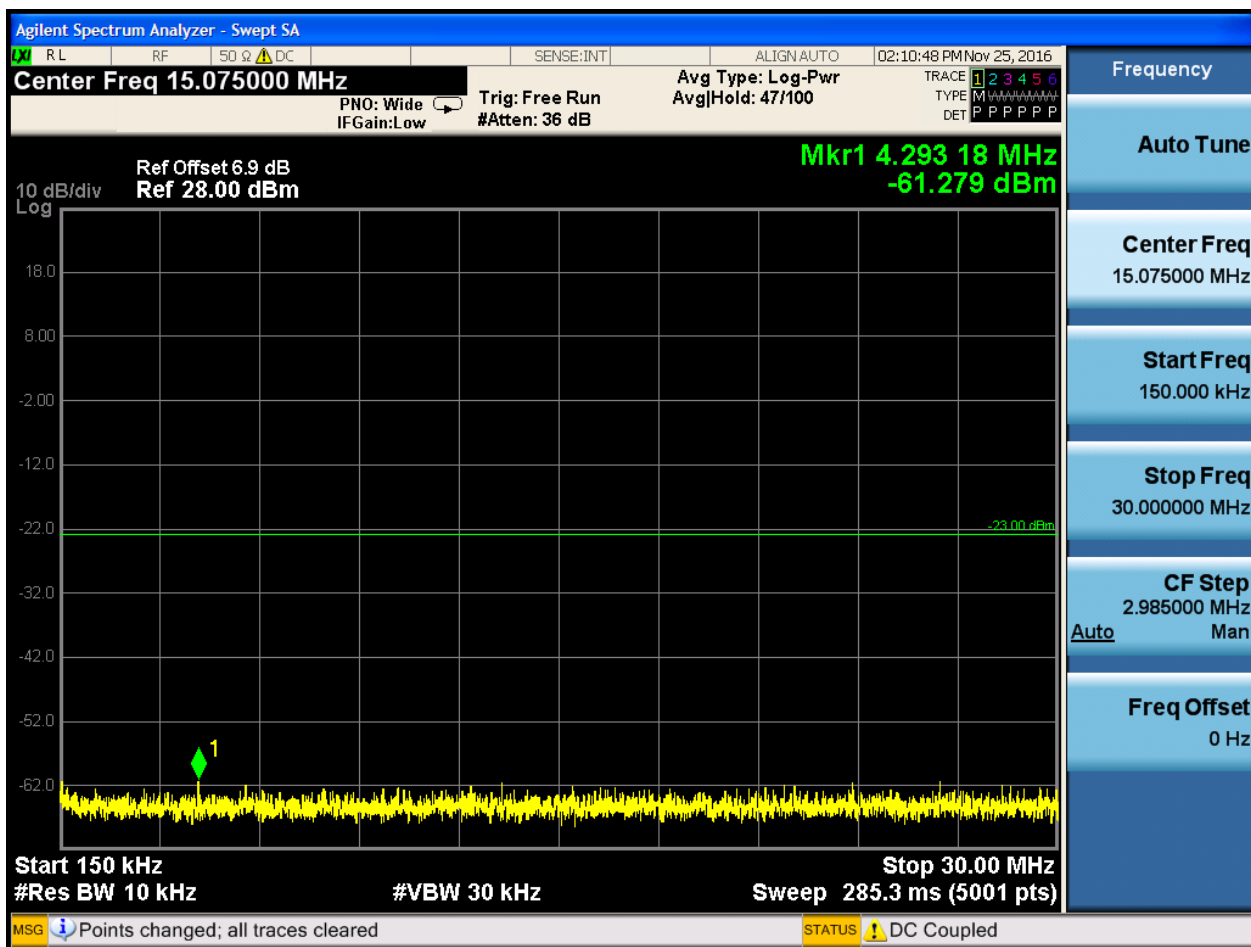
6.3.1.2 Test Mode = LTE/TM2

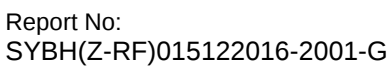
6.3.1.2.1 Test Bandwidth = 1.4

6.3.1.2.1.1 Test Channel = LCH

6.3.1.2.1.1.1 Test RB = RB1#0



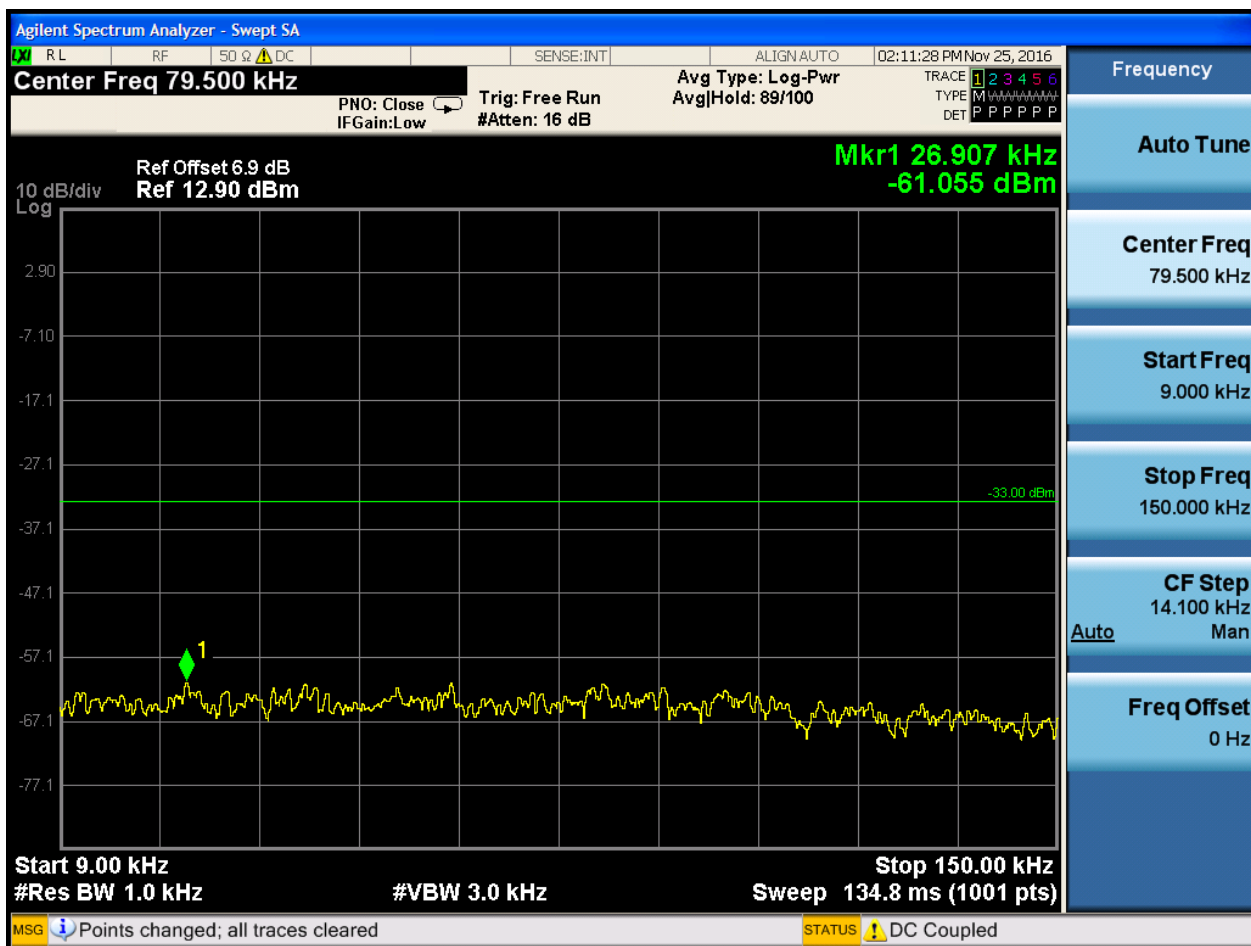


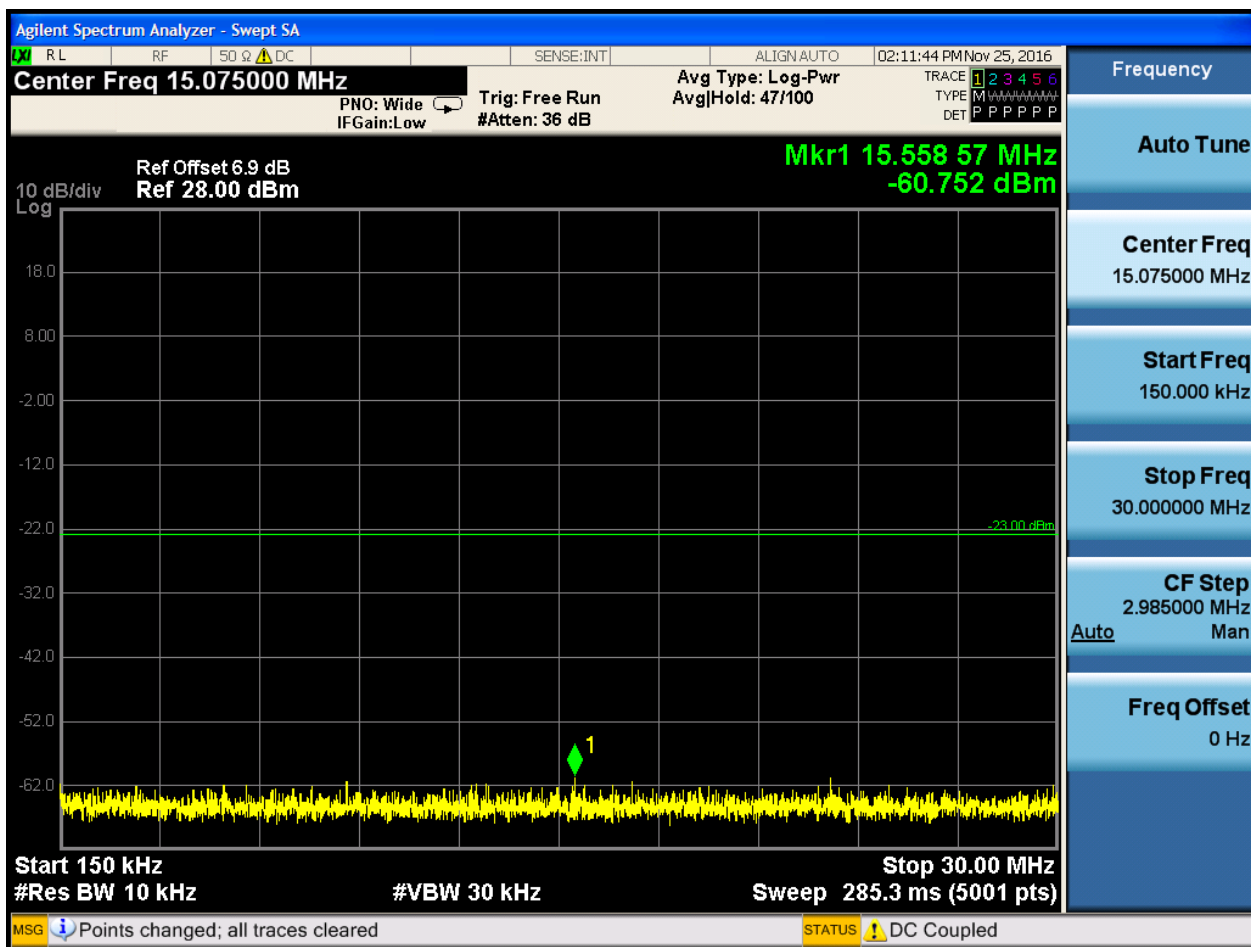


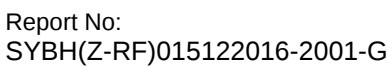


6.3.1.2.1.2 Test Channel = MCH

6.3.1.2.1.2.1 Test RB = RB1#0



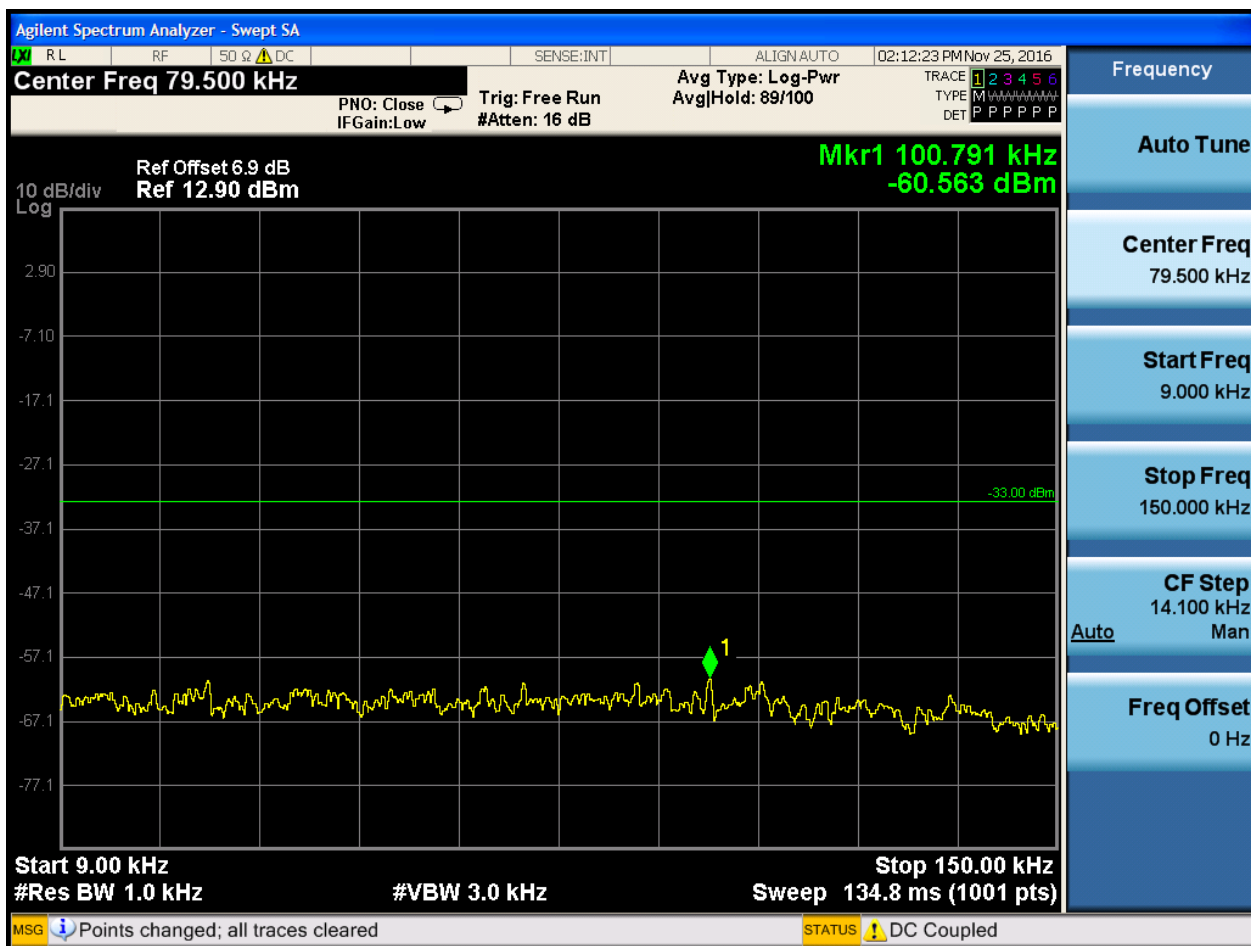


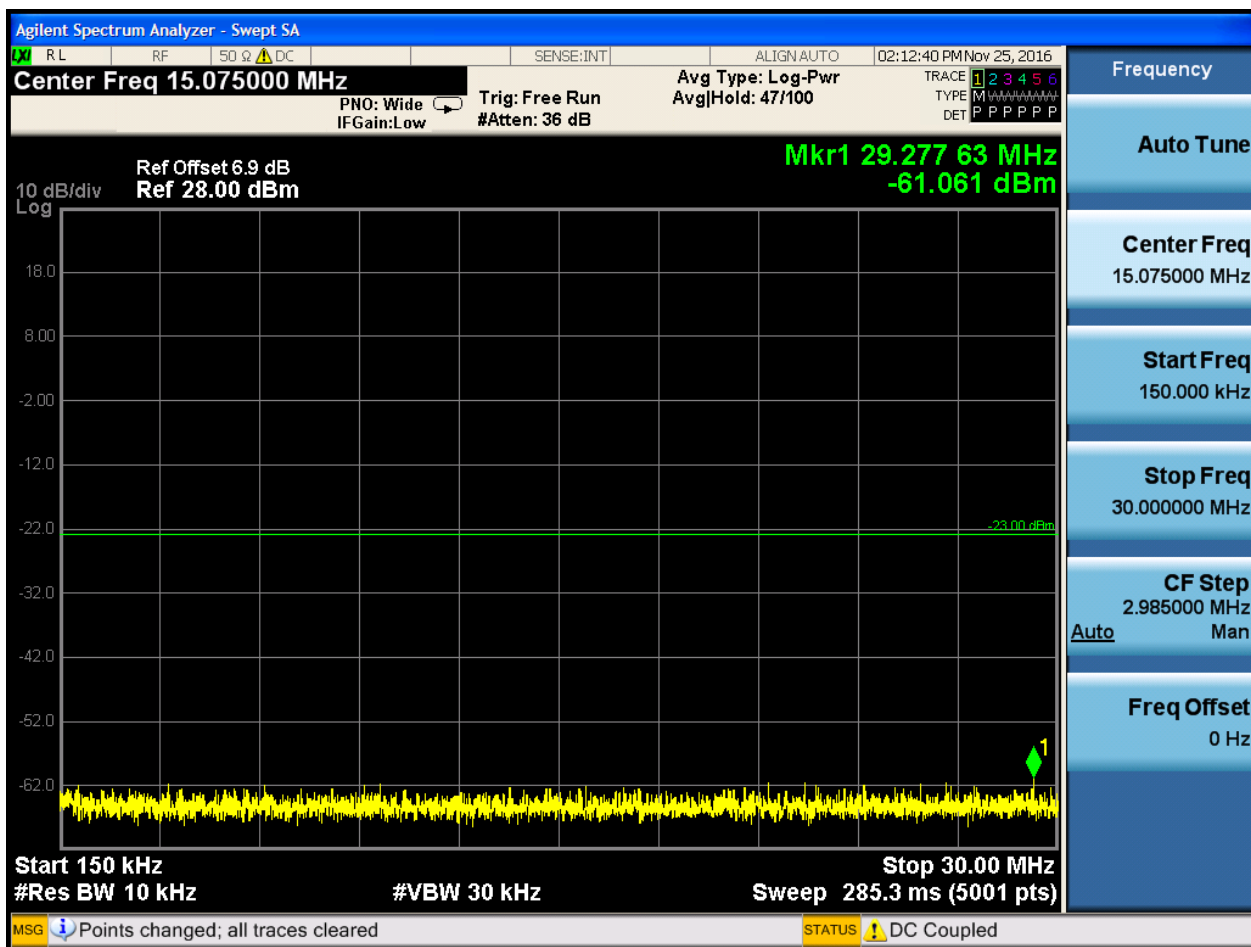


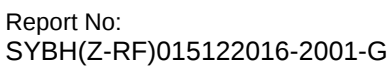


6.3.1.2.1.3 Test Channel = HCH

6.3.1.2.1.3.1 Test RB = RB1#0



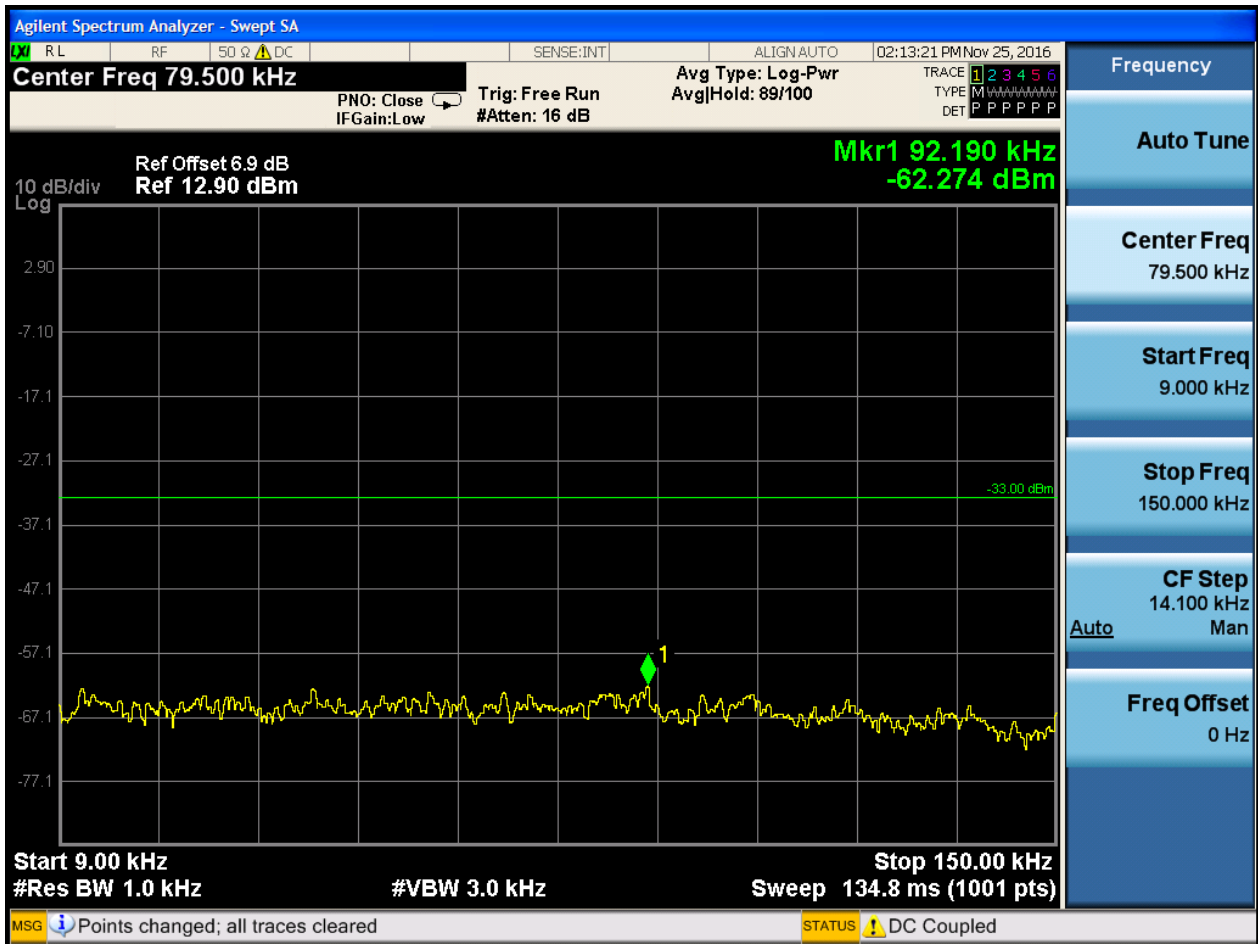


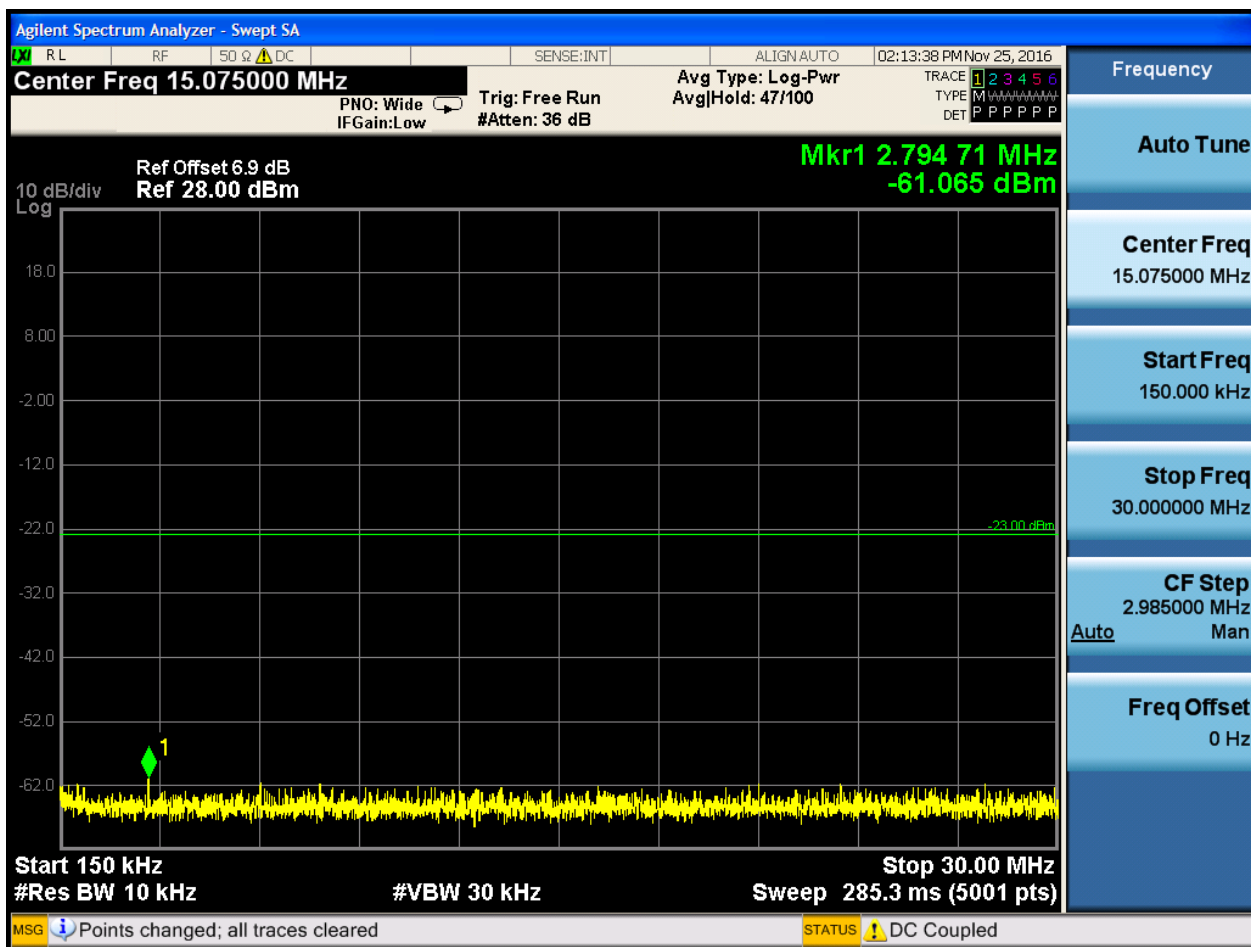


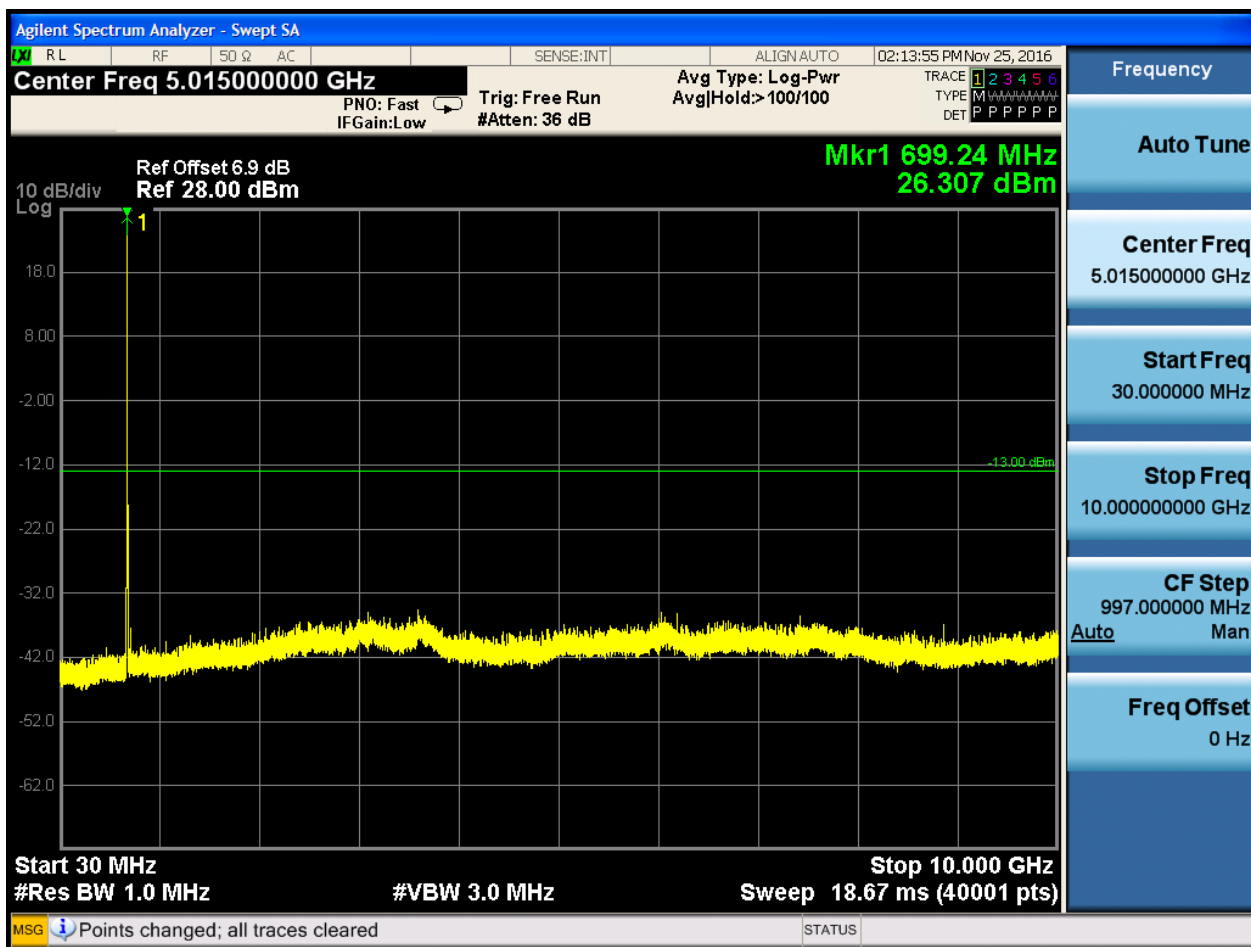
6.3.1.2.2 Test Bandwidth = 3

6.3.1.2.2.1 Test Channel = LCH

6.3.1.2.2.1.1 Test RB = RB1#0



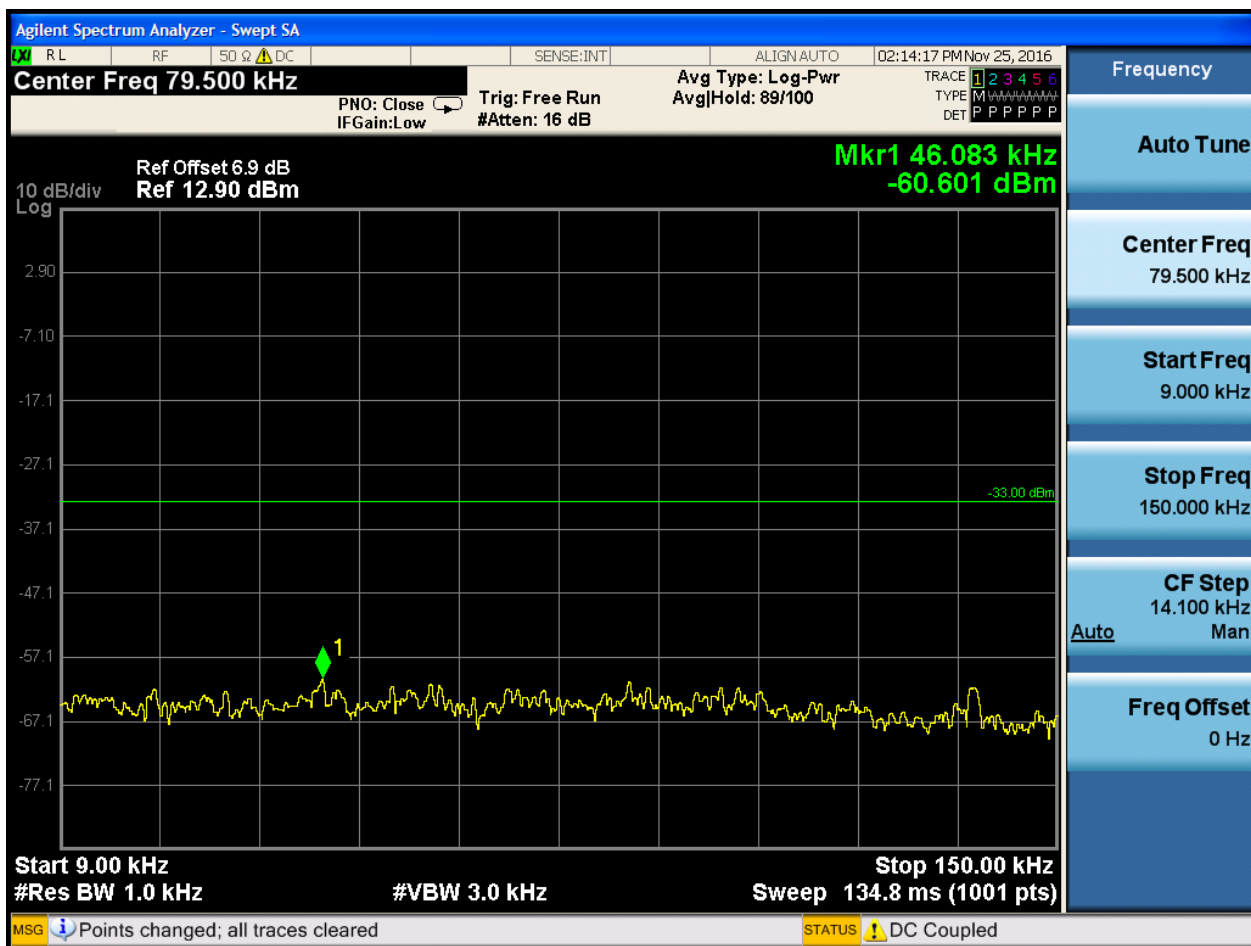


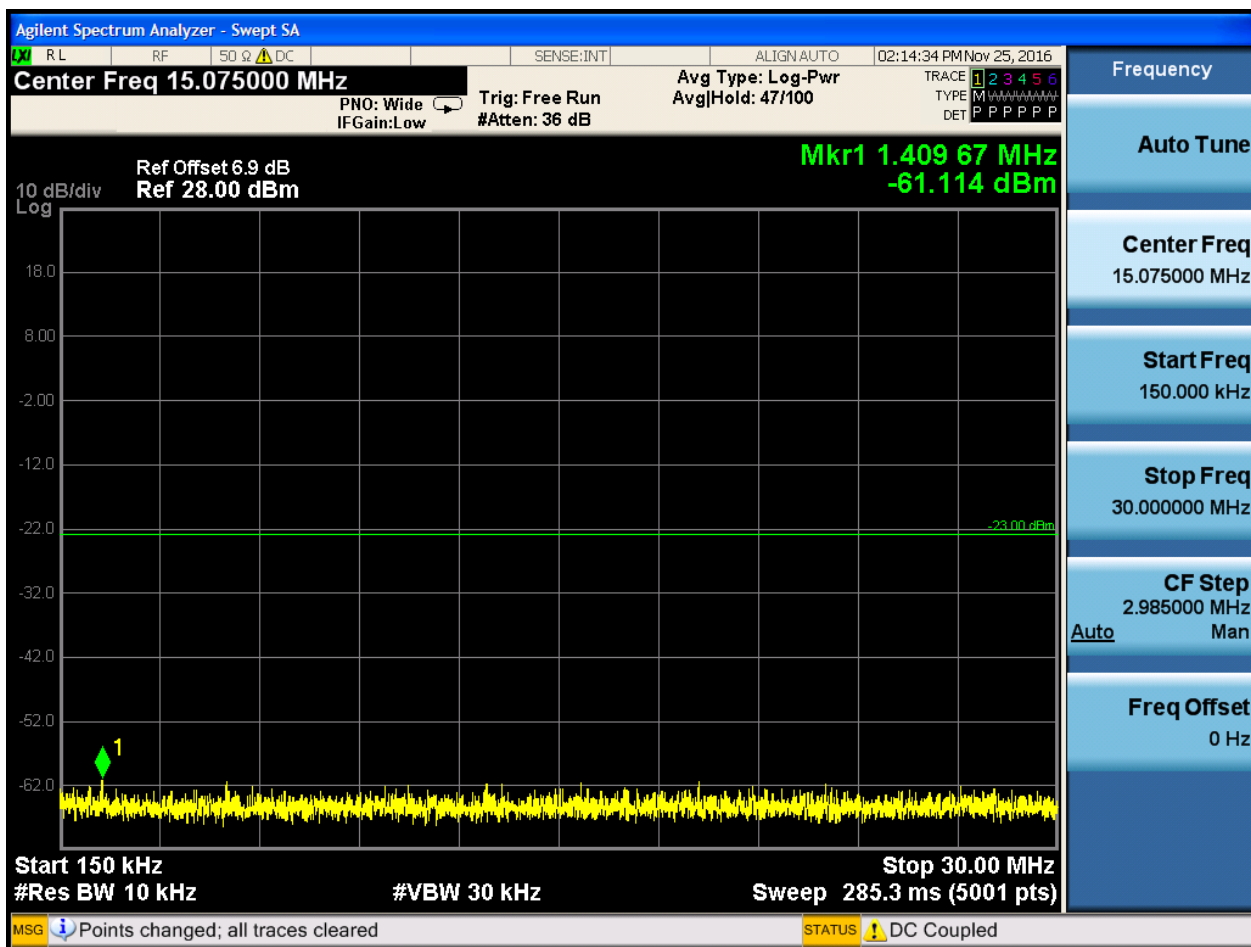


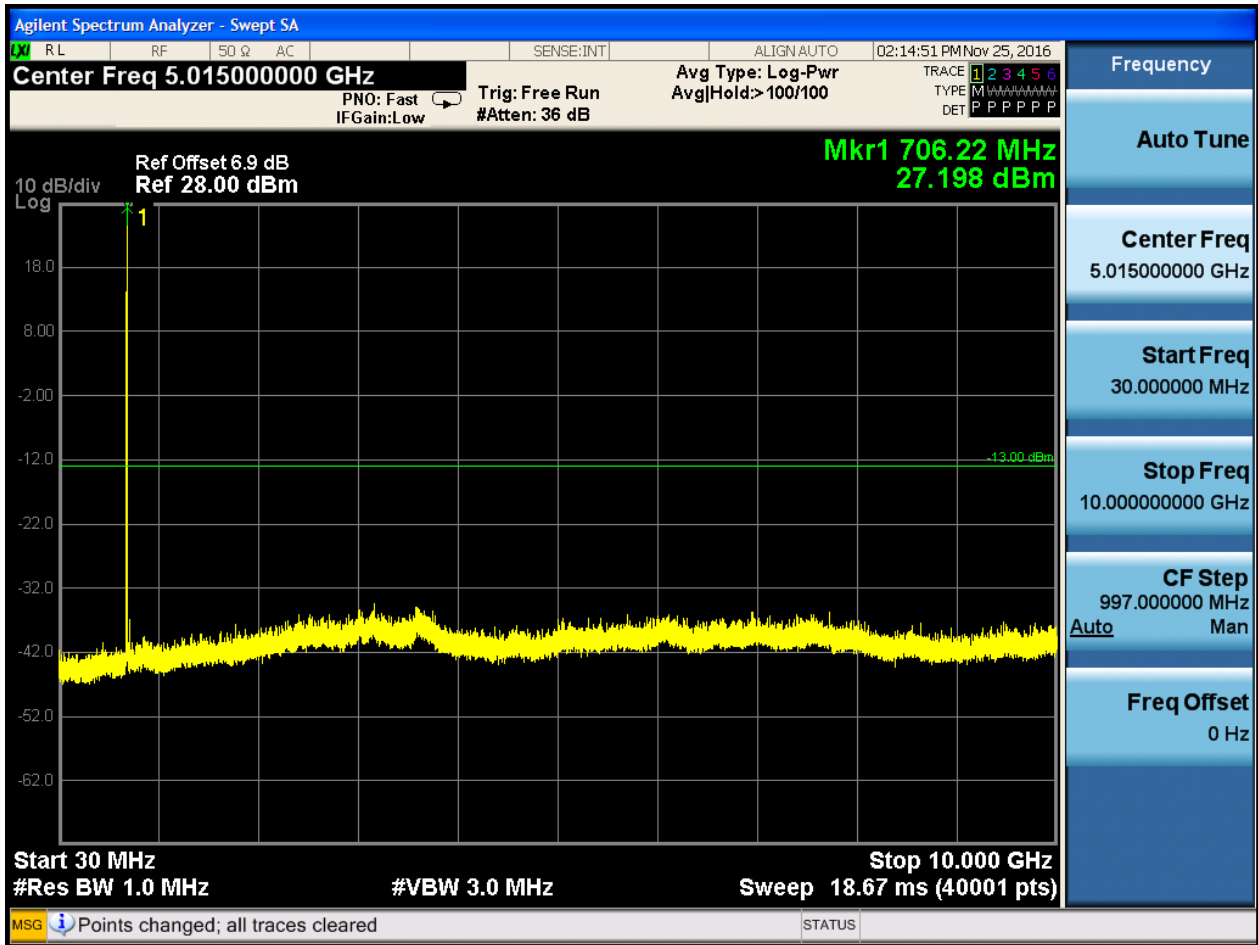


6.3.1.2.2.2 Test Channel = MCH

6.3.1.2.2.2.1 Test RB = RB1#0



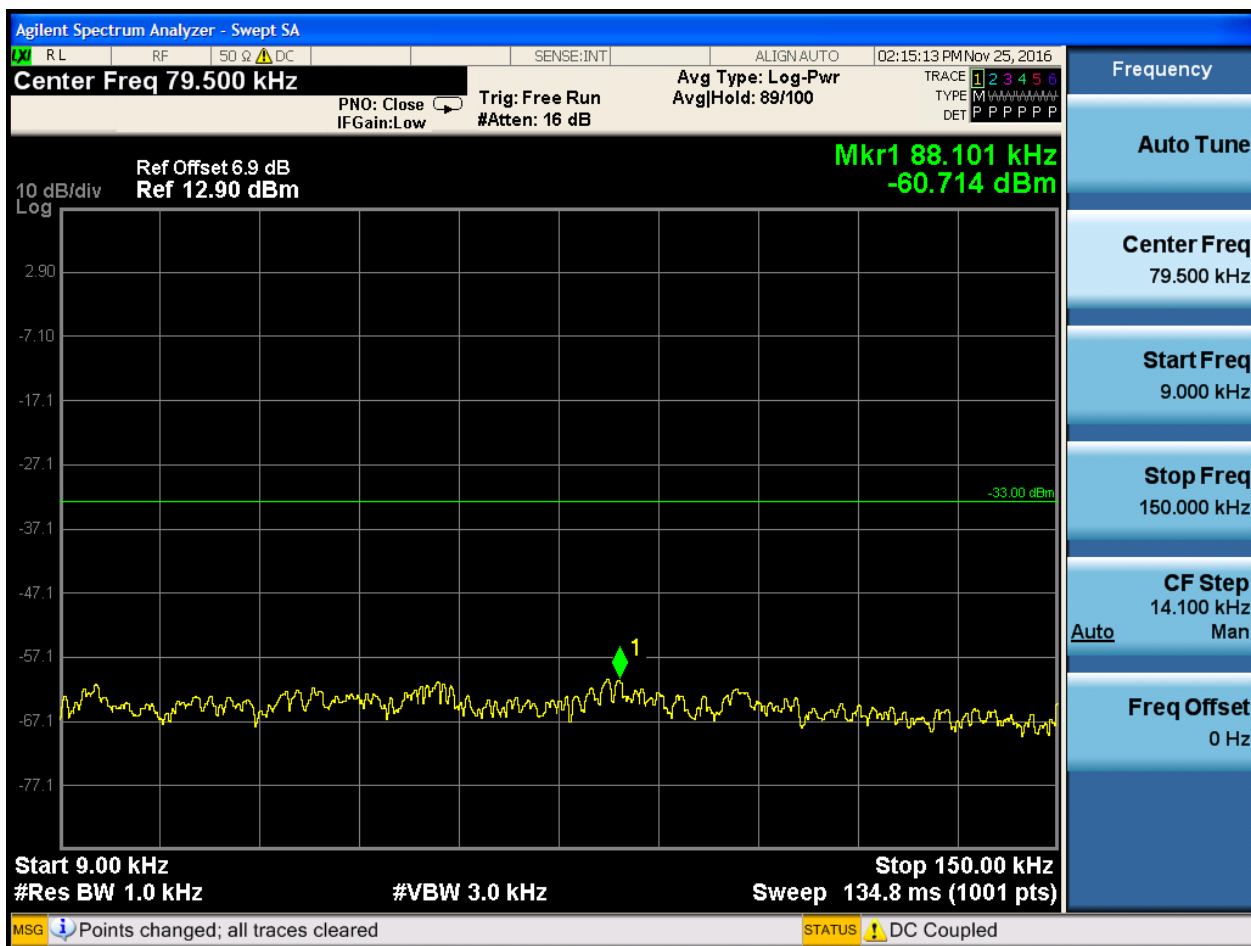


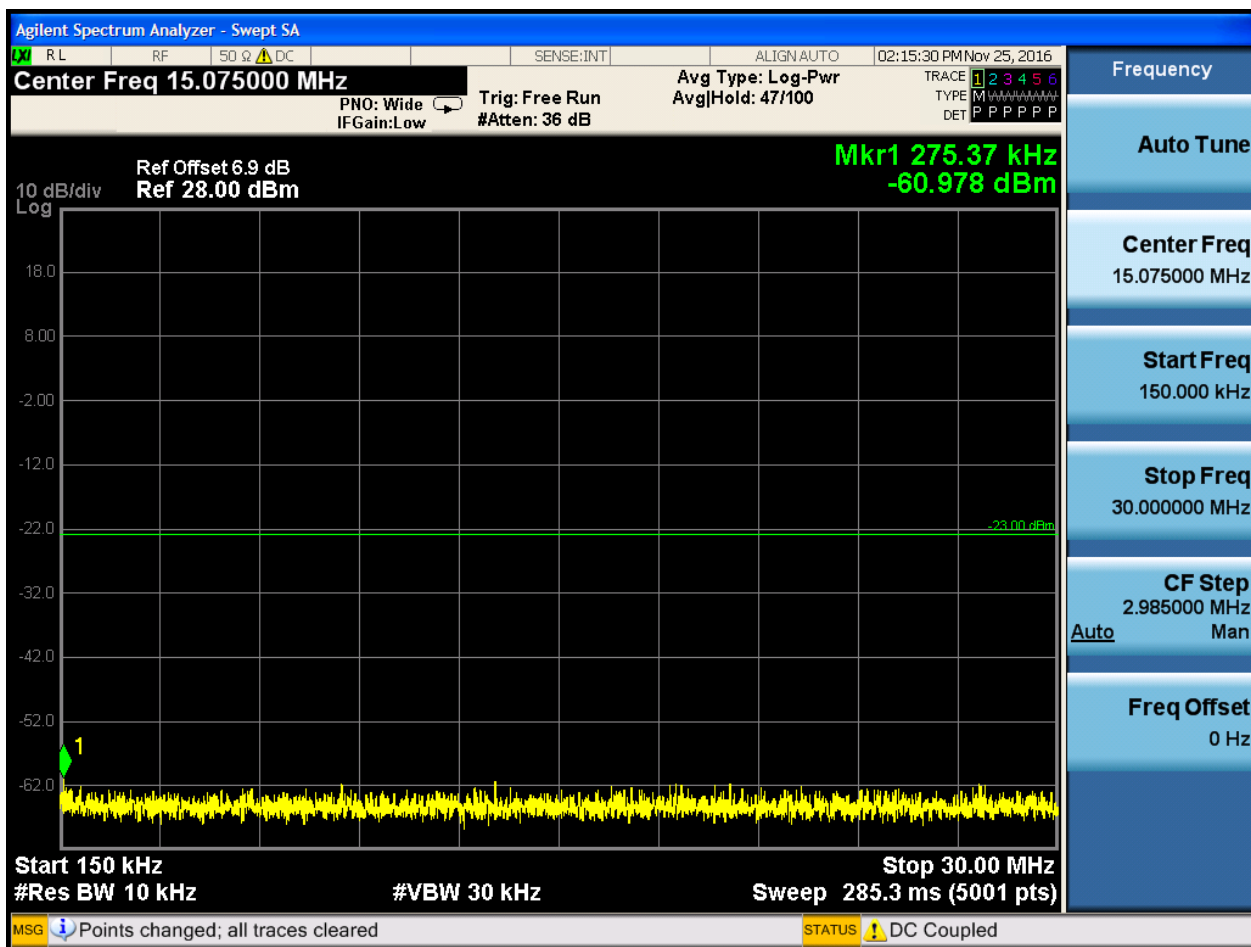


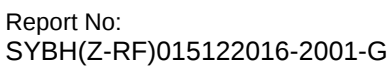


6.3.1.2.2.3 Test Channel = HCH

6.3.1.2.2.3.1 Test RB = RB1#0

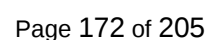


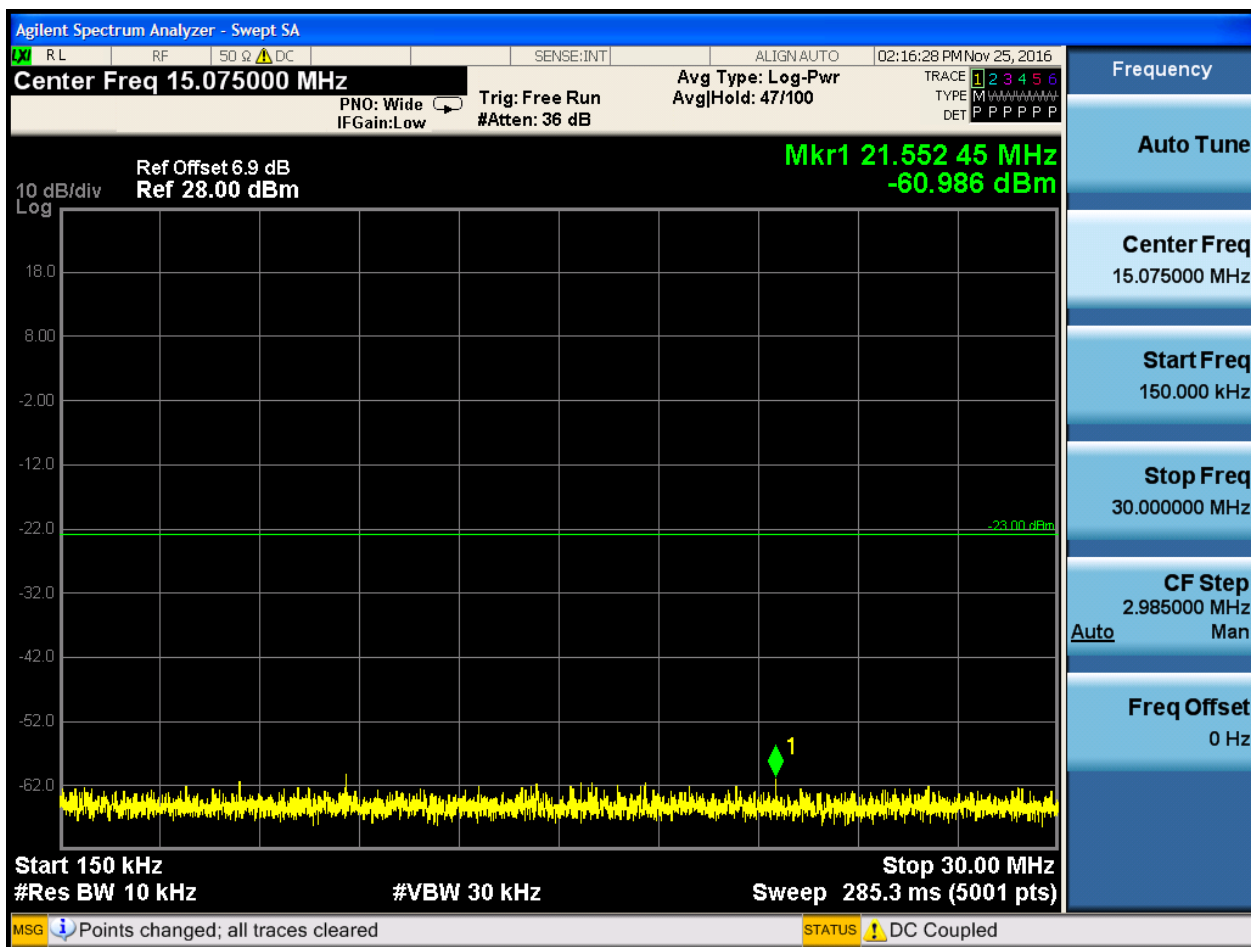


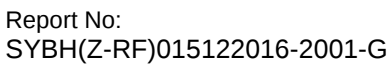




6.3.1.2.3.1.1 Test RB = RB1#0



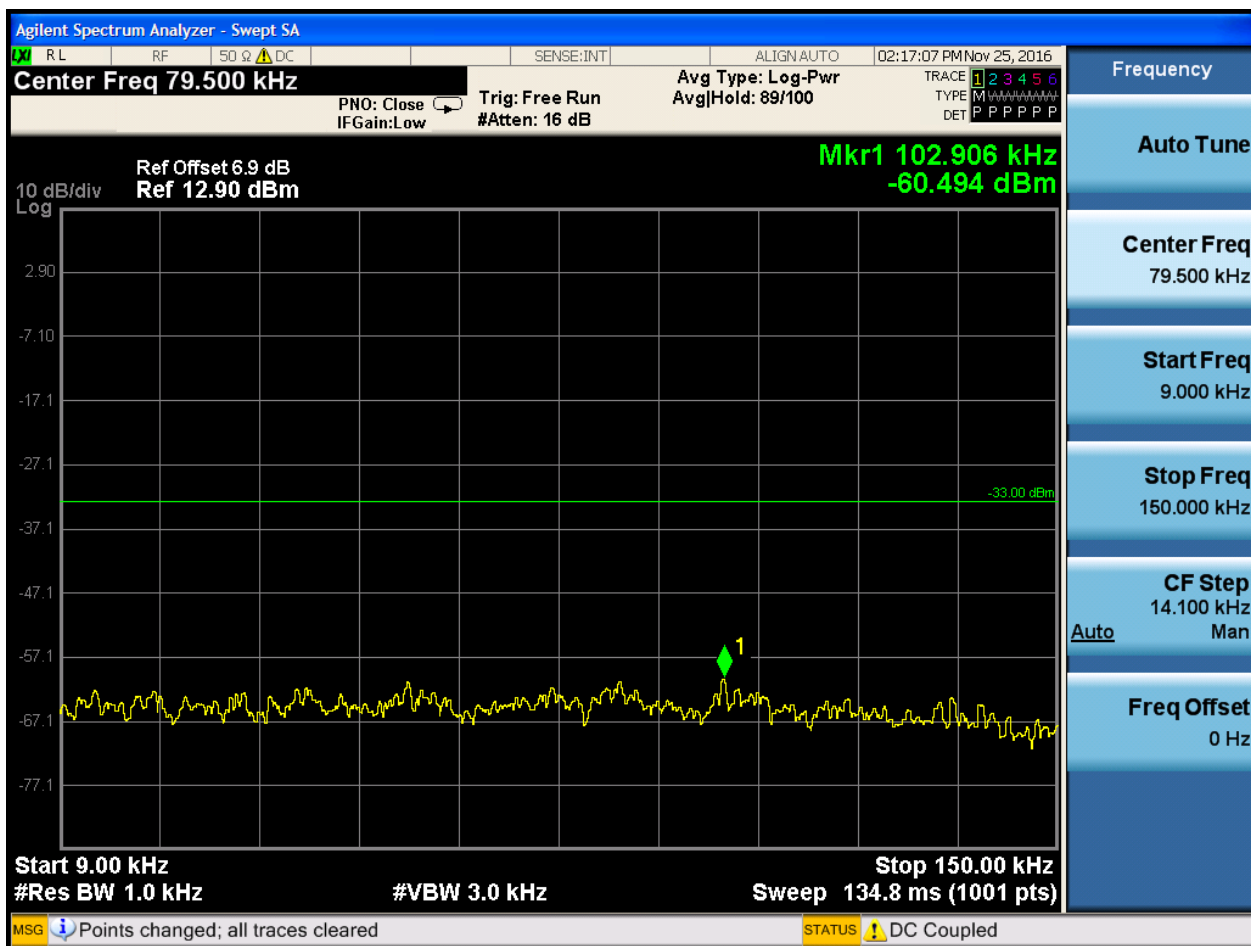


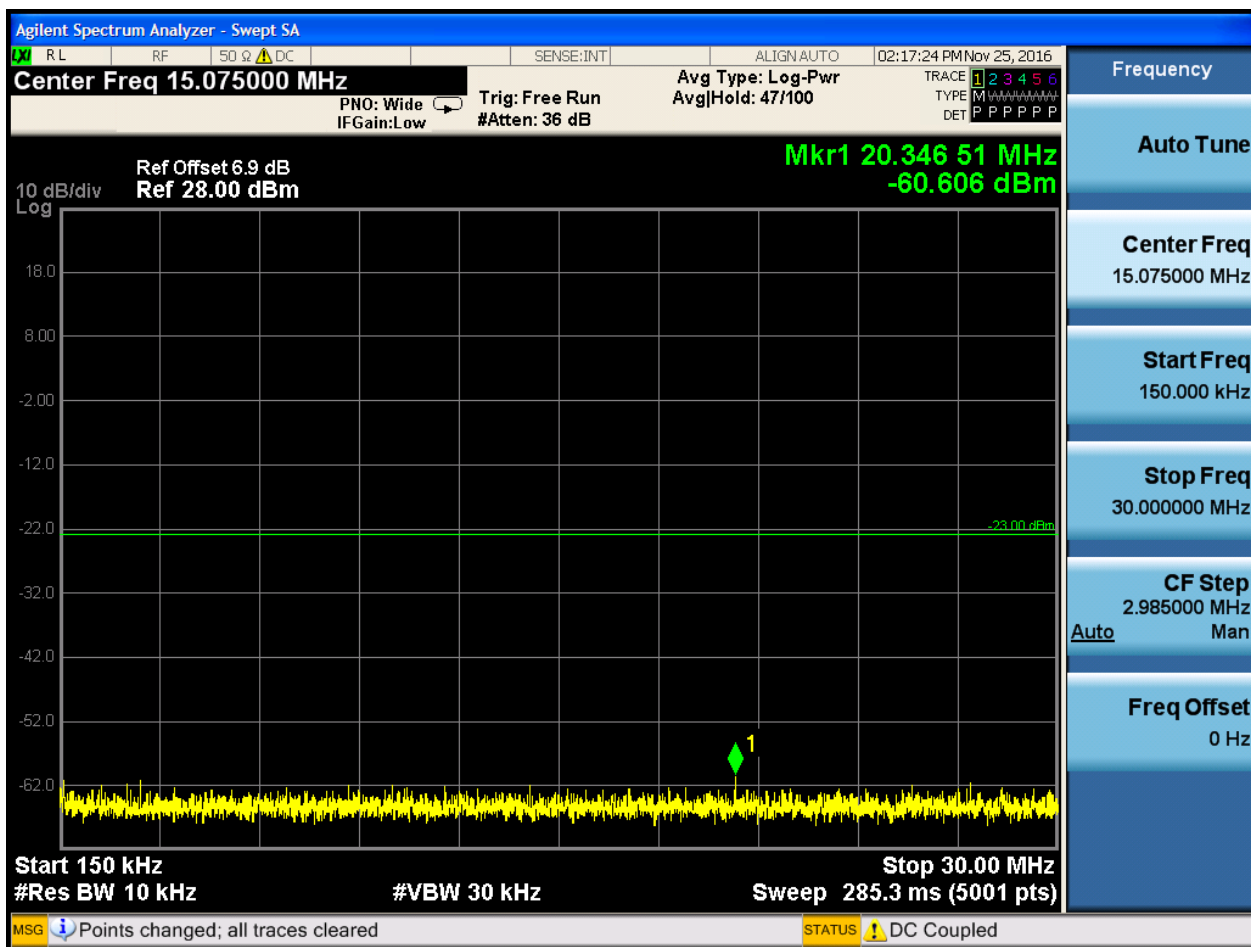


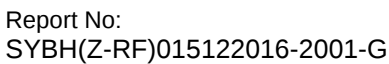


6.3.1.2.3.2 Test Channel = MCH

6.3.1.2.3.2.1 Test RB = RB1#0

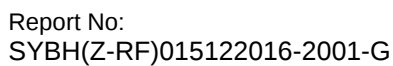


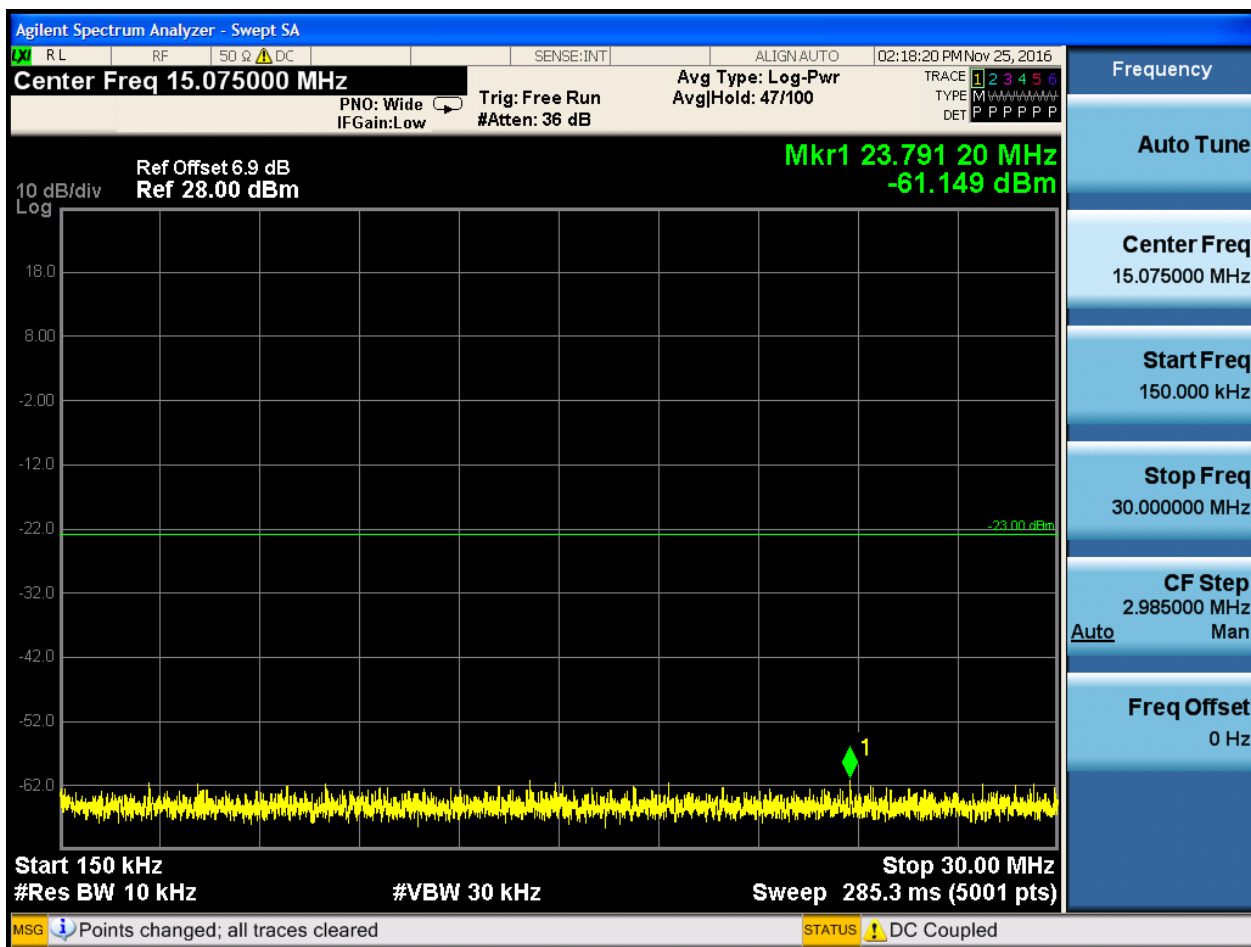


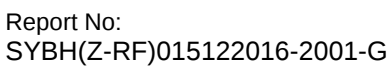




6.3.1.2.3.3.1 Test RB = RB1#0



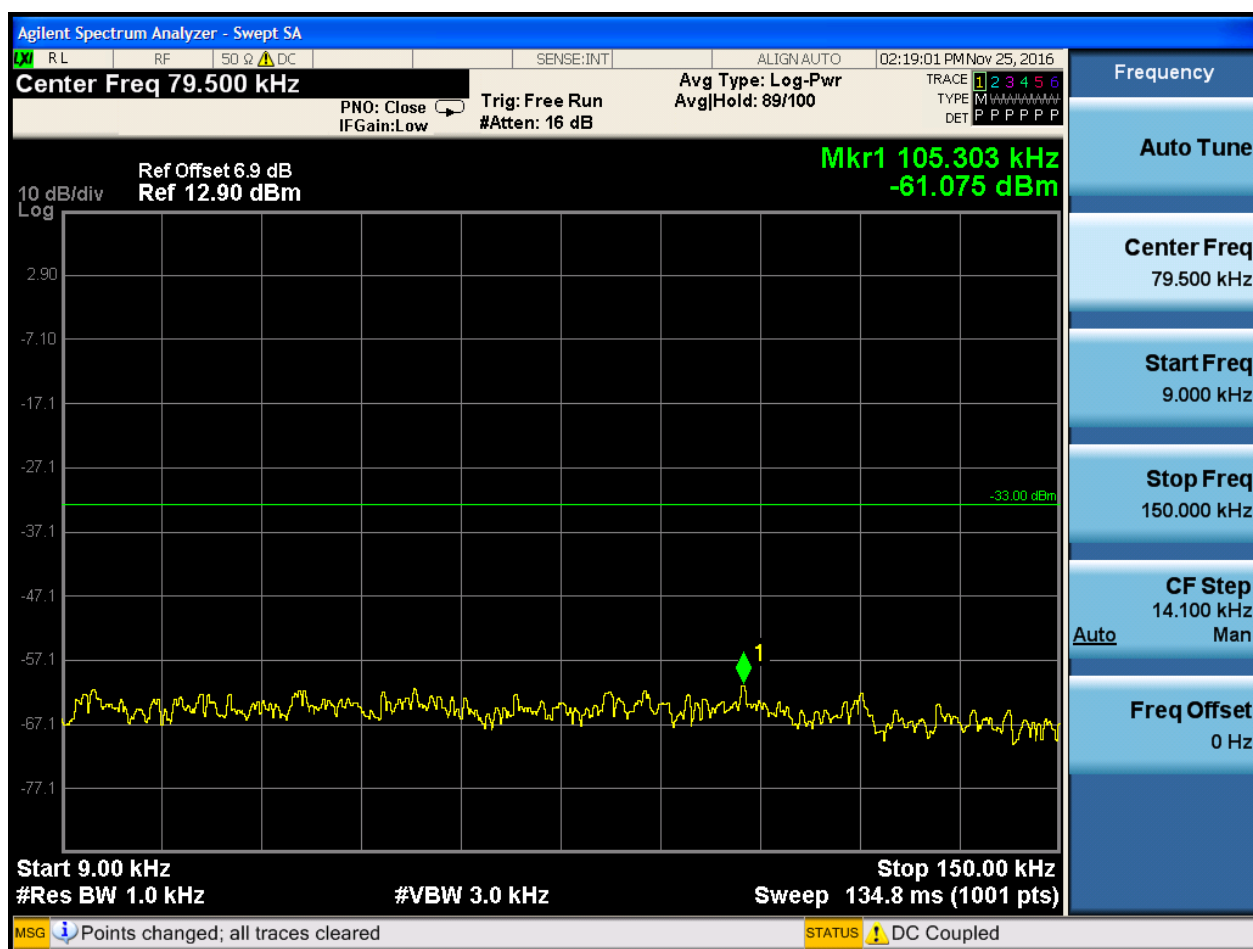


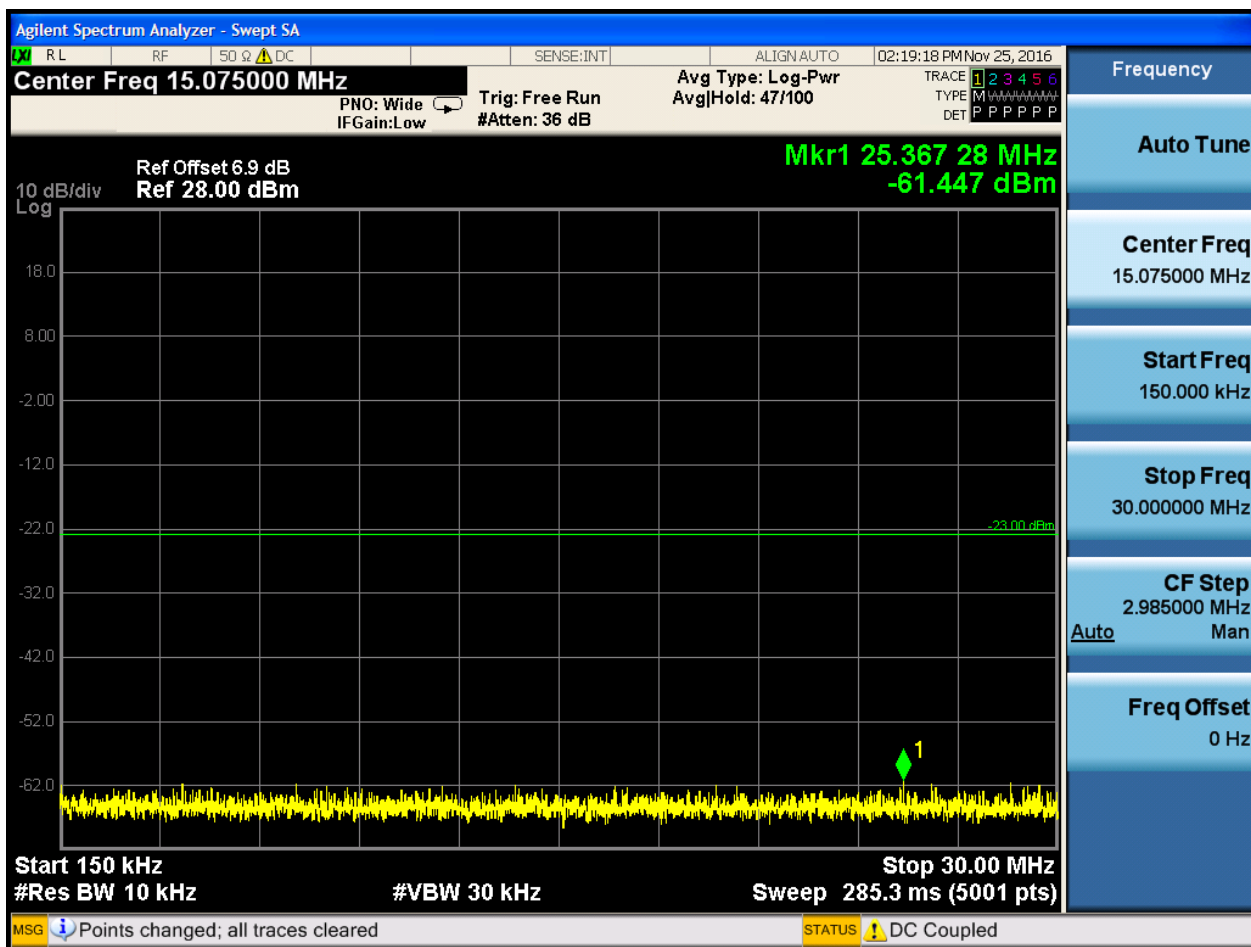


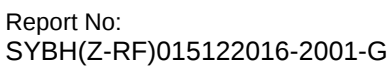
6.3.1.2.4 Test Bandwidth = 10

6.3.1.2.4.1 Test Channel = LCH

6.3.1.2.4.1.1 Test RB = RB1#0



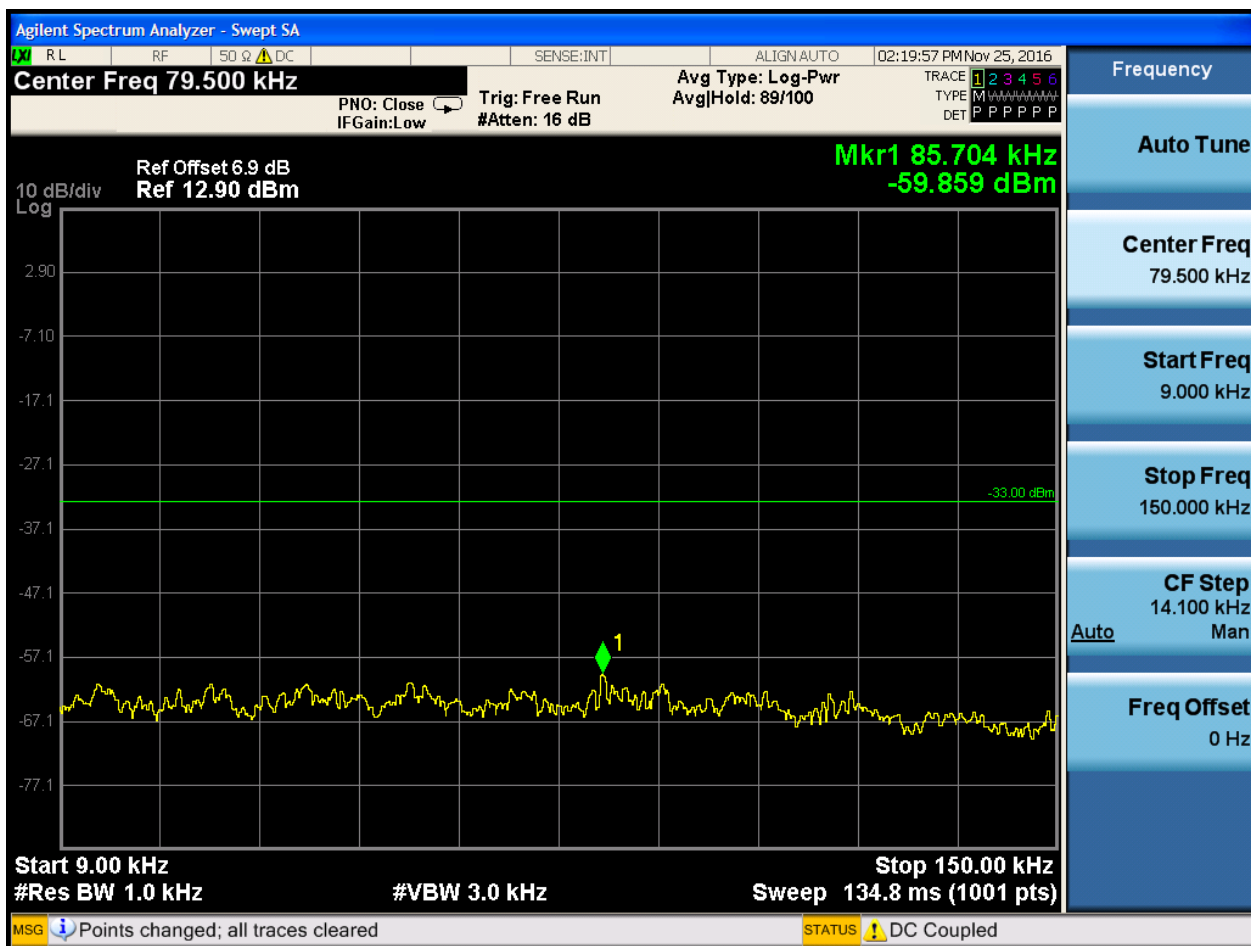


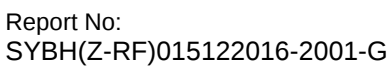


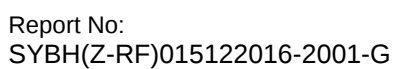


6.3.1.2.4.2 Test Channel = MCH

6.3.1.2.4.2.1 Test RB = RB1#0



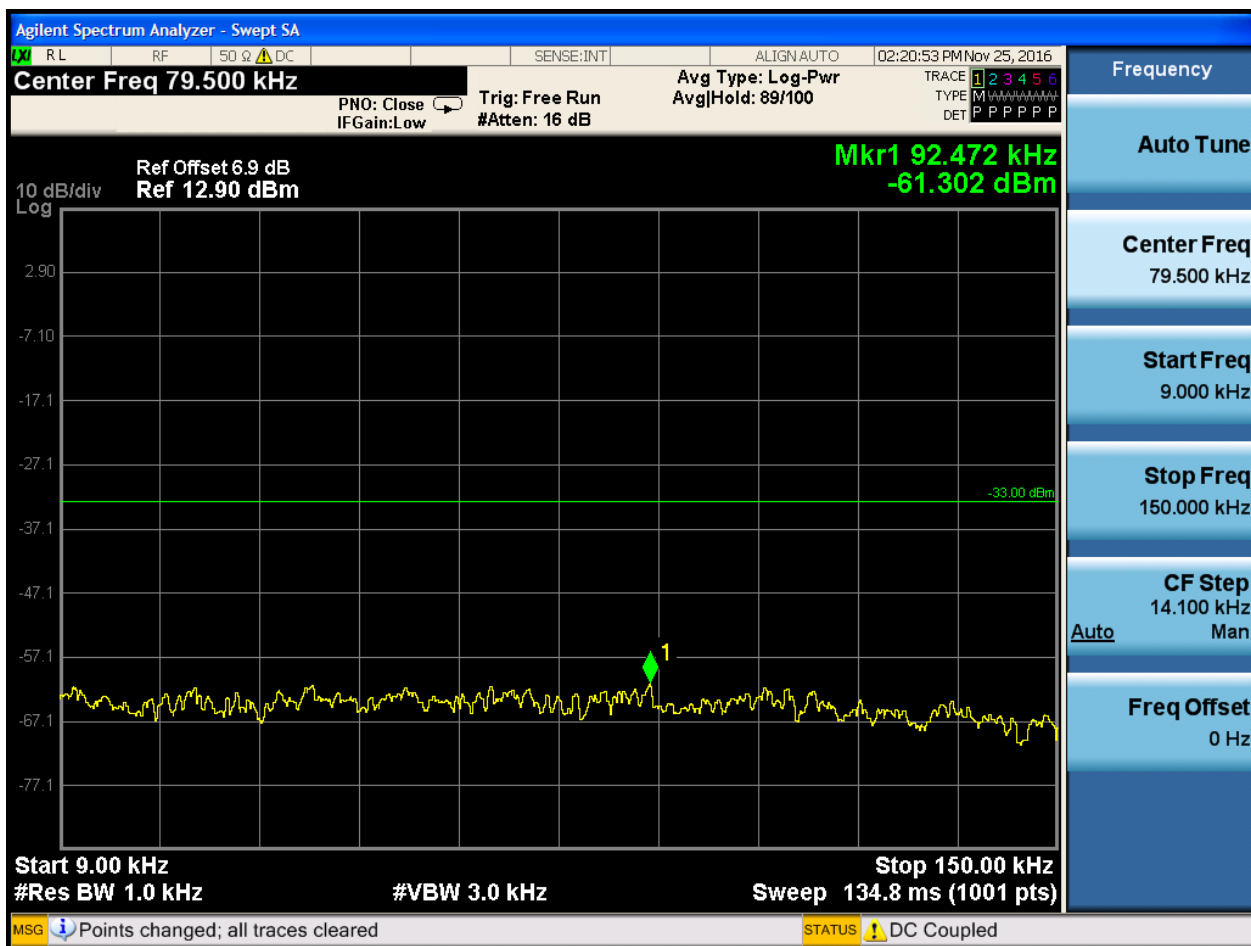


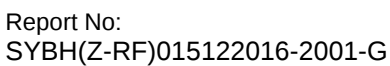


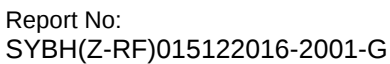


6.3.1.2.4.3 Test Channel = HCH

6.3.1.2.4.3.1 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

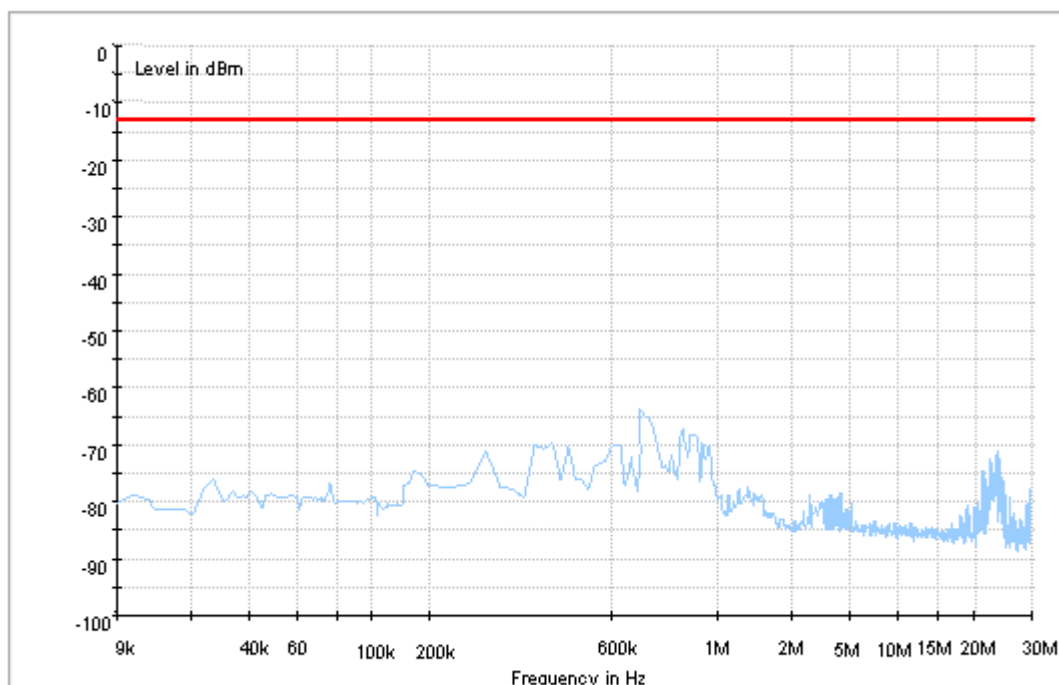
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

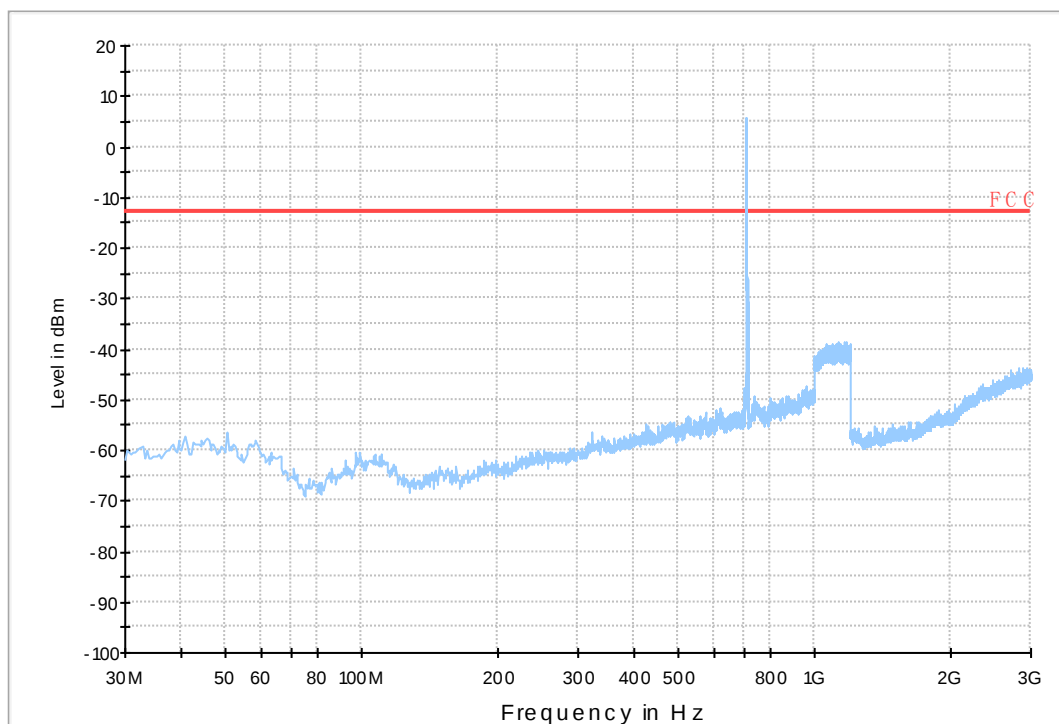
7.1 For LTE

7.1.1 Test Band = BAND12_Ant1

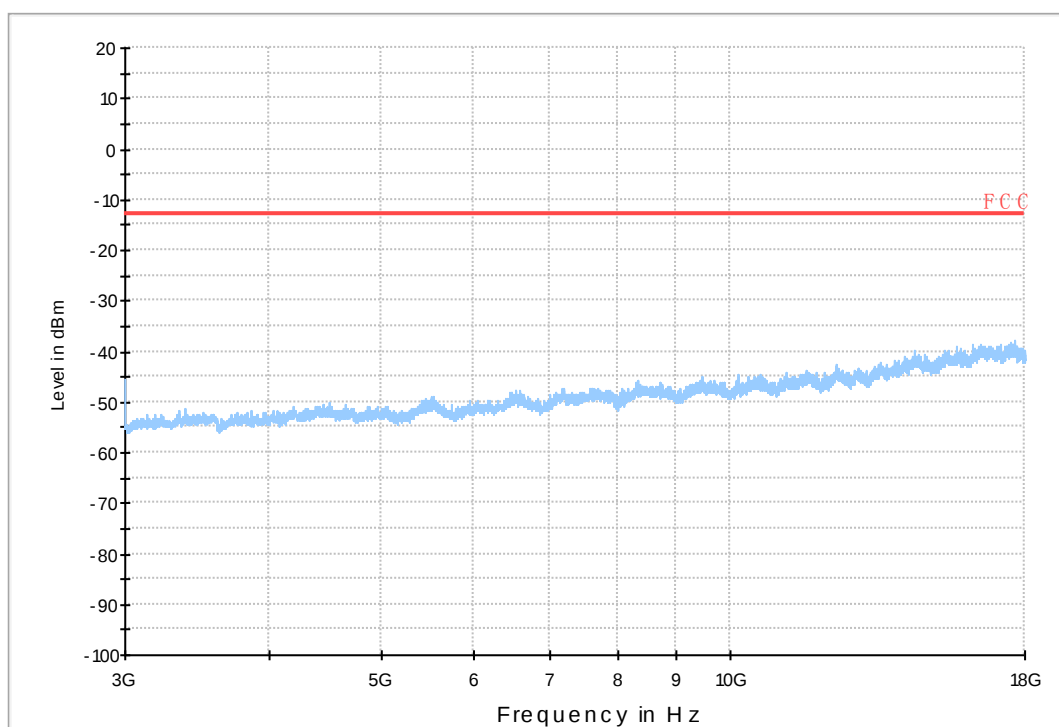
7.1.1.1 Test Bandwidth = 1.4



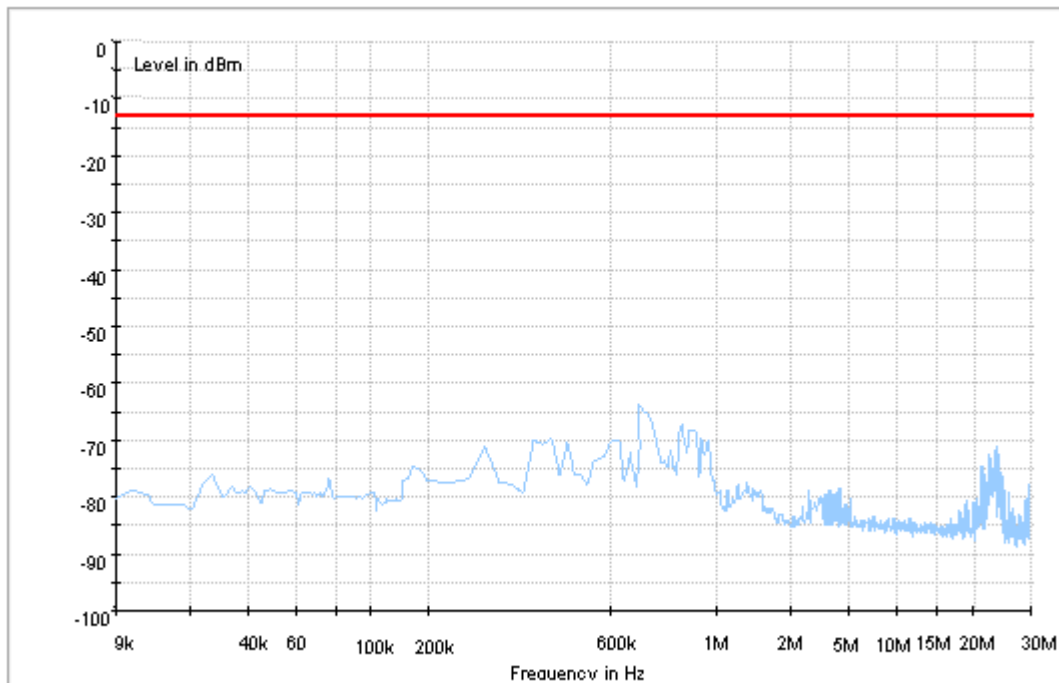
Copy of RSE-TX-DIRECTOR BELOW 1G_L



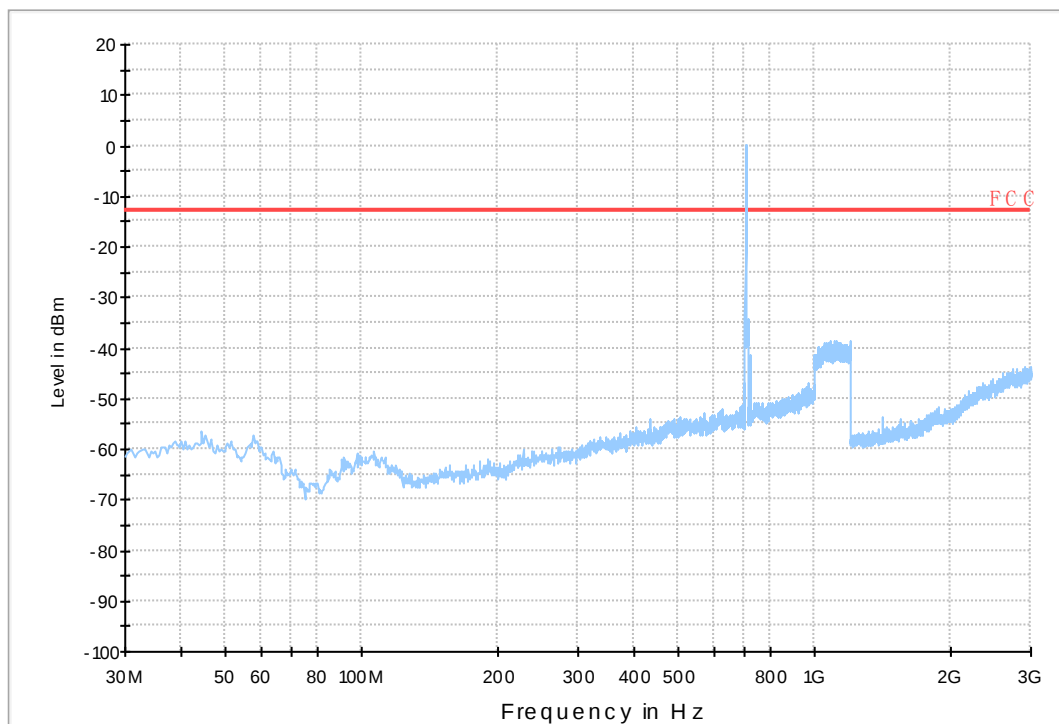
Copy of RSE-TX-DIRECTOR BELOW 1G_H



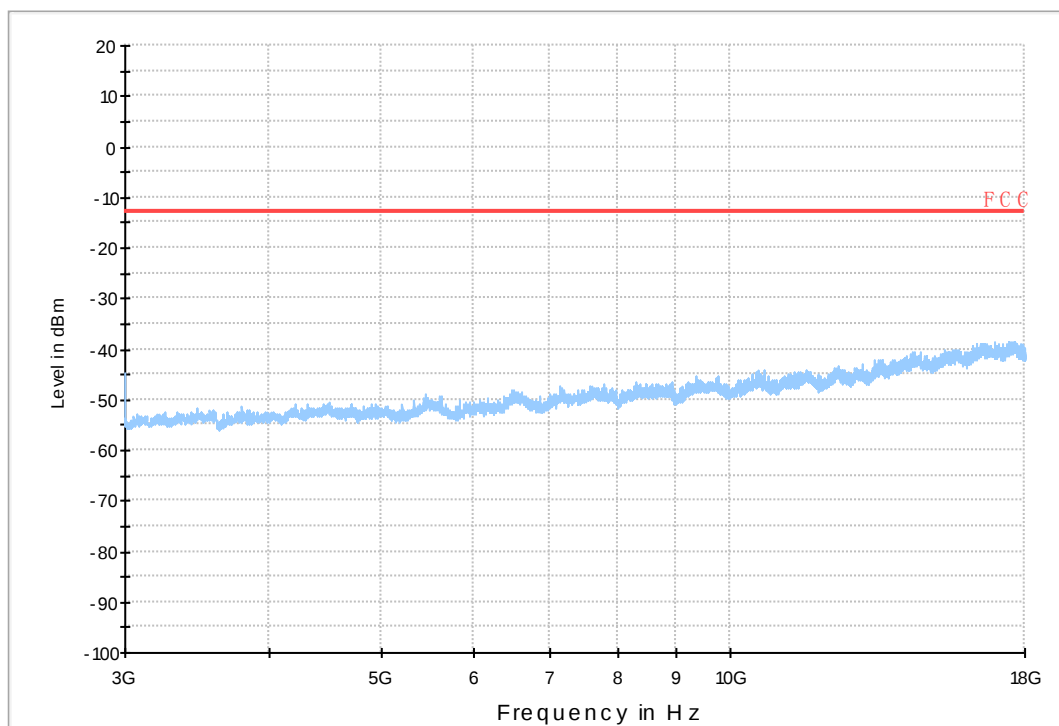
7.1.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L

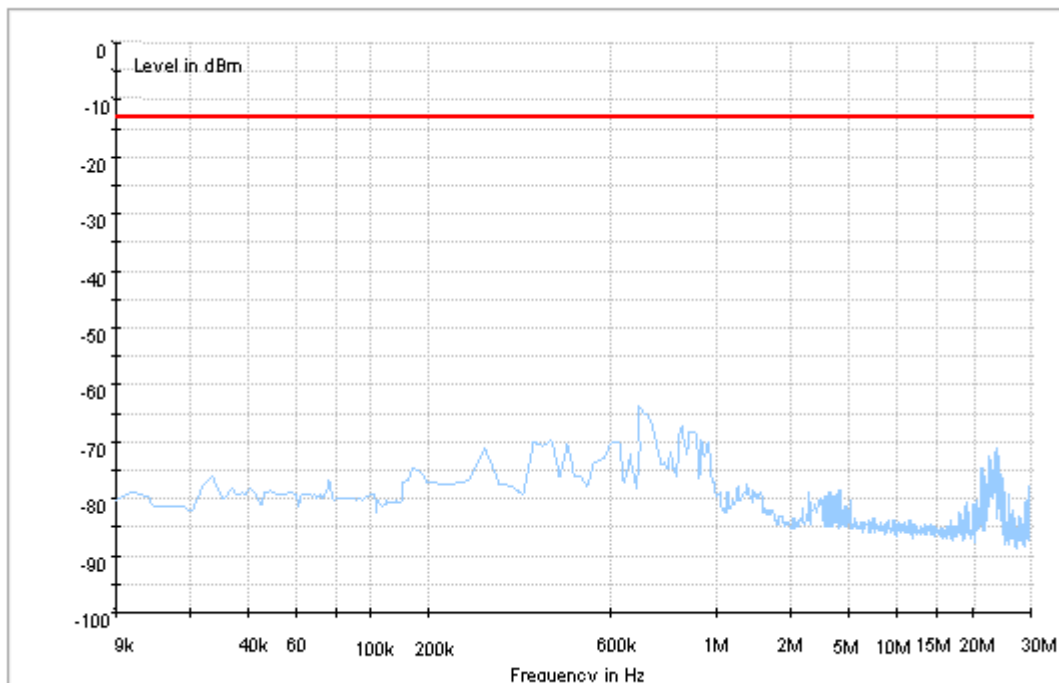


Copy of RSE-TX-DIRECTOR BELOW 1G_H

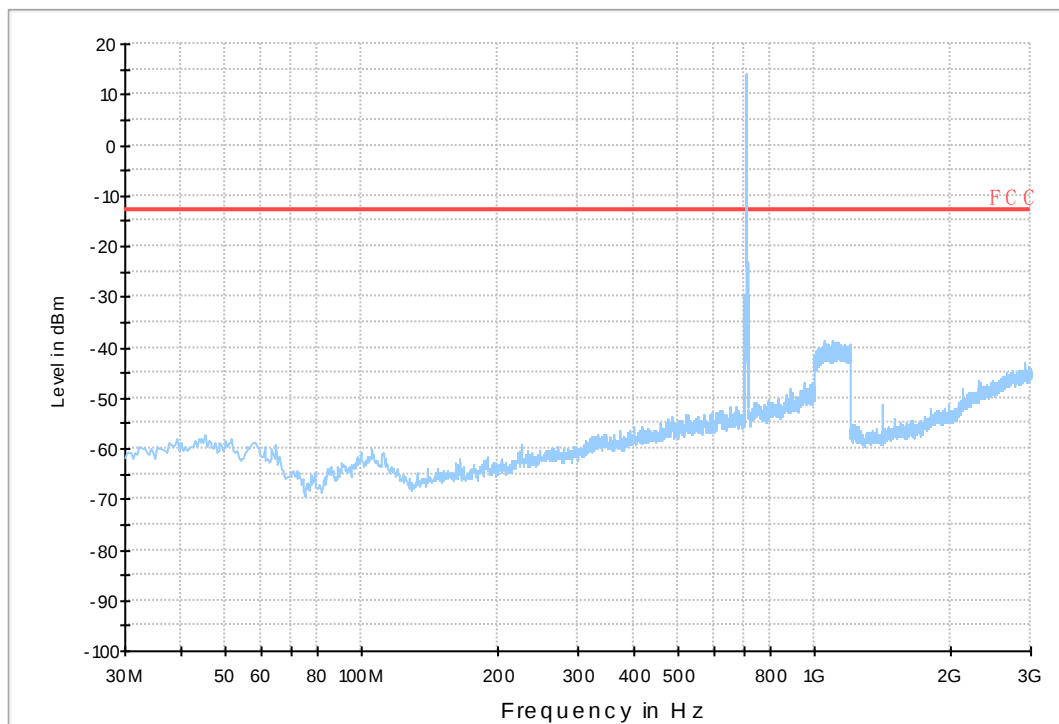


7.1.2 Test Band = BAND12_Ant2

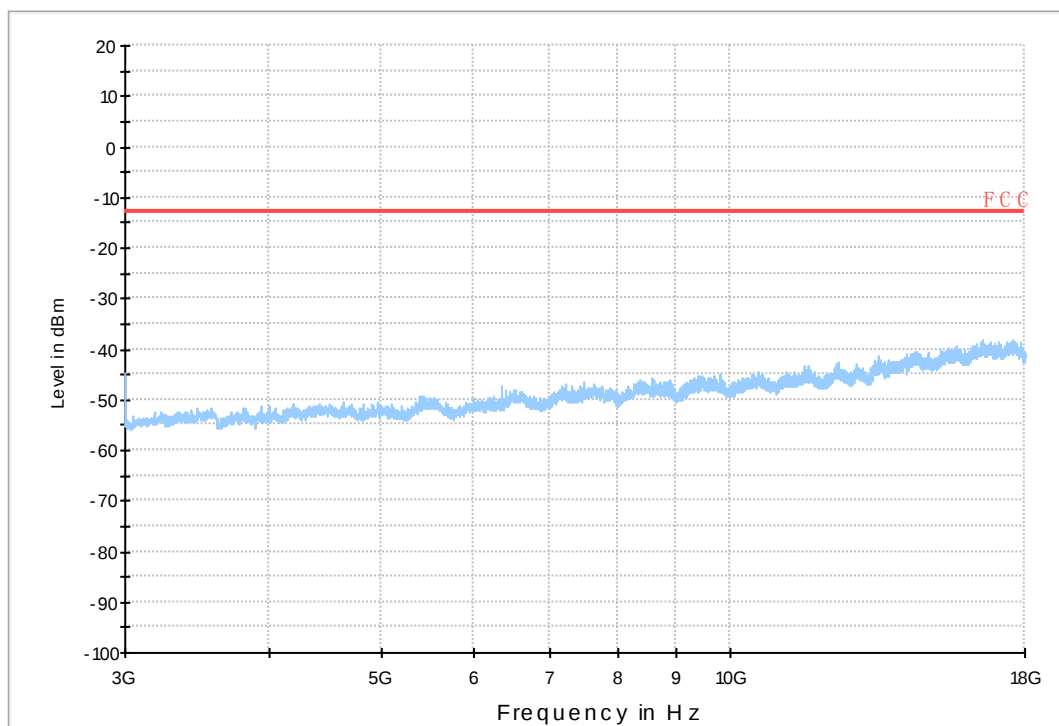
7.1.2.1 Test Bandwidth = 1.4



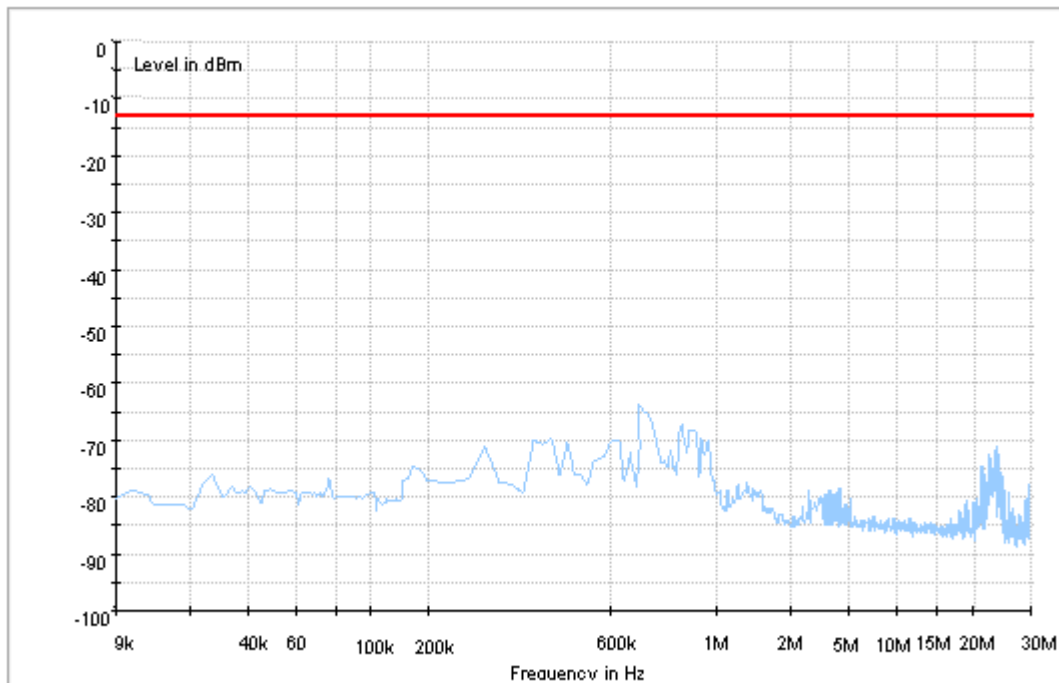
Copy of RSE-TX-DIRECTOR BELOW 1G_L



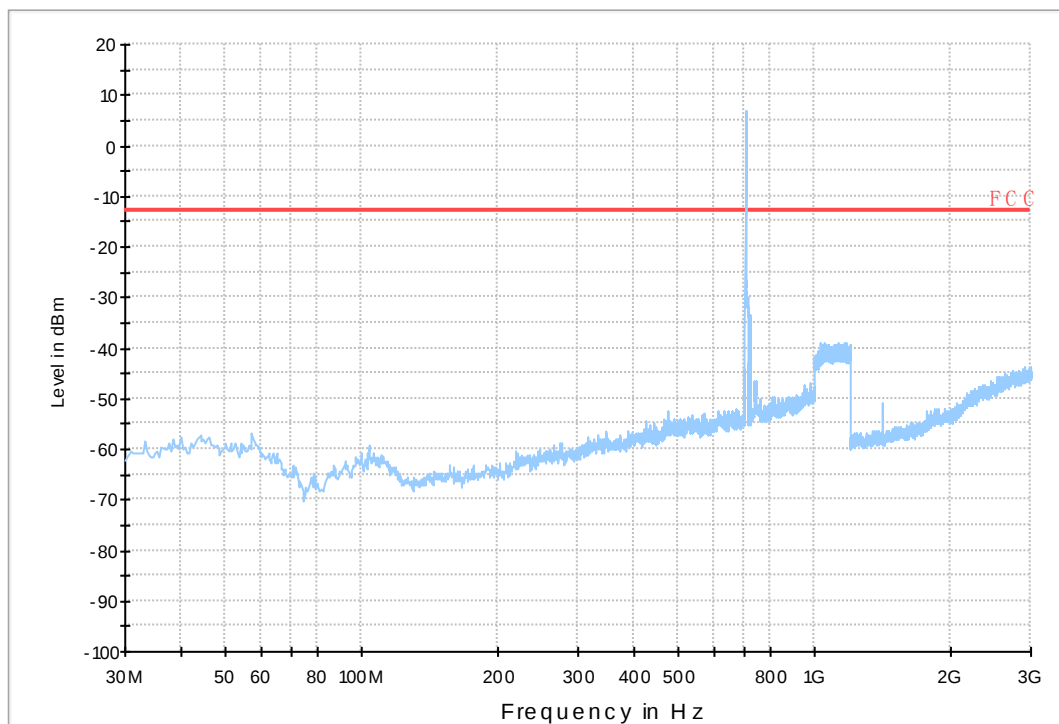
Copy of RSE-TX-DIRECTOR BELOW 1G_H



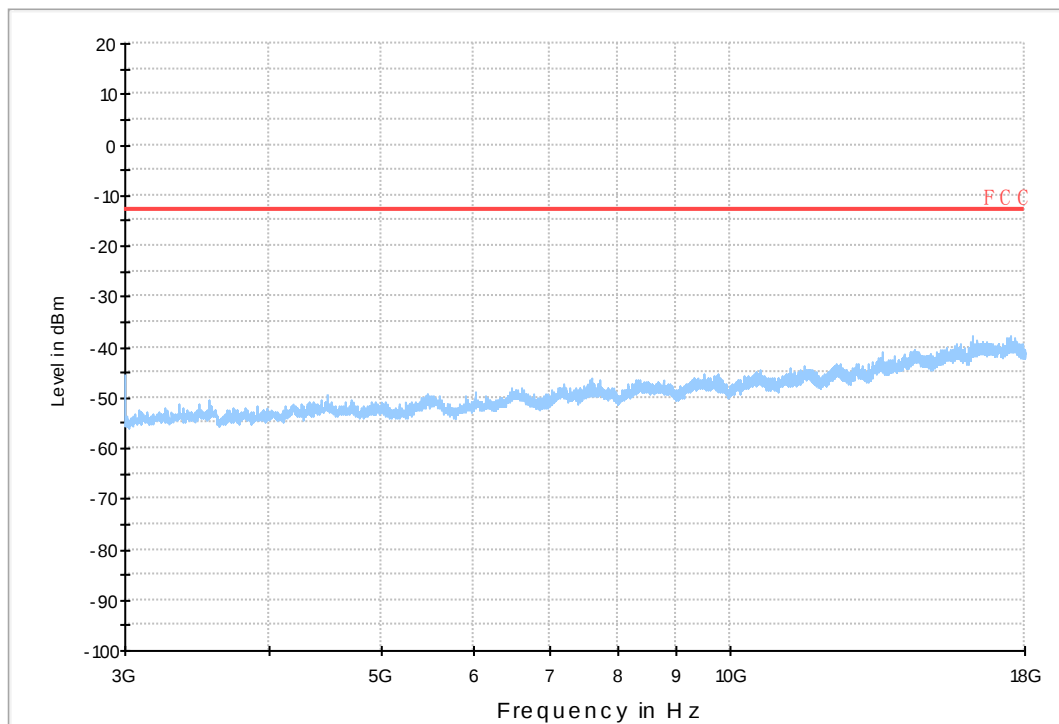
7.1.2.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND12	LTE/TM1	1.4	LCH	TN	VL	12.86	0.01837	PASS
					VN	-9.72	-0.01389	PASS
					VH	-7.70	-0.01101	PASS
			MCH	TN	VL	13.13	0.01856	PASS
					VN	9.50	0.01342	PASS
					VH	7.41	0.01047	PASS
			HCH	TN	VL	16.28	0.02276	PASS
					VN	-8.62	-0.01206	PASS
					VH	10.27	0.01436	PASS
		3	LCH	TN	VL	23.51	0.03356	PASS
					VN	1.51	0.00215	PASS
					VH	-6.10	-0.00871	PASS
			MCH	TN	VL	4.17	0.00589	PASS
					VN	-10.57	-0.01494	PASS
					VH	7.51	0.01061	PASS
			HCH	TN	VL	-12.14	-0.01699	PASS
					VN	-14.92	-0.02089	PASS
					VH	6.03	0.00845	PASS
		5	LCH	TN	VL	10.02	0.01428	PASS
					VN	10.59	0.01510	PASS
					VH	23.76	0.03387	PASS
			MCH	TN	VL	-13.49	-0.01907	PASS
					VN	22.78	0.03219	PASS
					VH	3.24	0.00458	PASS
			HCH	TN	VL	11.92	0.01671	PASS
					VN	9.77	0.01369	PASS
					VH	1.01	0.00142	PASS
		10	LCH	TN	VL	21.03	0.02988	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	9.70	0.01377	PASS
					VH	-1.28	-0.00182	PASS
					VL	3.16	0.00446	PASS
			MCH	TN	VN	5.36	0.00757	PASS
					VH	19.23	0.02718	PASS
					VL	-14.35	-0.02019	PASS
			HCH	TN	VN	-11.76	-0.01654	PASS
					VH	-10.40	-0.01463	PASS
					VL	1.38	0.00197	PASS
	LTE/TM2	1.4	LCH	TN	VN	1.57	0.00225	PASS
					VH	-12.99	-0.01856	PASS
					VL	12.20	0.01725	PASS
			MCH	TN	VN	-5.58	-0.00788	PASS
					VH	1.73	0.00244	PASS
					VL	-5.63	-0.00788	PASS
			HCH	TN	VN	12.82	0.01792	PASS
					VH	10.44	0.01459	PASS
					VL	1.32	0.00189	PASS
		3	LCH	TN	VN	22.28	0.03181	PASS
					VH	4.92	0.00702	PASS
					VL	1.08	0.00153	PASS
			MCH	TN	VN	9.70	0.01371	PASS
					VH	1.96	0.00277	PASS
					VL	11.66	0.01633	PASS
			HCH	TN	VN	-2.75	-0.00385	PASS
					VH	11.78	0.01649	PASS
					VL	12.16	0.01733	PASS
		5	LCH	TN	VN	-12.97	-0.01849	PASS
					VH	16.54	0.02357	PASS
					VL	10.49	0.01482	PASS
			MCH	TN	VN	-7.26	-0.01026	PASS
					VH	3.46	0.00489	PASS
					VL	0.12	0.00017	PASS
			HCH	TN	VN	-7.15	-0.01002	PASS
					VH	22.04	0.03089	PASS
					VL	1.62	0.00231	PASS
		10	LCH	TN	VN	10.09	0.01433	PASS
					VH	-3.01	-0.00427	PASS
					VL	0.20	0.00029	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-10.79	-0.01525	PASS
					VH	-3.94	-0.00557	PASS
			HCH	TN	VL	-11.11	-0.01563	PASS
					VN	-12.89	-0.01813	PASS
					VH	-0.44	-0.00062	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
BAND12	LTE/TM1	1.4	LCH	VN	-30	23.99	0.03428	PASS
					-20	13.61	0.01945	PASS
					-10	-11.10	-0.01586	PASS
					0	-8.20	-0.01172	PASS
					10	2.05	0.00293	PASS
					20	-0.94	-0.00135	PASS
					30	16.64	0.02379	PASS
					40	3.48	0.00497	PASS
					50	17.49	0.02500	PASS
			MCH	VN	-30	14.14	0.01999	PASS
					-20	14.55	0.02056	PASS
					-10	14.00	0.01979	PASS
					0	12.92	0.01827	PASS
					10	3.16	0.00447	PASS
					20	12.71	0.01797	PASS
					30	15.17	0.02144	PASS
					40	14.40	0.02036	PASS
					50	2.28	0.00322	PASS
			HCH	VN	-30	-9.18	-0.01284	PASS
					-20	-8.51	-0.01190	PASS
					-10	3.05	0.00427	PASS
					0	16.49	0.02306	PASS
					10	22.80	0.03187	PASS
					20	-3.65	-0.00510	PASS
					30	-11.11	-0.01553	PASS
					40	-13.24	-0.01851	PASS
					50	10.34	0.01446	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		3	LCH	VN	-30	13.35	0.01905	PASS
					-20	-14.80	-0.02113	PASS
					-10	21.98	0.03137	PASS
					0	13.63	0.01945	PASS
					10	9.04	0.01290	PASS
					20	-3.67	-0.00524	PASS
					30	-8.37	-0.01195	PASS
					40	23.39	0.03339	PASS
					50	-1.48	-0.00211	PASS
			MCH	VN	-30	4.84	0.00684	PASS
					-20	9.22	0.01303	PASS
					-10	-0.04	-0.00005	PASS
					0	6.89	0.00973	PASS
					10	11.70	0.01653	PASS
					20	-13.69	-0.01935	PASS
					30	15.65	0.02212	PASS
					40	6.69	0.00946	PASS
					50	13.89	0.01963	PASS
			HCH	VN	-30	-12.85	-0.01799	PASS
					-20	22.09	0.03092	PASS
					-10	9.27	0.01298	PASS
					0	7.70	0.01078	PASS
					10	6.91	0.00967	PASS
					20	-7.44	-0.01041	PASS
					30	17.69	0.02476	PASS
					40	-1.46	-0.00205	PASS
					50	-9.03	-0.01263	PASS
		5	LCH	VN	-30	1.14	0.00162	PASS
					-20	5.06	0.00721	PASS
					-10	-8.09	-0.01153	PASS
					0	3.58	0.00510	PASS
					10	-3.37	-0.00480	PASS
					20	7.91	0.01128	PASS
					30	-5.57	-0.00794	PASS
					40	18.32	0.02612	PASS
					50	-5.26	-0.00750	PASS
			MCH	VN	-30	21.78	0.03079	PASS
					-20	8.19	0.01157	PASS
					-10	2.59	0.00367	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-6.78	-0.00958	PASS
					10	-0.34	-0.00049	PASS
					20	8.04	0.01136	PASS
					30	9.75	0.01379	PASS
					40	21.37	0.03020	PASS
					50	0.37	0.00052	PASS
			HCH	VN	-30	21.90	0.03070	PASS
					-20	14.37	0.02015	PASS
					-10	20.23	0.02835	PASS
					0	-8.51	-0.01193	PASS
					10	13.61	0.01907	PASS
					20	12.28	0.01721	PASS
					30	1.84	0.00258	PASS
					40	5.18	0.00727	PASS
					50	11.83	0.01658	PASS
		10	LCH	VN	-30	-2.86	-0.00406	PASS
					-20	-9.76	-0.01386	PASS
					-10	-6.87	-0.00976	PASS
					0	2.96	0.00420	PASS
					10	21.28	0.03023	PASS
					20	1.64	0.00234	PASS
					30	8.71	0.01237	PASS
					40	-9.40	-0.01335	PASS
					50	22.68	0.03222	PASS
			MCH	VN	-30	-9.53	-0.01347	PASS
					-20	24.29	0.03434	PASS
					-10	-1.89	-0.00267	PASS
					0	-4.93	-0.00697	PASS
					10	-0.67	-0.00094	PASS
					20	17.60	0.02487	PASS
					30	9.52	0.01346	PASS
					40	22.98	0.03248	PASS
					50	20.35	0.02876	PASS
			HCH	VN	-30	11.24	0.01581	PASS
					-20	12.85	0.01808	PASS
					-10	17.47	0.02456	PASS
					0	-10.28	-0.01446	PASS
					10	14.29	0.02010	PASS
					20	11.98	0.01684	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	-7.71	-0.01085	PASS
					40	13.51	0.01901	PASS
					50	-8.36	-0.01176	PASS
			LCH	VN	-30	7.94	0.01135	PASS
					-20	24.26	0.03468	PASS
					-10	13.14	0.01878	PASS
					0	15.19	0.02171	PASS
					10	13.53	0.01934	PASS
					20	12.75	0.01822	PASS
					30	-10.76	-0.01537	PASS
					40	-1.82	-0.00260	PASS
					50	17.77	0.02540	PASS
			MCH	VN	-30	10.97	0.01550	PASS
					-20	19.47	0.02752	PASS
					-10	24.84	0.03510	PASS
					0	16.86	0.02383	PASS
					10	-2.06	-0.00291	PASS
					20	15.09	0.02133	PASS
					30	1.04	0.00147	PASS
					40	24.07	0.03402	PASS
					50	-5.24	-0.00741	PASS
			HCH	VN	-30	22.99	0.03214	PASS
					-20	8.34	0.01166	PASS
					-10	1.12	0.00157	PASS
					0	18.55	0.02593	PASS
					10	12.68	0.01773	PASS
					20	-13.02	-0.01821	PASS
					30	-8.47	-0.01184	PASS
					40	-6.93	-0.00969	PASS
					50	24.85	0.03474	PASS
		3	LCH	VN	-30	10.19	0.01455	PASS
					-20	-7.69	-0.01097	PASS
					-10	-3.19	-0.00456	PASS
					0	0.73	0.00105	PASS
					10	5.11	0.00729	PASS
					20	-10.50	-0.01498	PASS
					30	14.83	0.02118	PASS
					40	10.98	0.01567	PASS
					50	-5.32	-0.00759	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	VN	-30	-8.16	-0.01153	PASS
					-20	22.80	0.03222	PASS
					-10	-7.78	-0.01100	PASS
					0	8.75	0.01237	PASS
					10	-14.19	-0.02005	PASS
					20	-8.12	-0.01147	PASS
					30	5.20	0.00735	PASS
					40	8.84	0.01249	PASS
					50	12.74	0.01801	PASS
			HCH	VN	-30	13.76	0.01926	PASS
					-20	-1.05	-0.00147	PASS
					-10	-5.80	-0.00811	PASS
					0	-12.59	-0.01762	PASS
					10	1.86	0.00261	PASS
					20	0.97	0.00135	PASS
					30	-7.49	-0.01048	PASS
					40	-6.13	-0.00858	PASS
					50	22.17	0.03104	PASS
		5	LCH	VN	-30	-11.61	-0.01655	PASS
					-20	-2.96	-0.00421	PASS
					-10	24.95	0.03556	PASS
					0	12.03	0.01715	PASS
					10	11.25	0.01604	PASS
					20	11.14	0.01589	PASS
					30	-5.13	-0.00731	PASS
					40	-5.33	-0.00759	PASS
					50	17.97	0.02562	PASS
			MCH	VN	-30	23.29	0.03291	PASS
					-20	0.92	0.00129	PASS
					-10	2.06	0.00291	PASS
					0	23.16	0.03273	PASS
					10	12.63	0.01785	PASS
					20	-11.15	-0.01576	PASS
					30	6.89	0.00974	PASS
					40	9.08	0.01283	PASS
					50	19.37	0.02738	PASS
			HCH	VN	-30	1.26	0.00177	PASS
					-20	2.15	0.00302	PASS
					-10	0.11	0.00016	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-7.73	-0.01083	PASS
					10	11.44	0.01604	PASS
					20	17.52	0.02456	PASS
					30	8.69	0.01217	PASS
					40	20.16	0.02825	PASS
					50	-3.99	-0.00560	PASS
		10	LCH	VN	-30	21.67	0.03078	PASS
					-20	9.45	0.01342	PASS
					-10	12.07	0.01715	PASS
					0	12.46	0.01769	PASS
					10	23.30	0.03310	PASS
					20	12.50	0.01776	PASS
					30	10.81	0.01535	PASS
					40	16.47	0.02339	PASS
					50	9.10	0.01293	PASS
			MCH	VN	-30	-5.97	-0.00844	PASS
					-20	12.58	0.01778	PASS
					-10	15.32	0.02165	PASS
					0	2.79	0.00395	PASS
					10	-11.92	-0.01685	PASS
					20	21.29	0.03009	PASS
					30	-12.79	-0.01807	PASS
					40	14.59	0.02062	PASS
					50	-10.75	-0.01519	PASS
			HCH	VN	-30	14.78	0.02079	PASS
					-20	19.48	0.02740	PASS
					-10	-3.11	-0.00438	PASS
					0	-6.76	-0.00950	PASS
					10	9.11	0.01282	PASS
					20	18.11	0.02547	PASS
					30	17.78	0.02500	PASS
					40	1.61	0.00226	PASS
					50	17.30	0.02433	PASS

END