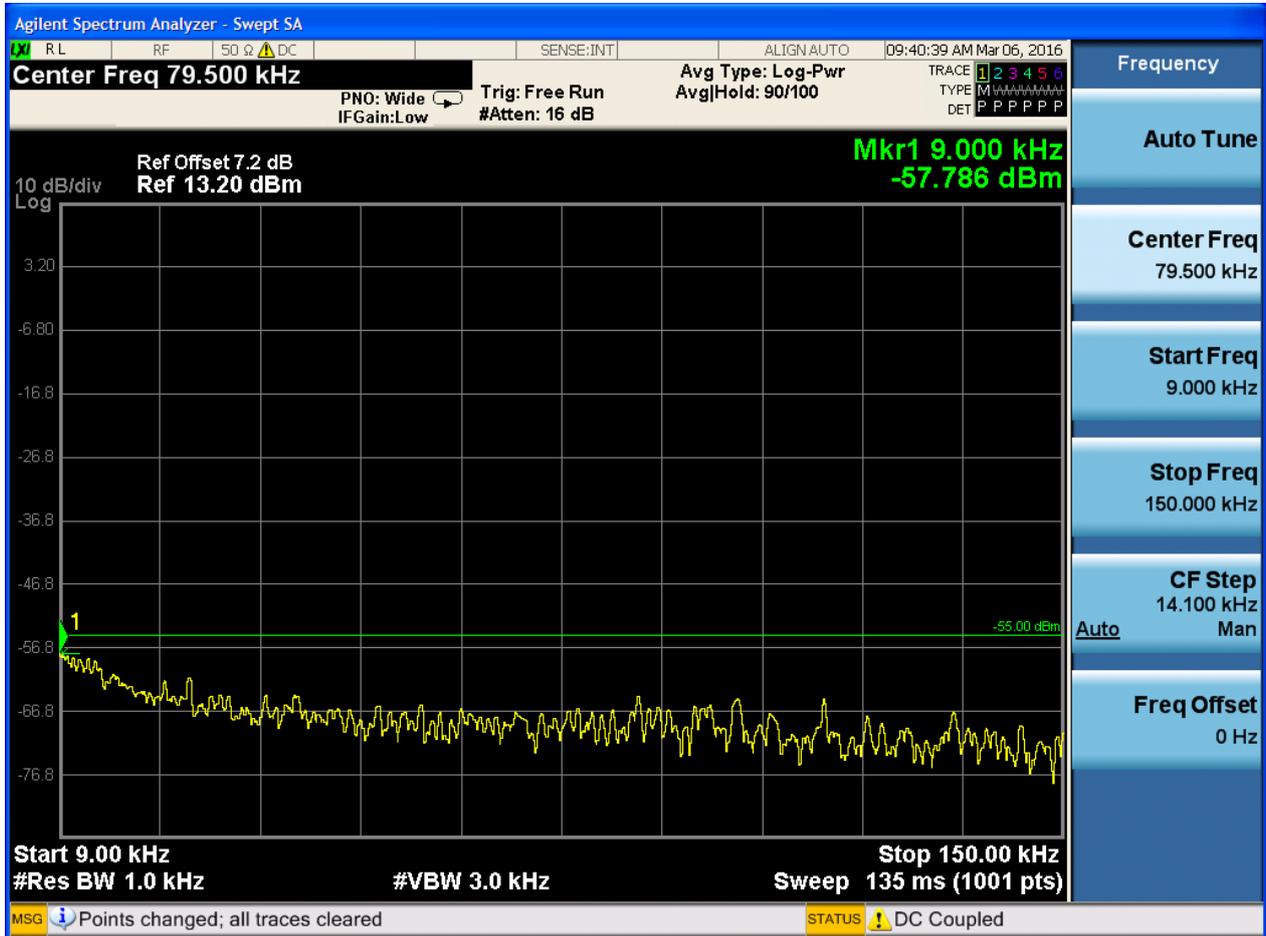### 6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0
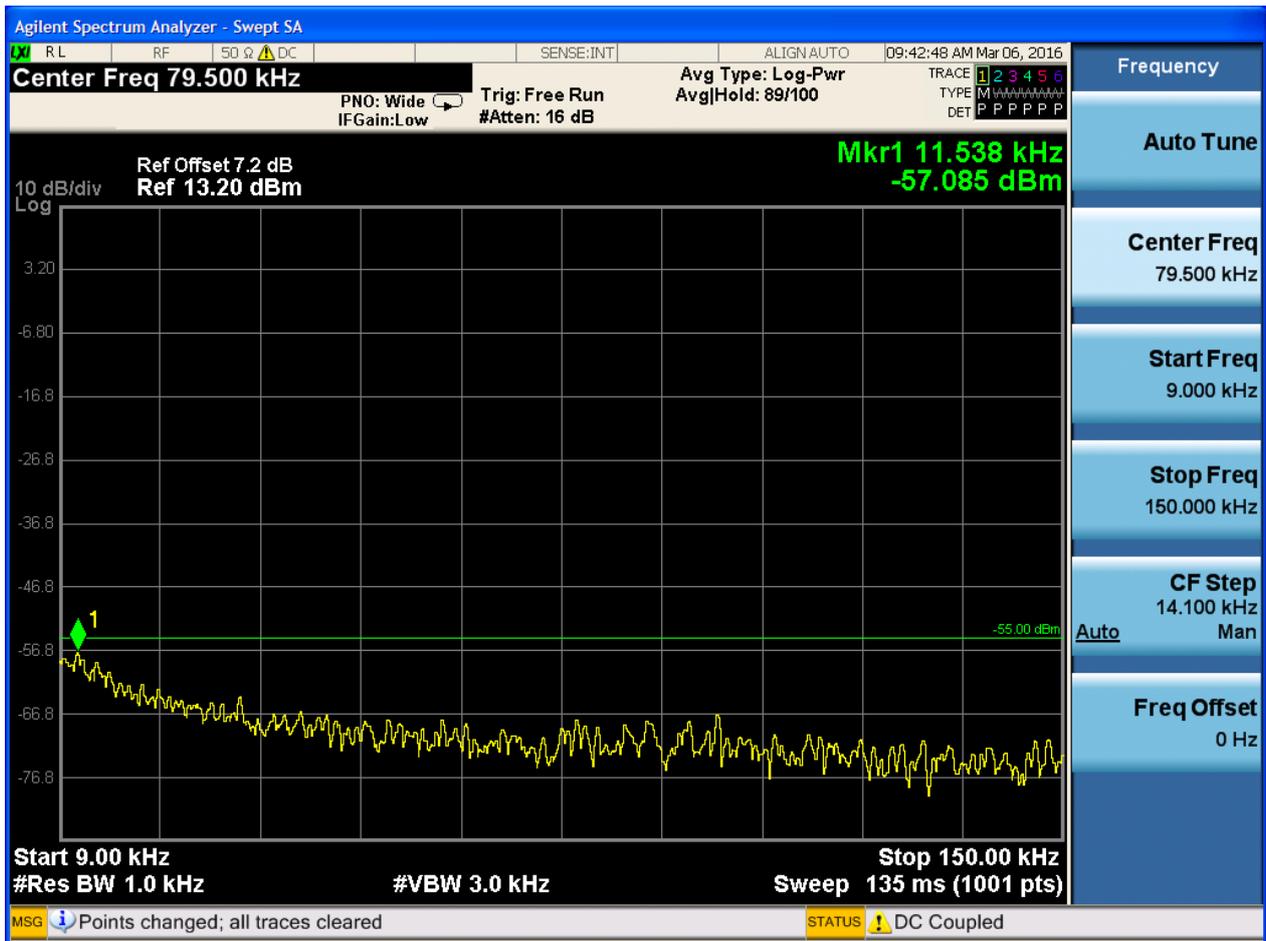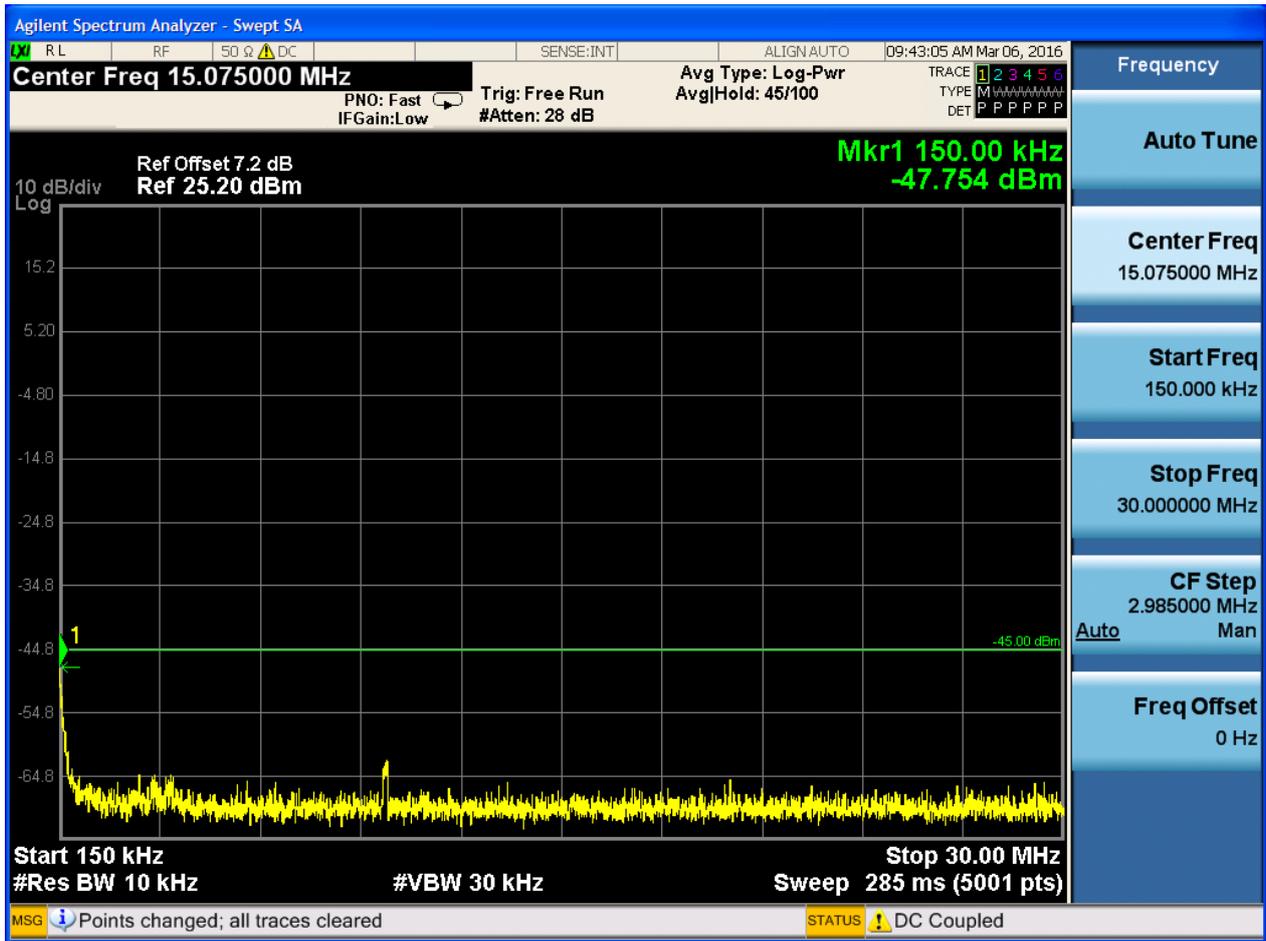
Agilent Spectrum Analyzer - Swept SA

RL | RF | 50 Ω | AC | | SENSE:INT | ALIGN AUTO | 09:41:12 AM Mar 06, 2016

Center Freq 13.515000000 GHz

PNO: Fast
IFGain:Low

Trig: Free Run
#Atten: 28 dB

Avg Type: Log-Pwr
Avg|Hold: 57/100

TRACE 1 2 3 4 5 6
TYPE M WWWWWW
DET P P P P P

Ref Offset 7.2 dB
10 dB/div   Ref 25.20 dBm
Log

Mkr1 2.605 6 GHz
26.657 dBm

15.2

5.20

-4.80

-14.8

-24.8   -25.00 dBm

-34.8

-44.8

-54.8

-64.8

Start 30 MHz   Stop 27.00 GHz
#Res BW 1.0 MHz   #VBW 3.0 MHz   Sweep   69.3 ms (40001 pts)

MSG Points changed; all traces cleared   STATUS

Frequency

Auto Tune

Center Freq
13.515000000 GHz

Start Freq
30.000000 MHz

Stop Freq
27.000000000 GHz

CF Step
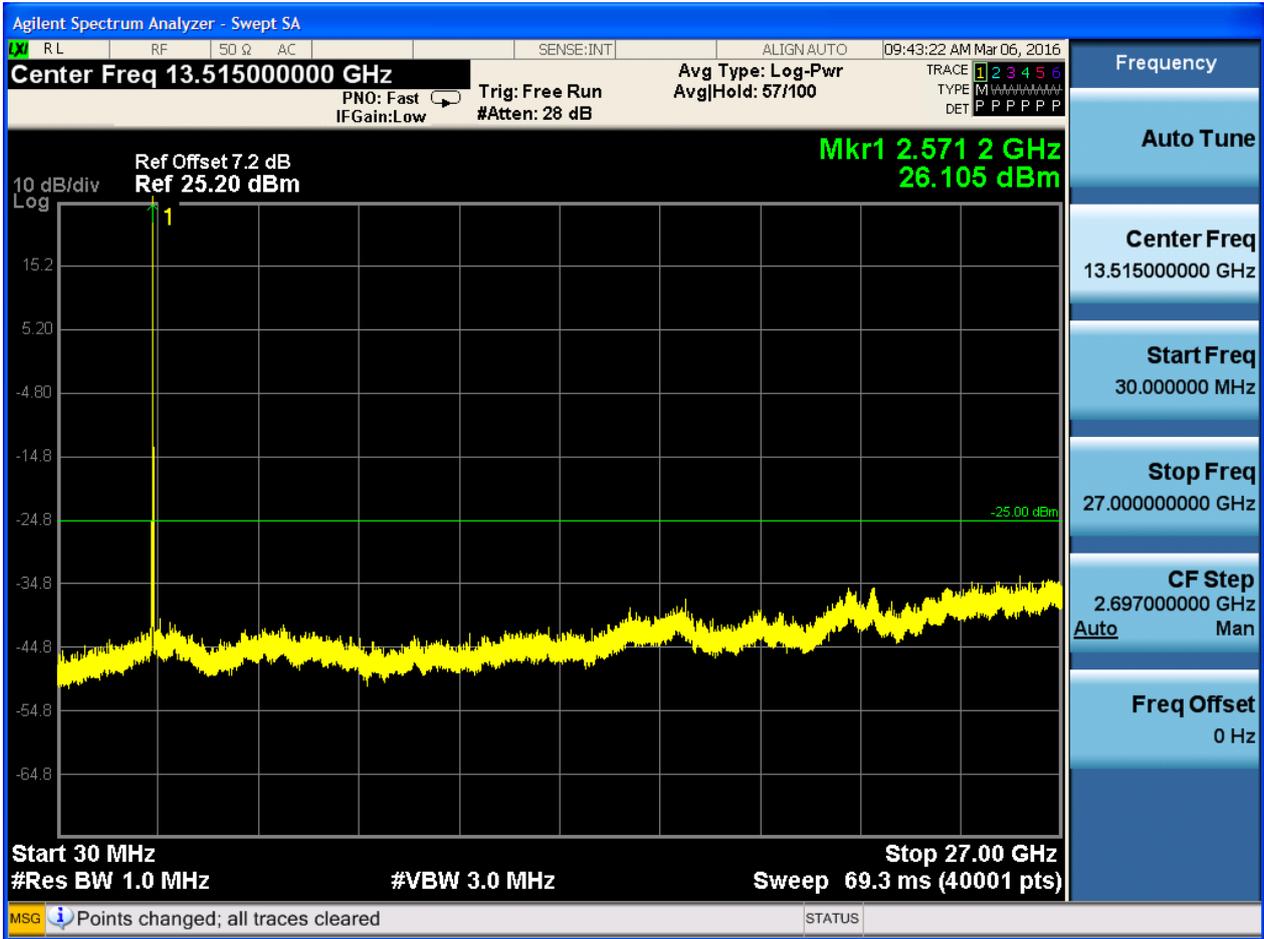2.697000000 GHz
Auto   Man

Freq Offset
0 Hz

6.1.1.1.4 Test Bandwidth = 20

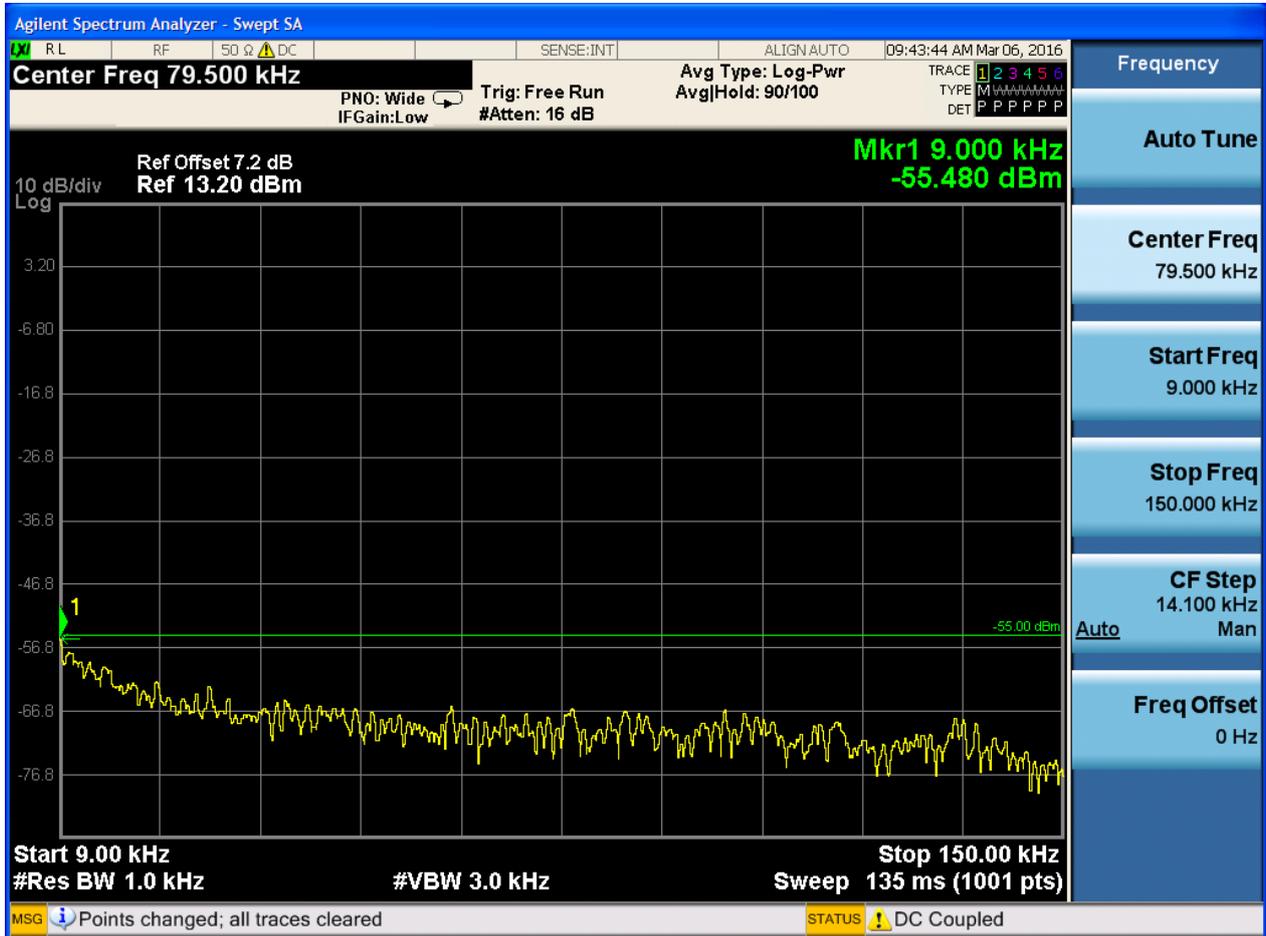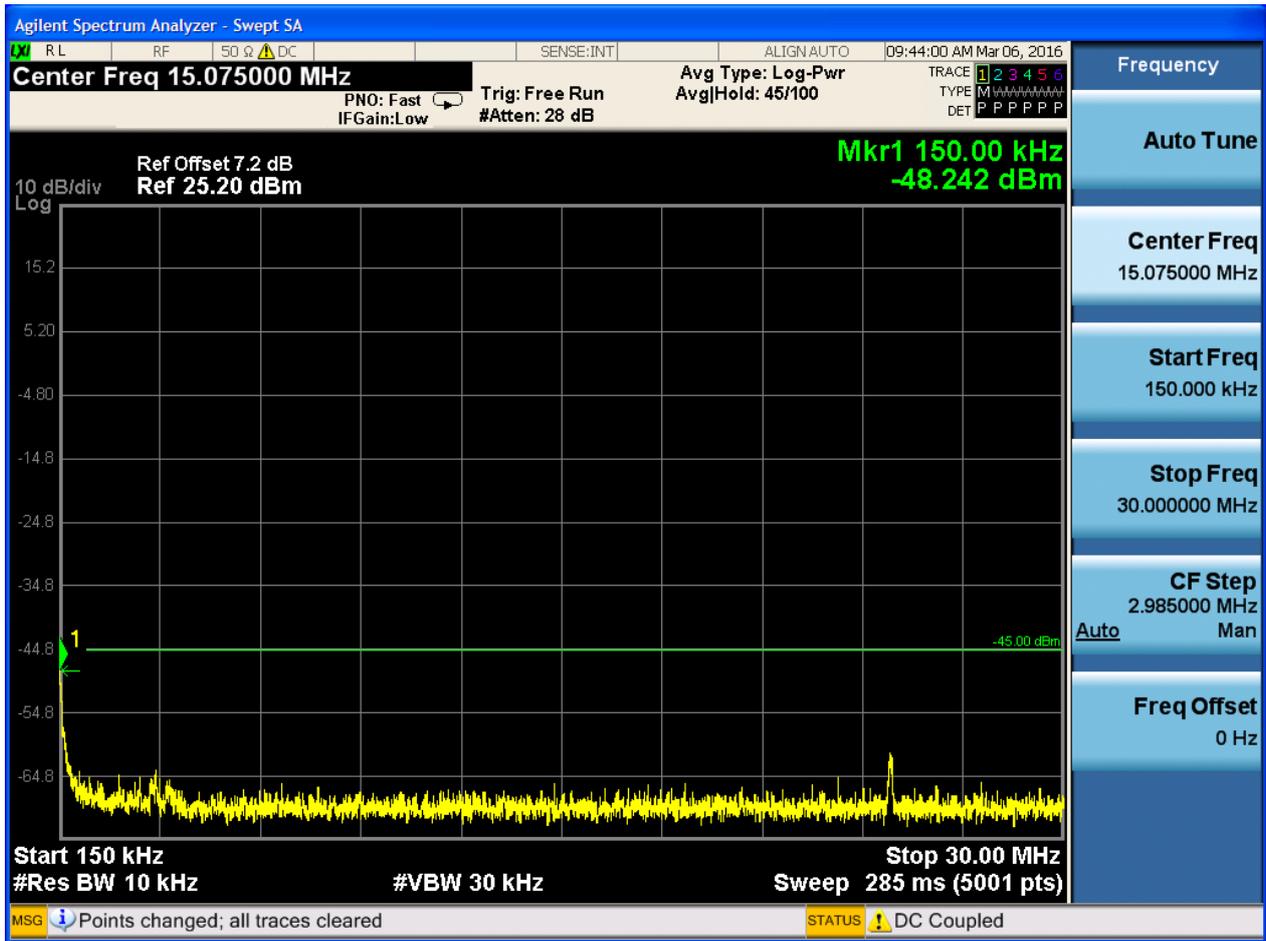### 6.1.1.1.4.1 Test Channel = LCH
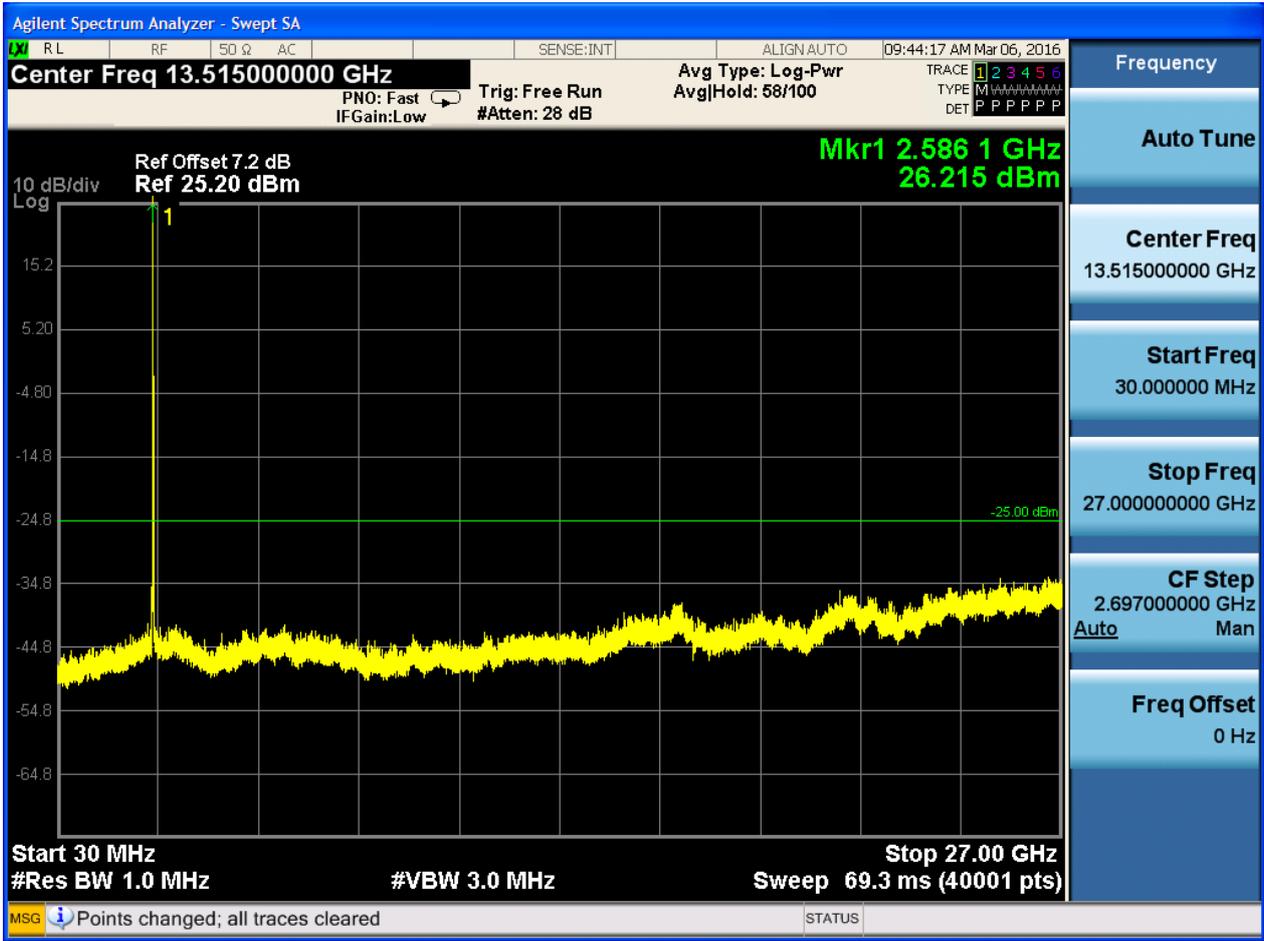
6.1.1.1.4.1.1 Test RB = RB1#0

6.1.1.1.4.2 Test Channel = MCH
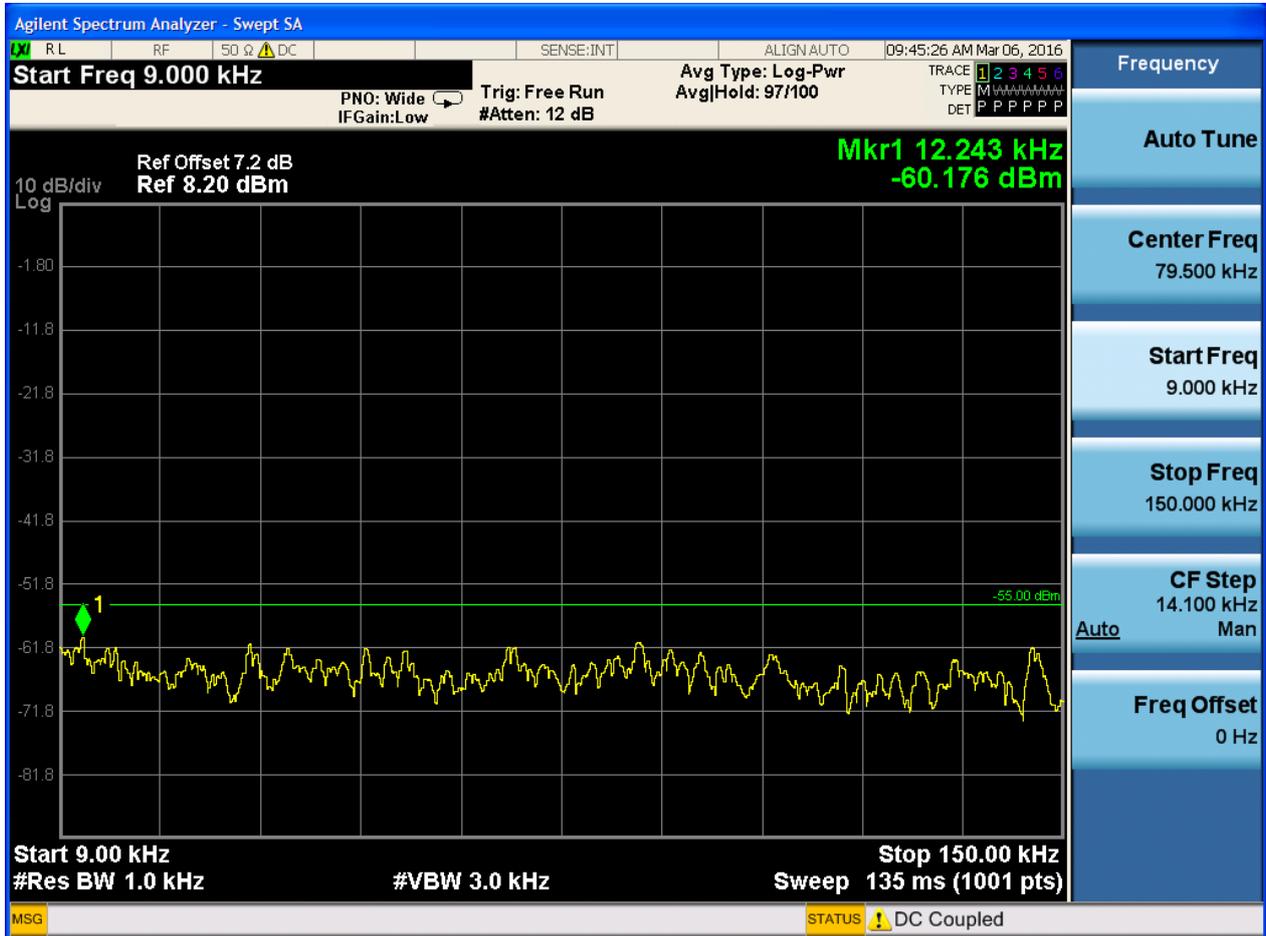
6.1.1.1.4.2.1 Test RB = RB1#0

6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0
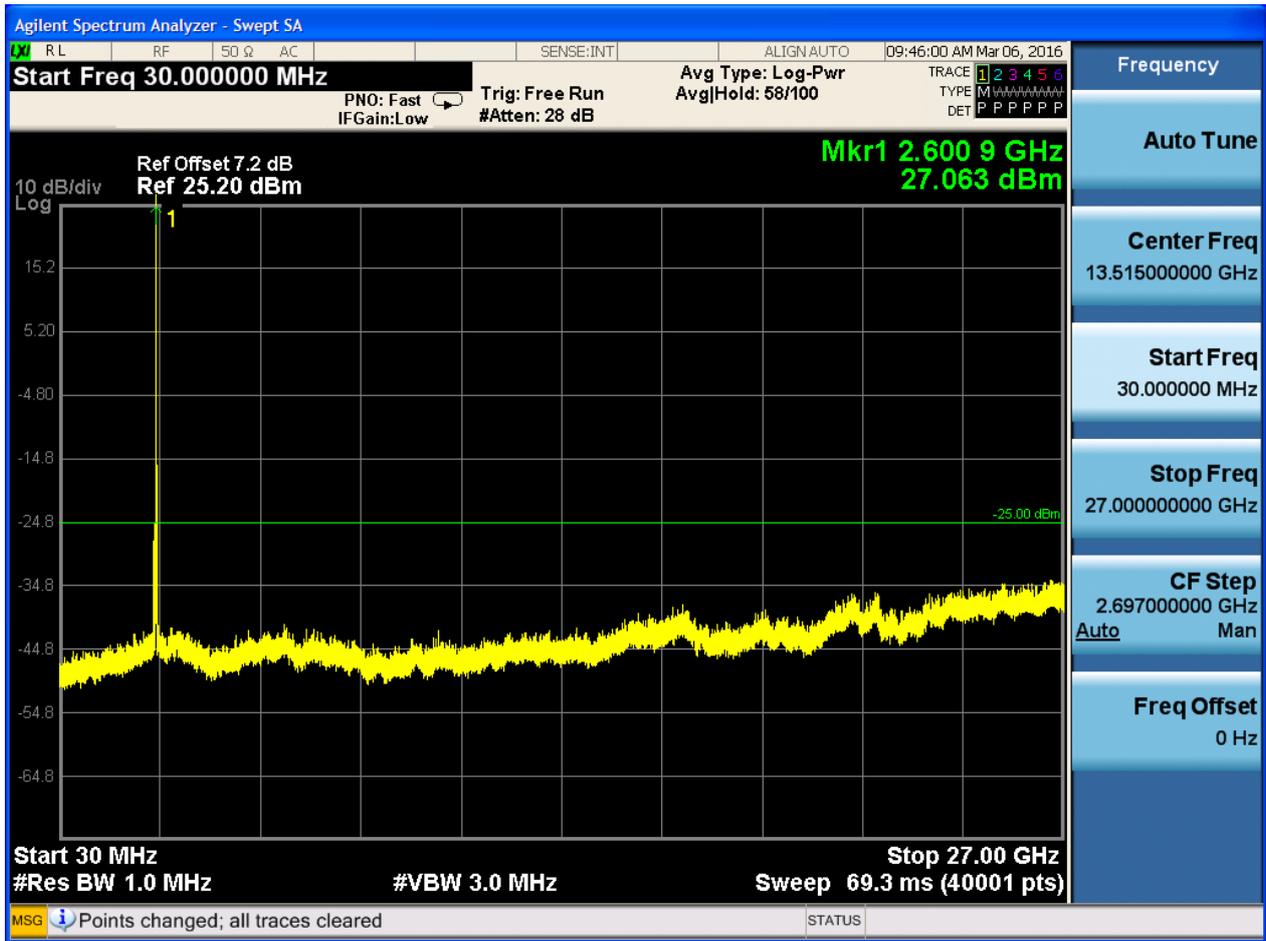
6.1.1.2 Test Mode = LTE/TM2

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

6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0
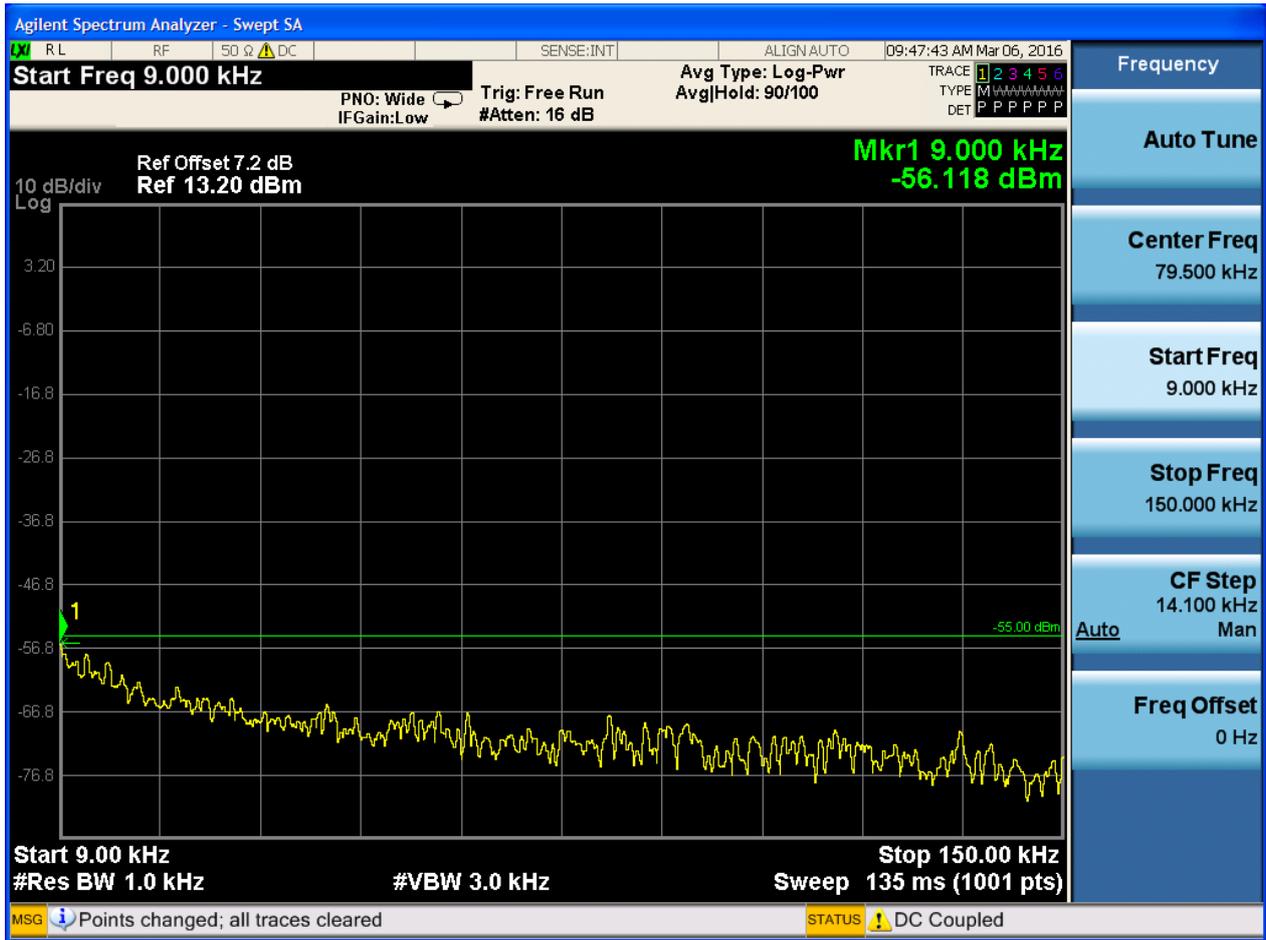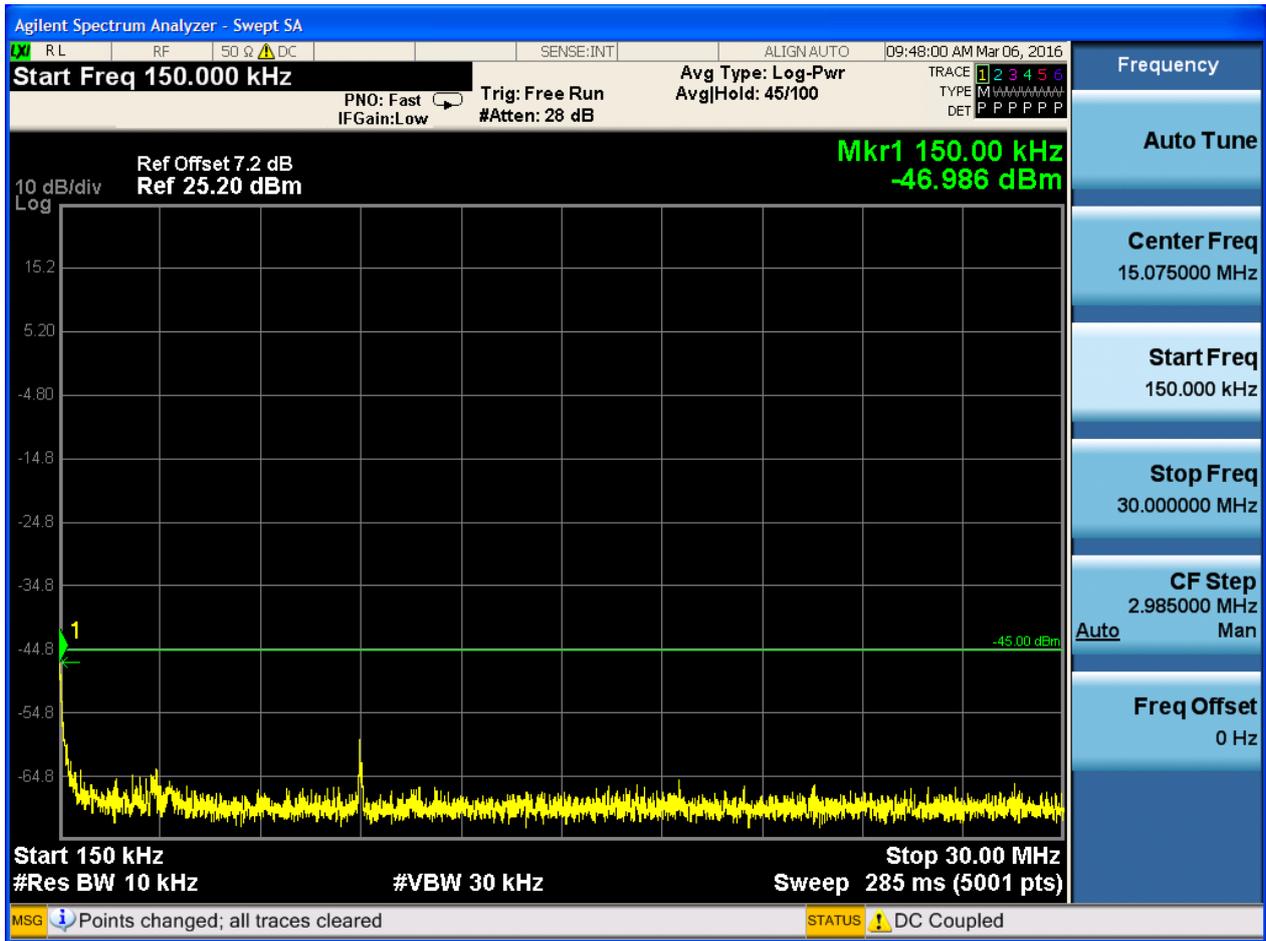
6.1.1.2.1.3 Test Channel = HCH

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

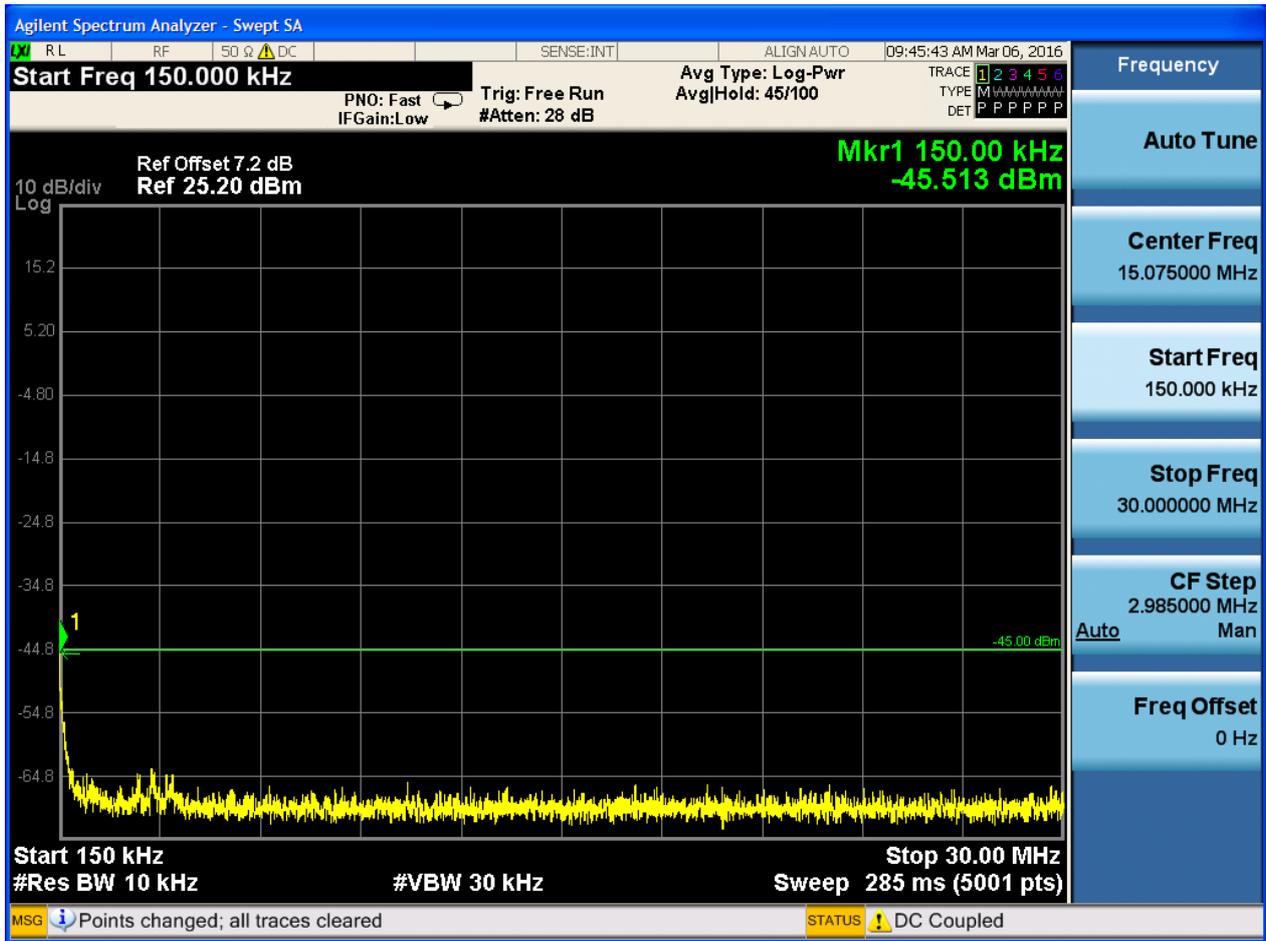## 6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0

6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0
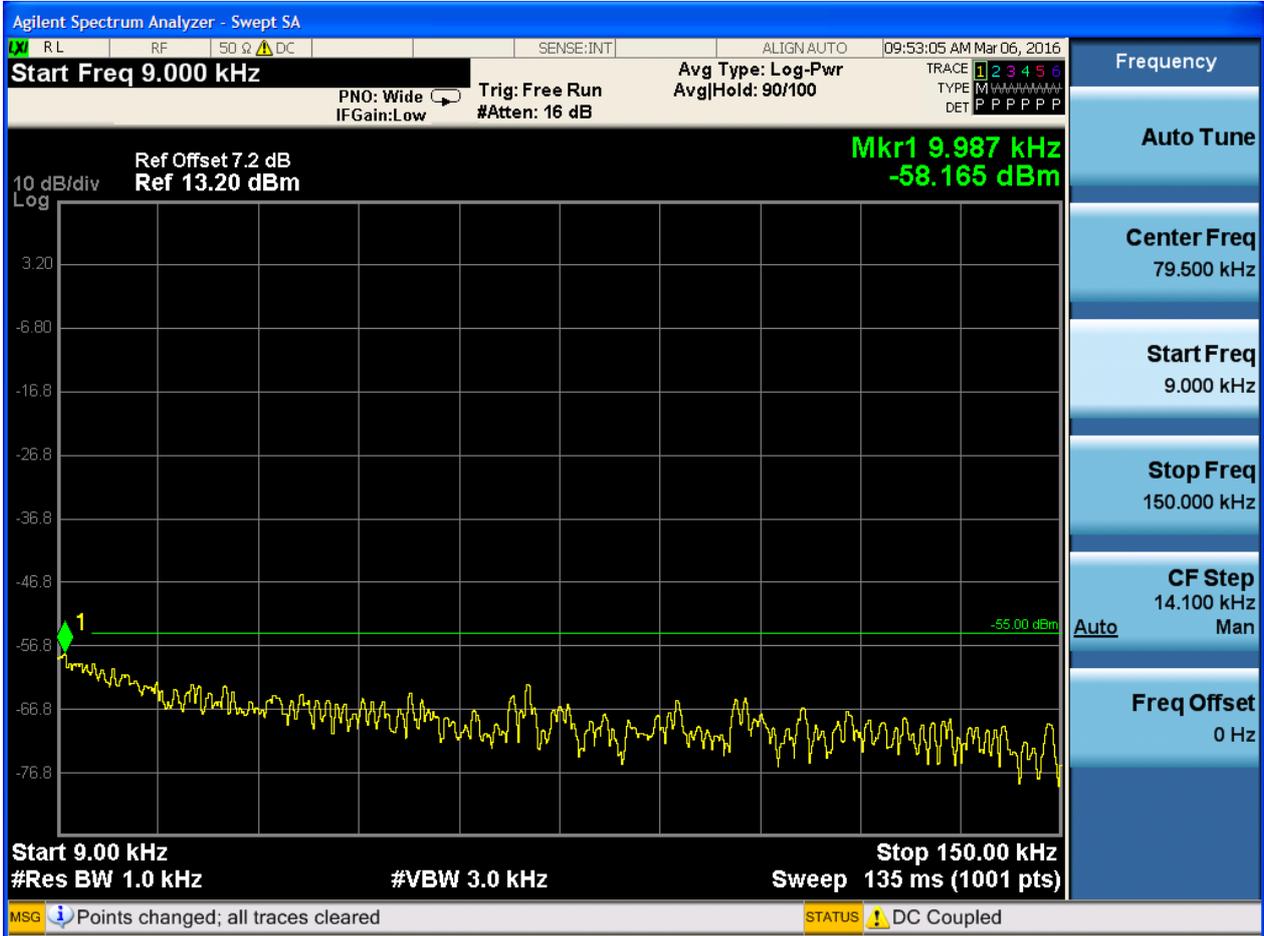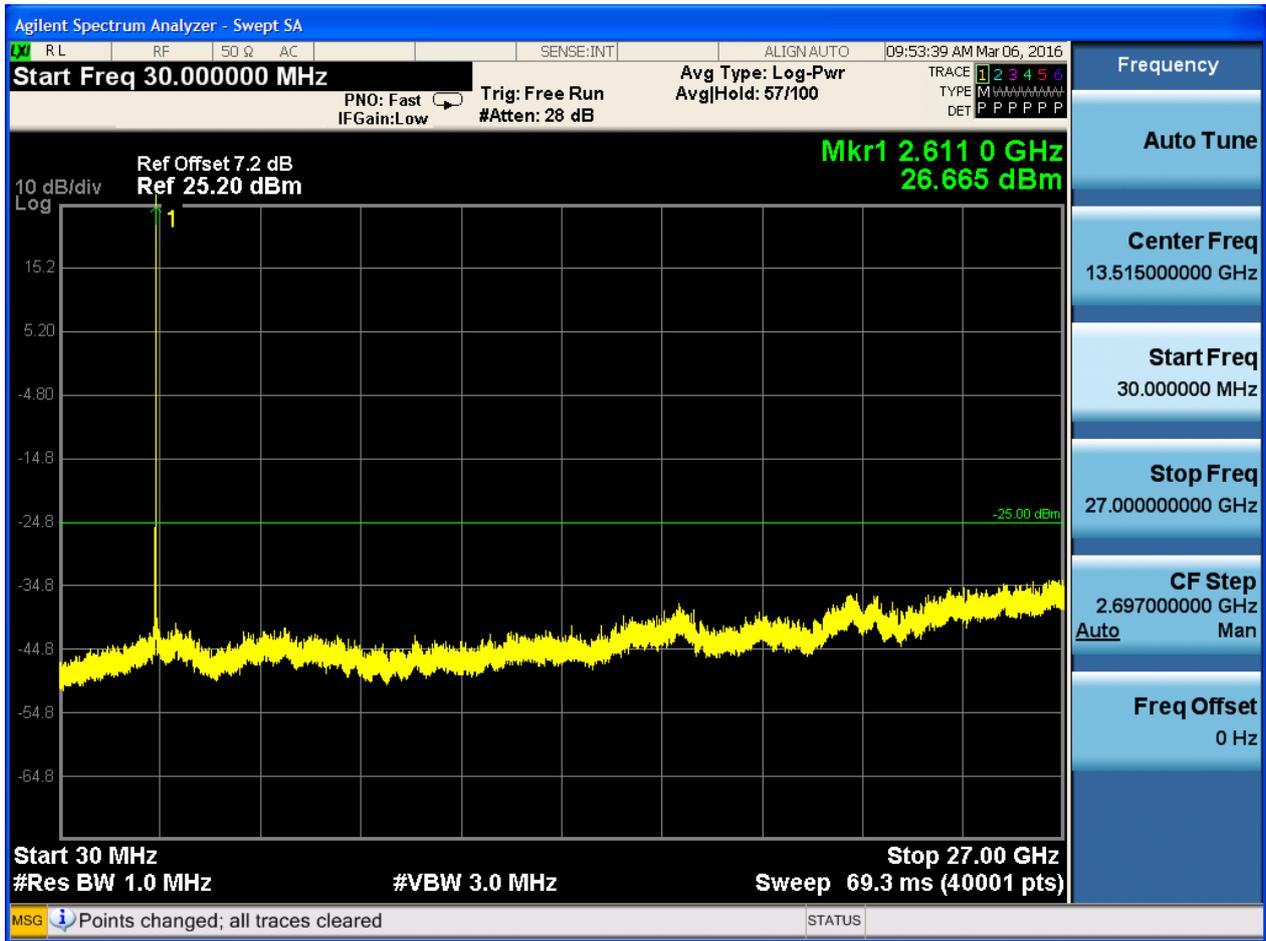
6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

Agilent Spectrum Analyzer - Swept SA

| LXI R L | RF | 50 Ω | AC | | SENSE:INT | ALIGN AUTO | 09:55:09 AM Mar 06, 2016 |

Start Freq 30.000000 MHz

PNO: Fast
IFGain:Low

Trig: Free Run
#Atten: 28 dB

Avg Type: Log-Pwr
Avg|Hold: 57/100

TRACE 1 2 3 4 5 6
TYPE M WWWWWW
DET P P P P P

Mkr1 2.571 2 GHz
25.442 dBm

Ref Offset 7.2 dB
Ref 25.20 dBm

10 dB/div
Log

15.2
5.20
-4.80
-14.8
-24.8
-34.8
-44.8
-54.8
-64.8

-25.00 dBm

Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz

Stop 27.00 GHz
Sweep 69.3 ms (40001 pts)

MSG Points changed; all traces cleared
STATUS

Frequency

Auto Tune

Center Freq
13.515000000 GHz

Start Freq
30.000000 MHz

Stop Freq
27.000000000 GHz

CF Step
2.697000000 GHz
Auto   Man

Freq Offset
0 Hz

6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0
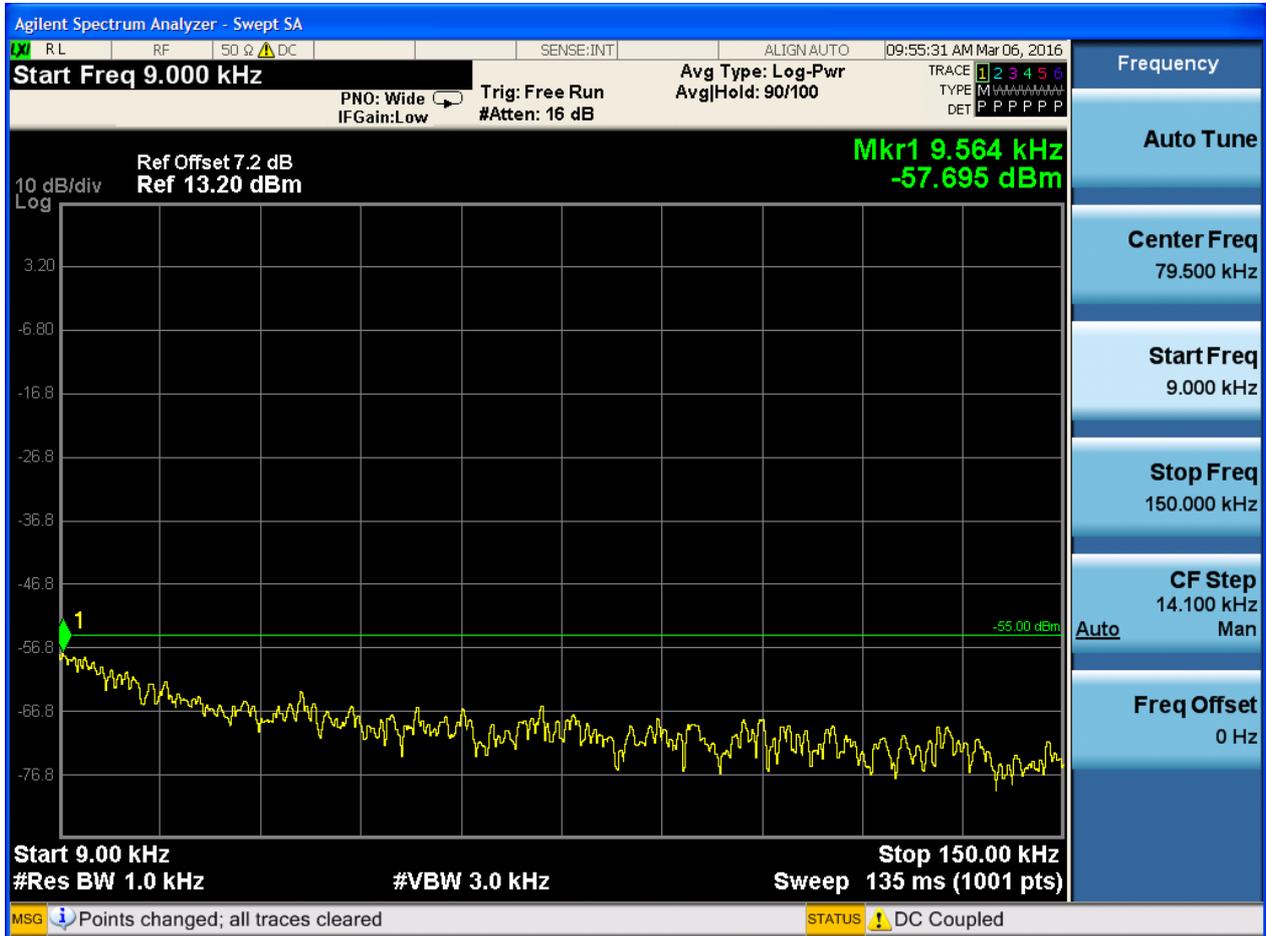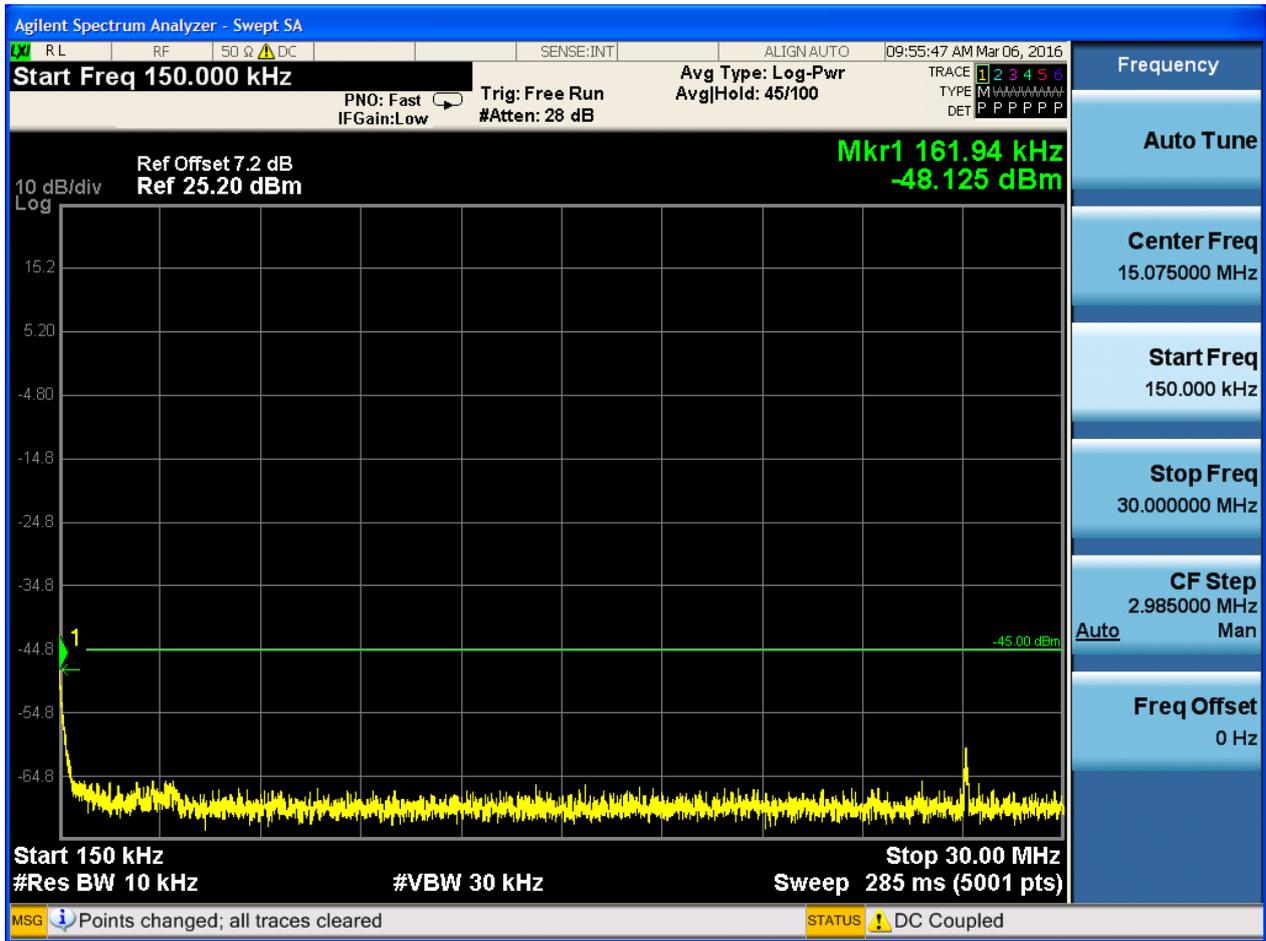
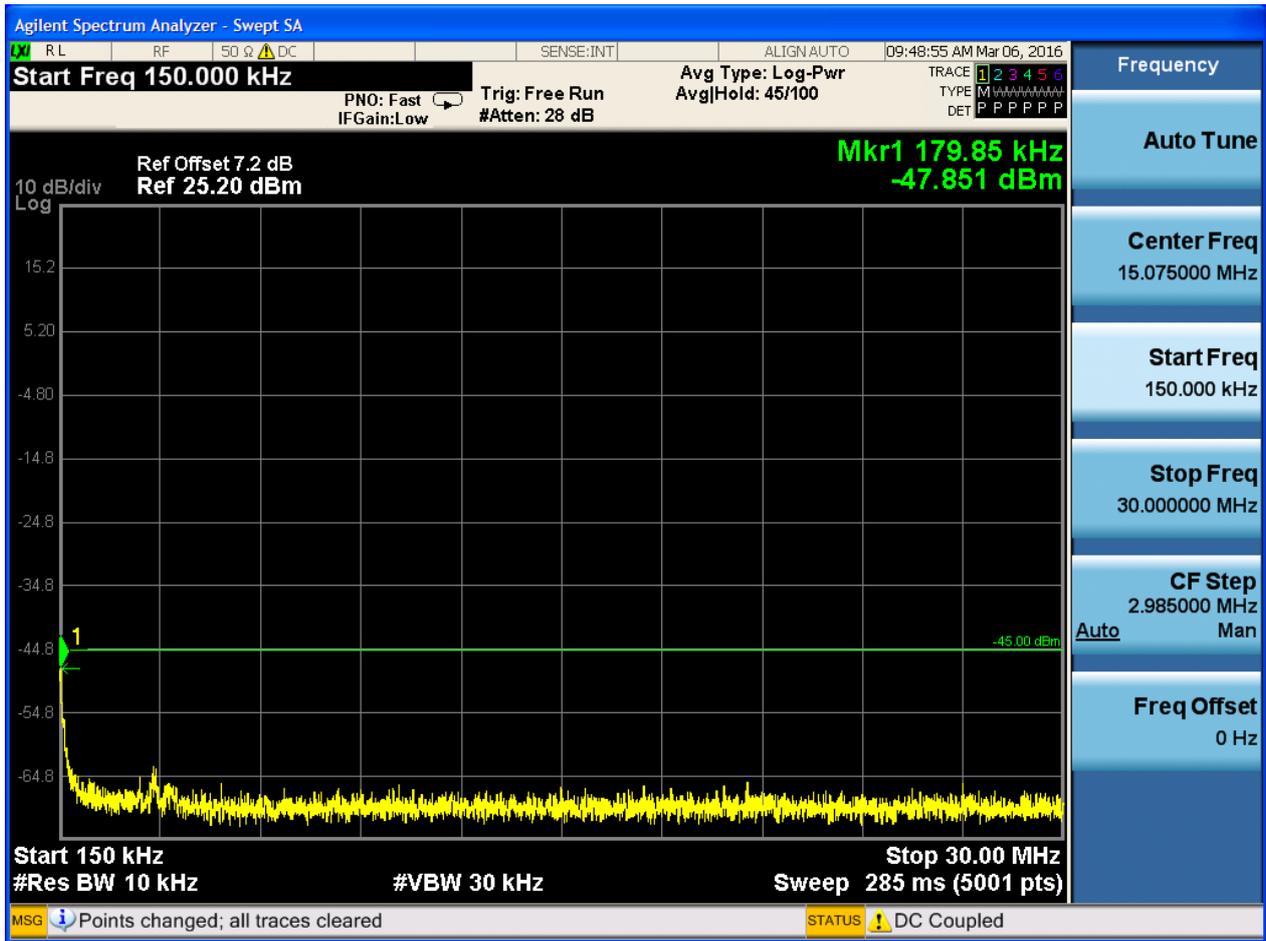### 6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0
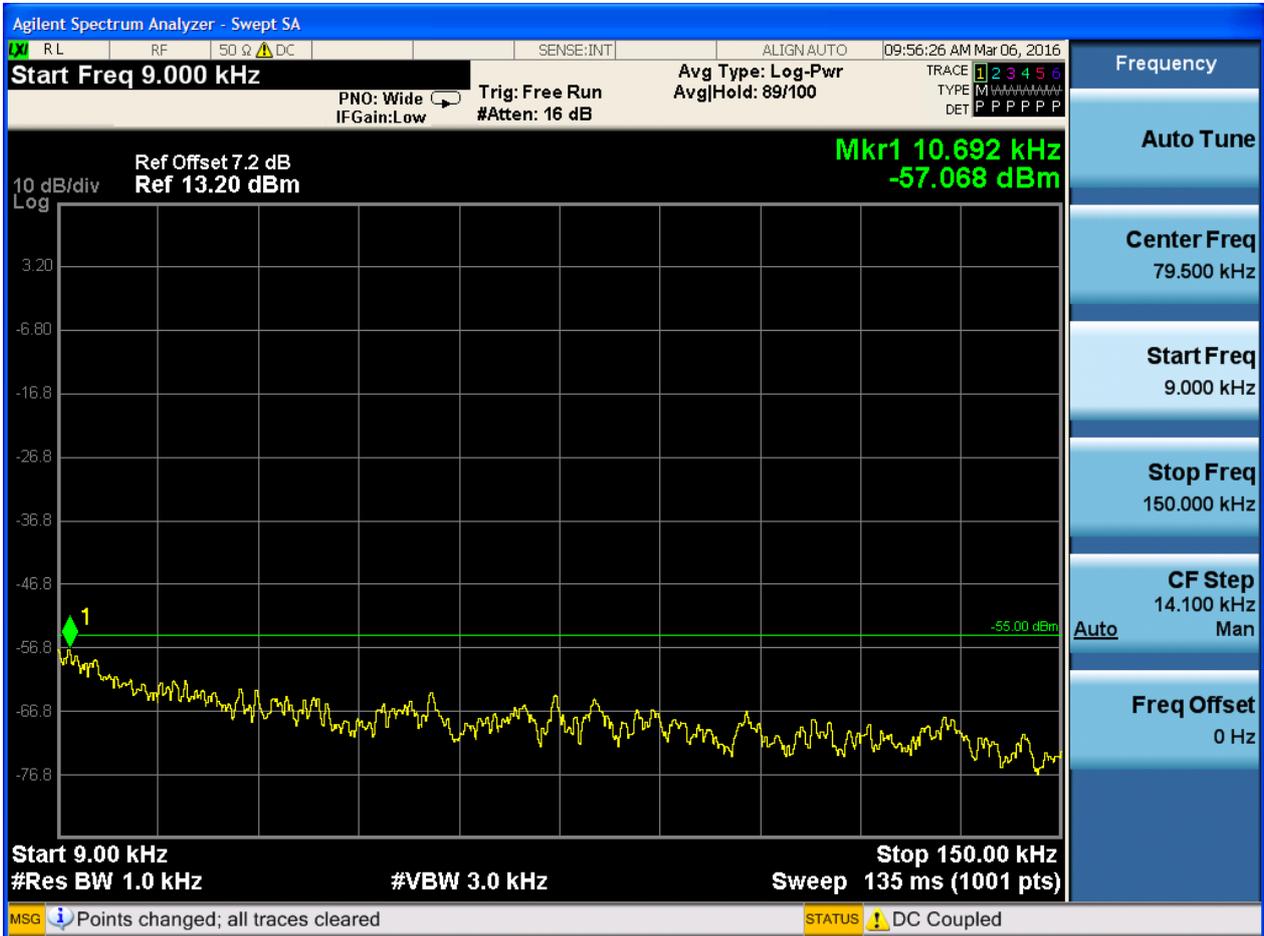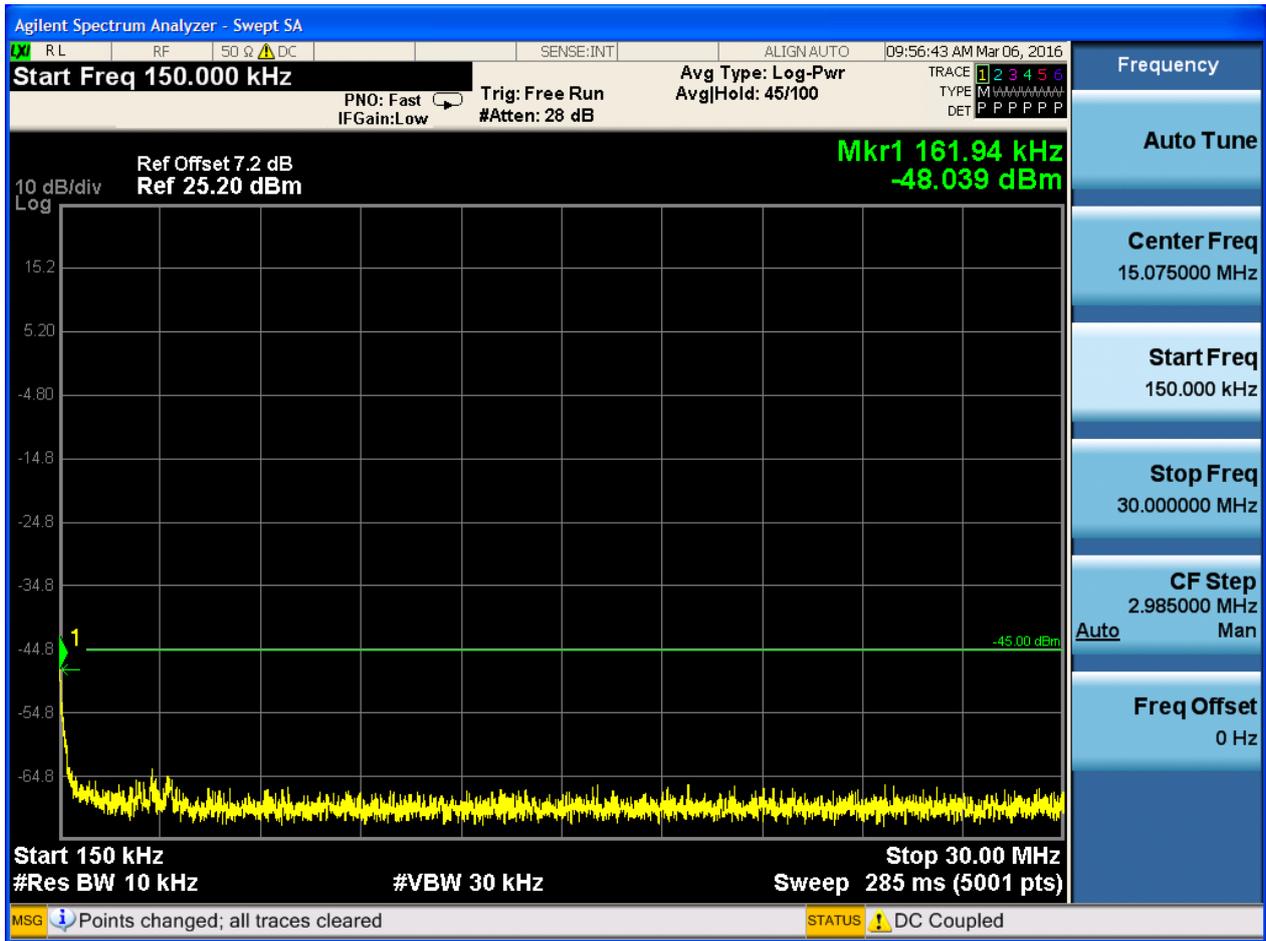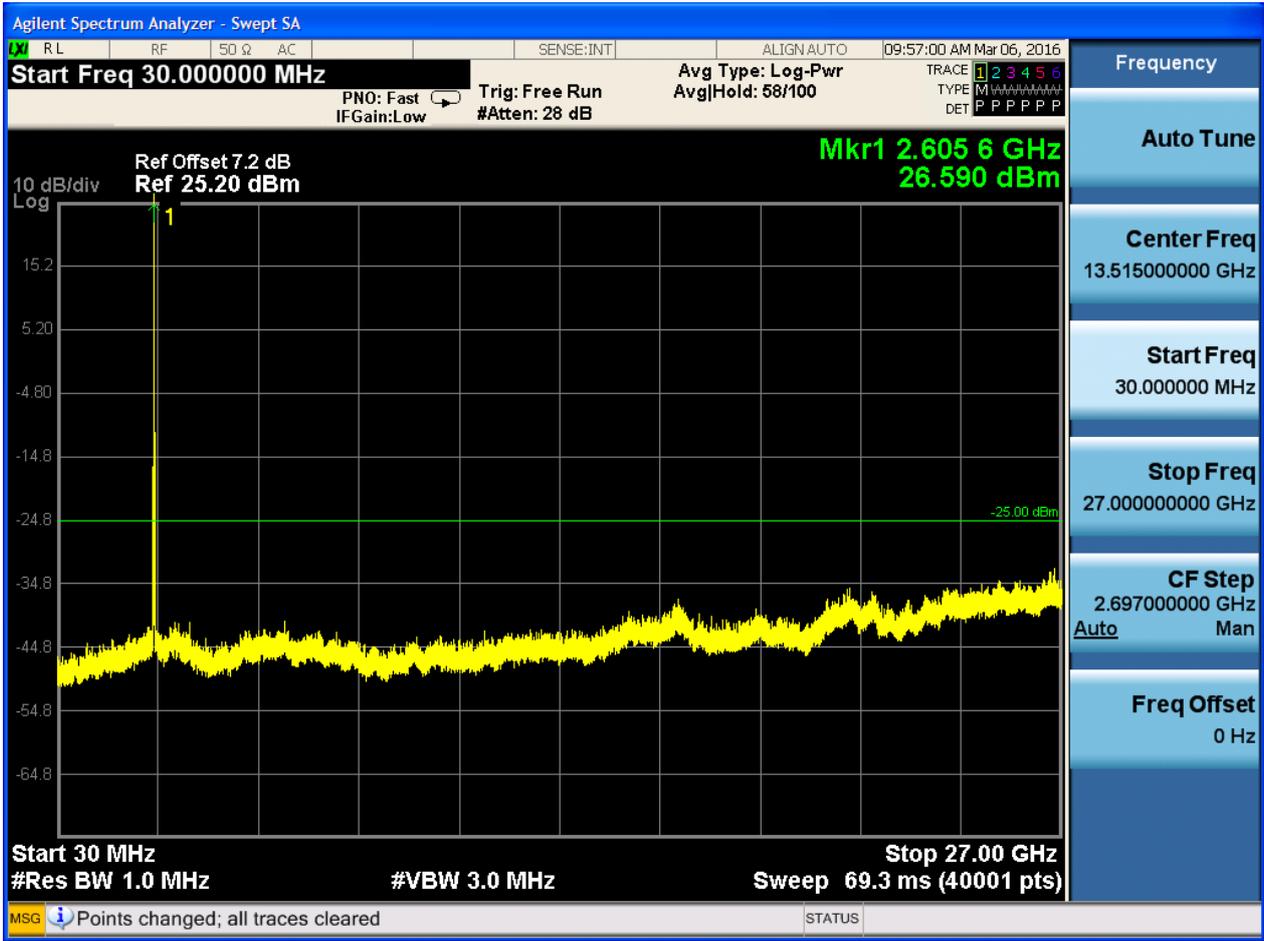
6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

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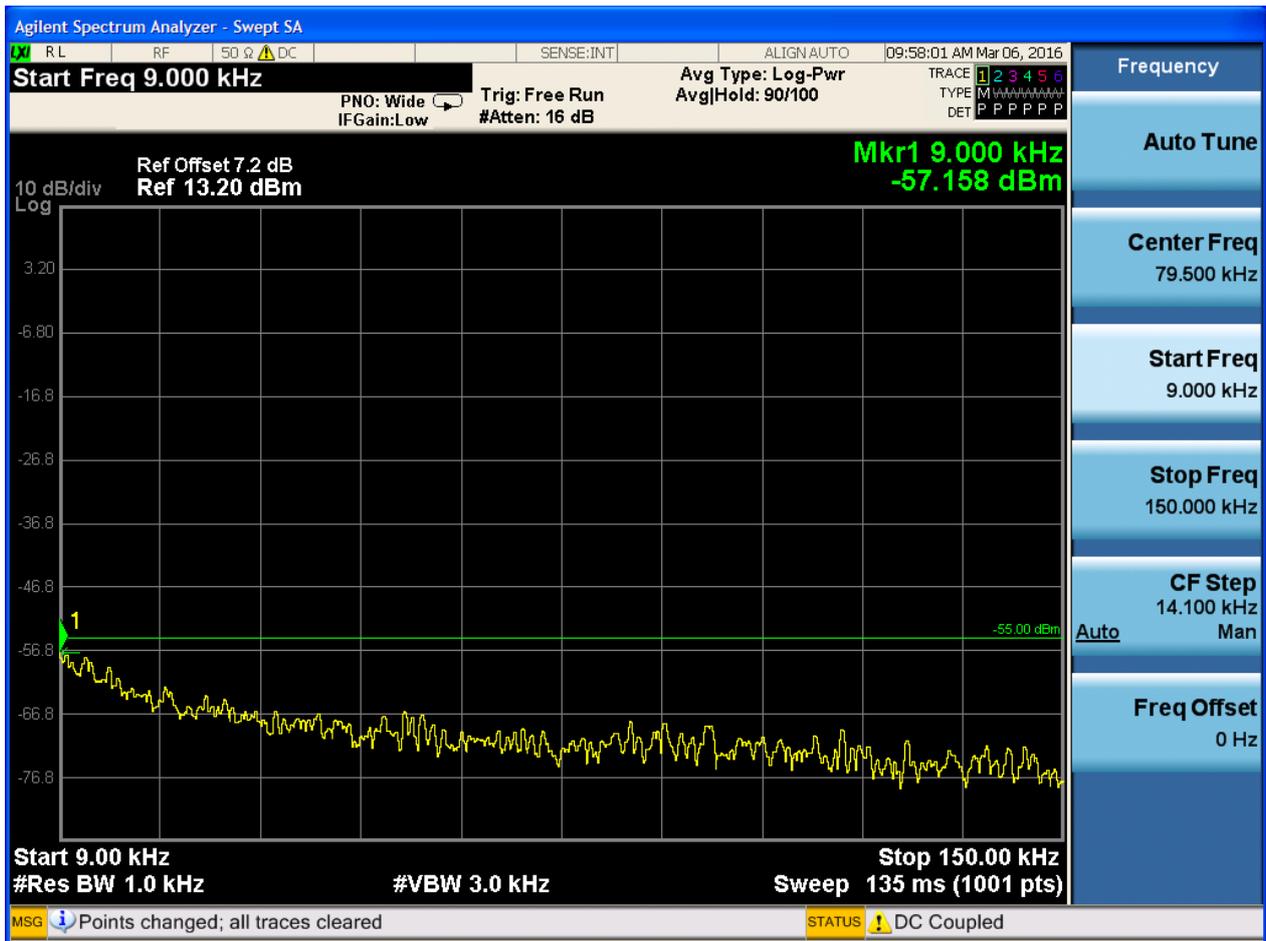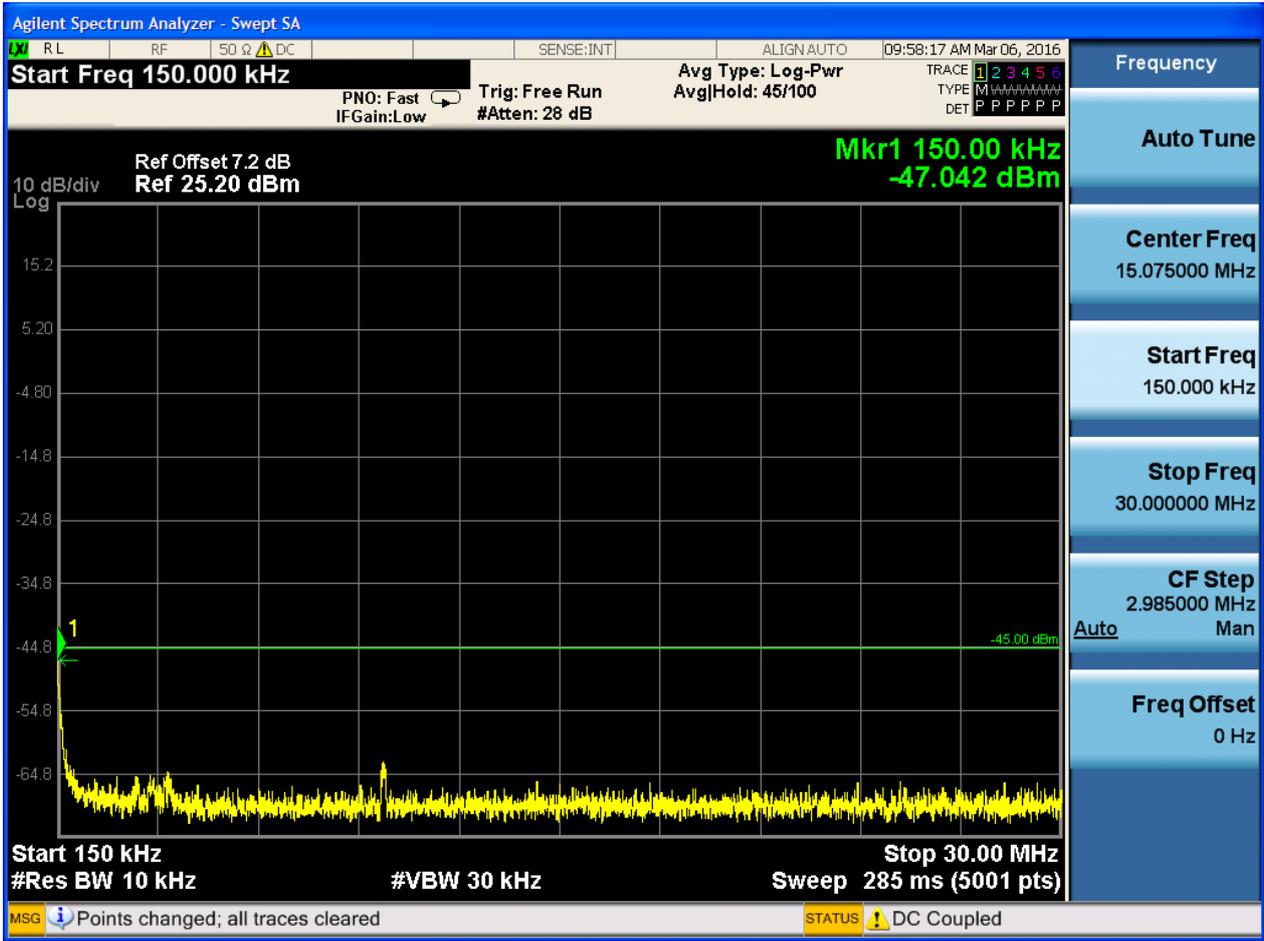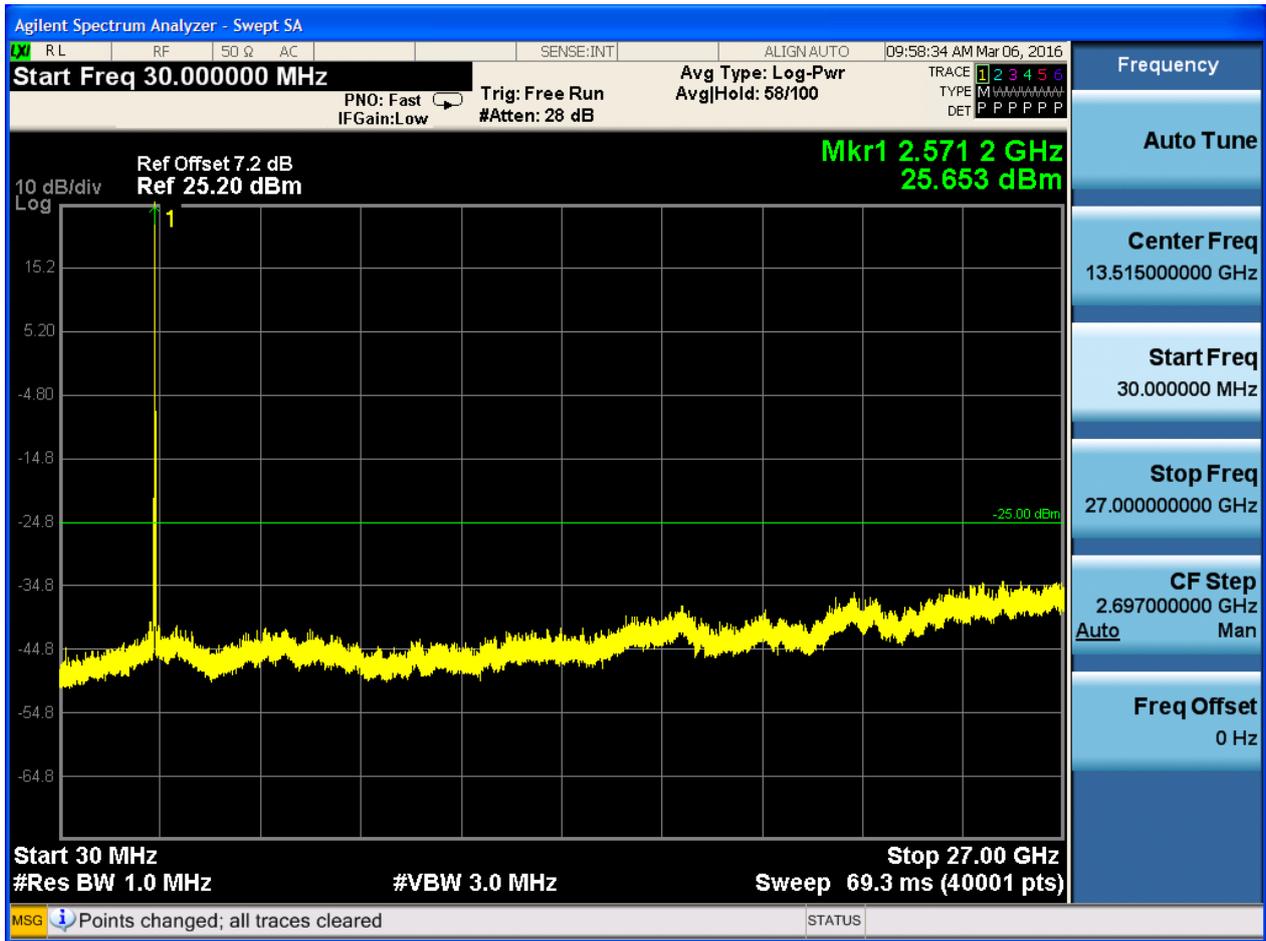
6.1.1.2.4.2 Test Channel = MCH
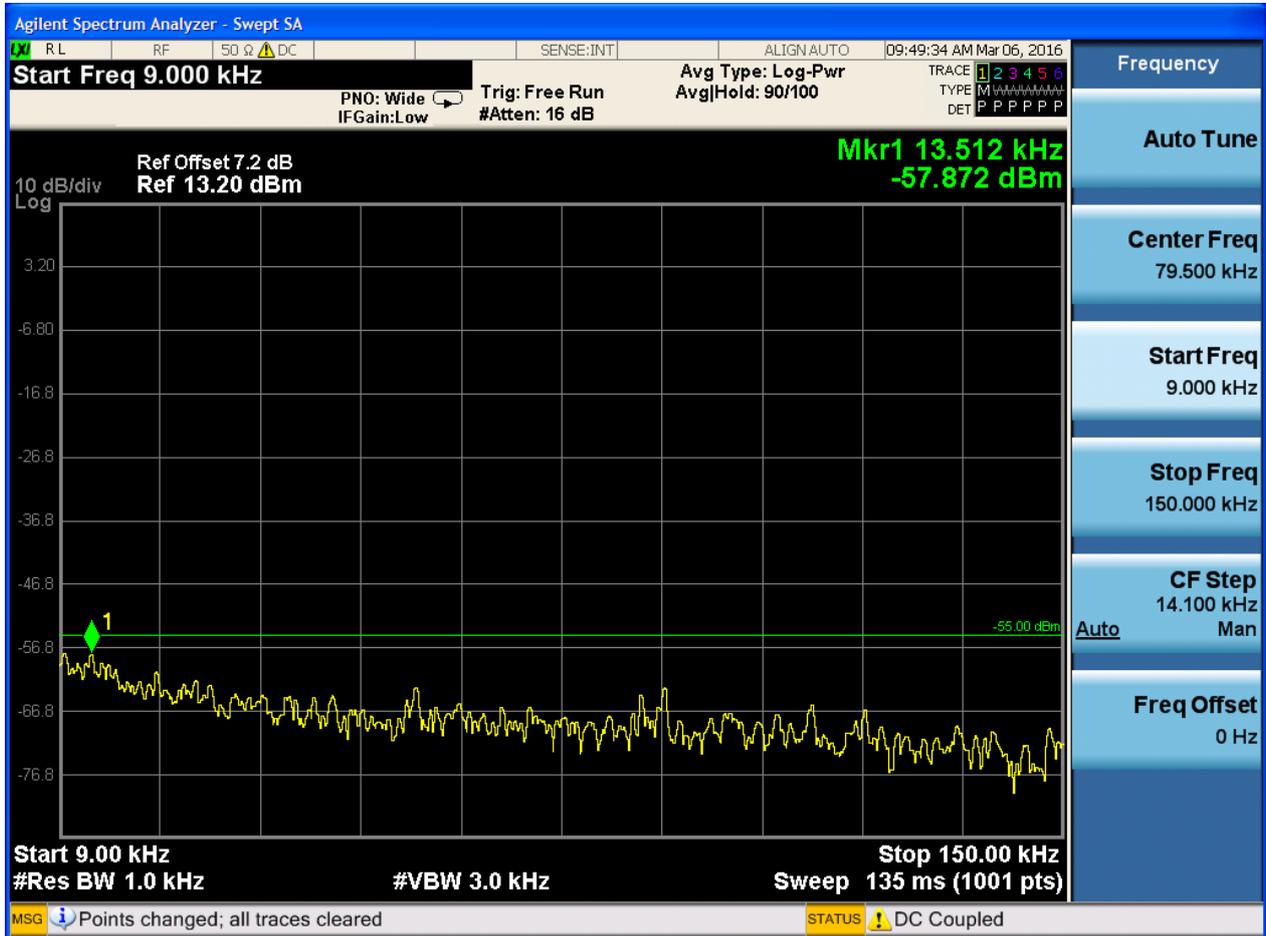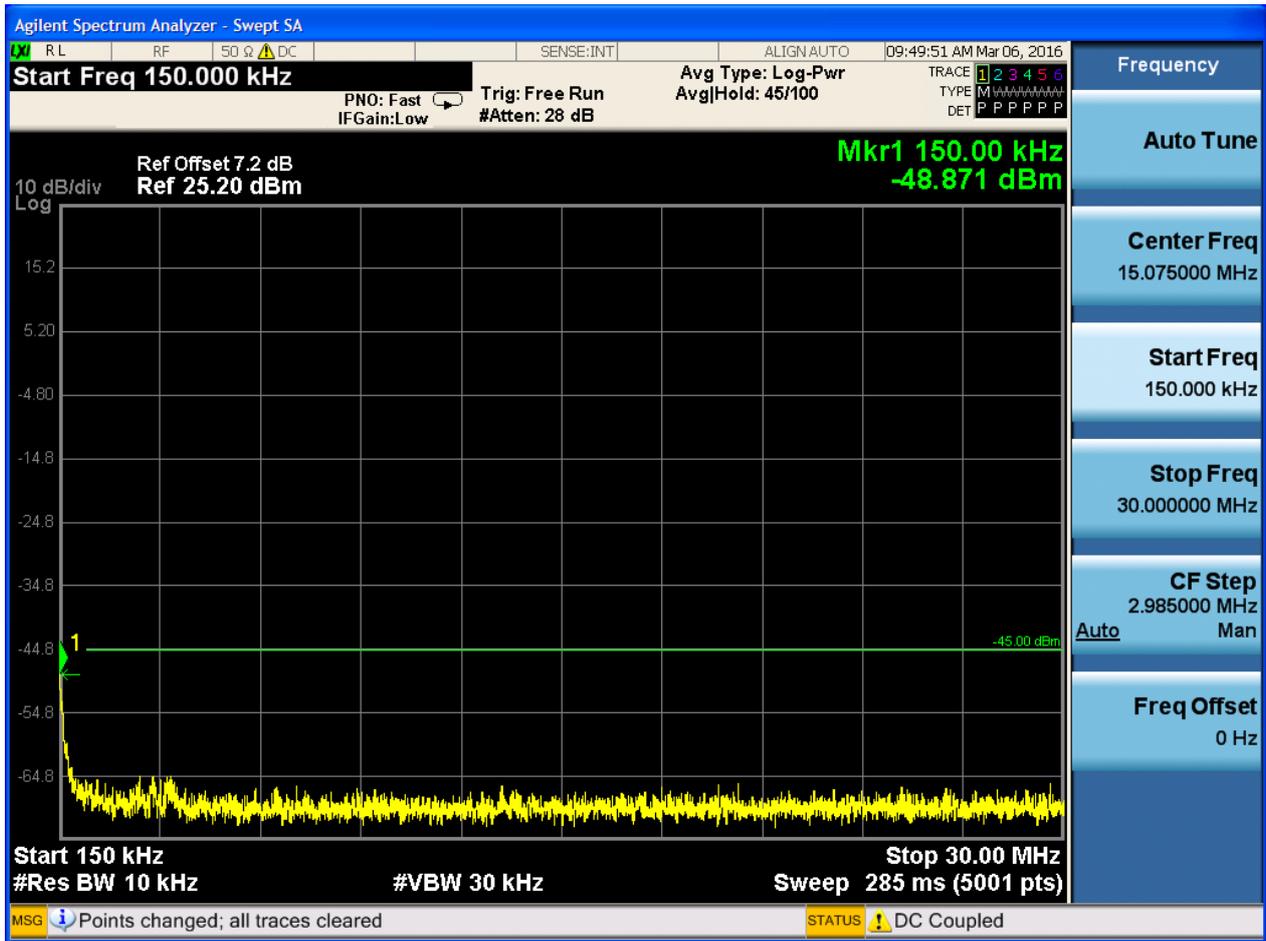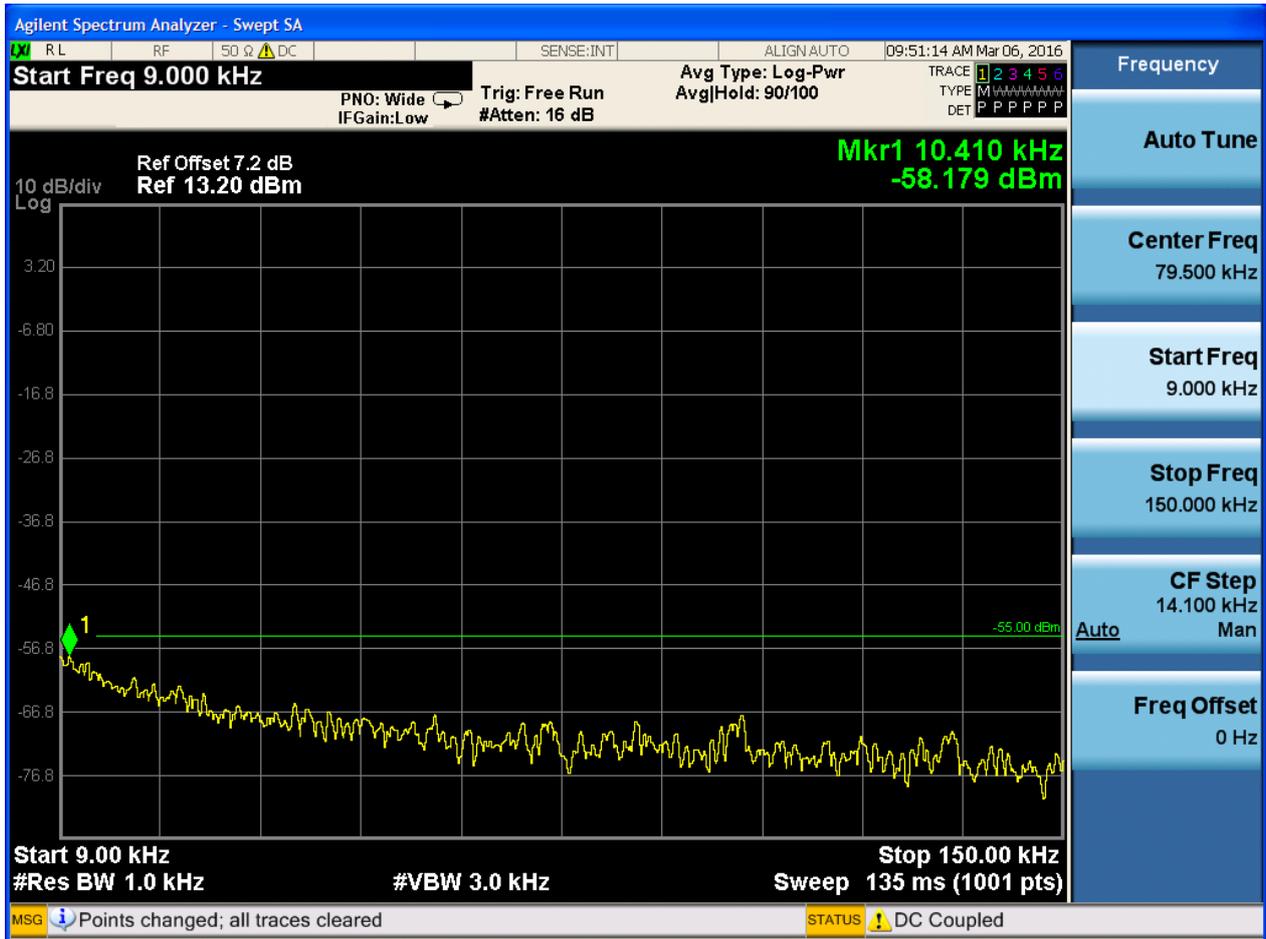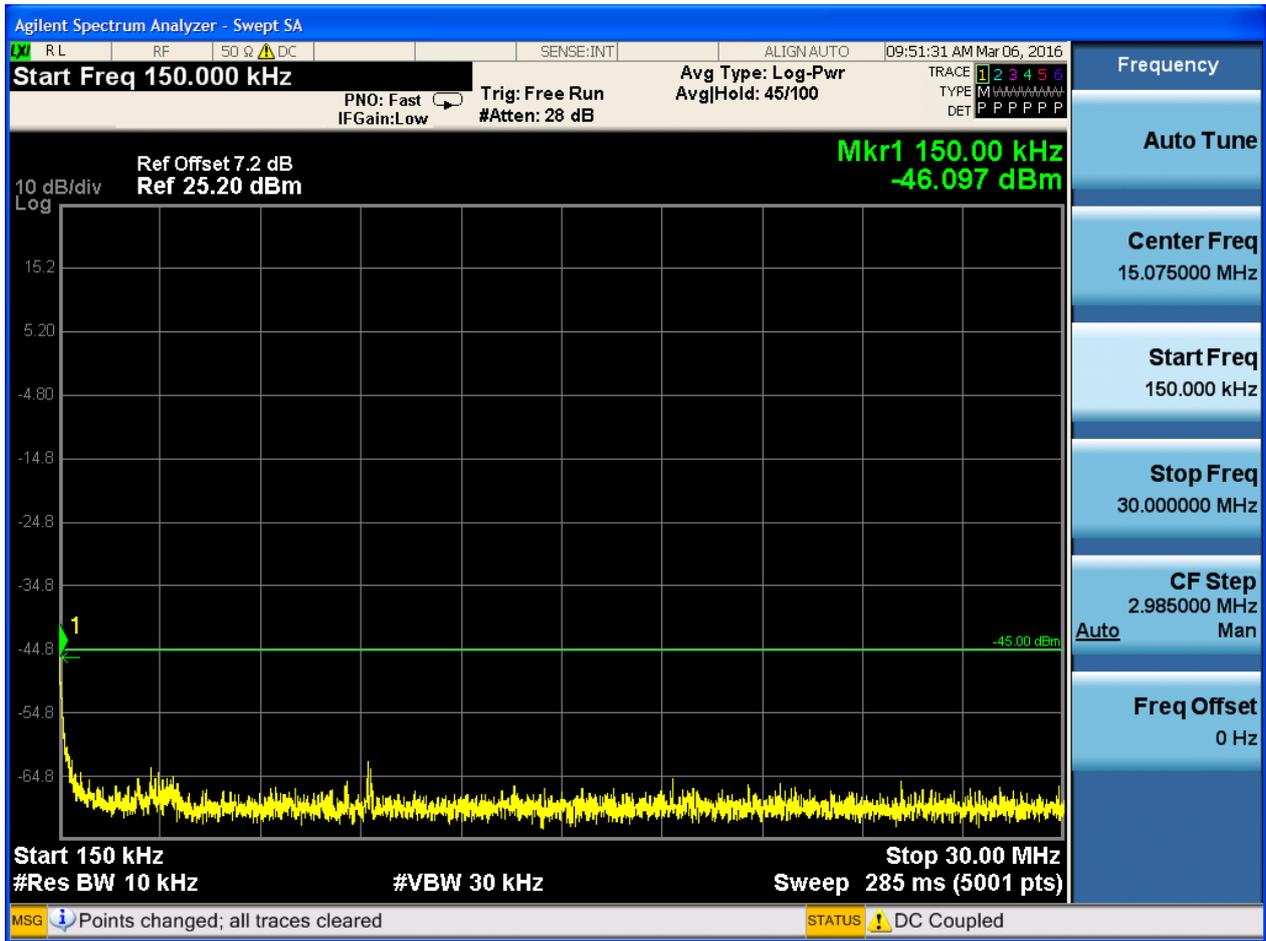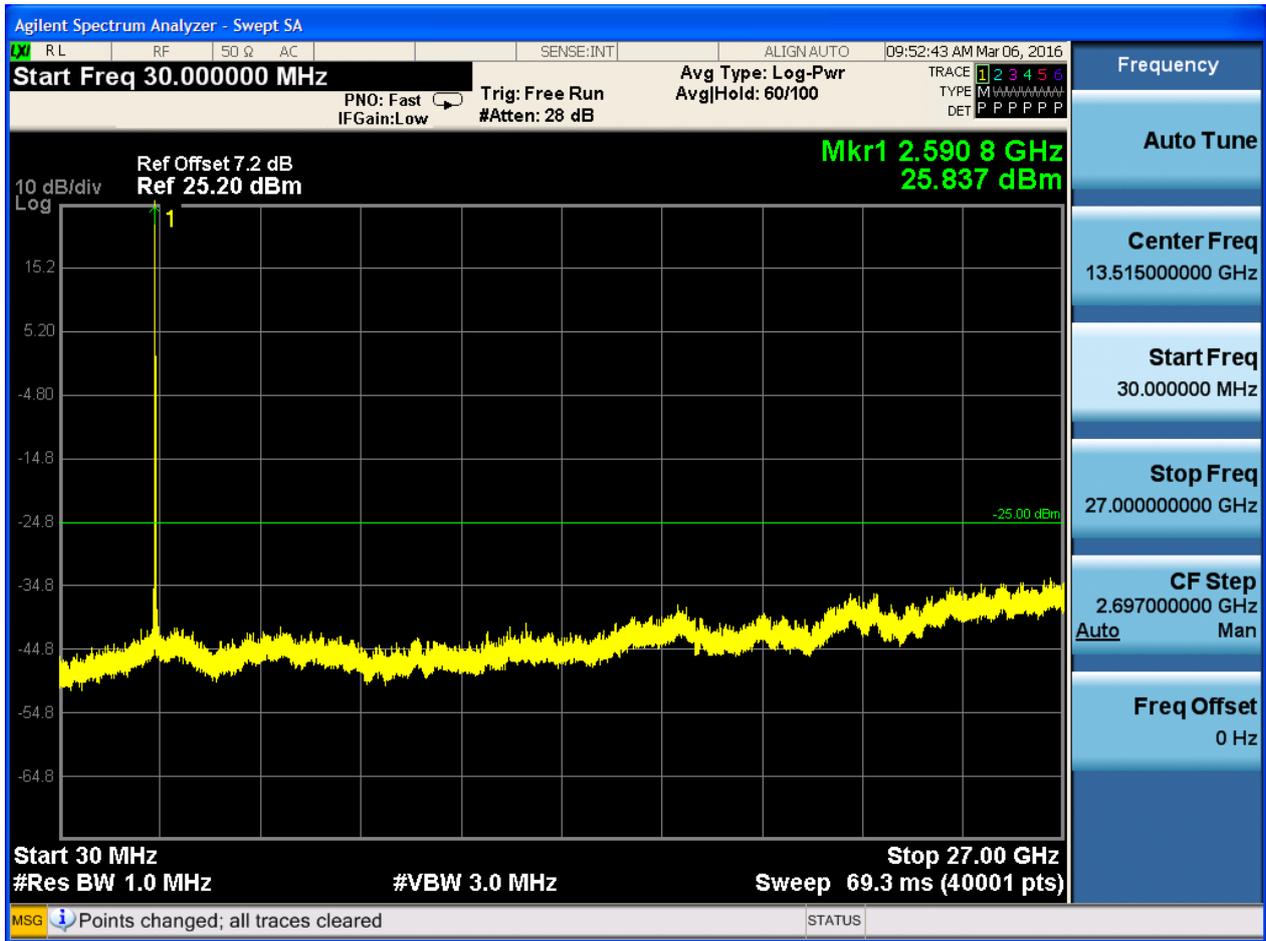
6.1.1.2.4.2.1 Test RB = RB1#0
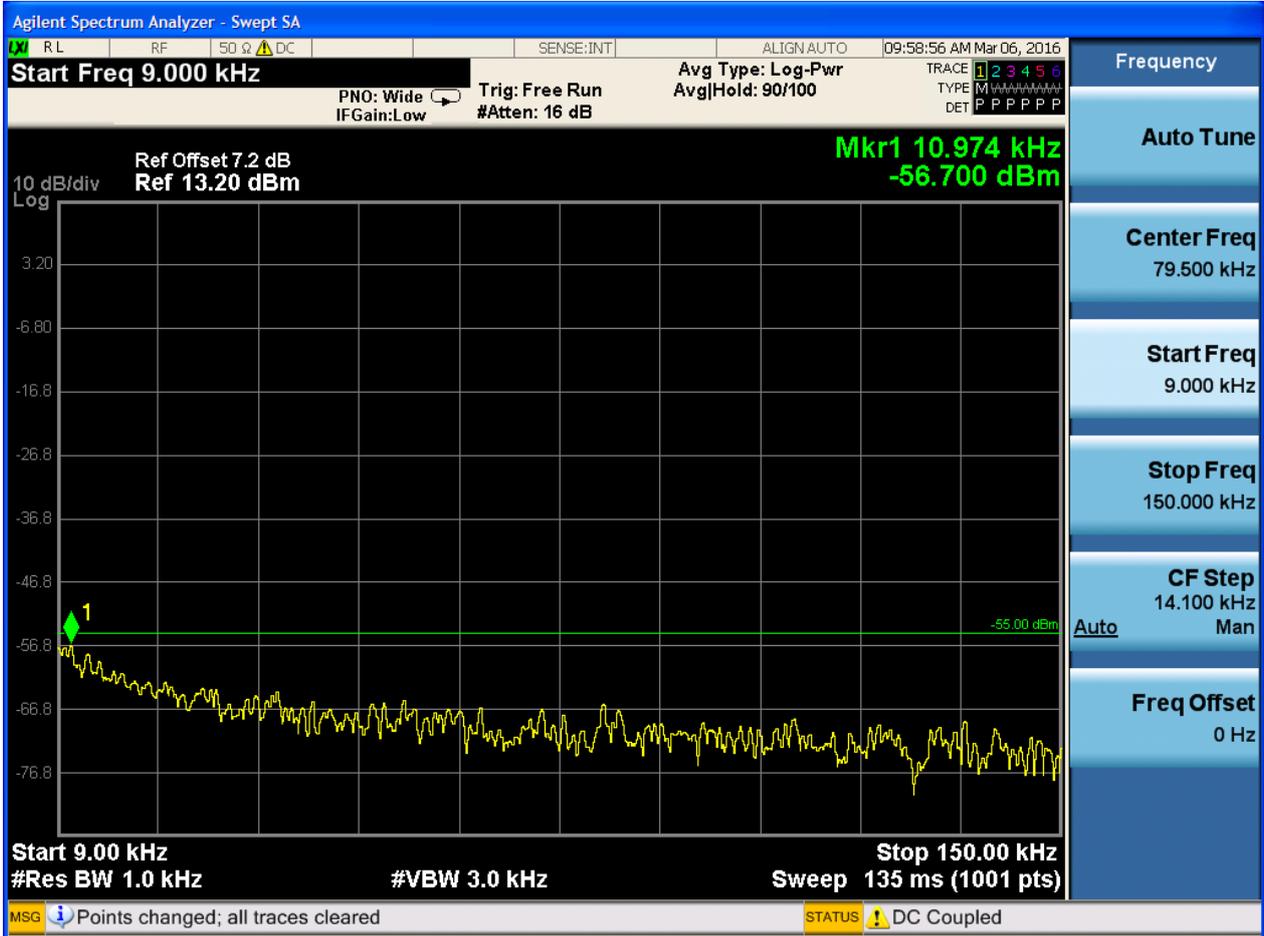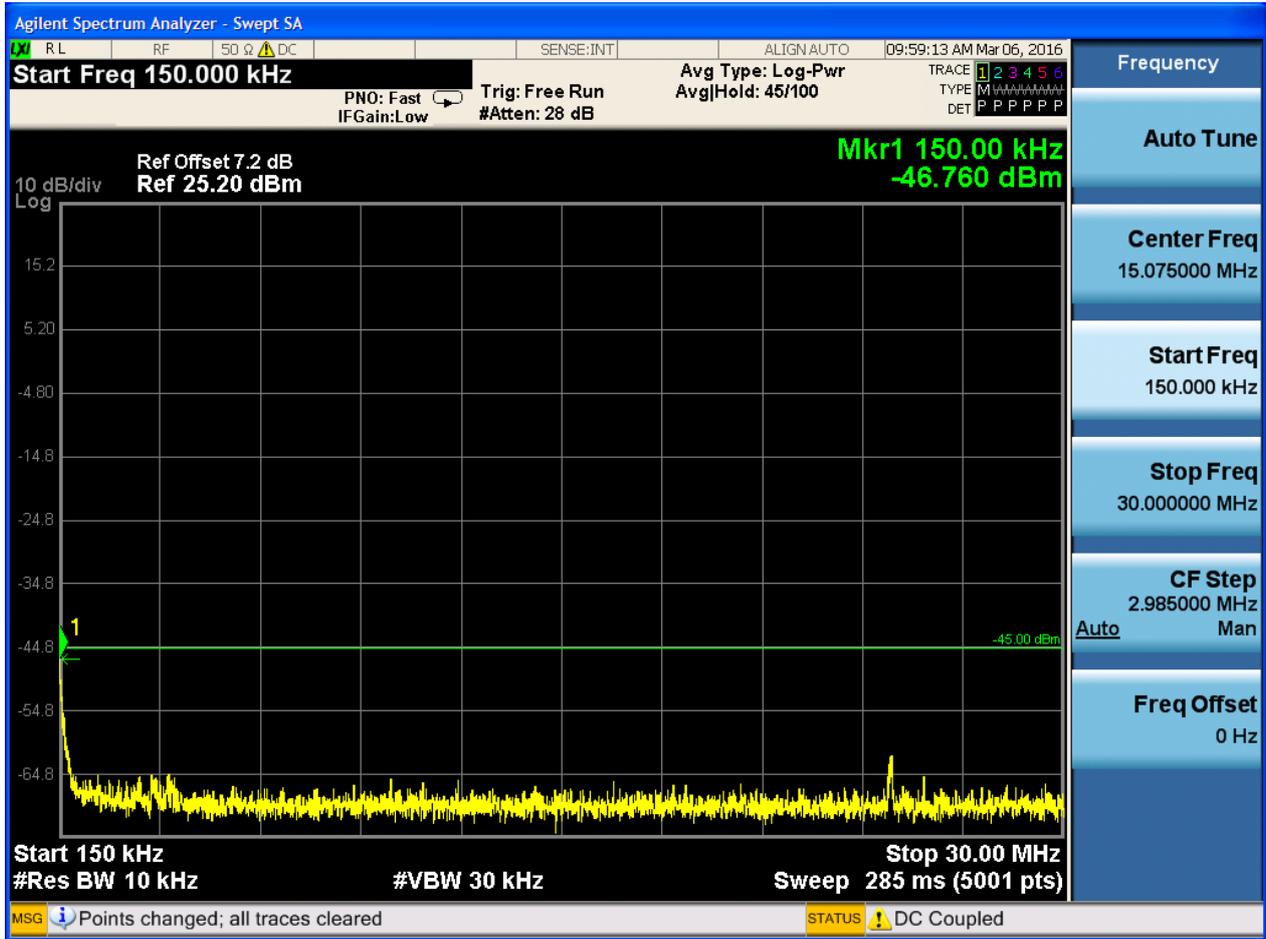
6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0

Agilent Spectrum Analyzer - Swept SA		

Start Freq 150.000 kHz

PNO: Fast
IFGain:Low

Trig: Free Run
#Atten: 28 dB

Avg Type: Log-Pwr
Avg|Hold: 45/100

SENSE:INT   ALIGN AUTO   10:00:09 AM Mar 06, 2016

Ref Offset 7.2 dB
Ref 25.20 dBm
10 dB/div
Log

Mkr1 155.97 kHz
-48.168 dBm

-45.00 dBm

Start 150 kHz
#Res BW 10 kHz   #VBW 30 kHz   Stop 30.00 MHz
                                             Sweep 285 ms (5001 pts)

MSG Points changed; all traces cleared   STATUS DC Coupled

Frequency

Auto Tune

Center Freq
15.075000 MHz

Start Freq
150.000 kHz

Stop Freq
30.000000 MHz

CF Step
2.985000 MHz
Auto   Man

Freq Offset
0 Hz

7Appendix_G: Field Strength of Spurious Radiation

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

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

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

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

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

Part I - Test Plots

7.1 For LTE

7.1.1 Test Band = BAND38

7.1.1.1 Test Bandwidth = 5
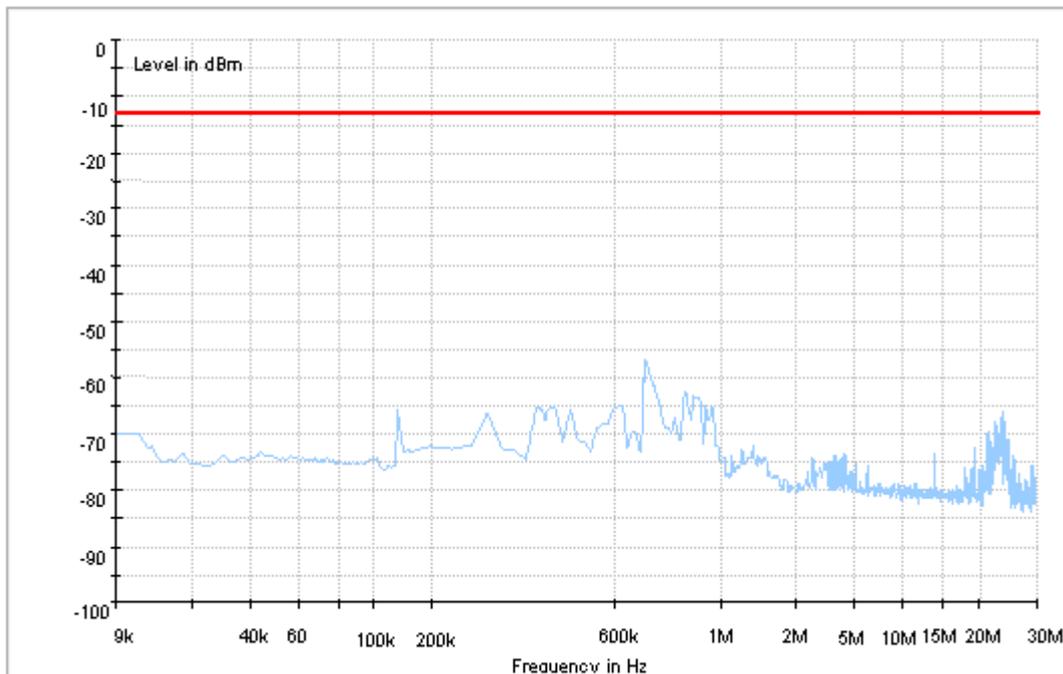
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L
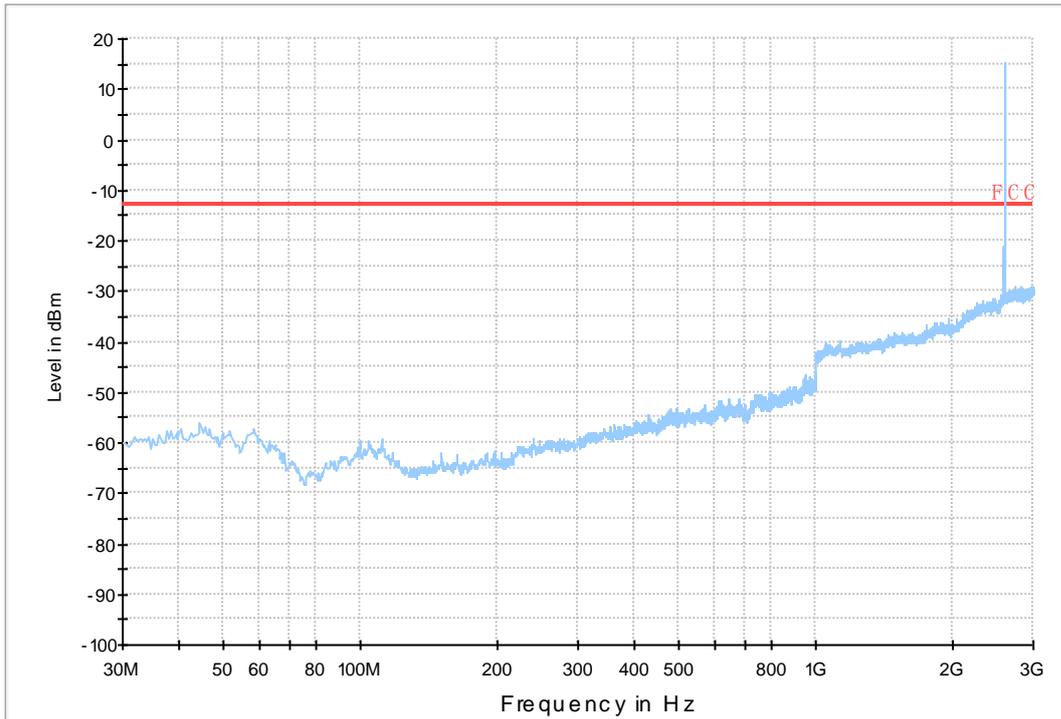
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H
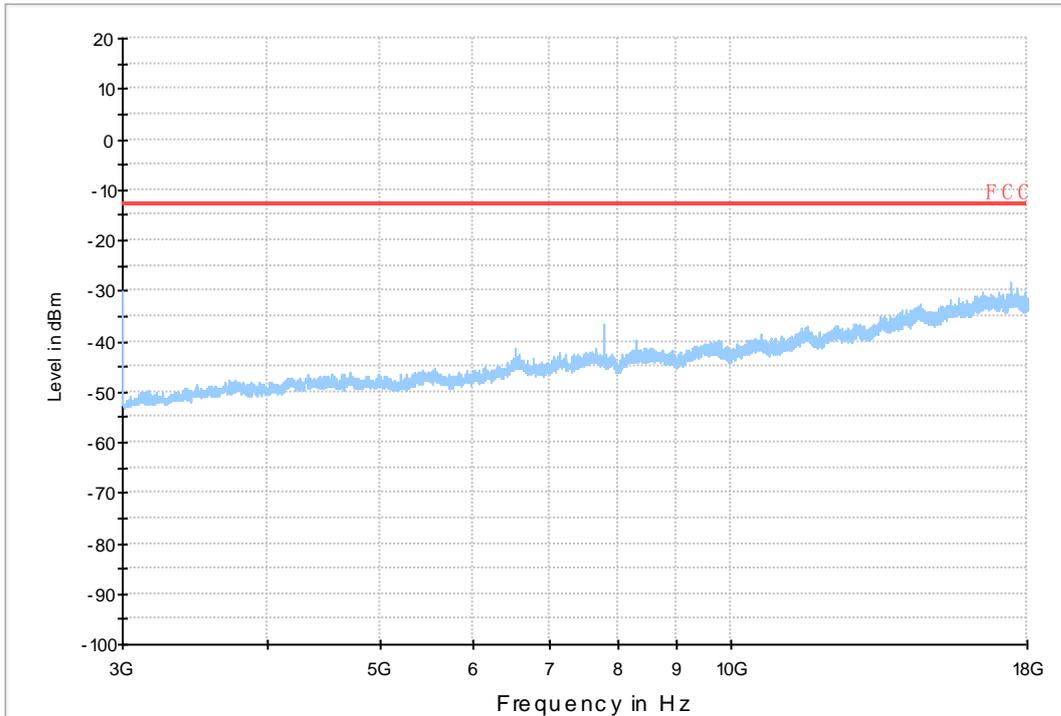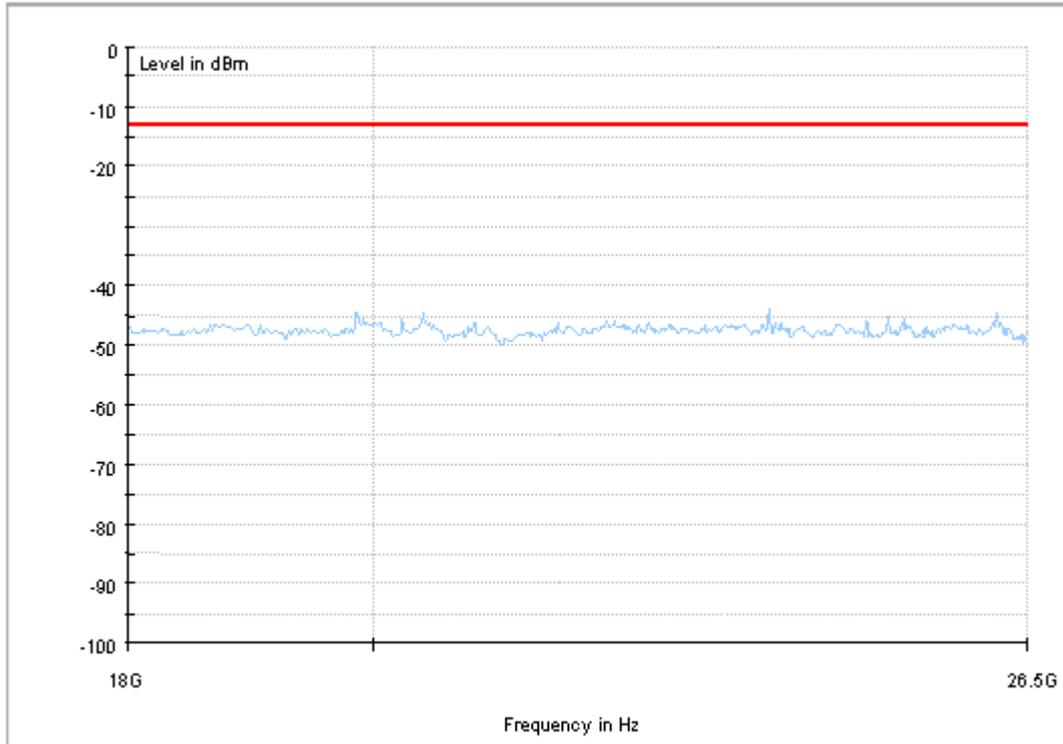
7.1.1.2 Test Bandwidth = 20
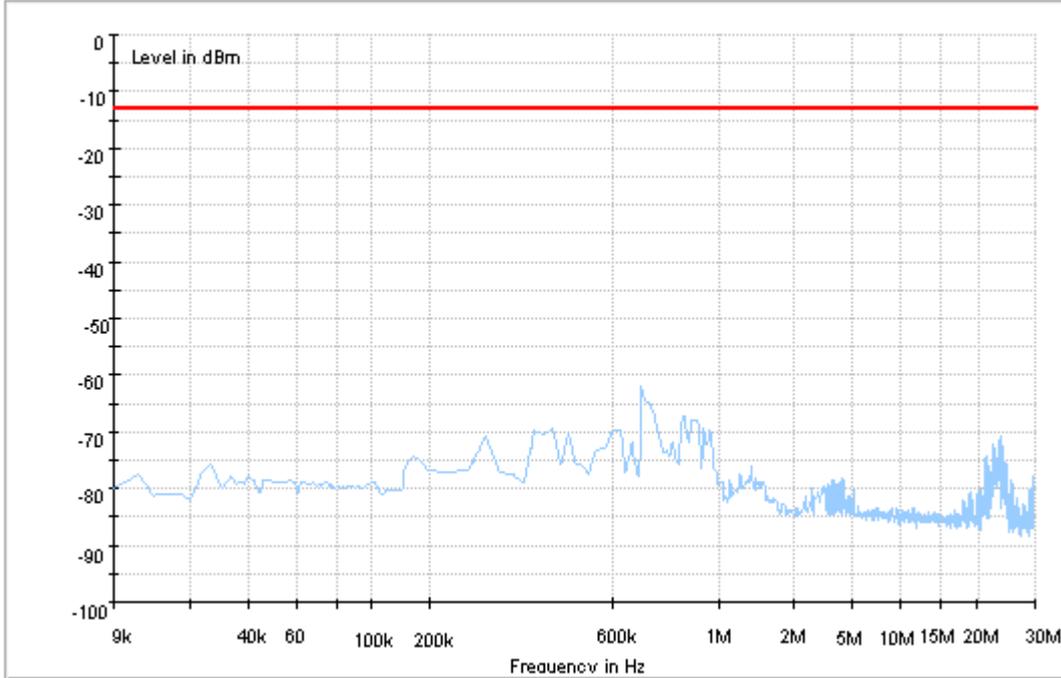
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L
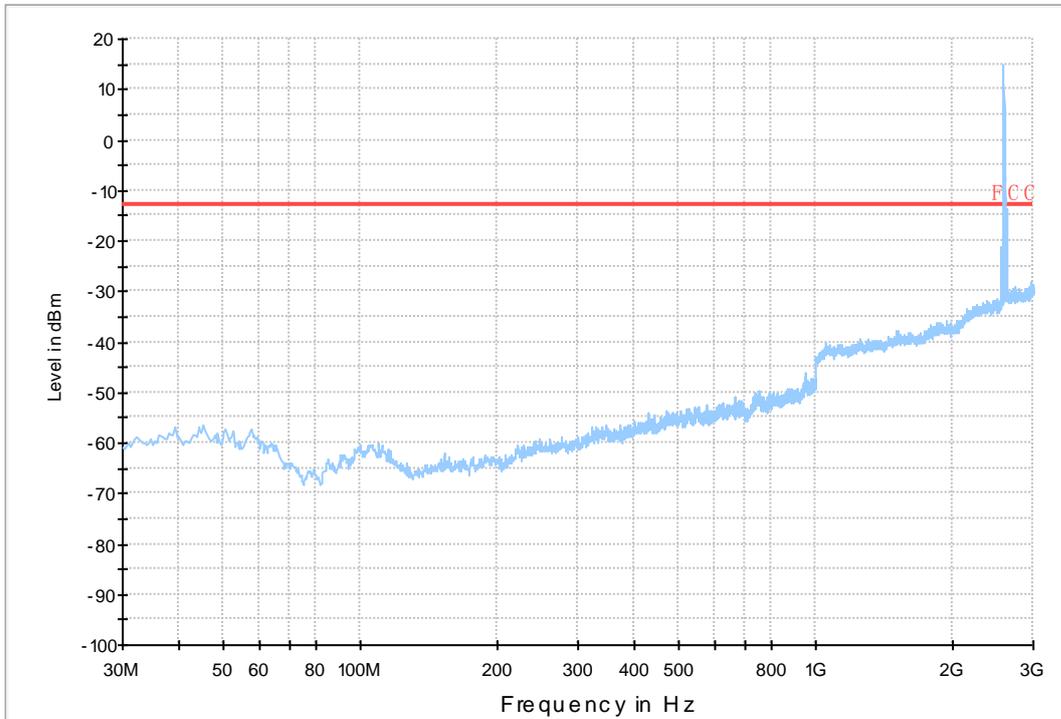
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H
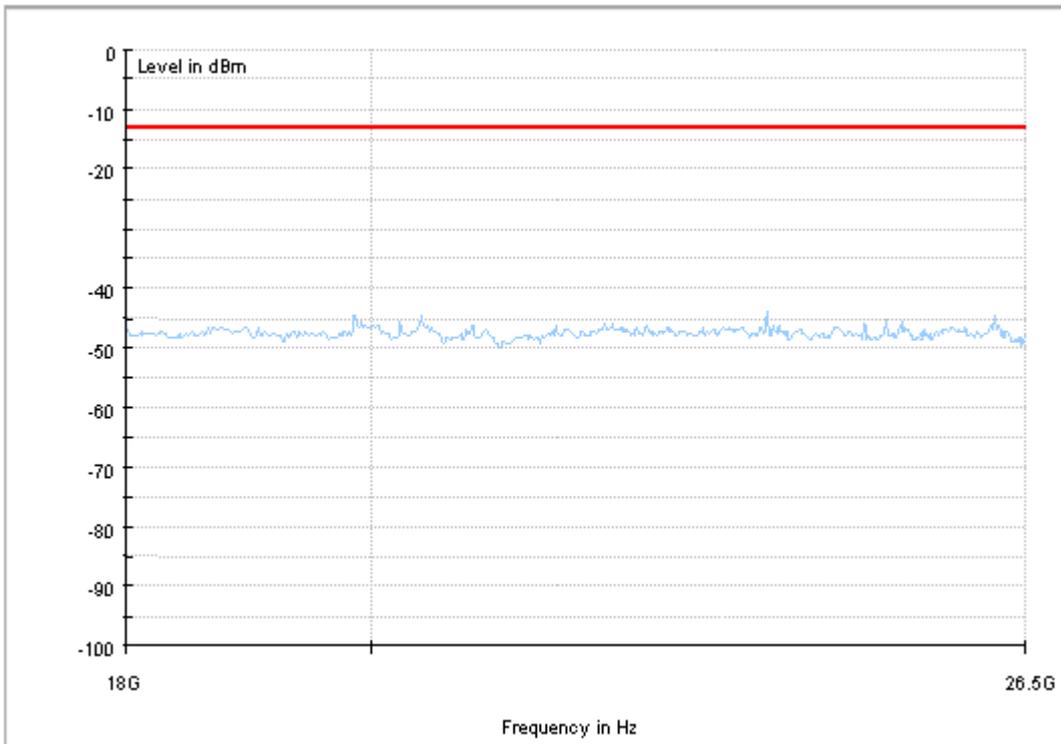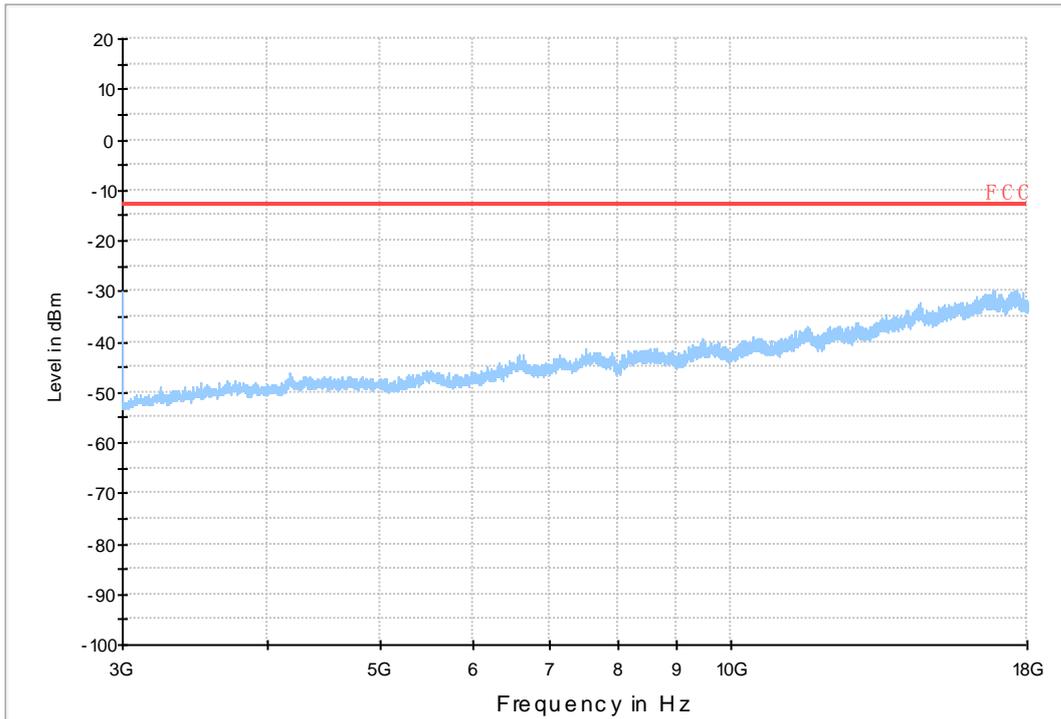
8Appendix_H: Frequency Stability

8.1 For 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
BAND38	LTE/TM1	5	LCH	TN	VL	1.85	0.00072	PASS
					VN	-2.36	-0.00092	PASS
					VH	-1.4	-0.00054	PASS
			MCH	TN	VL	-6.12	-0.00236	PASS
					VN	0.19	0.00007	PASS
					VH	-5.35	-0.00206	PASS
			HCH	TN	VL	-4.06	-0.00155	PASS
					VN	-1.19	-0.00045	PASS
					VH	-3.49	-0.00133	PASS
		10	LCH	TN	VL	4.35	0.00169	PASS
					VN	2.69	0.00104	PASS
					VH	0.94	0.00037	PASS
			MCH	TN	VL	-2.13	-0.00082	PASS
					VN	-1.43	-0.00055	PASS
					VH	-3.99	-0.00154	PASS
			HCH	TN	VL	-1.29	-0.00049	PASS
					VN	-3.82	-0.00146	PASS
					VH	-9.21	-0.00352	PASS
		15	LCH	TN	VL	-1.12	-0.00043	PASS
					VN	3.81	0.00148	PASS
					VH	-2.65	-0.00103	PASS
			MCH	TN	VL	-4.46	-0.00172	PASS
					VN	-2.65	-0.00102	PASS
					VH	-6.07	-0.00234	PASS
			HCH	TN	VL	-5.84	-0.00224	PASS
					VN	-2.62	-0.001	PASS
					VH	-27.52	-0.01053	PASS
		20	LCH	TN	VL	-0.43	-0.00017	PASS
					VN	0.83	0.00032	PASS
					VH	1.63	0.00063	PASS
			MCH	TN	VL	-4.52	-0.00174	PASS
					VN	-1.56	-0.0006	PASS
					VH	-3.98	-0.00153	PASS
			HCH	TN	VL	-1.12	-0.00043	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	-0.00087	PASS
					VH	-6.54	-0.00251	PASS
			LCH	TN	VL	4.41	0.00171	PASS
					VN	8.33	0.00324	PASS
					VH	3.56	0.00138	PASS
		5	MCH	TN	VL	-4.28	-0.00165	PASS
					VN	-6.09	-0.00235	PASS
					VH	-4.12	-0.00159	PASS
			HCH	TN	VL	-3.96	-0.00151	PASS
					VN	-1.69	-0.00065	PASS
					VH	-2.9	-0.00111	PASS
			LCH	TN	VL	2.3	0.00089	PASS
					VN	1.26	0.00049	PASS
					VH	0	0	PASS
		10	MCH	TN	VL	-7.42	-0.00286	PASS
					VN	-3.13	-0.00121	PASS
					VH	-4.21	-0.00162	PASS
			HCH	TN	VL	-5.21	-0.00199	PASS
	LTE/TM2				VN	-3.08	-0.00118	PASS
					VH	-2.68	-0.00102	PASS
			LCH	TN	VL	-3.18	-0.00123	PASS
					VN	-10.69	-0.00415	PASS
					VH	-8.18	-0.00317	PASS
		15	MCH	TN	VL	-5.24	-0.00202	PASS
					VN	-5.32	-0.00205	PASS
					VH	-3.82	-0.00147	PASS
			HCH	TN	VL	-5.01	-0.00192	PASS
					VN	-1.32	-0.00051	PASS
					VH	-7.27	-0.00278	PASS
			LCH	TN	VL	1	0.00039	PASS
					VN	-0.37	-0.00014	PASS
					VH	-2.83	-0.0011	PASS
		20	MCH	TN	VL	-4.38	-0.00169	PASS
					VN	-6.18	-0.00238	PASS
					VH	-5.45	-0.0021	PASS
			HCH	TN	VL	-0.97	-0.00037	PASS
					VN	-1.89	-0.00072	PASS
					VH	-4.13	-0.00158	PASS

8.1.2Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND38	LTE/TM1	5	LCH	VN	-30	-1.2	-0.00047	PASS
					-20	1.72	0.00067	PASS
					-10	4.26	0.00166	PASS
					0	1.76	0.00068	PASS
					10	-0.06	-0.00002	PASS
					20	0.5	0.00019	PASS
					30	-1.56	-0.00061	PASS
					40	-0.31	-0.00012	PASS
					50	-4.11	-0.0016	PASS
			MCH	VN	-30	-1.72	-0.00066	PASS
					-20	0.54	0.00021	PASS
					-10	-4.16	-0.0016	PASS
					0	-1.26	-0.00049	PASS
					10	-2.93	-0.00113	PASS
					20	-1.63	-0.00063	PASS
					30	-5.32	-0.00205	PASS
					40	-2.73	-0.00105	PASS
					50	-0.64	-0.00025	PASS
			HCH	VN	-30	-7.72	-0.00295	PASS
					-20	-5.24	-0.002	PASS
					-10	-3.4	-0.0013	PASS
					0	-3.85	-0.00147	PASS
					10	-2.85	-0.00109	PASS
					20	-2.03	-0.00078	PASS
					30	11.57	0.00442	PASS
					40	-3.1	-0.00118	PASS
					50	-3.59	-0.00137	PASS
		10	LCH	VN	-30	-0.94	-0.00037	PASS
					-20	-0.37	-0.00014	PASS
					-10	-14.33	-0.00557	PASS
					0	2.88	0.00112	PASS
					10	-0.34	-0.00013	PASS
					20	-2.39	-0.00093	PASS
					30	-7.3	-0.00283	PASS
					40	-4.13	-0.0016	PASS
					50	-2.8	-0.00109	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	VN	-30	-5.05	-0.00195	PASS
					-20	-9.96	-0.00384	PASS
					-10	-2.93	-0.00113	PASS
					0	-2.79	-0.00108	PASS
					10	-0.24	-0.00009	PASS
					20	-2.79	-0.00108	PASS
					30	-1.46	-0.00056	PASS
					40	-5.69	-0.00219	PASS
					50	1.83	0.00071	PASS
			HCH	VN	-30	0.72	0.00028	PASS
					-20	0.66	0.00025	PASS
					-10	1.17	0.00045	PASS
					0	3.16	0.00121	PASS
					10	-0.04	-0.00002	PASS
					20	-3.02	-0.00115	PASS
					30	0.99	0.00038	PASS
					40	-1.19	-0.00046	PASS
					50	-2.63	-0.00101	PASS
		15	LCH	VN	-30	3.86	0.0015	PASS
					-20	1.02	0.0004	PASS
					-10	-1.5	-0.00058	PASS
					0	0.86	0.00033	PASS
					10	-1.57	-0.00061	PASS
					20	-5.99	-0.00232	PASS
					30	-2.78	-0.00108	PASS
					40	-4.45	-0.00173	PASS
					50	-7.52	-0.00292	PASS
			MCH	VN	-30	-0.92	-0.00035	PASS
					-20	3.92	0.00151	PASS
					-10	-2.06	-0.00079	PASS
					0	-0.41	-0.00016	PASS
					10	0.76	0.00029	PASS
					20	18.15	0.00699	PASS
					30	3.73	0.00144	PASS
					40	-2.39	-0.00092	PASS
					50	-6.14	-0.00237	PASS
			HCH	VN	-30	-14.82	-0.00567	PASS
					-20	-2.82	-0.00108	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	-5.06	-0.00194	PASS
					0	-11.19	-0.00428	PASS
					10	-18.61	-0.00712	PASS
					20	-20.04	-0.00767	PASS
					30	-14.32	-0.00548	PASS
					40	-6.11	-0.00234	PASS
					50	-17.64	-0.00675	PASS
			LCH	VN	-30	-0.2	-0.00008	PASS
					-20	0.27	0.0001	PASS
					-10	-2.39	-0.00092	PASS
					0	-1.49	-0.00058	PASS
					10	-5.88	-0.00228	PASS
					20	-3.25	-0.00126	PASS
					30	-2.92	-0.00113	PASS
					40	-0.13	-0.00005	PASS
					50	-6.25	-0.00242	PASS
		20	MCH	VN	-30	-1.4	-0.00054	PASS
					-20	-5.81	-0.00224	PASS
					-10	-5.52	-0.00213	PASS
					0	-7.1	-0.00274	PASS
					10	-6.12	-0.00236	PASS
					20	-3.08	-0.00119	PASS
					30	-5.39	-0.00208	PASS
					40	-4.06	-0.00156	PASS
					50	-3.22	-0.00124	PASS
			HCH	VN	-30	-6.85	-0.00262	PASS
					-20	-2.29	-0.00088	PASS
					-10	-6.82	-0.00261	PASS
					0	-1.19	-0.00046	PASS
					10	-3.46	-0.00133	PASS
					20	2.19	0.00084	PASS
					30	-1.23	-0.00047	PASS
					40	0.07	0.00003	PASS
					50	-5.01	-0.00192	PASS
	LTE/TM2	5	LCH	VN	-30	4.05	0.00157	PASS
					-20	0.09	0.00003	PASS
					-10	1.44	0.00056	PASS
					0	5.65	0.0022	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-2.06	-0.0008	PASS
					20	-0.26	-0.0001	PASS
					30	0.89	0.00035	PASS
					40	4.09	0.00159	PASS
					50	-1.33	-0.00052	PASS
			MCH	VN	-30	-4.39	-0.00169	PASS
					-20	-9.53	-0.00367	PASS
					-10	-10.1	-0.00389	PASS
					0	-5.28	-0.00203	PASS
					10	0.17	0.00007	PASS
					20	0.31	0.00012	PASS
					30	-3.95	-0.00152	PASS
					40	-6.32	-0.00244	PASS
					50	-4.52	-0.00174	PASS
			HCH	VN	-30	57.06	0.0218	PASS
					-20	63.13	0.02412	PASS
					-10	52.66	0.02012	PASS
					0	61.13	0.02335	PASS
					10	55.27	0.02112	PASS
					20	60.83	0.02324	PASS
					30	52.8	0.02017	PASS
					40	52.81	0.02018	PASS
					50	51.74	0.01977	PASS
			LCH	VN	-30	-4.19	-0.00163	PASS
					-20	-1.34	-0.00052	PASS
					-10	-2.57	-0.001	PASS
					0	1.86	0.00072	PASS
					10	1.79	0.0007	PASS
					20	2.62	0.00102	PASS
					30	-2.92	-0.00113	PASS
		10			40	-7.87	-0.00306	PASS
					50	0.64	0.00025	PASS
			MCH	VN	-30	-7.34	-0.00283	PASS
					-20	-2.42	-0.00093	PASS
					-10	-6.25	-0.00241	PASS
					0	-3.59	-0.00138	PASS
					10	-1.43	-0.00055	PASS
					20	-4.19	-0.00161	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					30	-1.6	-0.00062	PASS
					40	-1.69	-0.00065	PASS
					50	-4.85	-0.00187	PASS
			HCH	VN	-30	-4.72	-0.0018	PASS
					-20	-0.56	-0.00021	PASS
					-10	-1.46	-0.00056	PASS
					0	-6.48	-0.00248	PASS
					10	-4.23	-0.00162	PASS
					20	-5.29	-0.00202	PASS
					30	-4.69	-0.00179	PASS
					40	-4.99	-0.00191	PASS
					50	-4.13	-0.00158	PASS
			LCH	VN	-30	6.84	0.00265	PASS
					-20	4.18	0.00162	PASS
					-10	-0.76	-0.00029	PASS
					0	-1.95	-0.00076	PASS
					10	0.3	0.00012	PASS
					20	0.04	0.00002	PASS
					30	-1.04	-0.0004	PASS
					40	-2.06	-0.0008	PASS
					50	-1.99	-0.00077	PASS
		15	MCH	VN	-30	-7.98	-0.00308	PASS
					-20	-7.74	-0.00298	PASS
					-10	-3.72	-0.00143	PASS
					0	-3.63	-0.0014	PASS
					10	-6.29	-0.00242	PASS
					20	-6.07	-0.00234	PASS
					30	-4.33	-0.00167	PASS
					40	-2.86	-0.0011	PASS
					50	-0.41	-0.00016	PASS
			HCH	VN	-30	-8.23	-0.00315	PASS
					-20	-5.21	-0.00199	PASS
					-10	-13.46	-0.00515	PASS
					0	-73.63	-0.02818	PASS
					10	-4.33	-0.00166	PASS
					20	-1.85	-0.00071	PASS
					30	0.46	0.00018	PASS
					40	-4.65	-0.00178	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					50	-5.42	-0.00207	PASS
			LCH	VN	-30	0.74	0.00029	PASS
					-20	-0.73	-0.00028	PASS
					-10	-1.92	-0.00074	PASS
					0	-0.47	-0.00018	PASS
					10	-3.86	-0.0015	PASS
					20	-3.33	-0.00129	PASS
					30	-2.92	-0.00113	PASS
					40	-2.45	-0.00095	PASS
					50	-2.92	-0.00113	PASS
		20	MCH	VN	-30	-3.76	-0.00145	PASS
					-20	-2.07	-0.0008	PASS
					-10	-5.72	-0.0022	PASS
					0	-3.73	-0.00144	PASS
					10	-5.82	-0.00224	PASS
					20	-4.16	-0.0016	PASS
					30	-3.13	-0.00121	PASS
					40	-4.26	-0.00164	PASS
					50	-2.47	-0.00095	PASS
			HCH	VN	-30	-4.01	-0.00154	PASS
					-20	-4.71	-0.0018	PASS
					-10	-2.6	-0.001	PASS
					0	-6.31	-0.00242	PASS
					10	-3.66	-0.0014	PASS
					20	-3.79	-0.00145	PASS
					30	-3.6	-0.00138	PASS
					40	-2.89	-0.00111	PASS
					50	-4.25	-0.00163	PASS

END