



Annex A: DTS (6 dB) Bandwidth



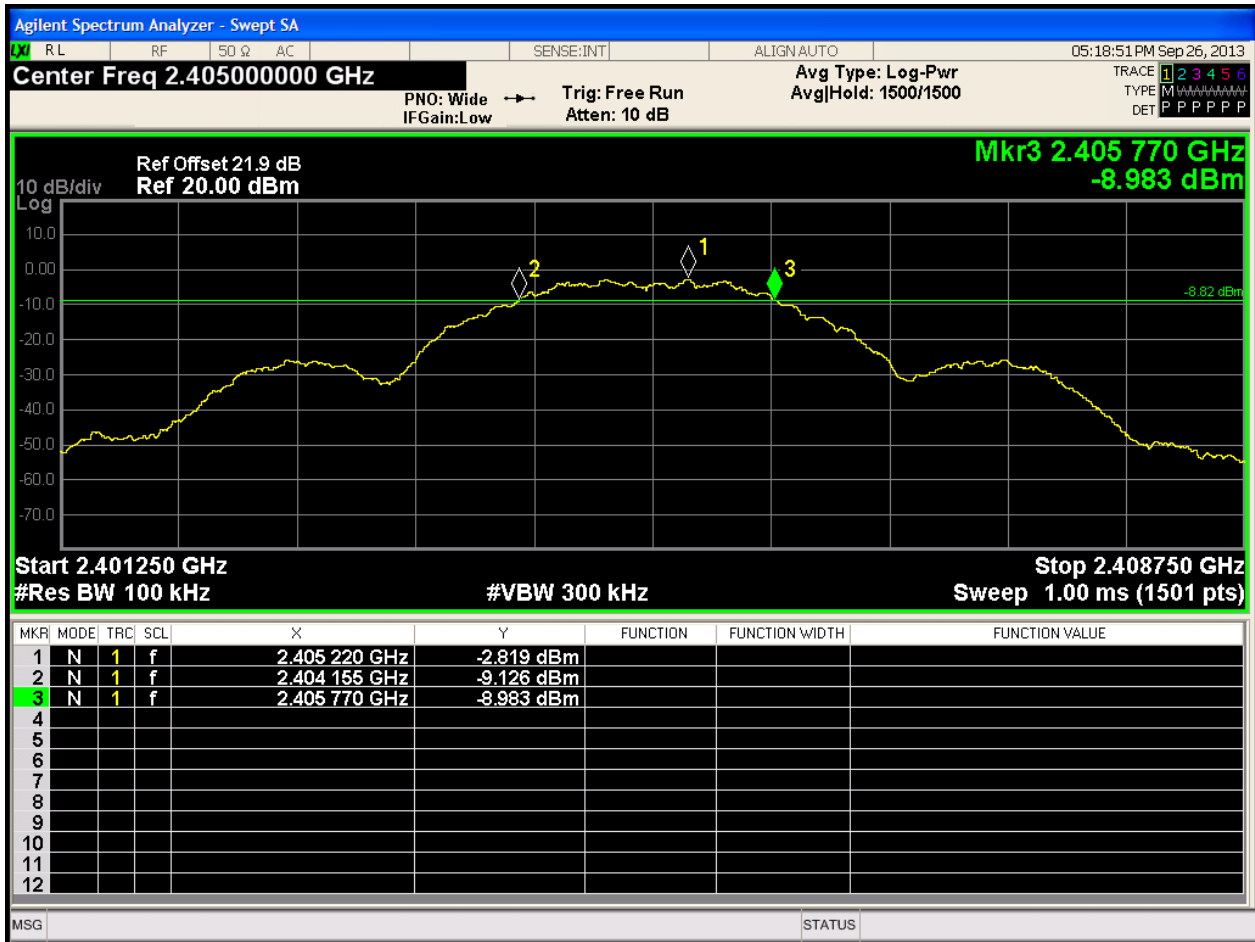
1 Result Table

EUT Conf.	DTS (6 dB) Bandwidth [MHz]	Verdict
TX-B	1.615	Pass
TX-M	1.655	Pass
TX-T	1.62	Pass

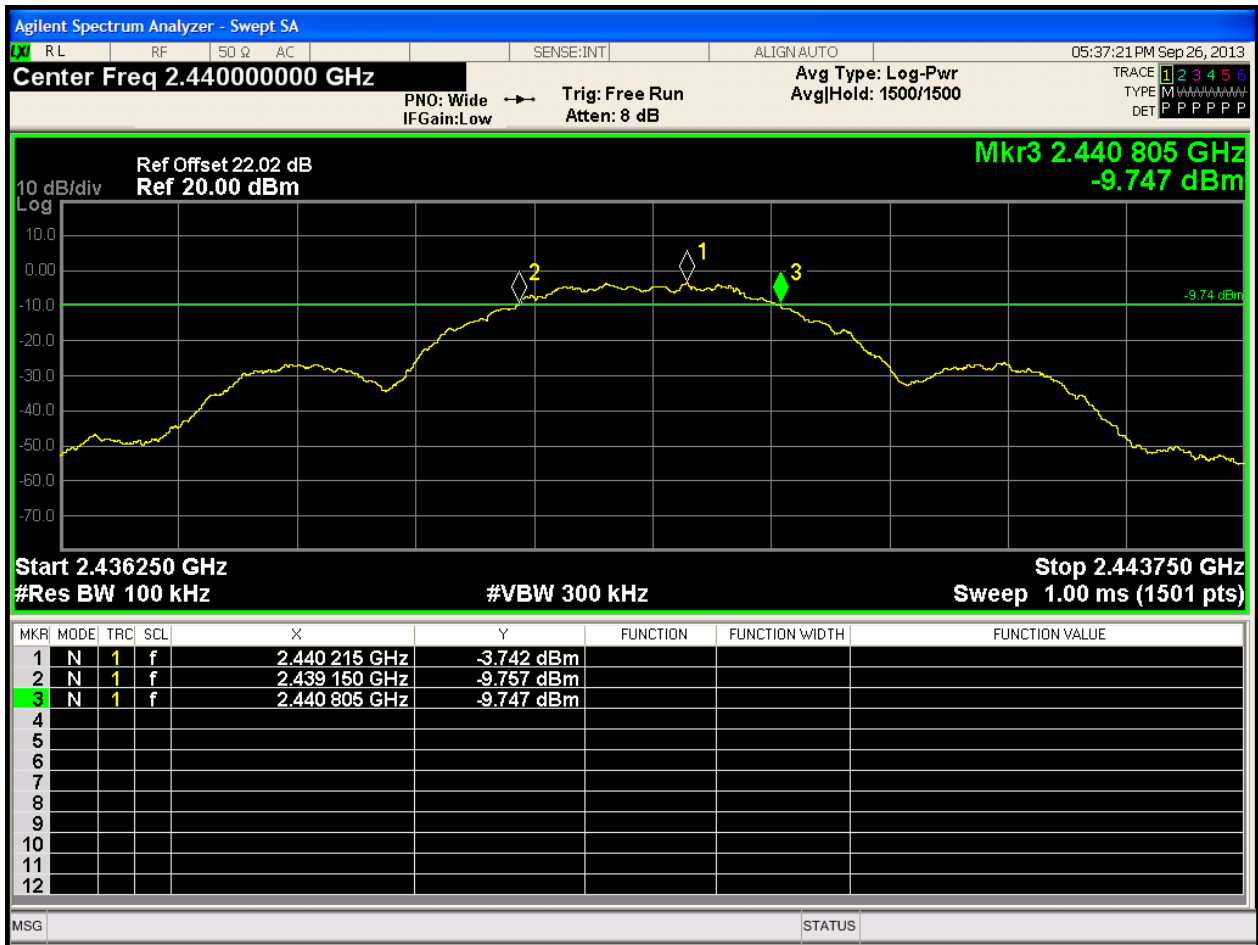


2 Test Plot

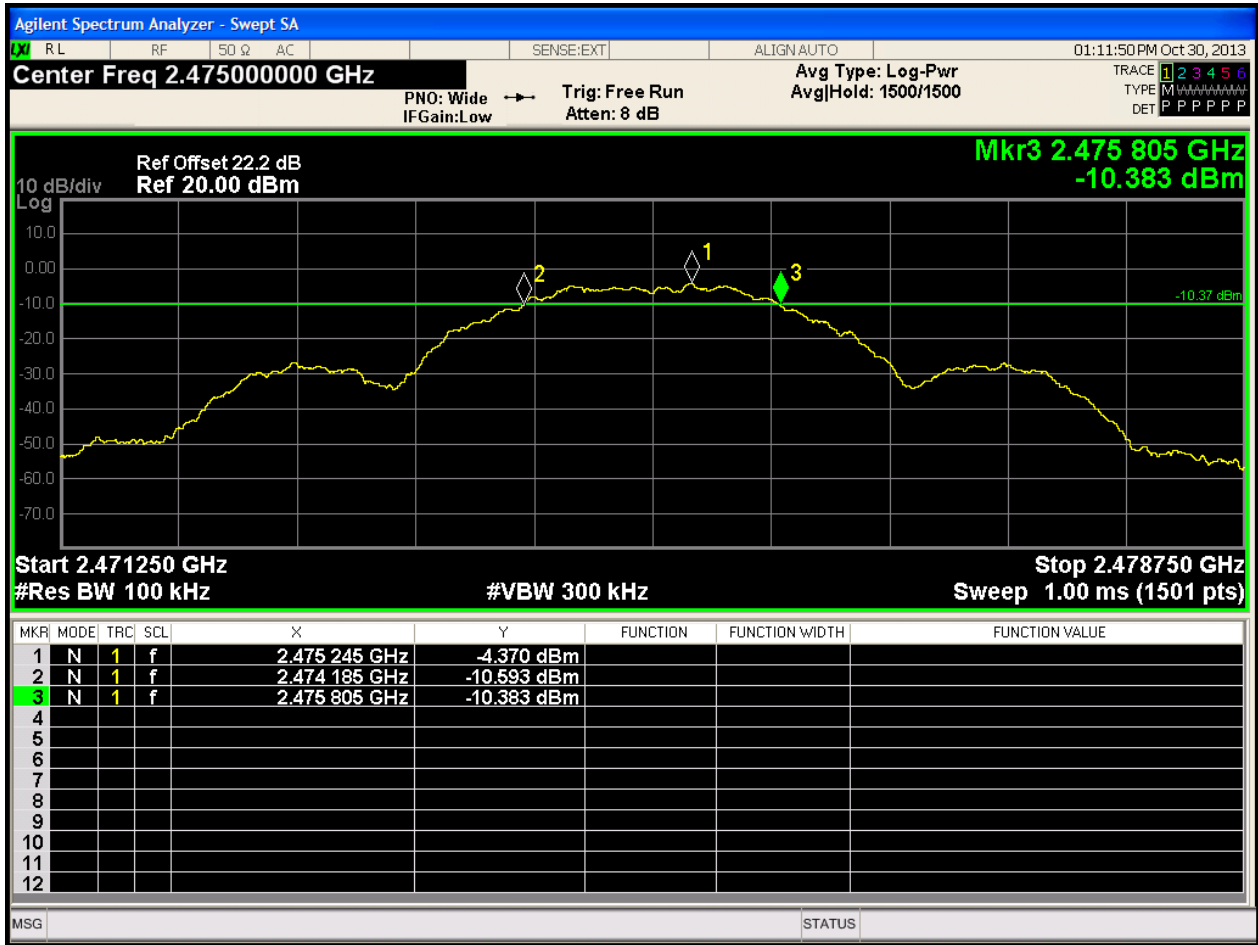
2.1 TX-B



2.2 TX-M



2.3 TX-T





Annex B: Occupied Bandwidth



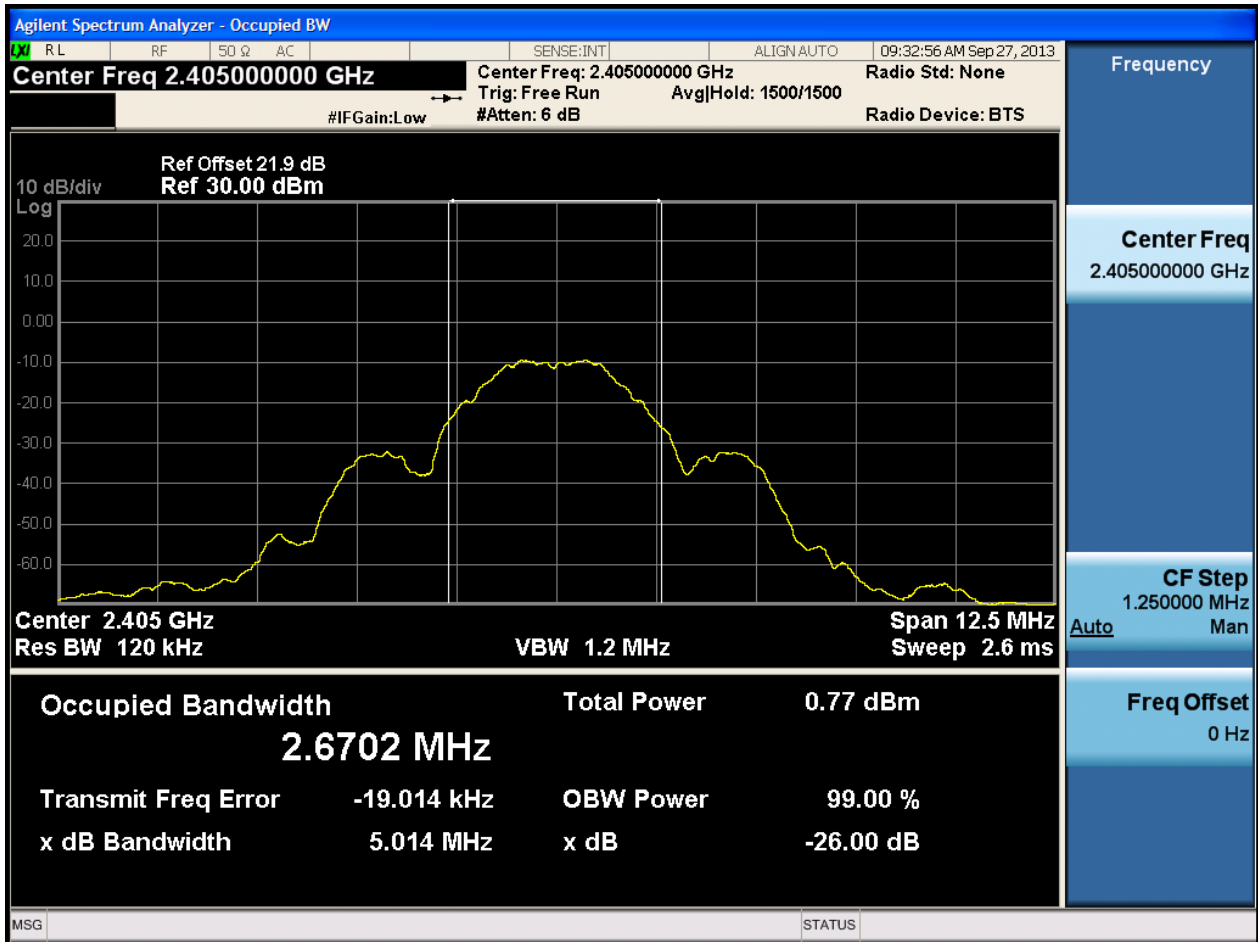
1 Result Table

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
TX-B	2.67019	Pass
TX-M	2.65497	Pass
TX-T	2.6345	Pass

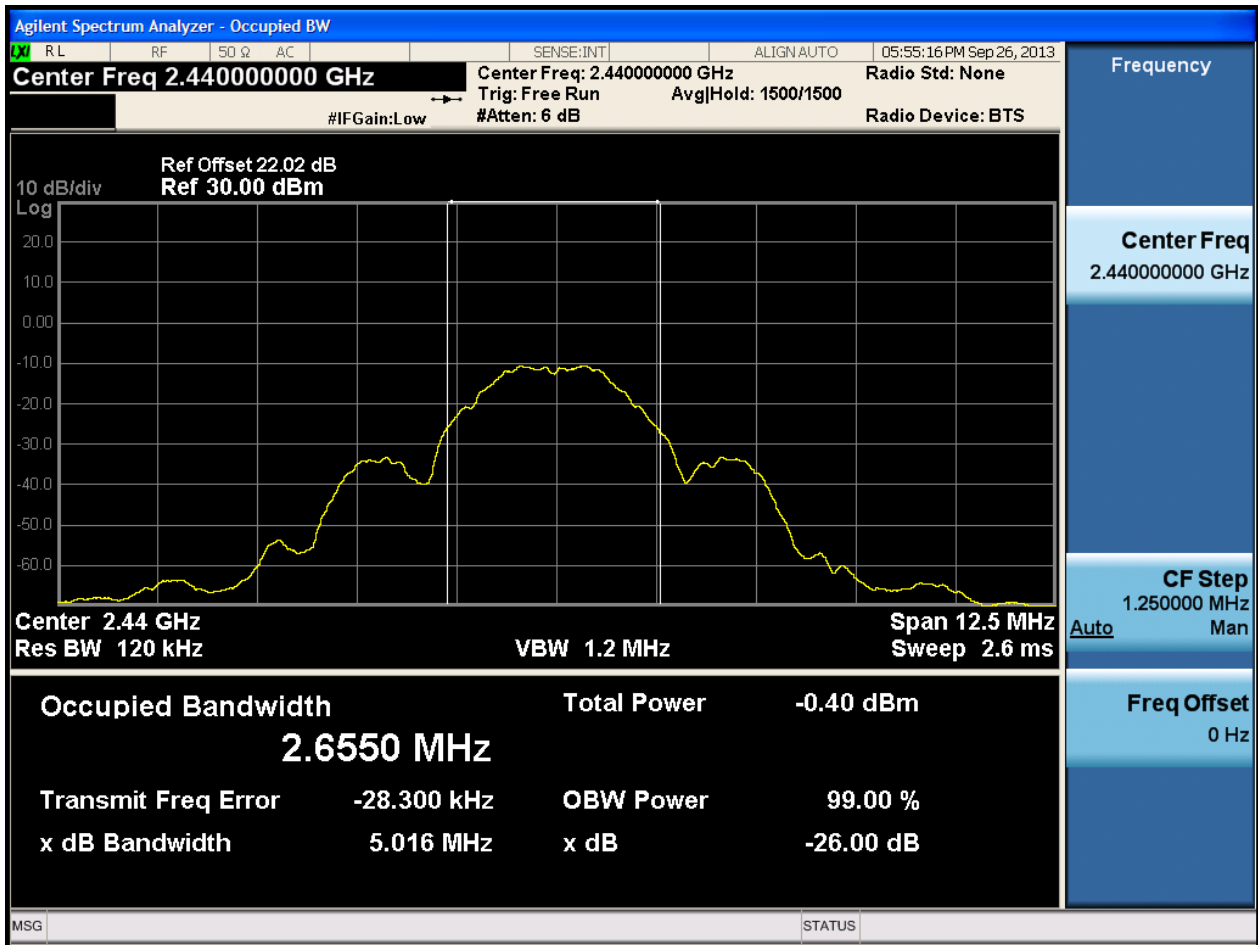


2 Test Plot

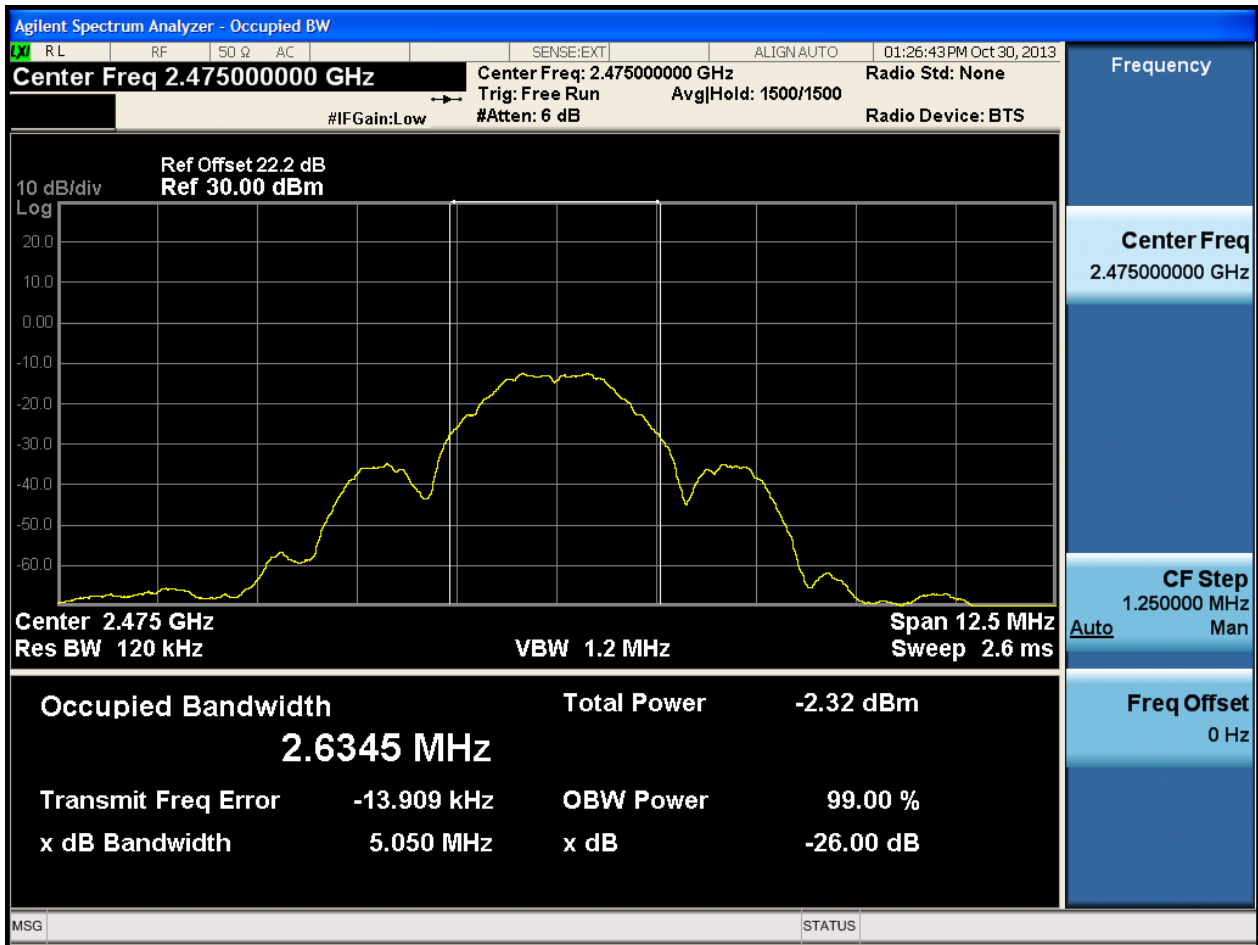
2.1 TX-B



2.2 TX-M



2.3 TX-T





Annex C: Maximum Peak Conducted Output Power

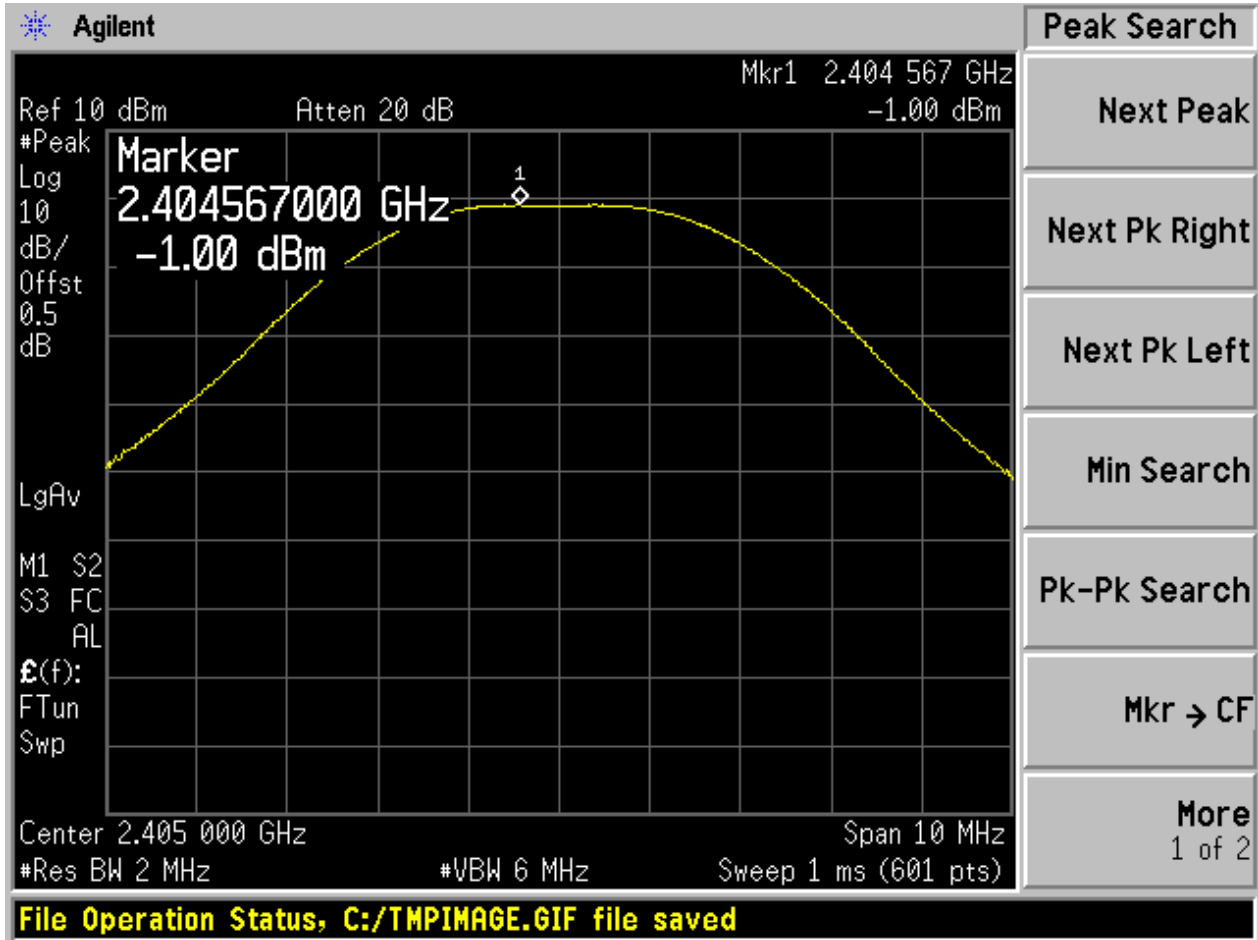


1 Result Table

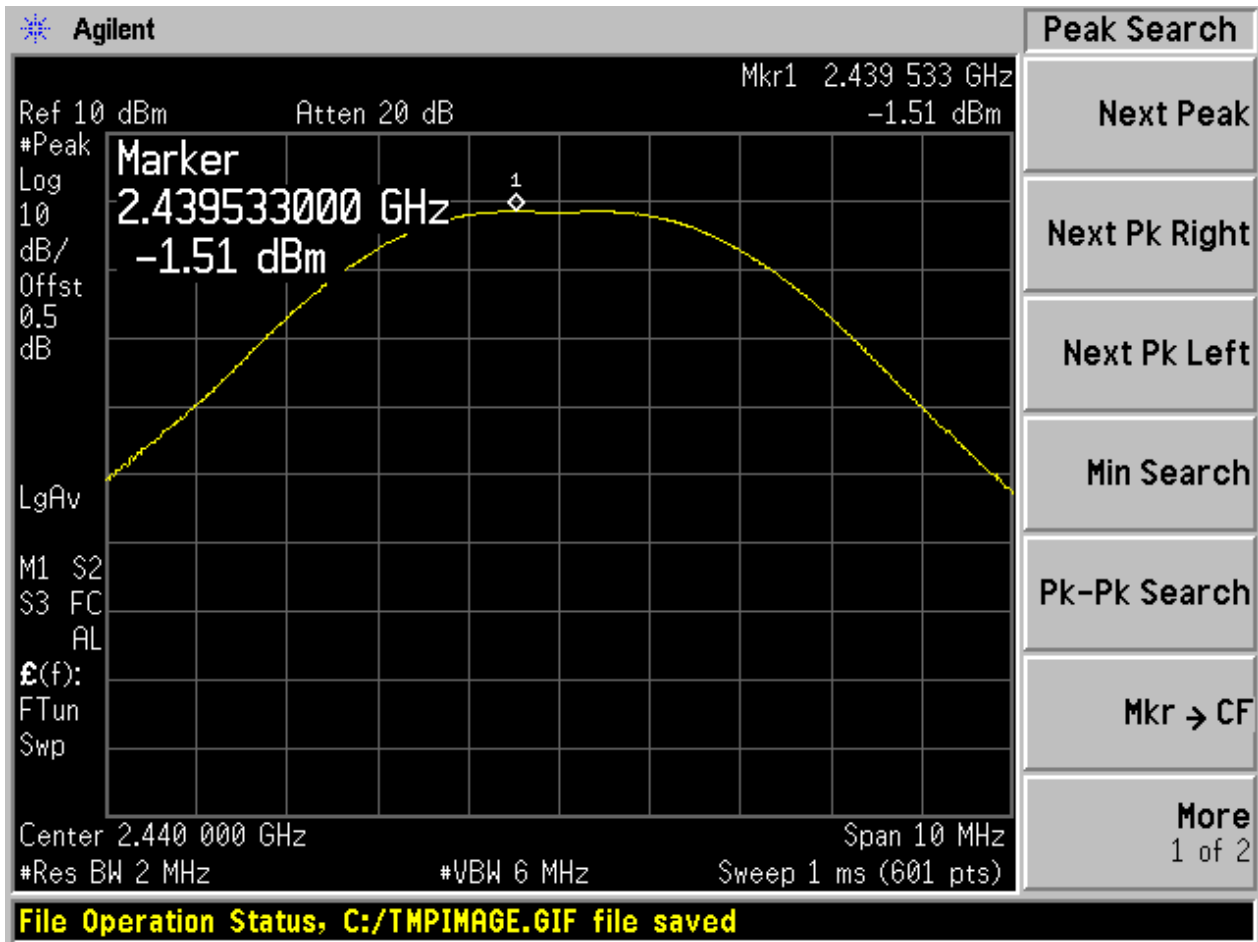
EUT Conf.	Maximum Peak Conducted Output Power [dBm]	Verdict
TX-B	-1.00	Pass
TX-M	-1.51	Pass
TX-T	-2.13	Pass

2 Test Plot

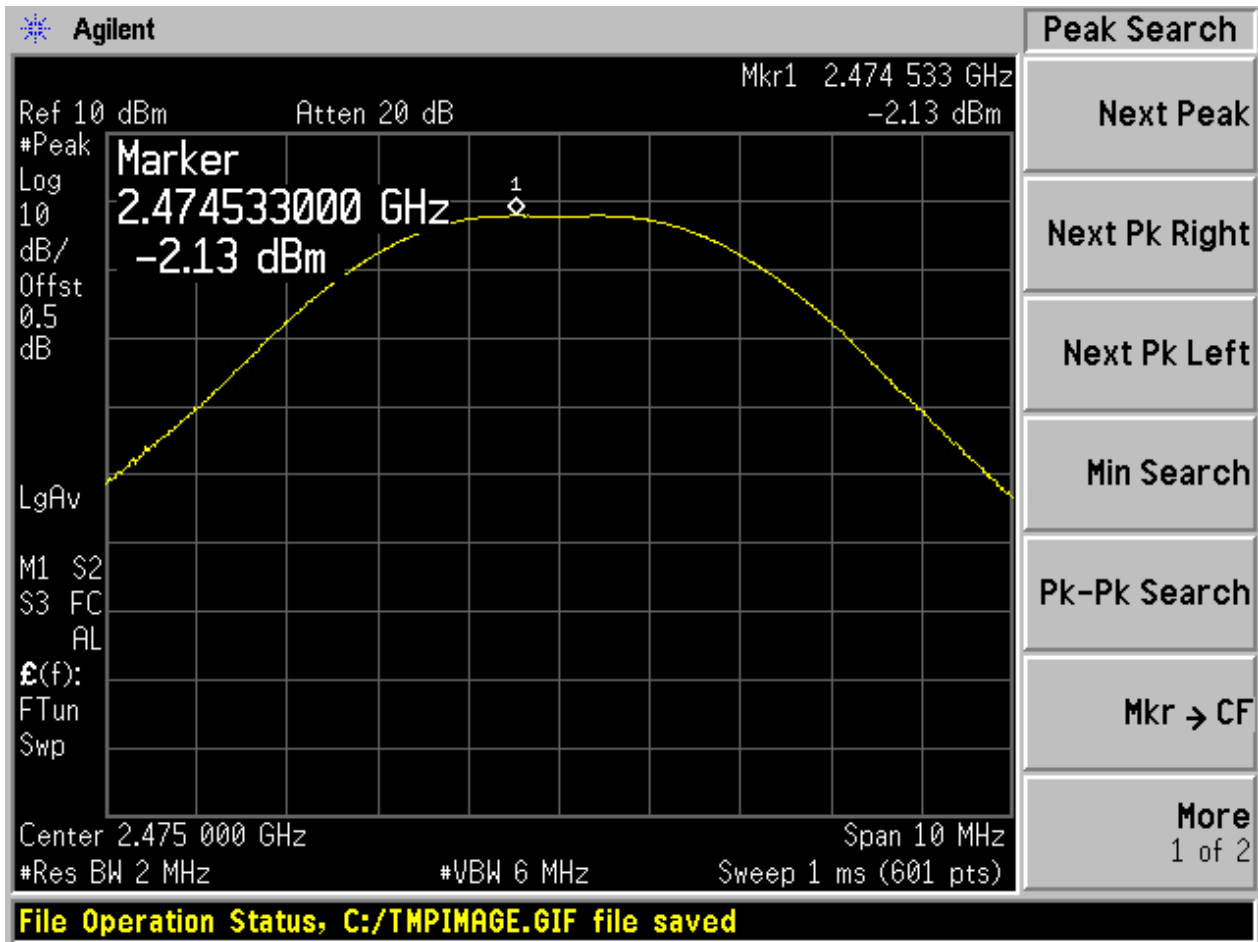
2.1 TX-B



2.2 TX-M



2.3 TX-T





Annex D: Maximum Power Spectral Density Level



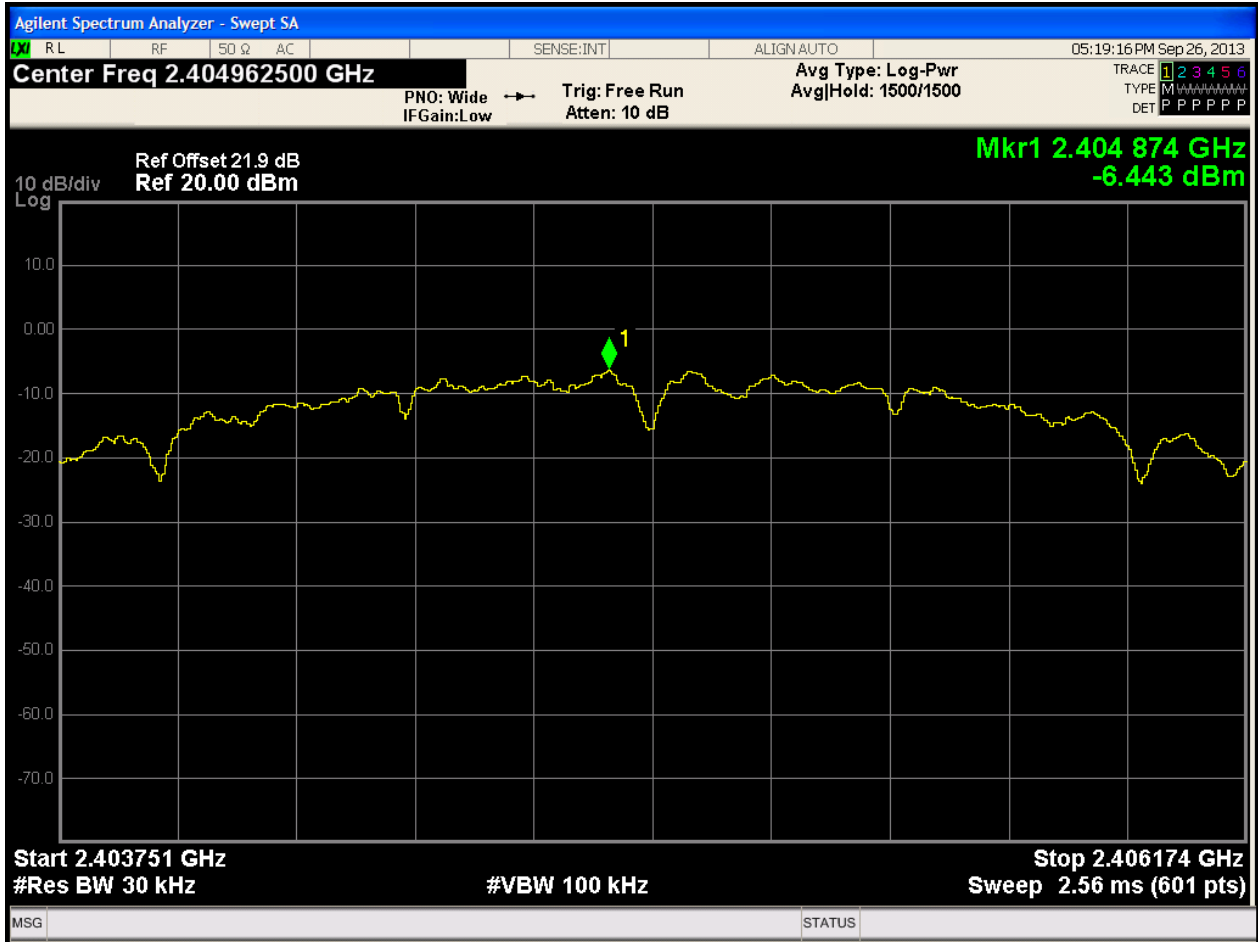
1 Result Table

EUT Conf.	Maximum Power Spectral Density Level [dBm]	Verdict
TX-B	-6.44	Pass
TX-M	-6.94	Pass
TX-T	-8.06	Pass

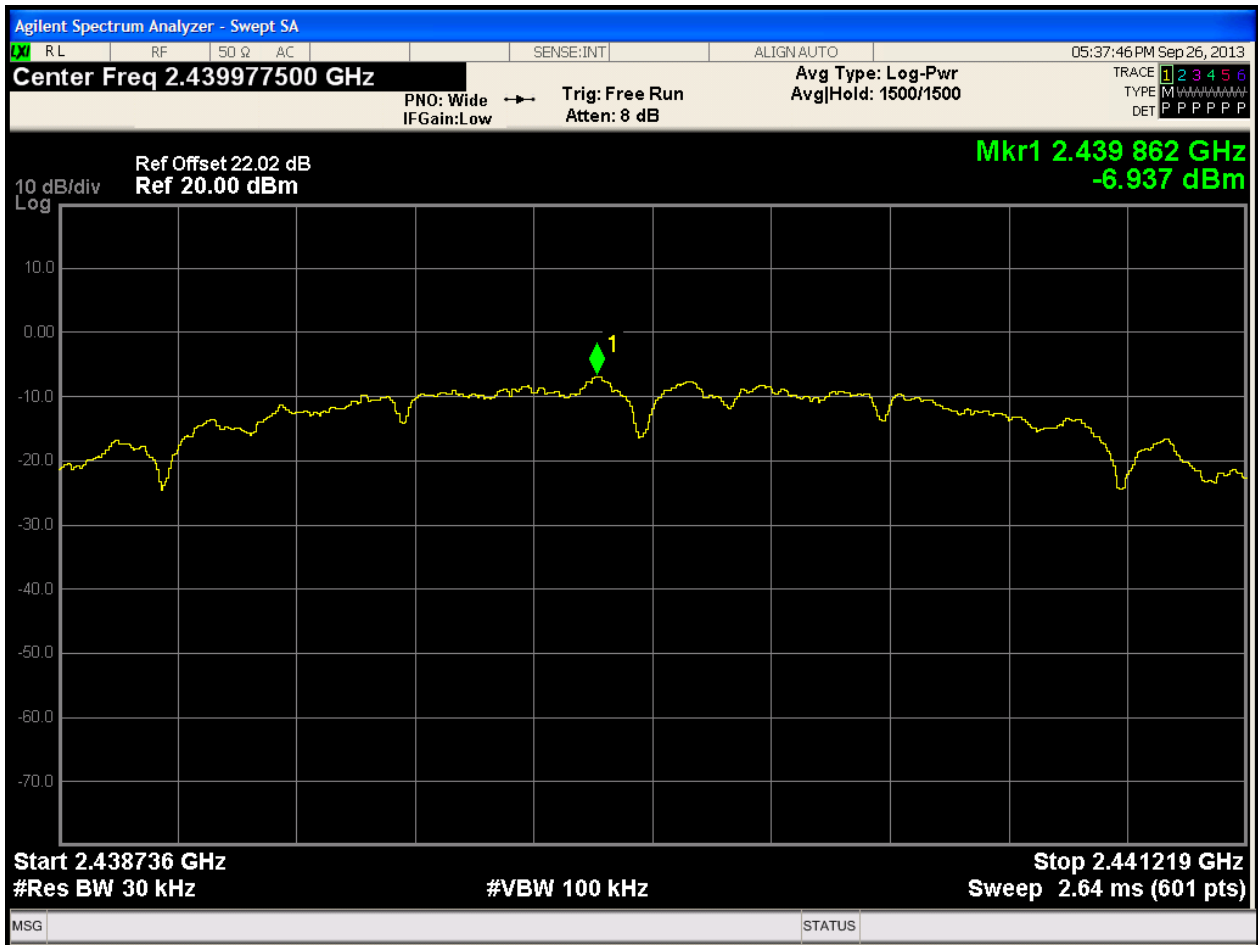


2 Test Plot

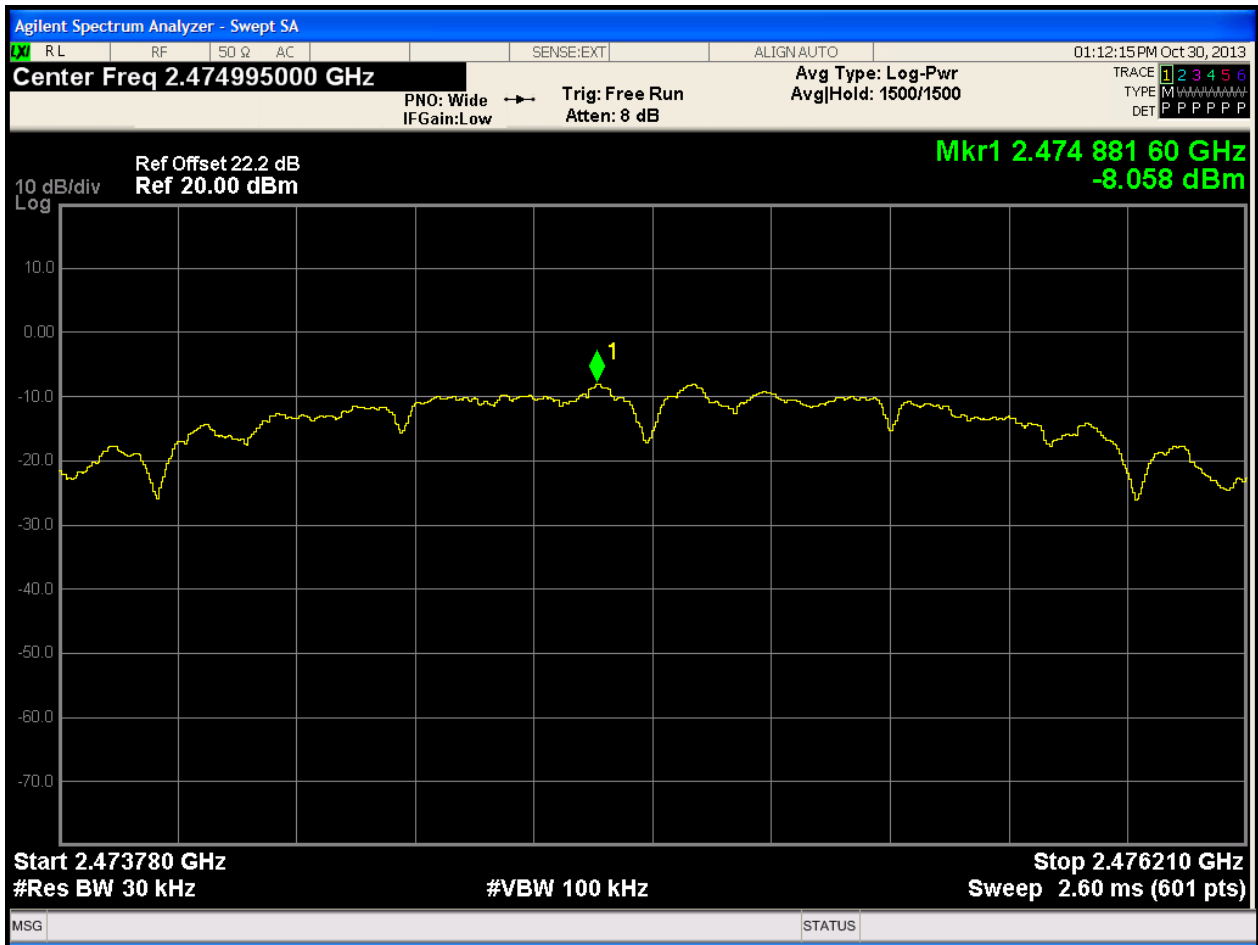
2.1 TX-B



2.2 TX-M



2.3 TX-T





Annex E: Unwanted Emissions into Non-Restricted Frequency Bands

In this Annex, the “Pref”, which is used as the reference level, refers to the peak power level in any 100 kHz bandwidth within the fundamental emission, the “Puw” refers to the maximum emission power in 100 kHz band segments outside of the authorized frequency band.

Considering that the higher ratio of RBW to the span for the frequency ranges below 30 MHz makes the results determination be complicated, a narrower RBW other than 100 kHz is used for these ranges. The measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \times \lg(100 [kHz]/\text{narrower RBW} [kHz])$. As to this Annex, the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

In the result table, the “< Limit” denotes that “The Puw [dBm] is less than Pref [dBm] – 20 [dB], see test plots for detailed”.

1 Result Table

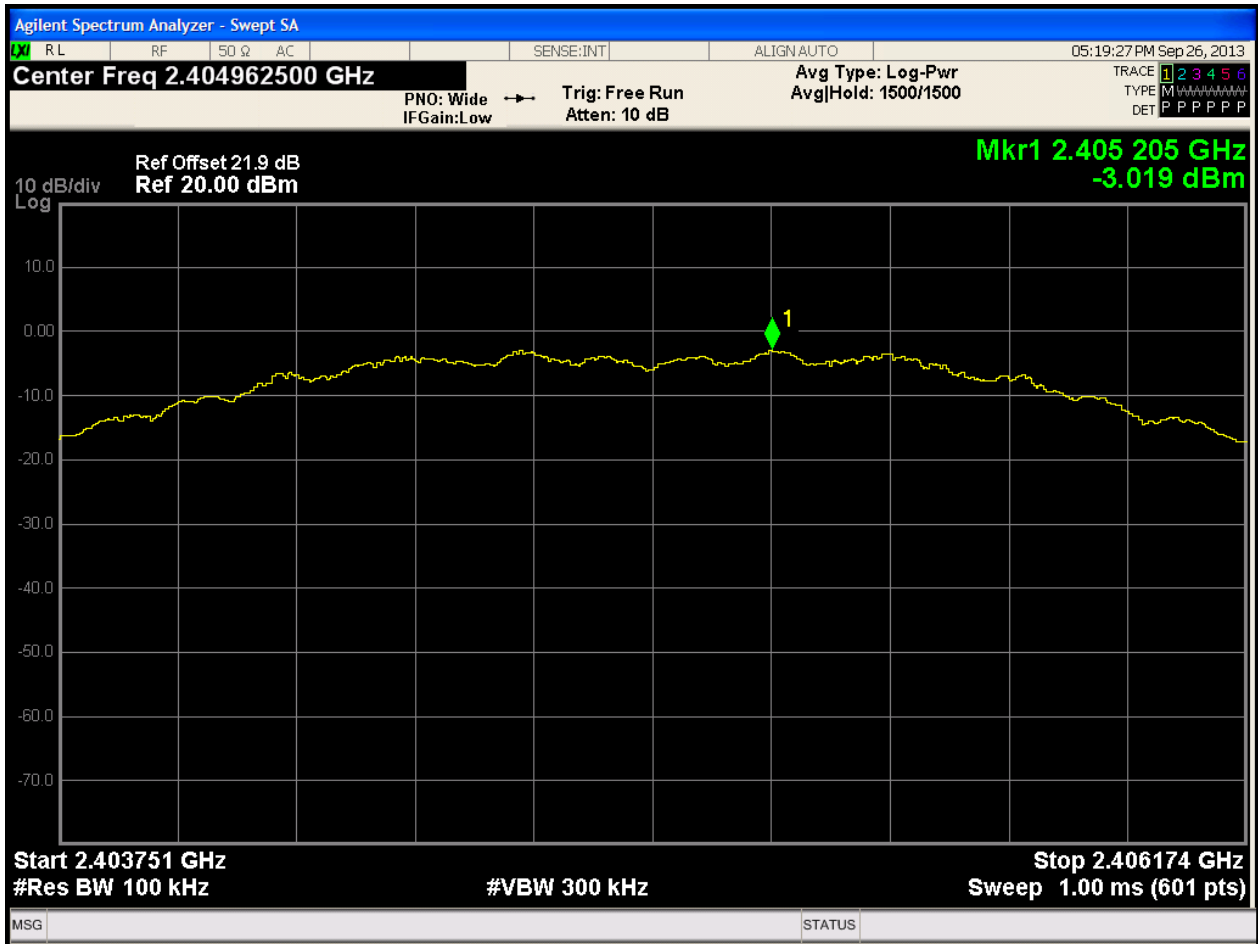
EUT Conf.	Pref [dBm]	Puw [dBm]	Verdict
TX-B	-3.02	< Limit	Pass
TX-M	-3.65	< Limit	Pass
TX-T	-4.41	< Limit	Pass



2 Test Plot

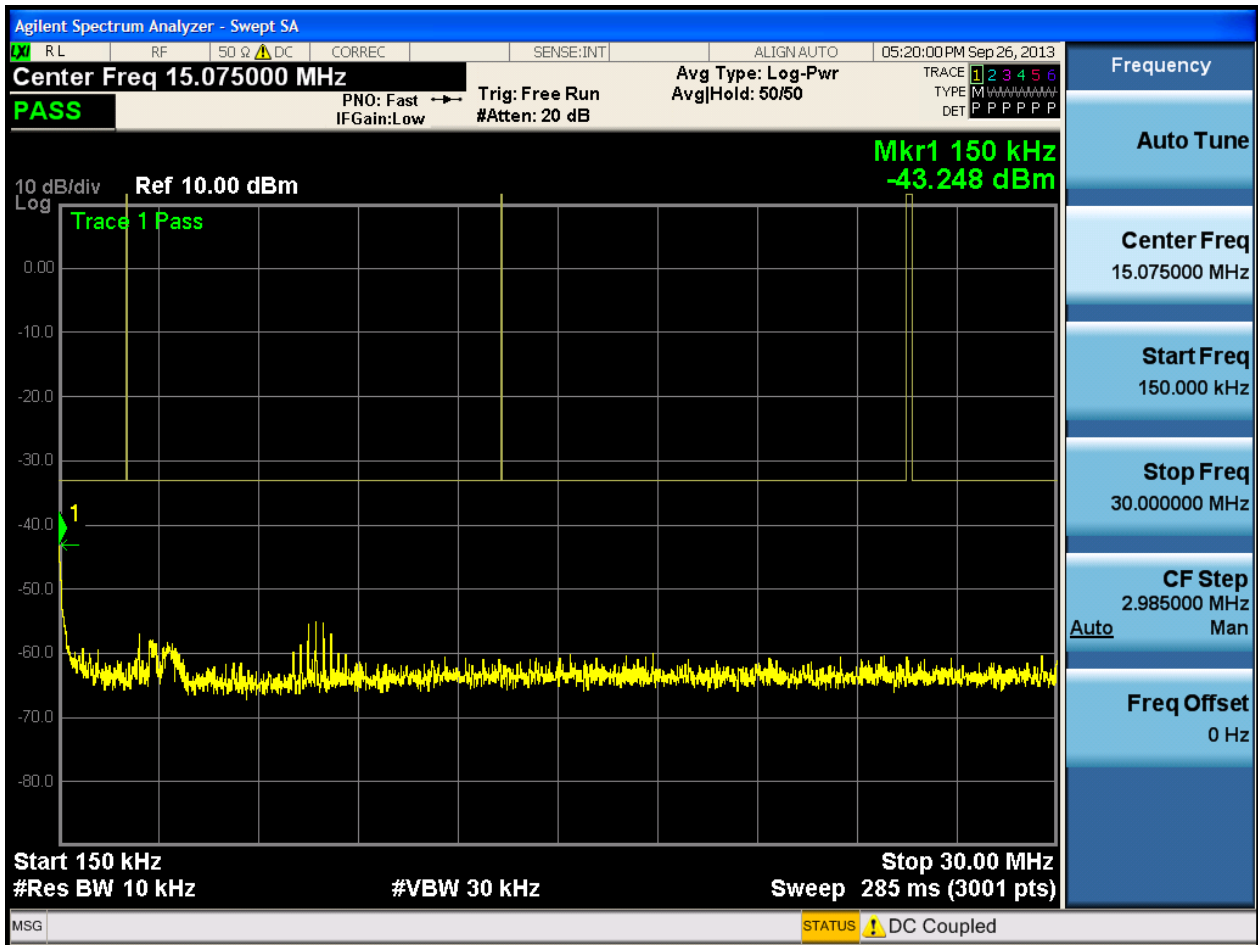
2.1 TX-B

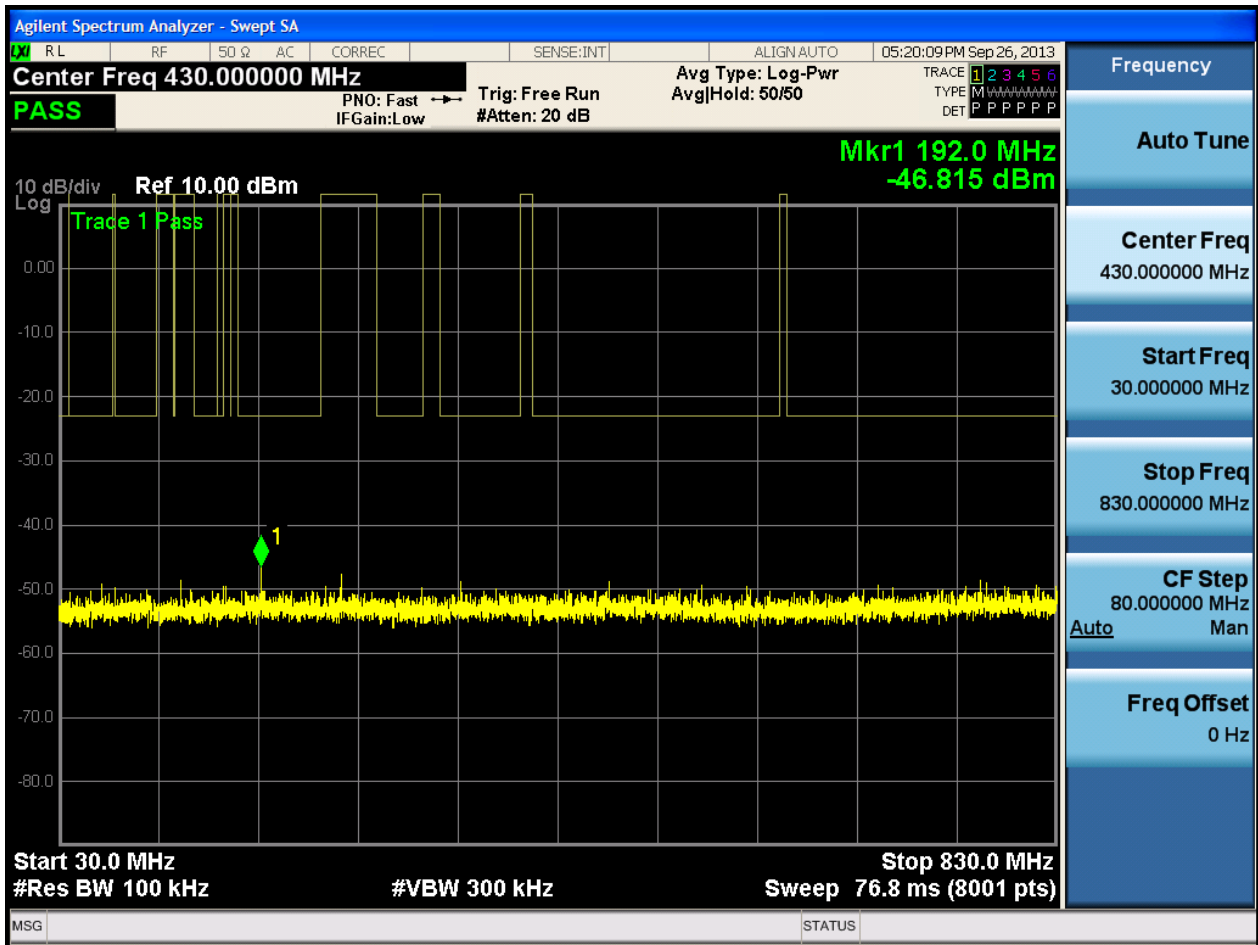
2.1.1 Pref

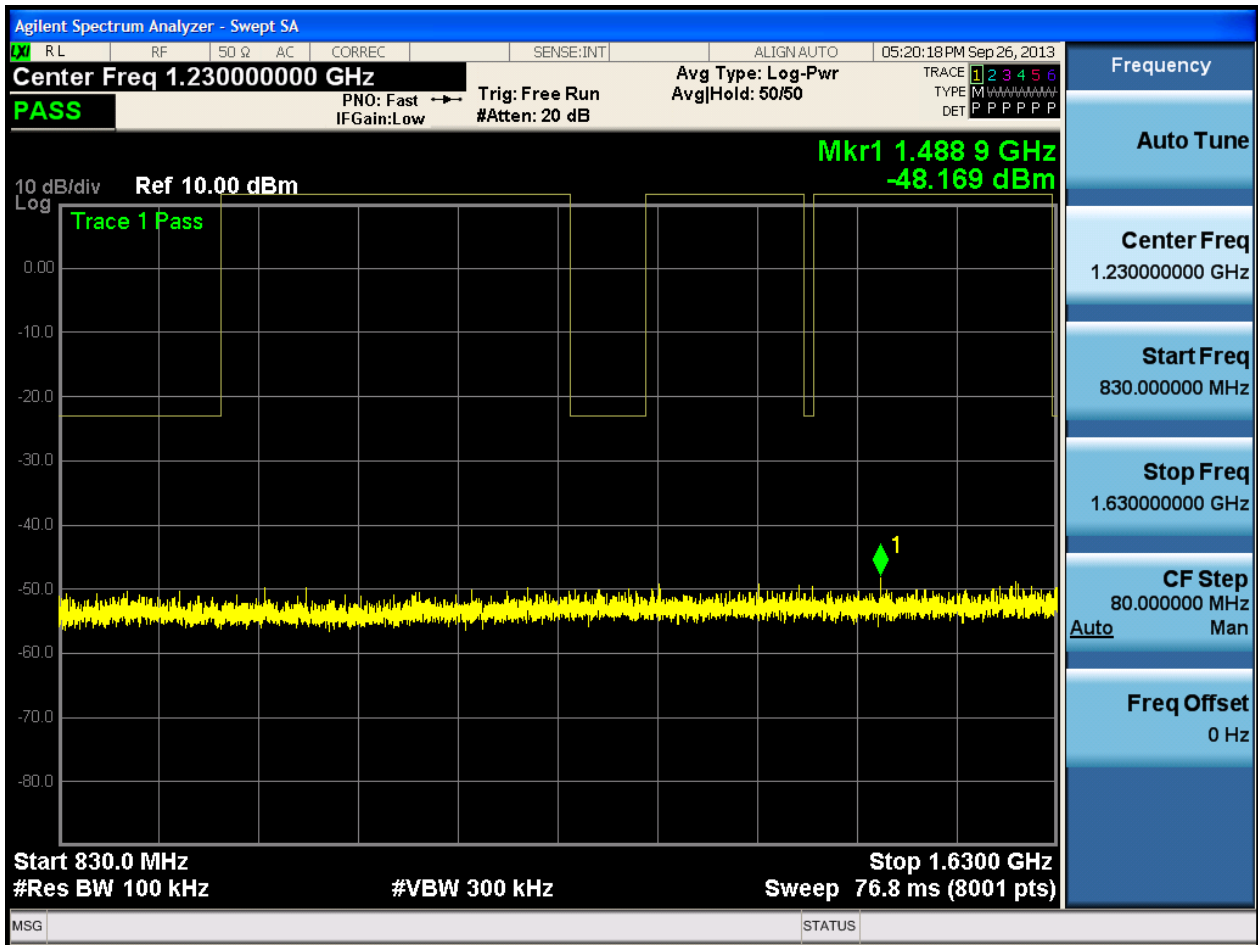


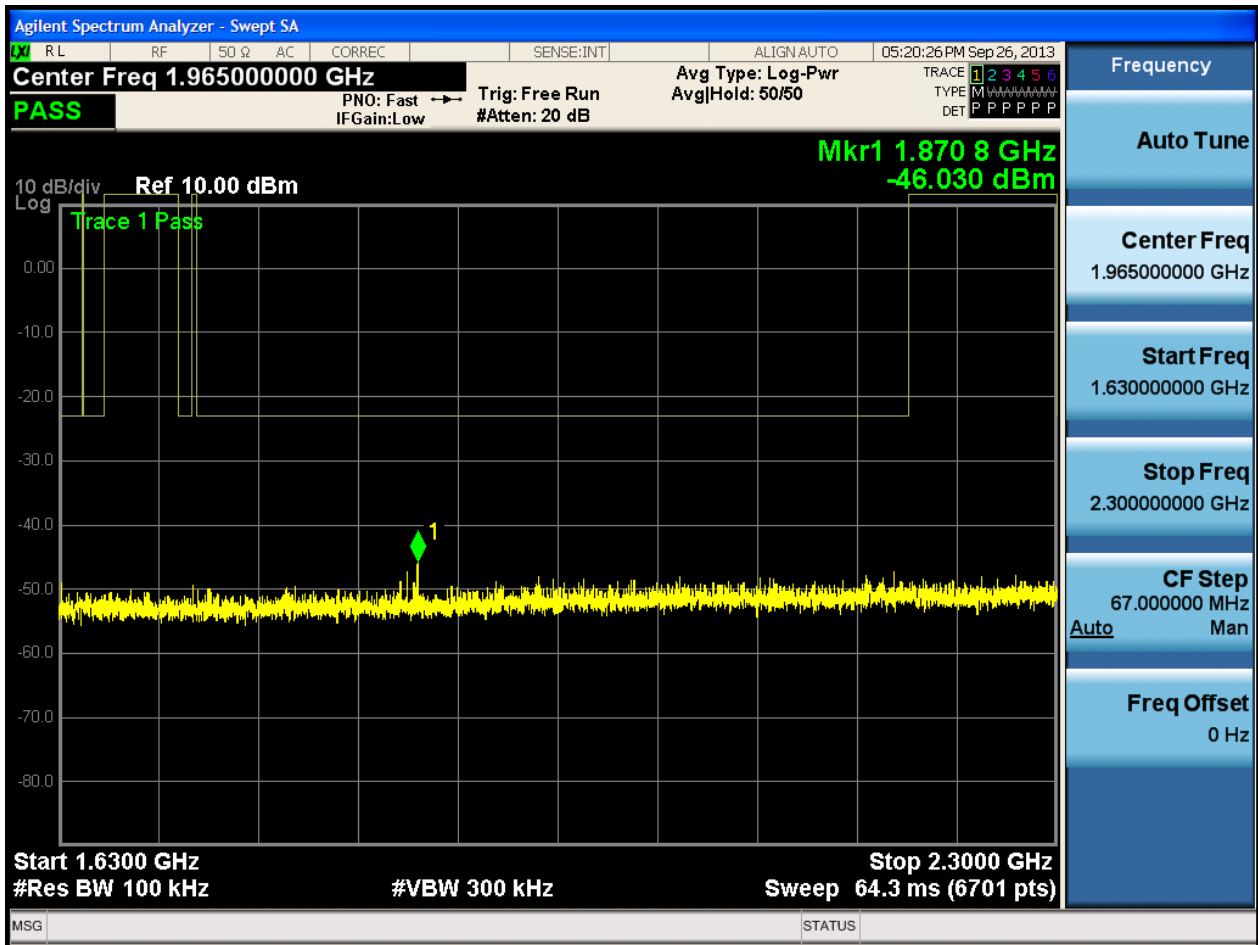
2.1.2 Puw

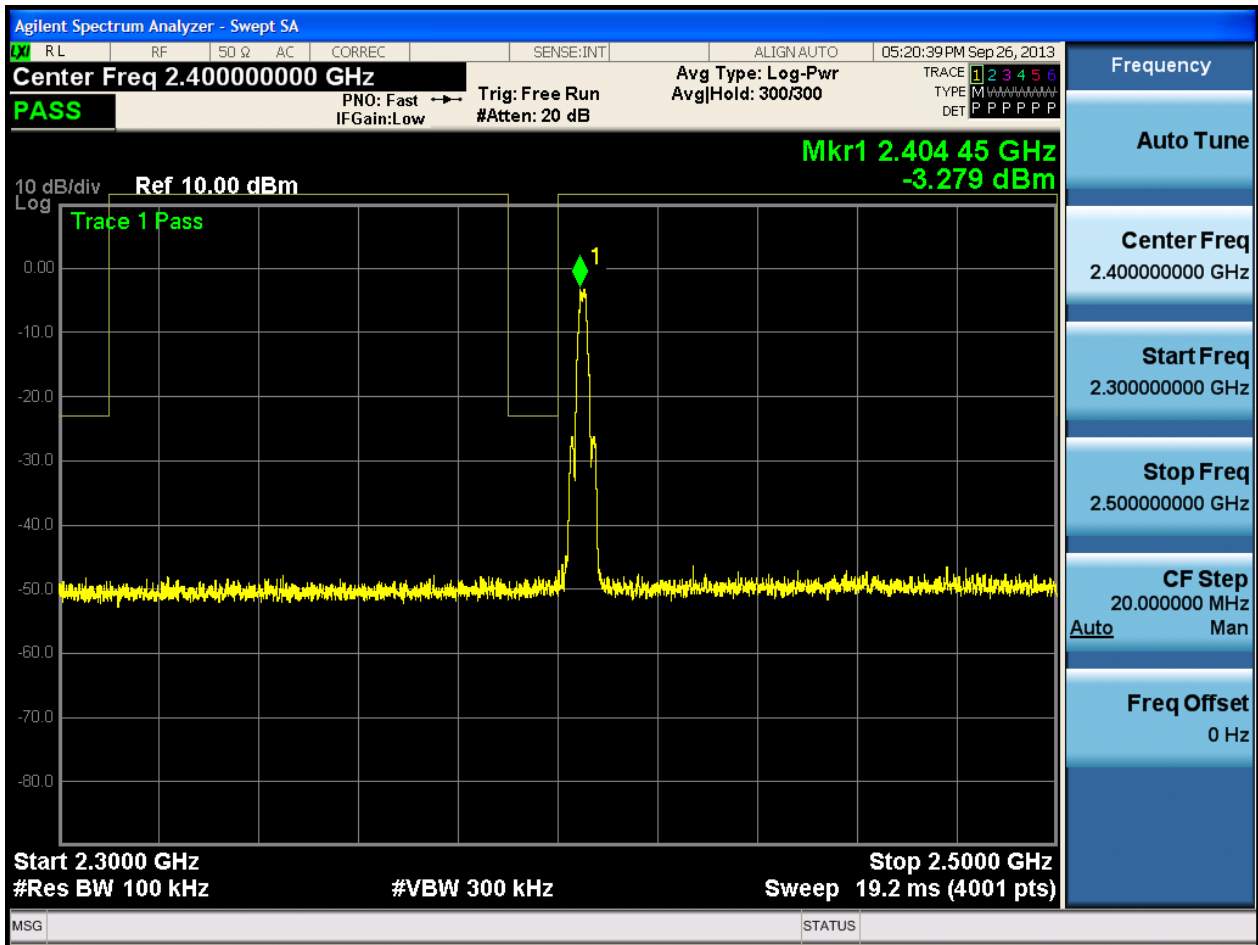


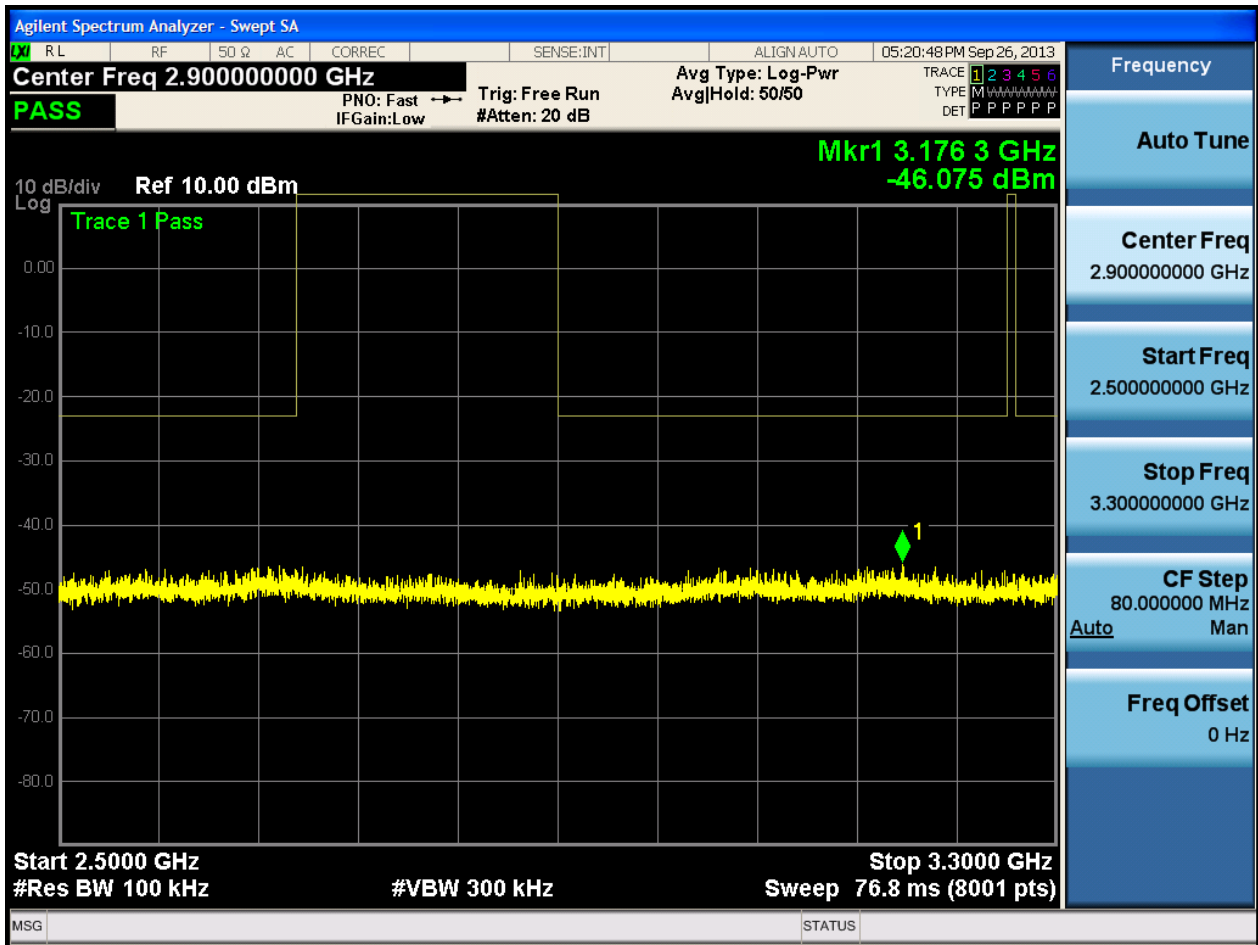


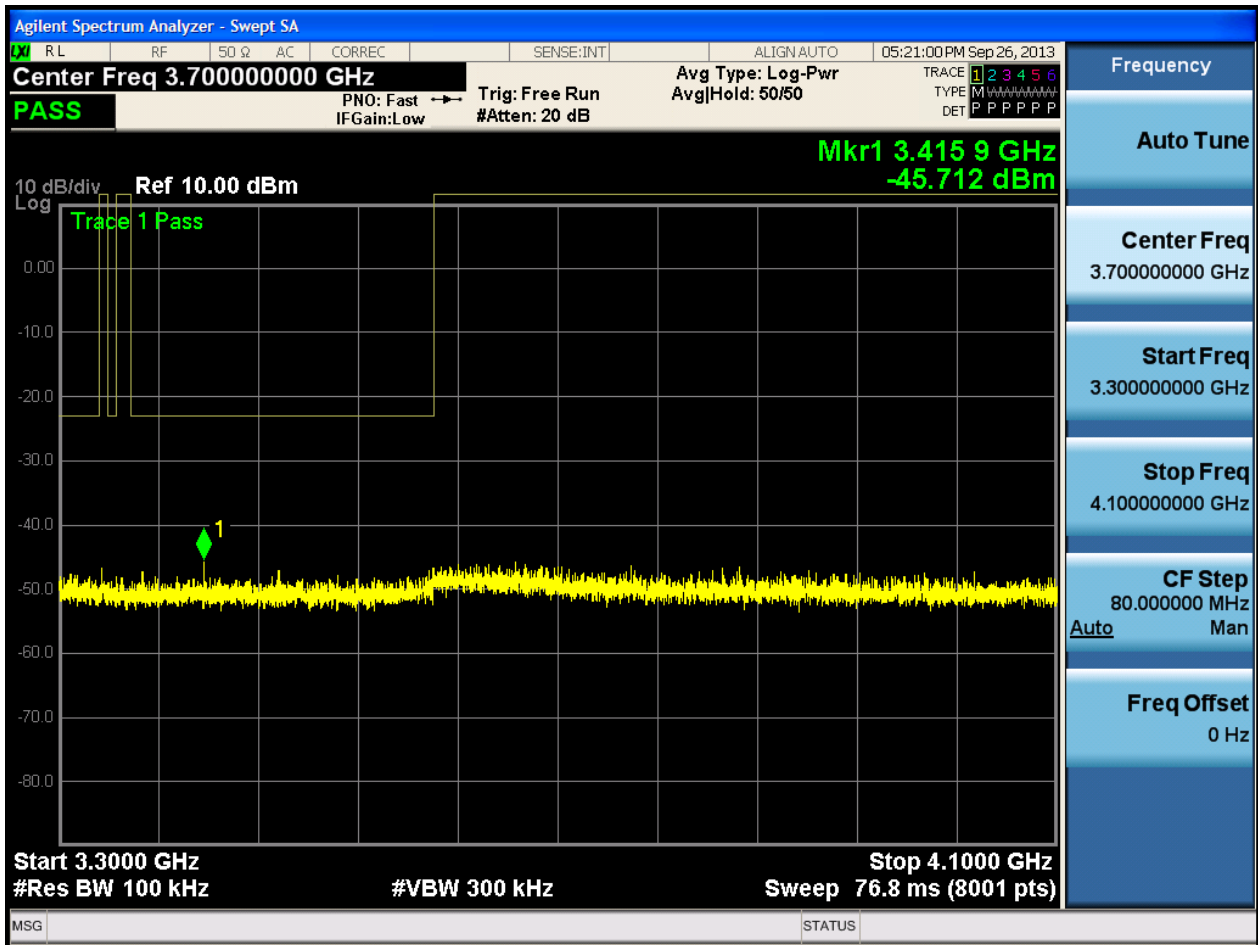


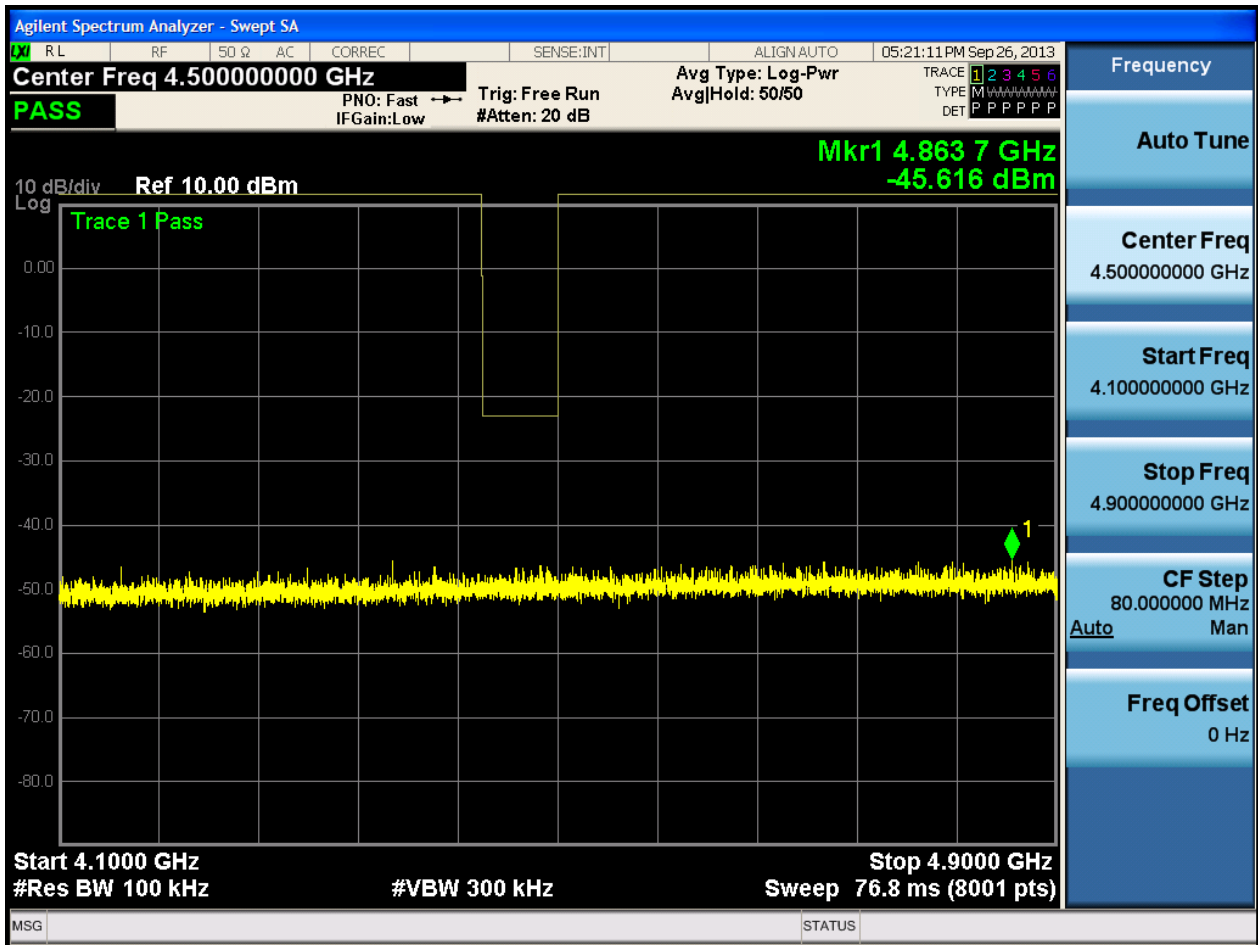


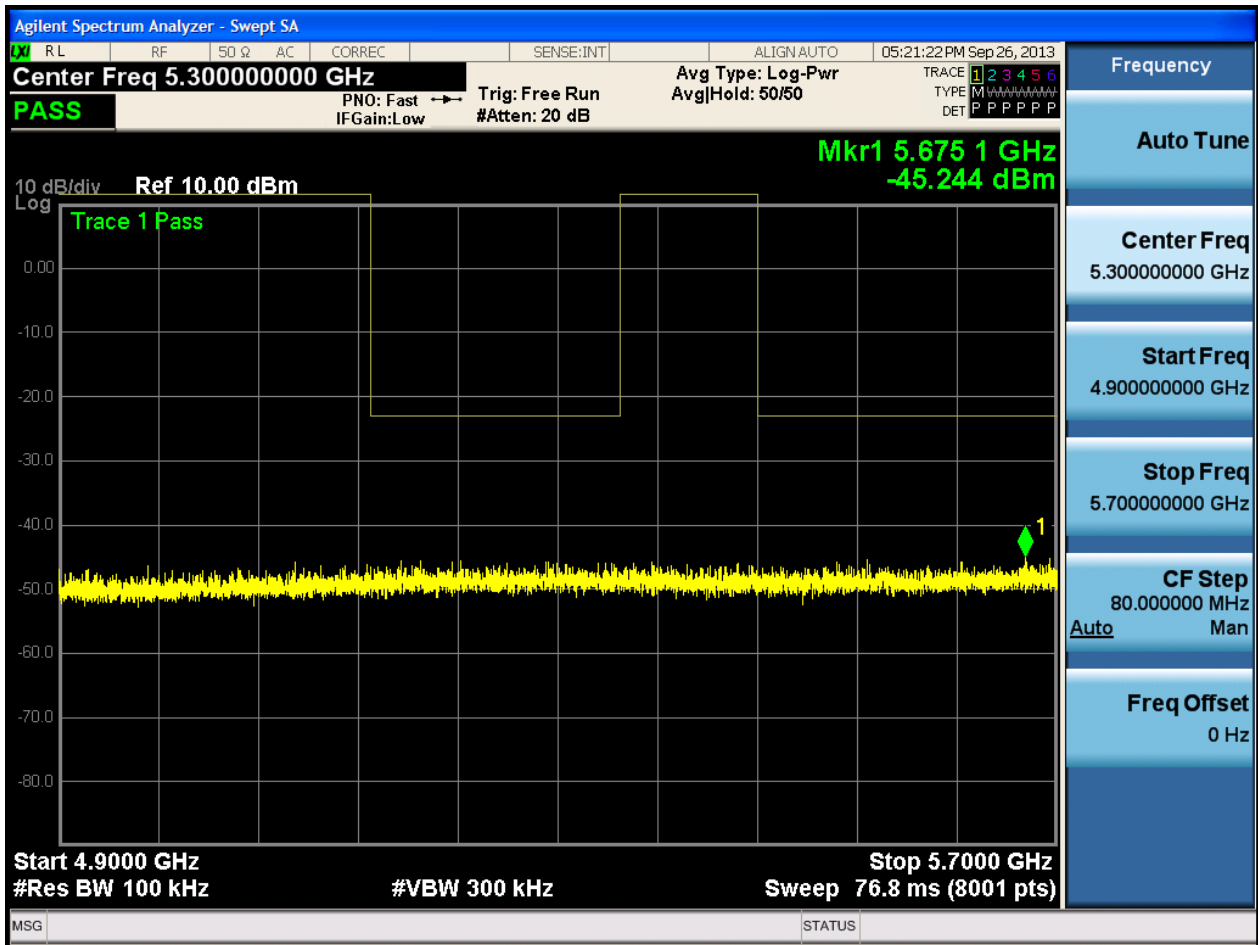


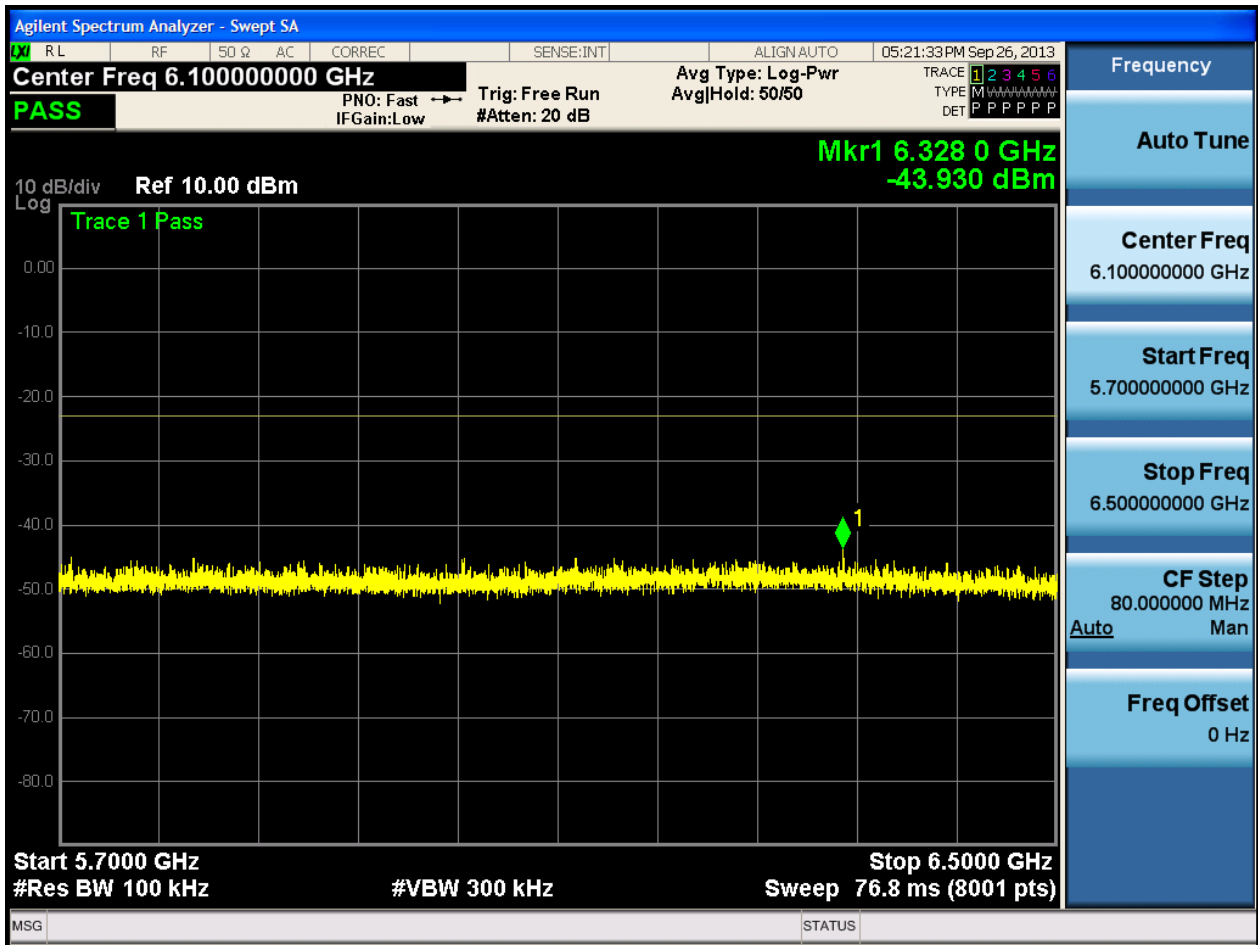


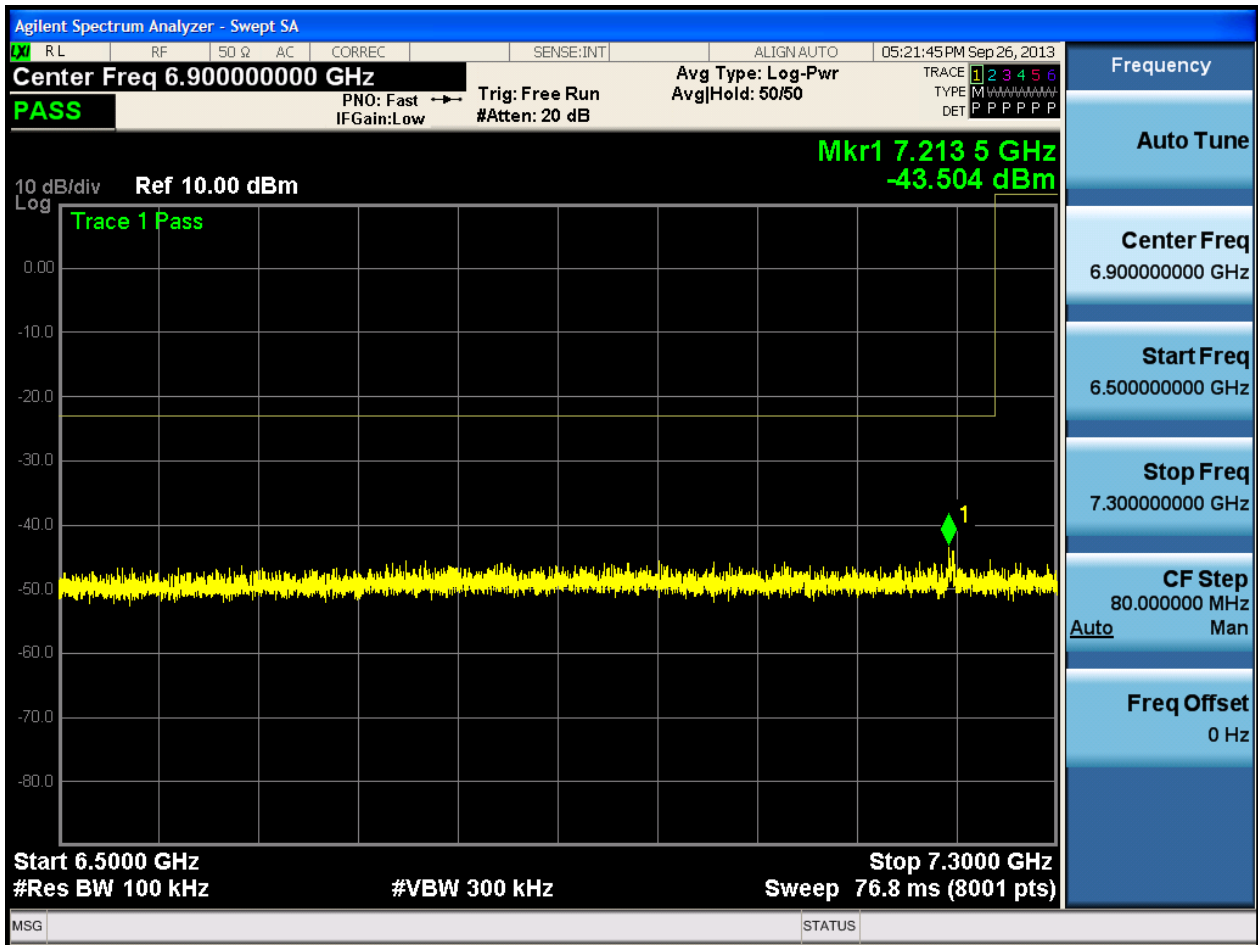


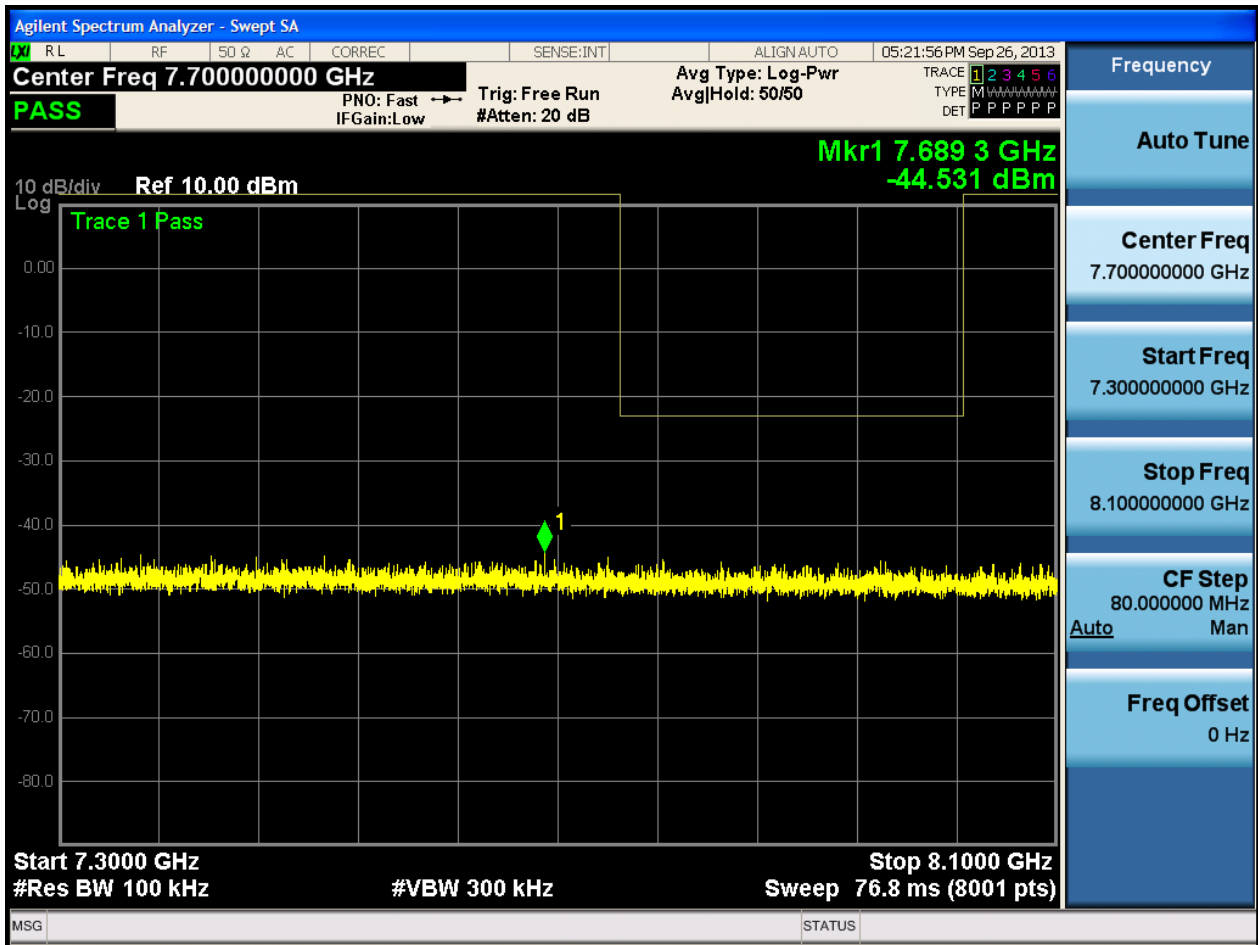


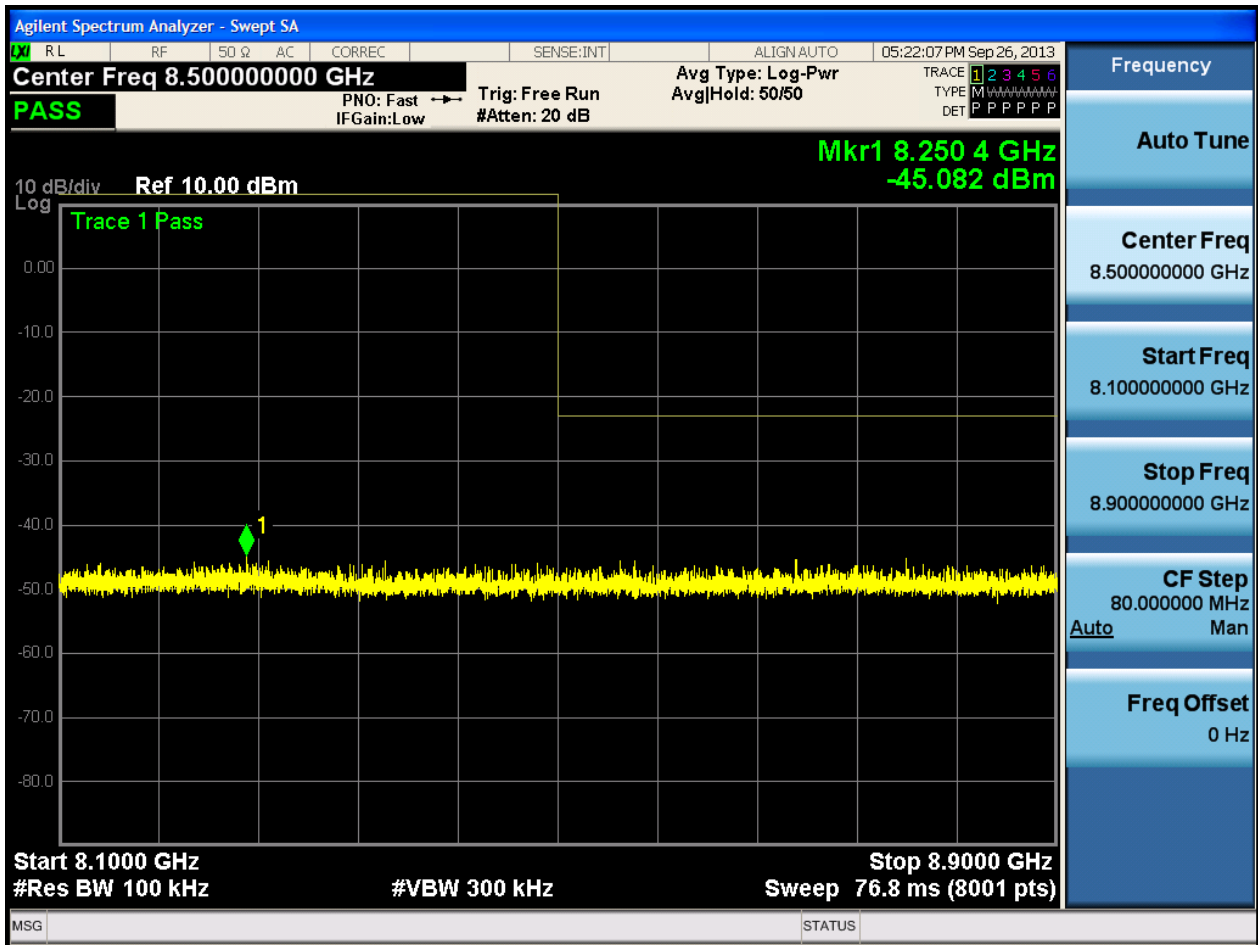


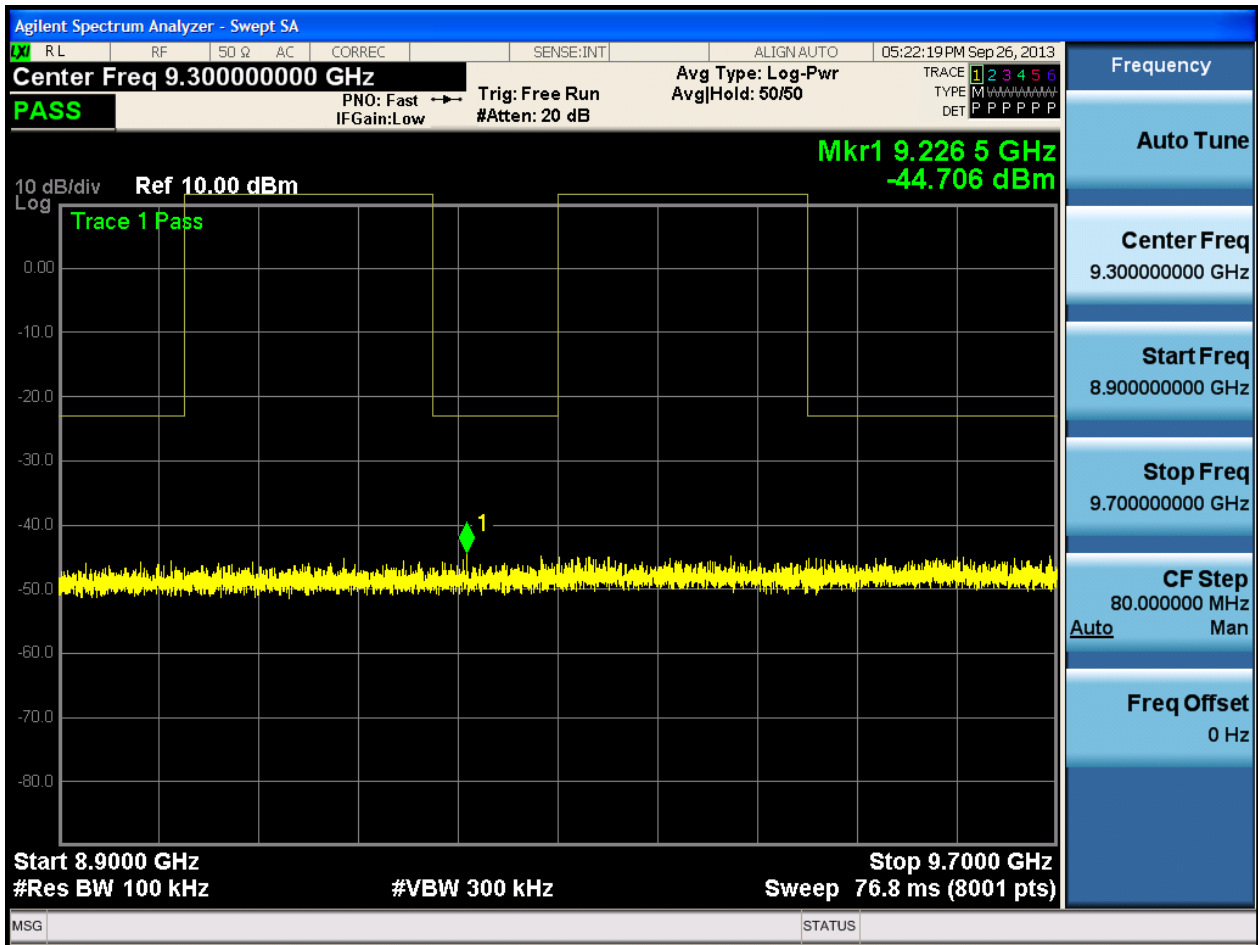


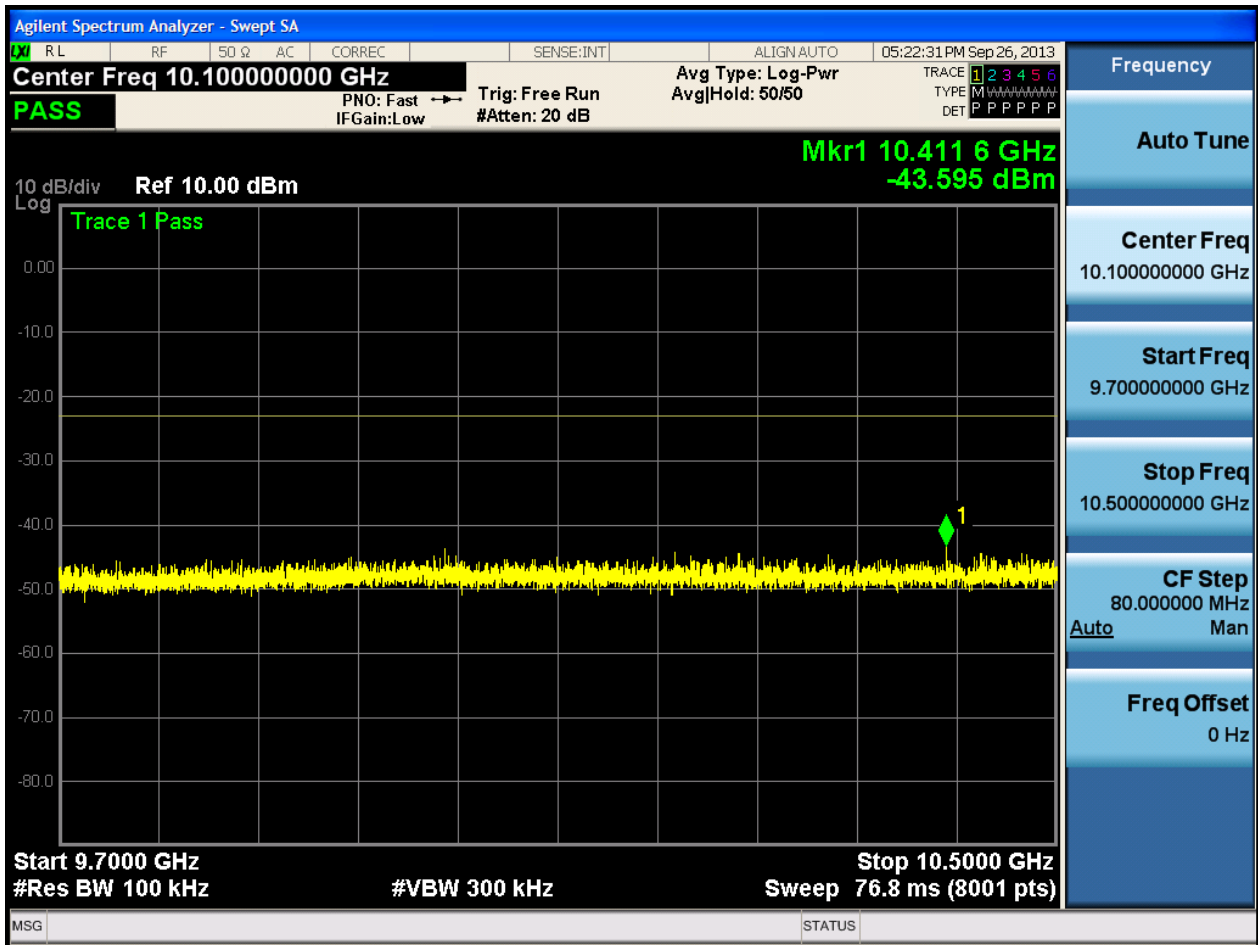


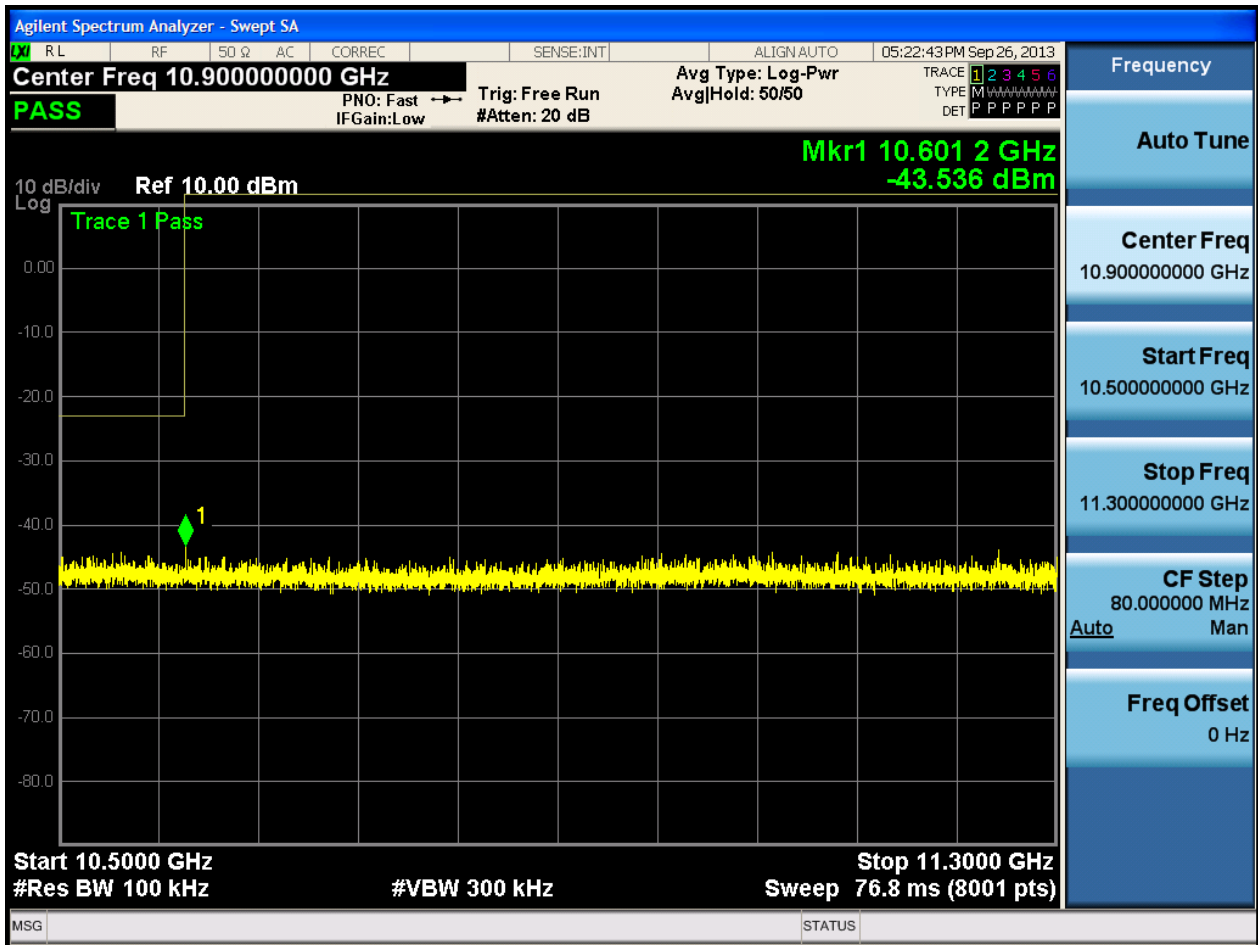


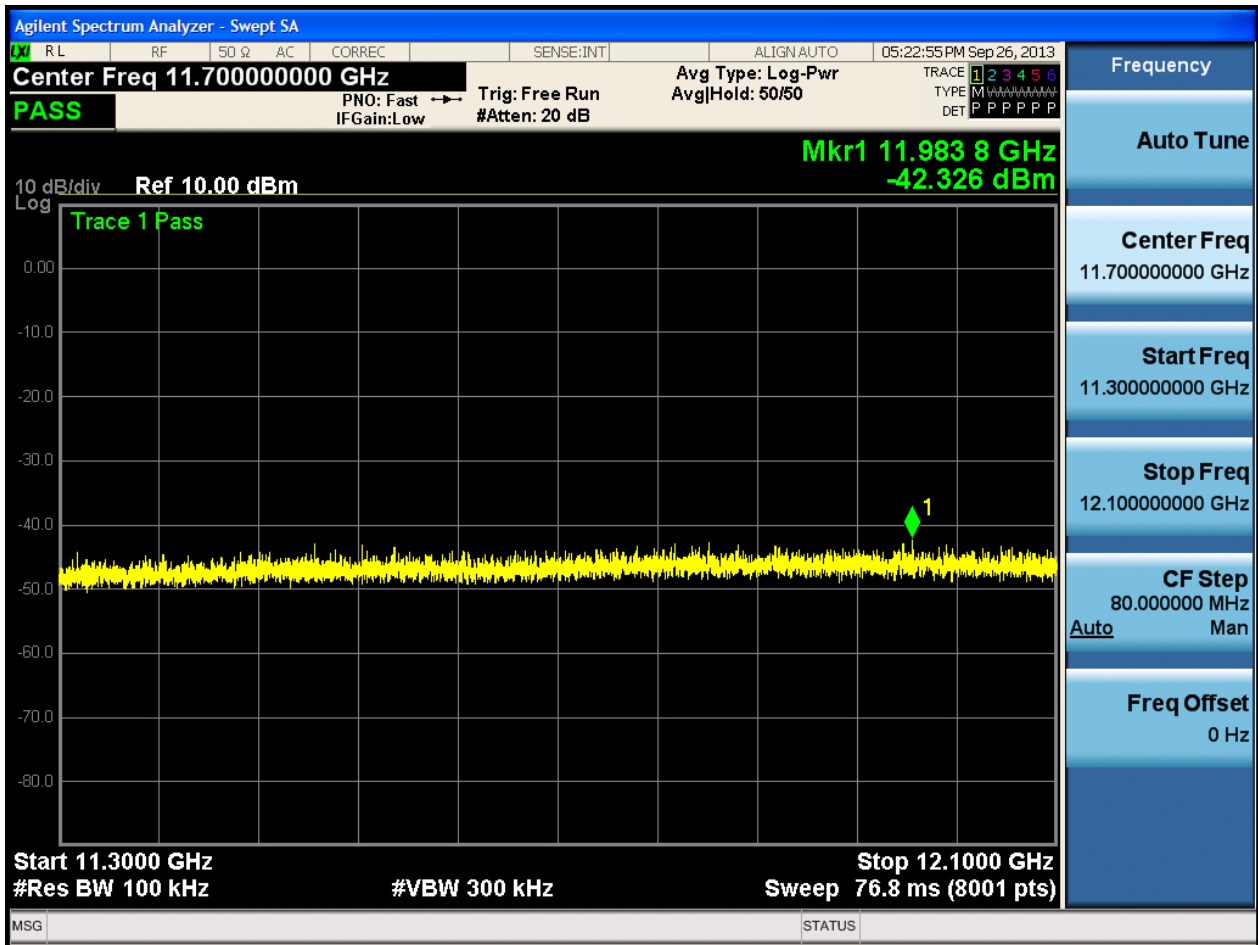


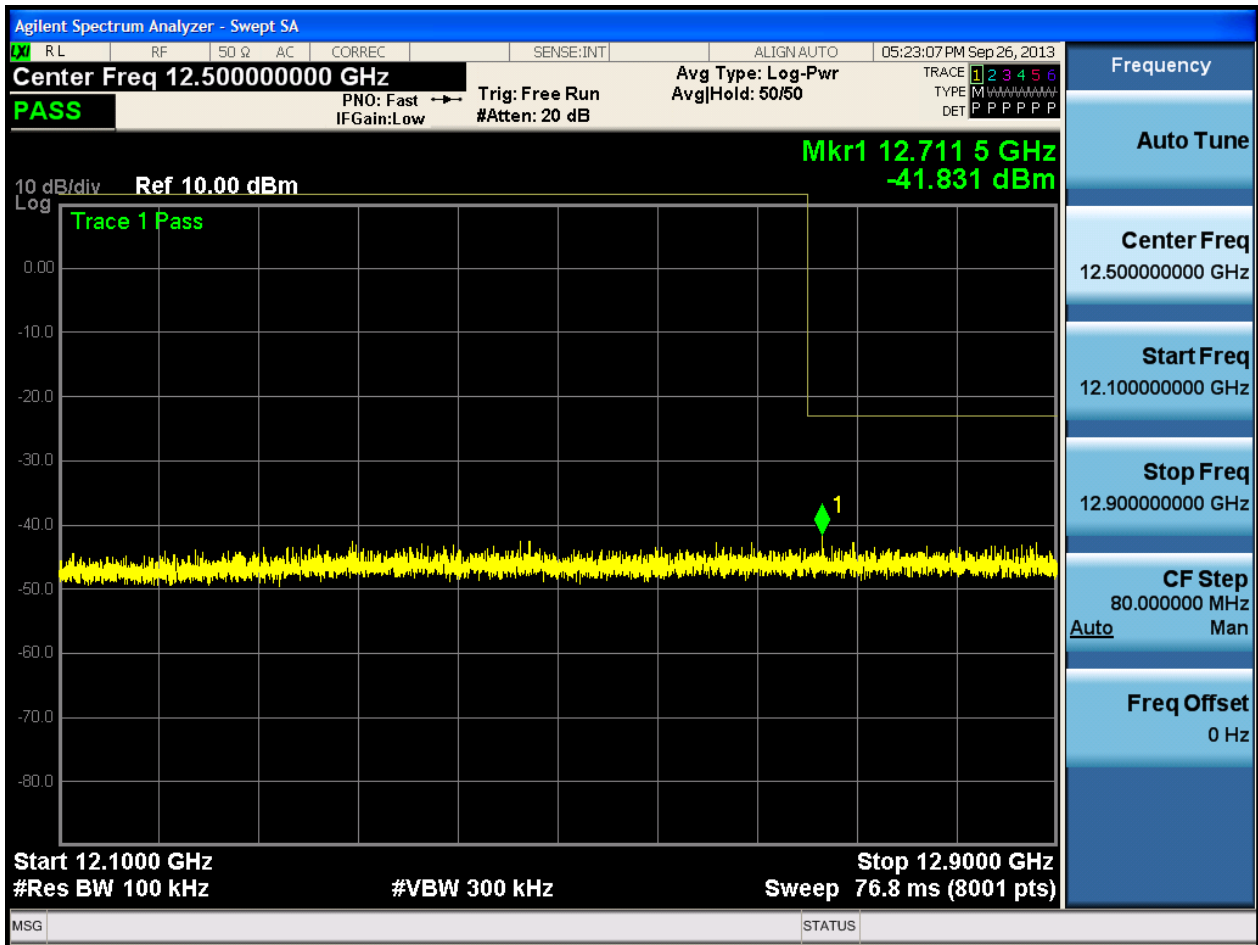


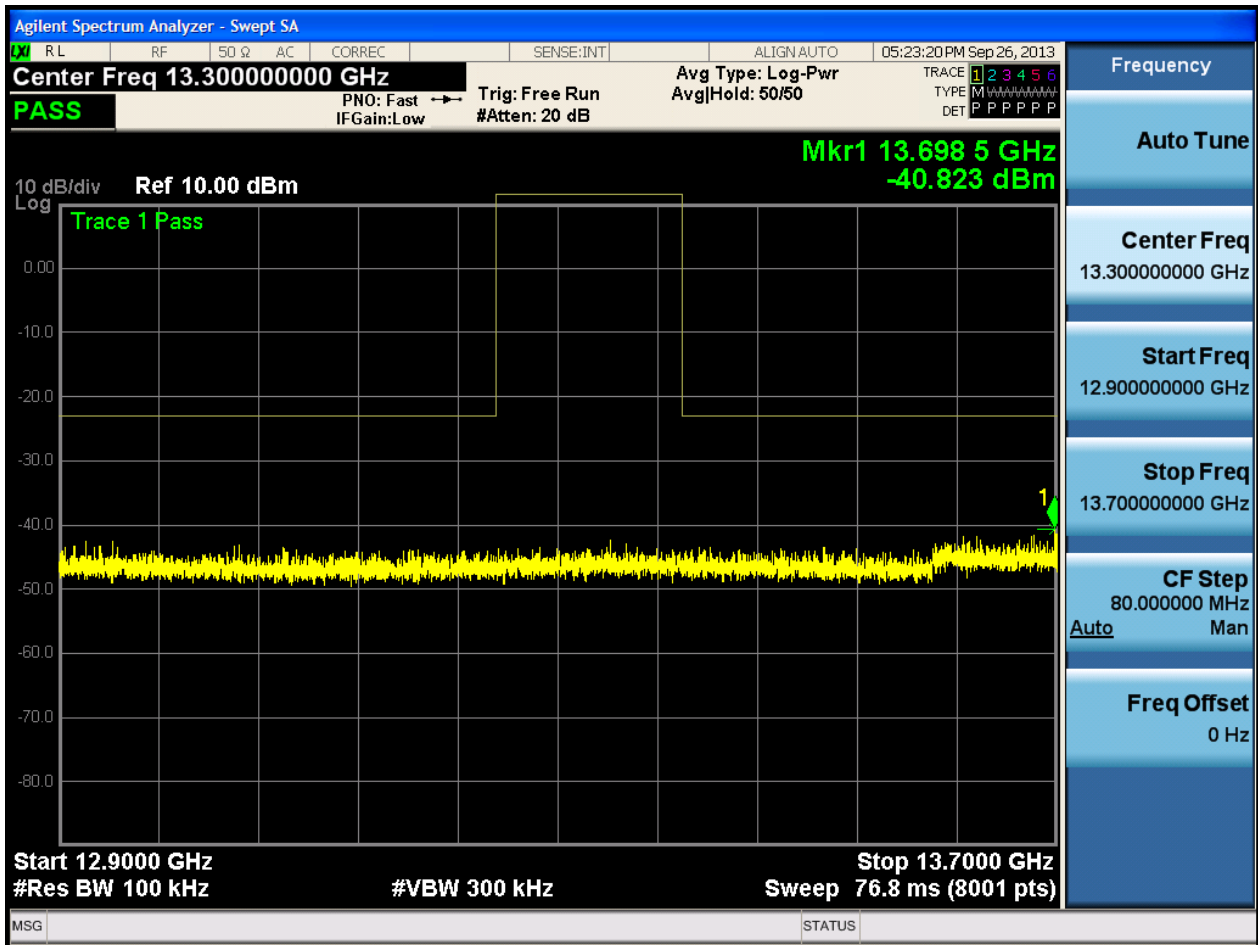


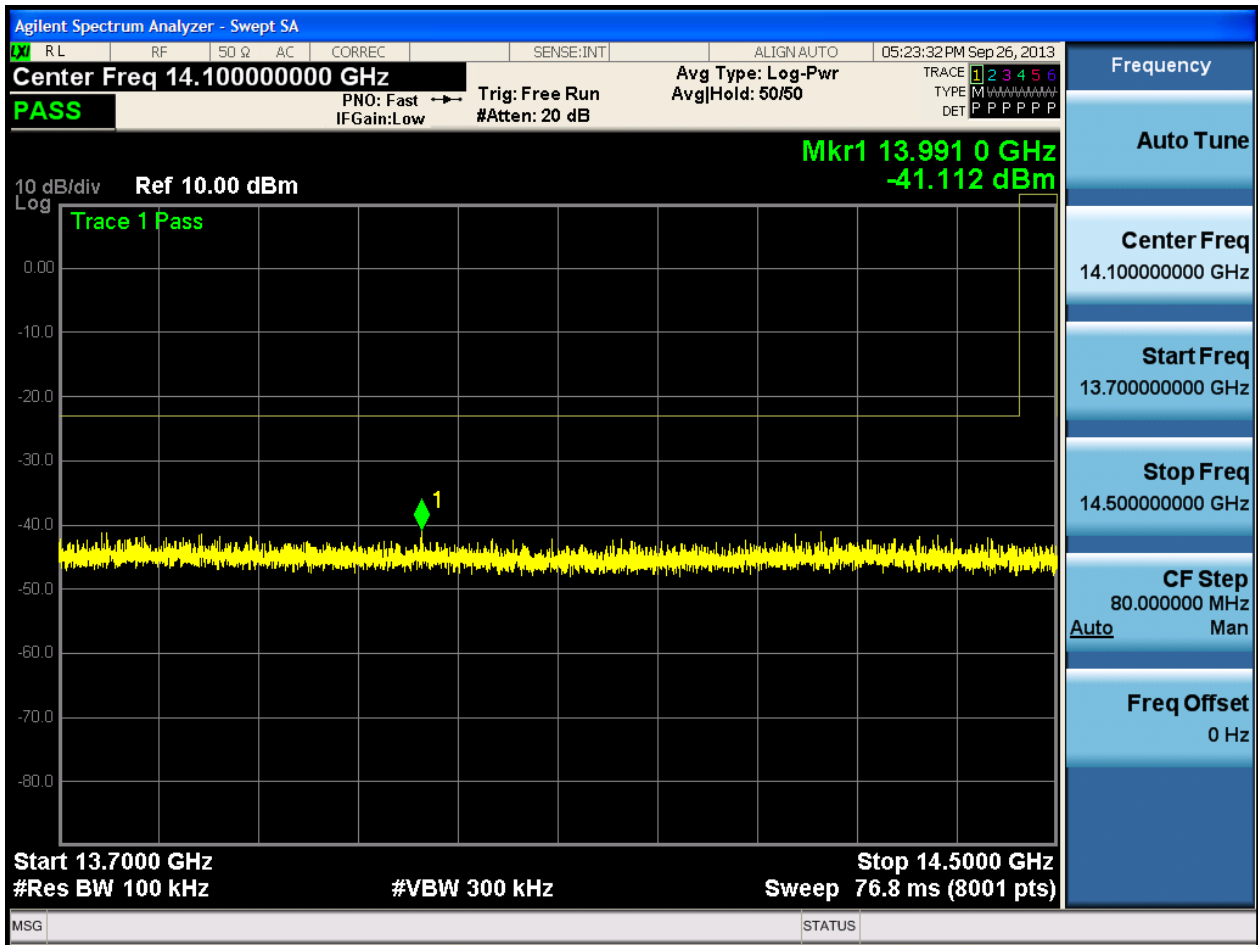


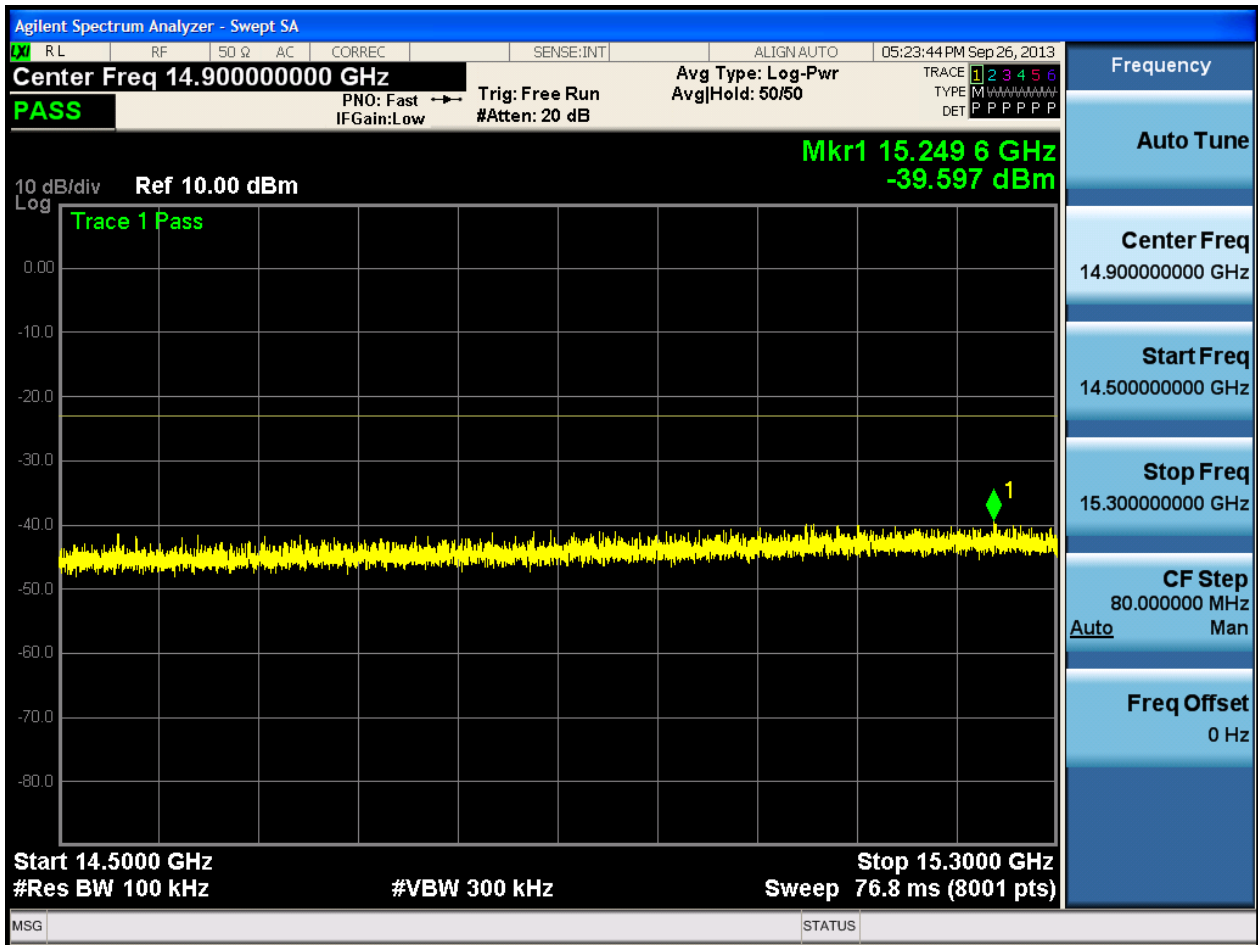


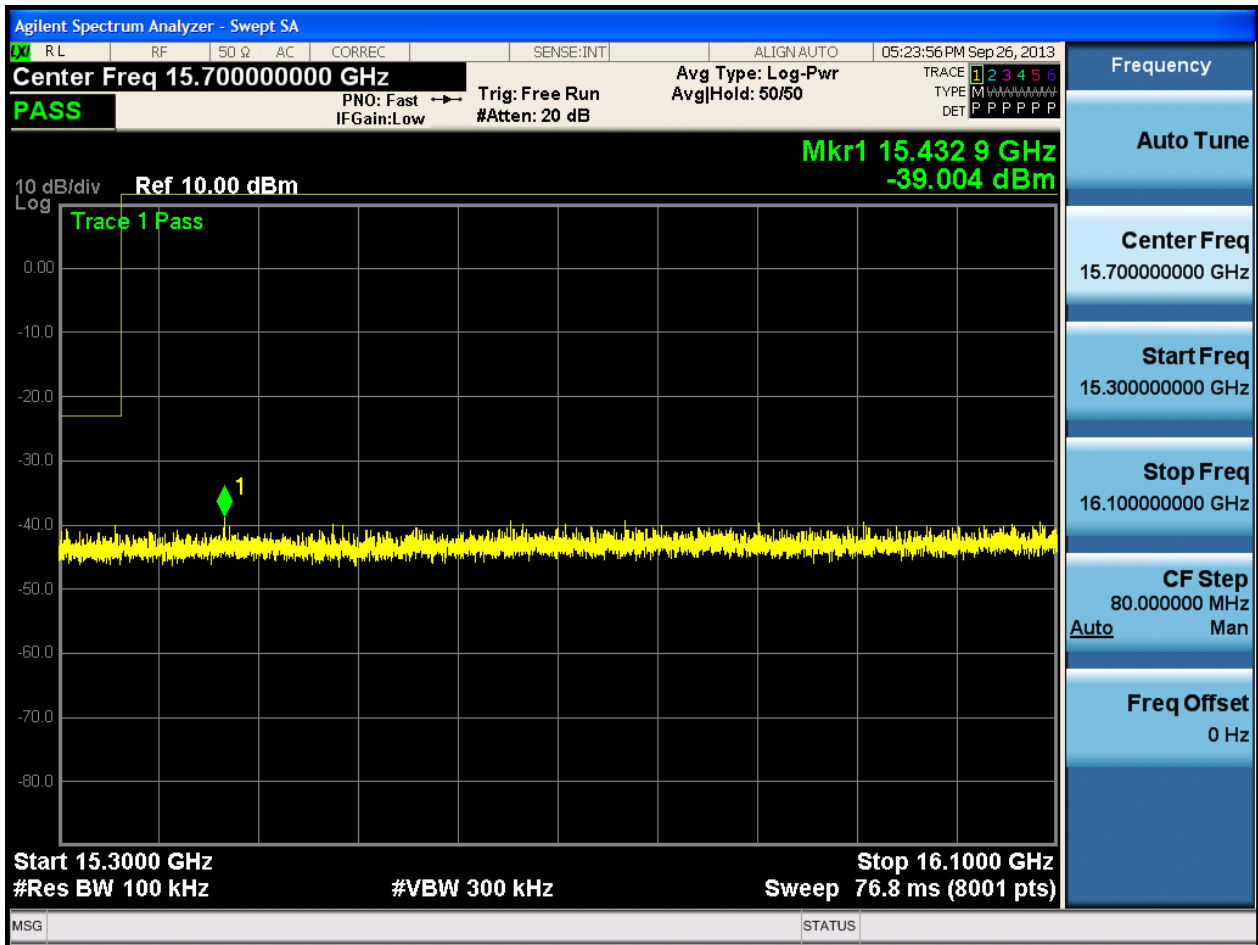


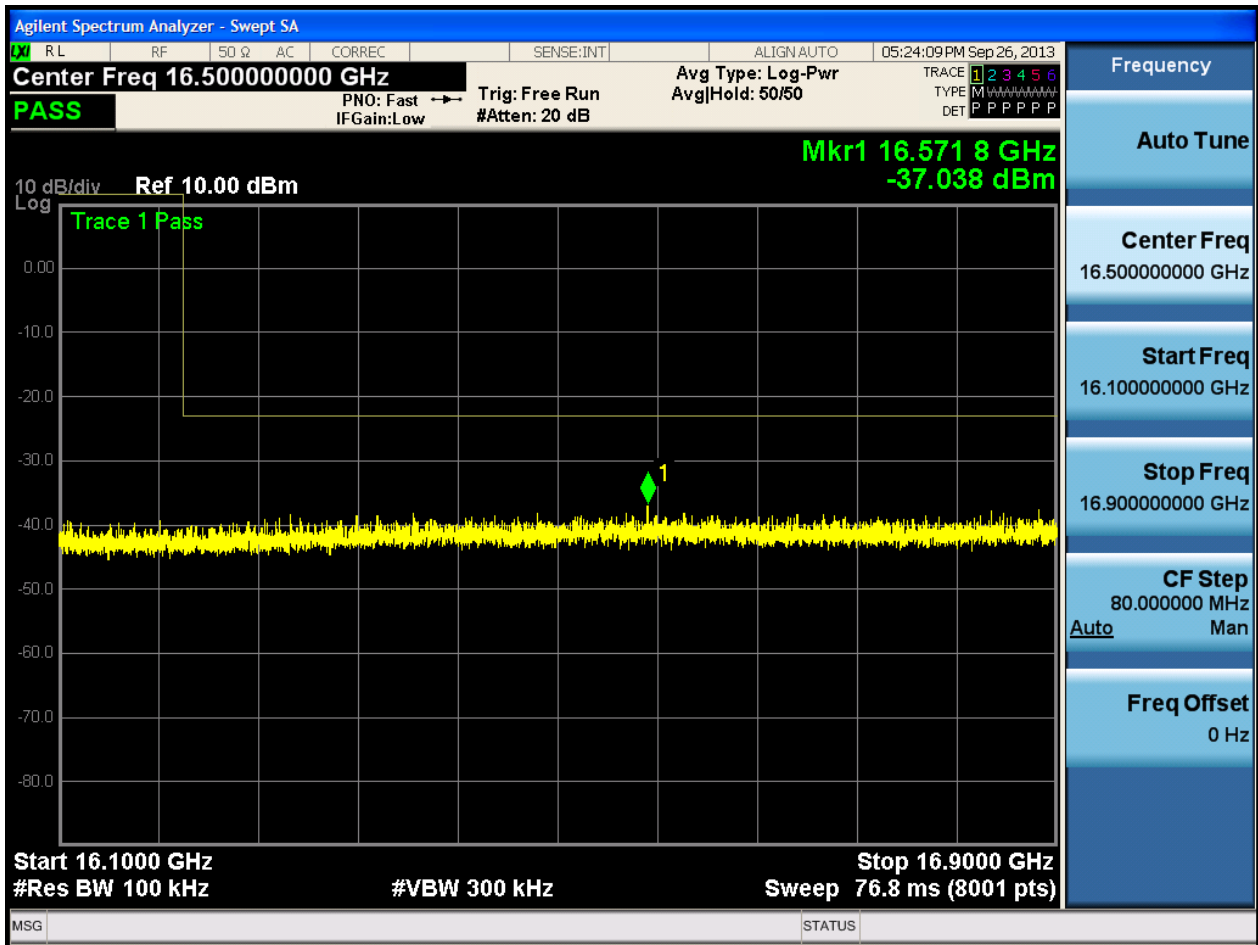


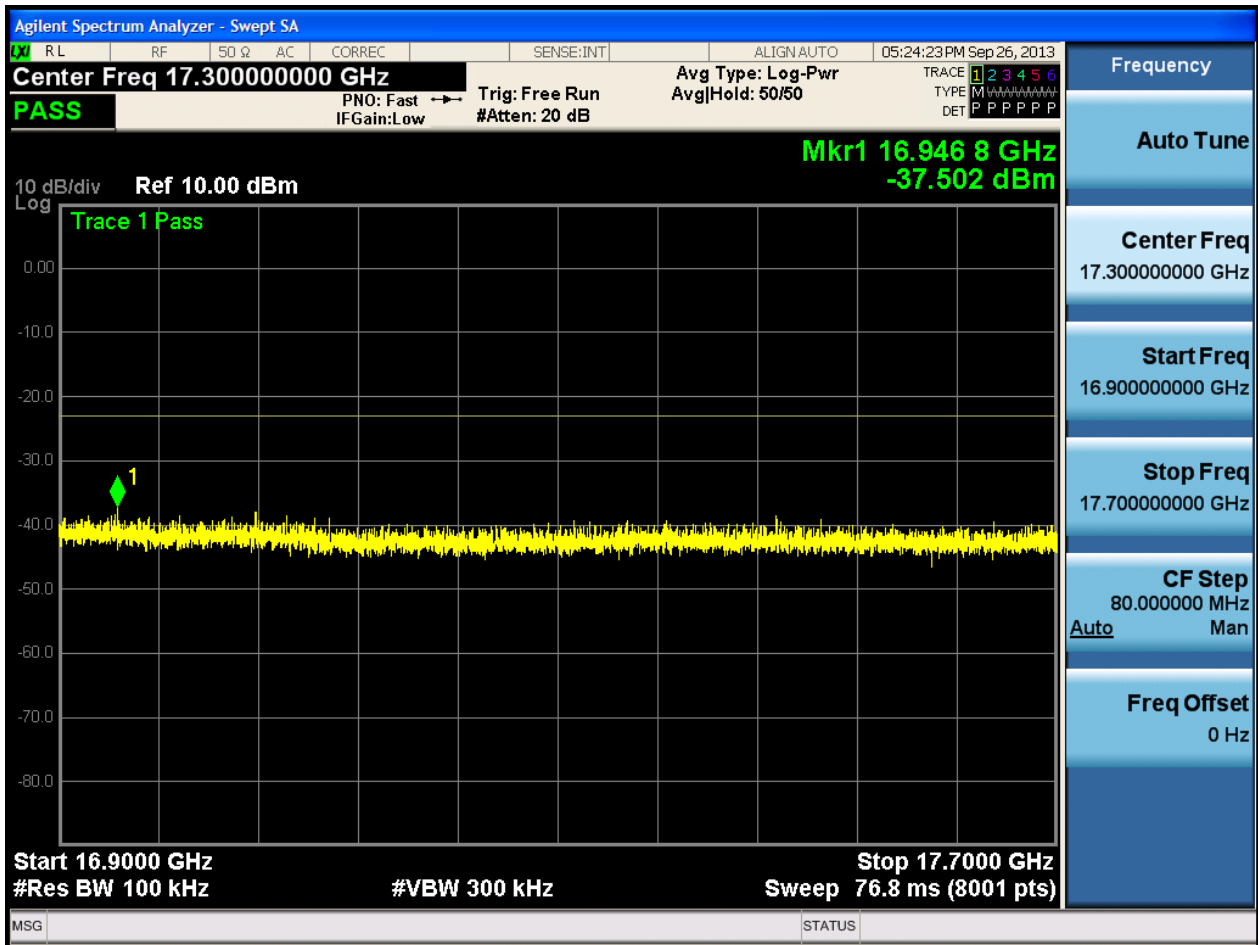


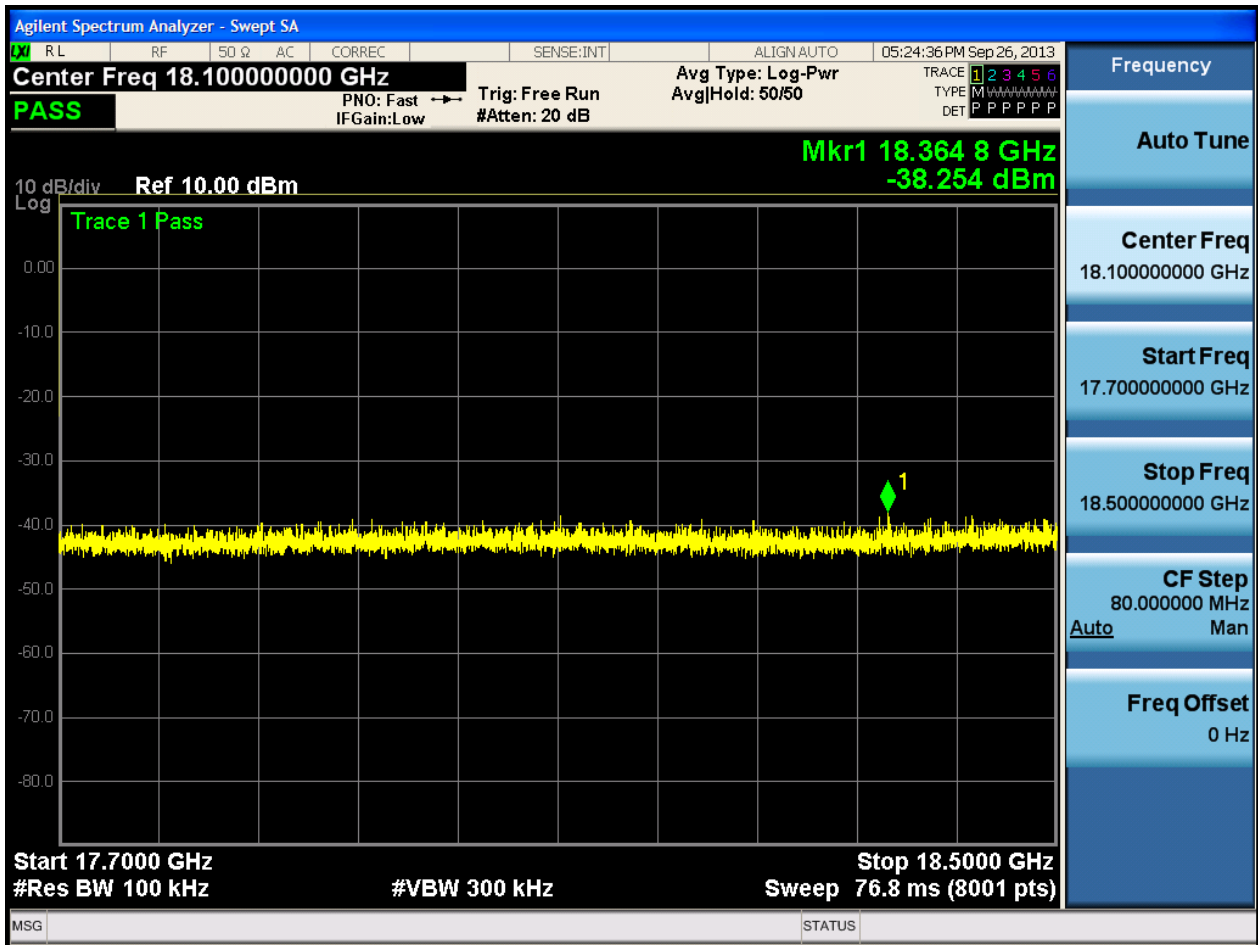


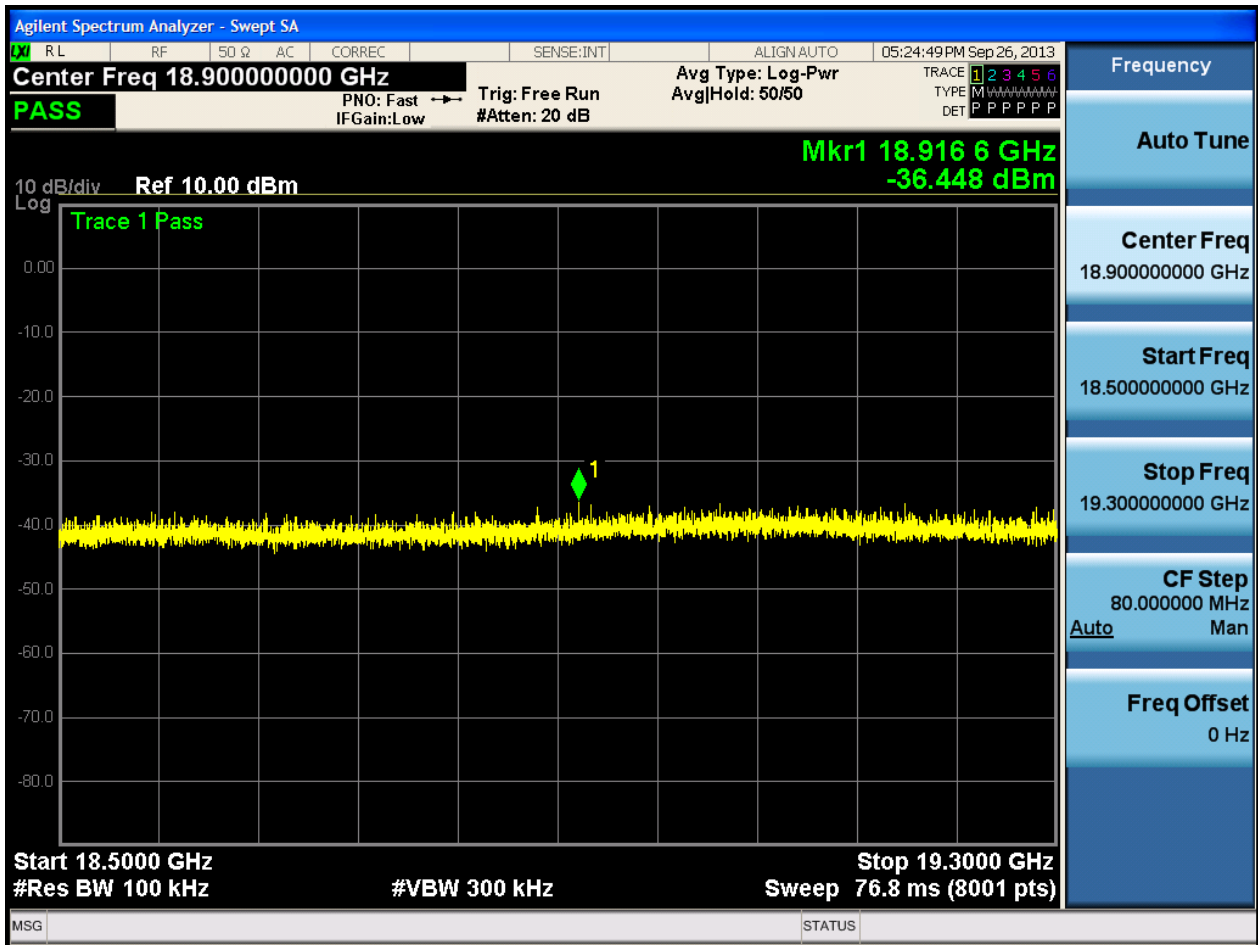


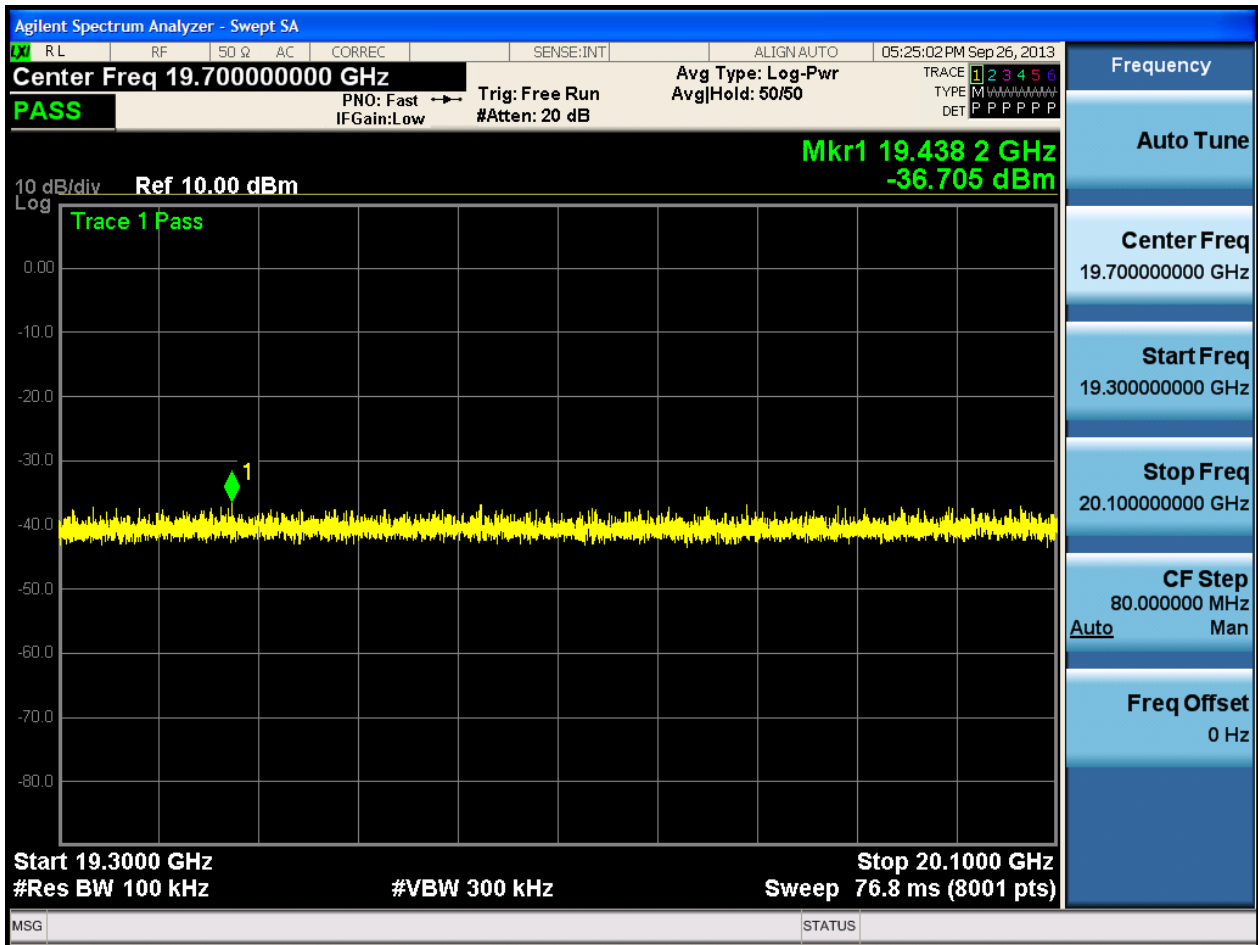


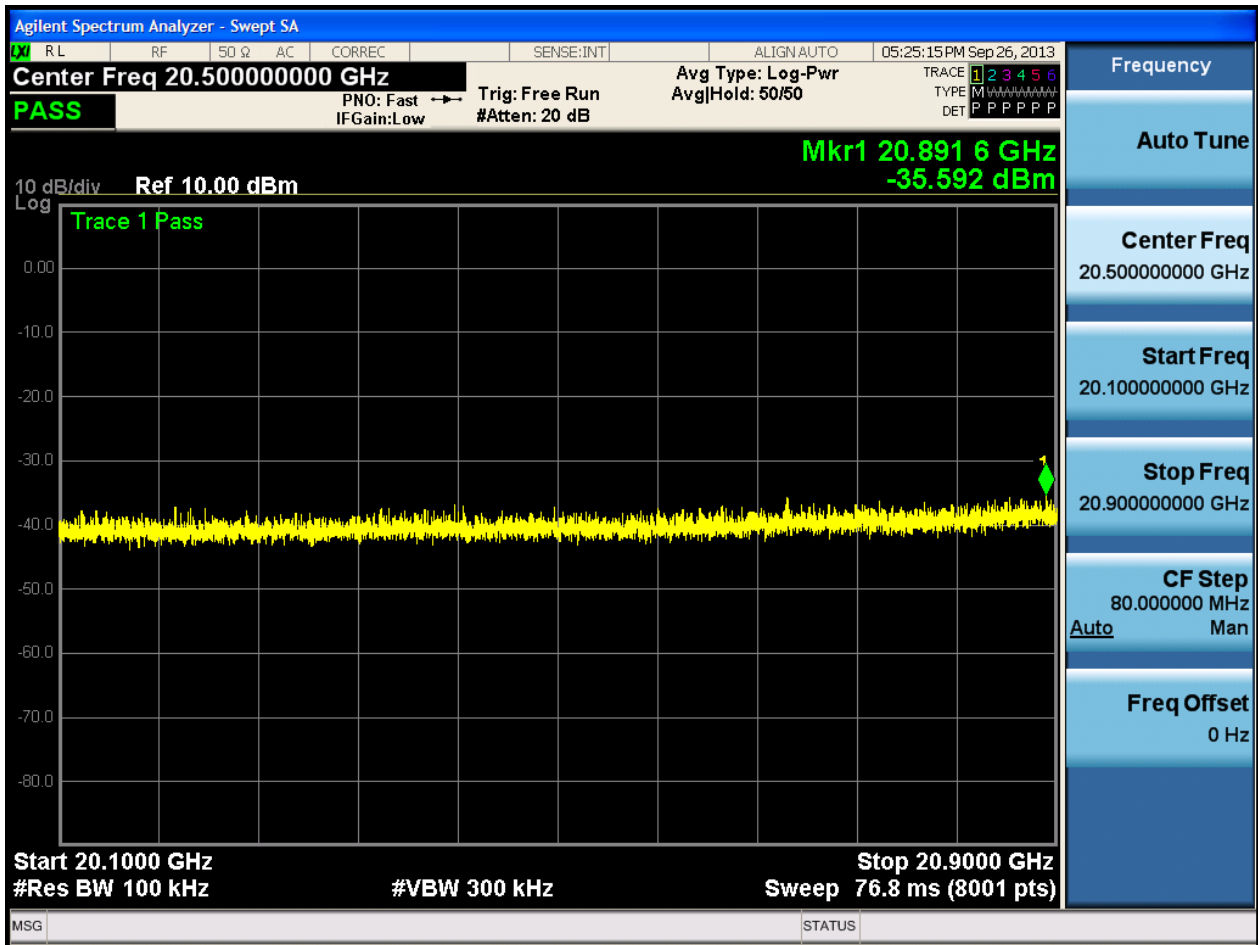


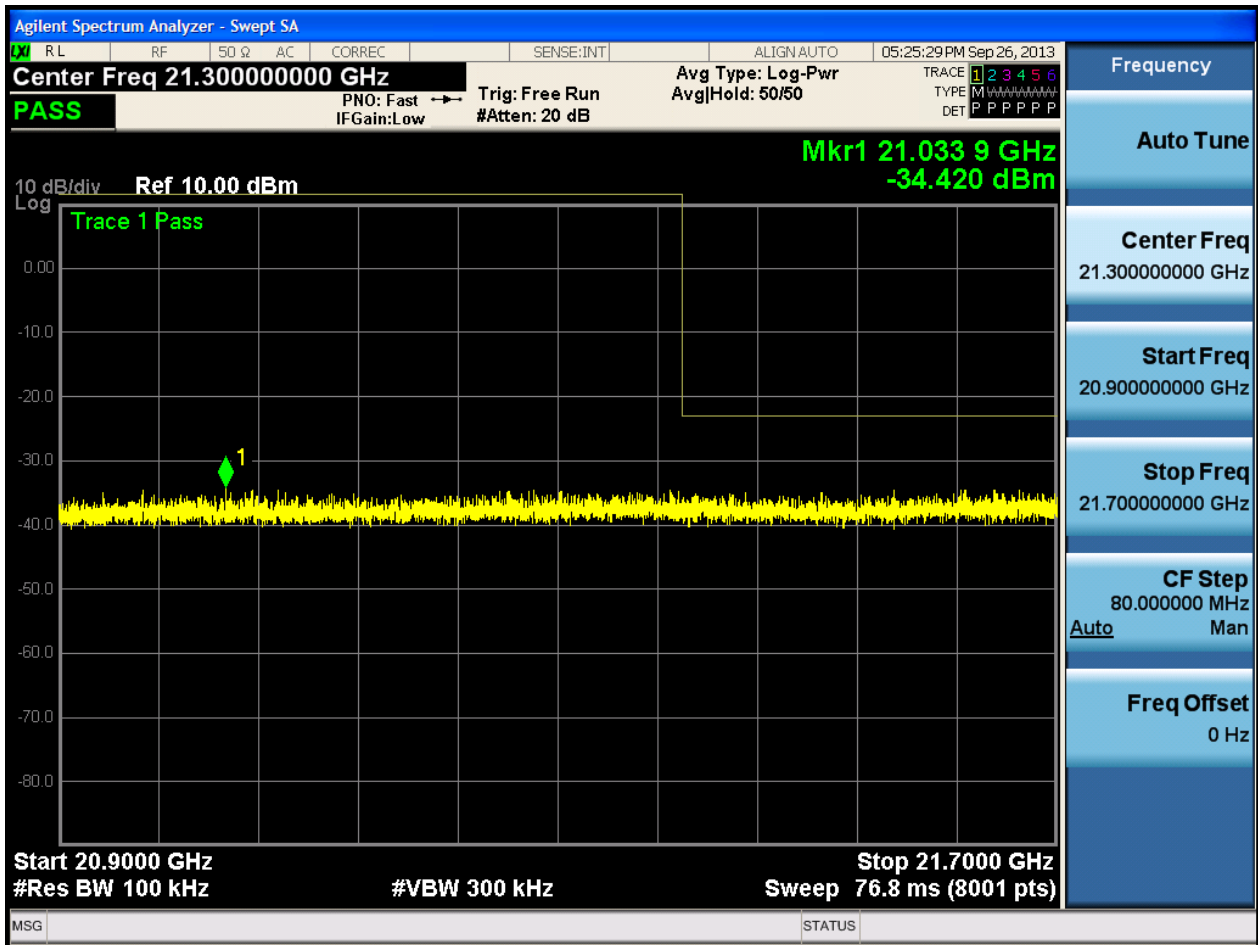


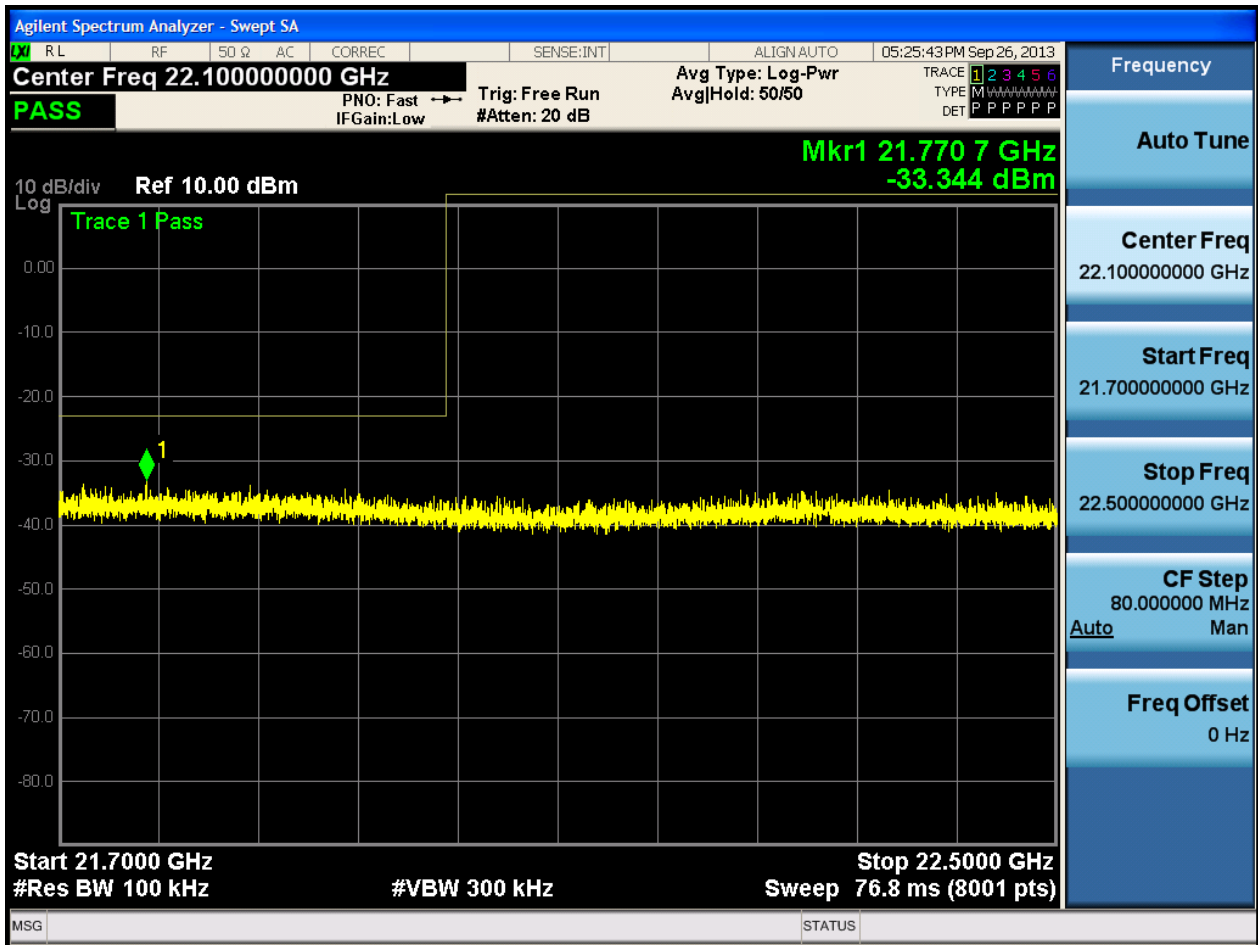


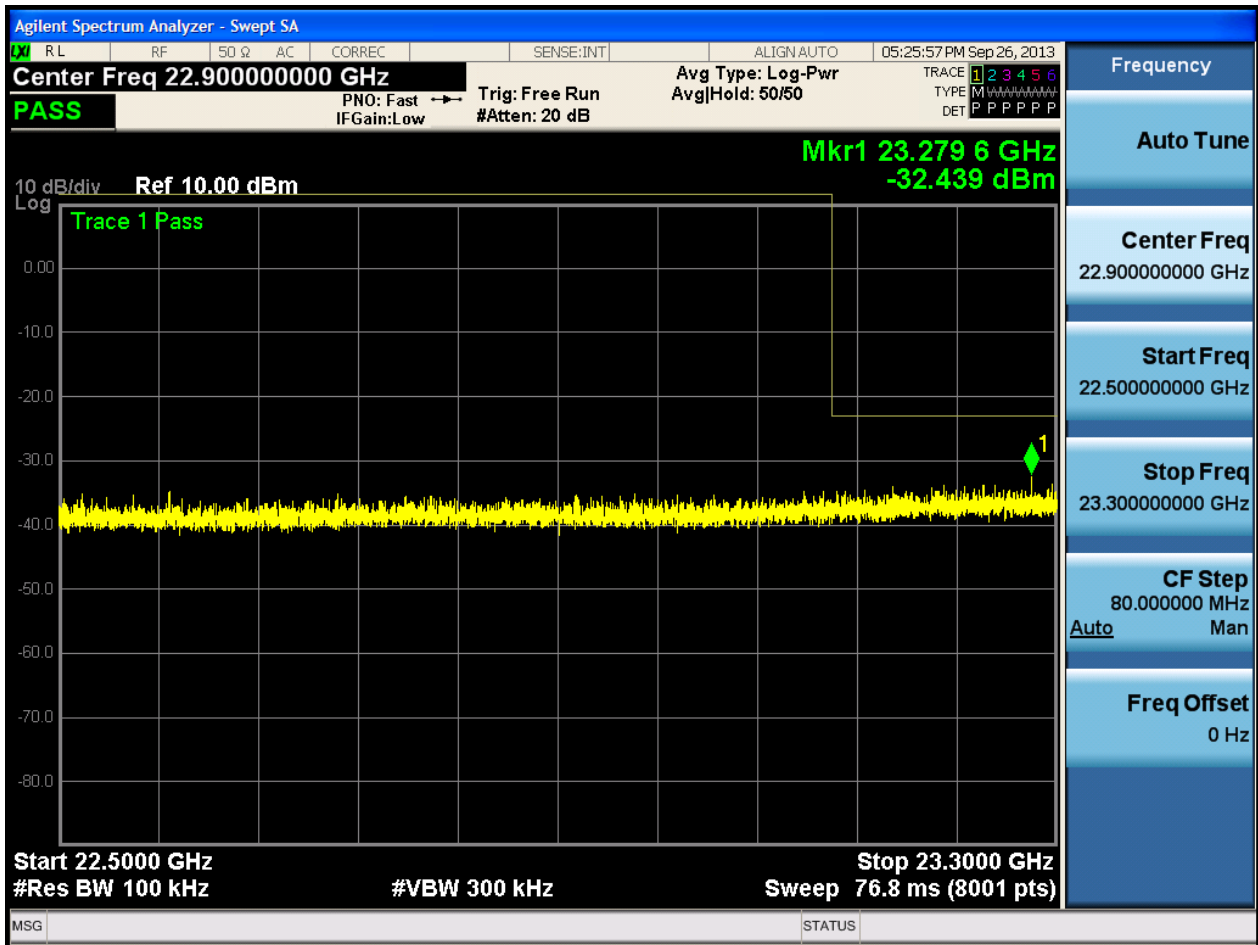


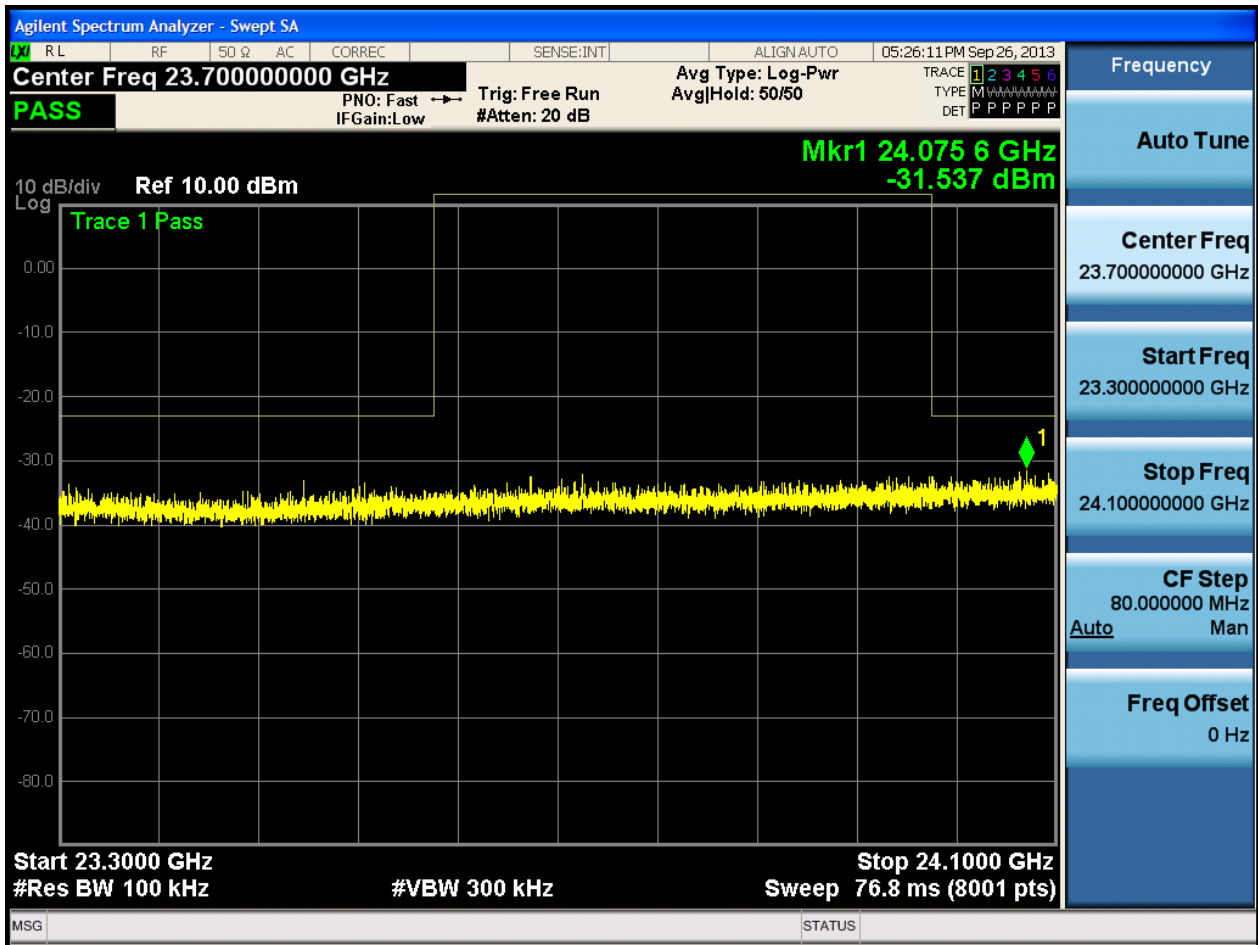


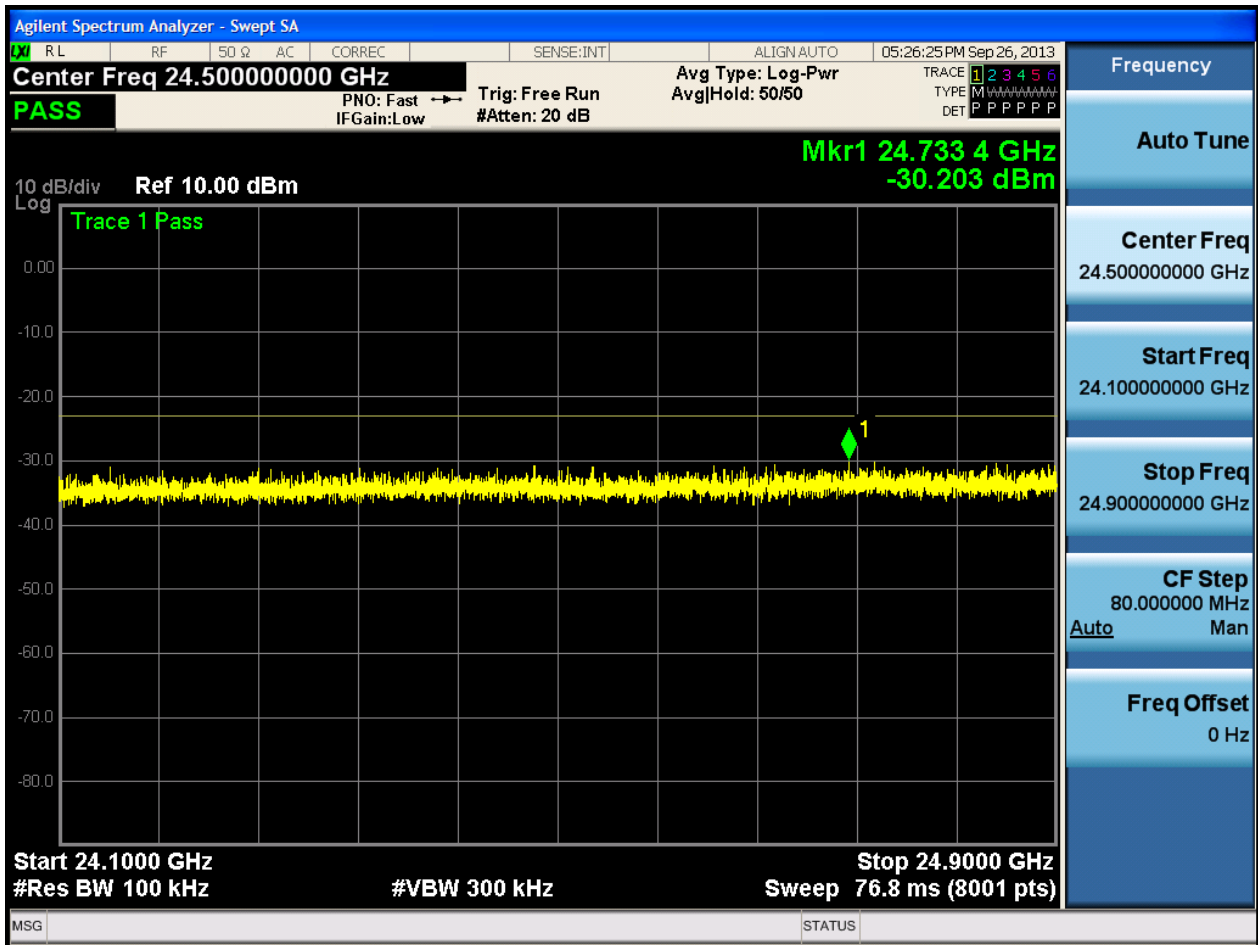


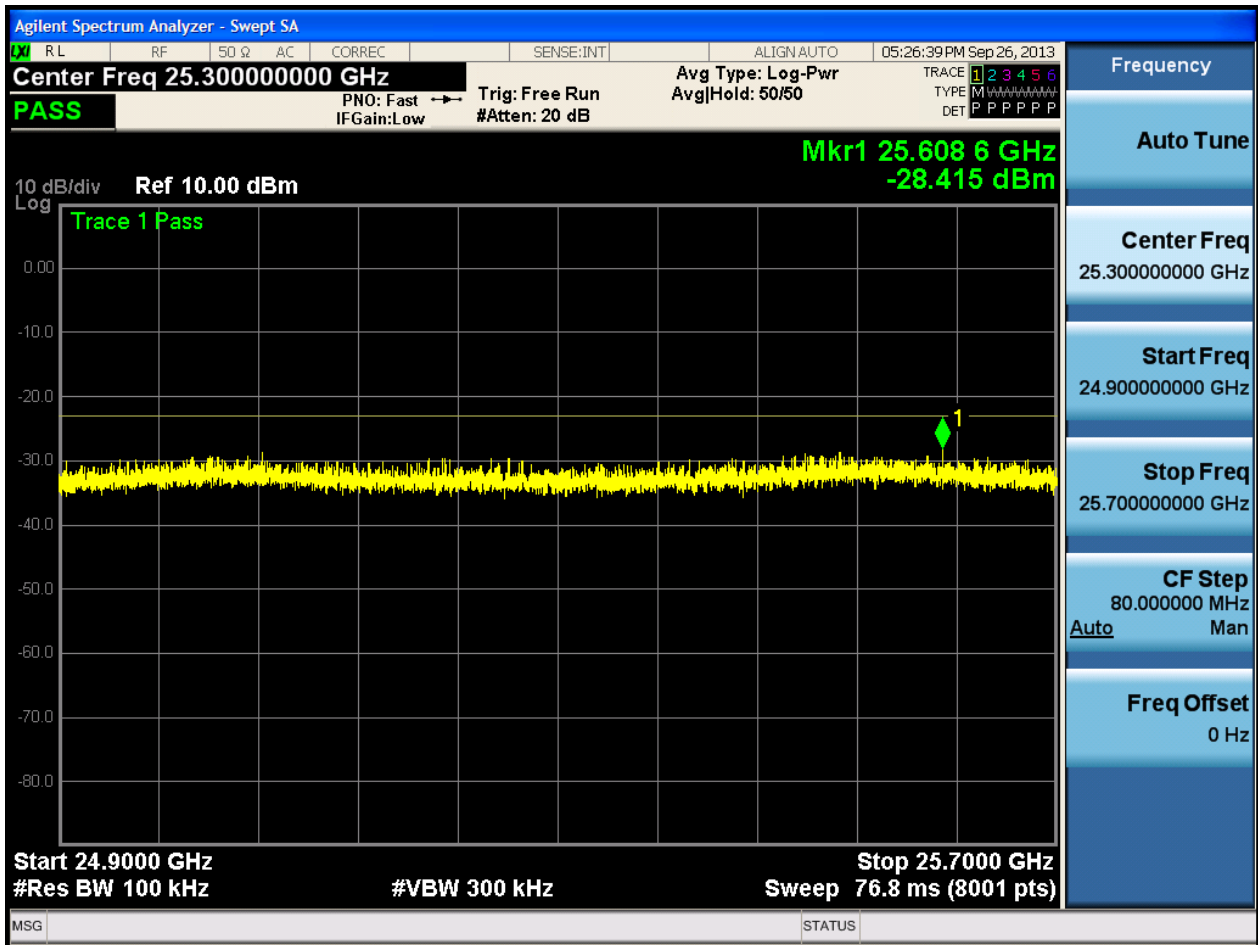


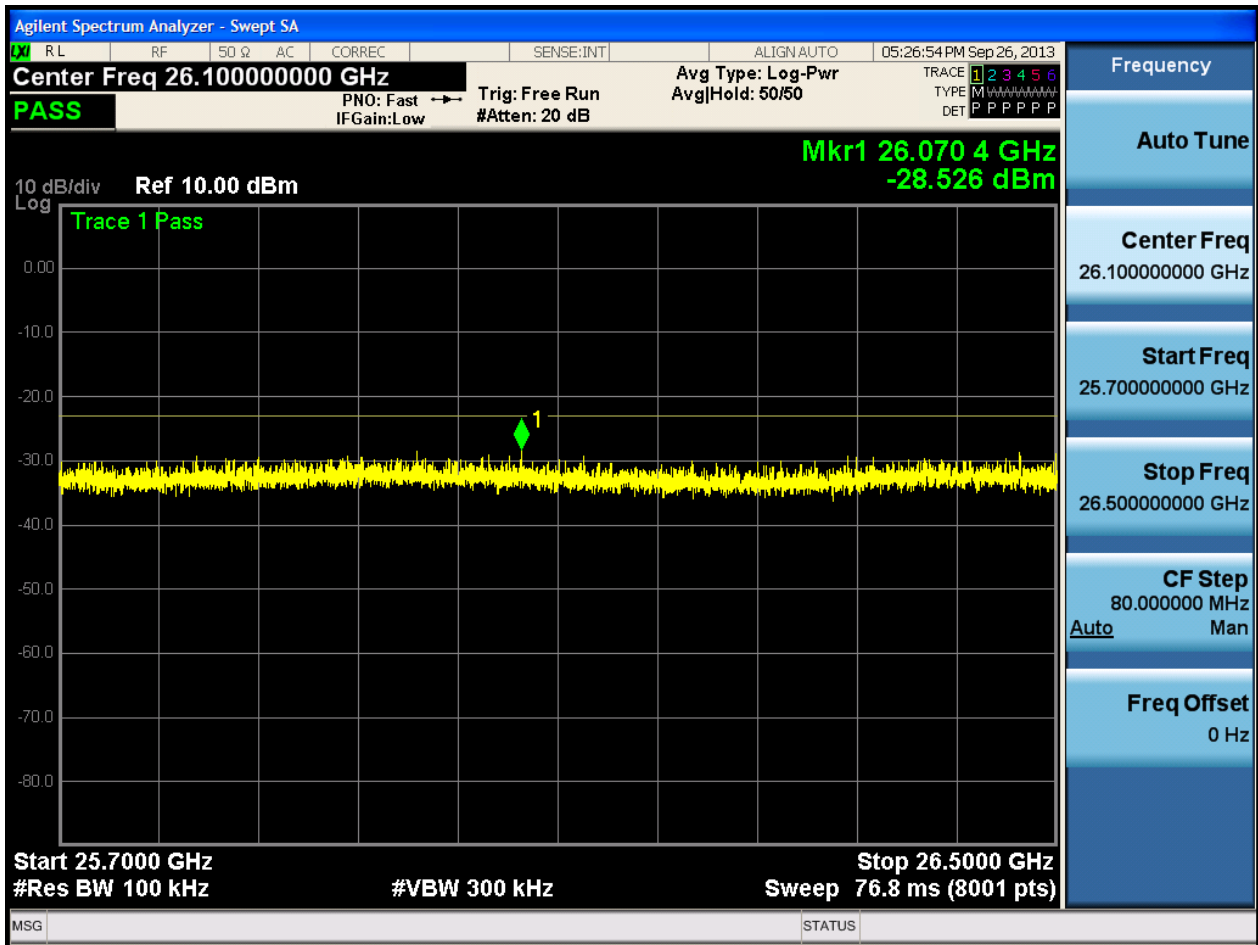






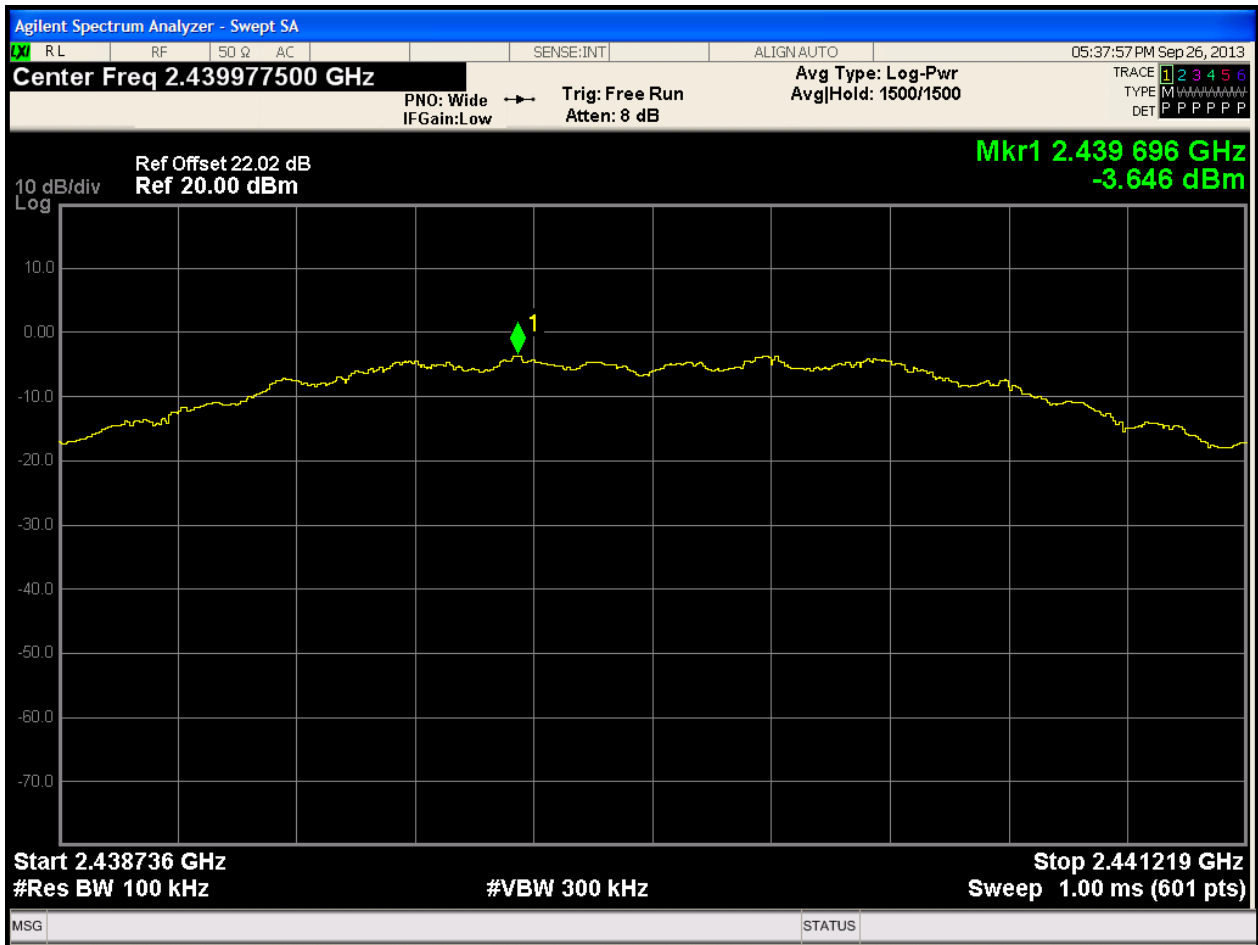




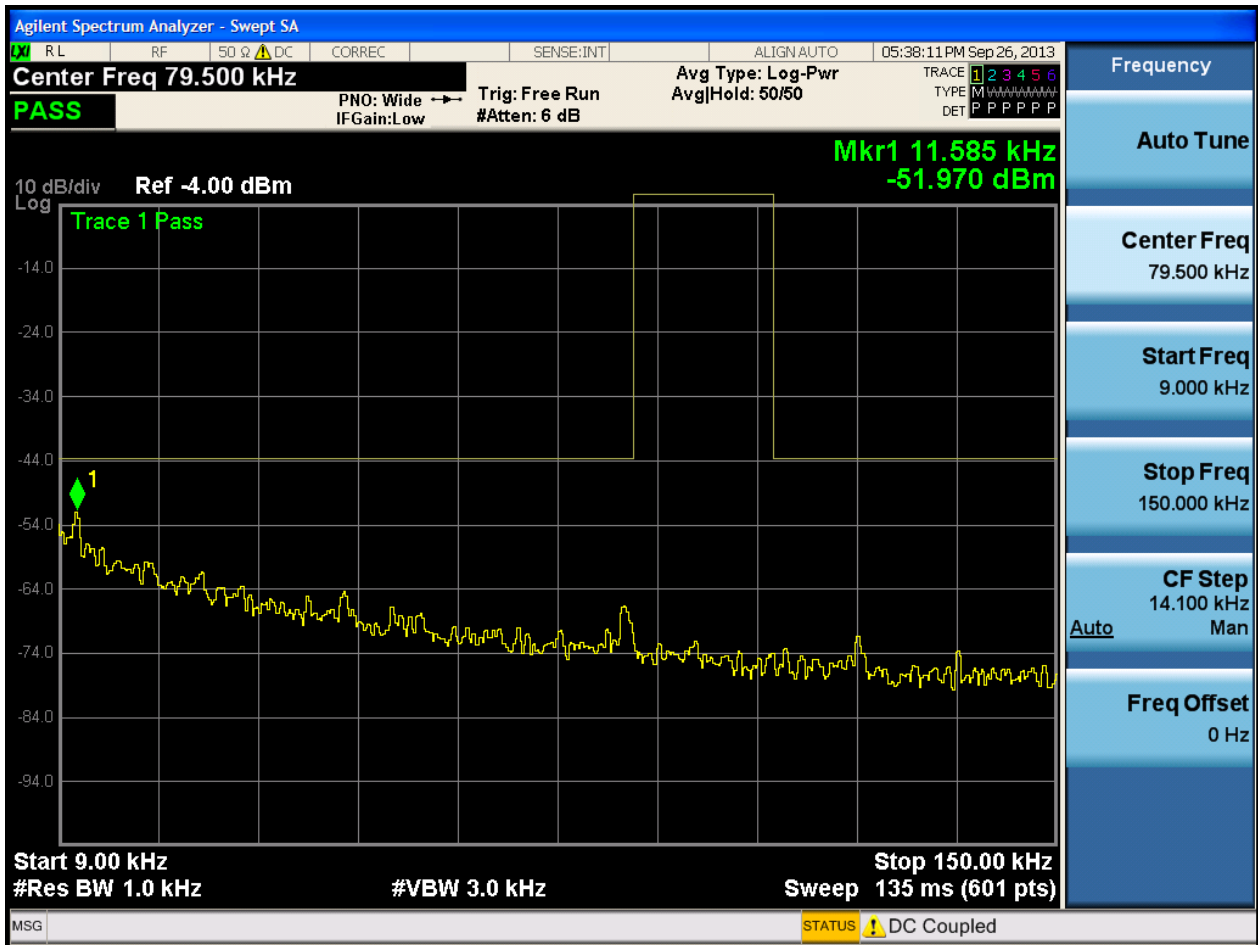


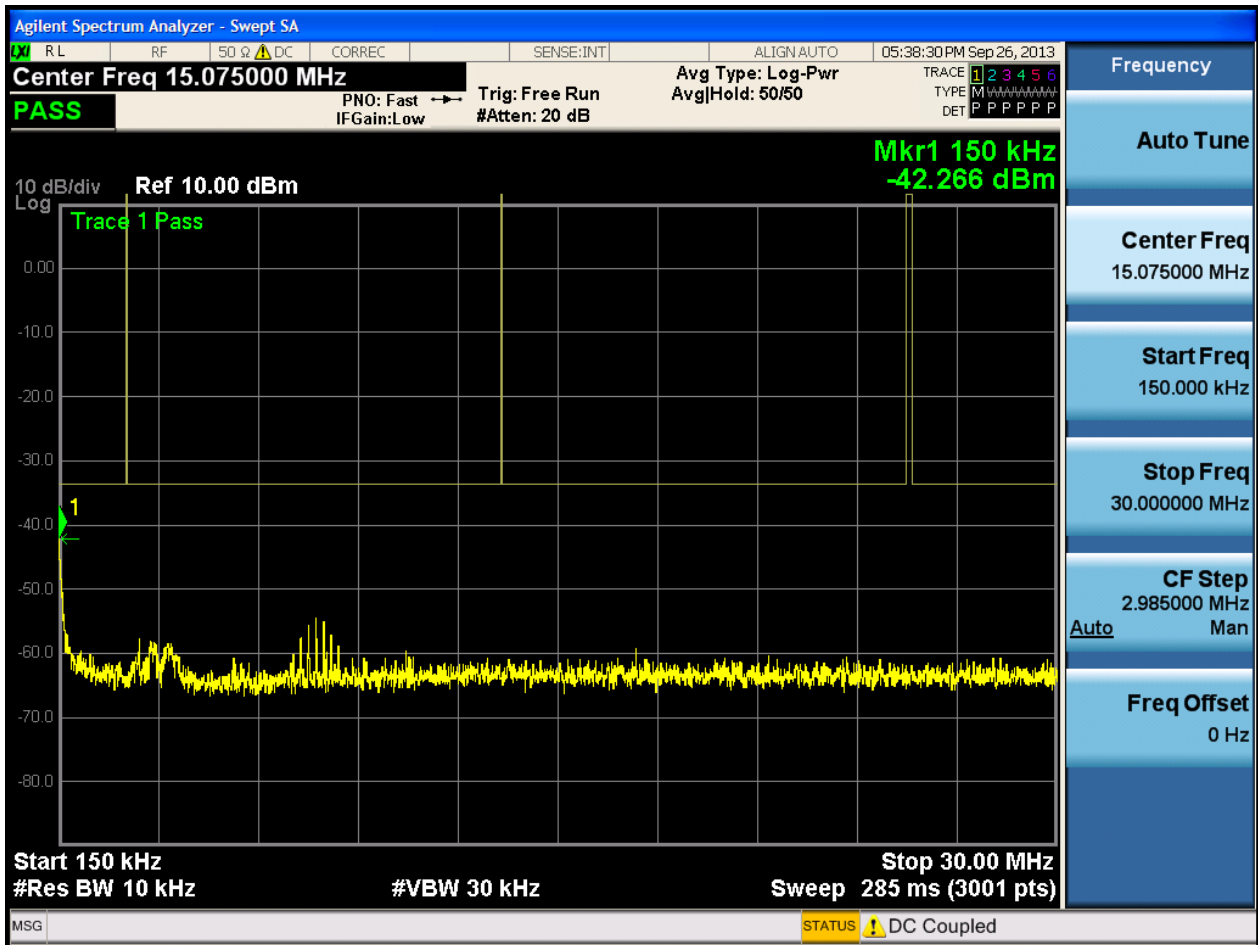
2.2 TX-M

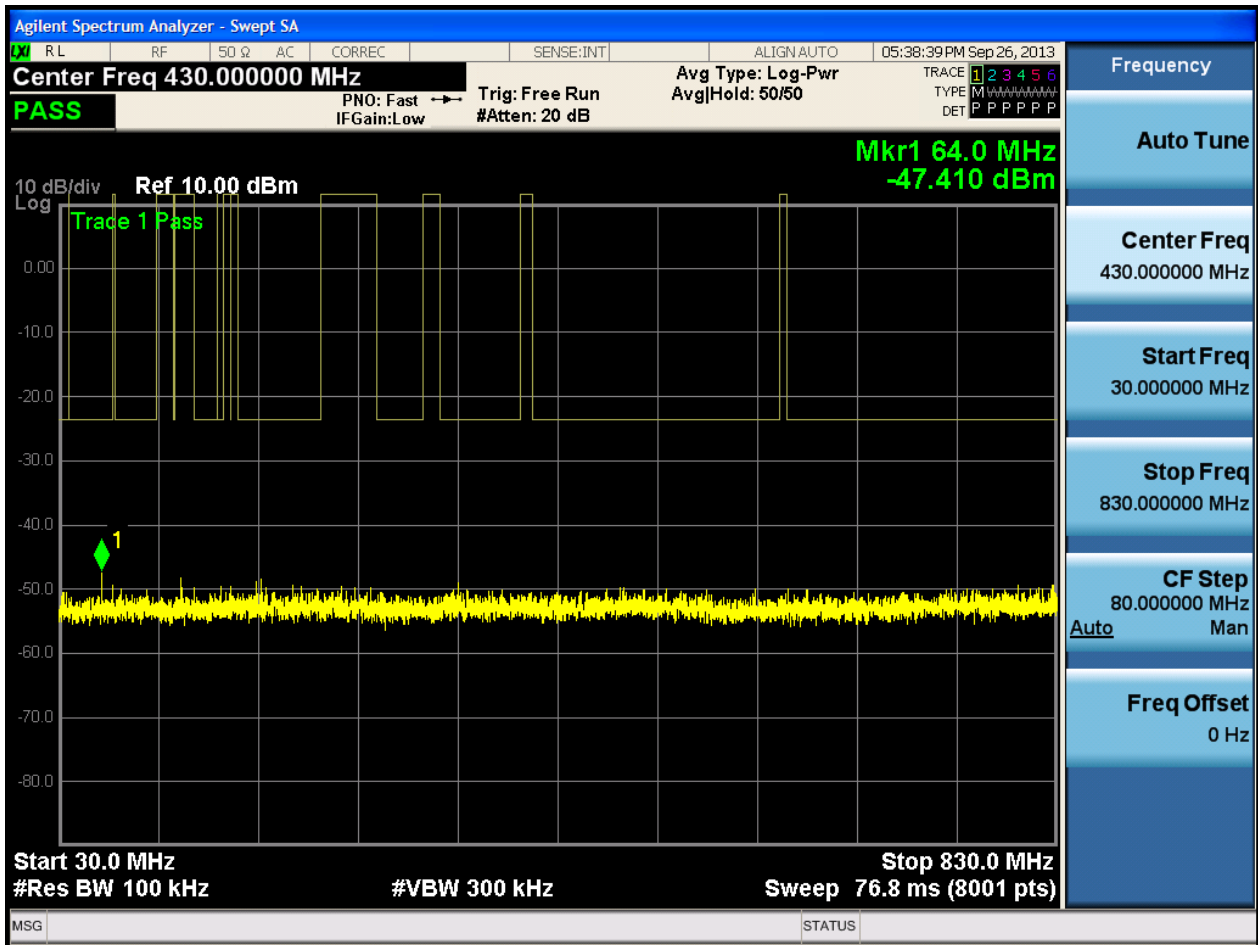
2.2.1 Pref

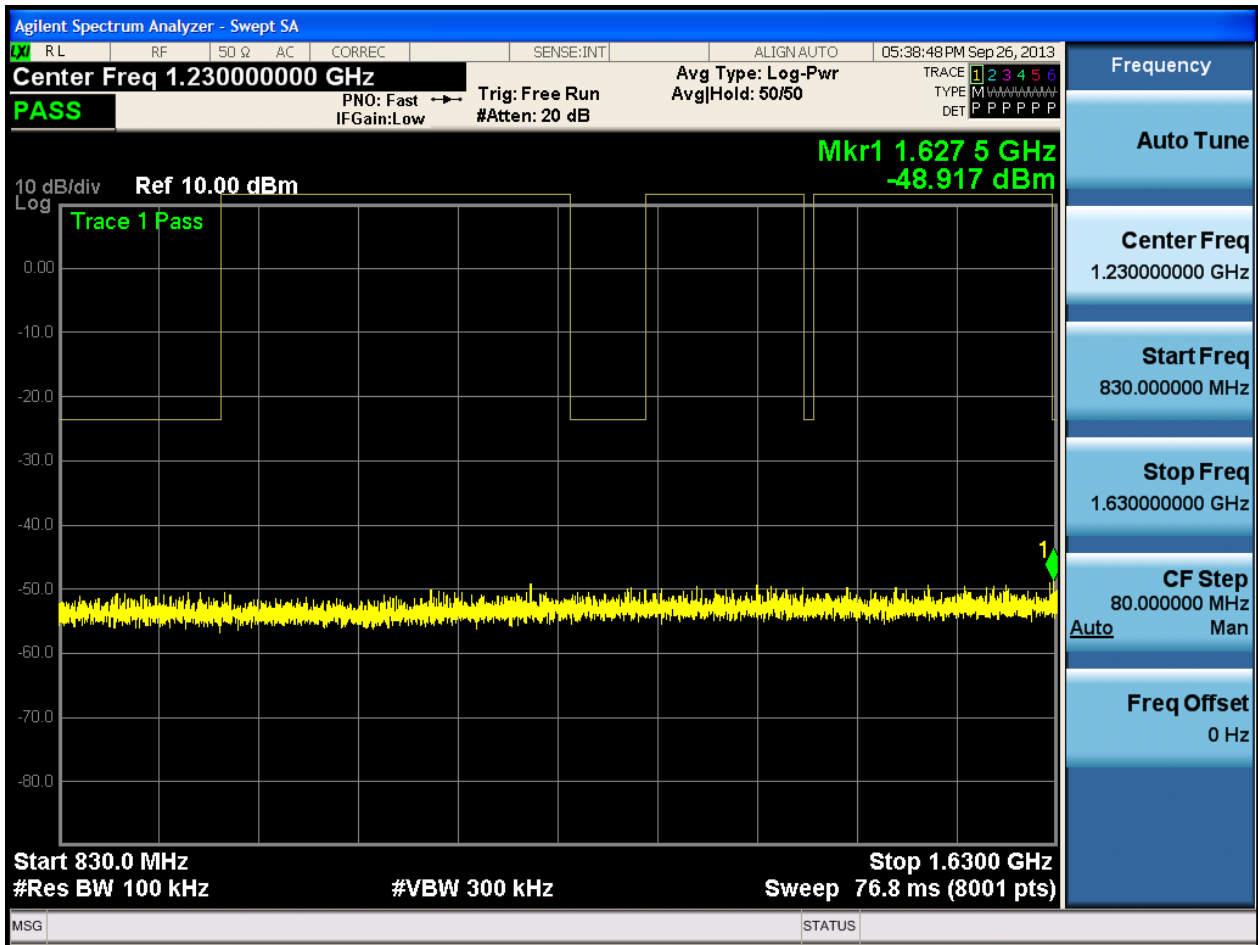


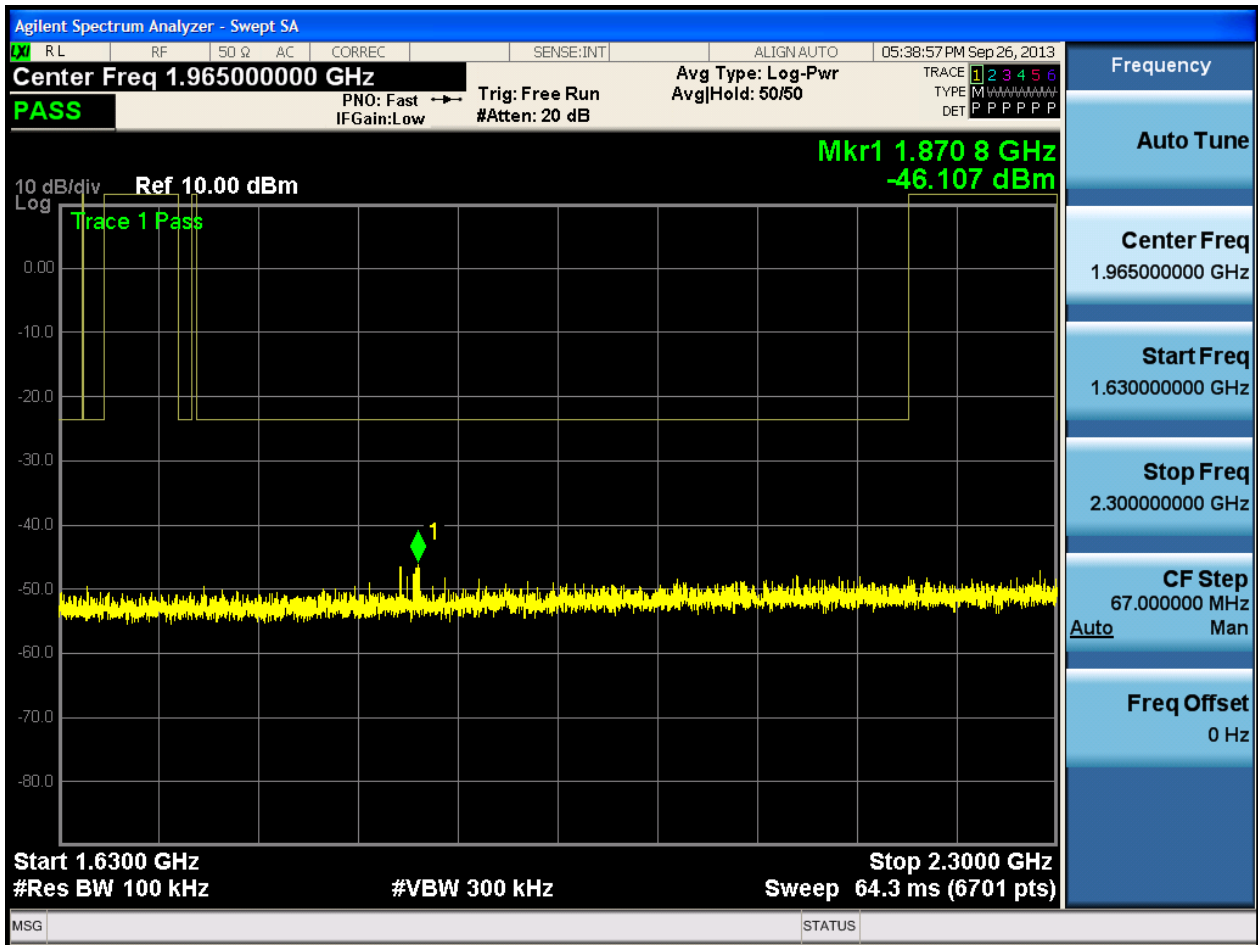
2.2.2 Puw

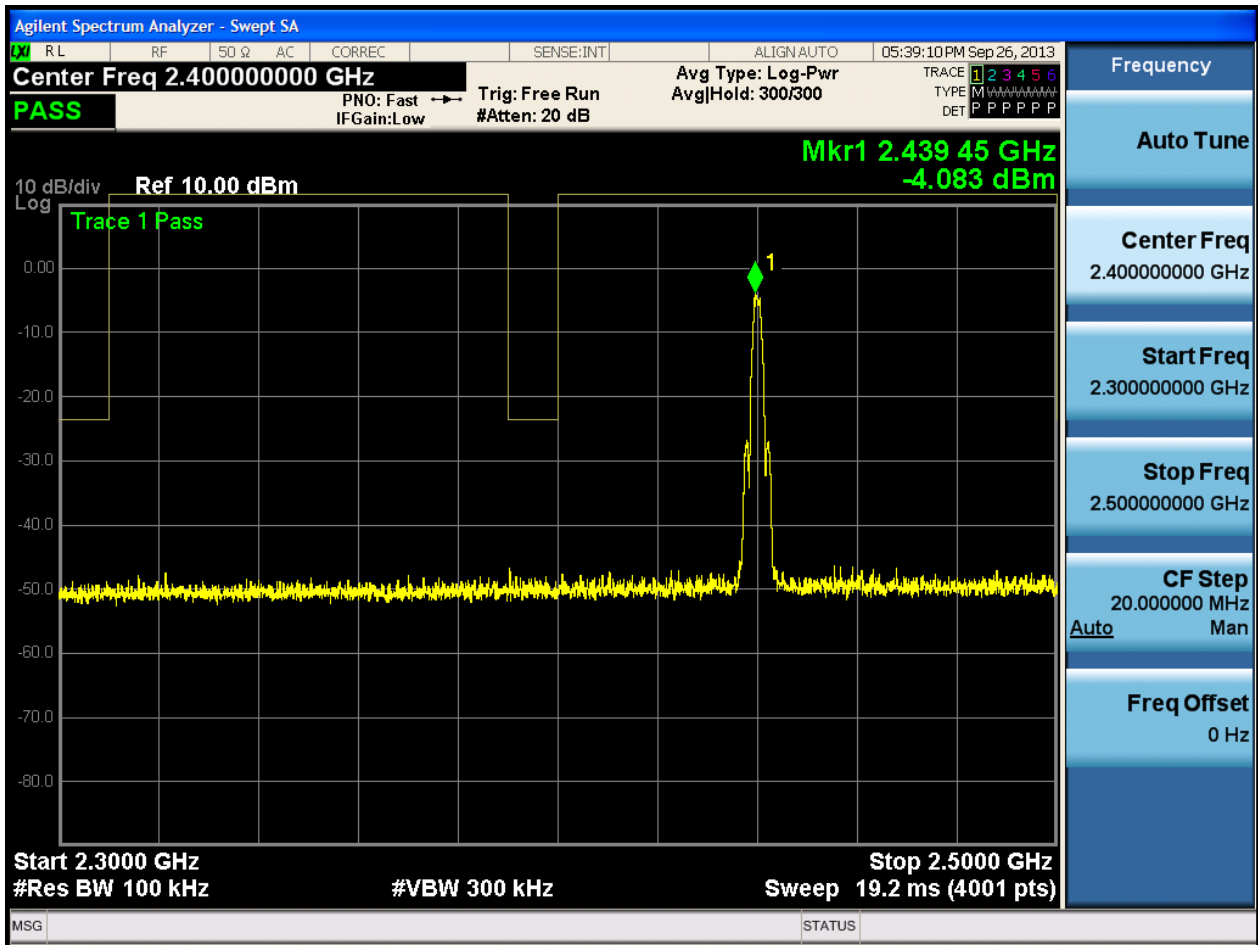


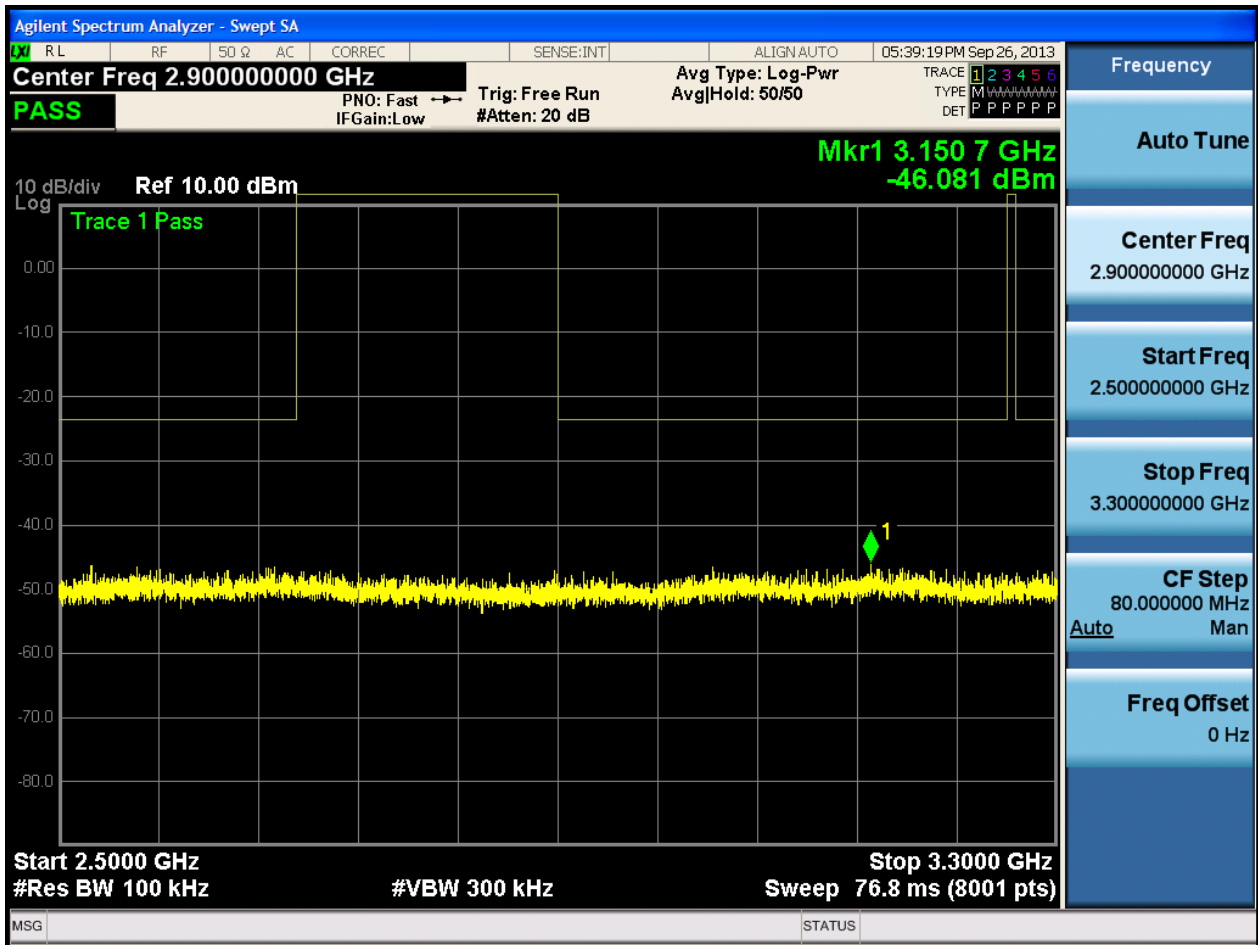


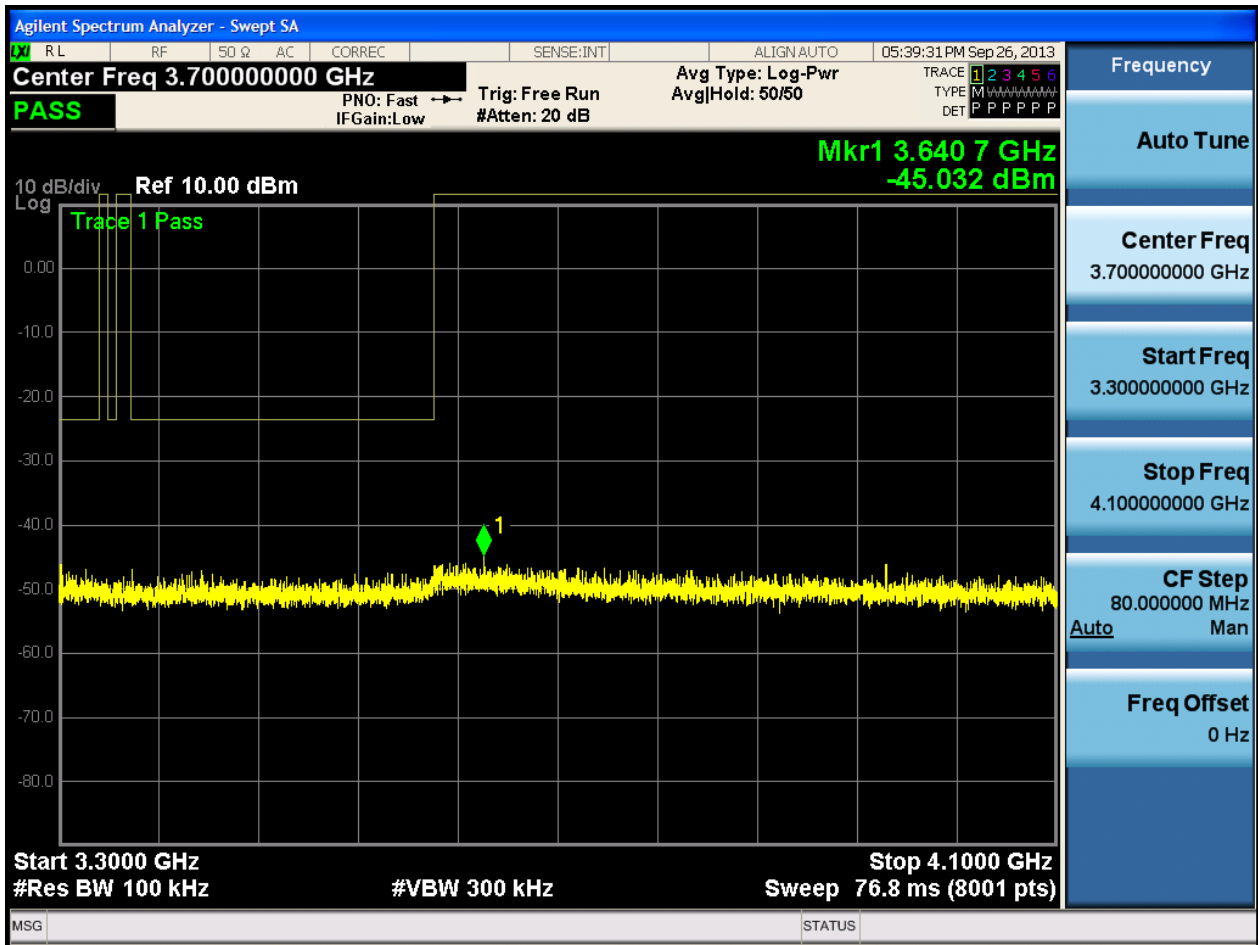


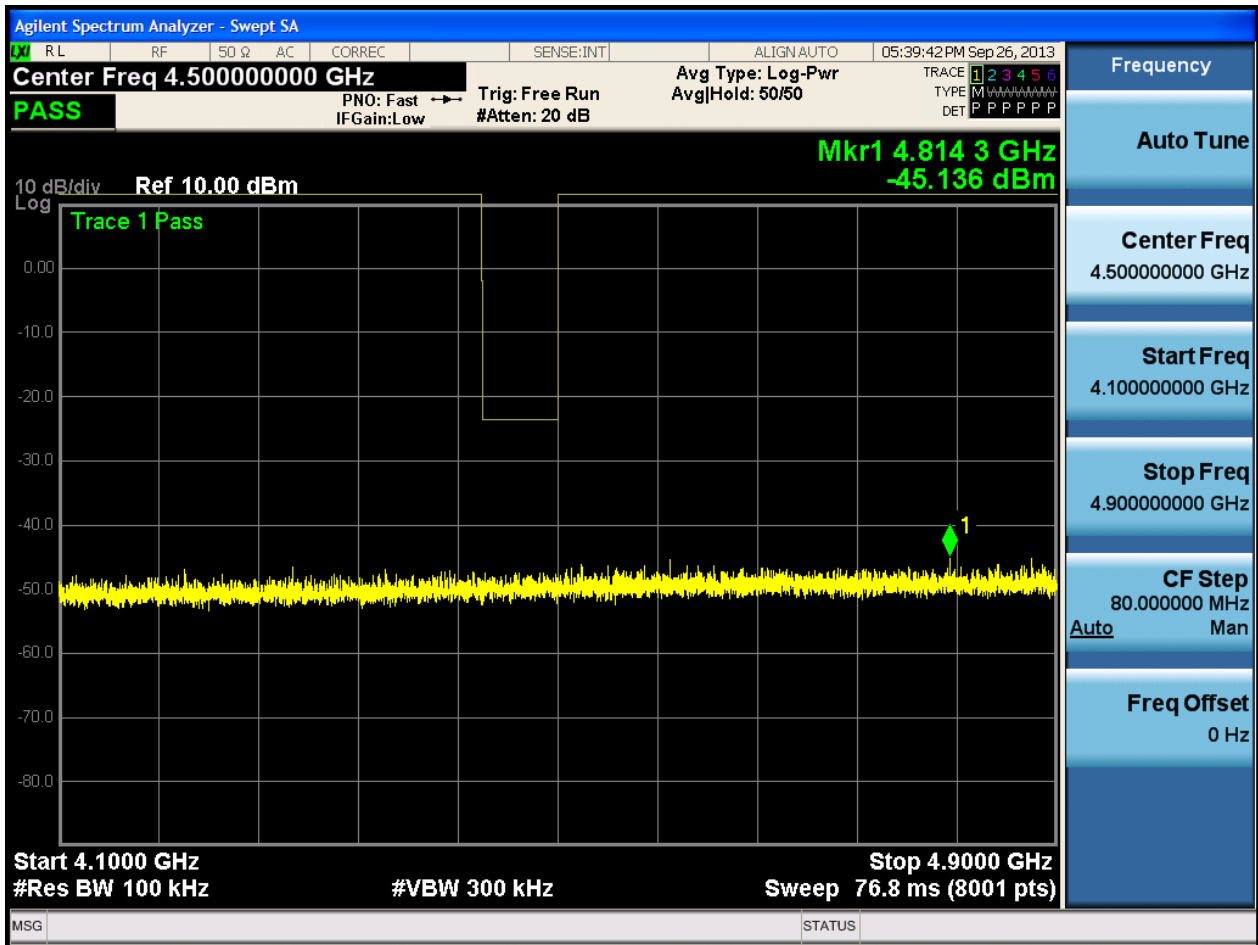


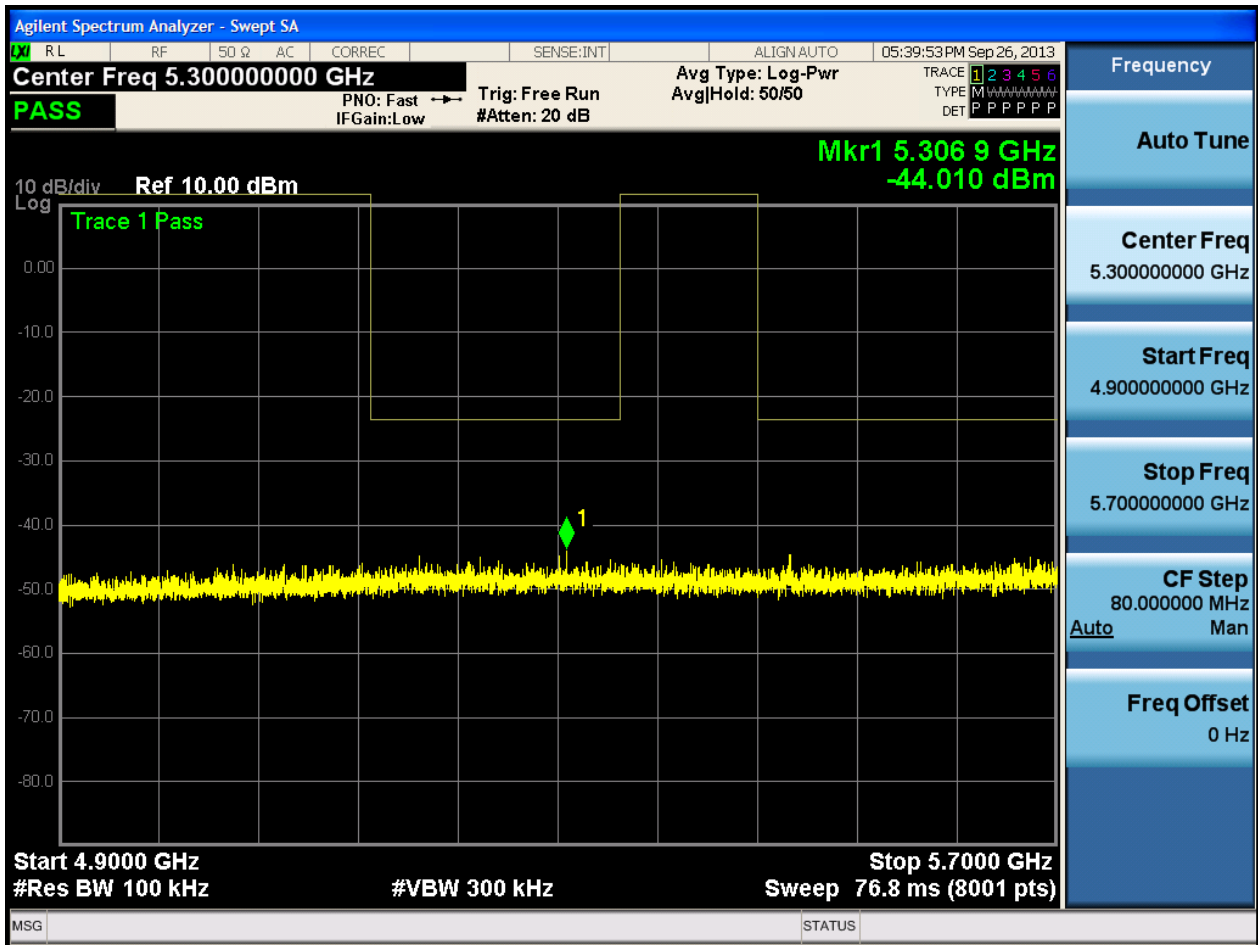


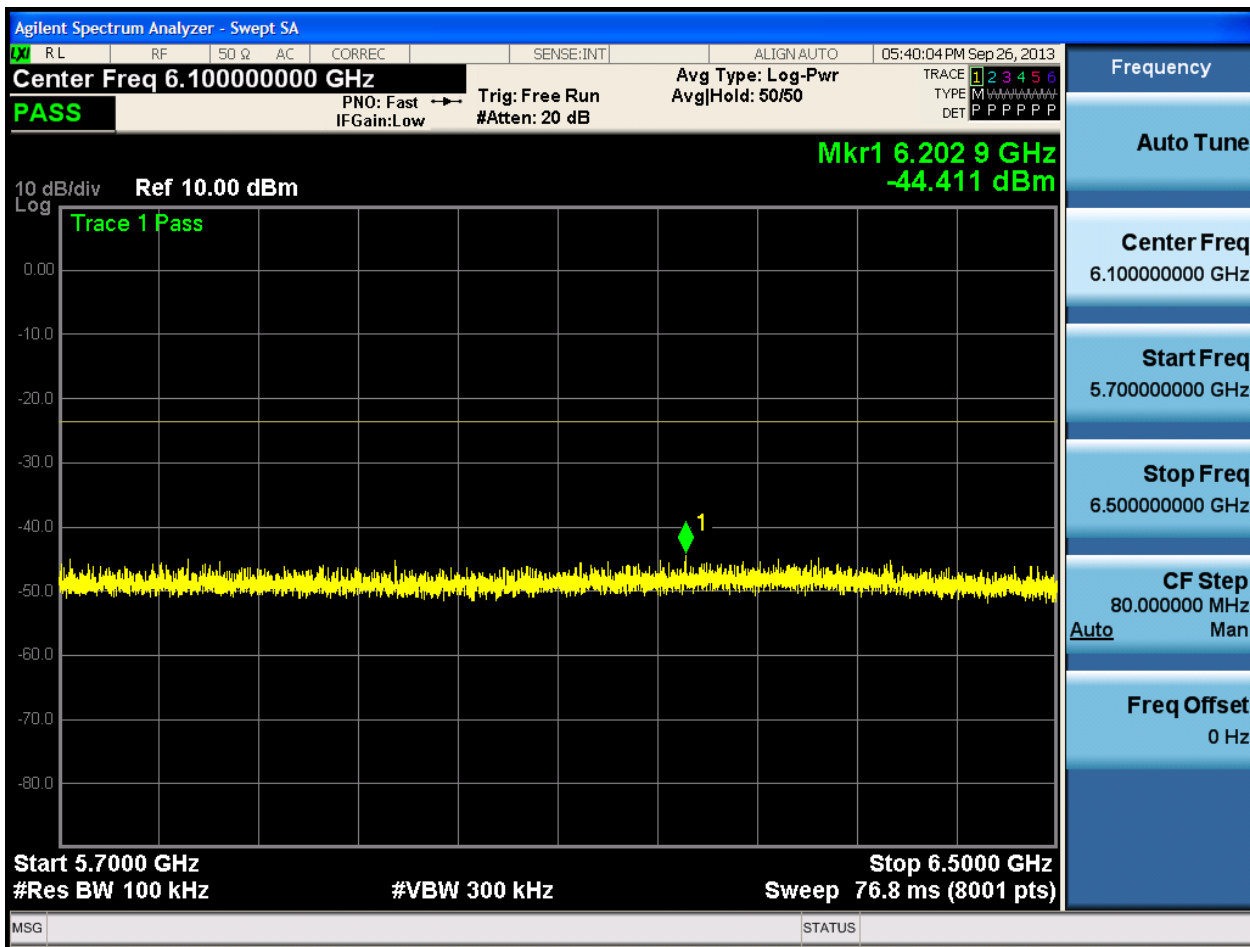


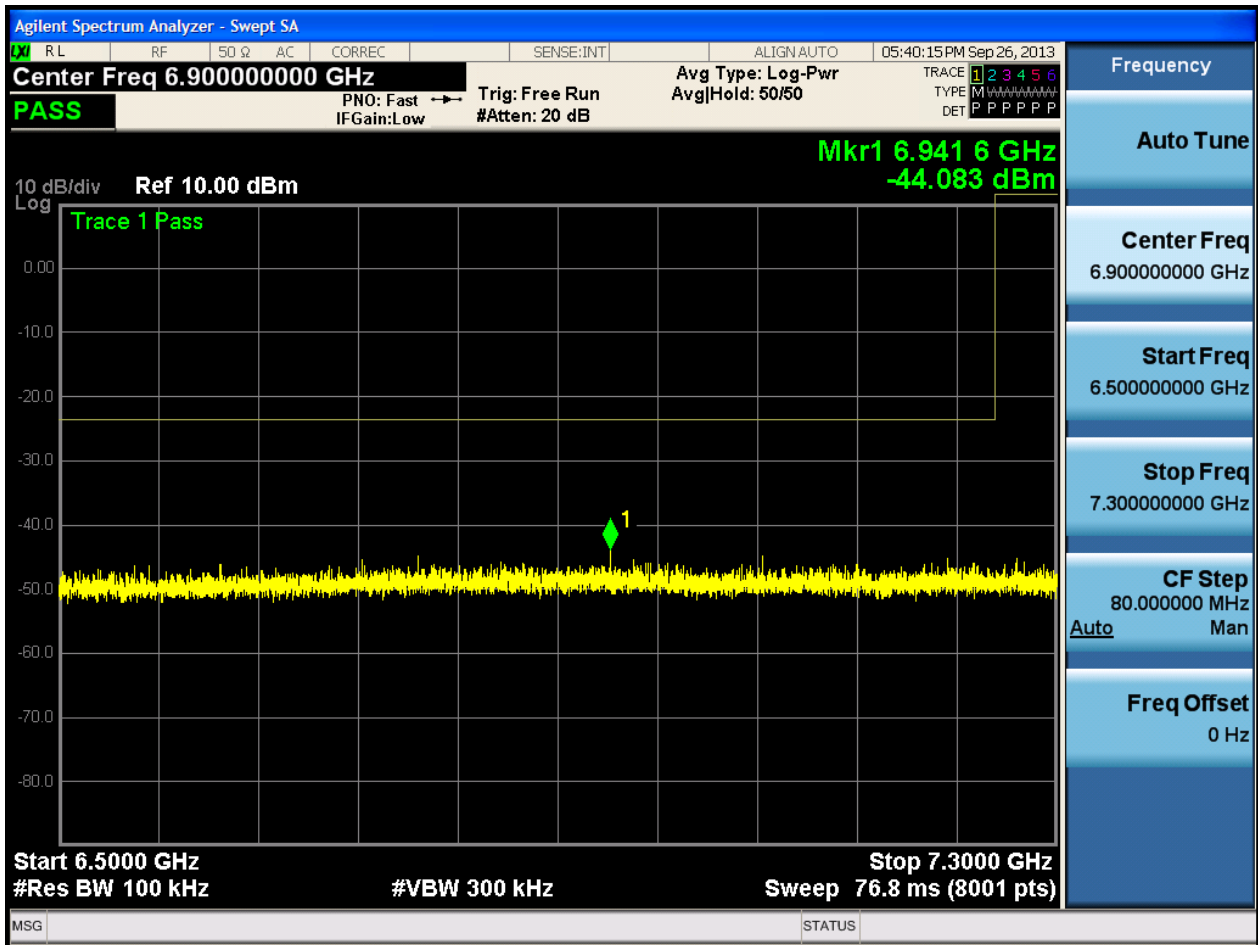


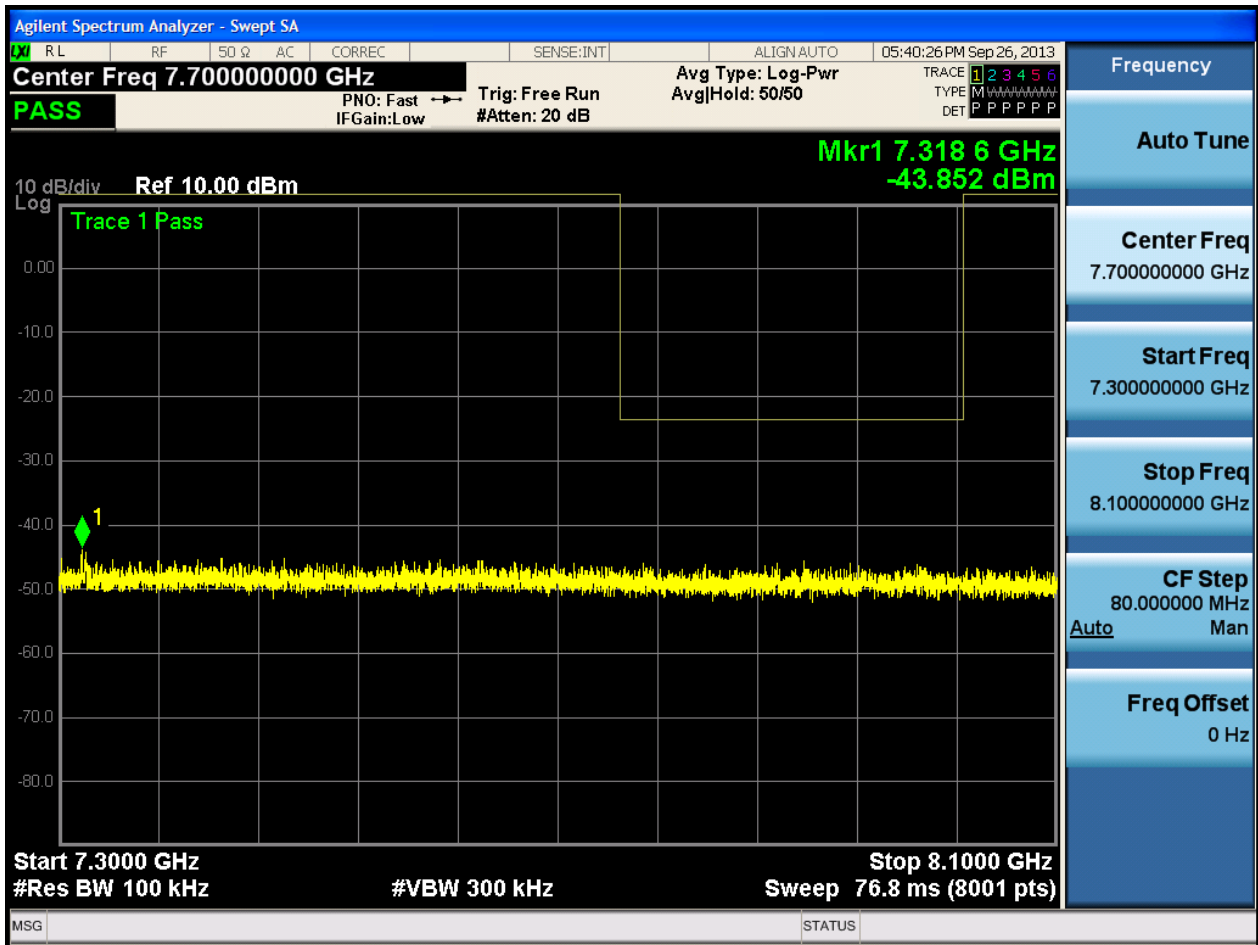


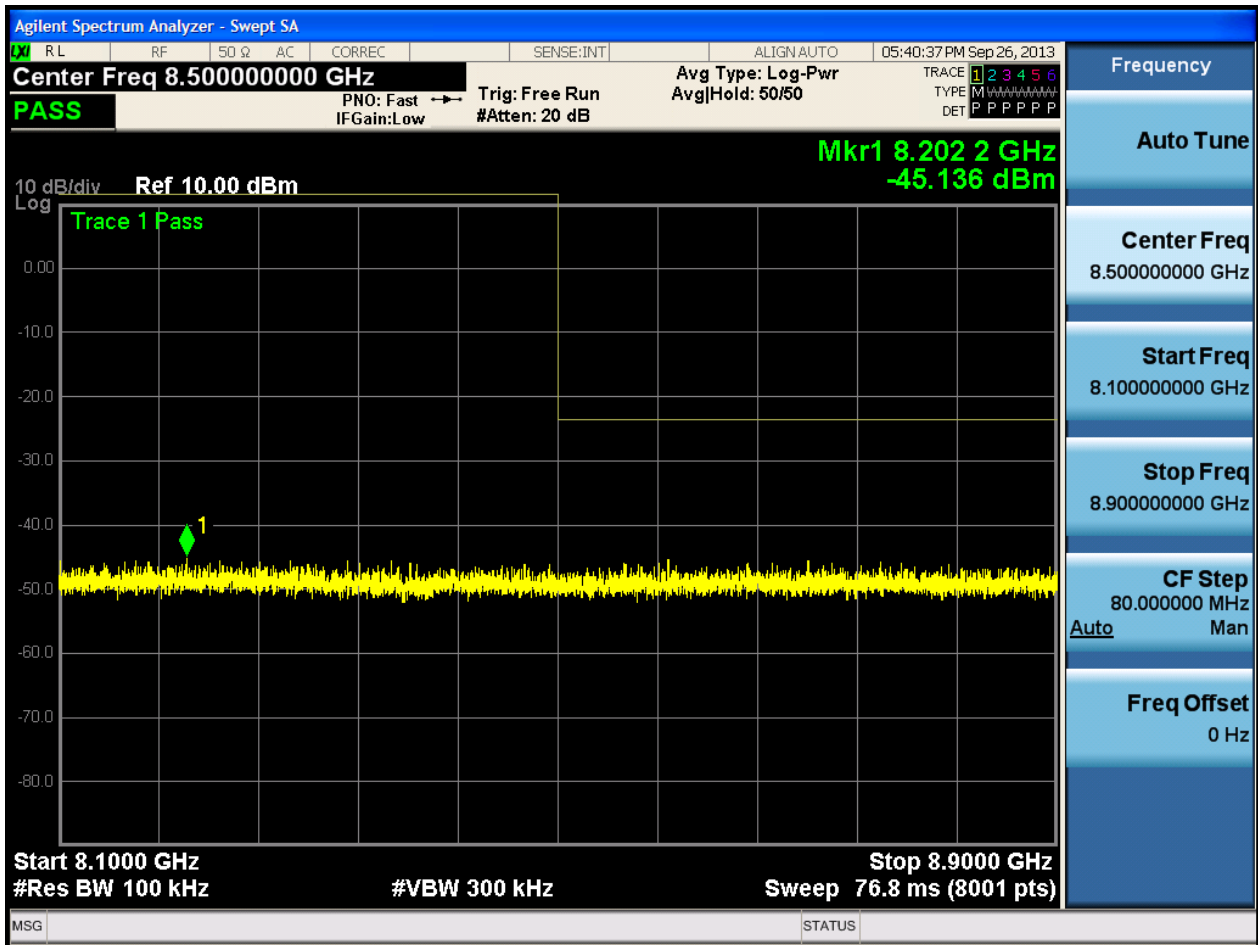


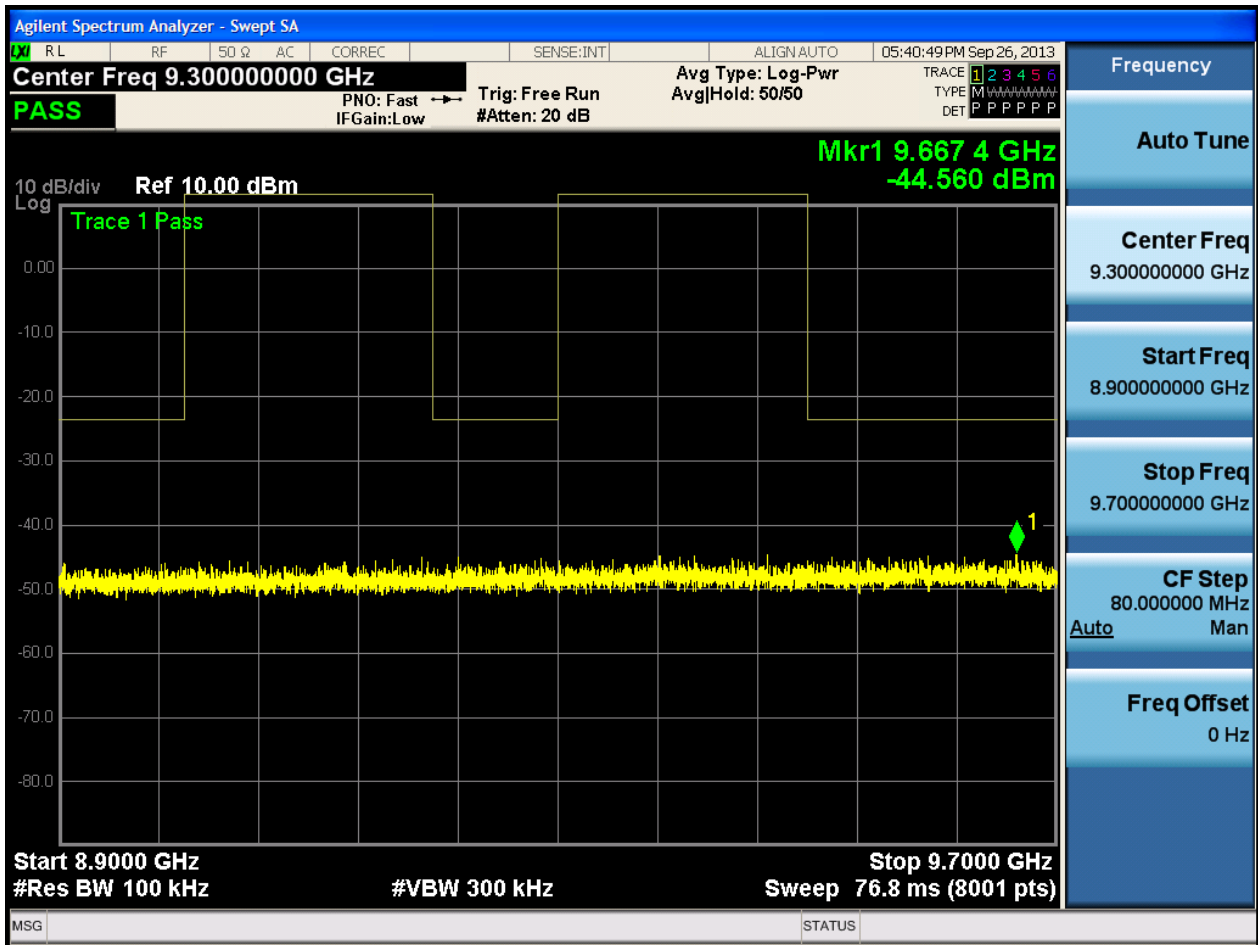


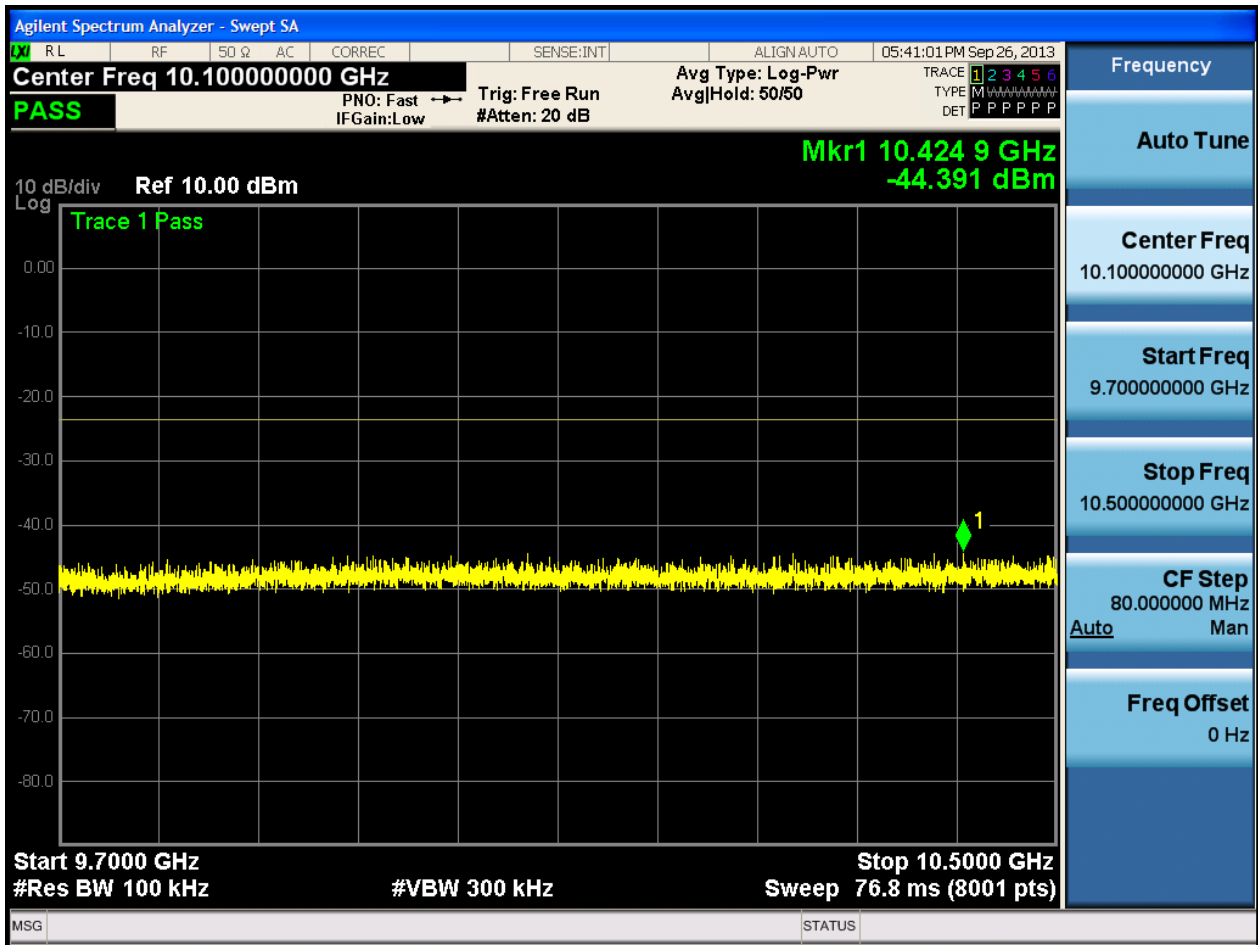


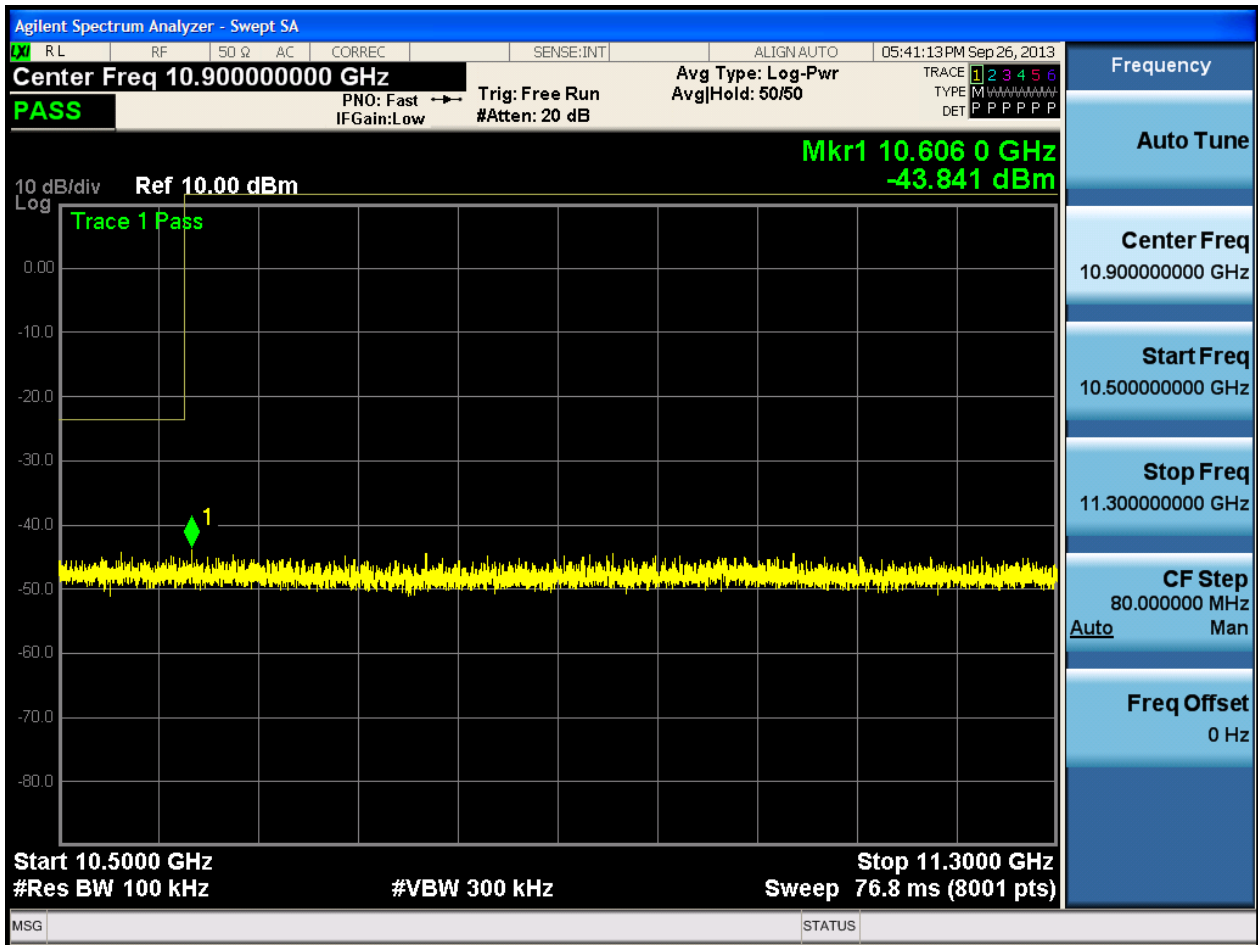


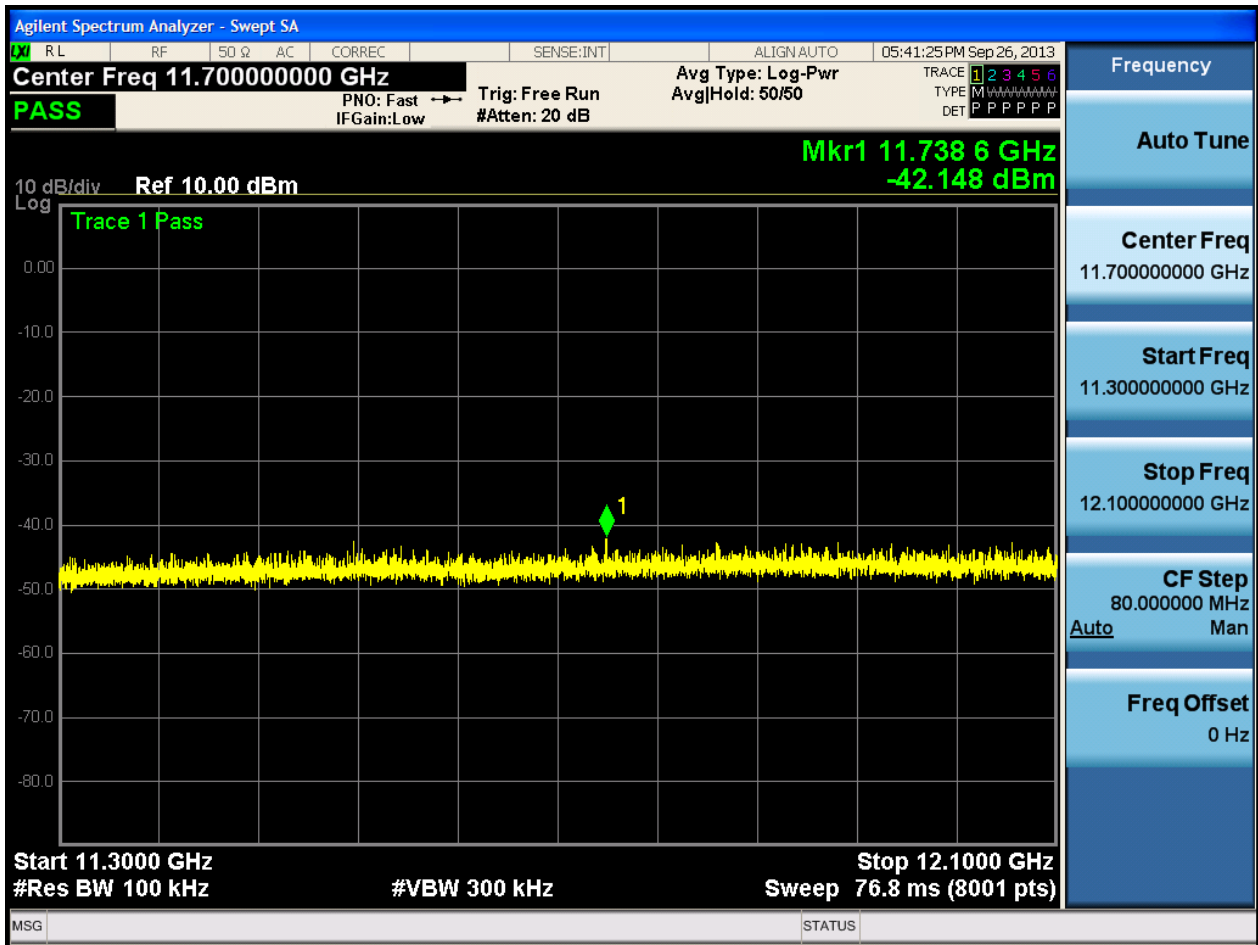


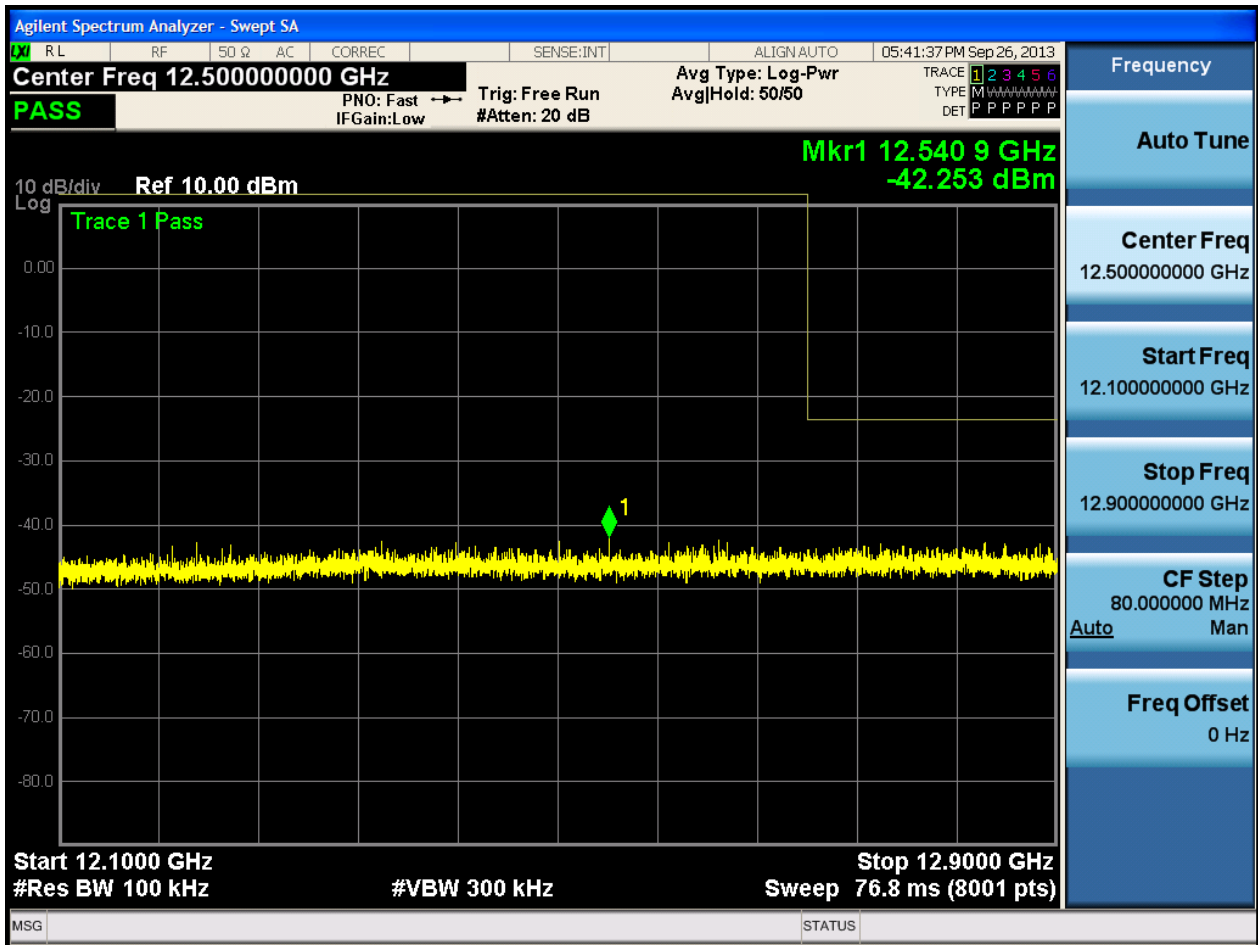


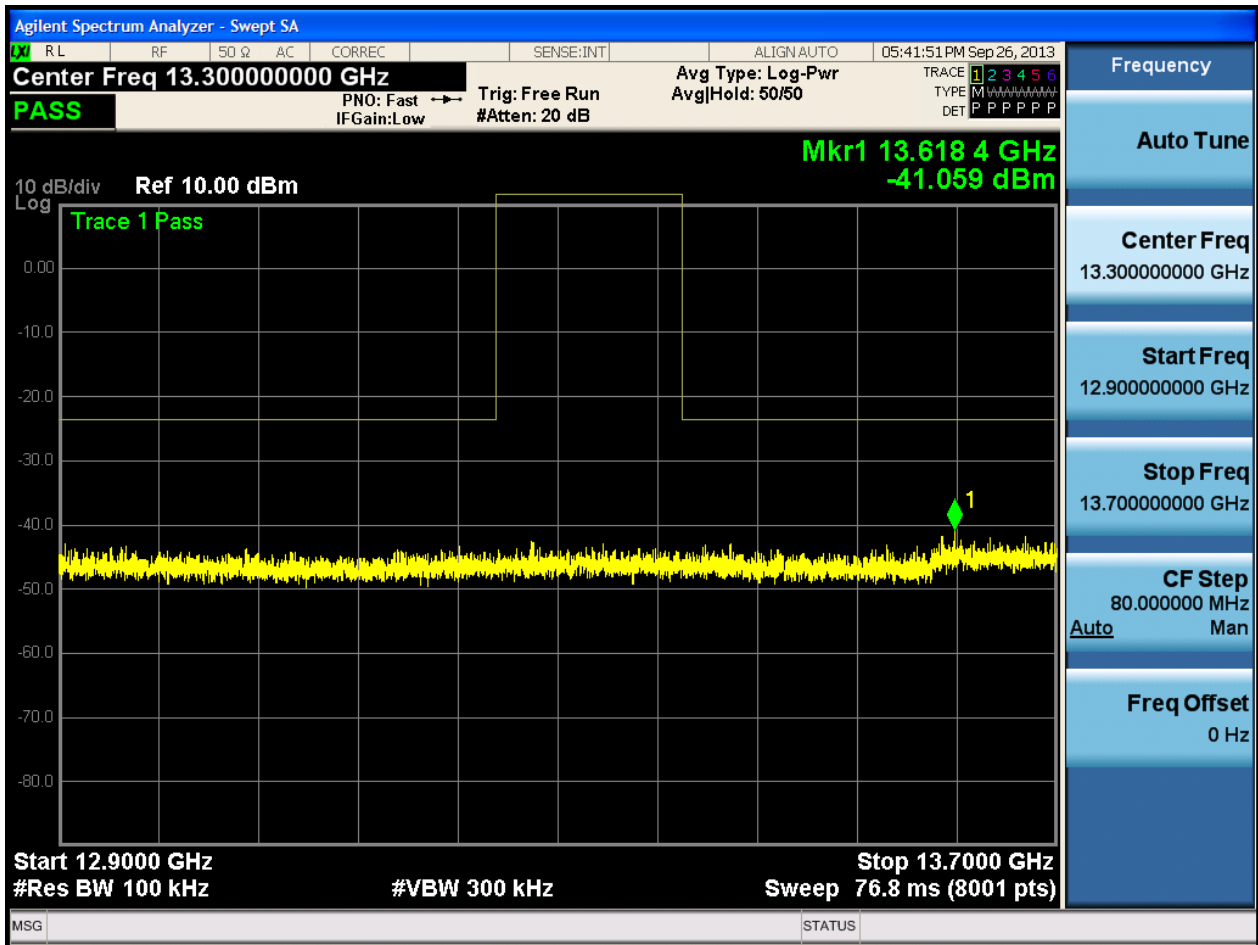


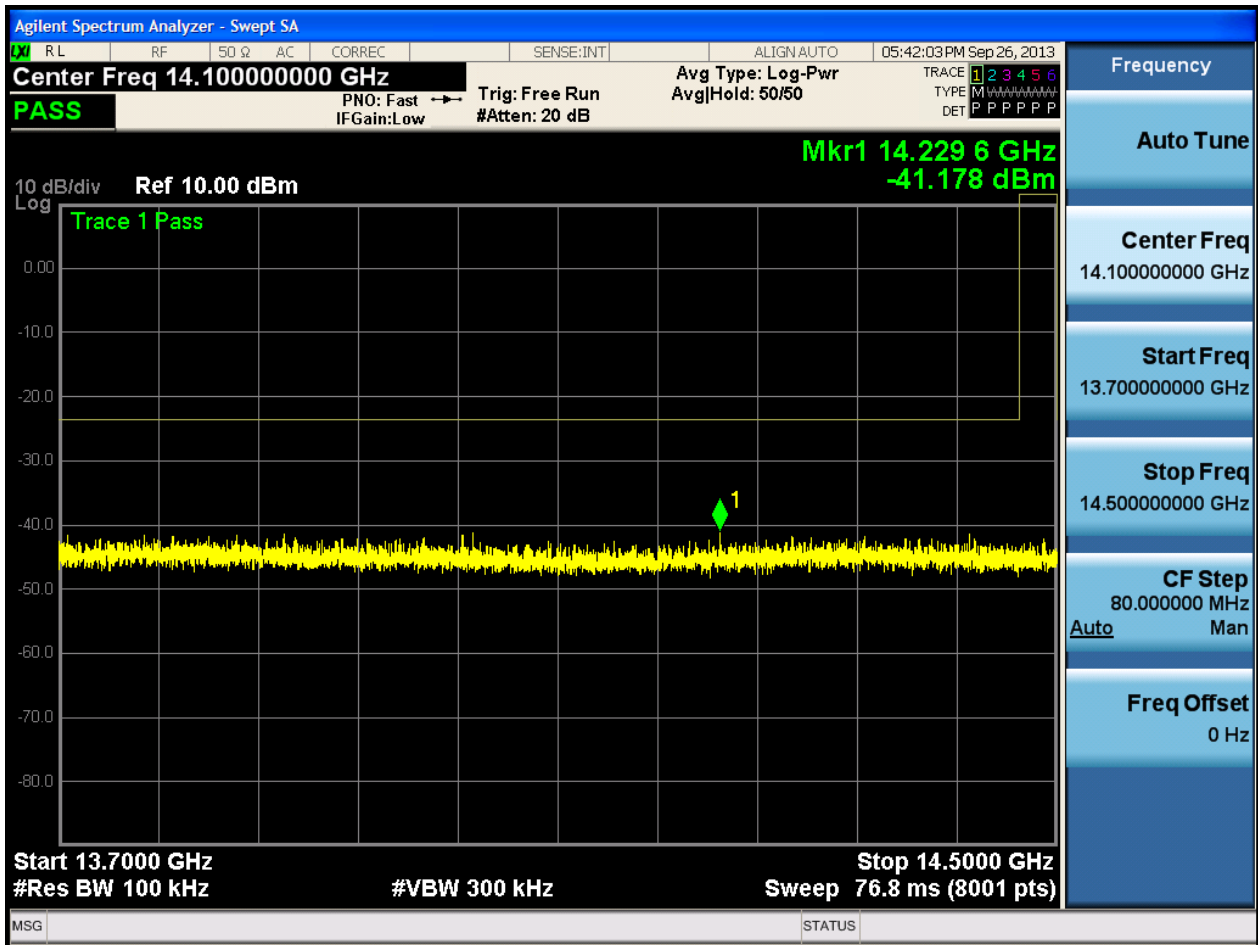


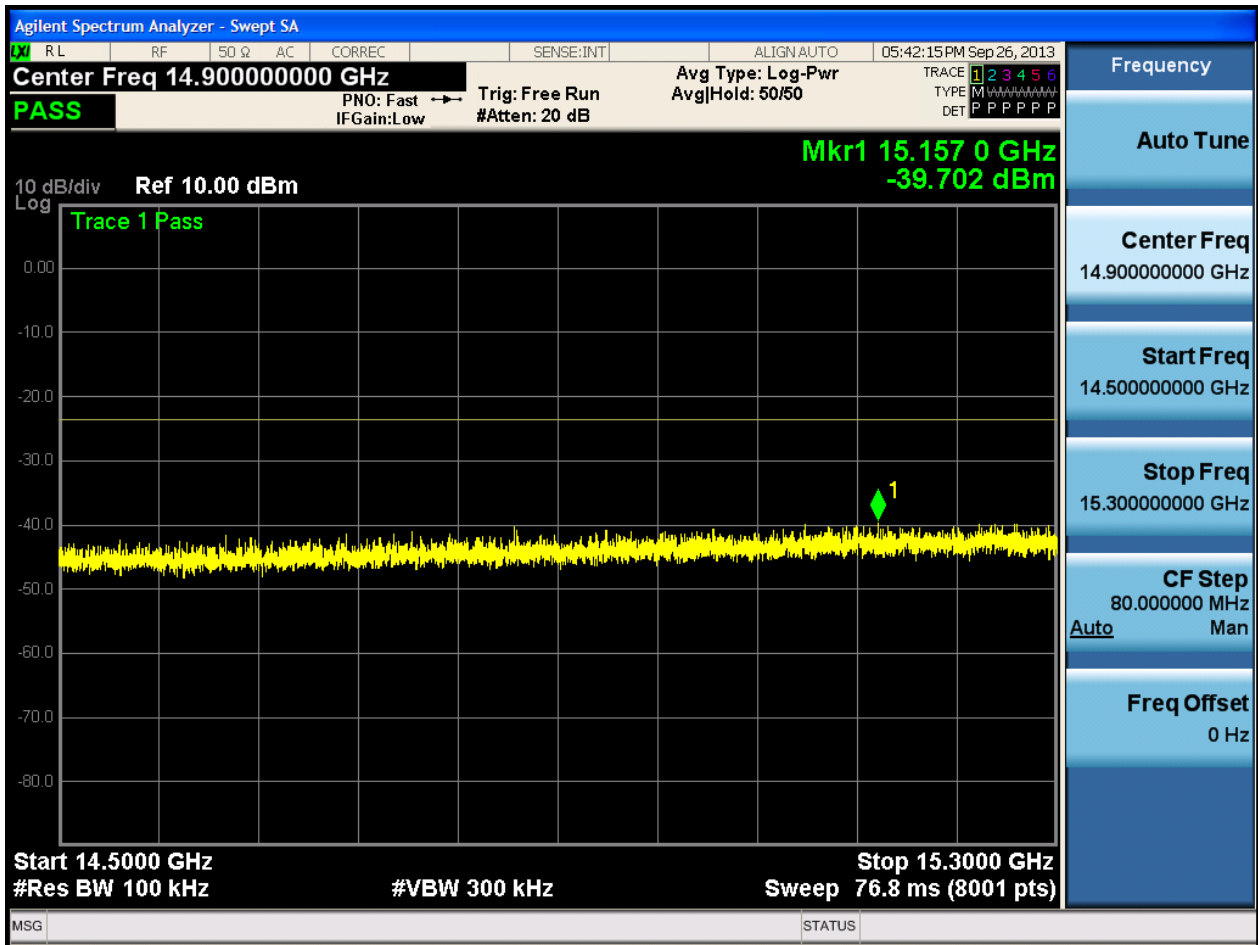


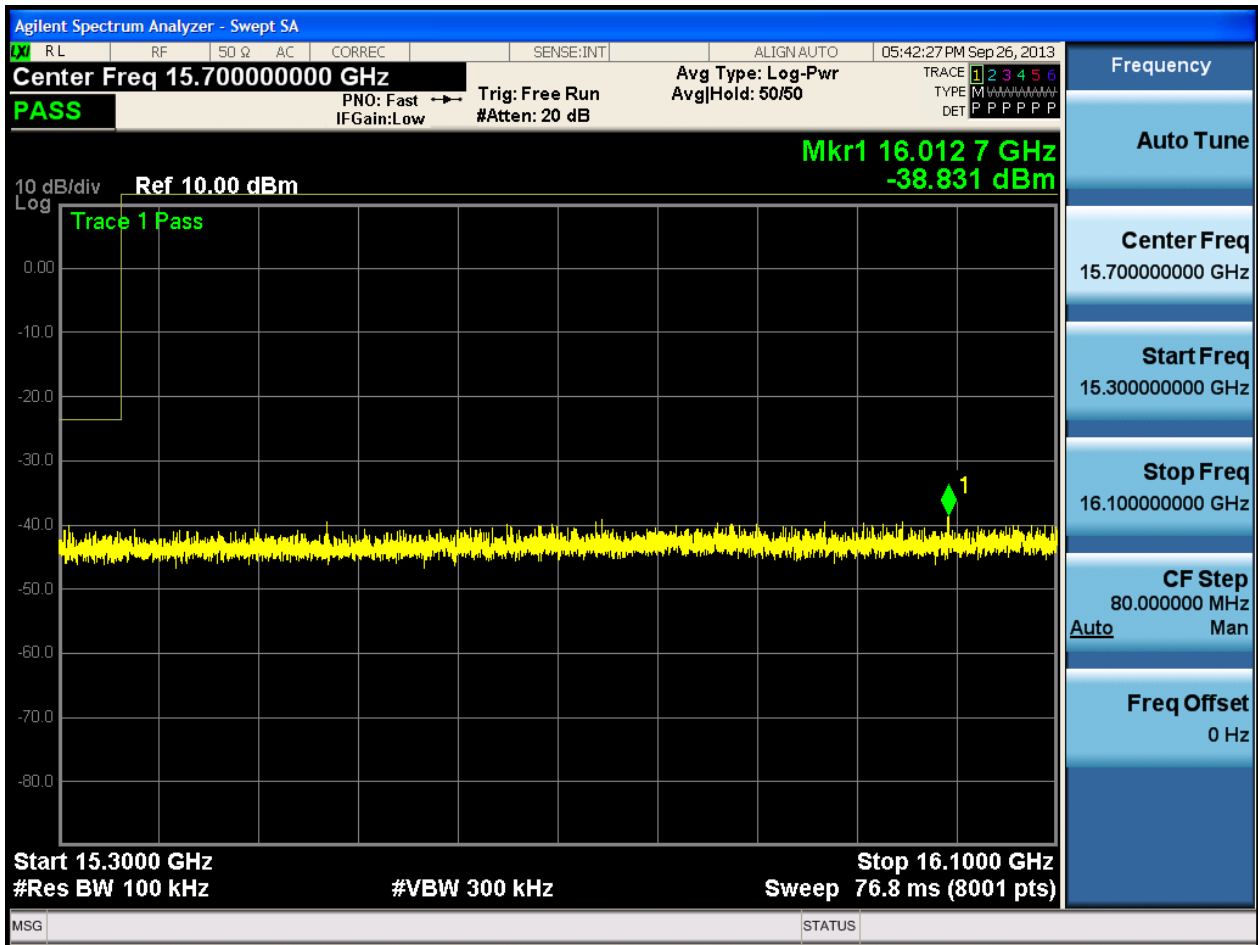


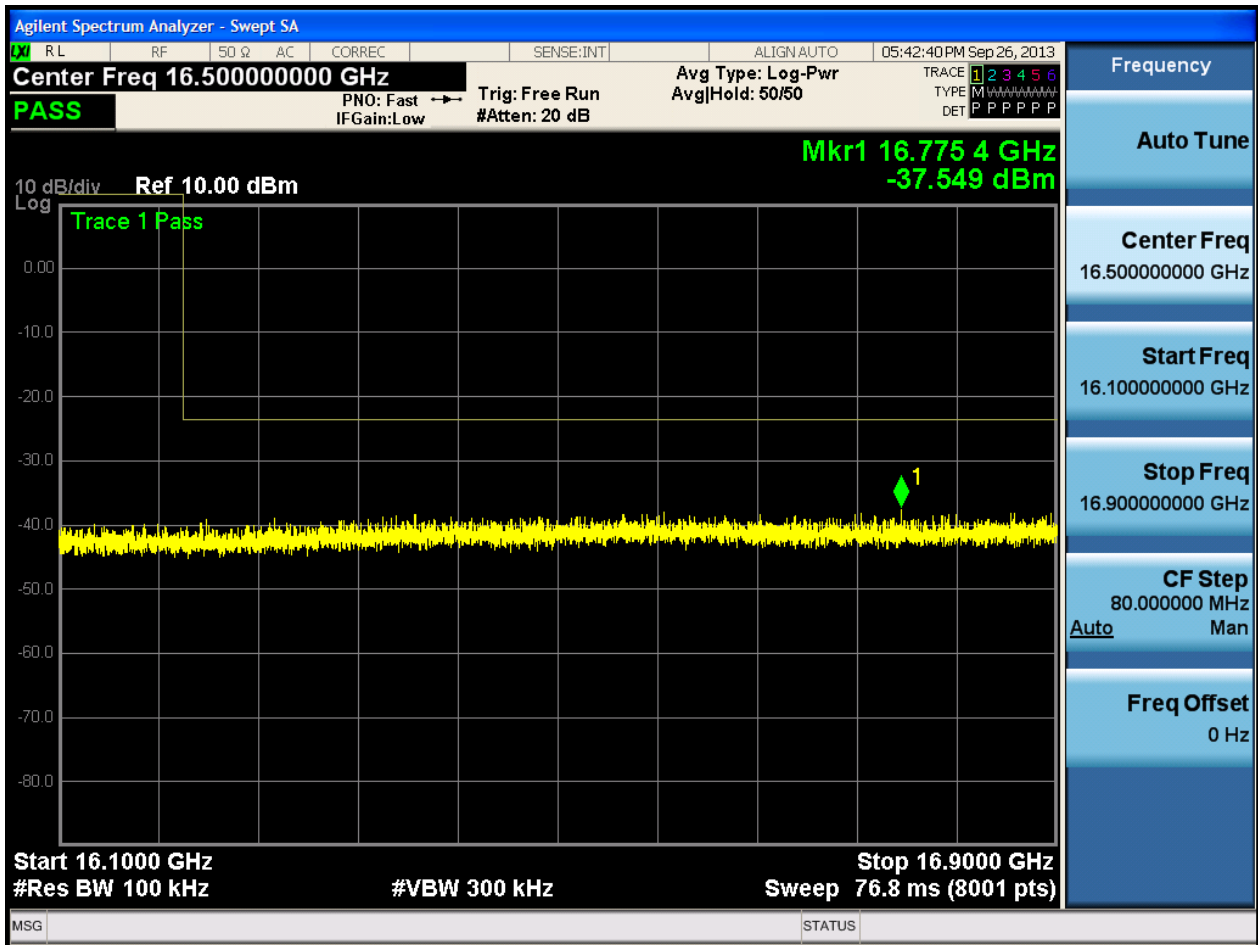


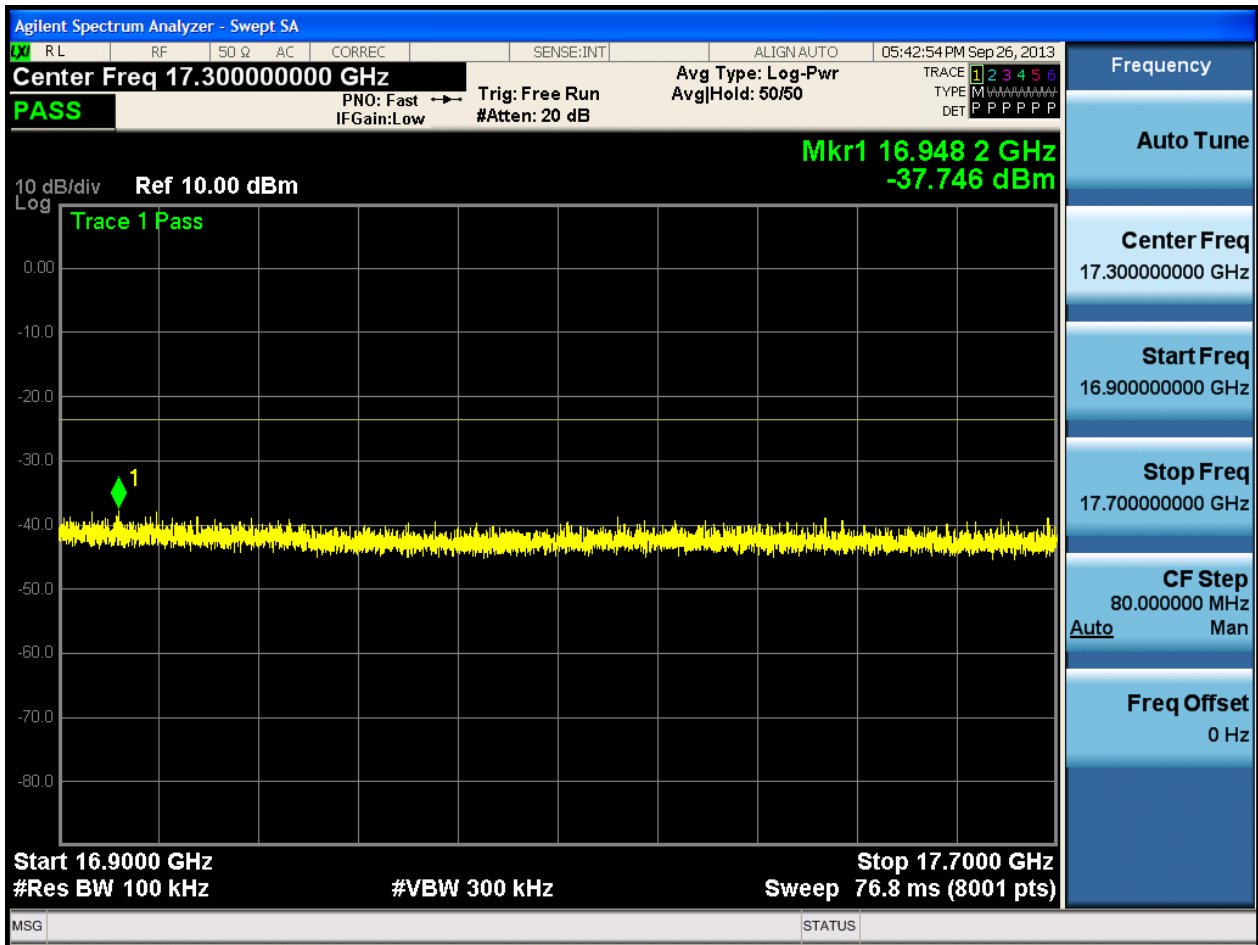


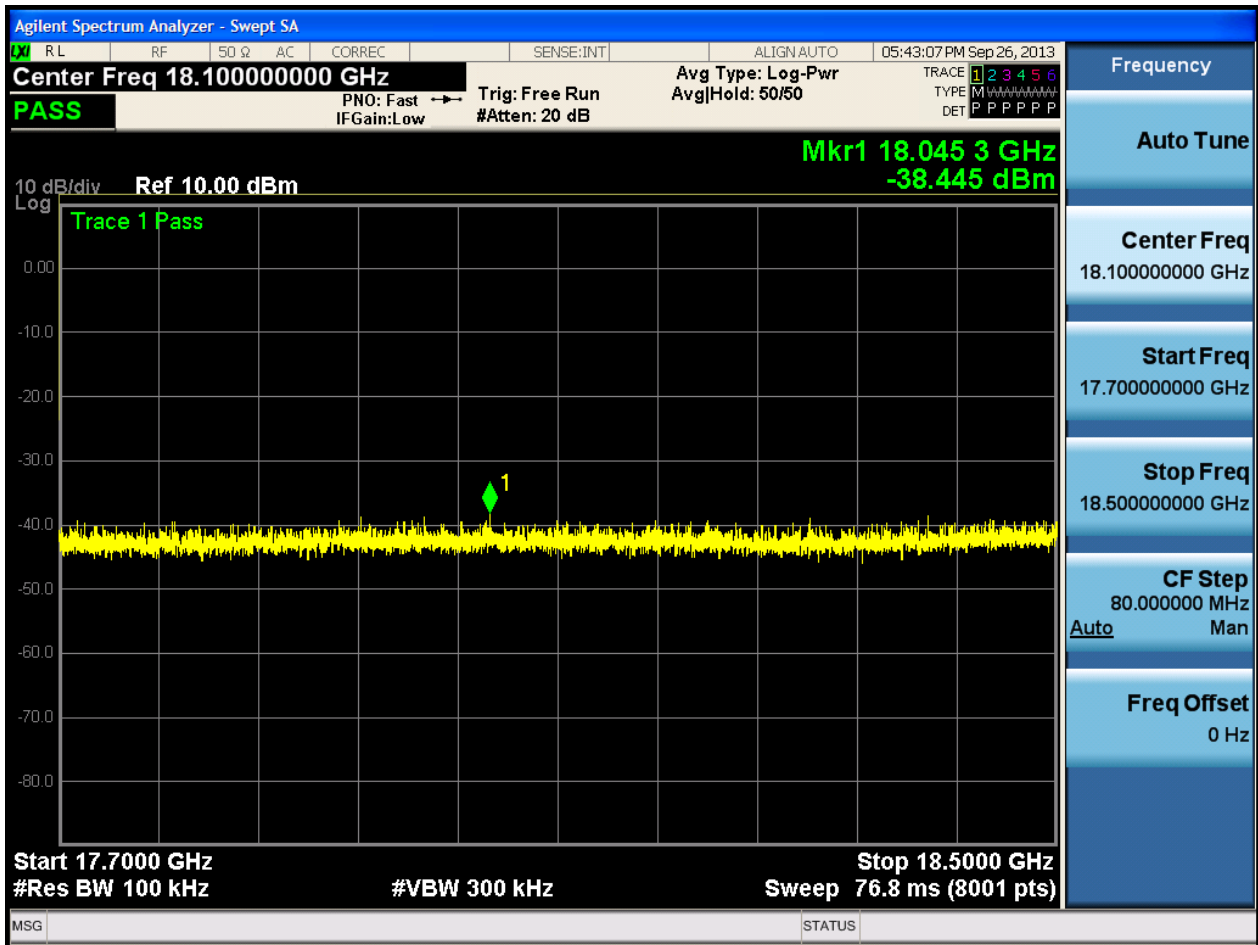


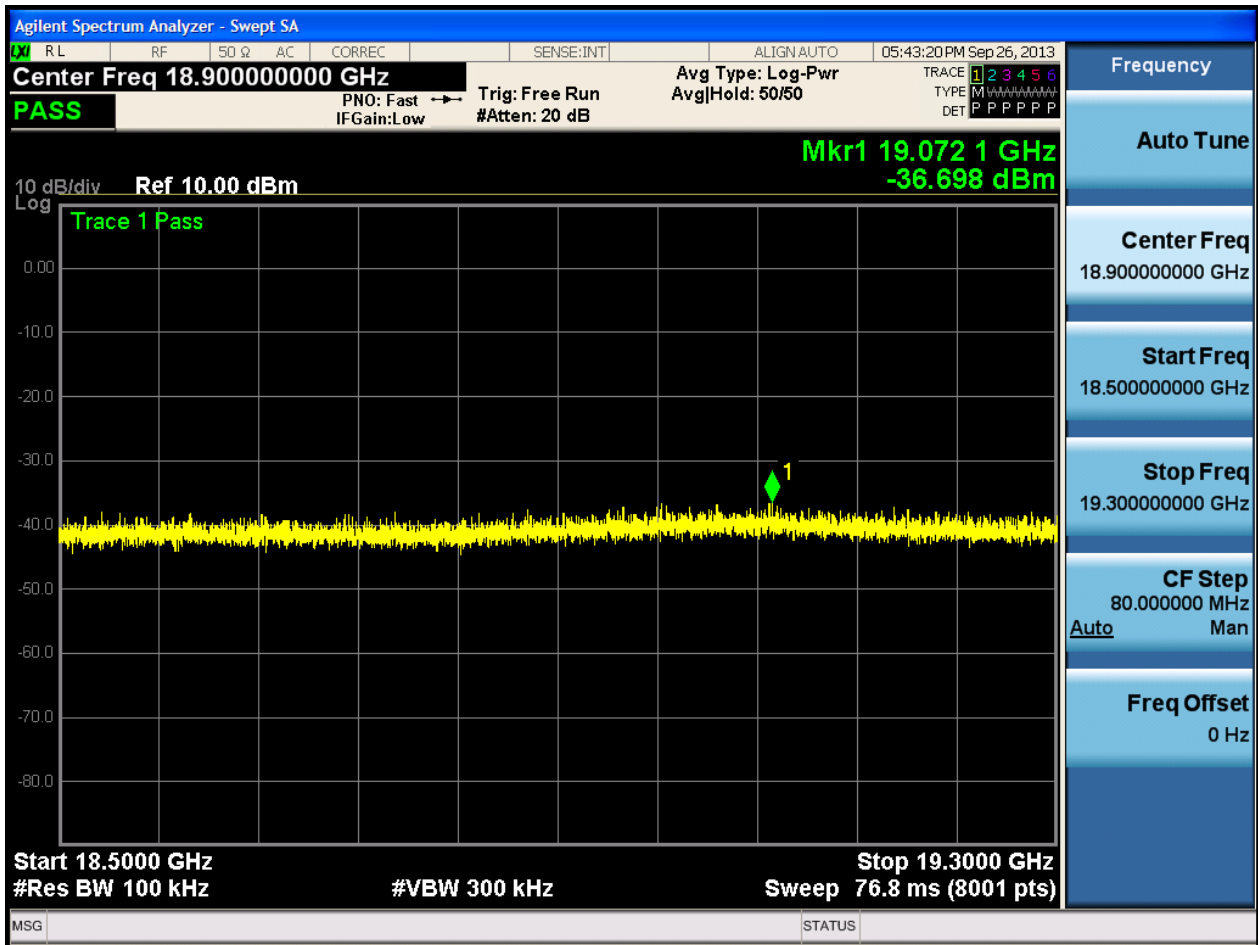


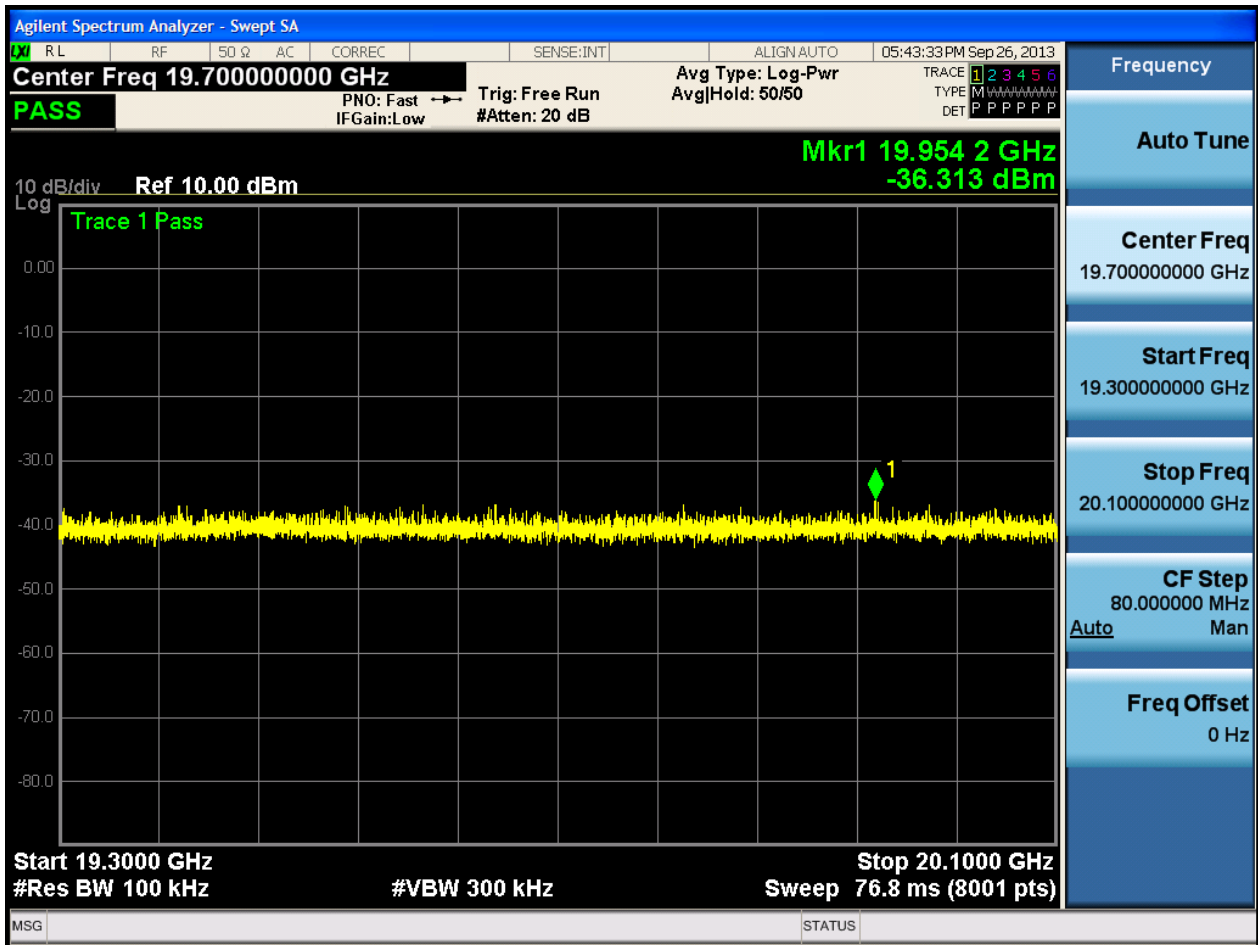


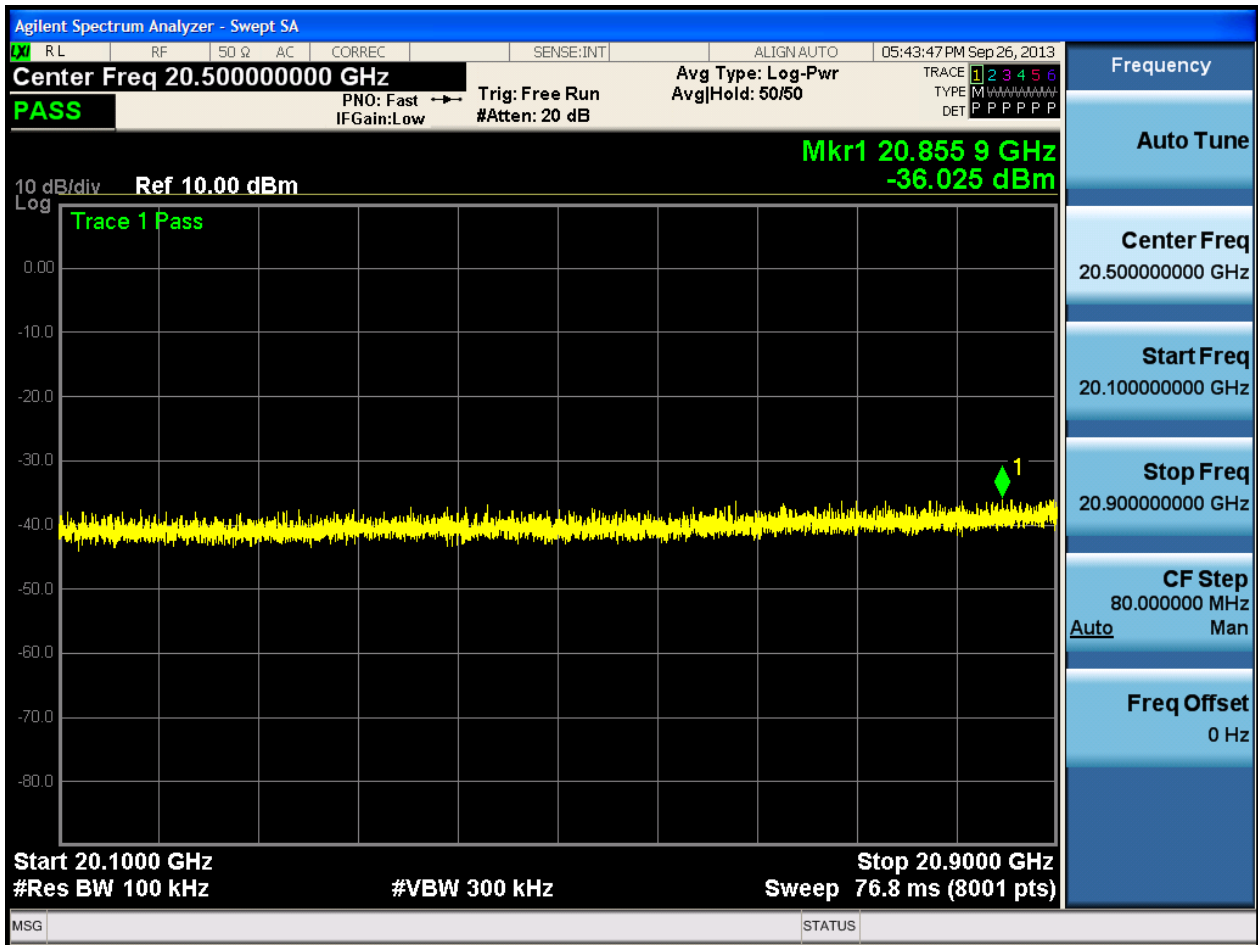


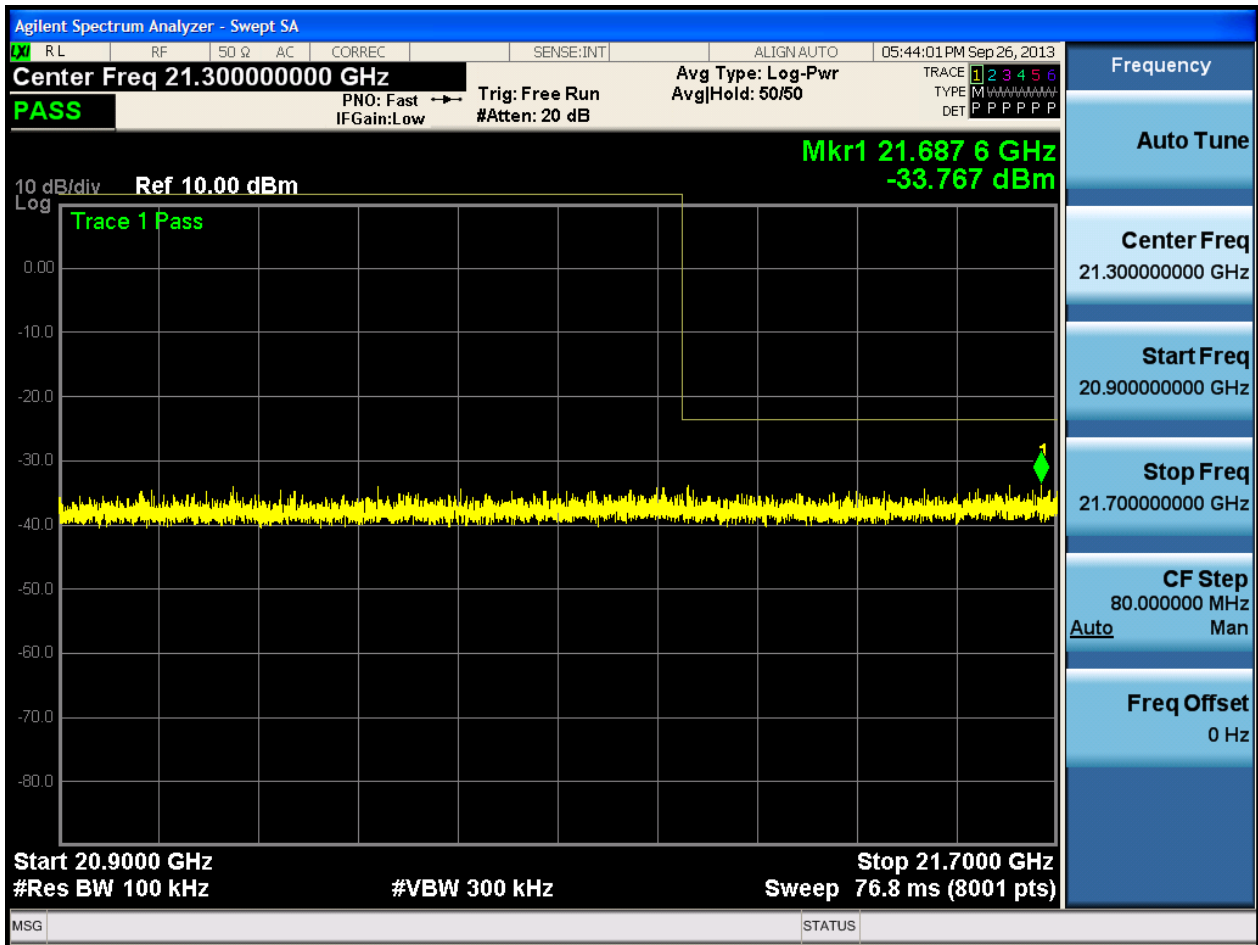


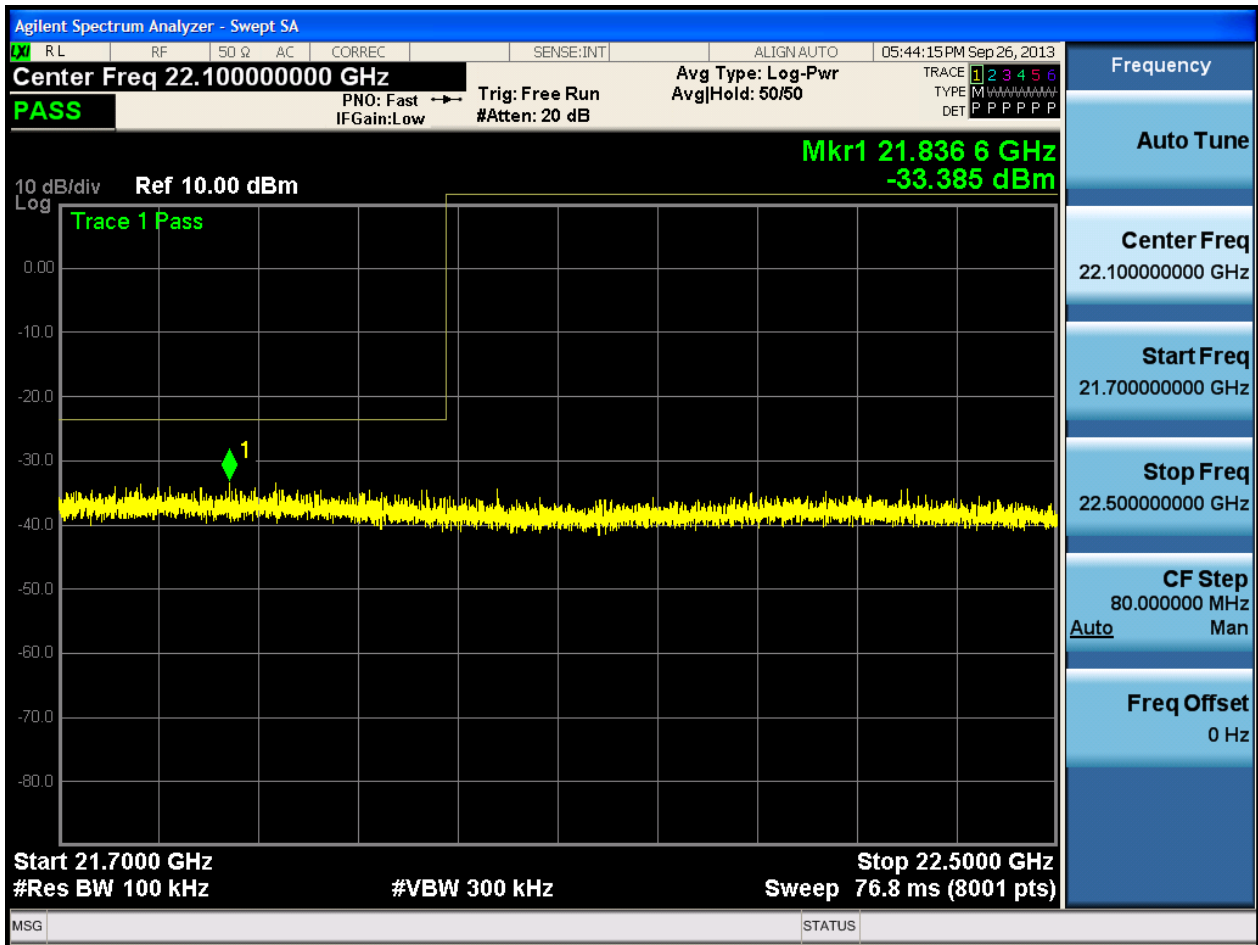


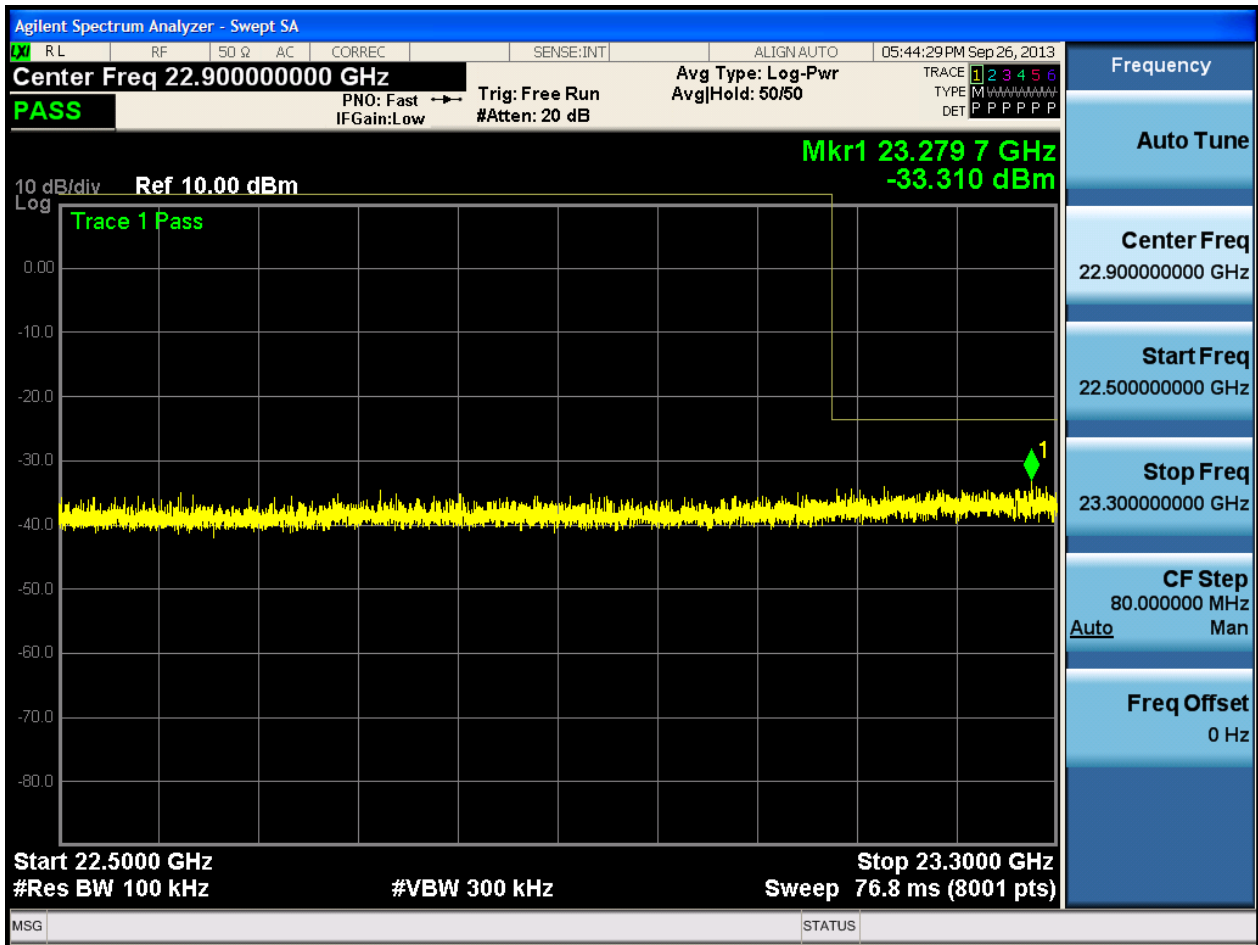


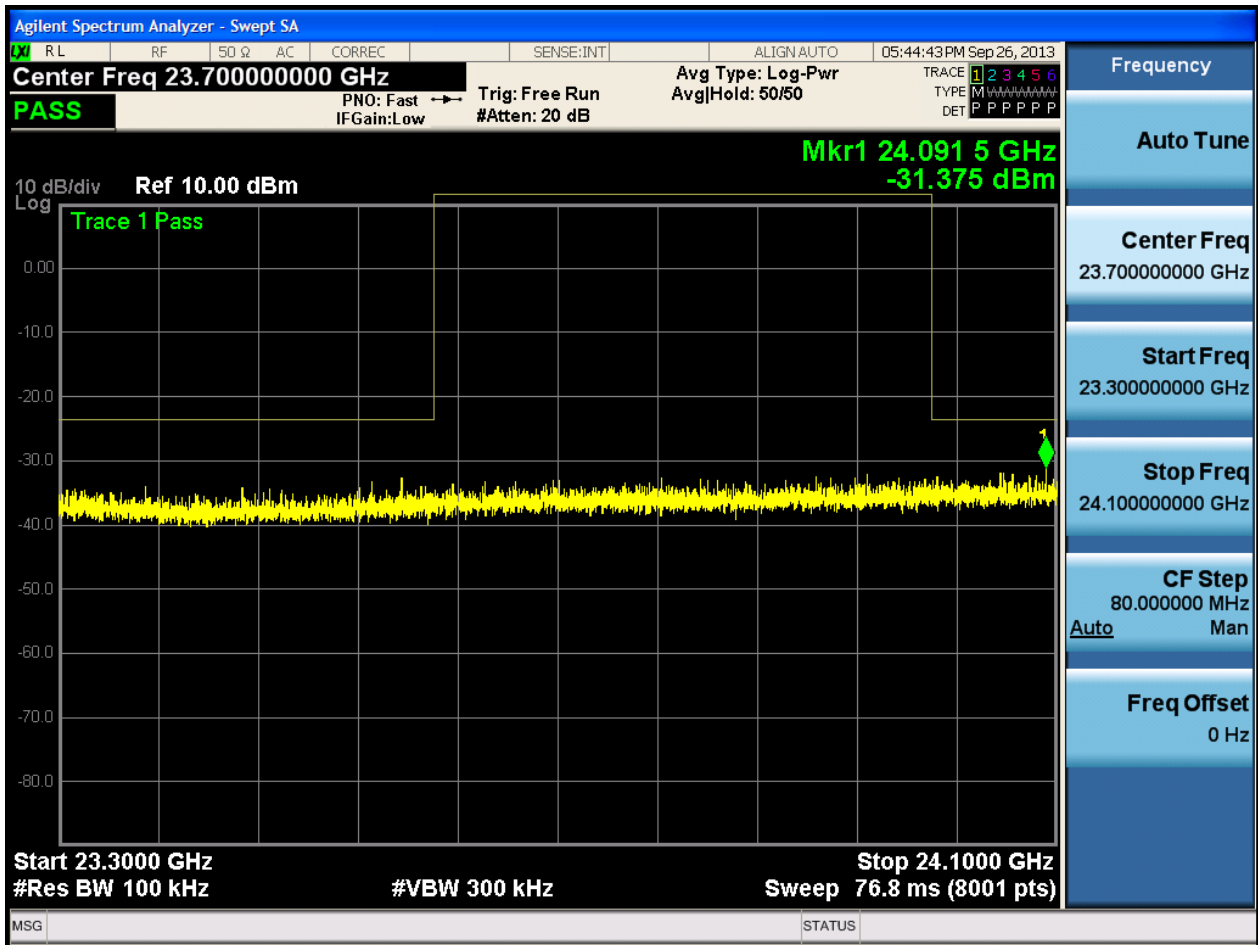


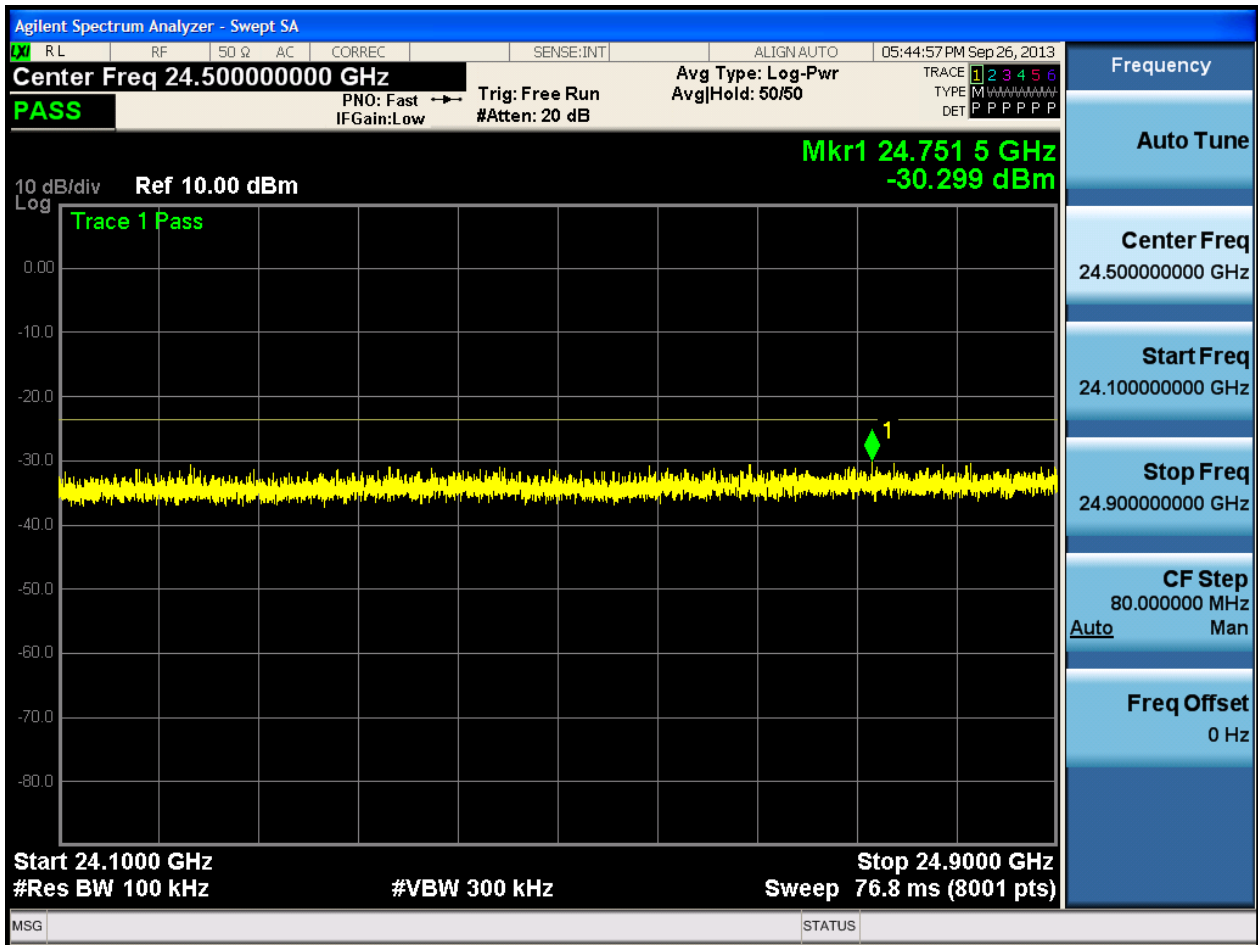


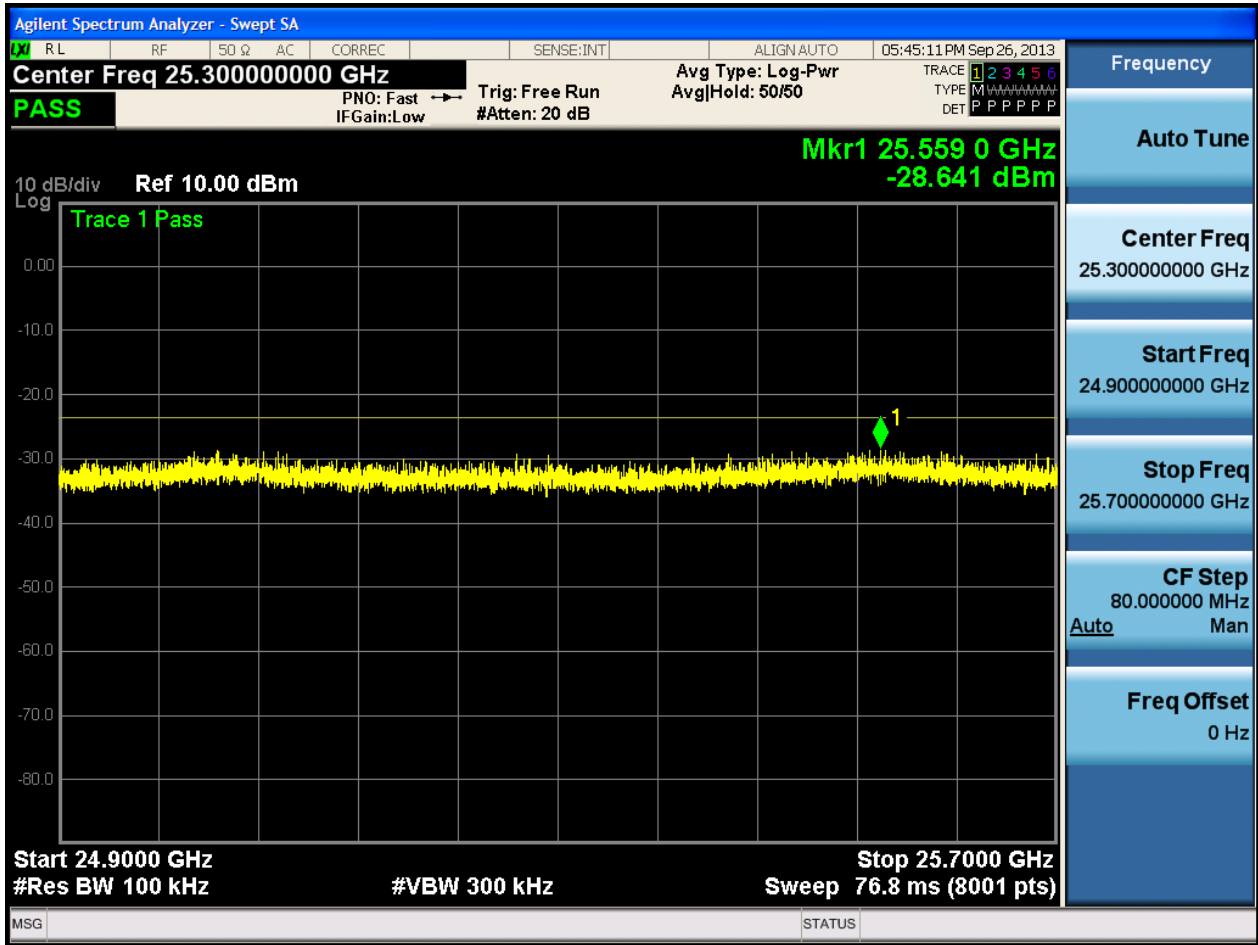


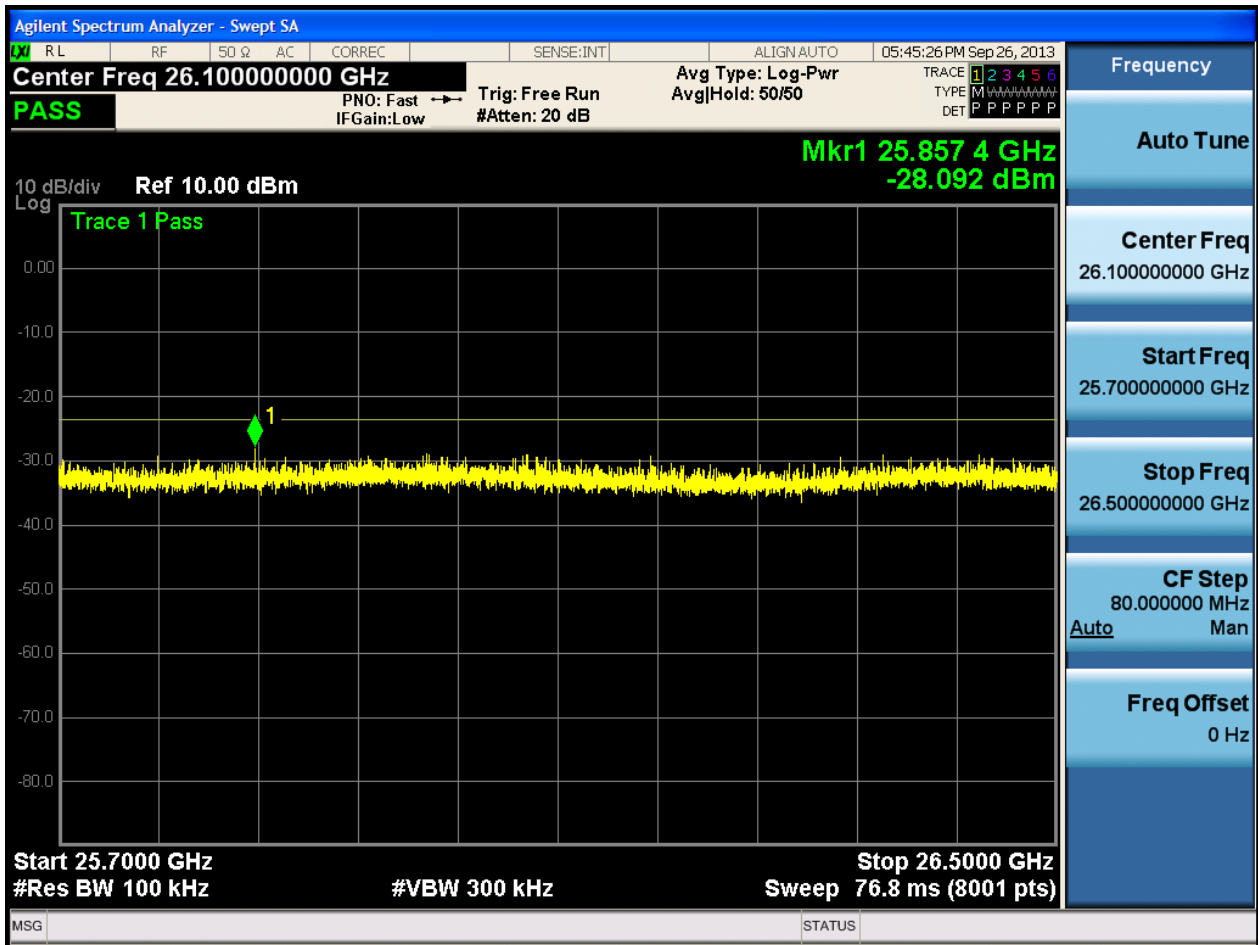






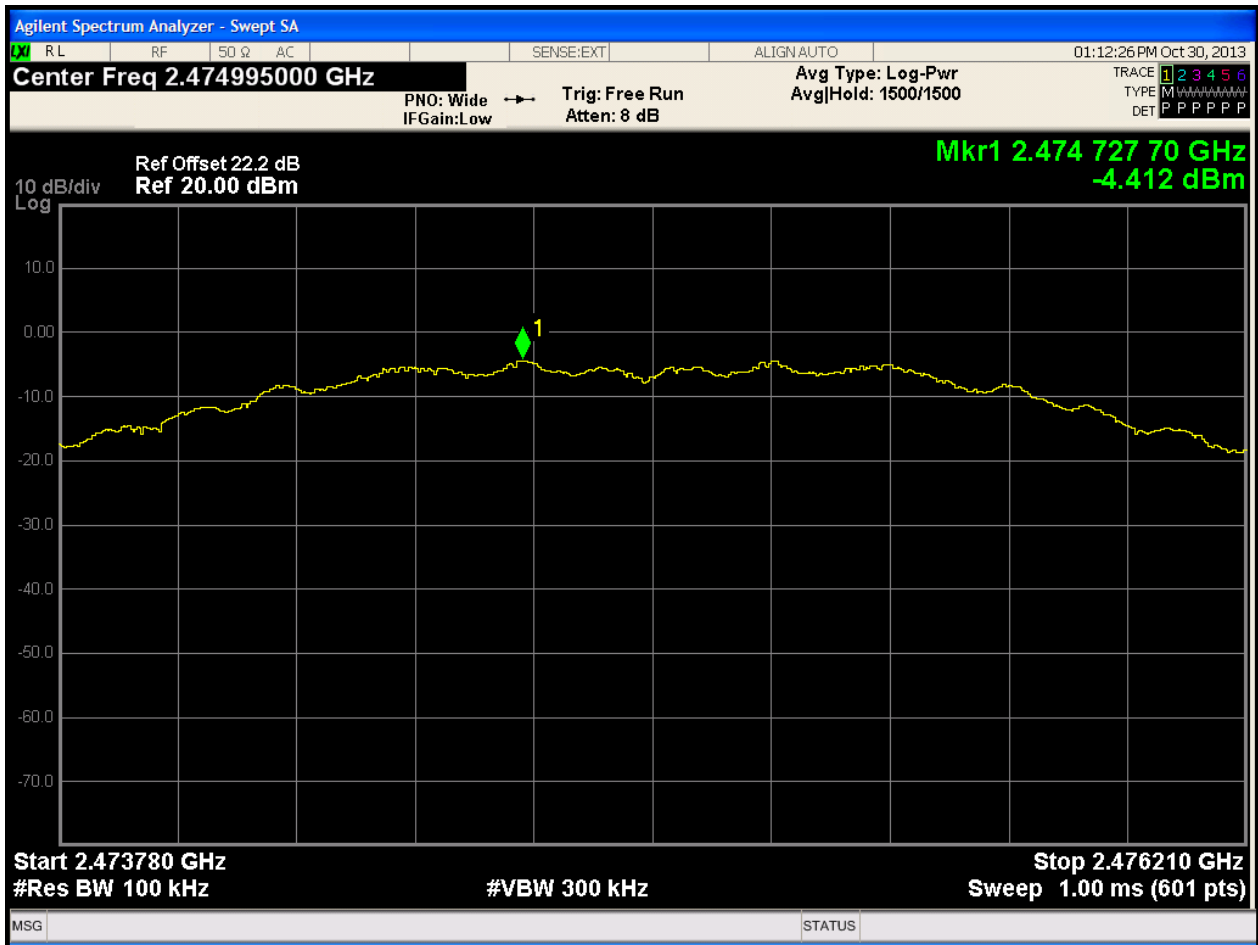






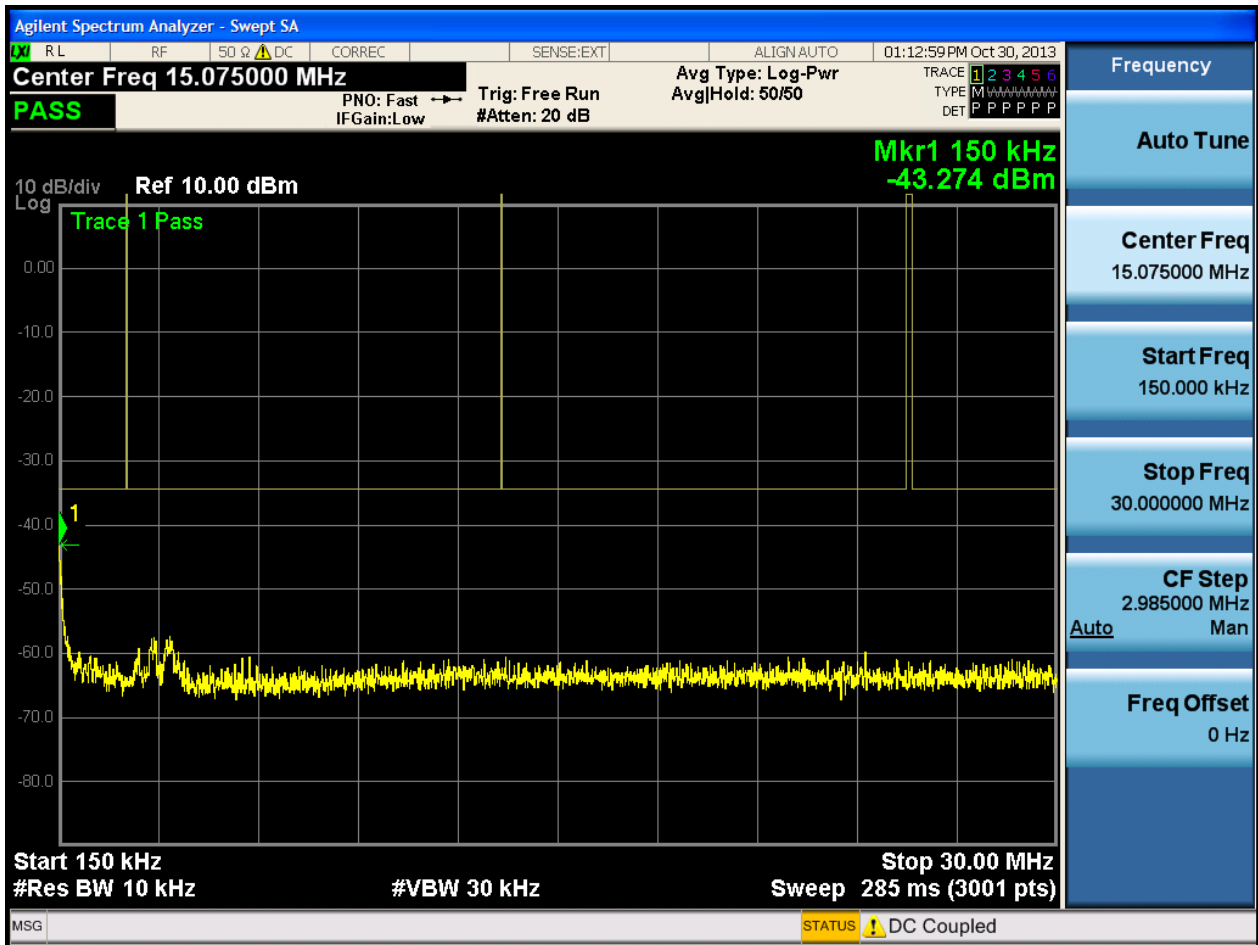
2.3 TX-T

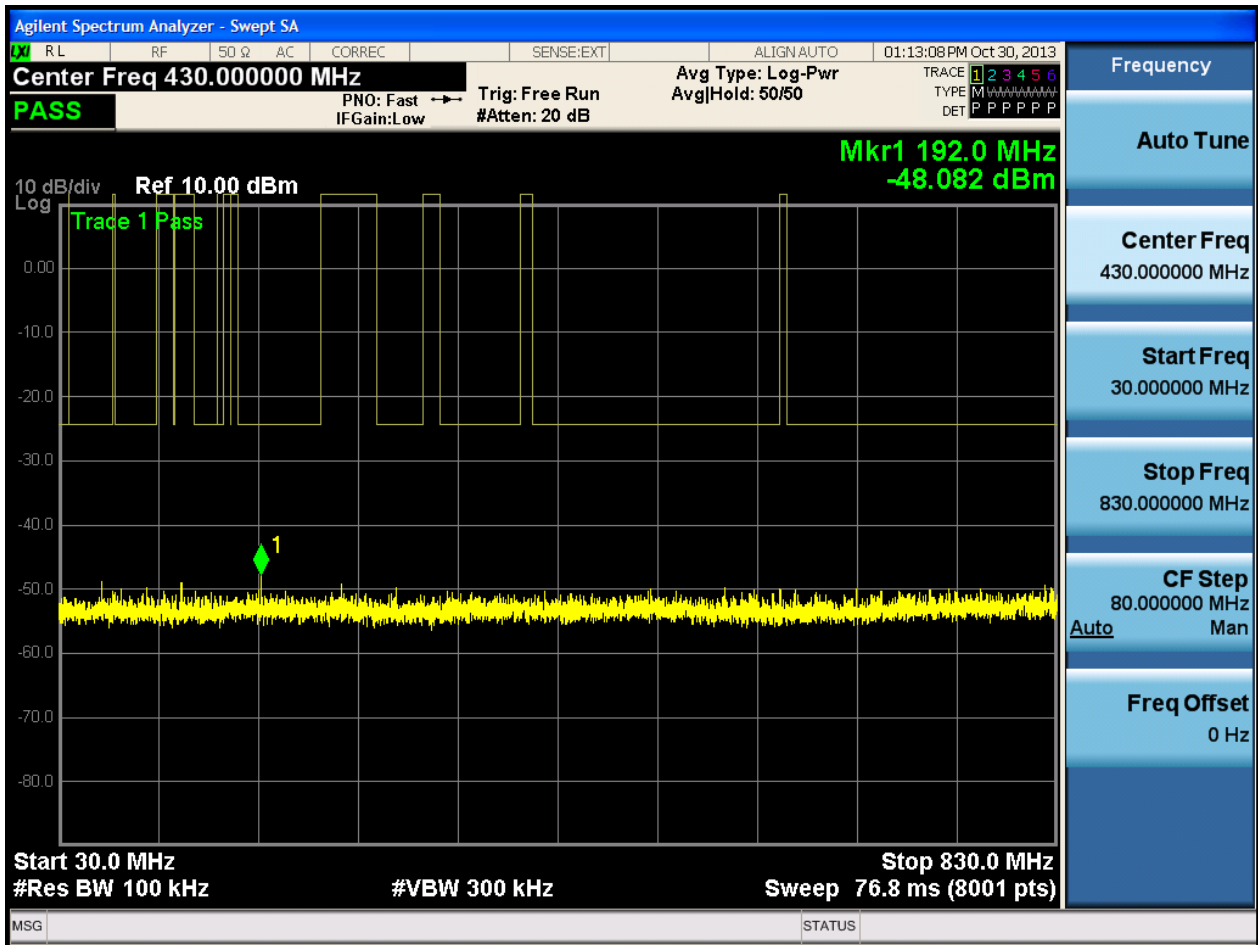
2.3.1 Pref

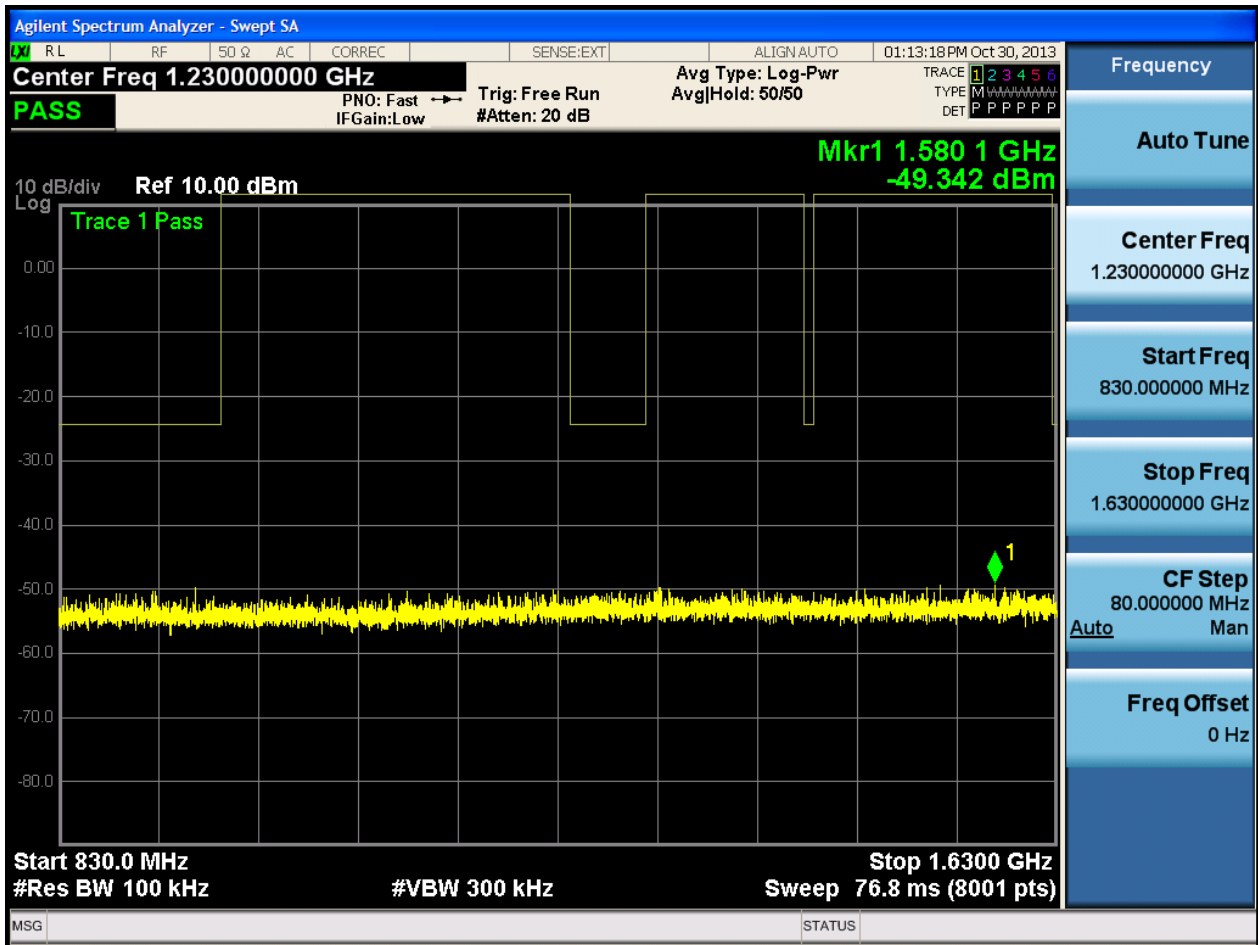


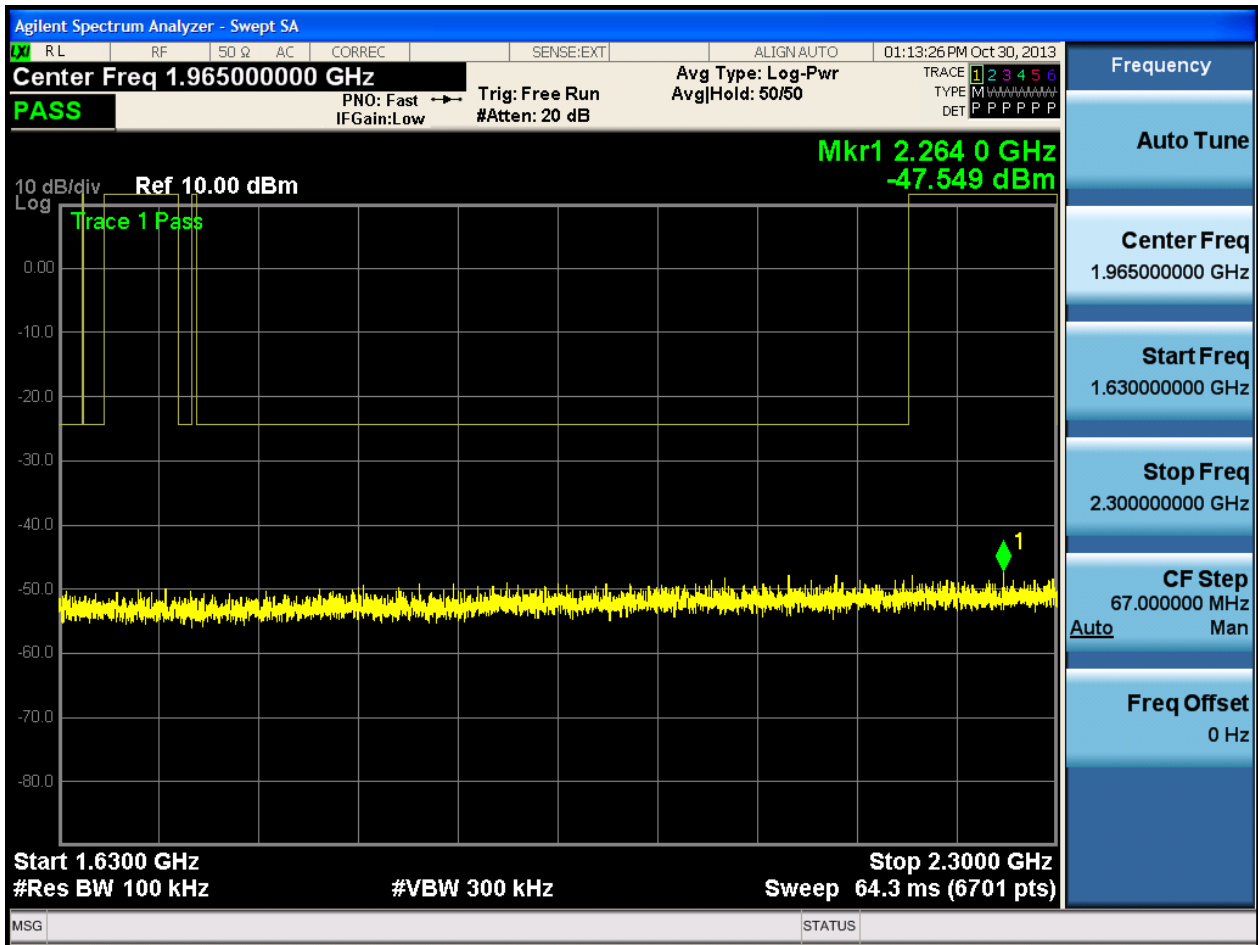
2.3.2 Puw

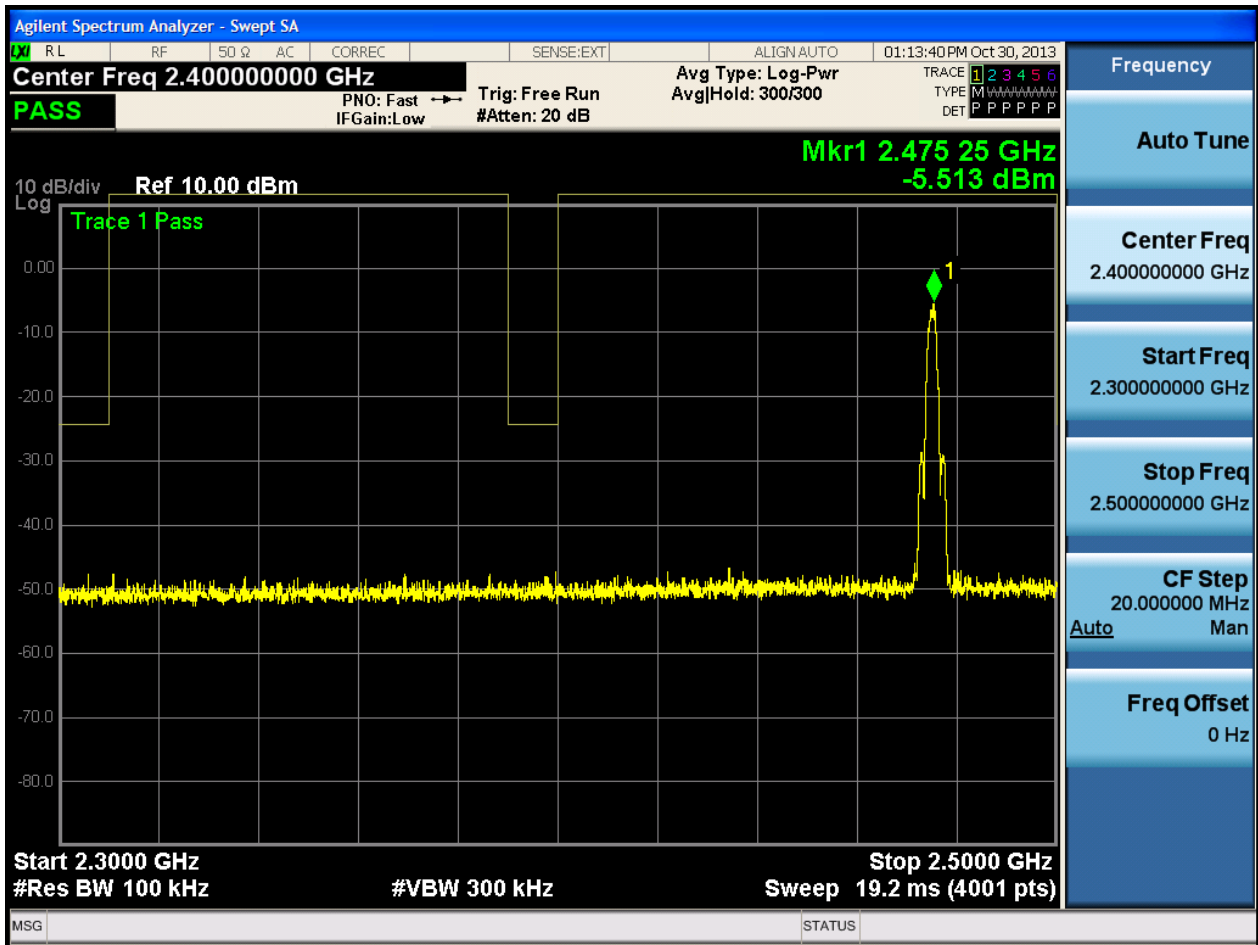


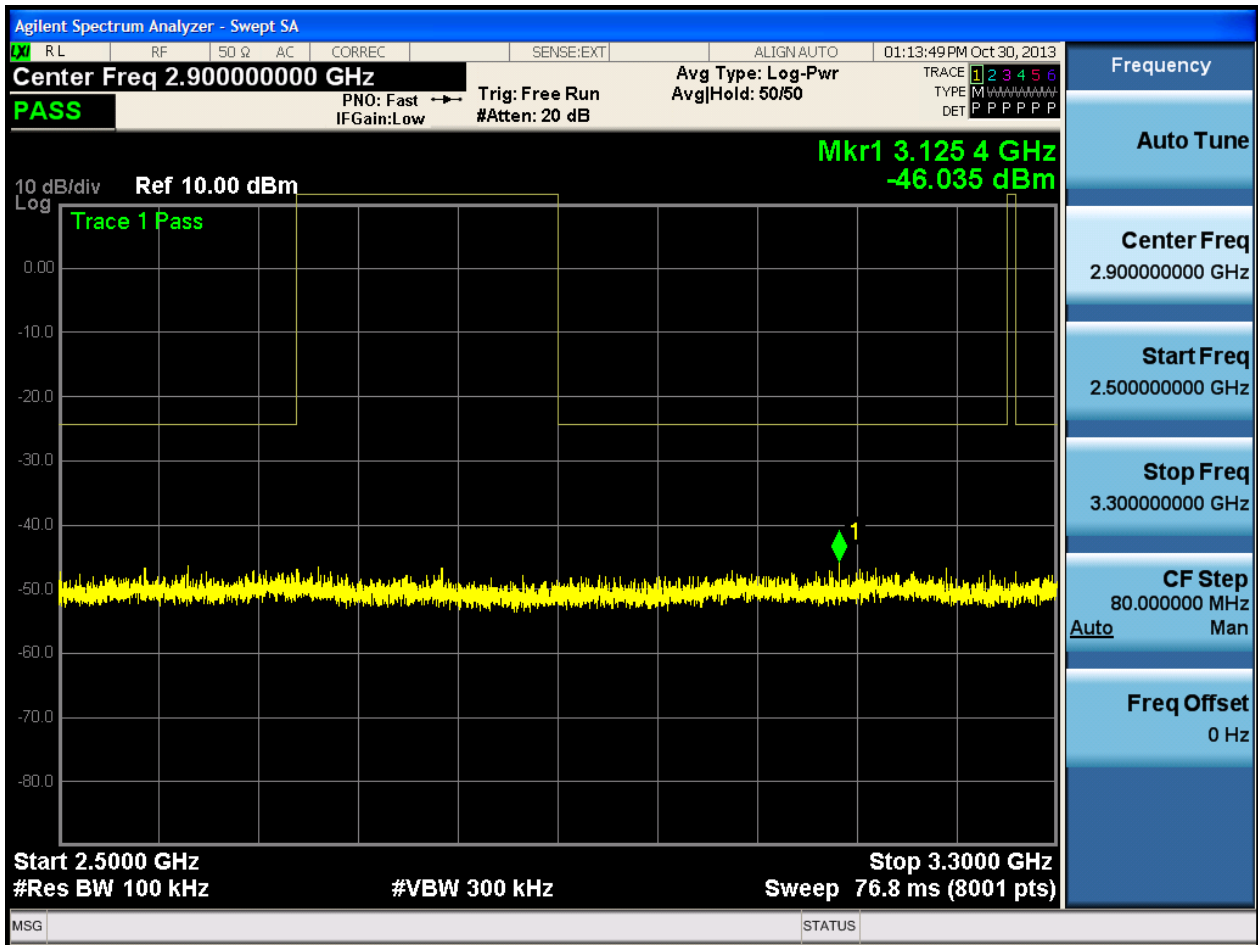


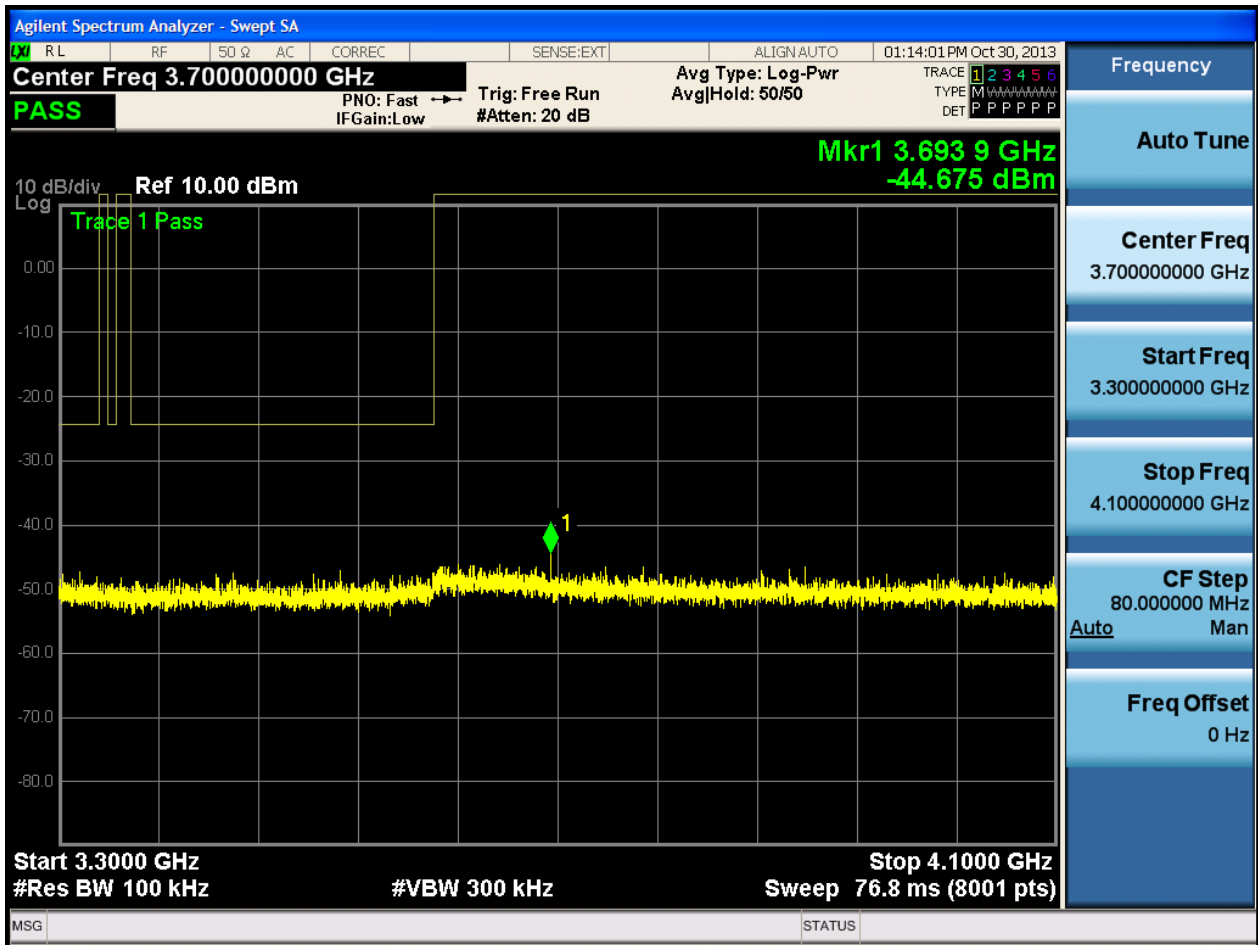


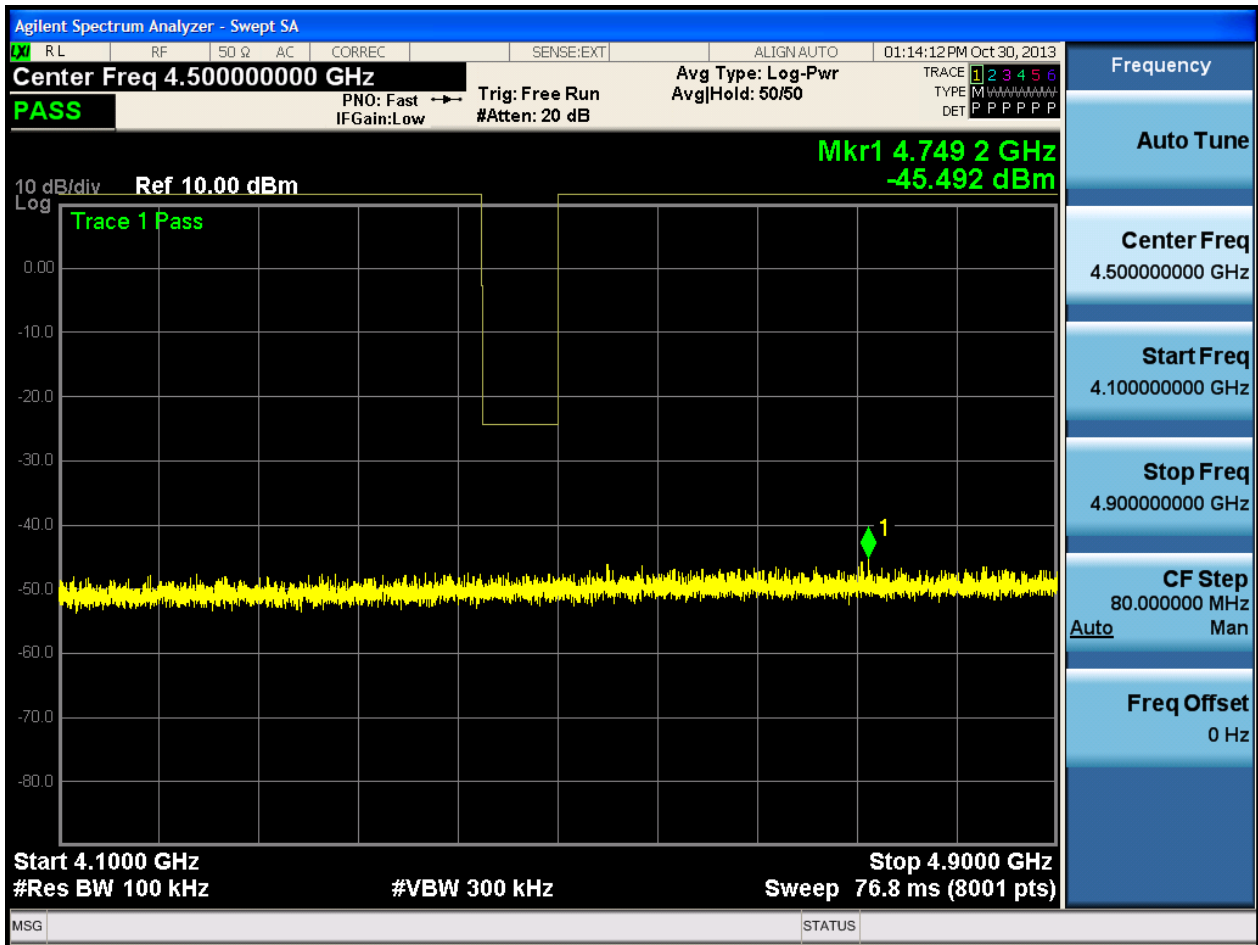


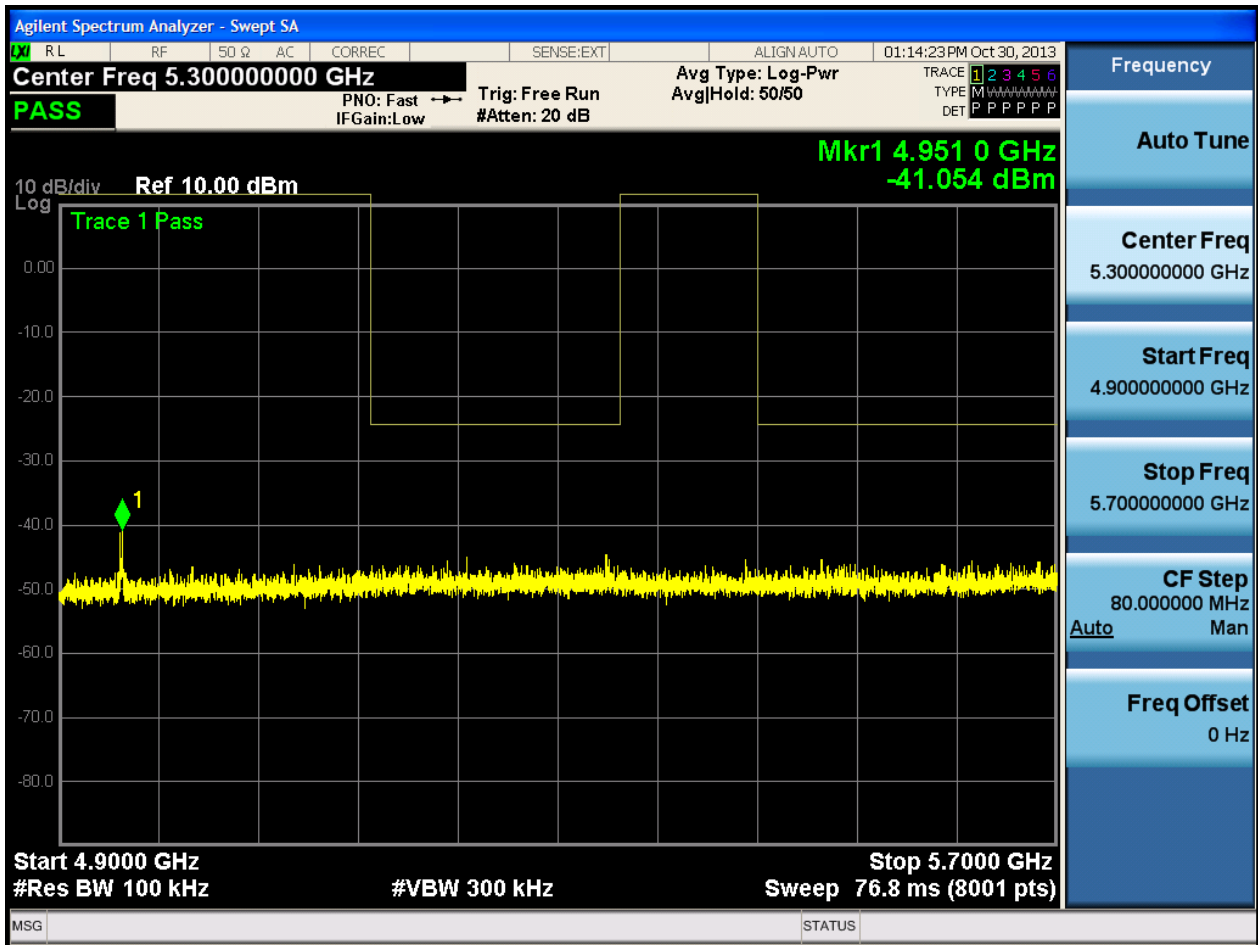


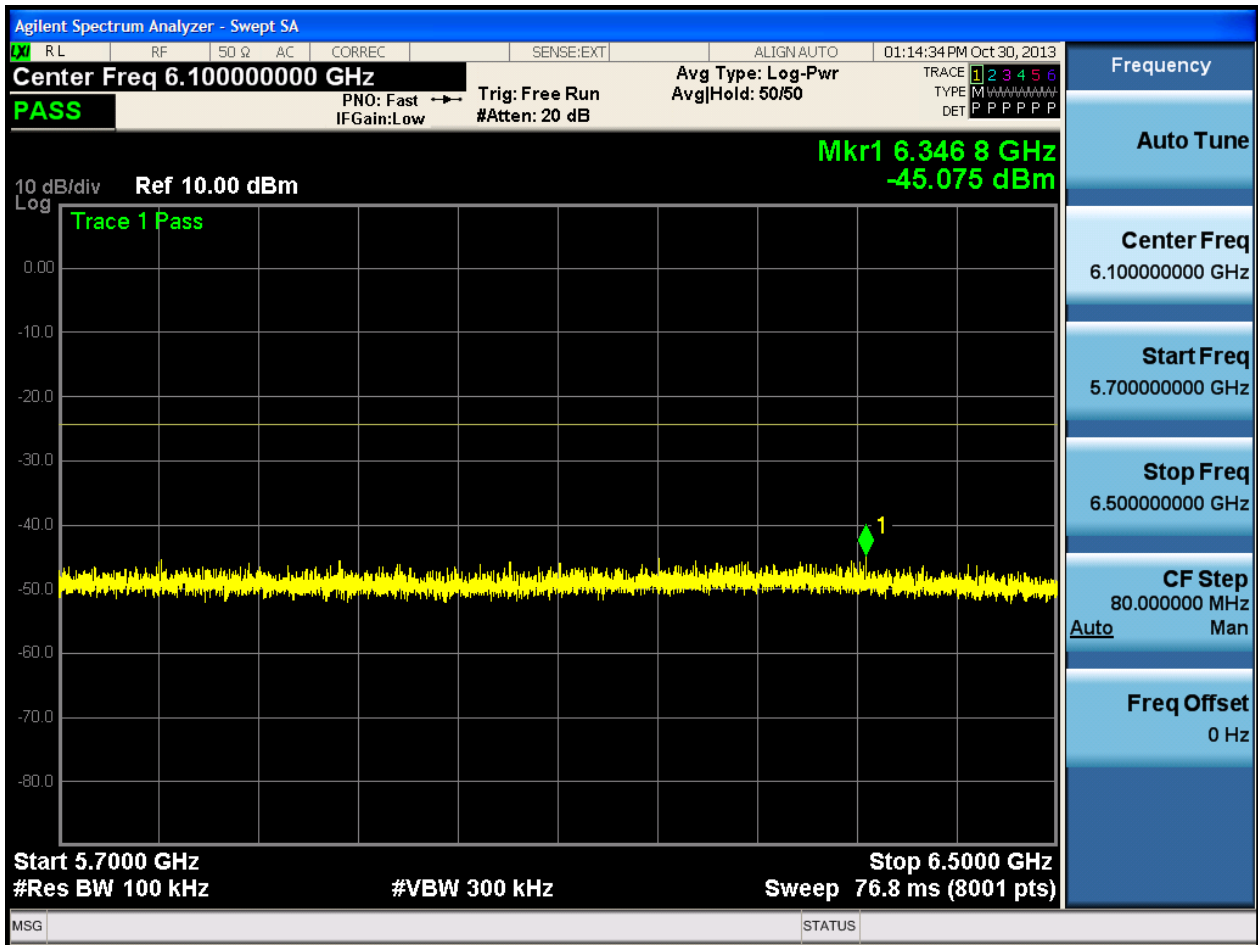


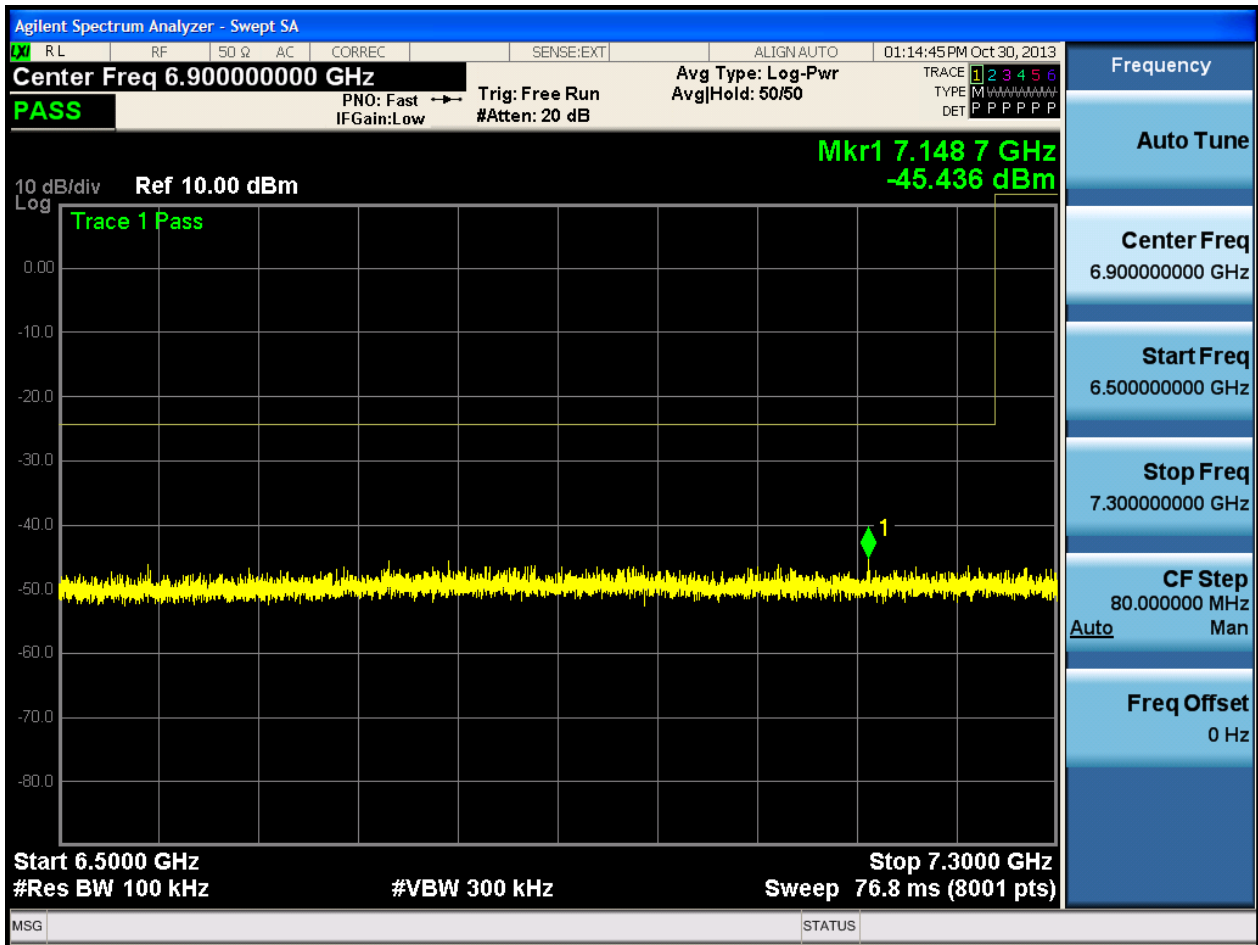


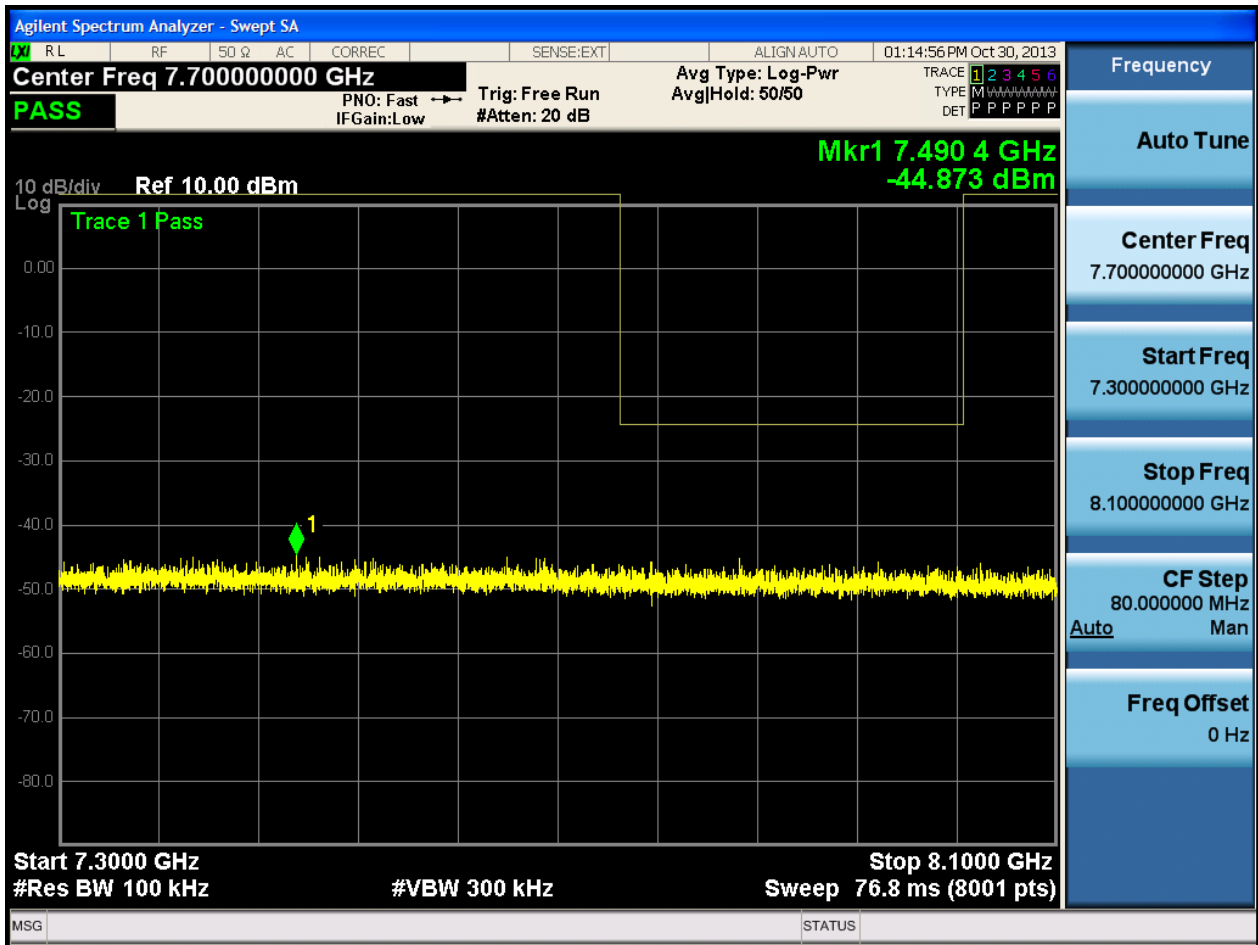


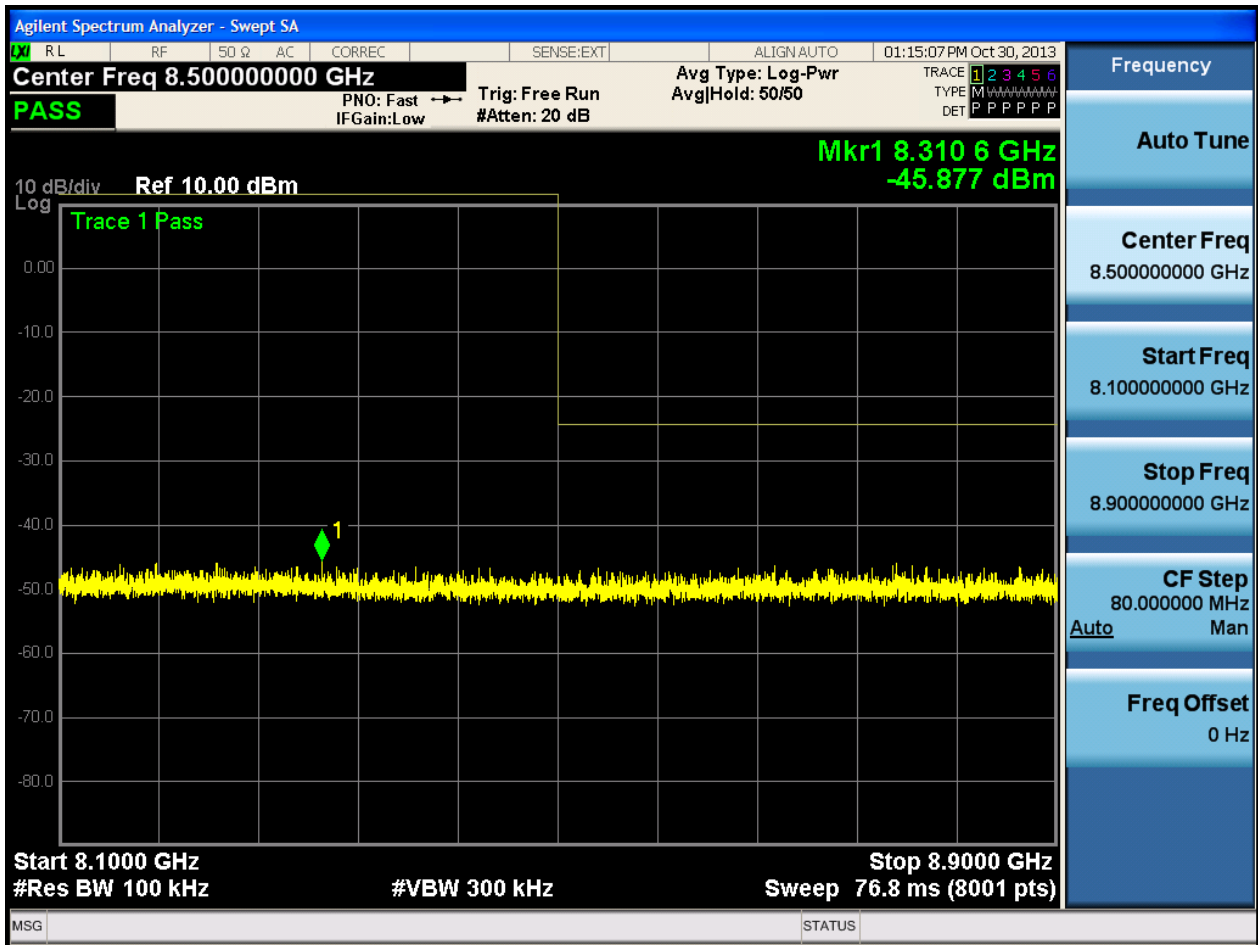


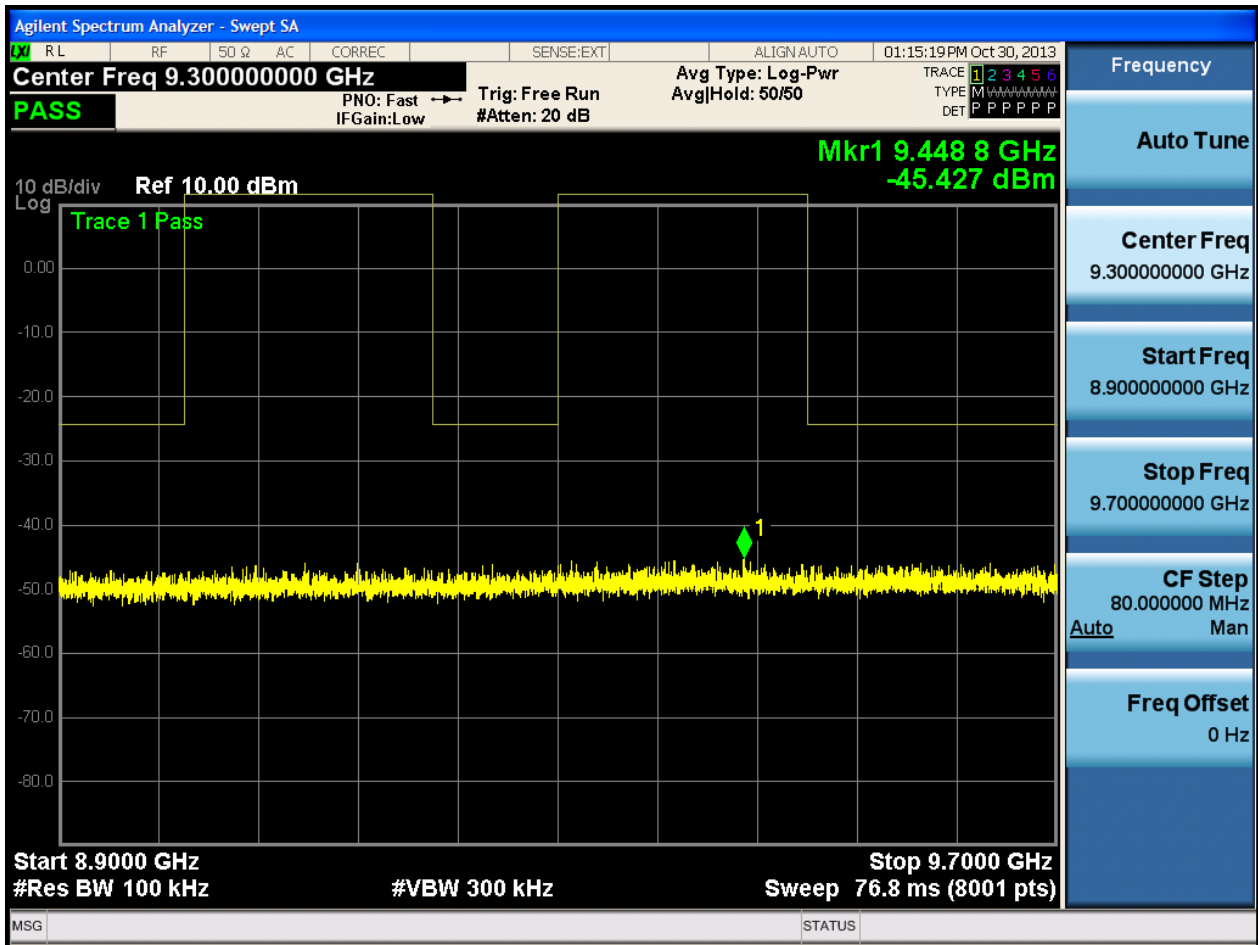


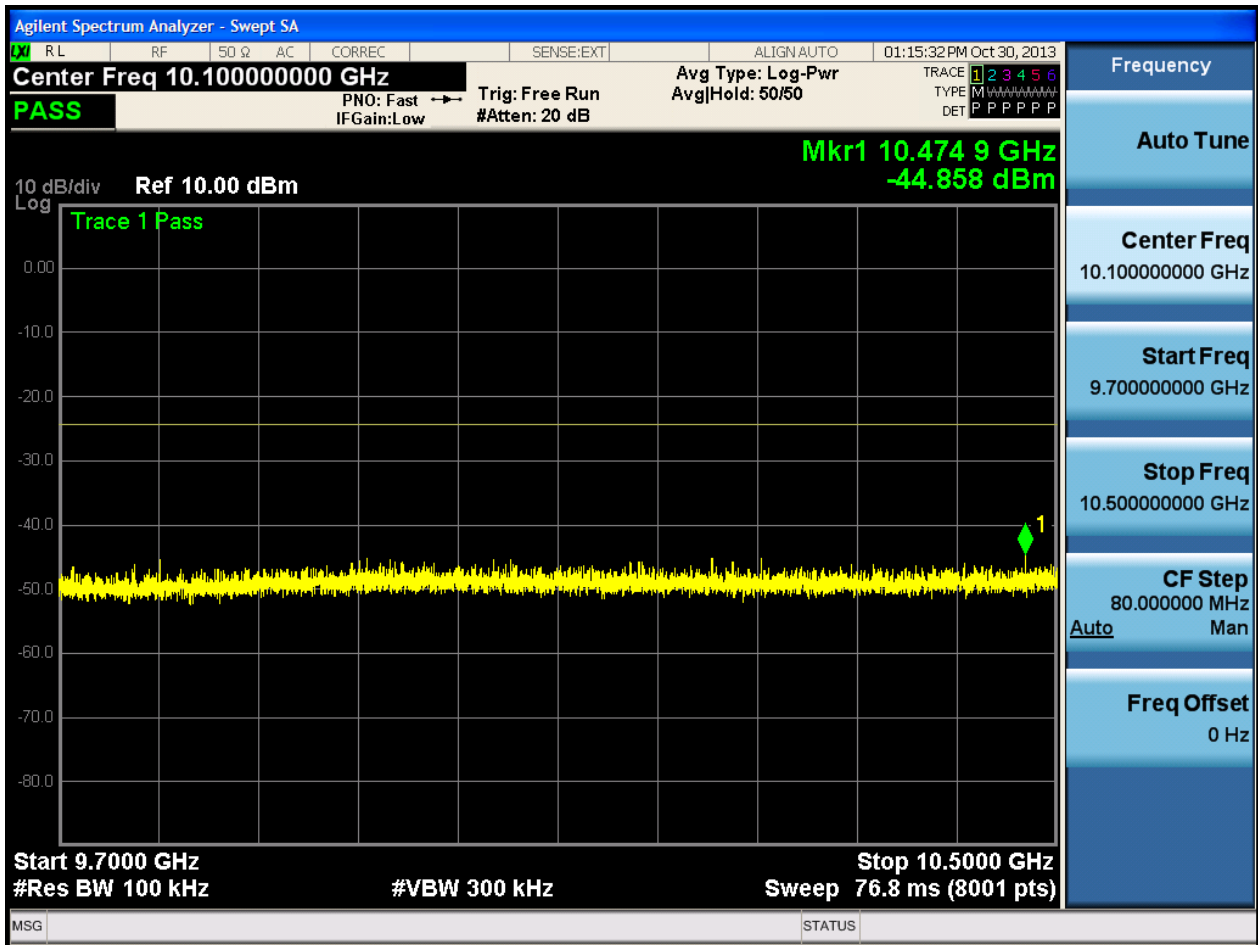


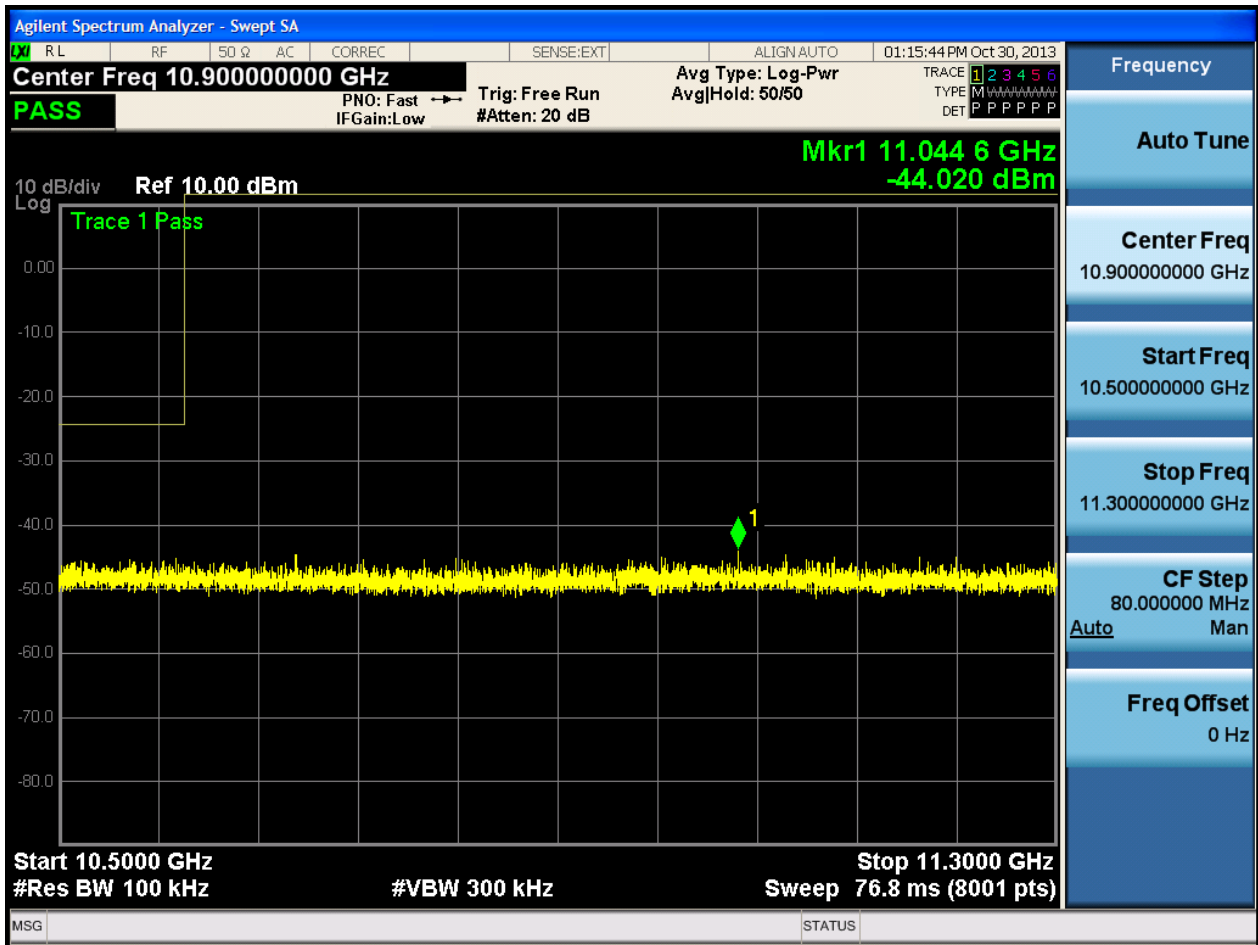


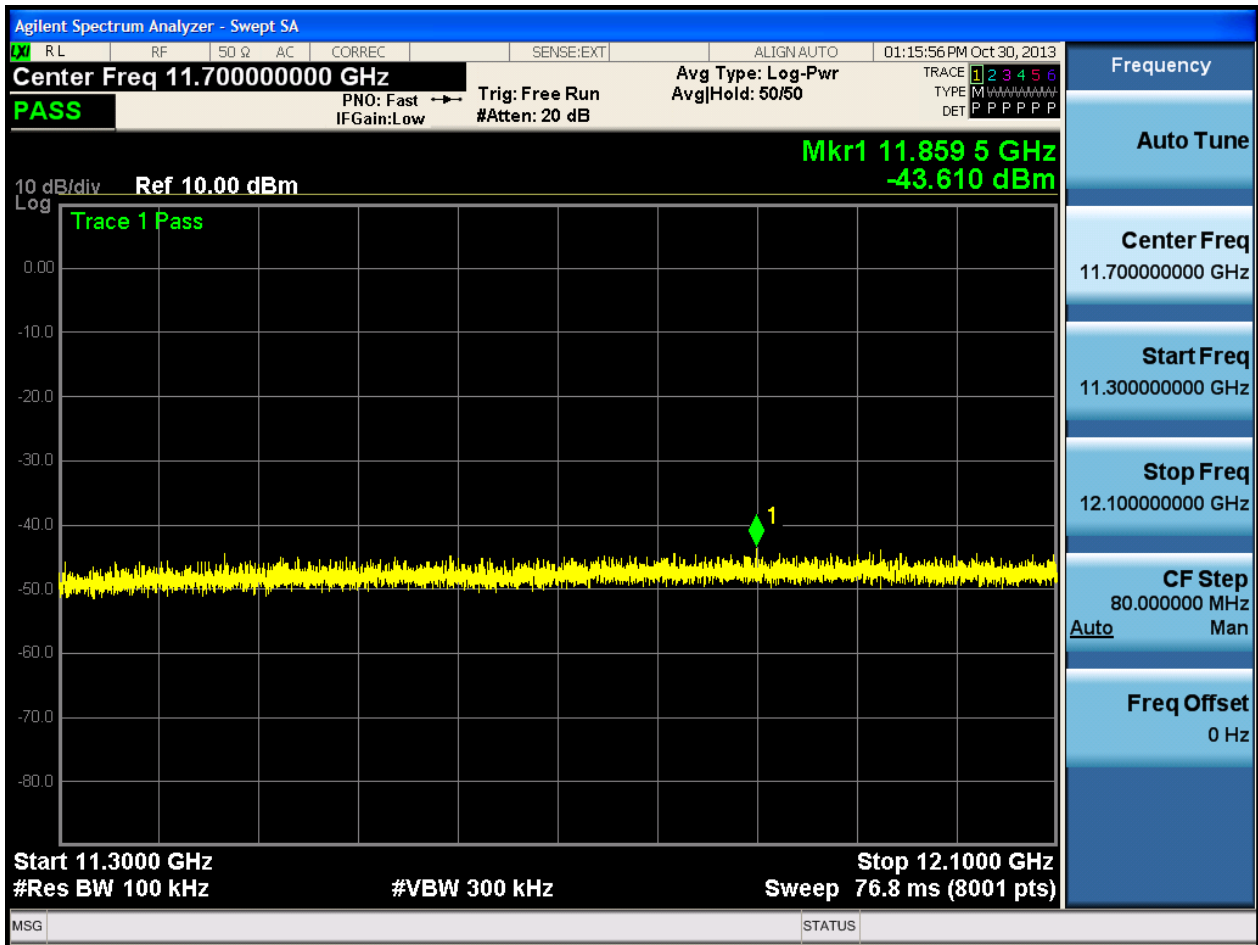


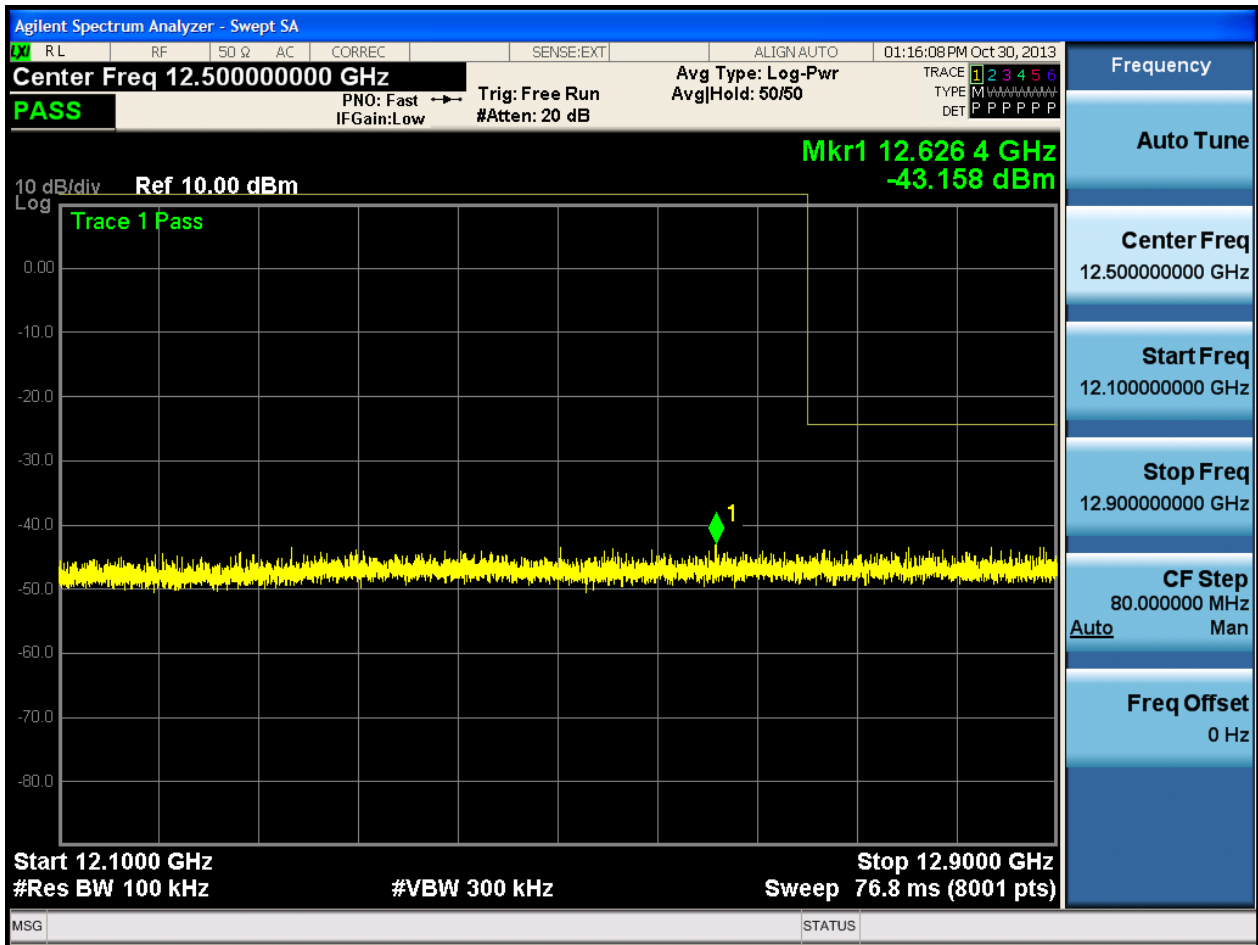


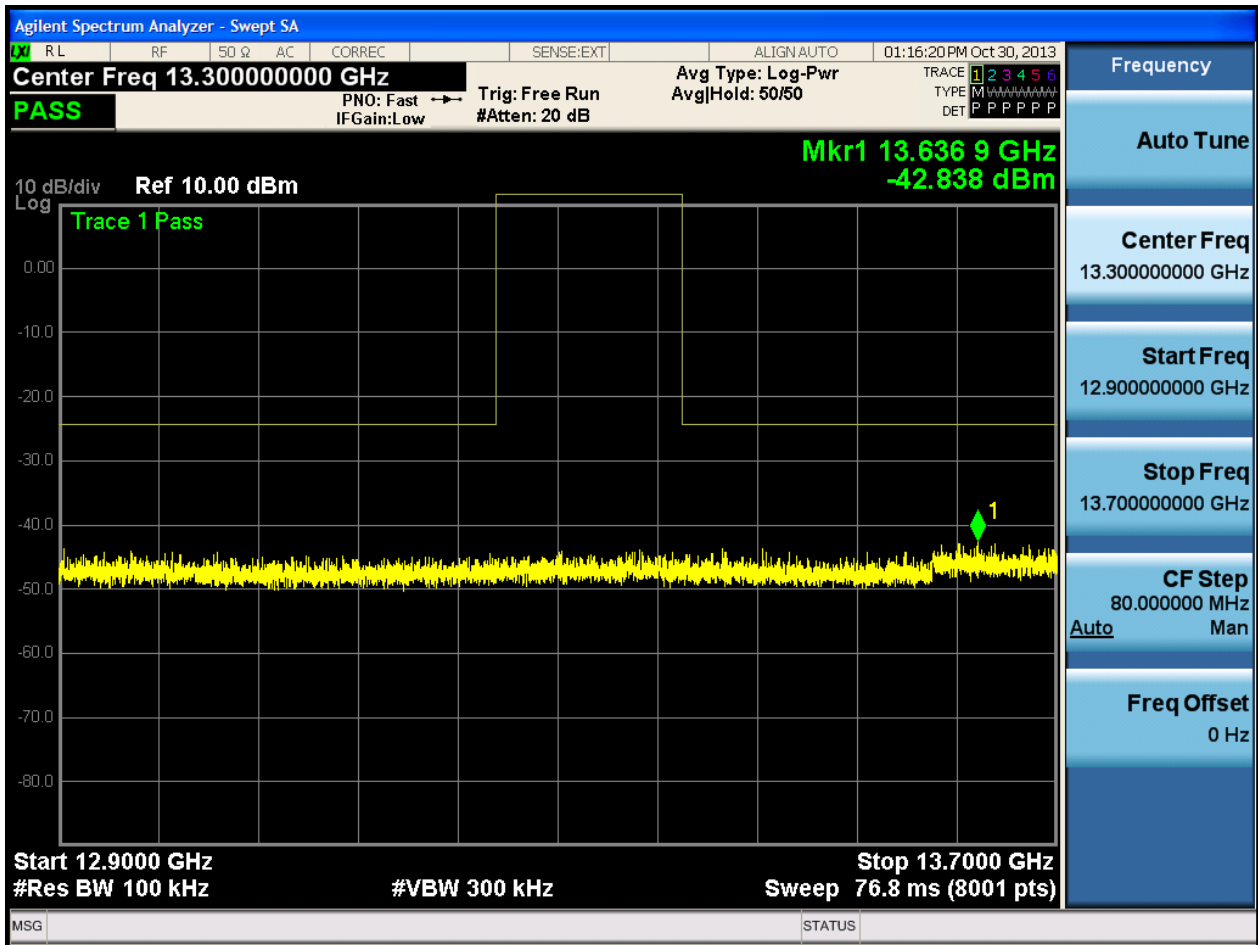


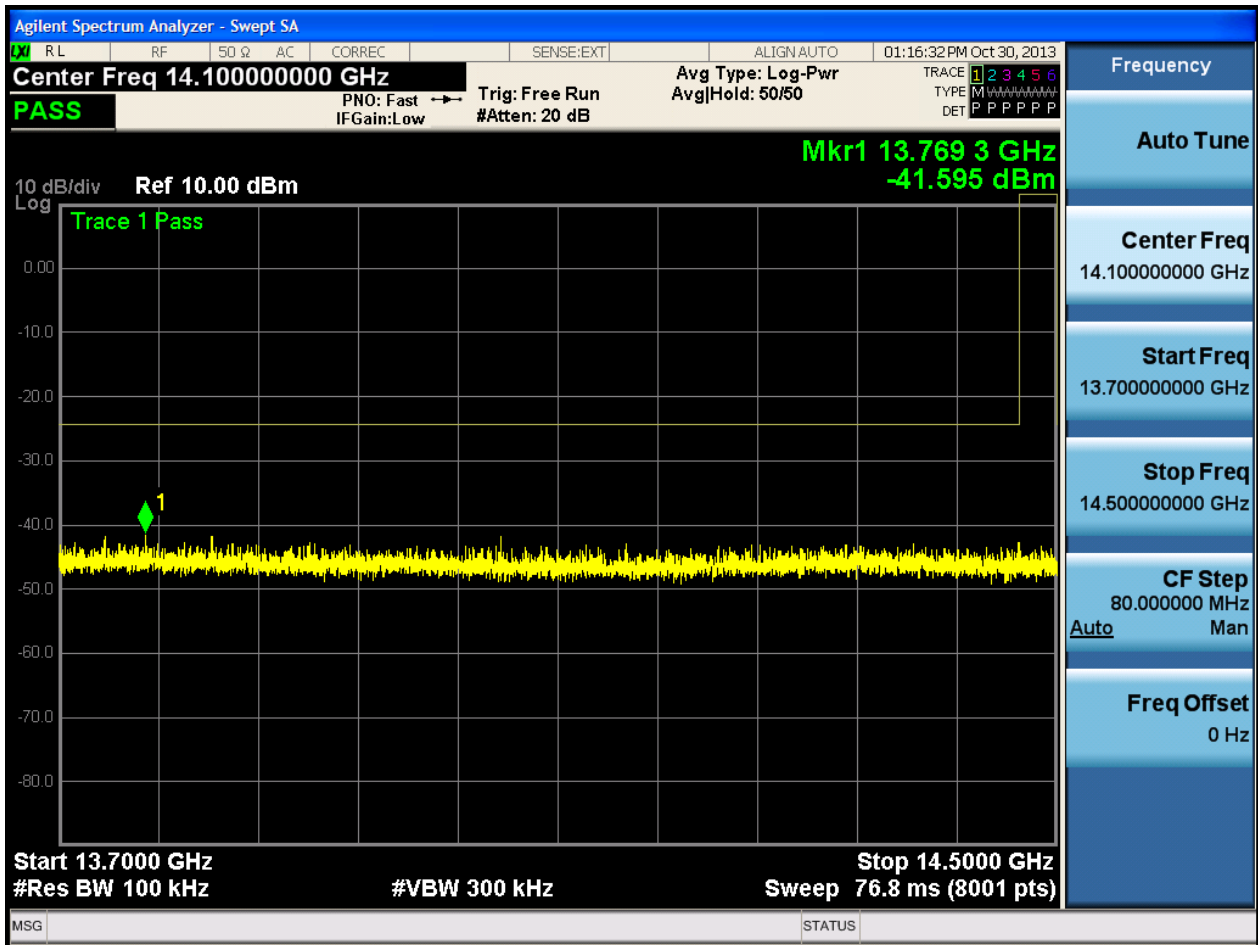


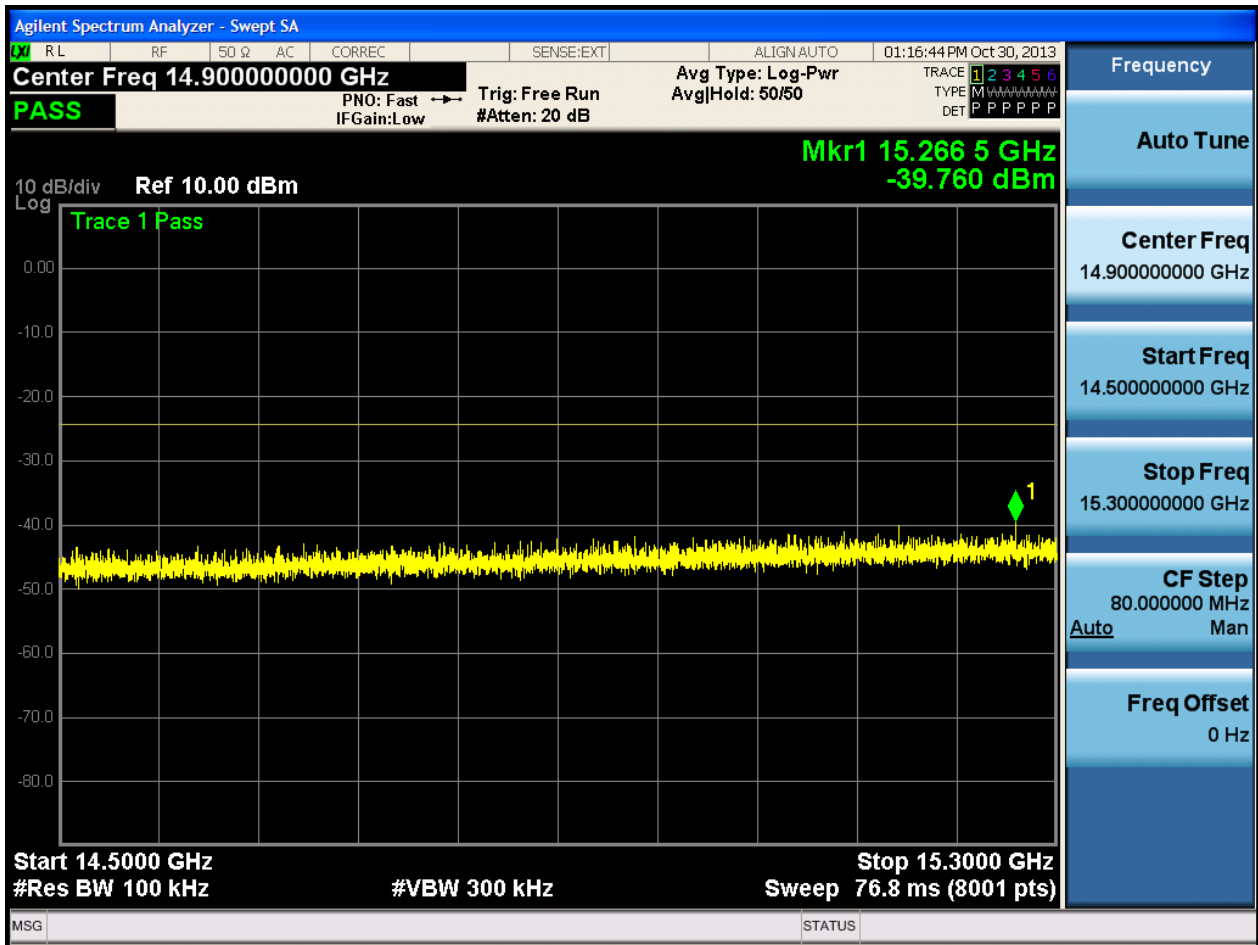


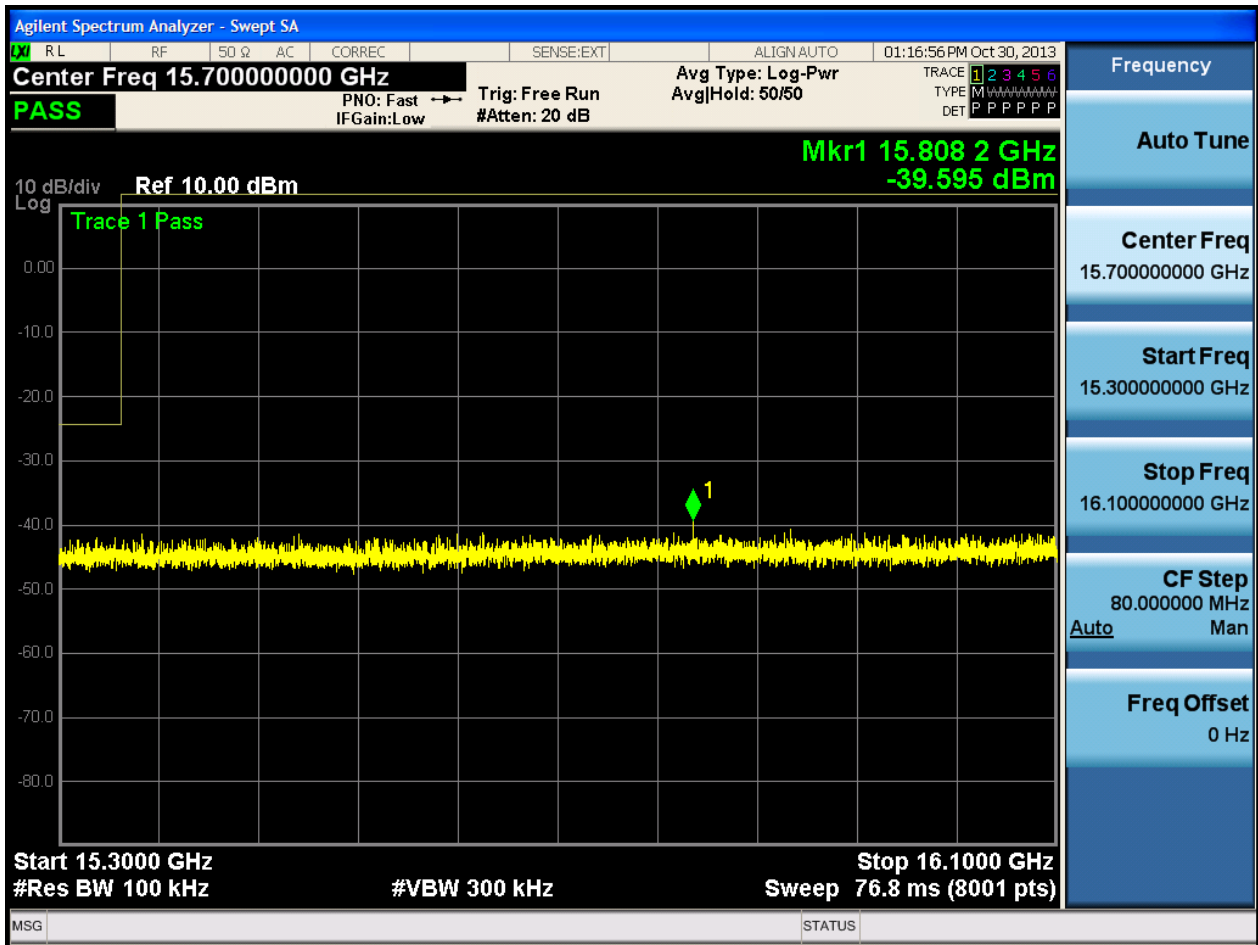


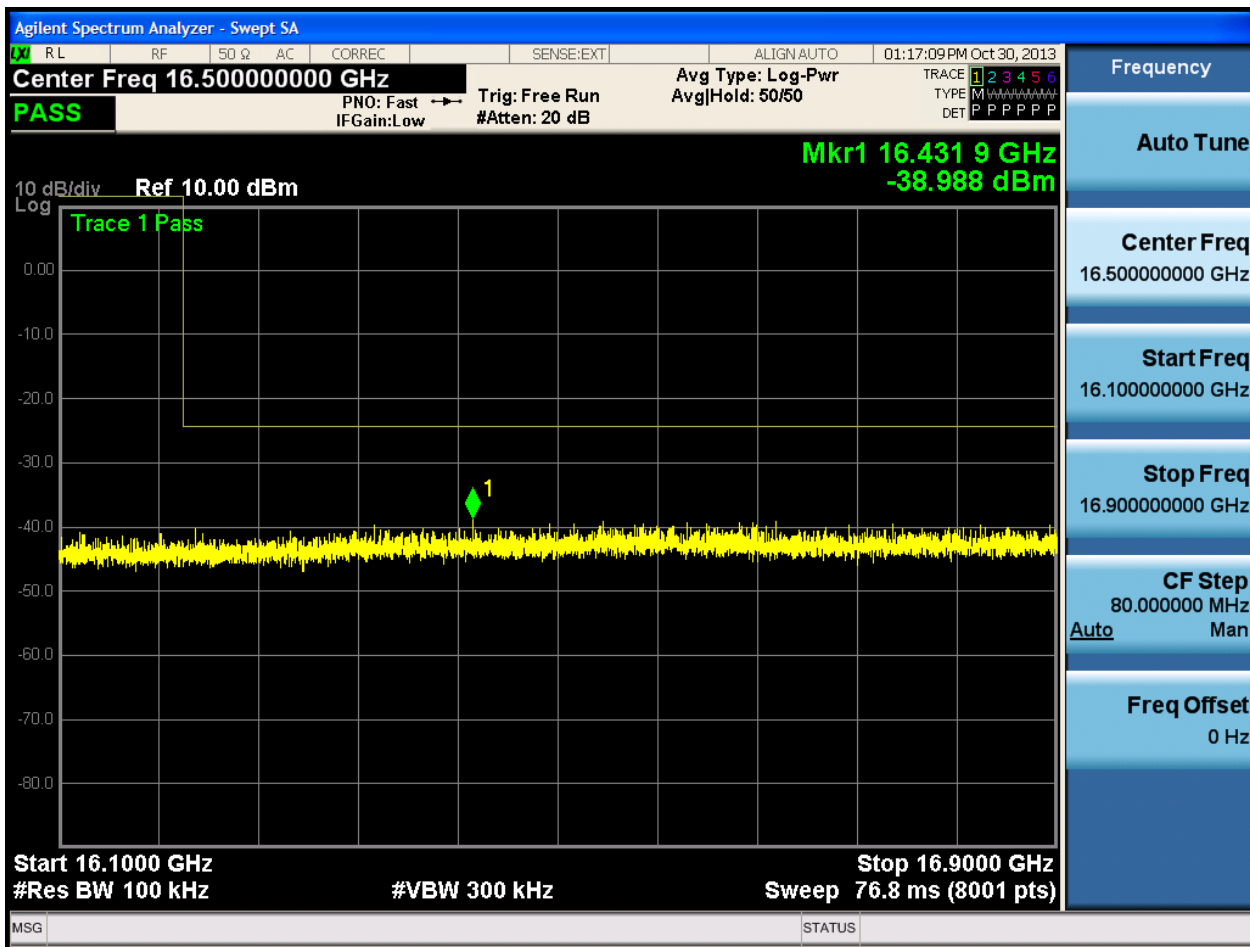


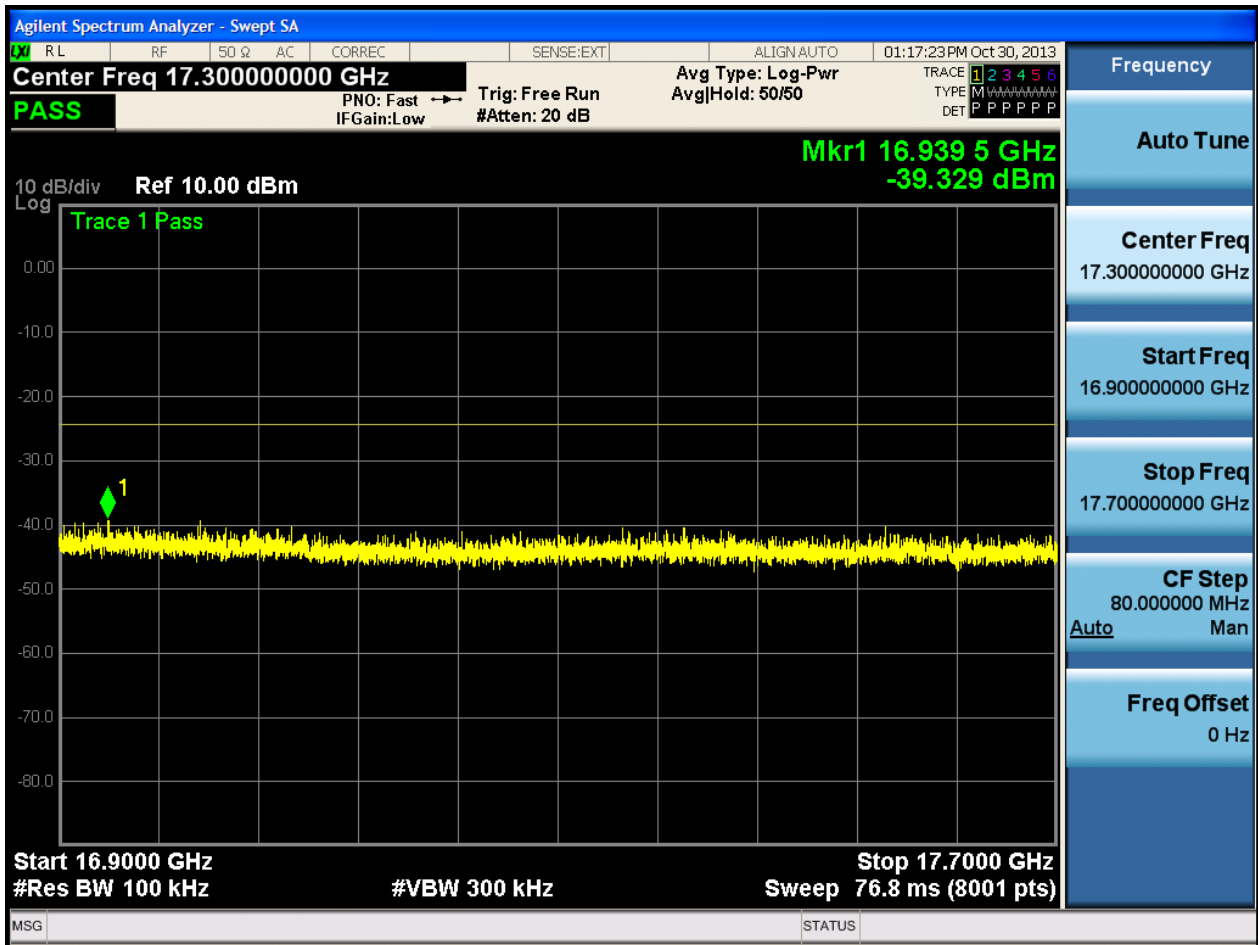


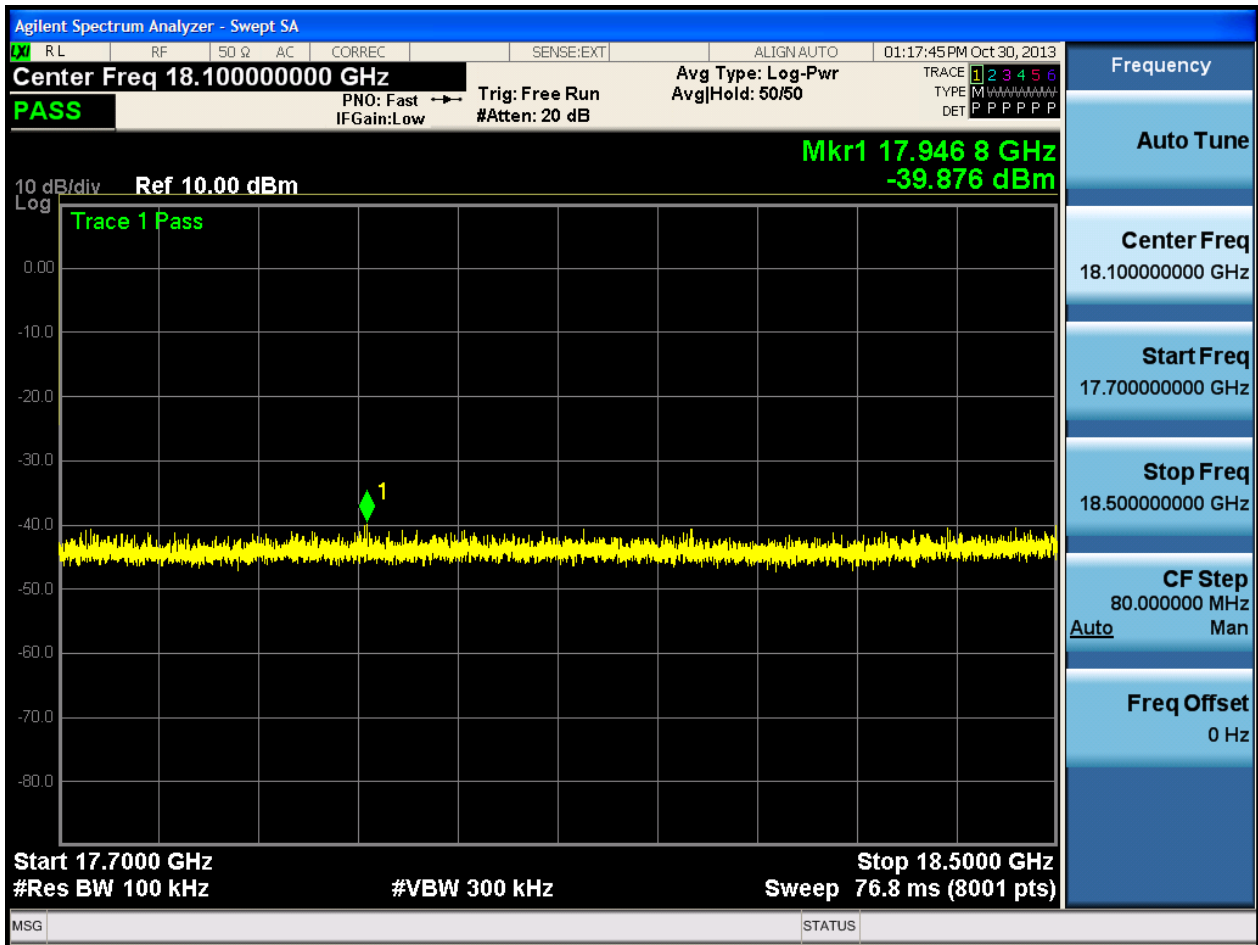


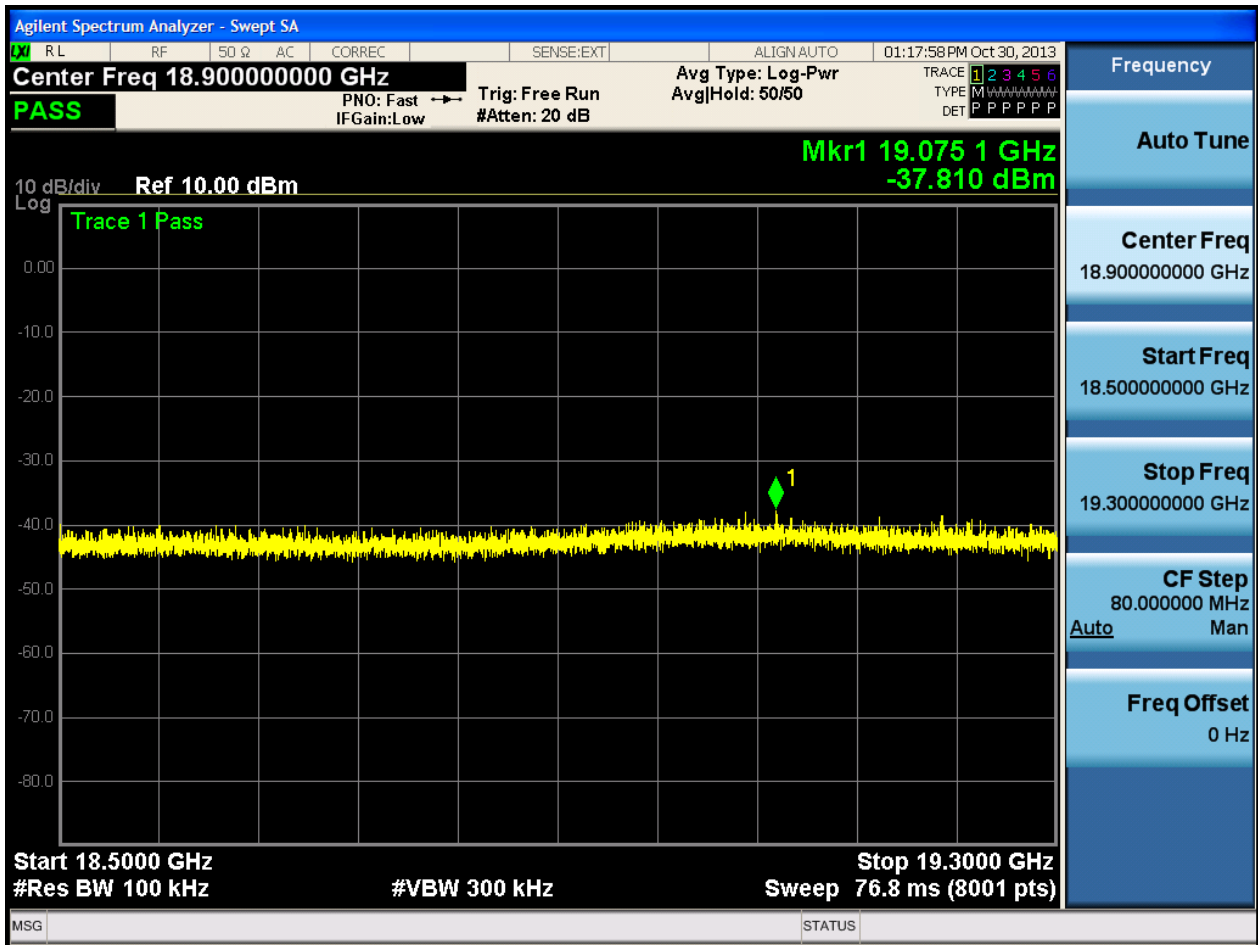


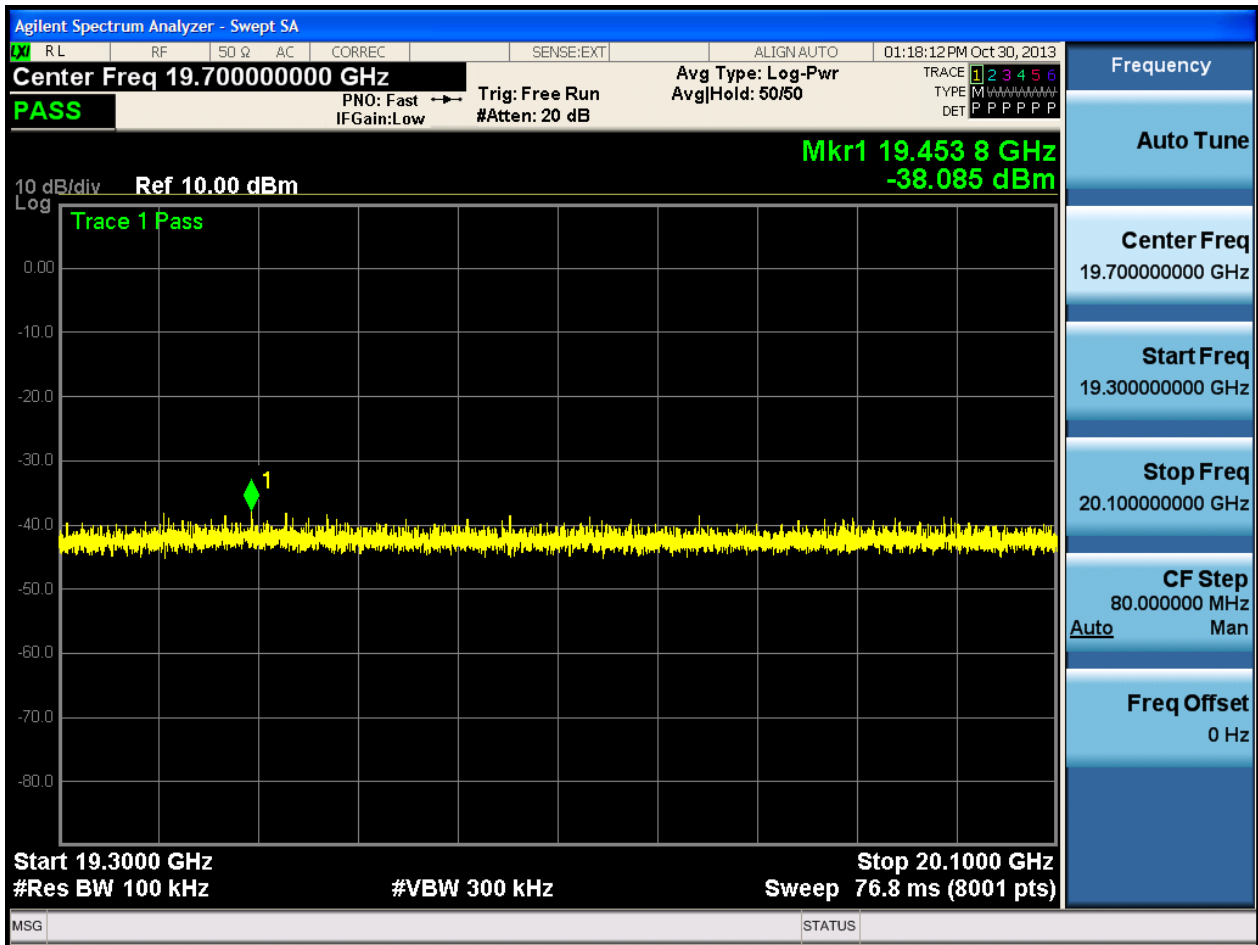


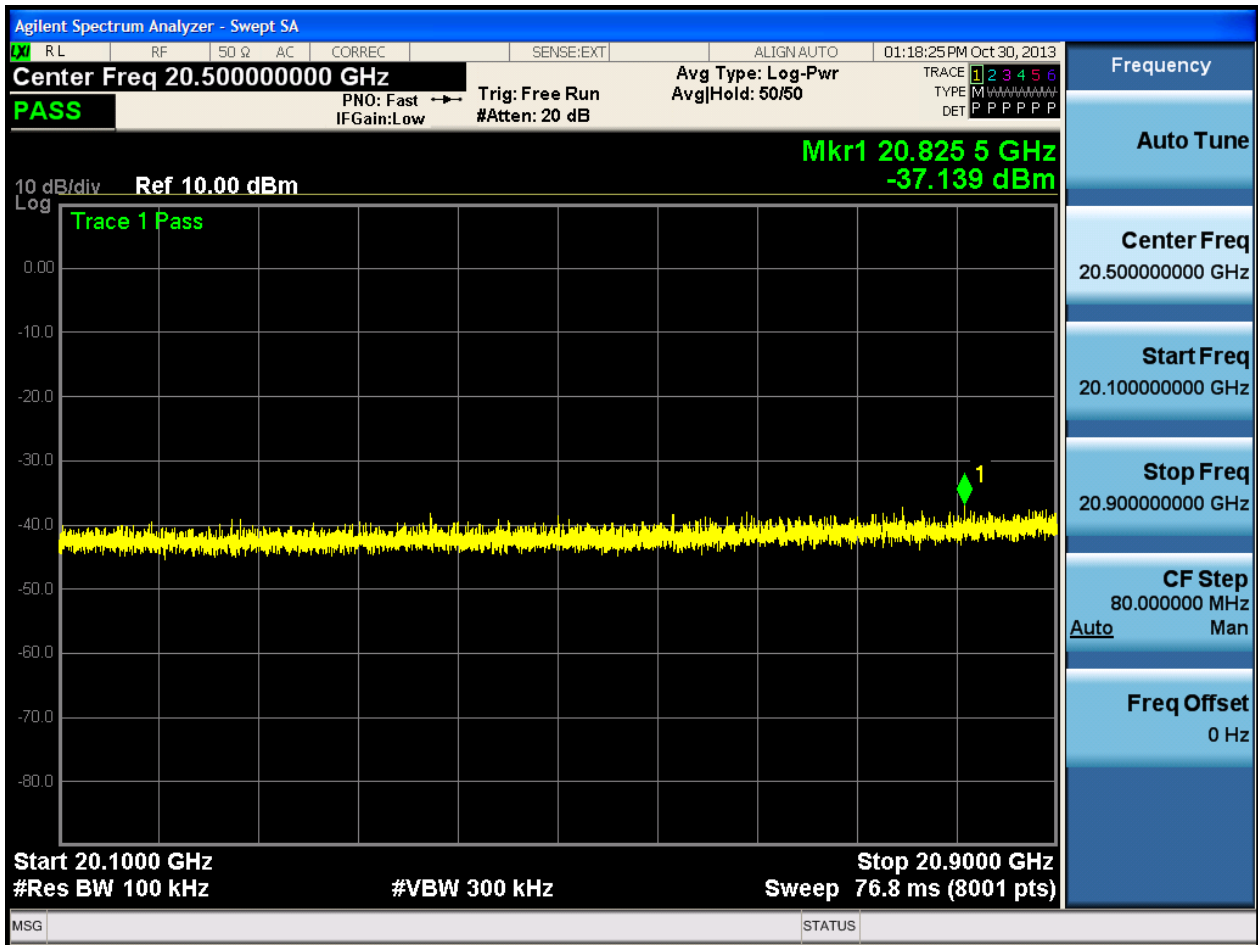


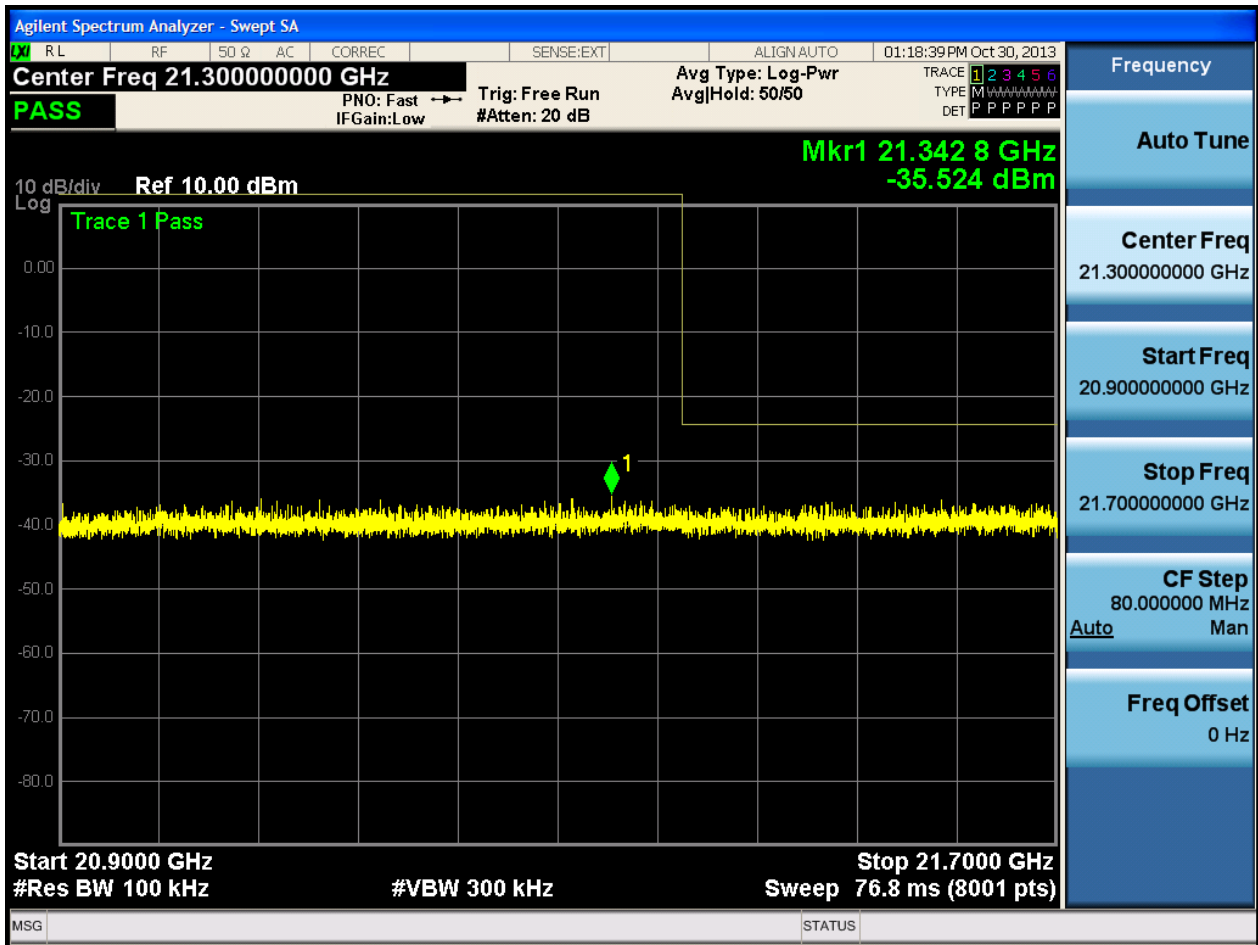


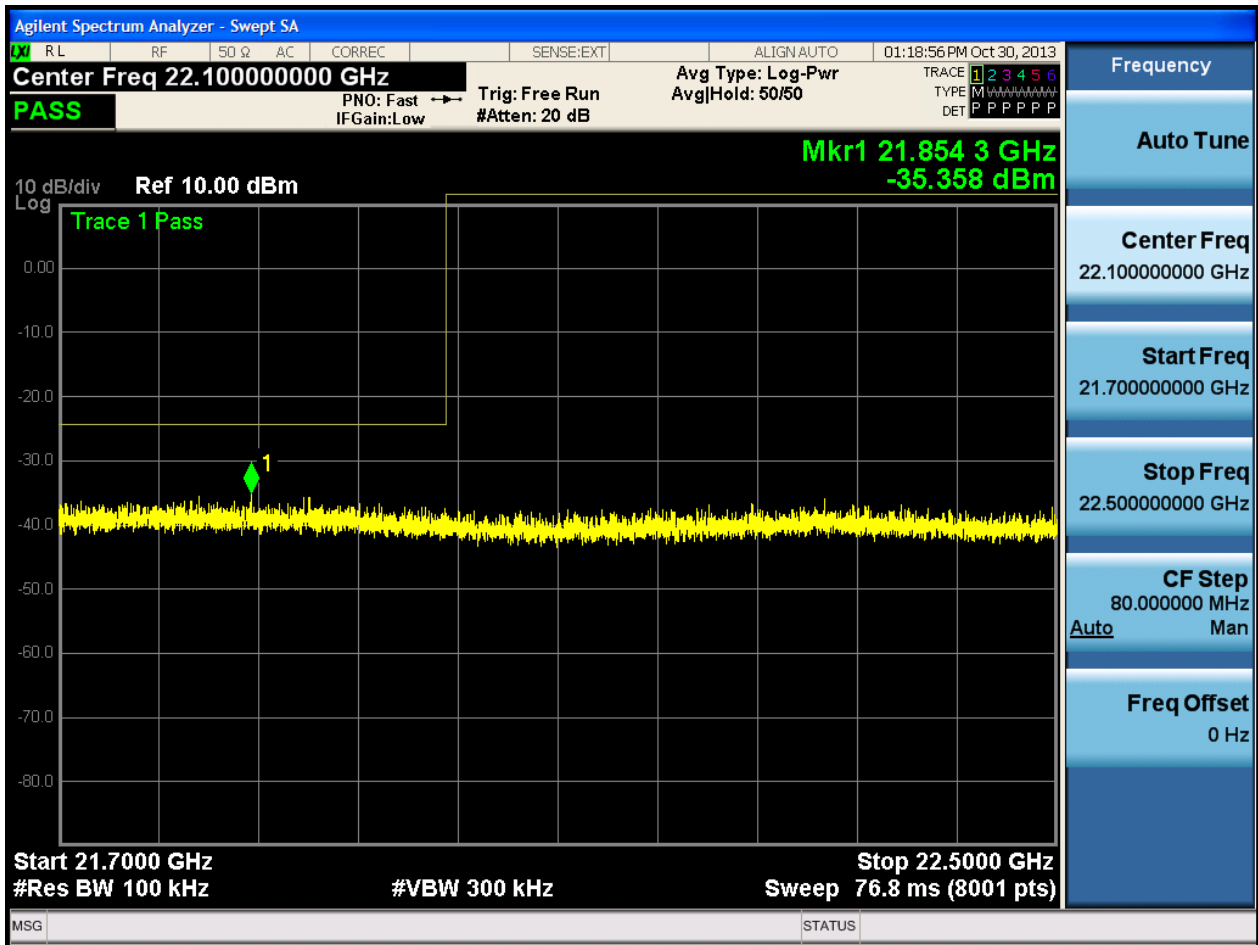


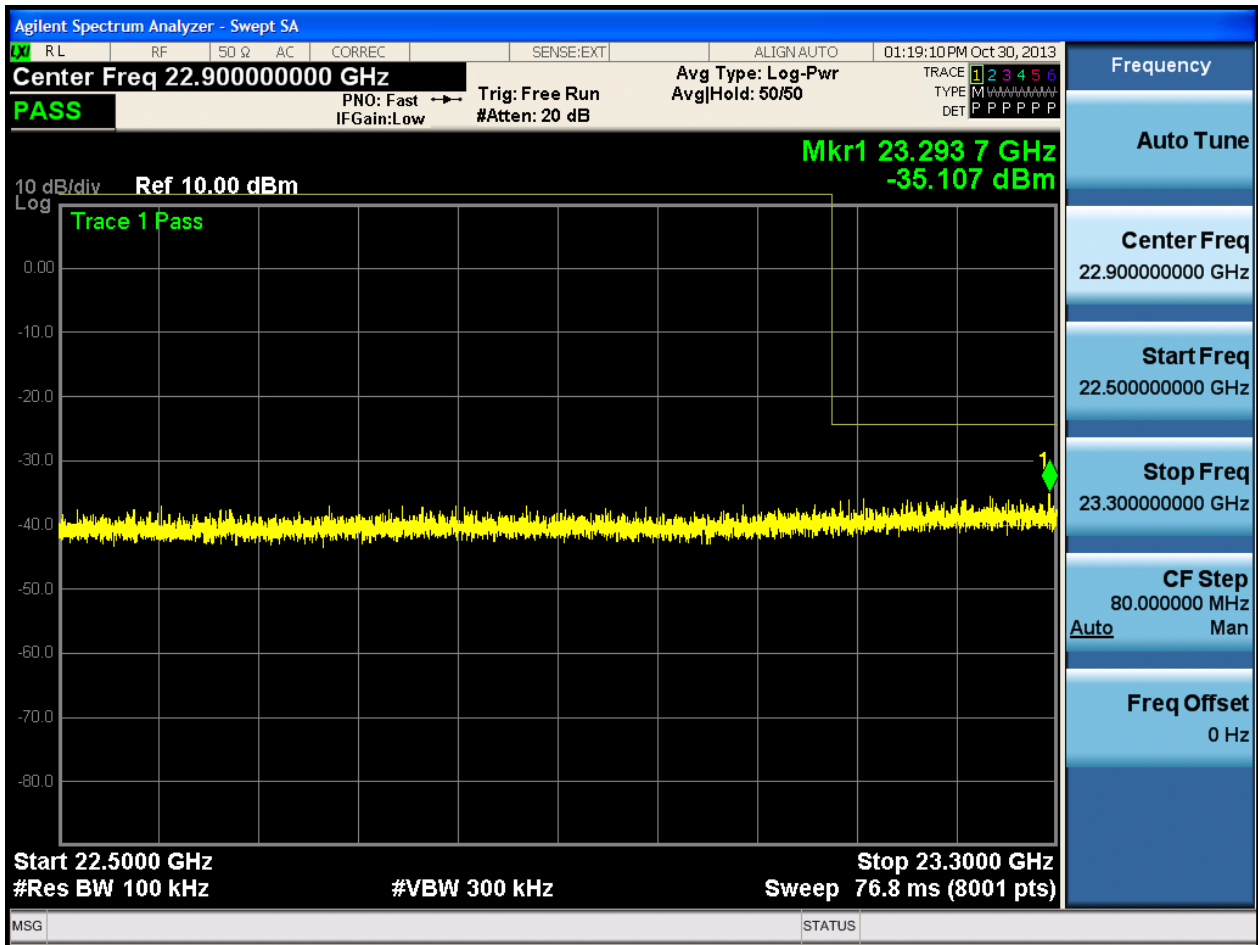


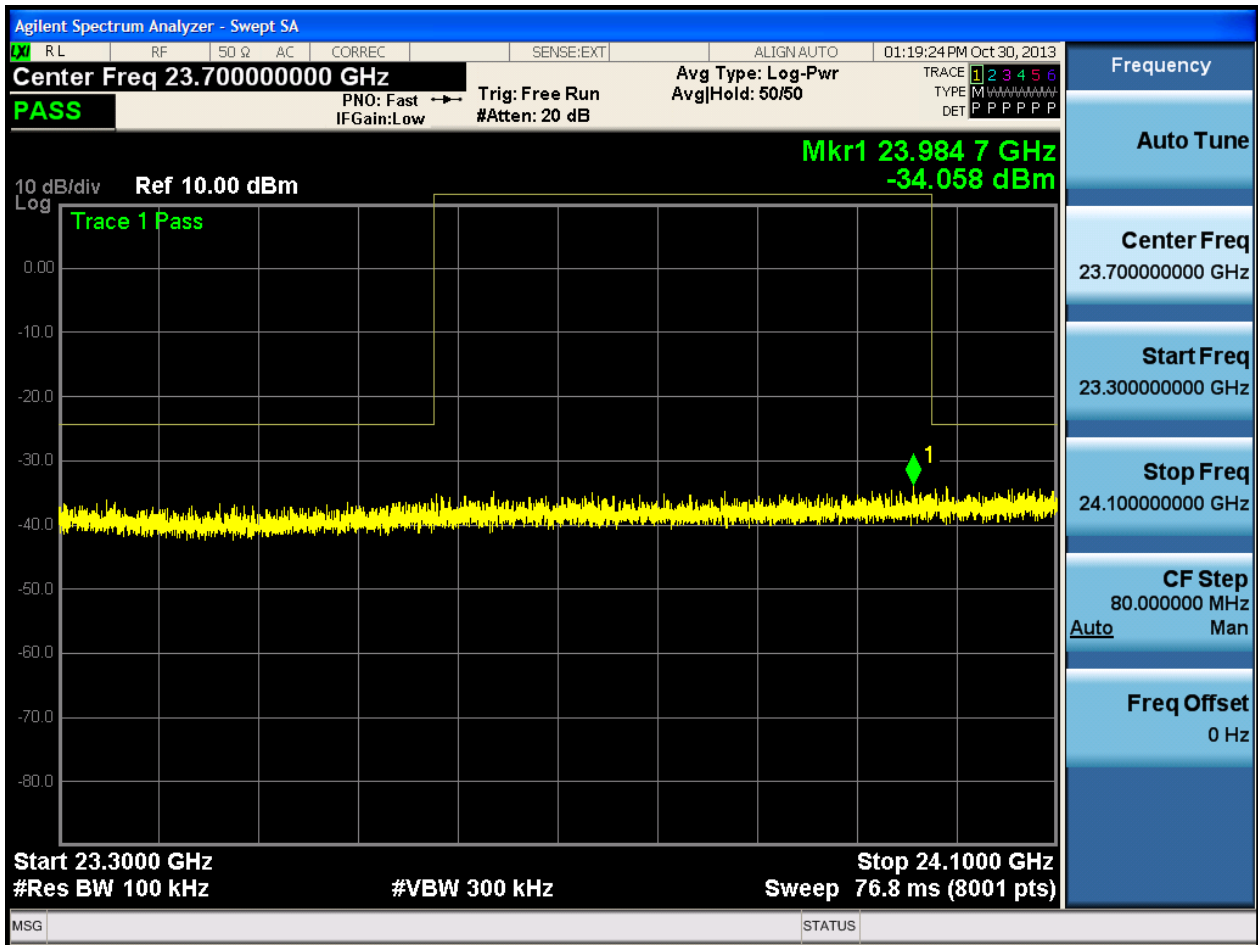


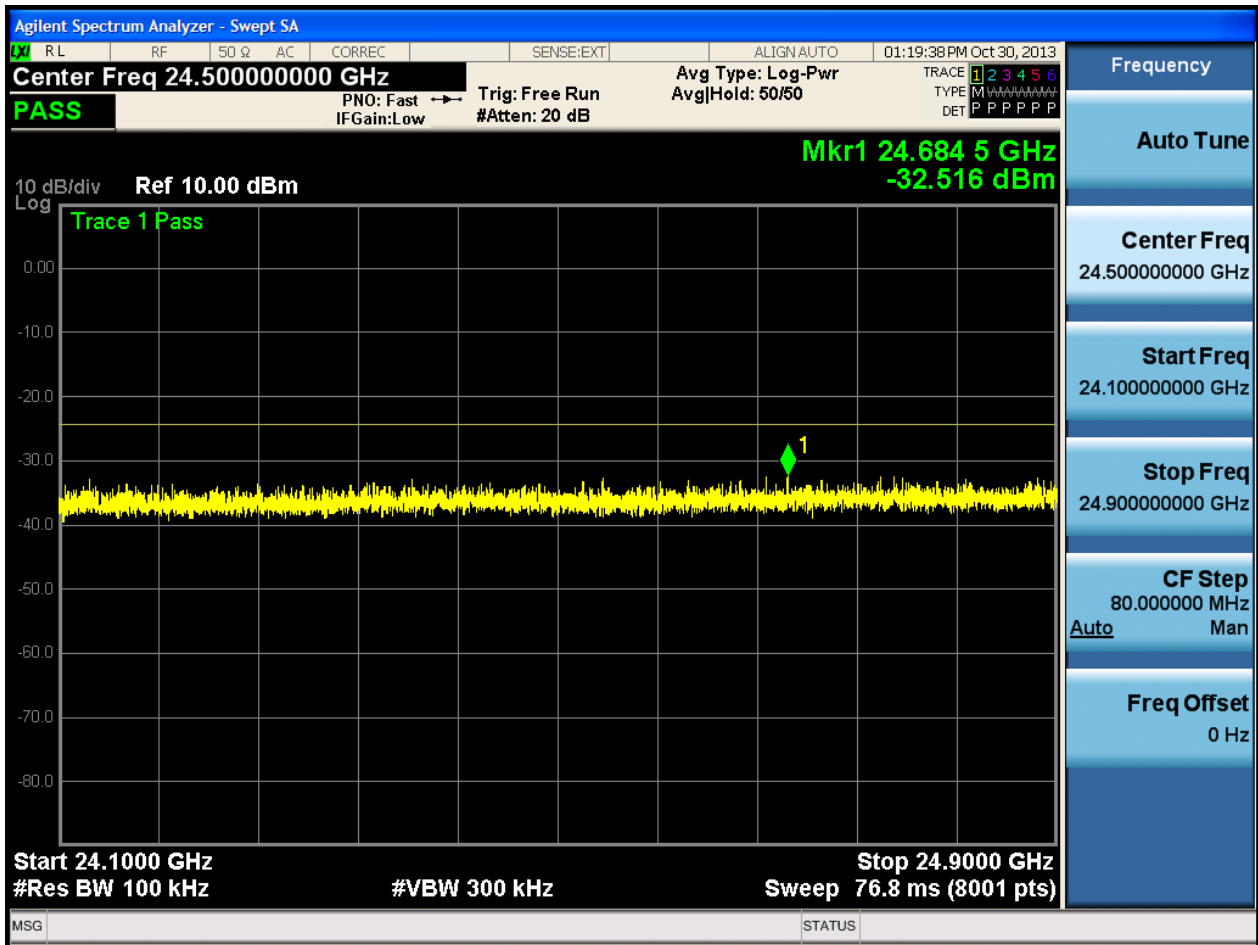


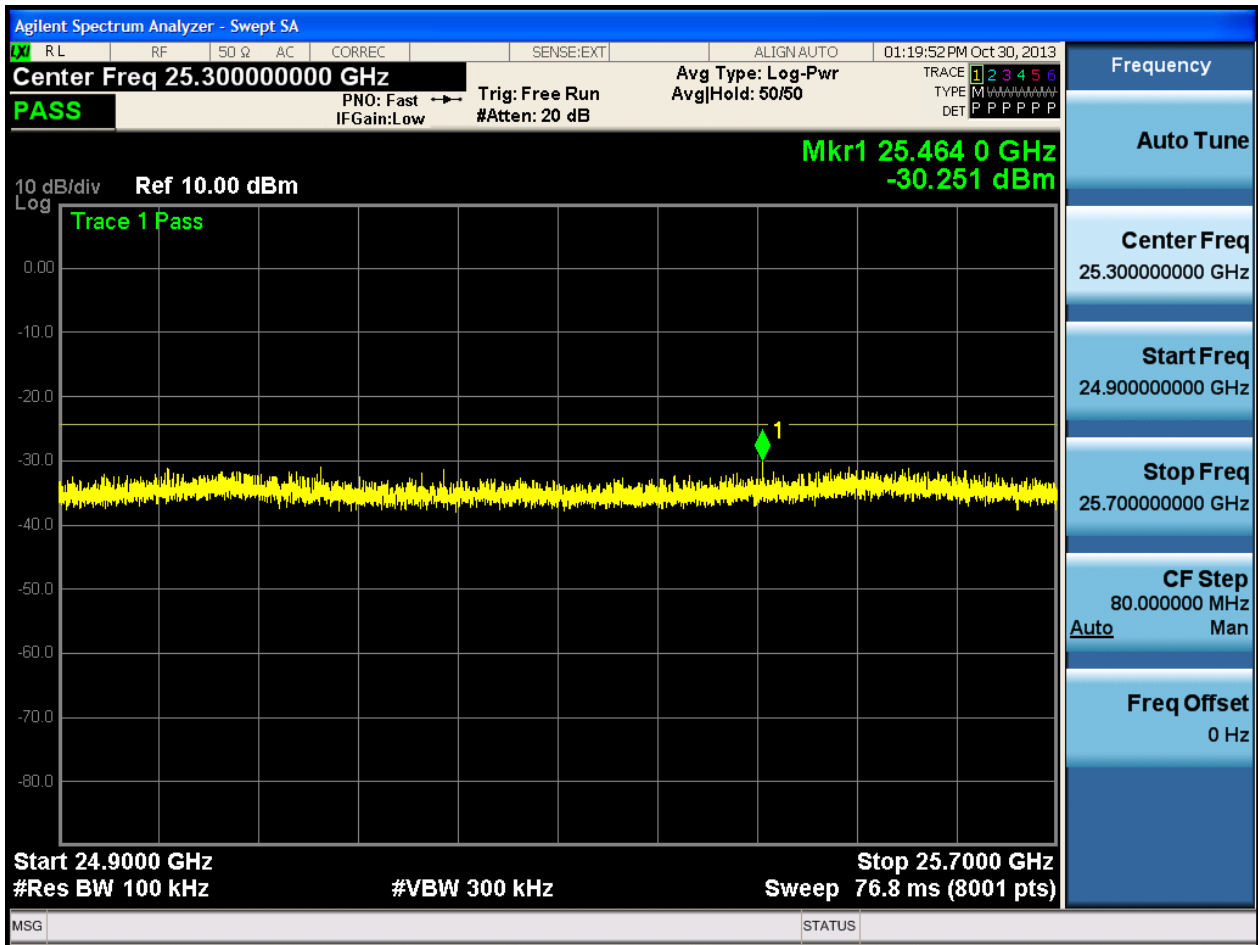


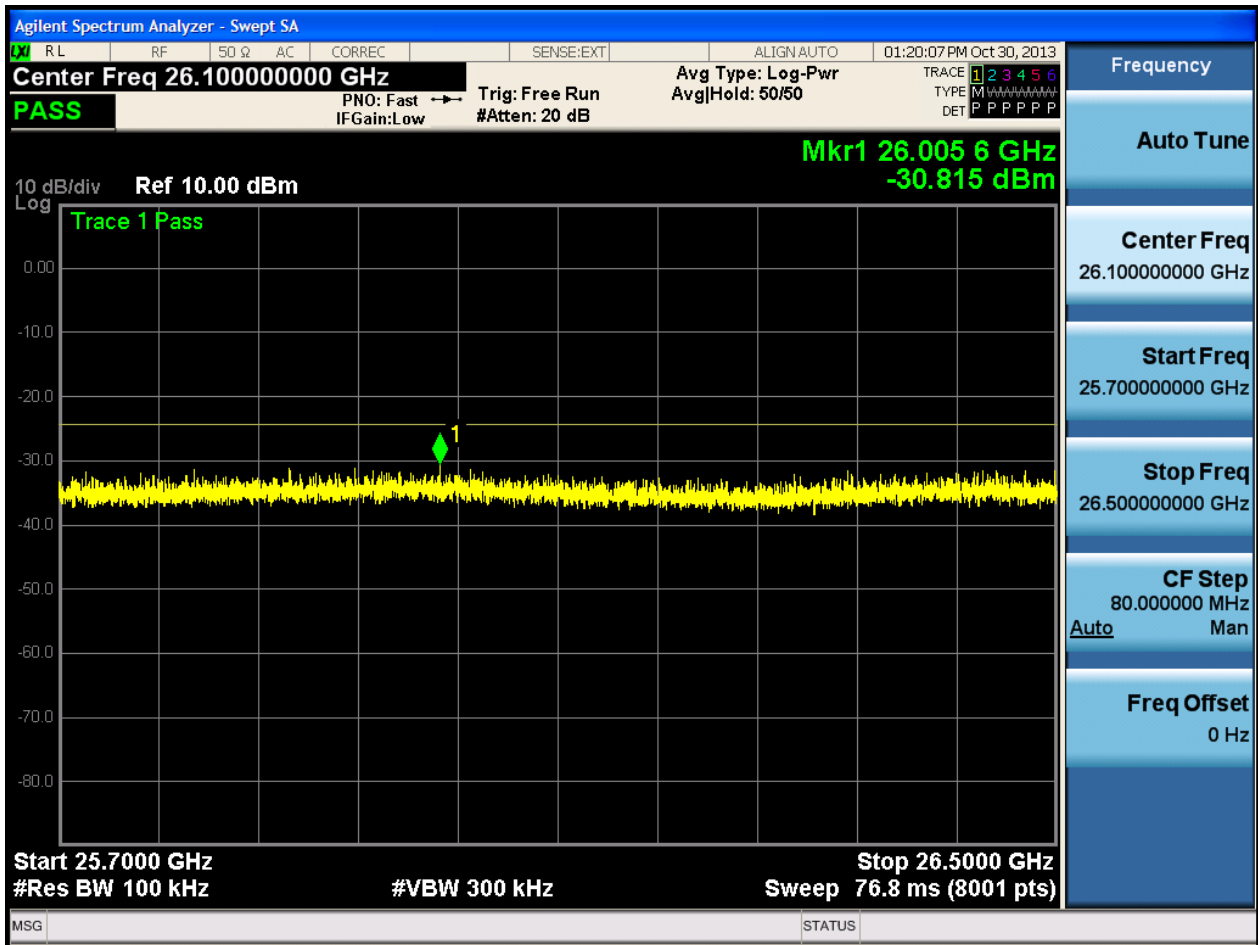














Annex F: Unwanted Emissions into Restricted Frequency Bands

The whole testing range is divided into several parts according to the test site settings for radiated measurement, which are:

- Test range of “30 MHz to 1 GHz”,
- Test range of “1 GHz to 3 GHz”,
- Test range of “3 GHz to 18 GHz”, and
- Test range of “18 GHz to 26.5 GHz”.

According to FCC KDB 558074, the limit for antenna-port conducted measurement may be converted by the formula of “ $\text{Plim [dBm]} = \text{Elim [dB}\mu\text{V/m]} + 20 \times \lg(d [\text{m}]) - 104.8 [\text{dB}] - G [\text{dBi}] - \text{factor [dB]}$ ”, where:

- “Plim” denotes the antenna-port conducted limit,
- “Elim” denotes the electric field strength limit,
- “d” denotes the measurement distance for radiated measurement,
- “G” denotes the antenna gain (max per port), or 2 dBi, whichever is greater, and
- “factor” denotes the factor to model worst-case ground reflections, that is 6.0 dB for emissions ≤ 30 MHz, 4.7 dB for emissions > 30 MHz and ≤ 1000 MHz, and 0.0 dB for emissions > 1000 MHz.

The measurement contains two steps:

- For the measurement below 1 GHz:
(Step 1): Pre-measurement with Peak detector and CISPR Quasi-peak limit;
(Step 2): if needed, measurement with CISPR Quasi-peak detector and limit based on the Step 1.
- For the measurement above 1 GHz:
(Step 1): measurement with Average detector and Average limit;
(Step 2): measurement with Peak detector and Peak limit.

The measurement of unwanted emissions at the edge of the authorized frequency bands can be complicated by the leakage of RF energy from the fundamental emission into the RBW passband. For measurements at the band edges, a narrower RBW is used within the first 1 MHz beyond the fundamental emissions (in this Annex it refers to the range 2483.5 MHz to 2484.5 MHz) and the measured energy is subsequently integrated over the appropriate reference bandwidth (i.e. 1 MHz).

In the result table, the “< Limit” denotes that “Not found obvious spikes or see marked spikes on plots and listed emissions records”.

1 Result Table

Test Range	EUT Conf.	Emissions	Verdict
30 MHz to 1 GHz	Worst Case (TX-B)	< Limit	Pass
1 GHz to 3 GHz	TX-B	< Limit	Pass
	TX-M	< Limit	Pass
	TX-T	< Limit	Pass
3 GHz to 18 GHz	TX-B	< Limit	Pass
	TX-M	< Limit	Pass
	TX-T	< Limit	Pass



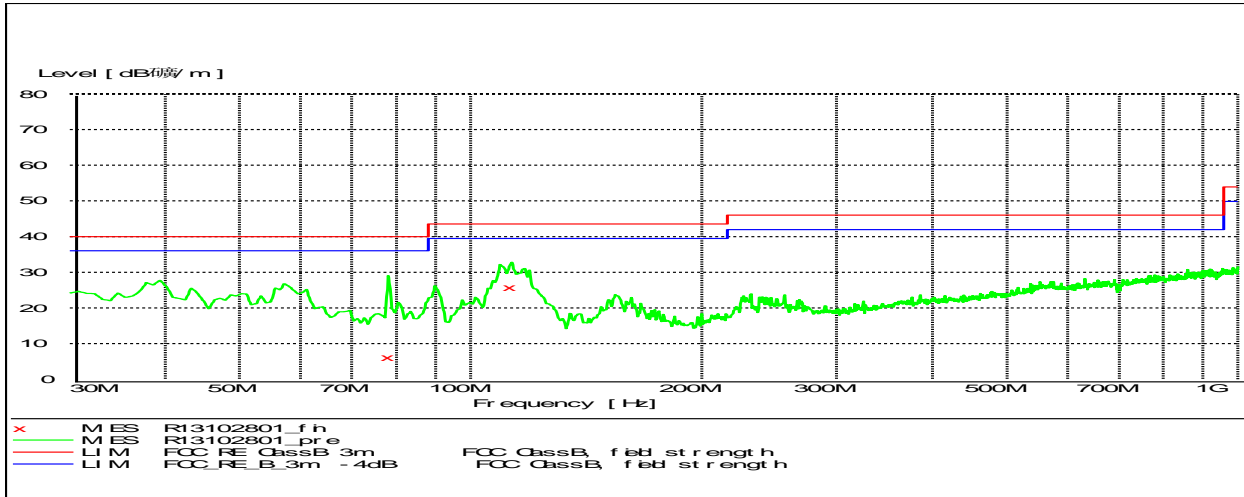
Test Range	EUT Conf.	Emissions	Verdict
18 GHz to 26.5 GHz	Worst Case (TX-B)	< Limit	Pass



1 Result Plot

1.1 Test range of “30 MHz to 1 GHz”

1.1.1 Worst Case (TX-B)



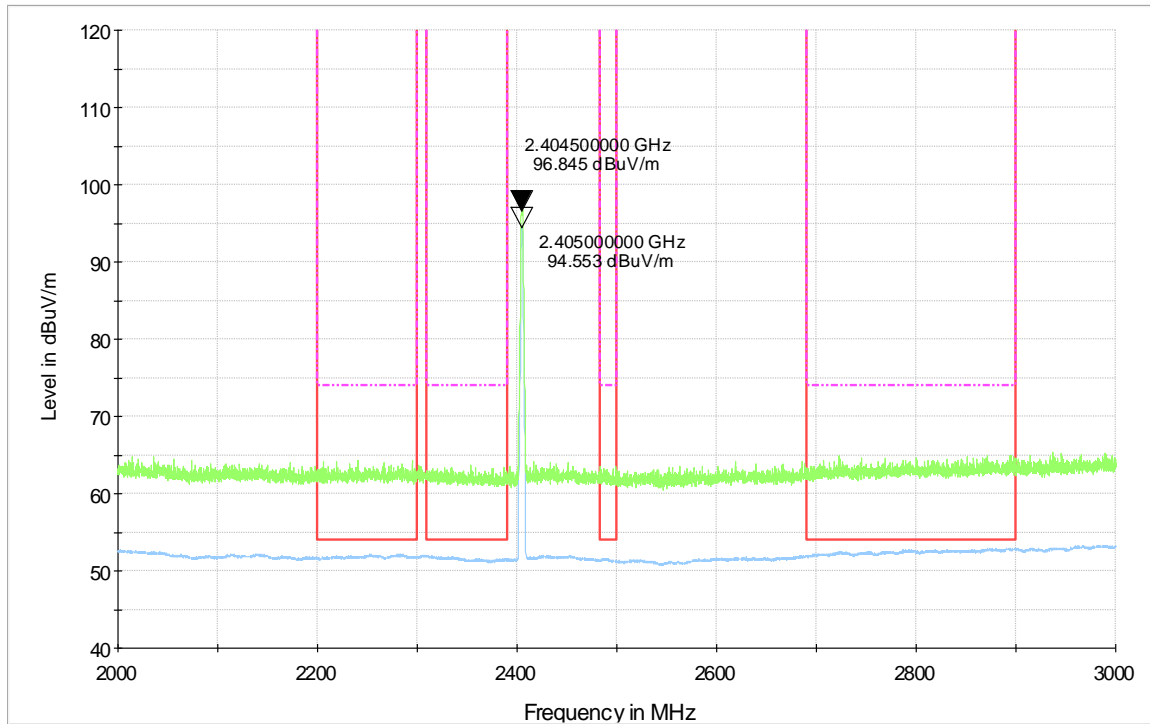
MEASUREMENT RESULT: "R13102801_fin"

2013-10-28 9:23

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBμV/m	dB	dBμV/m	dB	dB	cm	cm	deg
78.240000	6.30	-17.6	40.0	33.7	QP	100.0	87.00	VERTICAL
112.680000	25.70	-14.1	43.5	17.8	QP	100.0	198.00	VERTICAL

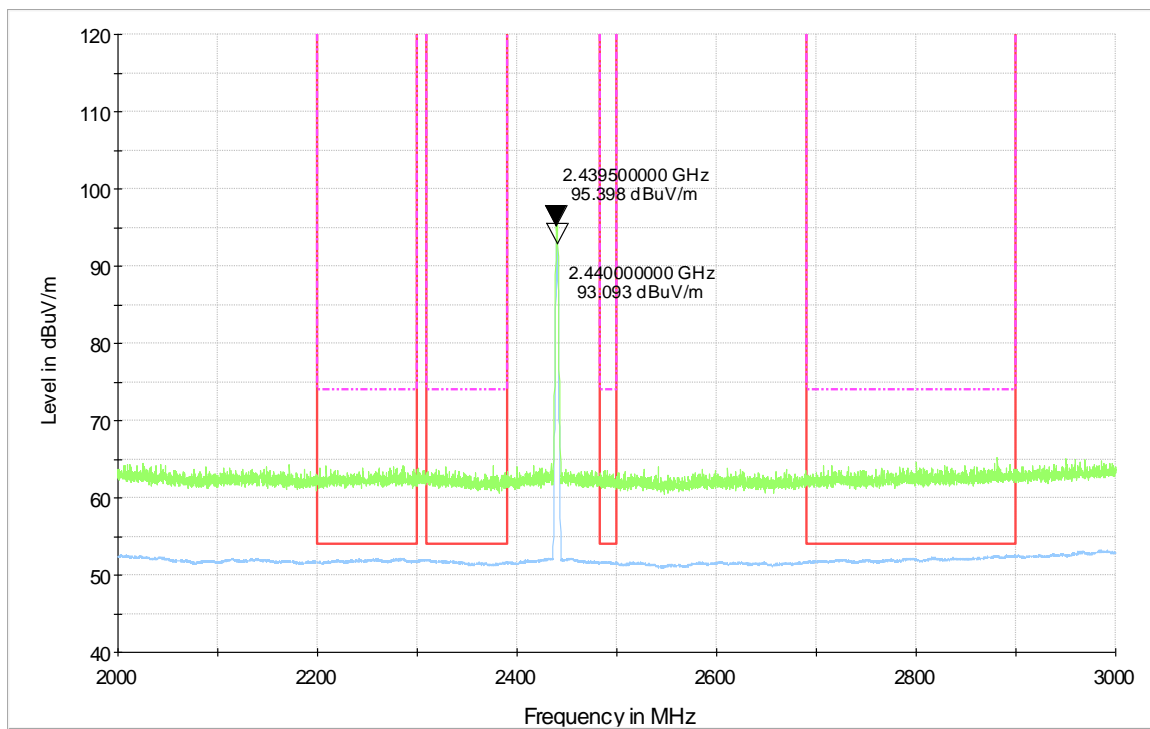
1.2 Test range of “1 GHz to 3 GHz”

1.2.1 TX-B



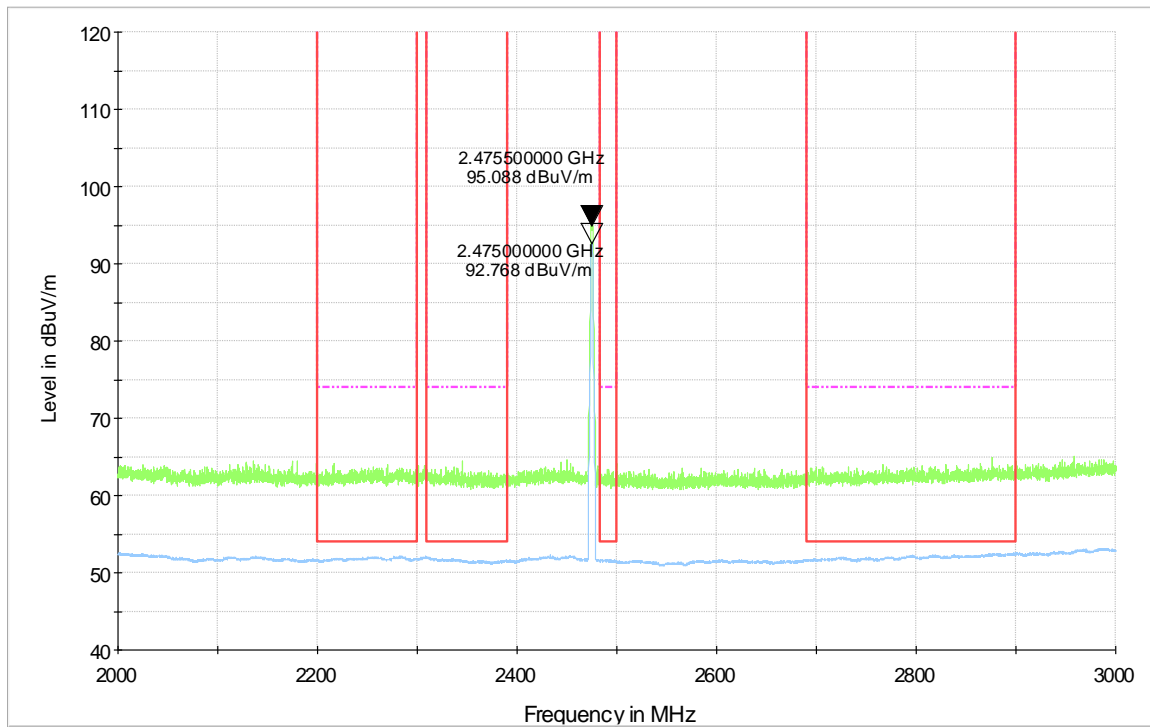
NOTE: Only the ranges near the fundamental frequency are listed.

1.2.2 TX-M



NOTE: Only the ranges near the fundamental frequency are listed.

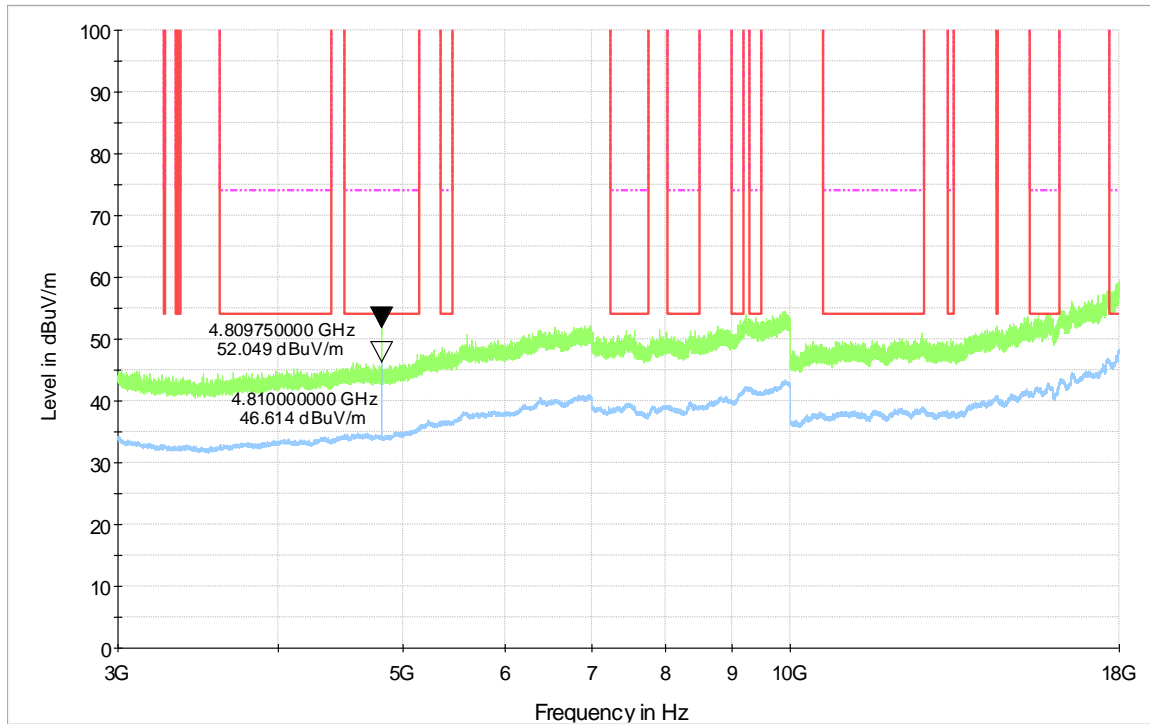
1.2.3 TX-T



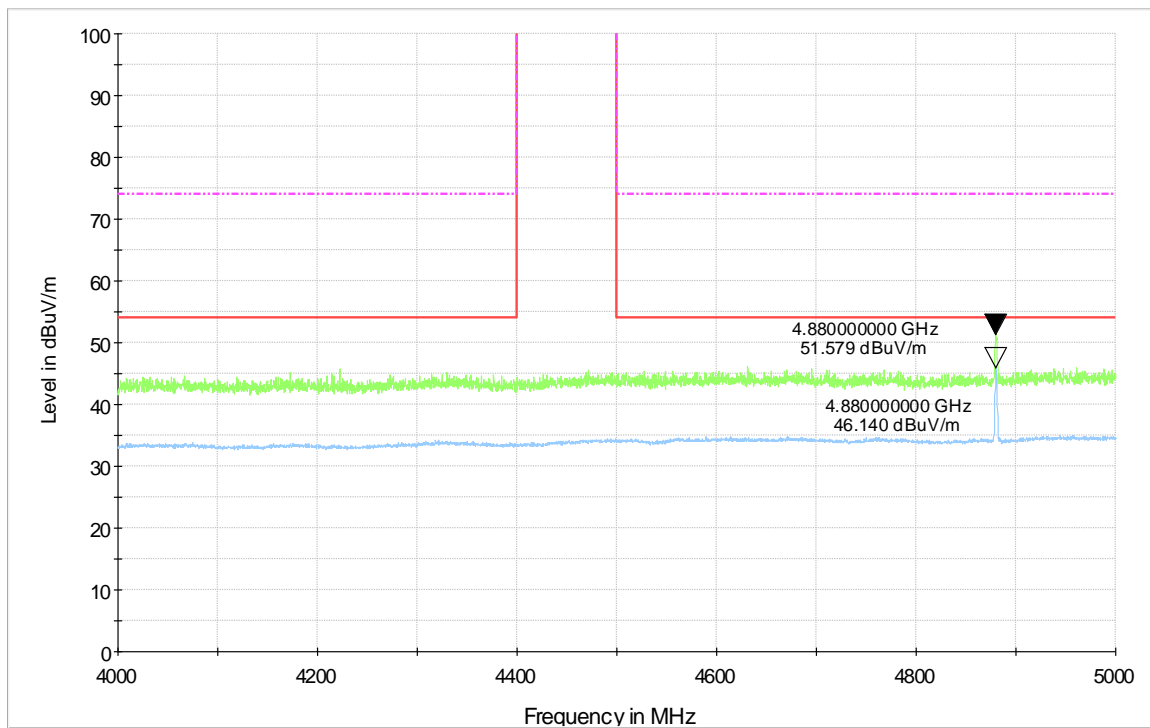
NOTE: Only the ranges near the fundamental frequency are listed.

1.3 Test range of “3 GHz to 18 GHz”

1.3.1 TX-B

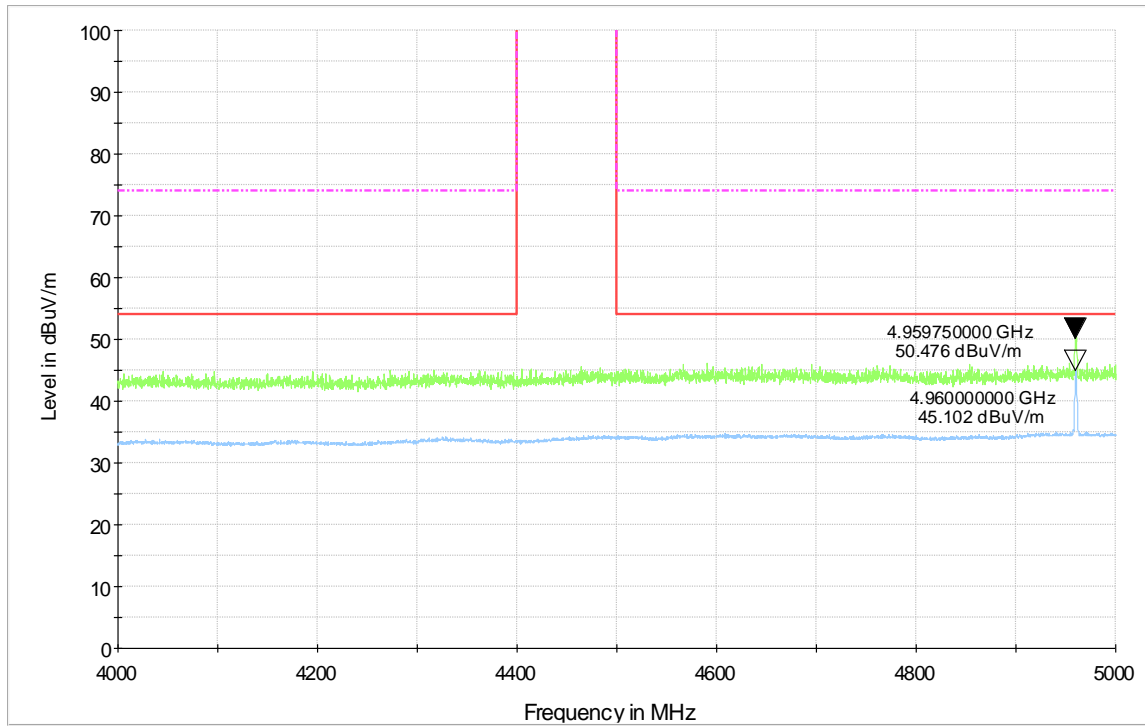


1.3.2 TX-M



NOTE: Only the ranges near the harmonic frequency are listed.

1.3.3 TX-T



NOTE: Only the ranges near the harmonic frequency are listed.

1.4 Test range of “18 GHz to 26.5 GHz”

1.4.1 Worst Case (TX-B)

(No obvious emissions found)



Annex G: AC Power Line Conducted Emissions



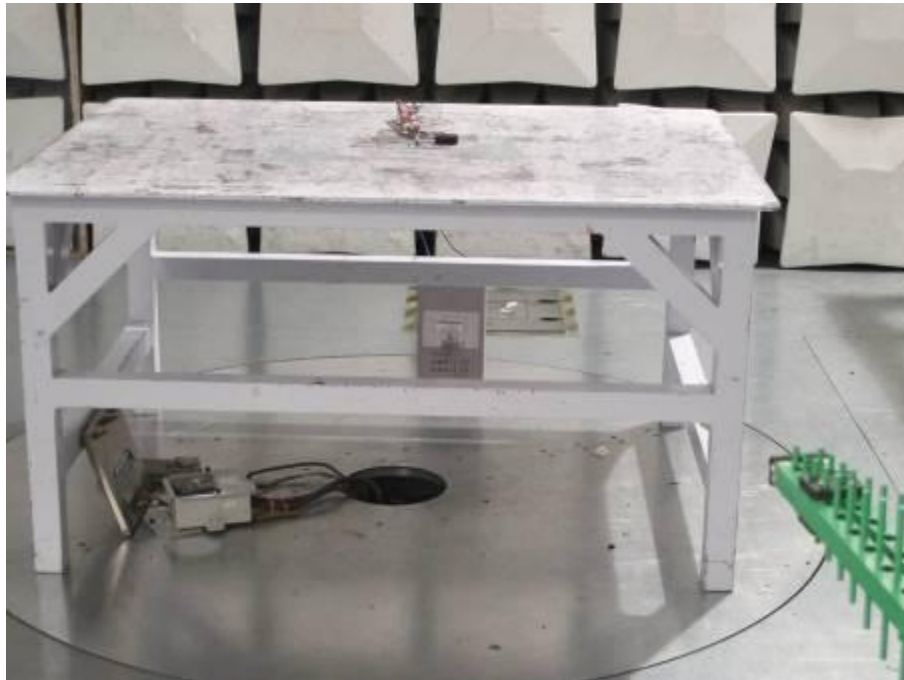
(Not applicable for EUT that is not AC powered.)



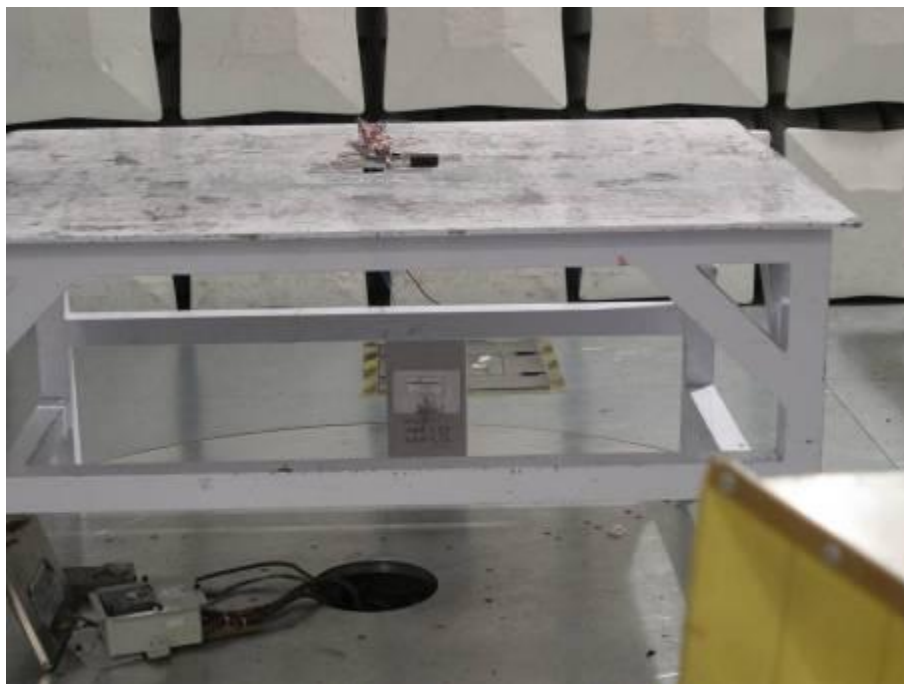
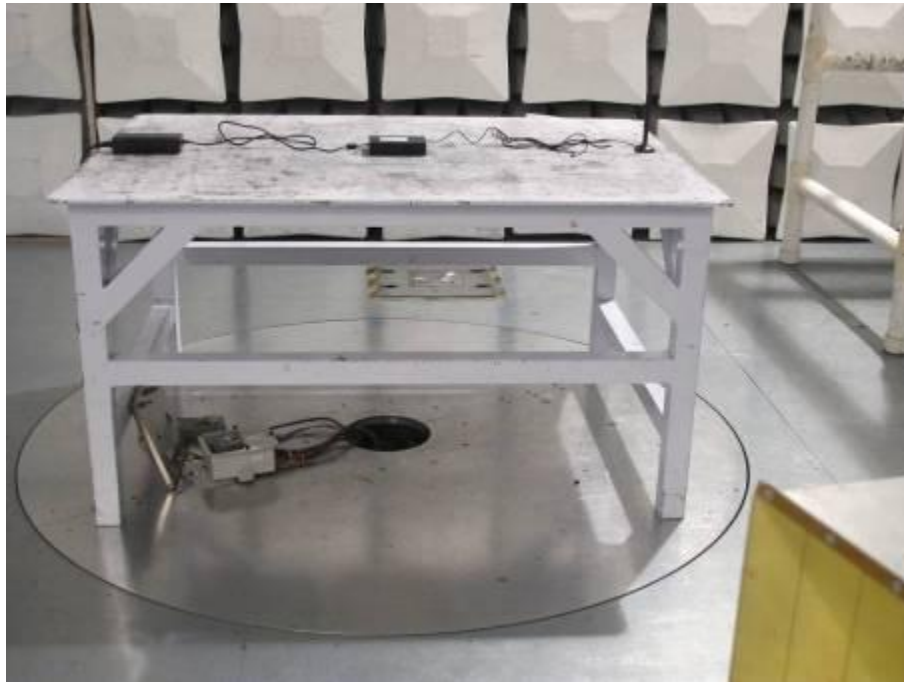
Annex H: Photos of Test Setups

1 Test Setup 2

1.1 Measurement Setup below 1 GHz



1.2 Measurement Setup above 1 GHz





2 Test Setup 3

(Not applicable)

END