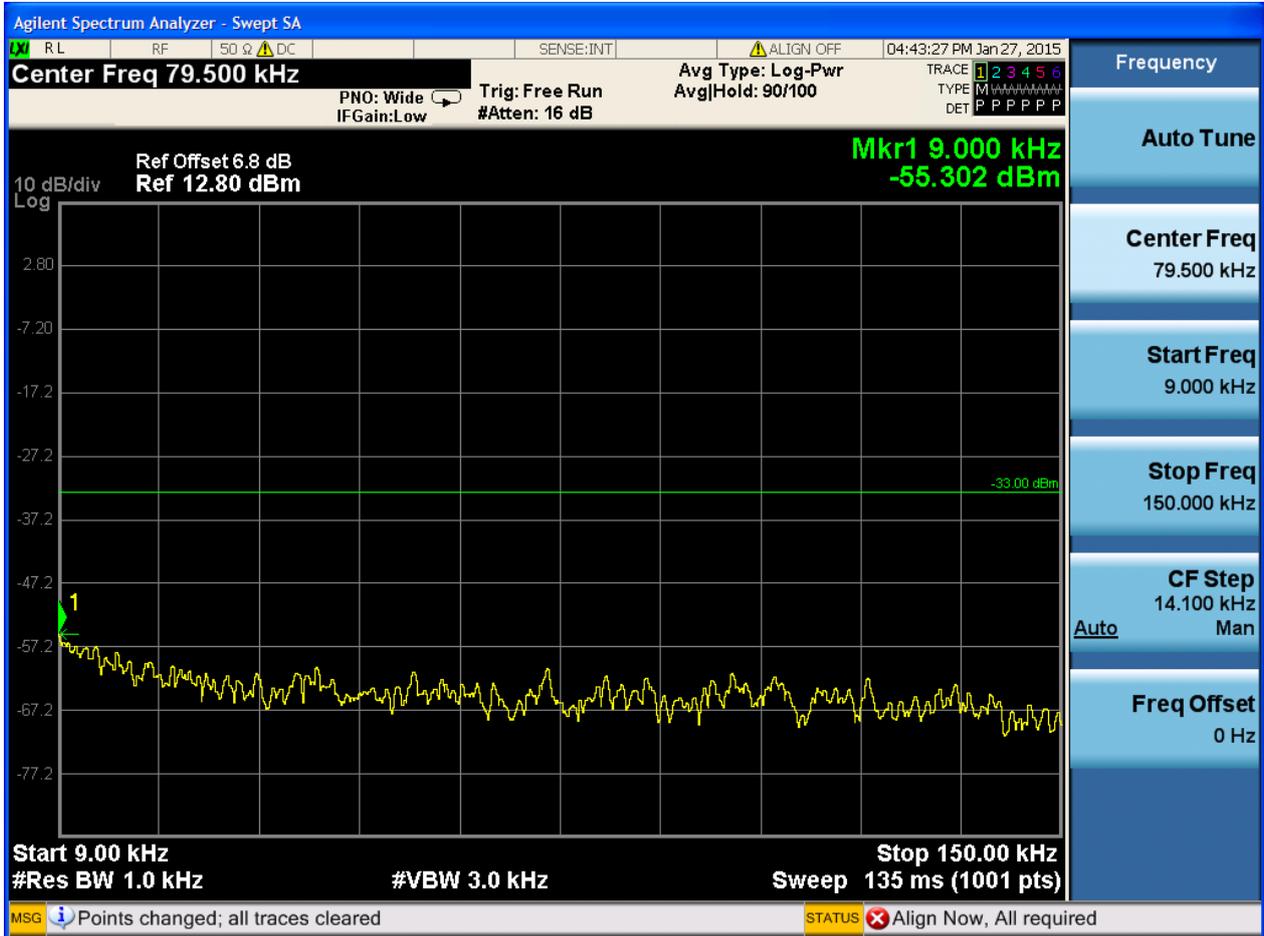


6.1.6.2.2.3 Test Channel = HCH

6.1.6.2.2.3.1 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

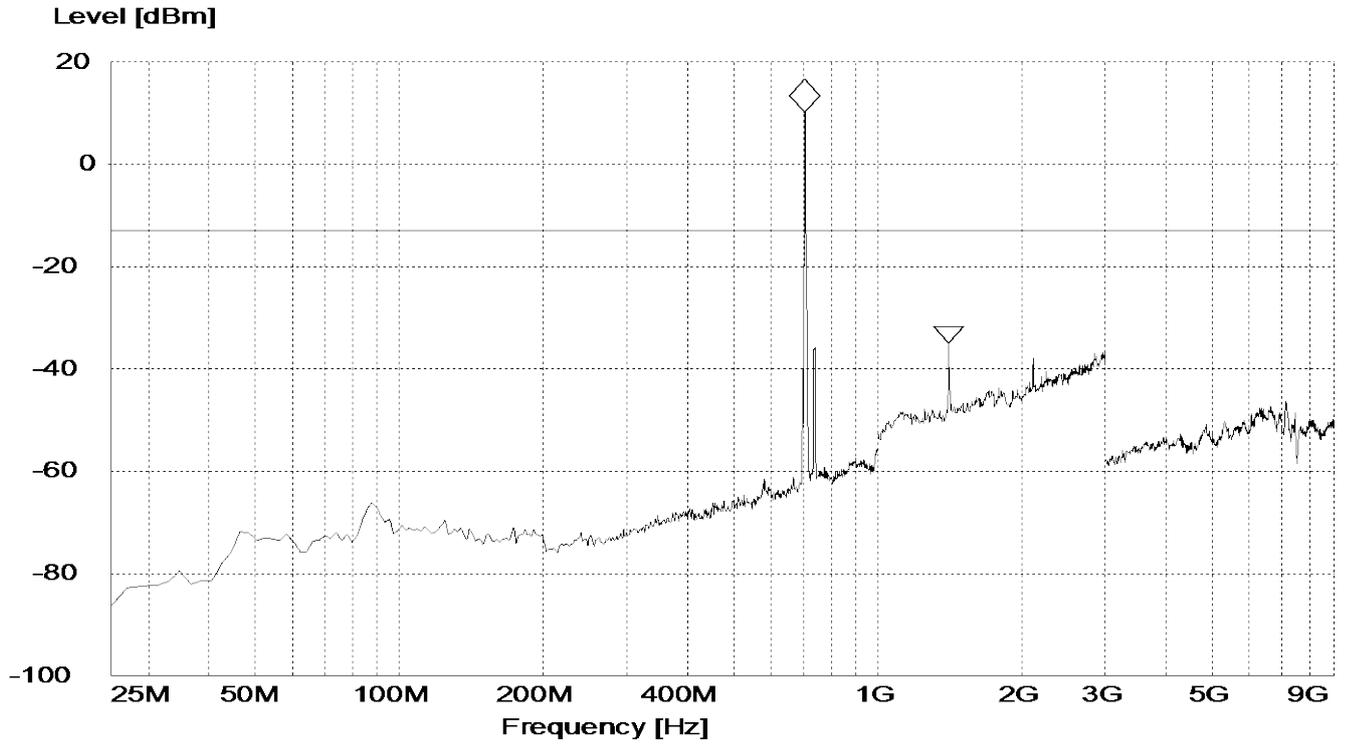
6.1 For LTE

6.1.1 Test Band = BAND12

6.1.1.1 Test Bandwidth = 5



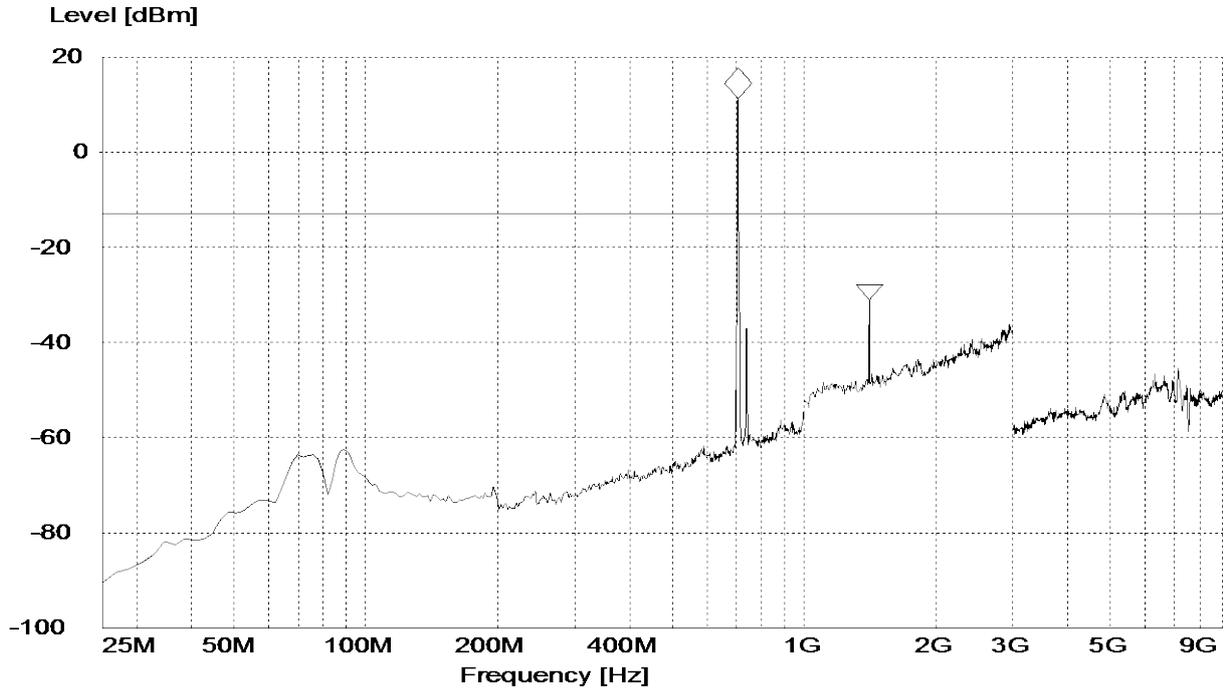
Marker: 704.95992 MHz 10.03 dBm
Delta Mk: 703.857715 MHz -45.08 dB



— MES LTE BAND12 M 5M V
— Constant: -13 dBm

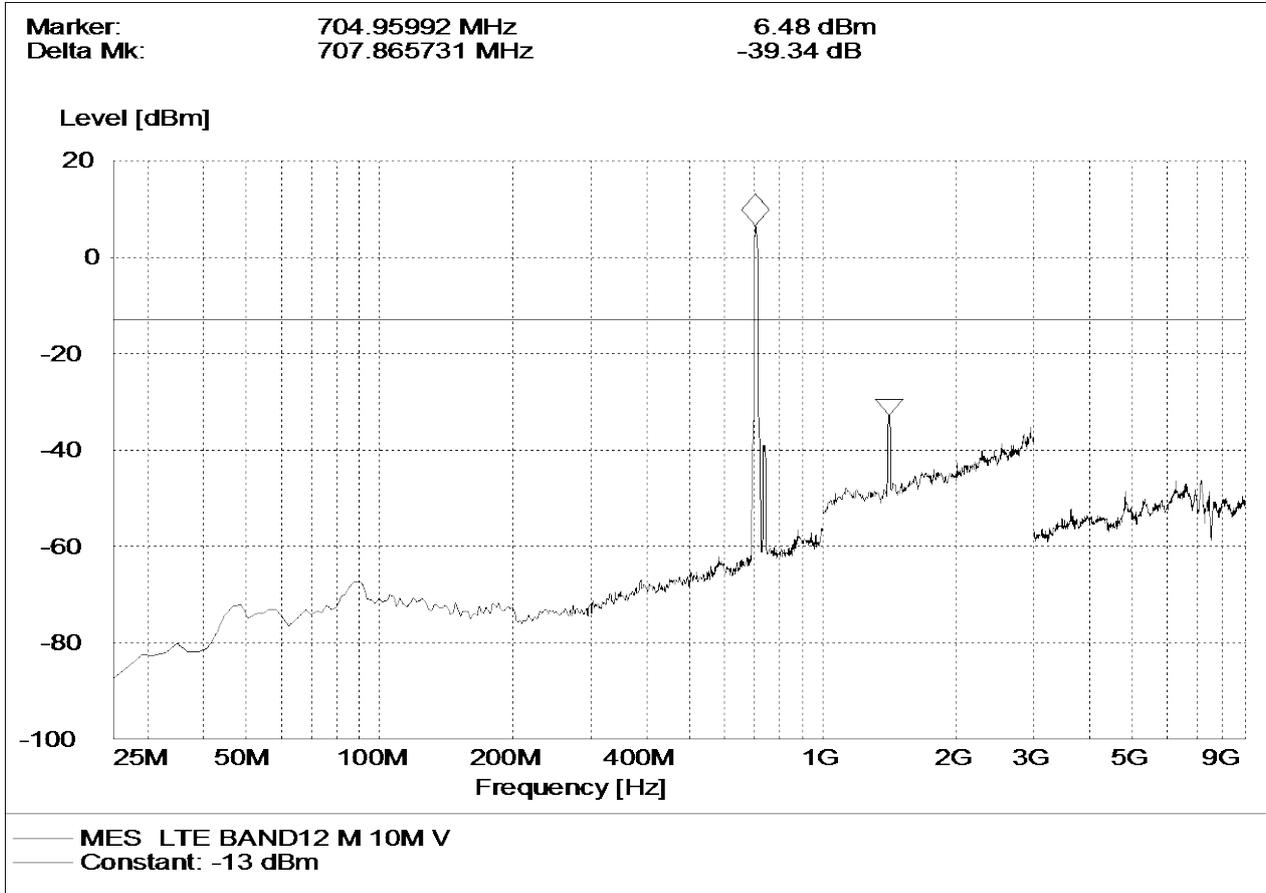


Marker: 706.913828 MHz 11.17 dBm
Delta Mk: 701.903807 MHz -42.23 dB



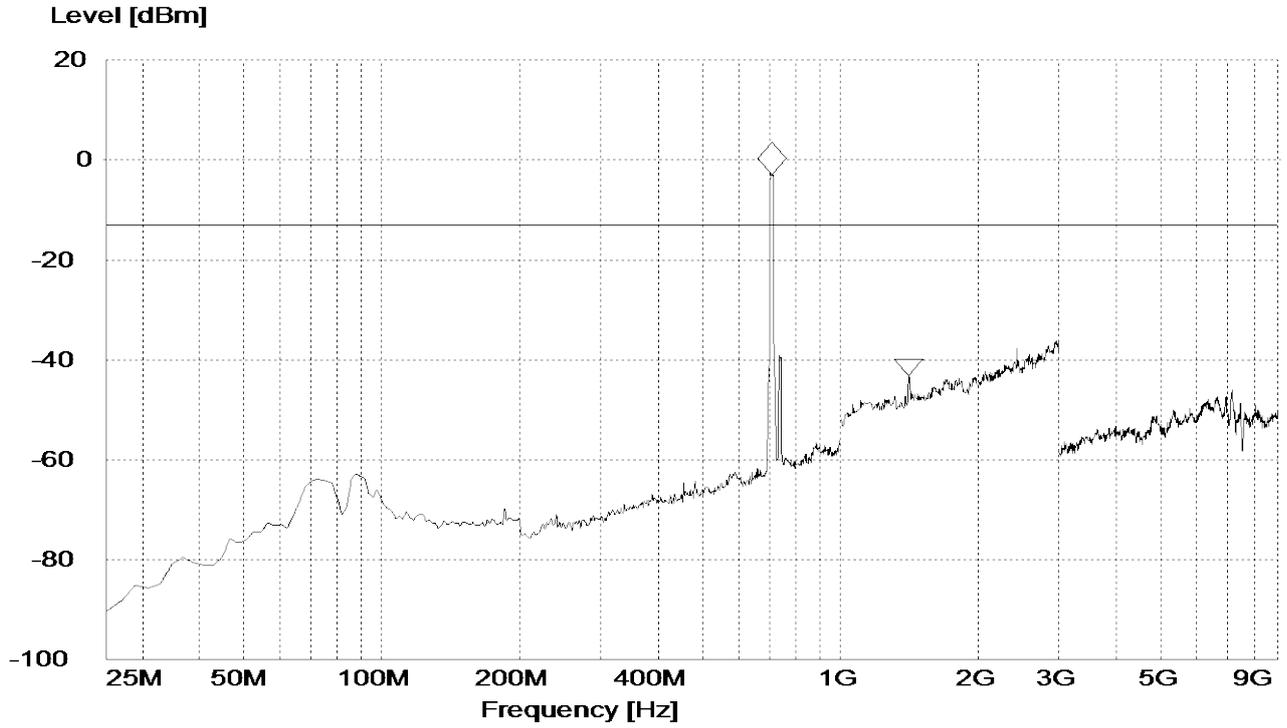
— MES LTE BAND12 M 5M H
— Constant: -13 dBm

6.1.1.2 Test Bandwidth = 10





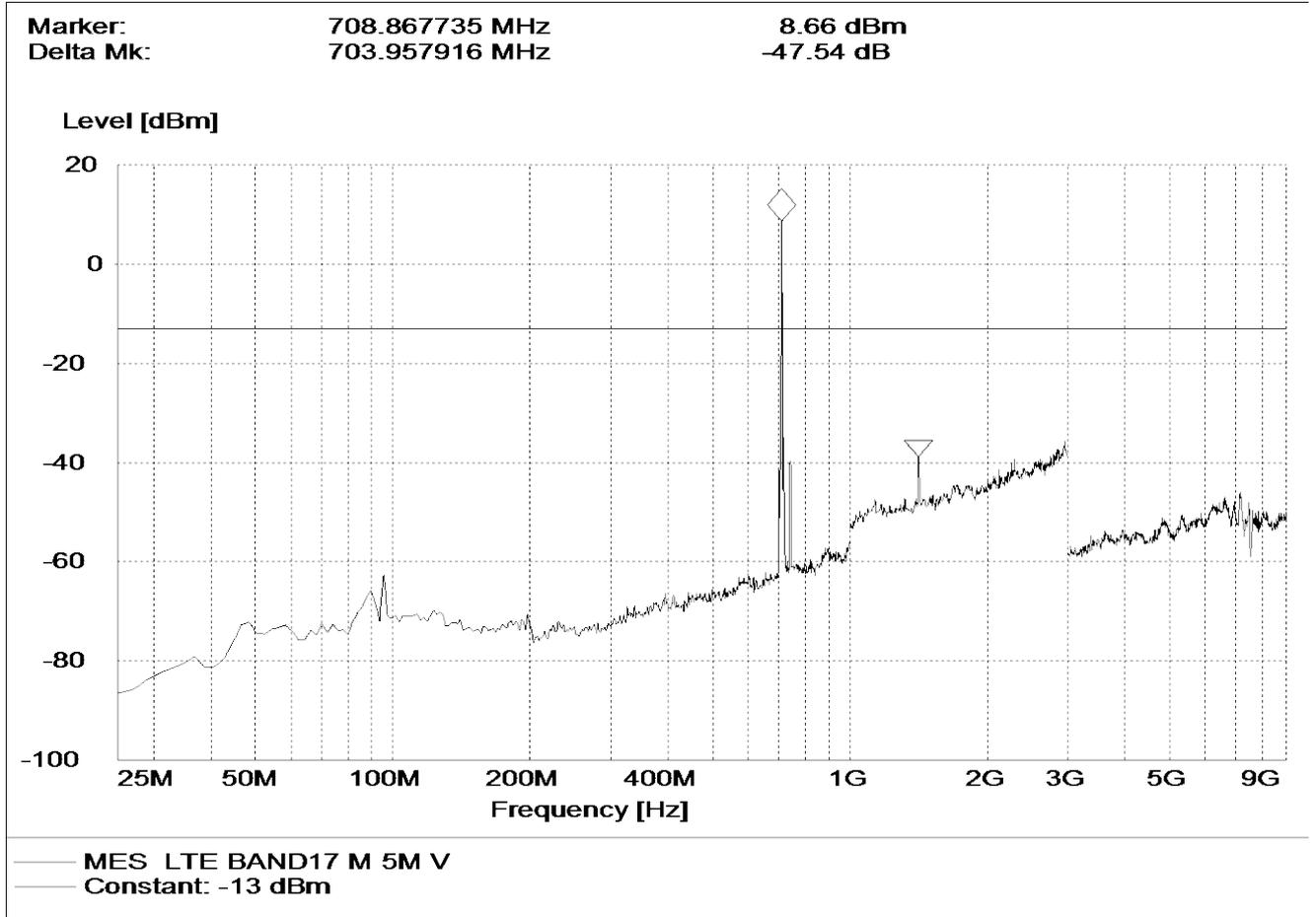
Marker: 708.867735 MHz -3 dBm
Delta Mk: 699.9499 MHz -40.19 dB



— MES LTE BAND12 M 10M H
— Constant: -13 dBm

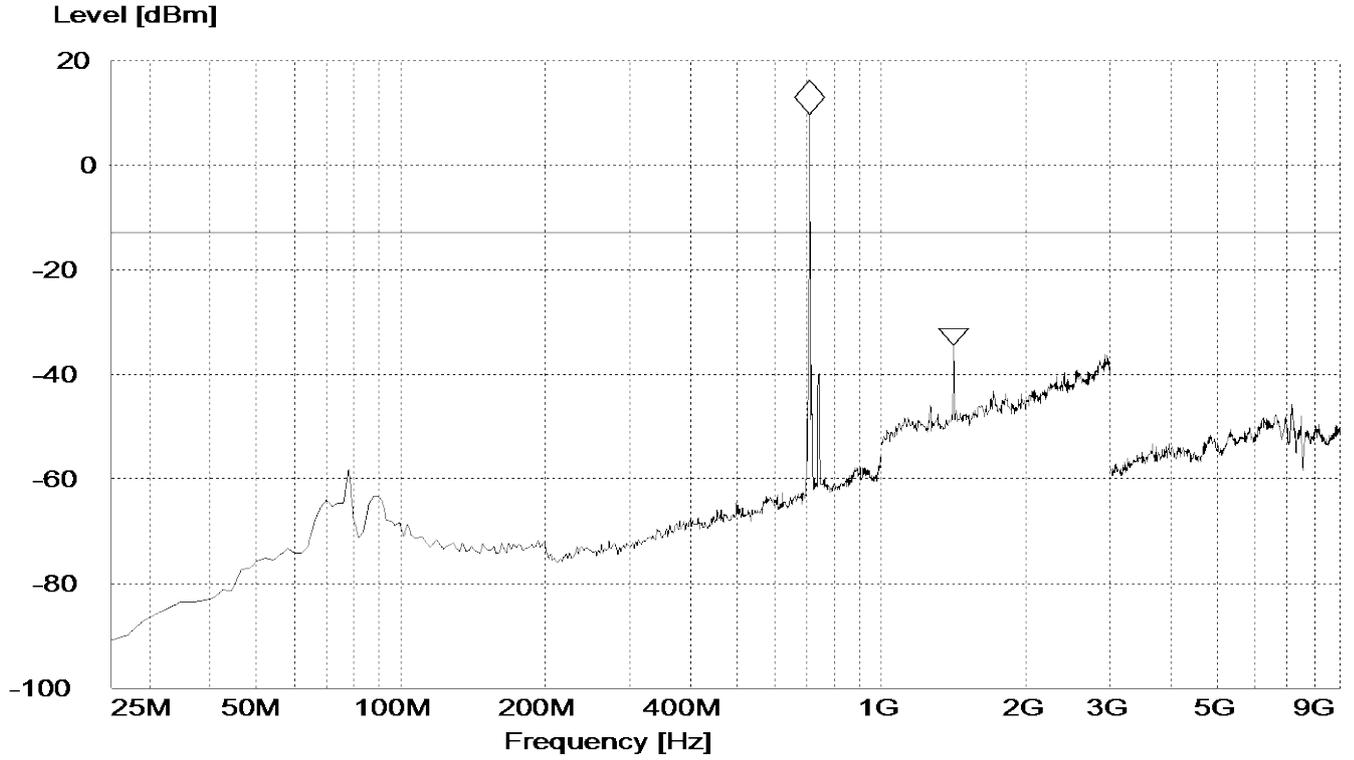
6.1.2 Test Band = BAND17

6.1.2.1 Test Bandwidth = 5



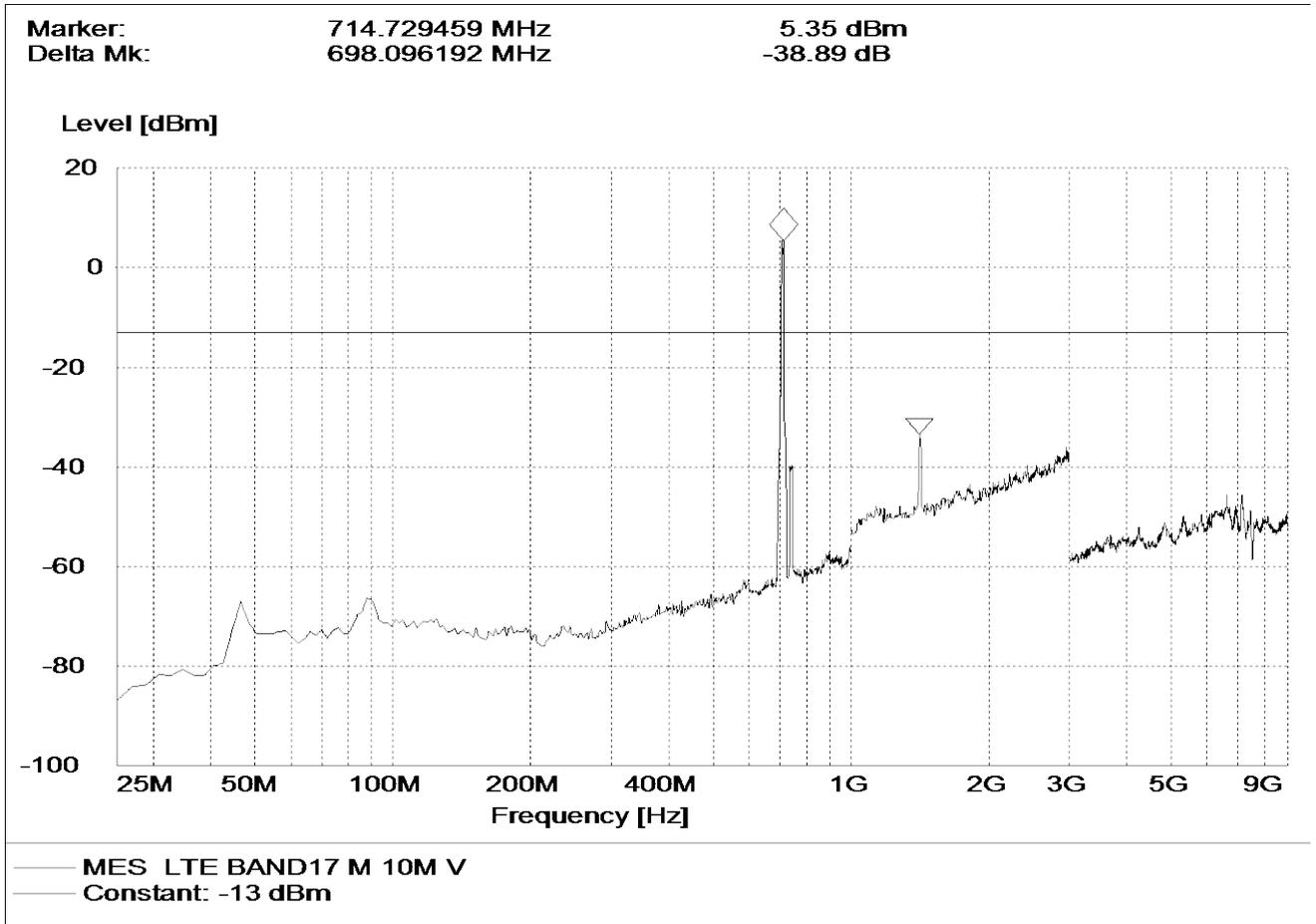


Marker: 708.867735 MHz 9.64 dBm
Delta Mk: 703.957916 MHz -44.13 dB

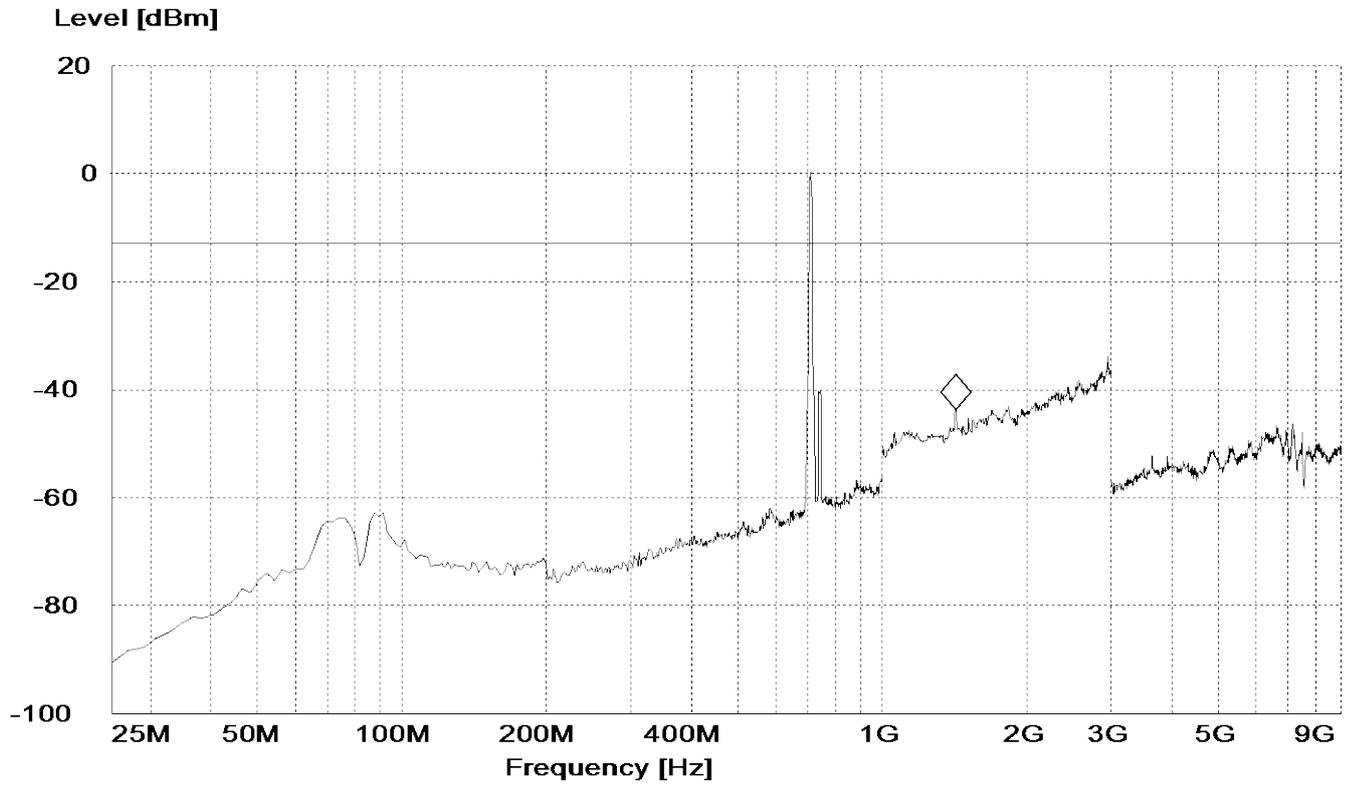


— MES LTE BAND17 M 5M H
— Constant: -13 dBm

6.1.1.2 Test Bandwidth = 10



Marker: 1.420841683 GHz -43.81 dBm



— MES LTE BAND17 M 10M H
— Constant: -13 dBm



8Appendix_H: Frequency Stability



7.1 For LTE

7.1.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND12	LTE/TM1	5	LCH	TN	VL	5.68	.0081	PASS
					VN	-0.11	-.00016	PASS
					VH	-0.03	-.00004	PASS
			MCH	TN	VL	-0.19	-.00027	PASS
					VN	0.80	.00113	PASS
					VH	-1.52	-.00215	PASS
			HCH	TN	VL	1.00	.0014	PASS
					VN	-1.22	-.00171	PASS
					VH	-2.68	-.00376	PASS
		10	LCH	TN	VL	-2.66	-.00378	PASS
					VN	1.53	.00217	PASS
					VH	1.50	.00213	PASS
			MCH	TN	VL	-0.20	-.00028	PASS
					VN	-1.19	-.00168	PASS
					VH	0.59	.00083	PASS
	HCH	TN	VL	-1.77	-.00249	PASS		
			VN	-1.69	-.00238	PASS		
			VH	0.93	.00131	PASS		
	LTE/TM2	5	LCH	TN	VL	0.64	.00091	PASS
					VN	0.69	.00098	PASS
					VH	-0.03	-.00004	PASS
			MCH	TN	VL	0.07	.0001	PASS
					VN	-0.49	-.00069	PASS
					VH	0.19	.00027	PASS
			HCH	TN	VL	0.40	.00056	PASS
					VN	-0.54	-.00076	PASS
					VH	0.51	.00071	PASS
10		LCH	TN	VL	0.54	.00077	PASS	
				VN	-0.60	-.00085	PASS	
				VH	-0.11	-.00016	PASS	
MCH	TN	VL	0.19	.00027	PASS			
		VN	-0.10	-.00014	PASS			
		VH	1.86	.00263	PASS			
HCH	TN	VL	-0.40	-.00056	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND17					VN	0.14	.0002	PASS
					VH	-0.56	-.00079	PASS
	LTE/TM1	5	LCH	TN	VL	8.54	.01209	PASS
					VN	-0.04	-.00006	PASS
					VH	-2.27	-.00321	PASS
			MCH	TN	VL	-1.54	-.00217	PASS
					VN	0.06	.00008	PASS
					VH	0.17	.00024	PASS
		HCH	TN	VL	-0.04	-.00006	PASS	
				VN	1.44	.00202	PASS	
				VH	-0.16	-.00022	PASS	
		10	LCH	TN	VL	-0.11	-.00016	PASS
					VN	0.67	.00094	PASS
					VH	0.57	.0008	PASS
			MCH	TN	VL	-0.40	-.00056	PASS
					VN	-1.87	-.00263	PASS
					VH	1.09	.00154	PASS
		HCH	TN	VL	-1.52	-.00214	PASS	
				VN	-0.87	-.00122	PASS	
				VH	2.25	.00316	PASS	
	LTE/TM2	5	LCH	TN	VL	0.23	.00033	PASS
					VN	-0.37	-.00052	PASS
					VH	1.09	.00154	PASS
			MCH	TN	VL	1.50	.00211	PASS
					VN	0.46	.00065	PASS
					VH	0.74	.00104	PASS
		HCH	TN	VL	-2.49	-.00349	PASS	
				VN	-0.33	-.00046	PASS	
				VH	-0.14	-.0002	PASS	
		10	LCH	TN	VL	0.10	.00014	PASS
VN					-0.24	-.00034	PASS	
VH					-2.68	-.00378	PASS	
MCH			TN	VL	0.33	.00046	PASS	
				VN	-0.37	-.00052	PASS	
				VH	1.65	.00232	PASS	
HCH		TN	VL	0.40	.00056	PASS		
			VN	-2.23	-.00314	PASS		
			VH	1.82	.00256	PASS		



7.1.2 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
BAND12	LTE/TM1	5	LCH	VN	-30	-0.76	-.00108	PASS
					-20	-0.62	-.00088	PASS
					-10	-0.23	-.00033	PASS
					0	-0.23	-.00033	PASS
					10	-1.06	-.00151	PASS
					20	-0.24	-.00034	PASS
					30	-0.90	-.00128	PASS
					40	-1.16	-.00165	PASS
					50	-0.56	-.0008	PASS
			MCH	VN	-30	0.43	.00061	PASS
					-20	-0.86	-.00122	PASS
					-10	-1.67	-.00236	PASS
					0	0.93	.00131	PASS
					10	-0.54	-.00076	PASS
					20	-0.62	-.00088	PASS
					30	-0.96	-.00136	PASS
					40	-0.23	-.00033	PASS
					50	-1.76	-.00249	PASS
			HCH	VN	-30	-1.40	-.00196	PASS
					-20	-1.22	-.00171	PASS
					-10	0.80	.00112	PASS
					0	-0.69	-.00097	PASS
					10	0.54	.00076	PASS
					20	-0.40	-.00056	PASS
		30			1.07	.0015	PASS	
		40			-0.37	-.00052	PASS	
		50			0.96	.00135	PASS	
		10	LCH	VN	-30	-0.69	-.00098	PASS
					-20	-0.30	-.00043	PASS
					-10	-2.26	-.00321	PASS
					0	0.30	.00043	PASS
					10	-0.41	-.00058	PASS
					20	-0.77	-.00109	PASS
					30	-0.21	-.0003	PASS
					40	-1.03	-.00146	PASS
					50	-1.89	-.00268	PASS
MCH	VN				-30	-0.50	-.00071	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-0.64	-.0009	PASS
					-10	-0.10	-.00014	PASS
					0	2.10	.00297	PASS
					10	0.31	.00044	PASS
					20	-0.41	-.00058	PASS
					30	0.46	.00065	PASS
					40	0.43	.00061	PASS
					50	-2.36	-.00334	PASS
					HCH	VN	-30	1.12
			-20	-0.36			-.00051	PASS
			-10	-1.63			-.00229	PASS
			0	1.22			.00172	PASS
			10	-0.20			-.00028	PASS
			20	1.32			.00186	PASS
			30	-1.14			-.0016	PASS
			40	-1.17			-.00165	PASS
			50	-1.73			-.00243	PASS
			LTE/TM2	5	LCH	VN	-30	0.70
	-20	-1.07					-.00153	PASS
	-10	-0.31					-.00044	PASS
	0	0.43					.00061	PASS
	10	-1.09					-.00155	PASS
	20	-0.92					-.00131	PASS
	30	-2.10					-.00299	PASS
	40	0.82					.00117	PASS
	50	-1.09					-.00155	PASS
	MCH	VN			-30	-1.07	-.00151	PASS
					-20	1.09	.00154	PASS
					-10	-3.26	-.00461	PASS
					0	-0.93	-.00131	PASS
					10	-0.60	-.00085	PASS
					20	1.17	.00165	PASS
					30	0.34	.00048	PASS
					40	1.30	.00184	PASS
					50	0.73	.00103	PASS
	HCH	VN	-30	-0.96	-.00135	PASS		
-20			0.01	.00001	PASS			
-10			1.57	.0022	PASS			
0			1.92	.00269	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					10	-1.20	-.00168	PASS		
					20	1.06	.00149	PASS		
					30	-0.01	-.00001	PASS		
					40	0.67	.00094	PASS		
					50	1.37	.00192	PASS		
		10	LCH	VN	-30	-1.49	-.00212	PASS		
					-20	-1.40	-.00199	PASS		
					-10	-1.59	-.00226	PASS		
					0	-1.62	-.0023	PASS		
					10	-1.33	-.00189	PASS		
					20	0.49	.0007	PASS		
					30	0.16	.00023	PASS		
					40	0.07	.0001	PASS		
					50	0.34	.00048	PASS		
					MCH	VN	-30	-0.11	-.00016	PASS
							-20	-0.20	-.00028	PASS
							-10	-0.19	-.00027	PASS
							0	1.97	.00278	PASS
							10	-0.76	-.00107	PASS
							20	0.54	.00076	PASS
			30	-0.27			-.00038	PASS		
			40	0.73			.00103	PASS		
			HCH	VN	50	0.44	.00062	PASS		
					-30	-0.44	-.00062	PASS		
					-20	0.34	.00048	PASS		
					-10	-0.82	-.00115	PASS		
					0	0.44	.00062	PASS		
					10	0.01	.00001	PASS		
					20	-0.19	-.00027	PASS		
			30	-0.01	-.00001	PASS				
40	-1.13	-.00159	PASS							
50	-0.37	-.00052	PASS							



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND17	LTE/TM1	5	LCH	VN	-30	-2.02	-.00286	PASS
					-20	0.41	.00058	PASS
					-10	-2.55	-.00361	PASS
					0	0.97	.00137	PASS
					10	-1.82	-.00258	PASS
					20	3.42	.00484	PASS
					30	0.93	.00132	PASS
					40	1.12	.00159	PASS
					50	1.04	.00147	PASS
			MCH	VN	-30	-0.54	-.00076	PASS
					-20	1.95	.00275	PASS
					-10	-0.27	-.00038	PASS
					0	-1.57	-.00221	PASS
					10	0.39	.00055	PASS
					20	-0.10	-.00014	PASS
					30	-0.07	-.0001	PASS
					40	0.60	.00085	PASS
					50	1.06	.00149	PASS
		HCH	VN	-30	-0.72	-.00101	PASS	
				-20	-0.51	-.00071	PASS	
				-10	0.10	.00014	PASS	
				0	-1.14	-.0016	PASS	
				10	-1.67	-.00234	PASS	
				20	0.00	0	PASS	
				30	-4.19	-.00587	PASS	
				40	0.76	.00107	PASS	
				50	-0.04	-.00006	PASS	
		10	LCH	VN	-30	-1.49	-.0021	PASS
					-20	-2.39	-.00337	PASS
					-10	-1.20	-.00169	PASS
					0	-0.03	-.00004	PASS
					10	-2.07	-.00292	PASS
					20	0.90	.00127	PASS
					30	0.82	.00116	PASS
					40	0.57	.0008	PASS
					50	0.77	.00109	PASS
MCH	VN		-30	-1.29	-.00182	PASS		
			-20	-0.17	-.00024	PASS		
			-10	1.99	.0028	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					0	1.16	.00163	PASS		
					10	-0.67	-.00094	PASS		
					20	-1.44	-.00203	PASS		
					30	-2.99	-.00421	PASS		
					40	-3.06	-.00431	PASS		
					50	-1.77	-.00249	PASS		
			HCH	VN	-30	3.18	.00447	PASS		
					-20	-0.69	-.00097	PASS		
					-10	-1.56	-.00219	PASS		
					0	3.26	.00459	PASS		
					10	0.47	.00066	PASS		
					20	2.46	.00346	PASS		
					30	0.46	.00065	PASS		
					40	-1.27	-.00179	PASS		
					50	3.55	.00499	PASS		
					LCH	VN	-30	-2.75	-.00389	PASS
							-20	-1.24	-.00176	PASS
							-10	-6.11	-.00865	PASS
	0	0.24	.00034	PASS						
	10	-1.17	-.00166	PASS						
	20	5.41	.00766	PASS						
	30	0.24	.00034	PASS						
	40	0.39	.00055	PASS						
	50	-0.89	-.00126	PASS						
	MCH	VN	-30	1.02			.00144	PASS		
			-20	-0.20			-.00028	PASS		
			-10	-1.79			-.00252	PASS		
			0	-2.16			-.00304	PASS		
			10	-0.99			-.00139	PASS		
			20	-0.46			-.00065	PASS		
			30	0.03			.00004	PASS		
			40	0.19			.00027	PASS		
			50	0.93			.00131	PASS		
	HCH	VN	-30	-1.66	-.00233	PASS				
			-20	1.17	.00164	PASS				
			-10	-0.87	-.00122	PASS				
0			-1.29	-.00181	PASS					
10			0.37	.00052	PASS					
20			1.07	.0015	PASS					



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					30	2.70	.00378	PASS		
					40	1.14	.0016	PASS		
					50	-0.21	-.00029	PASS		
		10	LCH	VN	-30	0.19	.00027	PASS		
					-20	-1.26	-.00178	PASS		
					-10	2.20	.0031	PASS		
					0	-0.30	-.00042	PASS		
					10	1.66	.00234	PASS		
					20	0.74	.00104	PASS		
					30	1.22	.00172	PASS		
					40	0.79	.00111	PASS		
					50	1.03	.00145	PASS		
					MCH	VN	-30	2.35	.00331	PASS
							-20	0.89	.00125	PASS
							-10	0.53	.00075	PASS
							0	-0.27	-.00038	PASS
							10	0.20	.00028	PASS
							20	-0.51	-.00072	PASS
							30	0.09	.00013	PASS
					HCH	VN	-30	1.63	.00229	PASS
							-20	0.62	.00087	PASS
		-10	-1.10	-.00155			PASS			
		0	0.97	.00136			PASS			
		10	-2.75	-.00387			PASS			
		20	1.26	.00177			PASS			
		30	-1.72	-.00242			PASS			
		40	-0.27	-.00038			PASS			
50	0.26	.00037	PASS							

END