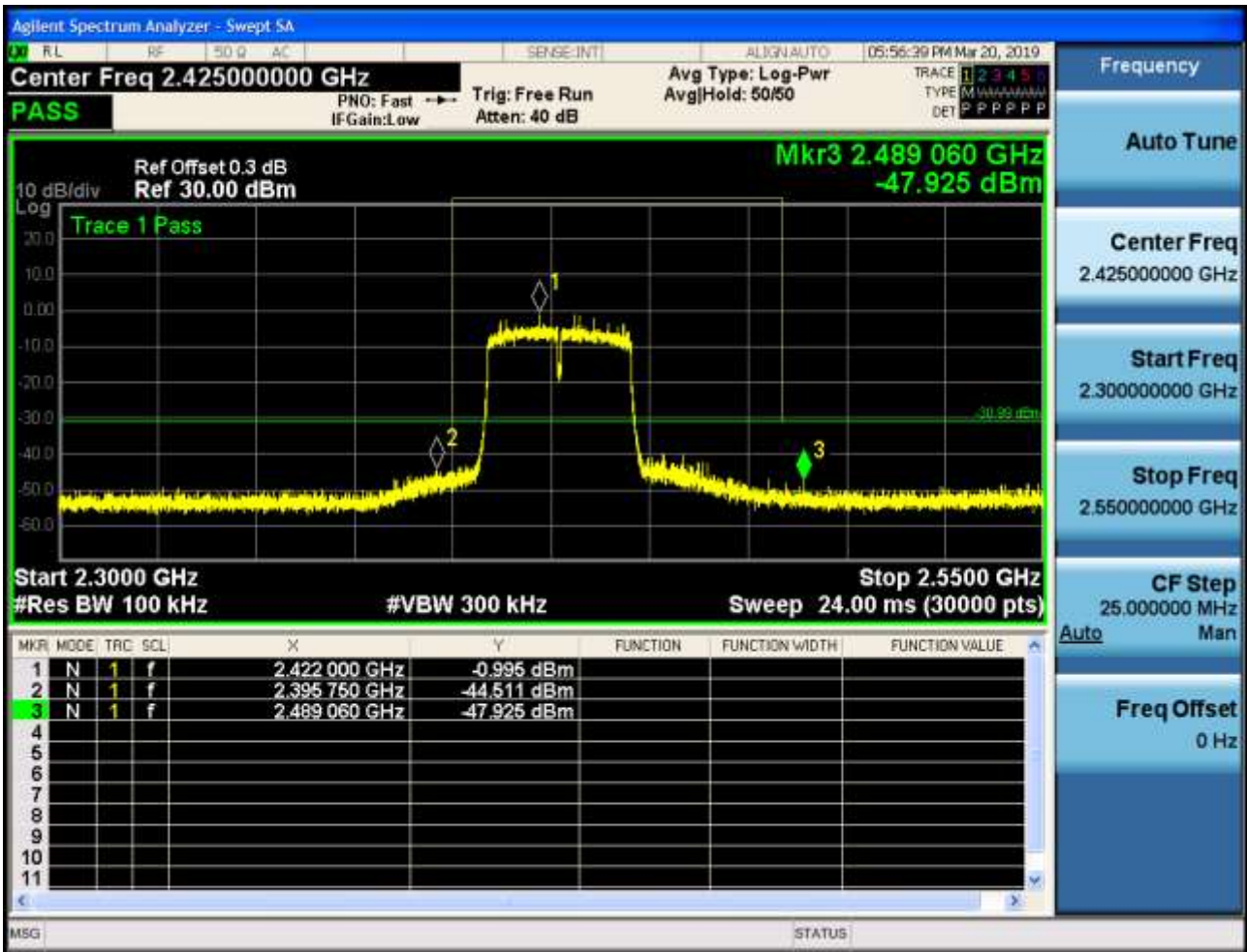
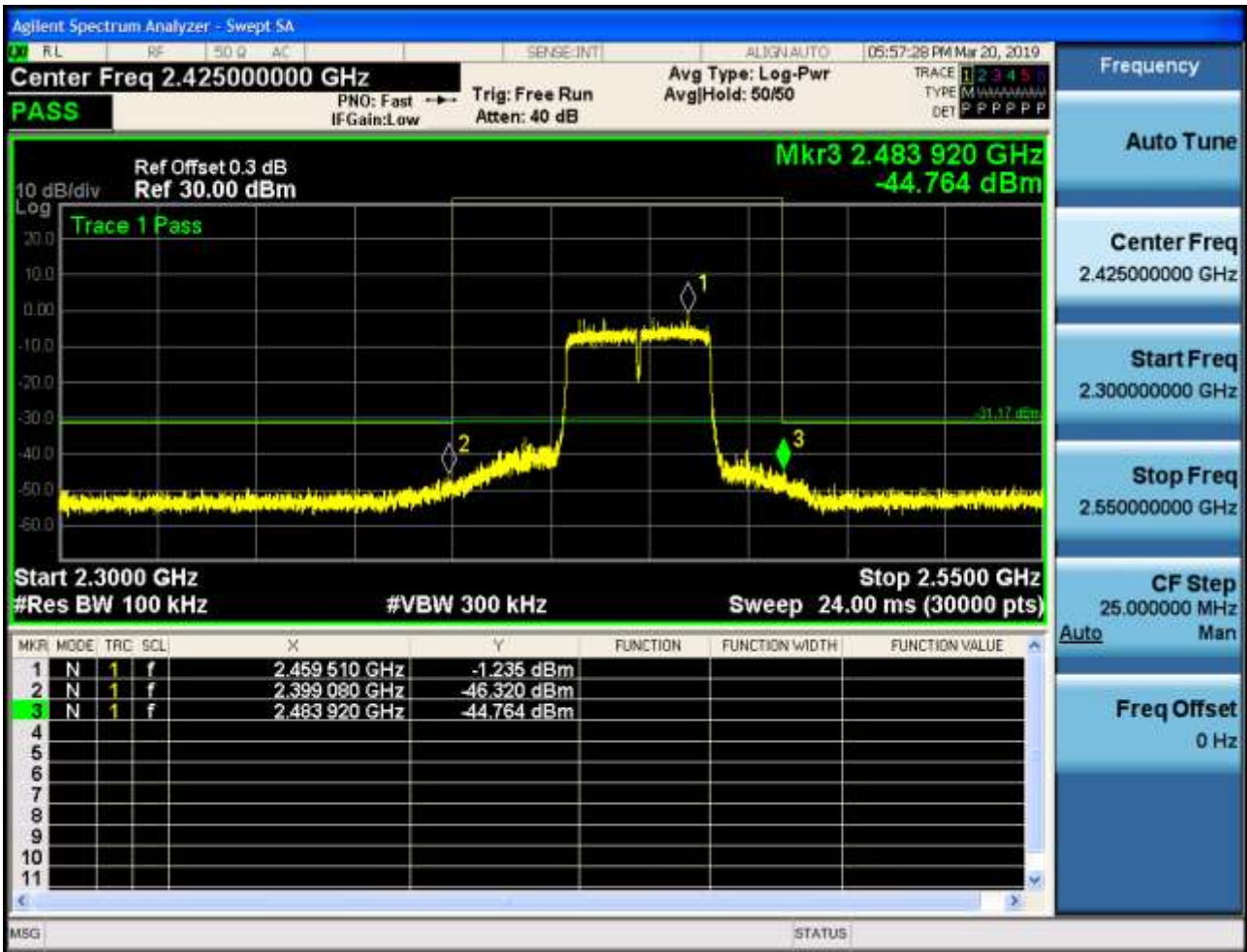


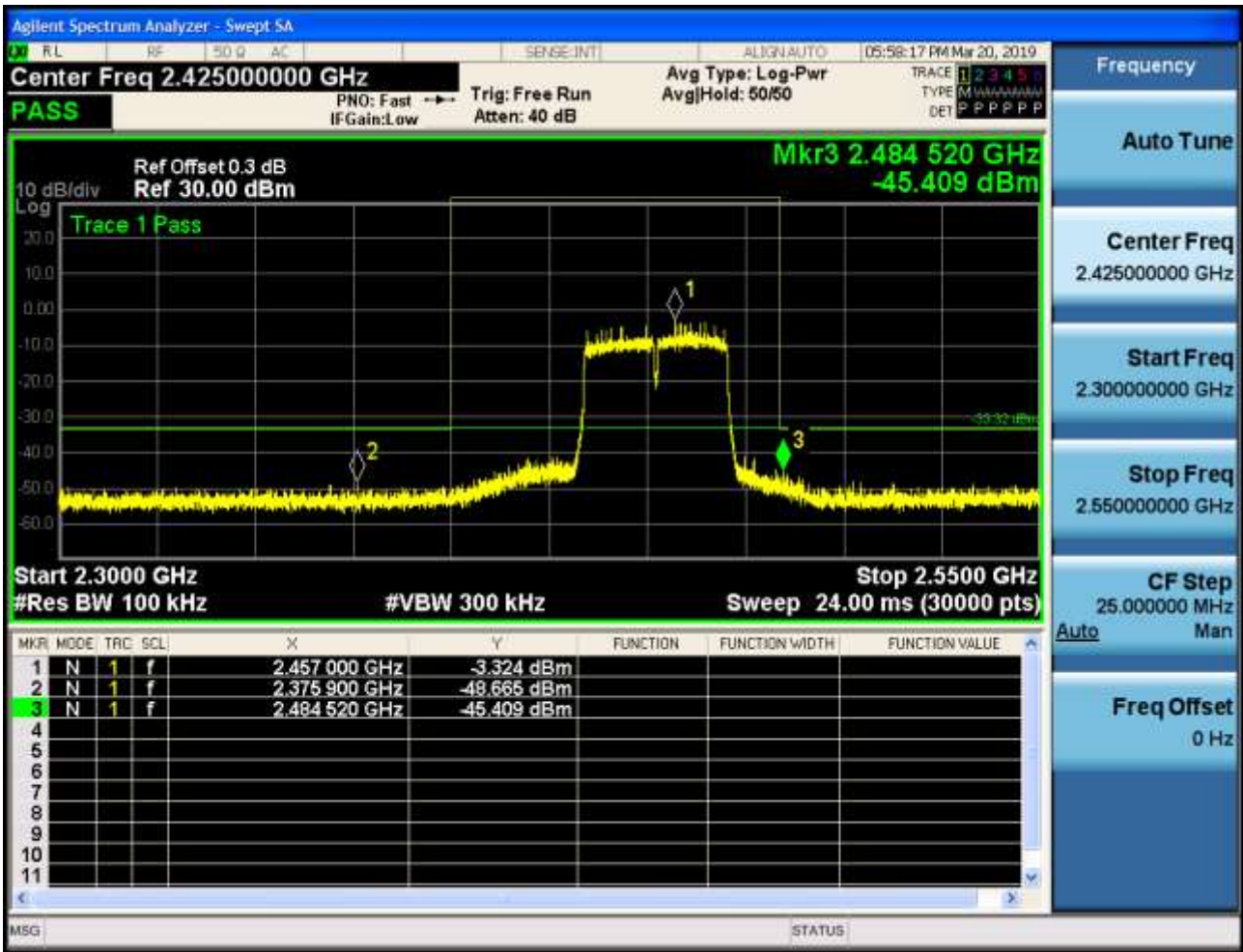
1.12 11N40SISO_Ant1_2427



1.13 11N40SISO_Ant1_2447



1.14 11N40SISO_Ant1_2452



Appendix G: Unwanted Emissions into Non-Restricted Frequency

Bands

In this Appendix, 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 Appendix, 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.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain and used as respective results for each chain, due to the relative-limit requirement.

In the result table, the "< Limit" denotes that "The Puw [dBm] is less than Pref[dBm]-30 [dBm], see Test Graphs for detailed"

Part I - Test Results

Test Mode	Antenna	Channel	RefLevel[dBm/100kHz]	Result[dBm]	Limit[dBm/100kHz]	Verdict
11B	Ant1	2412	7.32	<limit	-22.68	PASS
11B	Ant1	2462	7.82	<limit	-22.18	PASS
11G	Ant1	2412	-0.01	<limit	-30.01	PASS
11G	Ant1	2417	-0.21	<limit	-30.21	PASS
11G	Ant1	2457	0.36	<limit	-29.64	PASS
11G	Ant1	2462	0.63	<limit	-29.37	PASS
11N20SISO	Ant1	2412	-0.04	<limit	-30.04	PASS
11N20SISO	Ant1	2417	1.07	<limit	-28.93	PASS
11N20SISO	Ant1	2457	0.55	<limit	-29.45	PASS
11N20SISO	Ant1	2462	0.22	<limit	-29.78	PASS
11N40SISO	Ant1	2422	-1.81	<limit	-31.81	PASS
11N40SISO	Ant1	2427	0.55	<limit	-29.45	PASS
11N40SISO	Ant1	2447	1.23	<limit	-28.77	PASS
11N40SISO	Ant1	2452	-0.53	<limit	-30.53	PASS

Part II - Test Graphs

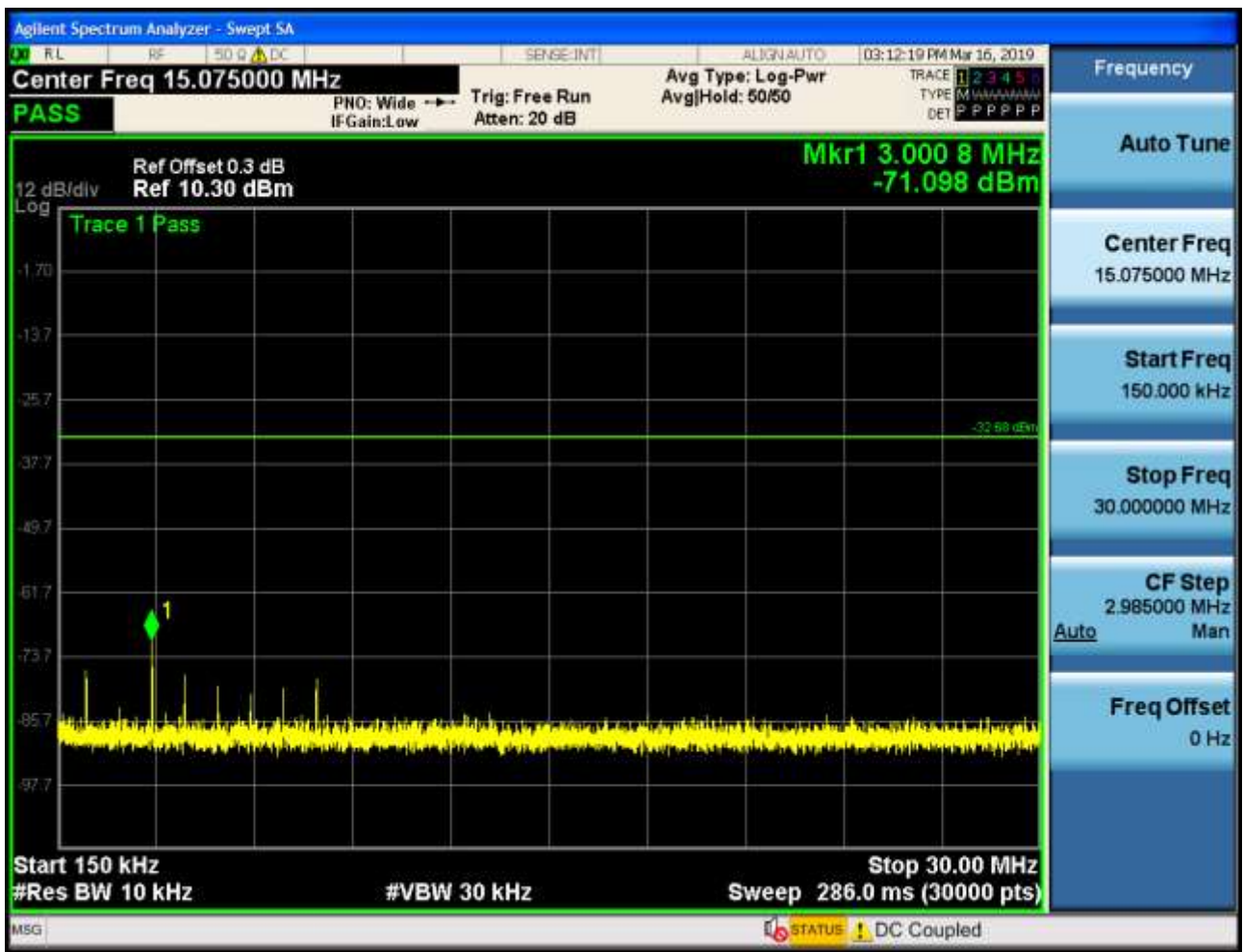
1.3 11B_Ant1_2412

Pref:

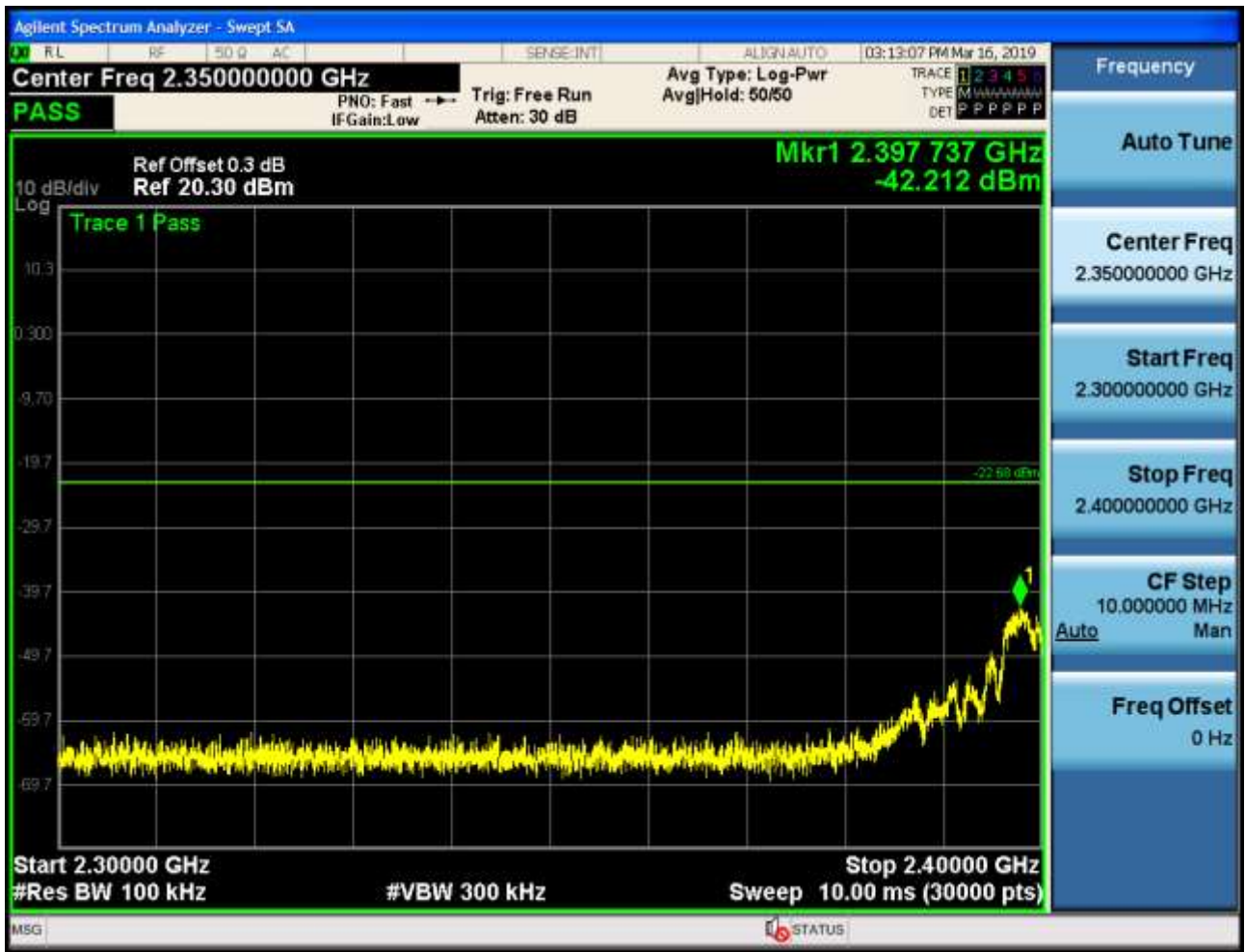


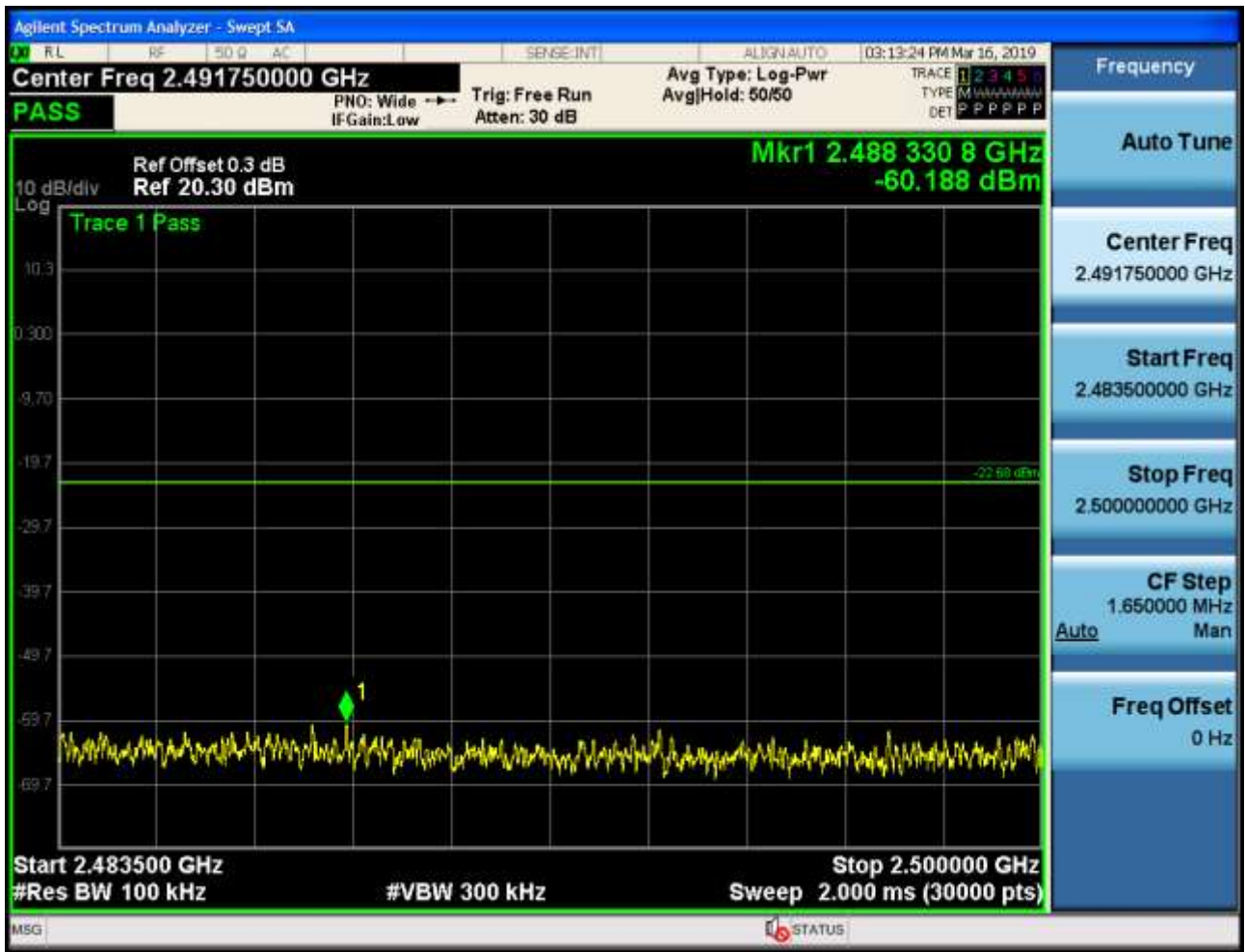
P_{uw}:













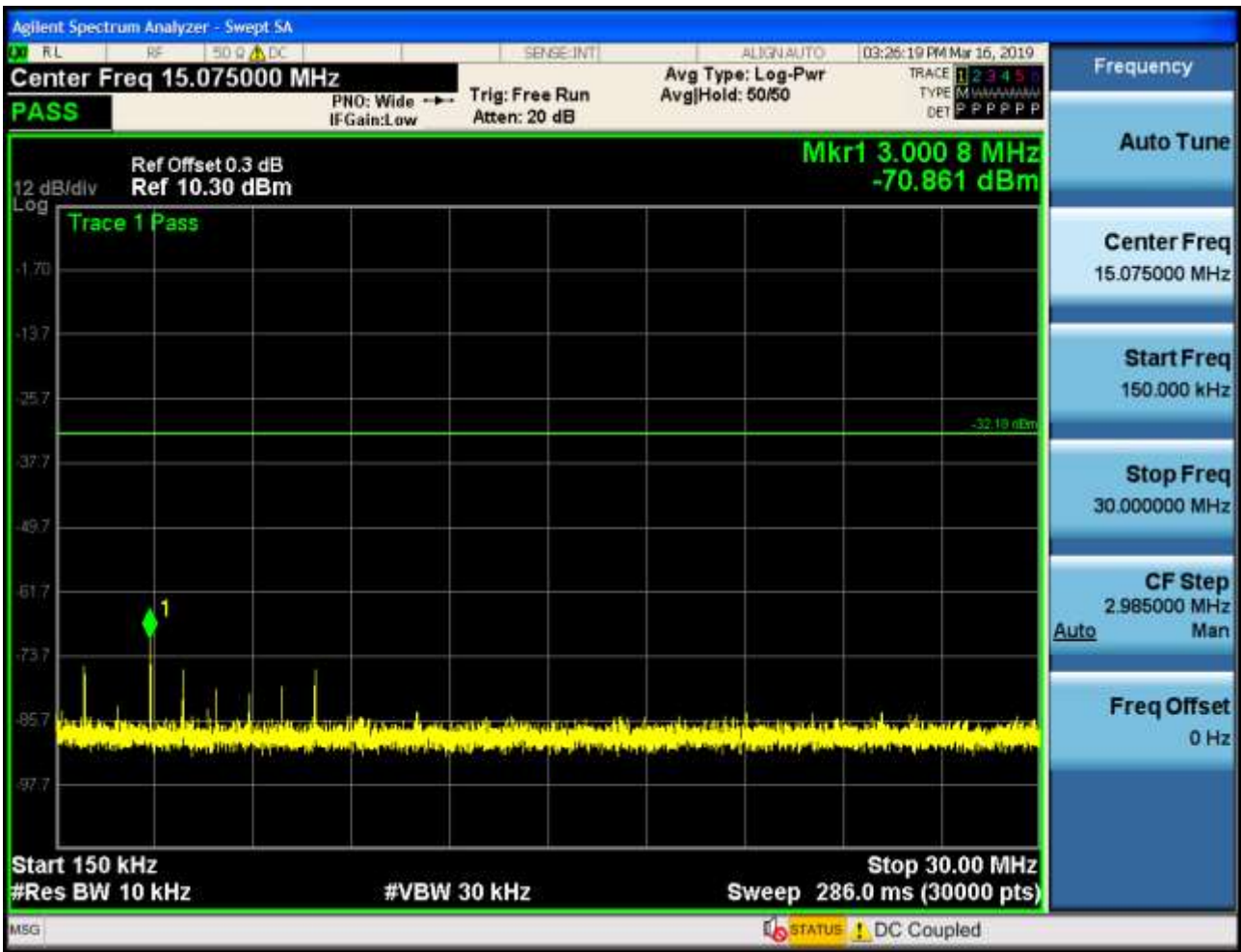
1.2 11B_Ant1_2462

Pref:

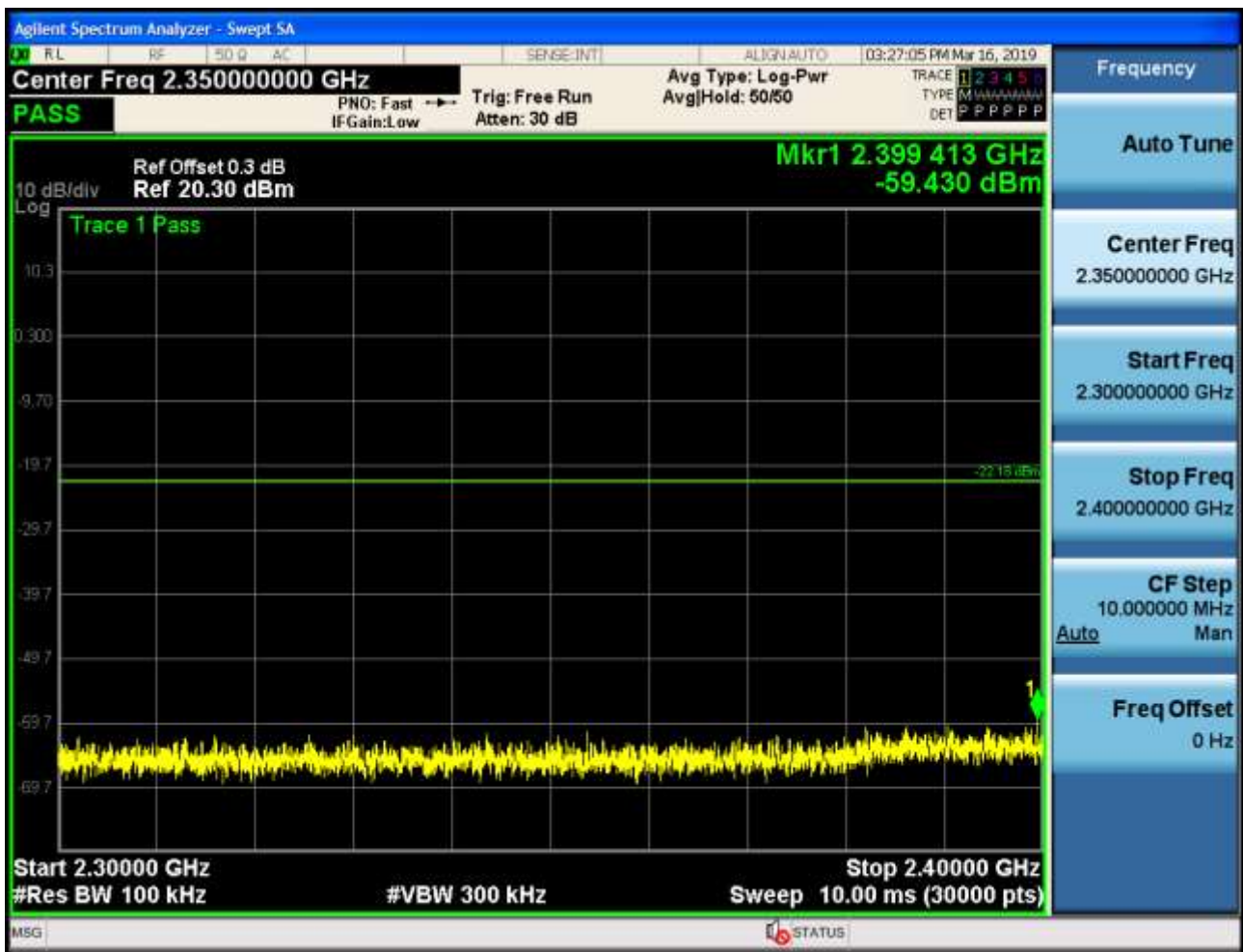


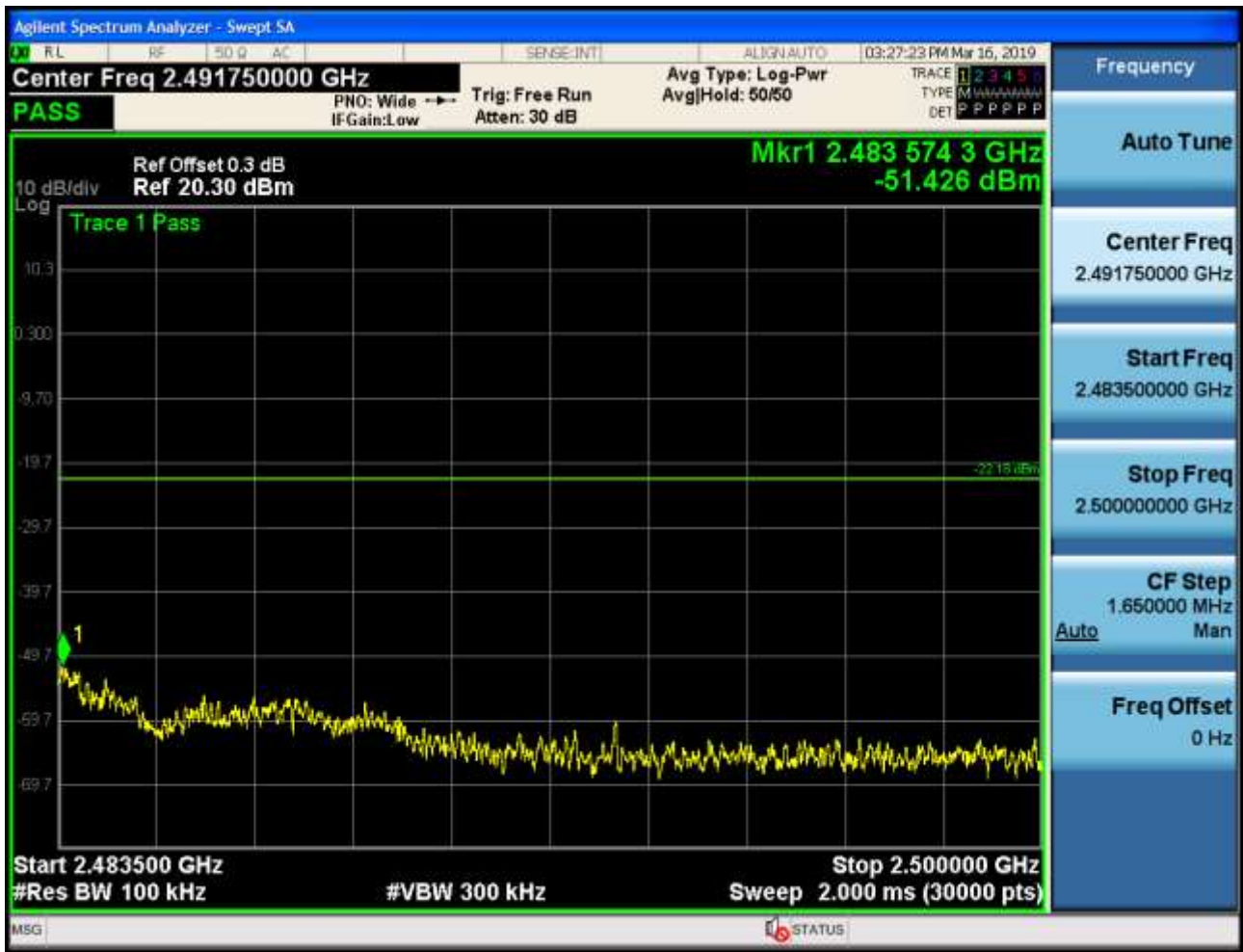
P_{uw}:













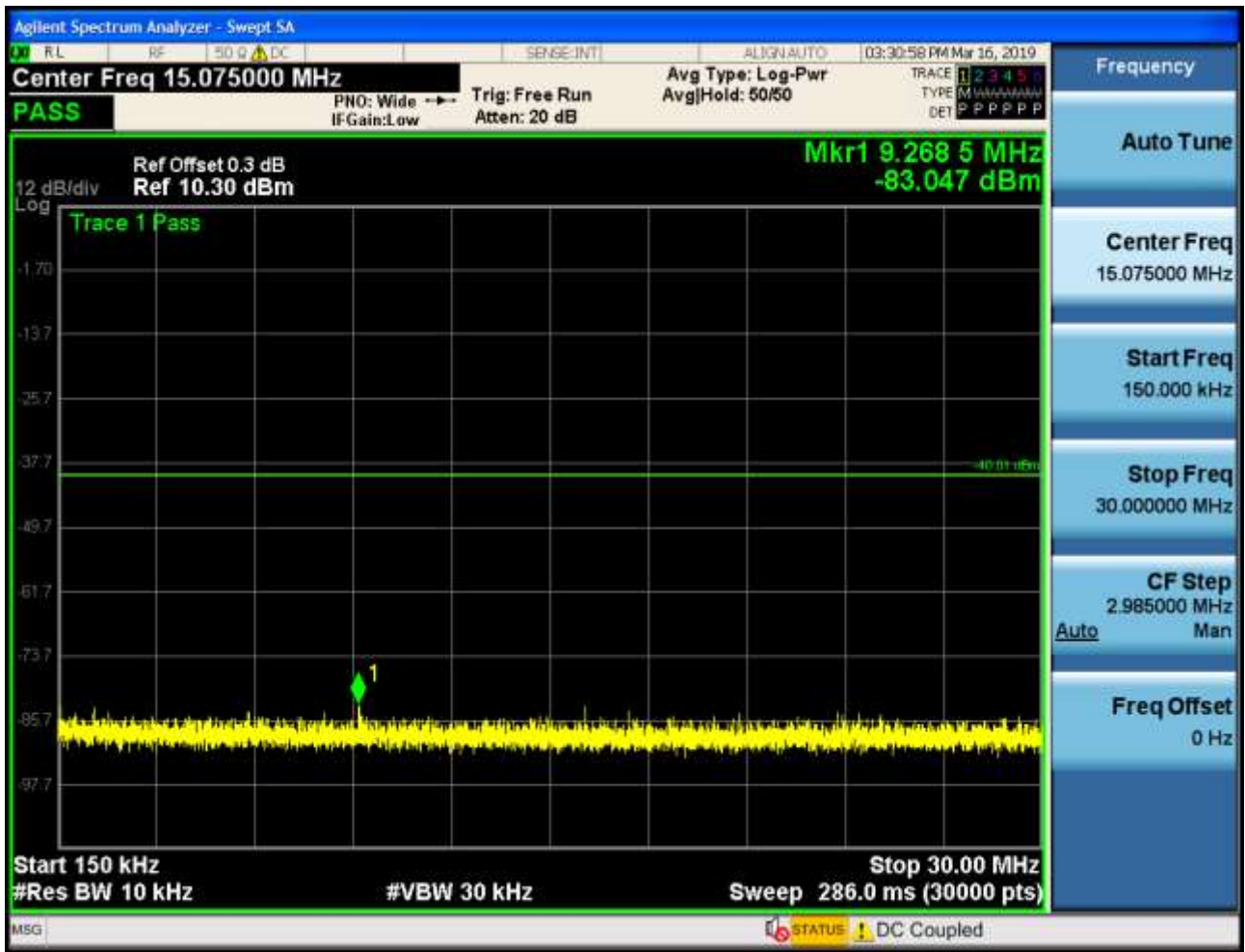
1.7 11G_Ant1_2412

Pref:

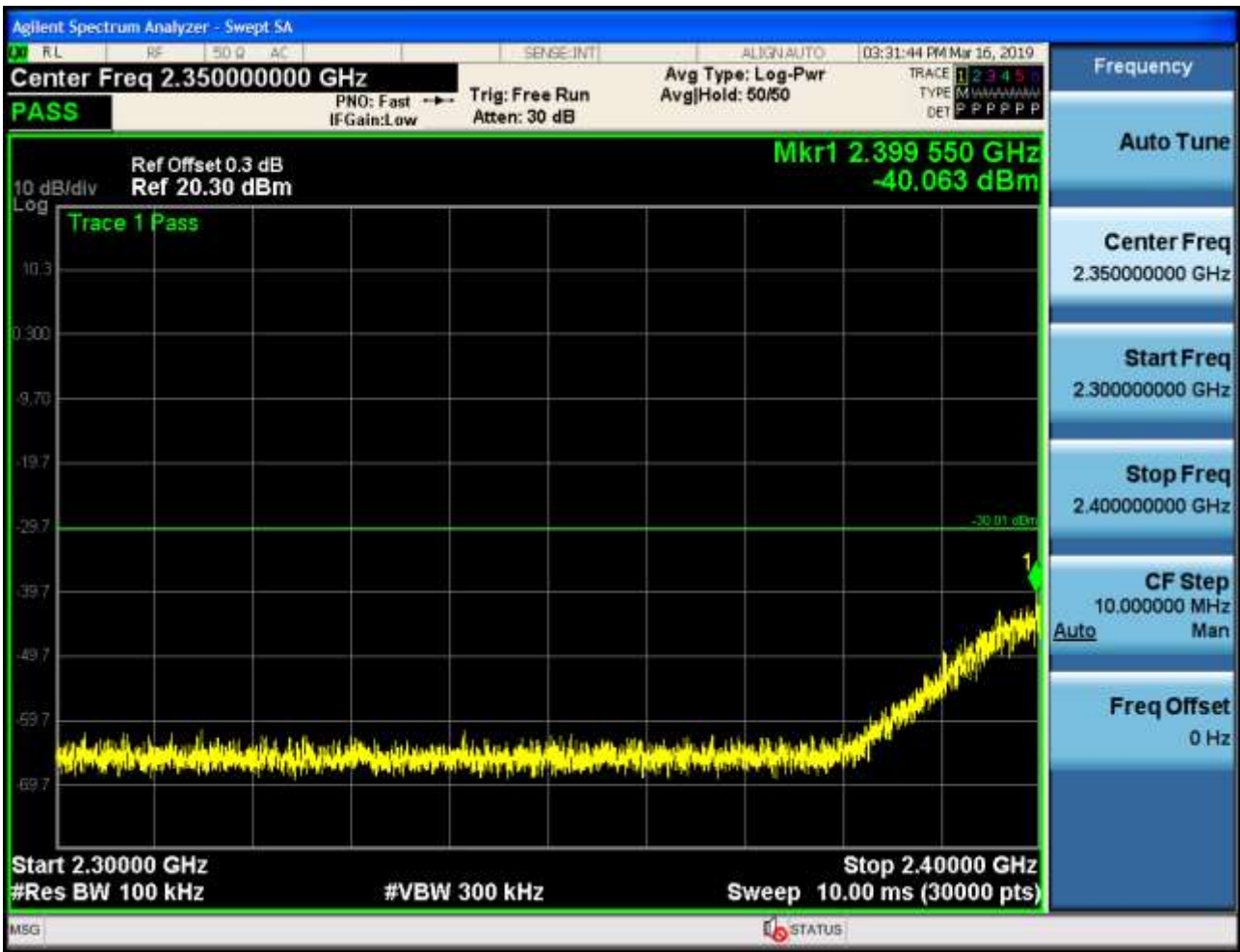


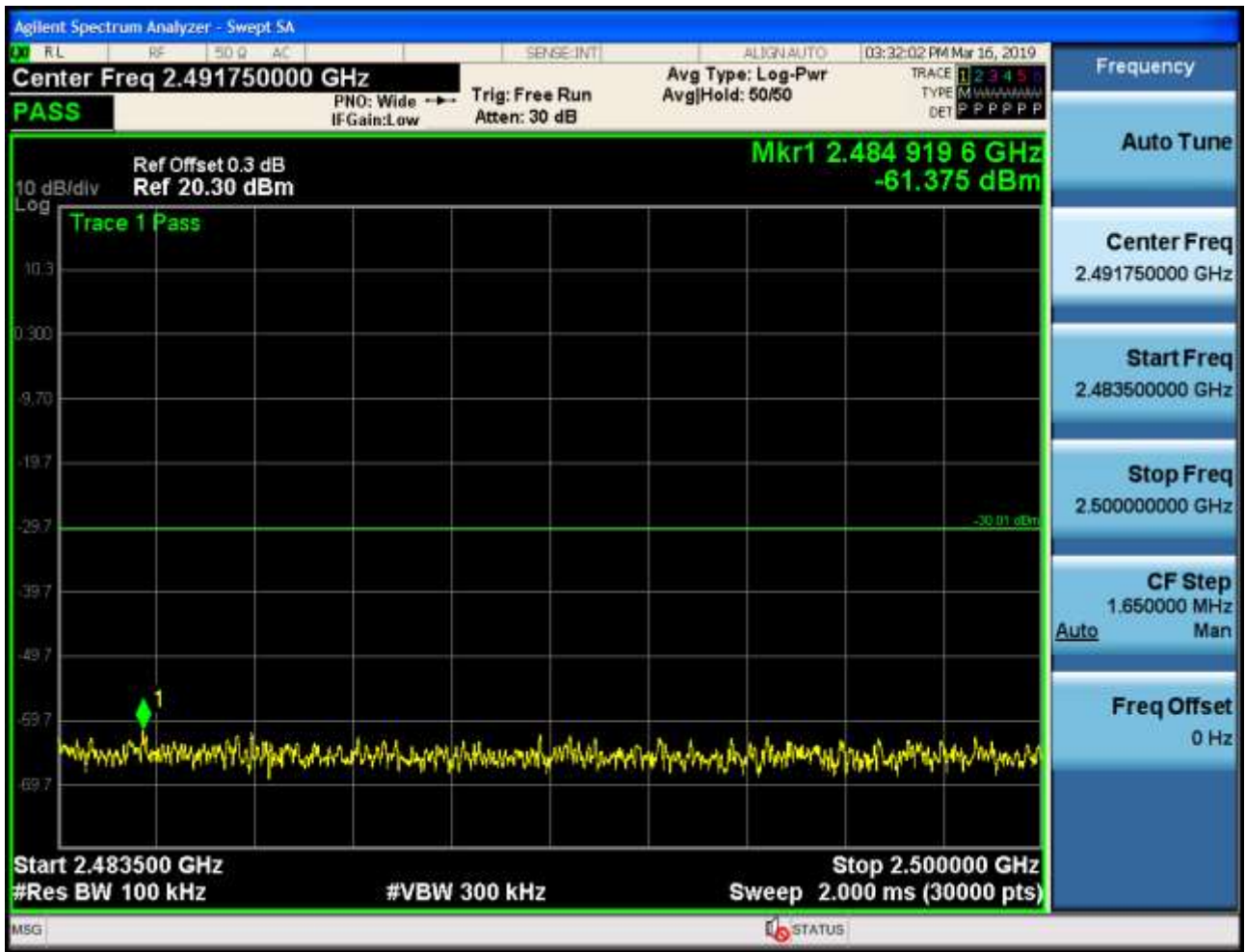
P_{uw}:













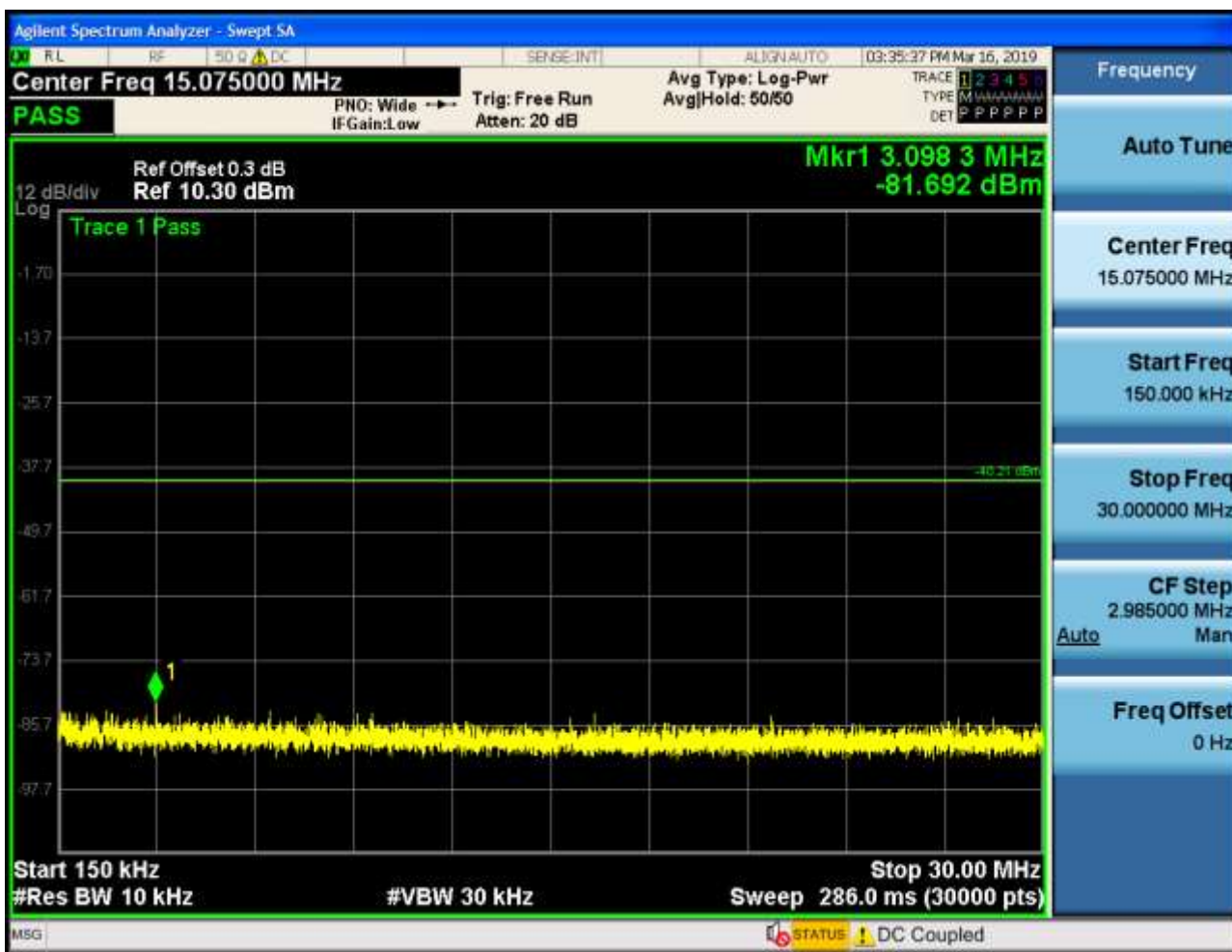
1.8 11G_Ant1_2417

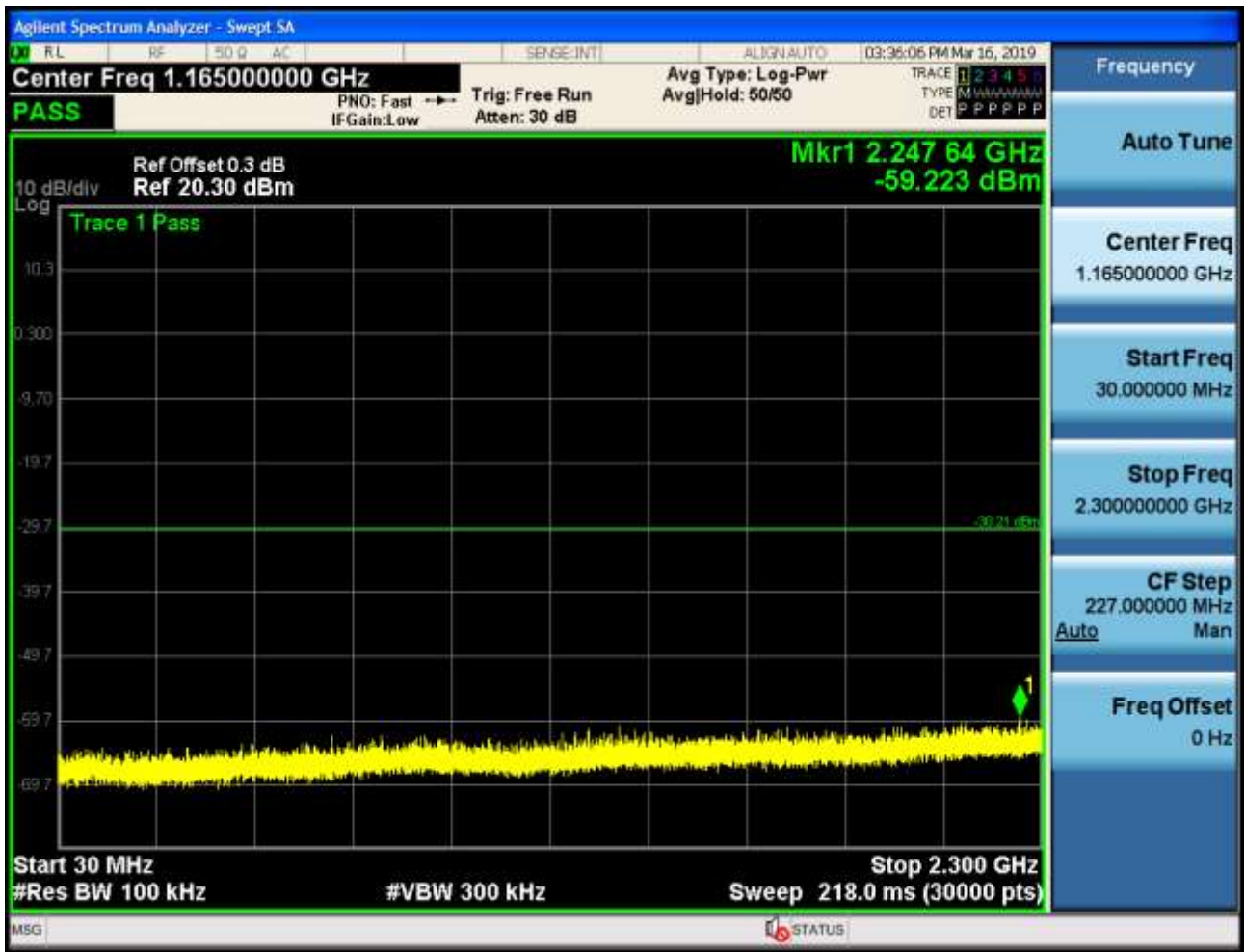
Pref:

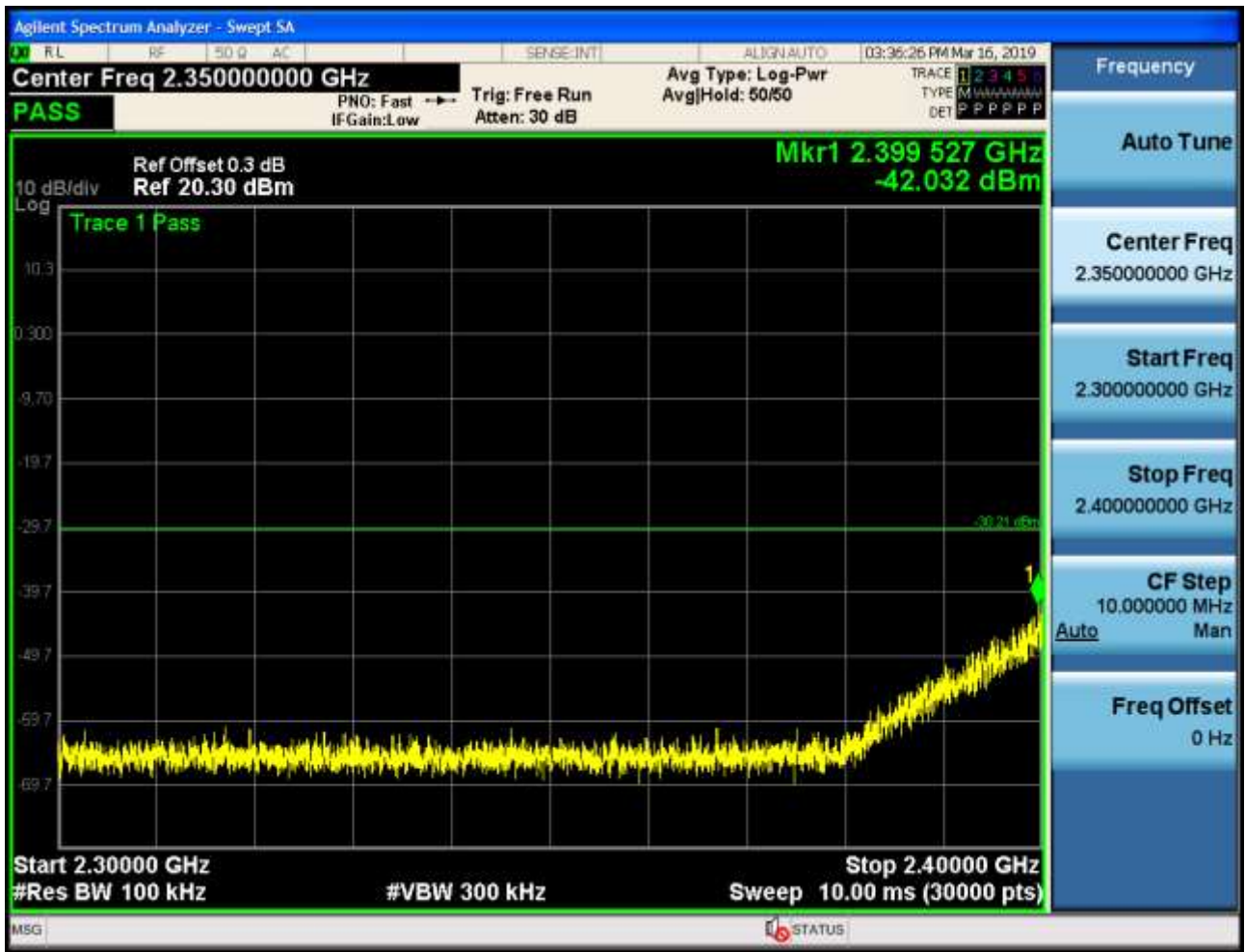


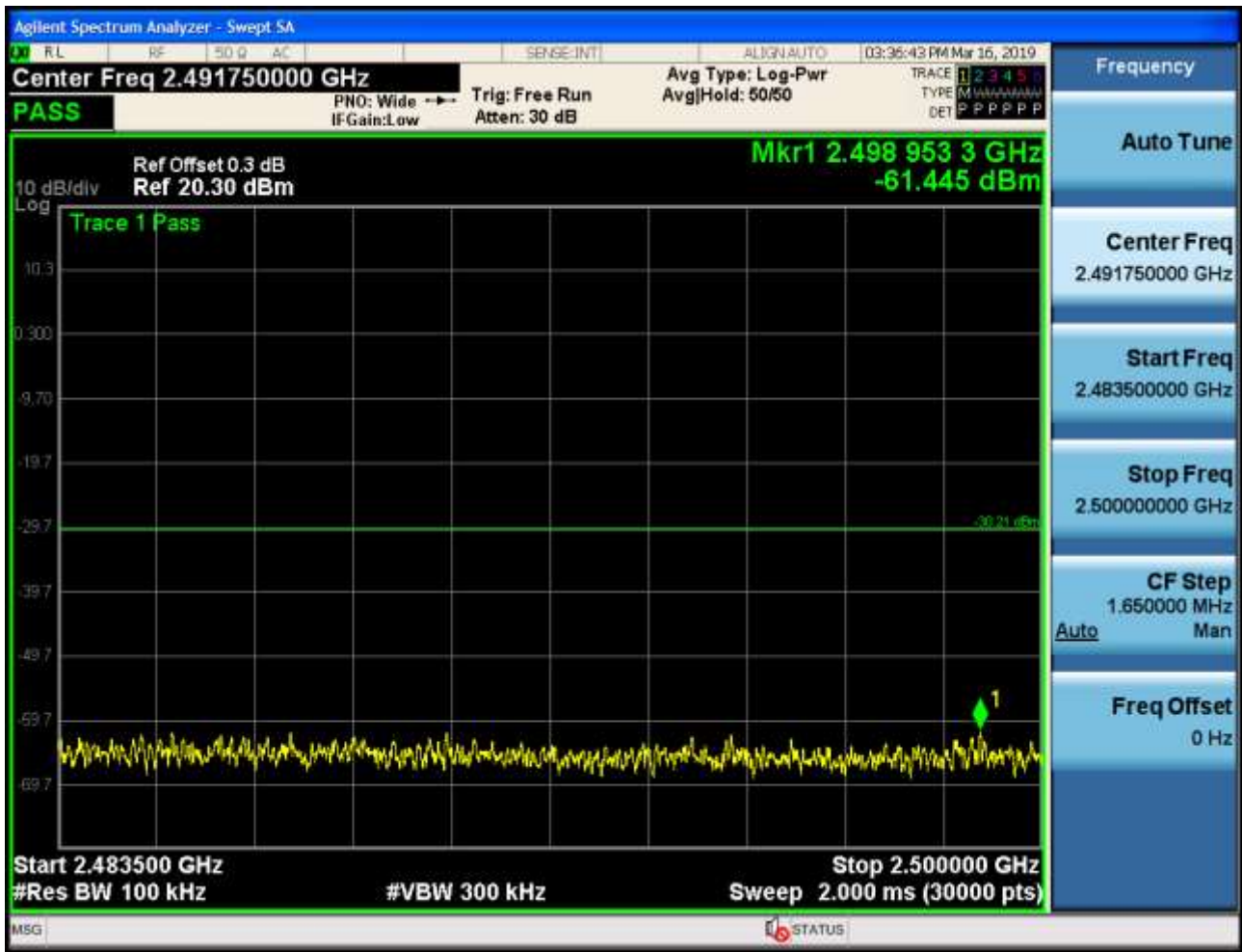
Puw:







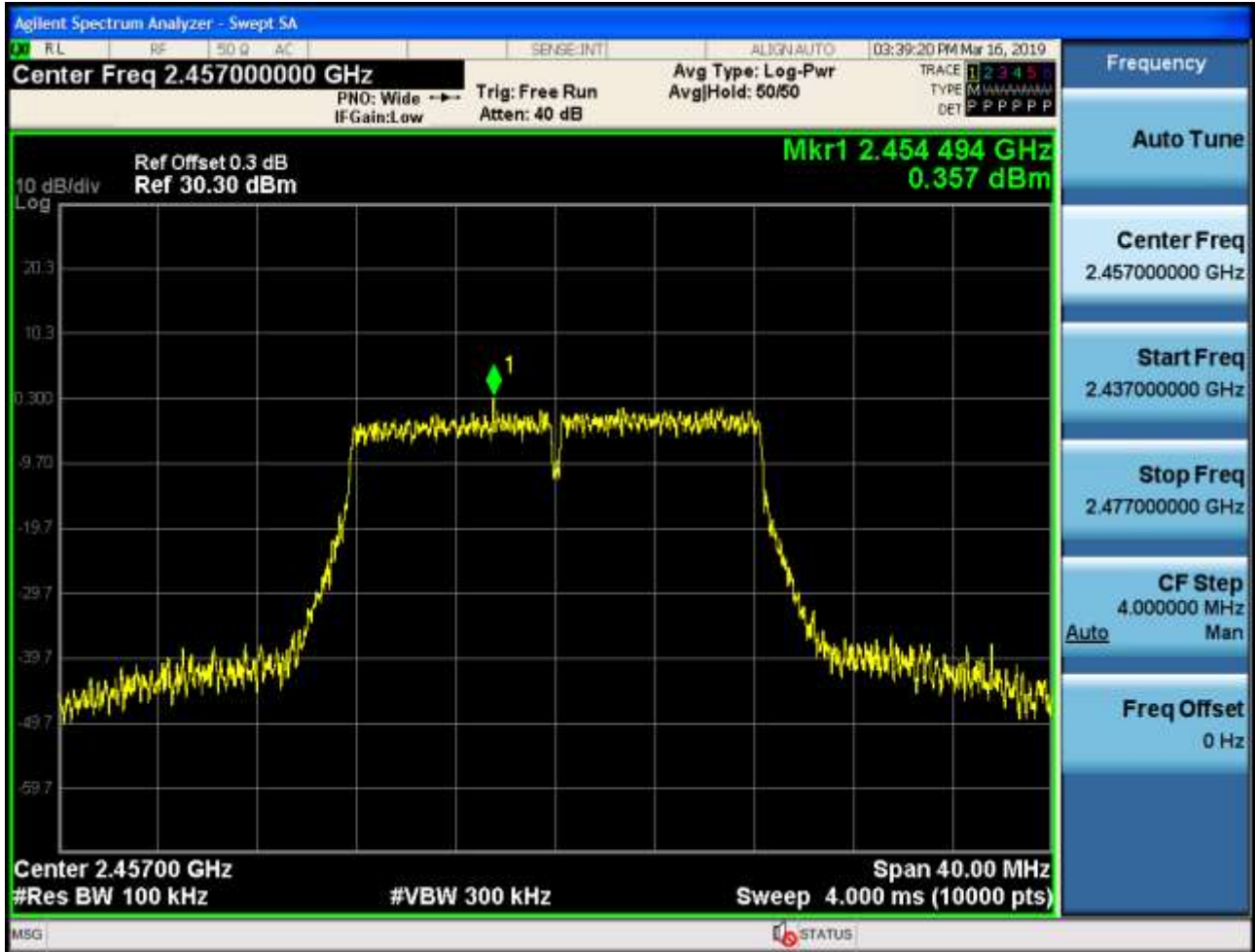






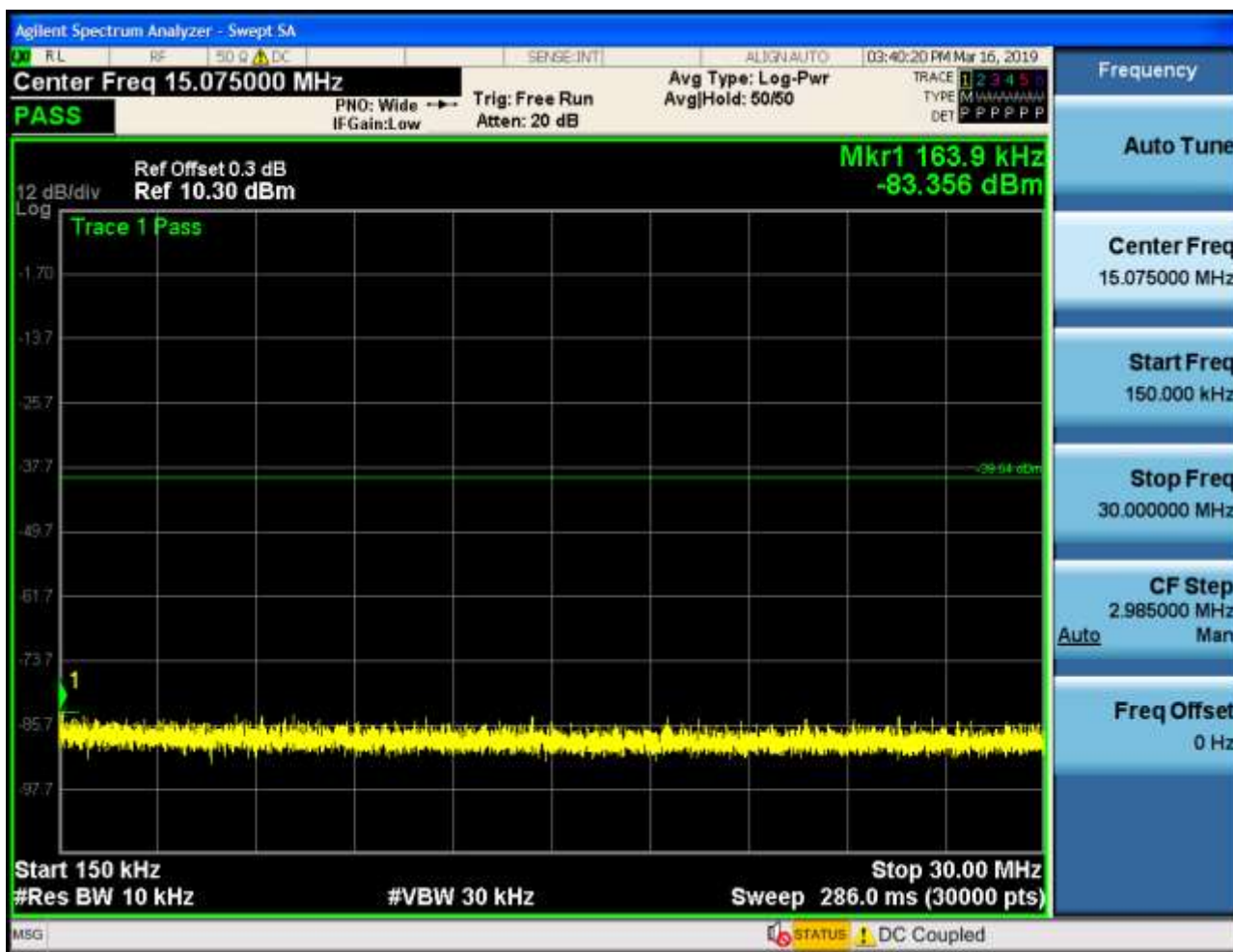
1.5 11G_Ant1_2457

Pref:

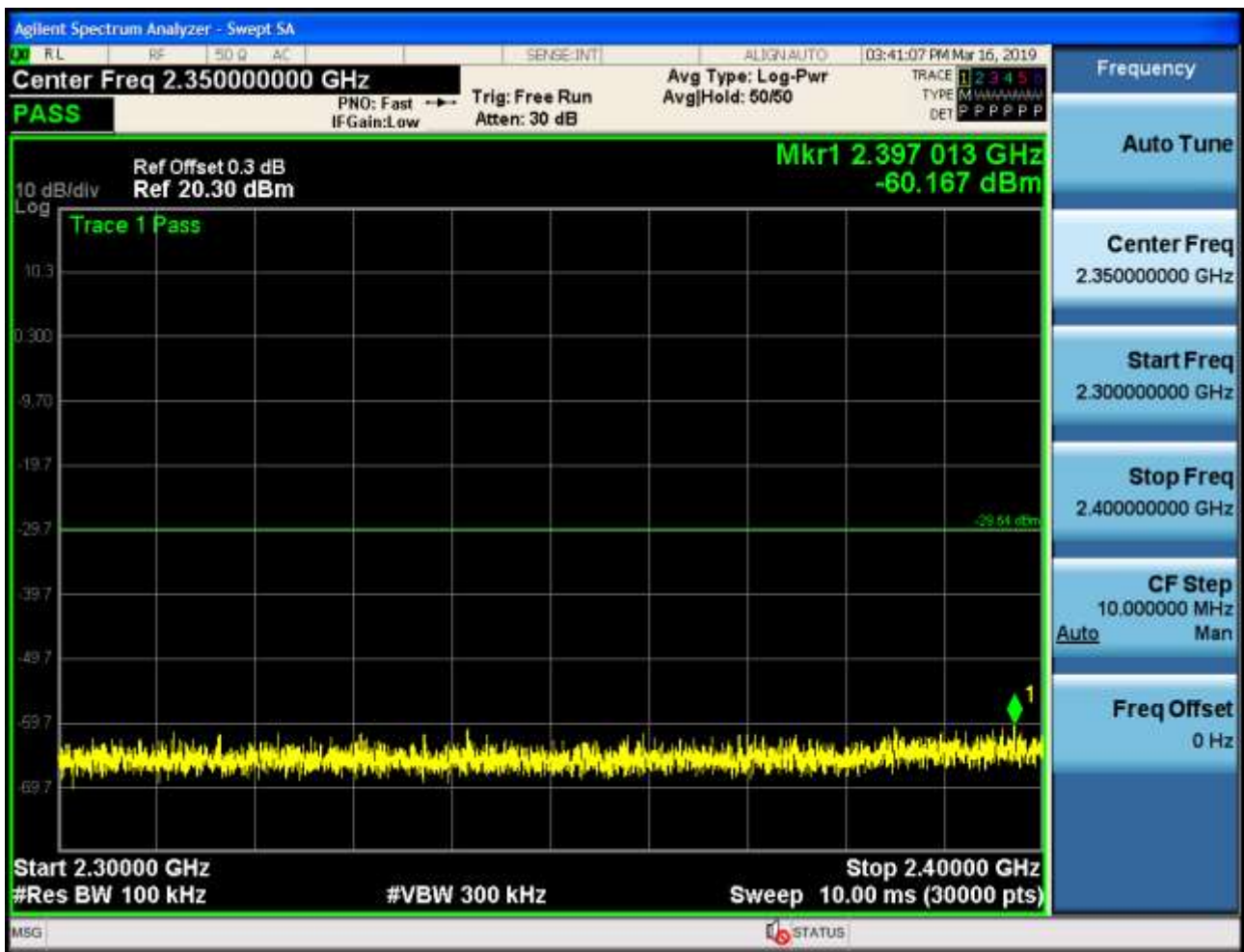


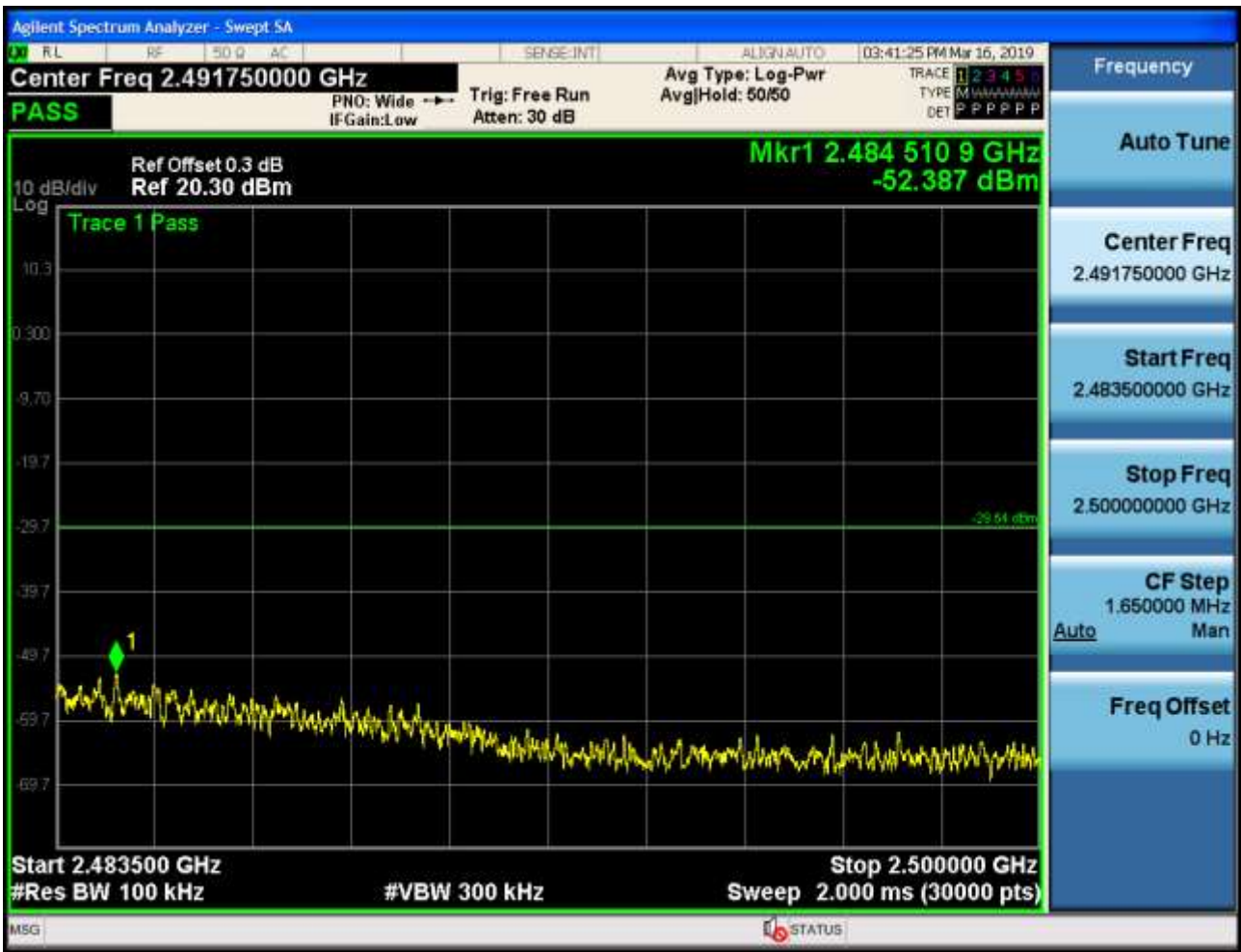
P_{uw}:







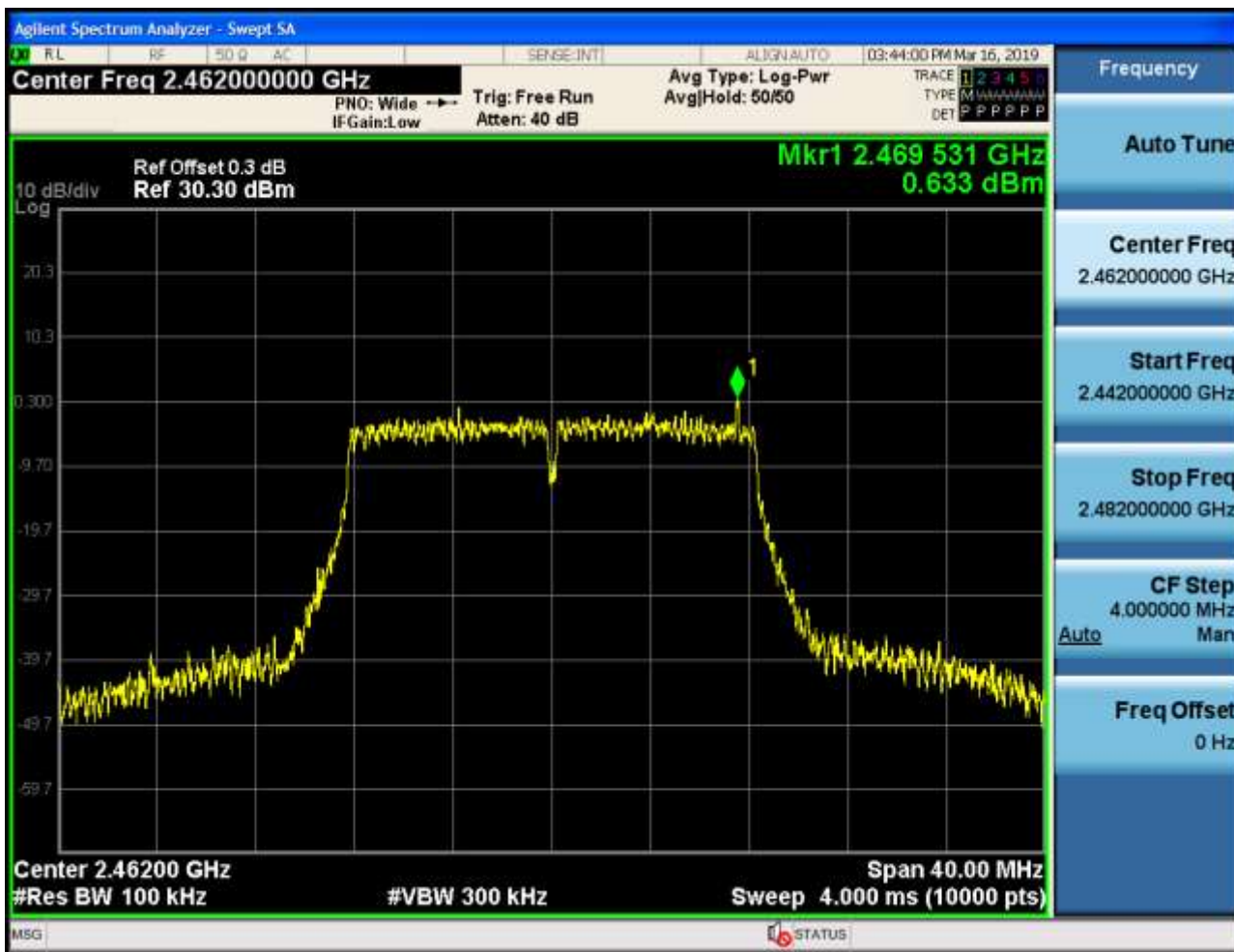




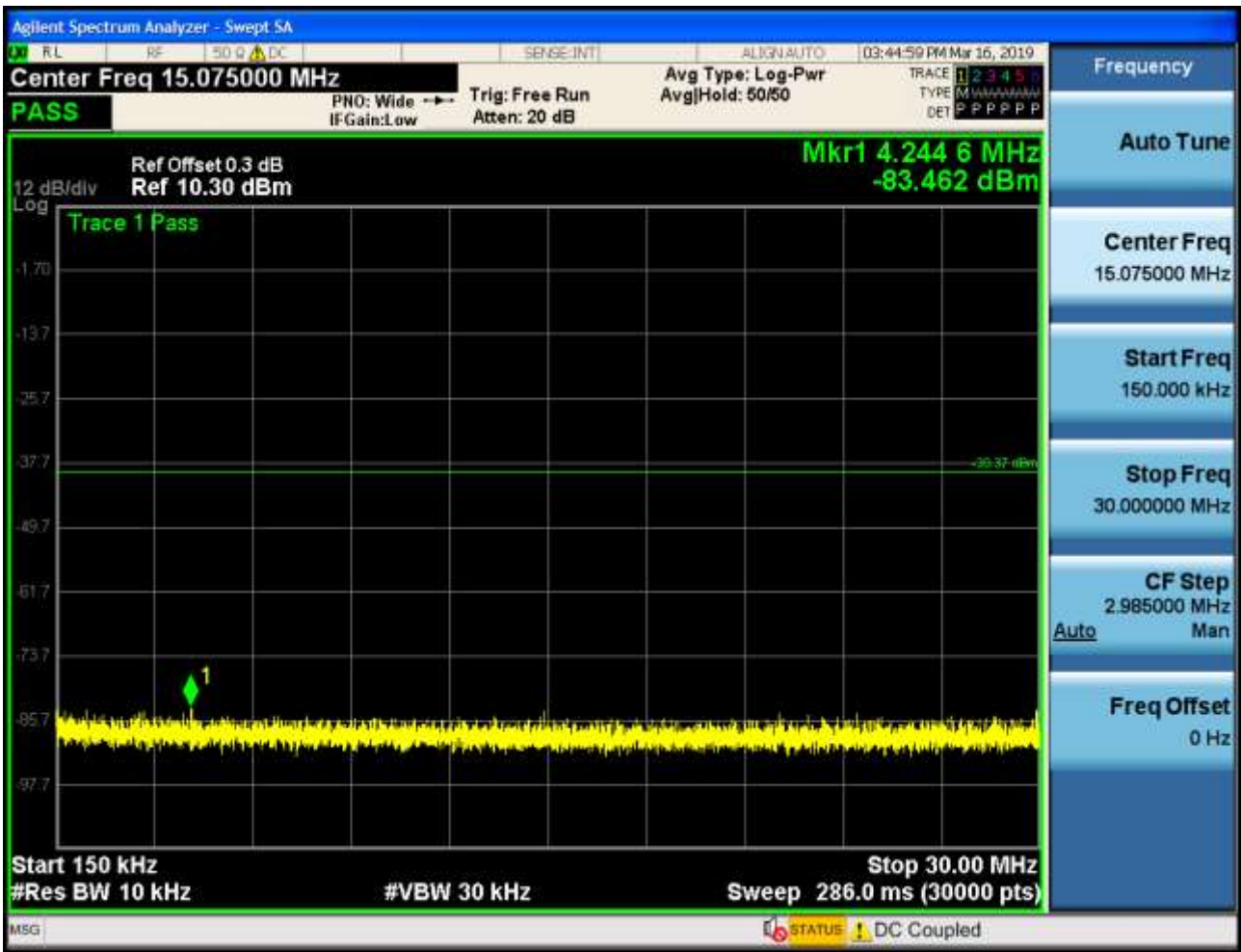


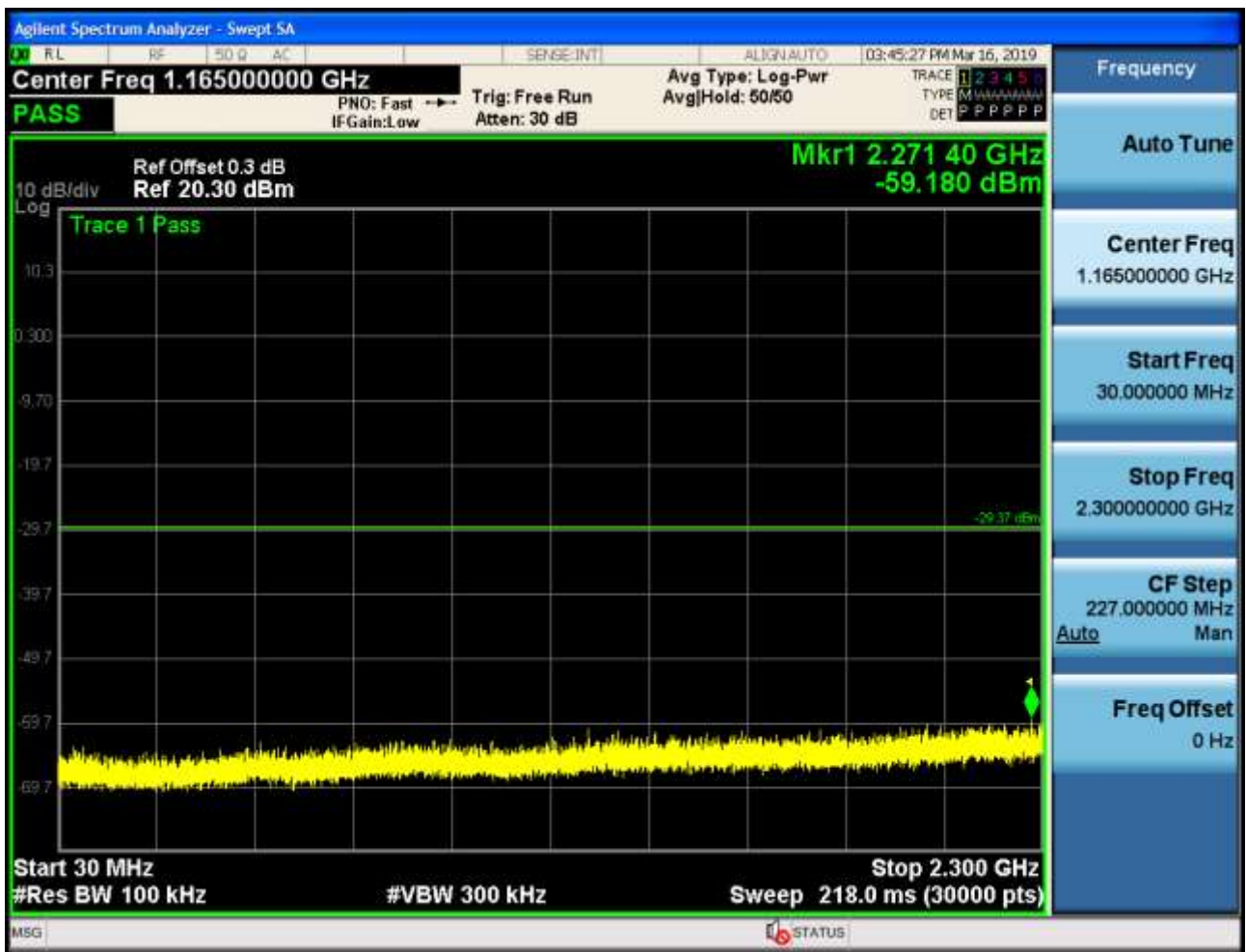
1.6 11G_Ant1_2462

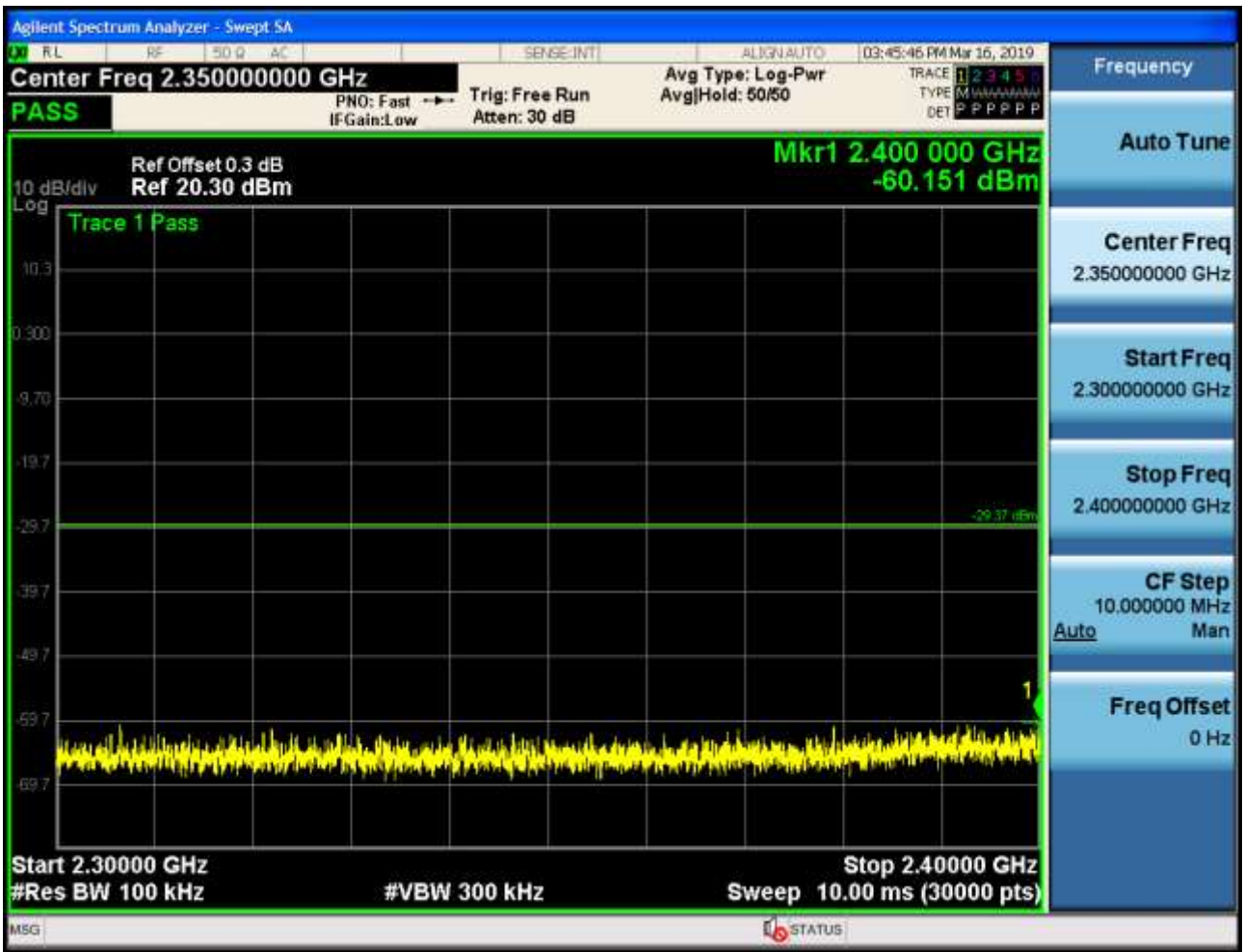
Pref:

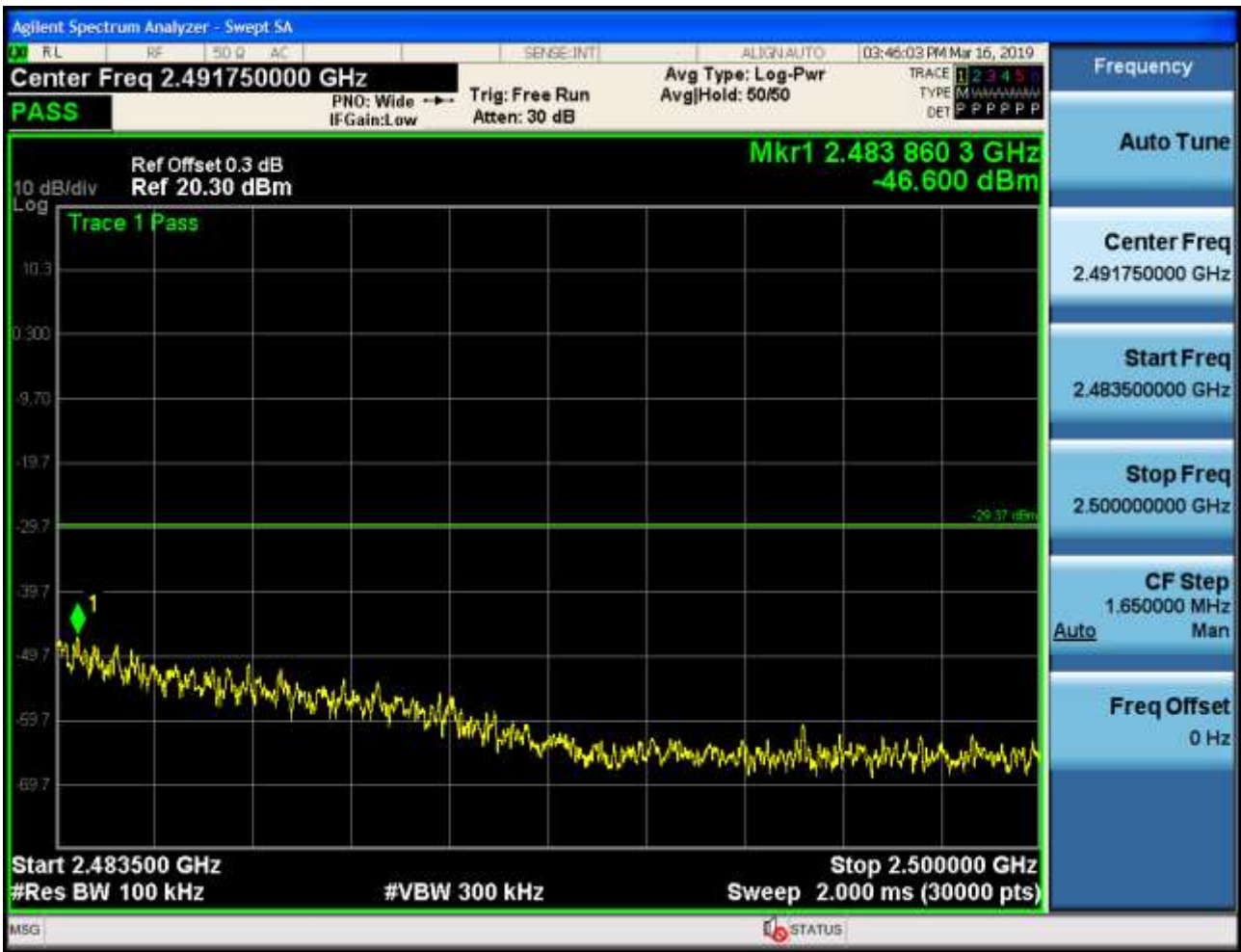


P_{uw}:











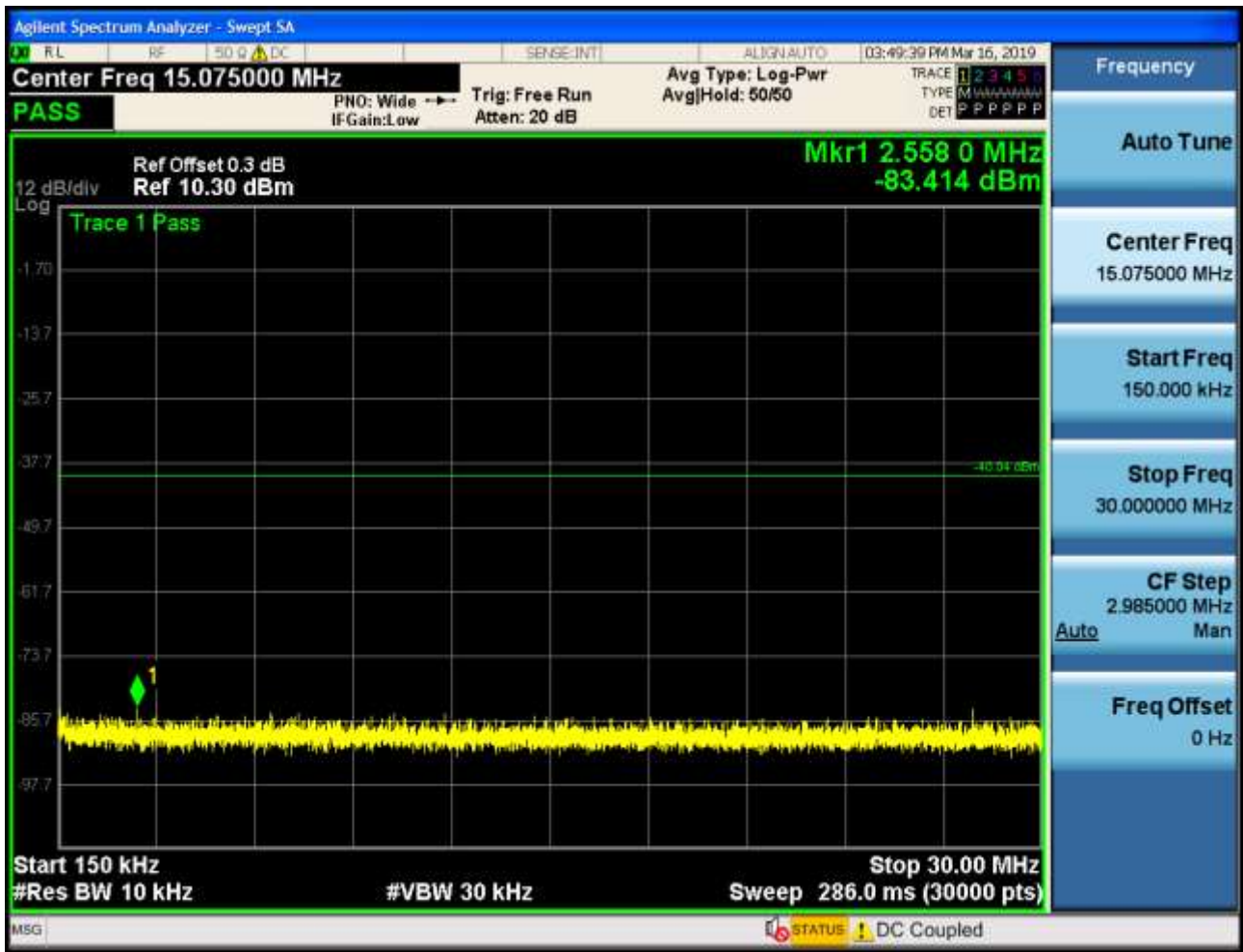
1.11 11N20SISO_Ant1_2412

Pref:

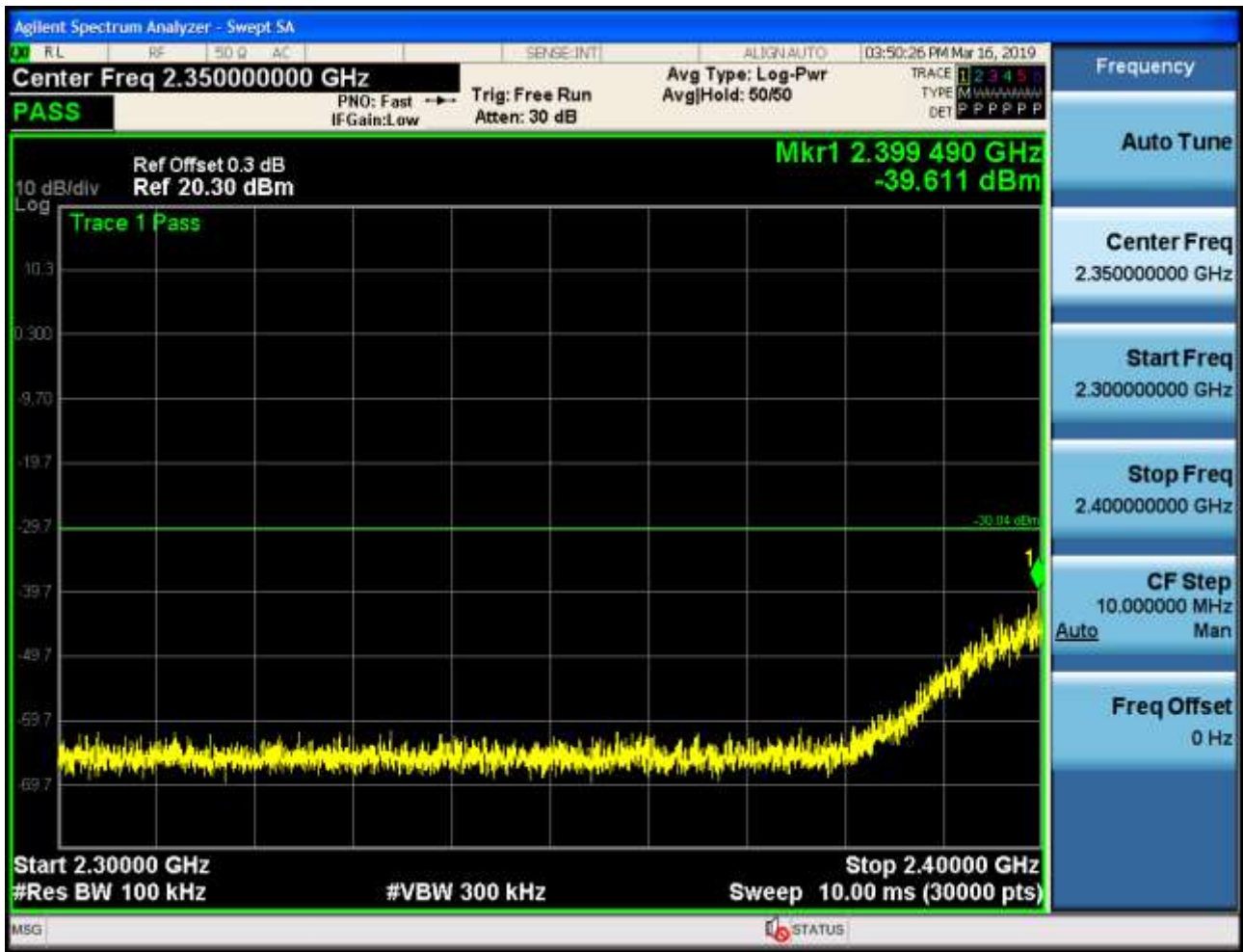


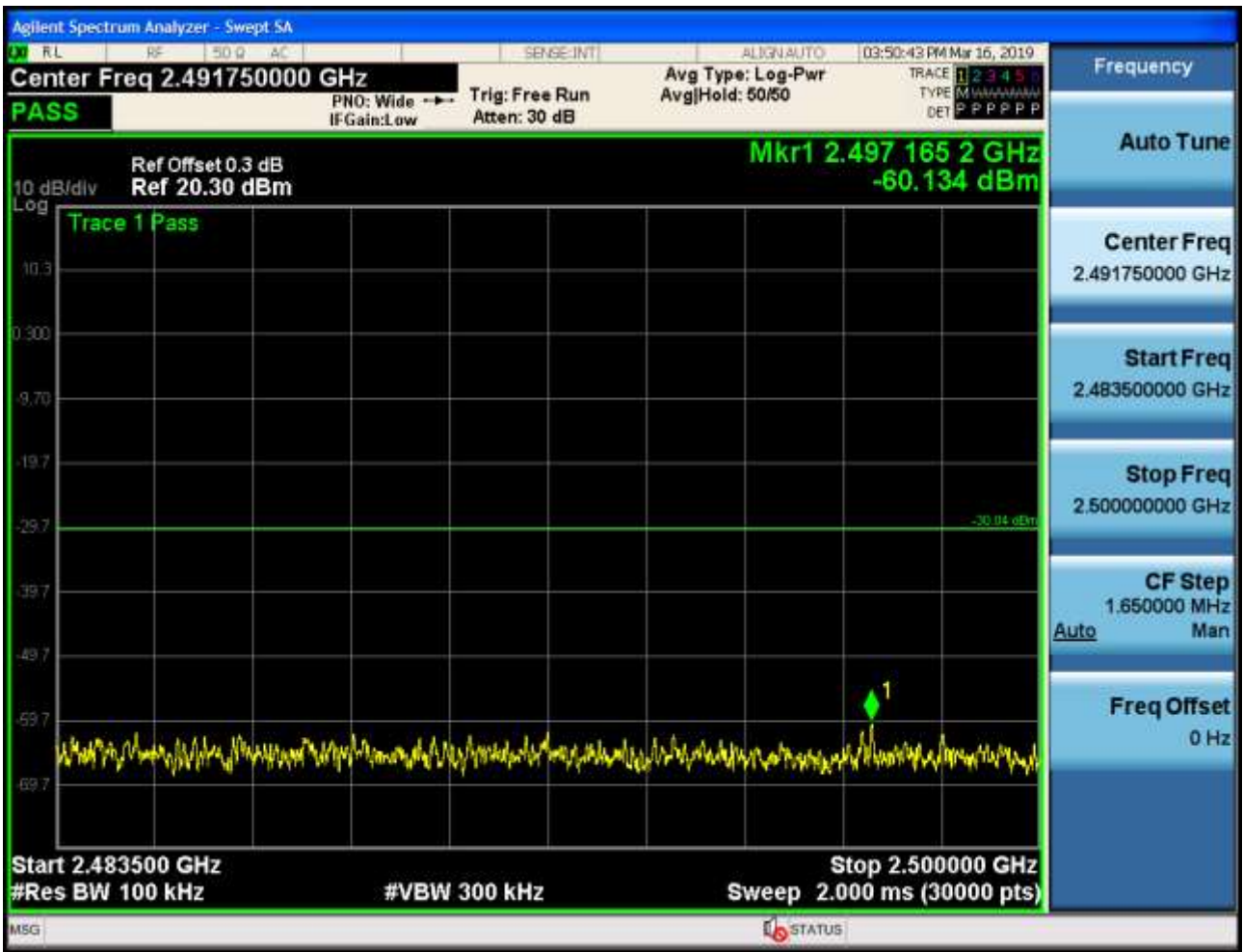
P_{uw}:







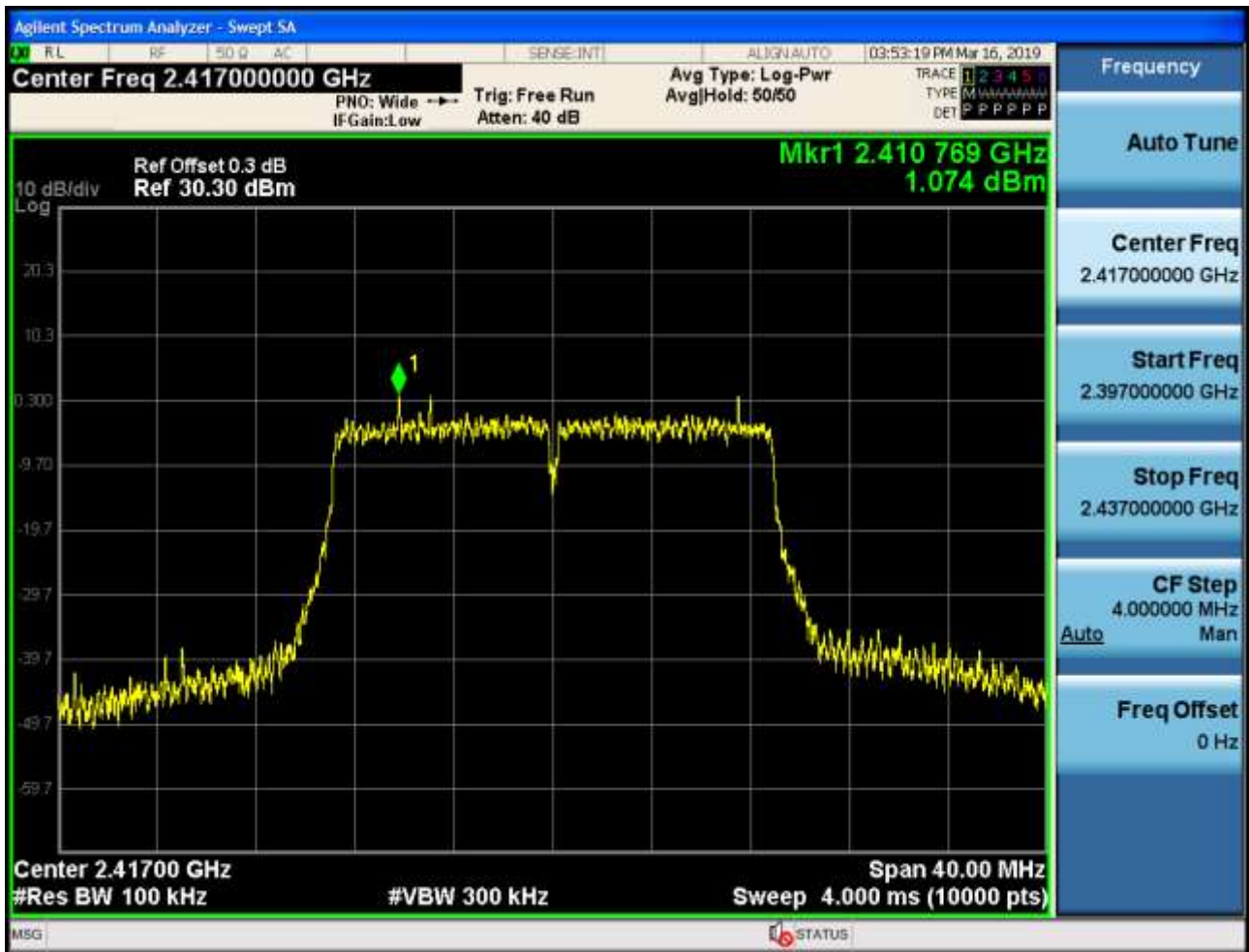






1.12 11N20SISO_Ant1_2417

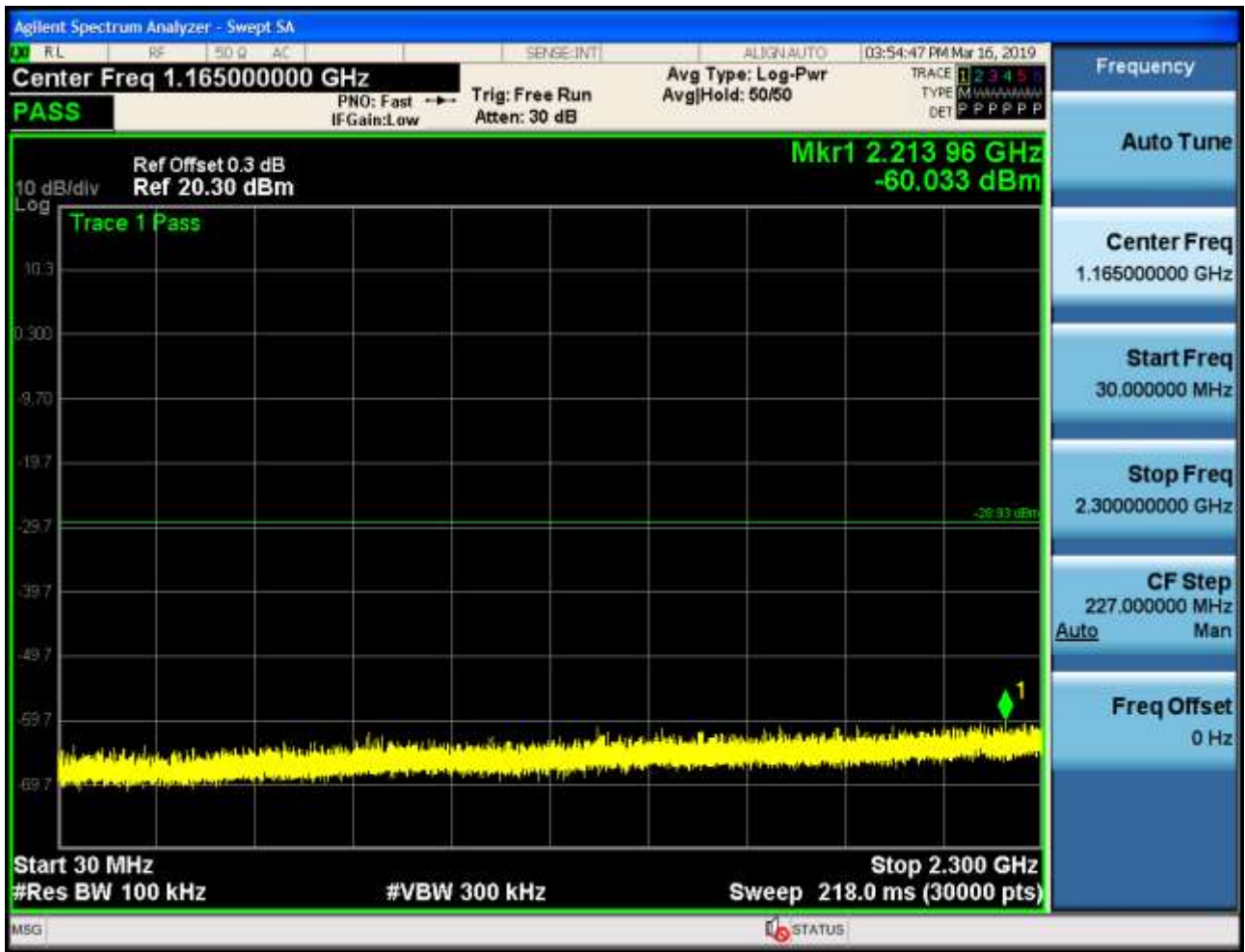
Pref:

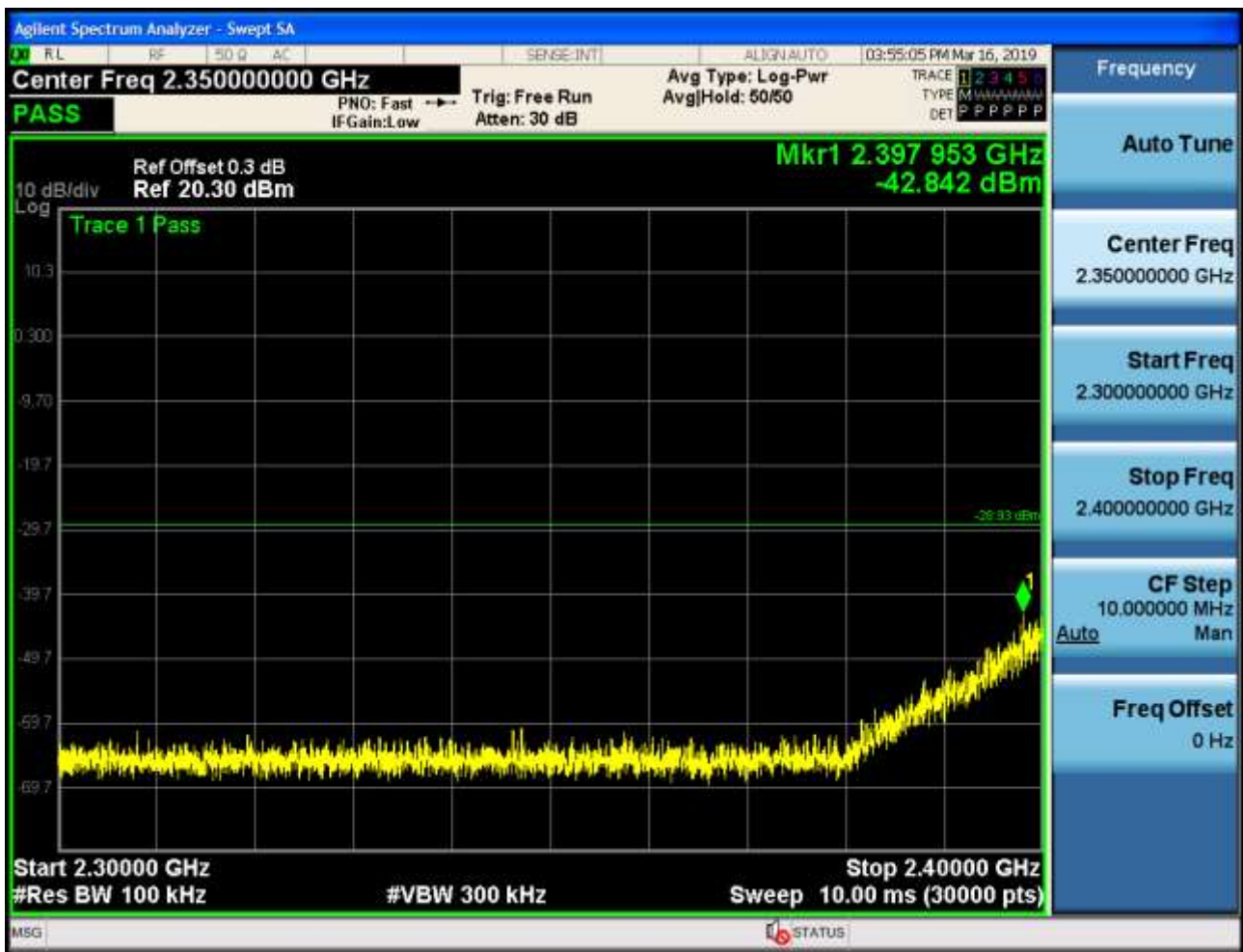


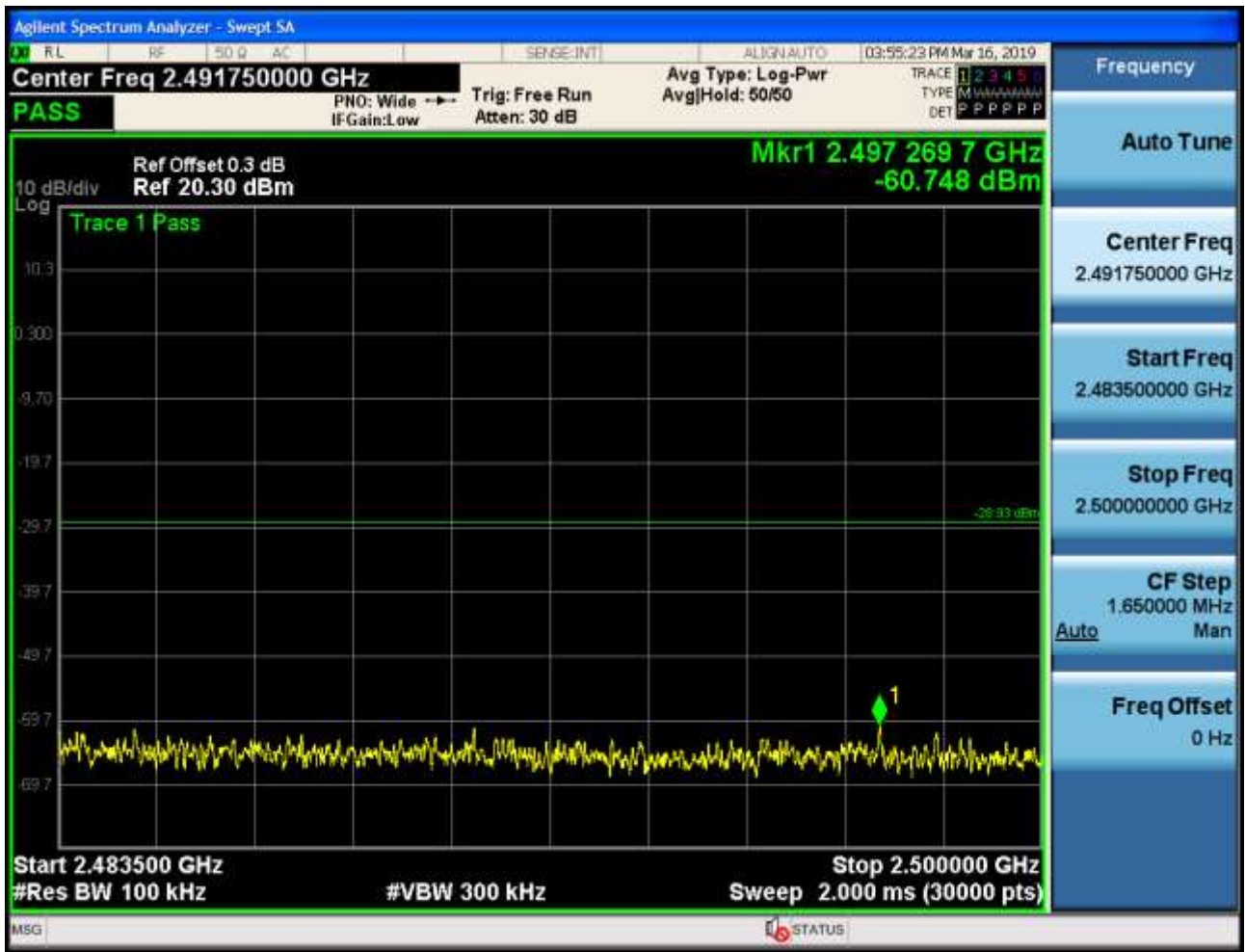
P_{uw}:













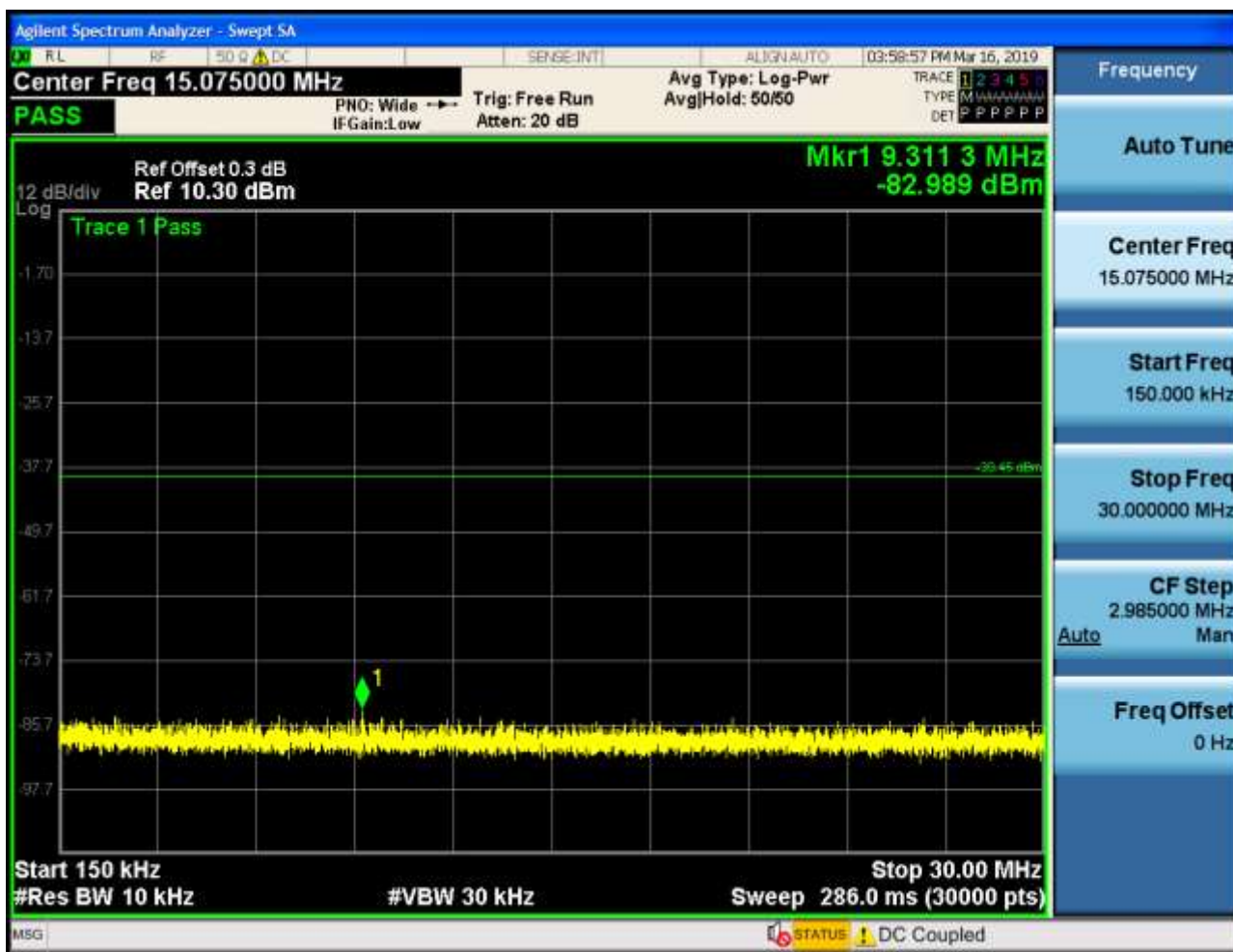
1.9 11N20SISO_Ant1_2457

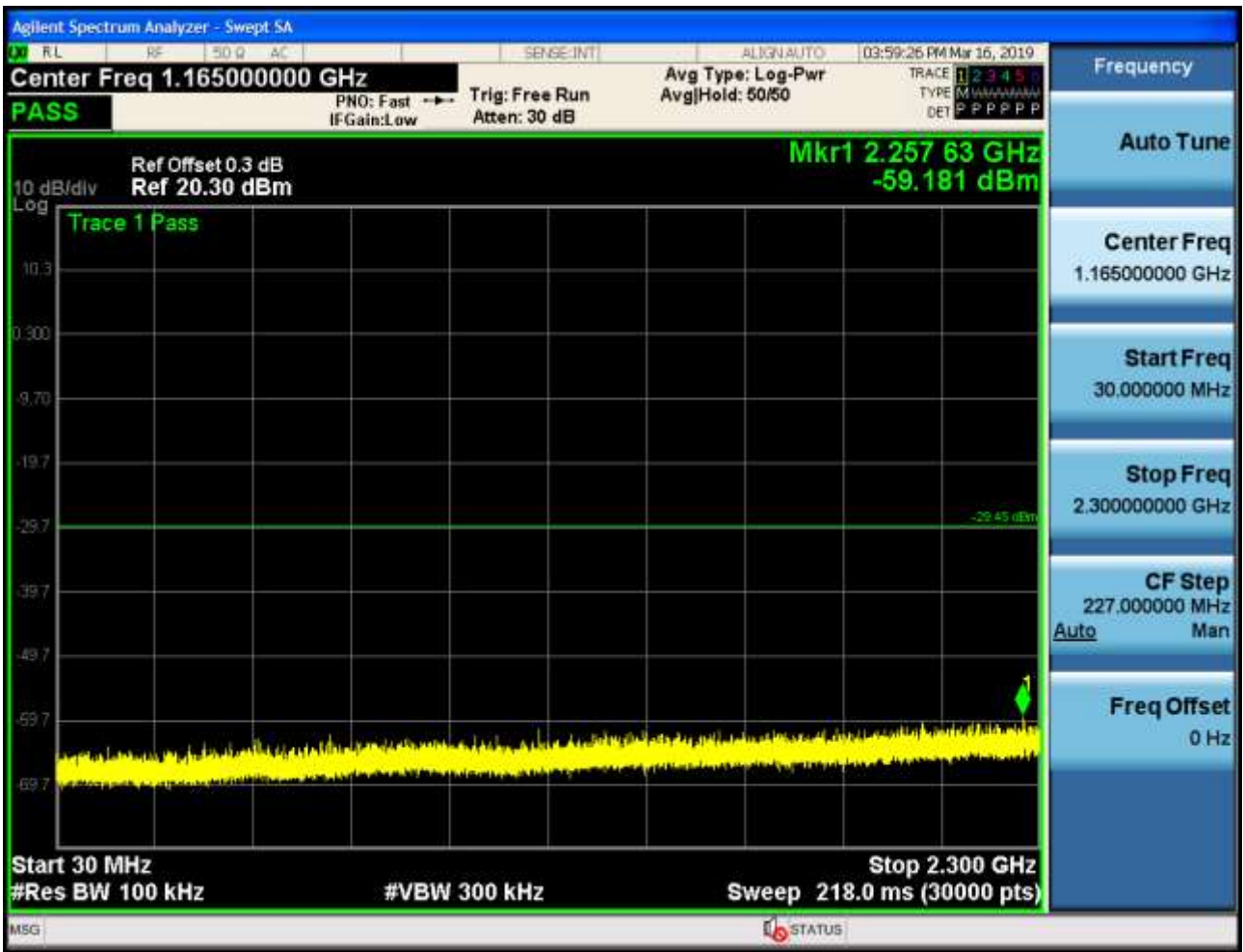
Pref:

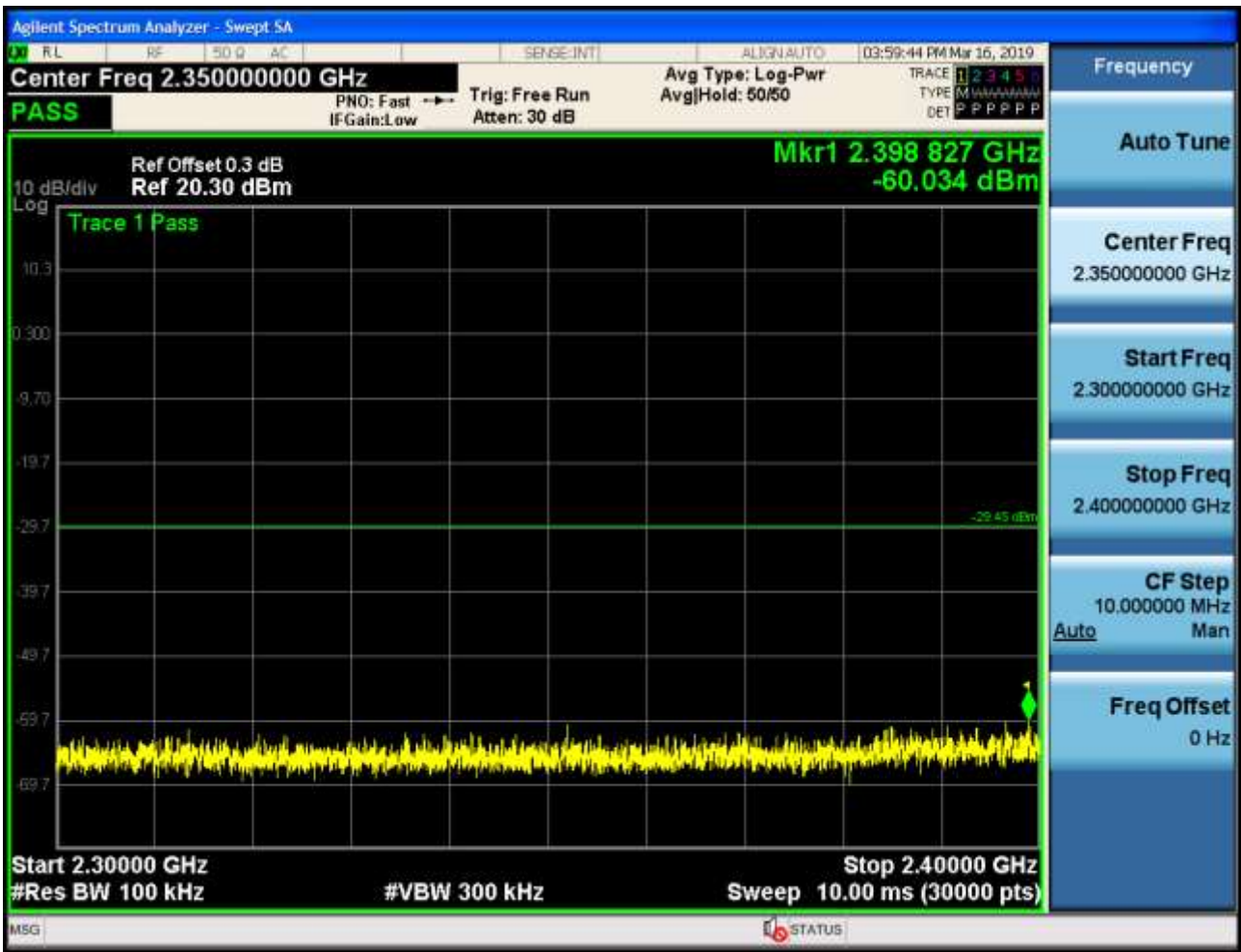


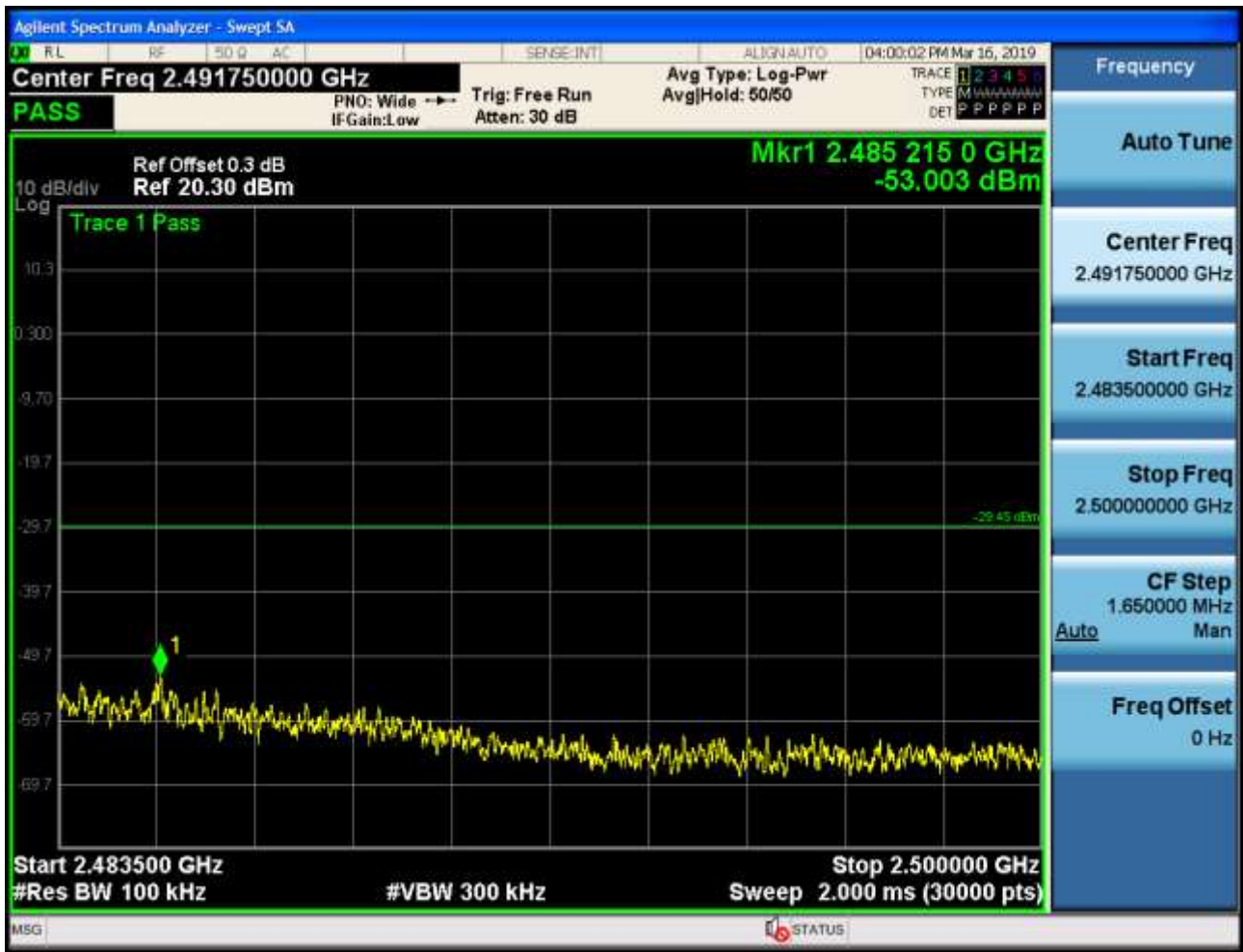
P_{uw}:







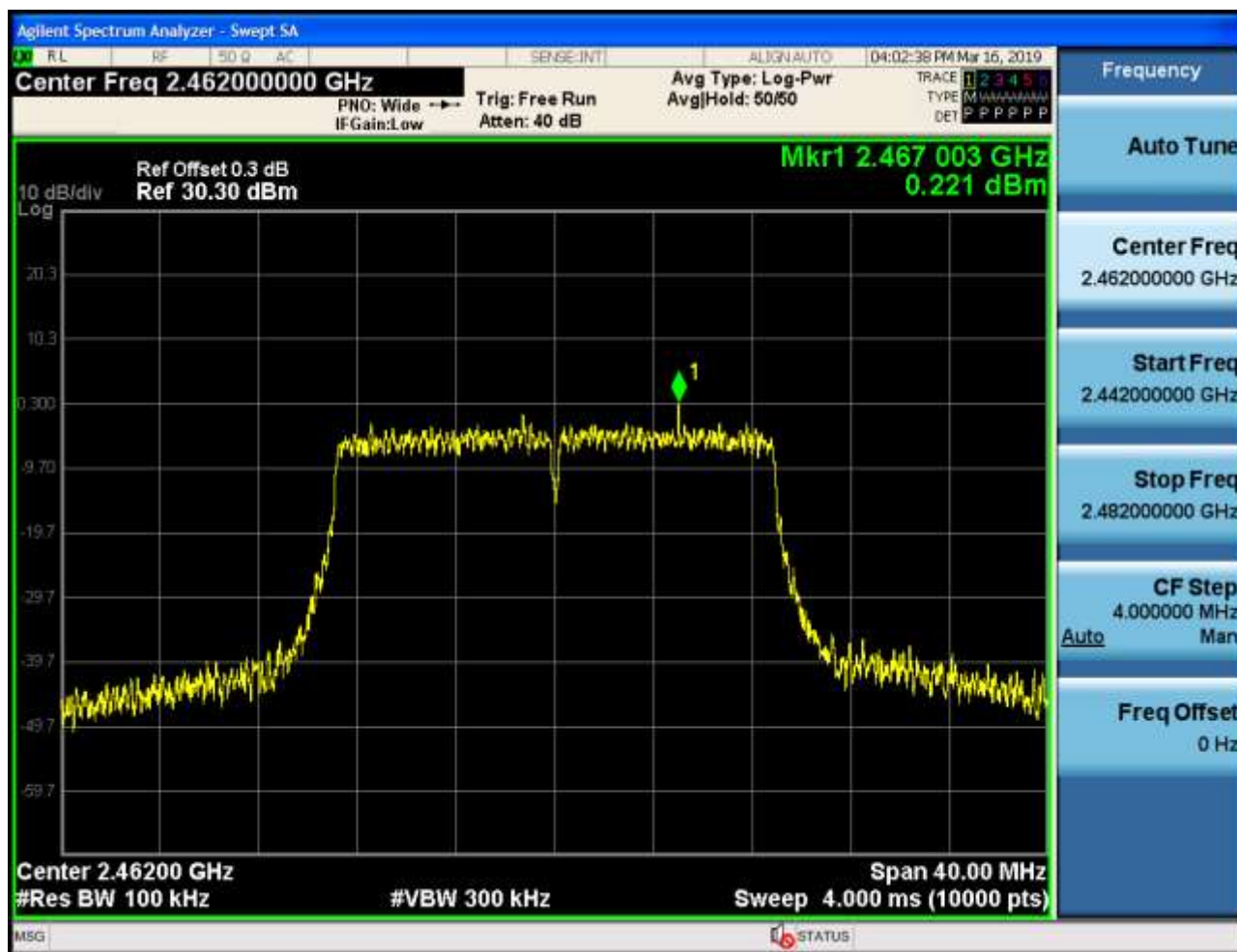






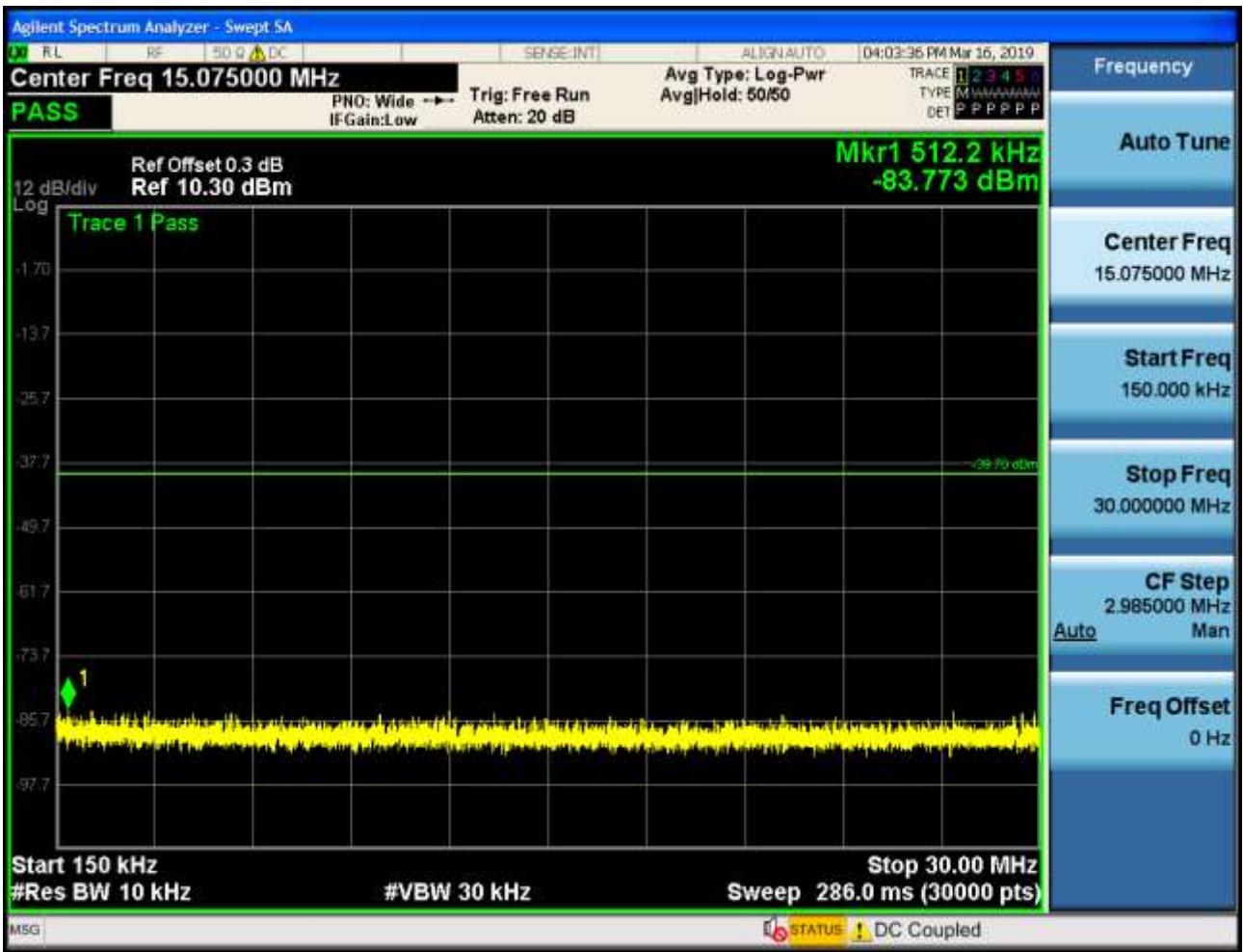
1.10 11N20SISO_Ant1_2462

Pref:

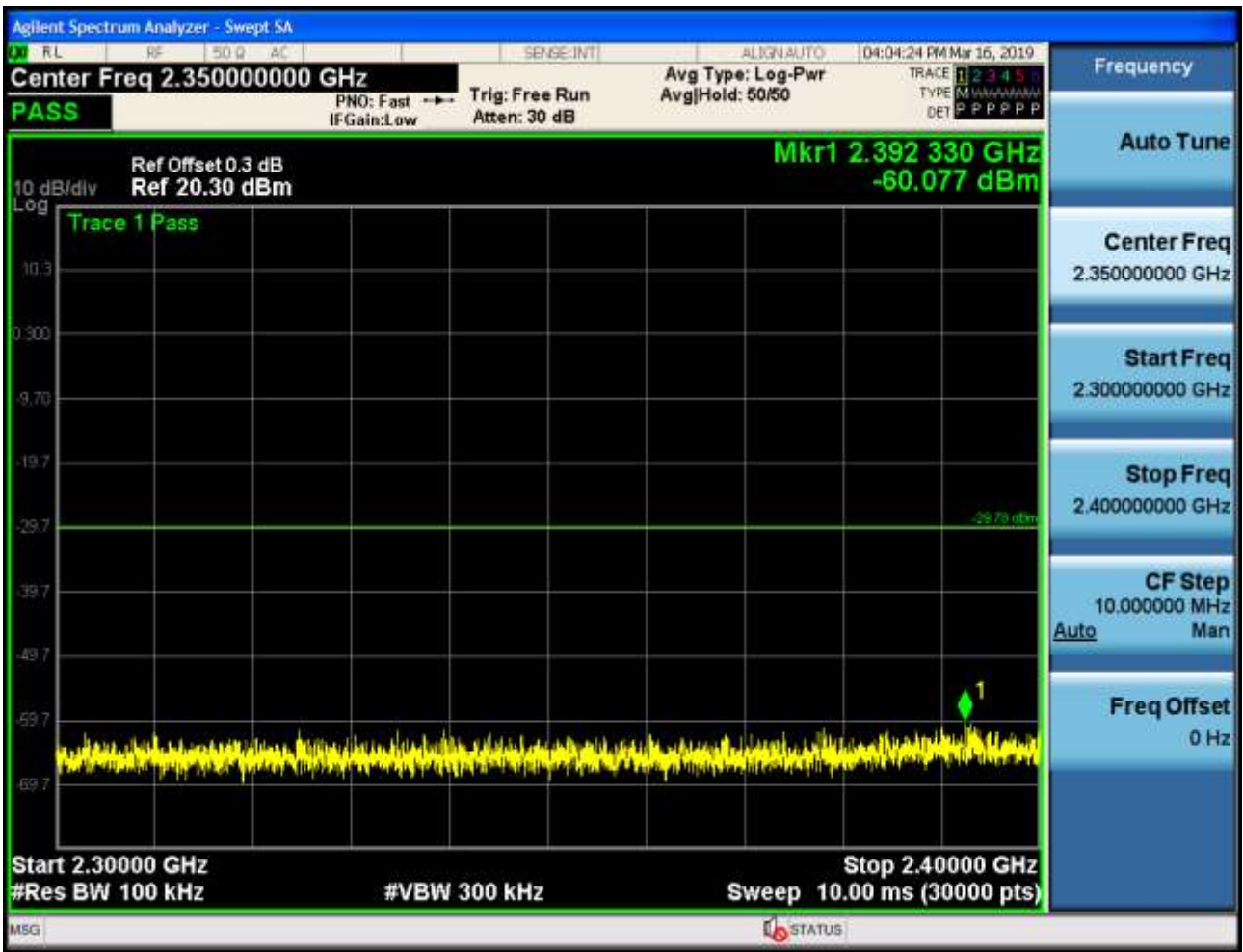


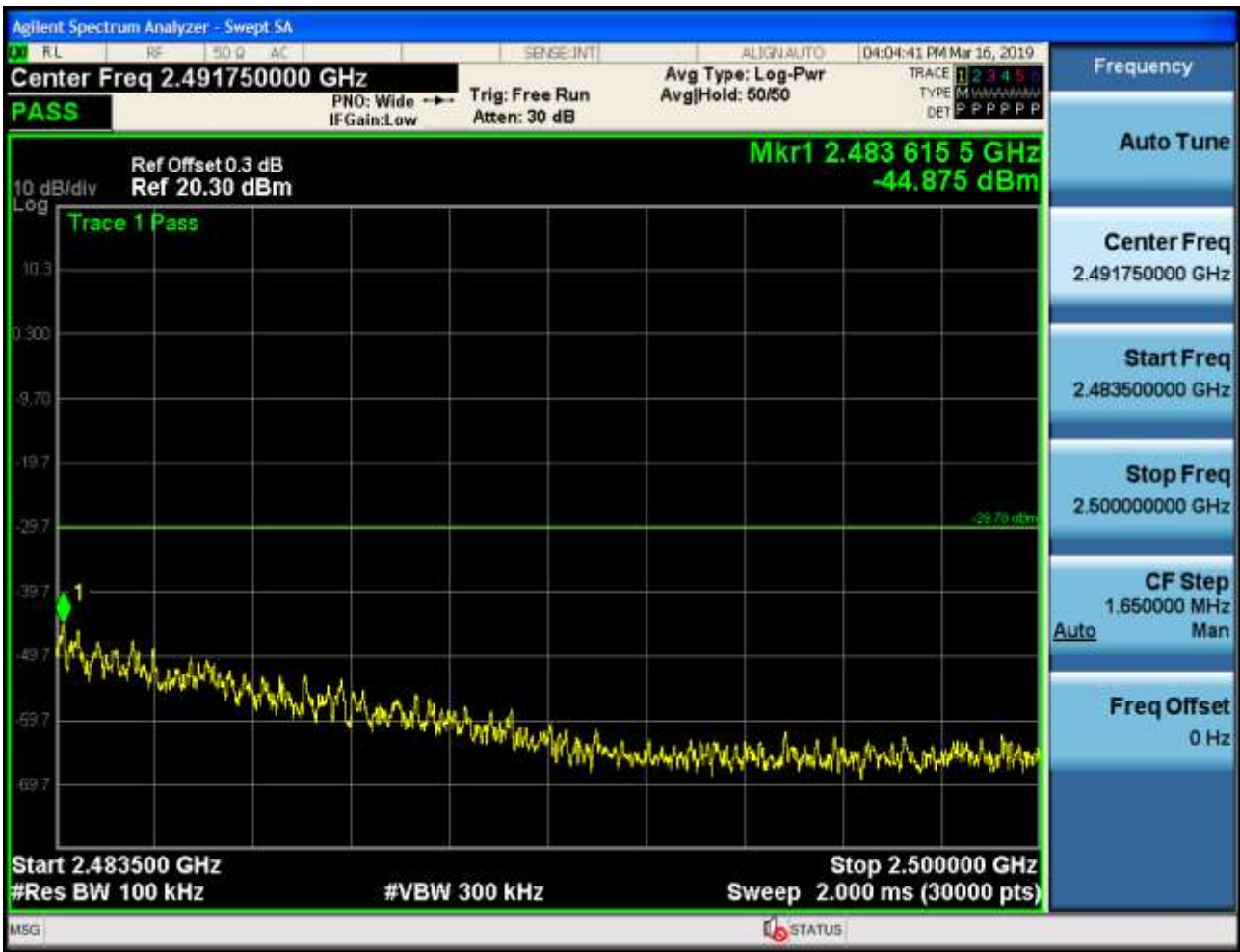
P_{uw}:







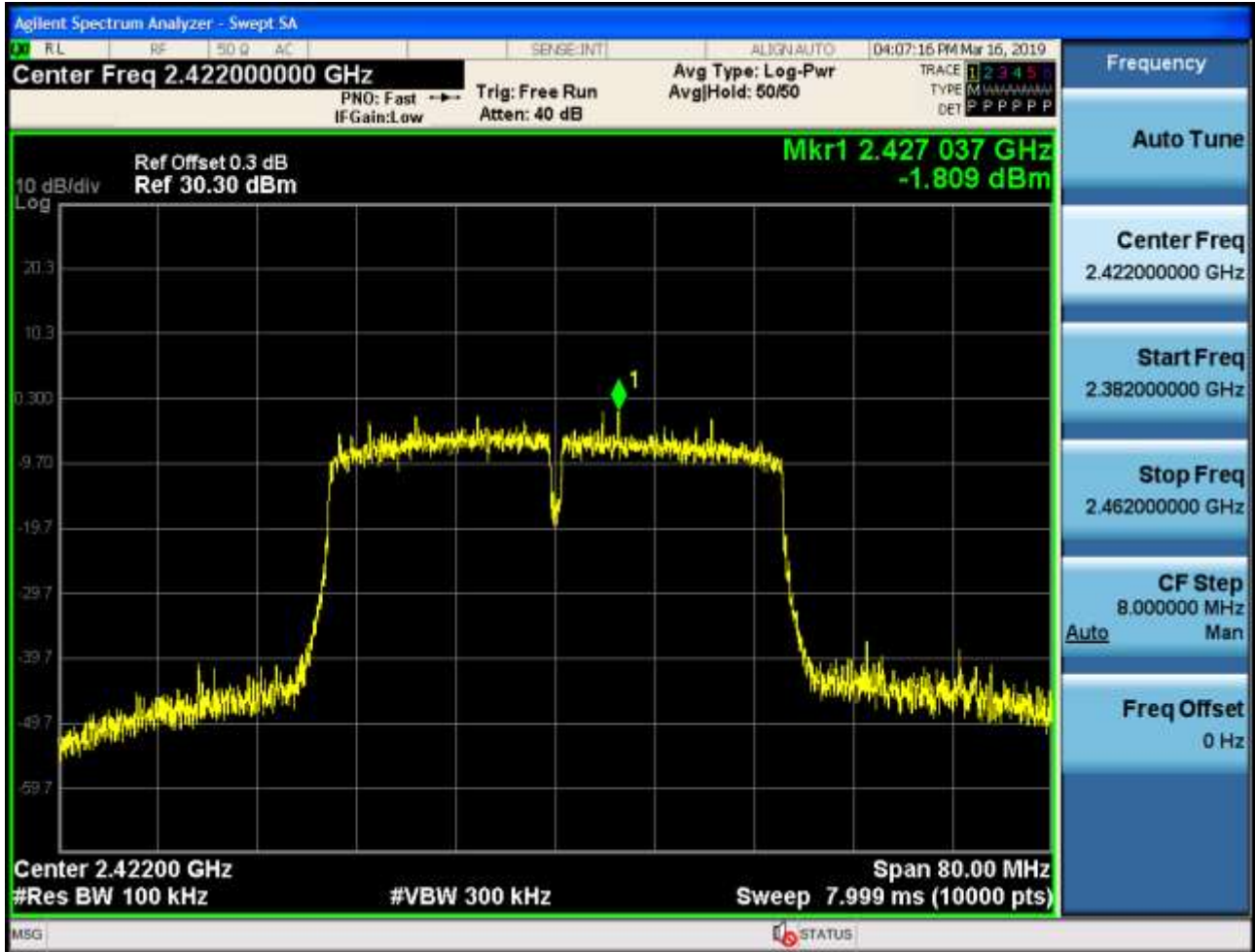






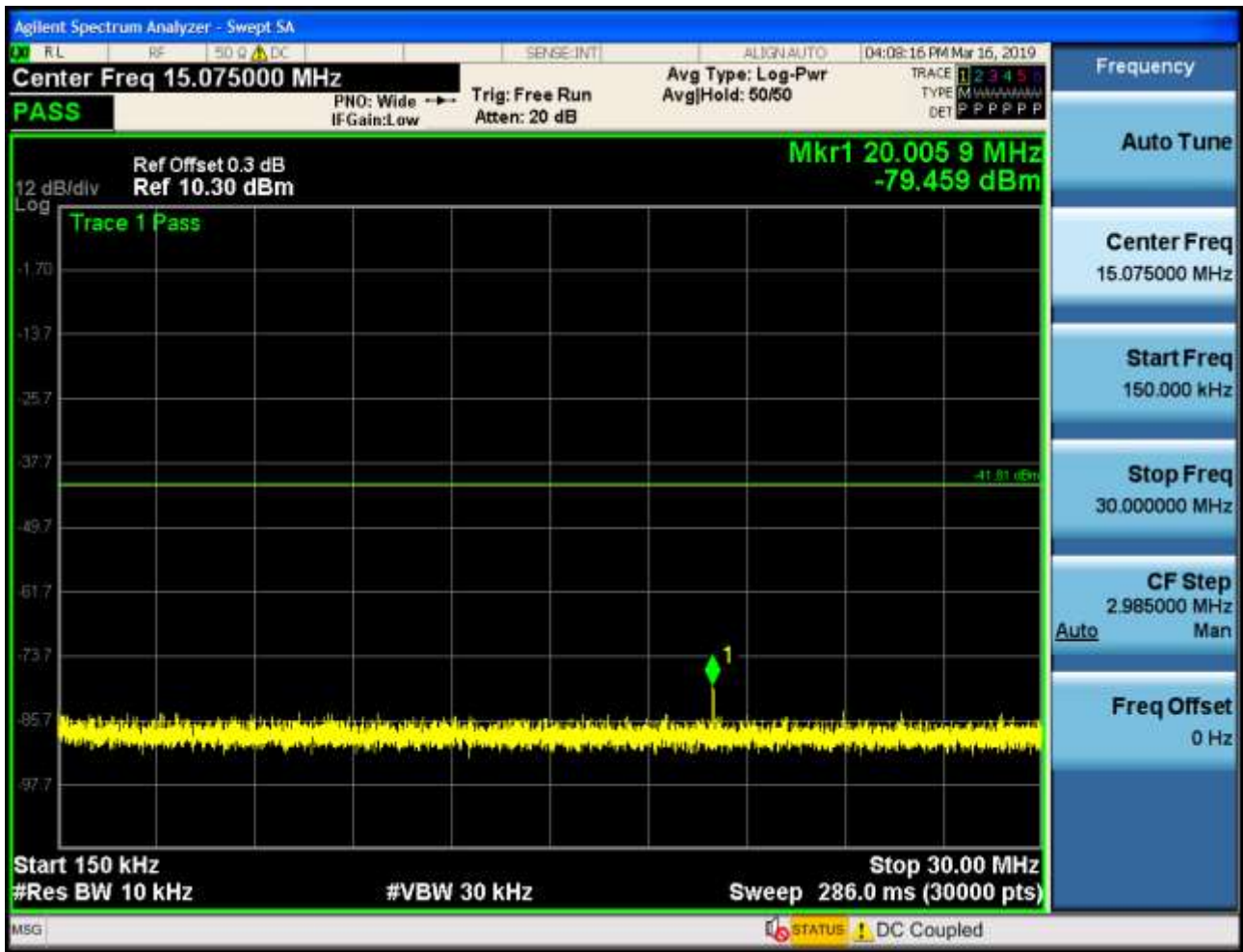
1.13 11N40SISO_Ant1_2422

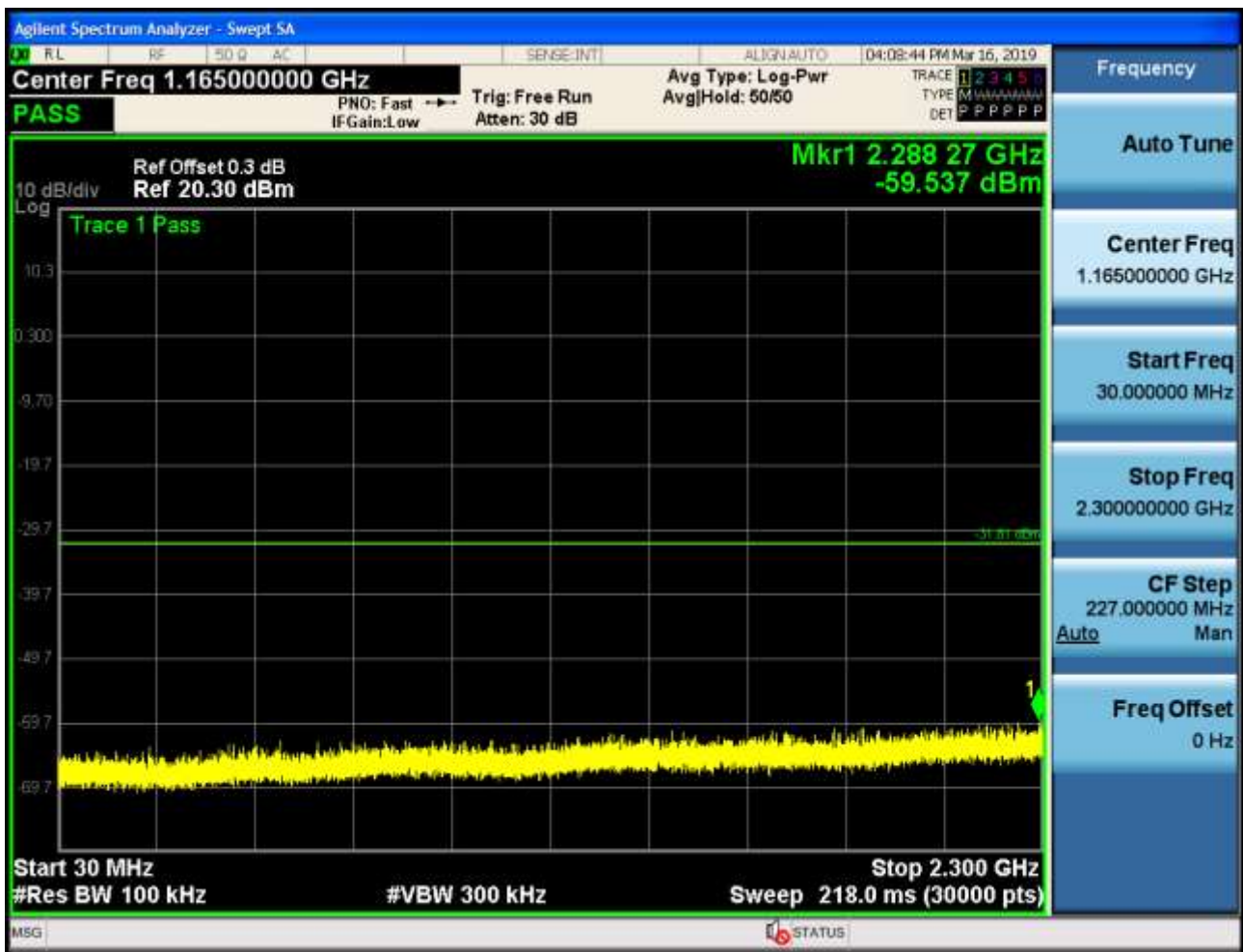
Pref:

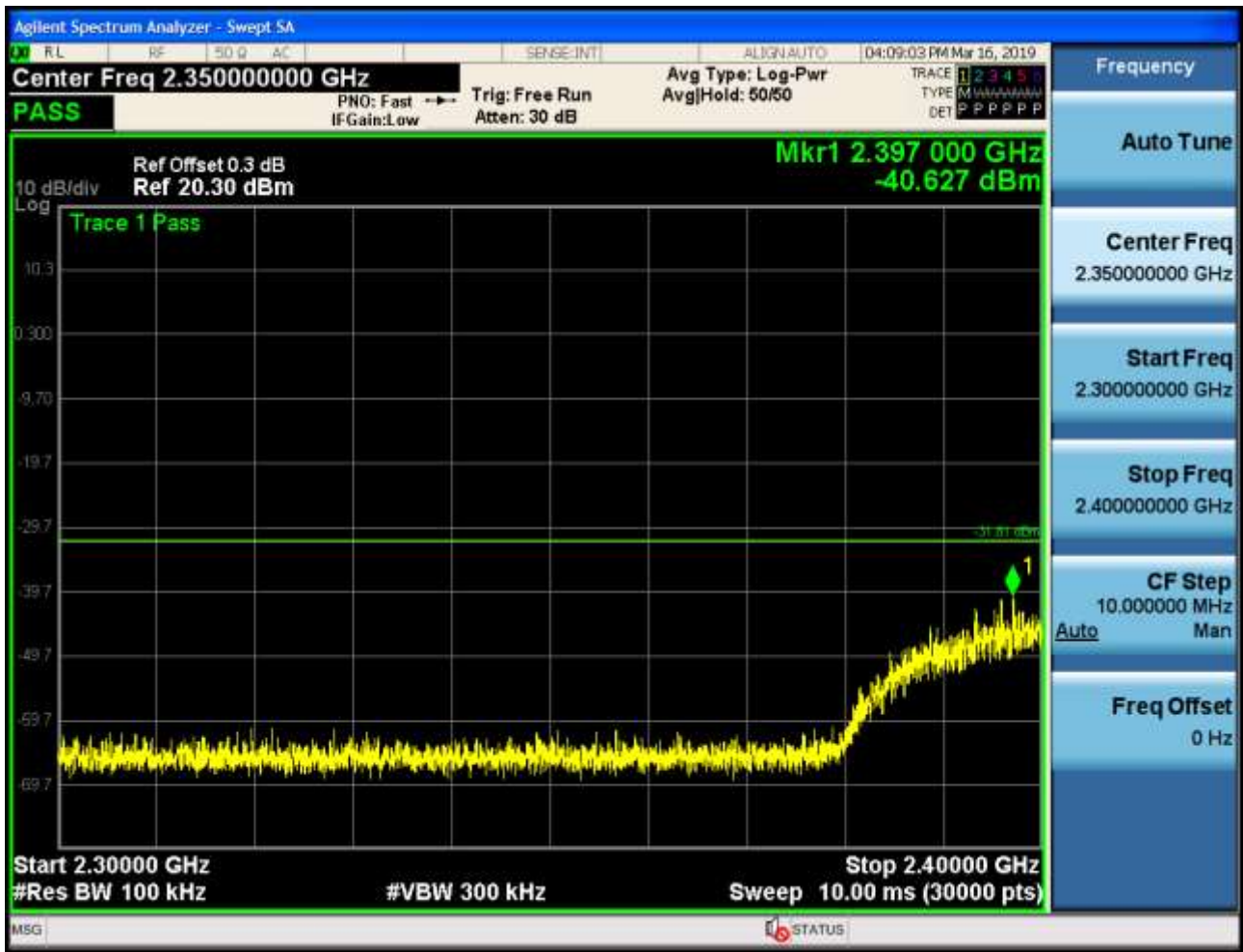


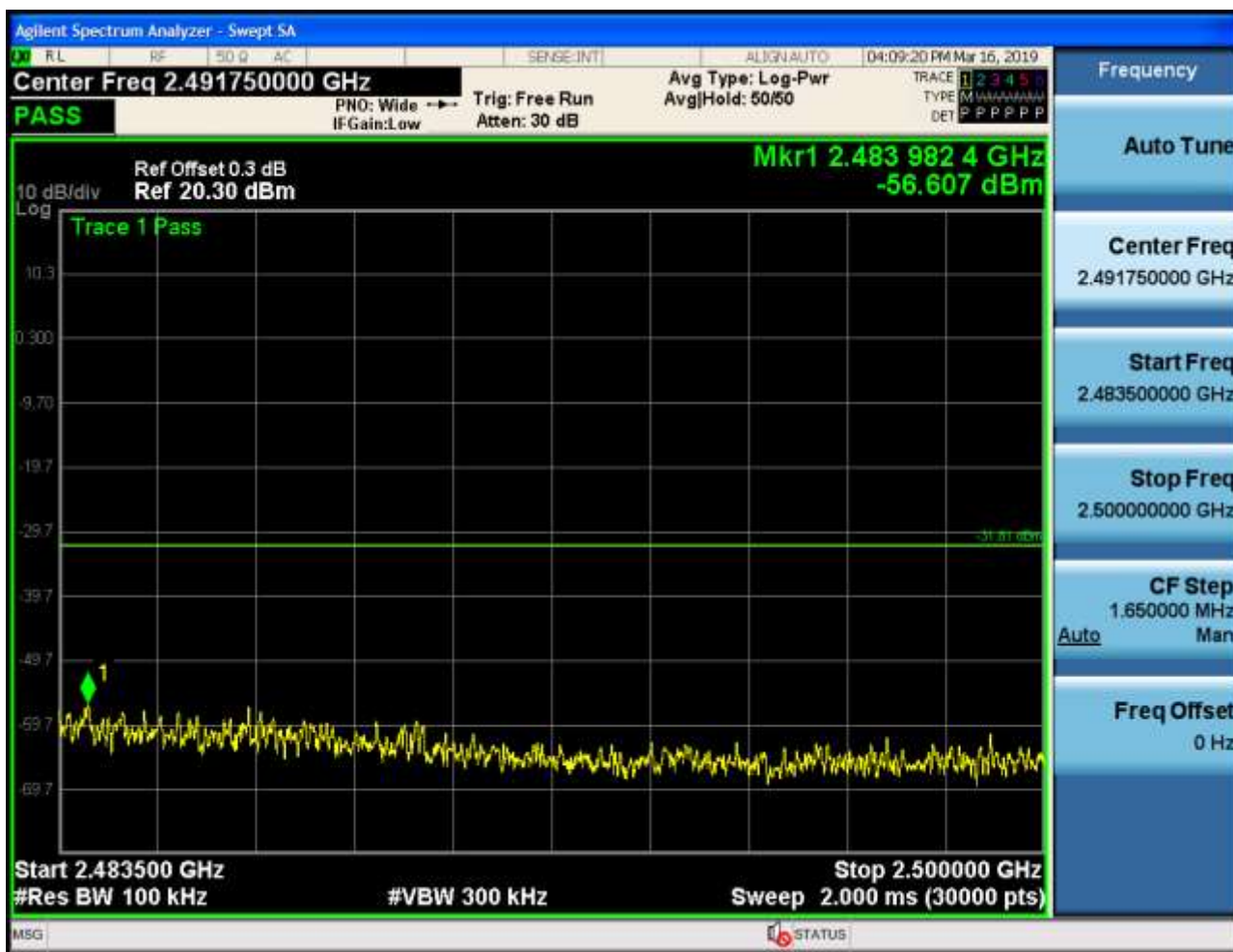
P_{uw}:







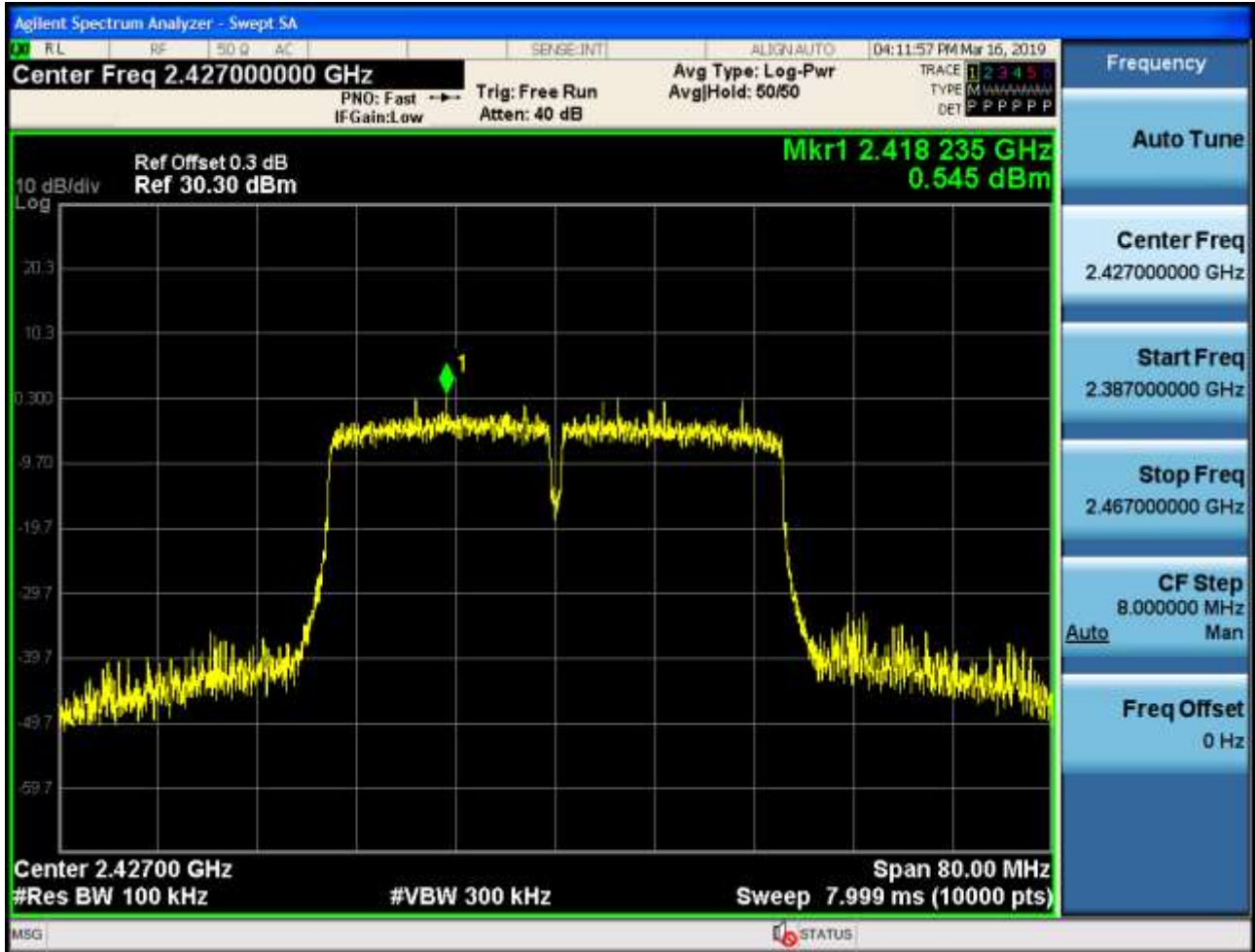






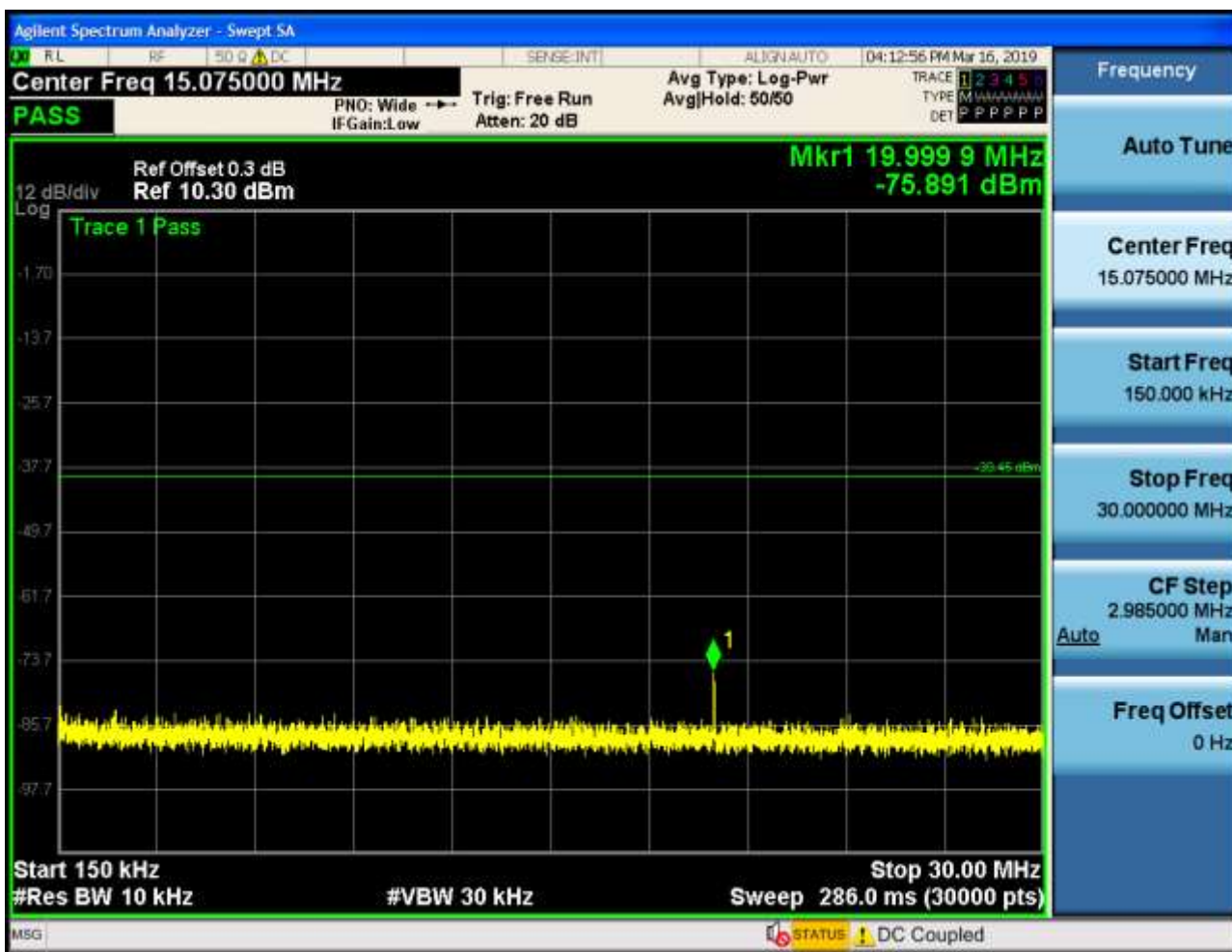
1.14 11N40SISO_Ant1_2427

Pref:

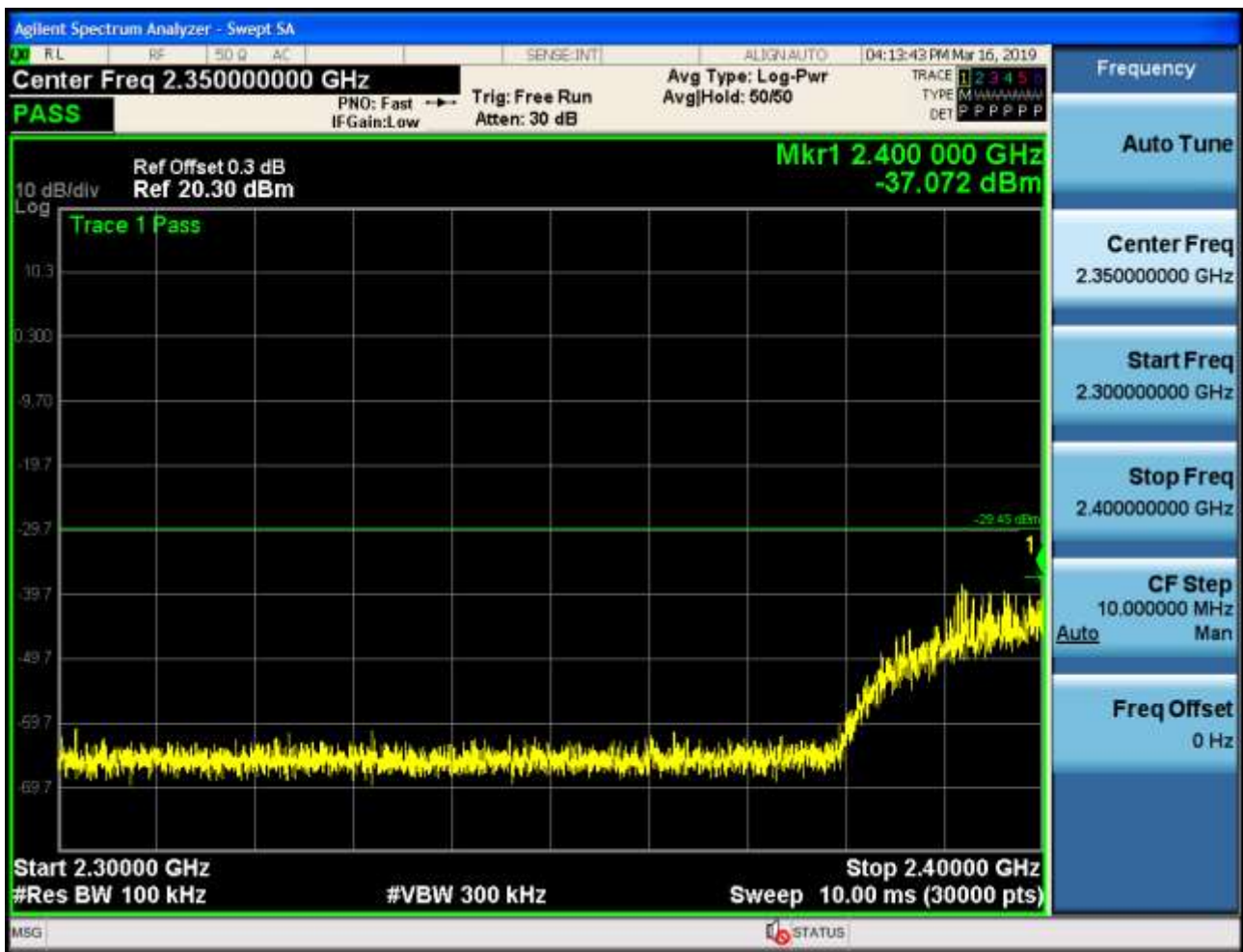


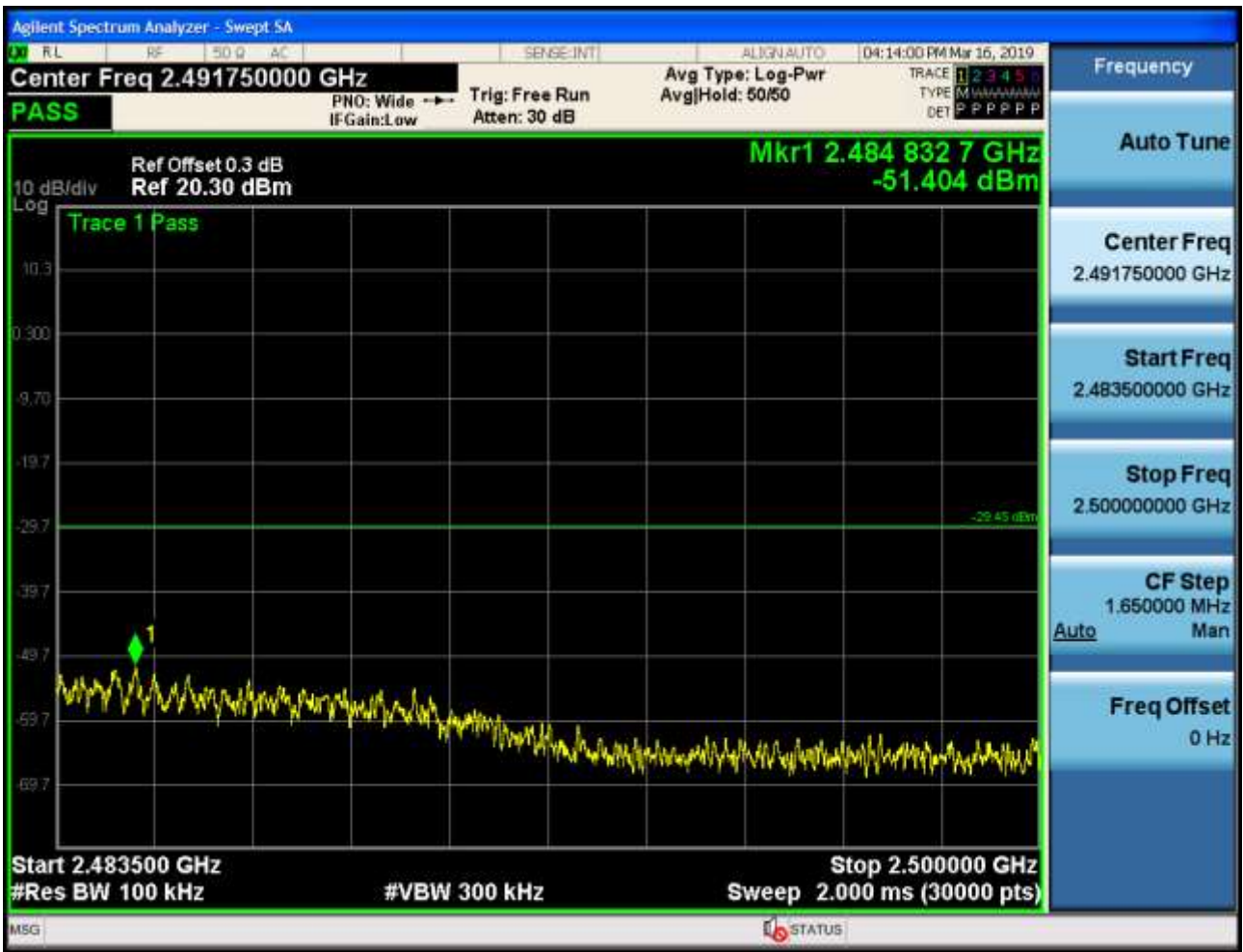
P_{uw}:







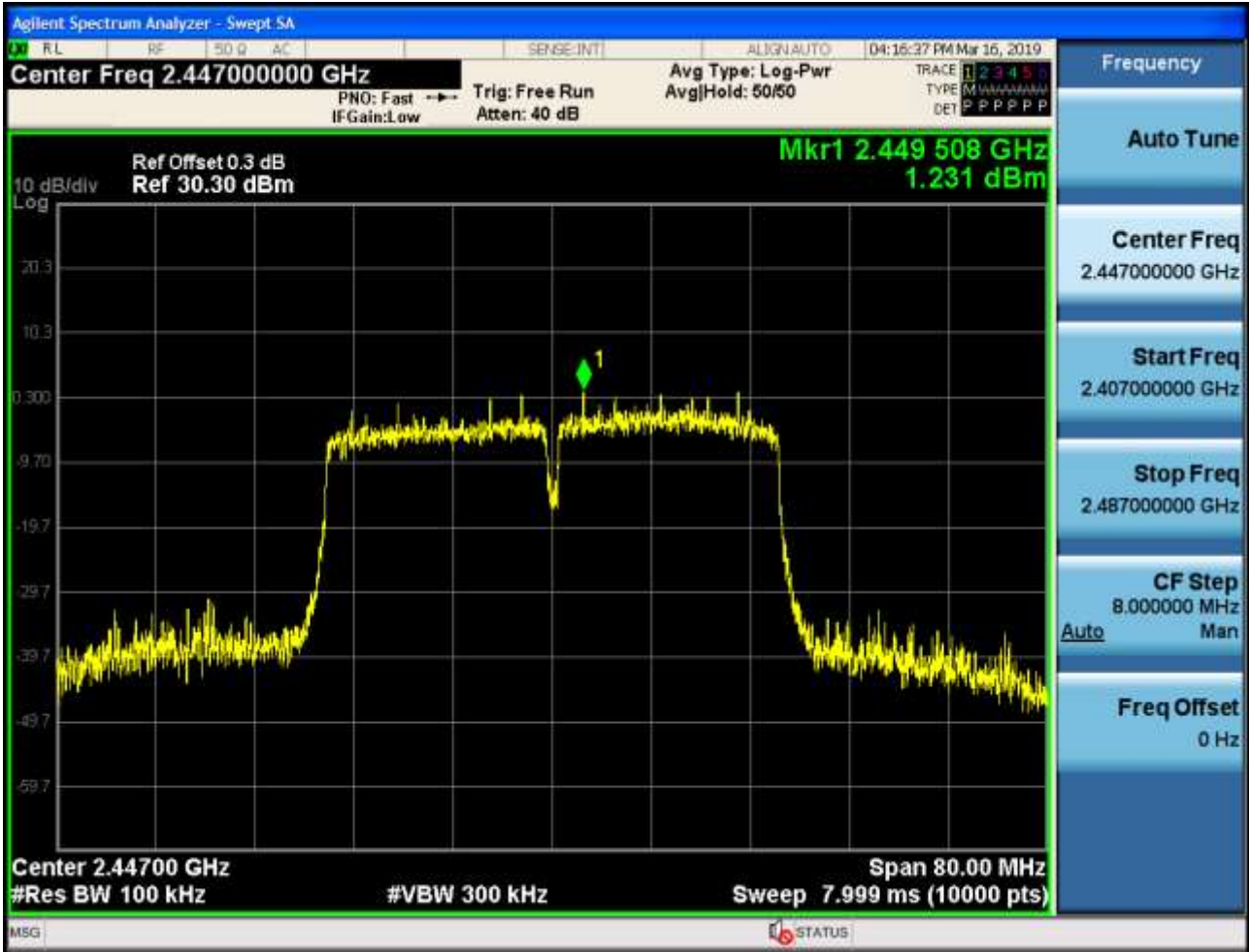






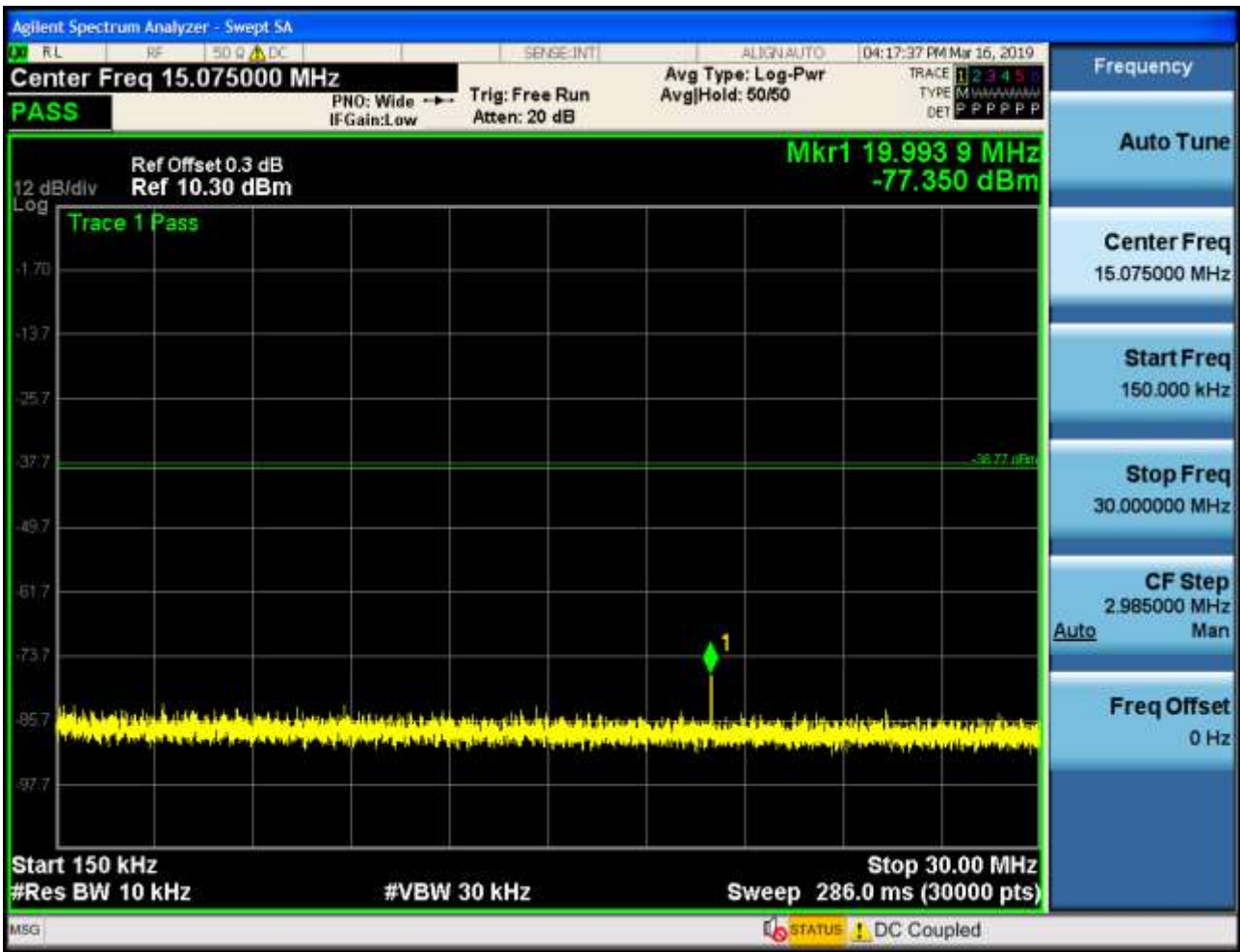
1.15 11N40SISO_Ant1_2447

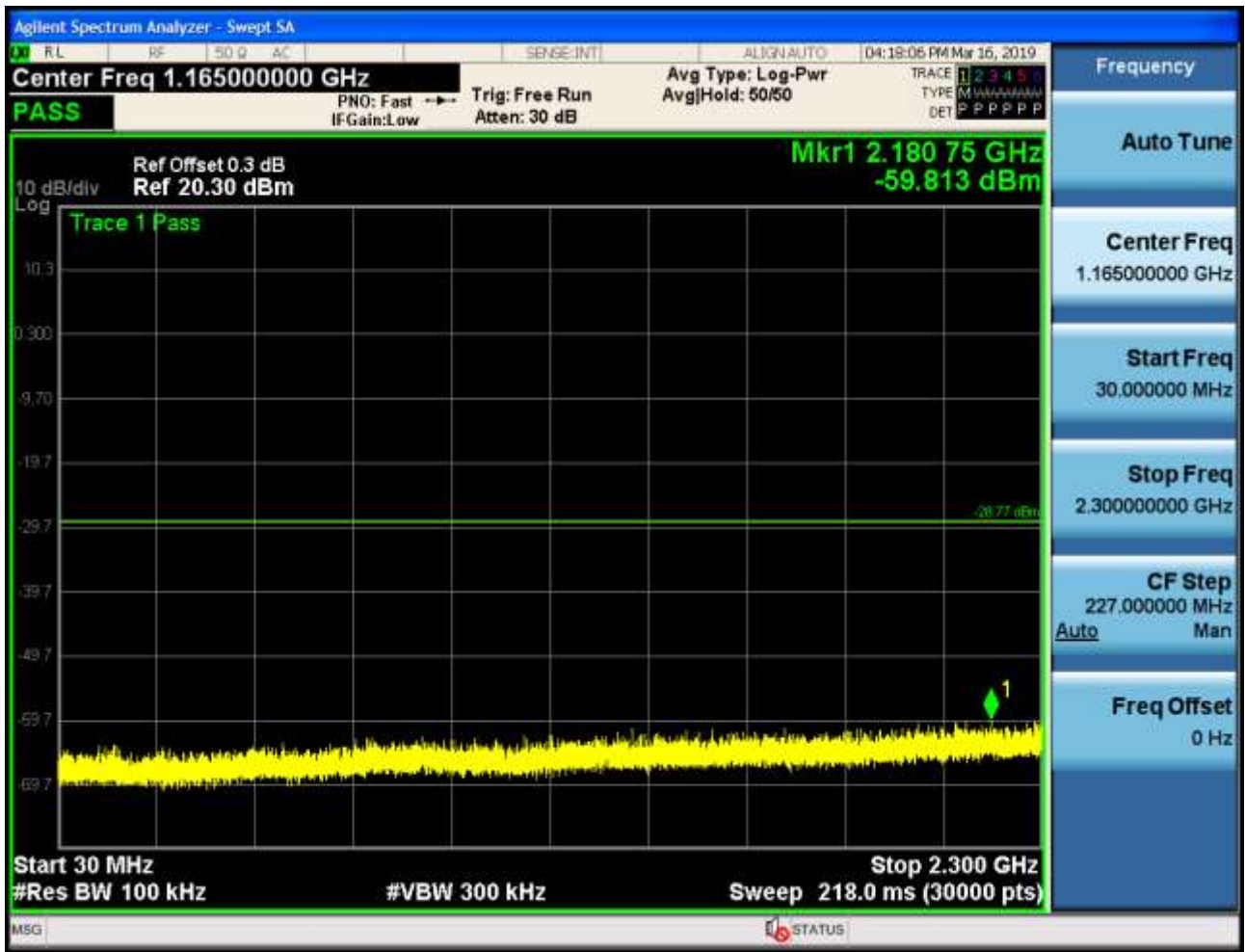
Pref:

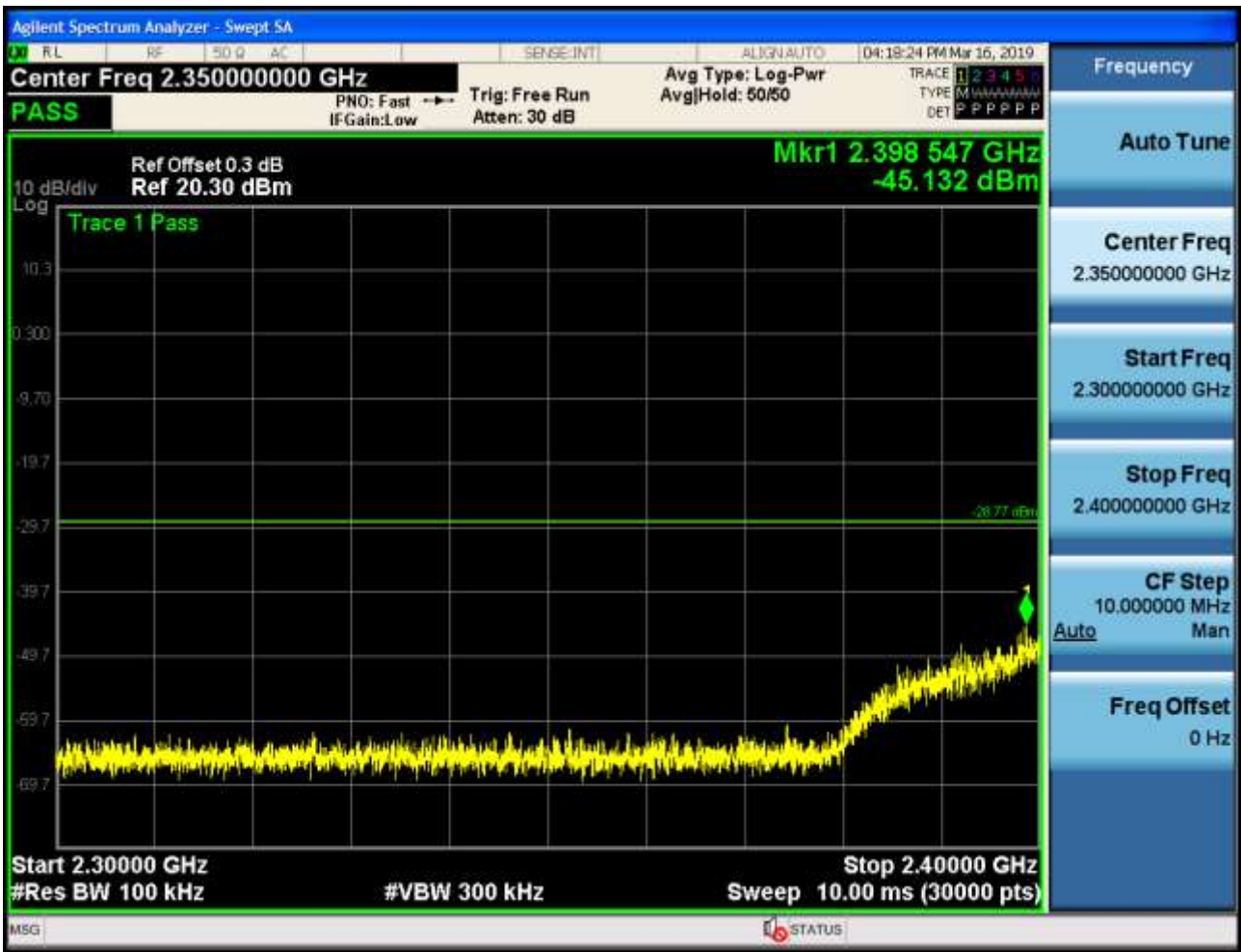


Puw:













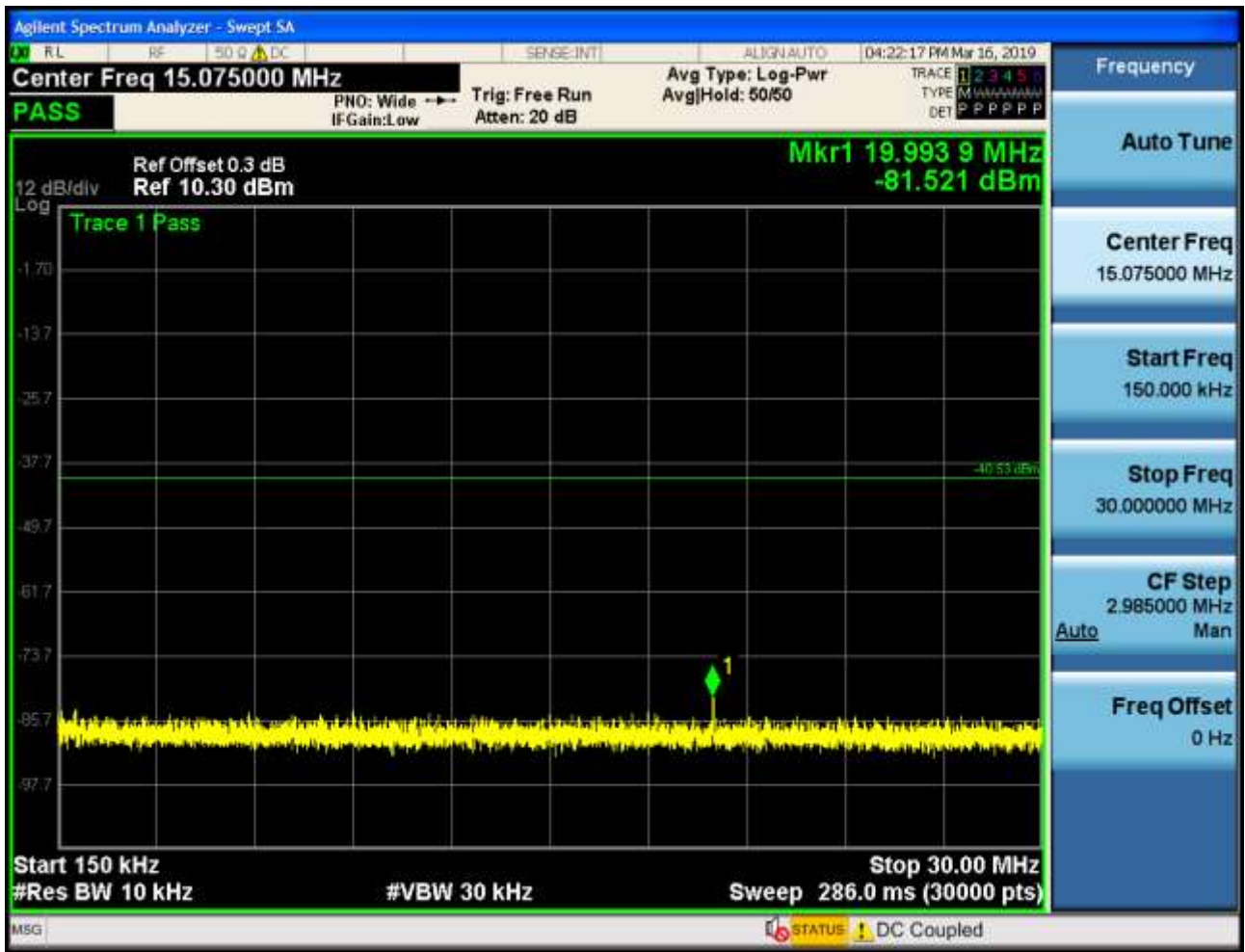
1.16 11N40SISO_Ant1_2452

Pref:

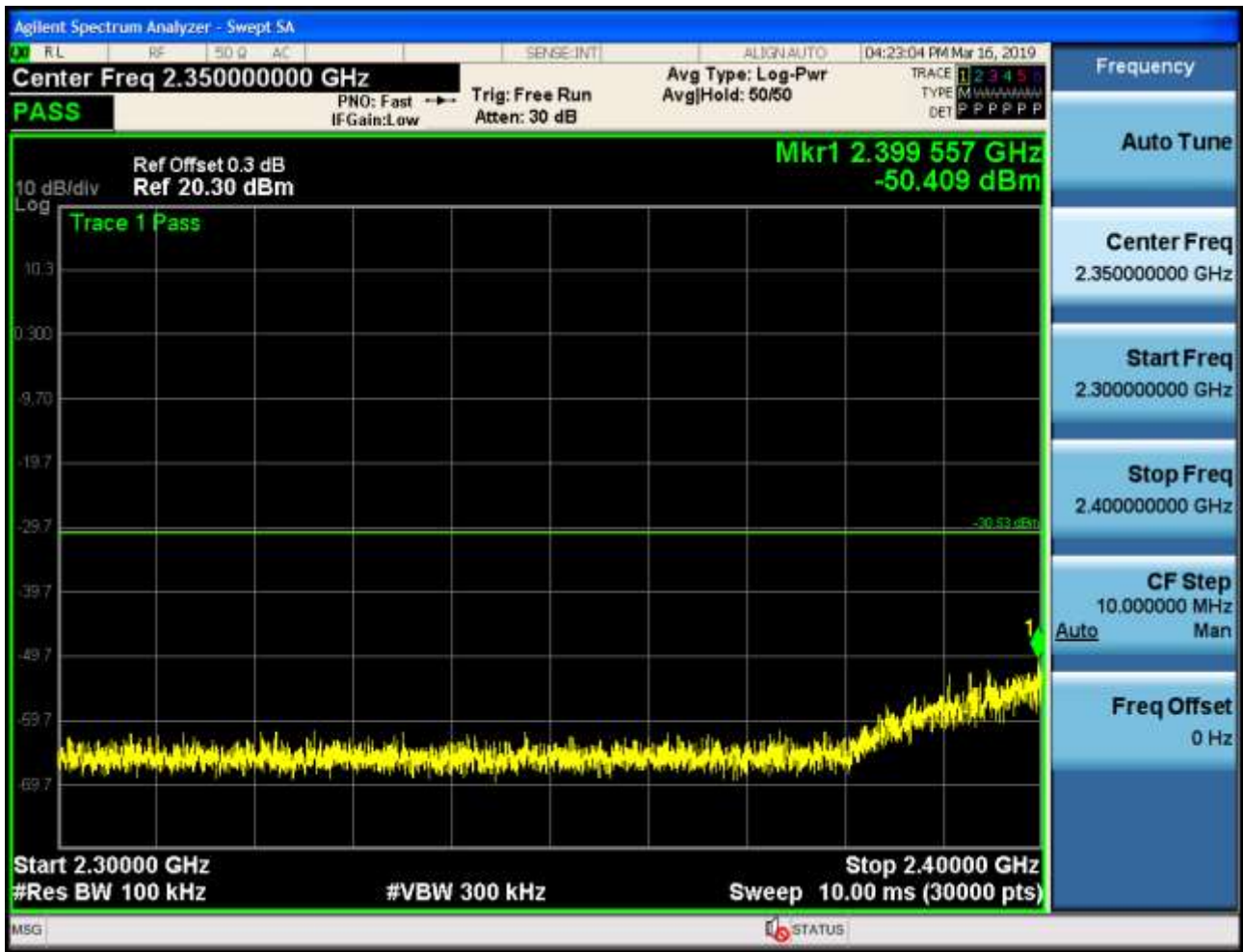


P_{uw}:













Appendix H: Radiated Spurious Emission & Spurious in Restricted Band

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

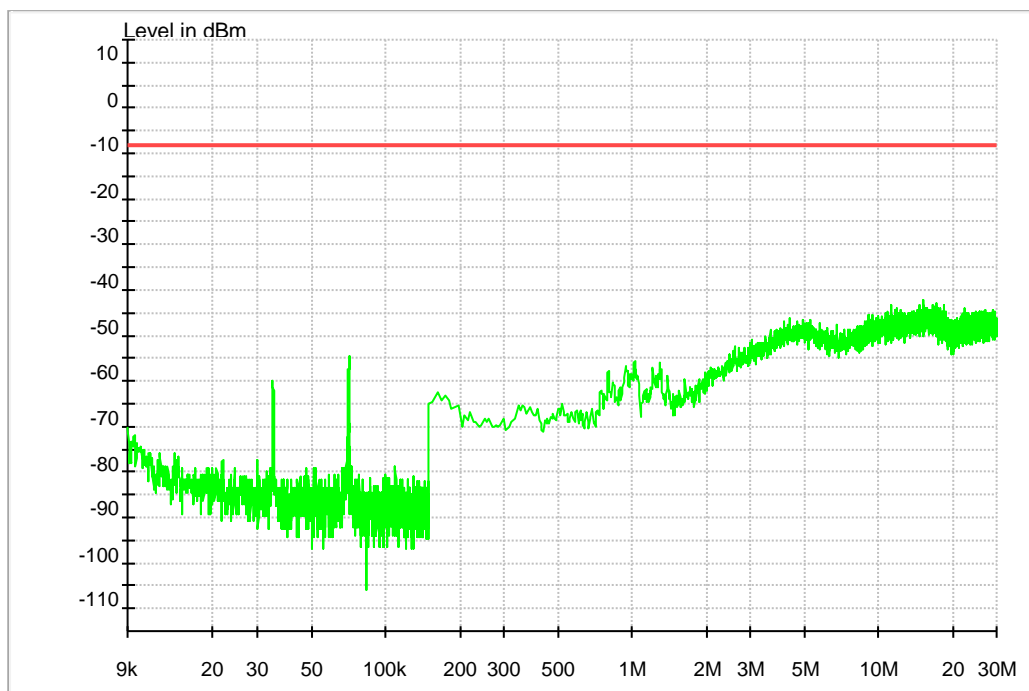
Below 1GHz, RBW = 100 kHz, VBW = 300 kHz.

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz.

The simultaneous transmission has been considered

1.1 Part 1: Testing Range of “9 kHz to 30MHz”

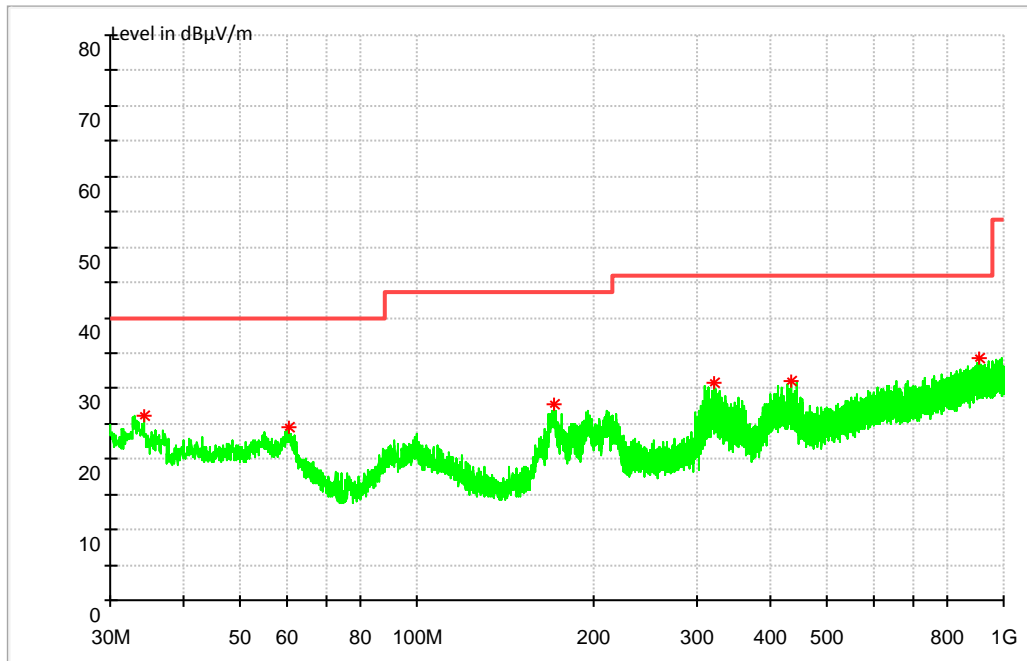
Note 1: The test results and plot for testing range of “9 kHz to 30 MHz” showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.



1.2 Part 2: Testing Range of “30 MHz to 1 GHz”

Note 1: The test results and plot for testing range of “30 MHz to 1 GHz” showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.

Note 2: The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).



MEASUREMENT RESULT: QP Detector

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Transd. (dB)
34.268000	26.11	40.00	13.89	100.0	V	145.0	13.0
60.603500	24.43	40.00	15.57	100.0	V	358.0	12.9
170.941000	27.78	43.50	15.72	100.0	H	186.0	10.1
320.612000	30.87	46.00	15.13	100.0	H	110.0	14.8
435.508500	31.12	46.00	14.88	100.0	V	82.0	17.4
911.487500	34.25	46.00	11.75	100.0	V	0.0	23.9

Note:

1, Level =Reading level by receiver + Transd (Antenna factor + cable loss - preamplifier gain)

The reading level is calculated by software which is not shown in the sheet.

2, Margin=Limit - Level

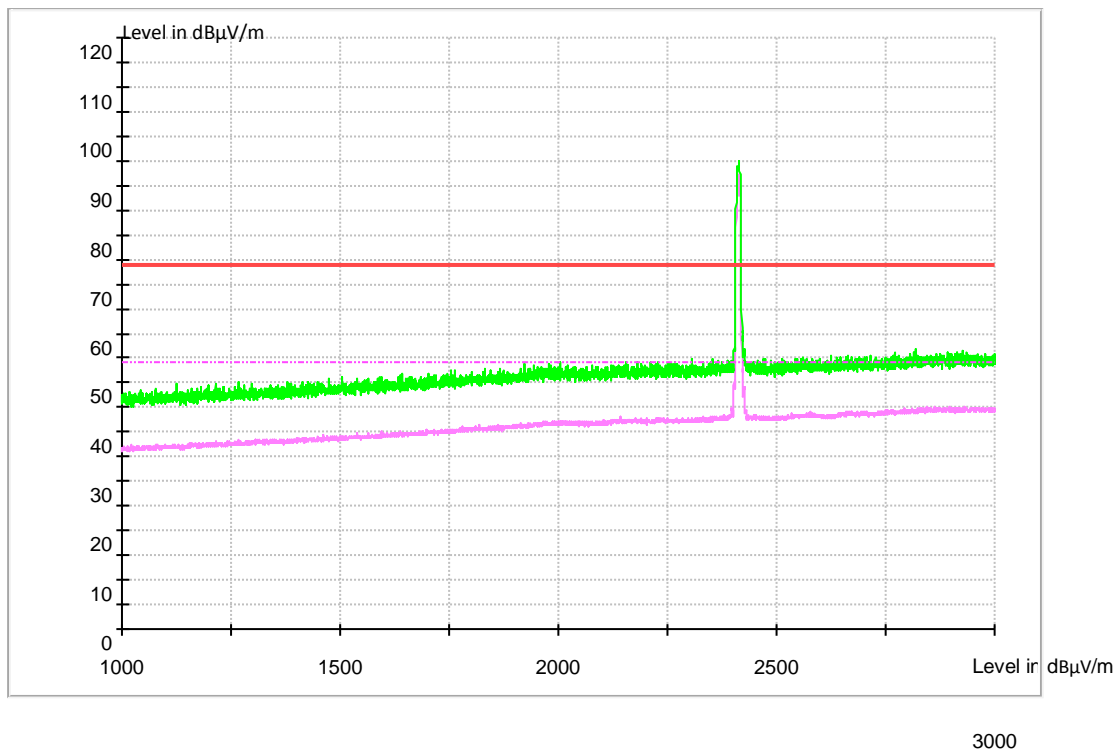
1.3 Part 3: Testing Range of “1 GHz to 3 GHz”

Note 1: The testing range of “1 GHz to 3 GHz” is for checking radiated emissions located in restricted bands near the EUT operating bands.

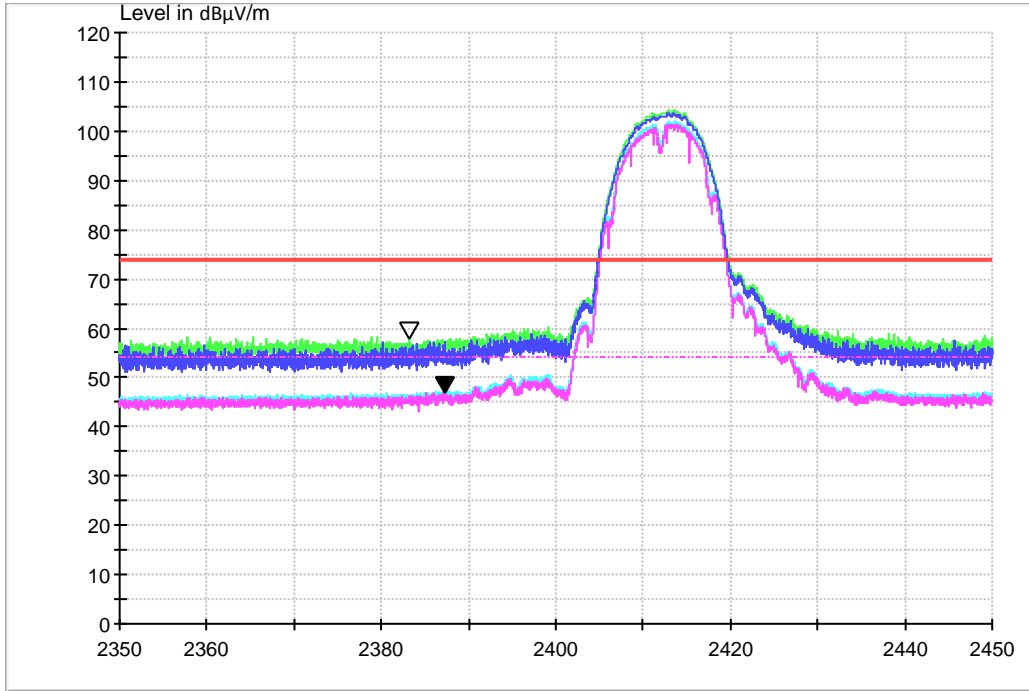
Note 2: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB μ V/m) and Average Limit (54 dB μ V/m).

Note 3: The peak spike exceeds the limit line is EUT’s operating frequency.

1.3.1 Test Mode: 11B



1.3.1.1 Channel 1 @Ant 1



MEASUREMENT RESULT: AV Detector

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth	Transd. (dB)
2387.18	47.24	54.00	6.76	150.0	H	220.0	-10.2

MEASUREMENT RESULT: PK Detector

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth	Transd. (dB)
2383.14	58.02	74.00	15.98	150.0	H	220.0	-10.2

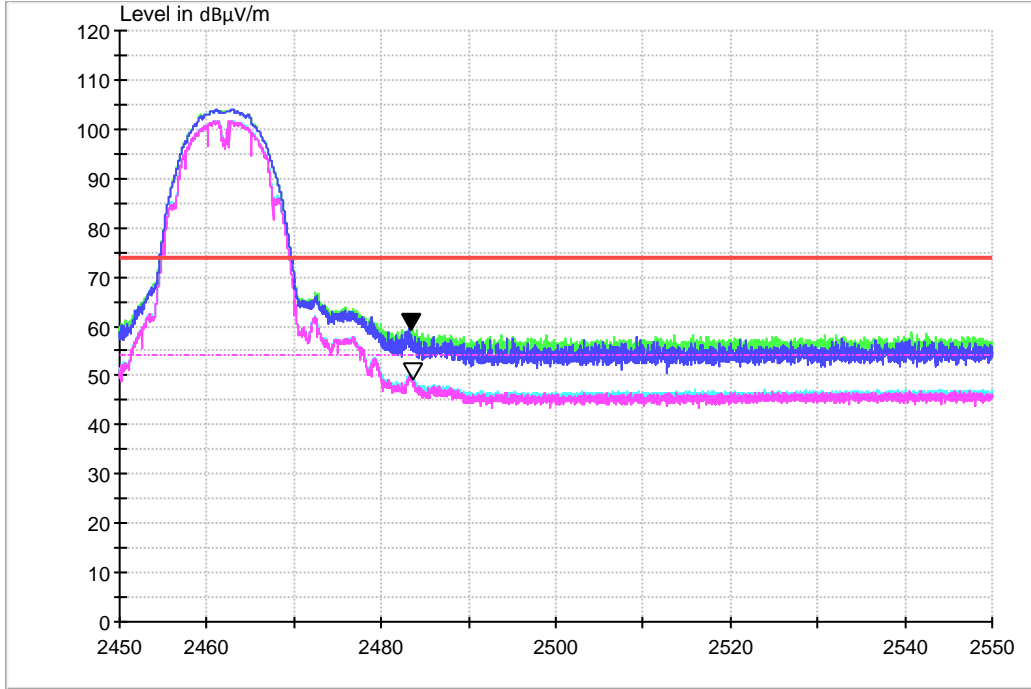
Note:

1, Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain)

The reading level is calculated by software which is not shown in the sheet.

2, Margin=Limit – Level

1.3.1.2 Channel 11 @Ant 1



MEASUREMENT RESULT: AV Detector

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth	Transd. (dB)
2483.58	49.63	54.00	4.37	150.0	H	220.0	-6.8

MEASUREMENT RESULT: PK Detector

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth	Transd. (dB)
2483.50	59.44	74.00	14.56	150.0	H	220.0	-6.8

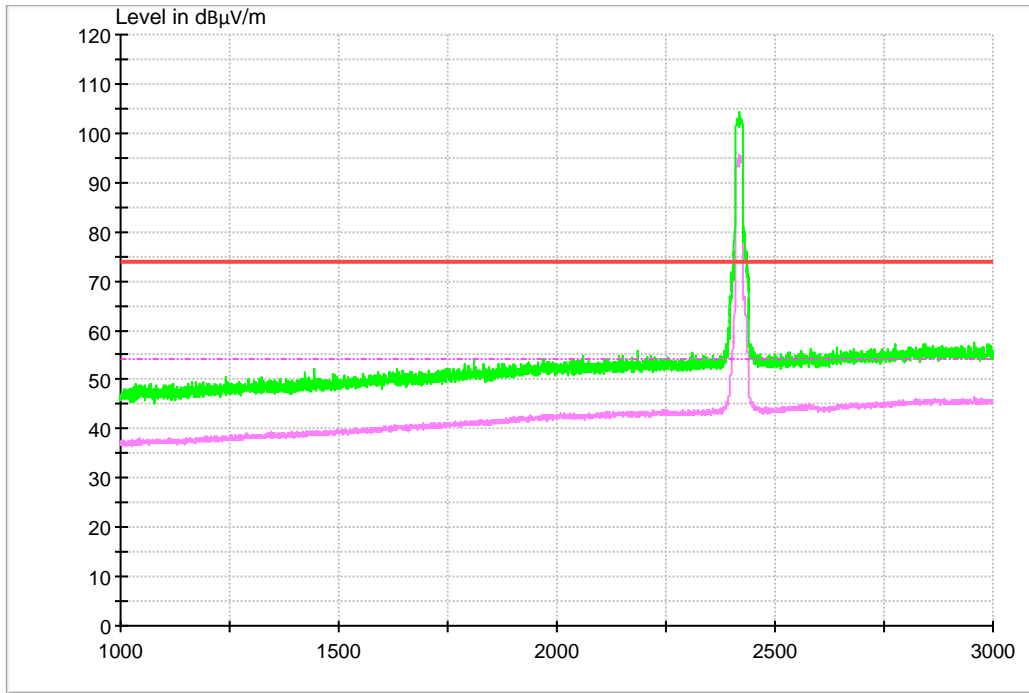
Note:

1, Level =Reading level by receiver + Transd (Antenna factor + cable loss - preamplifier gain)

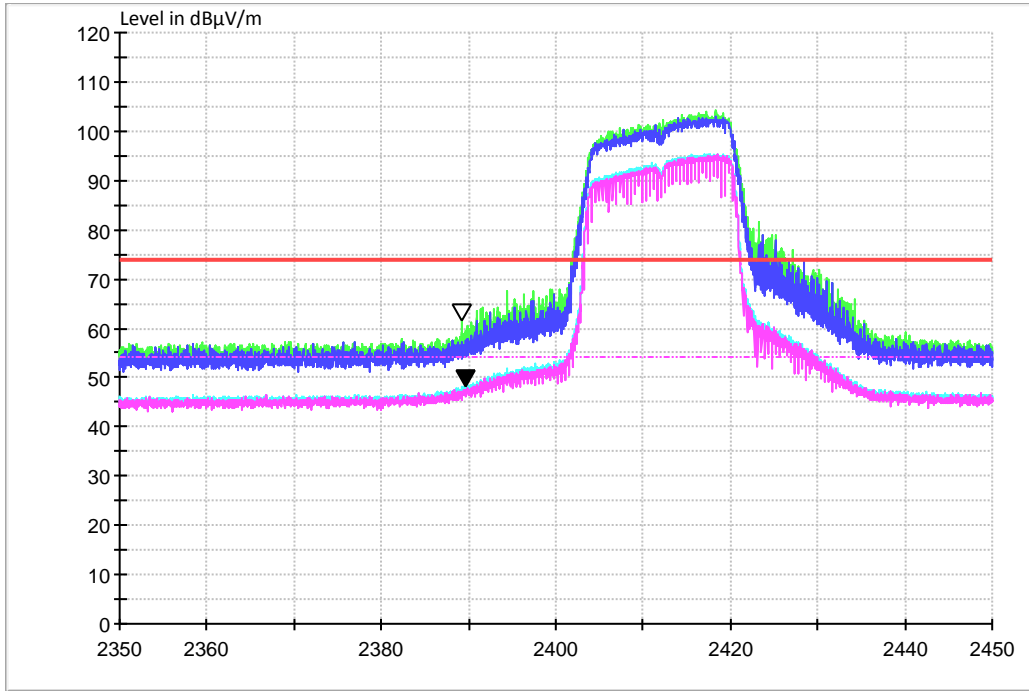
The reading level is calculated by software which is not shown in the sheet.

2, Margin=Limit – Level

1.3.2 Test Mode: 11G



1.3.2.1 Channel 1 @Ant 1



MEASUREMENT RESULT: AV Detector

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (th)	Transd. (dB)
2389.76	48.51	54.00	5.49	150.0	H	220.0	-10.2

MEASUREMENT RESULT: PK Detector

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (th)	Transd. (dB)
2389.20	61.79	74.00	12.21	150.0	H	220.0	-10.2

Note:

1, Level =Reading level by receiver + Transd (Antenna factor + cable loss - preamplifier gain)

The reading level is calculated by software which is not shown in the sheet.

2, Margin=Limit - Level