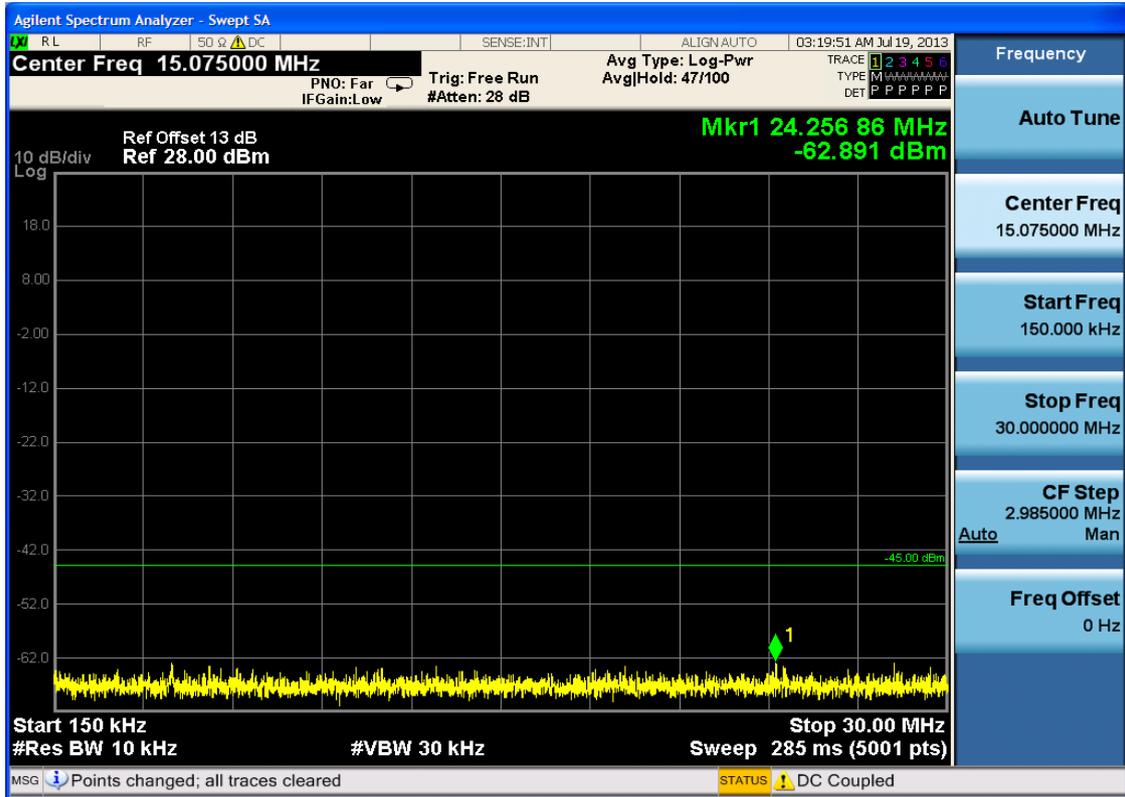
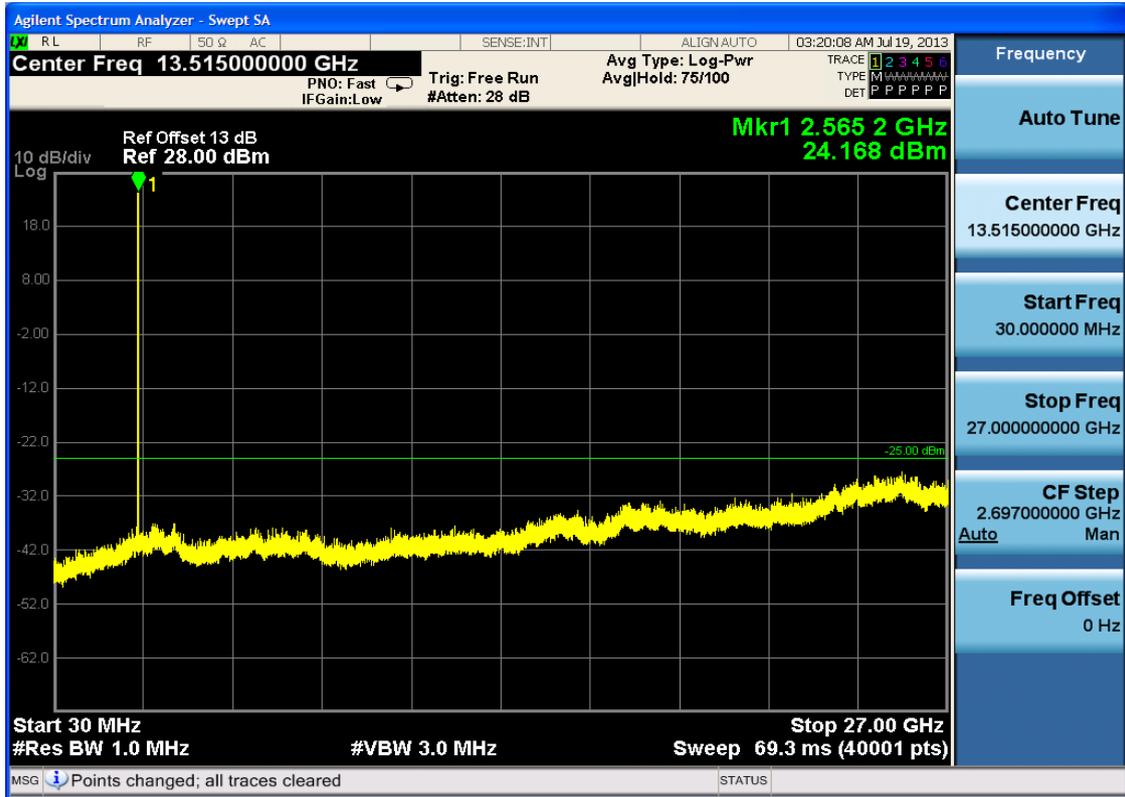


## 6.3.4.2.1.3 Test Channel = HCH

## 6.3.4.2.1.3.1 Test RB = RB1#0





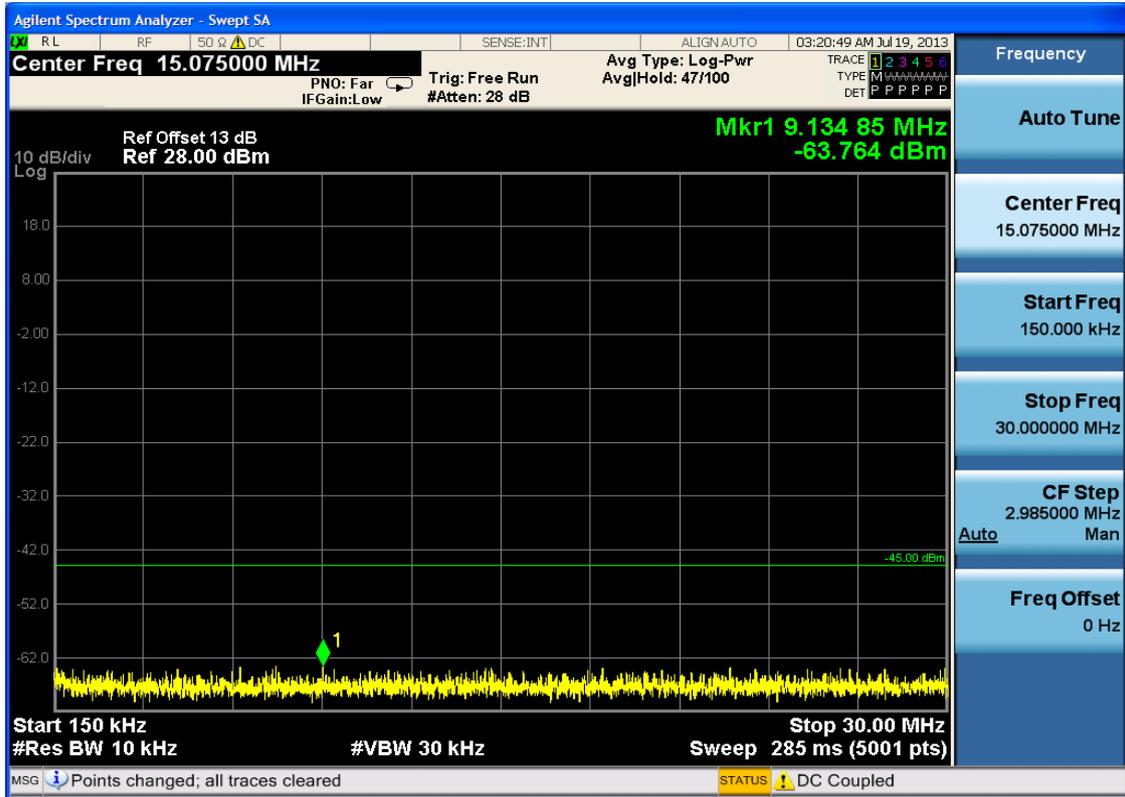


### 6.3.4.2.2 Test Bandwidth = 10

#### 6.3.4.2.2.1 Test Channel = LCH

##### 6.3.4.2.2.1.1 Test RB = RB1#0



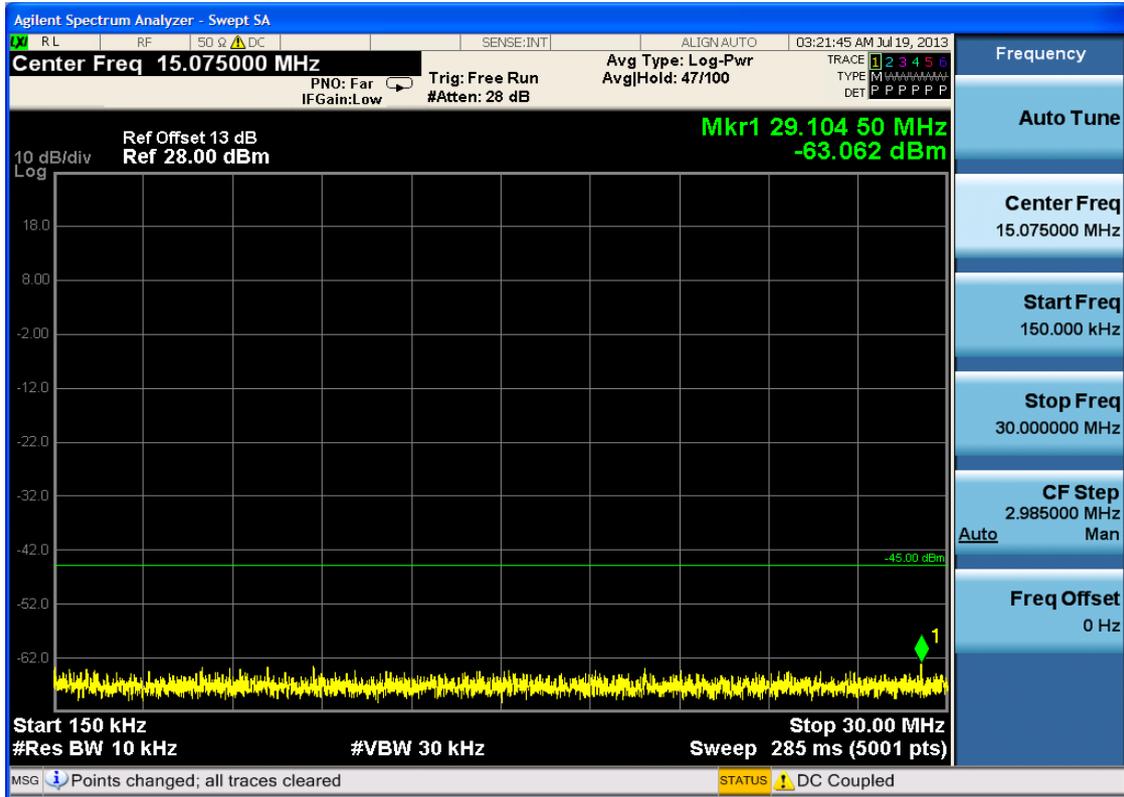




## 6.3.4.2.2.2 Test Channel = MCH

## 6.3.4.2.2.2.1 Test RB = RB1#0



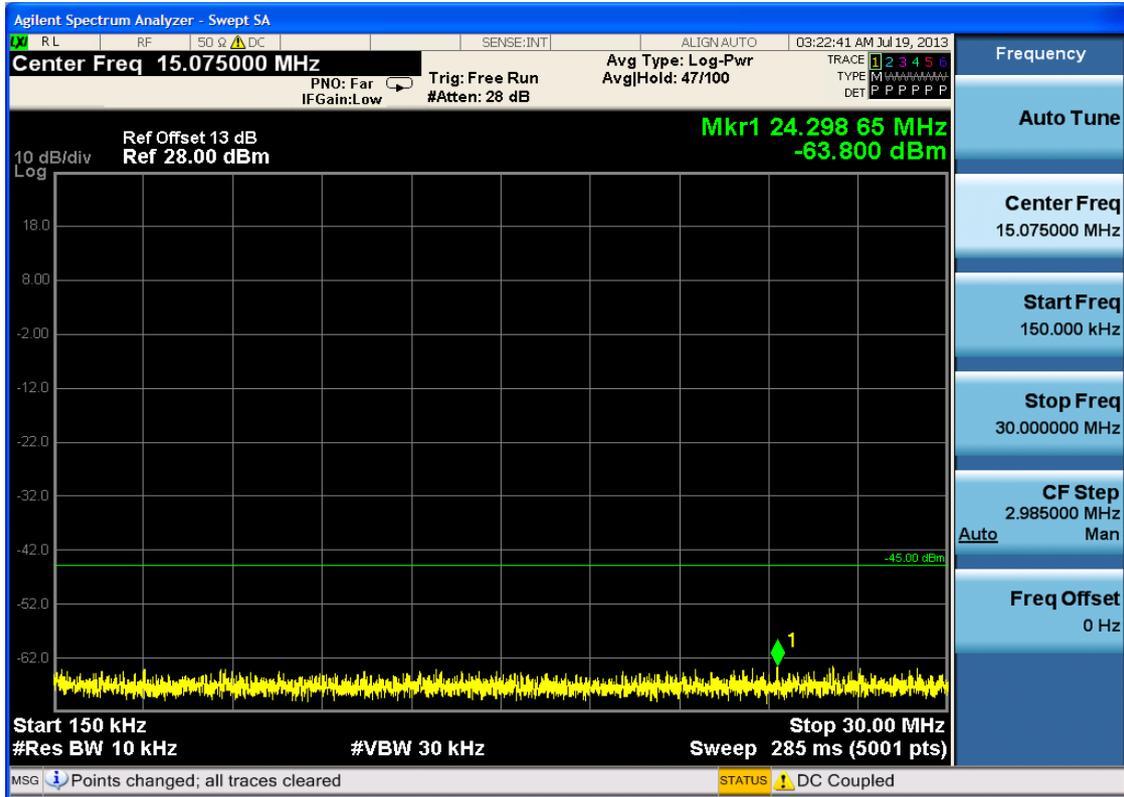




## 6.3.4.2.2.3 Test Channel = HCH

## 6.3.4.2.2.3.1 Test RB = RB1#0





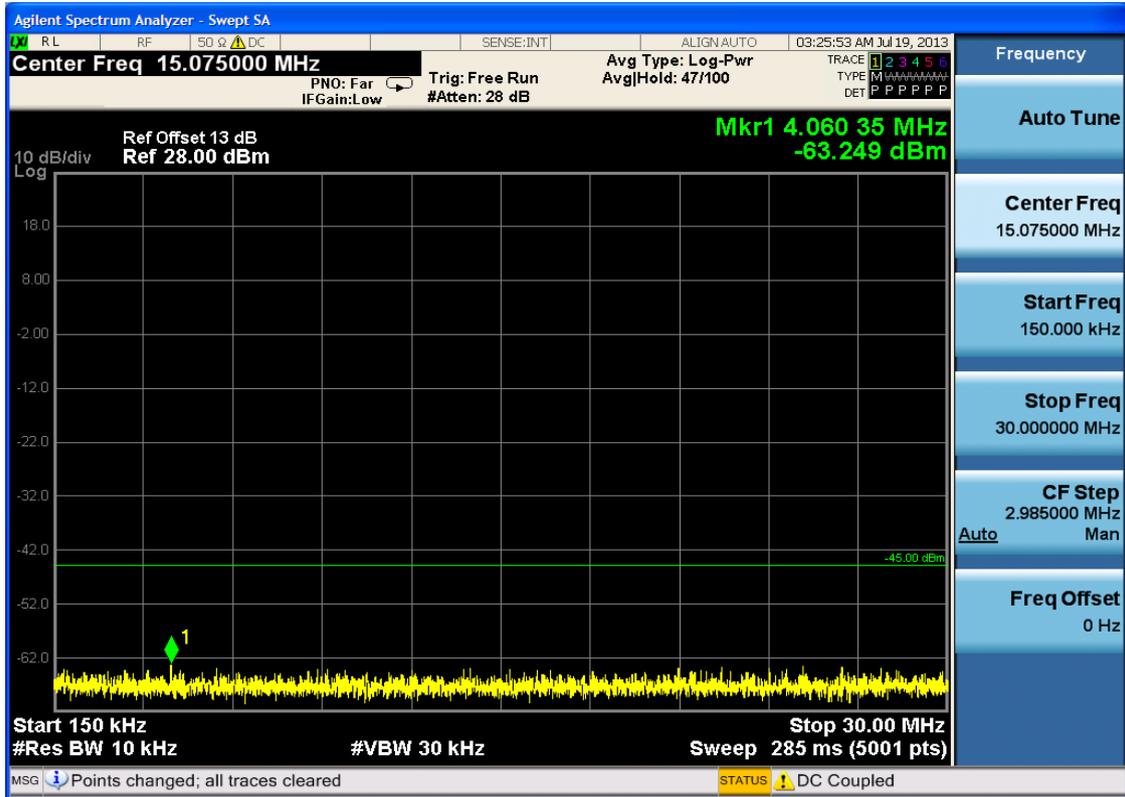


### 6.3.4.2.3 Test Bandwidth = 15

#### 6.3.4.2.3.1 Test Channel = LCH

##### 6.3.4.2.3.1.1 Test RB = RB1#0



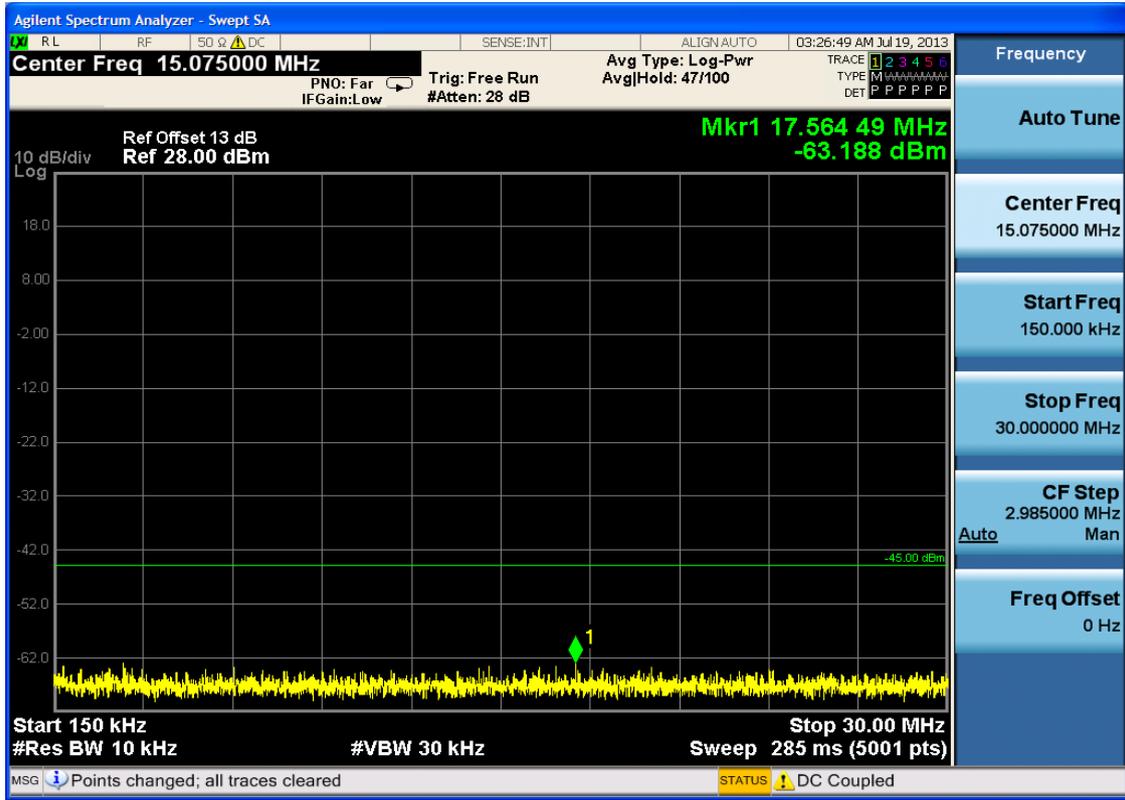




## 6.3.4.2.3.2 Test Channel = MCH

## 6.3.4.2.3.2.1 Test RB = RB1#0



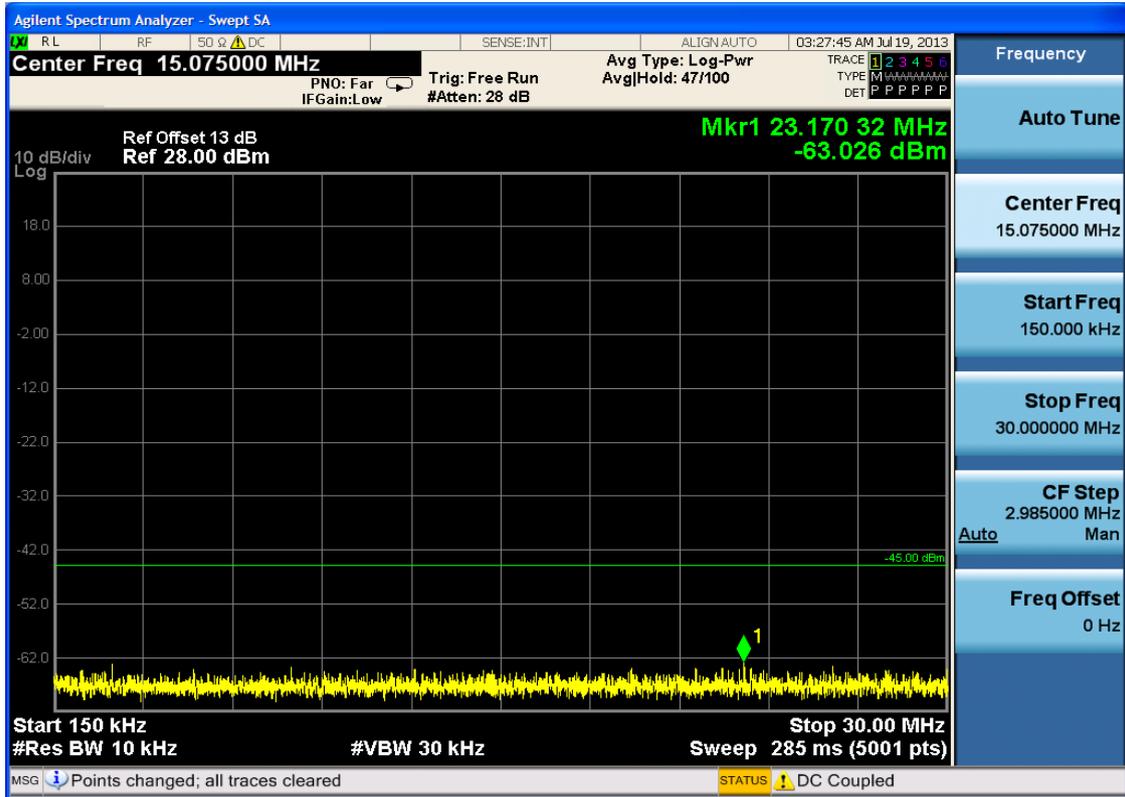


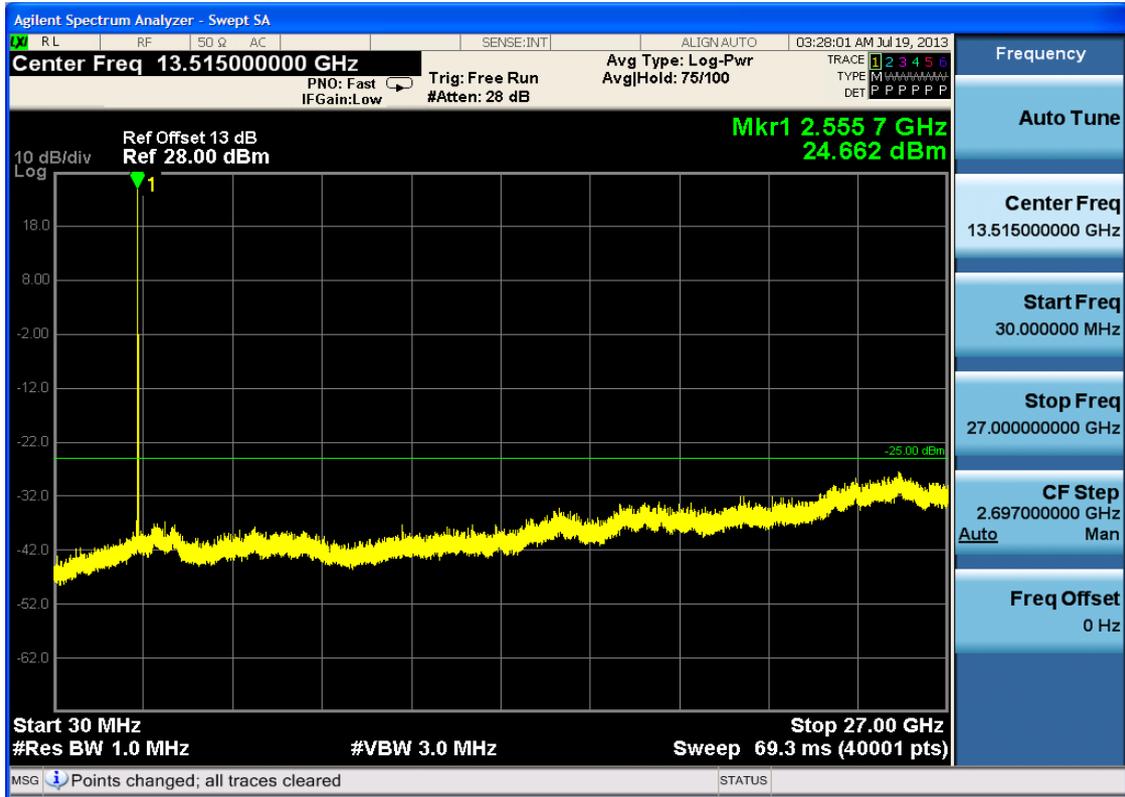


## 6.3.4.2.3.3 Test Channel = HCH

## 6.3.4.2.3.3.1 Test RB = RB1#0





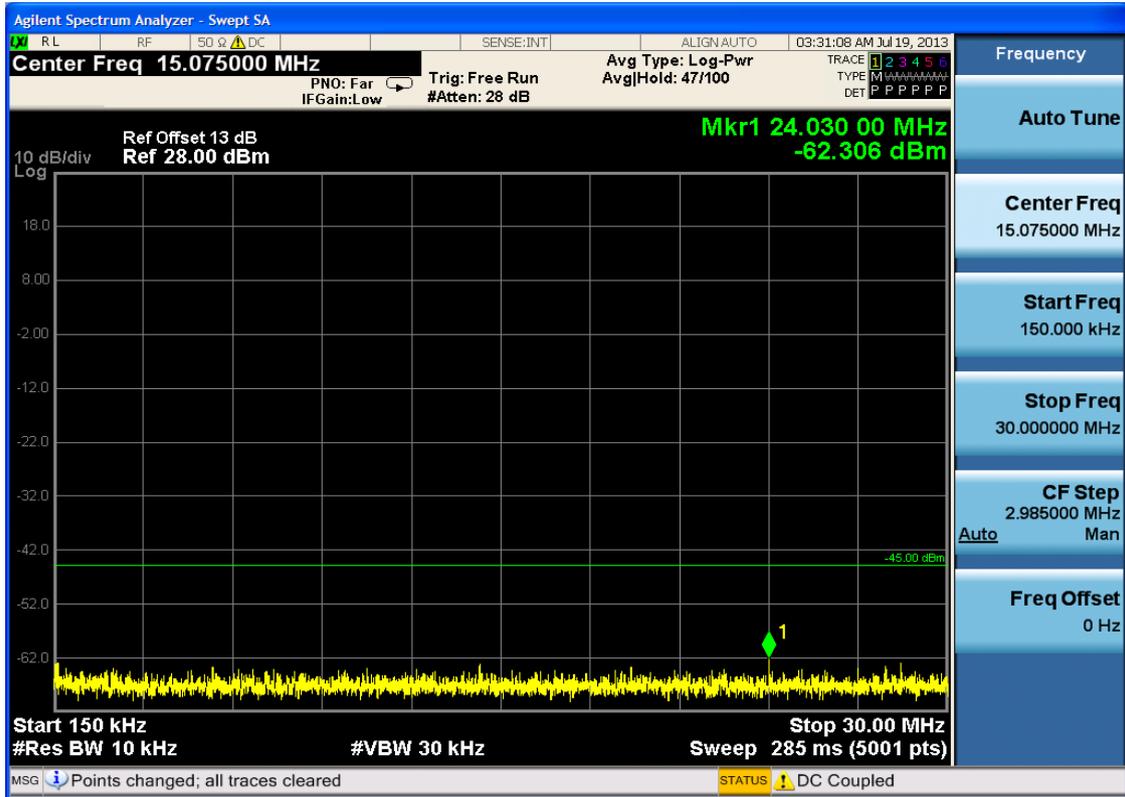


### 6.3.4.2.4 Test Bandwidth = 20

#### 6.3.4.2.4.1 Test Channel = LCH

##### 6.3.4.2.4.1.1 Test RB = RB1#0



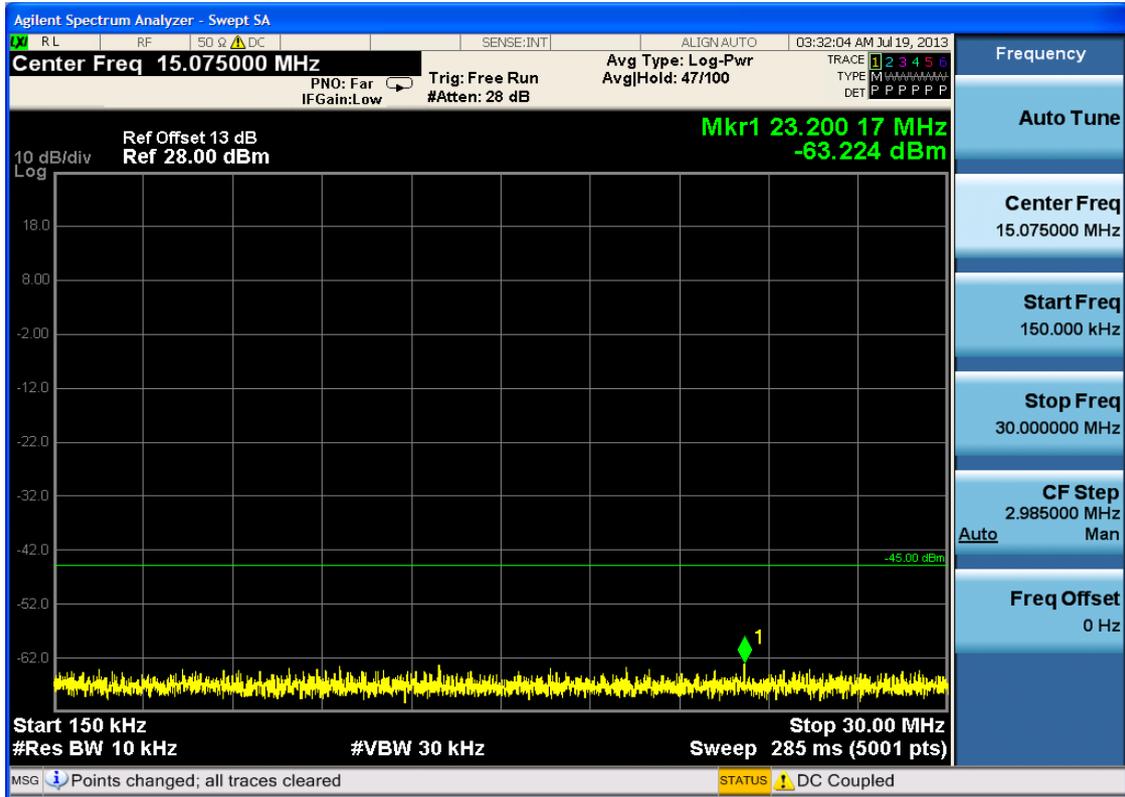




## 6.3.4.2.4.2 Test Channel = MCH

## 6.3.4.2.4.2.1 Test RB = RB1#0



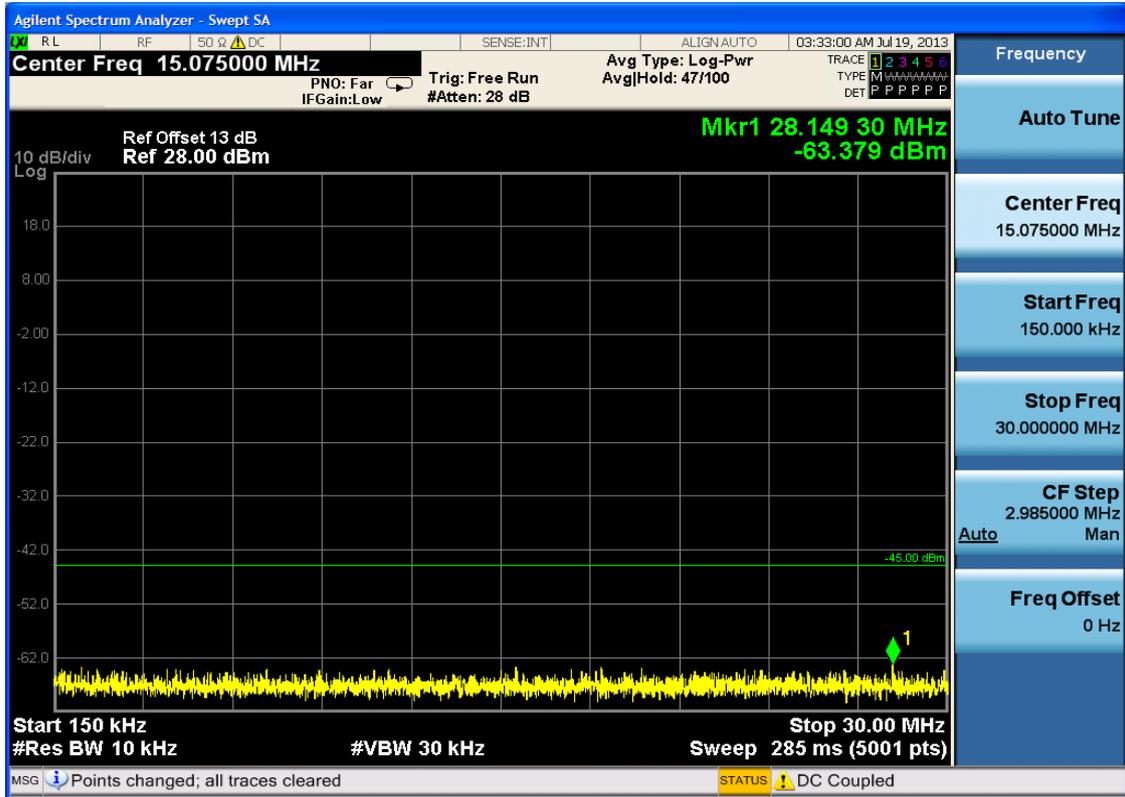


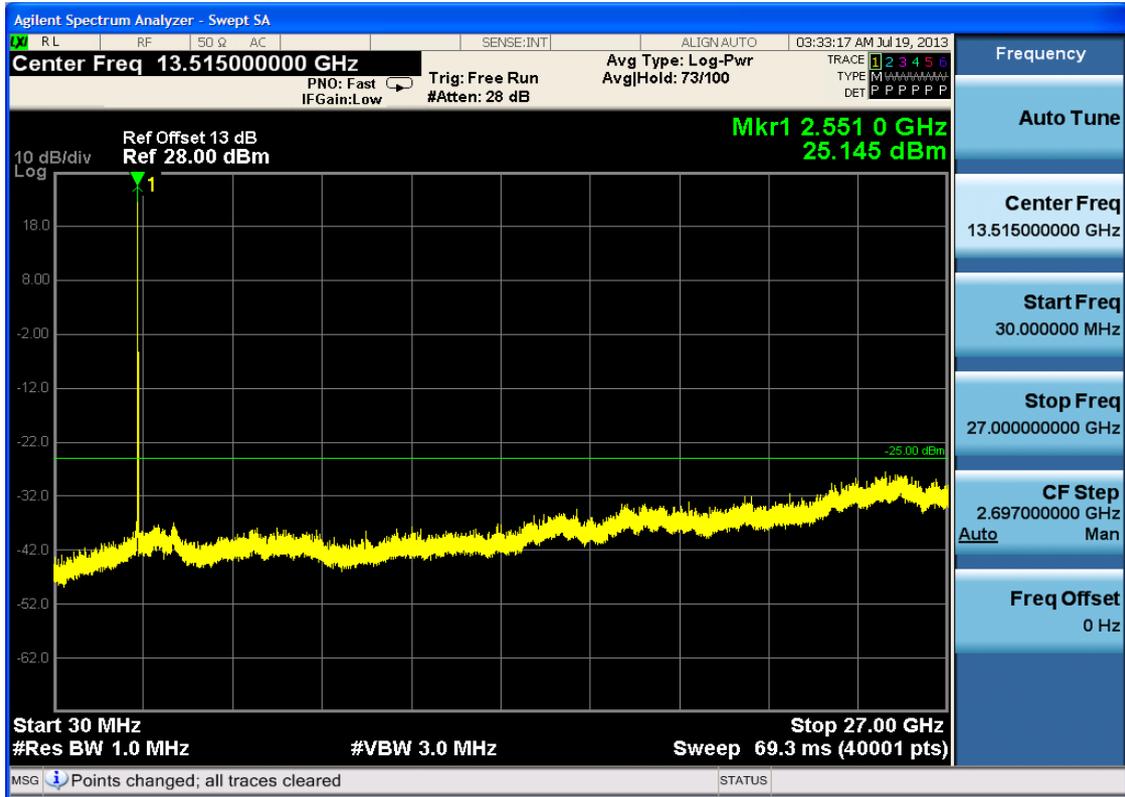


## 6.3.4.2.4.3 Test Channel = HCH

## 6.3.4.2.4.3.1 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

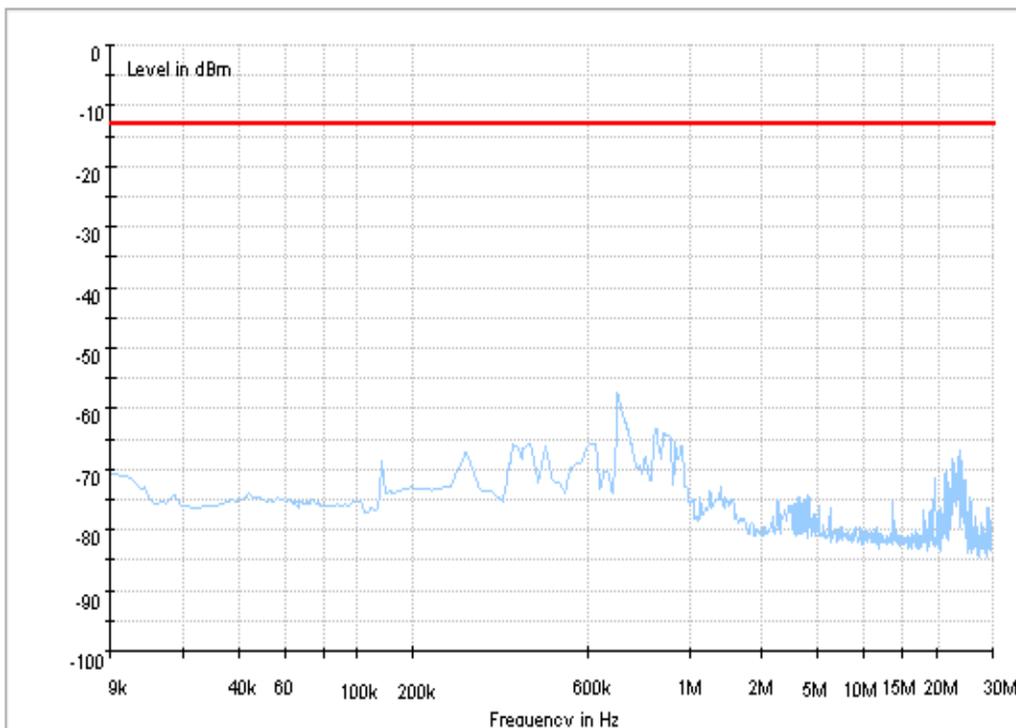
The simultaneous transmission has been considered

### Part I - Test Plots

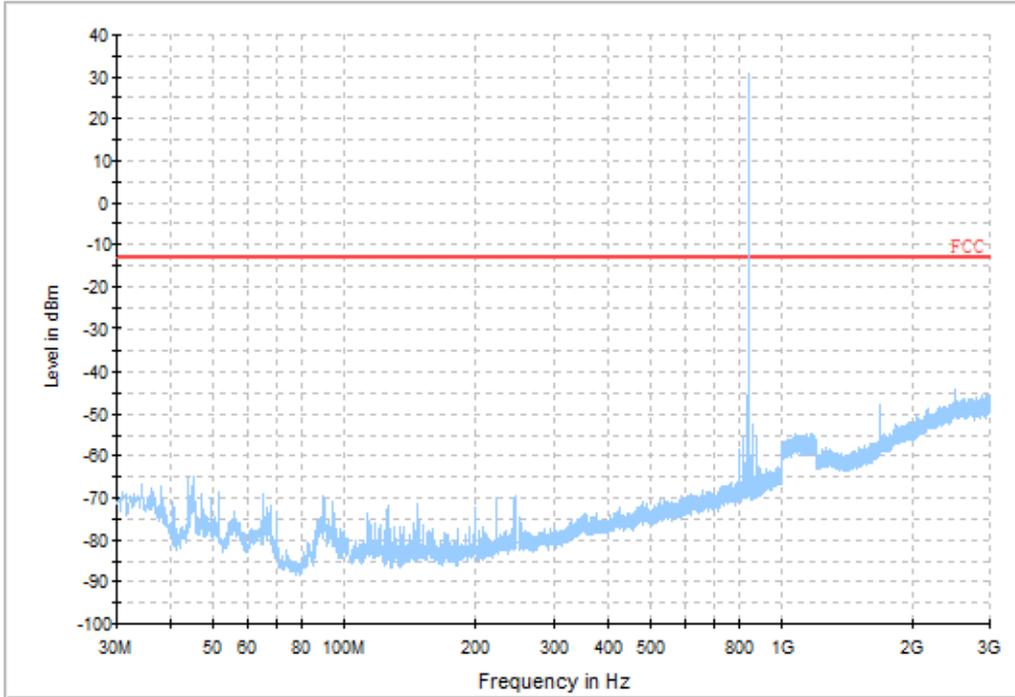
#### 7.1 For GSM

##### 7.1.1 Test Band = GSM850

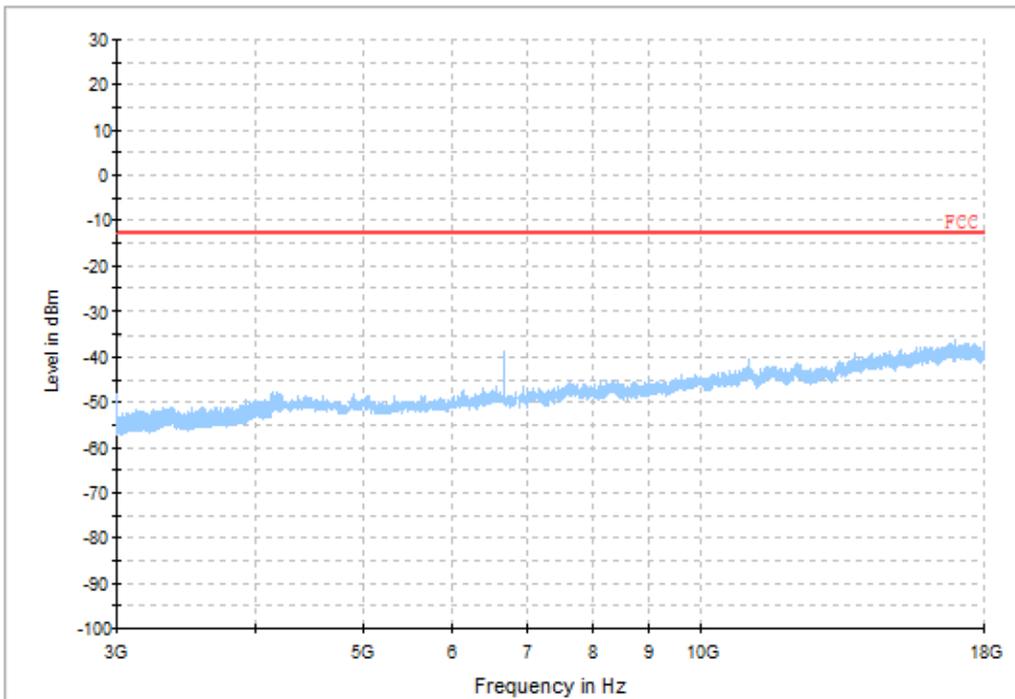
##### 7.1.1.1 Test Mode = GSM/TM1



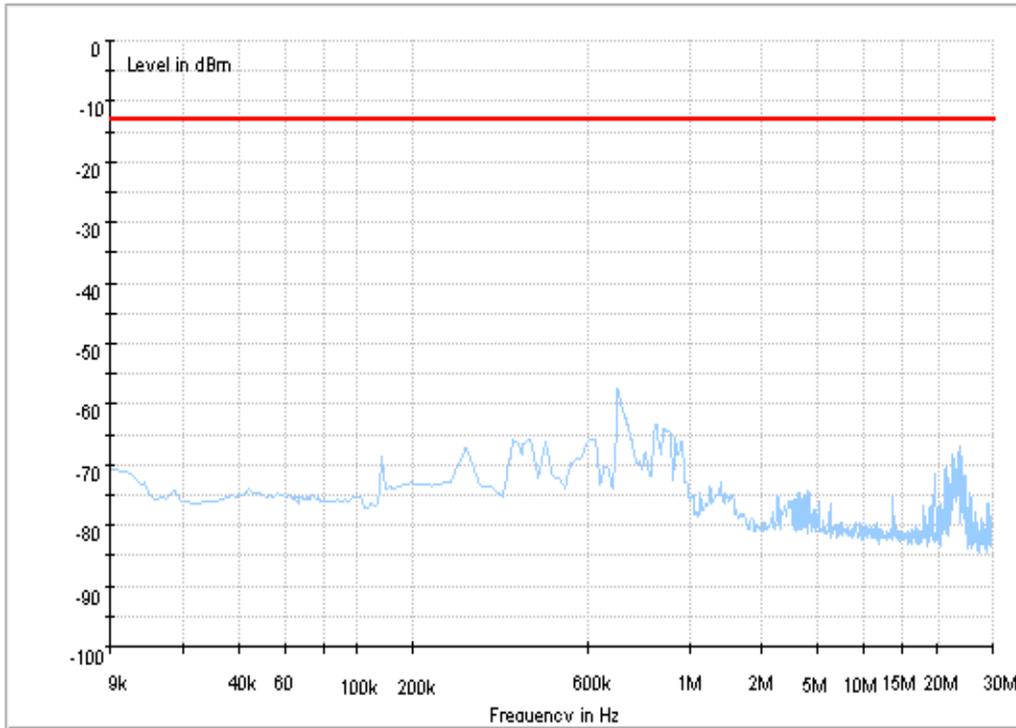
Copy of FCC PART22 GSM850\_L



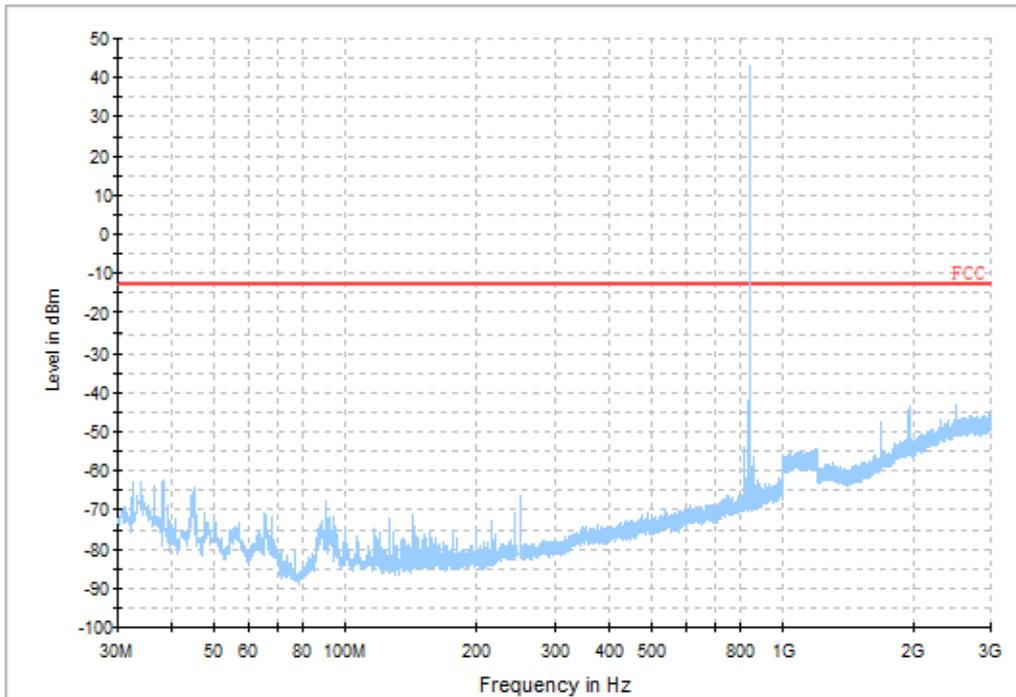
Copy of FCC PART22 GSM850\_H



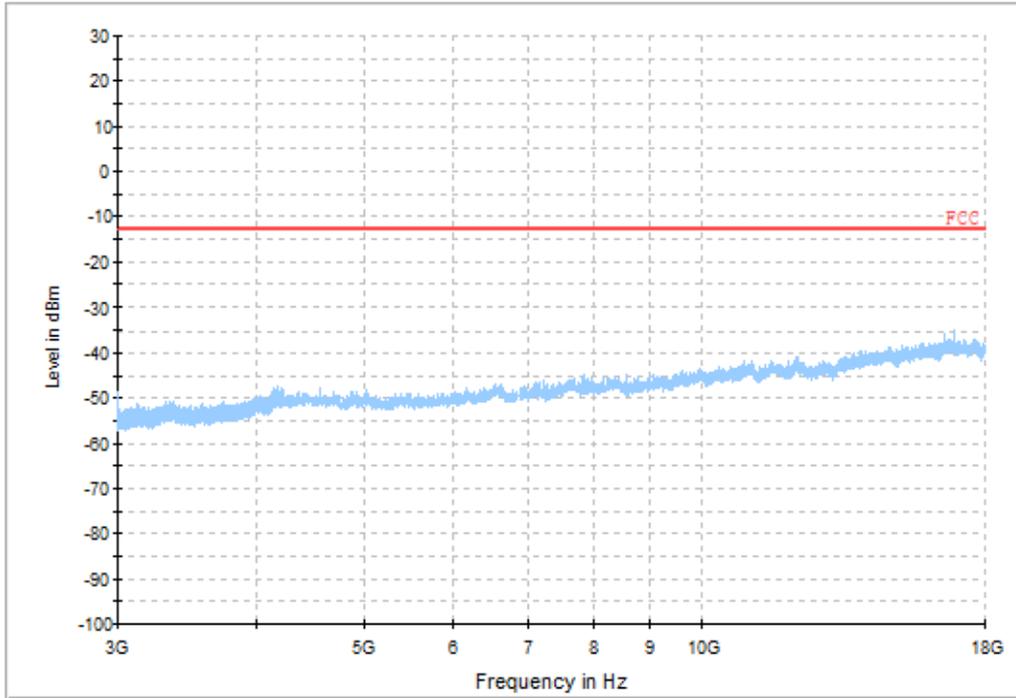
### 7.1.1.2 Test Mode = GSM/TM2



Copy of FCC PART22 GSM850\_L

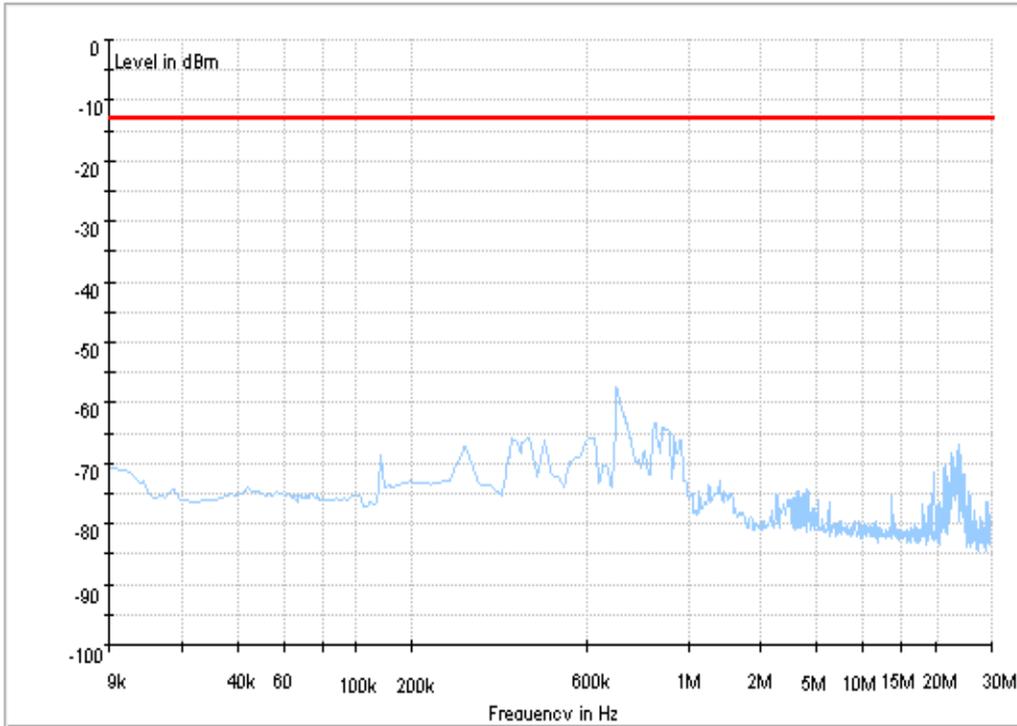


Copy of FCC PART22 GSM850\_H

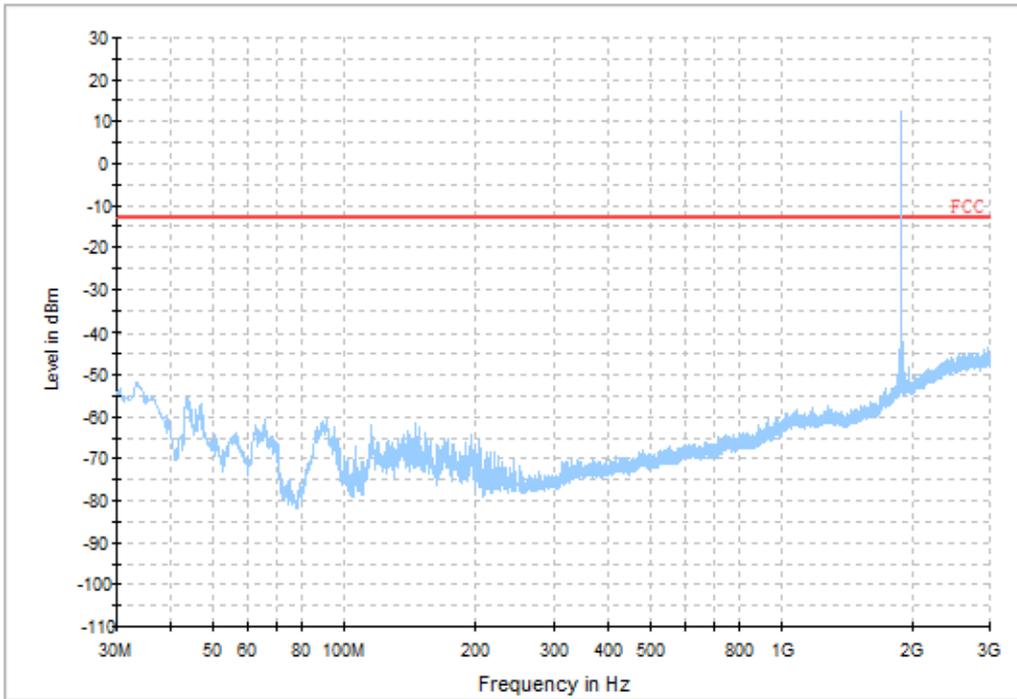


**7.1.2 Test Band = GSM1900**

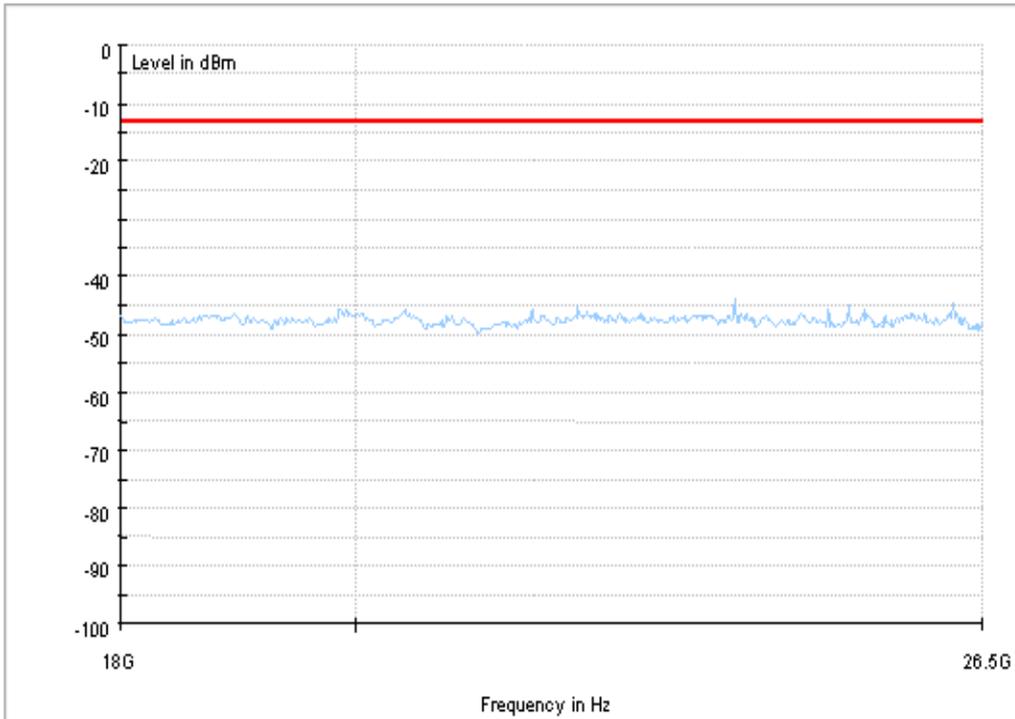
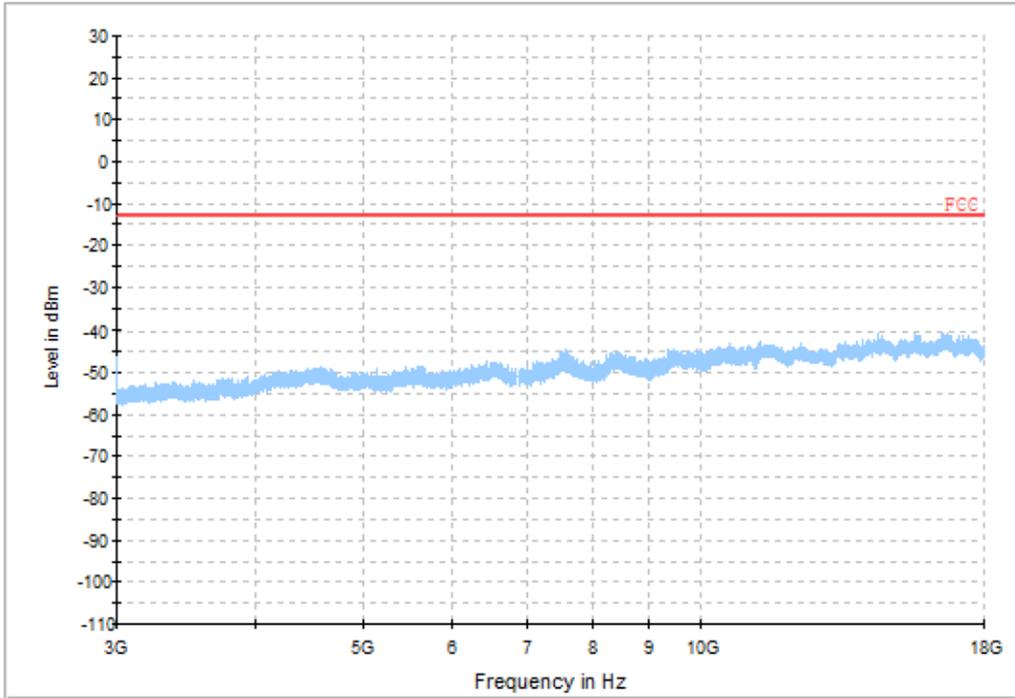
**7.1.2.1 Test Mode = GSM/TM1**



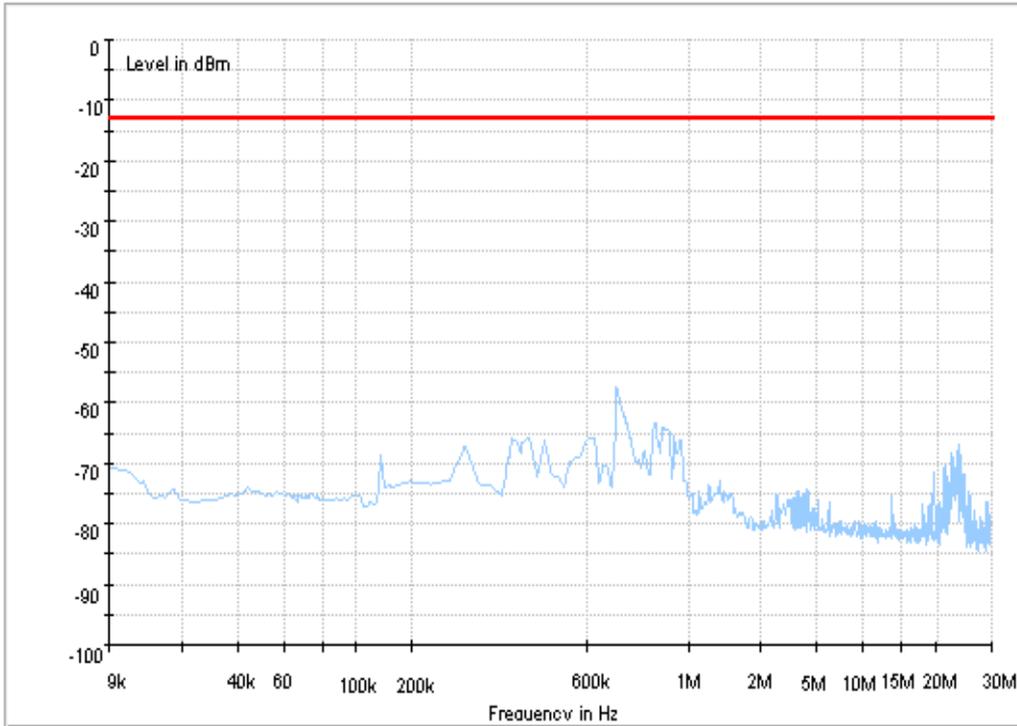
Copy of FCC PART24 GSM1900\_L



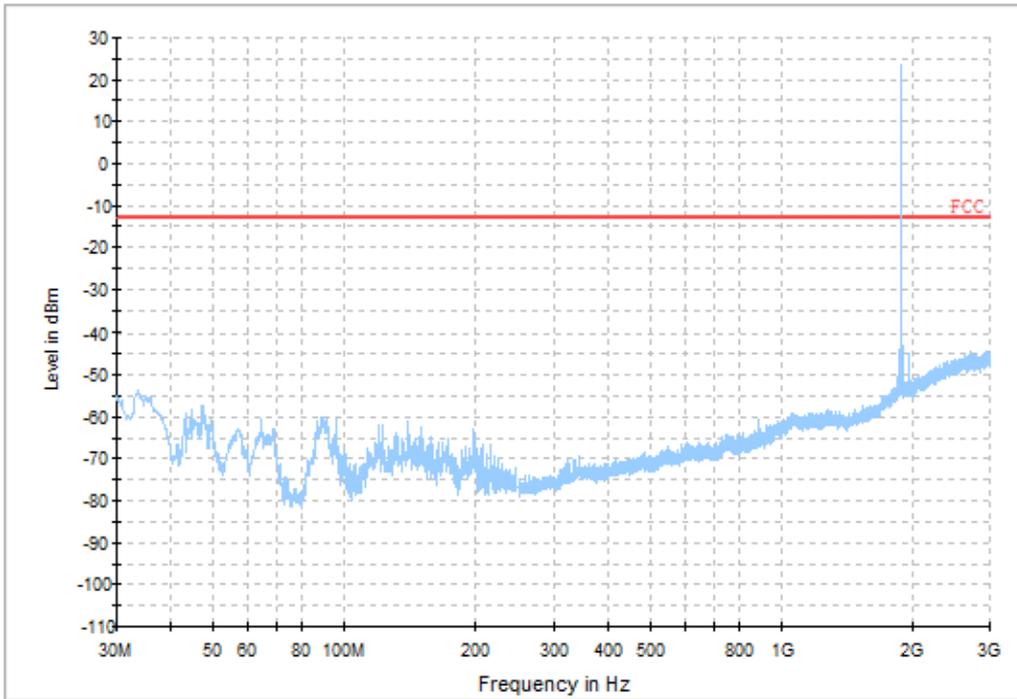
Copy of FCC PART24 GSM1900\_H



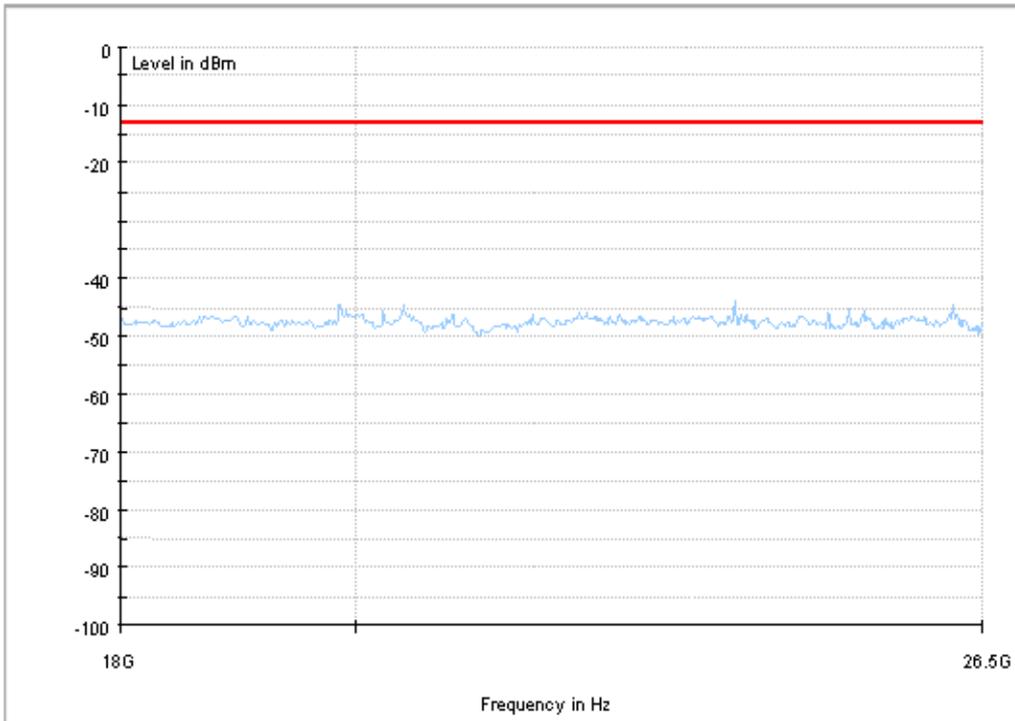
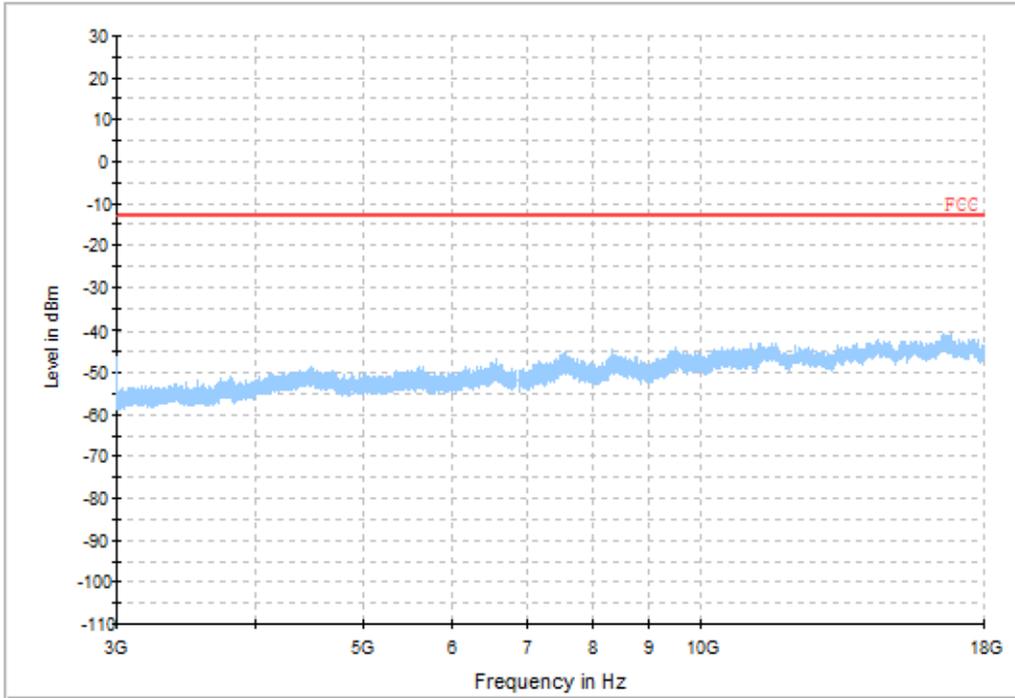
**7.1.2.2 Test Mode = GSM/TM2**



Copy of FCC PART24 GSM1900\_L



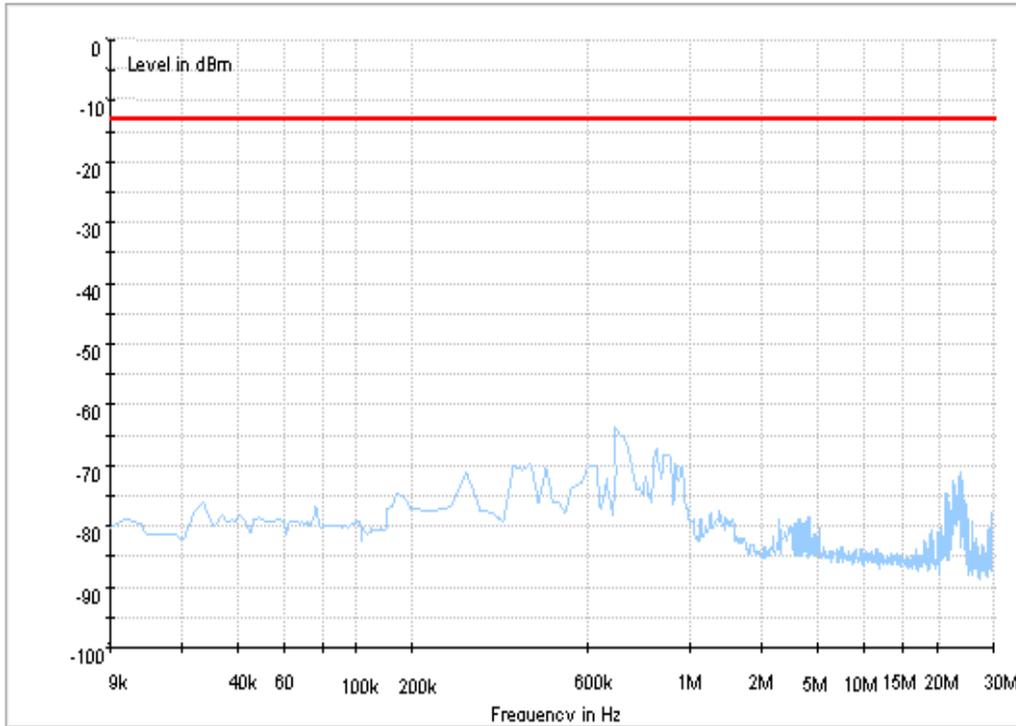
Copy of FCC PART24 GSM1900\_H



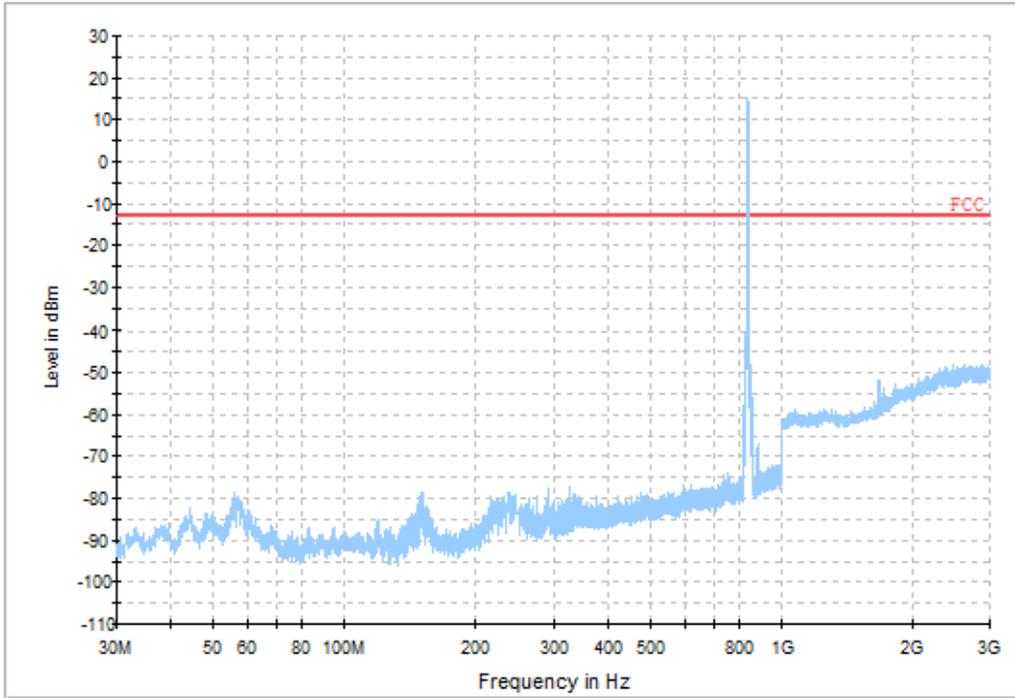
## 7.2 For UMTS

### 7.2.1 Test Band = WCDMA850

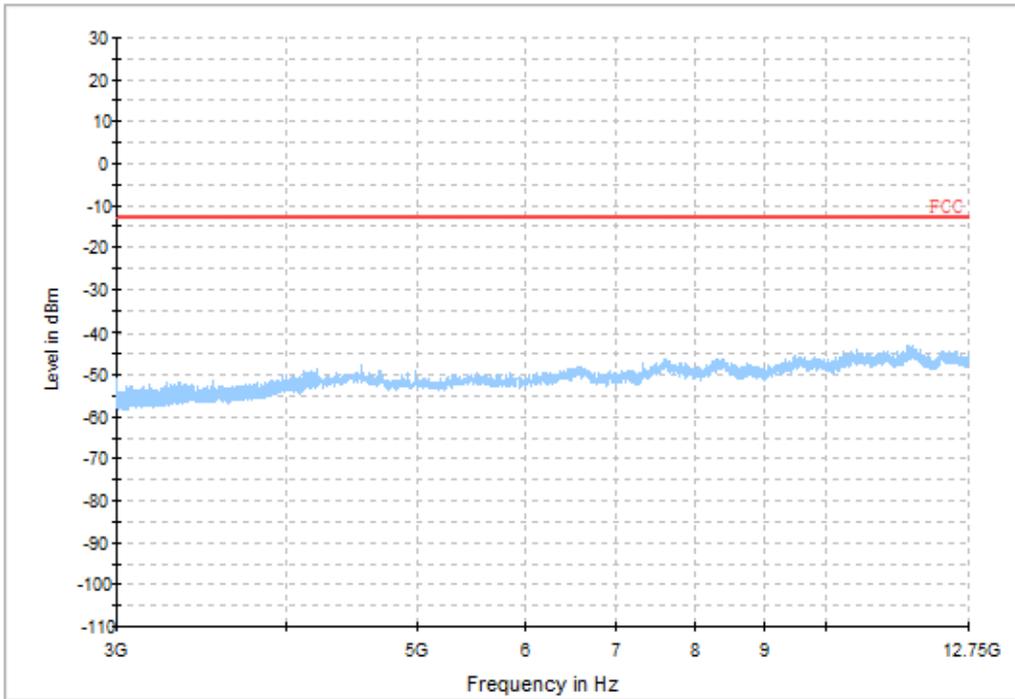
#### 7.2.1.1 Test Mode = UMTS/TM1



Copy of RSE - TX - UMTS BAND V\_L

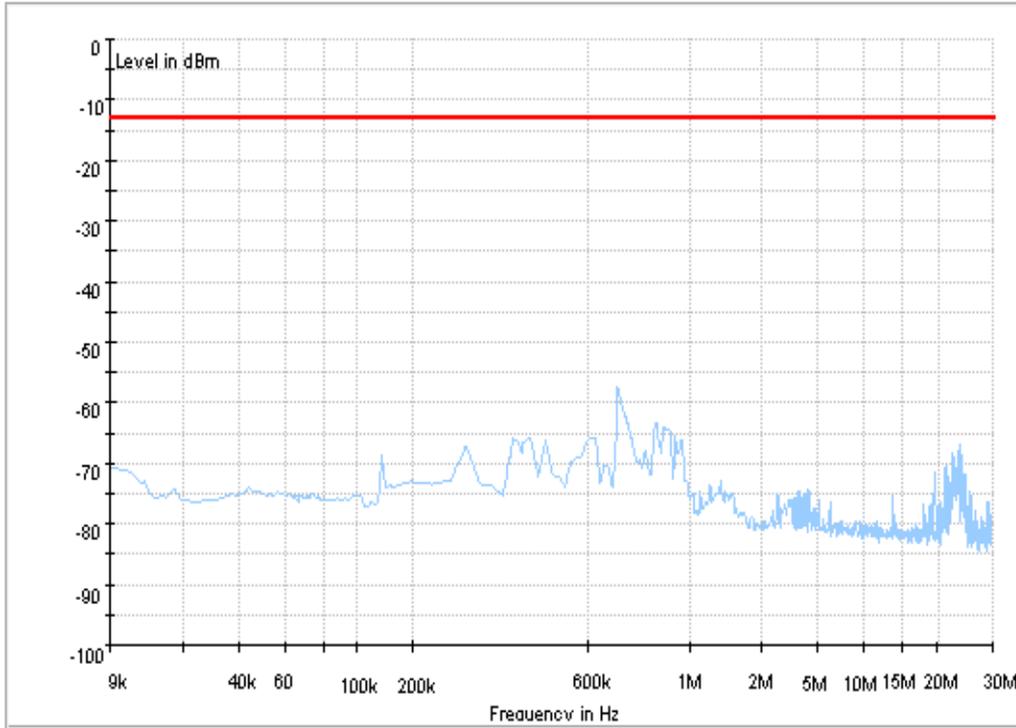


Copy of RSE - TX - UMTS BAND V\_H

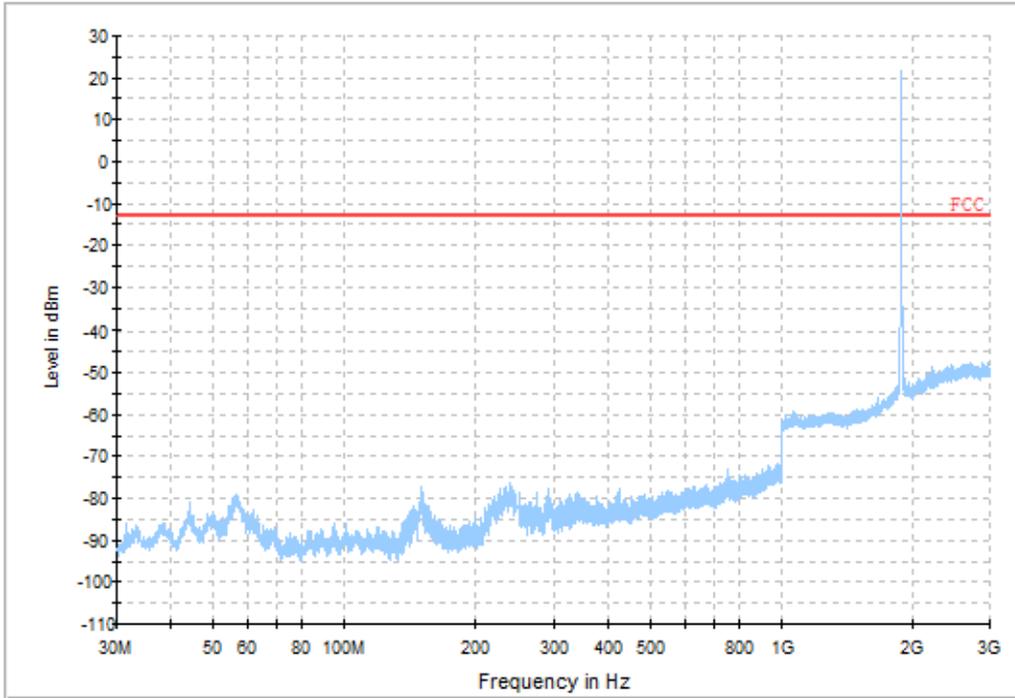


## 7.2.2 Test Band = WCDMA1900

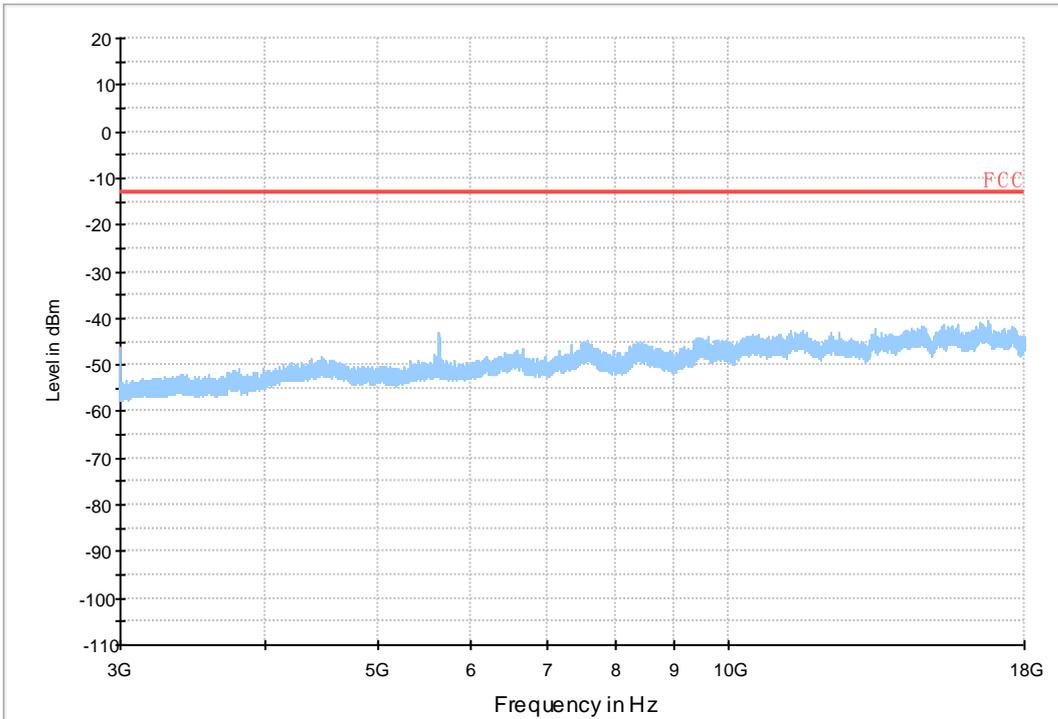
### 7.2.2.1 Test Mode = UMTS/TM1

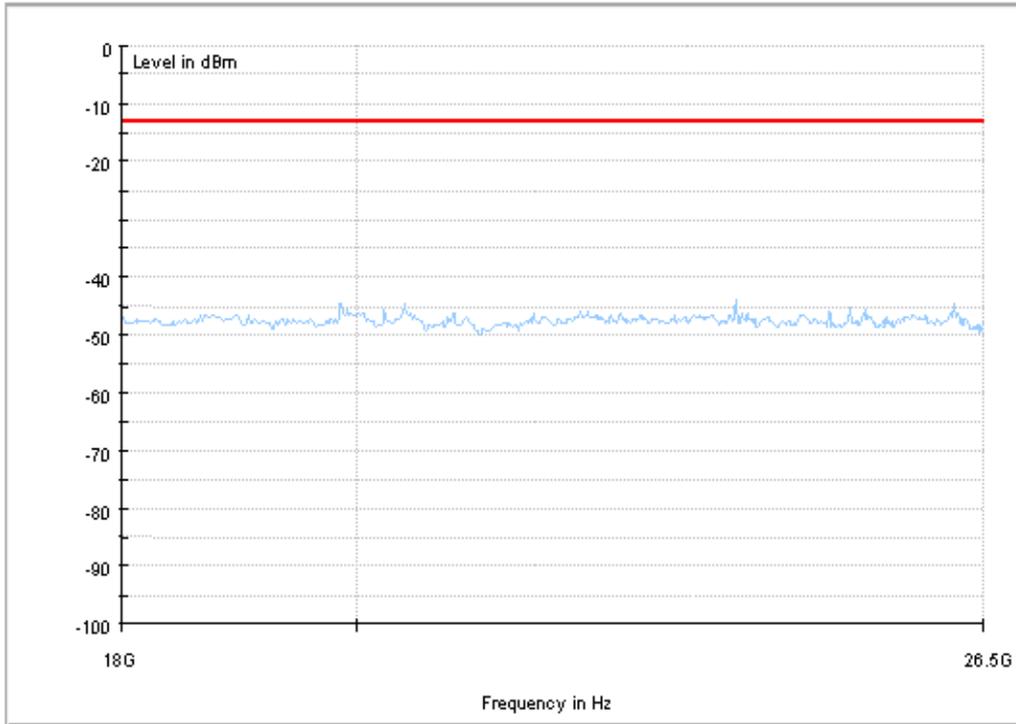


Copy of RSE - TX - UMTS BAND II\_L



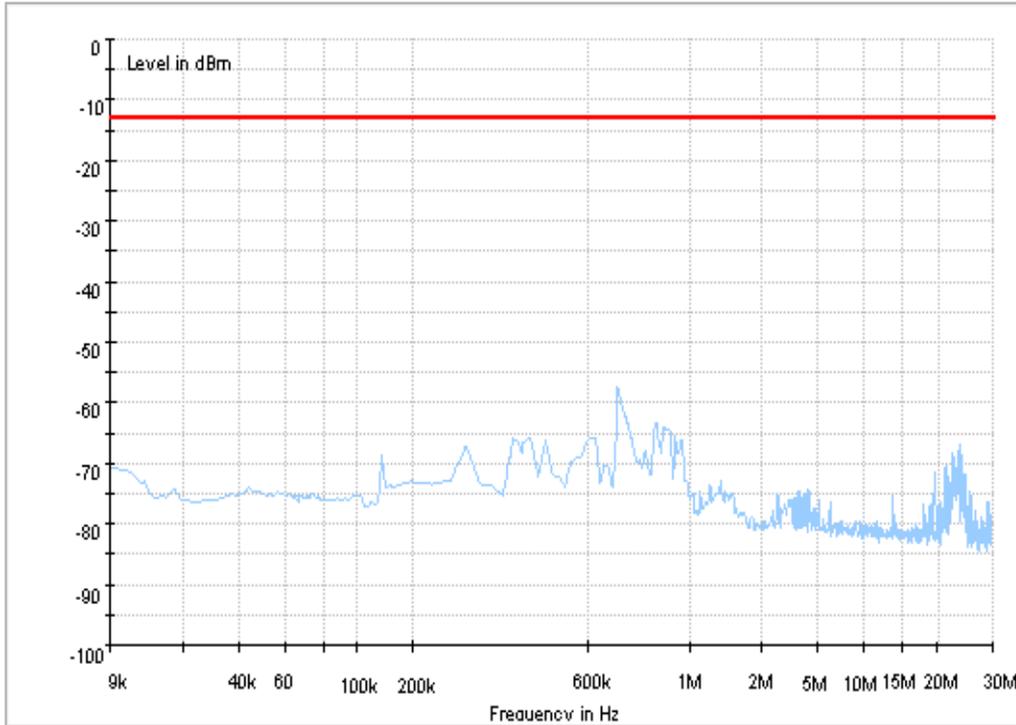
Copy of FCC PART 24 WCDMA 1900\_H



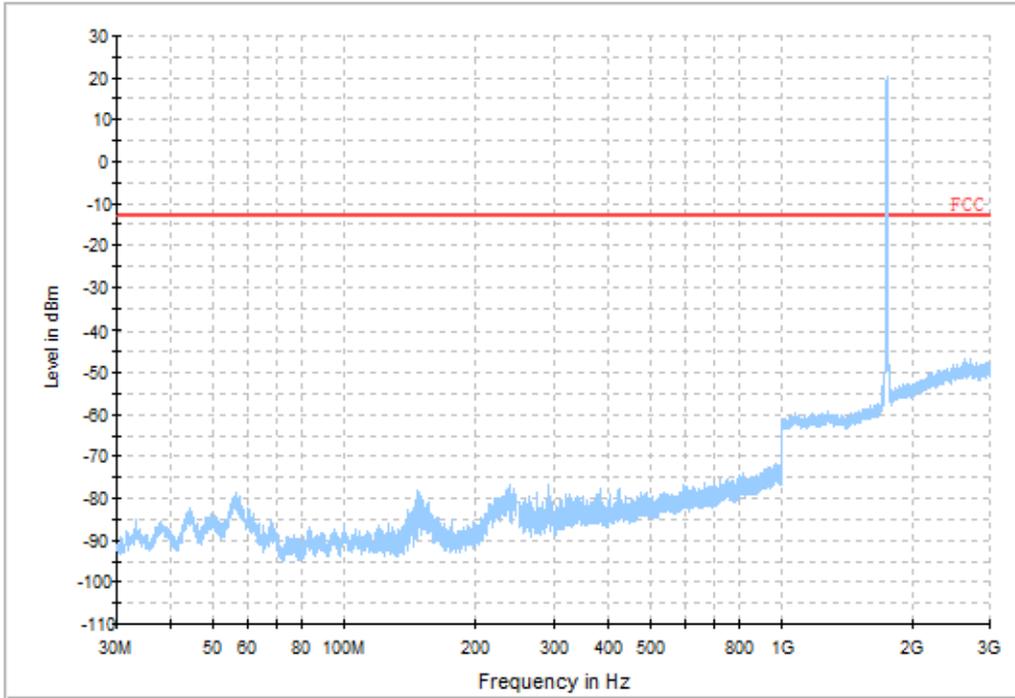


### 7.2.3 Test Band = WCDMA1700

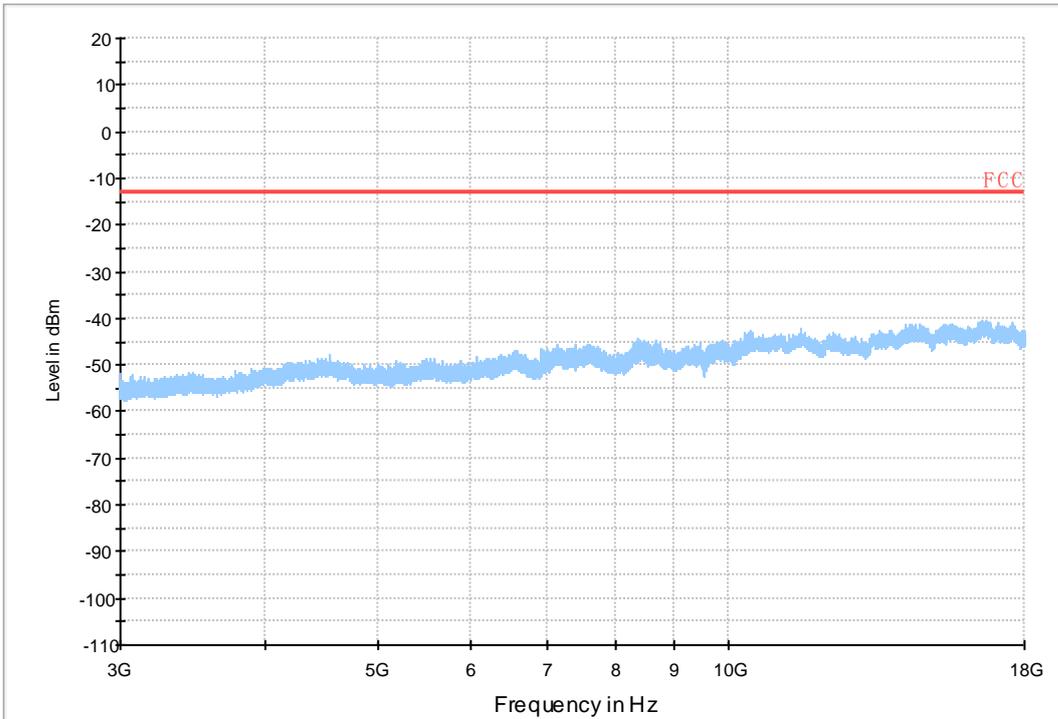
#### 7.2.3.1 Test Mode = UMTS/TM1

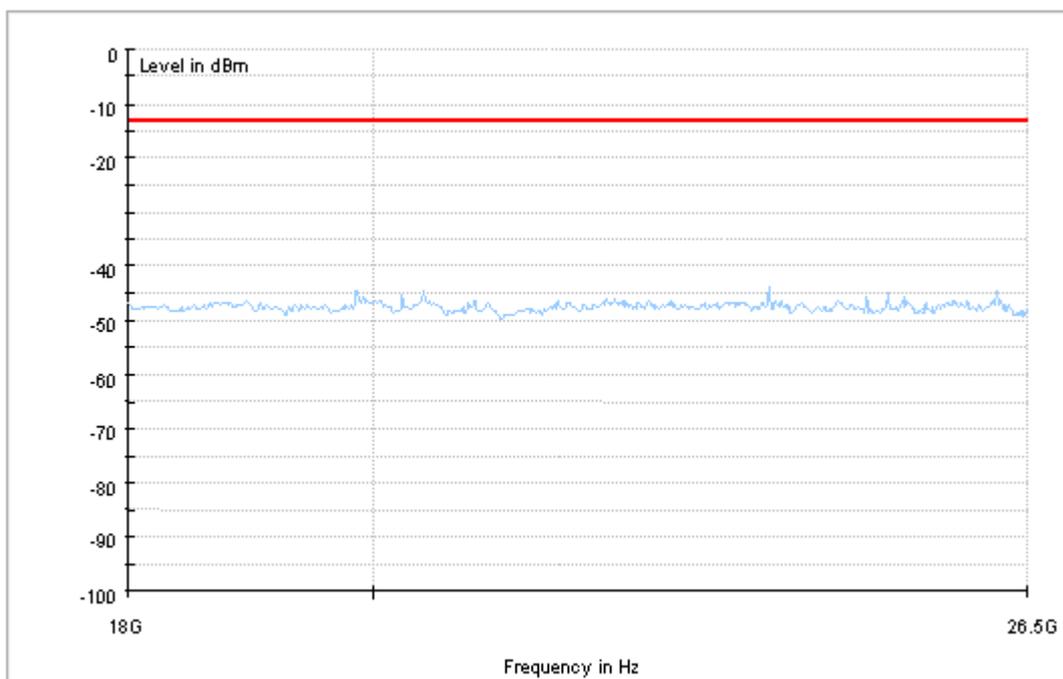


Copy of RSE - TX - UMTS BAND IV\_L



Copy of FCC PART 27 WCDMA1700\_H

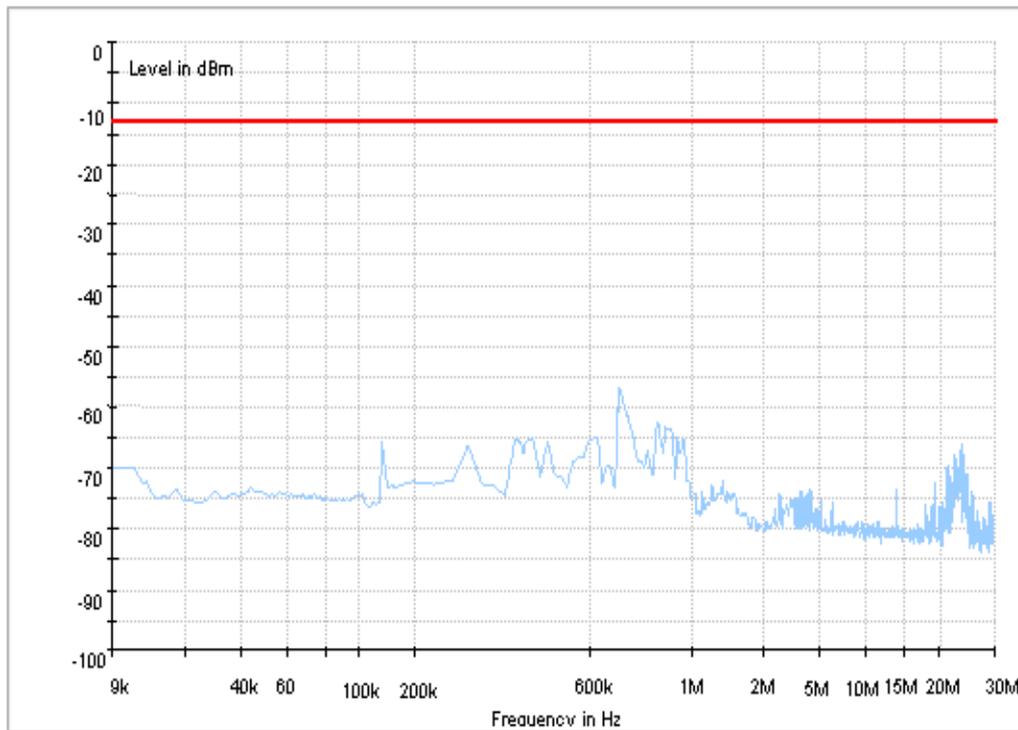




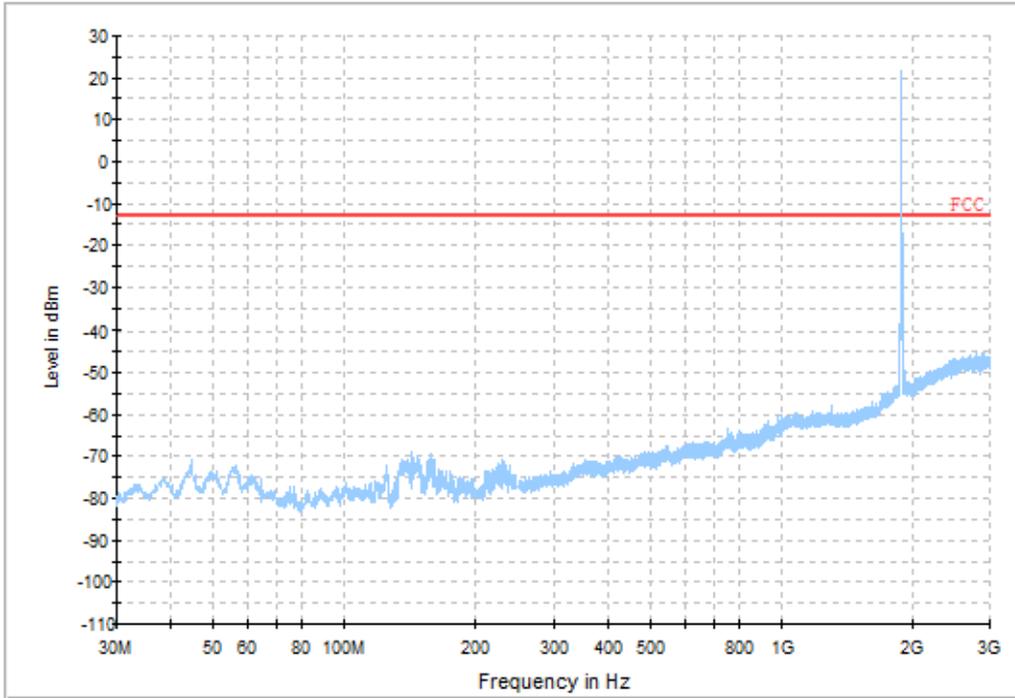
### 7.3 For LTE

#### 7.3.1 Test Band = BAND2

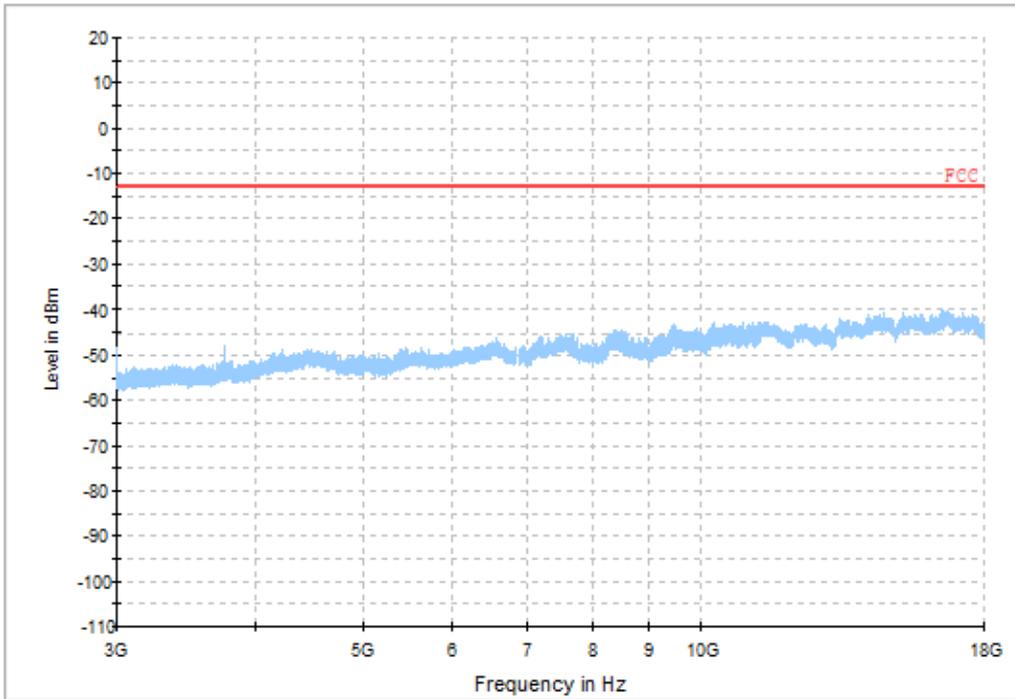
##### 7.3.1.1 Test Bandwidth = 5

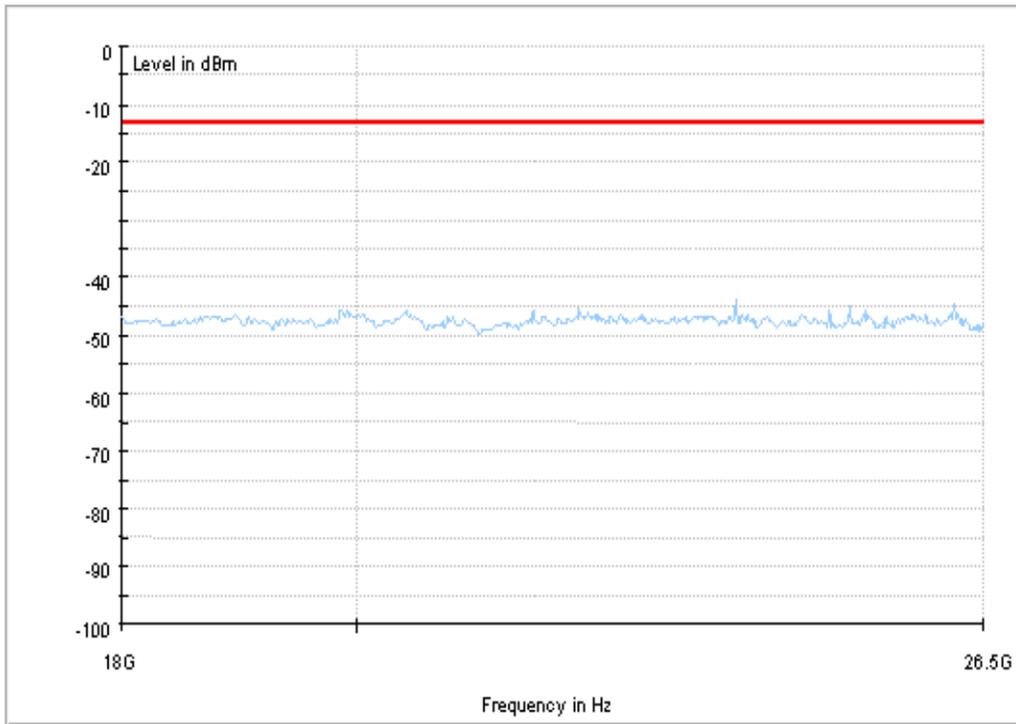


Copy of FCC PART24 LTE Band 2\_L

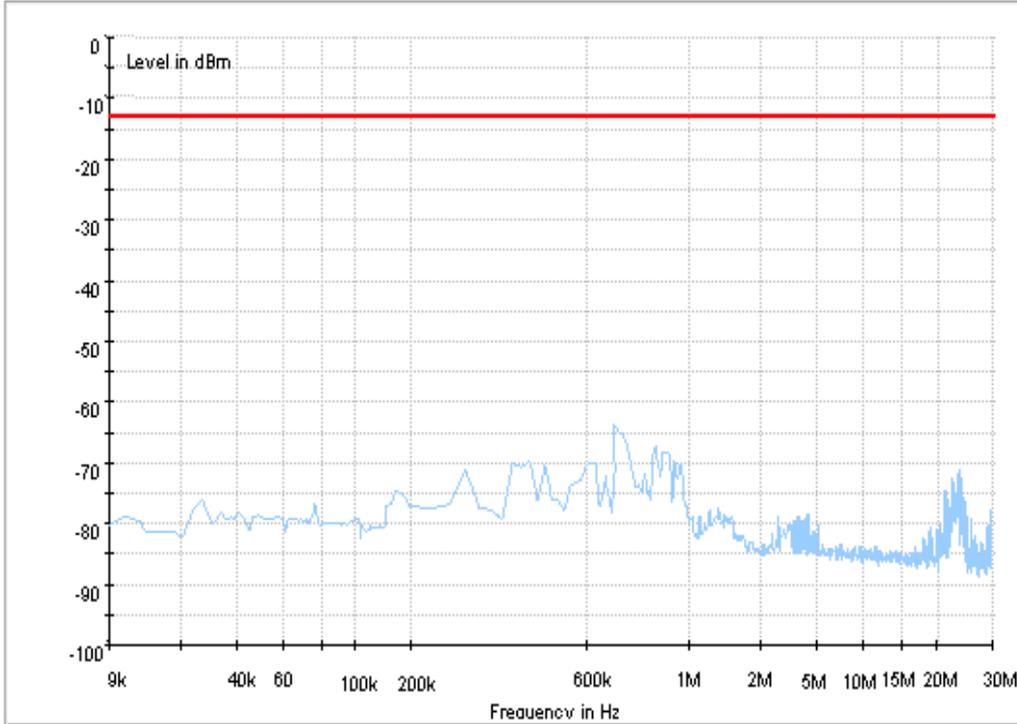


Copy of FCC PART24 LTE Band 2\_H

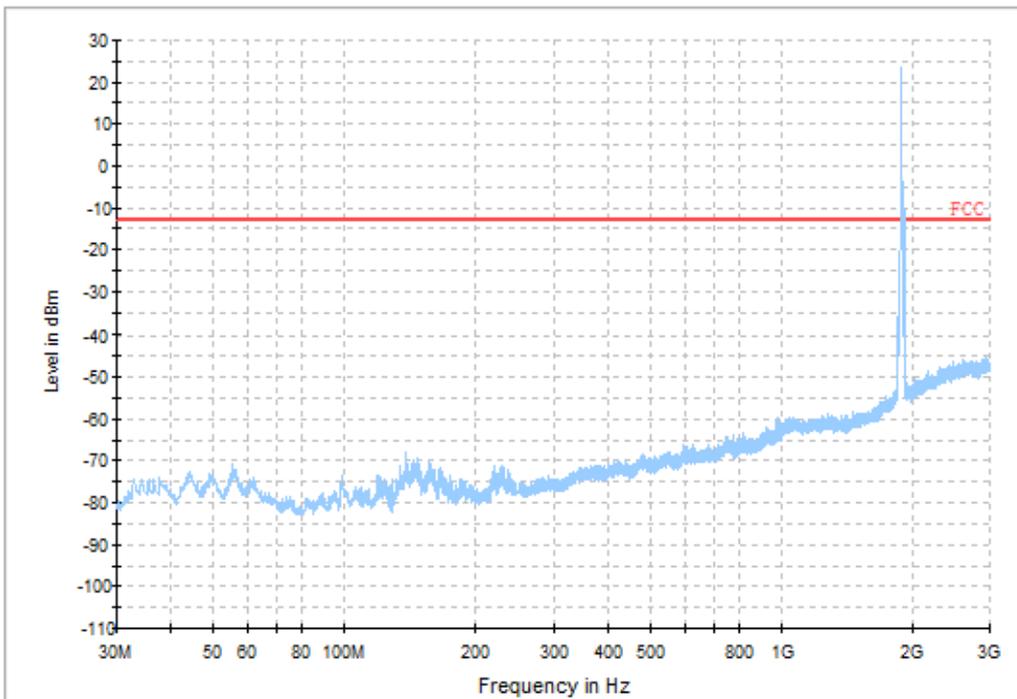




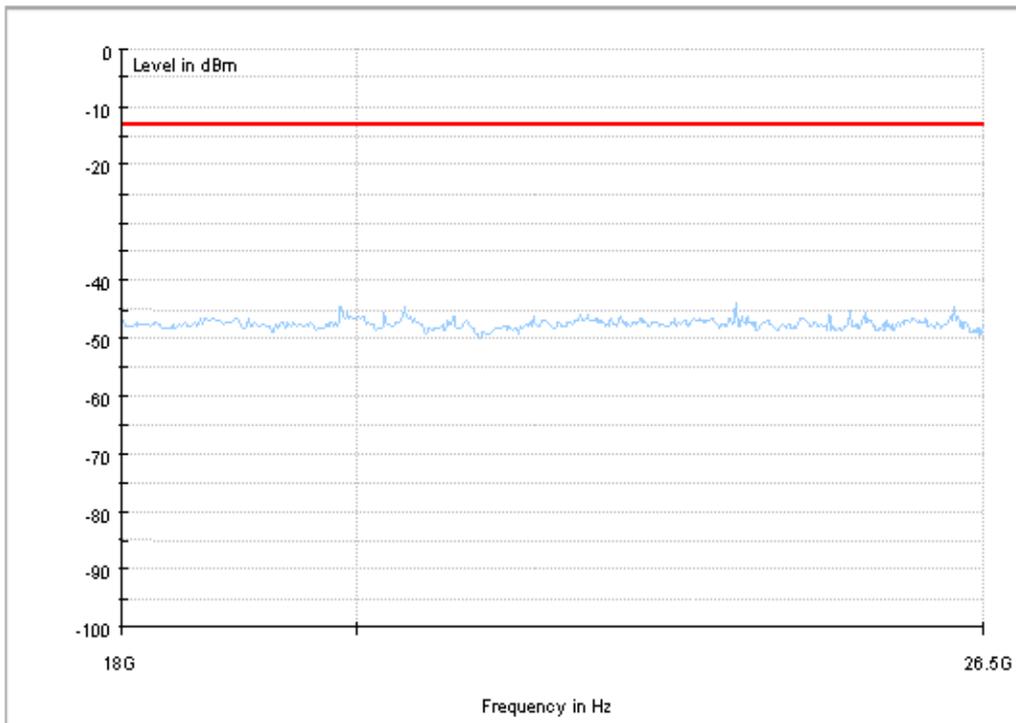
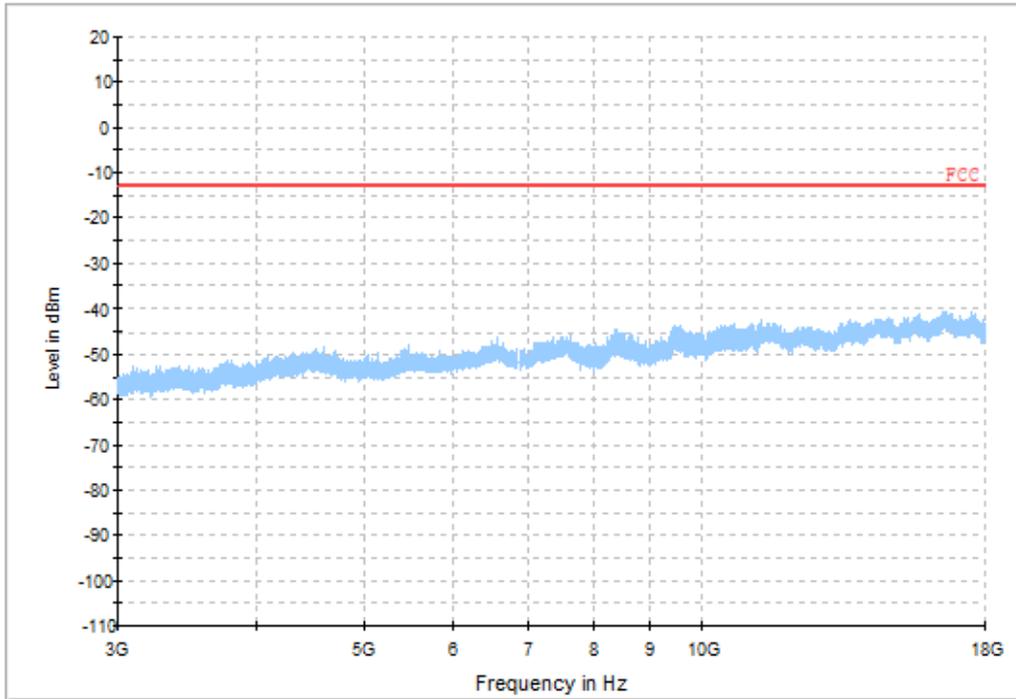
### 7.3.1.2 Test Bandwidth = 20



Copy of FCC PART24 LTE Band 2\_L

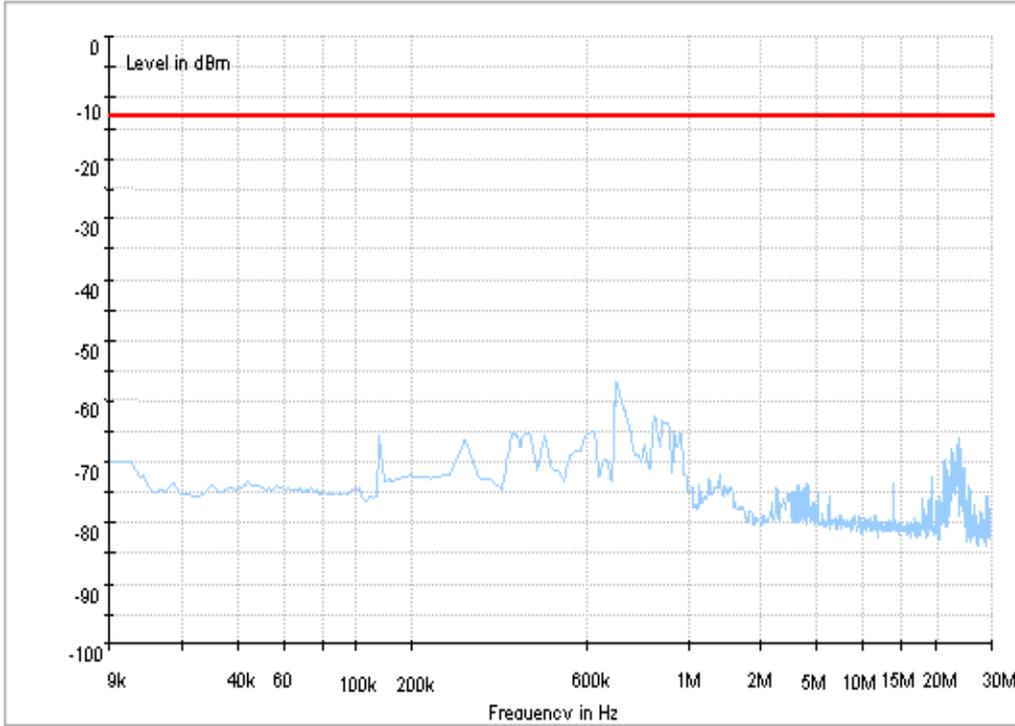


Copy of FCC PART24 LTE Band 2\_H

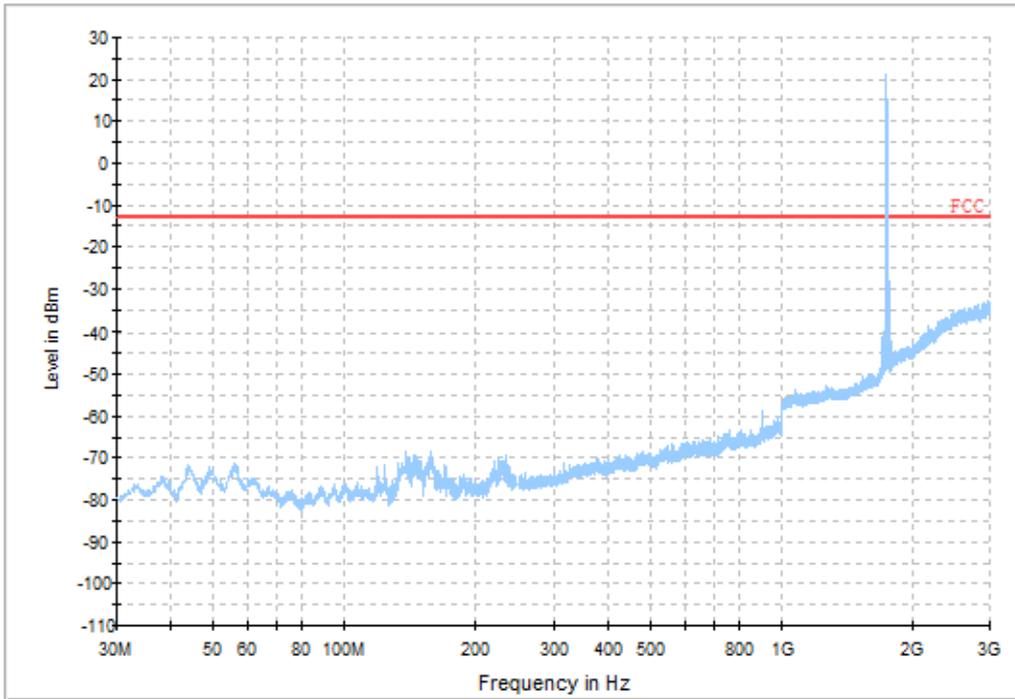


### 7.3.2 Test Band = BAND4

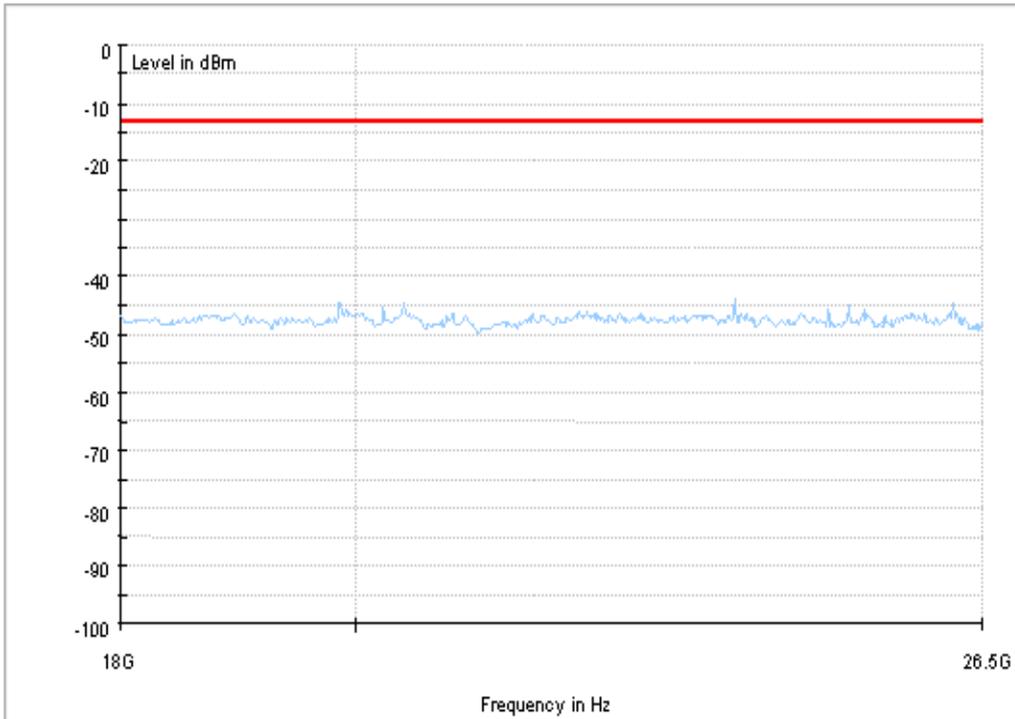
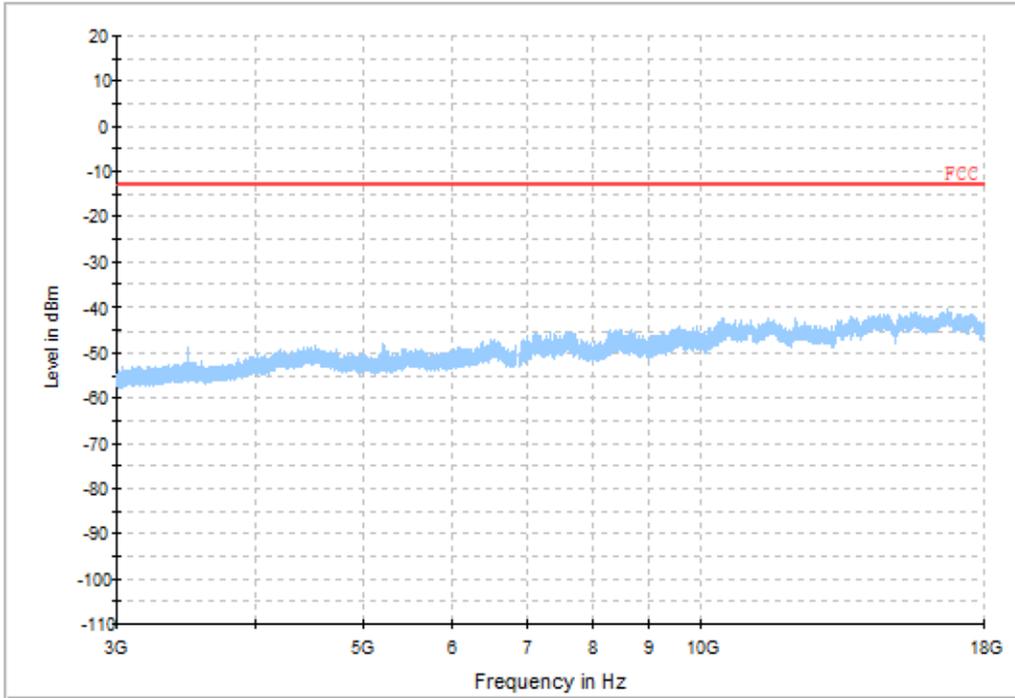
### 7.3.2.1 Test Bandwidth = 5



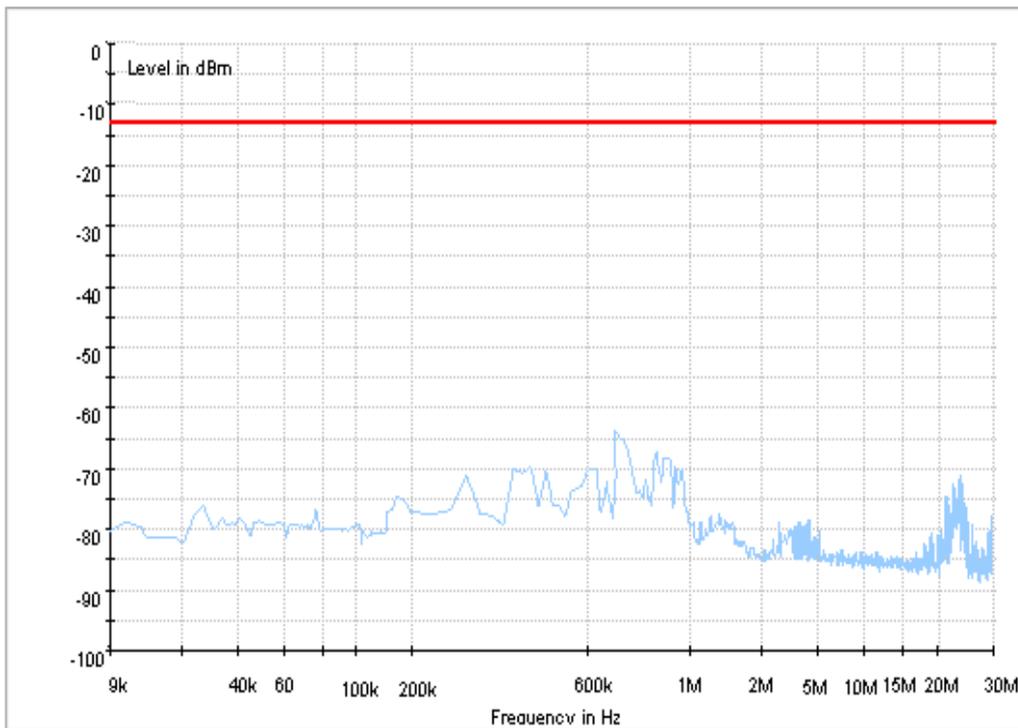
Copy of FCC PART27 LTE Band 4\_L



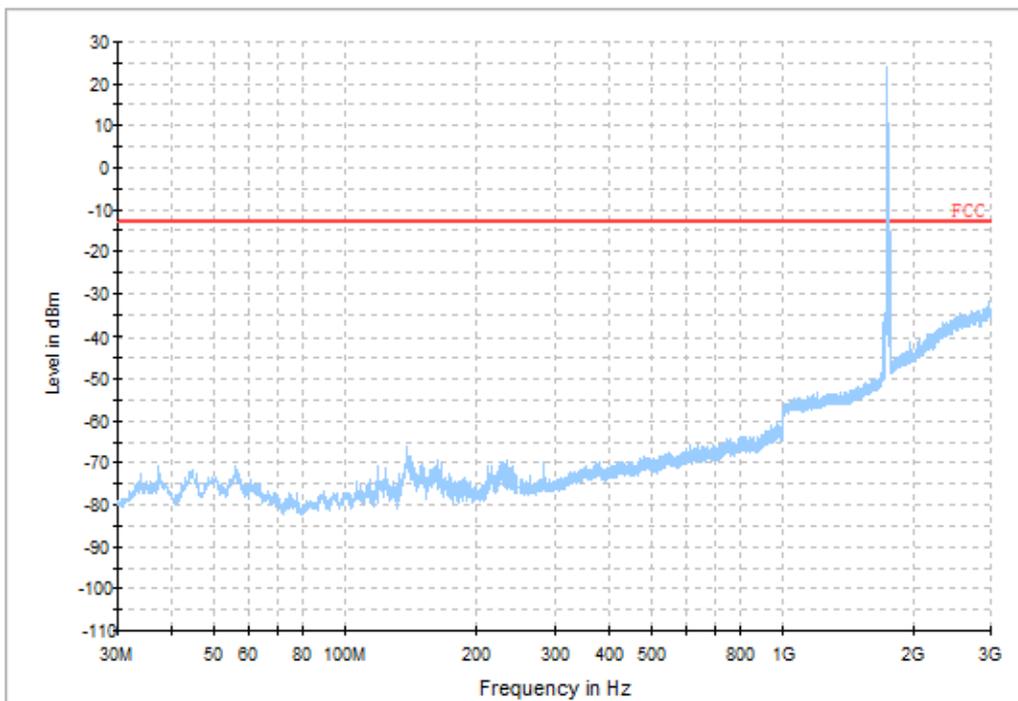
Copy of FCC PART27 LTE Band 4\_H



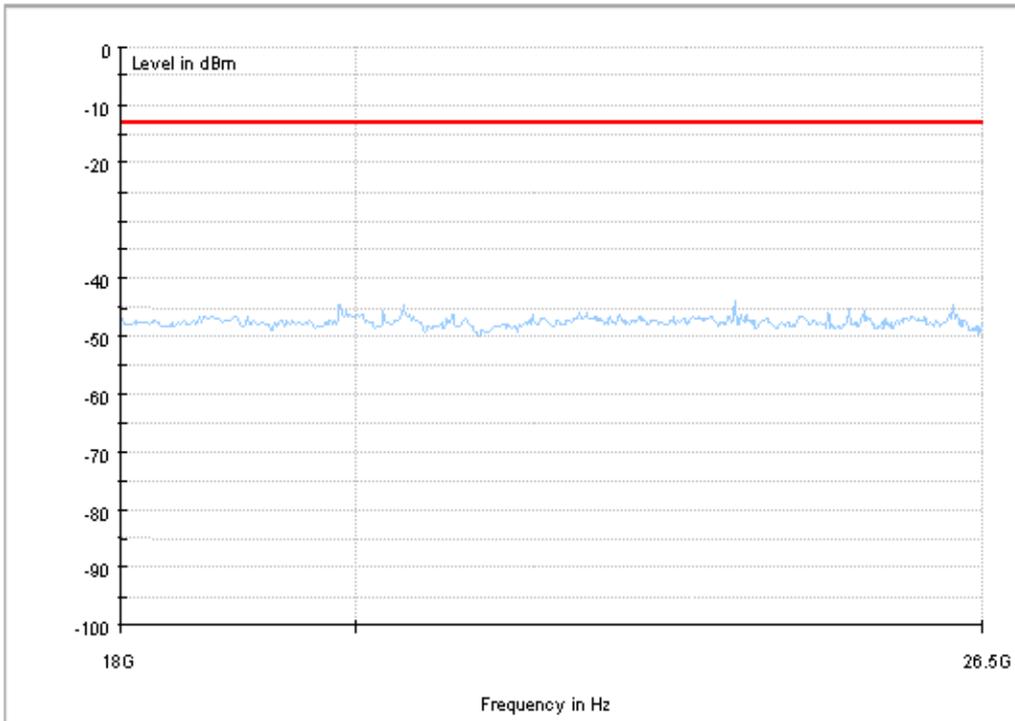
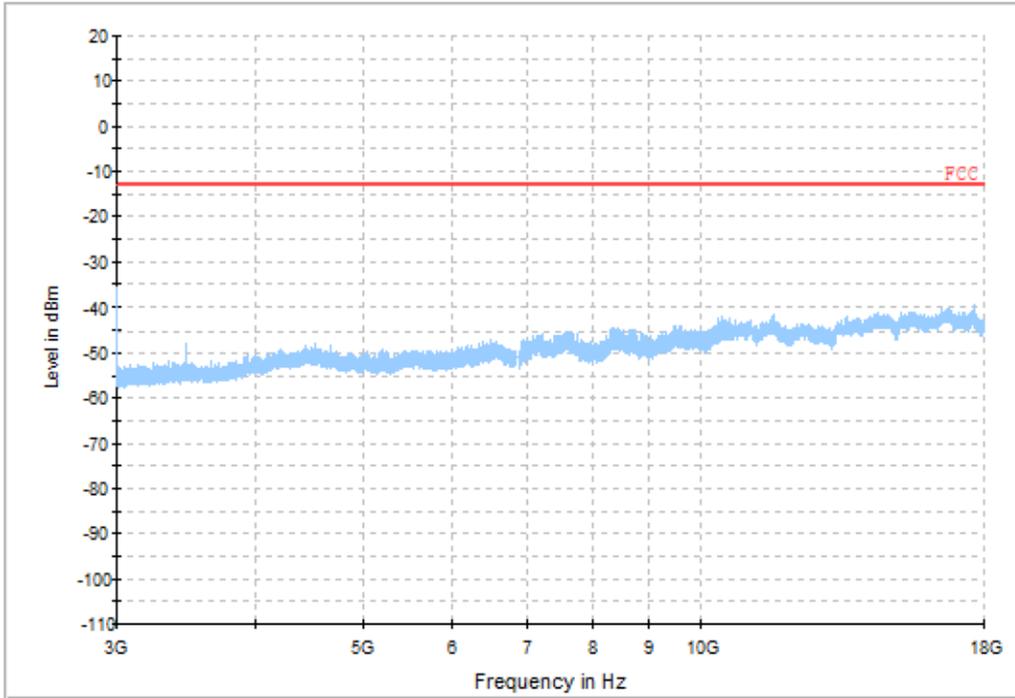
7.3.2.2 Test Bandwidth = 20



Copy of FCC PART27 LTE Band 4\_L

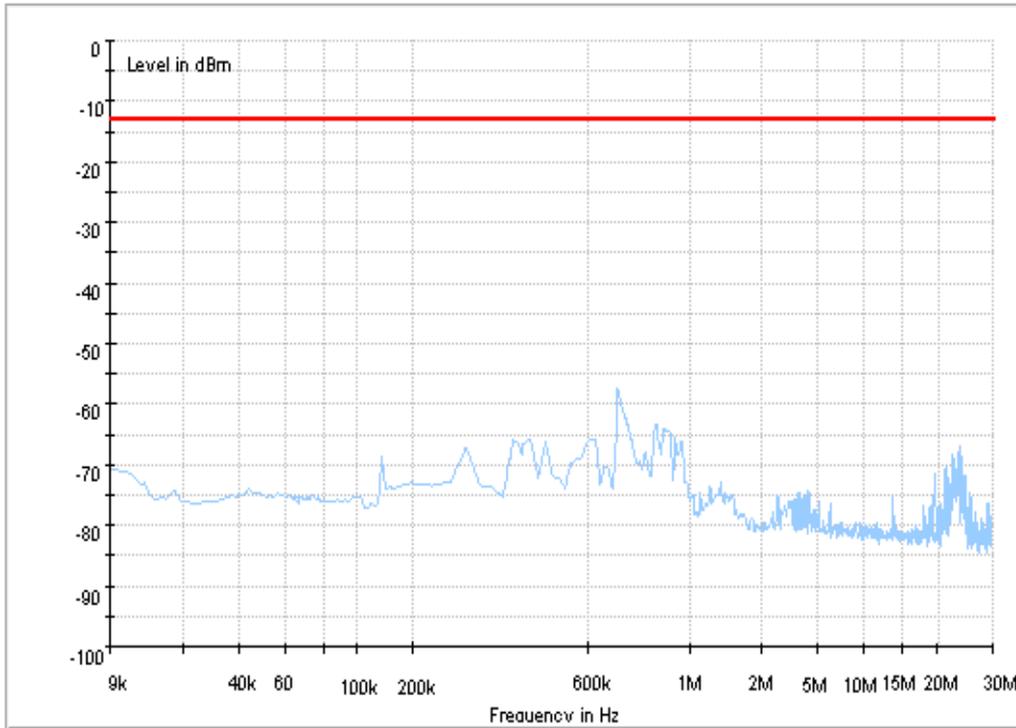


Copy of FCC PART27 LTE Band 4\_H

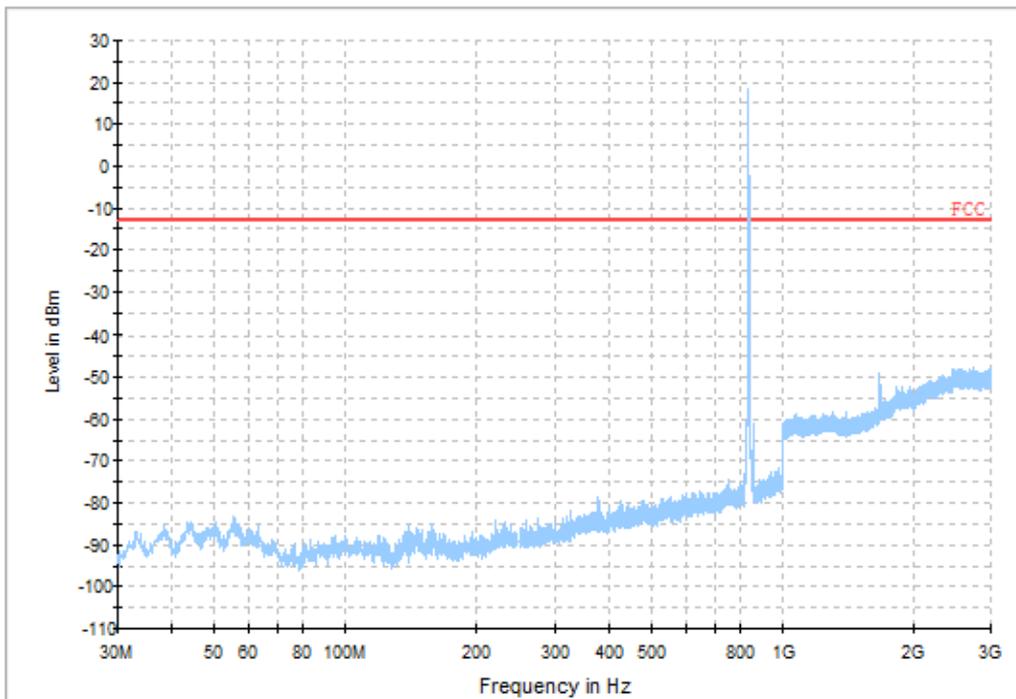


### 7.3.3 Test Band = BAND5

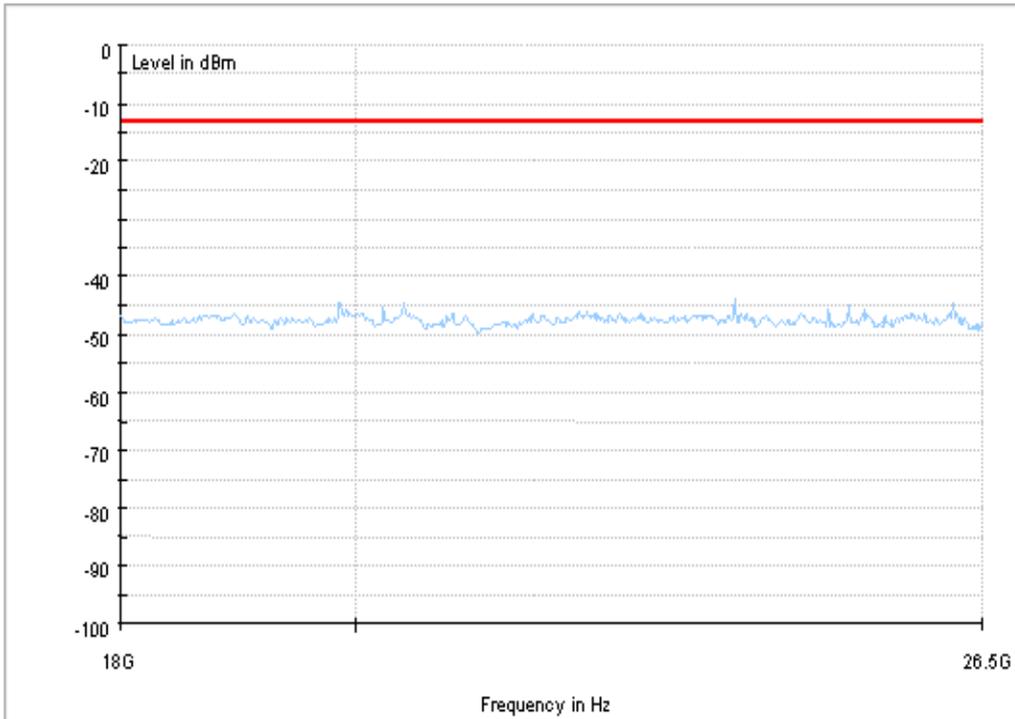
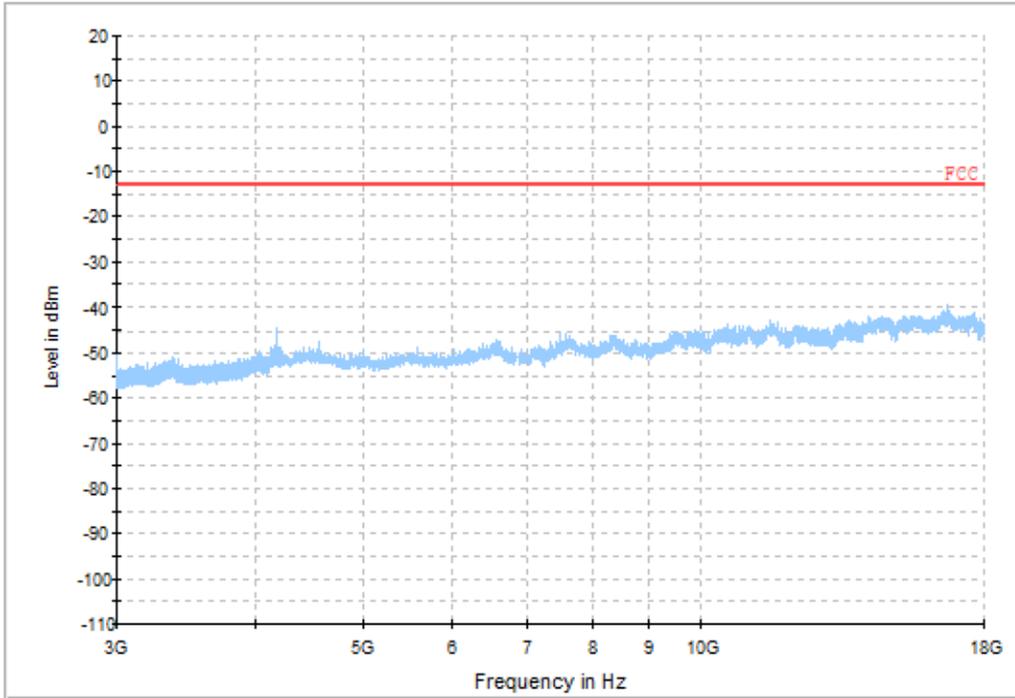
### 7.3.3.1 Test Bandwidth = 5



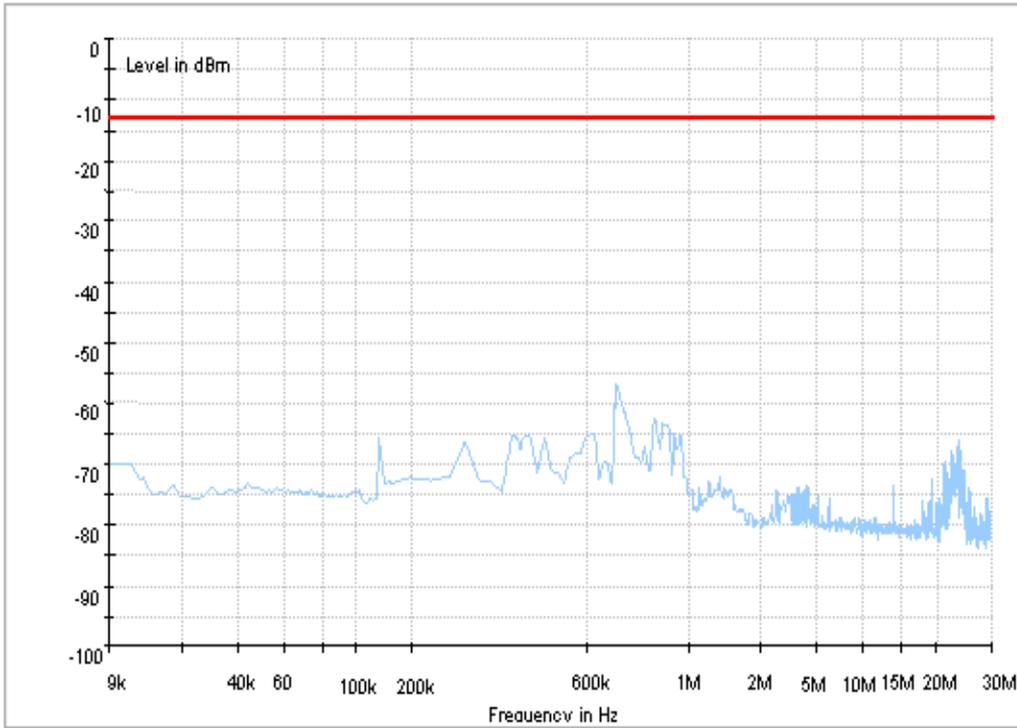
Copy of FCC PART22 LTE Band 5\_L



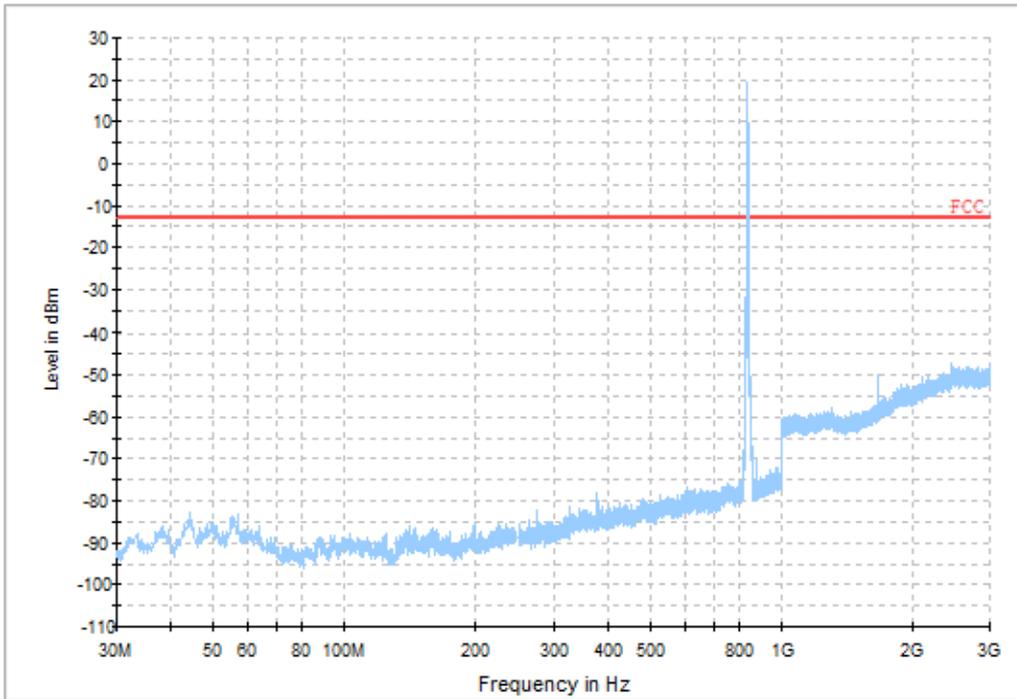
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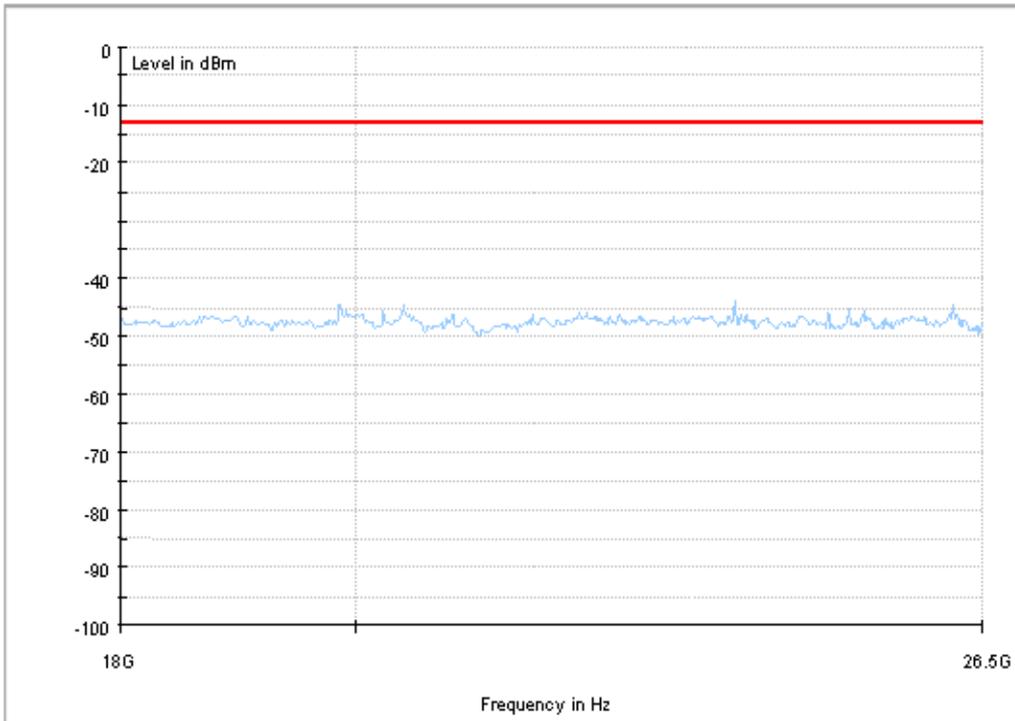
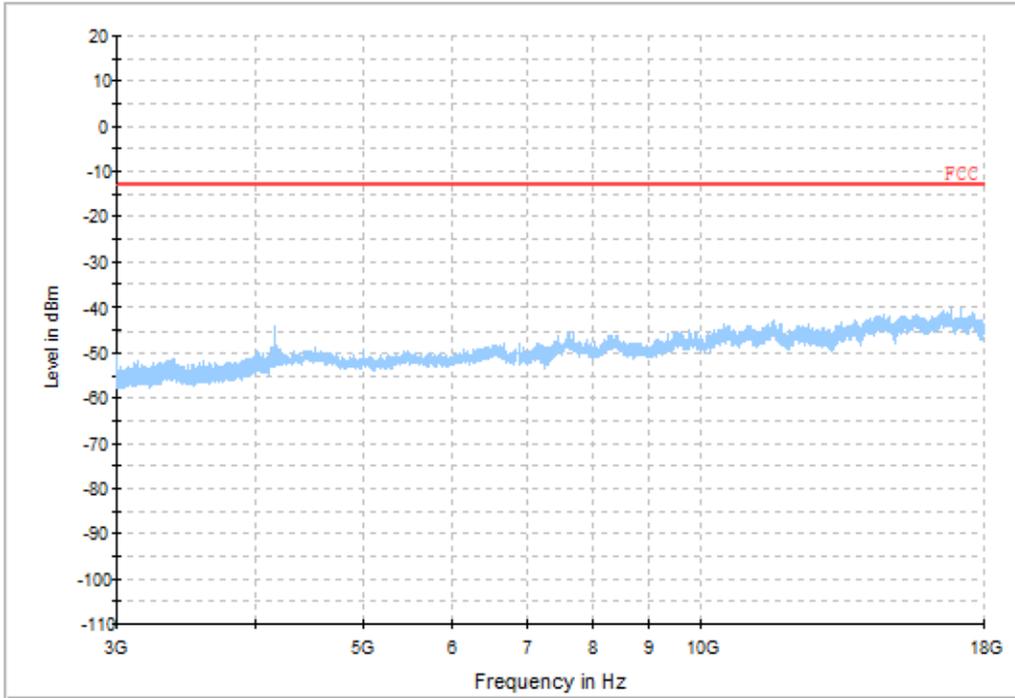
7.3.3.2 Test Bandwidth = 10



Copy of FCC PART22 LTE Band 5\_L

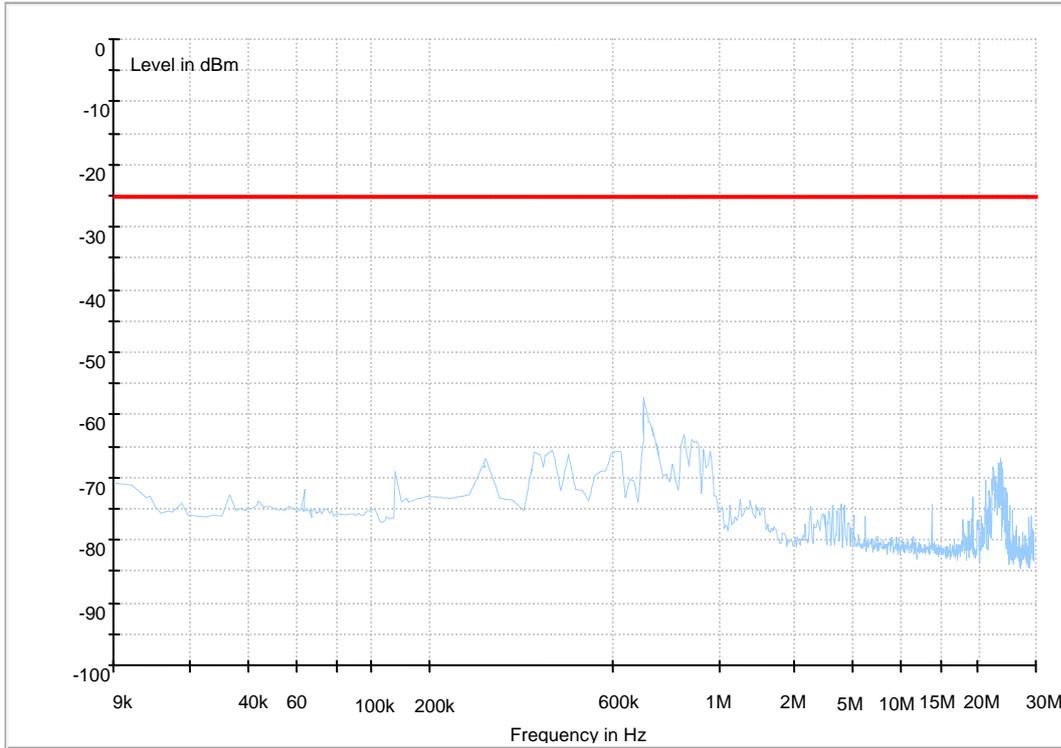


Copy of FCC PART22 LTE Band 5\_H

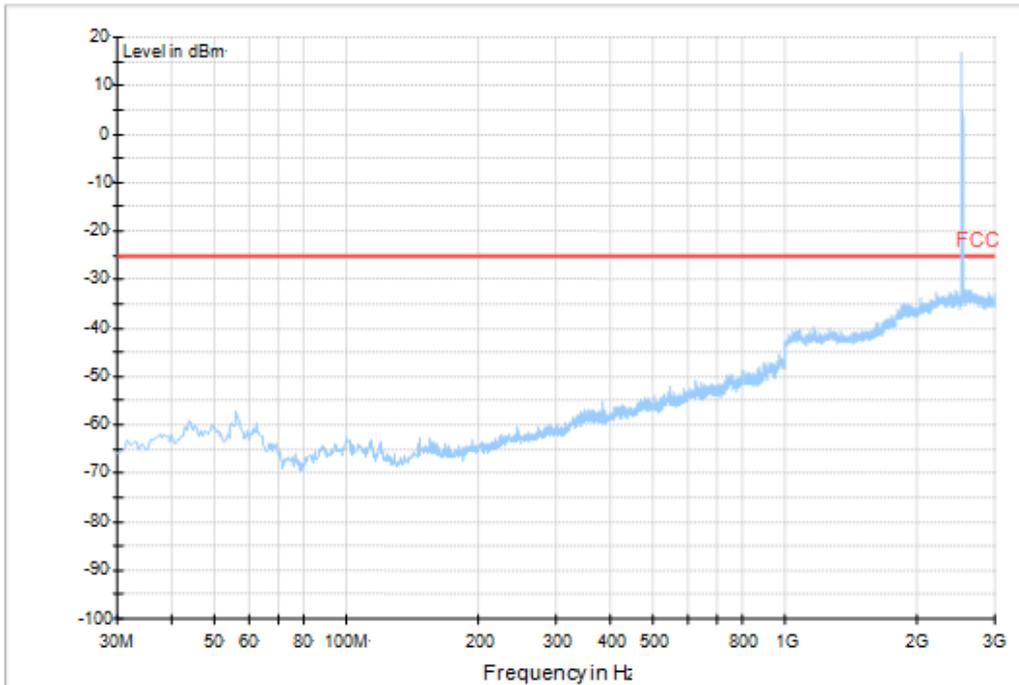


**7.3.4 Test Band = BAND7**

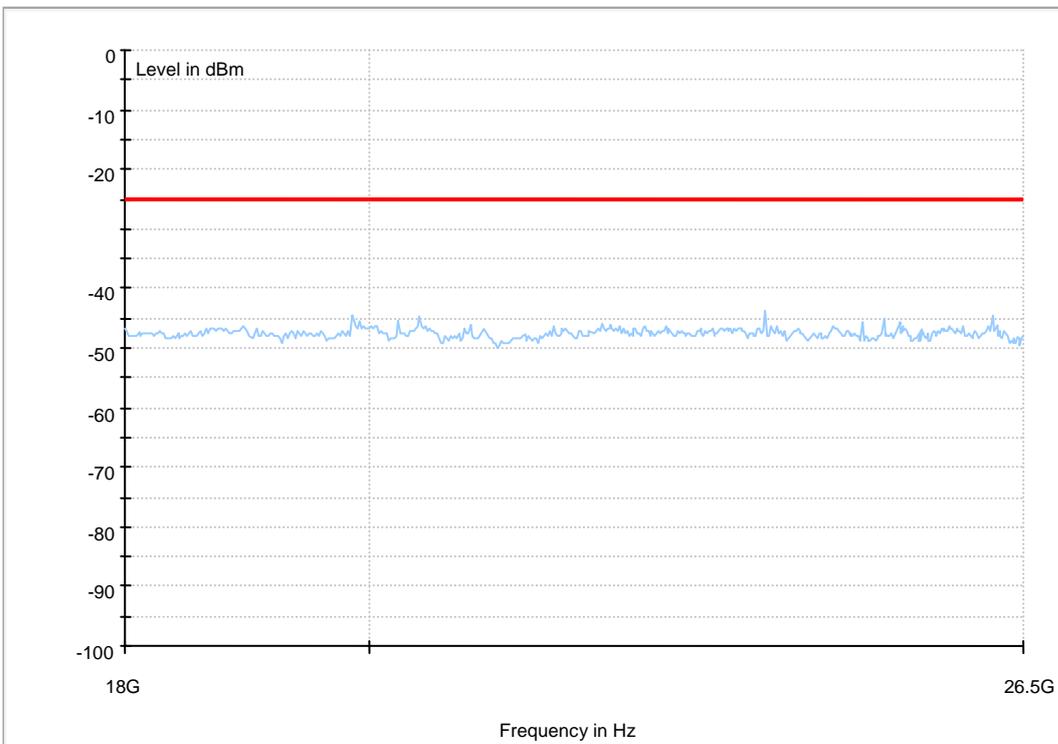
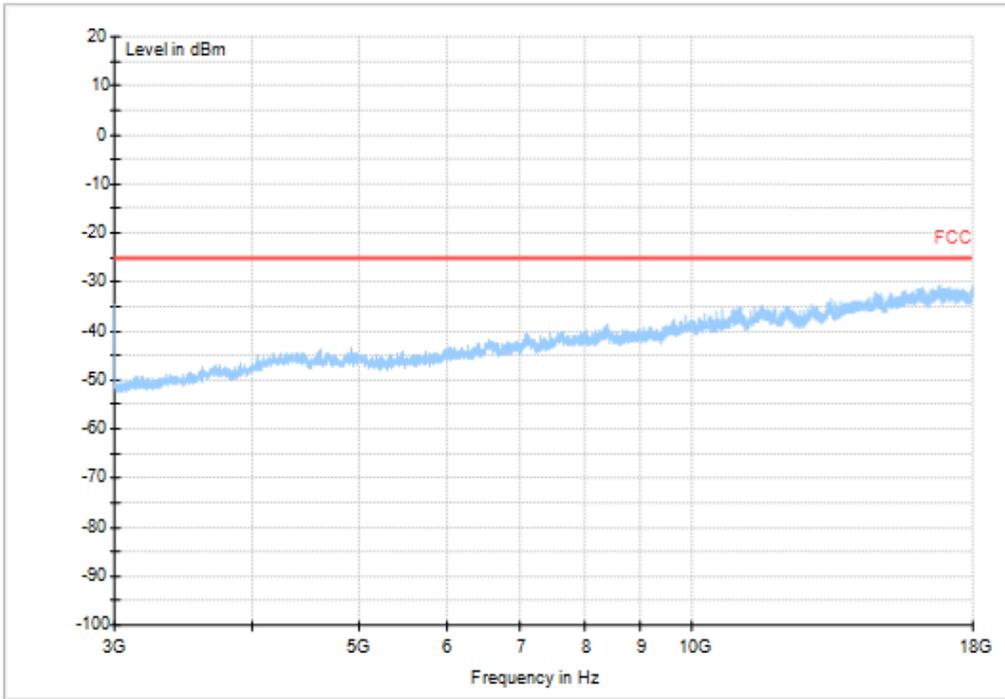
### 7.3.4.1 Test Bandwidth = 5



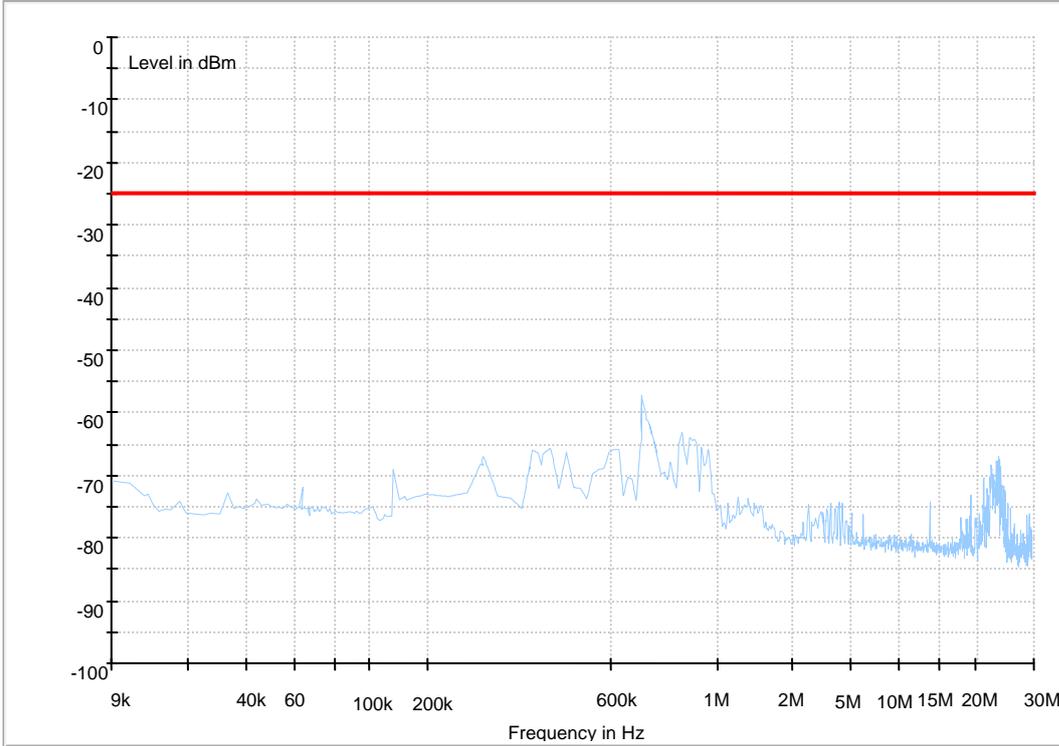
Copy of RSE-TX-DIRECTOR ABOVE 1.5G\_L



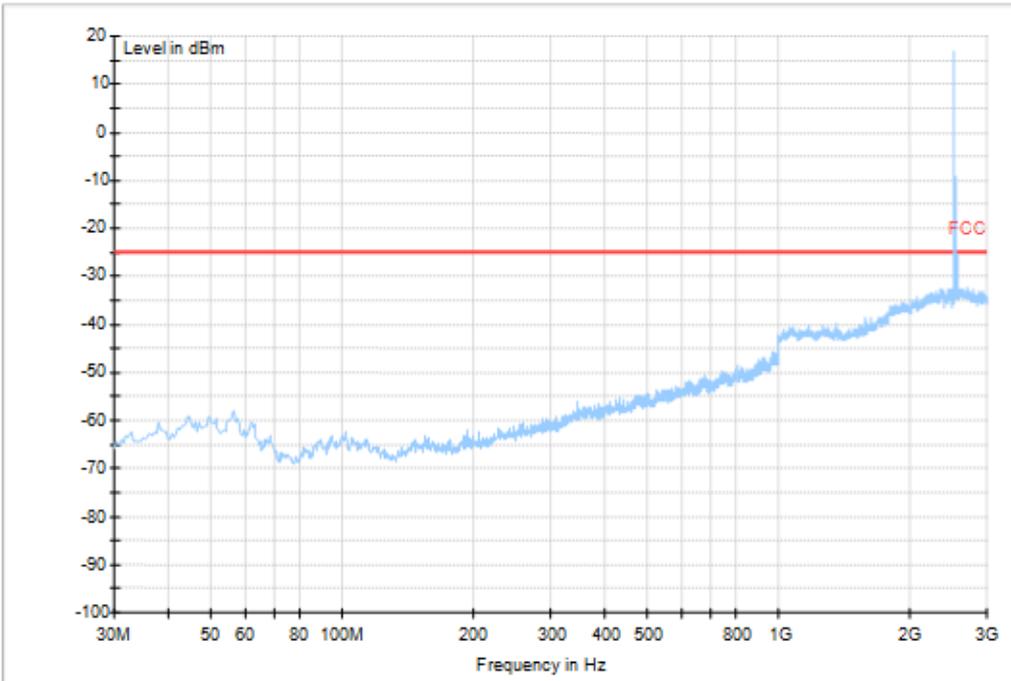
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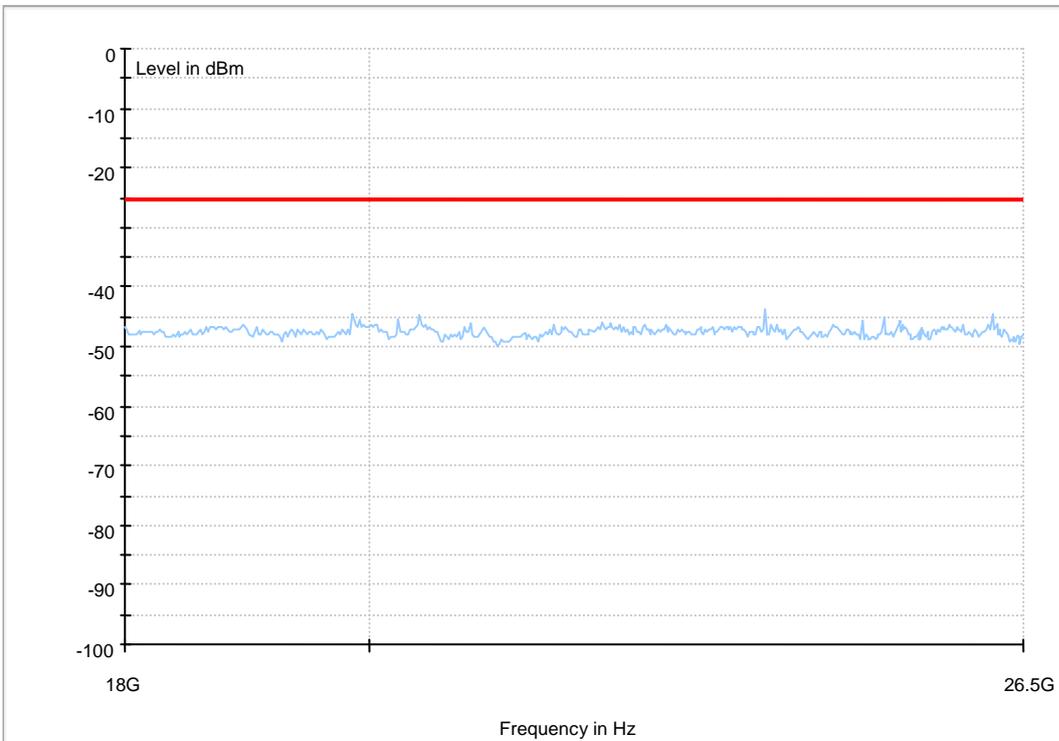
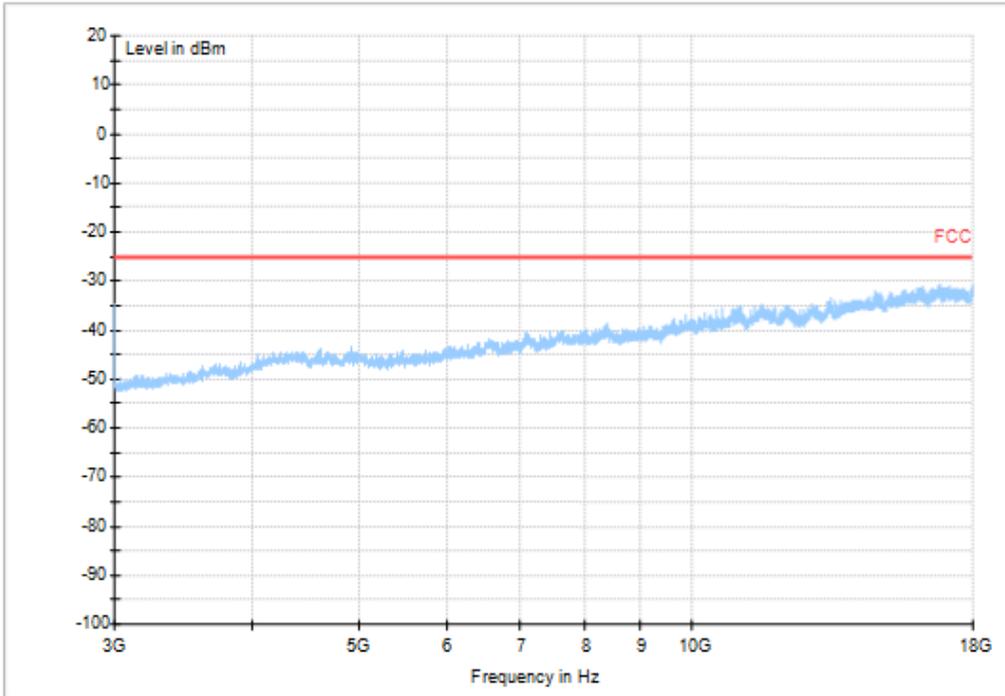
### 7.3.4.2 Test Bandwidth = 20



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 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	-1.29	-0.00157	PASS
				VN	-6.72	-0.00815	PASS
				VH	-2.45	-0.00297	PASS
		MCH	TN	VL	-9.43	-0.01127	PASS
				VN	-5.62	-0.00672	PASS
				VH	-9.36	-0.01119	PASS
		HCH	TN	VL	-8.39	-0.00988	PASS
				VN	-6.39	-0.00753	PASS
				VH	-1.74	-0.00205	PASS
	GSM/TM2	LCH	TN	VL	-11.33	-0.01375	PASS
				VN	-8.43	-0.01023	PASS
				VH	-14.66	-0.01779	PASS
		MCH	TN	VL	-18.05	-0.02158	PASS
				VN	-15.59	-0.01863	PASS
				VH	-17.69	-0.02115	PASS
		HCH	TN	VL	-16.59	-0.01955	PASS
				VN	-16.05	-0.01891	PASS
				VH	-18.14	-0.02137	PASS
GSM1900	GSM/TM1	LCH	TN	VL	-17.11	-0.00925	PASS
				VN	-15.05	-0.00813	PASS
				VH	-4.20	-0.00227	PASS
		MCH	TN	VL	-25.51	-0.01357	PASS
				VN	-38.61	-0.02054	PASS
				VH	-33.06	-0.01759	PASS
		HCH	TN	VL	-27.31	-0.0143	PASS
				VN	-26.86	-0.01406	PASS
				VH	-32.41	-0.01697	PASS
	GSM/TM2	LCH	TN	VL	-20.82	-0.01125	PASS
				VN	-18.31	-0.0099	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				VH	-20.79	-0.01124	PASS
		MCH	TN	VL	-28.90	-0.01537	PASS
				VN	-36.03	-0.01916	PASS
				VH	-39.74	-0.02114	PASS
		HCH	TN	VL	-29.74	-0.01557	PASS
				VN	-28.61	-0.01498	PASS
				VH	-34.93	-0.01829	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	-3.16	-0.00383	PASS		
				-20	-5.75	-0.00698	PASS		
				-10	-7.10	-0.00861	PASS		
				0	-6.46	-0.00784	PASS		
				10	-6.26	-0.0076	PASS		
				20	-3.55	-0.00431	PASS		
				30	-5.75	-0.00698	PASS		
				40	-6.07	-0.00736	PASS		
				50	-2.32	-0.00281	PASS		
		MCH	VN	-30	-13.43	-0.01605	PASS		
				-20	-7.68	-0.00918	PASS		
				-10	-12.01	-0.01436	PASS		
				0	-12.46	-0.01489	PASS		
				10	-10.33	-0.01235	PASS		
				20	-11.88	-0.0142	PASS		
				30	-13.82	-0.01652	PASS		
				40	-10.53	-0.01259	PASS		
				50	-8.07	-0.00965	PASS		
		HCH	VN	-30	-4.58	-0.0054	PASS		
				-20	-10.20	-0.01202	PASS		
				-10	-7.81	-0.0092	PASS		
				0	-5.42	-0.00639	PASS		
				10	-6.65	-0.00783	PASS		
				20	-5.75	-0.00677	PASS		
				30	-7.68	-0.00905	PASS		
				40	-4.84	-0.0057	PASS		
				50	-3.75	-0.00442	PASS		
			GSM/TM2	LCH	VN	-30	-19.92	-0.02417	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict						
				-20	-19.92	-0.02417	PASS						
				-10	-13.79	-0.01673	PASS						
				0	-13.40	-0.01626	PASS						
				10	-15.40	-0.01868	PASS						
				20	-18.02	-0.02186	PASS						
				30	-20.34	-0.02468	PASS						
				40	-22.02	-0.02672	PASS						
				50	-23.54	-0.02856	PASS						
		MCH	VN			-30	-22.18	-0.02651	PASS				
						-20	-20.70	-0.02474	PASS				
						-10	-20.66	-0.0247	PASS				
						0	-20.73	-0.02478	PASS				
						10	-20.53	-0.02454	PASS				
						20	-21.70	-0.02594	PASS				
						30	-21.53	-0.02574	PASS				
						40	-17.76	-0.02123	PASS				
		HCH	VN			50	-24.57	-0.02937	PASS				
						-30	-15.50	-0.01826	PASS				
						-20	-18.21	-0.02145	PASS				
						-10	-14.50	-0.01708	PASS				
						0	-15.59	-0.01837	PASS				
						10	-12.30	-0.01449	PASS				
						20	-10.88	-0.01282	PASS				
						30	-14.98	-0.01765	PASS				
		GSM1900	GSM/TM1	LCH	VN					40	-14.08	-0.01659	PASS
										50	-18.69	-0.02202	PASS
										-30	-14.08	-0.00761	PASS
-20	-14.21									-0.00768	PASS		
-10	-20.53									-0.0111	PASS		
0	-2.65									-0.00143	PASS		
10	-4.91									-0.00265	PASS		
20	-7.49									-0.00405	PASS		
MCH	VN									30	-7.23	-0.00391	PASS
										40	-4.58	-0.00248	PASS
										50	-14.08	-0.00761	PASS
										-30	-31.96	-0.017	PASS
										-20	-29.51	-0.0157	PASS
										-10	-41.39	-0.02202	PASS
0	-32.03	-0.01704	PASS										
10	-31.83	-0.01693	PASS										



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
				20	-28.09	-0.01494	PASS		
				30	-33.90	-0.01803	PASS		
				40	-31.06	-0.01652	PASS		
				50	-28.93	-0.01539	PASS		
		HCH	VN			-30	-21.18	-0.01109	PASS
						-20	-21.31	-0.01116	PASS
						-10	-20.15	-0.01055	PASS
						0	-25.51	-0.01336	PASS
						10	-25.63	-0.01342	PASS
						20	-32.74	-0.01714	PASS
						30	-30.28	-0.01586	PASS
						40	-26.41	-0.01383	PASS
						50	-20.73	-0.01085	PASS
						GSM/TM2	LCH	VN	
	-20	-14.53	-0.00785	PASS					
	-10	-14.11	-0.00763	PASS					
	0	-10.14	-0.00548	PASS					
	10	-11.91	-0.00644	PASS					
	20	-20.02	-0.01082	PASS					
	30	-21.73	-0.01174	PASS					
	40	-21.15	-0.01143	PASS					
	50	-23.02	-0.01244	PASS					
	MCH	VN			-30		-34.29	-0.01824	PASS
					-20		-30.38	-0.01616	PASS
					-10		-40.20	-0.02138	PASS
					0		-37.55	-0.01997	PASS
					10		-38.90	-0.02069	PASS
					20		-38.42	-0.02044	PASS
					30		-32.19	-0.01712	PASS
					40	-41.36	-0.022	PASS	
	HCH	VN			50	-38.16	-0.0203	PASS	
					-30	-40.62	-0.02127	PASS	
					-20	-35.77	-0.01873	PASS	
					-10	-22.63	-0.01185	PASS	
					0	-40.81	-0.02137	PASS	
					10	-43.13	-0.02258	PASS	
					20	-25.83	-0.01352	PASS	
					30	-31.25	-0.01636	PASS	
	40	-40.33	-0.02112	PASS					
	50	-26.96	-0.01412	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	-1.66	-0.00201	PASS
				VN	-12.24	-0.01481	PASS
				VH	-7.31	-0.00885	PASS
		MCH	TN	VL	-0.49	-0.00059	PASS
				VN	-0.56	-0.00067	PASS
				VH	-5.34	-0.00638	PASS
		HCH	TN	VL	2.62	0.00309	PASS
				VN	-4.76	-0.00562	PASS
				VH	-0.37	-0.00044	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	-7.46	-0.00403	PASS
				VN	-3.91	-0.00211	PASS
				VH	-1.13	-0.00061	PASS
		MCH	TN	VL	-2.94	-0.00156	PASS
				VN	-5.17	-0.00275	PASS
				VH	-6.00	-0.00319	PASS
		HCH	TN	VL	-15.88	-0.00832	PASS
				VN	-8.68	-0.00455	PASS
				VH	-5.91	-0.0031	PASS
WCDMA1700	UMTS/TM1	LCH	TN	VL	-1.82	-0.00106	PASS
				VN	-3.46	-0.00202	PASS
				VH	-0.26	-0.00015	PASS
		MCH	TN	VL	6.32	0.00365	PASS
				VN	2.26	0.0013	PASS
				VH	5.07	0.00293	PASS
		HCH	TN	VL	-4.43	-0.00253	PASS
				VN	10.24	0.00584	PASS
				VH	1.01	0.00058	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	-2.96	-0.00358	PASS
				-20	-1.25	-0.00151	PASS
				-10	-0.84	-0.00102	PASS
				0	1.07	0.00129	PASS
				10	2.61	0.00316	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict						
				20	3.14	0.0038	PASS						
				30	-3.86	-0.00467	PASS						
				40	-2.01	-0.00243	PASS						
				50	-4.73	-0.00572	PASS						
		MCH	VN			-30	-4.59	-0.00549	PASS				
						-20	-14.37	-0.01718	PASS				
						-10	-7.03	-0.00841	PASS				
						0	-1.01	-0.00121	PASS				
						10	-4.20	-0.00502	PASS				
						20	-0.69	-0.00082	PASS				
						30	-0.87	-0.00104	PASS				
						40	-2.47	-0.00295	PASS				
						50	-5.20	-0.00622	PASS				
						HCH	VN			-30	2.14	0.00253	PASS
		-20	-4.44	-0.00524	PASS								
		-10	-0.03	-0.00004	PASS								
		0	-10.35	-0.01223	PASS								
		10	-6.16	-0.00728	PASS								
		20	-3.11	-0.00367	PASS								
		30	-8.45	-0.00998	PASS								
		40	-0.64	-0.00076	PASS								
		50	-8.00	-0.00945	PASS								
		WCDMA1900	UMTS/TM1	LCH	VN					-30	3.52	0.0019	PASS
										-20	4.91	0.00265	PASS
										-10	1.27	0.00069	PASS
										0	-4.09	-0.00221	PASS
										10	-15.84	-0.00855	PASS
										20	-2.35	-0.00127	PASS
30	-4.06									-0.00219	PASS		
40	-5.68									-0.00307	PASS		
50	-6.52									-0.00352	PASS		
MCH	VN									-30	-13.44	-0.00715	PASS
										-20	-5.26	-0.0028	PASS
										-10	-1.45	-0.00077	PASS
										0	-4.59	-0.00244	PASS
										10	3.71	0.00197	PASS
										20	-4.68	-0.00249	PASS
										30	-3.48	-0.00185	PASS
										40	-5.46	-0.0029	PASS
										50	-3.94	-0.0021	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		HCH	VN	-30	-6.42	-0.00337	PASS
				-20	-1.91	-0.001	PASS
				-10	-4.75	-0.00249	PASS
				0	-15.78	-0.00827	PASS
				10	-0.02	-0.00001	PASS
				20	-7.98	-0.00418	PASS
				30	-0.90	-0.00047	PASS
				40	-5.89	-0.00309	PASS
				50	-6.35	-0.00333	PASS
WCDMA1700	UMTS/TM1	LCH	VN	-30	0.95	0.00055	PASS
				-20	-0.03	-0.00002	PASS
				-10	1.07	0.00062	PASS
				0	4.73	0.00276	PASS
				10	-5.49	-0.00321	PASS
				20	-0.60	-0.00035	PASS
				30	3.98	0.00232	PASS
				40	-5.60	-0.00327	PASS
				50	5.62	0.00328	PASS
		MCH	VN	-30	1.36	0.00078	PASS
				-20	2.79	0.00161	PASS
				-10	-2.20	-0.00127	PASS
				0	6.10	0.00352	PASS
				10	-1.31	-0.00076	PASS
				20	-4.62	-0.00267	PASS
				30	-0.34	-0.0002	PASS
				40	3.68	0.00212	PASS
				50	0.81	0.00047	PASS
		HCH	VN	-30	5.71	0.00326	PASS
				-20	4.61	0.00263	PASS
				-10	5.74	0.00328	PASS
				0	-4.24	-0.00242	PASS
				10	-0.34	-0.00019	PASS
				20	-2.81	-0.0016	PASS
				30	3.72	0.00212	PASS
				40	-0.63	-0.00036	PASS
				50	3.30	0.00188	PASS

8.3 For LTE

8.3.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND2	LTE/TM1	5	LCH	TN	VL	3.10	0.00167	PASS
					VN	5.95	0.00321	PASS
					VH	4.52	0.00244	PASS
			MCH	TN	VL	-0.62	-0.00033	PASS
					VN	0.51	0.00027	PASS
					VH	3.05	0.00162	PASS
			HCH	TN	VL	4.13	0.00217	PASS
					VN	3.88	0.00203	PASS
					VH	4.12	0.00216	PASS
		10	LCH	TN	VL	1.69	0.00091	PASS
					VN	3.25	0.00175	PASS
					VH	-0.27	-0.00015	PASS
			MCH	TN	VL	2.93	0.00156	PASS
					VN	-0.66	-0.00035	PASS
					VH	0.63	0.00034	PASS
			HCH	TN	VL	1.23	0.00065	PASS
					VN	4.31	0.00226	PASS
					VH	-0.70	-0.00037	PASS
		15	LCH	TN	VL	0.94	0.00051	PASS
					VN	-0.40	-0.00022	PASS
					VH	-1.86	-0.001	PASS
			MCH	TN	VL	-0.99	-0.00053	PASS
					VN	-2.16	-0.00115	PASS
					VH	-0.82	-0.00044	PASS
			HCH	TN	VL	1.52	0.0008	PASS
					VN	3.46	0.00182	PASS
					VH	-1.44	-0.00076	PASS
		20	LCH	TN	VL	-39.40	-.02118	PASS
					VN	2.07	0.00111	PASS
					VH	2.47	0.00133	PASS
MCH	TN		VL	-0.46	-0.00024	PASS		
			VN	-0.92	-0.00049	PASS		
			VH	-0.56	-0.0003	PASS		
HCH	TN		VL	0.56	0.00029	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2				VN	-0.62	-0.00033	PASS
					VH	1.02	0.00054	PASS
		5	LCH	TN	VL	-3.42	-0.00185	PASS
					VN	5.55	0.003	PASS
					VH	3.13	0.00169	PASS
					VL	2.72	0.00145	PASS
					VN	-0.20	-0.00011	PASS
					VH	-1.65	-0.00088	PASS
			MCH	TN	VL	5.11	0.00268	PASS
					VN	2.96	0.00155	PASS
					VH	0.90	0.00047	PASS
					VL	0.37	0.0002	PASS
					VN	1.29	0.0007	PASS
					VH	-0.72	-0.00039	PASS
			HCH	TN	VL	0.90	0.00048	PASS
					VN	0.21	0.00011	PASS
					VH	1.87	0.00099	PASS
					VL	3.85	0.00202	PASS
					VN	7.01	0.00368	PASS
					VH	1.10	0.00058	PASS
		10	LCH	TN	VL	-2.56	-0.00138	PASS
					VN	2.59	0.00139	PASS
					VH	-0.62	-0.00033	PASS
					VL	1.95	0.00104	PASS
					VN	-0.30	-0.00016	PASS
					VH	1.96	0.00104	PASS
			MCH	TN	VL	-1.19	-0.00063	PASS
					VN	0.63	0.00033	PASS
					VH	2.20	0.00116	PASS
					VL	-0.06	-0.00003	PASS
					VN	0.10	0.00005	PASS
					VH	1.23	0.00066	PASS
		HCH	TN	VL	2.15	0.00114	PASS	
				VN	0.26	0.00014	PASS	
				VH	-0.26	-0.00014	PASS	
				VL	0.03	0.00002	PASS	
				VN	0.17	0.00009	PASS	
				VH	0.99	0.00052	PASS	
		15	LCH	TN	VL	-0.06	-0.00003	PASS
					VN	0.10	0.00005	PASS
					VH	1.23	0.00066	PASS
					VL	2.15	0.00114	PASS
VN	0.26				0.00014	PASS		
VH	-0.26				-0.00014	PASS		
20	MCH	TN	VL	0.03	0.00002	PASS		
			VN	0.17	0.00009	PASS		
			VH	0.99	0.00052	PASS		
			VL	0.03	0.00002	PASS		
			VN	0.17	0.00009	PASS		
			VH	0.99	0.00052	PASS		
BAND4	LTE/TM1	5	LCH	TN	VL	1.34	0.00078	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					VN	1.85	0.00108	PASS		
					VH	0.62	0.00036	PASS		
					MCH	TN	VL	1.85	0.00107	PASS
							VN	1.53	0.00088	PASS
					VH	4.45	0.00257	PASS		
					HCH	TN	VL	3.26	0.00186	PASS
			VN	-0.11			-0.00006	PASS		
			VH	2.65			0.00151	PASS		
			10	LCH	TN	VL	2.07	0.00121	PASS	
						VN	1.56	0.00091	PASS	
						VH	-1.14	-0.00066	PASS	
				MCH	TN	VL	-0.07	-0.00004	PASS	
		VN				0.83	0.00048	PASS		
		VH				2.76	0.00159	PASS		
		HCH		TN	VL	-0.53	-0.0003	PASS		
					VN	1.14	0.00065	PASS		
					VH	0.30	0.00017	PASS		
		15		LCH	TN	VL	1.13	0.00066	PASS	
						VN	1.69	0.00098	PASS	
						VH	1.27	0.00074	PASS	
			MCH	TN	VL	4.18	0.00241	PASS		
					VN	-0.24	-0.00014	PASS		
					VH	4.29	0.00248	PASS		
			HCH	TN	VL	0.33	0.00019	PASS		
					VN	-0.57	-0.00033	PASS		
					VH	0.72	0.00041	PASS		
		20	LCH	TN	VL	3.56	0.00207	PASS		
					VN	2.66	0.00155	PASS		
					VH	1.59	0.00092	PASS		
			MCH	TN	VL	2.13	0.00123	PASS		
					VN	3.10	0.00179	PASS		
					VH	-0.13	-0.00008	PASS		
			HCH	TN	VL	2.22	0.00127	PASS		
					VN	-1.73	-0.00099	PASS		
					VH	1.87	0.00107	PASS		
		LTE/TM2	5	LCH	TN	VL	3.08	0.0018	PASS	
						VN	3.29	0.00192	PASS	
						VH	5.18	0.00302	PASS	
				MCH	TN	VL	6.44	0.00372	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					VN	1.22	0.0007	PASS		
					VH	5.36	0.00309	PASS		
			HCH	TN	VL	1.69	0.00096	PASS		
					VN	3.99	0.00228	PASS		
					VH	2.25	0.00128	PASS		
					VL	3.36	0.00196	PASS		
		10	LCH	TN	VN	3.46	0.00202	PASS		
					VH	-0.37	-0.00022	PASS		
					VL	2.27	0.00131	PASS		
			MCH	TN	VN	0.89	0.00051	PASS		
					VH	3.55	0.00205	PASS		
					VL	-2.03	-0.00116	PASS		
		HCH	TN	VN	0.82	0.00047	PASS			
				VH	4.01	0.00229	PASS			
				VL	2.29	0.00133	PASS			
				15	LCH	TN	VN	4.18	0.00243	PASS
							VH	1.30	0.00076	PASS
							VL	7.07	0.00408	PASS
		MCH	TN	VN	-3.65	-0.00211	PASS			
				VH	3.19	0.00184	PASS			
				VL	0.36	0.00021	PASS			
				HCH	TN	VN	1.20	0.00069	PASS	
						VH	4.01	0.00229	PASS	
						VL	0.09	0.00005	PASS	
		20	LCH	TN	VN	4.96	0.00288	PASS		
					VH	3.30	0.00192	PASS		
					VL	0.90	0.00052	PASS		
			MCH	TN	VN	4.41	0.00255	PASS		
					VH	2.60	0.0015	PASS		
					VL	0.46	0.00026	PASS		
HCH	TN		VN	0.19	0.00011	PASS				
			VH	-0.23	-0.00013	PASS				
			VL	2.29	0.00277	PASS				
BAND5	LTE/TM1	5	LCH	TN	VN	3.50	0.00423	PASS		
					VH	4.66	0.00564	PASS		
					VL	0.83	0.00099	PASS		
			MCH	TN	VN	2.43	0.0029	PASS		
					VH	3.43	0.0041	PASS		
					VL	3.22	0.0038	PASS		
			HCH	TN	VL	3.22	0.0038	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
		10	LCH	TN	VN	4.99	0.00589	PASS	
					VH	1.87	0.00221	PASS	
					VL	1.36	0.00164	PASS	
			MCH	TN	VN	-8.10	-0.00977	PASS	
					VH	4.05	0.00489	PASS	
					VL	4.21	0.00503	PASS	
		HCH	TN	VN	2.69	0.00322	PASS		
				VH	4.18	0.005	PASS		
				VL	2.75	0.00326	PASS		
		LTE/TM2	5	LCH	TN	VL	2.29	0.00277	PASS
						VN	1.60	0.00194	PASS
						VH	1.95	0.00236	PASS
				MCH	TN	VL	3.52	0.00421	PASS
						VN	1.82	0.00218	PASS
						VH	1.56	0.00186	PASS
			HCH	TN	VL	2.23	0.00263	PASS	
					VN	4.92	0.00581	PASS	
					VH	2.27	0.00268	PASS	
	10		LCH	TN	VL	1.16	0.0014	PASS	
					VN	4.26	0.00514	PASS	
					VH	0.23	0.00028	PASS	
			MCH	TN	VL	0.94	0.00112	PASS	
					VN	0.51	0.00061	PASS	
					VH	1.92	0.0023	PASS	
	HCH		TN	VL	0.59	0.0007	PASS		
				VN	4.51	0.00534	PASS		
				VH	4.38	0.00519	PASS		
	BAND7	LTE/TM1	5	LCH	TN	VL	3.45	0.00138	PASS
						VN	1.30	0.00052	PASS
						VH	0.20	0.00008	PASS
				MCH	TN	VL	0.66	0.00026	PASS
						VN	2.02	0.0008	PASS
						VH	2.95	0.00116	PASS
			HCH	TN	VL	4.11	0.0016	PASS	
					VN	2.40	0.00093	PASS	
					VH	1.49	0.00058	PASS	
10			LCH	TN	VL	5.55	0.00222	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					VN	-0.11	-0.00004	PASS			
					VH	2.68	0.00107	PASS			
					MCH	TN	VL	1.07	0.00042	PASS	
							VN	2.85	0.00112	PASS	
					VH		VN	-0.56	-0.00022	PASS	
							VH	-0.56	-0.00022	PASS	
			HCH	TN	VL	-1.83	-0.00071	PASS			
					VN	13.96	0.00544	PASS			
					VH	-1.40	-0.00055	PASS			
					15	LCH	TN	VL	0.53	0.00021	PASS
								VN	-0.39	-0.00016	PASS
								VH	0.31	0.00012	PASS
		MCH	TN	VL	0.66	0.00026	PASS				
				VN	-0.84	-0.00033	PASS				
				VH	0.16	0.00006	PASS				
				HCH	TN	VL	0.94	0.00037	PASS		
						VN	-1.09	-0.00043	PASS		
						VH	8.61	0.00336	PASS		
		20	LCH			TN	VL	-0.34	-0.00014	PASS	
							VN	2.98	0.00119	PASS	
							VH	0.84	0.00033	PASS	
				MCH	TN		VL	-0.03	-0.00001	PASS	
							VN	-2.40	-0.00095	PASS	
							VH	2.59	0.00102	PASS	
		HCH	TN			VL	3.20	0.00125	PASS		
						VN	1.97	0.00077	PASS		
						VH	1.22	0.00048	PASS		
				LTE/TM2	5	LCH	TN	VL	5.32	0.00213	PASS
								VN	2.00	0.0008	PASS
								VH	6.84	0.00273	PASS
		MCH	TN			VL	1.40	0.00055	PASS		
						VN	6.74	0.00266	PASS		
						VH	4.52	0.00178	PASS		
		HCH	TN			VL	3.39	0.00132	PASS		
						VN	1.16	0.00045	PASS		
						VH	6.48	0.00252	PASS		
		10	LCH	TN	VL	4.01	0.0016	PASS			
					VN	0.62	0.00025	PASS			
					VH	2.83	0.00113	PASS			
					MCH	TN	VL	3.36	0.00133	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					VN	-2.26	-0.00089	PASS	
					VH	1.39	0.00055	PASS	
			HCH	TN	VL	5.82	0.00227	PASS	
					VN	0.04	0.00002	PASS	
					VH	2.03	0.00079	PASS	
					VL	-0.11	-0.00004	PASS	
		LCH	TN	VN	3.62	0.00144	PASS		
				VH	-3.89	-0.00155	PASS		
				VL	-1.62	-0.00064	PASS		
		MCH	TN	VN	4.91	0.00194	PASS		
				VH	-4.56	-0.0018	PASS		
				HCH	TN	VL	0.64	0.00025	PASS
						VN	-0.20	-0.00008	PASS
		VH	-8.28			-0.00323	PASS		
		20	LCH	TN	VL	1.53	0.00061	PASS	
					VN	4.42	0.00176	PASS	
					VH	3.39	0.00135	PASS	
			MCH	TN	VL	4.96	0.00196	PASS	
					VN	2.88	0.00114	PASS	
					VH	2.83	0.00112	PASS	
			HCH	TN	VL	1.65	0.00064	PASS	
VN	2.60				0.00102	PASS			
VH	4.29				0.00168	PASS			

### 8.3.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND2	LTE/TM1	5	LCH	VN	-30	2.52	0.00136	PASS
					-20	3.65	0.00197	PASS
					-10	4.48	0.00242	PASS
					0	2.79	0.00151	PASS
					10	4.78	0.00258	PASS
					20	1.83	0.00099	PASS
					30	1.93	0.00104	PASS
					40	2.93	0.00158	PASS
					50	1.04	0.00056	PASS
			MCH	VN	-30	-0.19	-0.0001	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-20	4.63	0.00246	PASS		
					-10	2.95	0.00157	PASS		
					0	5.85	0.00311	PASS		
					10	4.56	0.00243	PASS		
					20	2.49	0.00132	PASS		
					30	3.93	0.00209	PASS		
					40	2.06	0.0011	PASS		
					50	0.43	0.00023	PASS		
			HCH	VN	-30	2.20	0.00115	PASS		
					-20	2.19	0.00115	PASS		
					-10	3.50	0.00183	PASS		
					0	3.72	0.00195	PASS		
					10	2.95	0.00155	PASS		
					20	1.86	0.00098	PASS		
					30	-0.29	-0.00015	PASS		
					40	1.16	0.00061	PASS		
			LCH	VN	-30	1.09	0.00059	PASS		
					-20	2.69	0.00145	PASS		
					-10	0.63	0.00034	PASS		
					0	2.60	0.0014	PASS		
		10			1.13	0.00061	PASS			
		20			2.06	0.00111	PASS			
		30			1.63	0.00088	PASS			
		40			2.36	0.00127	PASS			
		MCH	VN	-30	3.30	0.00176	PASS			
				-20	3.62	0.00193	PASS			
				-10	-0.96	-0.00051	PASS			
				0	-1.56	-0.00083	PASS			
				10	-1.13	-0.0006	PASS			
				20	-0.07	-0.00004	PASS			
				30	-0.59	-0.00031	PASS			
				40	-1.70	-0.0009	PASS			
		HCH	VN	-30	4.85	0.00255	PASS			
				-20	7.77	0.00408	PASS			
				-10	-1.29	-0.00068	PASS			
				0	0.82	0.00043	PASS			
		10					-30	1.09	0.00059	PASS
							-20	2.69	0.00145	PASS
							-10	0.63	0.00034	PASS
							0	2.60	0.0014	PASS
10	1.13						0.00061	PASS		
20	2.06						0.00111	PASS		
30	1.63						0.00088	PASS		
40	2.36						0.00127	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					10	2.52	0.00132	PASS			
					20	5.04	0.00265	PASS			
					30	3.69	0.00194	PASS			
					40	-1.69	-0.00089	PASS			
					50	-0.43	-0.00023	PASS			
					15	LCH	VN	-30	-1.23	-0.00066	PASS
								-20	-1.33	-0.00072	PASS
								-10	-0.13	-0.00007	PASS
								0	4.55	0.00245	PASS
								10	-1.83	-0.00099	PASS
		20	-0.83	-0.00045				PASS			
		30	0.72	0.00039				PASS			
		40	0.80	0.00043				PASS			
		50	3.96	0.00213				PASS			
		15	MCH	VN				-30	2.23	0.00119	PASS
					-20	0.54	0.00029	PASS			
					-10	0.27	0.00014	PASS			
					0	-0.09	-0.00005	PASS			
					10	1.00	0.00053	PASS			
					20	2.59	0.00138	PASS			
					30	1.34	0.00071	PASS			
					40	-0.86	-0.00046	PASS			
					50	-2.09	-0.00111	PASS			
					15	HCH	VN	-30	2.49	0.00131	PASS
		-20	-0.93	-0.00049				PASS			
		-10	-0.40	-0.00021				PASS			
		0	2.02	0.00106				PASS			
		10	2.85	0.0015				PASS			
		20	-0.57	-0.0003				PASS			
		30	0.34	0.00018				PASS			
		40	0.29	0.00015				PASS			
		50	-0.67	-0.00035				PASS			
		20	LCH	VN				-30	1.04	0.00056	PASS
-20	0.06				0.00003	PASS					
-10	-1.27				-0.00068	PASS					
0	-0.90				-0.00048	PASS					
10	-0.37				-0.0002	PASS					
20	4.62				0.00248	PASS					
30	1.59				0.00085	PASS					

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	1.67	0.0009	PASS
					50	2.37	0.00127	PASS
			MCH	VN	-30	-0.96	-0.00051	PASS
					-20	1.83	0.00097	PASS
					-10	2.07	0.0011	PASS
					0	-0.10	-0.00005	PASS
					10	-0.80	-0.00043	PASS
					20	1.12	0.0006	PASS
					30	1.52	0.00081	PASS
					40	0.44	0.00023	PASS
					50	-2.90	-0.00154	PASS
					HCH	VN	-30	0.09
			-20	-3.55			-0.00187	PASS
			-10	-0.10			-0.00005	PASS
			0	-1.92			-0.00101	PASS
			10	1.52			0.0008	PASS
	20	-0.63	-0.00033	PASS				
	30	0.10	0.00005	PASS				
	40	-1.43	-0.00075	PASS				
	LTE/TM2	5	LCH	VN	-30	1.59	0.00086	PASS
					-20	0.76	0.00041	PASS
					-10	5.71	0.00308	PASS
					0	3.53	0.00191	PASS
					10	3.92	0.00212	PASS
					20	4.18	0.00226	PASS
					30	4.06	0.00219	PASS
					40	3.40	0.00184	PASS
			50	5.42	0.00293	PASS		
			MCH	VN	-30	0.76	0.0004	PASS
					-20	2.57	0.00137	PASS
					-10	2.02	0.00107	PASS
					0	0.49	0.00026	PASS
10					1.79	0.00095	PASS	
20					2.33	0.00124	PASS	
30					-0.31	-0.00016	PASS	
40	2.89	0.00154			PASS			
50	4.82	0.00256	PASS					
HCH	VN	-30	2.92	0.00153	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	1.52	0.0008	PASS
					-10	2.66	0.00139	PASS
					0	7.67	0.00402	PASS
					10	2.33	0.00122	PASS
					20	1.32	0.00069	PASS
					30	3.88	0.00203	PASS
					40	5.25	0.00275	PASS
					50	1.80	0.00094	PASS
		10	LCH	VN	-30	3.05	0.00164	PASS
					-20	1.17	0.00063	PASS
					-10	1.13	0.00061	PASS
					0	0.82	0.00044	PASS
					10	0.54	0.00029	PASS
					20	1.73	0.00093	PASS
					30	0.37	0.0002	PASS
					40	-0.73	-0.00039	PASS
			MCH	VN	-30	0.73	0.00039	PASS
					-20	-0.11	-0.00006	PASS
					-10	3.39	0.0018	PASS
					0	4.15	0.00221	PASS
					10	-0.49	-0.00026	PASS
					20	4.96	0.00264	PASS
					30	1.56	0.00083	PASS
					40	0.97	0.00052	PASS
			HCH	VN	-30	3.03	0.00159	PASS
					-20	1.52	0.0008	PASS
					-10	3.22	0.00169	PASS
					0	3.46	0.00182	PASS
					10	4.03	0.00212	PASS
					20	1.44	0.00076	PASS
					30	1.27	0.00067	PASS
					40	3.78	0.00198	PASS
		15	LCH	VN	-30	0.90	0.00048	PASS
					-20	0.93	0.0005	PASS
					-10	0.80	0.00043	PASS
					0	0.83	0.00045	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
		20			10	-2.25	-0.00121	PASS	
					20	1.39	0.00075	PASS	
					30	0.84	0.00045	PASS	
					40	0.94	0.00051	PASS	
					50	0.19	0.0001	PASS	
			MCH	VN	-30	-0.29	-0.00015	PASS	
					-20	0.87	0.00046	PASS	
					-10	-0.50	-0.00027	PASS	
					0	-2.16	-0.00115	PASS	
					10	0.20	0.00011	PASS	
					20	-1.37	-0.00073	PASS	
					30	0.84	0.00045	PASS	
					40	1.60	0.00085	PASS	
					50	1.07	0.00057	PASS	
			HCH	VN	-30	0.26	0.00014	PASS	
					-20	-1.22	-0.00064	PASS	
					-10	-0.17	-0.00009	PASS	
					0	2.80	0.00147	PASS	
					10	2.25	0.00118	PASS	
					20	3.10	0.00163	PASS	
					30	-2.35	-0.00124	PASS	
					40	-0.80	-0.00042	PASS	
			50	0.34	0.00018	PASS			
			LCH	VN	-30	4.23	0.00227	PASS	
		-20			-1.19	-0.00064	PASS		
		-10			2.09	0.00112	PASS		
		0			2.20	0.00118	PASS		
		10			1.47	0.00079	PASS		
		20			2.59	0.00139	PASS		
		30			2.39	0.00128	PASS		
		40			1.42	0.00076	PASS		
		50			-0.57	-0.00031	PASS		
		MCH			VN	-30	1.34	0.00071	PASS
						-20	1.39	0.00074	PASS
						-10	2.30	0.00122	PASS
			0	-1.24		-0.00066	PASS		
10	1.32		0.0007	PASS					
20	0.79		0.00042	PASS					
30	1.09		0.00058	PASS					

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					40	3.30	0.00176	PASS	
					50	0.01	0.00001	PASS	
			HCH	VN	-30	2.59	0.00136	PASS	
					-20	1.09	0.00057	PASS	
					-10	-0.93	-0.00049	PASS	
					0	1.00	0.00053	PASS	
					10	0.62	0.00033	PASS	
					20	3.26	0.00172	PASS	
					30	-1.60	-0.00084	PASS	
					40	2.63	0.00138	PASS	
50	-1.77	-0.00093	PASS						
BAND4	LTE/TM1	5	LCH	VN	-30	2.05	0.0012	PASS	
					-20	3.62	0.00211	PASS	
					-10	0.94	0.00055	PASS	
					0	3.78	0.00221	PASS	
					10	3.16	0.00185	PASS	
					20	2.16	0.00126	PASS	
					30	3.06	0.00179	PASS	
			40		-0.62	-0.00036	PASS		
			50		0.94	0.00055	PASS		
			MCH		VN	-30	3.81	0.0022	PASS
						-20	-0.56	-0.00032	PASS
						-10	0.86	0.0005	PASS
						0	4.89	0.00282	PASS
						10	1.77	0.00102	PASS
		20		1.20		0.00069	PASS		
		30		3.66		0.00211	PASS		
		40	3.50	0.00202	PASS				
		50	3.73	0.00215	PASS				
		HCH	VN	-30	0.19	0.00011	PASS		
				-20	0.57	0.00033	PASS		
				-10	1.52	0.00087	PASS		
				0	1.39	0.00079	PASS		
				10	1.24	0.00071	PASS		
				20	3.12	0.00178	PASS		
				30	4.65	0.00265	PASS		
		40	-0.26	-0.00015	PASS				
		50	3.72	0.00212	PASS				
		10	LCH	VN	-30	2.73	0.00159	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					-20	0.41	0.00024	PASS	
					-10	-0.51	-0.0003	PASS	
					0	0.76	0.00044	PASS	
					10	4.03	0.00235	PASS	
					20	-2.89	-0.00169	PASS	
					30	1.26	0.00073	PASS	
					40	-2.56	-0.00149	PASS	
					50	0.86	0.0005	PASS	
			MCH	VN	-30	1.00	0.00058	PASS	
					-20	0.77	0.00044	PASS	
					-10	3.78	0.00218	PASS	
					0	-0.11	-0.00006	PASS	
					10	-1.99	-0.00115	PASS	
					20	0.80	0.00046	PASS	
					30	3.86	0.00223	PASS	
					40	-0.72	-0.00042	PASS	
			HCH	VN	-30	1.04	0.00059	PASS	
					-20	-0.29	-0.00017	PASS	
					-10	0.94	0.00054	PASS	
					0	1.34	0.00077	PASS	
					10	2.85	0.00163	PASS	
					20	0.69	0.00039	PASS	
					30	1.27	0.00073	PASS	
					40	1.43	0.00082	PASS	
			15	LCH	VN	-30	4.42	0.00257	PASS
						-20	3.49	0.00203	PASS
						-10	0.36	0.00021	PASS
						0	0.01	0.00001	PASS
		10				0.19	0.00011	PASS	
		20				2.89	0.00168	PASS	
		30				2.45	0.00143	PASS	
		40				-0.10	-0.00006	PASS	
		50		-1.85	-0.00108	PASS			
		MCH		VN	-30	-0.04	-0.00002	PASS	
					-20	1.46	0.00084	PASS	
					-10	1.90	0.0011	PASS	
			0		0.54	0.00031	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					10	-2.79	-0.00161	PASS		
					20	1.83	0.00106	PASS		
					30	2.46	0.00142	PASS		
					40	0.23	0.00013	PASS		
					50	1.63	0.00094	PASS		
			HCH	VN	-30	2.26	0.00129	PASS		
					-20	2.46	0.00141	PASS		
					-10	-0.14	-0.00008	PASS		
					0	-0.90	-0.00052	PASS		
					10	-0.82	-0.00047	PASS		
					20	2.70	0.00155	PASS		
					30	-0.40	-0.00023	PASS		
			LCH	VN	40	2.72	0.00156	PASS		
					50	-1.83	-0.00105	PASS		
					-30	2.89	0.00168	PASS		
					-20	1.80	0.00105	PASS		
					-10	-1.12	-0.00065	PASS		
					0	-0.04	-0.00002	PASS		
		10			-0.04	-0.00002	PASS			
		MCH	VN	20	-0.46	-0.00027	PASS			
				30	-2.85	-0.00166	PASS			
				40	3.06	0.00178	PASS			
				50	0.56	0.00033	PASS			
				-30	2.80	0.00162	PASS			
				-20	0.63	0.00036	PASS			
				-10	0.06	0.00003	PASS			
				0	-0.69	-0.0004	PASS			
				10	1.76	0.00102	PASS			
				20	1.43	0.00083	PASS			
		HCH	VN	30	2.26	0.0013	PASS			
				40	-0.29	-0.00017	PASS			
				50	-0.43	-0.00025	PASS			
				-30	0.69	0.0004	PASS			
				-20	0.82	0.00047	PASS			
				-10	0.94	0.00054	PASS			
				0	3.81	0.00218	PASS			
							10	3.49	0.002	PASS
							20	3.13	0.00179	PASS
							30	0.87	0.0005	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	5	LCH	VN	40	-1.37	-0.00079	PASS
					50	0.17	0.0001	PASS
					-30	2.23	0.0013	PASS
					-20	6.75	0.00394	PASS
					-10	3.08	0.0018	PASS
					0	0.64	0.00037	PASS
					10	0.69	0.0004	PASS
					20	3.39	0.00198	PASS
					30	2.43	0.00142	PASS
			40	2.15	0.00126	PASS		
			50	3.29	0.00192	PASS		
			MCH	VN	-30	1.43	0.00083	PASS
					-20	2.95	0.0017	PASS
					-10	4.68	0.0027	PASS
					0	3.29	0.0019	PASS
					10	3.65	0.00211	PASS
					20	2.20	0.00127	PASS
					30	4.95	0.00286	PASS
		40			1.53	0.00088	PASS	
		50			3.93	0.00227	PASS	
		HCH	VN	-30	2.12	0.00121	PASS	
				-20	2.40	0.00137	PASS	
				-10	3.82	0.00218	PASS	
				0	0.64	0.00037	PASS	
				10	1.82	0.00104	PASS	
				20	5.97	0.00341	PASS	
				30	4.63	0.00264	PASS	
				40	2.33	0.00133	PASS	
				50	3.63	0.00207	PASS	
		10	LCH	VN	-30	-0.66	-0.00038	PASS
					-20	-1.57	-0.00092	PASS
					-10	-1.73	-0.00101	PASS
0	-0.96				-0.00056	PASS		
10	2.27				0.00132	PASS		
20	3.08				0.0018	PASS		
30	0.37				0.00022	PASS		
40	0.77				0.00045	PASS		
50	0.50				0.00029	PASS		
MCH	VN				-30	-0.54	-0.00031	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-20	3.45	0.00199	PASS		
					-10	0.40	0.00023	PASS		
					0	0.40	0.00023	PASS		
					10	1.52	0.00088	PASS		
					20	4.29	0.00248	PASS		
					30	3.02	0.00174	PASS		
					40	0.11	0.00006	PASS		
					50	2.12	0.00122	PASS		
			HCH	VN	-30	3.99	0.00228	PASS		
					-20	5.15	0.00294	PASS		
					-10	1.39	0.00079	PASS		
					0	1.50	0.00086	PASS		
					10	5.85	0.00334	PASS		
					20	2.80	0.0016	PASS		
					30	1.39	0.00079	PASS		
					40	0.82	0.00047	PASS		
			LCH	VN	-30	1.72	0.001	PASS		
					-20	0.07	0.00004	PASS		
					-10	2.35	0.00137	PASS		
					0	2.93	0.00171	PASS		
		10			2.80	0.00163	PASS			
		20			2.85	0.00166	PASS			
		30			3.29	0.00192	PASS			
		40			0.73	0.00043	PASS			
		MCH	VN	-30	2.23	0.00129	PASS			
				-20	1.22	0.0007	PASS			
				-10	1.39	0.0008	PASS			
				0	-0.29	-0.00017	PASS			
				10	3.32	0.00192	PASS			
				20	0.10	0.00006	PASS			
				30	1.70	0.00098	PASS			
				40	2.53	0.00146	PASS			
		HCH	VN	-30	1.76	0.00101	PASS			
				-20	-1.03	-0.00059	PASS			
				-10	-2.53	-0.00145	PASS			
				0	-1.97	-0.00113	PASS			
		15					-30	2.23	0.00129	PASS
							-20	1.22	0.0007	PASS
							-10	1.39	0.0008	PASS
							0	-0.29	-0.00017	PASS
10	3.32						0.00192	PASS		
20	0.10						0.00006	PASS		
30	1.70						0.00098	PASS		
40	2.53						0.00146	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					10	-3.50	-0.002	PASS			
					20	0.87	0.0005	PASS			
					30	0.39	0.00022	PASS			
					40	0.09	0.00005	PASS			
					50	0.01	0.00001	PASS			
				20	LCH	VN	-30	2.55	0.00148	PASS	
							-20	0.14	0.00008	PASS	
							-10	1.24	0.00072	PASS	
							0	-0.44	-0.00026	PASS	
							10	0.77	0.00045	PASS	
							20	2.57	0.00149	PASS	
							30	1.62	0.00094	PASS	
							40	0.72	0.00042	PASS	
							50	2.85	0.00166	PASS	
							MCH	VN	-30	1.73	0.001
					-20	0.77			0.00044	PASS	
					-10	4.59			0.00265	PASS	
					0	0.51			0.00029	PASS	
					10	-0.04			-0.00002	PASS	
					20	0.43			0.00025	PASS	
					30	1.39			0.0008	PASS	
					40	1.16			0.00067	PASS	
					50	1.82			0.00105	PASS	
					HCH	VN			-30	1.87	0.00107
							-20	-0.29	-0.00017	PASS	
							-10	-0.19	-0.00011	PASS	
							0	-1.02	-0.00058	PASS	
							10	0.60	0.00034	PASS	
20	-0.20						-0.00011	PASS			
30	0.74						0.00042	PASS			
40	-0.20						-0.00011	PASS			
BAND5	LTE/TM1				5	LCH	VN	-30	2.47	0.00299	PASS
								-20	2.78	0.00336	PASS
		-10	1.52	0.00184				PASS			
		0	4.58	0.00554				PASS			
		10	2.06	0.00249				PASS			
		20	-2.26	-0.00273				PASS			
		30	4.28	0.00518				PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	2.83	0.00342	PASS
					50	3.82	0.00462	PASS
			MCH	VN	-30	1.44	0.00172	PASS
					-20	3.05	0.00365	PASS
					-10	4.21	0.00503	PASS
					0	1.83	0.00219	PASS
					10	3.22	0.00385	PASS
					20	2.80	0.00335	PASS
					30	2.92	0.00349	PASS
					40	4.08	0.00488	PASS
					50	3.12	0.00373	PASS
					HCH	VN	-30	3.13
			-20	3.36			0.00397	PASS
			-10	3.42			0.00404	PASS
			0	2.62			0.0031	PASS
			10	1.24			0.00146	PASS
			20	3.29			0.00389	PASS
			30	4.92			0.00581	PASS
			40	2.73			0.00323	PASS
			10	LCH	VN	-30	2.62	0.00316
		-20				0.44	0.00053	PASS
		-10				3.16	0.00381	PASS
		0				2.00	0.00241	PASS
		10				0.39	0.00047	PASS
		20				2.96	0.00357	PASS
		30				3.88	0.00468	PASS
		40				2.02	0.00244	PASS
		50				3.10	0.00374	PASS
		MCH				VN	-30	1.83
				-20	-2.63		-0.00314	PASS
				-10	1.32		0.00158	PASS
				0	0.82		0.00098	PASS
				10	4.95		0.00592	PASS
				20	0.59		0.00071	PASS
				30	-0.39		-0.00047	PASS
				40	0.90		0.00108	PASS
		HCH		VN	-30	-1.17	-0.00139	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-20	2.47	0.00293	PASS		
					-10	1.83	0.00217	PASS		
					0	3.91	0.00463	PASS		
					10	3.18	0.00377	PASS		
					20	2.59	0.00307	PASS		
					30	-0.96	-0.00114	PASS		
					40	2.13	0.00252	PASS		
					50	7.78	0.00922	PASS		
	LTE/TM2	5	LCH	VN	-30	2.32	0.00281	PASS		
					-20	3.79	0.00459	PASS		
					-10	2.59	0.00313	PASS		
					0	5.42	0.00656	PASS		
					10	5.48	0.00663	PASS		
					20	2.10	0.00254	PASS		
					30	2.37	0.00287	PASS		
					40	1.57	0.0019	PASS		
					50	0.87	0.00105	PASS		
					MCH	VN	-30	3.29	0.00393	PASS
							-20	3.85	0.0046	PASS
							-10	2.79	0.00334	PASS
							0	3.38	0.00404	PASS
							10	4.73	0.00565	PASS
							20	3.35	0.004	PASS
							30	0.80	0.00096	PASS
			40	3.39			0.00405	PASS		
			HCH	VN	-30	3.59	0.00424	PASS		
					-20	3.60	0.00425	PASS		
					-10	2.53	0.00299	PASS		
					0	3.38	0.00399	PASS		
					10	4.21	0.00497	PASS		
					20	3.32	0.00392	PASS		
					30	3.10	0.00366	PASS		
					40	5.56	0.00657	PASS		
			10	LCH	VN	-30	1.27	0.00153	PASS	
						-20	1.96	0.00236	PASS	
						-10	2.83	0.00341	PASS	
0	1.95	0.00235				PASS				

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					10	-1.96	-0.00236	PASS			
					20	1.66	0.002	PASS			
					30	2.09	0.00252	PASS			
					40	10.39	.01253	PASS			
					50	0.92	0.00111	PASS			
			MCH	VN	-30	1.52	0.00182	PASS			
					-20	2.82	0.00337	PASS			
					-10	0.14	0.00017	PASS			
					0	2.26	0.0027	PASS			
					10	2.59	0.0031	PASS			
					20	1.83	0.00219	PASS			
					30	1.33	0.00159	PASS			
					40	2.39	0.00286	PASS			
			HCH	VN	50	1.65	0.00197	PASS			
					-30	1.89	0.00224	PASS			
					-20	4.06	0.00481	PASS			
					-10	2.43	0.00288	PASS			
					0	2.86	0.00339	PASS			
					10	3.28	0.00389	PASS			
					20	2.07	0.00245	PASS			
					30	2.99	0.00354	PASS			
			BAND7	LTE/TM1	5	LCH	VN	40	1.62	0.00192	PASS
								50	-1.20	-0.00142	PASS
								-30	3.68	0.00147	PASS
								-20	-0.53	-0.00021	PASS
								-10	4.13	0.00165	PASS
								0	1.97	0.00079	PASS
								10	2.29	0.00092	PASS
20	1.37	0.00055						PASS			
30	4.12	0.00165				PASS					
40	2.33	0.00093				PASS					
50	1.34	0.00054				PASS					
MCH	VN	-30				5.75	0.00227	PASS			
		-20				0.11	0.00004	PASS			
		-10				2.09	0.00082	PASS			
		0				-0.21	-0.00008	PASS			
		10	2.46	0.00097	PASS						
		20	2.66	0.00105	PASS						
		30	1.59	0.00063	PASS						

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	1.46	0.00058	PASS
					50	-1.96	-0.00077	PASS
			HCH	VN	-30	7.50	0.00292	PASS
					-20	0.74	0.00029	PASS
					-10	4.66	0.00181	PASS
					0	2.19	0.00085	PASS
					10	3.38	0.00132	PASS
					20	5.69	0.00222	PASS
					30	-0.51	-0.0002	PASS
					40	2.43	0.00095	PASS
		50	2.05	0.0008	PASS			
		10	LCH	VN	-30	0.49	0.0002	PASS
					-20	-1.03	-0.00041	PASS
					-10	4.13	0.00165	PASS
					0	2.36	0.00094	PASS
					10	9.26	0.0037	PASS
					20	-0.49	-0.0002	PASS
					30	3.79	0.00151	PASS
					40	6.77	0.0027	PASS
			50	0.82	0.00033	PASS		
			MCH	VN	-30	-1.02	-0.0004	PASS
					-20	1.60	0.00063	PASS
					-10	-1.79	-0.00071	PASS
					0	1.09	0.00043	PASS
					10	0.63	0.00025	PASS
					20	5.94	0.00234	PASS
					30	-2.39	-0.00094	PASS
					40	3.30	0.0013	PASS
			50	-1.89	-0.00075	PASS		
		HCH	VN	-30	-1.72	-0.00067	PASS	
				-20	1.24	0.00048	PASS	
				-10	5.15	0.00201	PASS	
				0	2.25	0.00088	PASS	
				10	0.14	0.00005	PASS	
				20	-0.96	-0.00037	PASS	
				30	7.78	0.00303	PASS	
				40	0.87	0.00034	PASS	
		50	2.19	0.00085	PASS			
		15	LCH	VN	-30	-0.17	-0.00007	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
		20			-20	1.75	0.0007	PASS		
					-10	2.45	0.00098	PASS		
					0	1.03	0.00041	PASS		
					10	0.06	0.00002	PASS		
					20	0.60	0.00024	PASS		
					30	-1.77	-0.00071	PASS		
					40	2.17	0.00087	PASS		
					50	-1.30	-0.00052	PASS		
			MCH	VN	-30	-1.33	-0.00052	PASS		
					-20	0.57	0.00022	PASS		
					-10	0.59	0.00023	PASS		
					0	3.39	0.00134	PASS		
					10	2.02	0.0008	PASS		
					20	2.79	0.0011	PASS		
					30	0.31	0.00012	PASS		
					40	-1.49	-0.00059	PASS		
			HCH	VN	-30	-1.07	-0.00042	PASS		
					-20	1.00	0.00039	PASS		
					-10	2.22	0.00087	PASS		
					0	2.30	0.0009	PASS		
					10	0.03	0.00001	PASS		
					20	2.69	0.00105	PASS		
					30	5.46	0.00213	PASS		
					40	1.54	0.0006	PASS		
			20	LCH	VN	-30	1.46	0.00058	PASS	
						-20	1.26	0.0005	PASS	
						-10	1.47	0.00059	PASS	
						0	1.02	0.00041	PASS	
		10				2.60	0.00104	PASS		
		20				1.03	0.00041	PASS		
		30				4.52	0.0018	PASS		
		40				0.59	0.00024	PASS		
		50				1.70	0.00068	PASS		
		MCH				VN	-30	-1.23	-0.00049	PASS
							-20	2.25	0.00089	PASS
							-10	0.94	0.00037	PASS
			0	2.56	0.00101		PASS			

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					10	1.92	0.00076	PASS			
					20	2.68	0.00106	PASS			
					30	-0.24	-0.00009	PASS			
					40	3.28	0.00129	PASS			
					50	1.24	0.00049	PASS			
			HCH	VN				-30	-0.09	-0.00004	PASS
								-20	1.57	0.00061	PASS
								-10	-1.52	-0.00059	PASS
								0	10.61	0.00414	PASS
								10	5.11	0.002	PASS
								20	3.43	0.00134	PASS
								30	-1.99	-0.00078	PASS
								40	3.98	0.00155	PASS
								50	1.02	0.0004	PASS
								LCH	VN		
			-20	2.62	0.00105	PASS					
			-10	2.06	0.00082	PASS					
			0	1.56	0.00062	PASS					
			10	3.18	0.00127	PASS					
			20	1.87	0.00075	PASS					
	30	-0.76	-0.0003	PASS							
	40	5.59	0.00223	PASS							
	50	2.23	0.00089	PASS							
	MCH	VN				-30	1.87				
						-20	1.36	0.00054	PASS		
						-10	5.12	0.00202	PASS		
						0	4.18	0.00165	PASS		
						10	2.05	0.00081	PASS		
						20	5.01	0.00198	PASS		
						30	0.34	0.00013	PASS		
						40	4.22	0.00166	PASS		
						50	3.71	0.00146	PASS		
						HCH	VN				-30
	-20	2.16	0.00084	PASS							
	-10	4.03	0.00157	PASS							
	0	7.70	0.003	PASS							
	10	2.22	0.00086	PASS							
	20	2.52	0.00098	PASS							
	30	1.09	0.00042	PASS							

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	0.34	0.00013	PASS
					50	7.62	0.00297	PASS
		10	LCH	VN	-30	3.48	0.00139	PASS
					-20	4.45	0.00178	PASS
					-10	5.25	0.0021	PASS
					0	1.70	0.00068	PASS
					10	1.59	0.00063	PASS
					20	3.96	0.00158	PASS
					30	-1.24	-0.0005	PASS
					40	2.10	0.00084	PASS
					50	-1.30	-0.00052	PASS
			MCH	VN	-30	0.67	0.00026	PASS
					-20	3.63	0.00143	PASS
					-10	1.79	0.00071	PASS
					0	2.37	0.00093	PASS
					10	1.49	0.00059	PASS
					20	5.61	0.00221	PASS
					30	-0.63	-0.00025	PASS
					40	-1.03	-0.00041	PASS
					50	1.33	0.00052	PASS
		HCH	VN	-30	-0.76	-0.0003	PASS	
				-20	-0.51	-0.0002	PASS	
				-10	3.53	0.00138	PASS	
				0	2.22	0.00087	PASS	
				10	5.09	0.00198	PASS	
				20	4.21	0.00164	PASS	
				30	-0.90	-0.00035	PASS	
				40	2.50	0.00097	PASS	
				50	1.79	0.0007	PASS	
		15	LCH	VN	-30	-0.51	-0.0002	PASS
					-20	-0.17	-0.00007	PASS
					-10	1.07	0.00043	PASS
					0	2.86	0.00114	PASS
					10	-1.39	-0.00055	PASS
					20	2.02	0.00081	PASS
					30	-0.93	-0.00037	PASS
					40	0.39	0.00016	PASS
					50	0.51	0.0002	PASS
			MCH	VN	-30	-2.92	-0.00115	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		20			-20	2.37	0.00093	PASS
					-10	1.24	0.00049	PASS
					0	1.76	0.00069	PASS
					10	3.30	0.0013	PASS
					20	-0.01	0	PASS
					30	-1.17	-0.00046	PASS
					40	2.66	0.00105	PASS
					50	6.71	0.00265	PASS
			HCH	VN	-30	-10.00	-0.00039	PASS
					-20	-1.23	-0.00048	PASS
					-10	3.25	0.00127	PASS
					0	0.04	0.00002	PASS
					10	-1.67	-0.00065	PASS
					20	3.78	0.00148	PASS
					30	-0.36	-0.00014	PASS
					40	4.94	0.00193	PASS
			LCH	VN	-30	1.79	0.00071	PASS
					-20	4.31	0.00172	PASS
					-10	1.09	0.00043	PASS
					0	1.79	0.00071	PASS
					10	2.29	0.00091	PASS
					20	1.87	0.00075	PASS
					30	0.23	0.00009	PASS
					40	4.18	0.00167	PASS
			MCH	VN	-30	1.79	0.00071	PASS
					-20	-1.75	-0.00069	PASS
					-10	2.26	0.00089	PASS
					0	0.57	0.00022	PASS
		10			3.23	0.00127	PASS	
		20			2.83	0.00112	PASS	
		30			1.07	0.00042	PASS	
		40			-0.70	-0.00028	PASS	
		HCH	VN	-30	-0.70	-0.00027	PASS	
				-20	4.62	0.0018	PASS	
				-10	0.19	0.00007	PASS	
				0	3.26	0.00127	PASS	



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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-1.40	-0.00055	PASS
					20	-2.70	-0.00105	PASS
					30	1.65	0.00064	PASS
					40	-4.36	-0.0017	PASS
					50	-1.22	-0.00048	PASS

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END