



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]	DTS6dBBW[MHz]	Verdict
TM1_DH5_Ch0	L	2402	679	pass
TM1_DH5_Ch19	M	2440	678	pass
TM1_DH5_Ch39	H	2480	683	pass



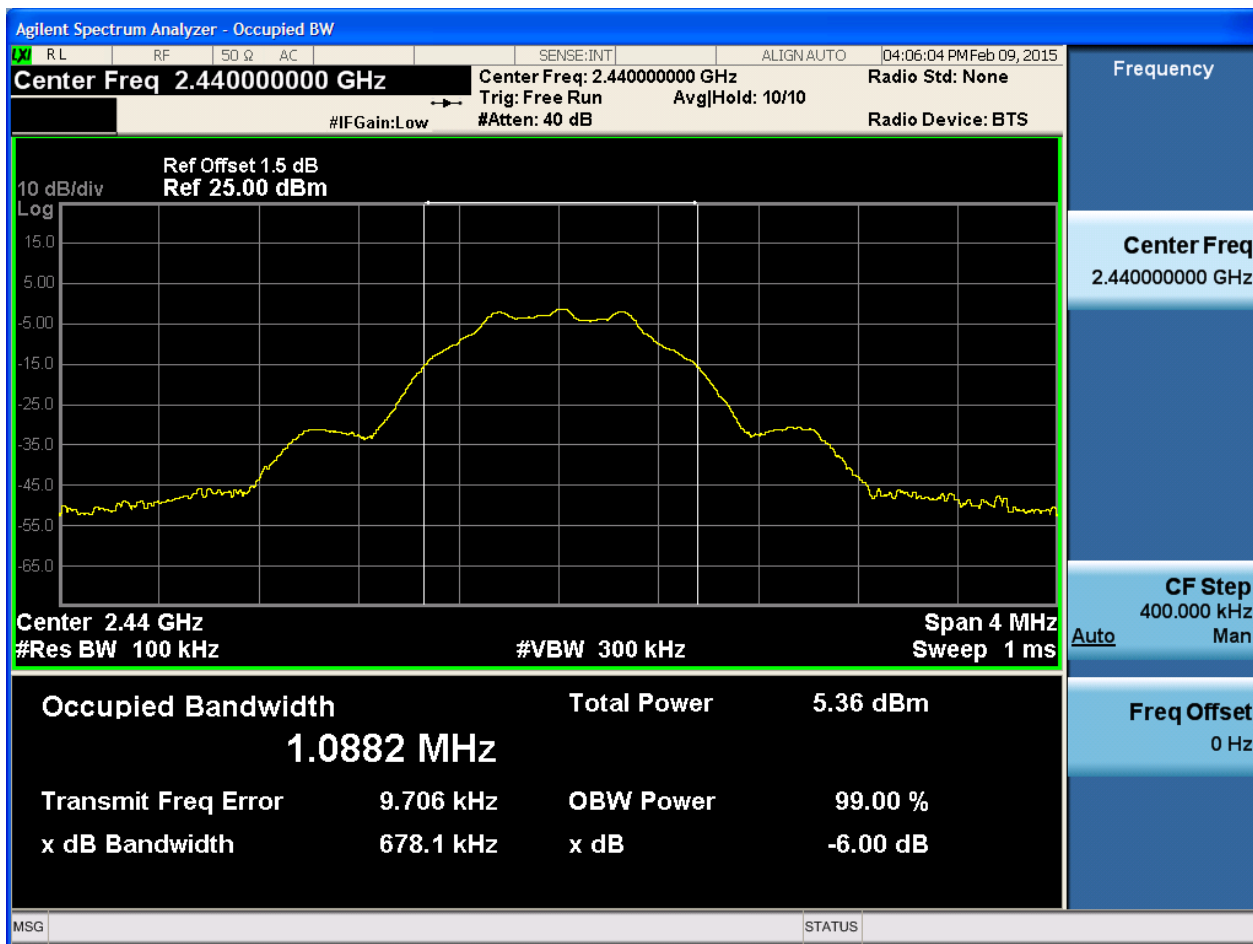
Part II - Test Plots

2.1 TM1_DH5_Ch0_L



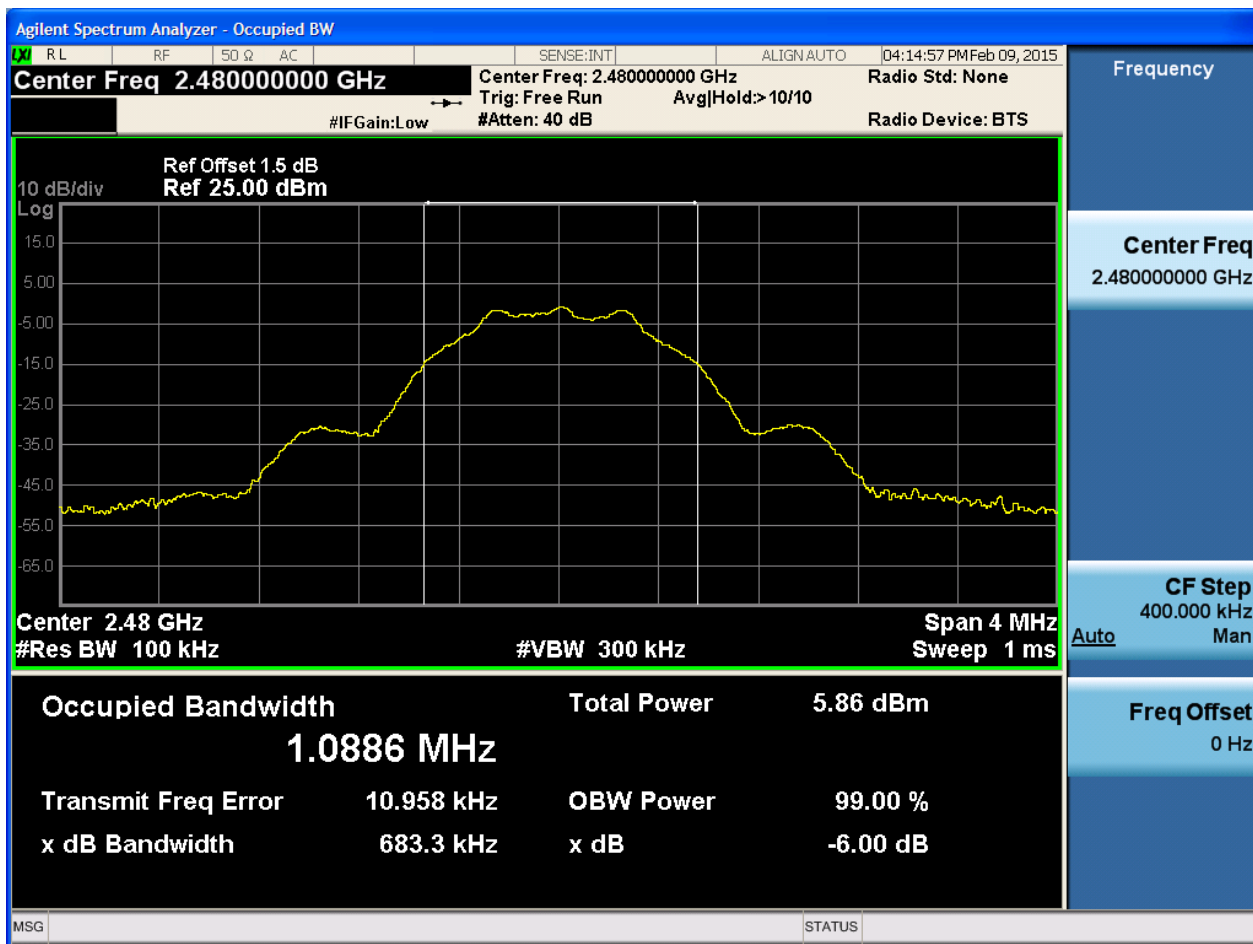


2.2 TM1_DH5_Ch19_M





2.3 TM1_DH5_Ch39_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.

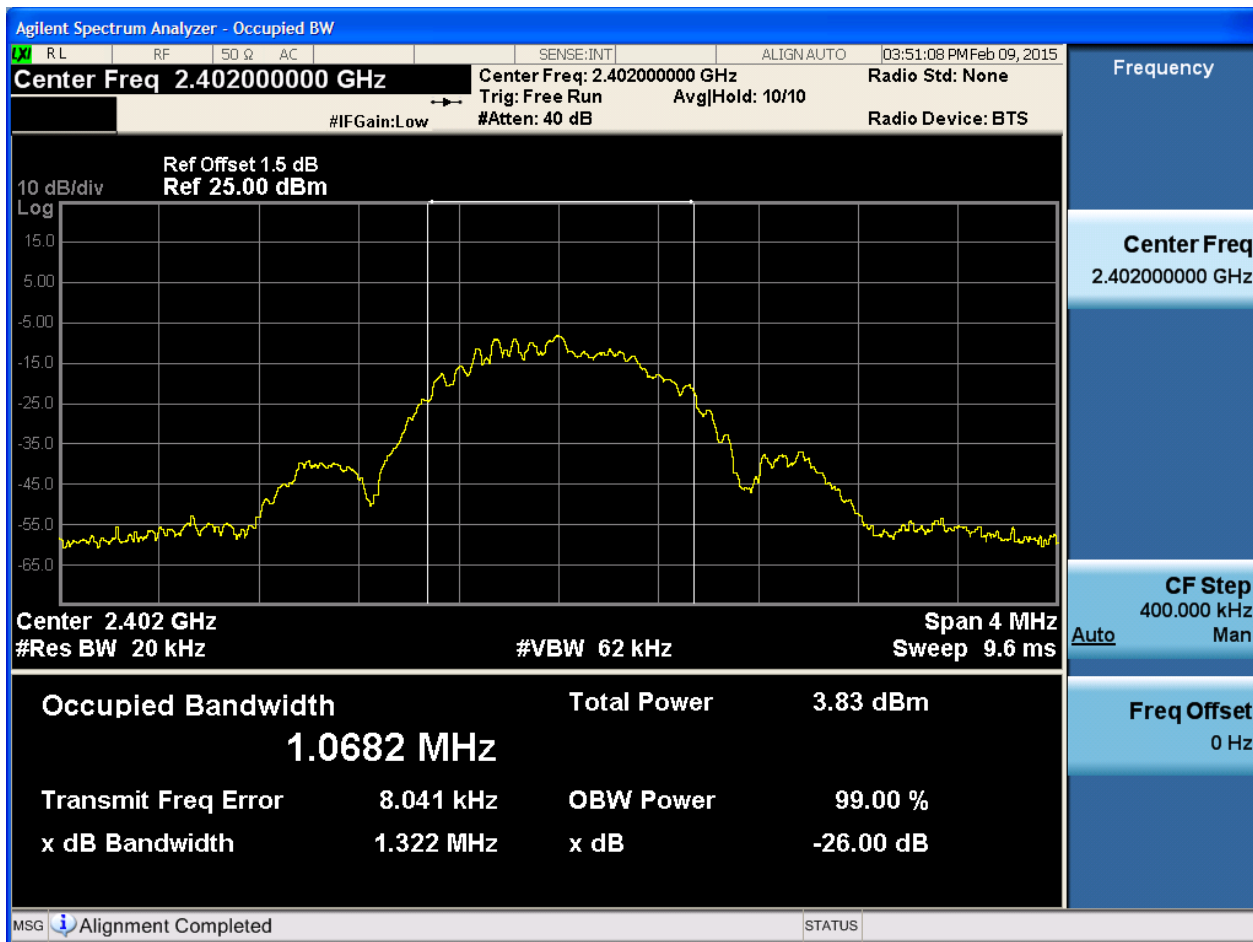
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Occupied Bandwidth [MHz]	Verdict
TM1_DH5_Ch0	L	2402	1.07	pass
TM1_DH5_Ch19	M	2440	1.07	pass
TM1_DH5_Ch39	H	2480	1.07	pass



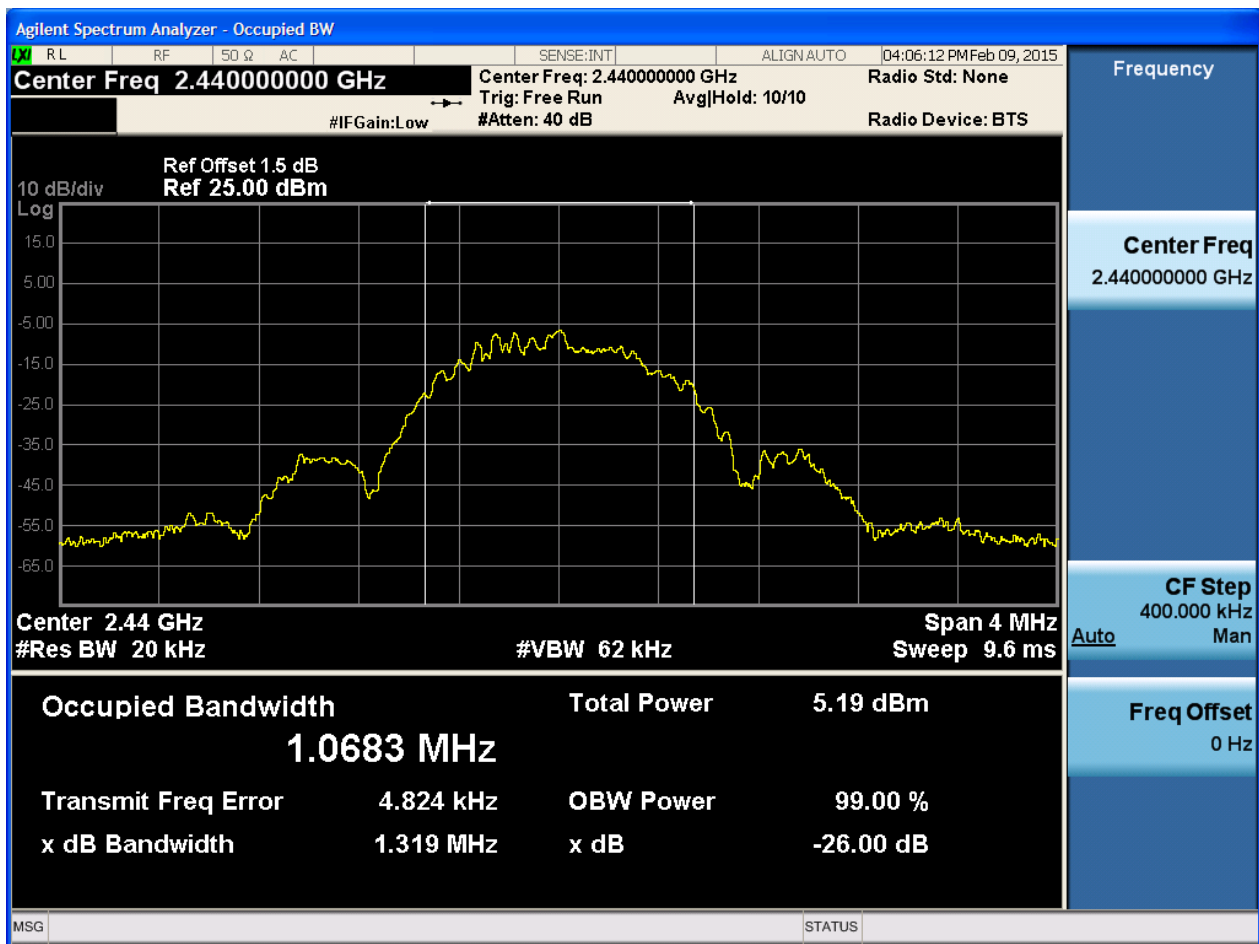
Part II - Test Plots

2.1 TM1_DH5_Ch0_L





2.1 TM1_DH5_Ch19_M





2.1 TM1_DH5_Ch39_H





Appendix C: Maximum Conducted Average Output Power

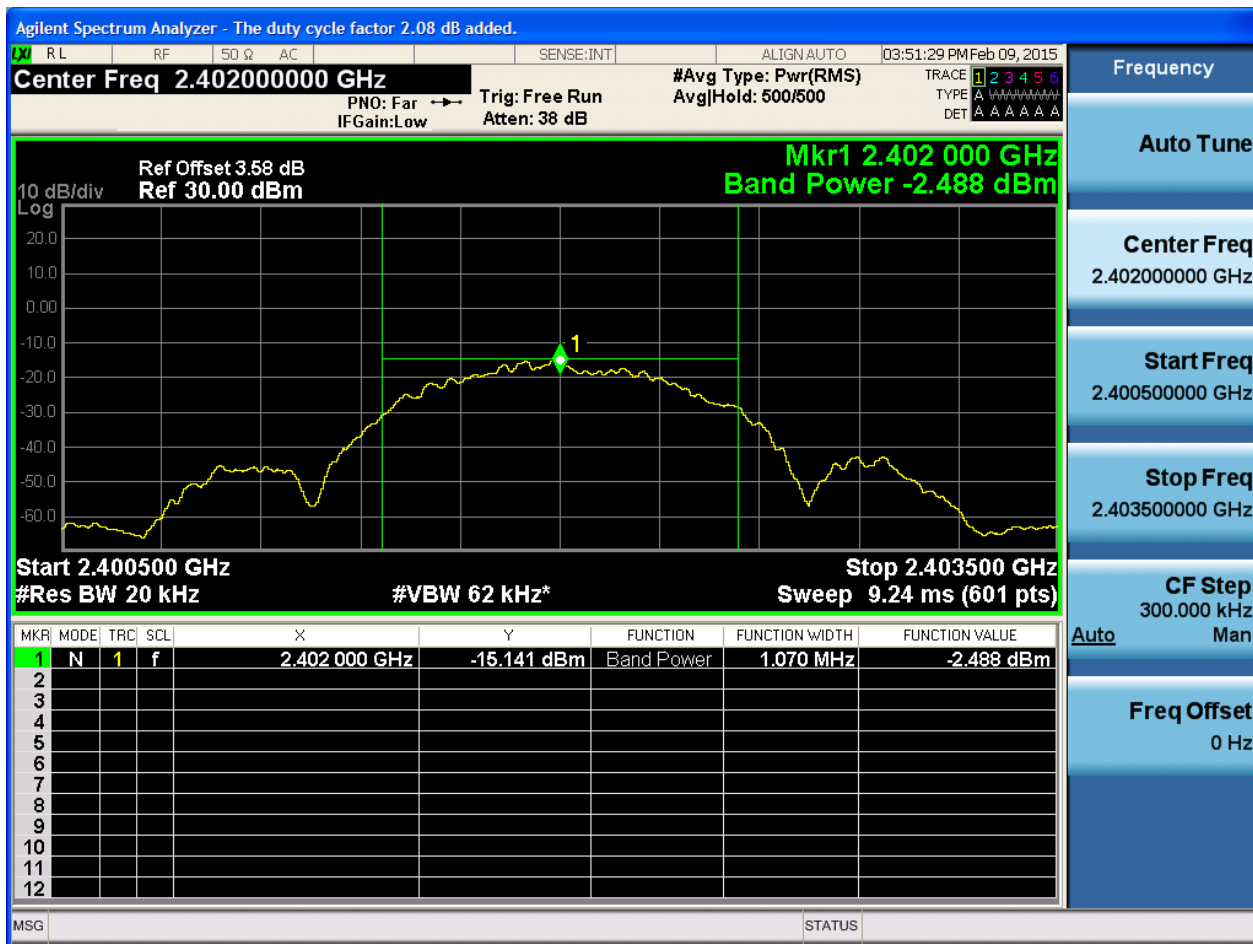
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Power[dBm]	Verdict
TM1_DH5_Ch0	L	2402	-2.49	pass
TM1_DH5_Ch19	M	2440	-1.18	pass
TM1_DH5_Ch39	H	2480	-0.90	pass



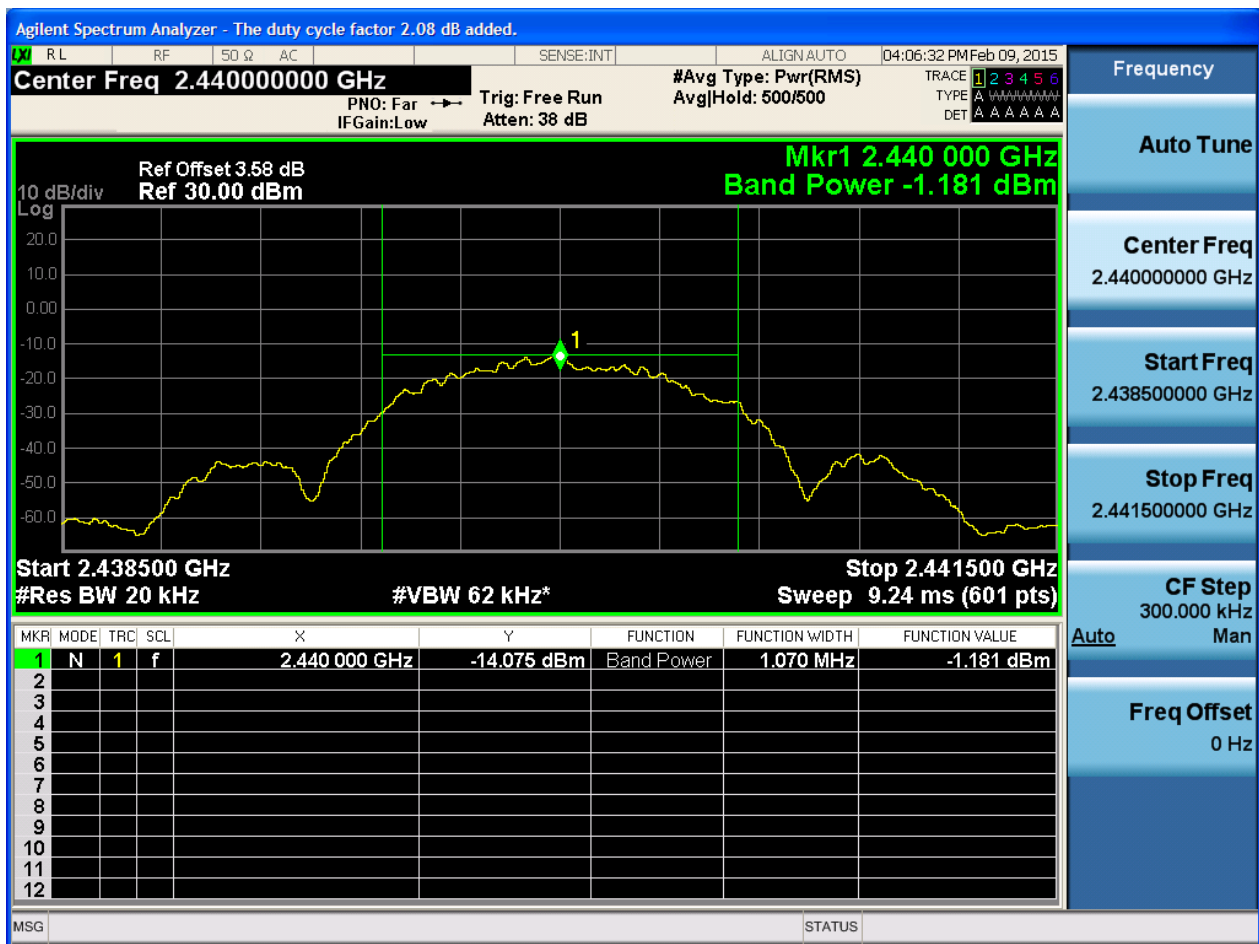
Part II - Test Plots

2.1 TM1_DH5_Ch0_L



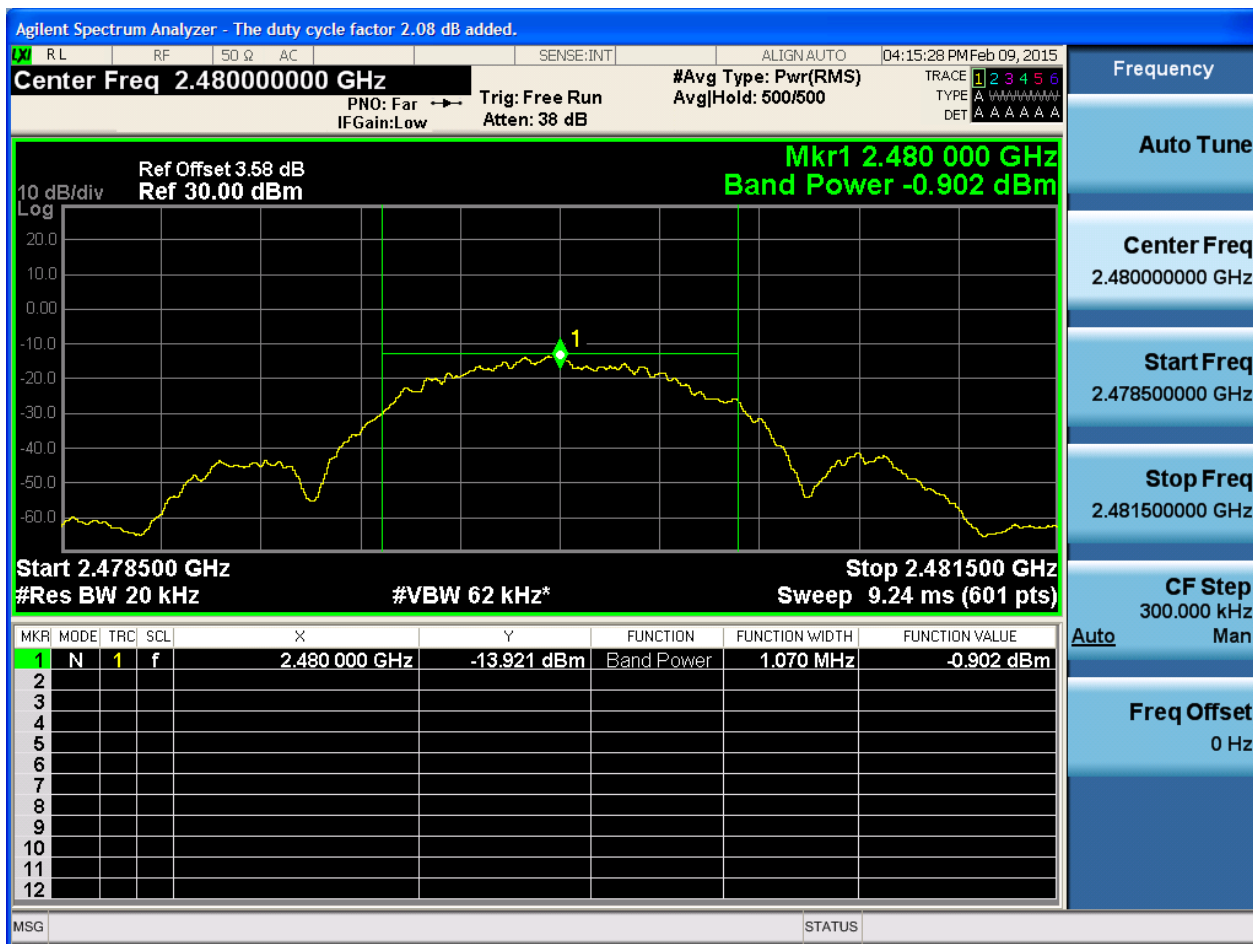


2.2 TM1_DH5_Ch19_M





2.3 TM1_DH5_Ch39_H



Appendix D: Maximum Power Spectral Density Level

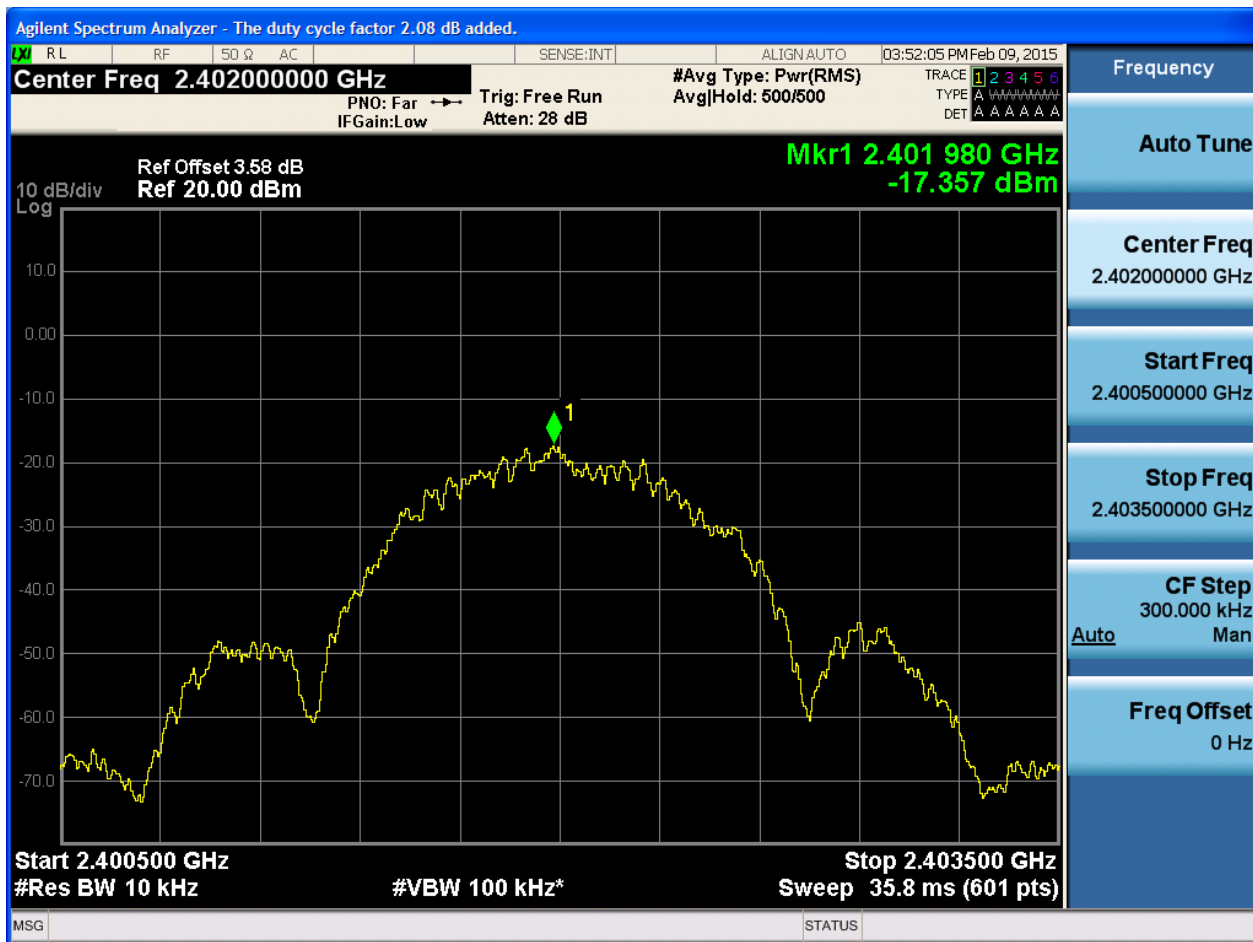
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	PD[MHz]	Verdict
TM1_DH5_Ch0	L	2402	-17.36	pass
TM1_DH5_Ch19	M	2440	-15.89	pass
TM1_DH5_Ch39	H	2480	-15.59	pass



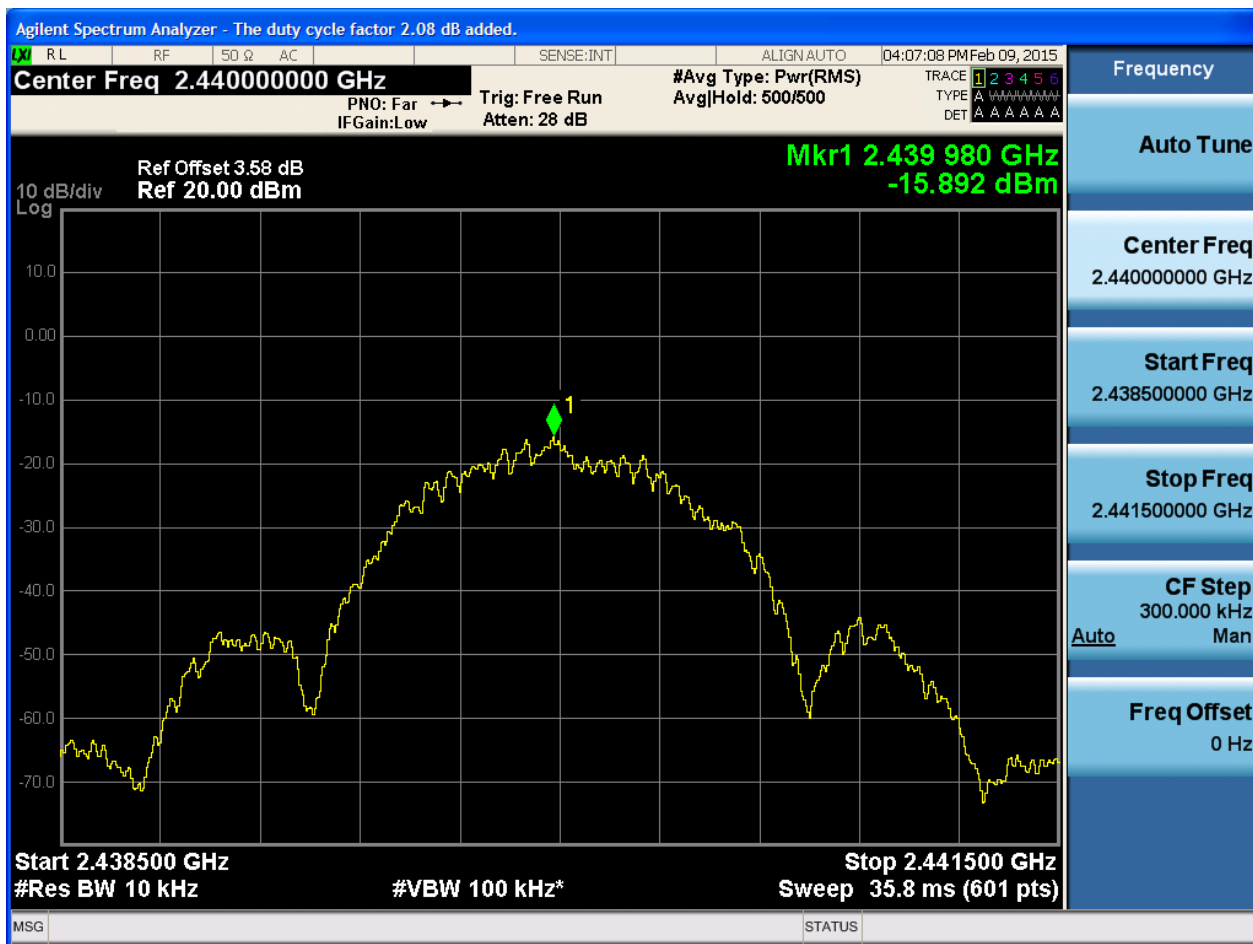
Part II - Test Plots

2.1 TM1_DH5_Ch0_L





2.2 TM1_DH5_Ch19_M





2.3 TM1_DH5_Ch39_H



Appendix E: Band Edges Compliance

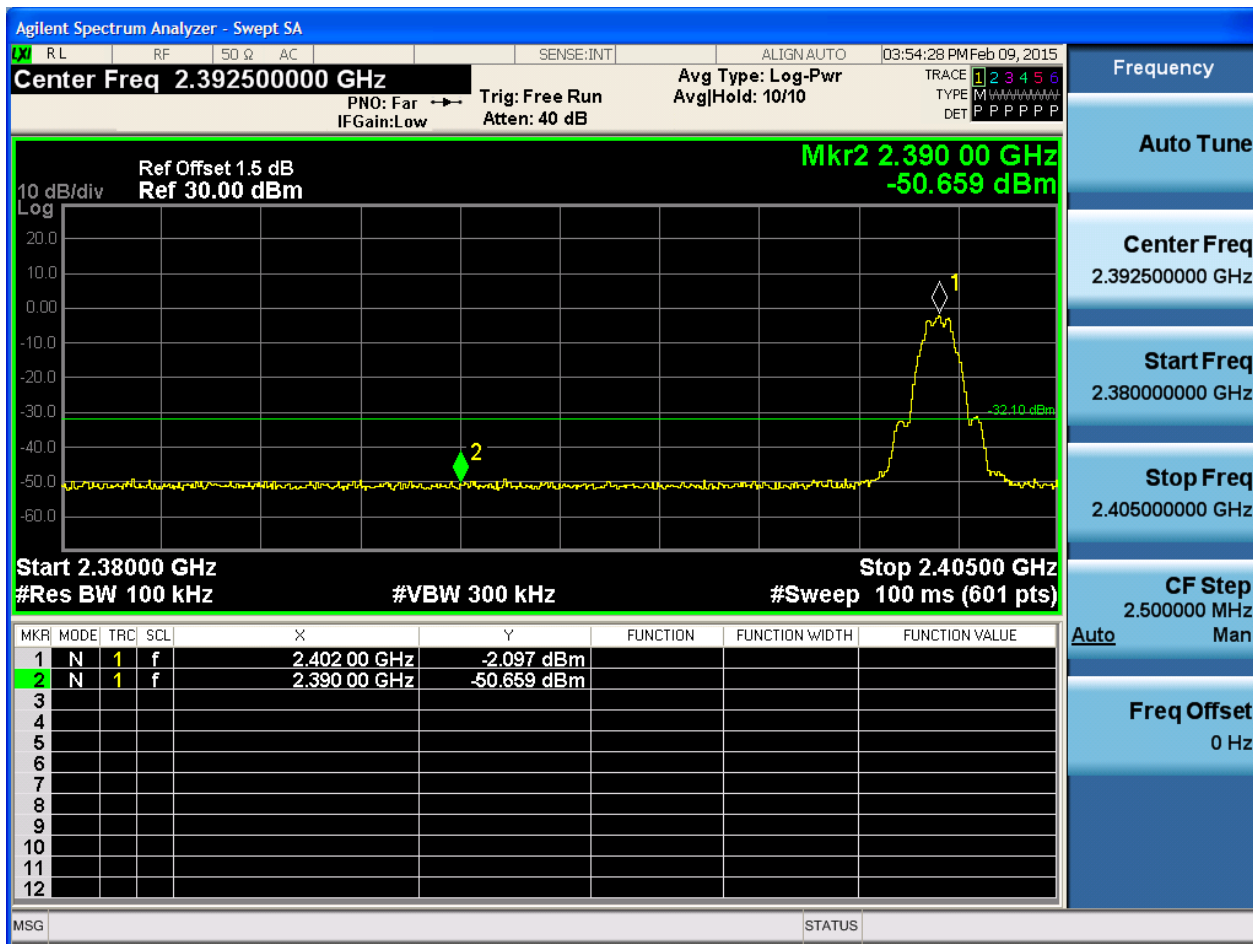
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
TM1_DH5_Ch0	L	2402	-2.10	-50.66	pass
TM1_DH5_Ch39	H	2480	-0.63	-51.61	pass



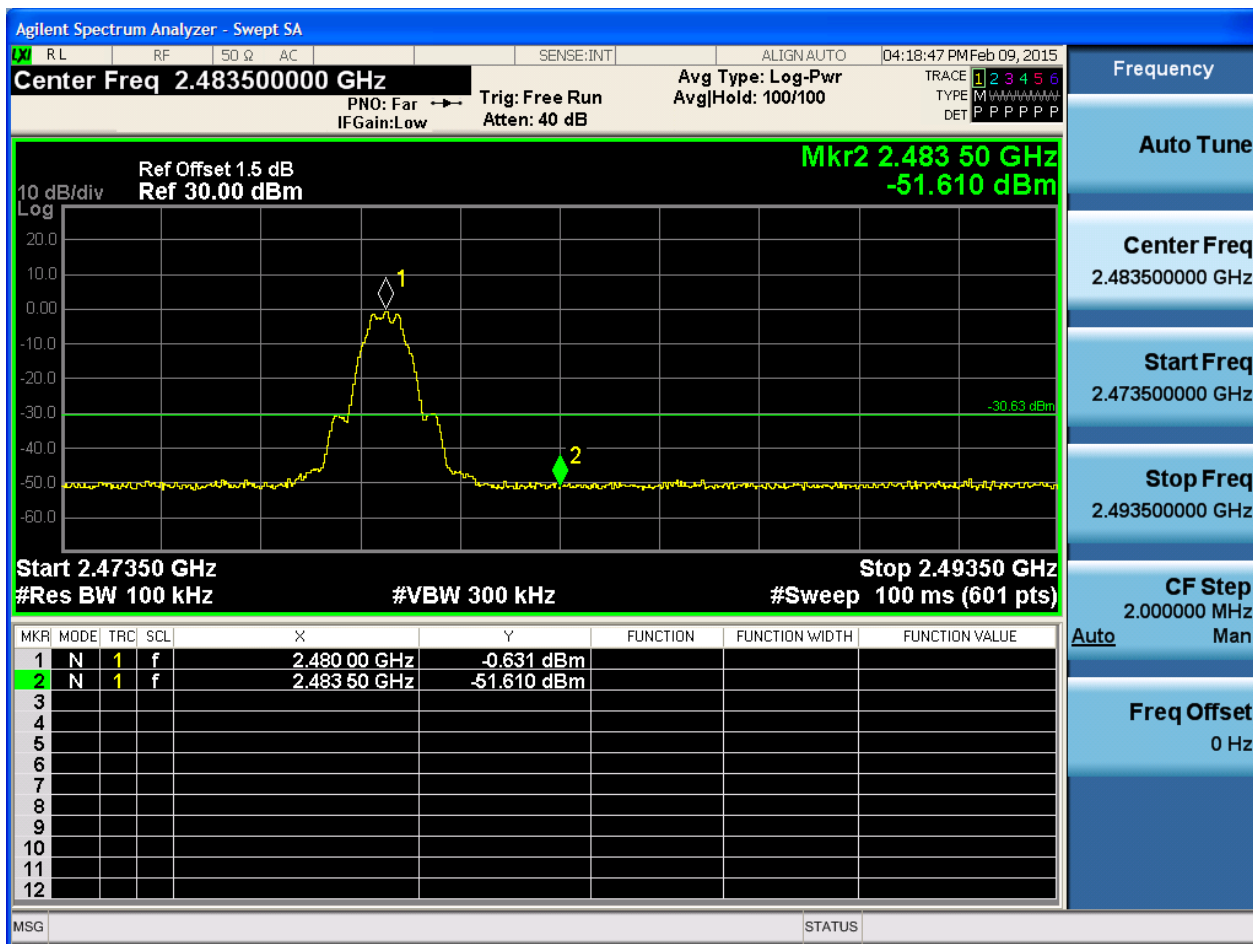
Part II - Test Plots

2.1 TM1_DH5_Ch0_L





2.2 TM1_DH5_Ch39_H



Appendix F: 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

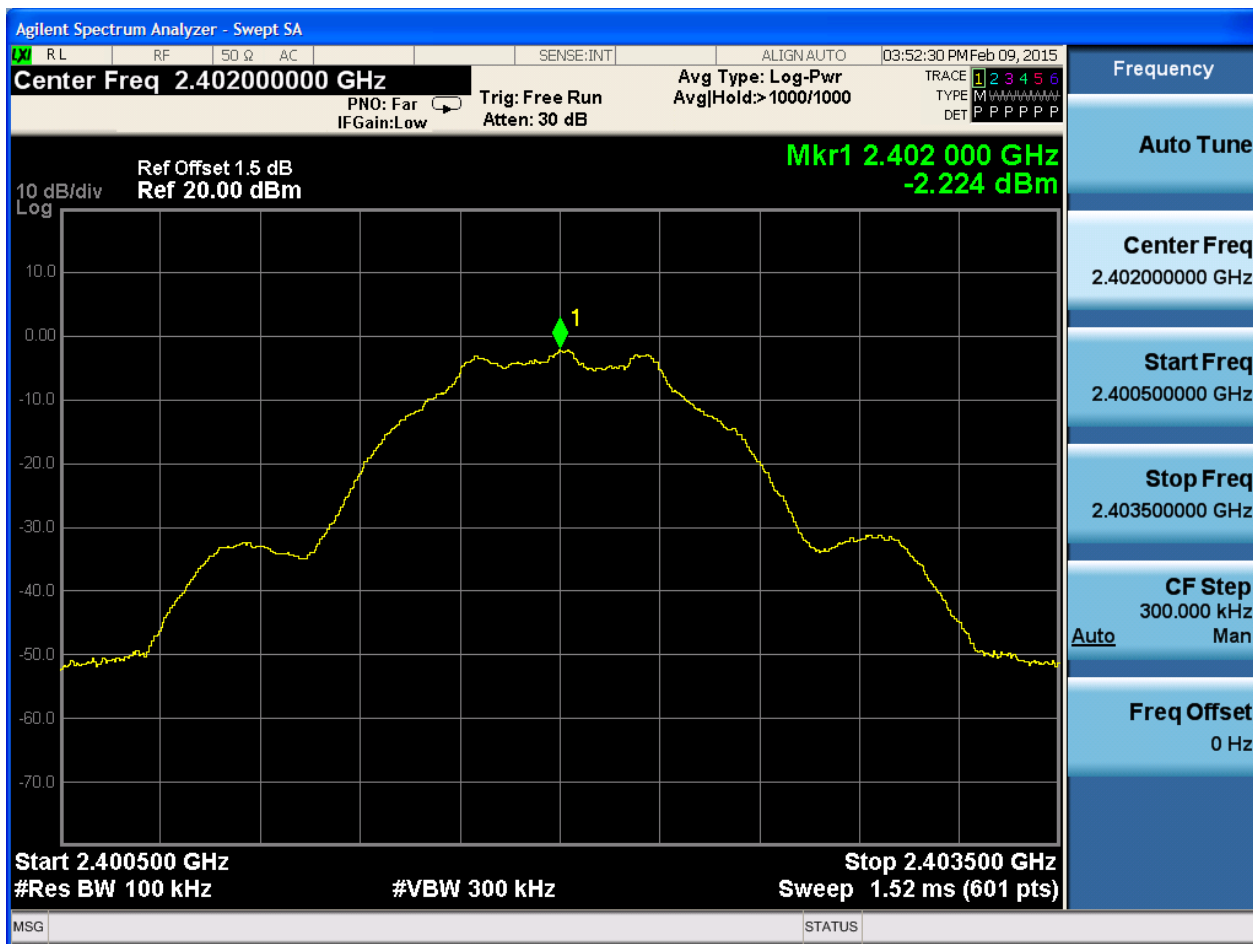
Test Mode	Test Channel	Frequency[MHz]	Pref[dBm]	Puw[dBm]	Verdict
TM1_DH5_Ch0	L	2402	-2.22	<limit	pass
TM1_DH5_Ch19	M	2440	-0.97	<limit	pass
TM1_DH5_Ch39	H	2480	-0.48	<limit	pass



Part II - Test Plots

2.1 TM1_DH5_Ch0_L

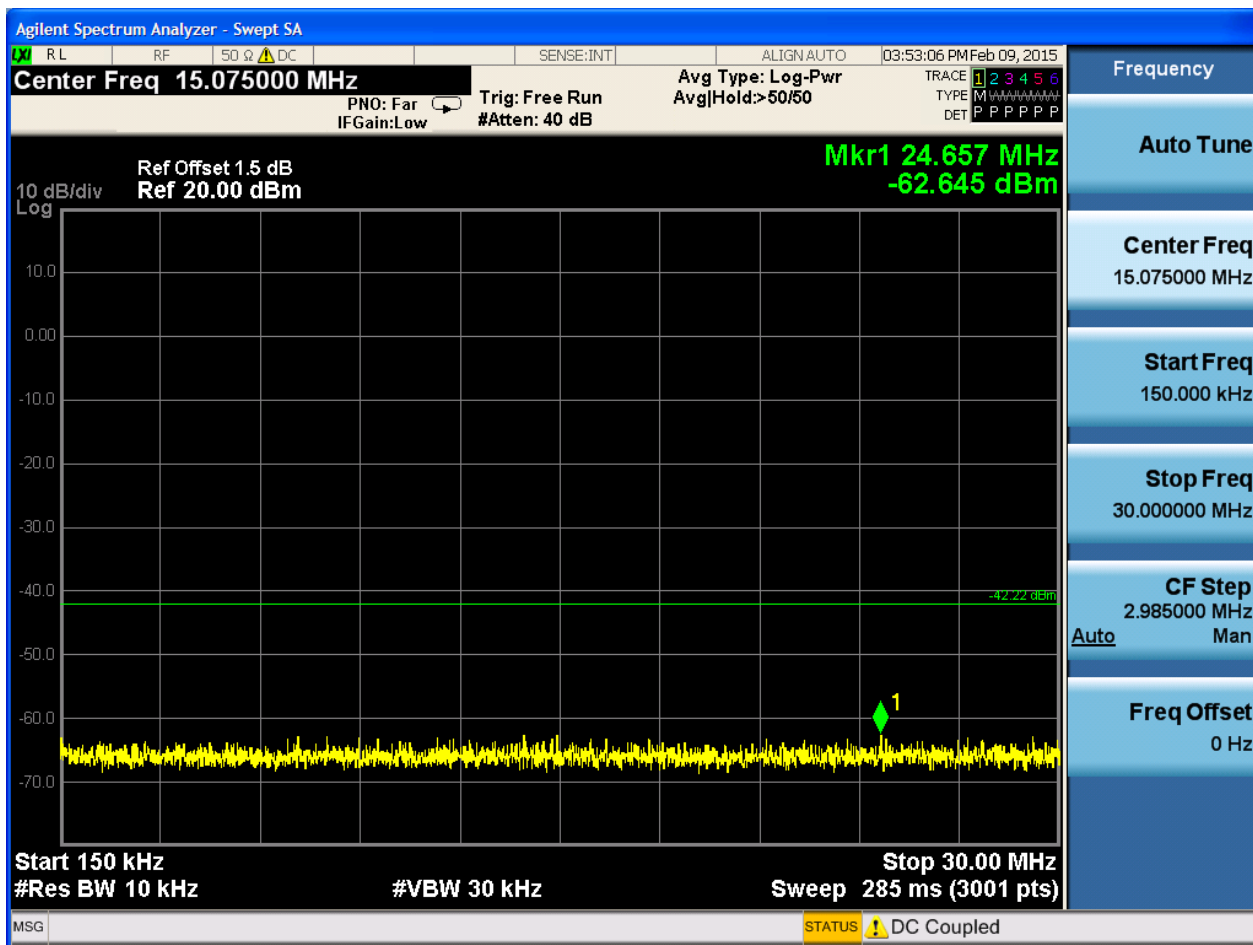
Pref:

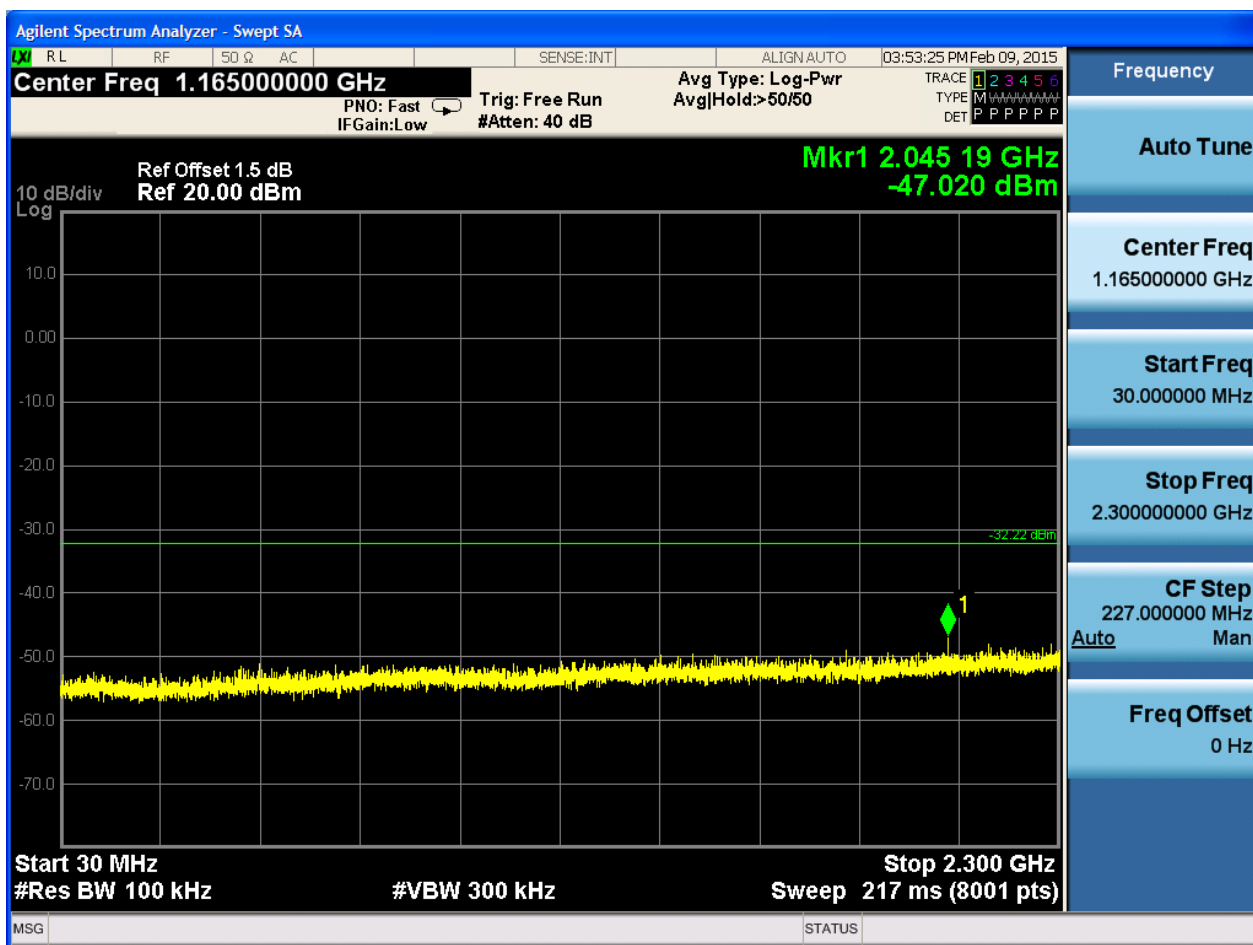


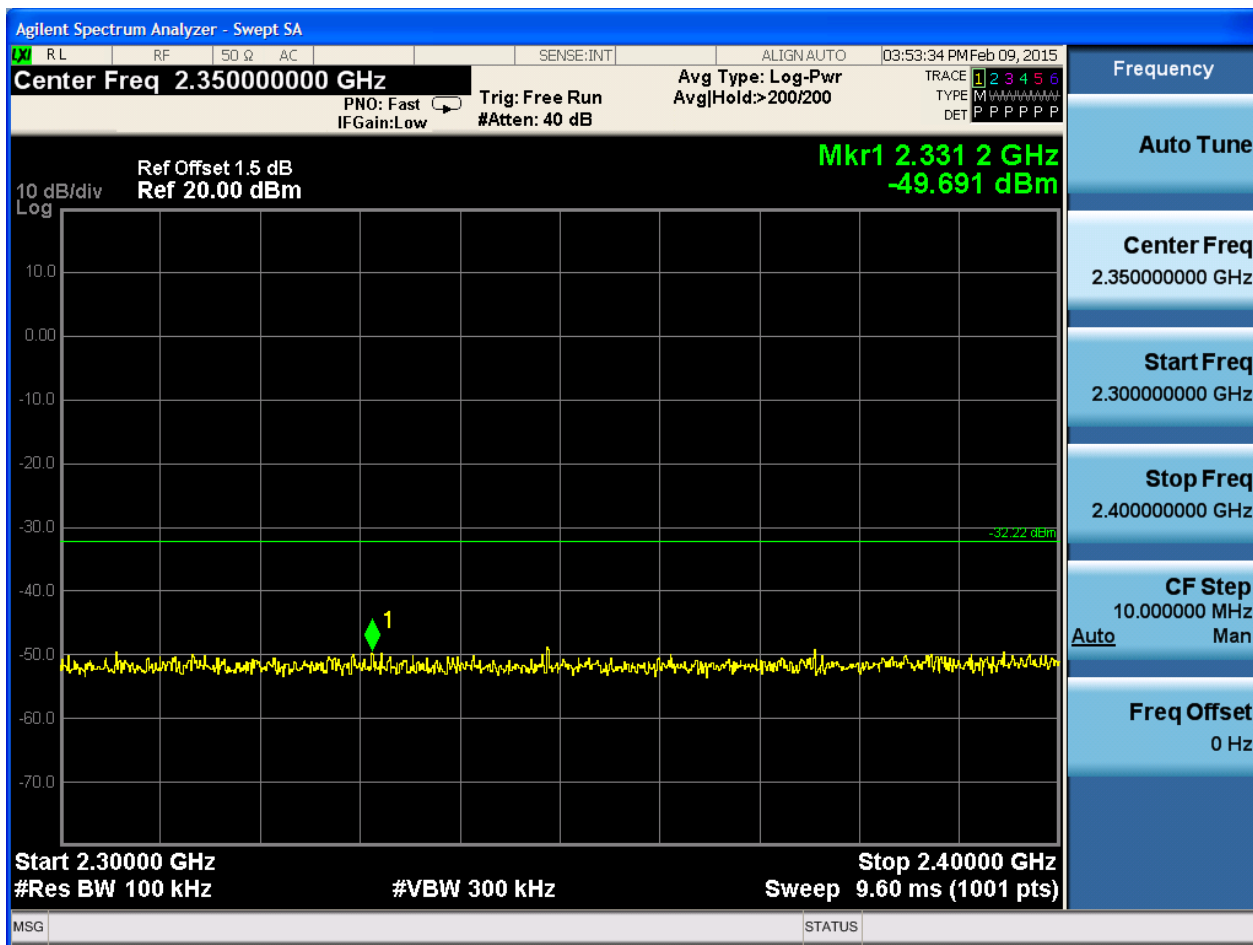


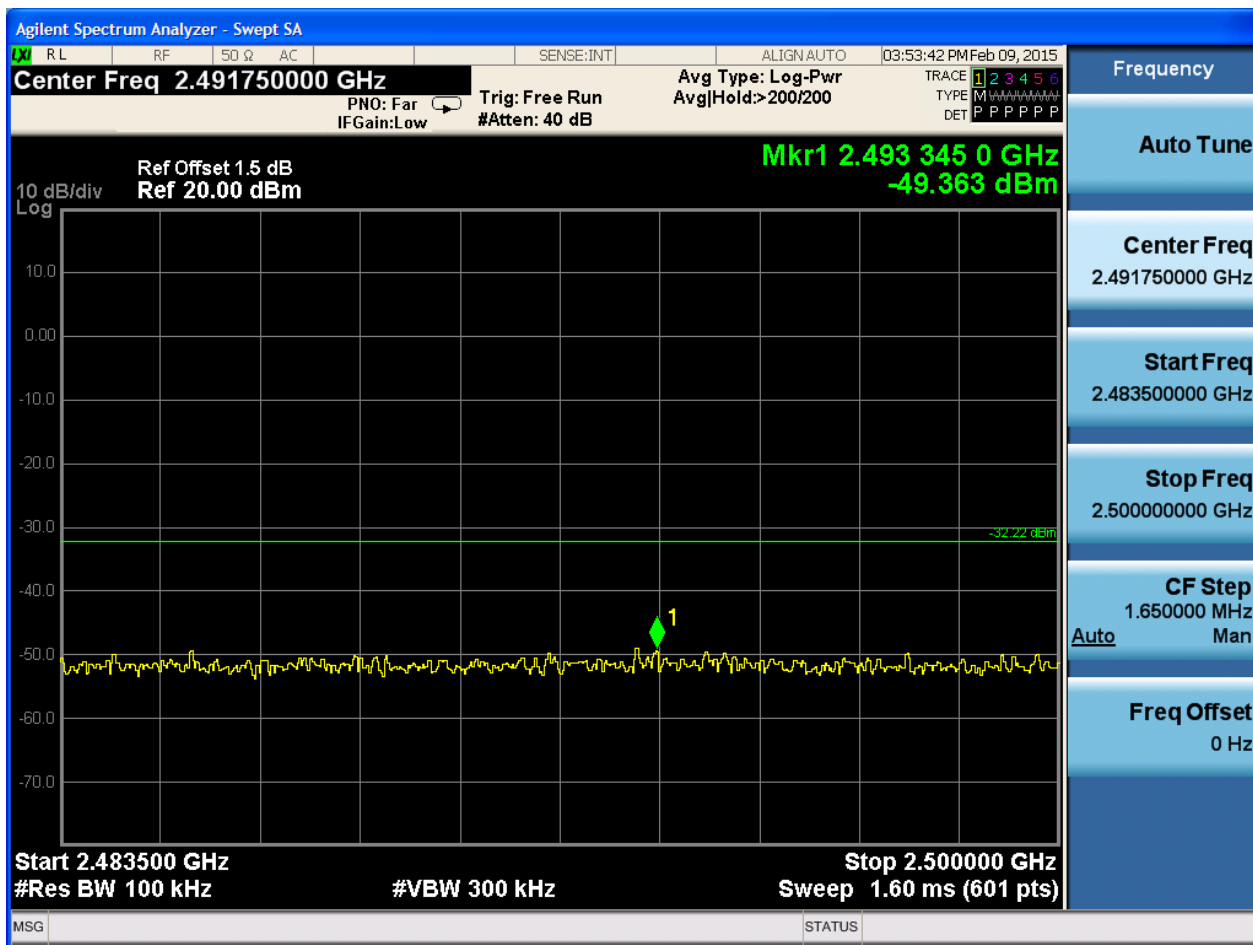
Puw:

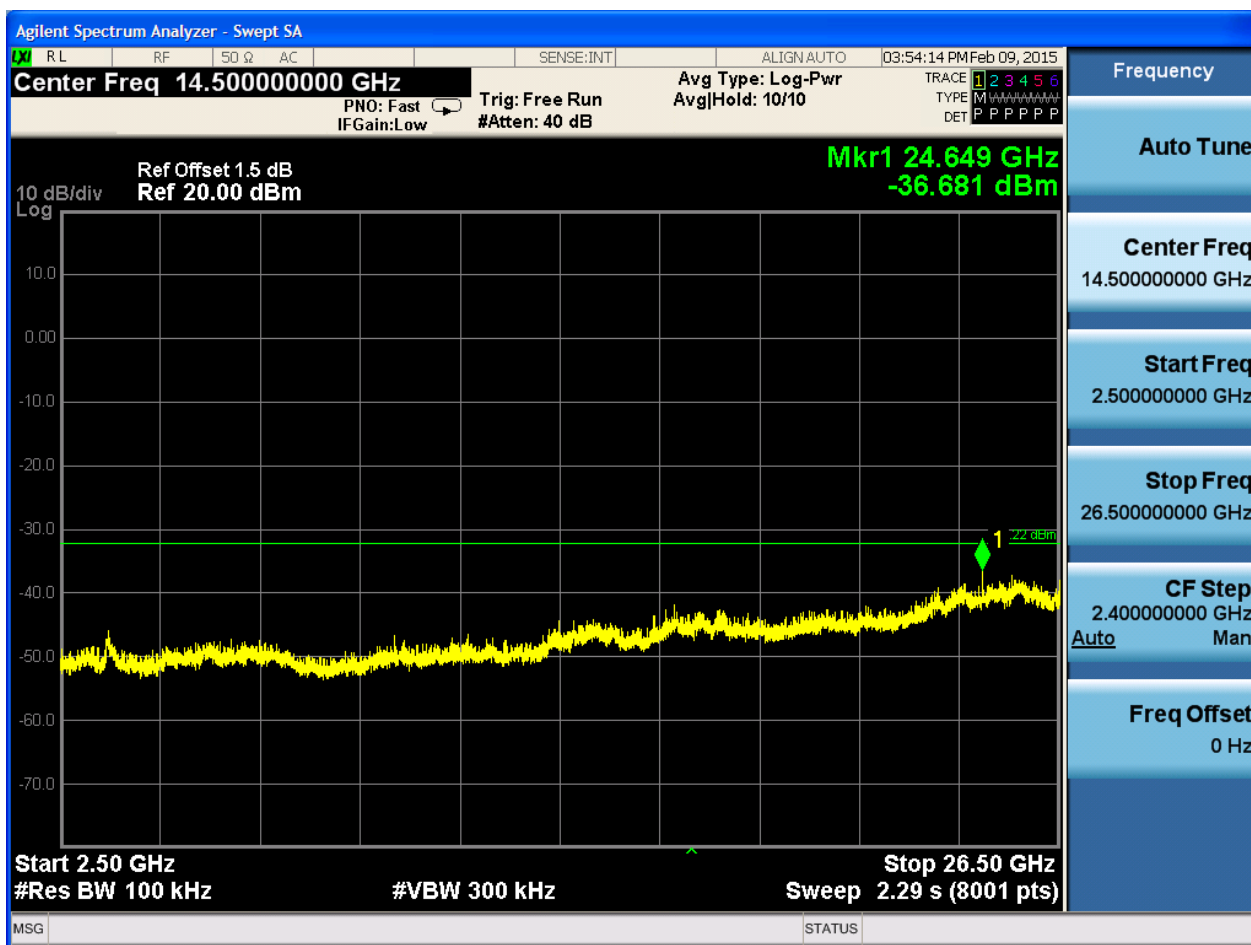








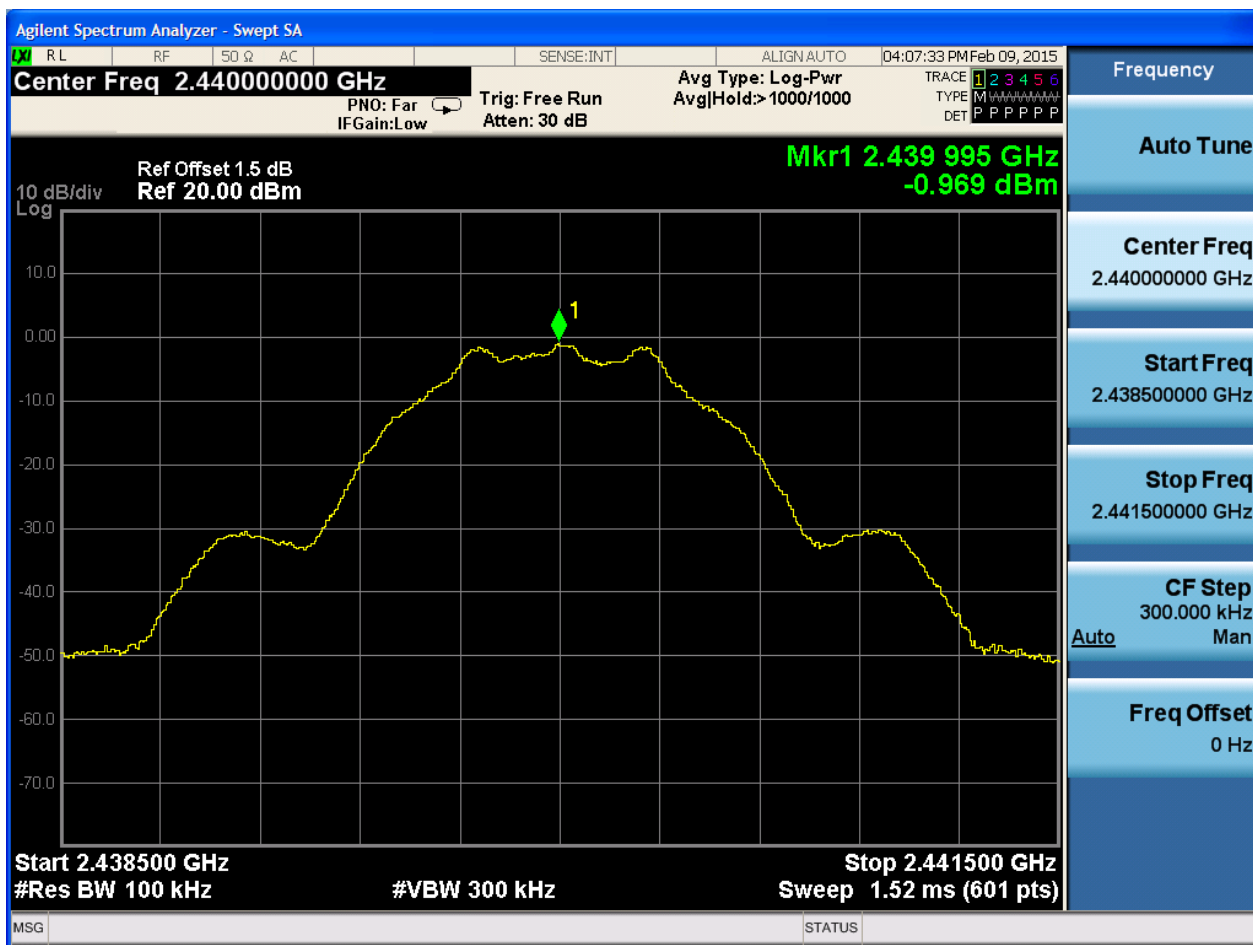






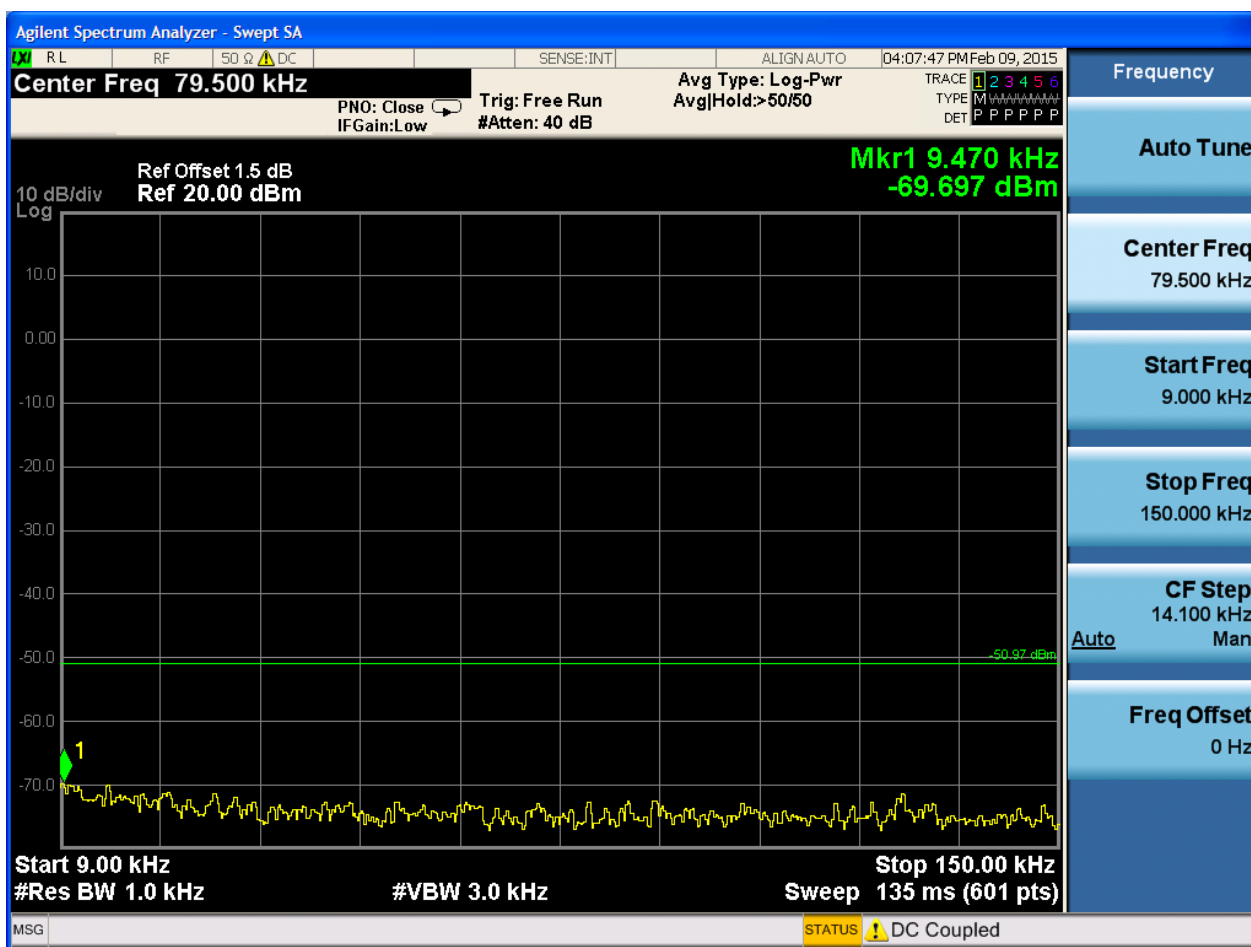
2.2 TM1_DH5_Ch19_M

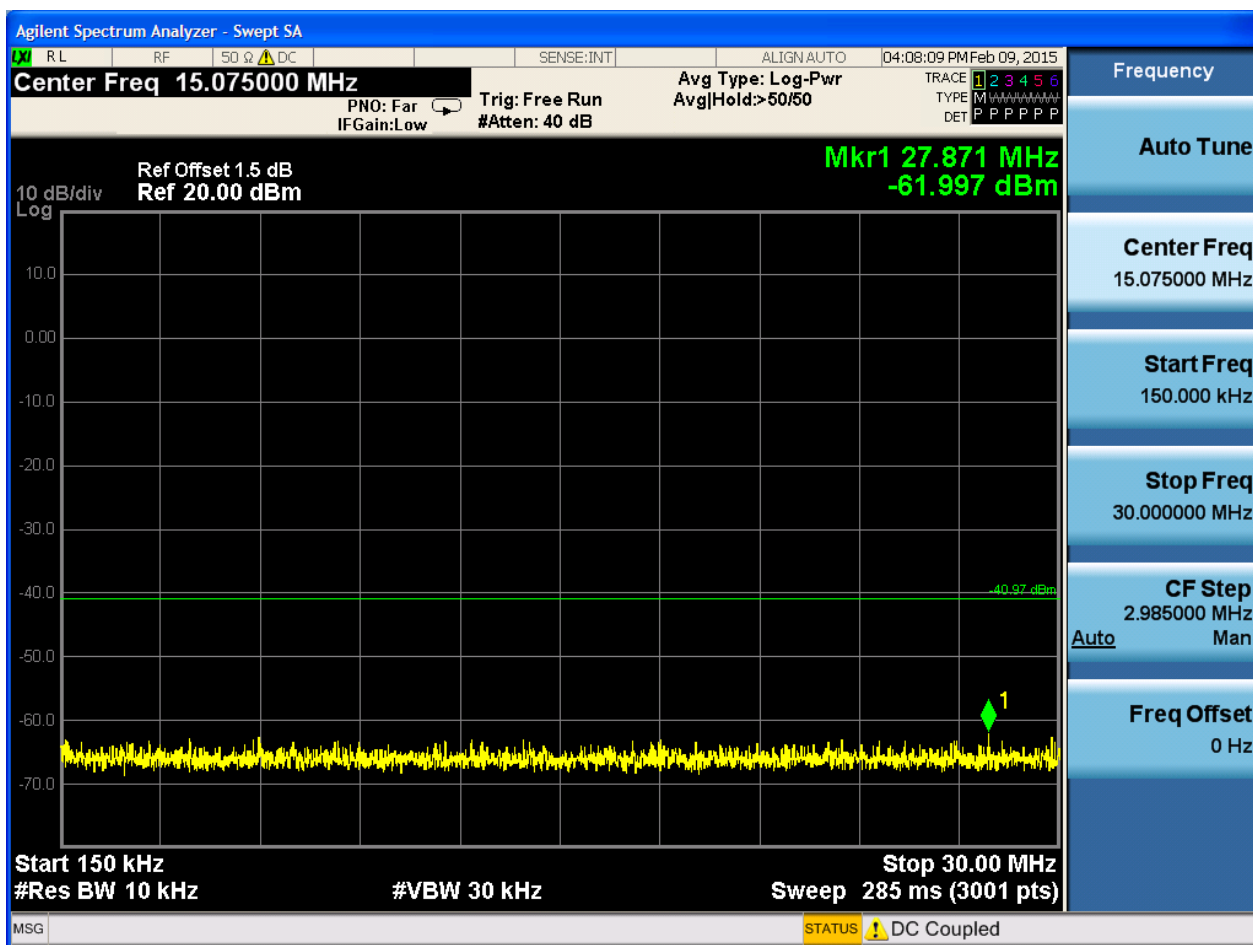
Pref:

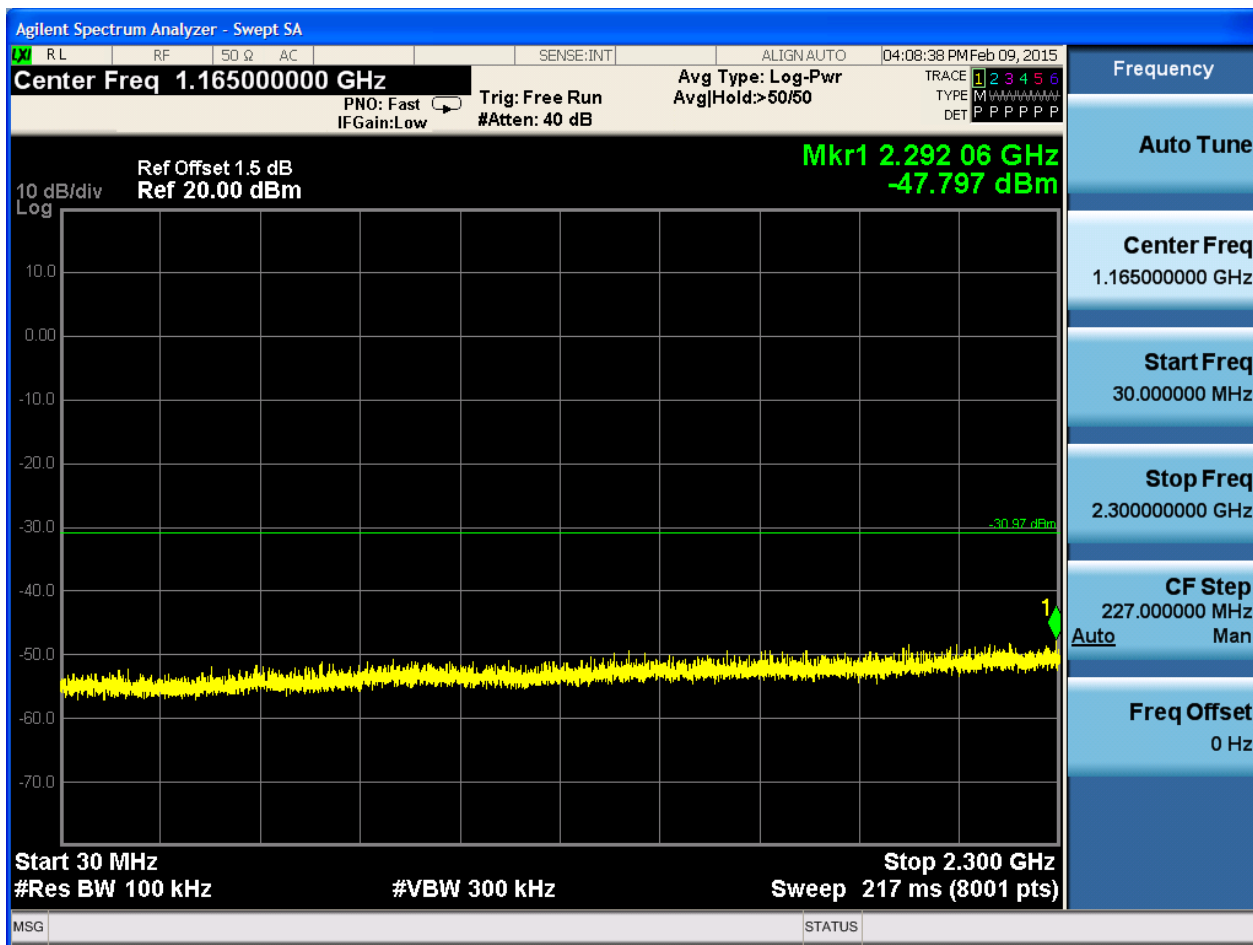


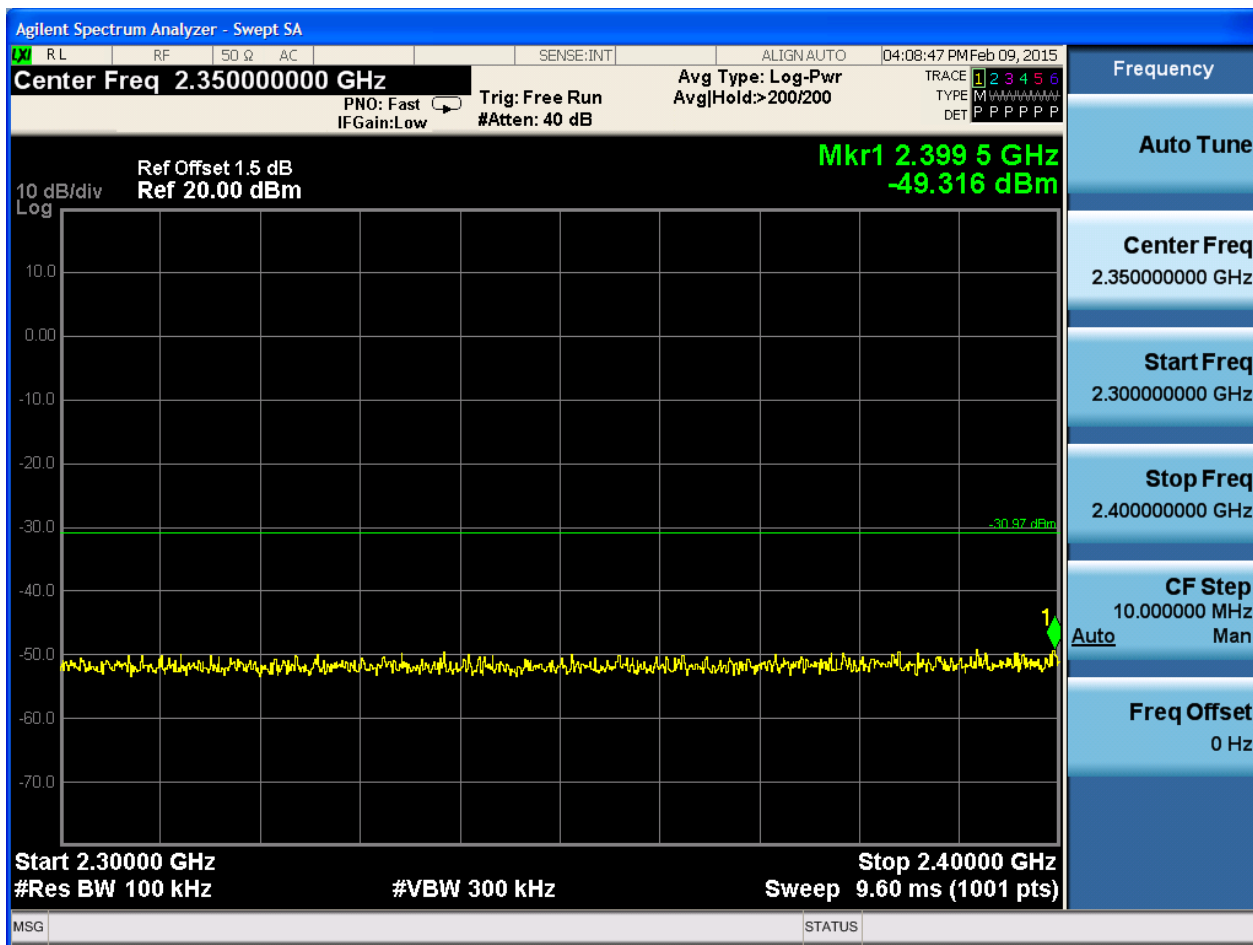


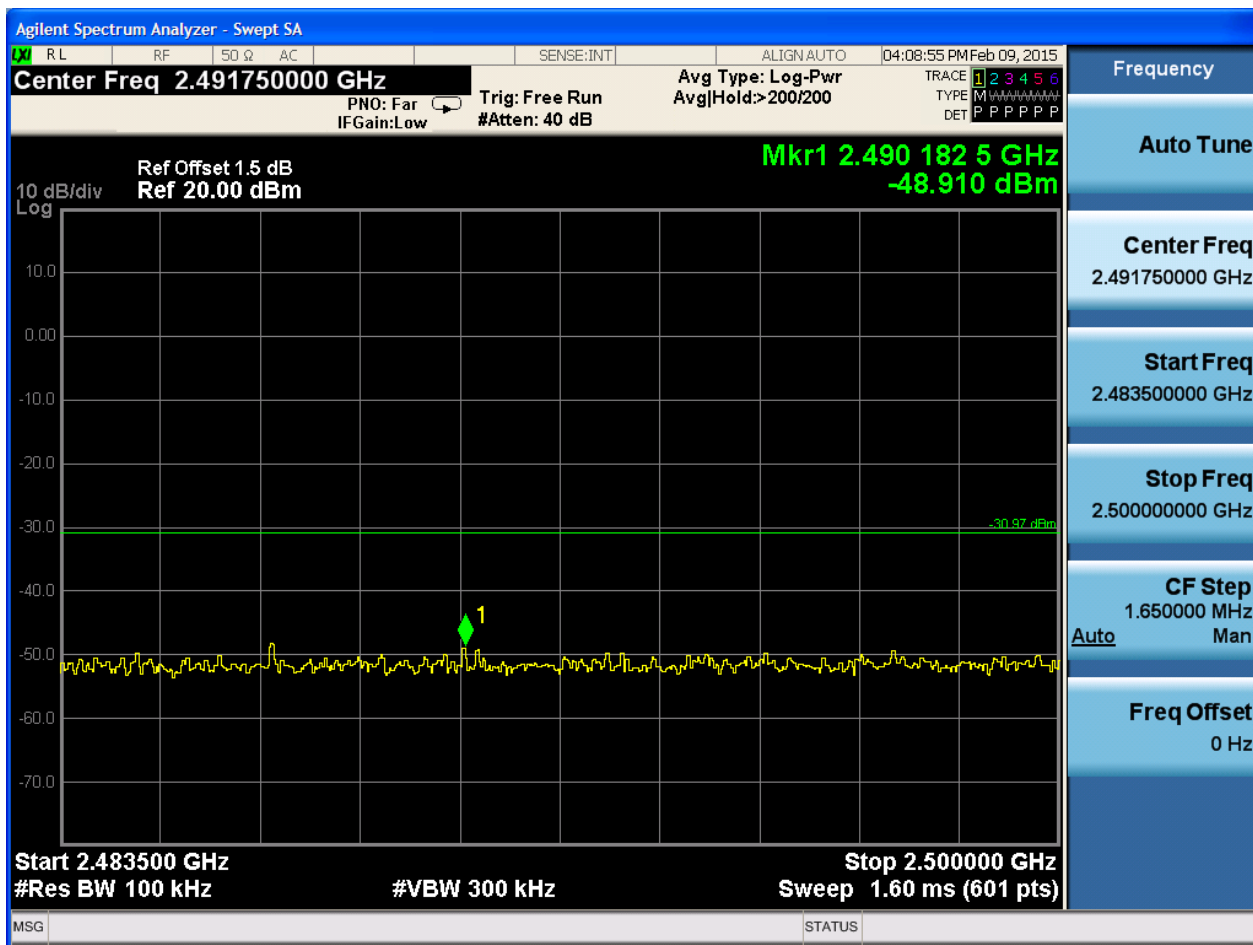
Puw:







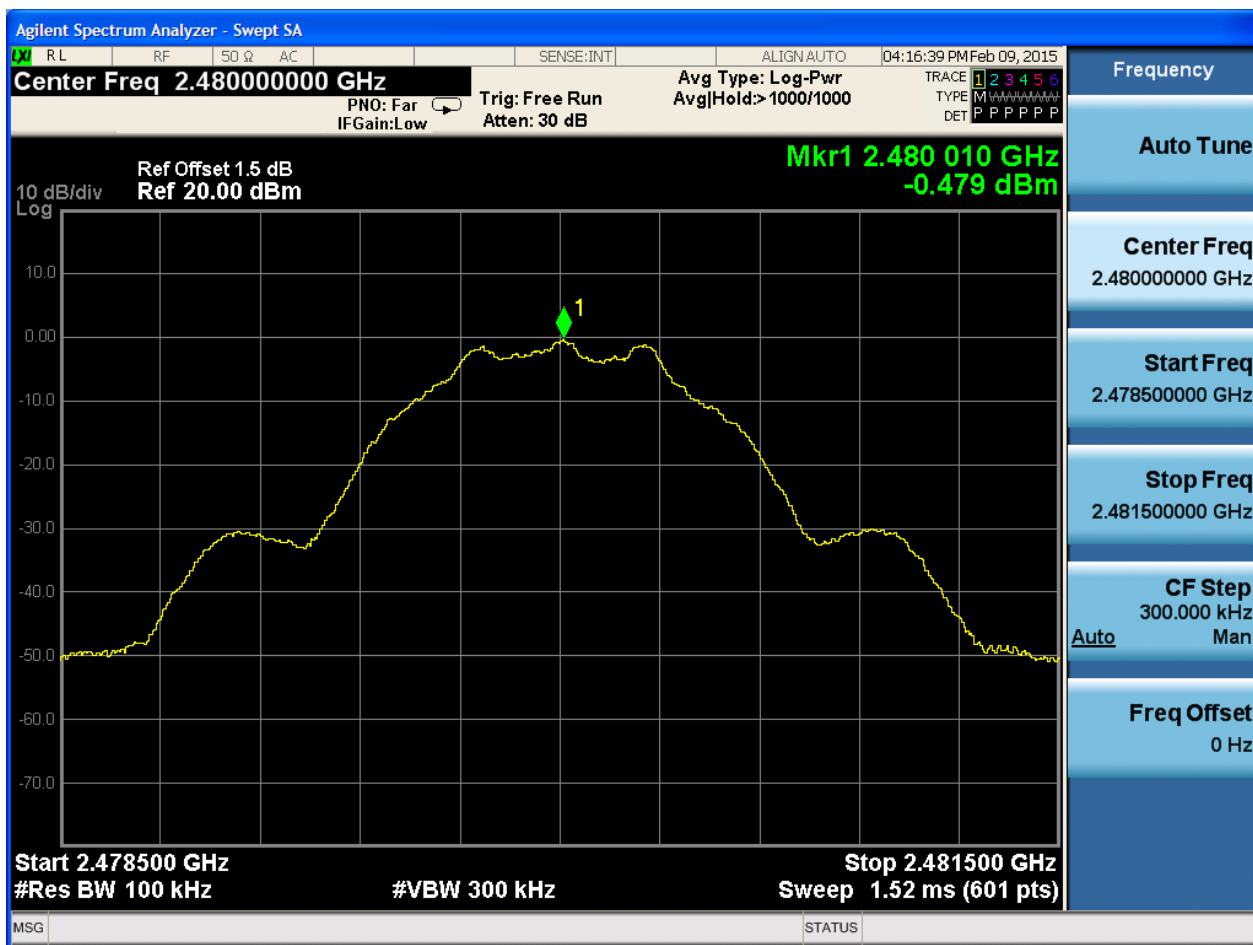






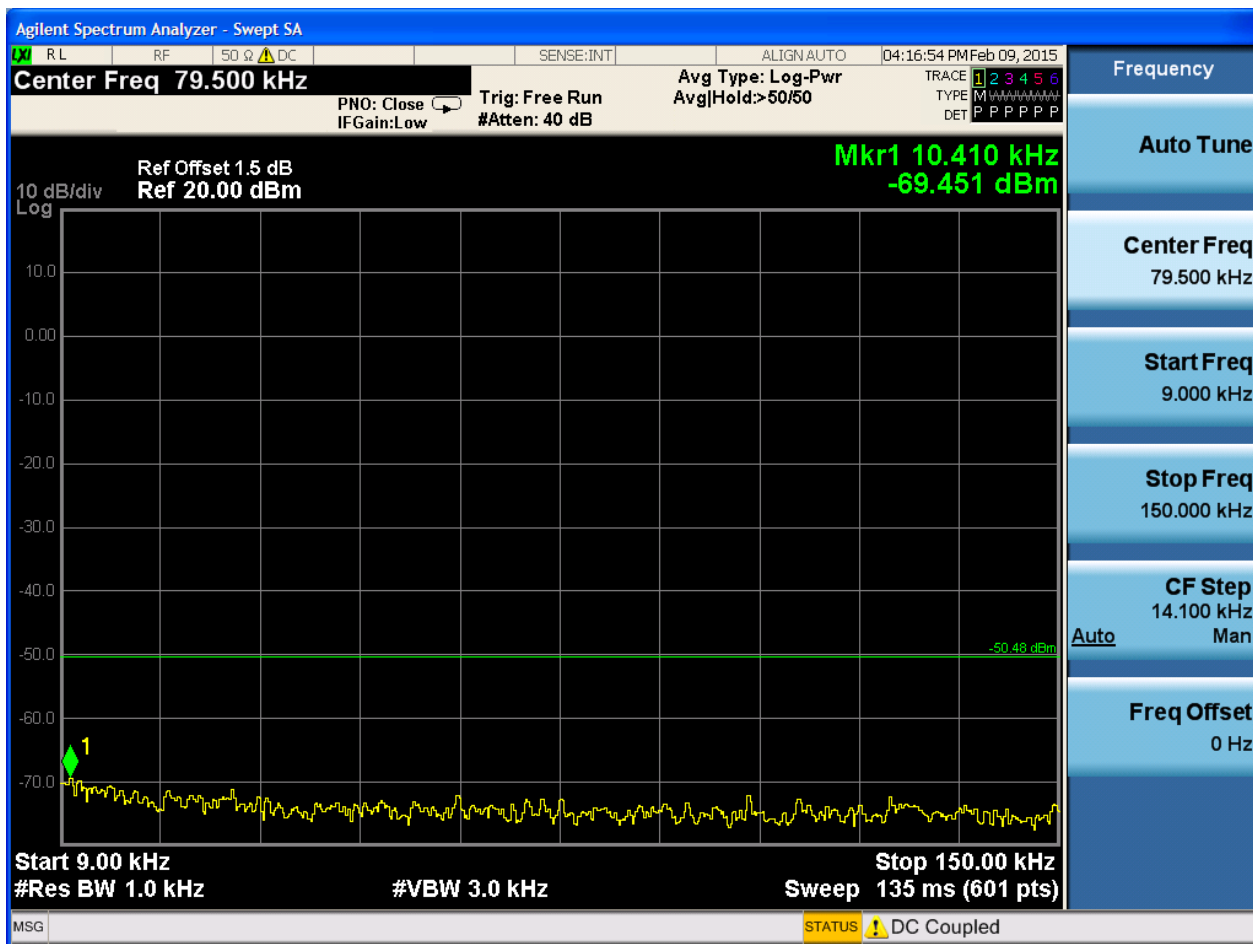
2.3 TM1_DH5_Ch39_H

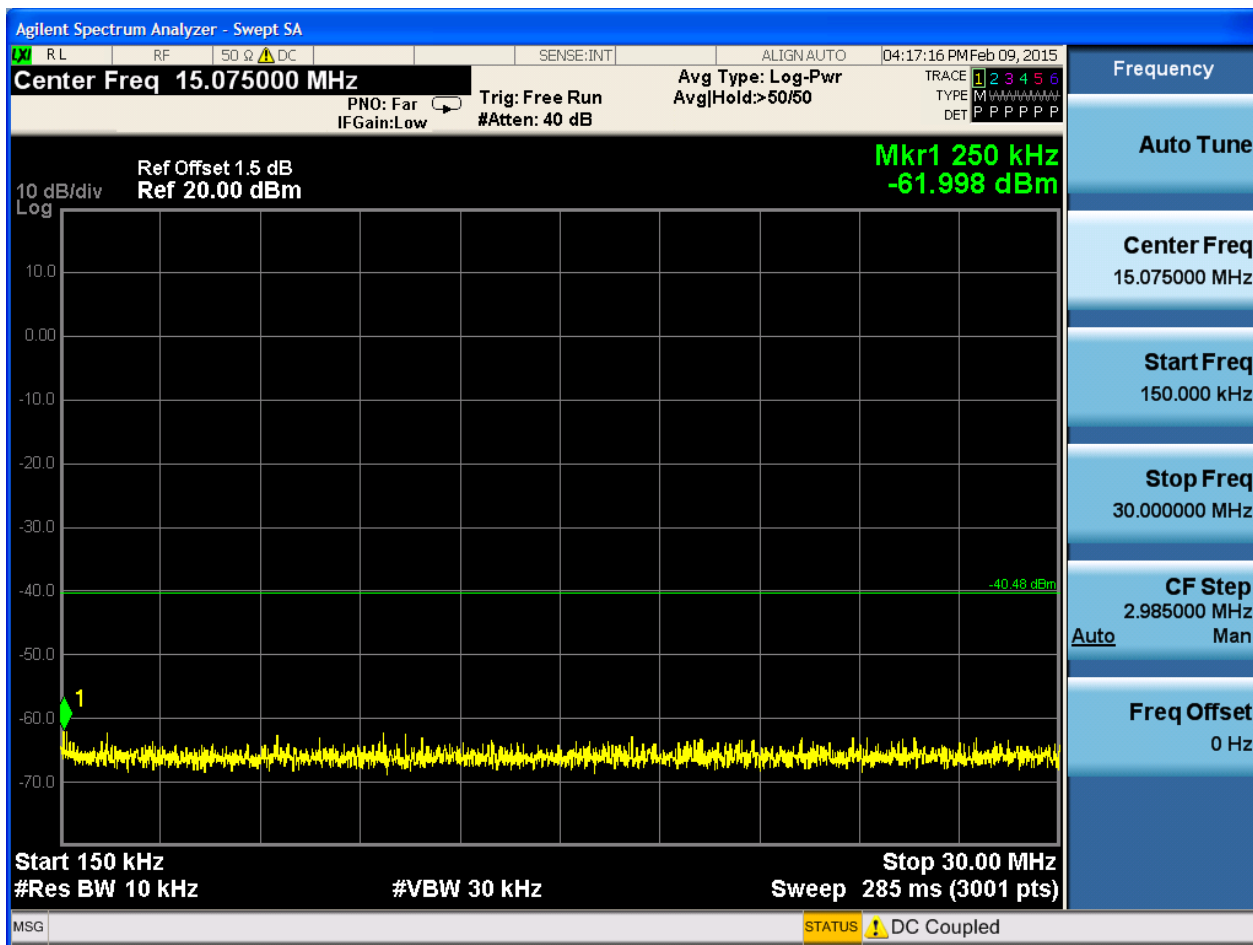
Pref:

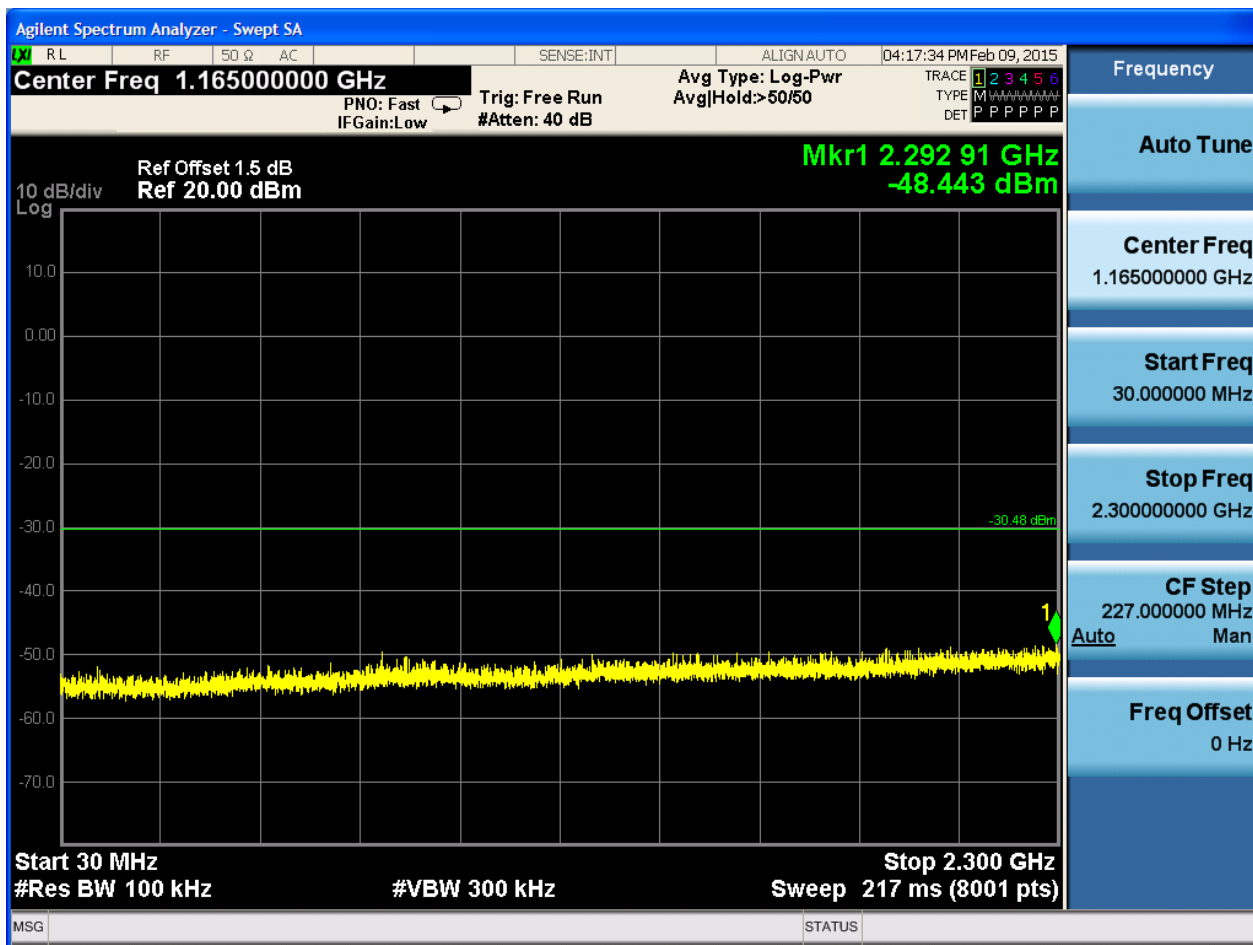


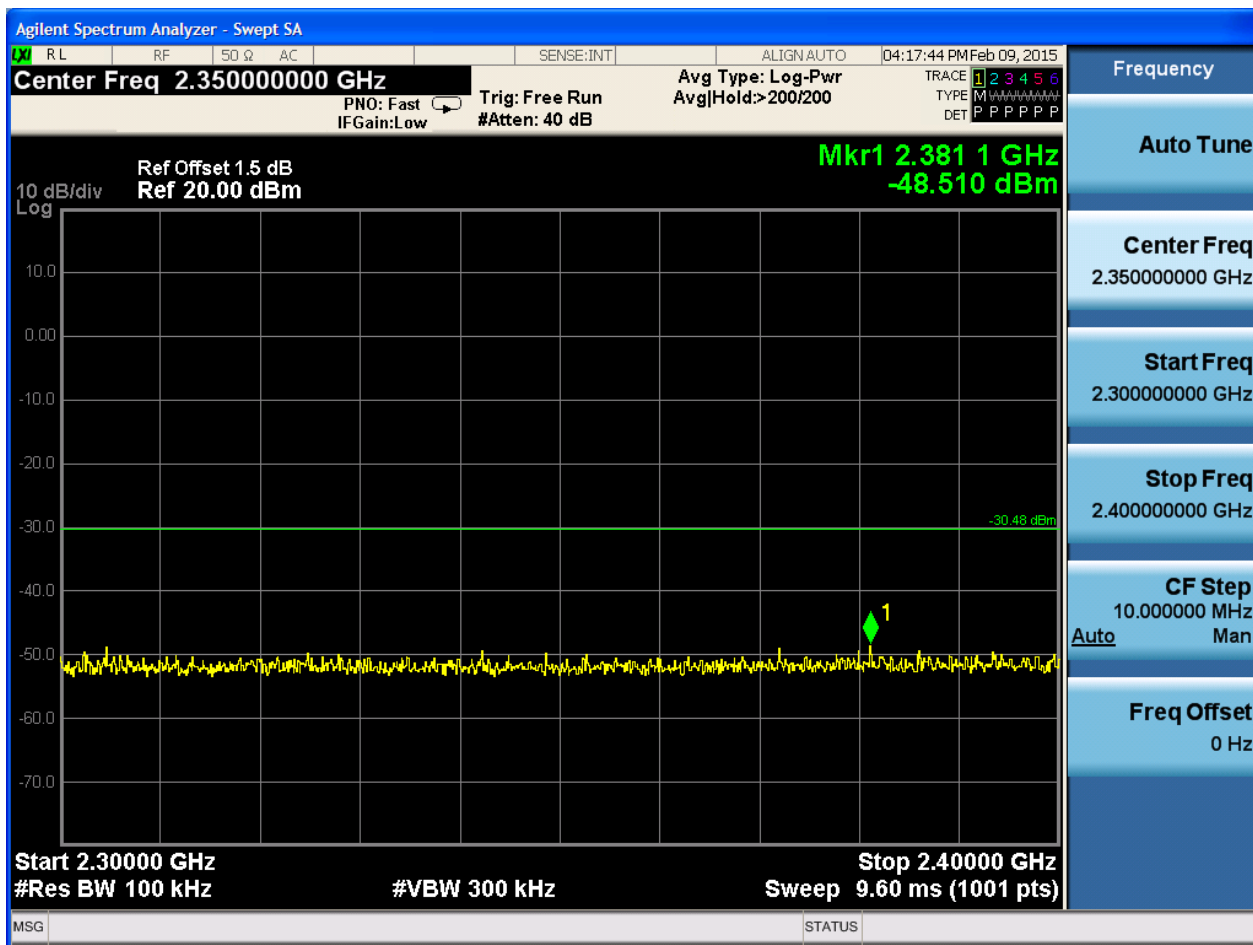


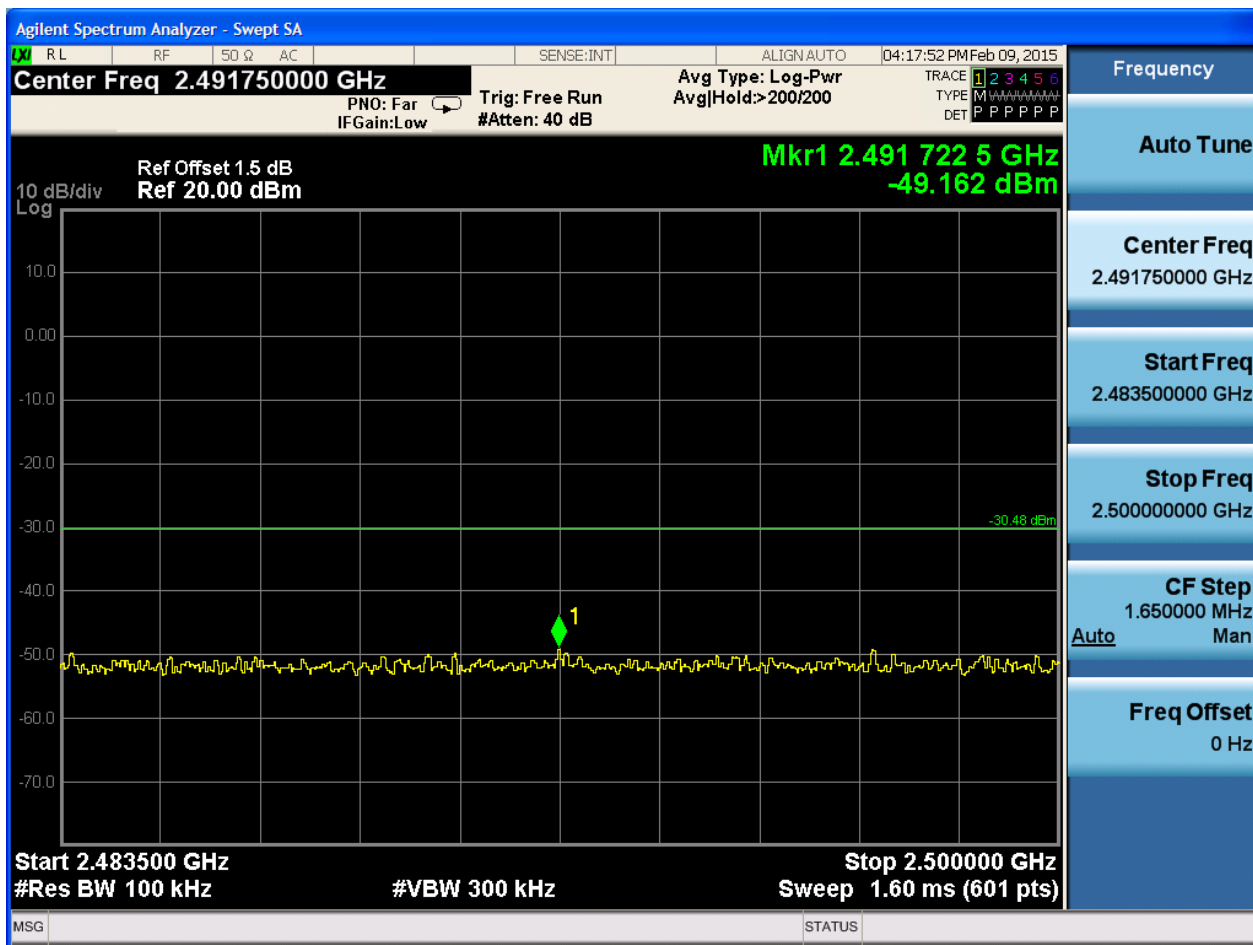
Puw:













Appendix G: 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

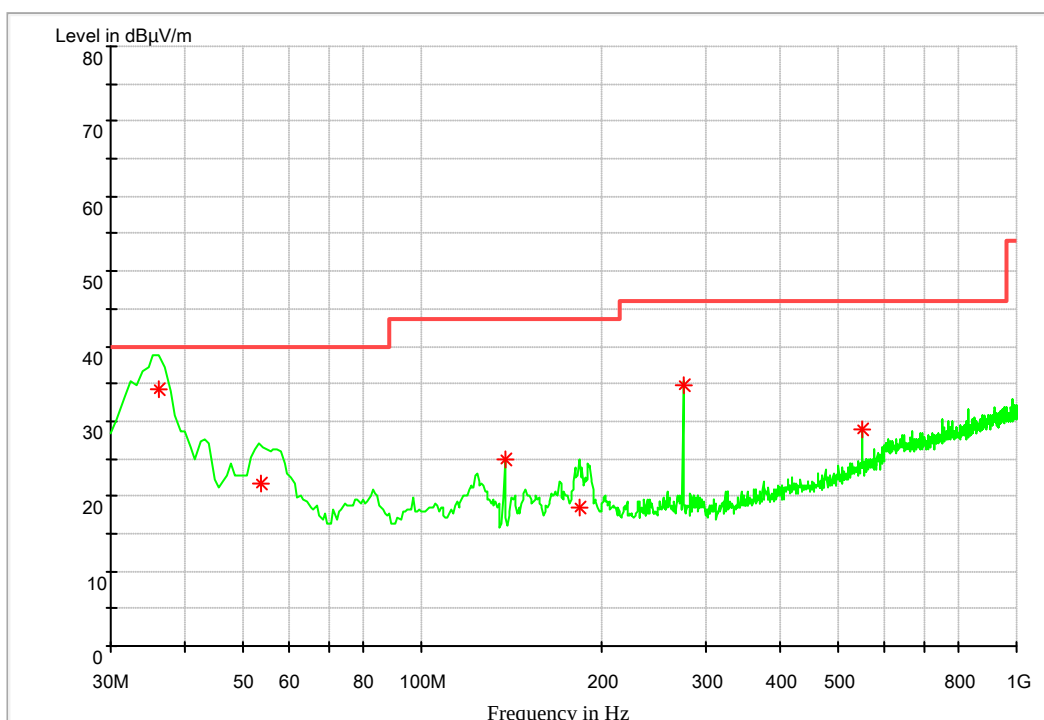
Part 1: Testing Range of “9 kHz to 30MHz”

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.

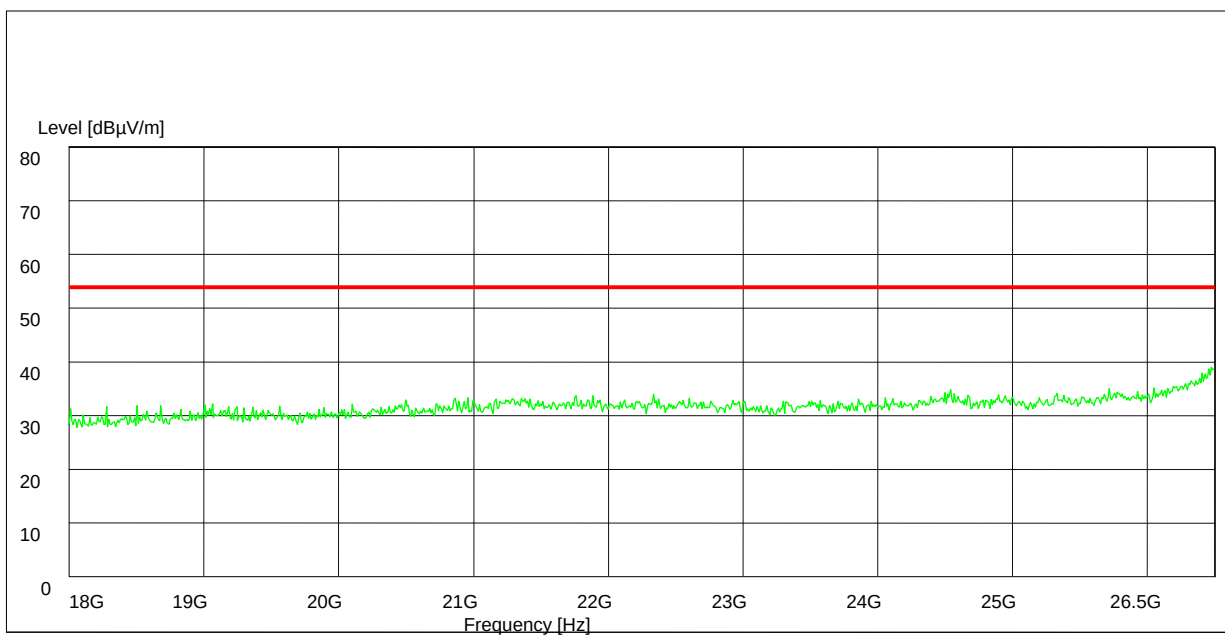
Note 2: The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).



Frequency MHz	Level dBμV/m	Transducer dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarisation
36.161600	34.2	14.8	40.0	5.8	100.0	205.0	VERTICAL
53.520000	21.8	14.7	40.0	18.2	100.0	173.0	VERTICAL
137.808320	25.0	10.5	43.5	18.5	100.0	333.0	VERTICAL
184.076160	18.6	12.0	43.5	24.9	180.0	184.0	HORIZONTAL
275.631040	34.9	15.0	46.0	11.1	100.0	228.0	HORIZONTAL
551.237760	28.8	20.9	46.0	17.2	100.0	223.0	VERTICAL

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

Note: No peak found in pre- test.



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

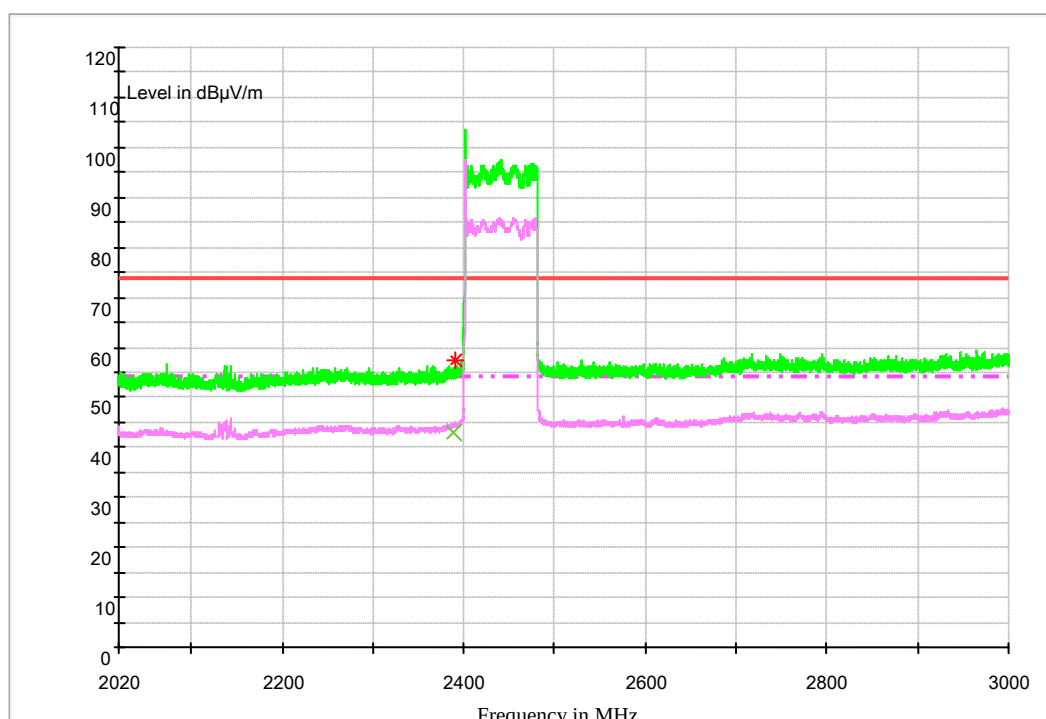
Note 1: The testing range of “2.3 GHz to 2.5 GHz” is for checking radiated emissions located in restricted bands near the EUT operating bands.

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:

Channel 0



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

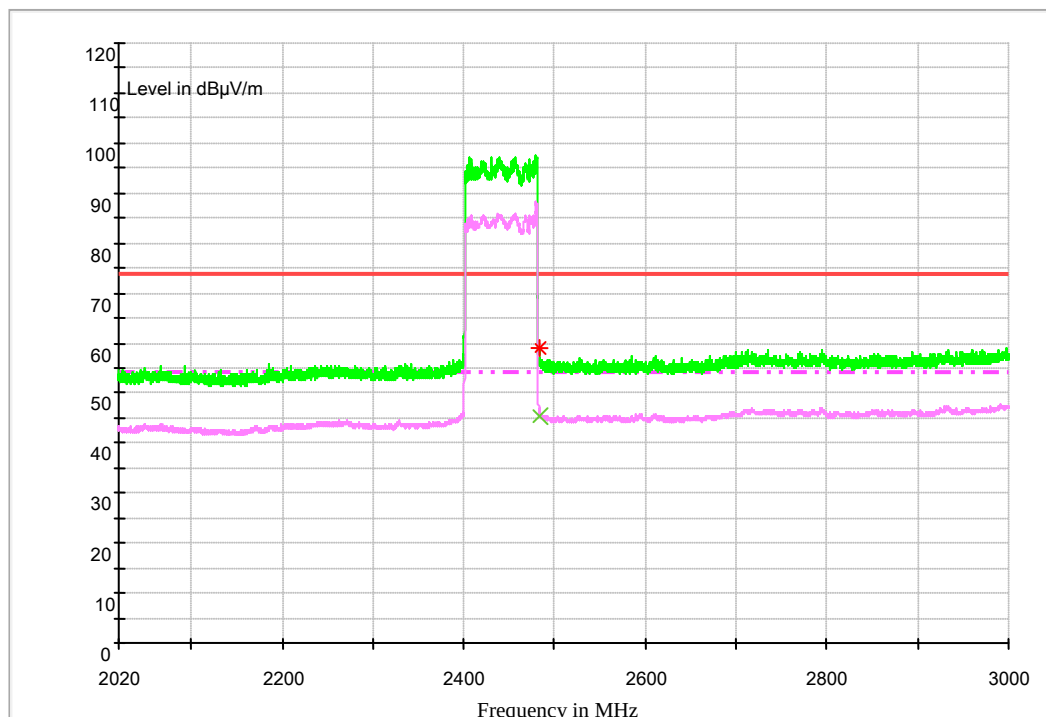
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	57.4	38.3	74.0	16.6	100.0	229.0	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	43.1	38.3	54.0	10.9	100.0	265.0	VERTICAL

Channel 39



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

MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	59.0	41.0	74.0	15.0	100.0	278.0	HORIZONTAL

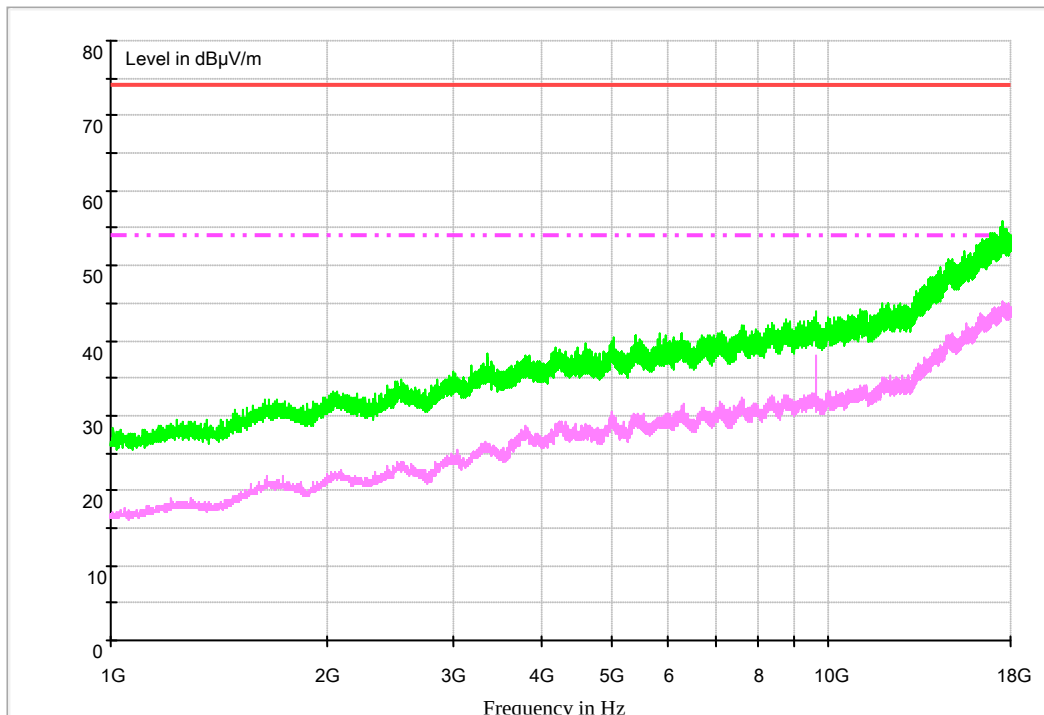
MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	45.5	41.1	54.0	8.5	100.0	314.0	HORIZONTAL

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).

FCC CLASS B RE 1GHz-18GHz



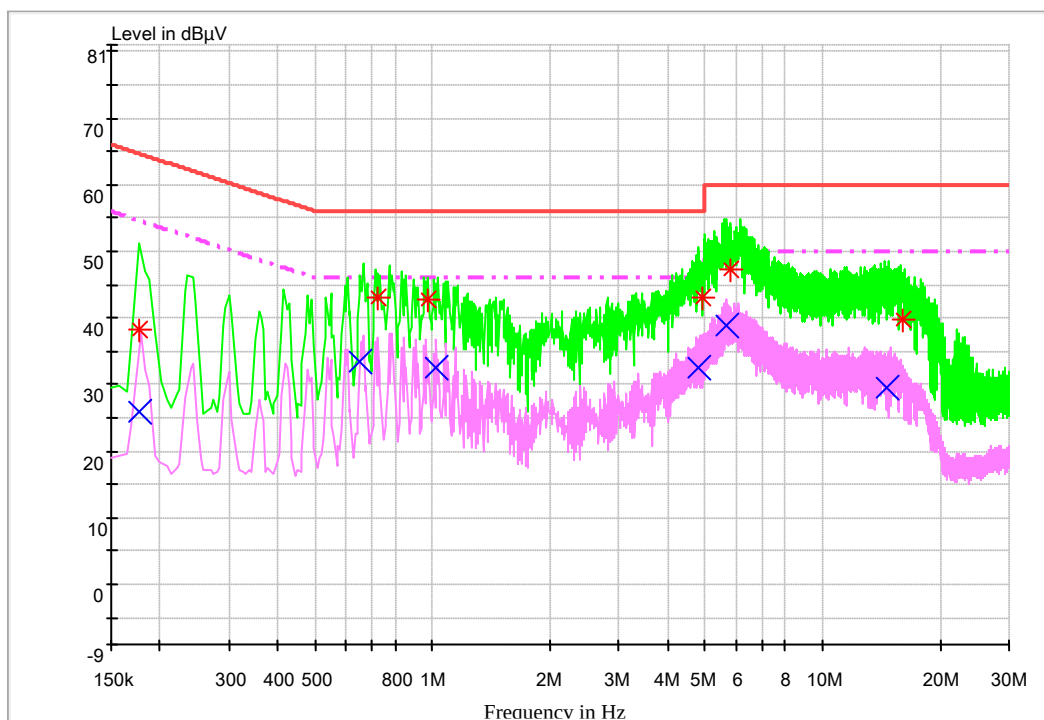


Appendix H: Conducted Emission at Power Port

Note: RBW = 9 kHz, VBW = 30 kHz

Channel 39

CLASS B Voltage with ENV216



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.177157	38.1	9.7	64.6	26.5	N	FLO
0.727212	43.1	9.7	56.0	12.9	N	FLO
0.969124	42.8	9.7	56.0	13.2	N	FLO
4.930766	43.0	9.8	56.0	13.0	L1	FLO
5.772045	47.3	9.8	60.0	12.7	N	FLO
15.937646	39.7	10.0	60.0	20.3	L1	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.176682	25.9	9.7	54.6	28.7	L1	FLO
0.650264	33.5	9.7	46.0	12.5	N	FLO
1.024462	32.5	9.7	46.0	13.5	N	FLO
4.781808	32.7	9.8	46.0	13.3	N	FLO
5.653942	38.8	9.8	50.0	11.2	N	FLO
14.637585	29.5	10.1	50.0	20.5	N	FLO

END