



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:53:51PM Oct 13, 2017

Center Freq 2.57000000 GHz Avg Type: RMS
PNO: Fast IFGain:Low Trig: Free Run #Atten: 36 dB
PASS TYPE MAAAAA
DET AAAAAA

Ref Offset 7.3 dB
Ref 30.00 dBm

Mkr1 2.570 01 GHz
-21.340 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 430 kHz
#VBW 1.3 MHz*
Span 50.84 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.544580000 GHz

Stop Freq
2.595420000 GHz

CF Step
5.084000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.4.2.3 Test RB = RB50#25





5.1.1.2.4.2.4 Test RB = RB100#0



6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For LTE

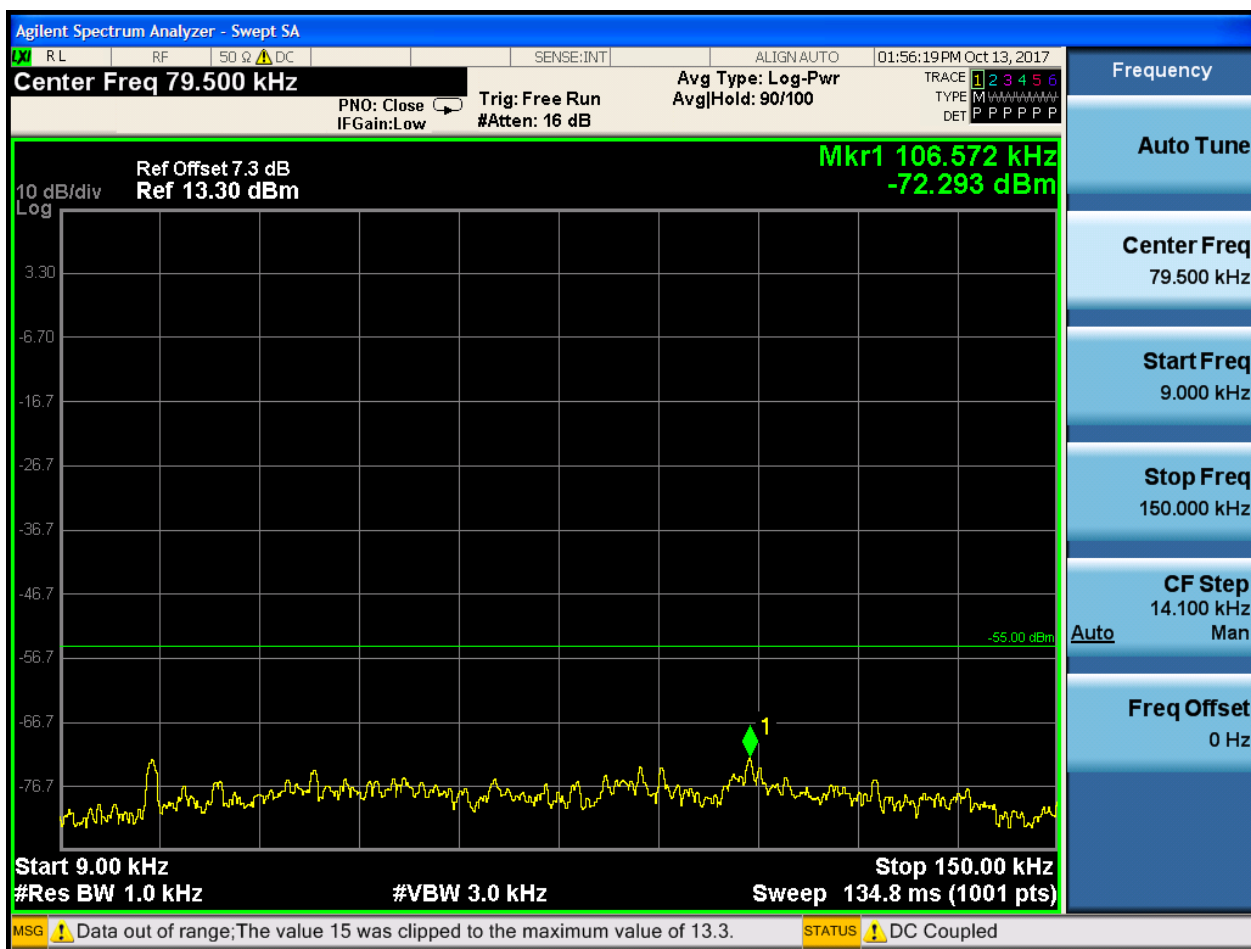
6.1.1 Test Band = BAND7

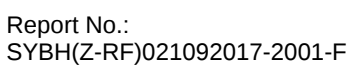
6.1.1.1 Test Mode = LTE/TM1

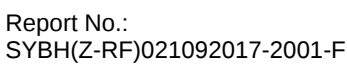
6.1.1.1.1 Test Bandwidth = 5

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0

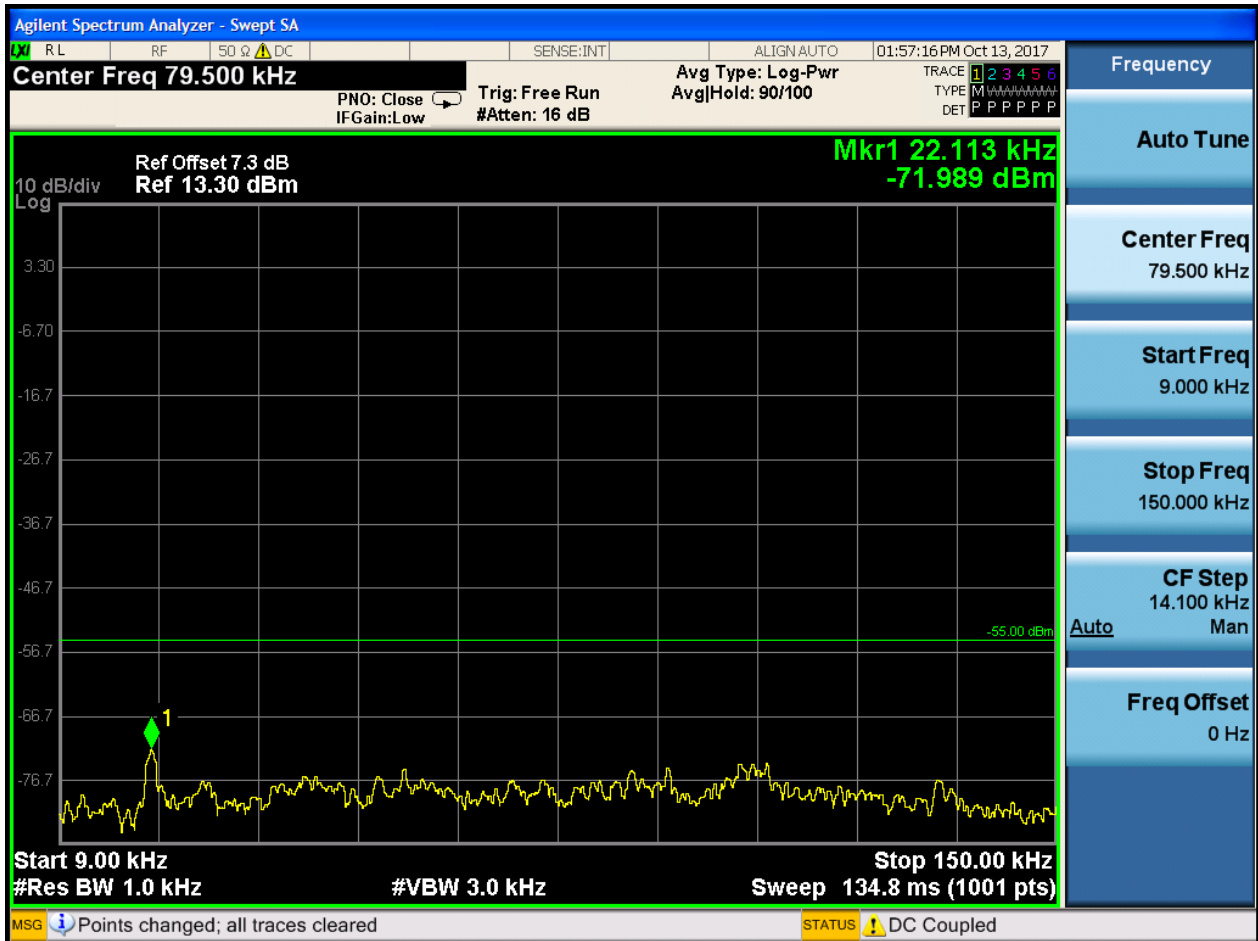


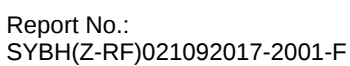


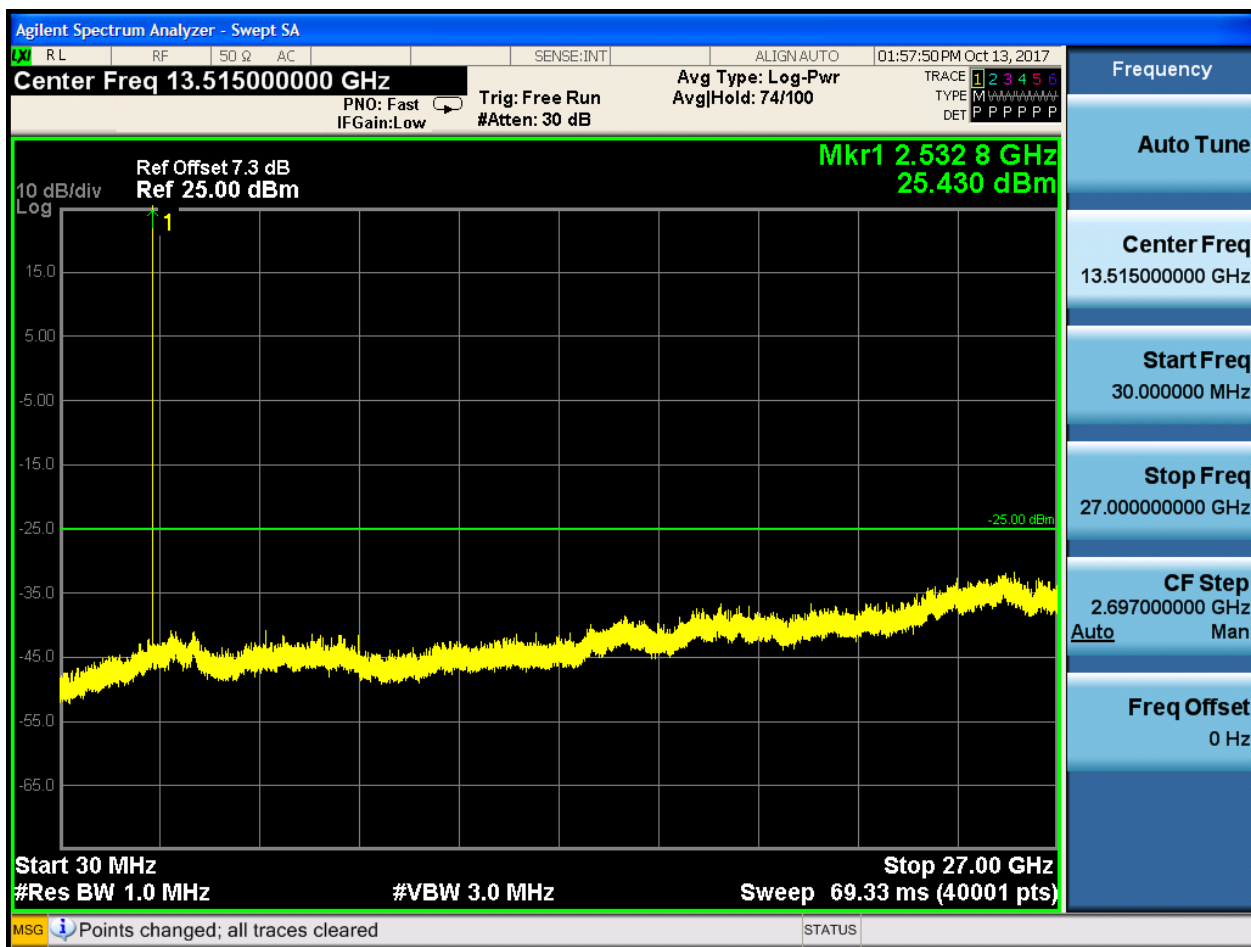


6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0



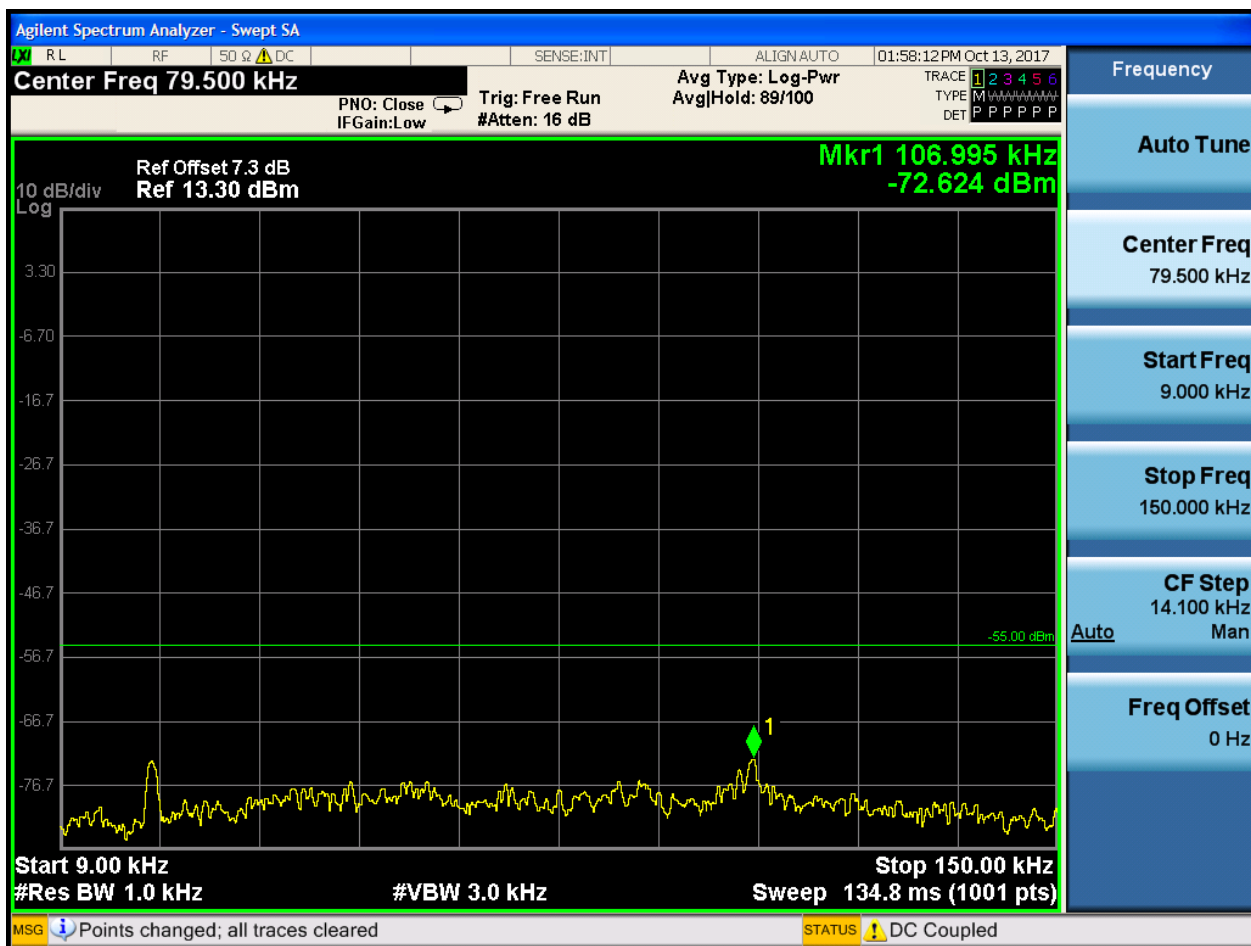


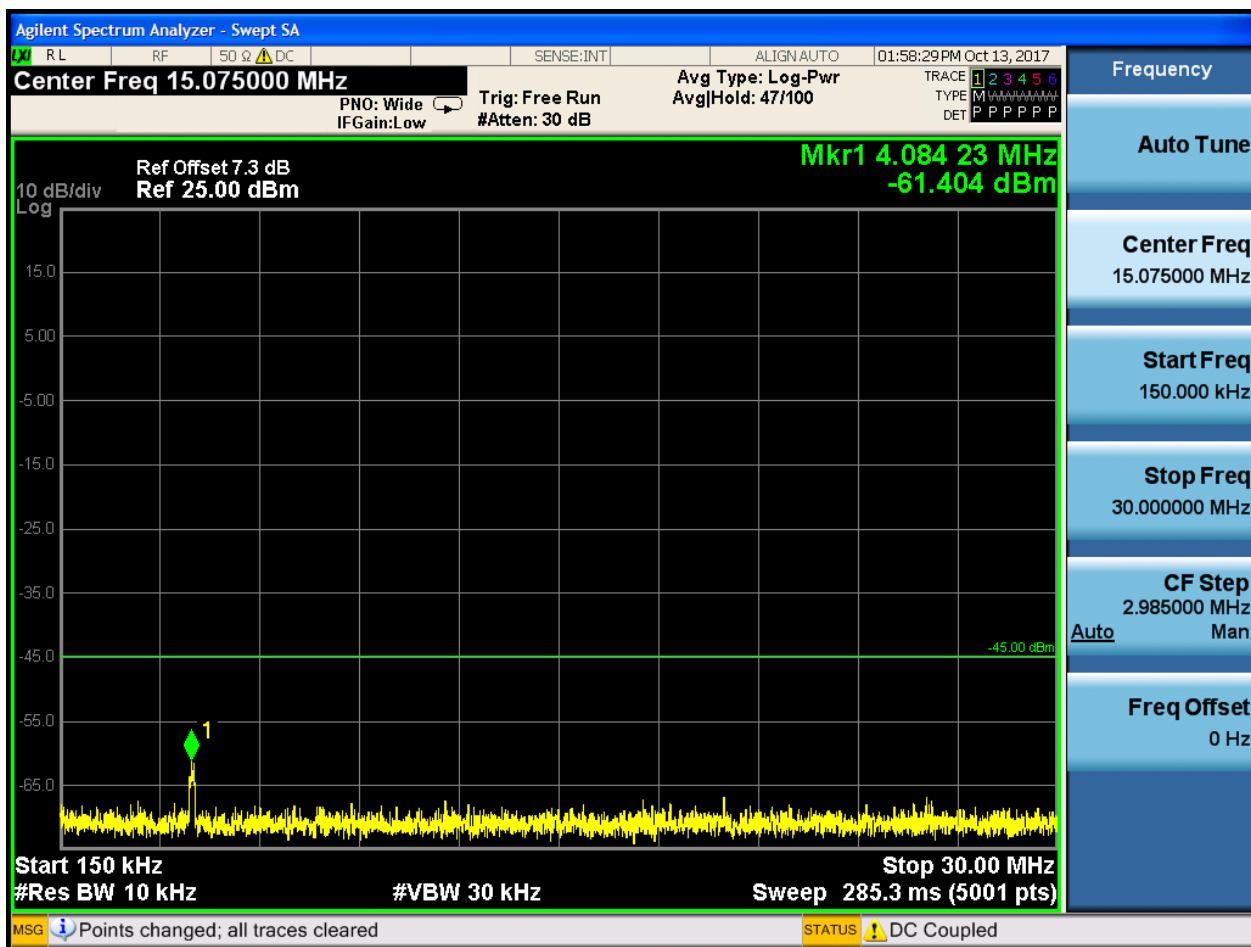


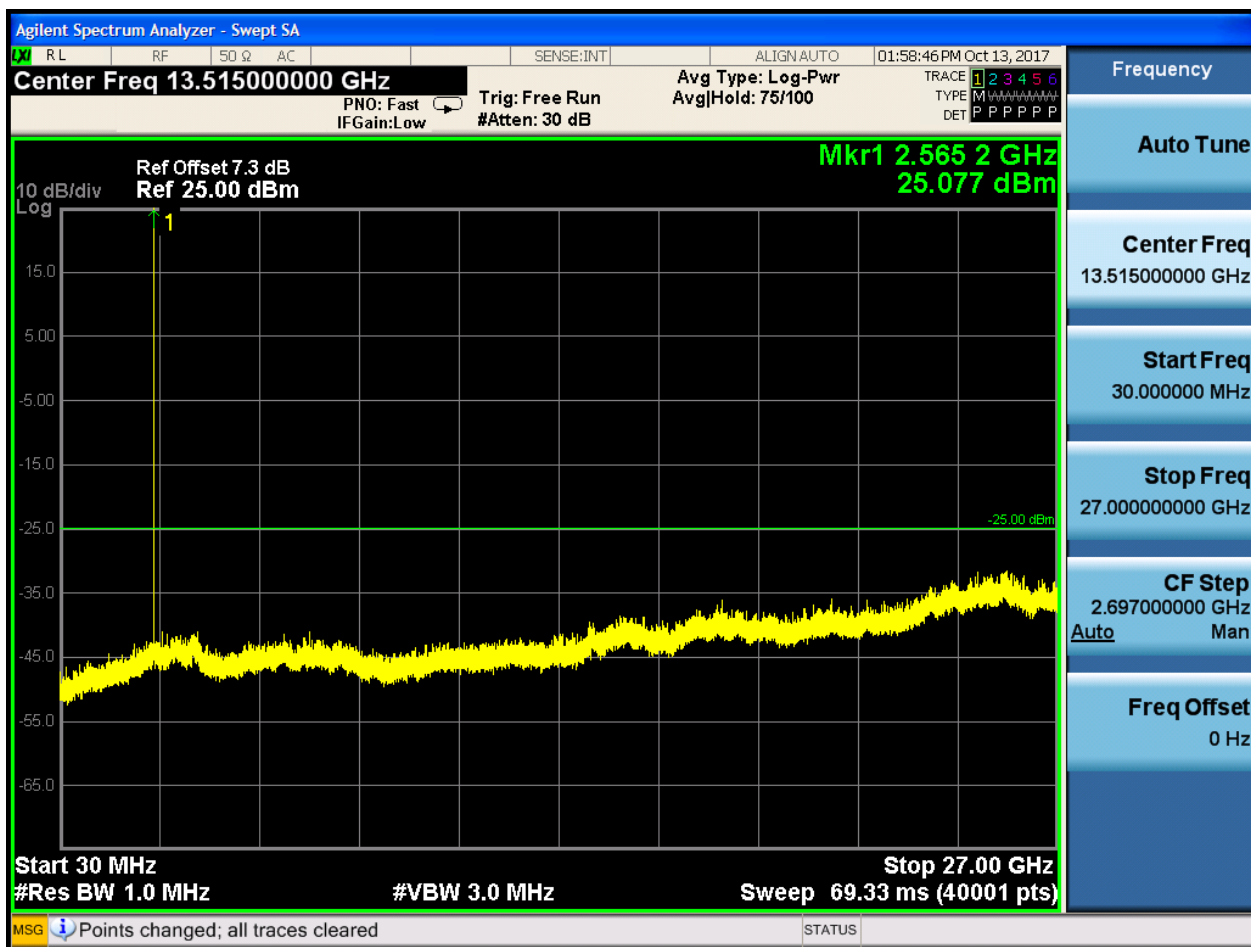


6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0

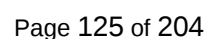


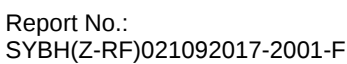


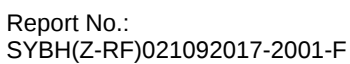




6.1.1.1.2.1.1 Test RB = RB1#0

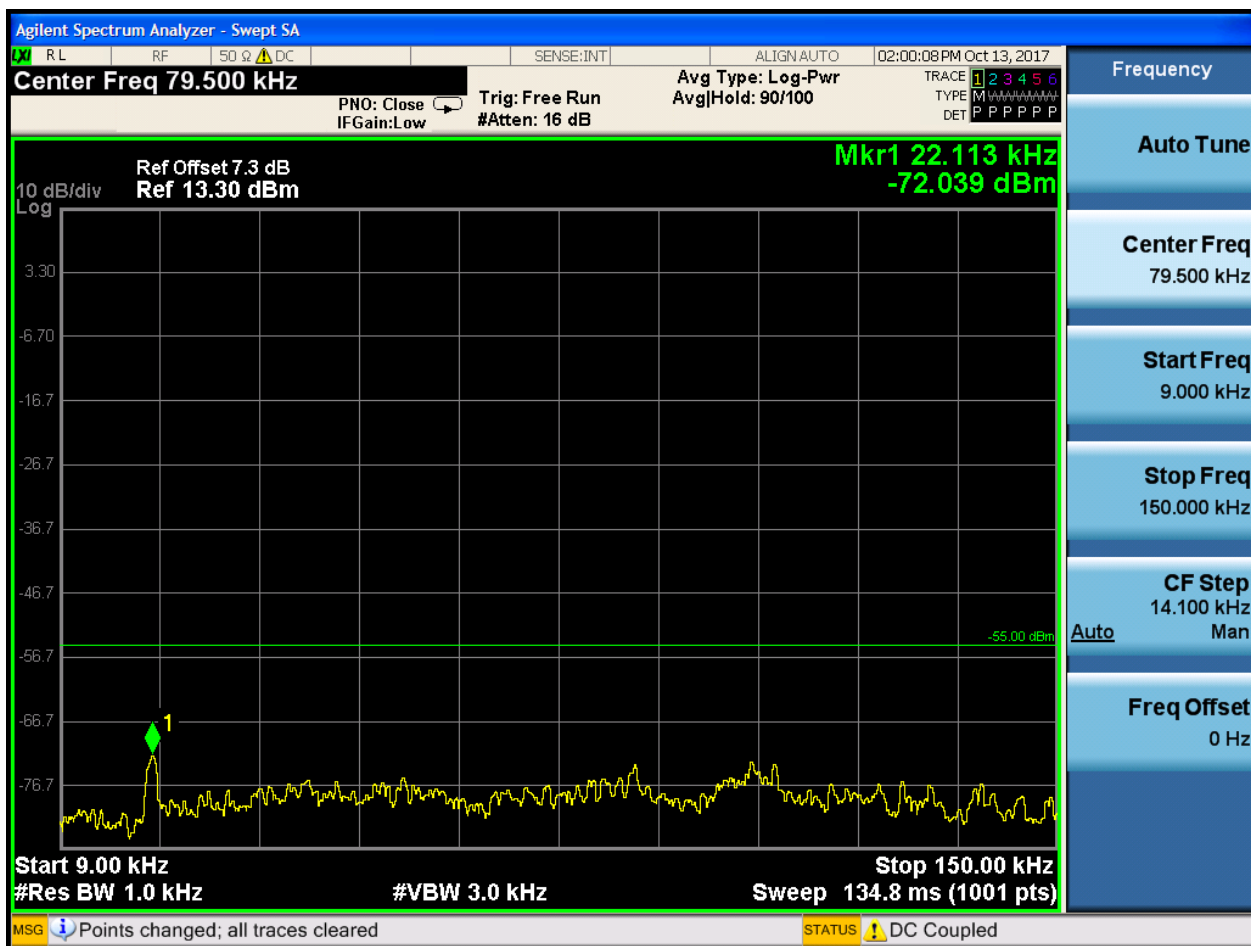


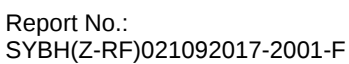


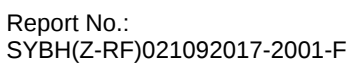


6.1.1.1.2.2 Test Channel = MCH

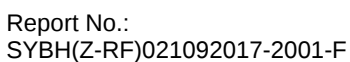
6.1.1.1.2.2.1 Test RB = RB1#0

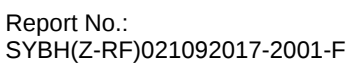








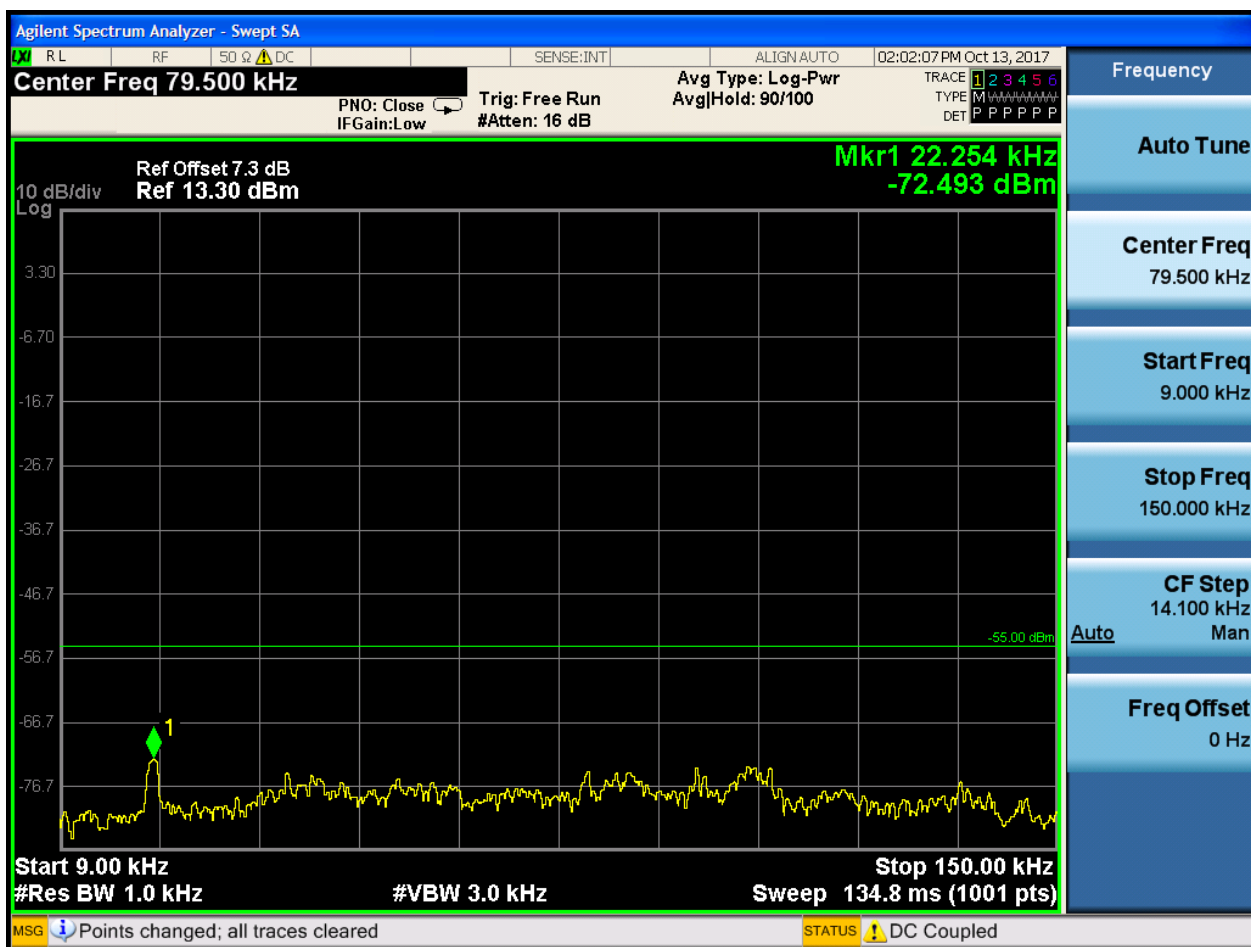


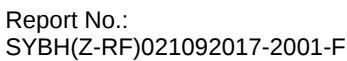


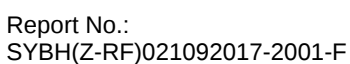
6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

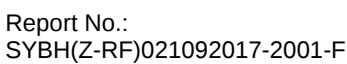
6.1.1.1.3.1.1 Test RB = RB1#0

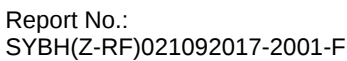




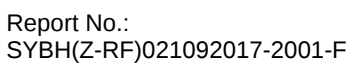


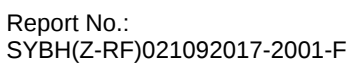








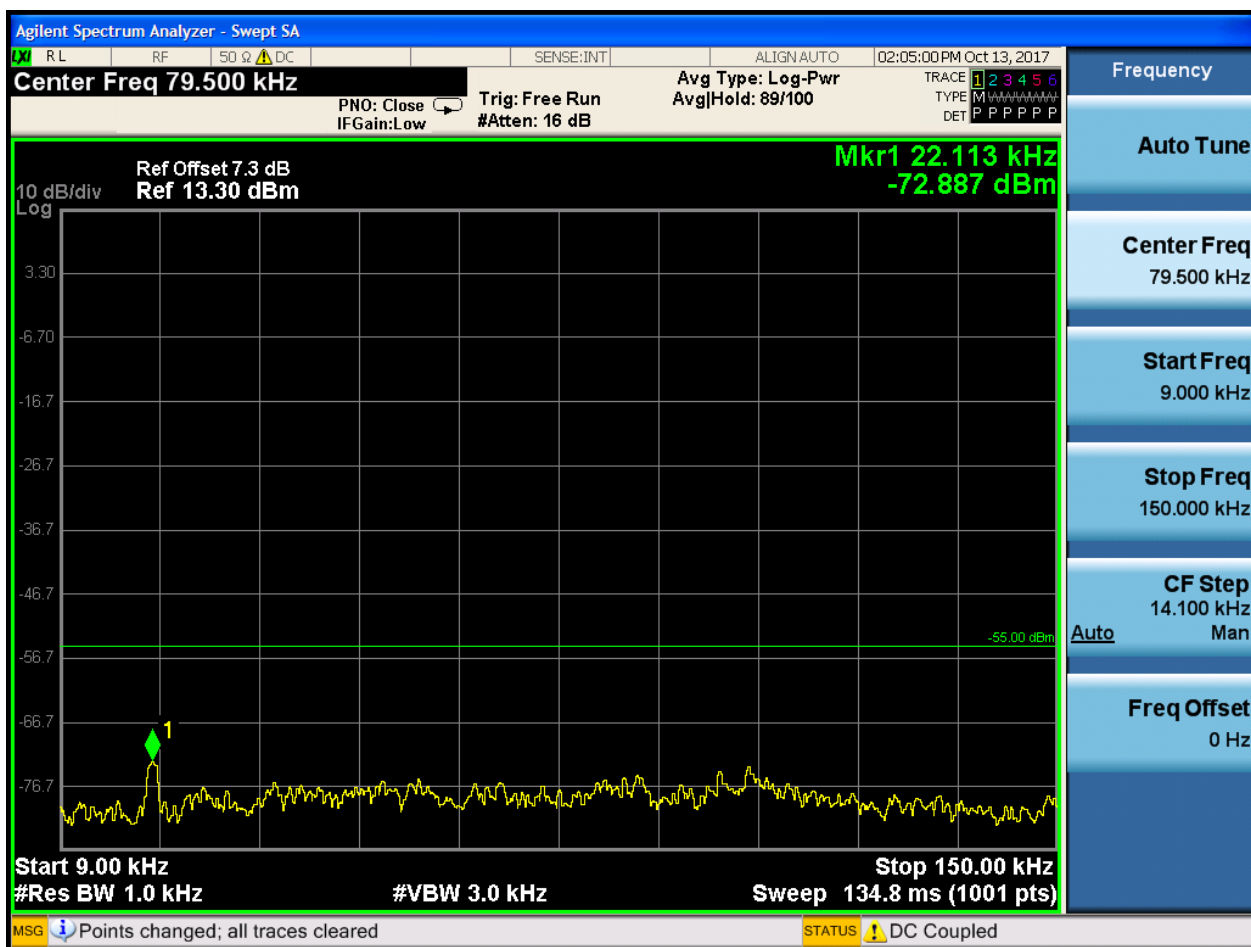


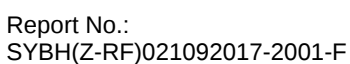


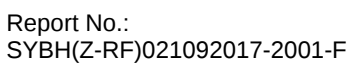
6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0

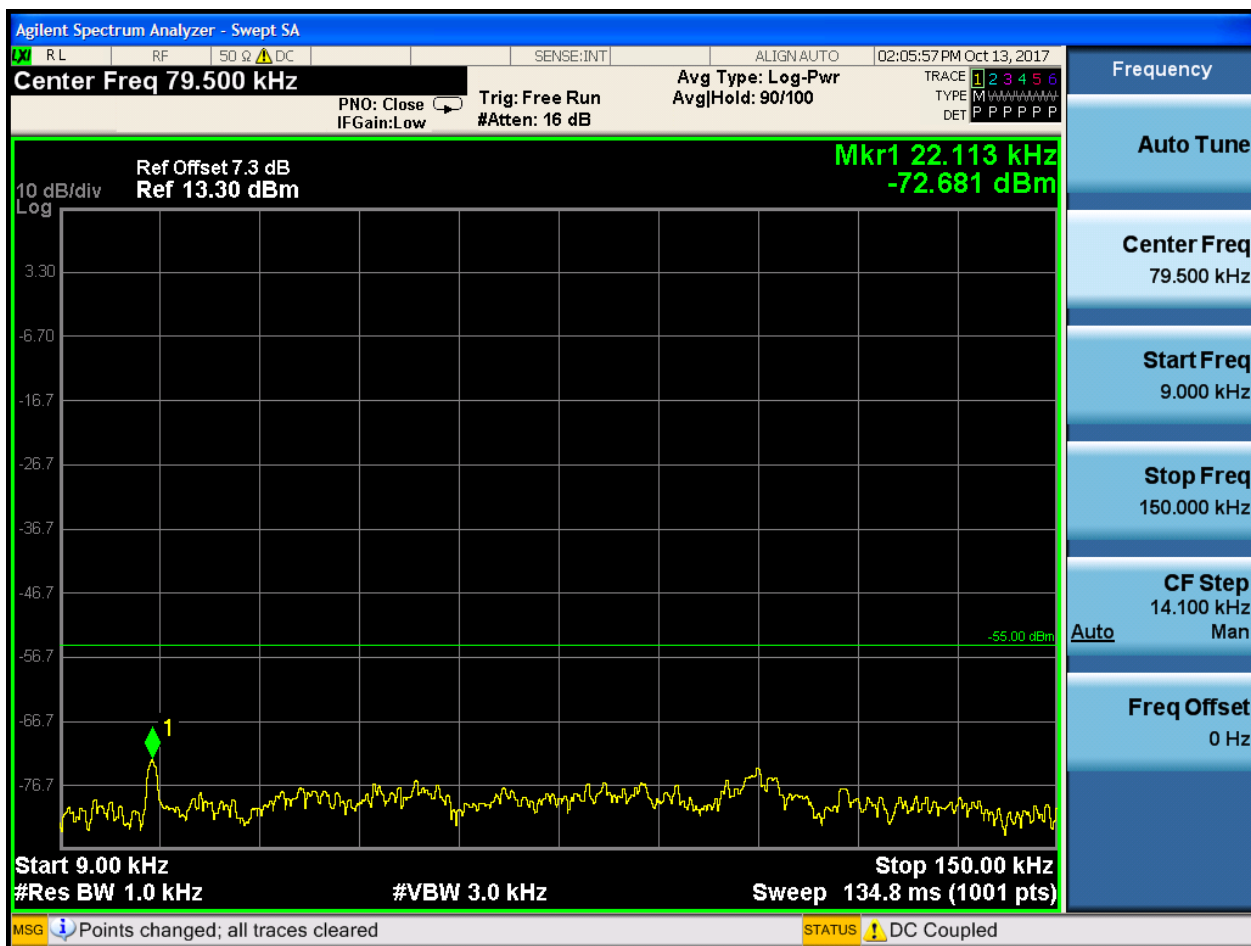






6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0

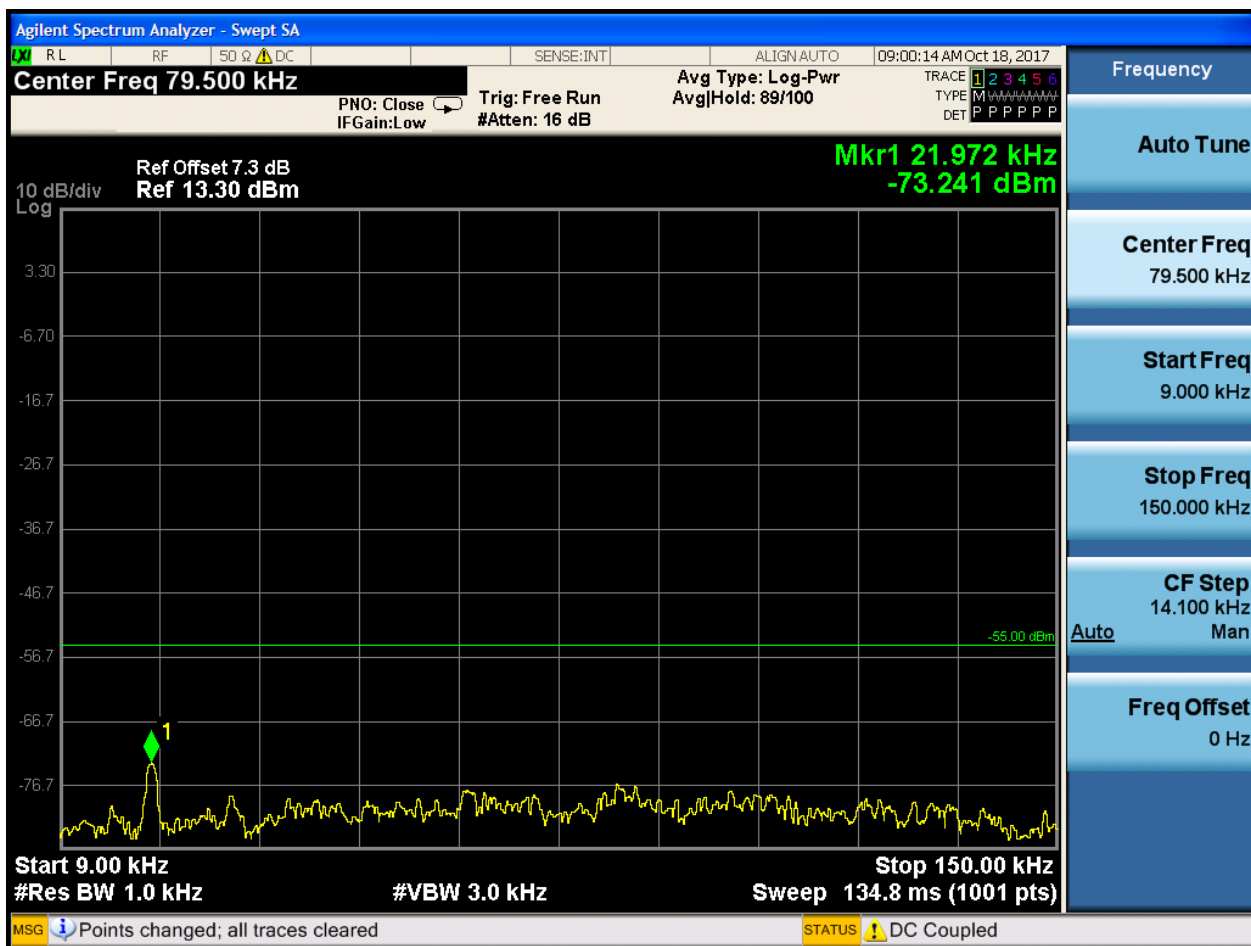


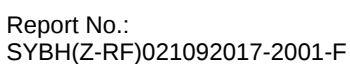


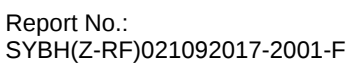


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0





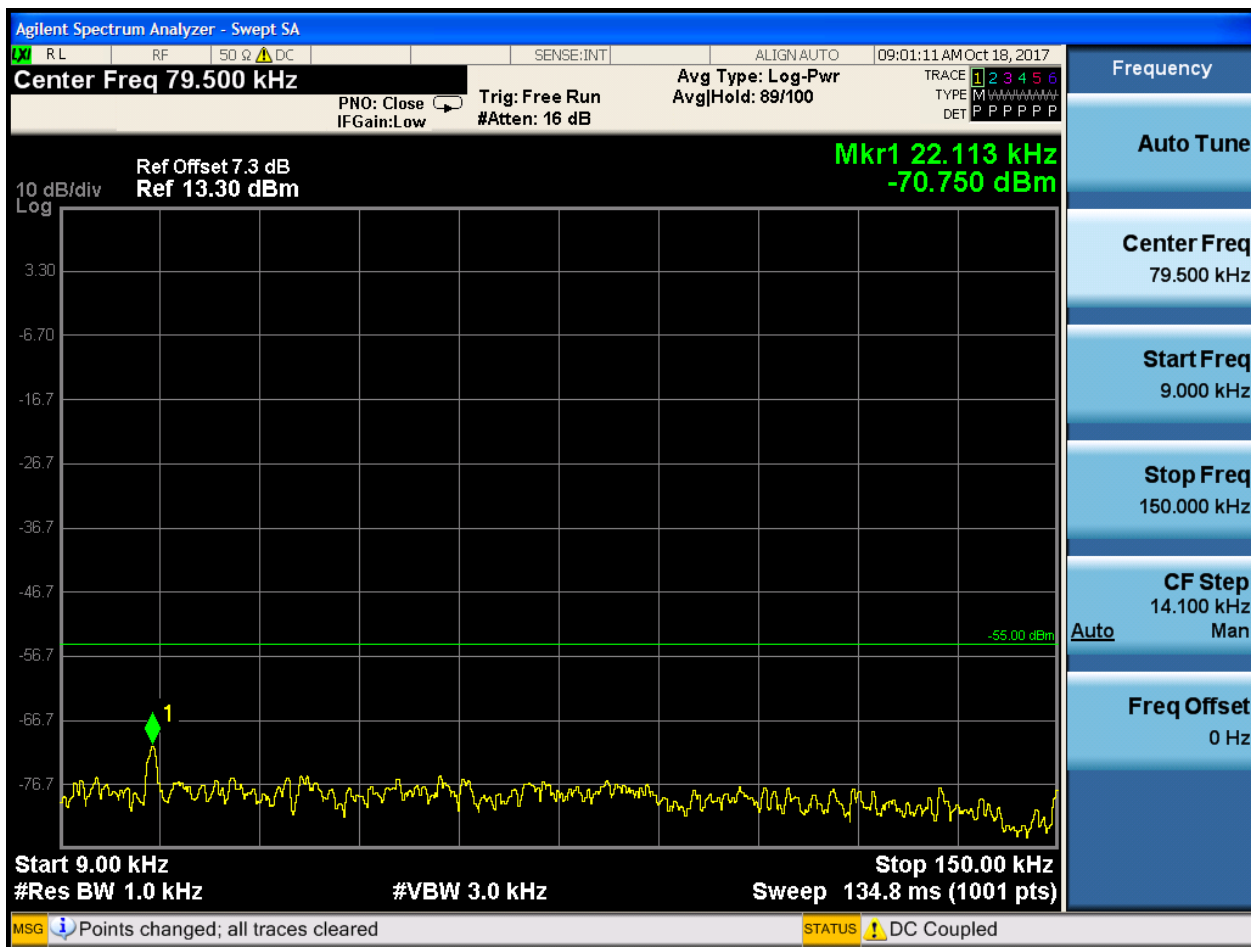


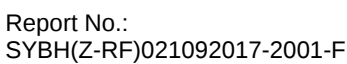
6.1.1.2 Test Mode = LTE/TM2

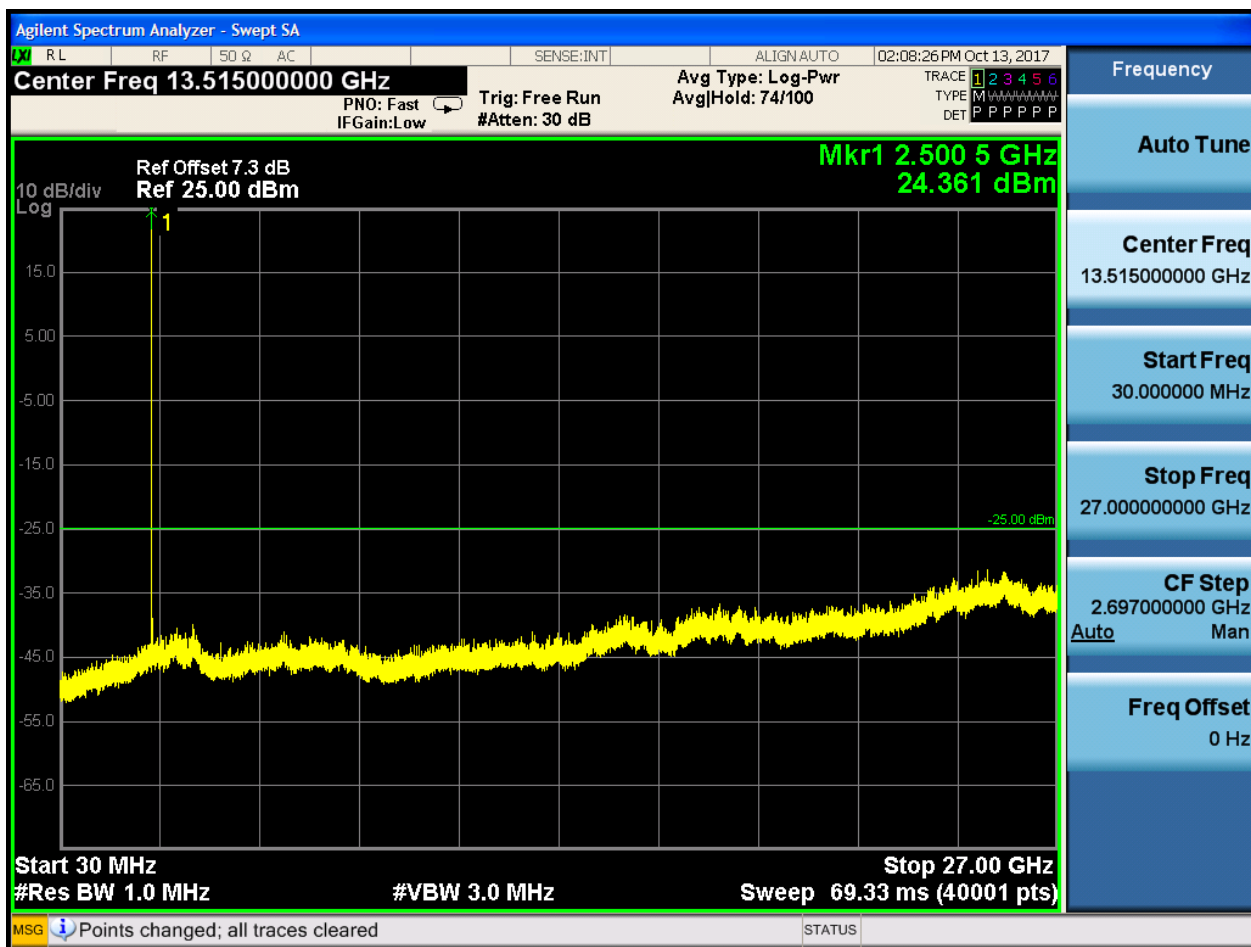
6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

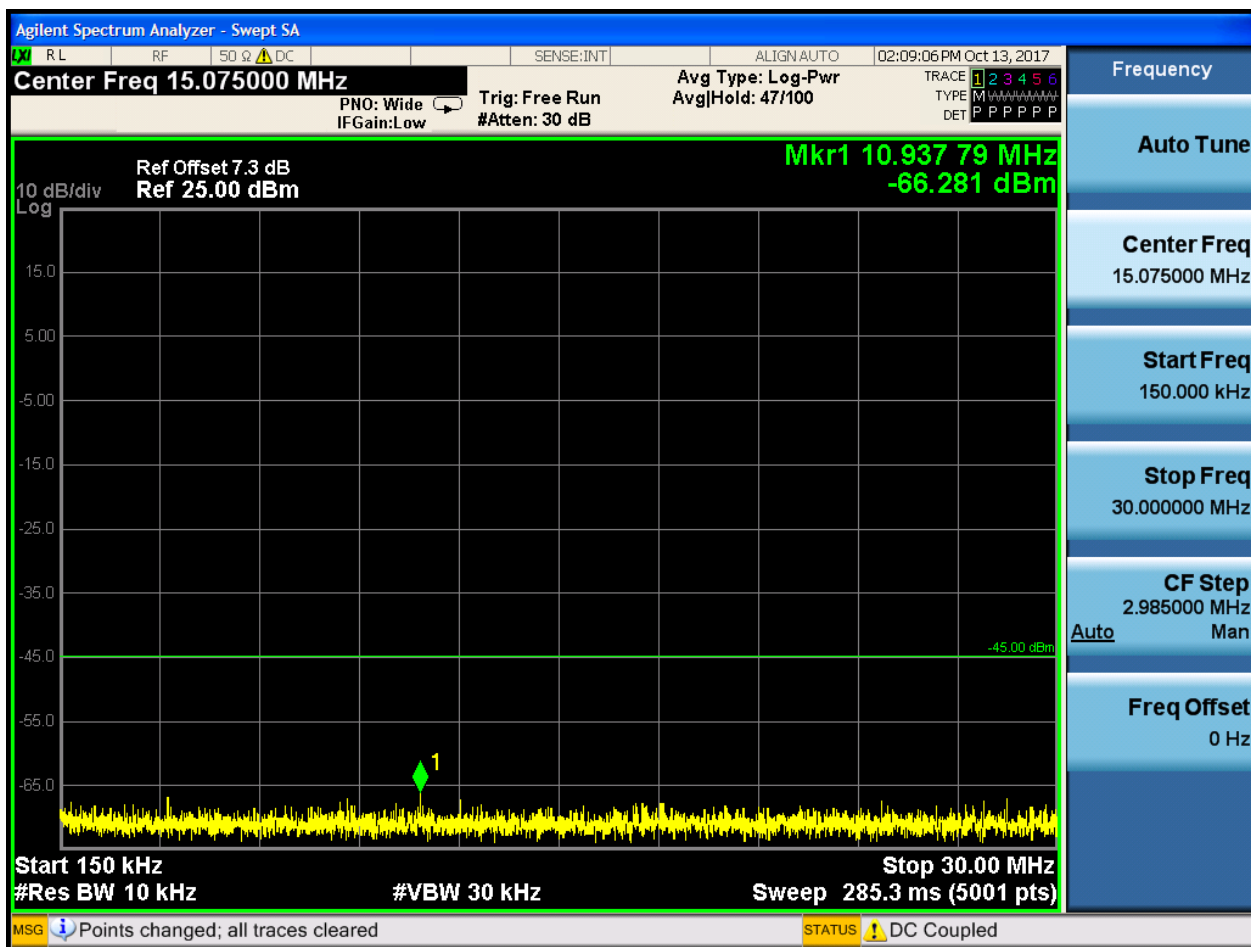
6.1.1.2.1.1.1 Test RB = RB1#0

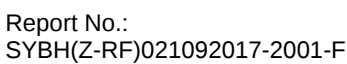






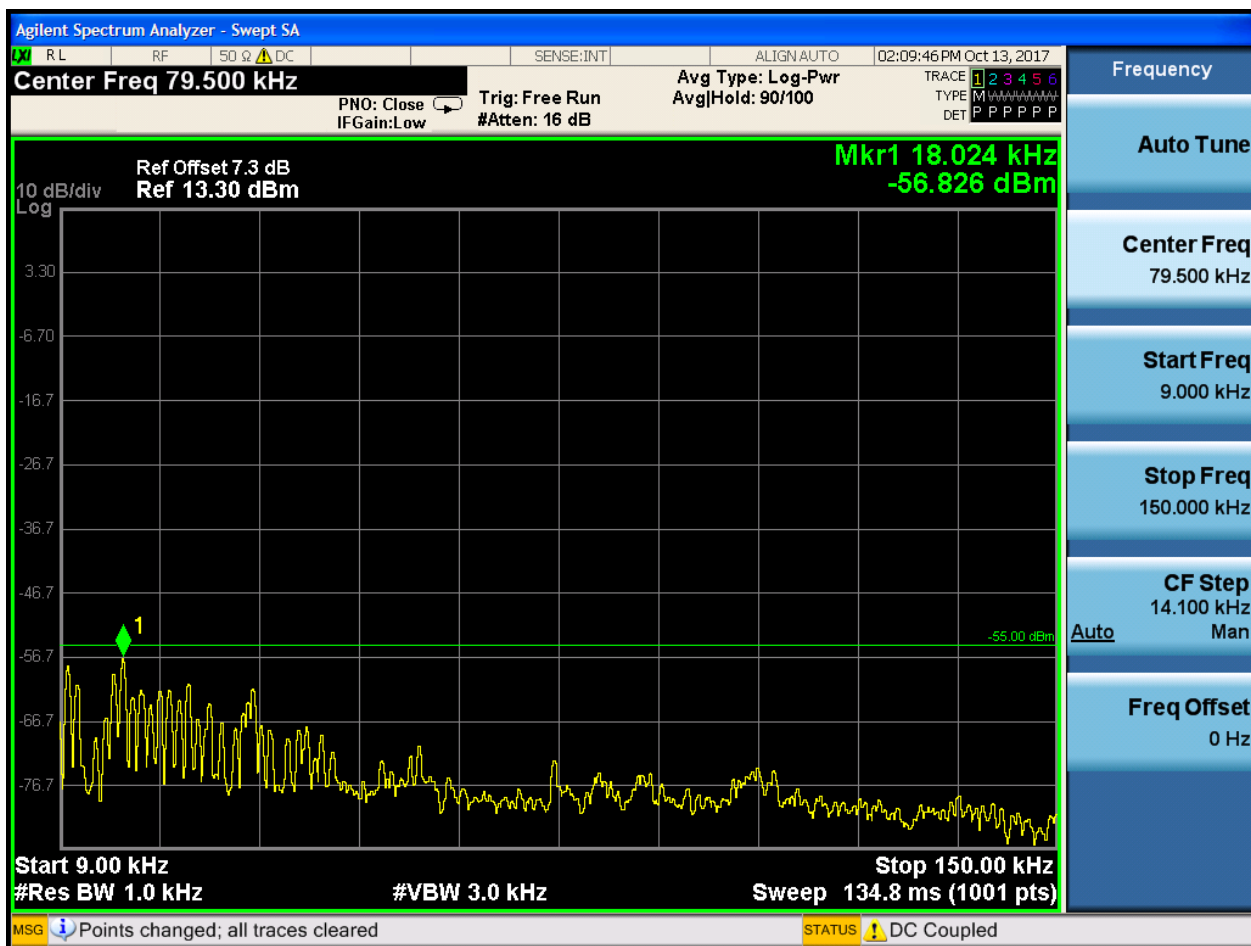


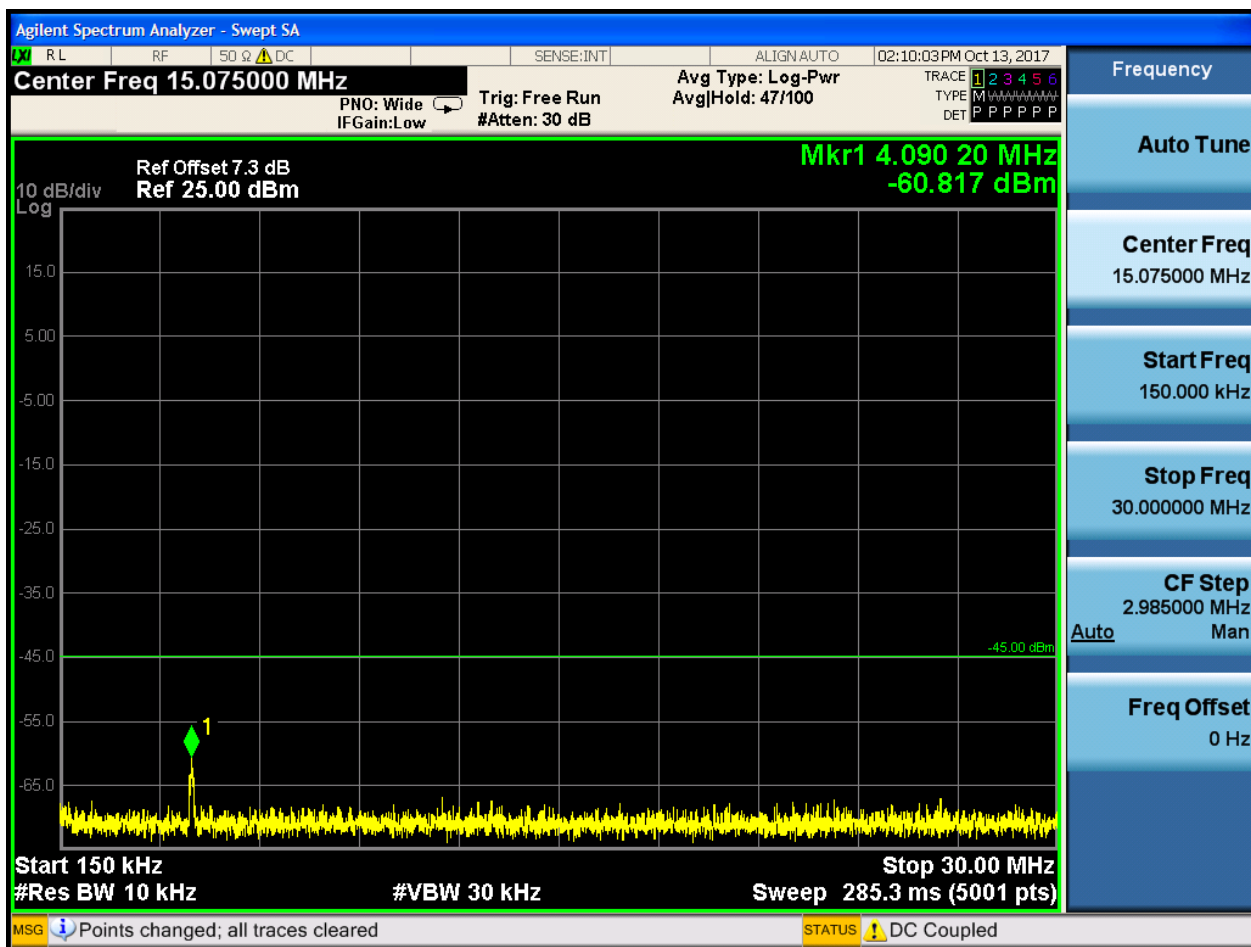


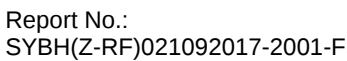


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



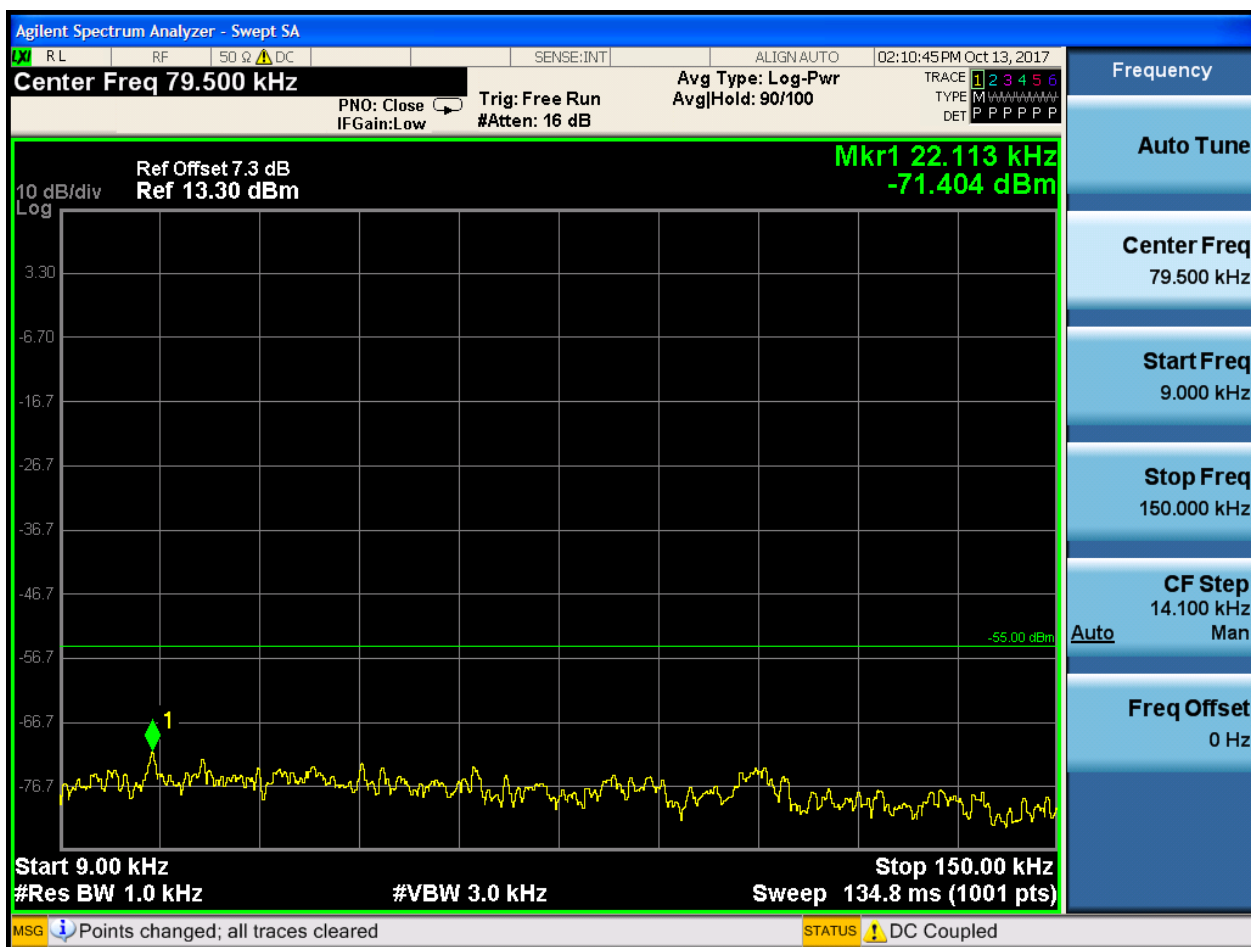


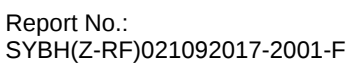


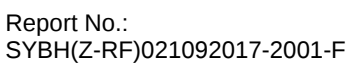
6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

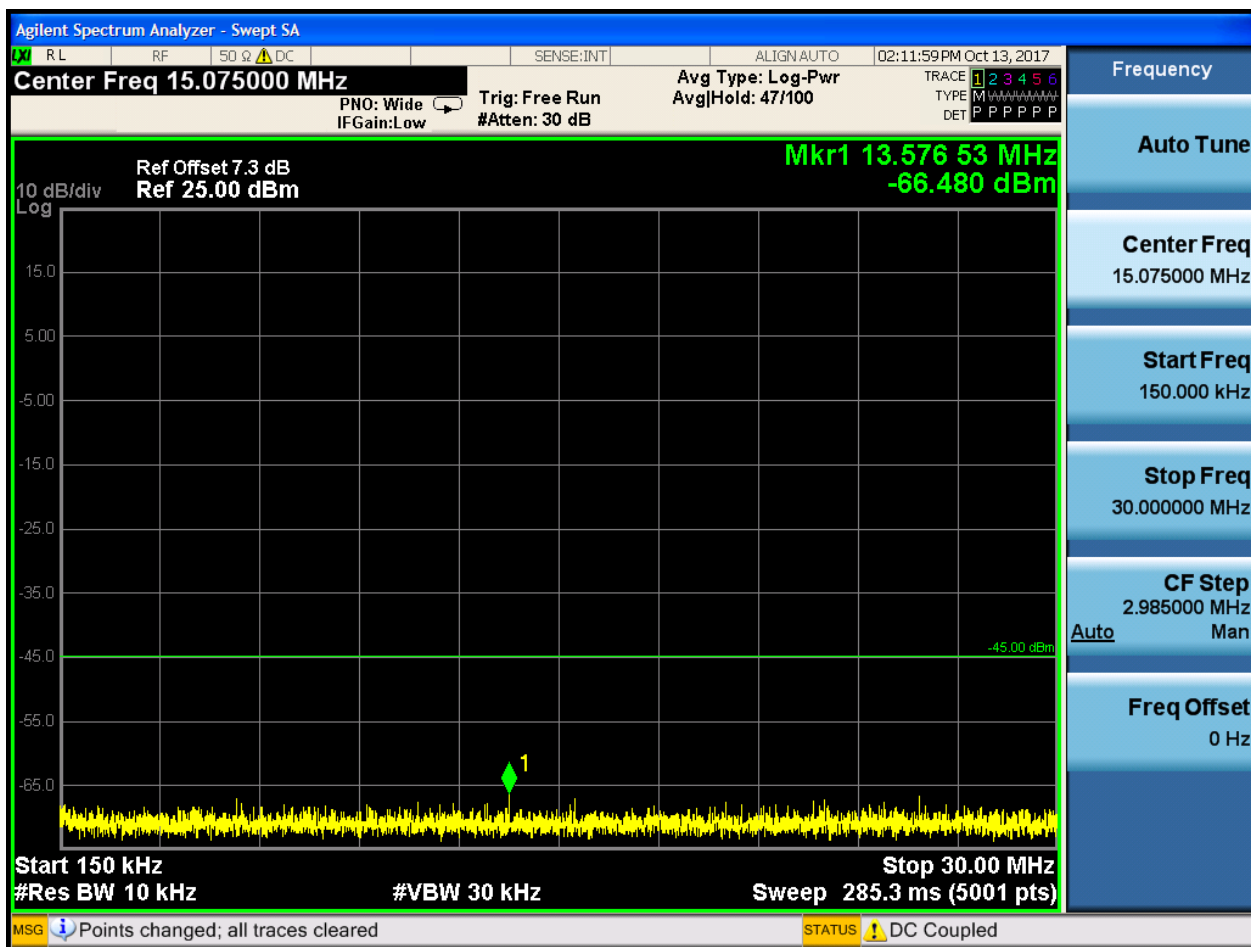
6.1.1.2.2.1.1 Test RB = RB1#0

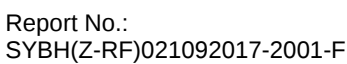






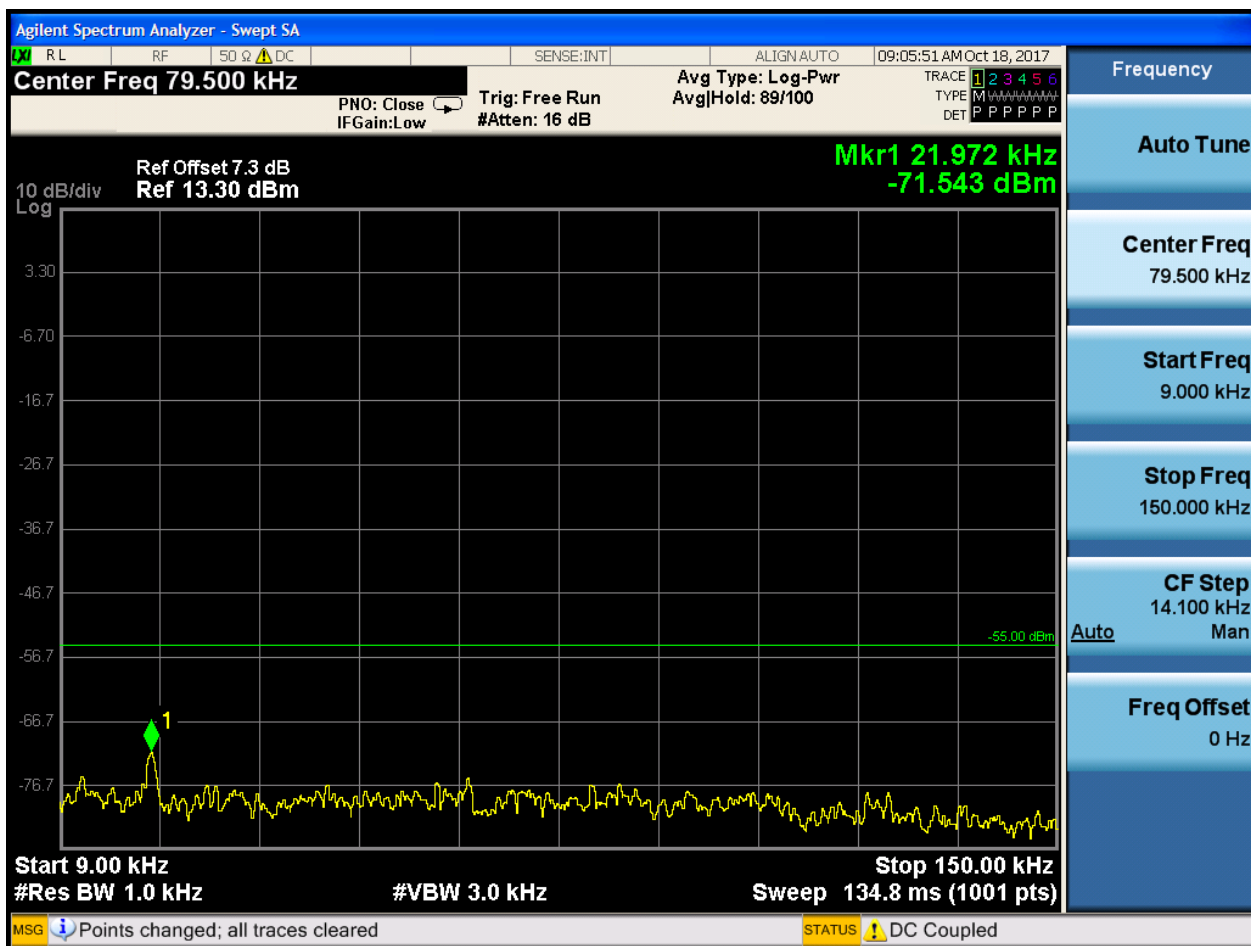


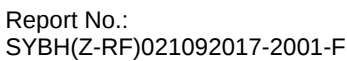


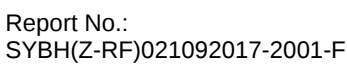


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0



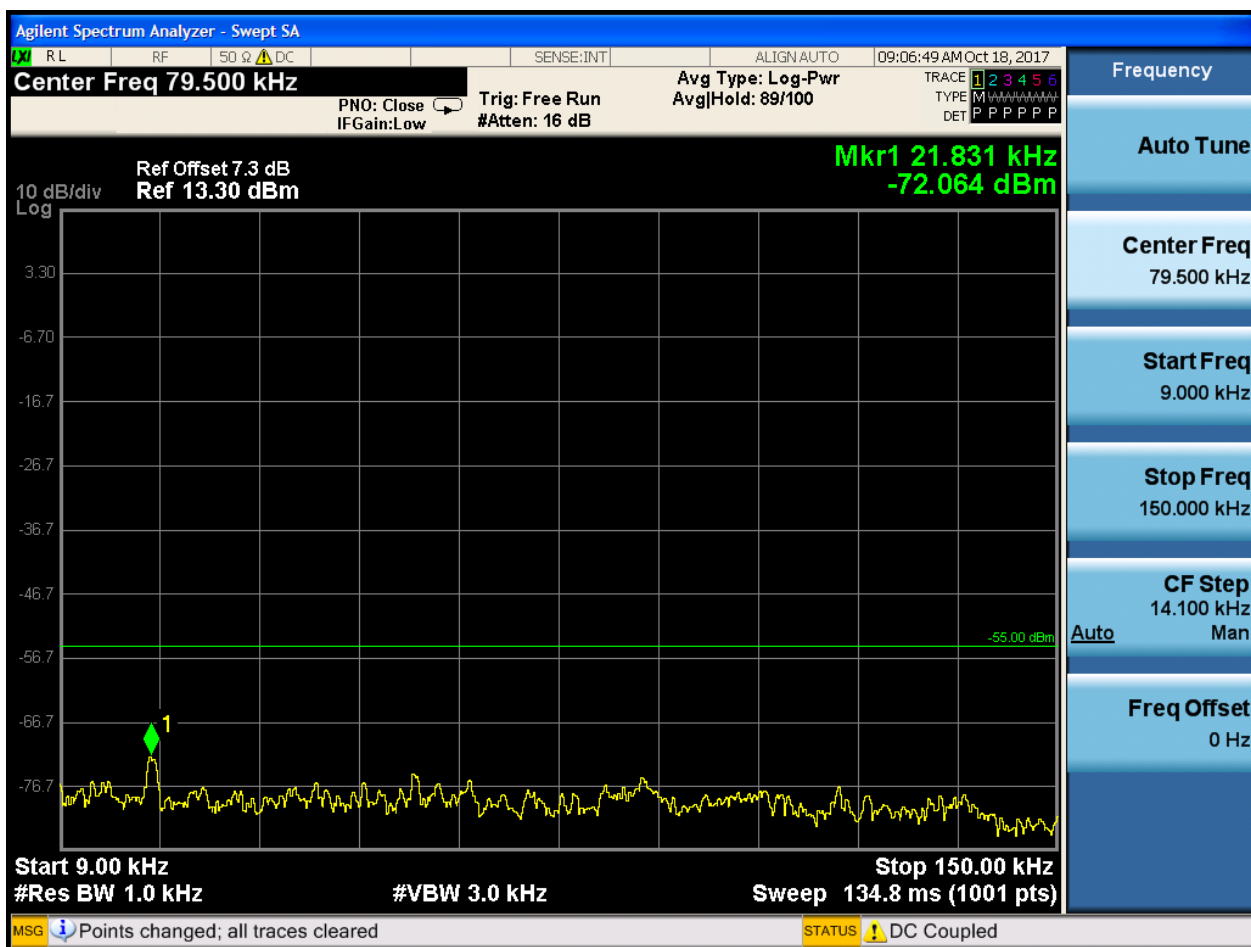


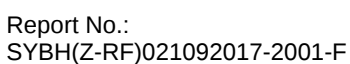


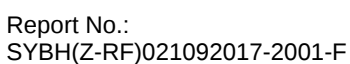
6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

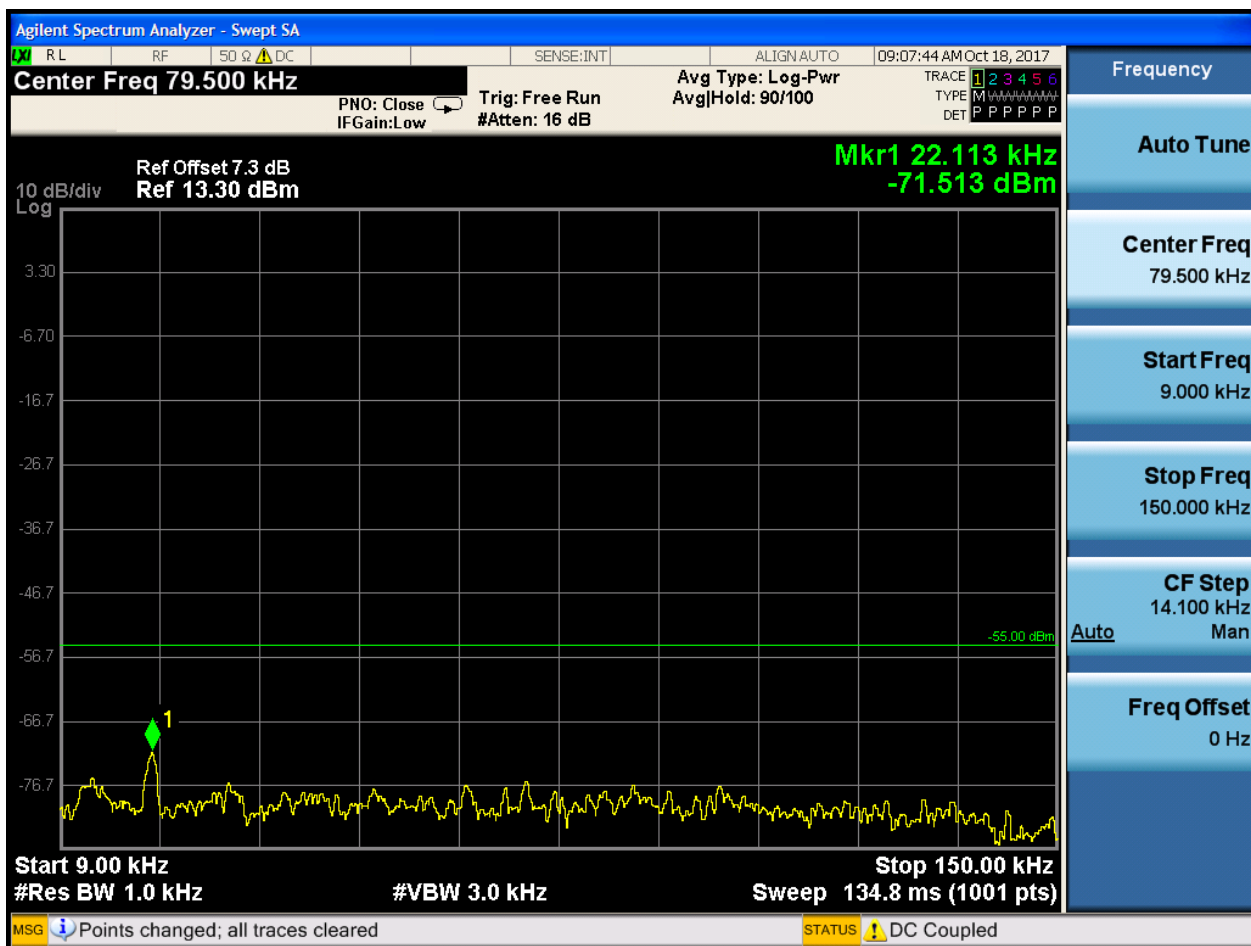


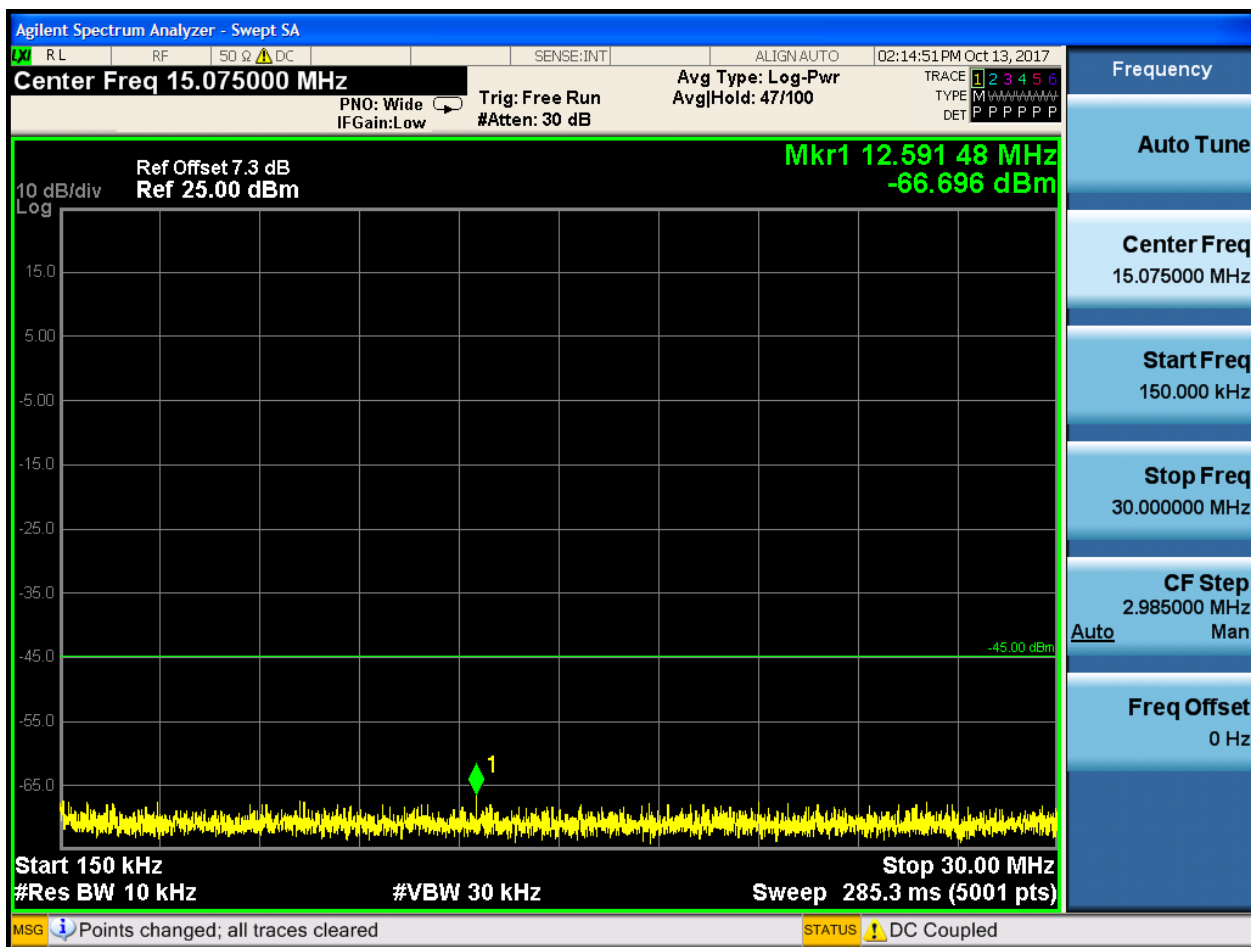


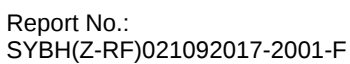


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0

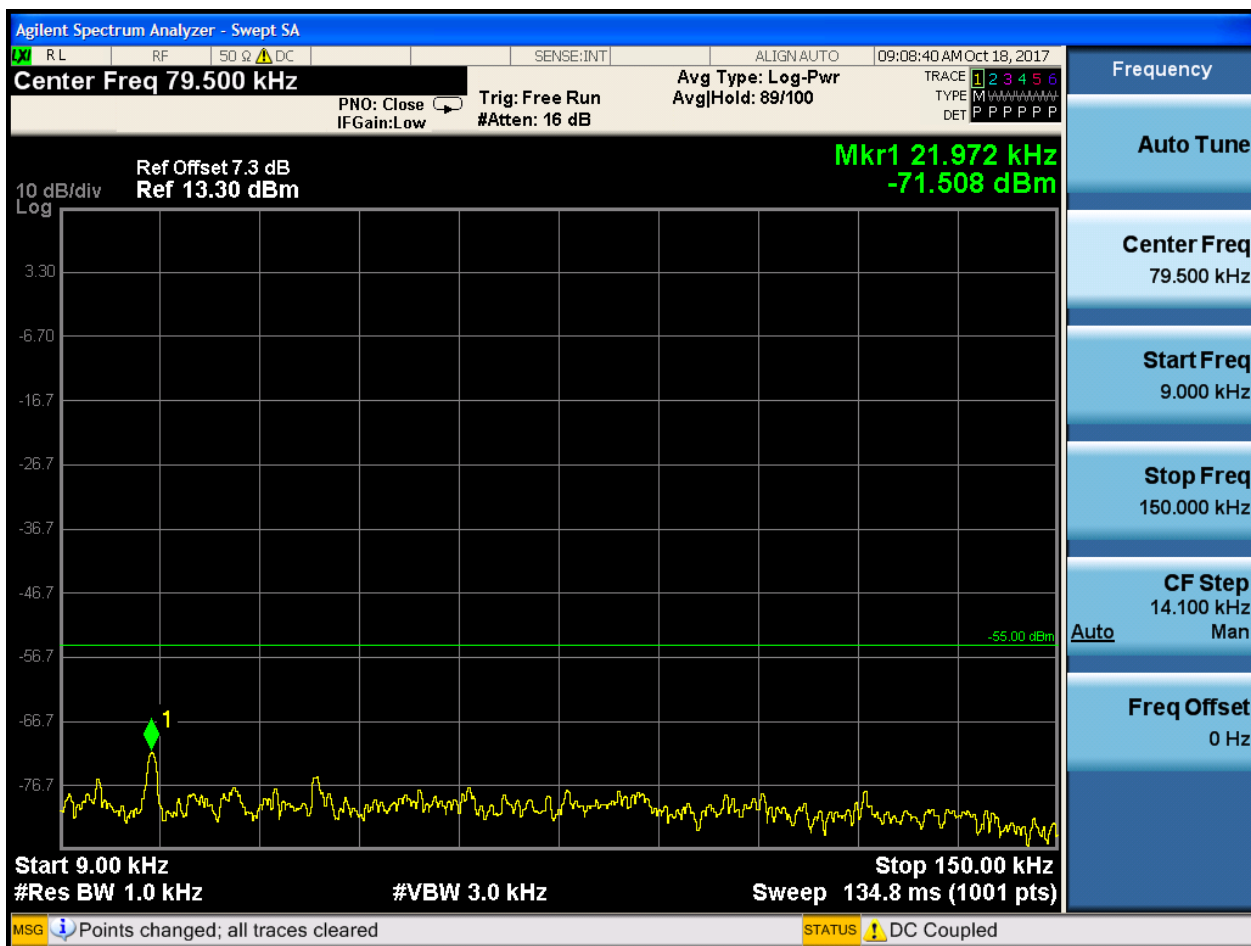


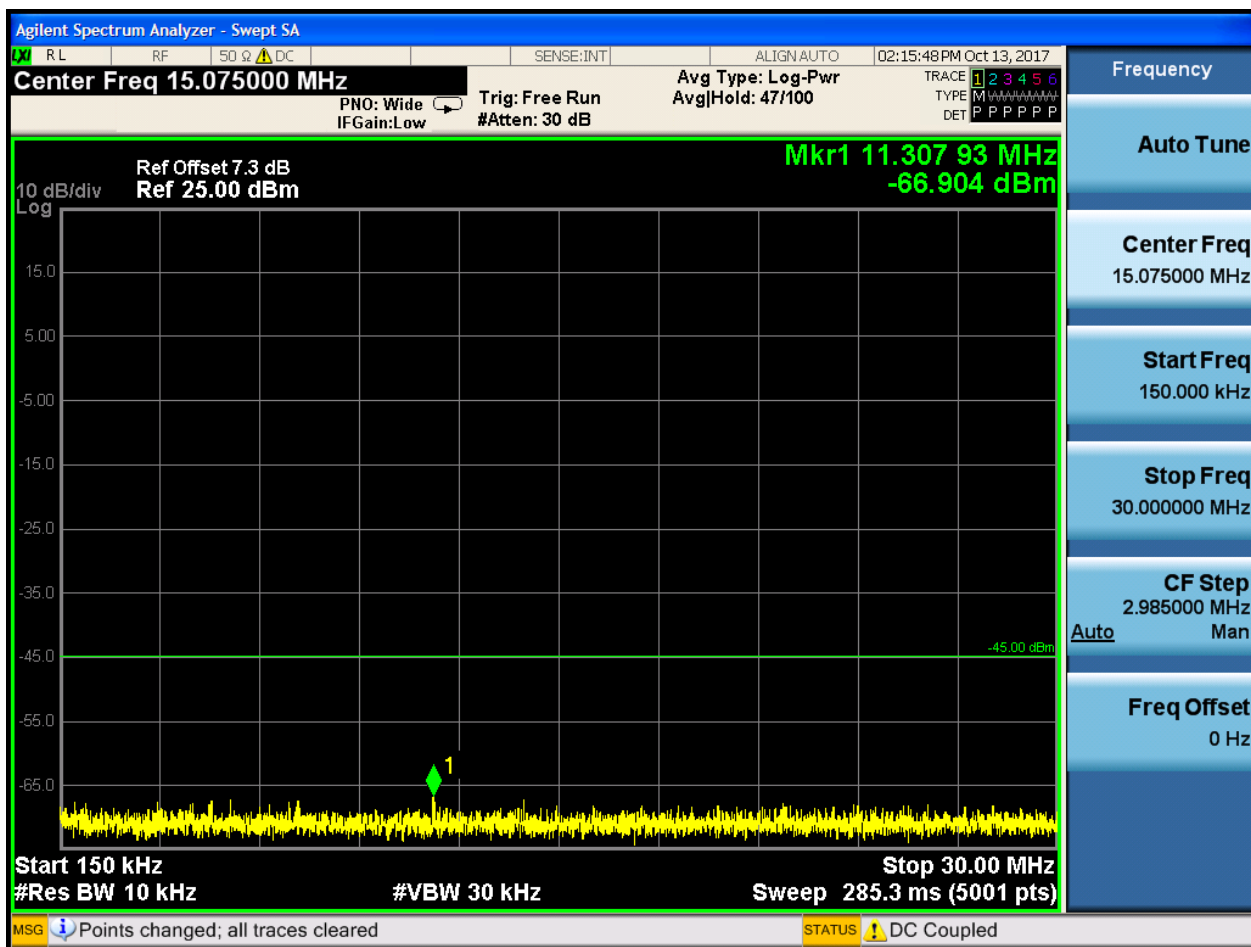


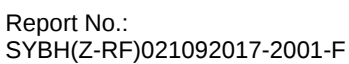


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0



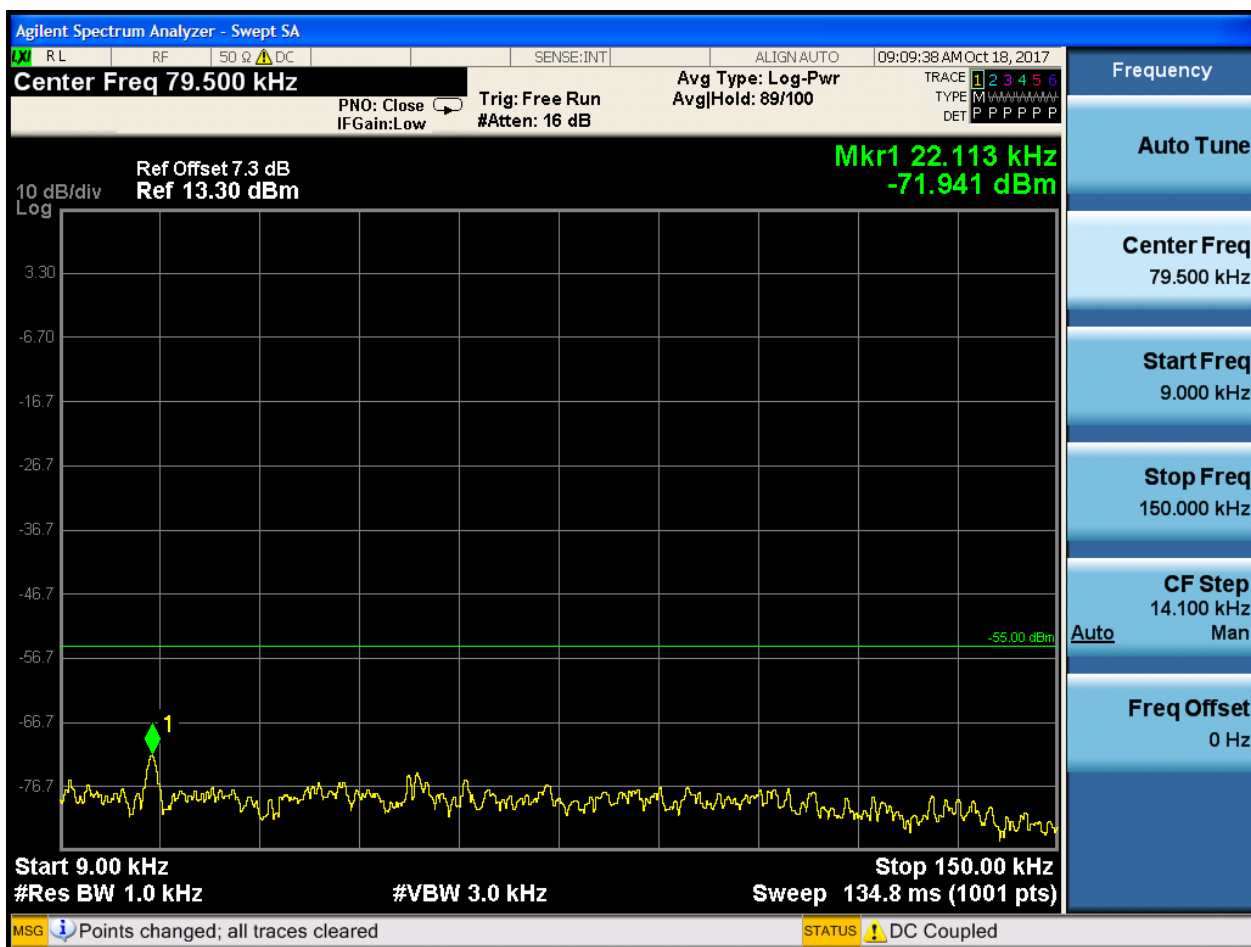


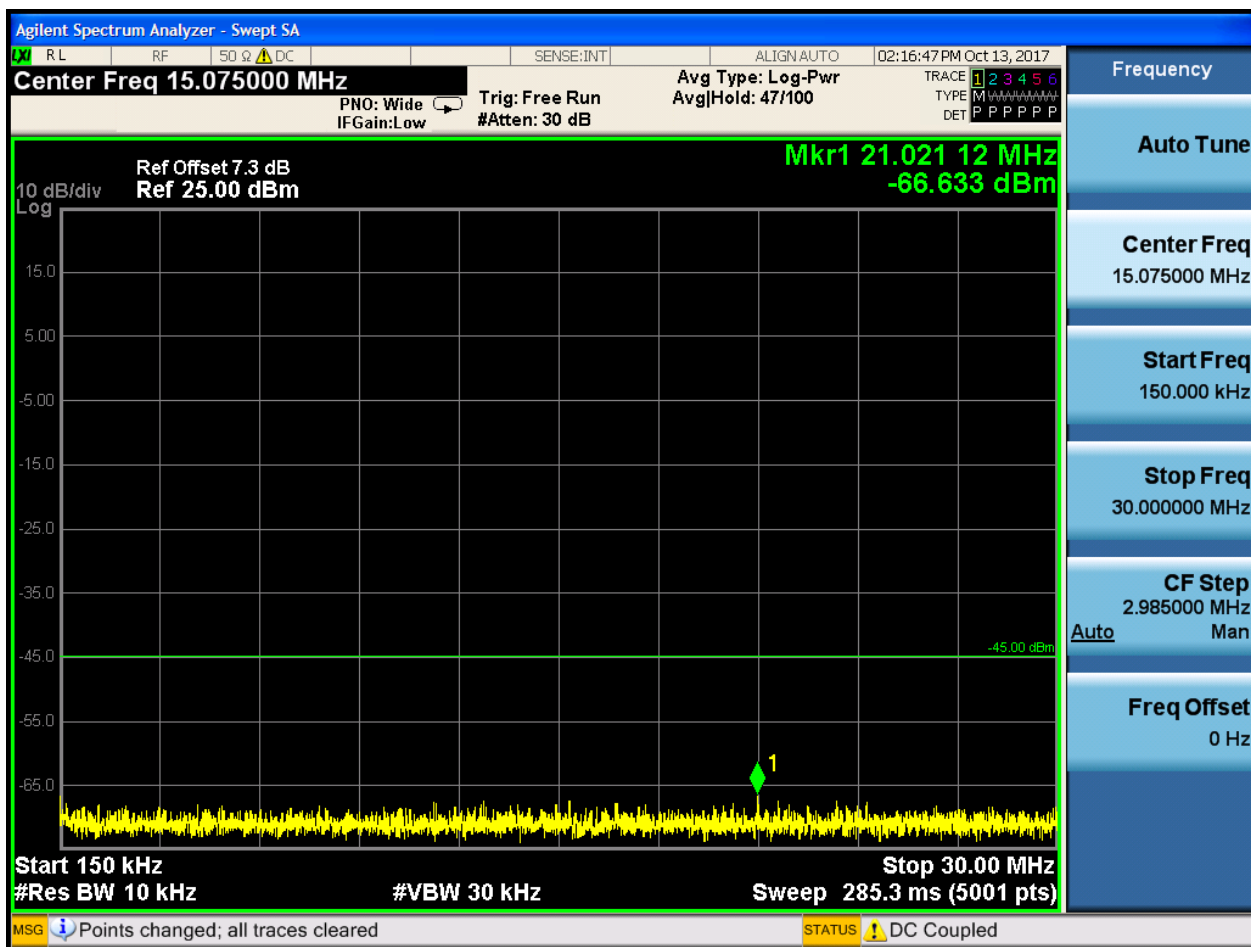


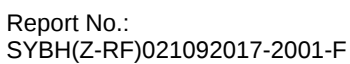
6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

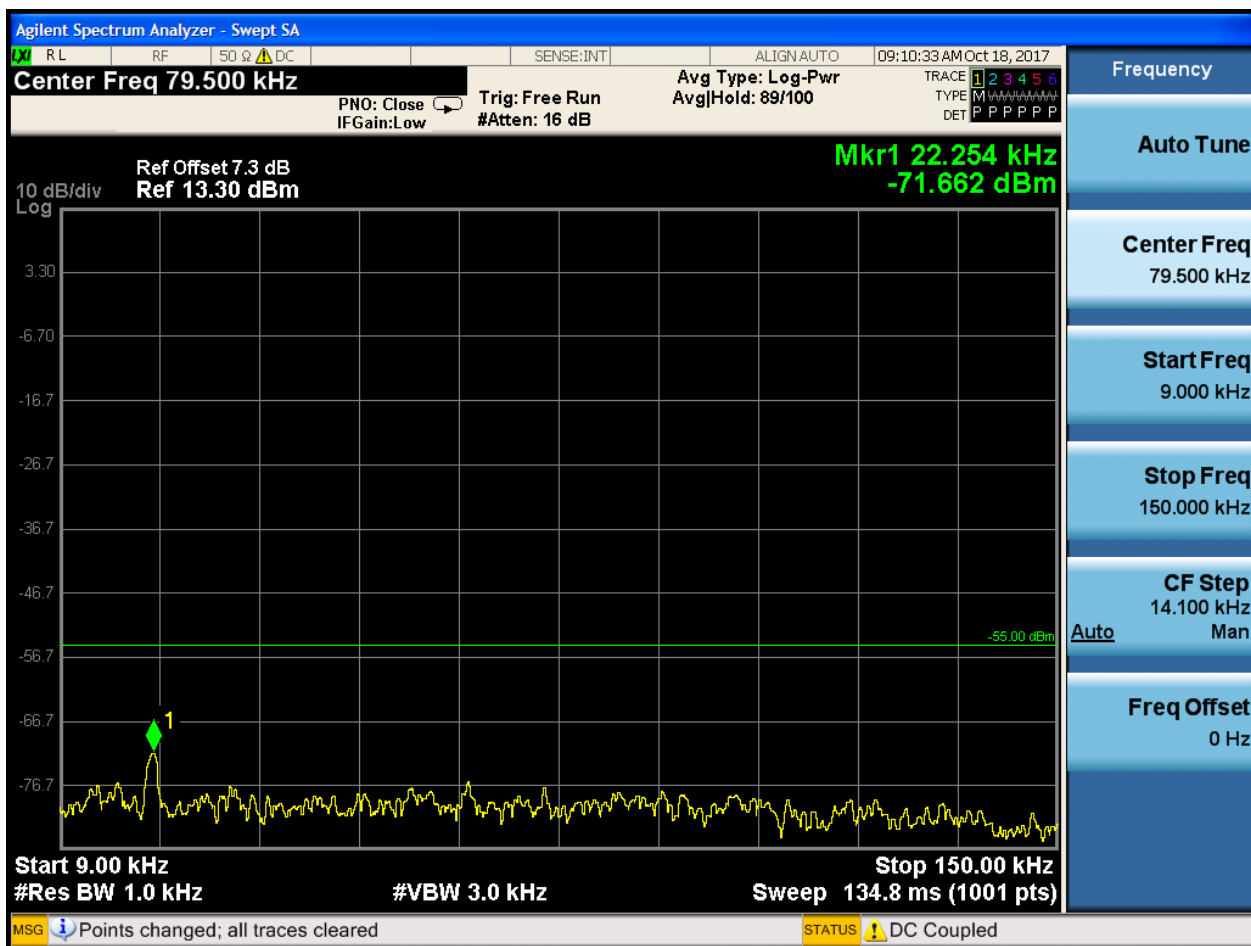


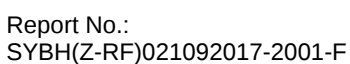


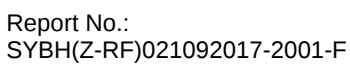


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0

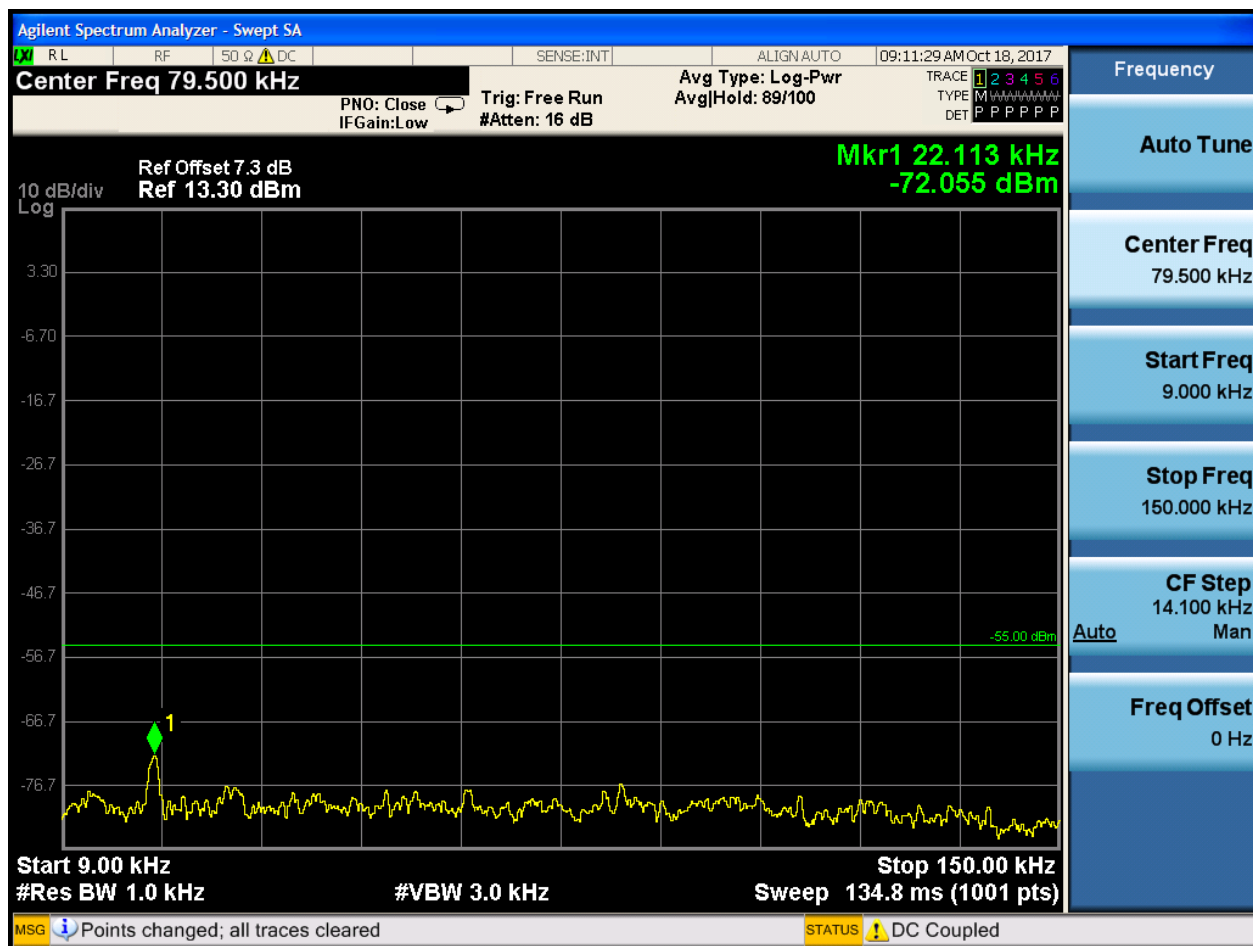


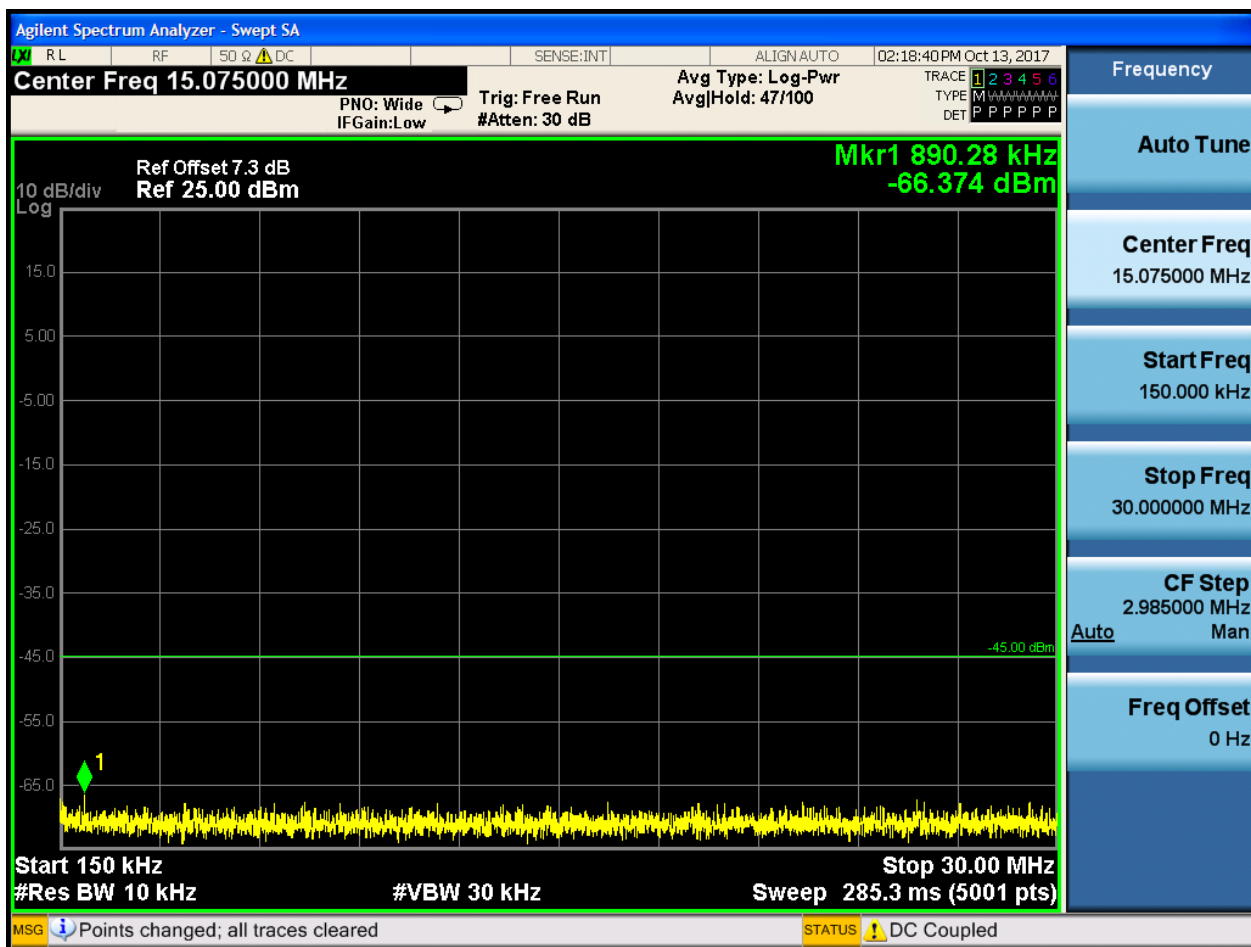


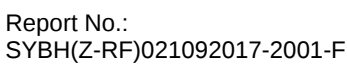


6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

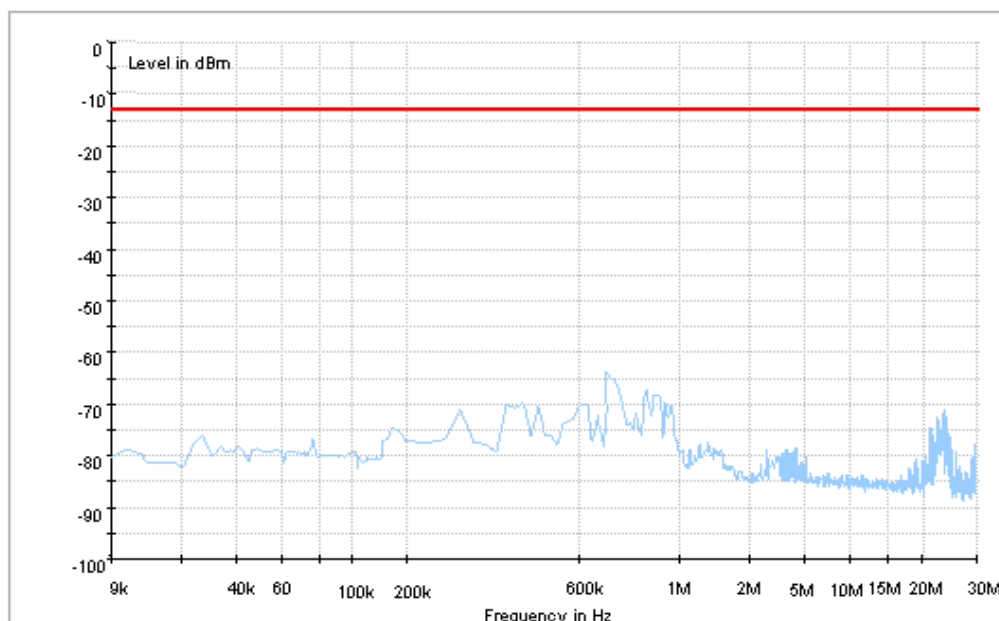
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

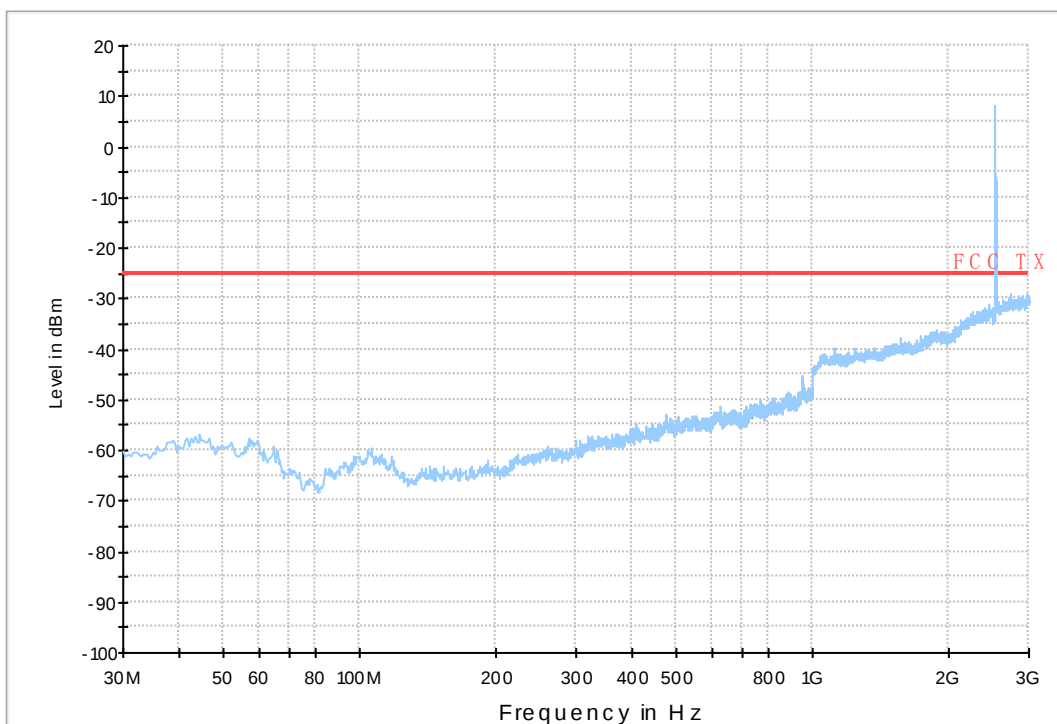
7.1 For LTE

7.1.1 Test Band = BAND7_ANT1

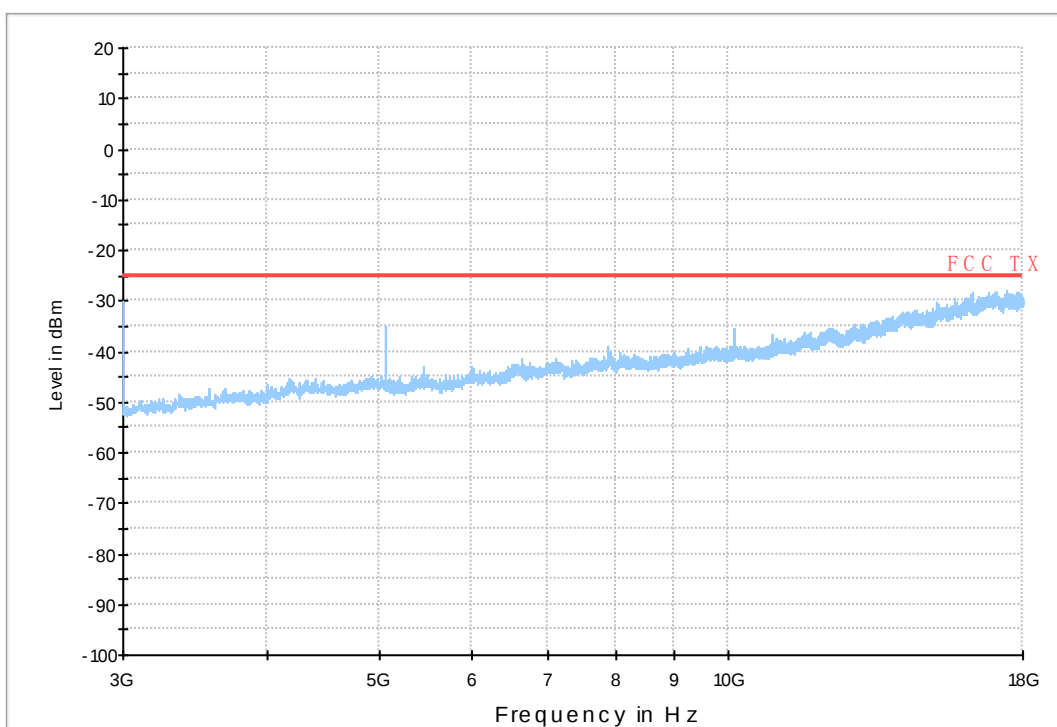
7.1.1.1 Test Bandwidth = 5

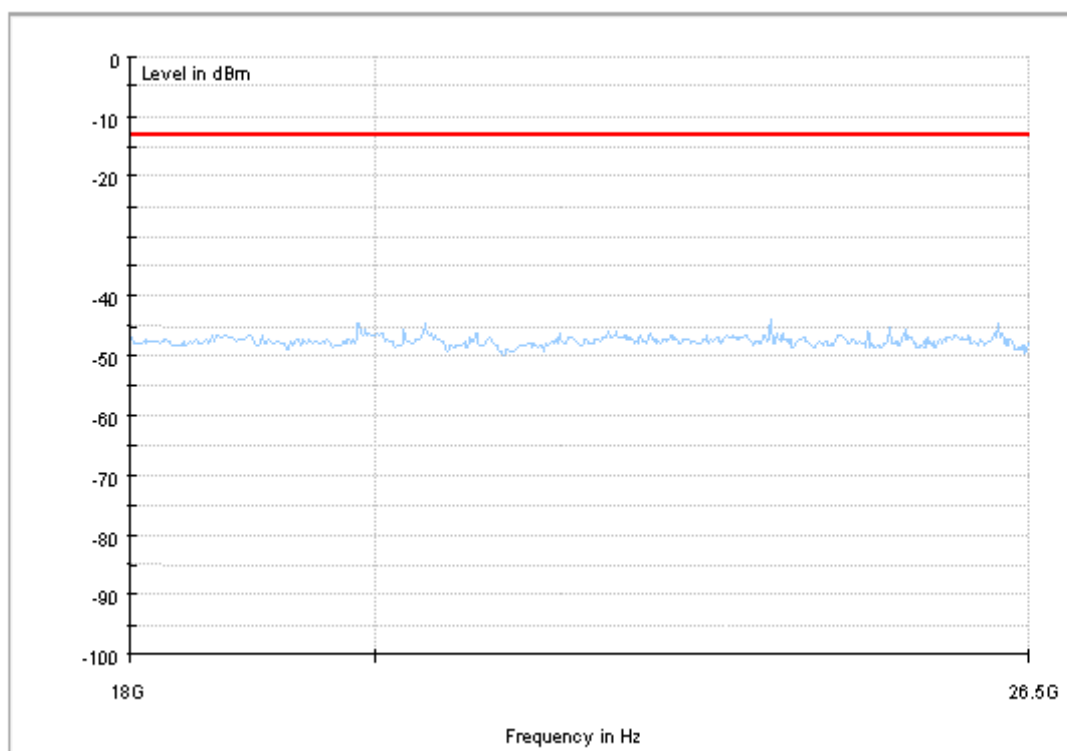


Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_L

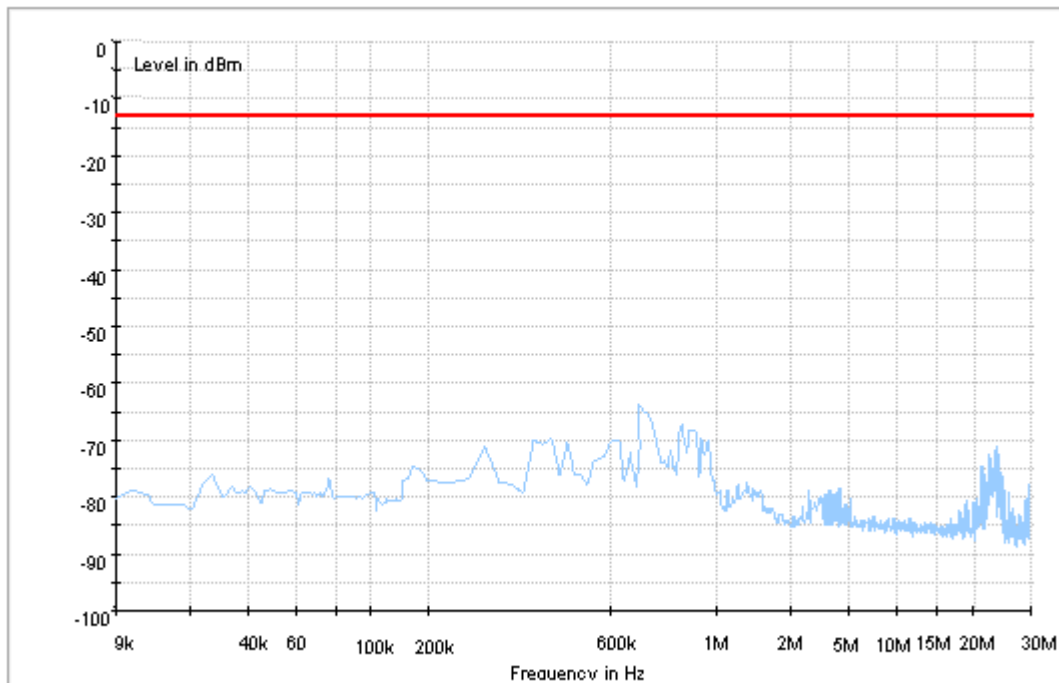


Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_H

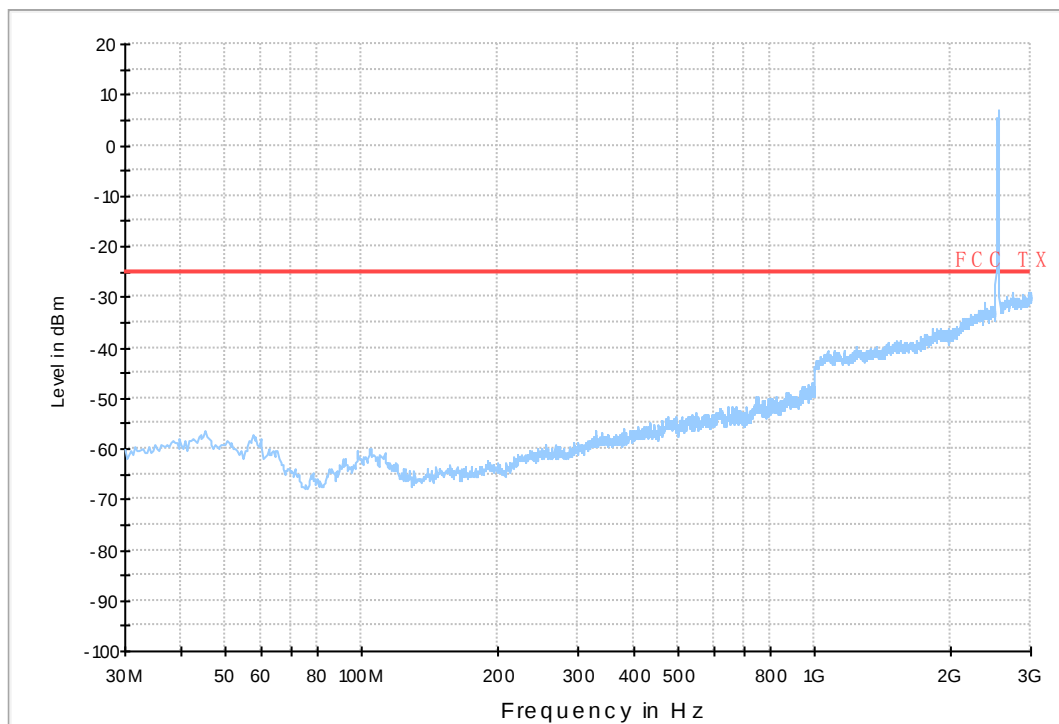




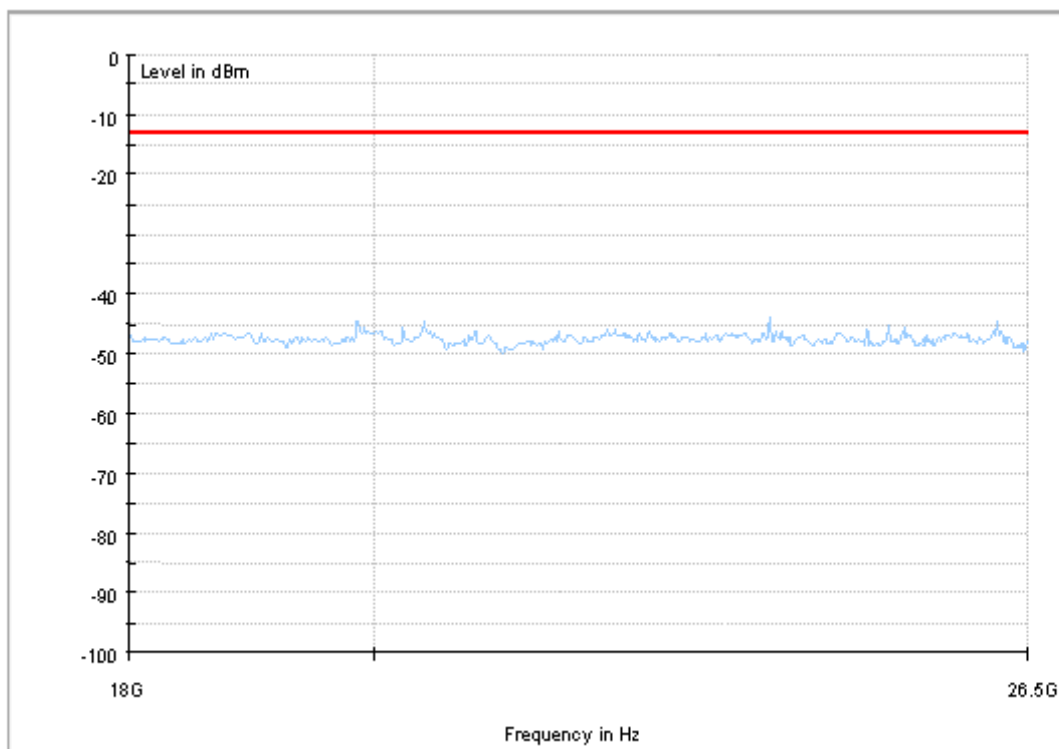
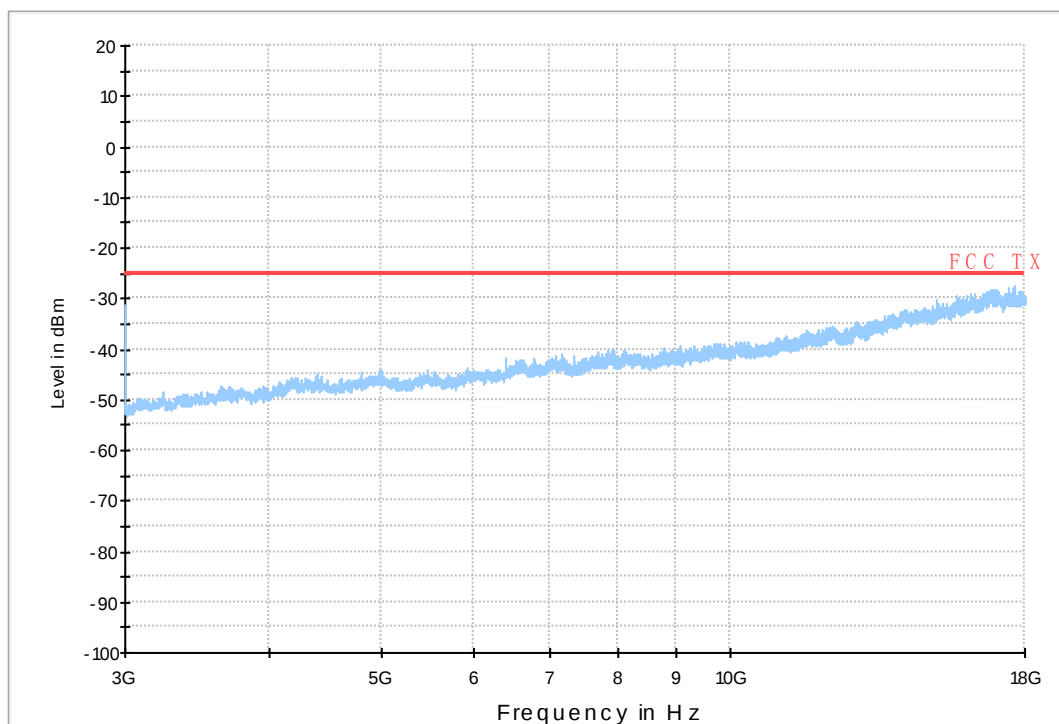
7.1.1.2 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_L

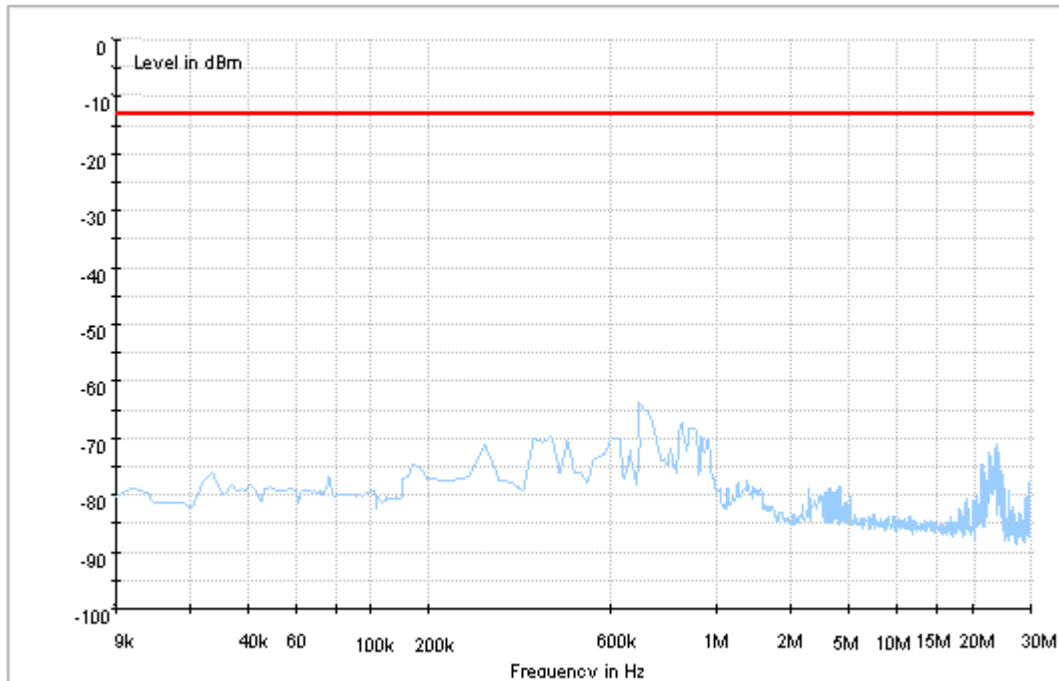


Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_H

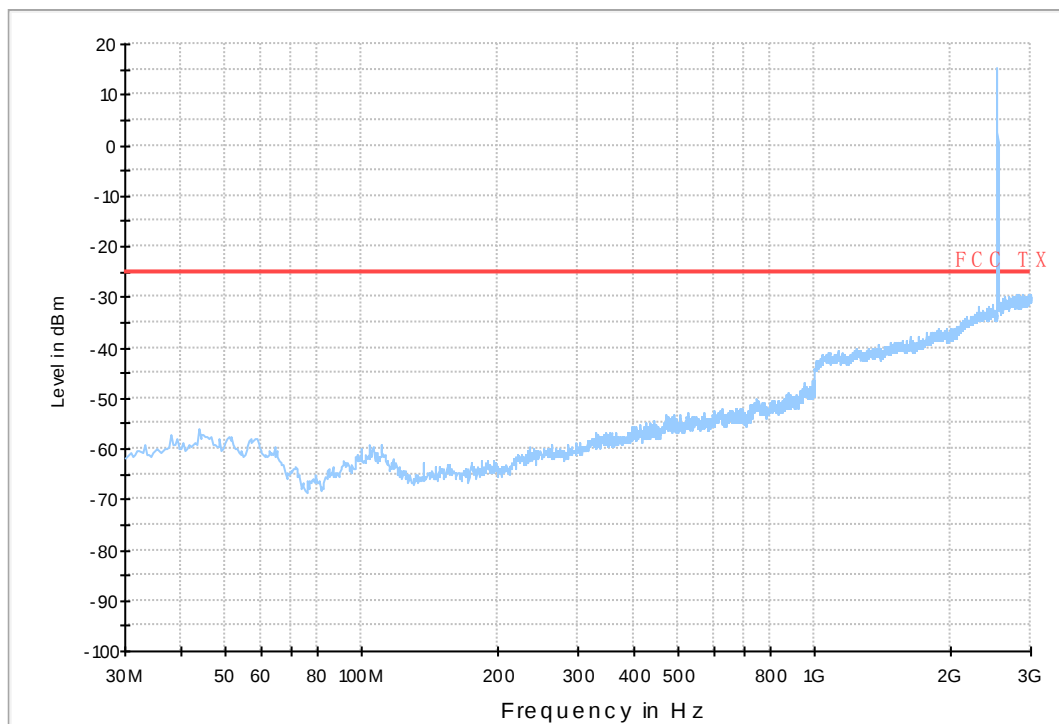


7.2.1 Test Band = BAND7_ANT2

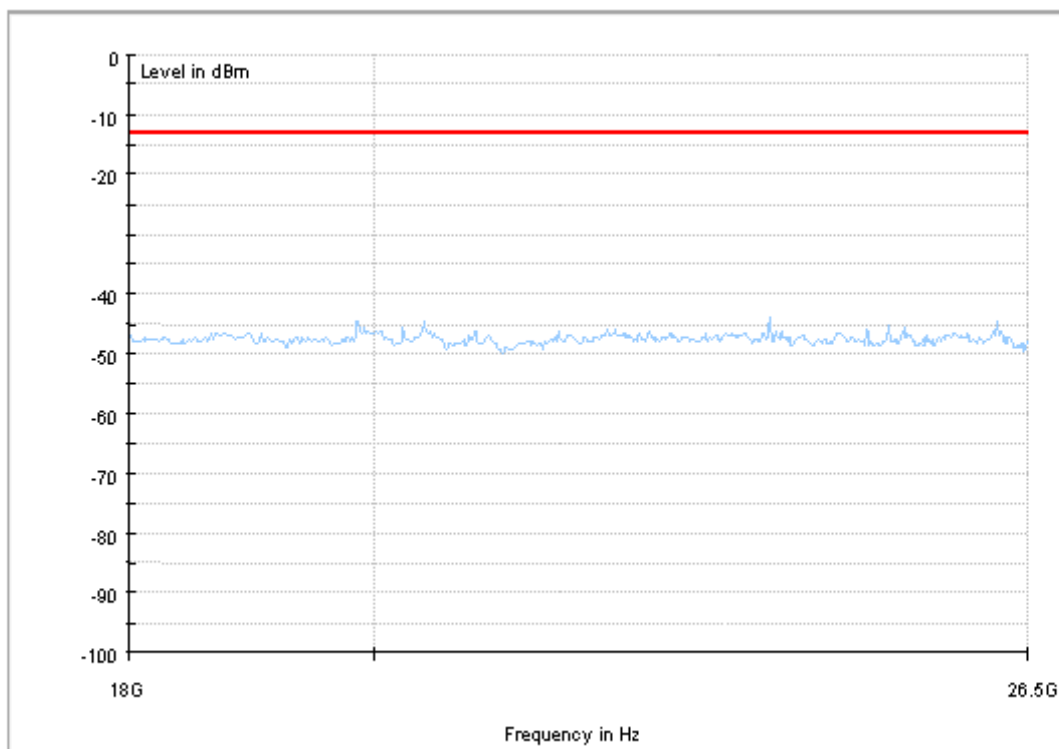
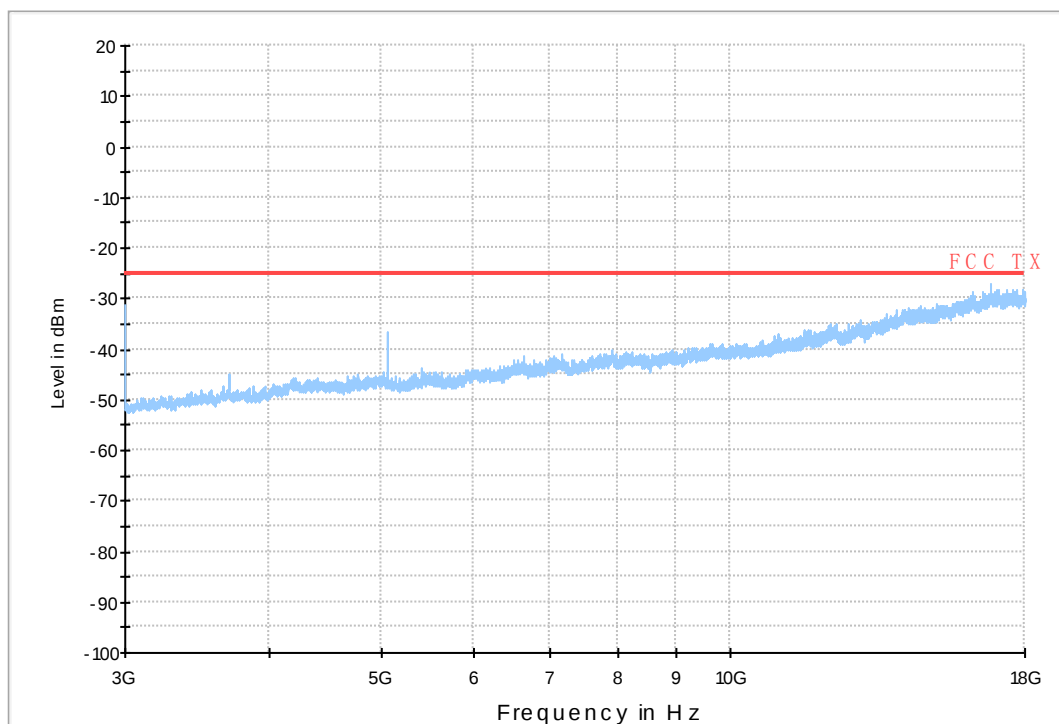
7.2.1.1 Test Bandwidth = 5



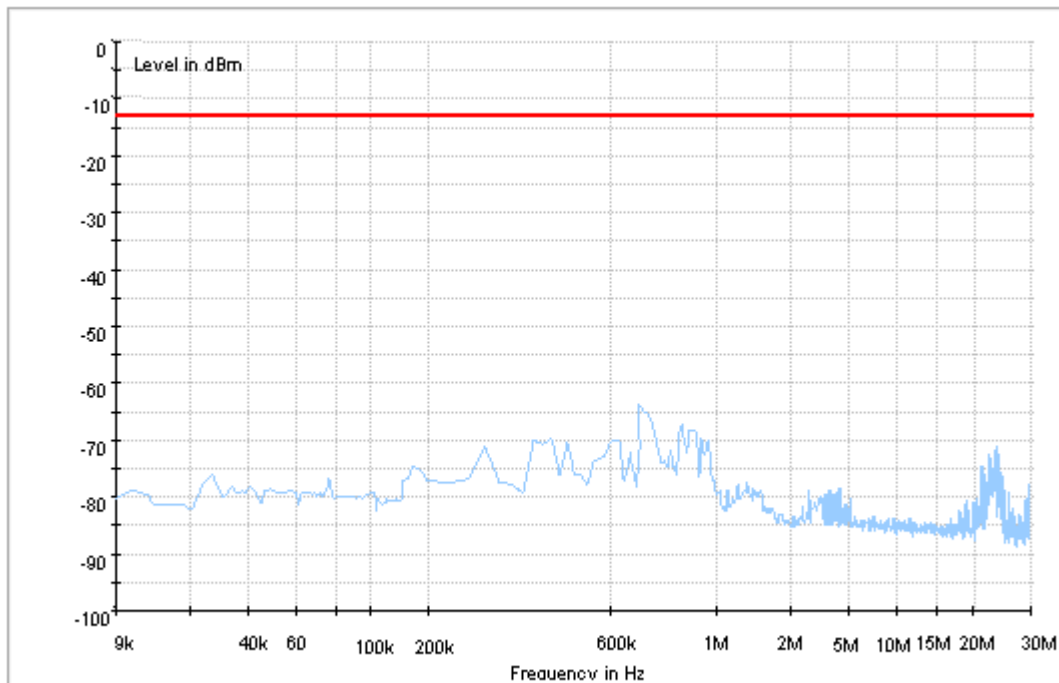
Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_L



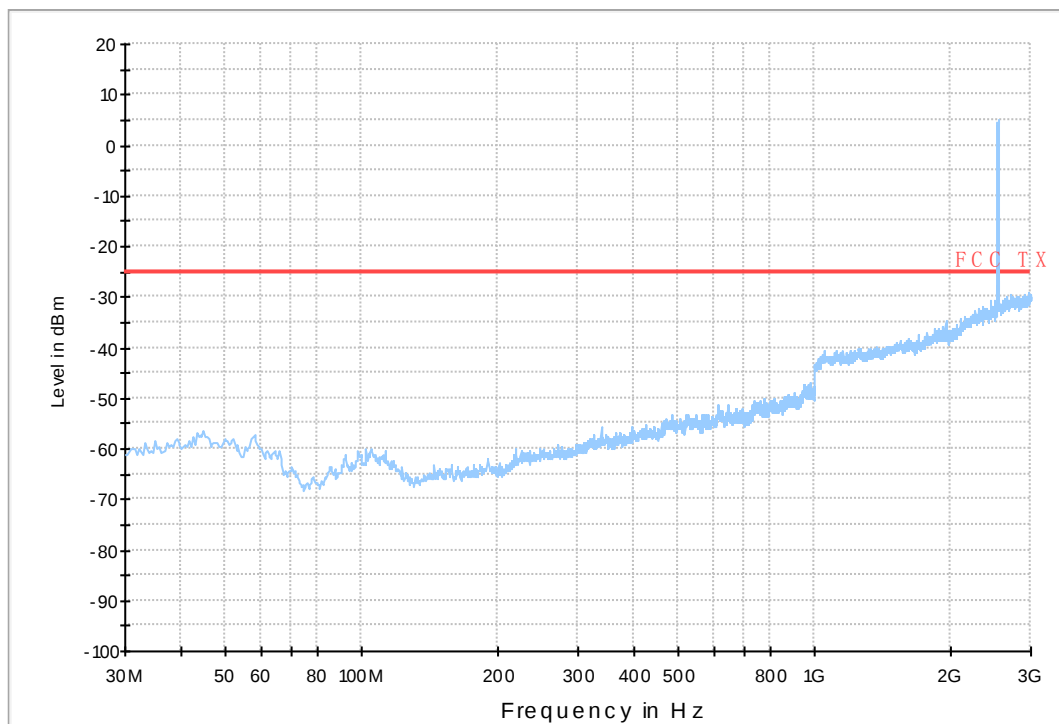
Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_H



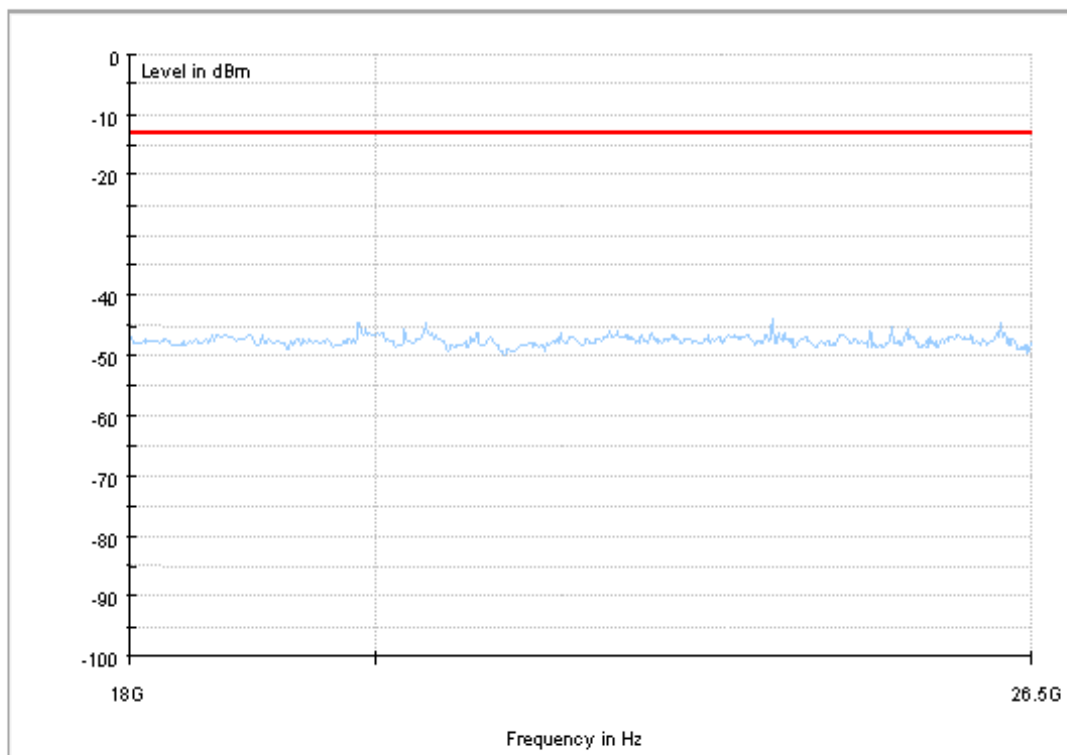
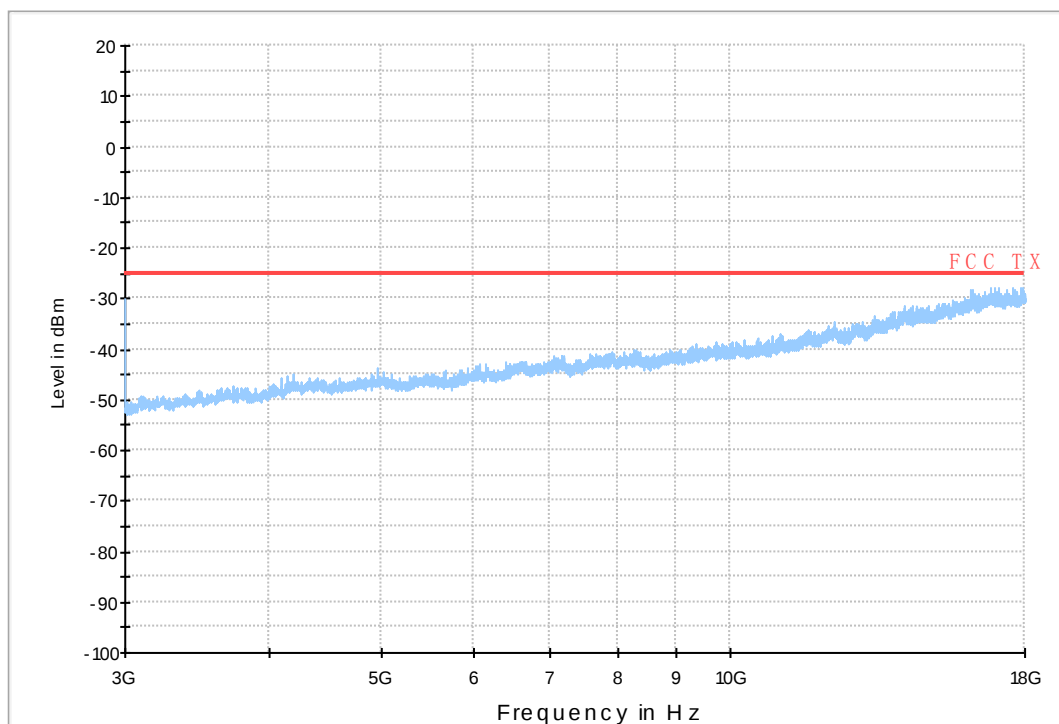
7.2.1.2 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_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
BAND7	LTE/TM1	5	LCH	TN	VL	1.27	0.00051	PASS
					VN	1.80	0.00072	PASS
					VH	-2.60	-0.00104	PASS
			MCH	TN	VL	0.06	0.00002	PASS
					VN	1.50	0.00059	PASS
					VH	-0.46	-0.00018	PASS
			HCH	TN	VL	-9.73	-0.00379	PASS
					VN	-2.17	-0.00085	PASS
					VH	-0.73	-0.00028	PASS
		10	LCH	TN	VL	-3.65	-0.00146	PASS
					VN	-4.96	-0.00198	PASS
					VH	0.90	0.00036	PASS
			MCH	TN	VL	-1.73	-0.00068	PASS
					VN	2.88	0.00114	PASS
					VH	-2.06	-0.00081	PASS
			HCH	TN	VL	1.62	0.00063	PASS
					VN	-2.92	-0.00114	PASS
					VH	0.34	0.00013	PASS
		15	LCH	TN	VL	-1.54	-0.00061	PASS
					VN	-0.56	-0.00022	PASS
					VH	-3.13	-0.00125	PASS
			MCH	TN	VL	-2.49	-0.00098	PASS
					VN	-2.33	-0.00092	PASS
					VH	-2.13	-0.00084	PASS
			HCH	TN	VL	1.32	0.00052	PASS
					VN	-2.63	-0.00103	PASS
					VH	-0.09	-0.00004	PASS
		20	LCH	TN	VL	-3.58	-0.00143	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-2.78	-0.00111	PASS
					VH	-0.09	-0.00004	PASS
					VL	-1.20	-0.00047	PASS
					VN	-2.02	-0.0008	PASS
			MCH	TN	VH	-1.59	-0.00063	PASS
					VL	-1.33	-0.00052	PASS
					VN	-0.67	-0.00026	PASS
					VH	0.47	0.00018	PASS
	LTE/TM2	5	LCH	TN	VL	-0.50	-0.0002	PASS
					VN	-5.99	-0.00239	PASS
					VH	4.02	0.00161	PASS
			MCH	TN	VL	-0.93	-0.00037	PASS
					VN	-2.52	-0.00099	PASS
					VH	-2.85	-0.00112	PASS
			HCH	TN	VL	-0.37	-0.00014	PASS
					VN	0.09	0.00004	PASS
					VH	3.60	0.0014	PASS
		10	LCH	TN	VL	3.00	0.0012	PASS
					VN	-2.76	-0.0011	PASS
					VH	1.34	0.00053	PASS
			MCH	TN	VL	2.39	0.00094	PASS
					VN	-1.33	-0.00052	PASS
					VH	-2.03	-0.0008	PASS
			HCH	TN	VL	2.83	0.0011	PASS
					VN	-3.78	-0.00147	PASS
					VH	0.21	0.00008	PASS
		15	LCH	TN	VL	0.01	0	PASS
					VN	1.63	0.00065	PASS
					VH	-1.39	-0.00055	PASS
			MCH	TN	VL	-3.35	-0.00132	PASS
					VN	1.19	0.00047	PASS
					VH	1.34	0.00053	PASS
			HCH	TN	VL	-0.60	-0.00023	PASS
					VN	0.33	0.00013	PASS
					VH	-1.90	-0.00074	PASS
		20	LCH	TN	VL	-0.89	-0.00035	PASS
					VN	-0.20	-0.00008	PASS
					VH	-0.86	-0.00034	PASS
			MCH	TN	VL	0.77	0.0003	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	0.73	0.00029	PASS
					VH	-1.34	-0.00053	PASS
			HCH	TN	VL	-0.54	-0.00021	PASS
					VN	-1.34	-0.00052	PASS
					VH	-1.40	-0.00055	PASS

8.1.2Frequency Error vs. Temperature:

Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND7	-30	LTE/TM1	5	LCH	VN	2.10	0.00084	PASS
				MCH	VN	4.76	0.00188	PASS
				HCH	VN	-0.36	-0.00014	PASS
			10	LCH	VN	-6.29	-0.00251	PASS
				MCH	VN	-1.09	-0.00043	PASS
				HCH	VN	-0.44	-0.00017	PASS
			15	LCH	VN	-1.89	-0.00075	PASS
				MCH	VN	-0.92	-0.00036	PASS
				HCH	VN	-1.65	-0.00064	PASS
		LTE/TM2	5	LCH	VN	-1.56	-0.00062	PASS
				MCH	VN	0.37	0.00015	PASS
				HCH	VN	-0.74	-0.00029	PASS
			10	LCH	VN	2.37	0.00095	PASS
				MCH	VN	-5.29	-0.00209	PASS
				HCH	VN	-0.49	-0.00019	PASS
			15	LCH	VN	-2.86	-0.00114	PASS
				MCH	VN	-2.00	-0.00079	PASS
				HCH	VN	1.46	0.00057	PASS
	-20	LTE/TM1	5	LCH	VN	-6.21	-0.00248	PASS
				MCH	VN	4.03	0.00159	PASS
				HCH	VN	-1.39	-0.00054	PASS
			10	LCH	VN	-0.62	-0.00025	PASS
				MCH	VN	0.56	0.00022	PASS
				HCH	VN	-1.65	-0.00064	PASS
			5	LCH	VN	-4.48	-0.00179	PASS
				MCH	VN	0.03	0.00001	PASS
				HCH	VN	-1.50	-0.00058	PASS
			10	LCH	VN	-1.16	-0.00046	PASS

Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				MCH	VN	0.00	0	PASS
				HCH	VN	-1.22	-0.00048	PASS
				LCH	VN	-4.69	-0.00187	PASS
			15	MCH	VN	-1.19	-0.00047	PASS
				HCH	VN	-2.47	-0.00096	PASS
				LCH	VN	-6.72	-0.00268	PASS
			20	MCH	VN	1.16	0.00046	PASS
				HCH	VN	3.15	0.00123	PASS
				LCH	VN	-1.52	-0.00061	PASS
		LTE/TM2	5	MCH	VN	4.36	0.00172	PASS
				HCH	VN	0.54	0.00021	PASS
				LCH	VN	-5.29	-0.00211	PASS
			10	MCH	VN	-1.46	-0.00058	PASS
				HCH	VN	0.73	0.00028	PASS
				LCH	VN	-2.56	-0.00102	PASS
			15	MCH	VN	0.34	0.00013	PASS
				HCH	VN	-0.53	-0.00021	PASS
				LCH	VN	-3.23	-0.00129	PASS
			20	MCH	VN	2.20	0.00087	PASS
				HCH	VN	0.97	0.00038	PASS
				LCH	VN	-5.68	-0.00227	PASS
	-10	LTE/TM1	5	MCH	VN	3.46	0.00136	PASS
				HCH	VN	-3.35	-0.0013	PASS
				LCH	VN	-0.21	-0.00008	PASS
			10	MCH	VN	-3.98	-0.00157	PASS
				HCH	VN	-0.27	-0.00011	PASS
				LCH	VN	-4.62	-0.00184	PASS
			15	MCH	VN	-1.30	-0.00051	PASS
				HCH	VN	-1.43	-0.00056	PASS
				LCH	VN	-4.99	-0.00199	PASS
			20	MCH	VN	-1.20	-0.00047	PASS
				HCH	VN	-2.00	-0.00078	PASS
				LCH	VN	-7.47	-0.00299	PASS
		LTE/TM2	5	MCH	VN	6.92	0.00273	PASS
				HCH	VN	-0.94	-0.00037	PASS
				LCH	VN	-0.39	-0.00016	PASS
			10	MCH	VN	1.46	0.00058	PASS
				HCH	VN	-0.29	-0.00011	PASS
			15	LCH	VN	-5.12	-0.00204	PASS

Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				MCH	VN	0.44	0.00017	PASS
				HCH	VN	-2.19	-0.00085	PASS
			20	LCH	VN	-2.50	-0.001	PASS
				MCH	VN	1.43	0.00056	PASS
				HCH	VN	-2.00	-0.00078	PASS
	0	LTE/TM1	5	LCH	VN	-0.80	-0.00032	PASS
				MCH	VN	2.65	0.00105	PASS
				HCH	VN	-5.44	-0.00212	PASS
			10	LCH	VN	-1.09	-0.00044	PASS
				MCH	VN	-1.20	-0.00047	PASS
				HCH	VN	2.95	0.00115	PASS
			15	LCH	VN	-1.87	-0.00075	PASS
				MCH	VN	-2.17	-0.00086	PASS
				HCH	VN	0.13	0.00005	PASS
			20	LCH	VN	-2.95	-0.00118	PASS
				MCH	VN	-0.92	-0.00036	PASS
				HCH	VN	-0.14	-0.00005	PASS
		LTE/TM2	5	LCH	VN	5.24	0.00209	PASS
				MCH	VN	-1.43	-0.00056	PASS
				HCH	VN	0.26	0.0001	PASS
			10	LCH	VN	-2.07	-0.00083	PASS
				MCH	VN	-2.96	-0.00117	PASS
				HCH	VN	0.27	0.00011	PASS
			15	LCH	VN	-4.13	-0.00165	PASS
				MCH	VN	-2.27	-0.0009	PASS
				HCH	VN	3.13	0.00122	PASS
			20	LCH	VN	-1.44	-0.00057	PASS
				MCH	VN	-0.40	-0.00016	PASS
				HCH	VN	1.14	0.00045	PASS
	10	LTE/TM1	5	LCH	VN	0.17	0.00007	PASS
				MCH	VN	-1.42	-0.00056	PASS
				HCH	VN	-17.12	-0.00667	PASS
			10	LCH	VN	-1.79	-0.00071	PASS
				MCH	VN	-4.02	-0.00159	PASS
				HCH	VN	-0.49	-0.00019	PASS
			15	LCH	VN	-5.69	-0.00227	PASS
				MCH	VN	2.07	0.00082	PASS
				HCH	VN	-2.20	-0.00086	PASS
			20	LCH	VN	-2.00	-0.0008	PASS

Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				MCH	VN	-2.16	-0.00085	PASS
				HCH	VN	-0.83	-0.00032	PASS
		LTE/TM2	5	LCH	VN	-0.53	-0.00021	PASS
				MCH	VN	2.22	0.00088	PASS
				HCH	VN	1.07	0.00042	PASS
			10	LCH	VN	-3.56	-0.00142	PASS
				MCH	VN	2.62	0.00103	PASS
				HCH	VN	2.15	0.00084	PASS
			15	LCH	VN	-1.53	-0.00061	PASS
				MCH	VN	3.72	0.00147	PASS
				HCH	VN	-4.53	-0.00177	PASS
			20	LCH	VN	-0.99	-0.00039	PASS
				MCH	VN	-0.24	-0.00009	PASS
				HCH	VN	-2.59	-0.00101	PASS
	20	LTE/TM1	5	LCH	VN	0.41	0.00016	PASS
				MCH	VN	-3.63	-0.00143	PASS
				HCH	VN	-0.59	-0.00023	PASS
			10	LCH	VN	-3.30	-0.00132	PASS
				MCH	VN	-1.90	-0.00075	PASS
				HCH	VN	0.49	0.00019	PASS
			15	LCH	VN	-1.70	-0.00068	PASS
				MCH	VN	0.77	0.0003	PASS
				HCH	VN	-0.84	-0.00033	PASS
			20	LCH	VN	-3.45	-0.00137	PASS
				MCH	VN	-0.40	-0.00016	PASS
				HCH	VN	0.93	0.00036	PASS
		LTE/TM2	5	LCH	VN	-2.98	-0.00119	PASS
				MCH	VN	-1.29	-0.00051	PASS
				HCH	VN	2.60	0.00101	PASS
			10	LCH	VN	-0.74	-0.0003	PASS
				MCH	VN	-6.11	-0.00241	PASS
				HCH	VN	0.31	0.00012	PASS
			15	LCH	VN	-1.26	-0.0005	PASS
				MCH	VN	-1.09	-0.00043	PASS
				HCH	VN	-2.43	-0.00095	PASS
			20	LCH	VN	-3.98	-0.00159	PASS
				MCH	VN	0.83	0.00033	PASS
				HCH	VN	-0.44	-0.00017	PASS
	30	LTE/TM1	5	LCH	VN	0.96	0.00038	PASS

Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				MCH	VN	-1.26	-0.0005	PASS
				HCH	VN	3.43	0.00134	PASS
				LCH	VN	-8.11	-0.00324	PASS
			10	MCH	VN	1.06	0.00042	PASS
				HCH	VN	-1.13	-0.00044	PASS
				LCH	VN	-3.92	-0.00156	PASS
			15	MCH	VN	-0.90	-0.00036	PASS
				HCH	VN	-3.09	-0.00121	PASS
				LCH	VN	-5.68	-0.00226	PASS
			20	MCH	VN	0.82	0.00032	PASS
				HCH	VN	-1.37	-0.00054	PASS
				LCH	VN	-1.29	-0.00052	PASS
		LTE/TM2	5	MCH	VN	-0.77	-0.0003	PASS
				HCH	VN	1.24	0.00048	PASS
				LCH	VN	-4.39	-0.00175	PASS
			10	MCH	VN	-3.42	-0.00135	PASS
				HCH	VN	0.47	0.00018	PASS
				LCH	VN	-4.81	-0.00192	PASS
			15	MCH	VN	-0.30	-0.00012	PASS
				HCH	VN	-0.67	-0.00026	PASS
				LCH	VN	-3.06	-0.00122	PASS
			20	MCH	VN	2.07	0.00082	PASS
				HCH	VN	-3.10	-0.00121	PASS
				LCH	VN	-3.40	-0.00136	PASS
	40	LTE/TM1	5	MCH	VN	1.97	0.00078	PASS
				HCH	VN	-0.40	-0.00016	PASS
				LCH	VN	-8.68	-0.00347	PASS
			10	MCH	VN	4.89	0.00193	PASS
				HCH	VN	-1.26	-0.00049	PASS
				LCH	VN	-2.75	-0.0011	PASS
			15	MCH	VN	-1.14	-0.00045	PASS
				HCH	VN	-0.01	0	PASS
				LCH	VN	-5.19	-0.00207	PASS
			20	MCH	VN	-1.20	-0.00047	PASS
				HCH	VN	1.30	0.00051	PASS
				LCH	VN	-1.27	-0.00051	PASS
		LTE/TM2	5	MCH	VN	0.49	0.00019	PASS
				HCH	VN	-0.83	-0.00032	PASS
				LCH	VN	-0.01	0	PASS
			10	LCH	VN	-0.01	0	PASS

Test Band	Test Temp.	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				MCH	VN	0.29	0.00011	PASS
				HCH	VN	2.09	0.00081	PASS
			15	LCH	VN	-3.52	-0.0014	PASS
				MCH	VN	0.87	0.00034	PASS
				HCH	VN	-7.30	-0.00285	PASS
			20	LCH	VN	-0.03	-0.00001	PASS
				MCH	VN	-0.87	-0.00034	PASS
				HCH	VN	1.13	0.00044	PASS
	50	LTE/TM1	5	LCH	VN	-5.74	-0.00229	PASS
				MCH	VN	0.21	0.00008	PASS
				HCH	VN	1.65	0.00064	PASS
			10	LCH	VN	-3.88	-0.00155	PASS
				MCH	VN	-1.67	-0.00066	PASS
				HCH	VN	-2.00	-0.00078	PASS
			15	LCH	VN	-5.35	-0.00213	PASS
				MCH	VN	1.79	0.00071	PASS
				HCH	VN	-1.27	-0.00005	PASS
			20	LCH	VN	0.70	0.00028	PASS
				MCH	VN	-3.78	-0.00149	PASS
				HCH	VN	0.66	0.00026	PASS
		LTE/TM2	5	LCH	VN	-0.46	-0.00018	PASS
				MCH	VN	3.99	0.00157	PASS
				HCH	VN	0.77	0.00003	PASS
			10	LCH	VN	-2.02	-0.00081	PASS
				MCH	VN	-2.16	-0.00085	PASS
				HCH	VN	1.76	0.00069	PASS
			15	LCH	VN	-1.32	-0.00053	PASS
				MCH	VN	2.03	0.00008	PASS
				HCH	VN	-2.93	-0.00114	PASS
			20	LCH	VN	-1.09	-0.00043	PASS
				MCH	VN	0.27	0.00011	PASS
				HCH	VN	1.57	0.00061	PASS

END