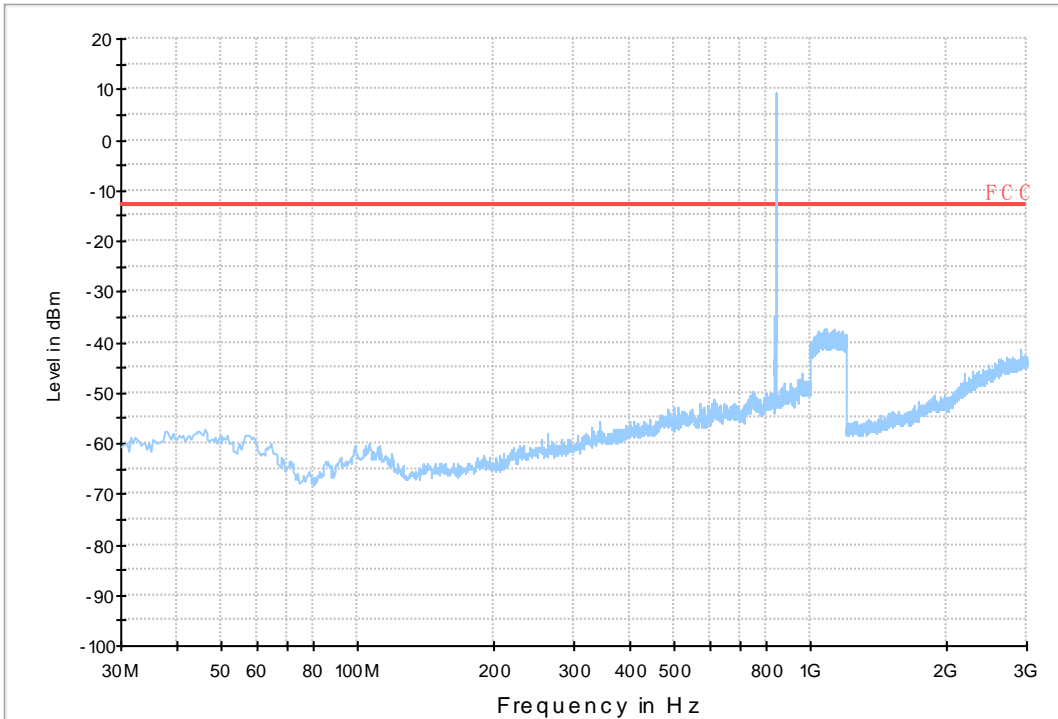
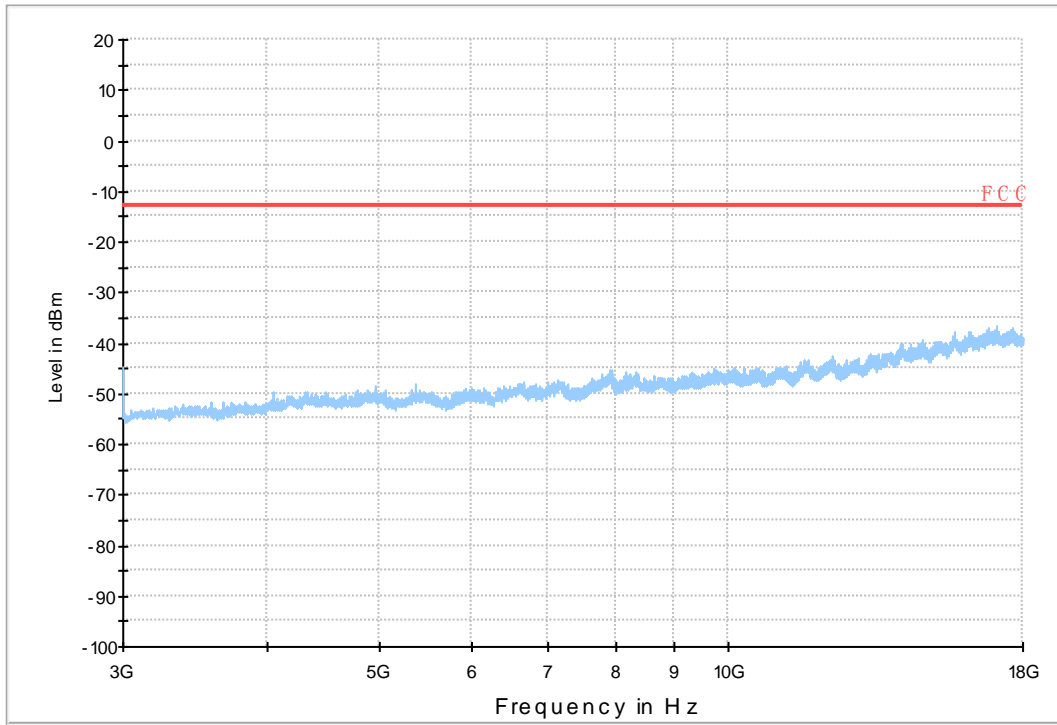


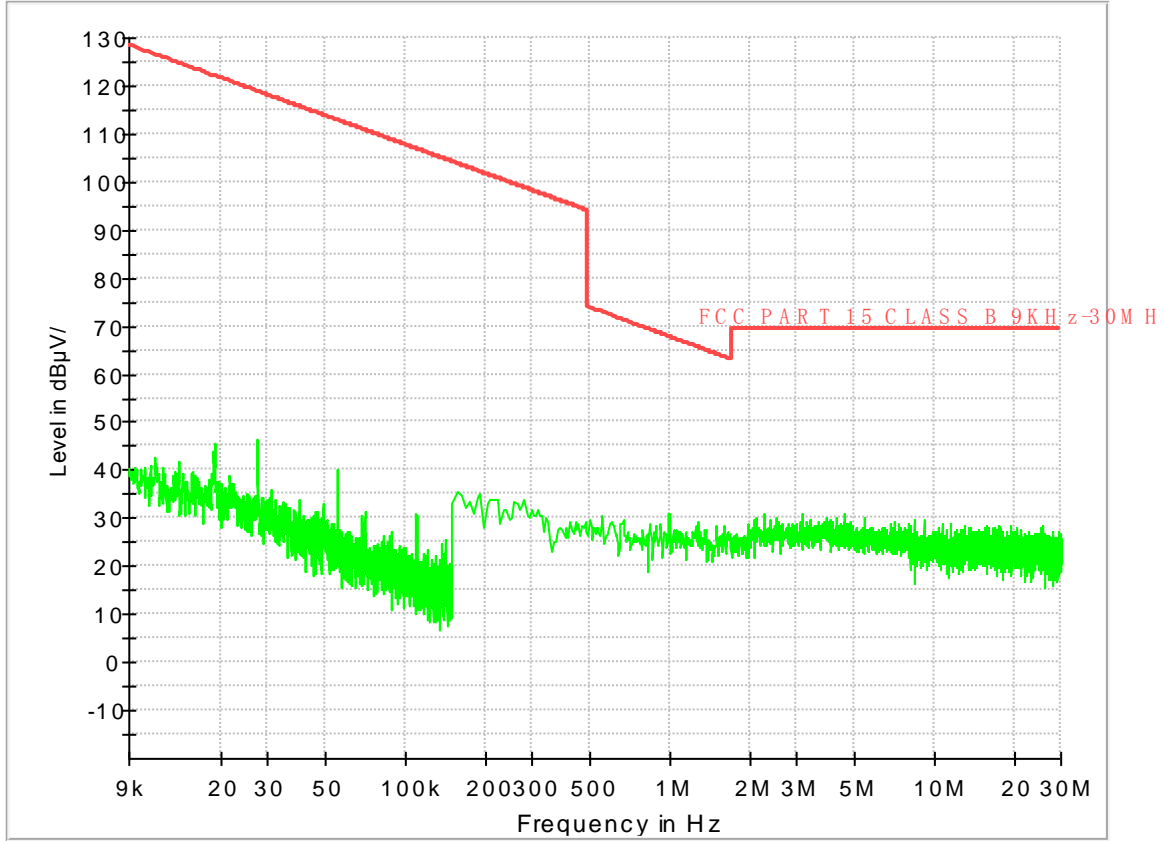
Copy of RSE-TX-DIRECTOR BELOW 1G\_L



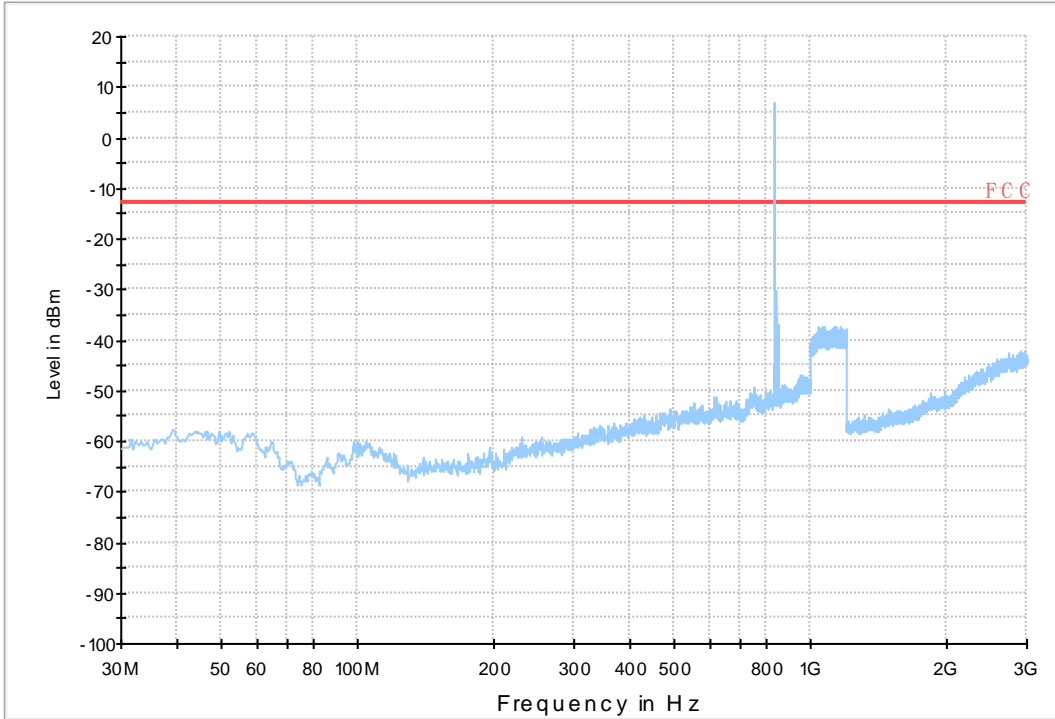
Copy of RSE-TX-DIRECTOR BELOW 1G\_H



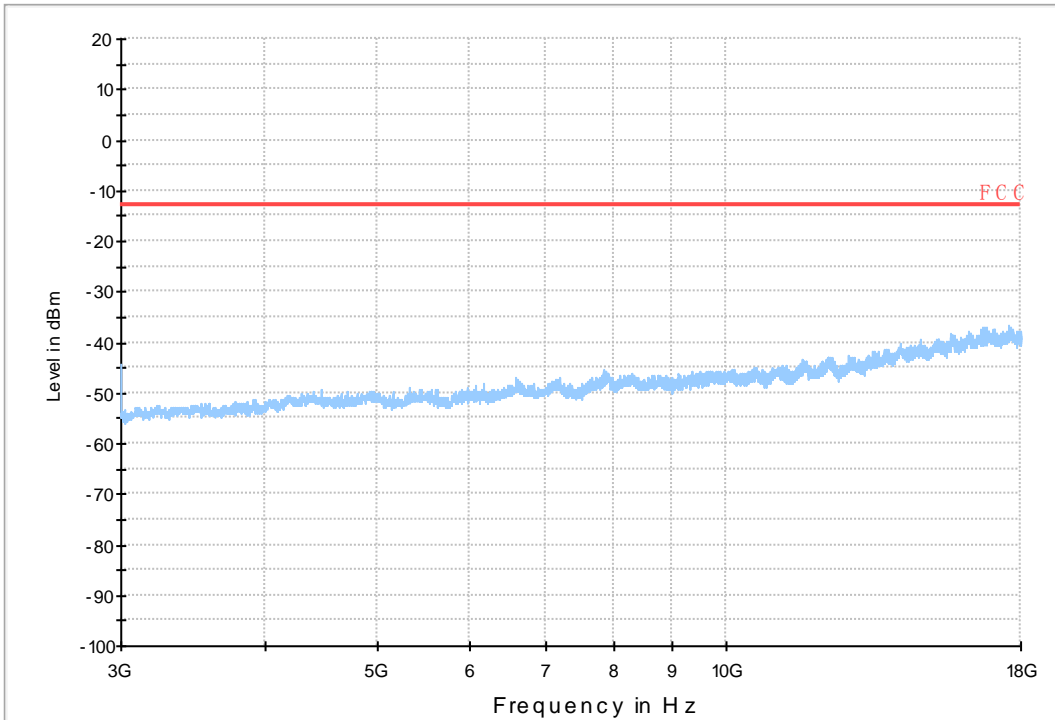
### 7.1.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G\_L

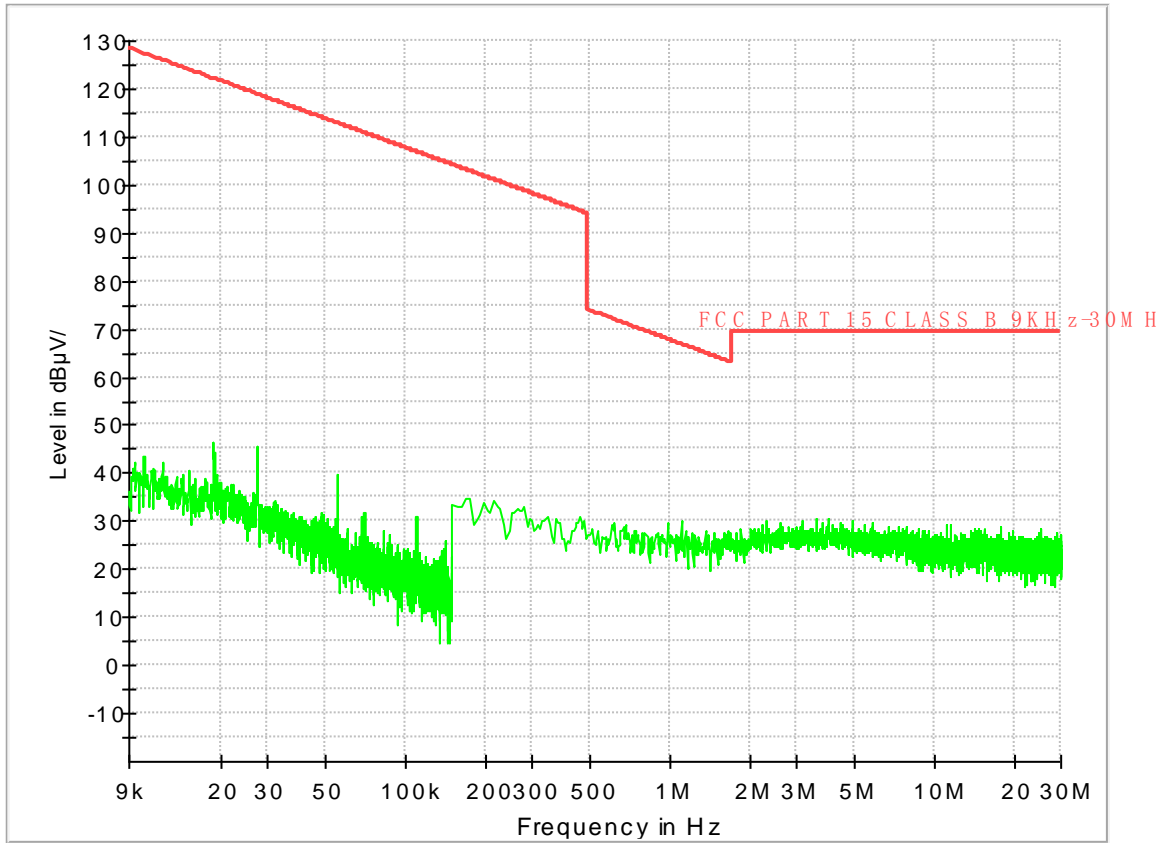


Copy of RSE-TX-DIRECTOR BELOW 1G\_H

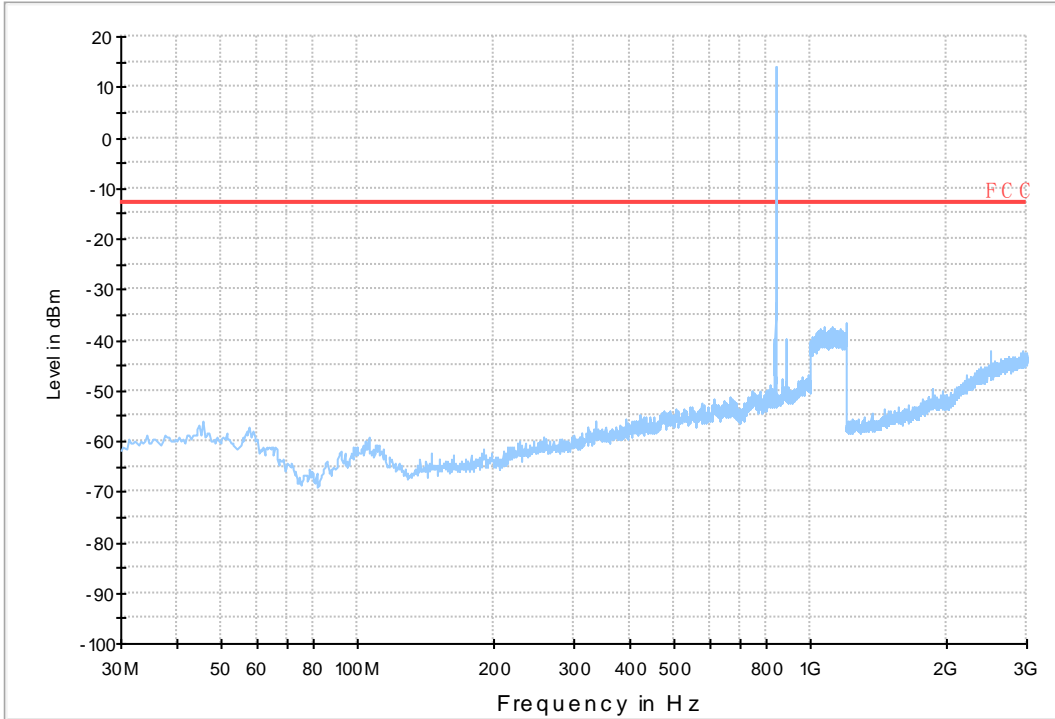


### 7.1.2 Test Band = BAND5\_ANT2

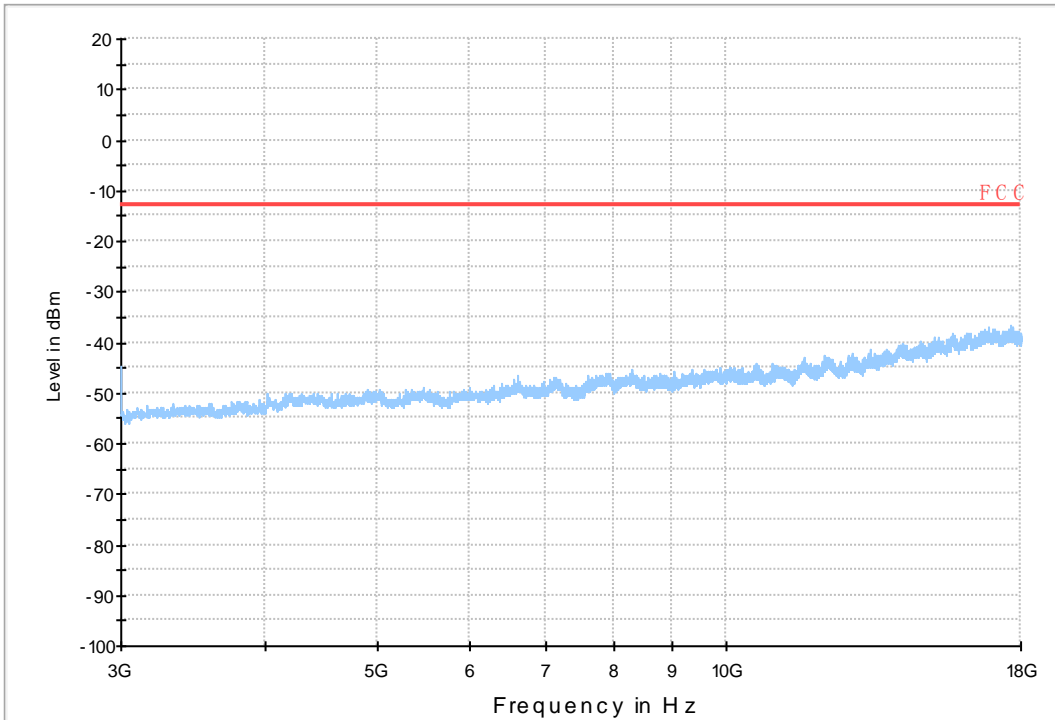
#### 7.1.2.1 Test Bandwidth = 1.4



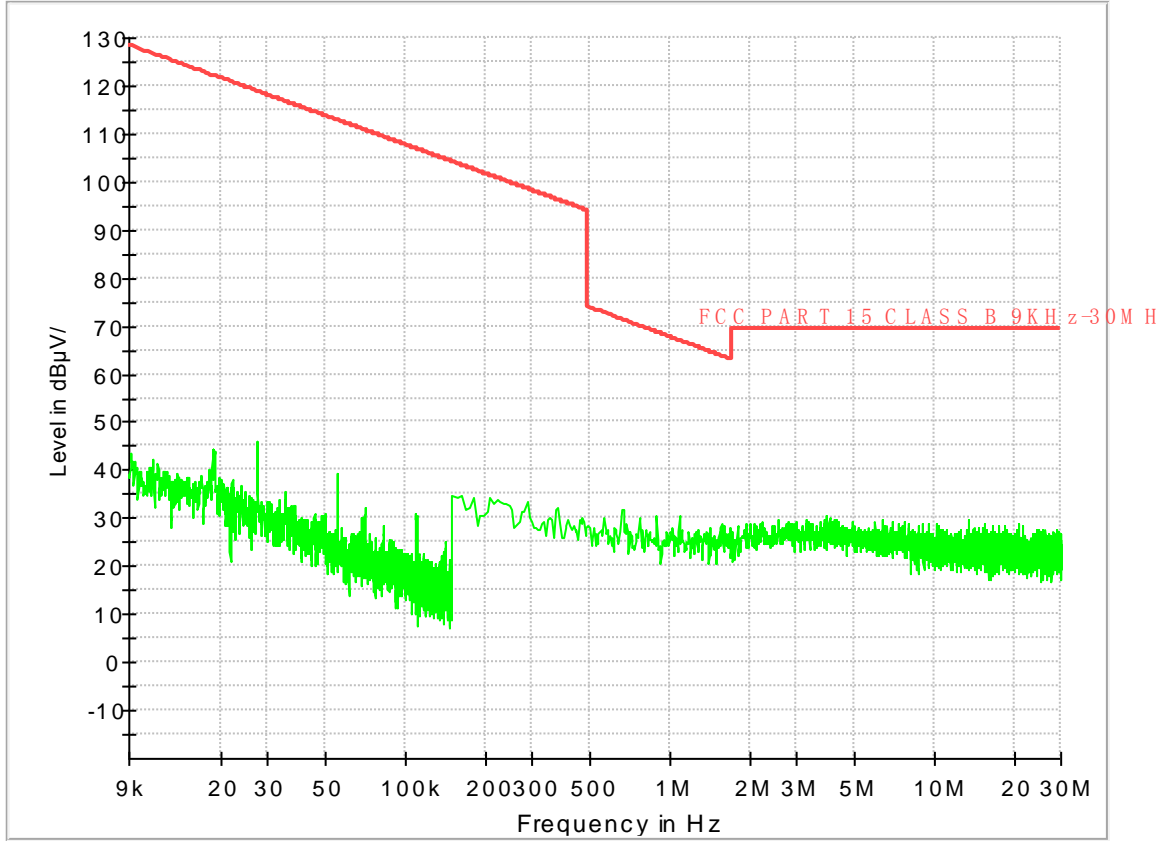
Copy of RSE-TX-DIRECTOR BELOW 1G\_L



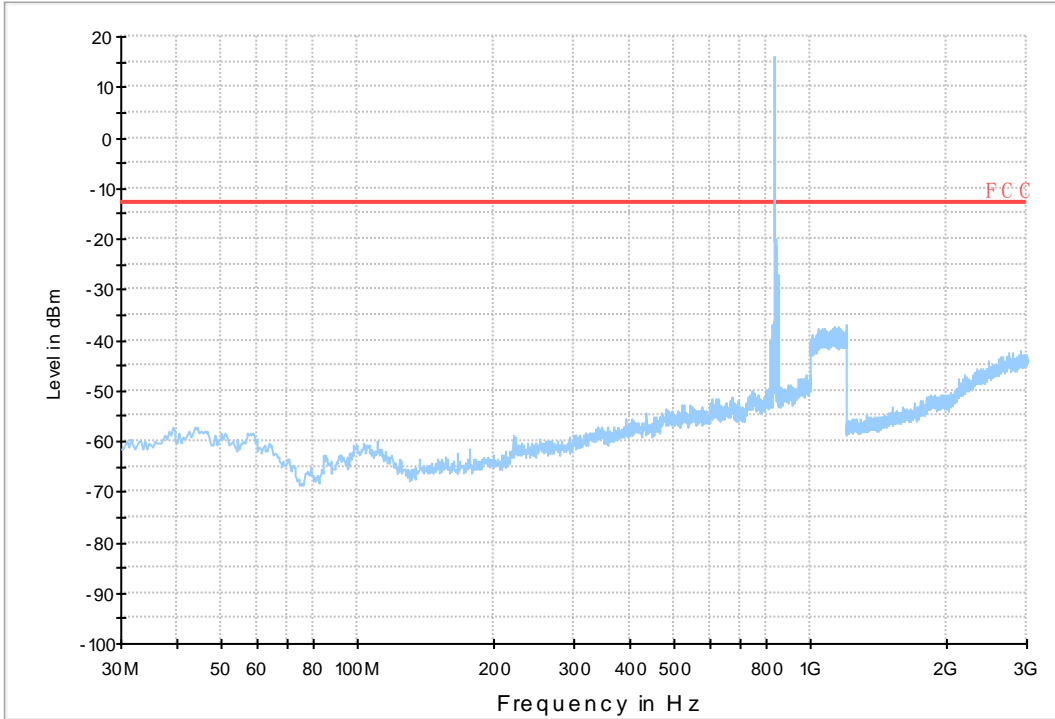
Copy of RSE-TX-DIRECTOR BELOW 1G\_H



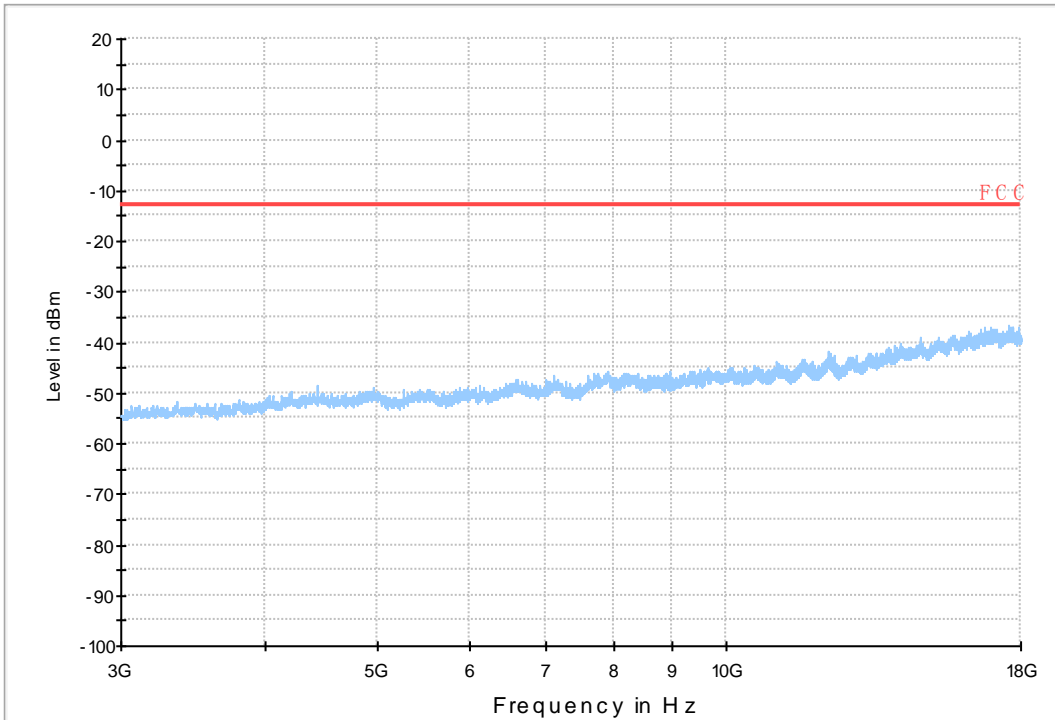
### 7.1.2.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G\_L



Copy of RSE-TX-DIRECTOR BELOW 1G\_H







## 8Appendix\_H: Frequency Stability

### 8.1 For LTE

#### 8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	LTE/TM1	1.4	LCH	TN	VL	1.79	0.00217	PASS
					VN	-1.62	-0.00196	PASS
					VH	5.31	0.00644	PASS
			MCH	TN	VL	-13.82	-0.01652	PASS
					VN	14.08	0.01683	PASS
					VH	-2.06	-0.00246	PASS
			HCH	TN	VL	-3.08	-0.00363	PASS
					VN	11.69	0.01378	PASS
					VH	1.69	0.00199	PASS
		3	LCH	TN	VL	4.08	0.00494	PASS
					VN	0.87	0.00105	PASS
					VH	-1.00	-0.00121	PASS
			MCH	TN	VL	-0.39	-0.00047	PASS
					VN	0.36	0.00043	PASS
					VH	-2.46	-0.00294	PASS
			HCH	TN	VL	0.67	0.00079	PASS
					VN	1.56	0.00184	PASS
					VH	4.08	0.00481	PASS
		5	LCH	TN	VL	0.44	0.00053	PASS
					VN	-1.00	-0.00121	PASS
					VH	-0.34	-0.00041	PASS
			MCH	TN	VL	17.31	0.02069	PASS
					VN	13.02	0.01556	PASS
					VH	3.73	0.00446	PASS
			HCH	TN	VL	0.86	0.00102	PASS
					VN	-0.63	-0.00074	PASS
					VH	1.16	0.00137	PASS
10	LCH	TN	VL	-2.37	-0.00286	PASS		
			VN	1.10	0.00133	PASS		
			VH	-0.76	-0.00092	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2		MCH	TN	VL	-2.95	-0.00353	PASS
					VN	-3.88	-0.00464	PASS
					VH	1.97	0.00236	PASS
			HCH	TN	VL	5.21	0.00617	PASS
					VN	2.79	0.00331	PASS
					VH	6.15	0.00729	PASS
		1.4	LCH	TN	VL	-1.27	-0.00154	PASS
					VN	0.99	0.0012	PASS
					VH	-8.51	-0.01032	PASS
			MCH	TN	VL	11.10	0.01327	PASS
					VN	-23.65	-0.02827	PASS
					VH	-20.63	-0.02466	PASS
			HCH	TN	VL	0.66	0.00078	PASS
					VN	5.41	0.00638	PASS
					VH	16.47	0.01942	PASS
		3	LCH	TN	VL	-0.66	-0.0008	PASS
					VN	5.95	0.00721	PASS
					VH	-4.35	-0.00527	PASS
			MCH	TN	VL	0.33	0.00039	PASS
					VN	-0.92	-0.0011	PASS
					VH	0.34	0.00041	PASS
			HCH	TN	VL	2.86	0.00337	PASS
					VN	0.39	0.00046	PASS
					VH	0.01	0.00001	PASS
		5	LCH	TN	VL	1.77	0.00214	PASS
					VN	0.86	0.00104	PASS
					VH	-1.13	-0.00137	PASS
			MCH	TN	VL	1.40	0.00167	PASS
					VN	-5.99	-0.00716	PASS
					VH	-4.11	-0.00491	PASS
			HCH	TN	VL	0.67	0.00079	PASS
					VN	-4.16	-0.00491	PASS
					VH	-1.29	-0.00152	PASS
		10	LCH	TN	VL	-0.47	-0.00057	PASS
					VN	1.80	0.00217	PASS
					VH	-1.56	-0.00188	PASS
			MCH	TN	VL	1.83	0.00219	PASS
					VN	0.94	0.00112	PASS
					VH	7.65	0.00915	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VL	5.41	0.00641	PASS
					VN	9.13	0.01082	PASS
					VH	2.59	0.00307	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	LTE/TM1	1.4	LCH	VN	-30	-1.43	-0.00173	PASS
					-20	2.02	0.00245	PASS
					-10	-2.65	-0.00321	PASS
					0	-3.10	-0.00376	PASS
					10	-1.63	-0.00198	PASS
					20	-5.04	-0.00611	PASS
					30	-0.96	-0.00116	PASS
					40	-4.03	-0.00489	PASS
			50	1.56	0.00189	PASS		
			MCH	VN	-30	-9.67	-0.01156	PASS
					-20	-2.65	-0.00317	PASS
					-10	13.56	0.01621	PASS
					0	20.84	0.02491	PASS
					10	9.96	0.01191	PASS
					20	13.12	0.01568	PASS
					30	-34.09	-0.04075	PASS
					40	-22.37	-0.02674	PASS
			50	30.27	0.03619	PASS		
			HCH	VN	-30	4.33	0.0051	PASS
					-20	29.94	0.03529	PASS
					-10	8.27	0.00975	PASS
					0	-2.75	-0.00324	PASS
					10	-0.37	-0.00044	PASS
					20	-15.13	-0.01784	PASS
		30			7.38	0.0087	PASS	
		40			-2.63	-0.0031	PASS	
		50	-0.01	-0.00001	PASS			
		3	LCH	VN	-30	2.16	0.00262	PASS
					-20	-0.69	-0.00084	PASS
					-10	-1.79	-0.00217	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	0.92	0.00111	PASS
					10	-0.33	-0.0004	PASS
					20	-0.37	-0.00045	PASS
					30	-4.59	-0.00556	PASS
					40	-2.62	-0.00317	PASS
					50	-0.53	-0.00064	PASS
			MCH	VN	-30	-2.07	-0.00247	PASS
					-20	2.62	0.00313	PASS
					-10	-1.53	-0.00183	PASS
					0	-3.00	-0.00359	PASS
					10	-2.49	-0.00298	PASS
					20	-2.32	-0.00277	PASS
					30	-1.69	-0.00202	PASS
					40	-2.93	-0.0035	PASS
			HCH	VN	50	-4.31	-0.00515	PASS
					-30	-1.10	-0.0013	PASS
					-20	0.62	0.00073	PASS
					-10	1.73	0.00204	PASS
					0	0.30	0.00035	PASS
					10	-3.20	-0.00378	PASS
					20	-0.60	-0.00071	PASS
					30	0.39	0.00046	PASS
			LCH	VN	40	-0.11	-0.00013	PASS
					50	-0.03	-0.00004	PASS
					-30	-0.43	-0.00052	PASS
					-20	-3.32	-0.00402	PASS
					-10	-1.09	-0.00132	PASS
					0	-3.98	-0.00482	PASS
					10	-3.33	-0.00403	PASS
					20	1.46	0.00177	PASS
			MCH	VN	30	-3.62	-0.00438	PASS
					40	-1.34	-0.00162	PASS
					50	-0.80	-0.00097	PASS
					-30	-3.23	-0.00386	PASS
					-20	8.90	0.01064	PASS
					-10	10.74	0.01284	PASS
					0	3.65	0.00436	PASS
					10	-10.04	-0.012	PASS
					20	-11.70	-0.01399	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					30	-5.18	-0.00619	PASS		
					40	2.62	0.00313	PASS		
					50	2.86	0.00342	PASS		
			HCH	VN	-30	1.39	0.00164	PASS		
					-20	-1.07	-0.00126	PASS		
					-10	-0.54	-0.00064	PASS		
					0	-1.09	-0.00129	PASS		
					10	-0.67	-0.00079	PASS		
					20	-1.07	-0.00126	PASS		
					30	-0.24	-0.00028	PASS		
					40	-0.36	-0.00043	PASS		
					50	0.69	0.00082	PASS		
					LCH	VN	-30	0.10	0.00012	PASS
							-20	-1.26	-0.00152	PASS
							-10	2.13	0.00257	PASS
		0	-0.94	-0.00113			PASS			
		10	-1.93	-0.00233			PASS			
		20	-0.83	-0.001			PASS			
		30	0.49	0.00059			PASS			
		40	-1.73	-0.00209			PASS			
		50	0.57	0.00069			PASS			
		MCH	VN	-30	-3.18	-0.0038	PASS			
				-20	3.40	0.00406	PASS			
				-10	2.19	0.00262	PASS			
				0	3.05	0.00365	PASS			
				10	-0.36	-0.00043	PASS			
				20	-1.50	-0.00179	PASS			
				30	0.16	0.00019	PASS			
				40	3.76	0.00449	PASS			
				50	3.02	0.00361	PASS			
		HCH	VN	-30	4.16	0.00493	PASS			
				-20	6.77	0.00802	PASS			
				-10	5.85	0.00693	PASS			
				0	6.87	0.00814	PASS			
				10	6.85	0.00812	PASS			
				20	7.35	0.00871	PASS			
				30	7.17	0.0085	PASS			
				40	7.80	0.00924	PASS			
		50	3.93	0.00466	PASS					
		10								

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	1.4	LCH	VN	-30	0.94	0.00114	PASS
					-20	0.63	0.00076	PASS
					-10	-3.58	-0.00434	PASS
					0	-4.49	-0.00544	PASS
					10	-4.92	-0.00597	PASS
					20	-1.52	-0.00184	PASS
					30	-3.19	-0.00387	PASS
					40	-3.55	-0.0043	PASS
					50	0.13	0.00016	PASS
			MCH	VN	-30	3.82	0.00457	PASS
					-20	-6.75	-0.00807	PASS
					-10	-0.30	-0.00036	PASS
					0	-15.82	-0.01891	PASS
					10	1.56	0.00186	PASS
					20	2.69	0.00322	PASS
					30	-5.04	-0.00603	PASS
					40	-22.79	-0.02724	PASS
					50	5.04	0.00603	PASS
		HCH	VN	-30	-3.86	-0.00455	PASS	
				-20	-2.22	-0.00262	PASS	
				-10	6.29	0.00741	PASS	
				0	1.42	0.00167	PASS	
				10	-9.57	-0.01128	PASS	
				20	-3.36	-0.00396	PASS	
				30	15.99	0.01885	PASS	
				40	-9.76	-0.01151	PASS	
				50	-24.59	-0.02899	PASS	
		3	LCH	VN	-30	1.14	0.00138	PASS
					-20	0.24	0.00029	PASS
					-10	2.36	0.00286	PASS
					0	-3.38	-0.00409	PASS
					10	-2.10	-0.00254	PASS
					20	1.52	0.00184	PASS
					30	1.07	0.0013	PASS
					40	-3.81	-0.00462	PASS
					50	-3.39	-0.00411	PASS
MCH	VN		-30	-0.96	-0.00115	PASS		
			-20	-3.53	-0.00422	PASS		
			-10	4.11	0.00491	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-3.03	-0.00362	PASS
					10	0.17	0.0002	PASS
					20	0.86	0.00103	PASS
					30	-2.89	-0.00345	PASS
					40	0.86	0.00103	PASS
					50	-0.11	-0.00013	PASS
			HCH	VN	-30	-4.55	-0.00537	PASS
					-20	0.74	0.00087	PASS
					-10	1.04	0.00123	PASS
					0	-0.44	-0.00052	PASS
					10	-1.07	-0.00126	PASS
					20	2.52	0.00297	PASS
					30	-1.14	-0.00135	PASS
					40	-0.82	-0.00097	PASS
		50	-2.93	-0.00346	PASS			
		5	LCH	VN	-30	-0.26	-0.00031	PASS
					-20	2.47	0.00299	PASS
					-10	0.34	0.00041	PASS
					0	1.00	0.00121	PASS
					10	1.73	0.00209	PASS
					20	-4.18	-0.00506	PASS
					30	-2.89	-0.0035	PASS
					40	-0.16	-0.00019	PASS
					50	2.73	0.0033	PASS
			MCH	VN	-30	-6.38	-0.00763	PASS
					-20	5.42	0.00648	PASS
					-10	6.28	0.00751	PASS
					0	8.30	0.00992	PASS
					10	0.66	0.00079	PASS
					20	9.87	0.0118	PASS
					30	2.79	0.00334	PASS
					40	0.00	0	PASS
			50	19.93	0.02383	PASS		
		HCH	VN	-30	-2.17	-0.00256	PASS	
				-20	-2.66	-0.00314	PASS	
				-10	-0.19	-0.00022	PASS	
				0	-0.33	-0.00039	PASS	
				10	0.77	0.00091	PASS	
				20	-0.53	-0.00063	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					30	-2.12	-0.0025	PASS		
					40	-4.21	-0.00497	PASS		
					50	-5.97	-0.00705	PASS		
		10	LCH	VN	-30	0.39	0.00047	PASS		
					-20	0.31	0.00037	PASS		
					-10	1.44	0.00174	PASS		
					0	0.66	0.0008	PASS		
					10	2.35	0.00283	PASS		
					20	-2.19	-0.00264	PASS		
					30	-2.66	-0.00321	PASS		
					40	0.51	0.00062	PASS		
					50	-0.20	-0.00024	PASS		
					MCH	VN	-30	3.56	0.00426	PASS
							-20	-0.63	-0.00075	PASS
							-10	-3.43	-0.0041	PASS
							0	-1.14	-0.00136	PASS
							10	-0.46	-0.00055	PASS
							20	-1.93	-0.00231	PASS
		30	0.13	0.00016			PASS			
		HCH	VN	40	1.65	0.00197	PASS			
				50	-0.36	-0.00043	PASS			
				-30	9.33	0.01105	PASS			
				-20	5.72	0.00678	PASS			
				-10	8.01	0.00949	PASS			
				0	5.46	0.00647	PASS			
				10	1.57	0.00186	PASS			
				20	4.11	0.00487	PASS			
		30	9.06	0.01073	PASS					
		40	2.55	0.00302	PASS					
		50	9.51	0.01127	PASS					

END