



Appendix for Testreport

Appendix A: DTS (6 dB) Bandwidth

In this document, the "DTS6dBBW" refers to the measured "DTS (6 dB) Bandwidth" value. In this Appendix, the "fc(DTS6dBBW)" refers to the centre of the measured "DTS6dBBW". The introduction of the "fc(DTS6dBBW)" is due to that other measurements use it as the spectrum analyzer setting.

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.

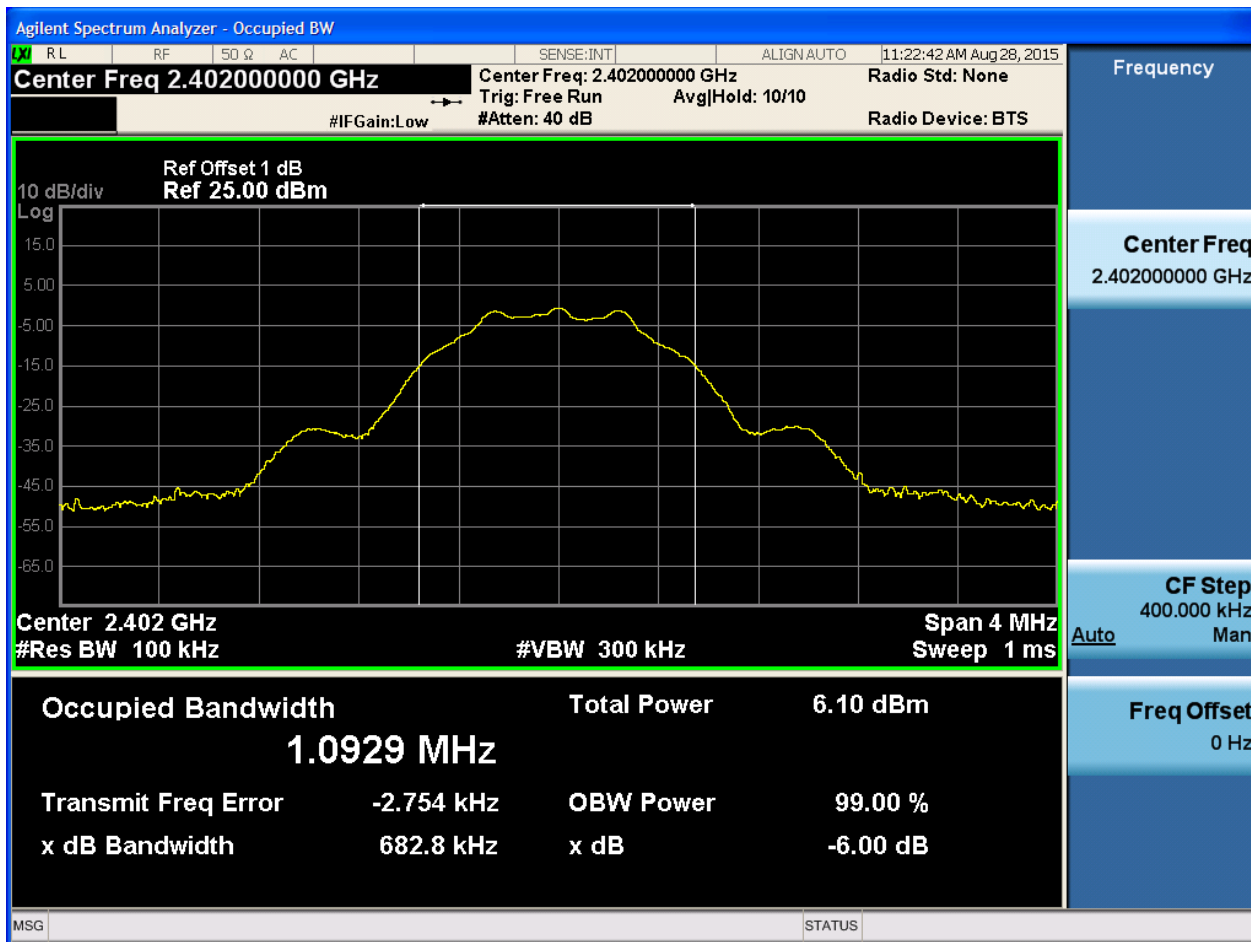
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	DTS6dBBW[MHz]	Verdict
TM1_Ch0	L	2402	Ant 1	0.68	pass
TM1_Ch19	M	2440	Ant 1	0.68	pass
TM1_Ch39	H	2480	Ant 1	0.68	pass



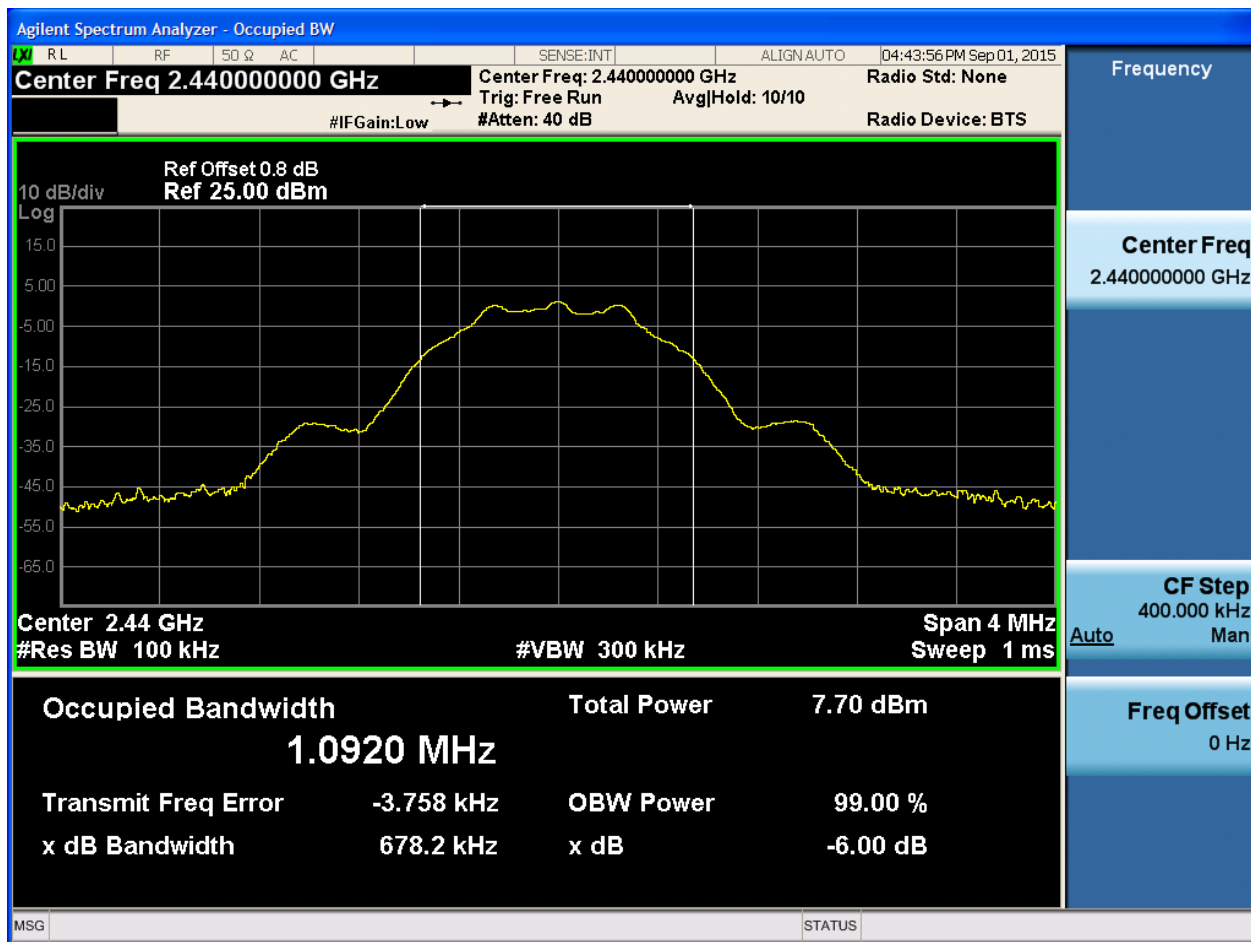
Part II - Test Plots

2.1 TM1_Ch0_L



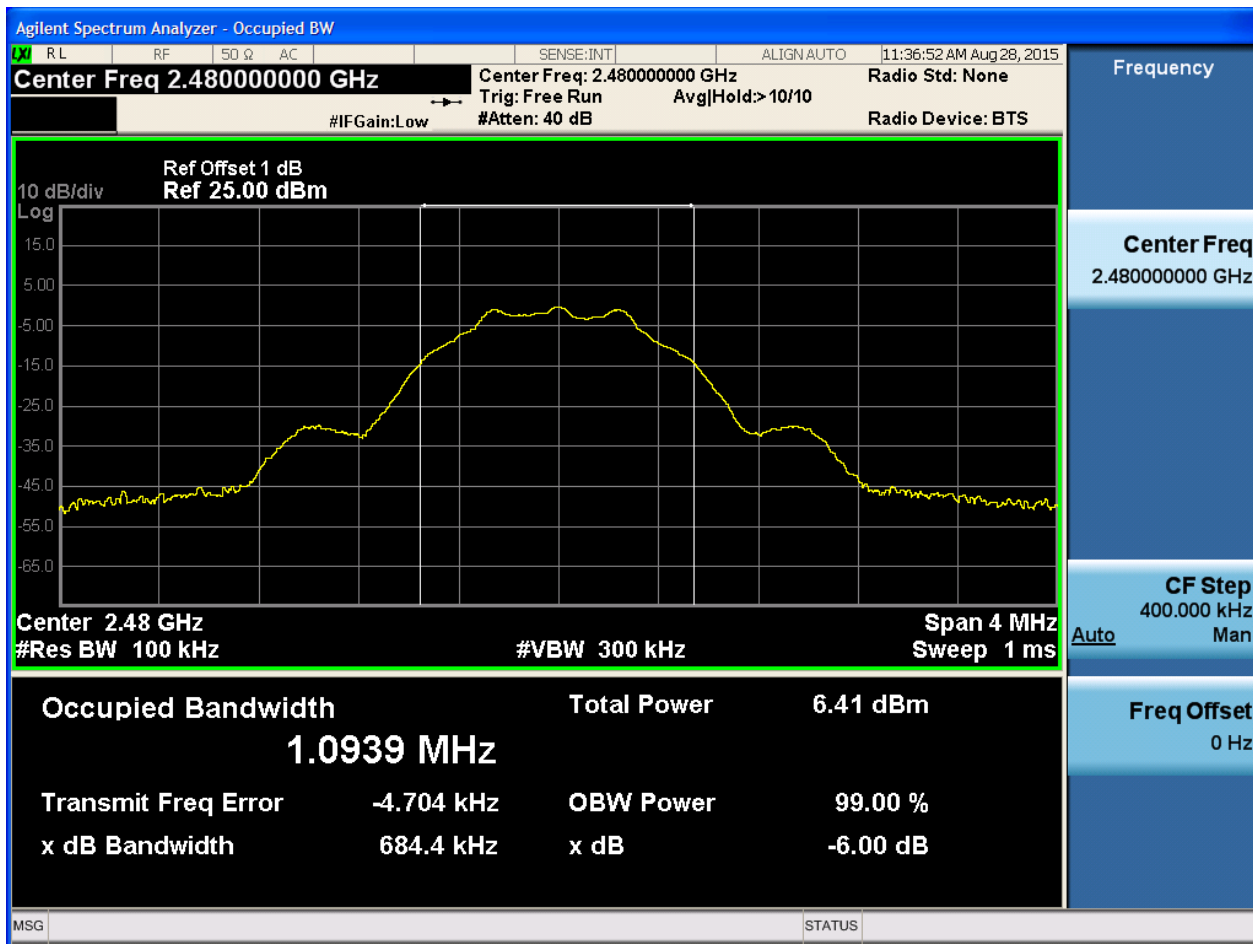


2.3 TM1_Ch19_M





2.5 TM1_Ch19_H





Appendix B: Occupied Bandwidth

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.

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Occupied Bandwidth [MHz]	Verdict
TM1_Ch0	L	2402	Ant 1	1.07	pass
TM1_Ch19	M	2440	Ant 1	1.07	pass
TM1_Ch39	H	2480	Ant 1	1.07	pass



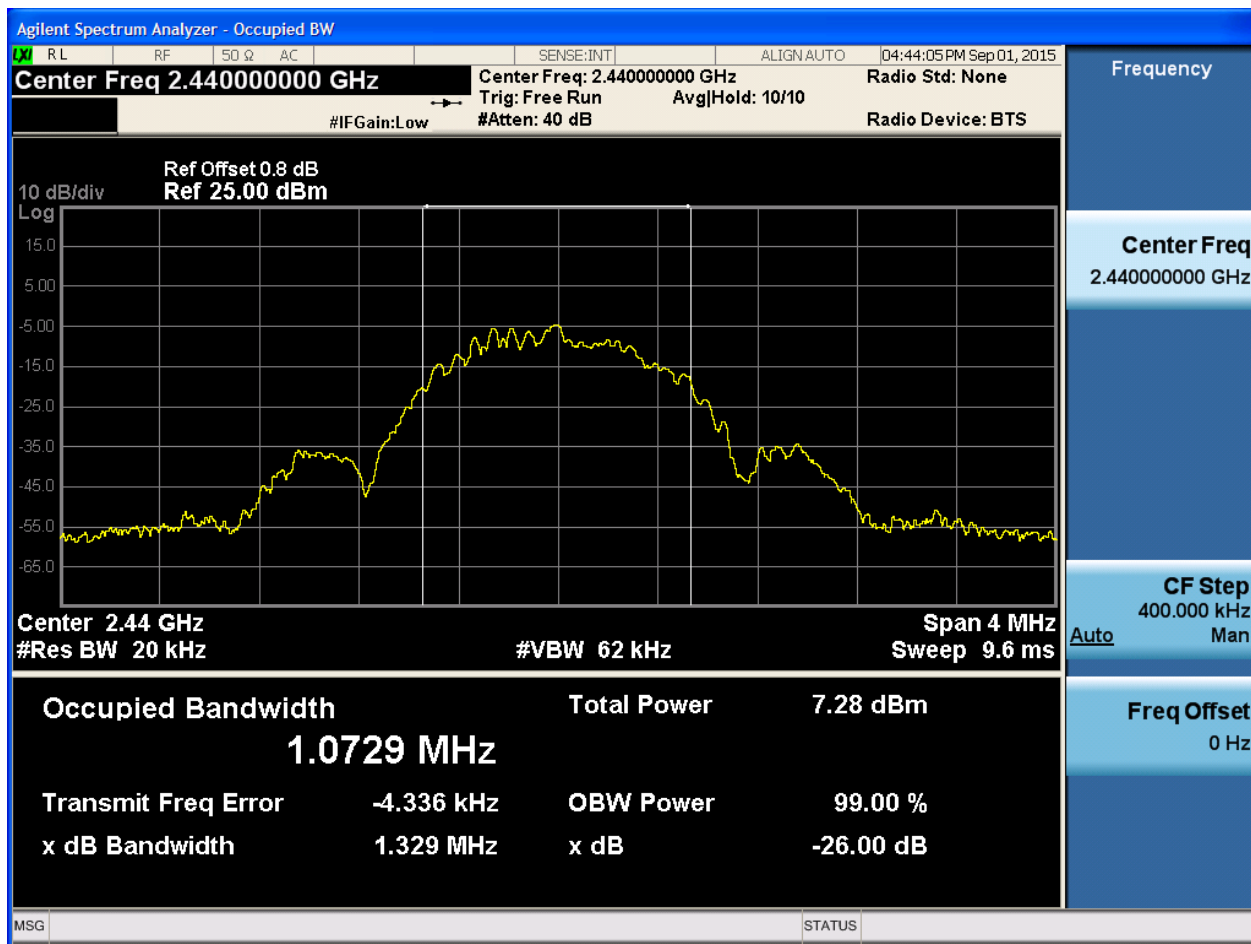
Part II - Test Plots

2.1 TM1_Ch0_L



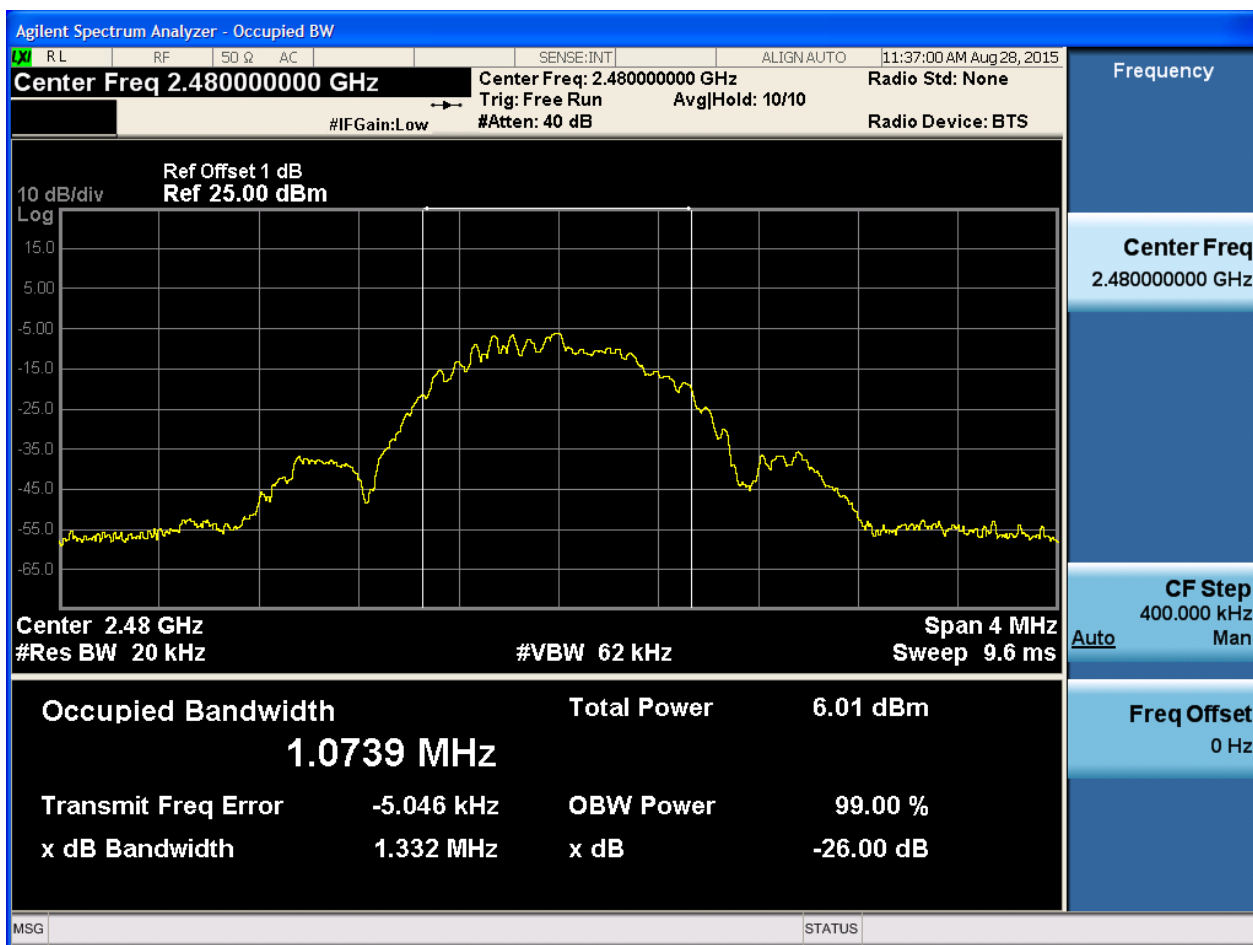


2.1 TM1_Ch19_M





2.1 TM1_Ch19_H





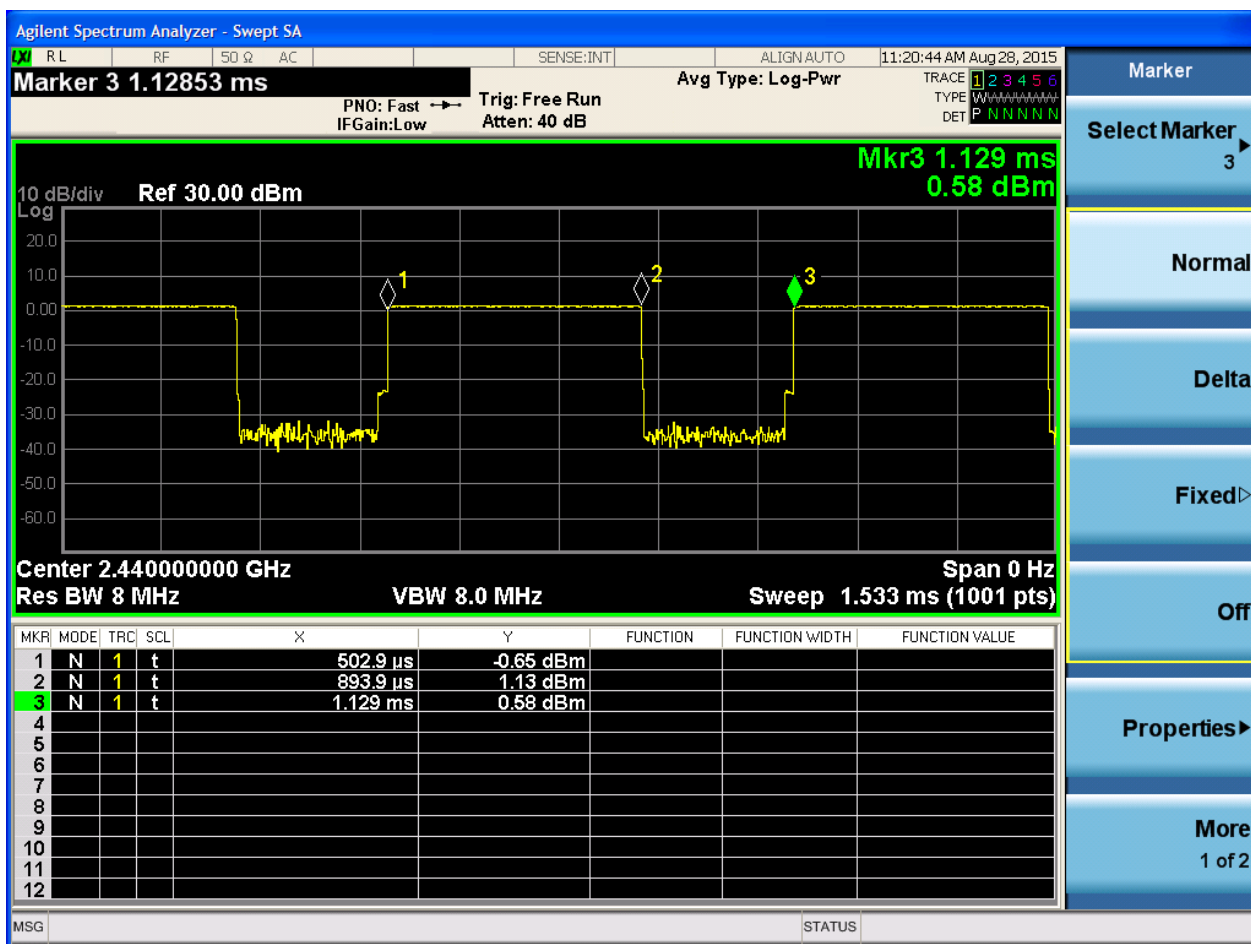
Appendix C: Duty Cycle

Part I - Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
TM1	CH0,CH19,CH39	63

Part II - Test Plots

2.1 TM1





Appendix D: Maximum Conducted Average Output Power

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Power[dBm]	Verdict
TM1_Ch0	L	2402	Ant 1	-0.47	pass
TM1_Ch19	M	2440	Ant 1	1.084	pass
TM1_Ch39	H	2480	Ant 1	-0.23	pass



Part II - Test Plots

2.1 TM1_Ch0_L





2.3 TM1_Ch19_M





2.5 TM1_Ch19_H



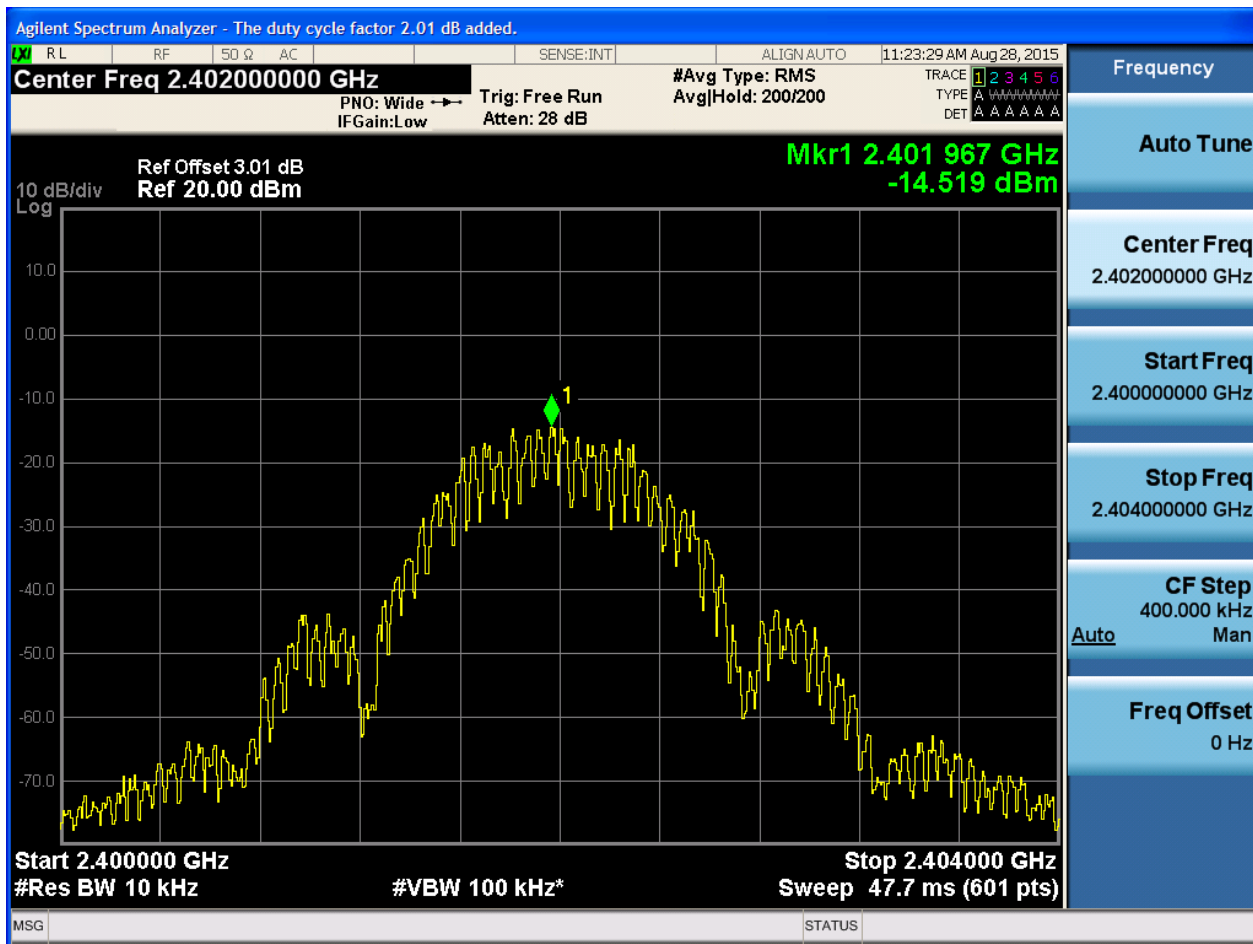
Appendix E: Maximum Power Spectral Density Level

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	PD[MHz]	Verdict
TM1_Ch0	L	2402	Ant 1	-14.52	pass
TM1_Ch19	M	2440	Ant 1	-10.54	pass
TM1_Ch39	H	2480	Ant 1	-12.42	pass

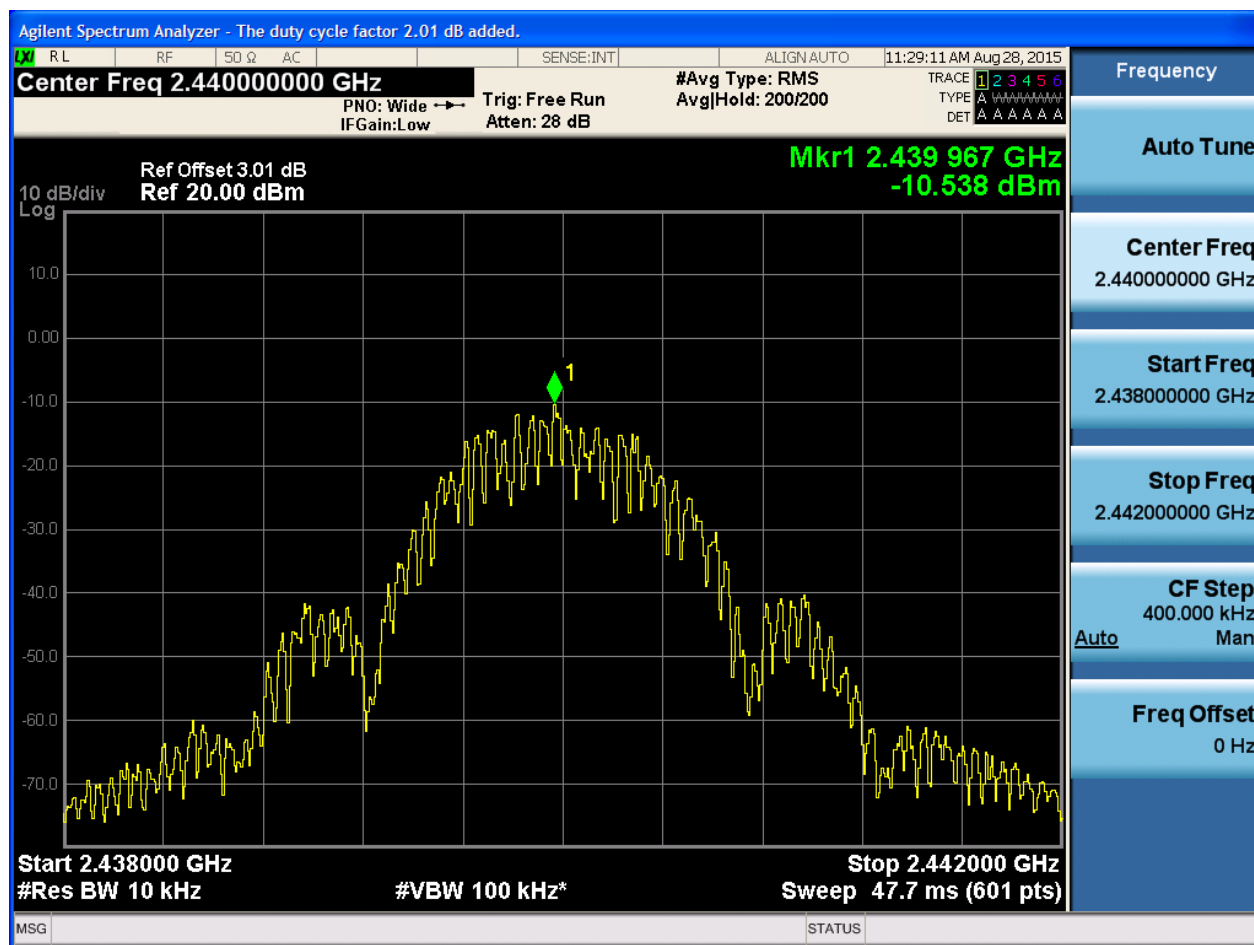
Part II - Test Plots

2.1 TM1_Ch0_L





2.3 TM1_Ch19_M





2.5 TM1_Ch19_H





Appendix F: Band Edges Compliance

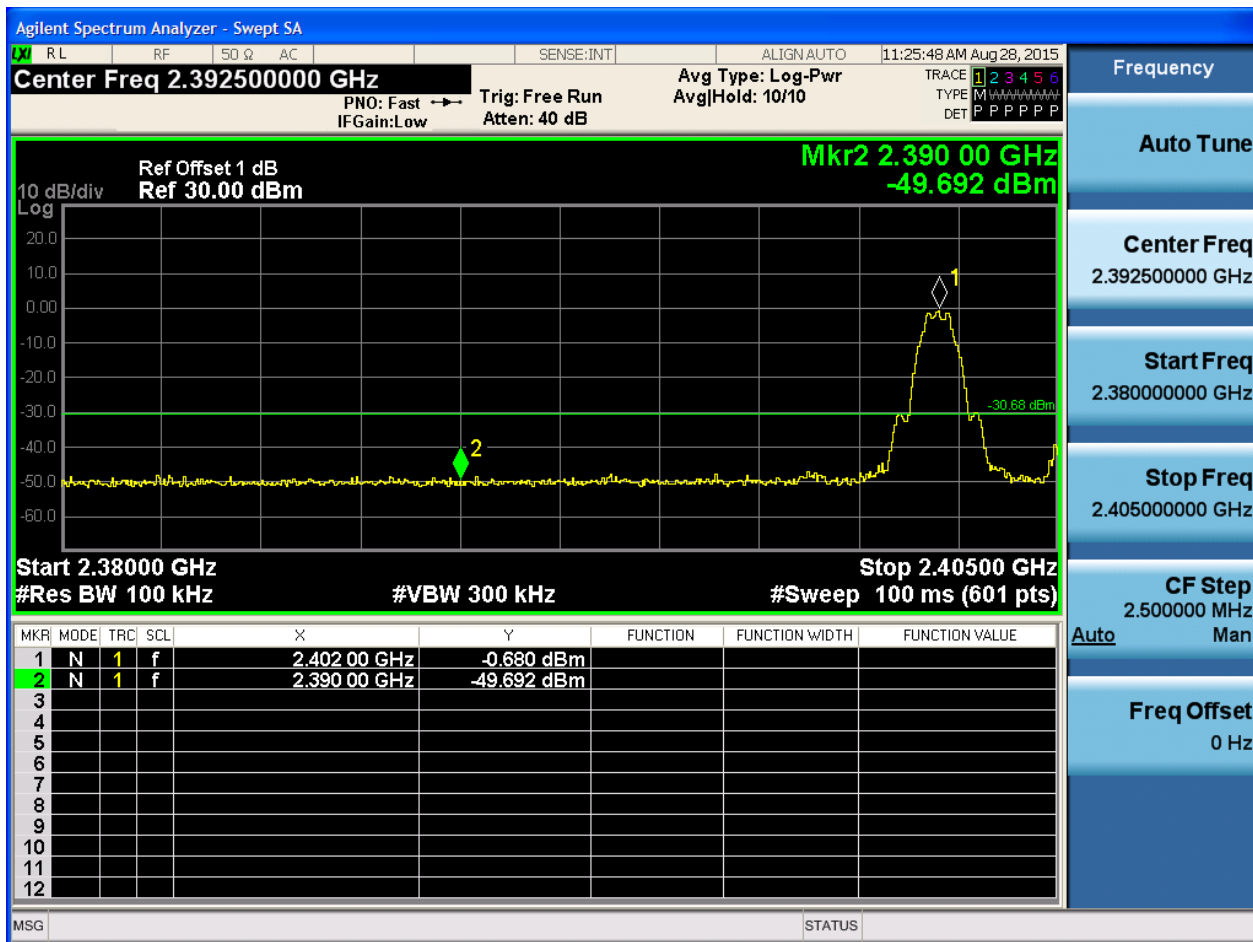
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
TM1_Ch0	L	2402	Ant 1	-.68	-49.69	pass
TM1_Ch39	H	2480	Ant 1	-.42	-43.74	pass



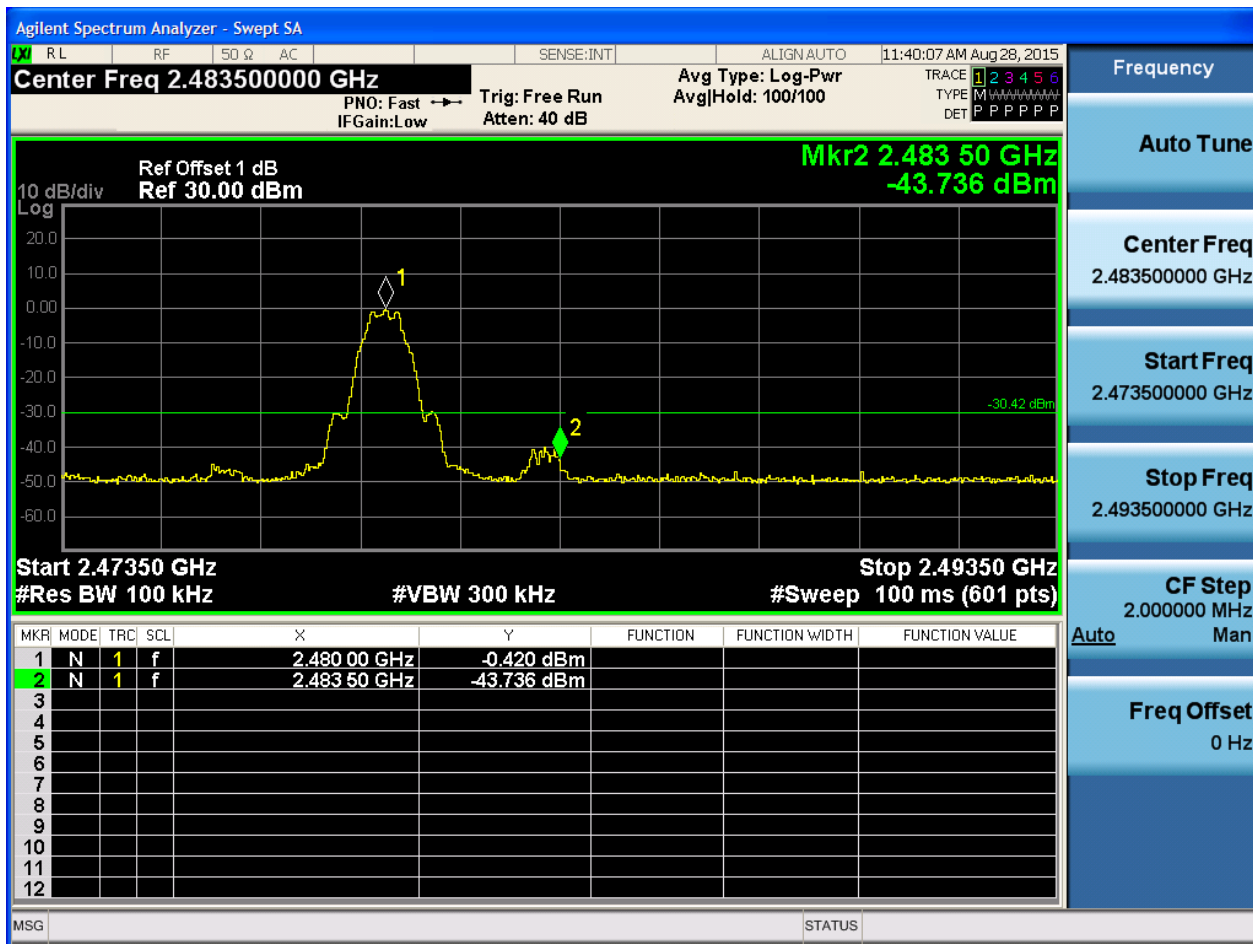
Part II - Test Plots

2.1 TM1_Ch0_L





2.3 TM1_Ch19_H



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 plots for detailed".

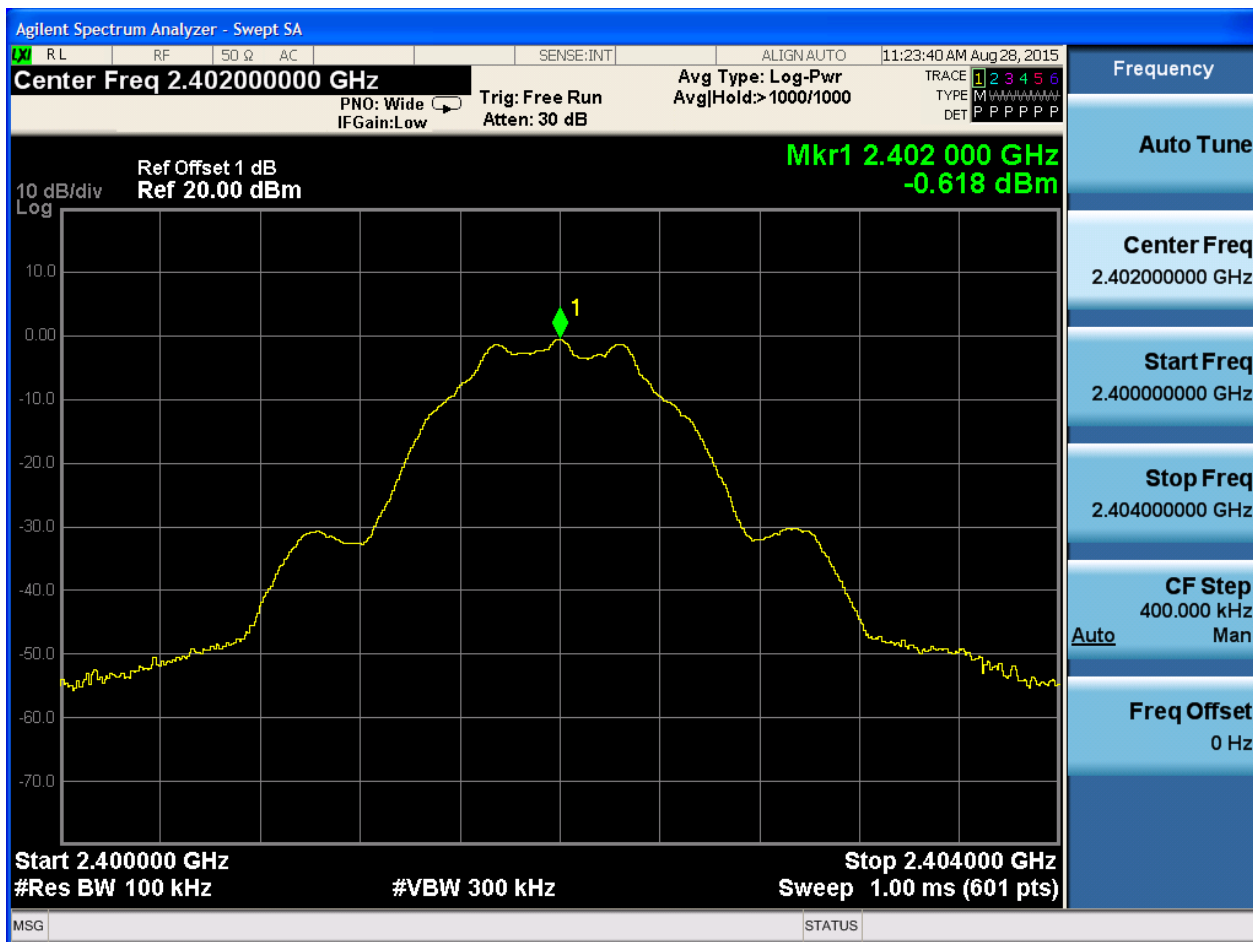
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
TM1_Ch0	L	2402	Ant 1	-.62	<limit	pass
TM1_Ch19	M	2440	Ant 1	2.03	<limit	pass
TM1_Ch39	H	2480	Ant 1	-.27	<limit	pass

Part II - Test Plots

2.1 TM1_Ch0_L

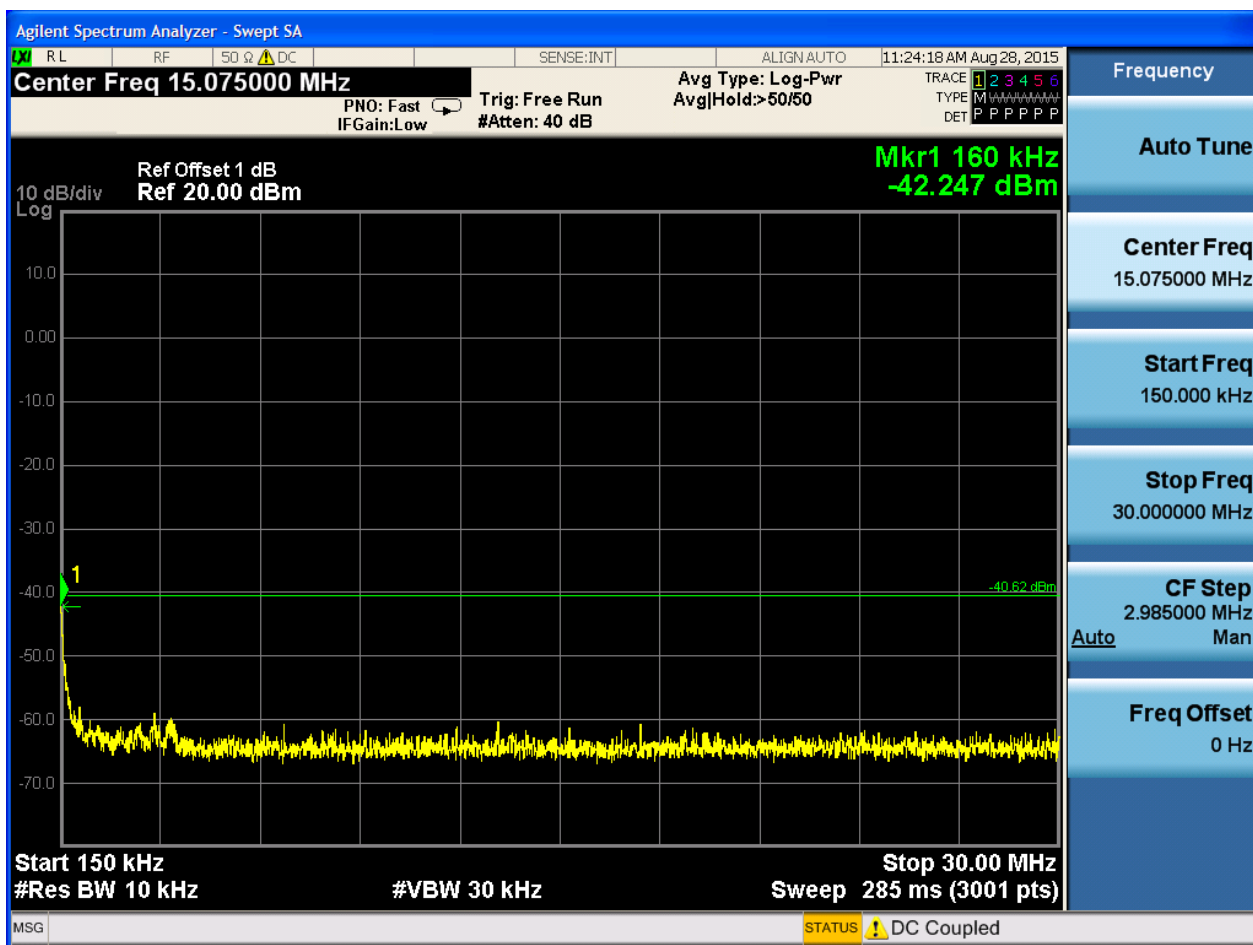
Pref:

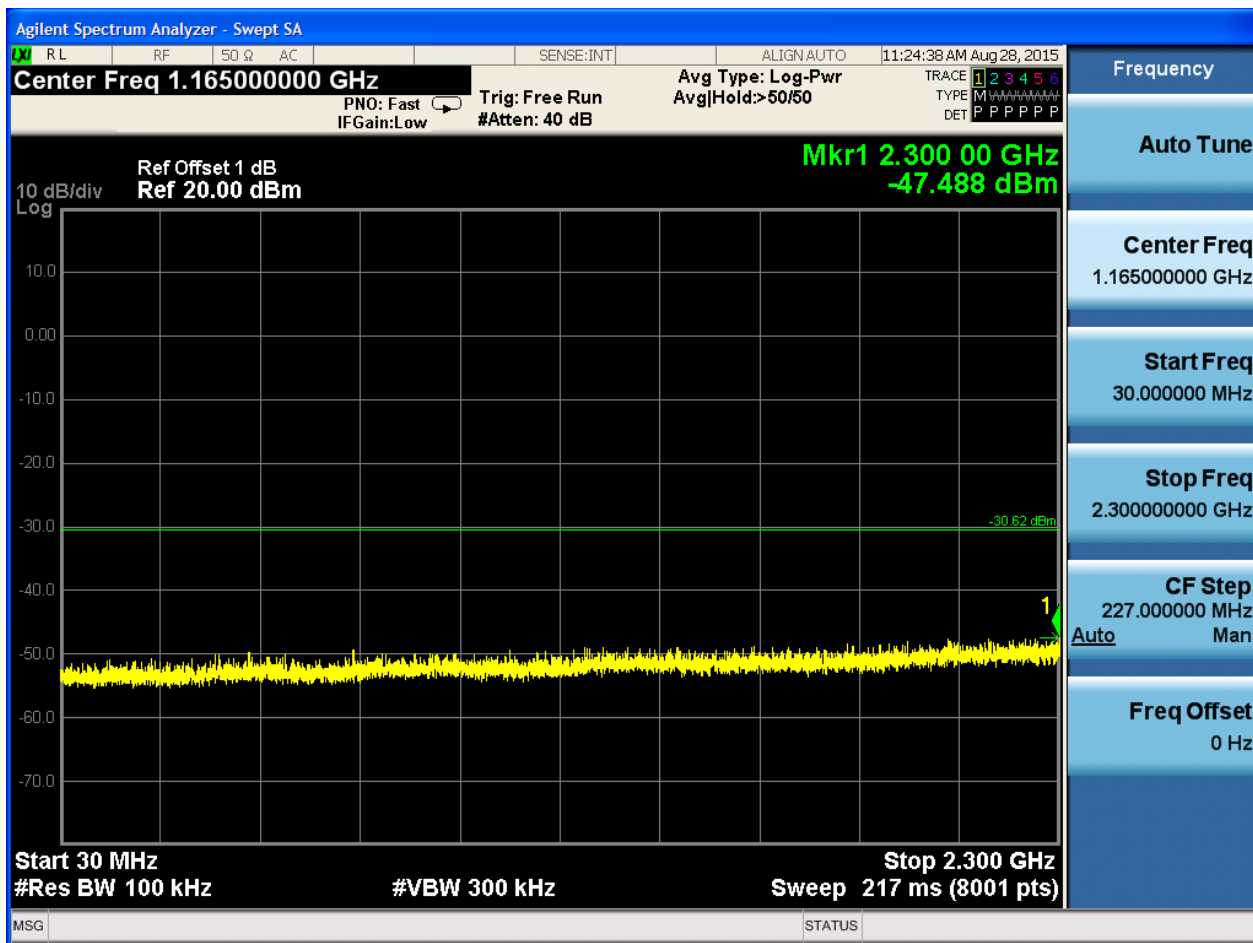


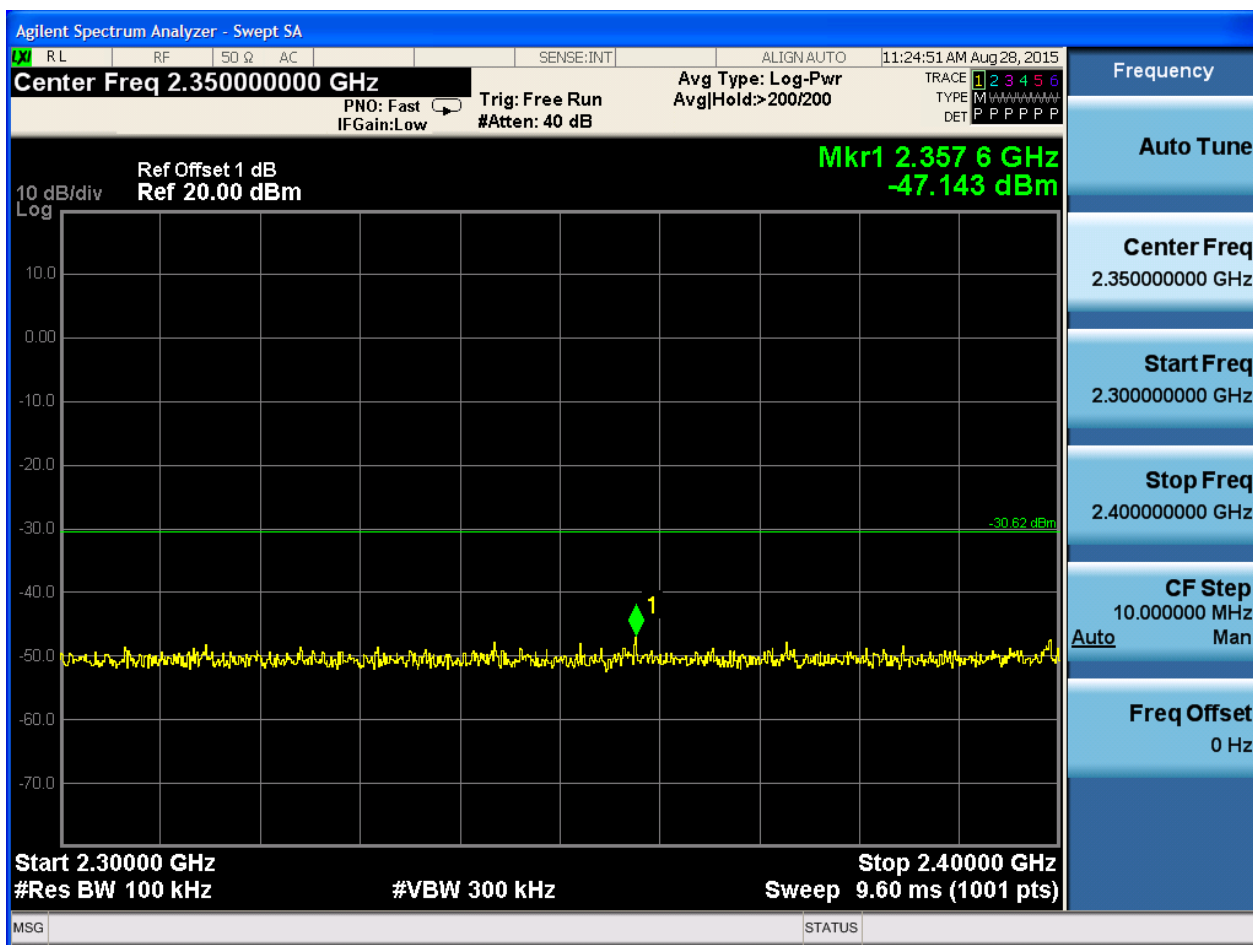


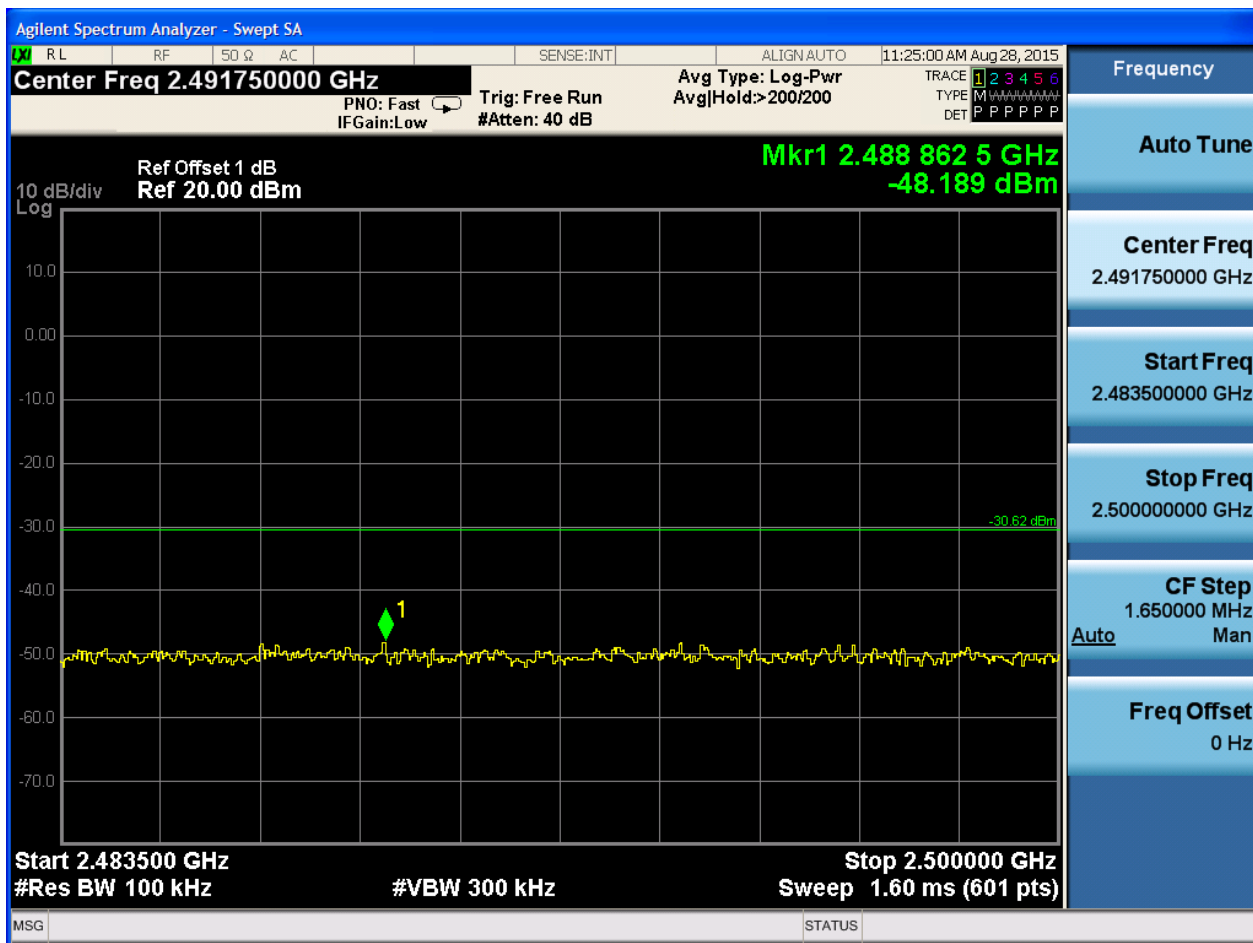
Puw:

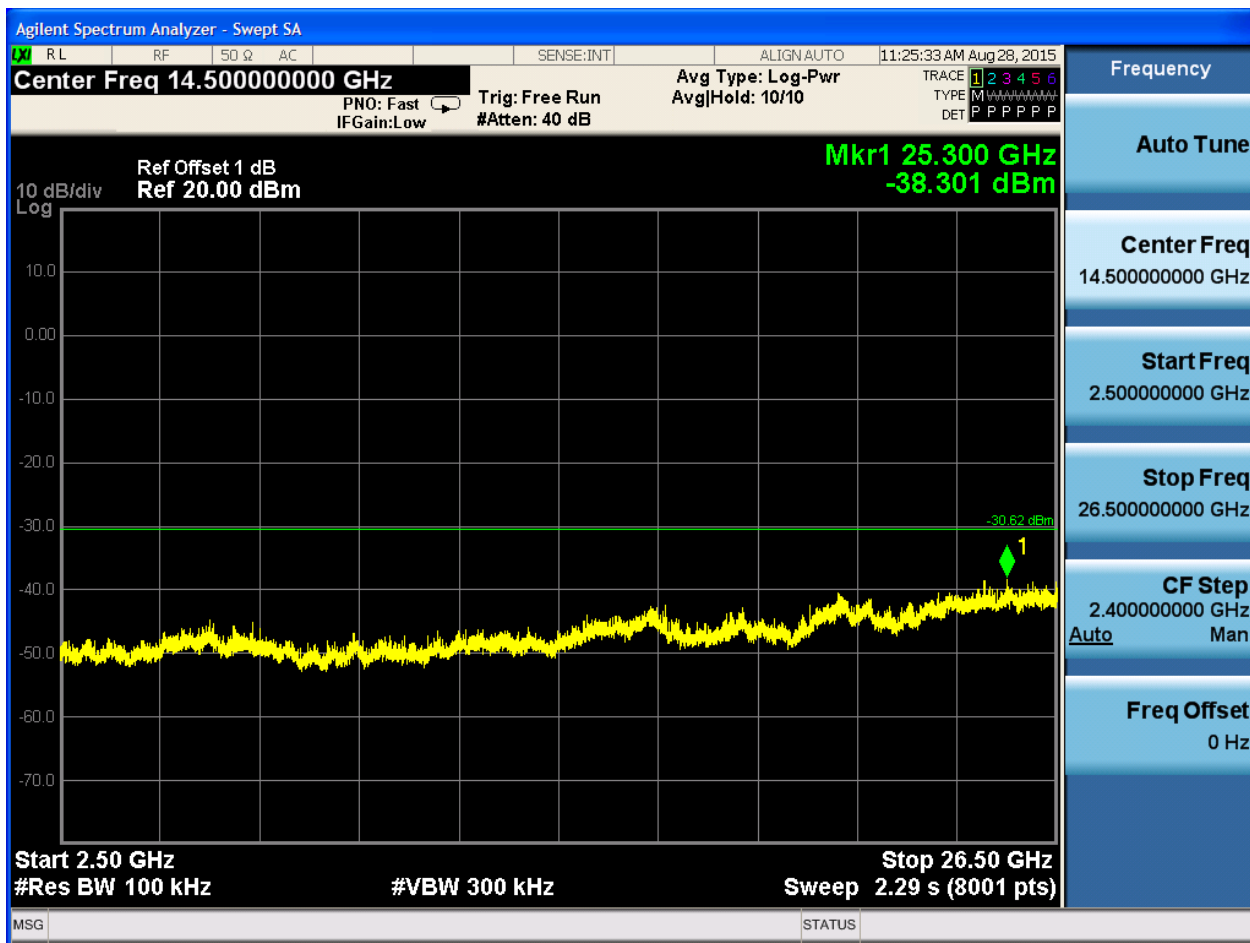








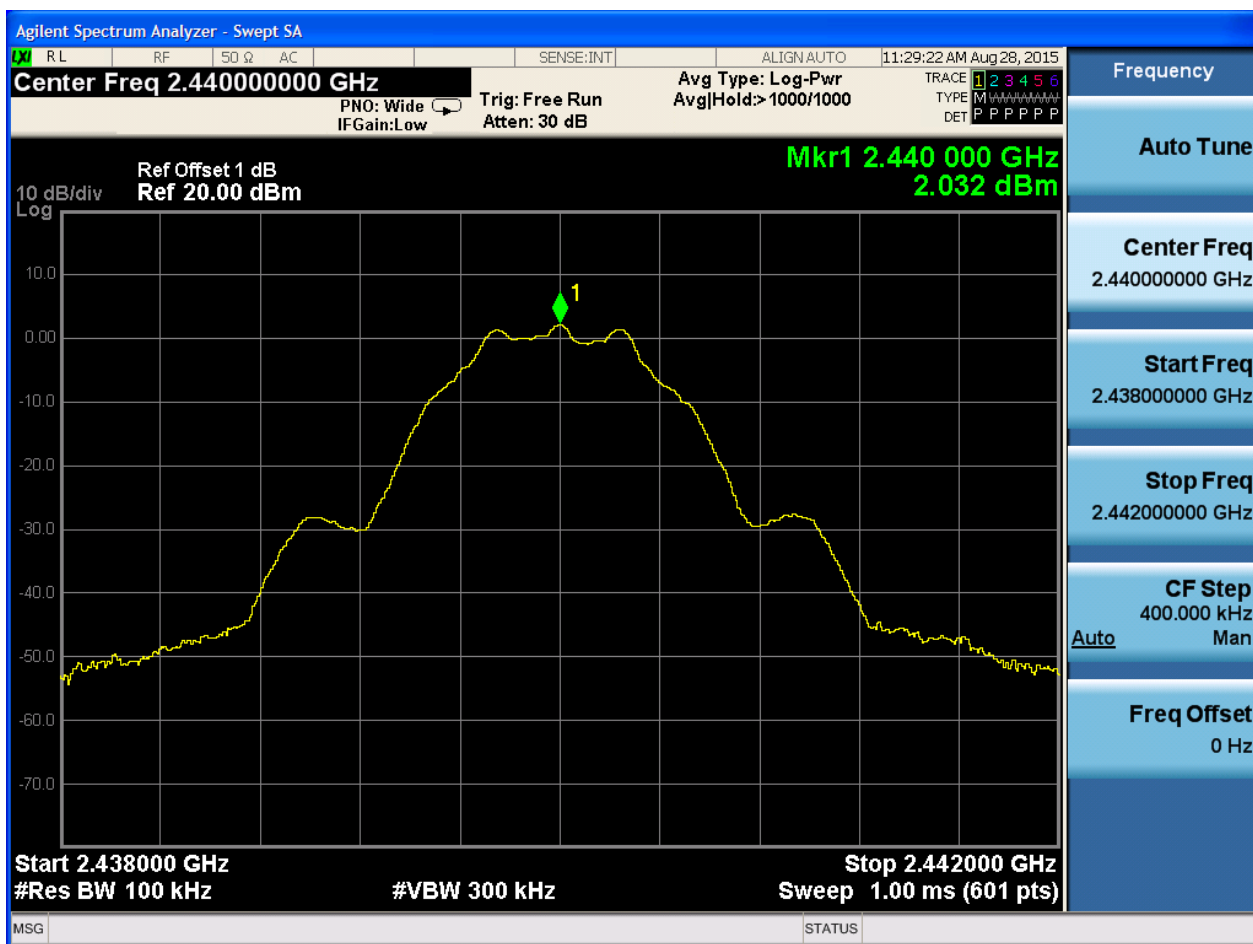






2.3 TM1_Ch19_M

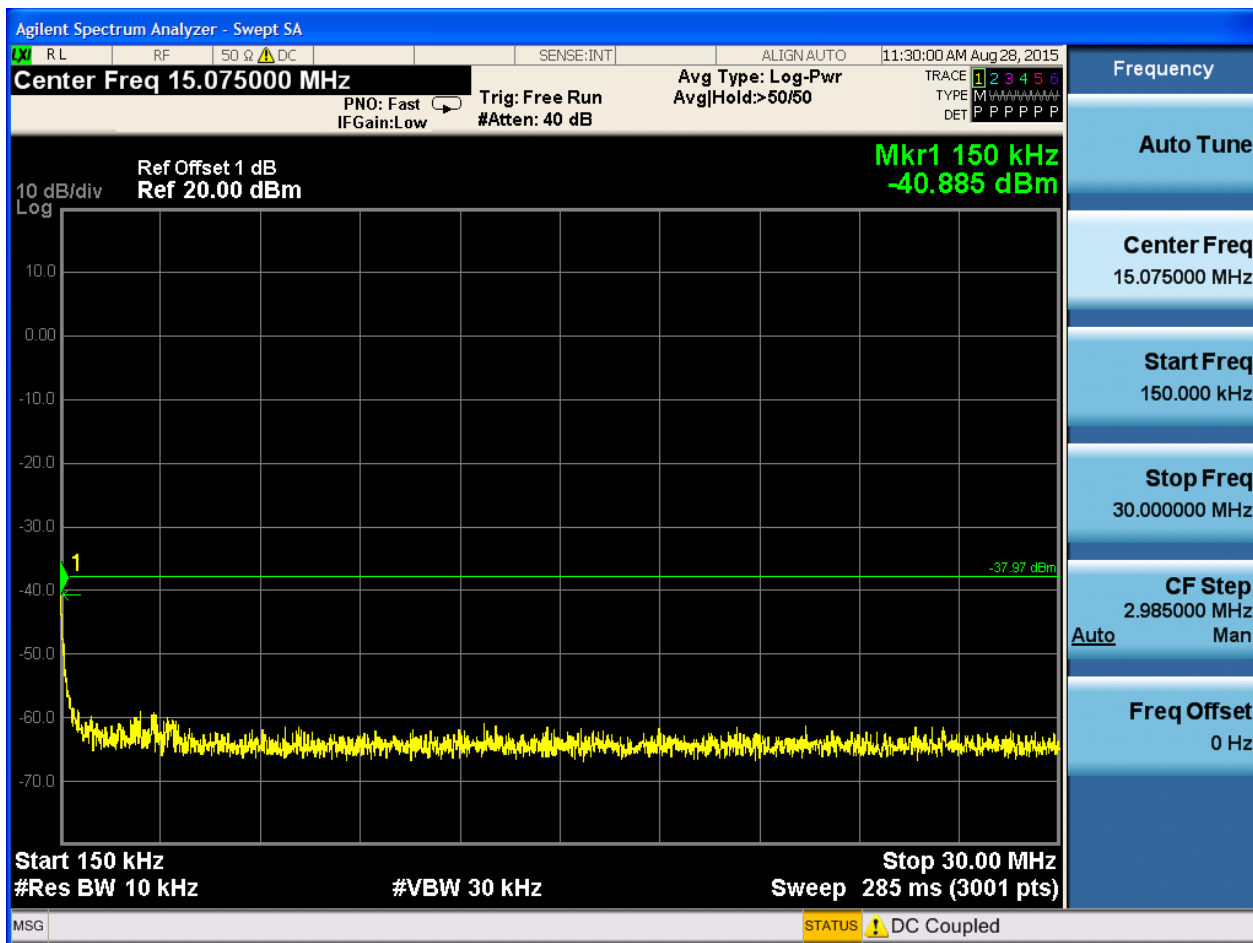
Pref:

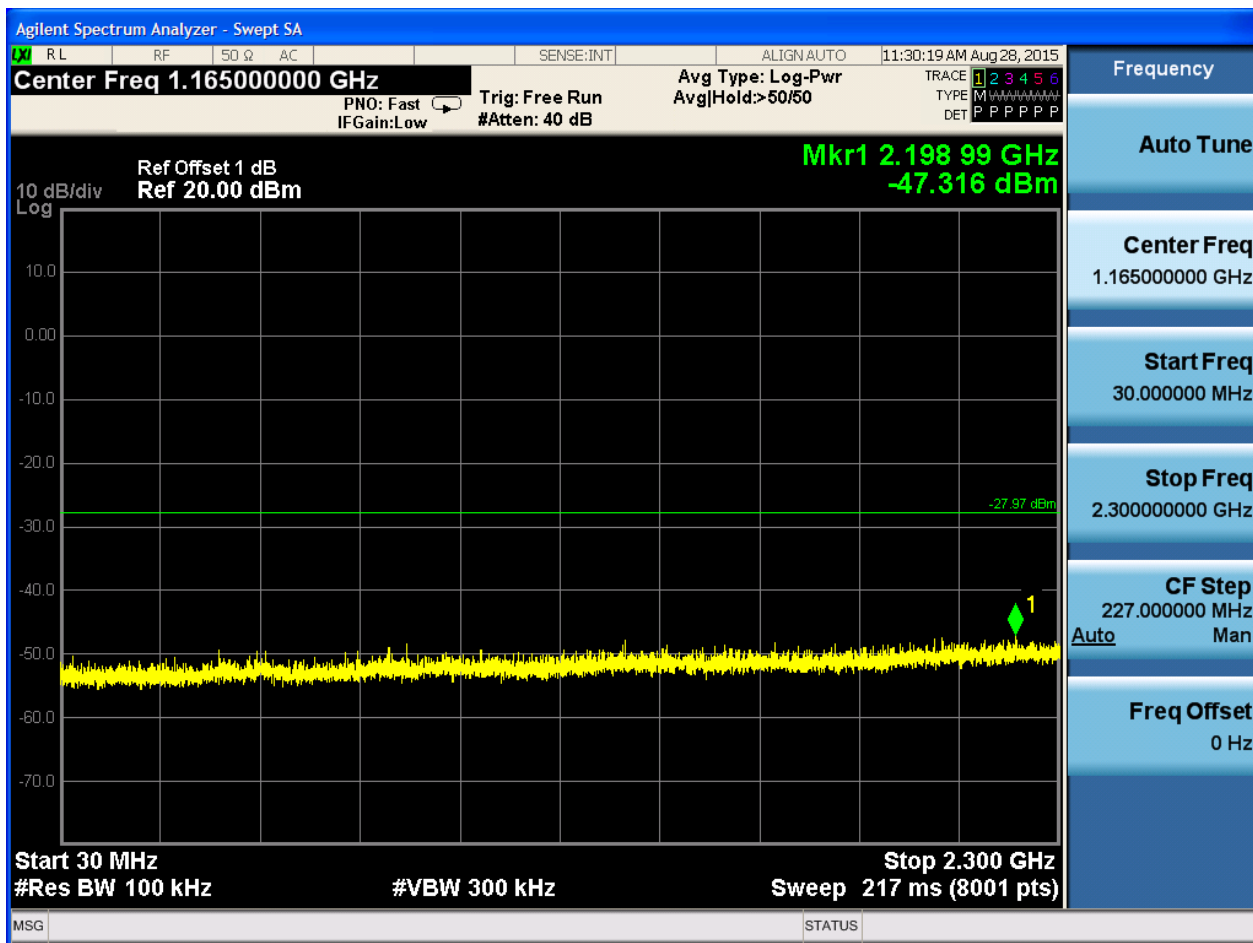


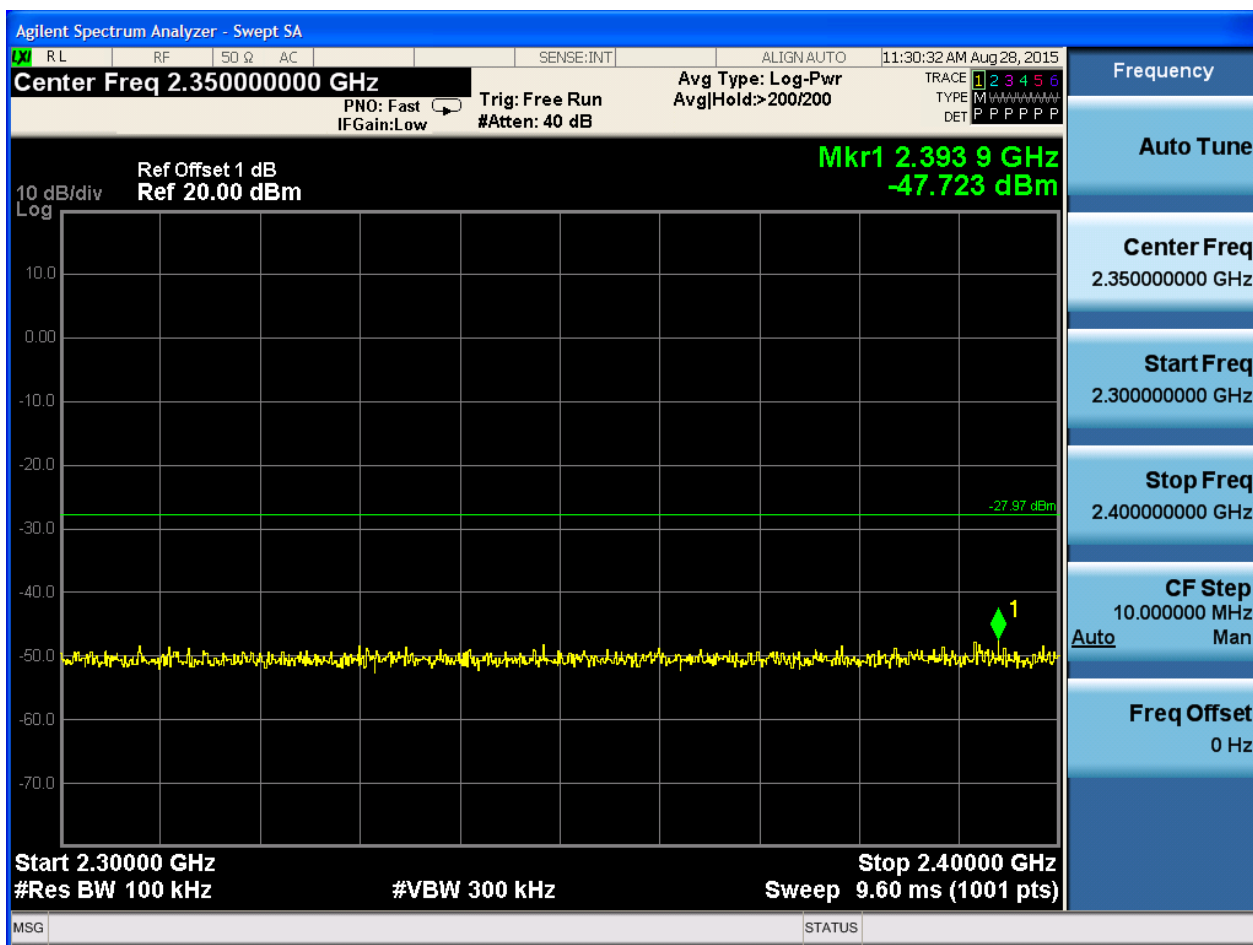


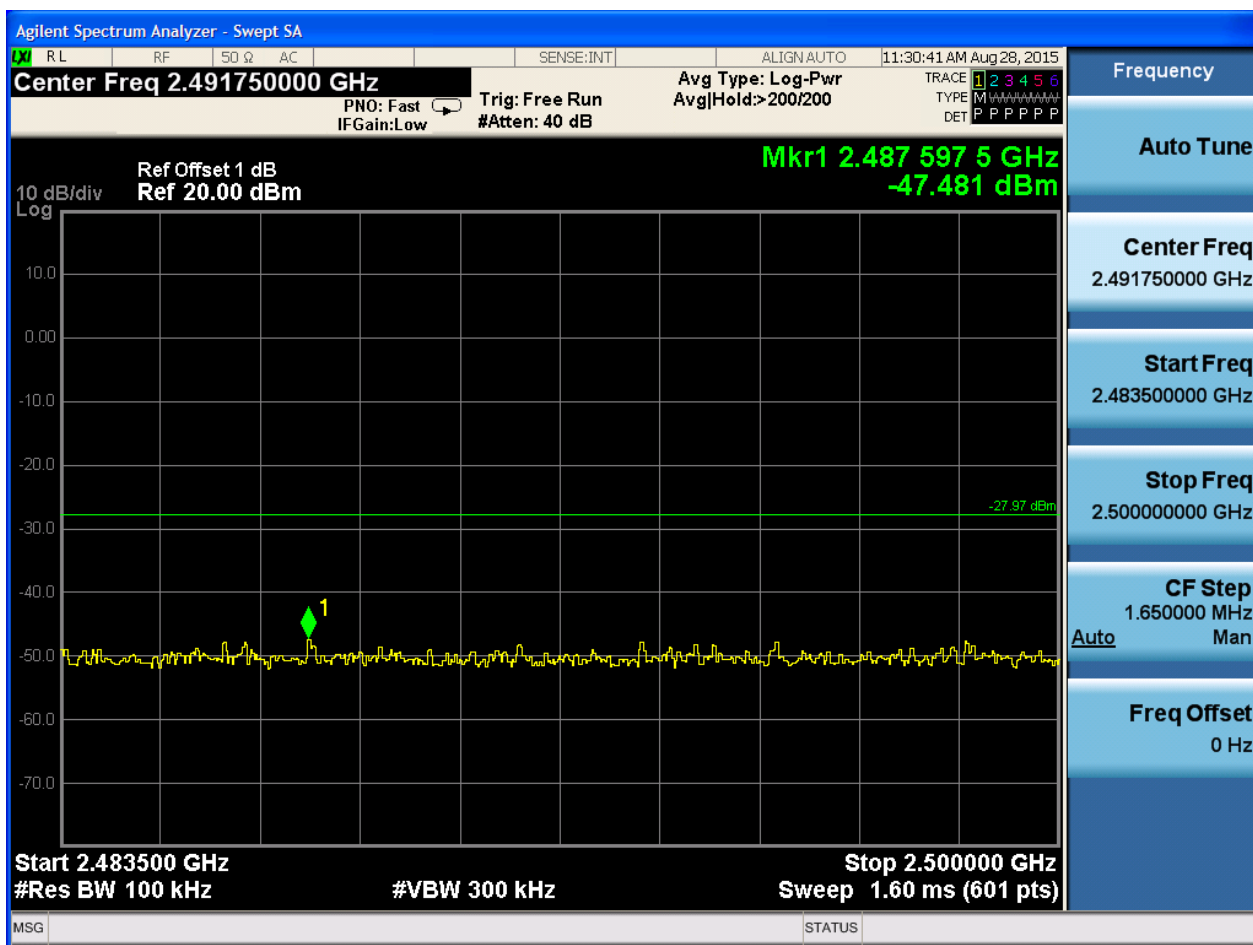
PuW:









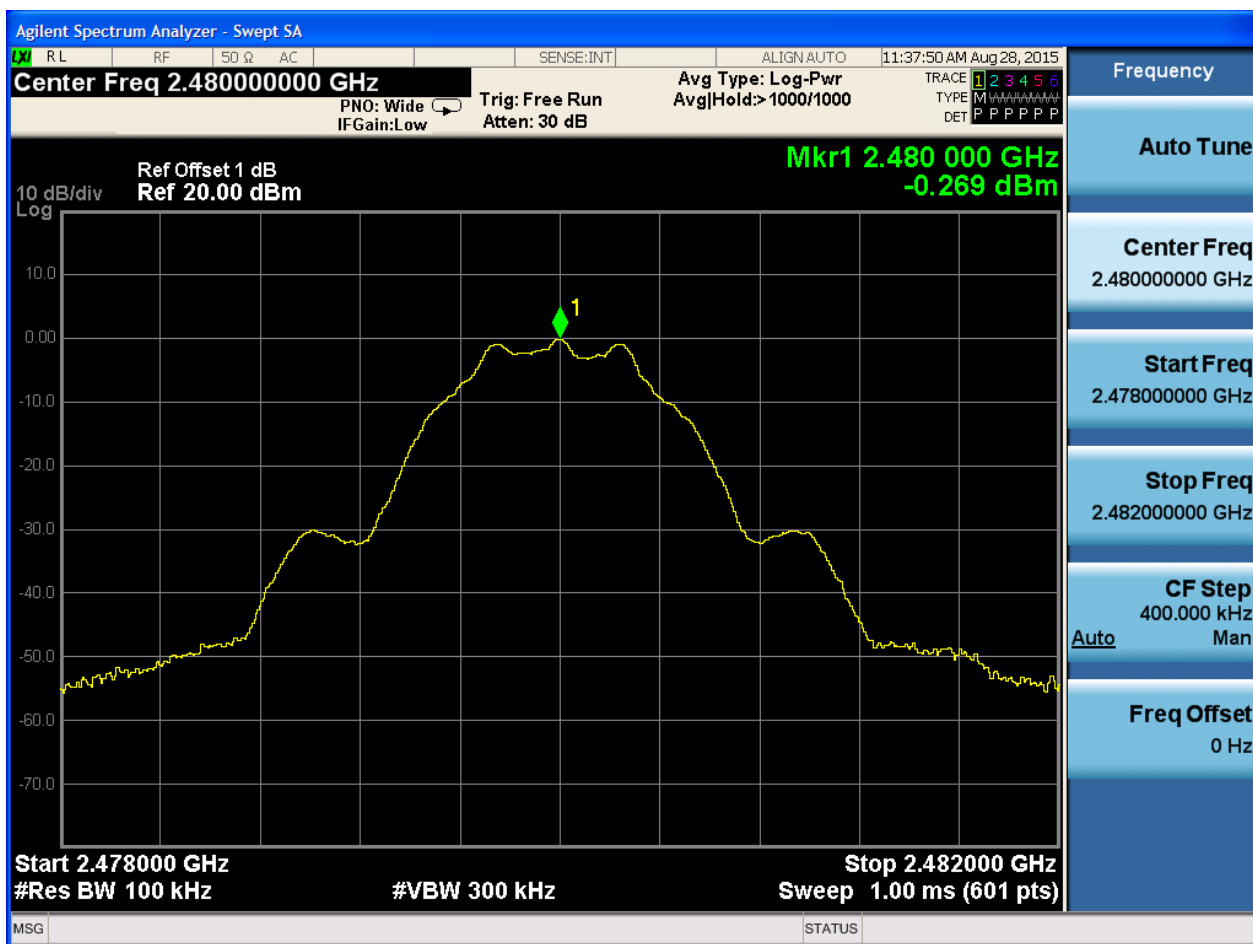






2.5 TM1_Ch19_H

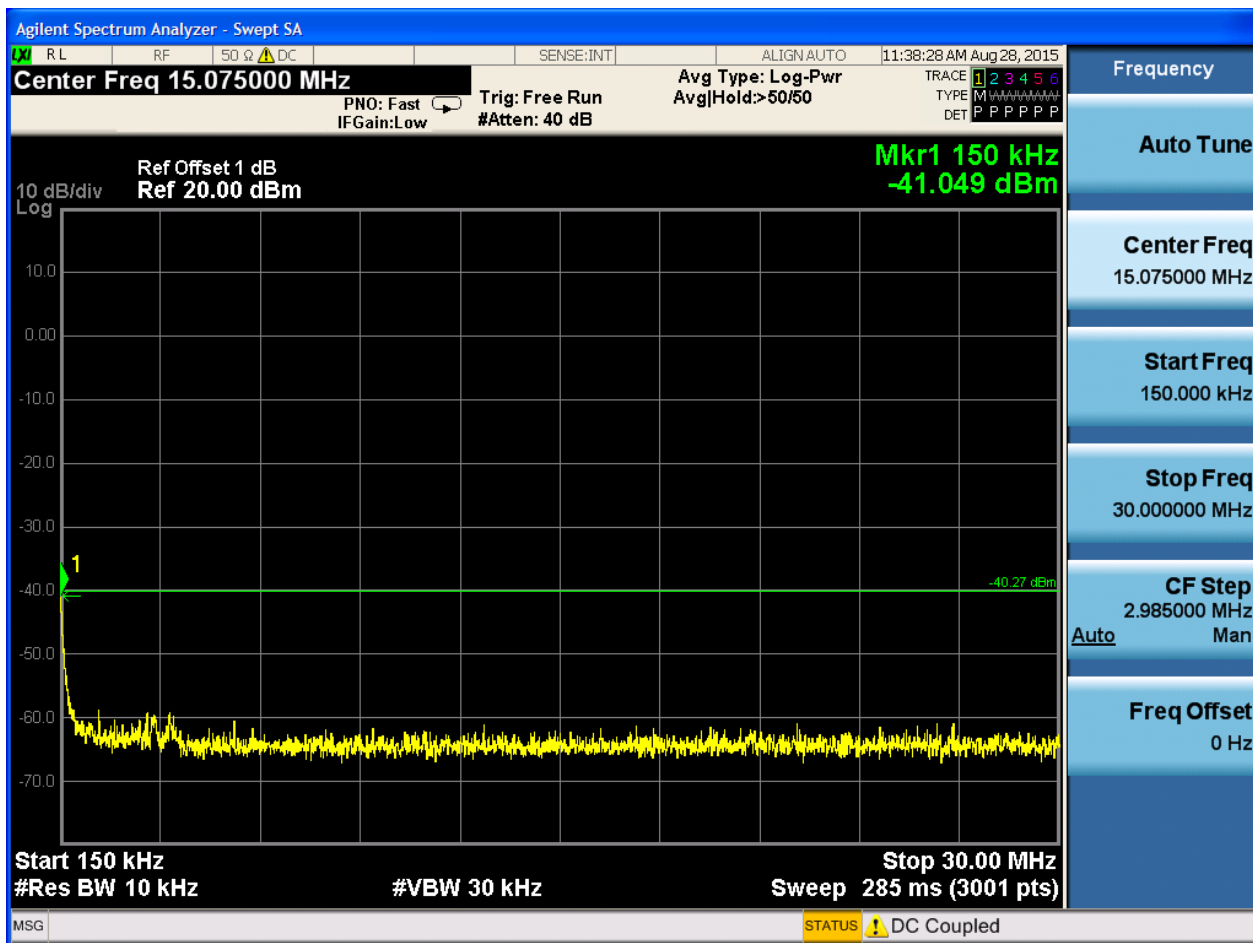
Pref:

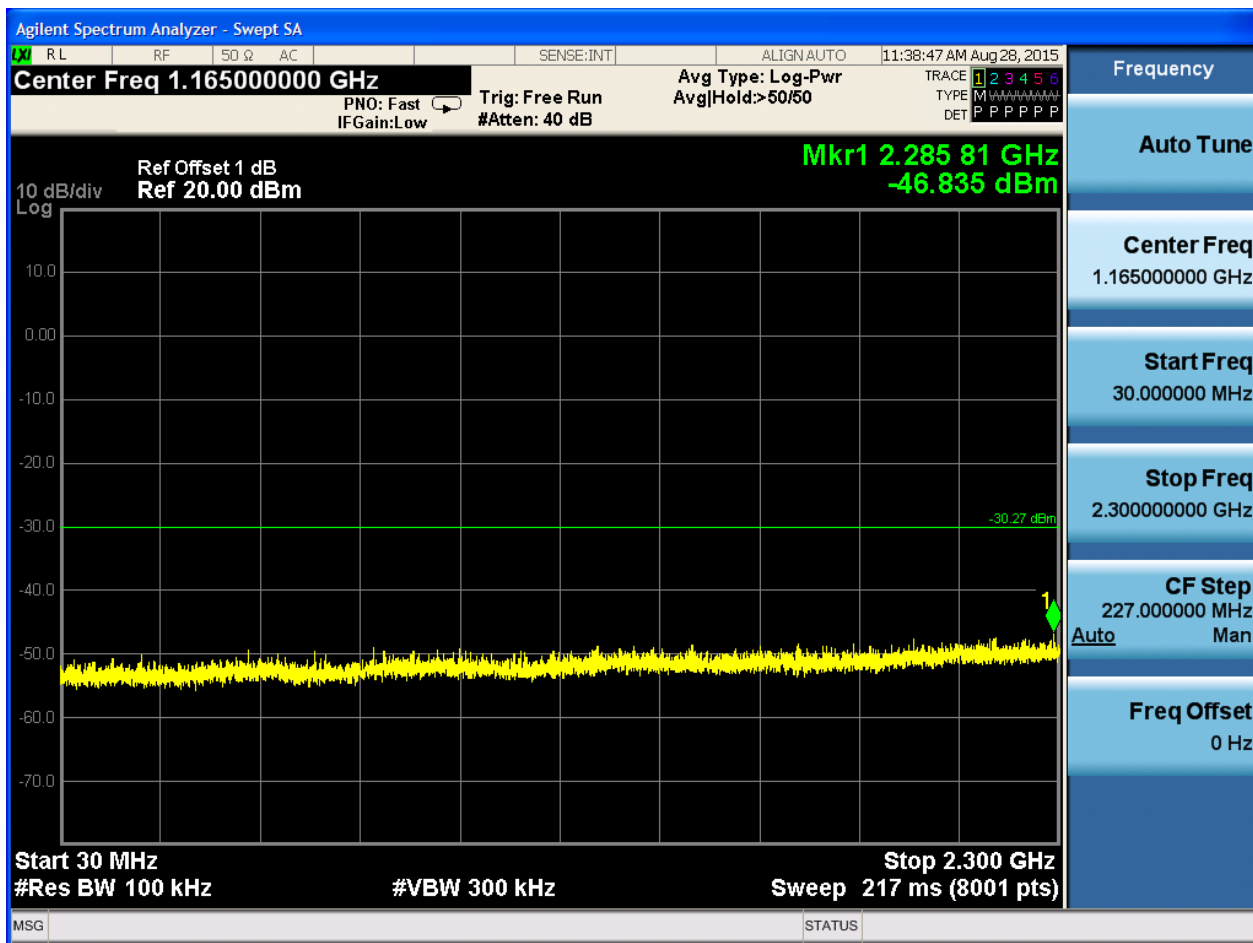


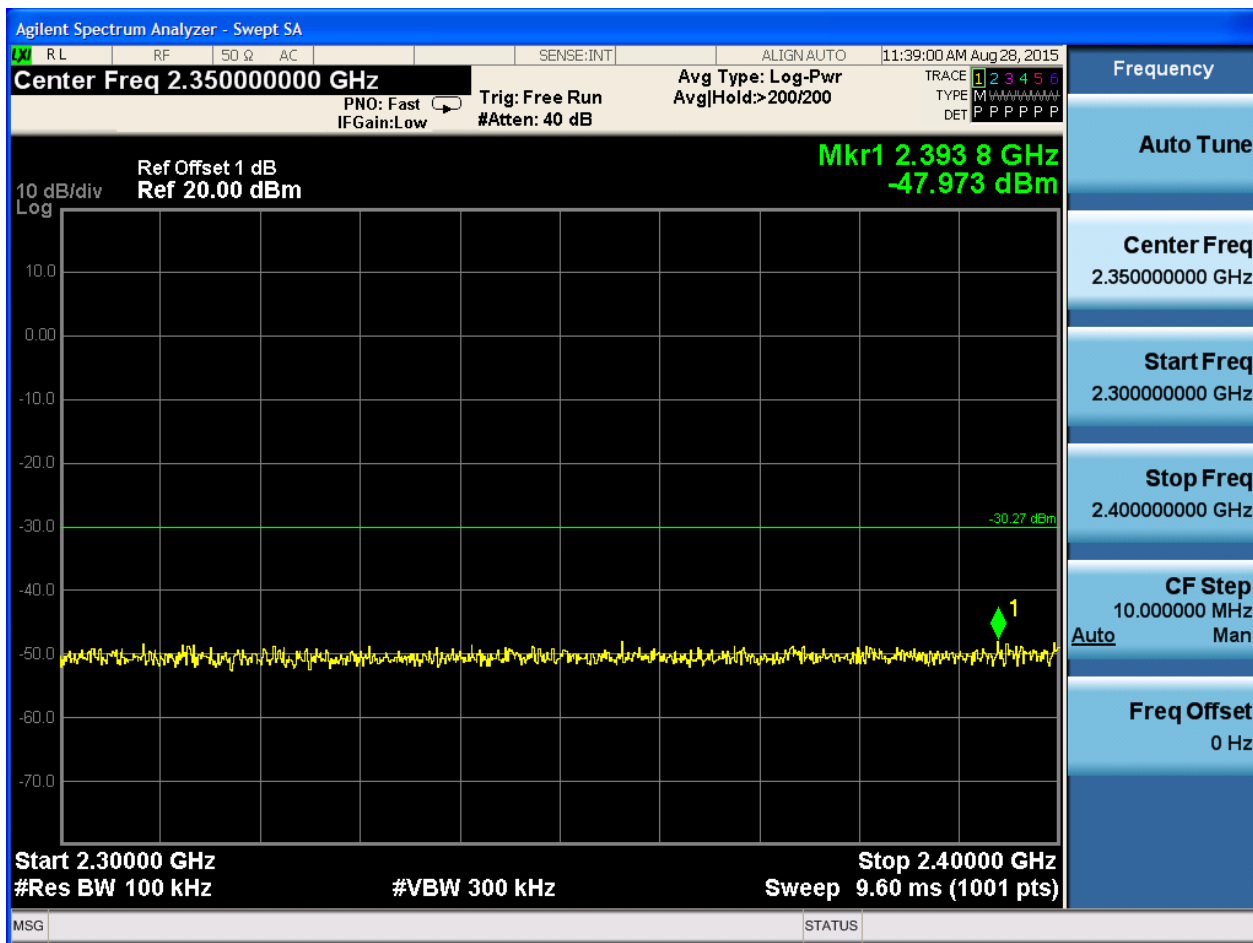


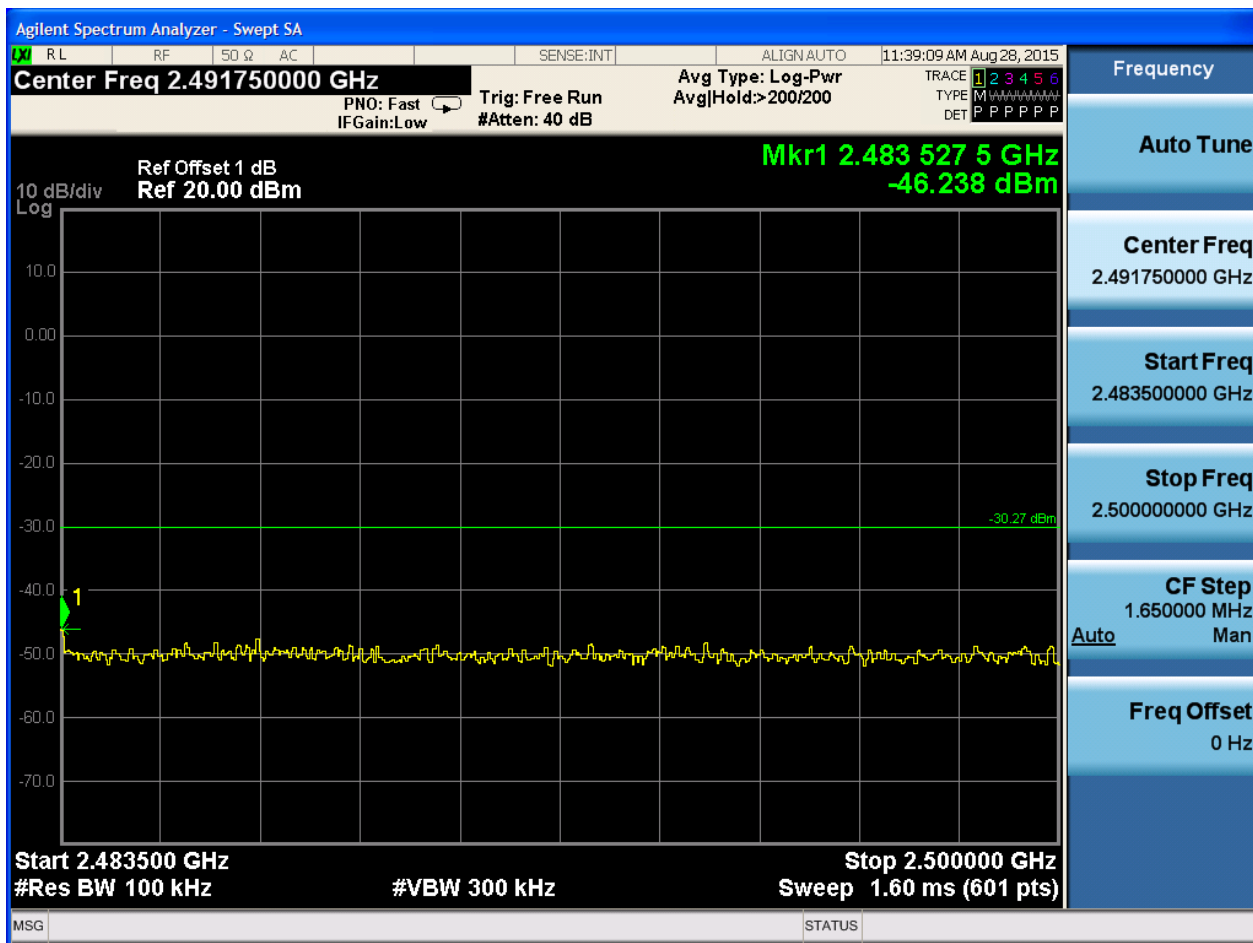
PuW:

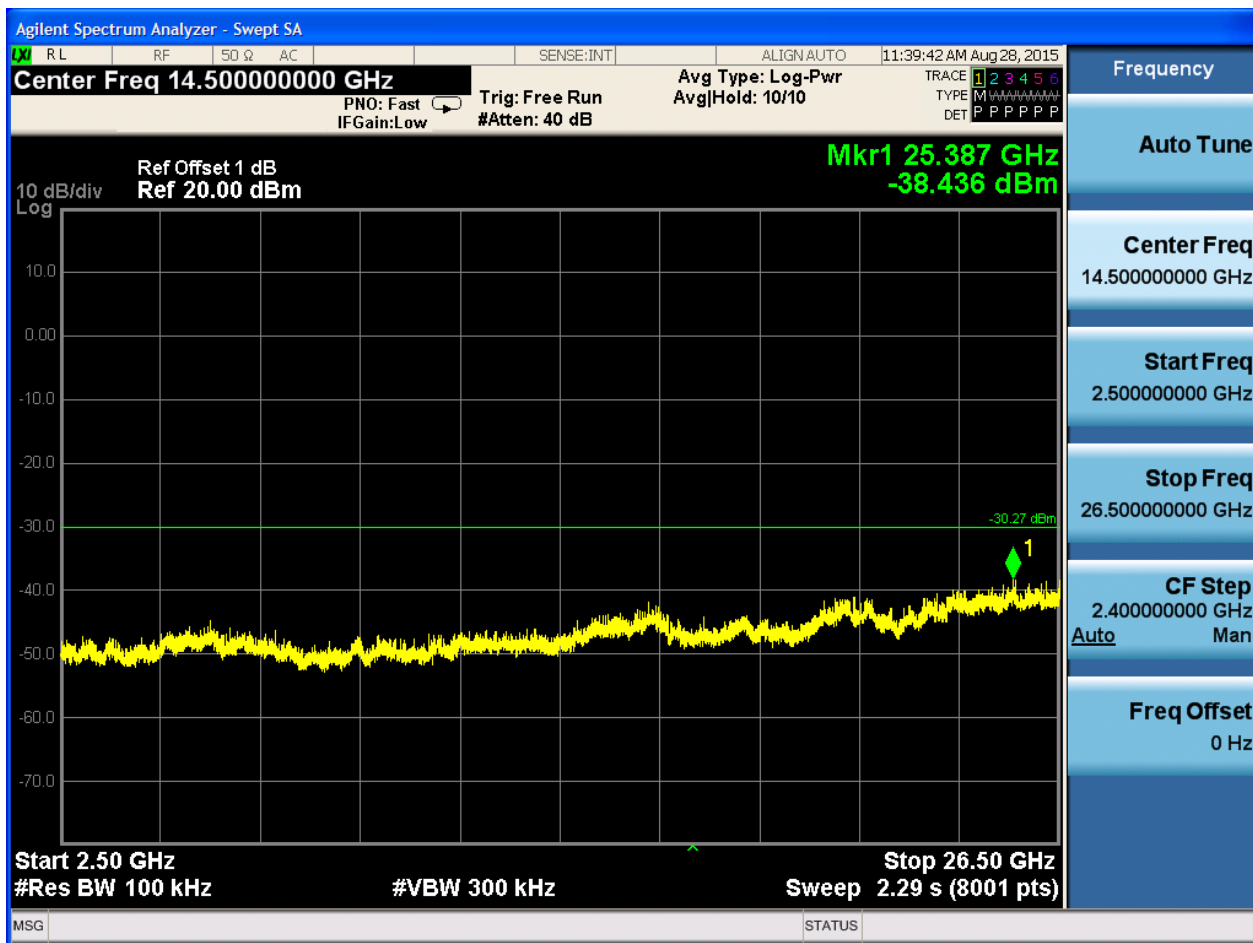












Appendix H: Radiated Spurious Emission & Spurious in Restricted Band

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

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

The simultaneous transmission has been considered

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

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

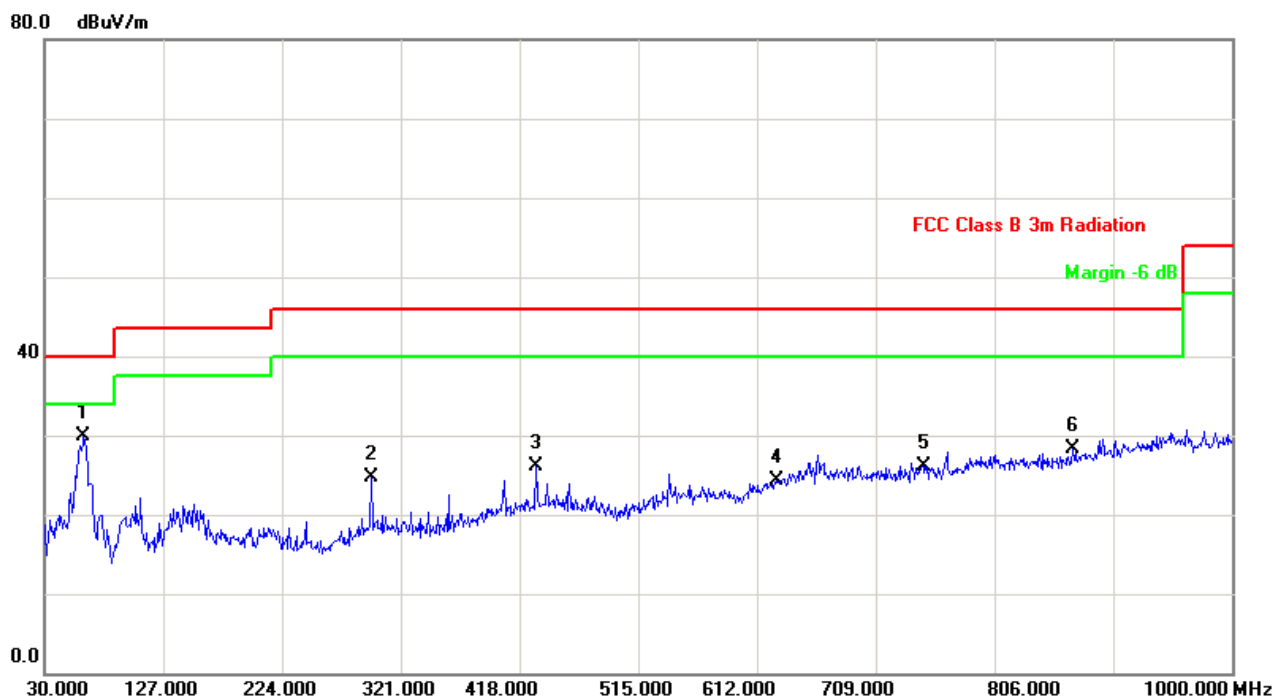
NOTE1: No peak found in the Test Range of “9 kHz to 30MHz”

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).

Vertical



NO.MK.	Frequency MHz	Reading Level dBμV	Correct Factor dB	Measurement dBμV/m	Limit dBμV/m	Margin dB	Detector
1	62.0100	43.67	-13.83	29.84	40.00	-10.16	QP
2	296.7500	34.30	-9.66	24.64	46.00	-21.36	QP
3	431.5800	32.43	-6.40	26.03	46.00	-19.97	QP
4	627.5200	27.33	-2.98	24.35	46.00	-21.65	QP
5	747.8000	27.51	-1.41	26.10	46.00	-19.90	QP
6	870.0200	27.50	0.74	28.24	46.00	-17.76	QP



Part 3: Testing Range of “18 GHz to 26.5 GHz”

NOTE: No peak found in the Test Range of “18 GHz to 26.5GHz”

Part 4: Testing Range of “2.3GHz to 2.5GHz”

Note 1: The testing range of “2.3 GHz to 2.5 GHz” is for checking radiated emissions located in restricted bands near the EUT operating bands.

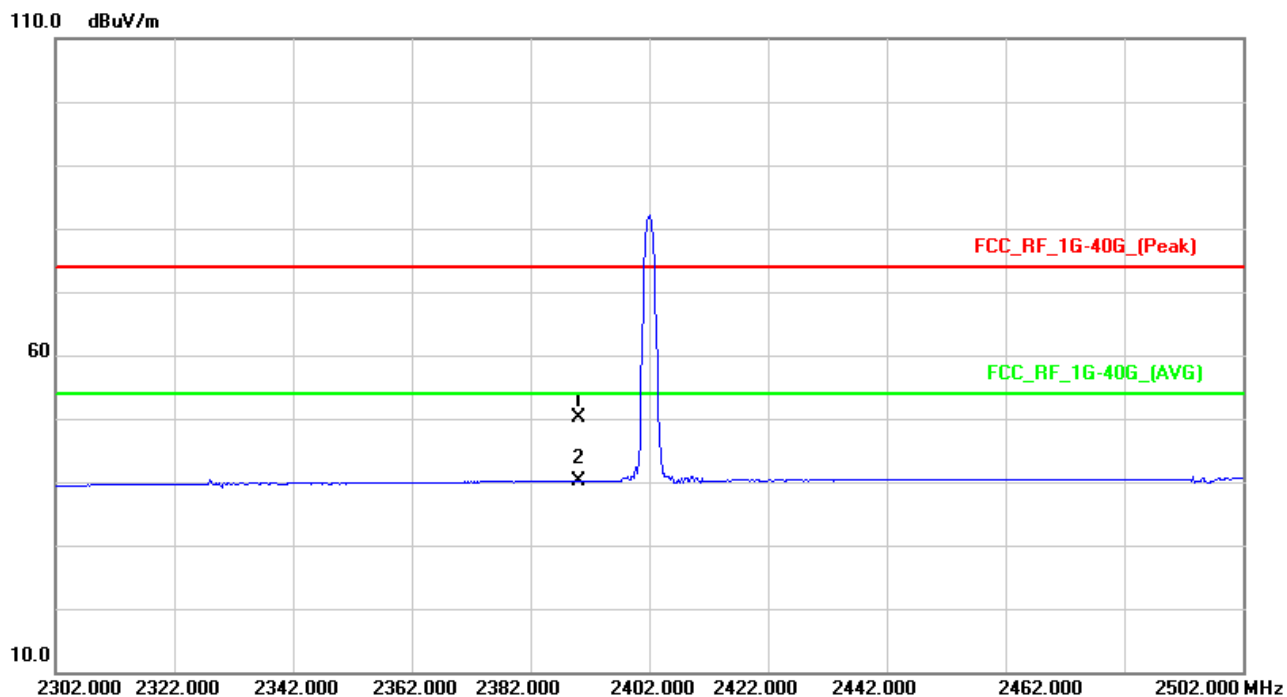
Note 2: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB μ V/m) and Average Limit (54 dB μ V/m).

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

Test Mode:

Test Mode:

Channel 0

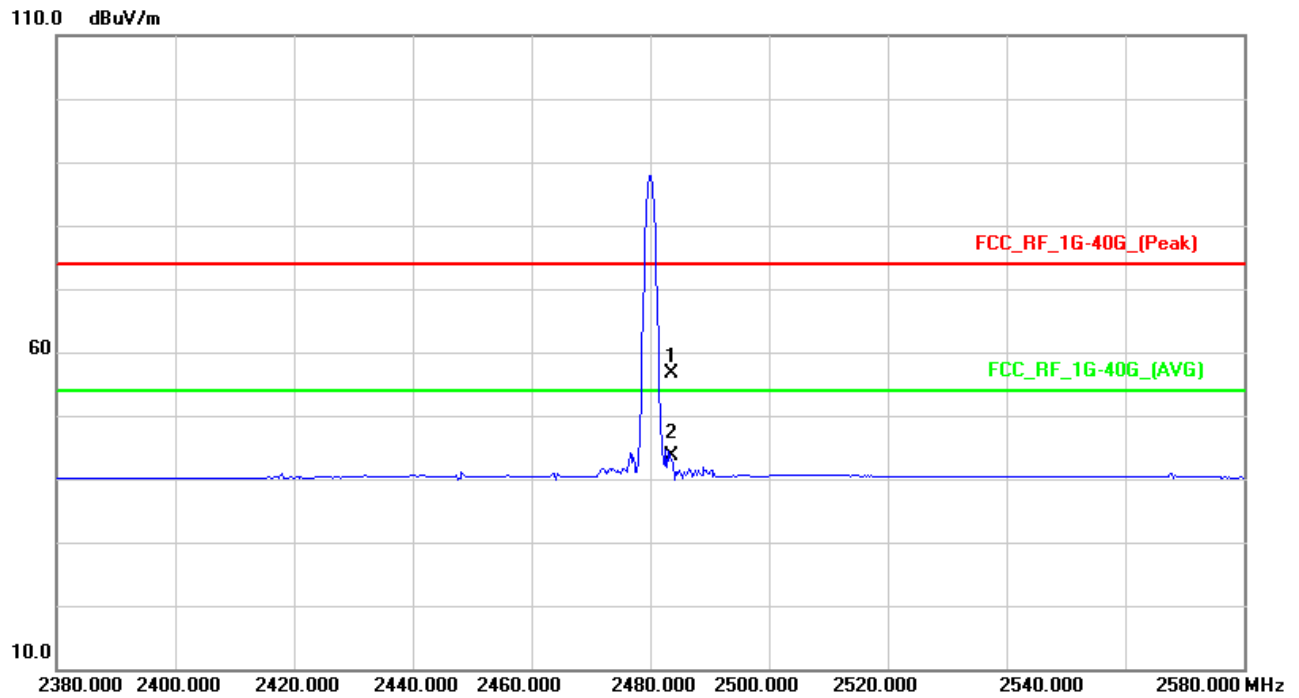


Note: The peak exceeds the limit line is carrier frequency.

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Facto r(CF)(dB)	Measured (FS)(dBuV/m)	Limits (dBuV/m)	Margin (dB)	Note
2390.000	V	14.18	35.88	50.06	74.00	-23.94	peak
2390.000	V	4.34	35.88	40.22	54.00	-13.78	AVG

7.4.1.2 Channel 78

Horizontal



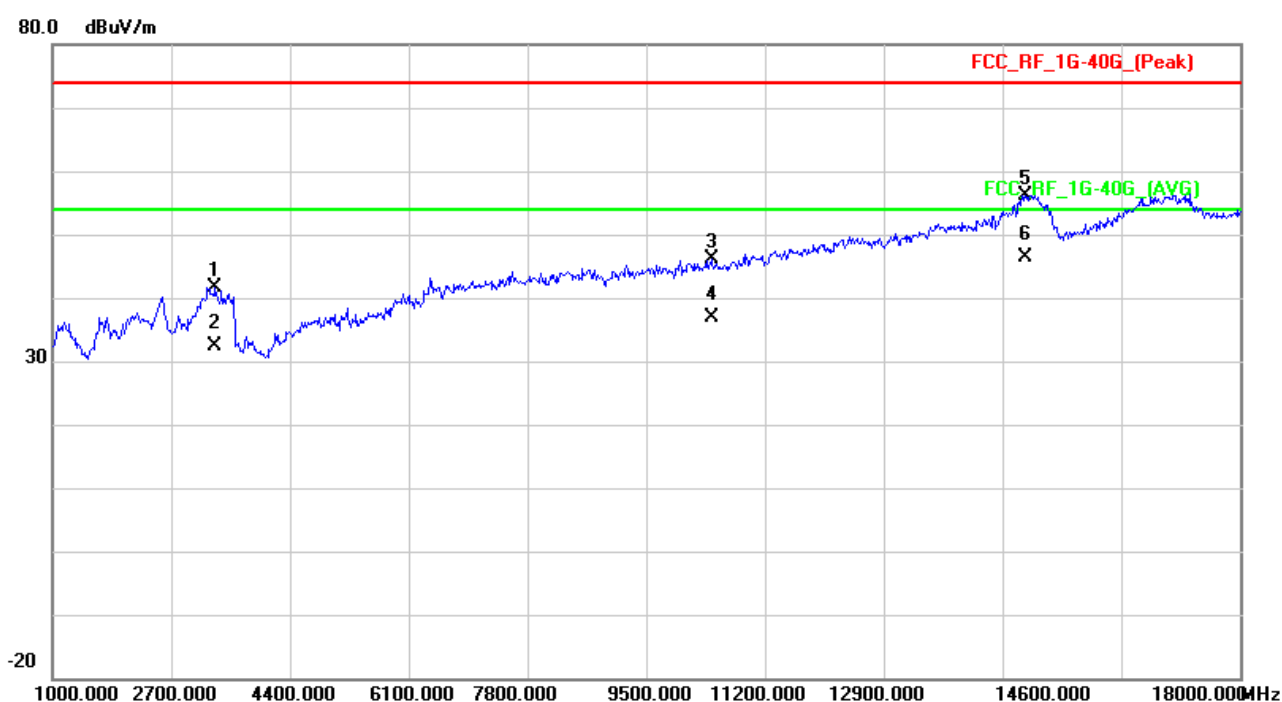
Note: The peak exceeds the limit line is carrier frequency.

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor (CF)(dB)	Measured(FS) (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Note
2483.500	H	20.34	36.39	56.73	74.00	-17.27	peak
2483.500	H	7.25	36.39	43.64	54.00	-10.36	AVG

Part 5: Testing Range of “1 GHz to 18 GHz”

- Note 1: The test results and plot for testing range of “1 GHz to 18 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 testing range of “1 GHz to 18 GHz” is for checking radiated emissions located in restricted bands faraway from the EUT operating bands.
- Note 3: 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).

Horizontal

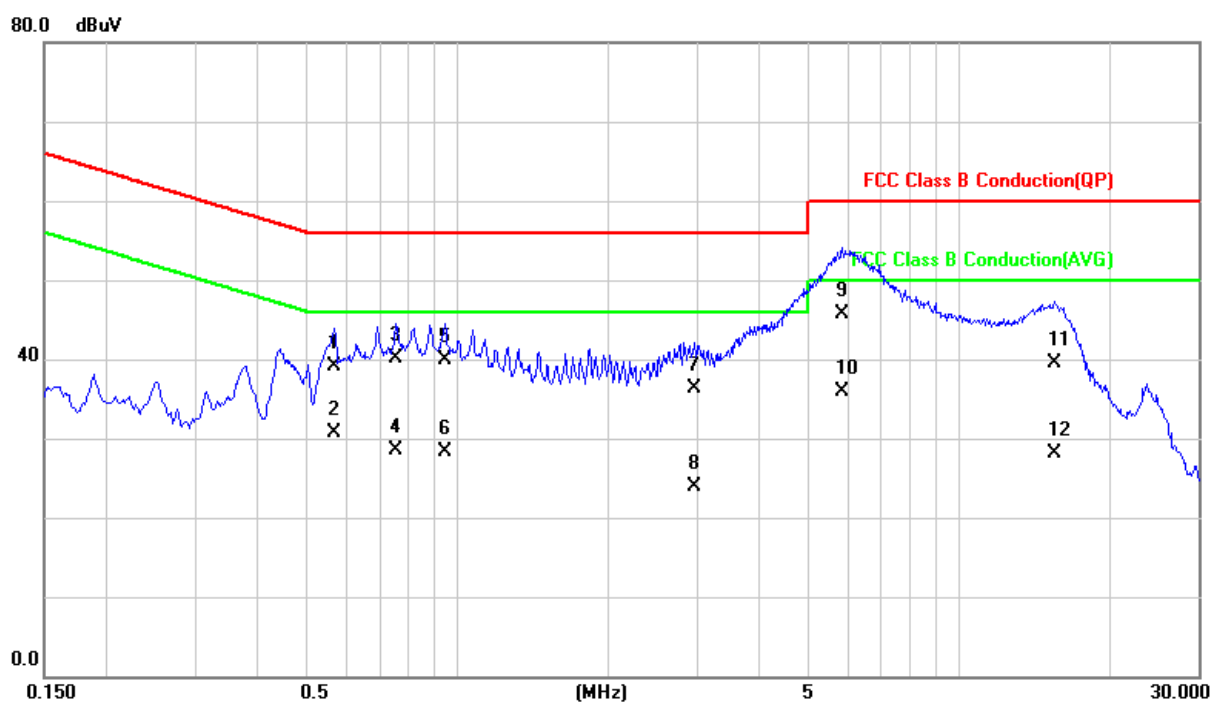


NO.KR.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector
1	3333.250	39.41	2.16	41.57	74.00	-32.43	peak
2	3333.250	30.23	2.16	32.39	54.00	-21.61	AVG
3	10430.75	28.70	17.46	46.16	74.00	-27.84	peak
4	10430.75	19.52	17.46	36.98	54.00	-17.02	AVG
5	14923.00	31.48	24.76	56.24	74.00	-17.76	peak
6	14923.00	21.68	24.76	46.44	54.00	-7.56	AVG

Appendix I: Conducted Emission at Power Port

Note: RBW =9 kHz, VBW = 30 kHz

Channel 39



NO.KR.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector
1	0.5685	29.30	9.84	39.14	56.00	-16.86	QP
2	0.5685	20.90	9.84	30.74	46.00	-15.26	AVG
3	0.7552	30.10	9.92	40.02	56.00	-15.98	QP
4	0.7552	18.60	9.92	28.52	46.00	-17.48	AVG
5	0.9442	29.90	9.96	39.86	56.00	-16.14	QP
6	0.9442	18.40	9.96	28.36	46.00	-17.64	AVG
7	2.9625	26.40	9.82	36.22	56.00	-19.78	QP
8	2.9625	14.10	9.82	23.92	46.00	-22.08	AVG
9	5.8605	36.30	9.38	45.68	60.00	-14.32	QP
10	5.8605	26.60	9.38	35.98	50.00	-14.02	AVG
11	15.5265	29.30	10.29	39.59	60.00	-20.41	QP
12	15.5265	17.90	10.29	28.19	50.00	-21.81	AVG

Note: Level= Reading level+ Transd (cable loss + correction factor).The reading level is used to calculate by software which is not shown in the shee