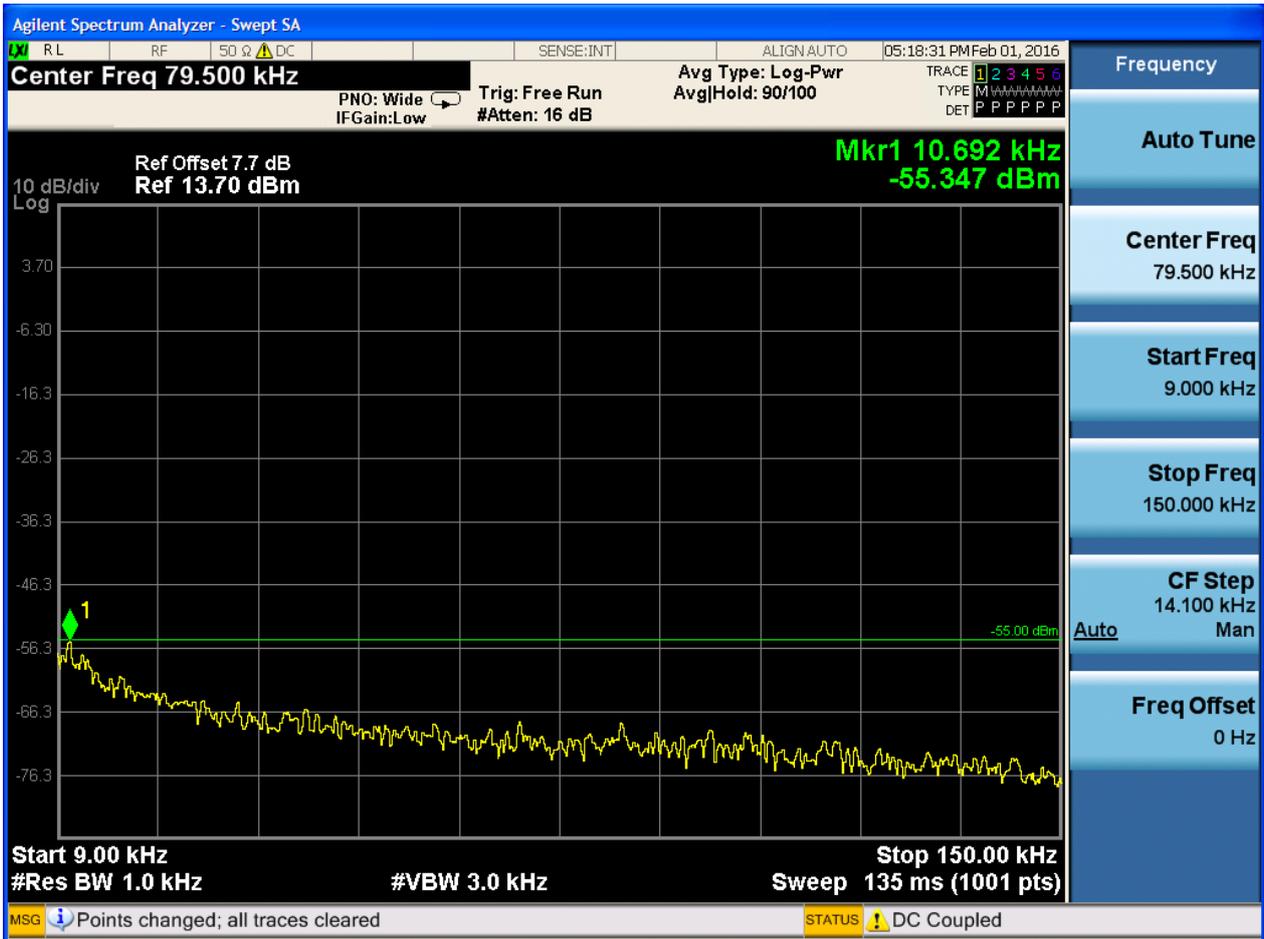




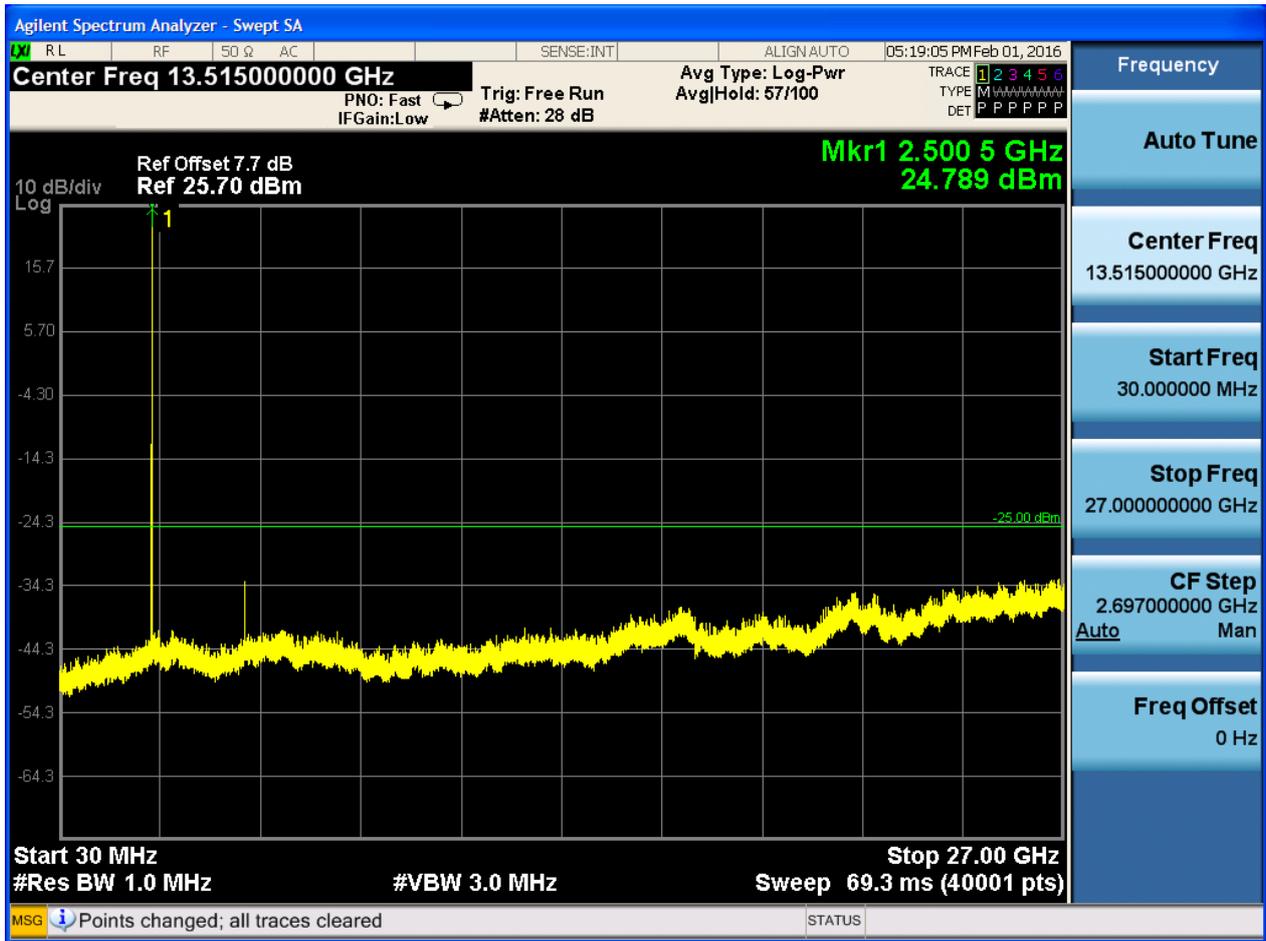
6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



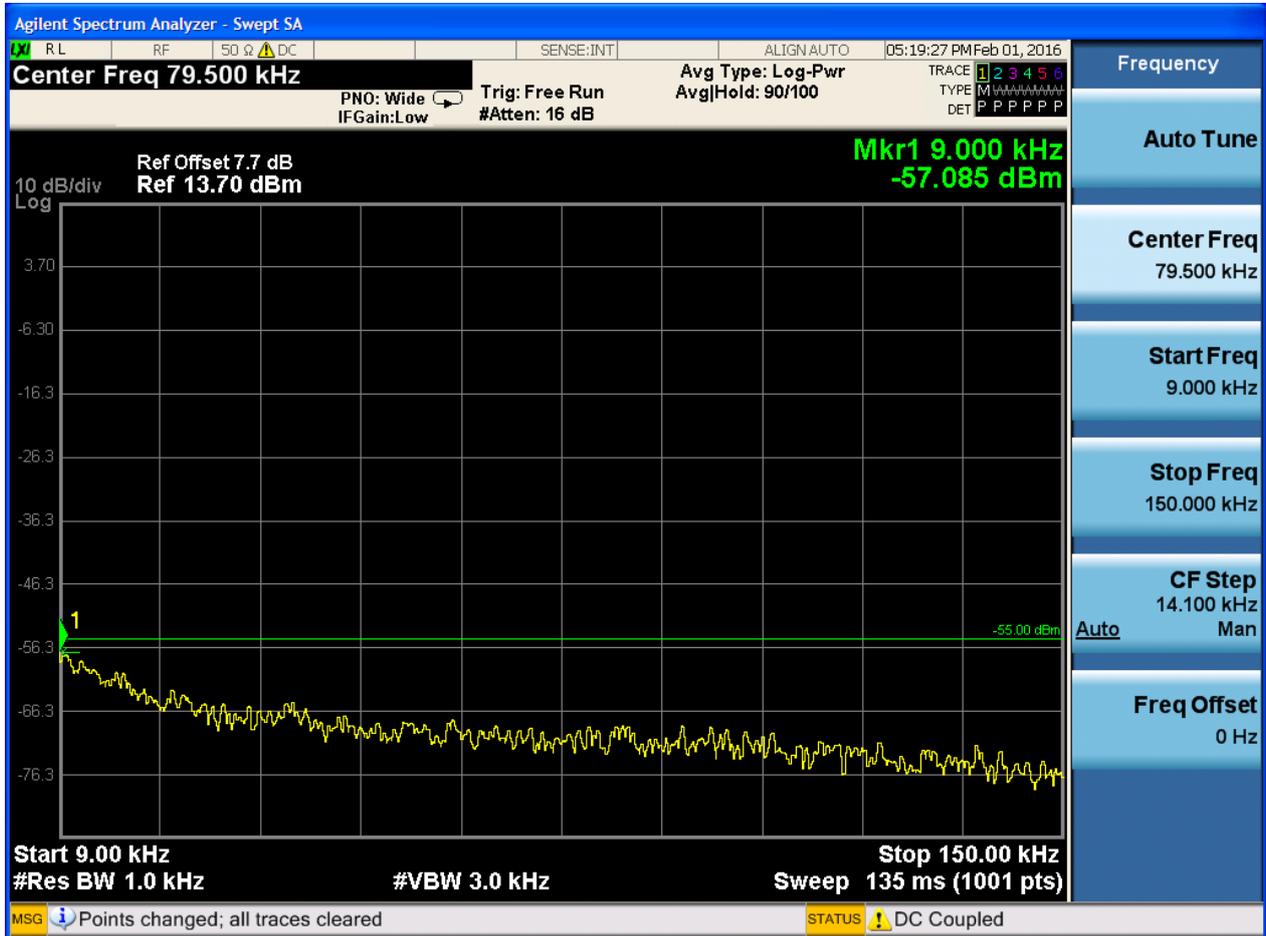


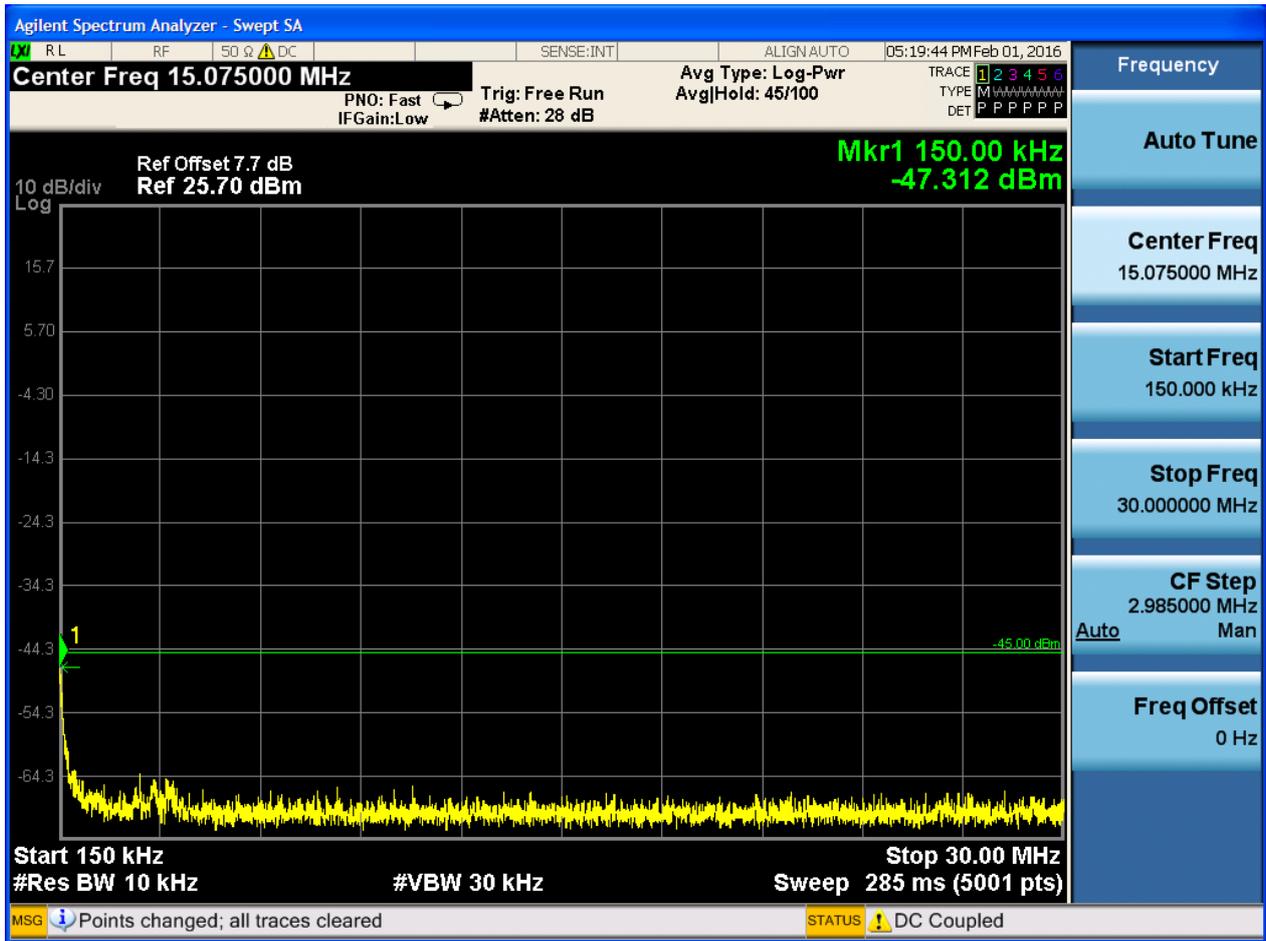


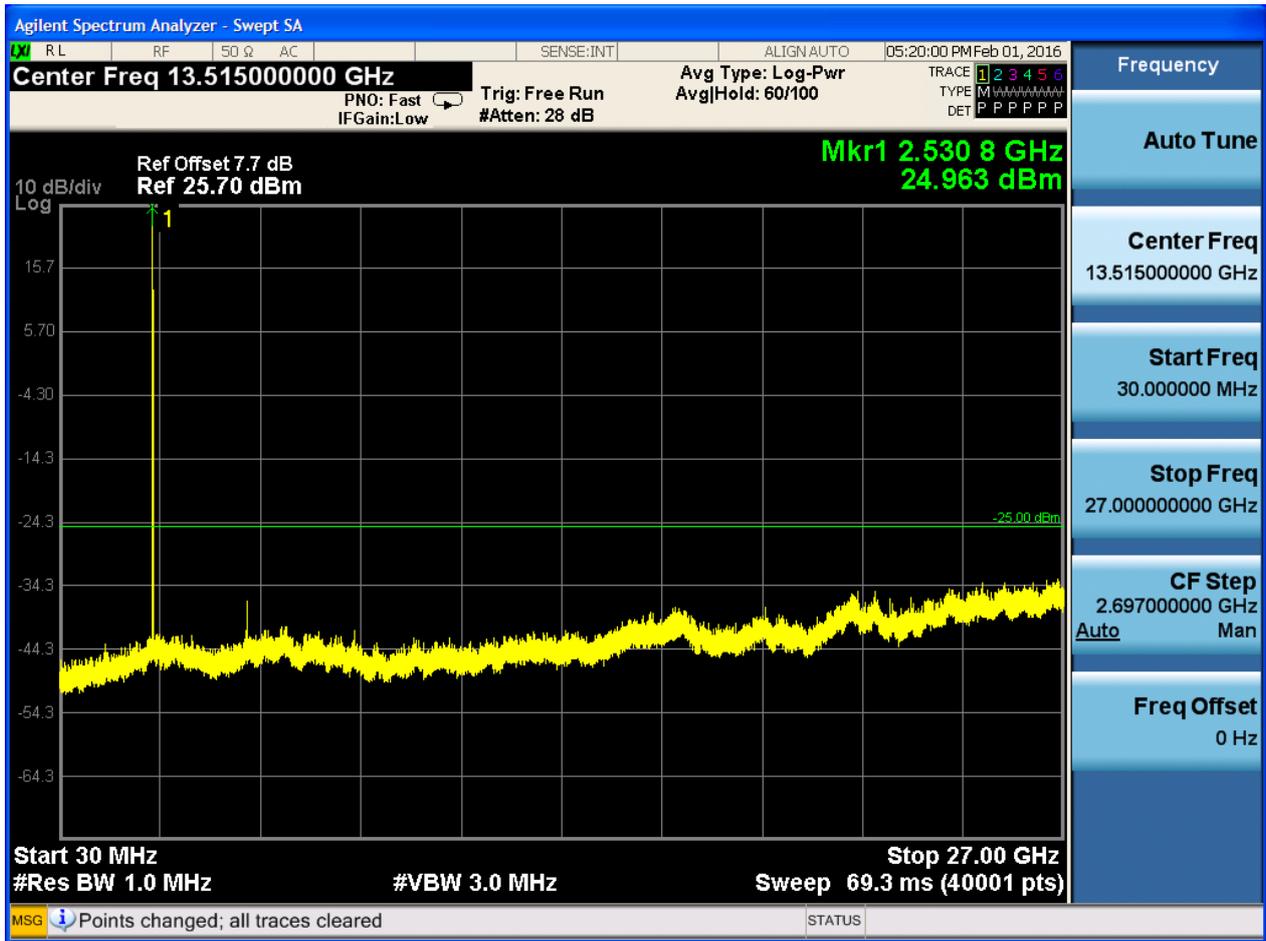


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



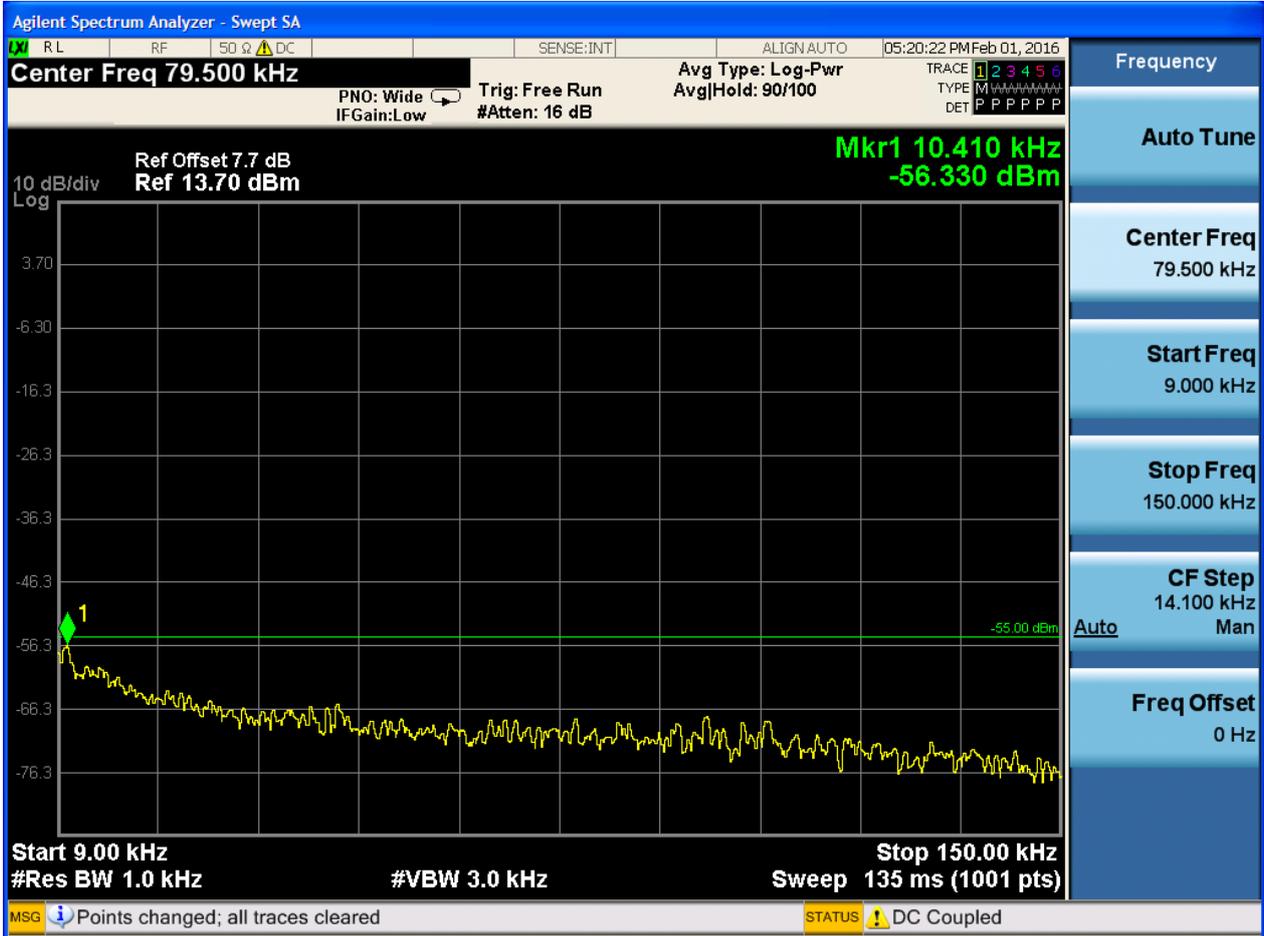




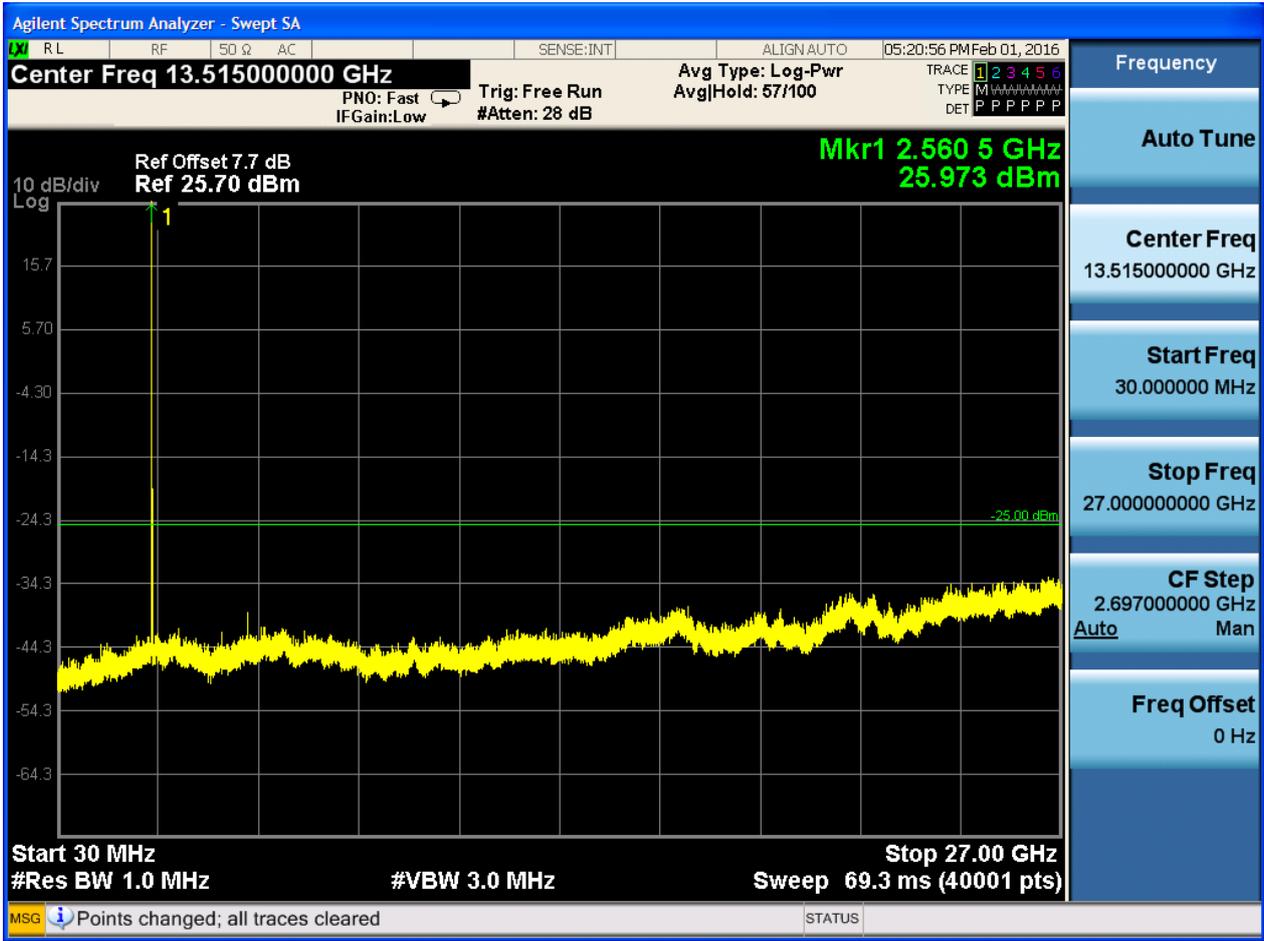


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0





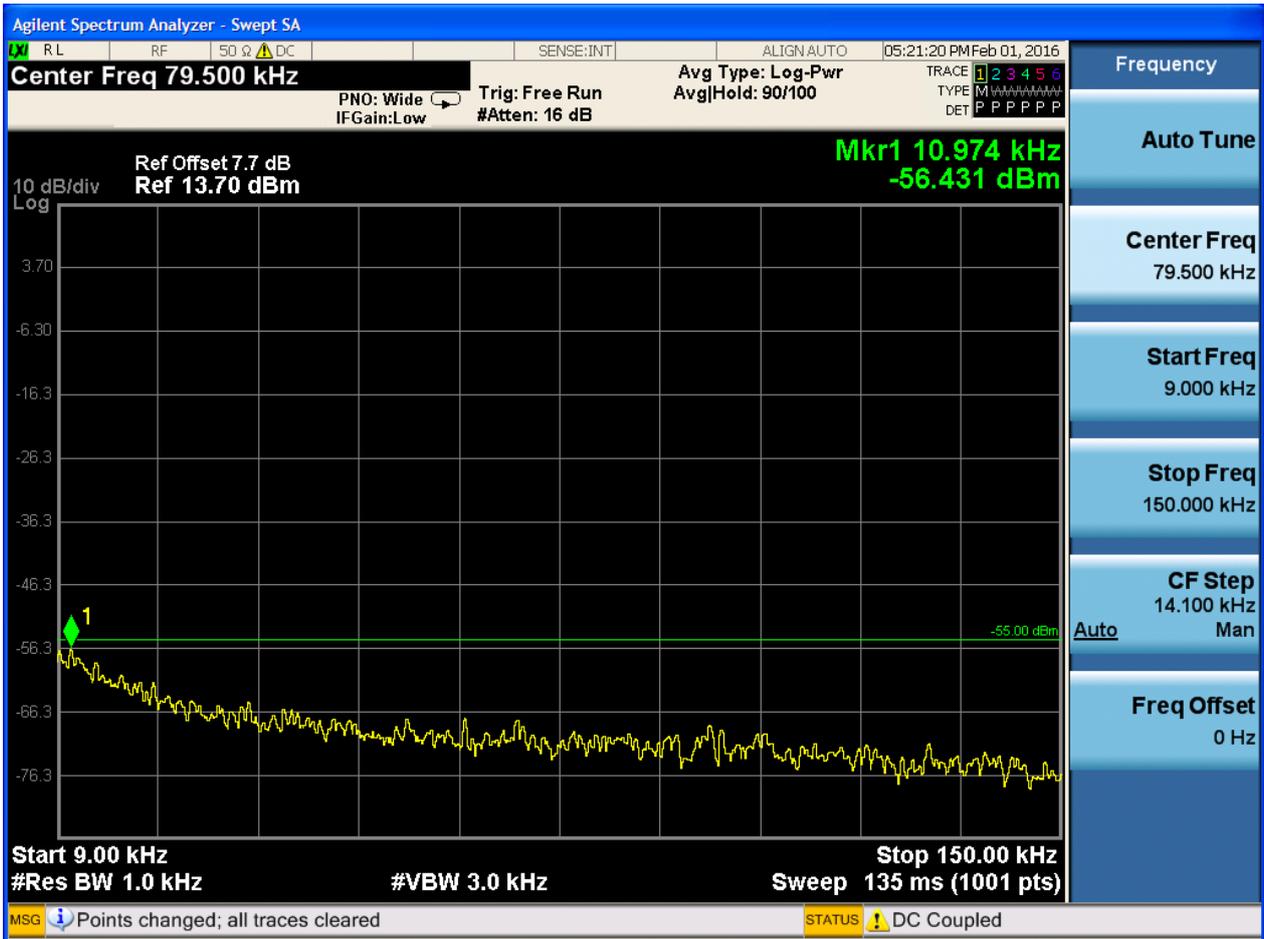


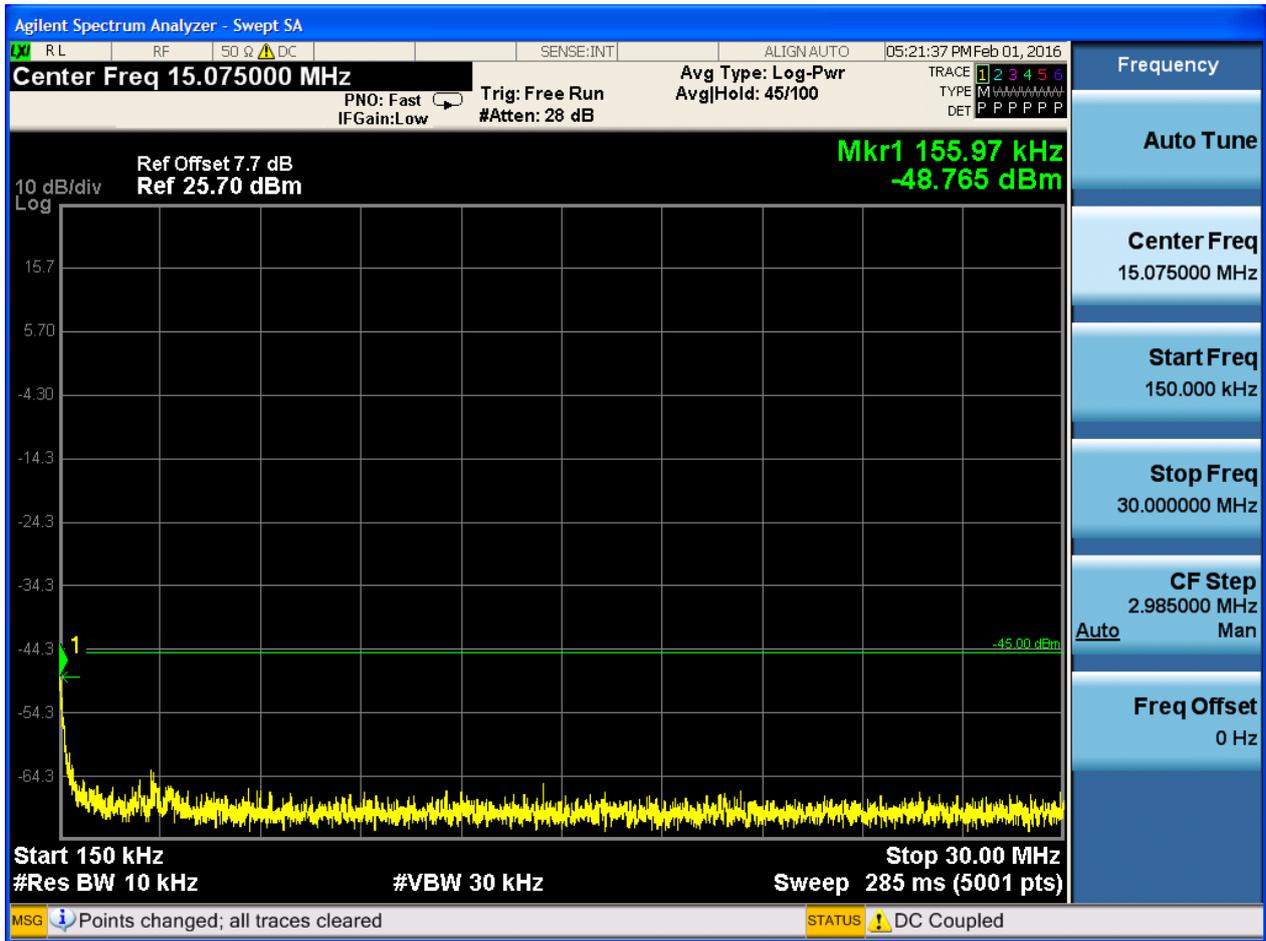


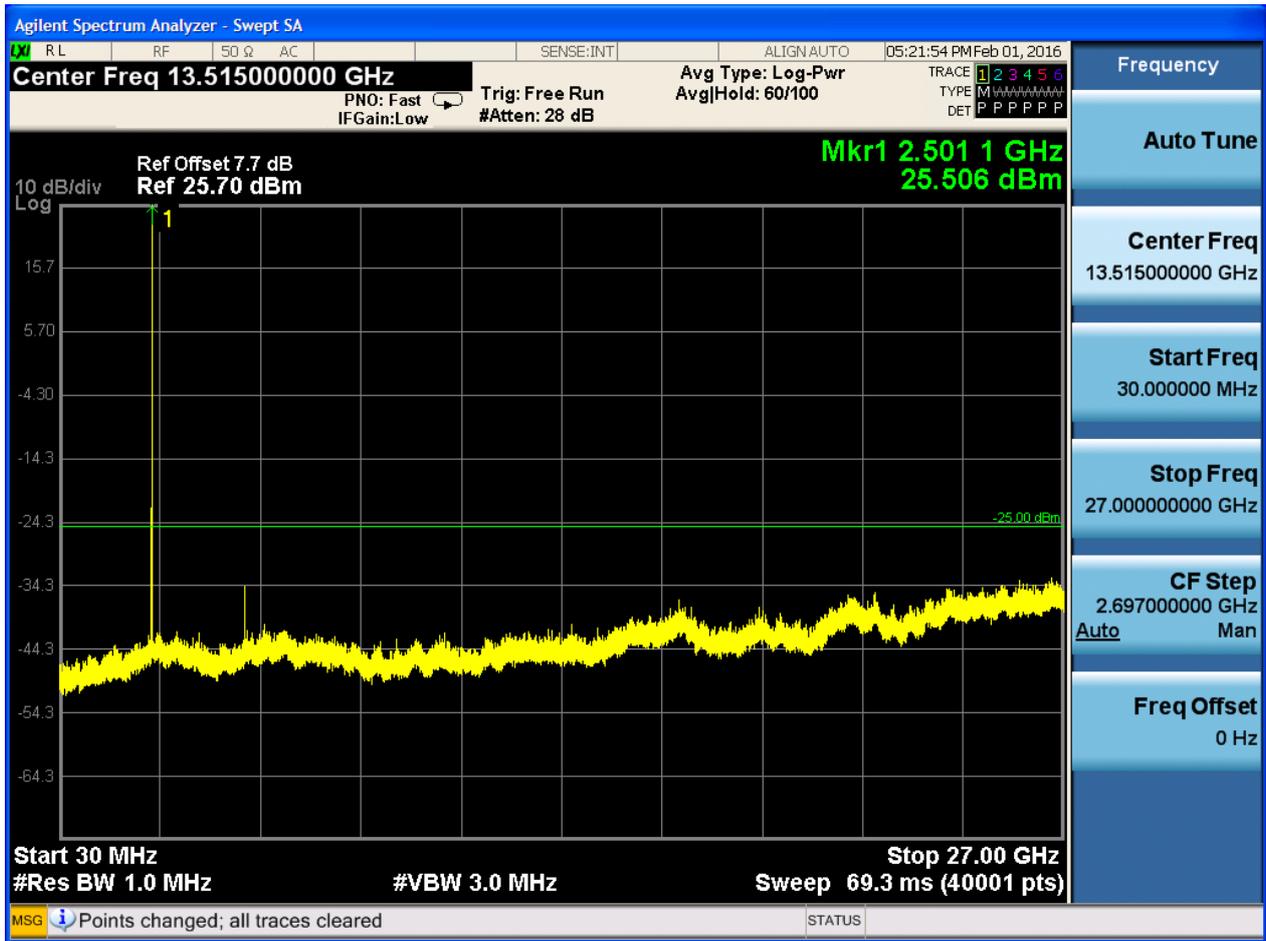
6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



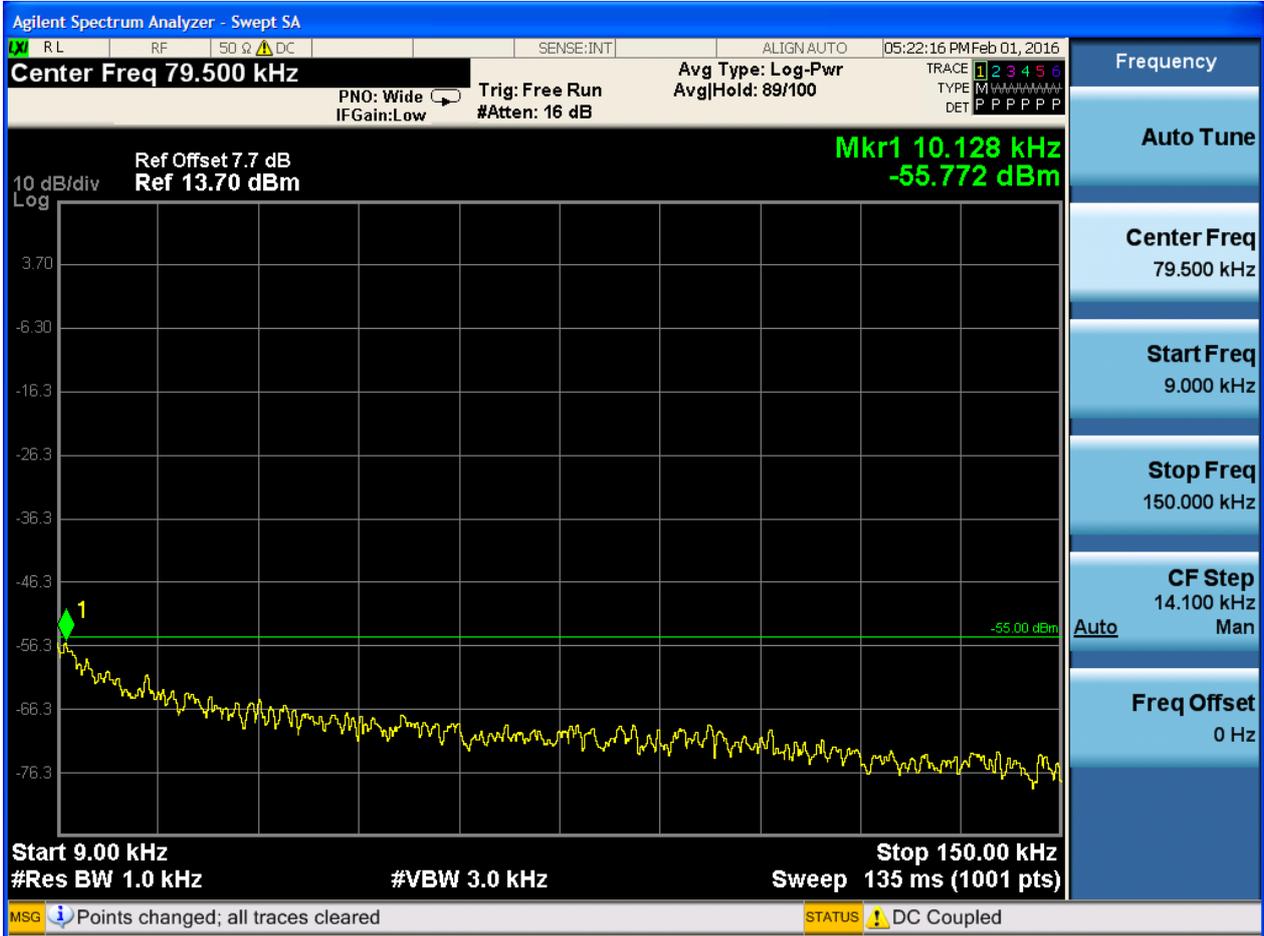




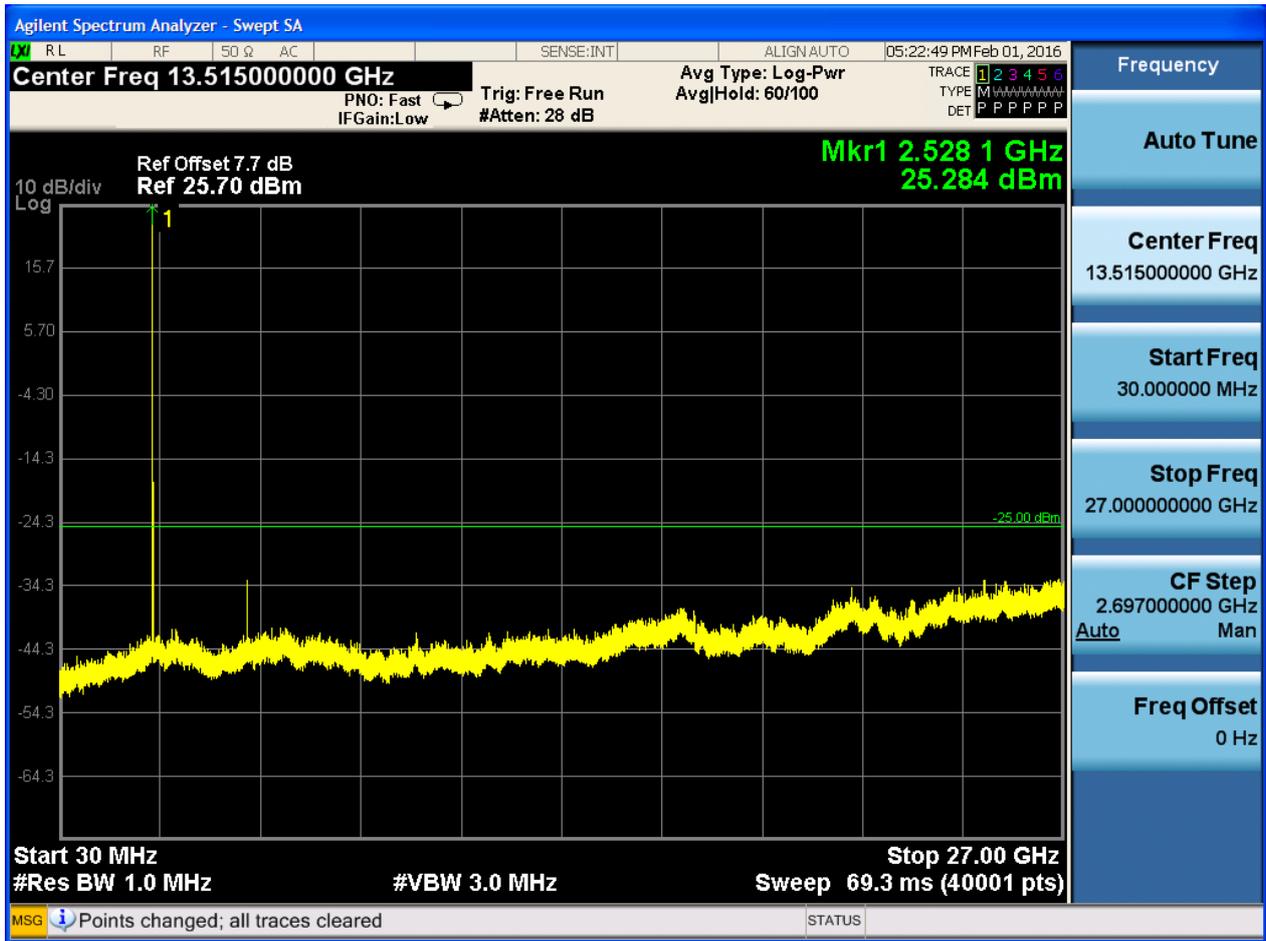


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



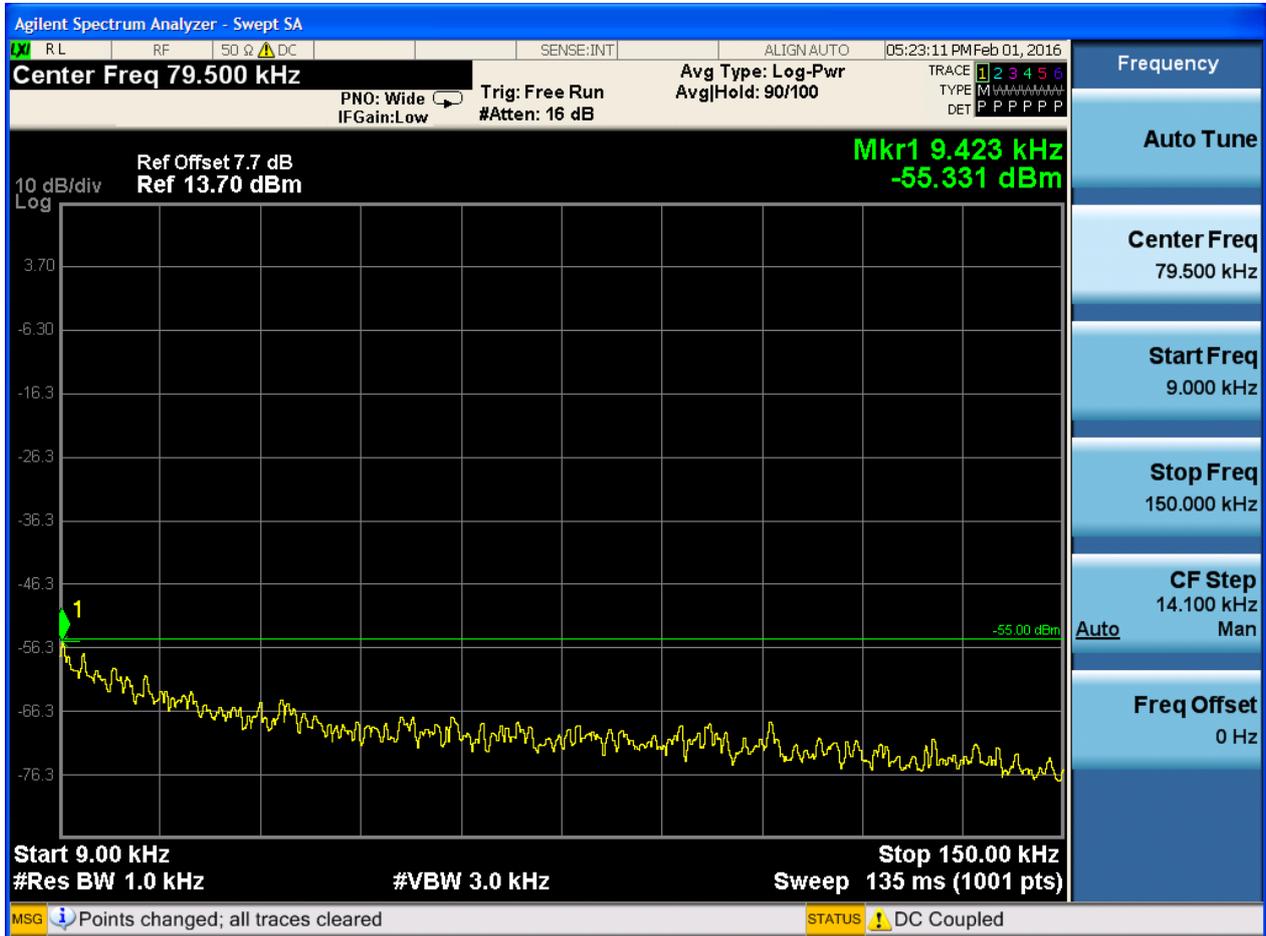




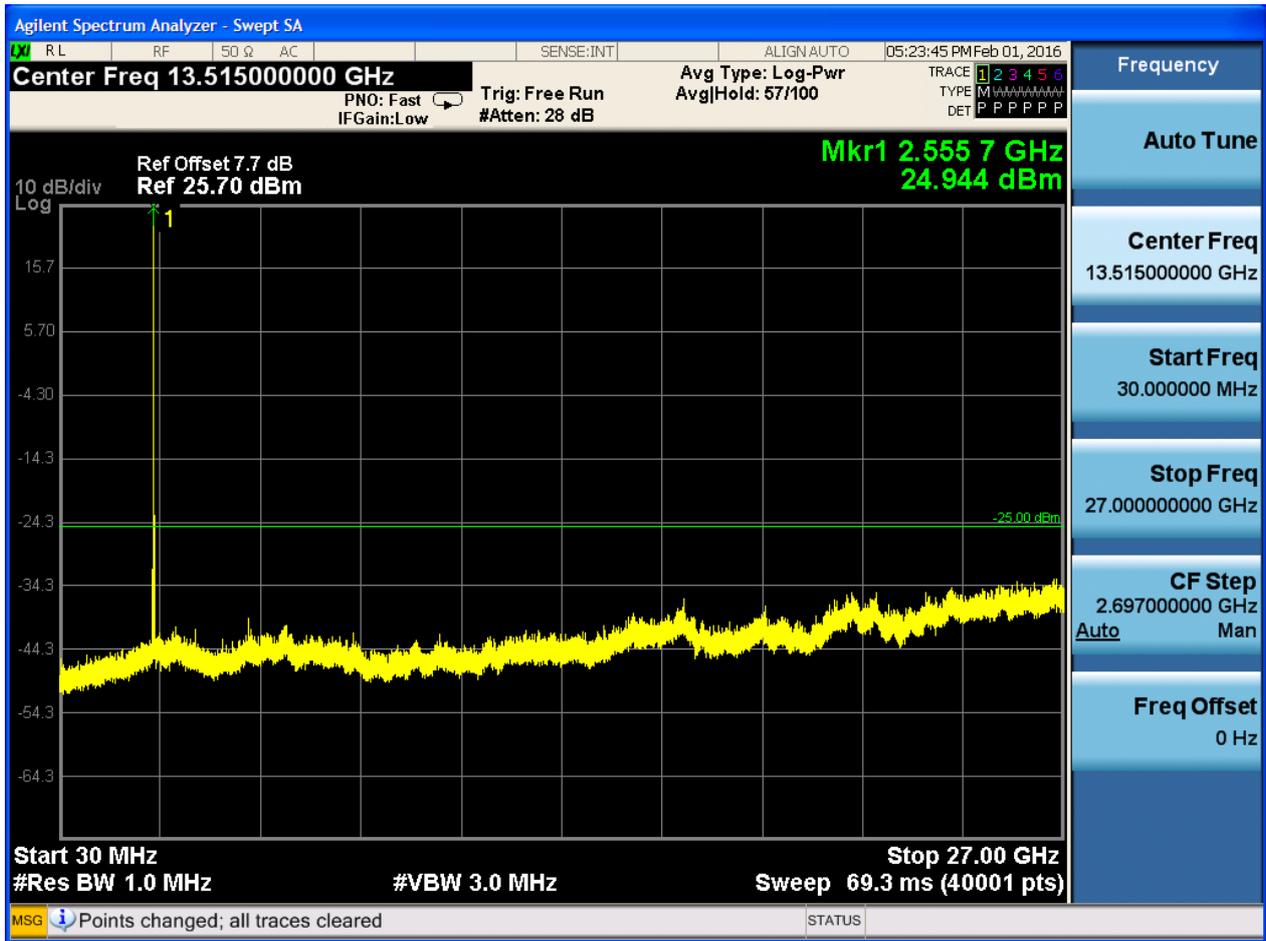


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0









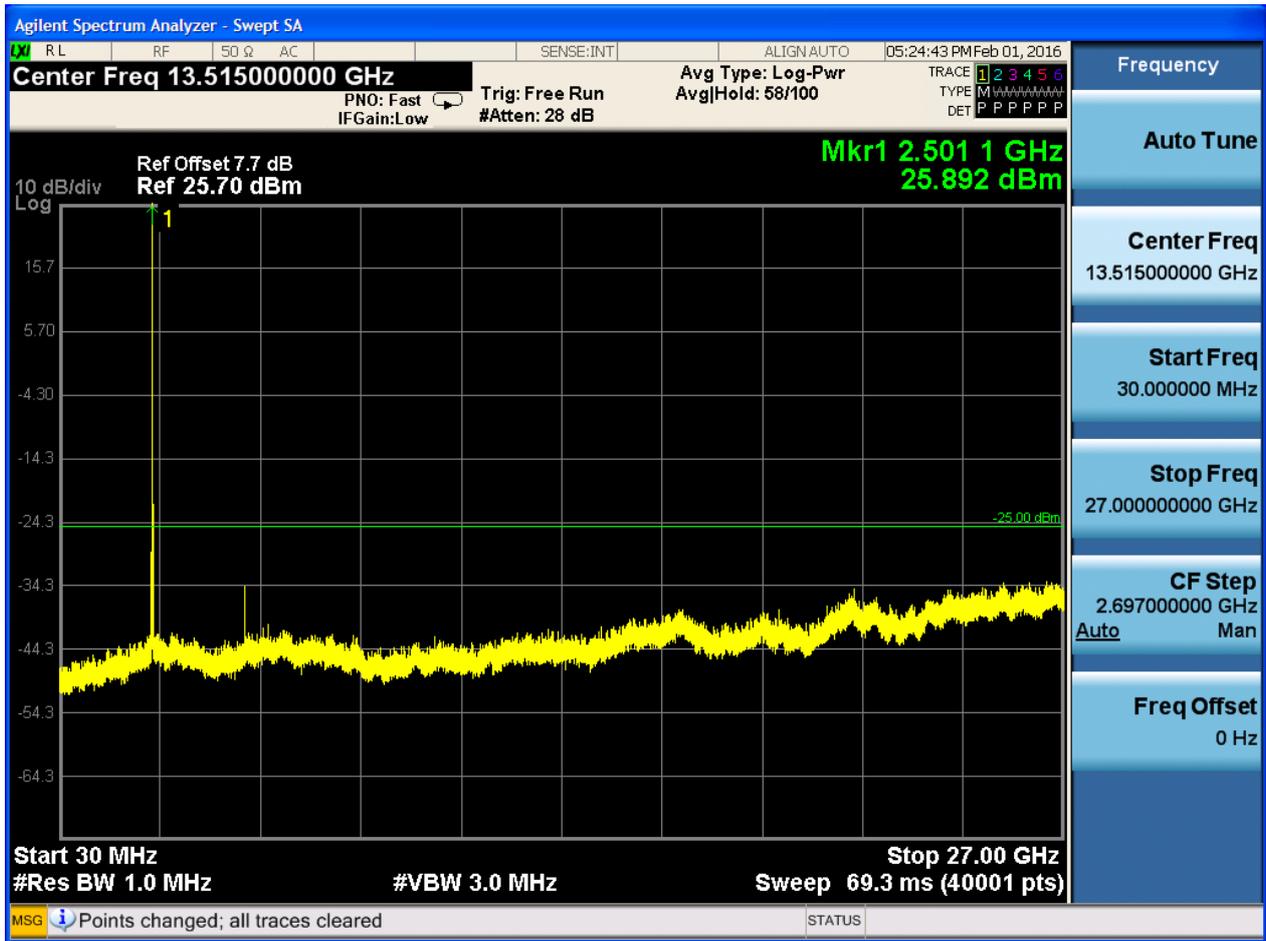
6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



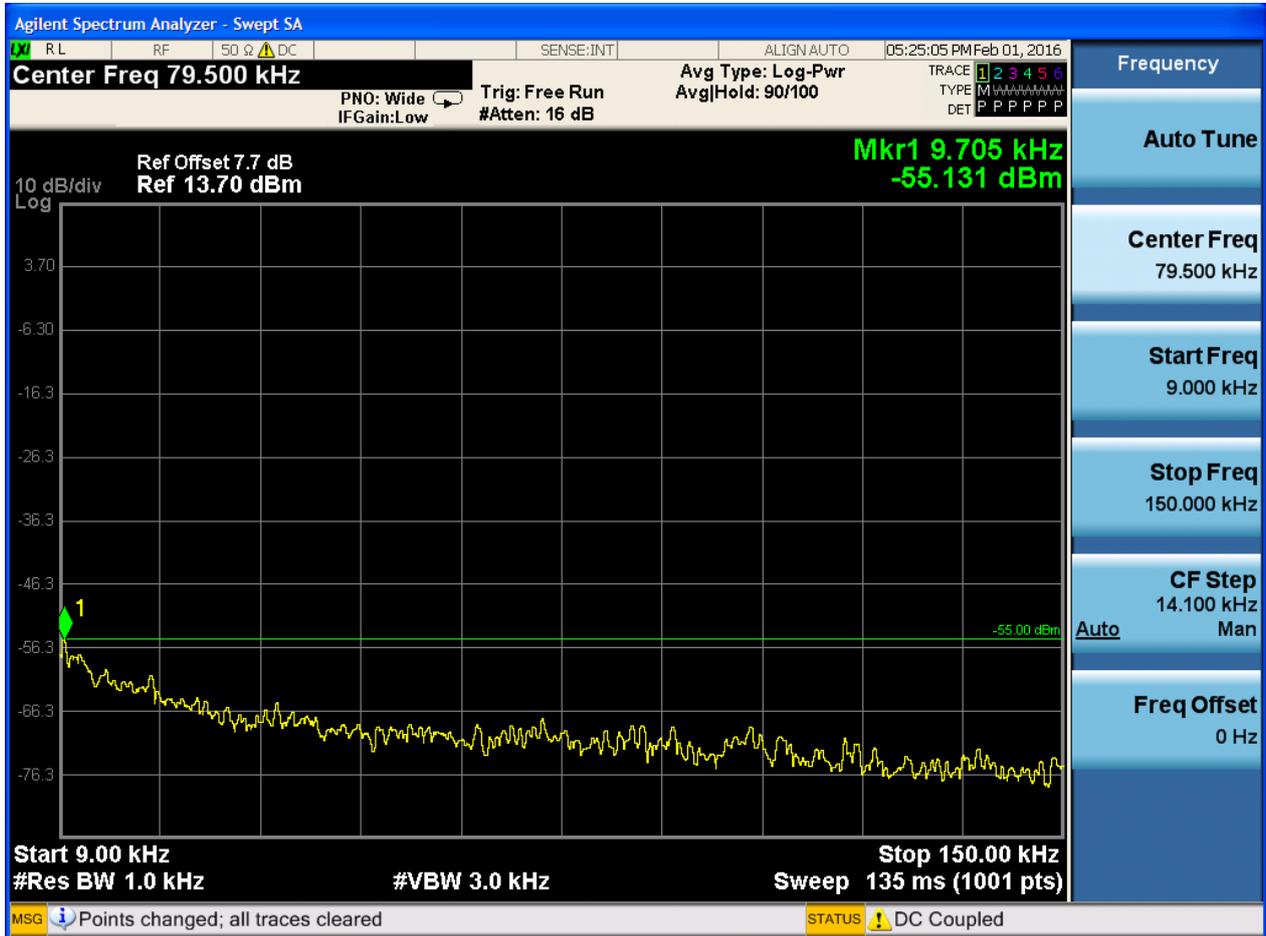


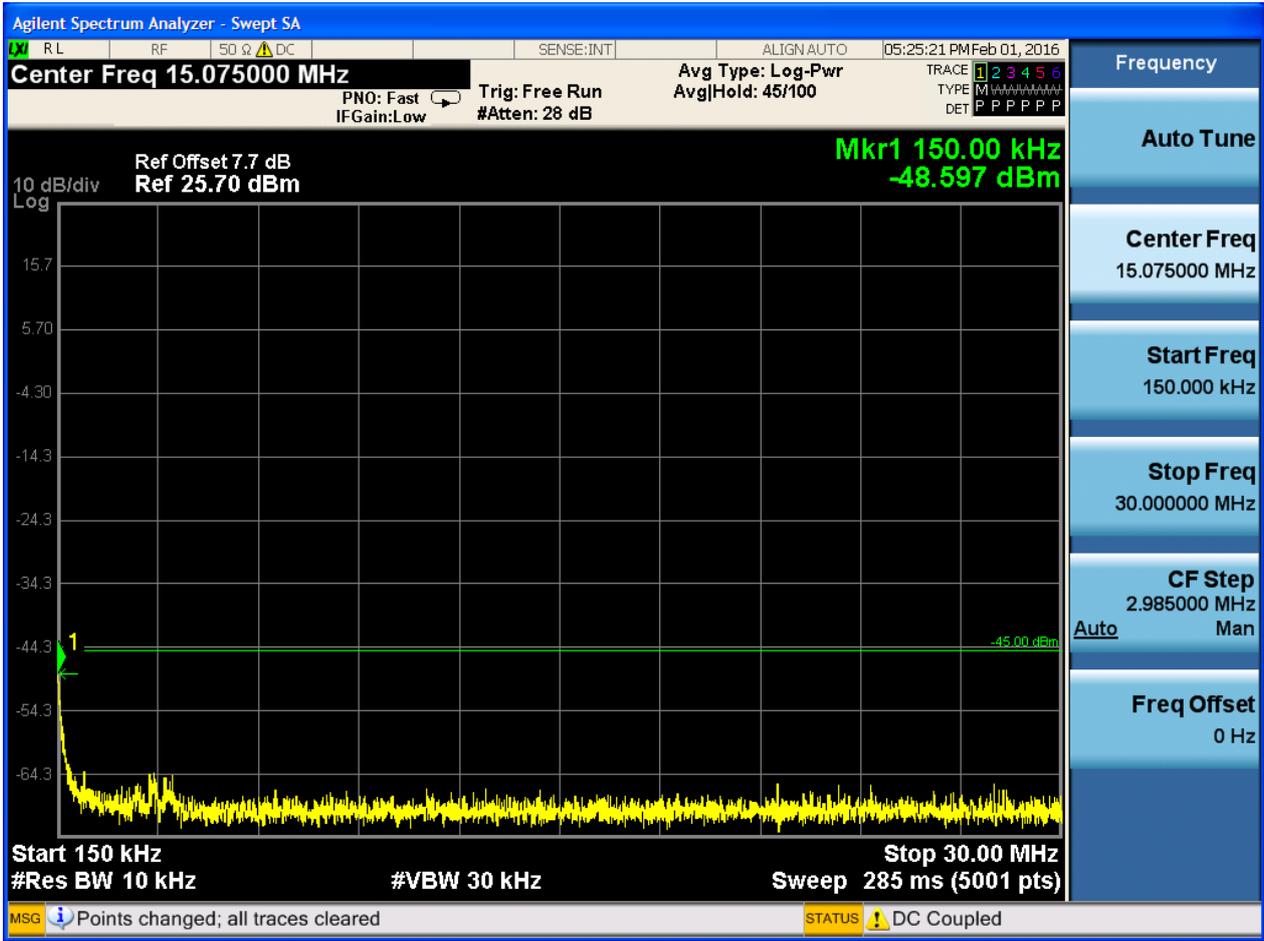


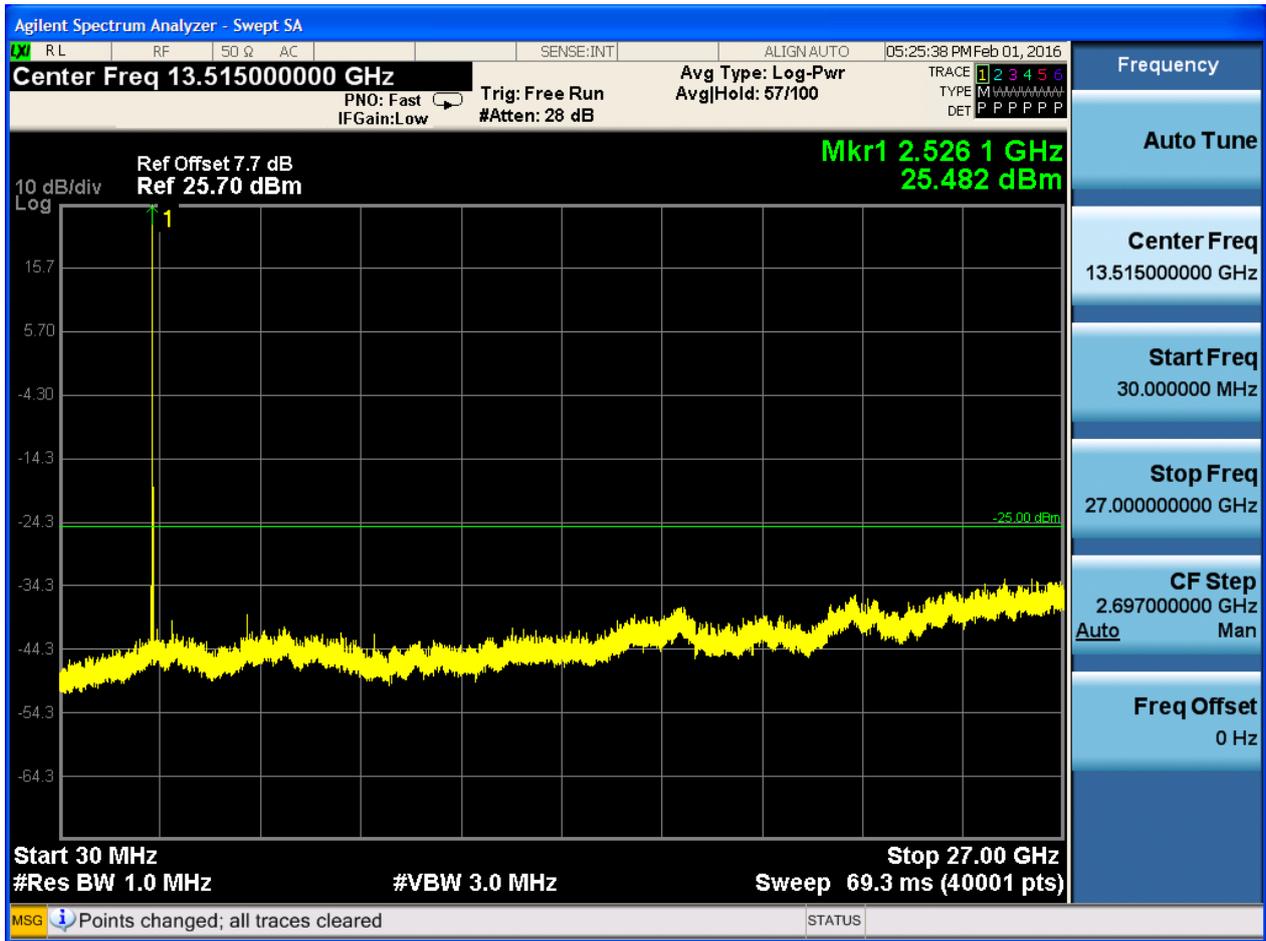


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



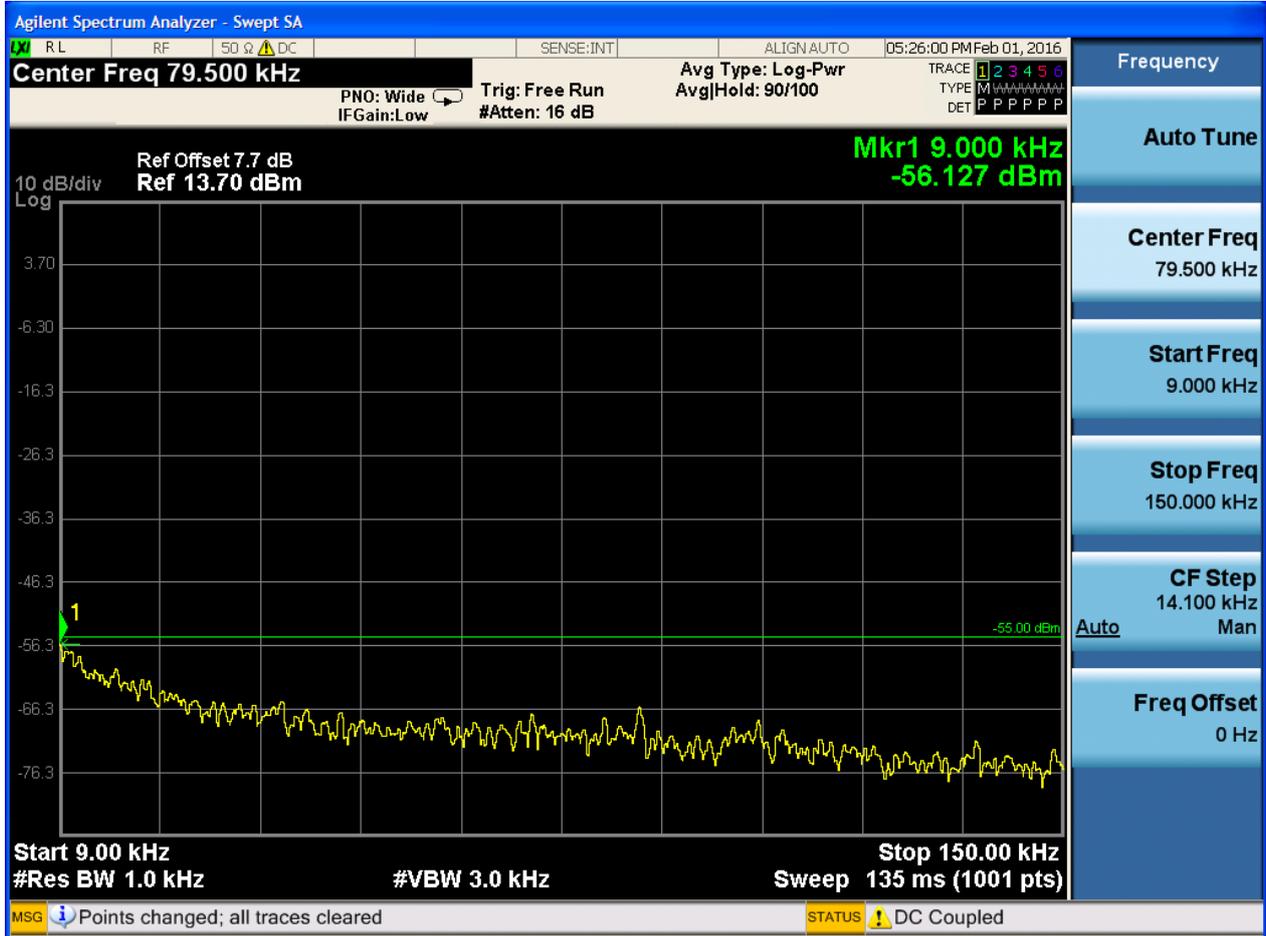




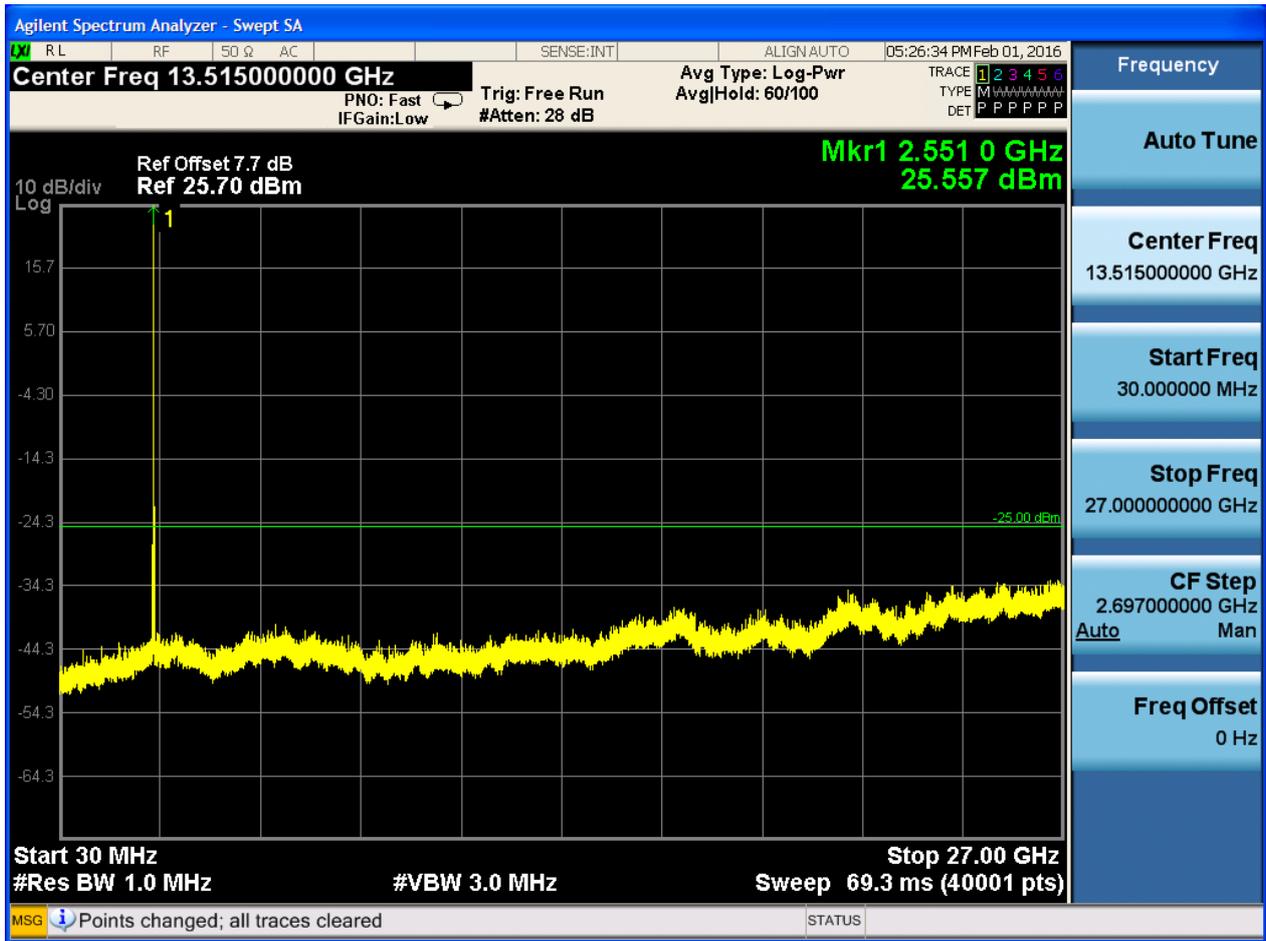


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0









6.1.1.2 Test Mode = LTE/TM2

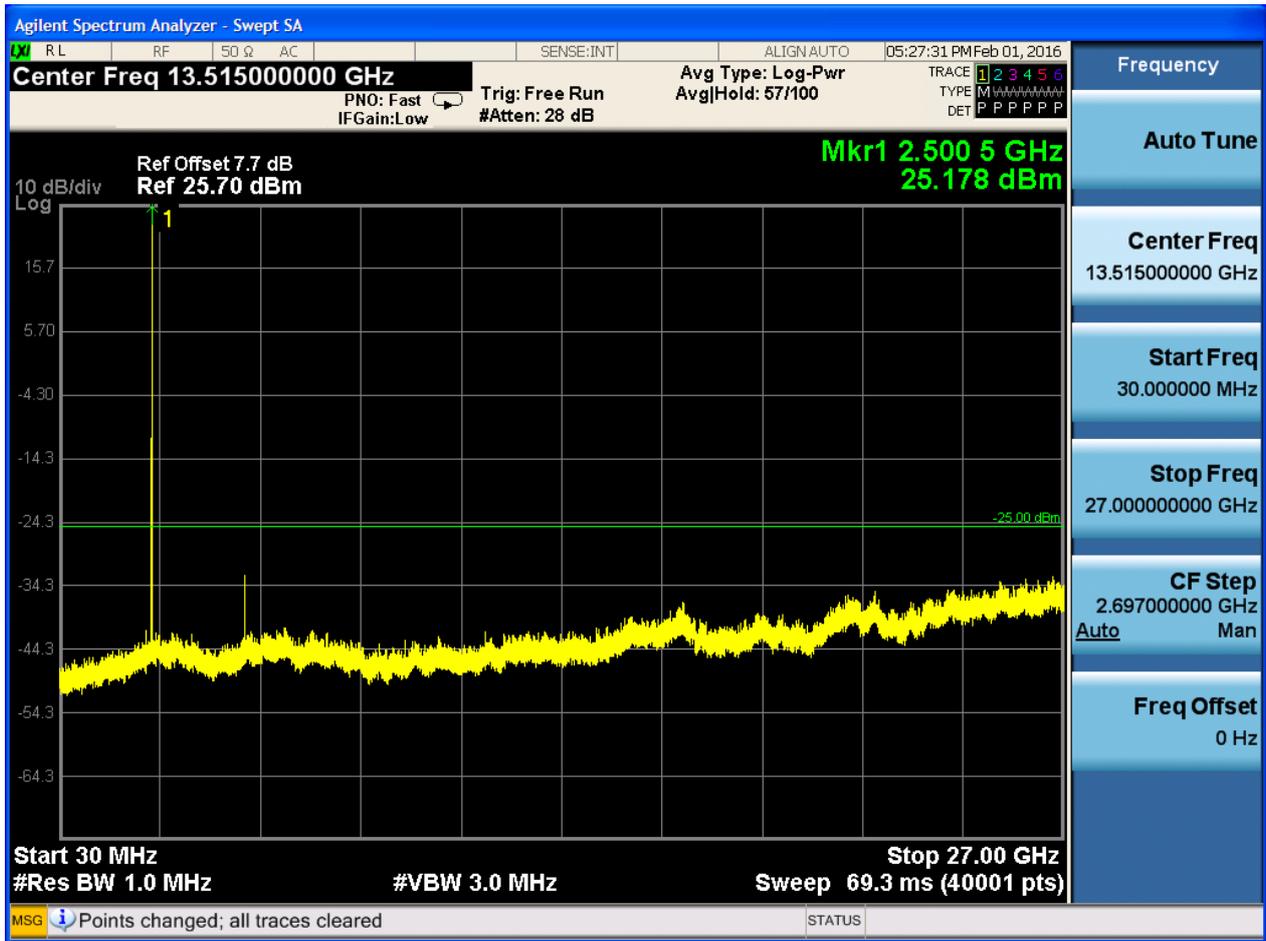
6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



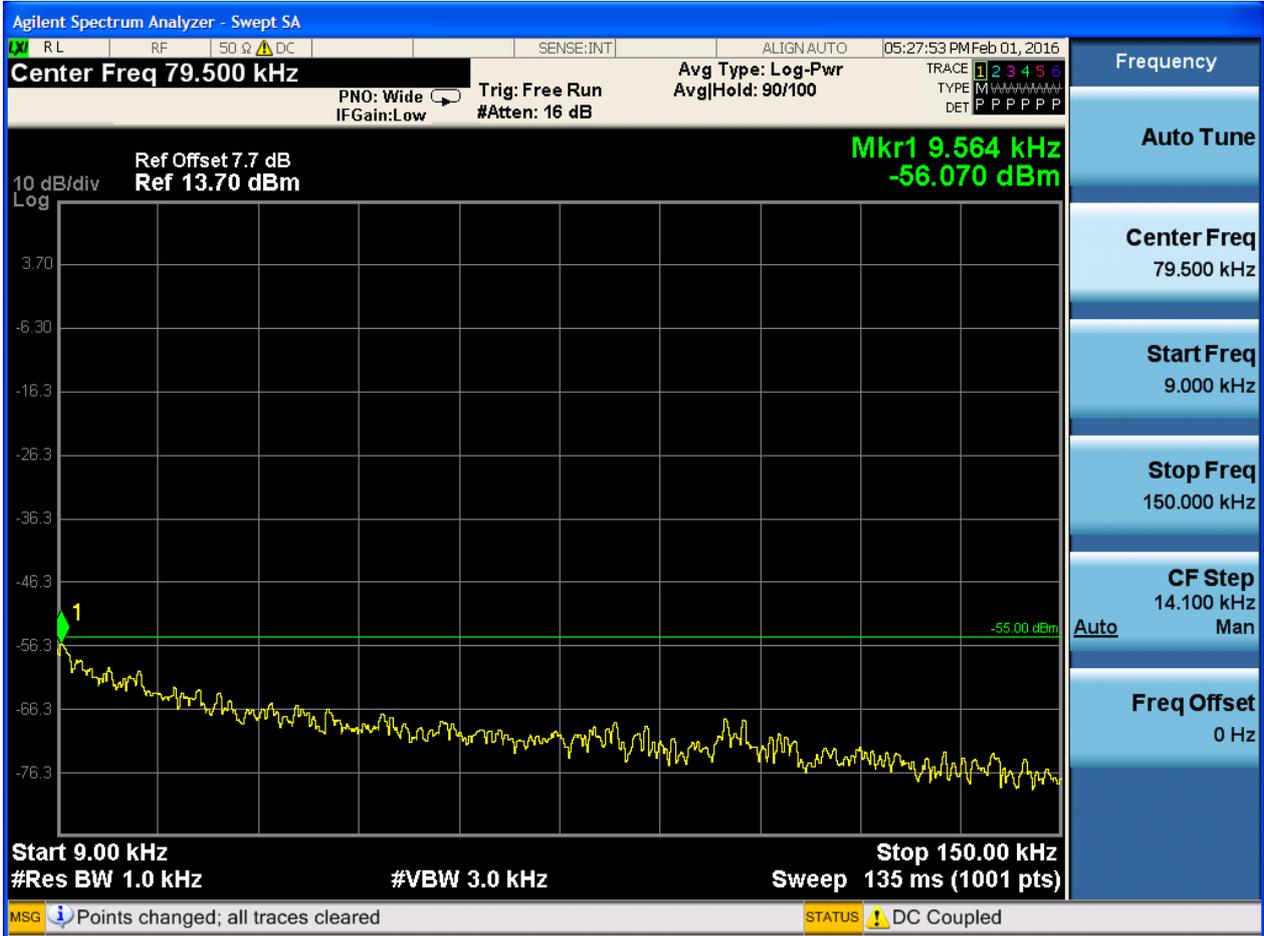


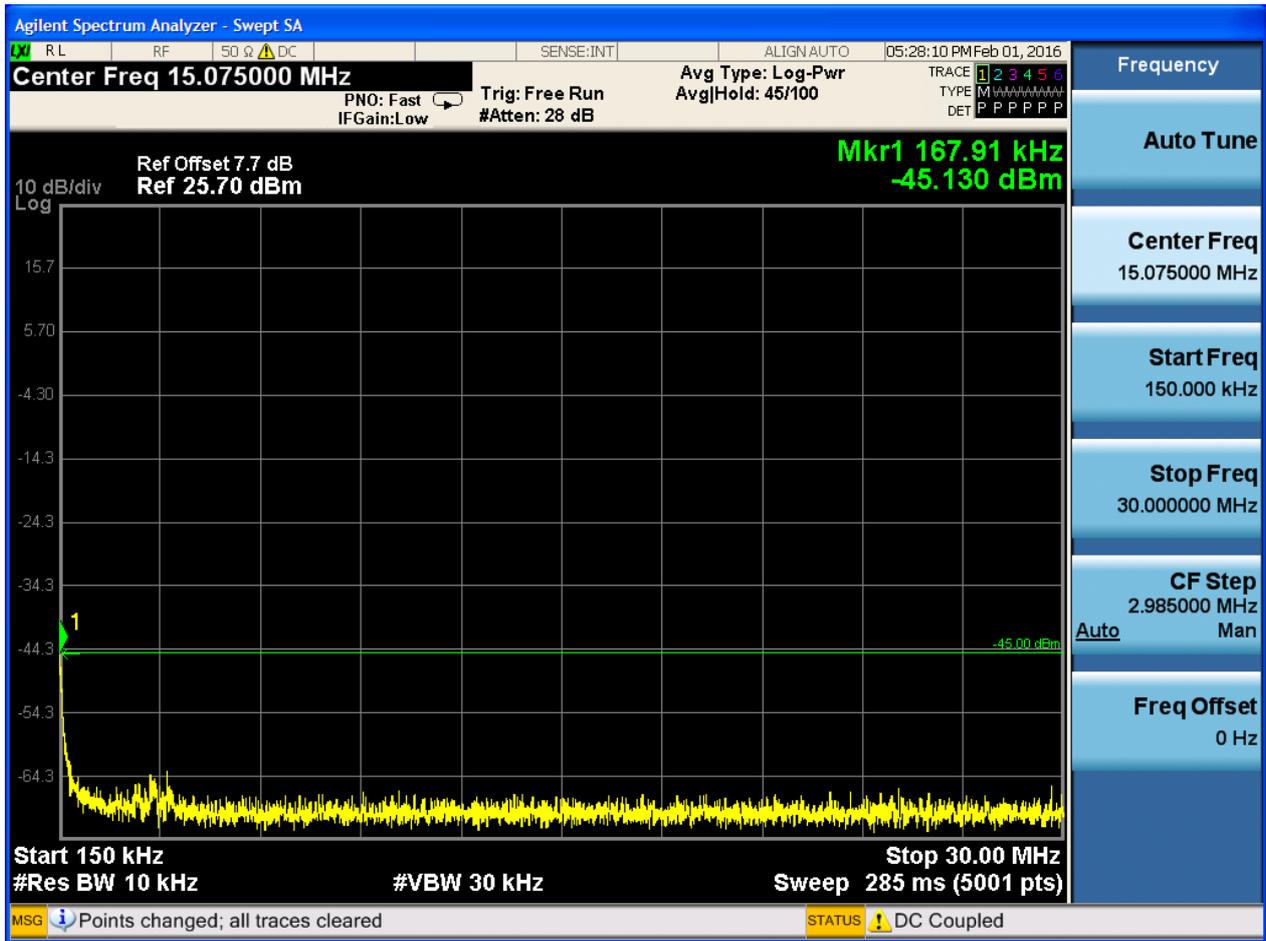




6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



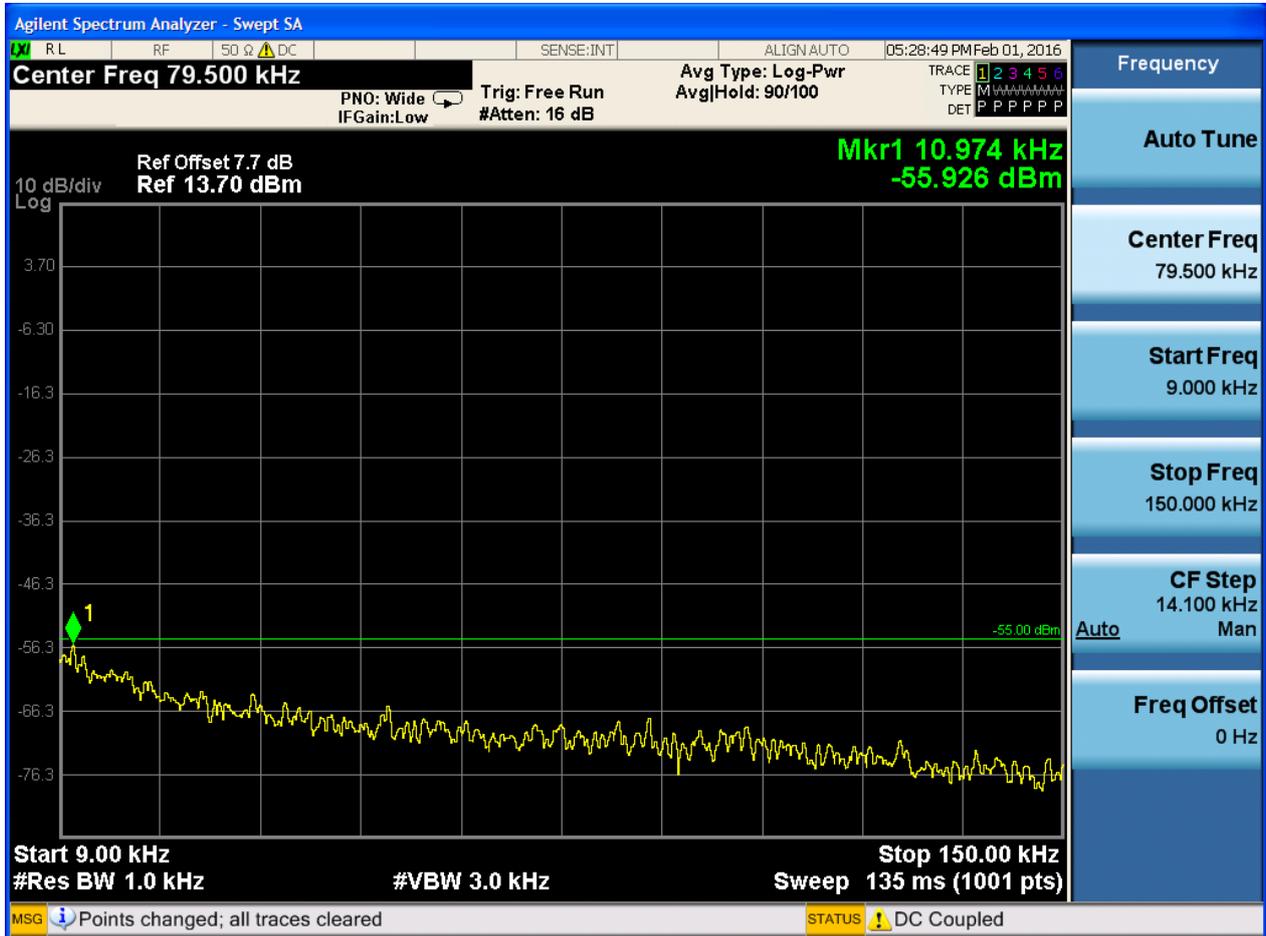




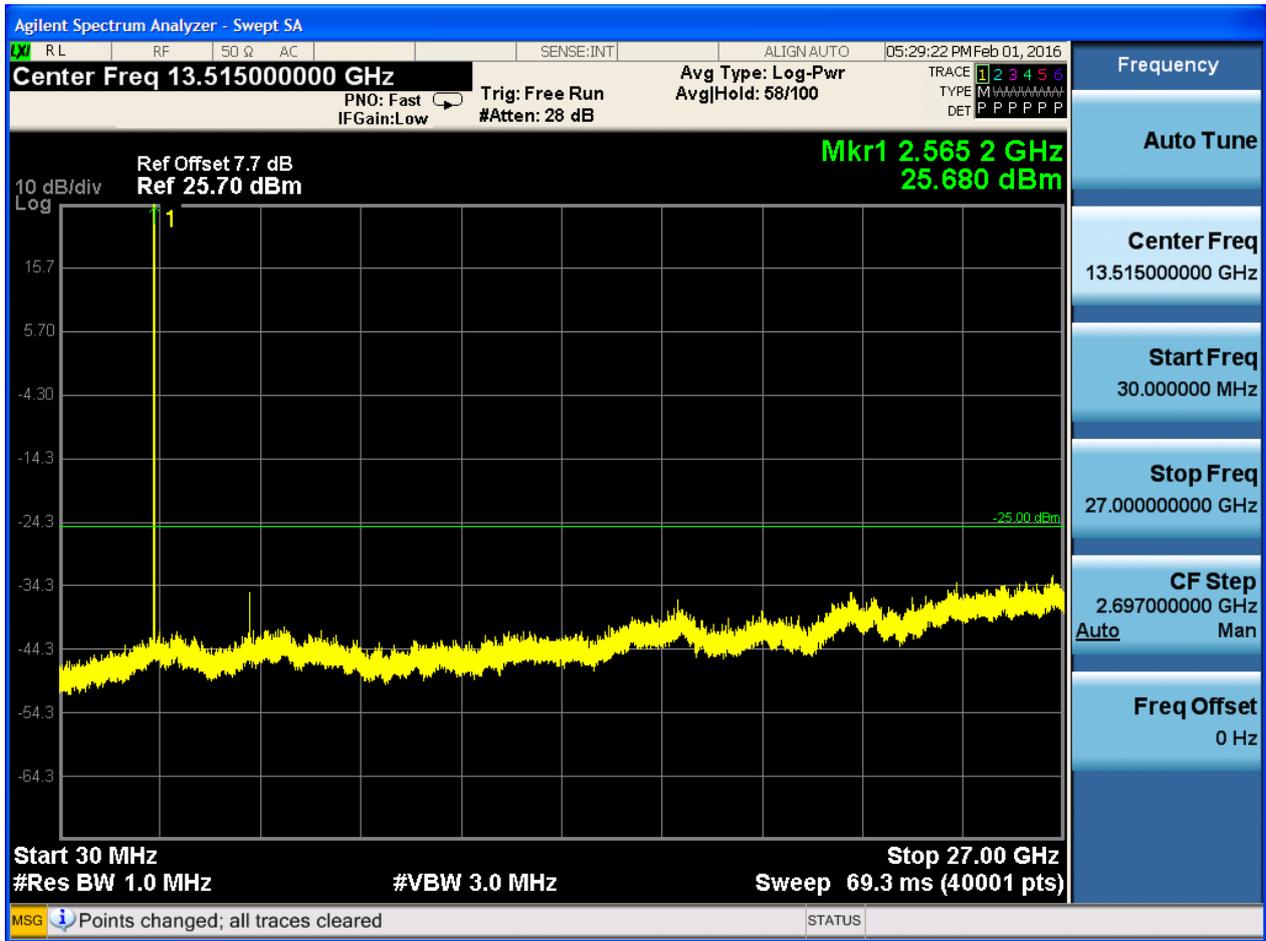


6.1.1.2.1.3 Test Channel = HCH

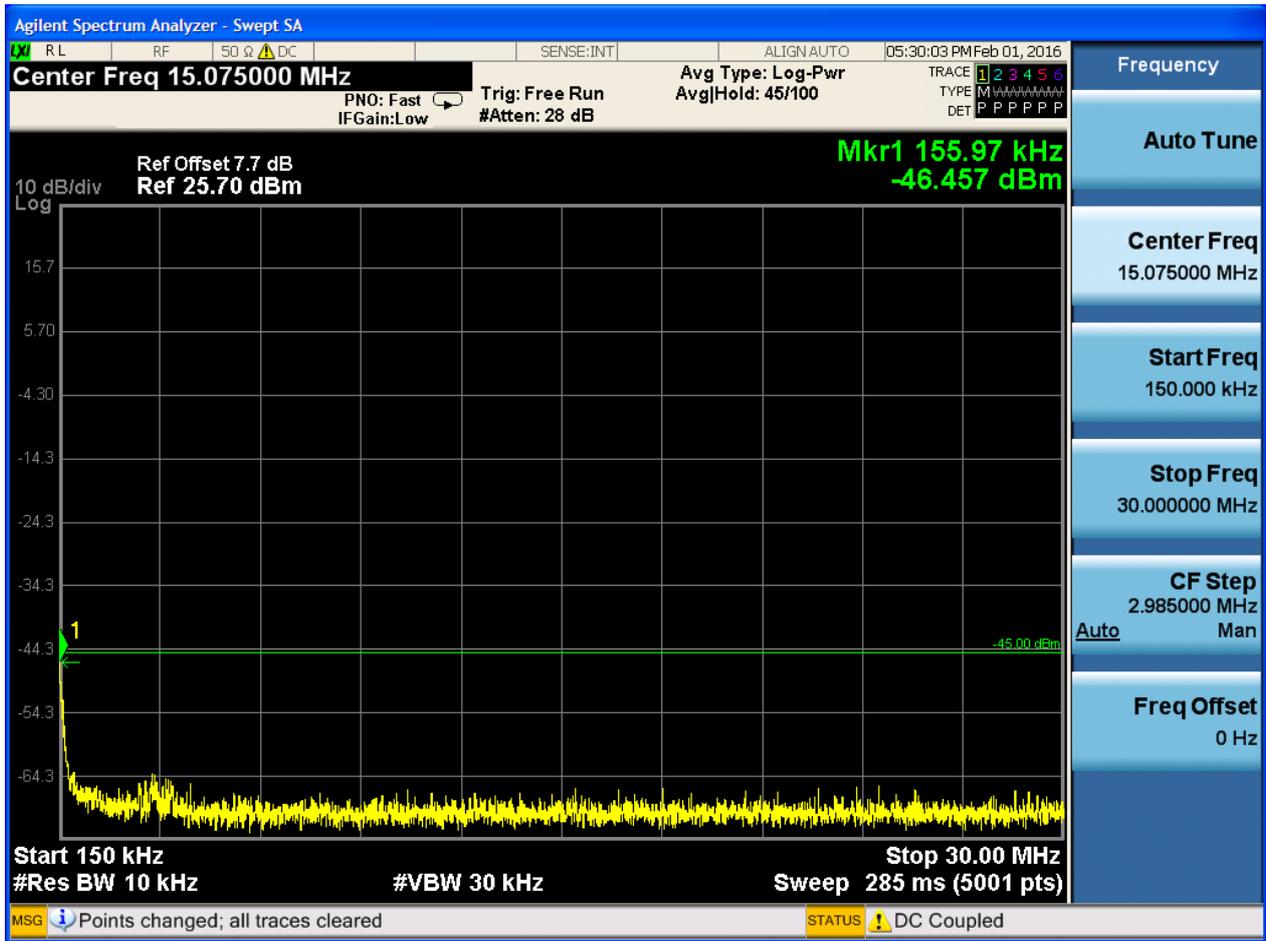
6.1.1.2.1.3.1 Test RB = RB1#0

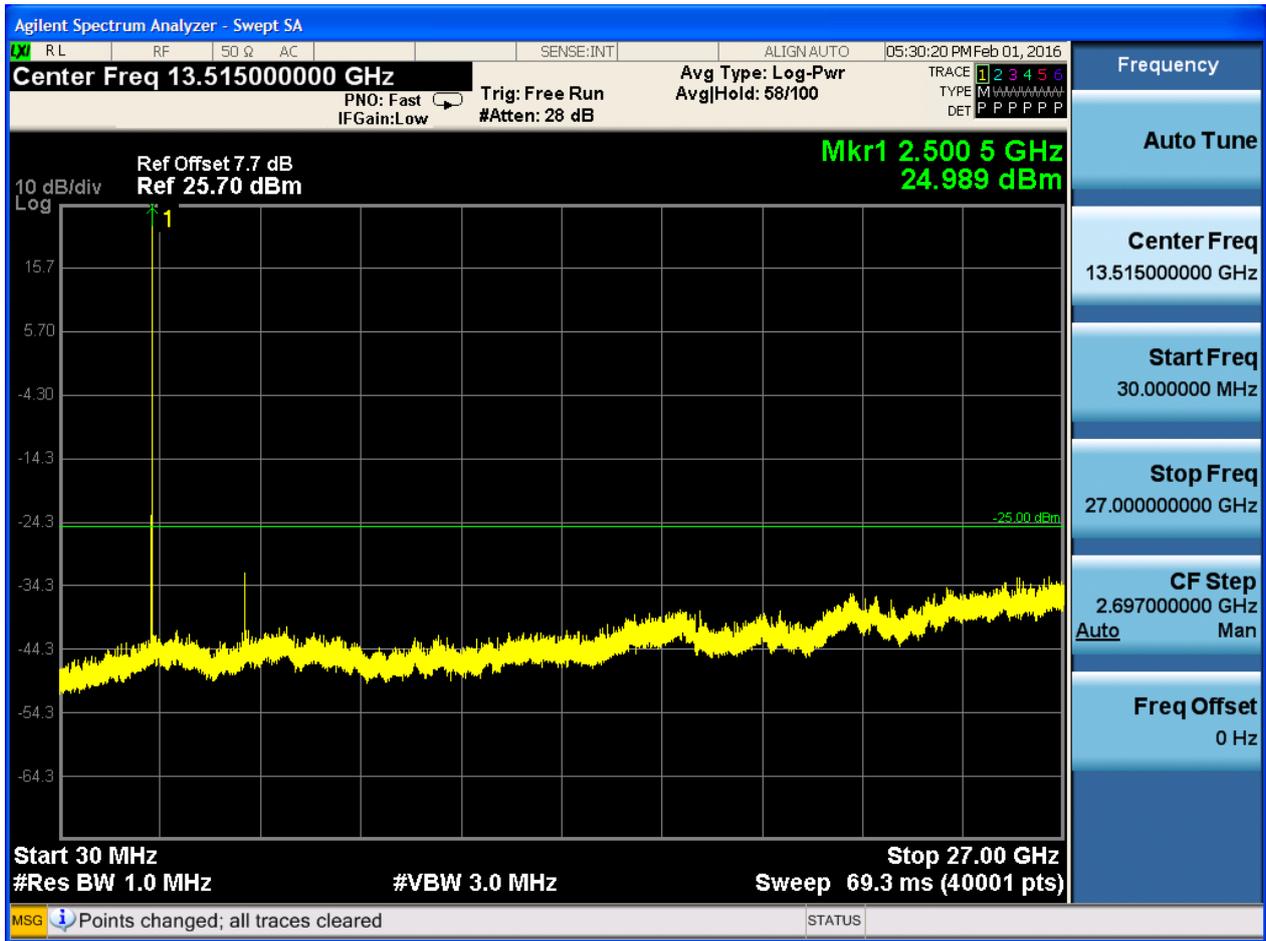








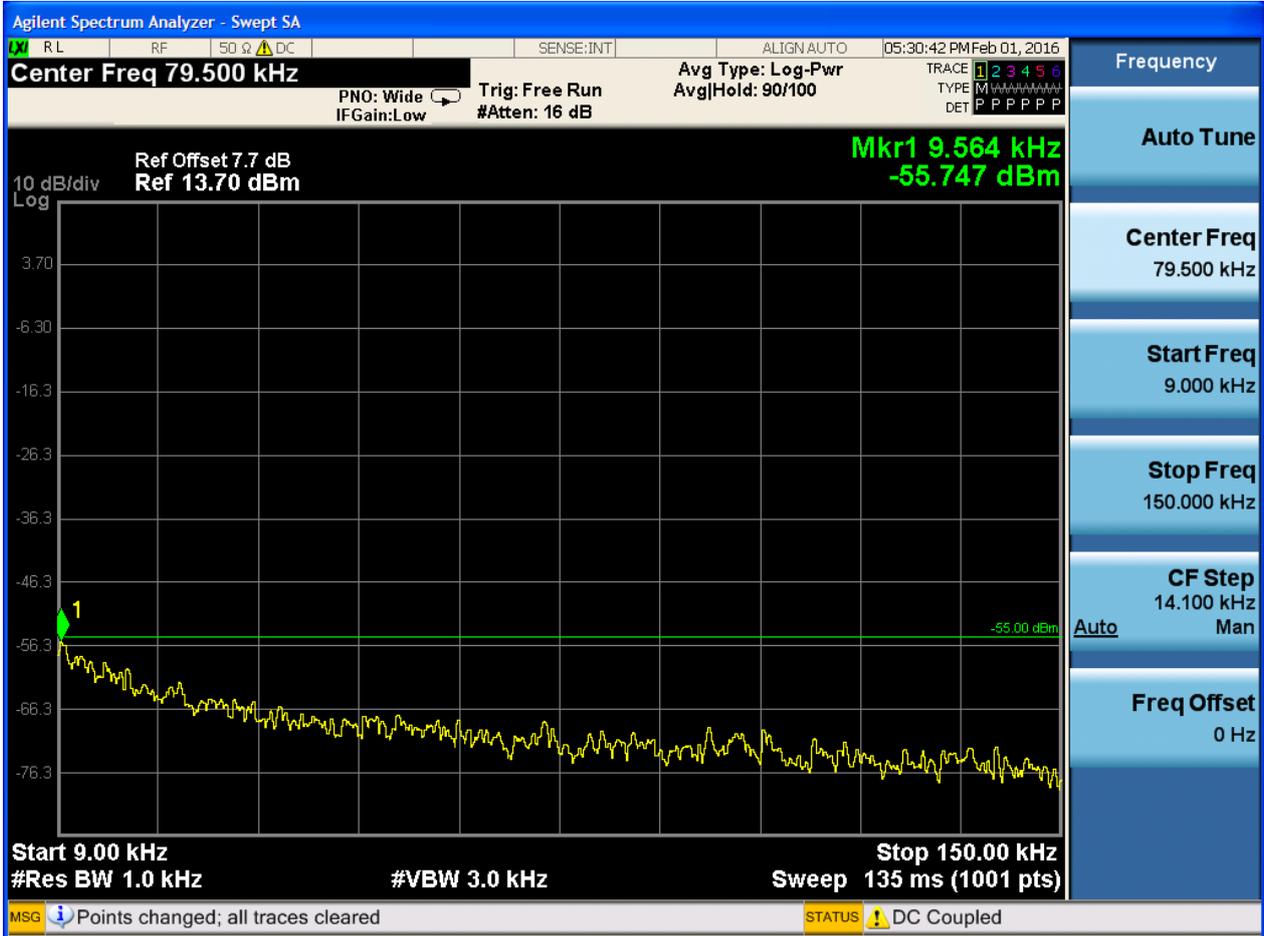


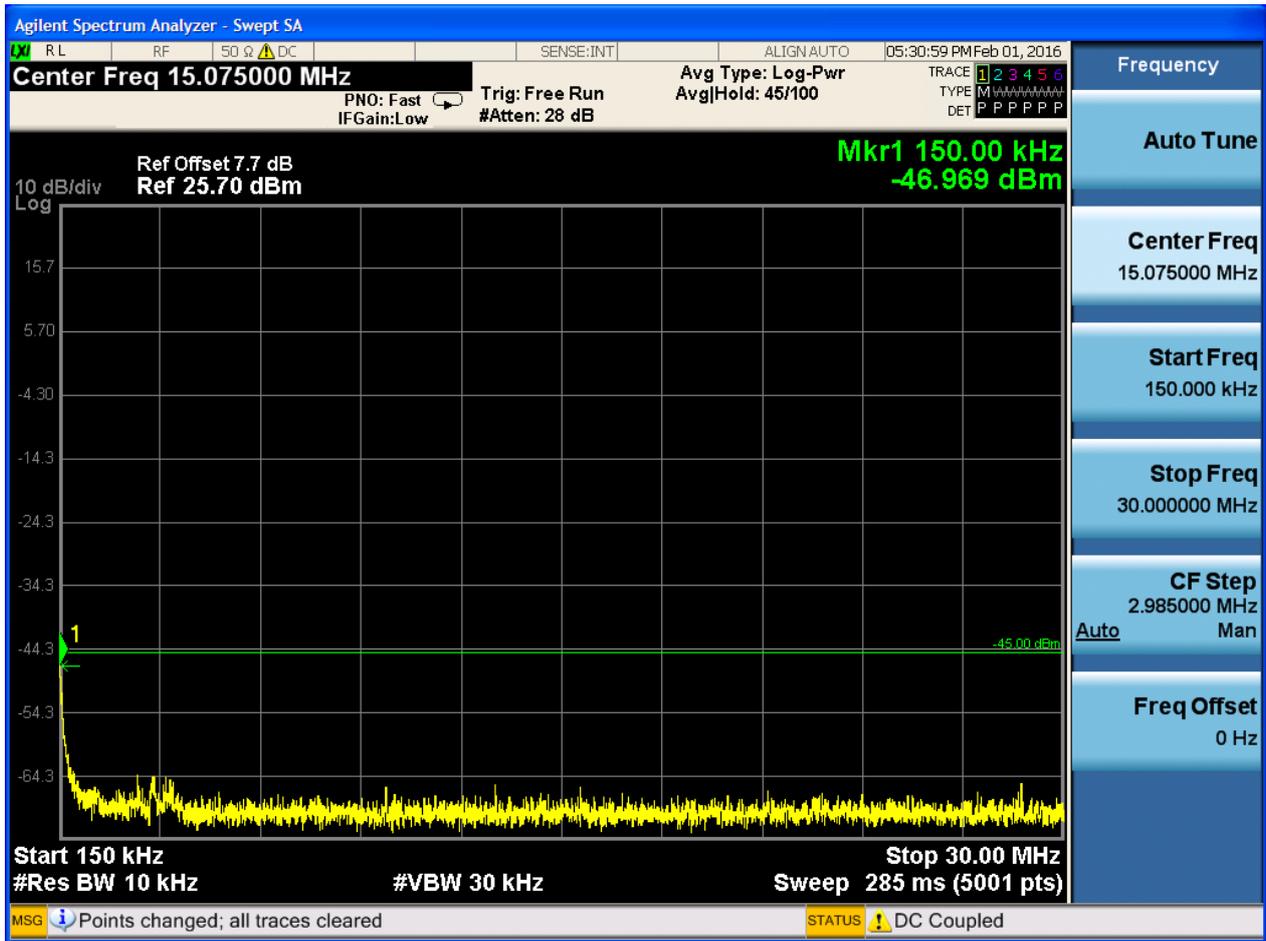


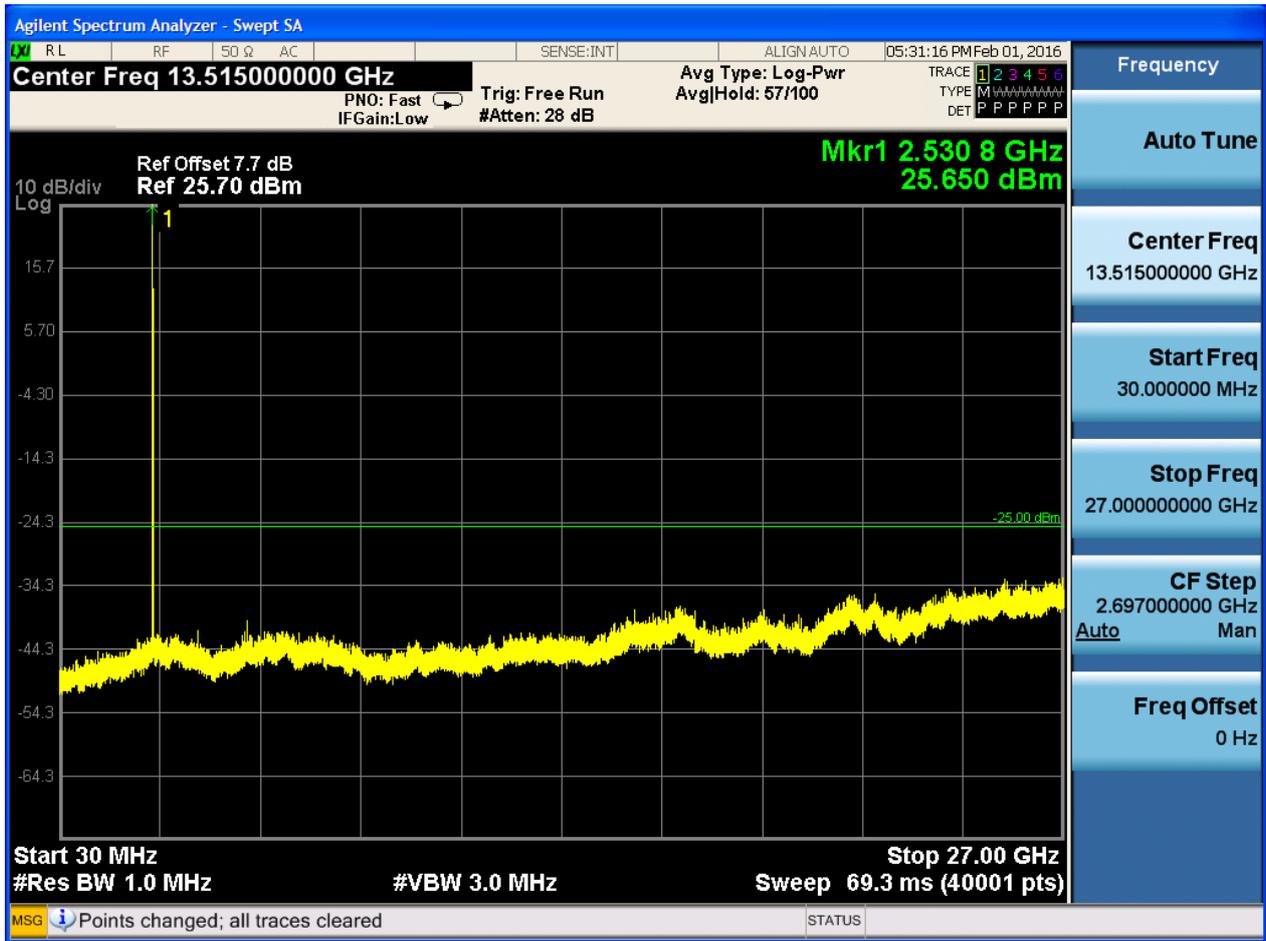


6.1.1.2.2 Test Channel = MCH

6.1.1.2.2.1 Test RB = RB1#0



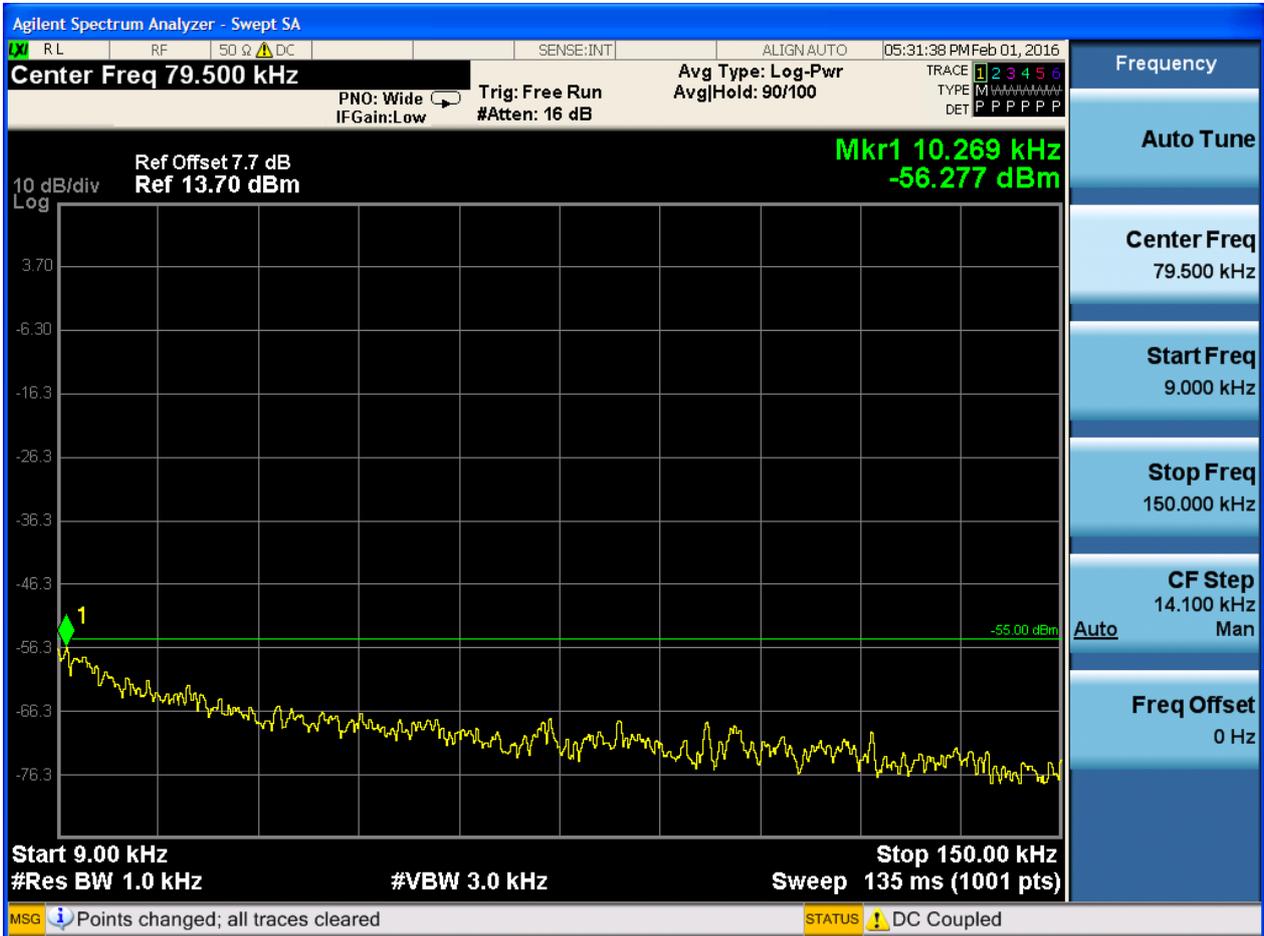




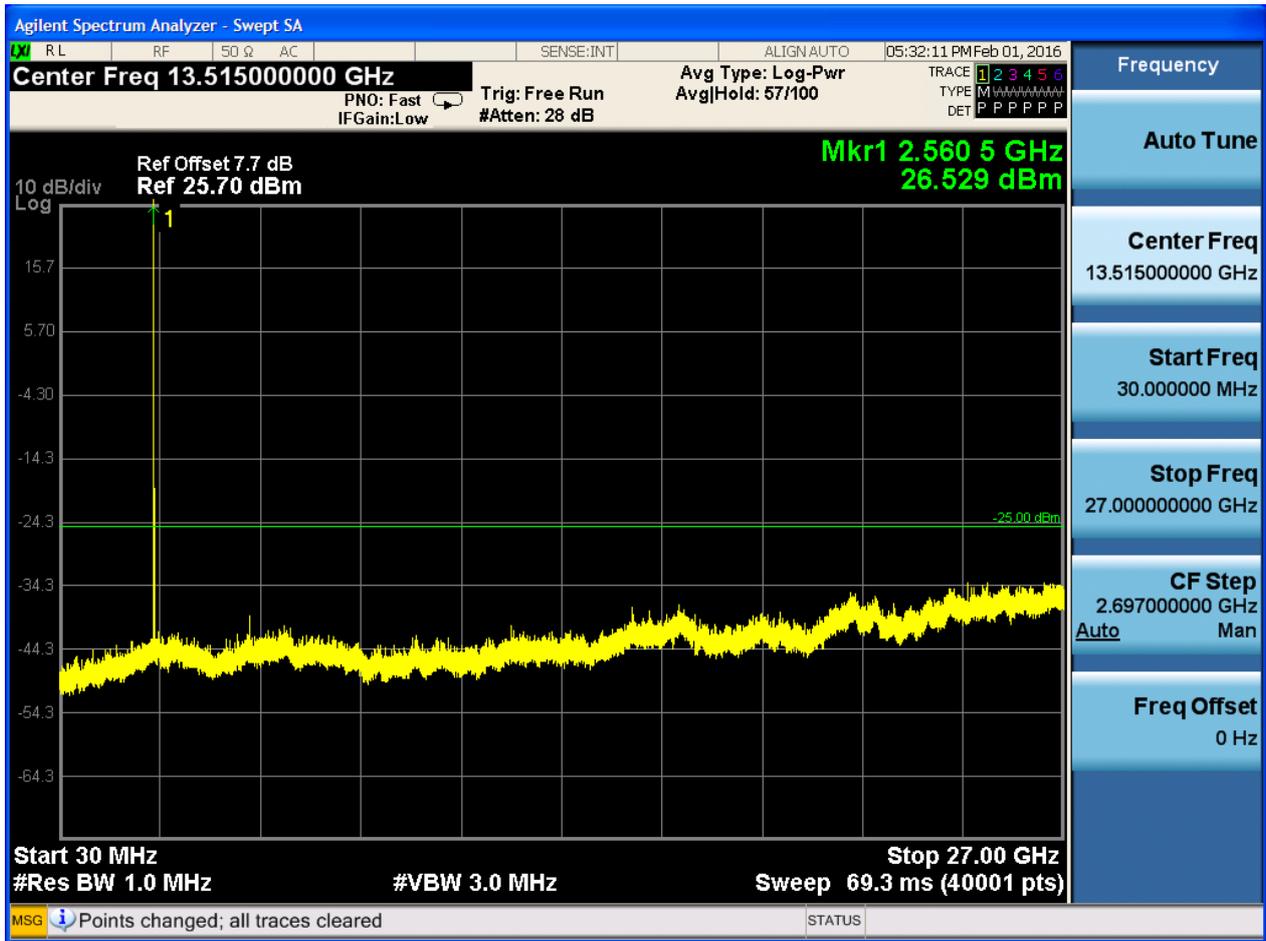


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





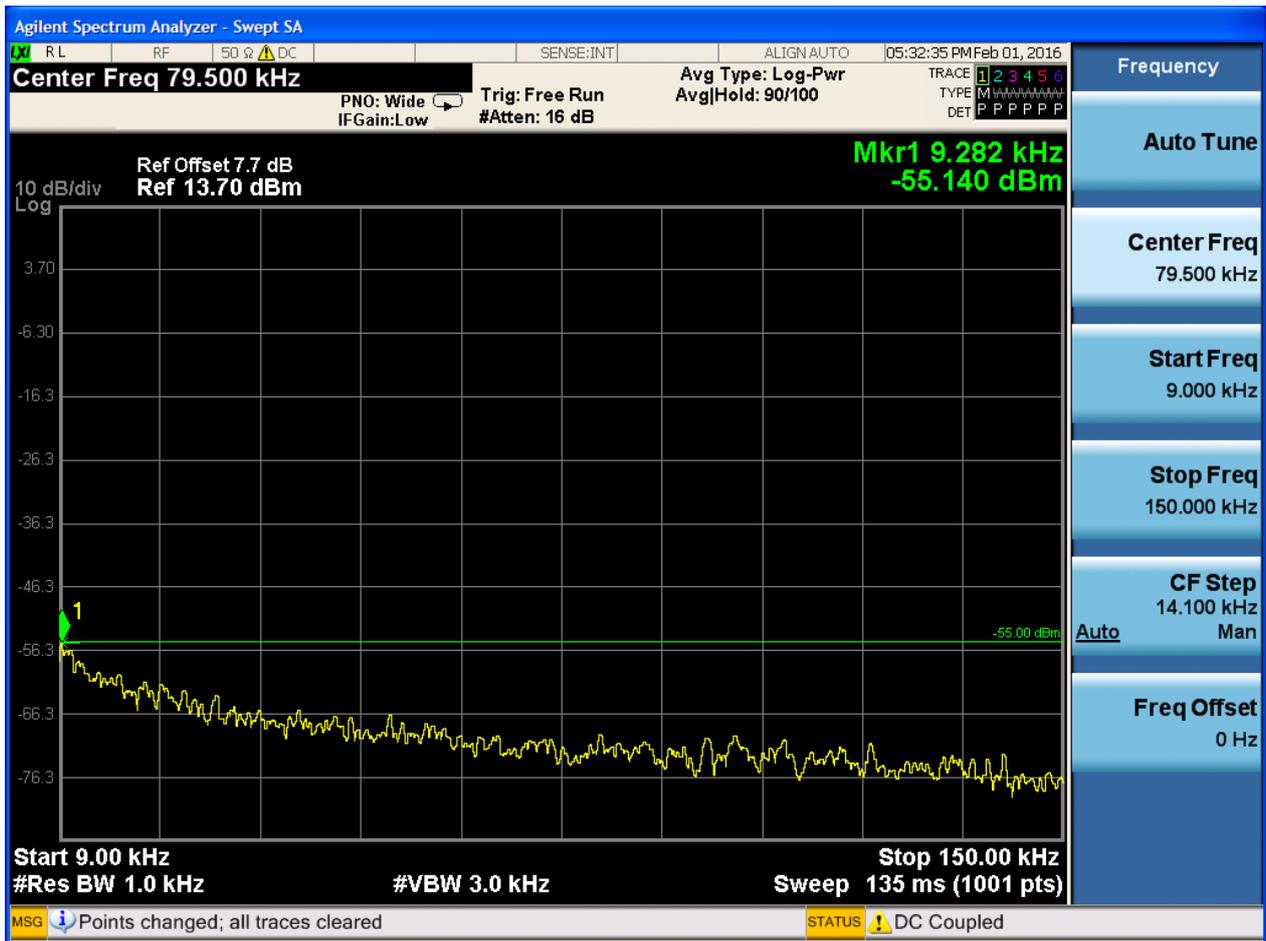




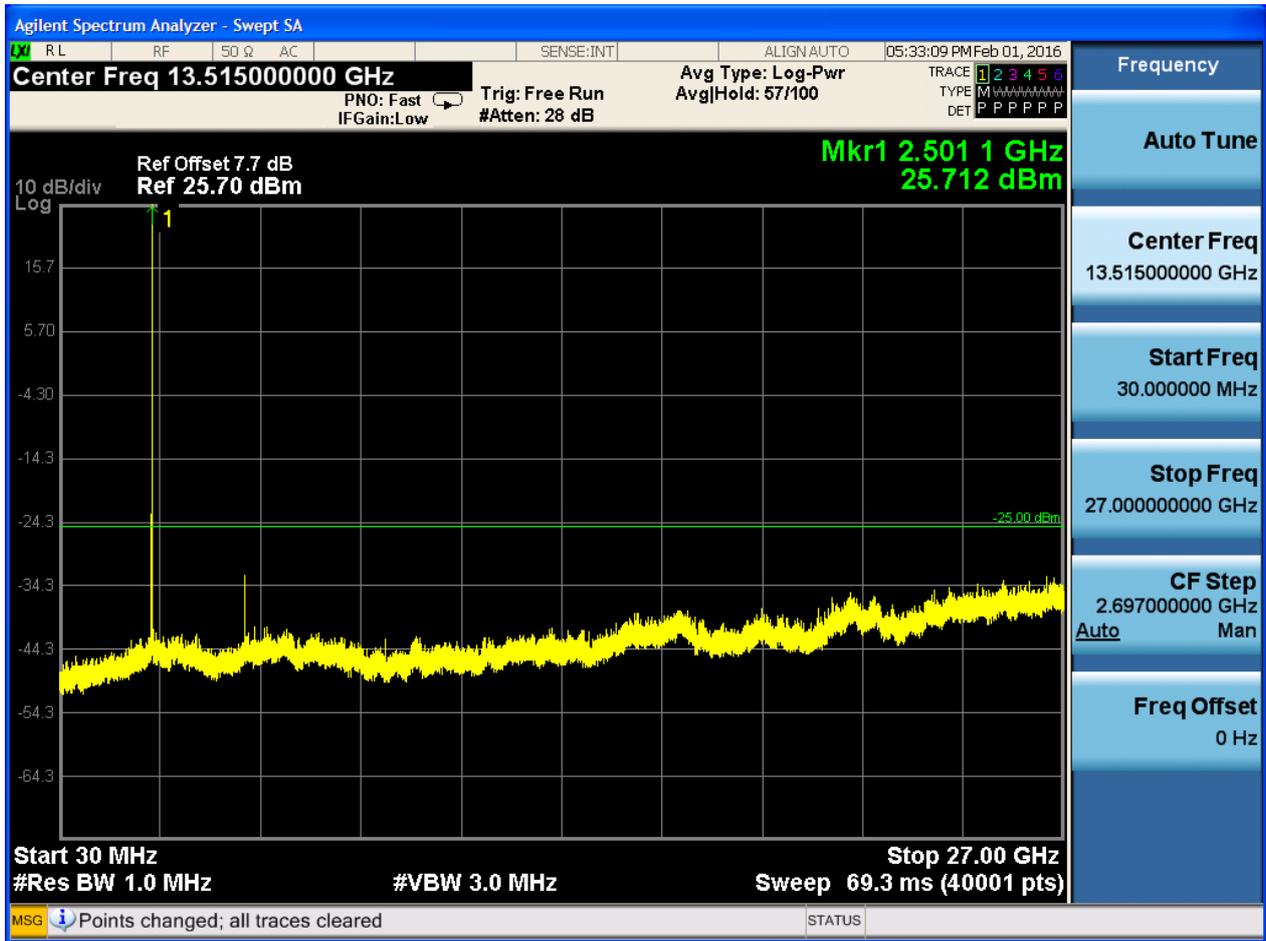
6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



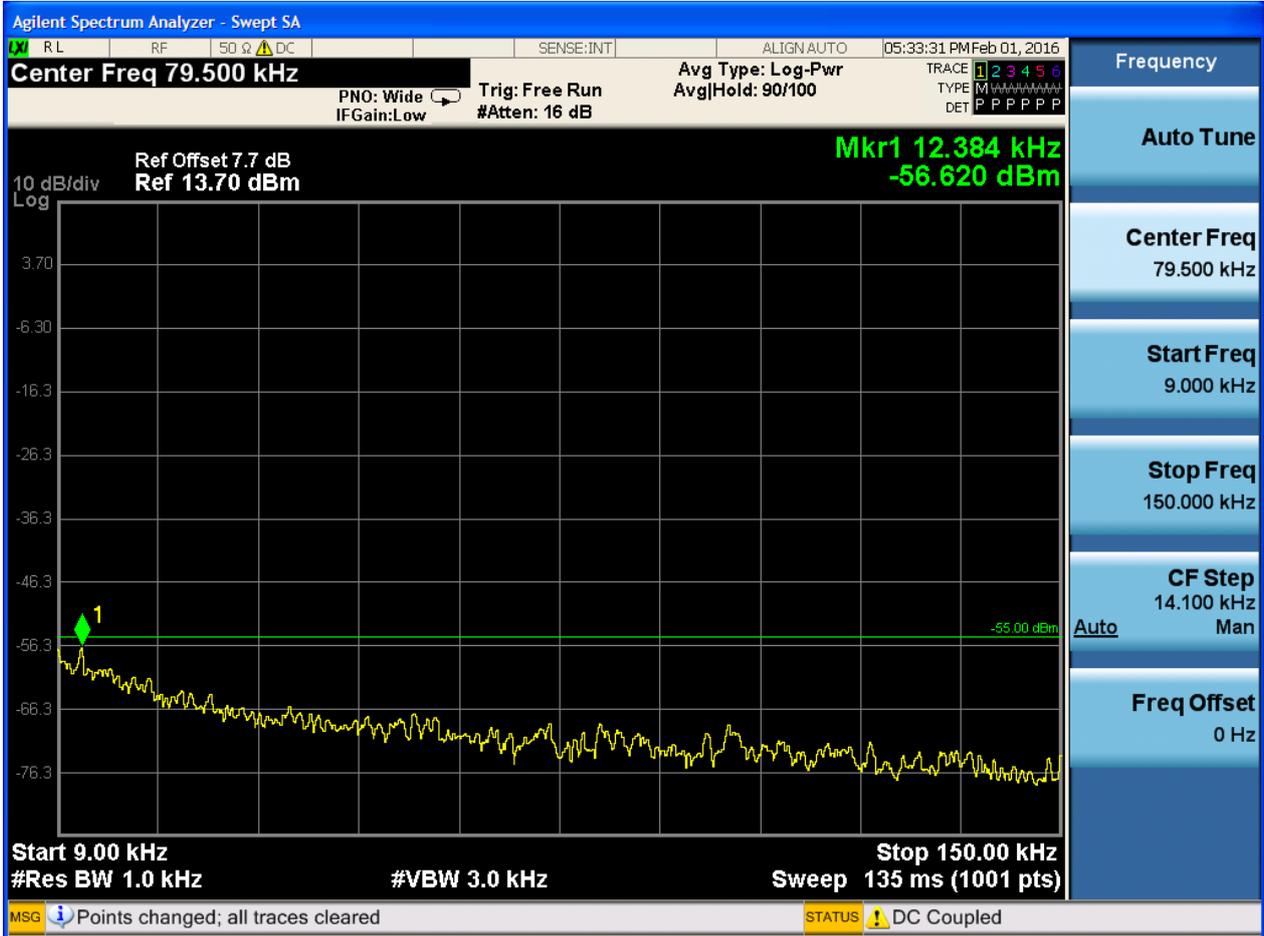




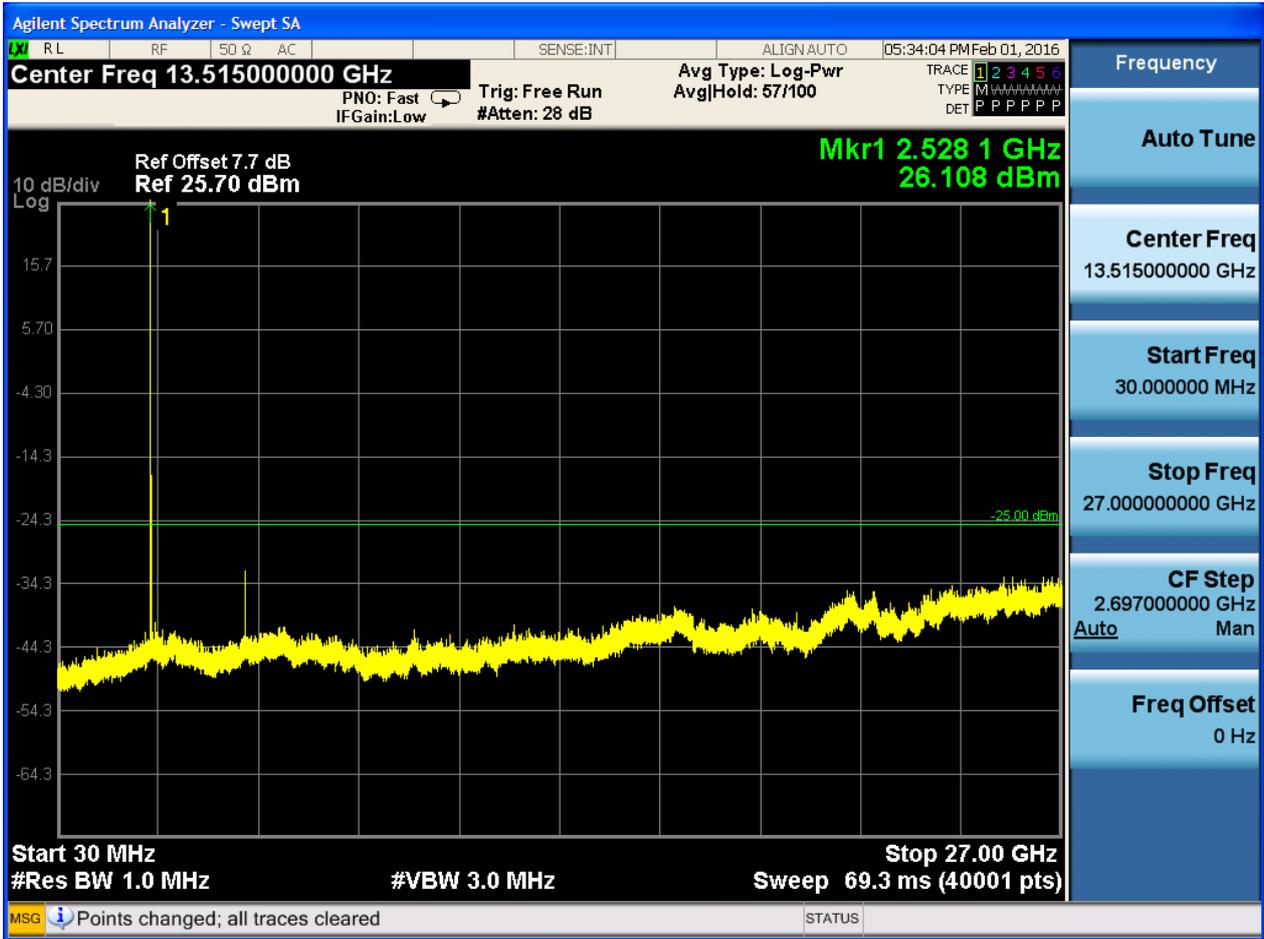


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



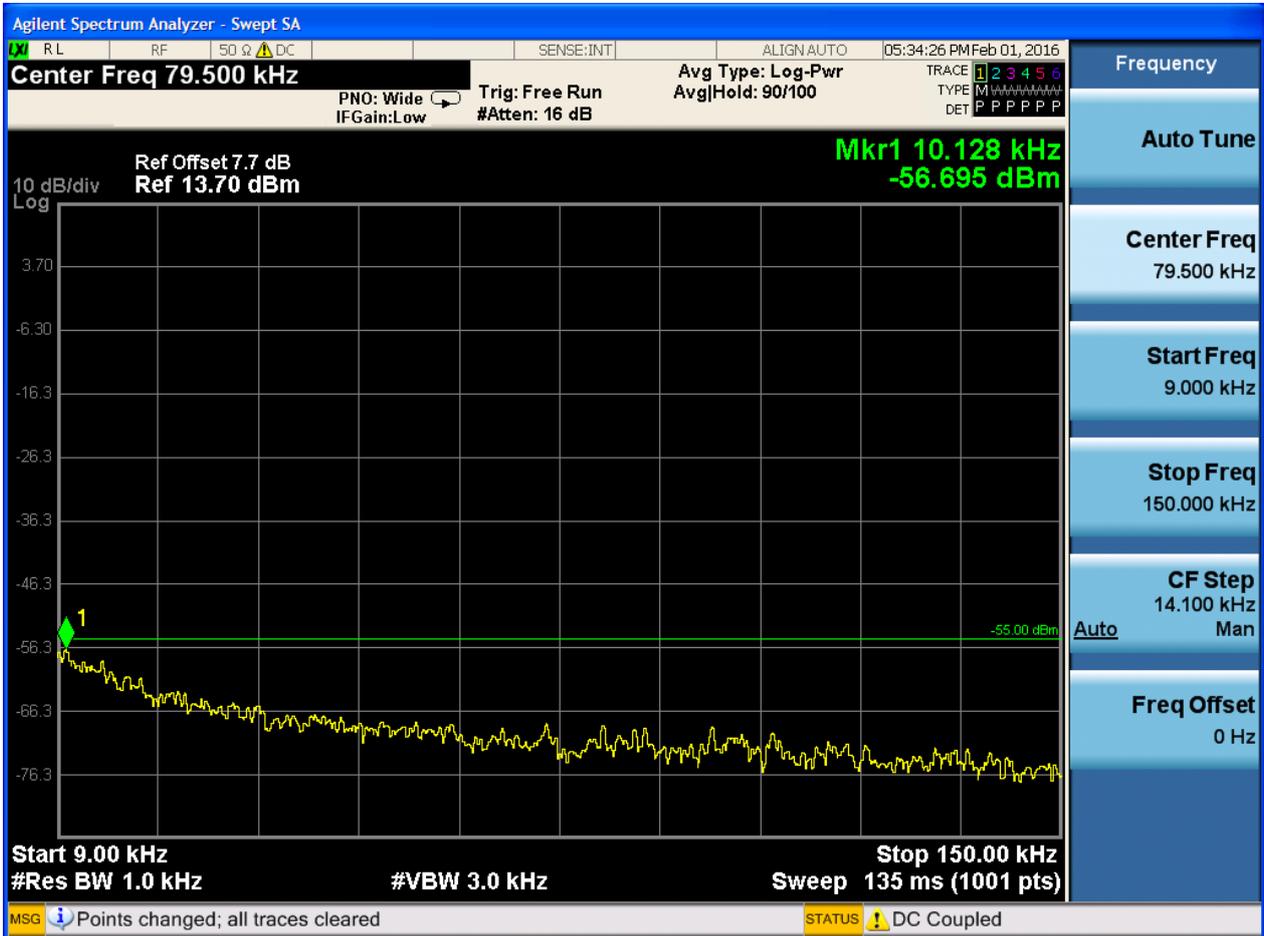


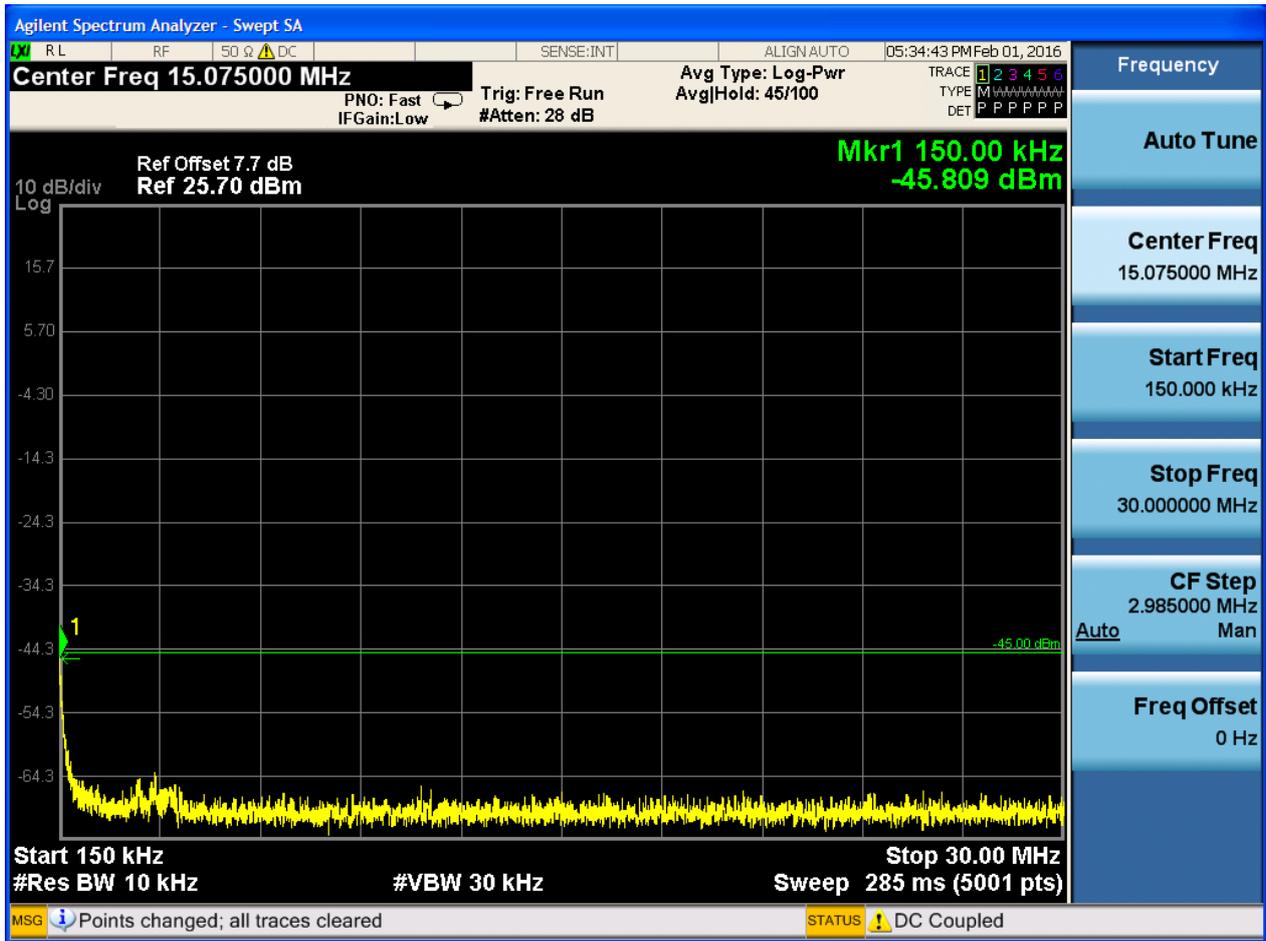


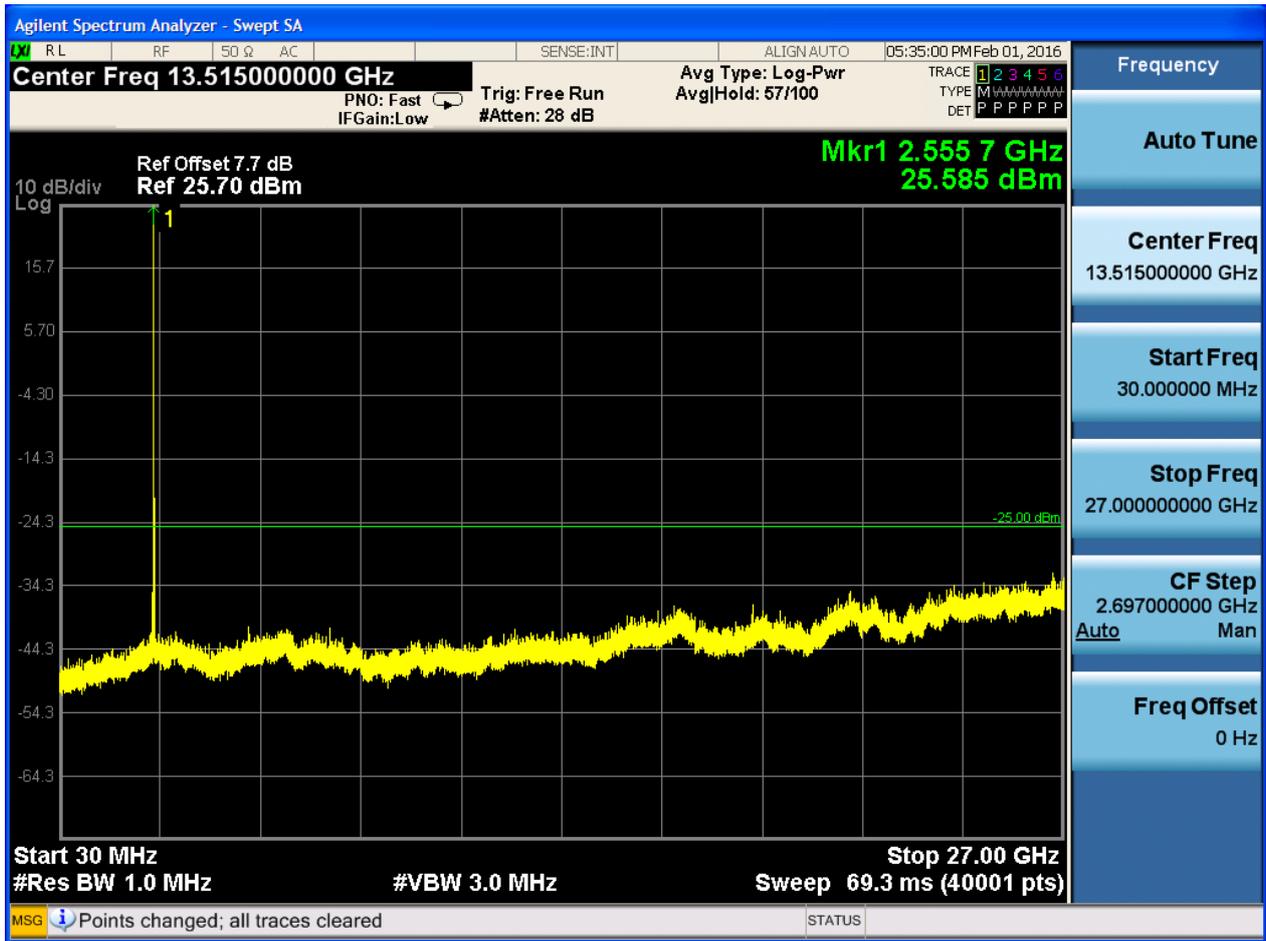


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0







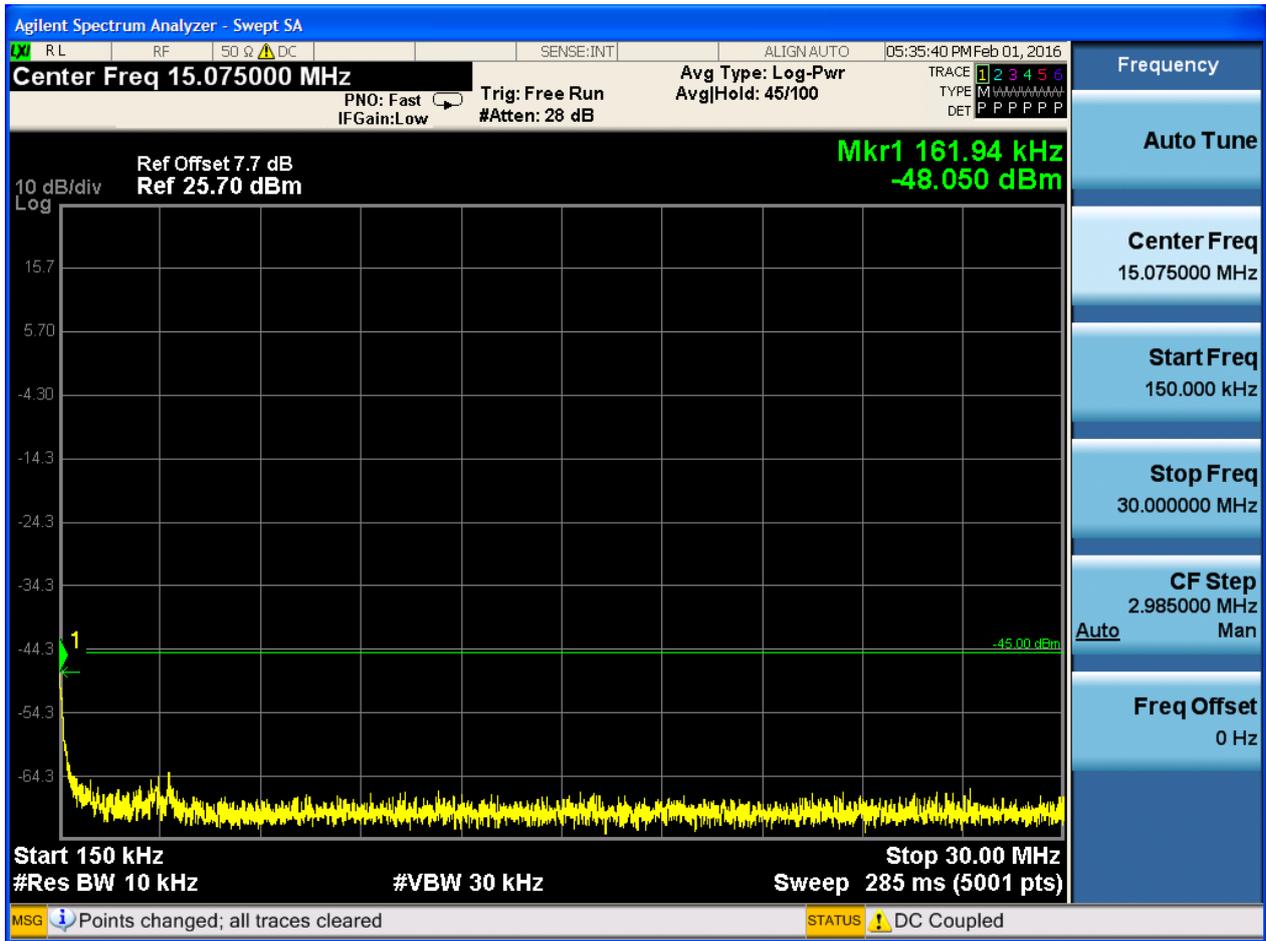


6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0





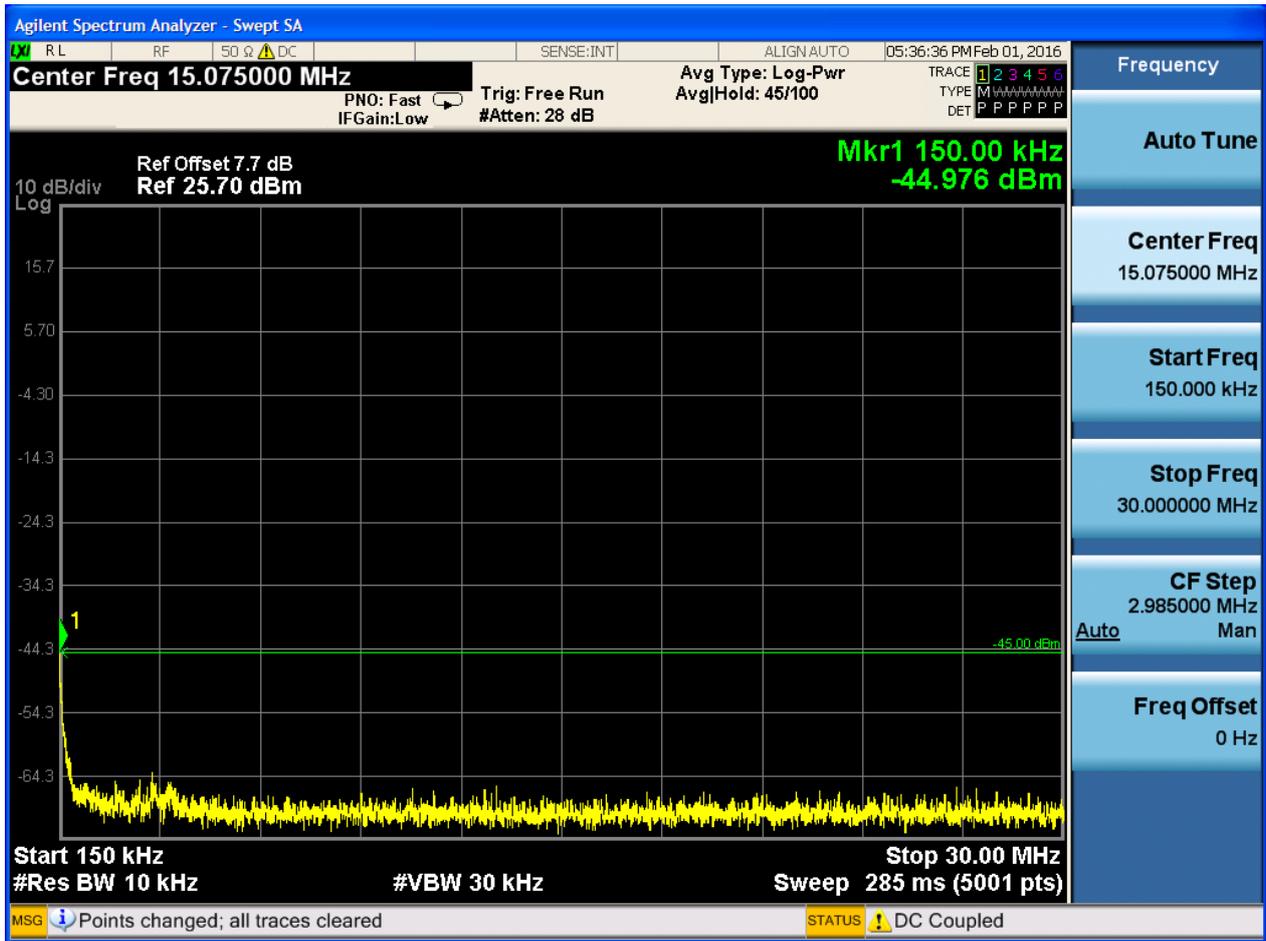


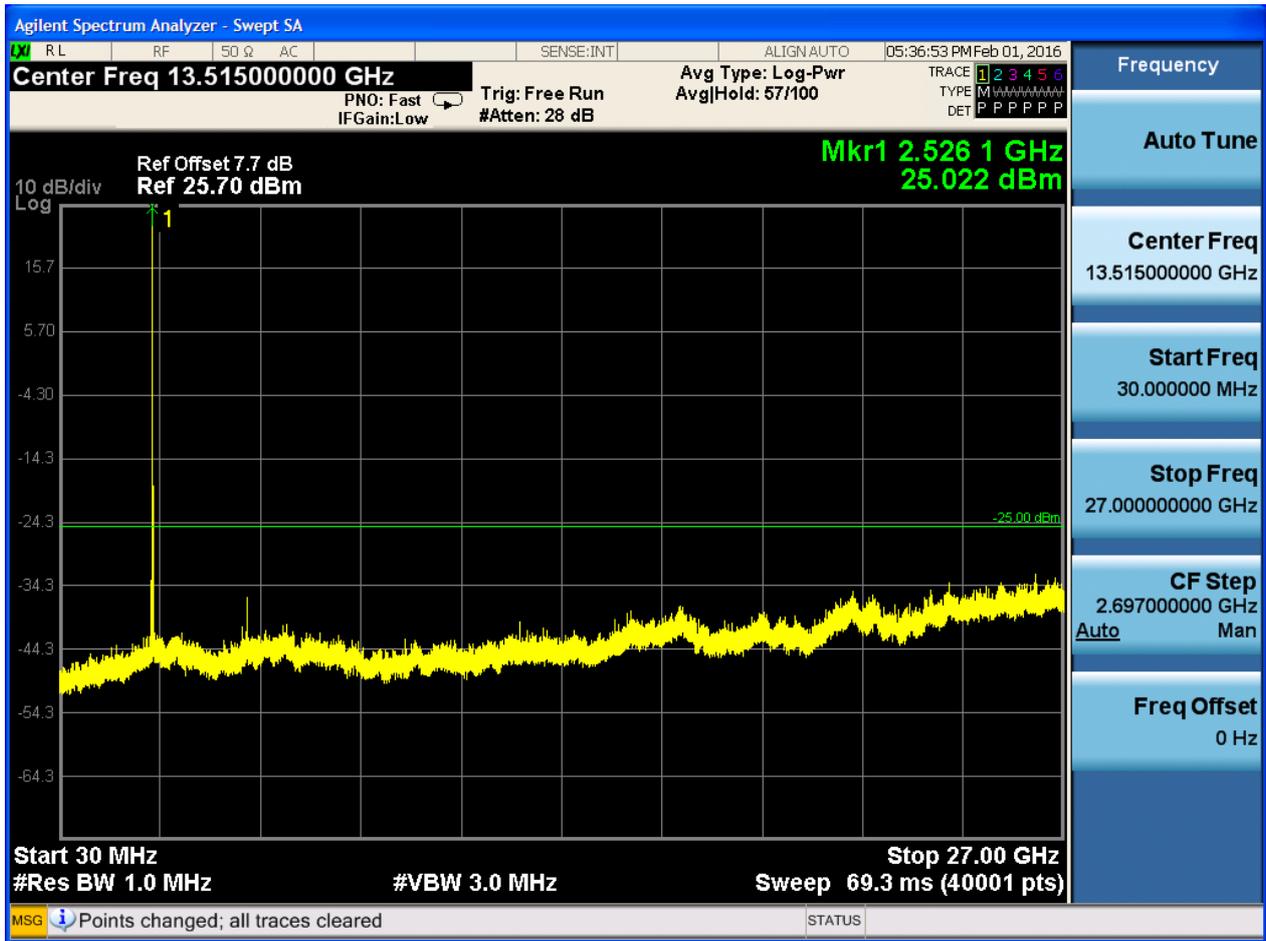


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



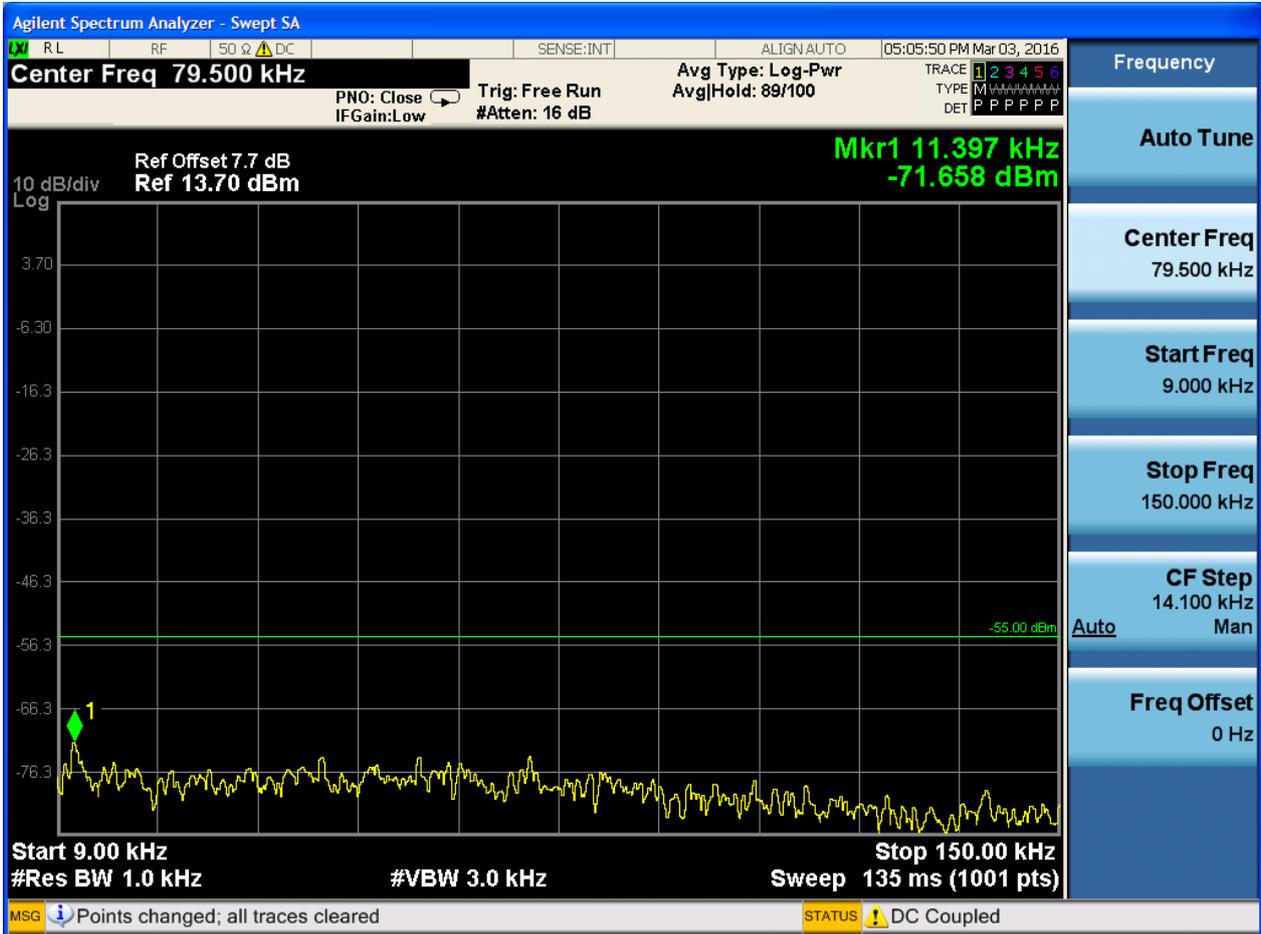


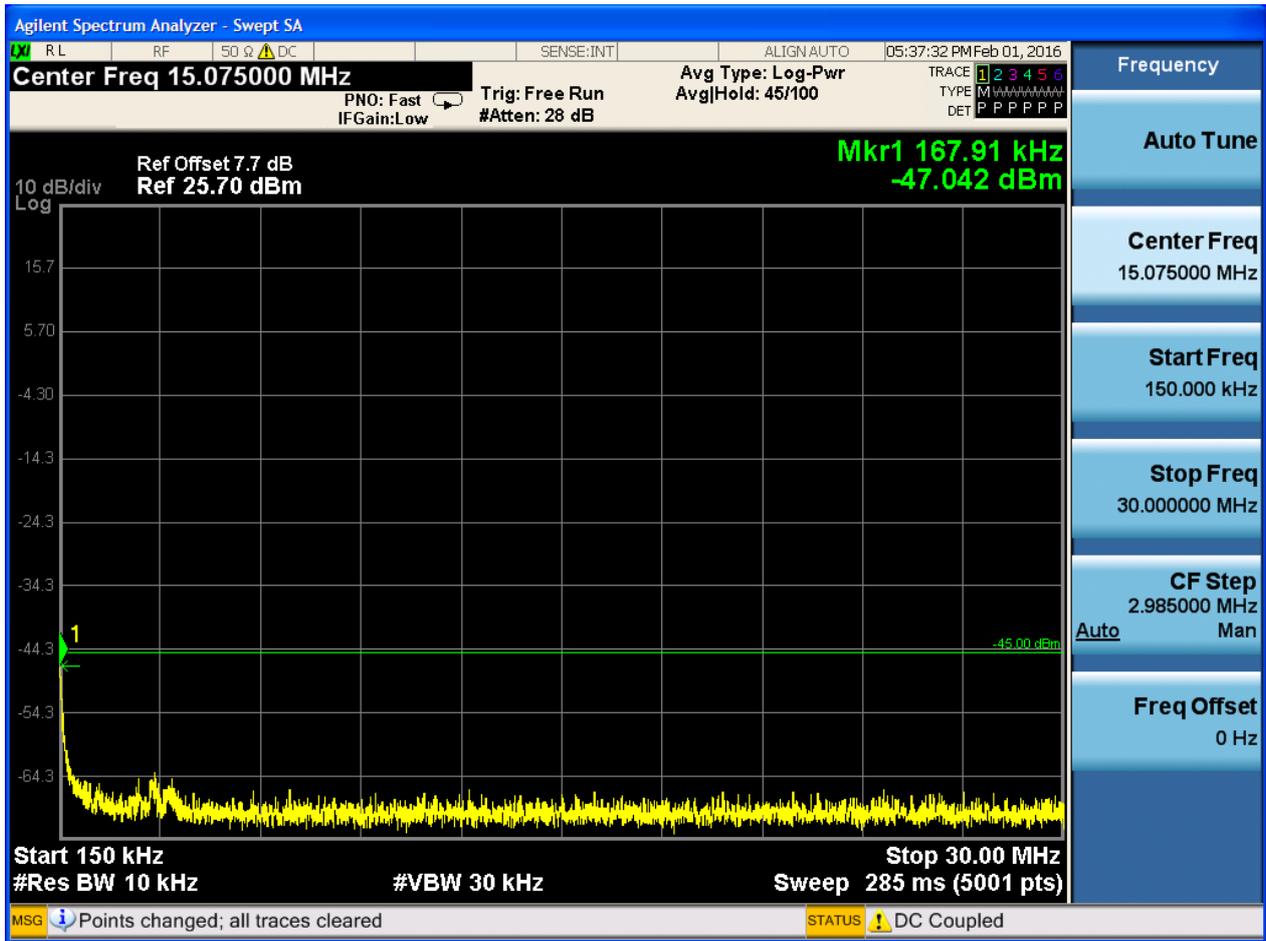


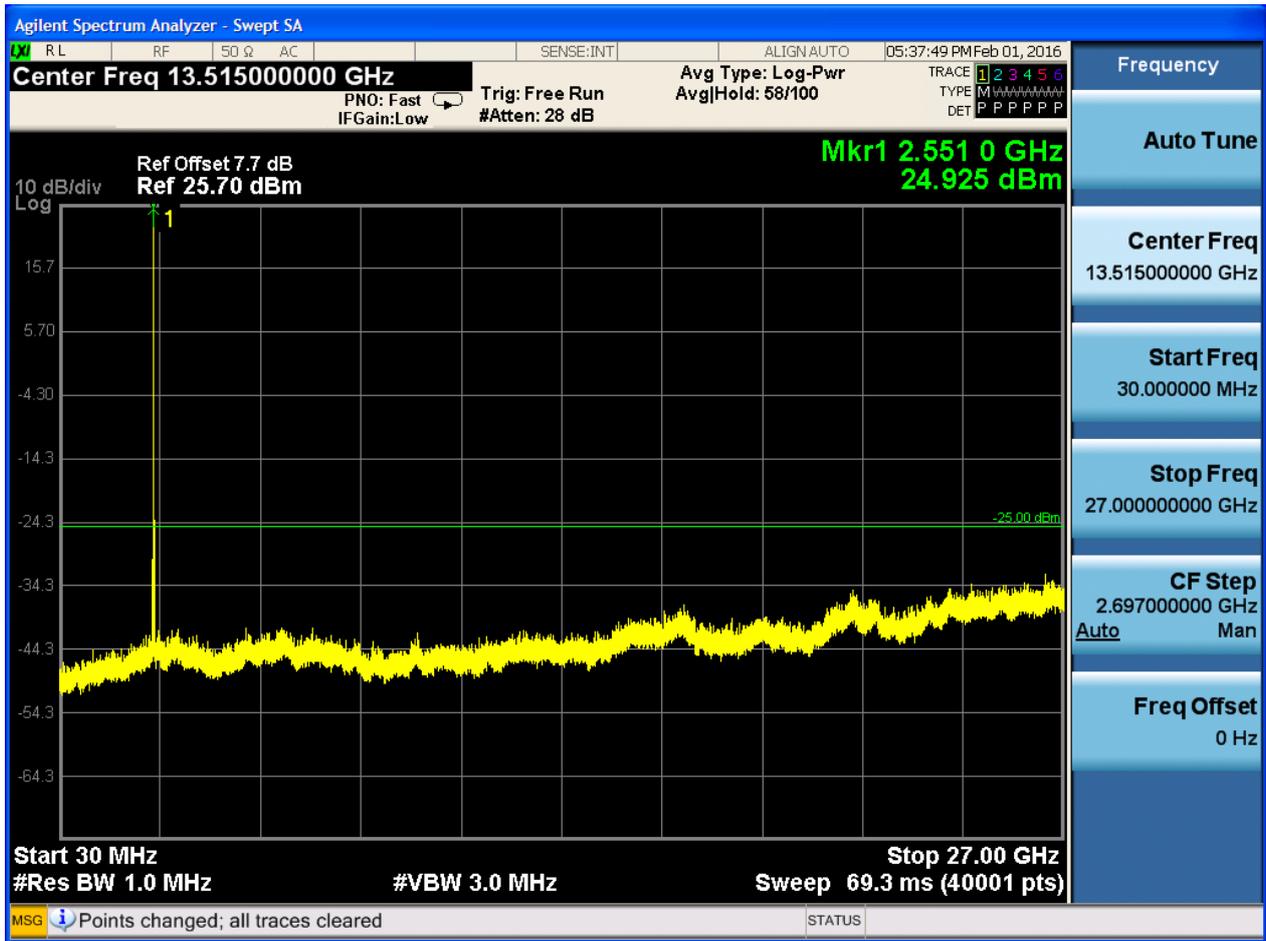


6.1.1.2.4.3 Test Channel = HCH

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

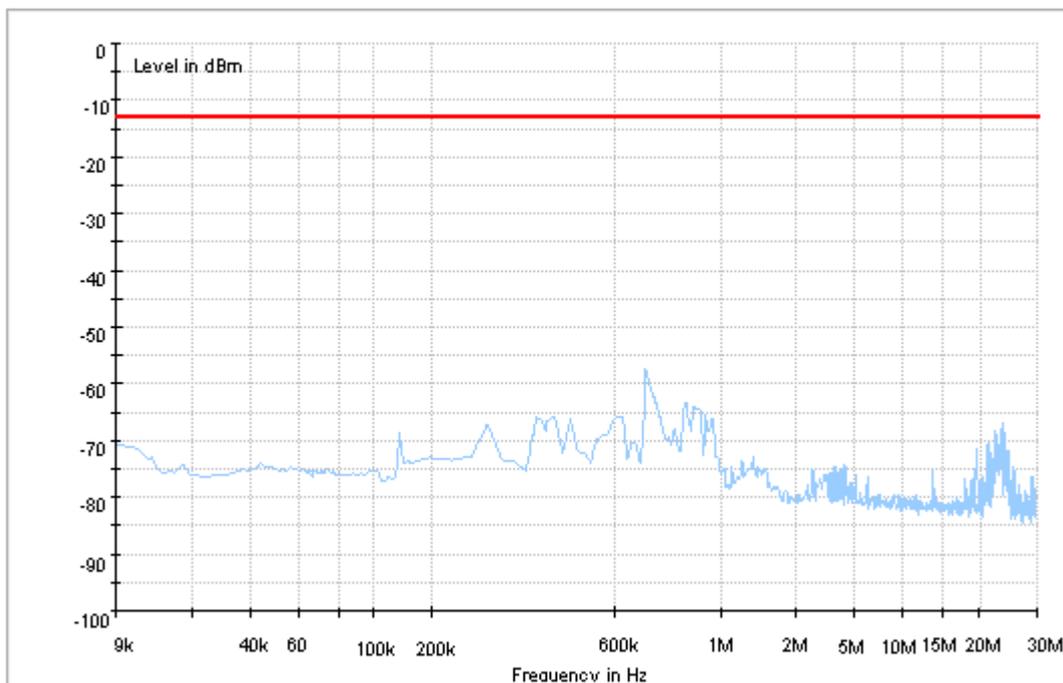
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

### Part I - Test Plots

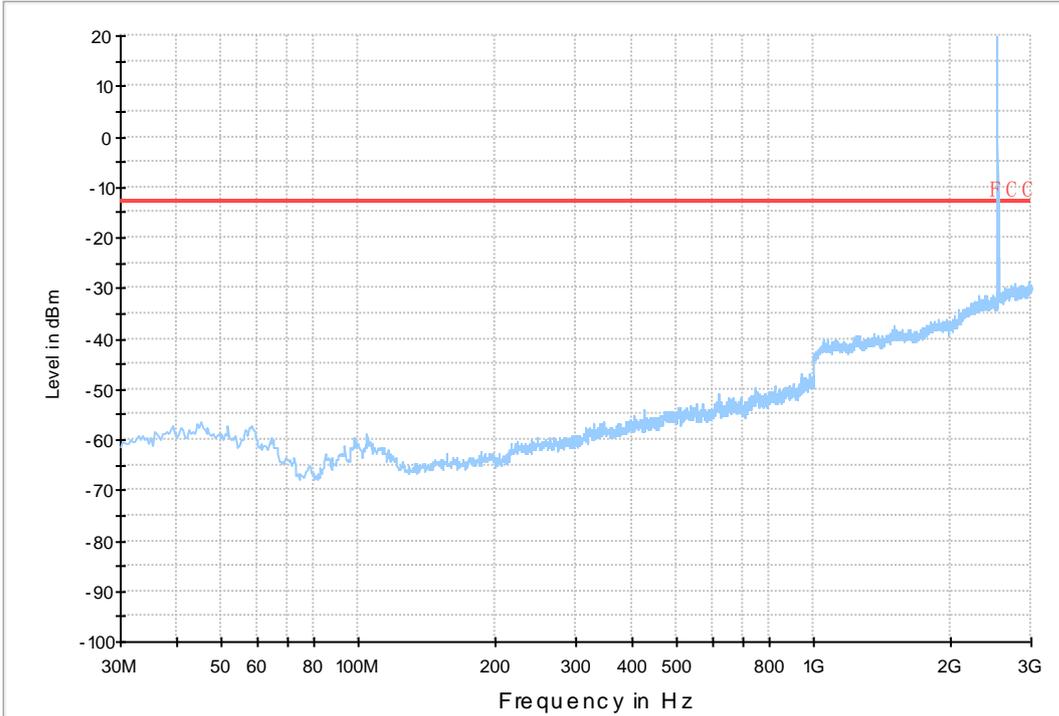
#### 7.1 For LTE

##### 7.1.1 Test Band = BAND7

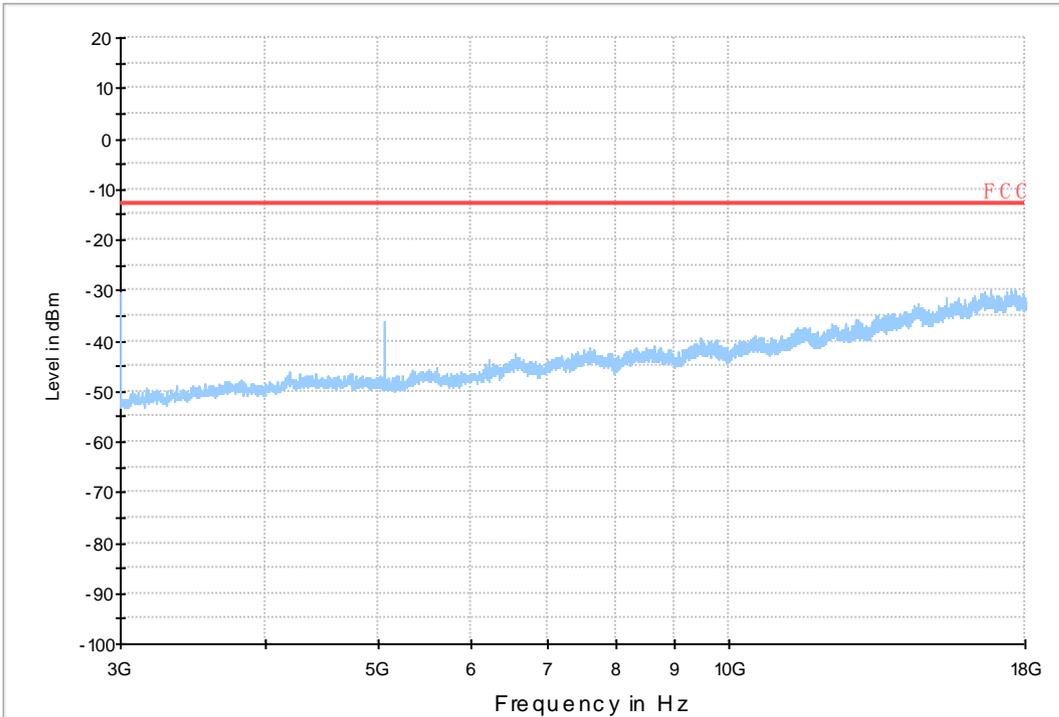
##### 7.1.1.1 Test Bandwidth = 5

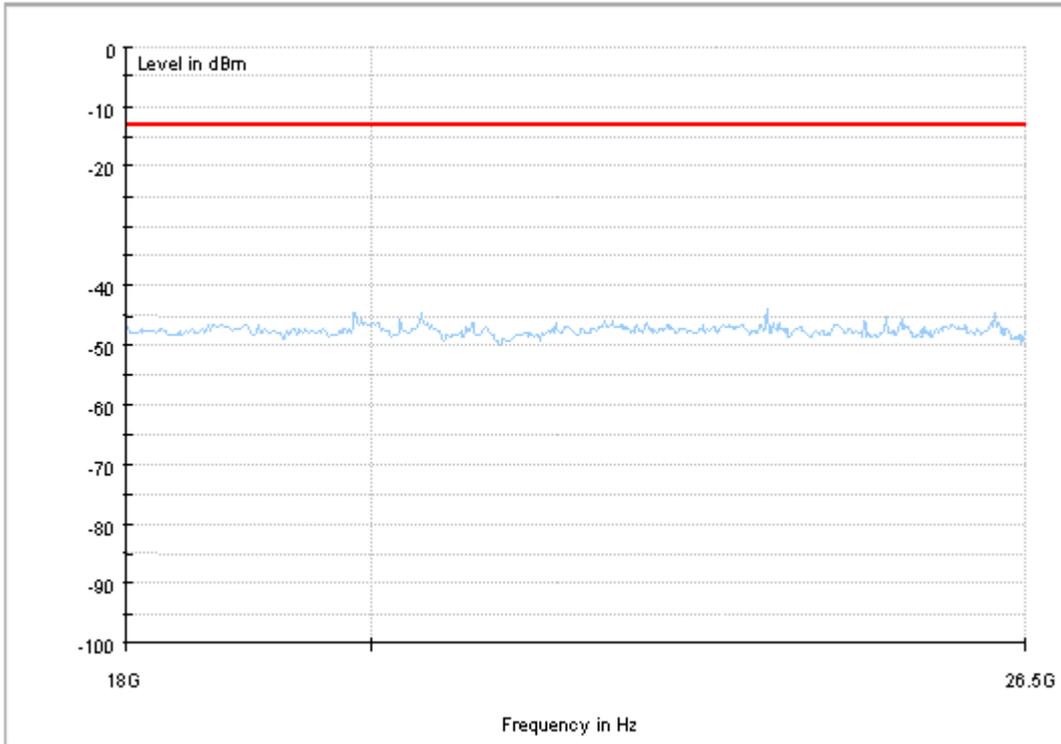


Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_L

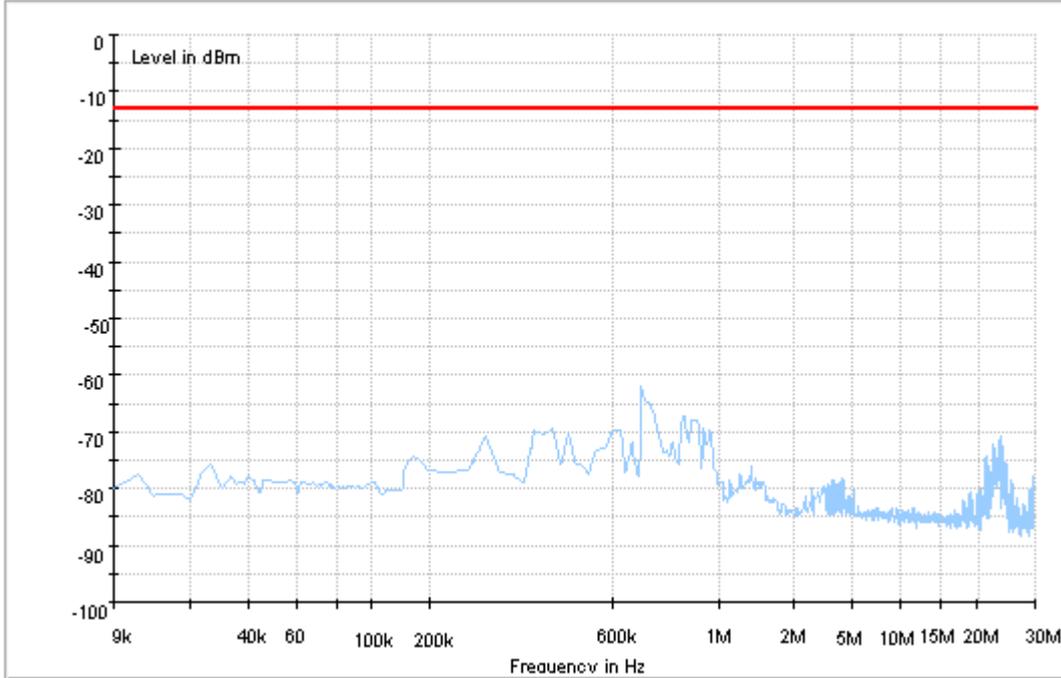


Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_H

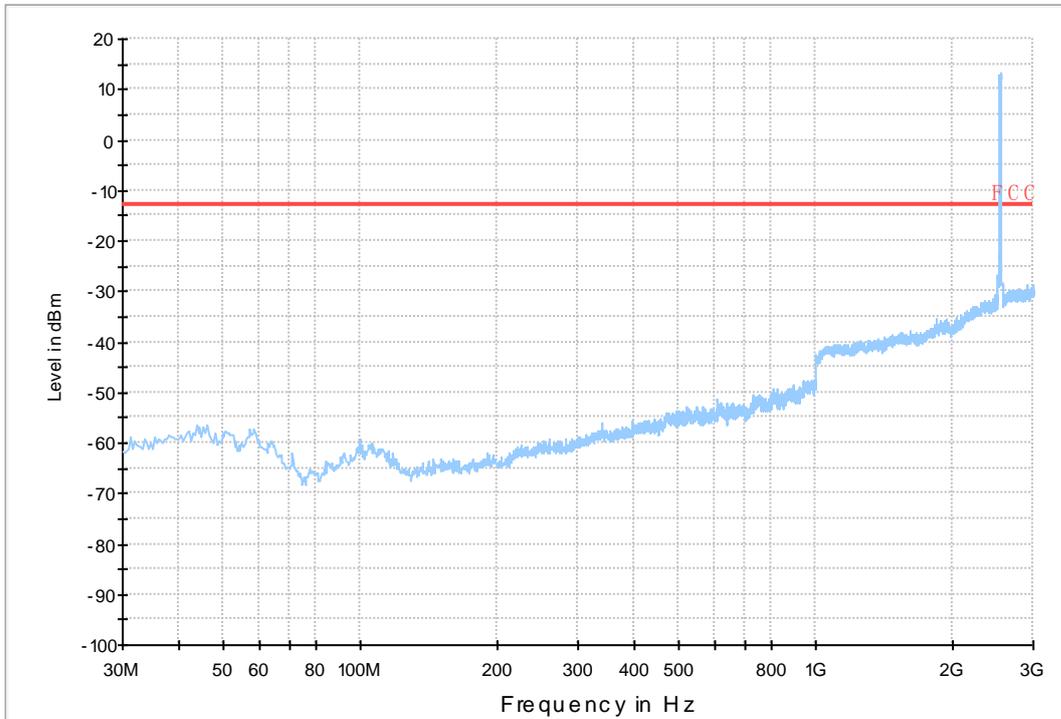




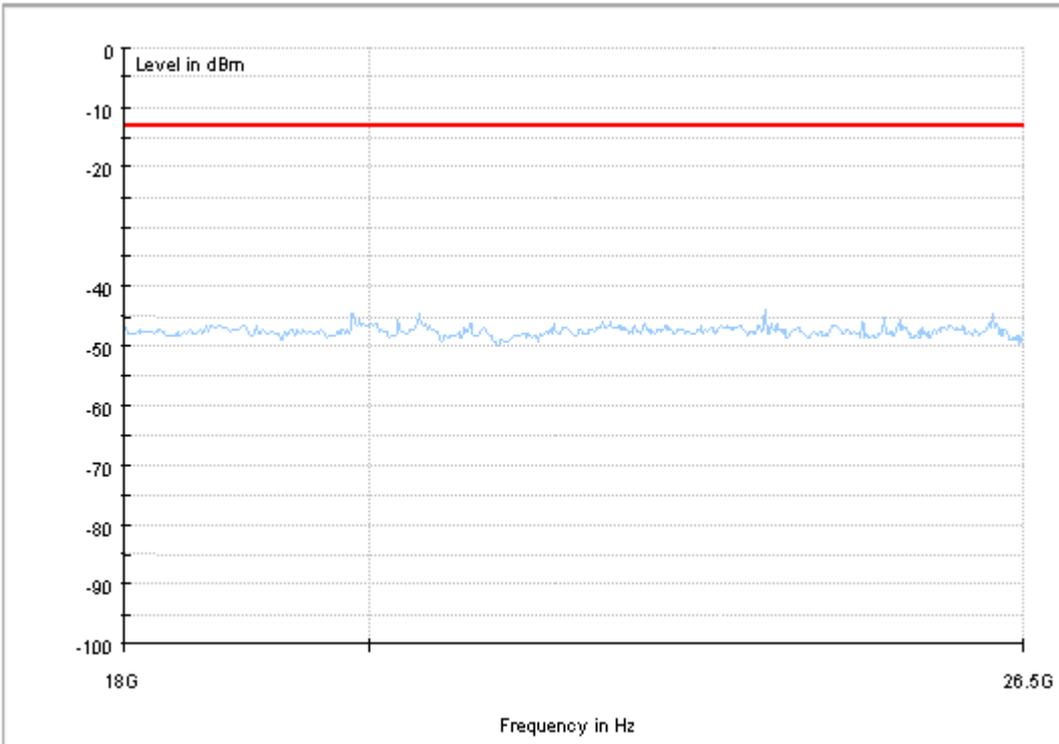
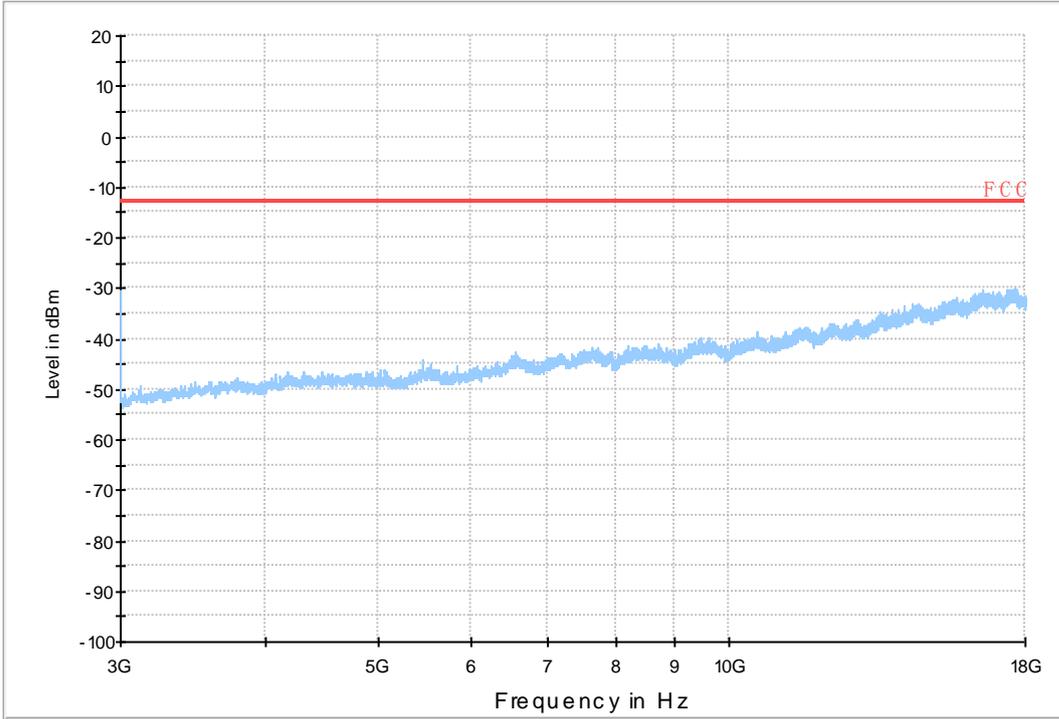
### 7.1.1.2 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_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
BAND7	LTE/TM1	5	LCH	TN	VL	2.00	0.0008	PASS
					VN	4.36	0.00174	PASS
					VH	0.96	0.00038	PASS
			MCH	TN	VL	5.11	0.00202	PASS
					VN	7.87	0.0031	PASS
					VH	7.20	0.00284	PASS
			HCH	TN	VL	4.16	0.00162	PASS
					VN	1.14	0.00044	PASS
					VH	2.60	0.00101	PASS
		10	LCH	TN	VL	3.66	0.00146	PASS
					VN	1.95	0.00078	PASS
					VH	3.52	0.00141	PASS
			MCH	TN	VL	3.38	0.00133	PASS
					VN	3.10	0.00122	PASS
					VH	5.21	0.00206	PASS
			HCH	TN	VL	4.42	0.00172	PASS
					VN	3.55	0.00138	PASS
					VH	2.50	0.00097	PASS
		15	LCH	TN	VL	0.39	0.00016	PASS
					VN	0.84	0.00033	PASS
					VH	2.32	0.00093	PASS
			MCH	TN	VL	1.69	0.00067	PASS
					VN	3.82	0.00151	PASS
					VH	3.85	0.00152	PASS
			HCH	TN	VL	2.98	0.00116	PASS
					VN	2.75	0.00107	PASS
					VH	4.53	0.00177	PASS
		20	LCH	TN	VL	0.01	0	PASS
					VN	1.00	0.0004	PASS
					VH	1.83	0.00073	PASS
			MCH	TN	VL	2.80	0.0011	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					VN	1.19	0.00047	PASS	
					VH	0.54	0.00021	PASS	
			HCH	TN	VL	-1.83	-0.00071	PASS	
					VN	-0.72	-0.00028	PASS	
					VH	0.14	0.00005	PASS	
					VL	0.99	0.0004	PASS	
		5	LCH	TN	VN	1.39	0.00056	PASS	
					VH	1.97	0.00079	PASS	
					VL	7.61	0.003	PASS	
				MCH	TN	VN	4.31	0.0017	PASS
						VH	2.00	0.00079	PASS
						VL	5.39	0.0021	PASS
	HCH		TN	VN	4.03	0.00157	PASS		
				VH	0.77	0.0003	PASS		
				VL	-0.04	-0.00002	PASS		
	10		LCH	TN	VN	2.82	0.00113	PASS	
					VH	-2.20	-0.00088	PASS	
					VL	2.17	0.00086	PASS	
			MCH	TN	VN	3.60	0.00142	PASS	
					VH	1.69	0.00067	PASS	
					VL	3.76	0.00147	PASS	
			HCH	TN	VN	5.89	0.0023	PASS	
					VH	2.12	0.00083	PASS	
					VL	2.55	0.00102	PASS	
		15	LCH	TN	VN	4.58	0.00183	PASS	
					VH	3.03	0.00121	PASS	
					VL	2.86	0.00113	PASS	
	MCH		TN	VN	0.93	0.00037	PASS		
				VH	0.70	0.00028	PASS		
				VL	3.65	0.00142	PASS		
	HCH		TN	VN	4.35	0.0017	PASS		
				VH	4.61	0.0018	PASS		
				VL	1.86	0.00074	PASS		
	20	LCH	TN	VN	-0.50	-0.0002	PASS		
				VH	1.52	0.00061	PASS		
				VL	4.86	0.00192	PASS		
		MCH	TN	VN	2.73	0.00108	PASS		
				VH	5.35	0.00211	PASS		
				VL	-0.13	-0.00005	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	0.41	0.00016	PASS
					VH	-0.04	-0.00002	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
BAND7	LTE/TM1	5	LCH	VN	-30	-0.89	-0.00036	PASS
					-20	3.43	0.00137	PASS
					-10	2.00	0.0008	PASS
					0	3.82	0.00153	PASS
					10	1.65	0.00066	PASS
					20	2.70	0.00108	PASS
					30	1.79	0.00072	PASS
			40	2.30	0.00092	PASS		
			50	0.49	0.0002	PASS		
			MCH	VN	-30	3.06	0.00121	PASS
					-20	3.15	0.00124	PASS
					-10	4.02	0.00159	PASS
					0	1.62	0.00064	PASS
					10	4.08	0.00161	PASS
		20			3.76	0.00148	PASS	
		30			3.13	0.00123	PASS	
		40	0.83	0.00033	PASS			
		50	1.47	0.00058	PASS			
		HCH	VN	-30	8.01	0.00312	PASS	
				-20	6.54	0.00255	PASS	
				-10	3.98	0.00155	PASS	
				0	3.10	0.00121	PASS	
				10	3.95	0.00154	PASS	
				20	3.82	0.00149	PASS	
				30	5.44	0.00212	PASS	
		40	4.06	0.00158	PASS			
		50	3.59	0.0014	PASS			
		10	LCH	VN	-30	2.17	0.00087	PASS
-20	2.75				0.0011	PASS		
-10	3.25				0.0013	PASS		
0	2.47				0.00099	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	0.70	0.00028	PASS
					20	2.78	0.00111	PASS
					30	2.65	0.00106	PASS
					40	3.59	0.00143	PASS
					50	5.97	0.00238	PASS
			MCH	VN	-30	6.91	0.00273	PASS
					-20	4.81	0.0019	PASS
					-10	3.62	0.00143	PASS
					0	3.46	0.00136	PASS
					10	7.45	0.00294	PASS
					20	2.76	0.00109	PASS
					30	2.83	0.00112	PASS
					40	3.59	0.00142	PASS
					50	3.88	0.00153	PASS
					HCH	VN	-30	1.34
			-20	0.97			0.00038	PASS
			-10	2.68			0.00104	PASS
			0	-0.64			-0.00025	PASS
			10	1.00			0.00039	PASS
			20	2.56			0.001	PASS
		30	4.68	0.00182			PASS	
		40	2.19	0.00085			PASS	
		15	LCH	VN	-30	5.99	0.00239	PASS
					-20	5.65	0.00225	PASS
					-10	4.31	0.00172	PASS
					0	5.15	0.00205	PASS
					10	5.69	0.00227	PASS
					20	3.52	0.0014	PASS
					30	5.39	0.00215	PASS
					40	5.29	0.00211	PASS
					50	5.08	0.00203	PASS
					MCH	VN	-30	4.42
		-20	4.63	0.00183			PASS	
		-10	3.45	0.00136			PASS	
		0	3.19	0.00126			PASS	
		10	2.78	0.0011			PASS	
		20	3.06	0.00121			PASS	
		30	4.73	0.00187			PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
			HCH	VN	40	4.11	0.00162	PASS		
					50	3.88	0.00153	PASS		
					-30	1.49	0.00058	PASS		
					-20	3.40	0.00133	PASS		
					-10	1.75	0.00068	PASS		
					0	2.75	0.00107	PASS		
					10	4.22	0.00165	PASS		
					20	3.06	0.00119	PASS		
					30	3.86	0.00151	PASS		
					40	1.14	0.00044	PASS		
		50	3.79	0.00148	PASS					
				20	LCH	VN	-30	-7.64	-0.00304	PASS
							-20	-7.11	-0.00283	PASS
							-10	-3.13	-0.00125	PASS
							0	-3.98	-0.00159	PASS
							10	-2.88	-0.00115	PASS
							20	-3.99	-0.00159	PASS
							30	-6.67	-0.00266	PASS
							40	-3.89	-0.00155	PASS
							50	-4.99	-0.00199	PASS
									20	MCH
		-20	3.76	0.00148	PASS					
		-10	1.09	0.00043	PASS					
		0	5.11	0.00202	PASS					
		10	5.31	0.00209	PASS					
		20	1.23	0.00049	PASS					
		30	3.05	0.0012	PASS					
		40	2.15	0.00085	PASS					
		50	3.68	0.00145	PASS					
				20	HCH	VN				
							-20	-1.42	-0.00055	PASS
							-10	0.20	0.00008	PASS
							0	-1.02	-0.0004	PASS
							10	-0.63	-0.00025	PASS
							20	0.07	0.00003	PASS
							30	0.01	0	PASS
							40	0.46	0.00018	PASS
							50	-0.03	-0.00001	PASS
							LTE/TM2	5	LCH	VN



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
		10			-20	1.89	0.00076	PASS		
					-10	0.49	0.0002	PASS		
					0	-0.20	-0.00008	PASS		
					10	2.25	0.0009	PASS		
					20	3.56	0.00142	PASS		
					30	1.79	0.00072	PASS		
					40	-0.16	-0.00006	PASS		
					50	0.09	0.00004	PASS		
			MCH	VN	-30	9.97	0.00393	PASS		
					-20	2.35	0.00093	PASS		
					-10	2.72	0.00107	PASS		
					0	1.80	0.00071	PASS		
					10	3.16	0.00125	PASS		
					20	1.26	0.0005	PASS		
					30	4.73	0.00187	PASS		
					40	3.65	0.00144	PASS		
			HCH	VN	-30	6.64	0.00259	PASS		
					-20	3.66	0.00143	PASS		
					-10	2.16	0.00084	PASS		
					0	2.68	0.00104	PASS		
					10	2.32	0.0009	PASS		
					20	4.35	0.00169	PASS		
					30	1.53	0.0006	PASS		
					40	7.10	0.00277	PASS		
			10	LCH	VN	-30	5.36	0.00214	PASS	
						-20	2.79	0.00111	PASS	
						-10	6.75	0.00269	PASS	
						0	3.56	0.00142	PASS	
		10				2.96	0.00118	PASS		
		20				5.64	0.00225	PASS		
		30				6.45	0.00257	PASS		
		40				12.33	0.00492	PASS		
		50				5.15	0.00206	PASS		
		MCH				VN	-30	5.36	0.00211	PASS
							-20	2.40	0.00095	PASS
							-10	0.54	0.00021	PASS
			0	1.83	0.00072		PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	2.15	0.00085	PASS
					20	2.53	0.001	PASS
					30	1.34	0.00053	PASS
					40	-0.63	-0.00025	PASS
					50	-0.79	-0.00031	PASS
			HCH	VN	-30	1.14	0.00044	PASS
					-20	2.43	0.00095	PASS
					-10	3.69	0.00144	PASS
					0	3.10	0.00121	PASS
					10	4.21	0.00164	PASS
					20	0.89	0.00035	PASS
					30	-0.79	-0.00031	PASS
					40	1.62	0.00063	PASS
					50	0.72	0.00028	PASS
					LCH	VN	-30	3.81
			-20	7.45			0.00297	PASS
			-10	4.05			0.00162	PASS
			0	2.99			0.00119	PASS
			10	2.30			0.00092	PASS
			20	2.95			0.00118	PASS
		30	3.59	0.00143			PASS	
		40	4.53	0.00181			PASS	
		50	1.93	0.00077			PASS	
		MCH	VN	-30			5.06	0.002
				-20	3.46	0.00136	PASS	
				-10	3.99	0.00157	PASS	
				0	4.32	0.0017	PASS	
				10	1.12	0.00044	PASS	
				20	4.49	0.00177	PASS	
				30	2.32	0.00092	PASS	
				40	1.99	0.00079	PASS	
				50	2.16	0.00085	PASS	
				HCH	VN	-30	2.29	0.00089
		-20	4.94			0.00193	PASS	
		-10	4.41			0.00172	PASS	
		0	2.20			0.00086	PASS	
		10	2.29			0.00089	PASS	
		20	2.68			0.00105	PASS	
		30	3.03			0.00118	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	3.05	0.00119	PASS
					50	1.90	0.00074	PASS
		20	LCH	VN	-30	-3.60	-0.00143	PASS
					-20	-1.06	-0.00042	PASS
					-10	-1.53	-0.00061	PASS
					0	0.97	0.00039	PASS
					10	-1.04	-0.00041	PASS
					20	-2.60	-0.00104	PASS
					30	-1.73	-0.00069	PASS
					40	-2.98	-0.00119	PASS
					50	2.60	0.00104	PASS
					MCH	VN	-30	2.79
			-20	1.47			0.00058	PASS
			-10	0.89			0.00035	PASS
			0	2.33			0.00092	PASS
			10	2.57			0.00101	PASS
			20	2.29			0.0009	PASS
			30	2.63			0.00104	PASS
			40	2.86			0.00113	PASS
			HCH	VN	-30	0.20	0.00008	PASS
					-20	1.19	0.00046	PASS
					-10	0.23	0.00009	PASS
					0	0.24	0.00009	PASS
					10	-0.53	-0.00021	PASS
					20	0.66	0.00026	PASS
					30	0.87	0.00034	PASS
		40			0.53	0.00021	PASS	
			50	0.31	0.00012	PASS		

END