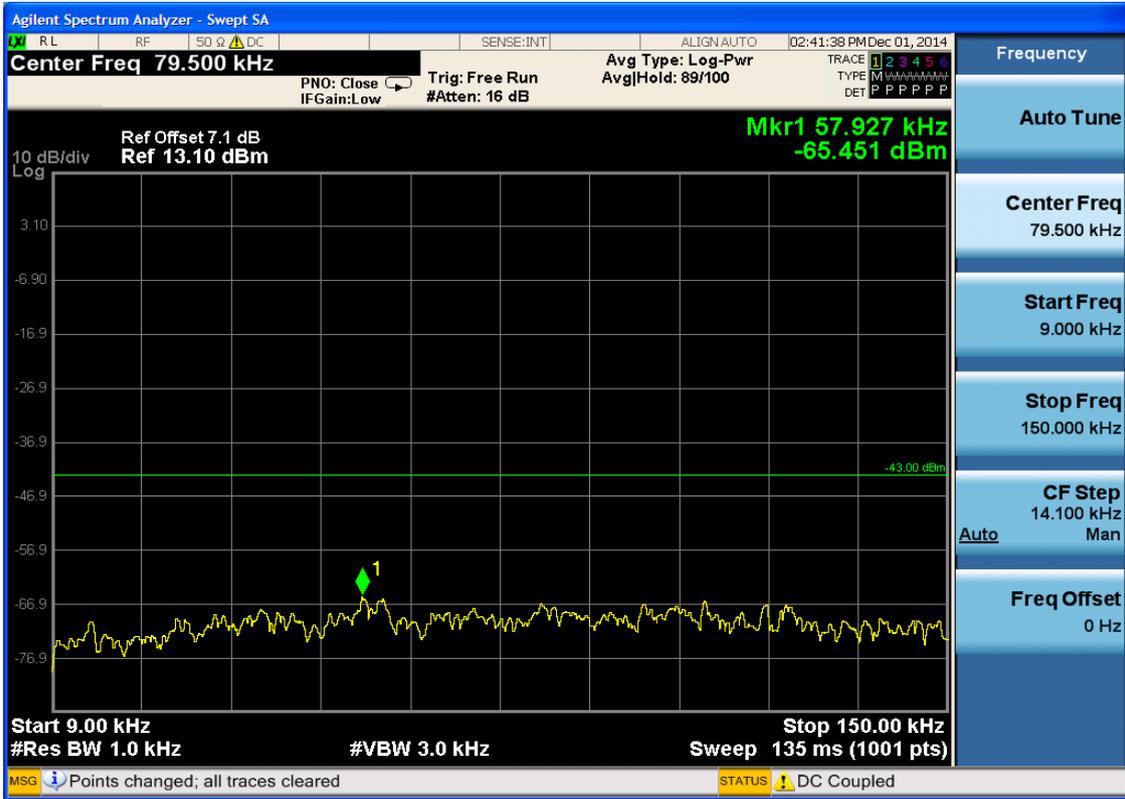
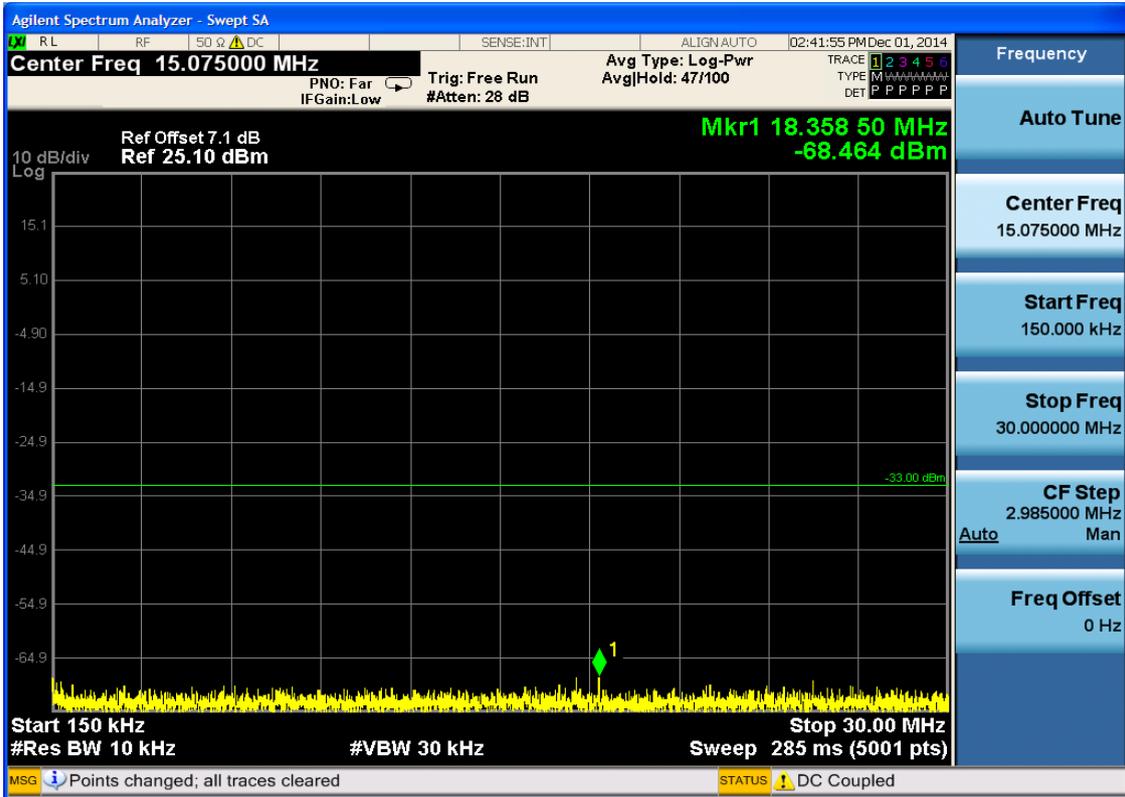


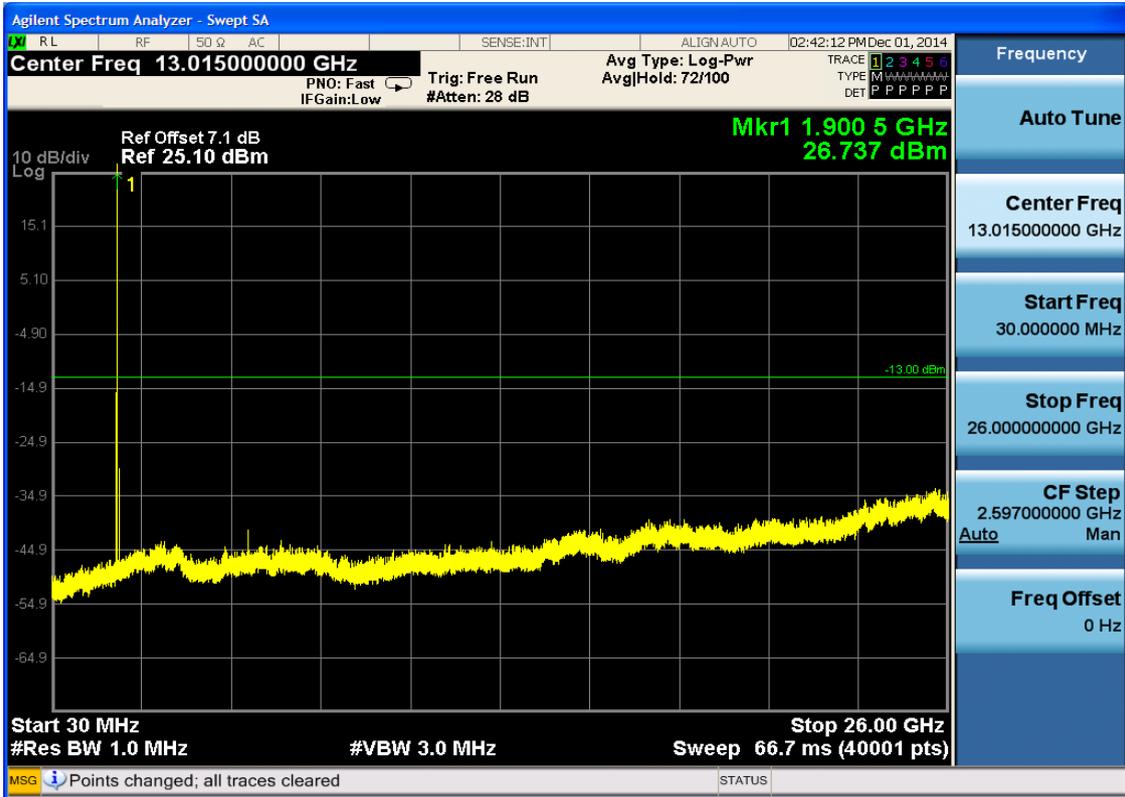


6.1.3.1.4.3 Test Channel = HCH

6.1.3.1.4.3.1 Test RB = RB1#0







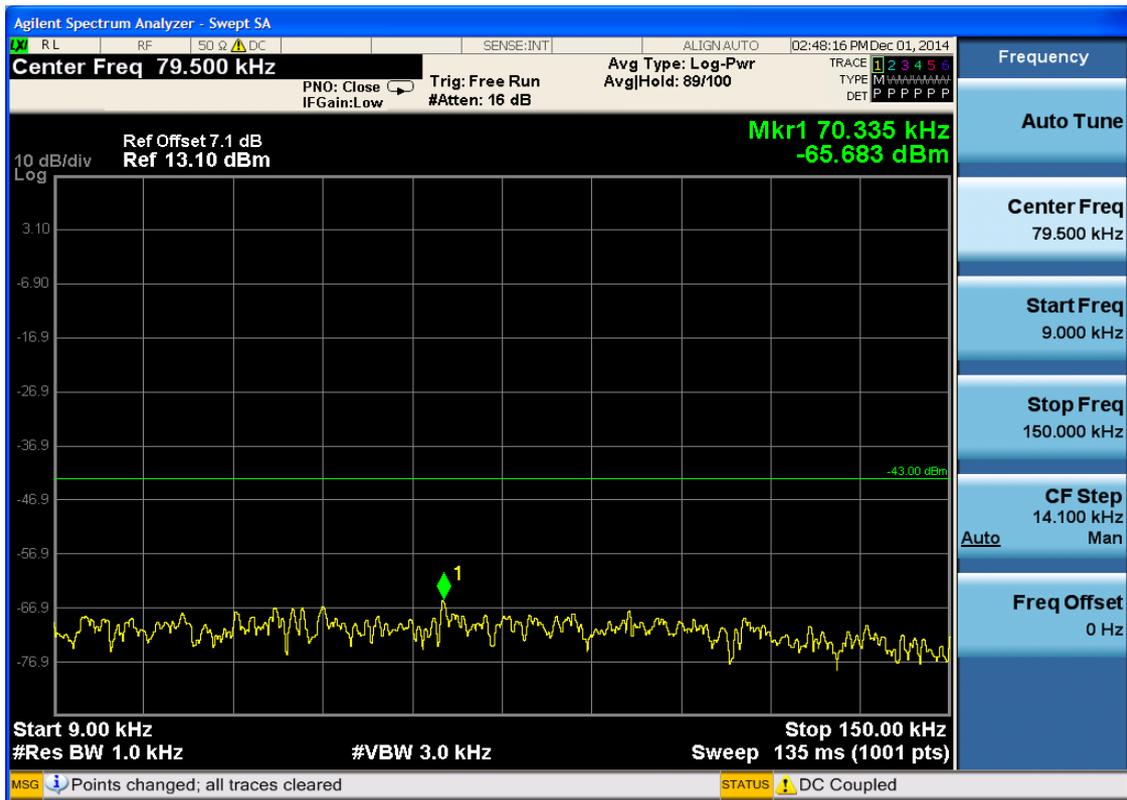


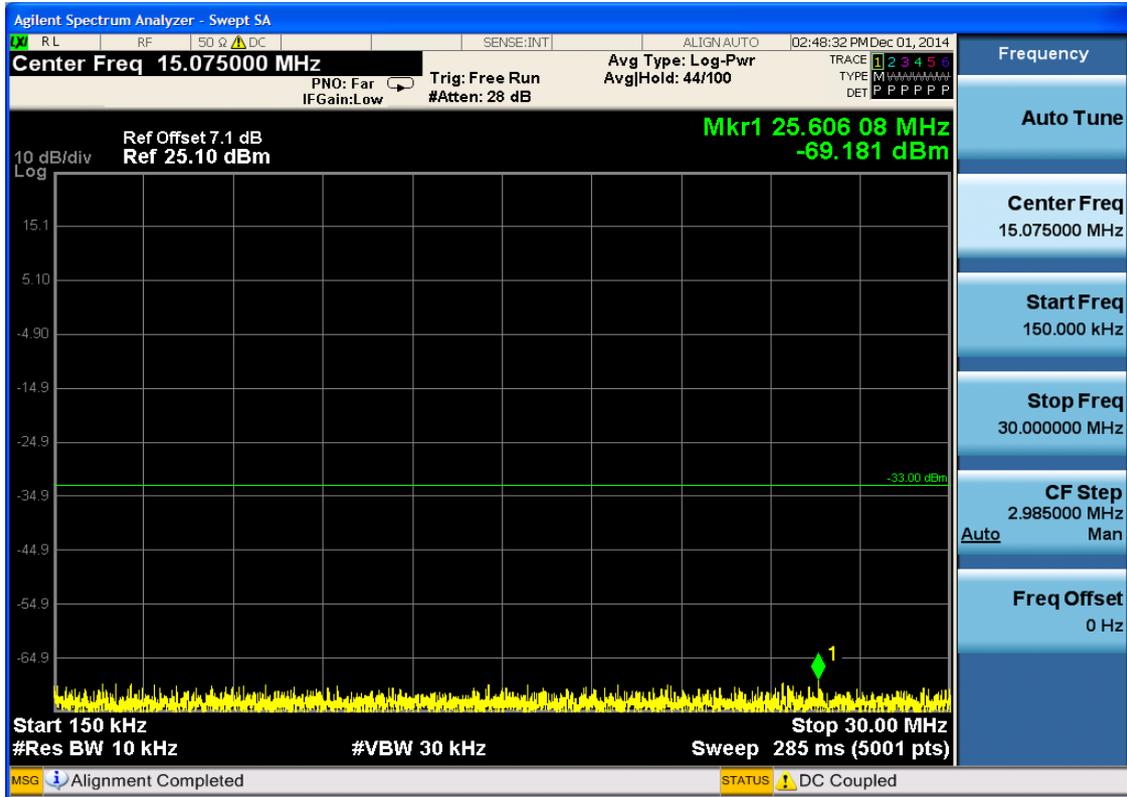
6.1.3.2 Test Mode = LTE/TM2

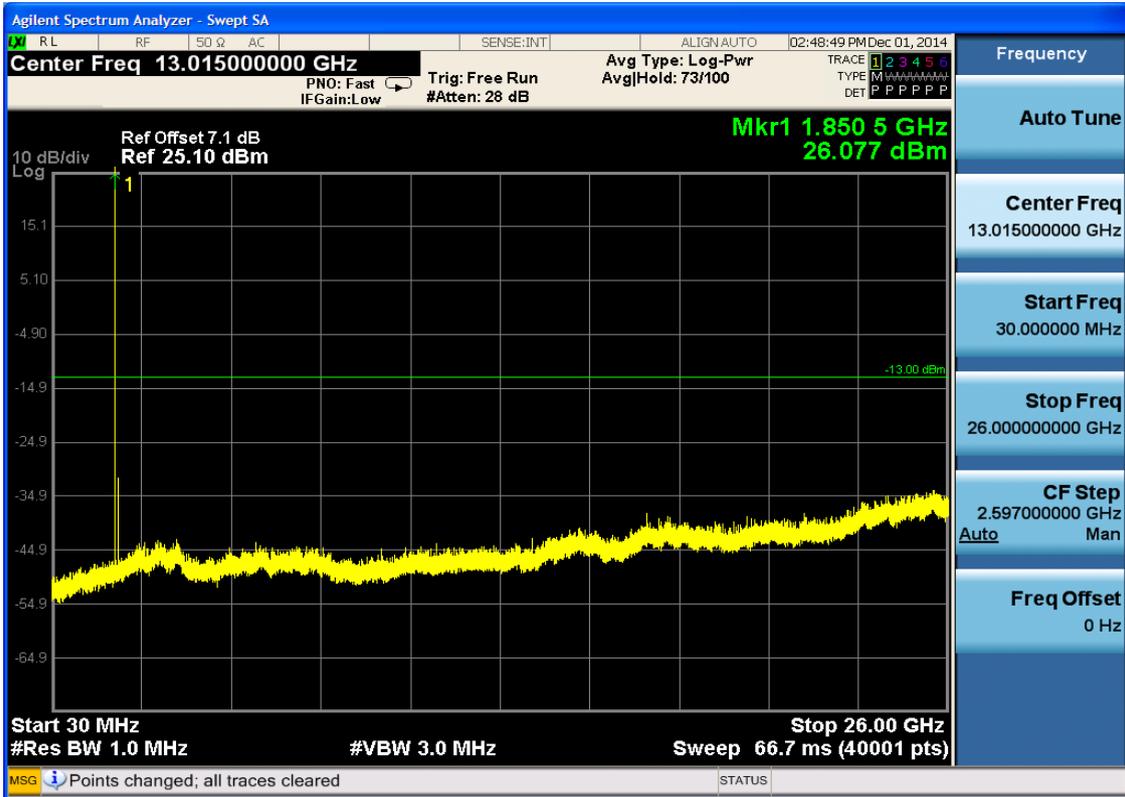
6.1.3.2.1 Test Bandwidth = 1.4

6.1.3.2.1.1 Test Channel = LCH

6.1.3.2.1.1.1 Test RB = RB1#0



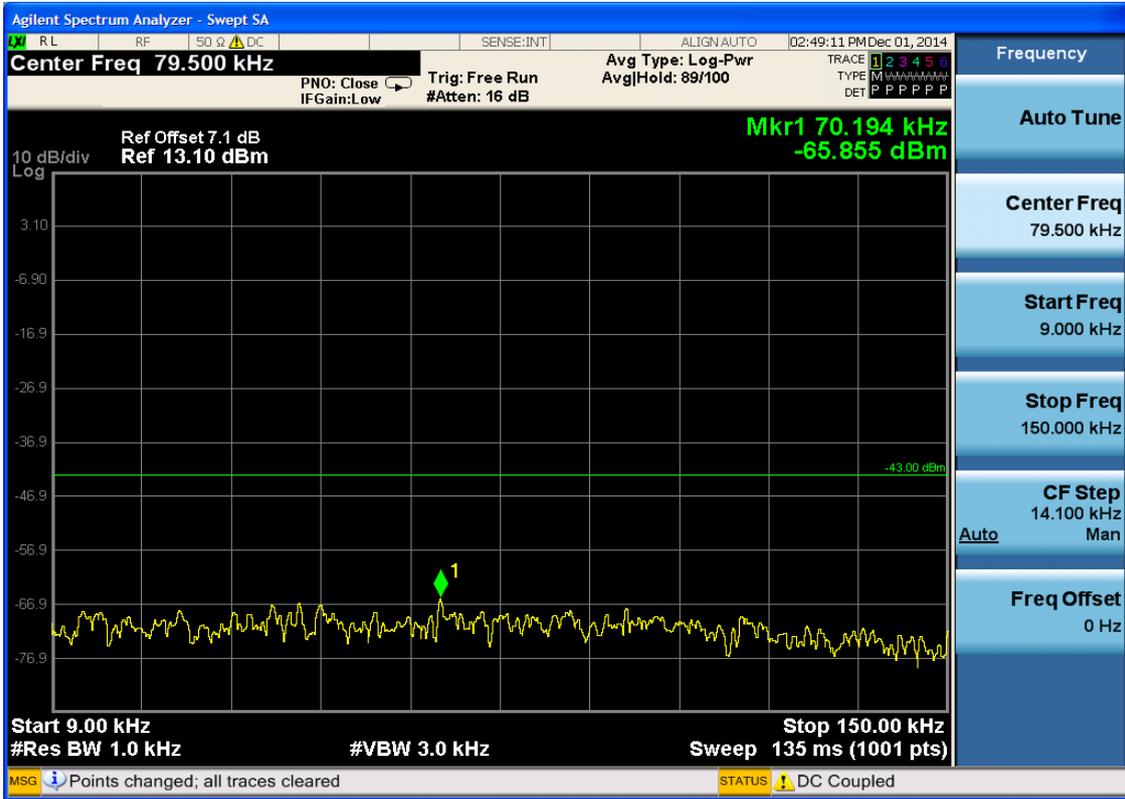


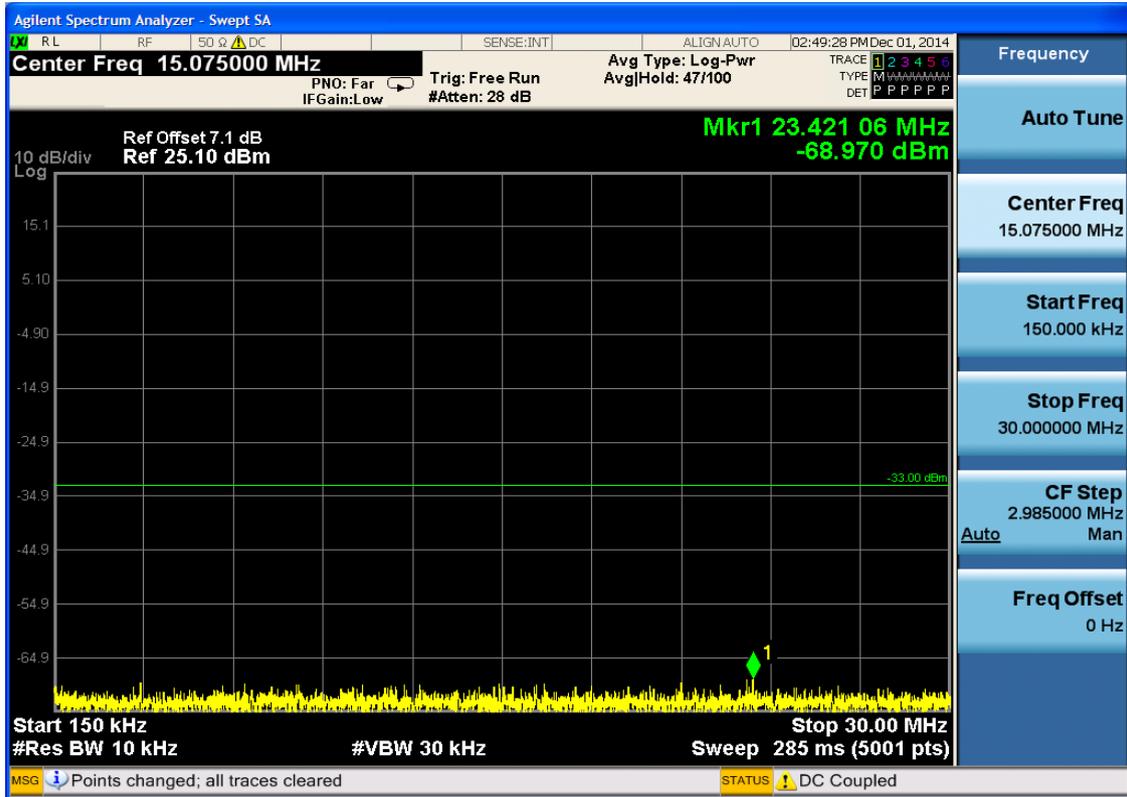


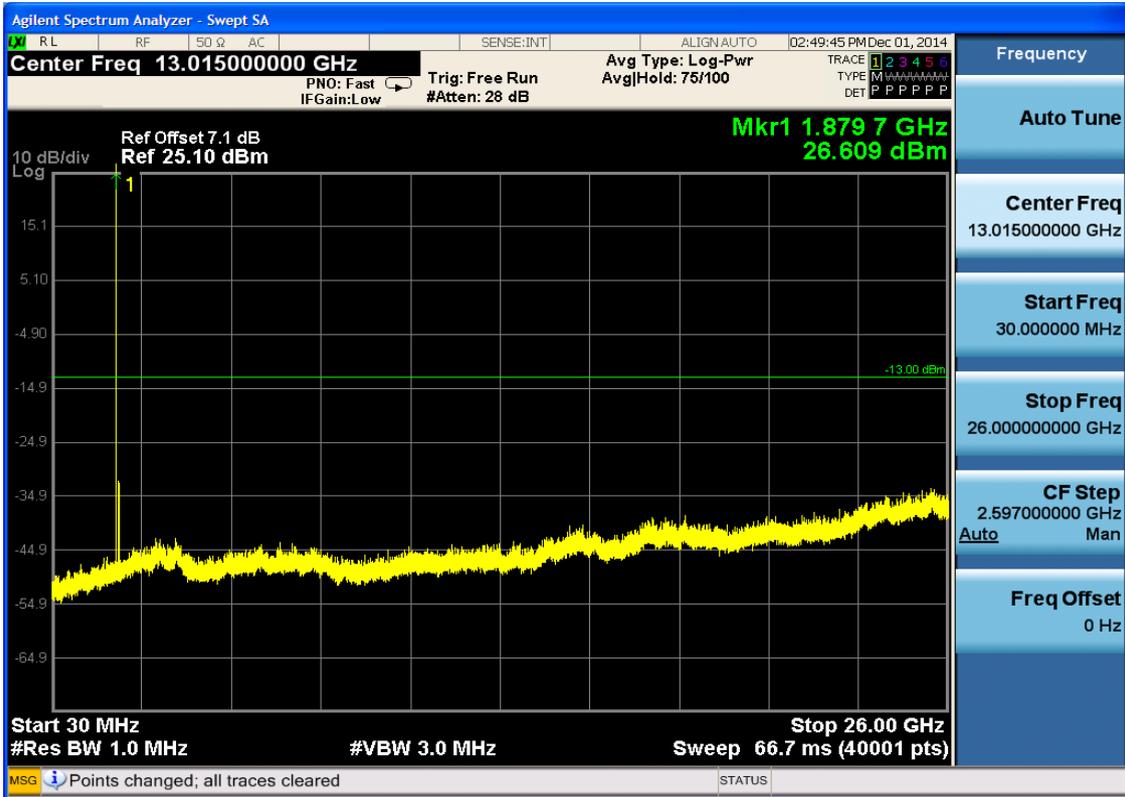


6.1.3.2.1.2 Test Channel = MCH

6.1.3.2.1.2.1 Test RB = RB1#0



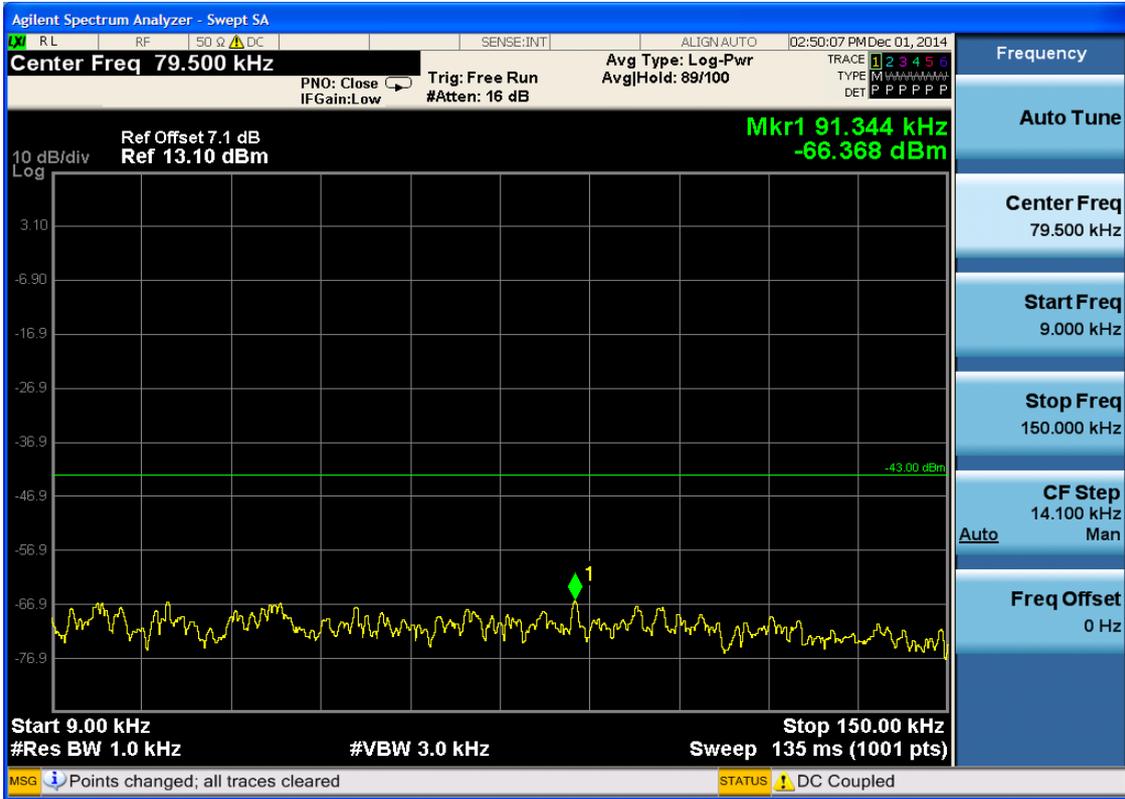


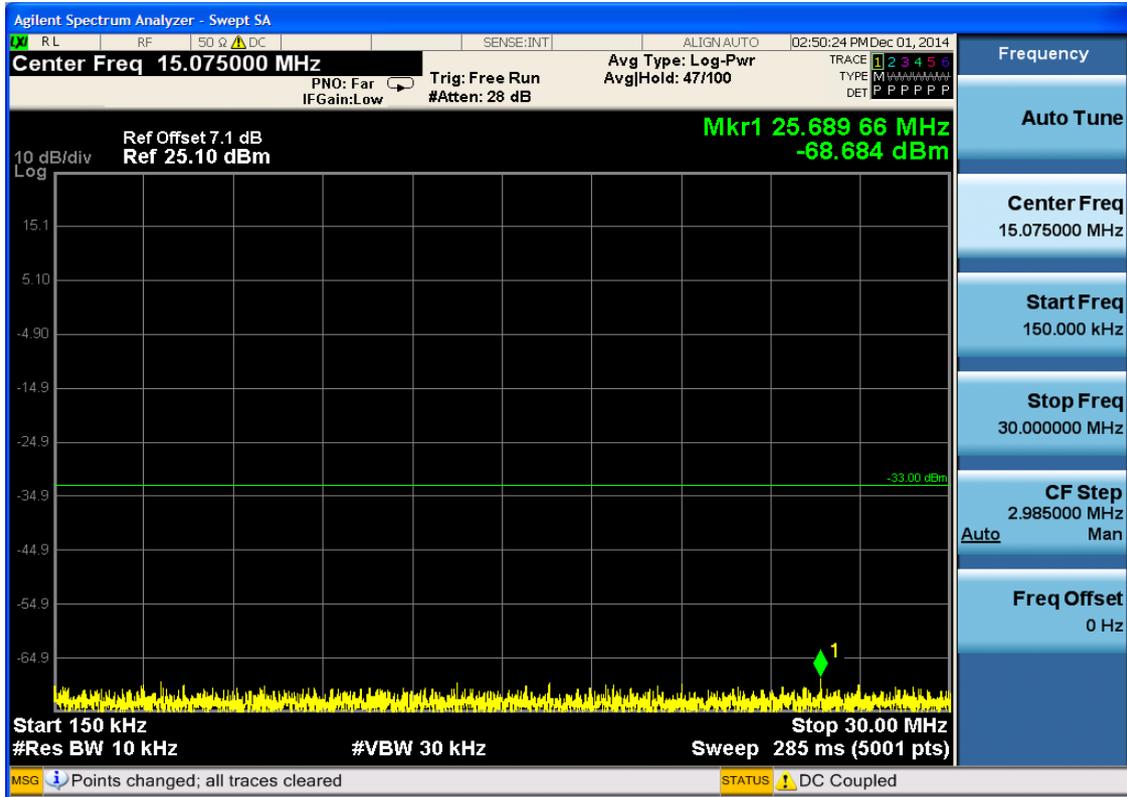


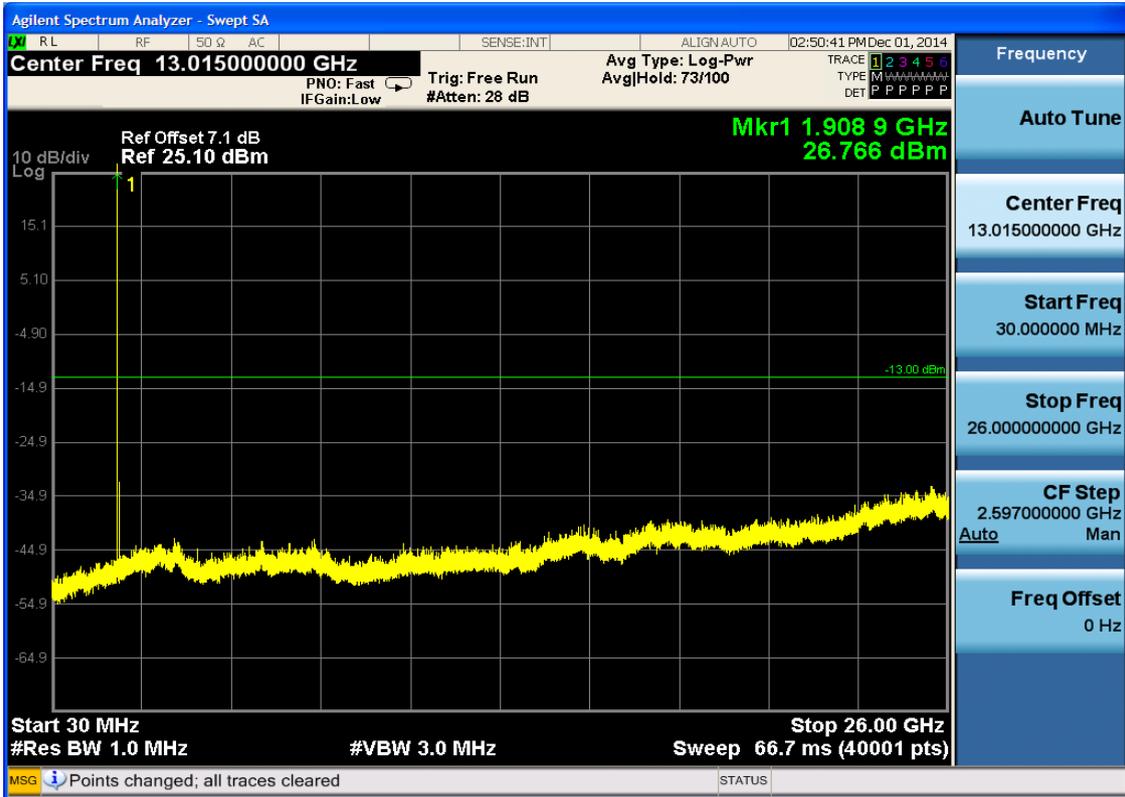


6.1.3.2.1.3 Test Channel = HCH

6.1.3.2.1.3.1 Test RB = RB1#0





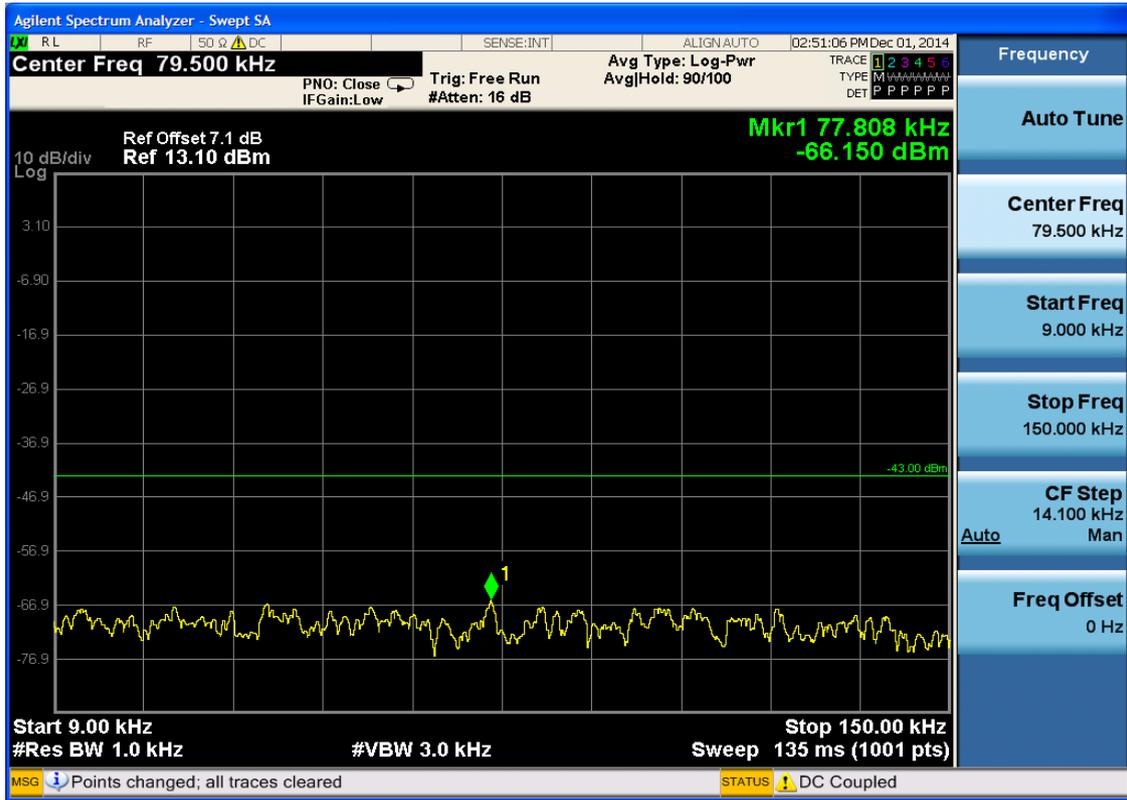


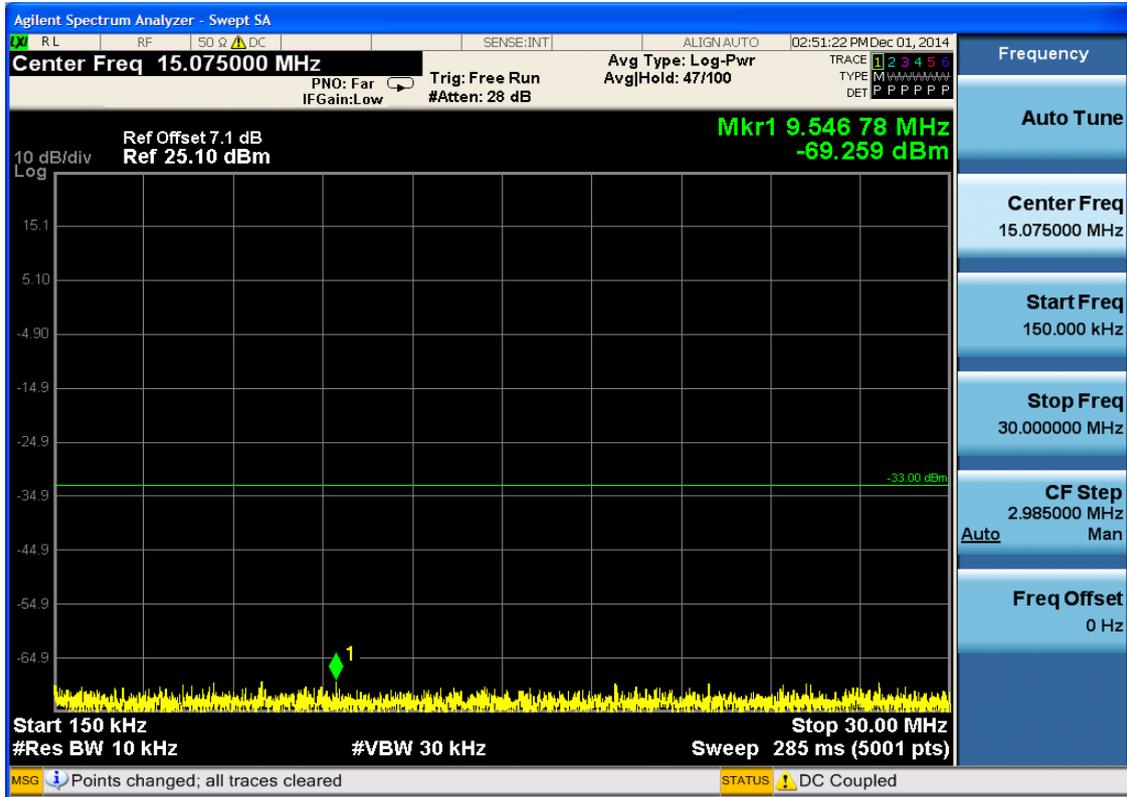


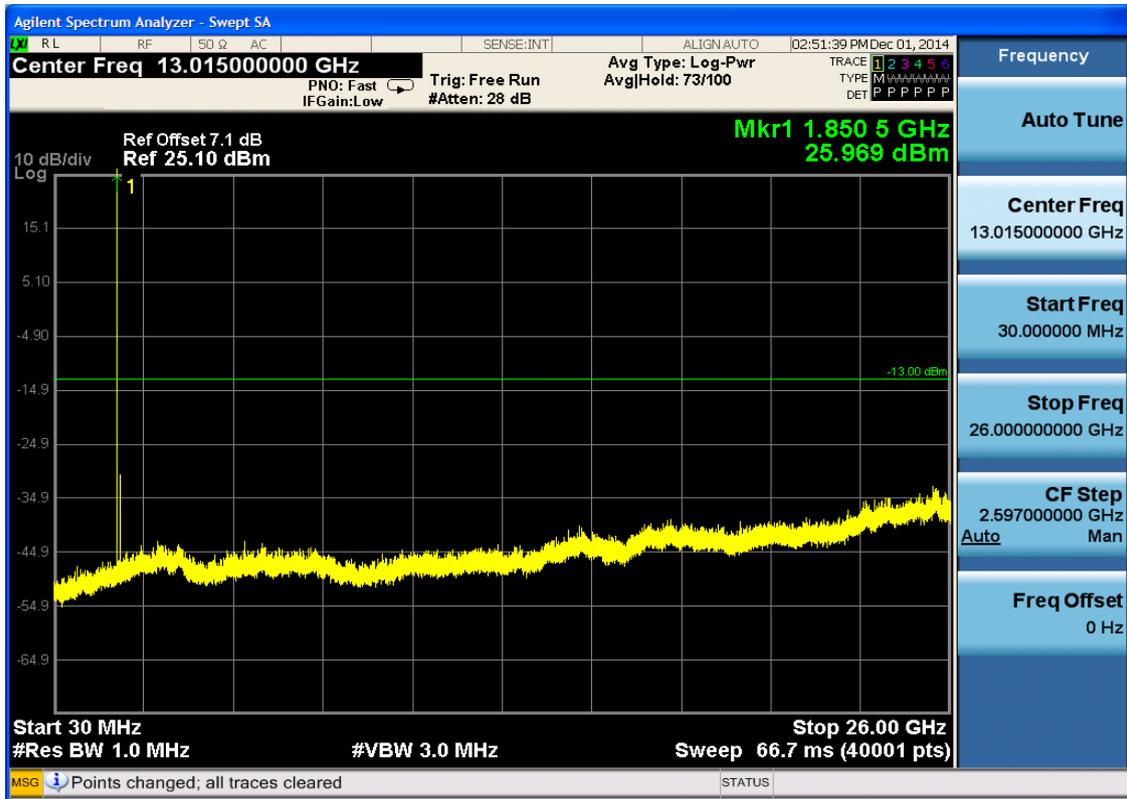
6.1.3.2.2 Test Bandwidth = 3

6.1.3.2.2.1 Test Channel = LCH

6.1.3.2.2.1.1 Test RB = RB1#0



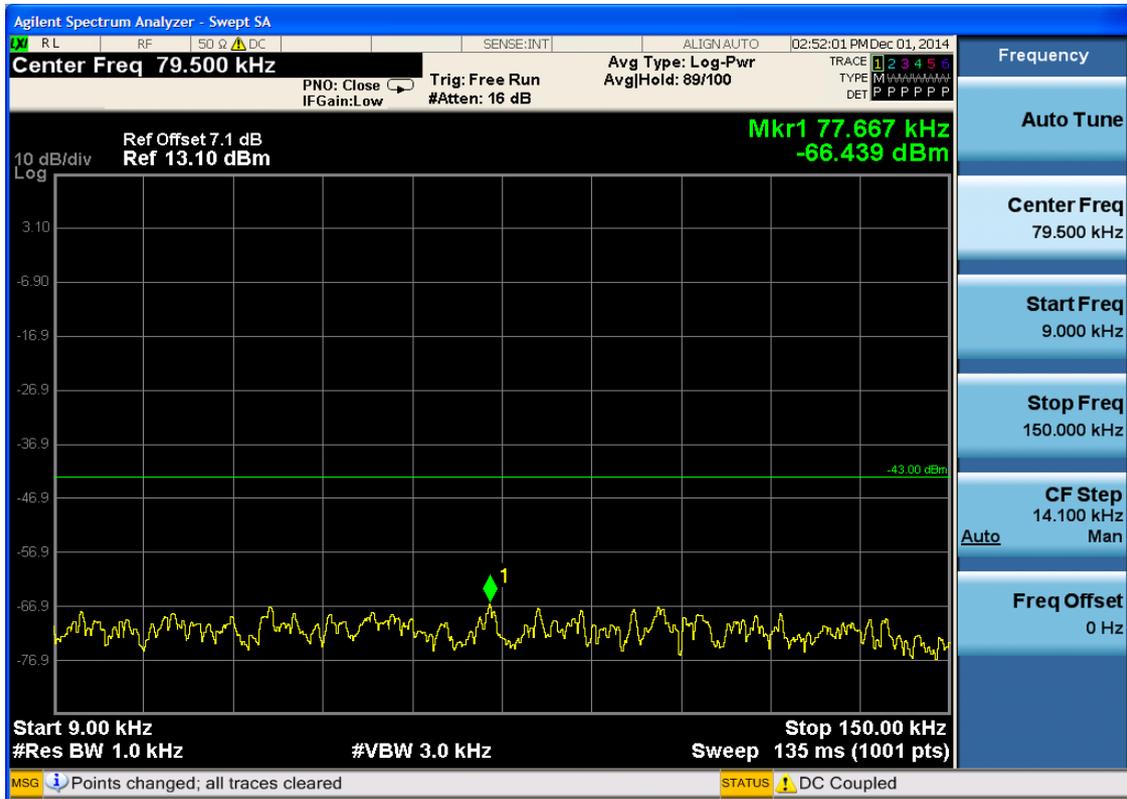




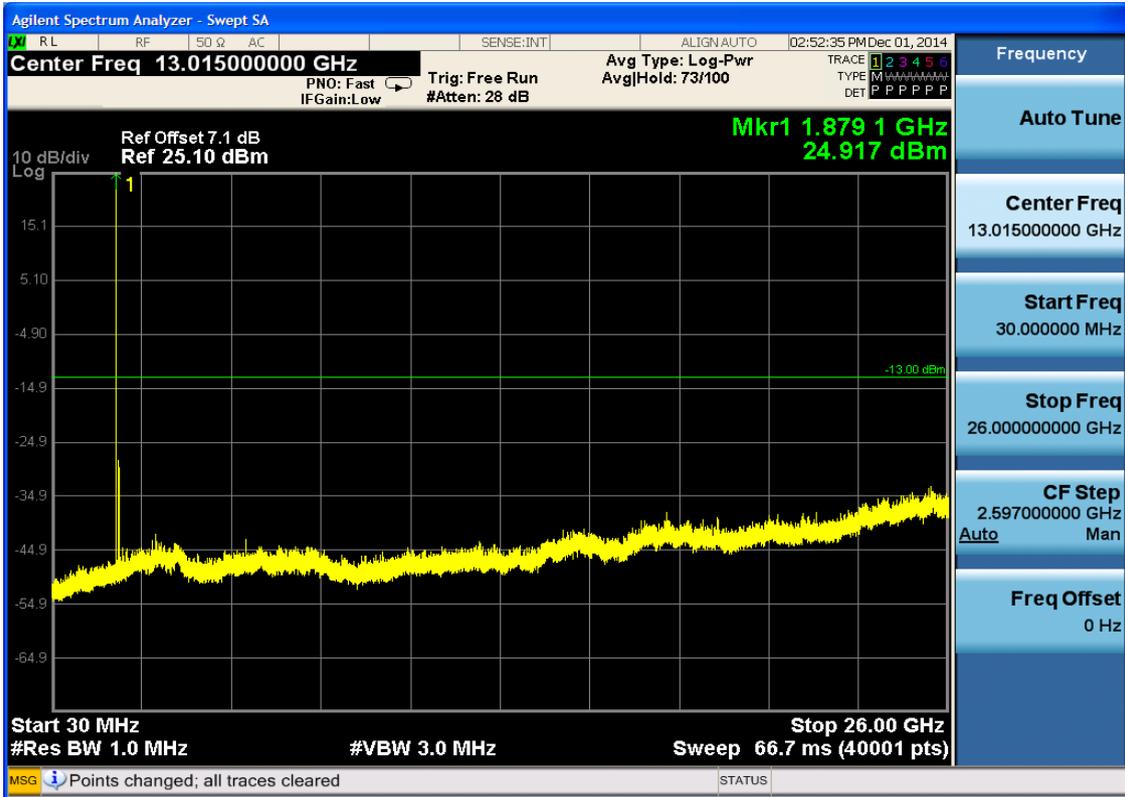


6.1.3.2.2 Test Channel = MCH

6.1.3.2.2.1 Test RB = RB1#0



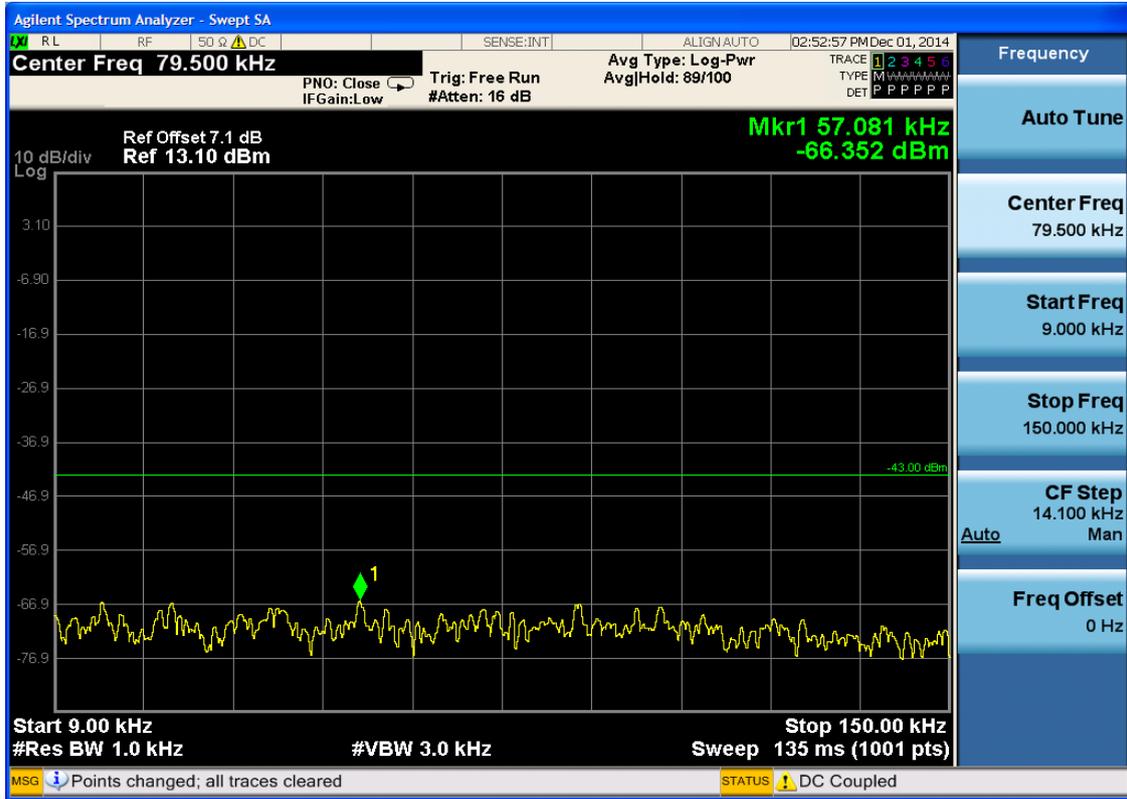




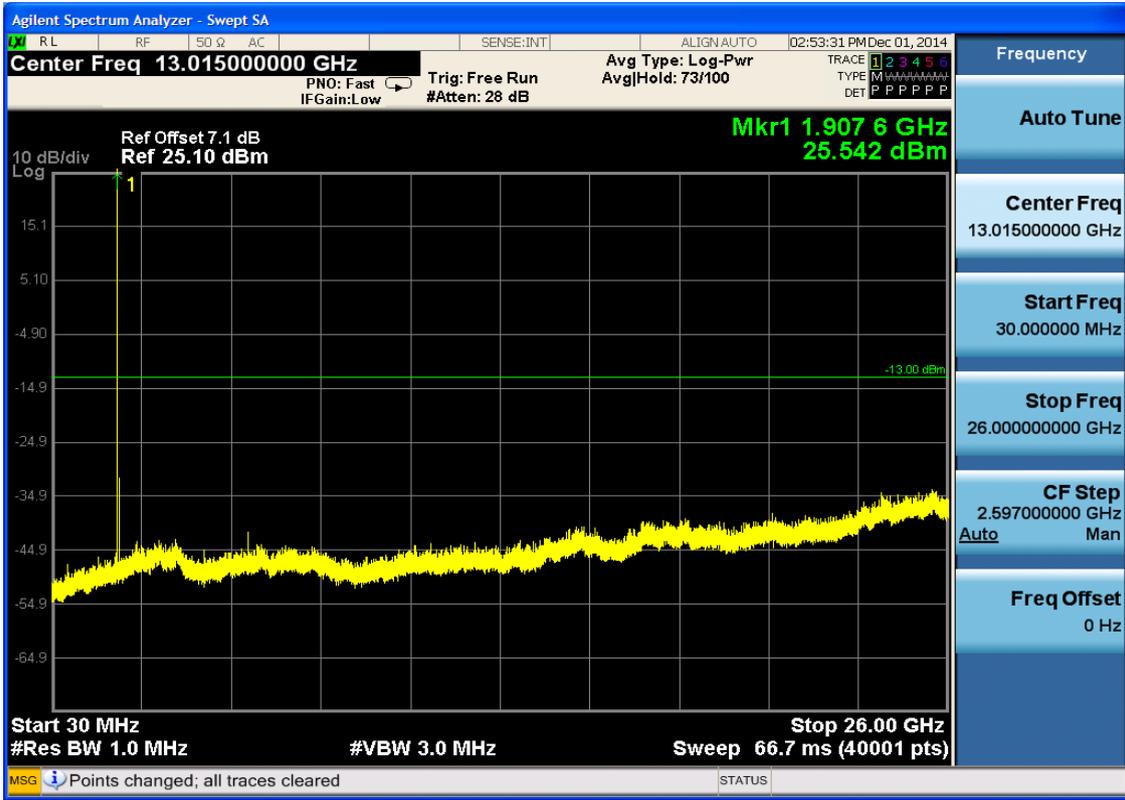


6.1.3.2.2.3 Test Channel = HCH

6.1.3.2.2.3.1 Test RB = RB1#0





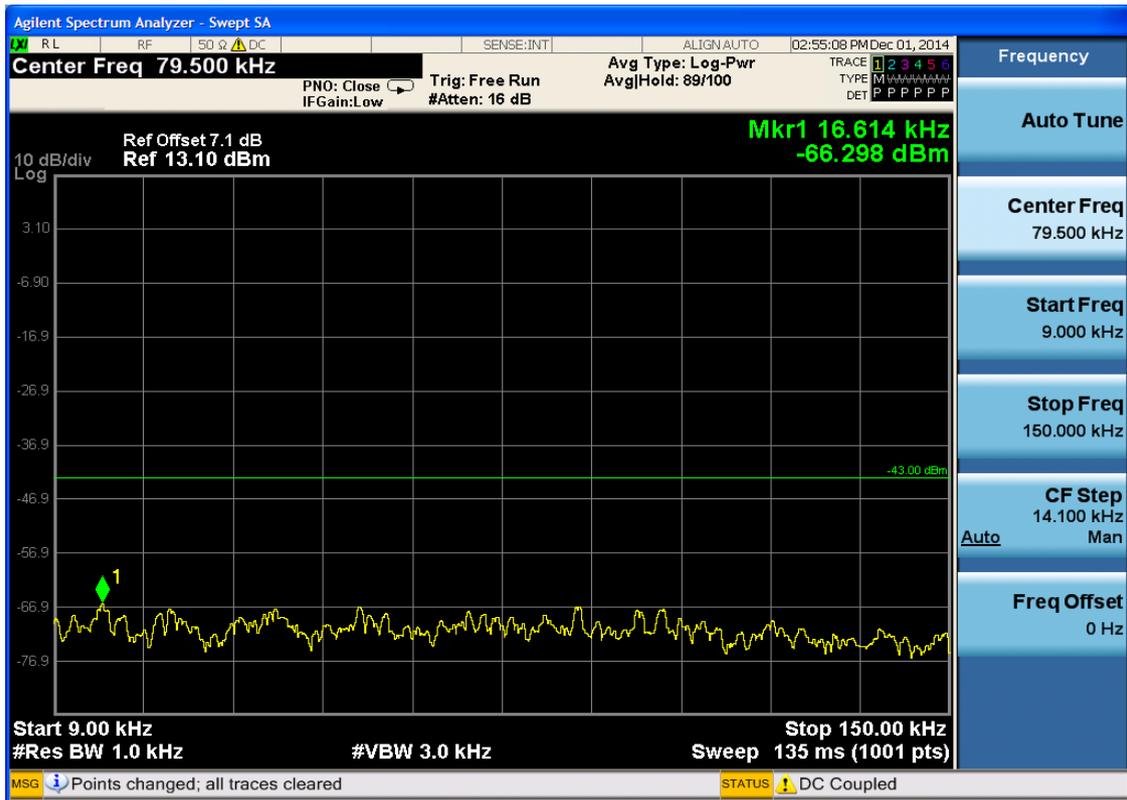




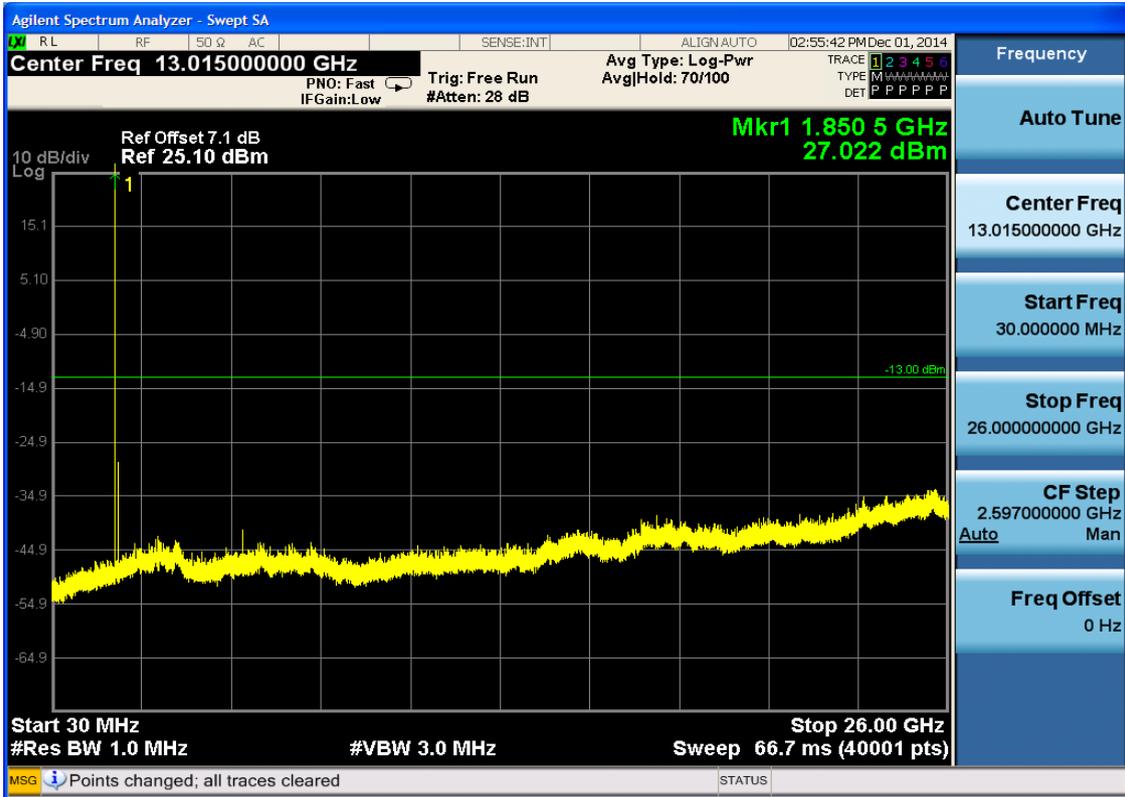
6.1.3.2.3 Test Bandwidth = 5

6.1.3.2.3.1 Test Channel = LCH

6.1.3.2.3.1.1 Test RB = RB1#0



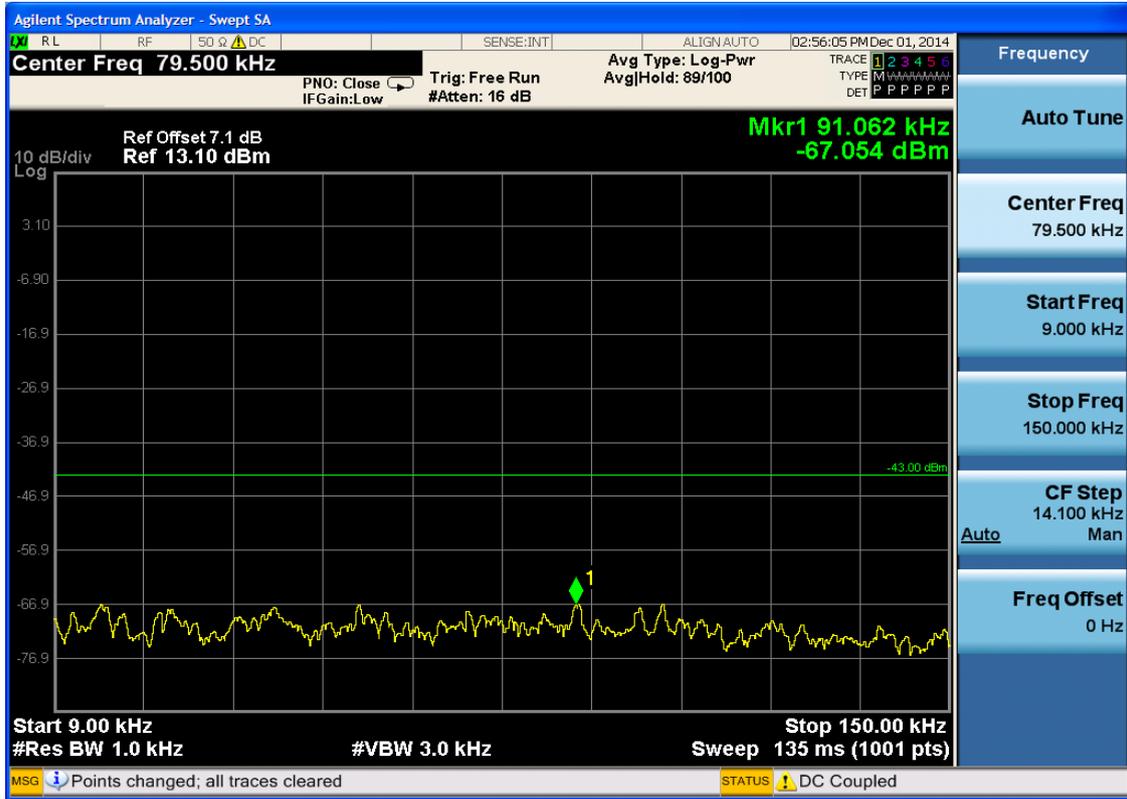


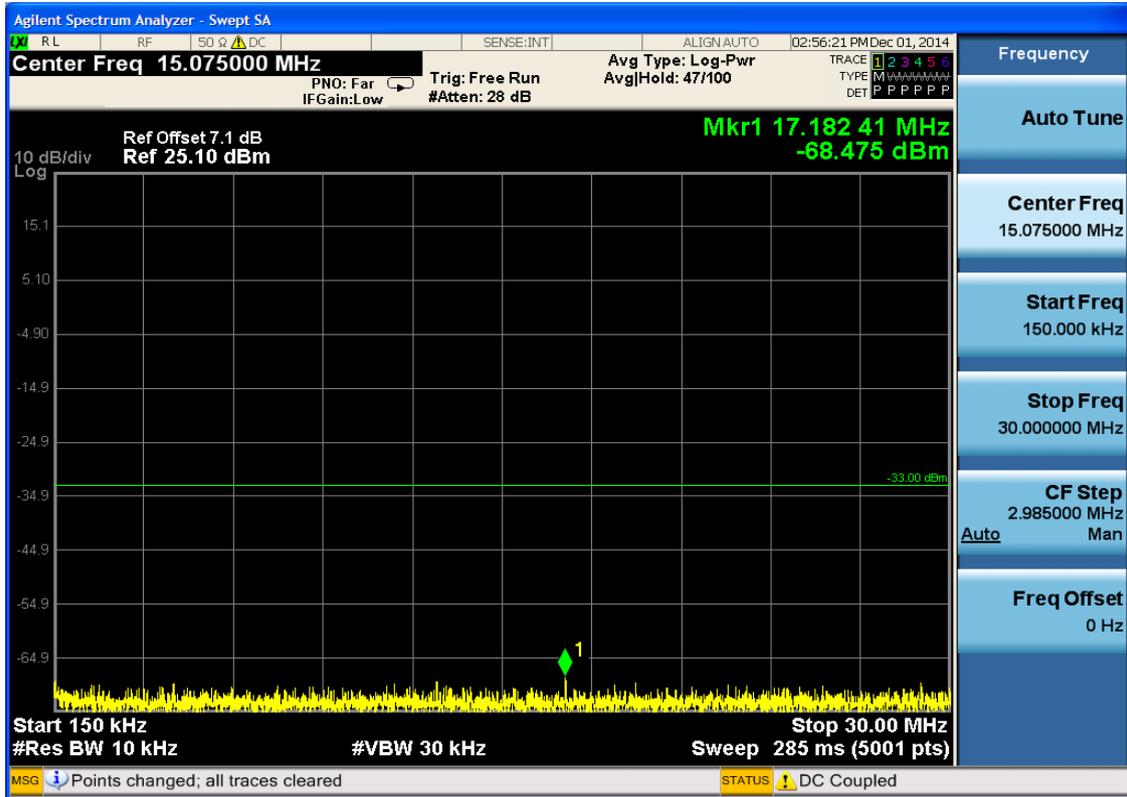


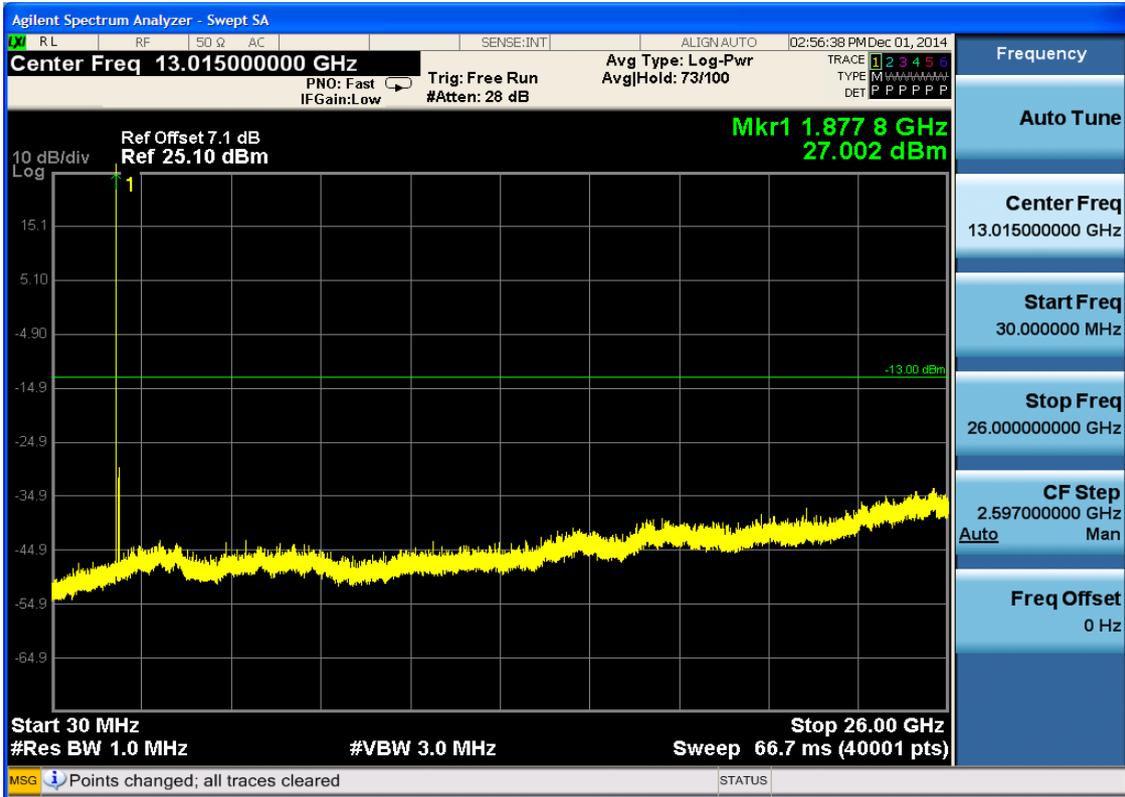


6.1.3.2.3.2 Test Channel = MCH

6.1.3.2.3.2.1 Test RB = RB1#0



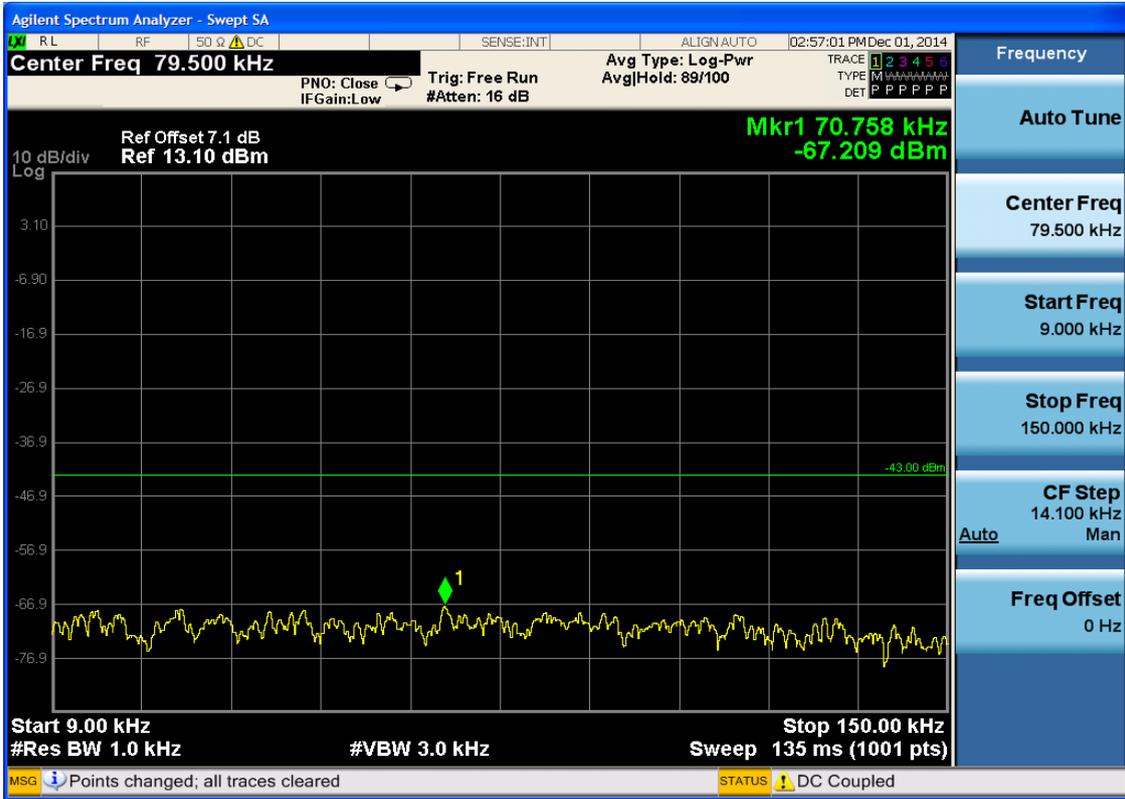


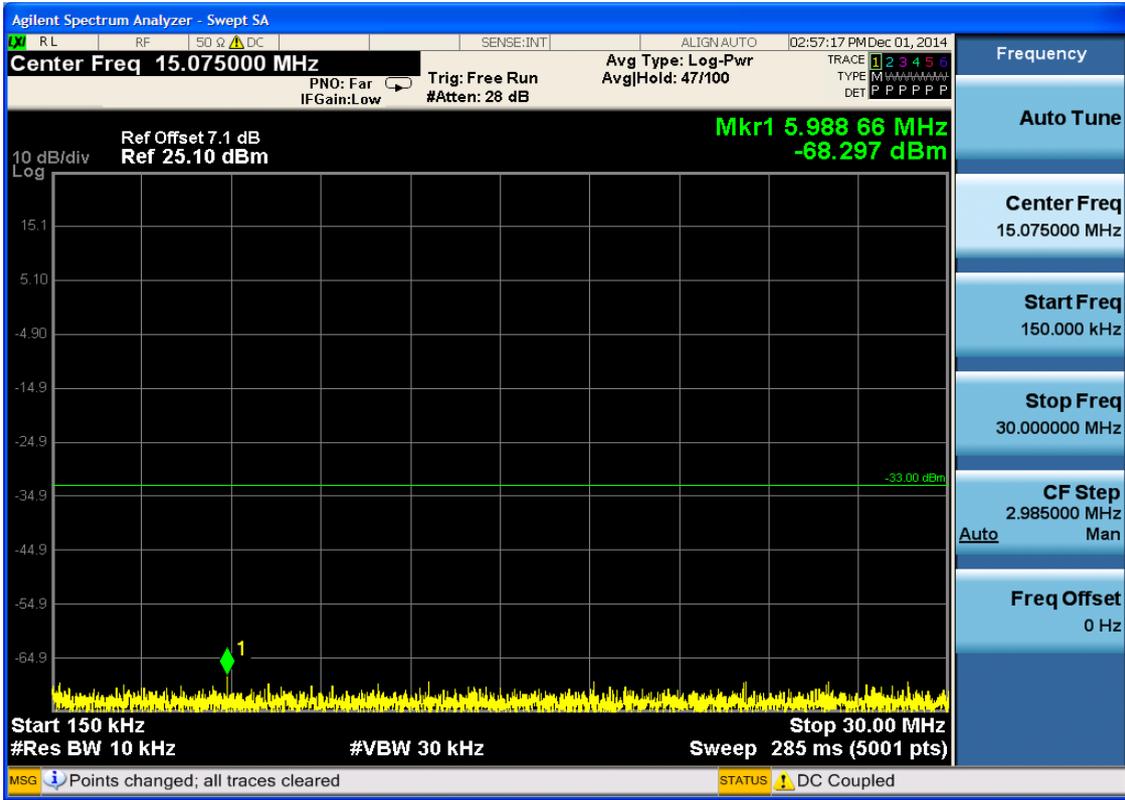


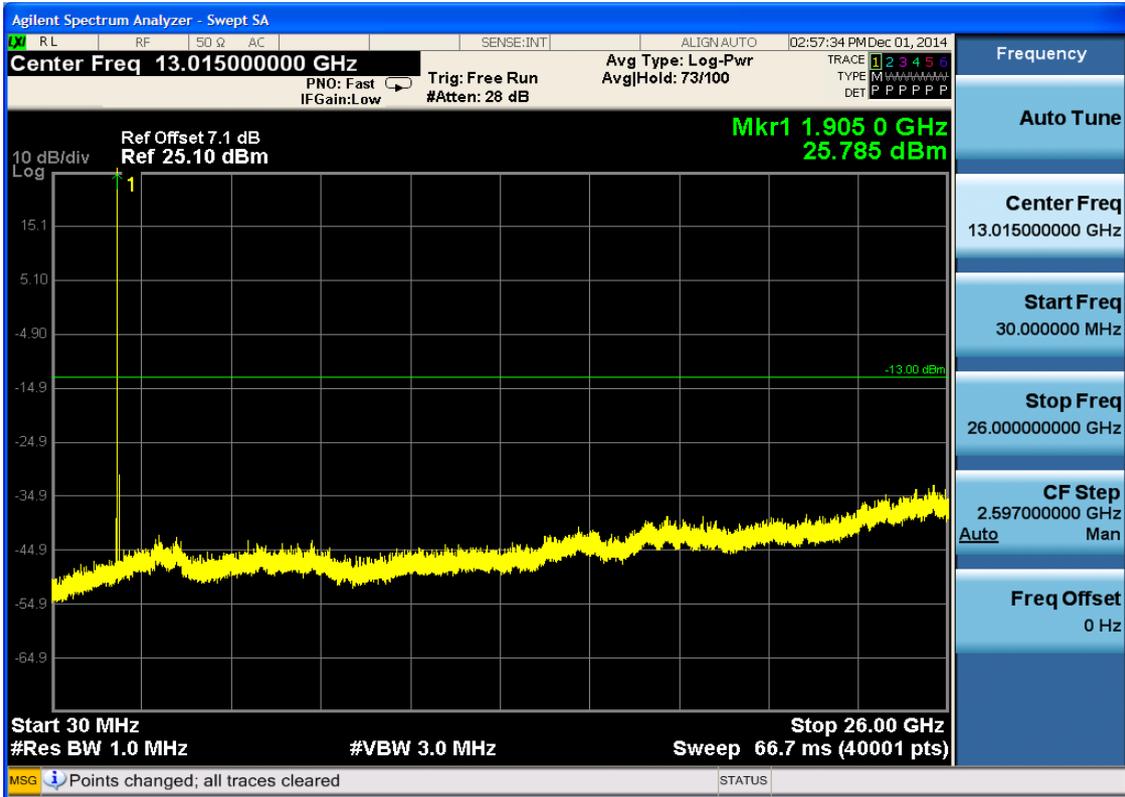


6.1.3.2.3.3 Test Channel = HCH

6.1.3.2.3.3.1 Test RB = RB1#0





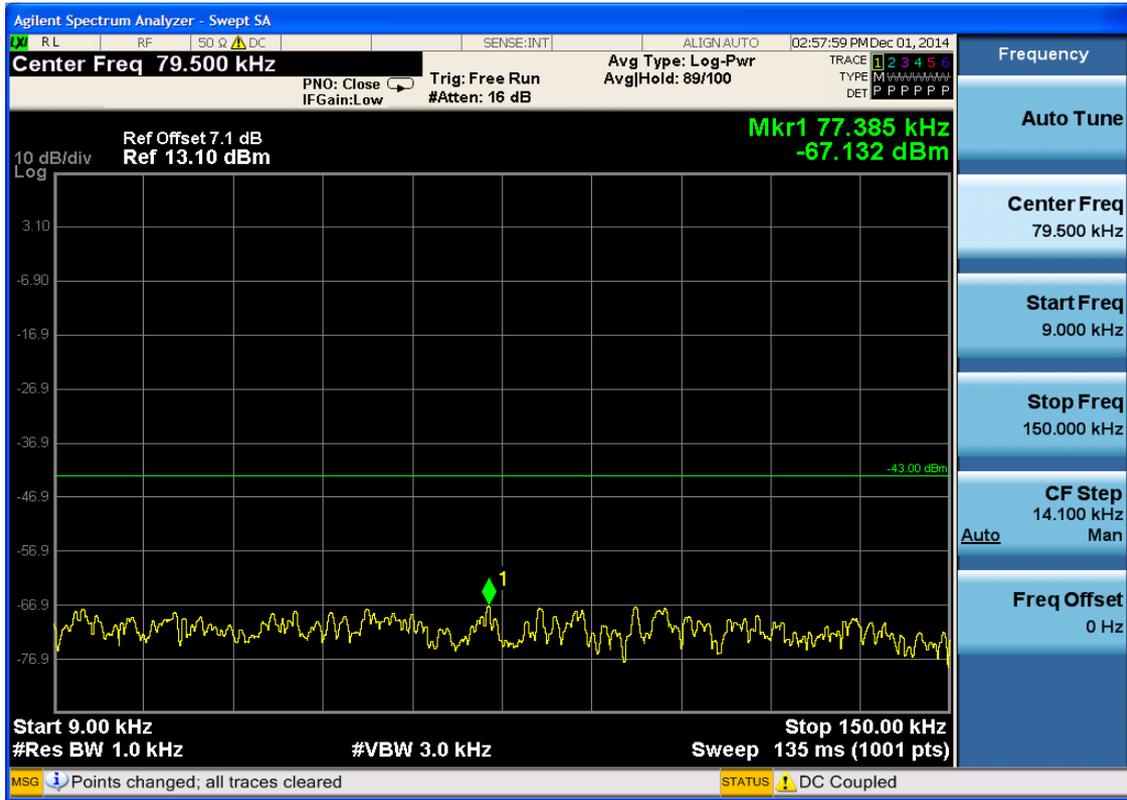


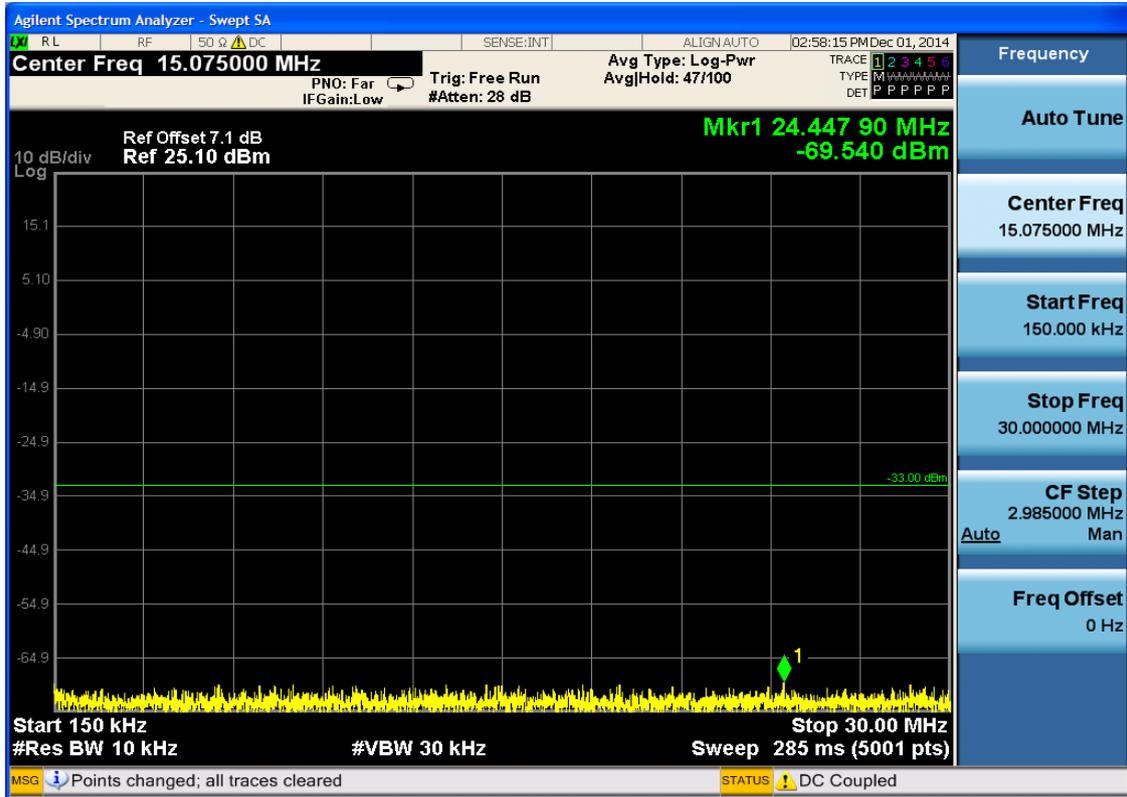


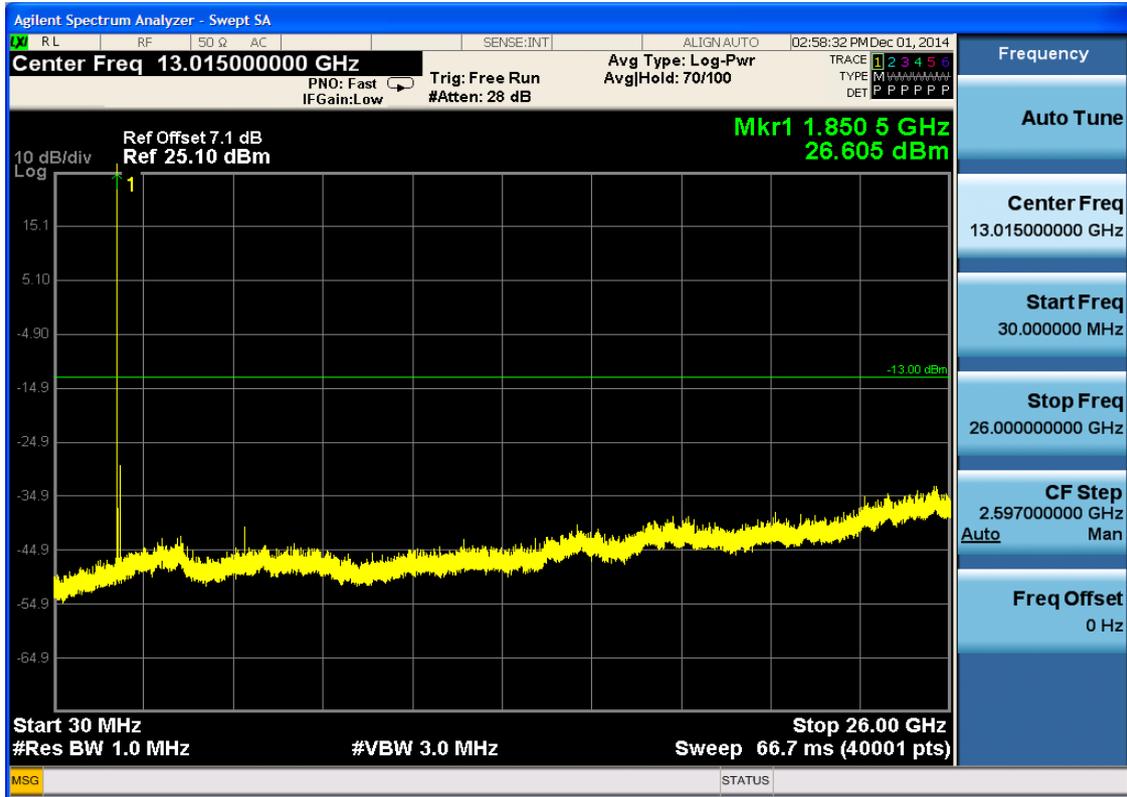
6.1.3.2.4 Test Bandwidth = 10

6.1.3.2.4.1 Test Channel = LCH

6.1.3.2.4.1.1 Test RB = RB1#0



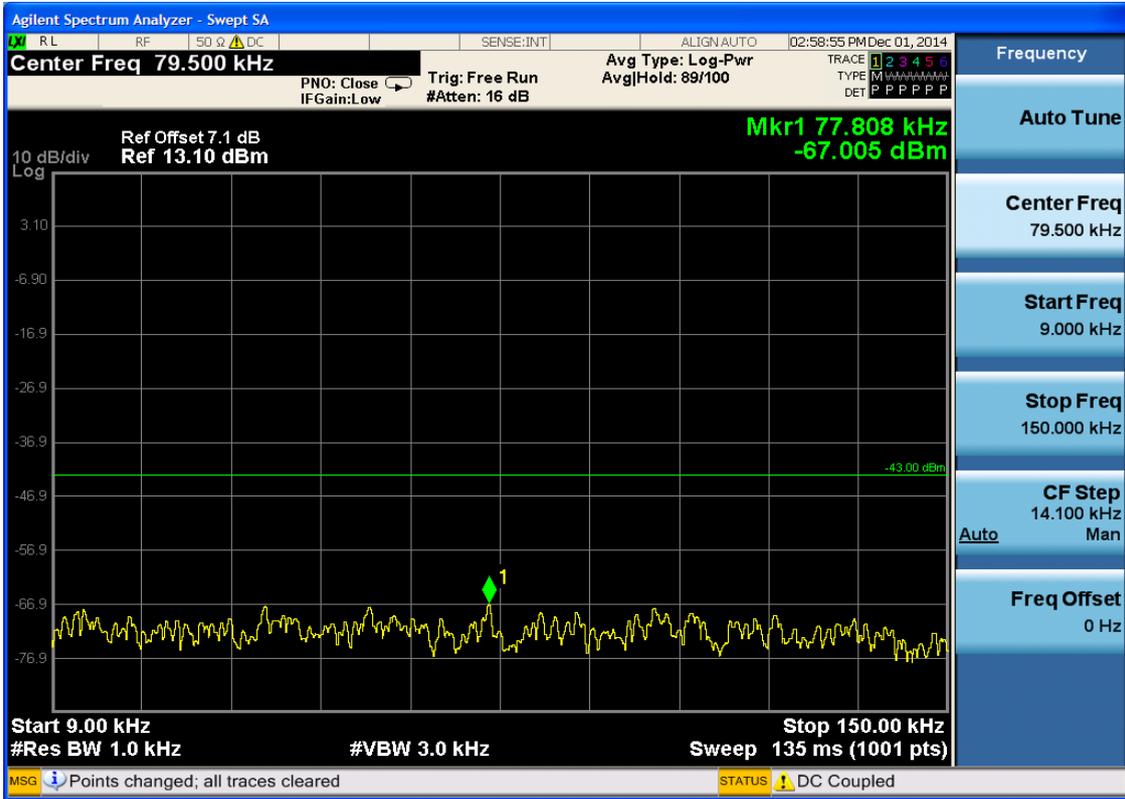


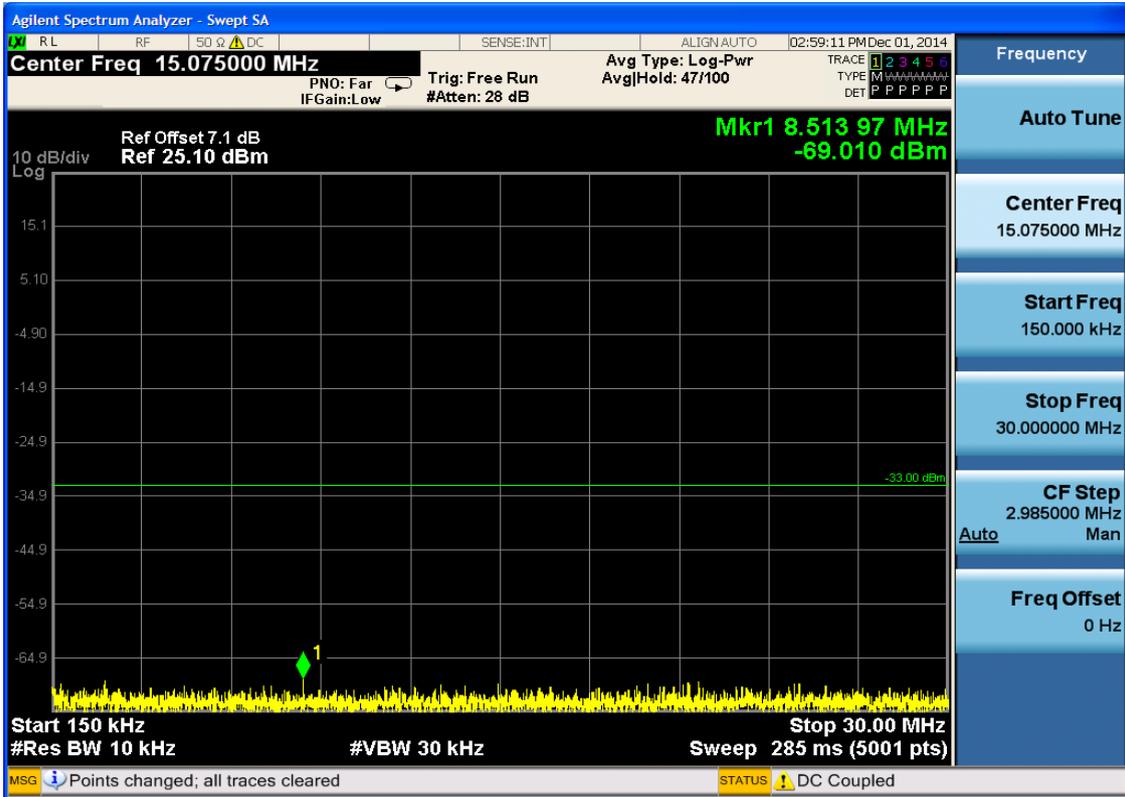


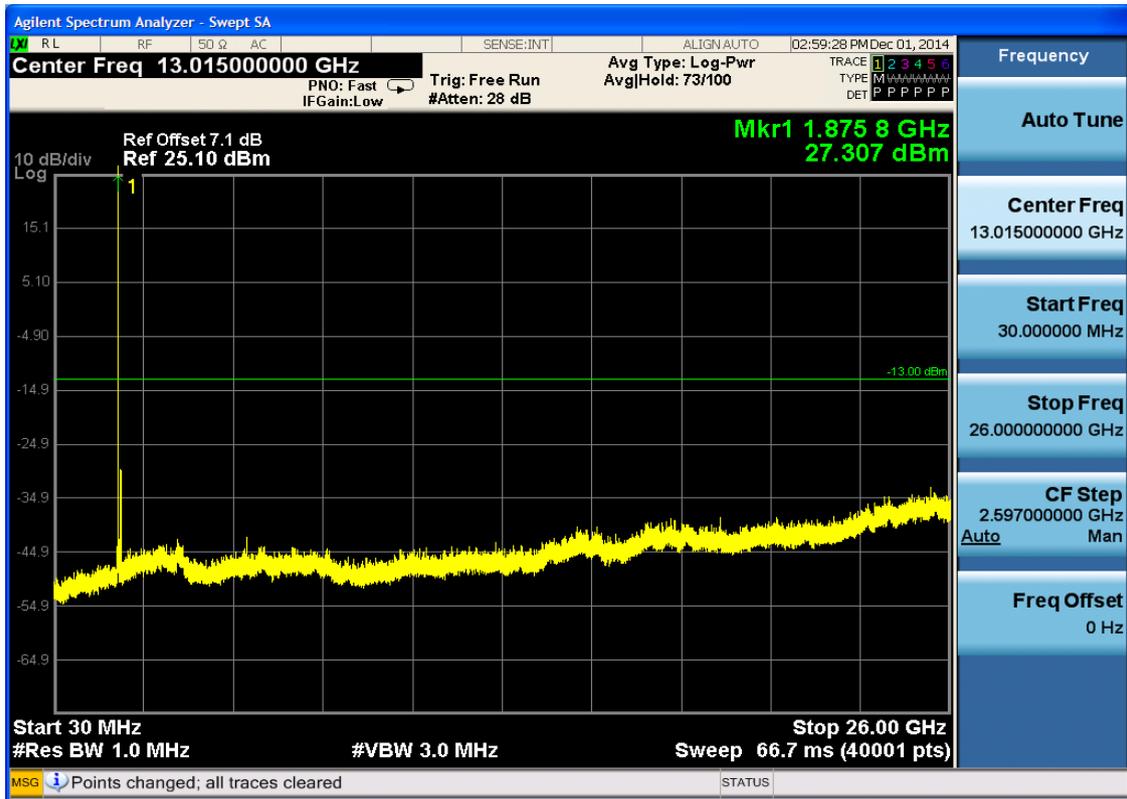


6.1.3.2.4.2 Test Channel = MCH

6.1.3.2.4.2.1 Test RB = RB1#0



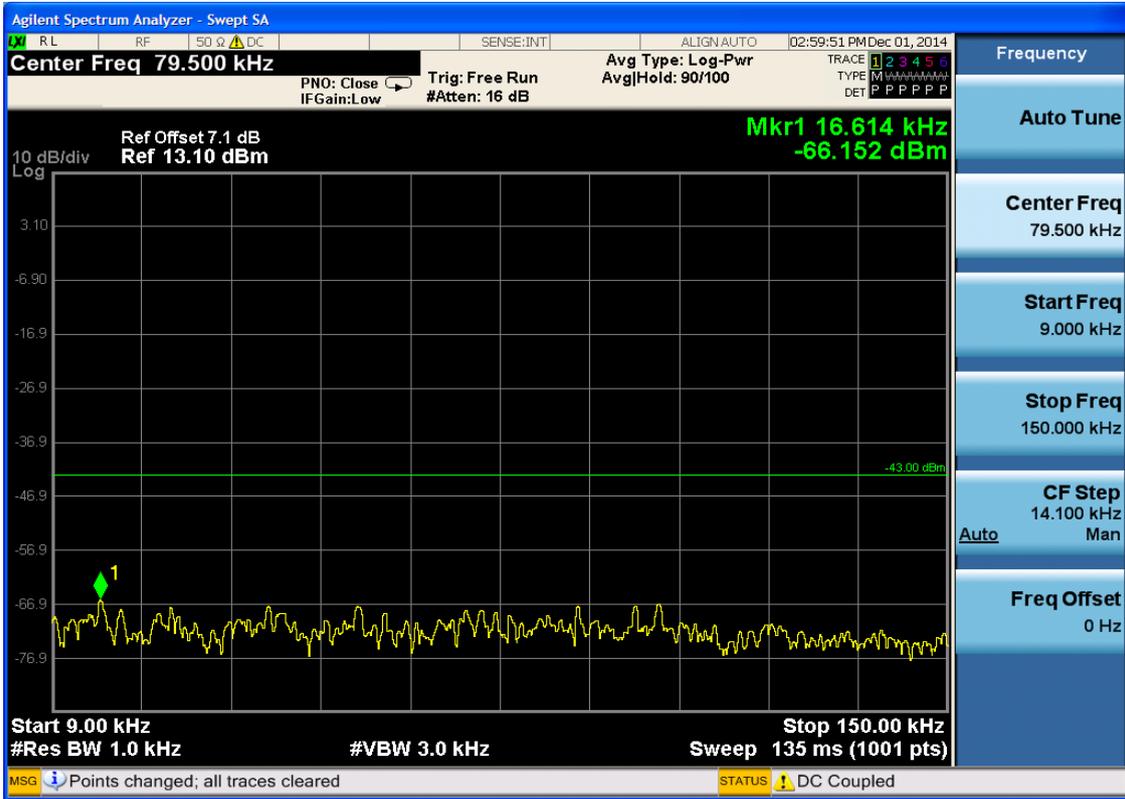


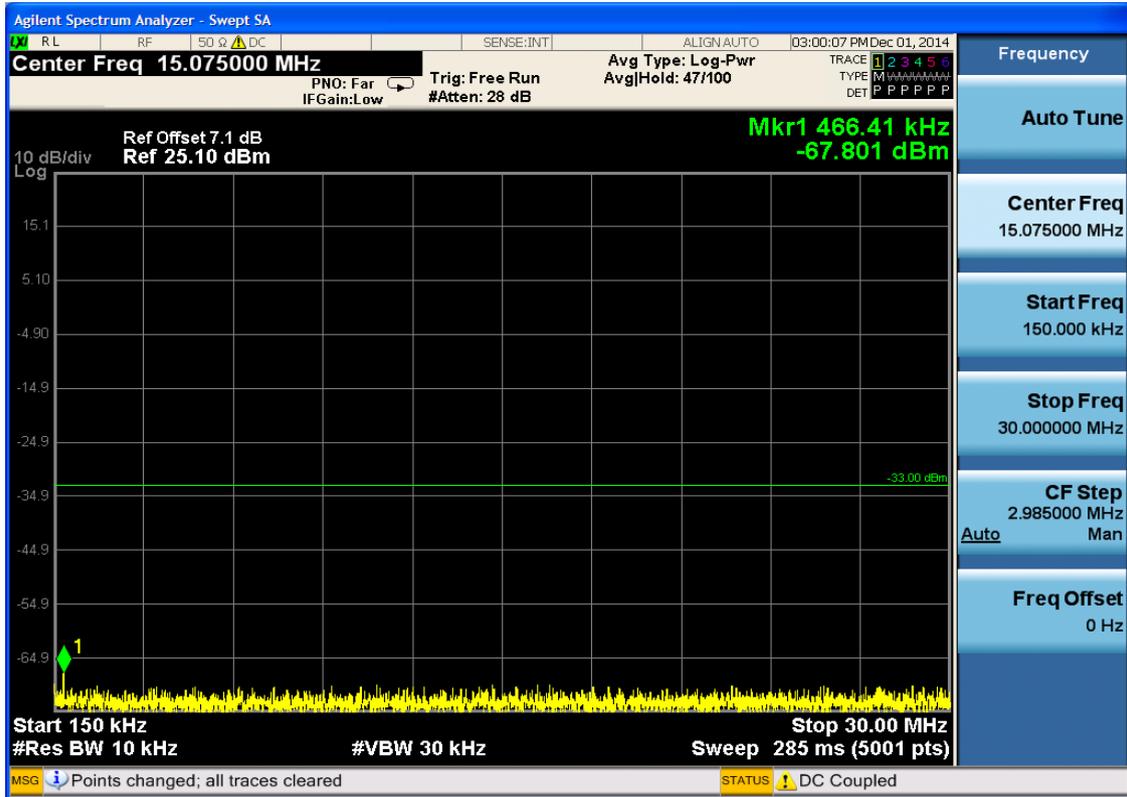


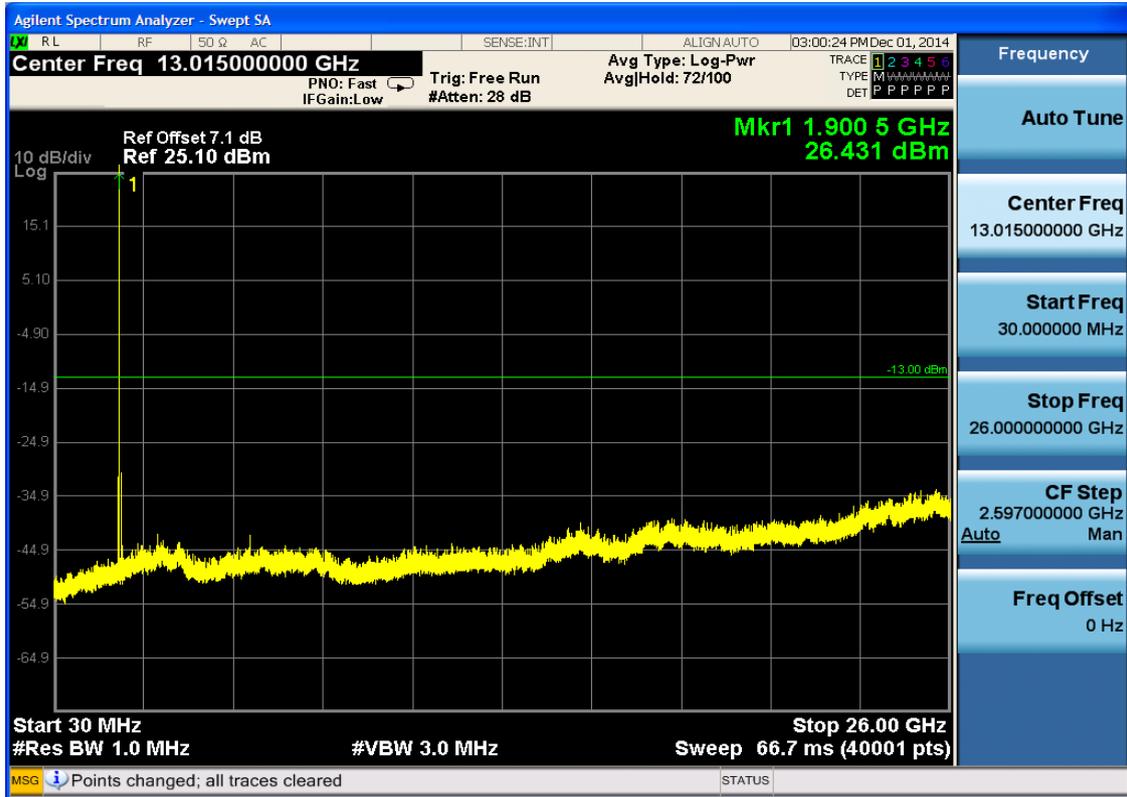


6.1.3.2.4.3 Test Channel = HCH

6.1.3.2.4.3.1 Test RB = RB1#0









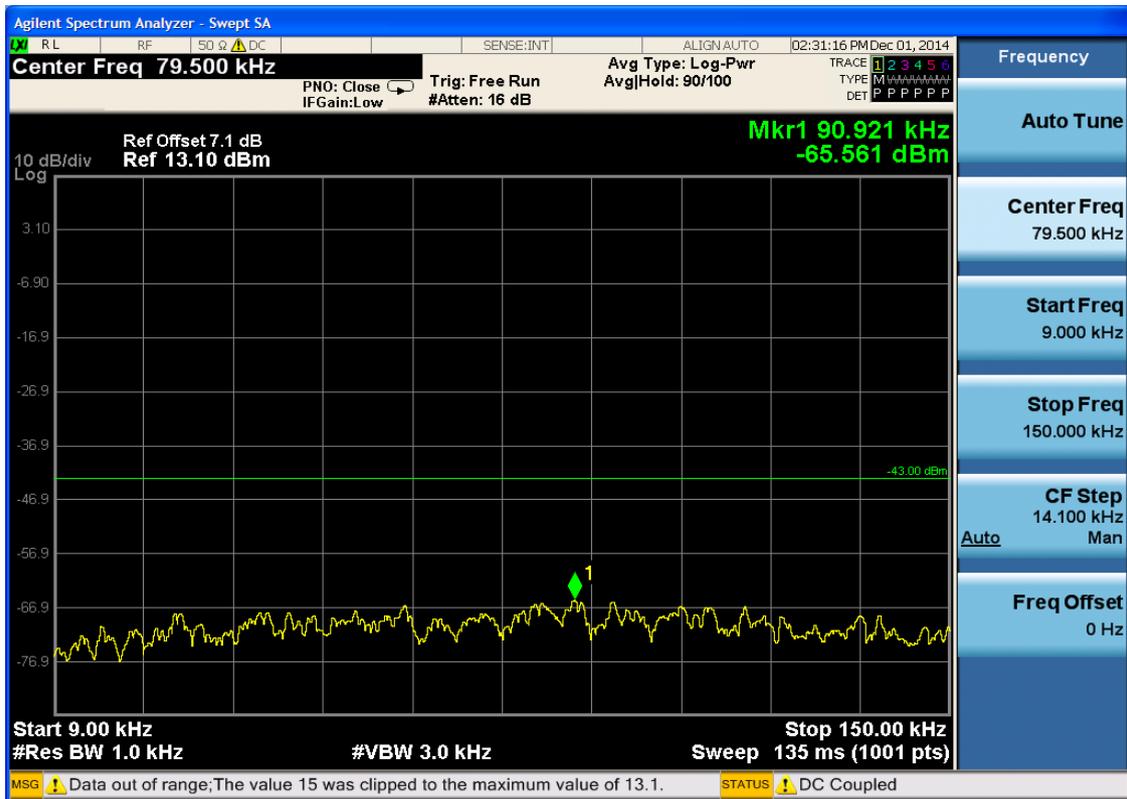
6.1.4 Test Band = BAND12

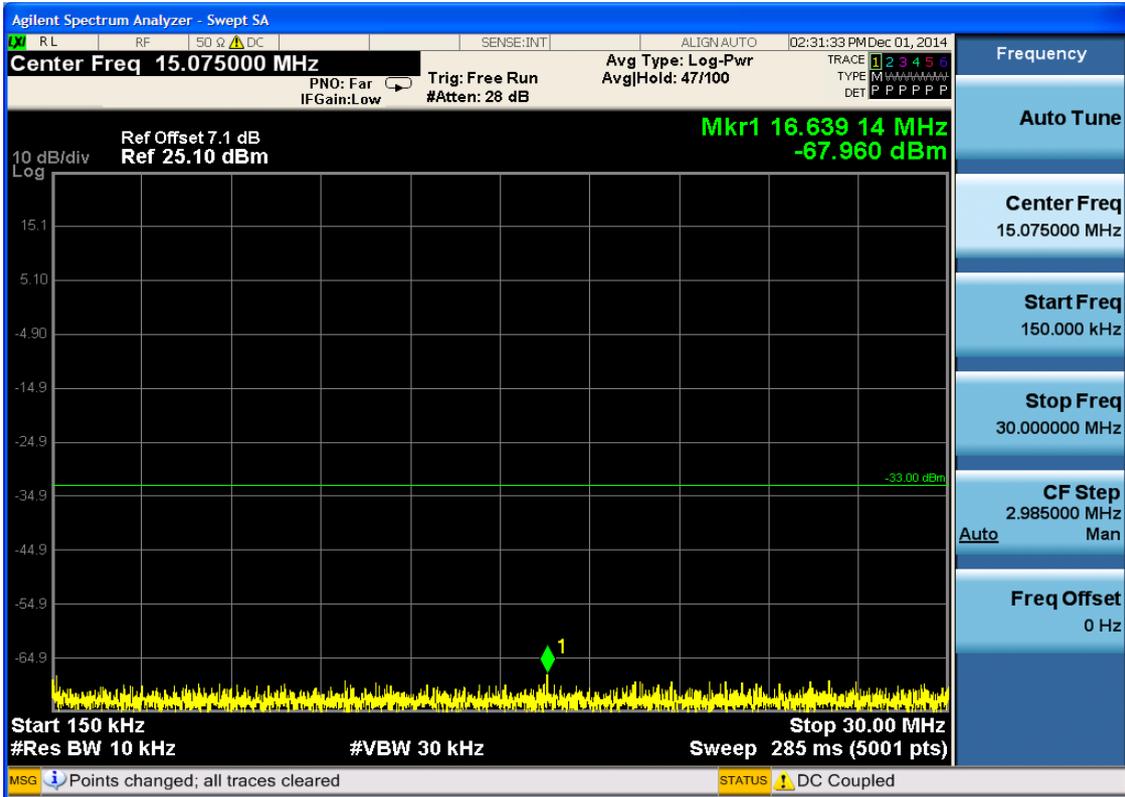
6.1.4.1. Test Mode = LTE/TM1

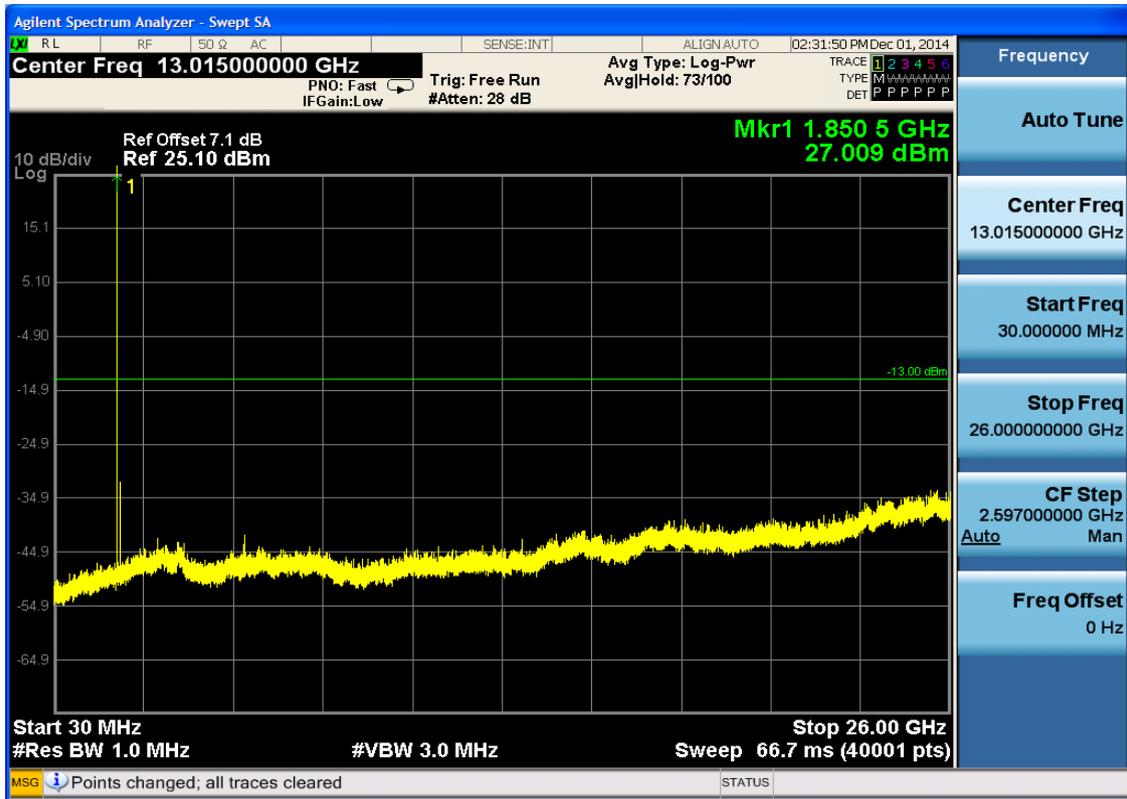
6.1.4.1.1 Test Bandwidth = 1.4

6.1.4.1.1 .1 Test Channel = LCH

6.1.4.1.1 .1.1 Test RB = RB1#0



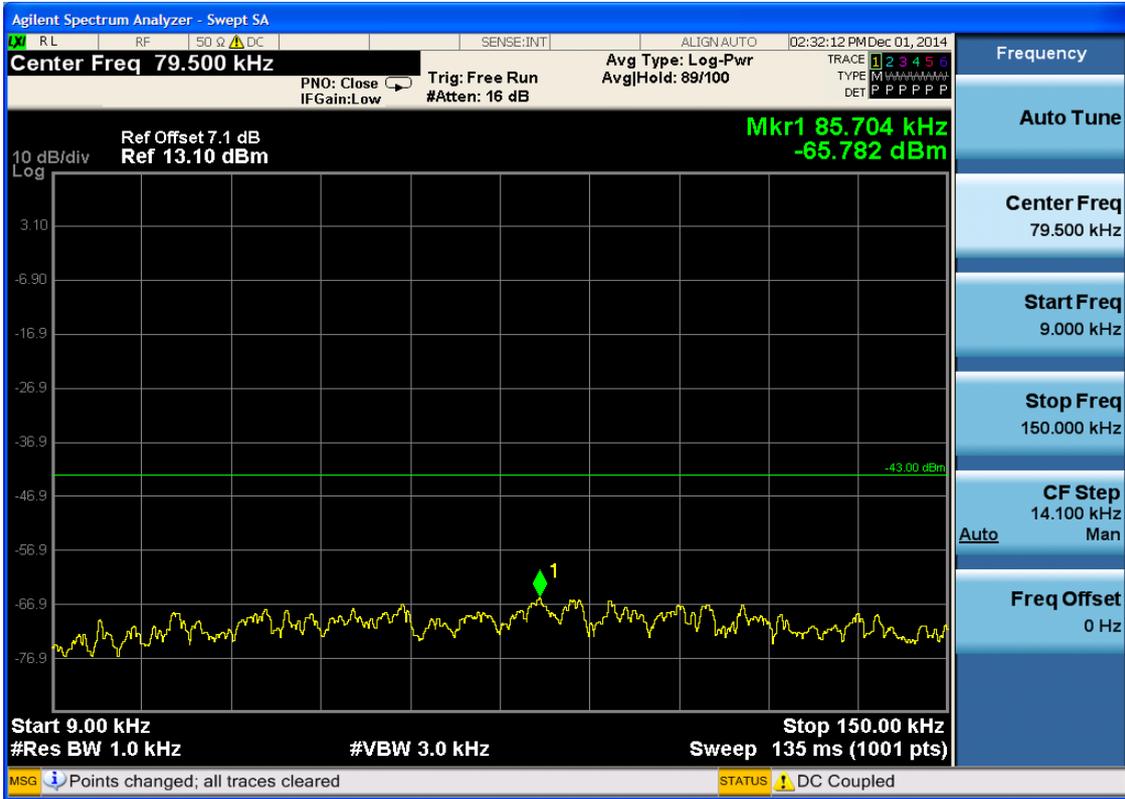


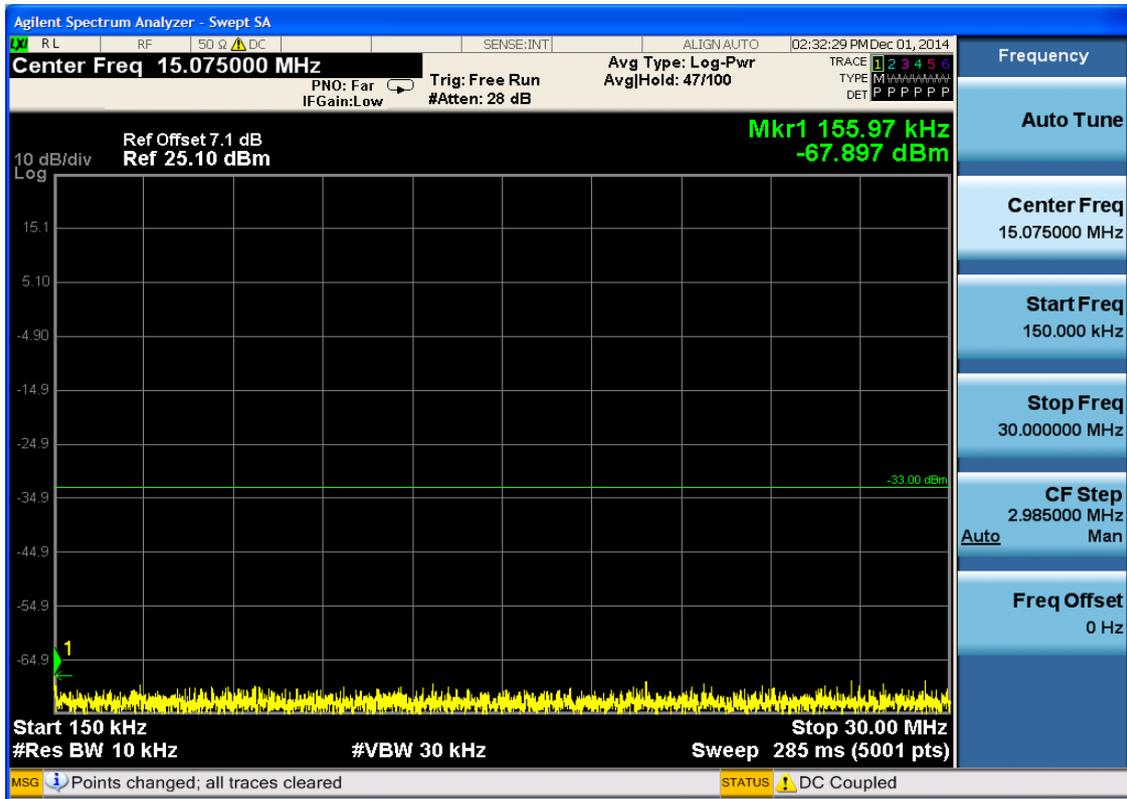


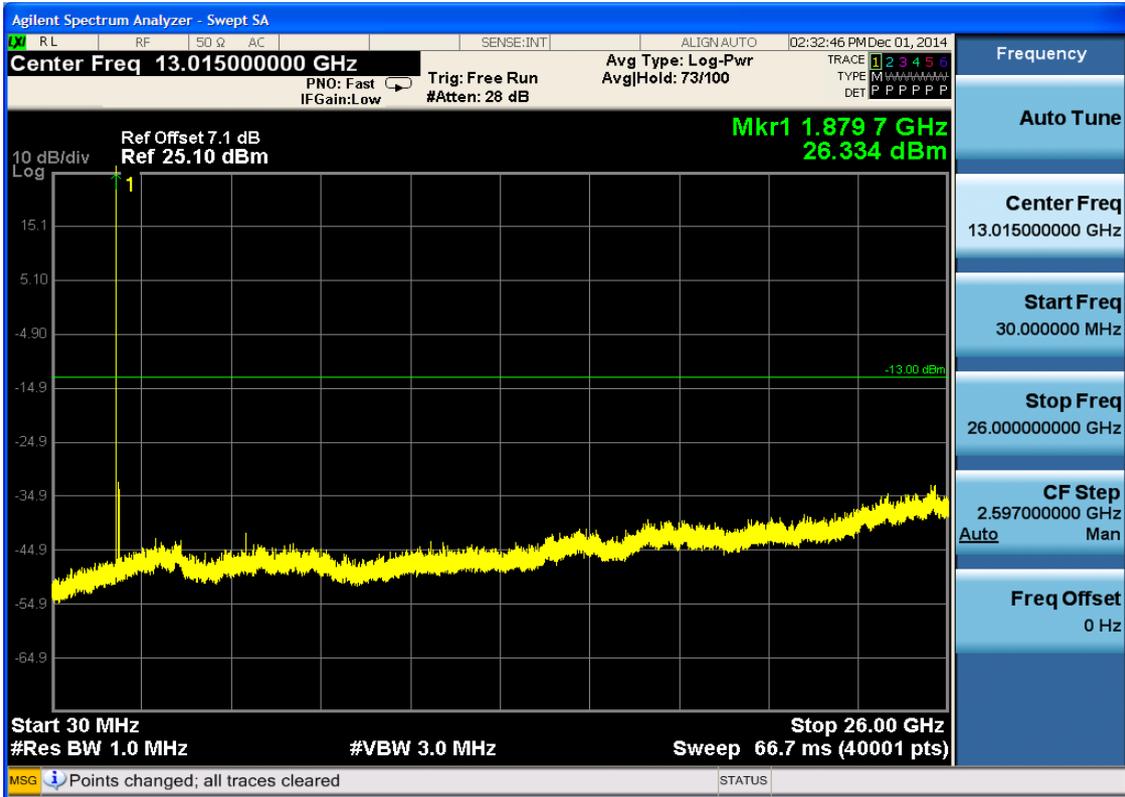


6.1.4.1.1.2 Test Channel = MCH

6.1.4.1.1.2.1 Test RB = RB1#0



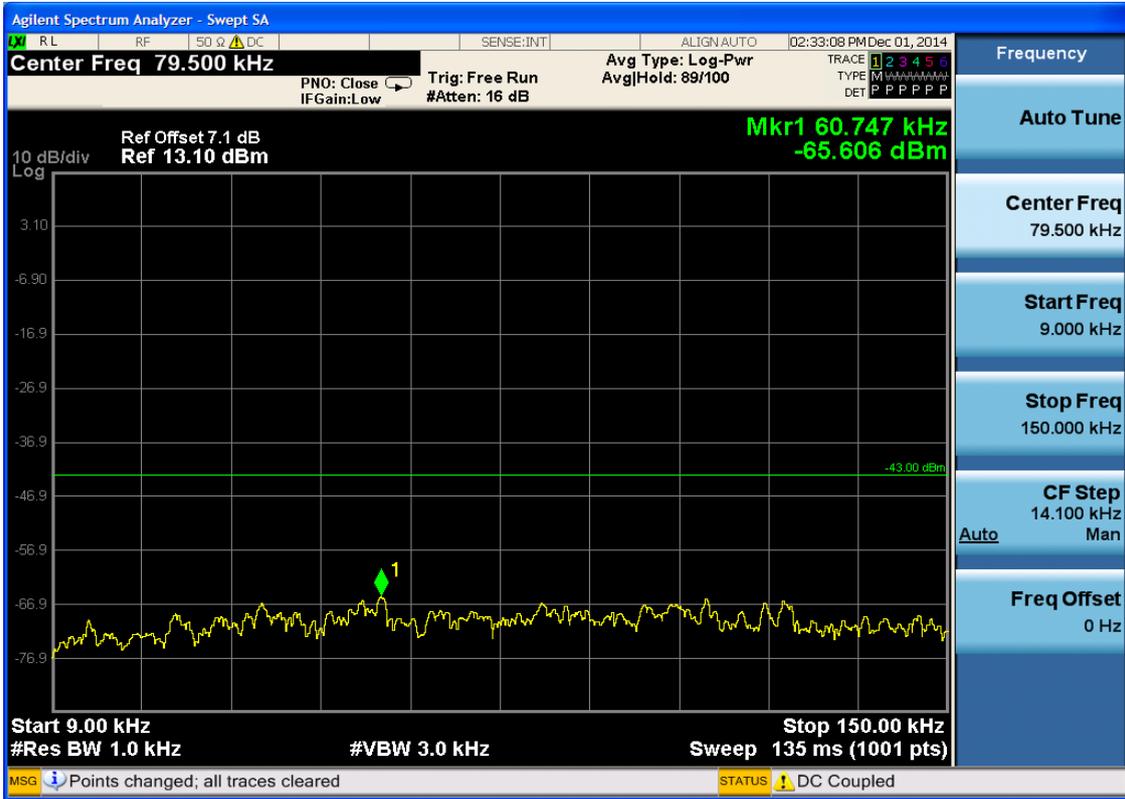


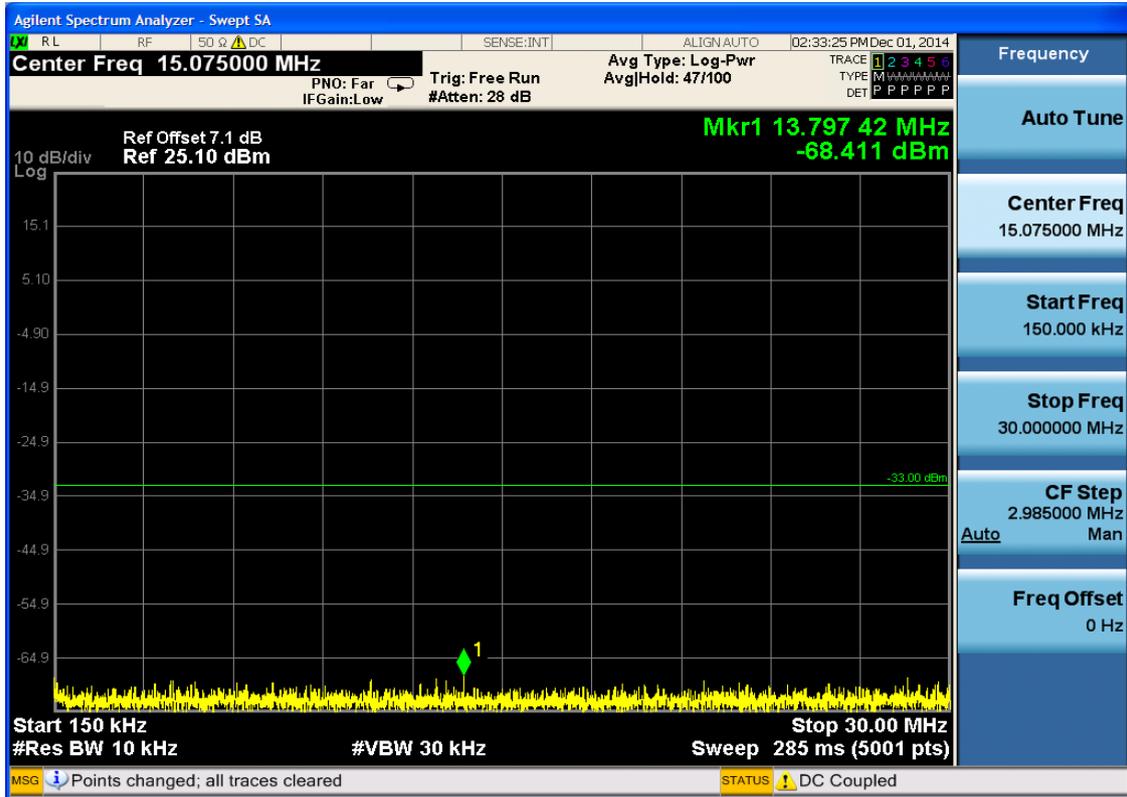


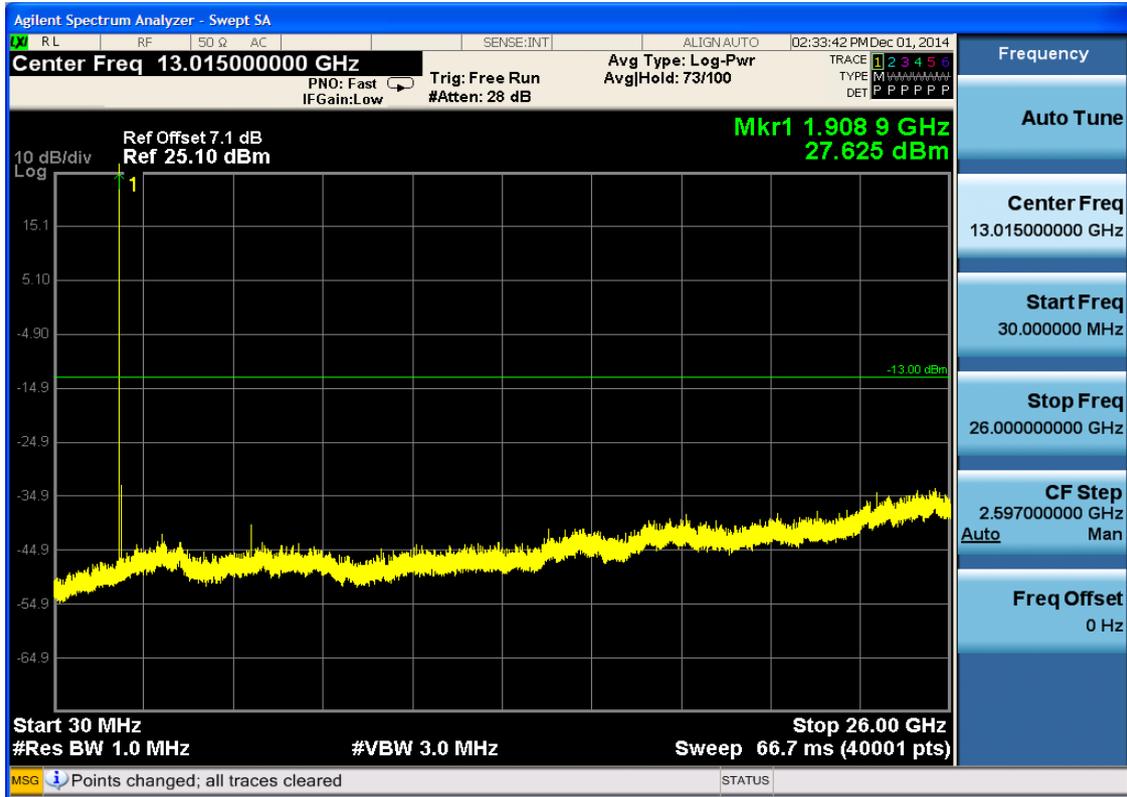


6.1.4.1.1 .3 Test Channel = HCH

6.1.4.1.1 .3.1 Test RB = RB1#0





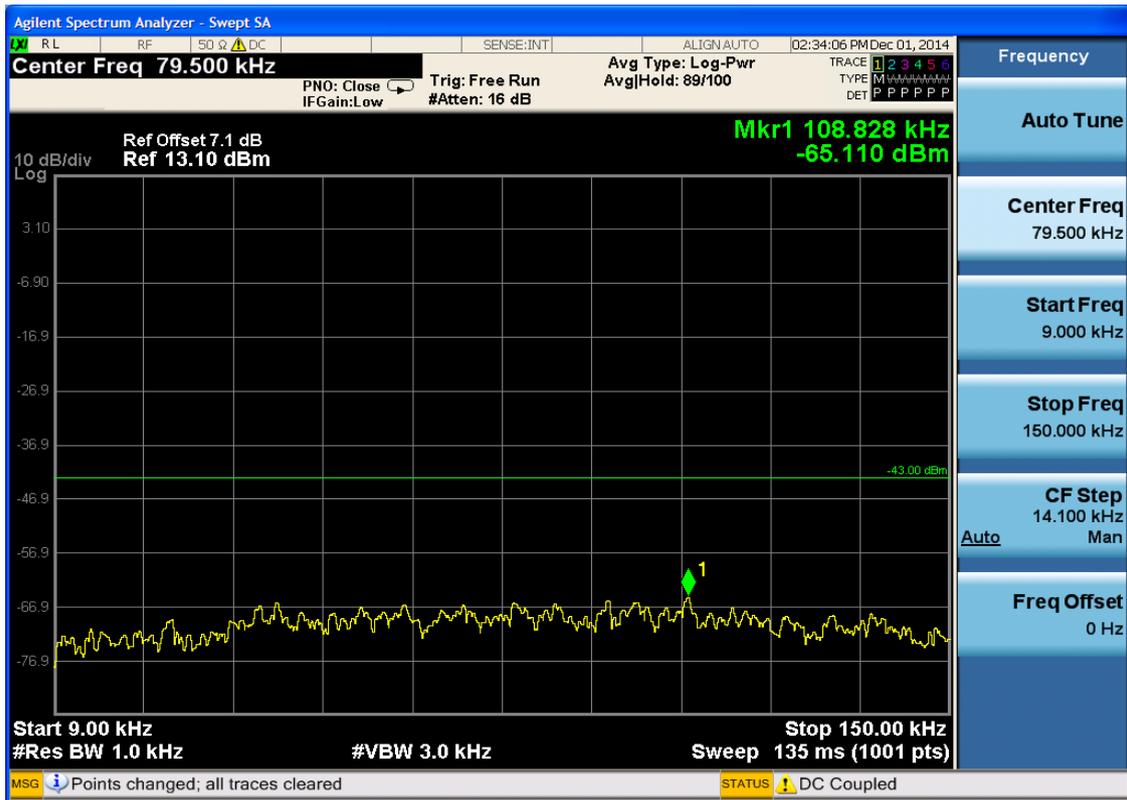


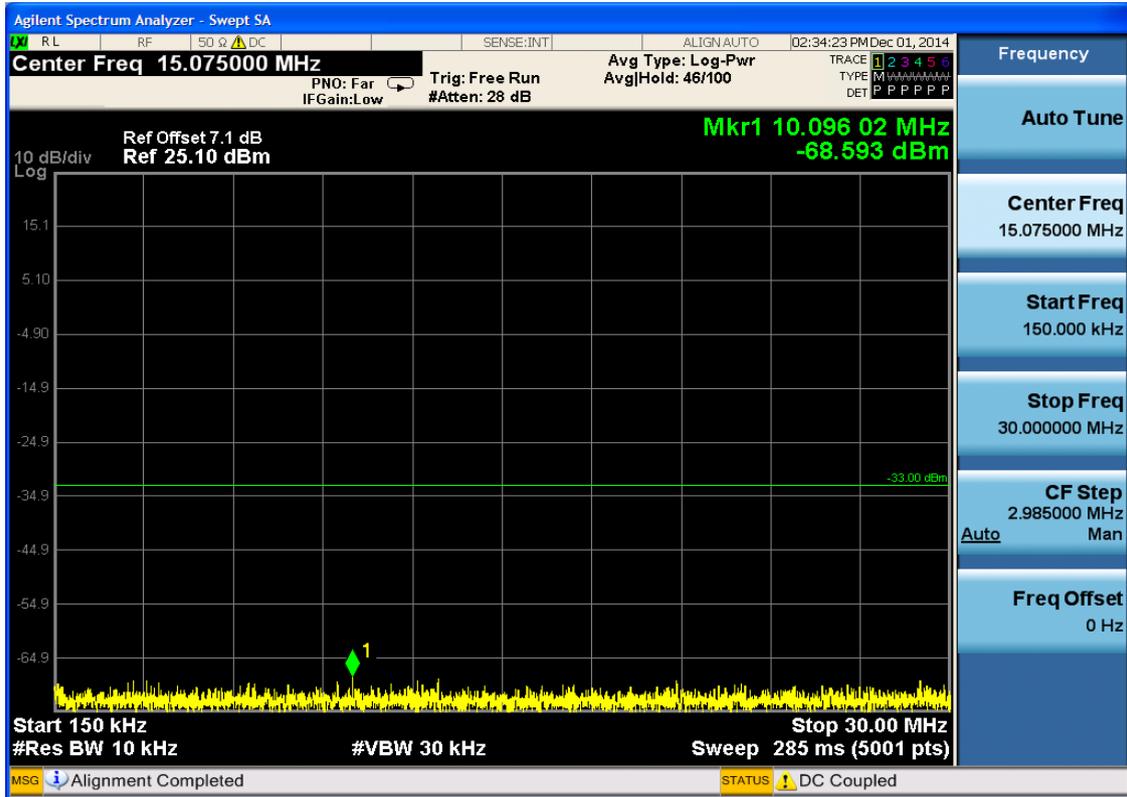


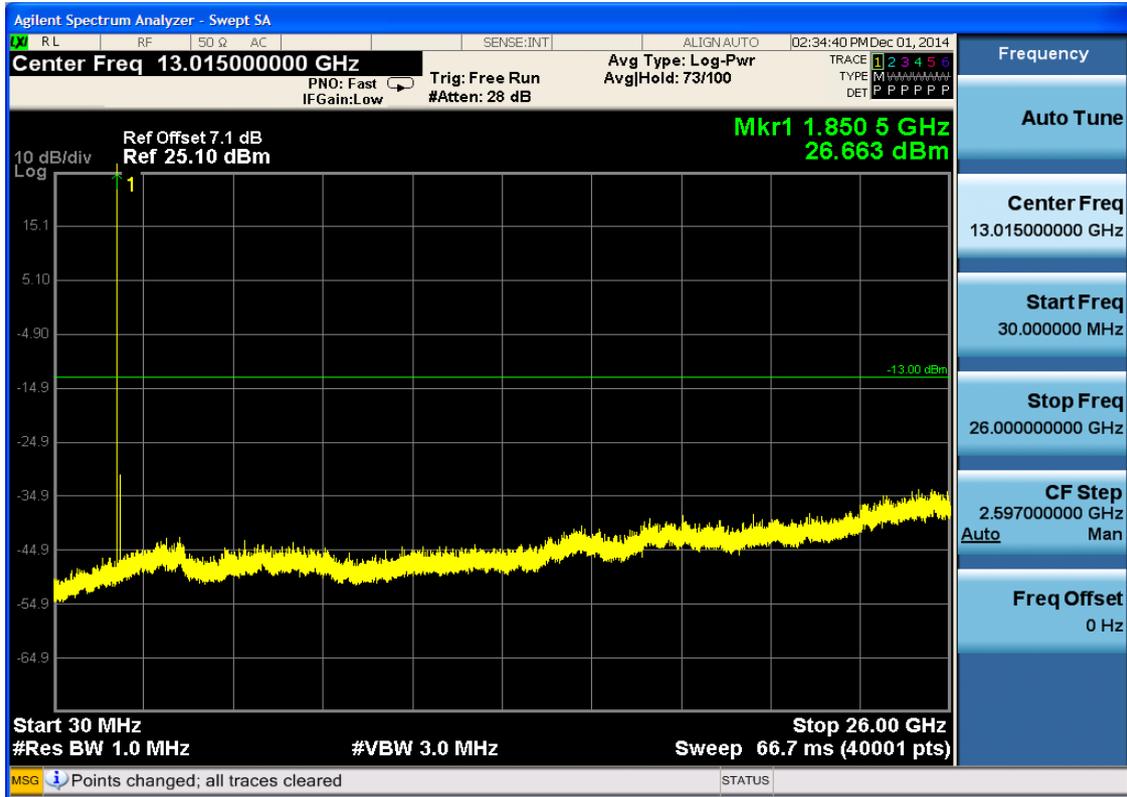
6.1.4.1.2 Test Bandwidth = 3

6.1.4.1.2.1 Test Channel = LCH

6.1.4.1.2.1.1 Test RB = RB1#0



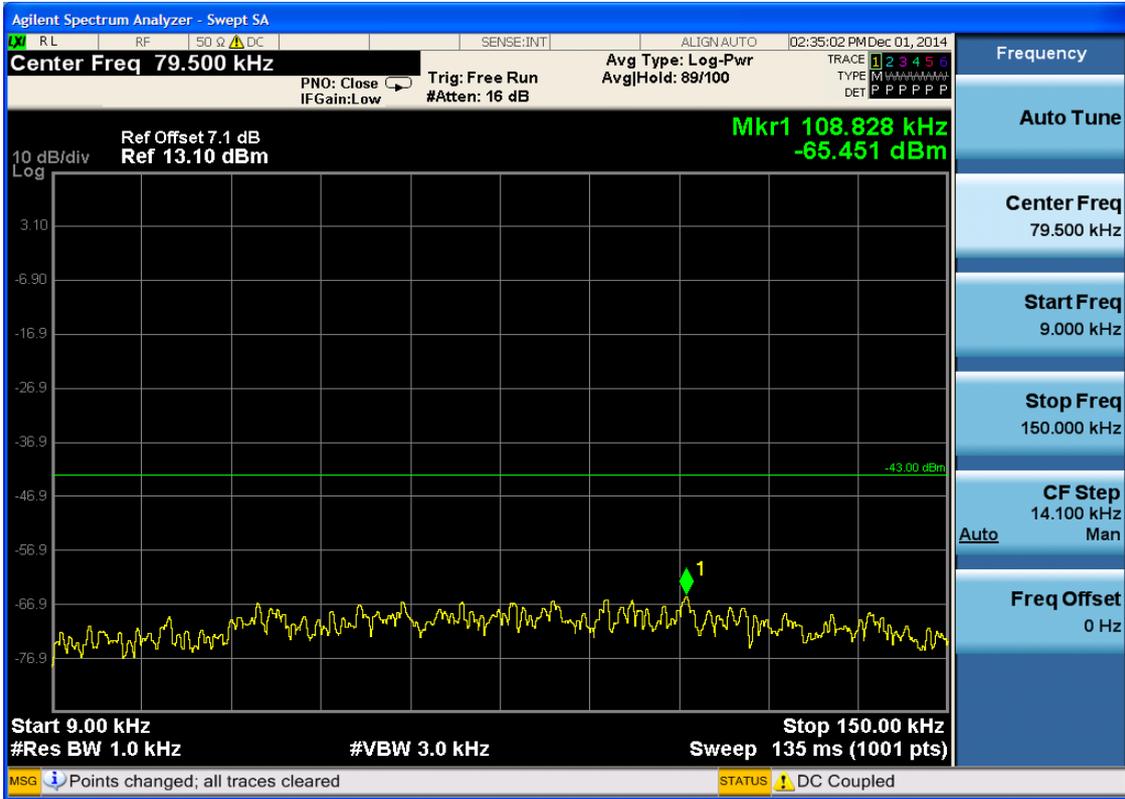


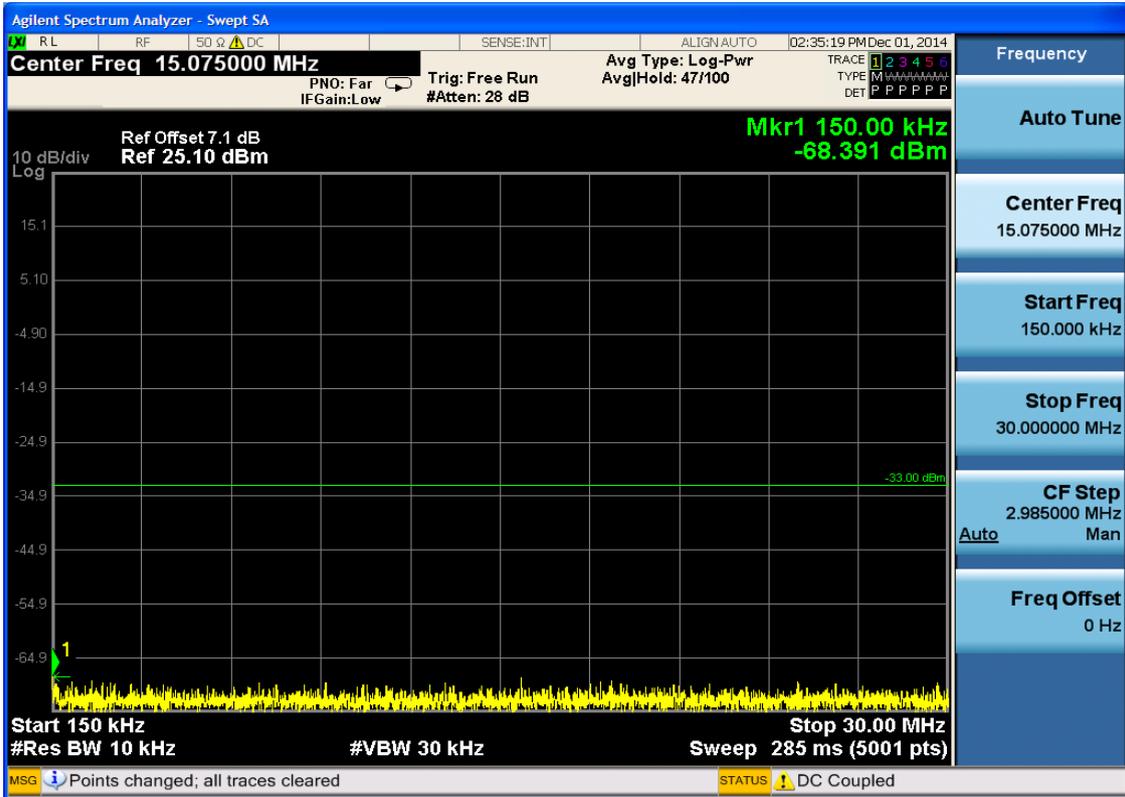


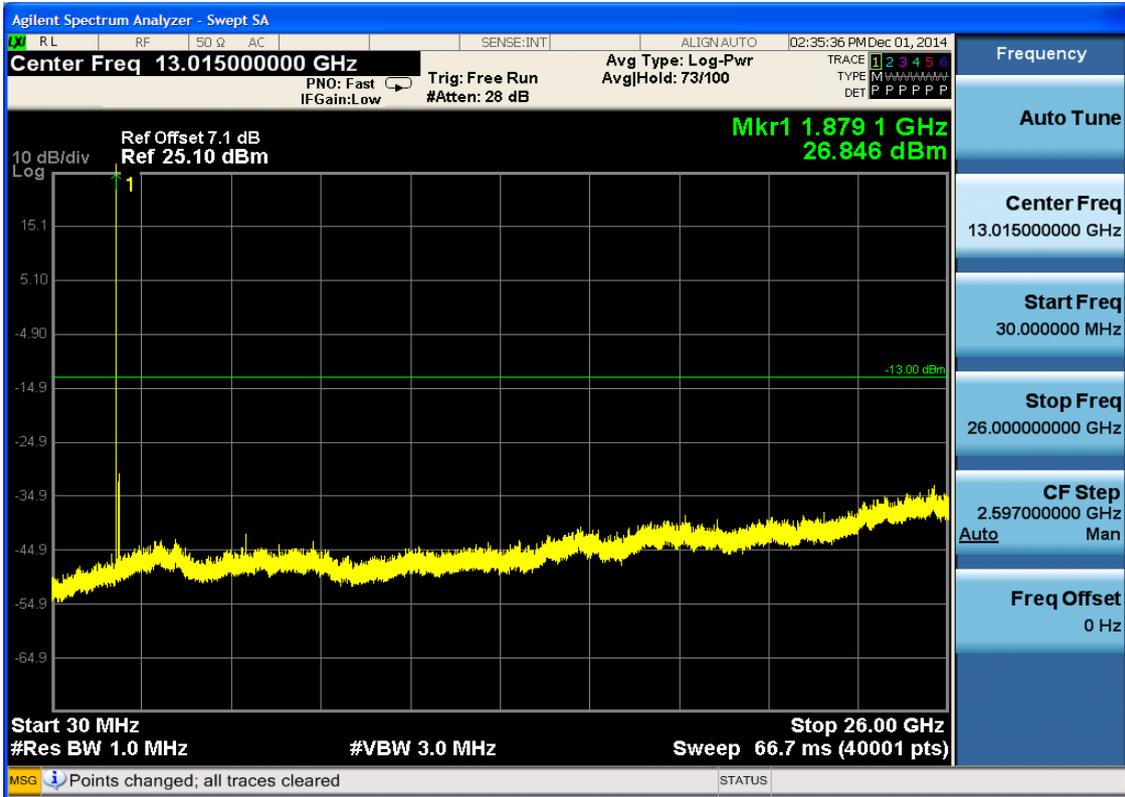


6.1.4.1.2.2 Test Channel = MCH

6.1.4.1.2.2.1 Test RB = RB1#0



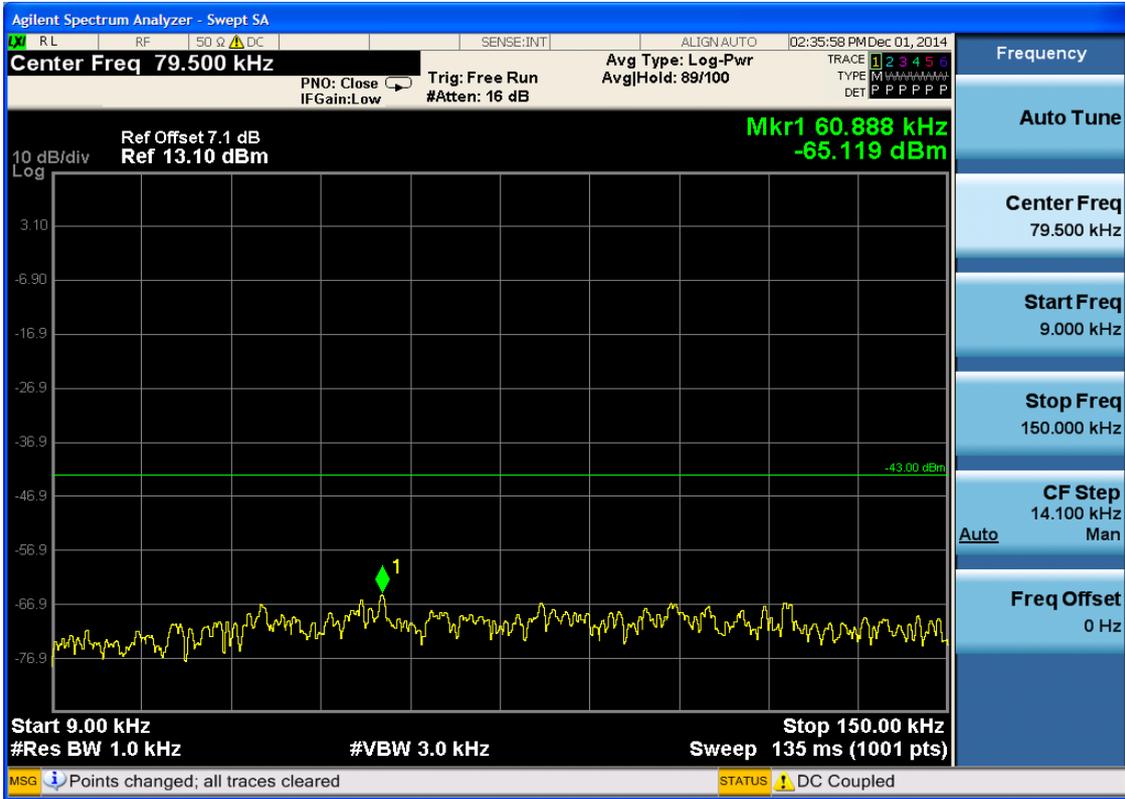


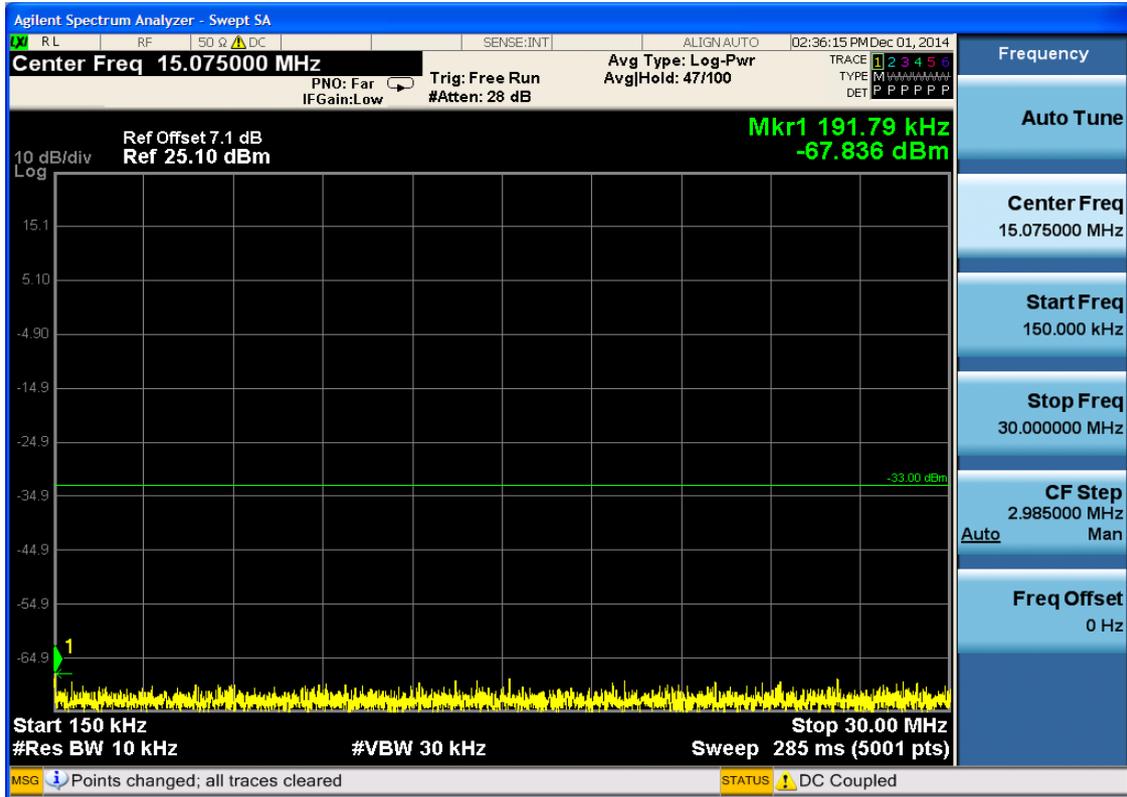


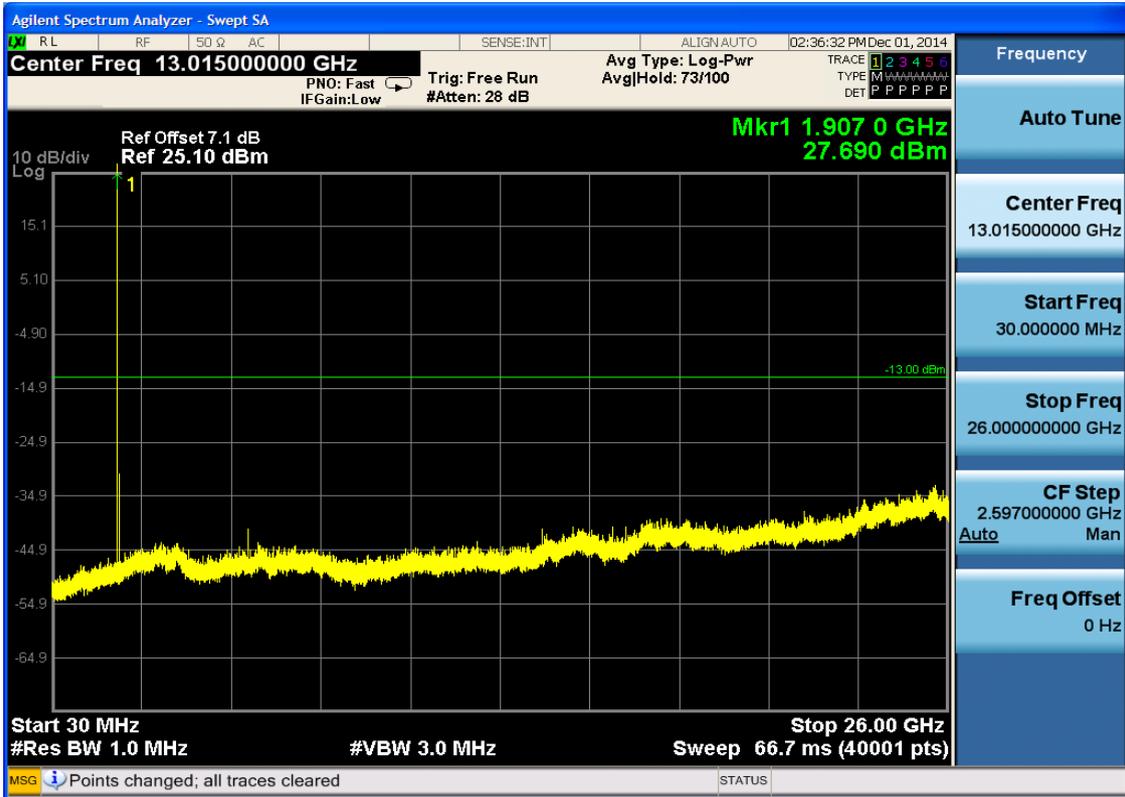


6.1.4.1.2.3 Test Channel = HCH

6.1.4.1.2.3.1 Test RB = RB1#0





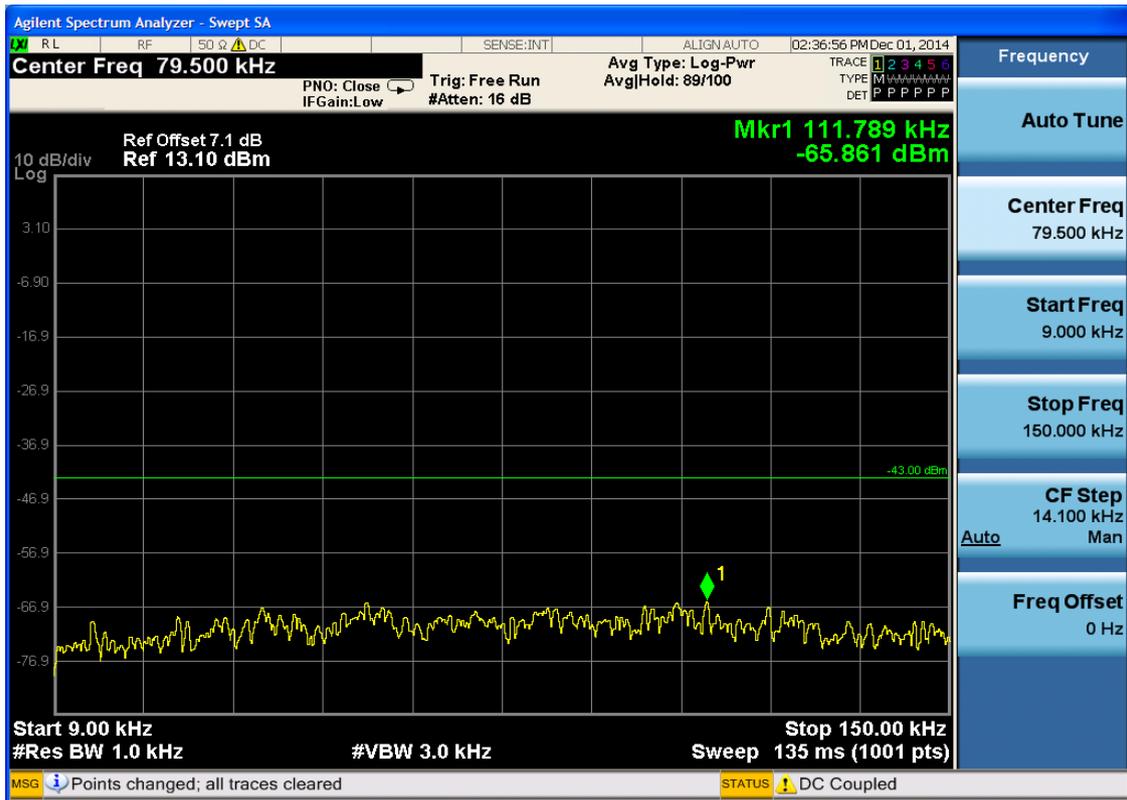




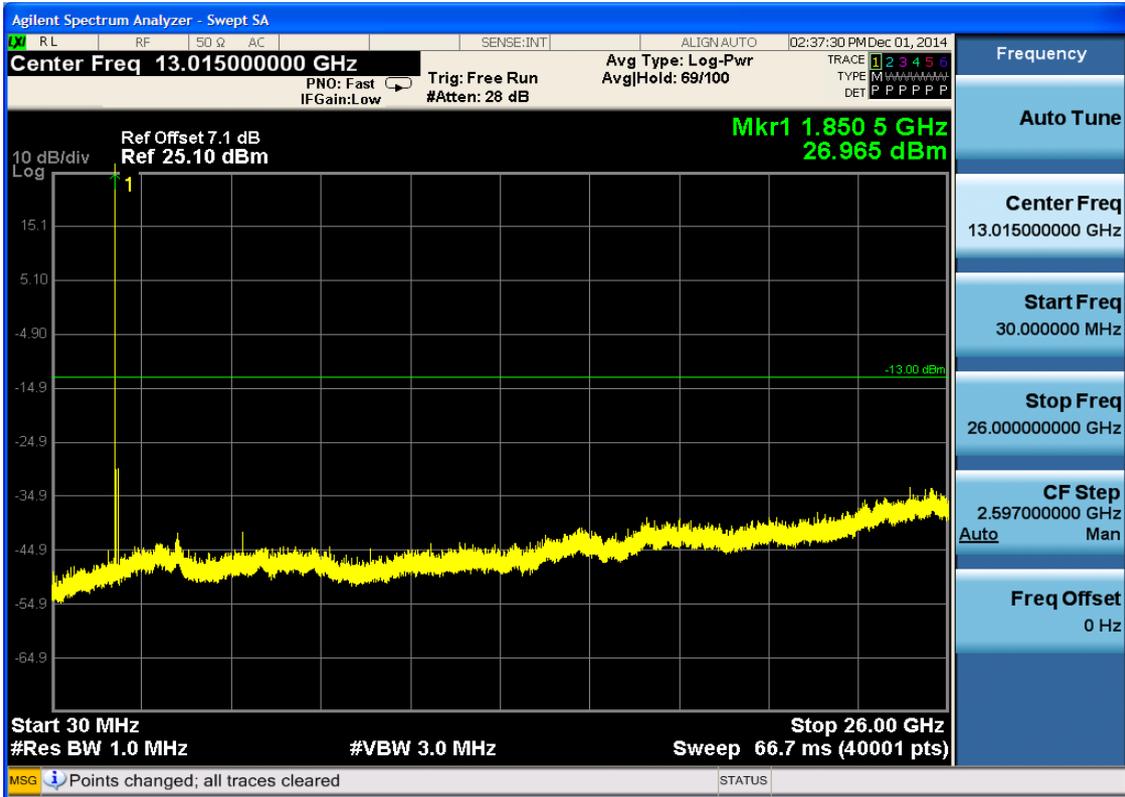
6.1.4.1.3 Test Bandwidth = 5

6.1.4.1.2.1 Test Channel = LCH

6.1.4.1.2.1.1 Test RB = RB1#0



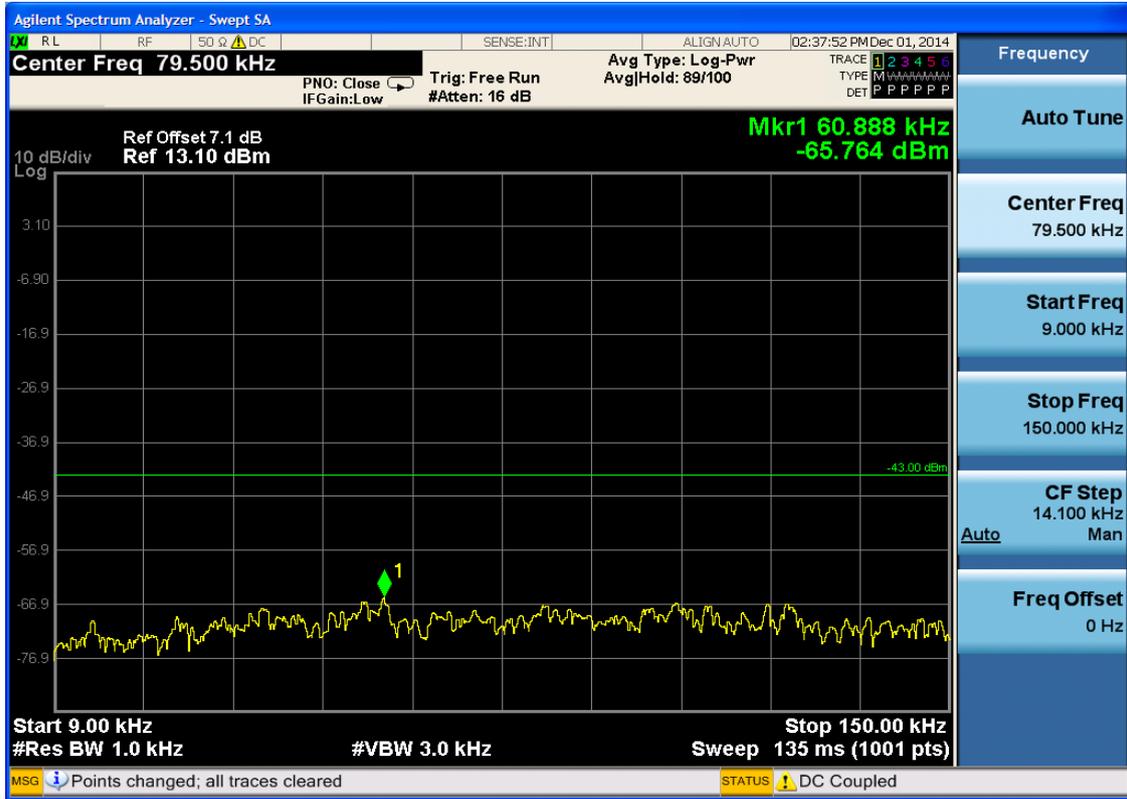






6.1.4.1.2.2 Test Channel = MCH

6.1.4.1.2.2.1 Test RB = RB1#0



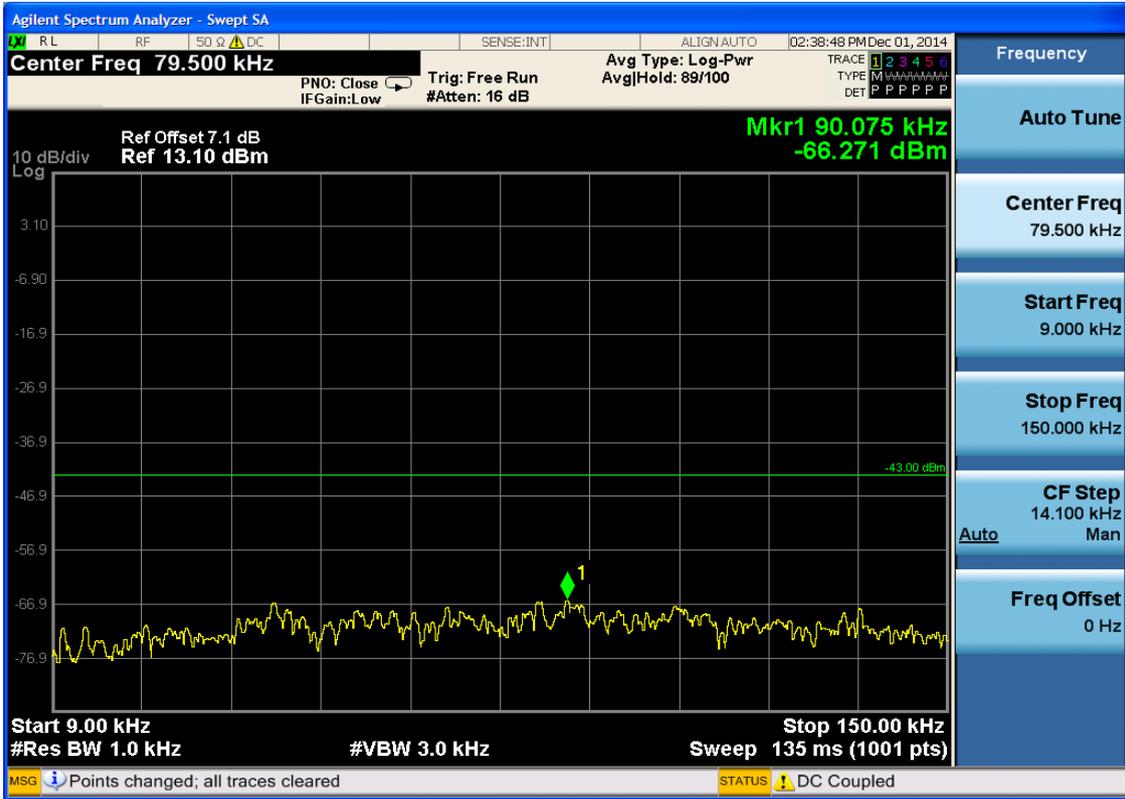


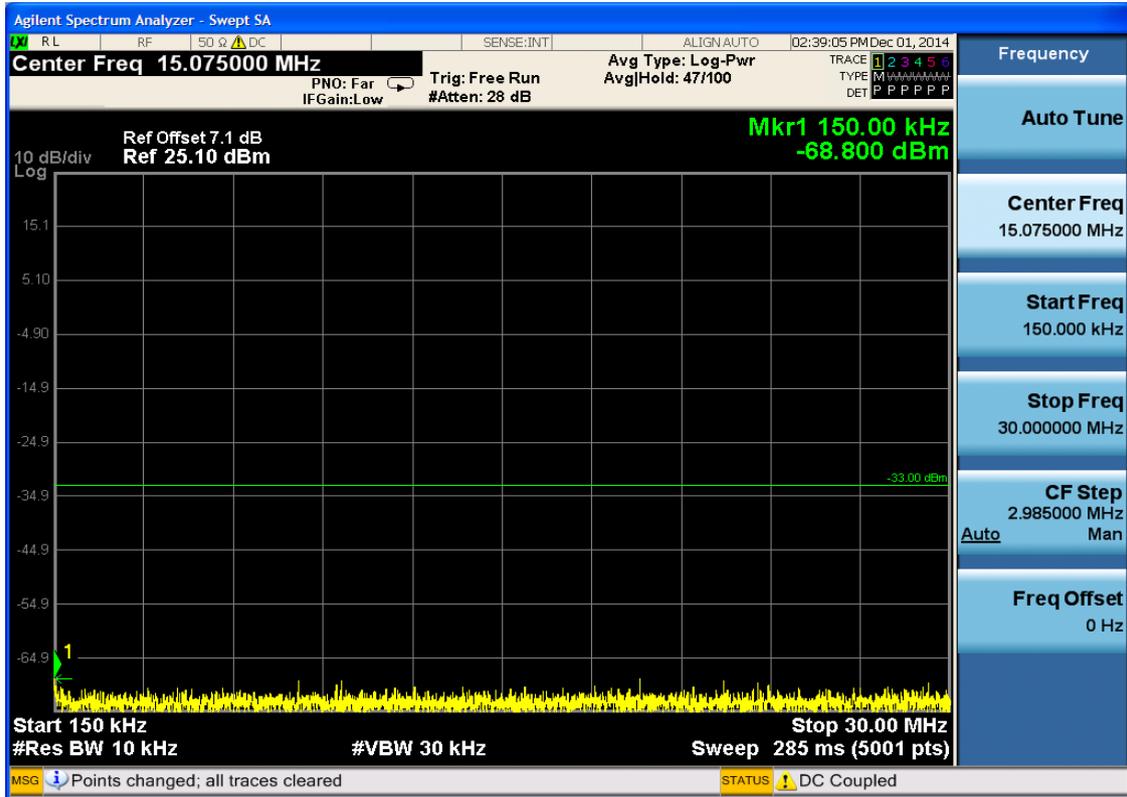


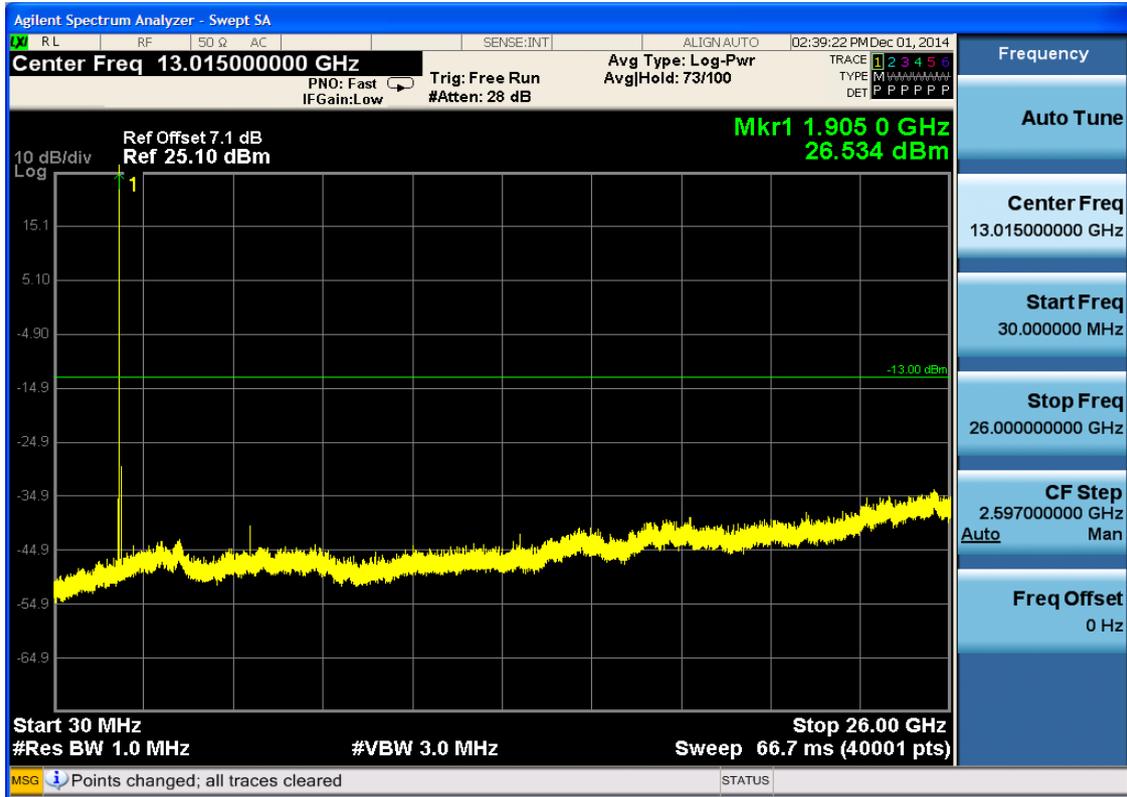


6.1.4.1.2.3 Test Channel = HCH

6.1.4.1.2.3.1 Test RB = RB1#0





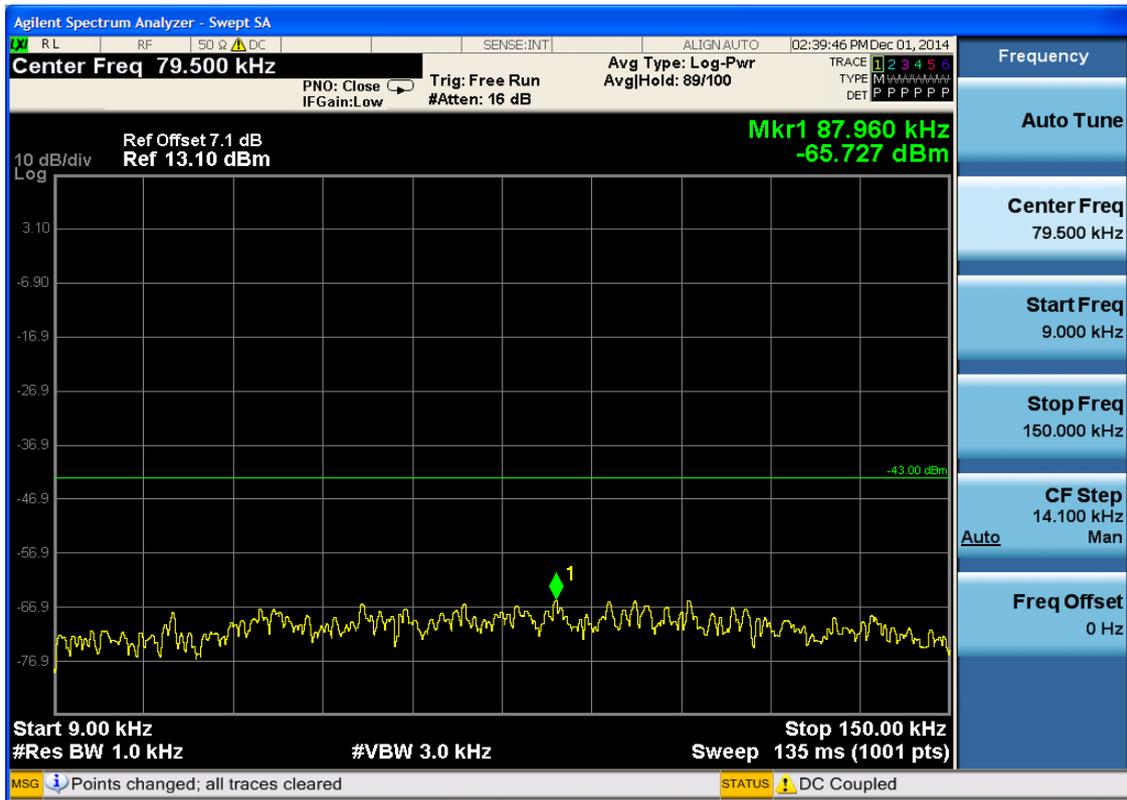


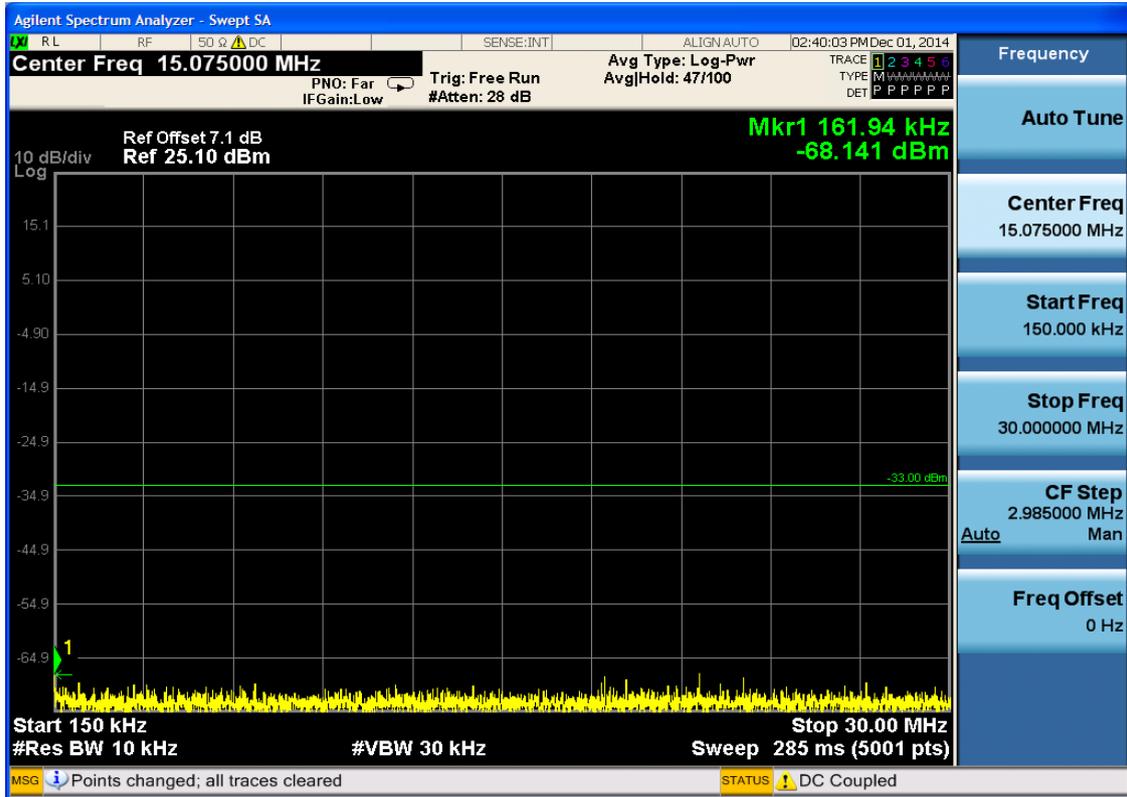


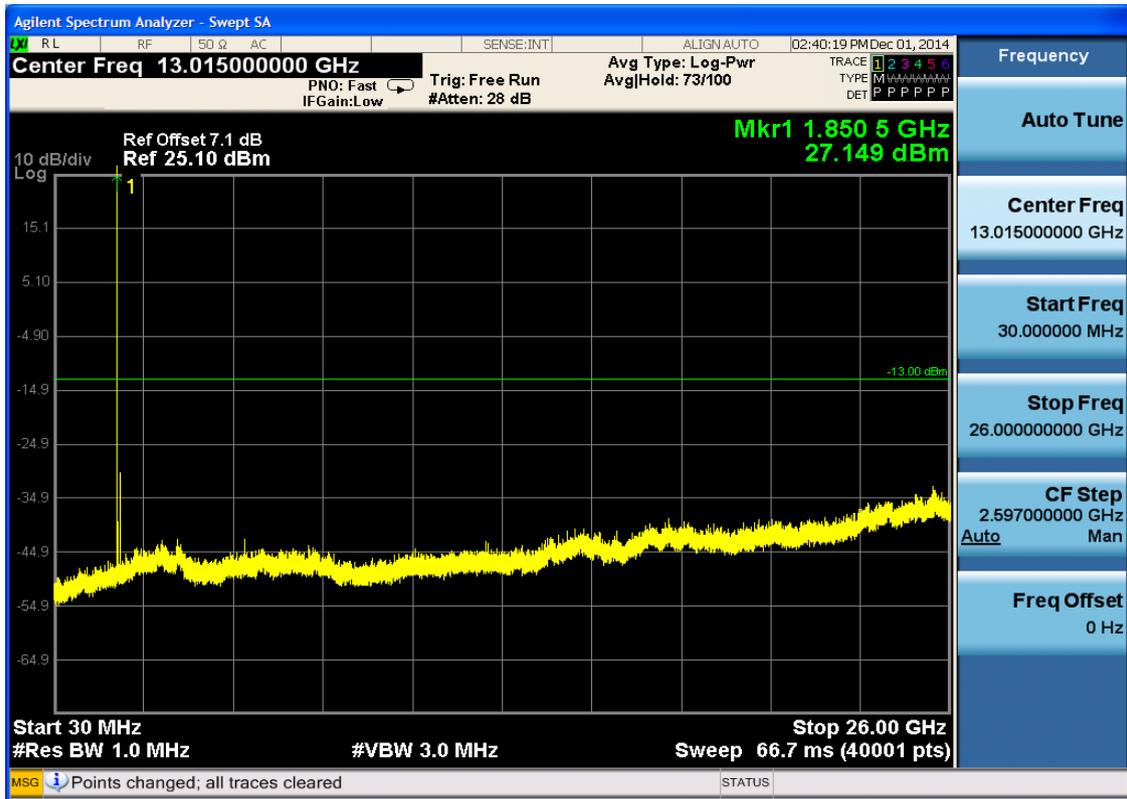
6.1.4.1.4 Test Bandwidth = 10

6.1.4.1.4.1 Test Channel = LCH

6.1.4.1.4.1.1 Test RB = RB1#0



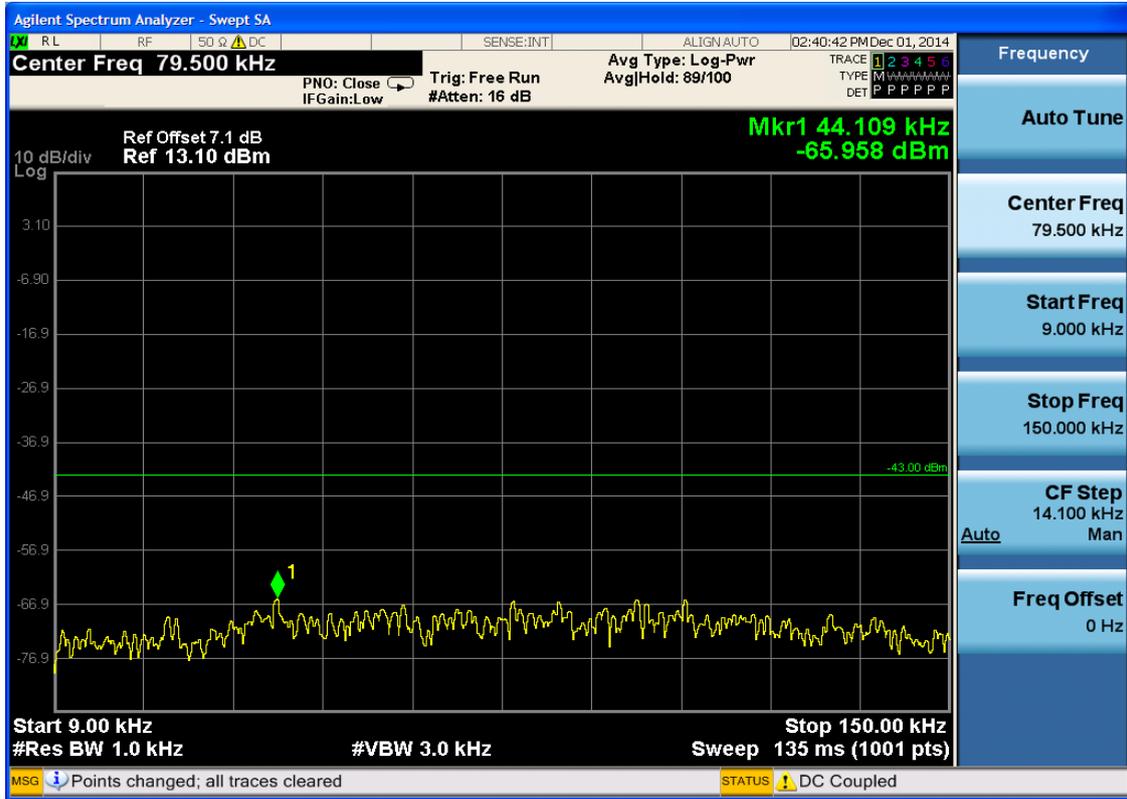


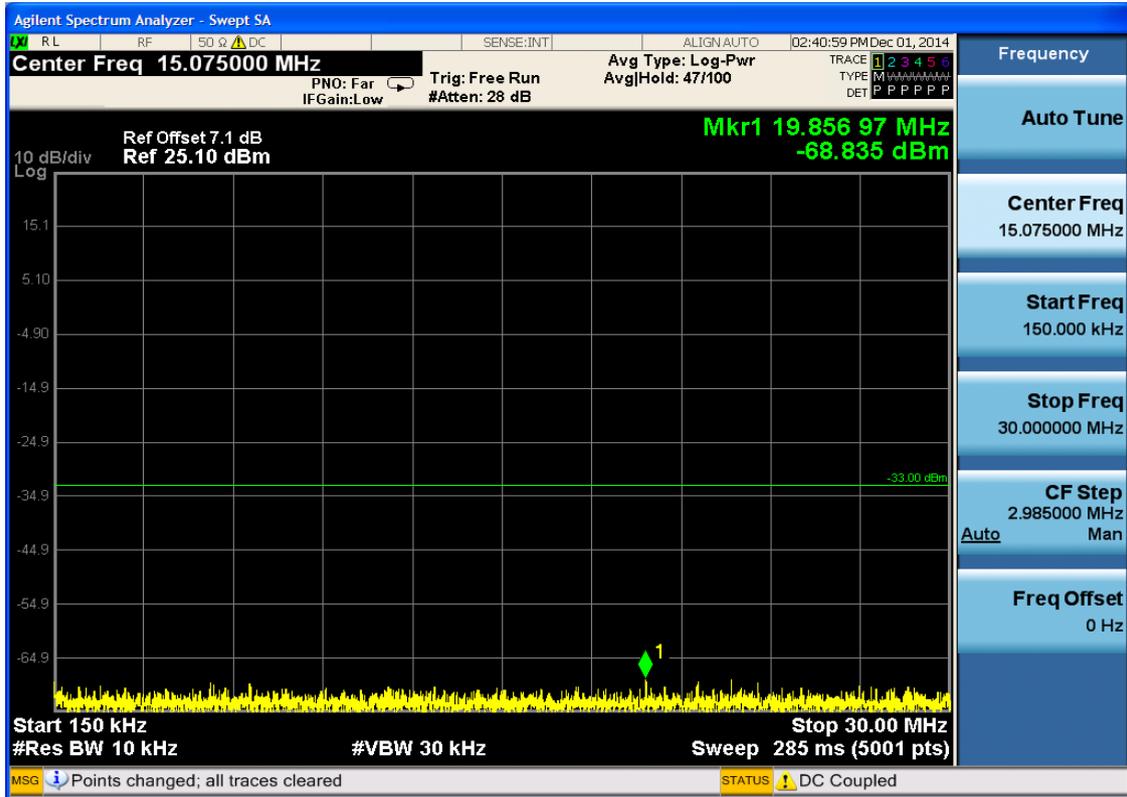


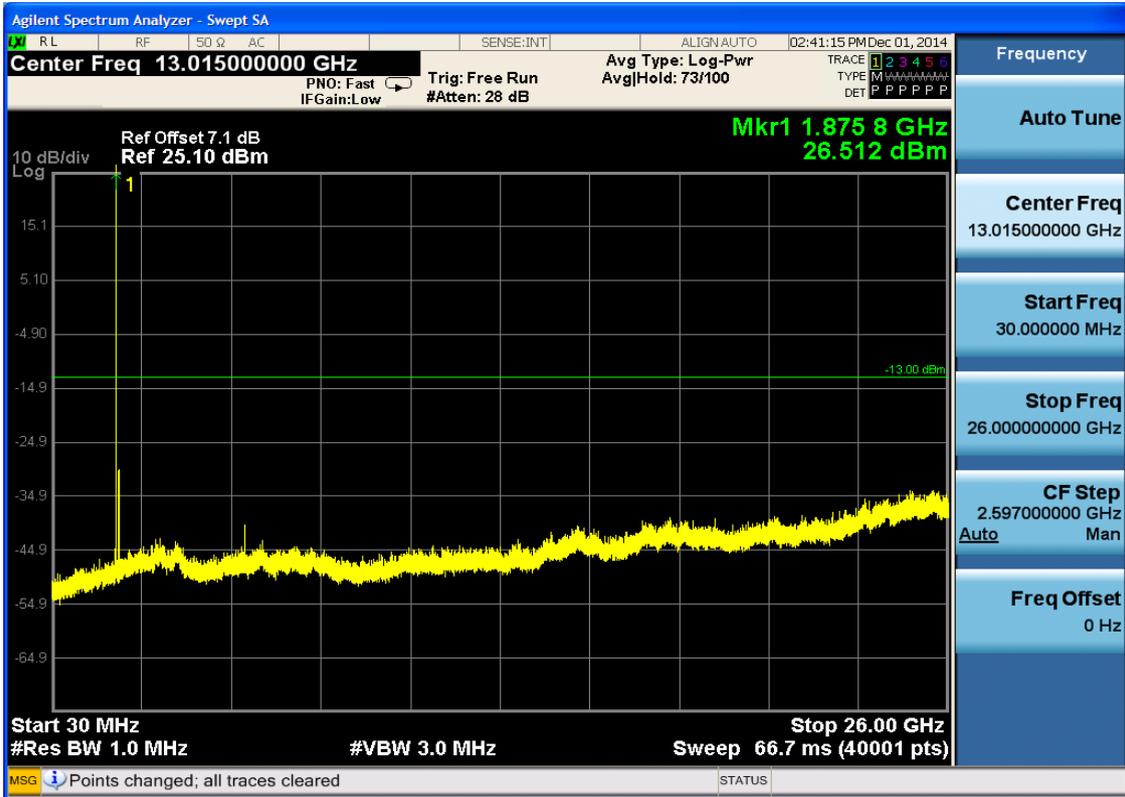


6.1.4.1.4.2 Test Channel = MCH

6.1.4.1.4.2.1 Test RB = RB1#0



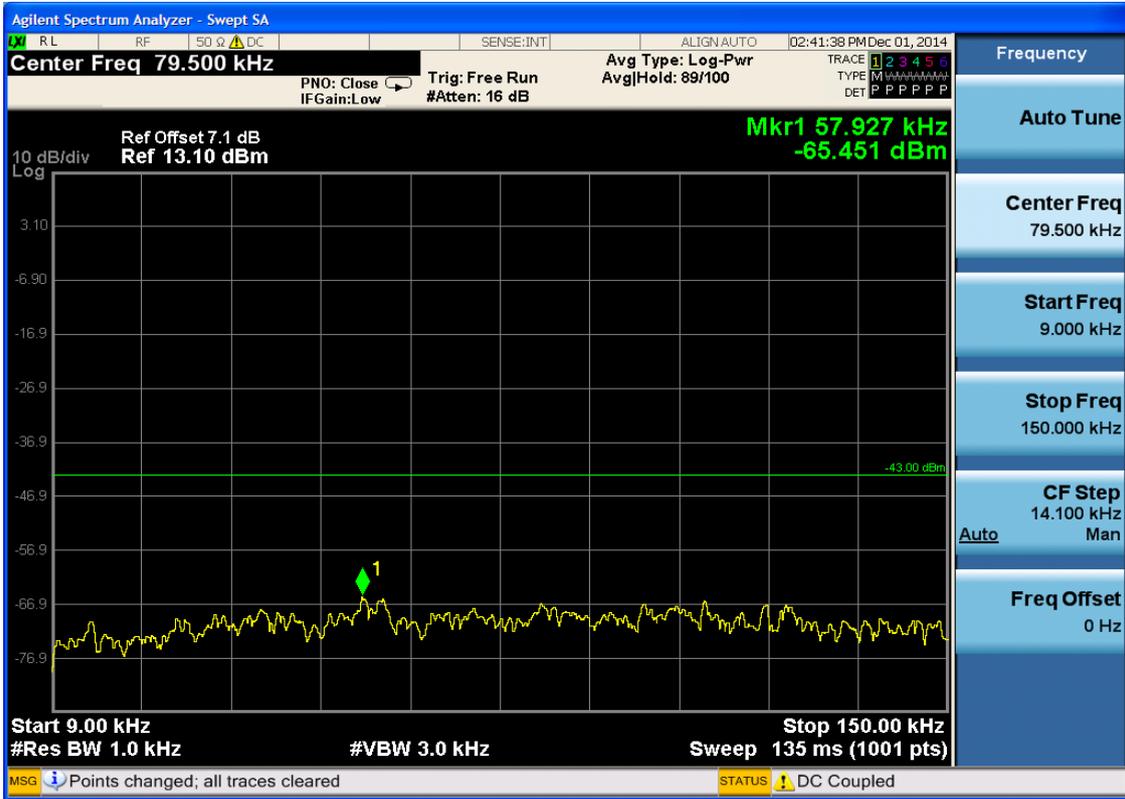


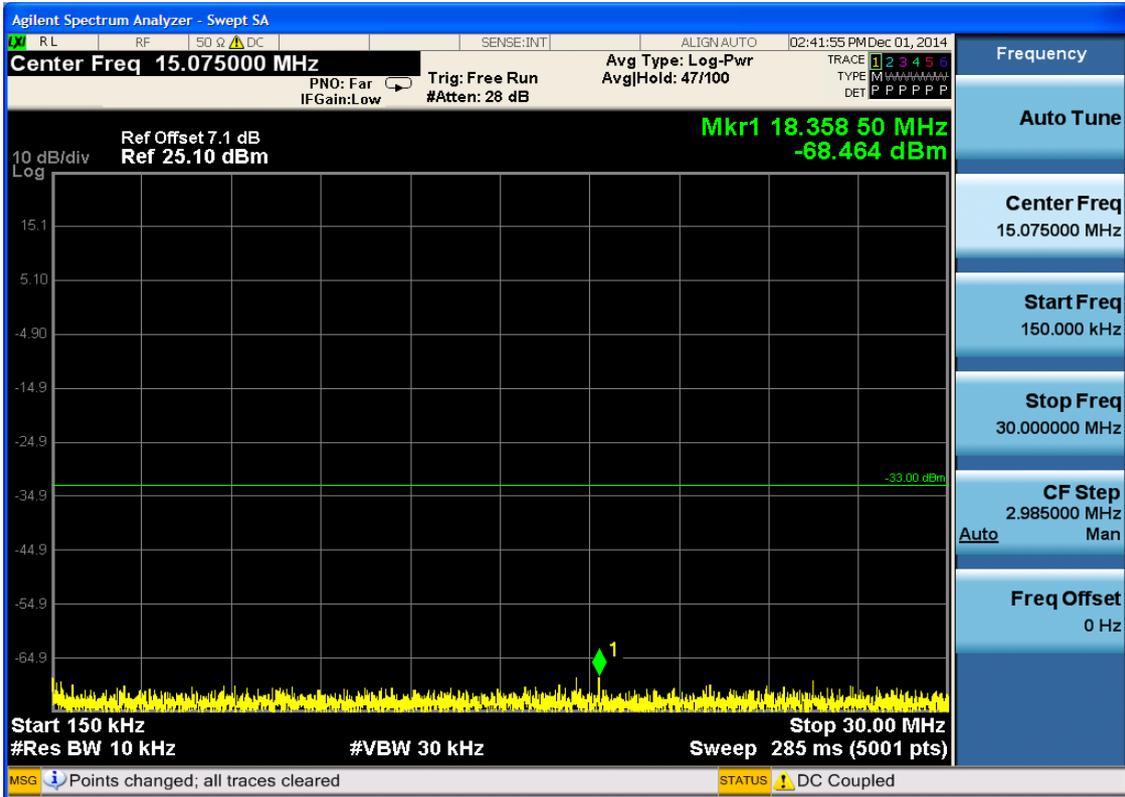


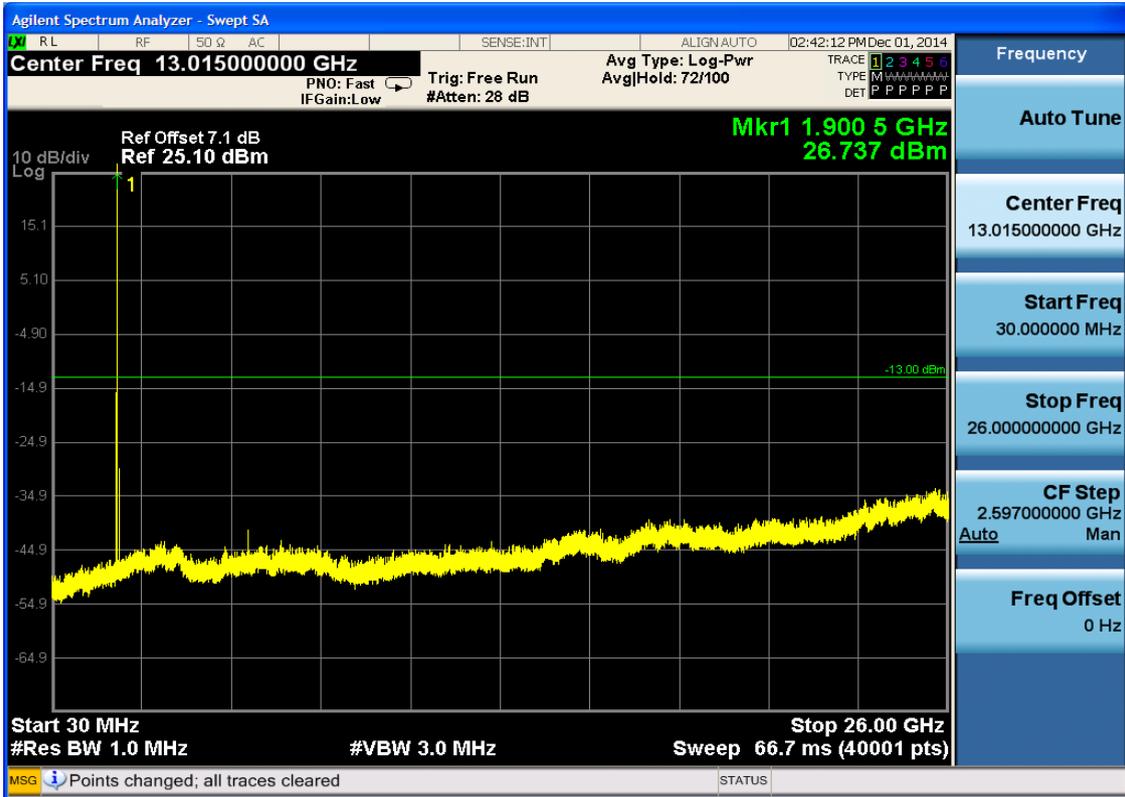


6.1.4.1.4.3 Test Channel = HCH

6.1.4.1.4.3.1 Test RB = RB1#0







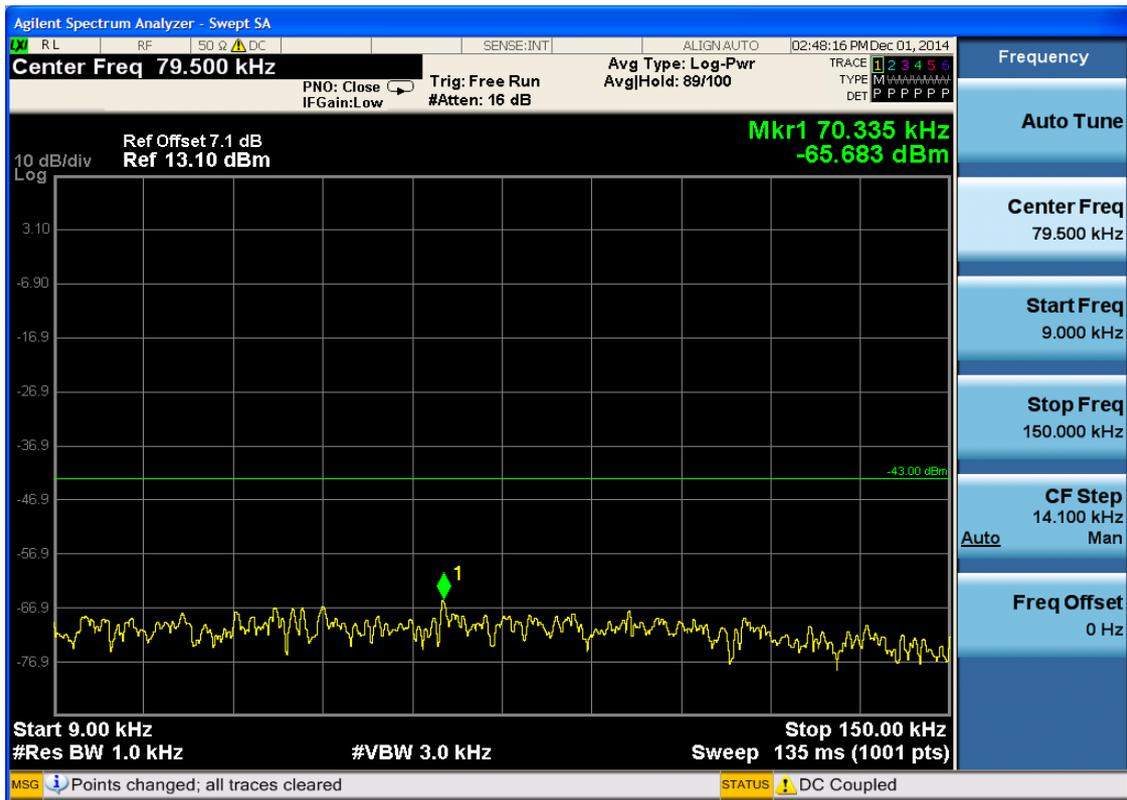


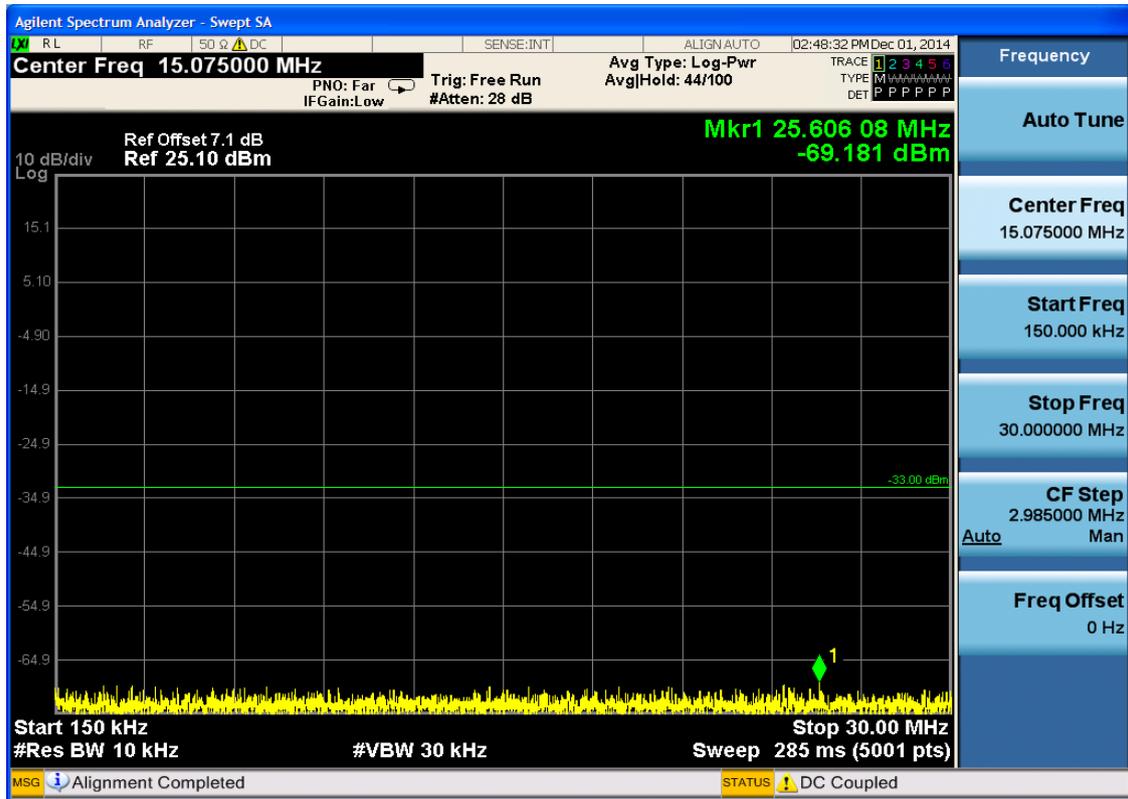
6.1.4.2 Test Mode = LTE/TM2

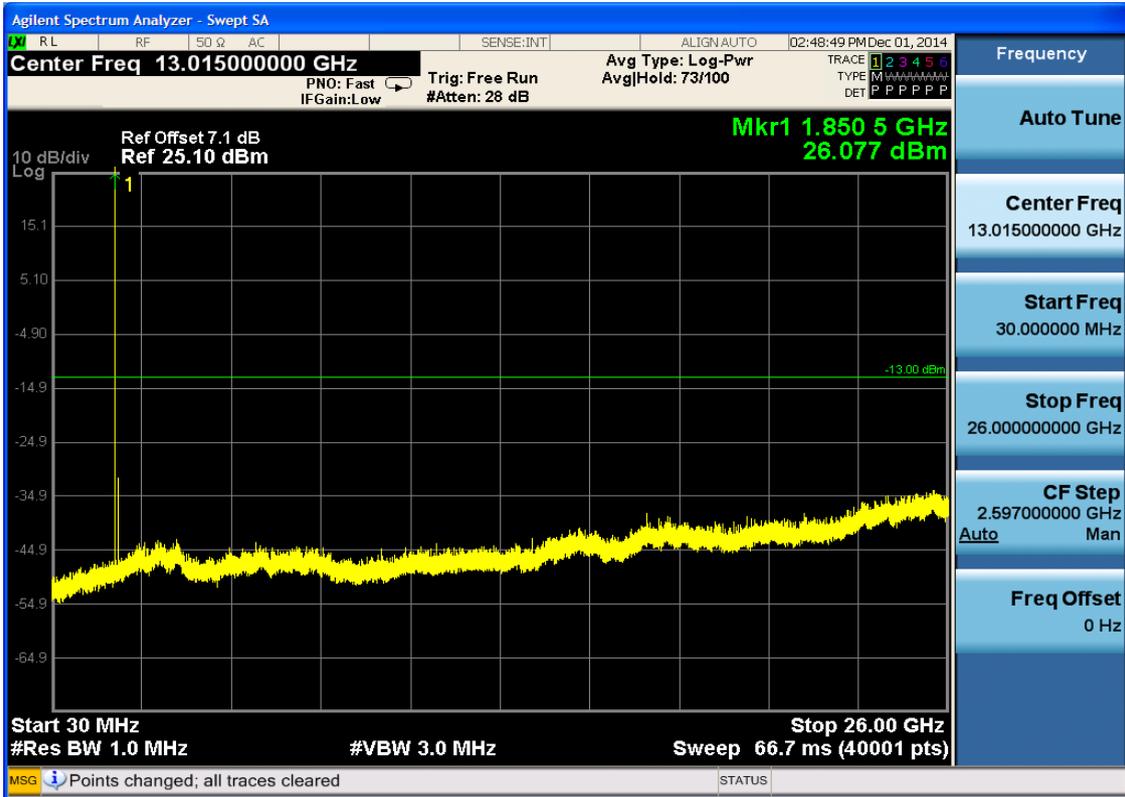
6.1.4.2.1 Test Bandwidth = 1.4

6.1.4.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB1#0



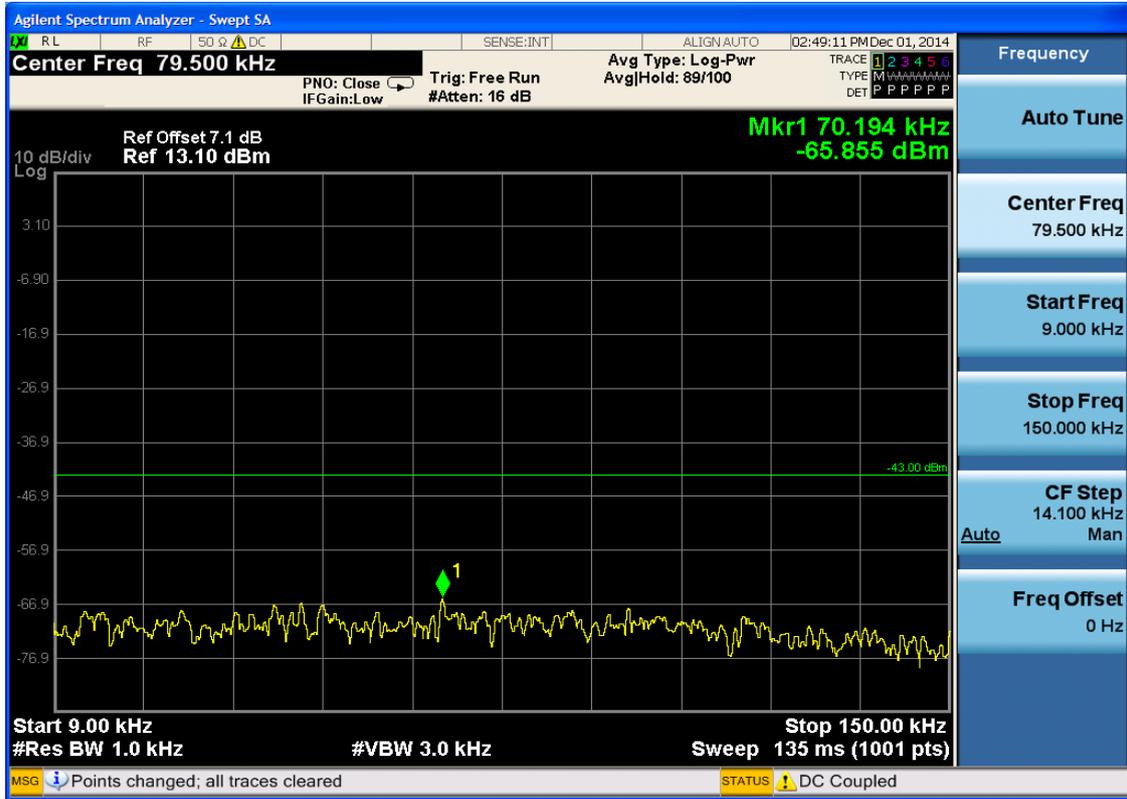


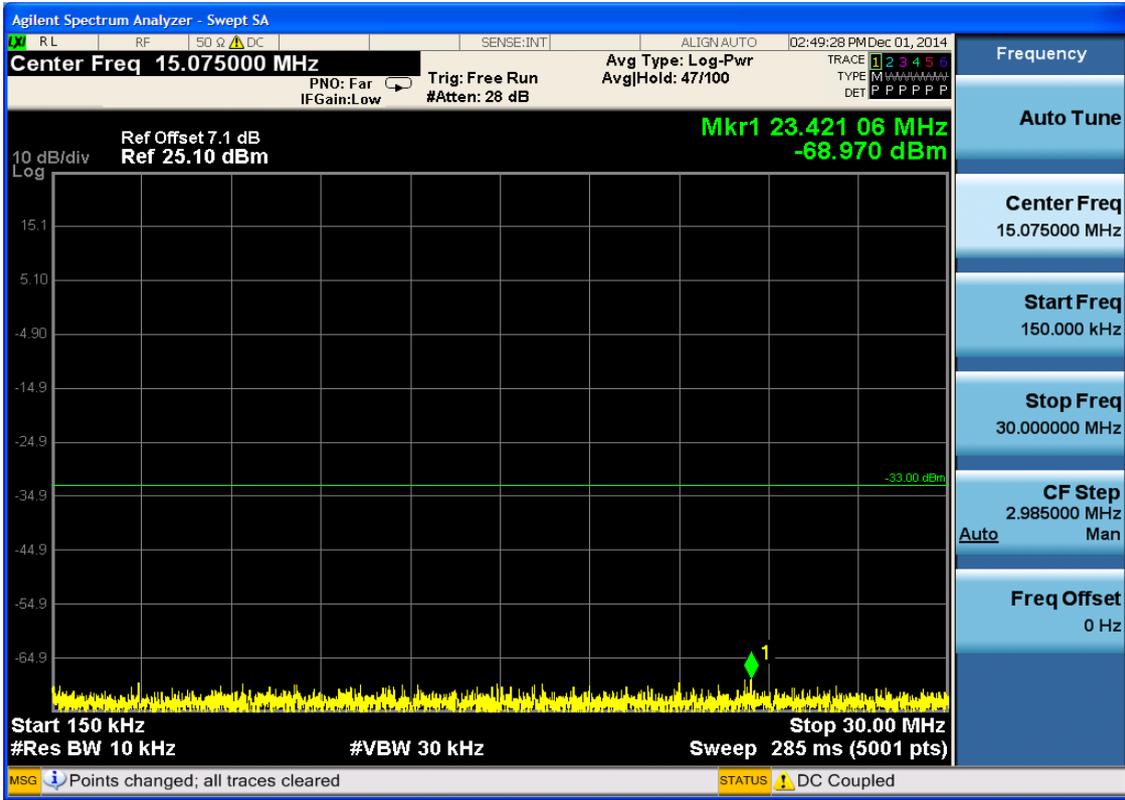




4.1.1.2.1.2 Test Channel = MCH

4.1.1.2.1.2.1 Test RB = RB1#0



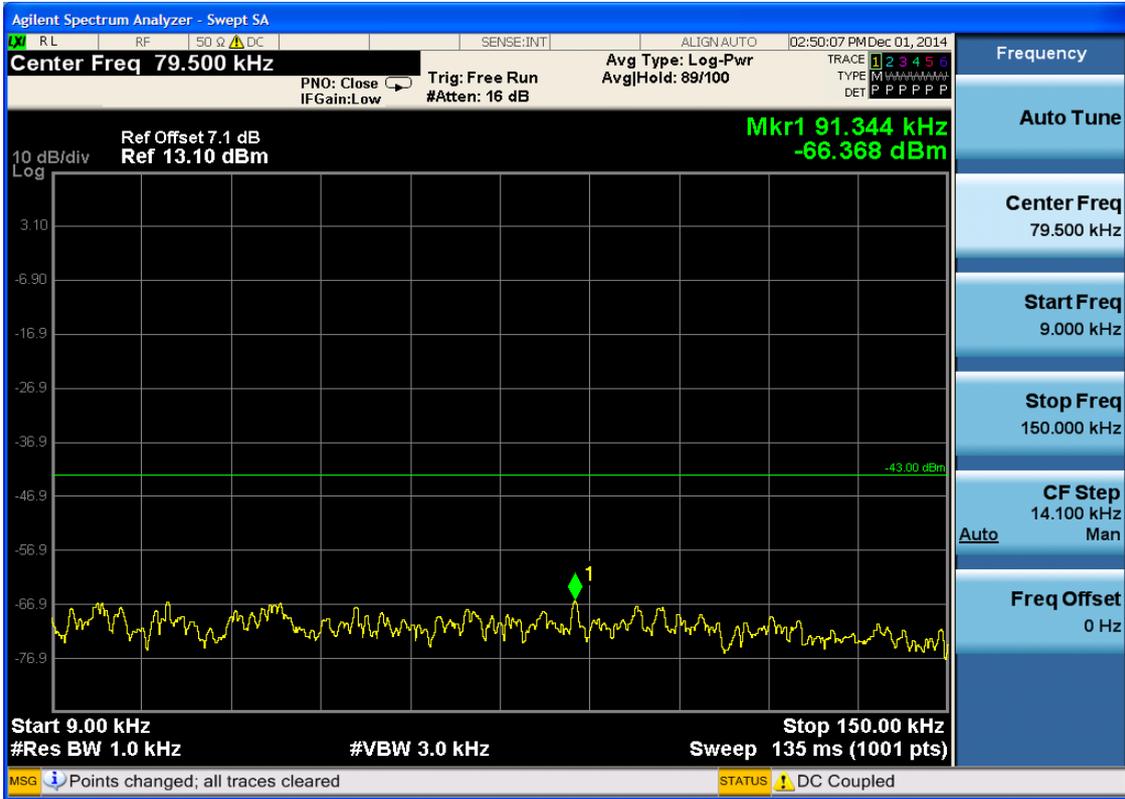


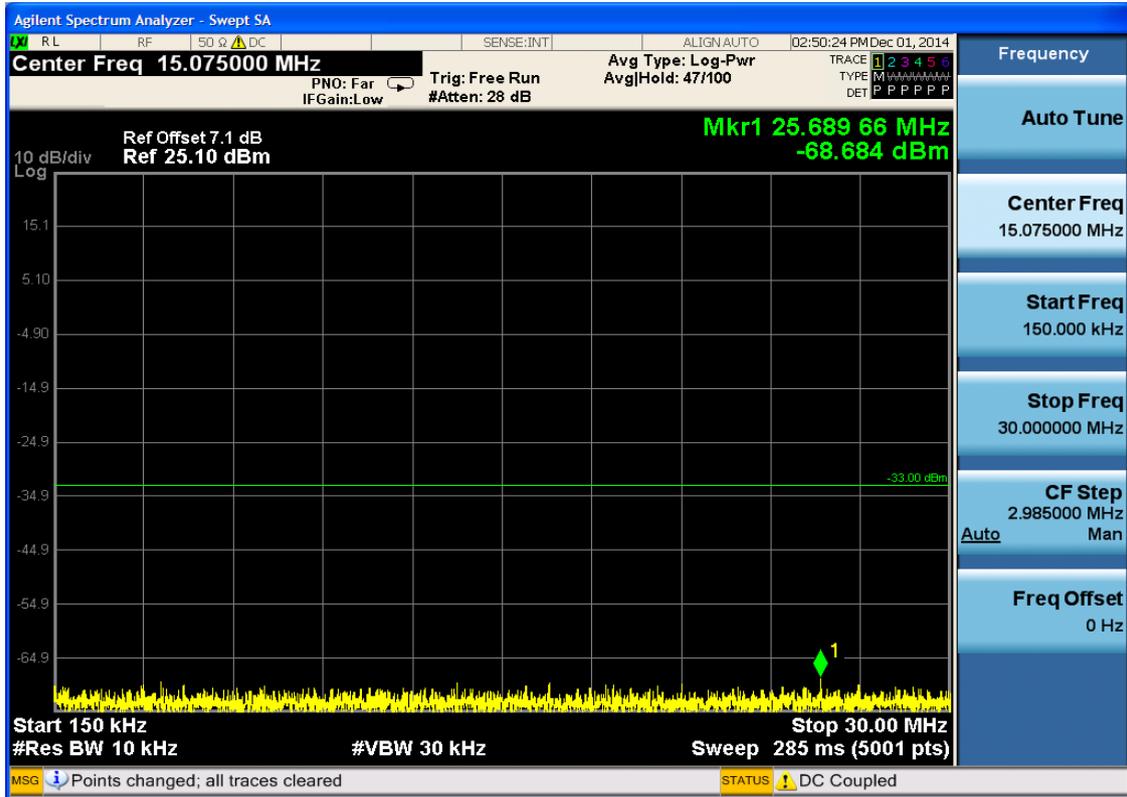


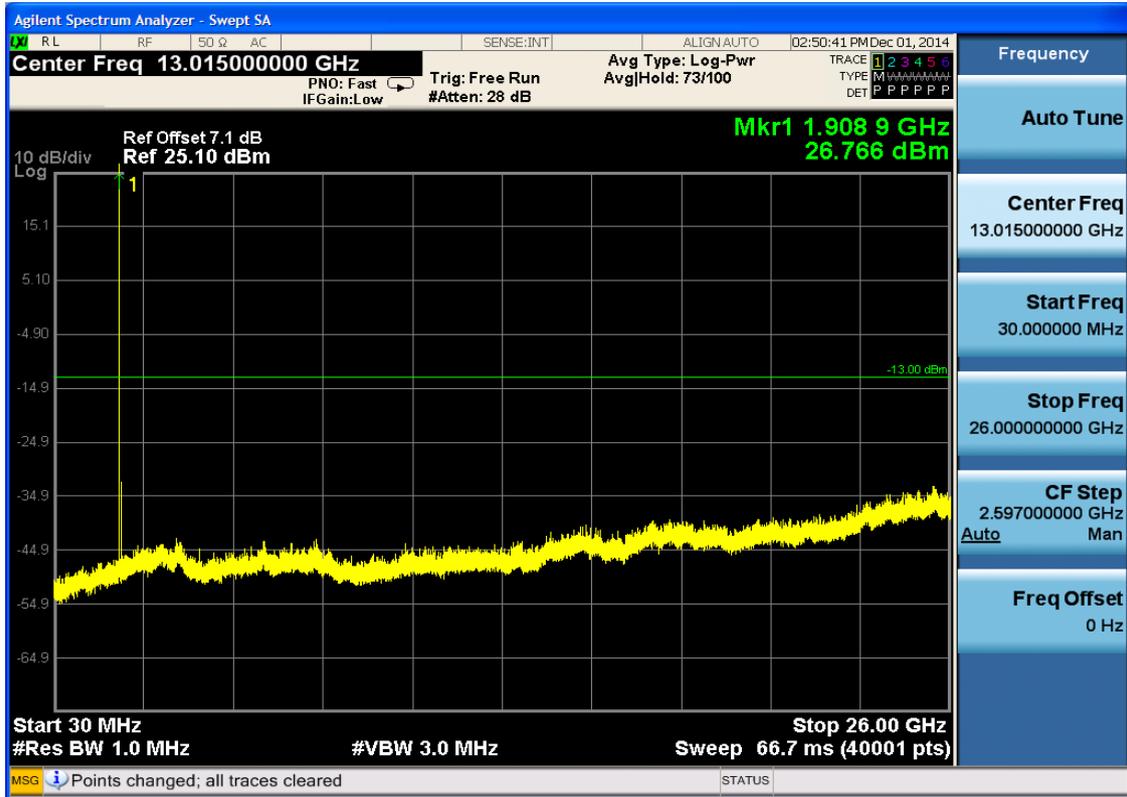


4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB1#0





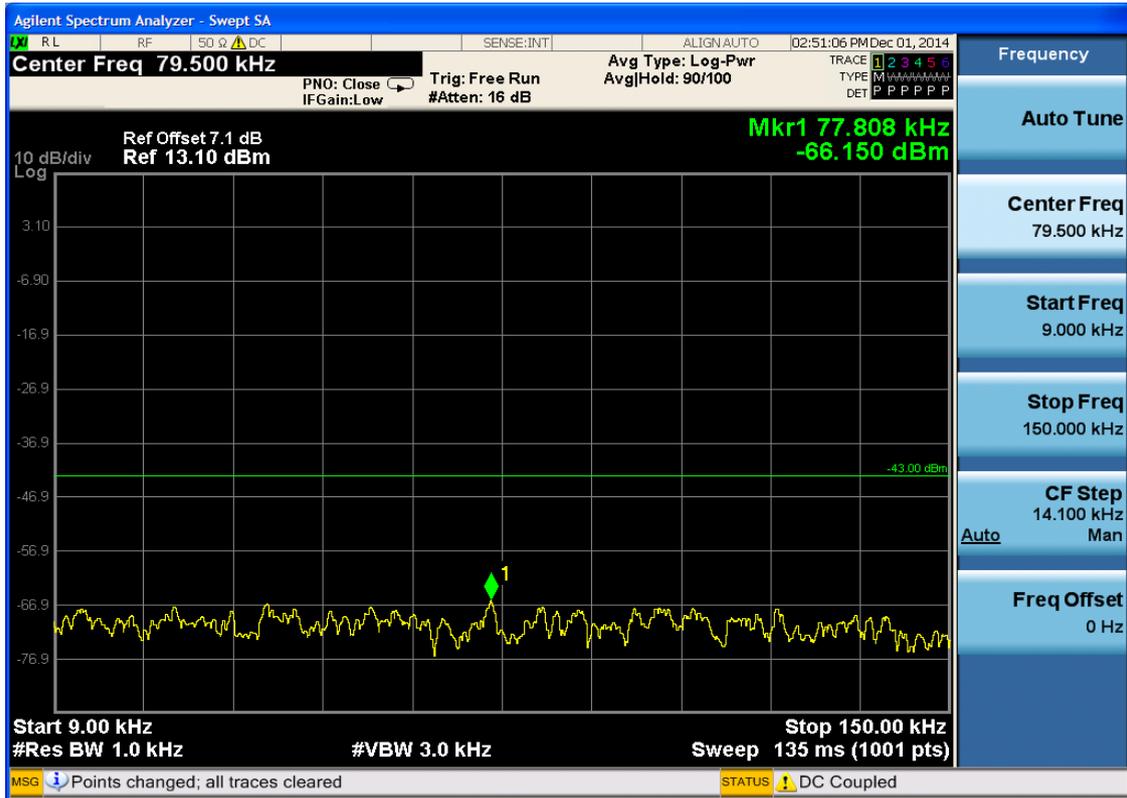




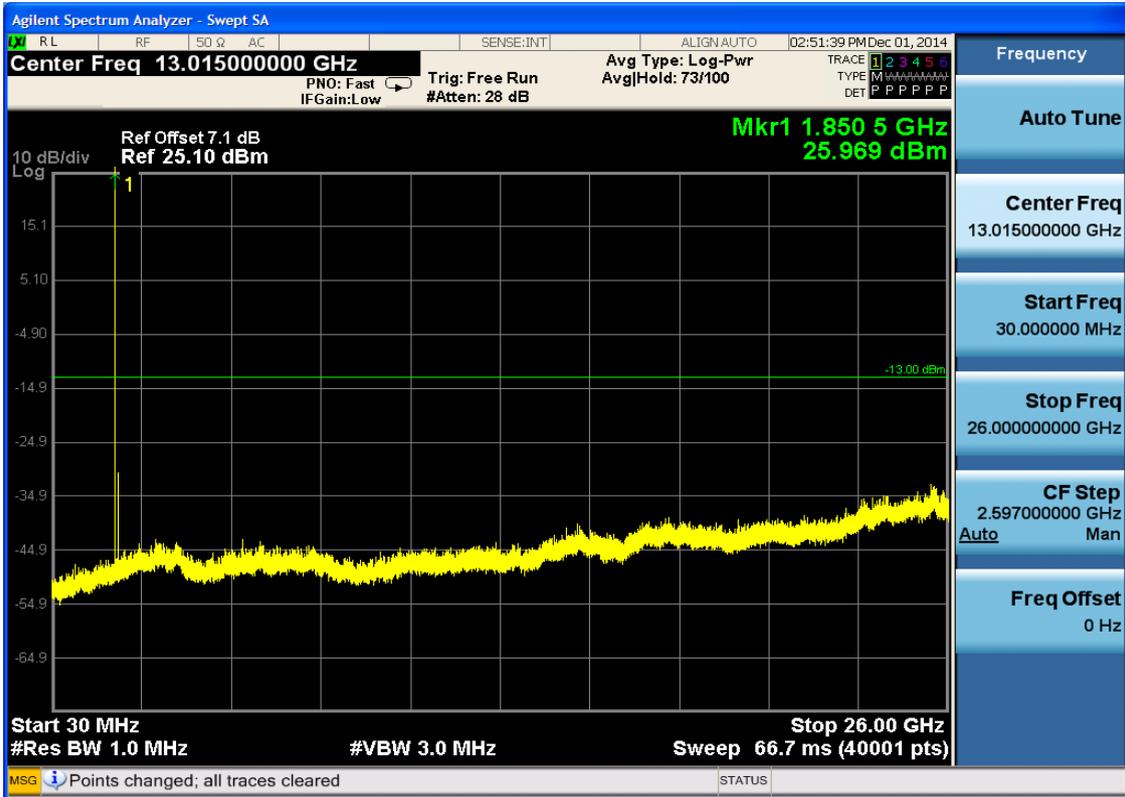
6.1.4.2.2 Test Bandwidth = 3

6.1.4.2.2.1 Test Channel = LCH

6.1.4.2.2.1.1 Test RB = RB1#0



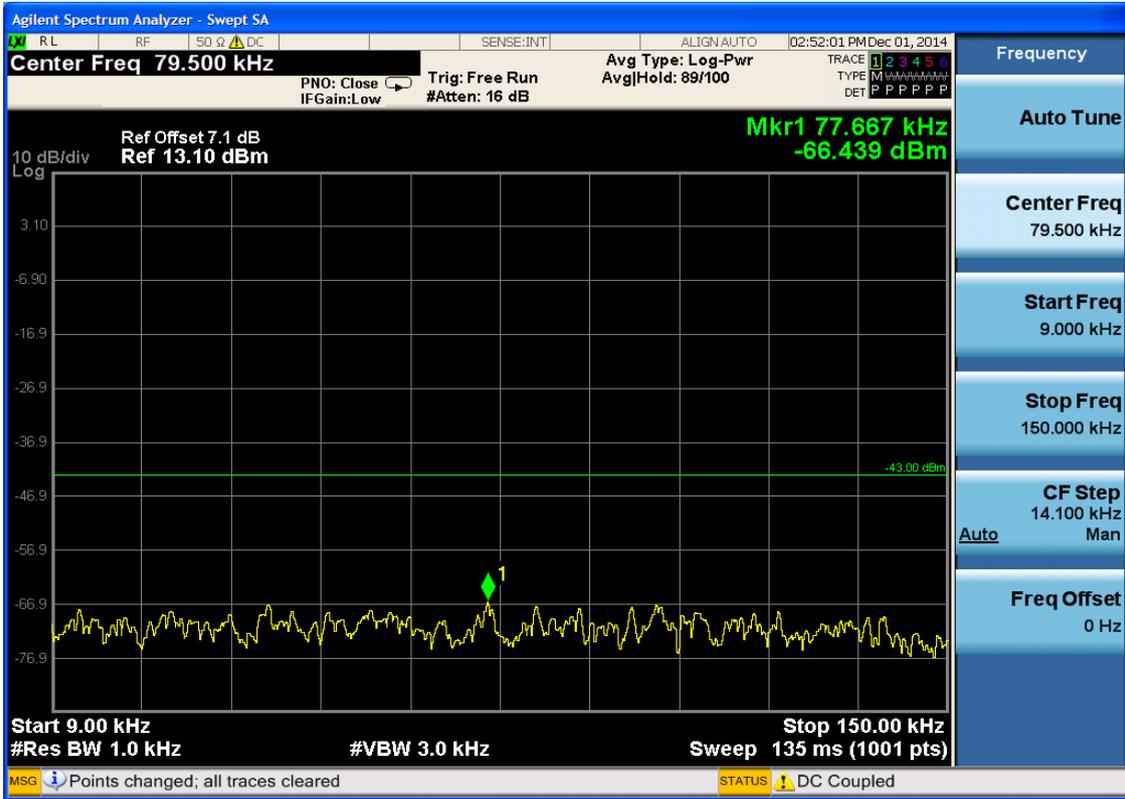




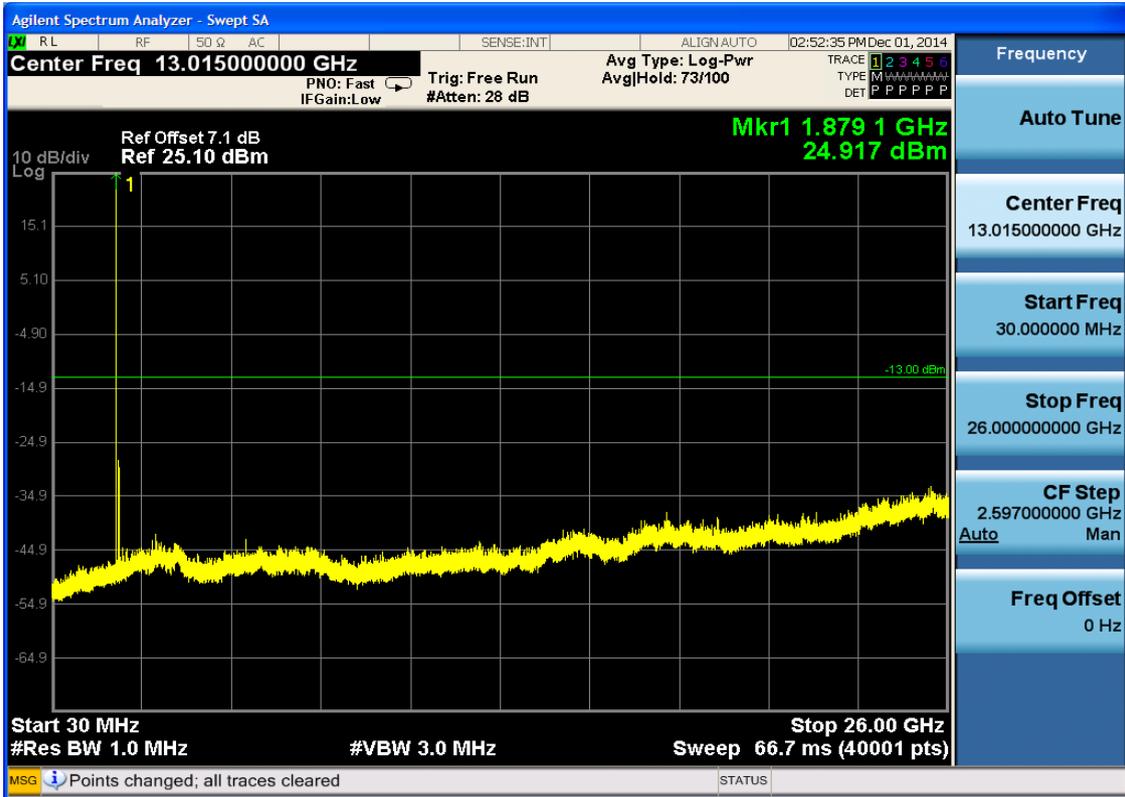


6.1.4.2.2.2 Test Channel = MCH

6.1.4.2.2.2.1 Test RB = RB1#0



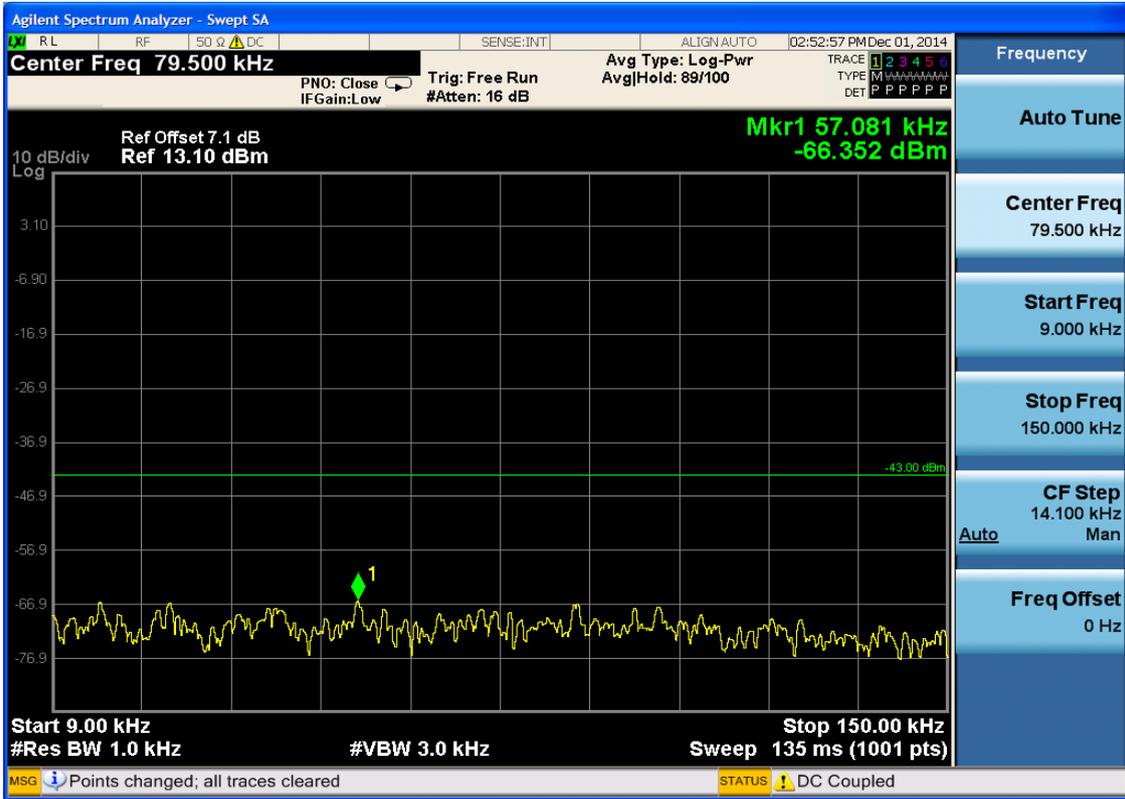






6.1.4.2.2.3 Test Channel = HCH

6.1.4.2.2.3.1 Test RB = RB1#0





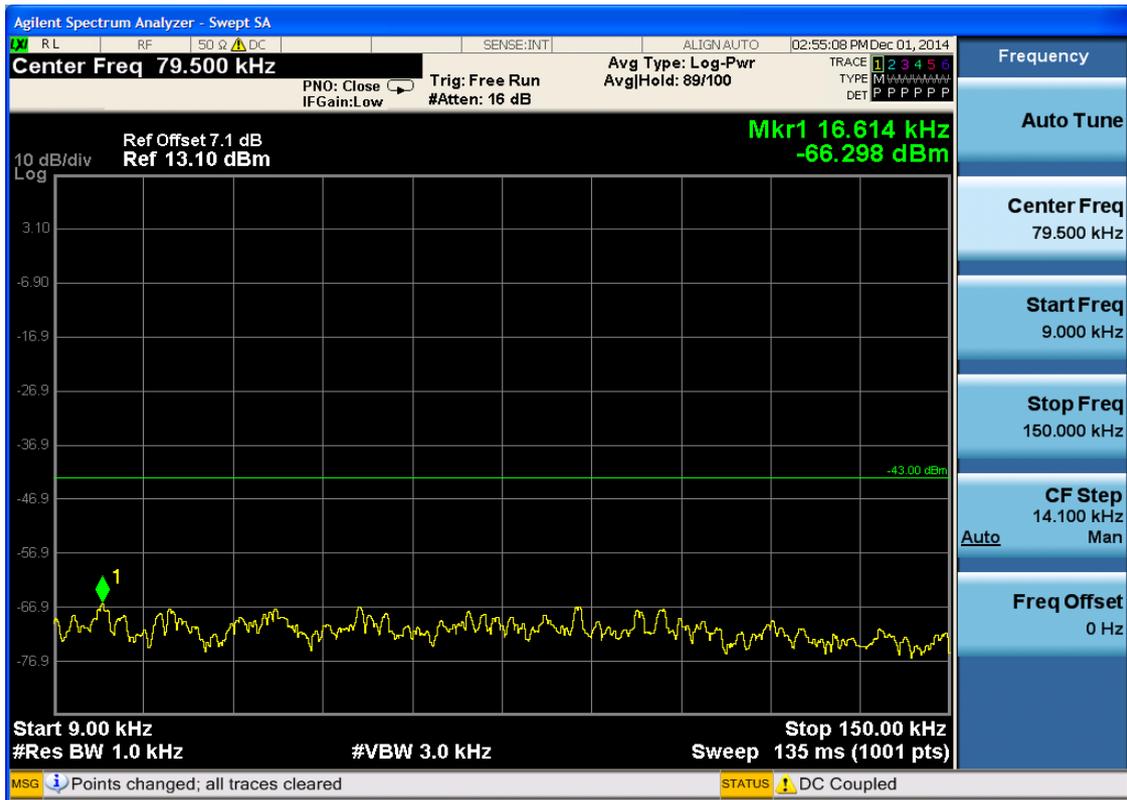


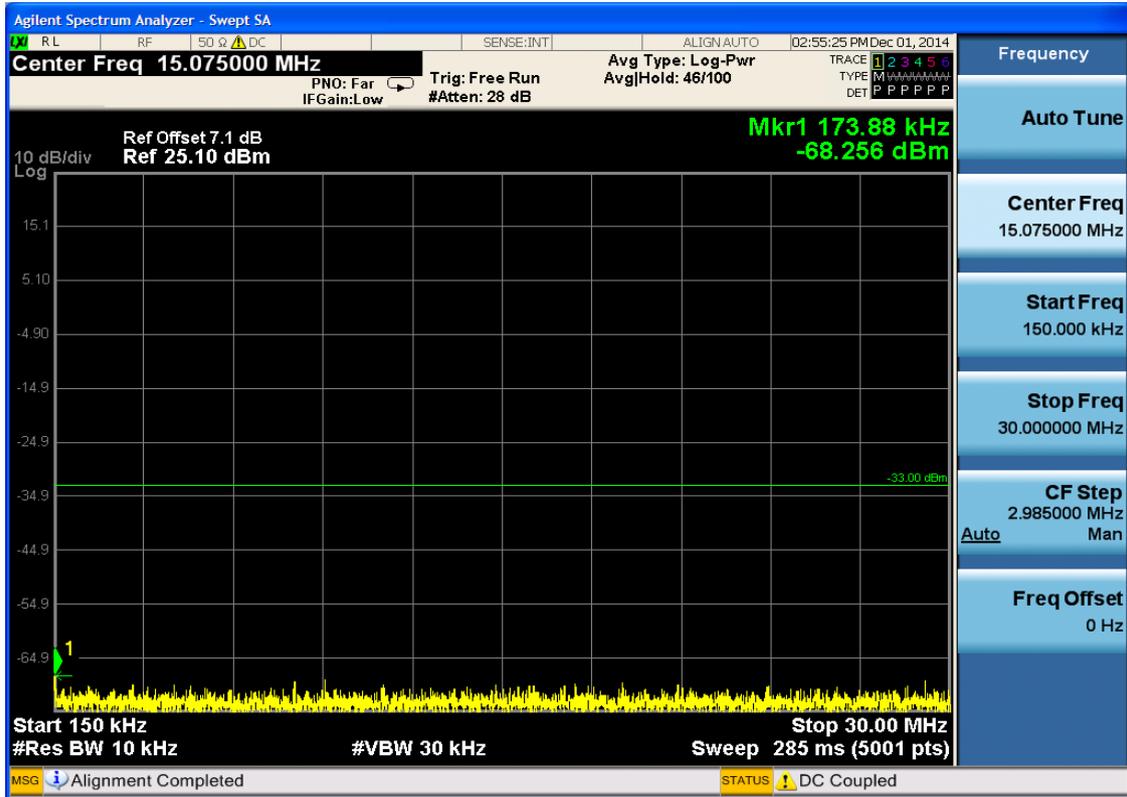


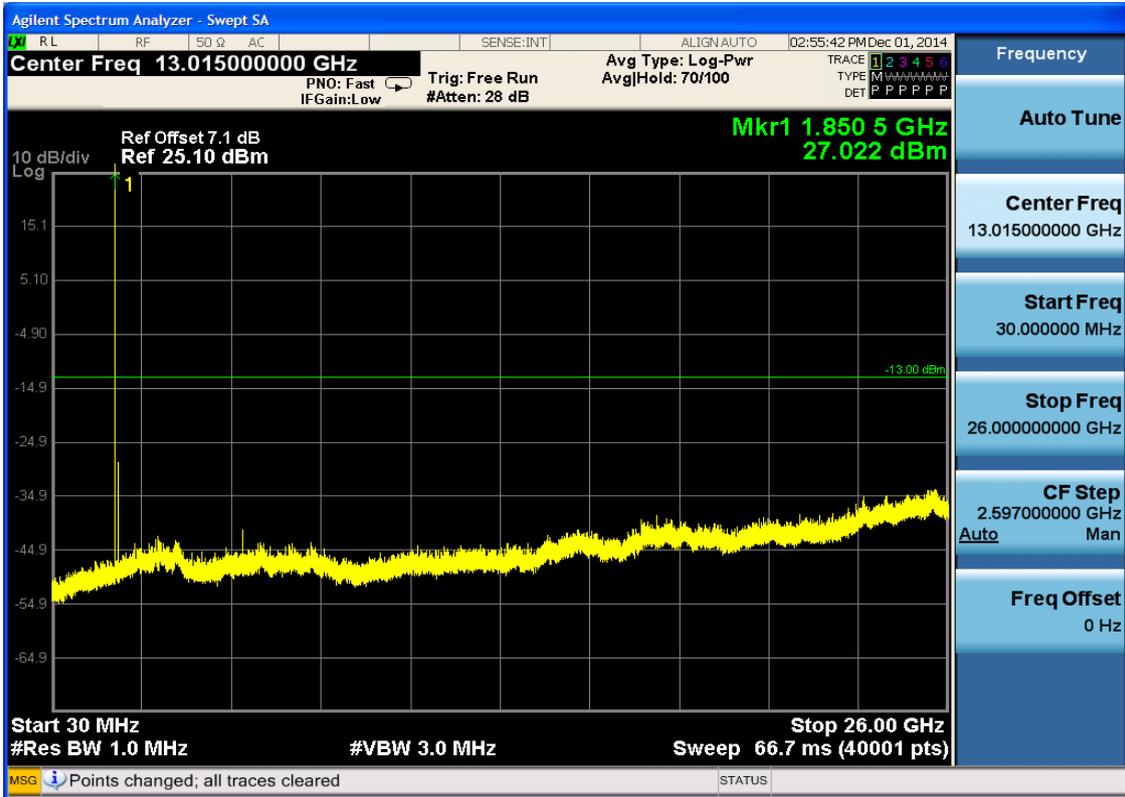
6.1.4.2.3 Test Bandwidth = 5

6.1.4.2.3.1 Test Channel = LCH

6.1.4.2.3.1.1 Test RB = RB1#0



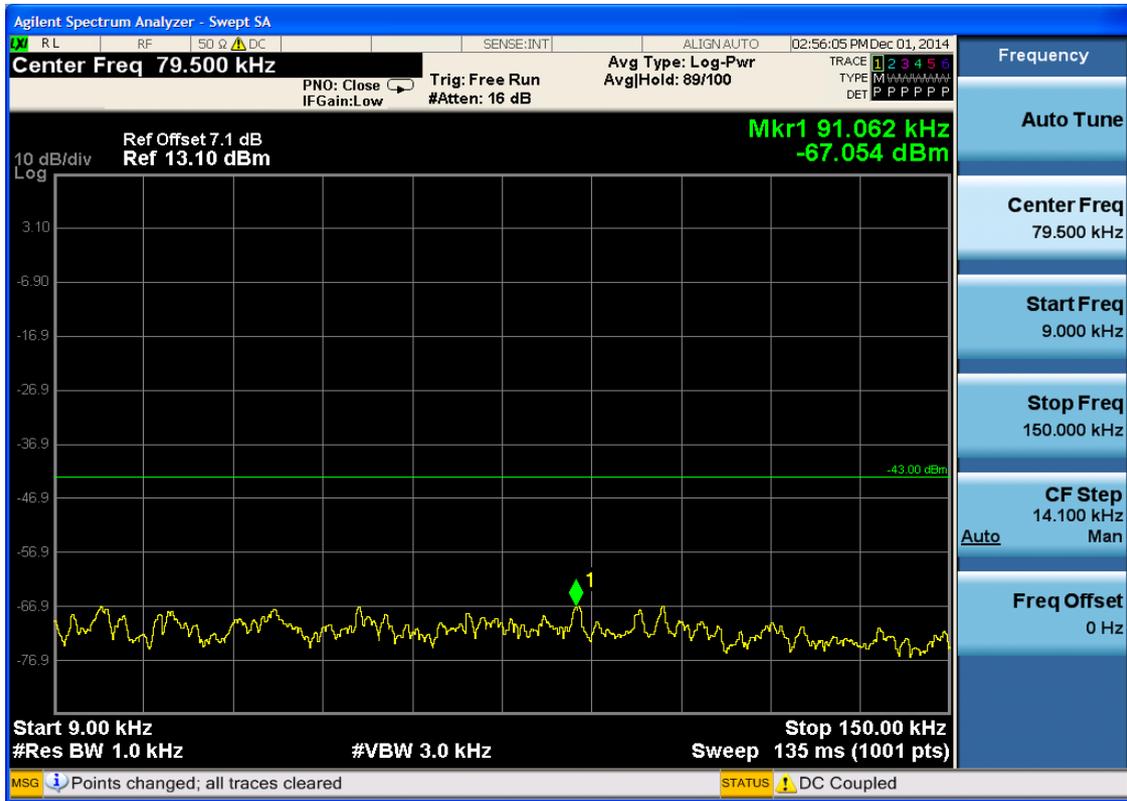


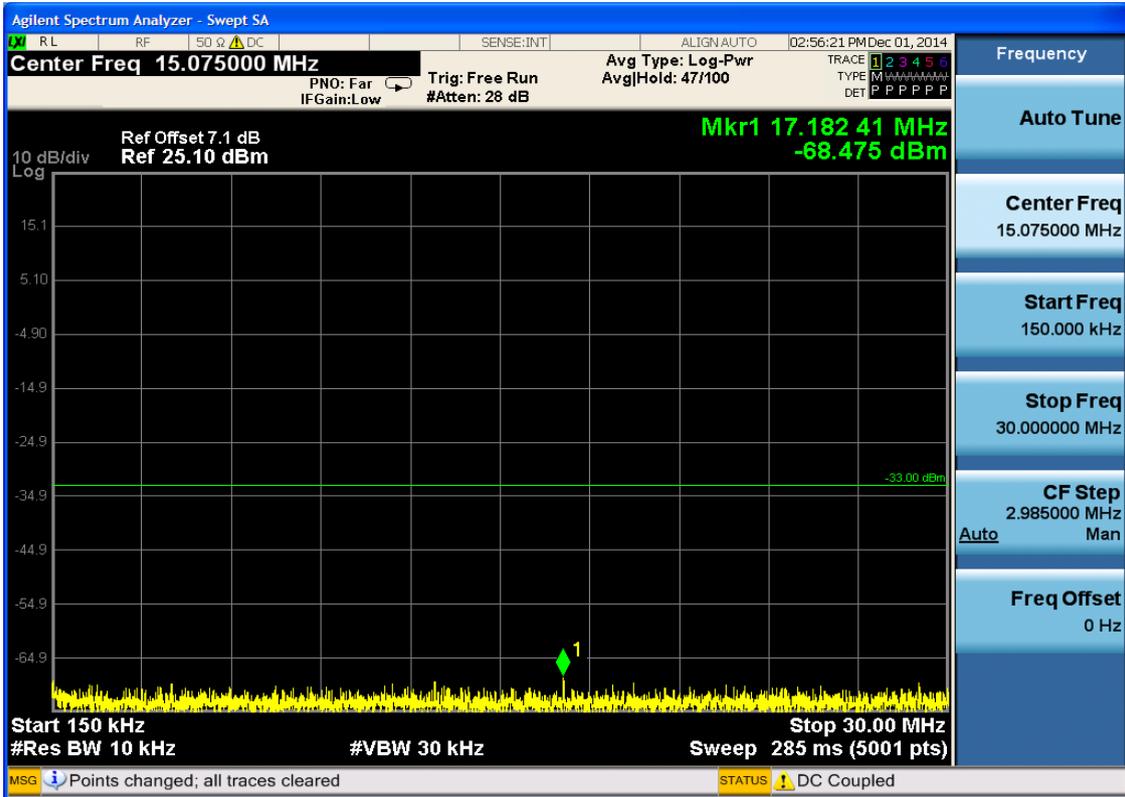


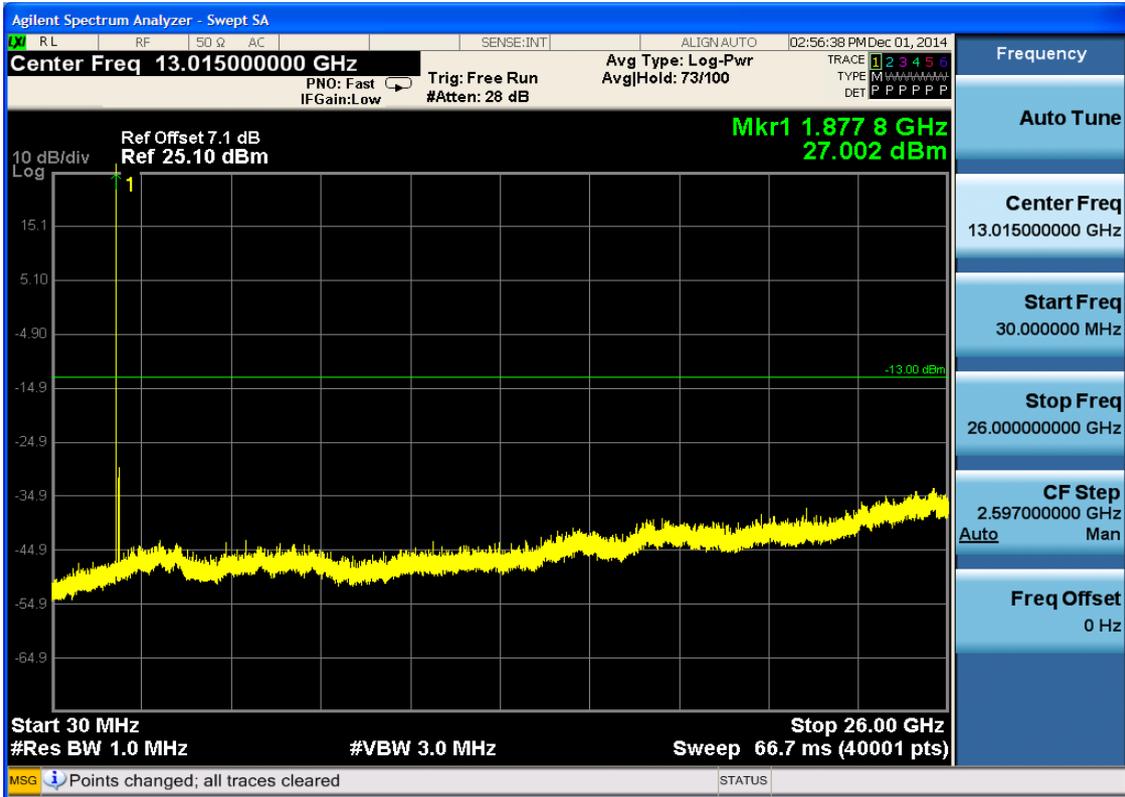


6.1.4.2.3.2 Test Channel = MCH

6.1.4.2.3.2.1 Test RB = RB1#0



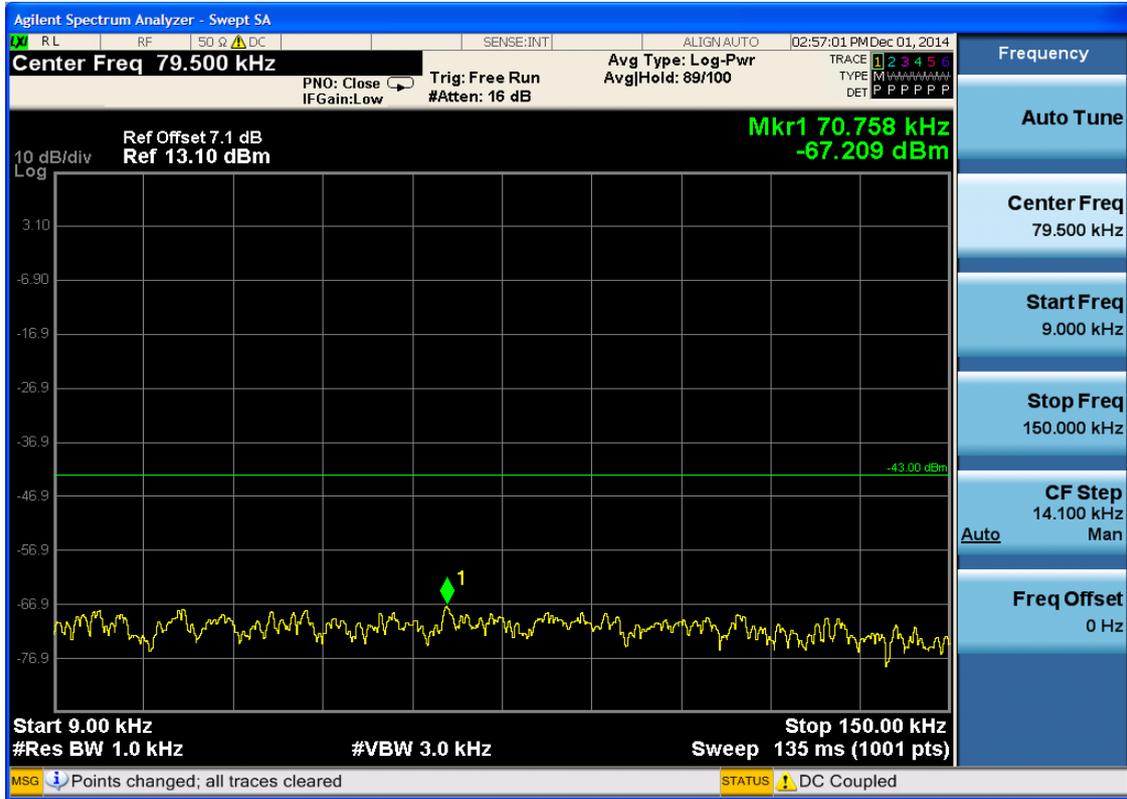


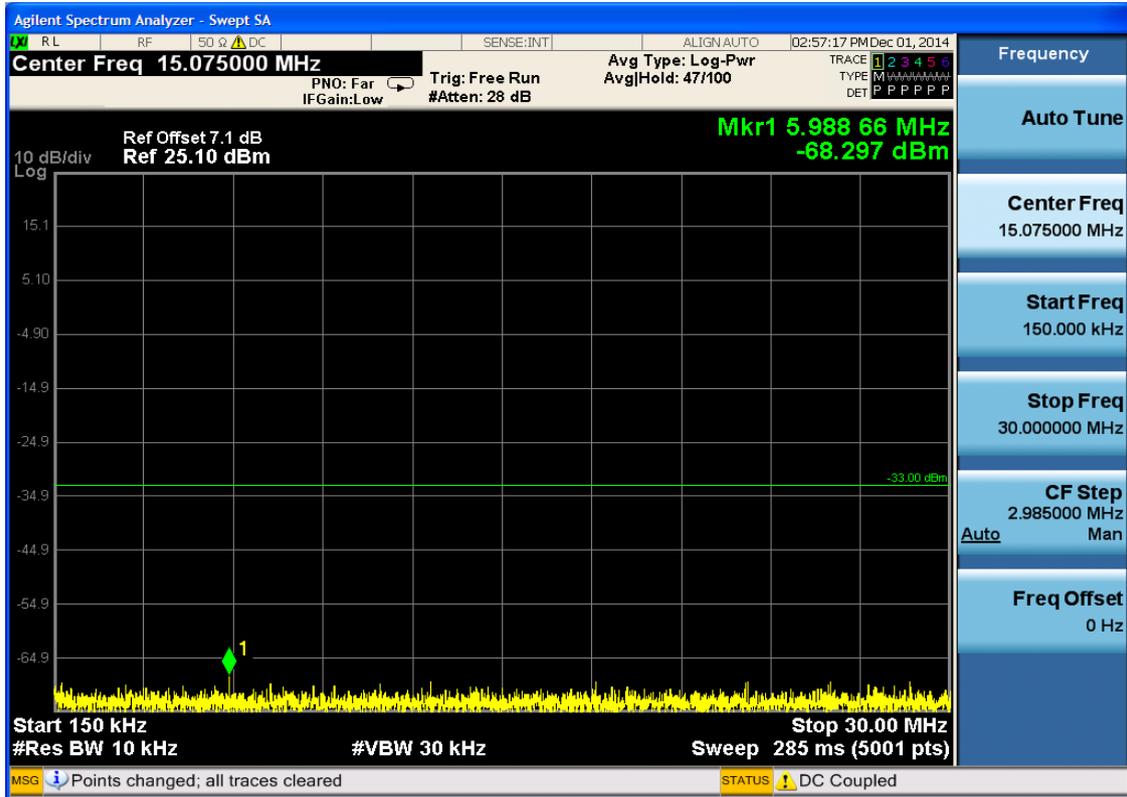


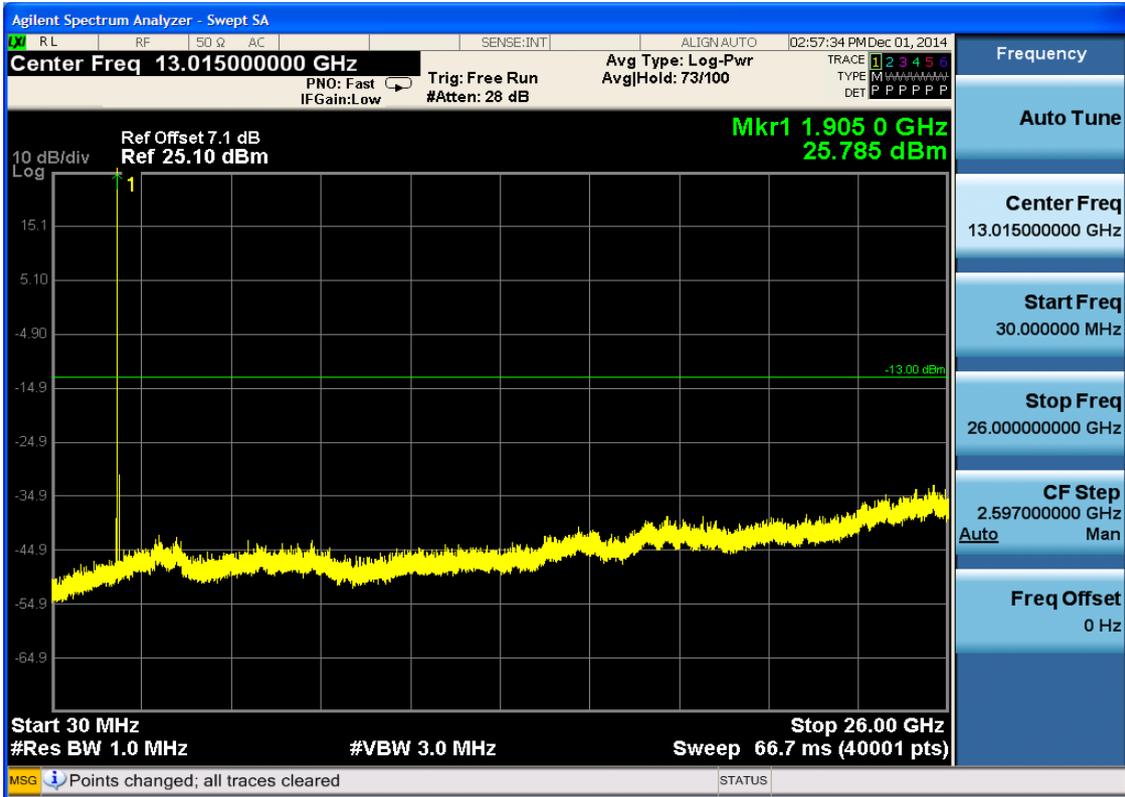


6.1.4.2.3.3 Test Channel = HCH

6.1.4.2.3.3.1 Test RB = RB1#0





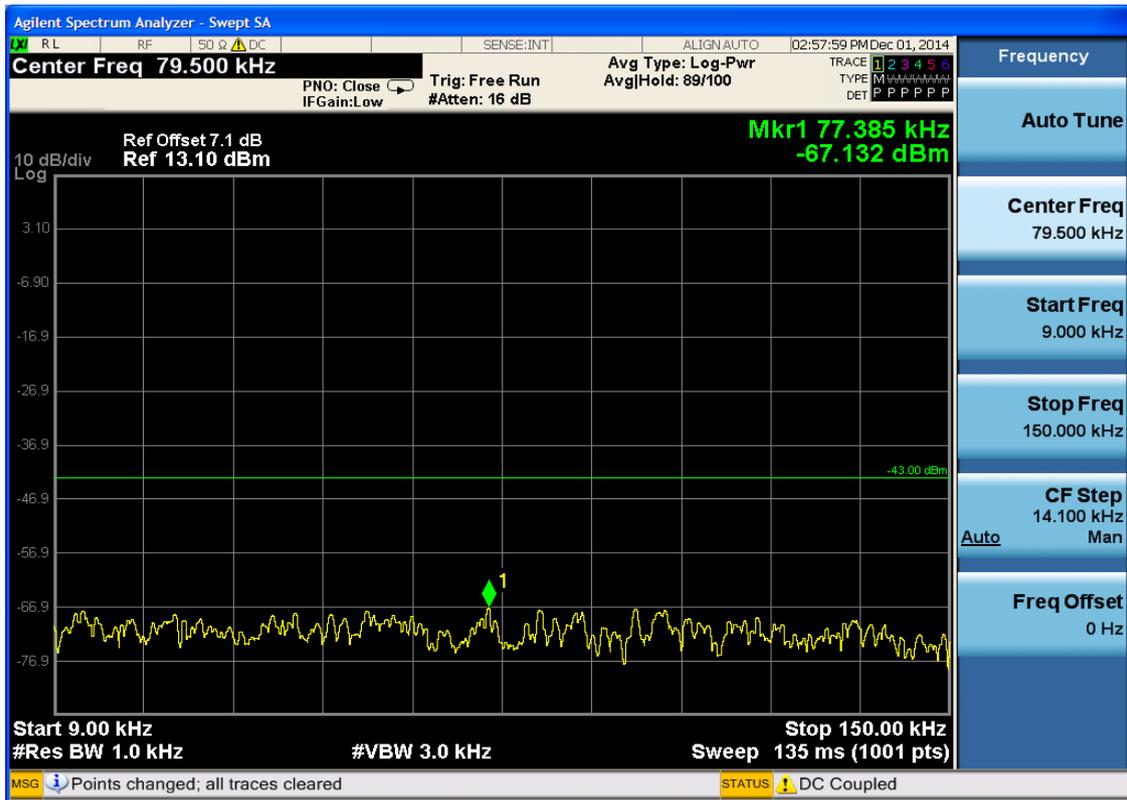


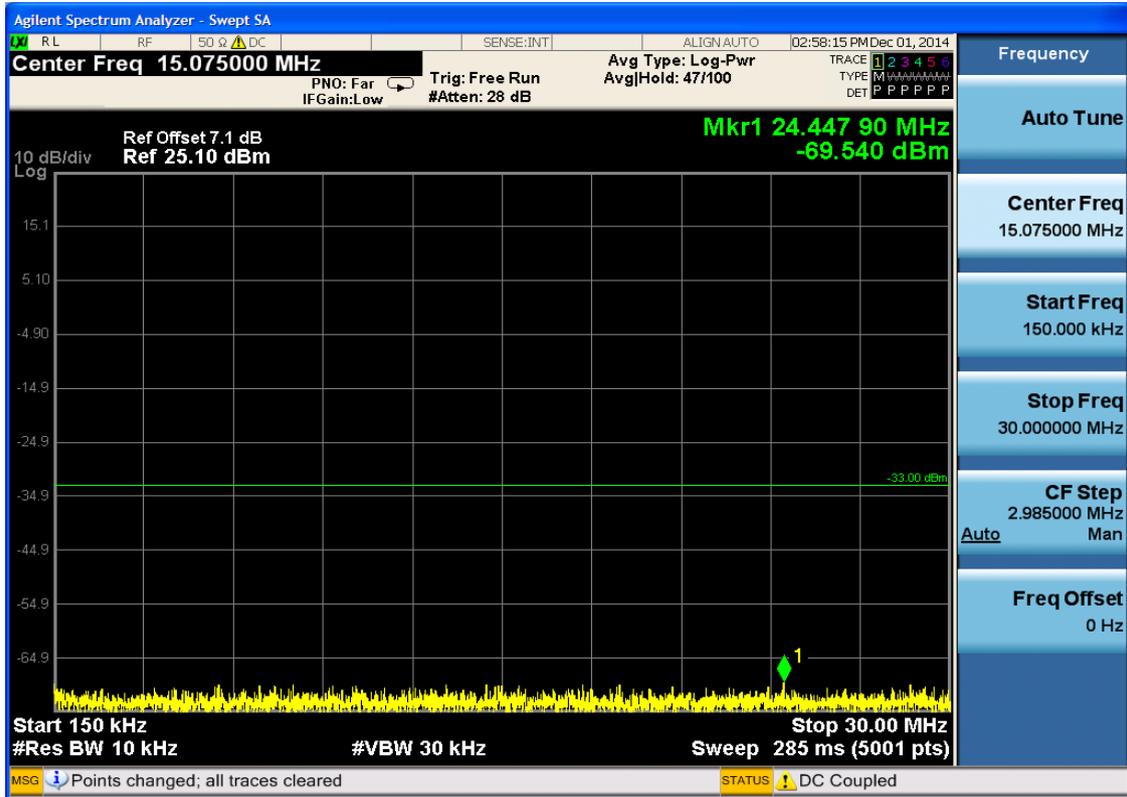


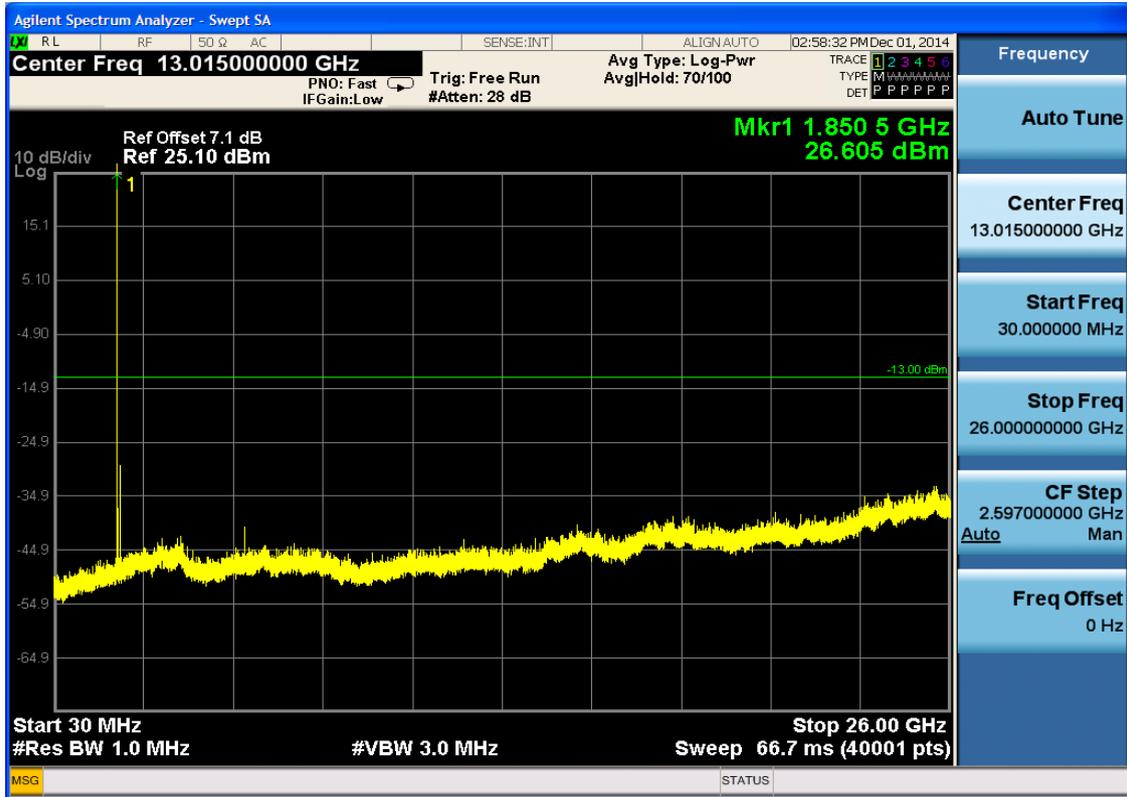
6.1.4.2.4 Test Bandwidth = 10

6.1.4.2.4.1 Test Channel = LCH

6.1.4.2.4.1.1 Test RB = RB1#0



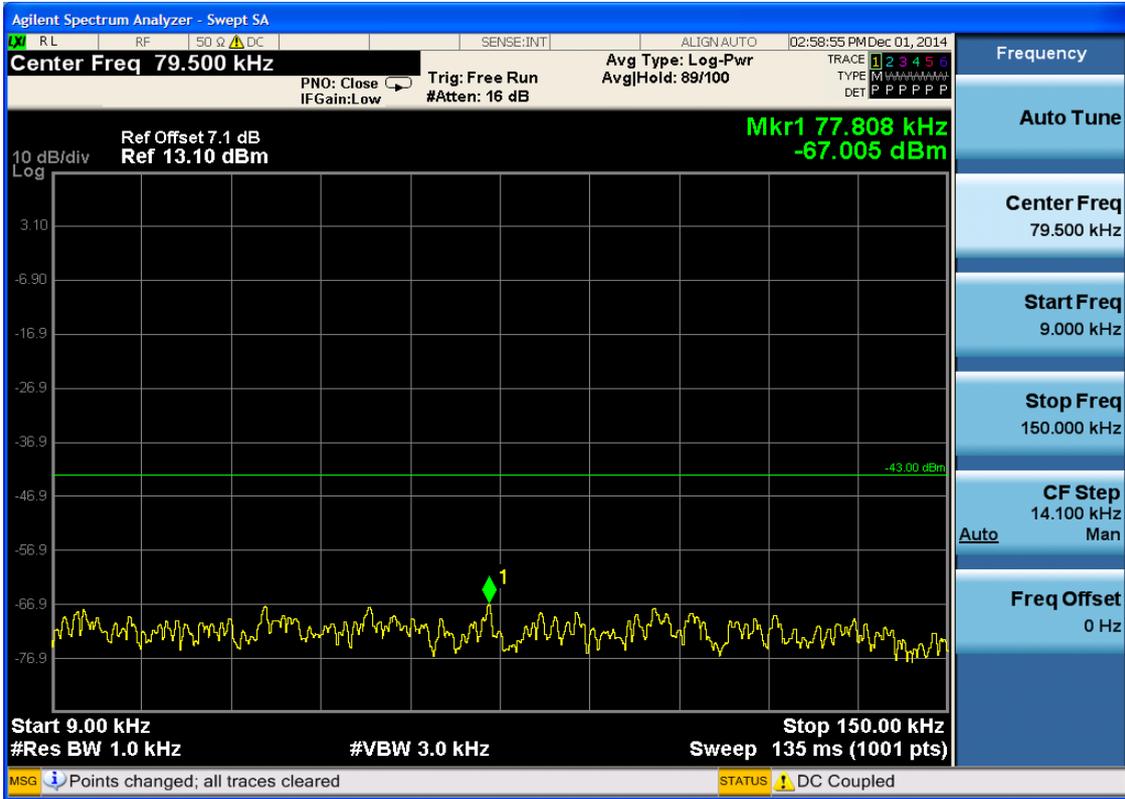


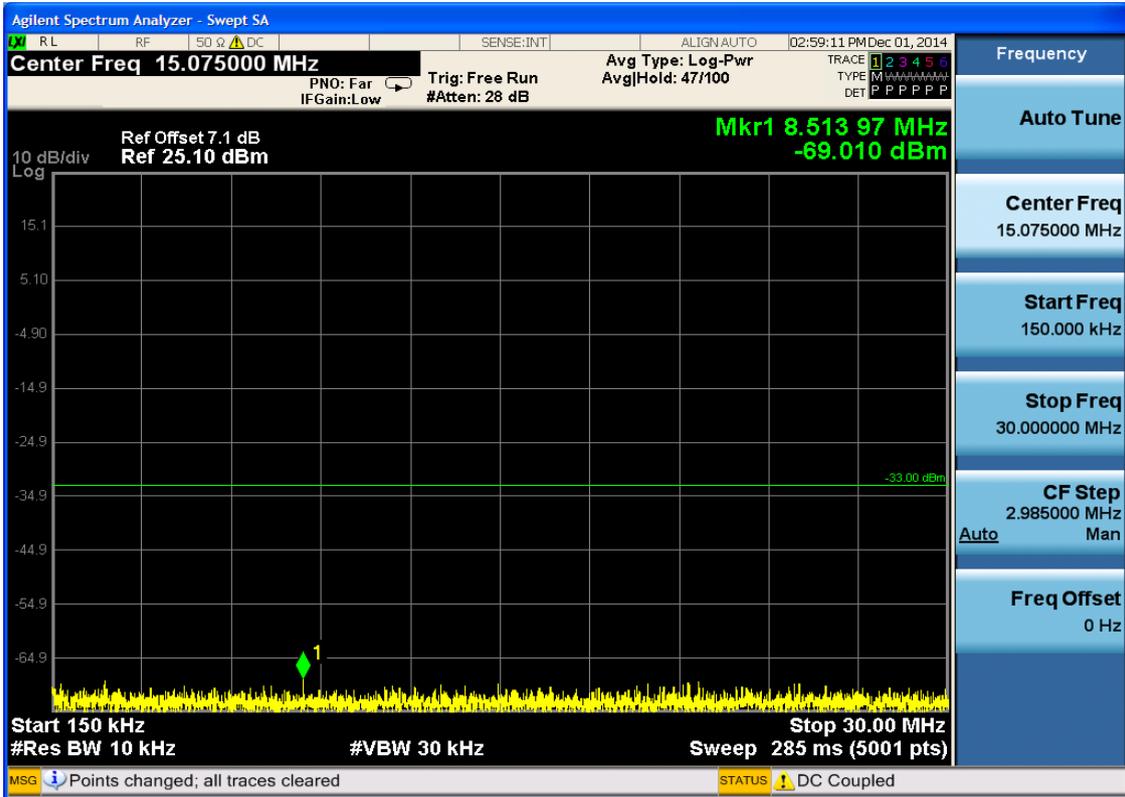


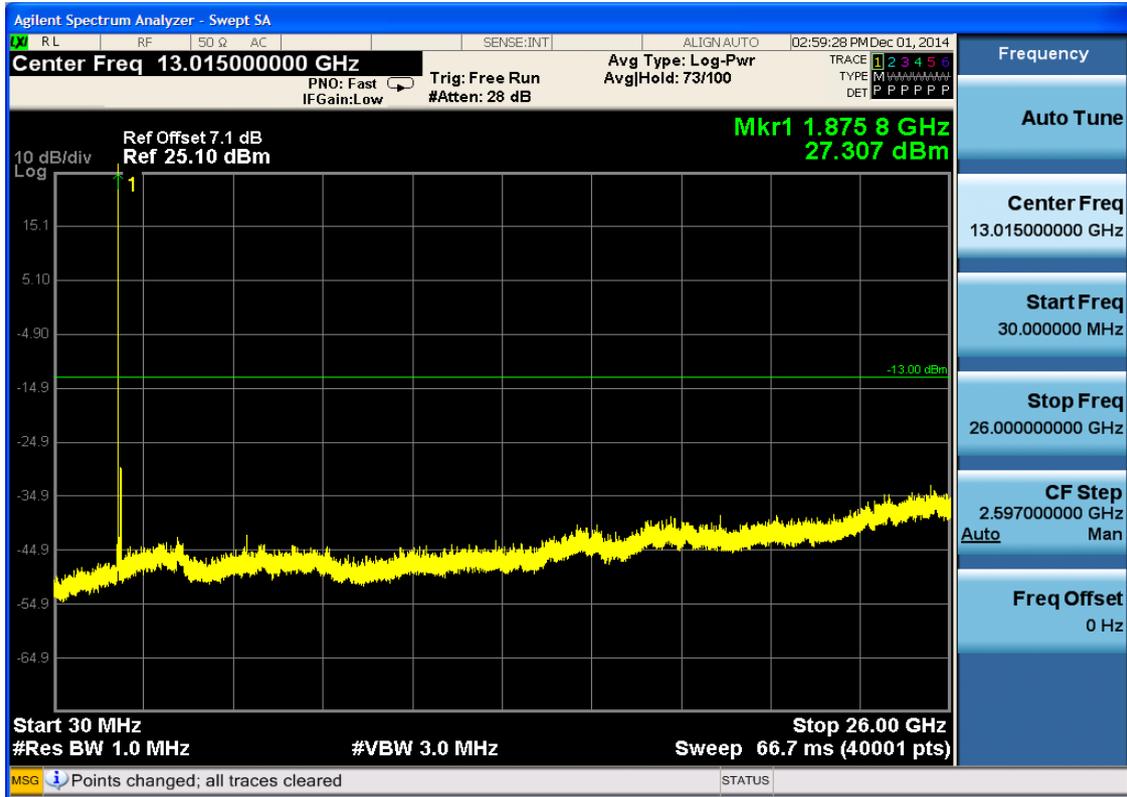


6.1.4.2.4.2 Test Channel = MCH

6.1.4.2.4.2.1 Test RB = RB1#0



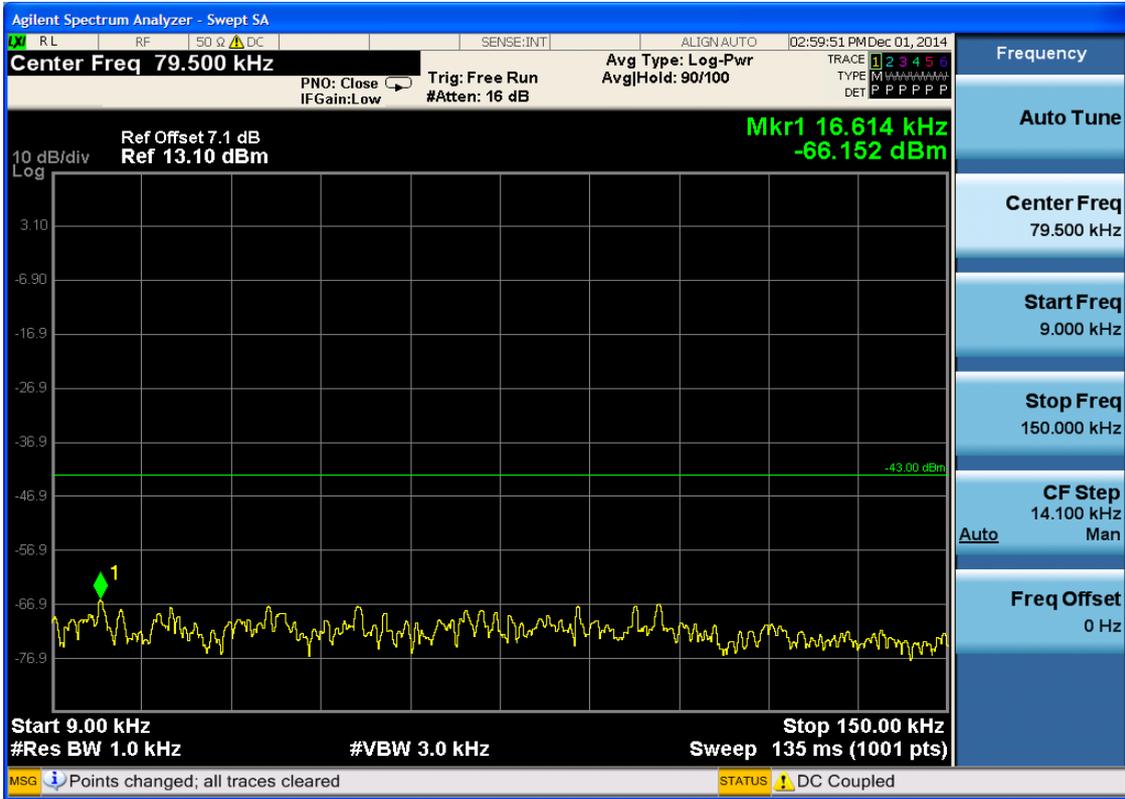


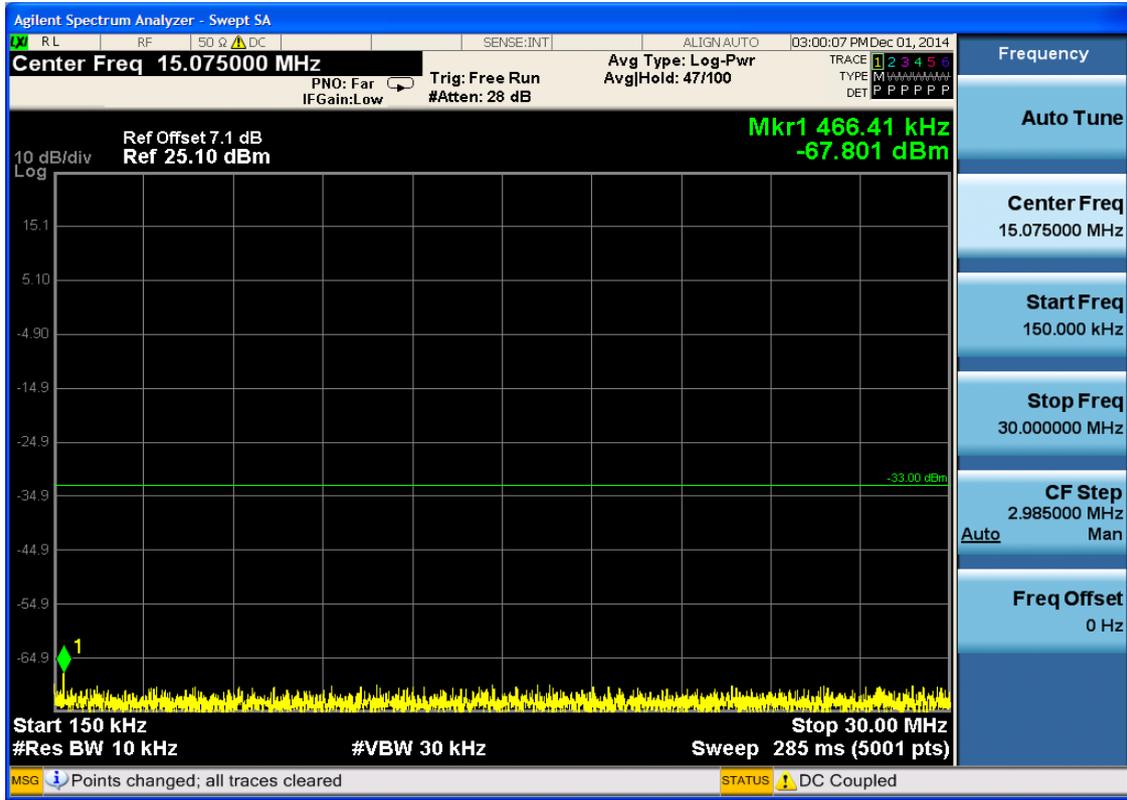




6.1.4.2.4.3 Test Channel = HCH

6.1.4.2.4.3.1 Test RB = RB1#0







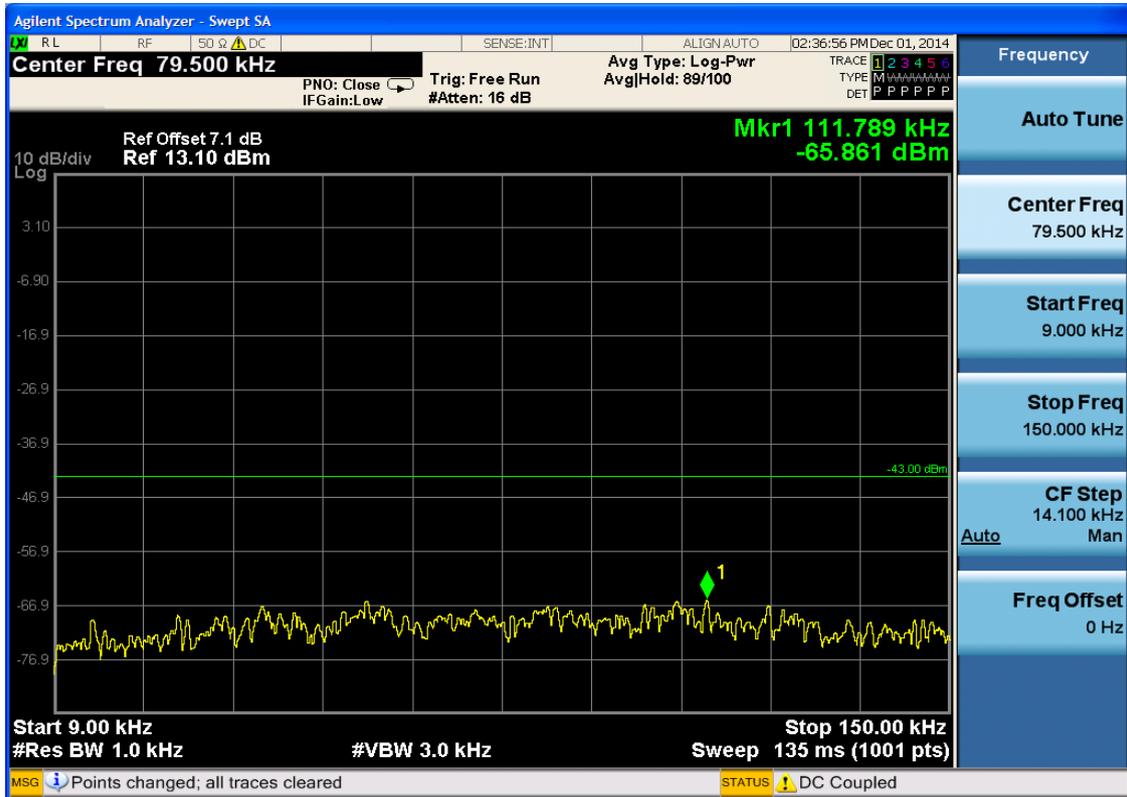
6.1.7 Test Band = BAND17

6.1.7.1 Test Mode = LTE/TM1

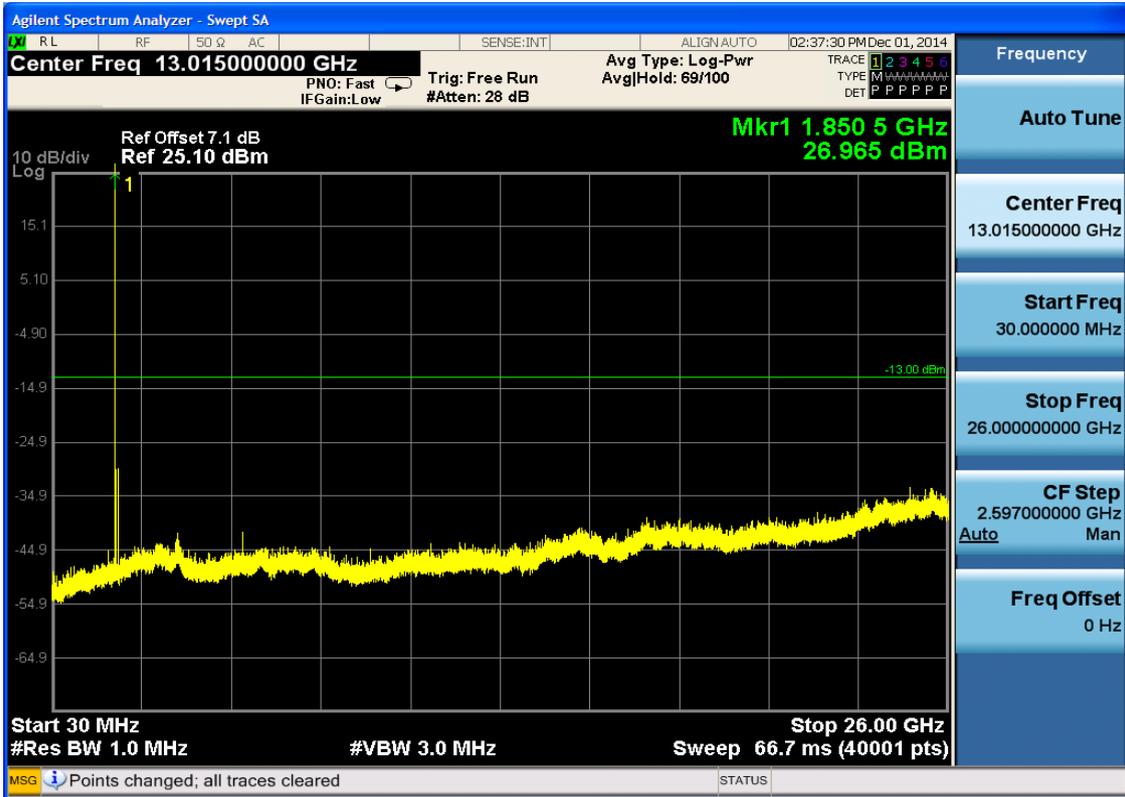
6.1.7.1.1 Test Bandwidth = 5

6.1.7.1.1.1 Test Channel = LCH

6.1.7.1.1.1.1 Test RB = RB1#0



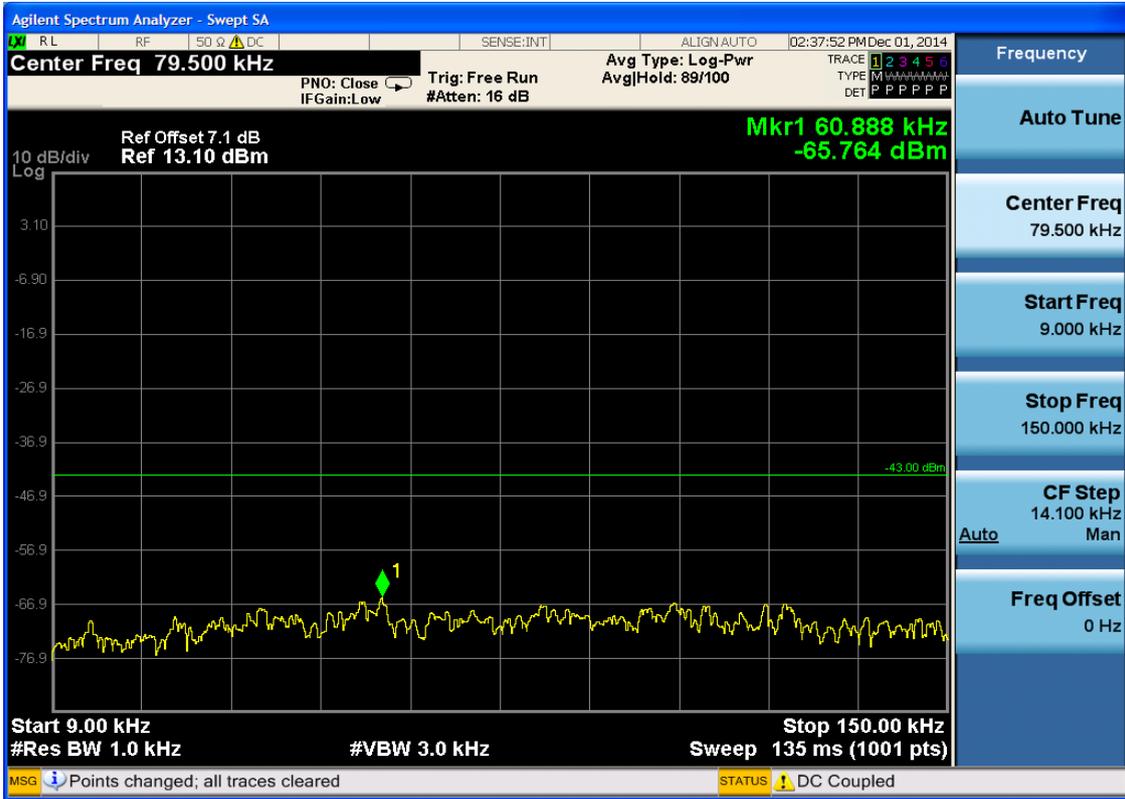






6.1.7.1.1.2 Test Channel = MCH

6.1.7.1.1.2.1 Test RB = RB1#0



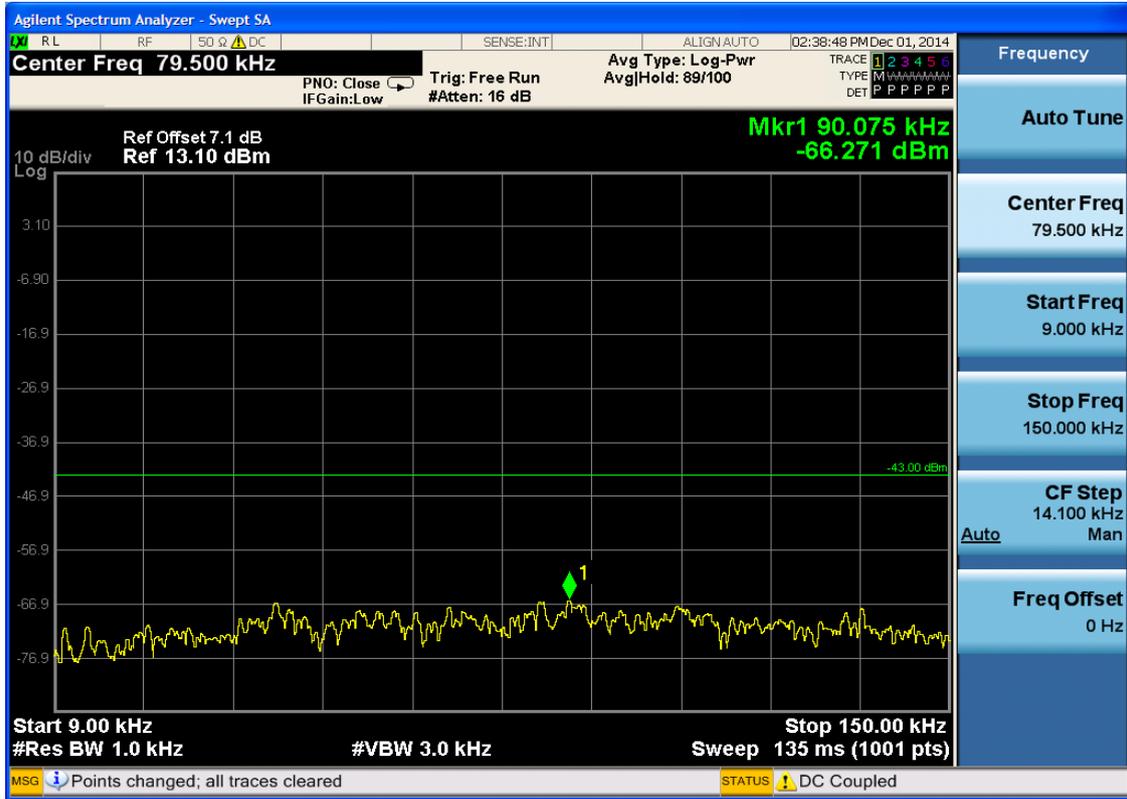


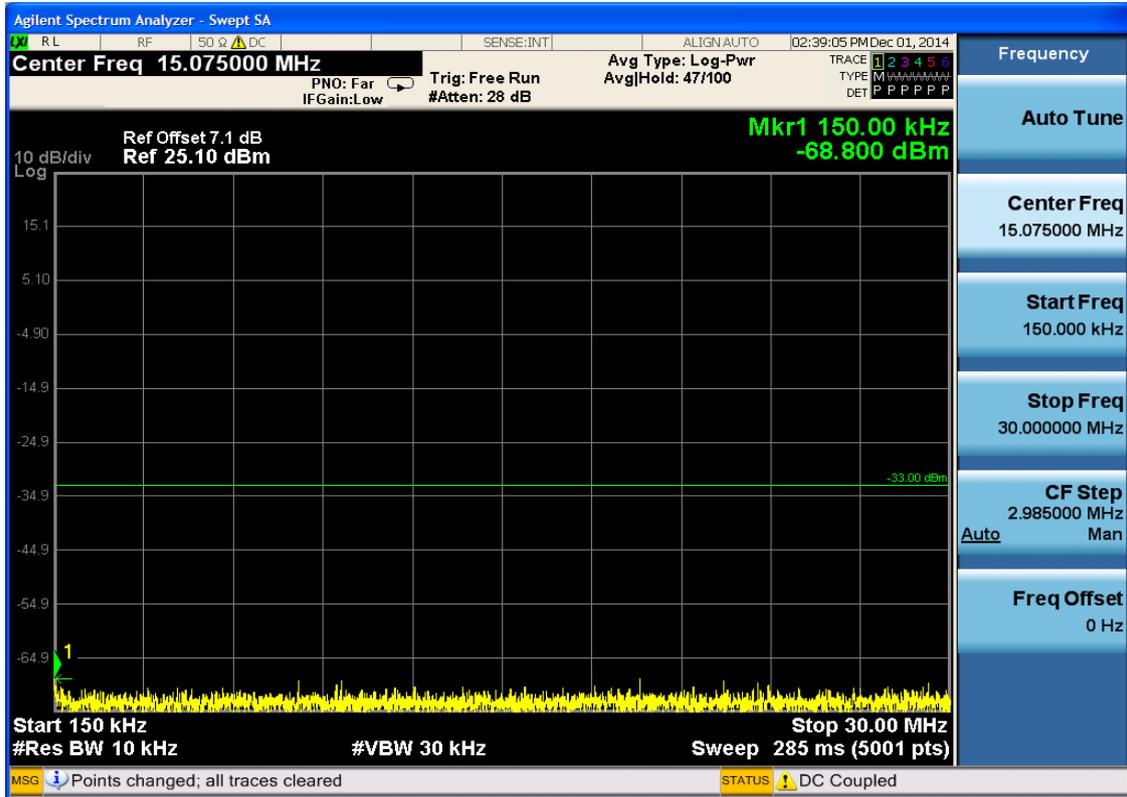


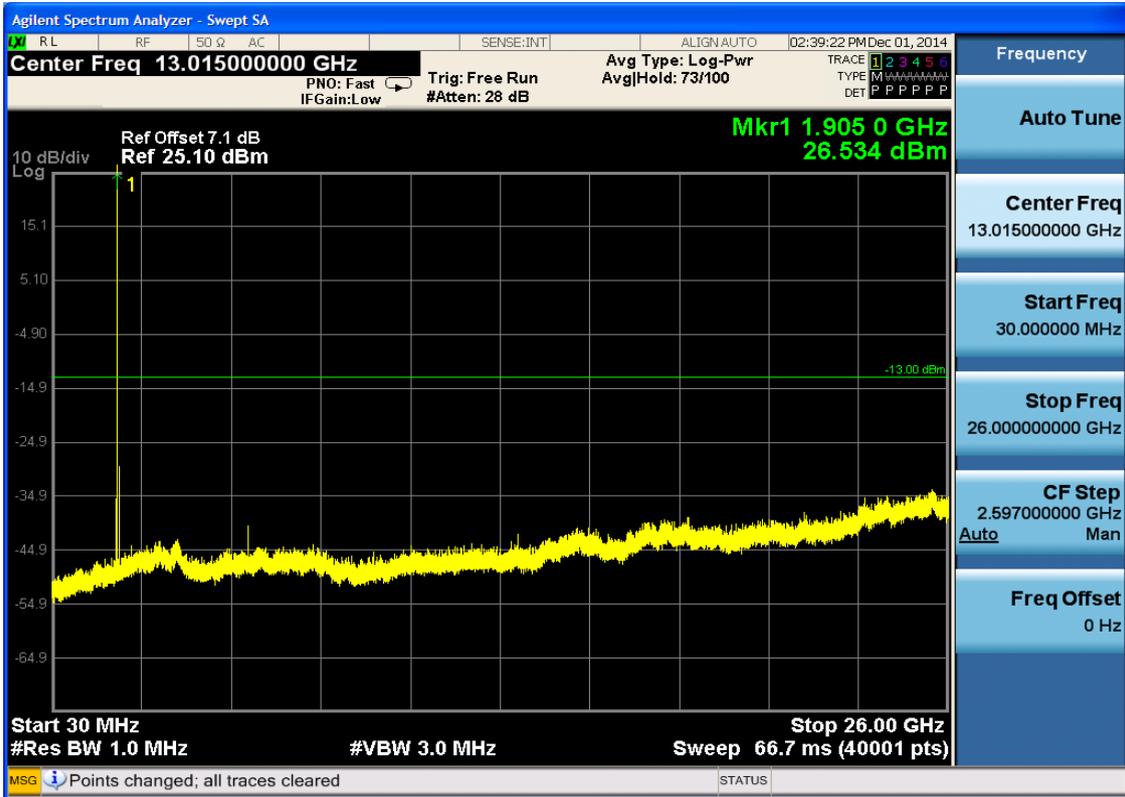


6.1.7.1.1.3 Test Channel = HCH

6.1.7.1.1.3.1 Test RB = RB1#0





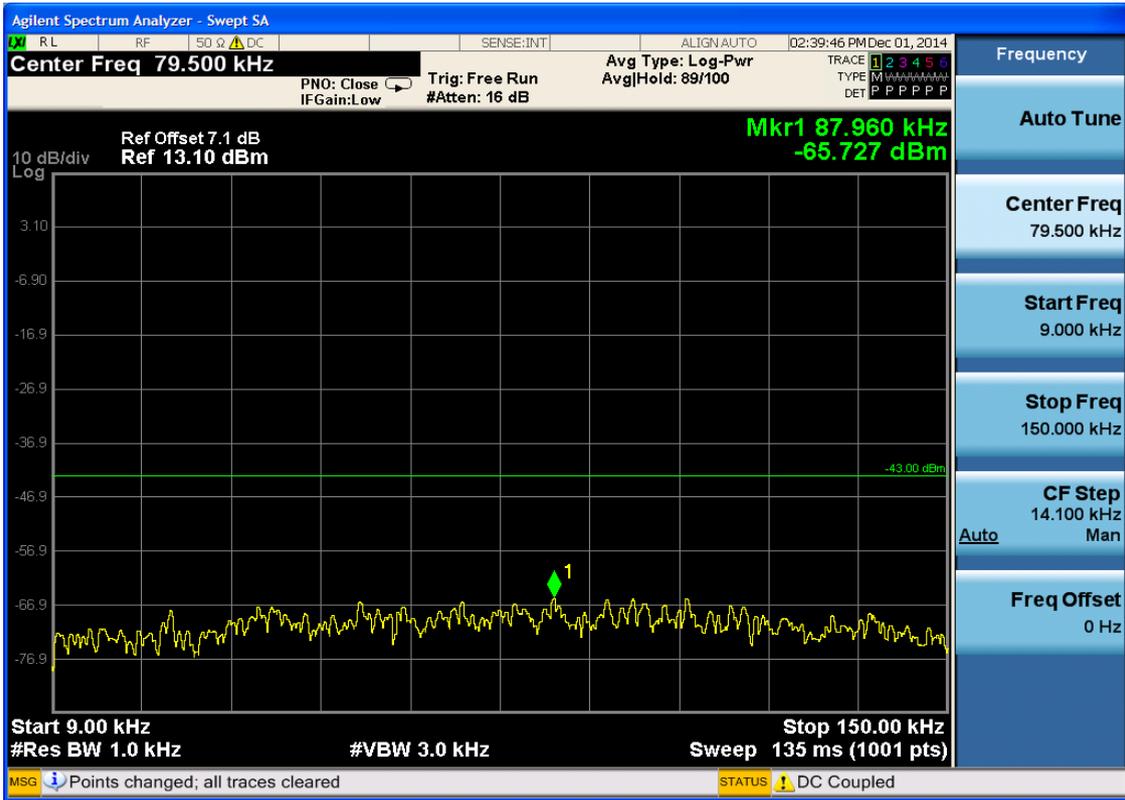


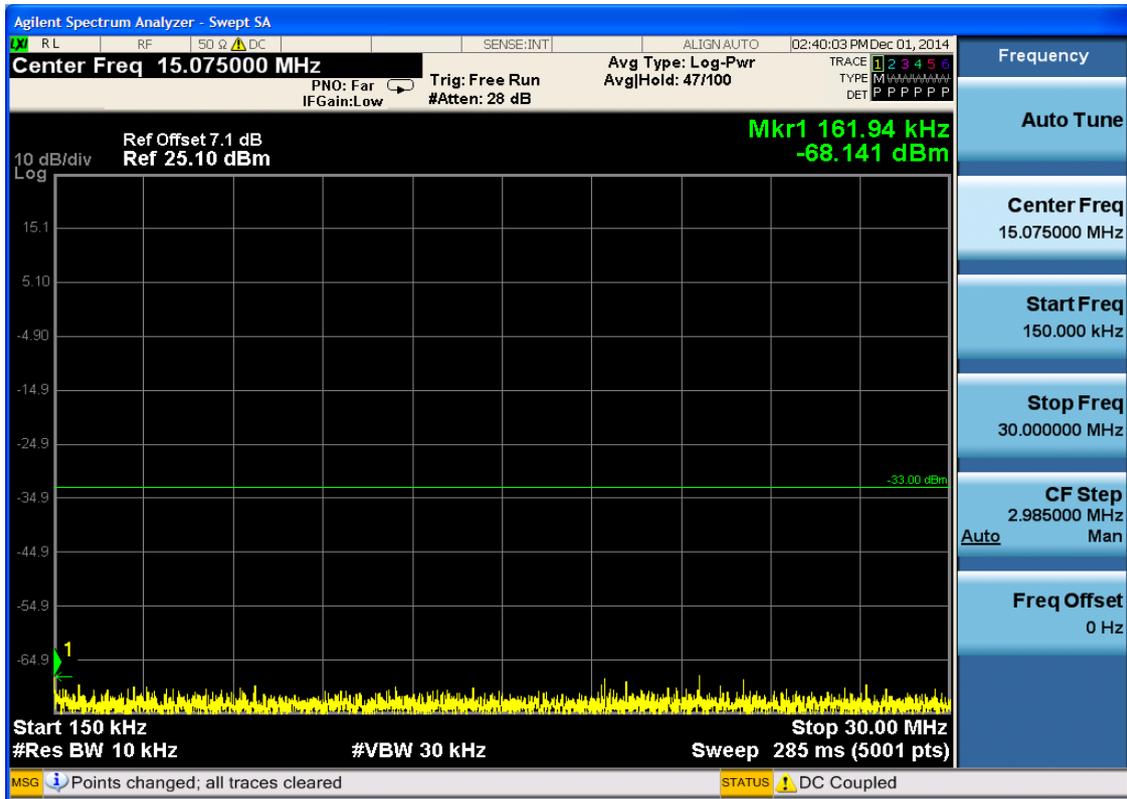


6.1.7.1.2 Test Bandwidth = 10

6.1.7.1.2.1 Test Channel = LCH

6.1.7.1.2.1.1 Test RB = RB1#0



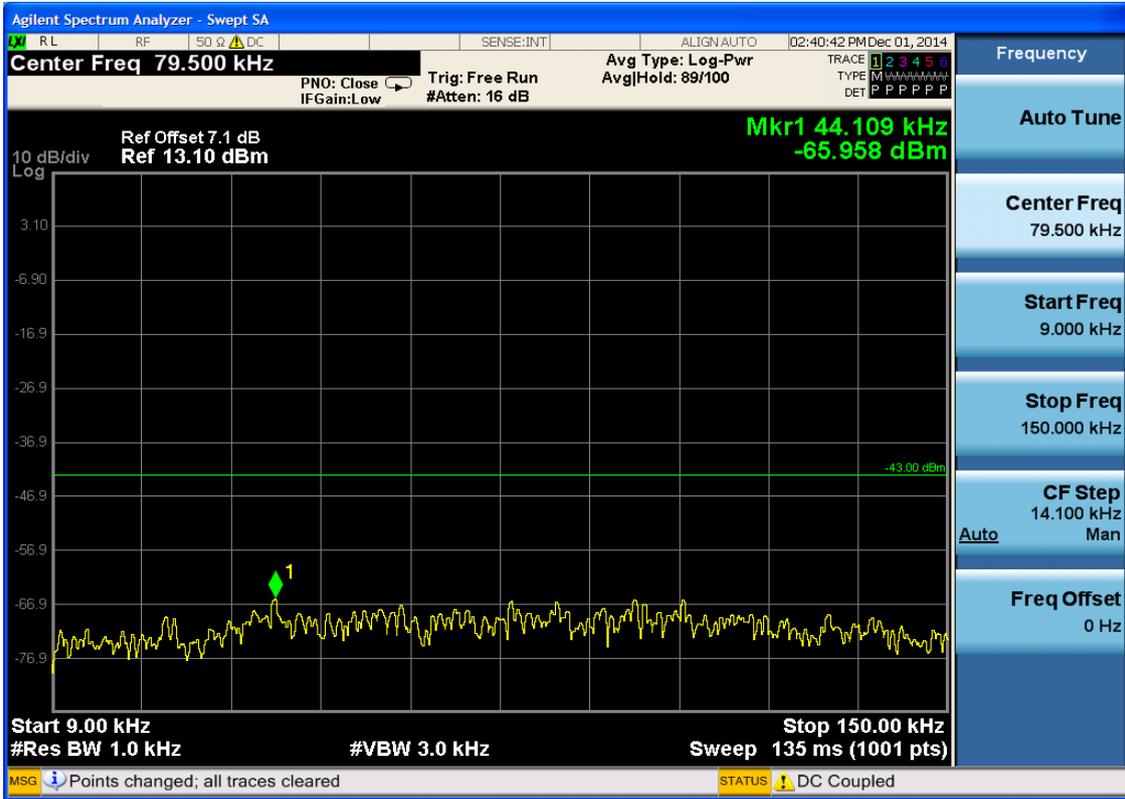


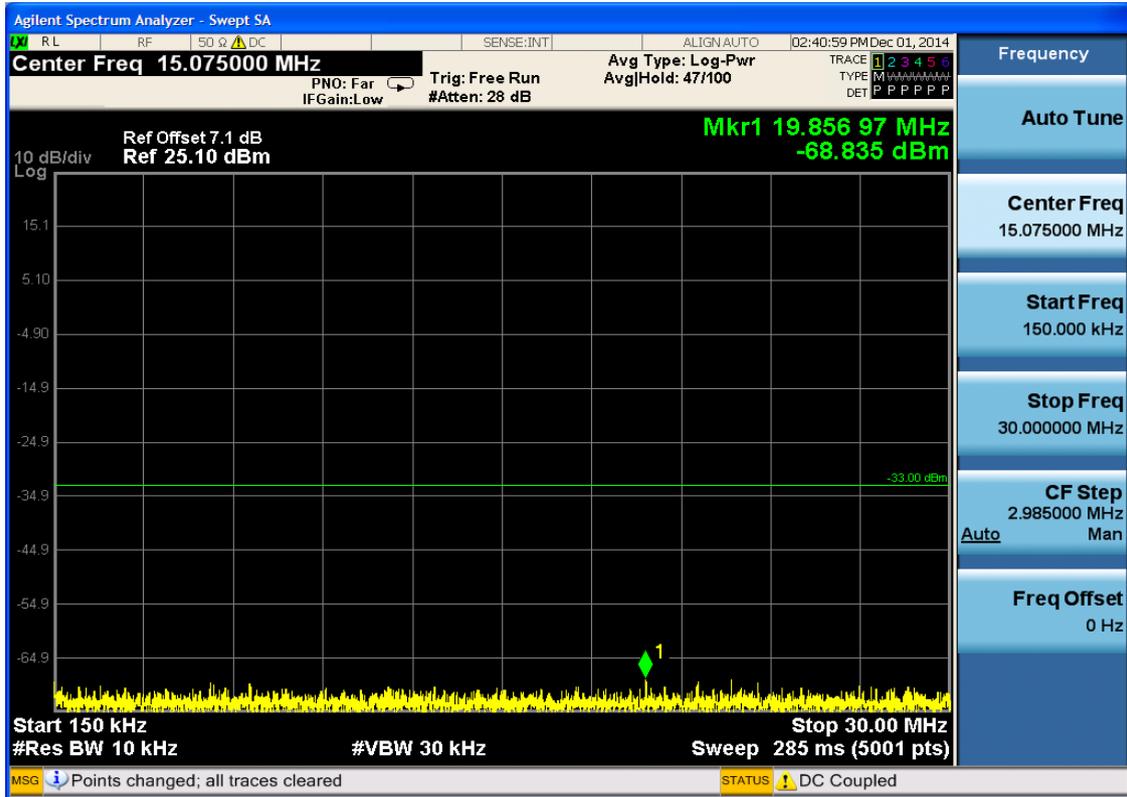


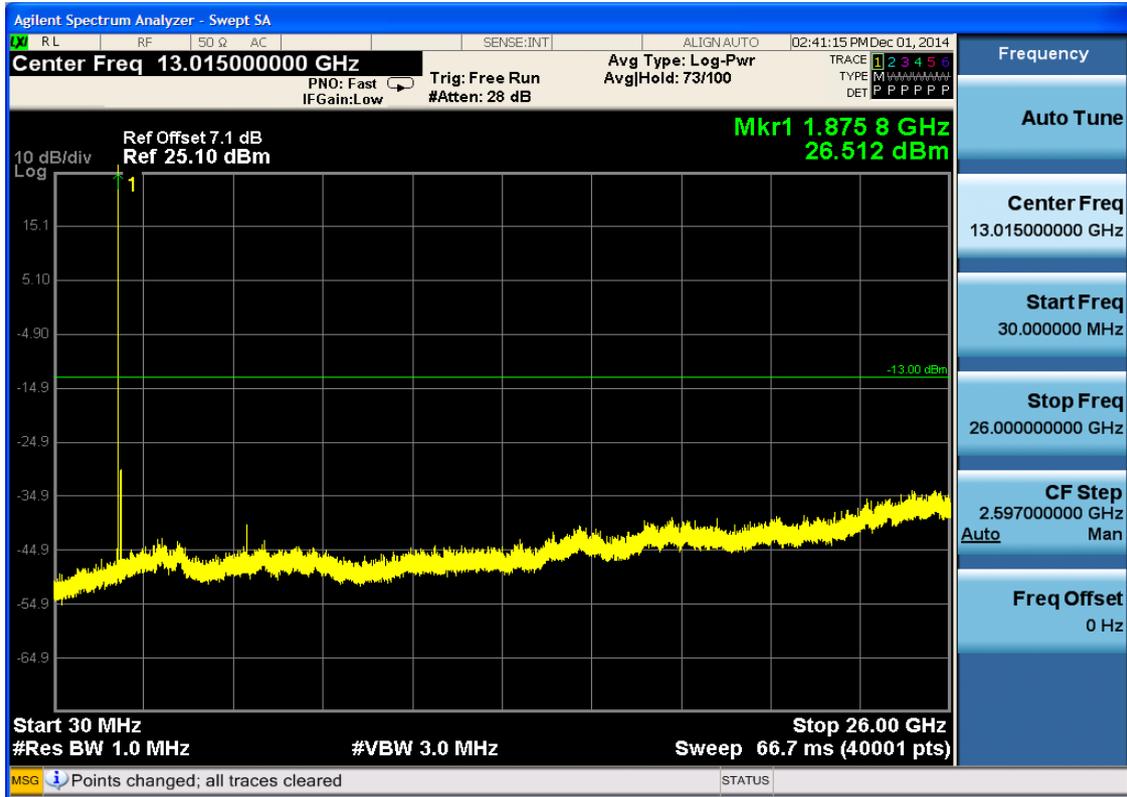


6.1.7.1.2.2 Test Channel = MCH

6.1.7.1.2.2.1 Test RB = RB1#0



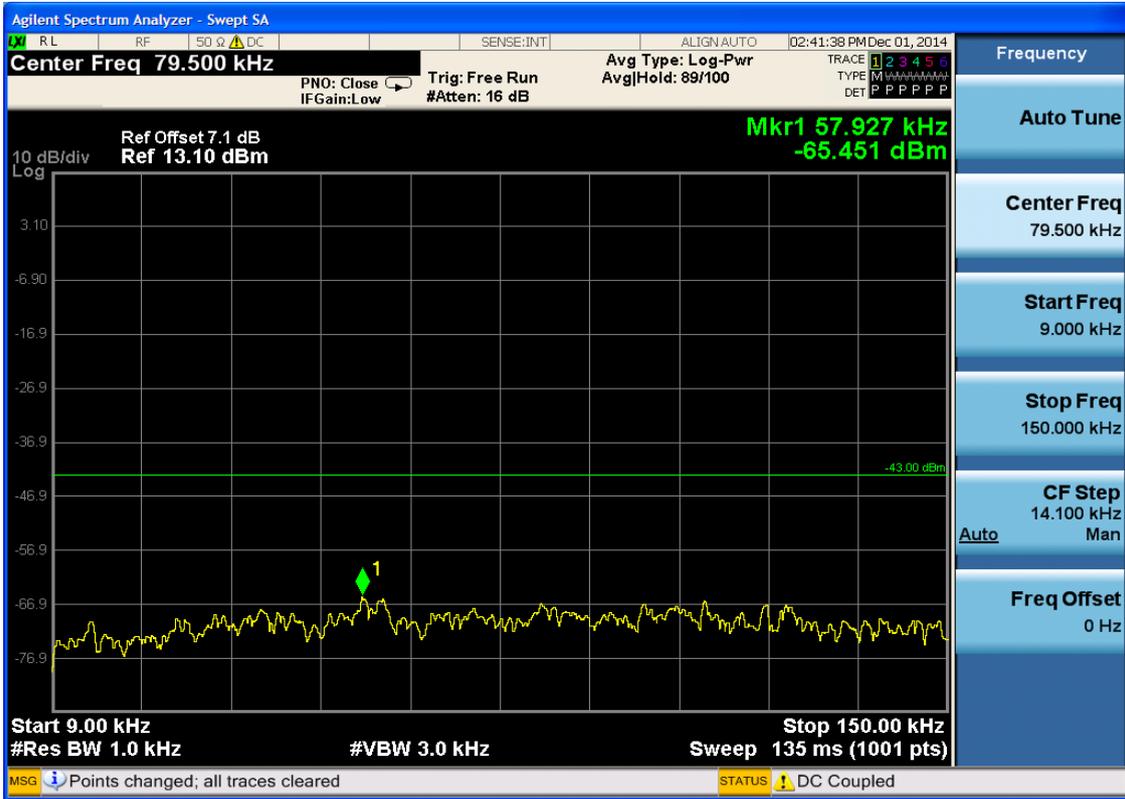


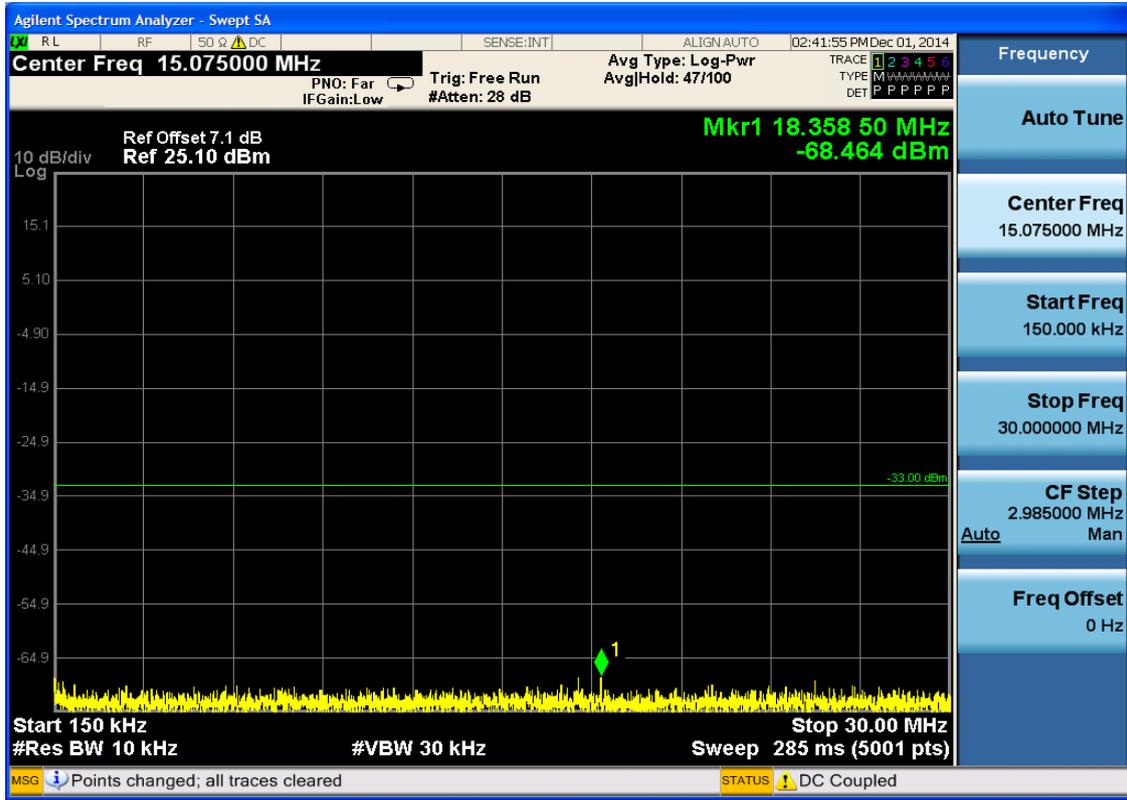


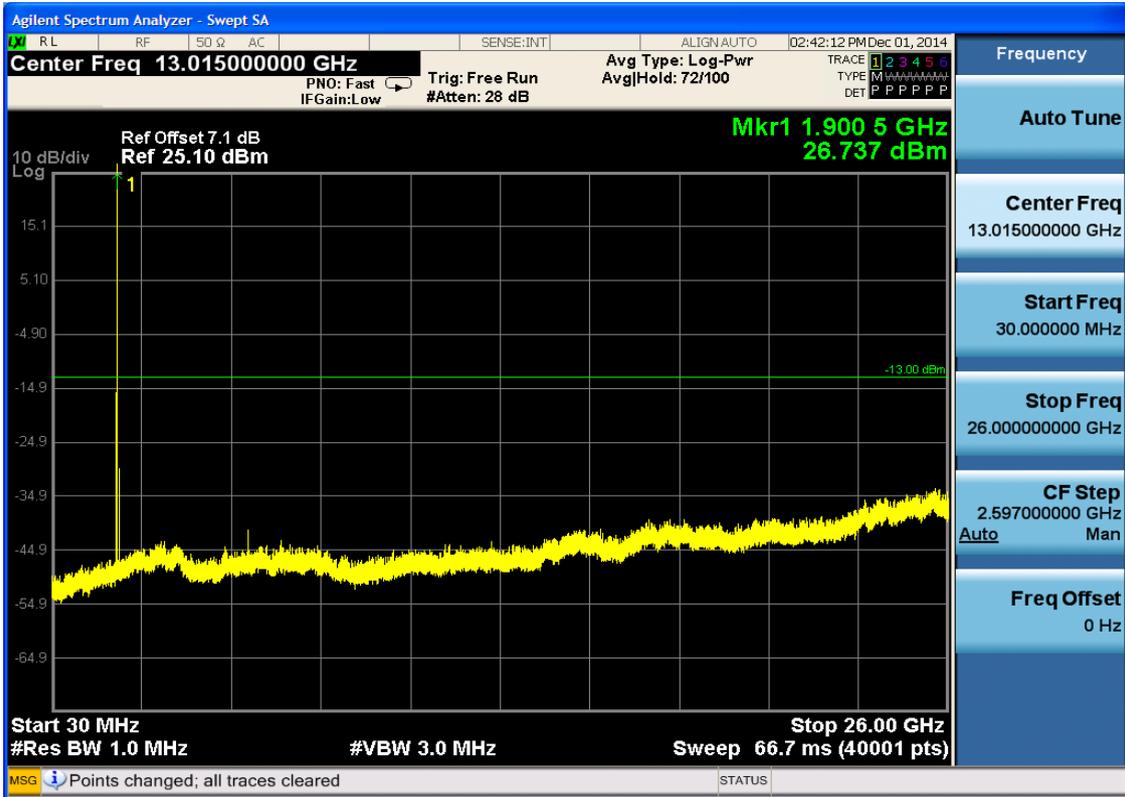


6.1.7.1.2.3 Test Channel = HCH

6.1.7.1.2.3.1 Test RB = RB1#0







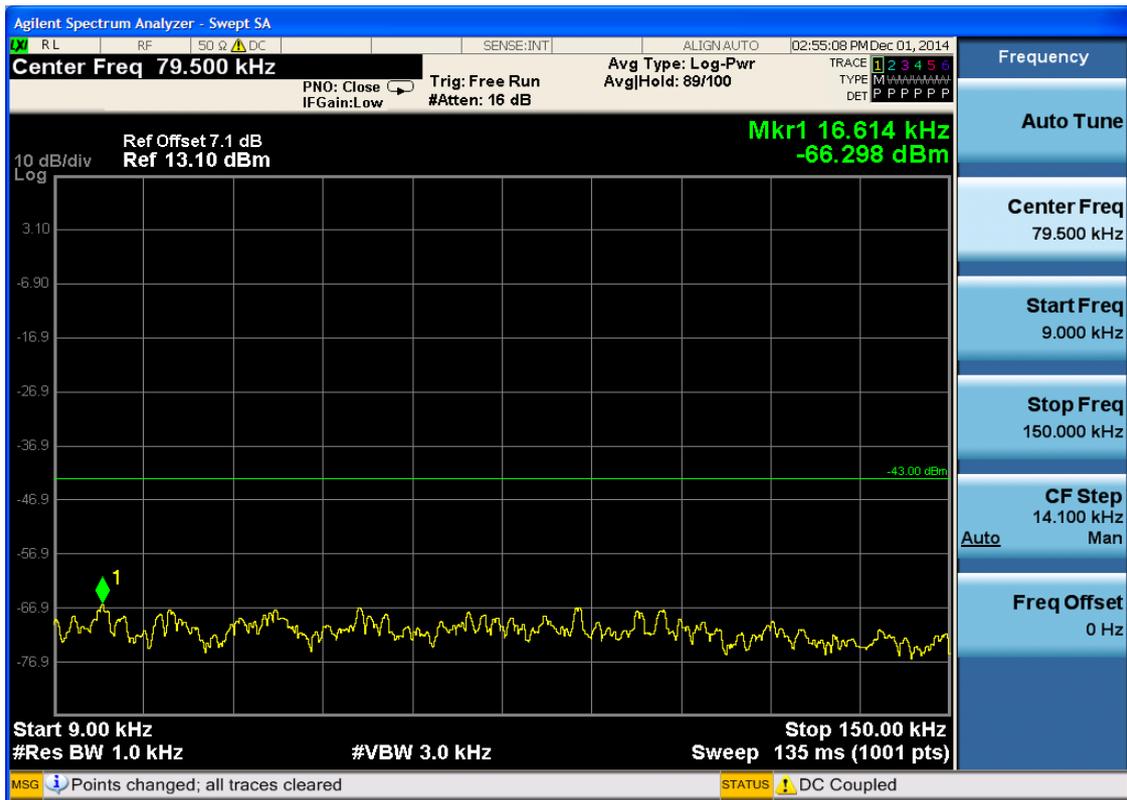


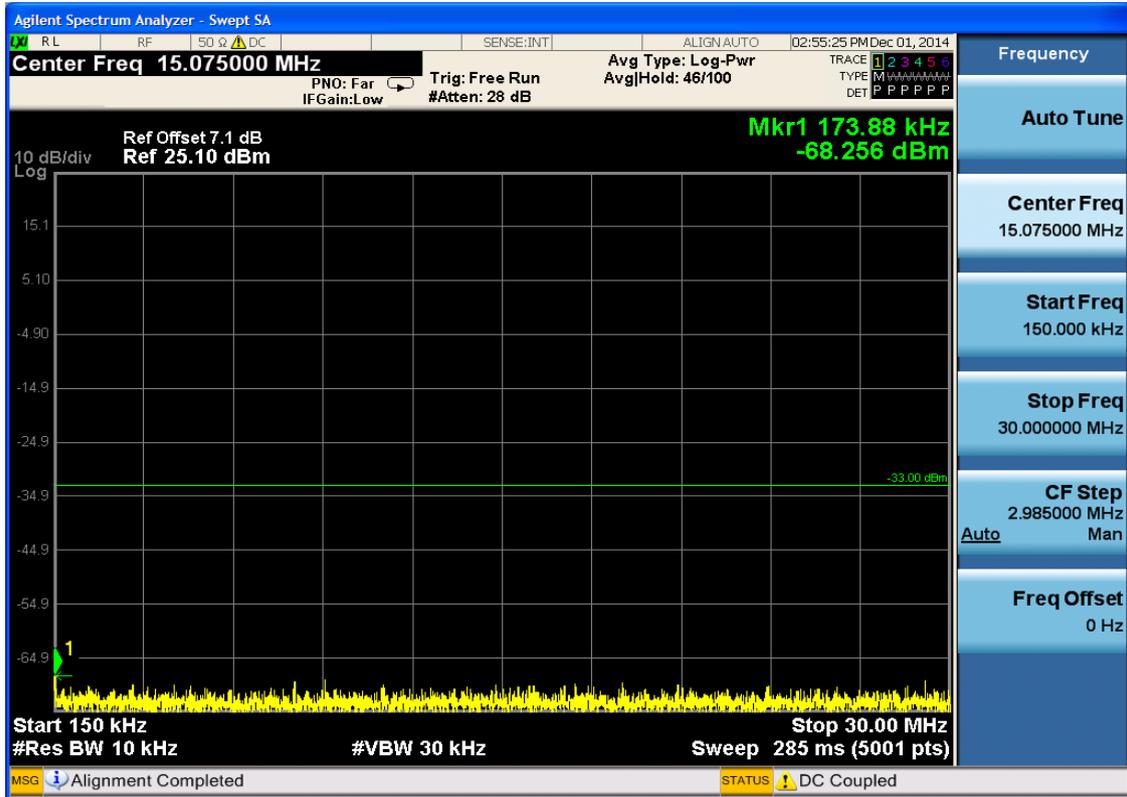
6.1.7.2 Test Mode = LTE/TM2

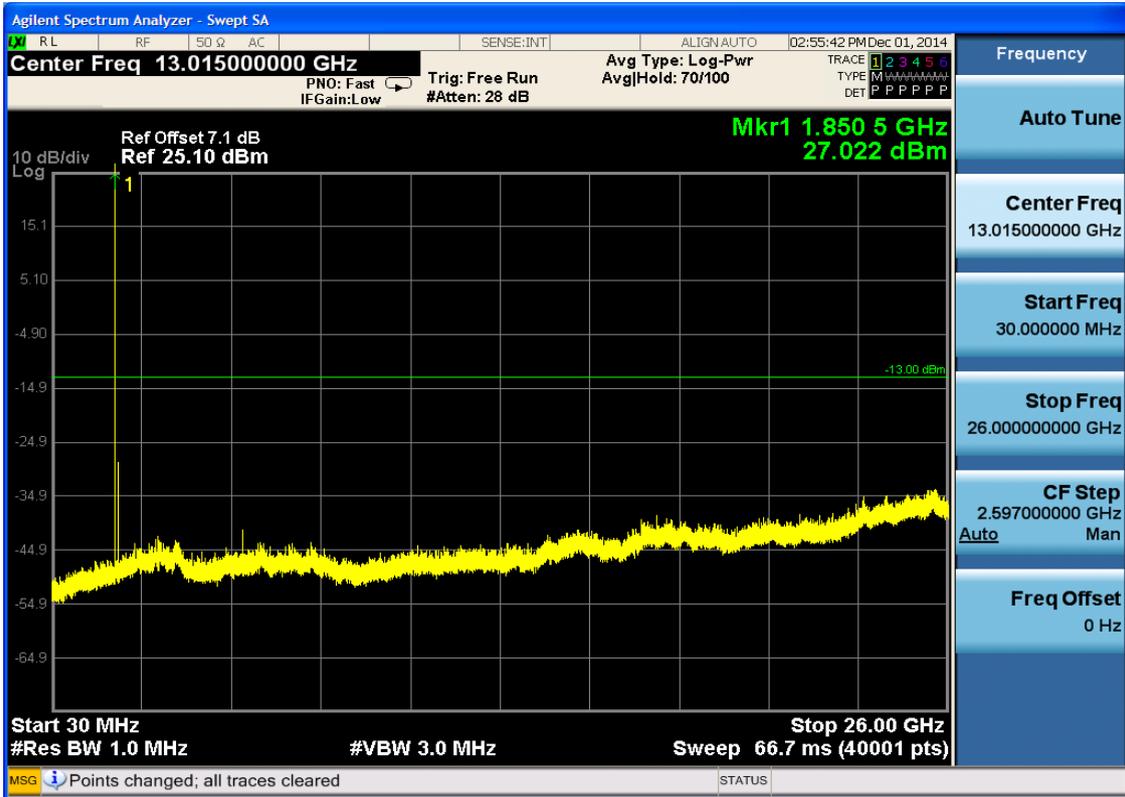
6.1.7.2.1 Test Bandwidth = 5

6.1.7.2.1.1 Test Channel = LCH

6.1.7.2.1.1.1 Test RB = RB1#0



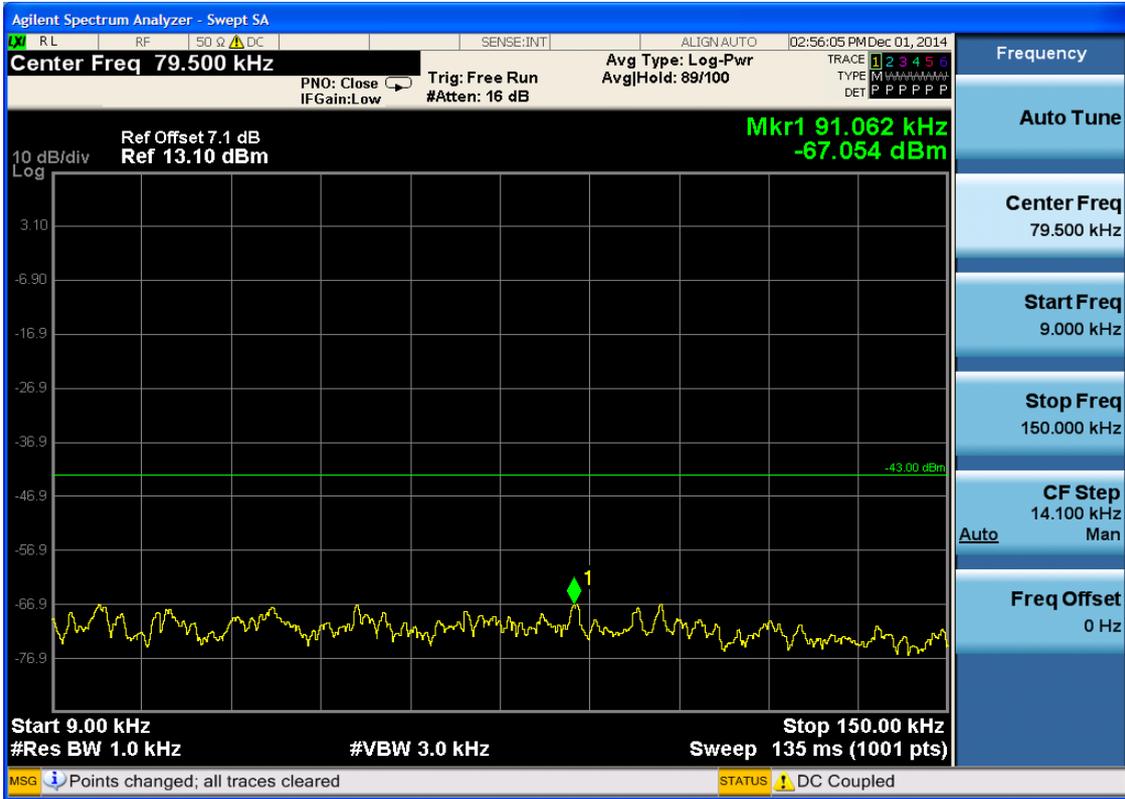


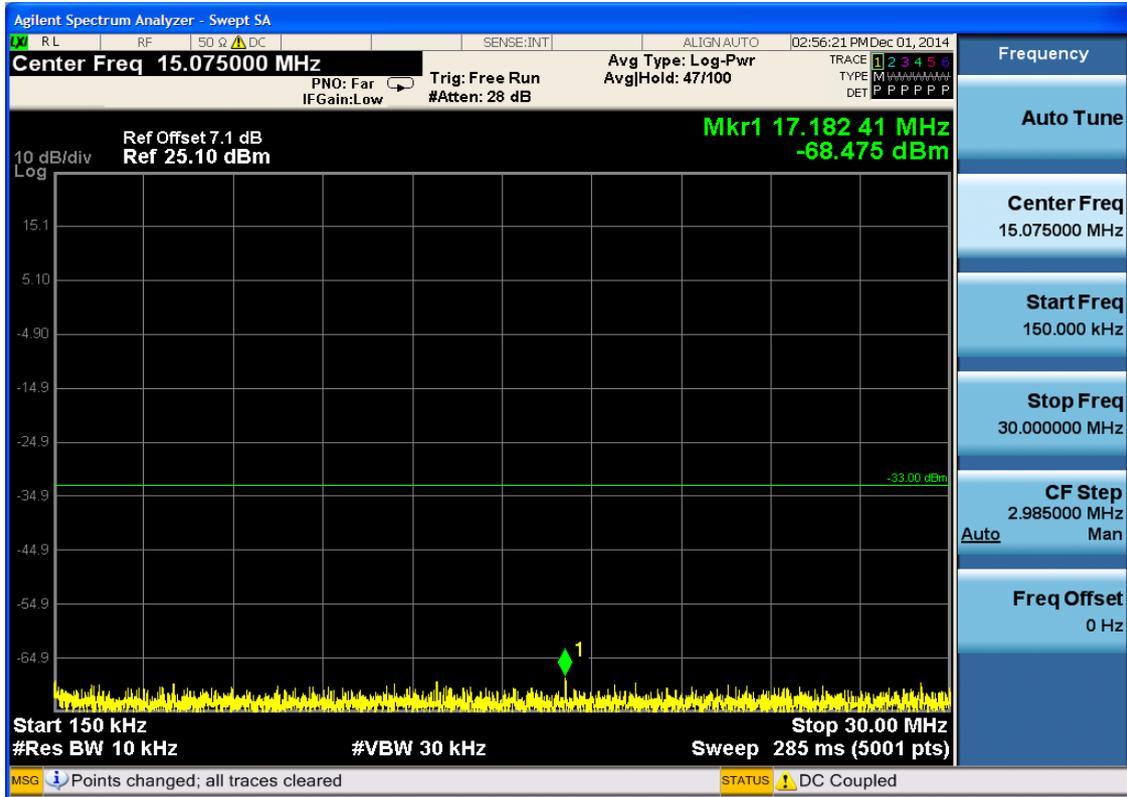


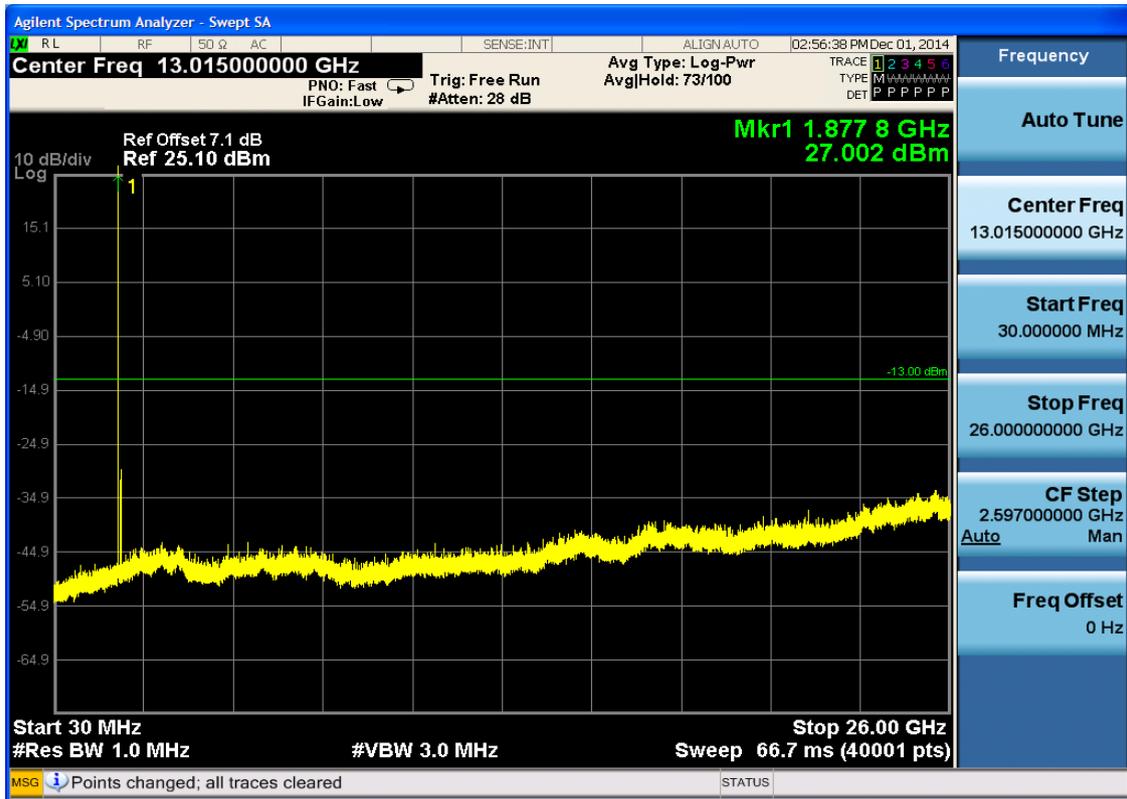


6.1.7.2.1.2 Test Channel = MCH

6.1.7.2.1.2.1 Test RB = RB1#0



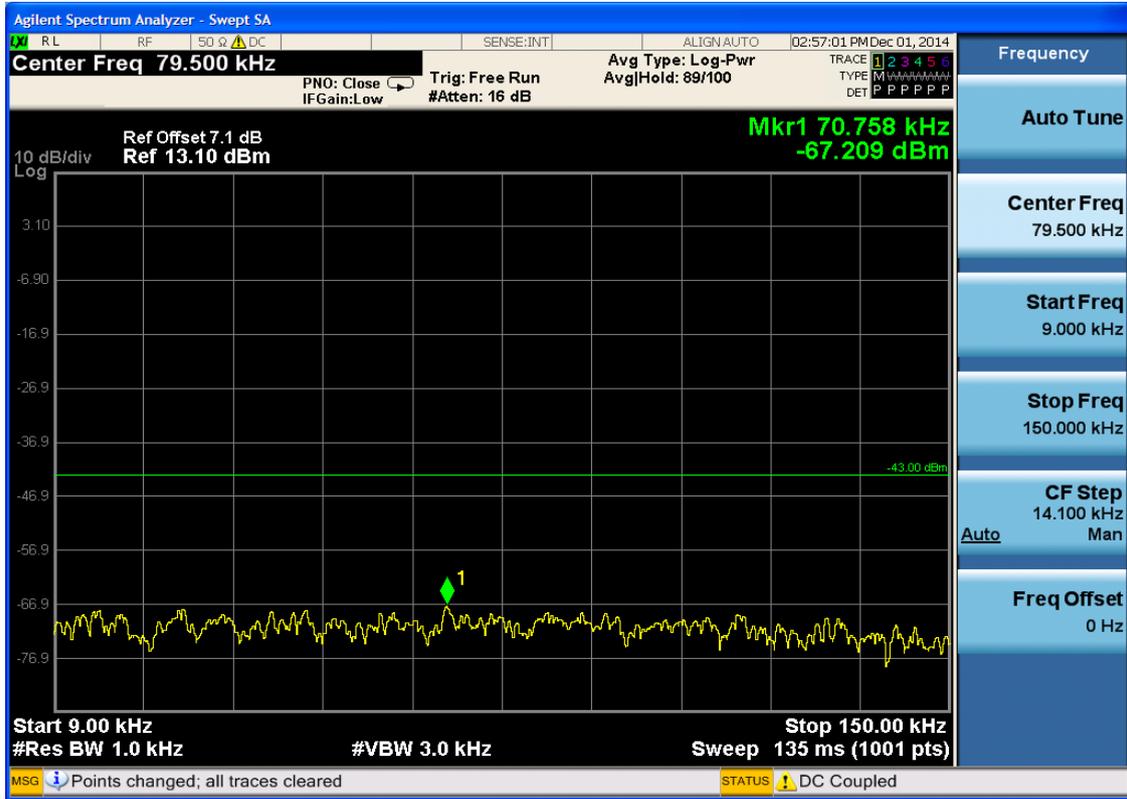


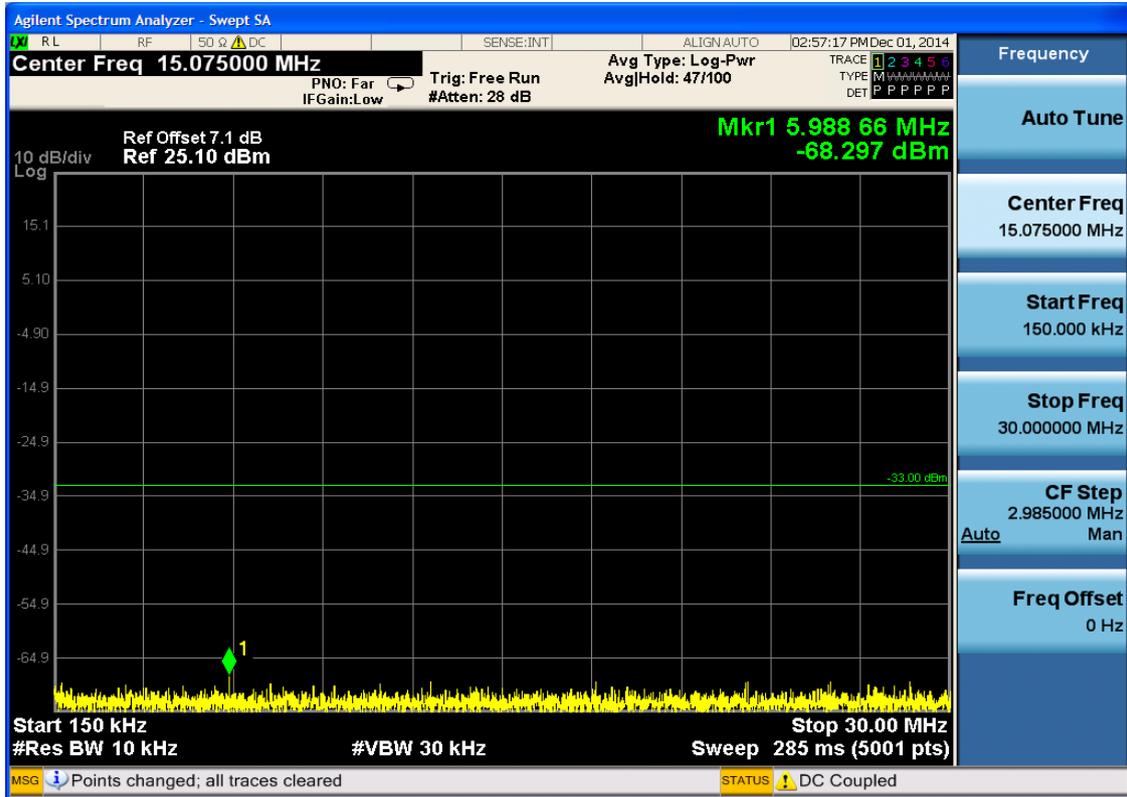


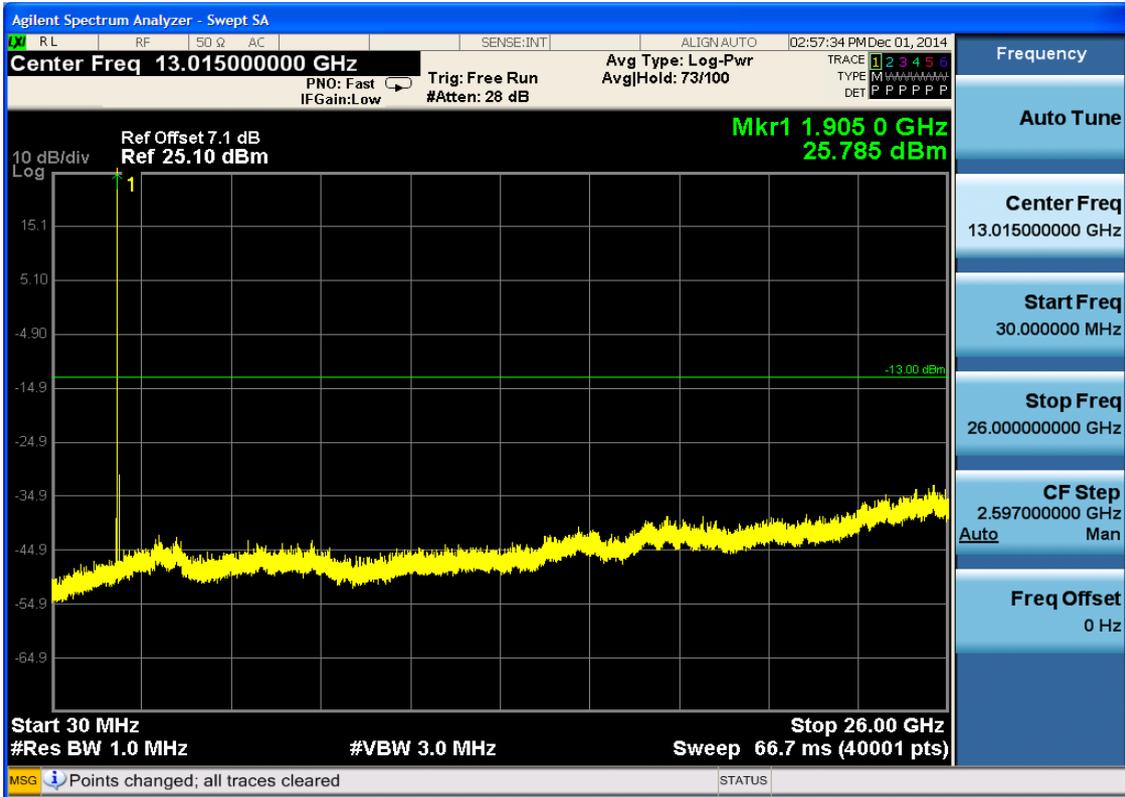


6.1.7.2.1.3 Test Channel = HCH

6.1.7.2.1.3.1 Test RB = RB1#0





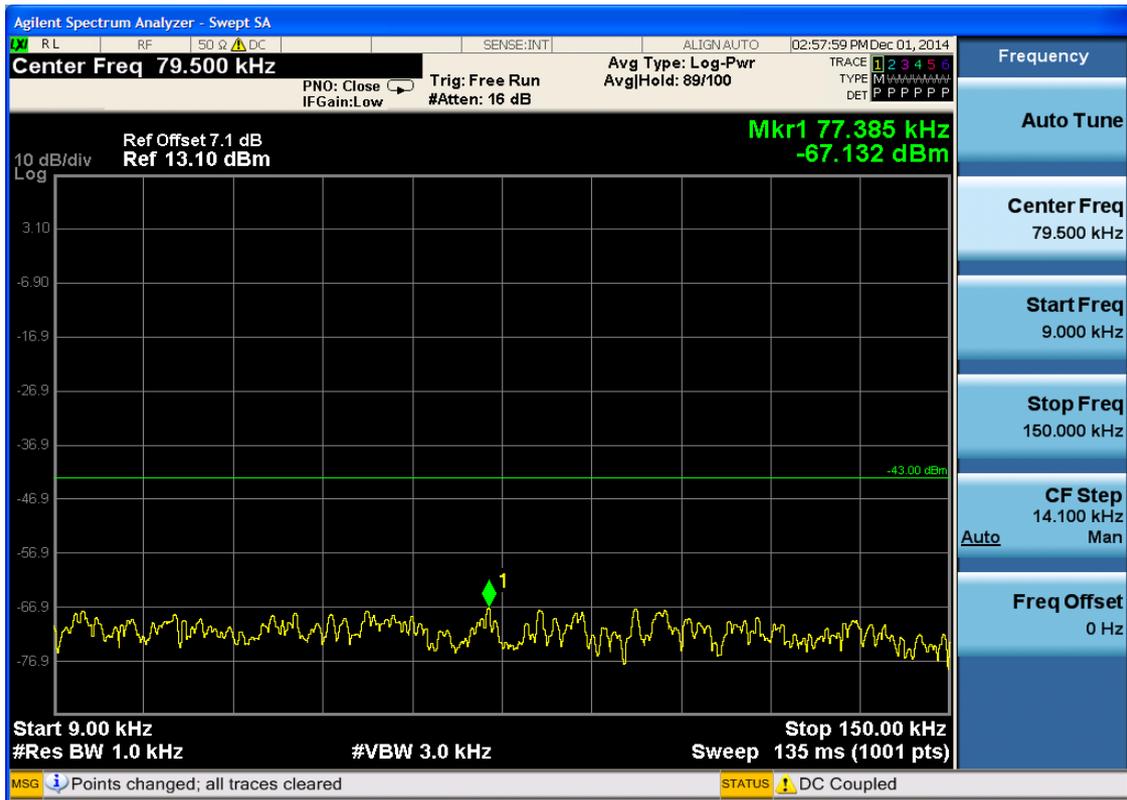


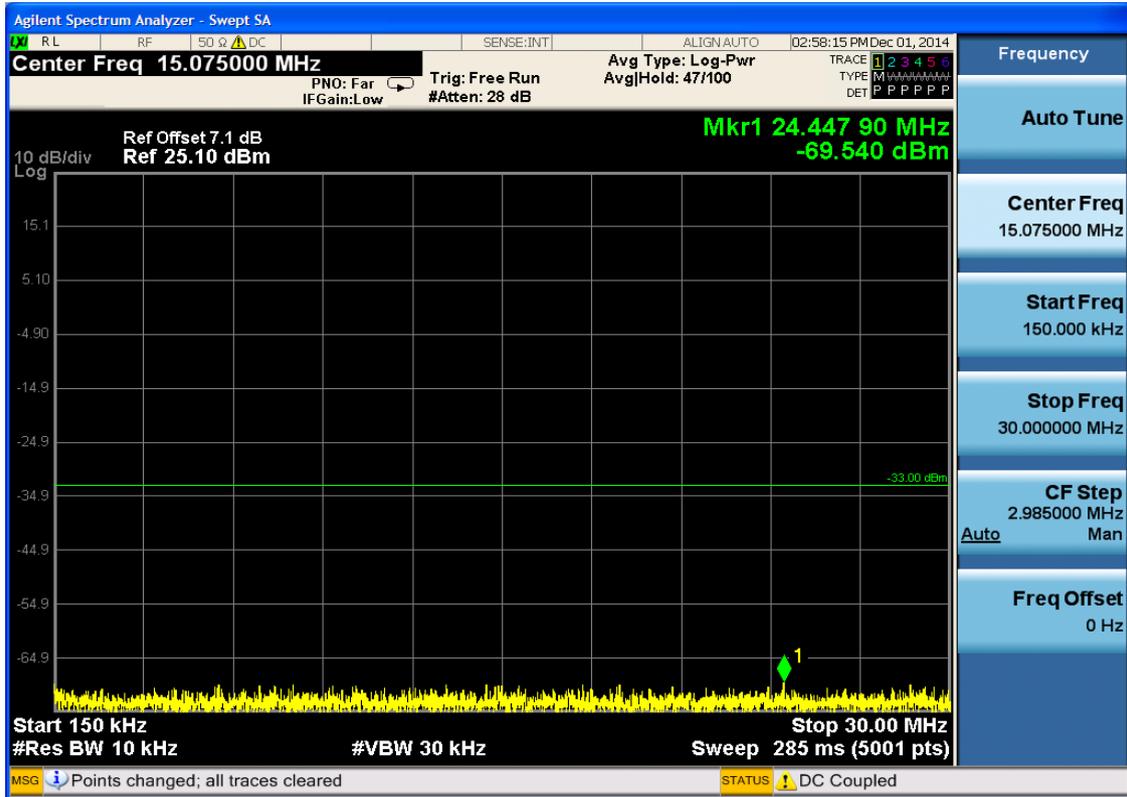


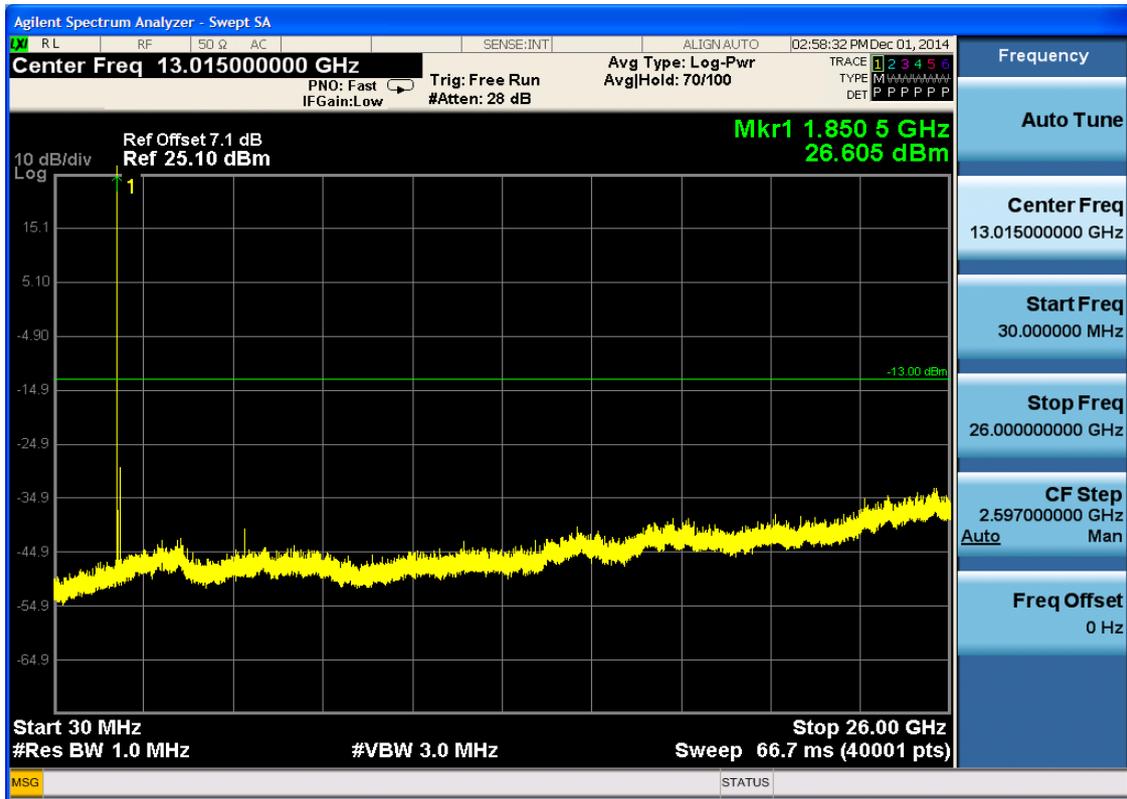
6.1.7.2.2 Test Bandwidth = 10

6.1.7.2.2.1 Test Channel = LCH

6.1.7.2.2.1.1 Test RB = RB1#0



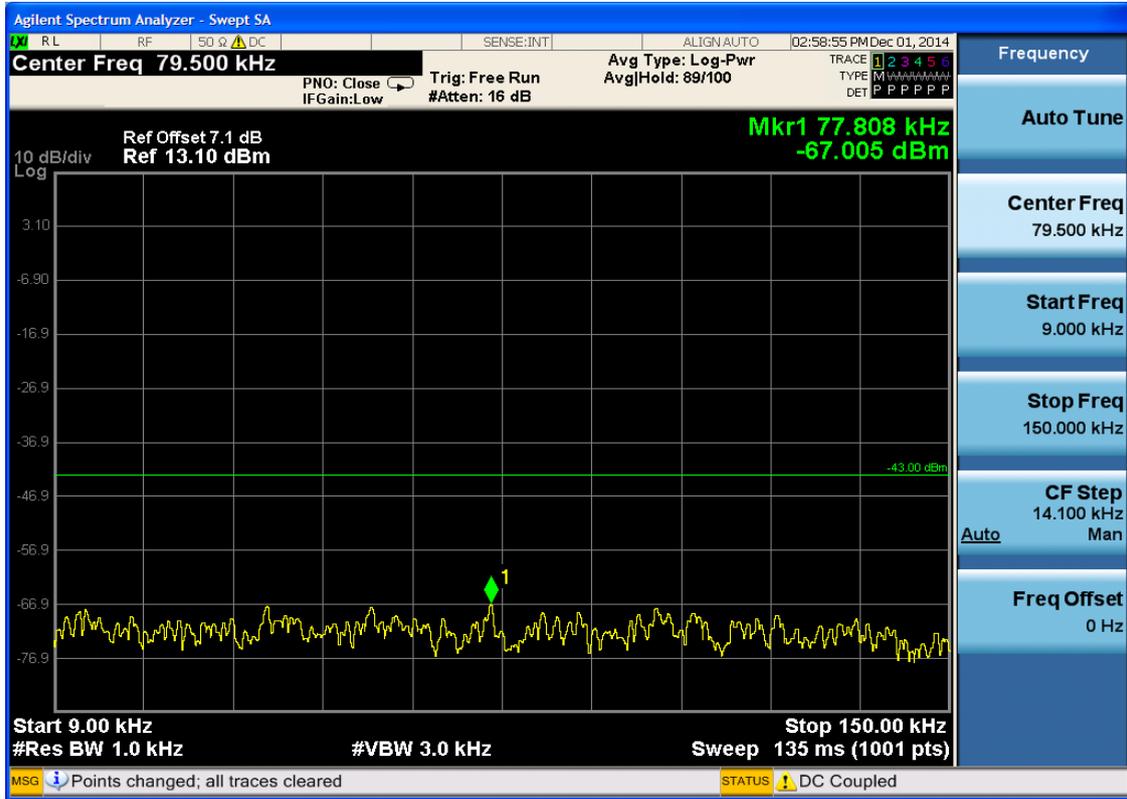




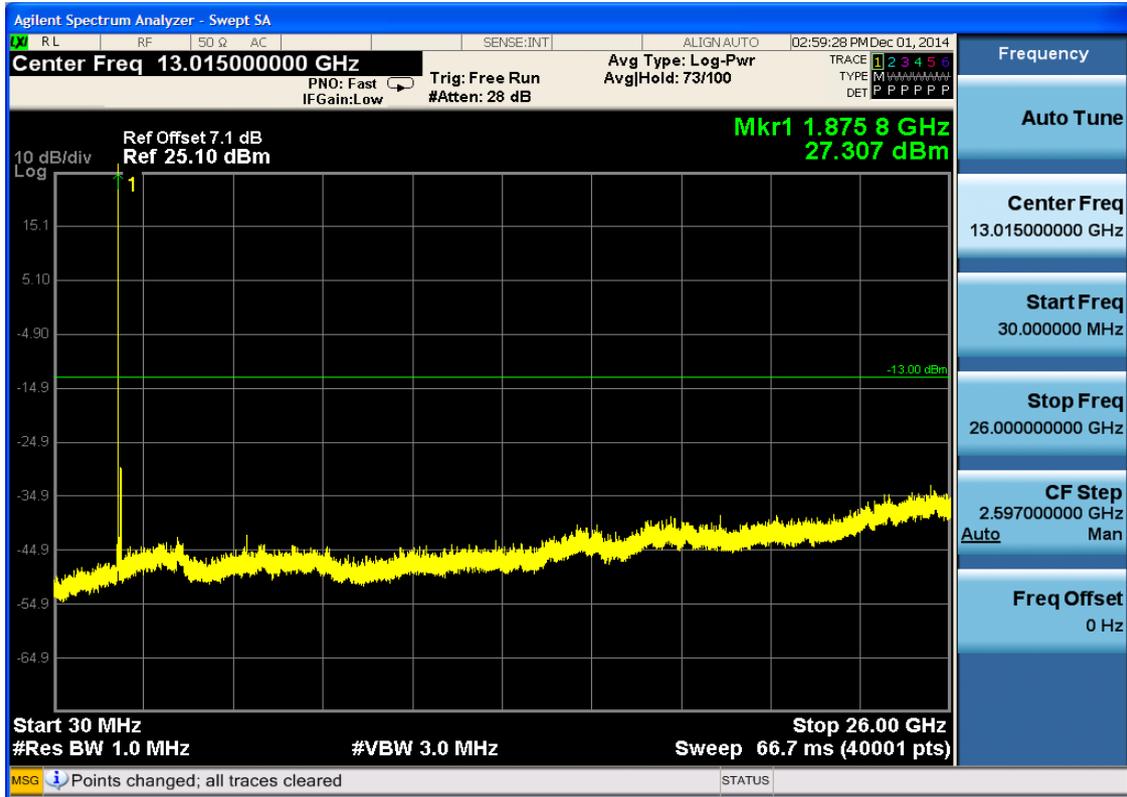


6.1.7.2.2.2 Test Channel = MCH

6.1.7.2.2.2.1 Test RB = RB1#0



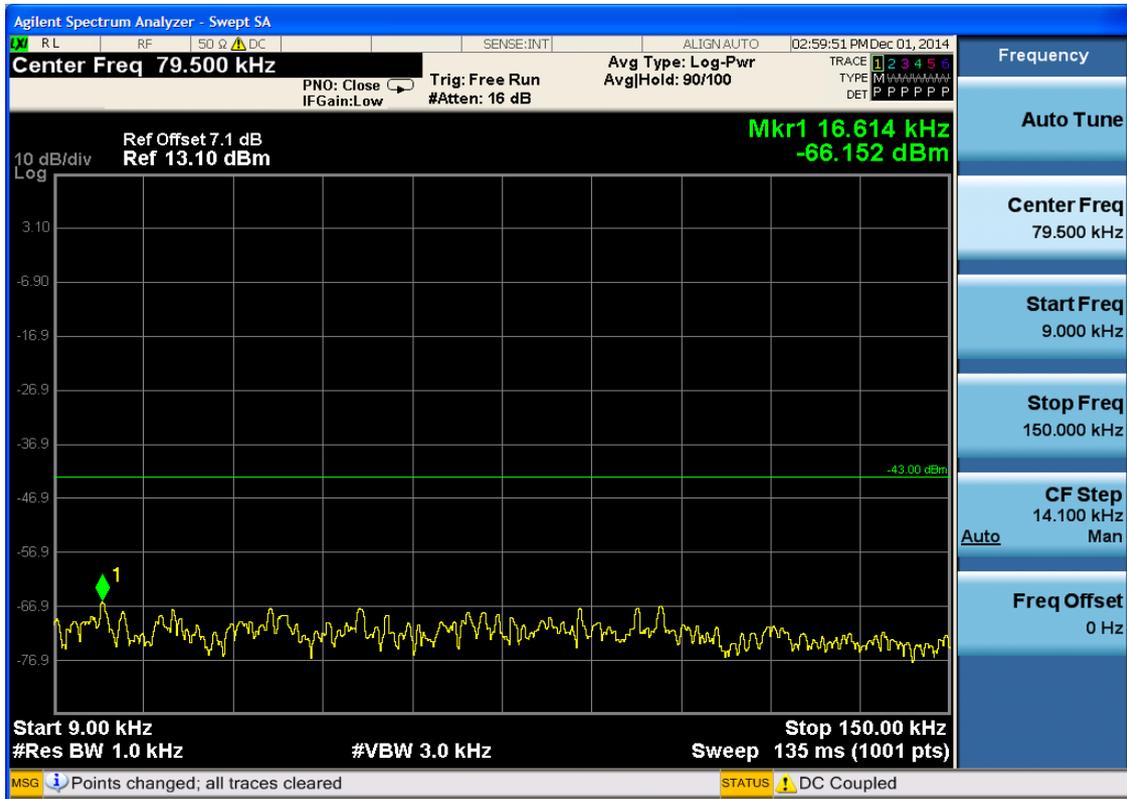


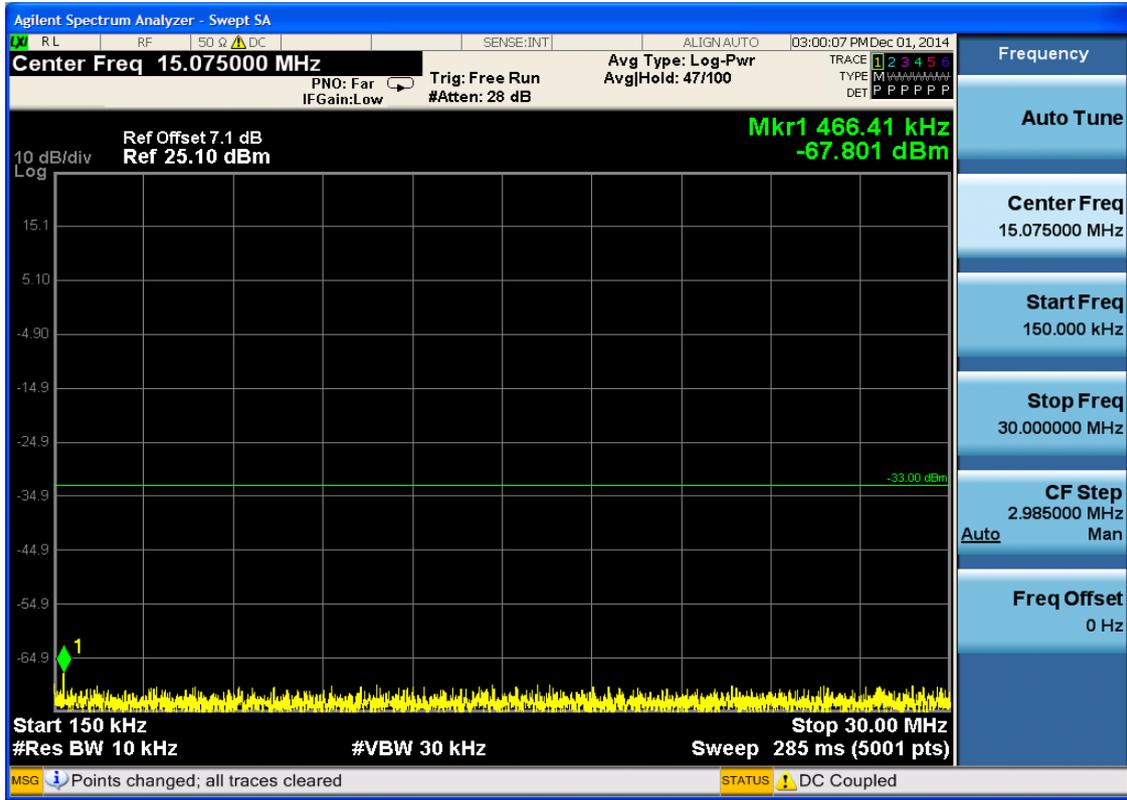


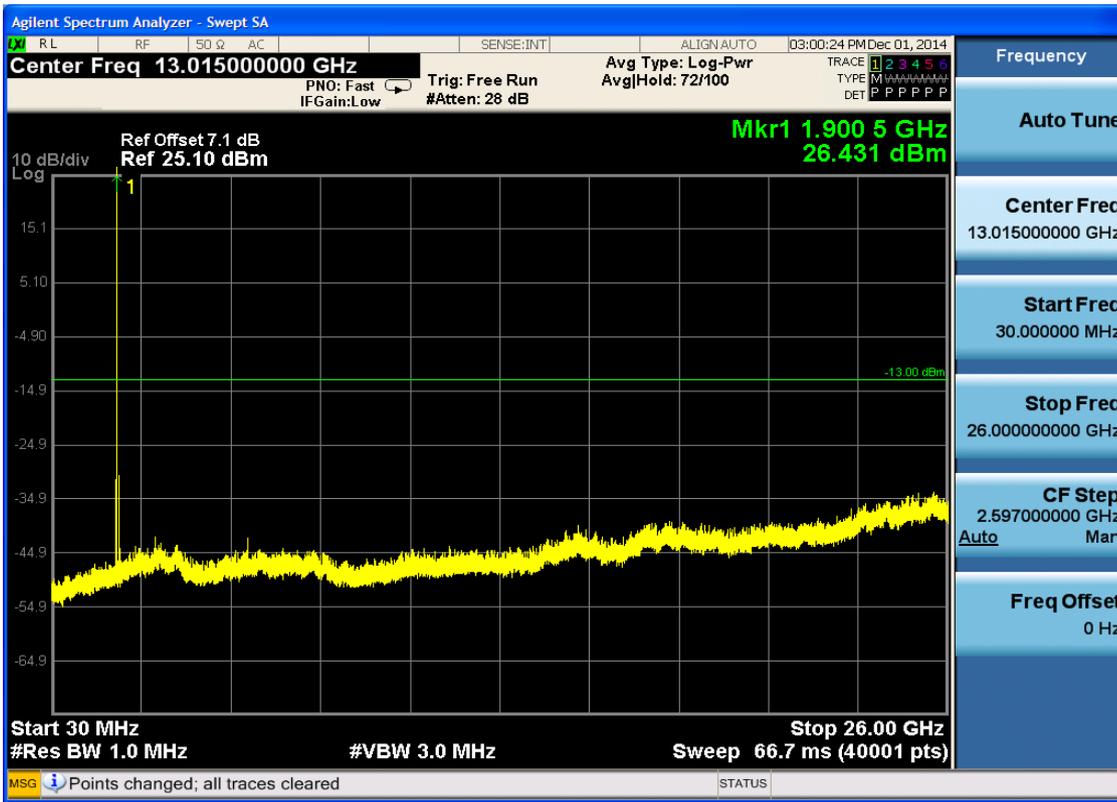


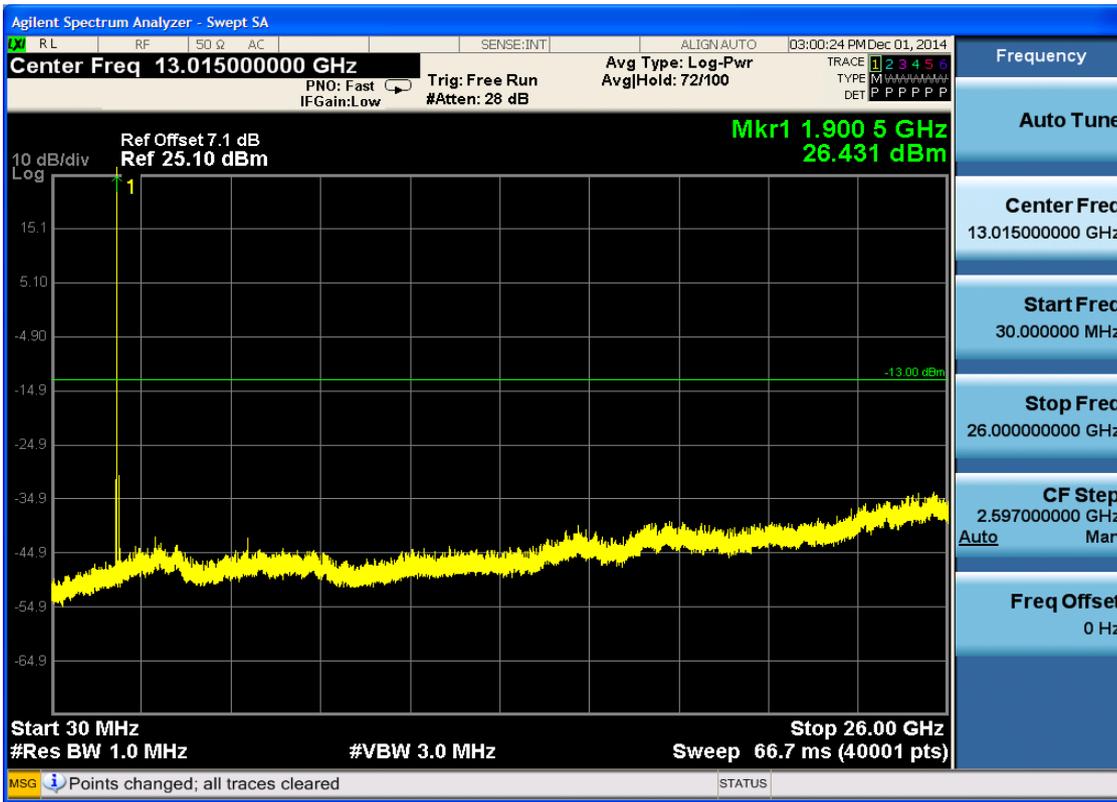
6.1.7.2.2.3 Test Channel = HCH

6.1.7.2.2.3.1 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

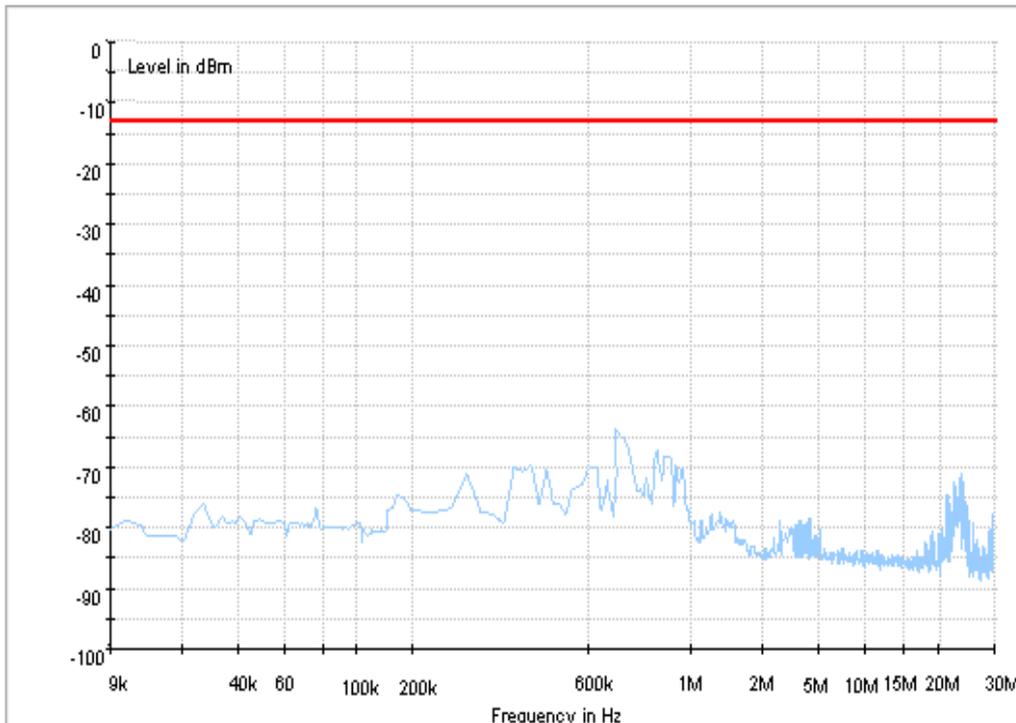
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

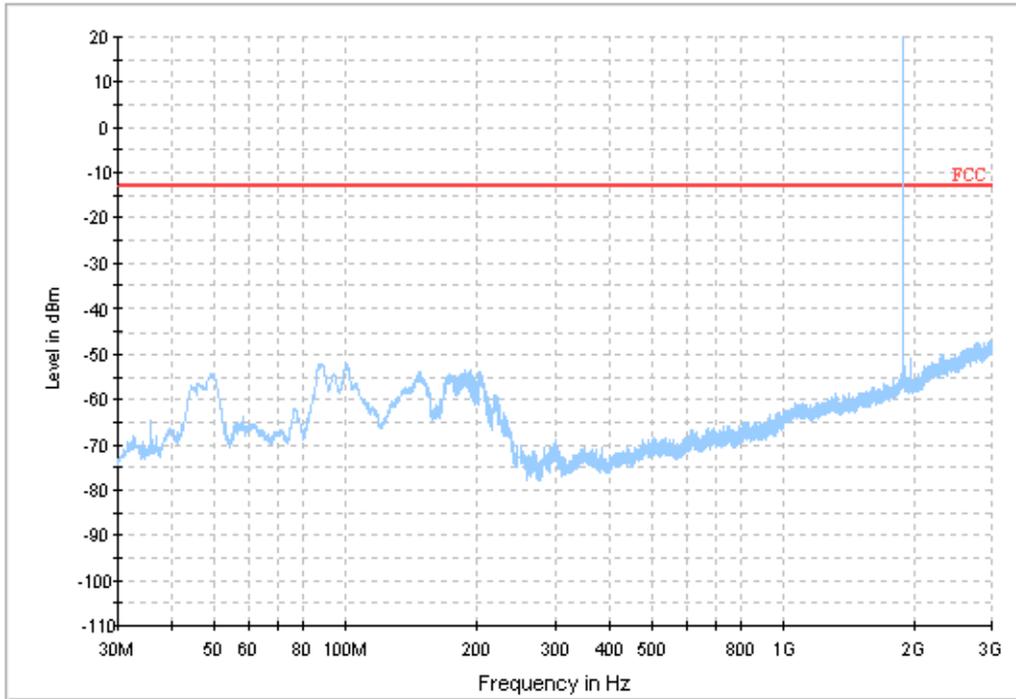
7.1 For LTE

7.1.1 Test Band = BAND2

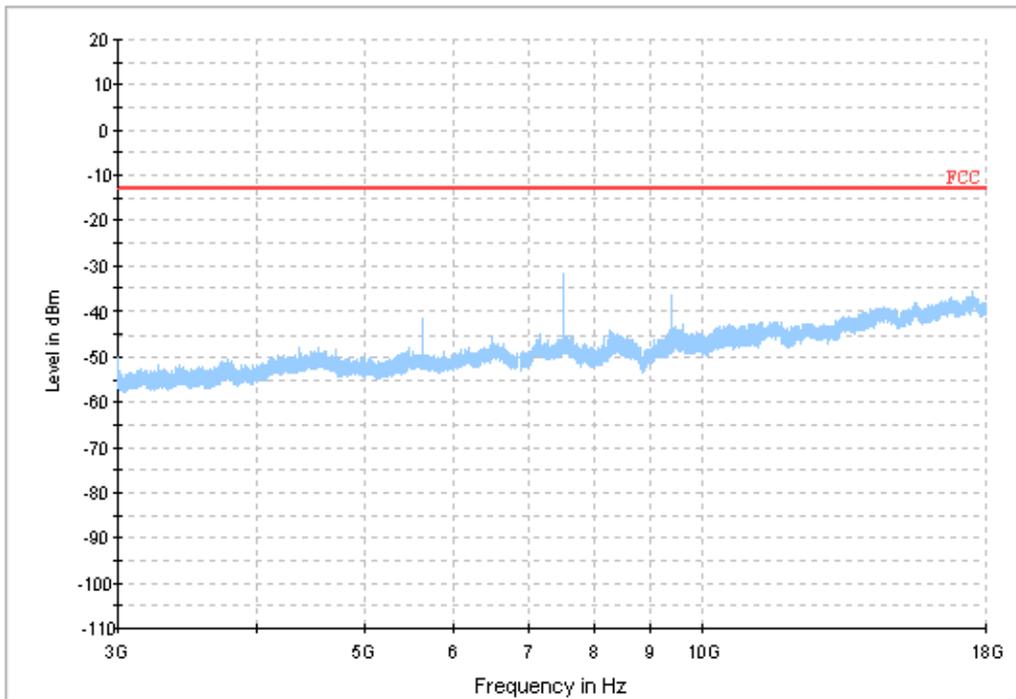
7.1.1.1 Test Bandwidth = 1.4

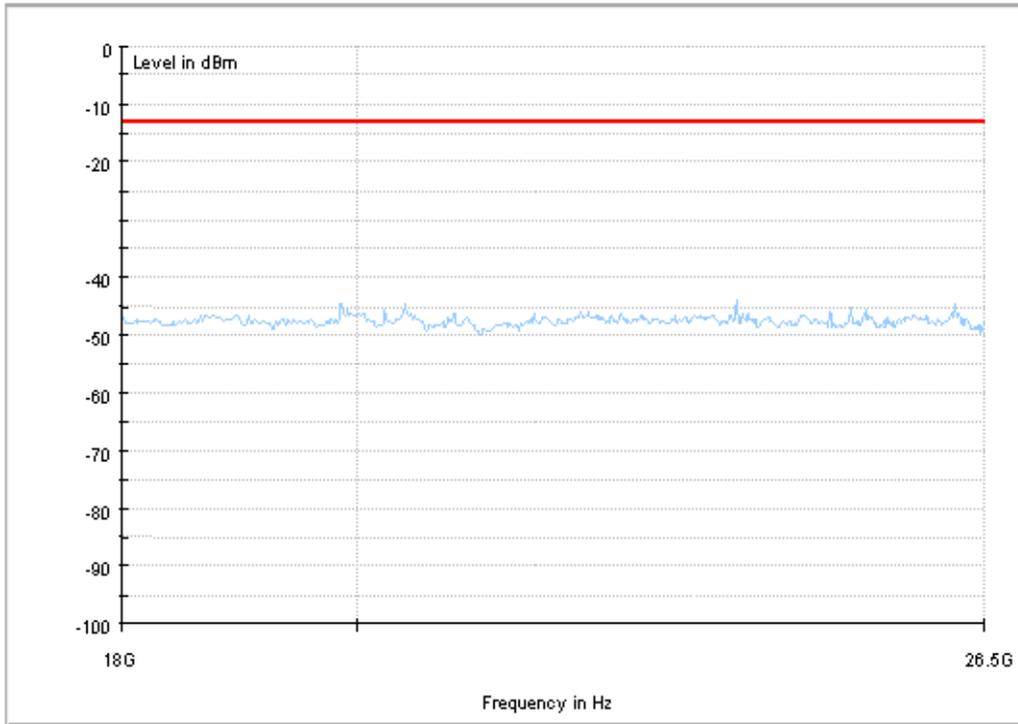


Copy of FCC PART24 LTE Band 2_L

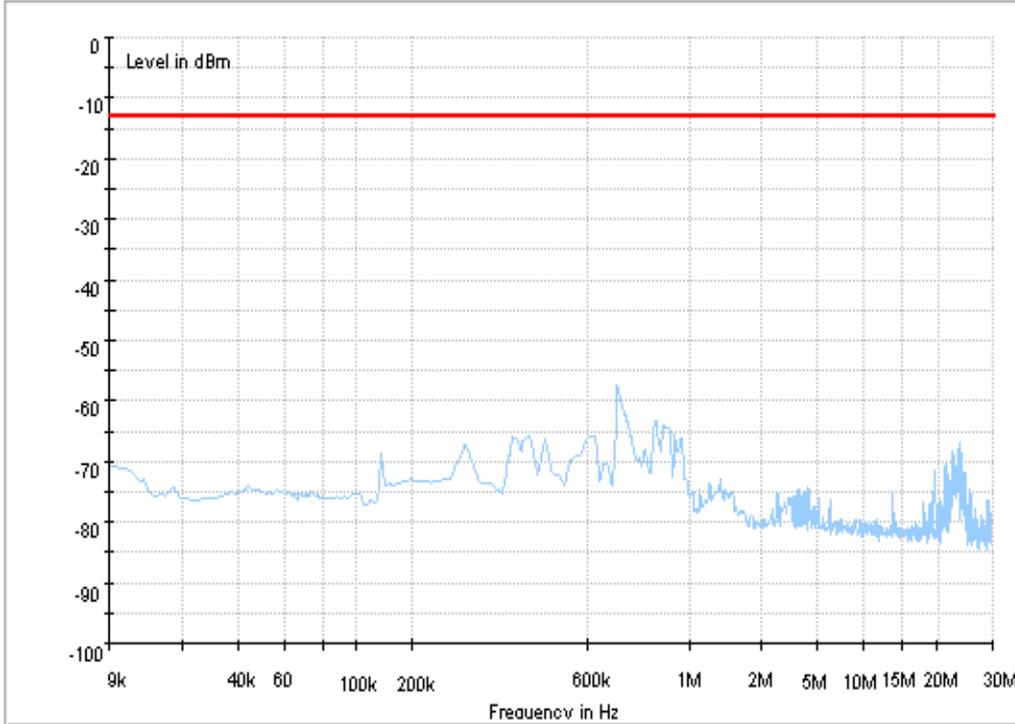


Copy of FCC PART24 LTE Band 2_H

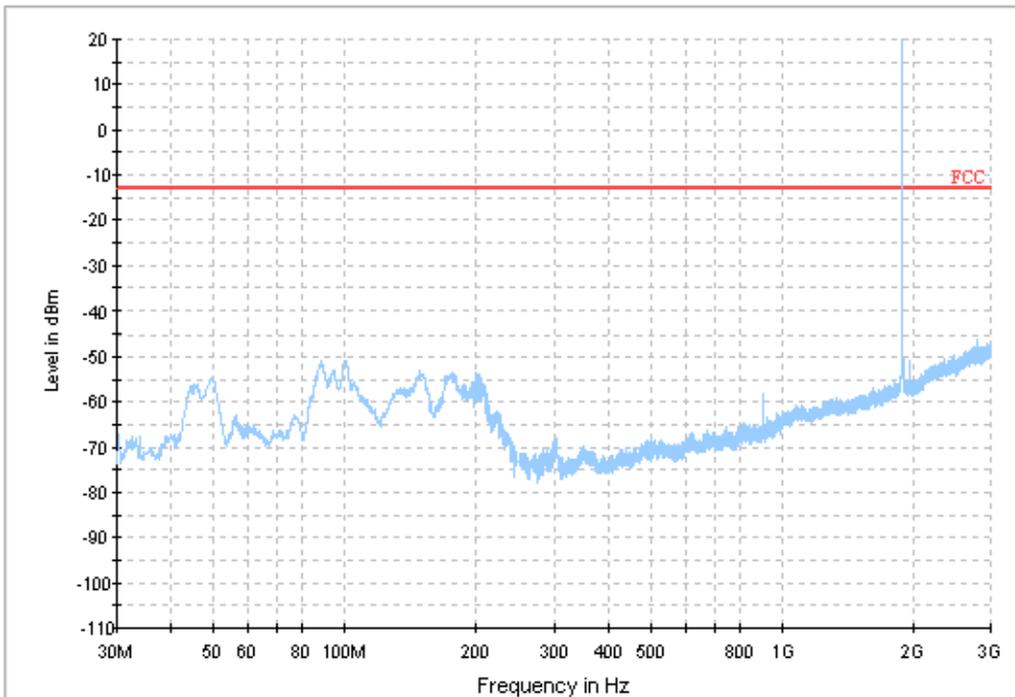




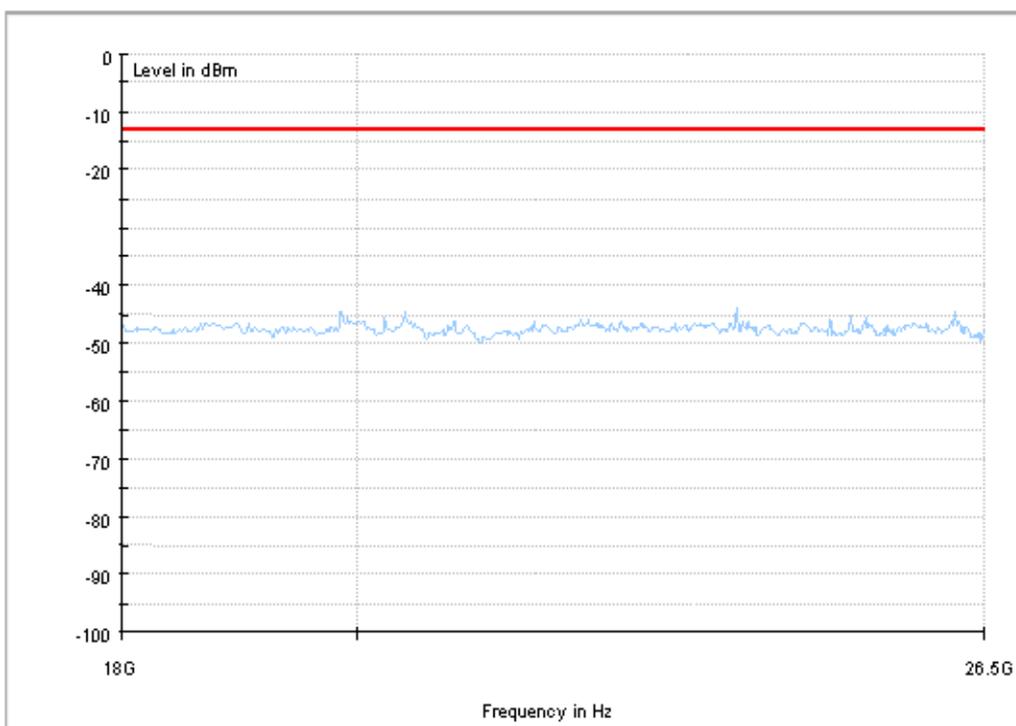
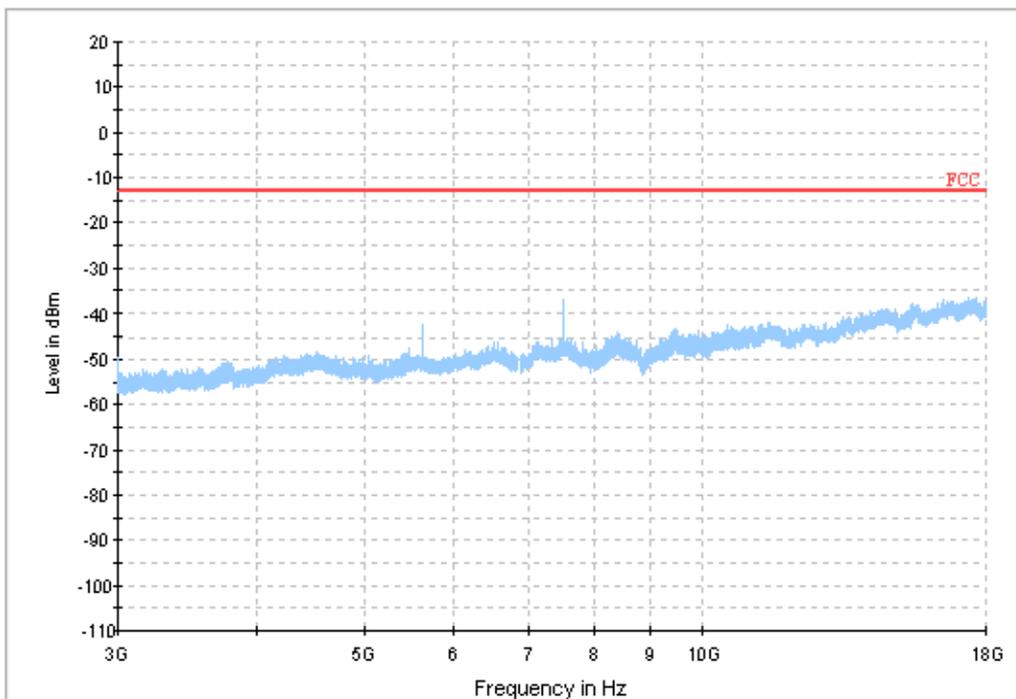
7.1.1.2 Test Bandwidth = 5



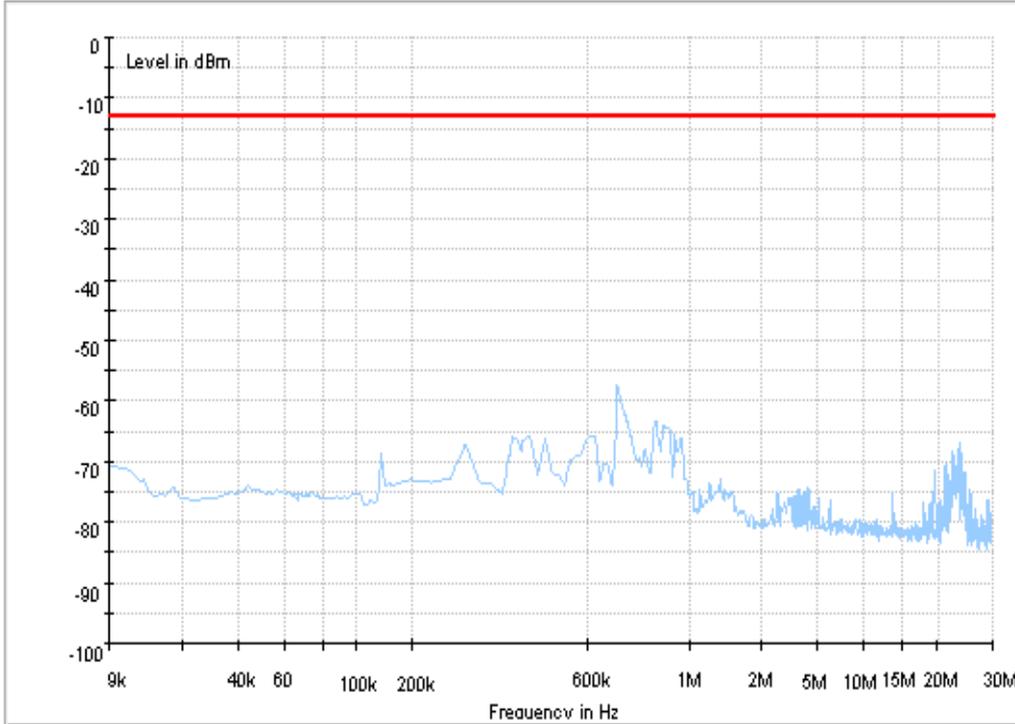
Copy of FCC PART24 LTE Band 2_L



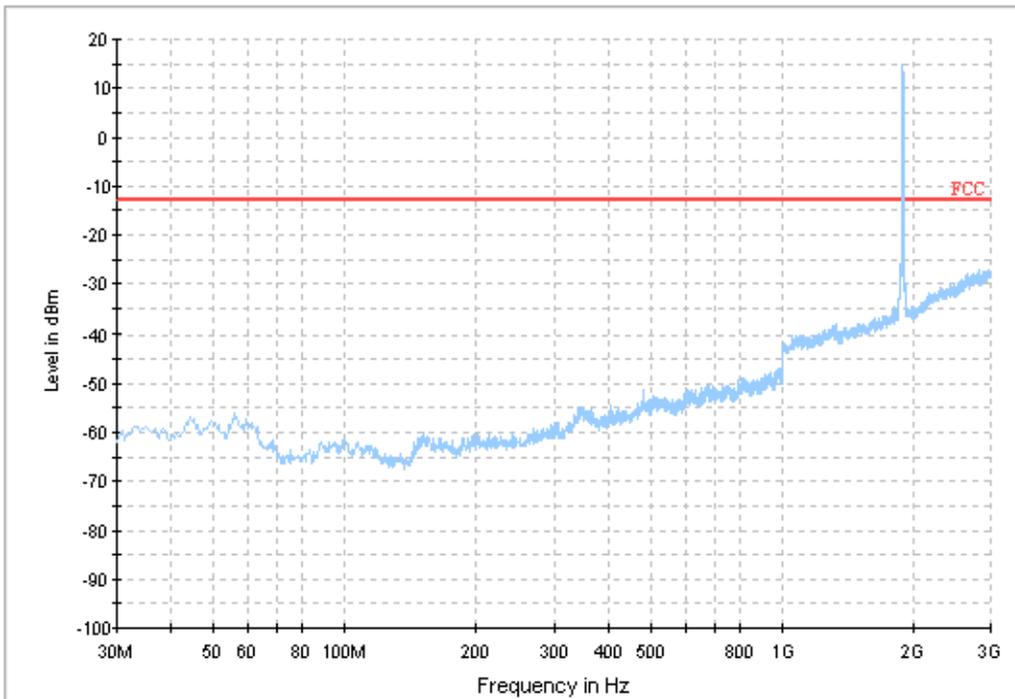
Copy of FCC PART24 LTE Band 2_H



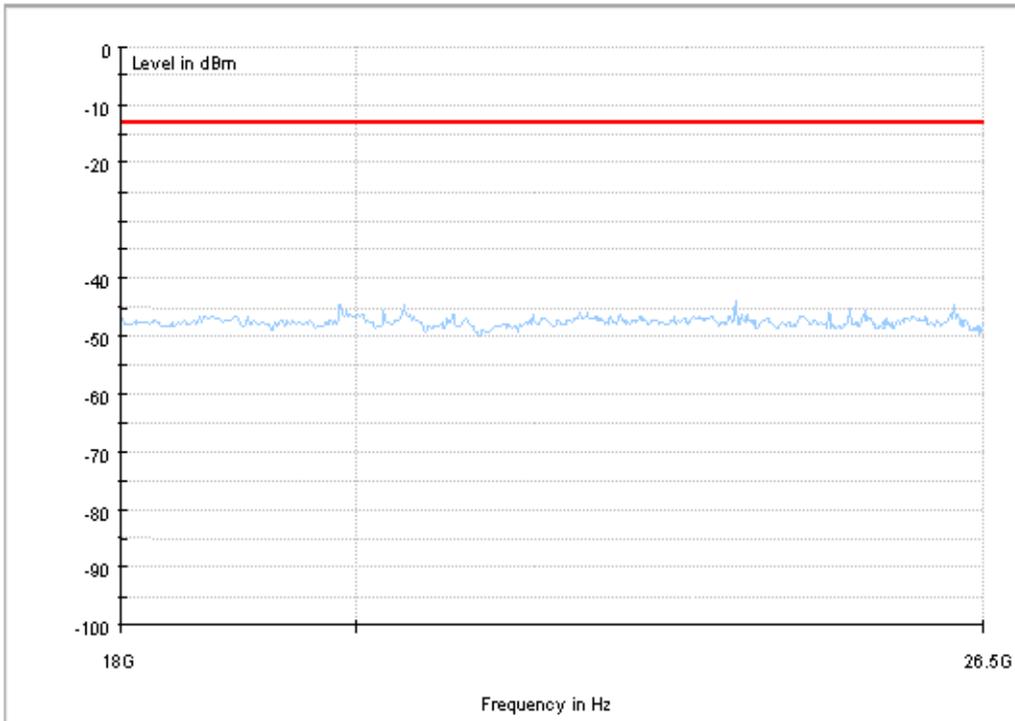
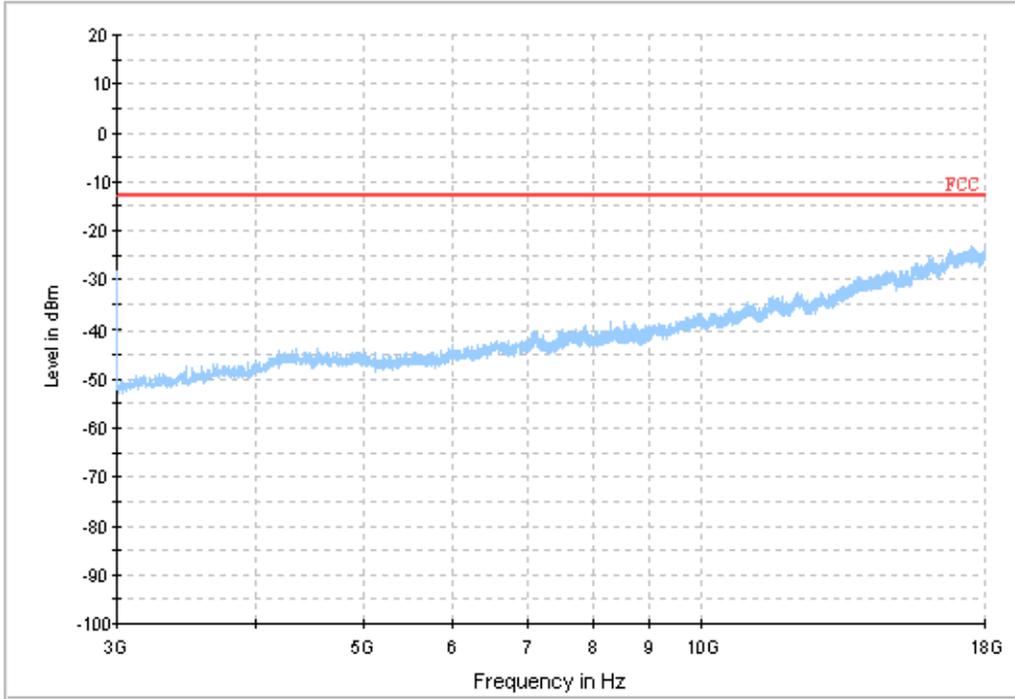
7.1.1.3 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L

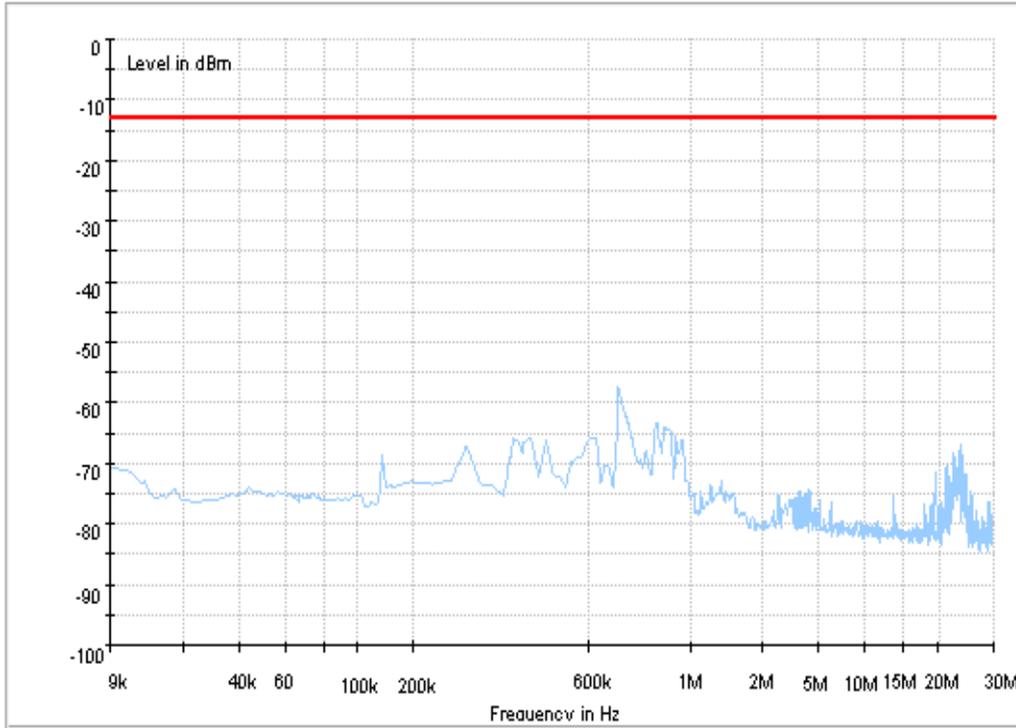


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H

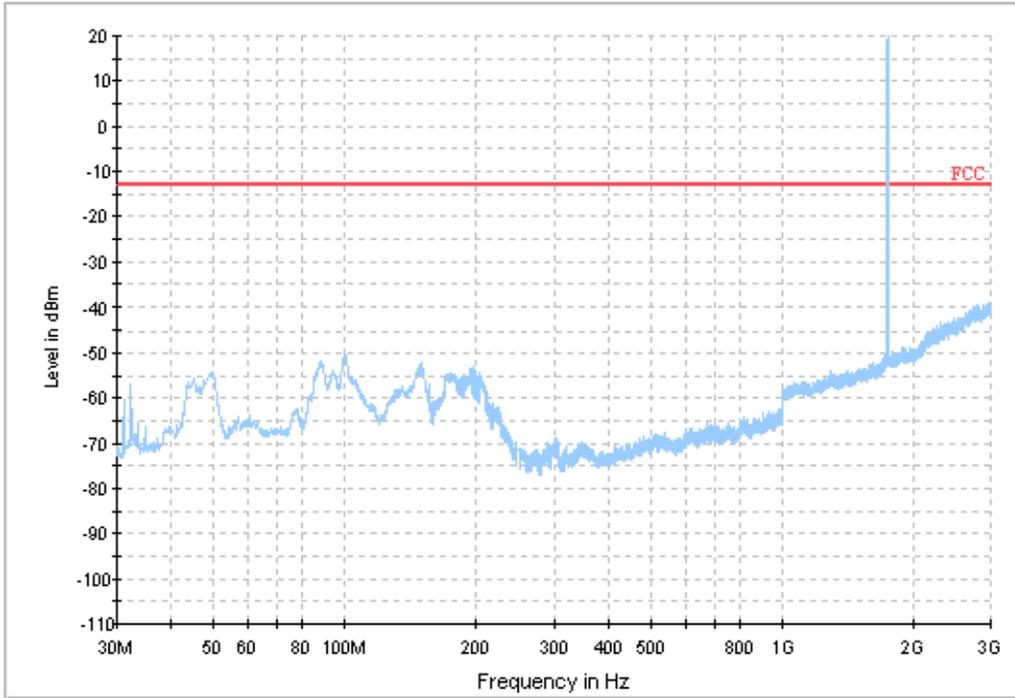


7.1.2 Test Band = BAND4

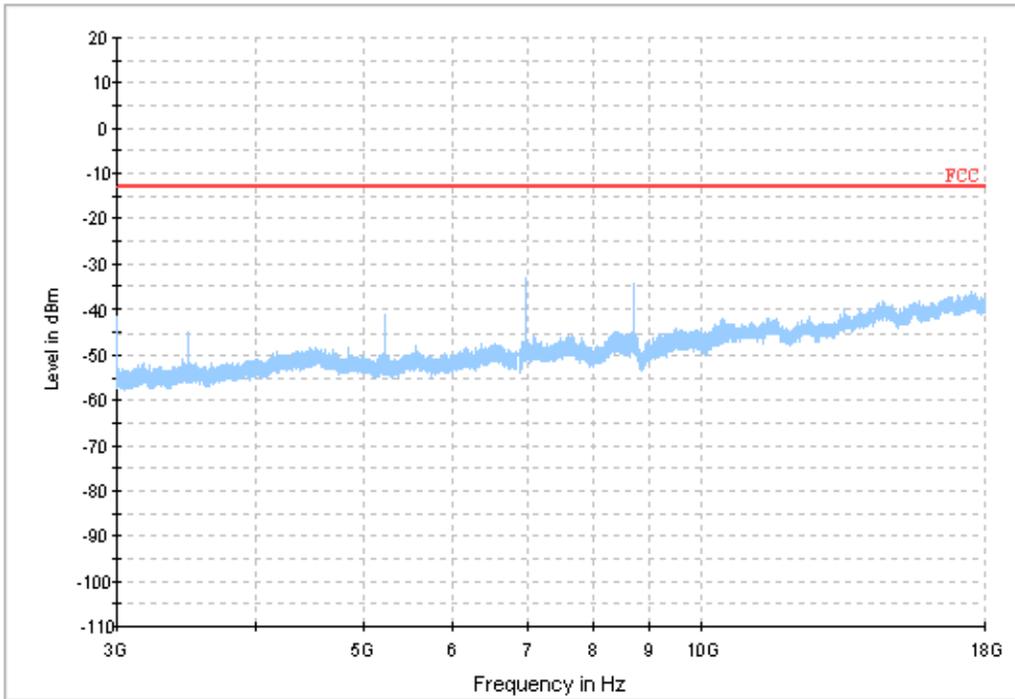
7.1.2.1 Test Bandwidth = 1.4

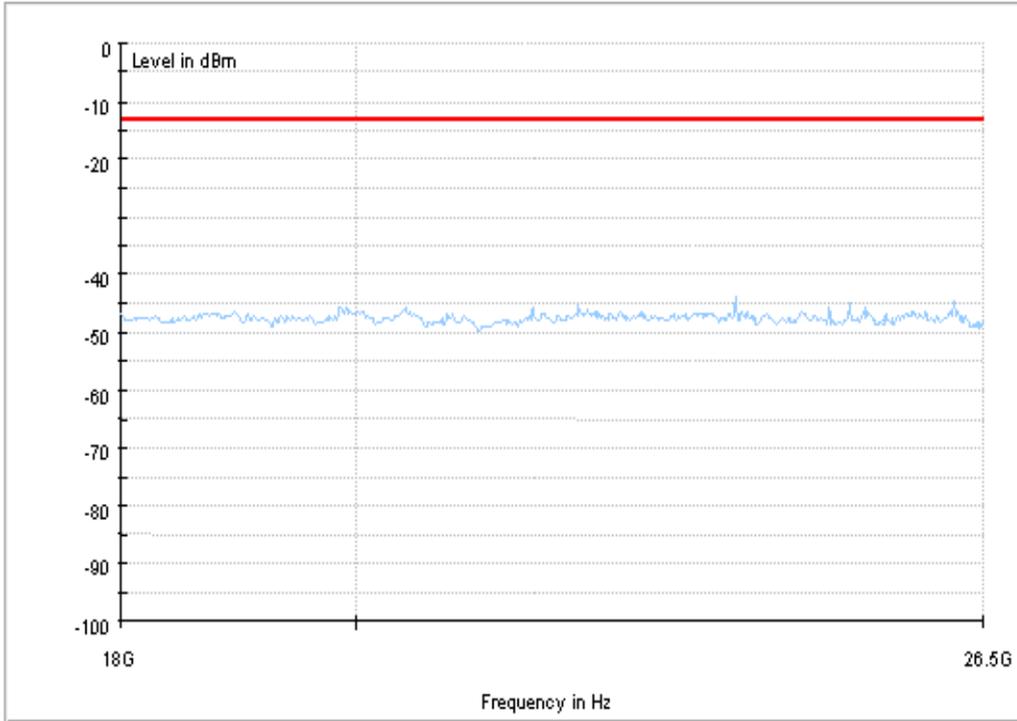


Copy of FCC PART27 LTE Band 4_L

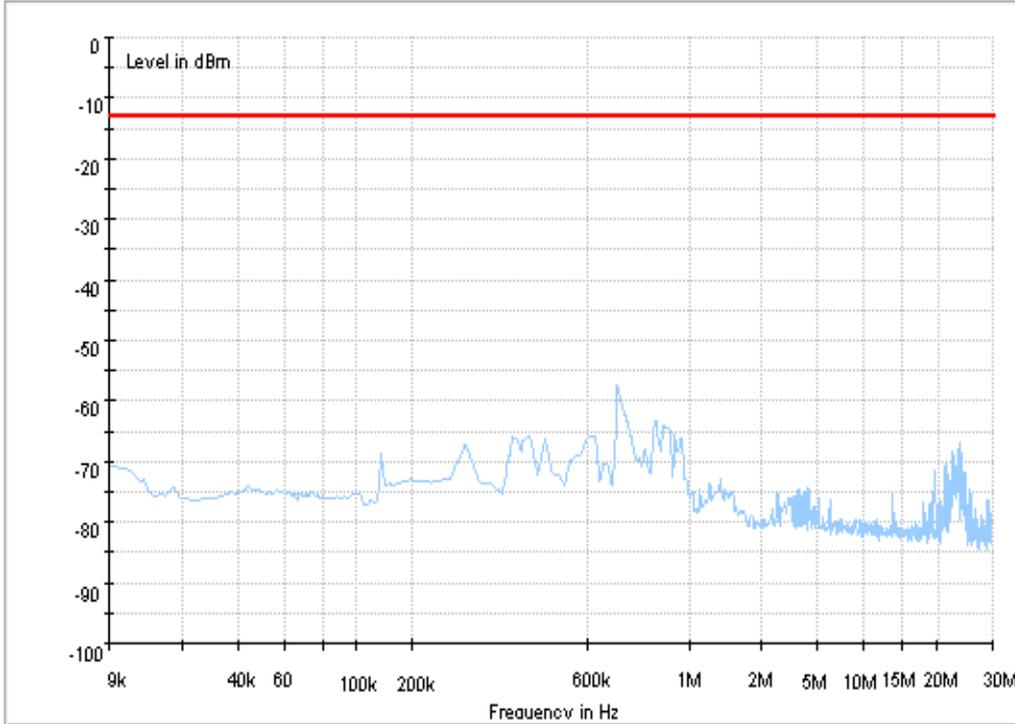


Copy of FCC PART27 LTE Band 4_H

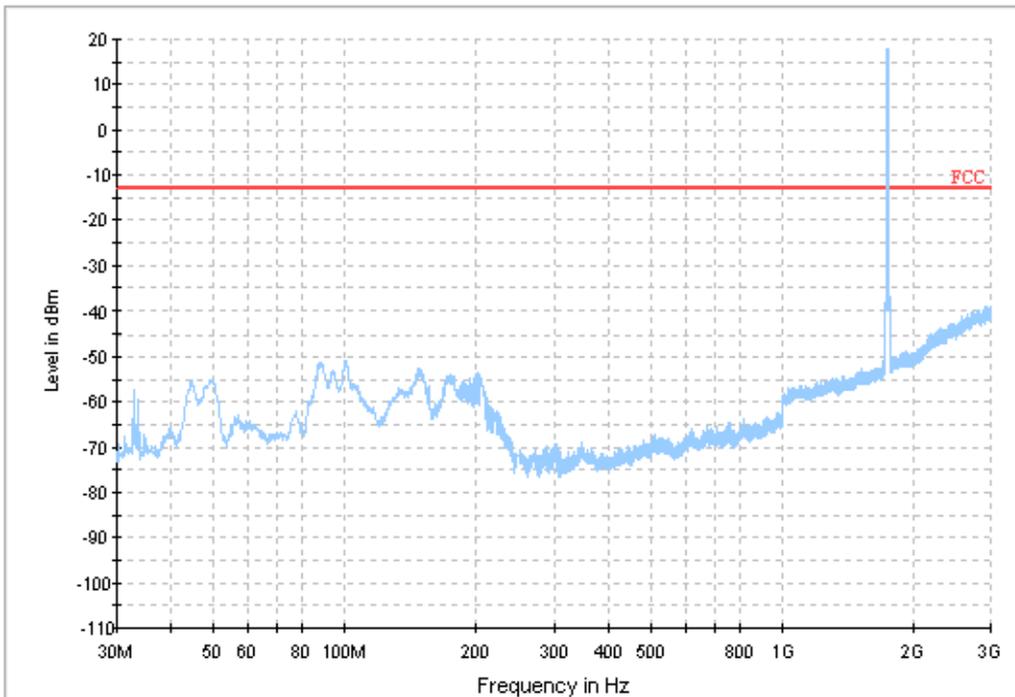




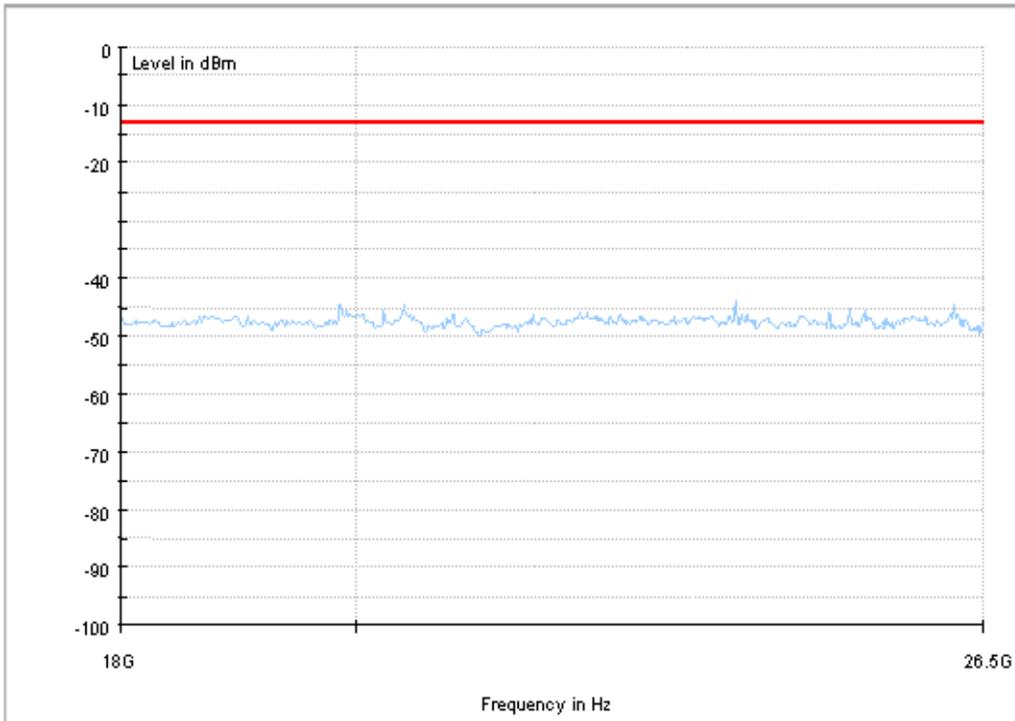
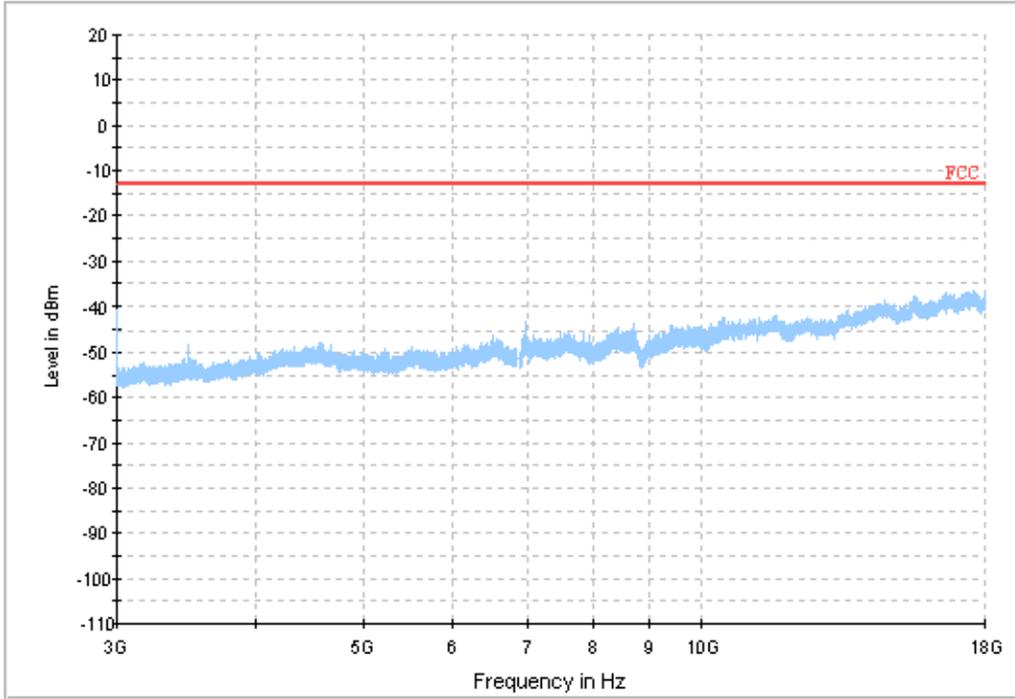
7.1.2.2 Test Bandwidth = 5



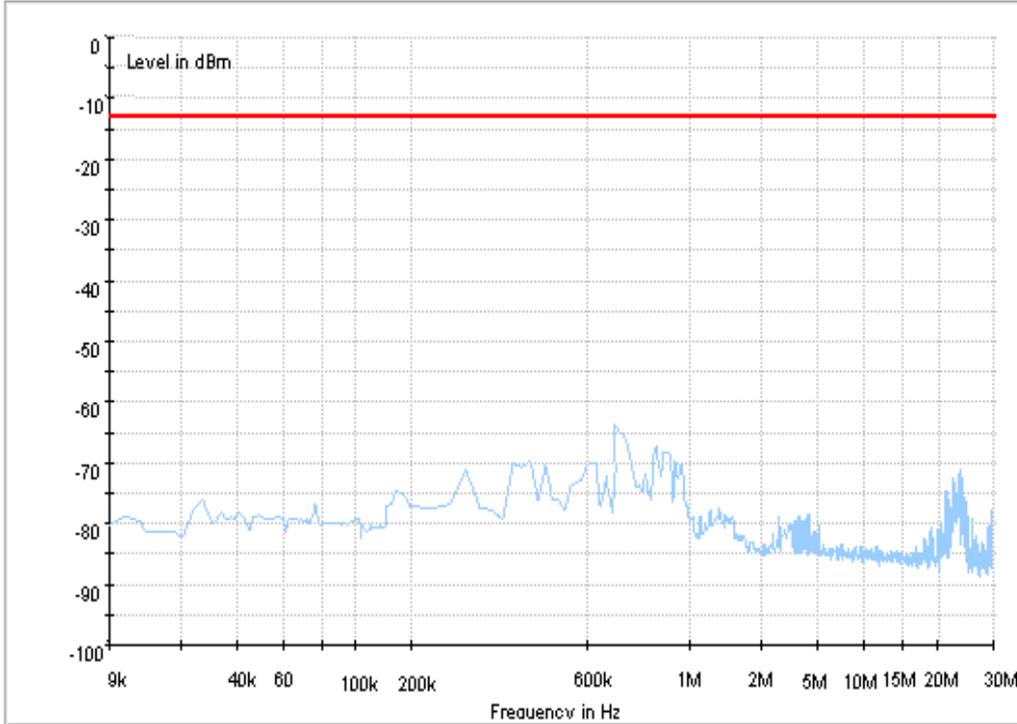
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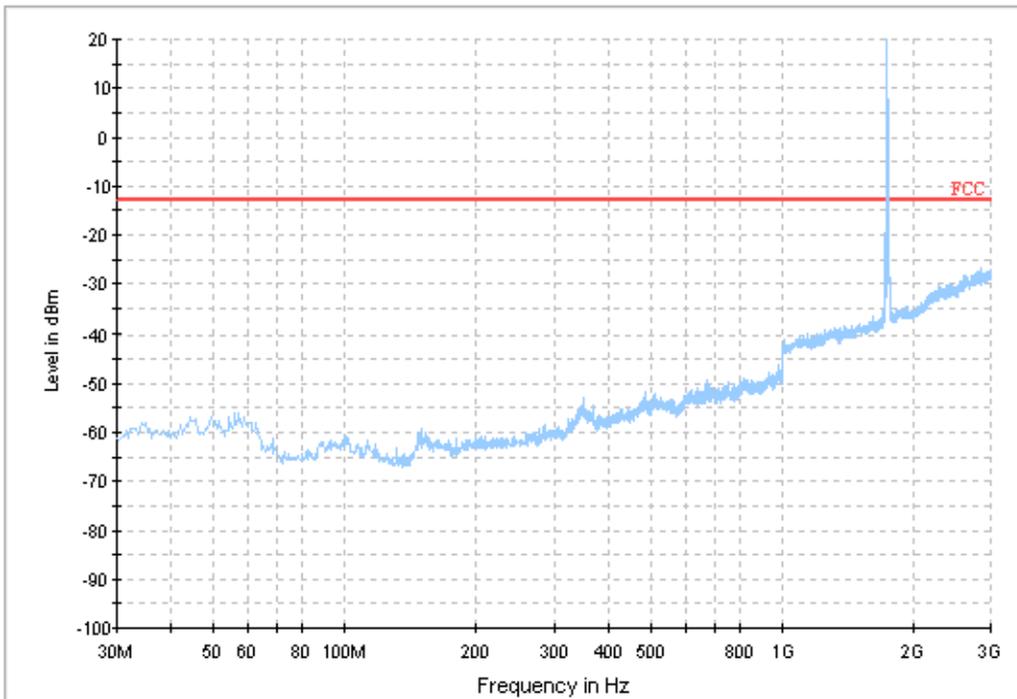
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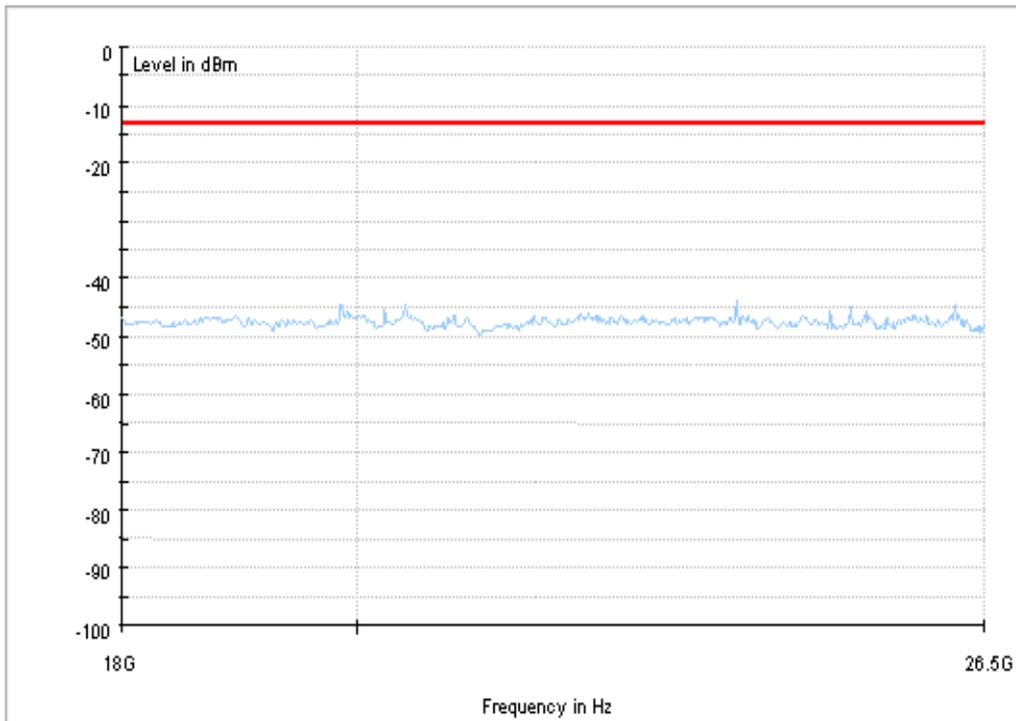
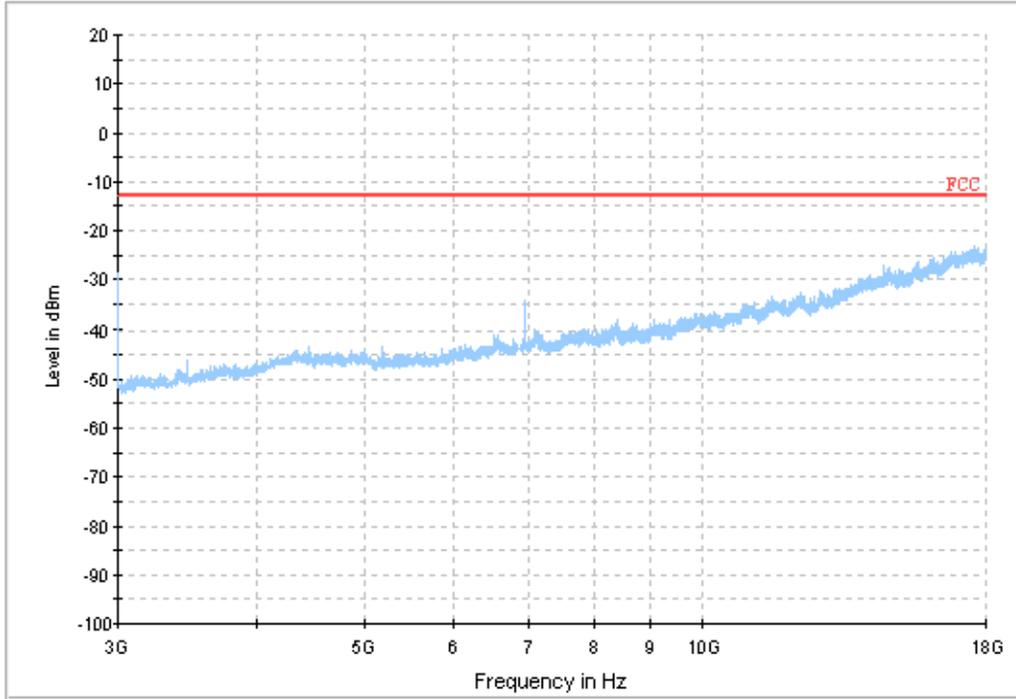
7.1.2.3 Test Bandwidth = 20



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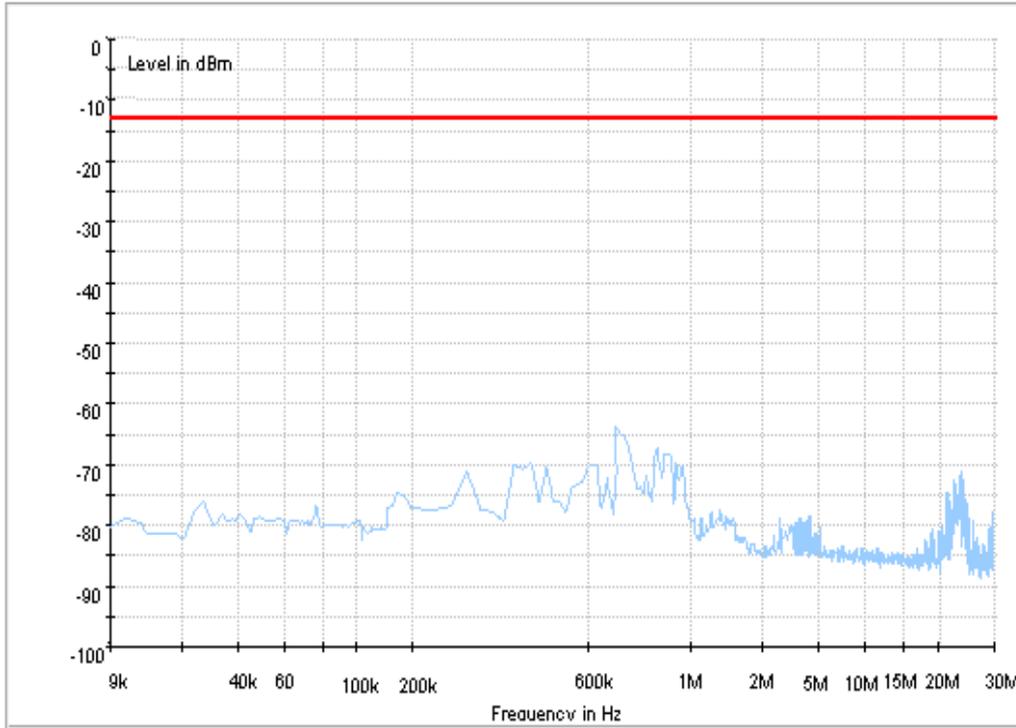


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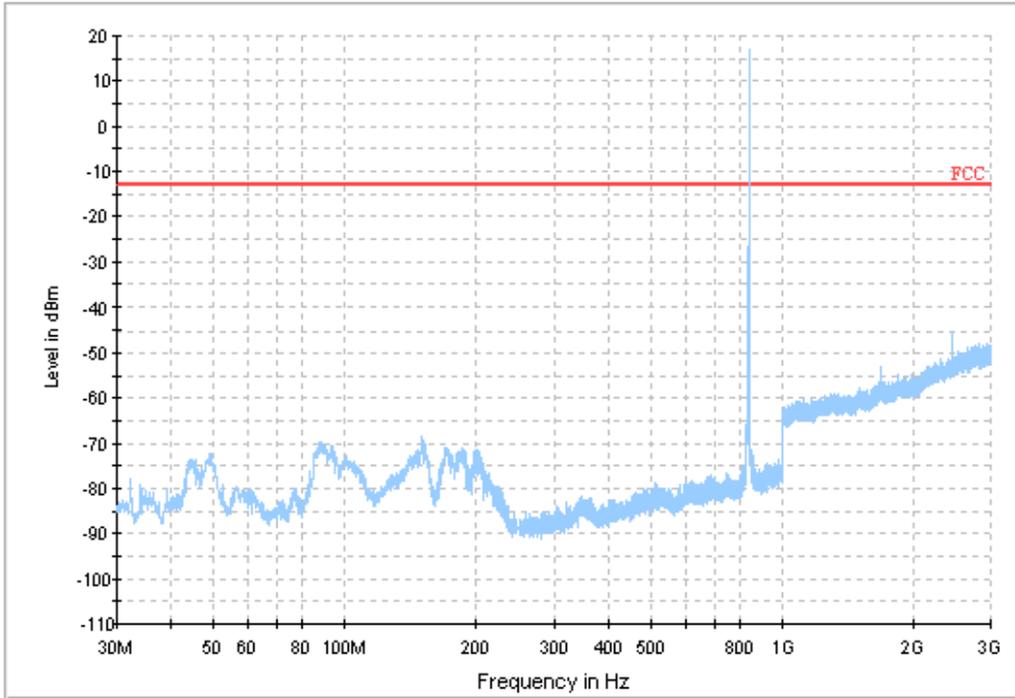


7.1.3 Test Band = BAND5

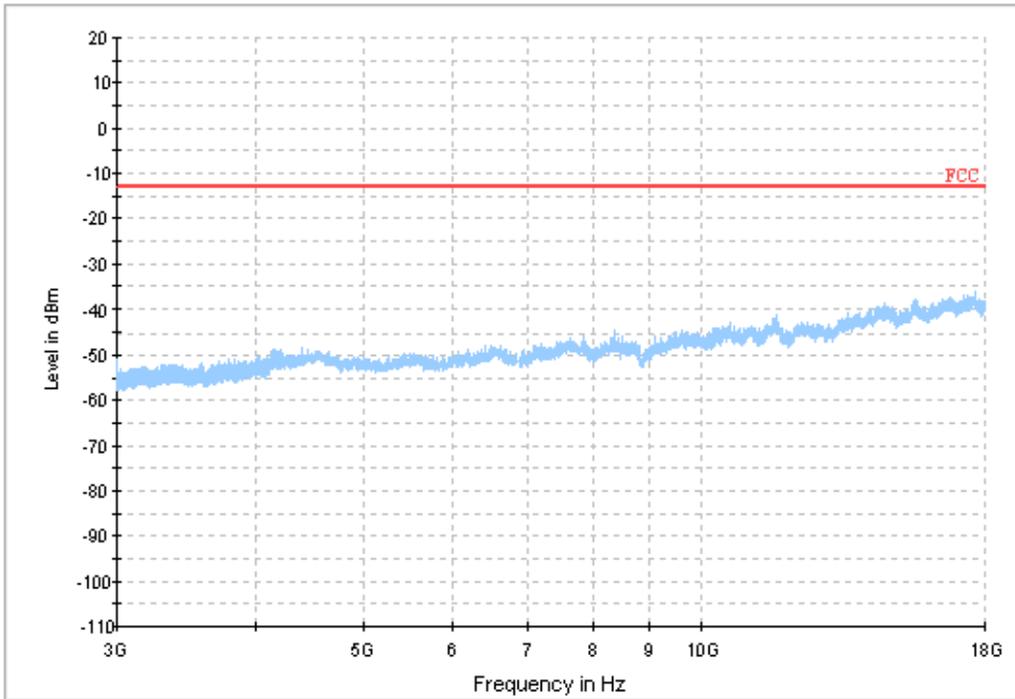
7.1.3.1 Test Bandwidth = 1.4

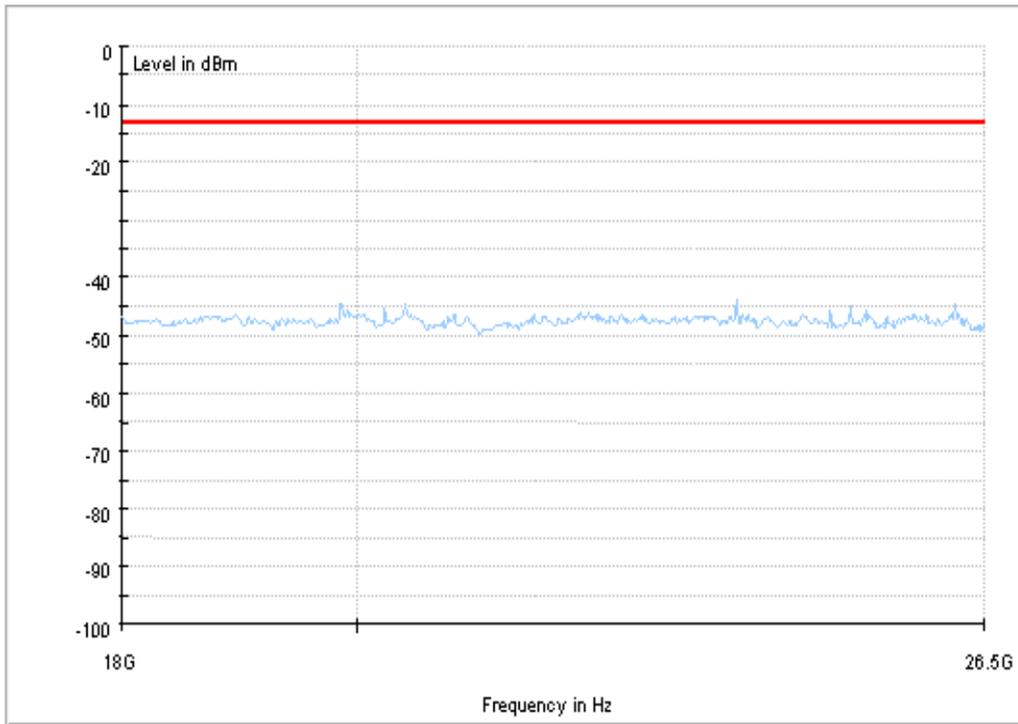


Copy of FCC PART22 LTE Band 5_L

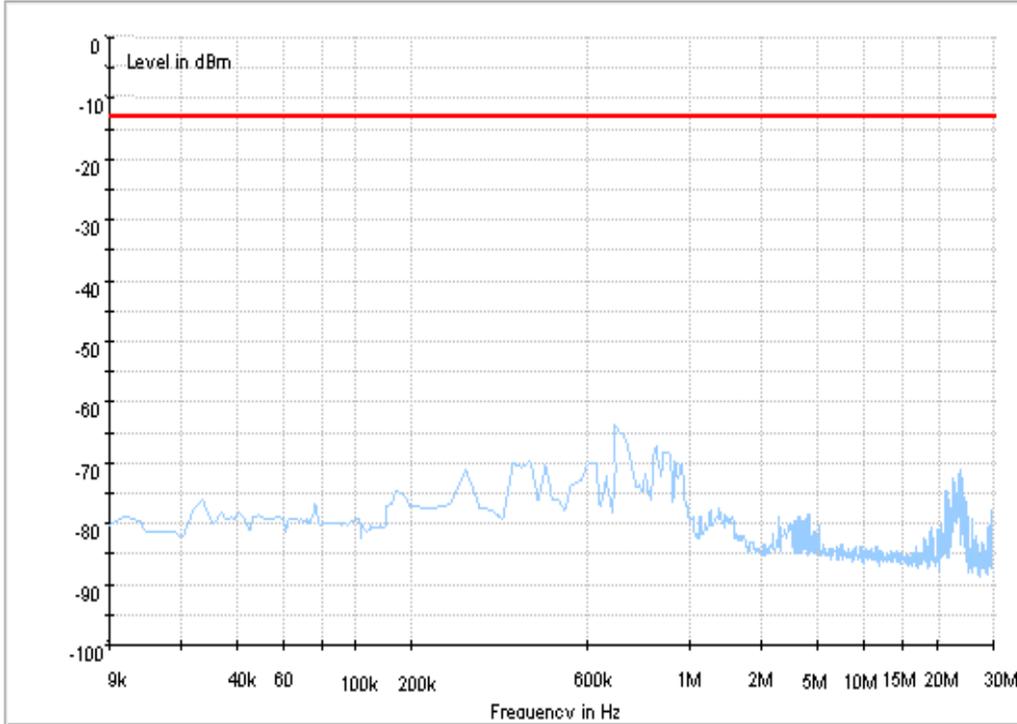


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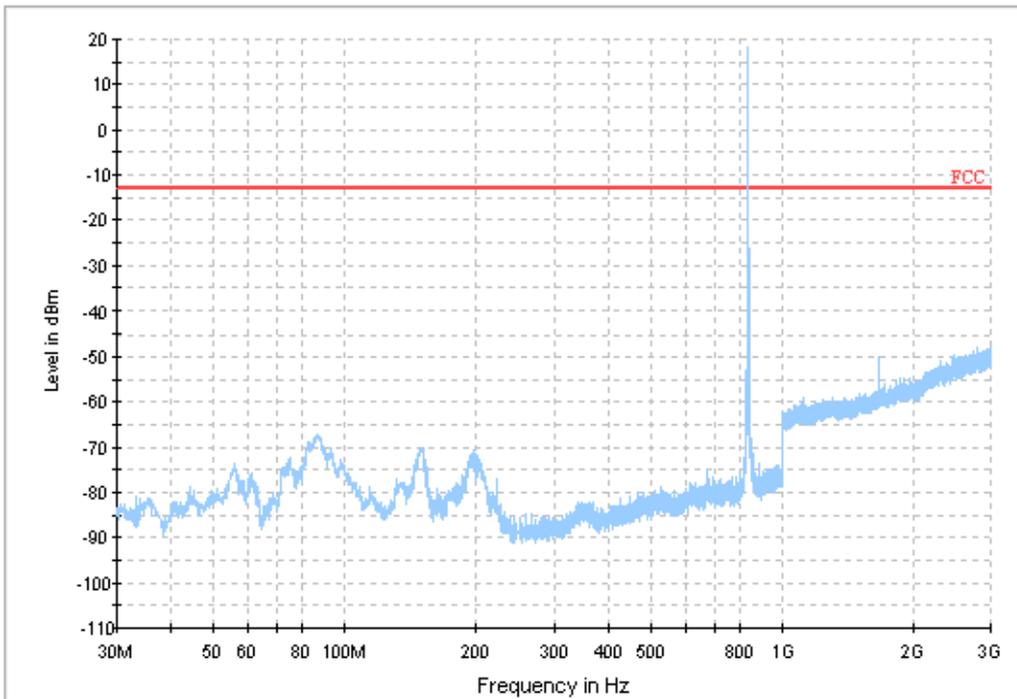




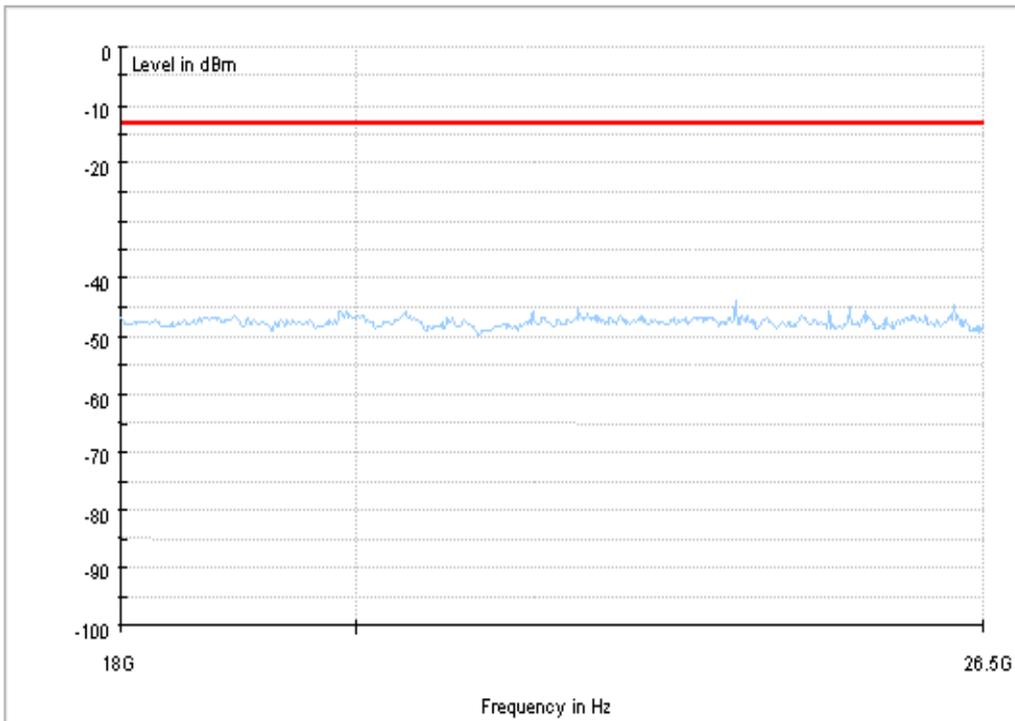
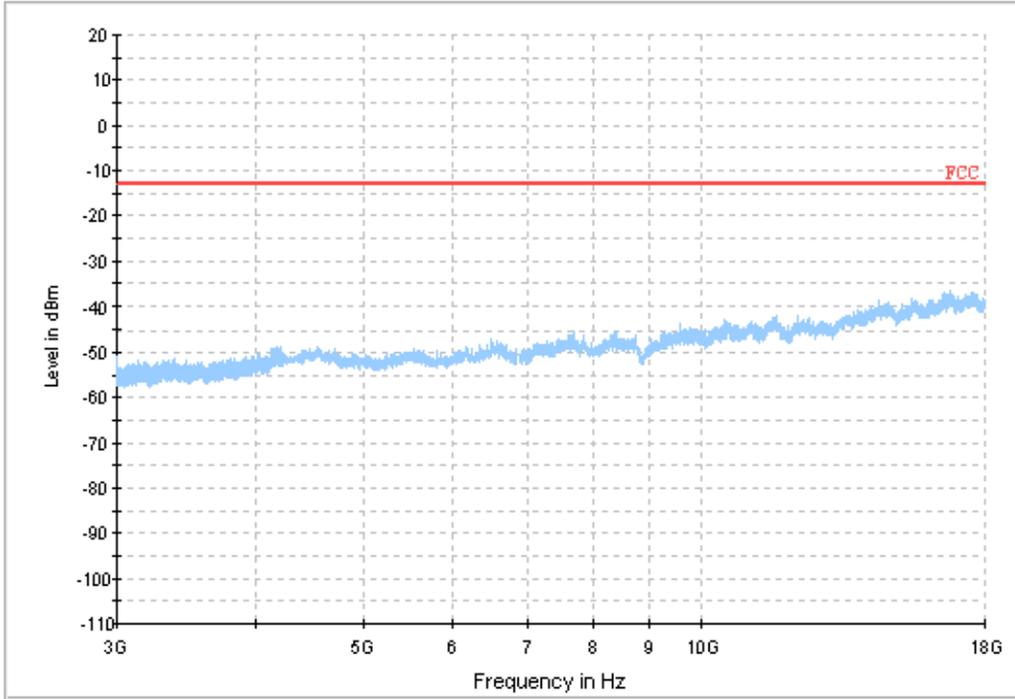
7.1.3.2 Test Bandwidth = 5



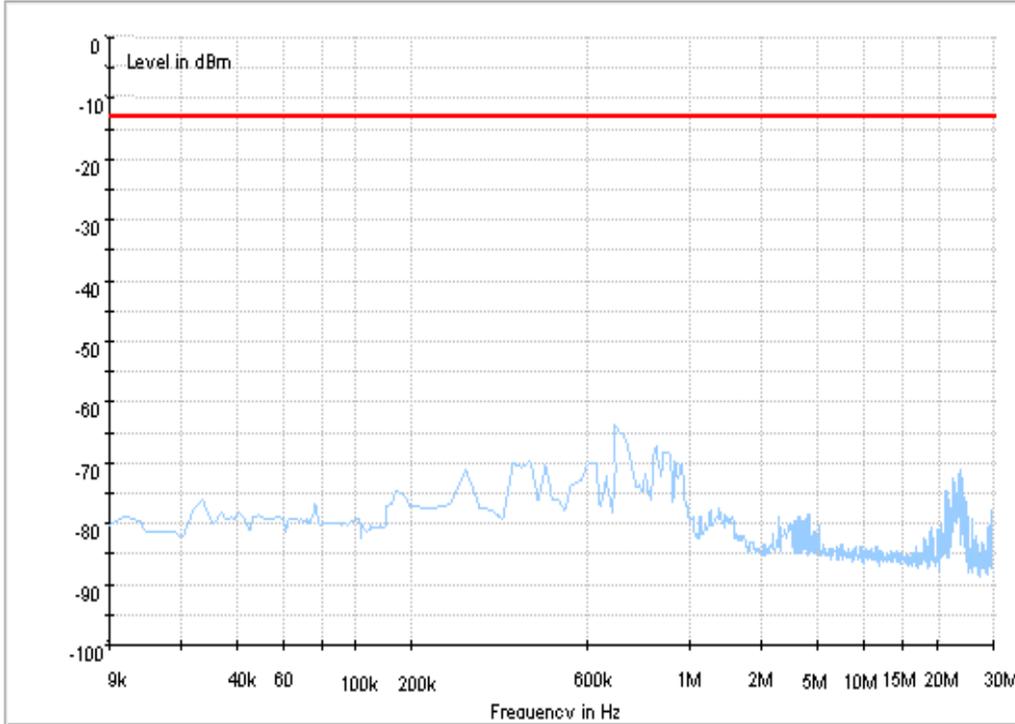
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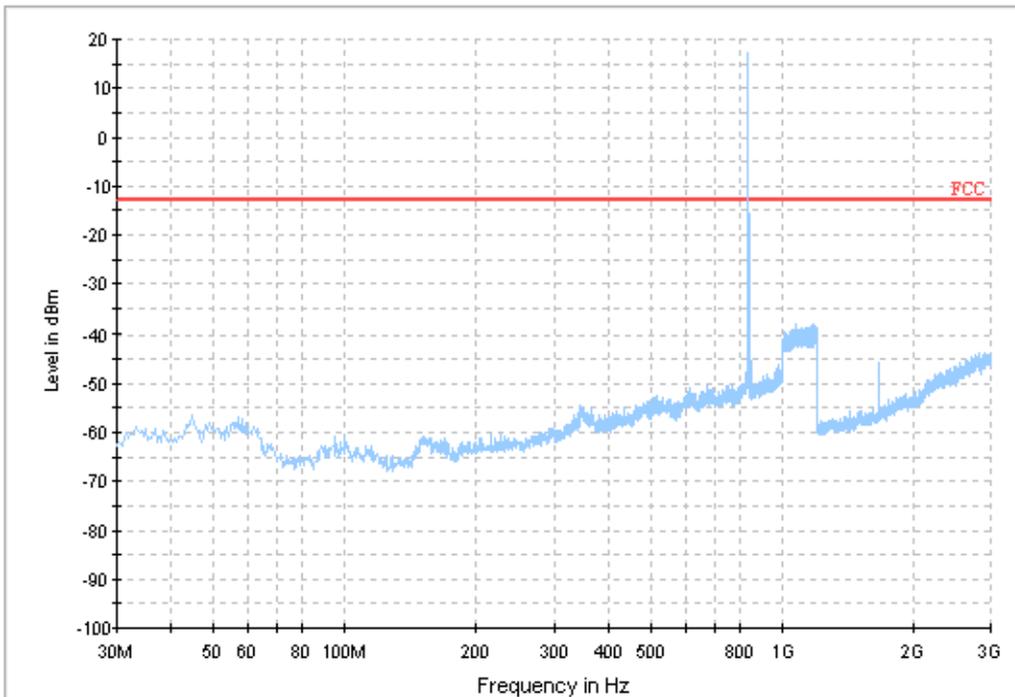
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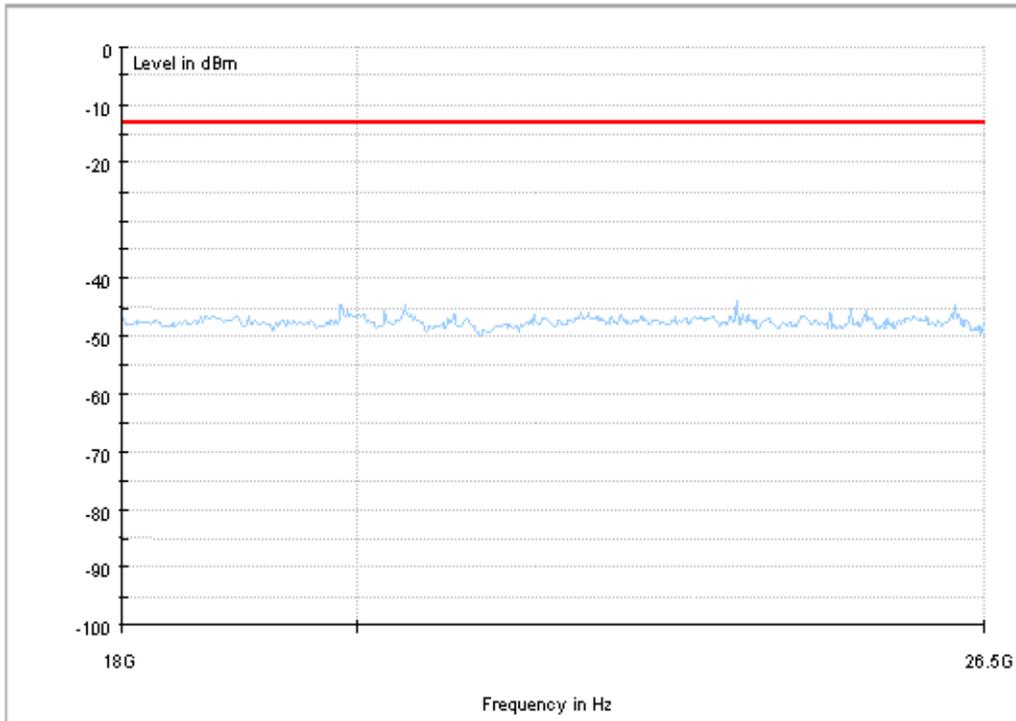
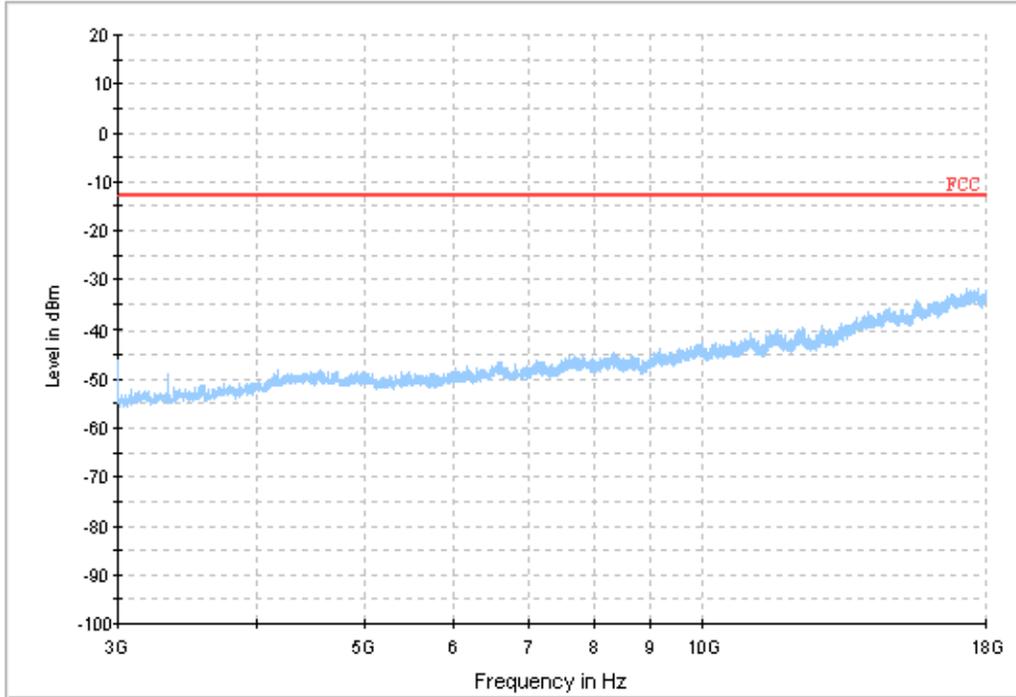
7.1.3.3 Test Bandwidth = 10



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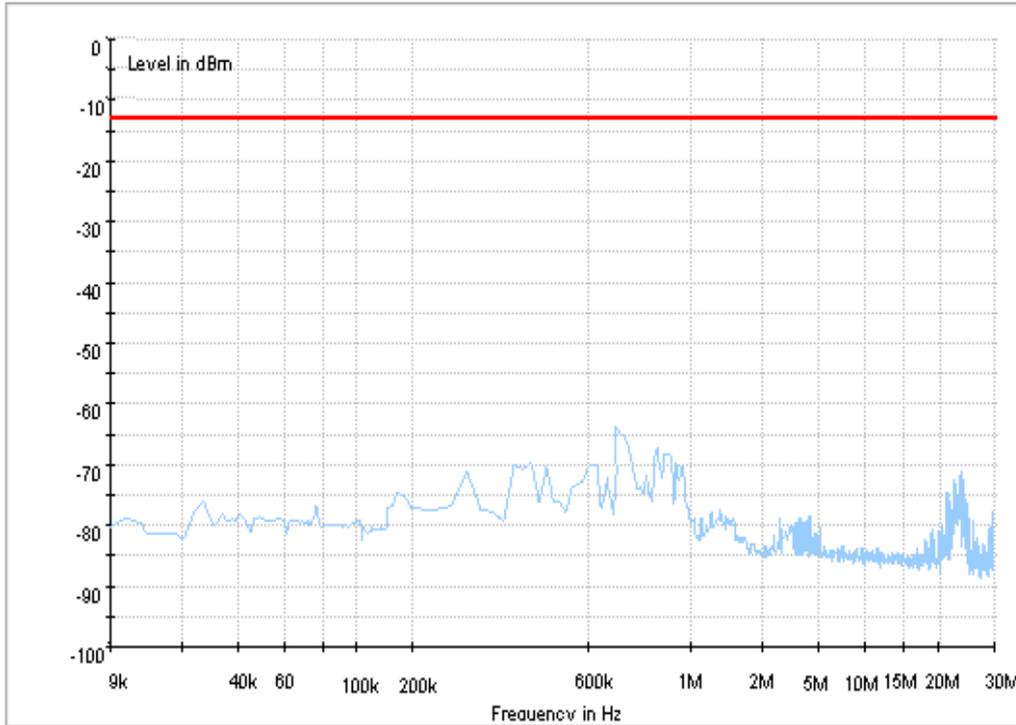


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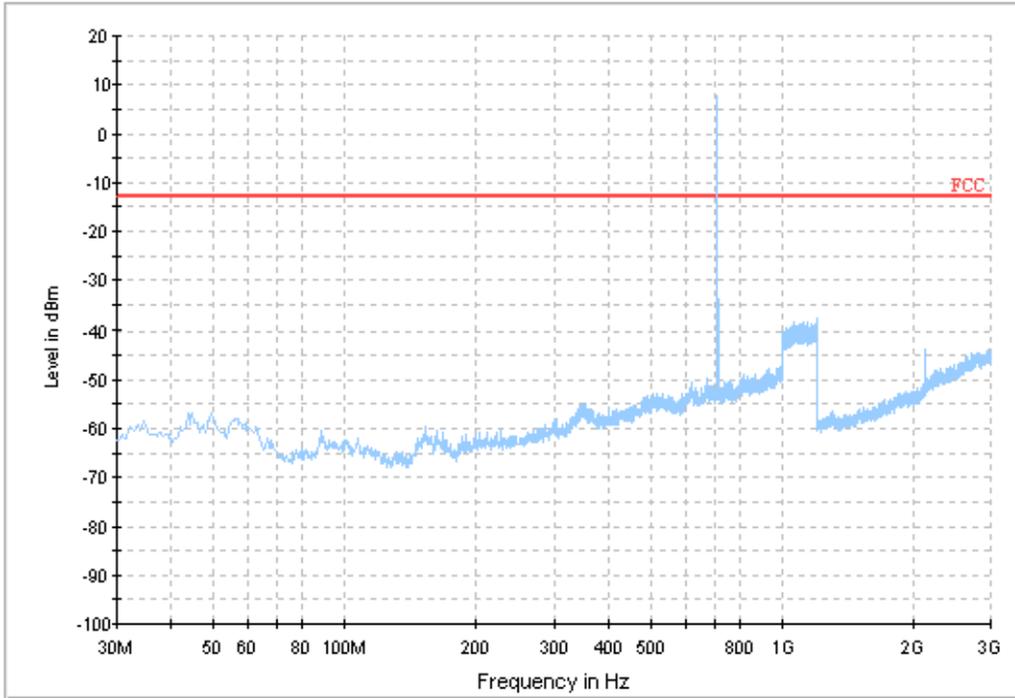


7.1.4 Test Band = BAND12

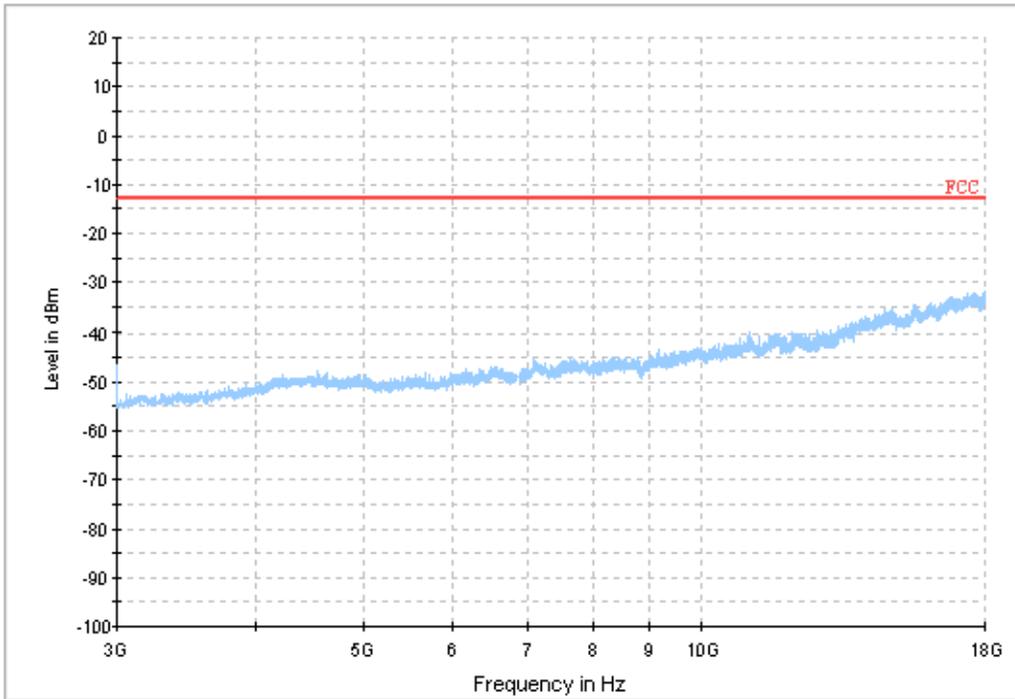
7.1.4.1 Test Bandwidth = 1.4



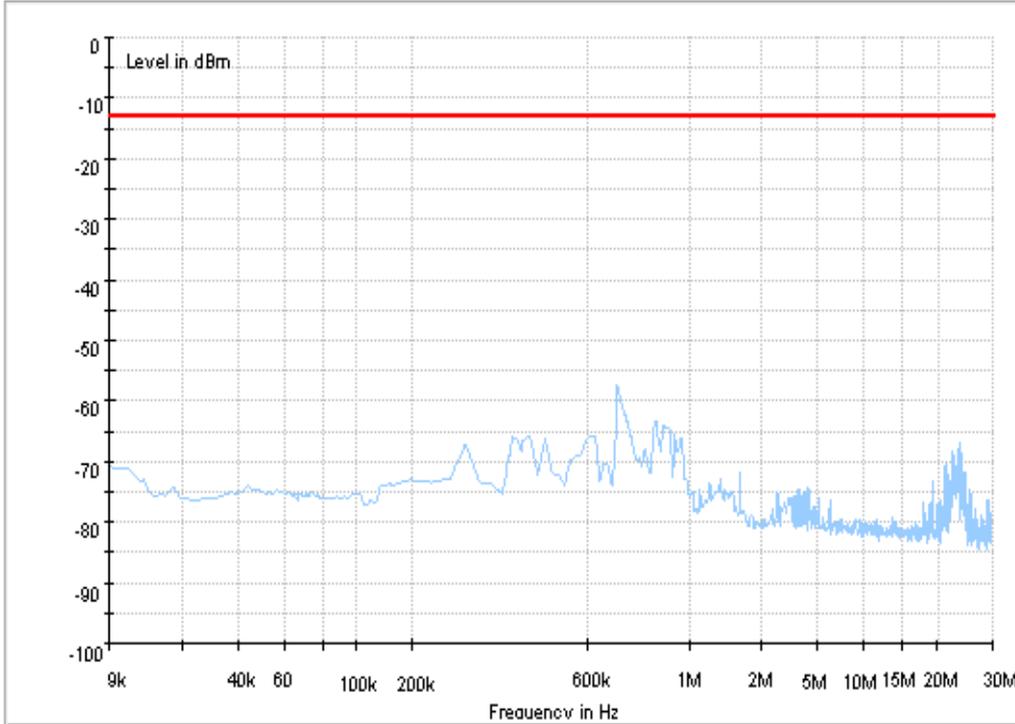
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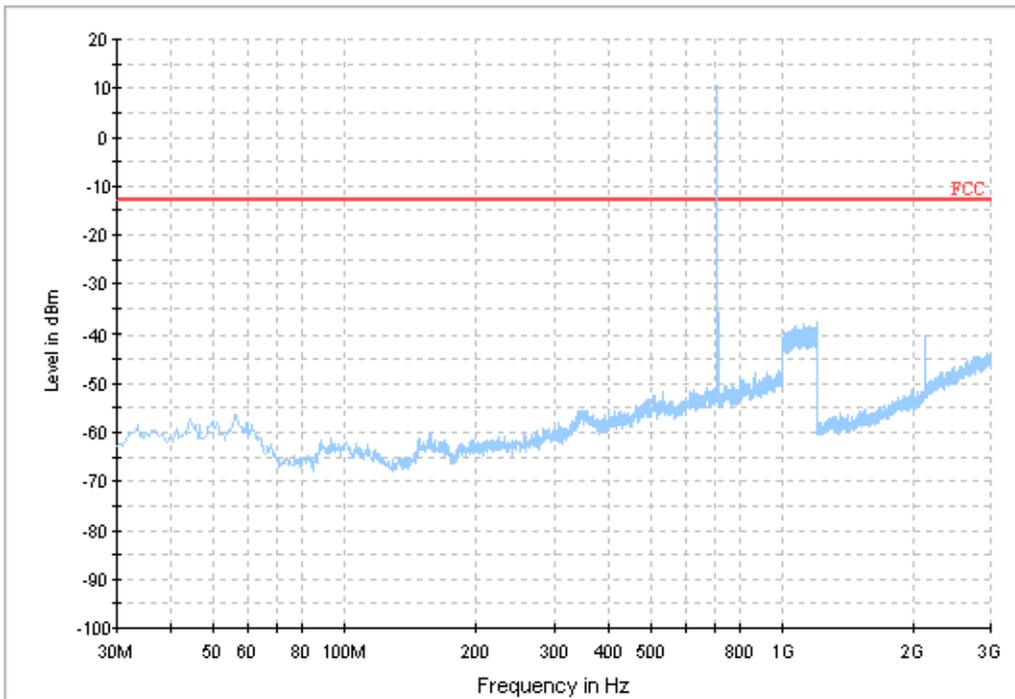
Copy of RSE-TX-DIRECTOR BELOW 1G_H



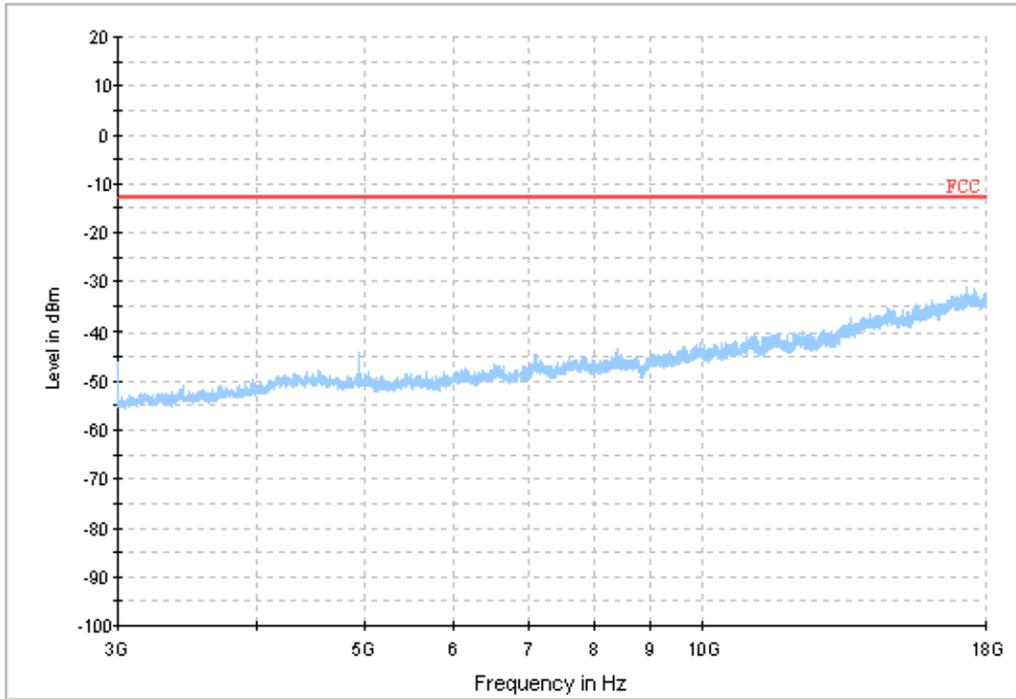
7.1.4.2 Test Bandwidth = 5



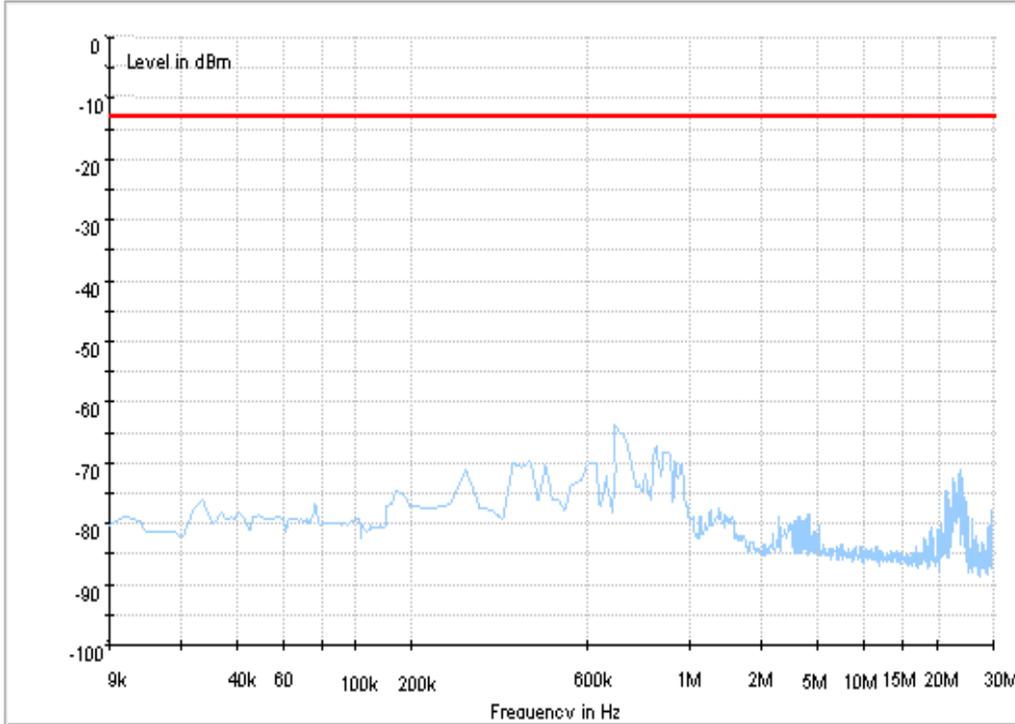
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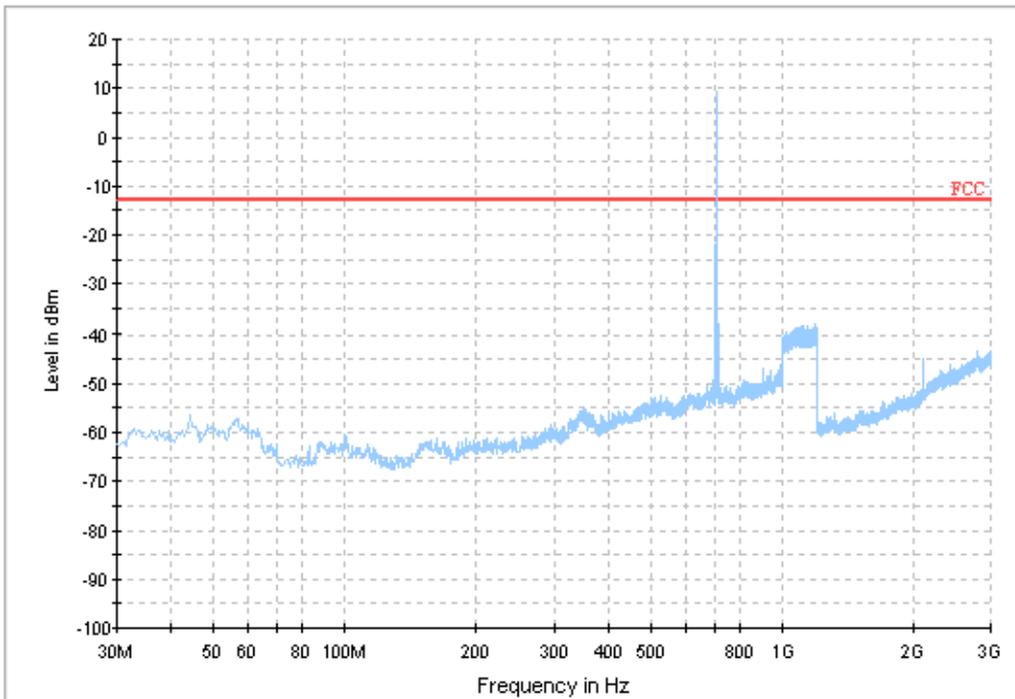
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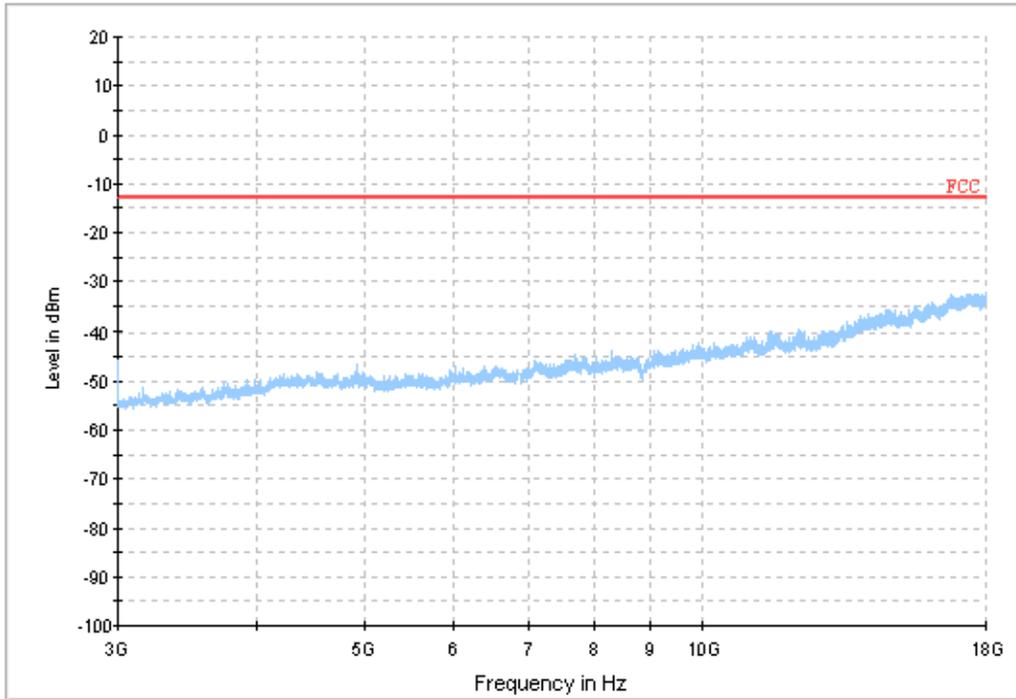
7.1.4.3 Test Bandwidth = 10



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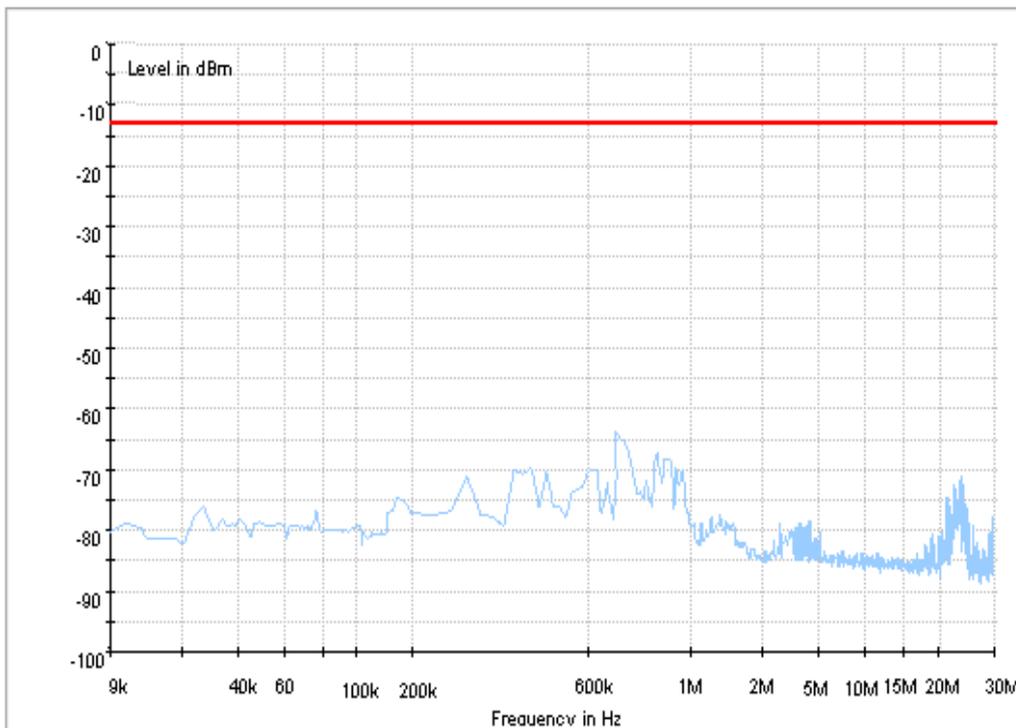


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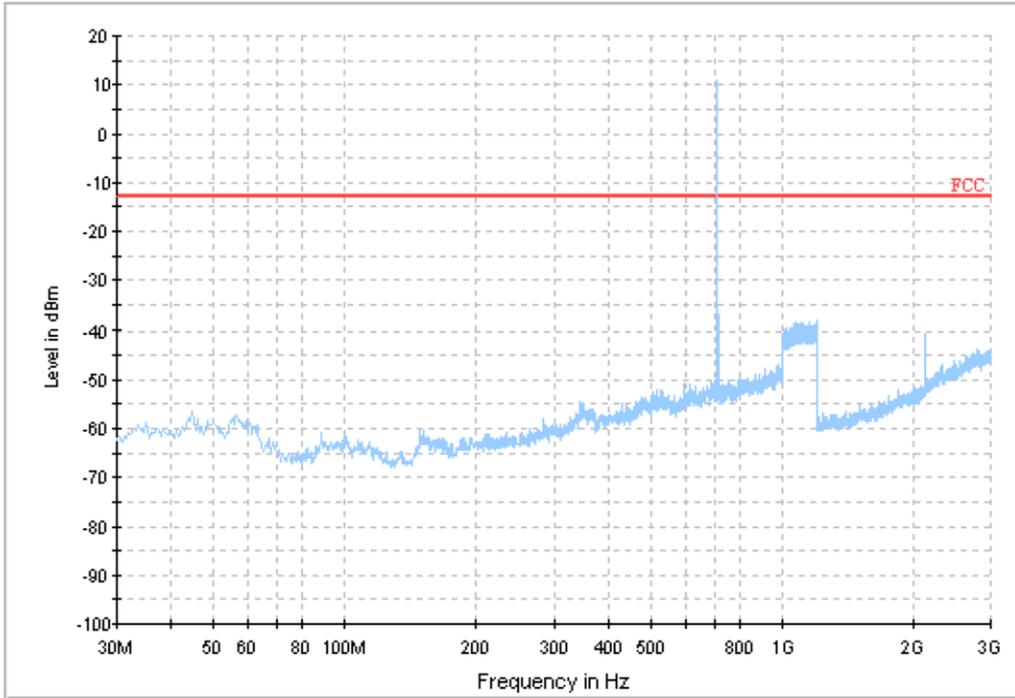


7.1.5 Test Band = BAND17

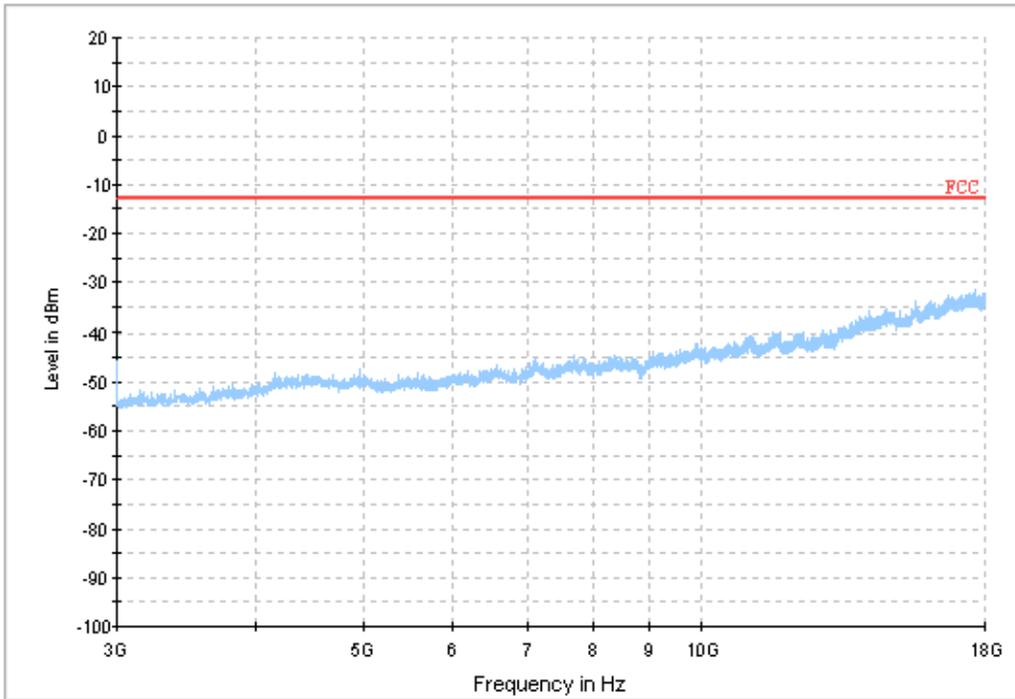
7.1.5.1 Test Bandwidth = 5



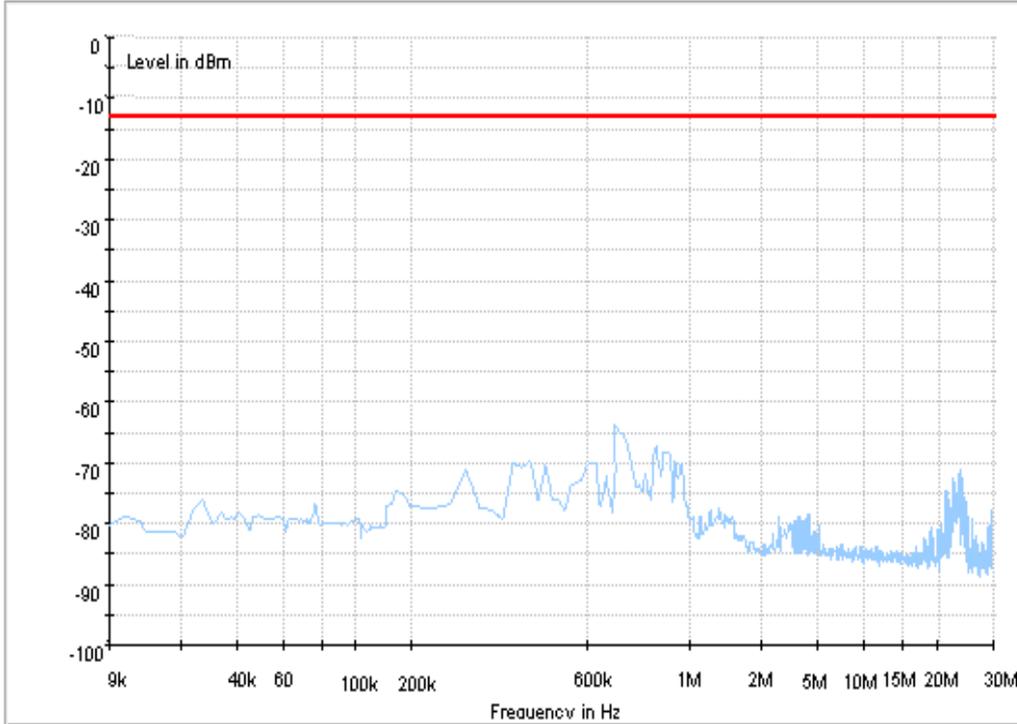
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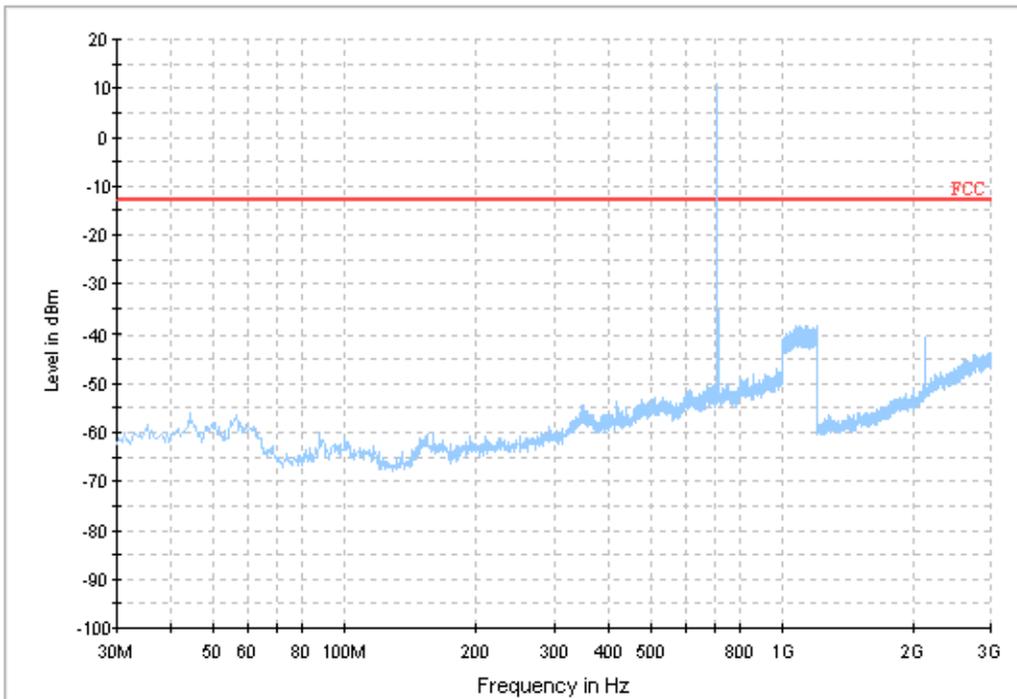
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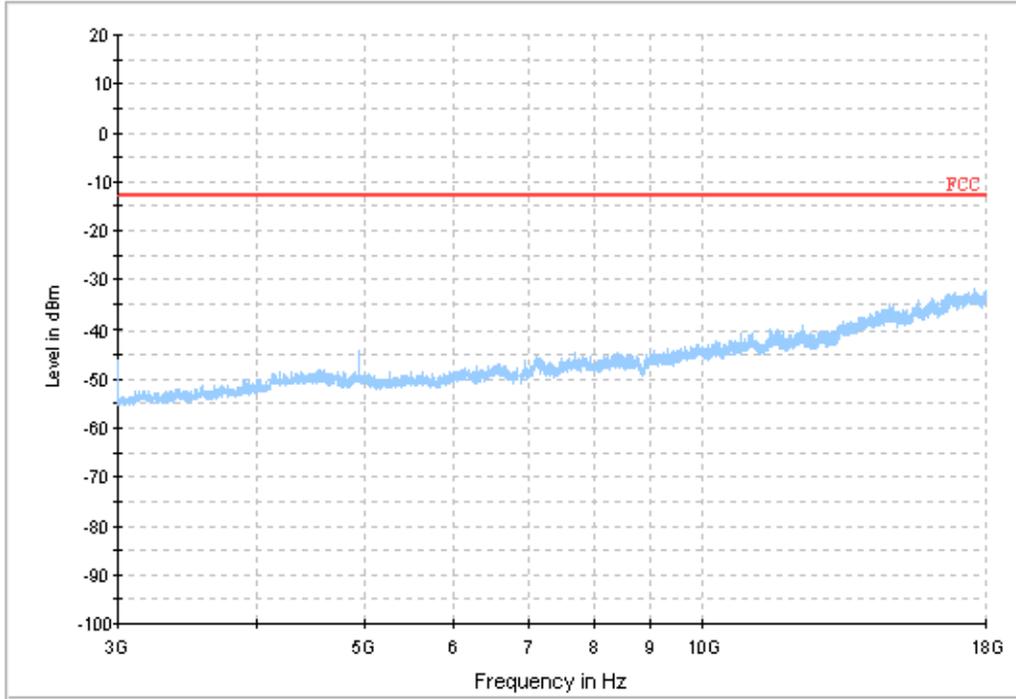
7.1.5.2 Test Bandwidth = 10



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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]	Limit [dBm]	Verdict
BAND2	LTE/TM1	1.4	LCH	TN	VL	1.50	0.00081	±2.5	PASS
					VN	-4.86	-0.00263	±2.5	PASS
					VH	-2.50	-0.00135	±2.5	PASS
			MCH	TN	VL	-6.28	-0.00334	±2.5	PASS
					VN	-13.42	-0.00714	±2.5	PASS
					VH	-1.29	-0.00069	±2.5	PASS
			HCH	TN	VL	-8.70	-0.00456	±2.5	PASS
					VN	-3.89	-0.00204	±2.5	PASS
					VH	-8.24	-0.00432	±2.5	PASS
		3	LCH	TN	VL	-3.33	-0.0018	±2.5	PASS
					VN	1.22	0.00066	±2.5	PASS
					VH	-1.44	-0.00078	±2.5	PASS
			MCH	TN	VL	-15.41	-0.0082	±2.5	PASS
					VN	-3.52	-0.00187	±2.5	PASS
					VH	-1.63	-0.00087	±2.5	PASS
			HCH	TN	VL	-11.40	-0.00597	±2.5	PASS
					VN	-9.80	-0.00513	±2.5	PASS
					VH	-17.68	-0.00926	±2.5	PASS
		5	LCH	TN	VL	4.42	0.00239	±2.5	PASS
					VN	-8.28	-0.00447	±2.5	PASS
					VH	-3.11	-0.00222	±2.5	PASS
			MCH	TN	VL	-9.86	-0.00524	±2.5	PASS
					VN	0.74	0.00039	±2.5	PASS
					VH	-1.89	-0.00101	±2.5	PASS
			HCH	TN	VL	-1.75	-0.00092	±2.5	PASS
					VN	-10.23	-0.00536	±2.5	PASS
					VH	-6.41	-0.00336	±2.5	PASS
		10	LCH	TN	VL	0.92	0.0005	±2.5	PASS
					VN	-10.77	-0.00581	±2.5	PASS
					VH	1.36	0.00073	±2.5	PASS
MCH	TN		VL	-3.62	-0.00193	±2.5	PASS		
			VN	-6.84	-0.00364	±2.5	PASS		
			VH	-6.41	-0.00341	±2.5	PASS		
HCH	TN		VL	8.25	0.00433	±2.5	PASS		