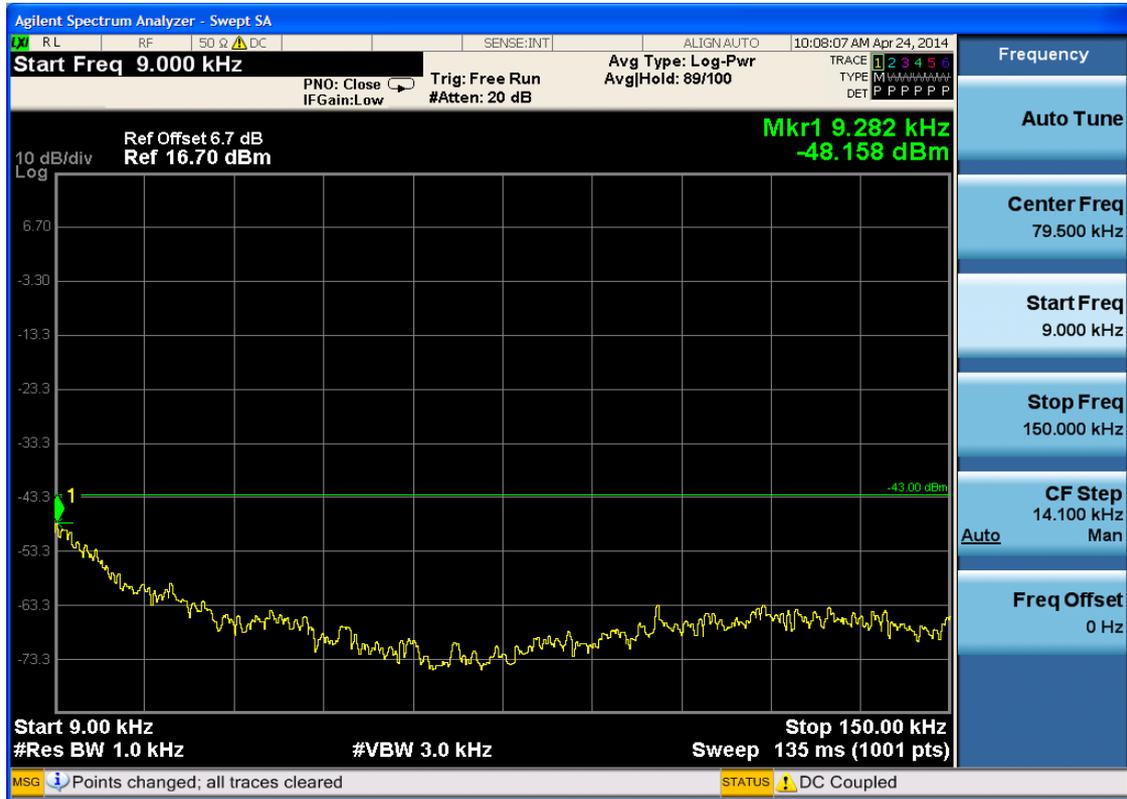






6.3.1.1.5.2 Test Channel = MCH

6.3.1.1.5.2.1 Test RB = RB1#0



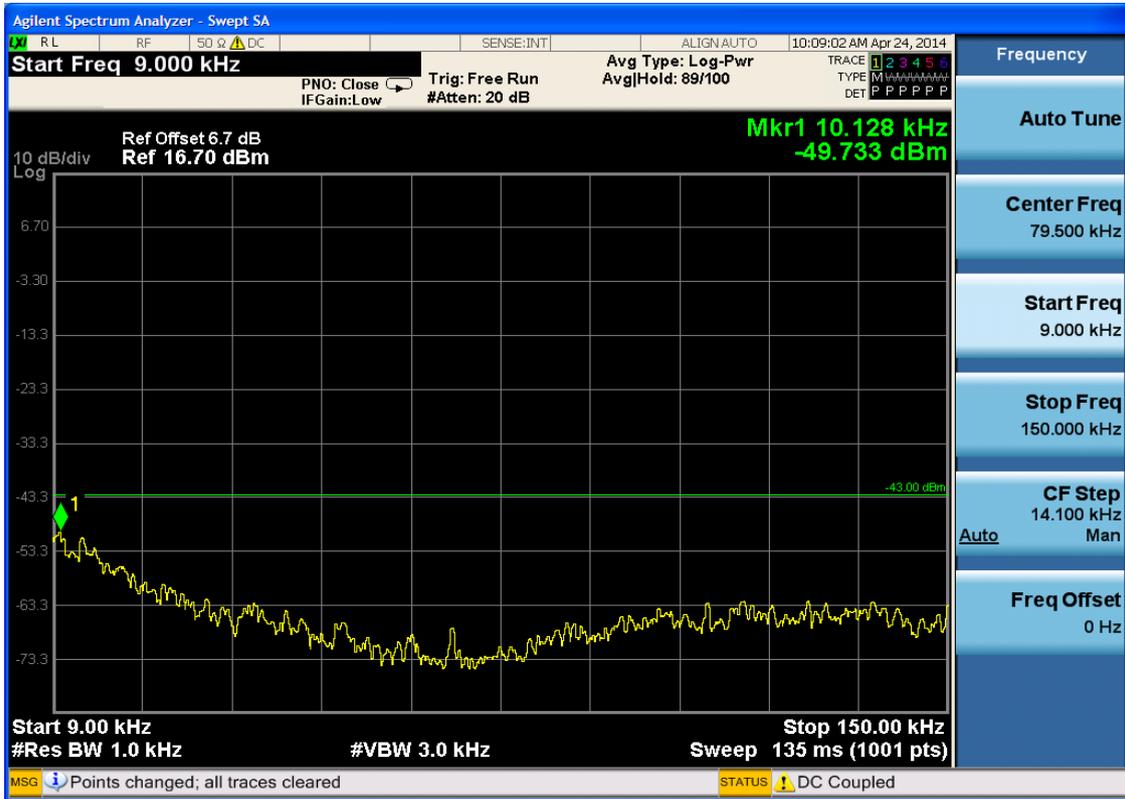




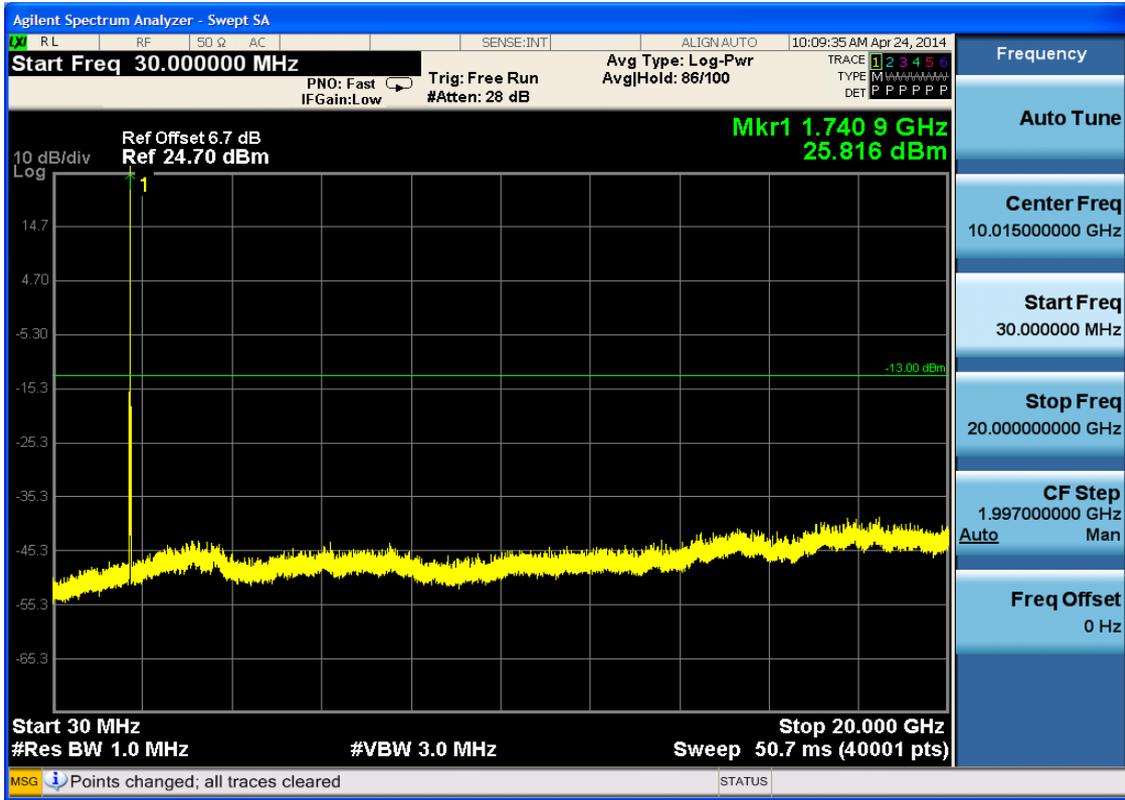


6.3.1.1.5.3 Test Channel = HCH

6.3.1.1.5.3.1 Test RB = RB1#0





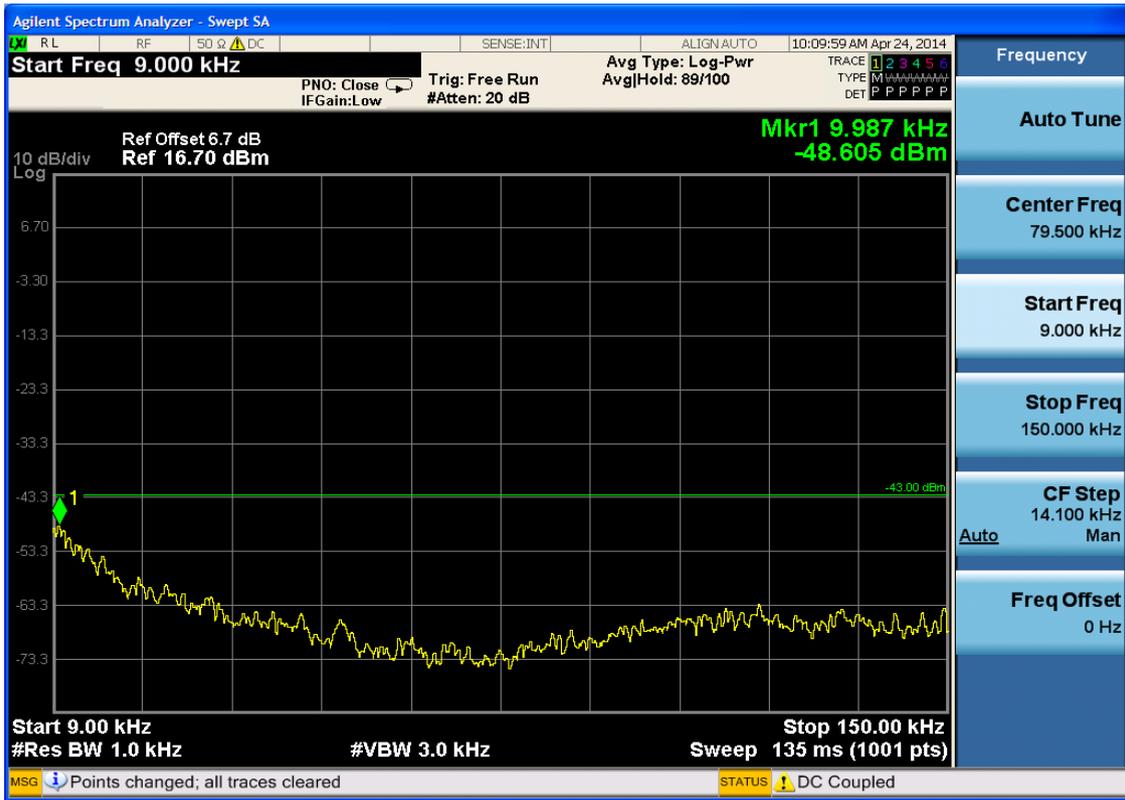




6.3.1.1.6 Test Bandwidth = 20

6.3.1.1.6.1 Test Channel = LCH

6.3.1.1.6.1.1 Test RB = RB1#0

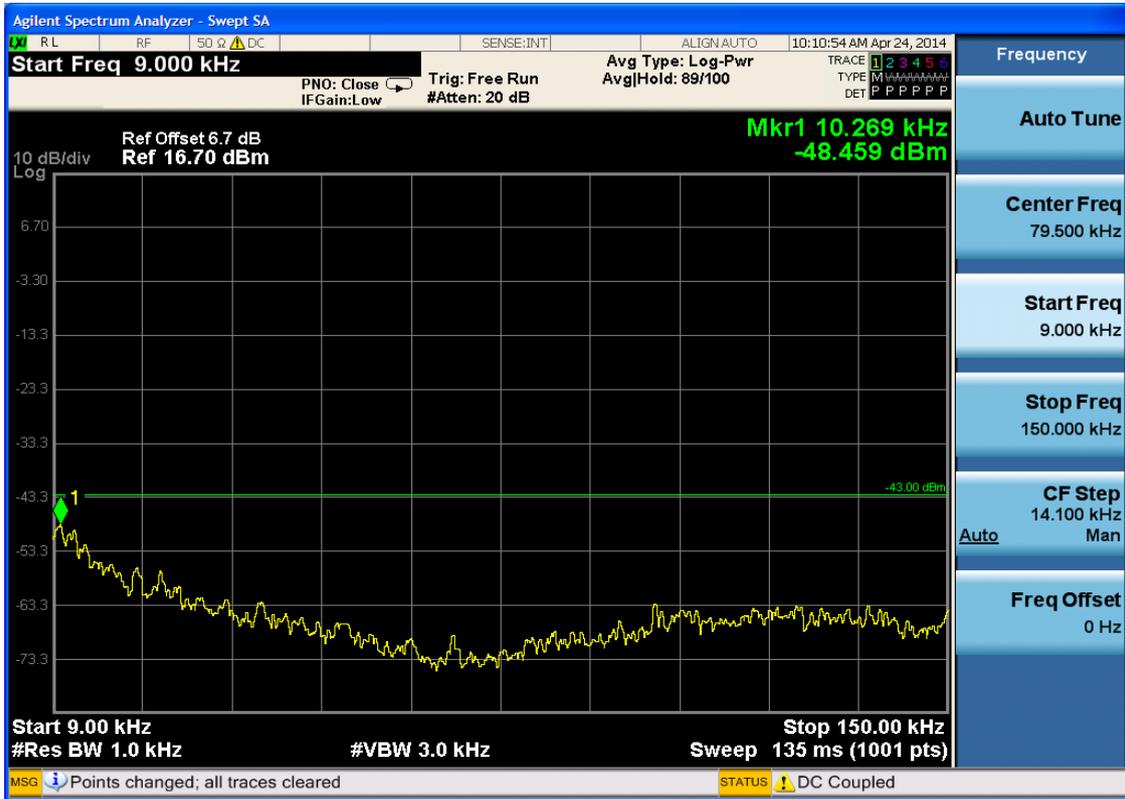






6.3.1.1.6.2 Test Channel = MCH

6.3.1.1.6.2.1 Test RB = RB1#0



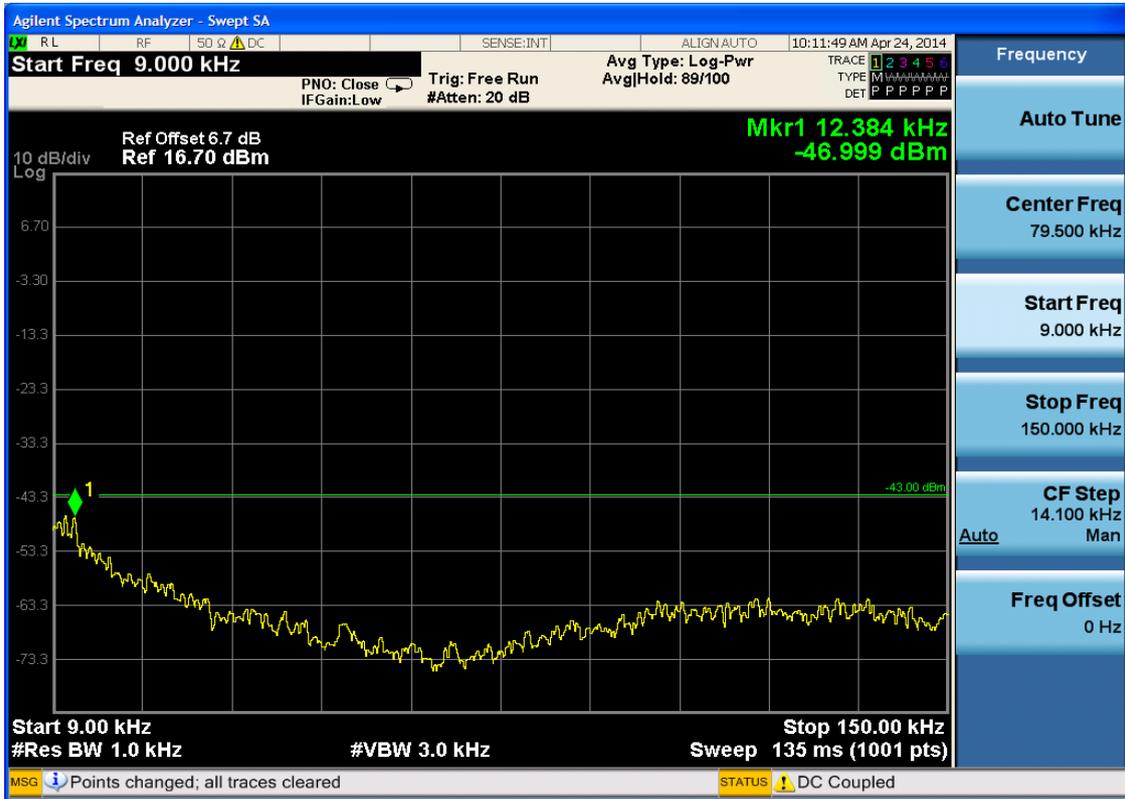




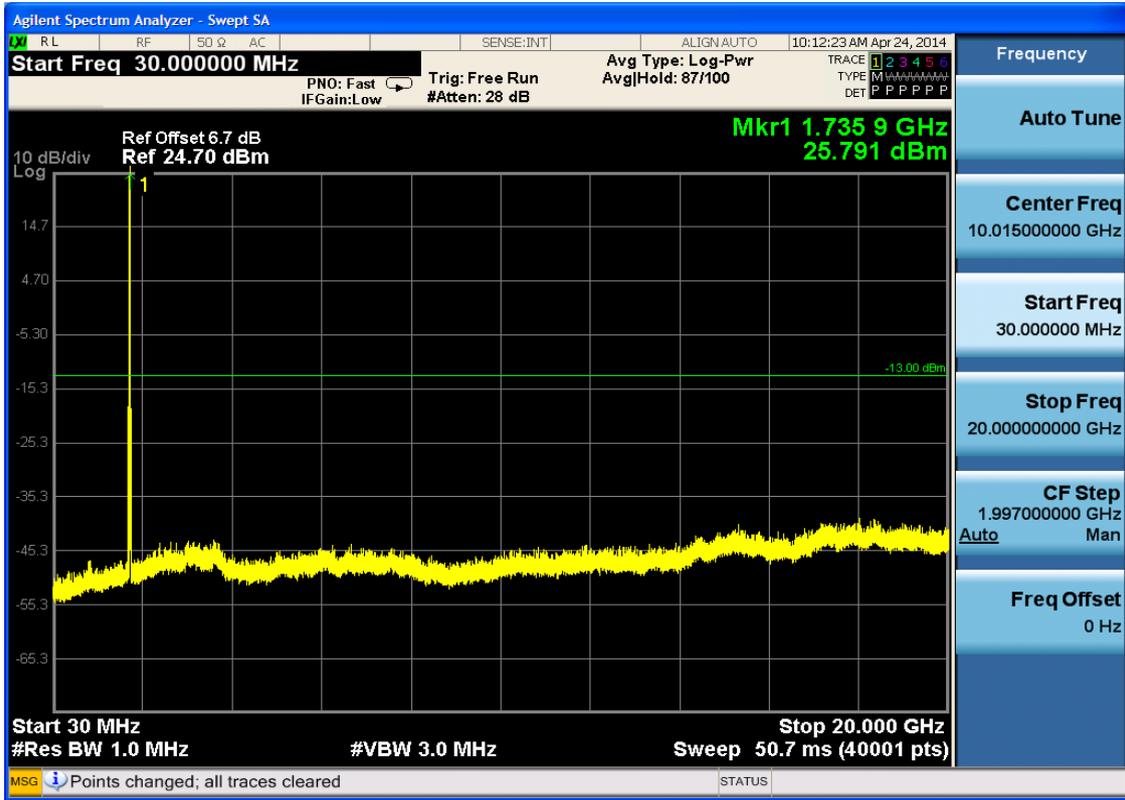


6.3.1.1.6.3 Test Channel = HCH

6.3.1.1.6.3.1 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



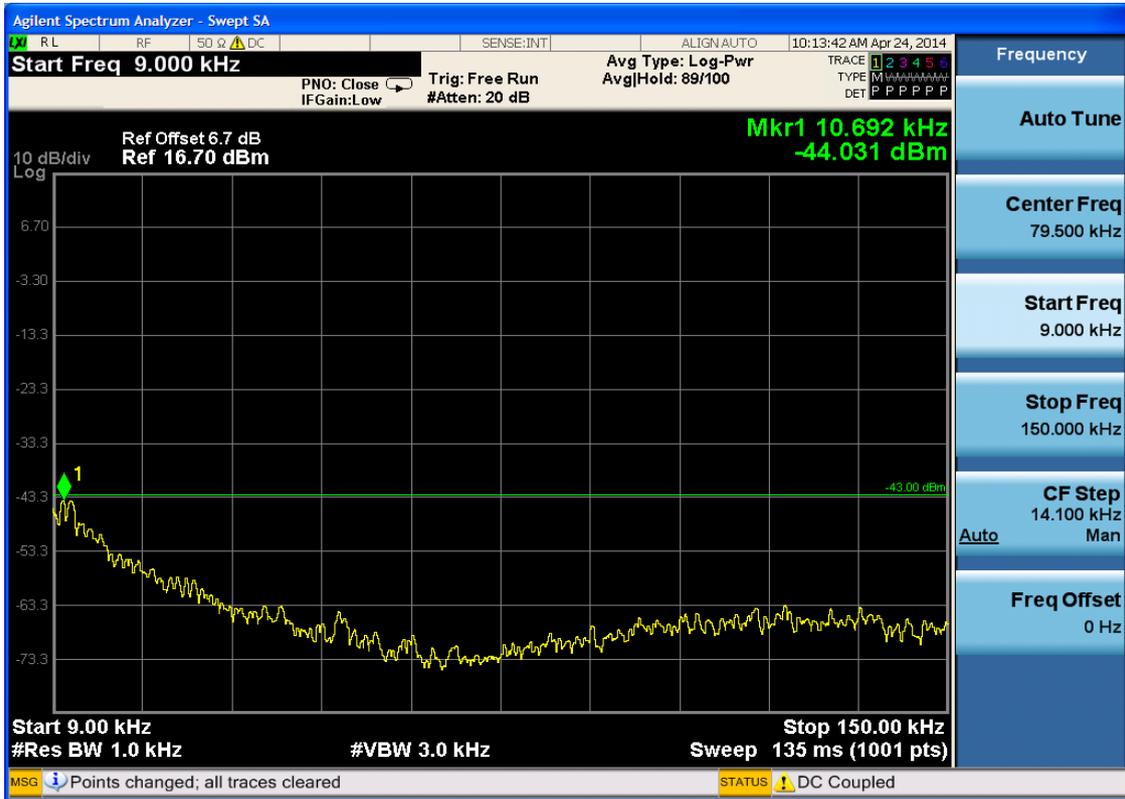






6.3.1.2.1.2 Test Channel = MCH

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





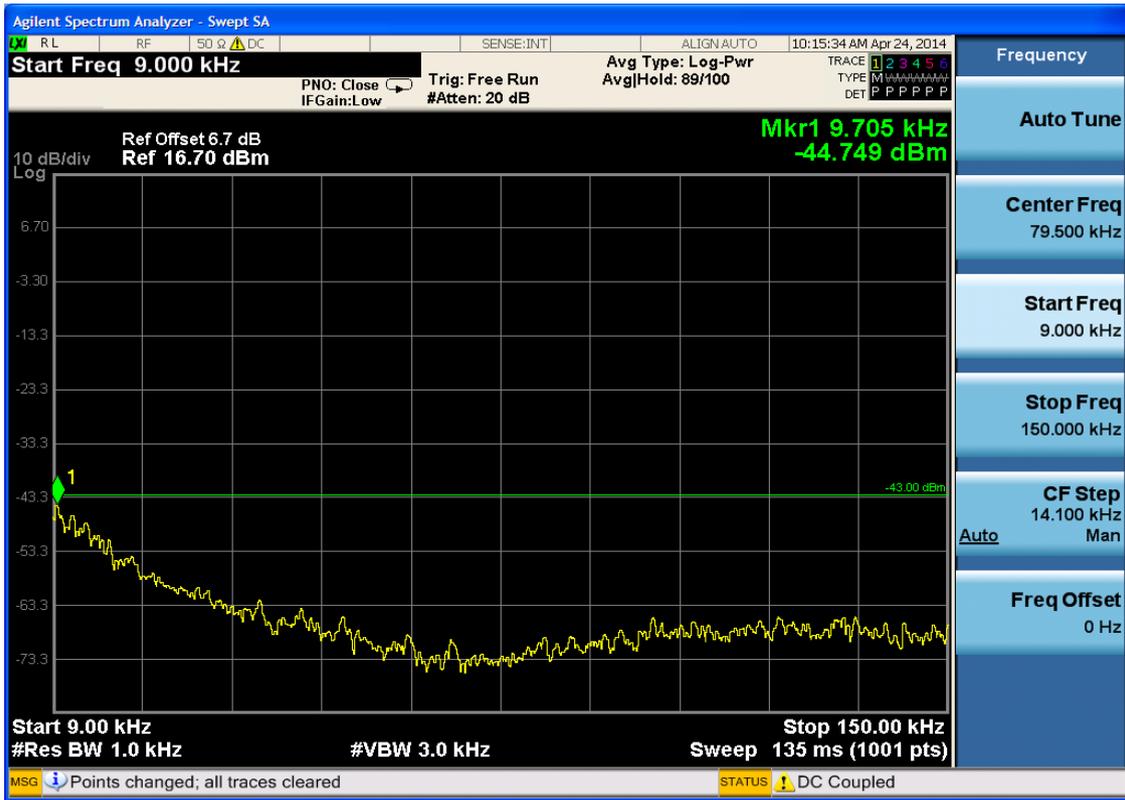




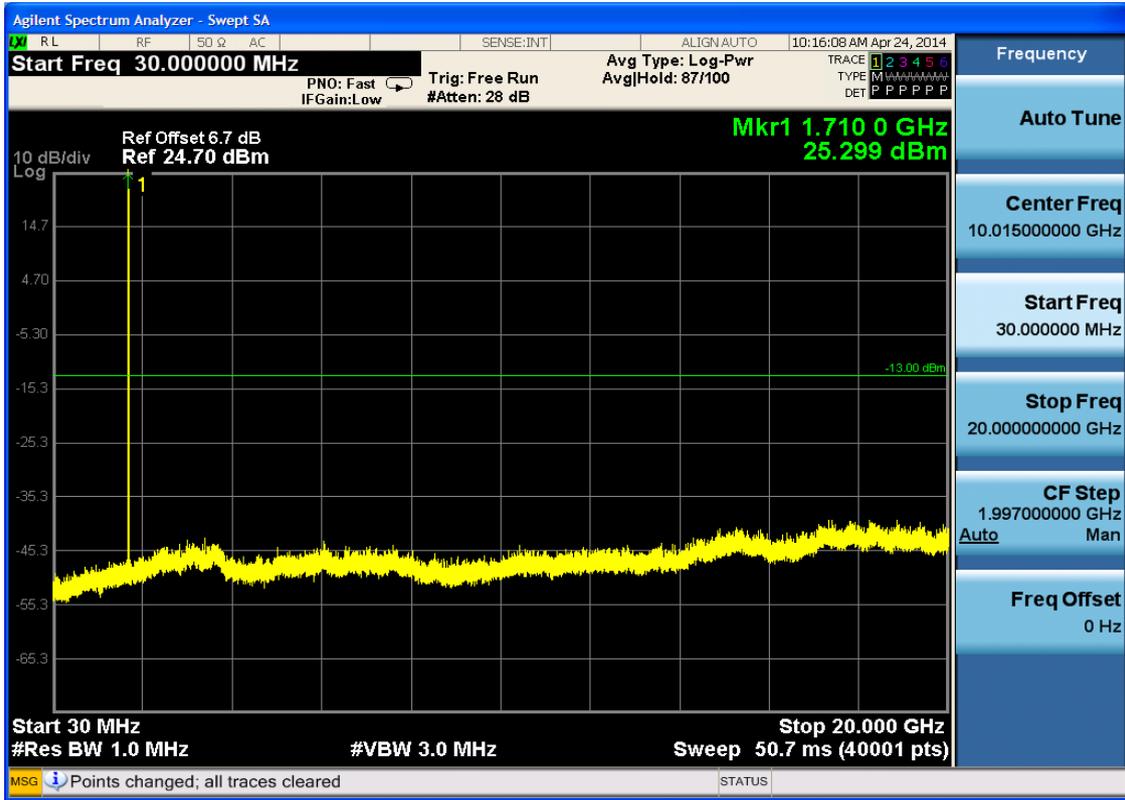
6.3.1.2.2 Test Bandwidth = 3

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 Test Channel = MCH

6.3.1.2.2.1 Test RB = RB1#0







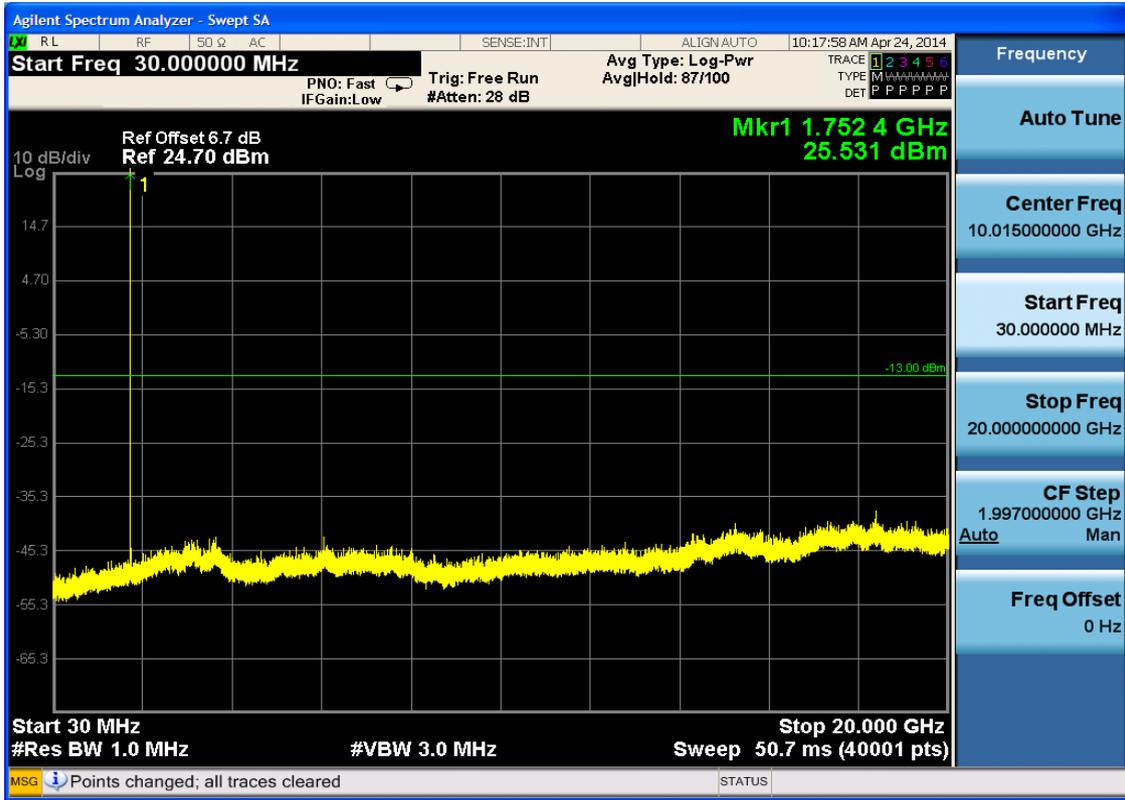


6.3.1.2.2.3 Test Channel = HCH

6.3.1.2.2.3.1 Test RB = RB1#0





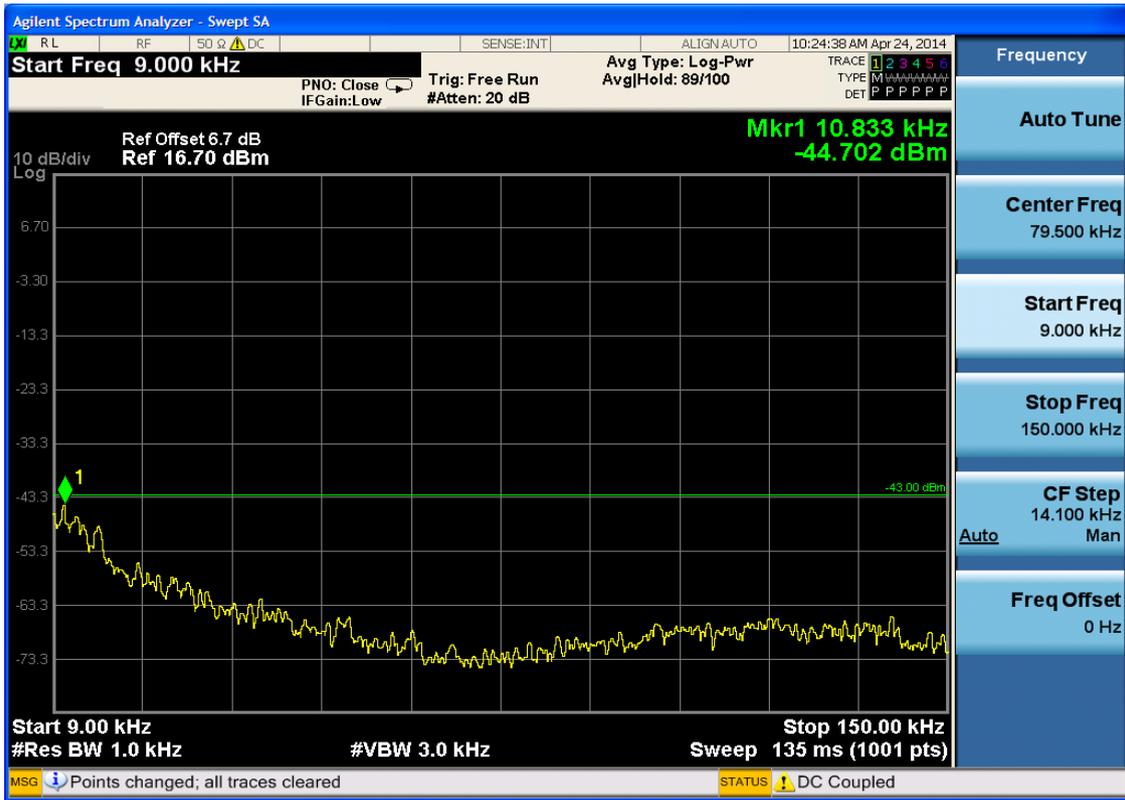


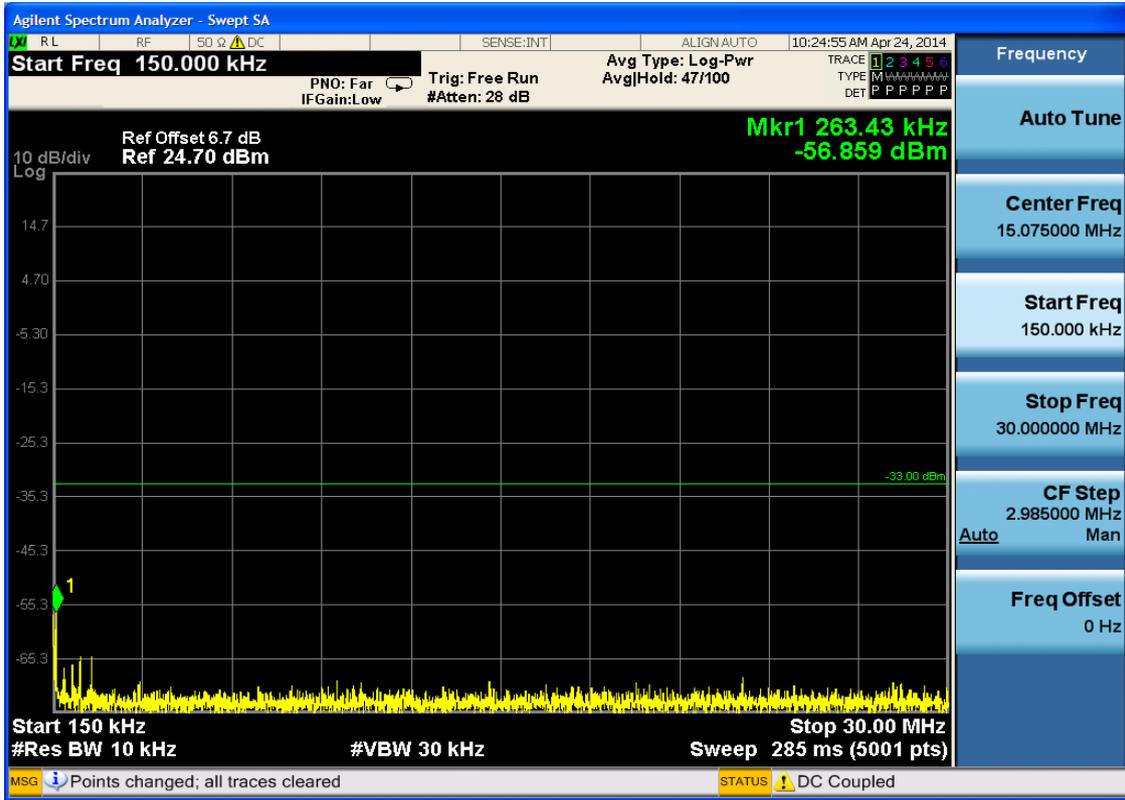


6.3.1.2.3 Test Bandwidth = 5

6.3.1.2.3.1 Test Channel = LCH

6.3.1.2.3.1.1 Test RB = RB1#0



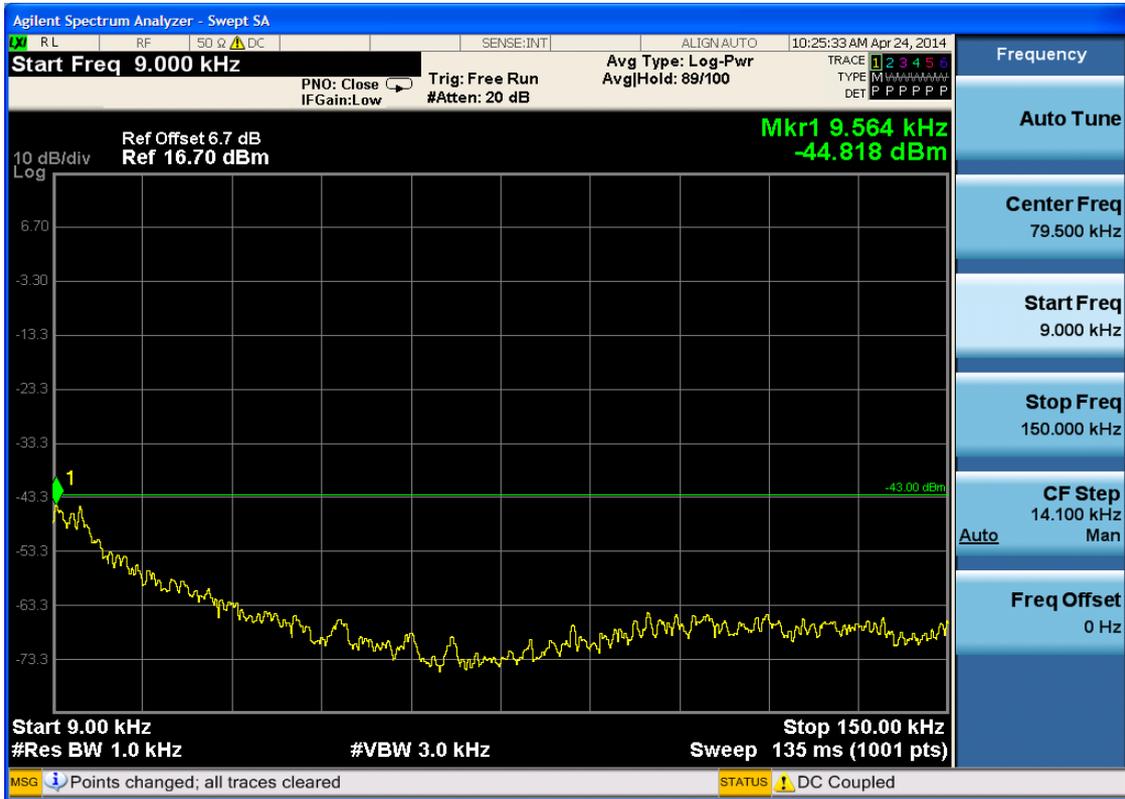


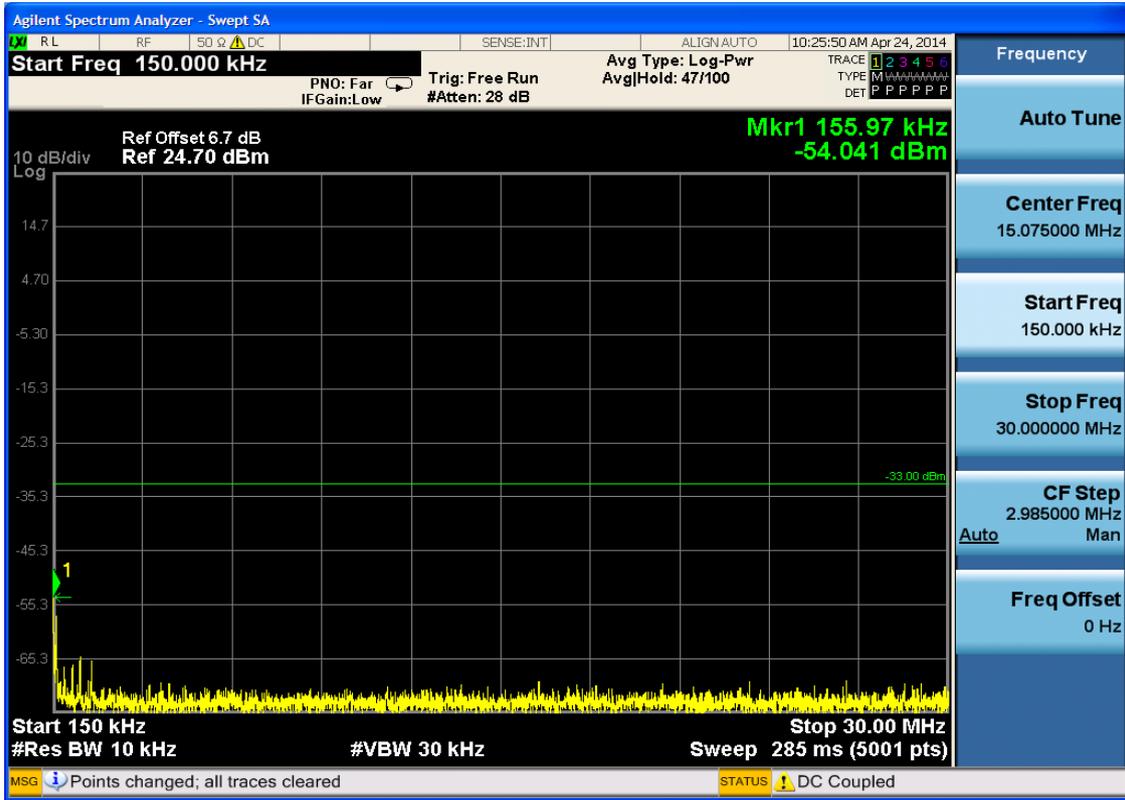




6.3.1.2.3.2 Test Channel = MCH

6.3.1.2.3.2.1 Test RB = RB1#0

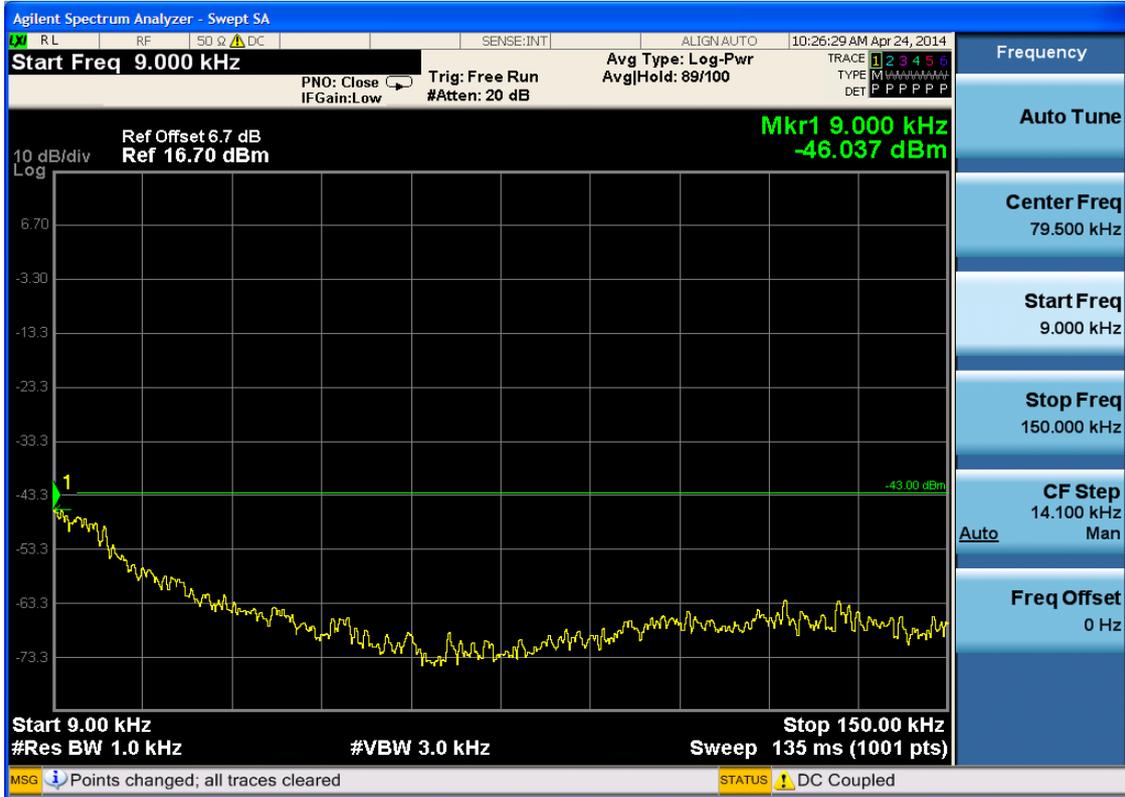


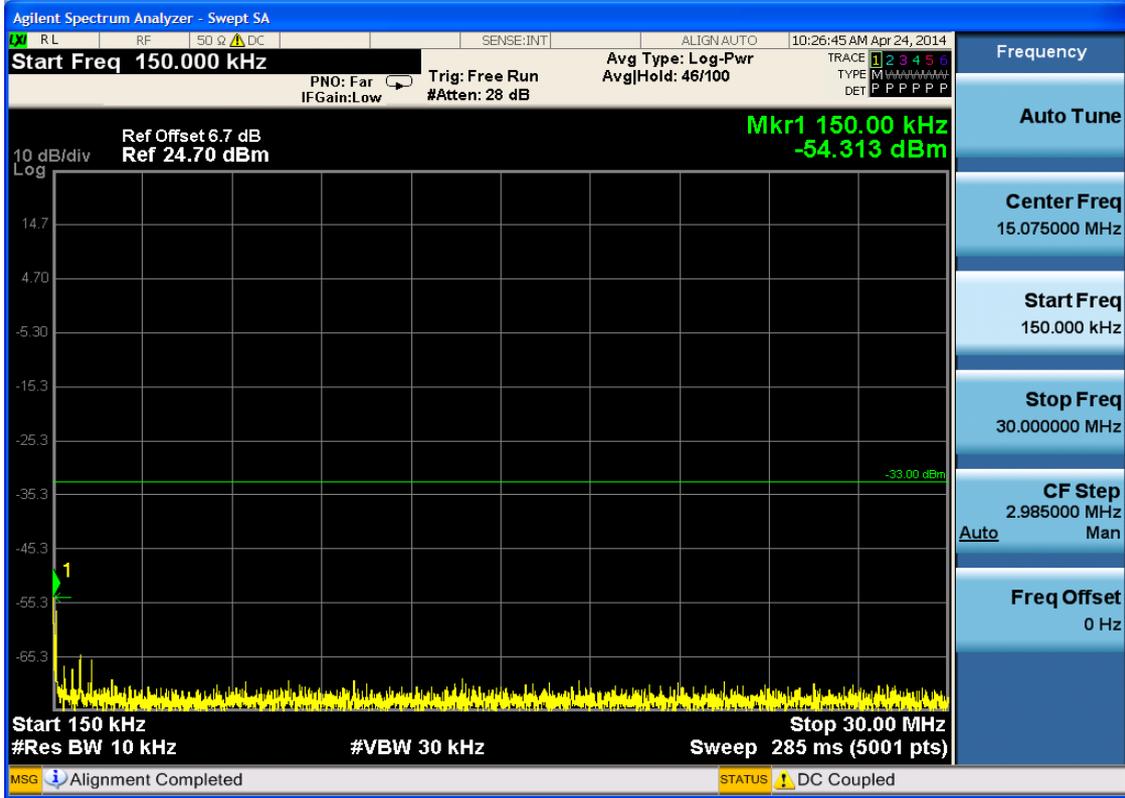




6.3.1.2.3.3 Test Channel = HCH

6.3.1.2.3.3.1 Test RB = RB1#0





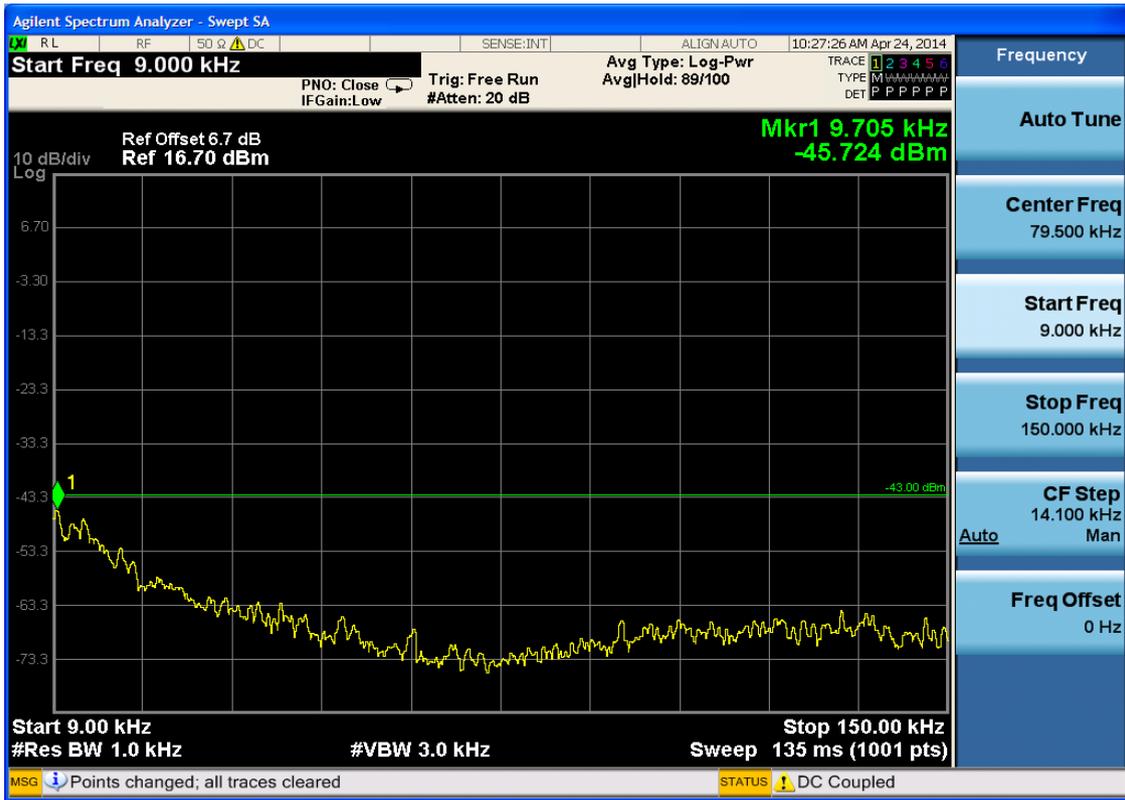




6.3.1.2.4 Test Bandwidth = 10

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



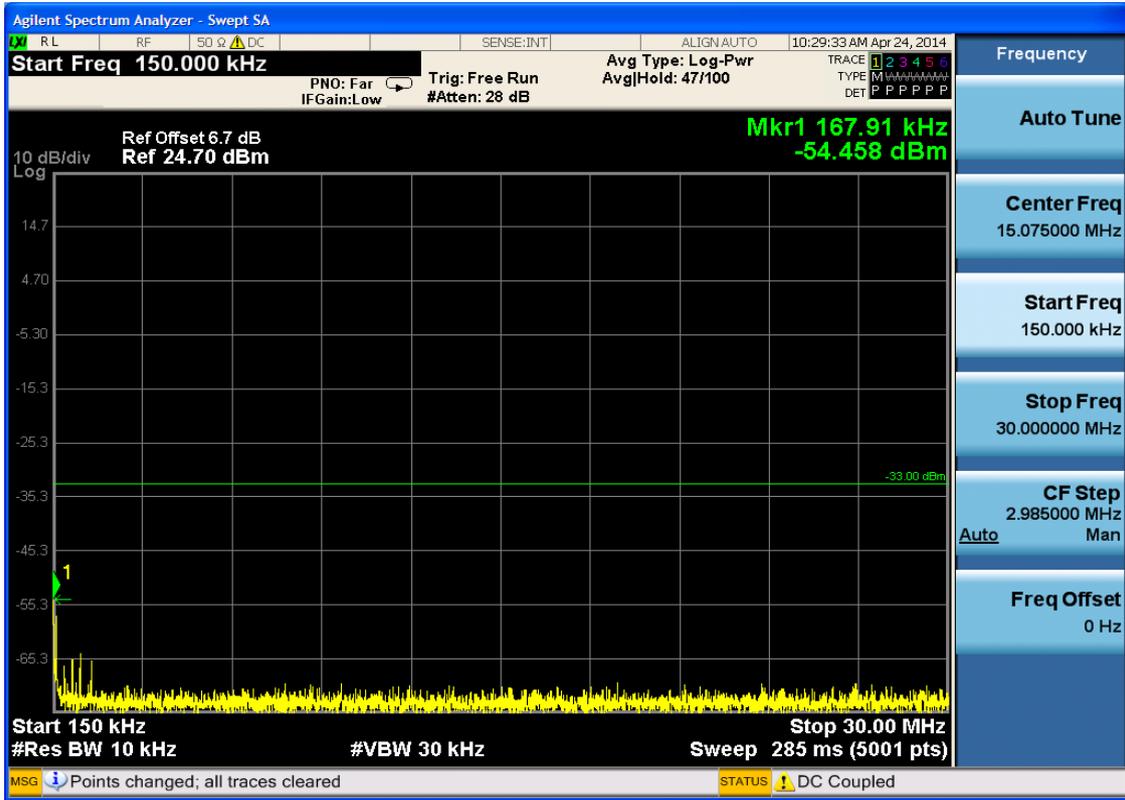




6.3.1.2.4.3 Test Channel = HCH

6.3.1.2.4.3.1 Test RB = RB1#0





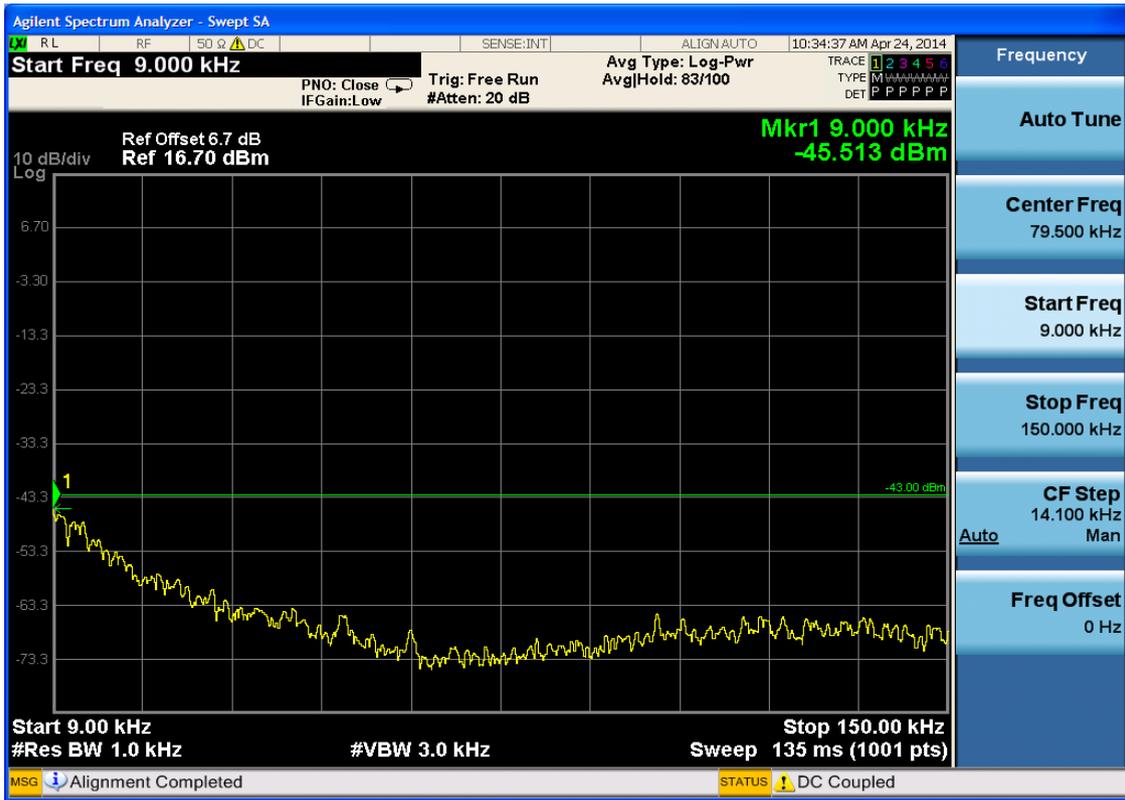




6.3.1.2.5 Test Bandwidth = 15

6.3.1.2.5.1 Test Channel = LCH

6.3.1.2.5.1.1 Test RB = RB1#0







6.3.1.2.5.2 Test Channel = MCH

6.3.1.2.5.2.1 Test RB = RB1#0



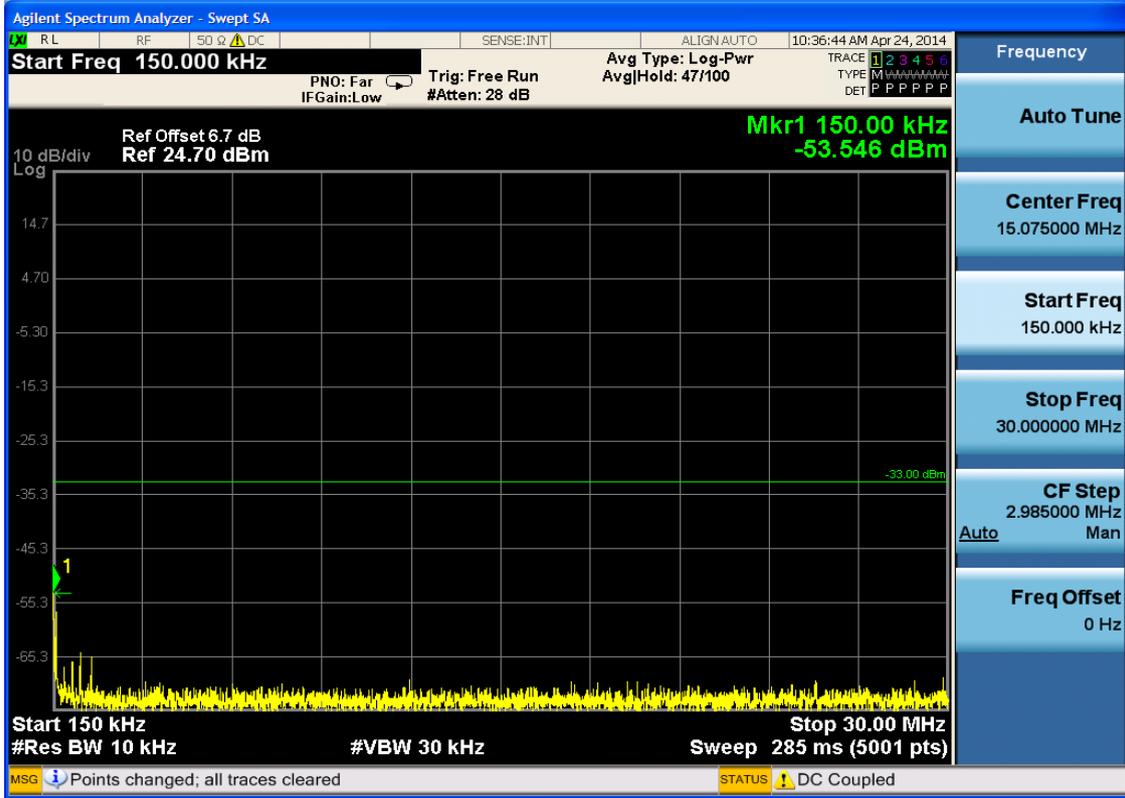




6.3.1.2.5.3 Test Channel = HCH

6.3.1.2.5.3.1 Test RB = RB1#0







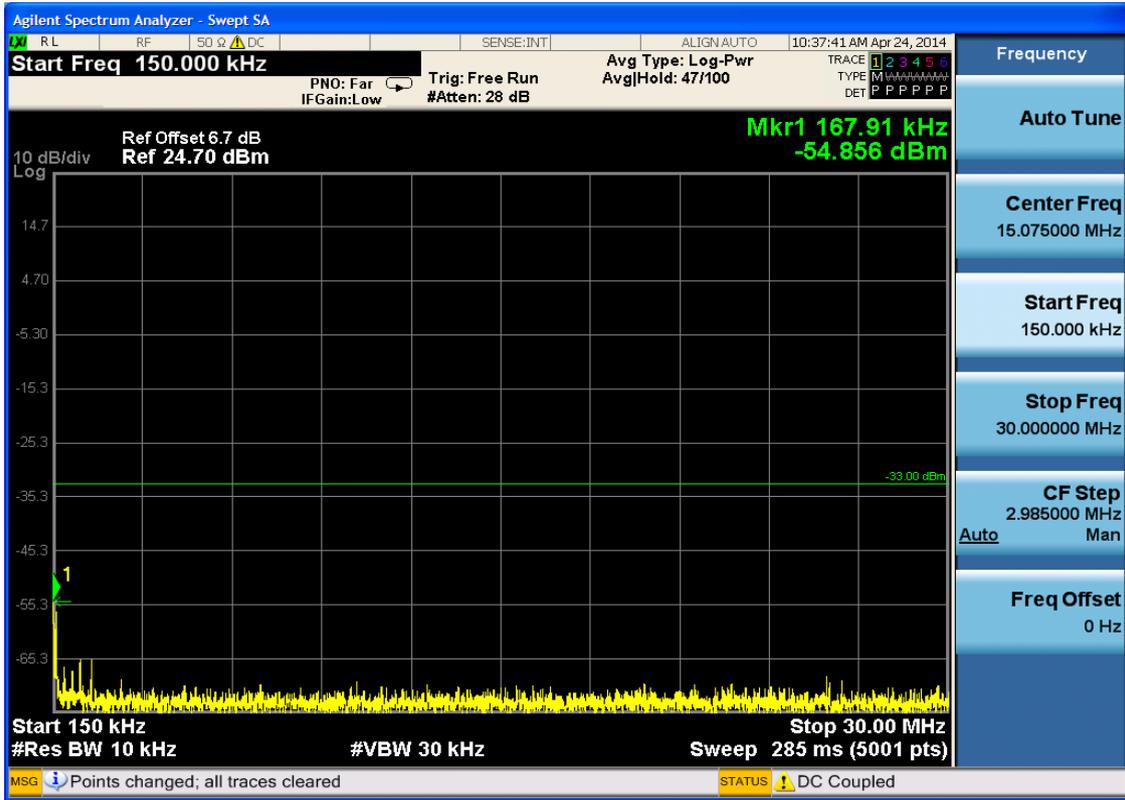


6.3.1.2.6 Test Bandwidth = 20

6.3.1.2.6.1 Test Channel = LCH

6.3.1.2.6.1.1 Test RB = RB1#0









6.3.1.2.6.2 Test Channel = MCH

6.3.1.2.6.2.1 Test RB = RB1#0

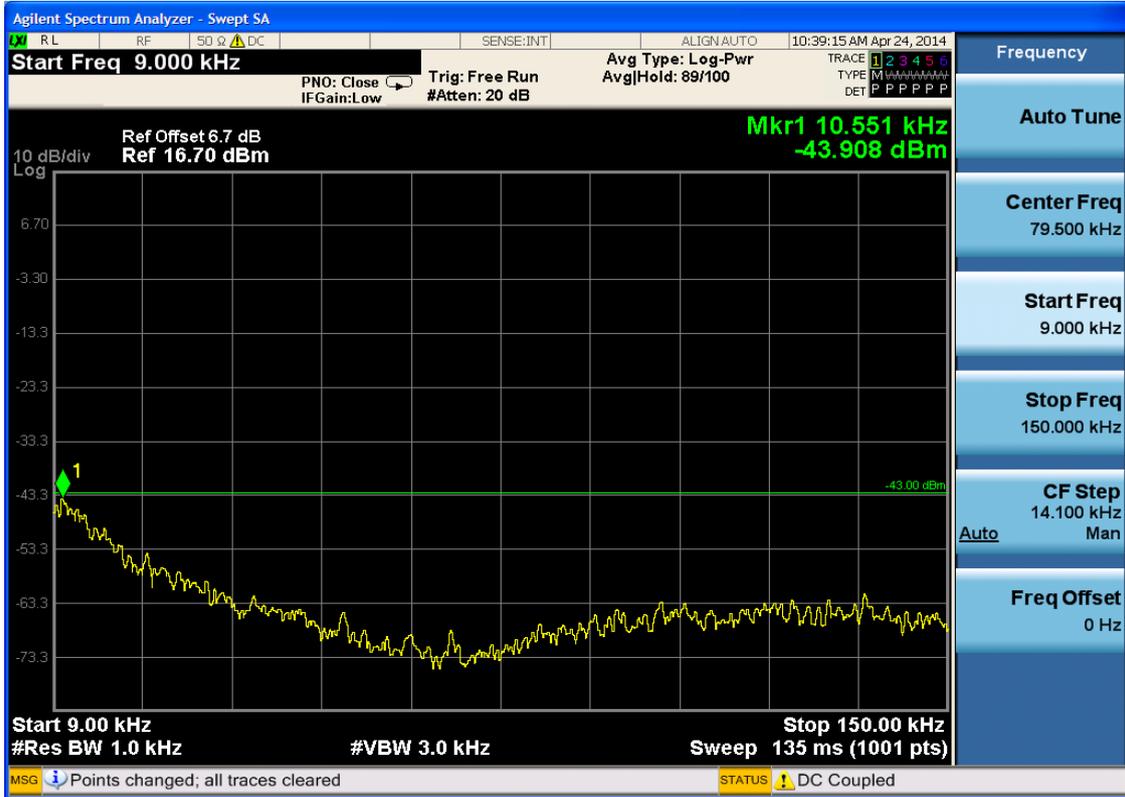




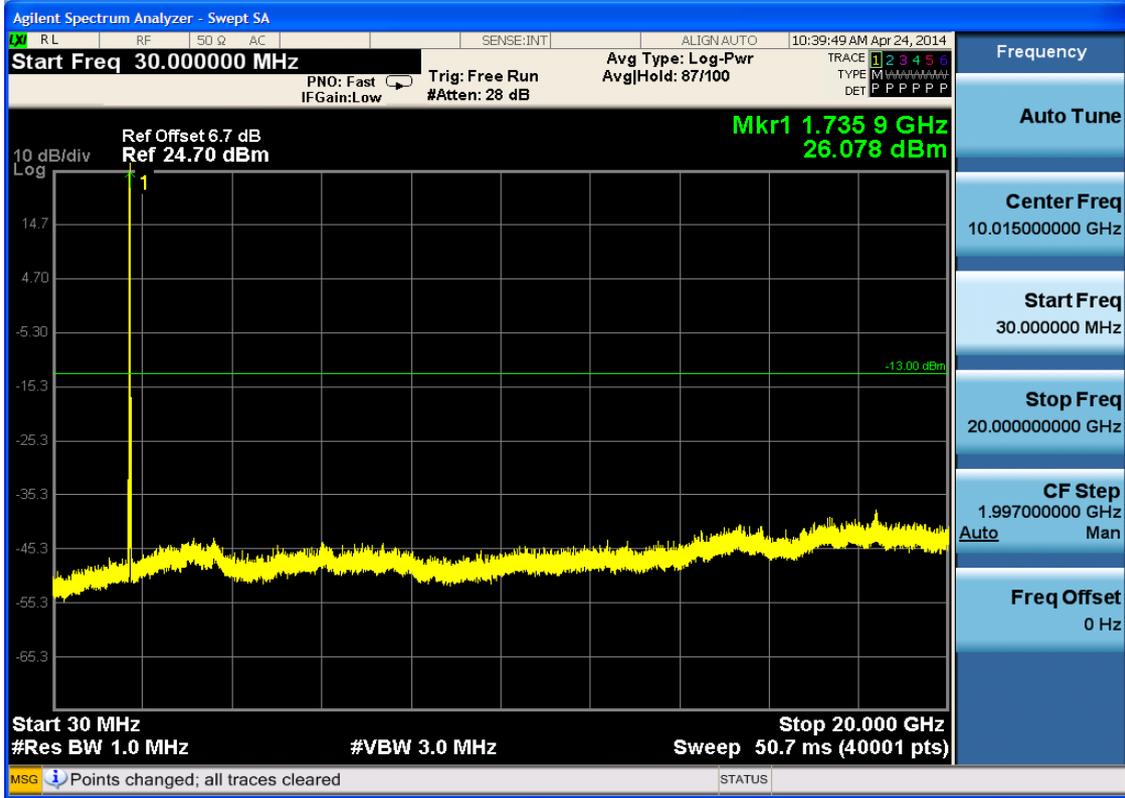


6.3.1.2.6.3 Test Channel = HCH

6.3.1.2.6.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

Note:

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

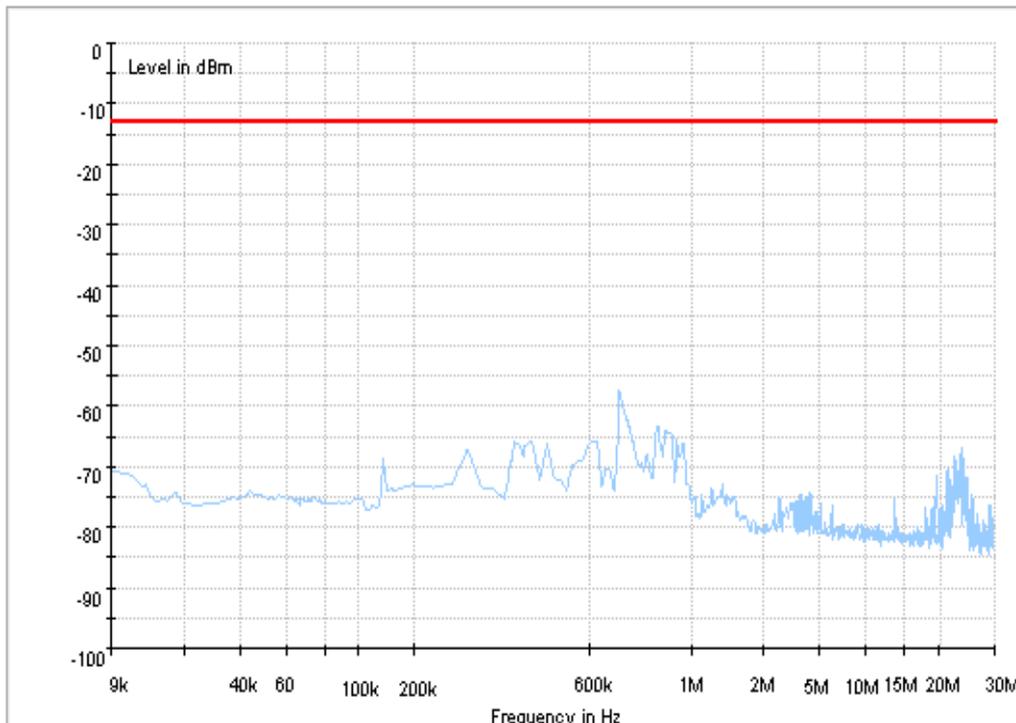
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

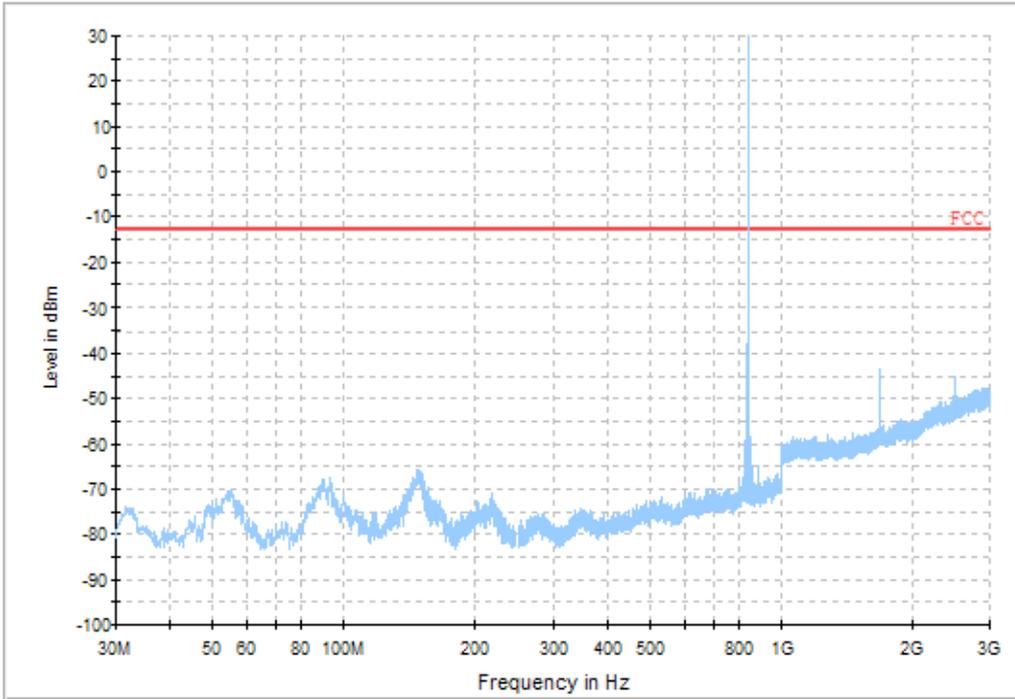
7.1 For GSM

7.1.1 Test Band = GSM850

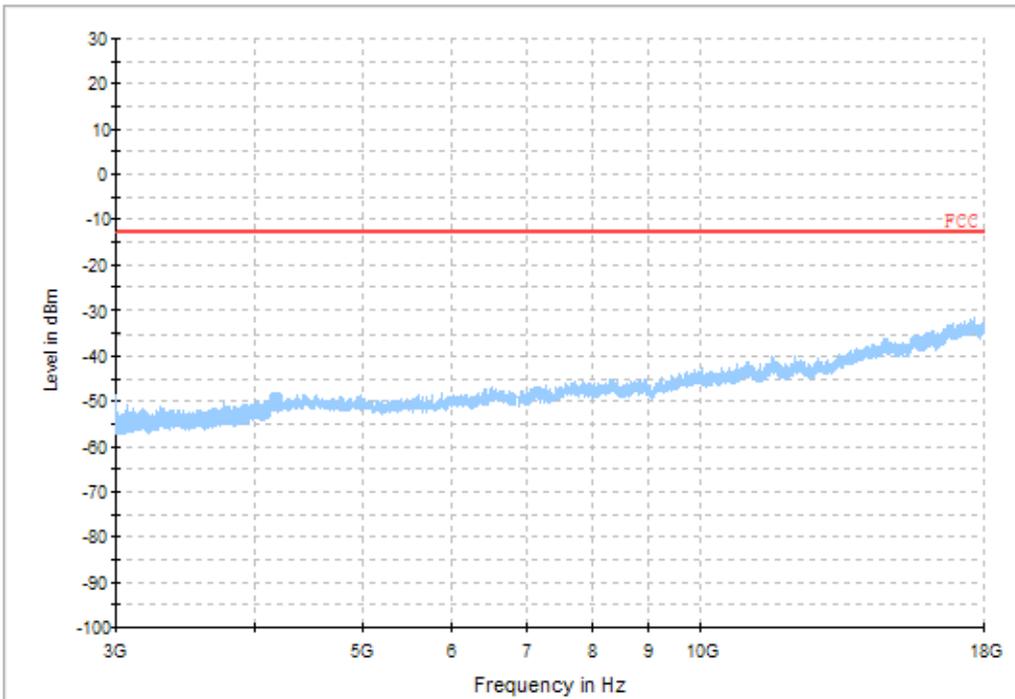
7.1.1.1 Test Mode = GSM/TM1



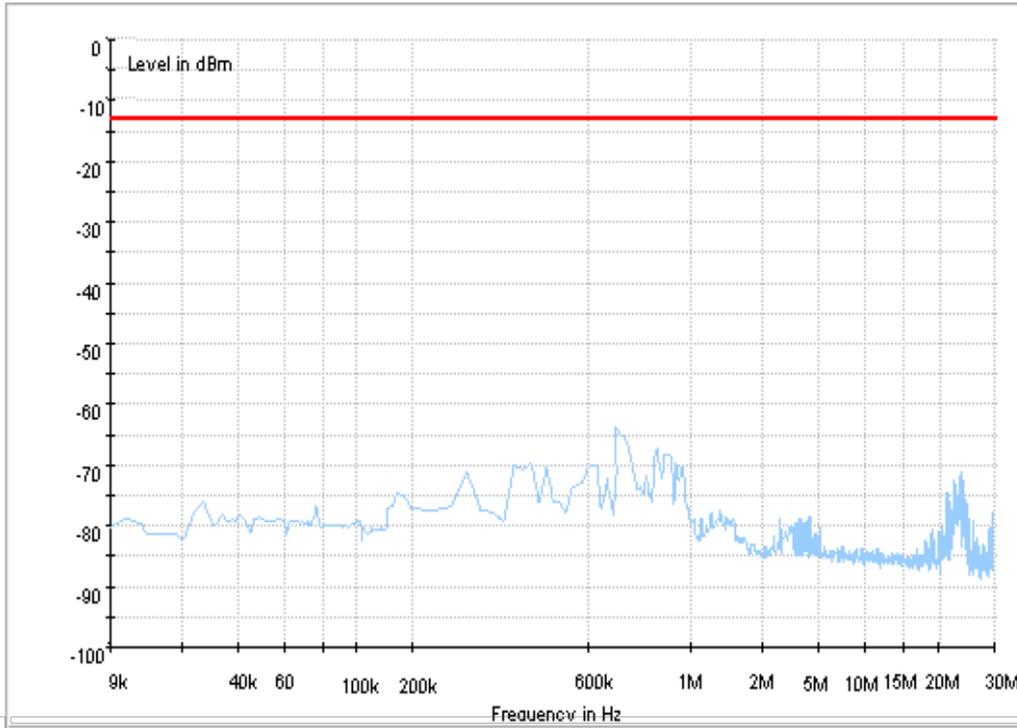
Copy of FCC PART22 GSM850_L



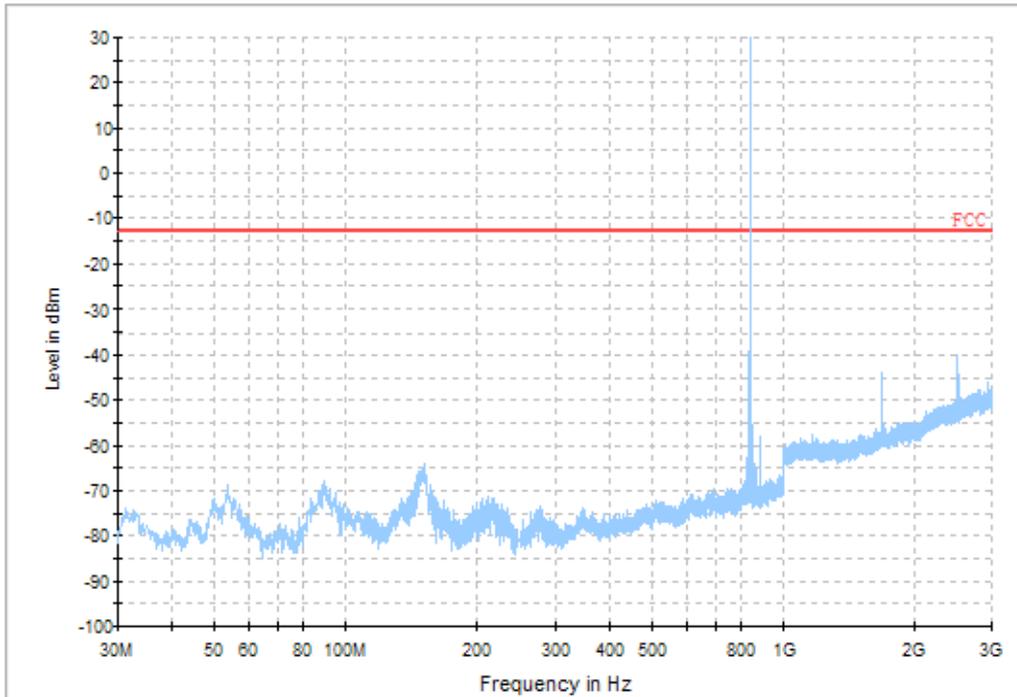
Copy of FCC PART22 GSM850_H



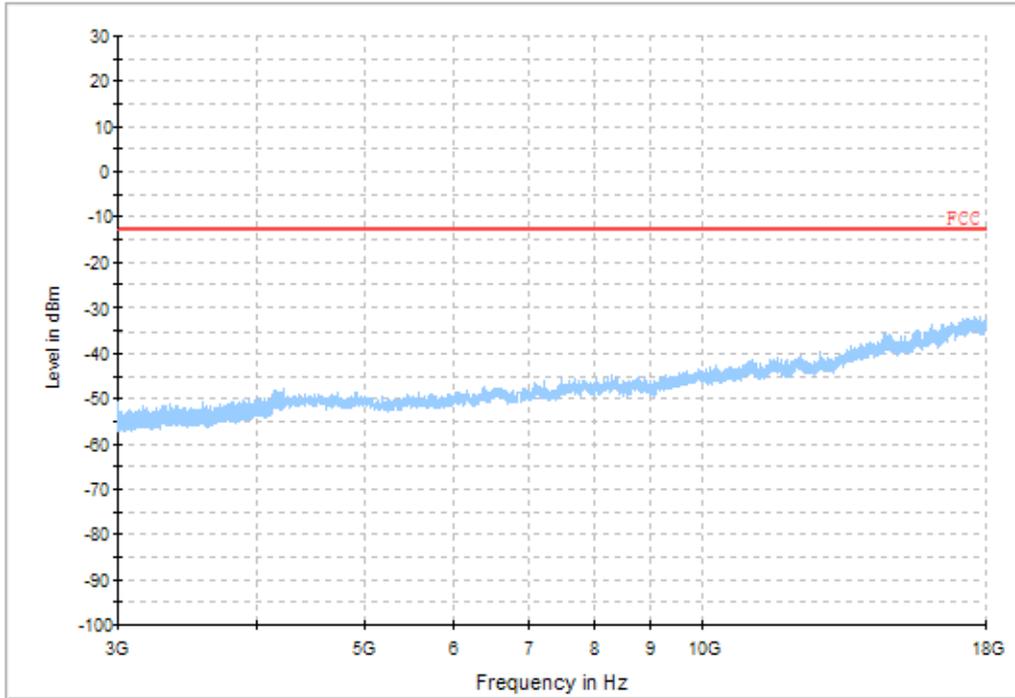
7.1.1.2 Test Mode = GSM/TM2



Copy of FCC PART22 GSM850_L



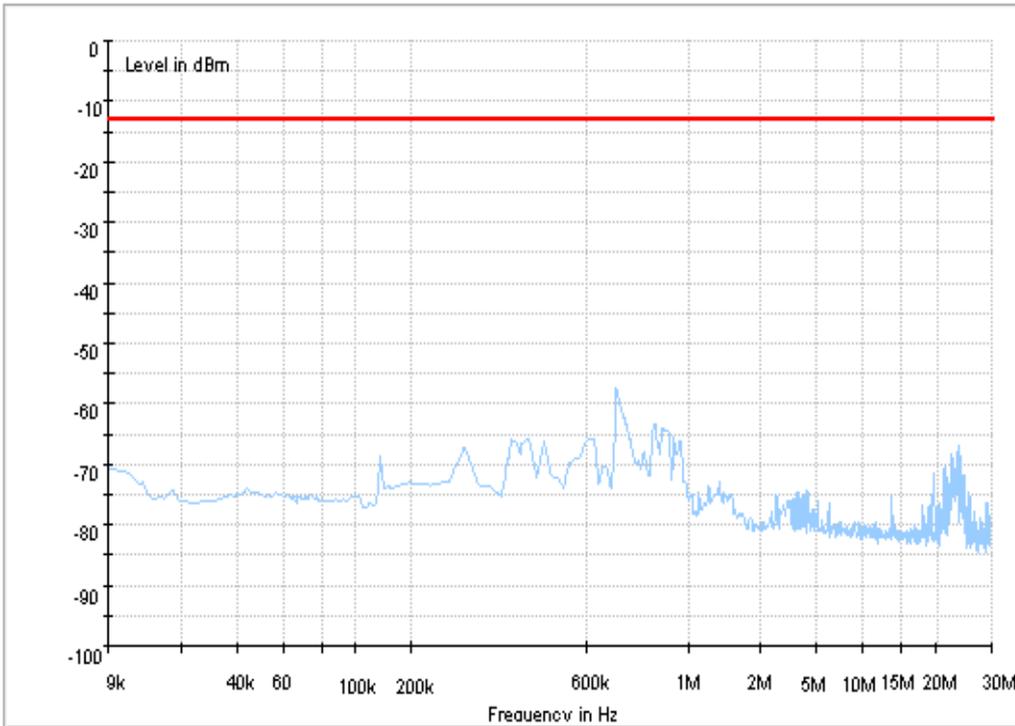
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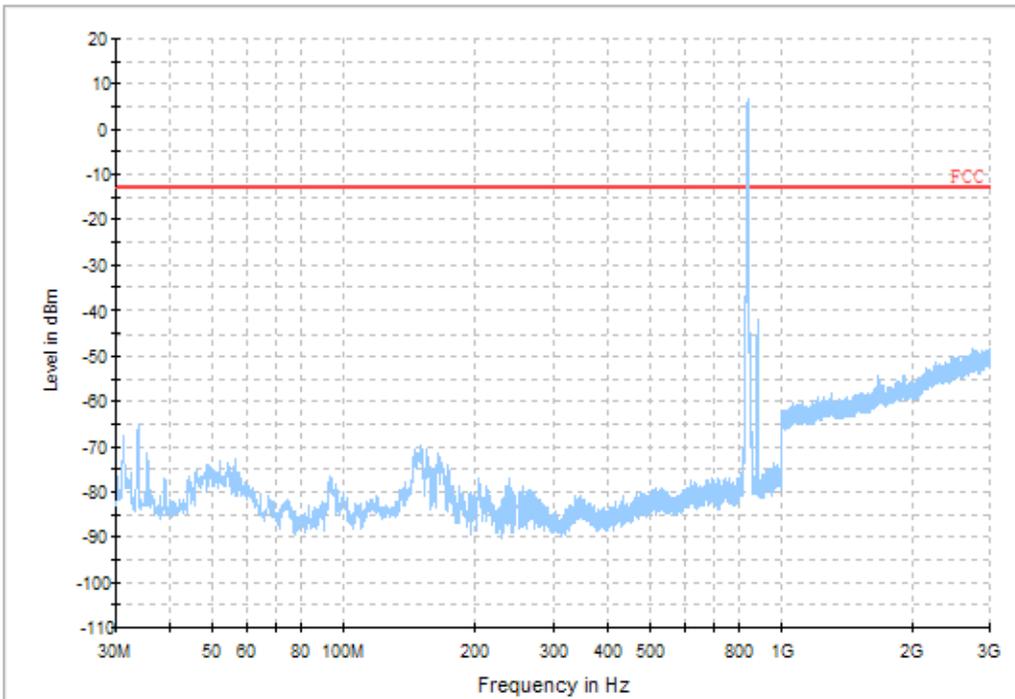
7.2 For UMTS

7.2.1 Test Band = WCDMA850

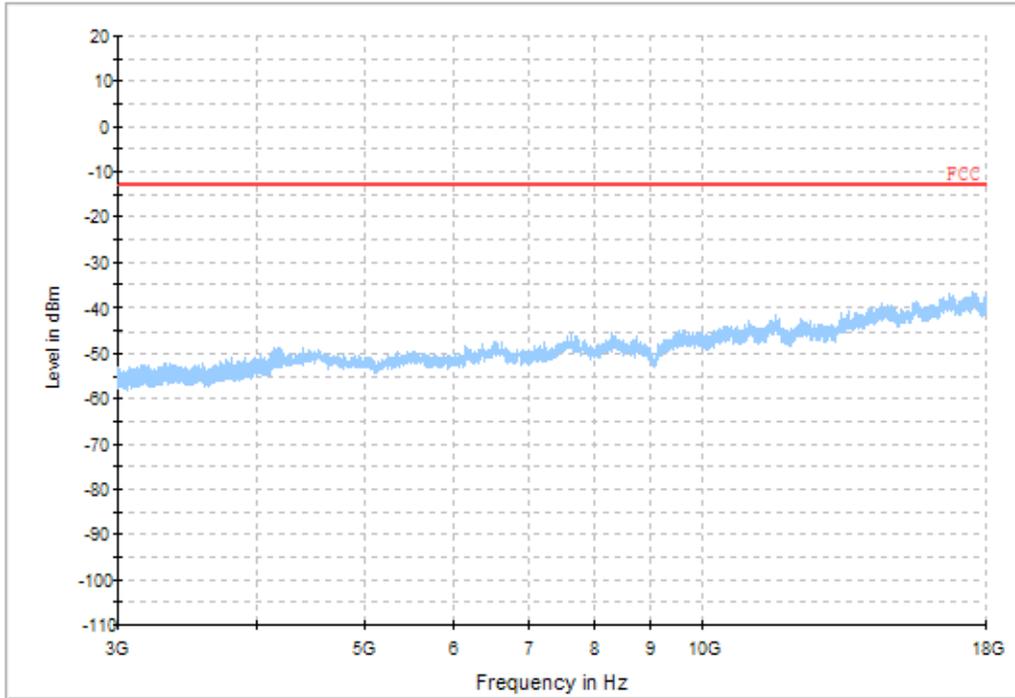
7.2.1.1 Test Mode = UMTS/TM1



Copy of FCC PART22 WCDMA850_L

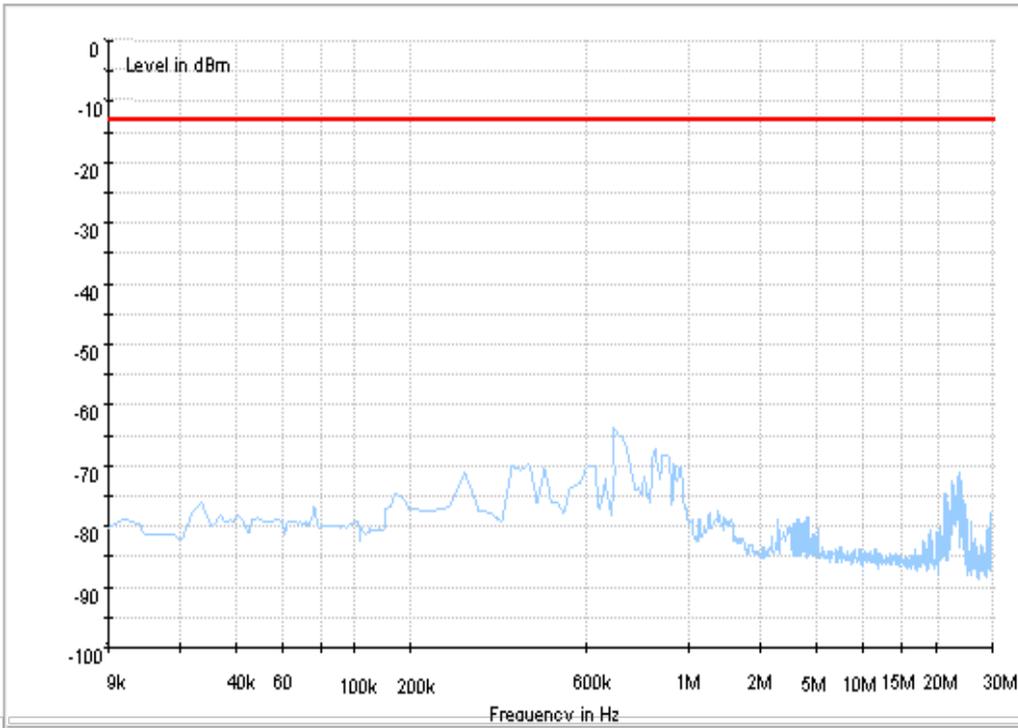


Copy of FCC PART22 WCDMA850_H

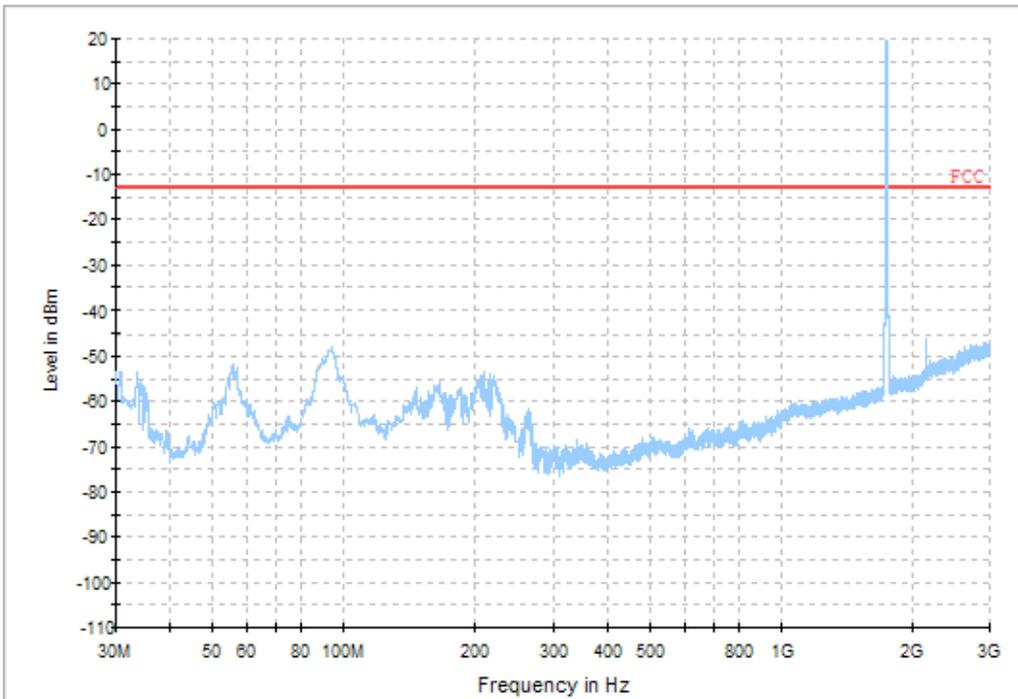


7.2.2 Test Band = WCDMA1700

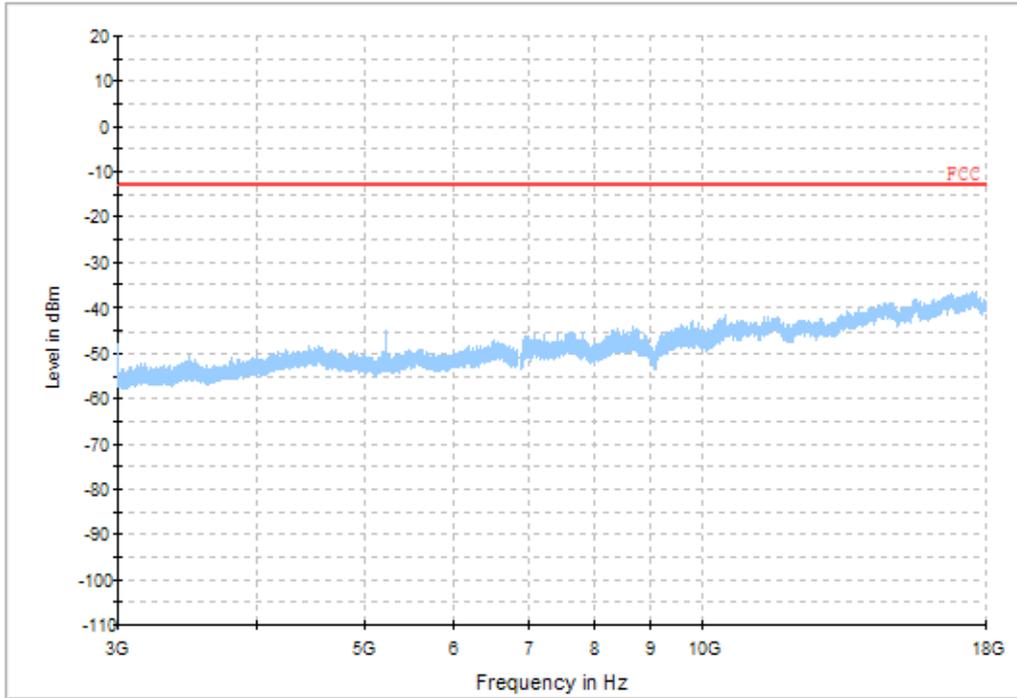
7.2.2.1 Test Mode = UMTS/TM1



Copy of FCC PART27 WCDMA1700_L



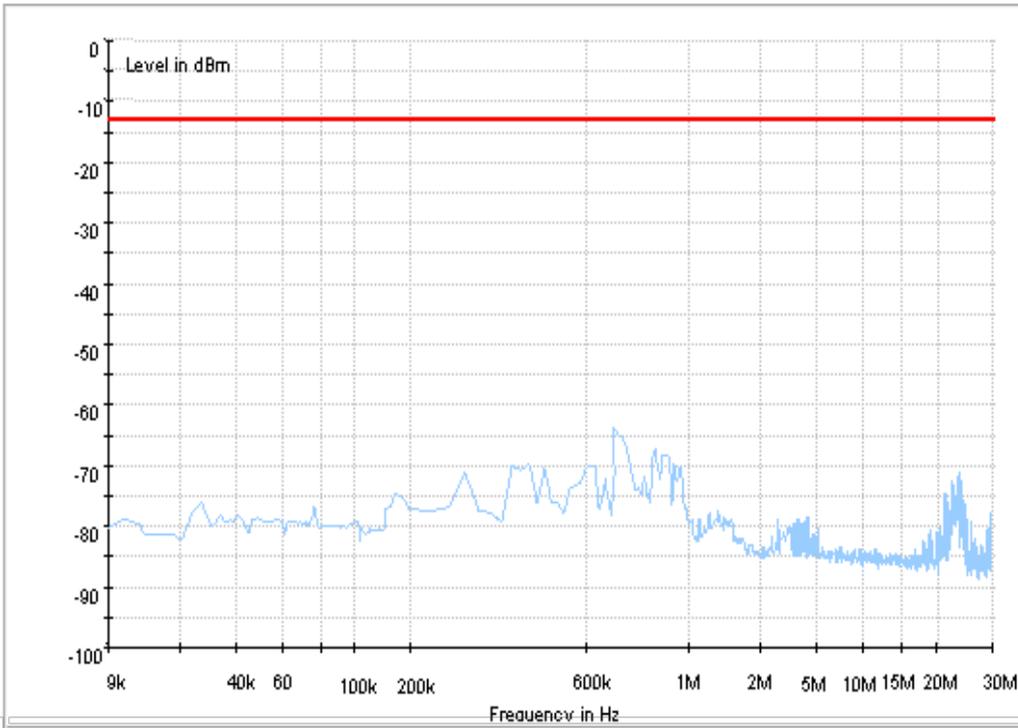
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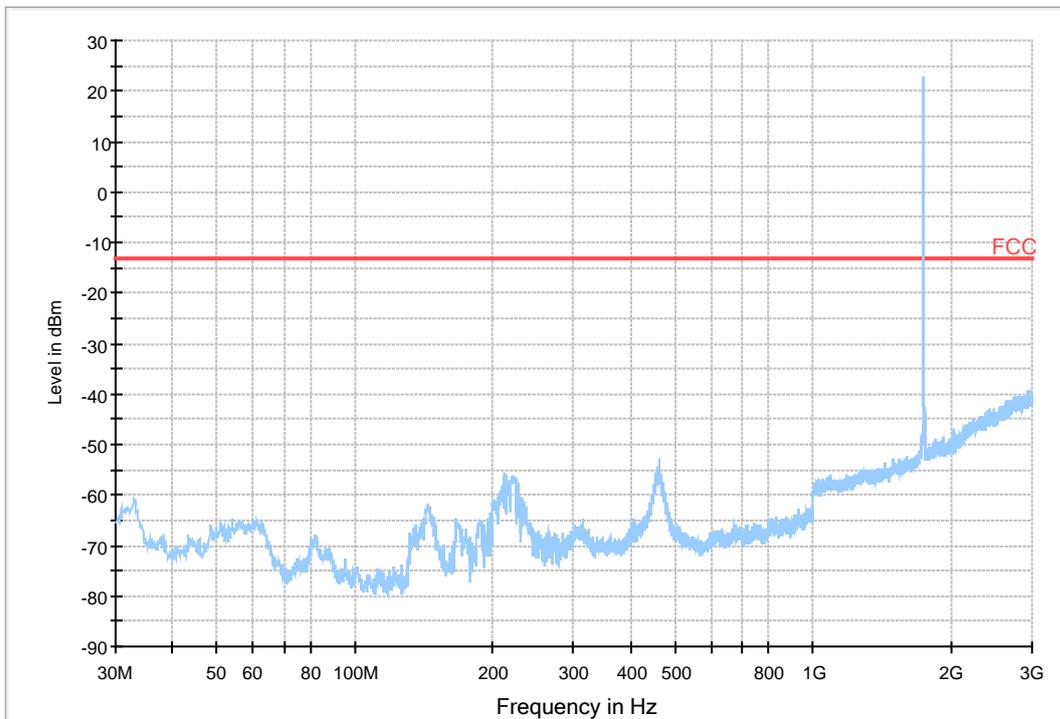
7.3 For LTE

7.3.1 Test Band = BAND4

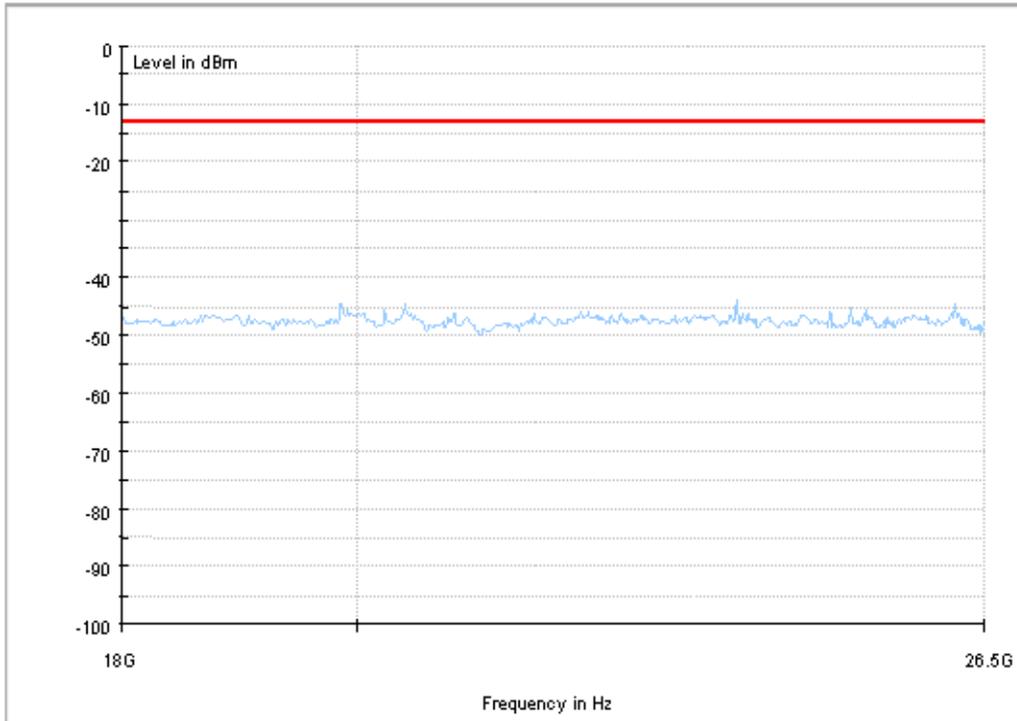
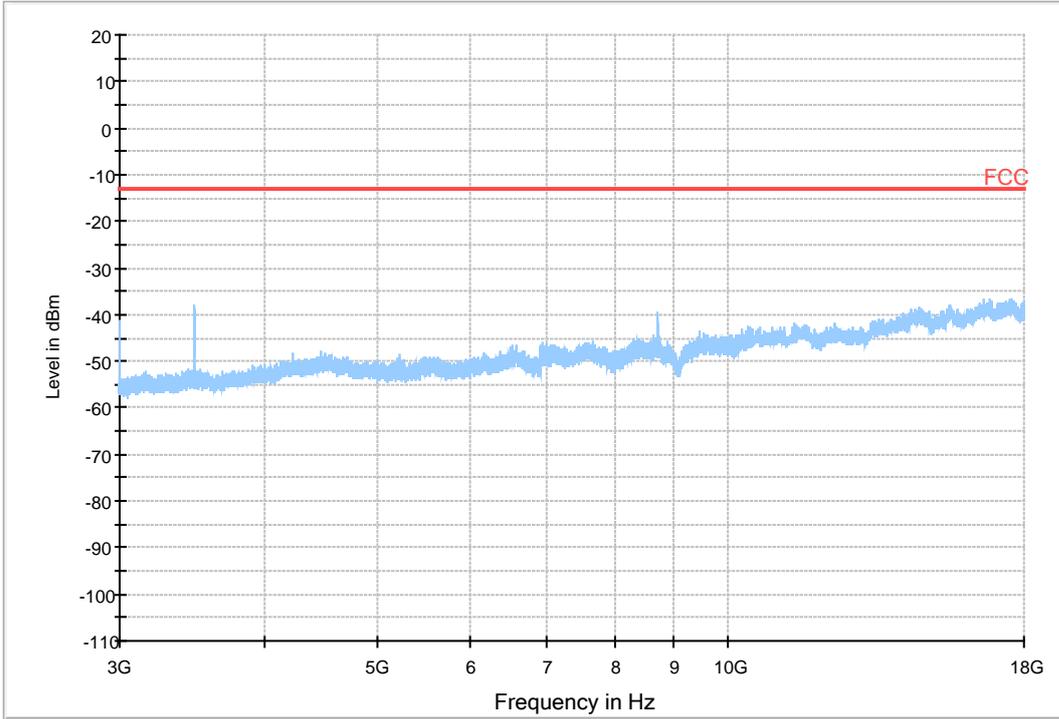
7.3.1.1 Test Bandwidth = 1.4



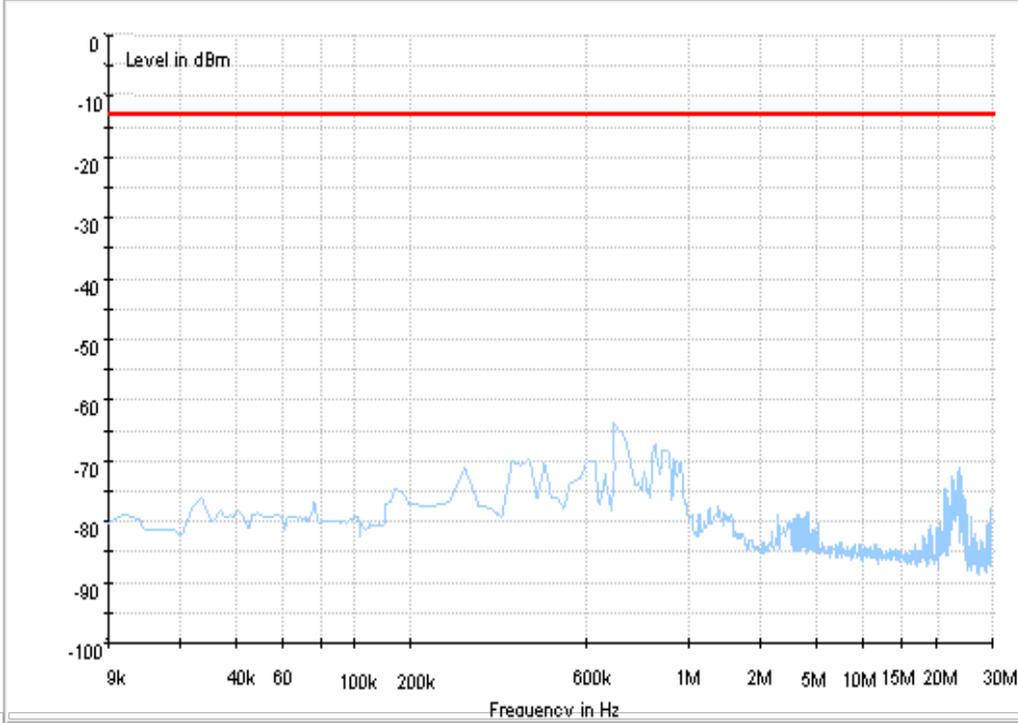
Copy of FCC PART27 LTE Band 4_L



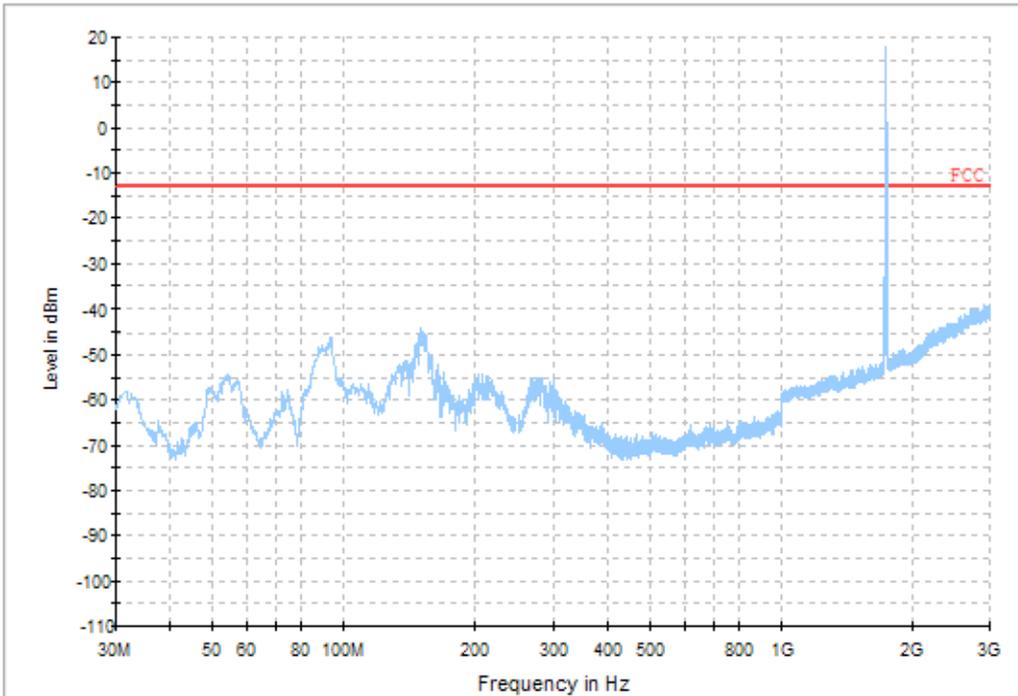
Copy of FCC PART27 LTE Band 4_H



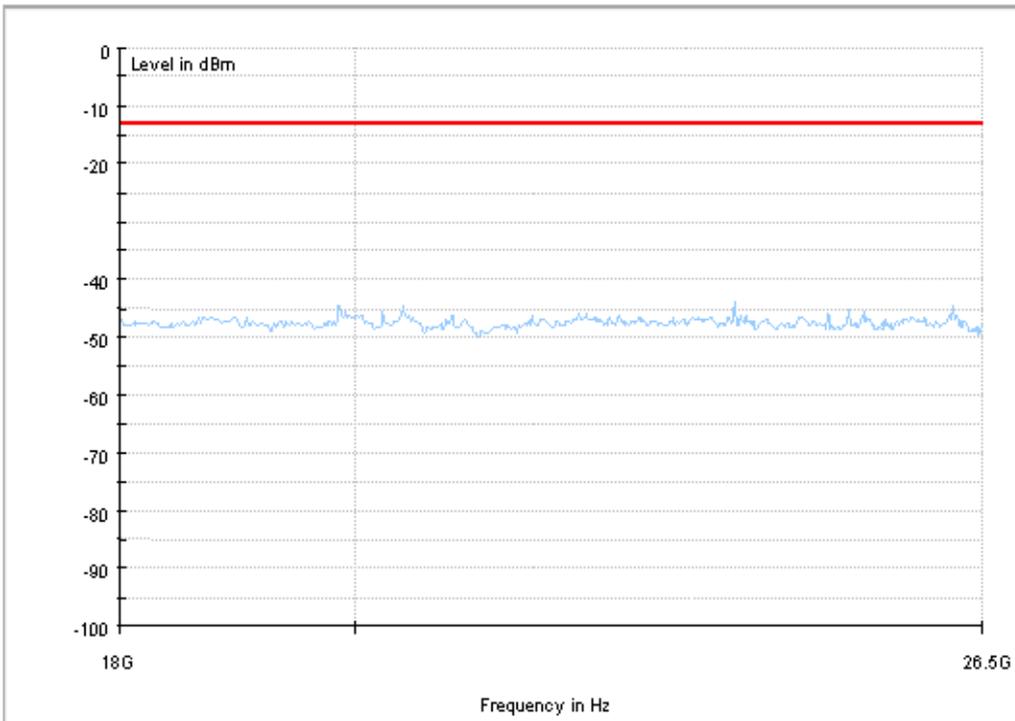
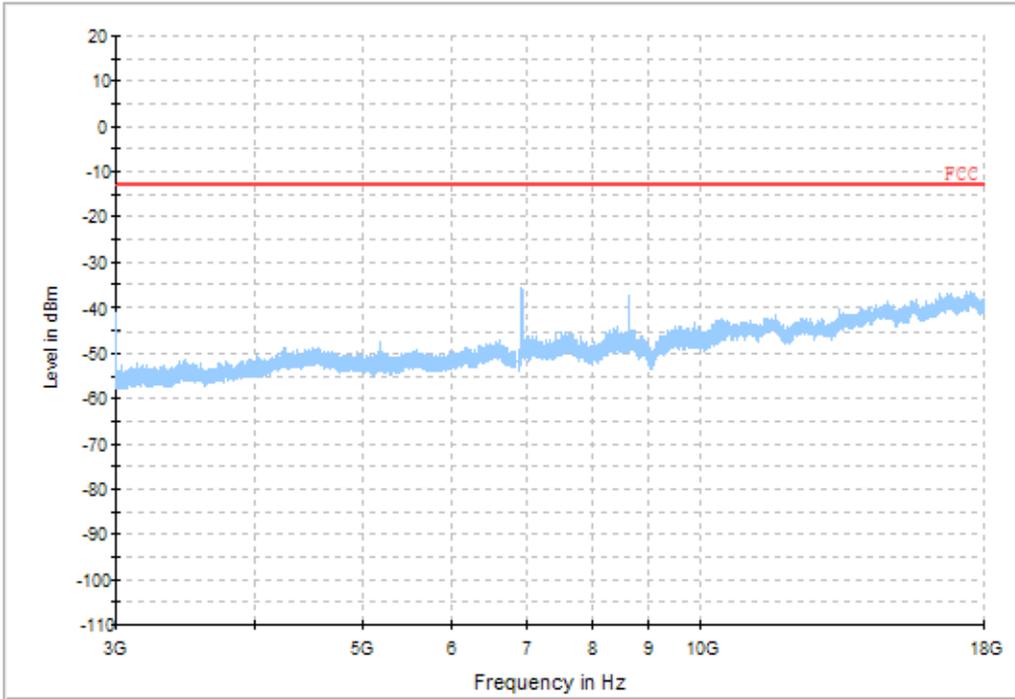
7.3.1.2 Test Bandwidth = 5



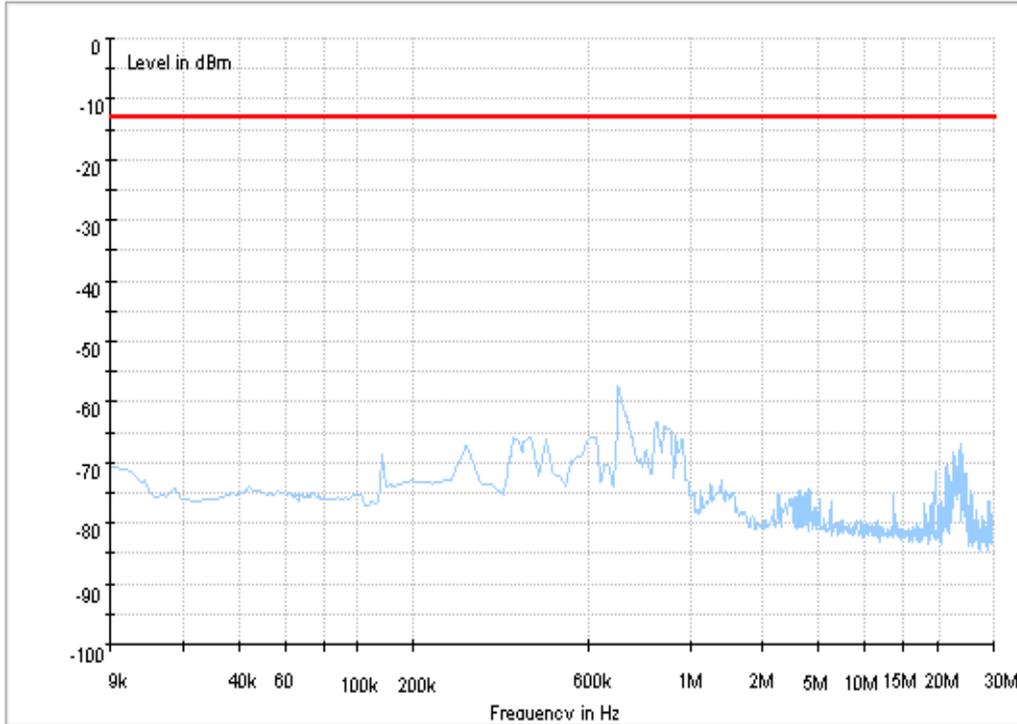
Copy of FCC PART27 LTE Band 4_L



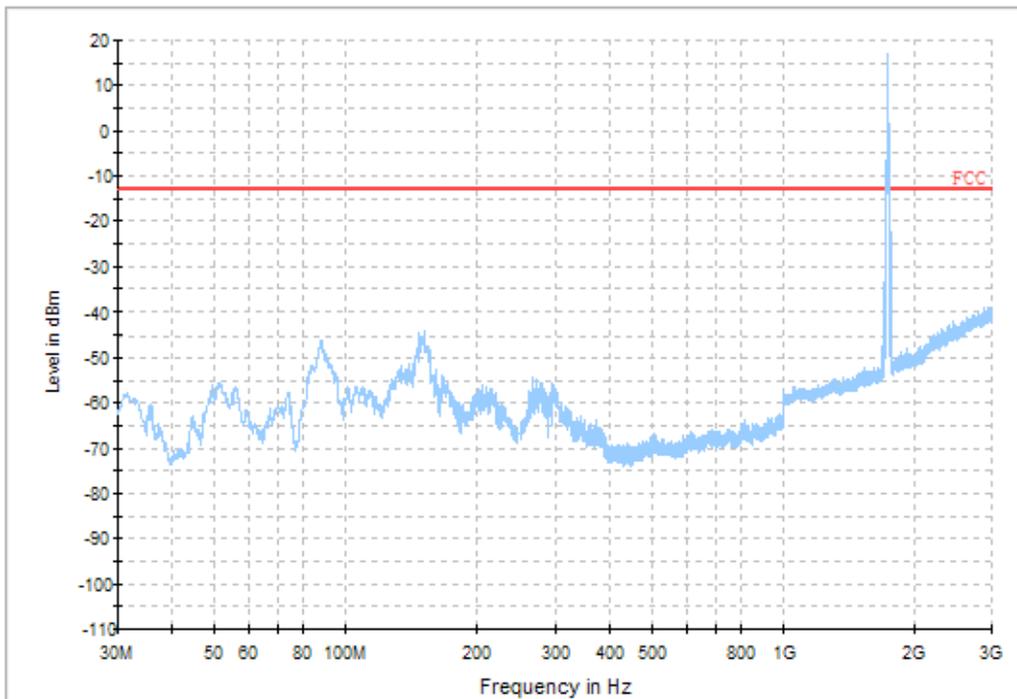
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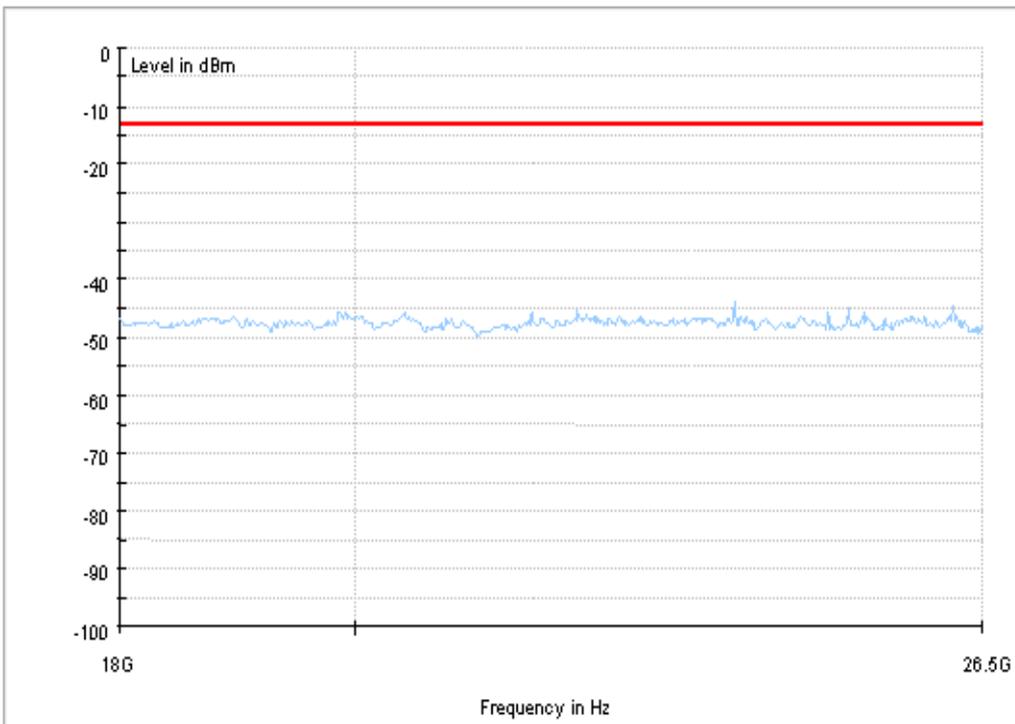
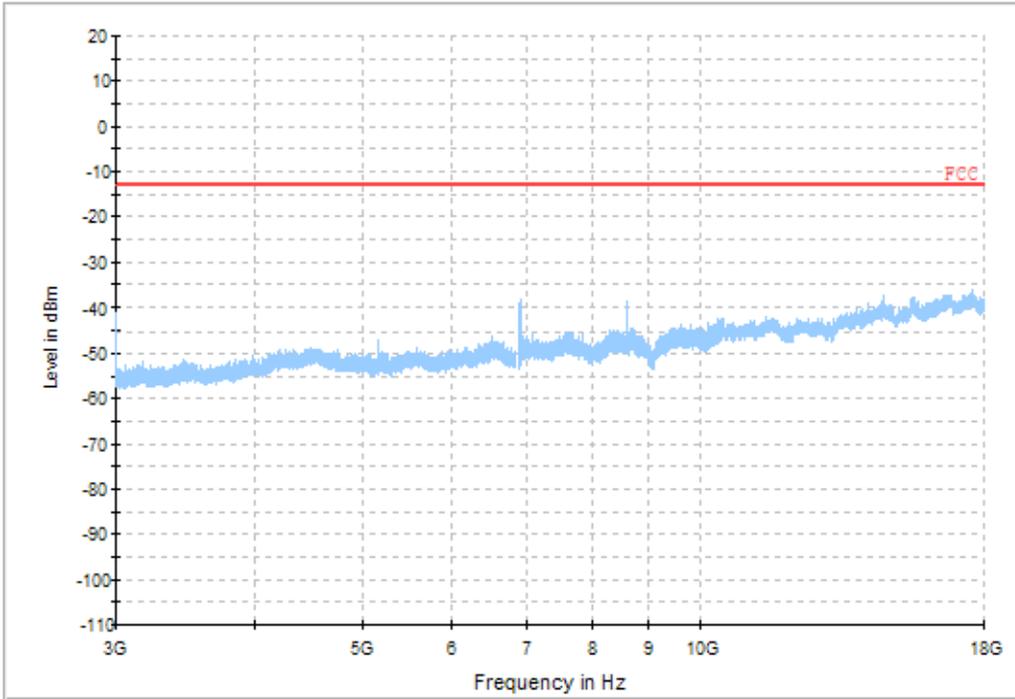
7.3.1.3 Test Bandwidth = 20



Copy of FCC PART27 LTE Band 4_L



Copy of FCC PART27 LTE Band 4_H



8Appendix_H: Frequency Stability

8.1 For GSM

8.1.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM850	GSM/TM1	LCH	TN	VL	-7.43	-0.00901	PASS
				VN	-3.16	-0.00383	PASS
				VH	-5.36	-0.0065	PASS
		MCH	TN	VL	-5.55	-0.00663	PASS
				VN	-3.42	-0.00409	PASS
				VH	-1.61	-0.00192	PASS
		HCH	TN	VL	-4.13	-0.00487	PASS
				VN	-7.68	-0.00905	PASS
				VH	-5.94	-0.007	PASS
	GSM/TM2	LCH	TN	VL	-10.20	-0.01238	PASS
				VN	-5.00	-0.00607	PASS
				VH	-3.81	-0.00462	PASS
		MCH	TN	VL	-2.42	-0.00289	PASS
				VN	-1.90	-0.00227	PASS
				VH	-2.45	-0.00293	PASS
		HCH	TN	VL	-4.10	-0.00483	PASS
				VN	-8.62	-0.01016	PASS
				VH	-13.43	-0.01582	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM850	GSM/TM1	LCH	VN	-30	-9.04	-0.01097	PASS
				-20	-10.65	-0.01292	PASS
				-10	-4.46	-0.00541	PASS
				0	-9.81	-0.0119	PASS
				10	-6.26	-0.0076	PASS
				20	-3.81	-0.00462	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
				30	-7.81	-0.00948	PASS		
				40	-3.36	-0.00408	PASS		
				50	-8.07	-0.00979	PASS		
		MCH	VN			-30	-4.97	-0.00594	PASS
						-20	-4.58	-0.00547	PASS
						-10	-3.49	-0.00417	PASS
						0	-2.91	-0.00348	PASS
						10	0.06	0.00007	PASS
						20	-2.78	-0.00332	PASS
						30	-1.23	-0.00147	PASS
						40	-0.71	-0.00085	PASS
						50	-3.94	-0.00471	PASS
						HCH	VN		
		-20	-5.62	-0.00662	PASS				
		-10	-10.65	-0.01255	PASS				
		0	-8.59	-0.01012	PASS				
		10	-7.55	-0.00889	PASS				
		20	-6.52	-0.00768	PASS				
		30	-10.07	-0.01186	PASS				
		40	-10.01	-0.01179	PASS				
		GSM/TM2	LCH	VN		-30	-12.43	-0.01508	PASS
	-20					-7.52	-0.00912	PASS	
	-10					-6.91	-0.00838	PASS	
	0					-4.78	-0.0058	PASS	
	10					-4.23	-0.00513	PASS	
	20					-6.36	-0.00772	PASS	
	30					-7.14	-0.00866	PASS	
	40					-7.62	-0.00925	PASS	
	50					-6.72	-0.00815	PASS	
	MCH					VN			-30
			-20	-4.42	-0.00528				PASS
			-10	-5.59	-0.00668				PASS
			0	-2.49	-0.00298				PASS
			10	-6.68	-0.00798				PASS
			20	-5.65	-0.00675				PASS
			30	-8.56	-0.01023				PASS
			40	1.81	0.00216				PASS
			50	-0.65	-0.00078				PASS
	HCH		VN			-30	-5.23	-0.00616	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-20	-8.36	-0.00985	PASS
				-10	-9.62	-0.01133	PASS
				0	-17.89	-0.02108	PASS
				10	-12.88	-0.01517	PASS
				20	-12.01	-0.01415	PASS
				30	-7.20	-0.00848	PASS
				40	-10.82	-0.01275	PASS
				50	-10.91	-0.01285	PASS

8.2 For UMTS

8.2.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	TN	VL	2.41	0.00292	PASS
				VN	1.33	0.00161	PASS
				VH	0.24	0.00029	PASS
		MCH	TN	VL	-2.69	-0.00322	PASS
				VN	3.95	0.00472	PASS
				VH	2.14	0.00256	PASS
		HCH	TN	VL	4.53	0.00535	PASS
				VN	-4.30	-0.00508	PASS
				VH	1.45	0.00171	PASS
WCDMA1700	UMTS/TM1	LCH	TN	VL	-4.73	-0.00276	PASS
				VN	-1.02	-0.0006	PASS
				VH	-4.97	-0.0029	PASS
		MCH	TN	VL	-0.37	-0.00021	PASS
				VN	-0.02	-0.00001	PASS
				VH	-5.05	-0.00291	PASS
		HCH	TN	VL	-2.46	-0.0014	PASS
				VN	-6.30	-0.00359	PASS
				VH	-5.17	-0.00295	PASS

8.2.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	VN	-30	-1.50	-0.00182	PASS
				-20	4.20	0.00508	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
				-10	0.70	0.00085	PASS		
				0	3.49	0.00422	PASS		
				10	-3.80	-0.0046	PASS		
				20	1.42	0.00172	PASS		
				30	-9.49	-0.01148	PASS		
				40	1.83	0.00221	PASS		
				50	-4.88	-0.00591	PASS		
		MCH	VN	-30	-4.58	-0.00548	PASS		
				-20	9.25	0.01106	PASS		
				-10	3.65	0.00436	PASS		
				0	3.23	0.00386	PASS		
				10	-2.08	-0.00249	PASS		
				20	-0.87	-0.00104	PASS		
				30	4.52	0.0054	PASS		
				40	6.70	0.00801	PASS		
		HCH	VN	-30	-2.69	-0.00318	PASS		
				-20	6.18	0.0073	PASS		
				-10	2.47	0.00292	PASS		
				0	1.92	0.00227	PASS		
				10	-1.80	-0.00213	PASS		
				20	1.63	0.00193	PASS		
				30	-3.49	-0.00412	PASS		
				40	2.61	0.00308	PASS		
		WCDMA1700	UMTS/TM1	LCH	VN	-30	-7.08	-0.00413	PASS
						-20	4.94	0.00288	PASS
						-10	6	0.00350	PASS
						0	-4.99	-0.00291	PASS
10	4.53					0.00264	PASS		
20	-3.54					-0.00207	PASS		
30	-2.11					-0.00123	PASS		
MCH	VN			40	-7.87	-0.00459	PASS		
				50	5.51	0.00322	PASS		
				-30	5.81	0.00330	PASS		
				-20	7.06	0.00401	PASS		
				-10	-5.05	-0.00287	PASS		
				0	-7.84	-0.00445	PASS		
				10	15.17	0.00861	PASS		
20	3.23	0.00183	PASS						



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				30	-6.5	-0.00369	PASS
				40	1.74	0.00099	PASS
				50	2.61	0.00148	PASS
		HCH	VN	-30	2.69	0.00153	PASS
				-20	4.79	0.00273	PASS
				-10	-1.05	-0.00060	PASS
				0	-4.23	-0.00241	PASS
				10	4.12	0.00235	PASS
				20	3.98	0.00227	PASS
				30	6.04	0.00344	PASS
				40	-6.09	-0.00347	PASS
				50	4.23	0.00241	PASS