Agilent Spectrum Analyzer - Swept SA

RL	RF	50 Ω DC		SENSE:INT	ALIGN AUTO	02:44:38 PM Nov 05, 2016

Center Freq 15.075000 MHz

PNO: Wide · Trig: Free Run · Avg Type: Log-Pwr · TRACE 1 2 3 4 5 6
IFGain:Low · #Atten: 36 dB · Avg|Hold: 47/100 · TYPE M WWWWWW · DET P P P P P

Mkr1 25.212 06 MHz
-60.698 dBm

Ref Offset 7.3 dB
10 dB/div **Ref 28.00 dBm**
Log

18.0

8.00

-2.00

-12.0

-22.0   -23.00 dBm

-32.0

-42.0

-52.0   1

-62.0

Start 150 kHz ... **Stop 30.00 MHz**
#Res BW 10 kHz ... **#VBW 30 kHz** ... **Sweep 285.3 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

Agilent Spectrum Analyzer - Swept SA

LXI R L		RF	50 Ω	AC		SENSE:INT	ALIGN AUTO	02:44:54 PM Nov 05, 2016	

Center Freq 515.000000 MHz

PNO: Fast
IFGain:Low

Trig: Free Run
#Atten: 36 dB

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

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

Ref Offset 7.3 dB
10 dB/div Ref 28.00 dBm
Log

Mkr1 847.904 MHz
24.730 dBm

18.0

8.00

-2.00

-12.0   -13.00 dBm

-22.0

-32.0

-42.0

-52.0

-62.0

Start 30.0 MHz   Stop 1.0000 GHz
#Res BW 100 kHz   #VBW 300 kHz   Sweep 93.33 ms (40001 pts)

MSG (i) Points changed; all traces cleared   STATUS

Frequency

Auto Tune

Center Freq
515.000000 MHz

Start Freq
30.000000 MHz

Stop Freq
1.000000000 GHz

CF Step
97.000000 MHz
Auto   Man

Freq Offset
0 Hz

6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0
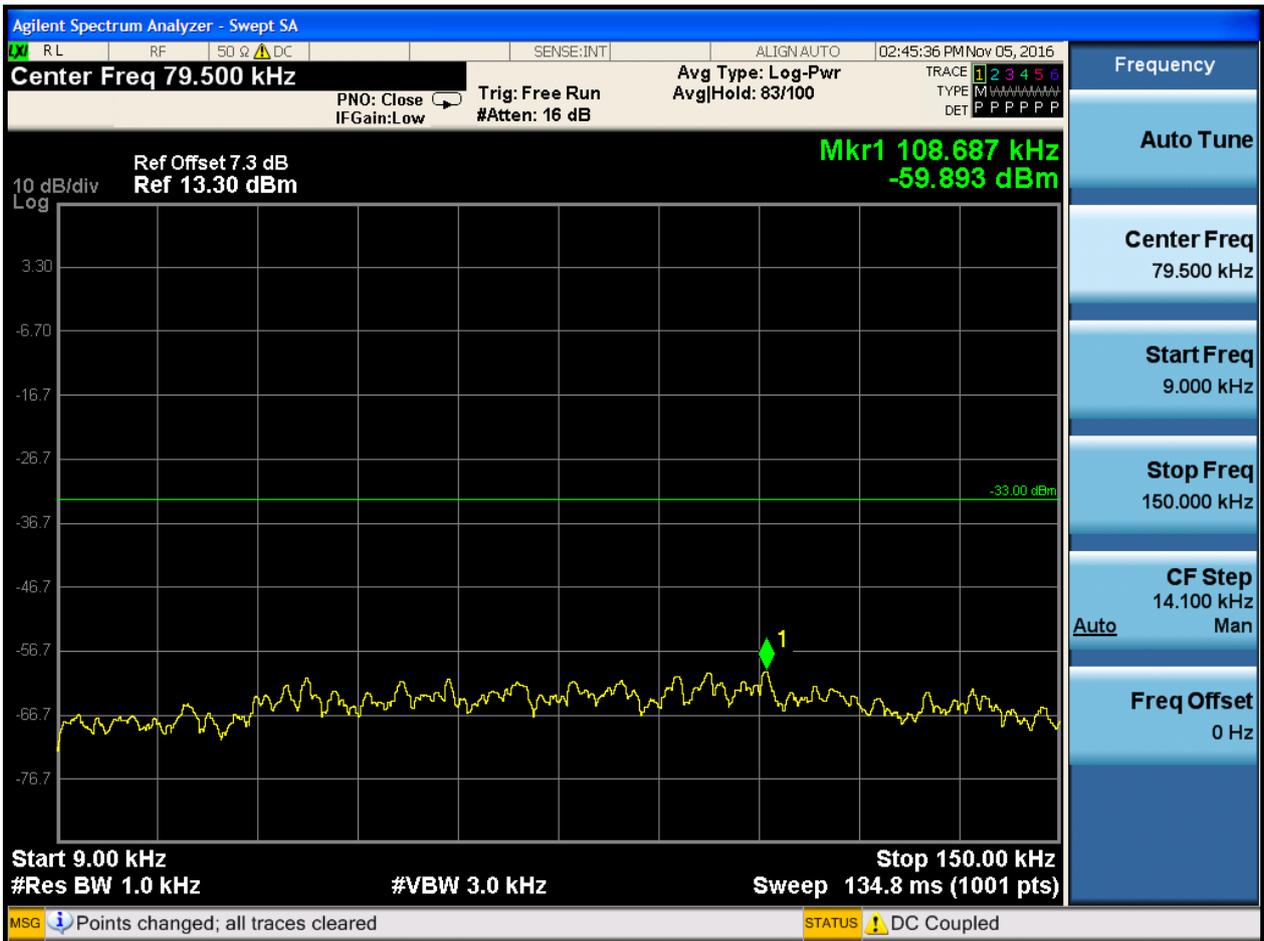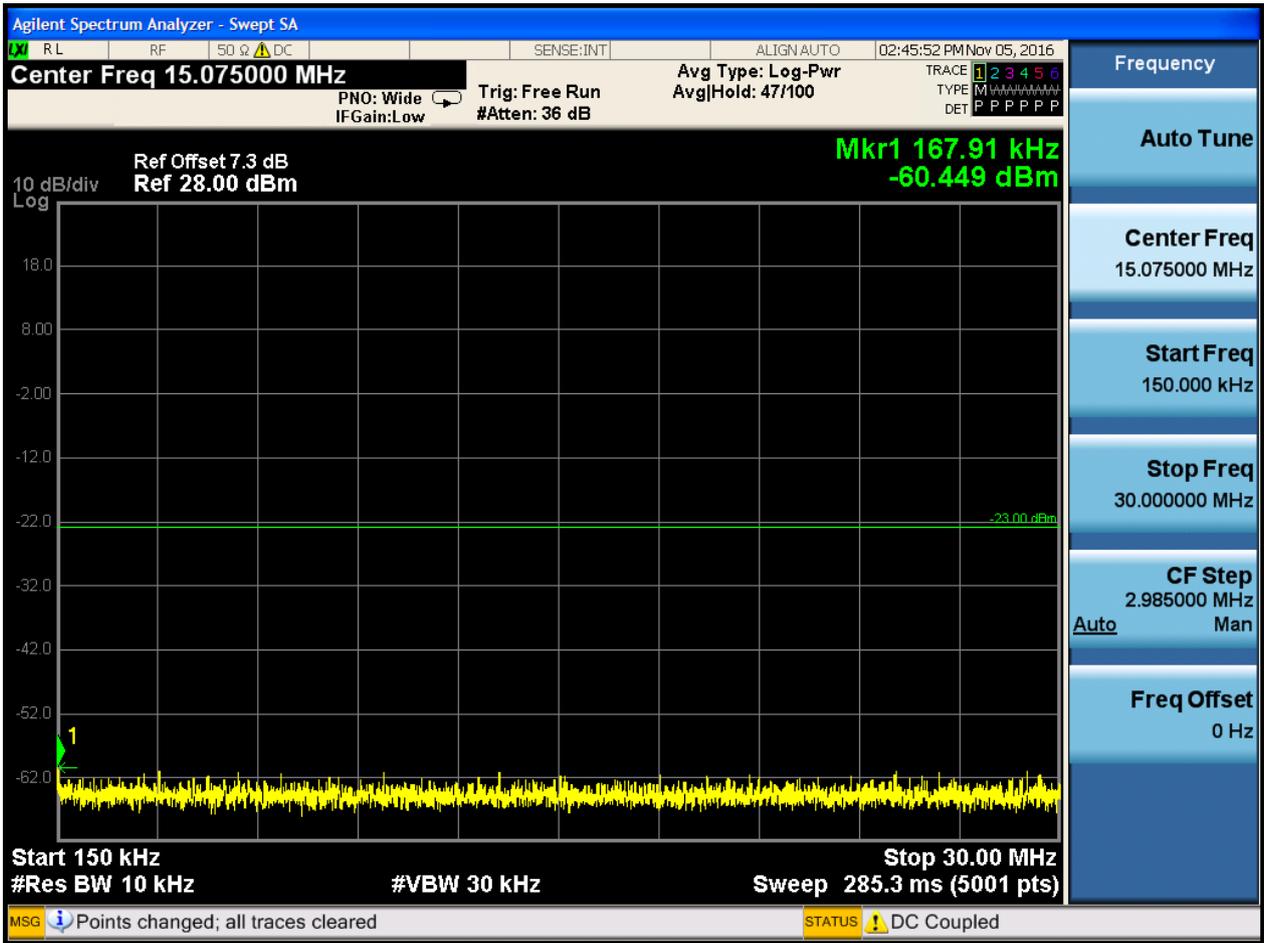
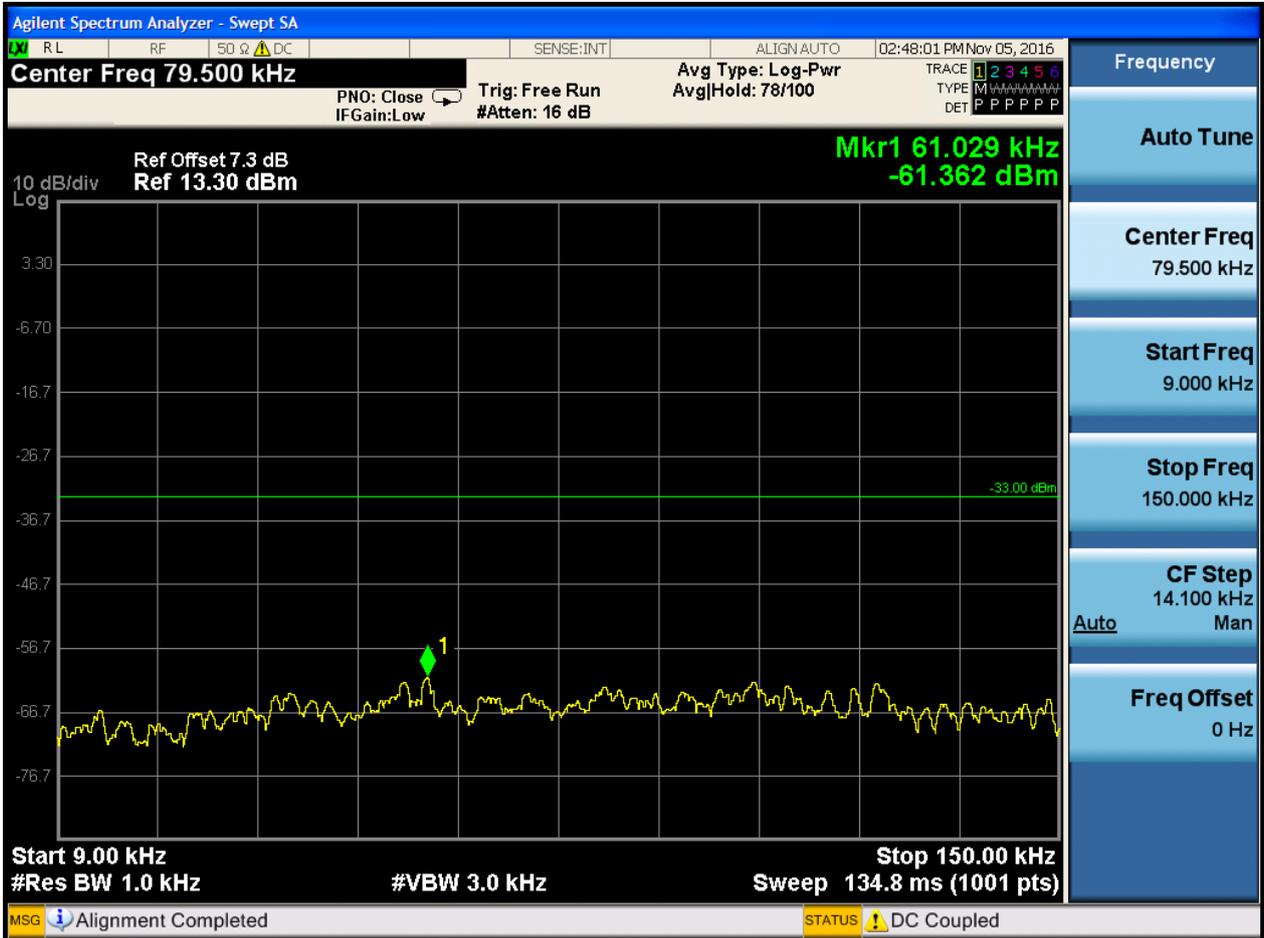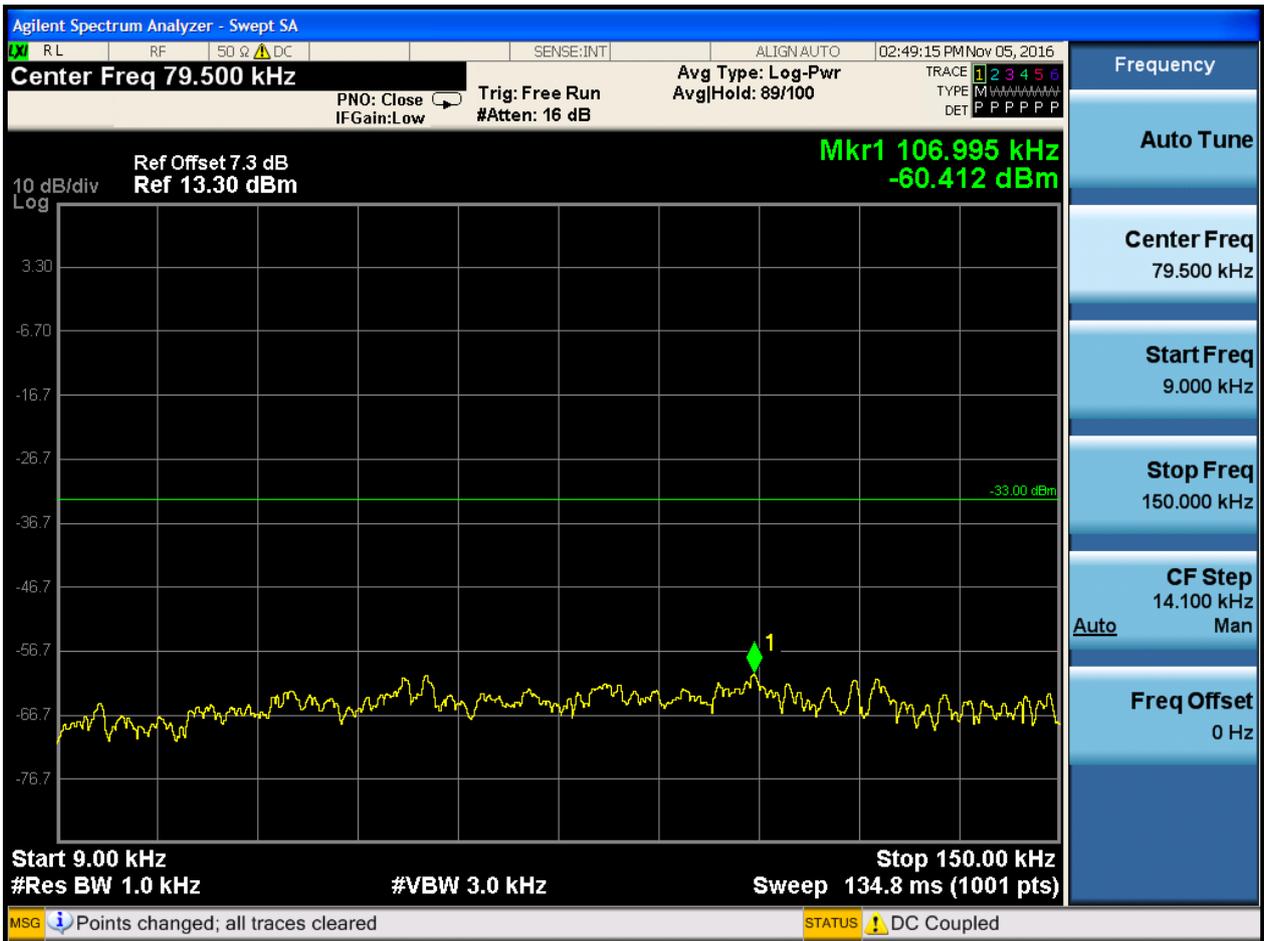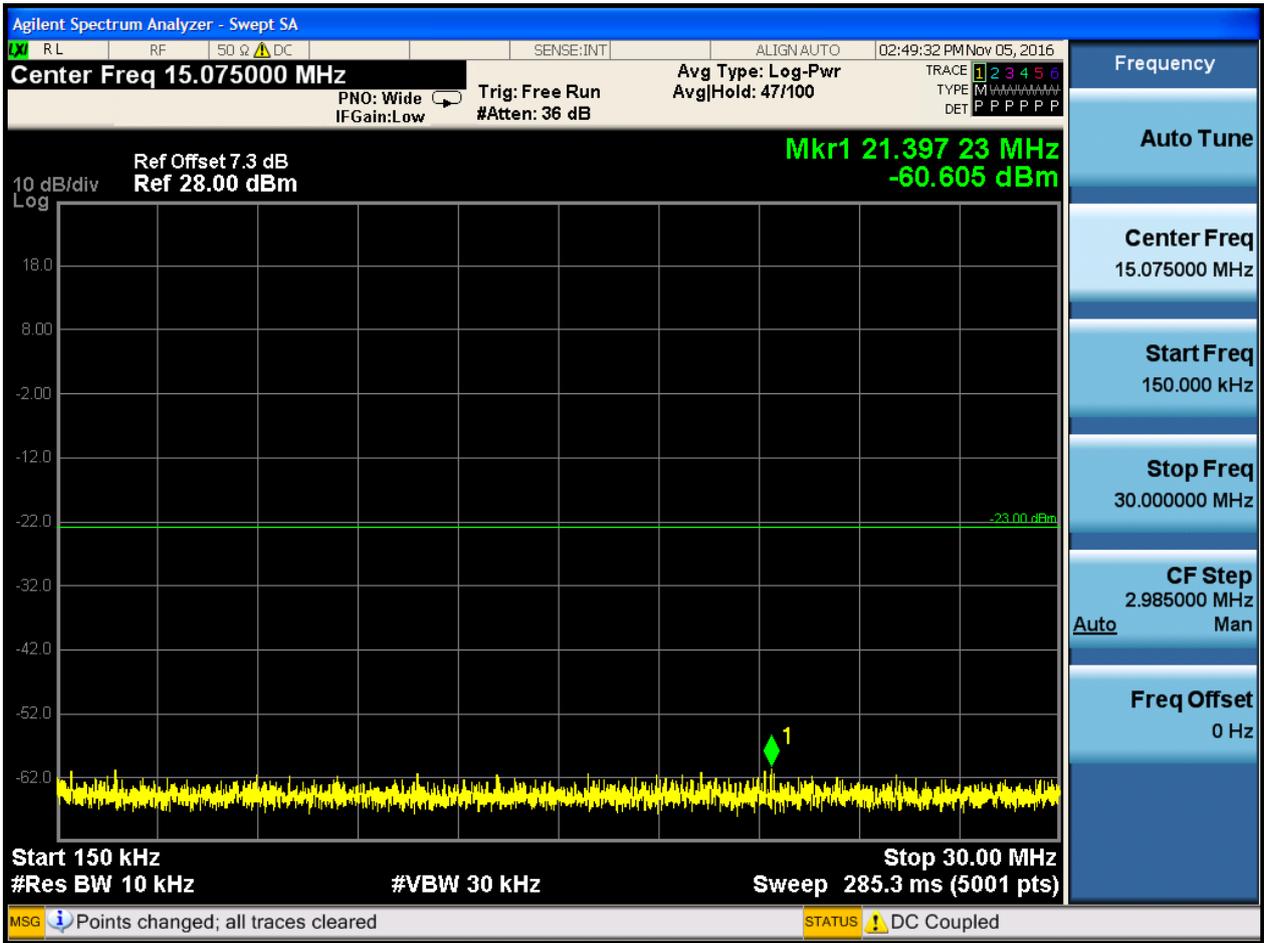## 6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0
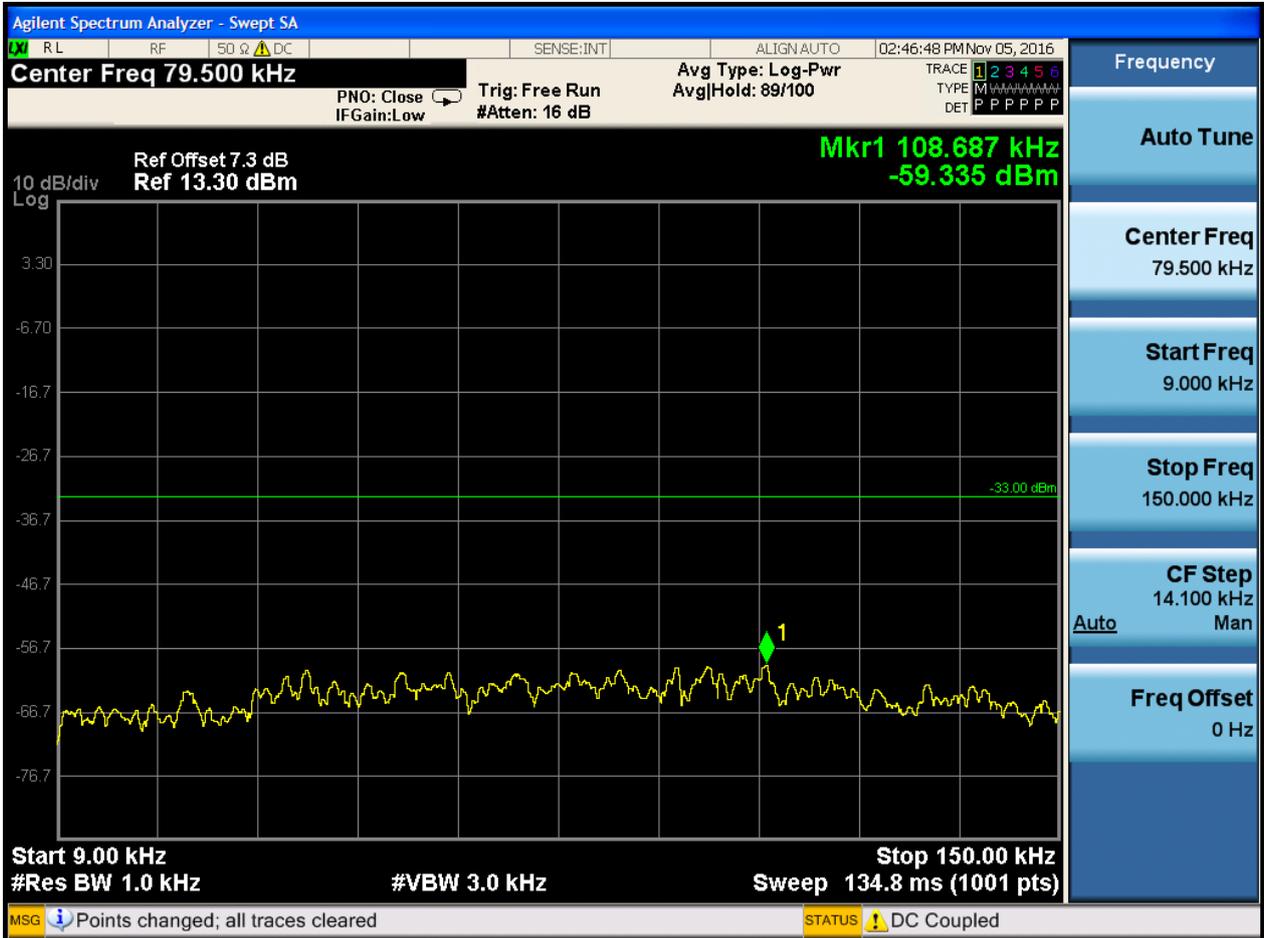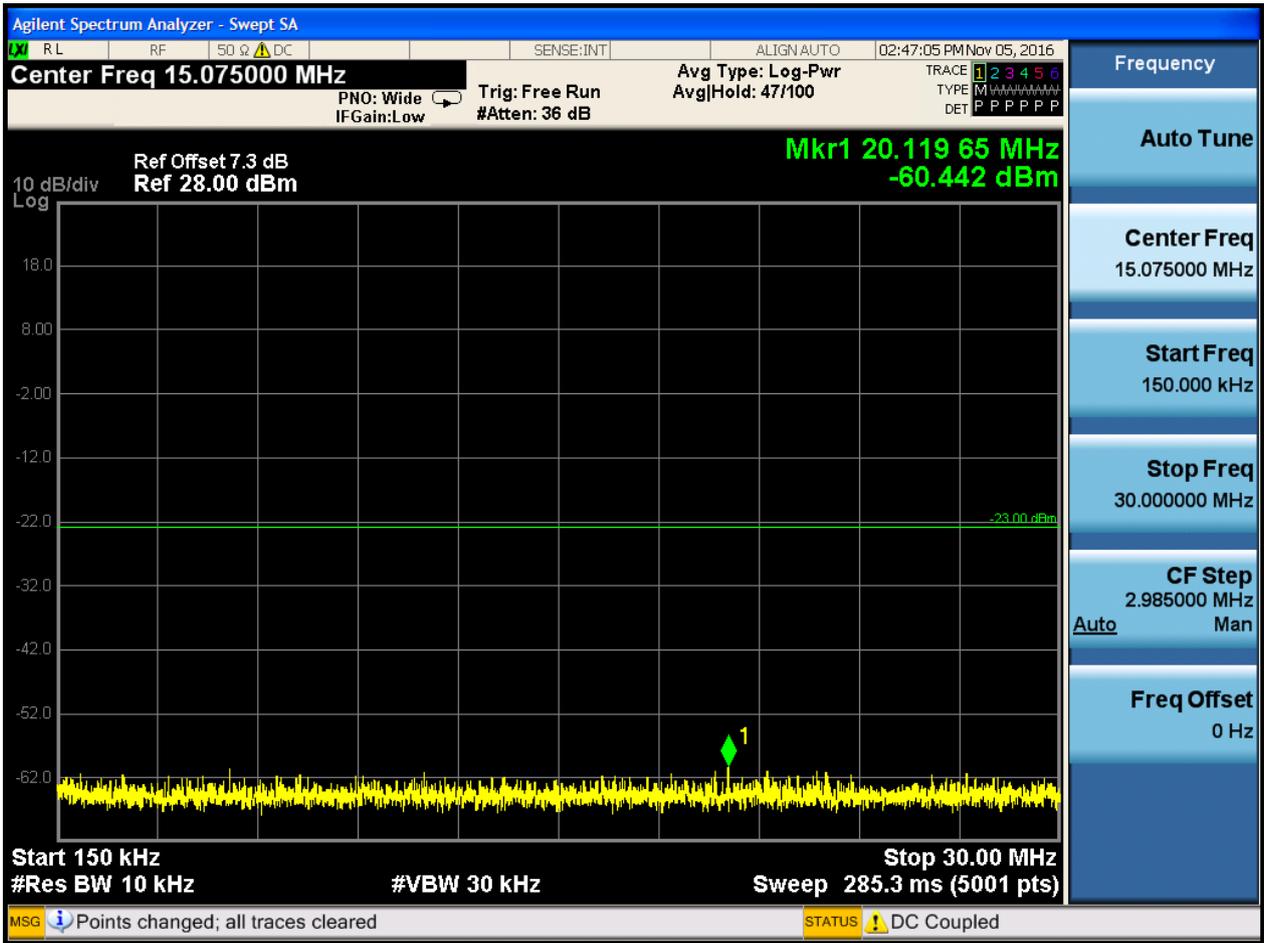
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0

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Agilent Spectrum Analyzer - Swept SA

LXI R L   RF   50 Ω AC   SENSE:INT   ALIGN AUTO   02:48:34 PM Nov 05, 2016

Center Freq 515.000000 MHz
                                              PNO: Fast ↻   **Trig: Free Run**   Avg Type: Log-Pwr   TRACE 1 2 3 4 5 6
                                              IFGain:Low   #Atten: 36 dB   Avg|Hold:> 100/100   TYPE M WWWWWWW
                                                                                                              DET P P P P P

Ref Offset 7.3 dB
10 dB/div   **Ref 28.00 dBm**
Log

Mkr1 846.207 MHz
24.697 dBm

▼1

18.0

8.00

-2.00

-12.0   -13.00 dBm

-22.0

-32.0

-42.0

-52.0

-62.0

Start 30.0 MHz   **Stop 1.0000 GHz**
#Res BW 100 kHz   #VBW 300 kHz   **Sweep 93.33 ms (40001 pts)**

MSG ⓘ Points changed; all traces cleared   STATUS

Frequency

Auto Tune

Center Freq
515.000000 MHz

Start Freq
30.000000 MHz

Stop Freq
1.000000000 GHz

CF Step
97.000000 MHz
Auto   Man

Freq Offset
0 Hz

6.1.1.1.3 Test Bandwidth = 5

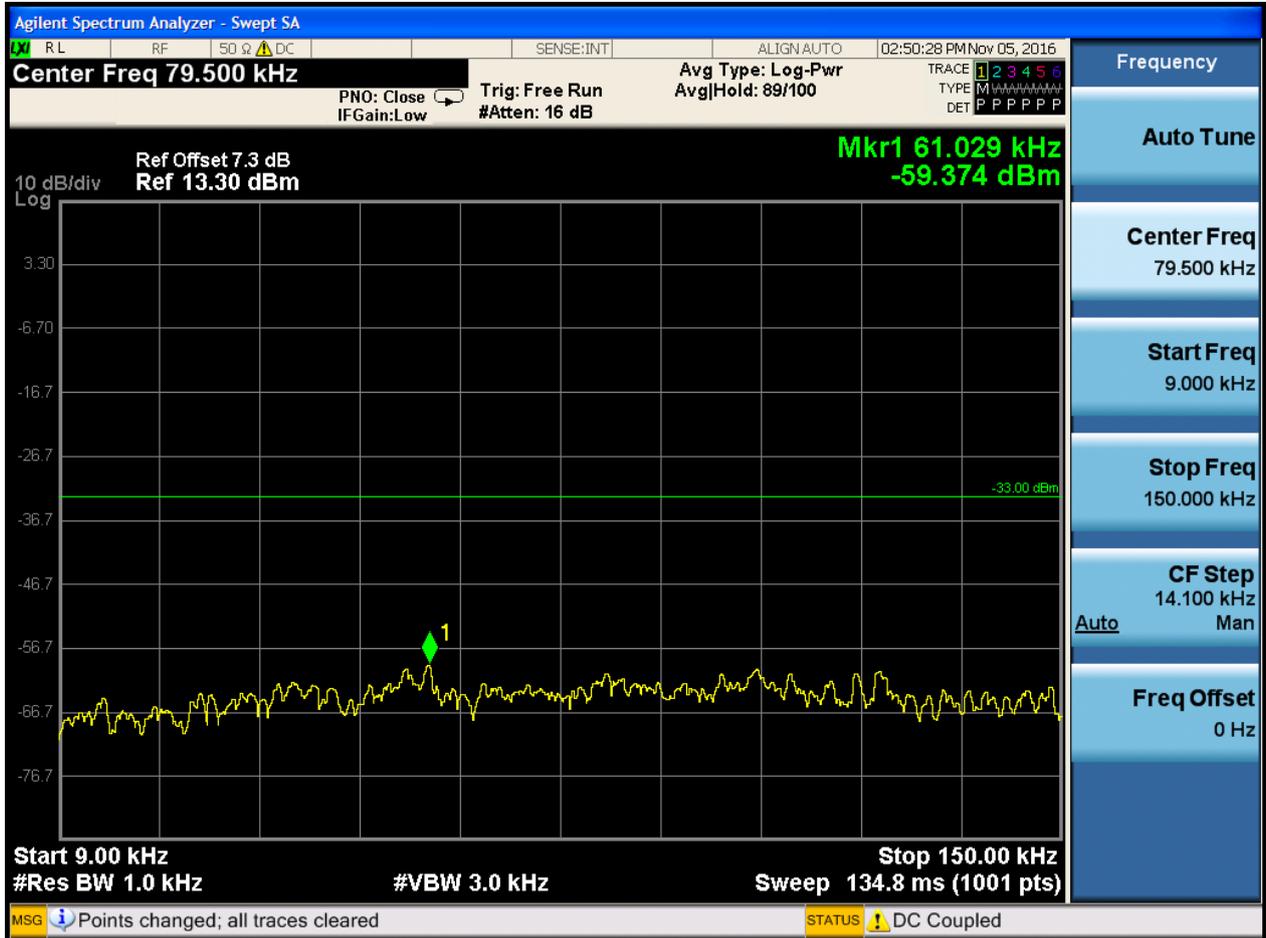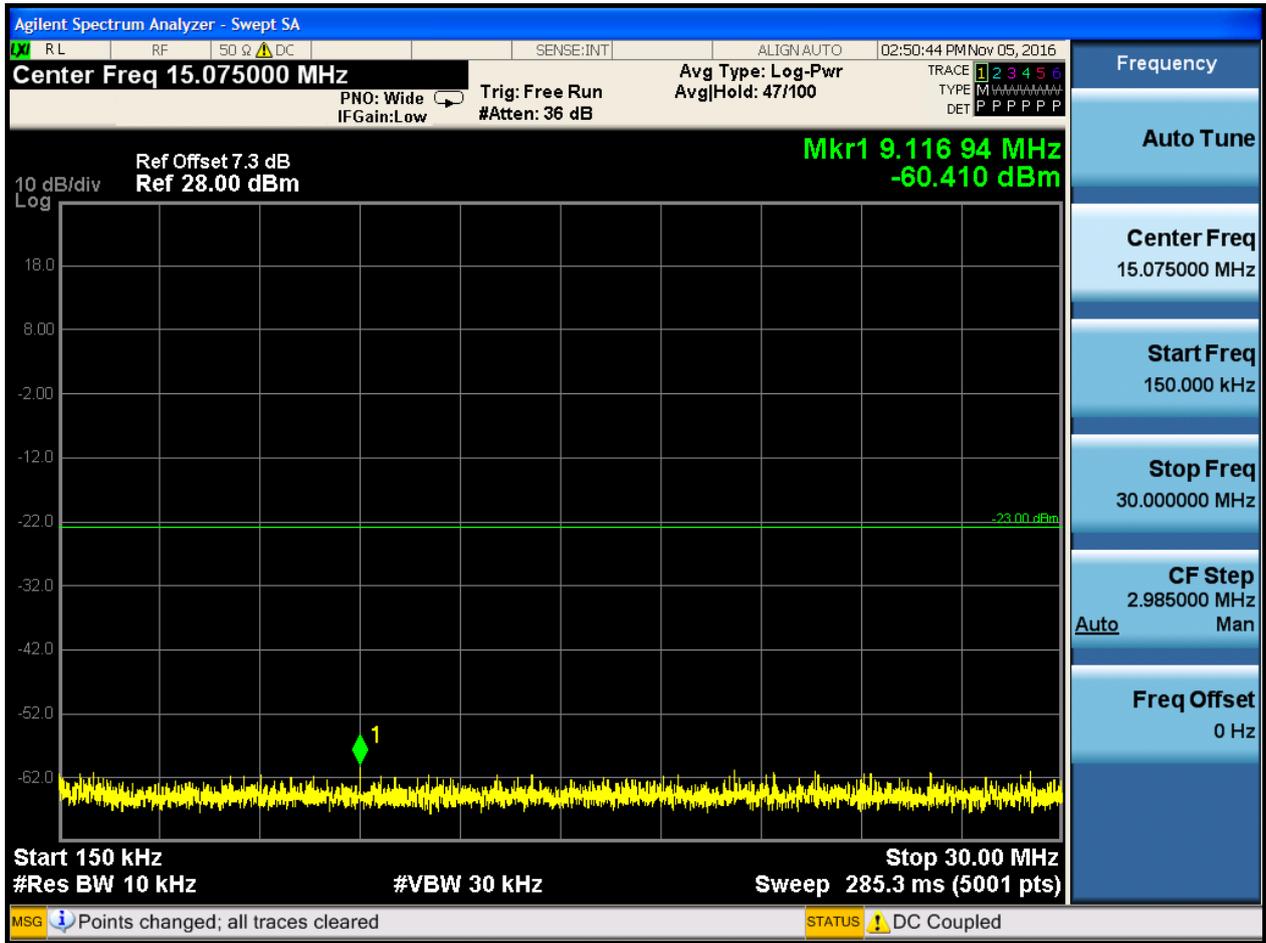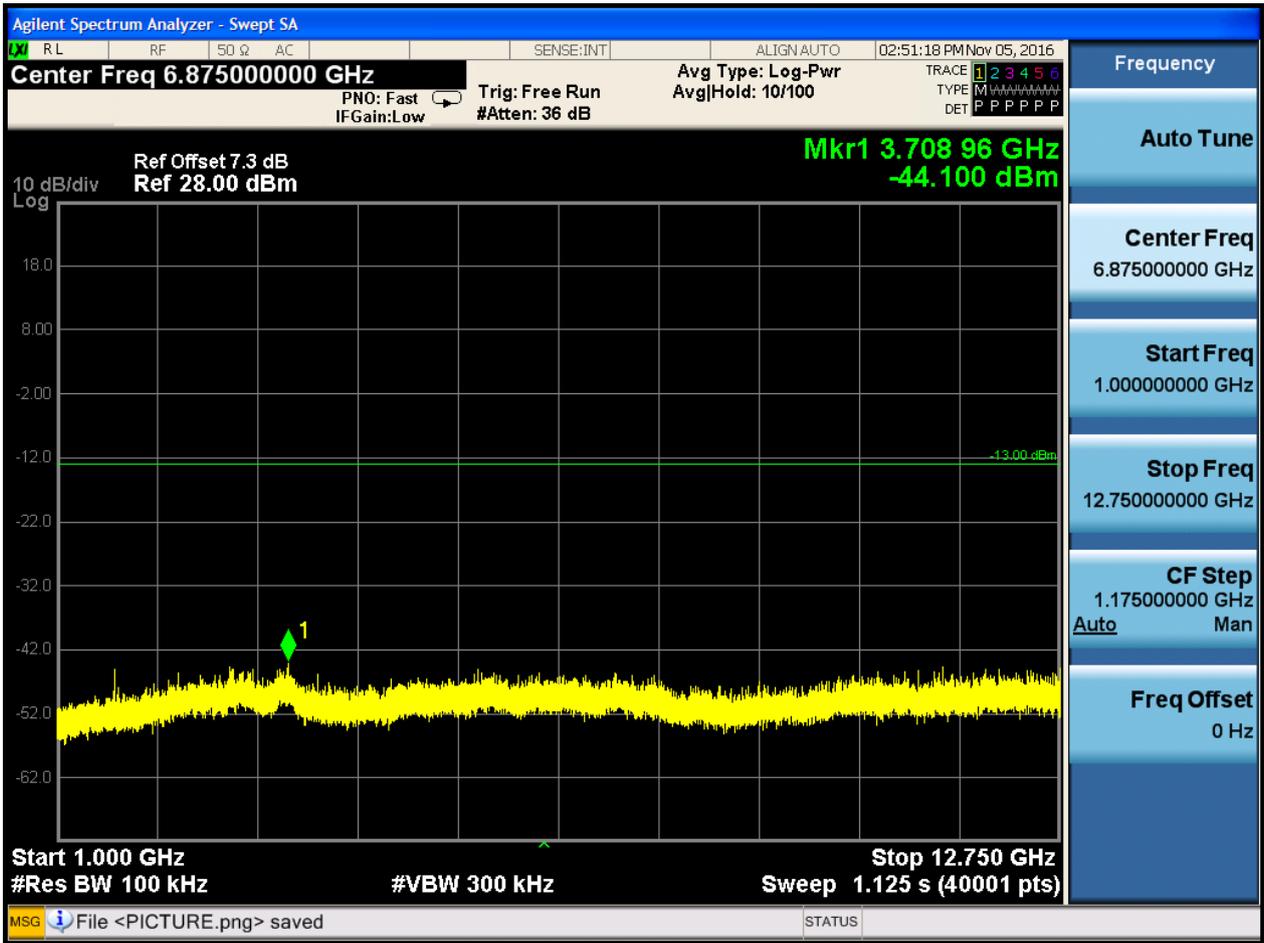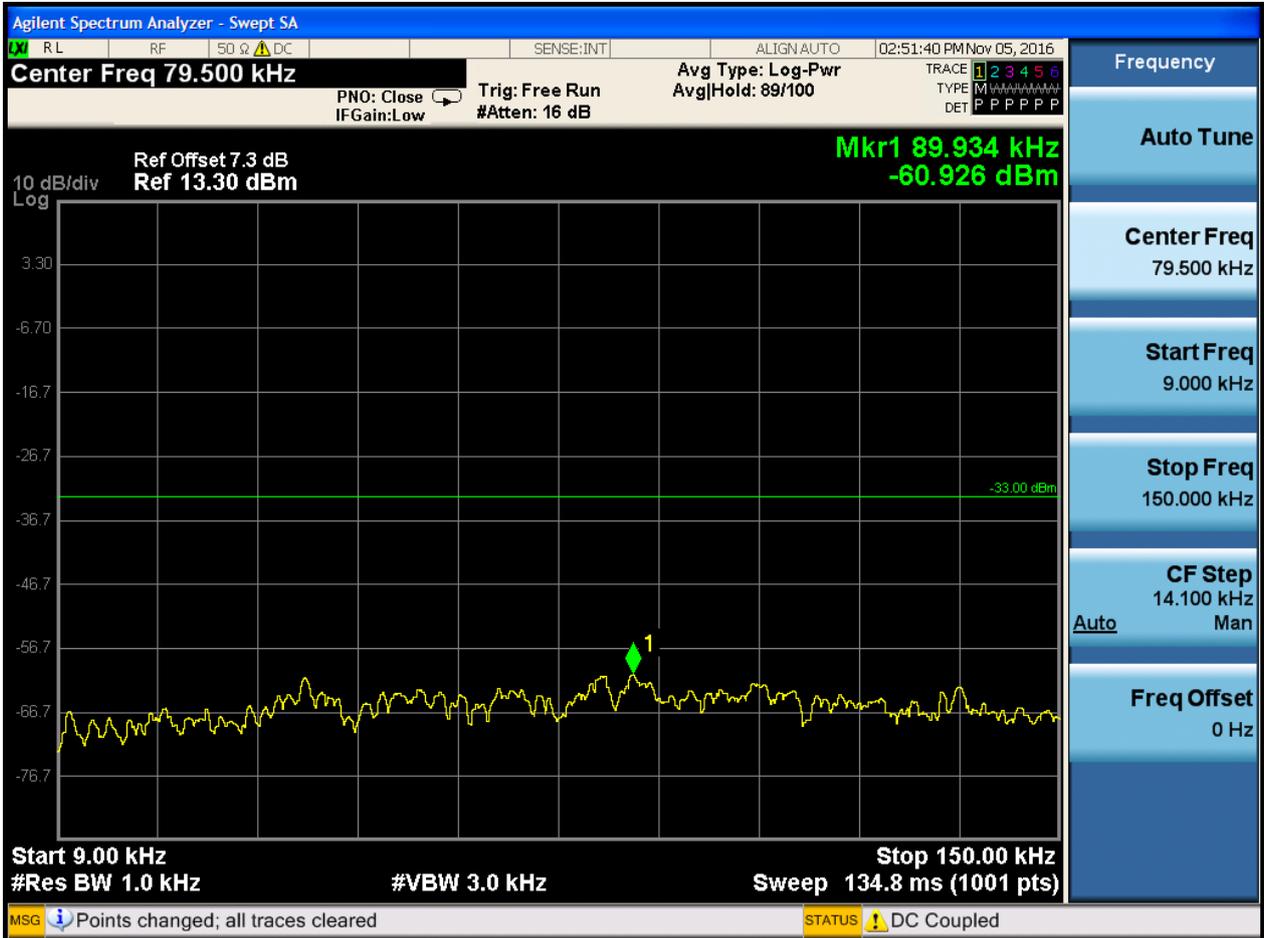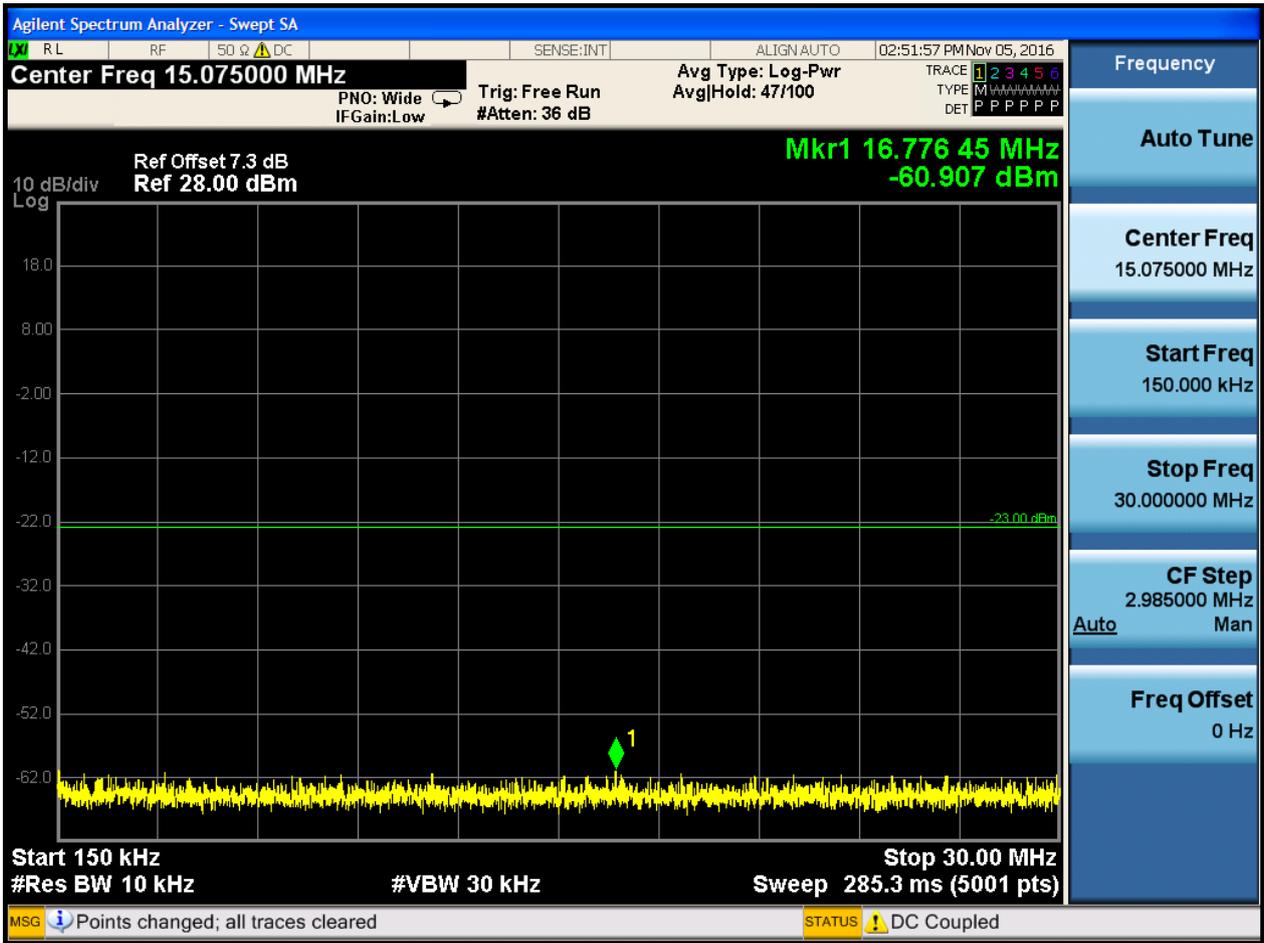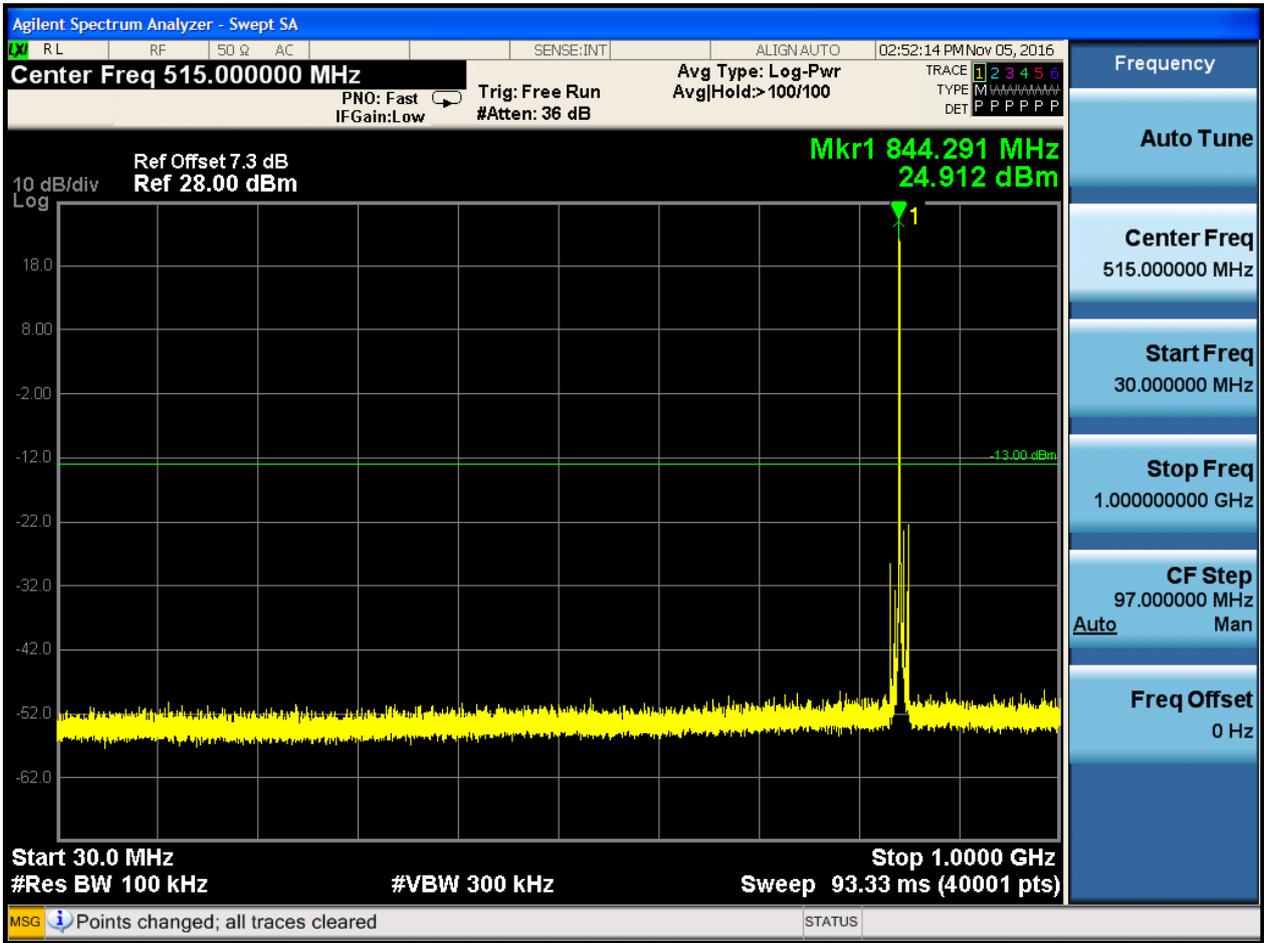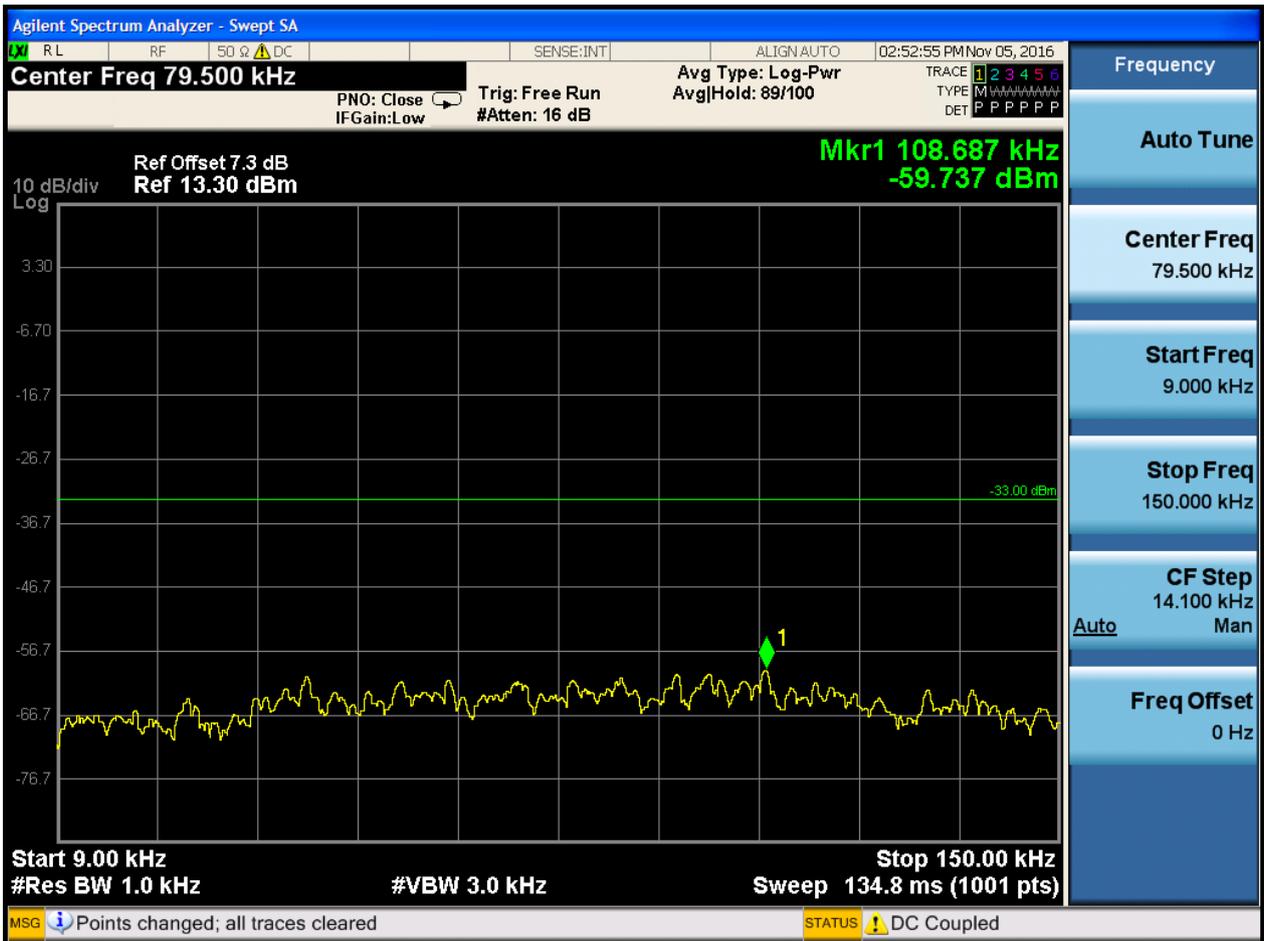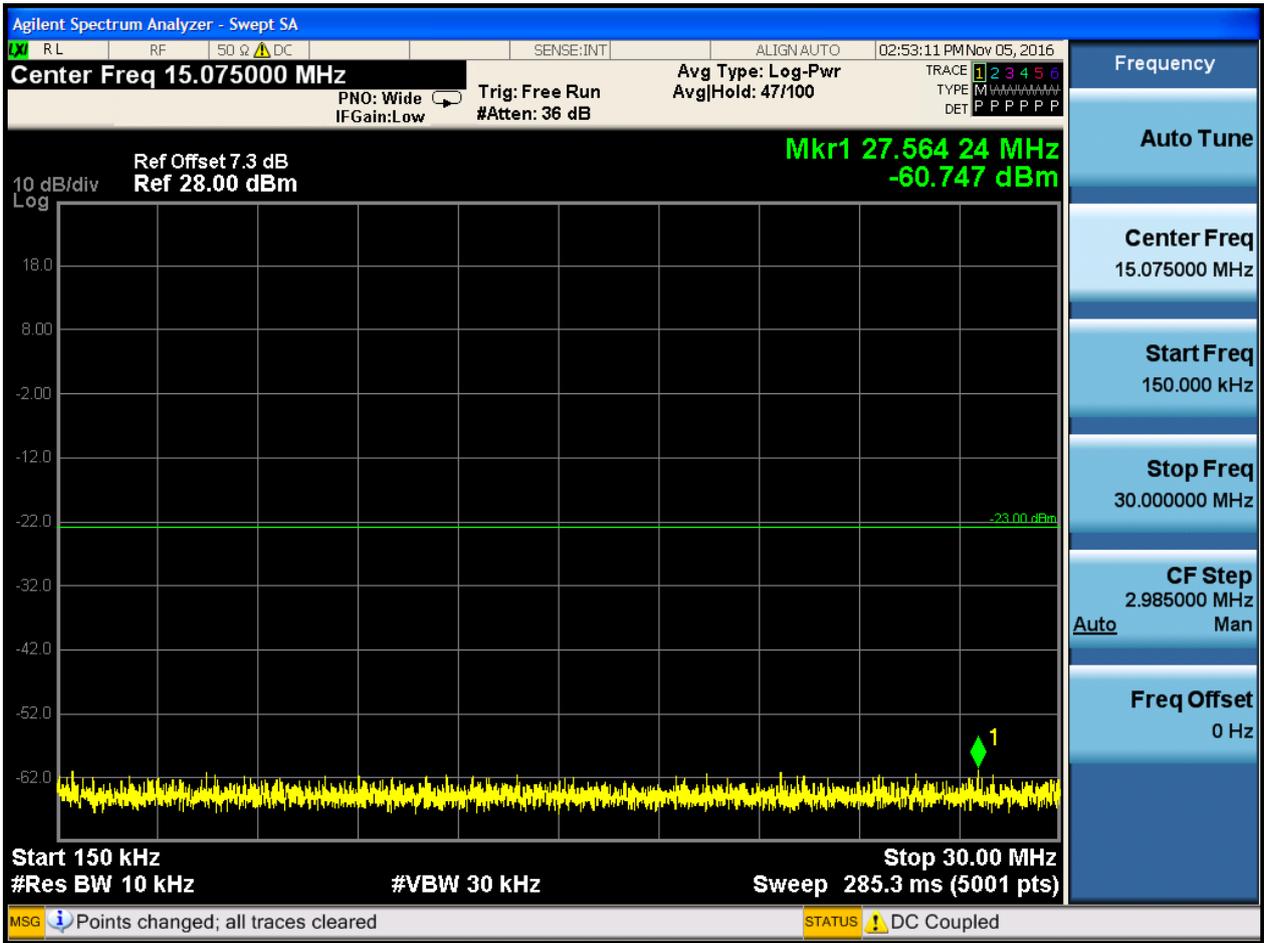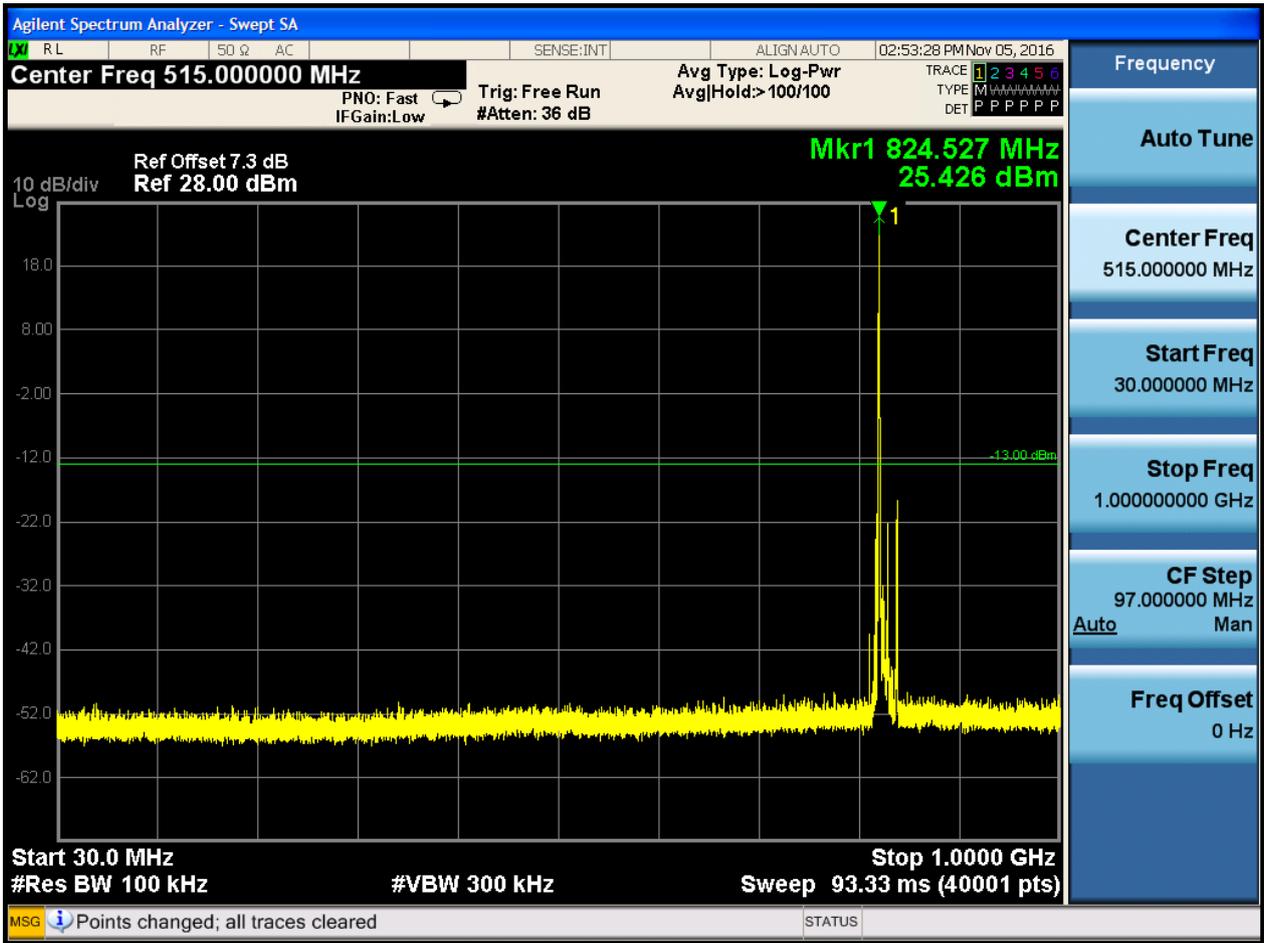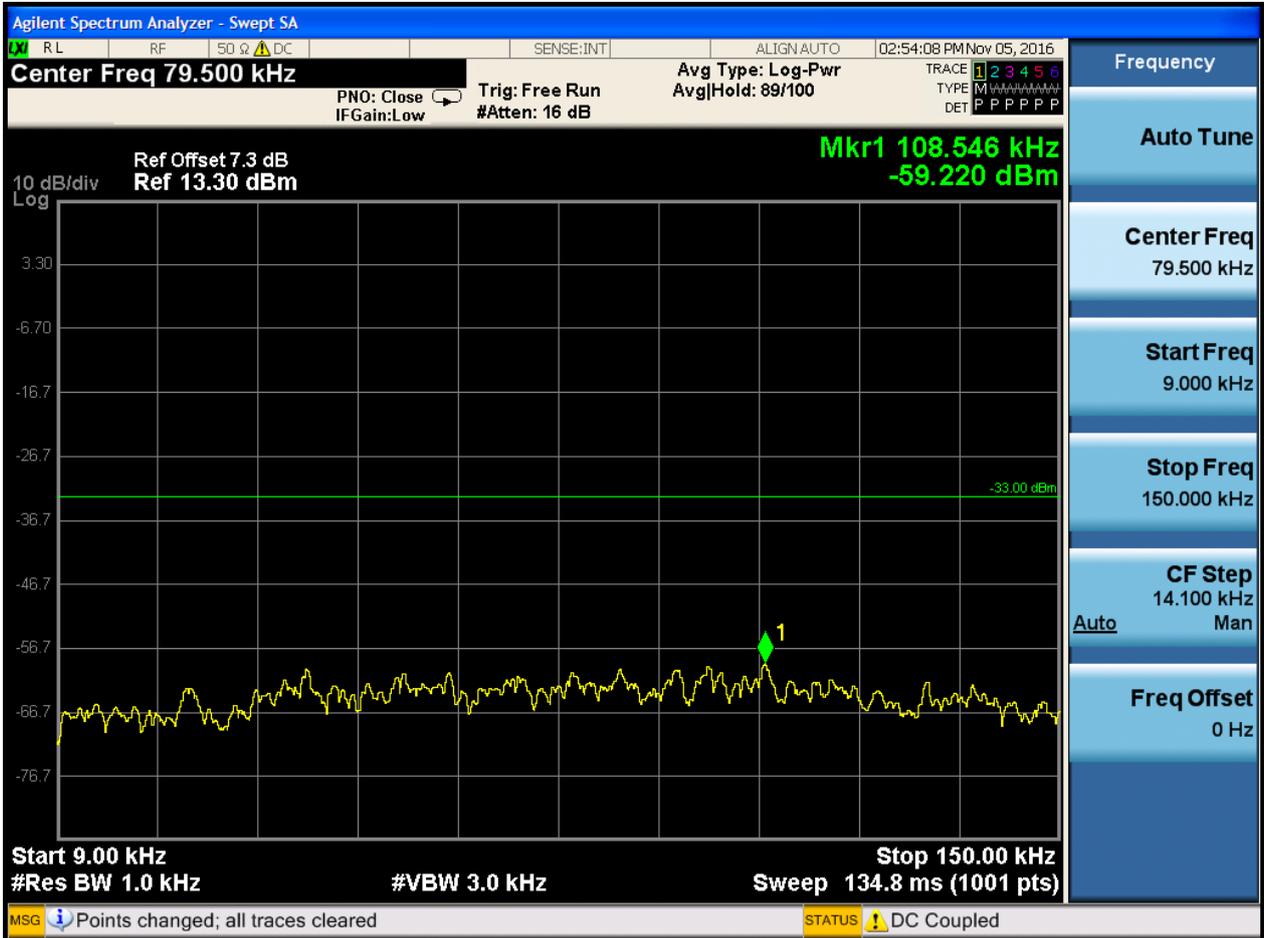### 6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0

6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0

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Agilent Spectrum Analyzer - Swept SA

| LXI | R L | RF | 50 Ω ⚠ DC | | | SENSE:INT | | ALIGN AUTO | 02:50:44 PM Nov 05, 2016 |

Center Freq 15.075000 MHz

PNO: Wide
IFGain:Low

Trig: Free Run
#Atten: 36 dB

Avg Type: Log-Pwr
Avg|Hold: 47/100

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

Mkr1 9.116 94 MHz
-60.410 dBm

Ref Offset 7.3 dB
Ref 28.00 dBm

10 dB/div
Log

18.0

8.00

-2.00

-12.0

-22.0   -23.00 dBm

-32.0

-42.0

-52.0

                                    1

-62.0

Start 150 kHz   **Stop 30.00 MHz**
#Res BW 10 kHz   **#VBW 30 kHz**   **Sweep 285.3 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
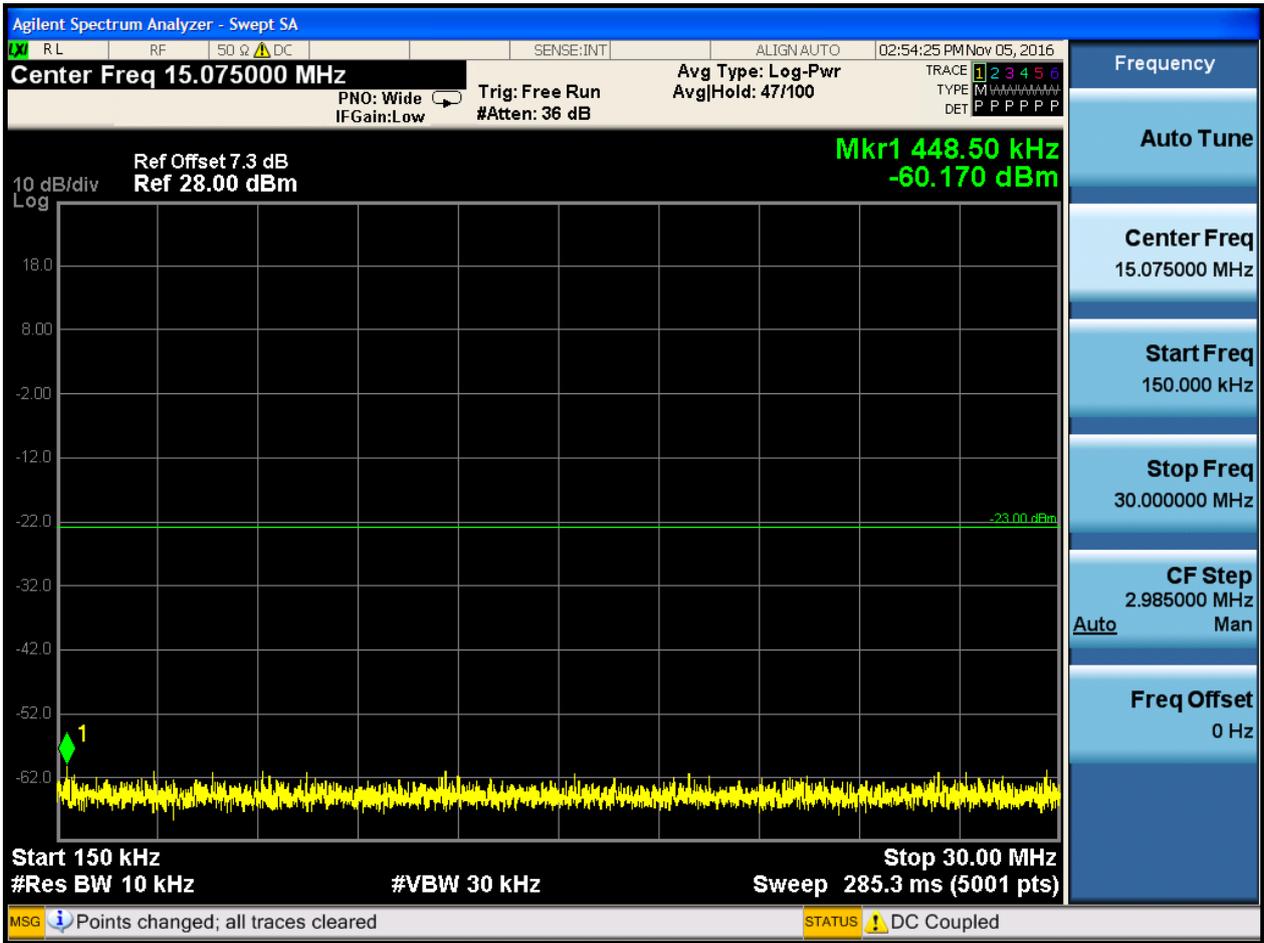
CF Step
2.985000 MHz
Auto   Man

Freq Offset
0 Hz

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

R L   RF   50 Ω DC   SENSE:INT   ALIGN AUTO   02:51:57 PM Nov 05, 2016

Center Freq 15.075000 MHz   Avg Type: Log-Pwr   TRACE 1 2 3 4 5 6
PNO: Wide   Trig: Free Run   Avg|Hold: 47/100   TYPE M W W W W W
IFGain:Low   #Atten: 36 dB   DET P P P P P

Ref Offset 7.3 dB
10 dB/div   **Ref 28.00 dBm**
Log

Mkr1 16.776 45 MHz
-60.907 dBm

18.0

8.00

-2.00

-12.0

-22.0   -23.00 dBm

-32.0

-42.0

-52.0

1

-62.0

Start 150 kHz   **Stop 30.00 MHz**
#Res BW 10 kHz   **#VBW 30 kHz**   **Sweep 285.3 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

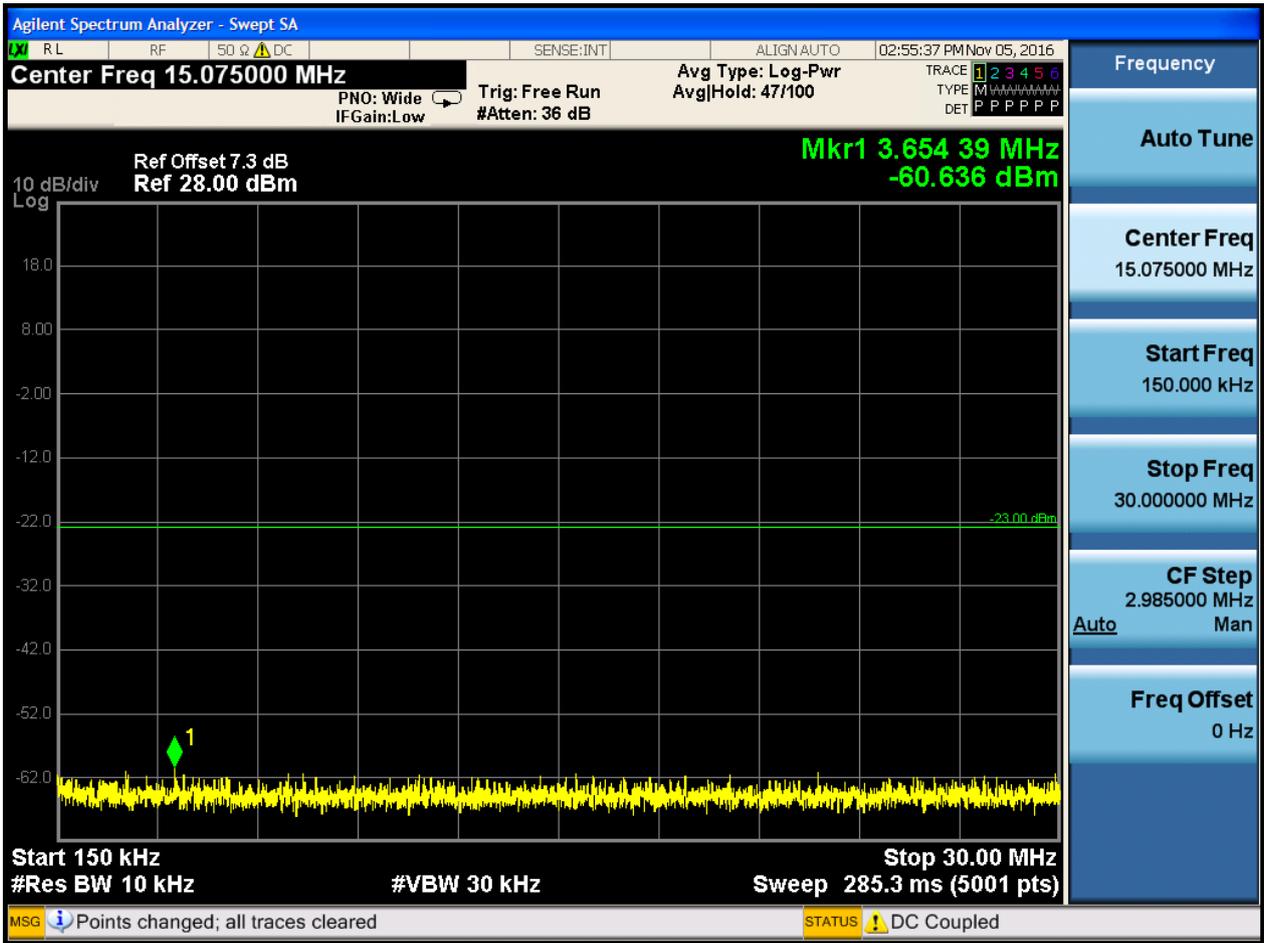**Freq Offset**
0 Hz

6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0

Agilent Spectrum Analyzer - Swept SA

| LXI R L | RF | 50 Ω | AC | | SENSE:INT | ALIGN AUTO | 02:53:28 PM Nov 05, 2016 |

Center Freq 515.000000 MHz

PNO: Fast
IFGain:Low

Trig: Free Run
#Atten: 36 dB

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

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

Ref Offset 7.3 dB
10 dB/div   **Ref 28.00 dBm**
Log

Mkr1 824.527 MHz
25.426 dBm

18.0

8.00

-2.00

-12.0   -13.00 dBm

-22.0

-32.0

-42.0

-52.0

-62.0

Start 30.0 MHz
#Res BW 100 kHz   **#VBW 300 kHz**

Stop 1.0000 GHz
Sweep 93.33 ms (40001 pts)

MSG i Points changed; all traces cleared   STATUS

Frequency

Auto Tune

Center Freq
515.000000 MHz

Start Freq
30.000000 MHz

Stop Freq
1.000000000 GHz
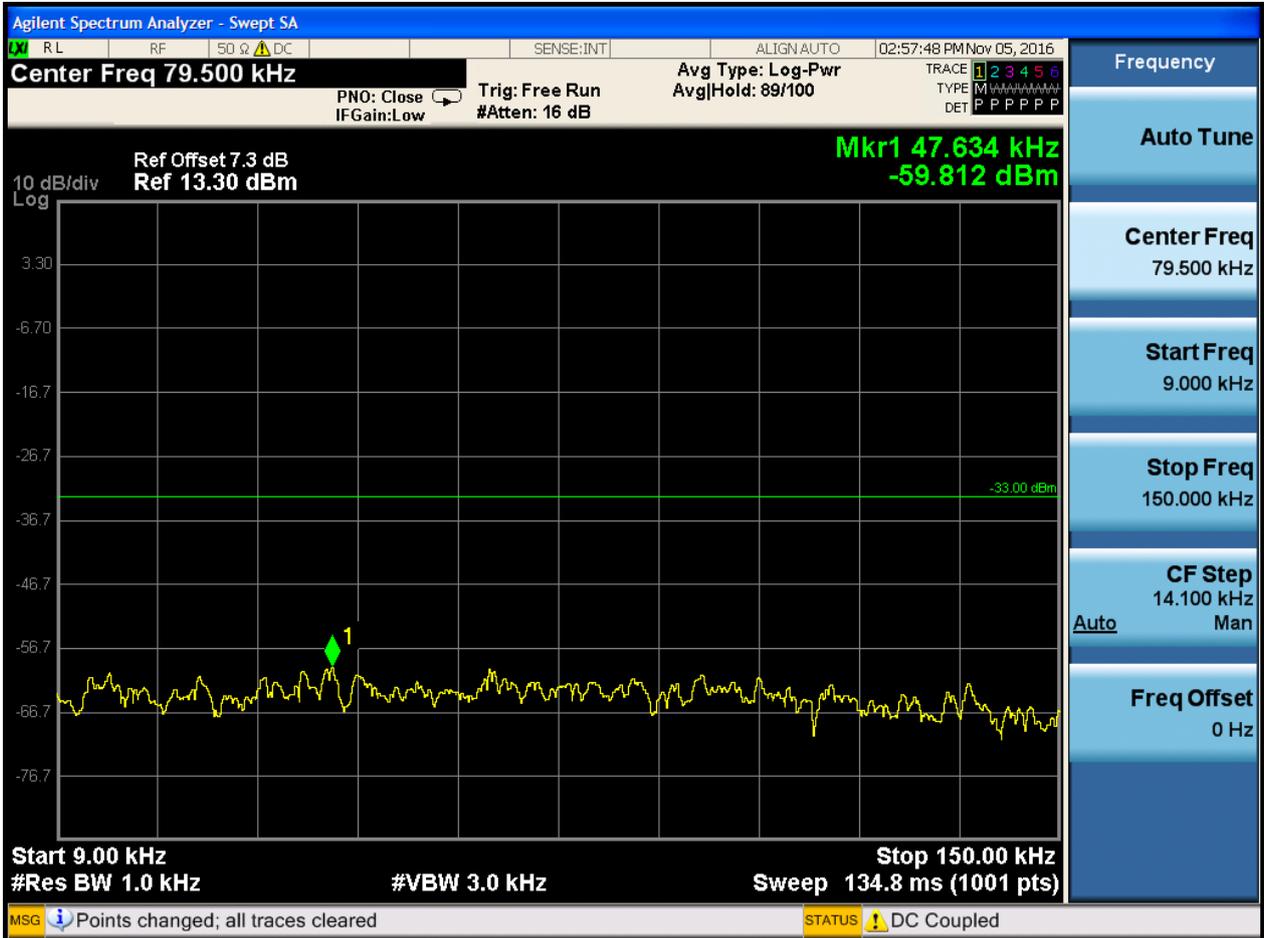
CF Step
97.000000 MHz
Auto   Man

Freq Offset
0 Hz

6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0

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6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0

Agilent Spectrum Analyzer - Swept SA

| LXI R L | RF | 50 Ω | AC | | SENSE:INT | ALIGN AUTO | 02:56:11 PM Nov 05, 2016 |

Center Freq 6.875000000 GHz

PNO: Fast
IFGain:Low

Trig: Free Run
#Atten: 36 dB

Avg Type: Log-Pwr
Avg|Hold: 11/100

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

Mkr1 11.708 66 GHz
-44.434 dBm

Ref Offset 7.3 dB
10 dB/div **Ref 28.00 dBm**
Log

18.0

8.00

-2.00

-12.0 ....-13.00 dBm

-22.0

-32.0

-42.0 ▲ 1

-52.0

-62.0

Start 1.000 GHz **Stop 12.750 GHz**
#Res BW 100 kHz **#VBW 300 kHz** **Sweep 1.125 s (40001 pts)**

MSG File <PICTURE.png> saved   STATUS

Frequency

Auto Tune

Center Freq
6.875000000 GHz

Start Freq
1.000000000 GHz

Stop Freq
12.750000000 GHz

CF Step
1.175000000 GHz
Auto   Man

Freq Offset
0 Hz

6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 1.4

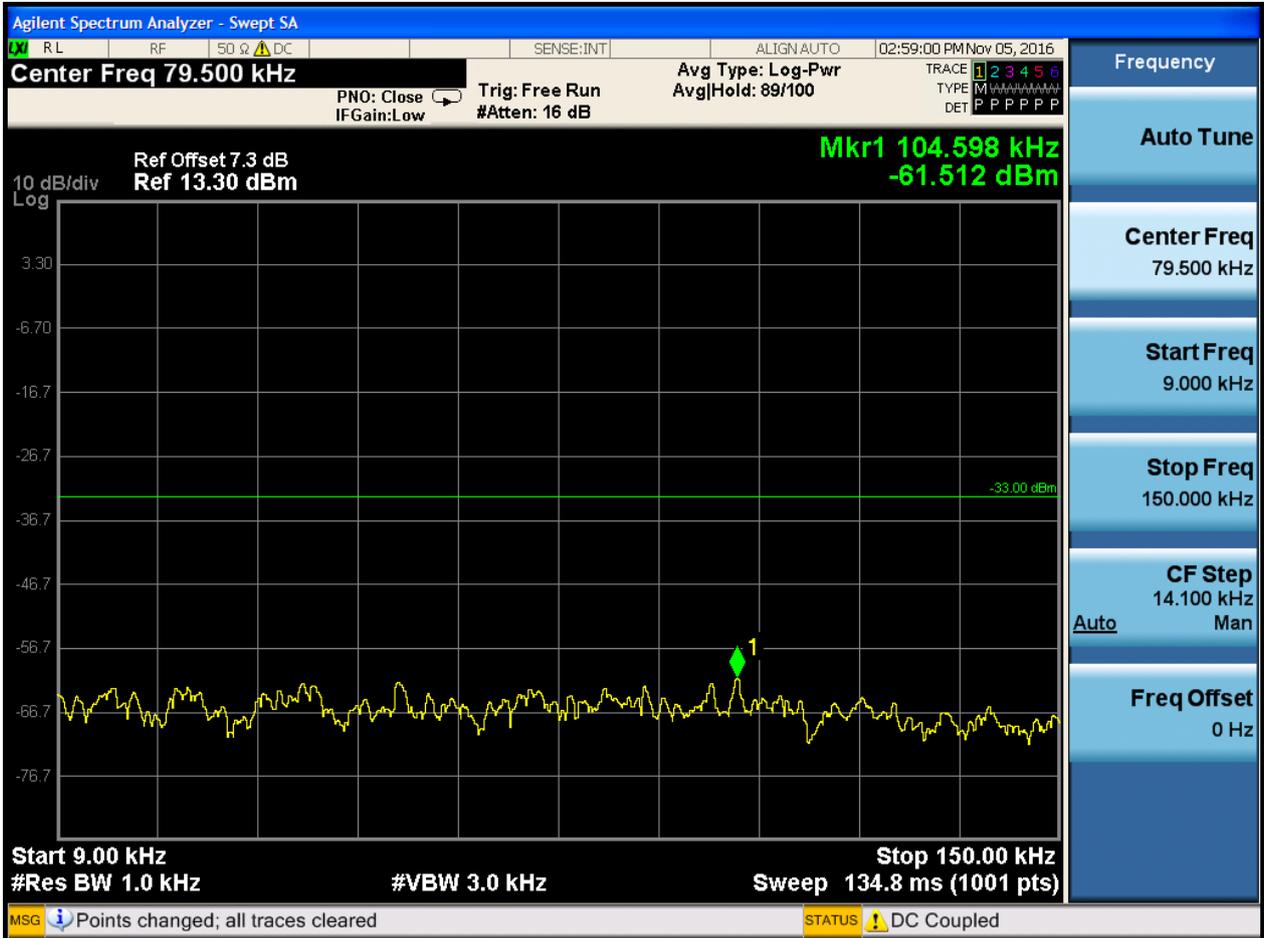**6.1.1.2.1.1 Test Channel = LCH**

6.1.1.2.1.1.1 Test RB = RB1#0

Agilent Spectrum Analyzer - Swept SA

LXI R L RF 50 Ω ⚠ DC SENSE:INT ALIGN AUTO 02:56:52 PM Nov 05, 2016

Center Freq 15.075000 MHz

PNO: Wide ↻ Trig: Free Run Avg Type: Log-Pwr TRACE 1 2 3 4 5 6
IFGain:Low #Atten: 36 dB Avg|Hold: 47/100 TYPE M W W W W W
DET P P P P P

Ref Offset 7.3 dB
10 dB/div **Ref 28.00 dBm**
Log

Mkr1 24.531 48 MHz
-60.665 dBm

18.0

8.00

-2.00

-12.0

-22.0 -23.00 dBm

-32.0

-42.0

-52.0

♦1

-62.0

Start 150 kHz **Stop 30.00 MHz**
#Res BW 10 kHz **#VBW 30 kHz** **Sweep 285.3 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

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

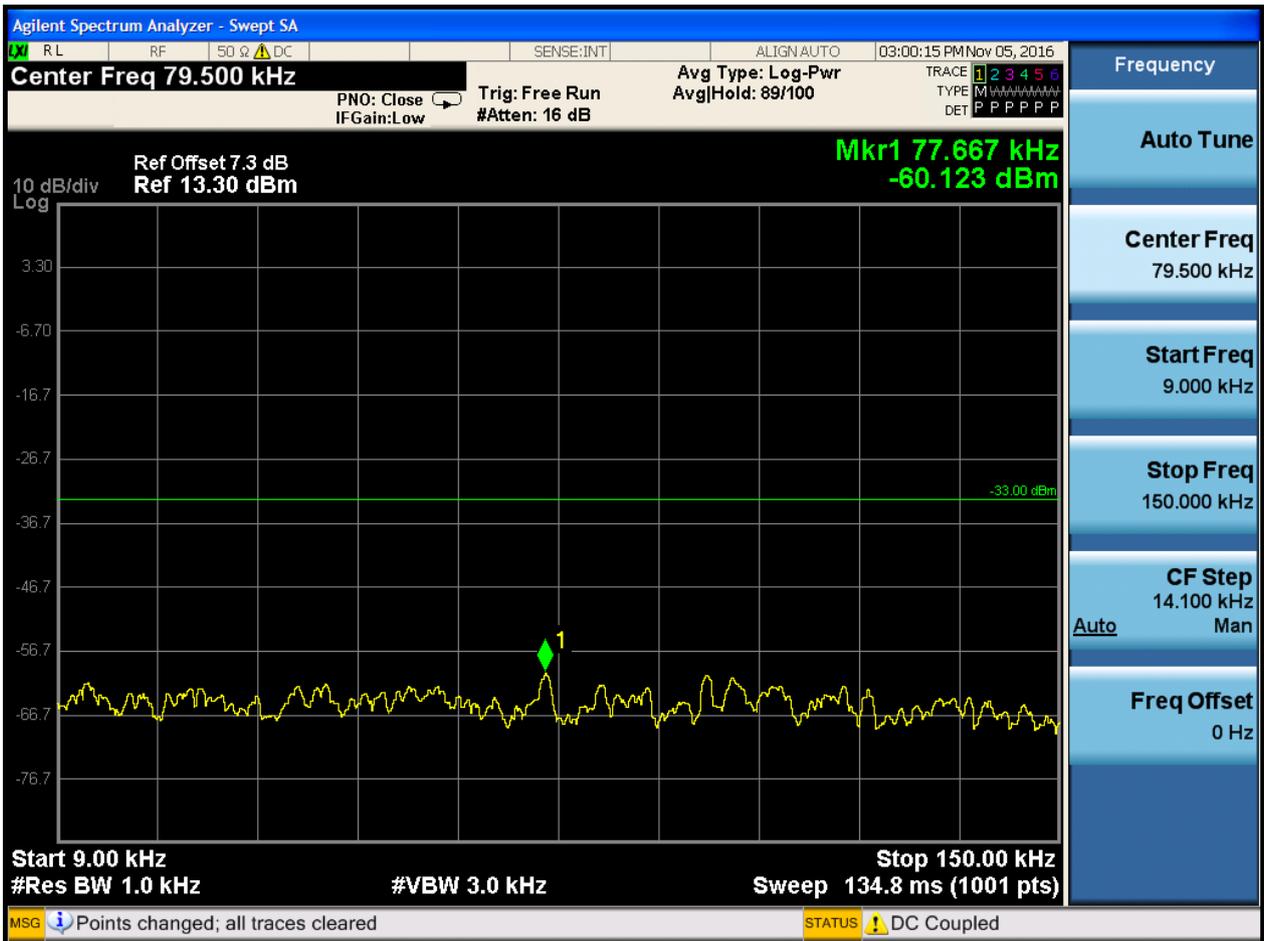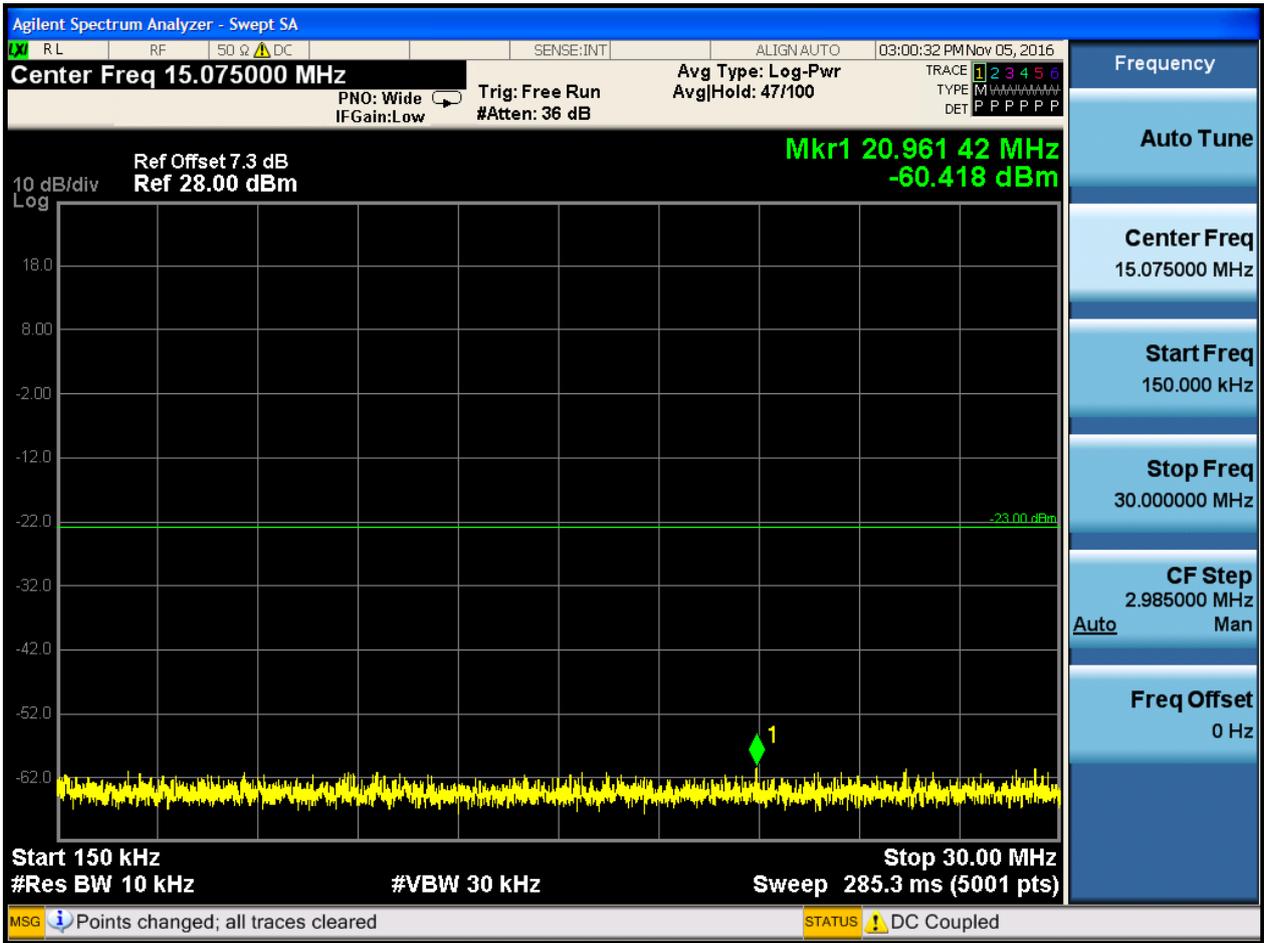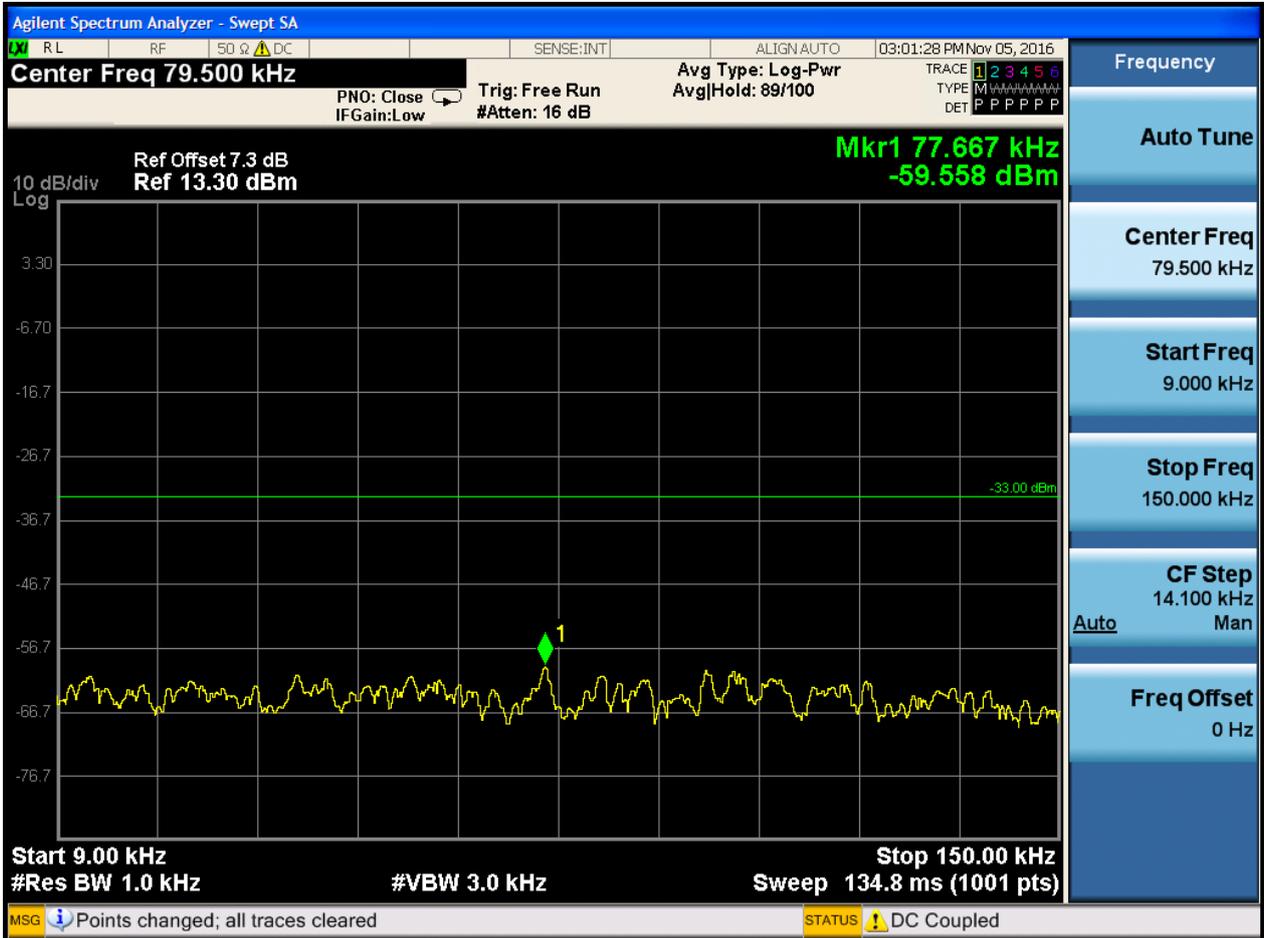### 6.1.1.2.1.3.1 Test RB = RB1#0
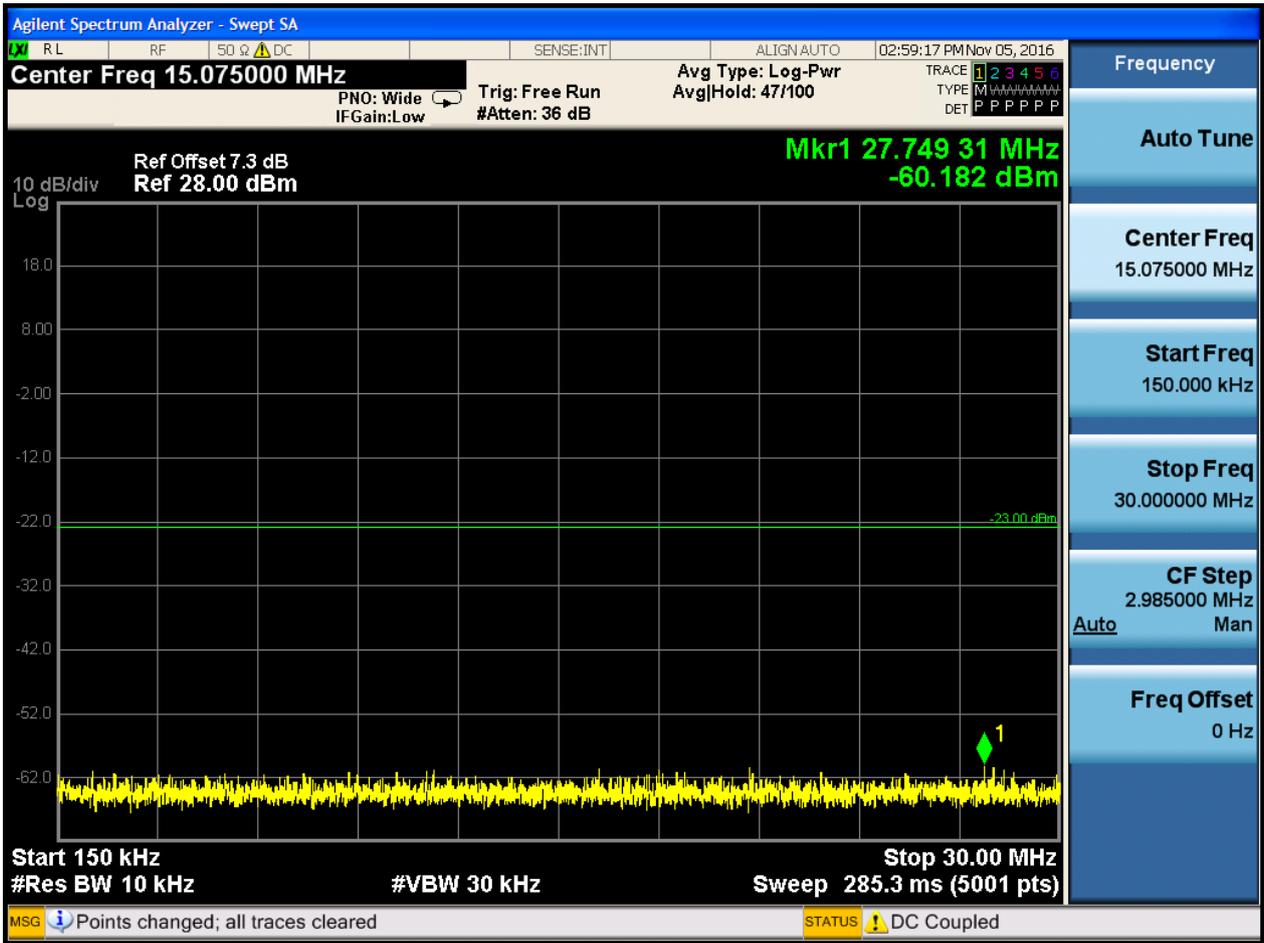
6.1.1.2.2 Test Bandwidth = 3

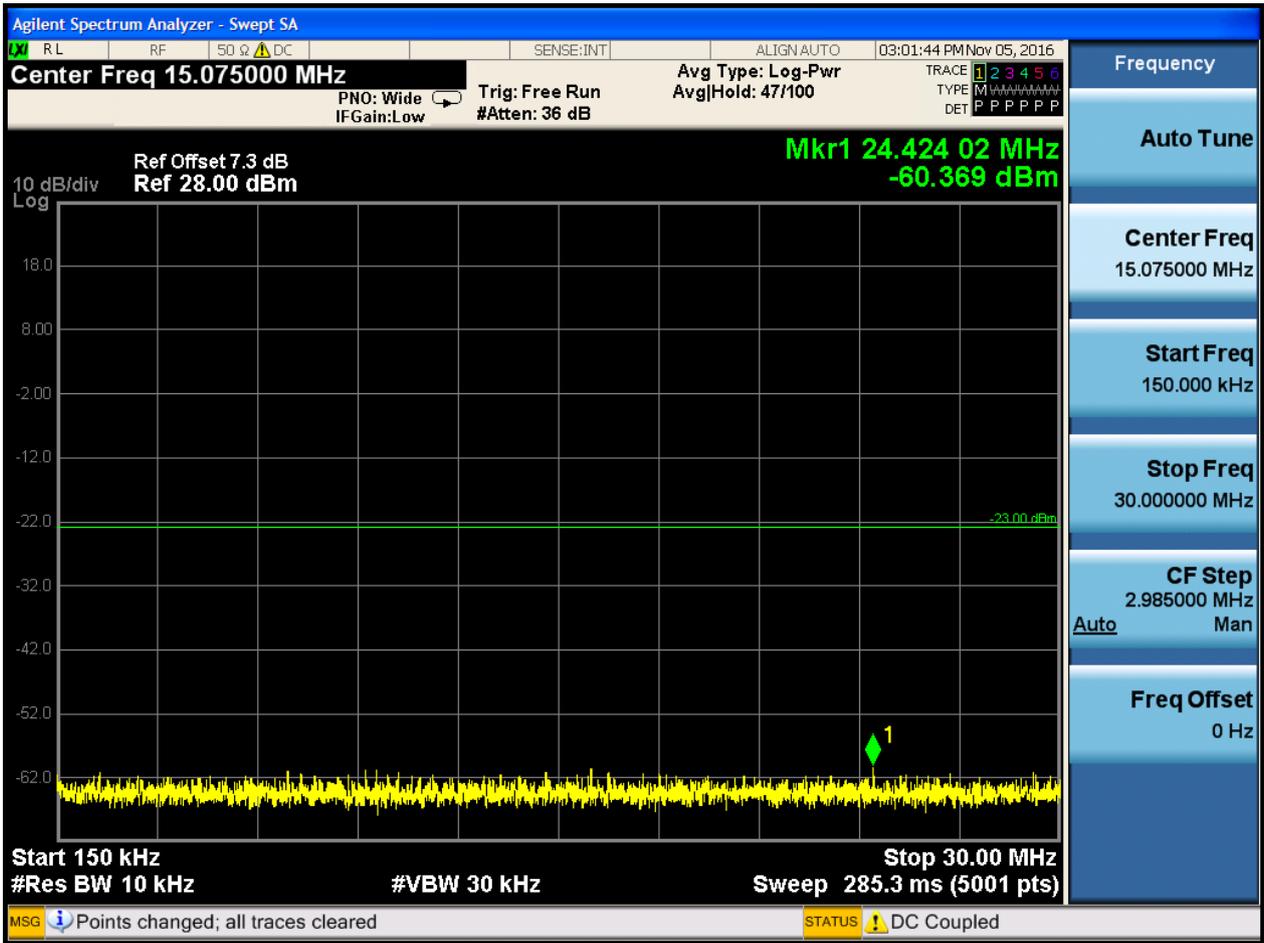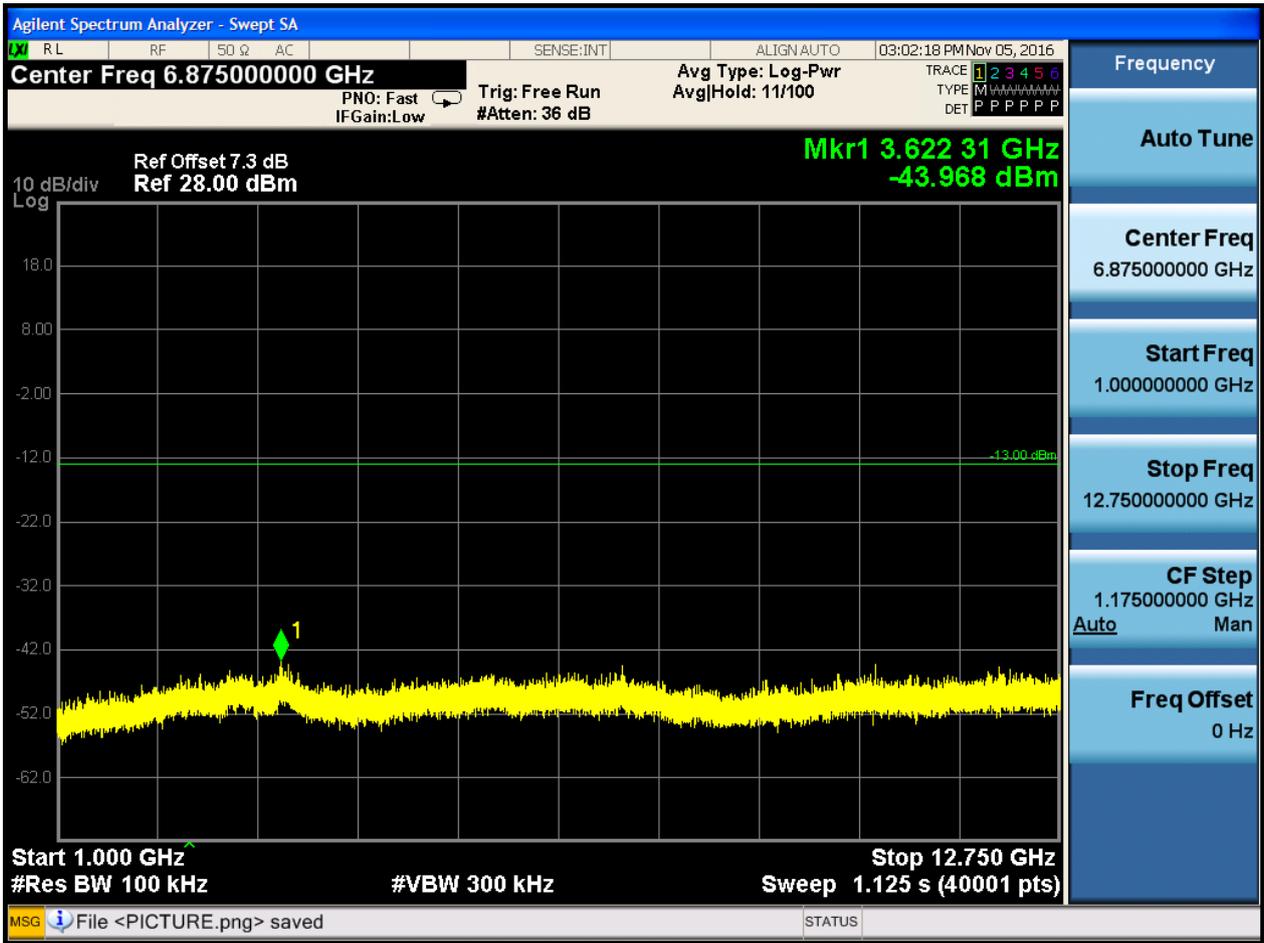### 6.1.1.2.2.1 Test Channel = LCH

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

Agilent Spectrum Analyzer - Swept SA

| R L | RF | 50 Ω DC | | SENSE:INT | ALIGN AUTO | 03:01:44 PM Nov 05, 2016 |

Center Freq 15.075000 MHz

PNO: Wide
IFGain:Low

Trig: Free Run
#Atten: 36 dB

Avg Type: Log-Pwr
Avg|Hold: 47/100

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

Mkr1 24.424 02 MHz
-60.369 dBm

Ref Offset 7.3 dB
10 dB/div **Ref 28.00 dBm**
Log

18.0

8.00

-2.00

-12.0

-22.0   -23.00 dBm

-32.0

-42.0

-52.0
                                                                    1
-62.0

Start 150 kHz   Stop 30.00 MHz
#Res BW 10 kHz   #VBW 30 kHz   Sweep 285.3 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

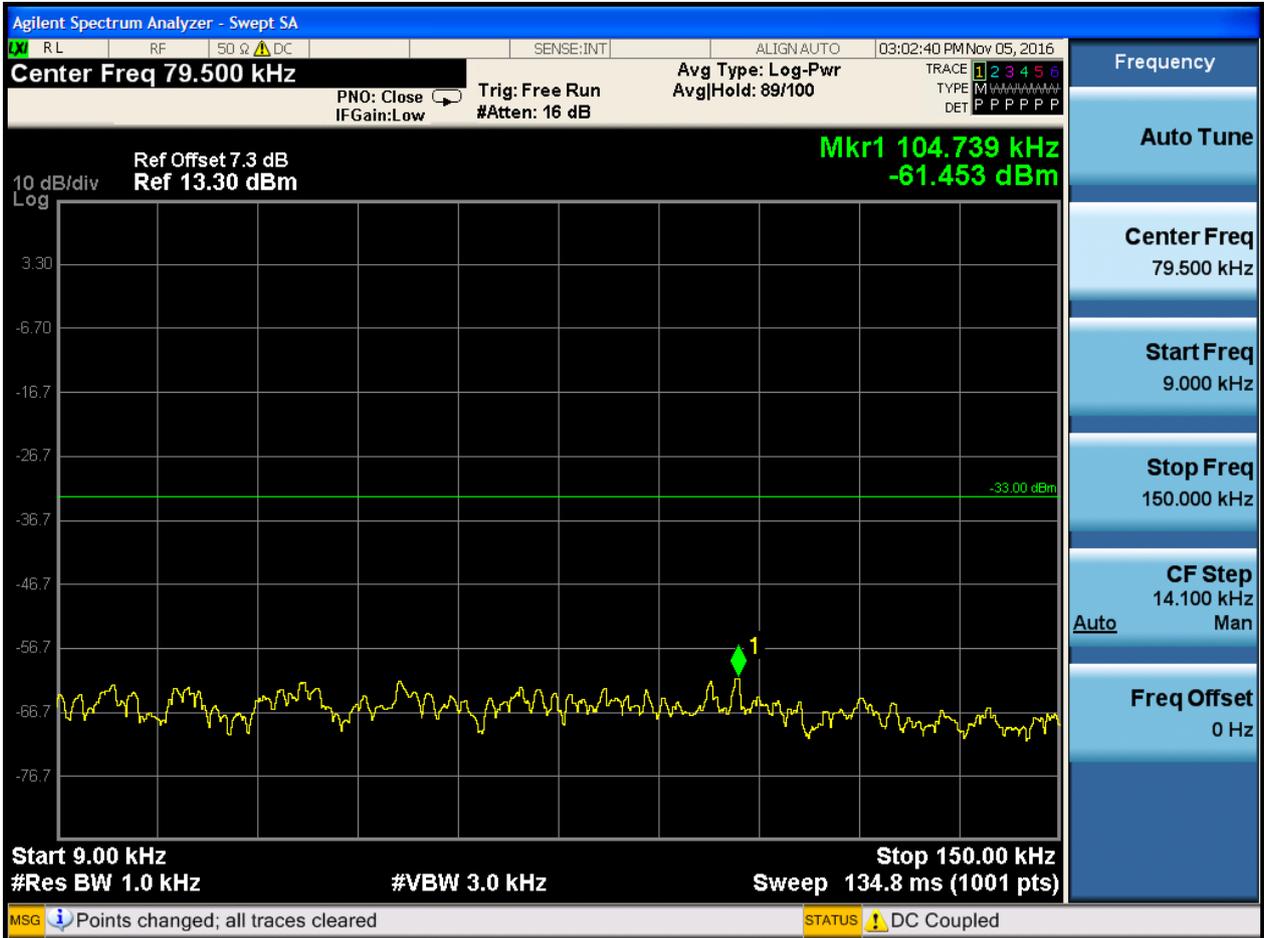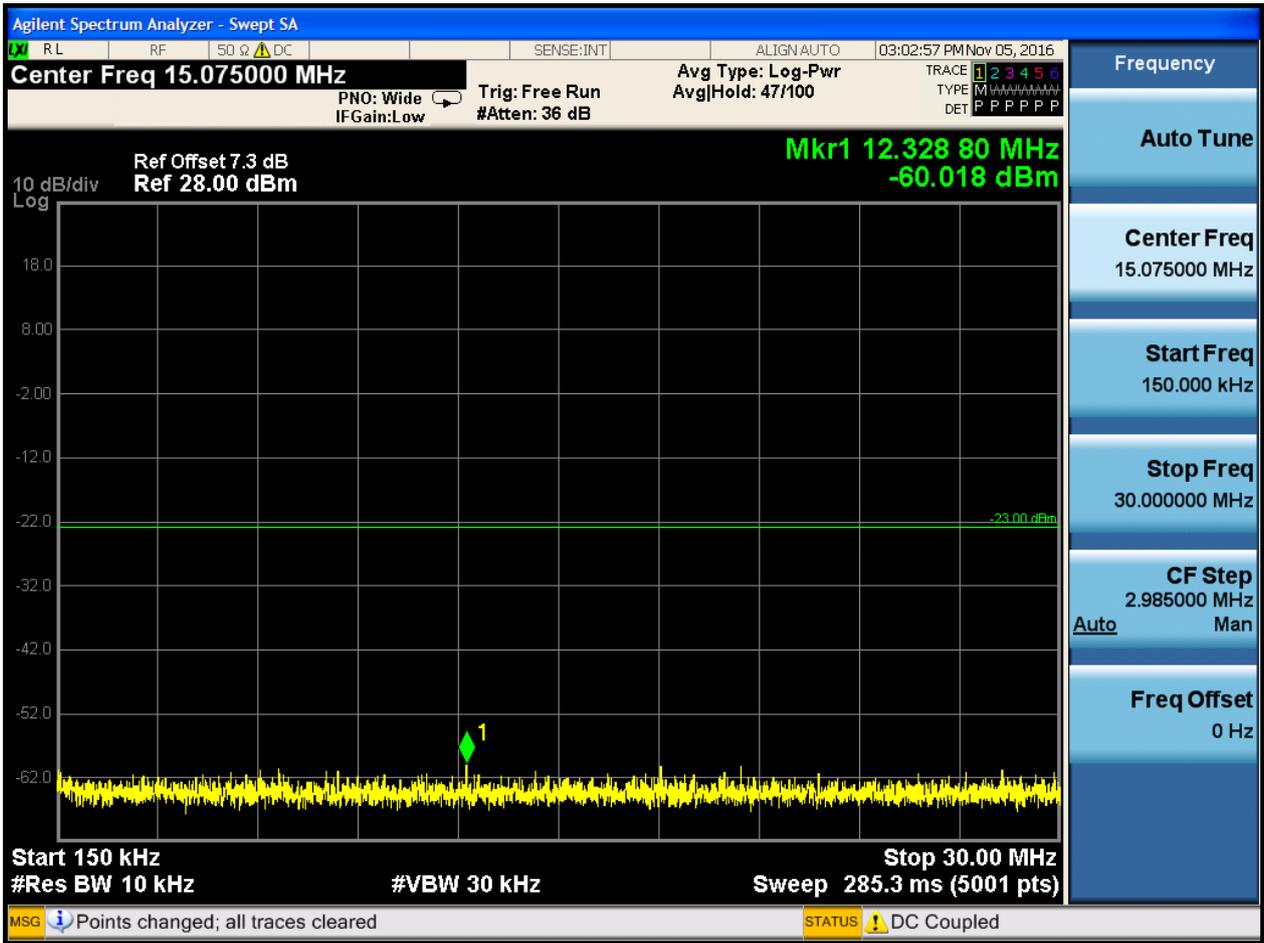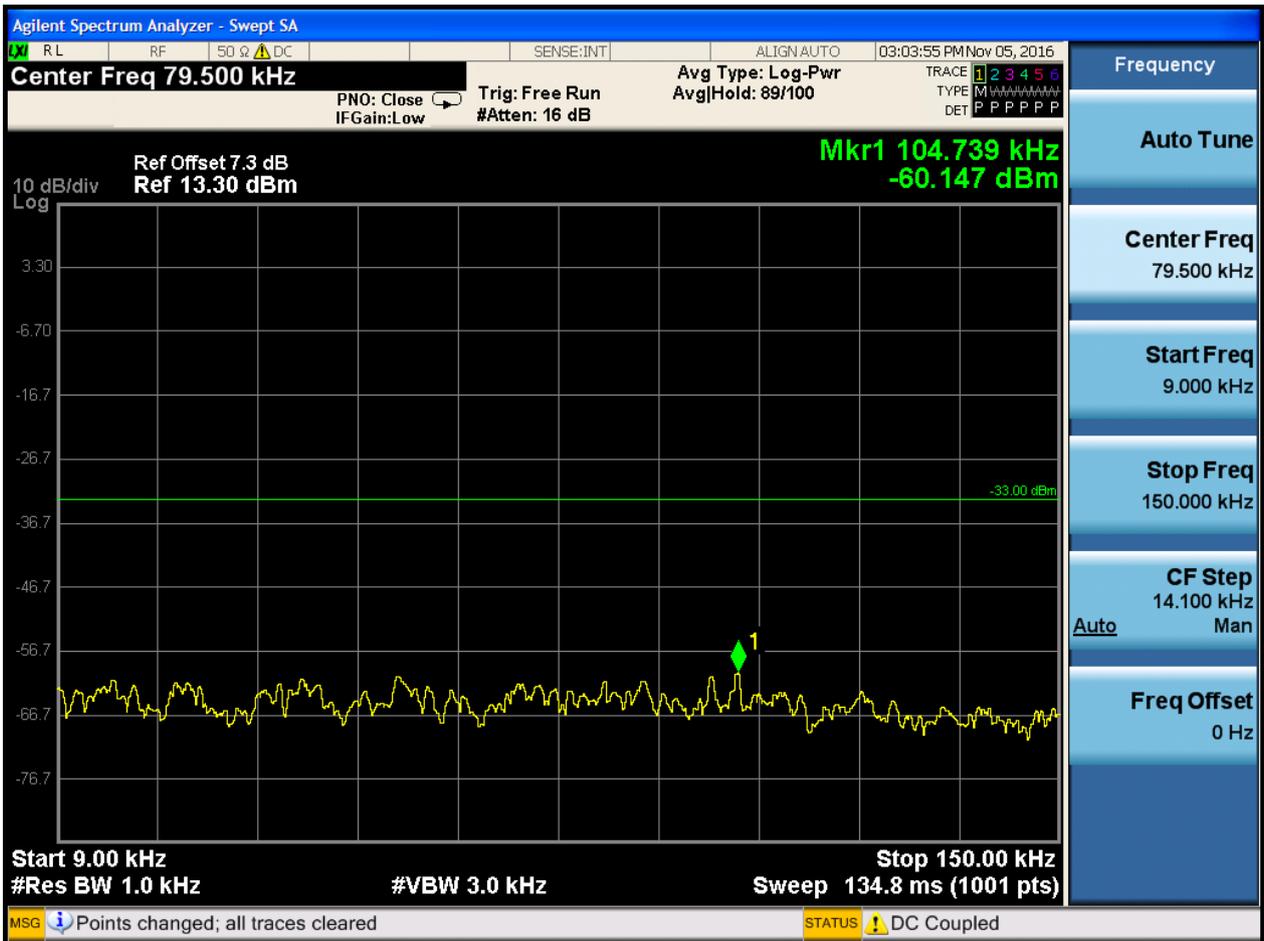**CF Step**
2.985000 MHz
Auto   Man

Freq Offset
0 Hz

6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0

Agilent Spectrum Analyzer - Swept SA

LXI	R L	RF	50 Ω	AC		SENSE:INT	ALIGN AUTO	03:03:14 PM Nov 05, 2016

Center Freq 515.000000 MHz

PNO: Fast
IFGain:Low

Trig: Free Run
#Atten: 36 dB

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

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

Ref Offset 7.3 dB
10 dB/div **Ref 28.00 dBm**
Log

Mkr1 846.255 MHz
24.980 dBm

1

18.0

8.00

-2.00

-12.0   -13.00 dBm

-22.0

-32.0

-42.0

-52.0

-62.0

Start 30.0 MHz
#Res BW 100 kHz   **#VBW 300 kHz**

Stop 1.0000 GHz
Sweep 93.33 ms (40001 pts)

MSG ⓘ Points changed; all traces cleared   STATUS

Frequency

Auto Tune

Center Freq
515.000000 MHz

Start Freq
30.000000 MHz

Stop Freq
1.000000000 GHz

CF Step
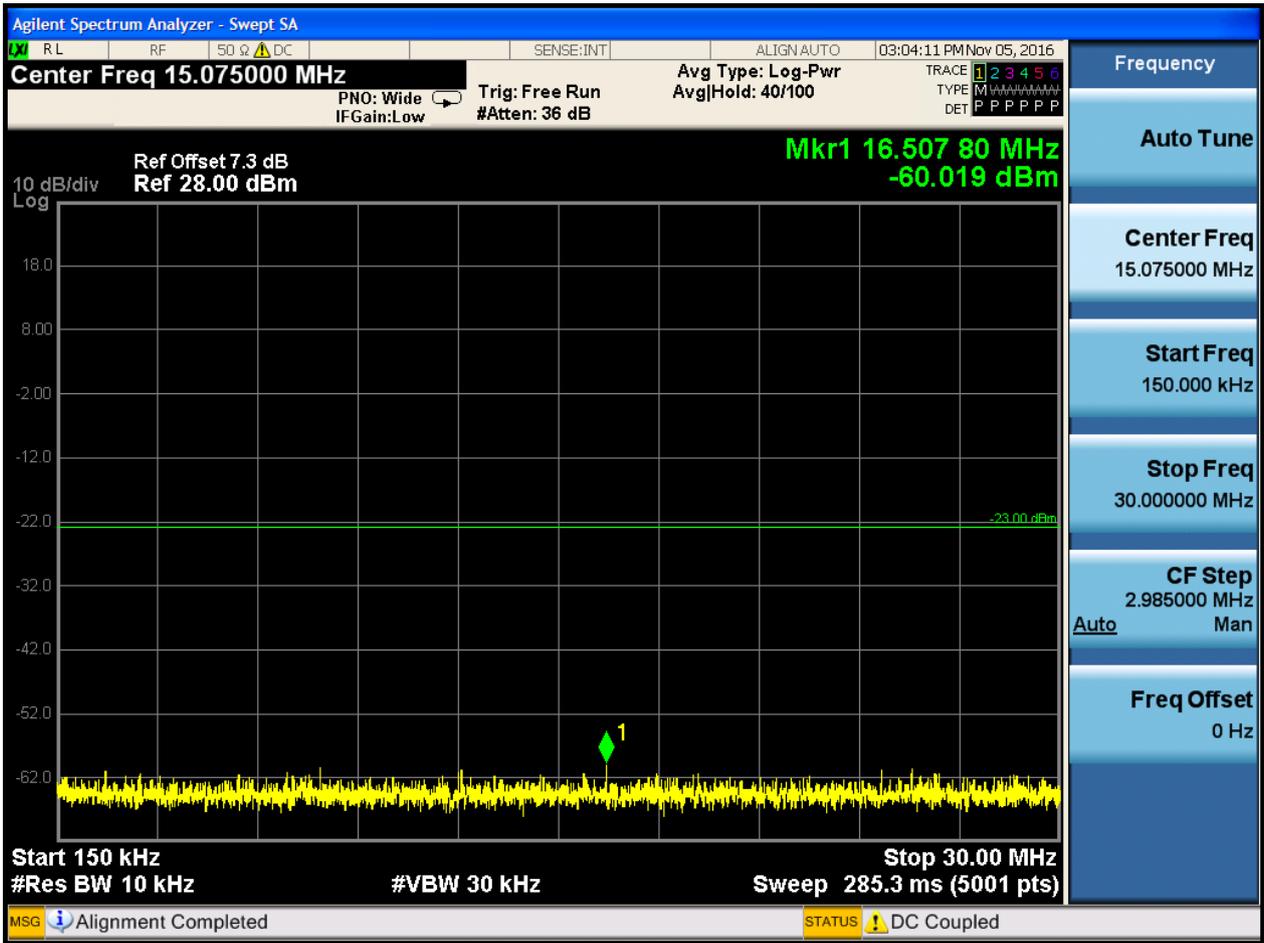97.000000 MHz
Auto   Man

Freq Offset
0 Hz

6.1.1.2.3 Test Bandwidth = 5

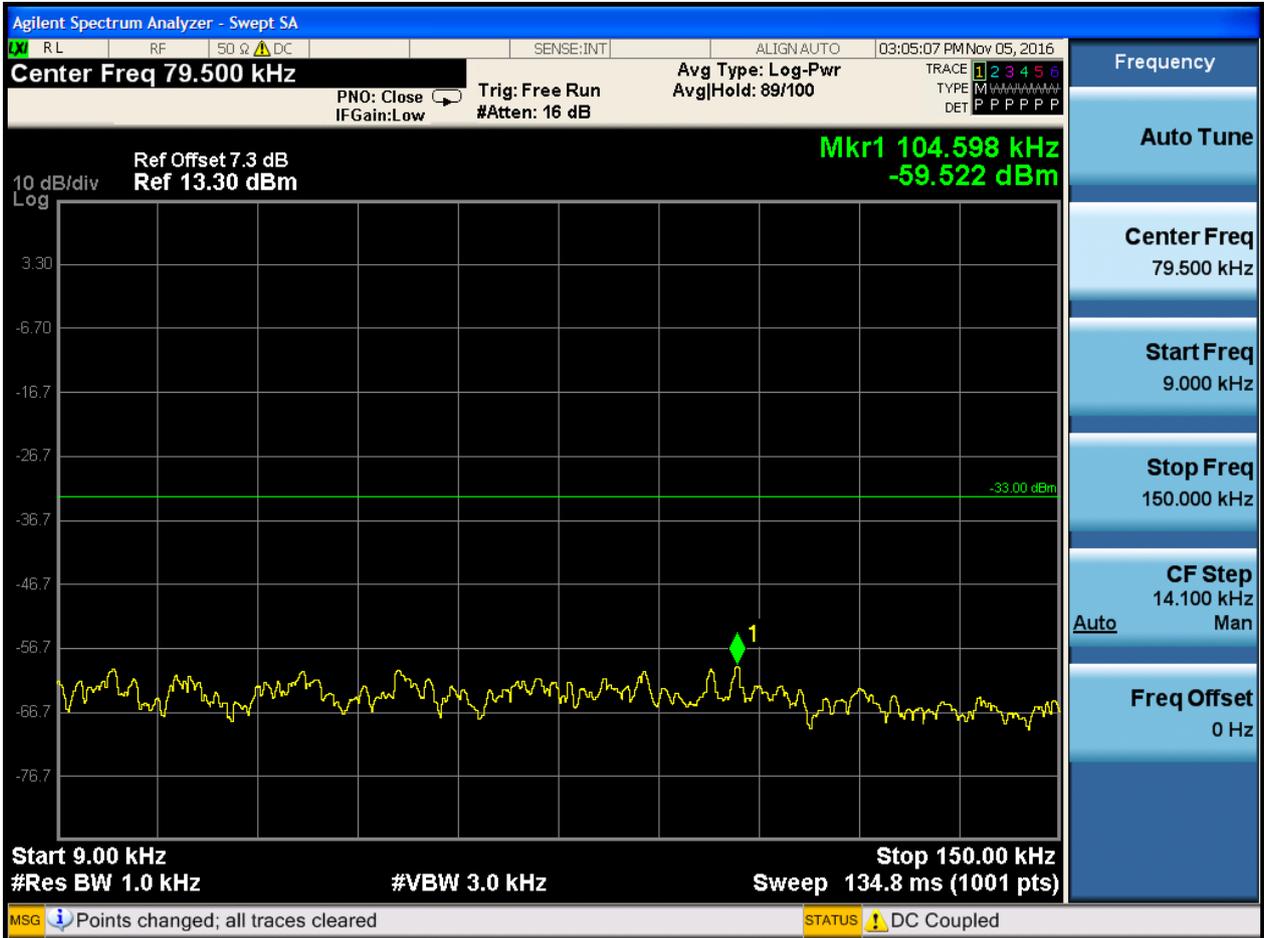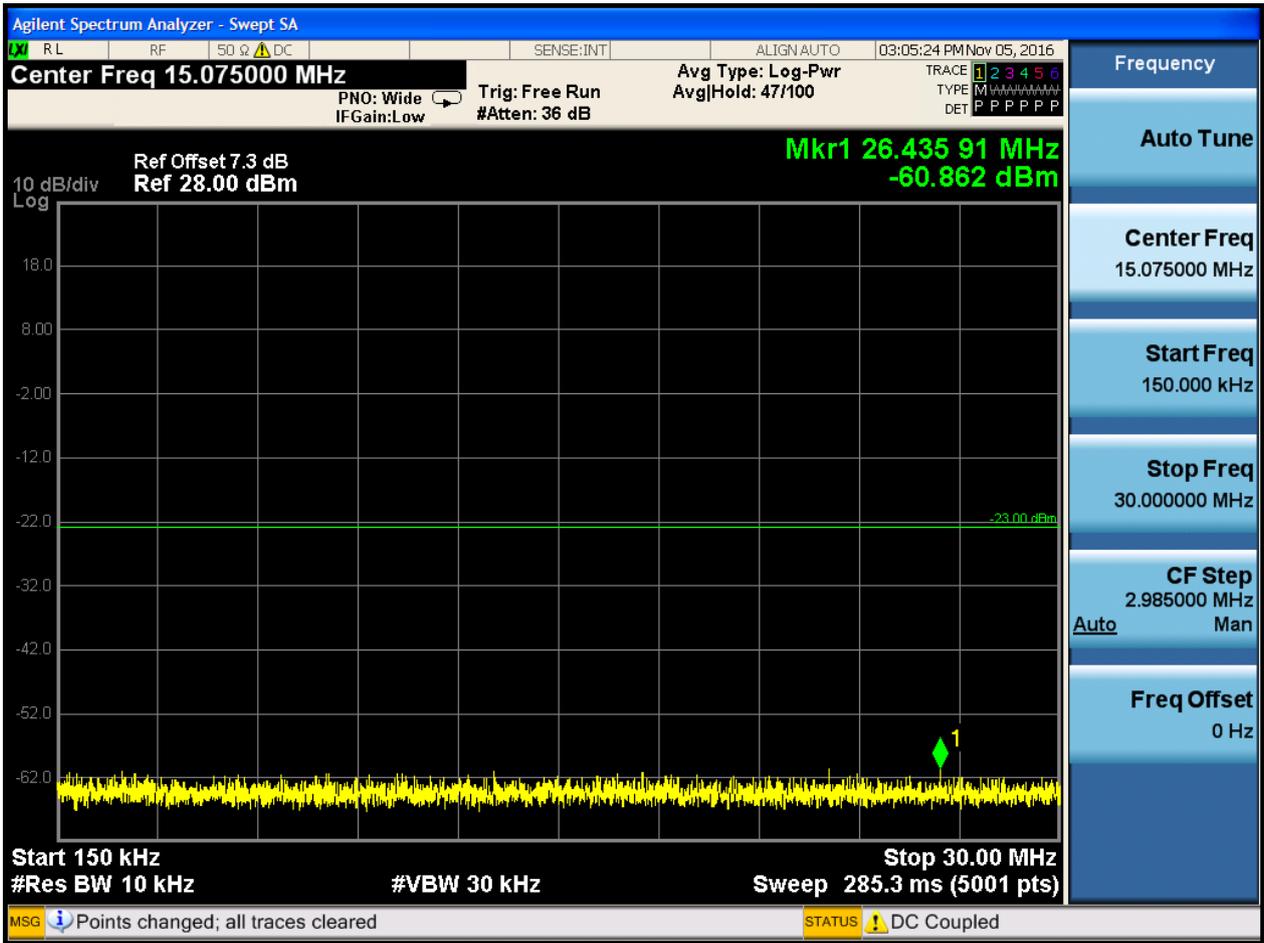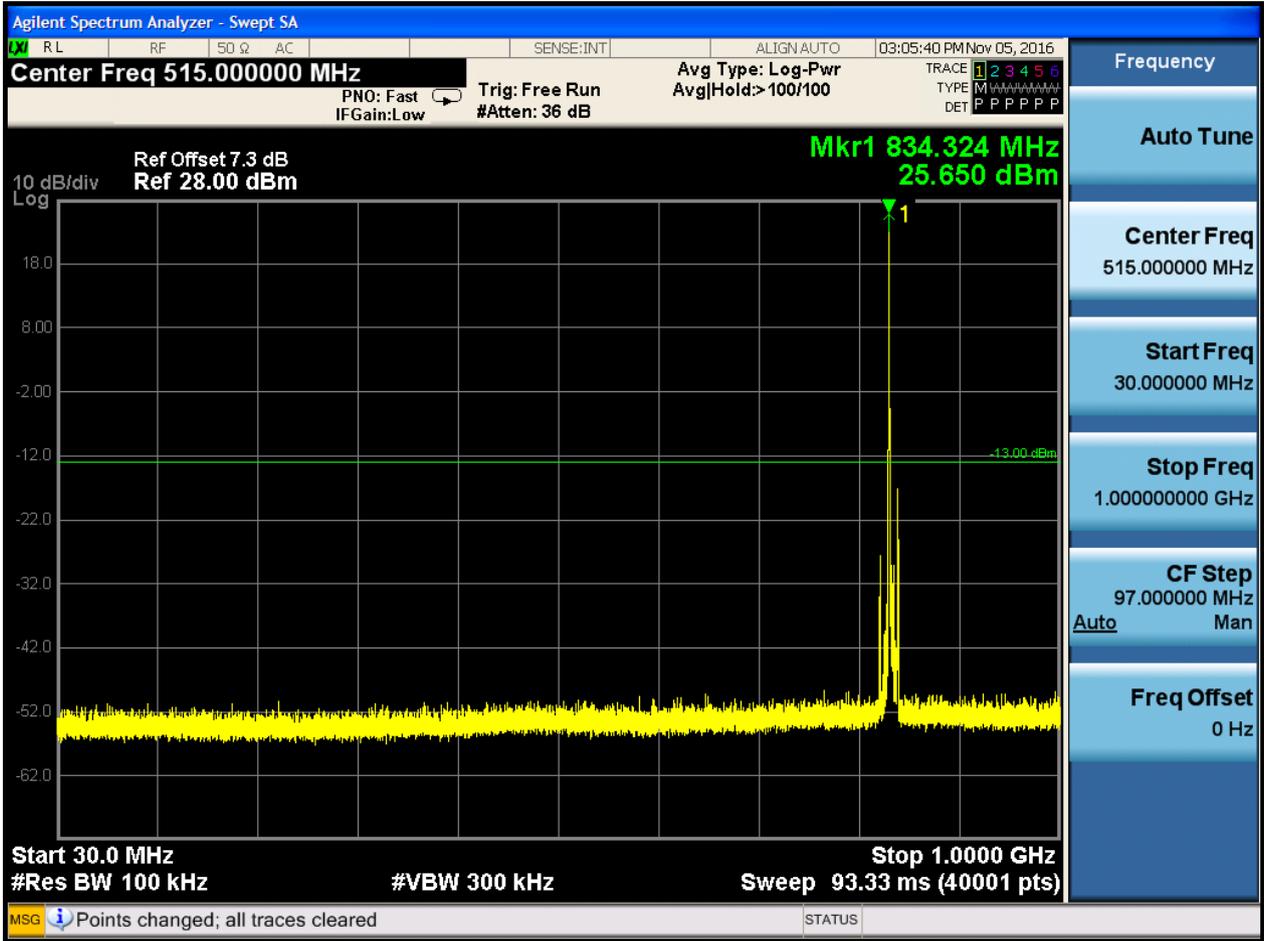### 6.1.1.2.3.1 Test Channel = LCH

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

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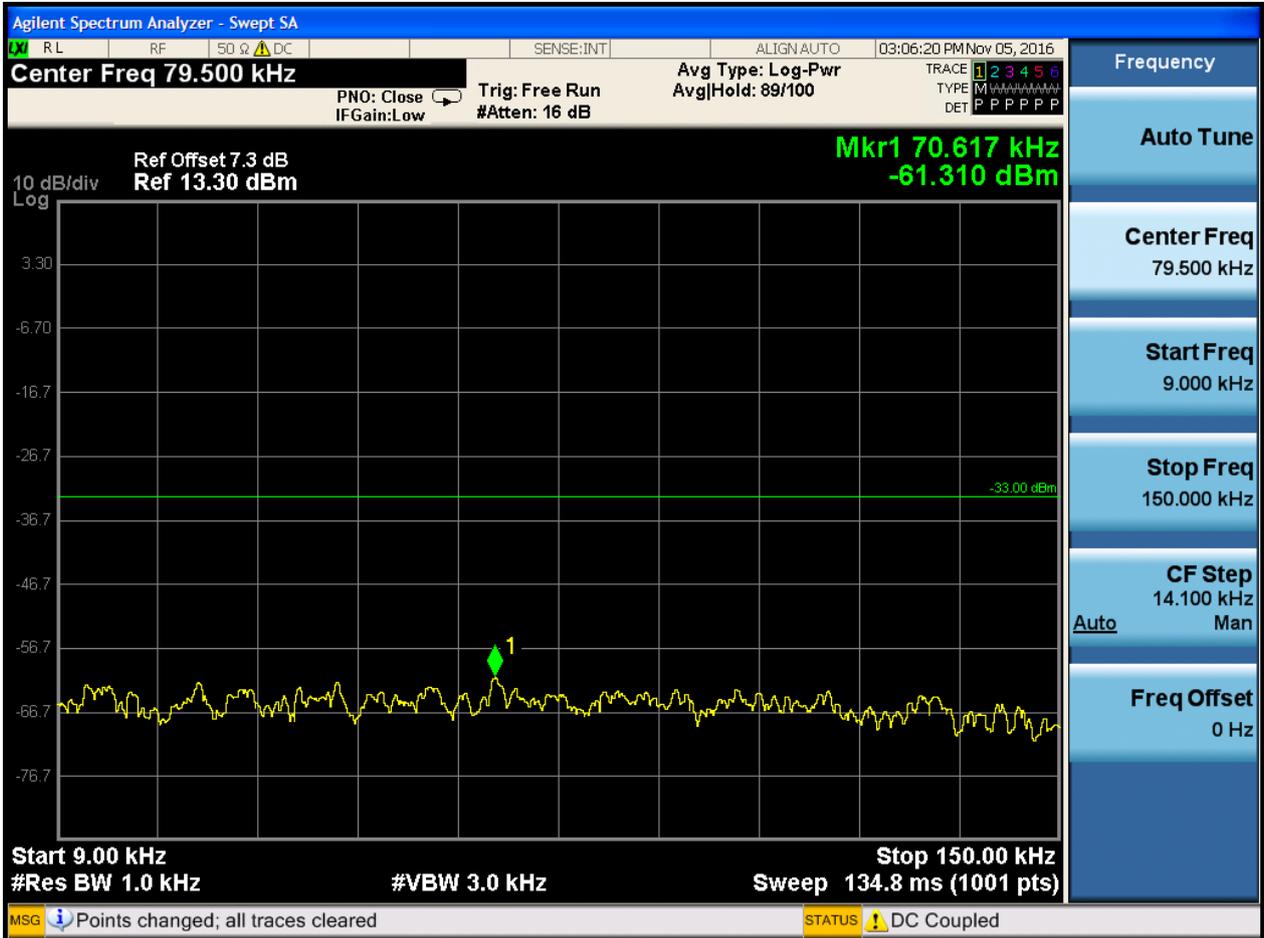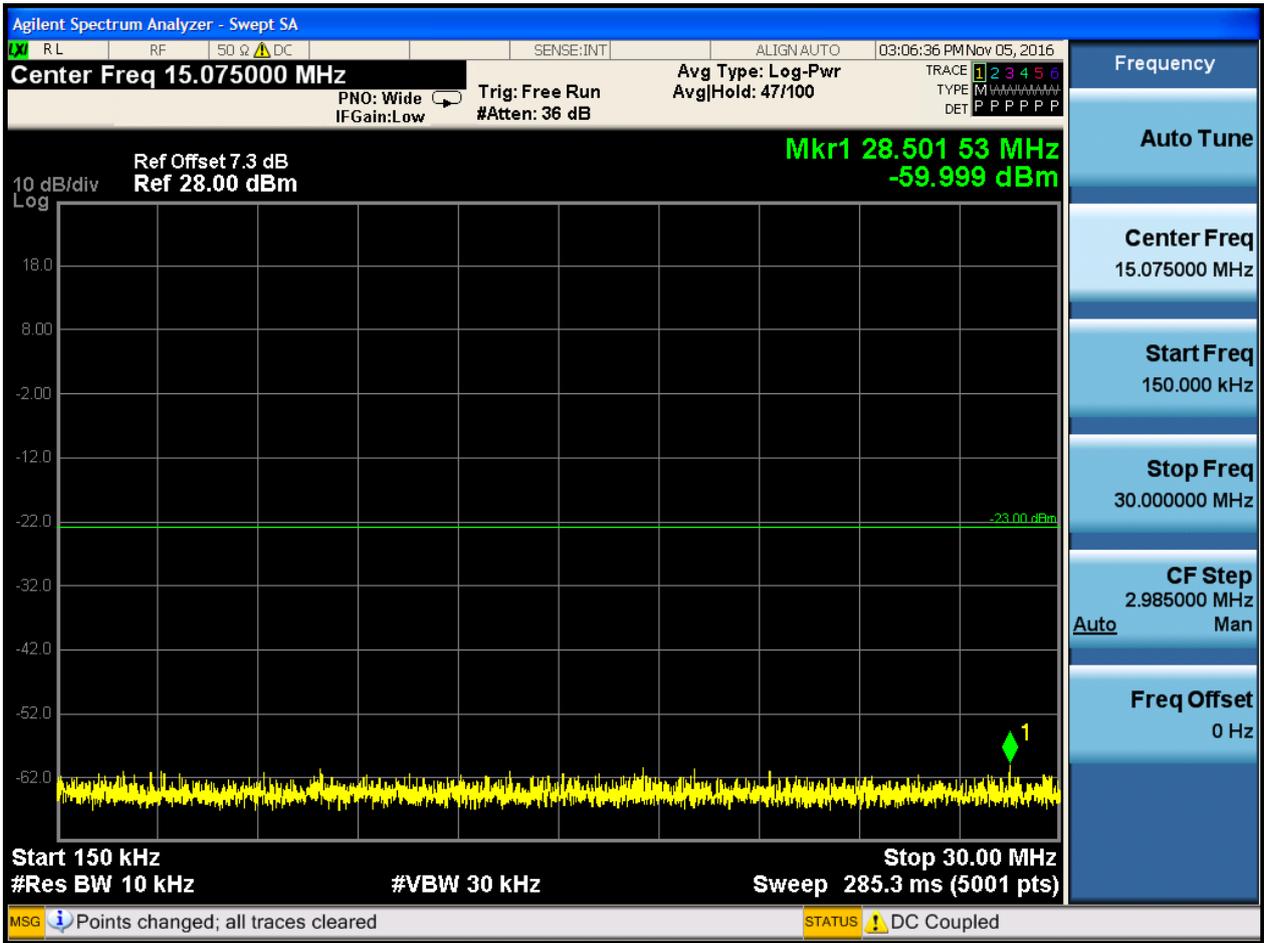Copyright © Huawei Technologies Co., Ltd.

6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0

Agilent Spectrum Analyzer - Swept SA

| LXI | R L | | RF | 50 Ω ⚠ DC | | | SENSE:INT | | ALIGN AUTO | 03:06:36 PM Nov 05, 2016 |

Center Freq 15.075000 MHz

PNO: Wide ↻
IFGain:Low

Trig: Free Run
#Atten: 36 dB

Avg Type: Log-Pwr
Avg|Hold: 47/100

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

Ref Offset 7.3 dB
Ref 28.00 dBm

10 dB/div
Log

Mkr1 28.501 53 MHz
-59.999 dBm

18.0

8.00

-2.00

-12.0

-22.0   -23.00 dBm

-32.0

-42.0

-52.0
                                                                        ◆1

-62.0

Start 150 kHz   **Stop 30.00 MHz**
#Res BW 10 kHz   **#VBW 30 kHz**   **Sweep 285.3 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
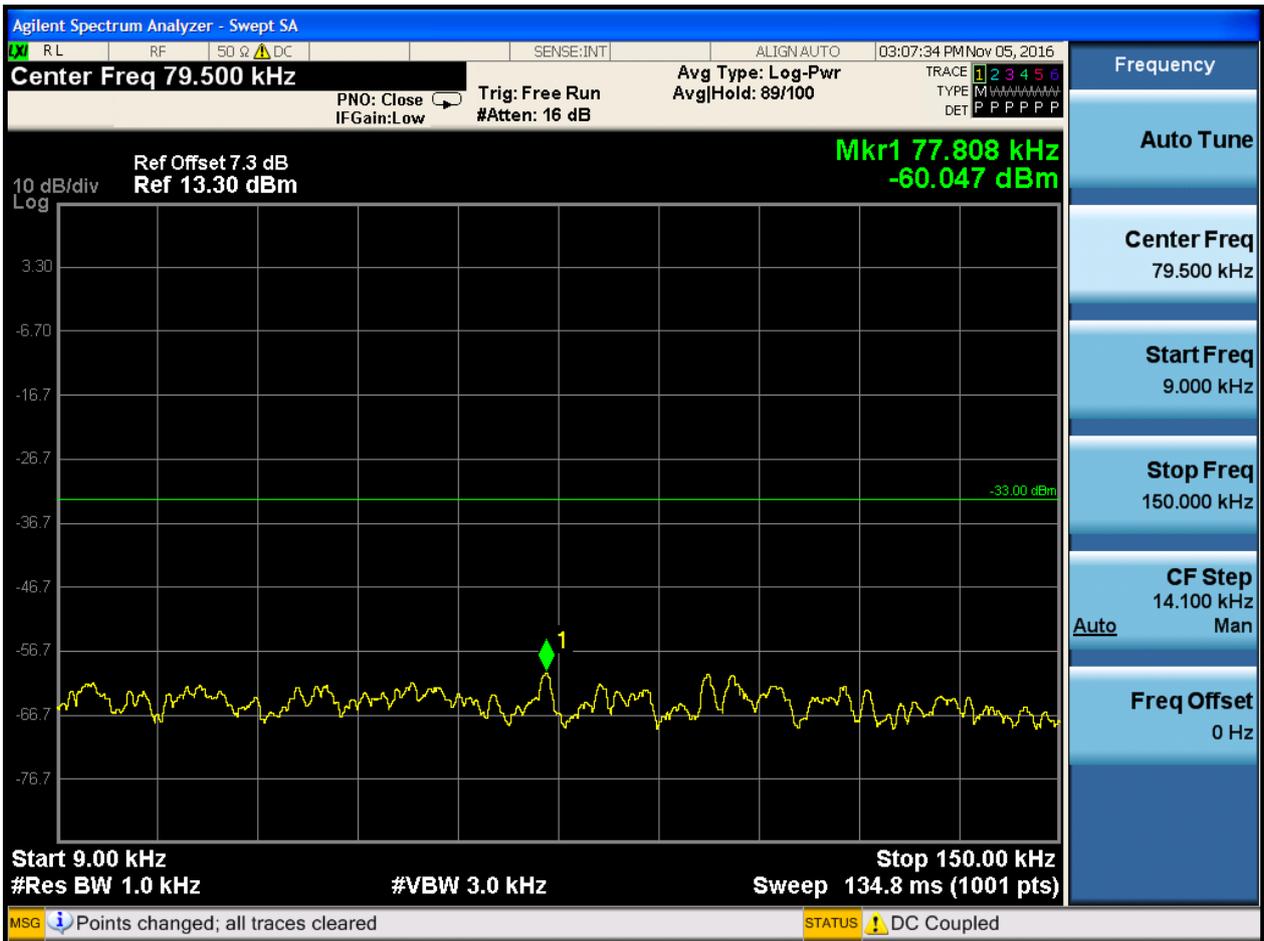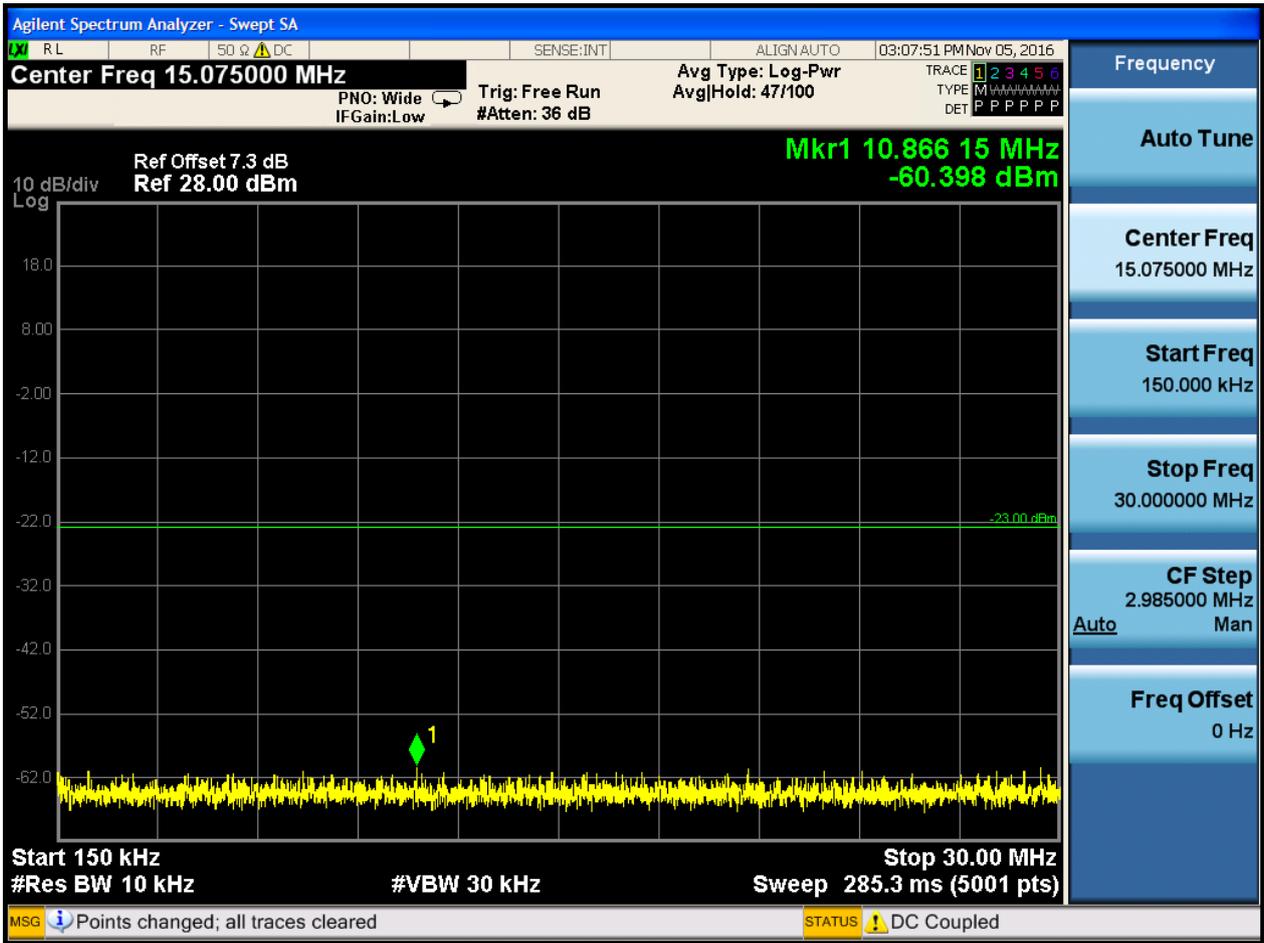2.985000 MHz
Auto   Man

Freq Offset
0 Hz

6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

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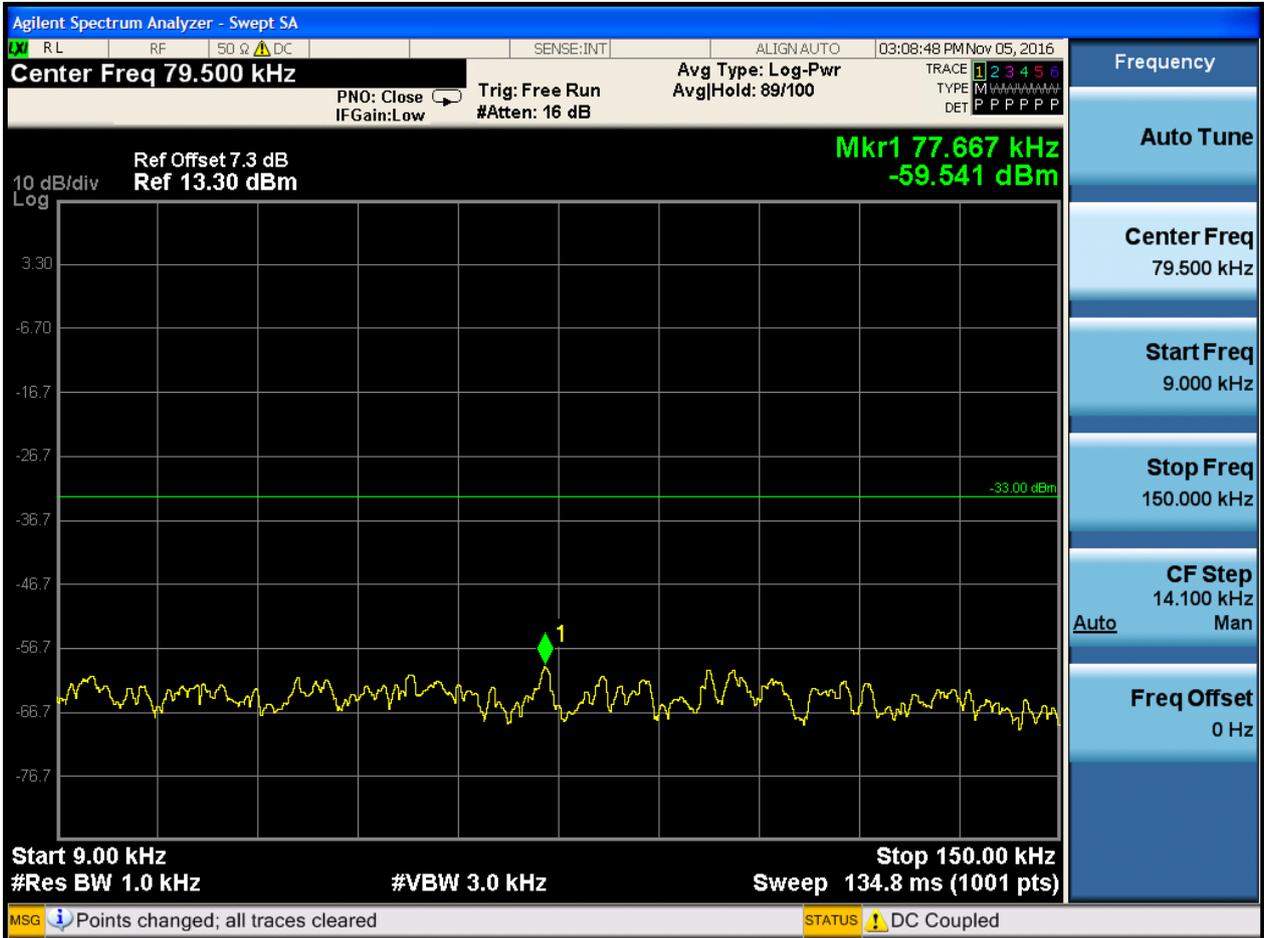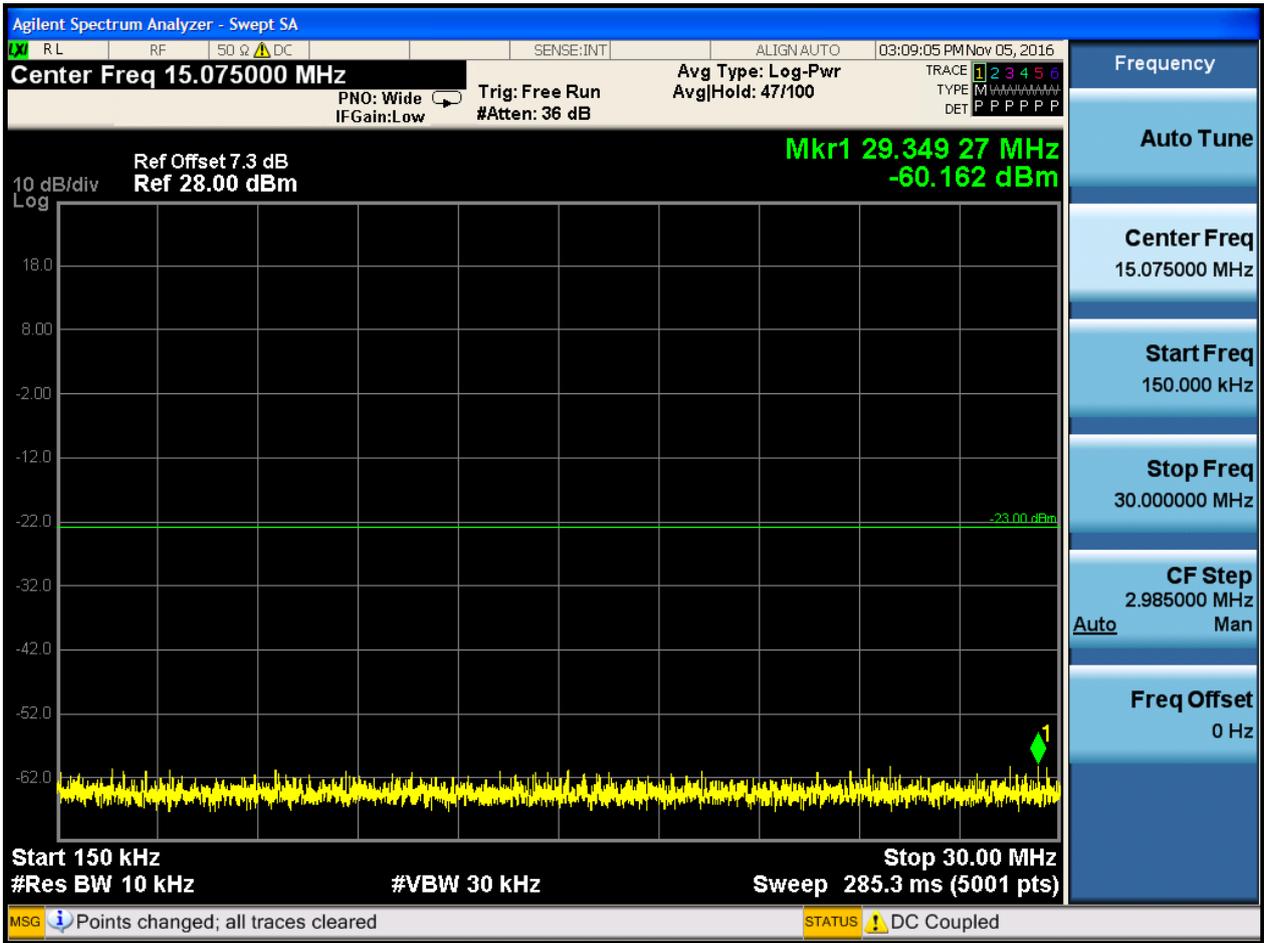
6.1.1.2.4.2 Test Channel = MCH

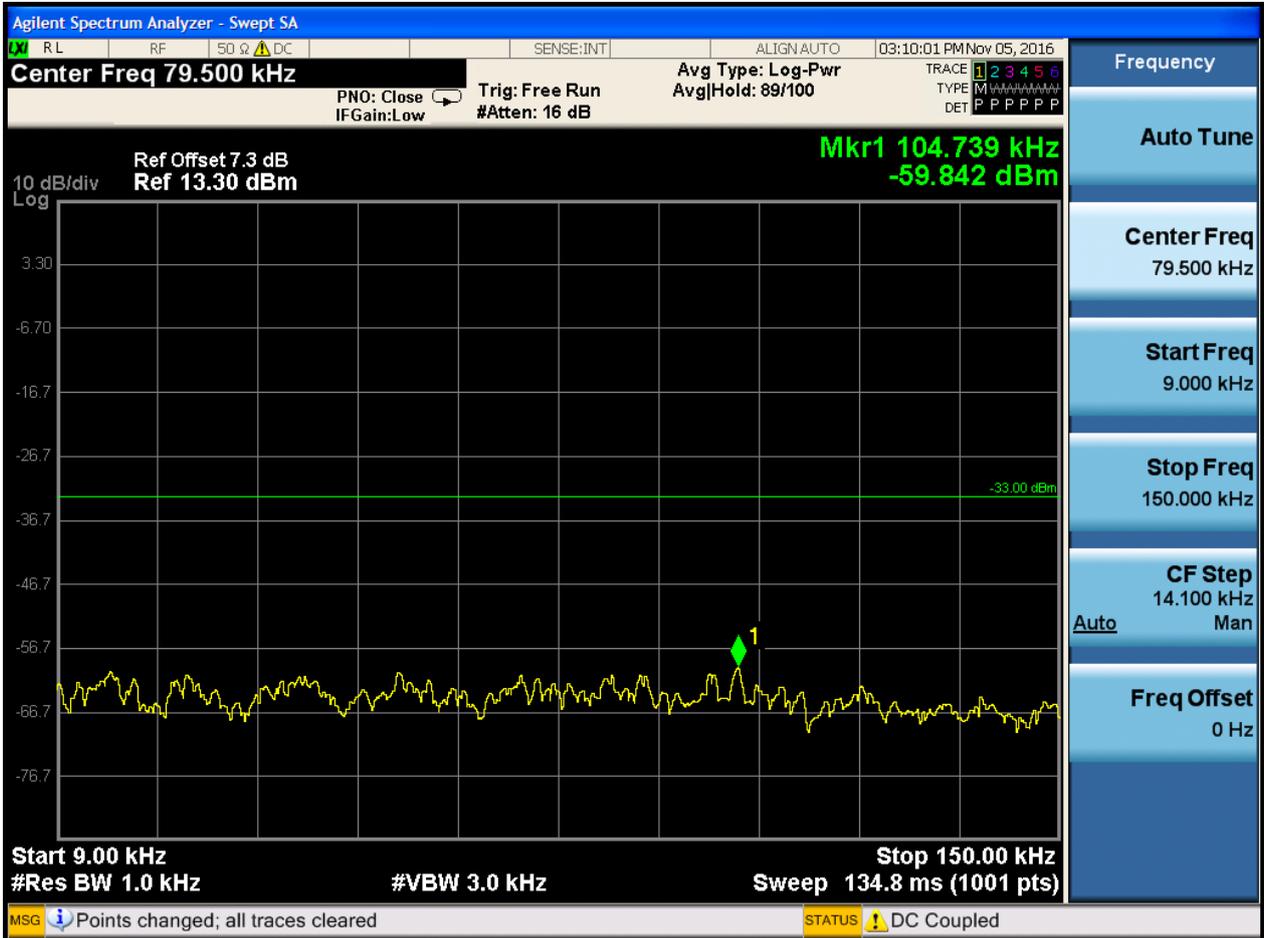## 6.1.1.2.4.2.1 Test RB = RB1#0

6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0
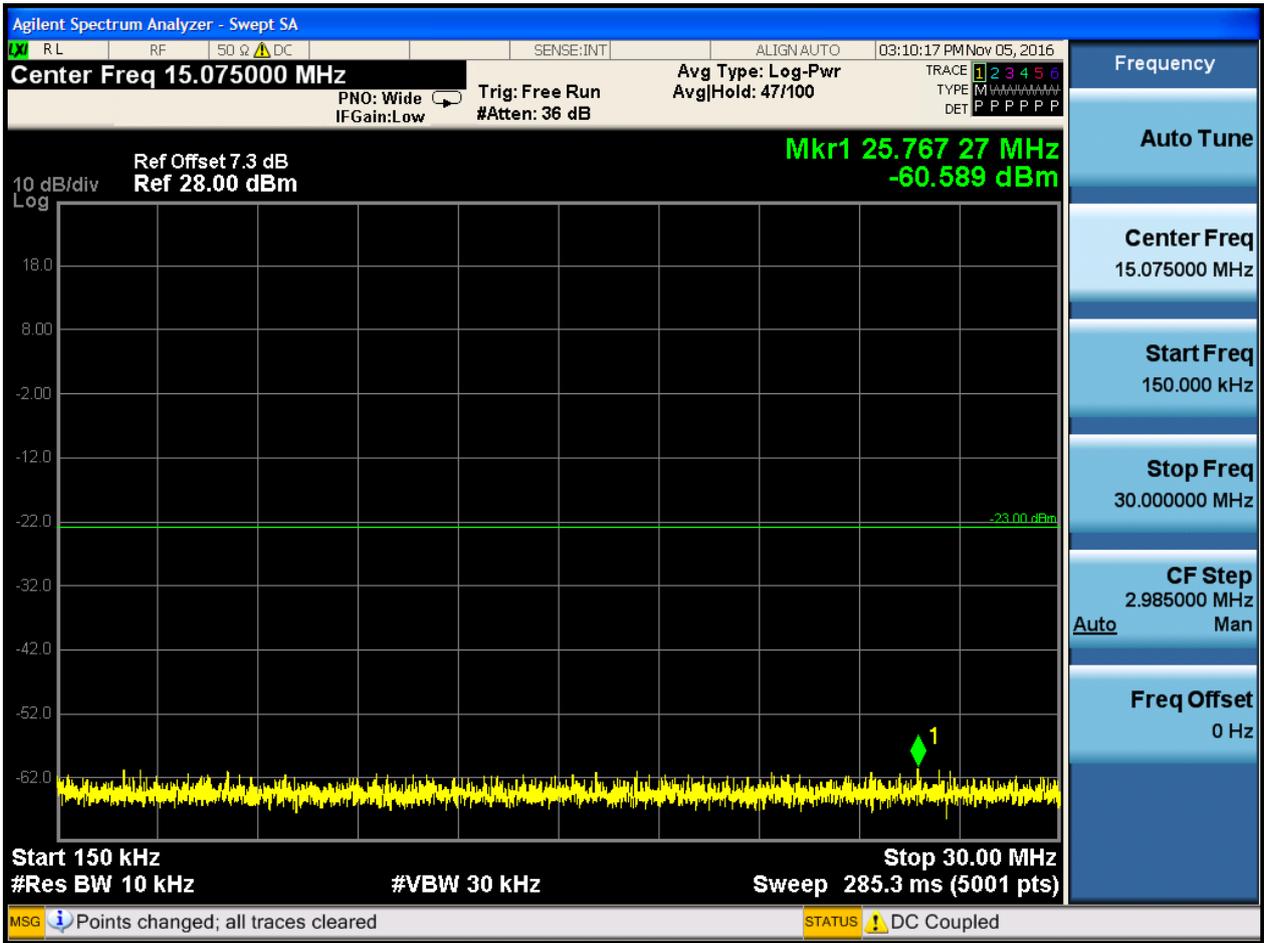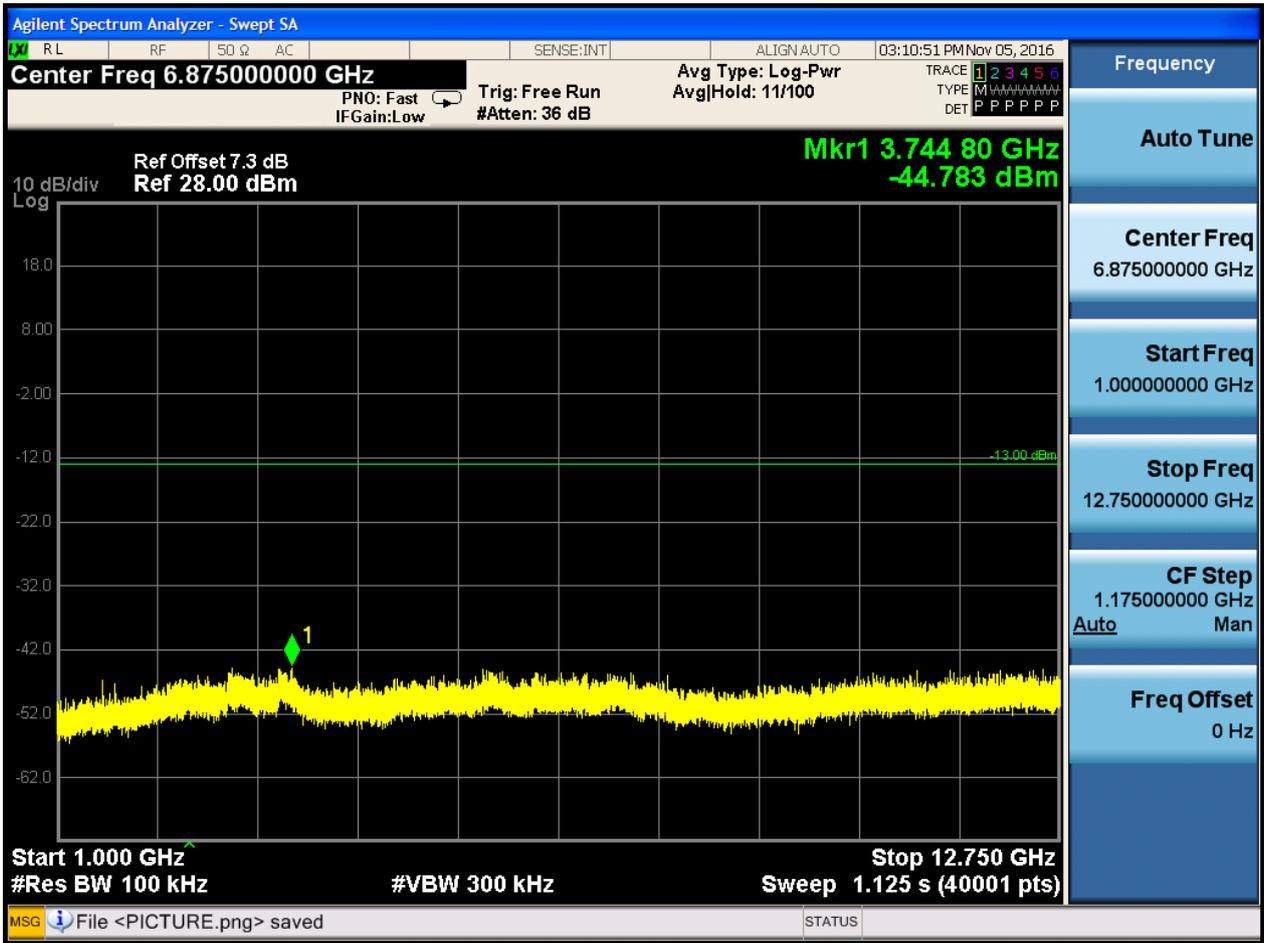
7Appendix_G: Field Strength of Spurious Radiation

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 = BAND5

7.1.1.1 Test Bandwidth = 1.4

Copy of FCC PART22 LTE Band 5_L

Copy of FCC PART22 LTE Band 5_H

7.1.1.3 Test Bandwidth = 10
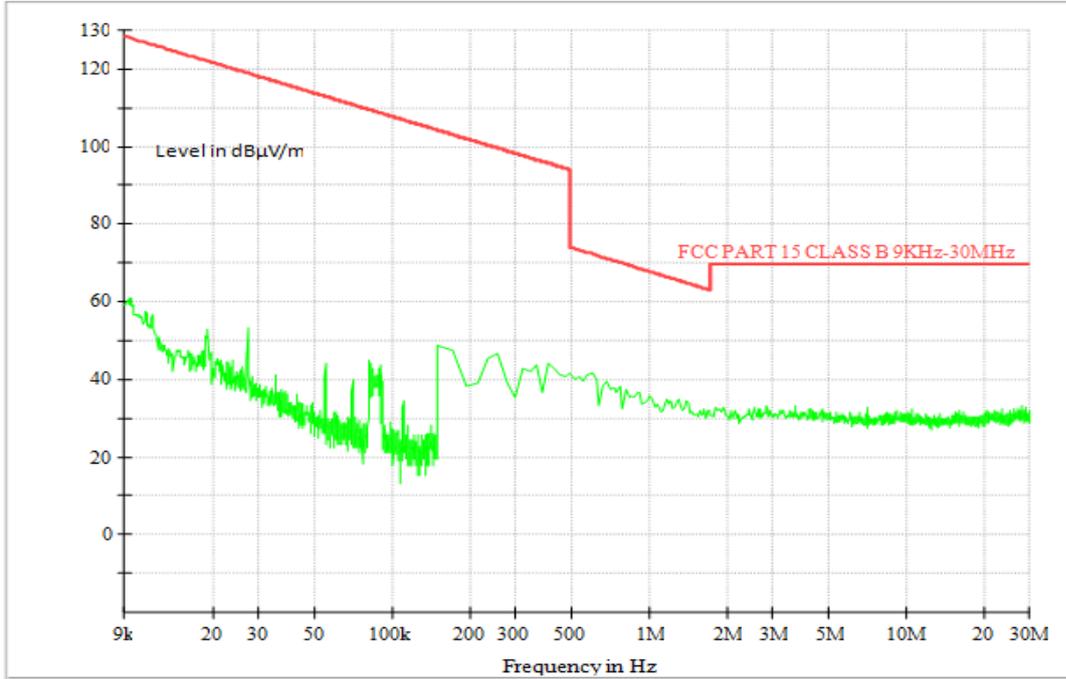
Copy of R SE-T X-D IRECTOR BELOW 1G_L
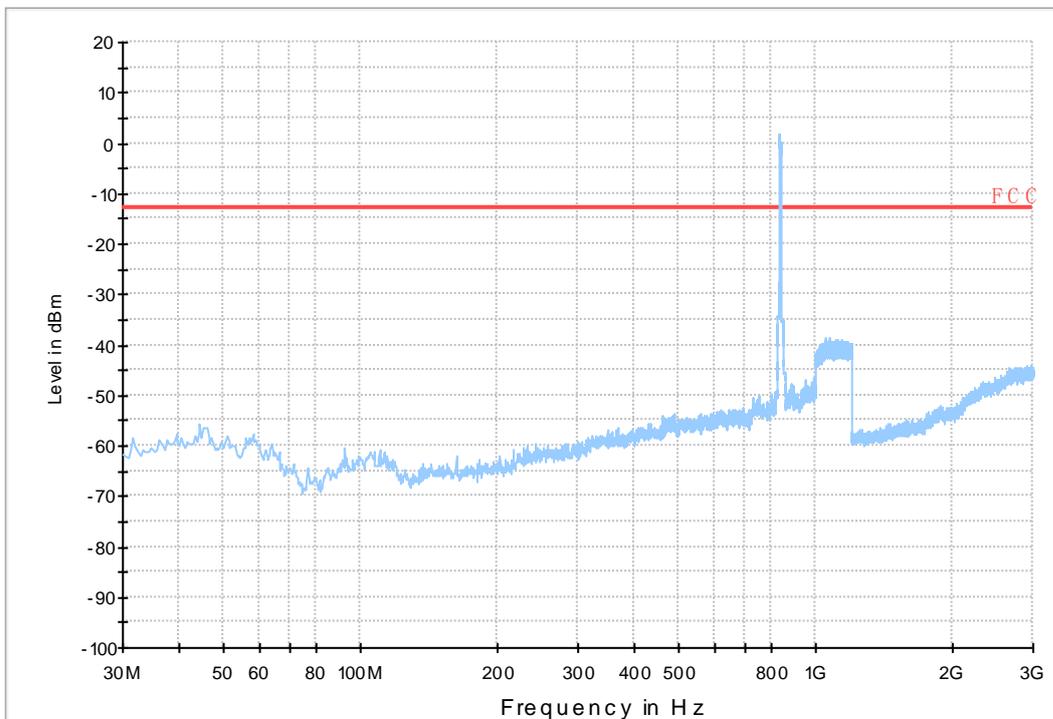
Copy of R SE-T X-D IR E CTO R BELOW 1G_H
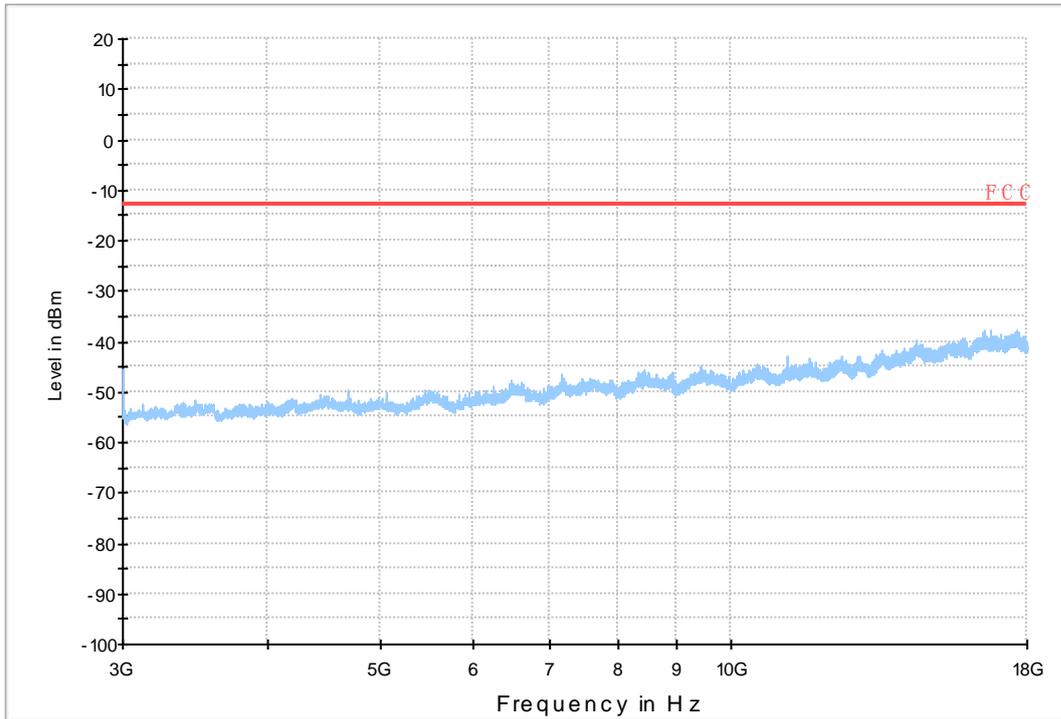
8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

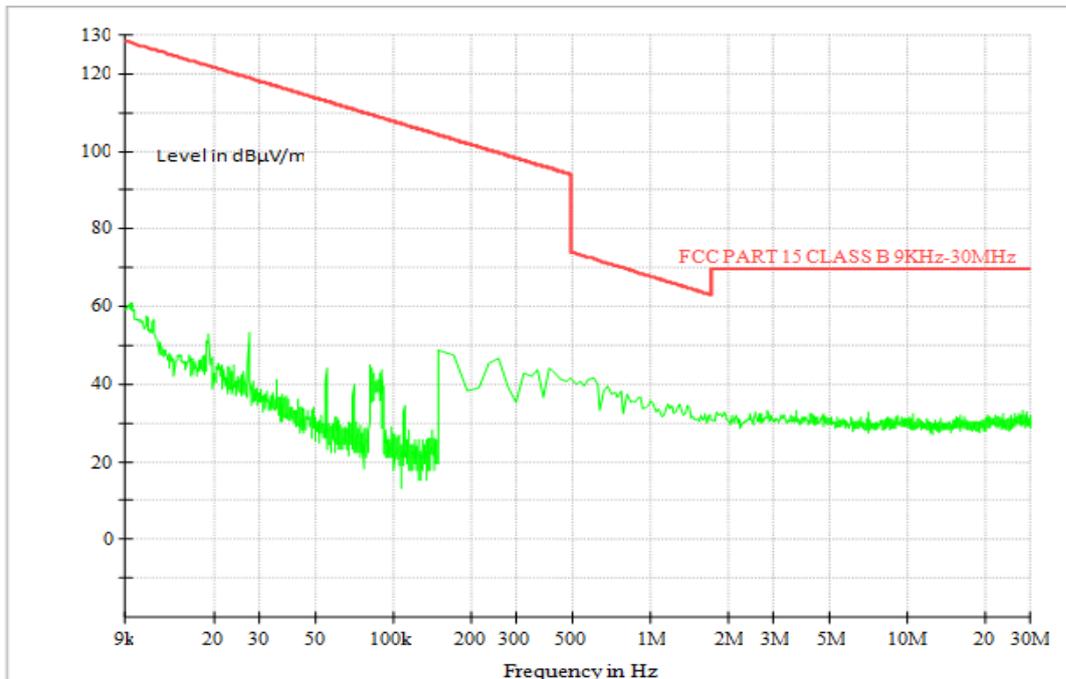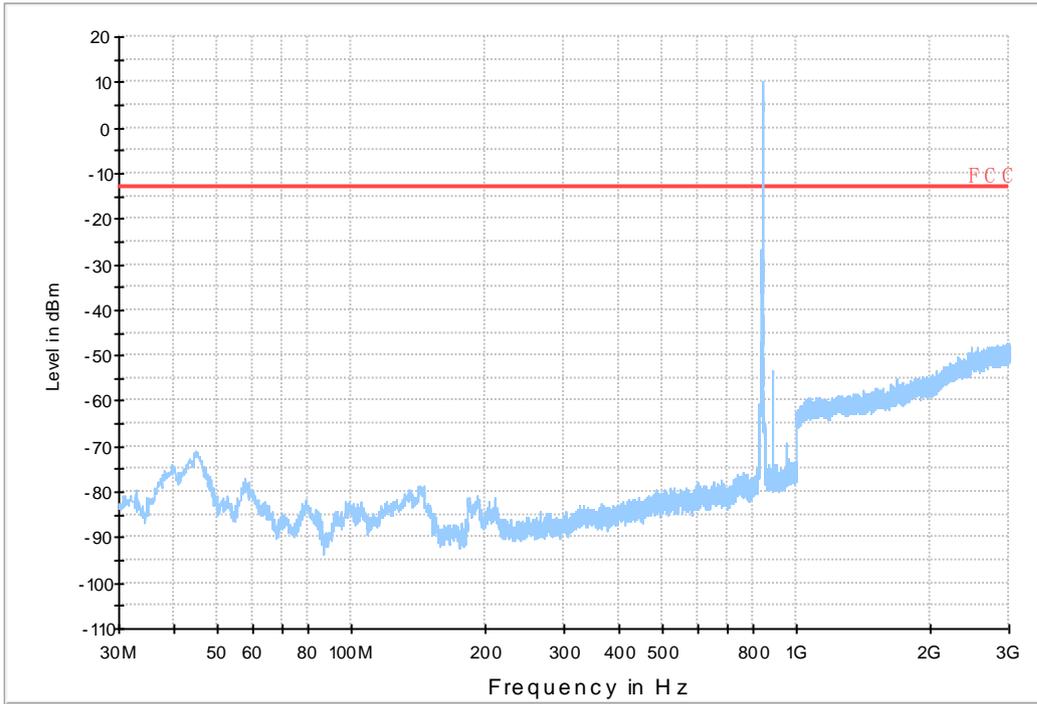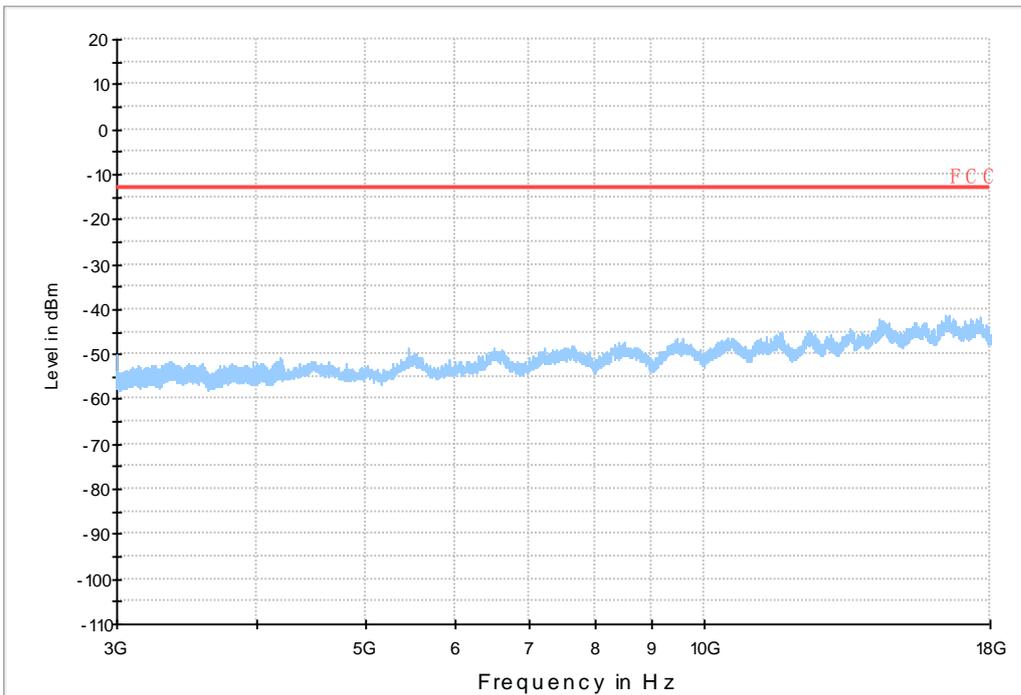| Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	LTE/TM1	1.4	LCH	TN	VL	-3.39	-0.00411	PASS
					VN	-0.24	-0.00029	PASS
					VH	0.60	0.00073	PASS
			MCH	TN	VL	3.56	0.00426	PASS
					VN	0.76	0.00091	PASS
					VH	-0.51	-0.00061	PASS
			HCH	TN	VL	-1.54	-0.00182	PASS
					VN	-2.40	-0.00283	PASS
					VH	1.36	0.0016	PASS
		3	LCH	TN	VL	2.19	0.00265	PASS
					VN	3.40	0.00412	PASS
					VH	0.41	0.0005	PASS
			MCH	TN	VL	2.22	0.00265	PASS
					VN	1.54	0.00184	PASS
					VH	-0.21	-0.00025	PASS
			HCH	TN	VL	0.06	0.00007	PASS
					VN	-0.30	-0.00035	PASS
					VH	-1.93	-0.00228	PASS
		5	LCH	TN	VL	-0.40	-0.00048	PASS
					VN	1.52	0.00184	PASS
					VH	0.11	0.00013	PASS
			MCH	TN	VL	0.07	0.00008	PASS
					VN	1.14	0.00136	PASS
					VH	1.72	0.00206	PASS
			HCH	TN	VL	-0.06	-0.00007	PASS
					VN	2.25	0.00266	PASS
					VH	1.42	0.00168	PASS
		10	LCH	TN	VL	-2.99	-0.00361	PASS
					VN	0.24	0.00029	PASS
					VH	-0.67	-0.00081	PASS
			MCH	TN	VL	1.32	0.00158	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	7.93	0.00948	PASS
					VH	-4.41	-0.00527	PASS
			HCH	TN	VL	-1.04	-0.00123	PASS
					VN	-3.03	-0.00359	PASS
					VH	-1.32	-0.00156	PASS
	LTE/TM2	1.4	LCH	TN	VL	-0.84	-0.00102	PASS
					VN	-0.76	-0.00092	PASS
					VH	-0.34	-0.00041	PASS
			MCH	TN	VL	1.36	0.00163	PASS
					VN	2.68	0.0032	PASS
					VH	0.59	0.00071	PASS
			HCH	TN	VL	1.17	0.00138	PASS
					VN	-0.17	-0.0002	PASS
					VH	0.34	0.0004	PASS
		3	LCH	TN	VL	0.64	0.00078	PASS
					VN	2.37	0.00287	PASS
					VH	3.81	0.00462	PASS
			MCH	TN	VL	2.82	0.00337	PASS
					VN	1.83	0.00219	PASS
					VH	-1.57	-0.00188	PASS
			HCH	TN	VL	0.37	0.00044	PASS
					VN	-1.27	-0.0015	PASS
					VH	-1.43	-0.00169	PASS
		5	LCH	TN	VL	-1.29	-0.00156	PASS
					VN	1.16	0.0014	PASS
					VH	-0.44	-0.00053	PASS
			MCH	TN	VL	1.66	0.00198	PASS
					VN	1.75	0.00209	PASS
					VH	0.44	0.00053	PASS
			HCH	TN	VL	-0.09	-0.00011	PASS
					VN	0.92	0.00109	PASS
					VH	-1.69	-0.002	PASS
		10	LCH	TN	VL	-0.69	-0.00083	PASS
					VN	0.09	0.00011	PASS
					VH	-1.10	-0.00133	PASS
			MCH	TN	VL	-4.75	-0.00568	PASS
					VN	-1.97	-0.00236	PASS
					VH	-2.42	-0.00289	PASS
			HCH	TN	VL	0.86	0.00102	PASS
					VN	-0.37	-0.00044	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VH	0.11	0.00013	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	-0.59	-0.00071	PASS
					-20	1.25	0.00152	PASS
					-10	-6.08	-0.00738	PASS
					0	-1.87	-0.00226	PASS
					10	-2.09	-0.00253	PASS
					20	-1.96	-0.00237	PASS
					30	-4.71	-0.00571	PASS
					40	-6.36	-0.00772	PASS
					50	7.44	0.00902	PASS
			MCH	VN	-30	4.21	0.00503	PASS
					-20	-15.47	-0.01850	PASS
					-10	-14.40	-0.01722	PASS
					0	16.49	0.01971	PASS
					10	10.38	0.01241	PASS
					20	-12.51	-0.01496	PASS
					30	-1.58	-0.00188	PASS
					40	-17.08	-0.02041	PASS
					50	-16.82	-0.02010	PASS
			HCH	VN	-30	5.81	0.00685	PASS
					-20	1.83	0.00216	PASS
					-10	2.26	0.00266	PASS
					0	9.13	0.01077	PASS
					10	-5.43	-0.00640	PASS
					20	17.72	0.02089	PASS
					30	-14.38	-0.01696	PASS
					40	-13.32	-0.01571	PASS
					50	-18.34	-0.02162	PASS
		3	LCH	VN	-30	-5.15	-0.00624	PASS
					-20	18.38	0.02226	PASS
					-10	-13.23	-0.01603	PASS
					0	-14.49	-0.01755	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-17.79	-0.02155	PASS
					20	-11.99	-0.01452	PASS
					30	-19.95	-0.02416	PASS
					40	2.44	0.00295	PASS
					50	12.74	0.01543	PASS
			MCH	VN	-30	-4.68	-0.00560	PASS
					-20	17.84	0.02132	PASS
					-10	13.61	0.01627	PASS
					0	15.10	0.01806	PASS
					10	11.17	0.01335	PASS
					20	8.34	0.00997	PASS
					30	6.11	0.00730	PASS
					40	1.83	0.00219	PASS
					50	-4.72	-0.00564	PASS
			HCH	VN	-30	1.50	0.00177	PASS
					-20	1.84	0.00217	PASS
					-10	-18.47	-0.02179	PASS
					0	9.24	0.01091	PASS
					10	5.01	0.00591	PASS
					20	-2.57	-0.00304	PASS
					30	-12.00	-0.01416	PASS
					40	16.13	0.01903	PASS
					50	7.85	0.00926	PASS
		5	LCH	VN	-30	16.27	0.01968	PASS
					-20	7.60	0.00920	PASS
					-10	15.19	0.01838	PASS
					0	8.13	0.00983	PASS
					10	4.17	0.00505	PASS
					20	-1.03	-0.00125	PASS
					30	3.17	0.00383	PASS
					40	9.94	0.01202	PASS
					50	6.21	0.00752	PASS
			MCH	VN	-30	-5.97	-0.00714	PASS
					-20	7.10	0.00849	PASS
					-10	-14.38	-0.01719	PASS
					0	-19.63	-0.02346	PASS
					10	-19.45	-0.02325	PASS
					20	-13.85	-0.01656	PASS
					30	0.20	0.00024	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-17.56	-0.02099	PASS
					50	-1.67	-0.00200	PASS
			HCH	VN	-30	18.85	0.02226	PASS
					-20	7.93	0.00936	PASS
					-10	-4.86	-0.00574	PASS
					0	1.46	0.00172	PASS
					10	6.80	0.00804	PASS
					20	-9.27	-0.01095	PASS
					30	-4.04	-0.00477	PASS
					40	-12.92	-0.01526	PASS
					50	-12.01	-0.01419	PASS
			LCH	VN	-30	6.51	0.00785	PASS
					-20	9.73	0.01174	PASS
					-10	-13.87	-0.01673	PASS
					0	1.09	0.00131	PASS
					10	-12.20	-0.01472	PASS
					20	0.97	0.00117	PASS
					30	-4.67	-0.00563	PASS
					40	-8.35	-0.01007	PASS
					50	-1.60	-0.00193	PASS
			MCH	VN	-30	-16.32	-0.01951	PASS
					-20	11.22	0.01341	PASS
					-10	1.44	0.00172	PASS
					0	13.70	0.01637	PASS
		10			10	-6.46	-0.00772	PASS
					20	1.37	0.00164	PASS
					30	10.19	0.01219	PASS
					40	-4.67	-0.00558	PASS
					50	2.83	0.00338	PASS
			HCH	VN	-30	11.79	0.01396	PASS
					-20	7.35	0.00871	PASS
					-10	13.12	0.01554	PASS
					0	13.94	0.01652	PASS
					10	-15.08	-0.01787	PASS
					20	11.92	0.01413	PASS
					30	-12.29	-0.01456	PASS
					40	5.65	0.00670	PASS
					50	-13.68	-0.01620	PASS
	LTE/TM2	1.4	LCH	VN	-30	-1.48	-0.00179	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-16.54	-0.02006	PASS
					-10	19.91	0.02415	PASS
					0	16.33	0.01980	PASS
					10	13.80	0.01673	PASS
					20	12.63	0.01532	PASS
					30	-1.99	-0.00242	PASS
					40	19.63	0.02381	PASS
					50	0.12	0.00014	PASS
			MCH	VN	-30	-9.02	-0.01078	PASS
					-20	-2.45	-0.00292	PASS
					-10	19.65	0.02349	PASS
					0	17.27	0.02064	PASS
					10	-17.33	-0.02072	PASS
					20	7.73	0.00925	PASS
					30	-11.42	-0.01365	PASS
					40	1.15	0.00138	PASS
					50	-15.02	-0.01795	PASS
			HCH	VN	-30	11.94	0.01408	PASS
					-20	-6.21	-0.00732	PASS
					-10	5.28	0.00622	PASS
					0	-12.43	-0.01465	PASS
					10	4.35	0.00512	PASS
					20	-7.89	-0.00930	PASS
					30	9.98	0.01177	PASS
					40	-17.23	-0.02032	PASS
					50	-14.65	-0.01728	PASS
		3	LCH	VN	-30	12.10	0.01466	PASS
					-20	-6.15	-0.00745	PASS
					-10	-7.57	-0.00917	PASS
					0	-18.41	-0.02230	PASS
					10	9.41	0.01139	PASS
					20	9.79	0.01186	PASS
					30	11.39	0.01380	PASS
					40	17.94	0.02174	PASS
					50	11.03	0.01336	PASS
			MCH	VN	-30	-5.32	-0.00636	PASS
					-20	7.33	0.00876	PASS
					-10	8.95	0.01070	PASS
					0	9.18	0.01097	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-12.58	-0.01503	PASS
					20	3.65	0.00437	PASS
					30	12.72	0.01521	PASS
					40	6.12	0.00732	PASS
					50	-9.17	-0.01096	PASS
			HCH	VN	-30	8.60	0.01015	PASS
					-20	-17.09	-0.02016	PASS
					-10	6.95	0.00820	PASS
					0	-5.67	-0.00669	PASS
					10	-3.94	-0.00465	PASS
					20	16.85	0.01988	PASS
					30	7.71	0.00909	PASS
					40	1.42	0.00167	PASS
					50	11.39	0.01344	PASS
		5	LCH	VN	-30	-13.03	-0.01577	PASS
					-20	5.57	0.00674	PASS
					-10	0.21	0.00025	PASS
					0	-16.45	-0.01990	PASS
					10	4.14	0.00501	PASS
					20	14.17	0.01715	PASS
					30	10.88	0.01316	PASS
					40	16.62	0.02011	PASS
					50	-18.09	-0.02189	PASS
			MCH	VN	-30	-6.03	-0.00721	PASS
					-20	1.91	0.00228	PASS
					-10	-9.44	-0.01128	PASS
					0	-6.50	-0.00777	PASS
					10	1.18	0.00142	PASS
					20	4.83	0.00578	PASS
					30	-1.73	-0.00207	PASS
					40	-6.01	-0.00718	PASS
					50	-19.77	-0.02363	PASS
			HCH	VN	-30	-9.87	-0.01166	PASS
					-20	1.86	0.00220	PASS
					-10	-0.11	-0.00013	PASS
					0	16.53	0.01953	PASS
					10	10.16	0.01200	PASS
					20	18.93	0.02236	PASS
					30	-10.26	-0.01212	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	16.81	0.01986	PASS
					50	-10.09	-0.01192	PASS
					-30	18.41	0.02220	PASS
					-20	-14.35	-0.01731	PASS
					-10	-5.57	-0.00672	PASS
					0	1.14	0.00137	PASS
			LCH	VN	10	10.81	0.01304	PASS
					20	2.22	0.00268	PASS
					30	6.45	0.00777	PASS
					40	1.69	0.00203	PASS
					50	11.29	0.01362	PASS
					-30	16.12	0.01927	PASS
					-20	-10.02	-0.01197	PASS
					-10	-2.27	-0.00271	PASS
					0	16.92	0.02023	PASS
		10	MCH	VN	10	-19.71	-0.02357	PASS
					20	7.33	0.00876	PASS
					30	-16.40	-0.01961	PASS
					40	-11.17	-0.01335	PASS
					50	11.68	0.01397	PASS
					-30	2.71	0.00321	PASS
					-20	19.81	0.02347	PASS
					-10	-9.90	-0.01173	PASS
					0	0.34	0.00040	PASS
			HCH	VN	10	5.94	0.00704	PASS
					20	7.76	0.00919	PASS
					30	11.32	0.01342	PASS
					40	15.60	0.01848	PASS
					50	-4.43	-0.00525	PASS

END