



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
11B	L	2412	Ant 1	6.64	pass
11B	L	2412	Ant 2	7.11	pass
11B	M	2437	Ant 1	7.10	pass
11B	M	2437	Ant 2	7.08	pass
11B	H	2462	Ant 1	7.57	pass
11B	H	2462	Ant 2	7.58	pass
11G	L	2412	Ant 1	16.05	pass
11G	L	2412	Ant 2	16.42	pass
11G	M	2437	Ant 1	16.42	pass
11G	M	2437	Ant 2	16.37	pass
11G	H	2462	Ant 1	16.07	pass
11G	H	2462	Ant 2	16.43	pass
11N20	L	2412	Ant 1	16.41	pass
11N20	L	2412	Ant 2	17.63	pass
11N20	M	2437	Ant 1	17.65	pass
11N20	M	2437	Ant 2	17.59	pass
11N20	H	2462	Ant 1	16.71	pass
11N20	H	2462	Ant 2	17.65	pass
11N20m	L	2412	Ant 2	17.68	pass
11N20m	L	2412	Ant 1	16.40	pass
11N20m	M	2437	Ant 2	17.64	pass
11N20m	M	2437	Ant 1	17.63	pass
11N20m	H	2462	Ant 2	17.68	pass
11N20m	H	2462	Ant 1	17.23	pass
11G CDD	L	2412	Ant 1	15.77	pass
11G CDD	L	2412	Ant 2	16.43	pass
11G CDD	M	2437	Ant 1	16.42	pass
11G CDD	M	2437	Ant 2	16.41	pass

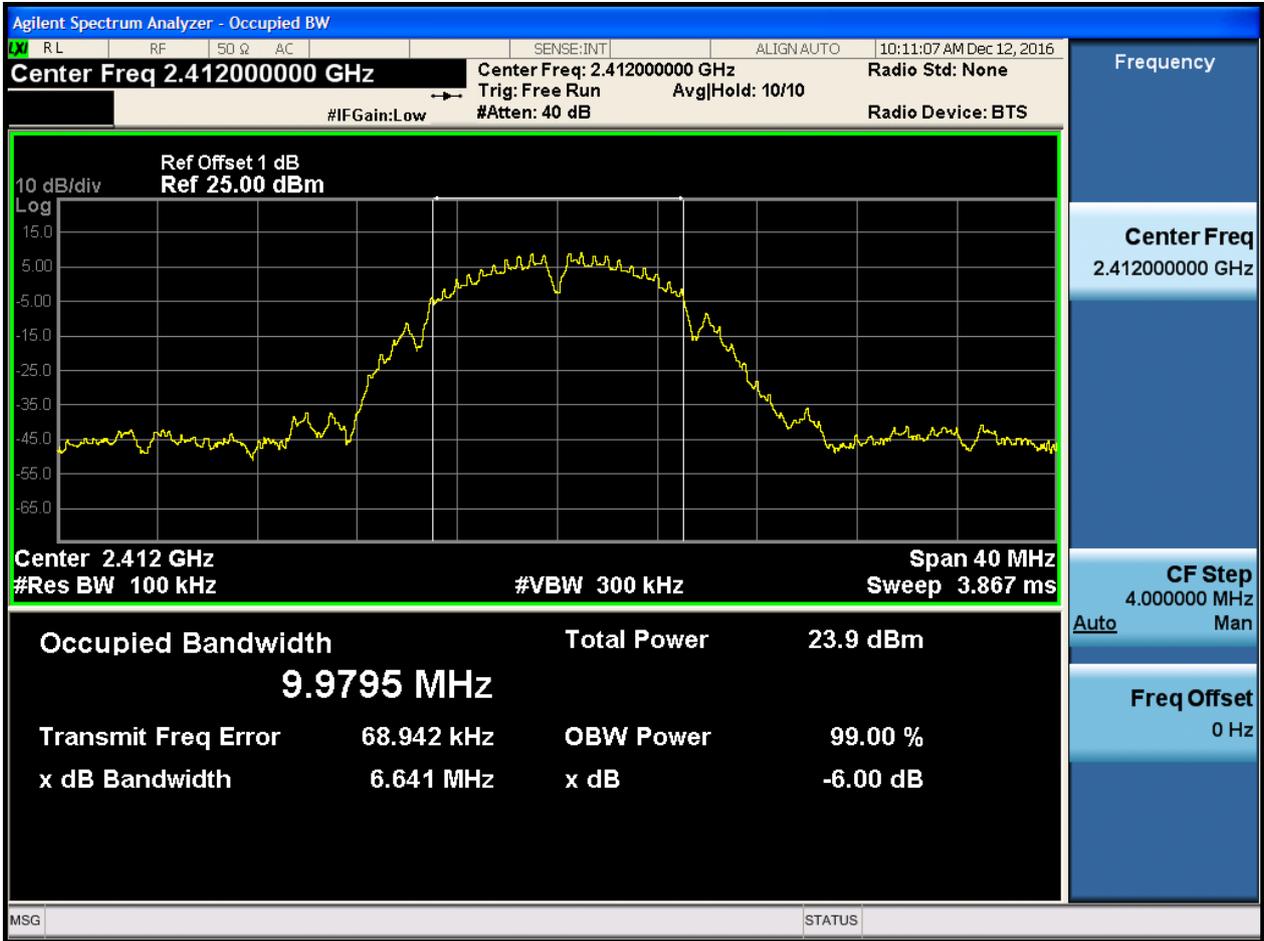


Test Mode	Test Channel	Frequency[MHz]	Ant	DTS6dBBW[MHz]	Verdict
11G CDD	H	2462	Ant 1	15.79	pass
11G CDD	H	2462	Ant 2	16.42	pass



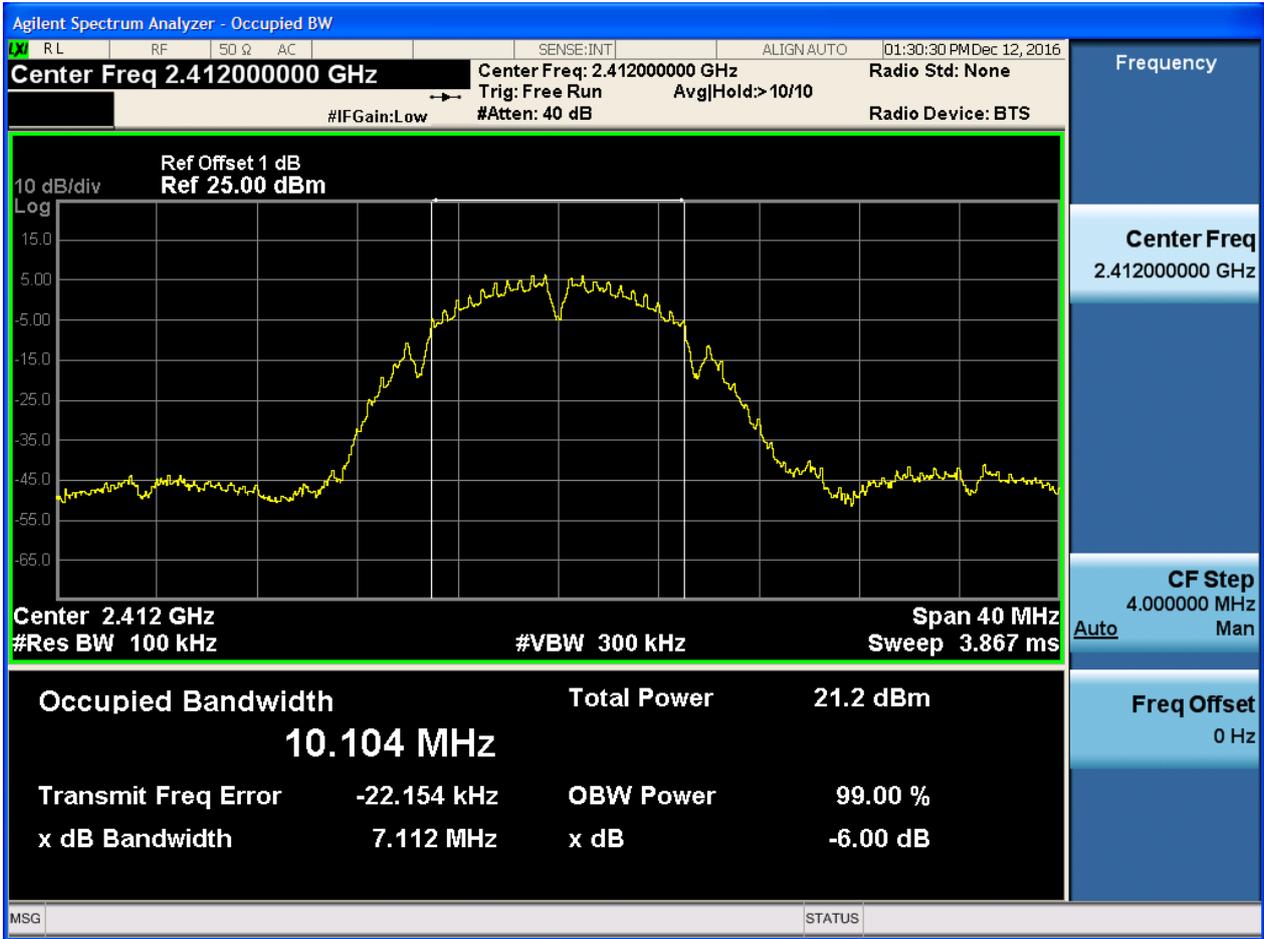
Part II - Test Plots

2.1 11B_L@Ant 1



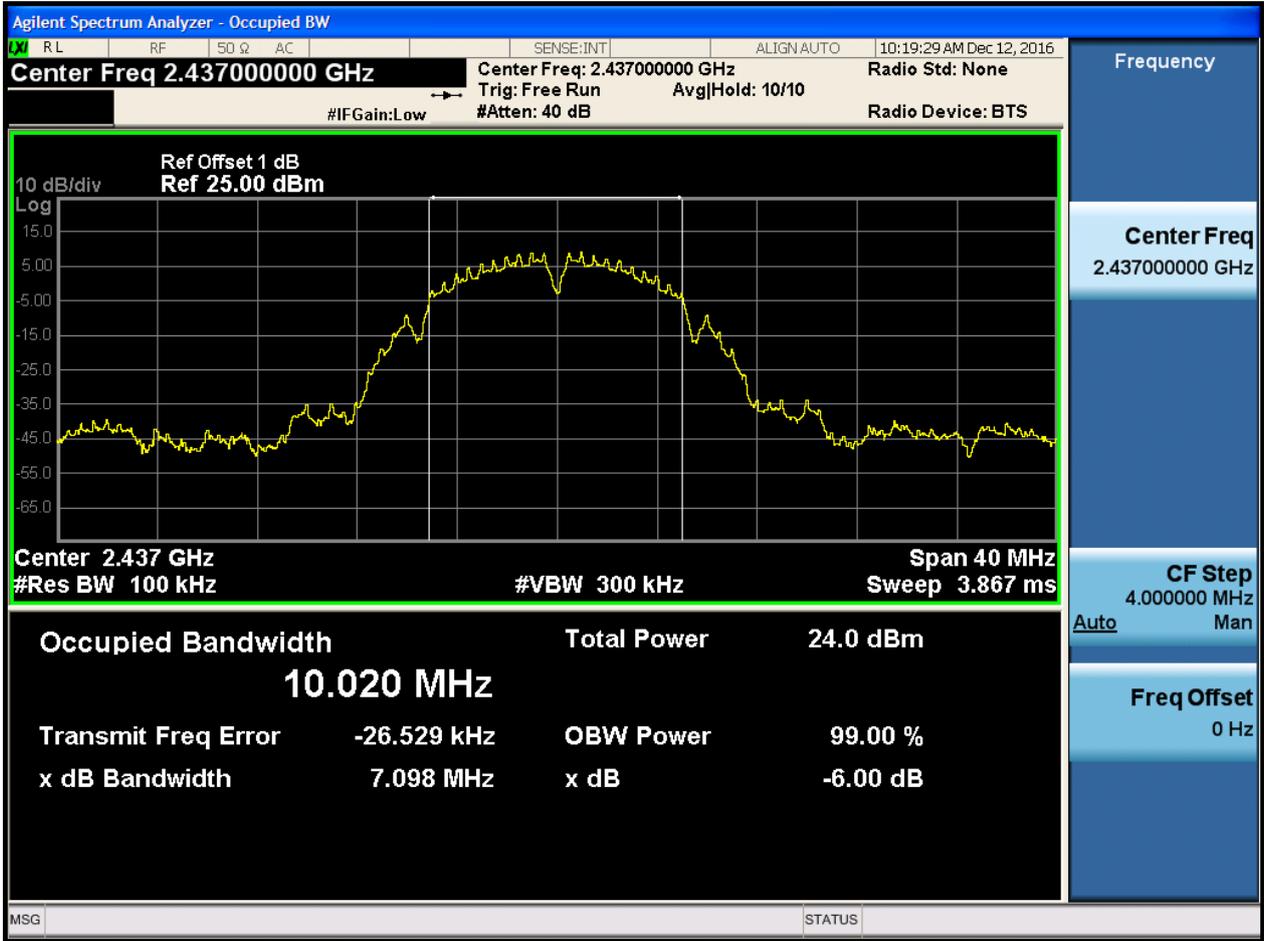


2.2 11B_L@Ant 2



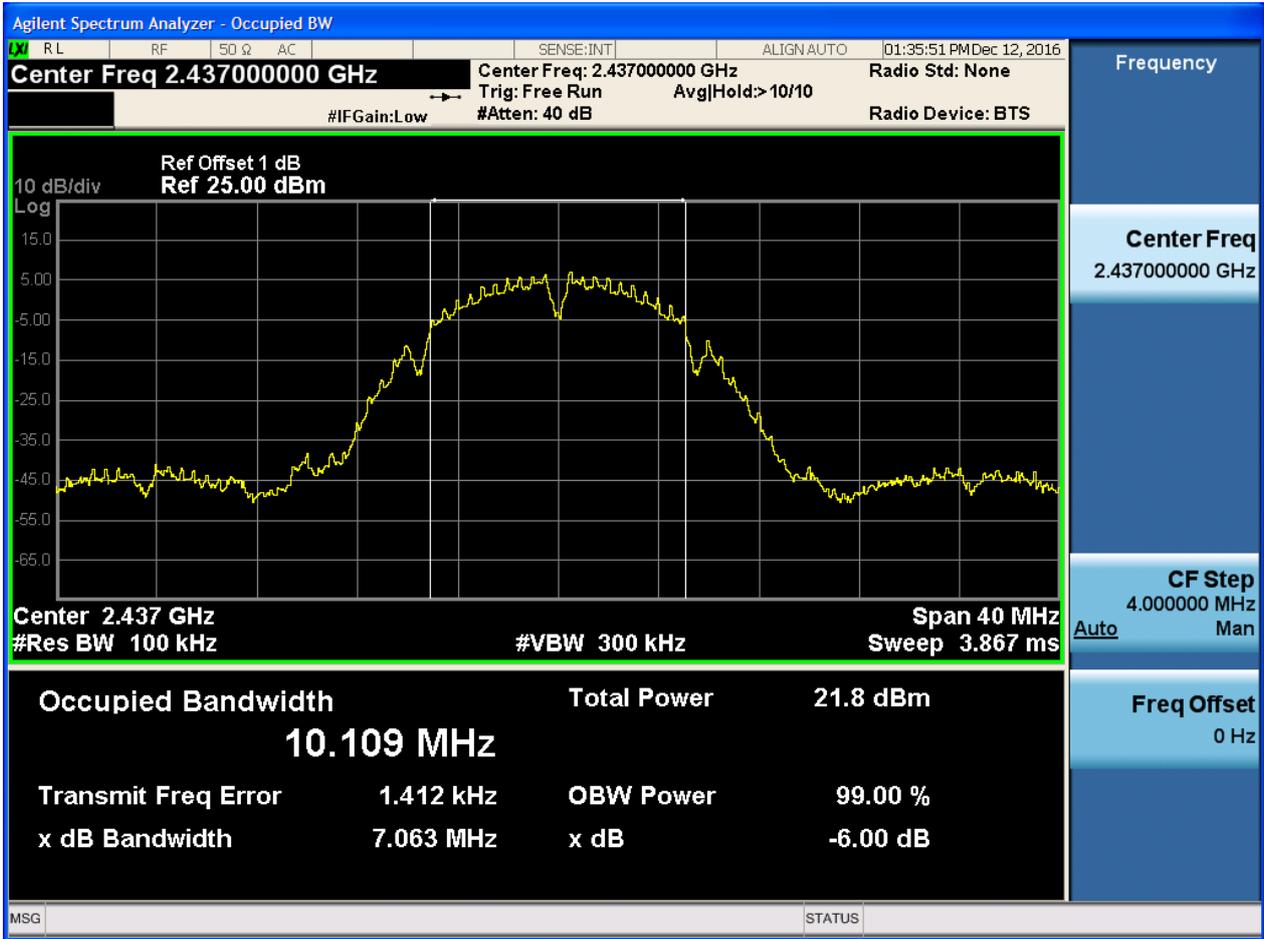


2.3 11B_M@Ant 1



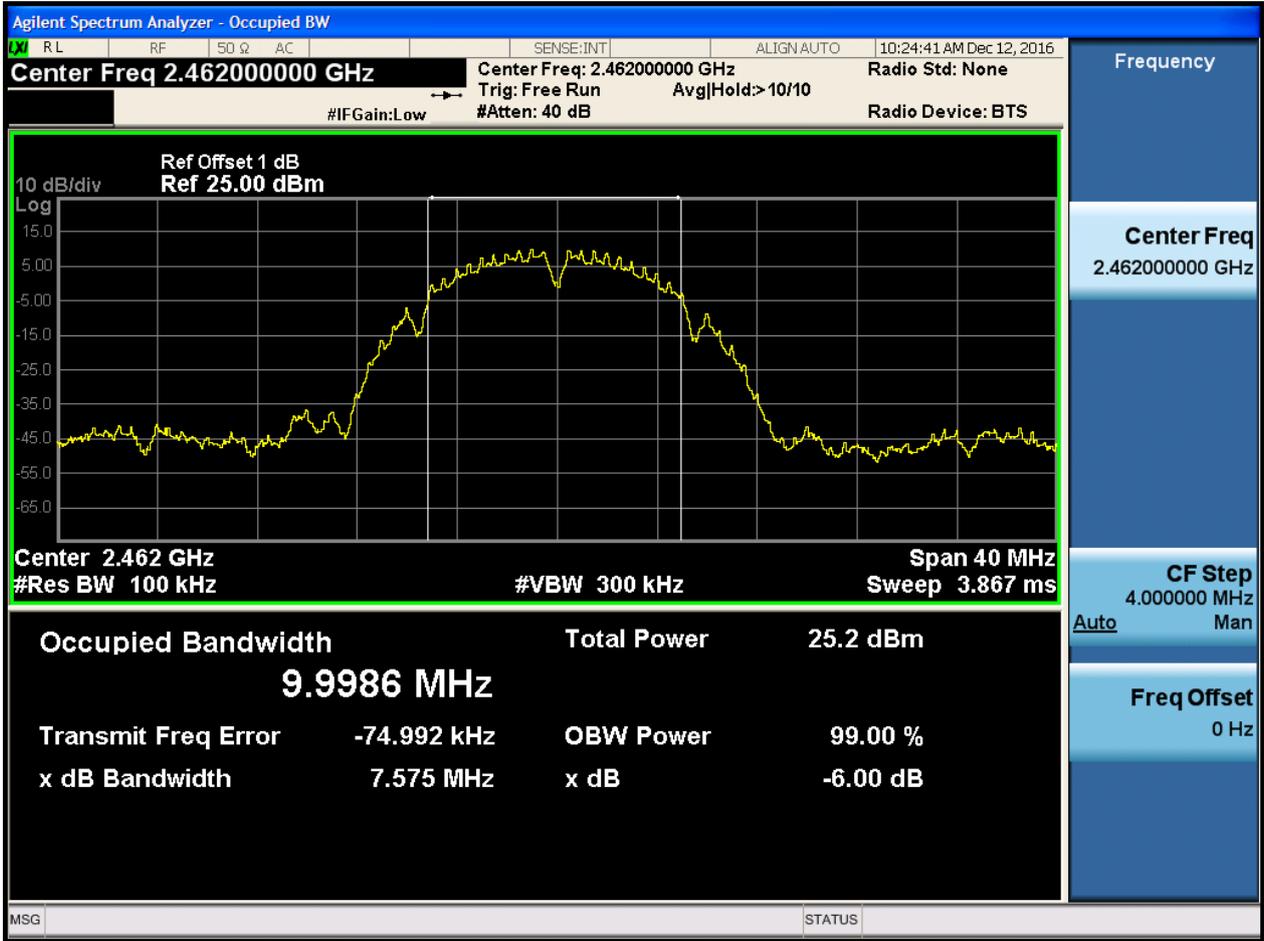


2.4 11B_M@Ant 2



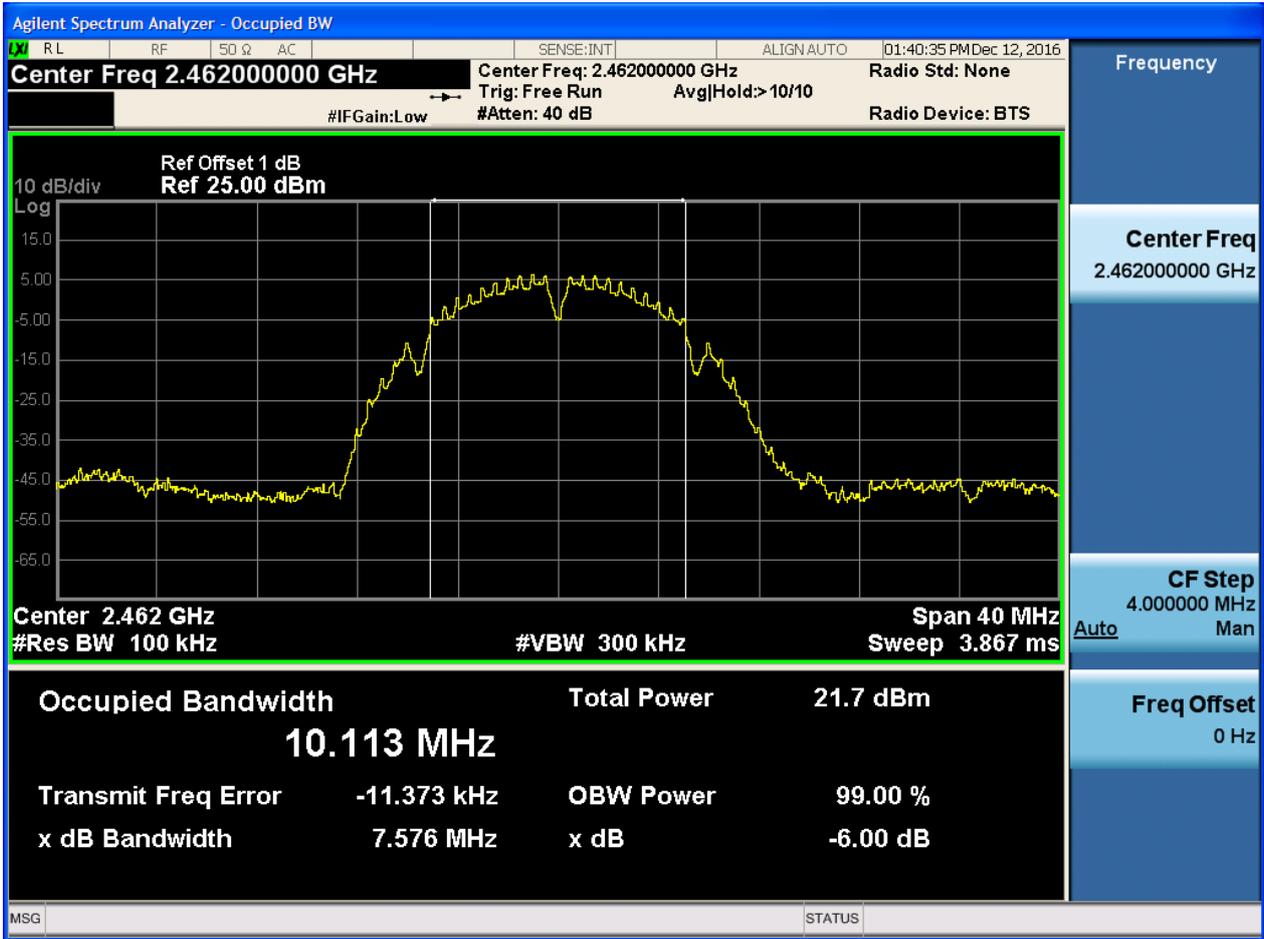


2.5 11B_H@Ant 1



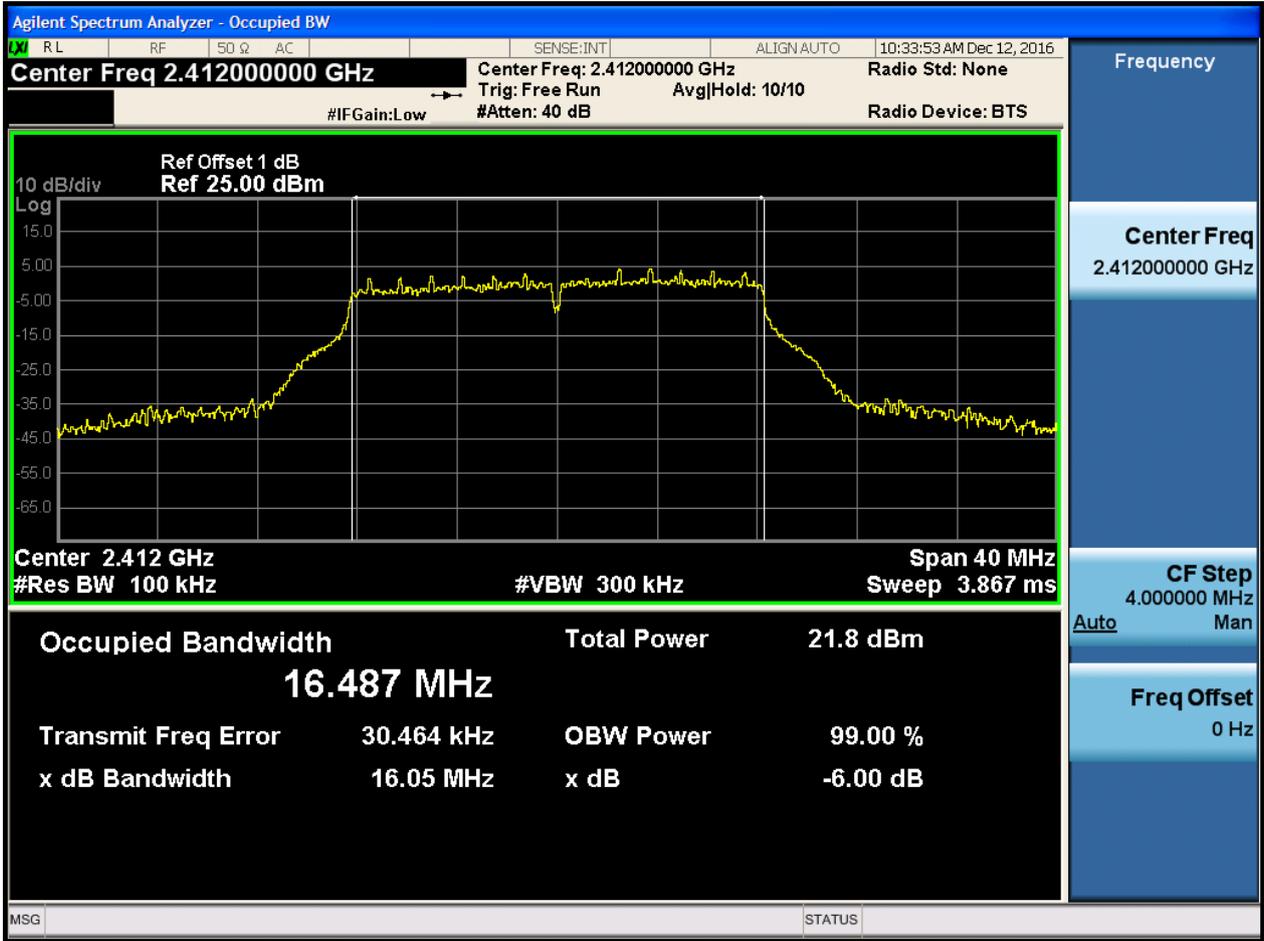


2.6 11B_H@Ant 2



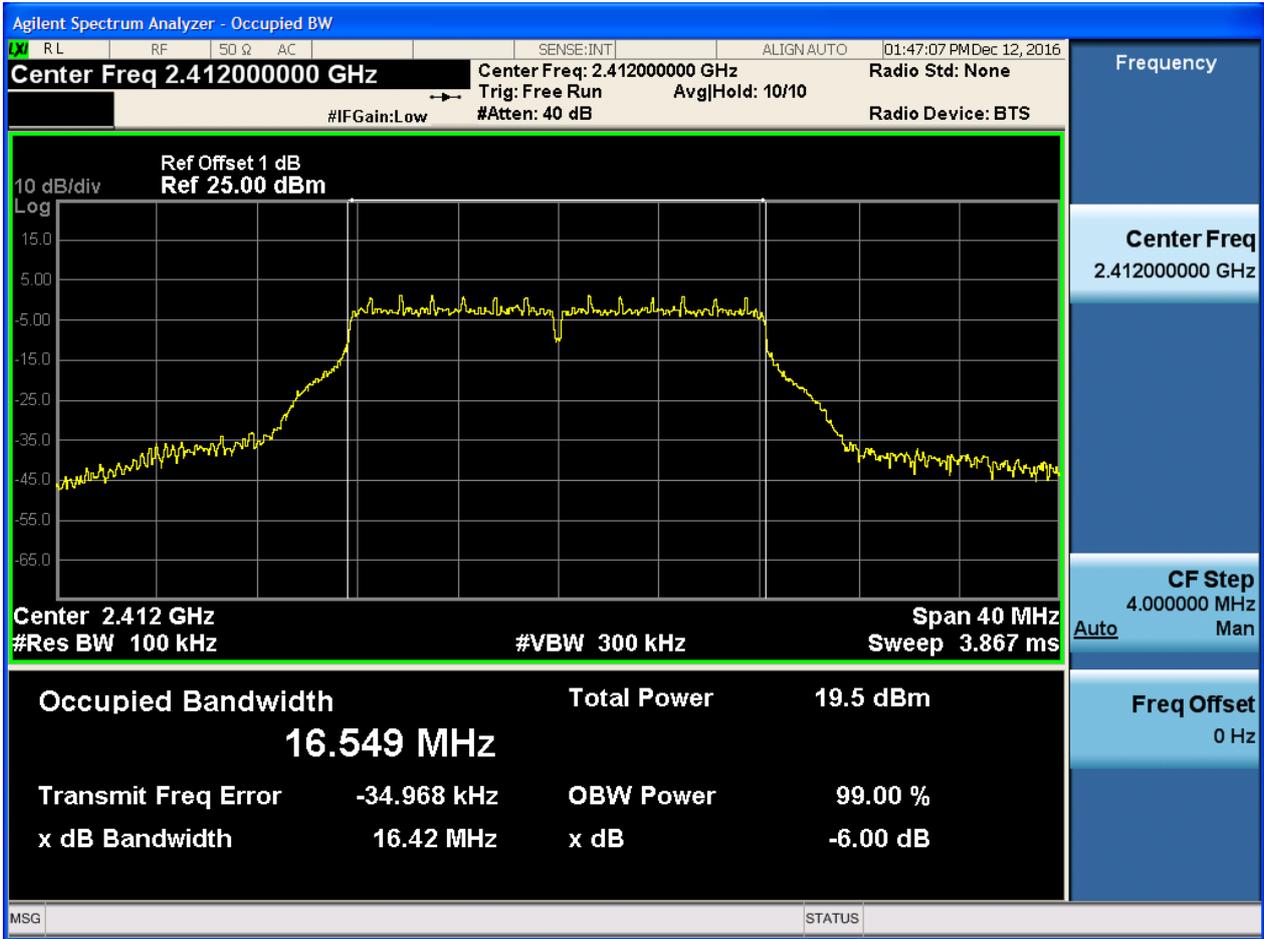


2.7 11G_L@Ant 1



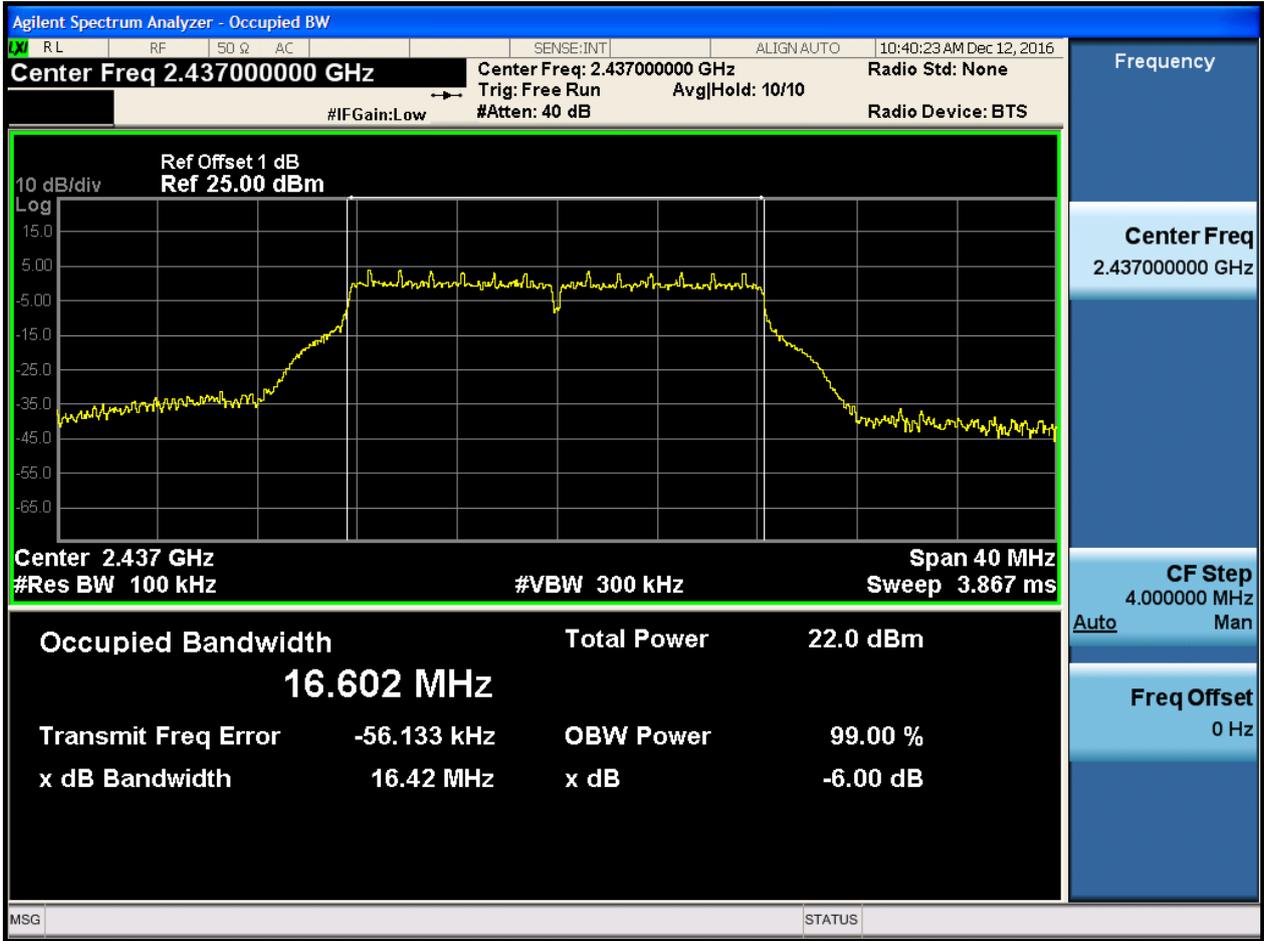


2.8 11G_L@Ant 2



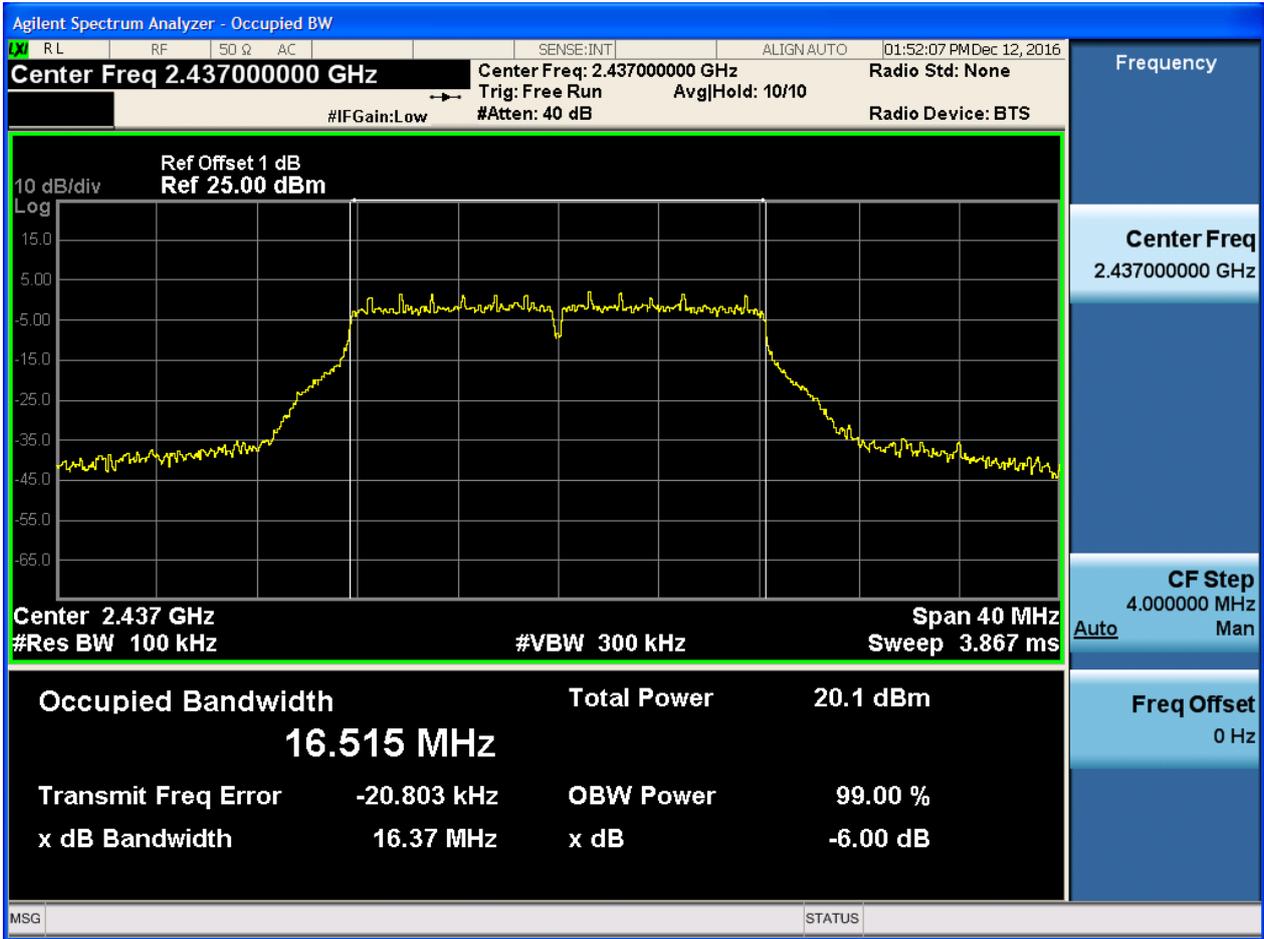


2.9 11G_M@Ant 1



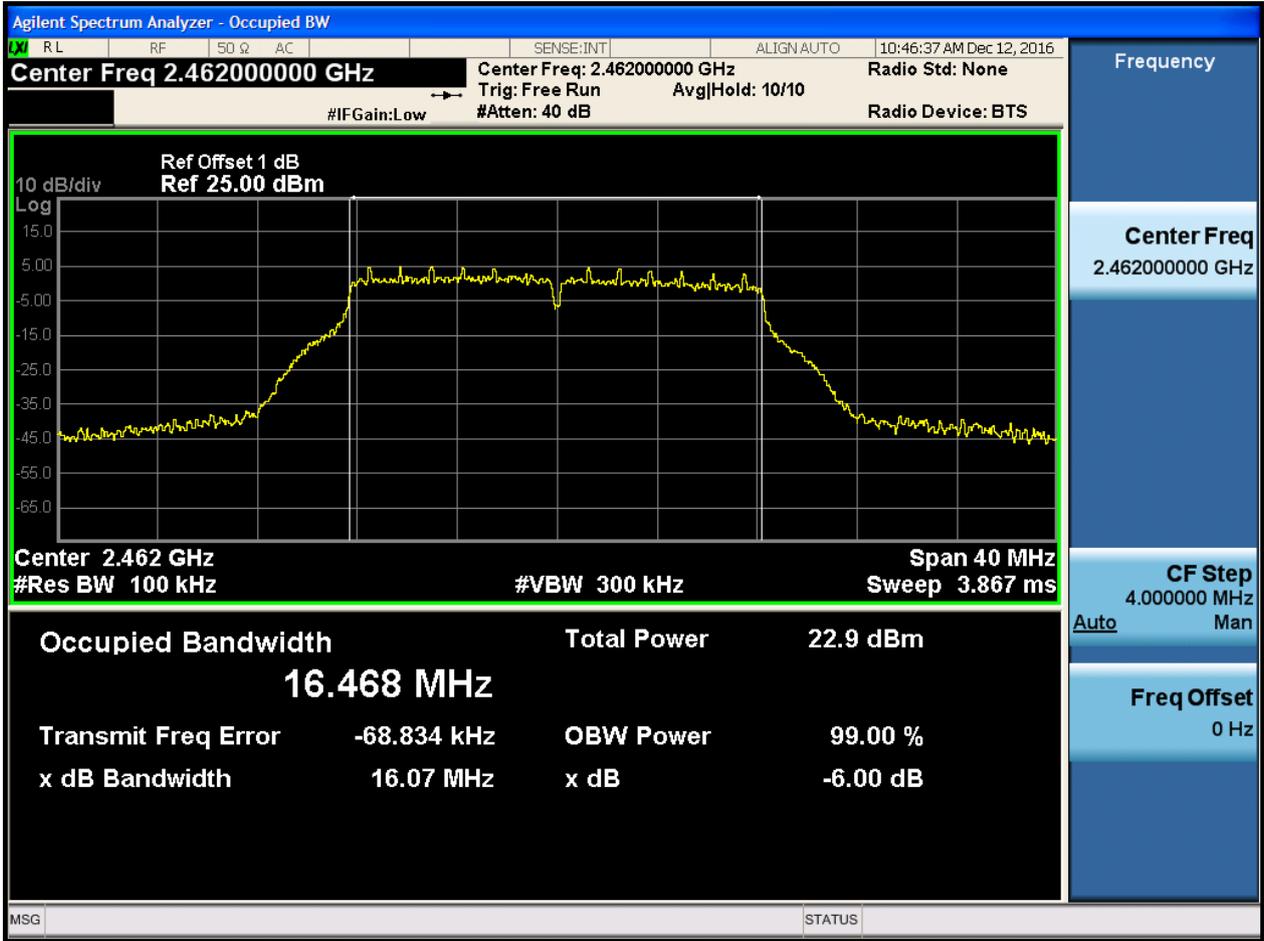


2.10 11G_M@Ant 2



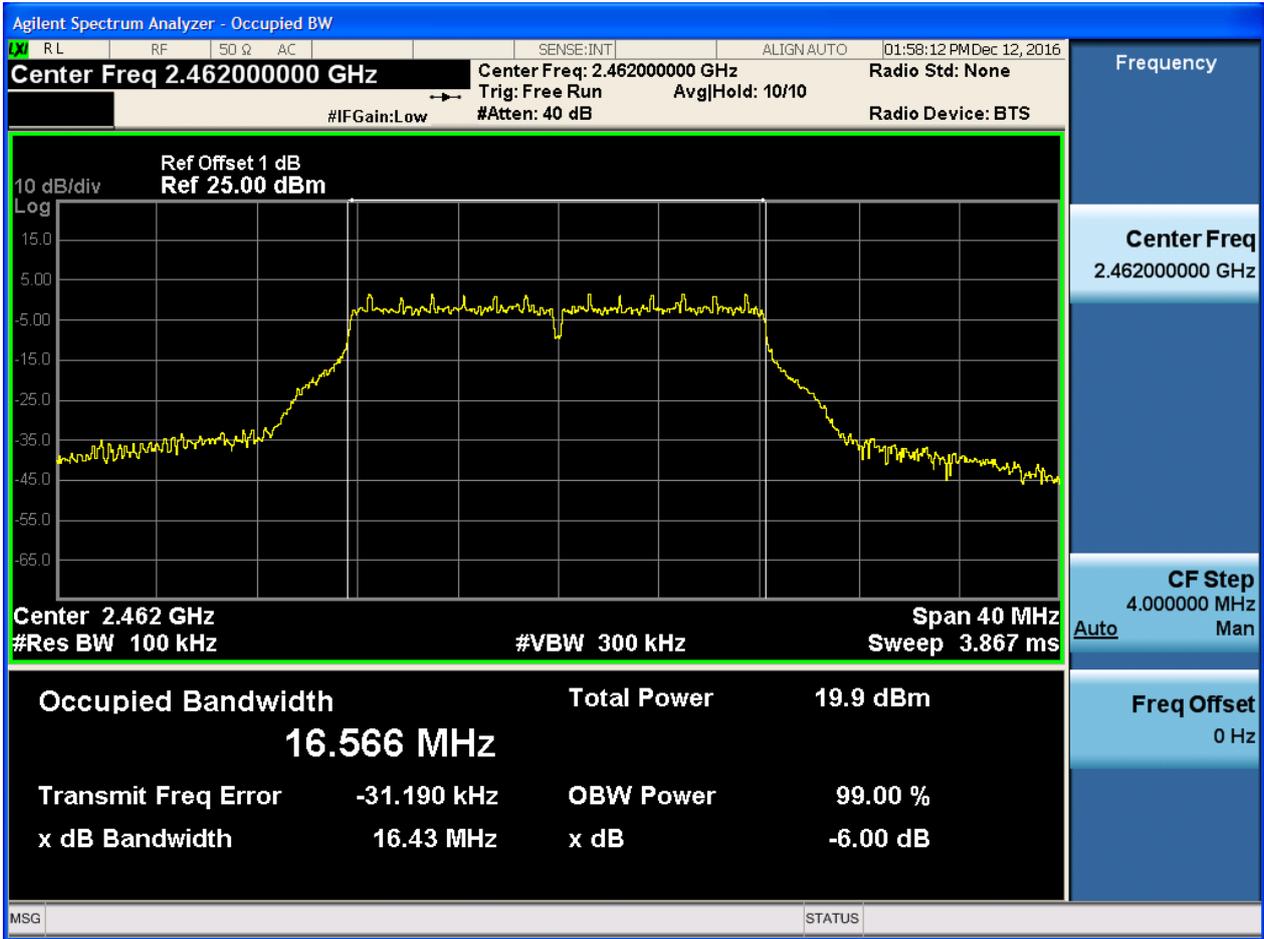


2.11 11G_H@Ant 1



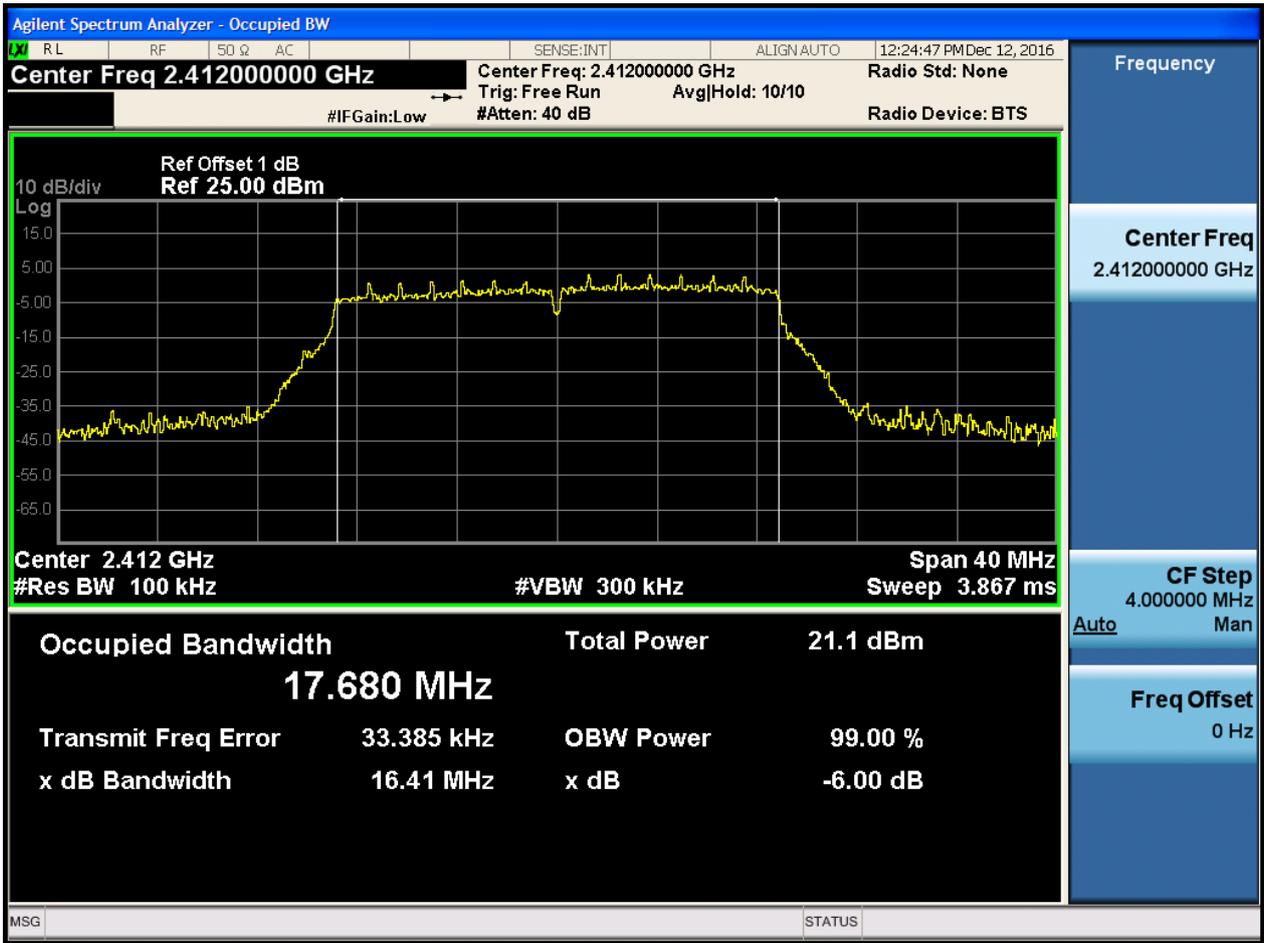


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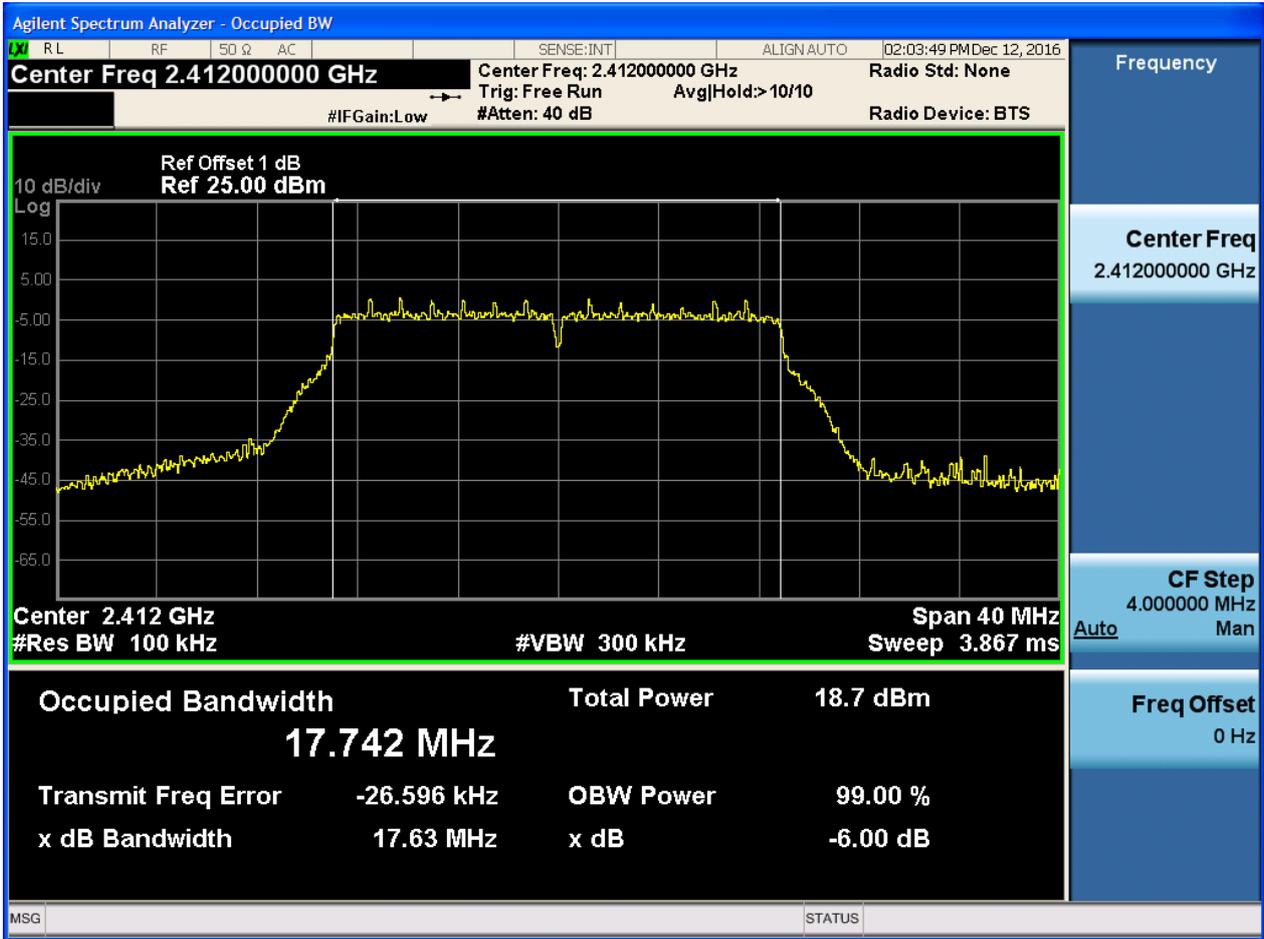


2.13 11N20_L@Ant 1



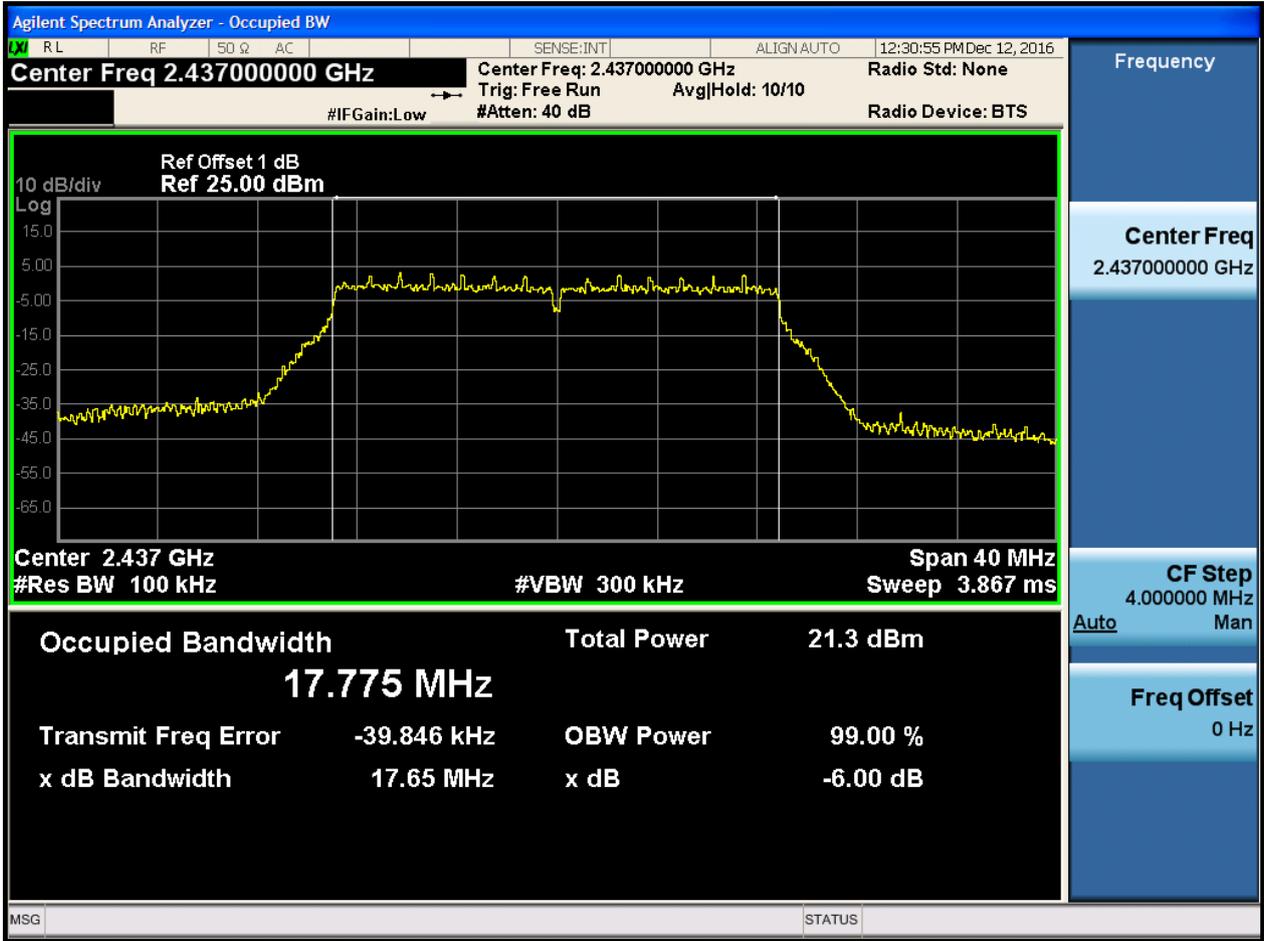


2.14 11N20_L@Ant 2



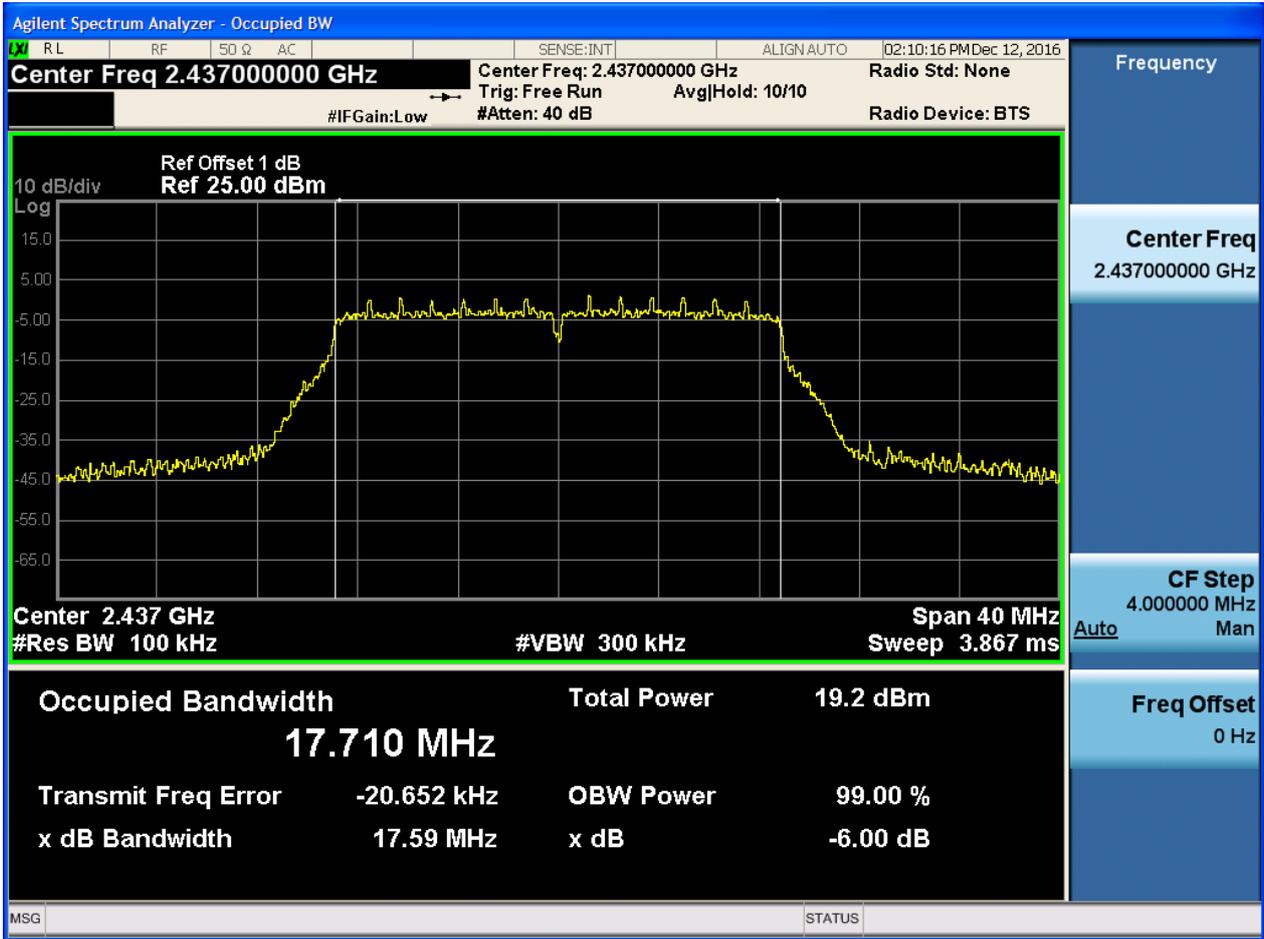


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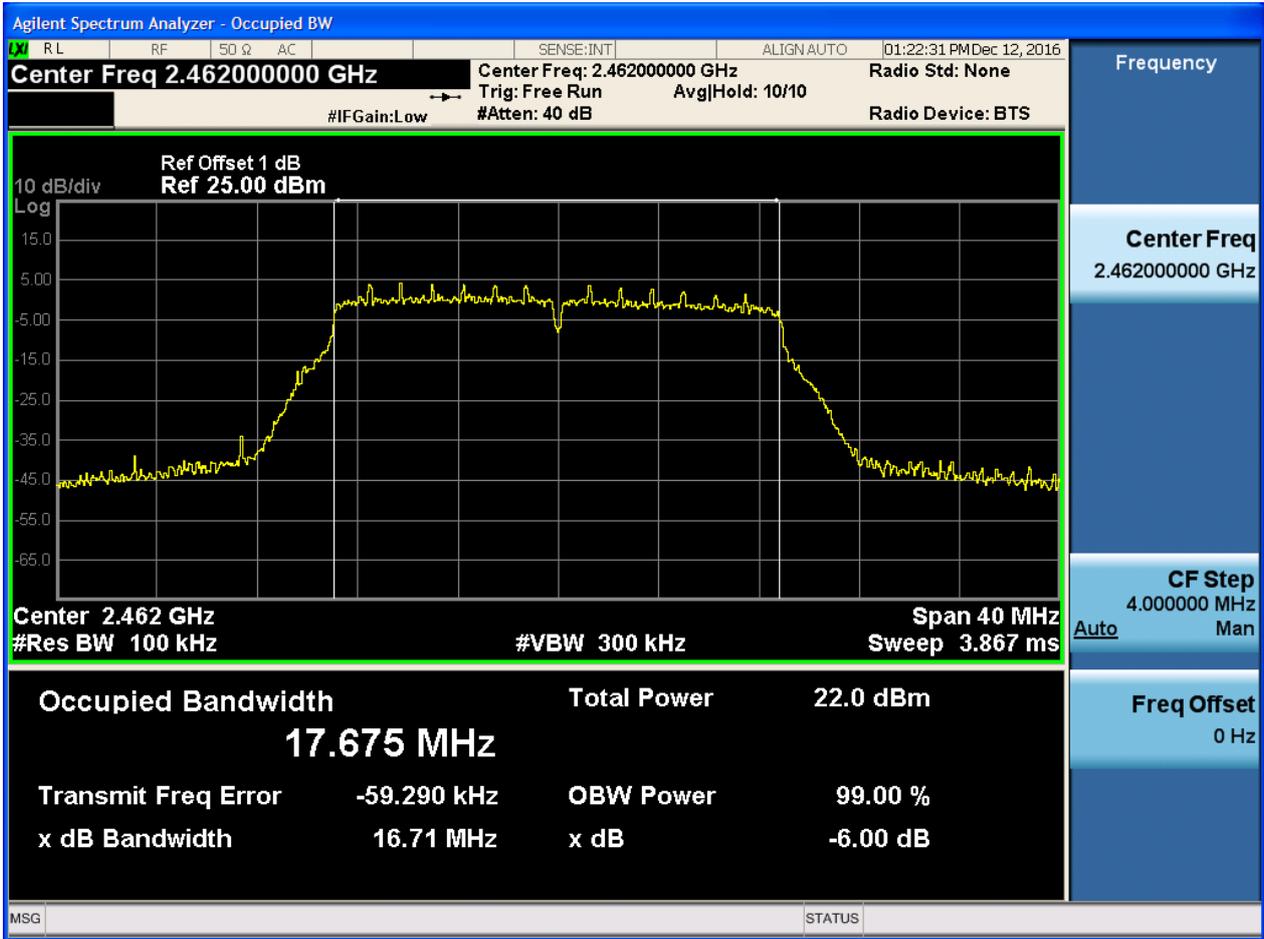


2.16 11N20_M@Ant 2



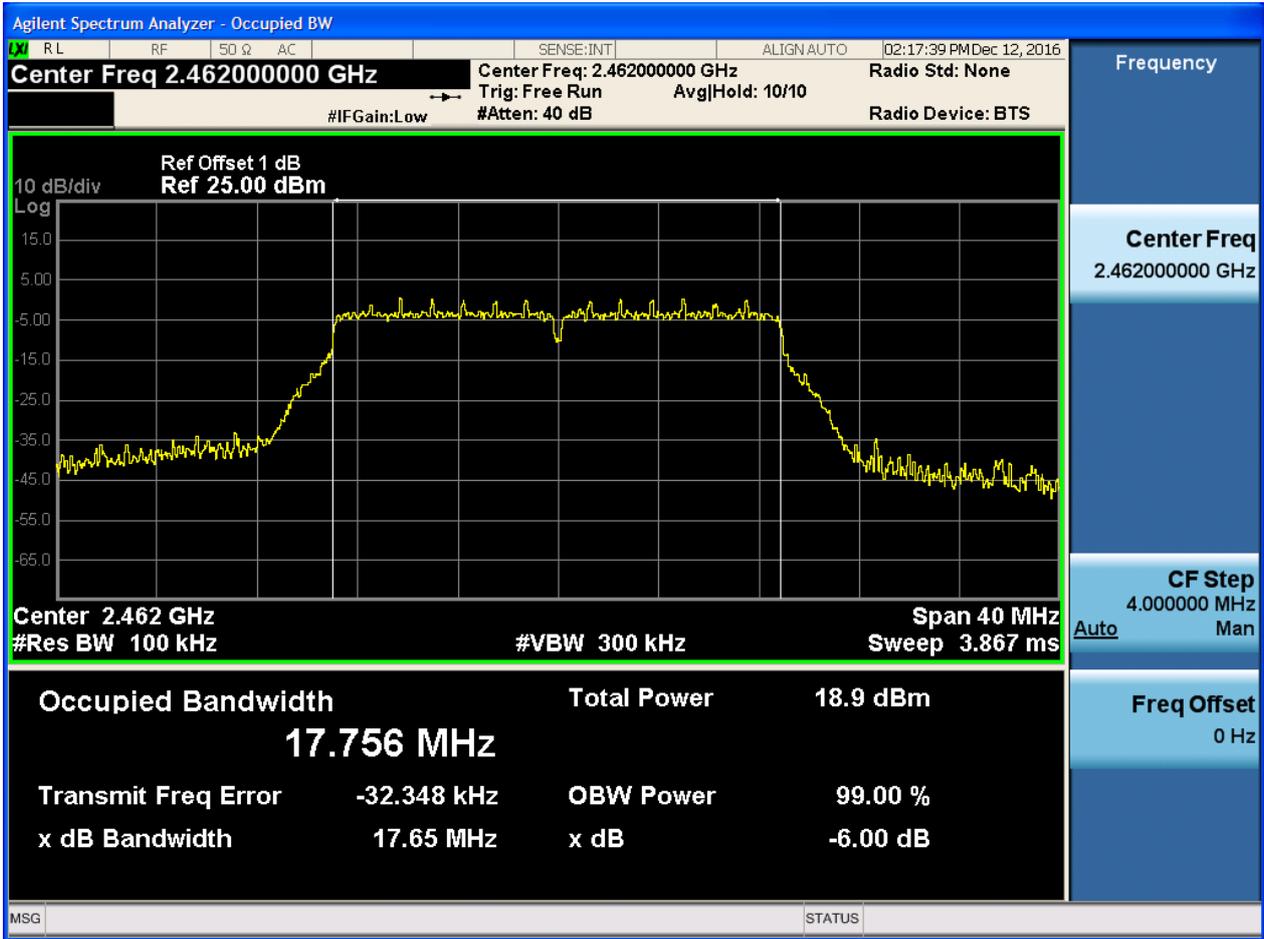


2.17 11N20_H@Ant 1

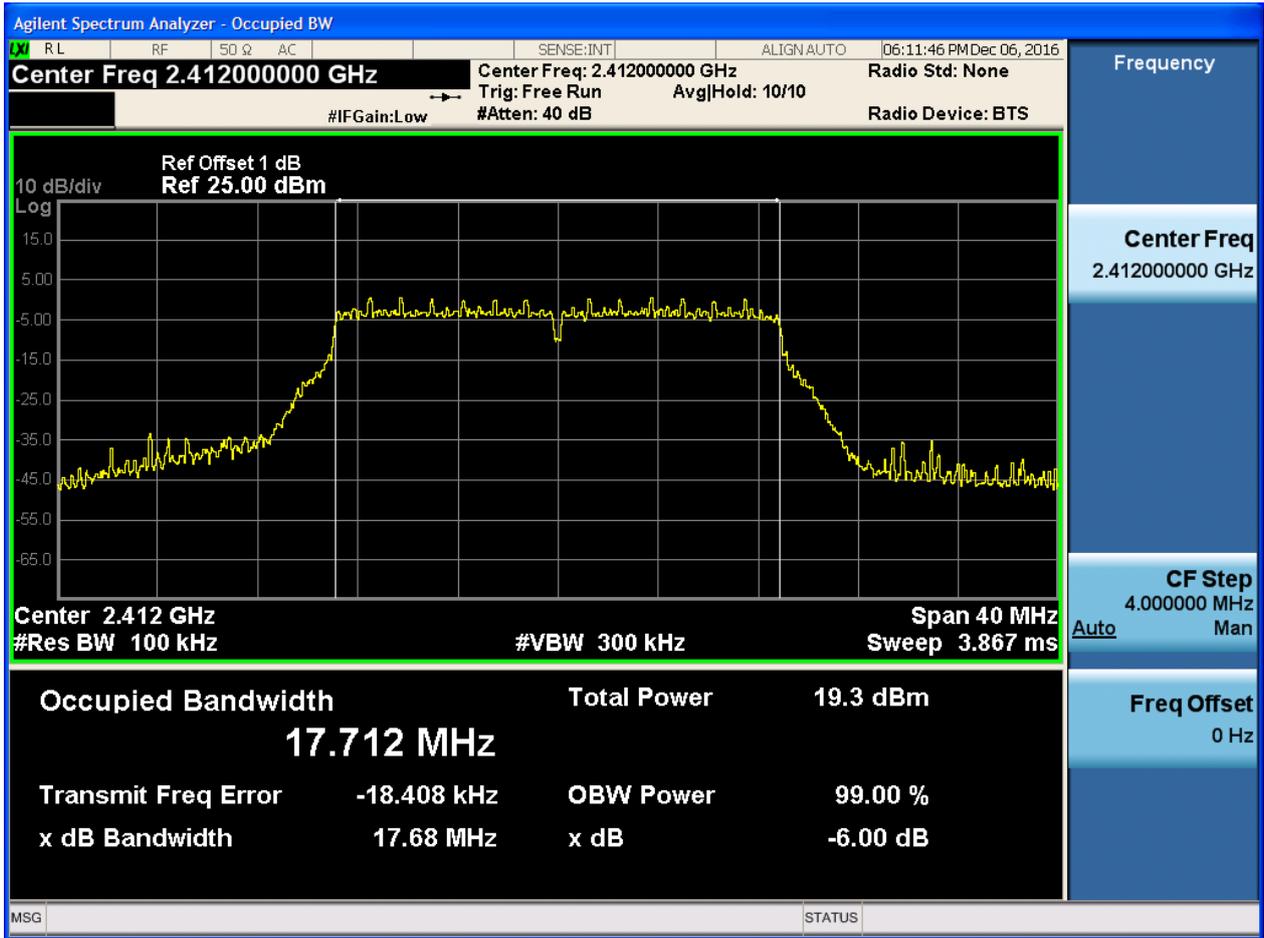




2.18 11N20_H@Ant 2

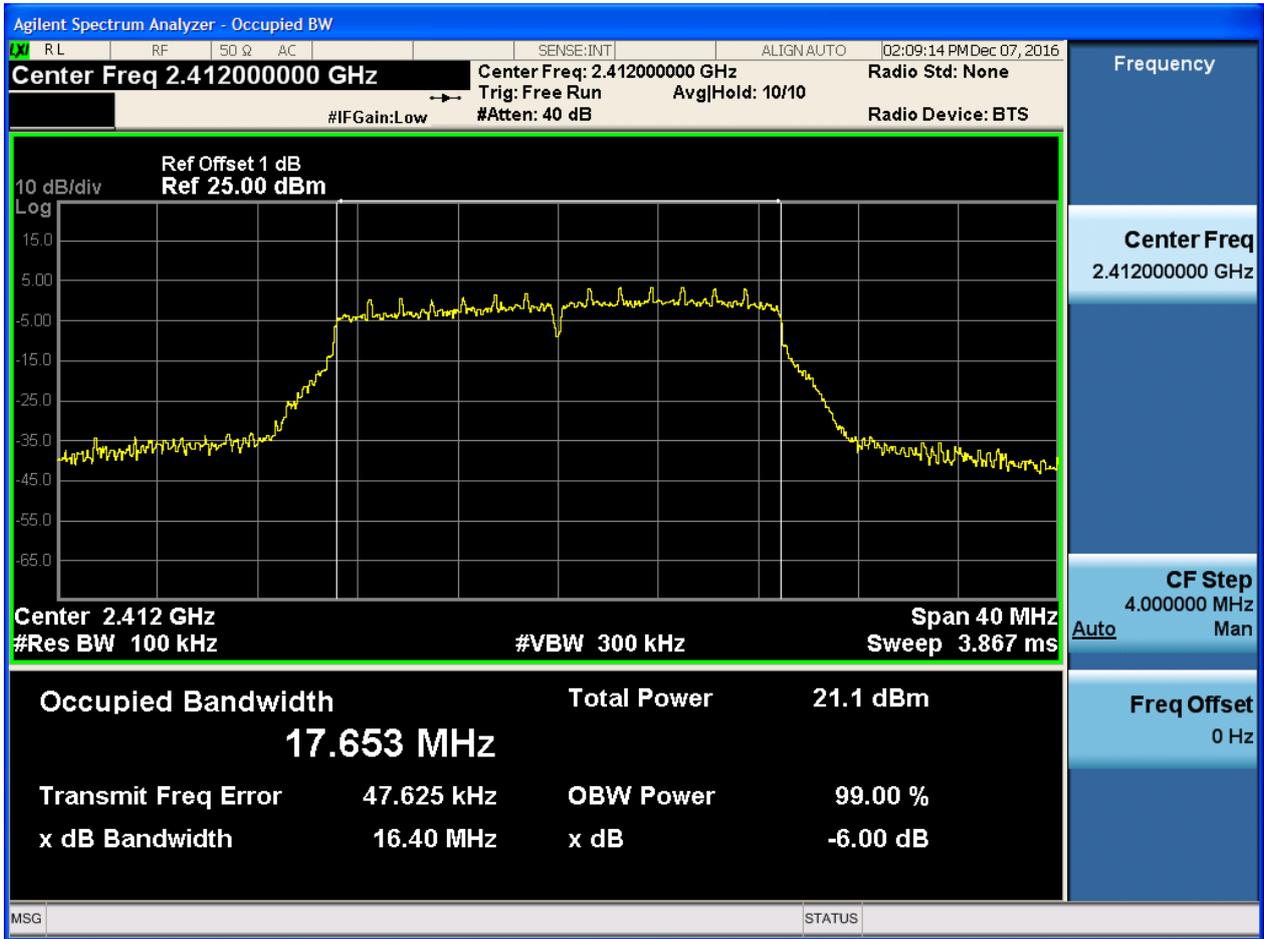


2.19 11N20m_L@Ant 2



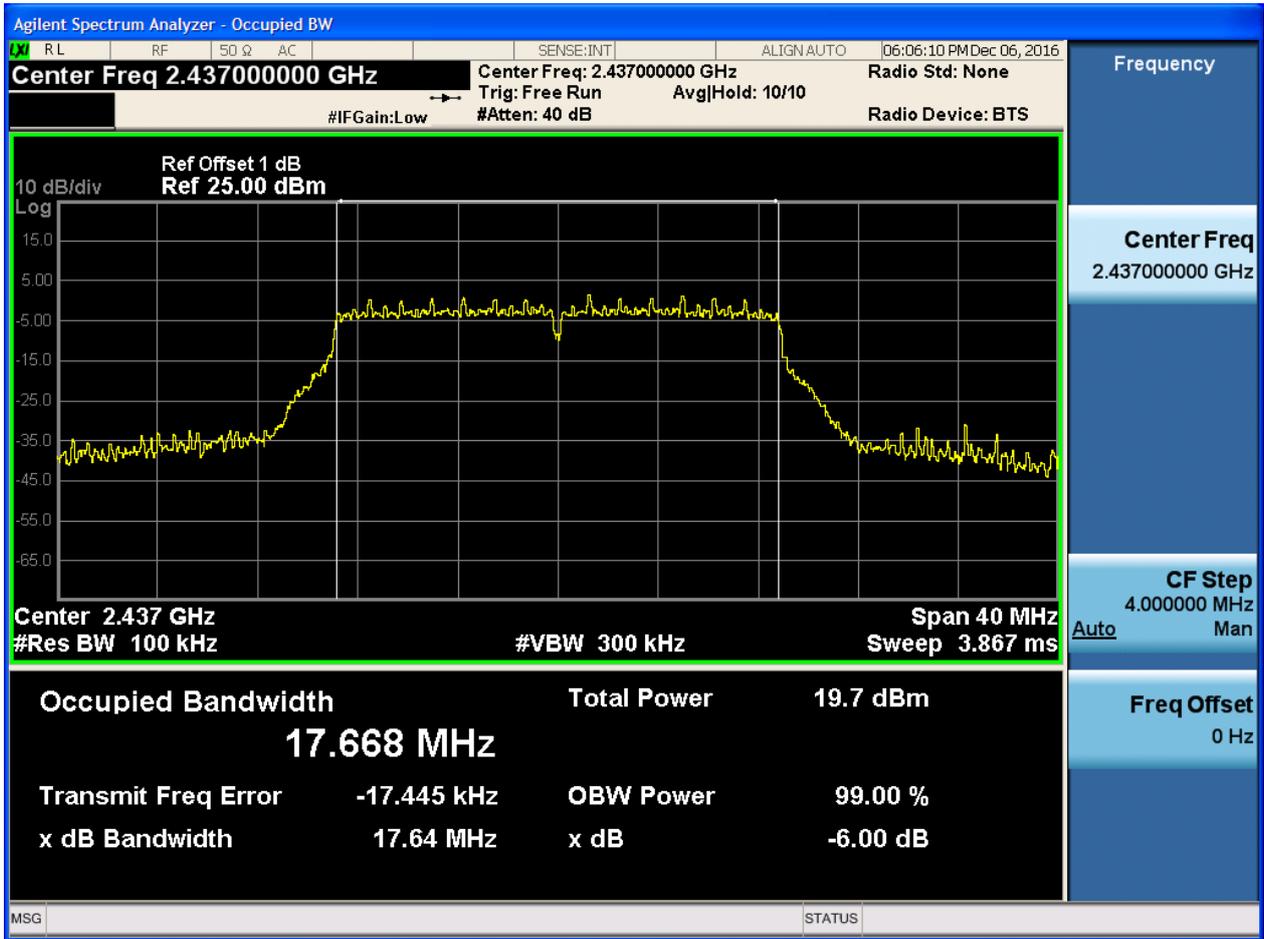


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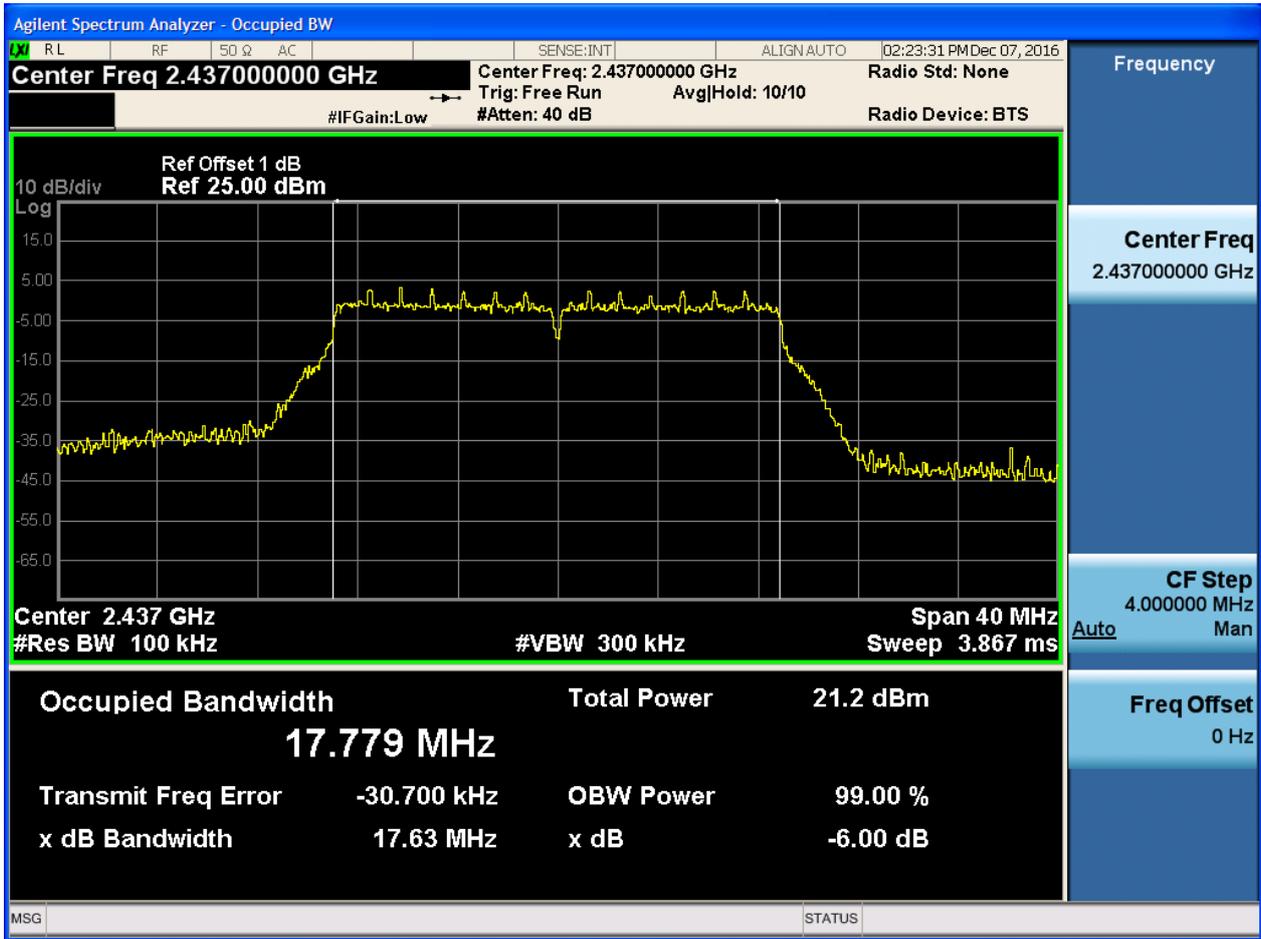


2.21 11N20m_M@Ant 2



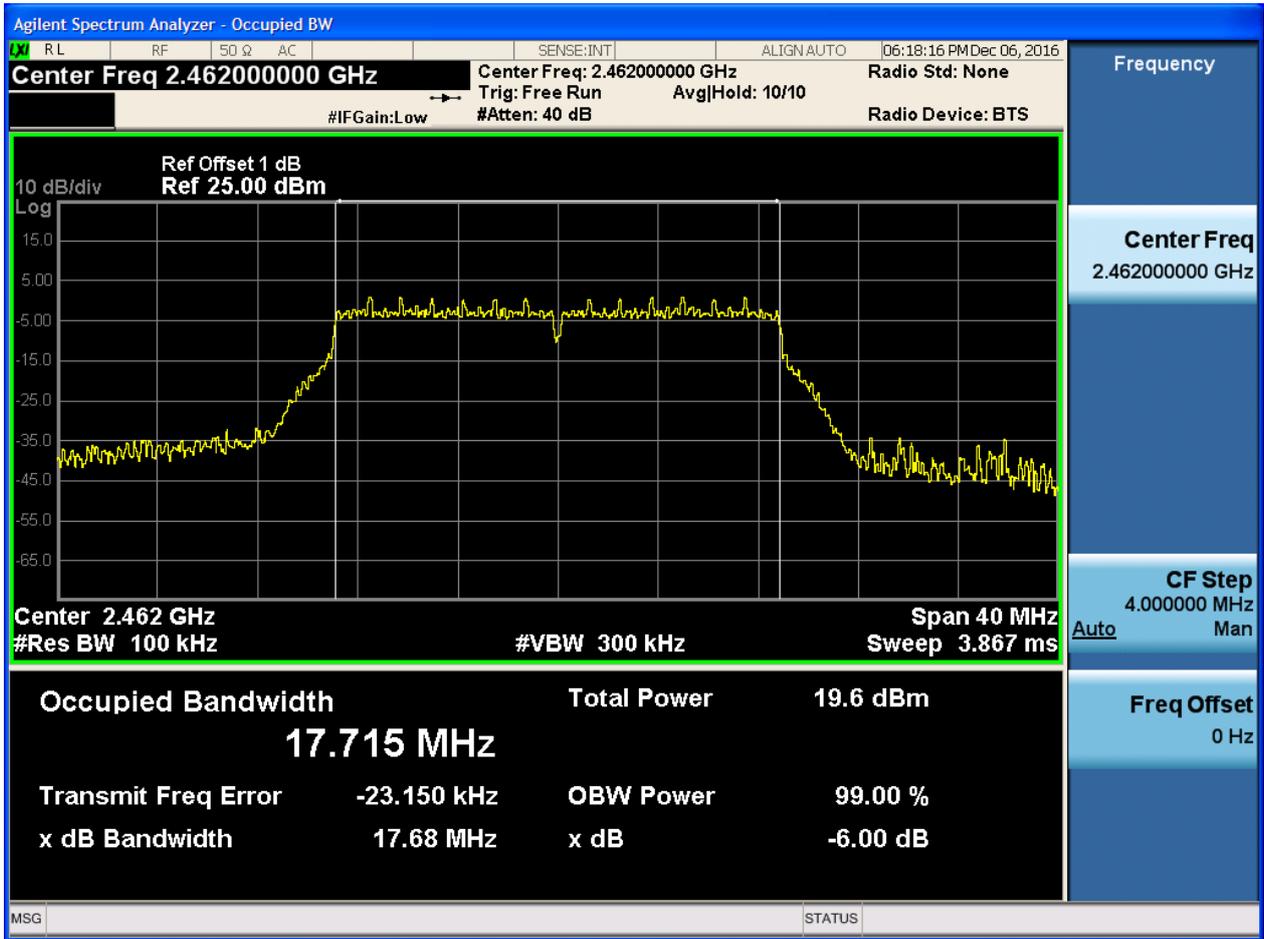


2.22 11N20m_M@Ant 1



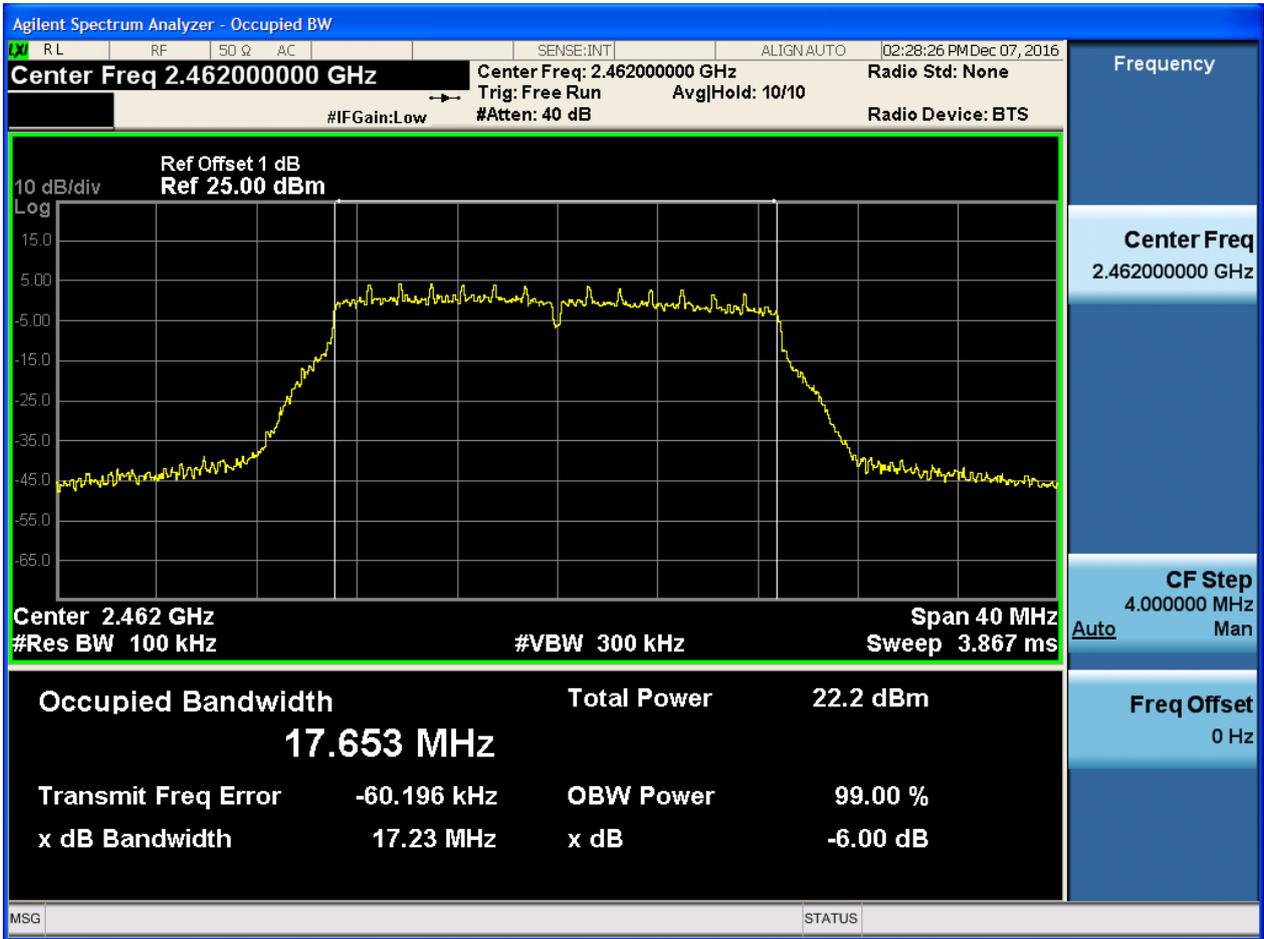


2.23 11N20m_H@Ant 2



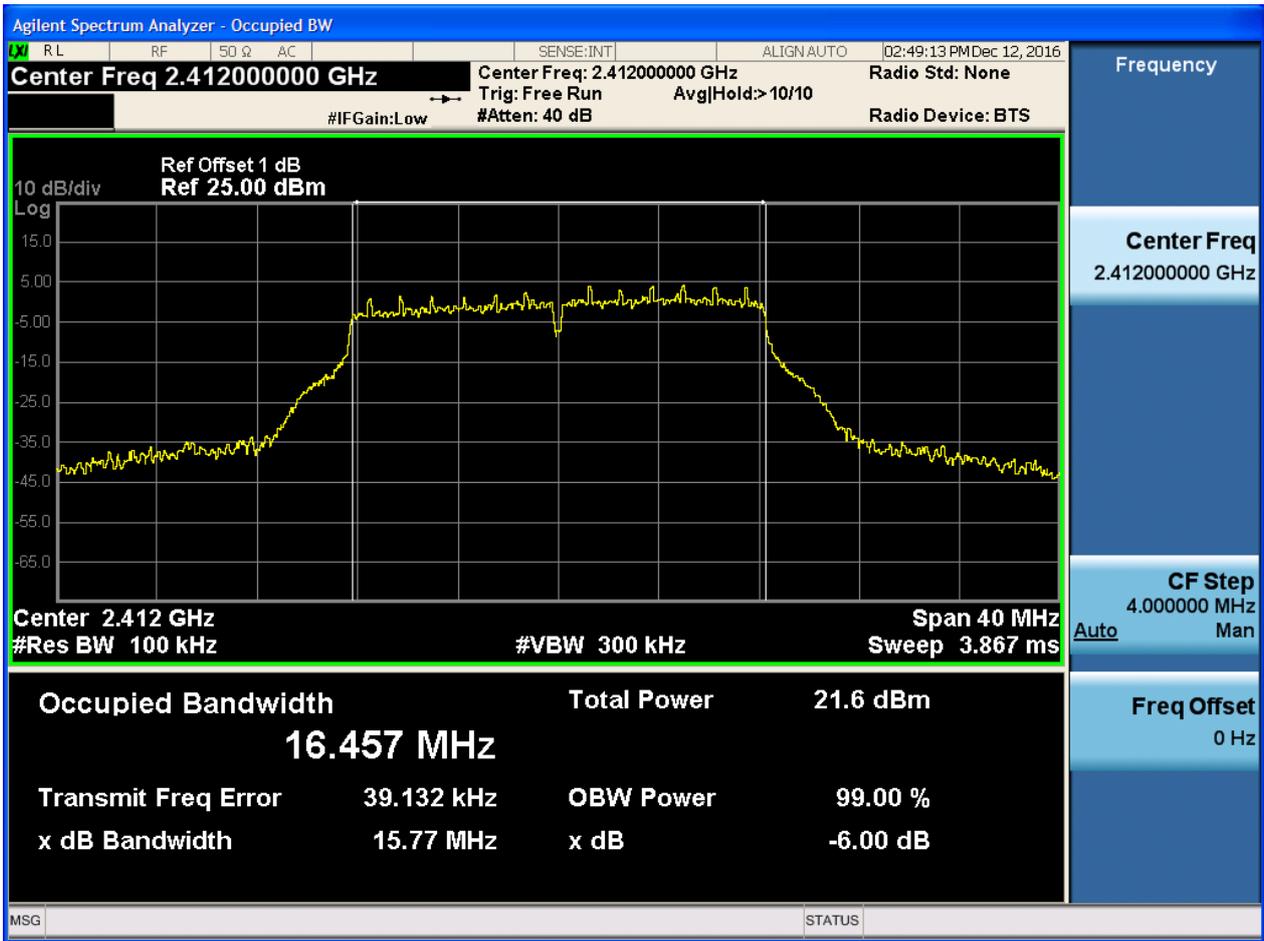


2.24 11N20m_H@Ant 1



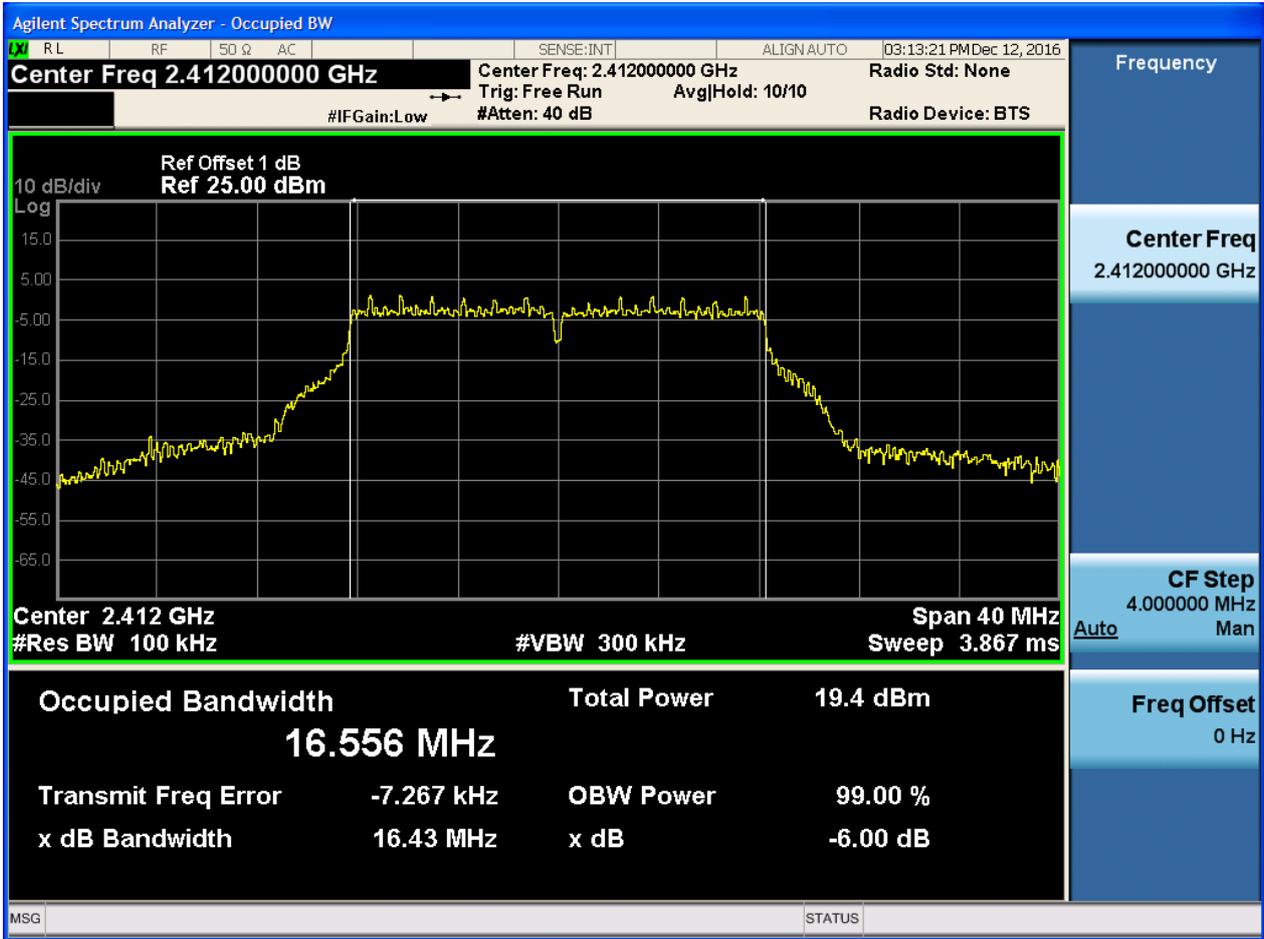


2.25 11G_CDD L@Ant 1



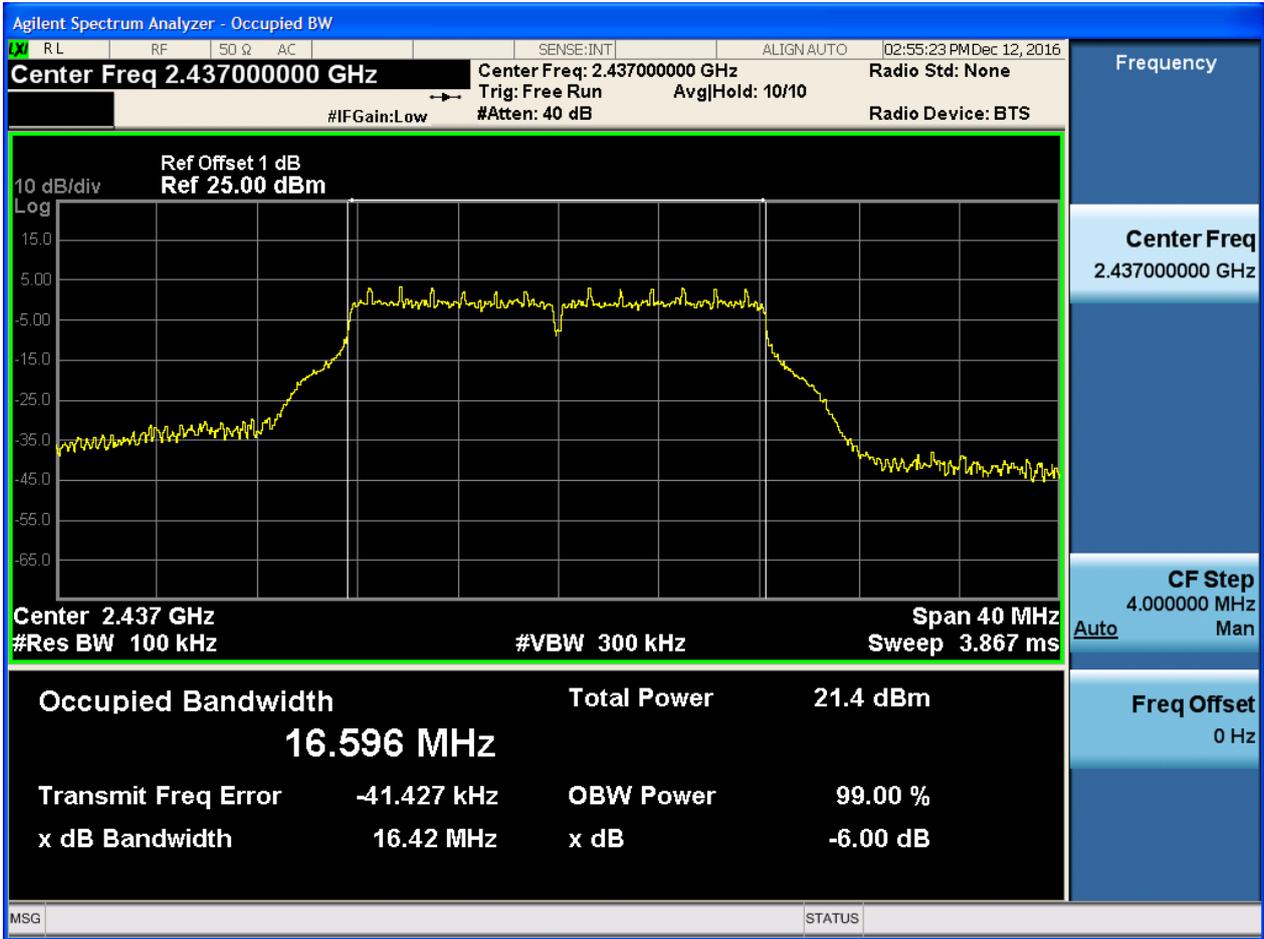


2.26 11G CDD L@Ant 2



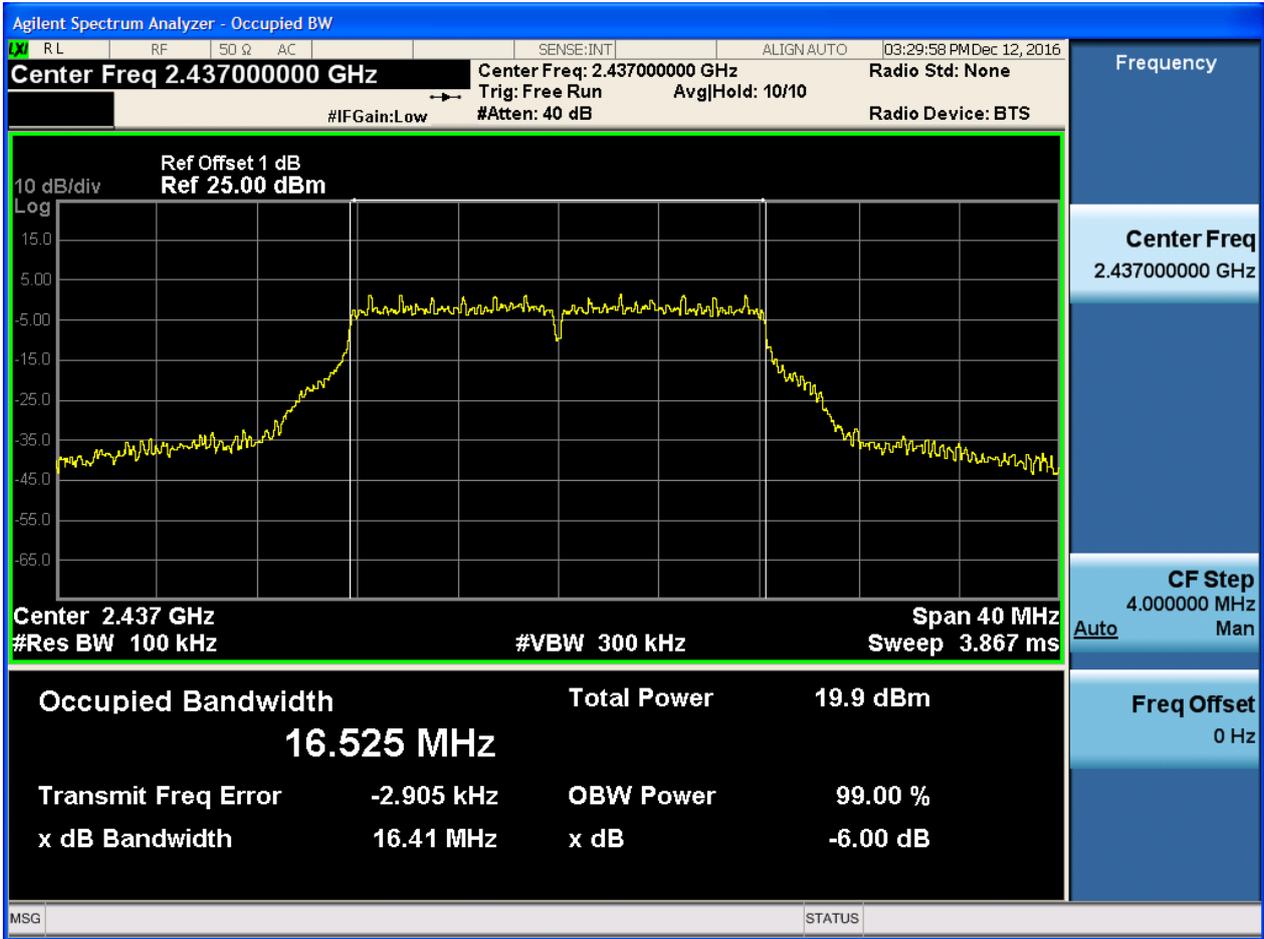


2.27 11G CDD M@Ant 1



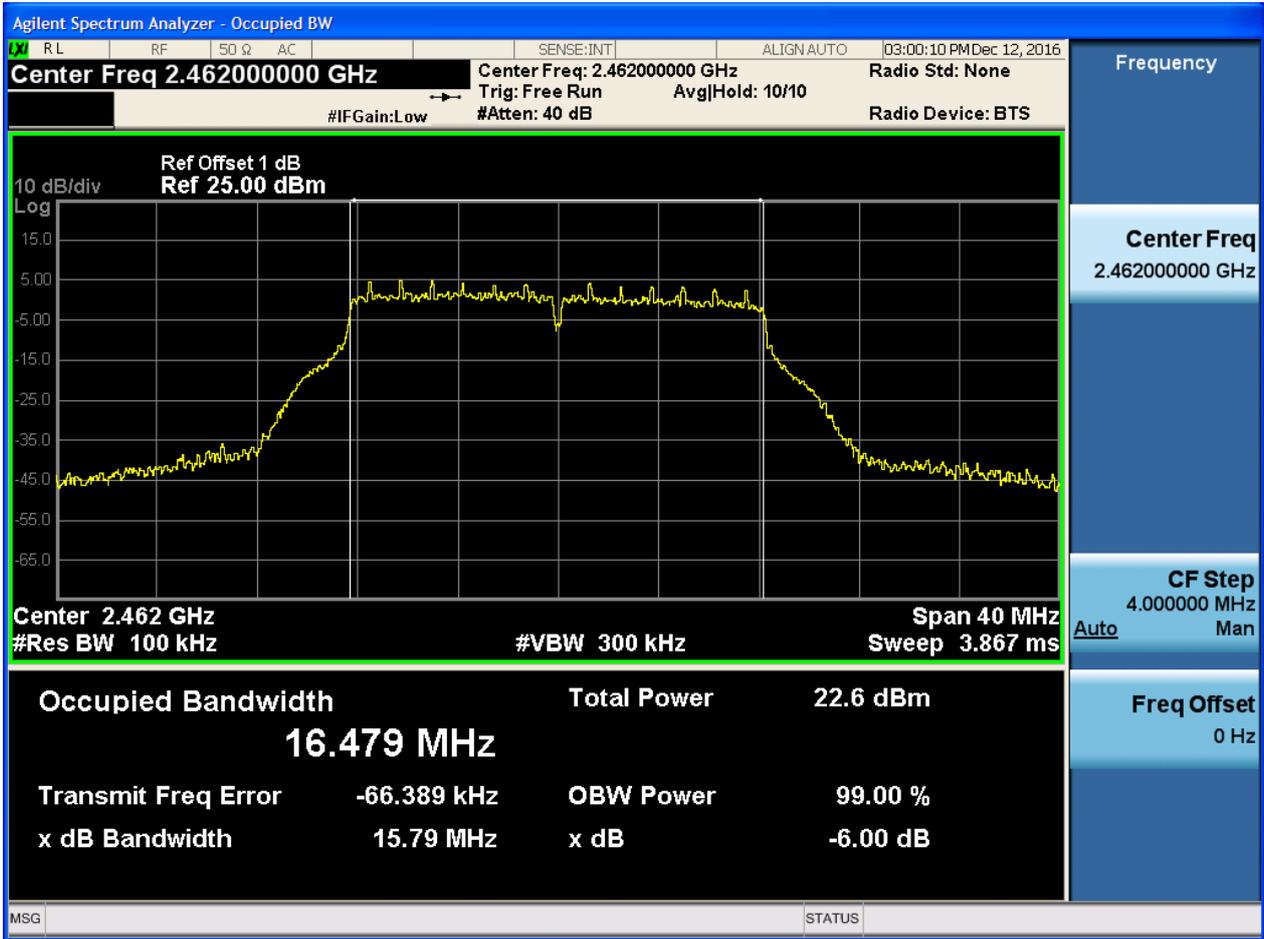


2.28 11G CDD M@Ant 2





2.29 11G CDD H@Ant 1





2.30 11G CDD H@Ant 2





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
11B	L	2412	Ant 1	10.03	pass
11B	L	2412	Ant 2	10.17	pass
11B	M	2437	Ant 1	10.07	pass
11B	M	2437	Ant 2	10.17	pass
11B	H	2462	Ant 1	10.04	pass
11B	H	2462	Ant 2	10.16	pass
11G	L	2412	Ant 1	16.68	pass
11G	L	2412	Ant 2	16.80	pass
11G	M	2437	Ant 1	16.87	pass
11G	M	2437	Ant 2	16.72	pass
11G	H	2462	Ant 1	16.65	pass
11G	H	2462	Ant 2	16.82	pass
11N20	L	2412	Ant 1	17.81	pass
11N20	L	2412	Ant 2	17.95	pass
11N20	M	2437	Ant 1	18.00	pass
11N20	M	2437	Ant 2	17.86	pass
11N20	H	2462	Ant 1	17.86	pass
11N20	H	2462	Ant 2	17.92	pass
11N20m	L	2412	Ant 2	17.87	pass
11N20m	L	2412	Ant 1	17.82	pass
11N20m	M	2437	Ant 2	17.81	pass
11N20m	M	2437	Ant 1	18.03	pass
11N20m	H	2462	Ant 2	17.86	pass
11N20m	H	2462	Ant 1	17.79	pass
11G CDD	L	2412	Ant 1	16.64	pass
11G CDD	L	2412	Ant 2	16.85	pass
11G CDD	M	2437	Ant 1	16.89	pass
11G CDD	M	2437	Ant 2	16.78	pass
11G CDD	H	2462	Ant 1	16.68	pass
11G CDD	H	2462	Ant 2	16.85	pass



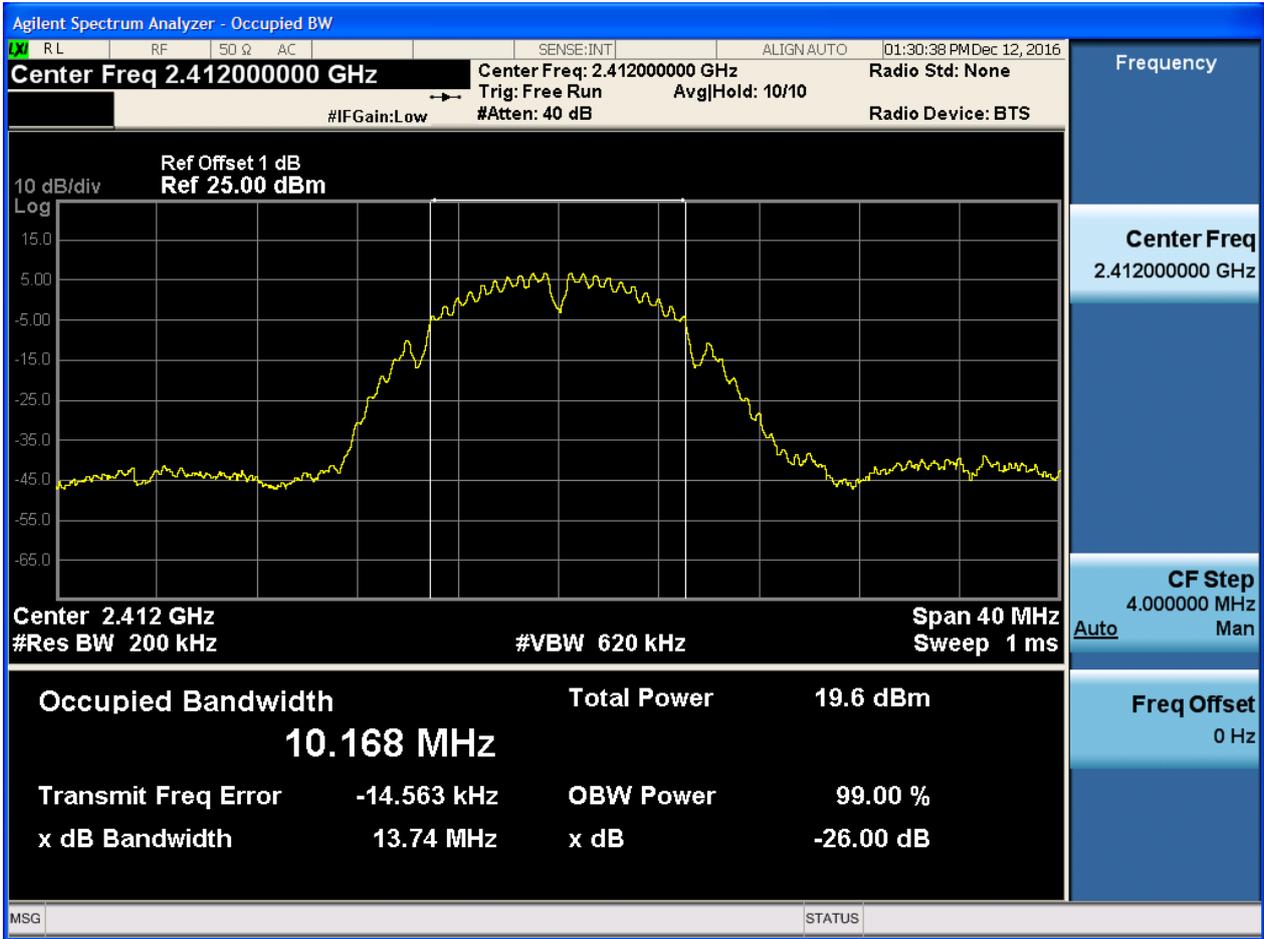
Part II - Test Plots

2.1 11B_L@Ant 1



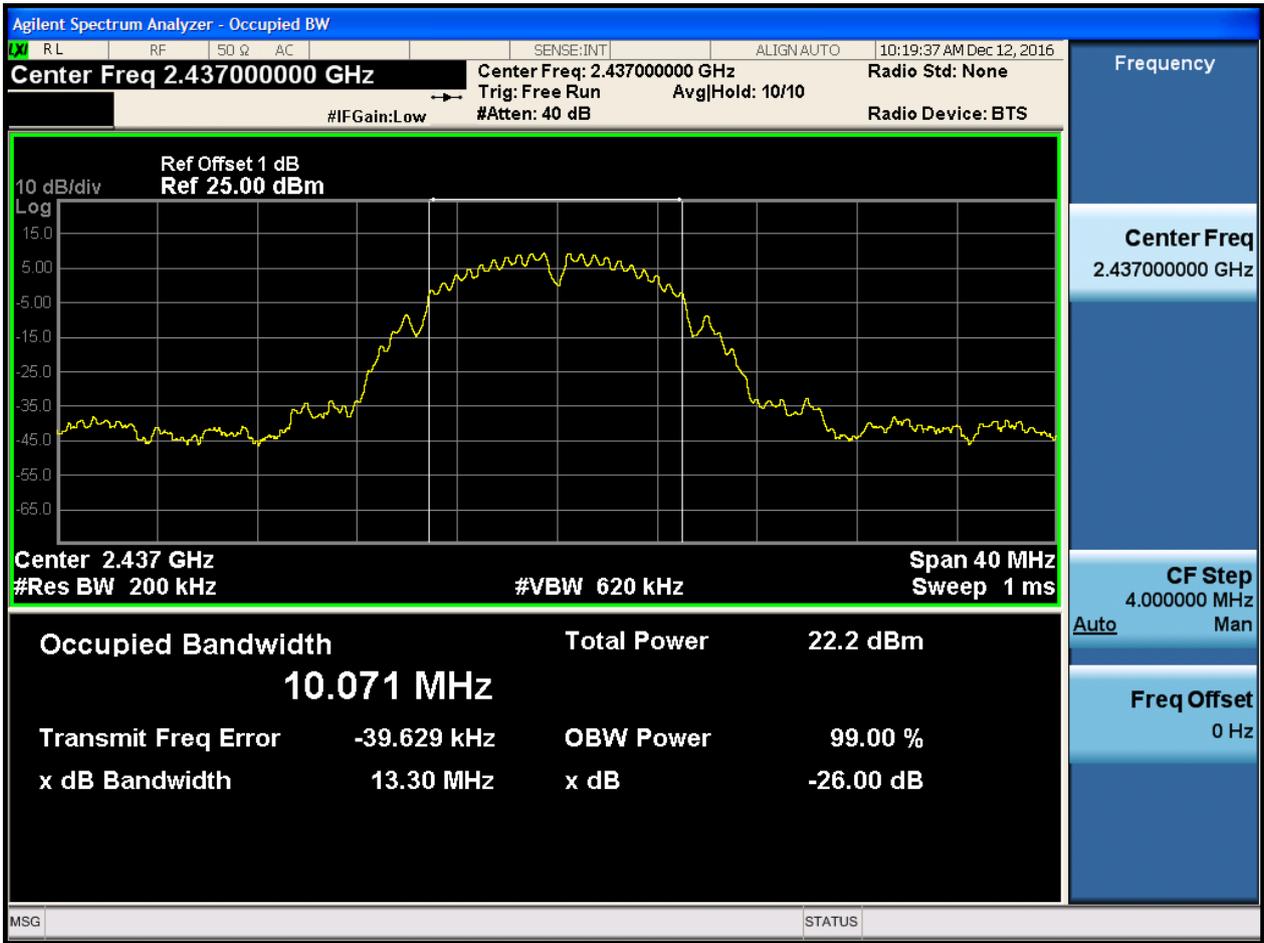


2.2 11B_L@Ant 2



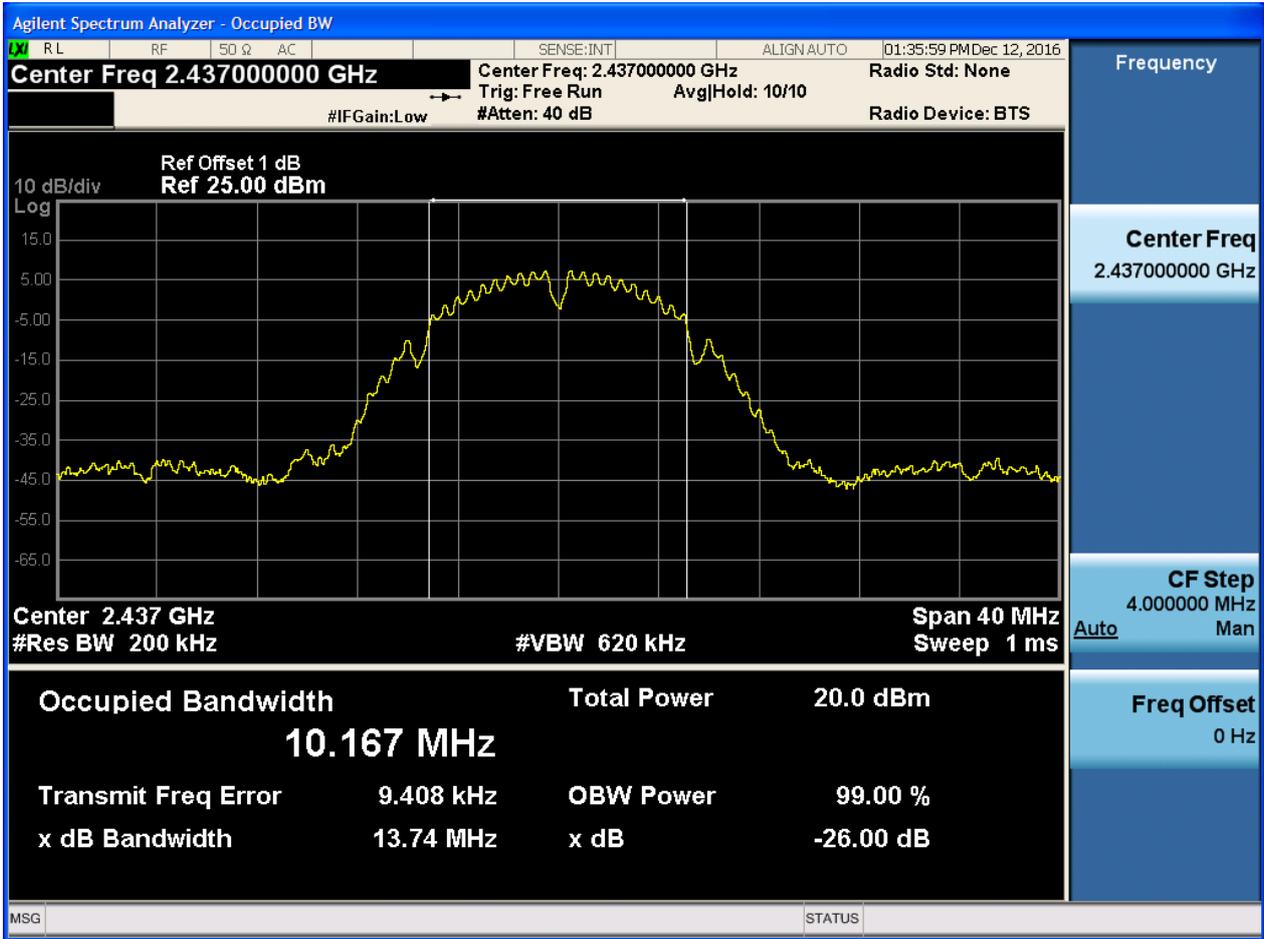


2.3 11B_M@Ant 1



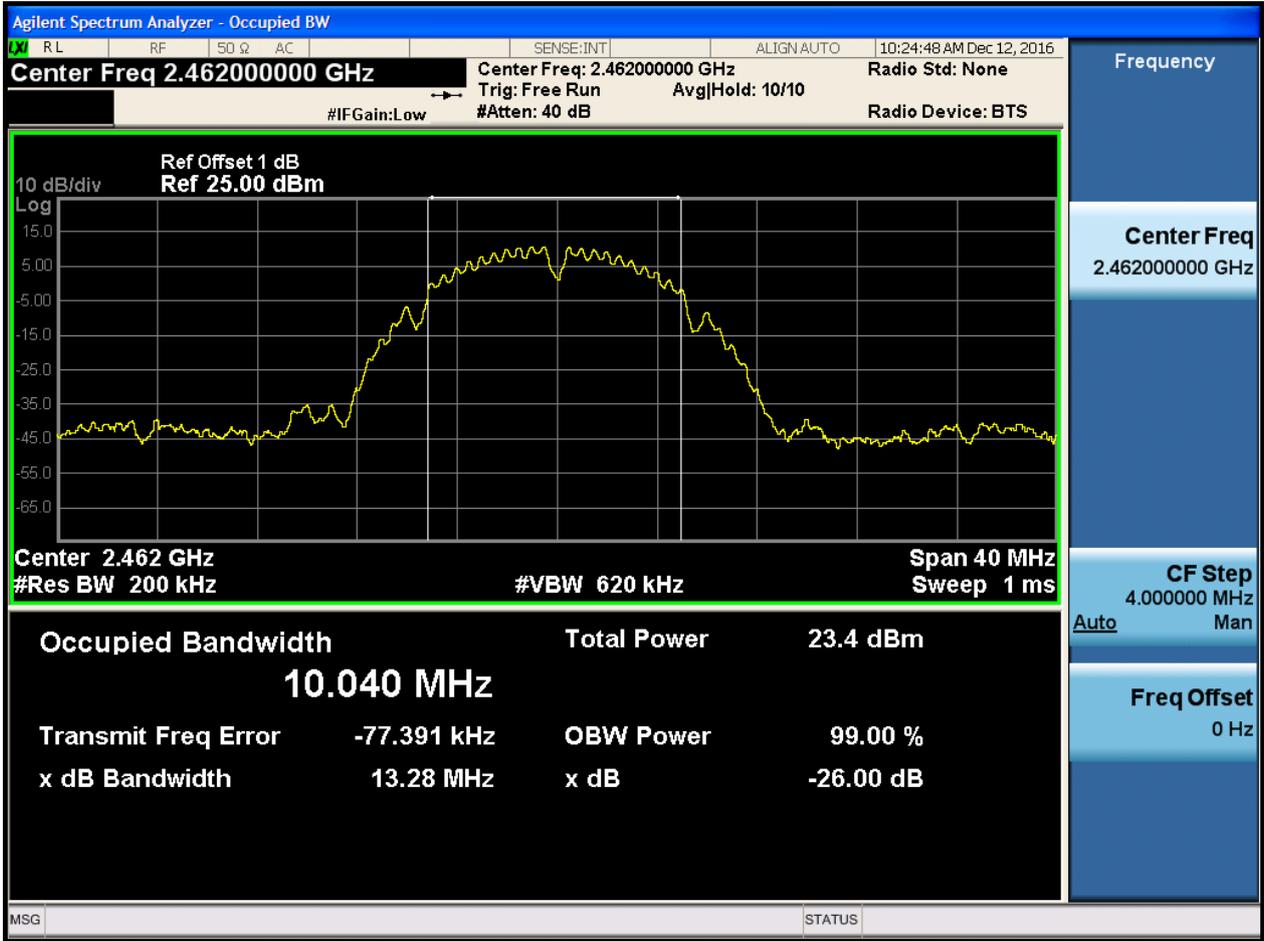


2.4 11B_M@Ant 2



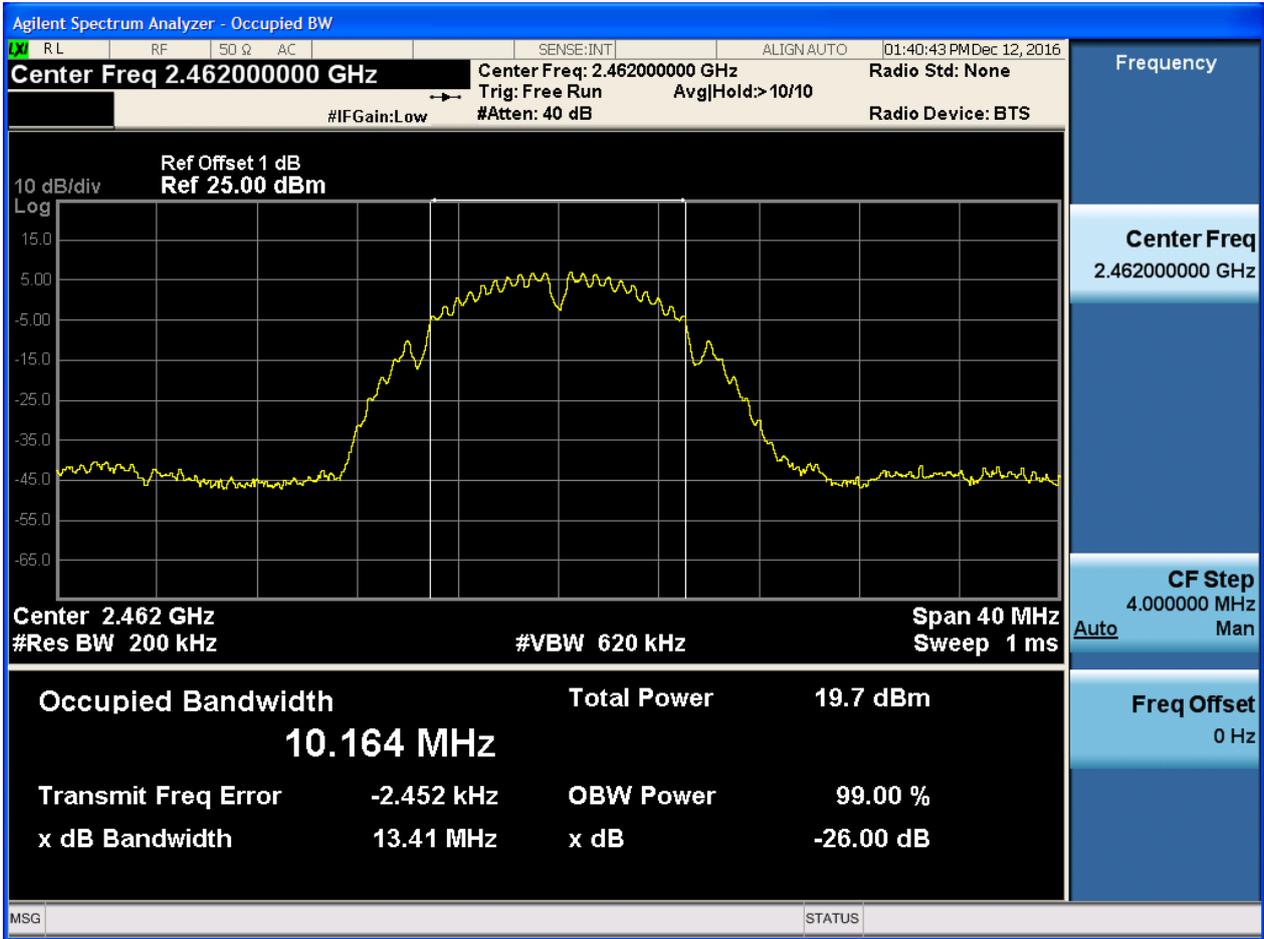


2.5 11B_H@Ant 1



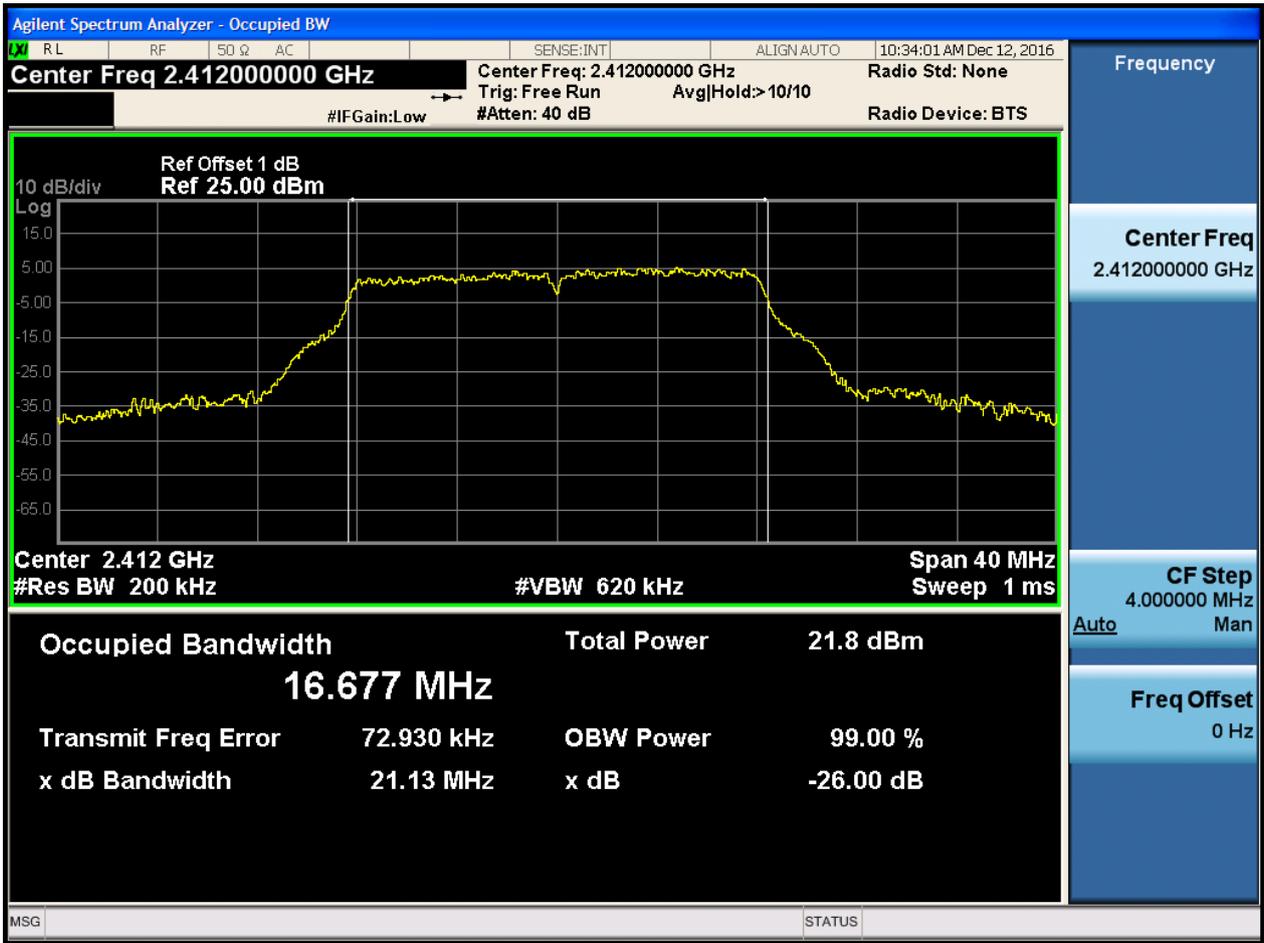


2.6 11B_H@Ant 2



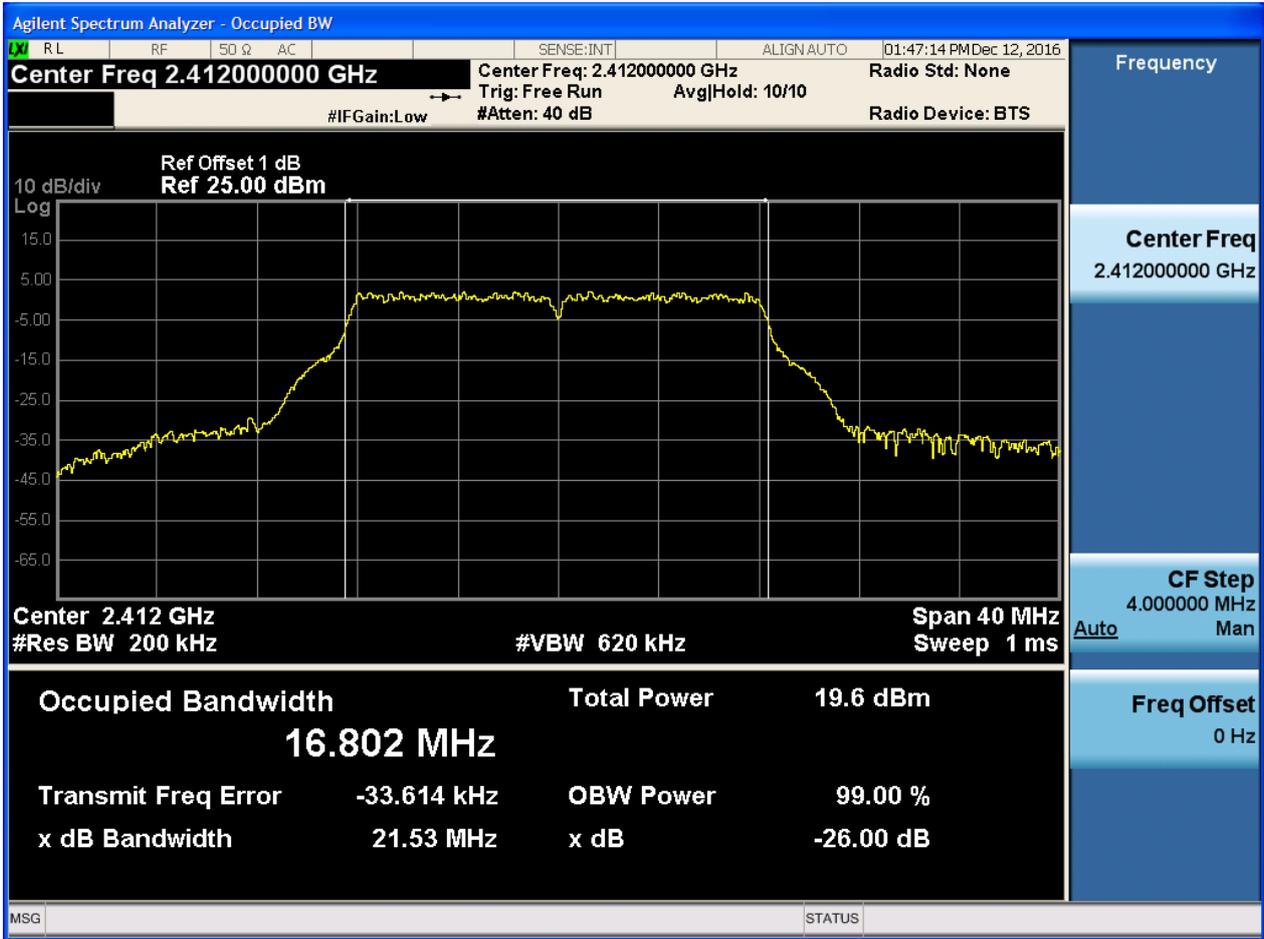


2.7 11G_L@Ant 1



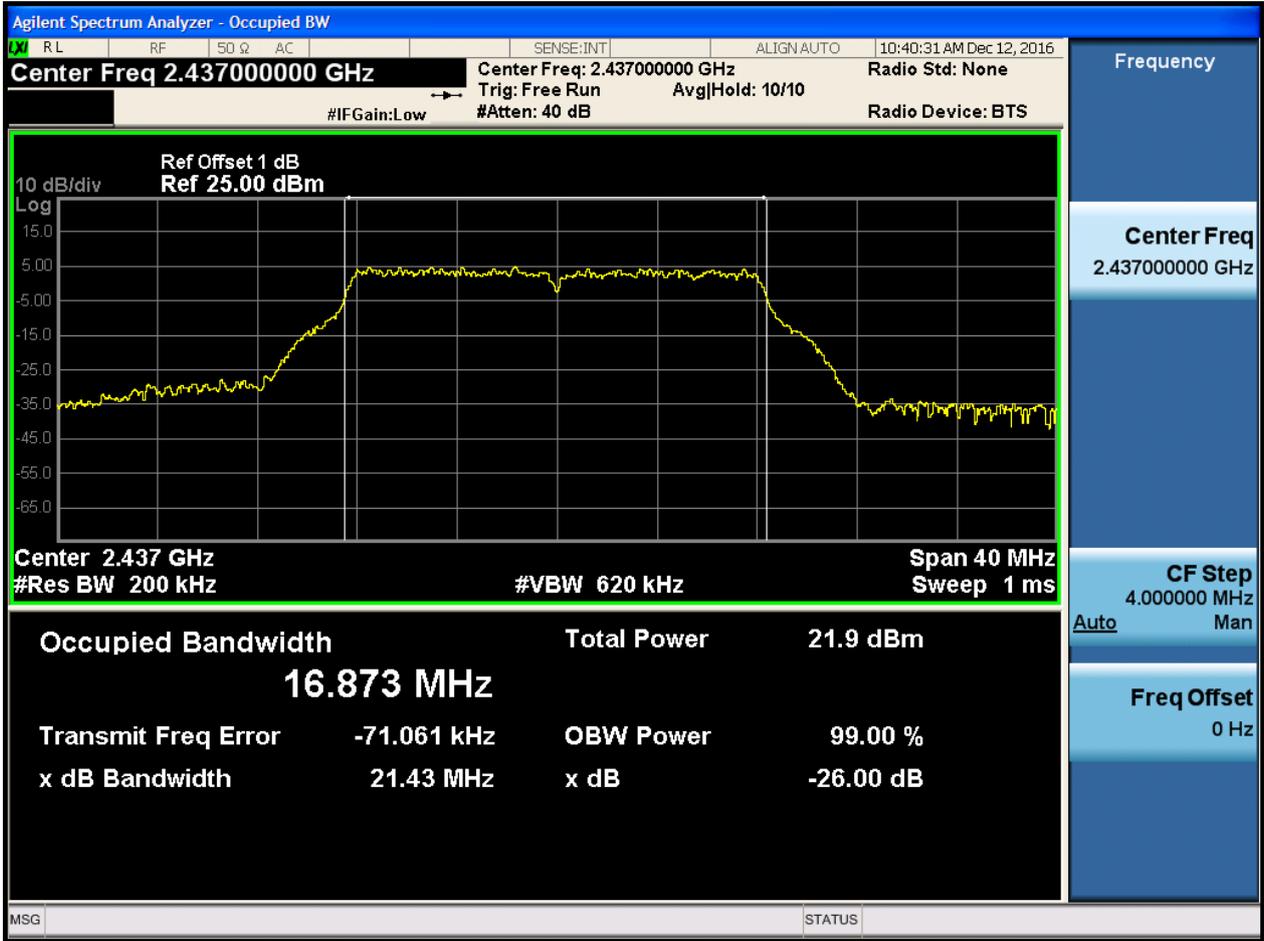


2.8 11G_L@Ant 2



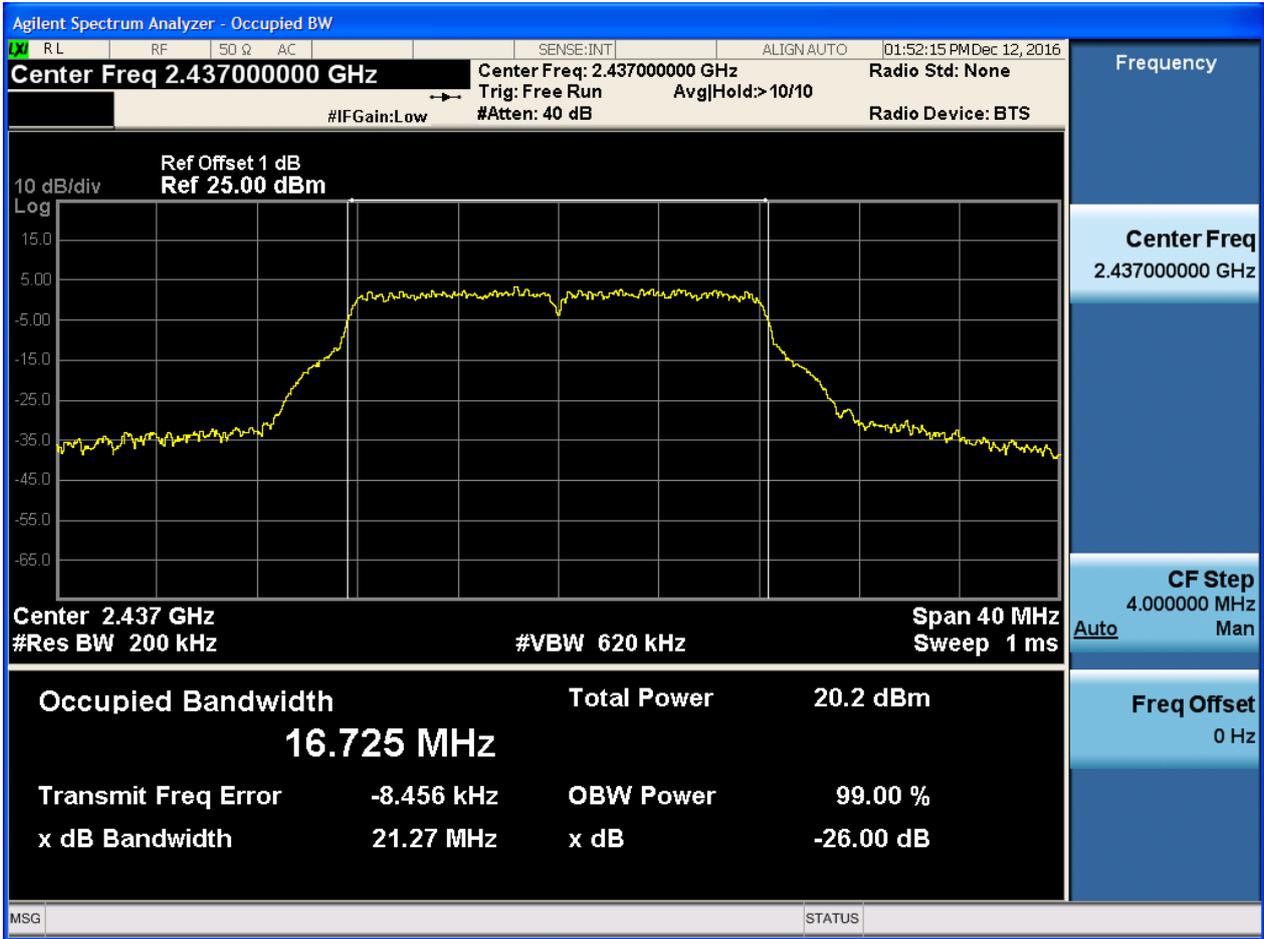


2.9 11G_M@Ant 1



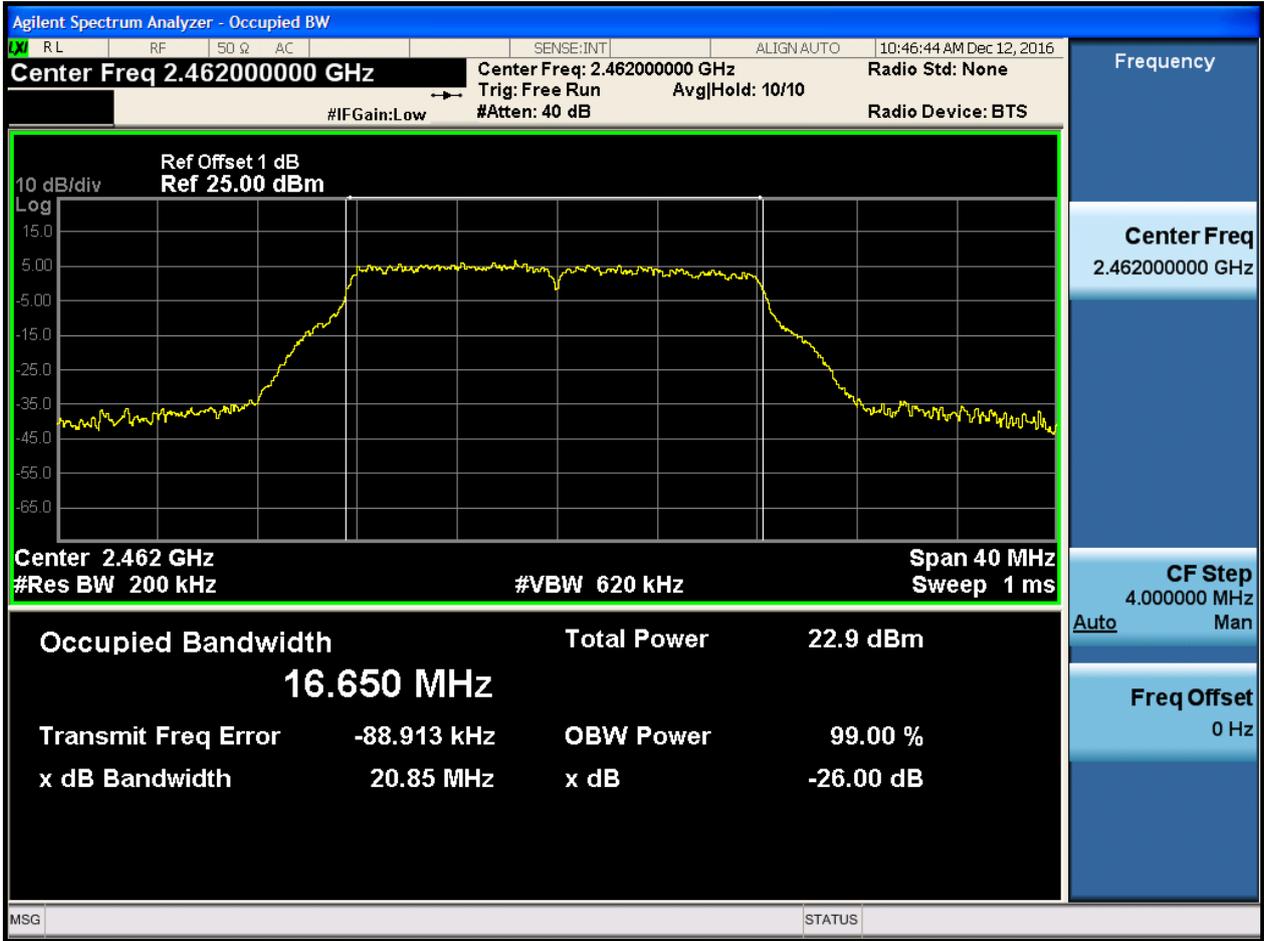


2.10 11G_M@Ant 2



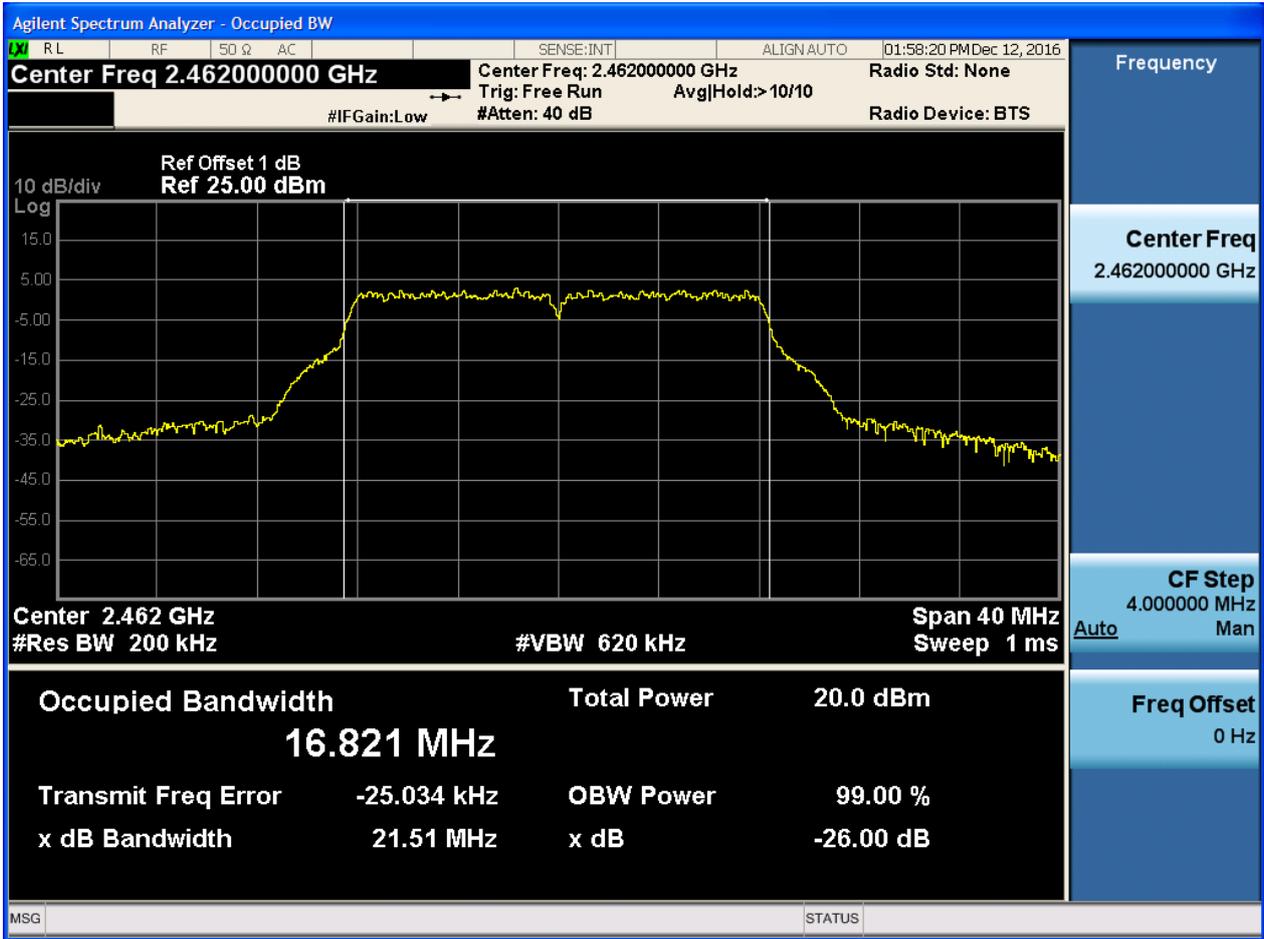


2.11 11G_H@Ant 1



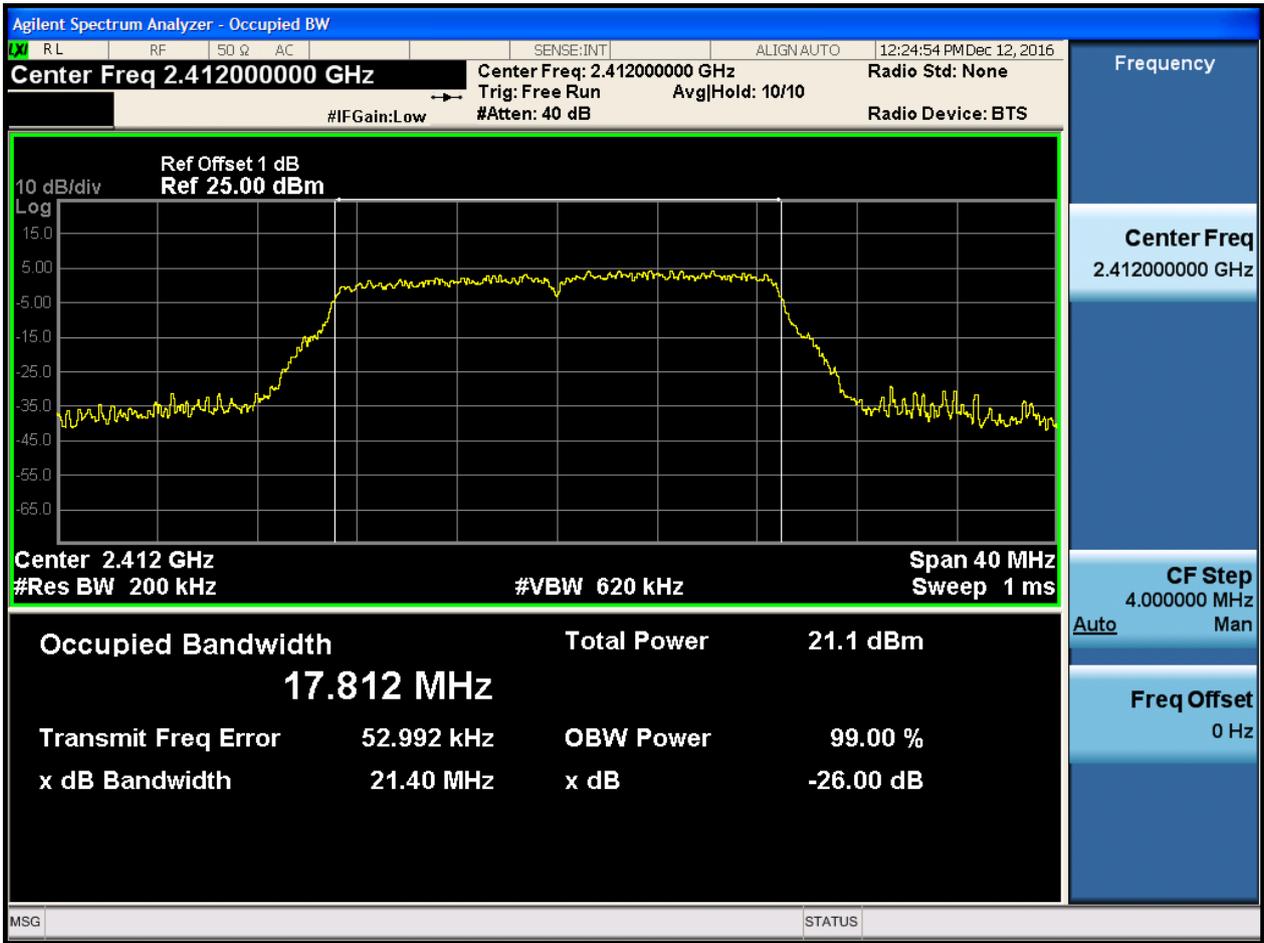


2.12 11G_H@Ant 2



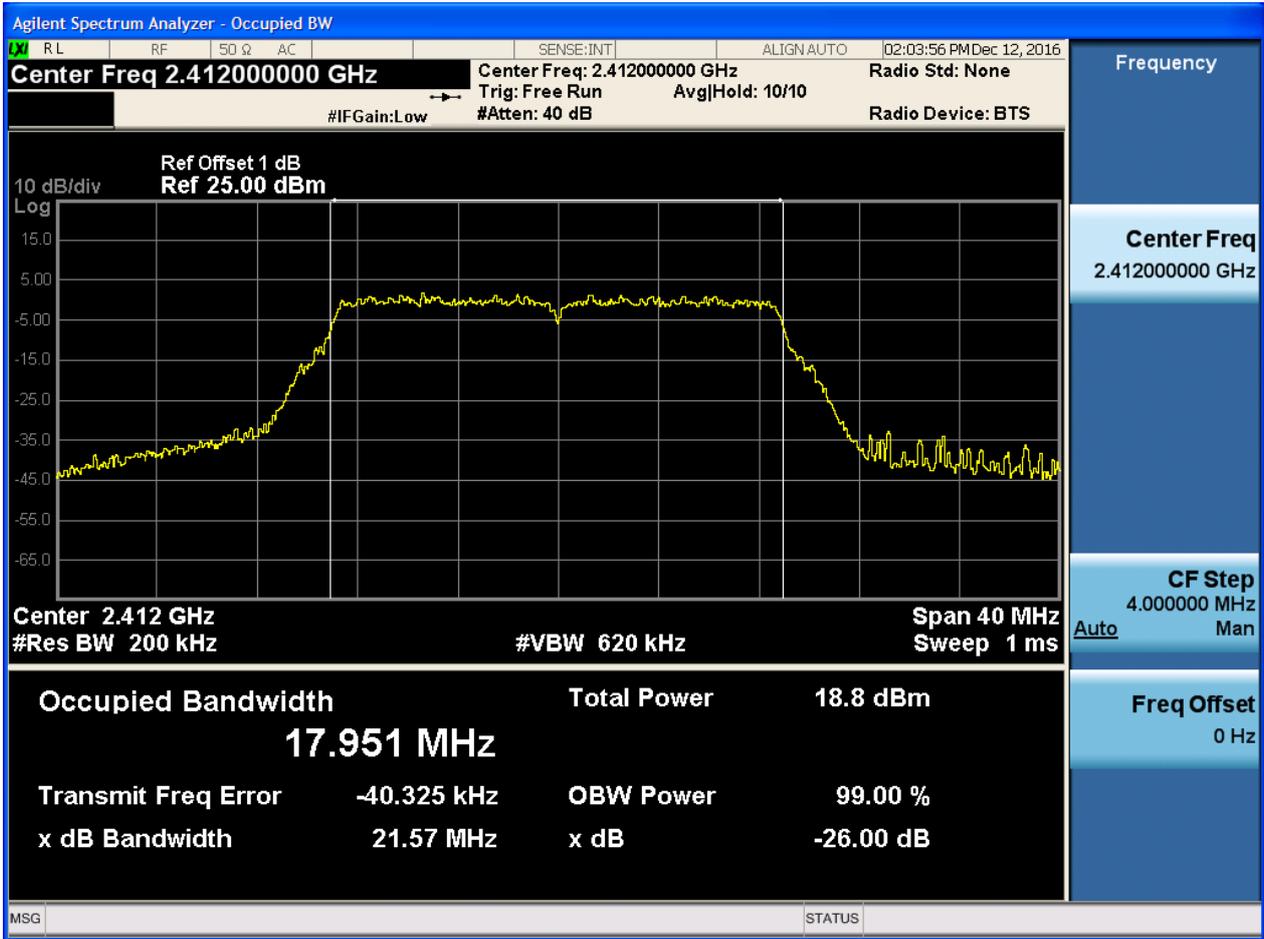


2.13 11N20_L@Ant 1



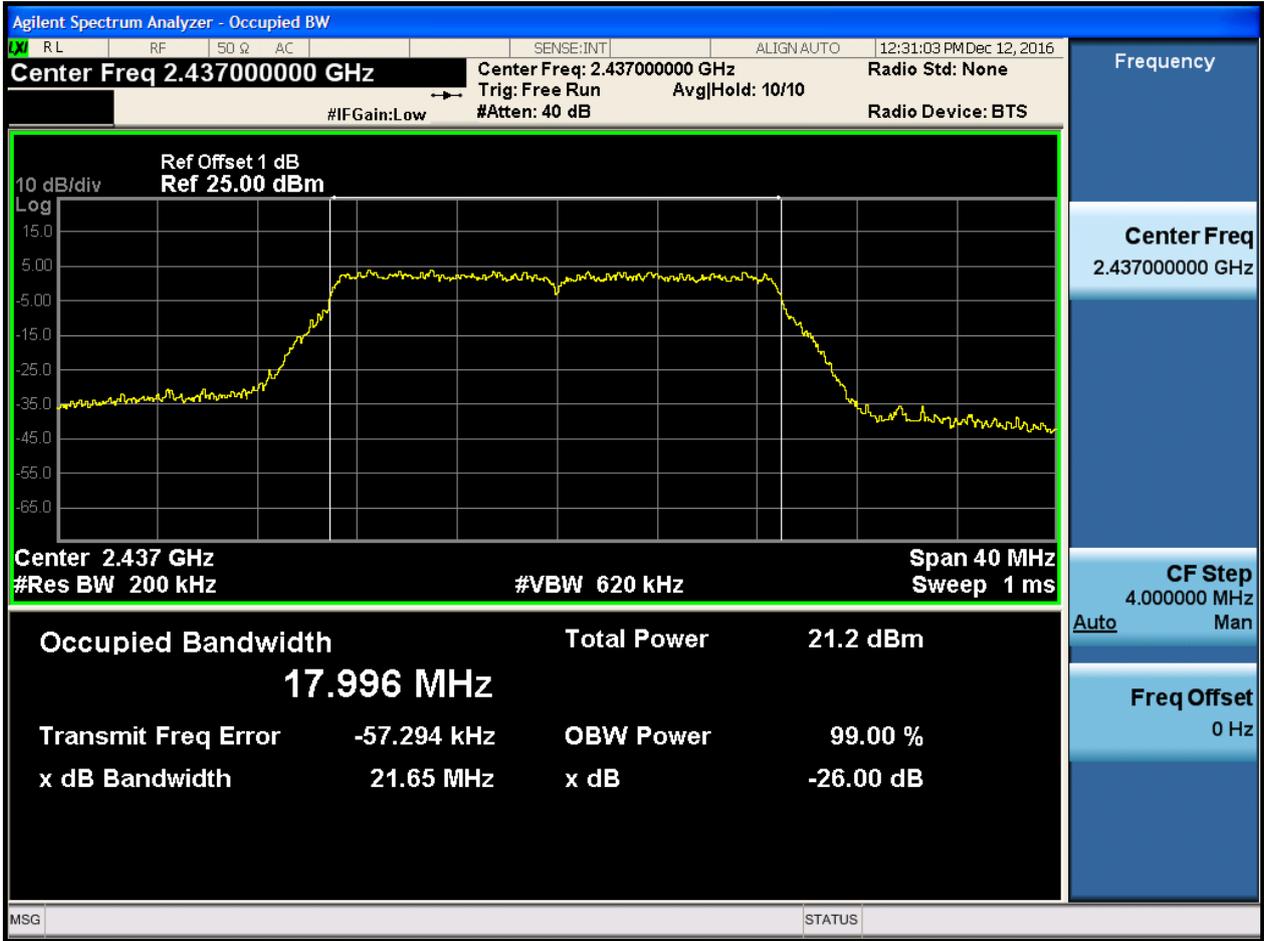


2.14 11N20_L@Ant 2



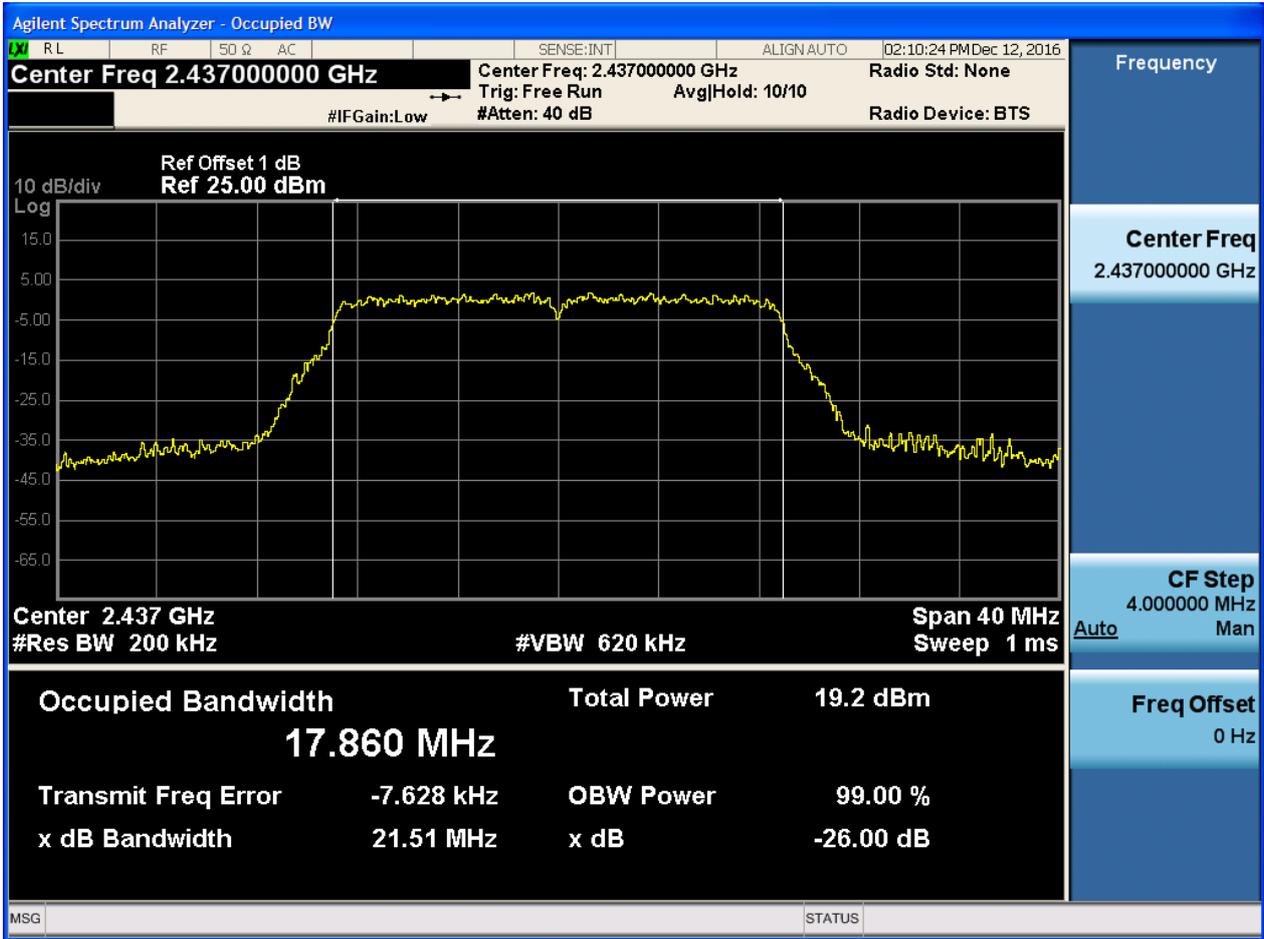


2.15 11N20_M@Ant 1



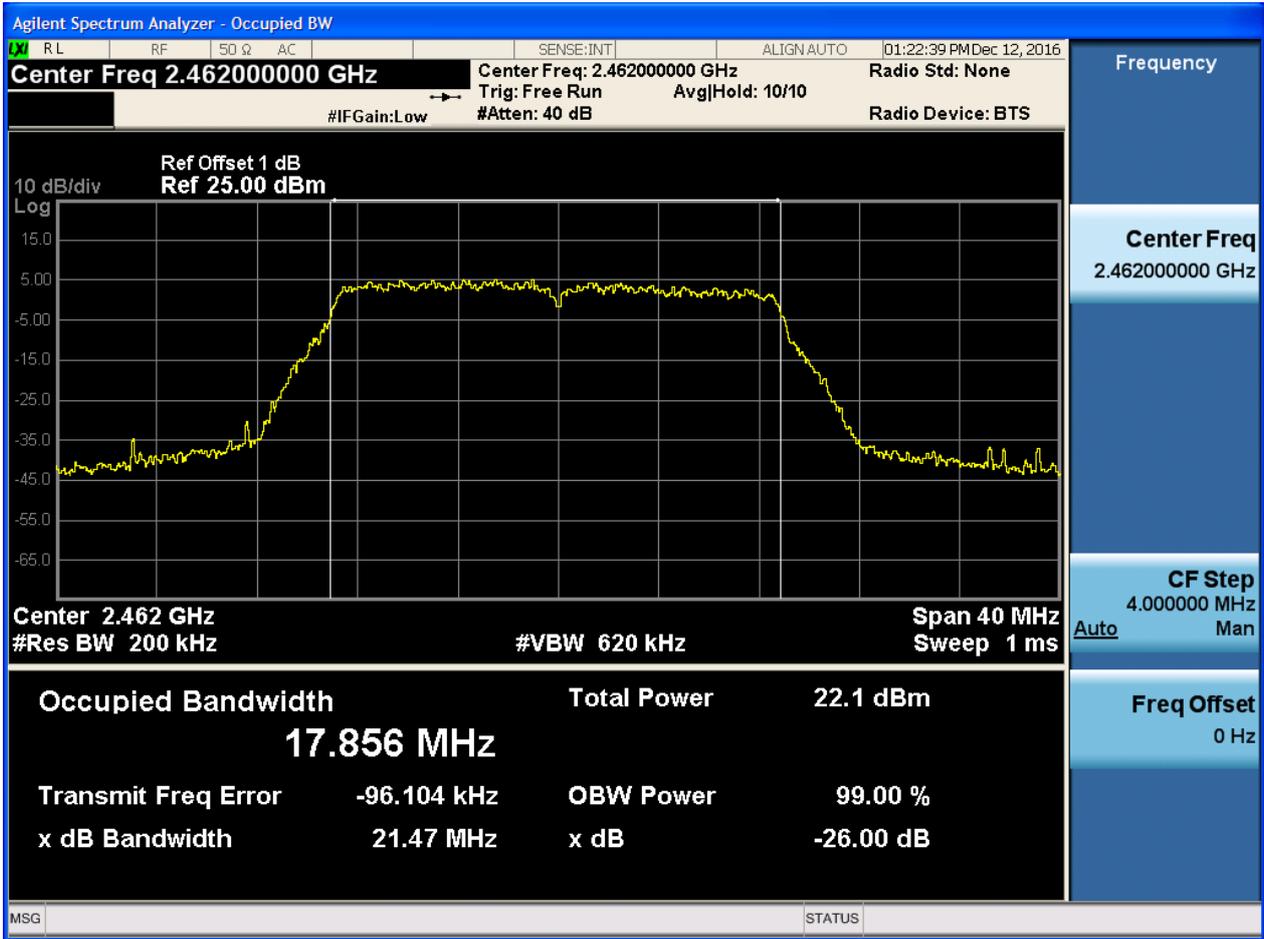


2.16 11N20_M@Ant 2



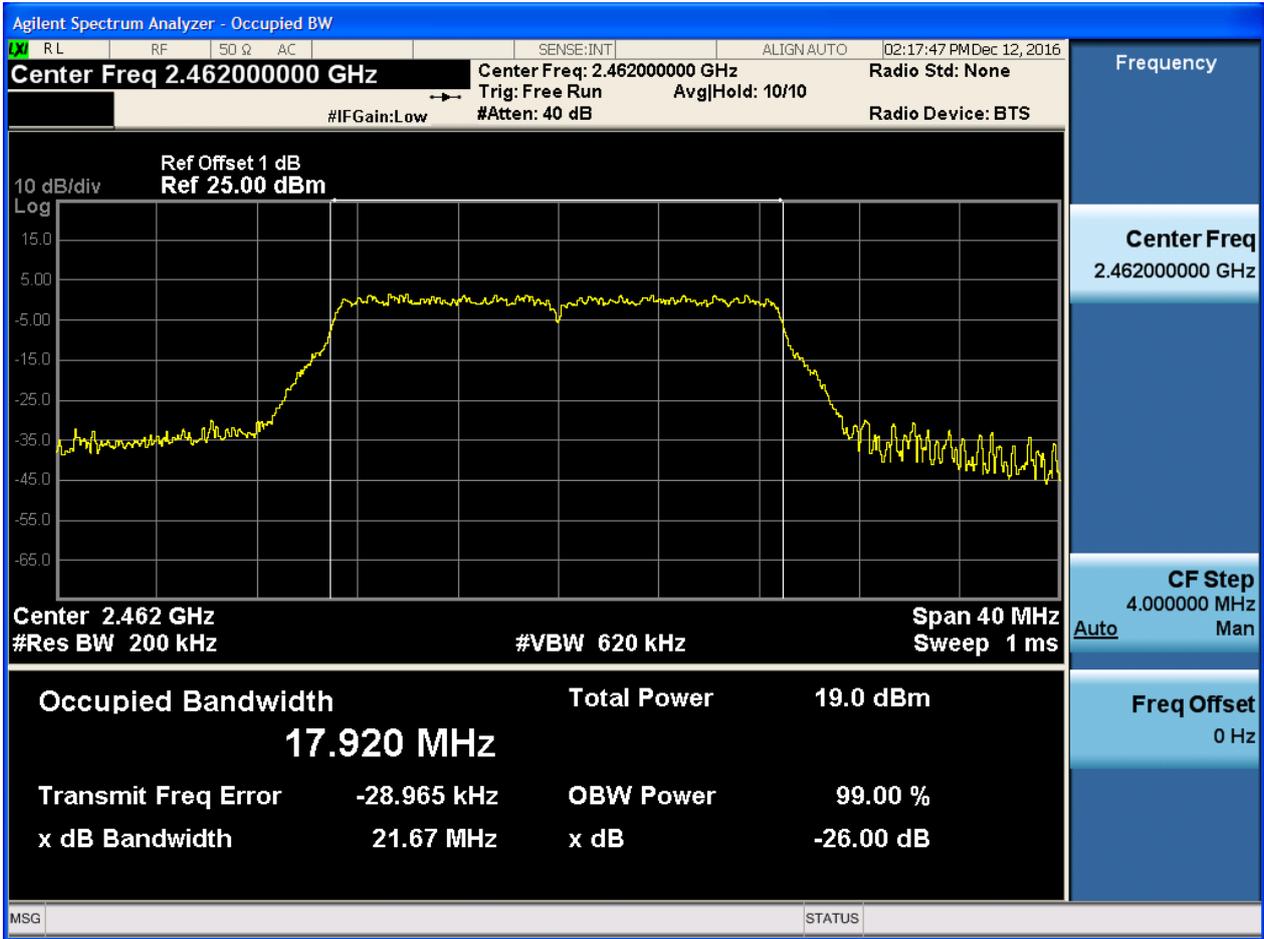


2.17 11N20_H@Ant 1



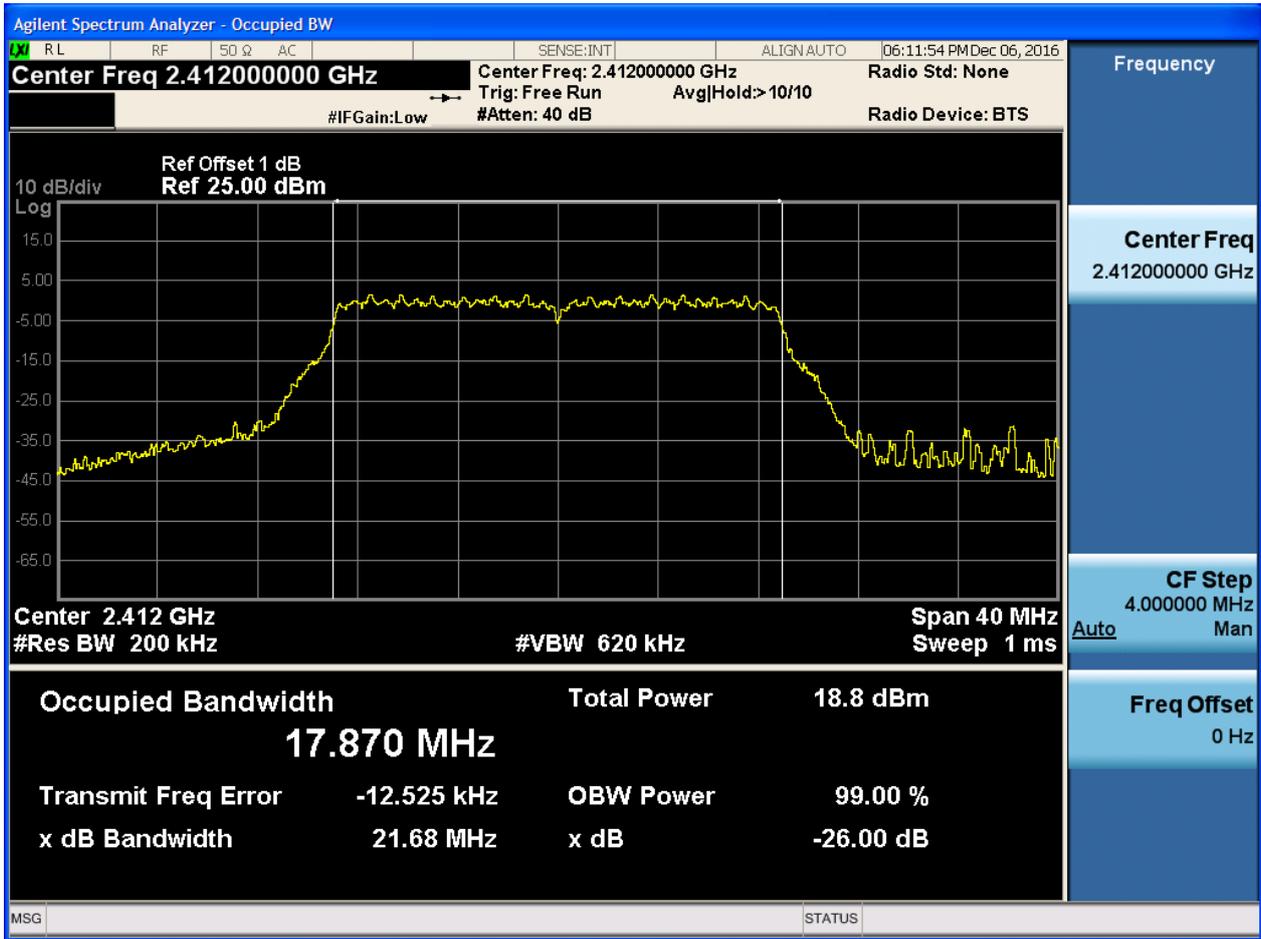


2.18 11N20_H@Ant 2



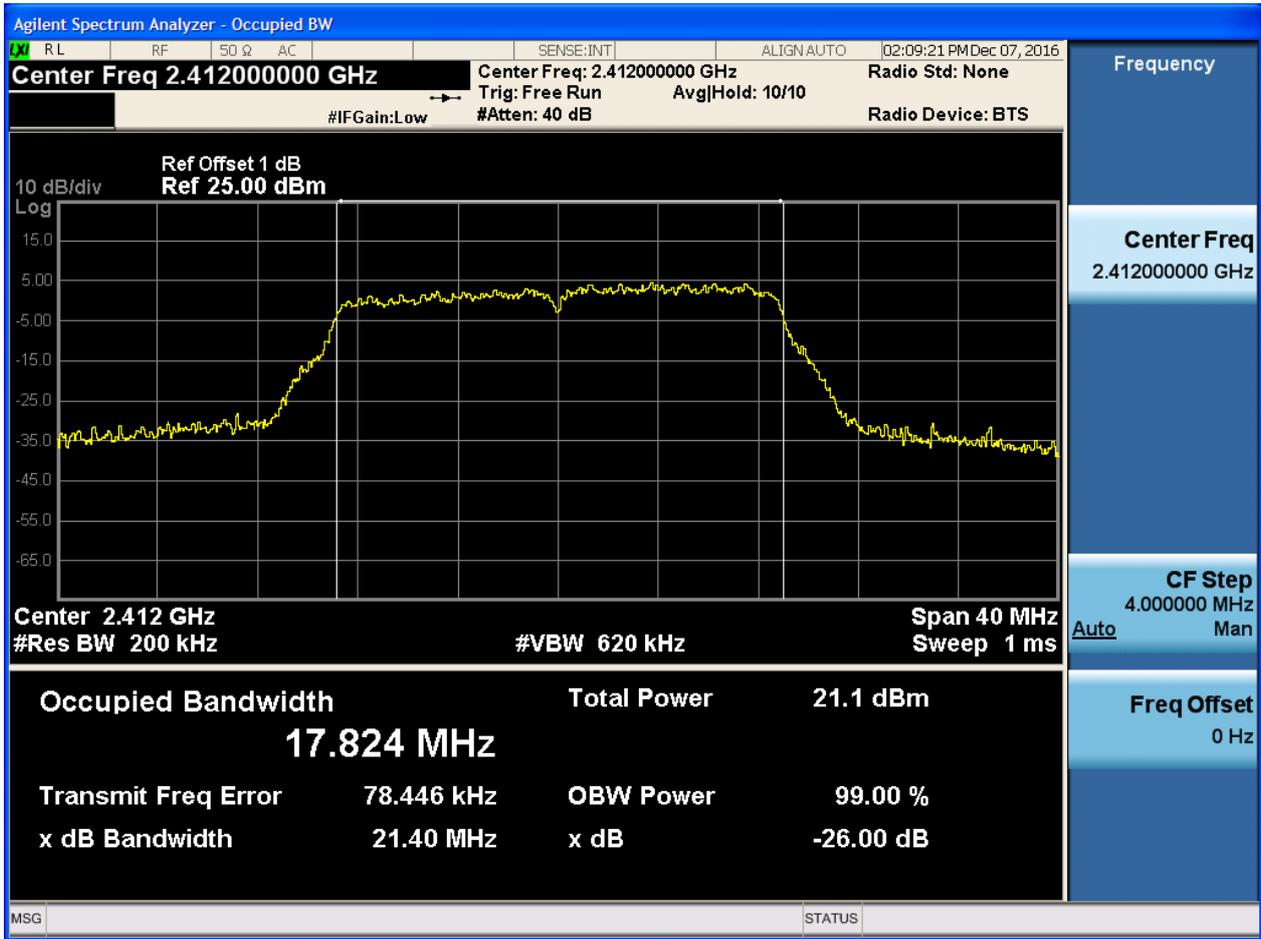


2.19 11N20m_L@Ant 2



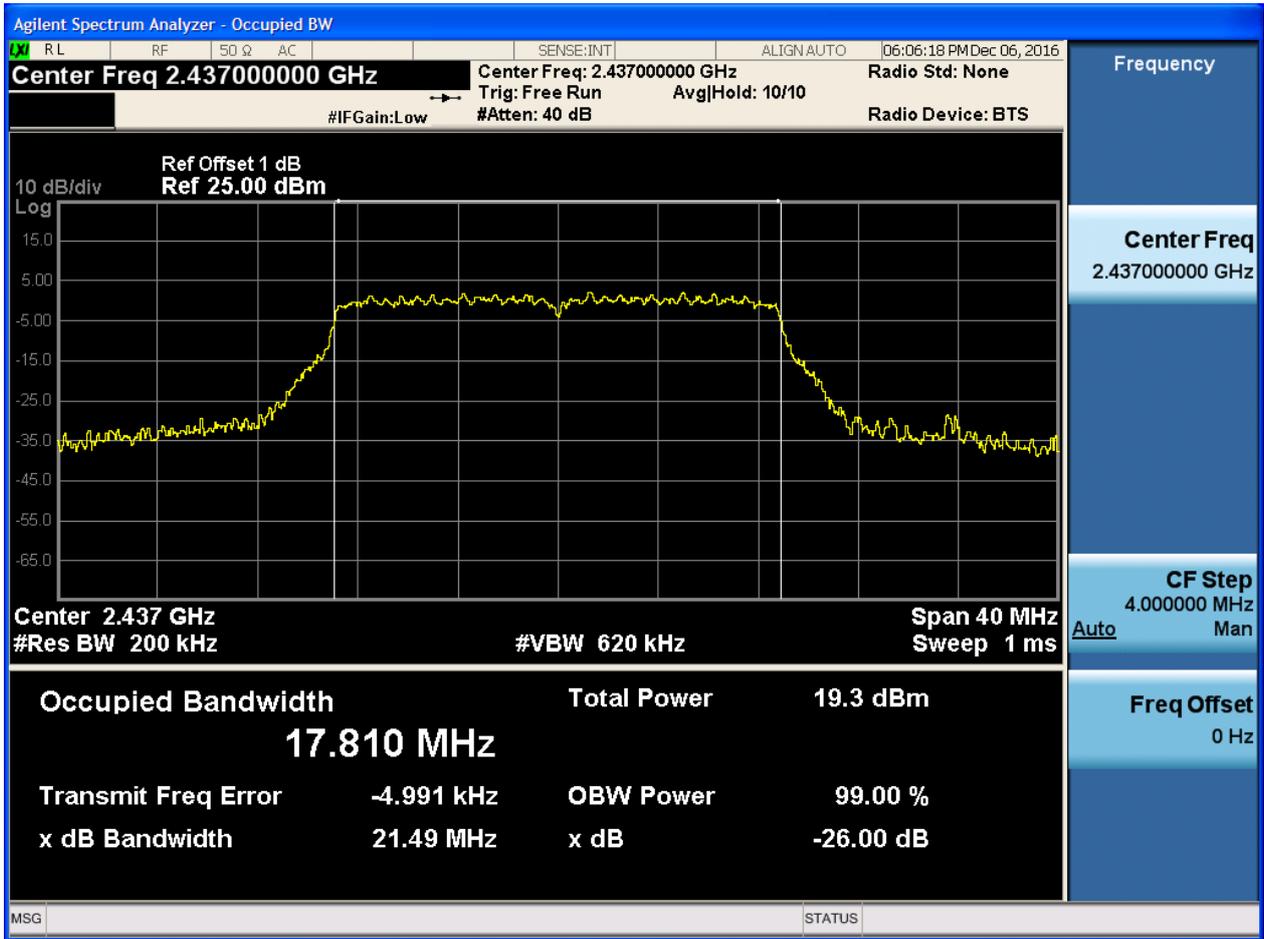


2.20 11N20m_L@Ant 1



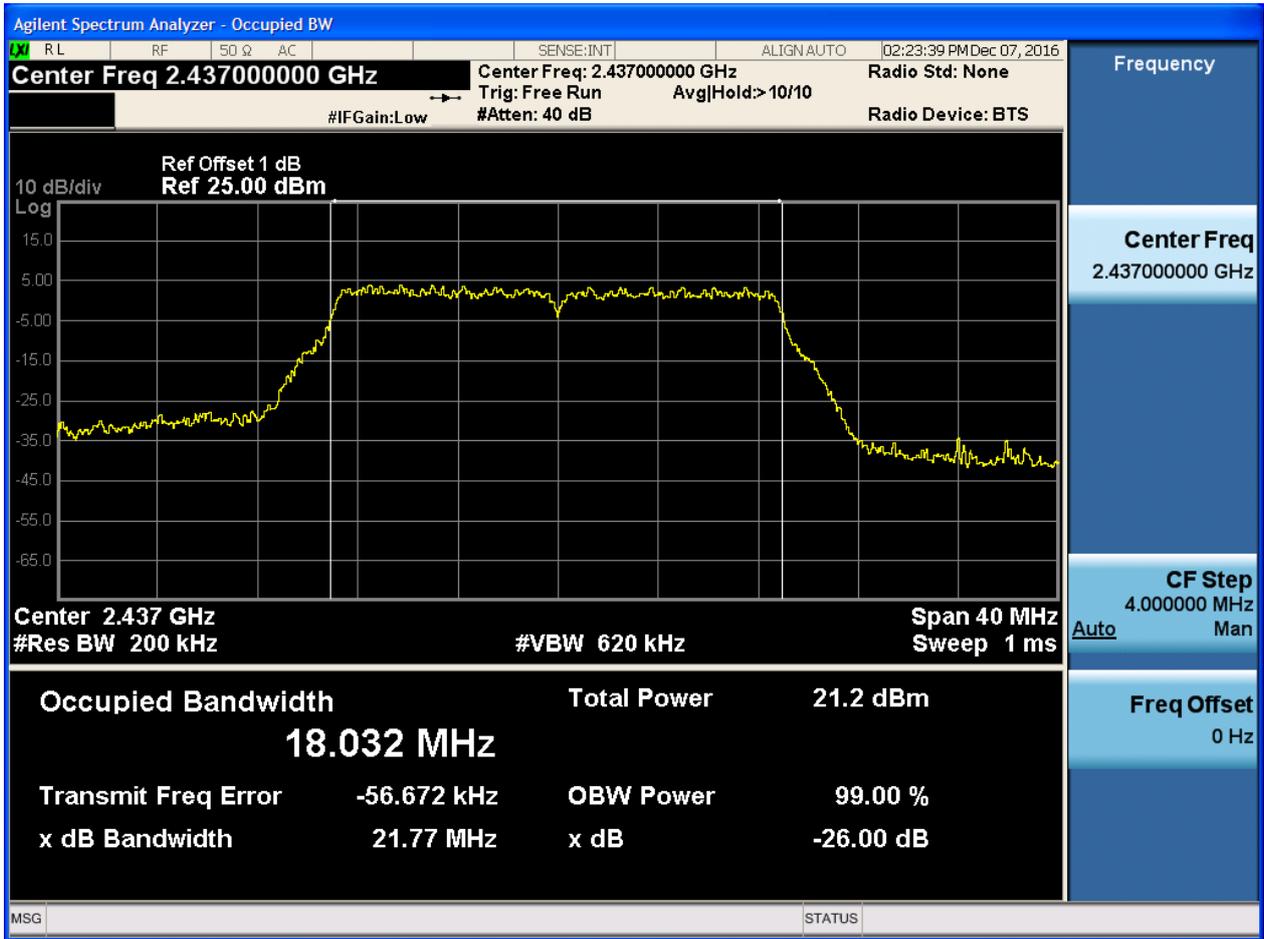


2.21 11N20m_M@Ant 2



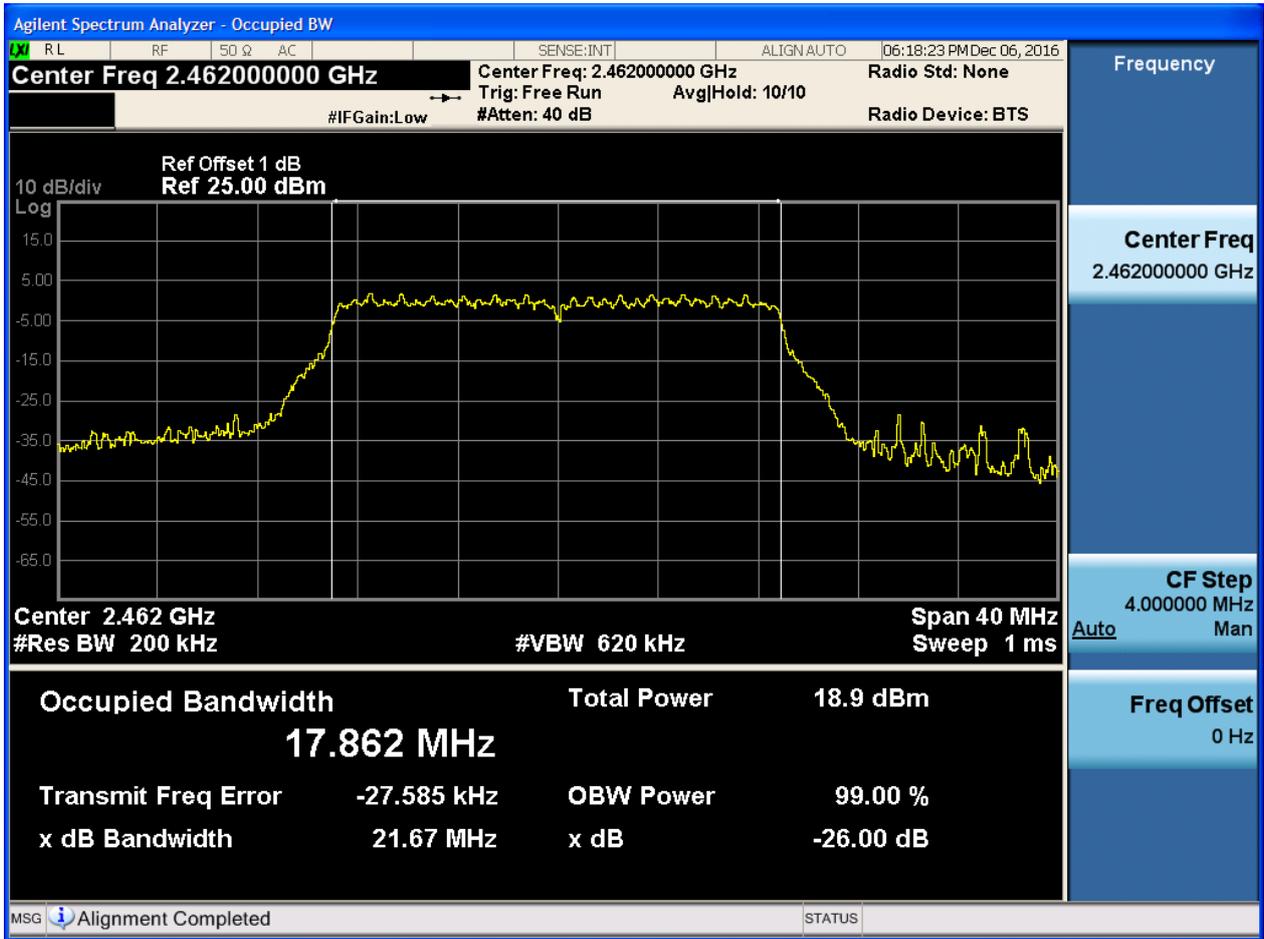


2.22 11N20m_M@Ant 1



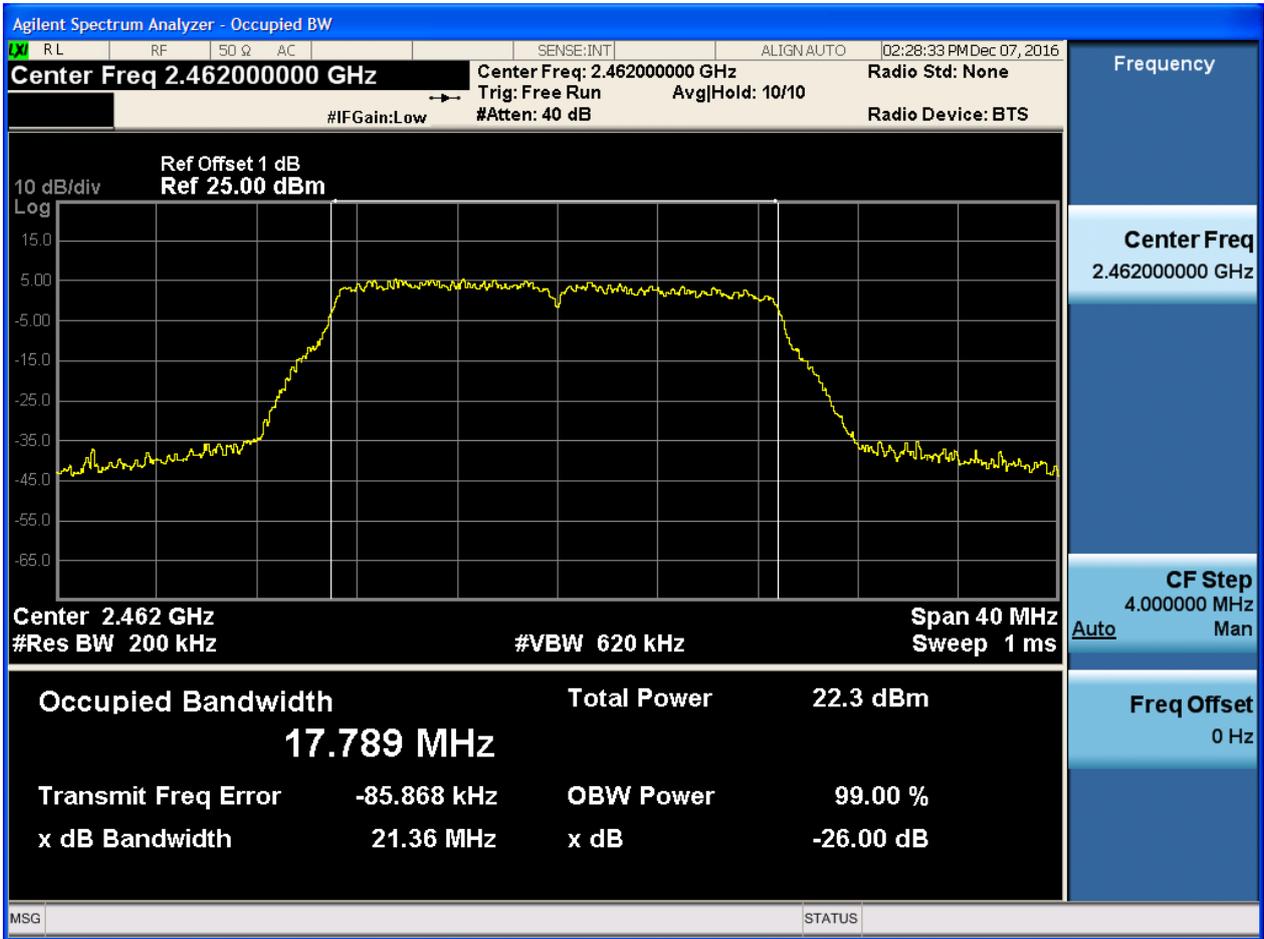


2.23 11N20m_H@Ant 2



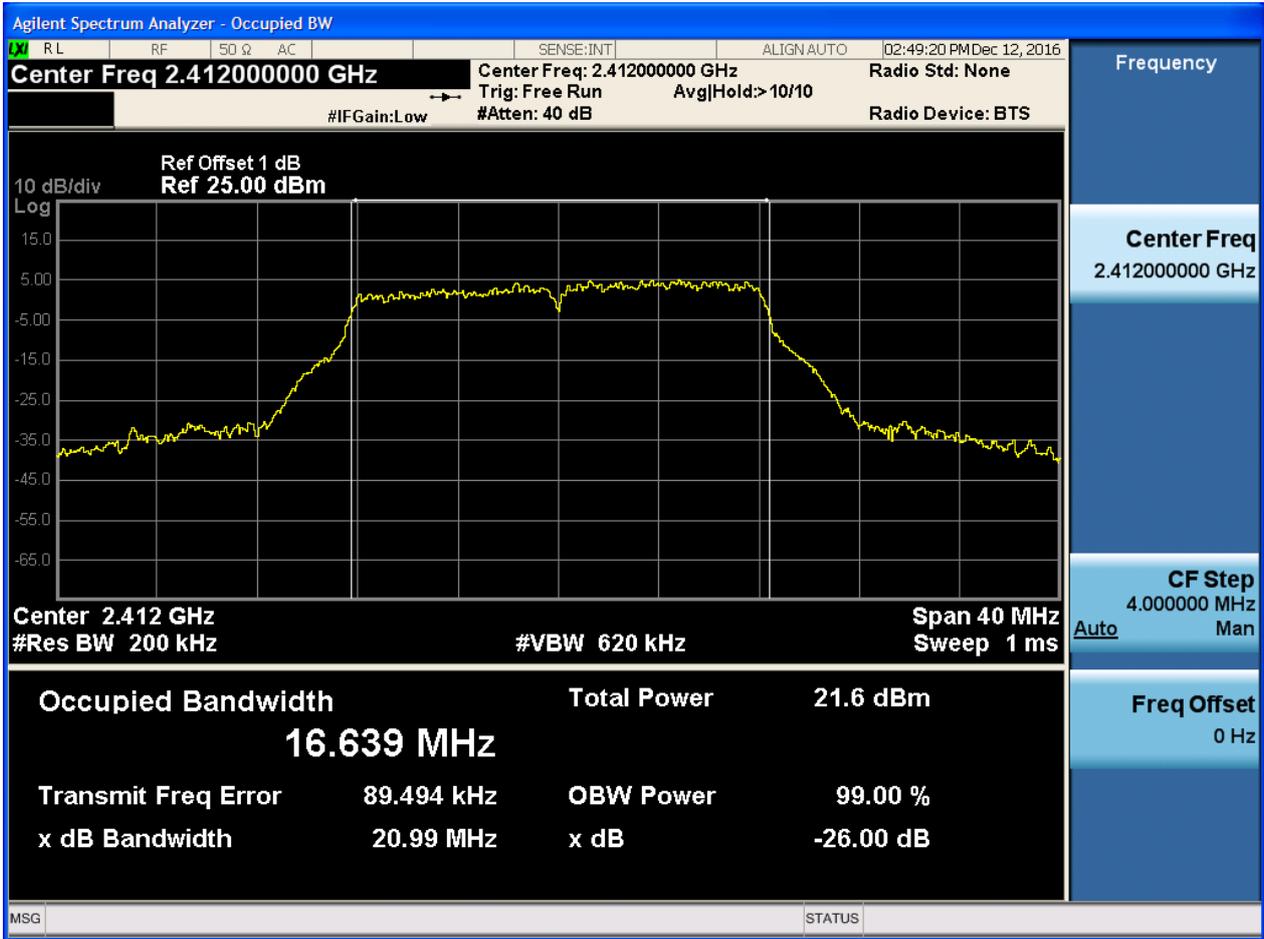


2.24 11N20m_H@Ant 1



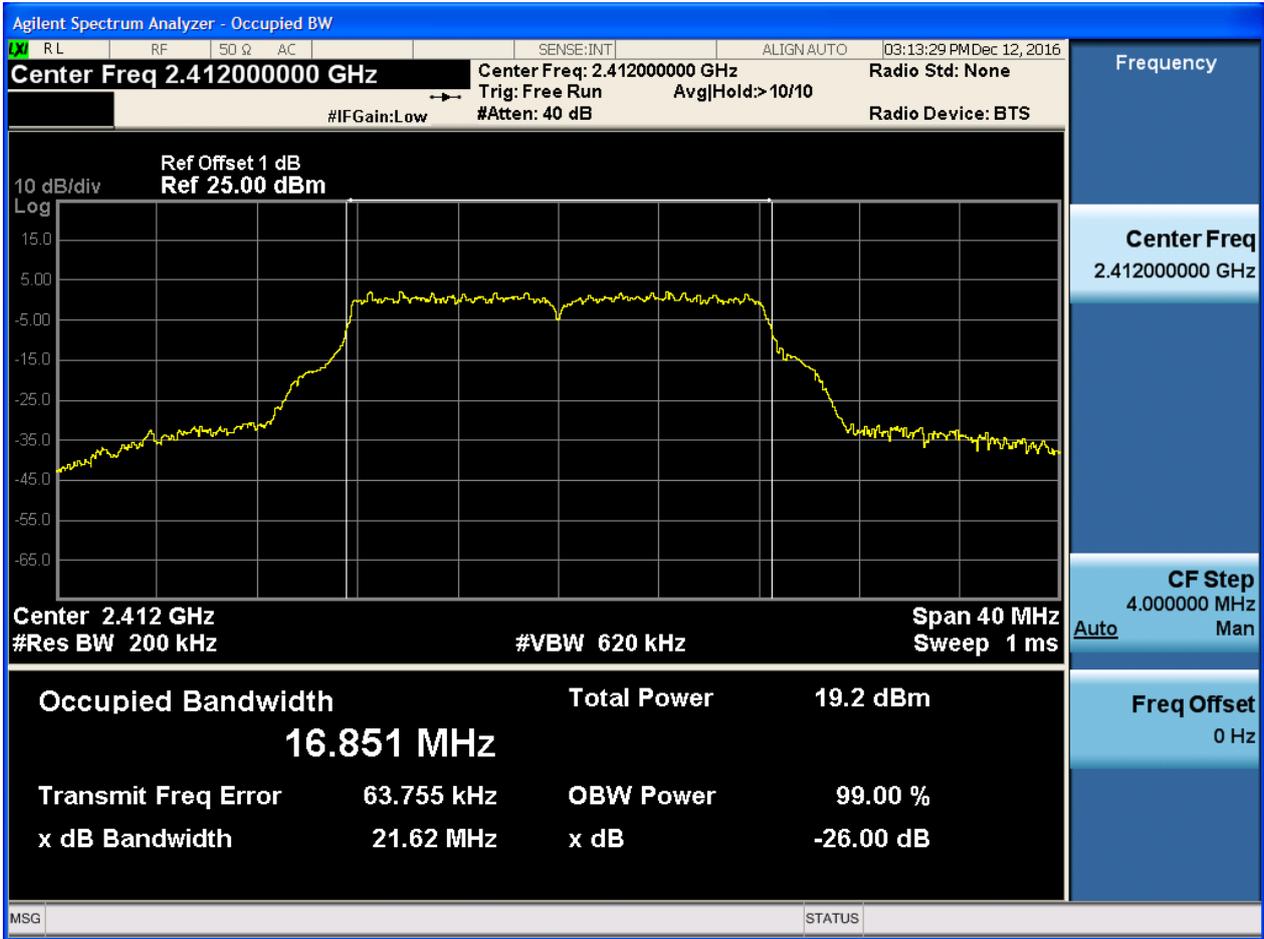


2.25 11G CDD_L@Ant 1



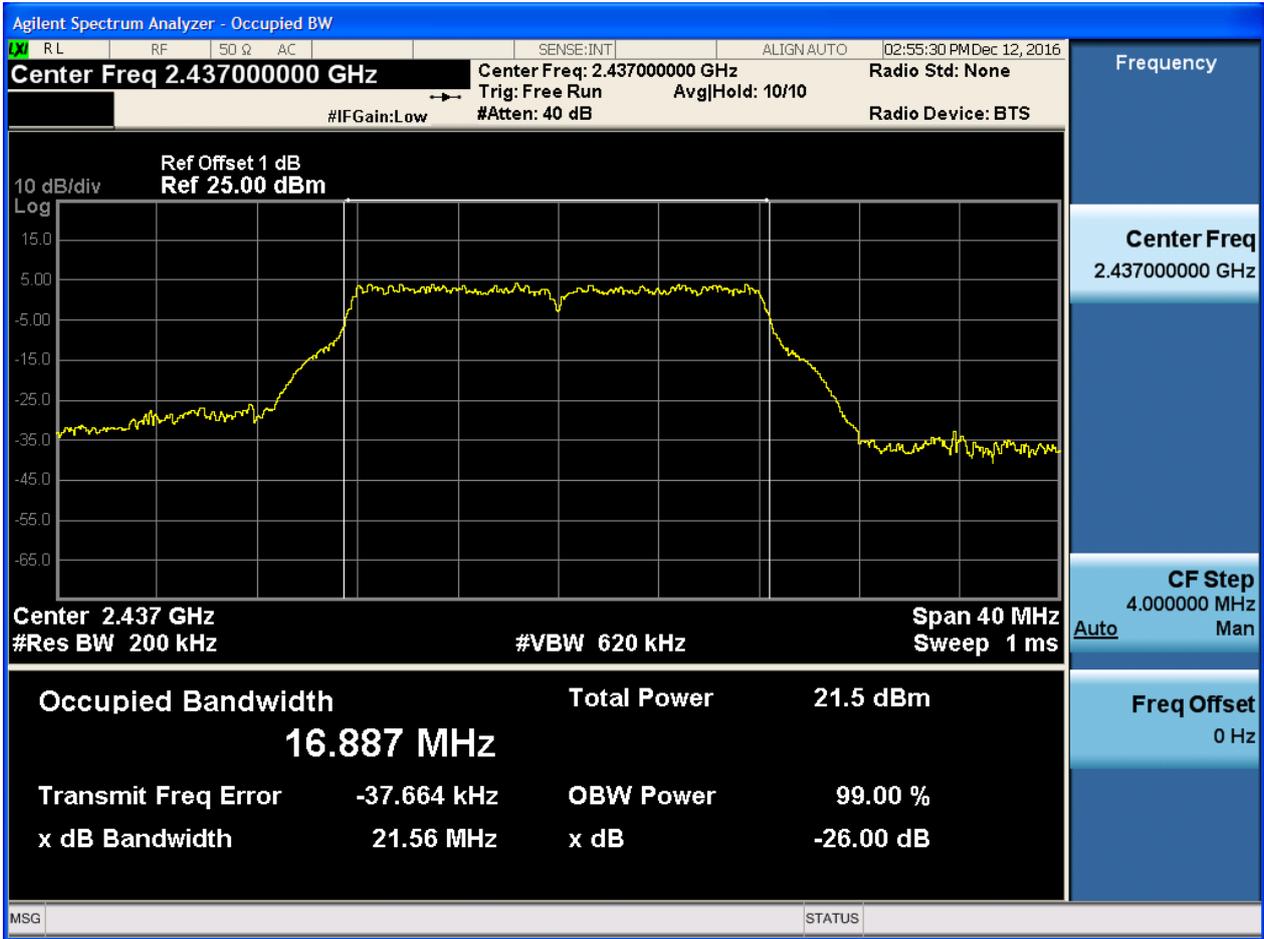


2.26 11G CDD_L@Ant 2



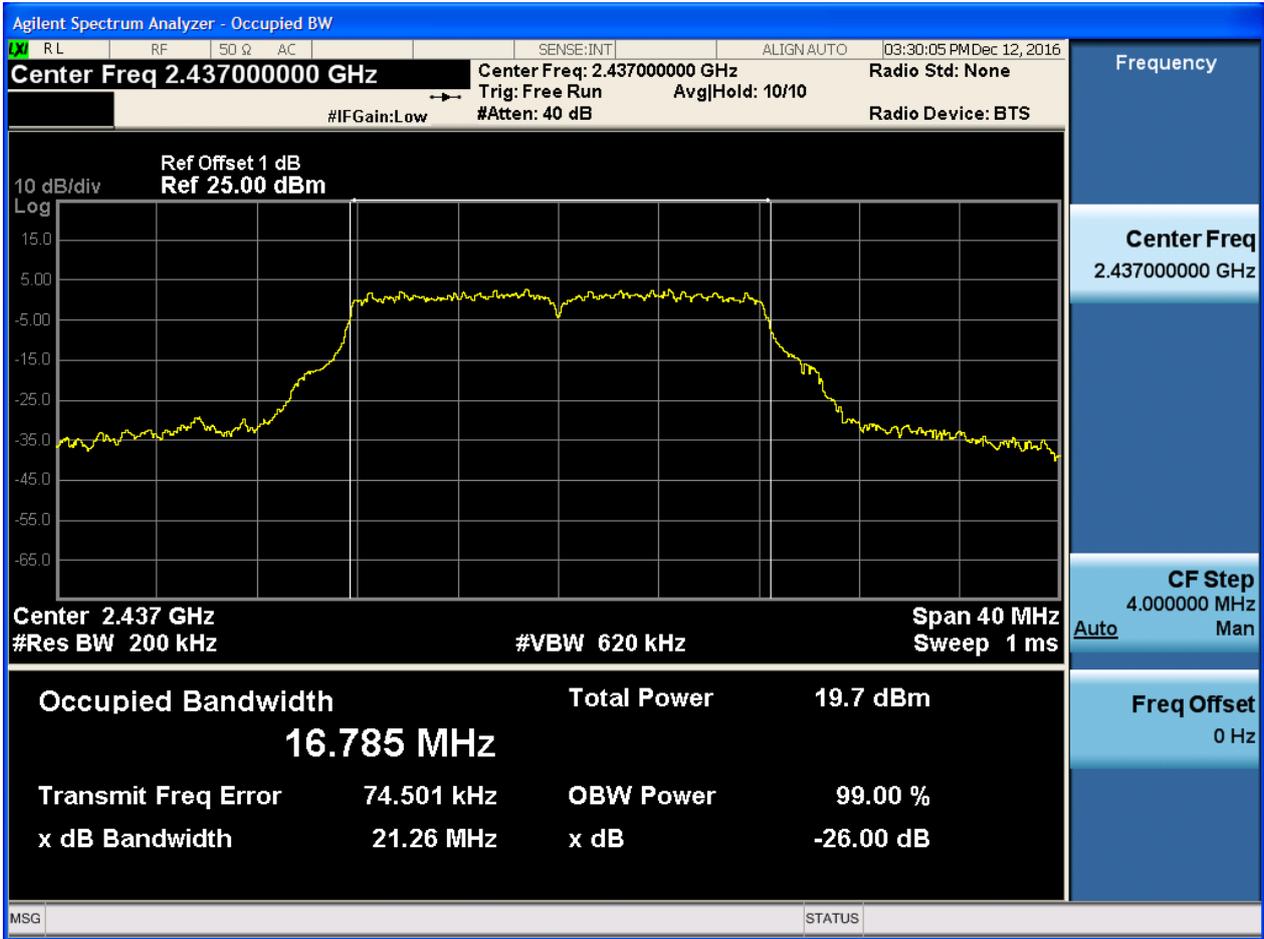


2.27 11G CDD_M@Ant 1



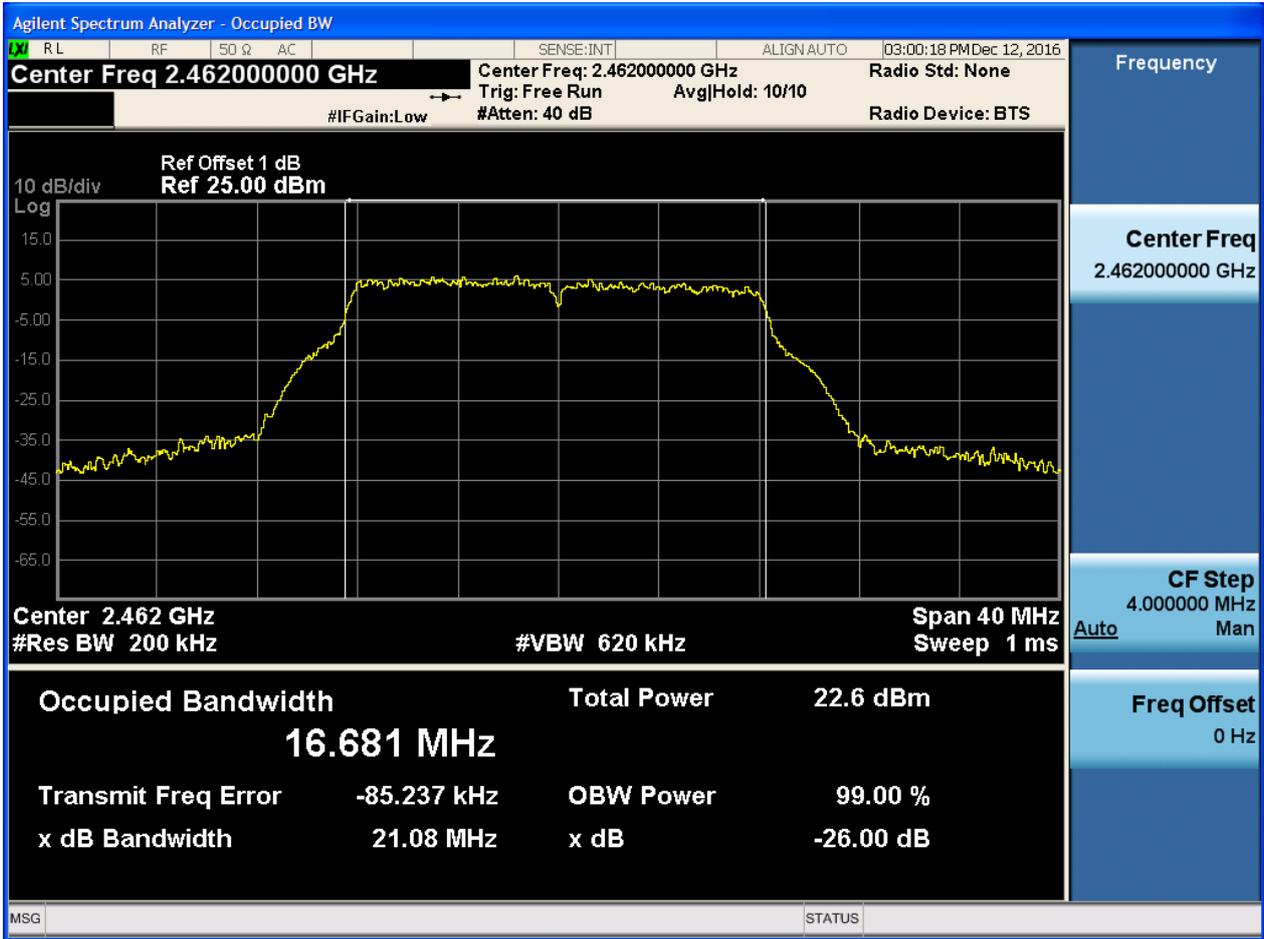


2.28 11G CDD_M@Ant 2



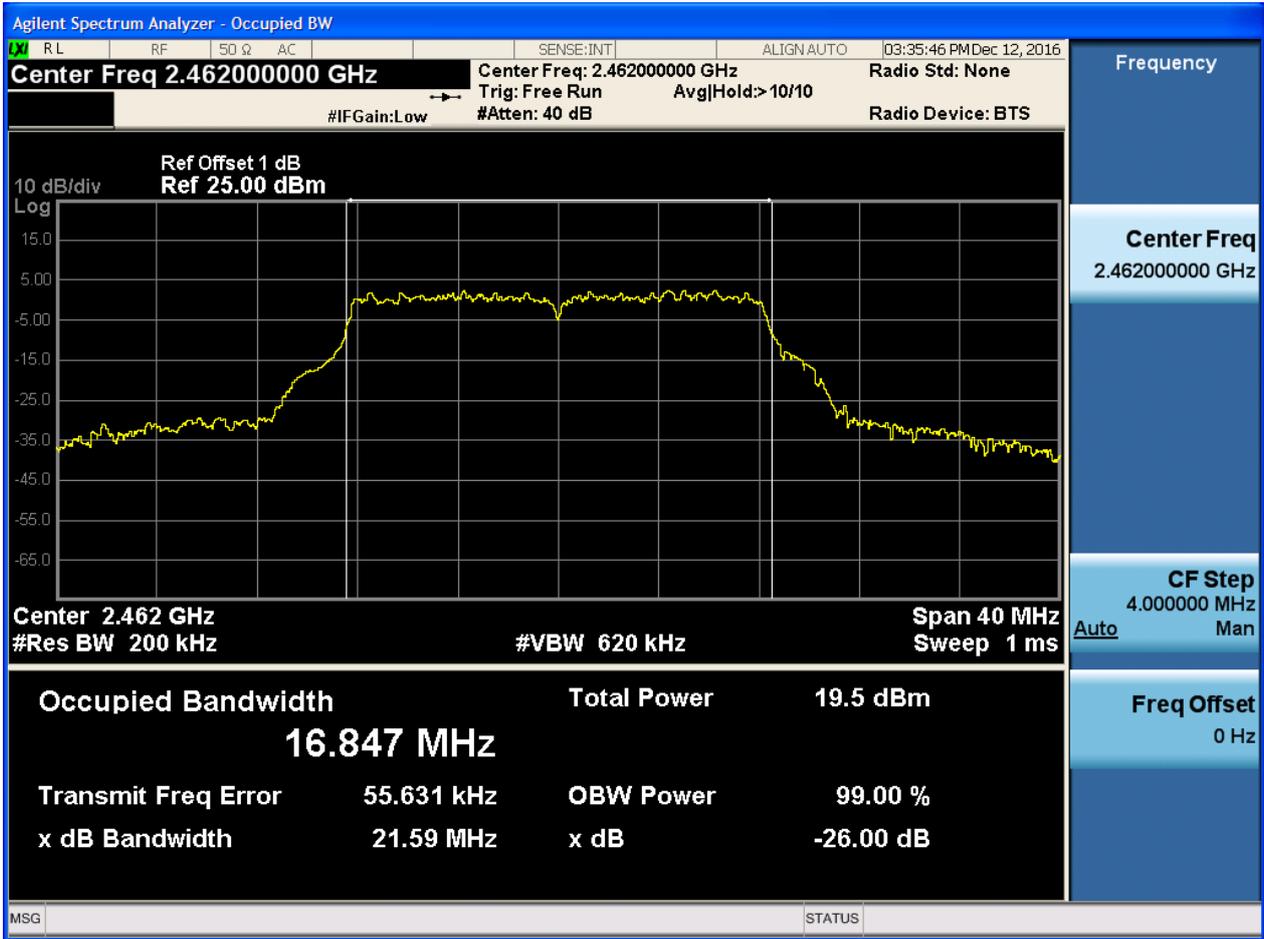


2.29 11G CDD_H@Ant 1





2.30 11G CDD_H@Ant 2



Appendix C: Duty Cycle

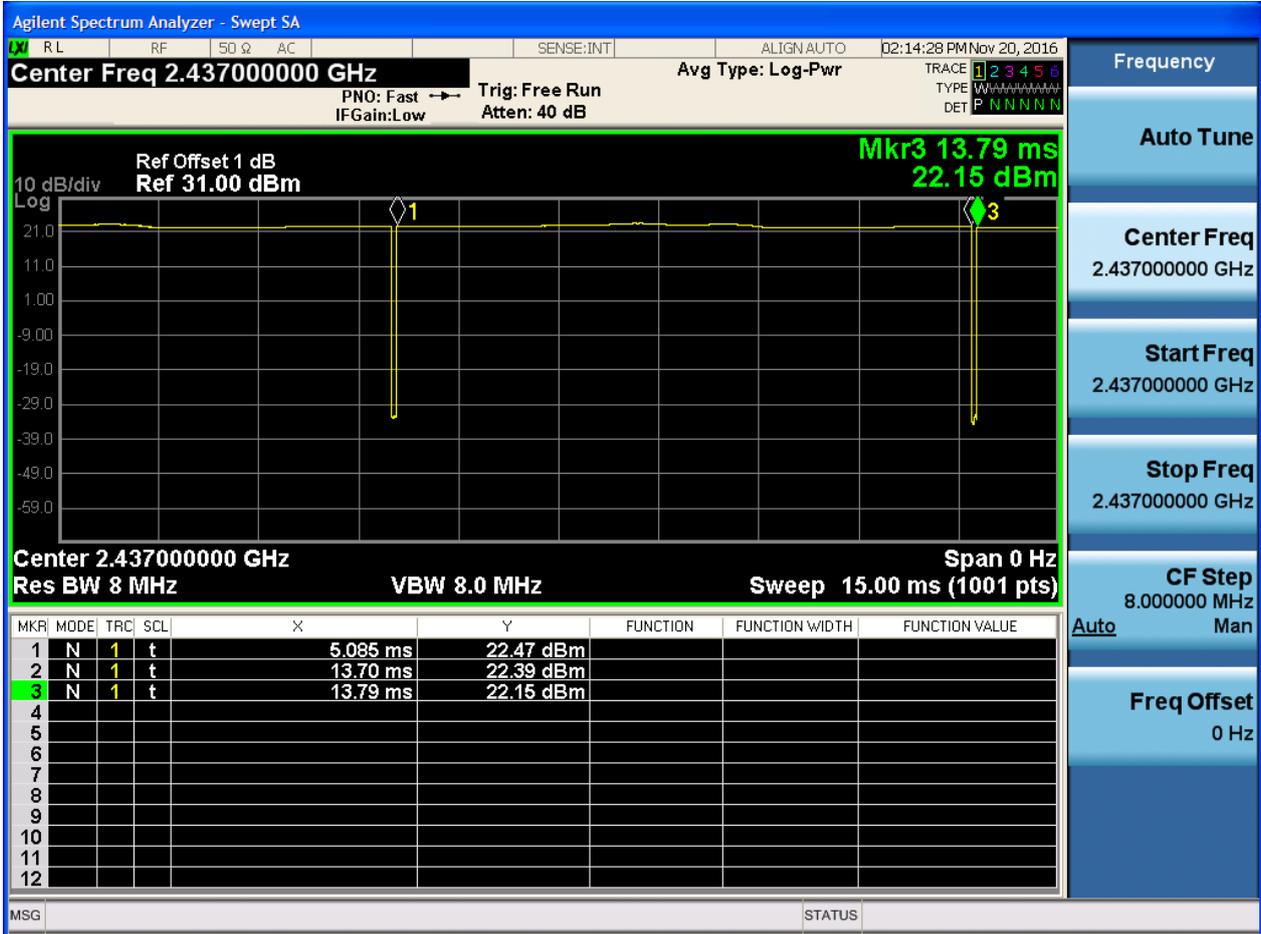
Part I - Test Results

Test Mode	TX Freq. [MHz]	Ant	Duty cycle [%]
11B	CH1,CH6,CH11	Ant 1	99
11B	CH1,CH6,CH11	Ant 2	99
11G/11G CDD	CH1,CH6,CH11	Ant 1	93
11G/11G CDD	CH1,CH6,CH11	Ant 2	93
11N20SISO	CH1,CH6,CH11	Ant 1	93
11N20SISO	CH1,CH6,CH11	Ant 2	93
11N20MIMO	CH1,CH6,CH11	Ant 1	87
11N20MIMO	CH1,CH6,CH11	Ant 2	87



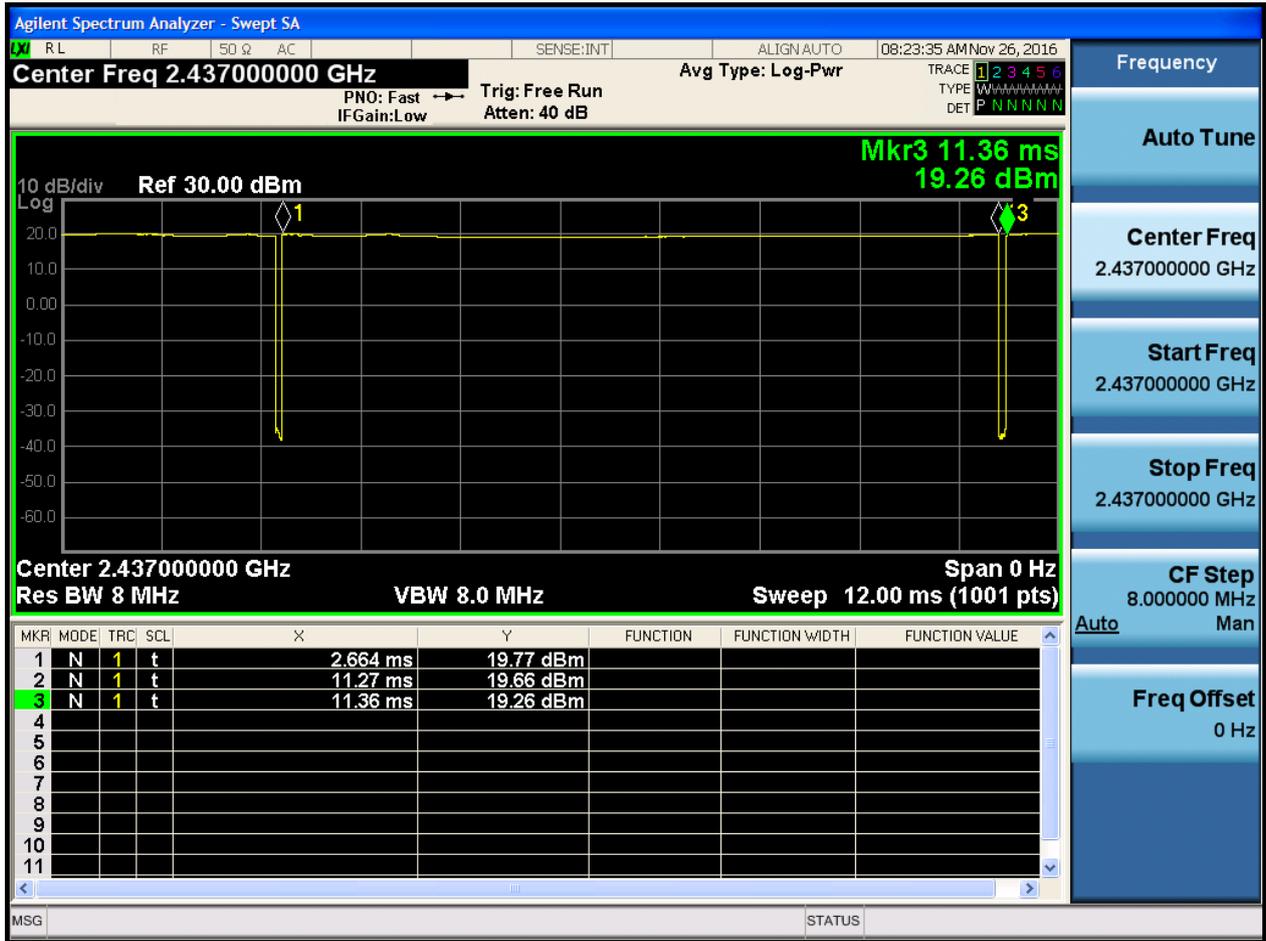
Part II - Test Plots

11B_ANT1



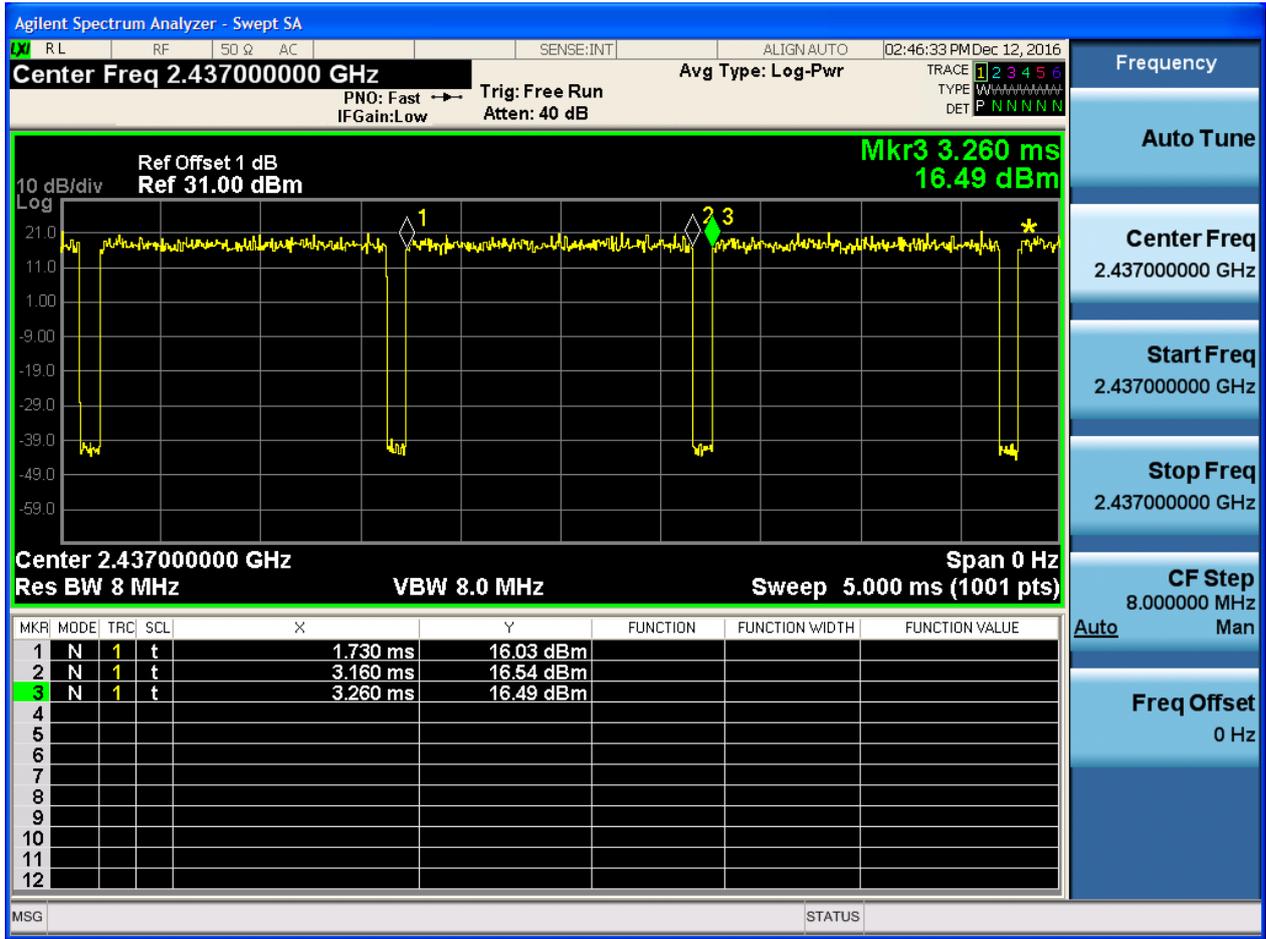


11B_ANT2





11G/11GCDD_ANT1



Frequency

Auto Tune

Center Freq
2.437000000 GHz

Start Freq
2.437000000 GHz

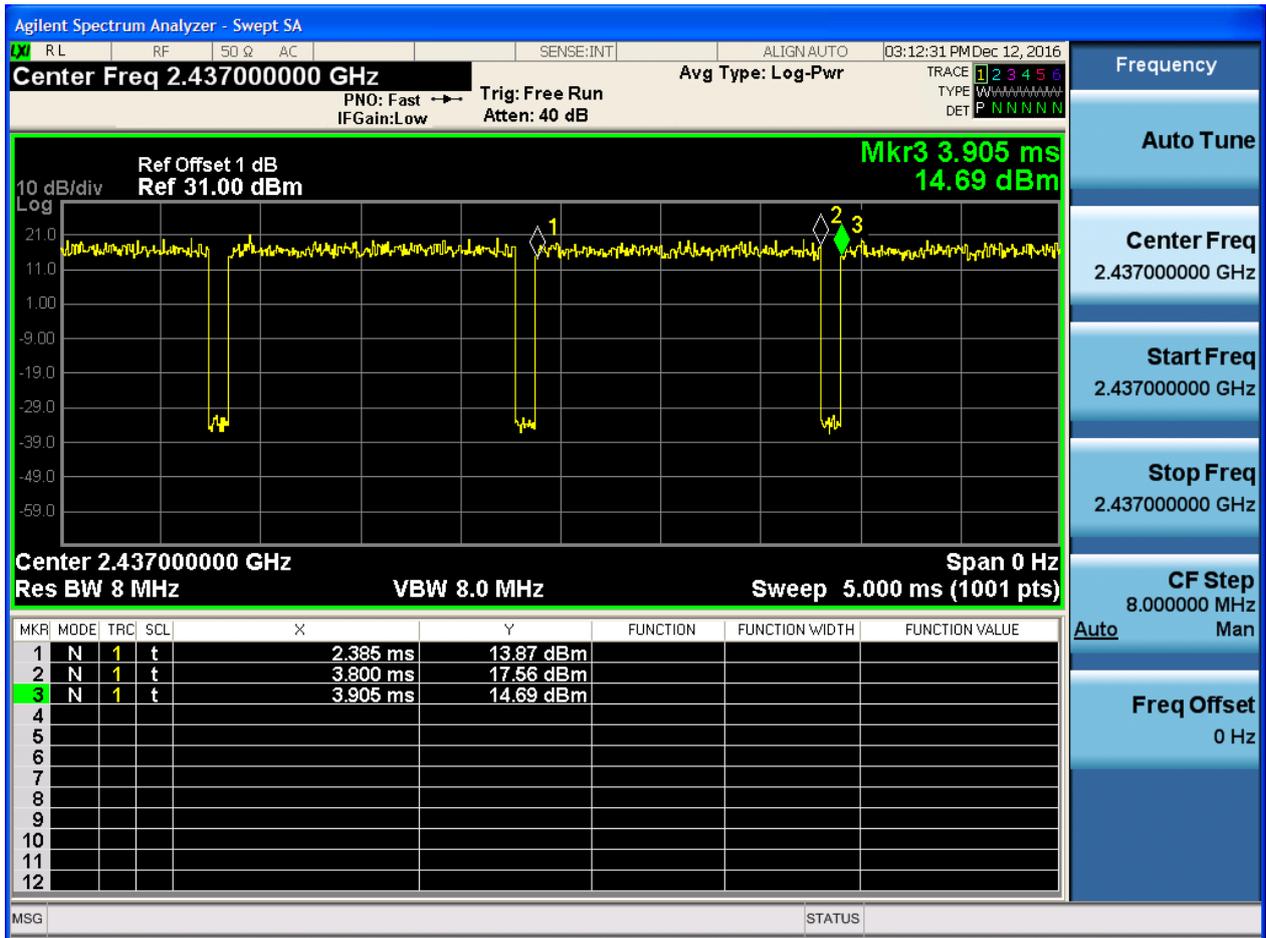
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2.437000000 GHz

CF Step
8.000000 MHz
Auto Man

Freq Offset
0 Hz

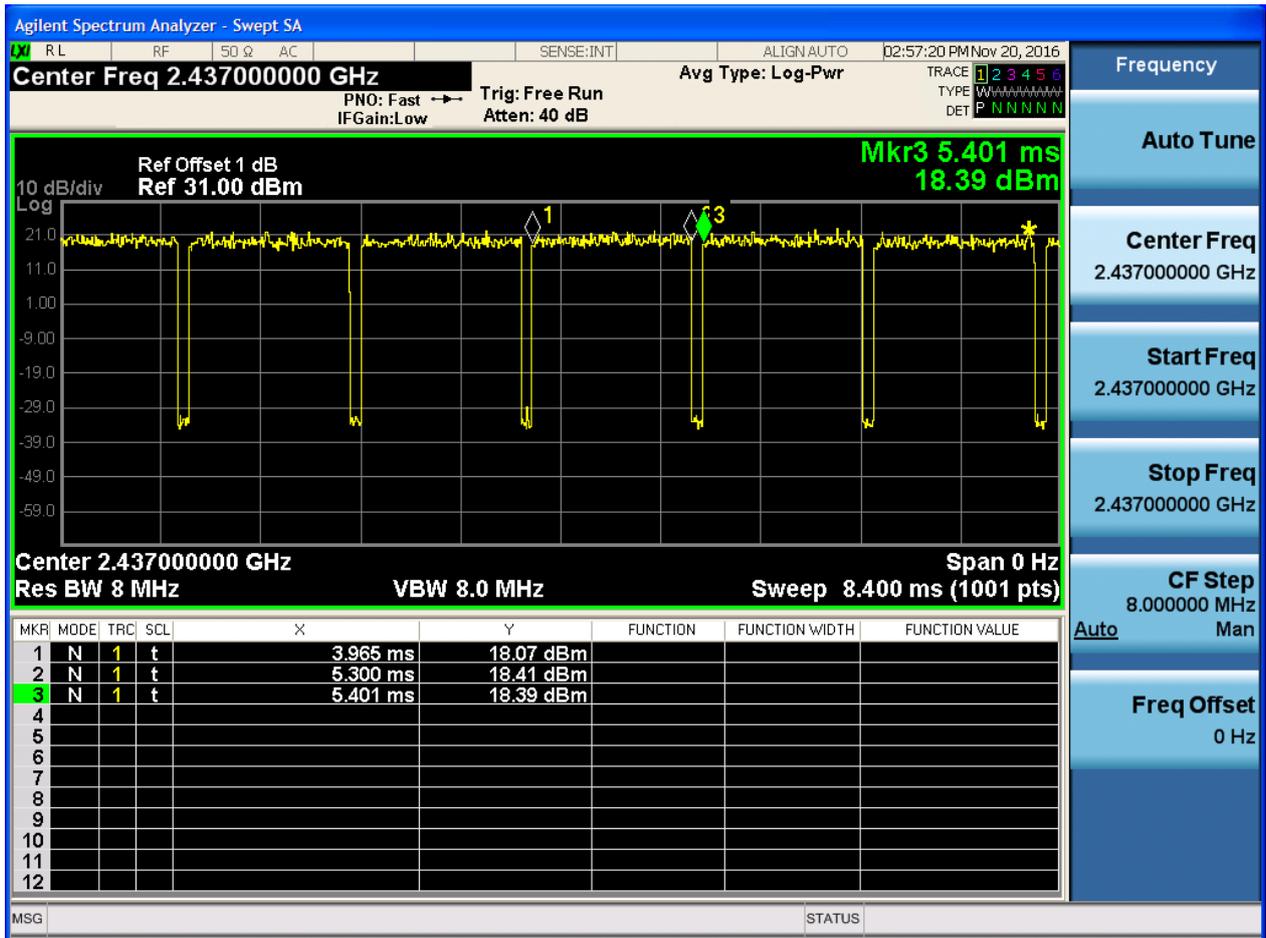


11G/11GCDD_ANT2



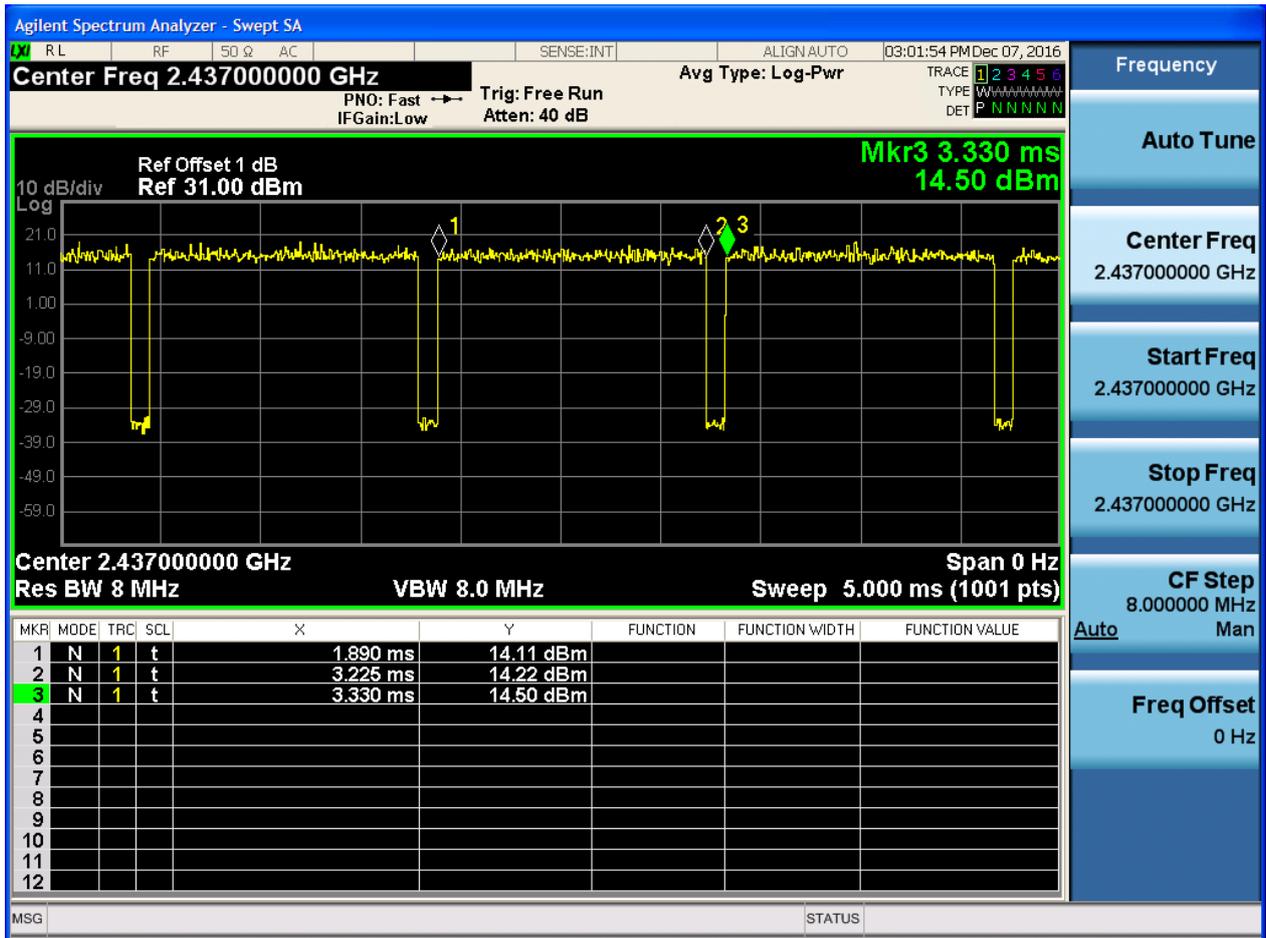


11N20SISO_ANT1



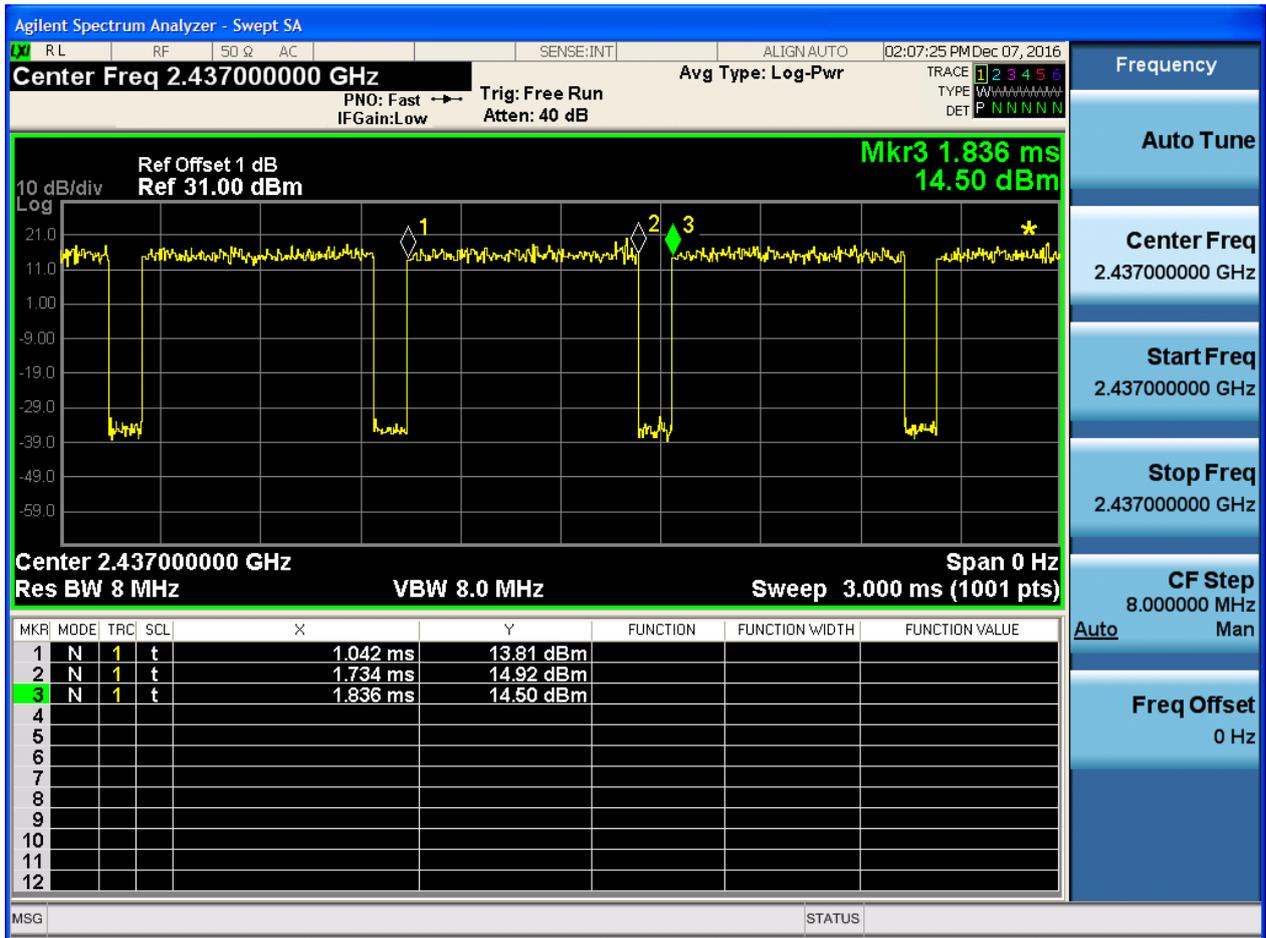


11N20SISO_ANT2



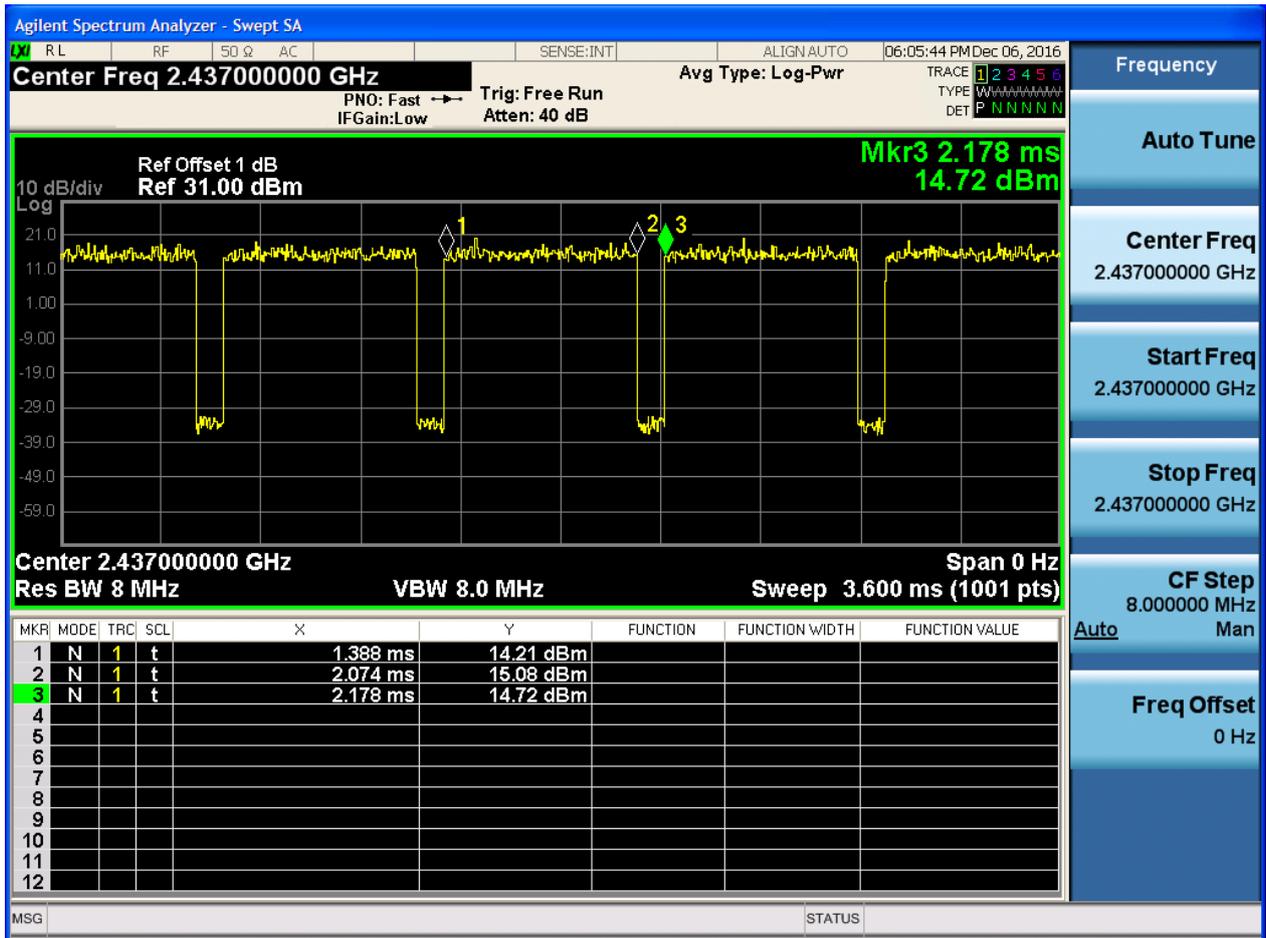


11N20MIMO_ANT1





11N20MIMO_ANT2





Appendix D: Maximum Conducted Average Output Power

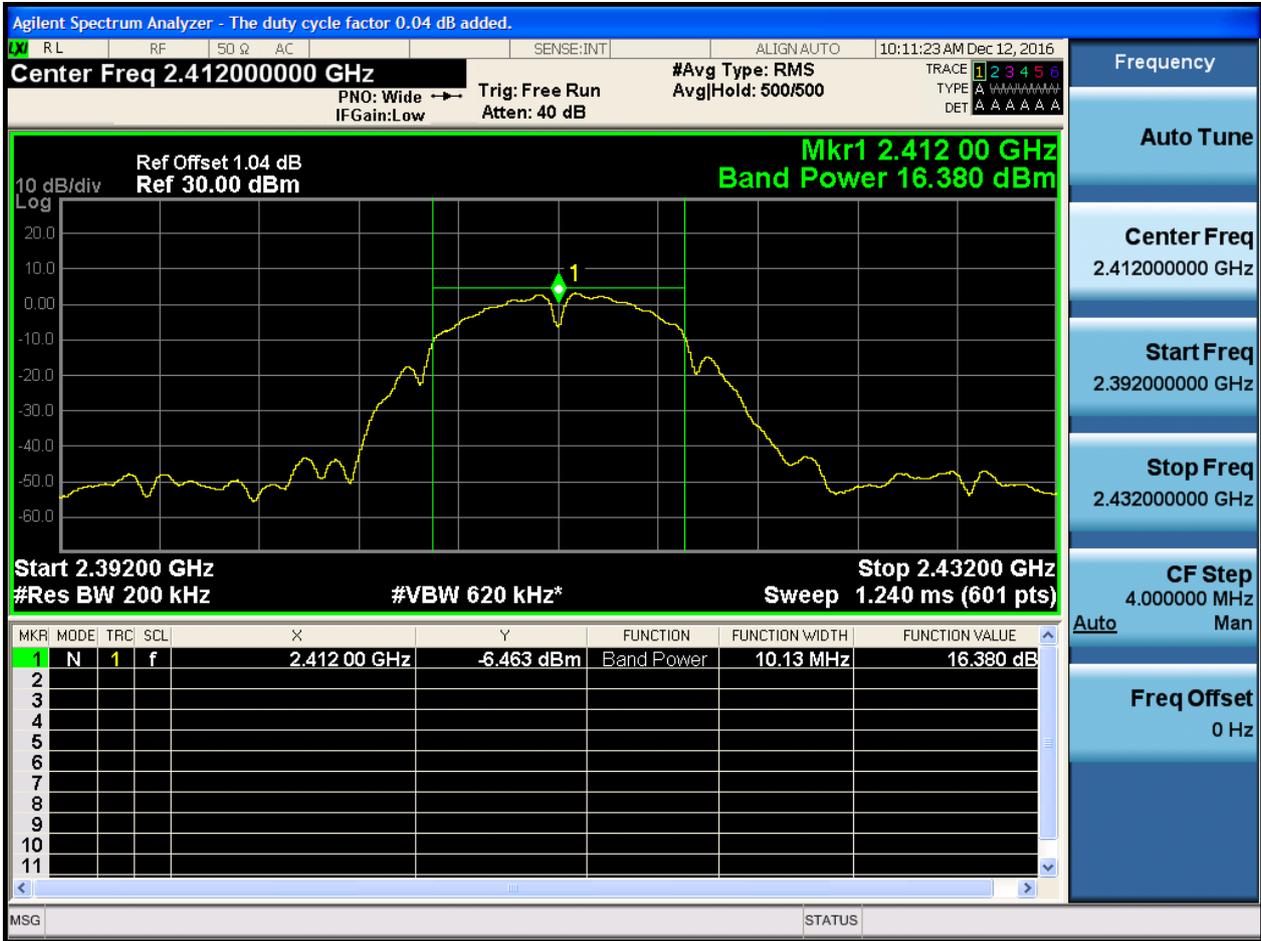
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Power[dBm]	Verdict
11B	L	2412	Ant 1	16.38	pass
11B	L	2412	Ant 2	13.74	pass
11B	M	2437	Ant 1	16.49	pass
11B	M	2437	Ant 2	14.35	pass
11B	H	2462	Ant 1	16.67	pass
11B	H	2462	Ant 2	14.19	pass
11G	L	2412	Ant 1	14.92	pass
11G	L	2412	Ant 2	12.59	pass
11G	M	2437	Ant 1	14.99	pass
11G	M	2437	Ant 2	13.21	pass
11G	H	2462	Ant 1	15.95	pass
11G	H	2462	Ant 2	13.01	pass
11N20	L	2412	Ant 1	13.97	pass
11N20	L	2412	Ant 2	11.55	pass
11N20	M	2437	Ant 1	14.16	pass
11N20	M	2437	Ant 2	12.06	pass
11N20	H	2462	Ant 1	14.90	pass
11N20	H	2462	Ant 2	11.80	pass
11N20m	L	2412	Ant 2	11.87	pass
11N20m	L	2412	Ant 1	13.89	pass
11N20m	L	2412	SUM	16.0	pass
11N20m	M	2437	Ant 2	12.33	pass
11N20m	M	2437	Ant 1	14.01	pass
11N20m	M	2437	SUM	16.26	pass
11N20m	H	2462	Ant 2	12.14	pass
11N20m	H	2462	Ant 1	14.44	pass
11N20m	H	2462	SUM	16.45	pass
11G CDD	L	2412	Ant 1	14.57	pass
11G CDD	L	2412	Ant 2	12.41	pass
11G CDD	M	2437	Ant 1	14.43	pass
11G CDD	M	2437	Ant 2	12.93	pass
11G CDD	H	2462	Ant 1	15.58	pass
11G CDD	H	2462	Ant 2	12.74	pass



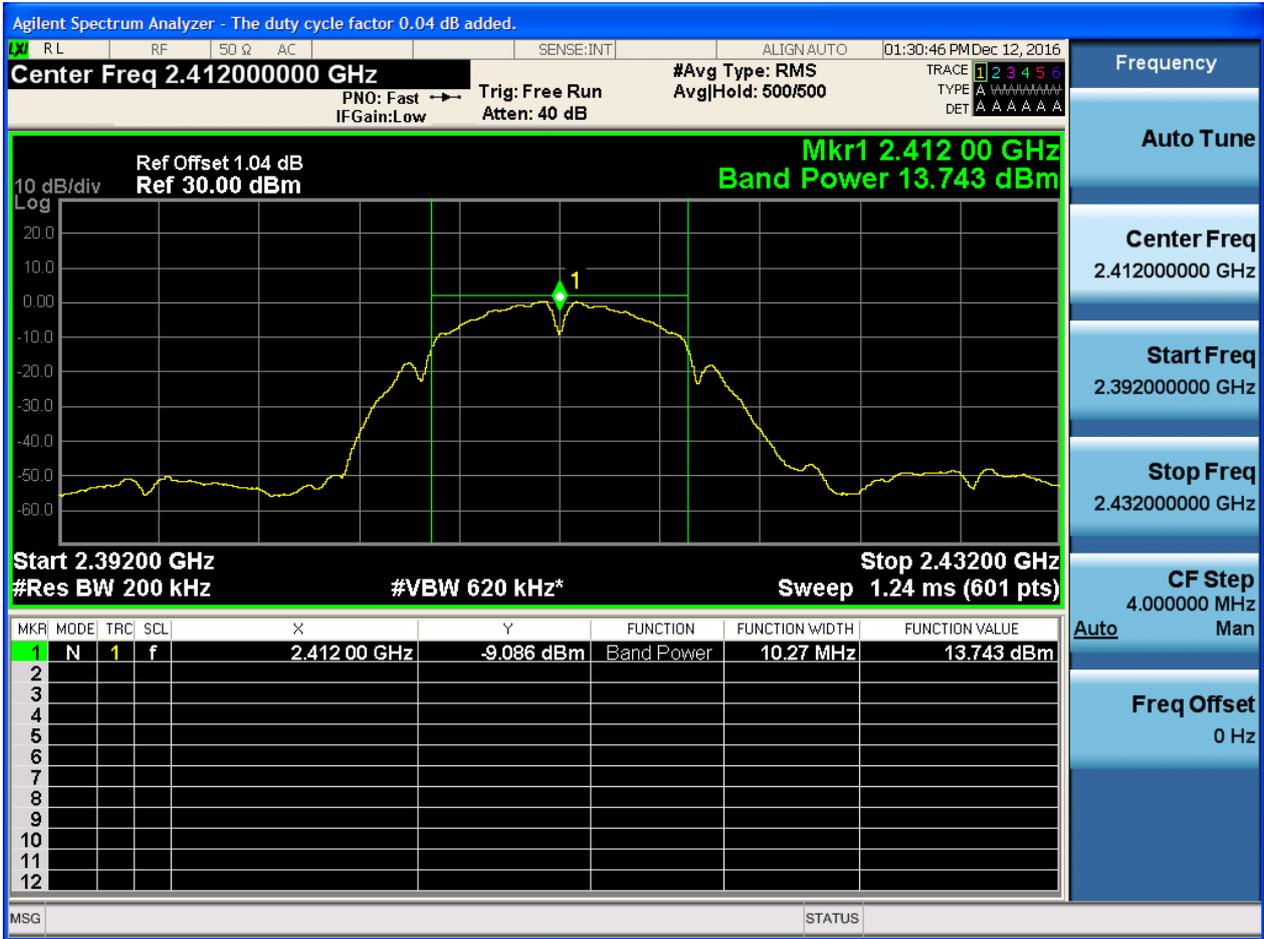
Part II - Test Plots

2.1 11B_L@Ant 1





2.2 11B_L@Ant 2



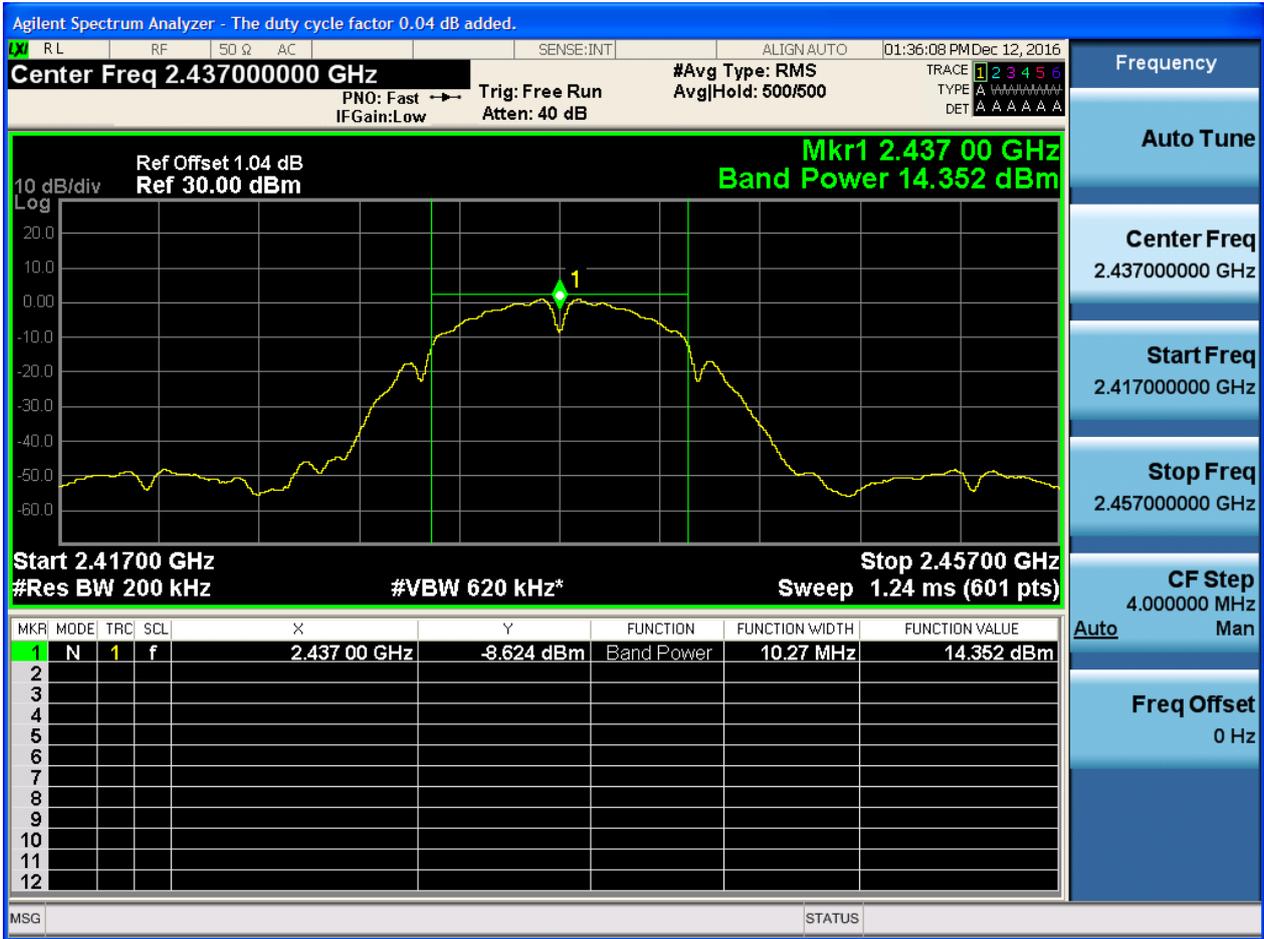


2.3 11B_M@Ant 1





2.4 11B_M@Ant 2



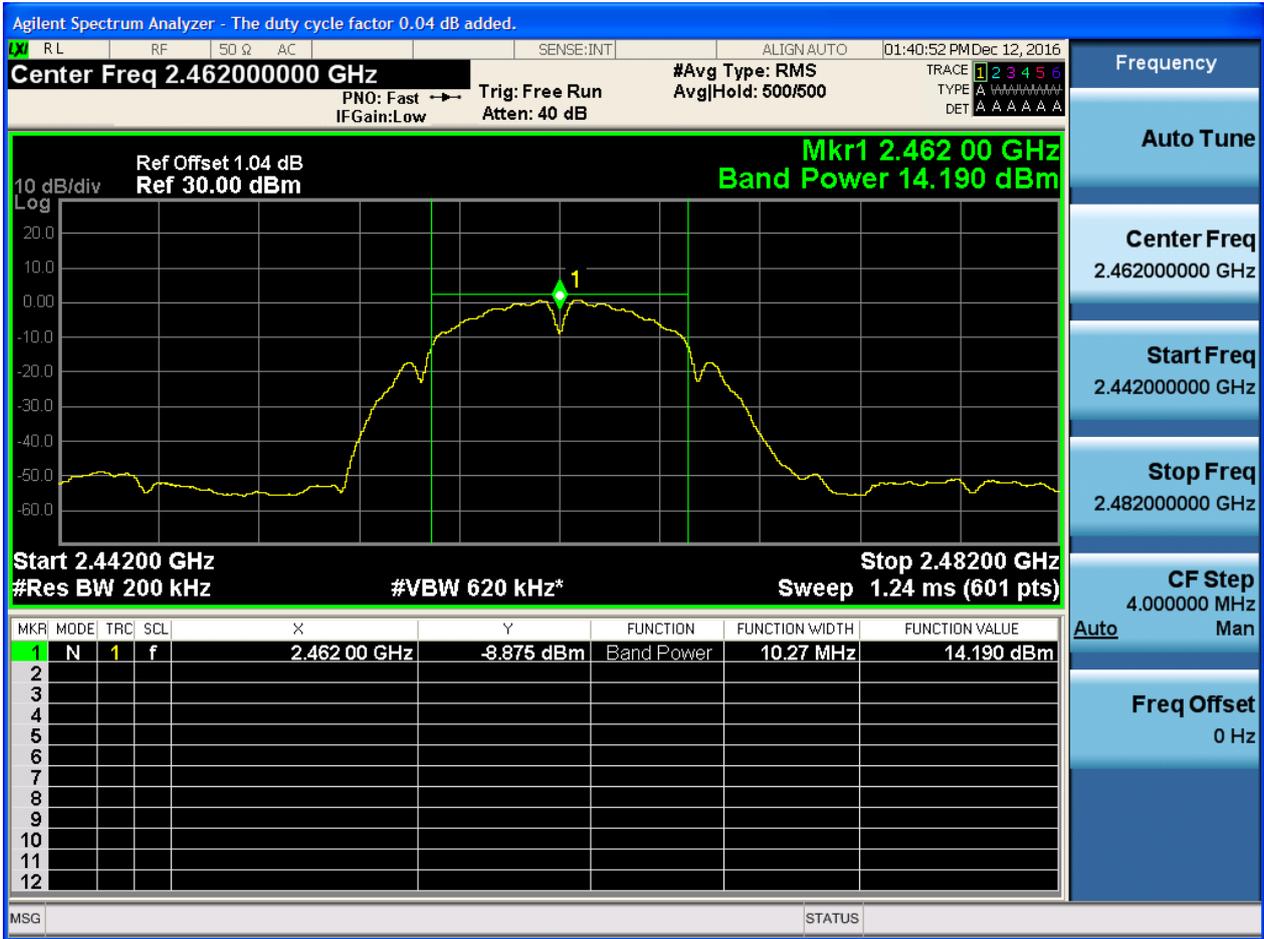


2.5 11B_H@Ant 1



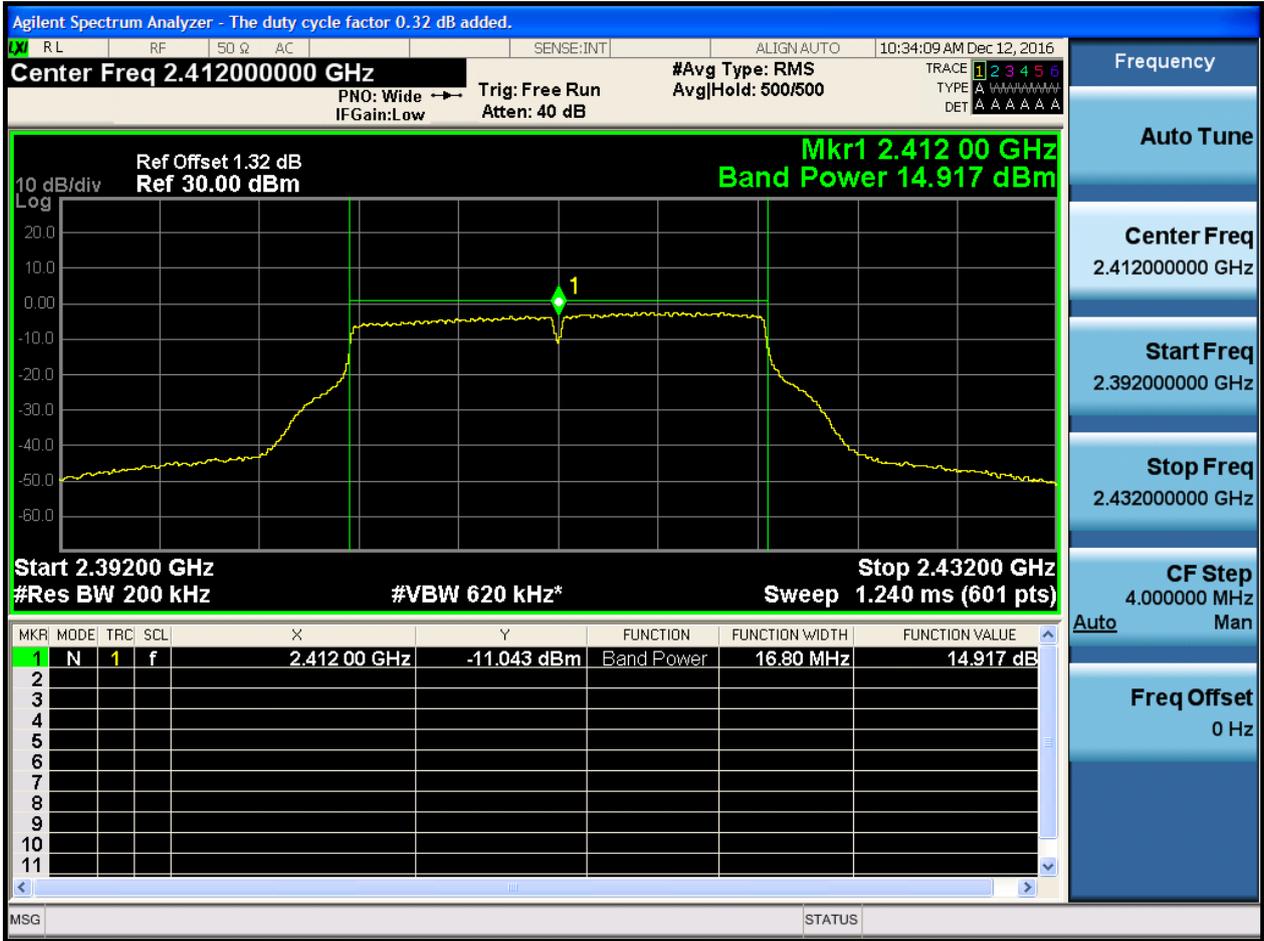


2.6 11B_H@Ant 2



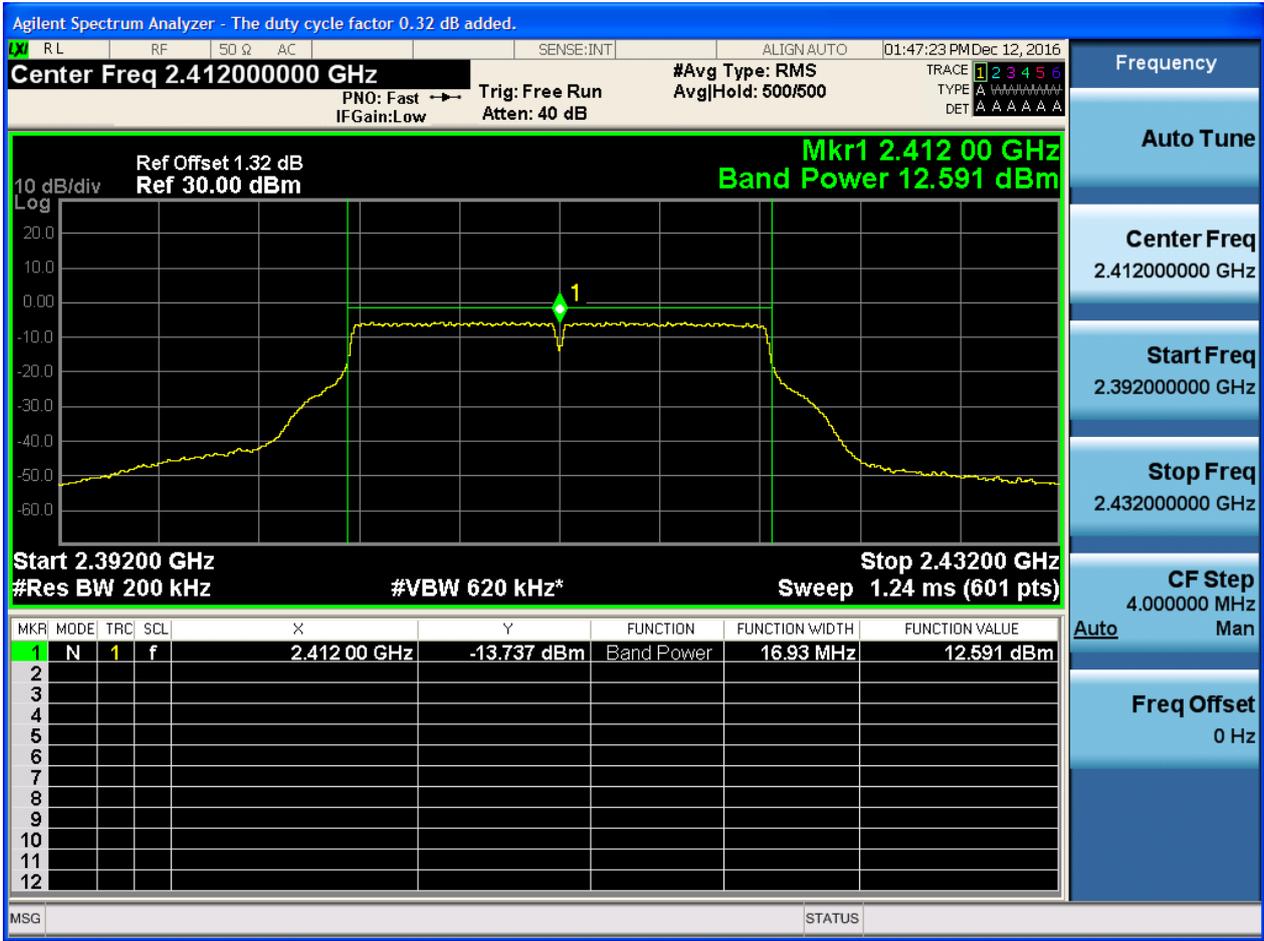


2.7 11G_L@Ant 1



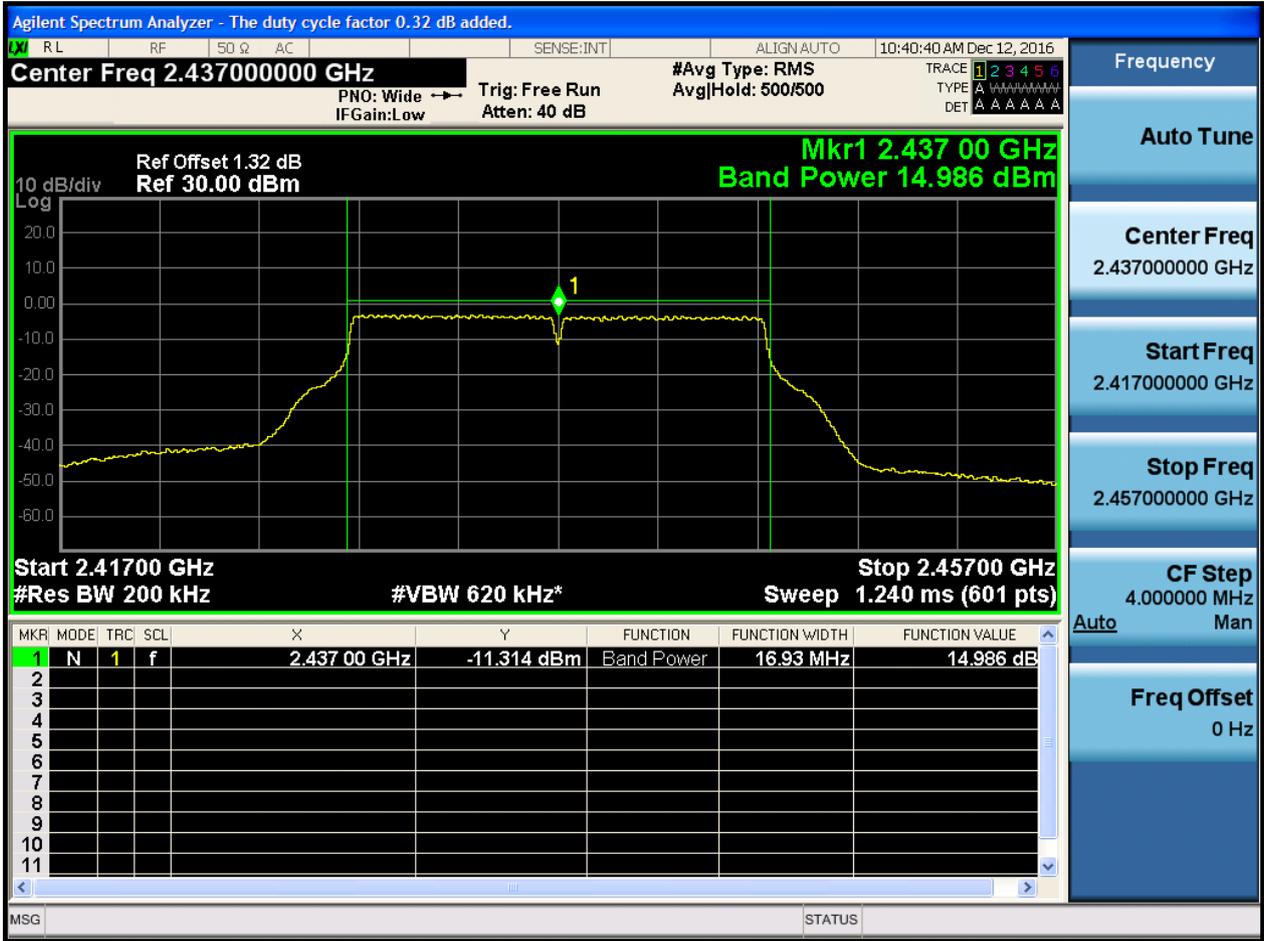


2.8 11G_L@Ant 2



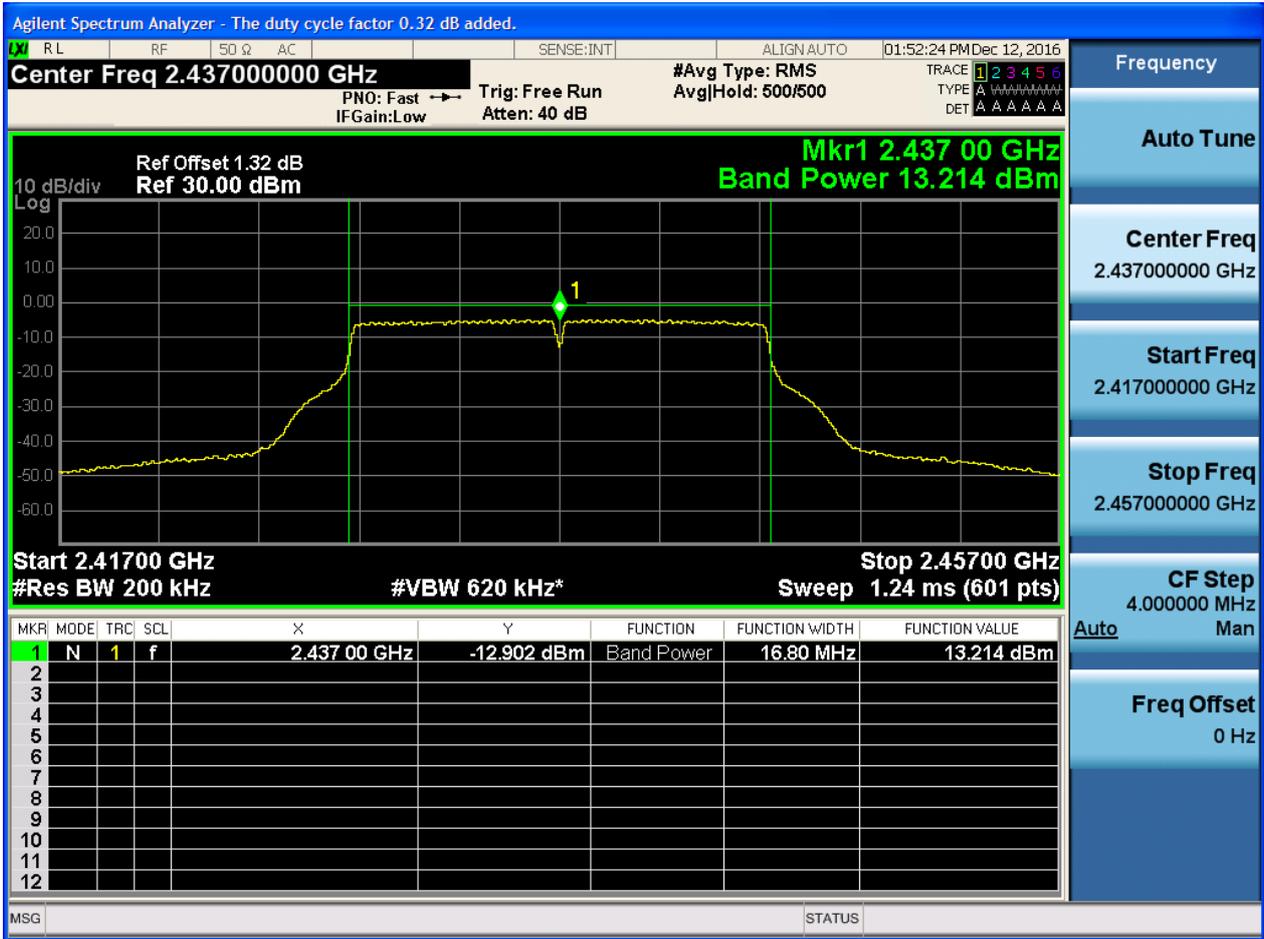


2.9 11G_M@Ant 1



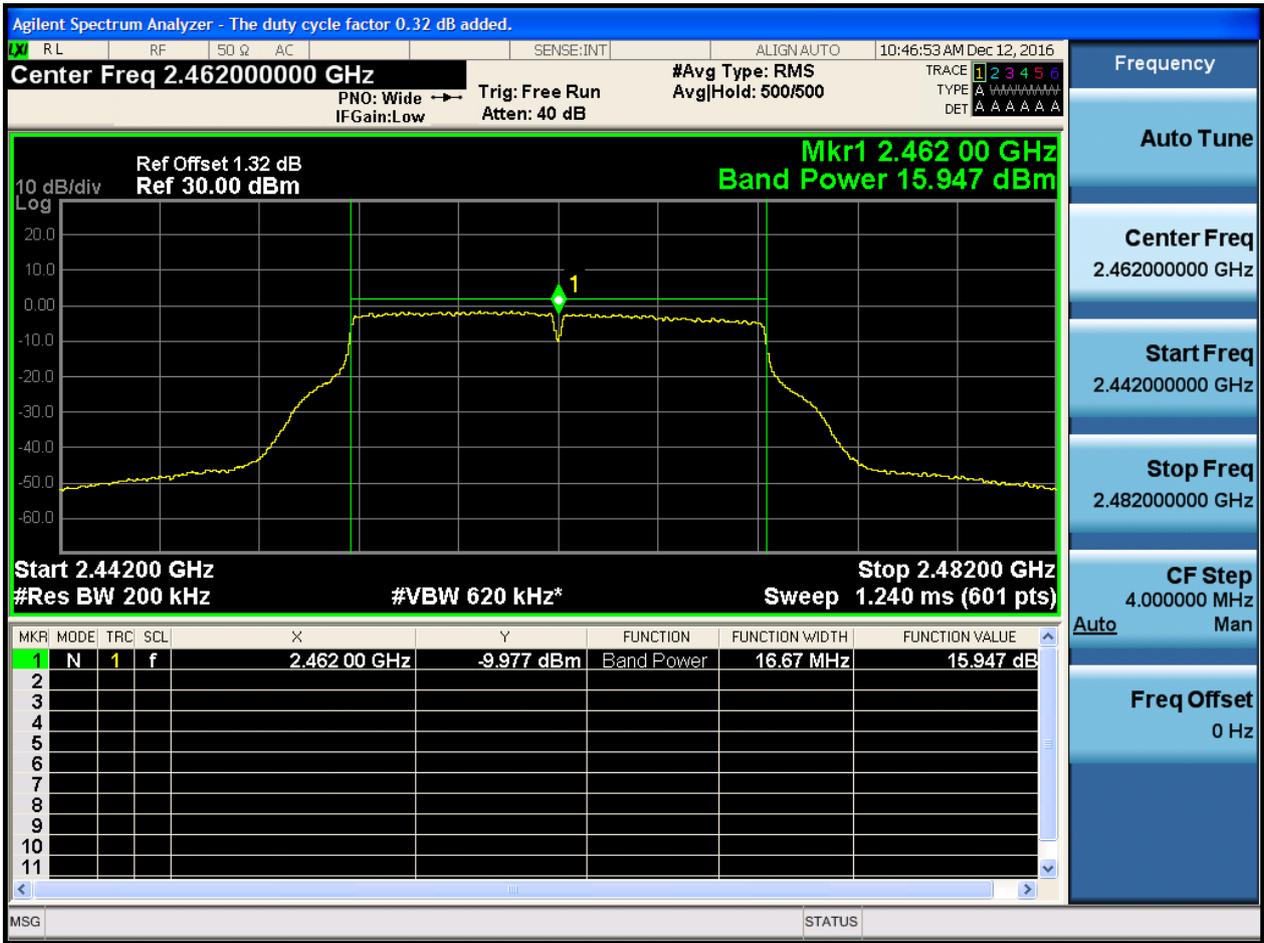


2.10 11G_M@Ant 2



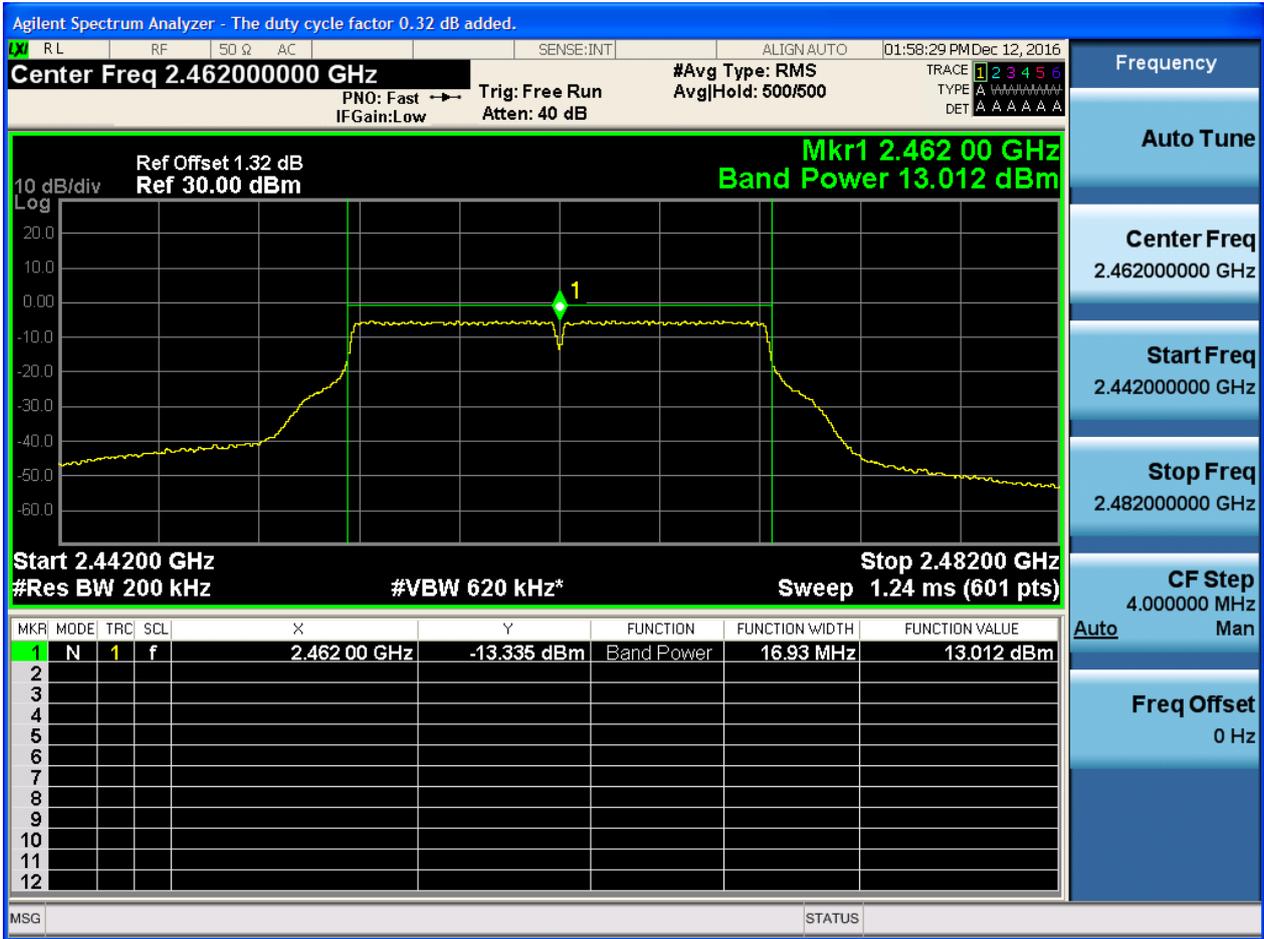


2.11 11G_H@Ant 1





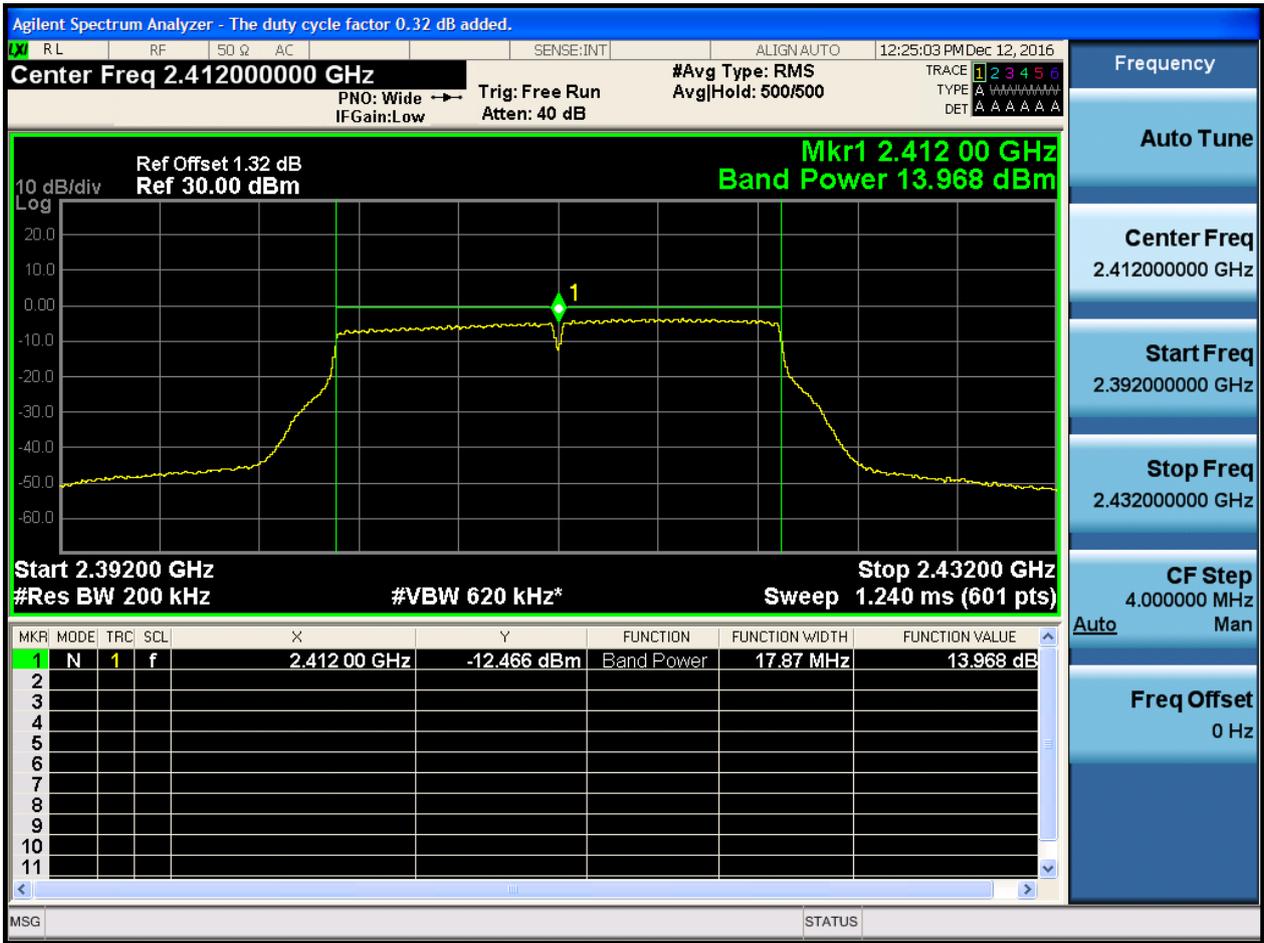
2.12 11G_H@Ant 2



Frequency
Auto Tune
Center Freq 2.46200000 GHz
Start Freq 2.44200000 GHz
Stop Freq 2.48200000 GHz
CF Step 4.000000 MHz Auto Man
Freq Offset 0 Hz

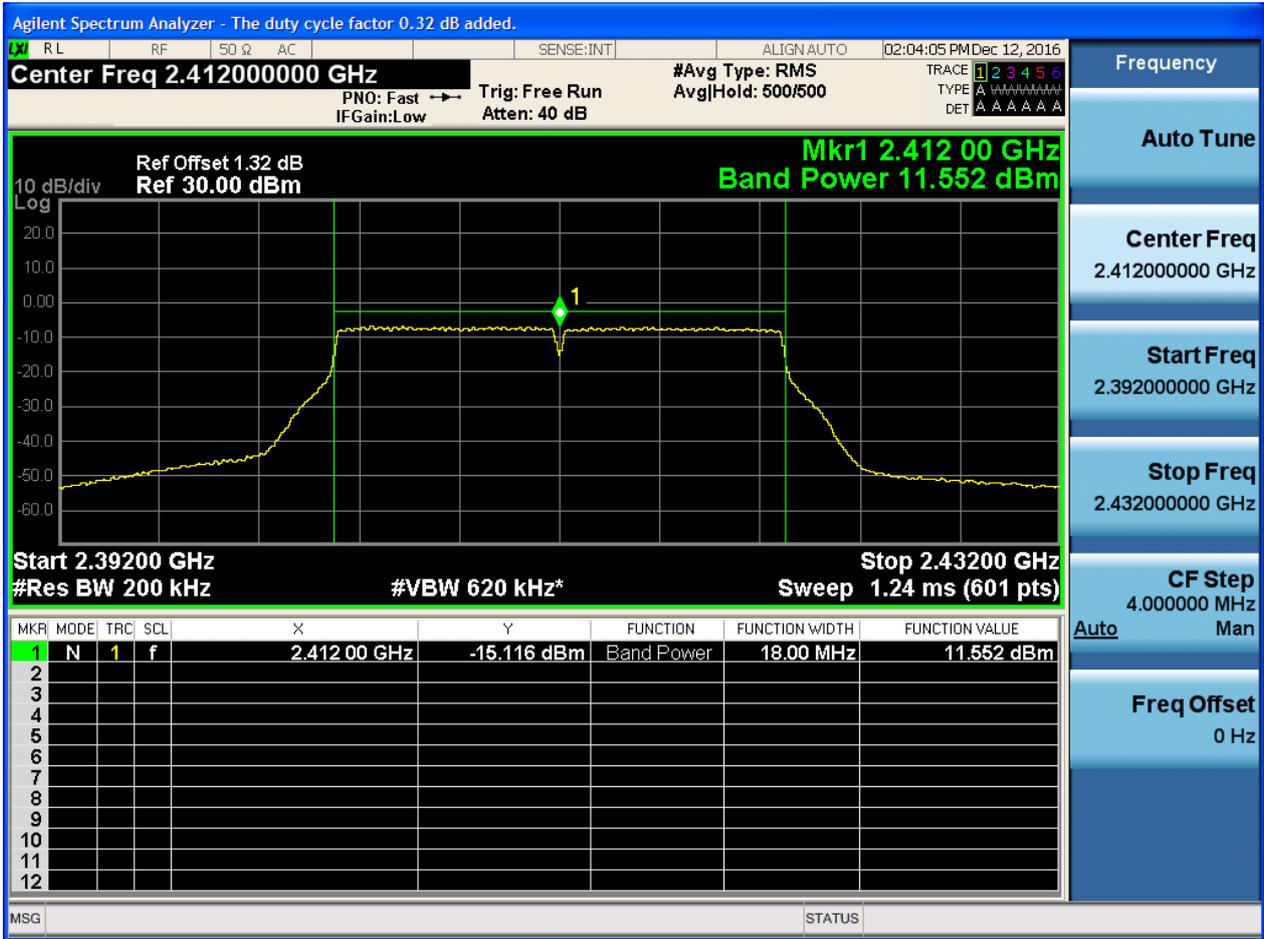


2.13 11N20_L@Ant 1



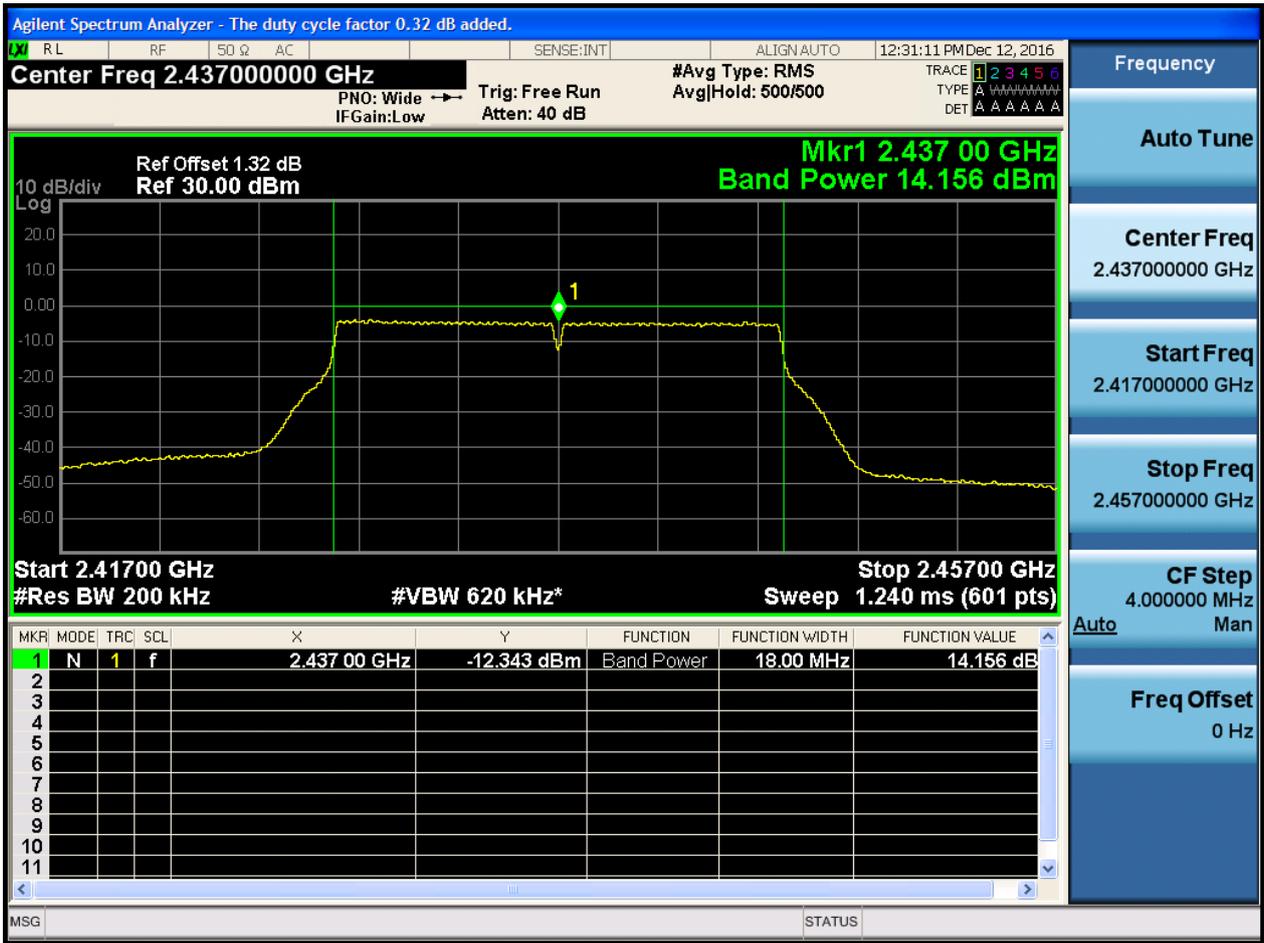


2.14 11N20_L@Ant 2



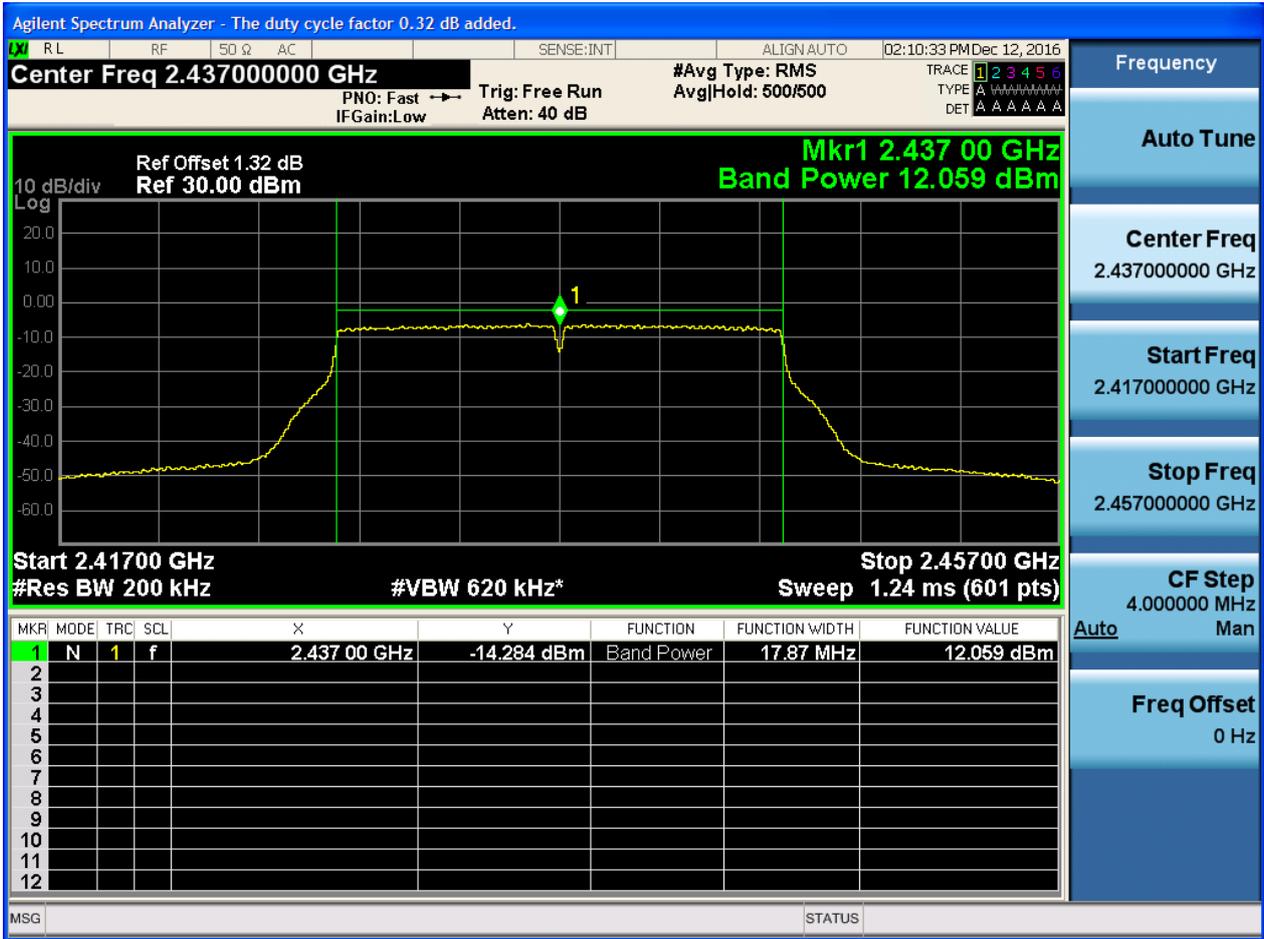


2.15 11N20_M@Ant 1



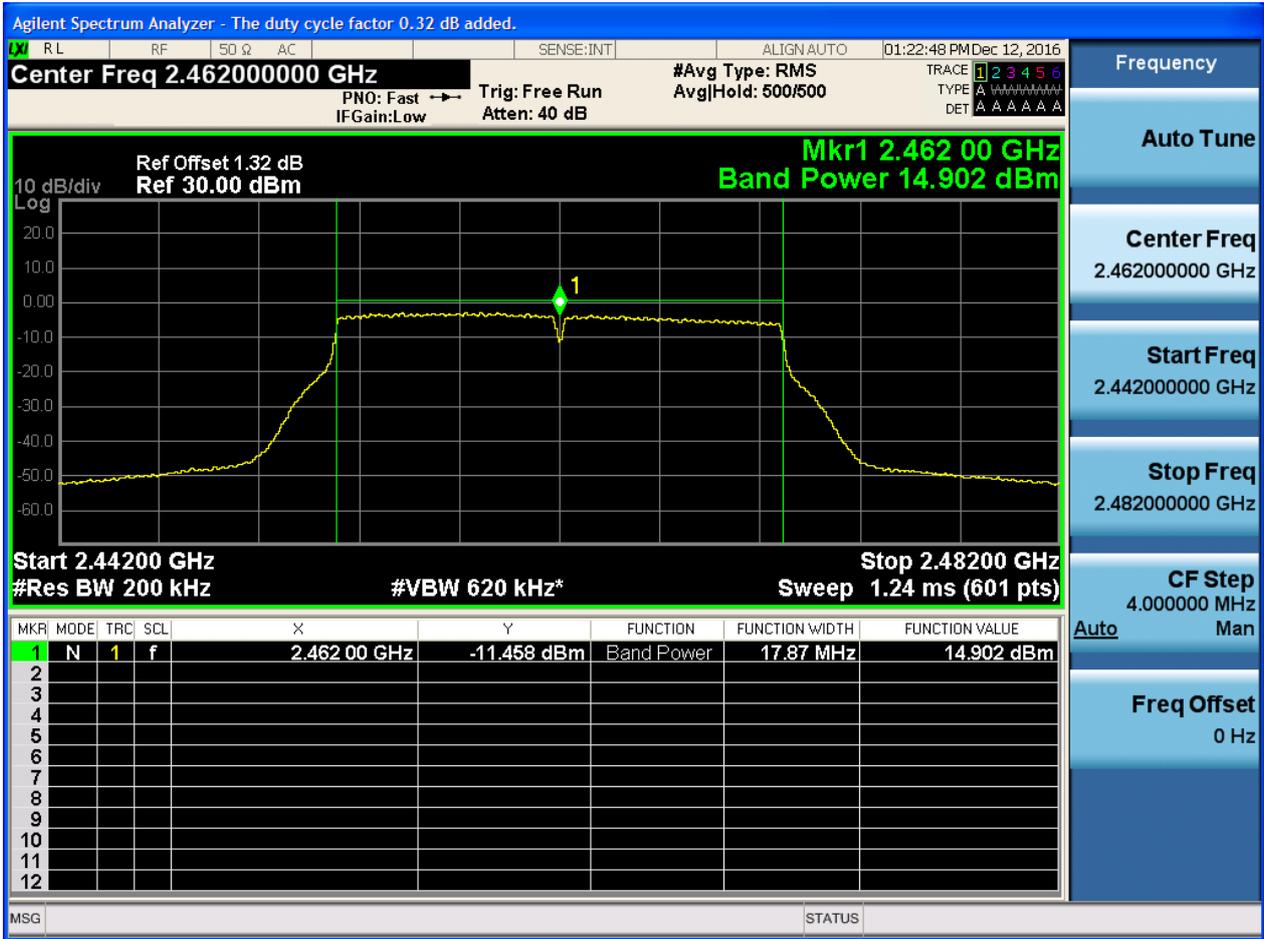


2.16 11N20_M@Ant 2



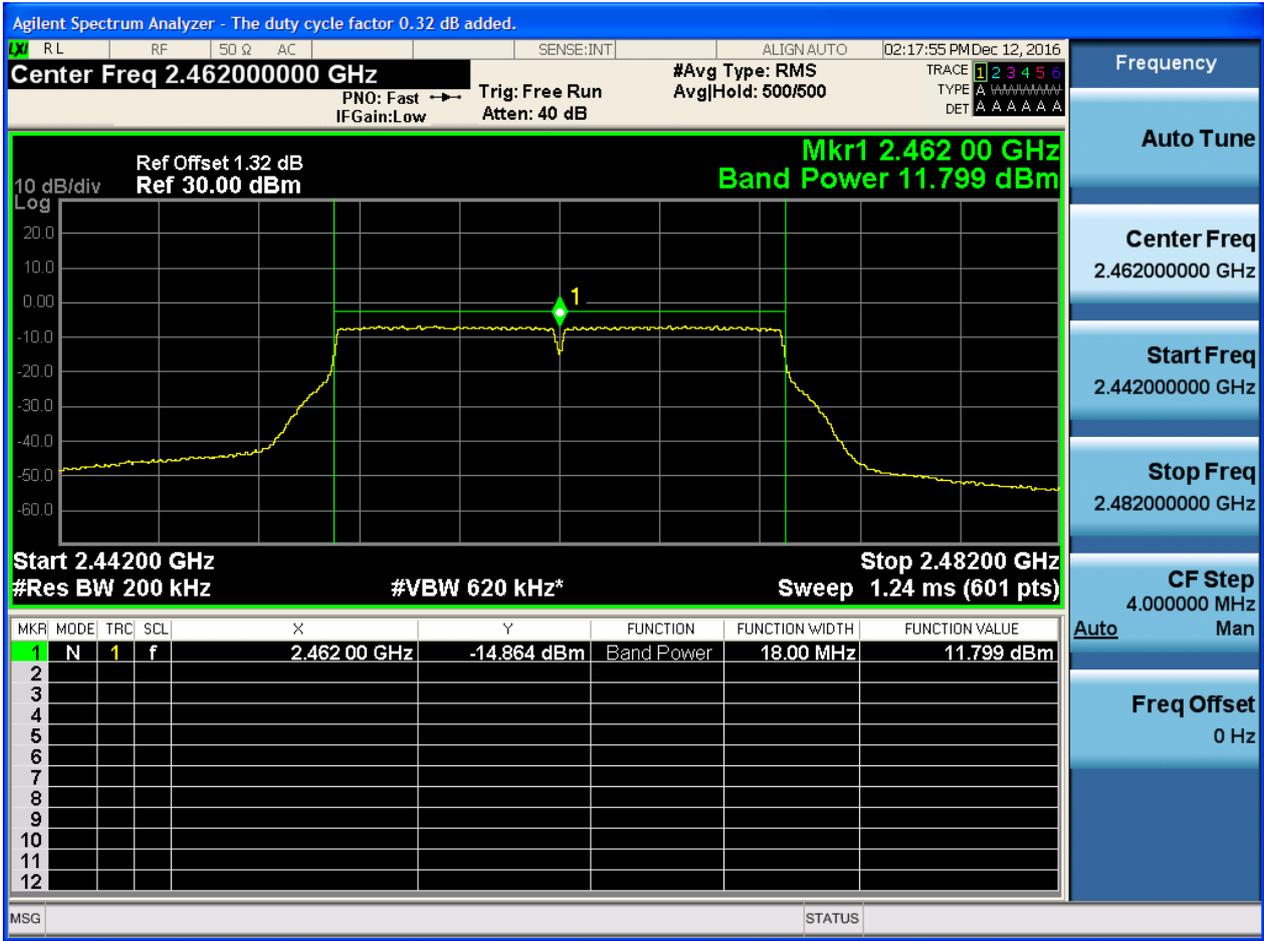


2.17 11N20_H@Ant 1

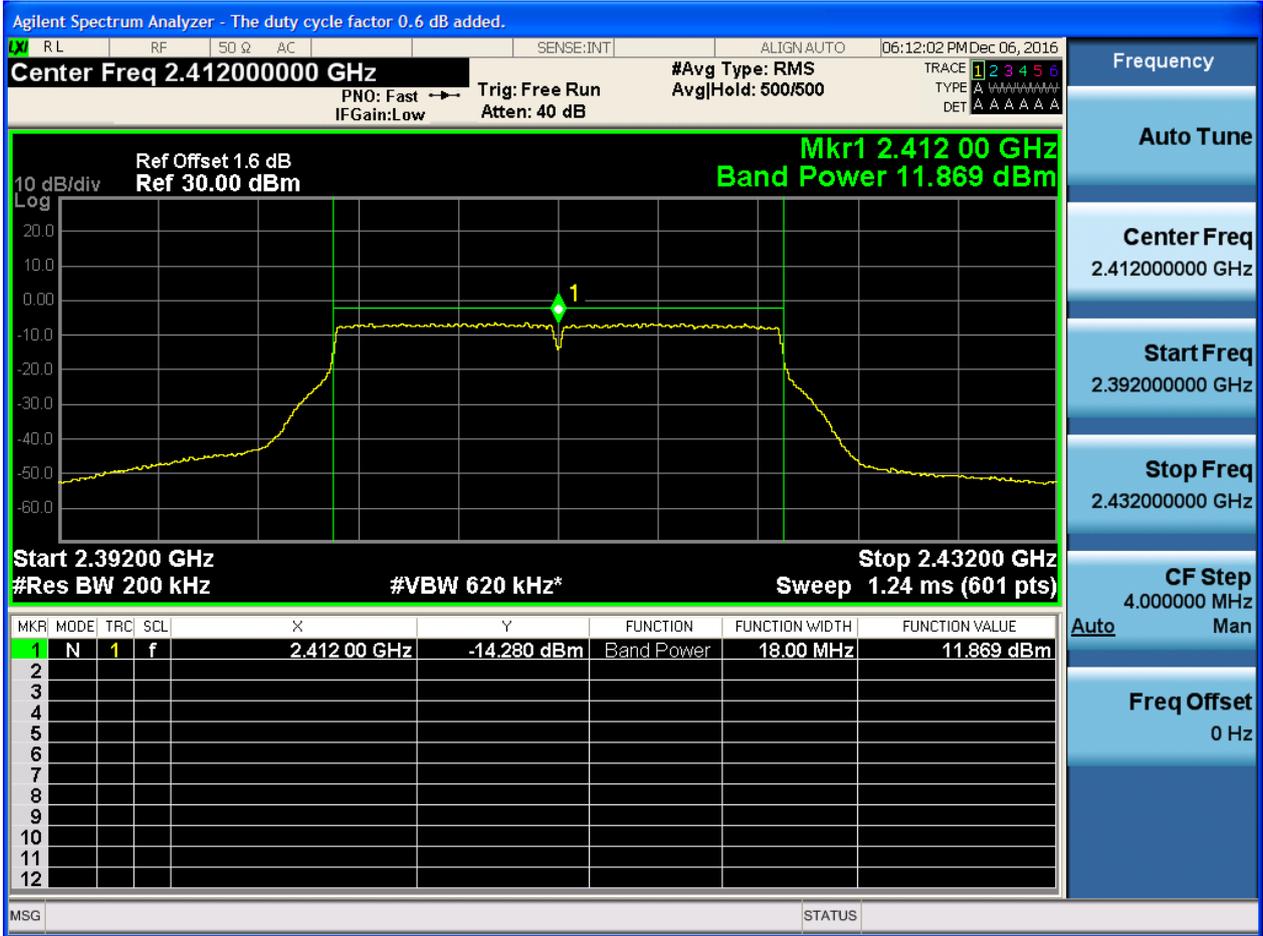




2.18 11N20_H@Ant 2

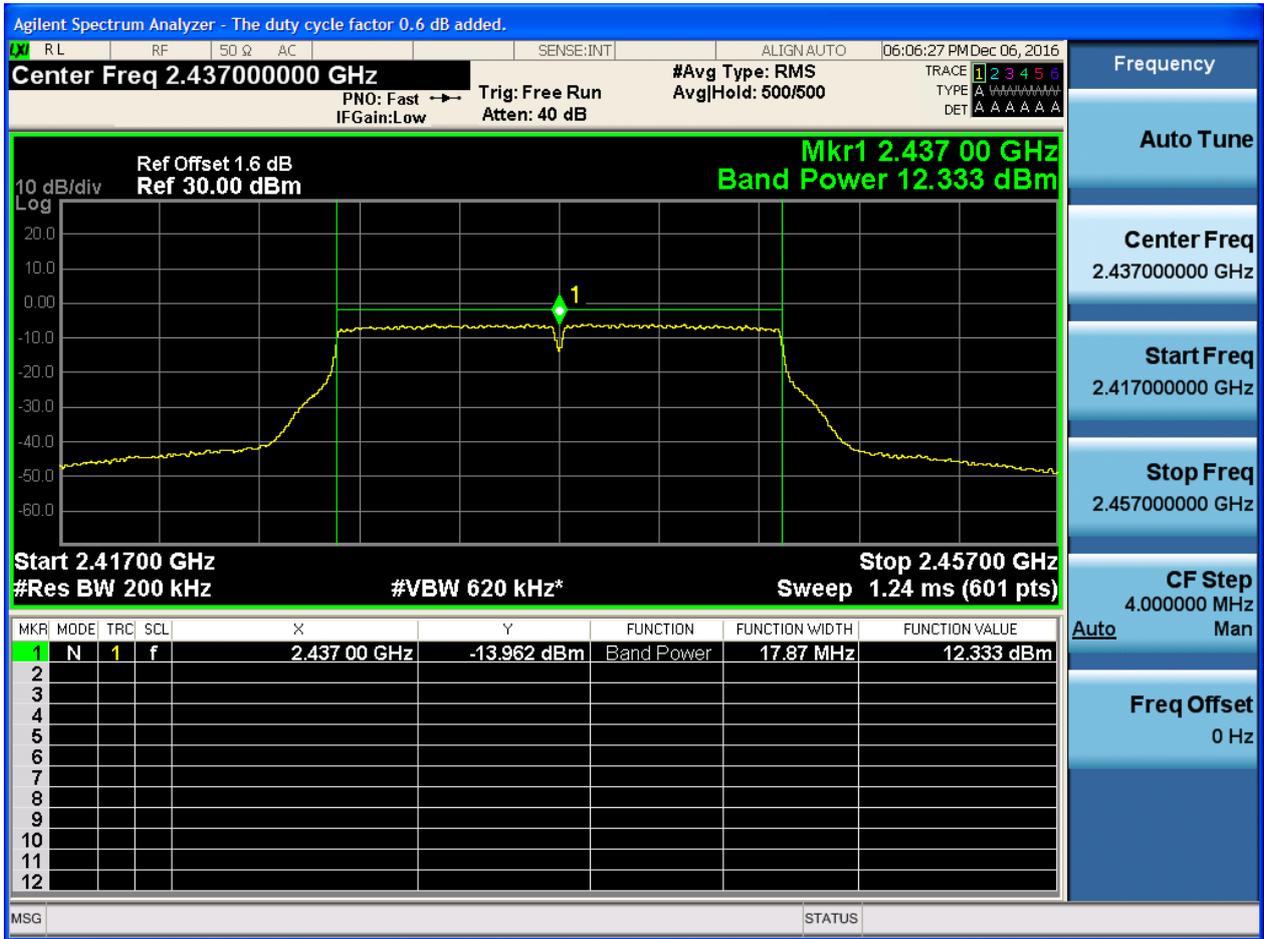


2.19 11N20m_L@Ant 2



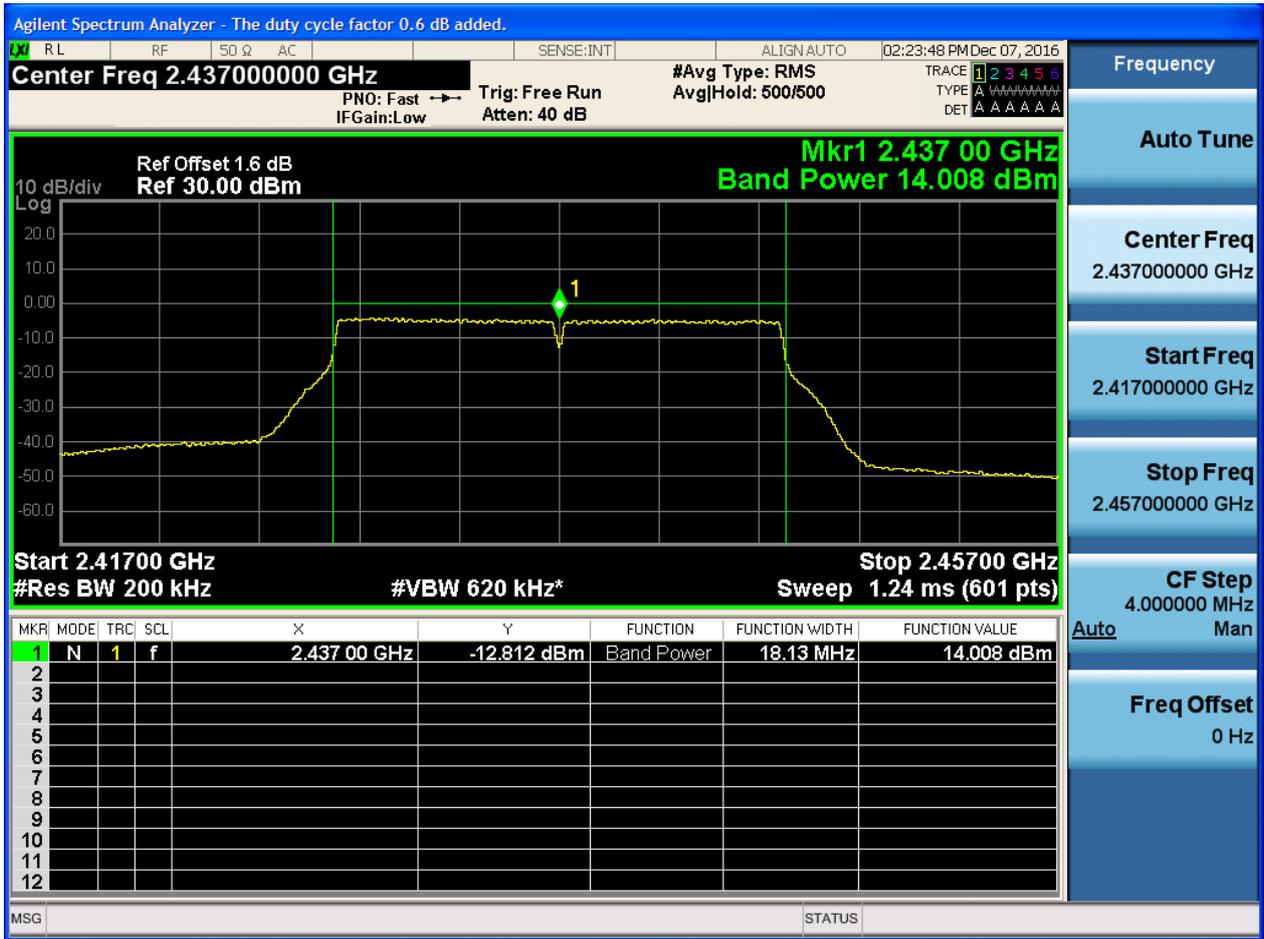


2.21 11N20m_M@Ant 2



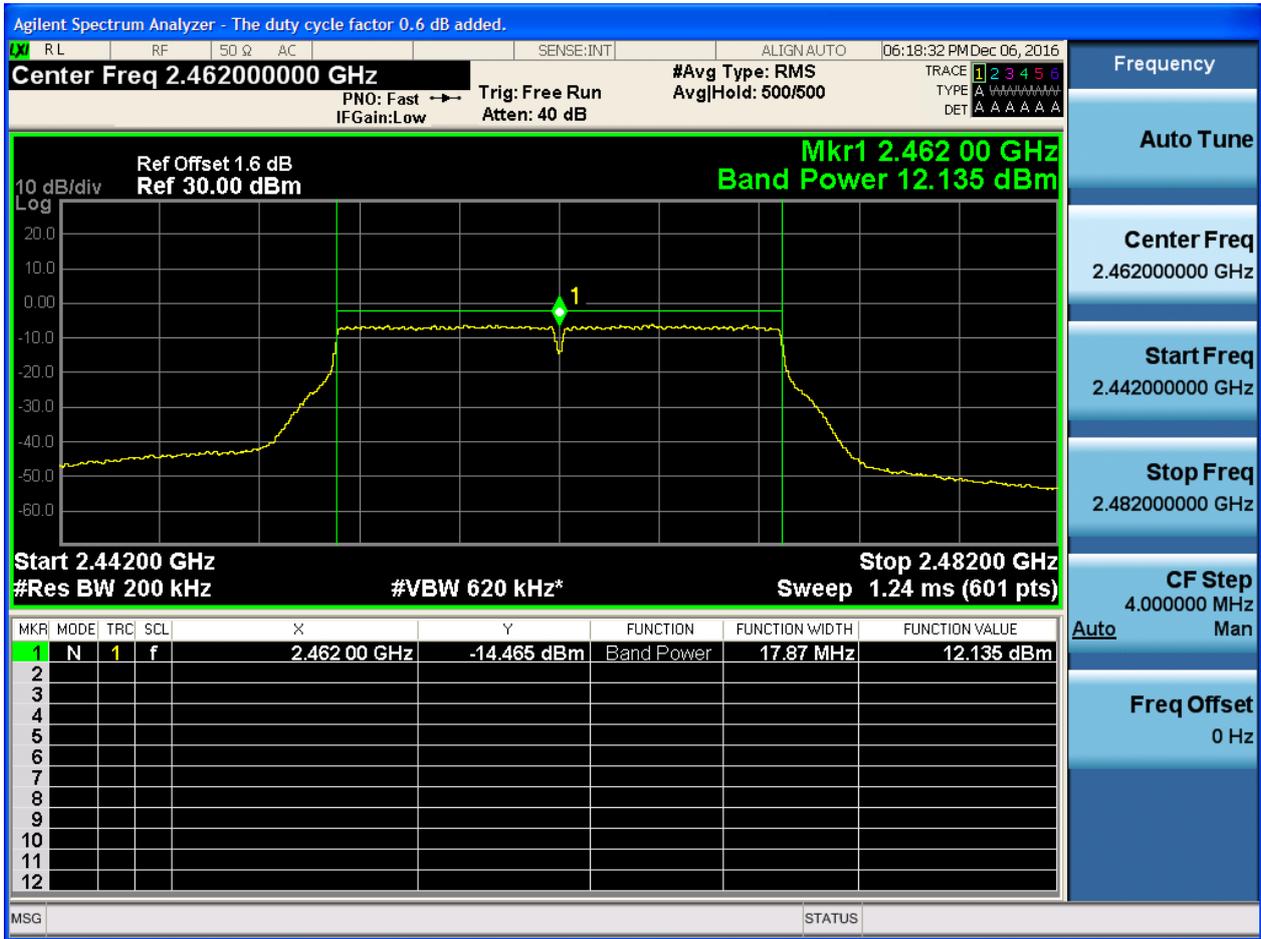


2.22 11N20m_M@Ant 1



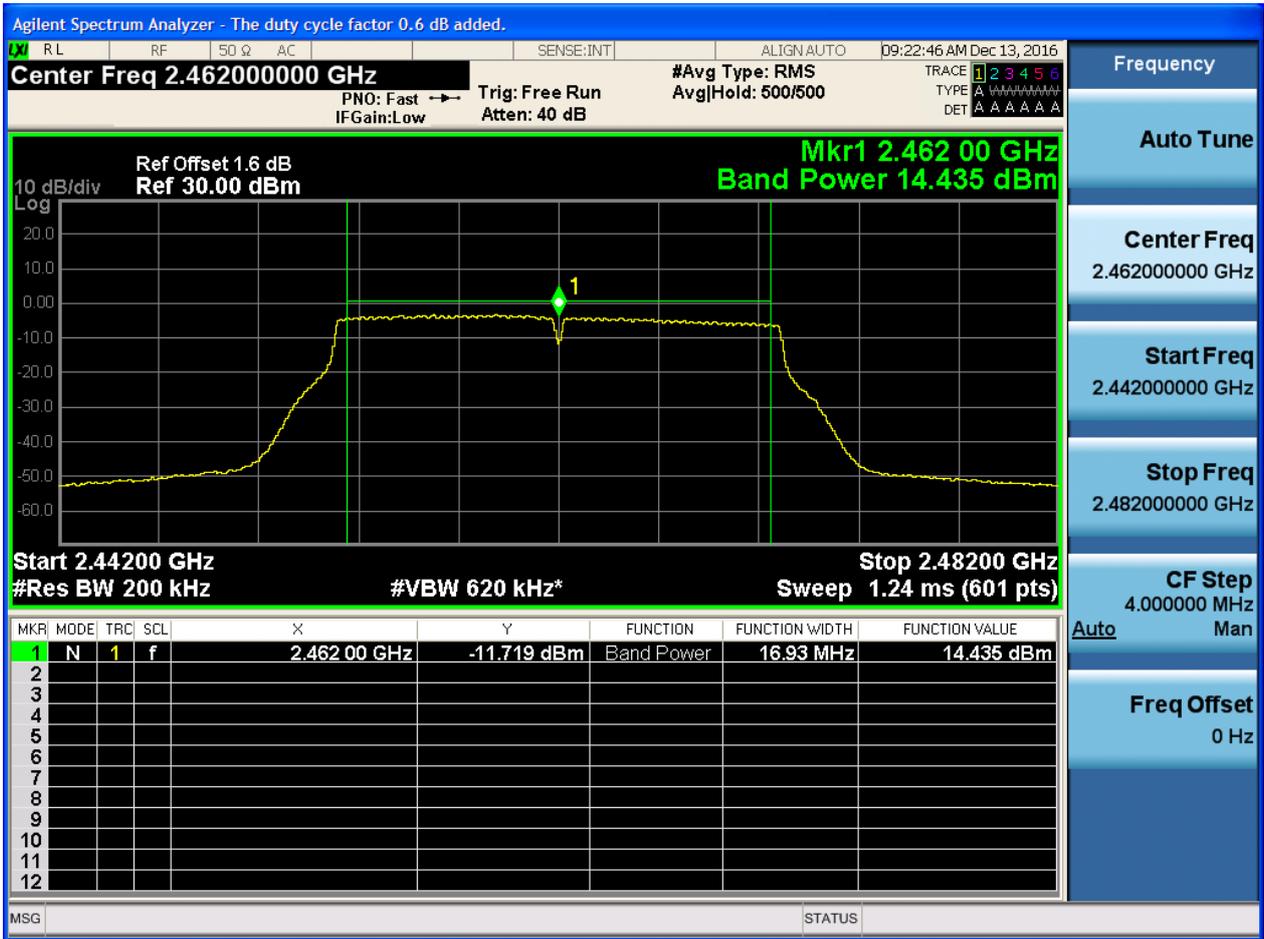


2.23 11N20m_H@Ant 2



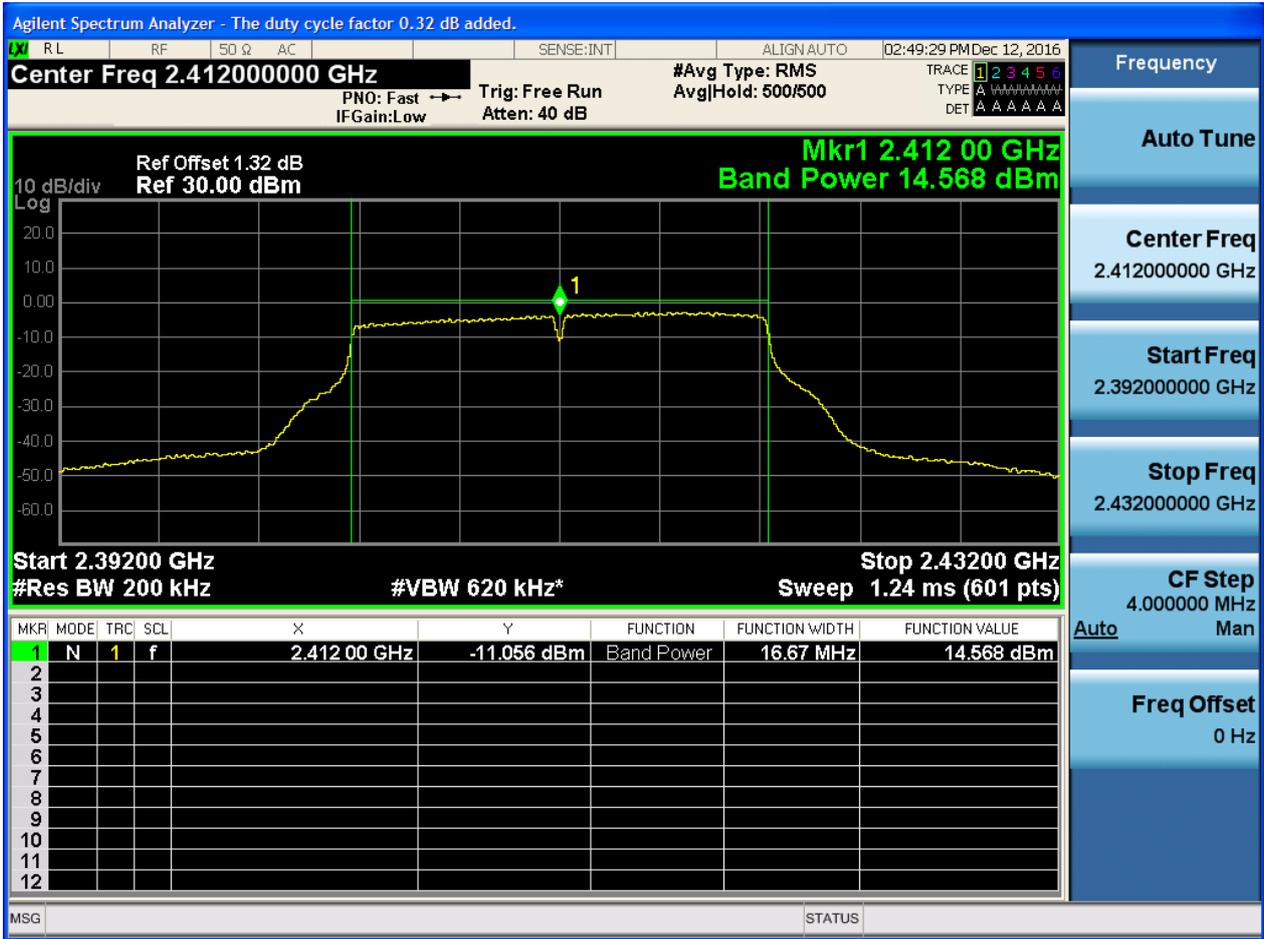


2.24 11N20m_H@Ant 1



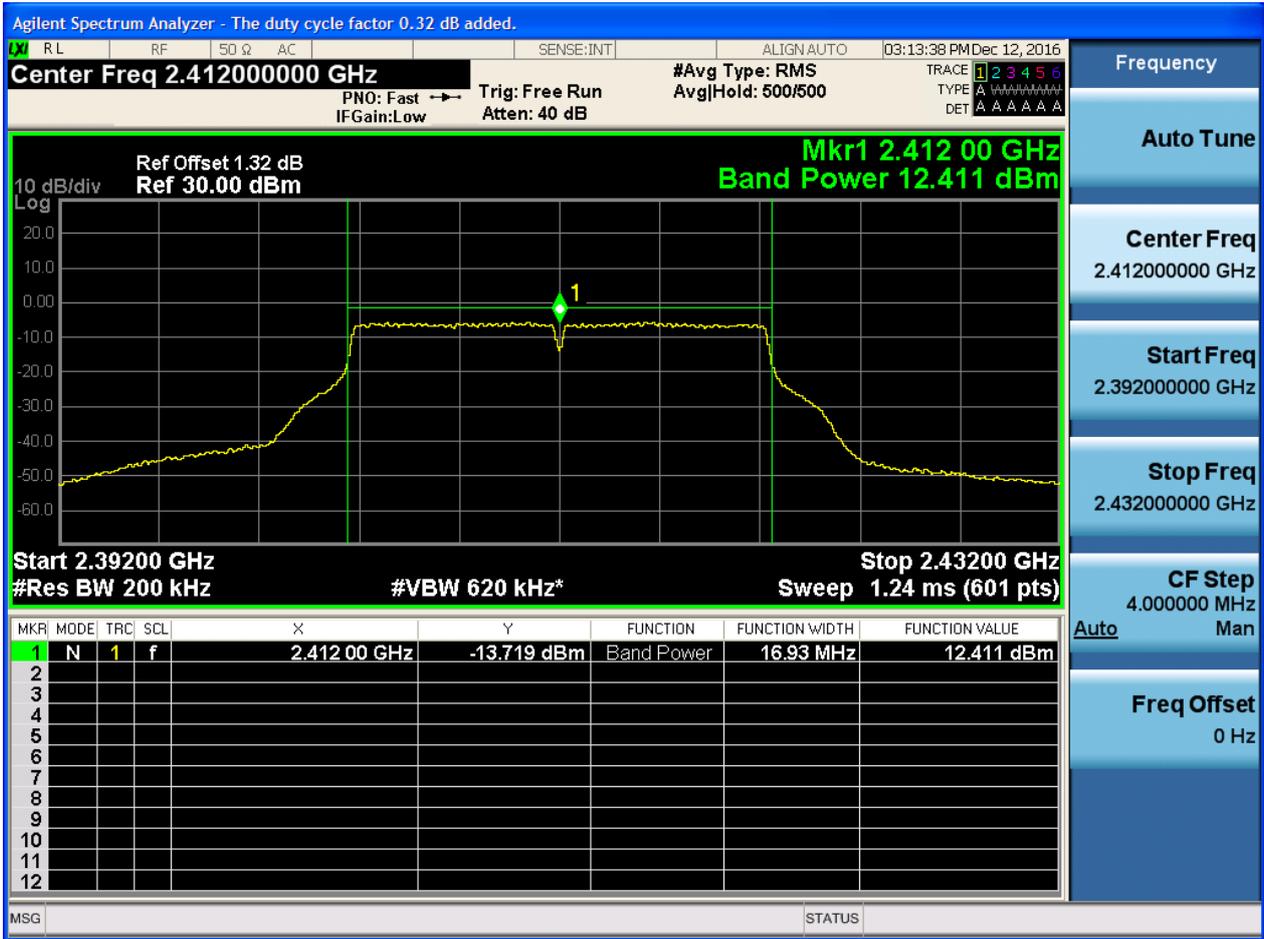


2.25 11G CDD L@Ant 1



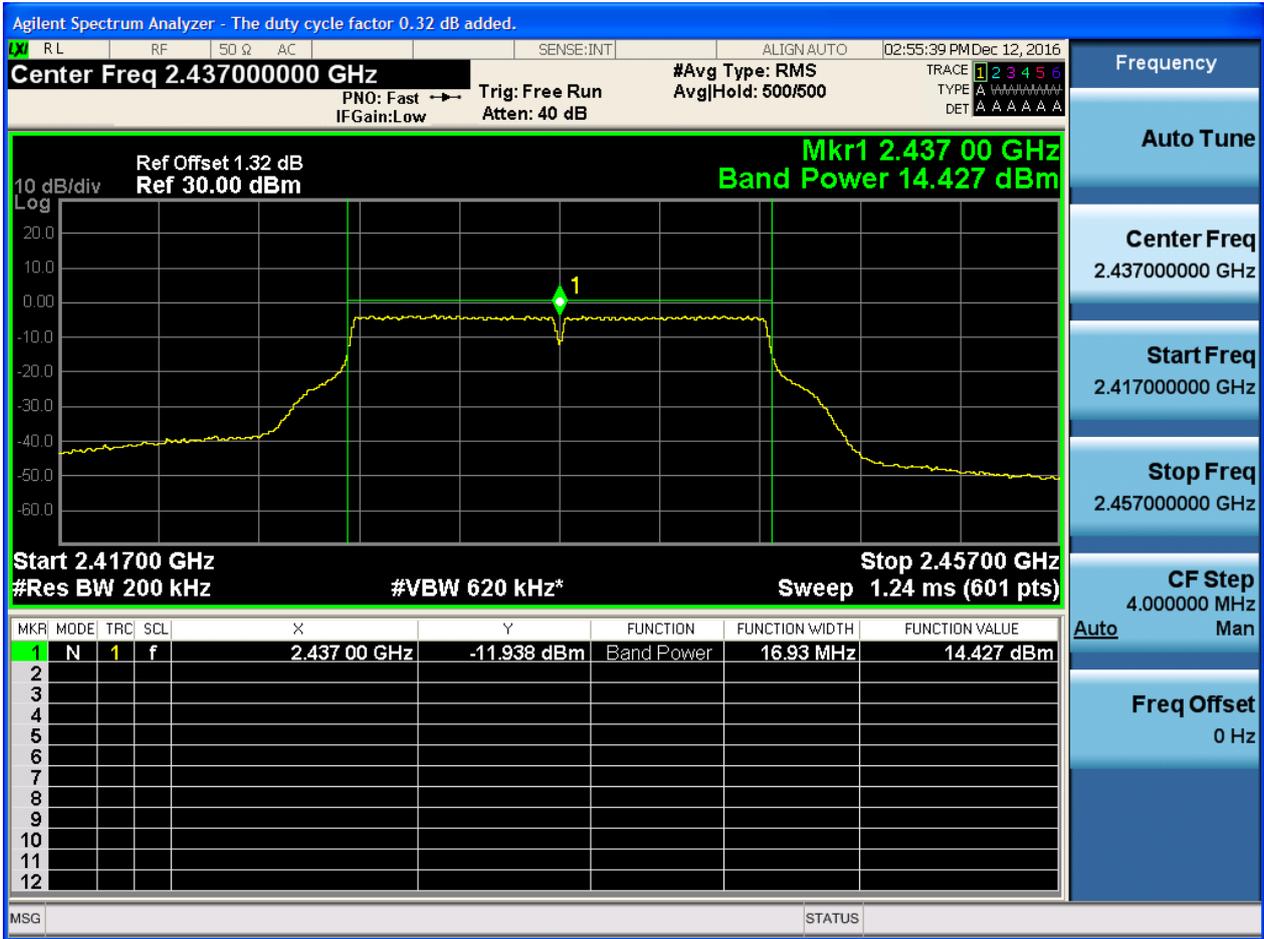


2.26 11G CDD L@Ant 2



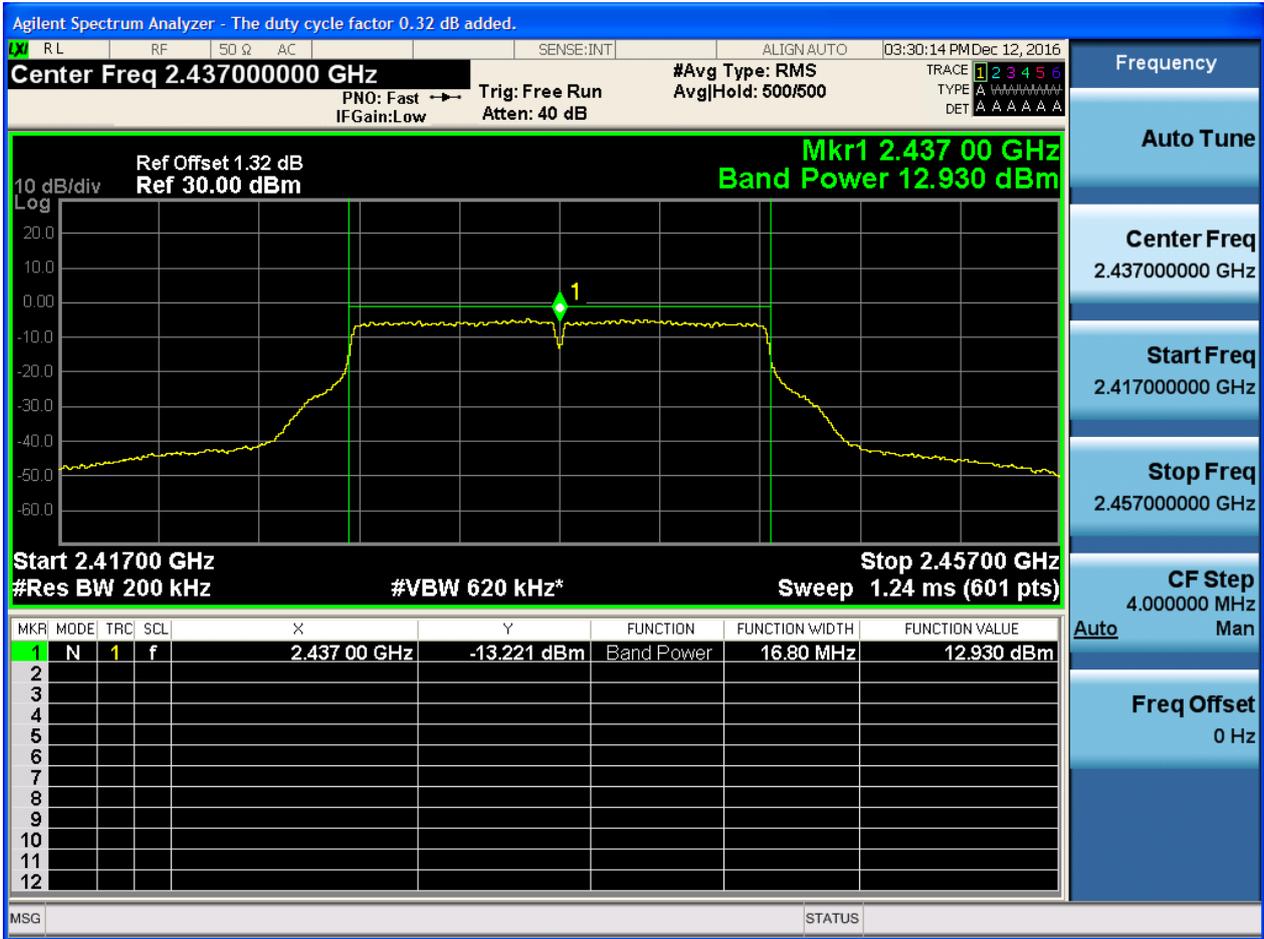


2.27 11G CDD M@Ant 1



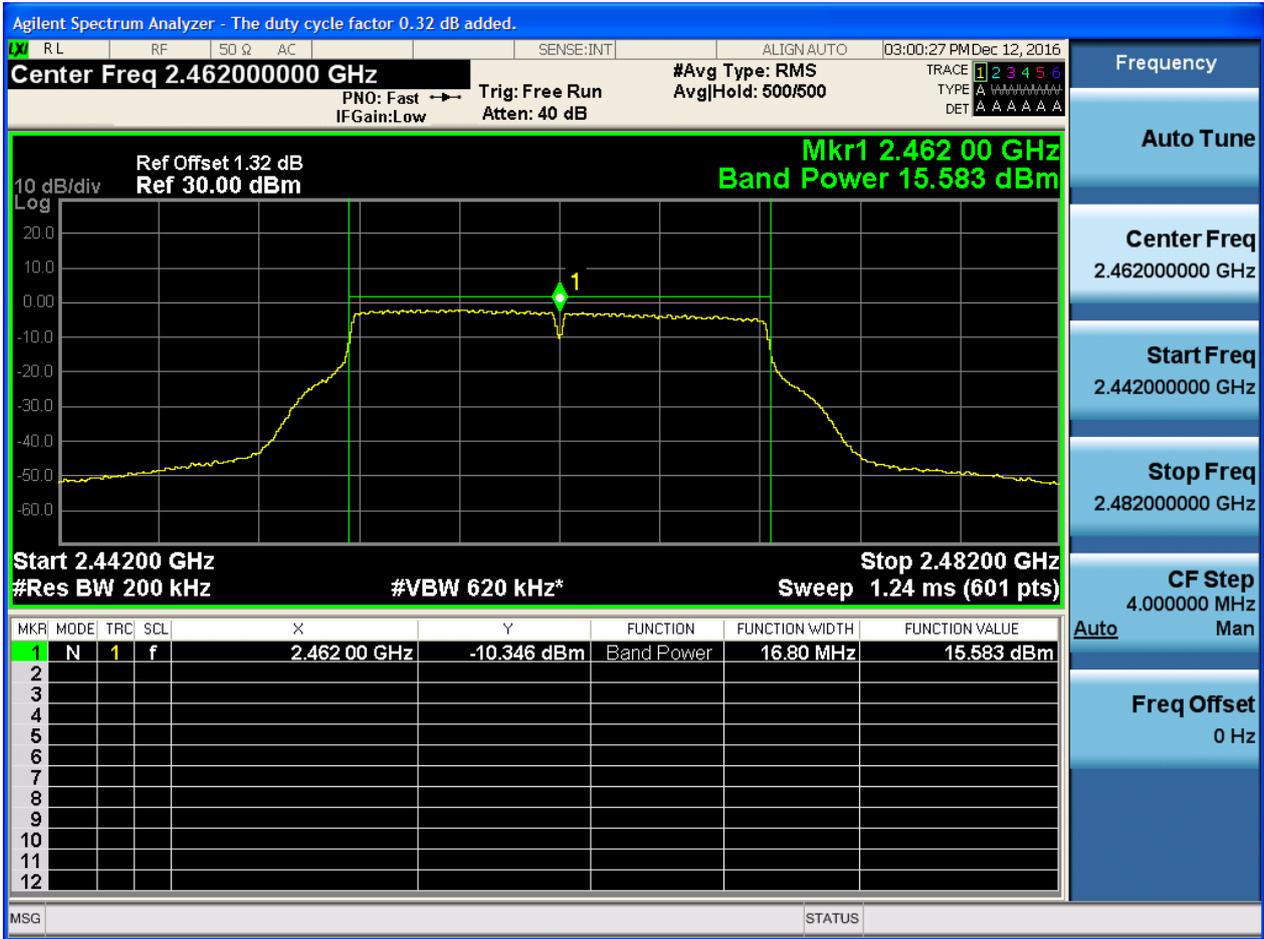


2.28 11G CDD M@Ant 2



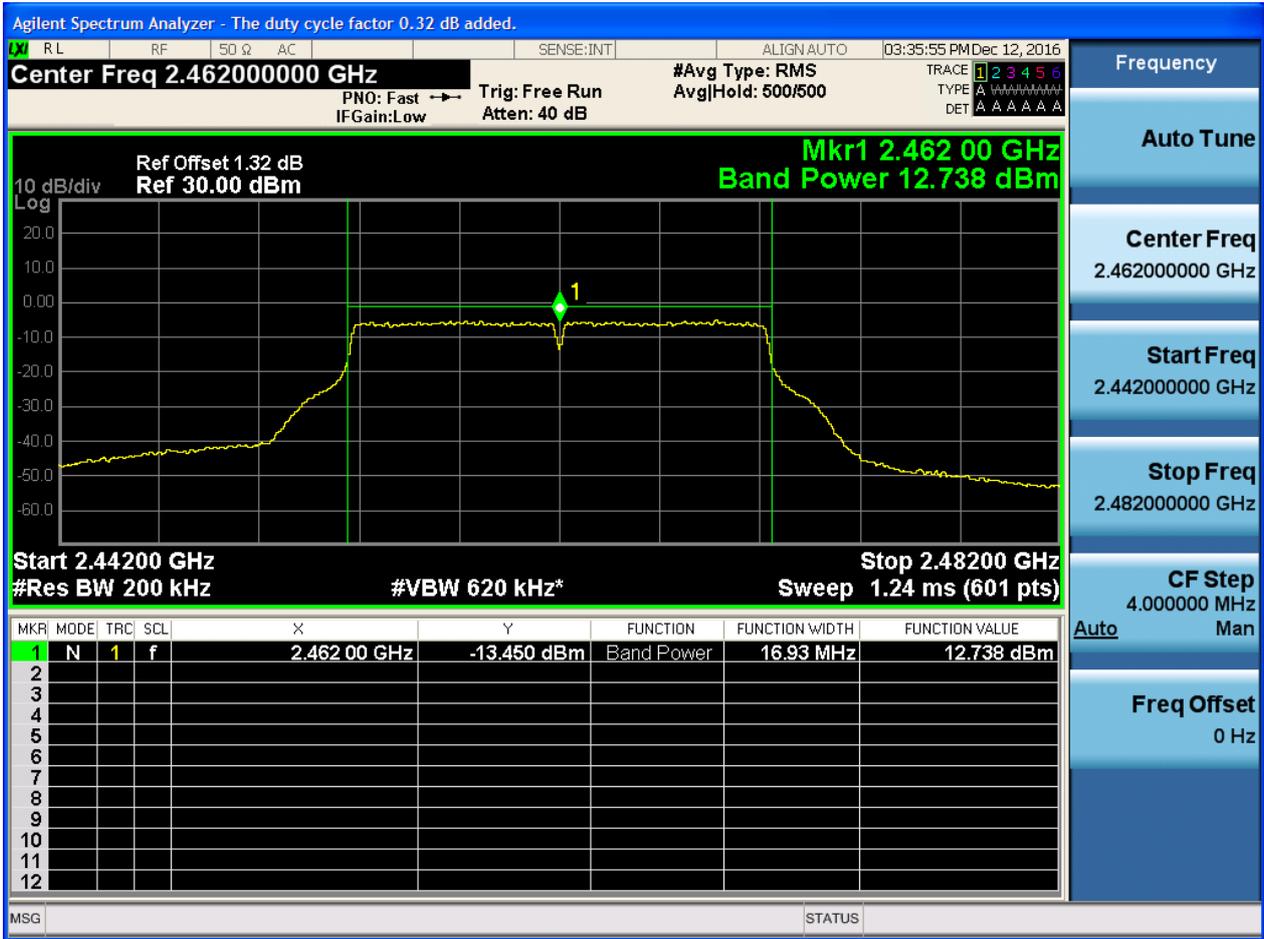


2.29 11G CDD H@Ant 1





2.30 11G CDD H@Ant 2





Appendix E: Maximum Power Spectral Density Level

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	PD[MHz]	Verdict
11B	L	2412	Ant 1	-9.70	pass
11B	L	2412	Ant 2	-12.44	pass
11B	M	2437	Ant 1	-9.77	pass
11B	M	2437	Ant 2	-11.92	pass
11B	H	2462	Ant 1	-8.49	pass
11B	H	2462	Ant 2	-12.19	pass
11G	L	2412	Ant 1	-14.03	pass
11G	L	2412	Ant 2	-16.66	pass
11G	M	2437	Ant 1	-14.26	pass
11G	M	2437	Ant 2	-16.15	pass
11G	H	2462	Ant 1	-12.67	pass
11G	H	2462	Ant 2	-16.41	pass
11N20	L	2412	Ant 1	-15.57	pass
11N20	L	2412	Ant 2	-18.85	pass
11N20	M	2437	Ant 1	-15.97	pass
11N20	M	2437	Ant 2	-18.21	pass
11N20	H	2462	Ant 1	-14.67	pass
11N20	H	2462	Ant 2	-18.51	pass
11N20m	L	2412	Ant 2	-17.90	pass
11N20m	L	2412	Ant 1	-15.23	pass
11N20m	L	2412	SUM	-13.35	pass
11N20m	M	2437	Ant 2	-17.29	pass
11N20m	M	2437	Ant 1	-15.92	pass
11N20m	M	2437	SUM	-13.54	pass
11N20m	H	2462	Ant 2	-17.60	pass
11N20m	H	2462	Ant 1	-14.38	pass
11N20m	H	2462	SUM	-12.69	pass
11G CDD	L	2412	Ant 1	-14.22	pass
11G CDD	L	2412	Ant 2	-16.89	pass
11G CDD	M	2437	Ant 1	-15.07	pass
11G CDD	M	2437	Ant 2	-16.35	pass
11G CDD	H	2462	Ant 1	-13.05	pass
11G CDD	H	2462	Ant 2	-16.59	pass



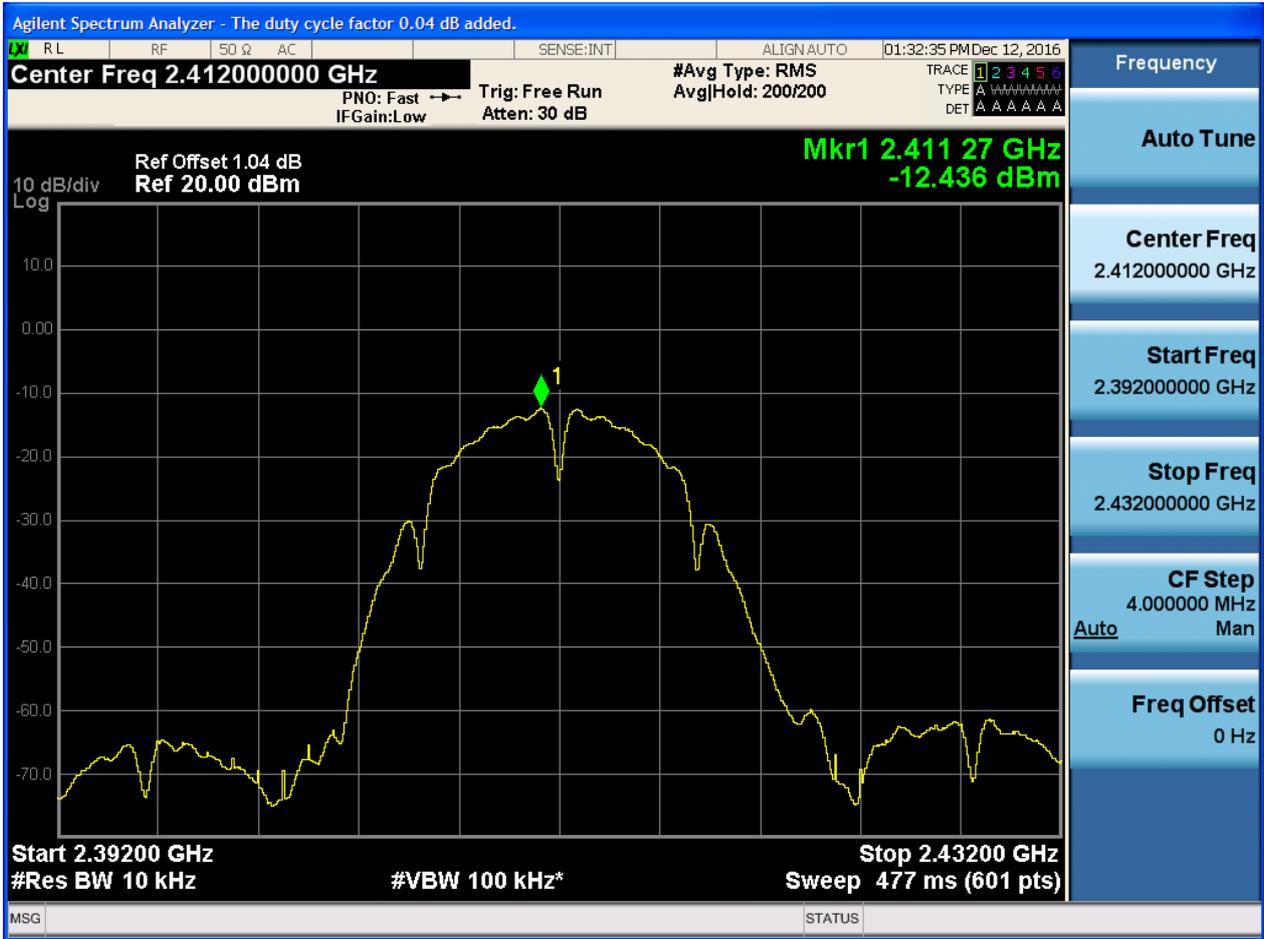
Part II - Test Plots

2.1 11B_L@Ant 1





2.2 11B_L@Ant 2



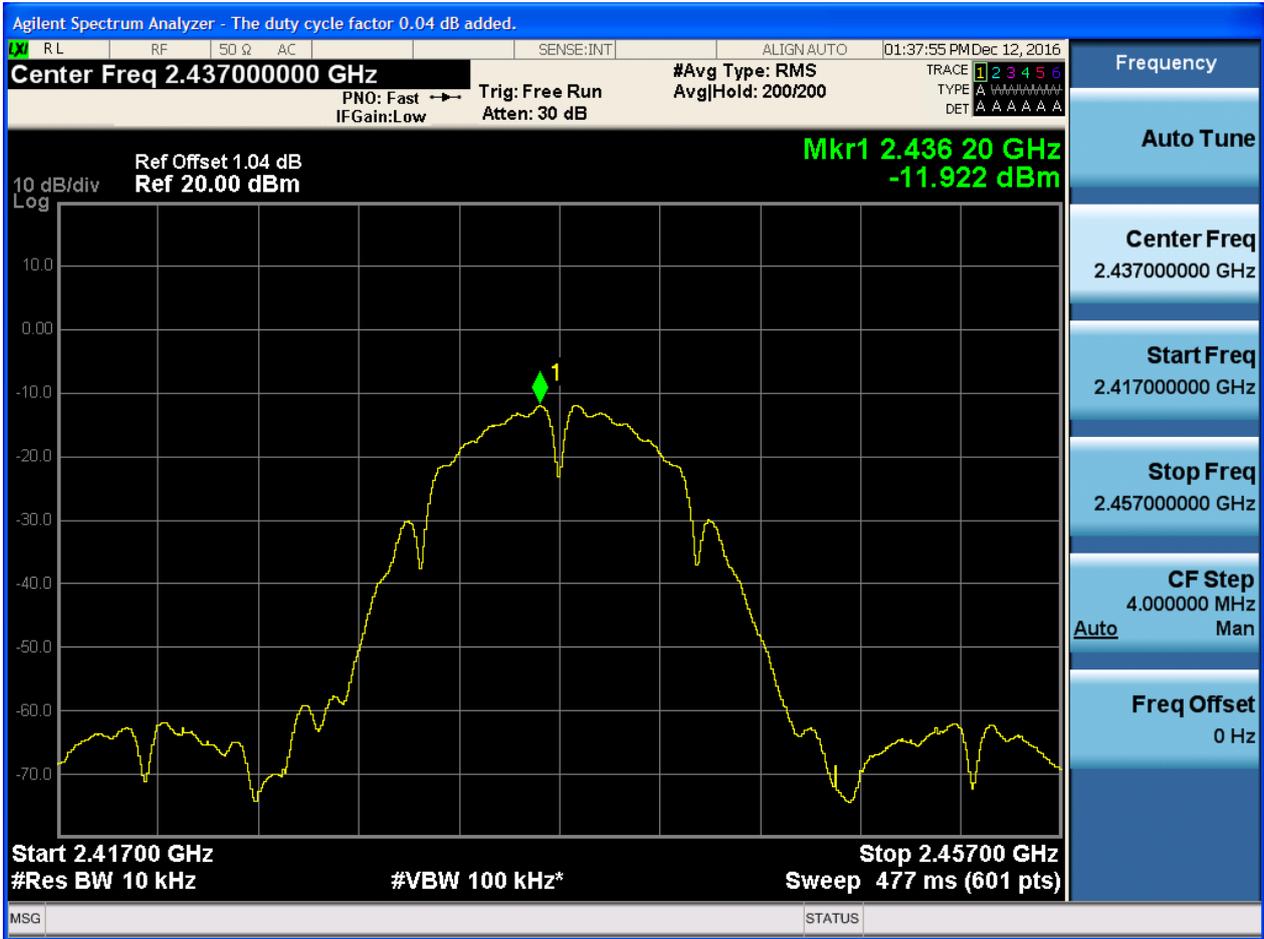


2.3 11B_M@Ant 1





2.4 11B_M@Ant 2





2.5 11B_H@Ant 1



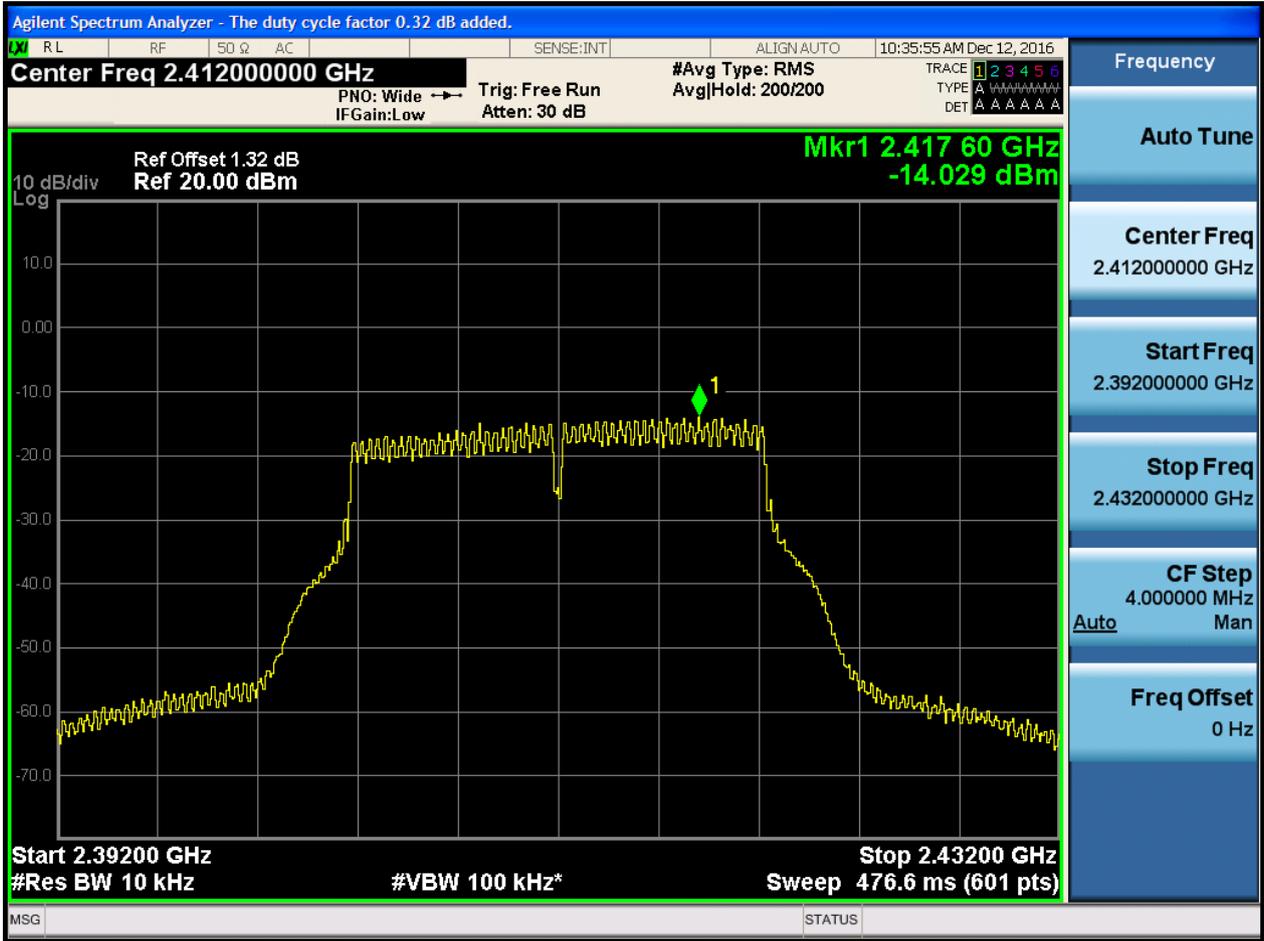


2.6 11B_H@Ant 2



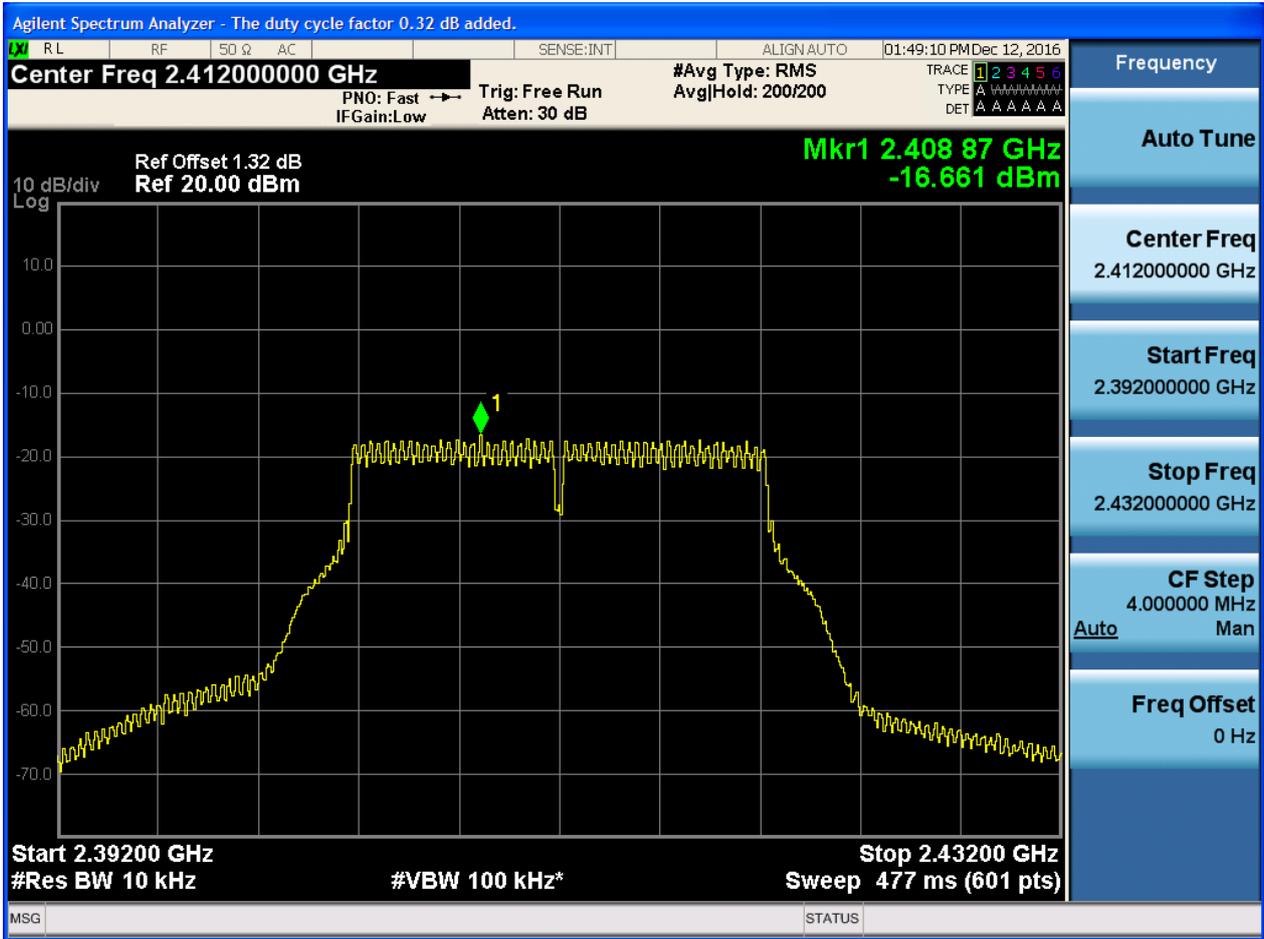


2.7 11G_L@Ant 1



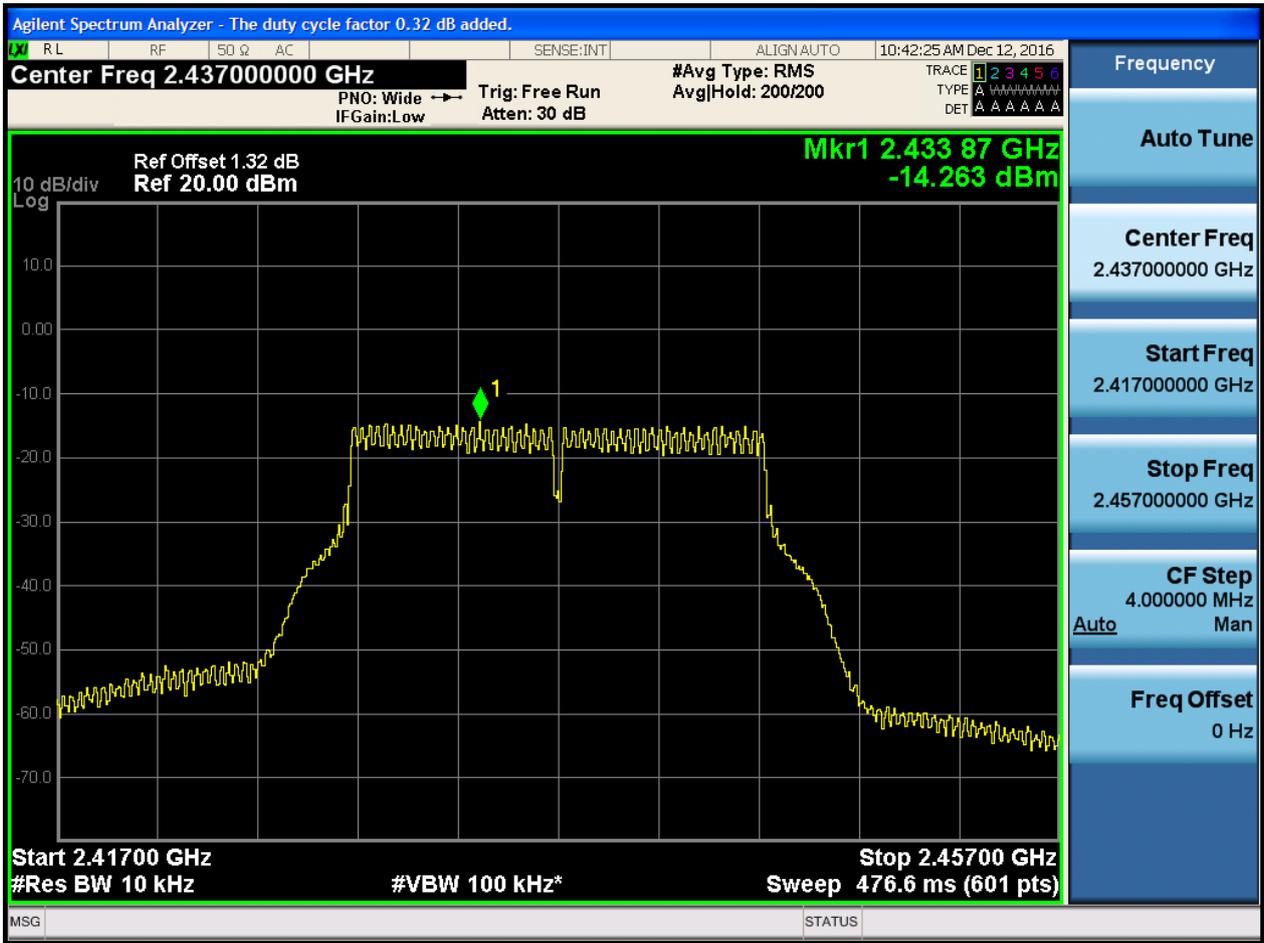


2.8 11G_L@Ant 2



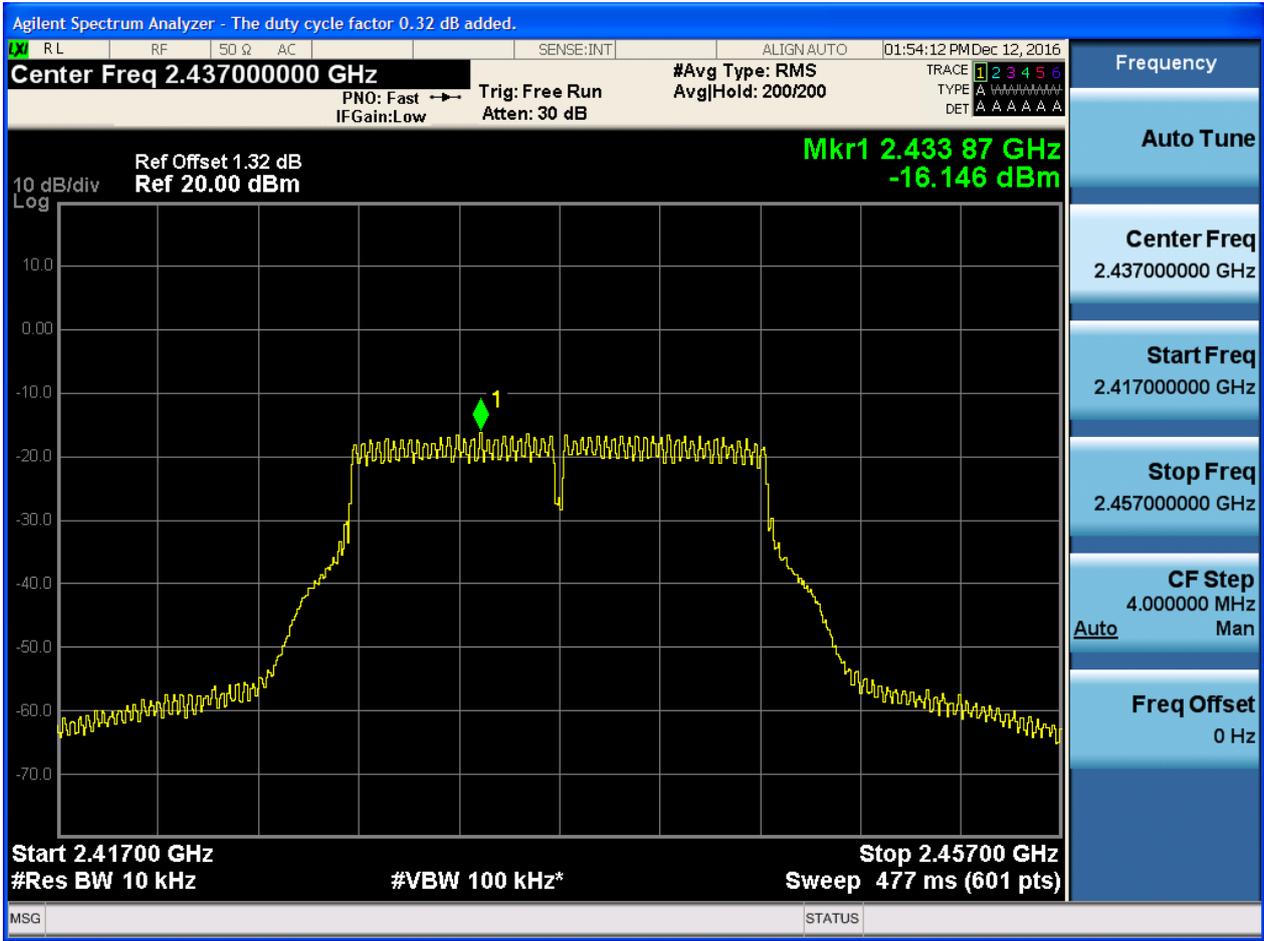


2.9 11G_M@Ant 1



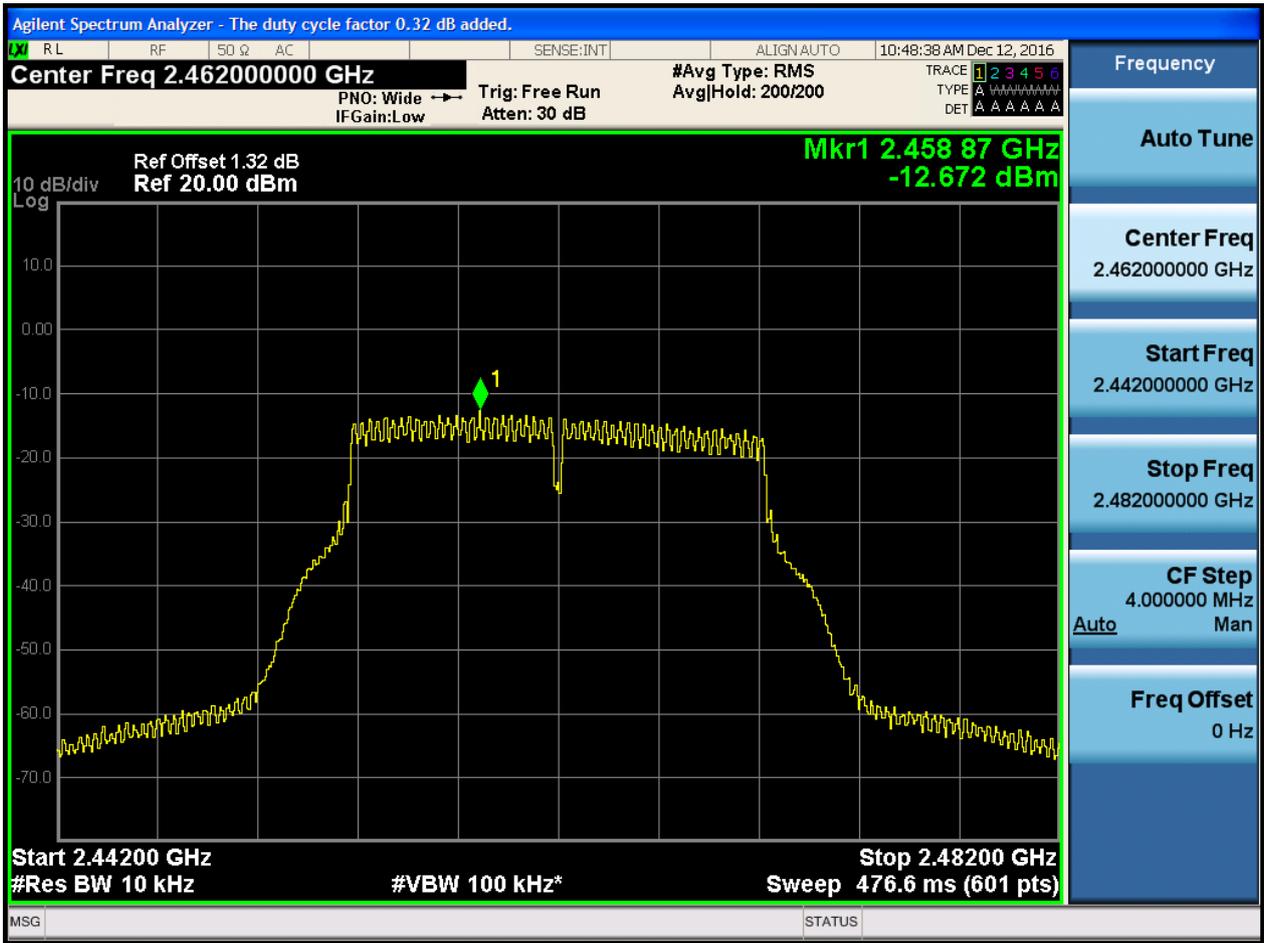


2.10 11G_M@Ant 2



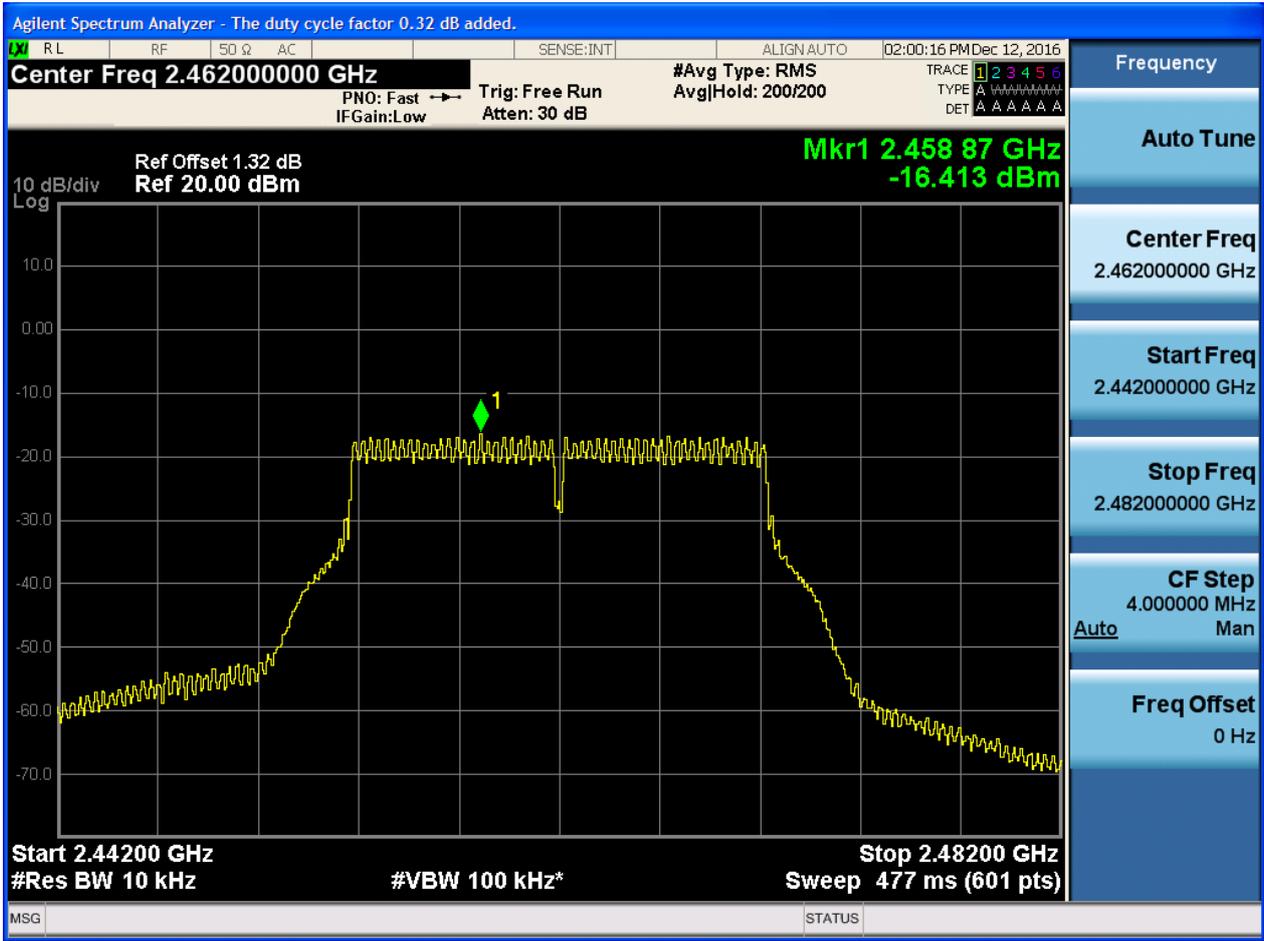


2.11 11G_H@Ant 1



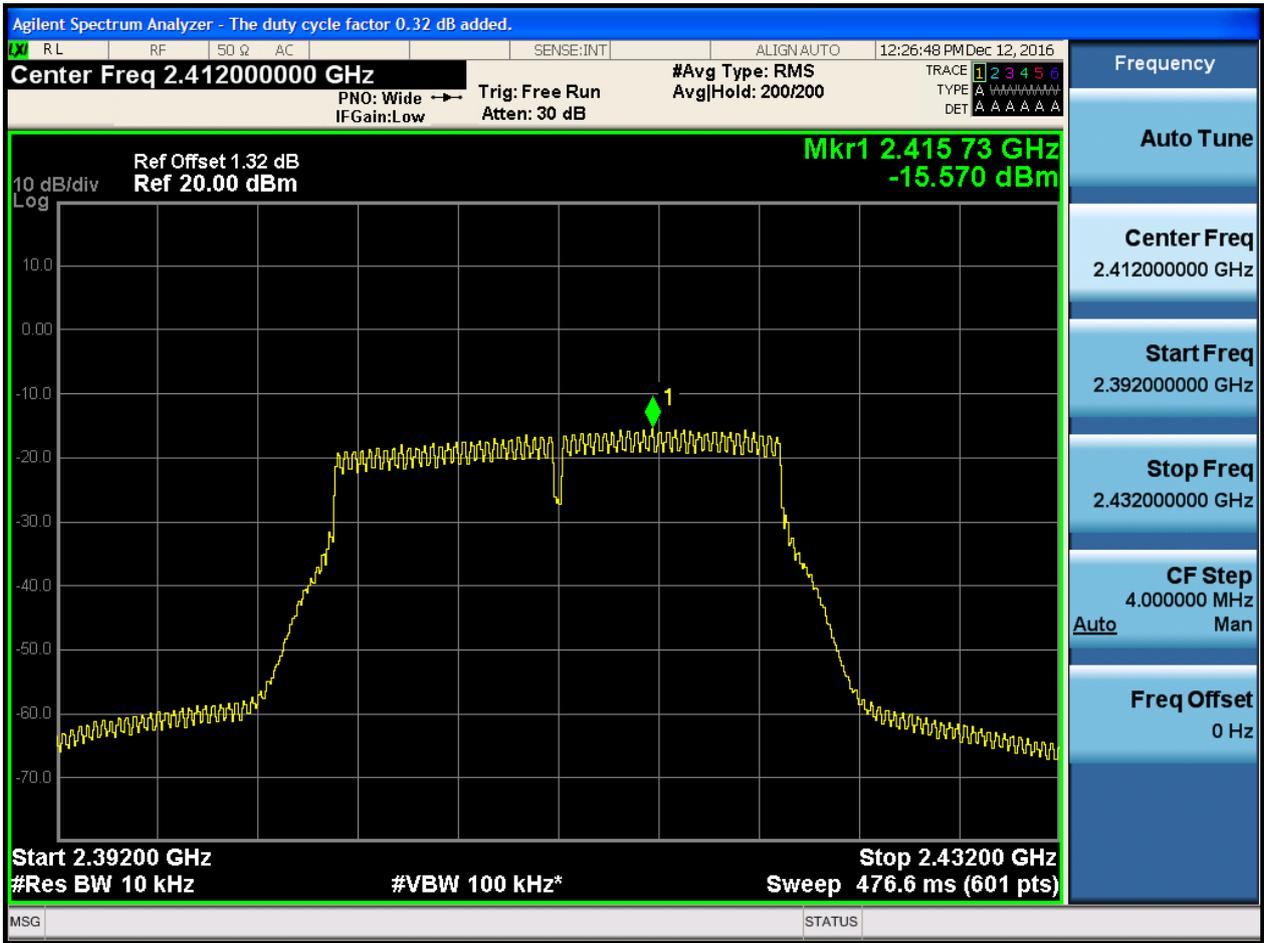


2.12 11G_H@Ant 2



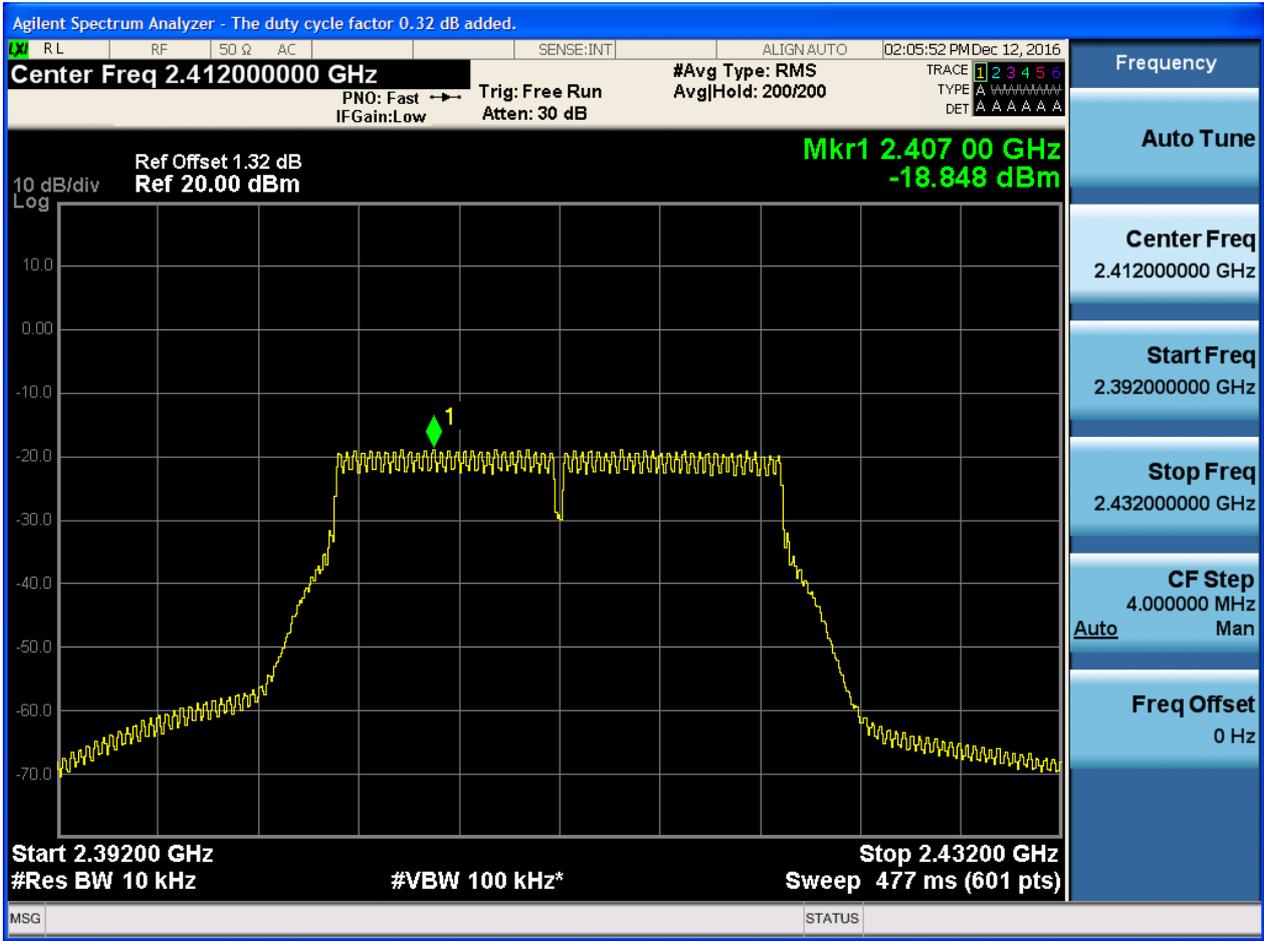


2.13 11N20_L@Ant 1



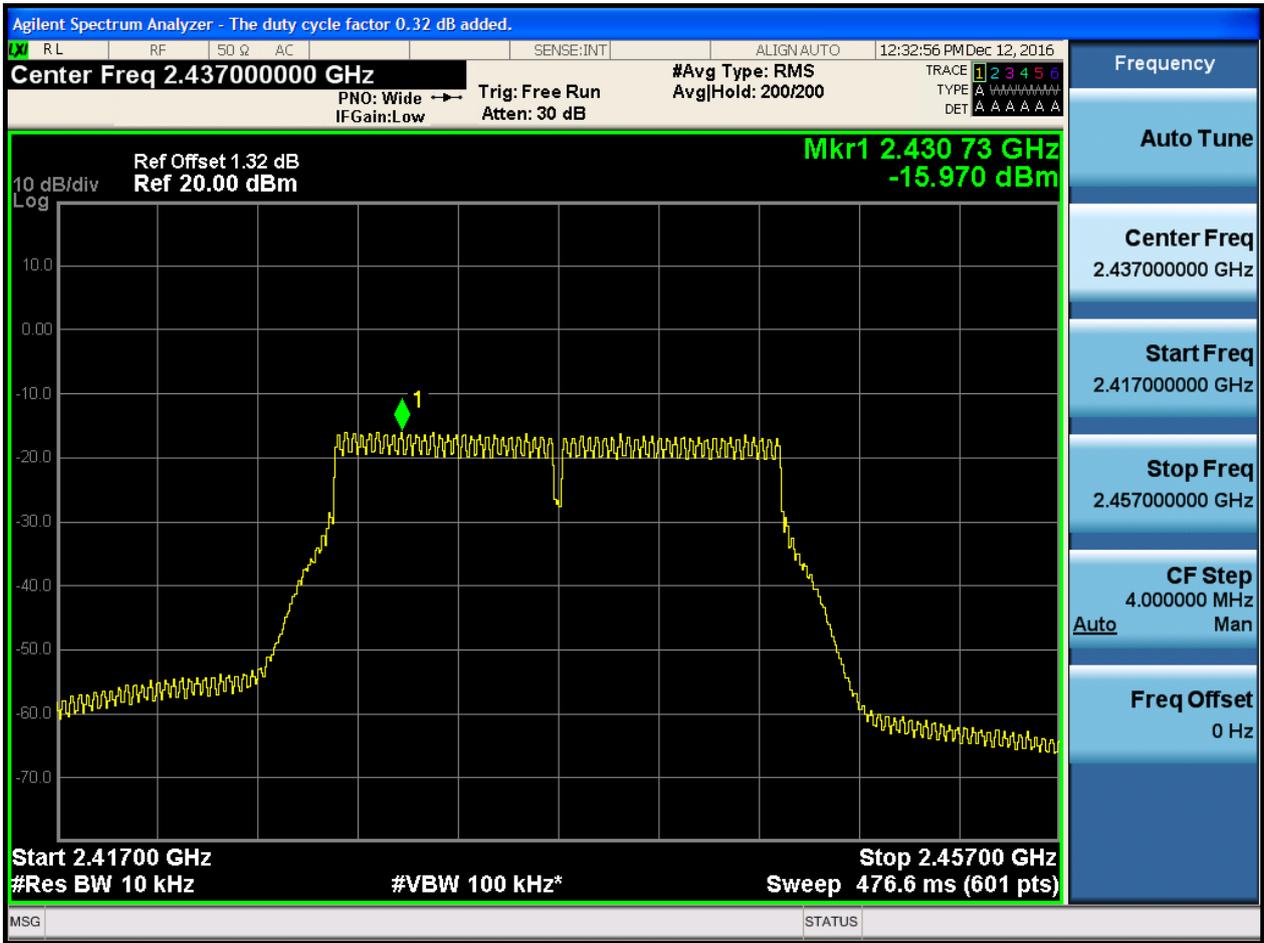


2.14 11N20_L@Ant 2



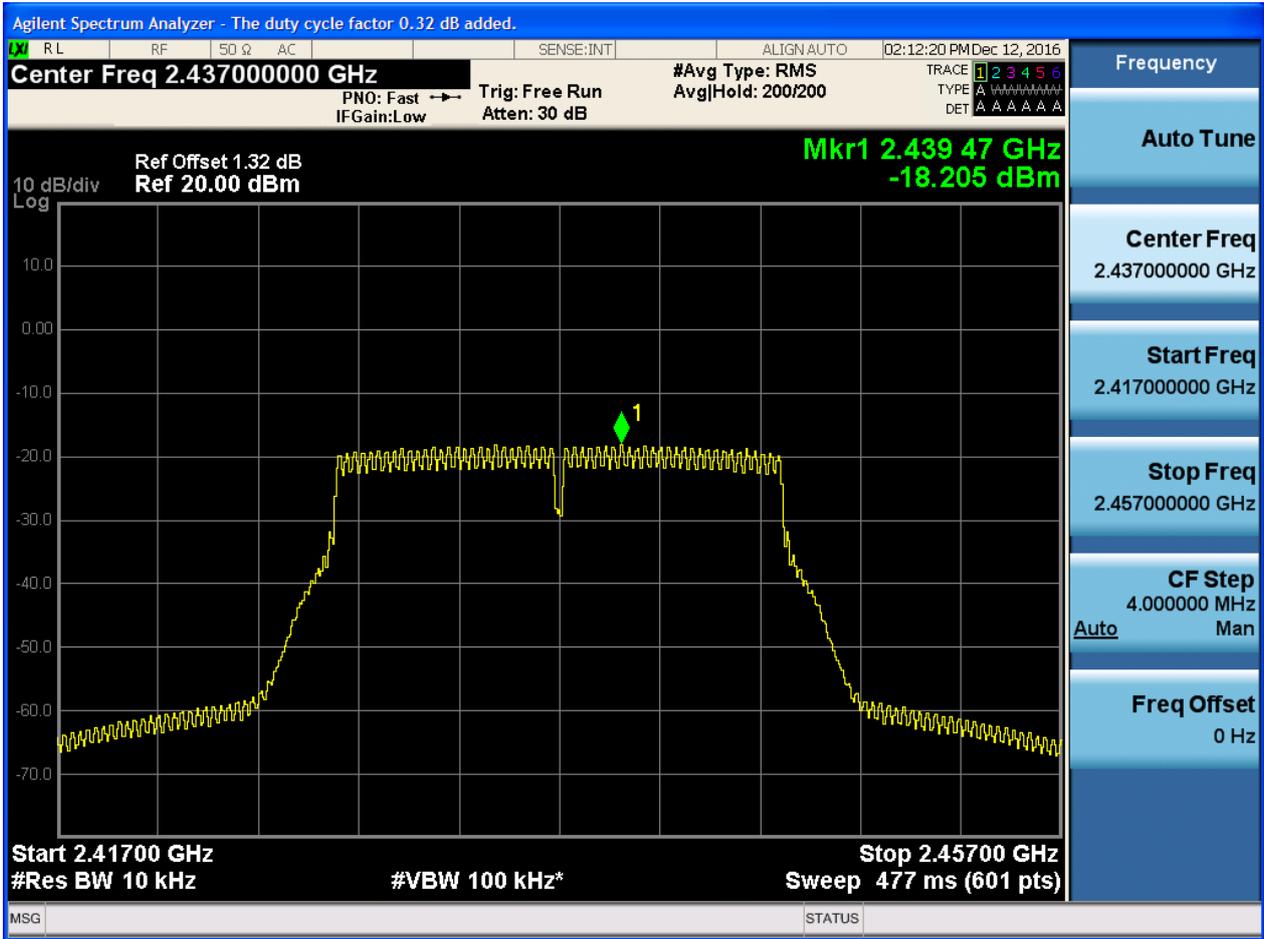


2.15 11N20_M@Ant 1



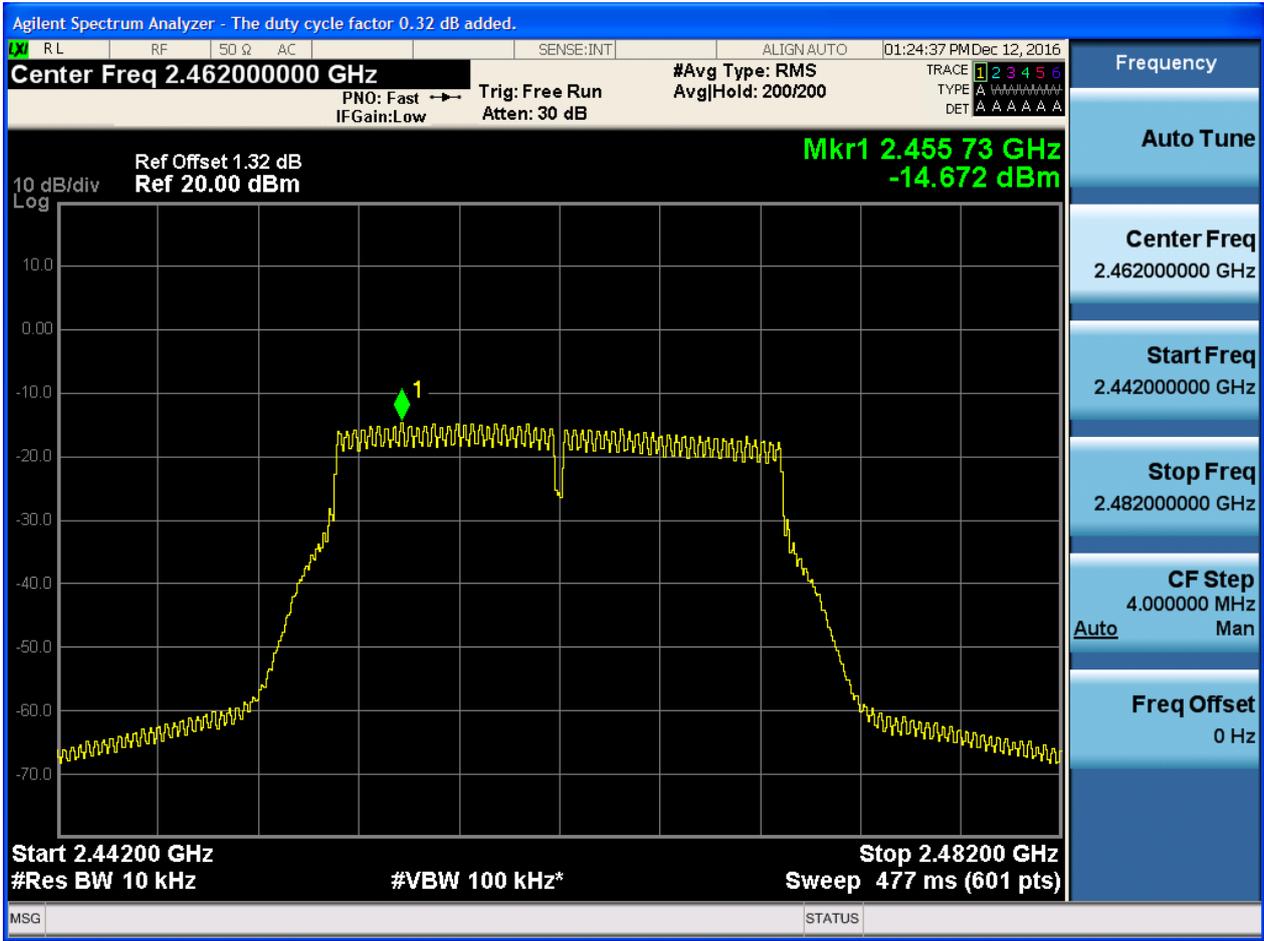


2.16 11N20_M@Ant 2



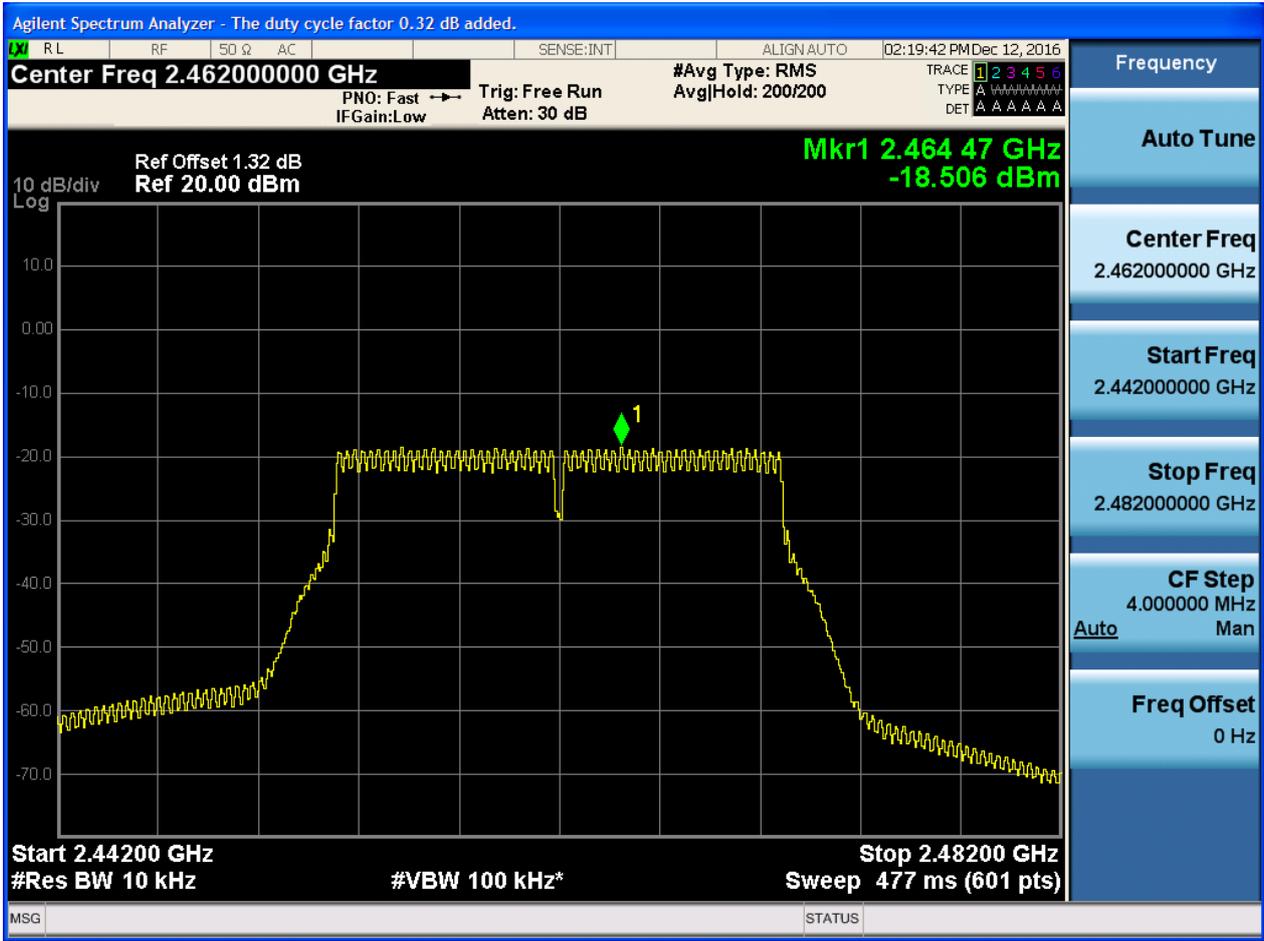


2.17 11N20_H@Ant 1



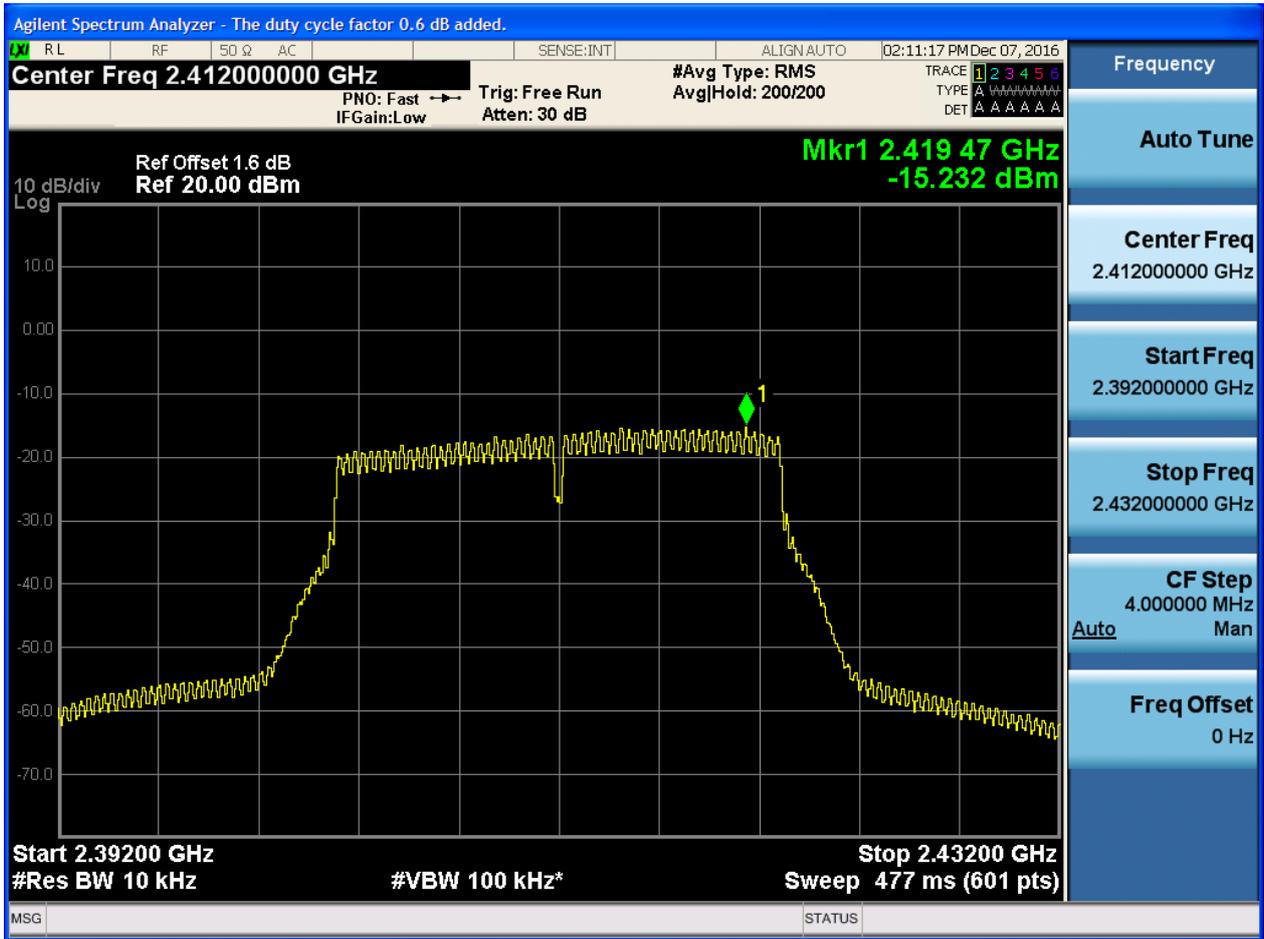


2.18 11N20_H@Ant 2



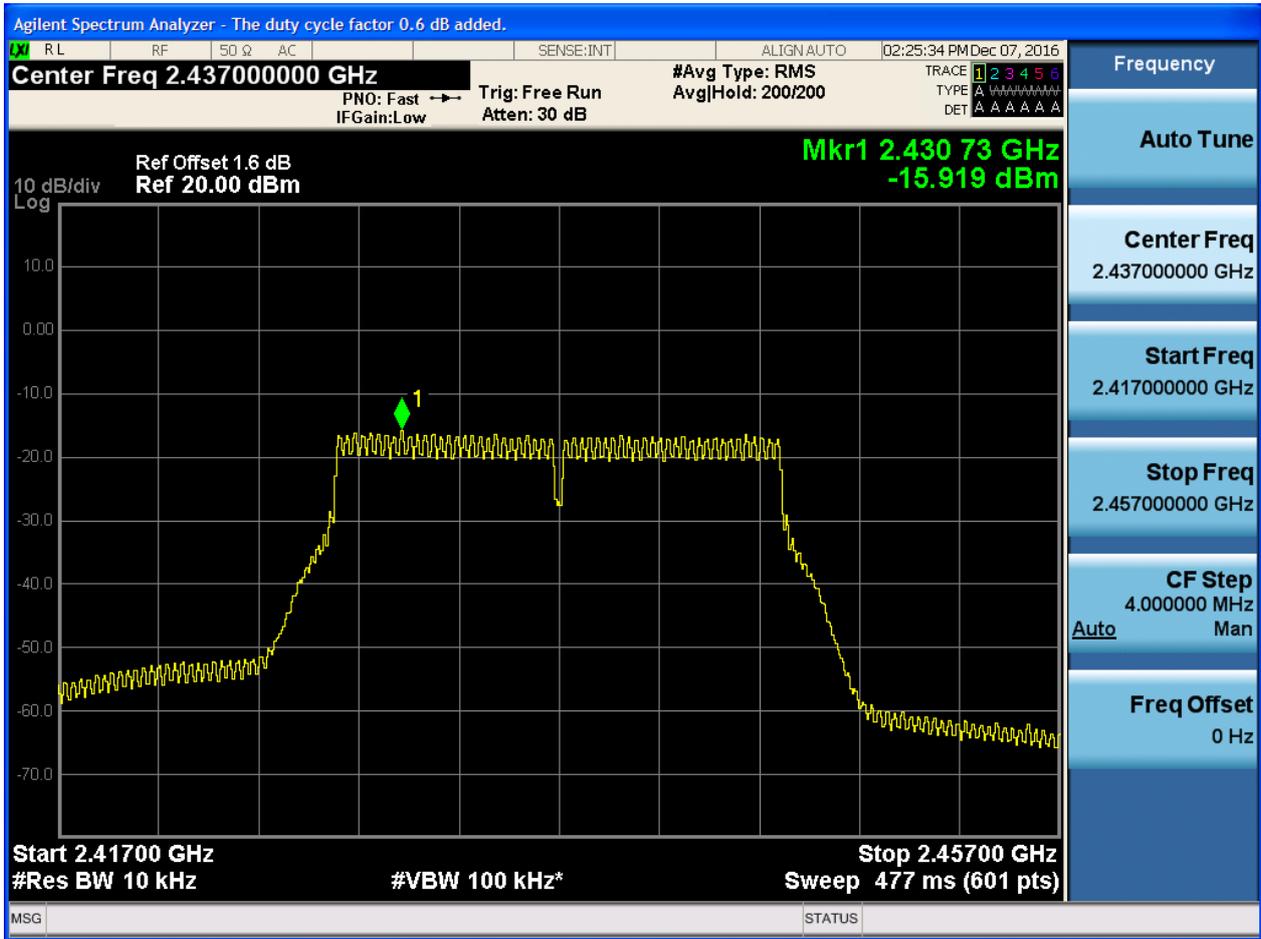


2.20 11N20m_L@Ant 1



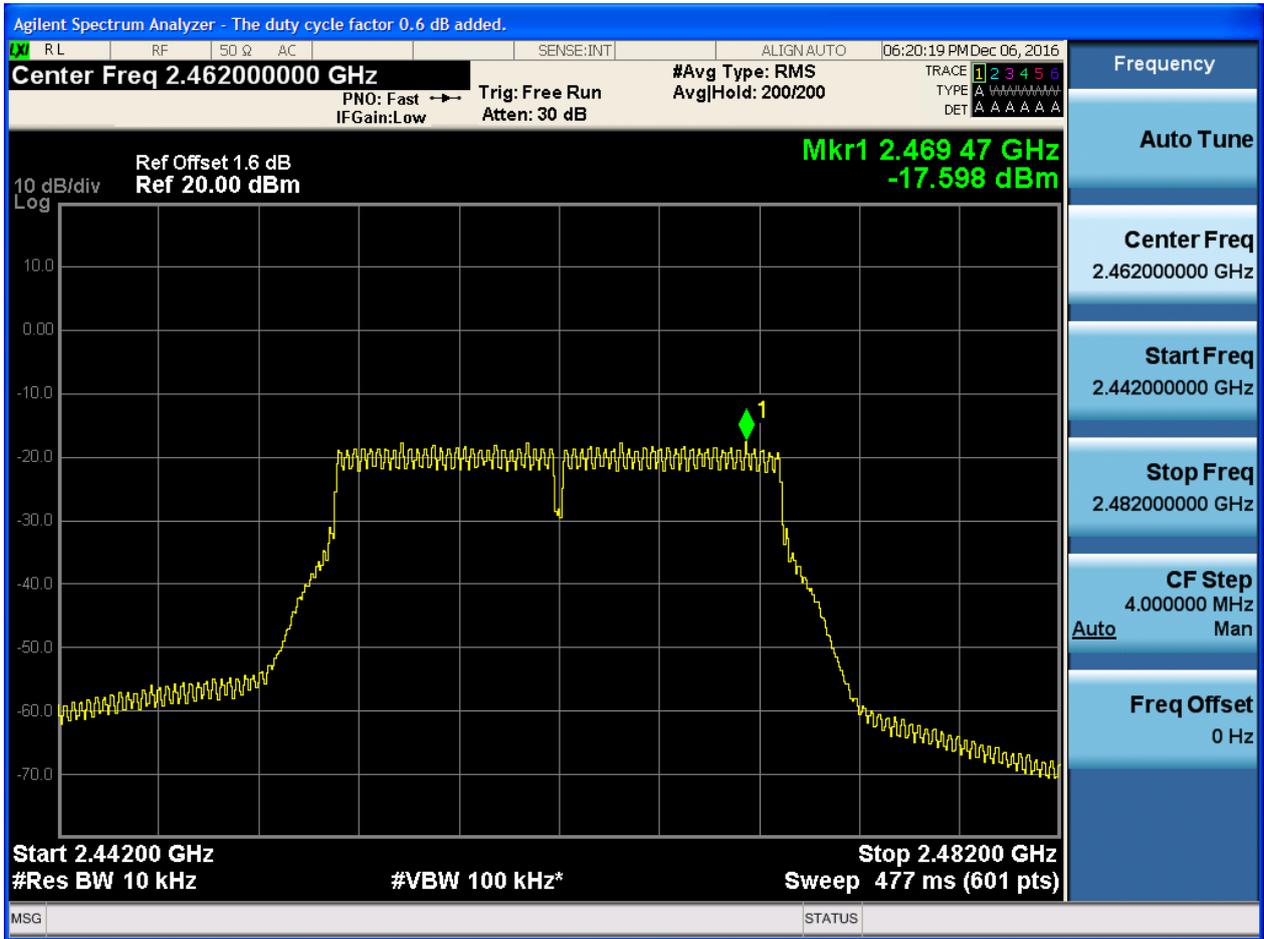


2.22 11N20m_M@Ant 1





2.23 11N20m_H@Ant 2





2.25 11G CDD L@Ant 1

