



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_Ch0	L	2402	0.72	pass
TM1_Ch19	M	2440	0.71	pass
TM1_Ch39	H	2480	0.71	pass



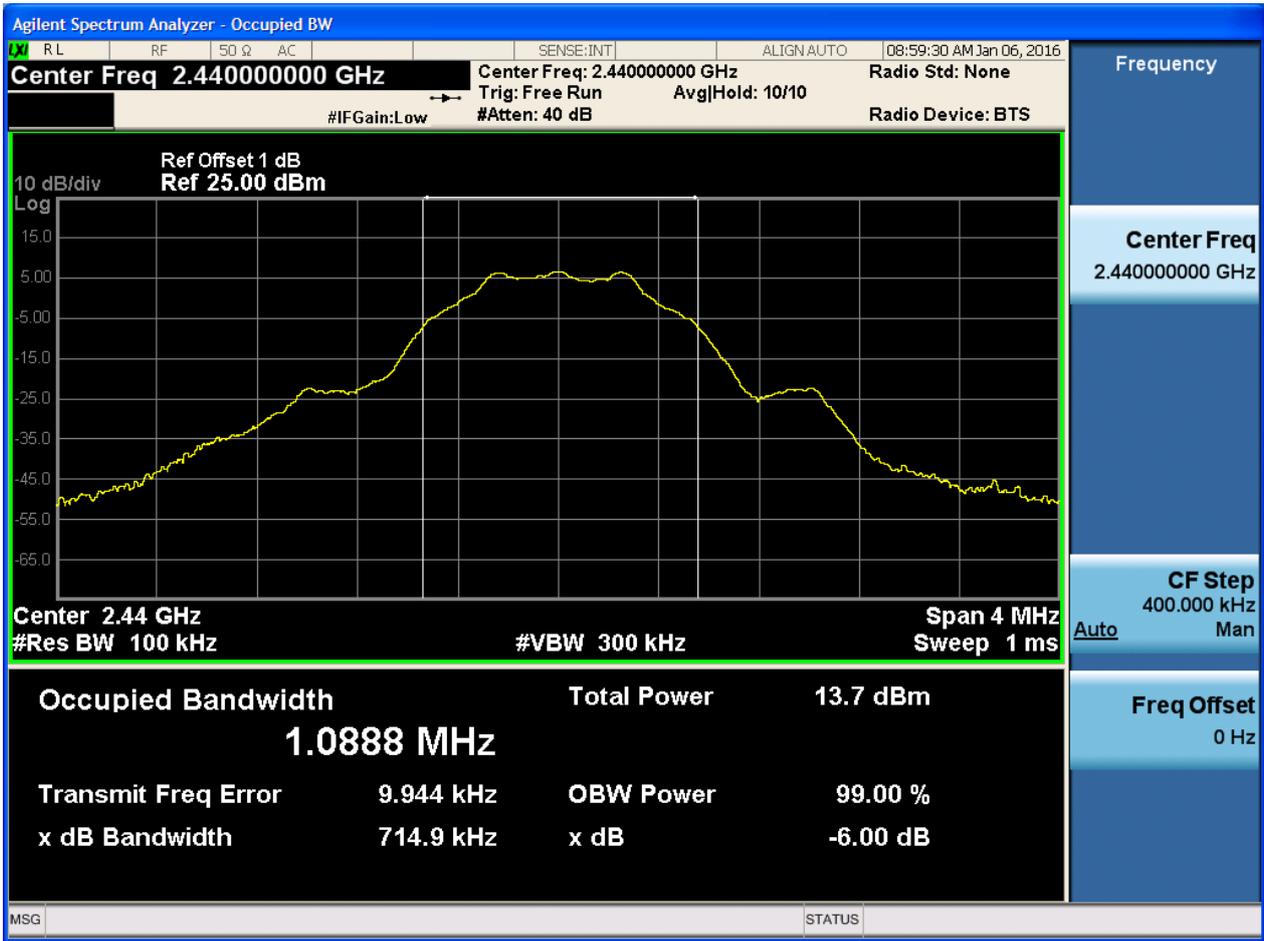
Part II - Test Plots

2.1 TM1_Ch0_L



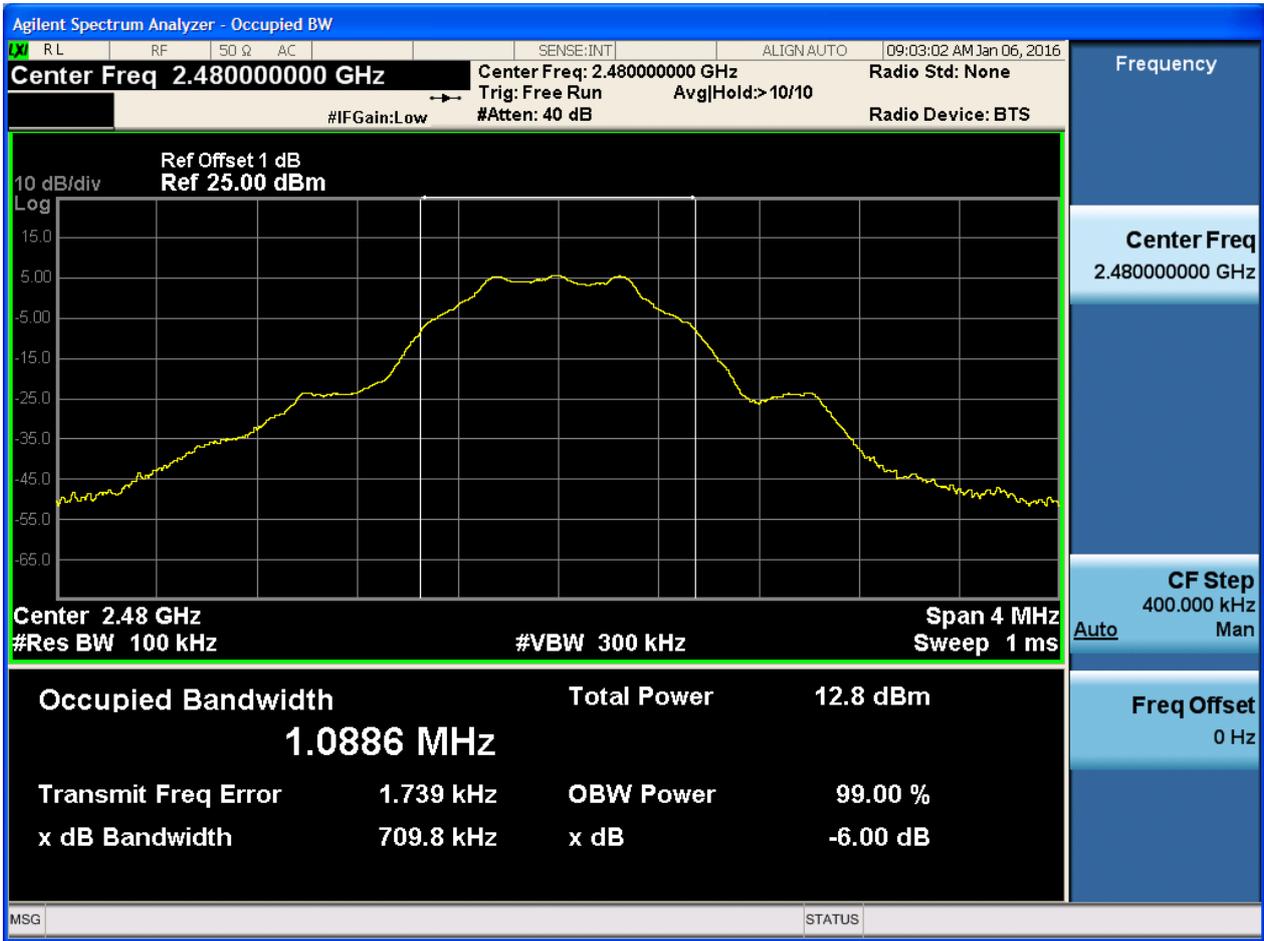


2.2 TM1_Ch19_M





2.3 TM1_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_Ch0	L	2402	1.06	pass
TM1_Ch19	M	2440	1.06	pass
TM1_Ch39	H	2480	1.07	pass

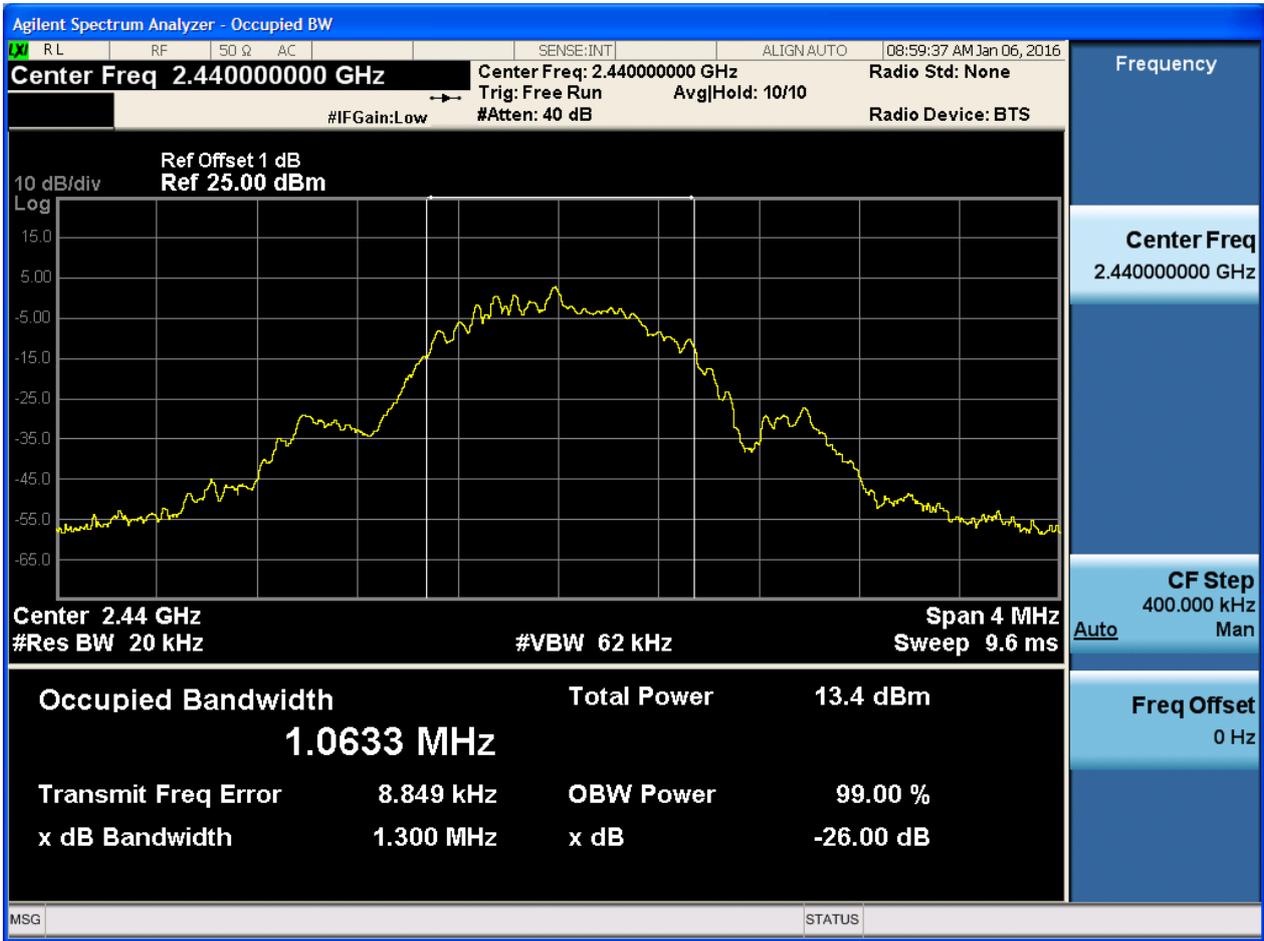
Part II - Test Plots

2.1 TM1_Ch0_L



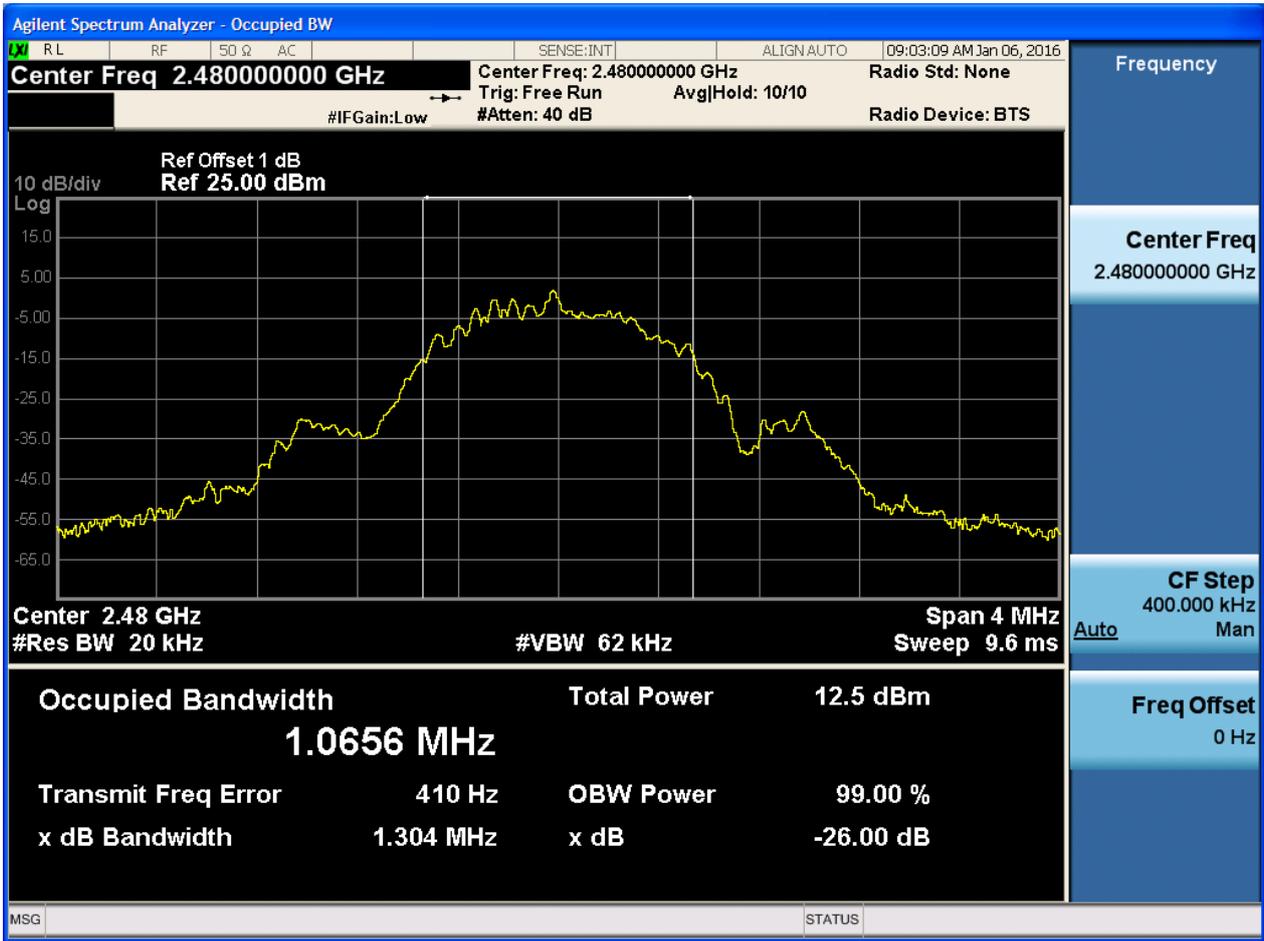


2.2 TM1_Ch19_M





2.3 TM1_Ch39_H





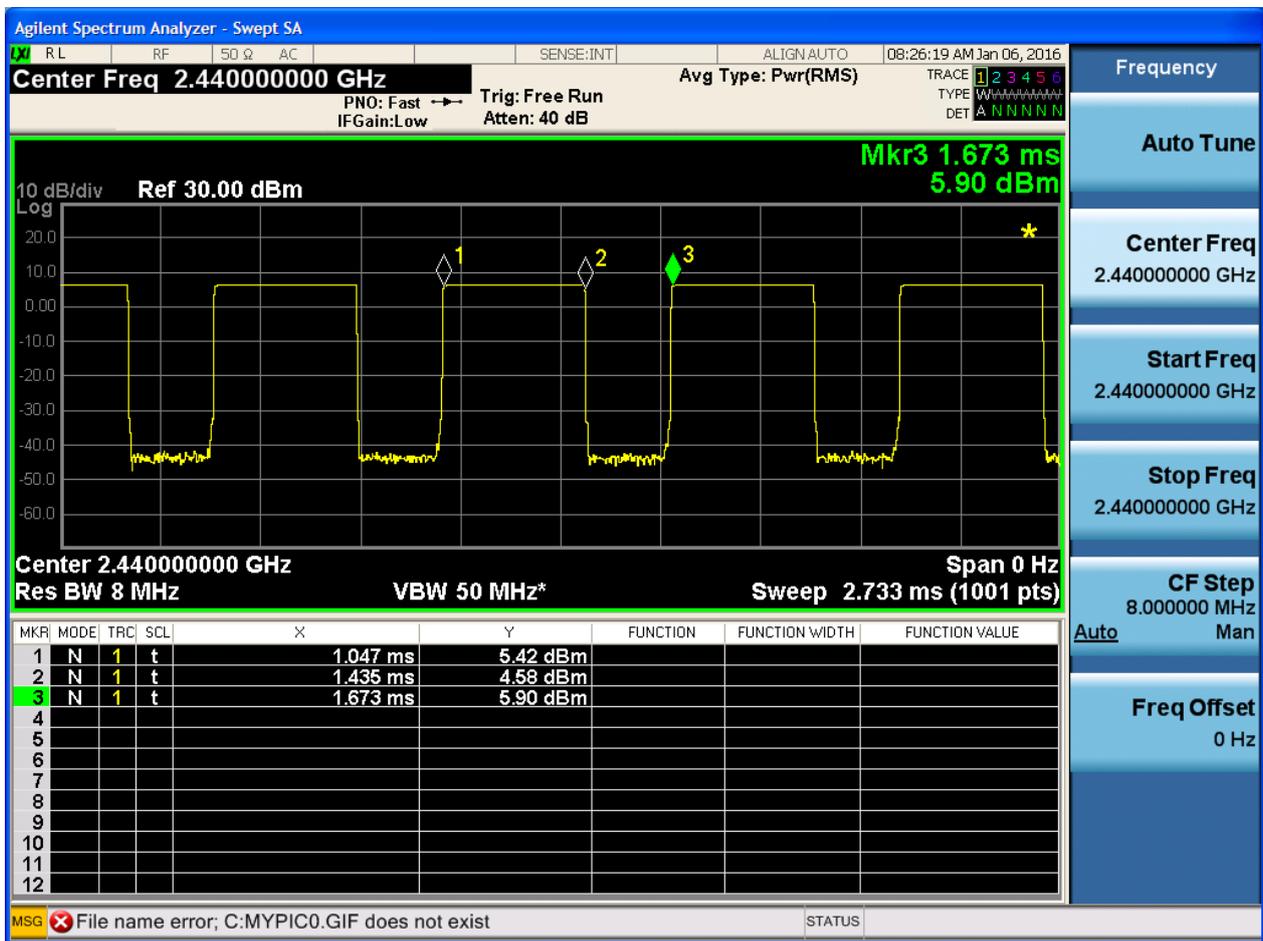
Appendix C: Duty Cycle

Part I - Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
TM1	CH0,CH19,CH39	62

Part II - Test Plots

2.1 TM1





Appendix D: Maximum Conducted Average Output Power

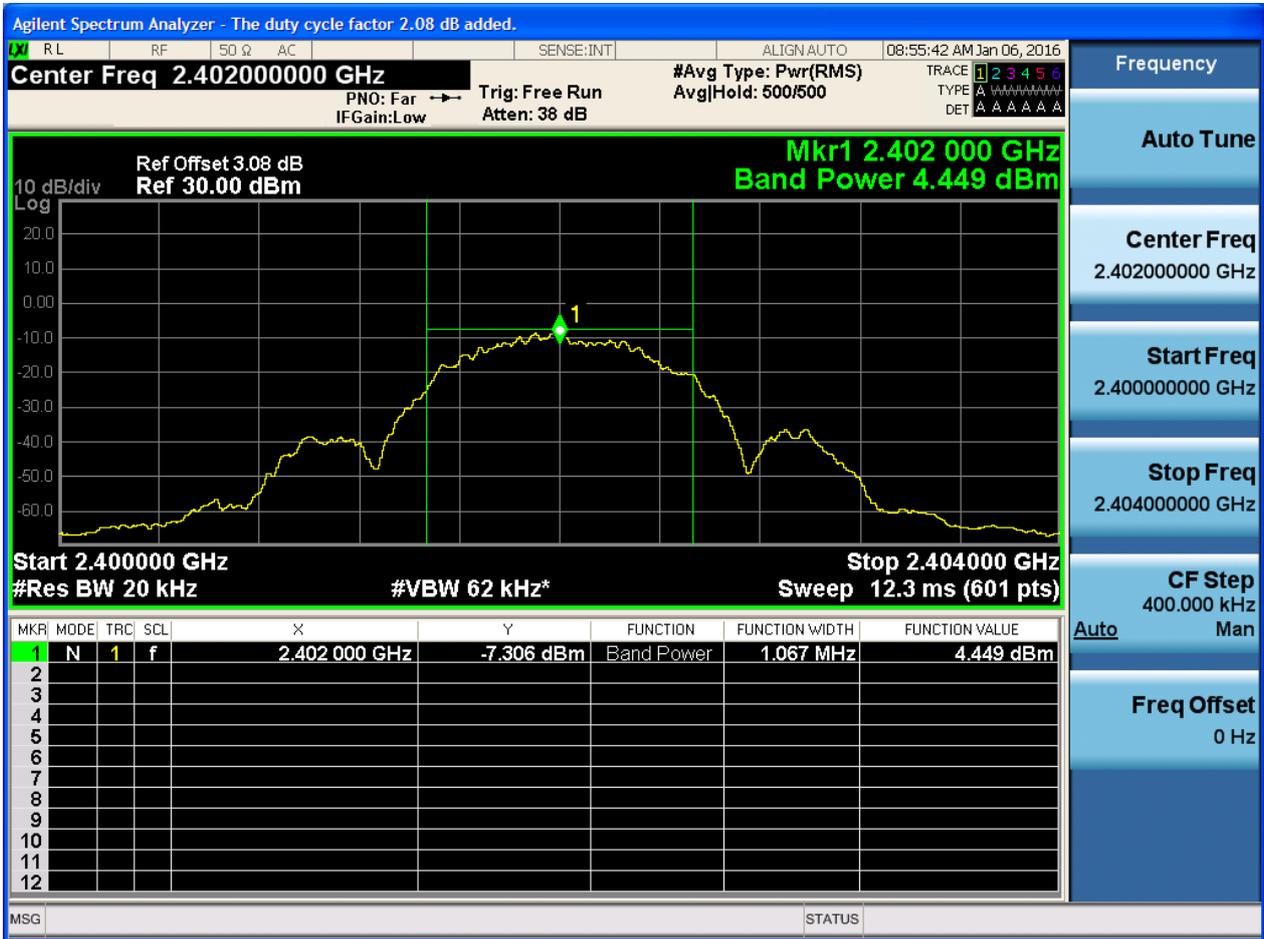
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Duty Cycle [%]	Power[dBm]	Verdict
TM1 _Ch0	L	2402	62	4.45	pass
TM1 _Ch19	M	2440	62	7.20	pass
TM1 _Ch39	H	2480	62	6.16	pass



Part II - Test Plots

2.1 TM1_Ch0_L





2.2 TM1_Ch19_M





2.3 TM1_Ch39_H





Appendix E: Maximum Power Spectral Density Level

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Duty Cycle [%]	PD[MHz]	Verdict
TM1 _Ch0	L	2402	62	-9.38	pass
TM1 _Ch19	M	2440	62	-6.95	pass
TM1 _Ch39	H	2480	62	-8.05	pass



Part II - Test Plots

2.1 TM1_Ch0_L





2.2 TM1_Ch19_M





2.3 TM1_Ch39_H





Appendix F: Band Edges Compliance

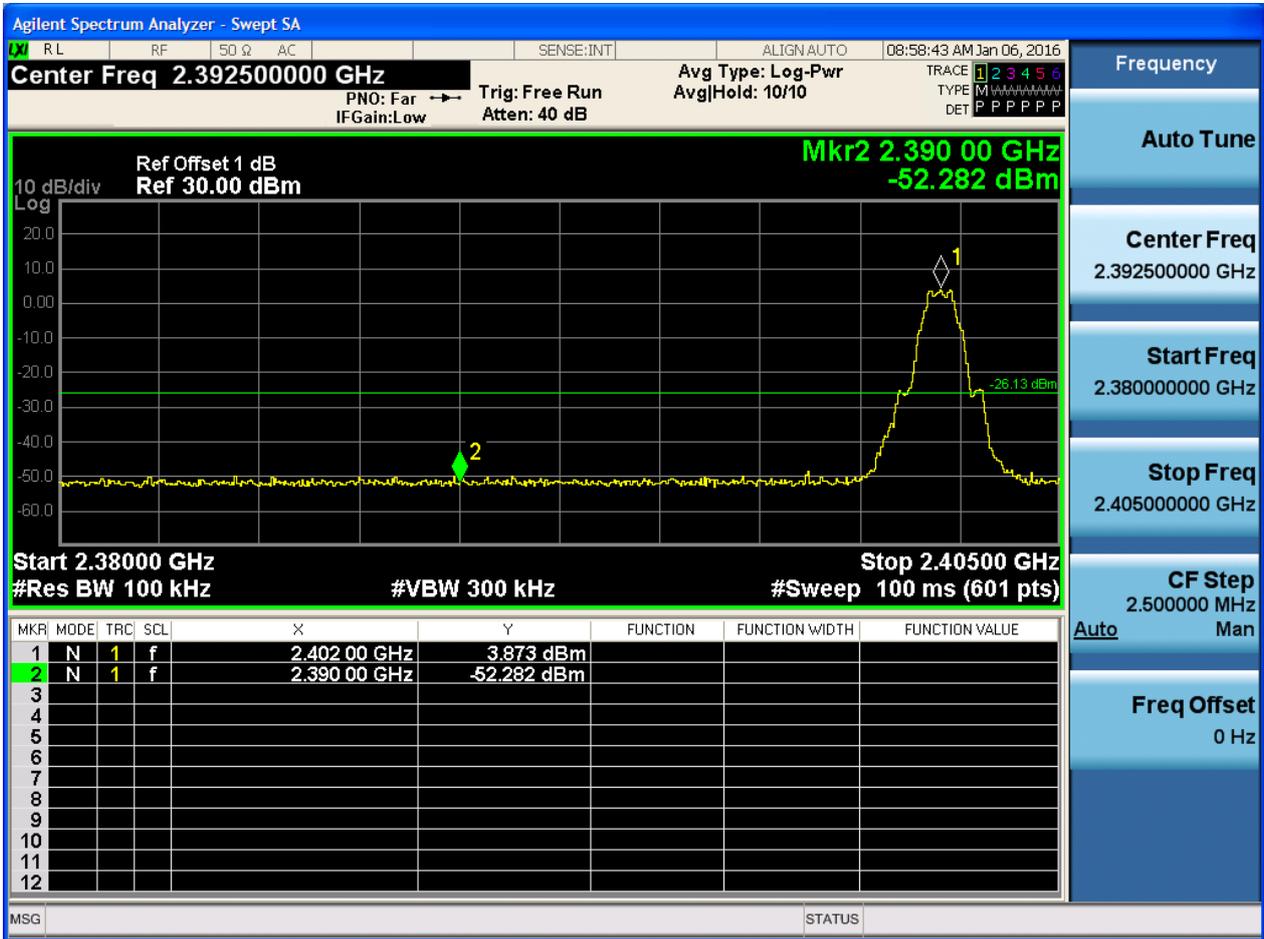
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
TM1_Ch0	L	2402	3.87	-52.28	pass
TM1_Ch39	H	2480	5.56	-51.90	pass



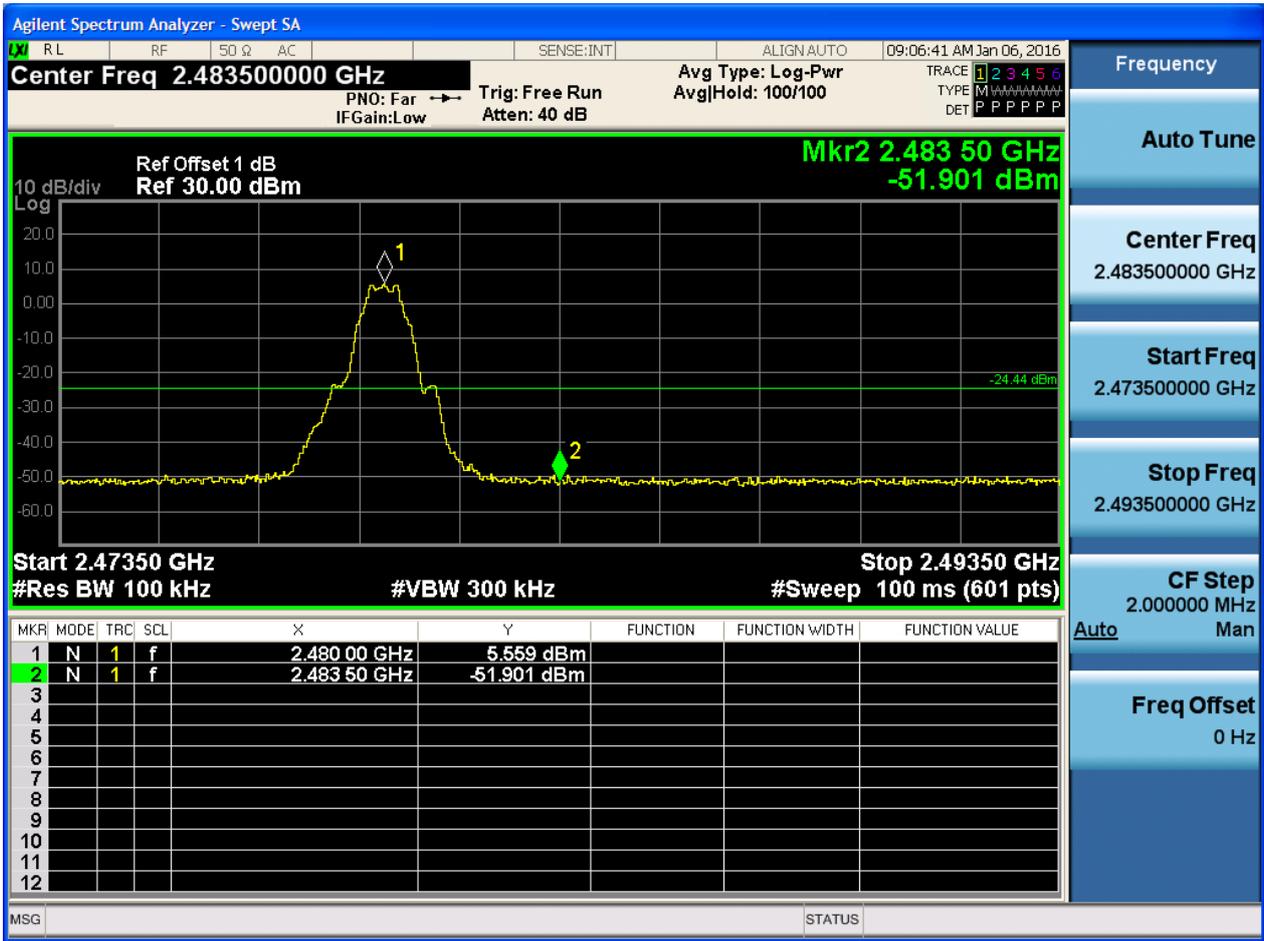
Part II - Test Plots

2.1 TM1_Ch0_L





2.2 TM1_Ch39_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]	Pref[dBm]	Puw[dBm]	Verdict
TM1_Ch0	L	2402	3.86	<limit	pass
TM1_Ch19	M	2440	6.52	<limit	pass
TM1_Ch39	H	2480	5.55	<limit	pass



Part II - Test Plots

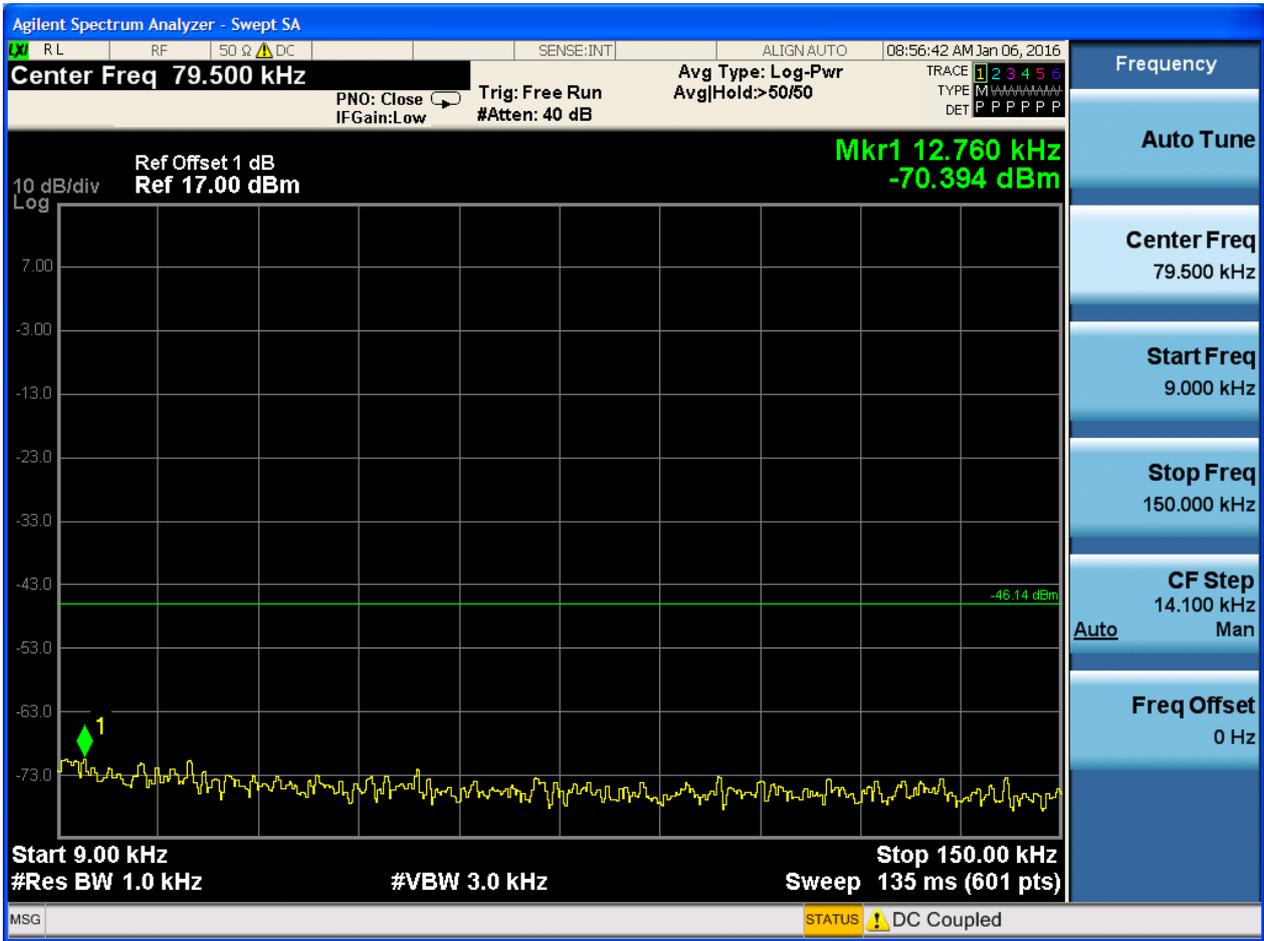
2.1 TM1_Ch0_L

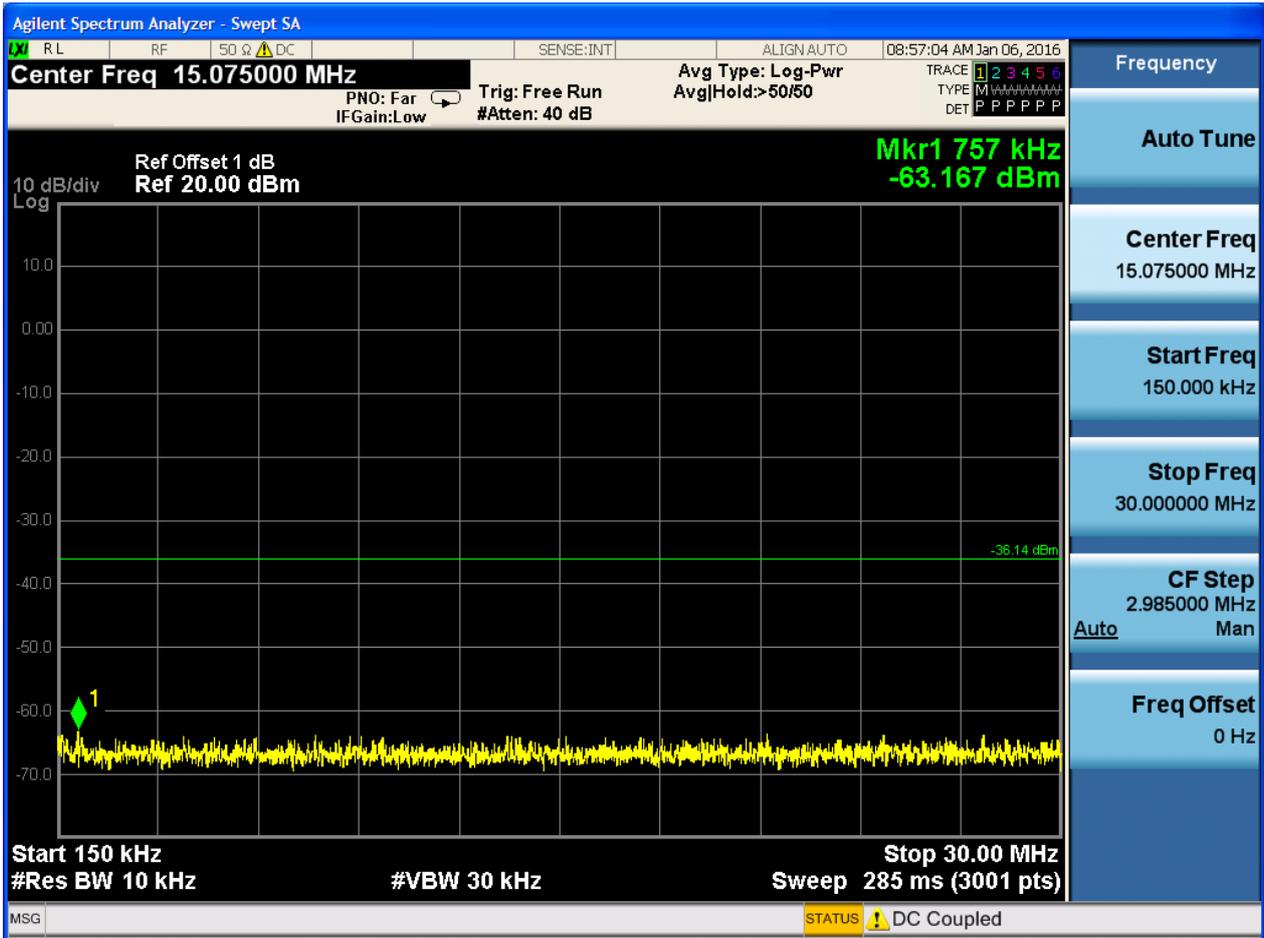
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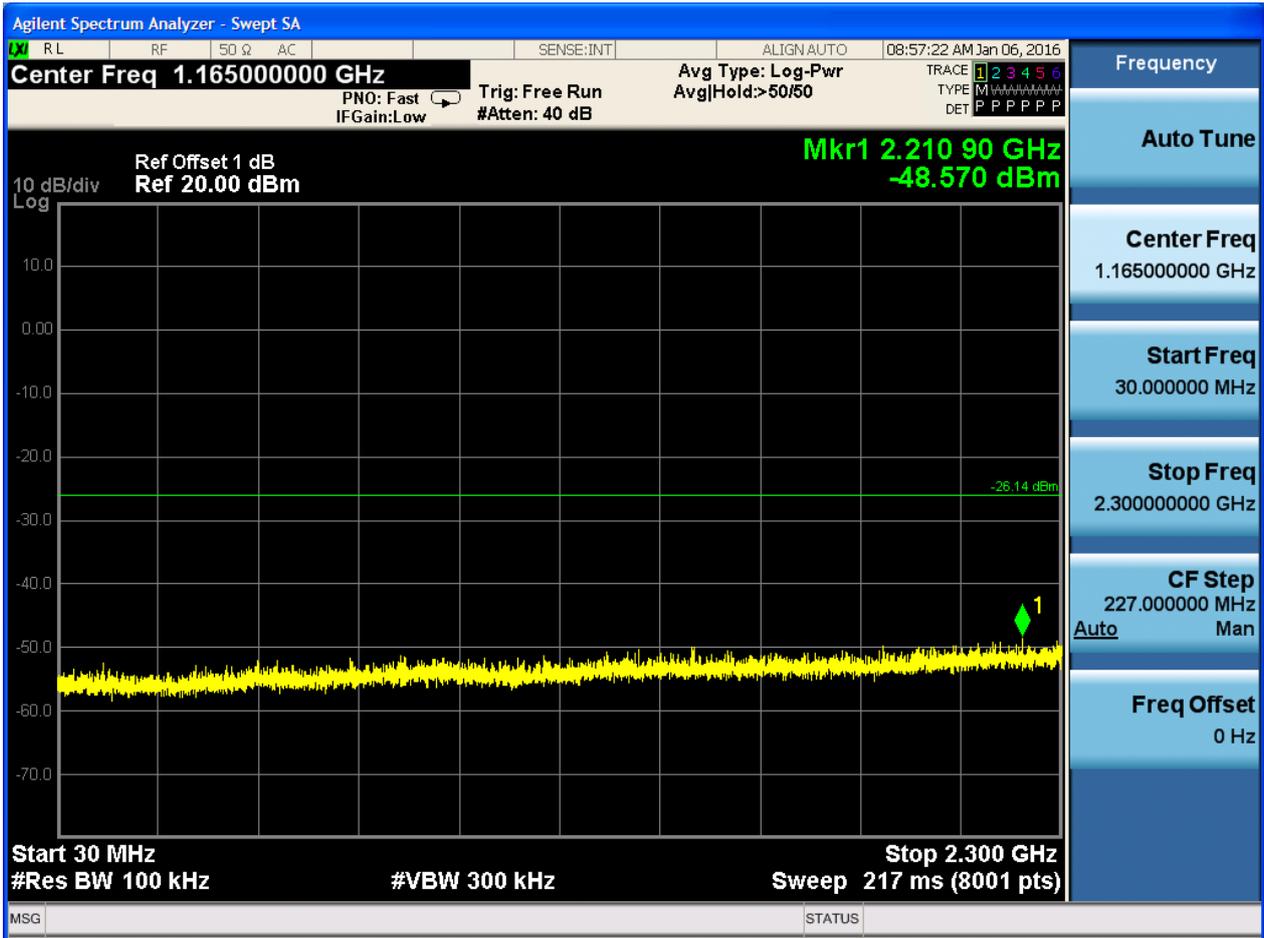


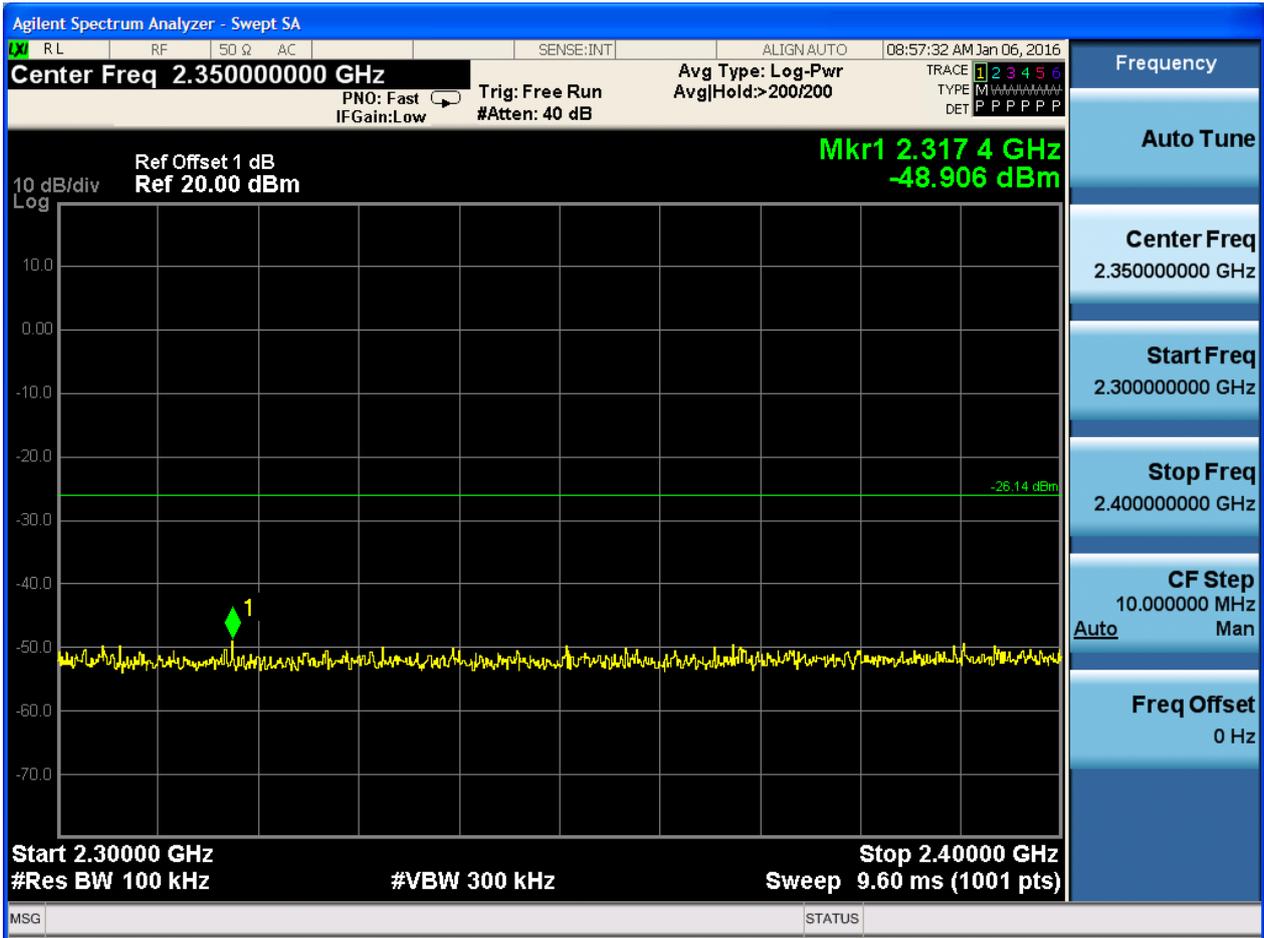


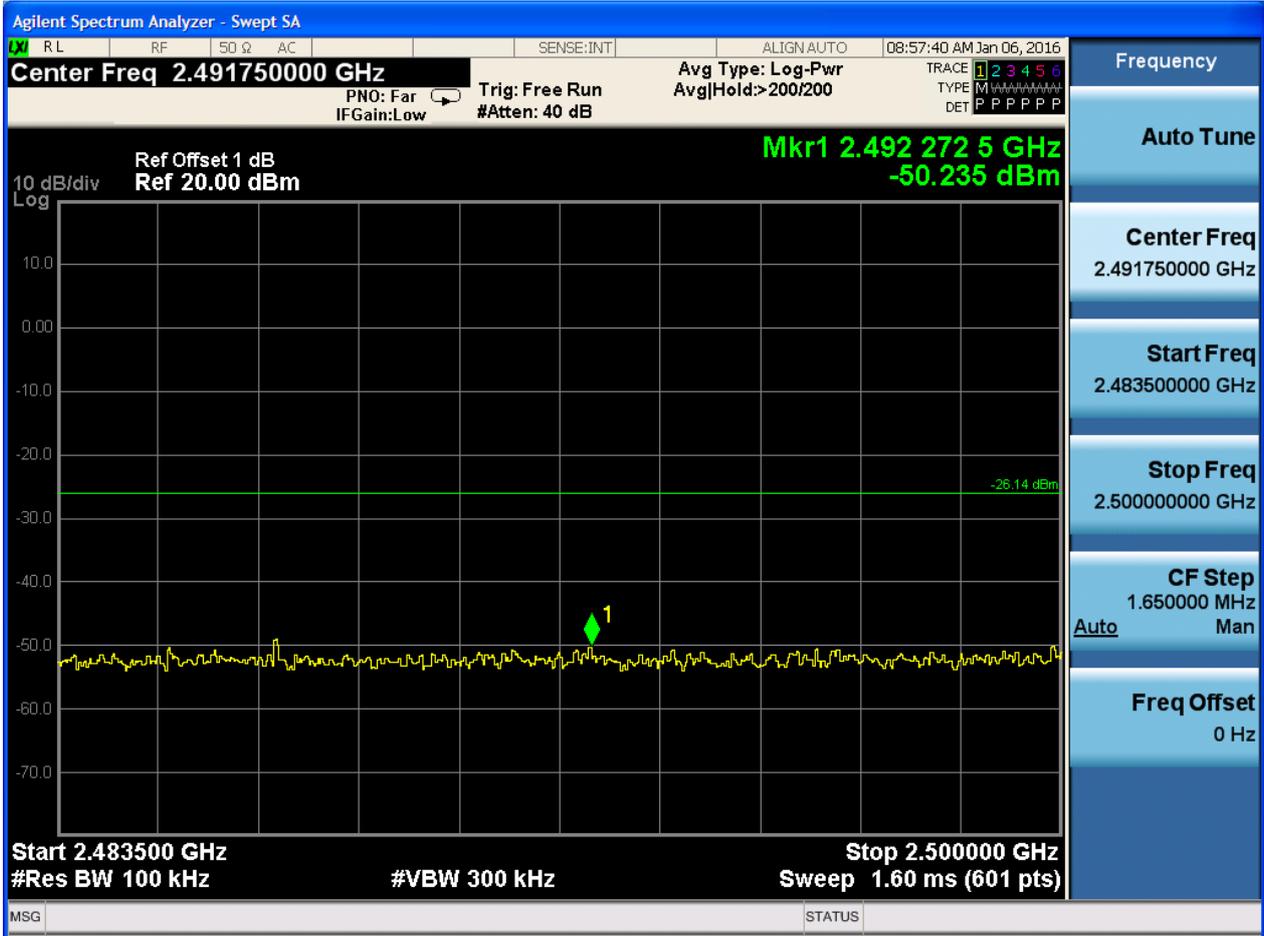
Puw:















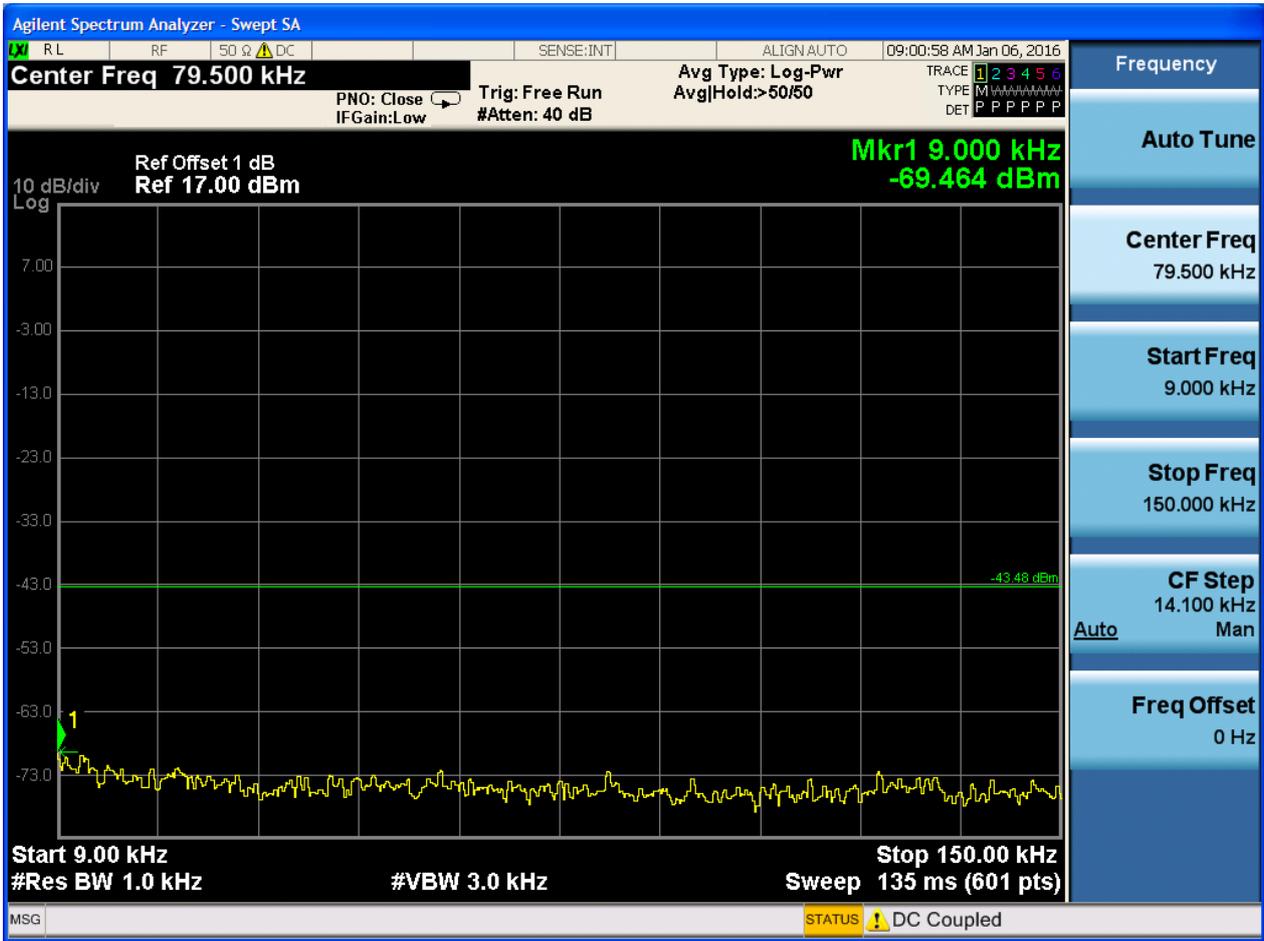
2.2 TM1_Ch19_M

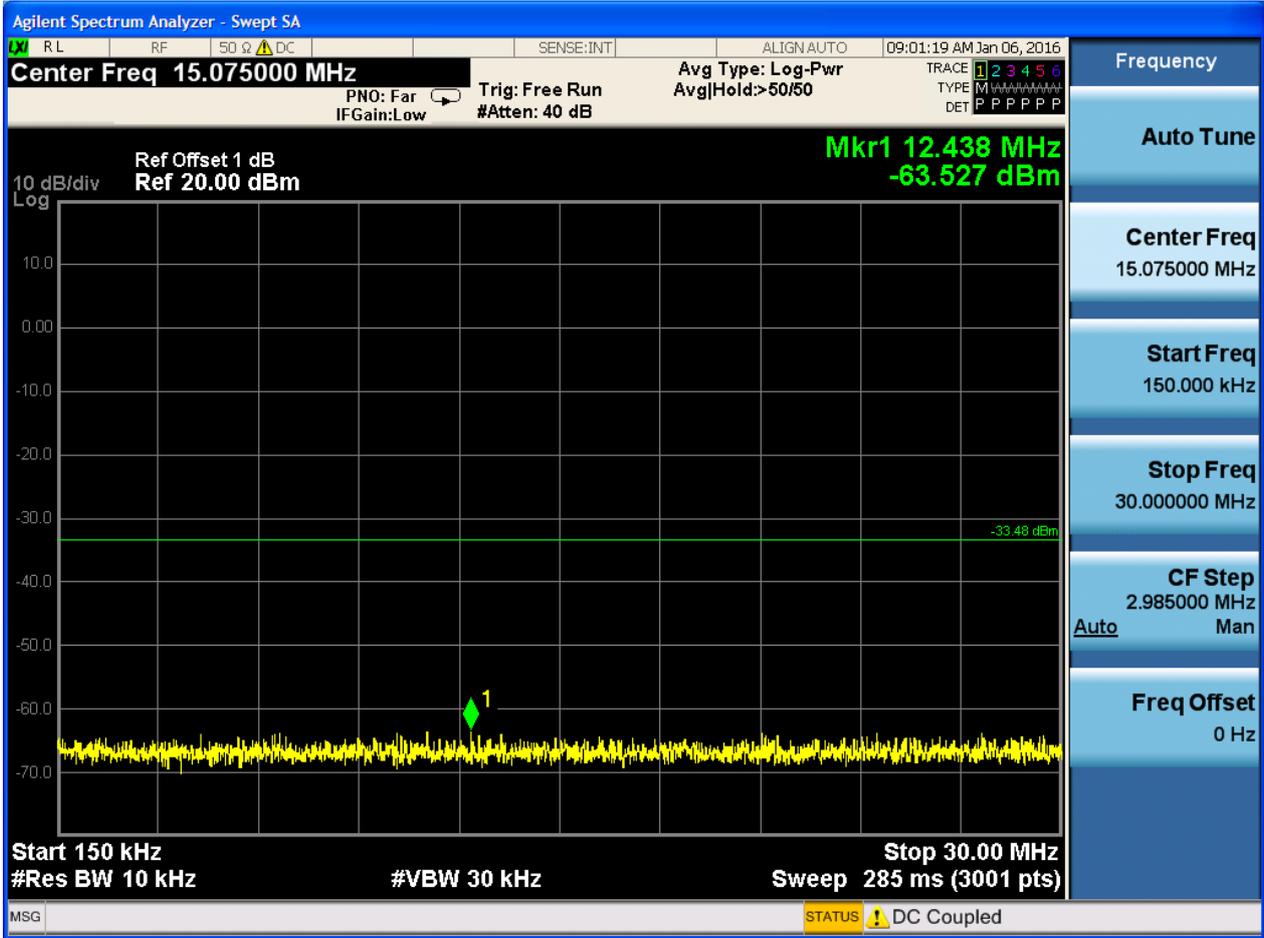
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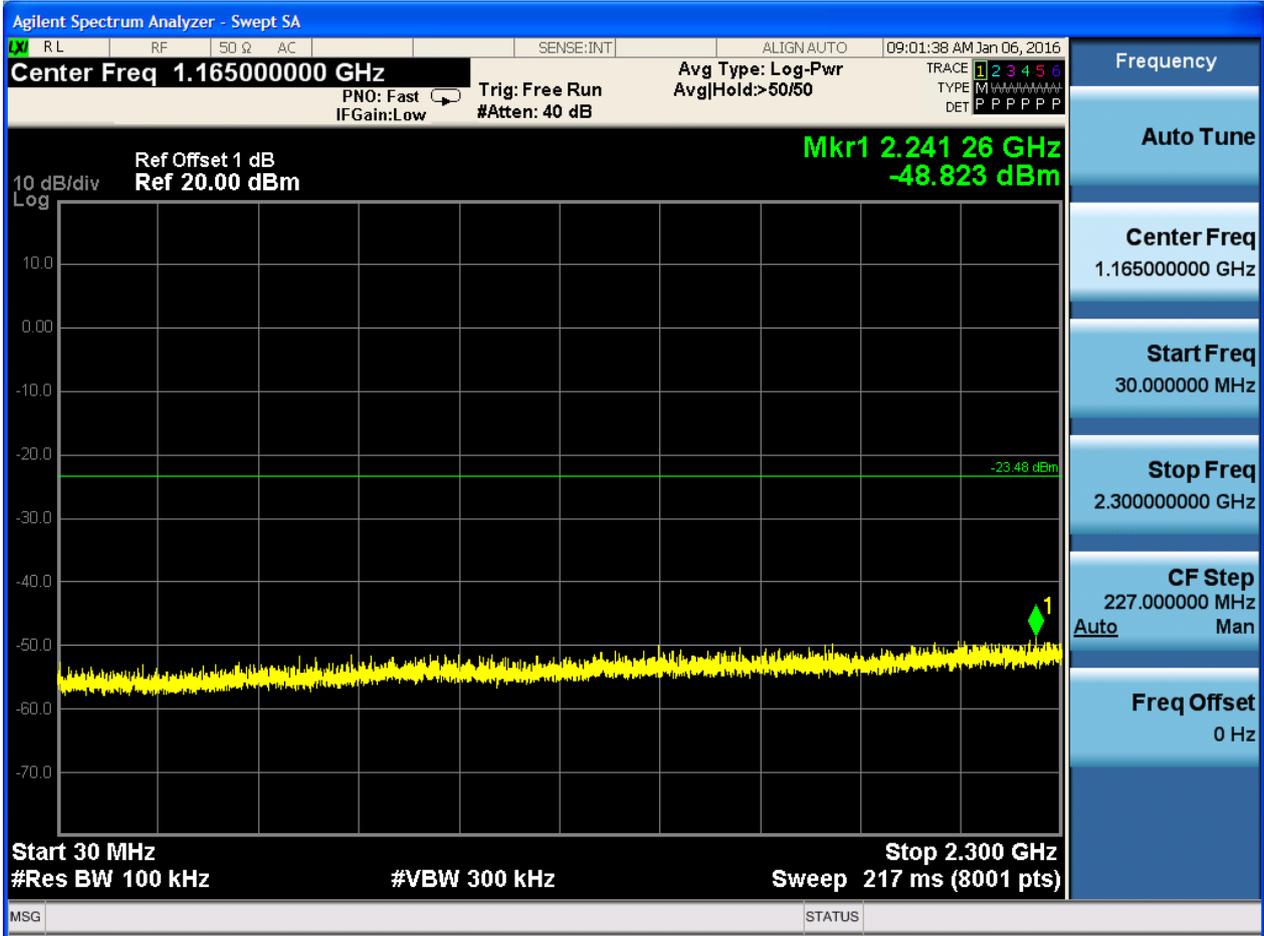


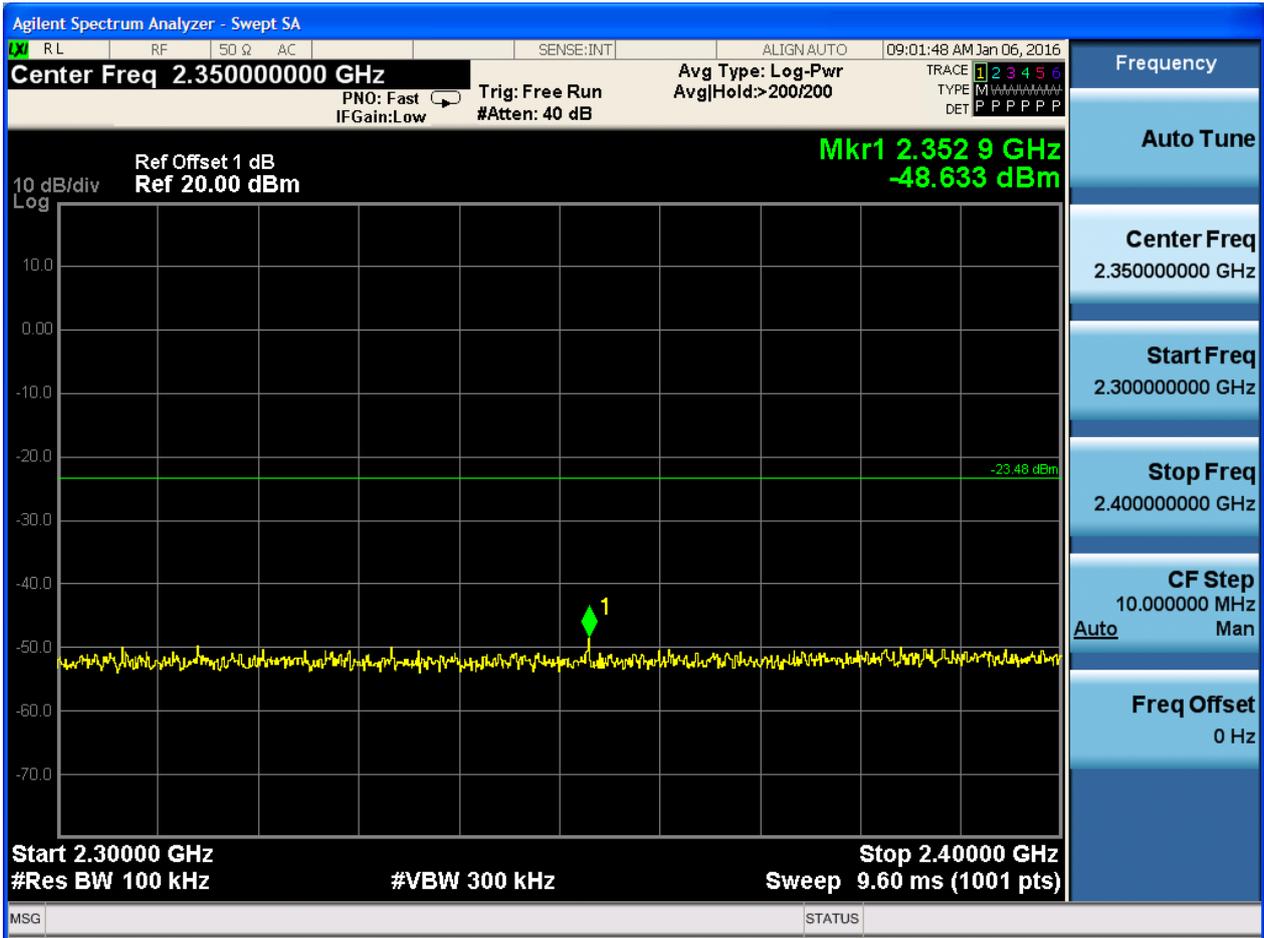


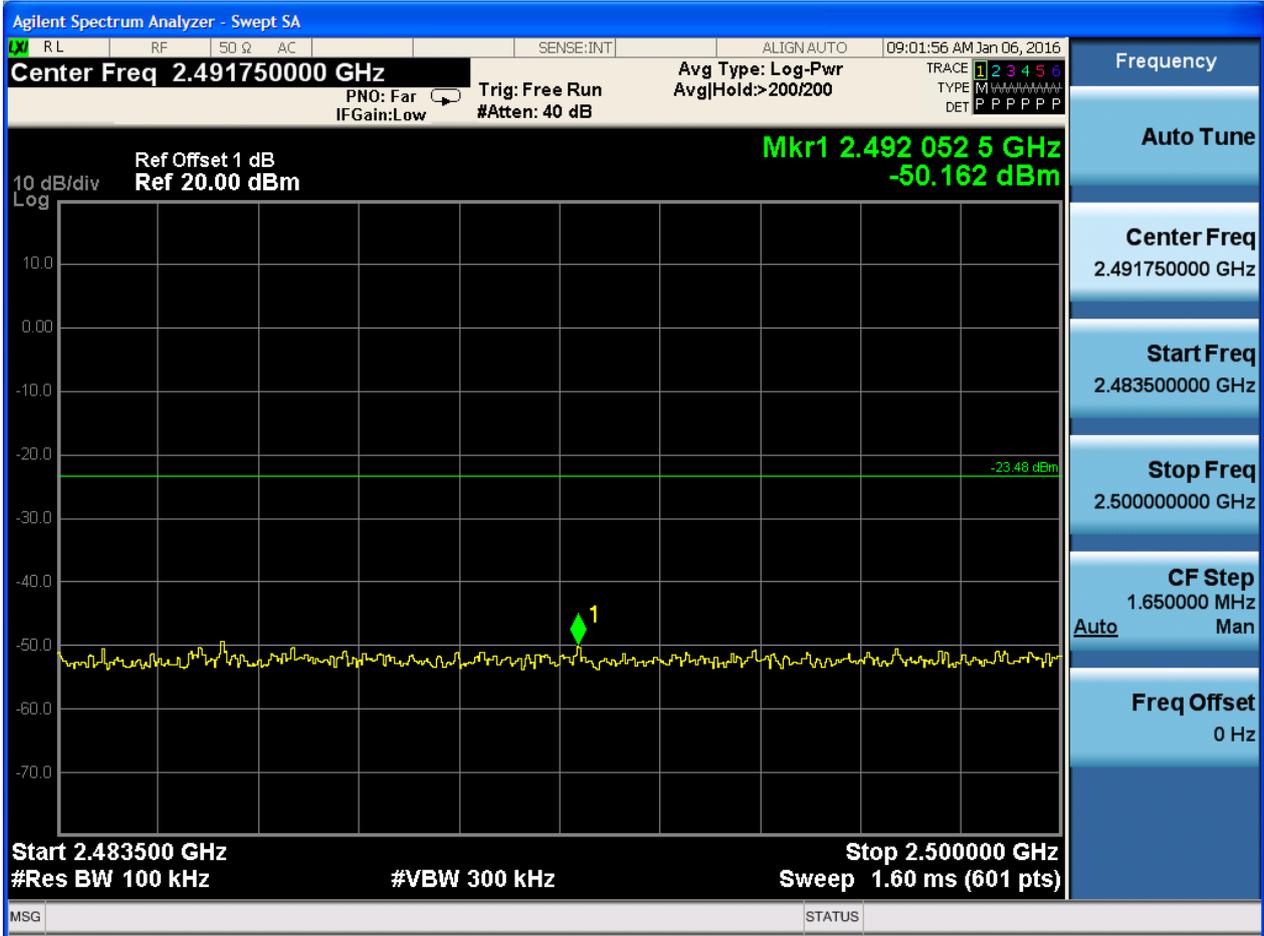
Puw:















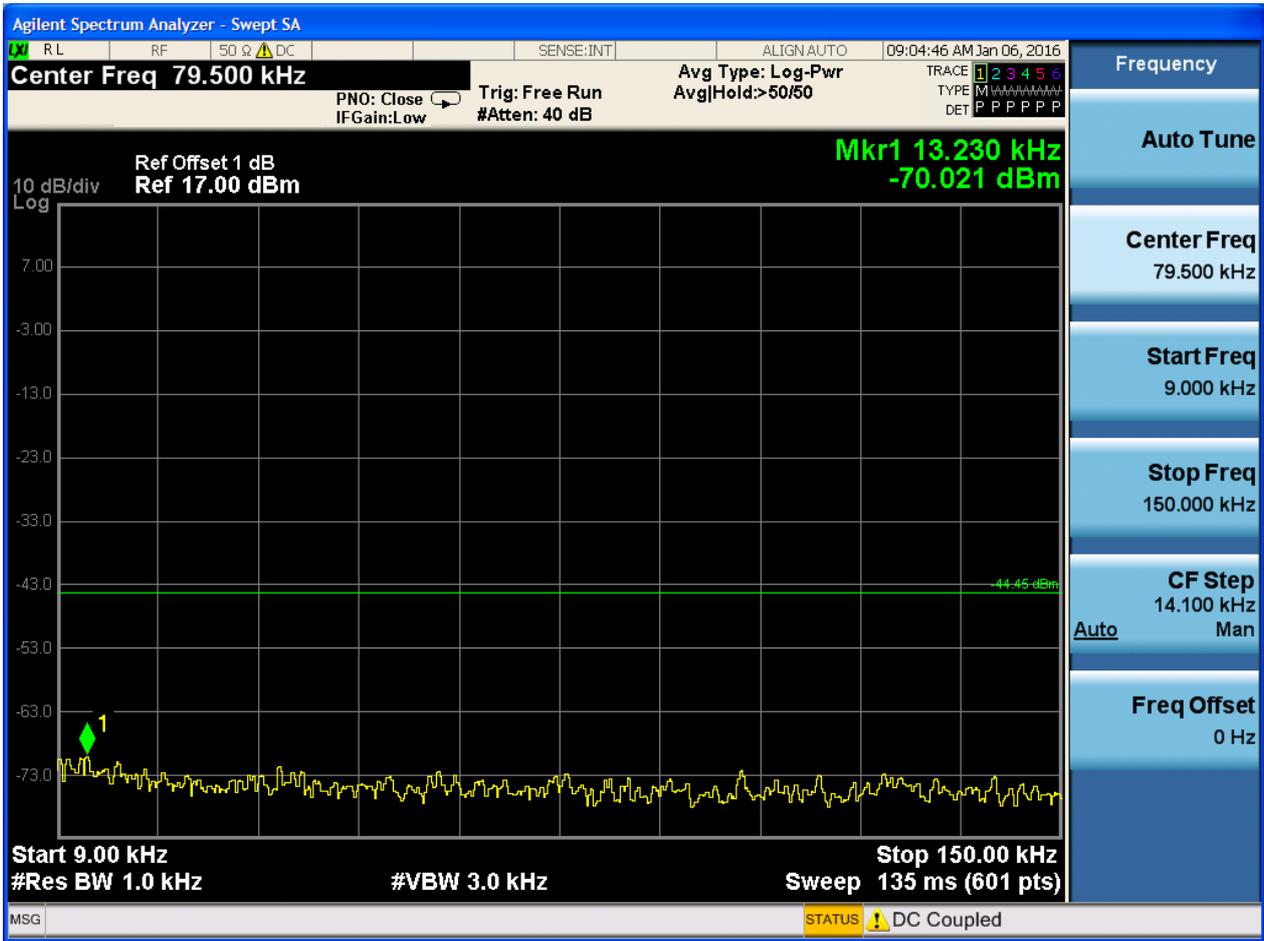
2.3 TM1_Ch39_H

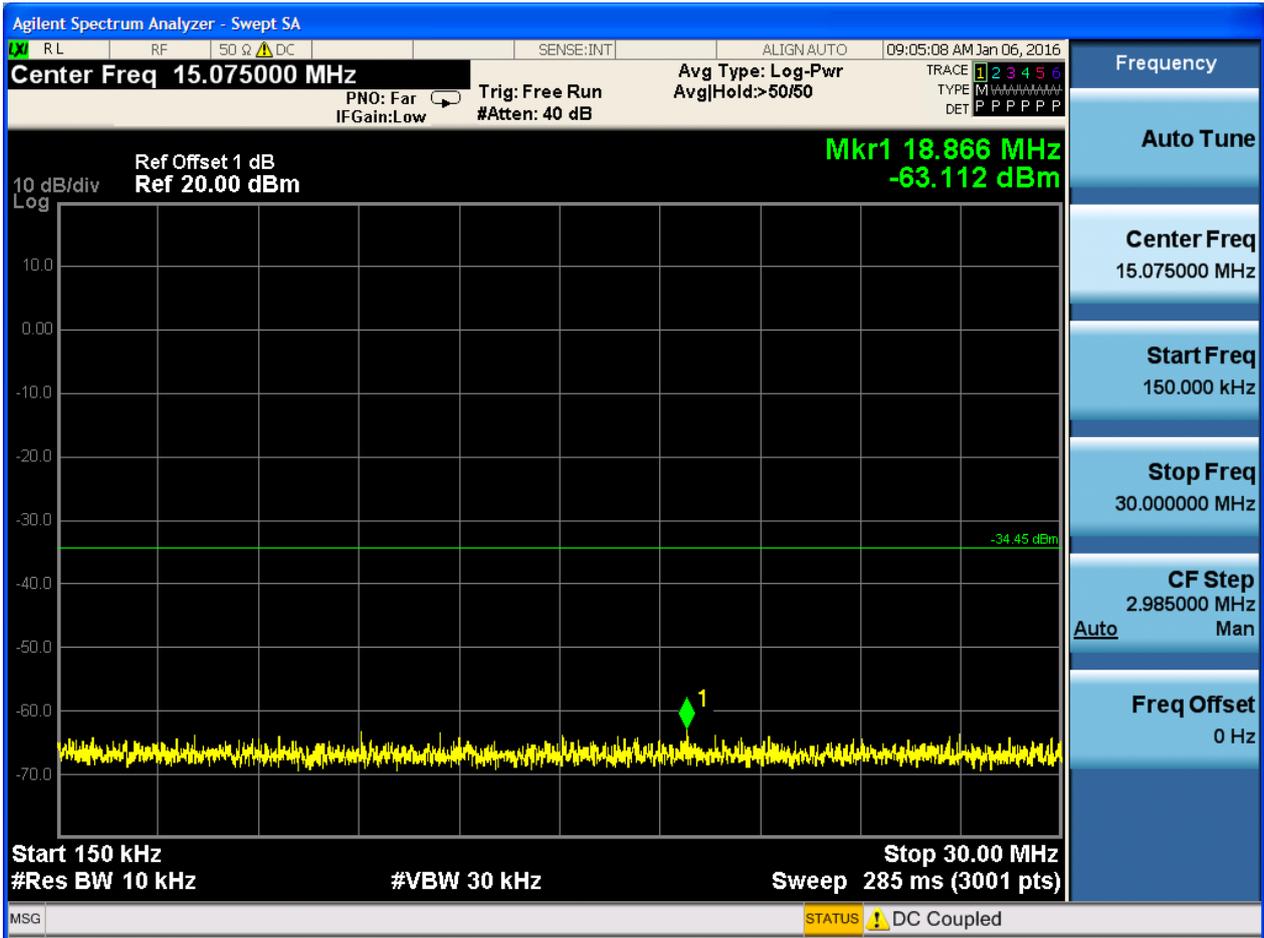
Pref:

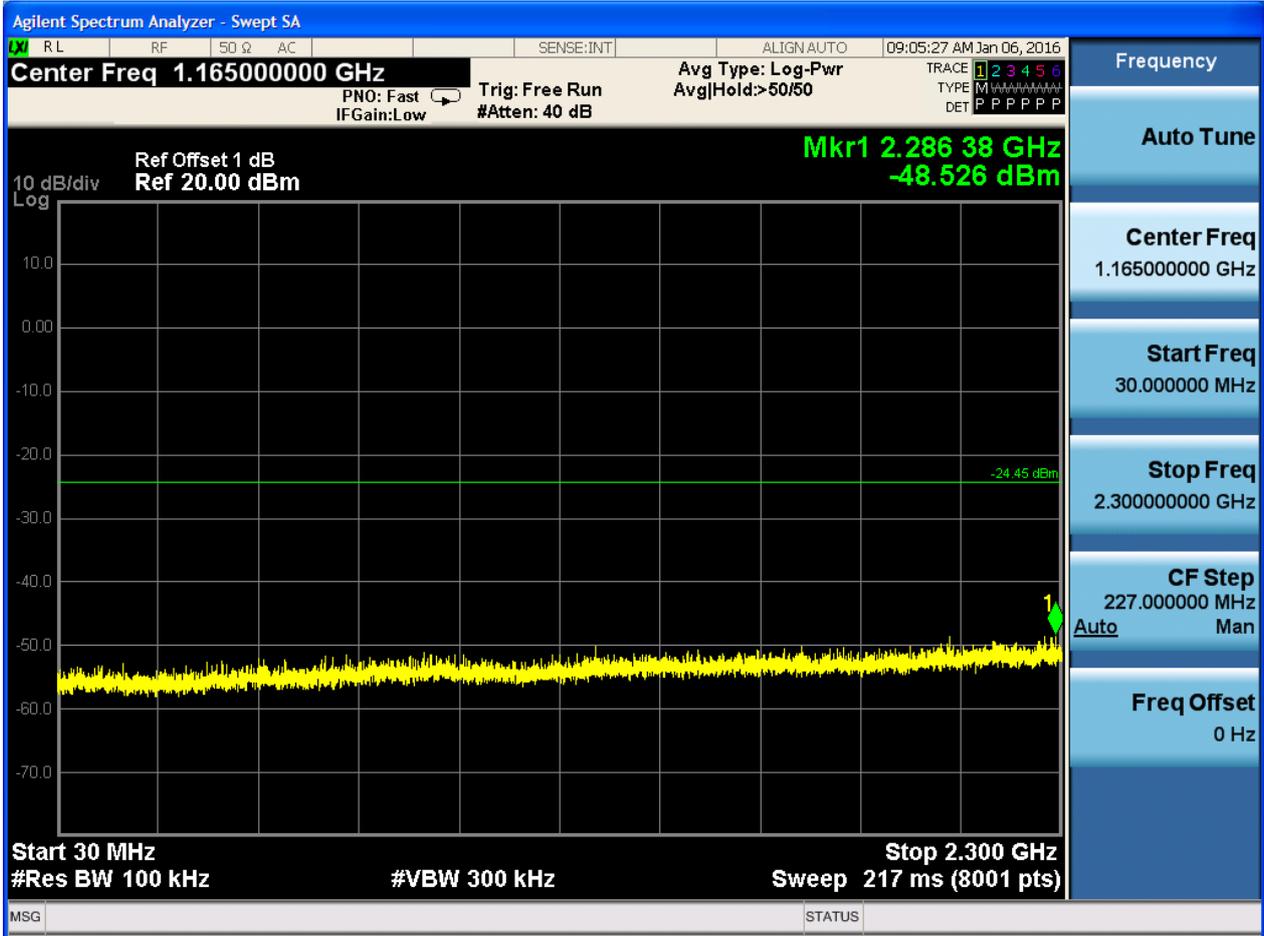


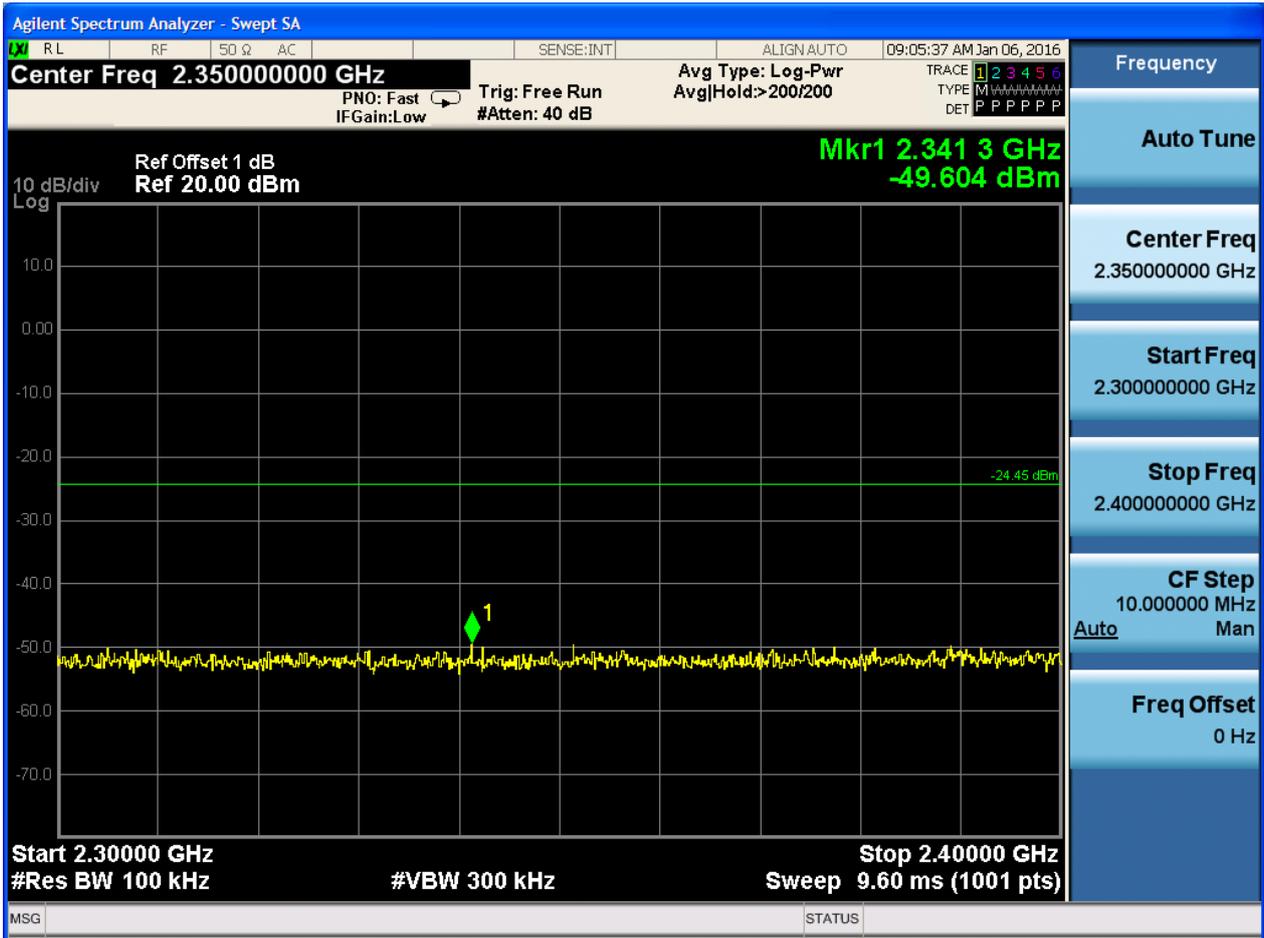


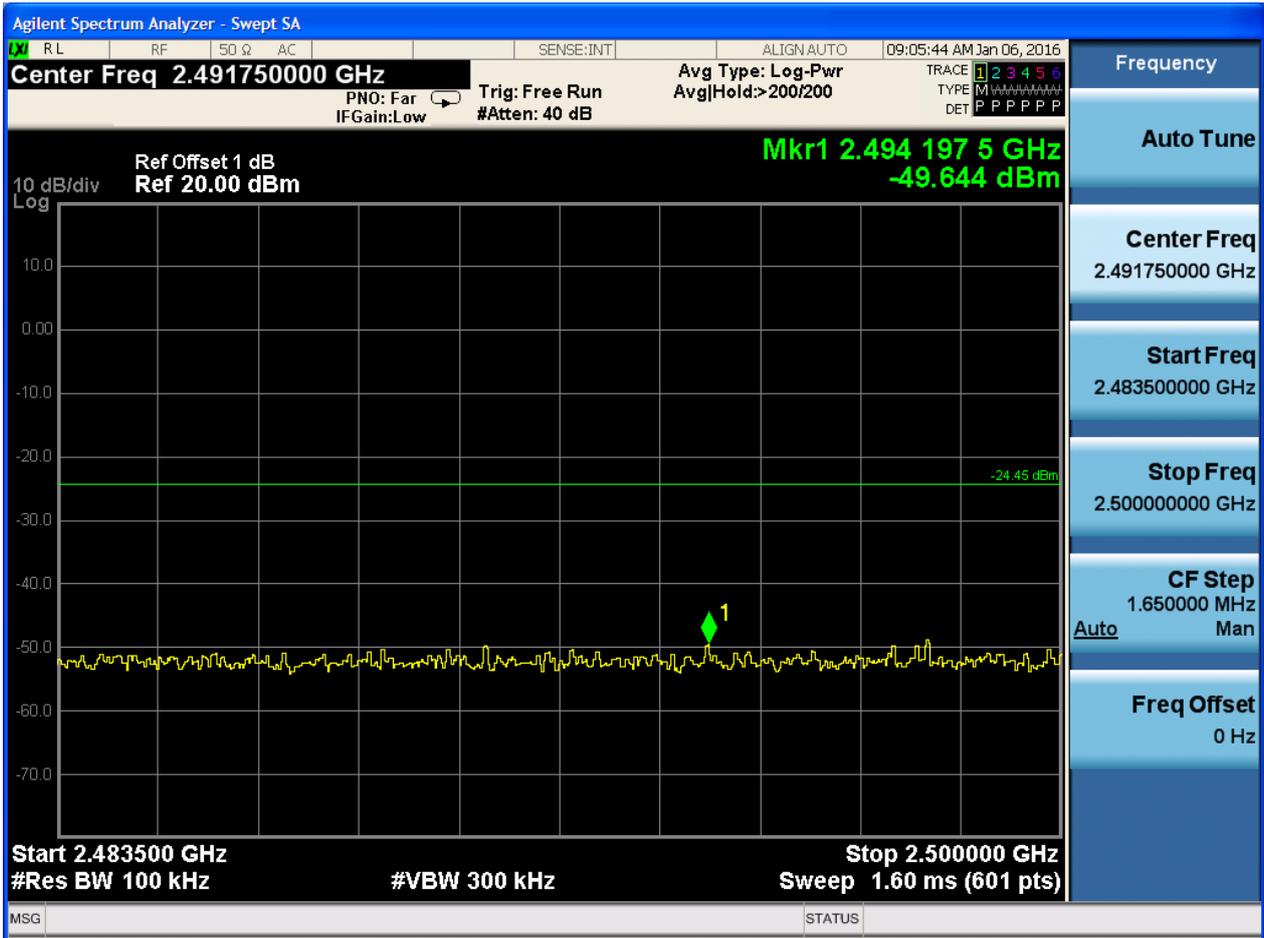
Puw:















Appendix H: Radiated Spurious Emission & Spurious in Restricted Band

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

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

The simultaneous transmission has been considered

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

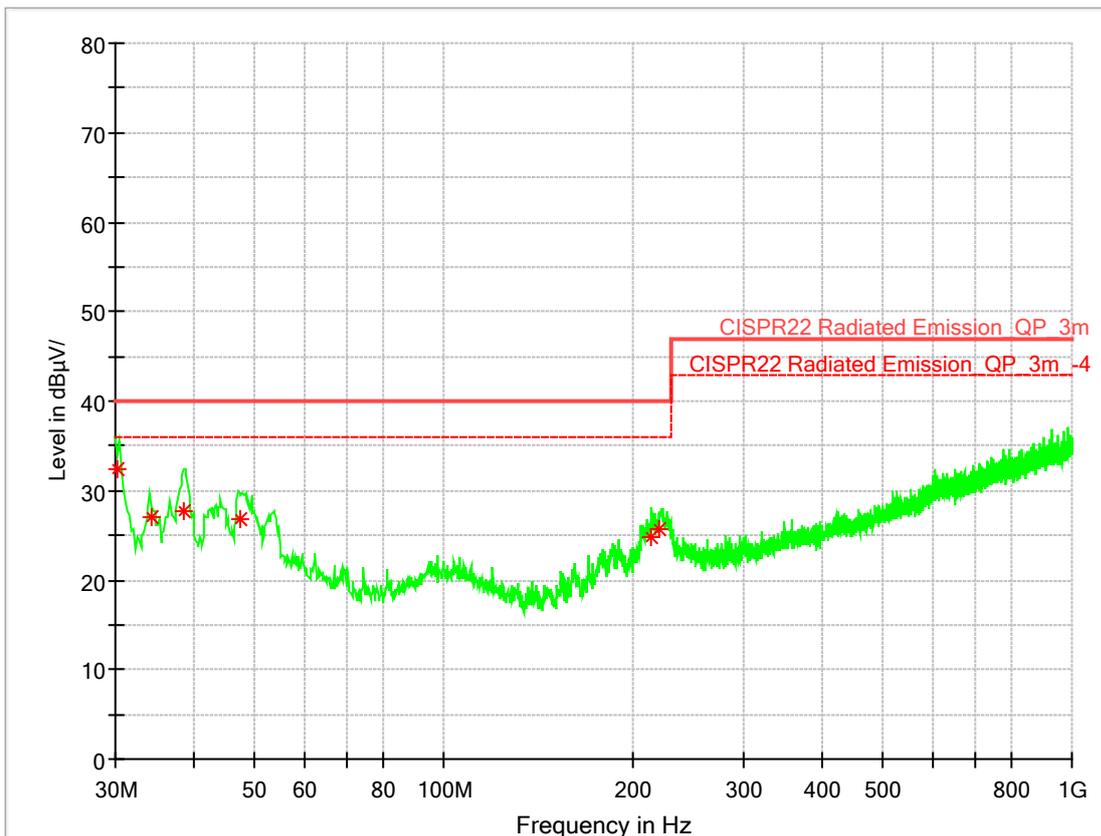
Part 1: Testing Range of “9 kHz to 30MHz”

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)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.312480	32.38	40.00	-7.62	100.0	V	0.0	14.5
34.187760	27.14	40.00	-12.86	167.0	V	272.0	15.0
38.644720	27.82	40.00	-12.18	166.0	V	255.0	15.3
47.479040	26.74	40.00	-13.26	100.0	V	148.0	15.1
214.104400	24.83	40.00	-15.17	142.0	H	224.0	13.0
220.978720	25.66	40.00	-14.34	154.0	H	231.0	13.3

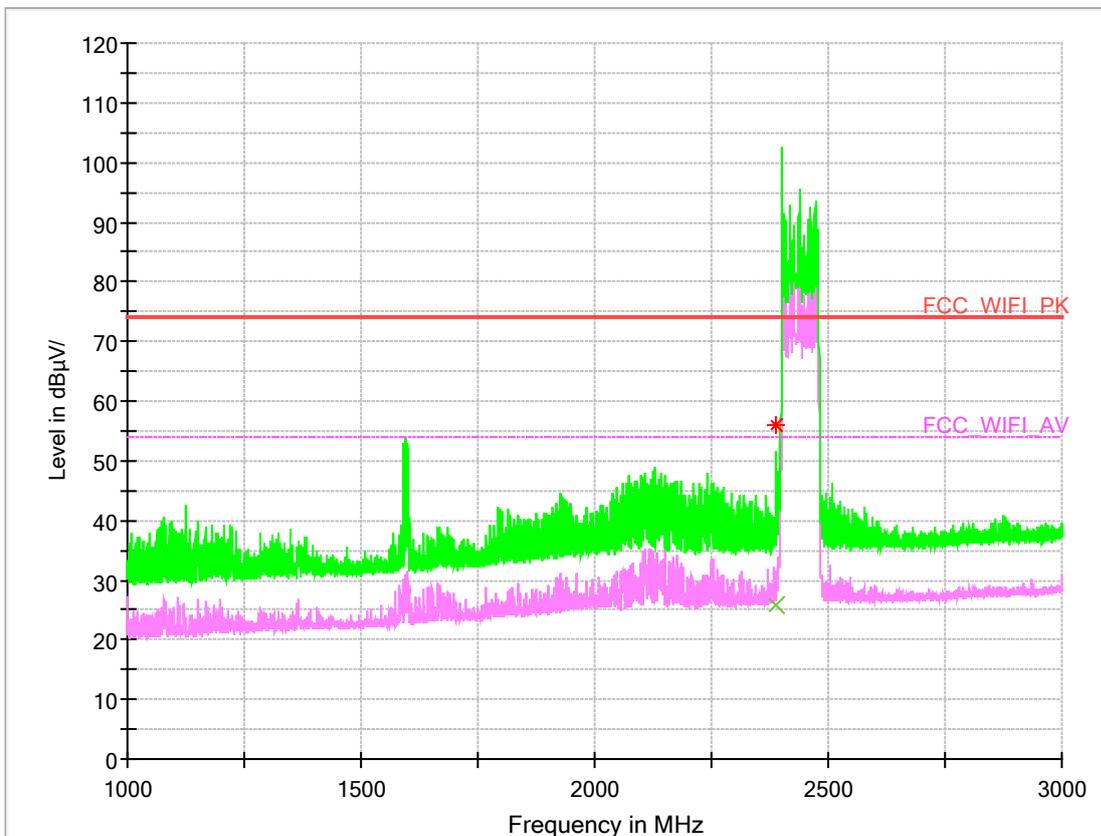
Part 3: Testing Range of “18 GHz to 26.5 GHz”

NOTE1: No peak found in the Test Range of “18 GHz to 26.5GHz”

Part 4: Testing Range of “1GHz to 3GHz”

- 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.

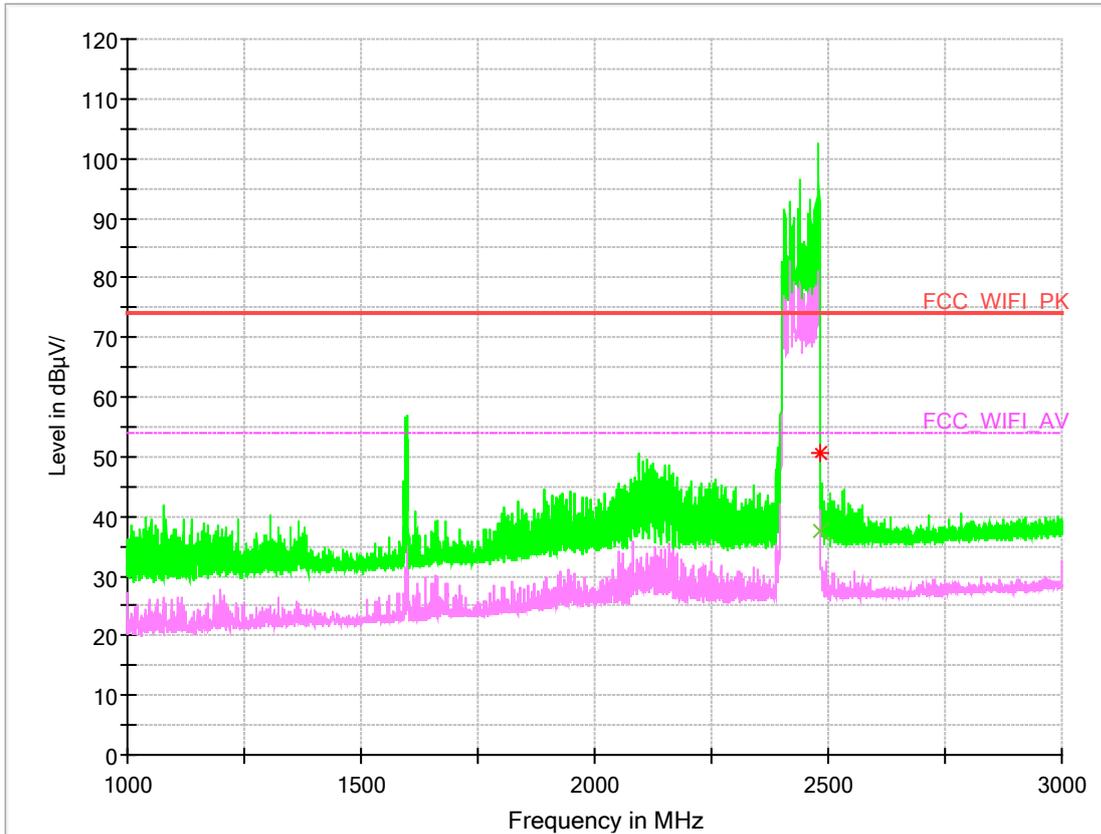
Channel 0



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

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2390.000000	---	25.78	54.00	-28.22	155.0	V	343.0	-7.9
2390.000000	55.86	---	74.00	-18.14	100.0	H	88.0	-7.8

Channel 39

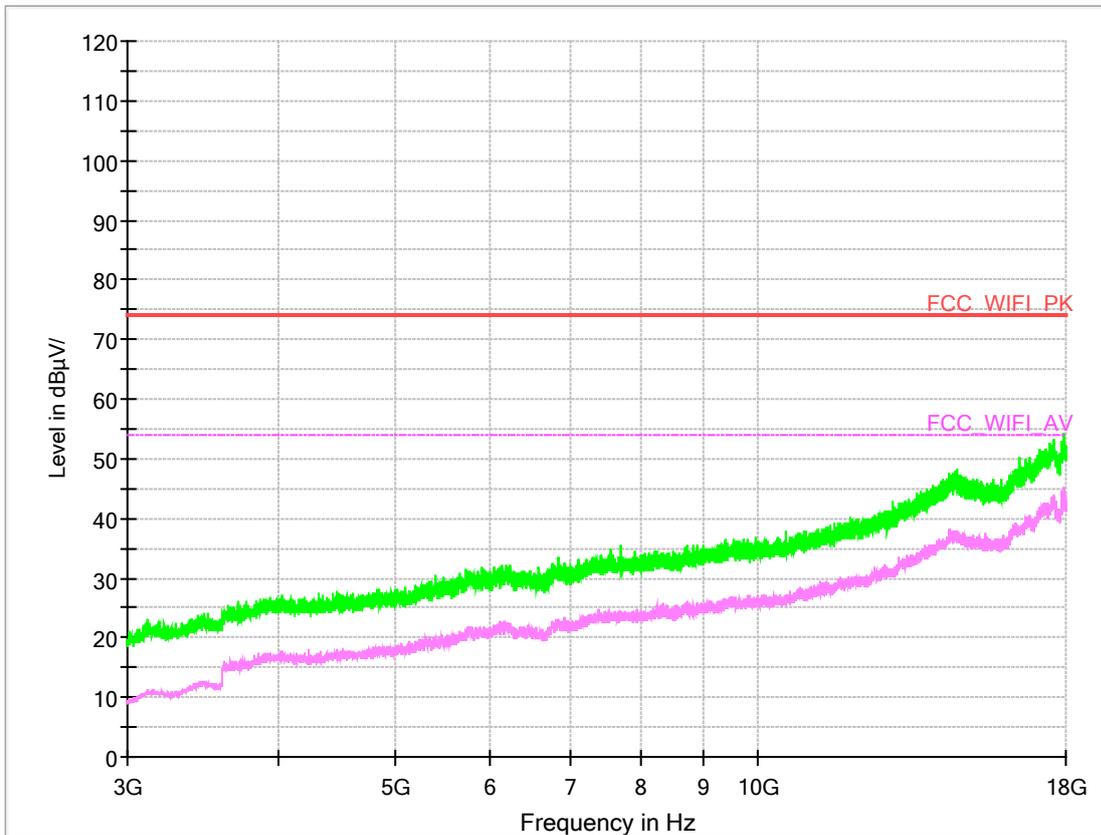


Note: The peak exceeds the limit line is carrier frequency.

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2483.500000	---	37.61	54.00	-16.39	100.0	H	44.0	4.4
2483.500000	50.59	---	74.00	-23.41	190.0	H	69.0	3.7

Part 5: Testing Range of “3 GHz to 18 GHz”

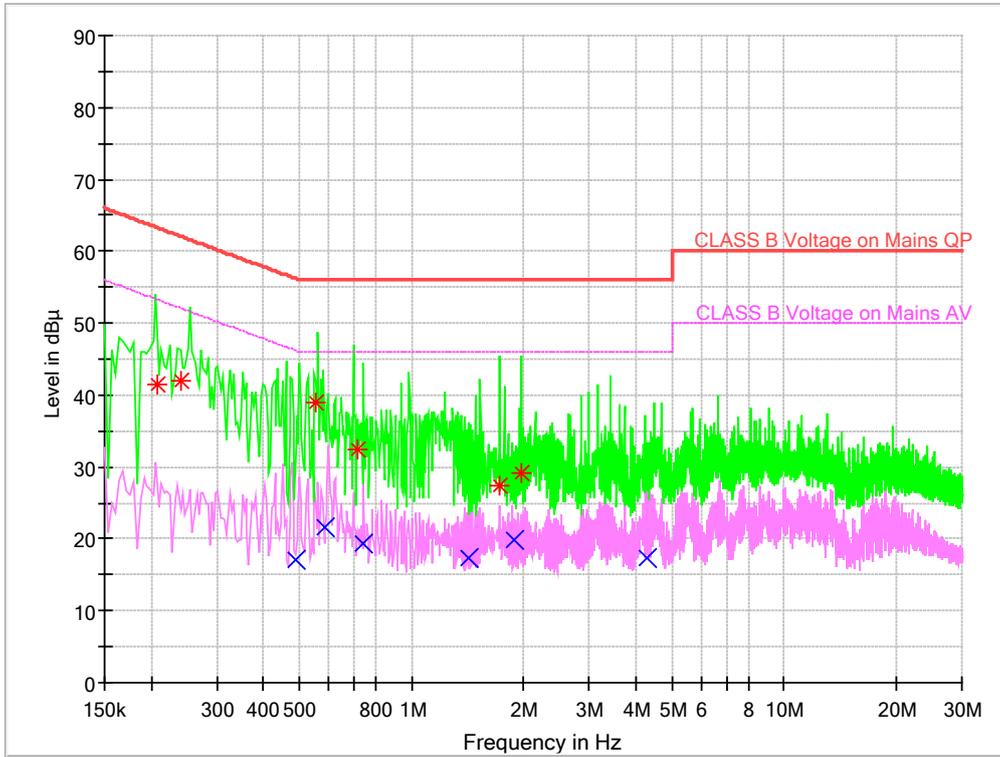
- Note 1: The test results and plot for testing range of “3 GHz to 18 GHz” showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.
- Note 2: The testing range of “3 GHz to 18 GHz” is for checking radiated emissions located 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).



Appendix I: Conducted Emission at Power Port

Note: RBW =9 kHz, VBW = 30 kHz

Channel 39



Frequency	QuasiPeak	Average	Limit	Margin	Corr.	Line	Filter
0.207906	41.44	---	63.29	-21.85	9.7	N	ON
0.240874	41.91	---	62.07	-20.16	9.7	L1	ON
0.490466	---	16.98	46.16	-29.18	9.7	L1	ON
0.555348	38.84	---	56.00	-17.16	9.7	L1	ON
0.588089	---	21.55	46.00	-24.45	9.7	L1	ON
0.713013	32.46	---	56.00	-23.54	9.7	N	ON
0.742014	---	19.26	46.00	-26.74	9.7	L1	ON
1.418079	---	17.23	46.00	-28.77	9.7	N	ON
1.729198	27.42	---	56.00	-28.58	9.8	N	ON
1.885594	---	19.91	46.00	-26.09	9.8	L1	ON
1.961665	29.04	---	56.00	-26.96	9.8	N	ON
4.296744	---	17.42	46.00	-28.58	9.9	L1	ON

END