



# 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	2432	Ant 1	8.13	pass
11B	L	2432	Ant 2	8.10	pass
11B	M	2447	Ant 1	8.58	pass
11B	M	2447	Ant 2	8.12	pass
11B	H	2462	Ant 1	8.11	pass
11B	H	2462	Ant 2	8.11	pass
11G	L	2432	Ant 1	16.48	pass
11G	L	2432	Ant 2	16.44	pass
11G	M	2447	Ant 1	16.45	pass
11G	M	2447	Ant 2	16.52	pass
11G	H	2462	Ant 1	16.47	pass
11G	H	2462	Ant 2	16.48	pass
11N20	L	2432	Ant 1	17.74	pass
11N20	L	2432	Ant 2	17.75	pass
11N20	M	2447	Ant 1	17.80	pass
11N20	M	2447	Ant 2	17.74	pass
11N20	H	2462	Ant 1	17.78	pass
11N20	H	2462	Ant 2	17.76	pass
11N20m	L	2432	Ant 1	17.76	pass
11N20m	L	2432	Ant 2	17.76	pass
11N20m	M	2447	Ant 1	17.75	pass
11N20m	M	2447	Ant 2	17.72	pass
11N20m	H	2462	Ant 1	17.73	pass
11N20m	H	2462	Ant 2	17.76	pass
11N40	L	2442	Ant 1	36.45	pass
11N40	L	2442	Ant 2	36.52	pass
11N40	M	2447	Ant 1	36.41	pass
11N40	M	2447	Ant 2	36.35	pass



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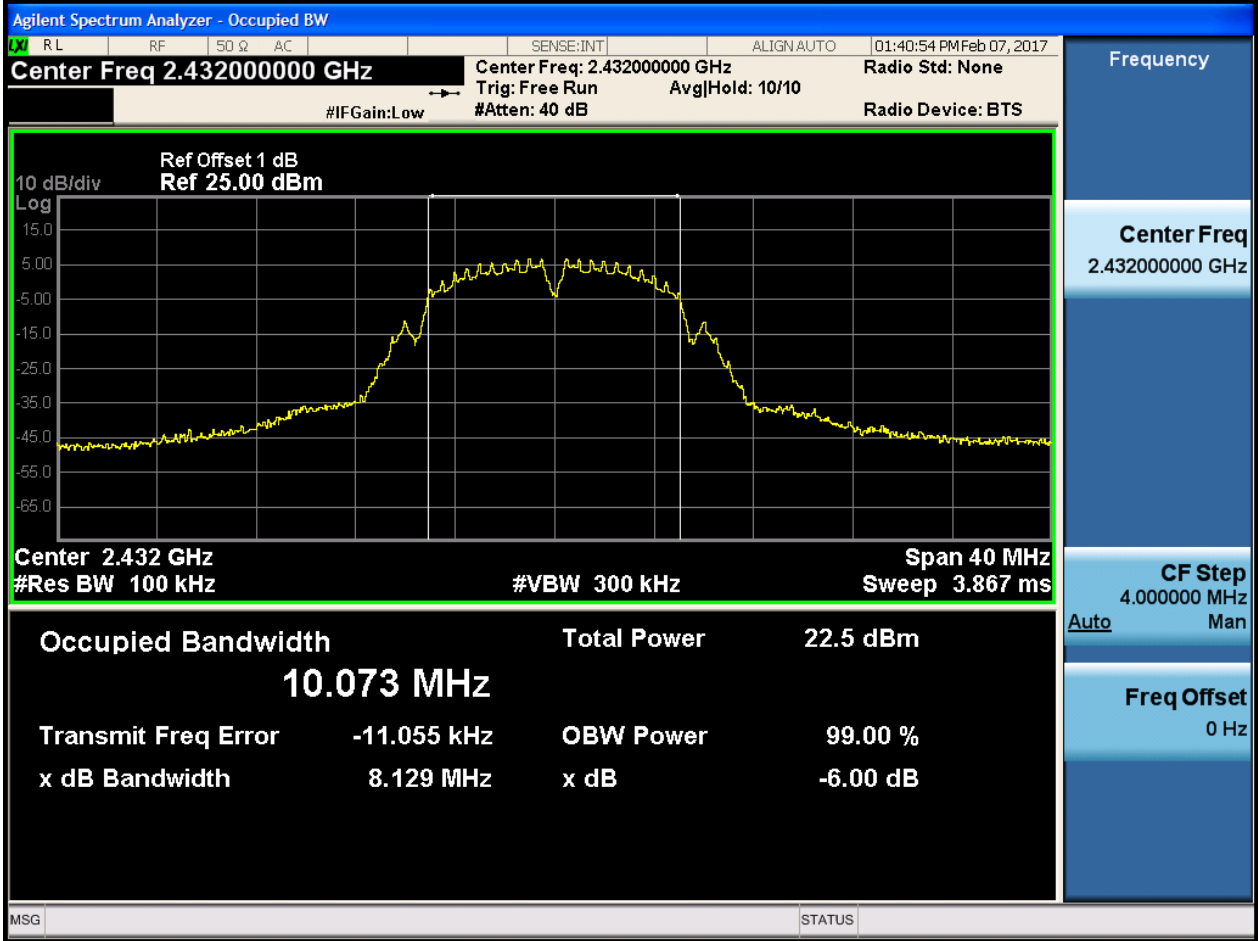
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Test Mode	Test Channel	Frequency[MHz]	Ant	DTS6dBBW[MHz]	Verdict
11N40	H	2452	Ant 1	36.40	pass
11N40	H	2452	Ant 2	36.37	pass
11N40m	L	2442	Ant 1	36.42	pass
11N40m	L	2442	Ant 2	36.37	pass
11N40m	M	2447	Ant 1	36.38	pass
11N40m	M	2447	Ant 2	36.16	pass
11N40m	H	2452	Ant 1	36.02	pass
11N40m	H	2452	Ant 2	36.30	pass



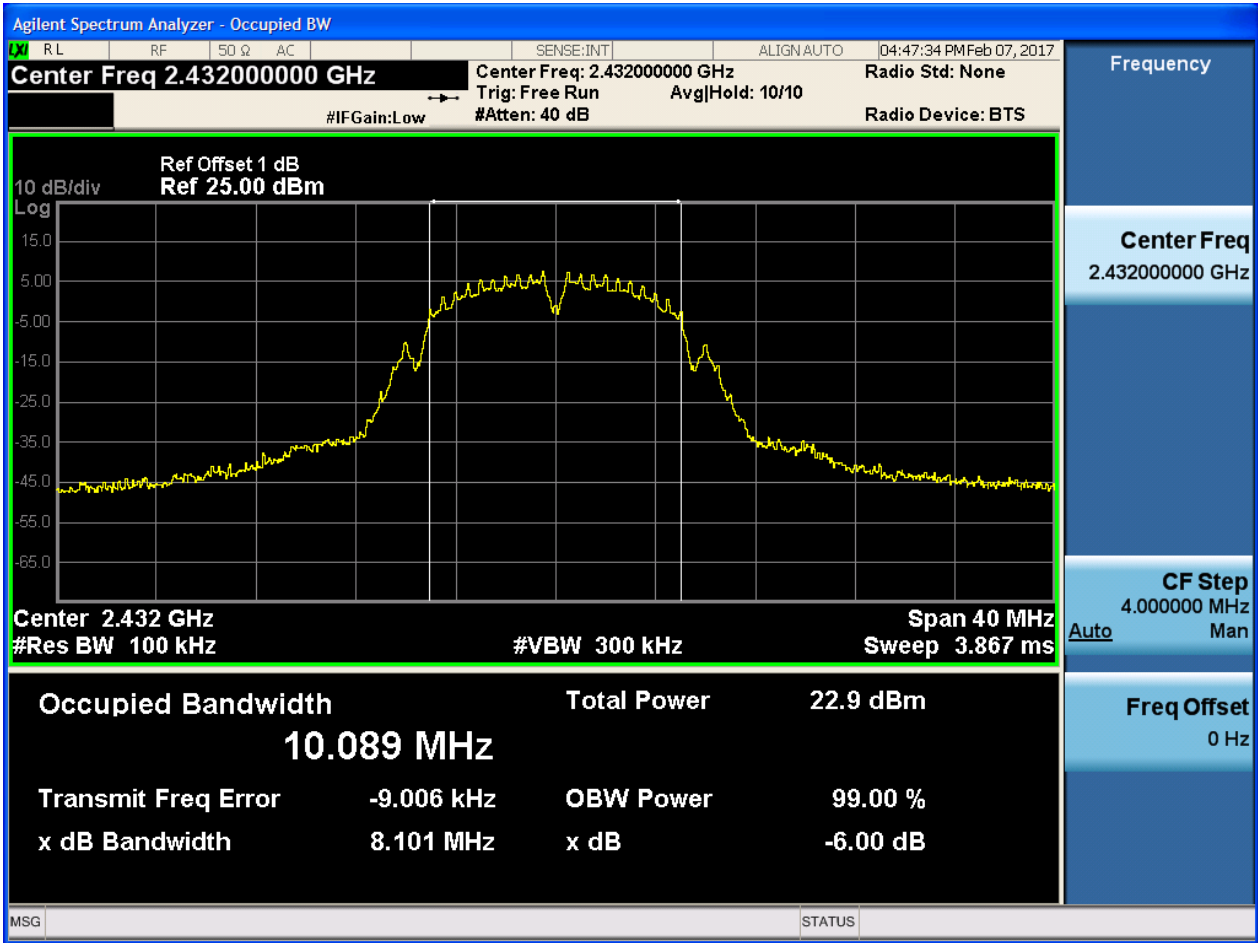
Part II - Test Plots

2.1 11B\_L@Ant 1



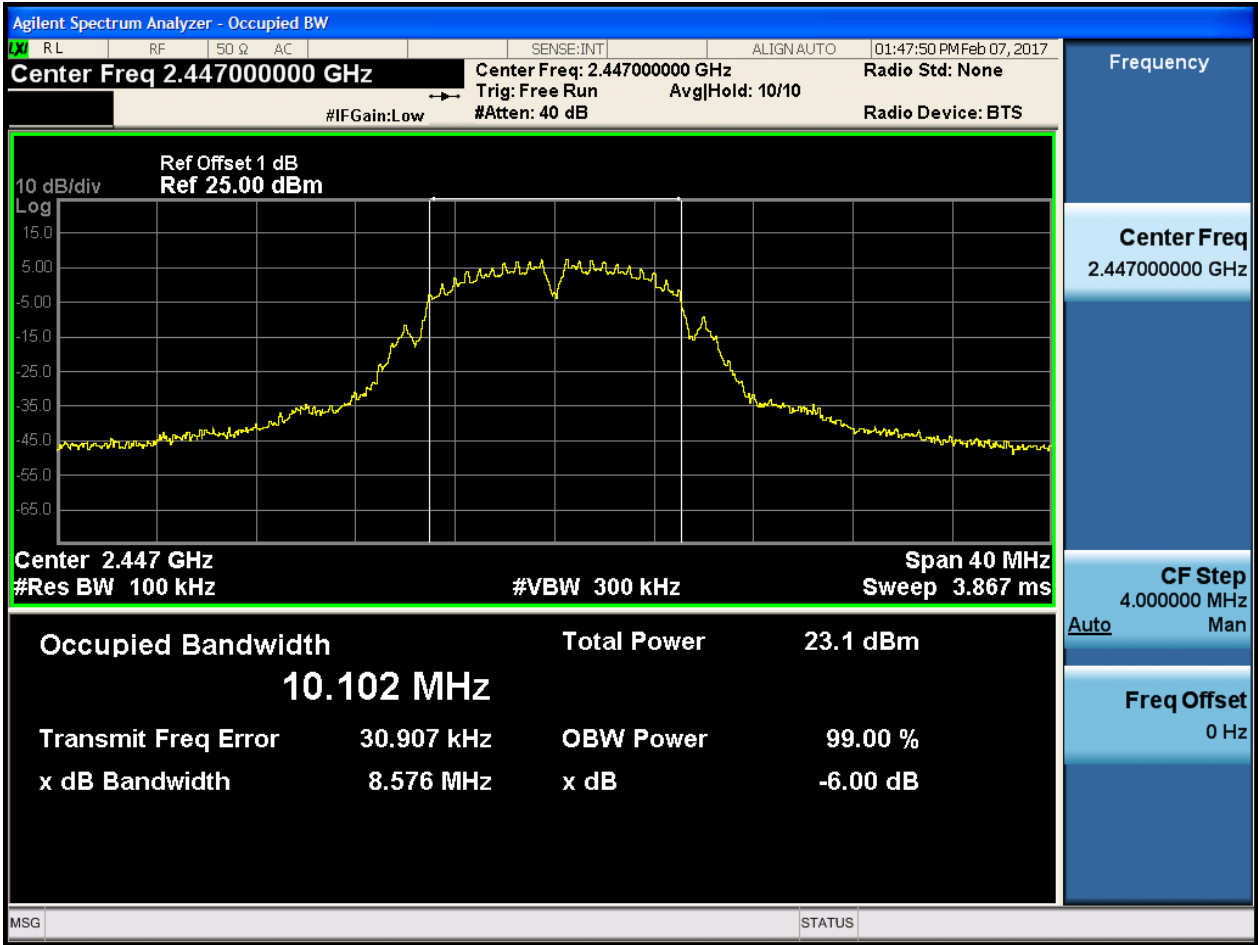


2.2 11B\_L@Ant 2



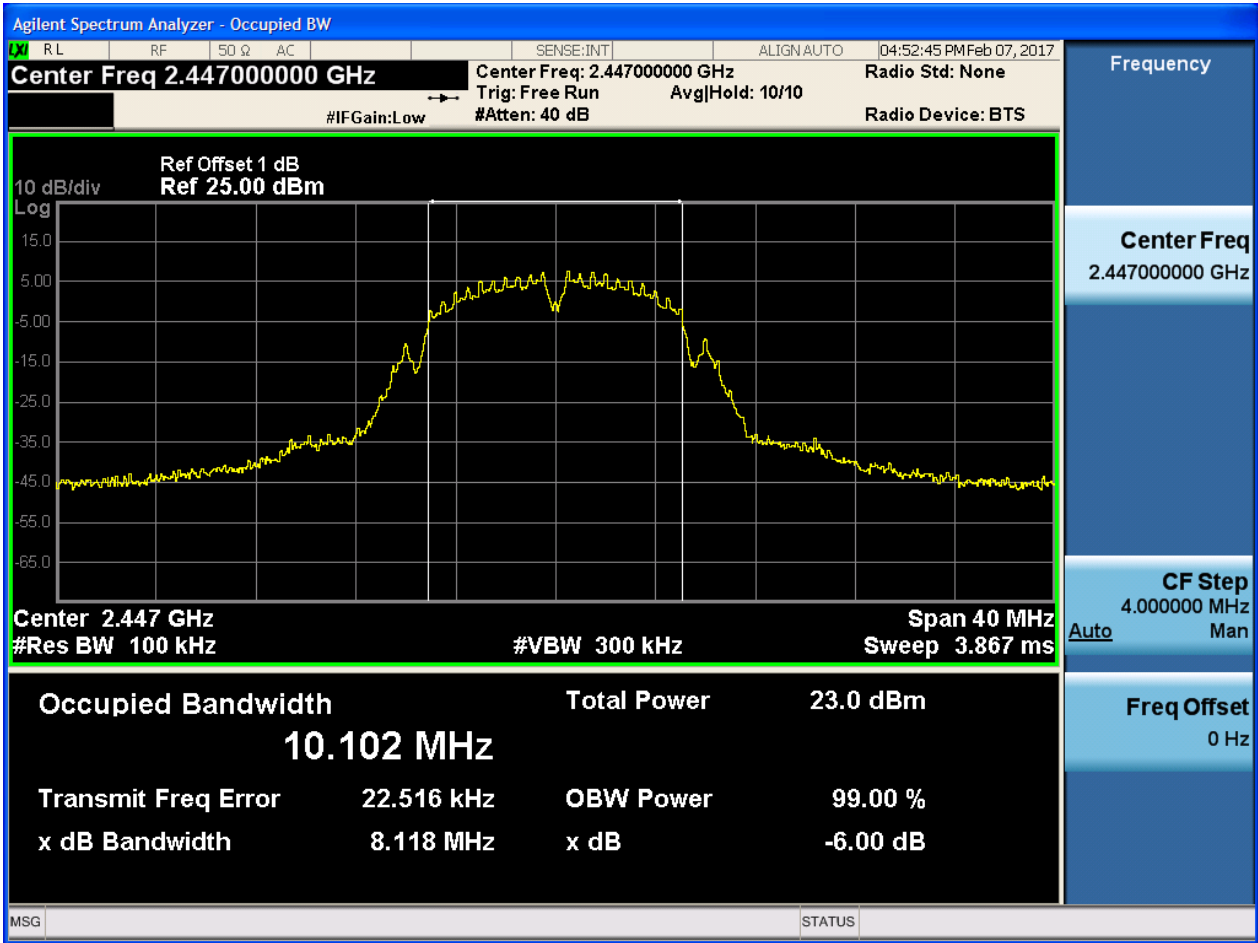


2.3 11B\_M@Ant 1



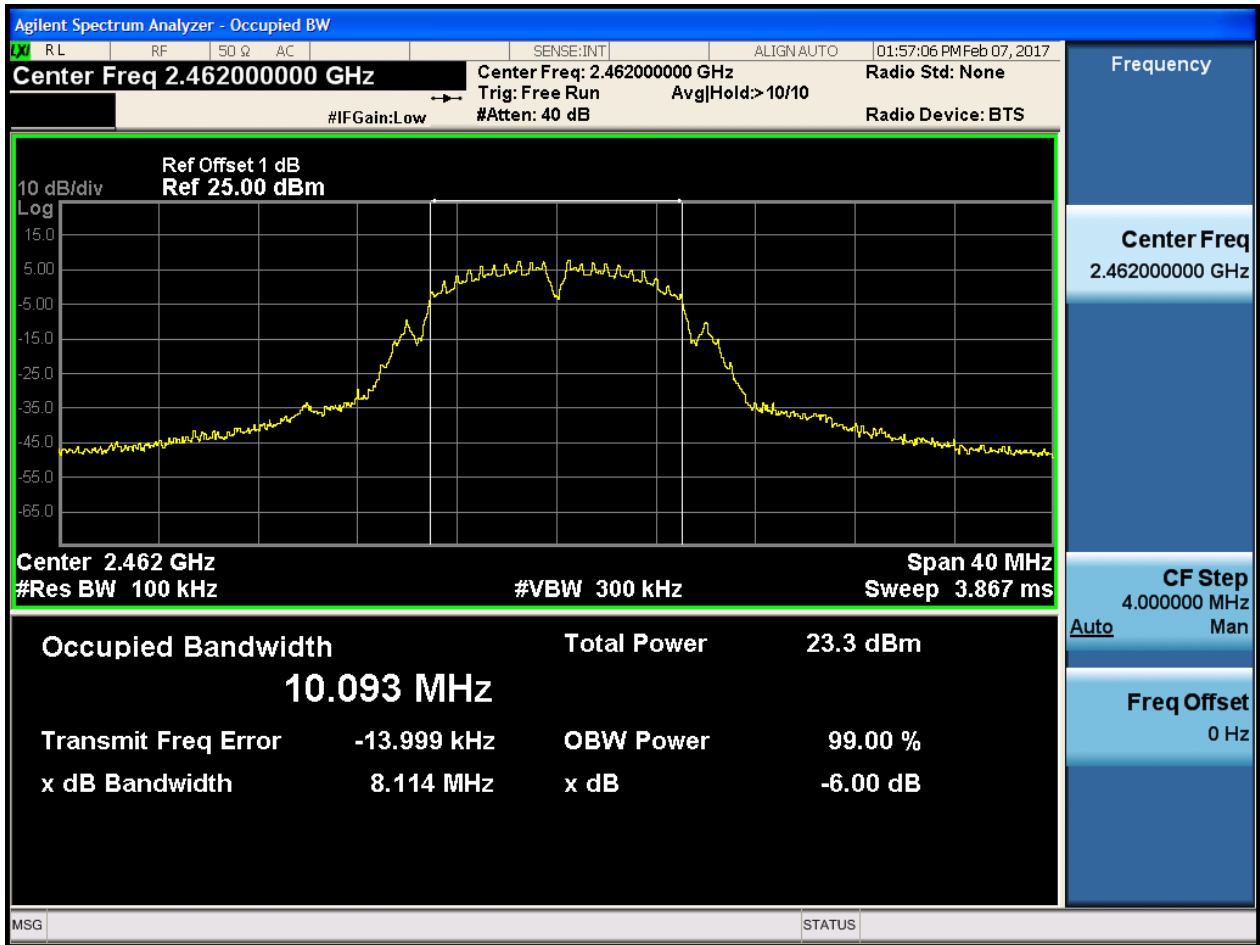


2.4 11B\_M@Ant 2





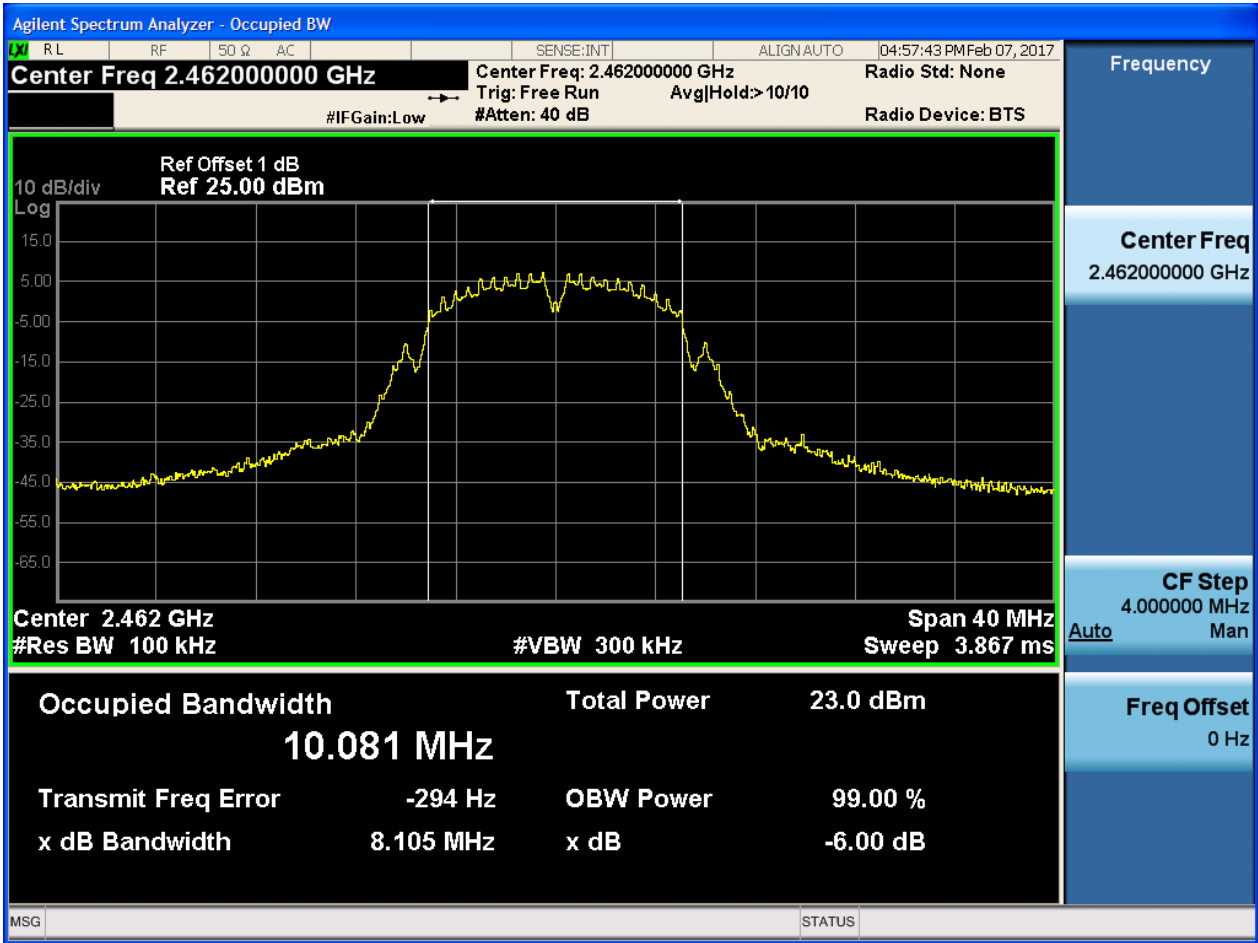
2.5 11B\_H@Ant 1





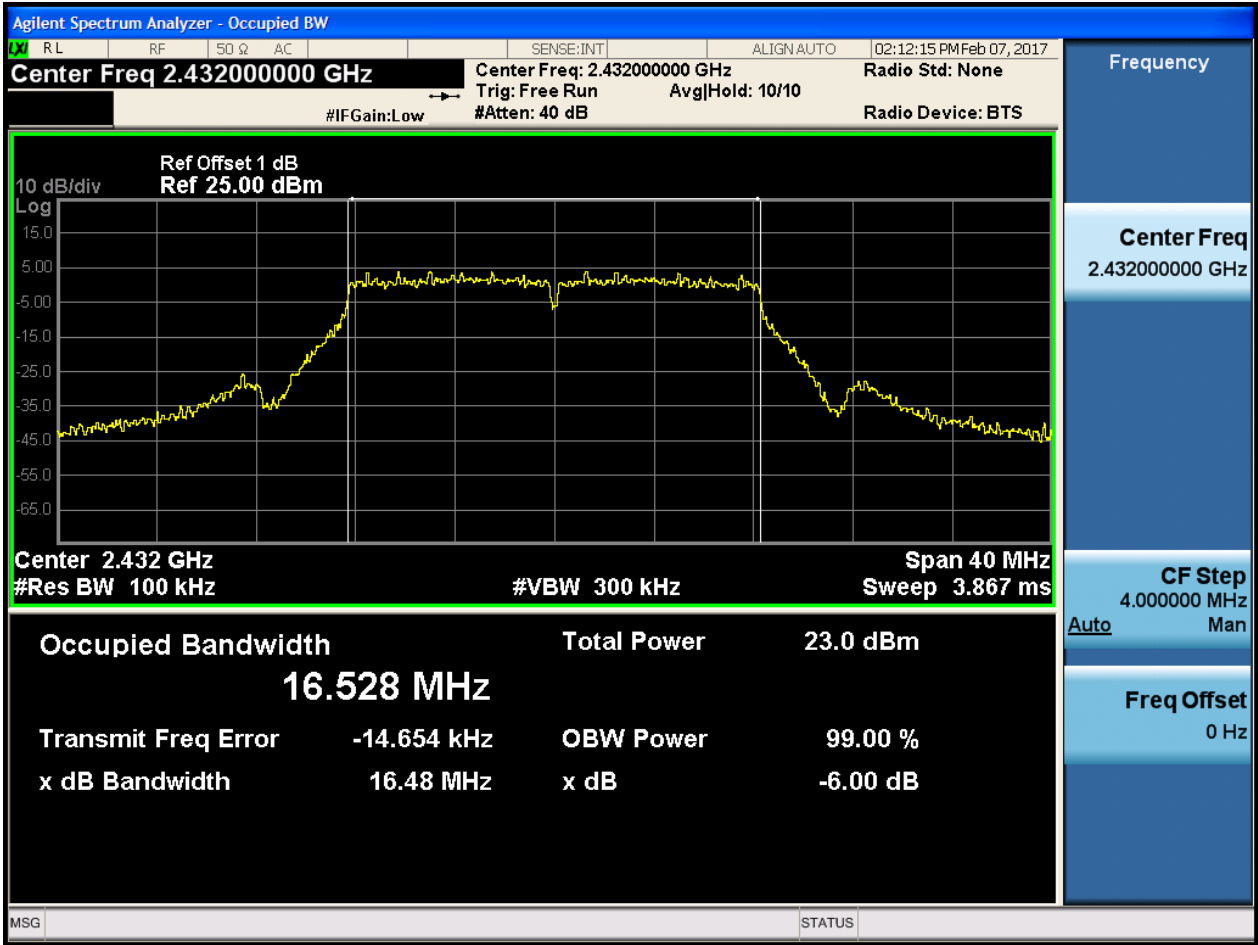


2.6 11B\_H@Ant 2



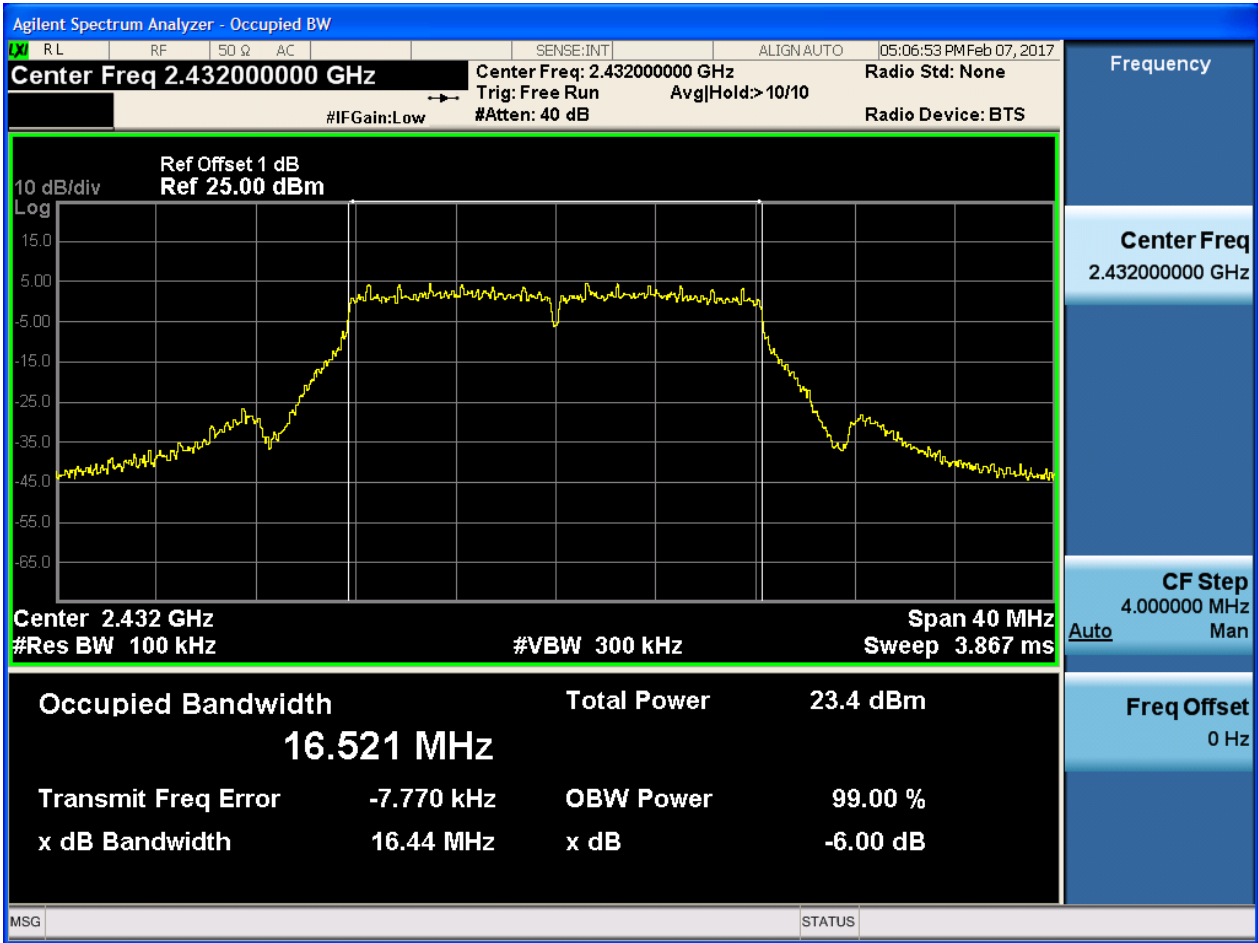


2.7 11G\_L@Ant 1



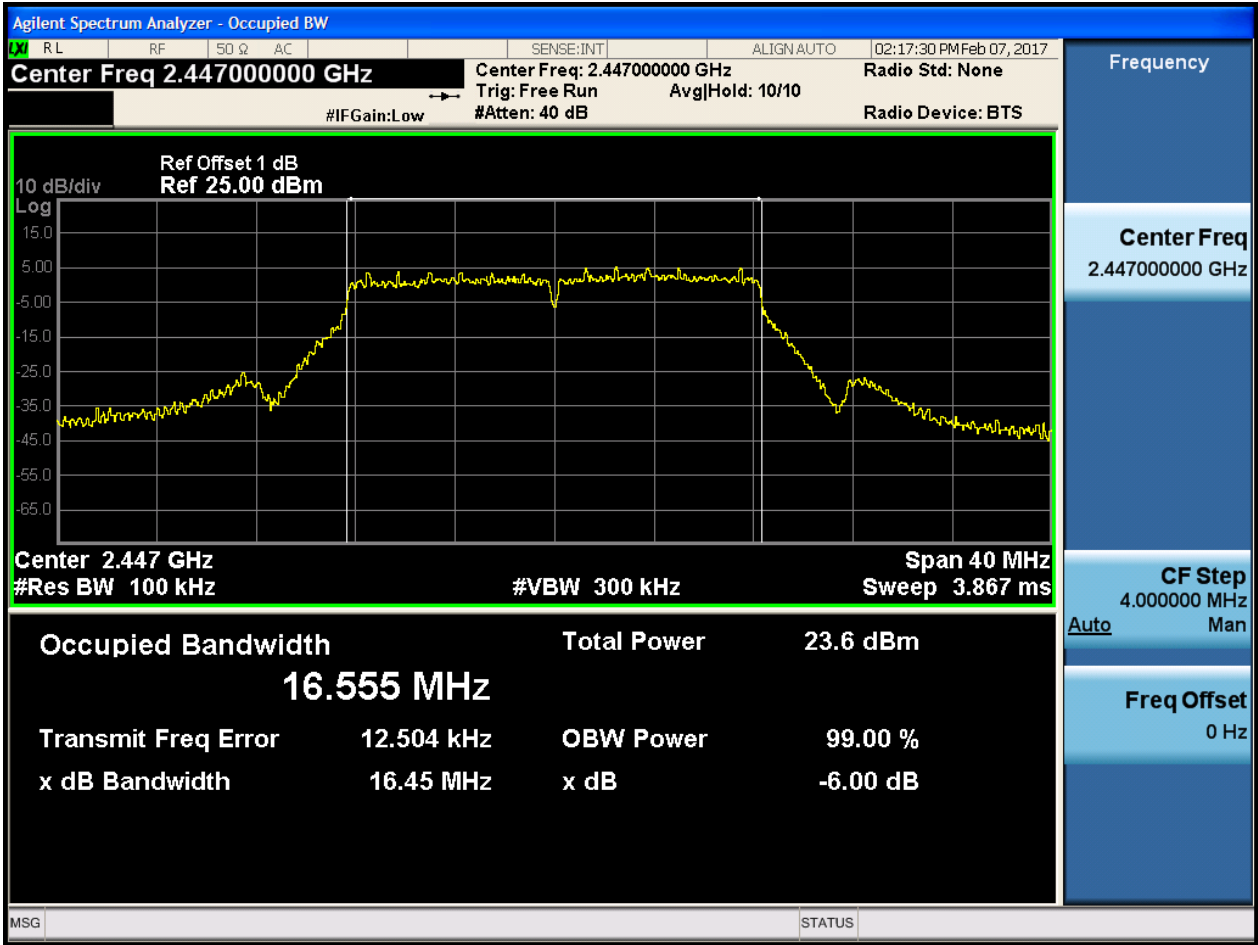


2.8 11G\_L@Ant 2



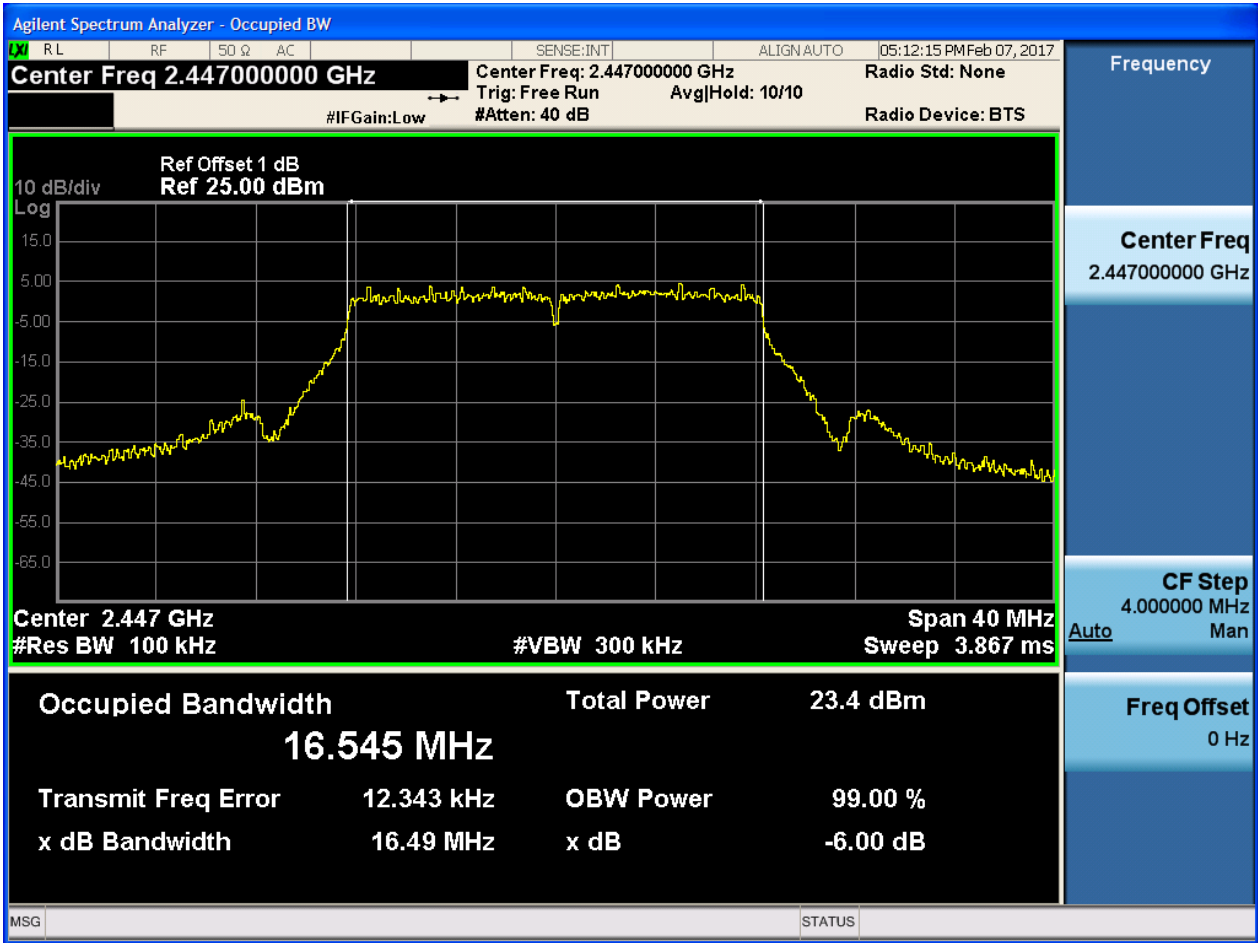


2.9 11G\_M@Ant 1



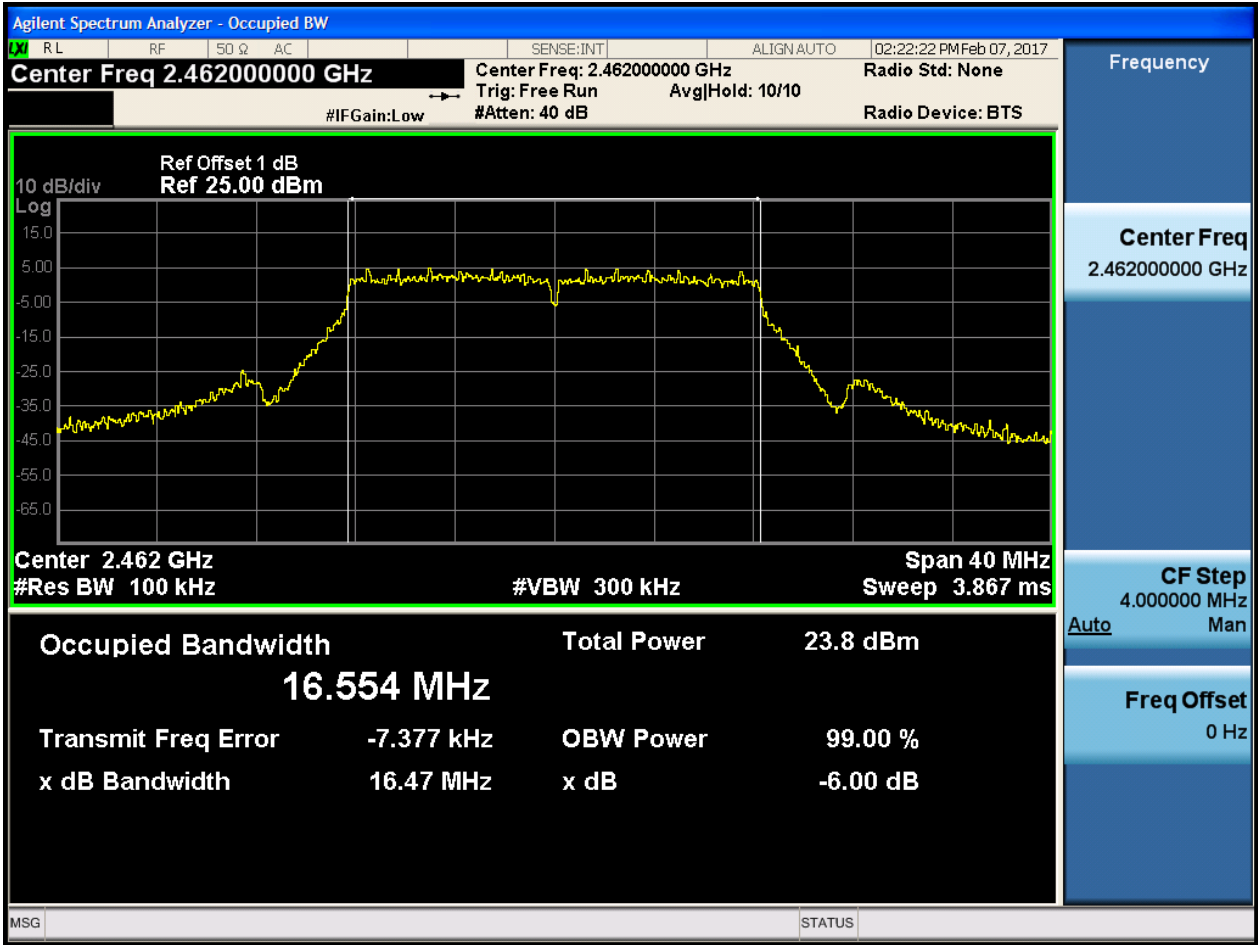


2.10 11G\_M@Ant 2



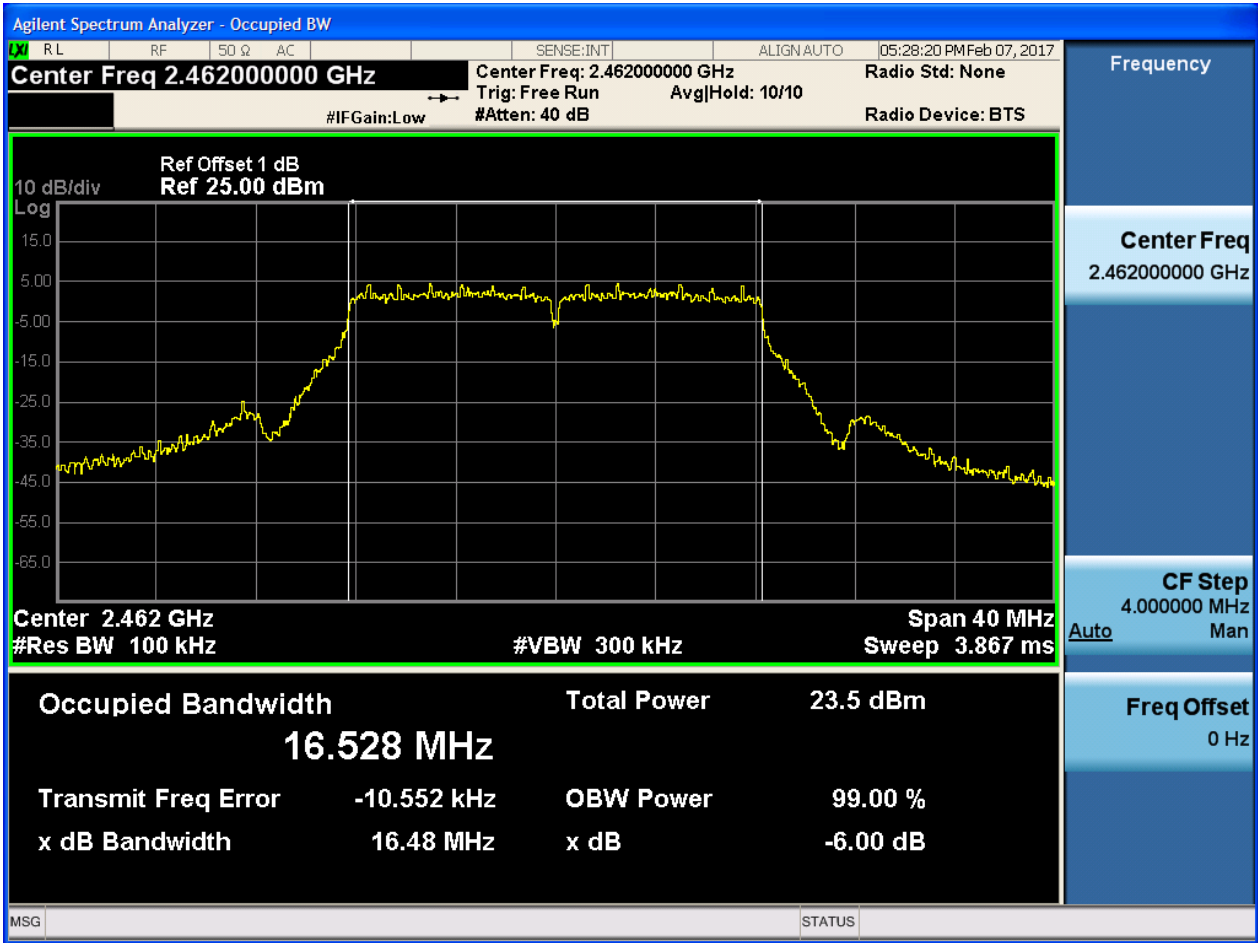


2.11 11G\_H@Ant 1



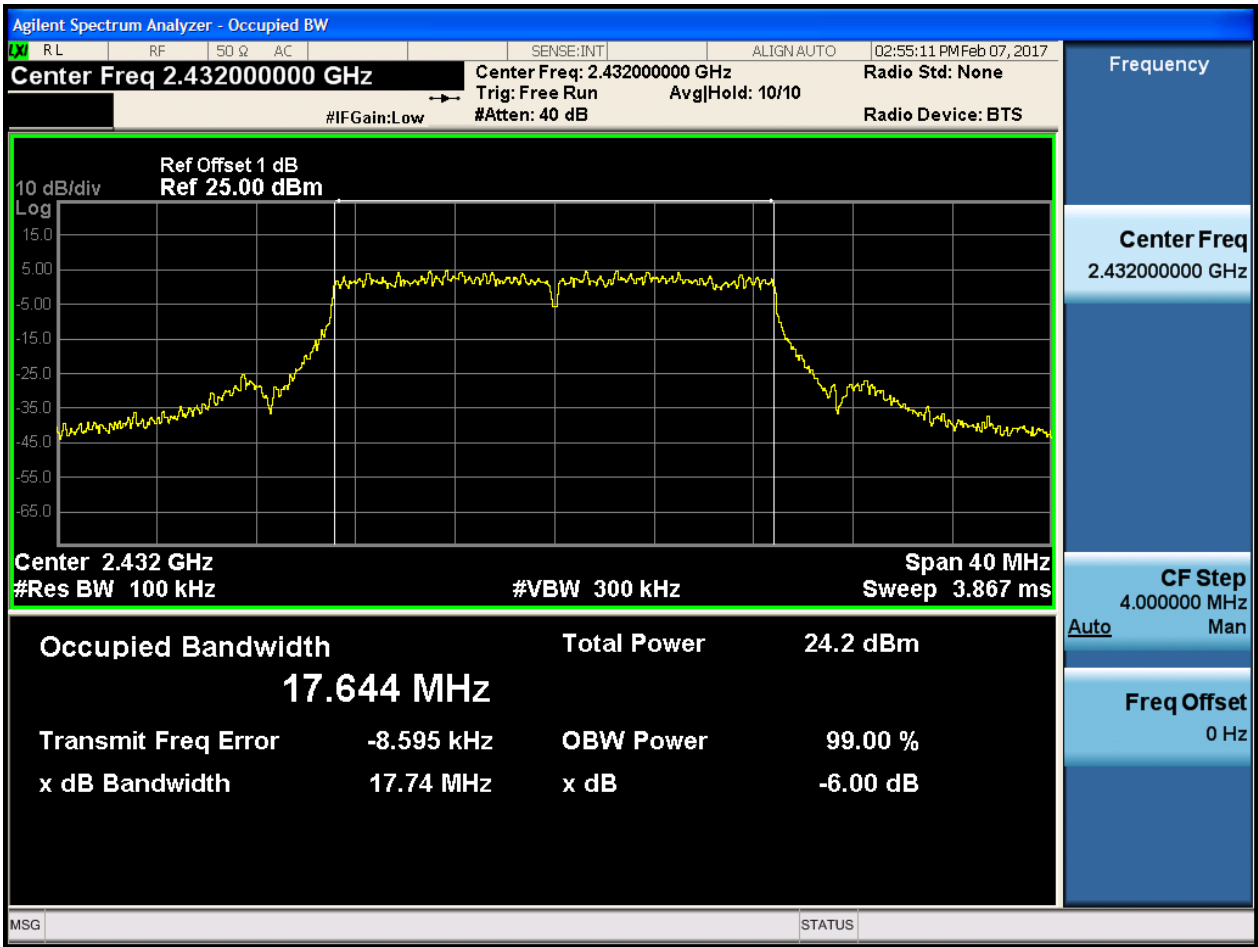


2.12 11G\_H@Ant 2





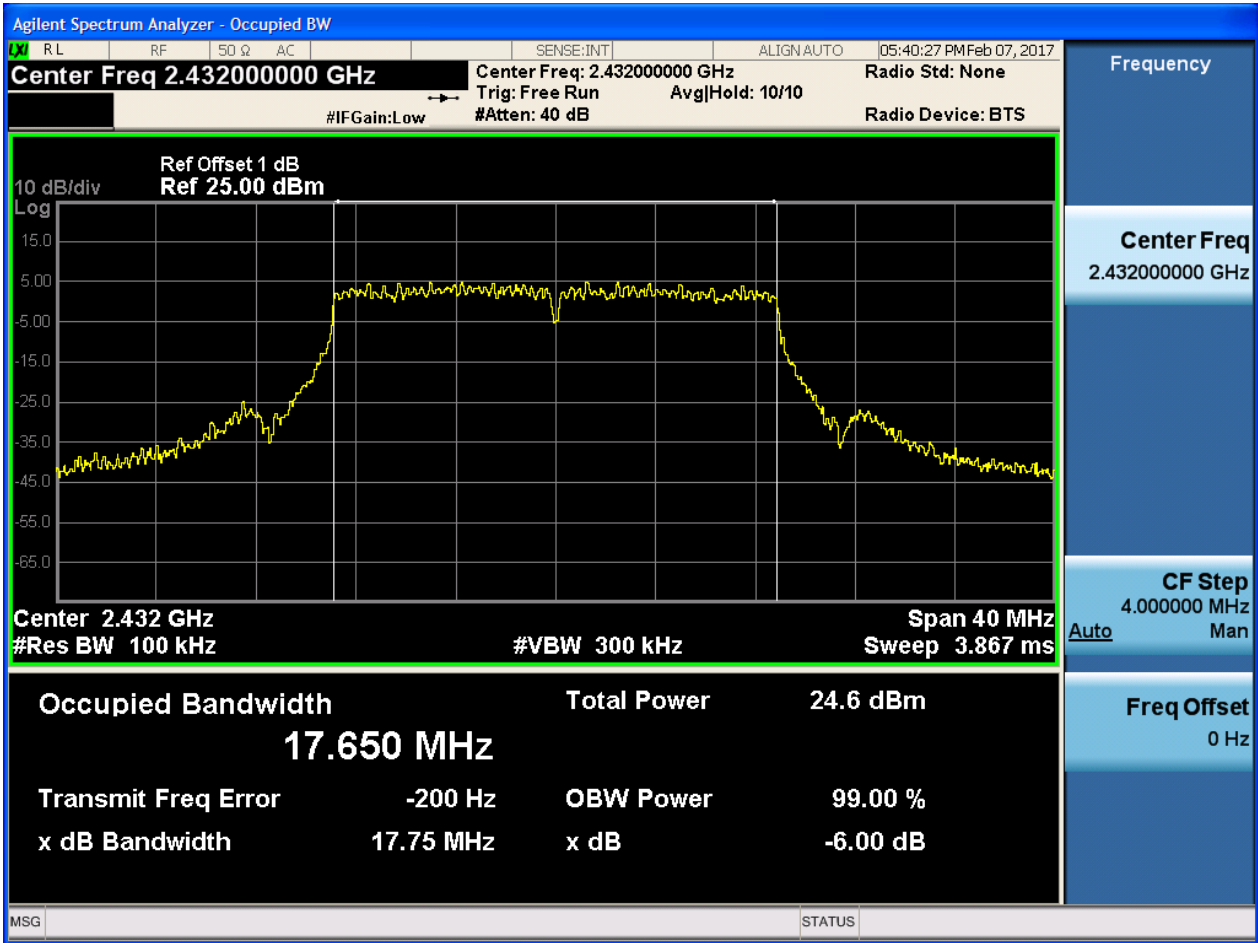
2.13 11N20\_L@Ant 1





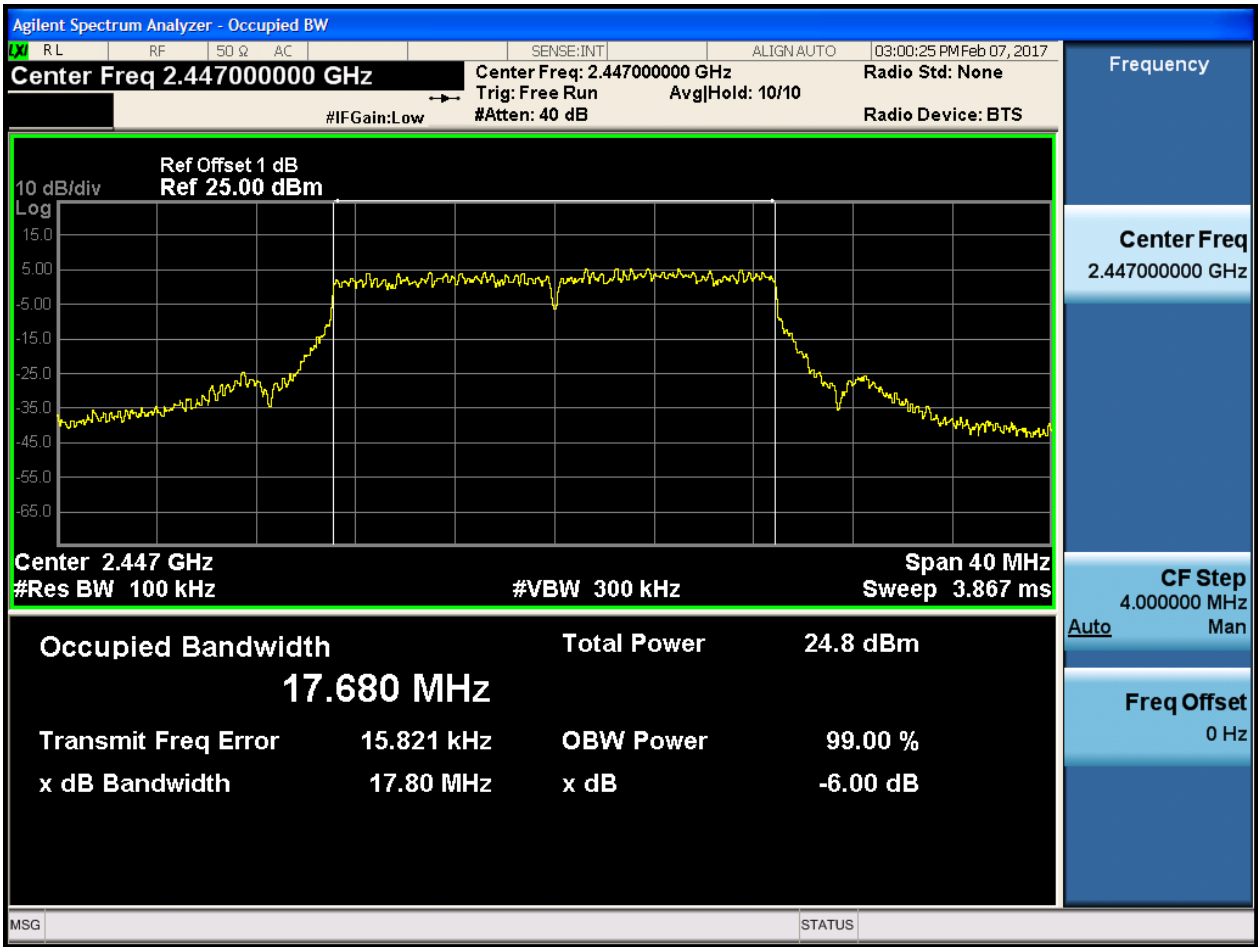


2.14 11N20\_L@Ant 2



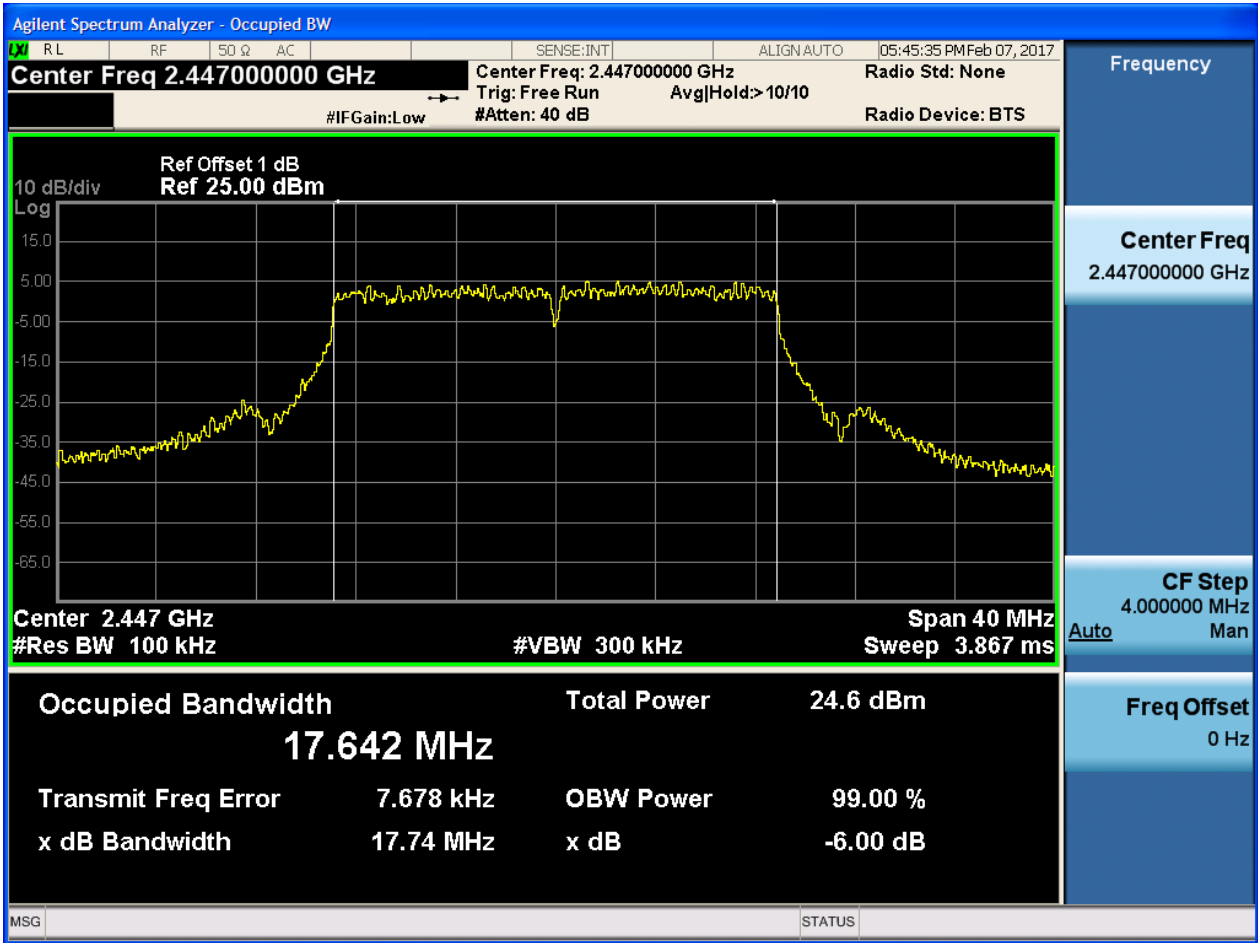


2.15 11N20\_M@Ant 1



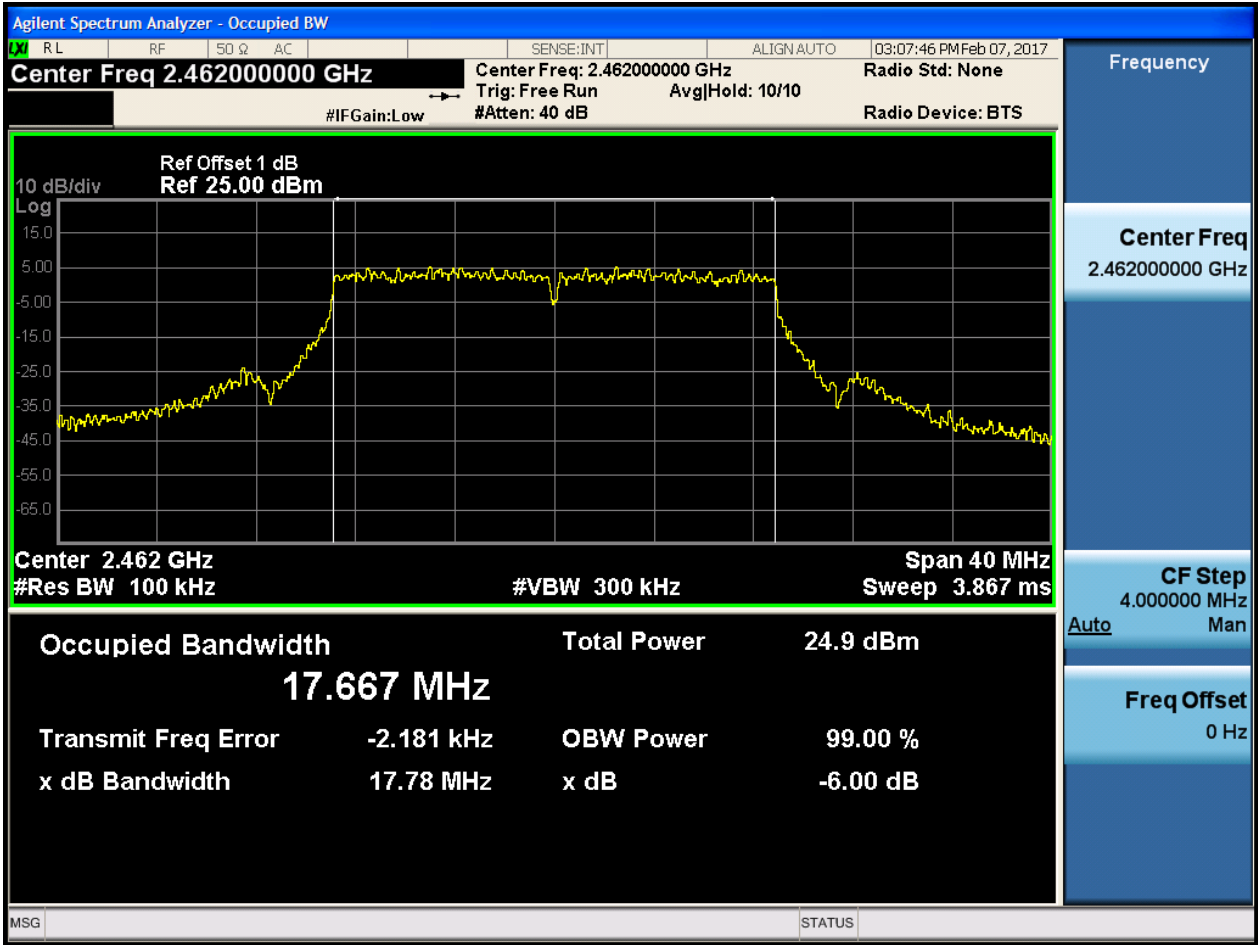


2.16 11N20\_M@Ant 2



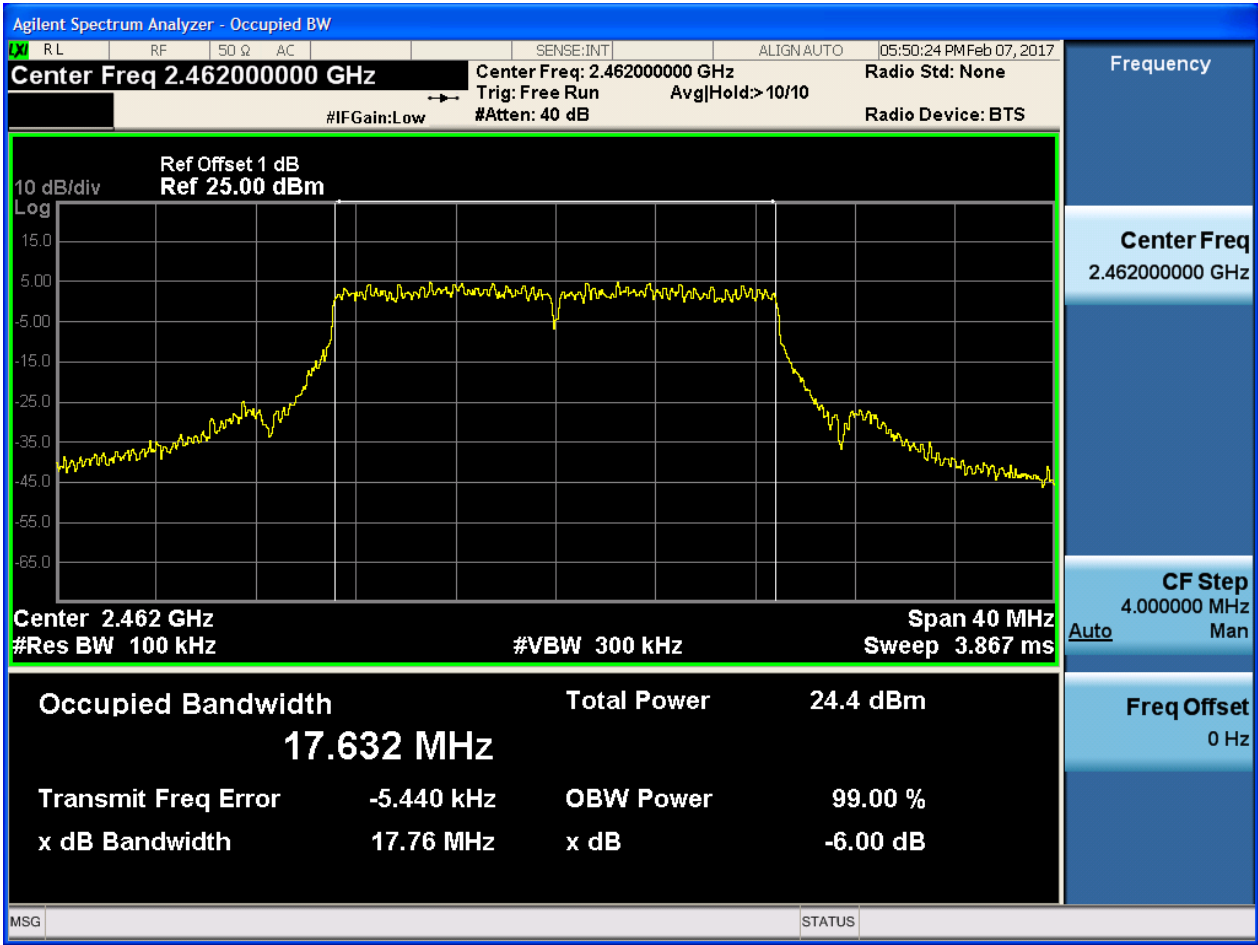


2.17 11N20\_H@Ant 1



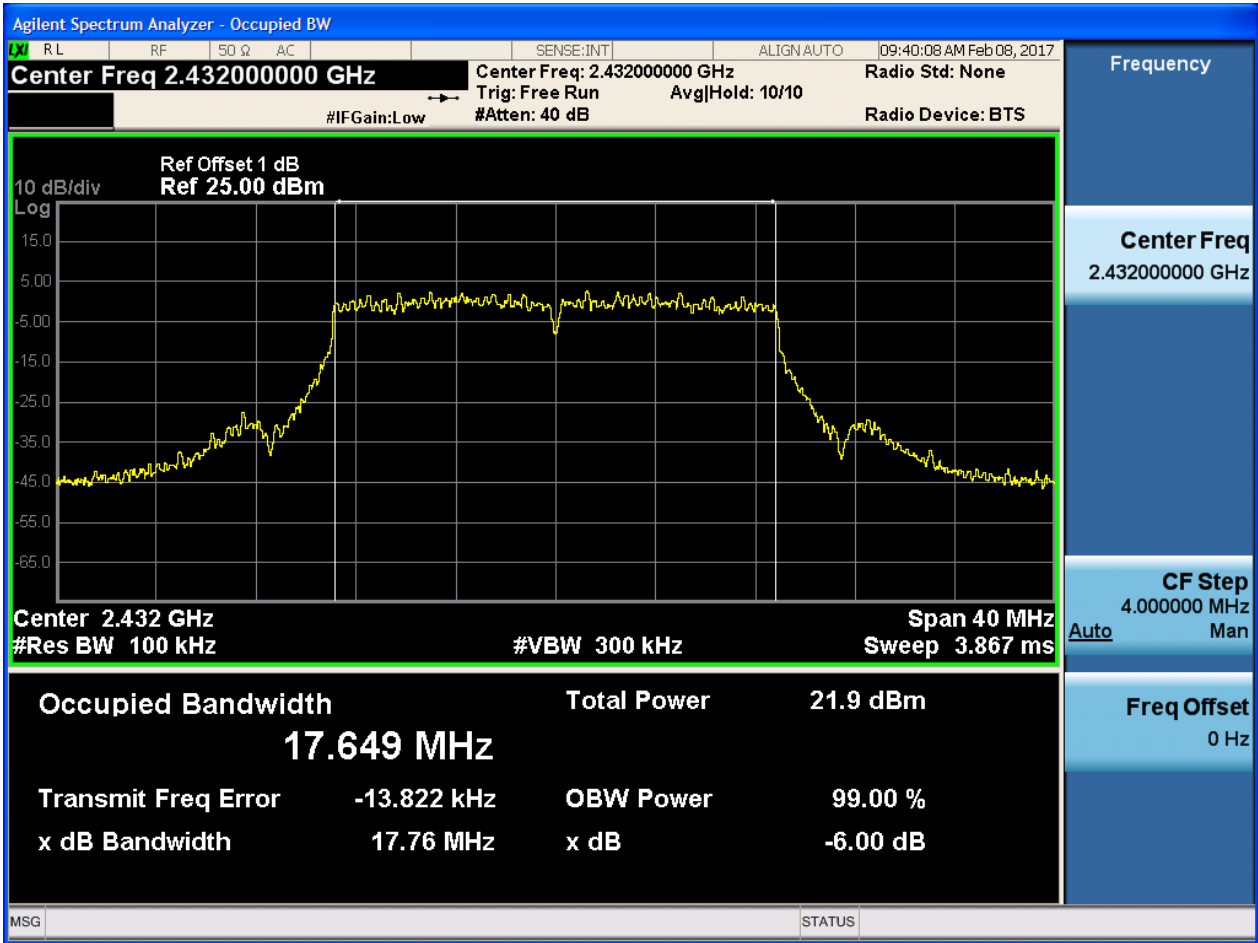


2.18 11N20\_H@Ant 2



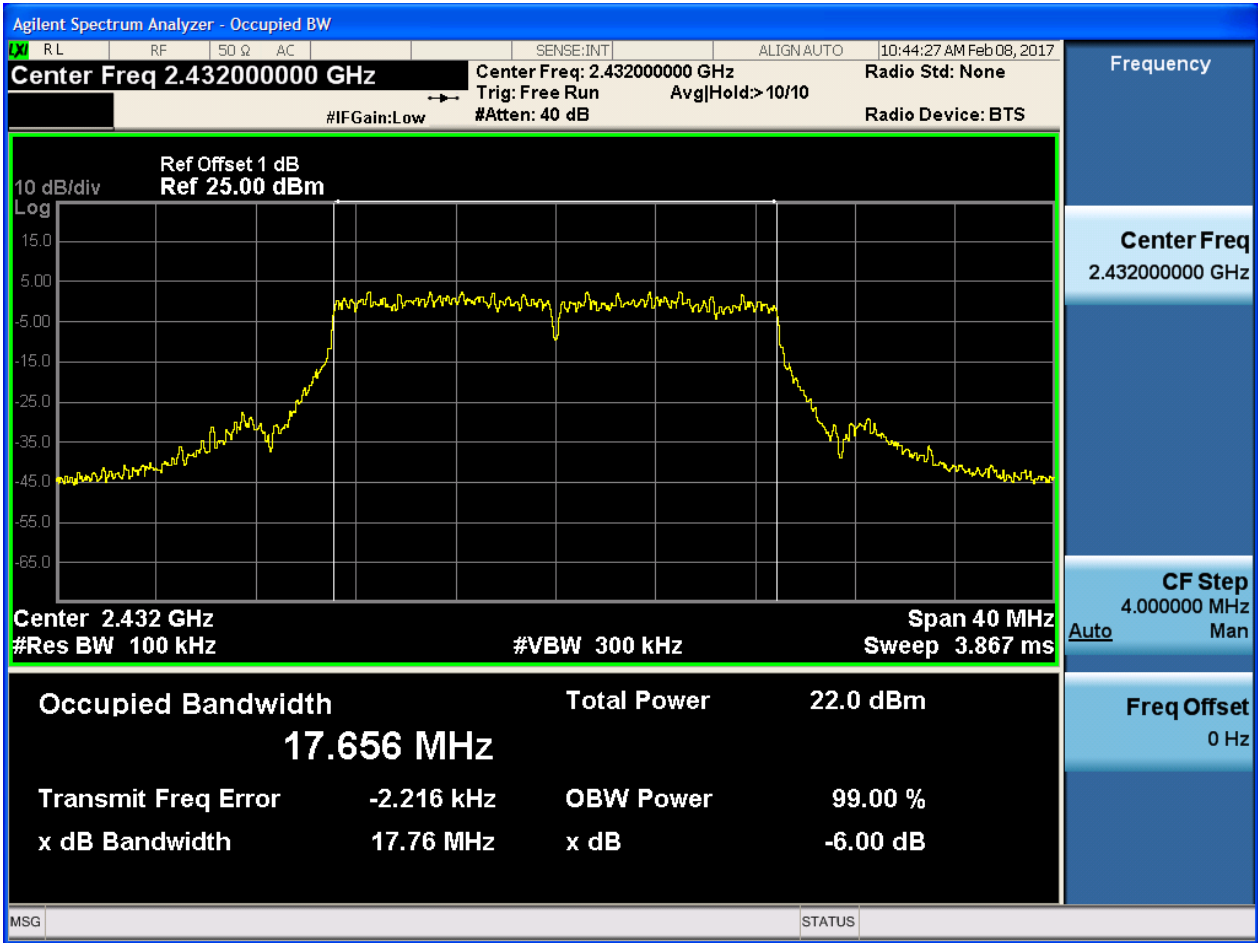


2.19 11N20m\_L@Ant 1



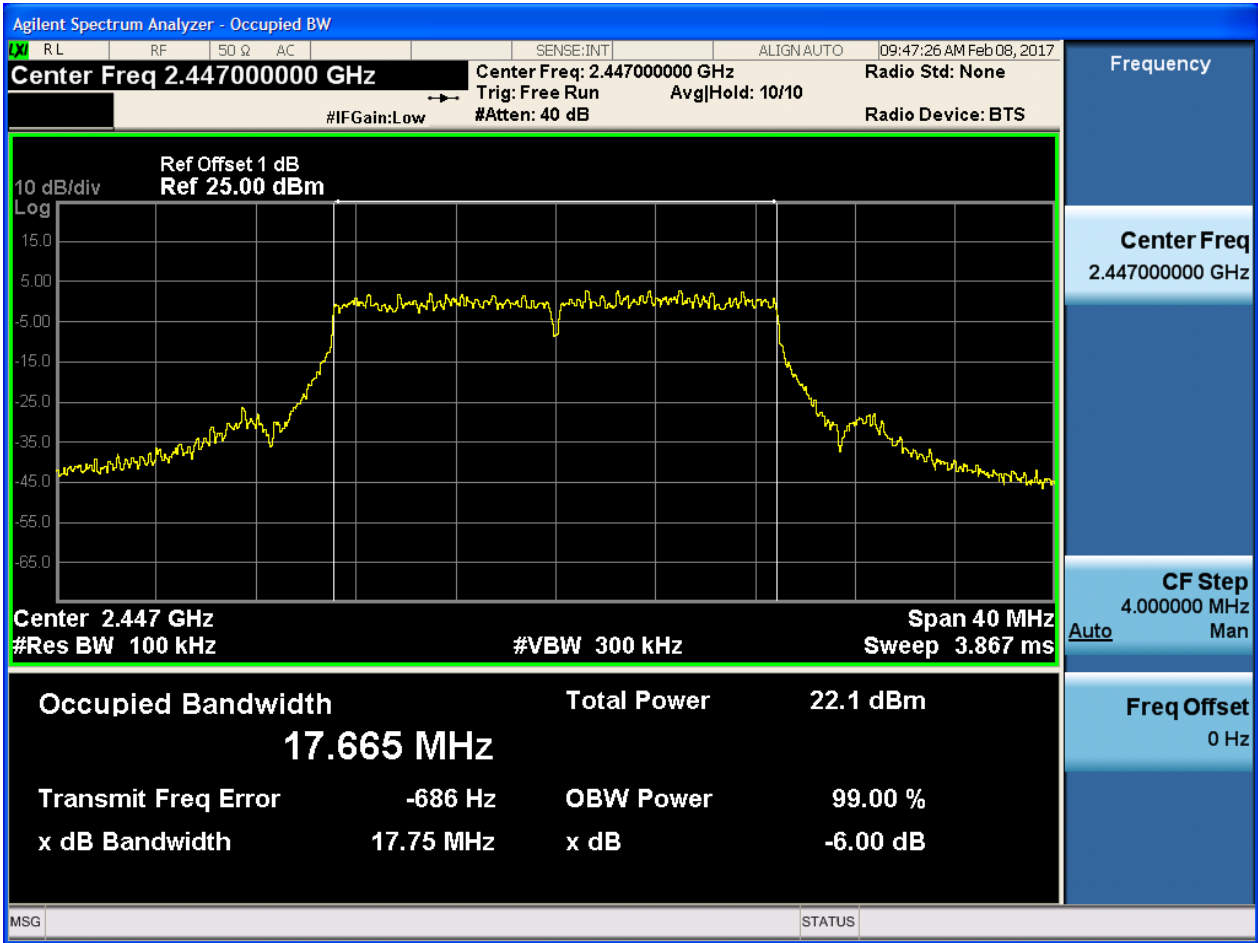


2.20 11N20m\_L@Ant 2





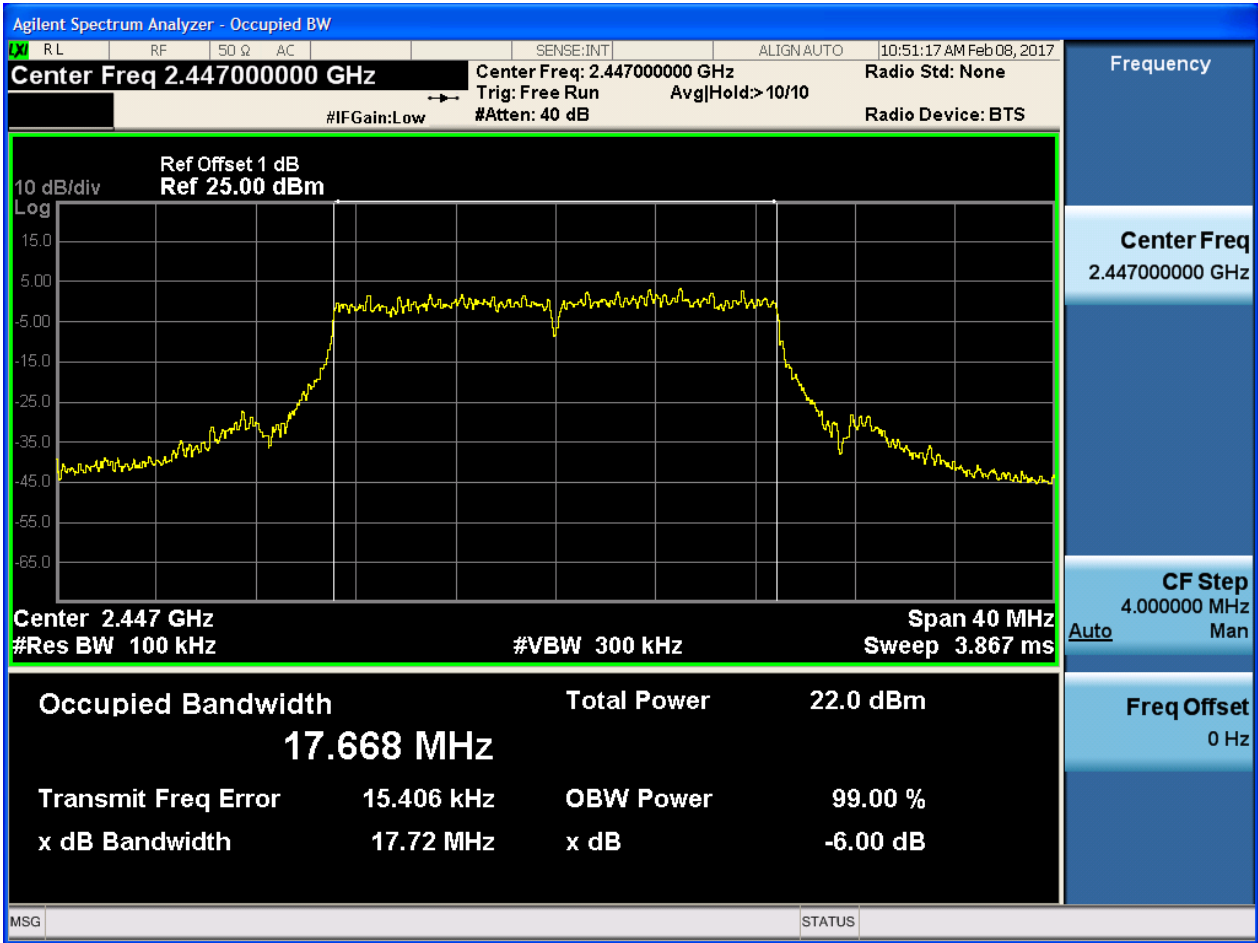
2.21 11N20m\_M@Ant 1





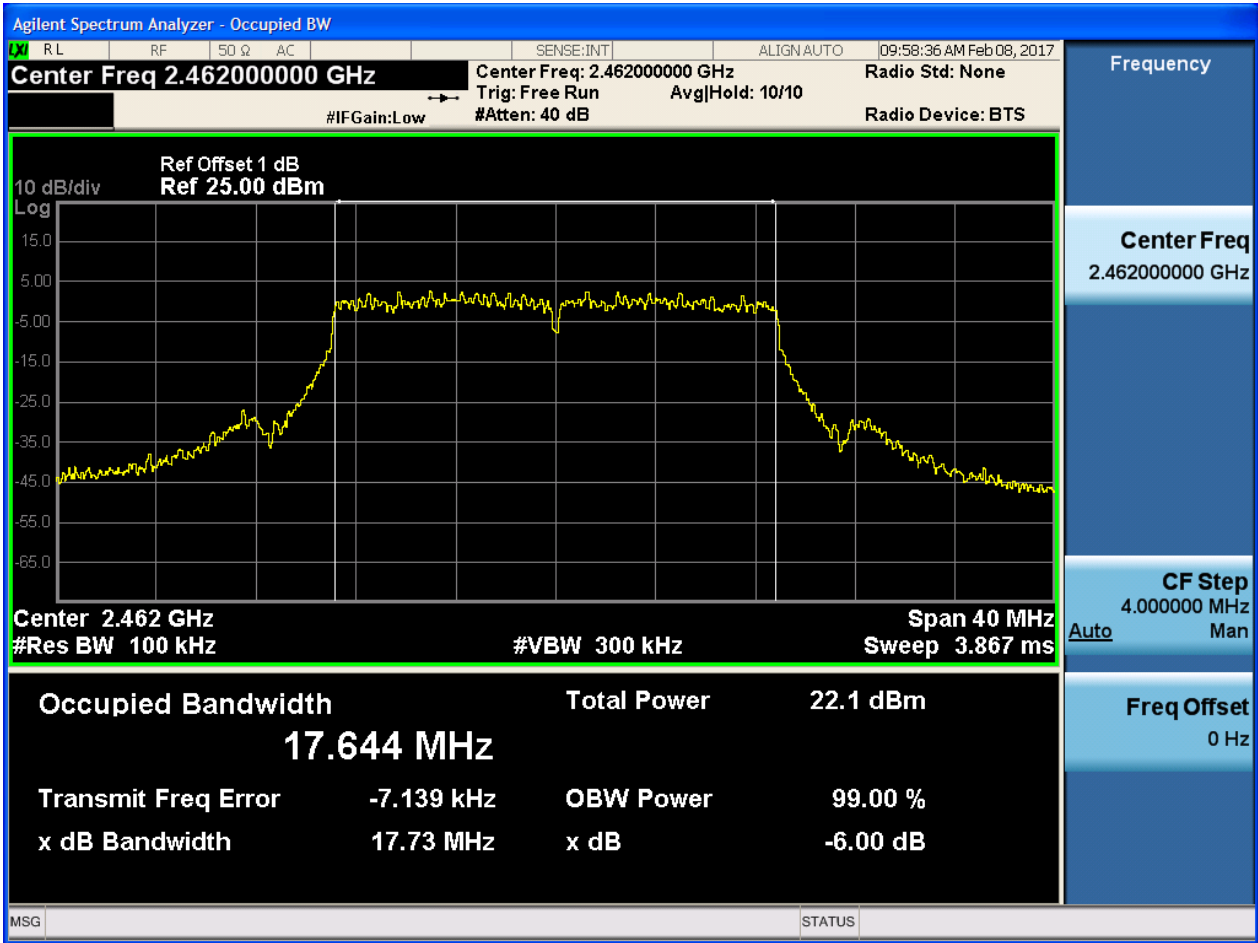


2.22 11N20m\_M@Ant 2



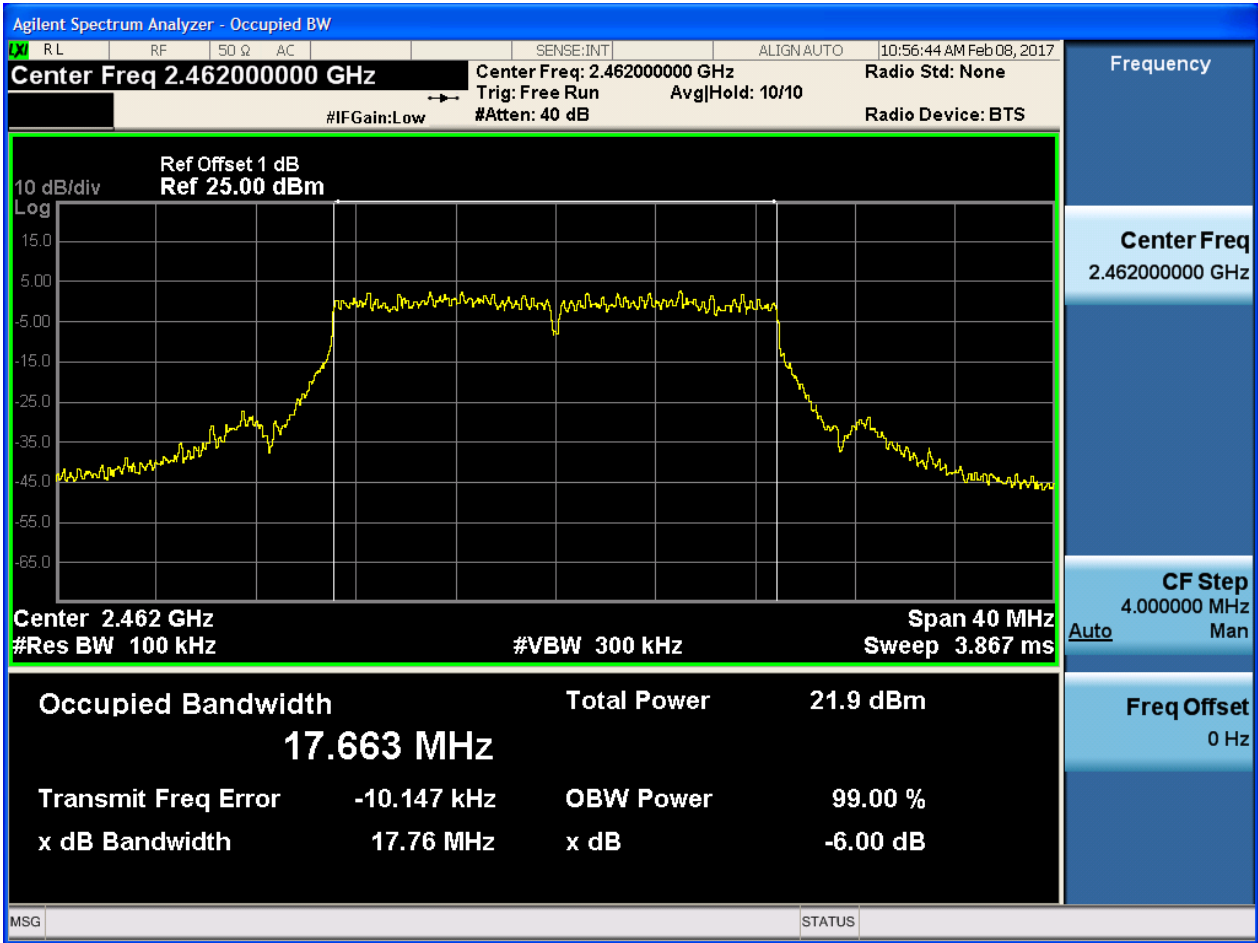


2.23 11N20m\_H@Ant 1



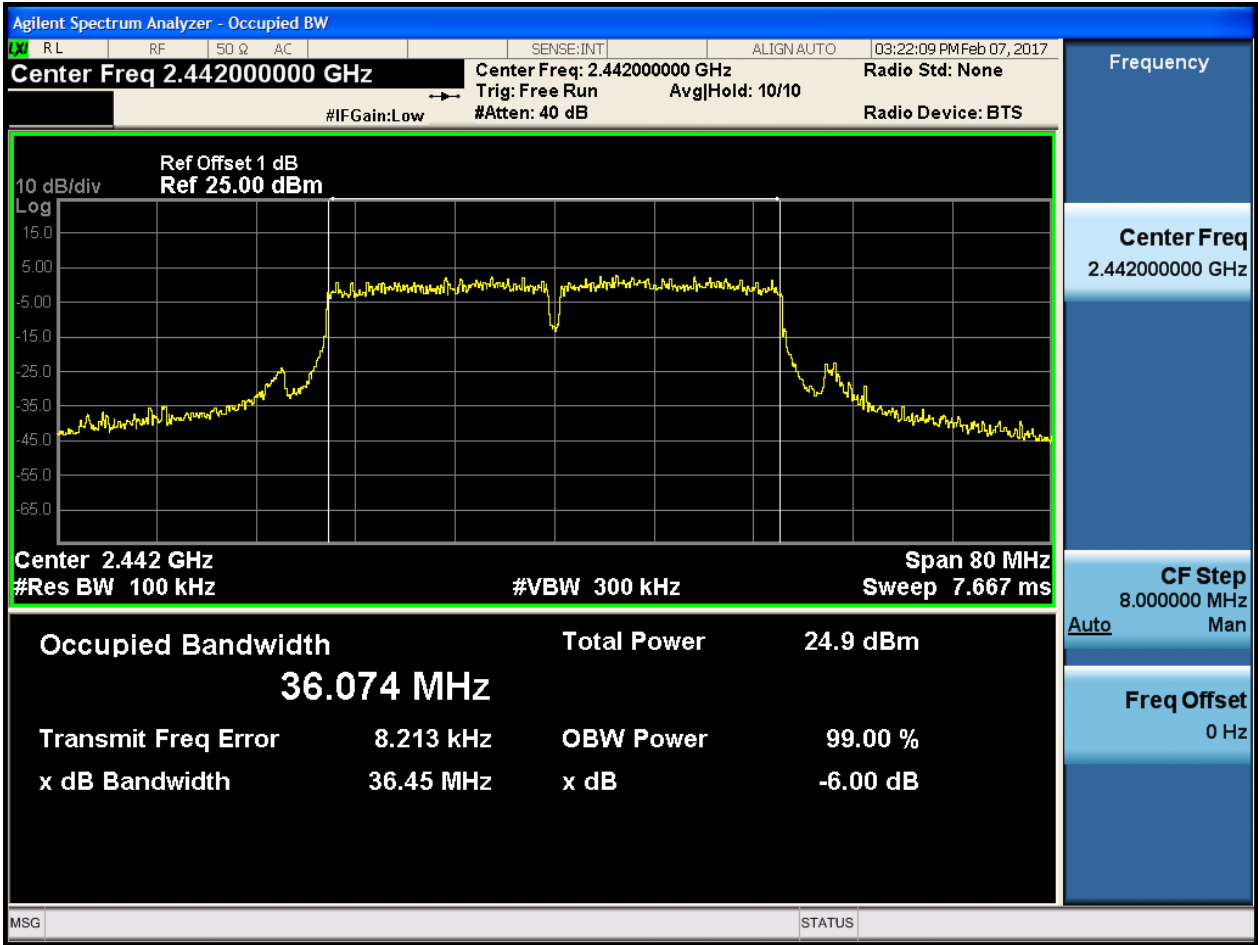


2.24 11N20m\_H@Ant 2



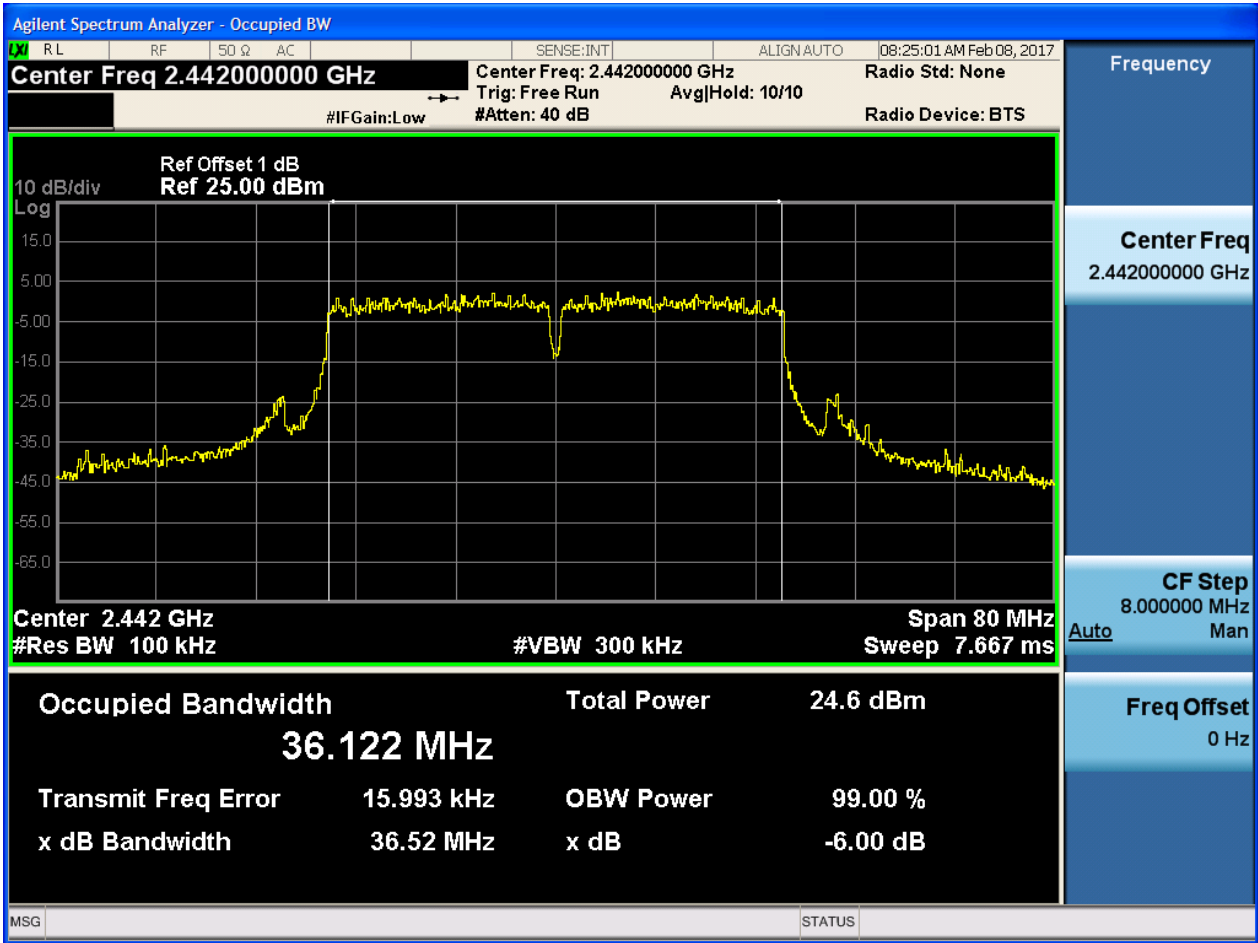


2.25 11N40\_L@Ant 1



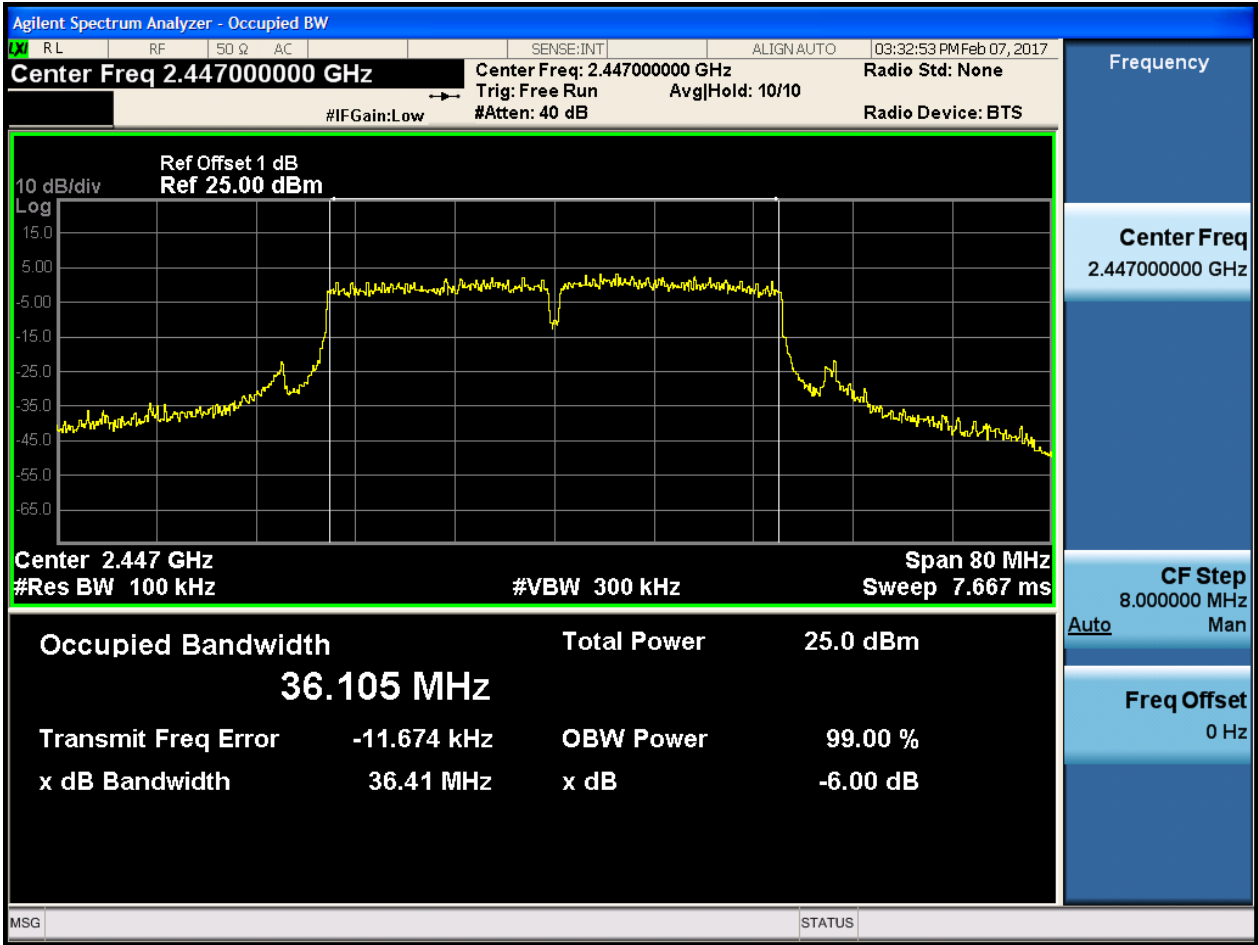


2.26 11N40\_L@Ant 2



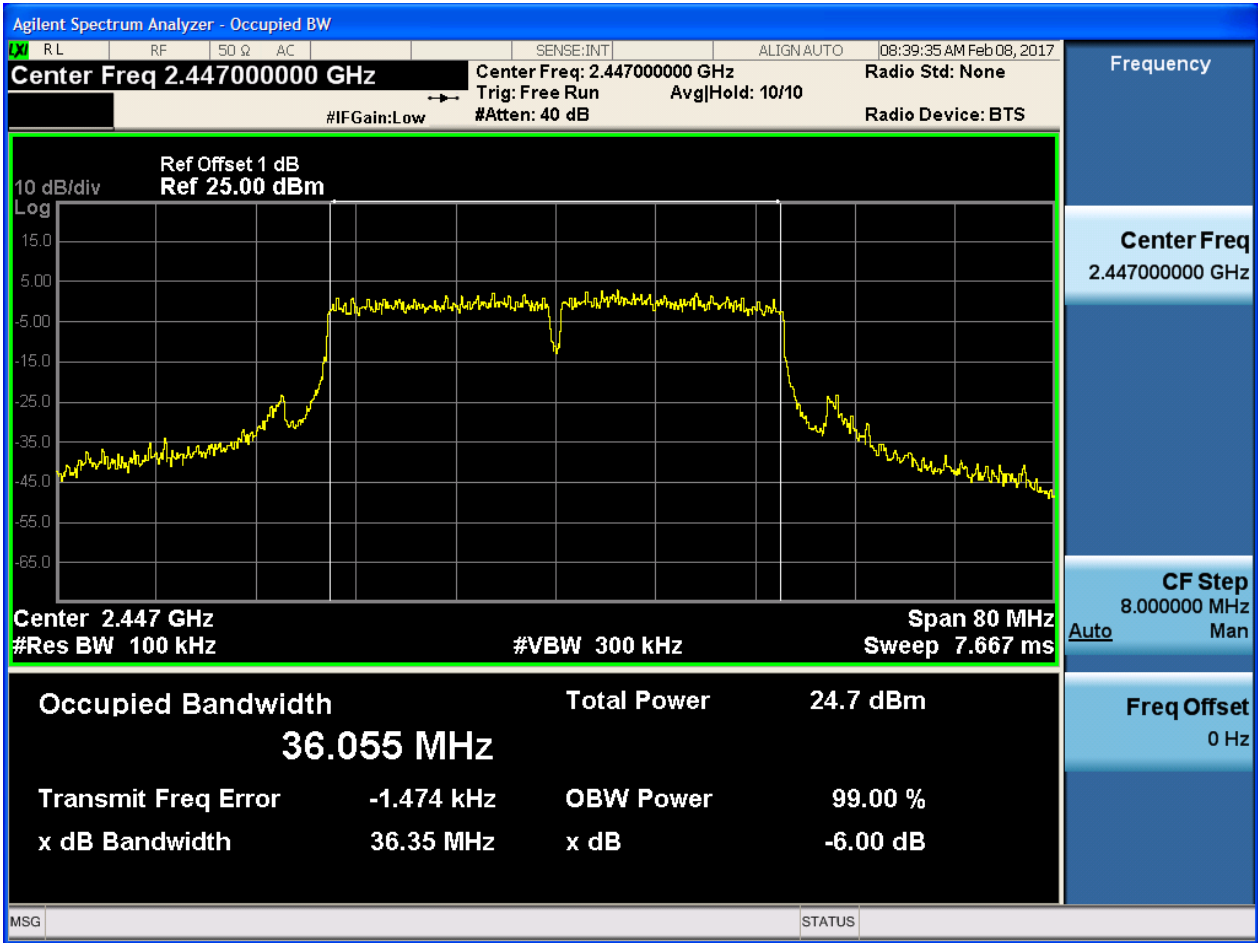


2.27 11N40\_M@Ant 1



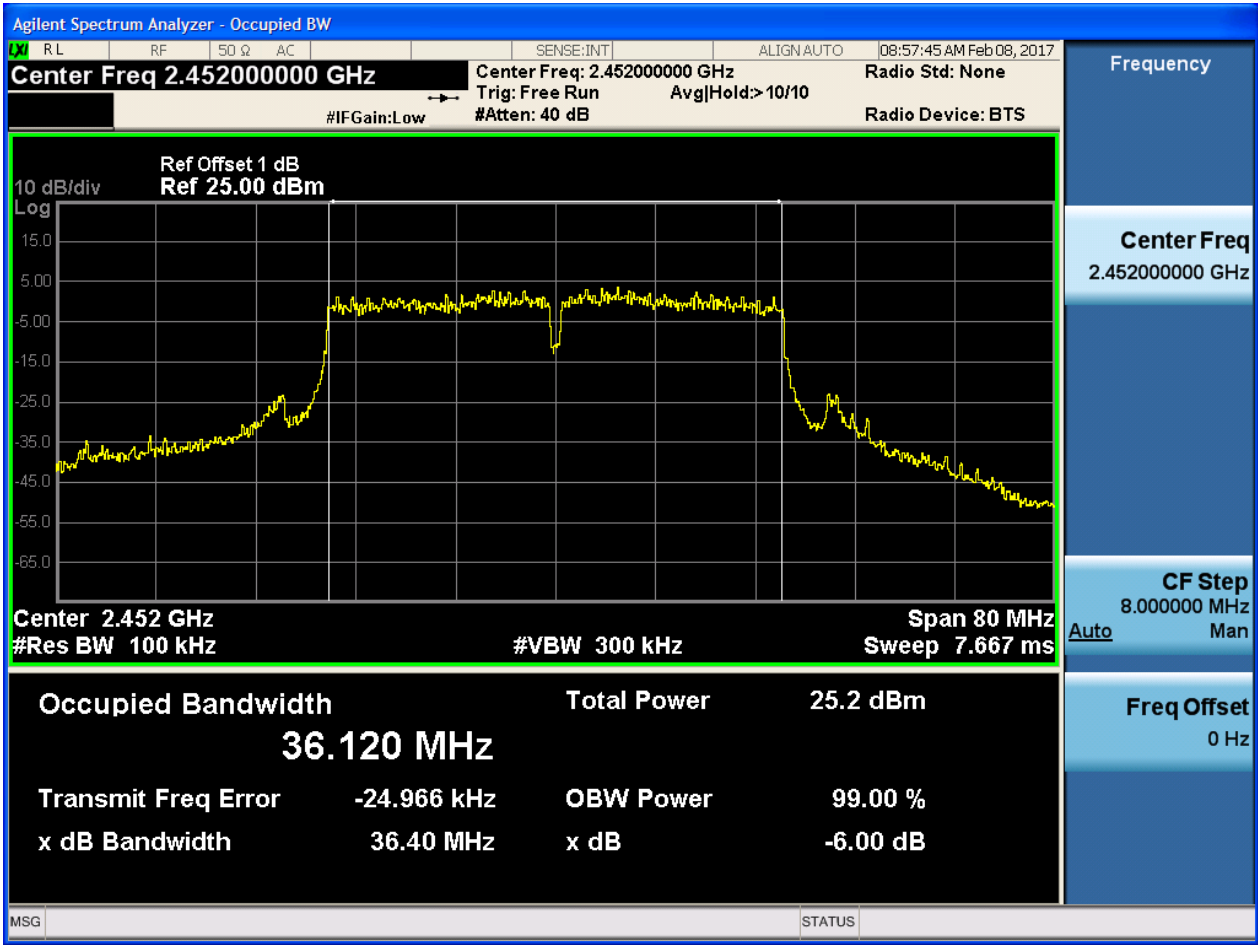


2.28 11N40\_M@Ant 2





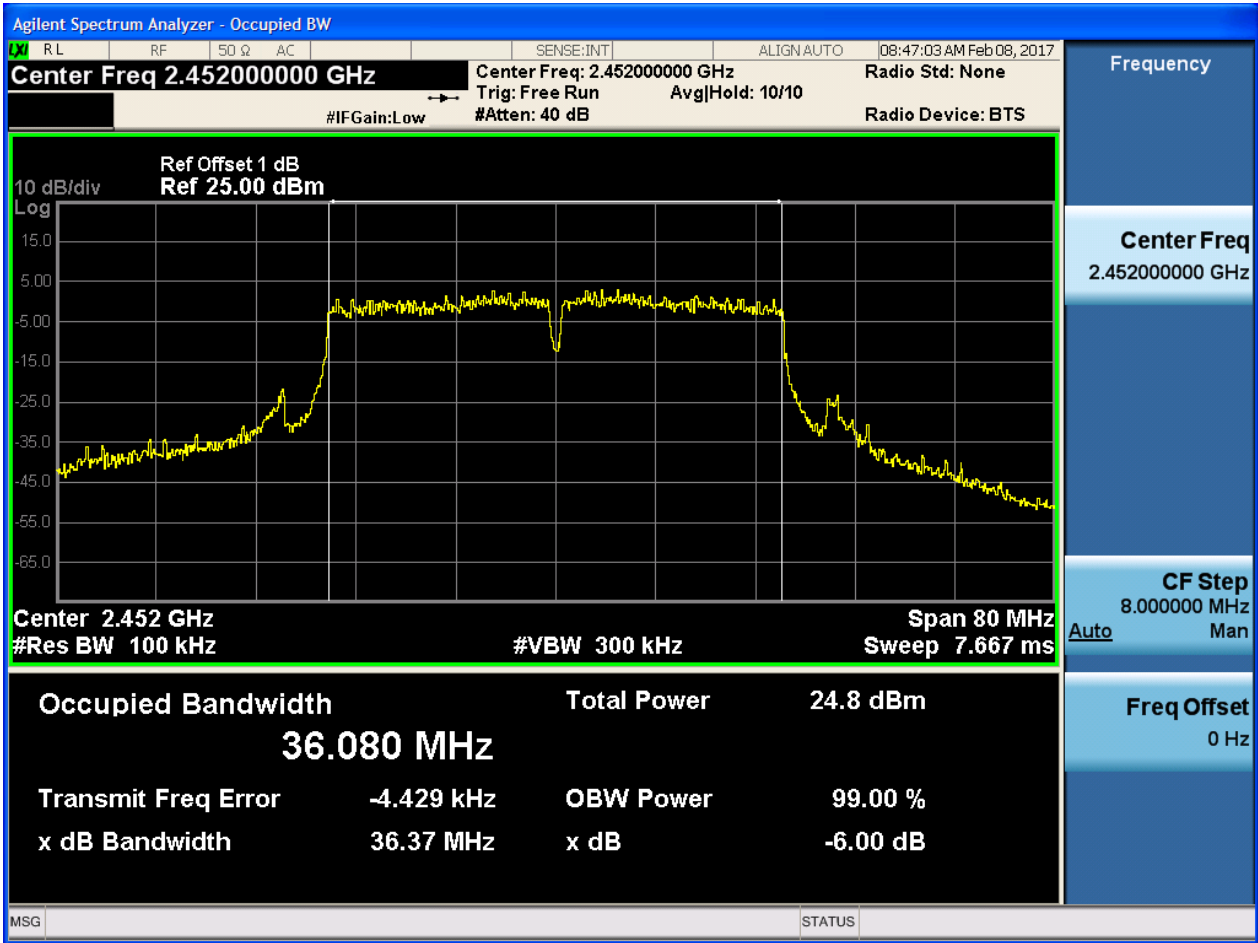
2.29 11N40\_H@Ant 1





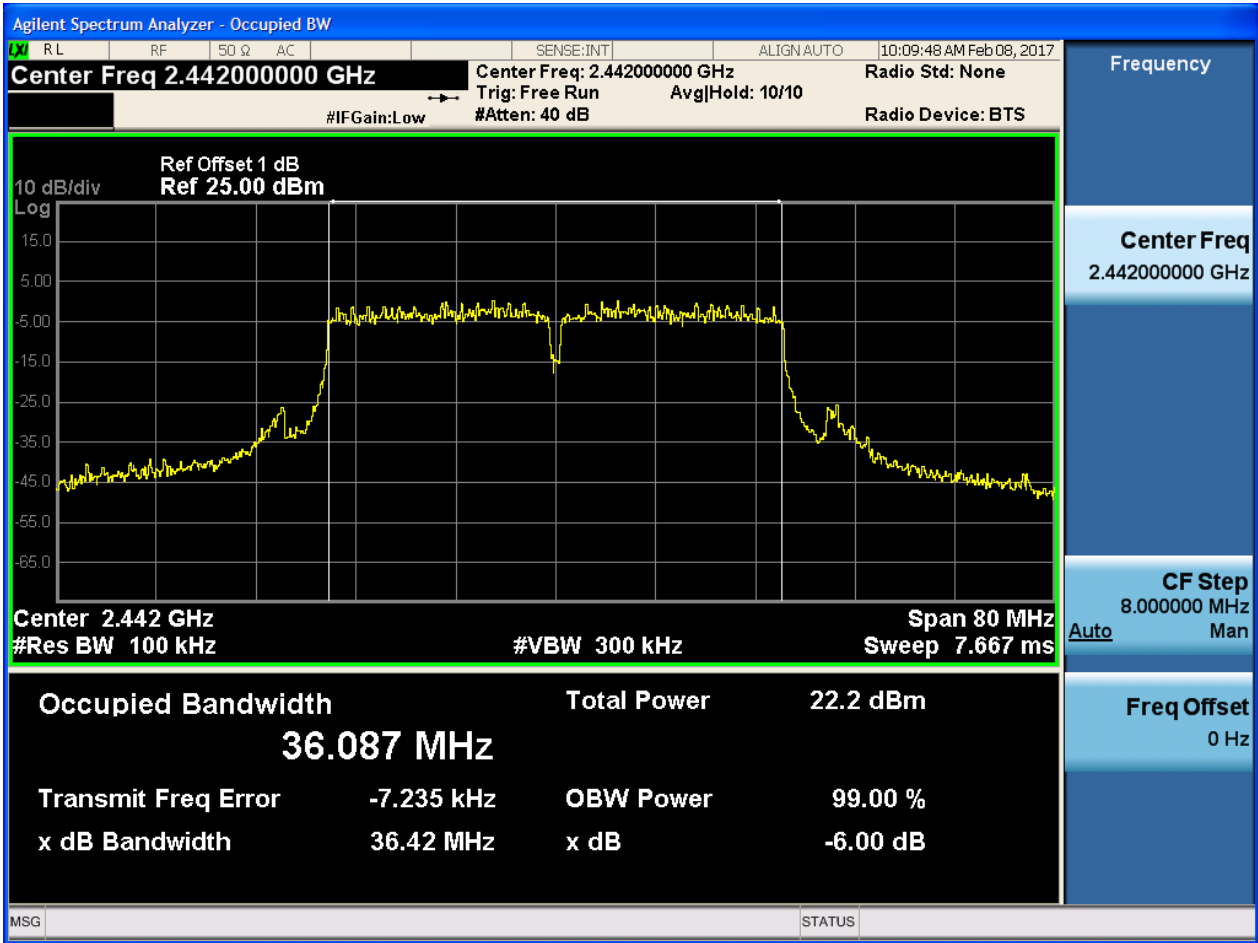


2.30 11N40\_H@Ant 2



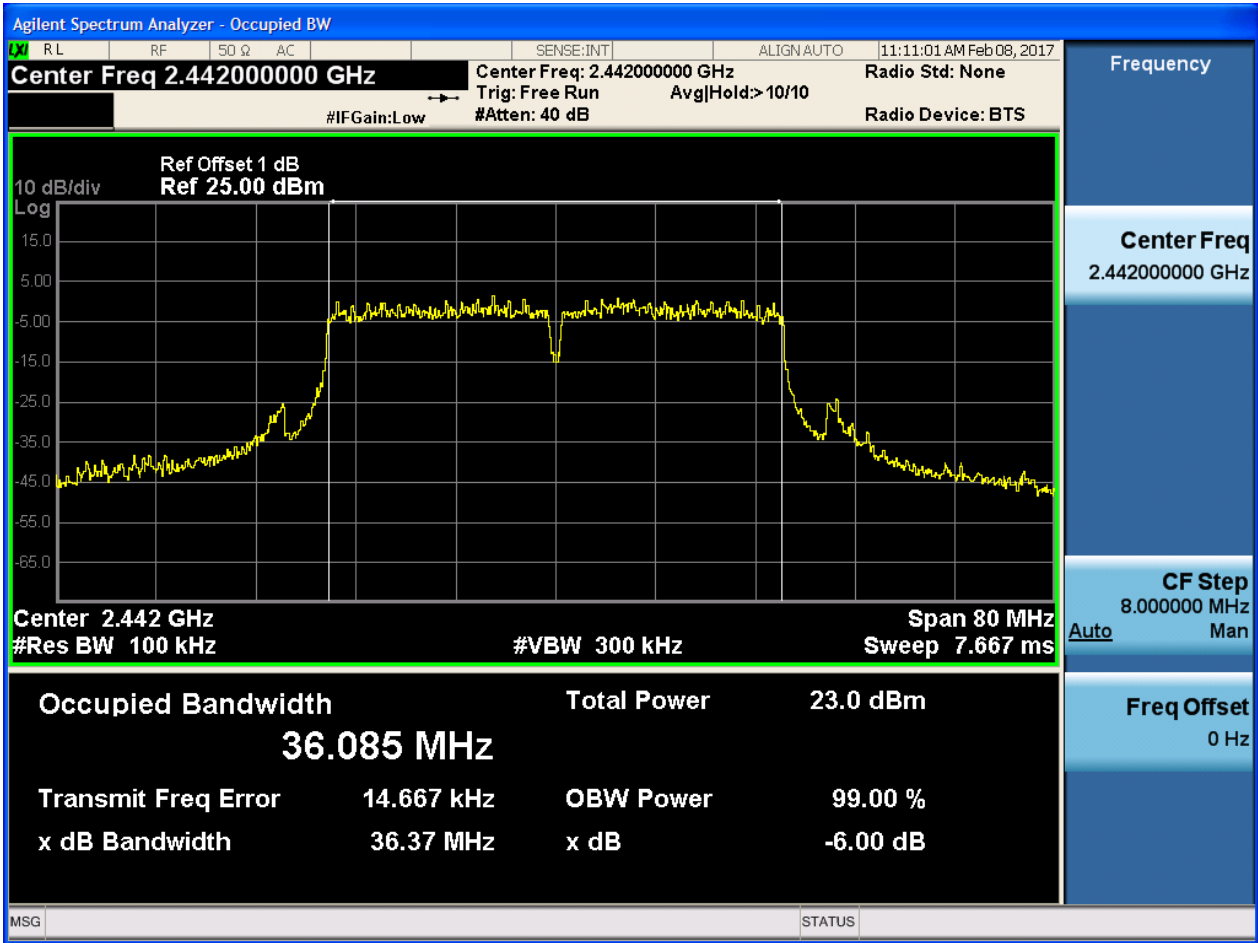


2.31 11N40m\_L@Ant 1



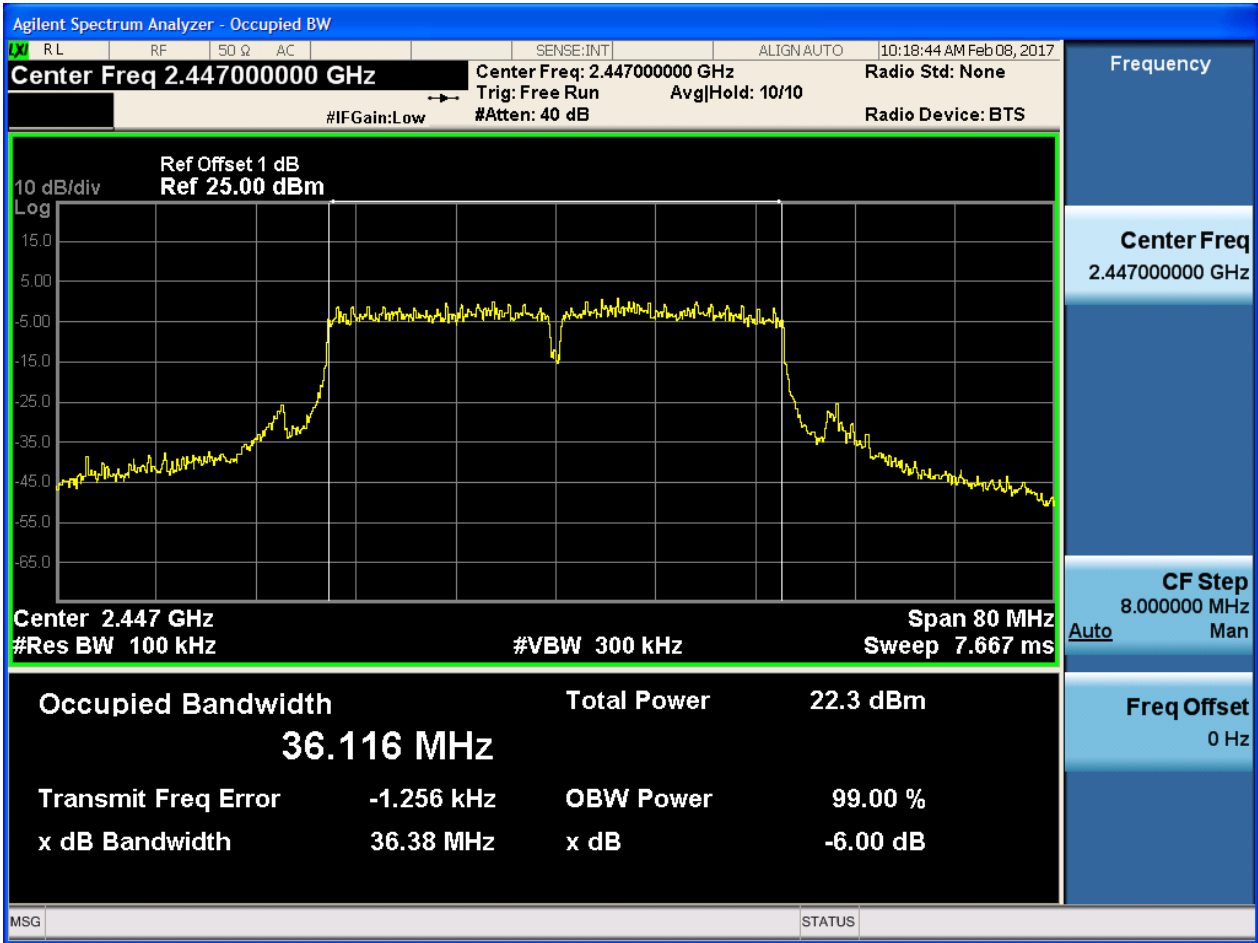


2.32 11N40m\_L@Ant 2



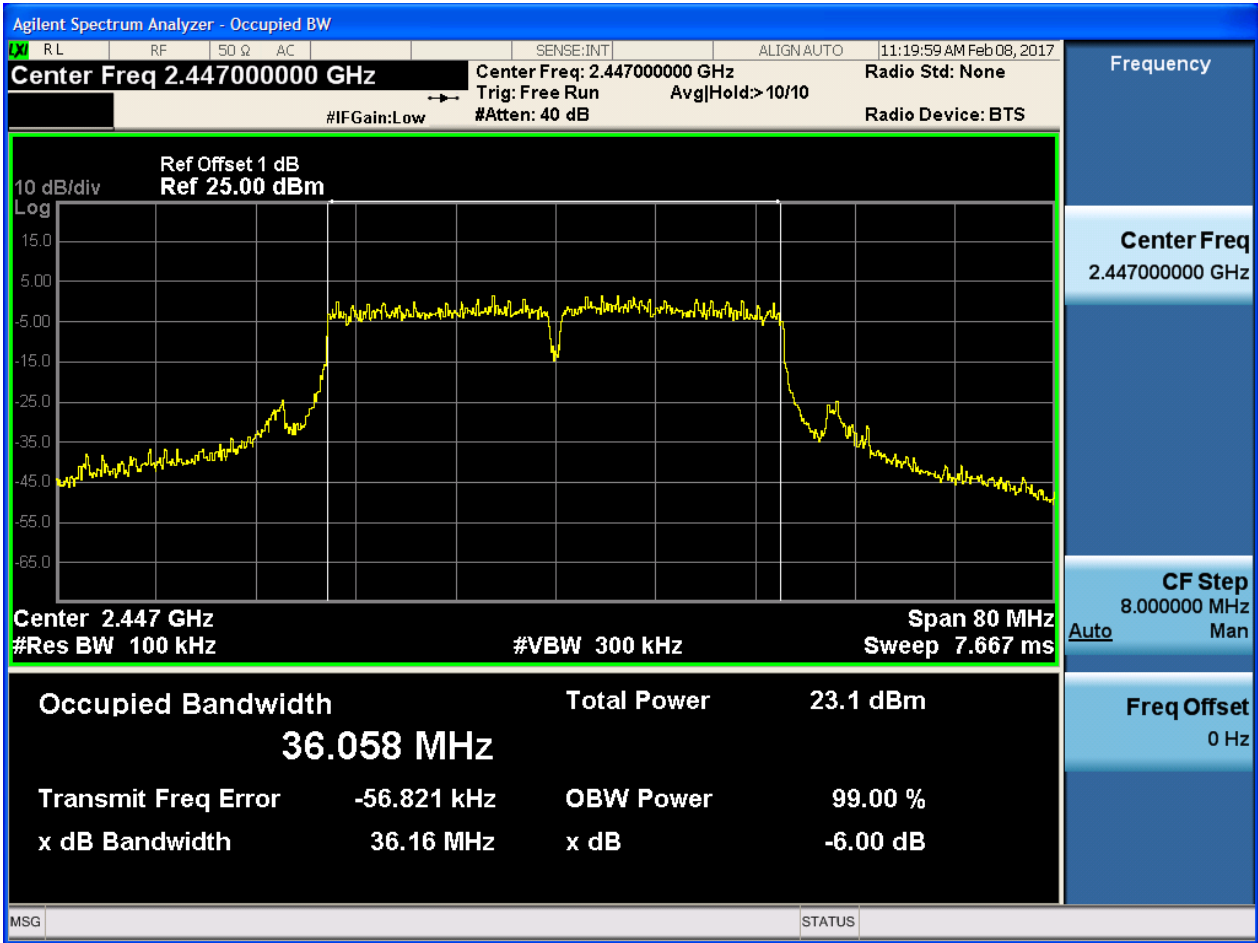


2.33 11N40m\_M@Ant 1



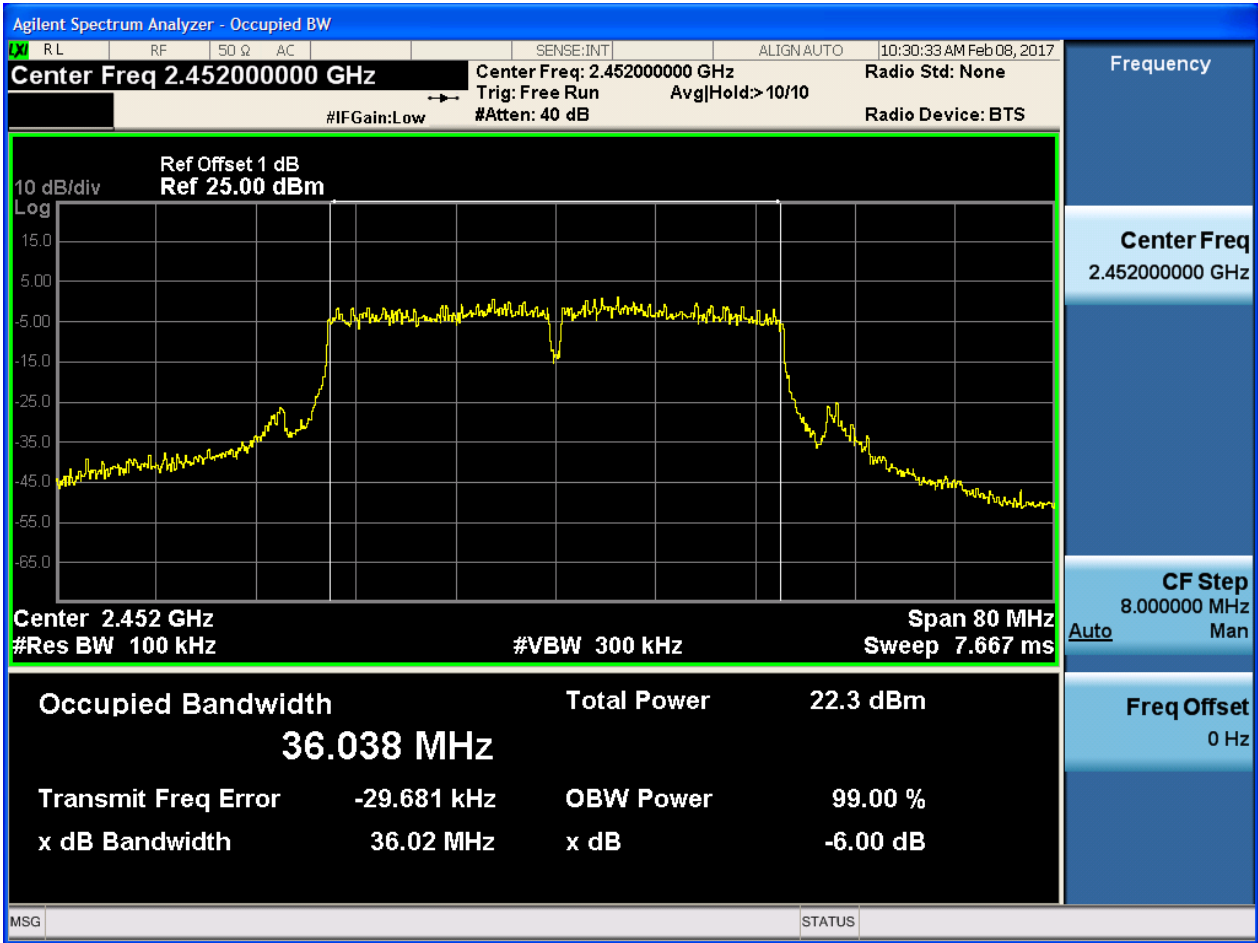


2.34 11N40m\_M@Ant 2



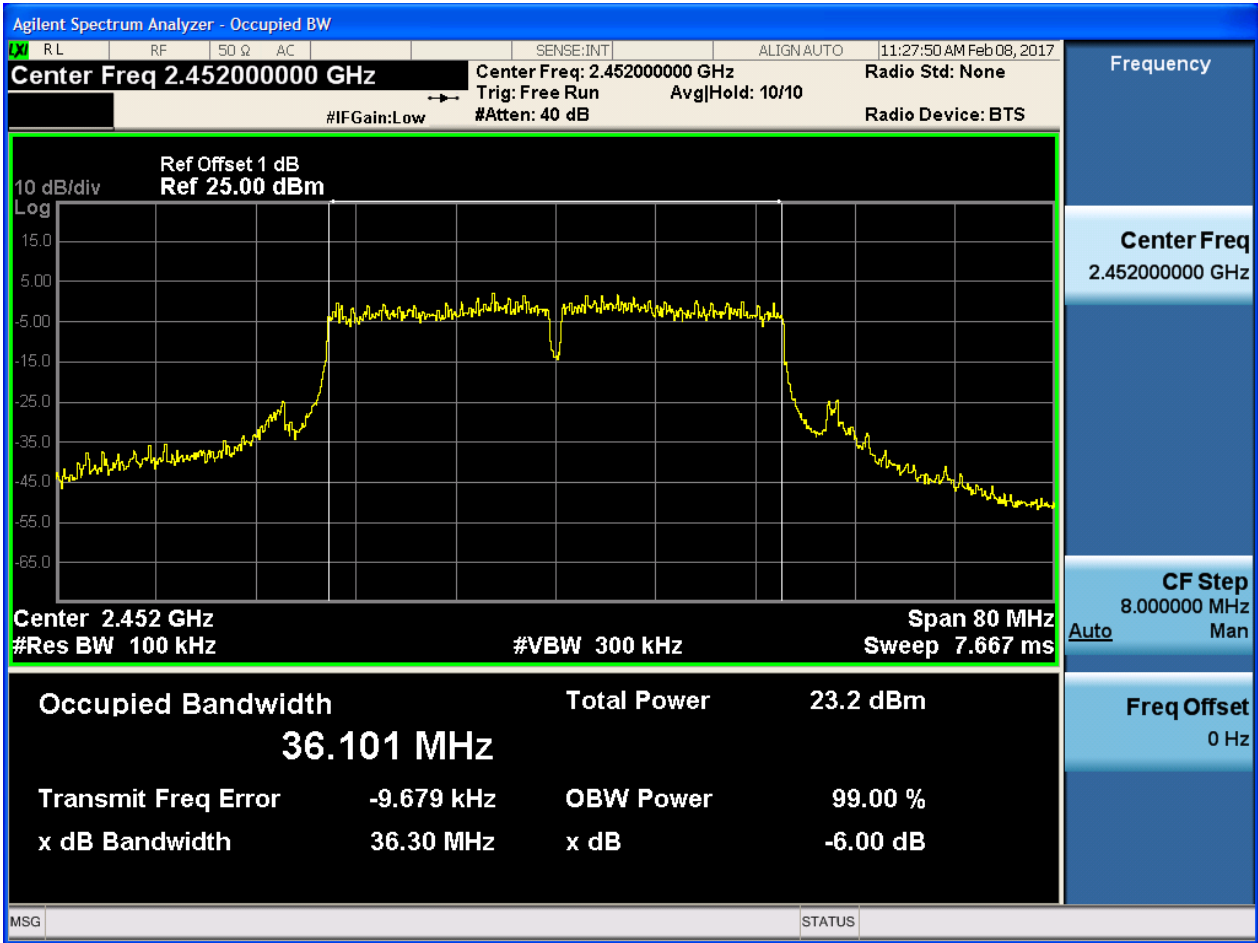


2.35 11N40m\_H@Ant 1





2.36 11N40m\_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	2432	Ant 1	10.14	pass
11B	L	2432	Ant 2	10.15	pass
11B	M	2447	Ant 1	10.16	pass
11B	M	2447	Ant 2	10.16	pass
11B	H	2462	Ant 1	10.16	pass
11B	H	2462	Ant 2	10.16	pass
11G	L	2432	Ant 1	16.73	pass
11G	L	2432	Ant 2	16.70	pass
11G	M	2447	Ant 1	16.74	pass
11G	M	2447	Ant 2	16.74	pass
11G	H	2462	Ant 1	16.73	pass
11G	H	2462	Ant 2	16.73	pass
11N20	L	2432	Ant 1	17.71	pass
11N20	L	2432	Ant 2	17.71	pass
11N20	M	2447	Ant 1	17.76	pass
11N20	M	2447	Ant 2	17.76	pass
11N20	H	2462	Ant 1	17.72	pass
11N20	H	2462	Ant 2	17.72	pass
11N20m	L	2432	Ant 1	17.75	pass
11N20m	L	2432	Ant 2	17.72	pass
11N20m	M	2447	Ant 1	17.75	pass
11N20m	M	2447	Ant 2	17.73	pass
11N20m	H	2462	Ant 1	17.75	pass
11N20m	H	2462	Ant 2	17.76	pass
11N40	L	2442	Ant 1	36.23	pass
11N40	L	2442	Ant 2	36.20	pass
11N40	M	2447	Ant 1	36.11	pass
11N40	M	2447	Ant 2	36.18	pass
11N40	H	2452	Ant 1	36.17	pass
11N40	H	2452	Ant 2	36.17	pass
11N40m	L	2442	Ant 1	36.17	pass
11N40m	L	2442	Ant 2	36.22	pass
11N40m	M	2447	Ant 1	36.20	pass
11N40m	M	2447	Ant 2	36.19	pass





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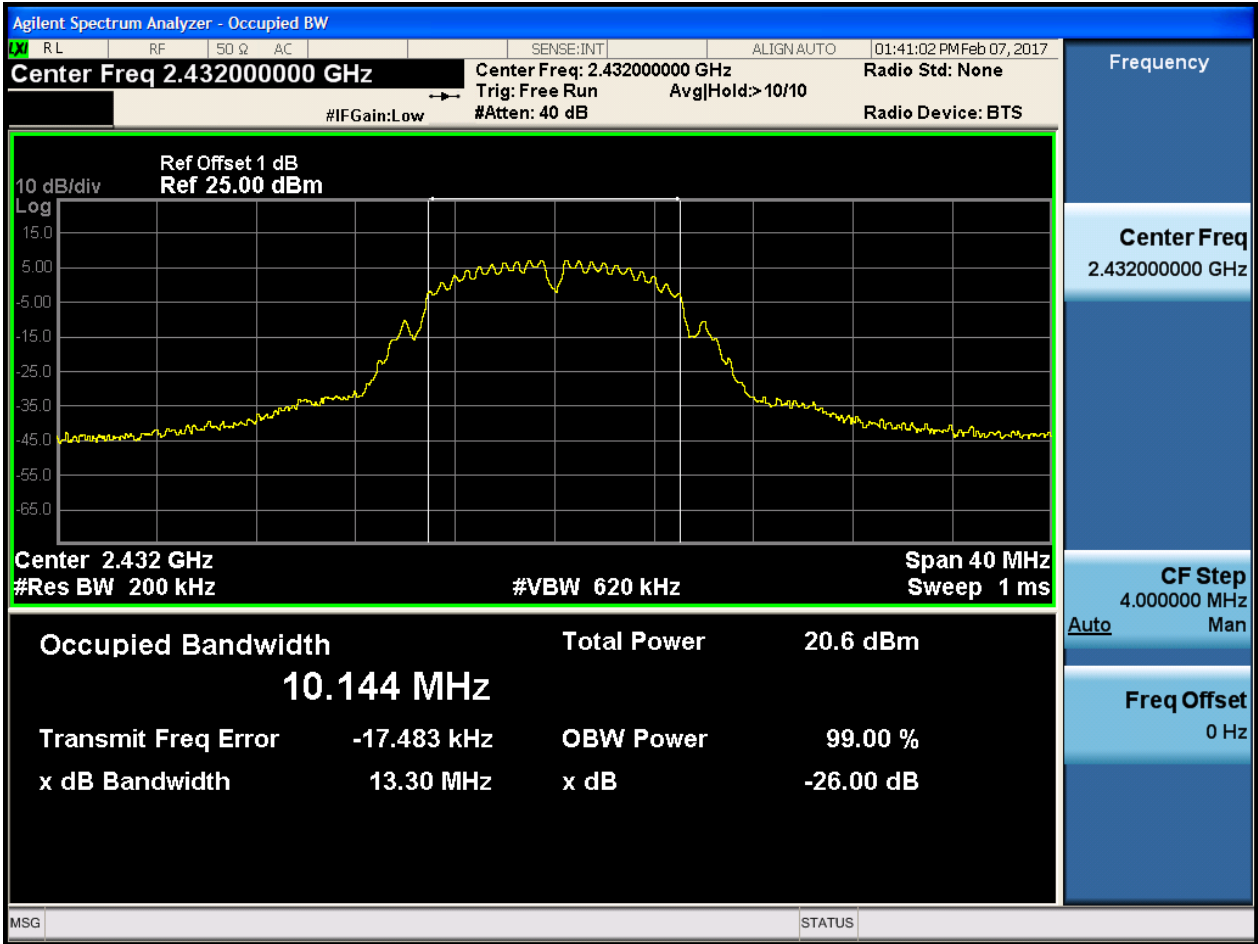
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Test Mode	Test Channel	Frequency[MHz]	Ant	Occupied Bandwidth [MHz]	Verdict
11N40m	H	2452	Ant 1	36.18	pass
11N40m	H	2452	Ant 2	36.15	pass



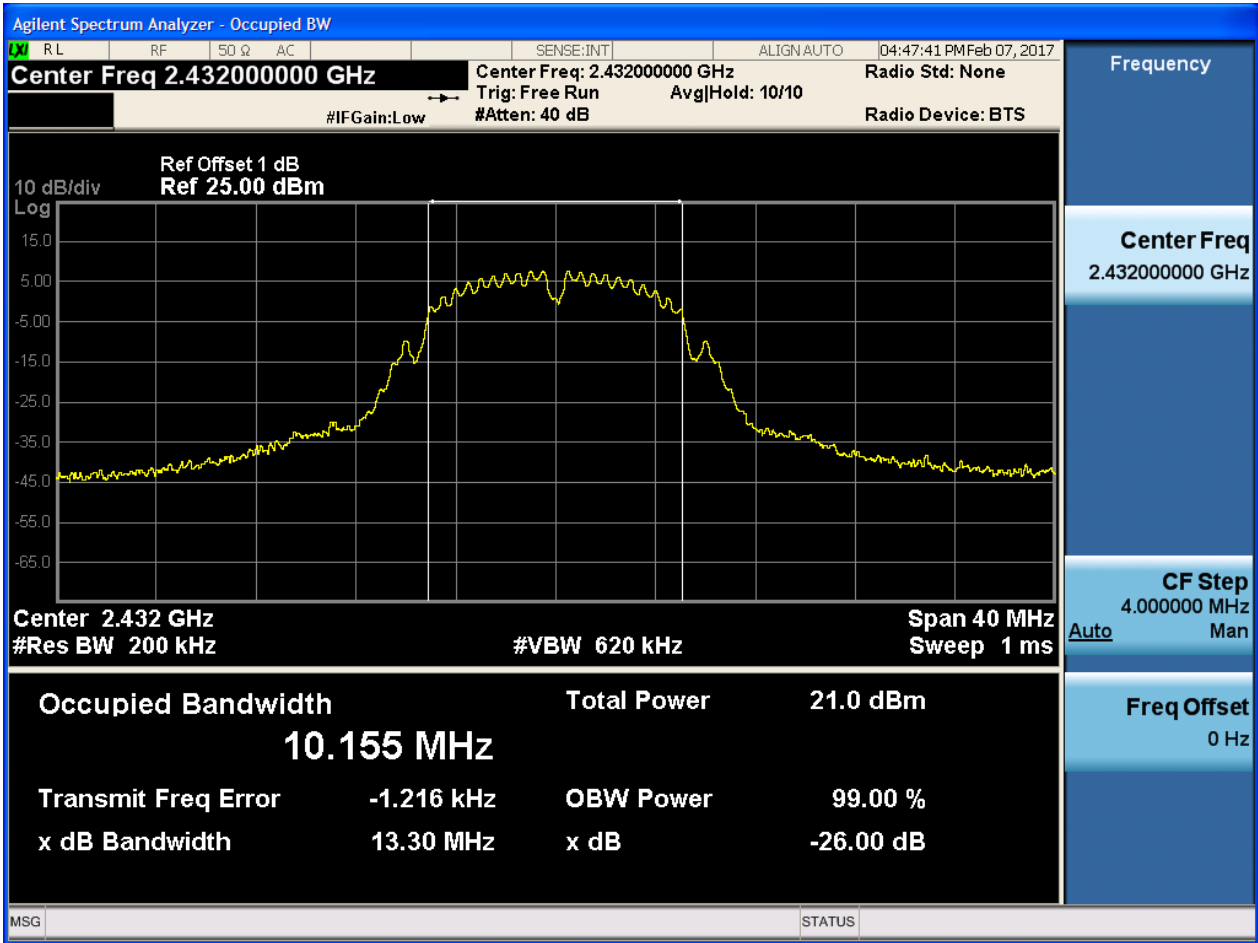
Part II - Test Plots

2.1 11B\_L@Ant 1



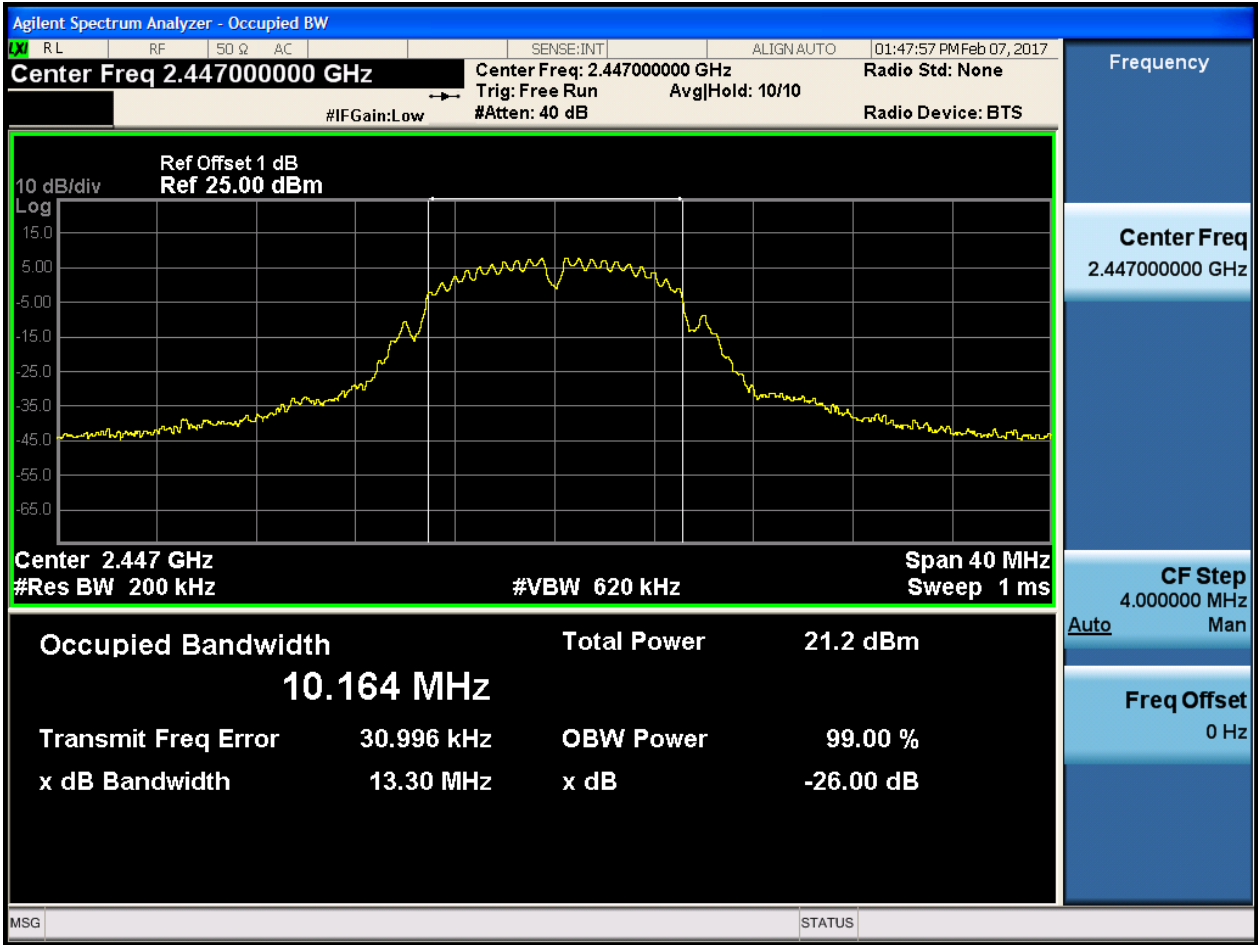


2.2 11B\_L@Ant 2



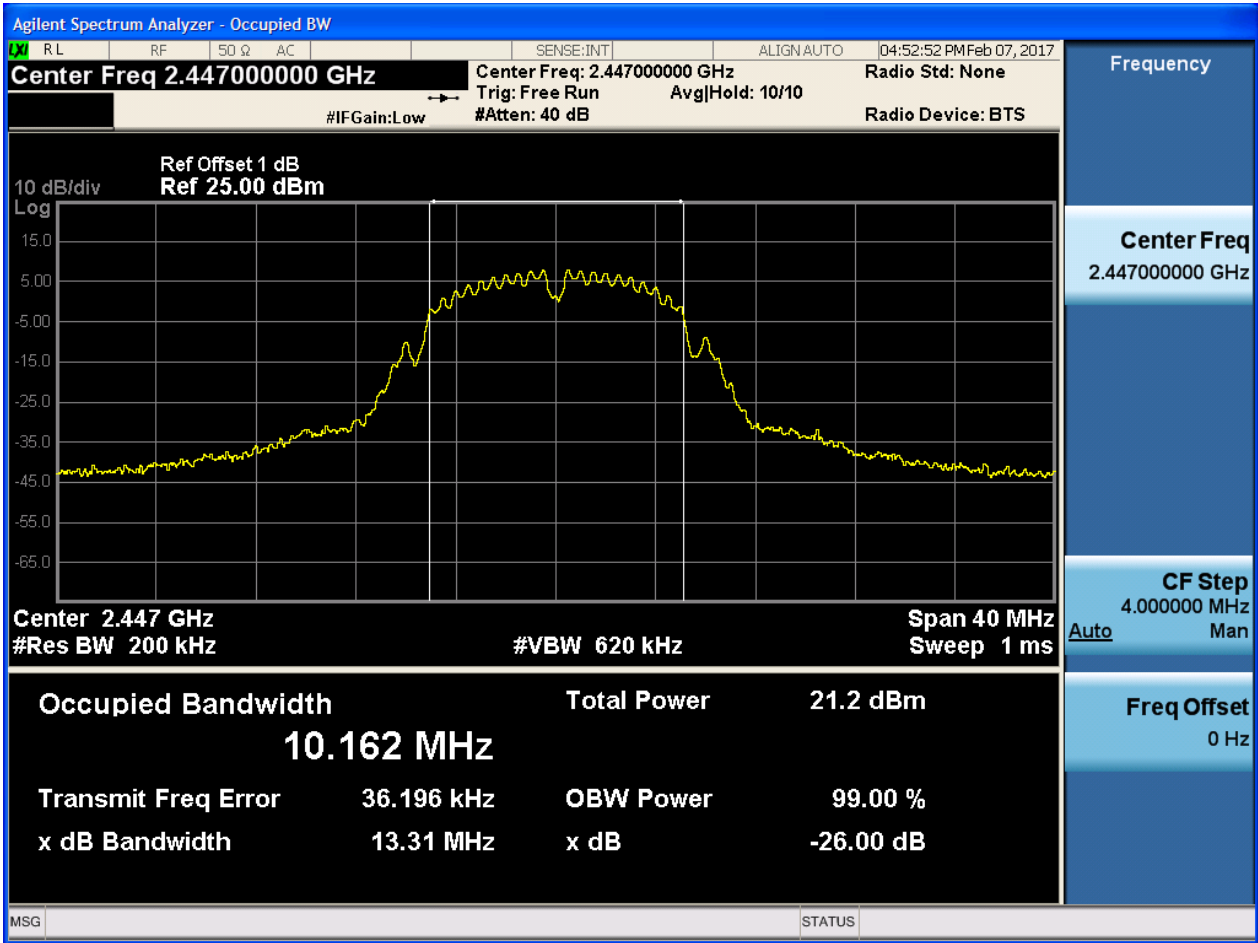


2.3 11B\_M@Ant 1



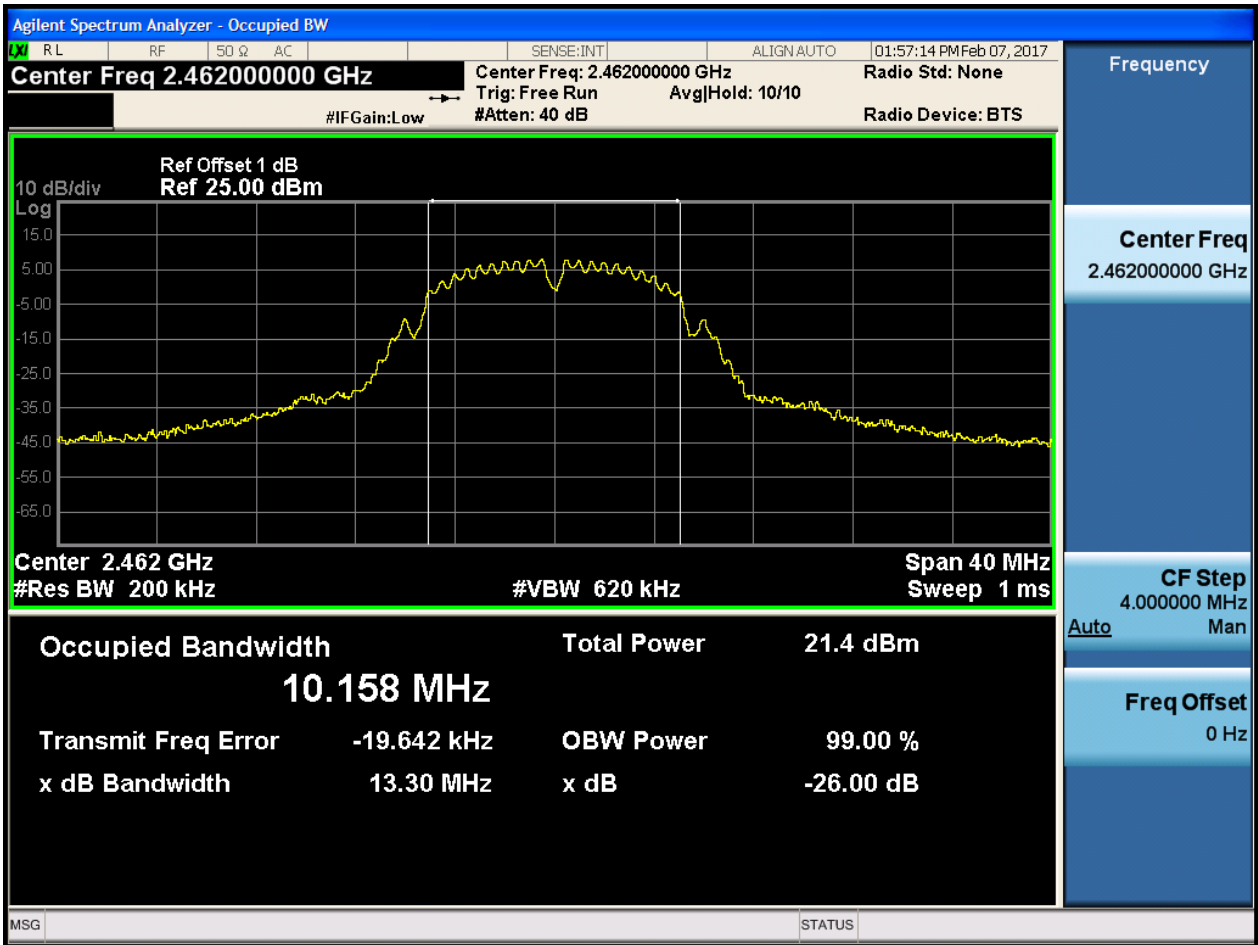


2.4 11B\_M@Ant 2



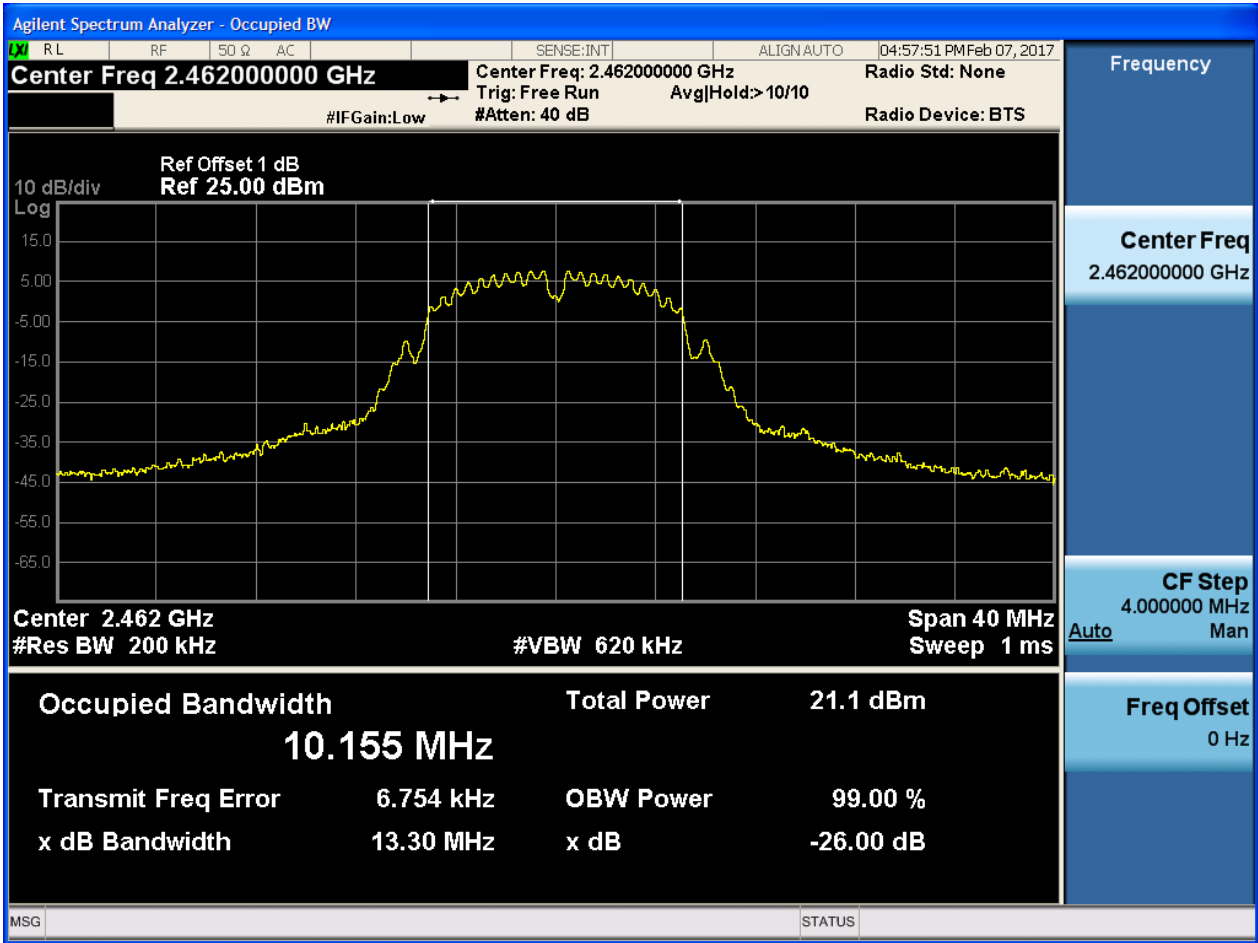


### 2.5 11B\_H@Ant 1



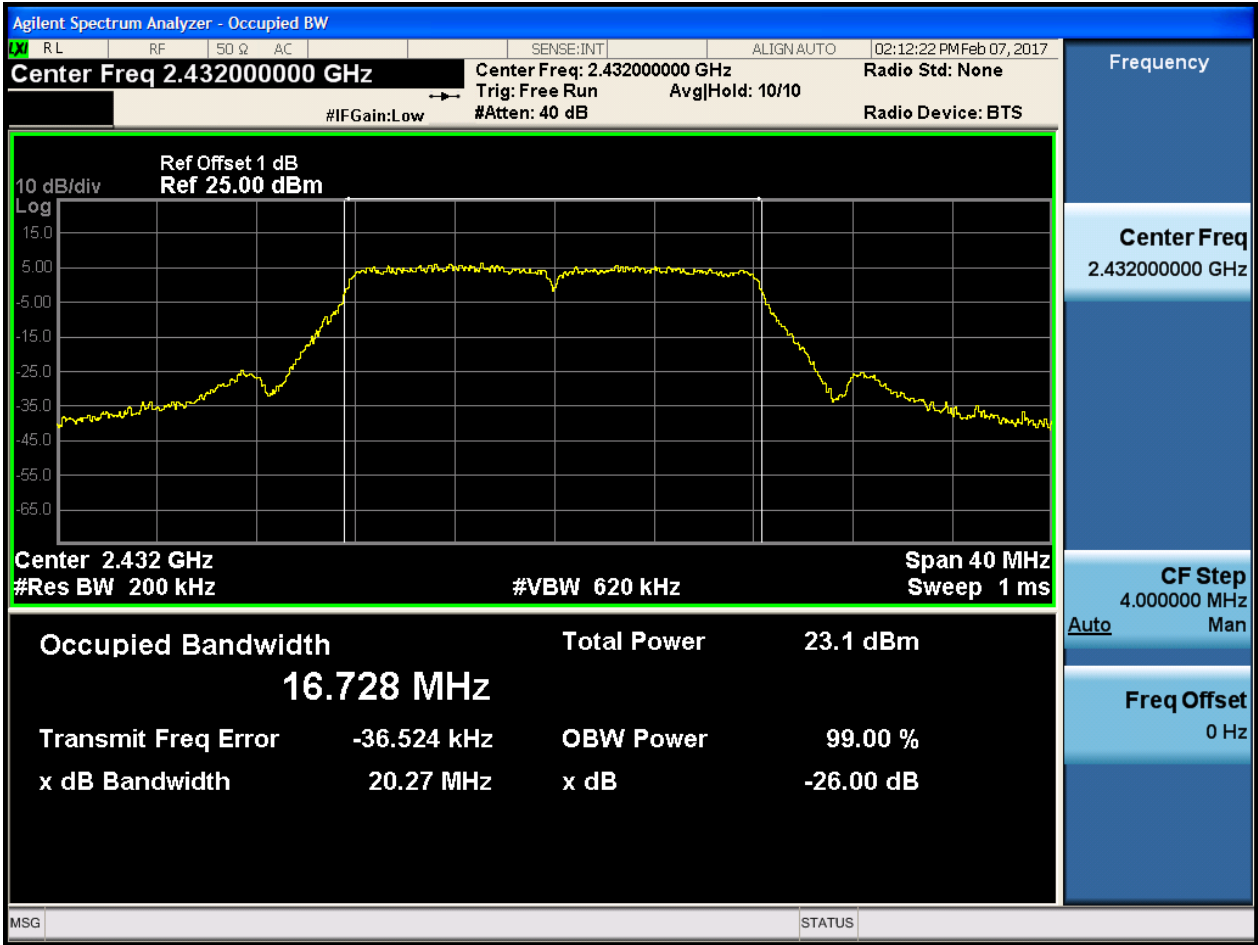


2.6 11B\_H@Ant 2





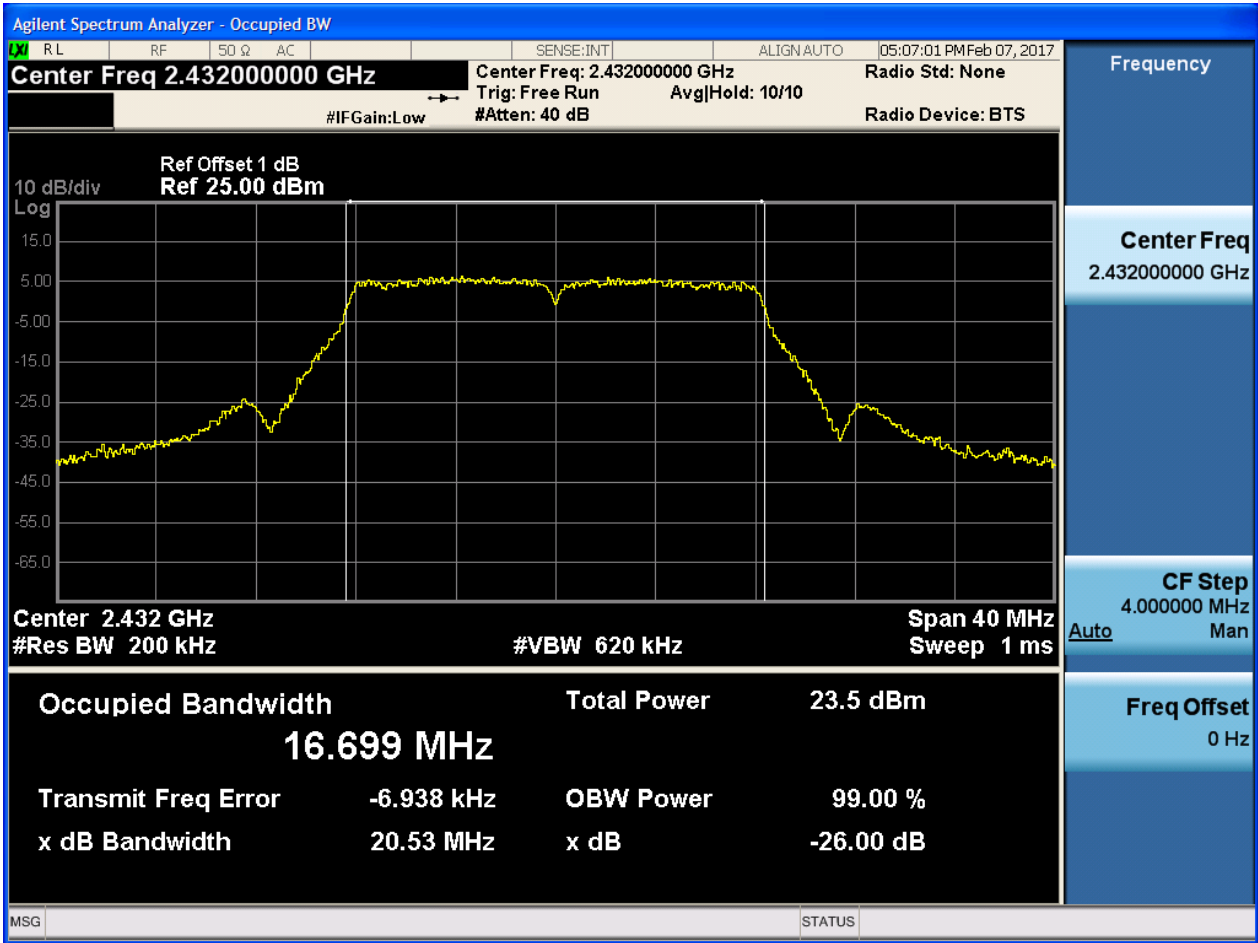
2.7 11G\_L@Ant 1





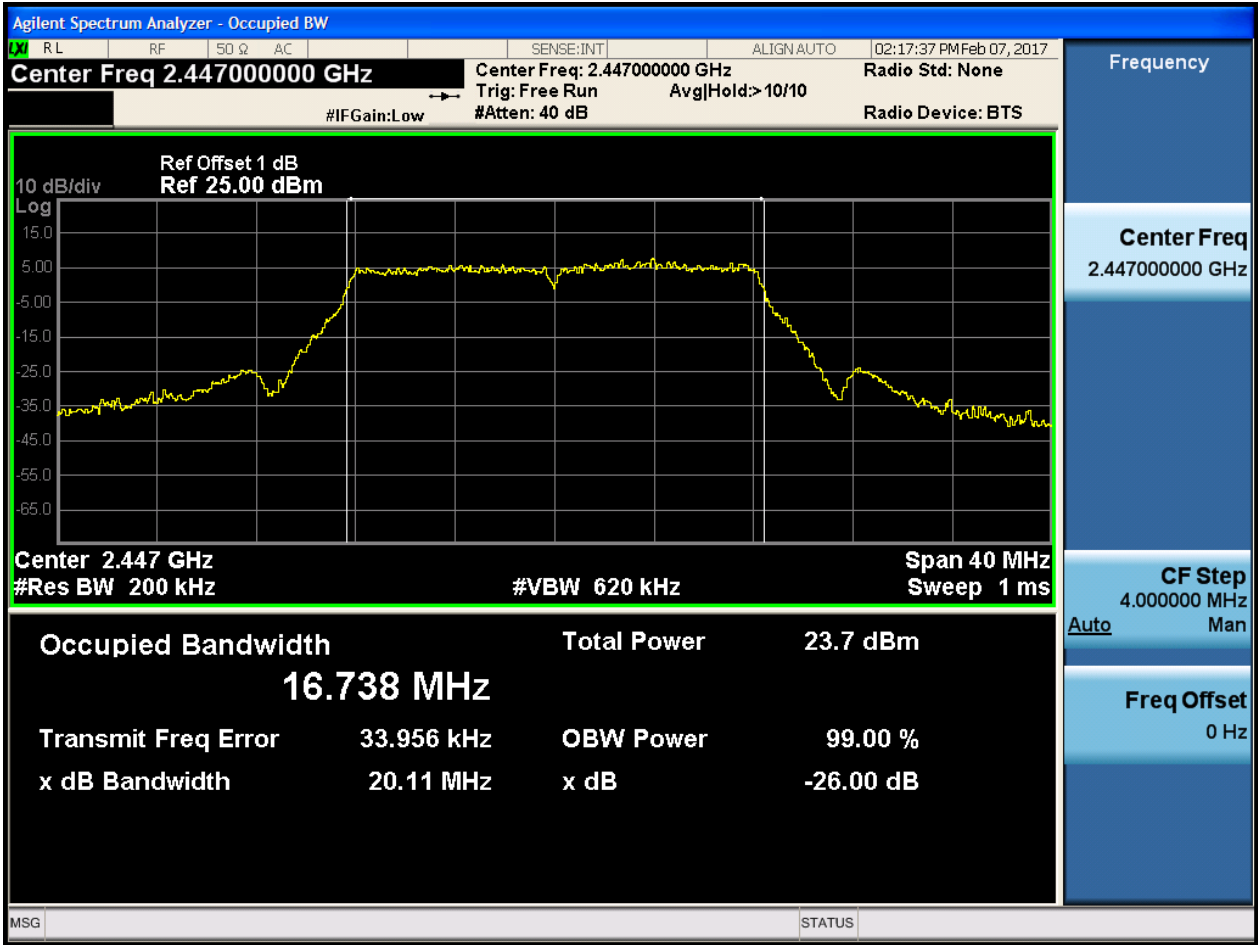


2.8 11G\_L@Ant 2



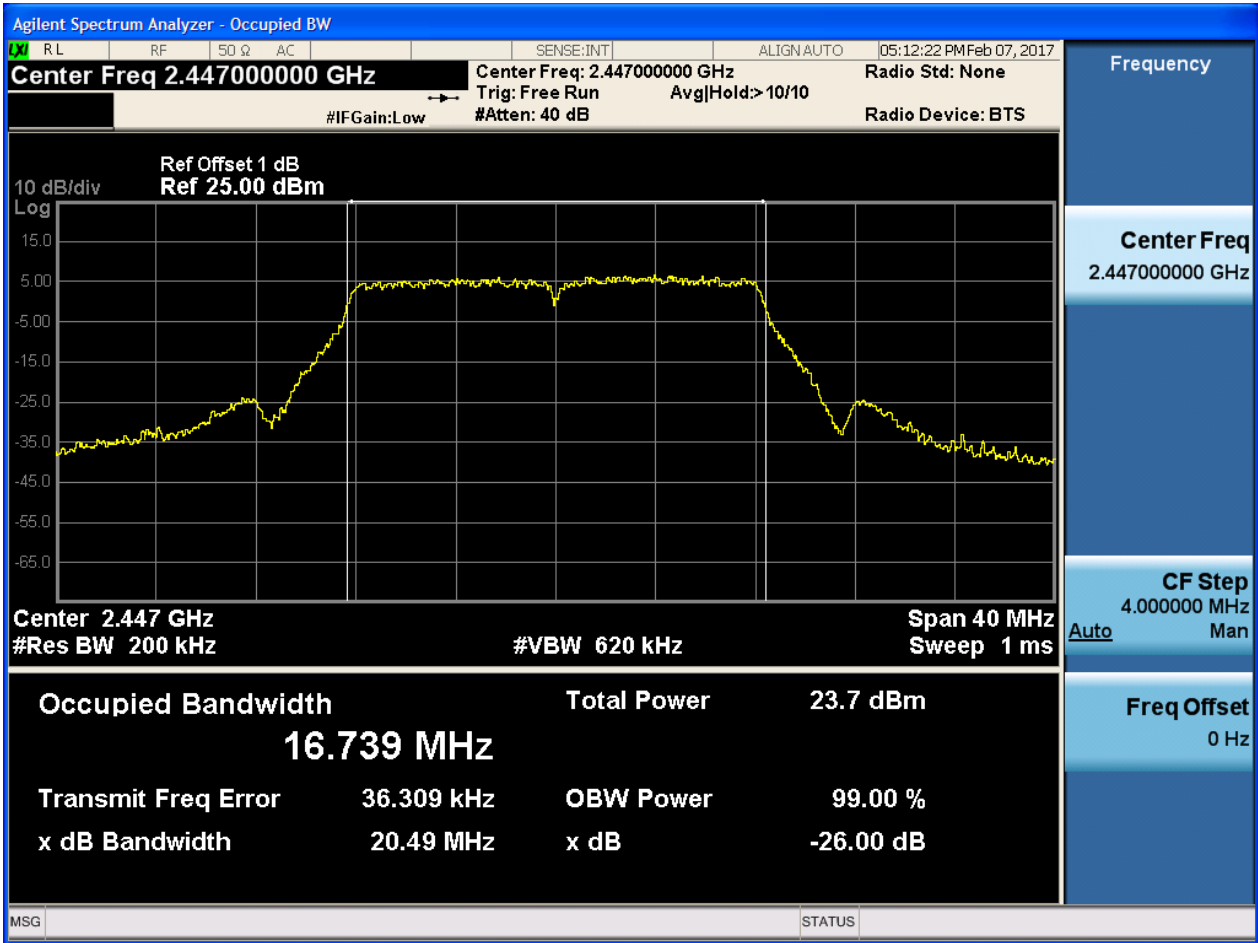


2.9 11G\_M@Ant 1



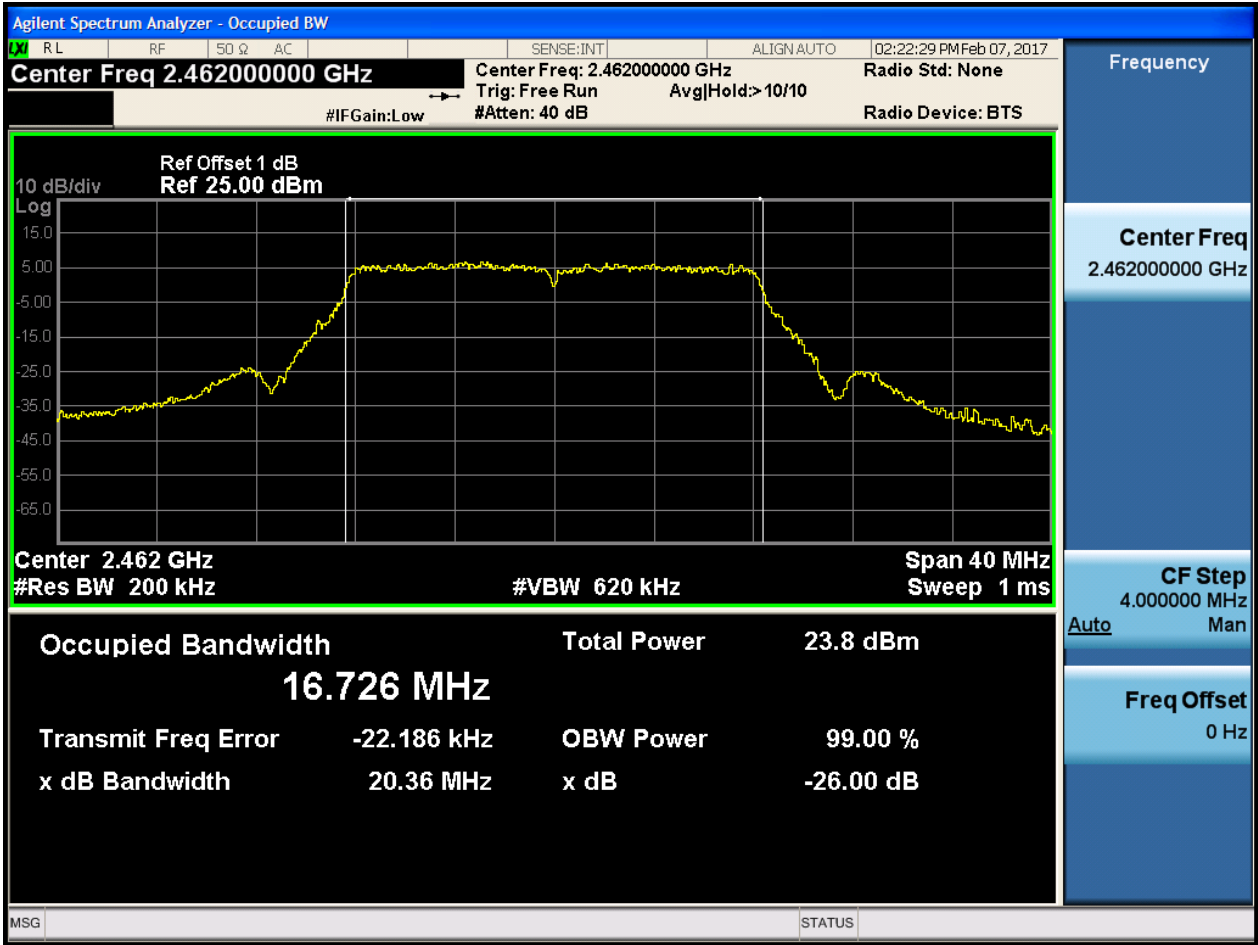


2.10 11G\_M@Ant 2



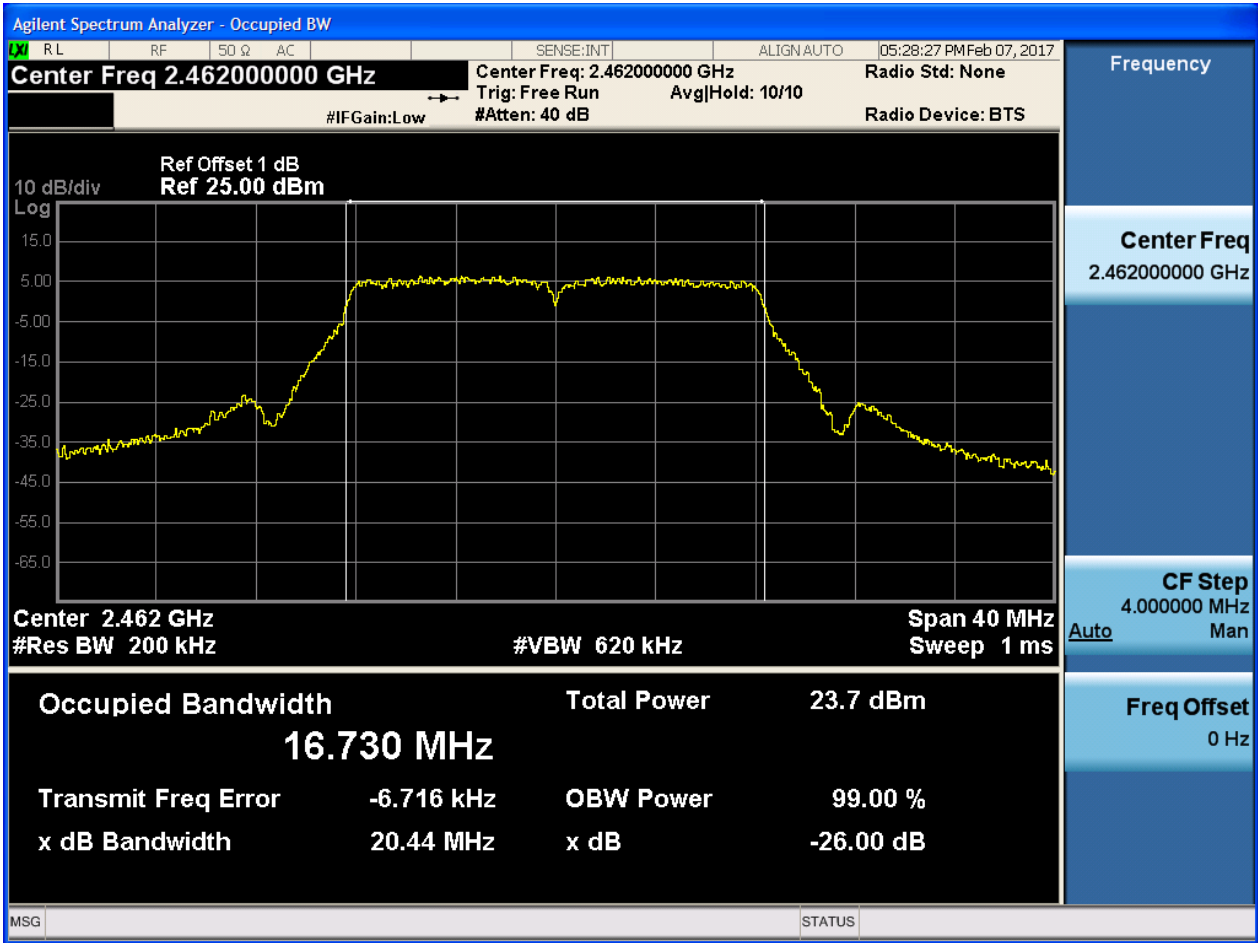


2.11 11G\_H@Ant 1



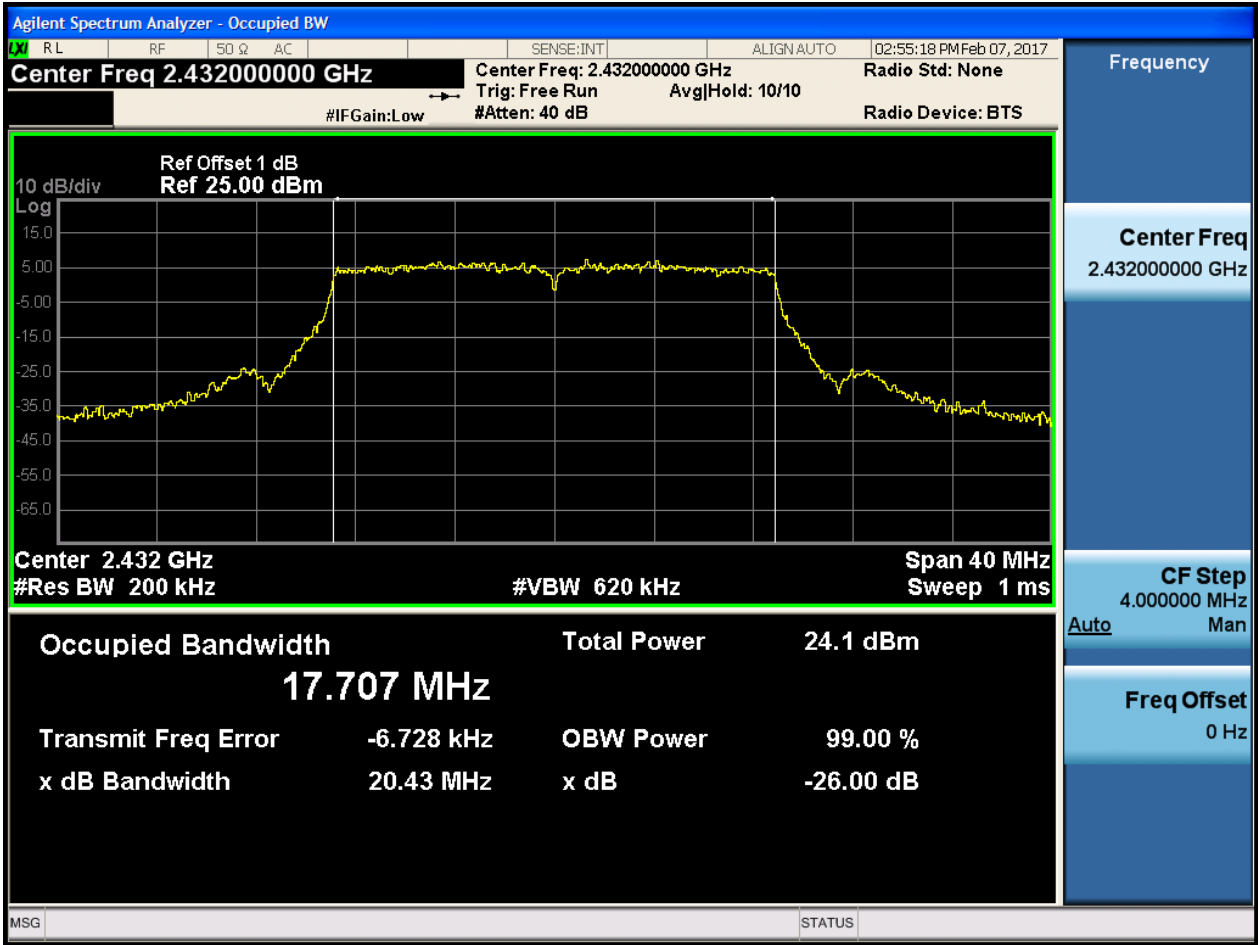


2.12 11G\_H@Ant 2



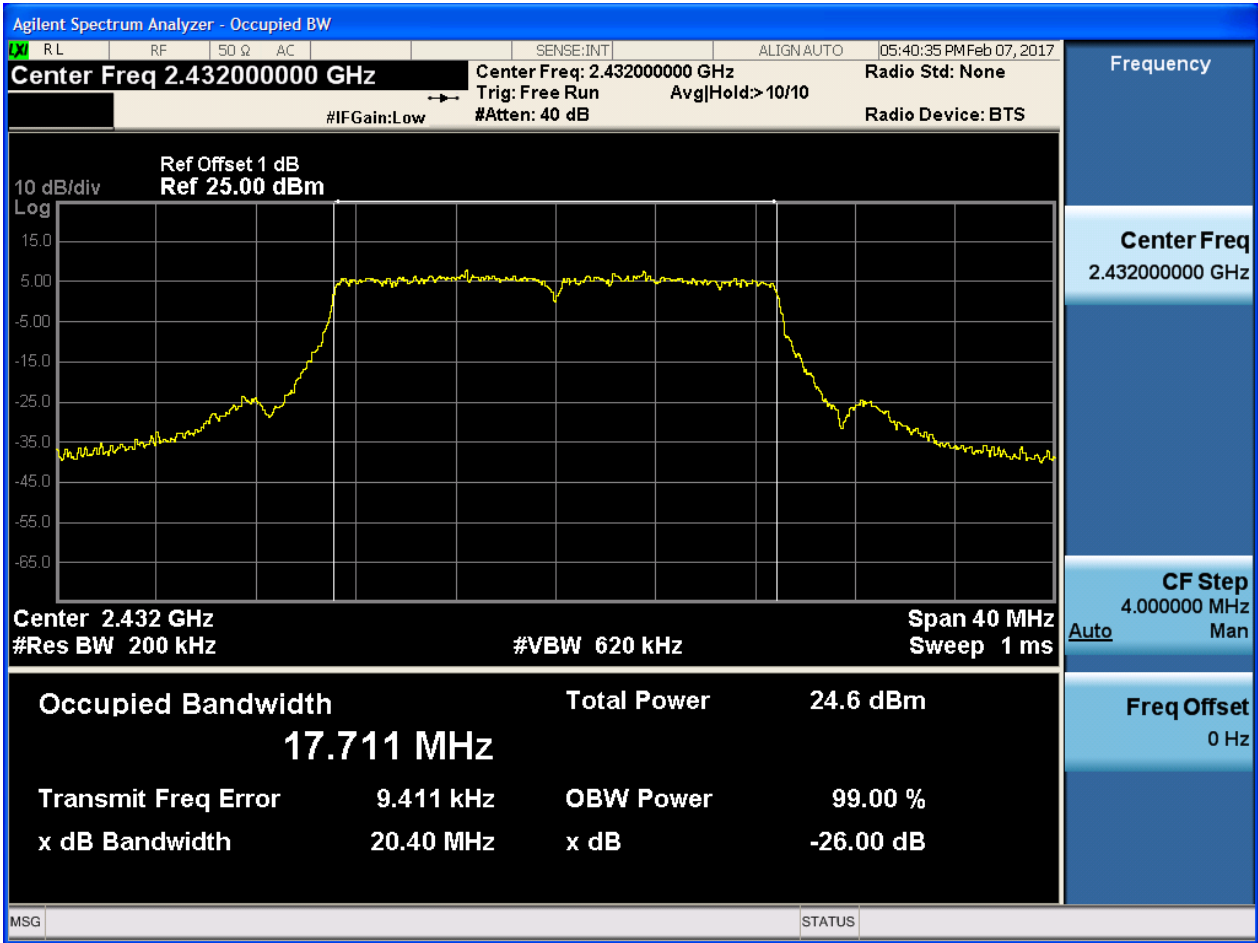


2.13 11N20\_L@Ant 1



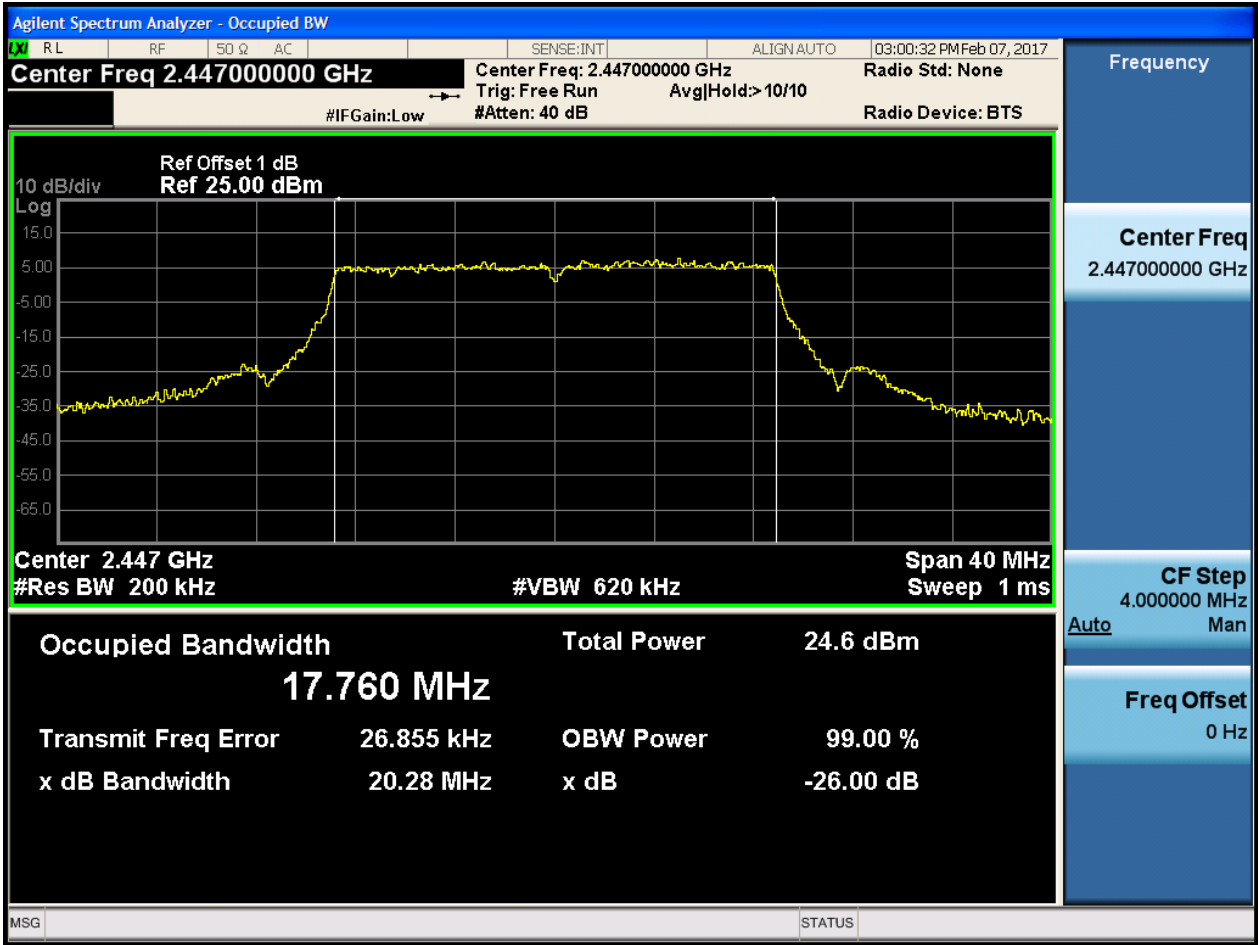


2.14 11N20\_L@Ant 2





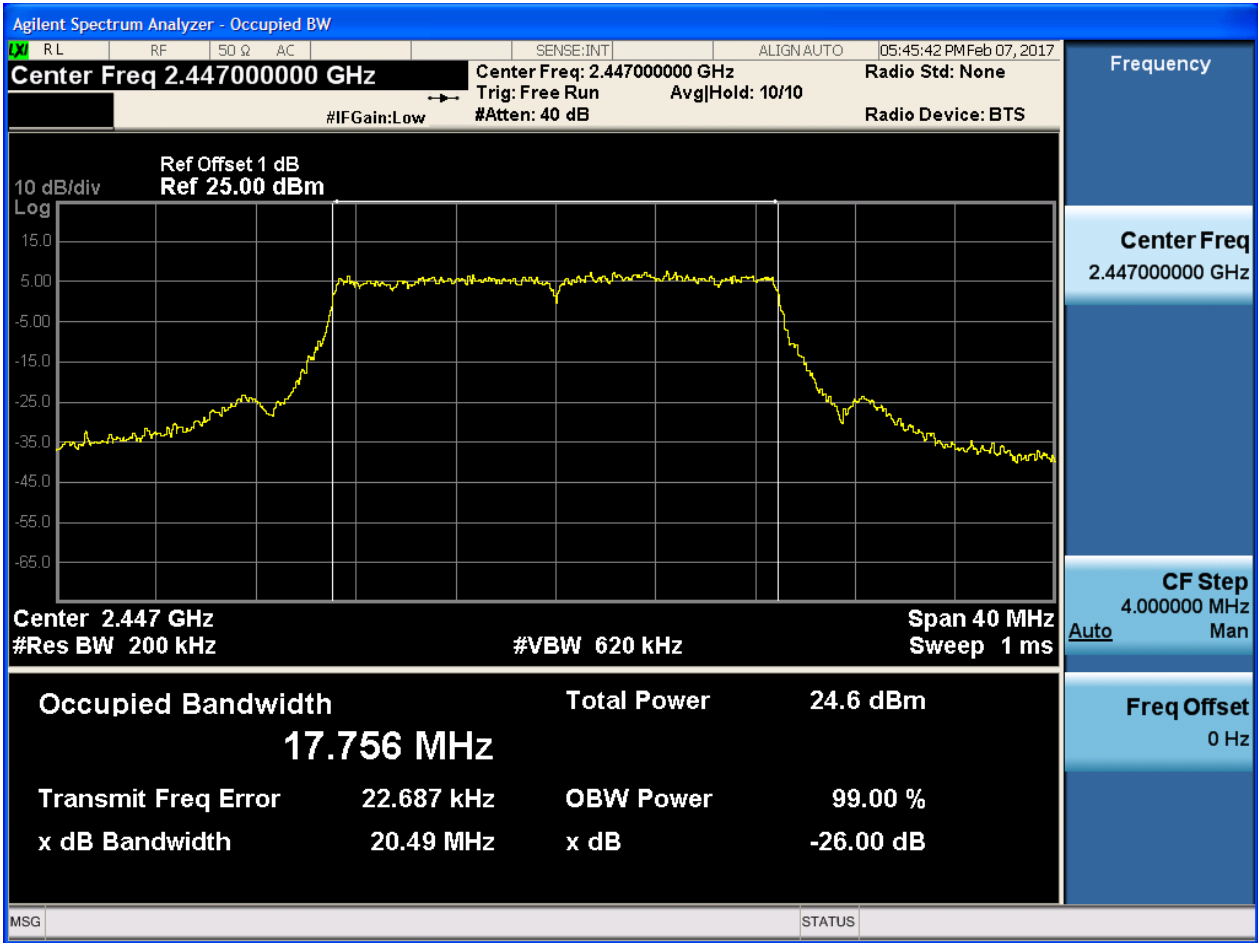
2.15 11N20\_M@Ant 1





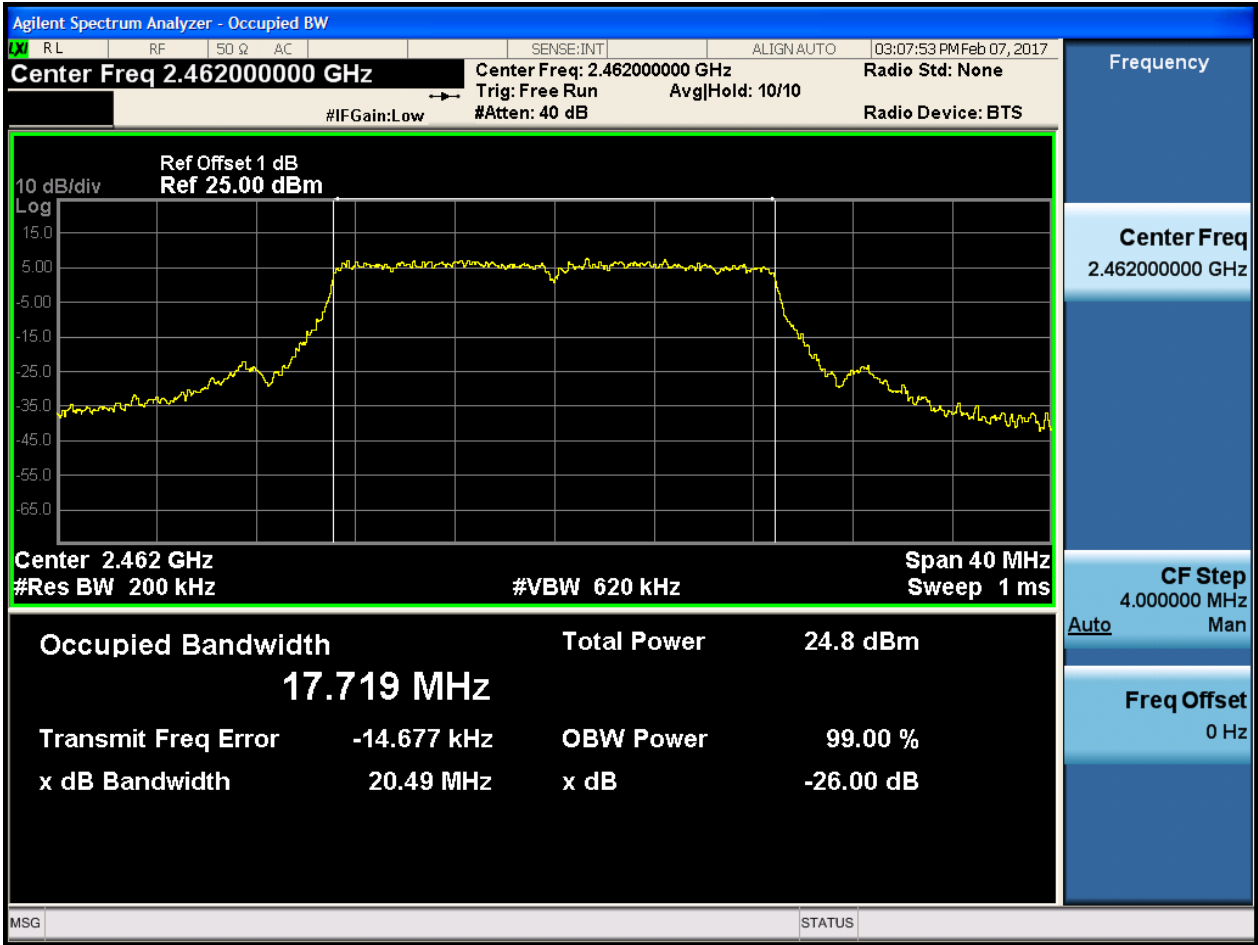


2.16 11N20\_M@Ant 2



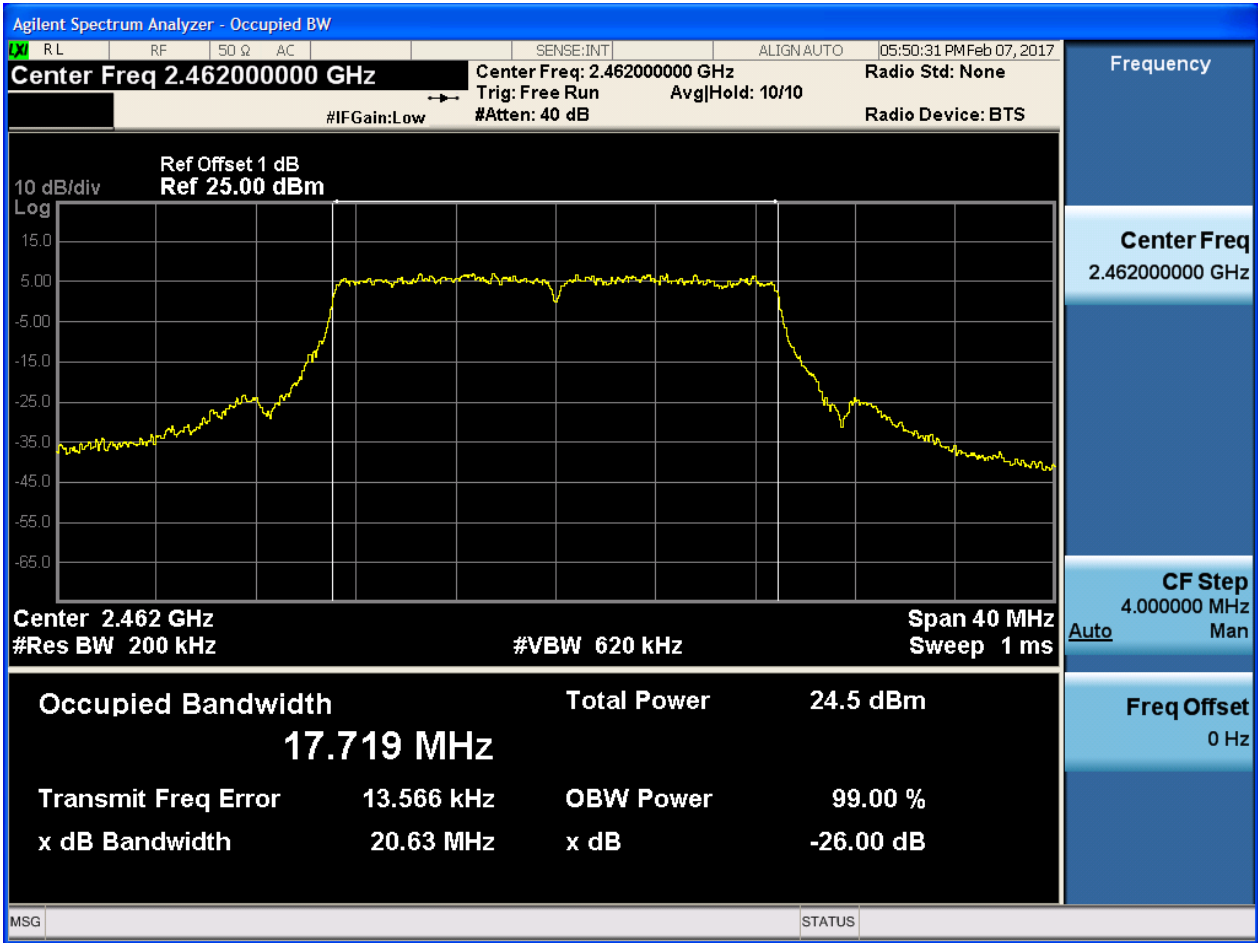


2.17 11N20\_H@Ant 1



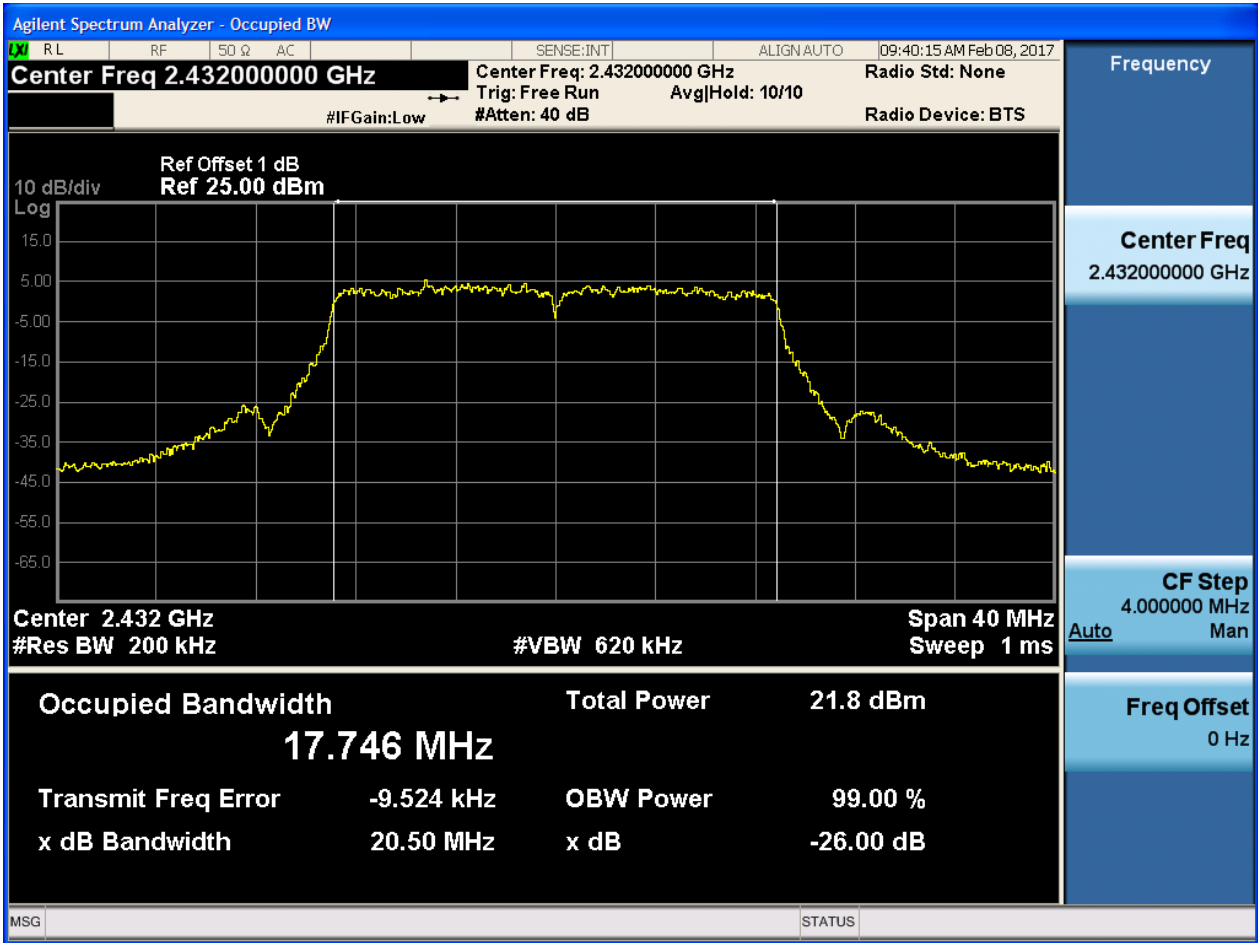


2.18 11N20\_H@Ant 2



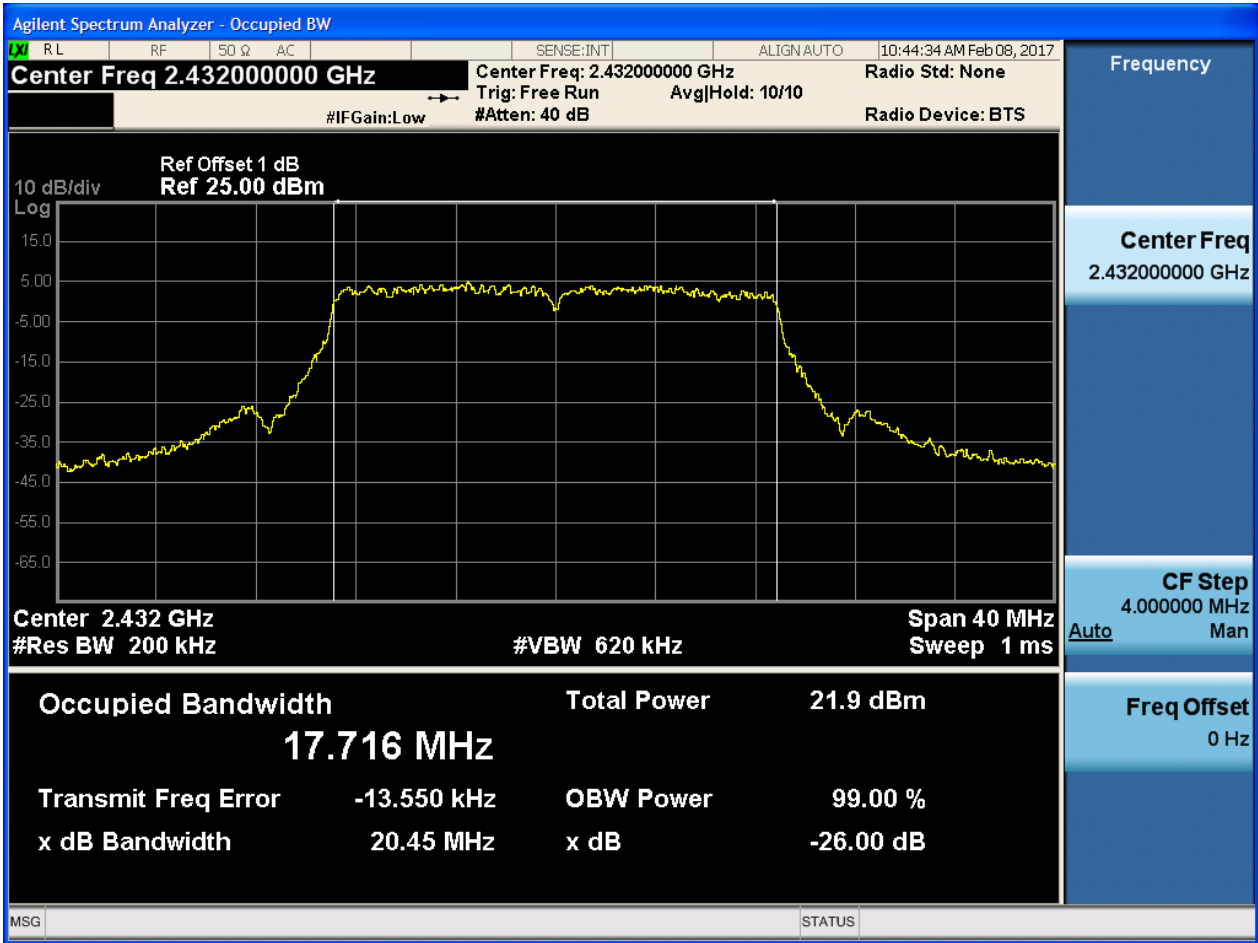


2.19 11N20m\_L@Ant 1



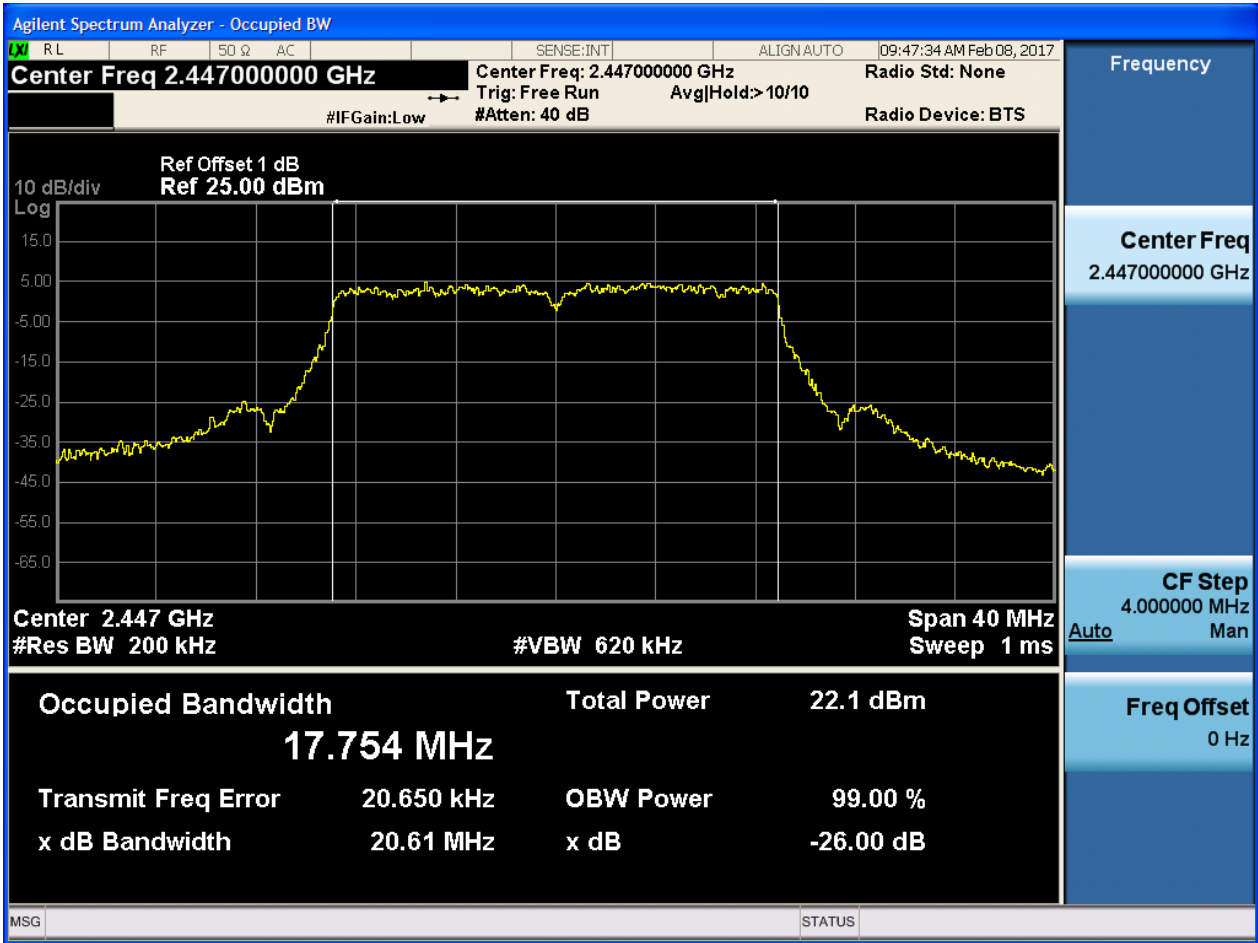


2.20 11N20m\_L@Ant 2



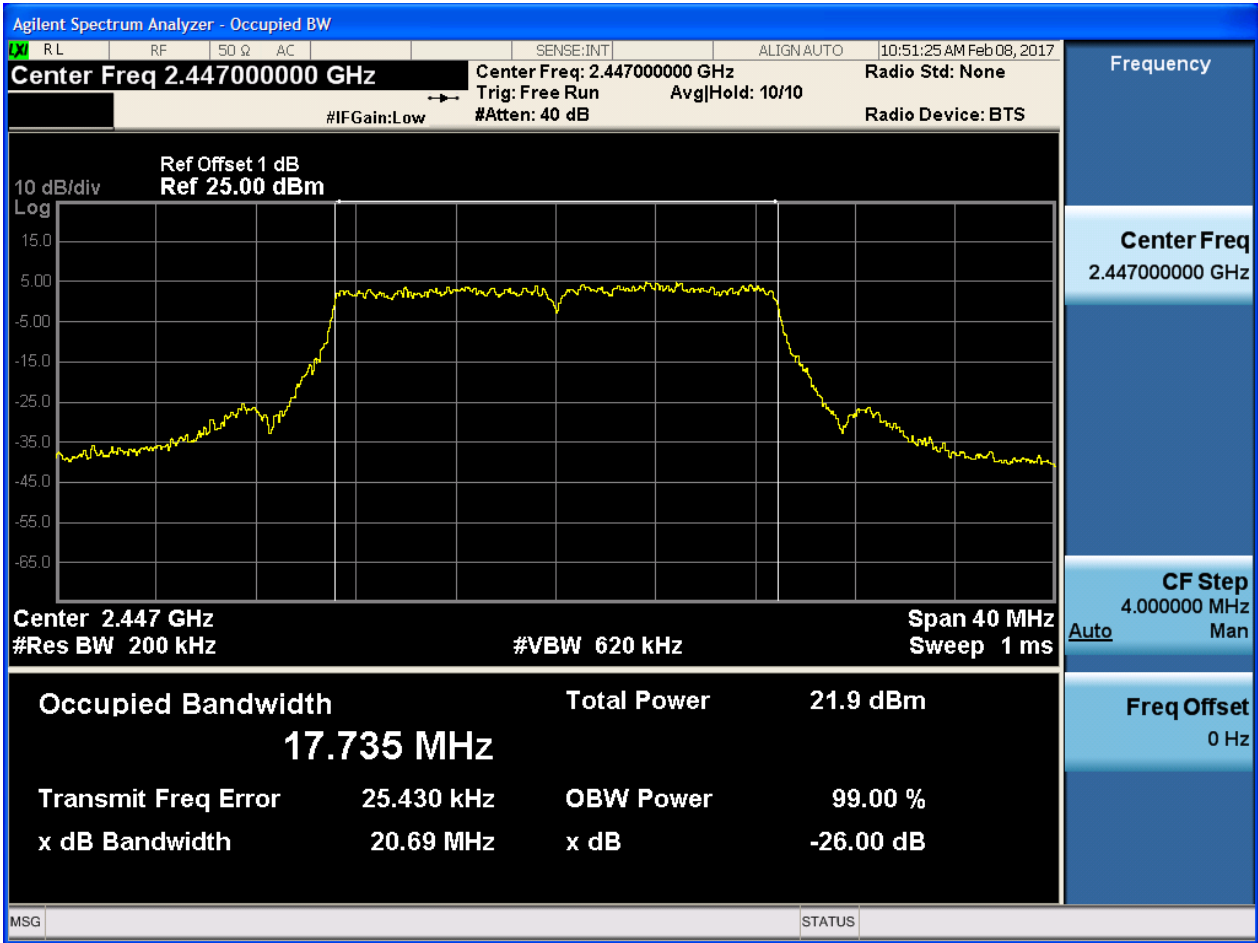


2.21 11N20m\_M@Ant 1



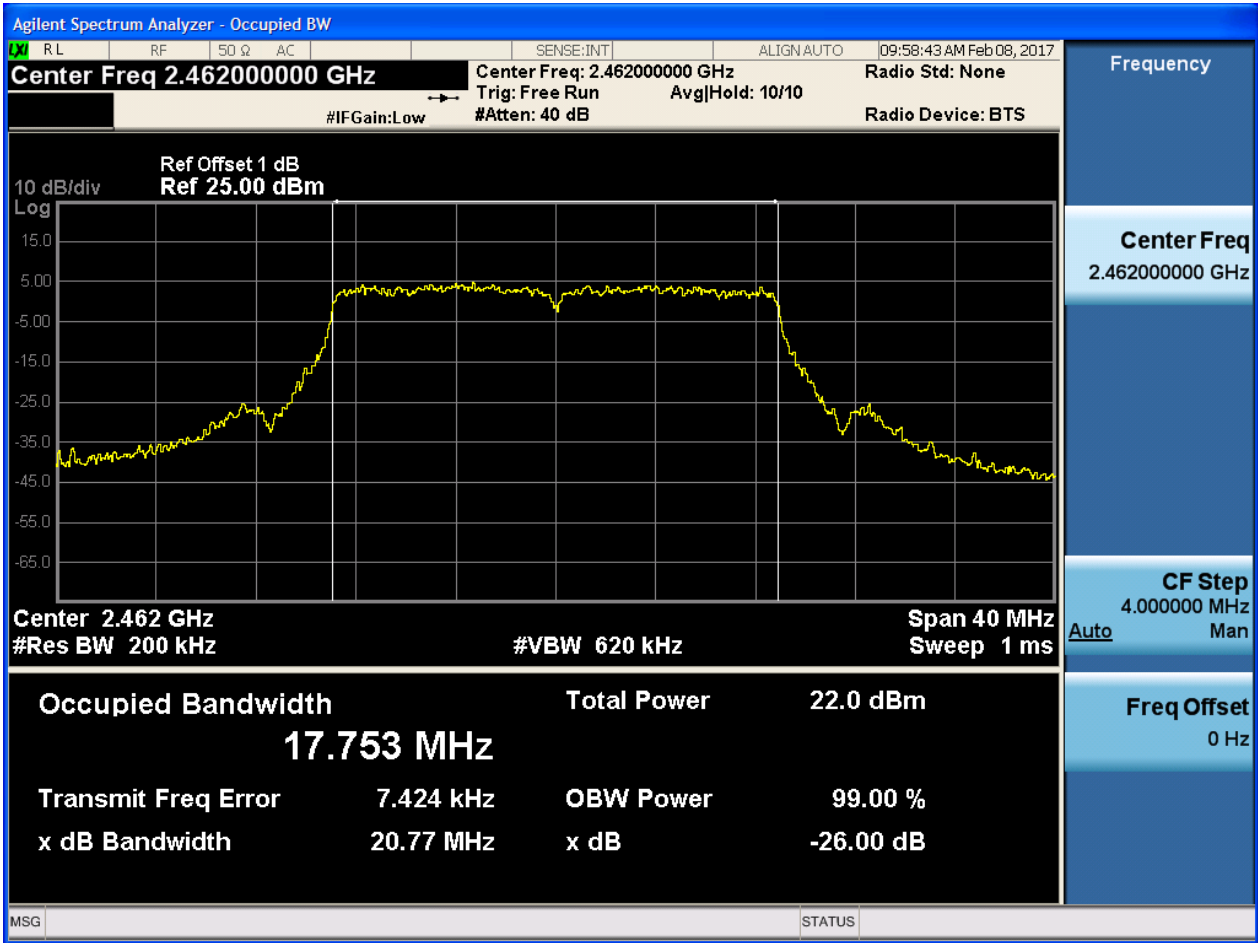


2.22 11N20m\_M@Ant 2





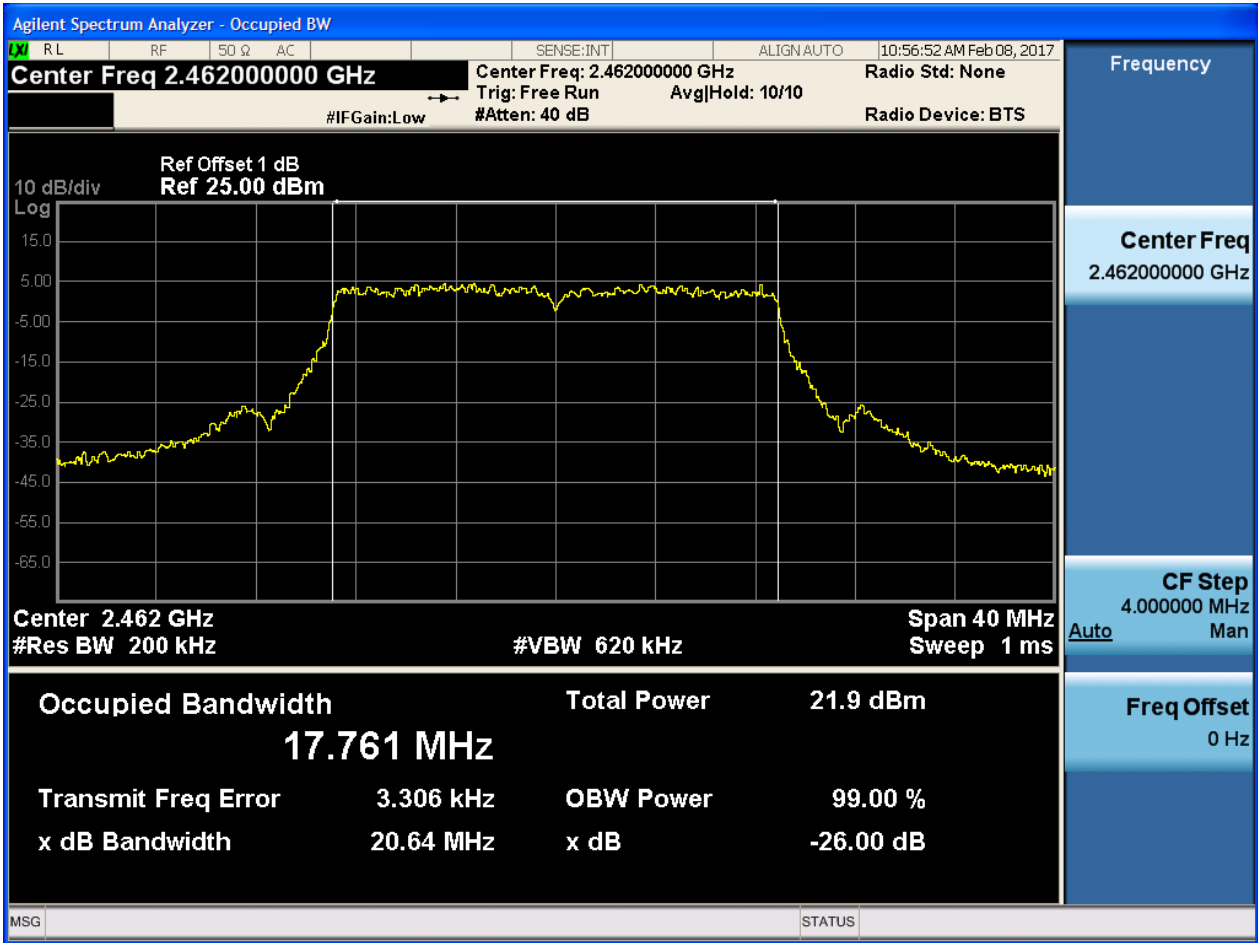
2.23 11N20m\_H@Ant 1





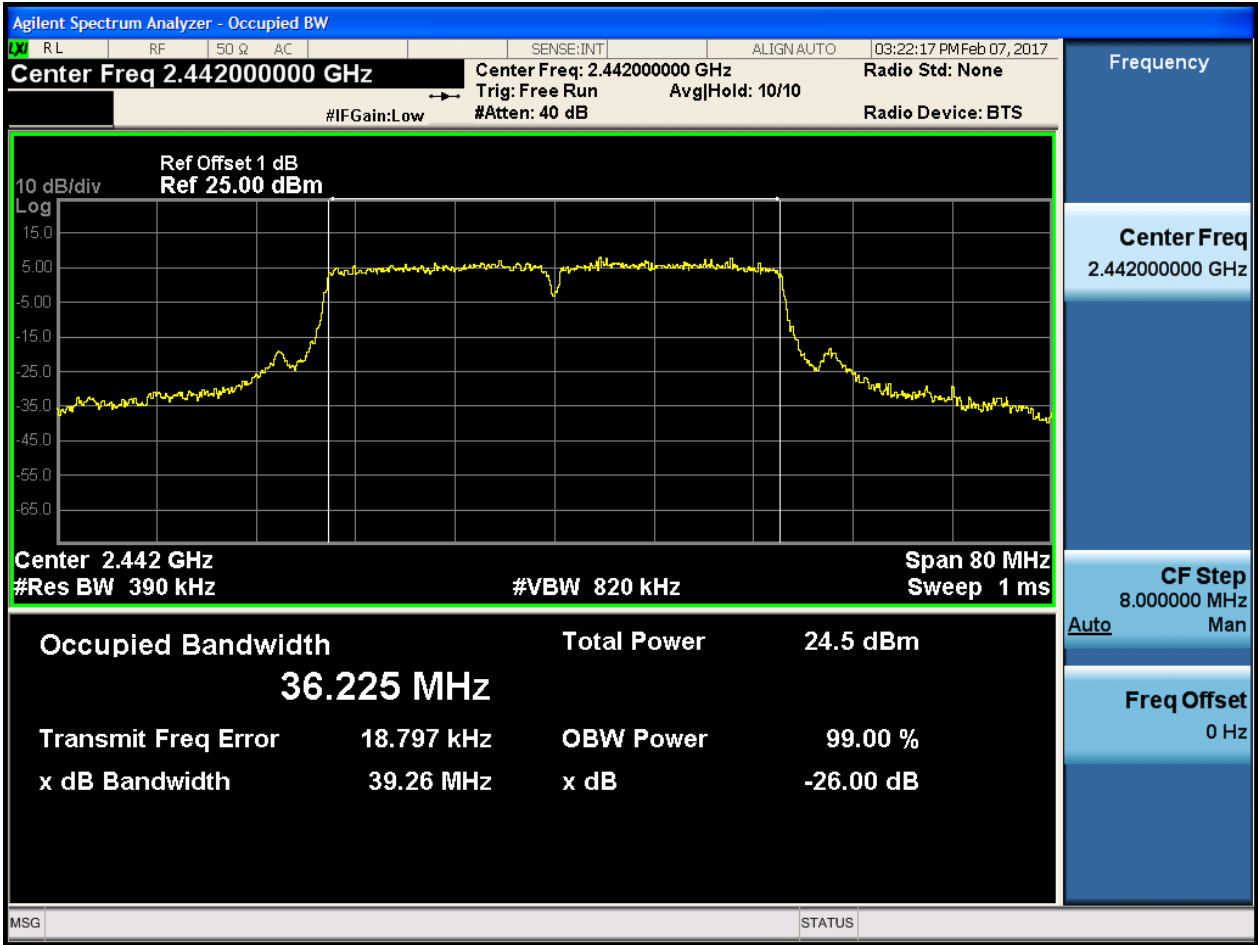


2.24 11N20m\_H@Ant 2



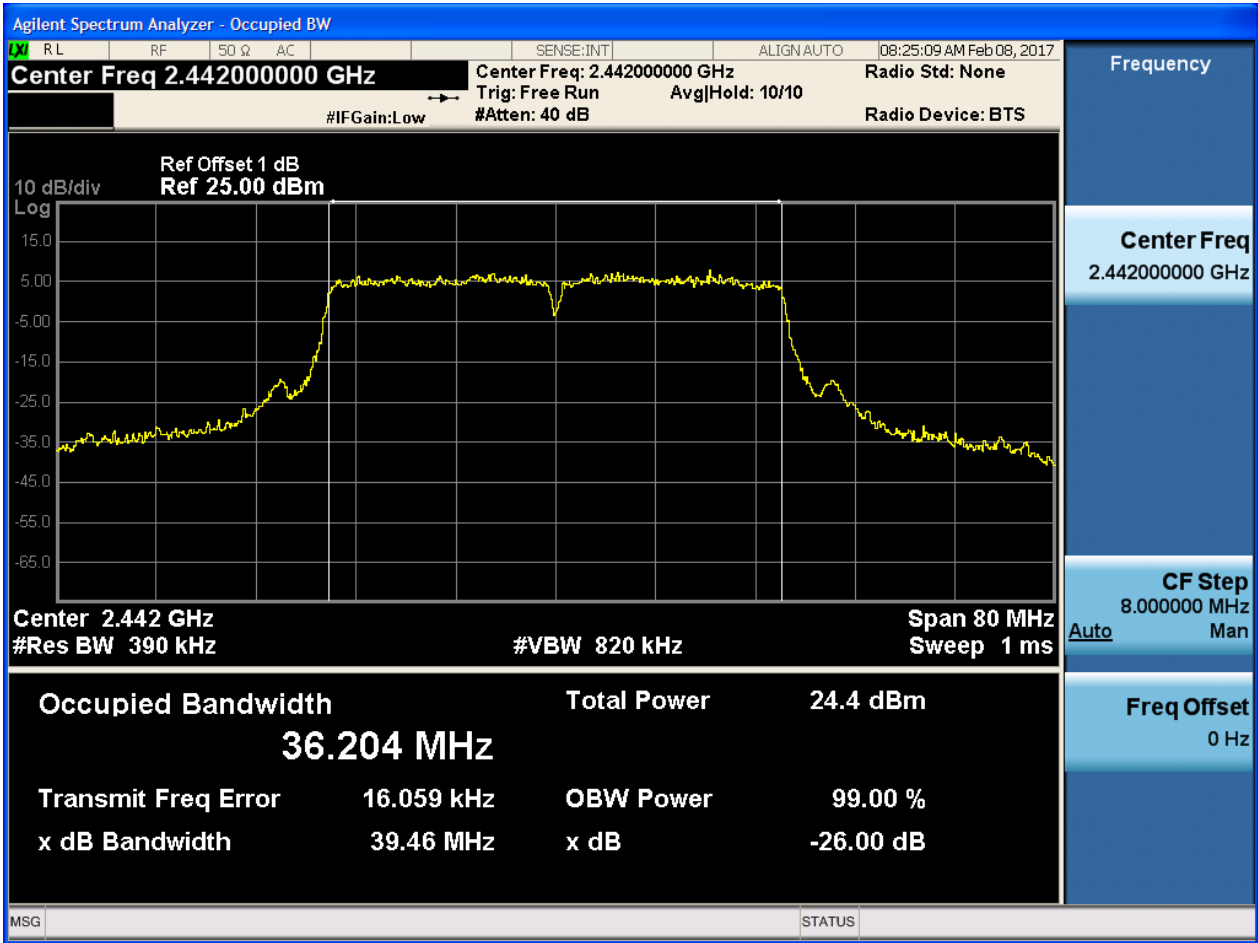


2.25 11N40\_L@Ant 1



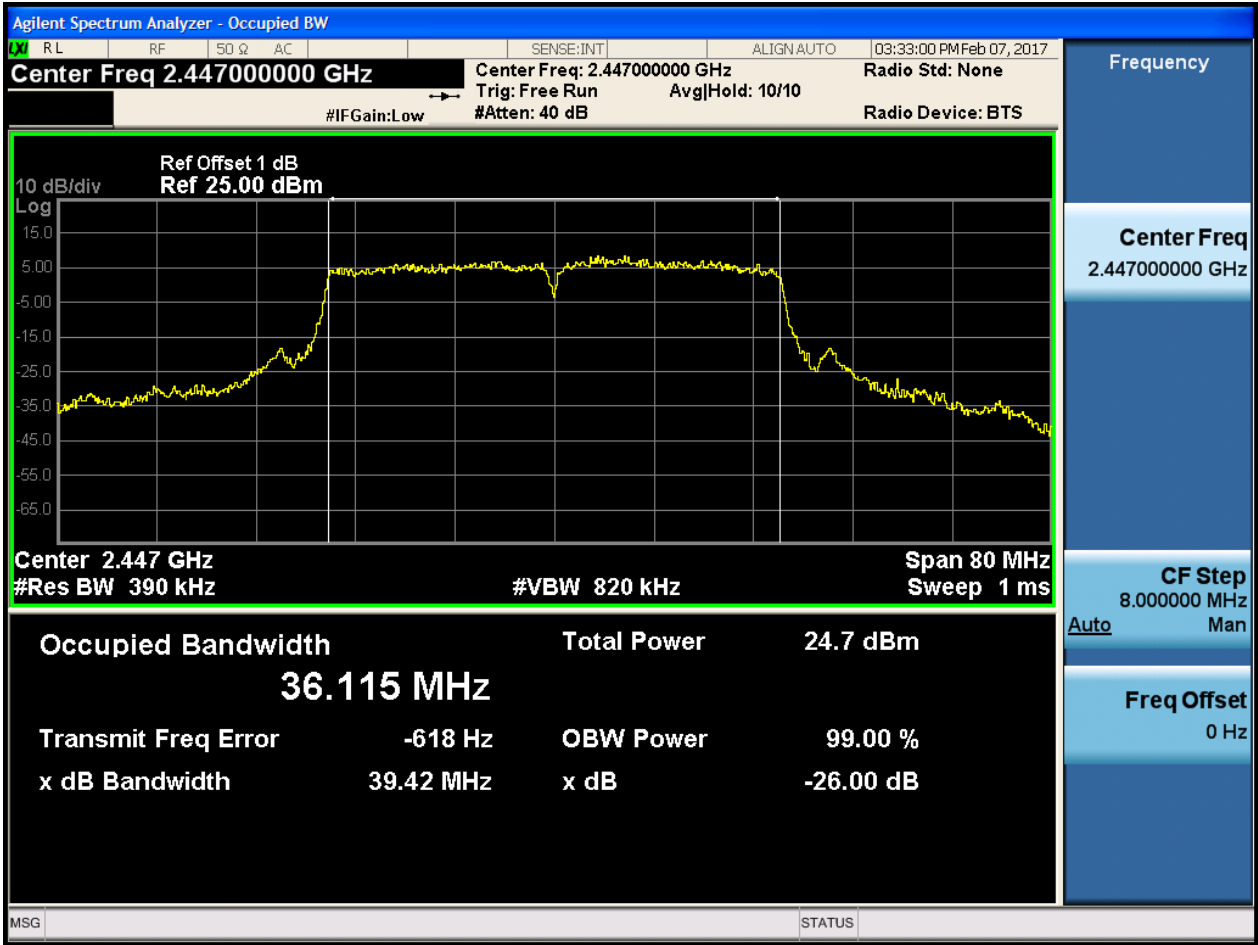


2.26 11N40\_L@Ant 2



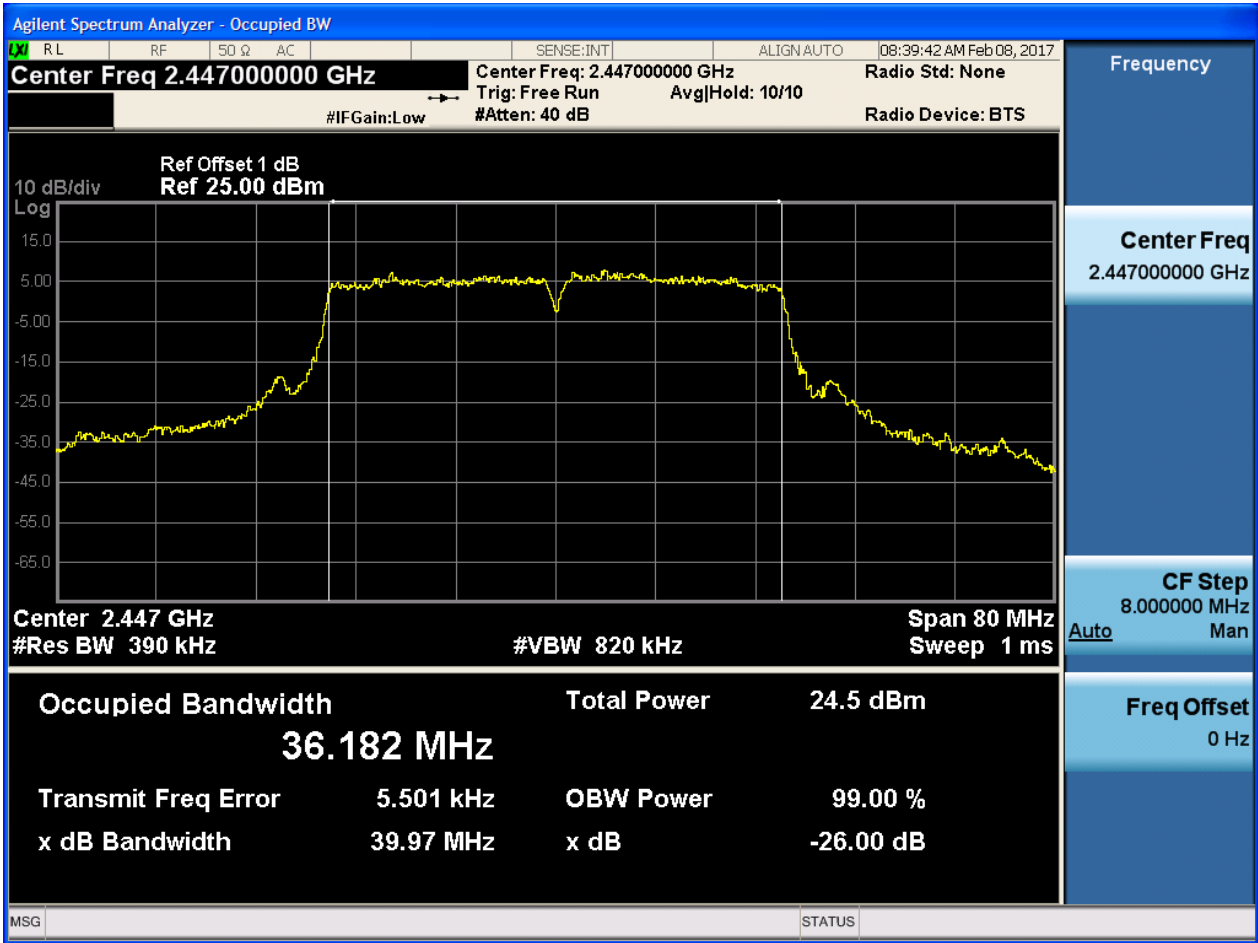


2.27 11N40\_M@Ant 1



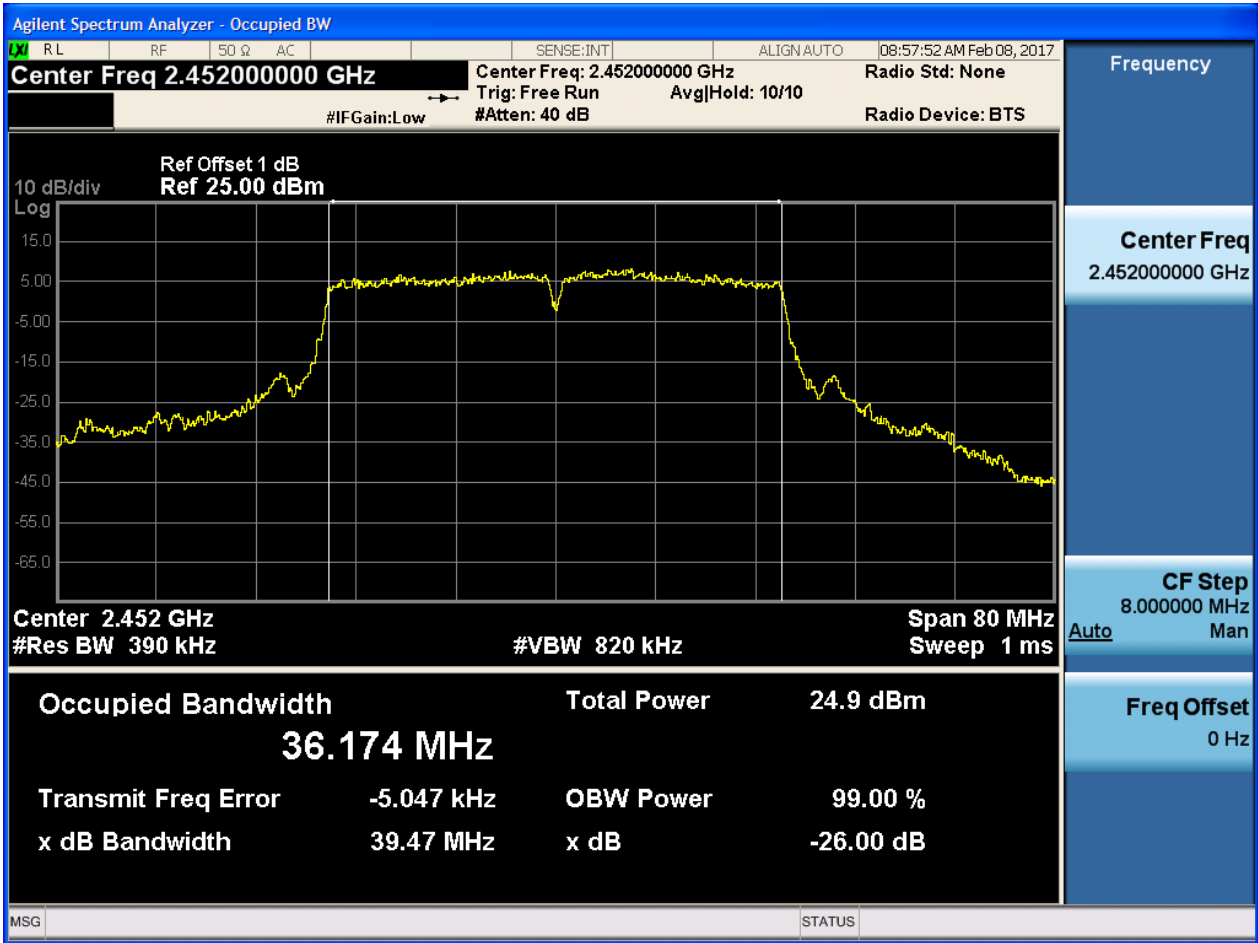


2.28 11N40\_M@Ant 2



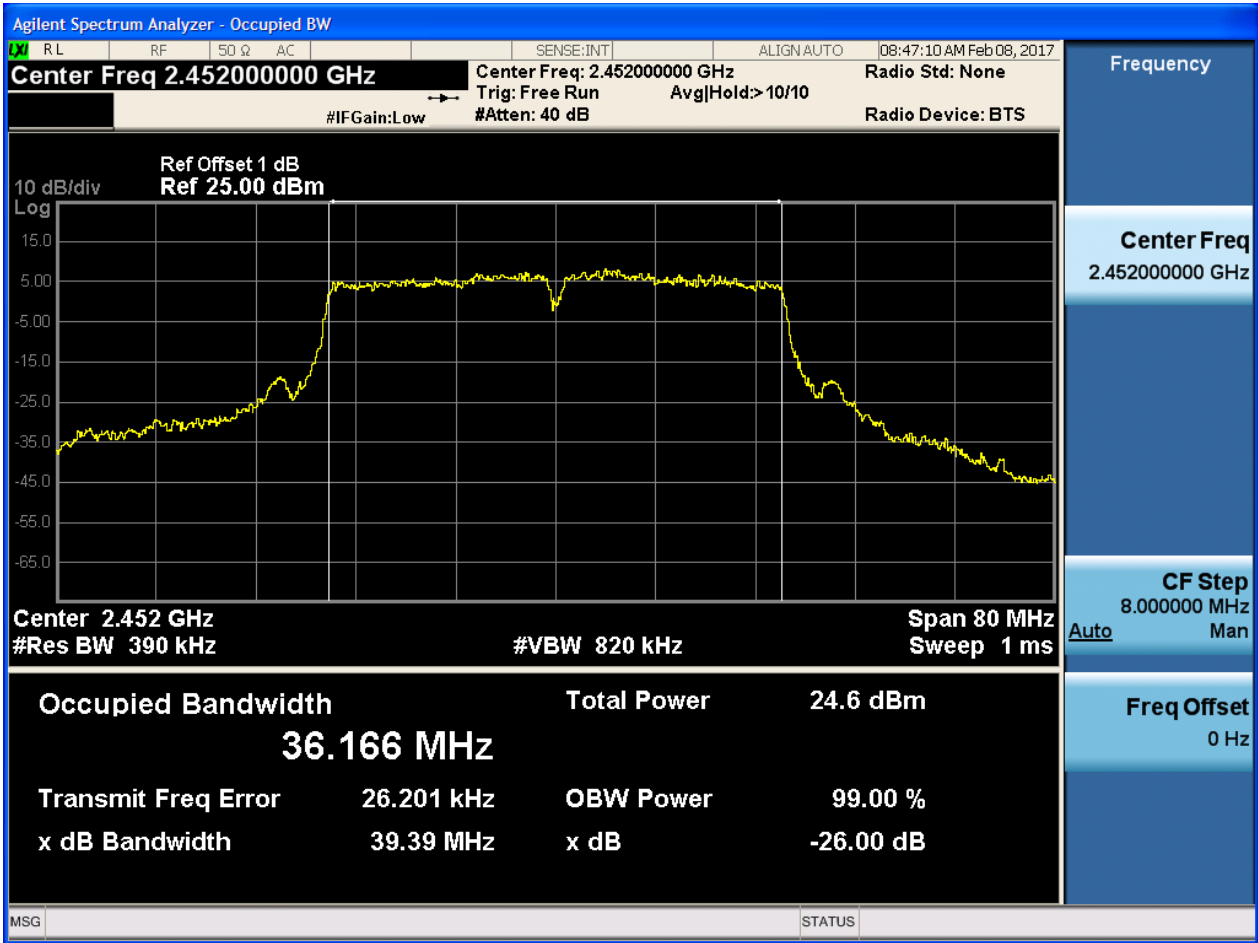


2.29 11N40\_H@Ant 1



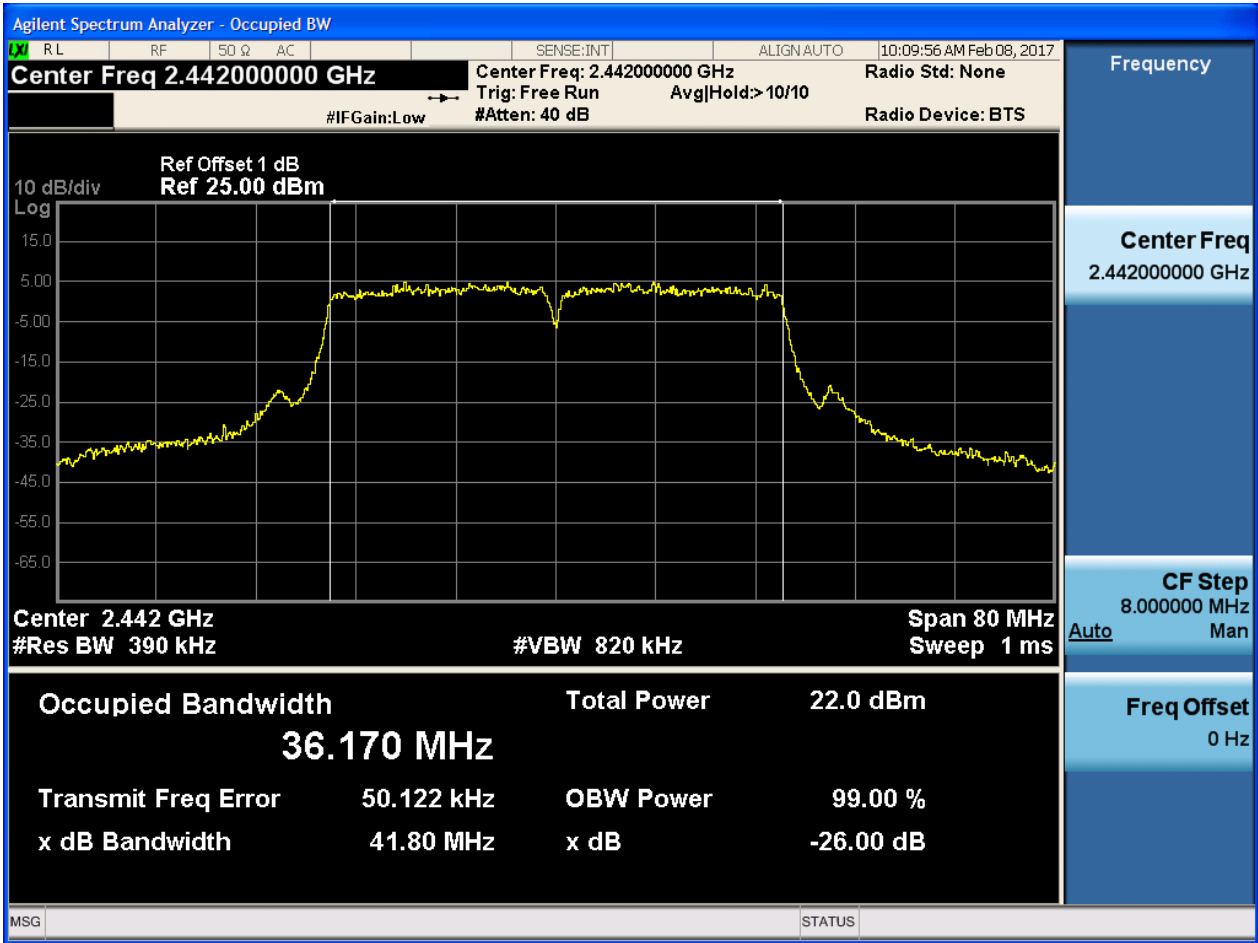


2.30 11N40\_H@Ant 2





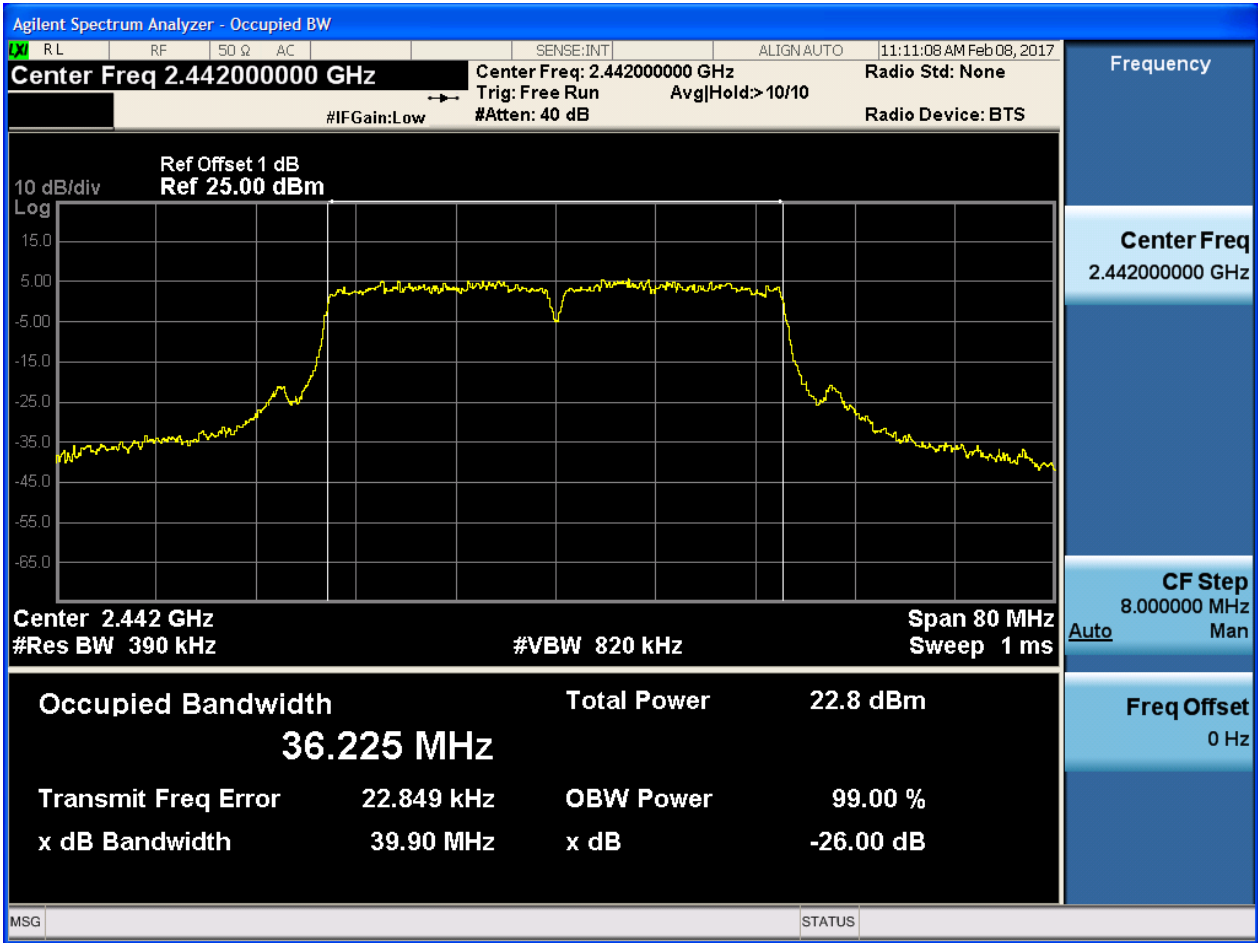
2.31 11N40m\_L@Ant 1





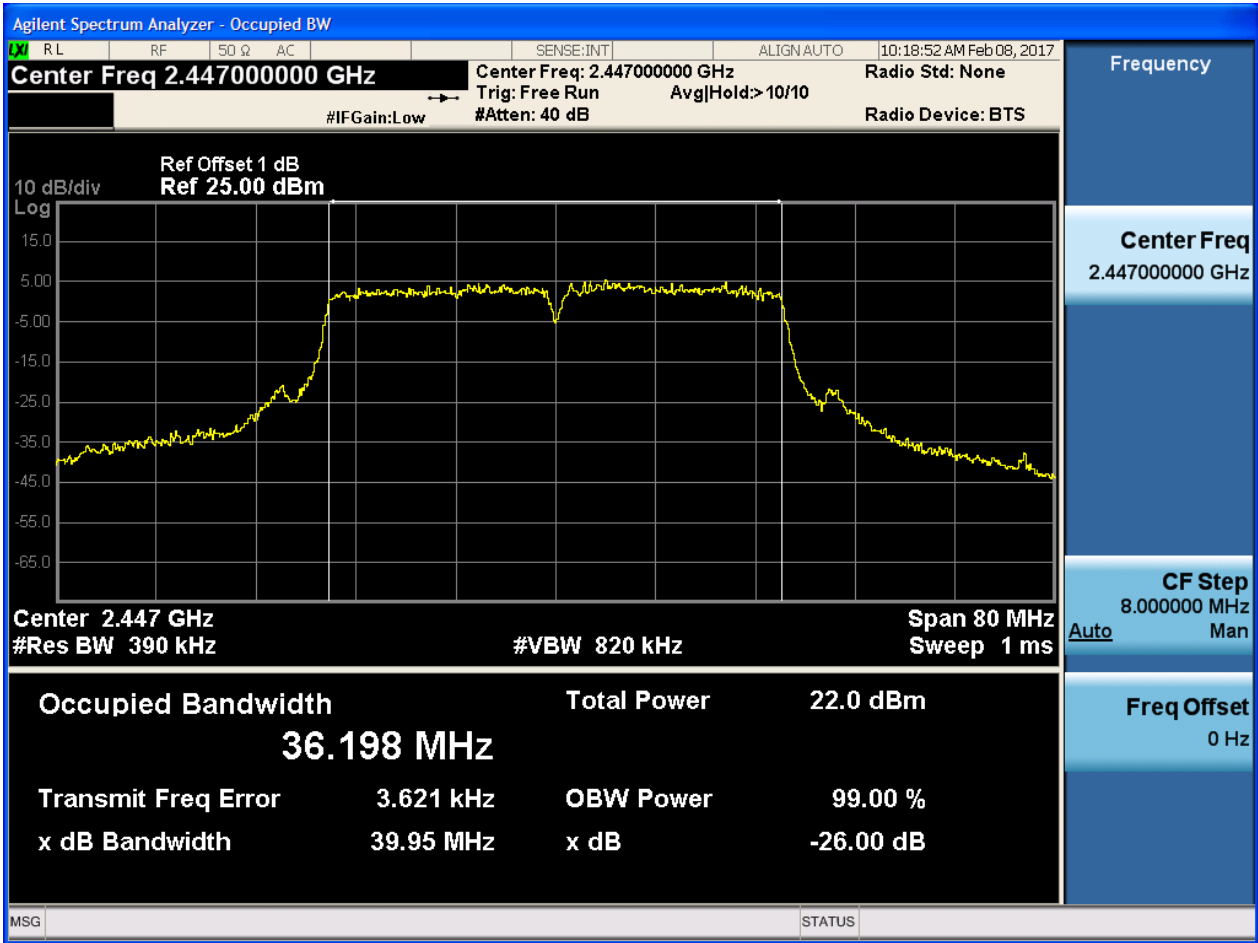


2.32 11N40m\_L@Ant 2



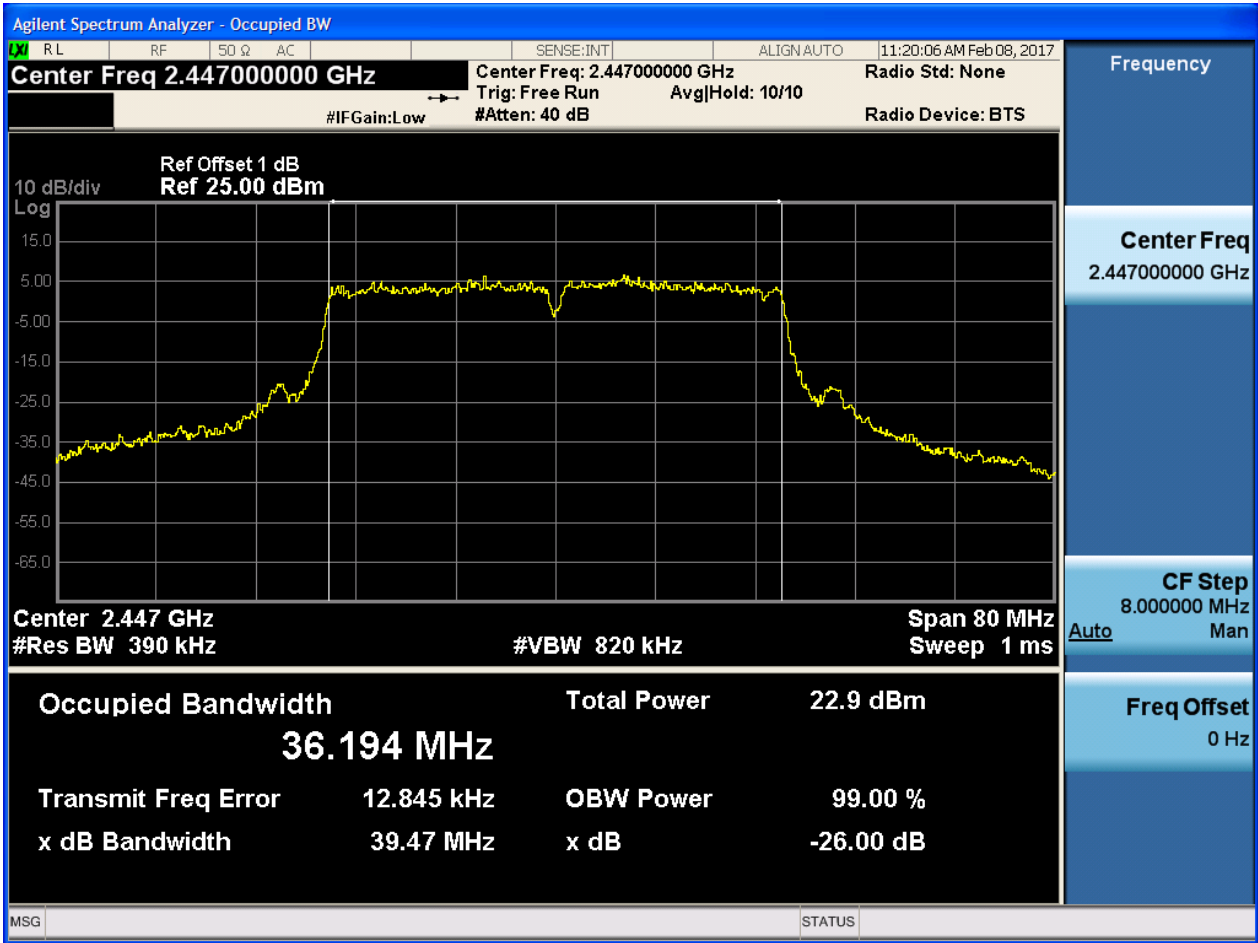


2.33 11N40m\_M@Ant 1



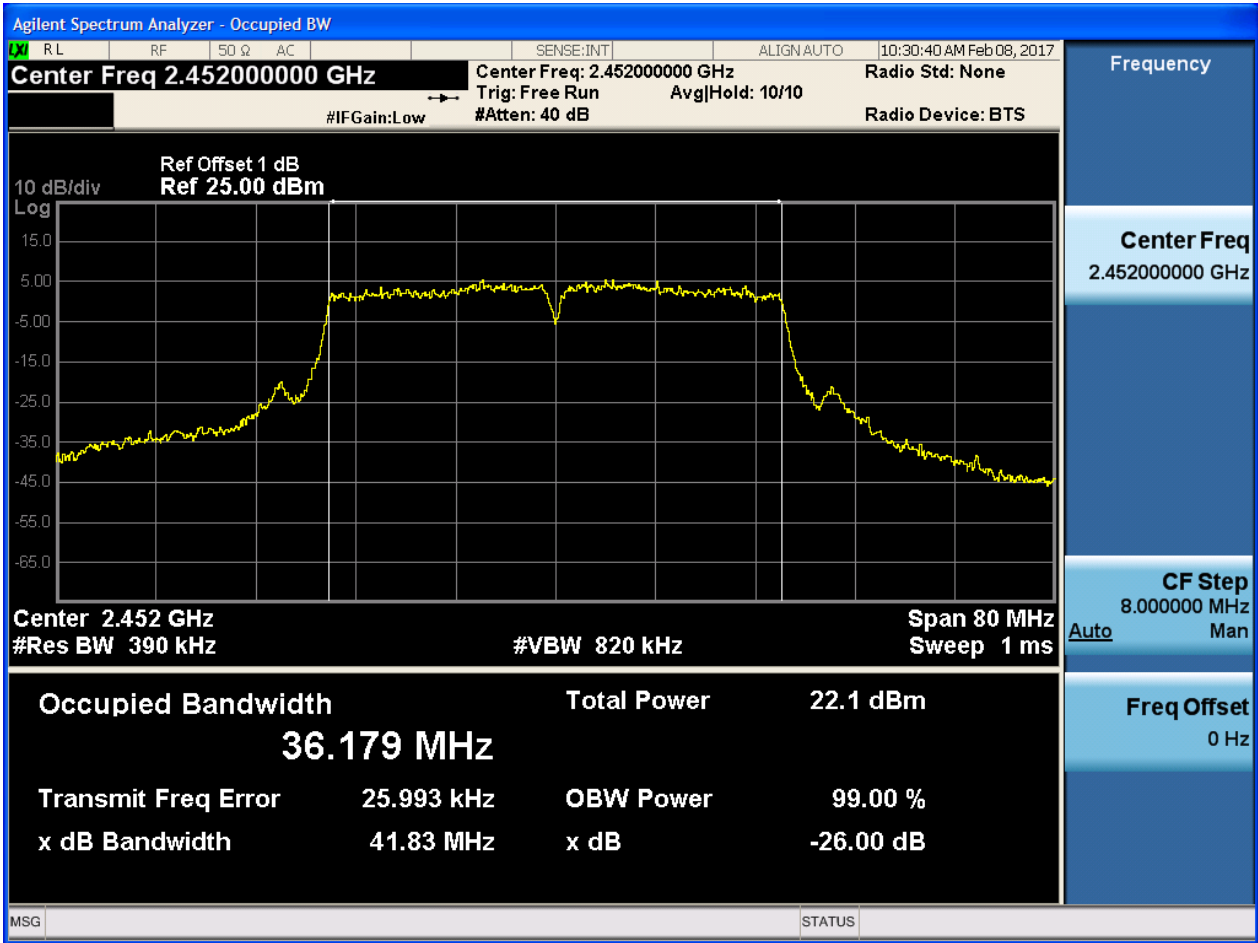


2.34 11N40m\_M@Ant 2



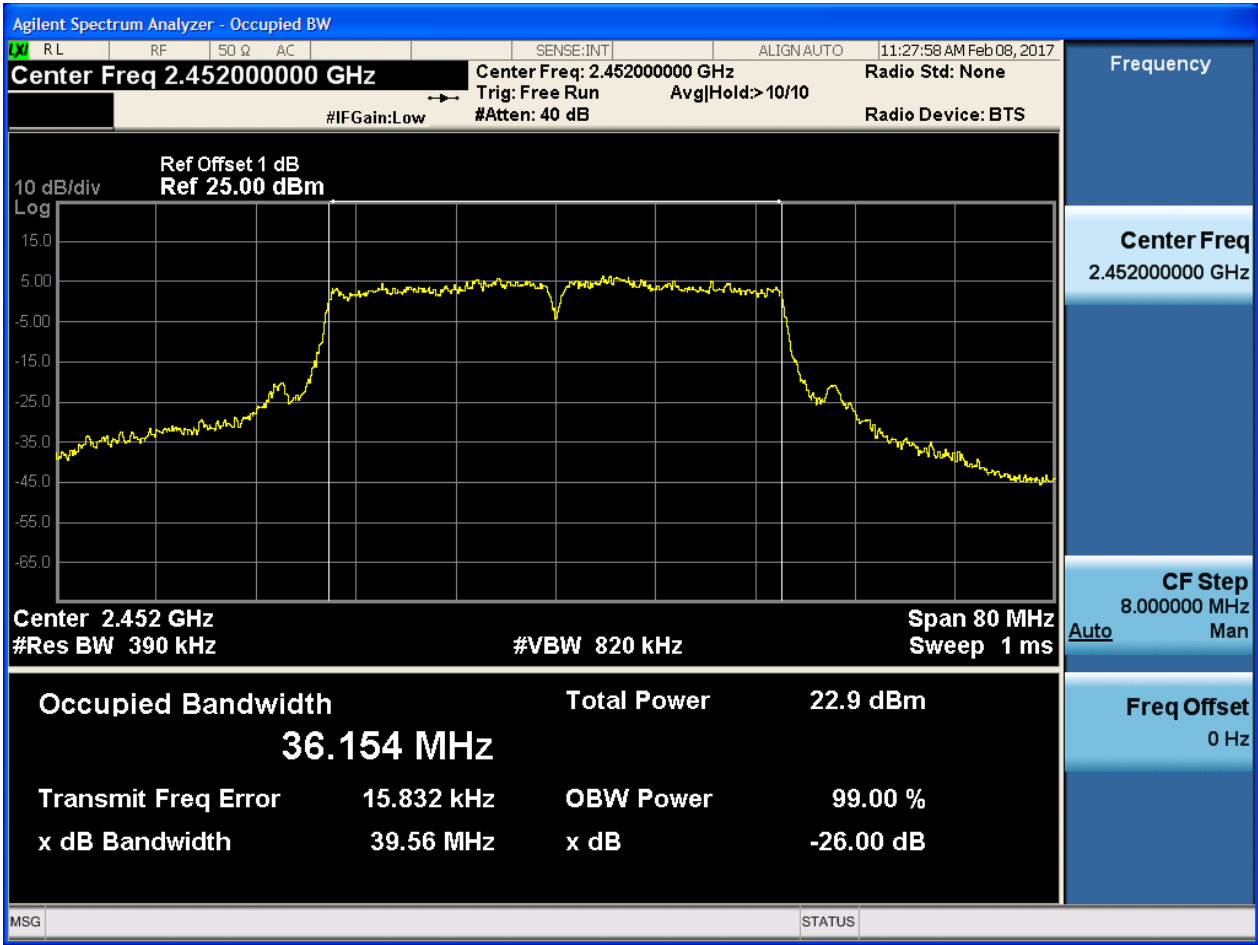


2.35 11N40m\_H@Ant 1





2.36 11N40m\_H@Ant 2





## Appendix C: Duty Cycle

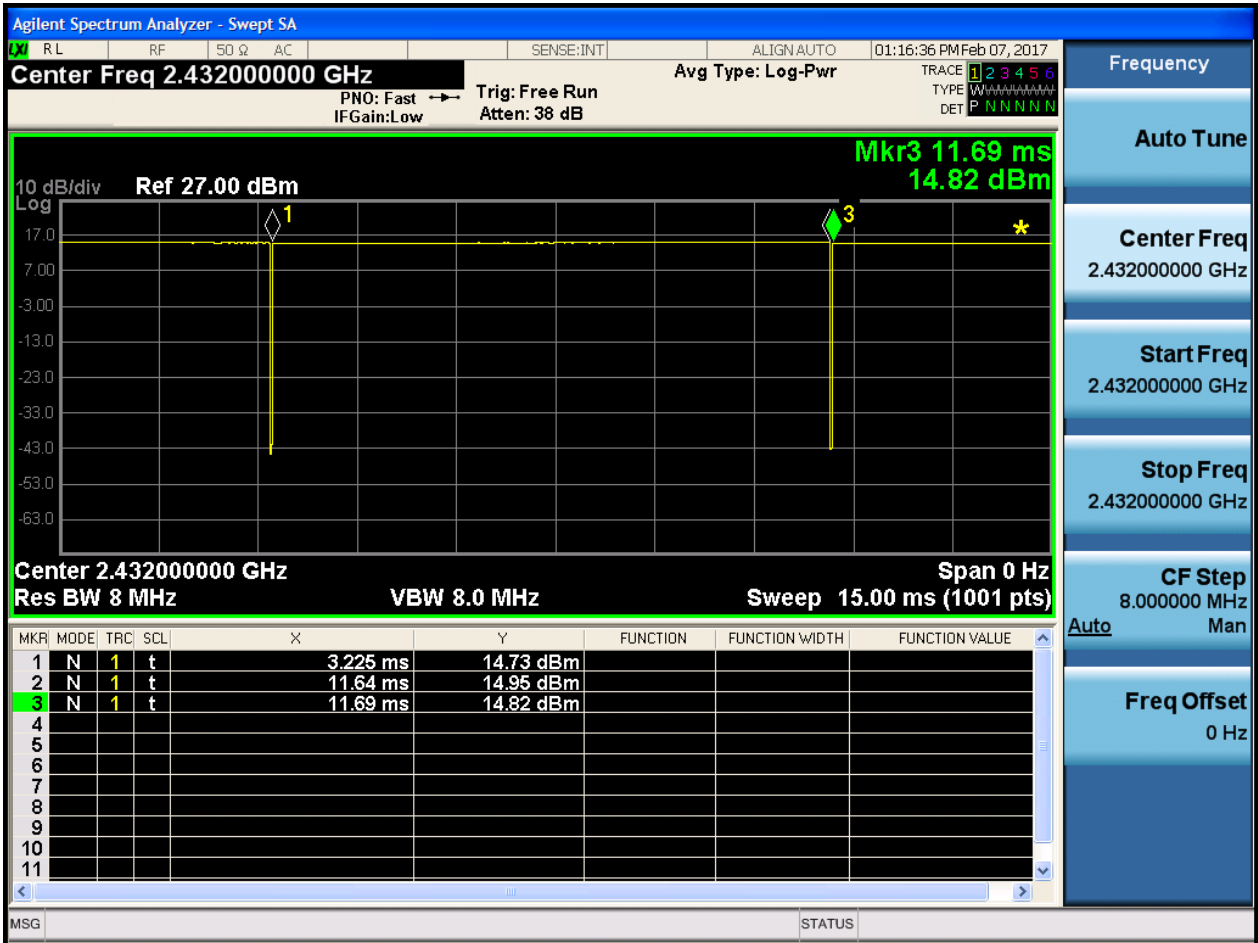
### Part I - Test Results

Test Mode	TX Freq. [MHz]	Ant	Duty cycle [%]
11B	CH5,CH8,CH11	Ant 1	99
11B	CH5,CH8,CH11	Ant 2	99
11G	CH5,CH8,CH11	Ant 1	96.5
11G	CH5,CH8,CH11	Ant 2	96.5
11N20SISO	CH5,CH8,CH11	Ant 1	76
11N20SISO	CH5,CH8,CH11	Ant 2	76
11N20MIMO	CH5,CH8,CH11	Ant 1	67
11N20MIMO	CH5,CH8,CH11	Ant 2	67
11N40SISO	CH7,CH8,CH9	Ant 1	64.5
11N40SISO	CH7,CH8,CH9	Ant 2	64.5
11N40MIMO	CH7,CH8,CH9	Ant 1	60
11N40MIMO	CH7,CH8,CH9	Ant 2	60



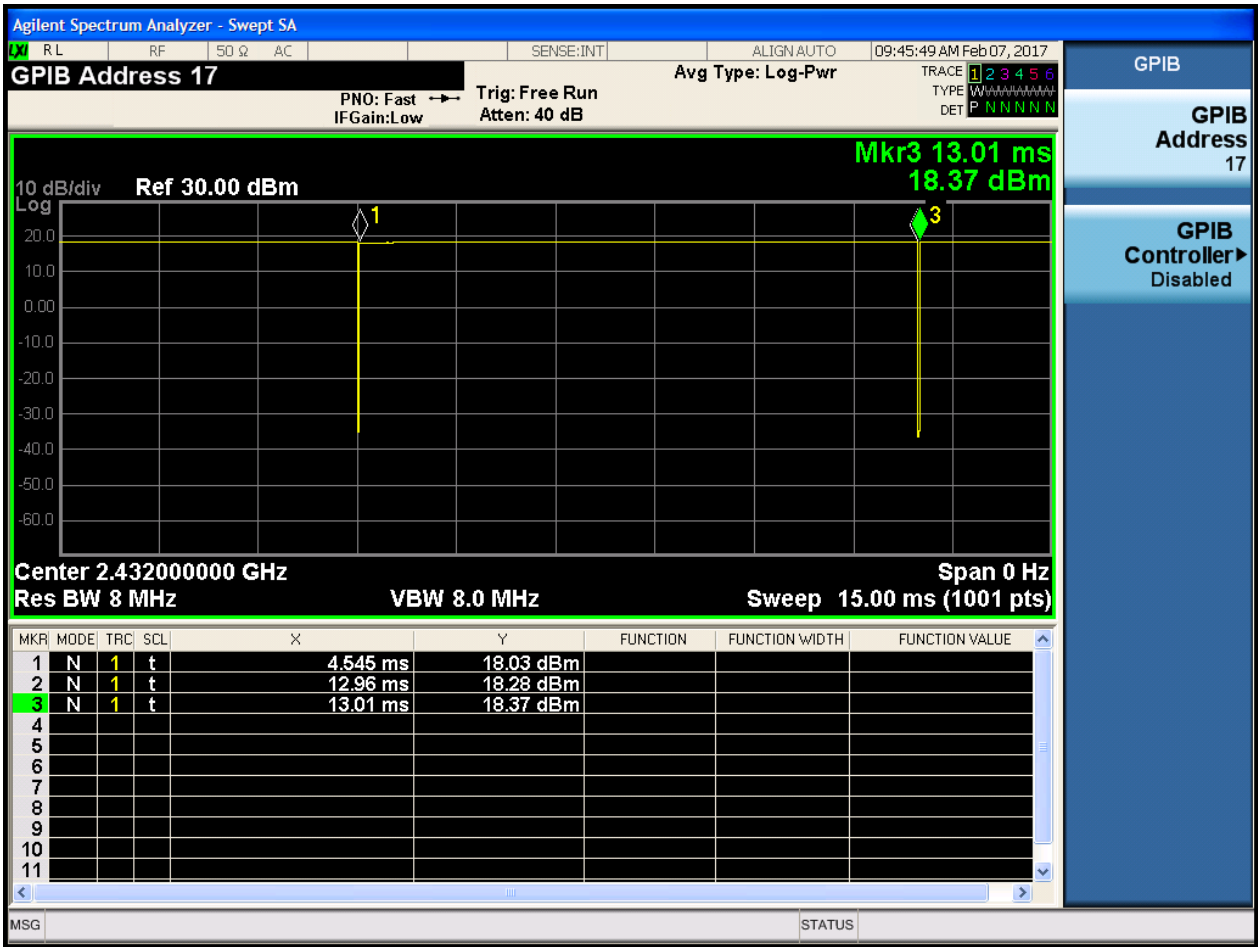
### Part II - Test Plots

#### 2.1 11B\_ANT1





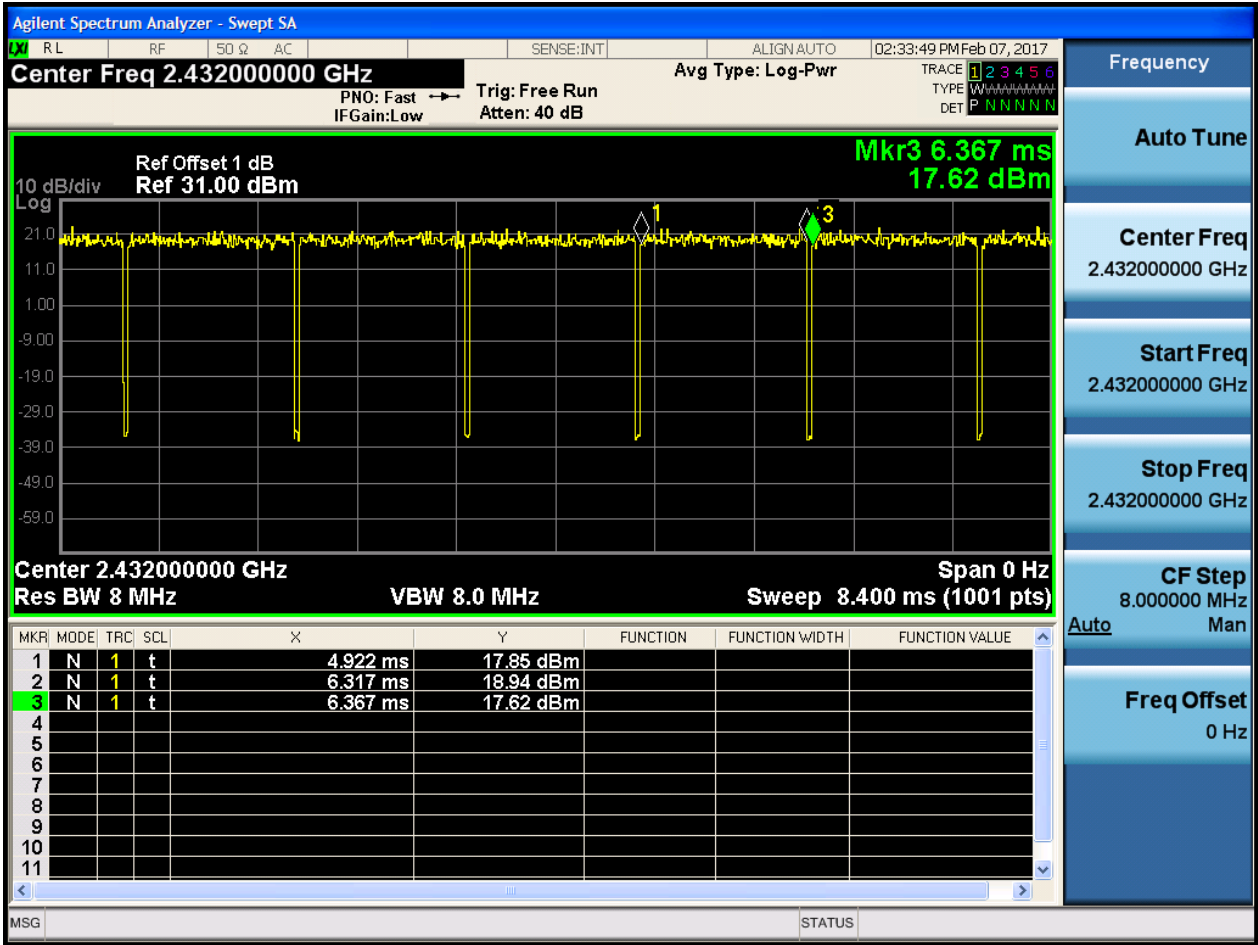
### 2.2 11B\_ANT2





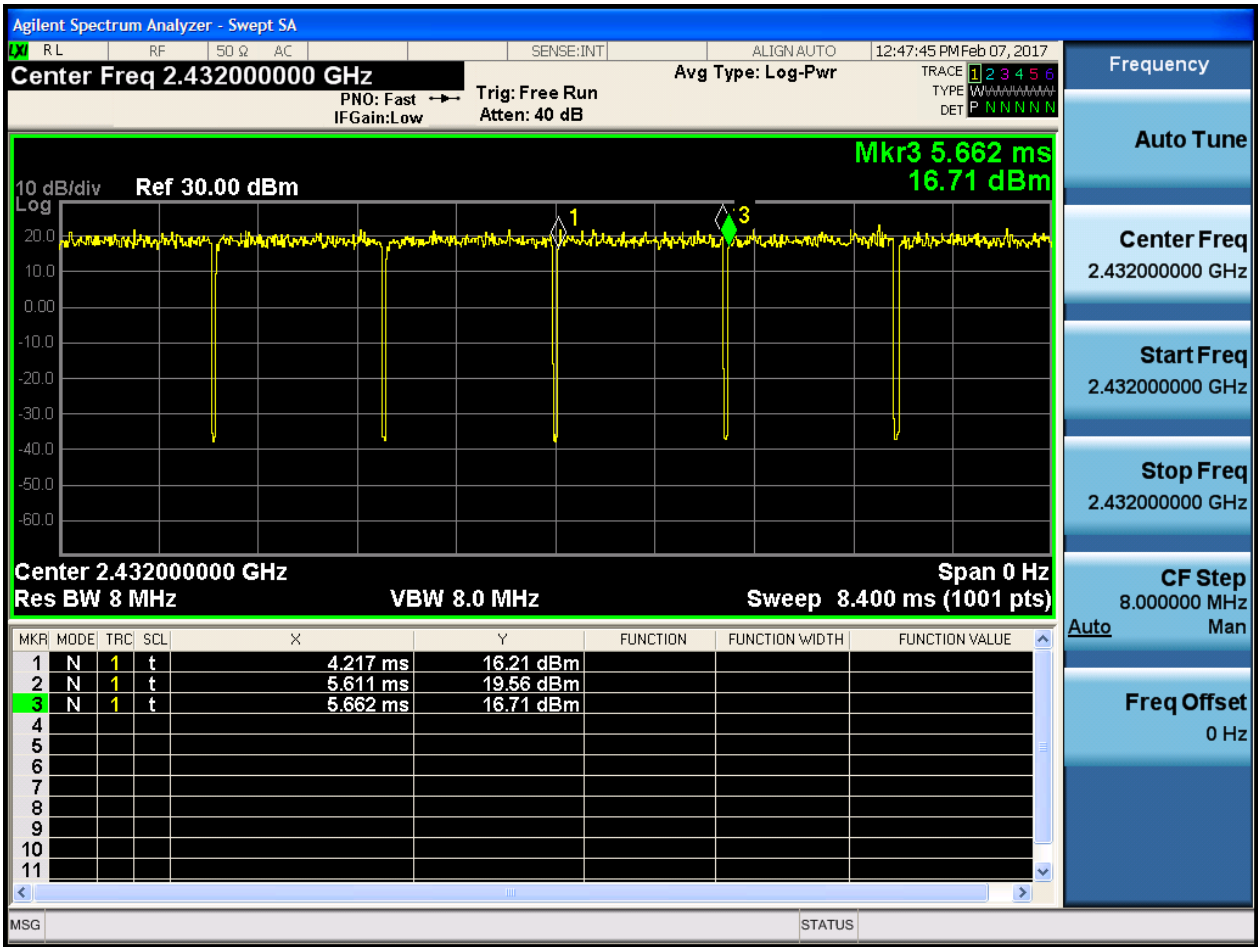


### 2.3 11G\_ANT1



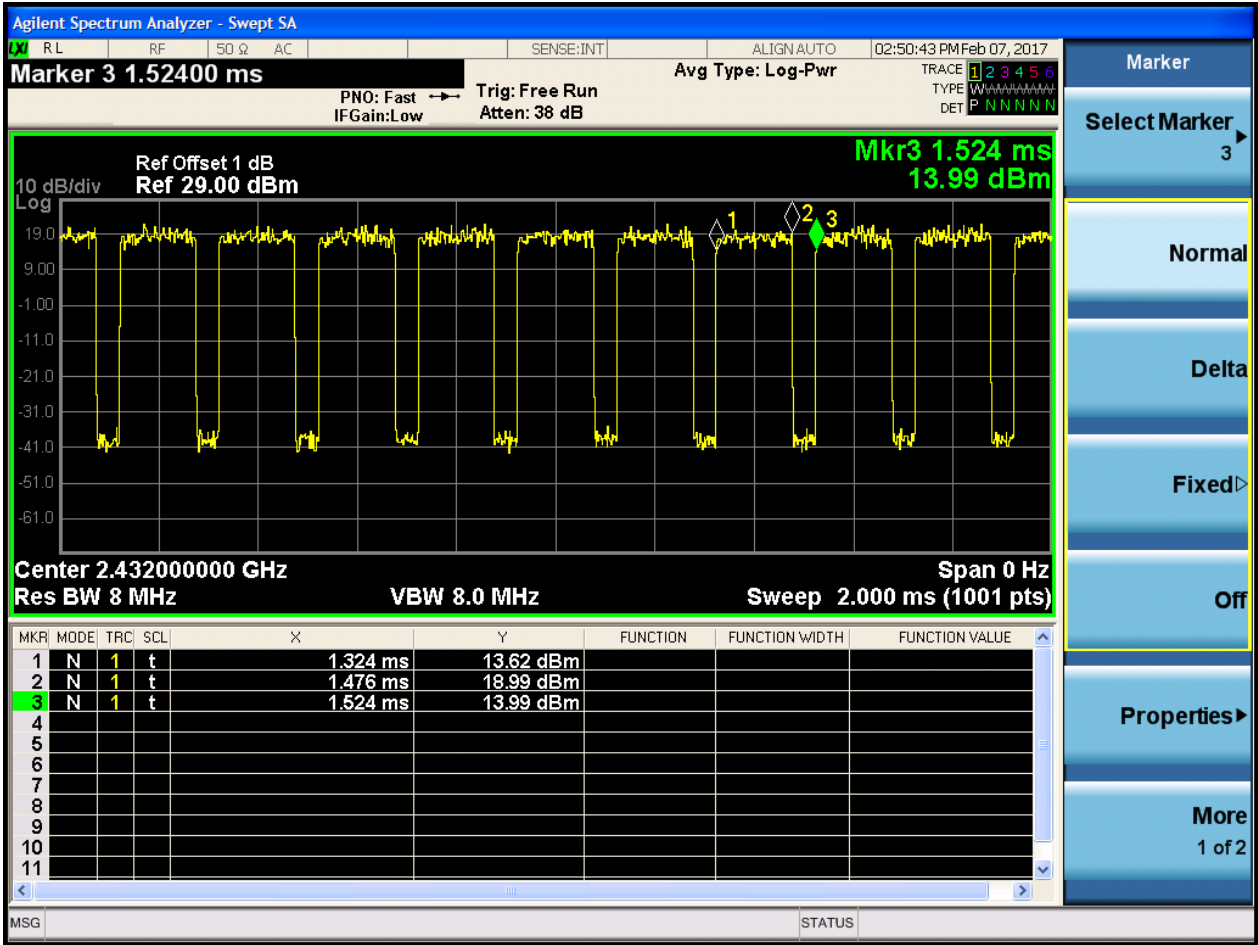


2.4 11G\_ANT2



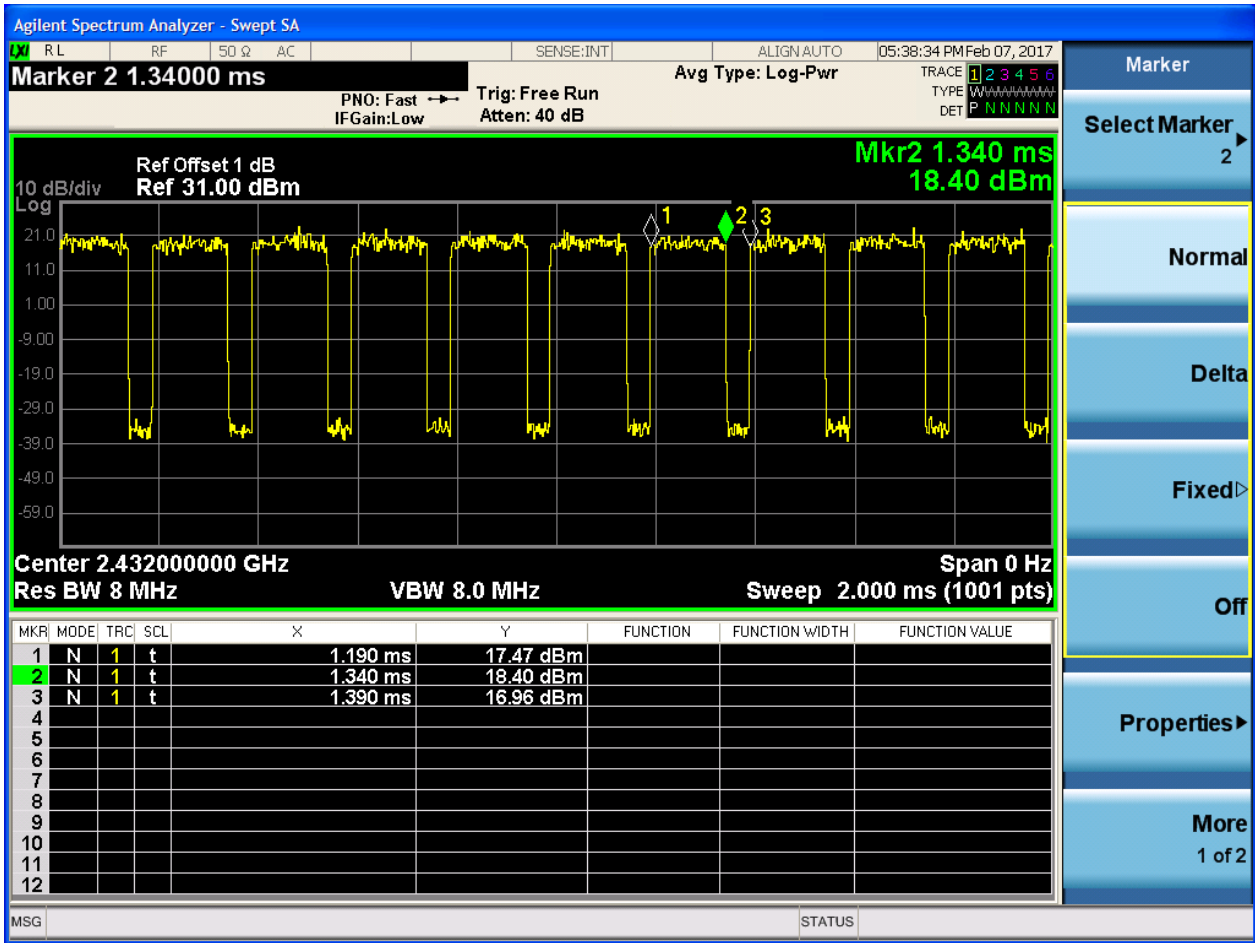


### 2.5 11N20SISO\_ANT1



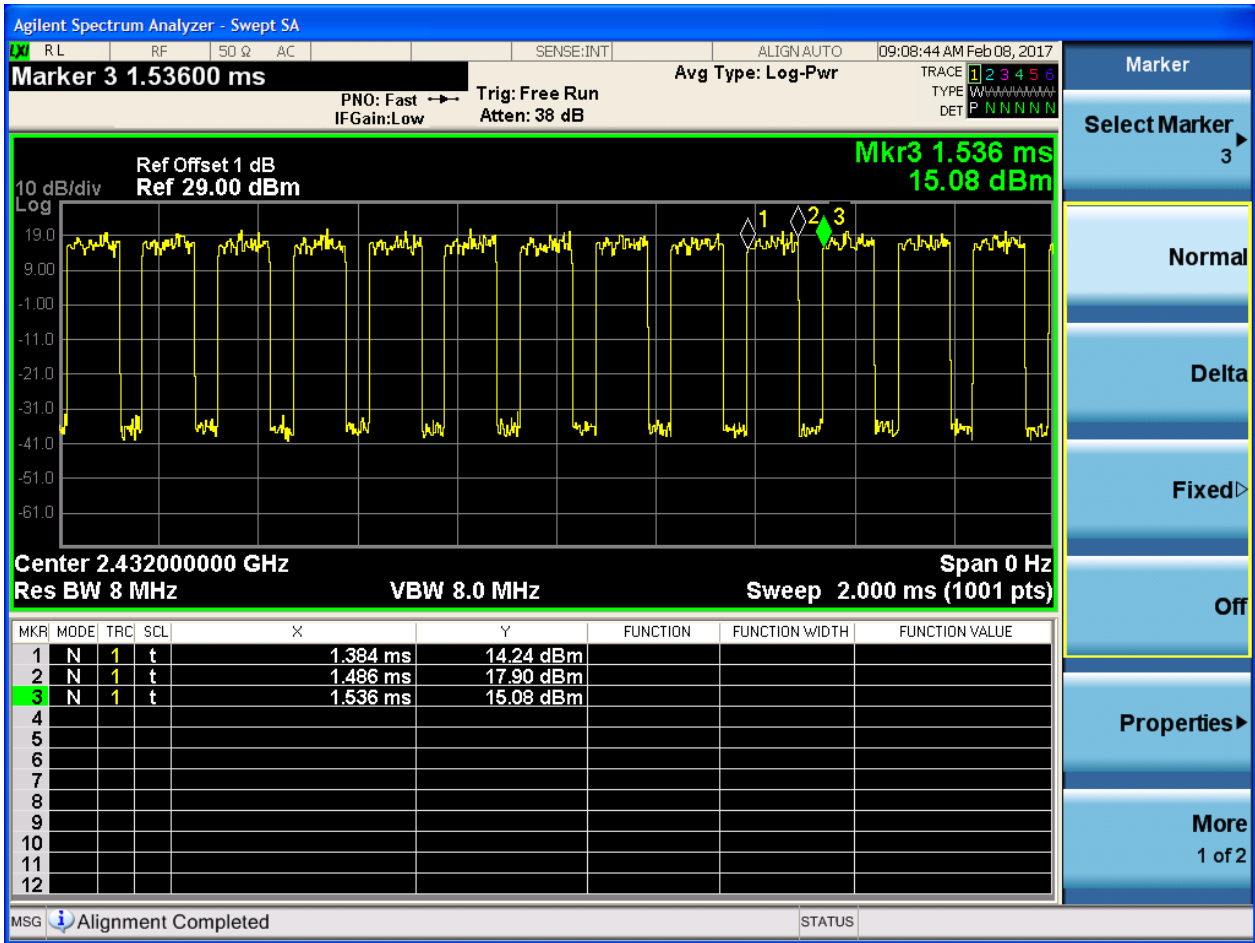


### 2.6 11N20SISO\_ANT2



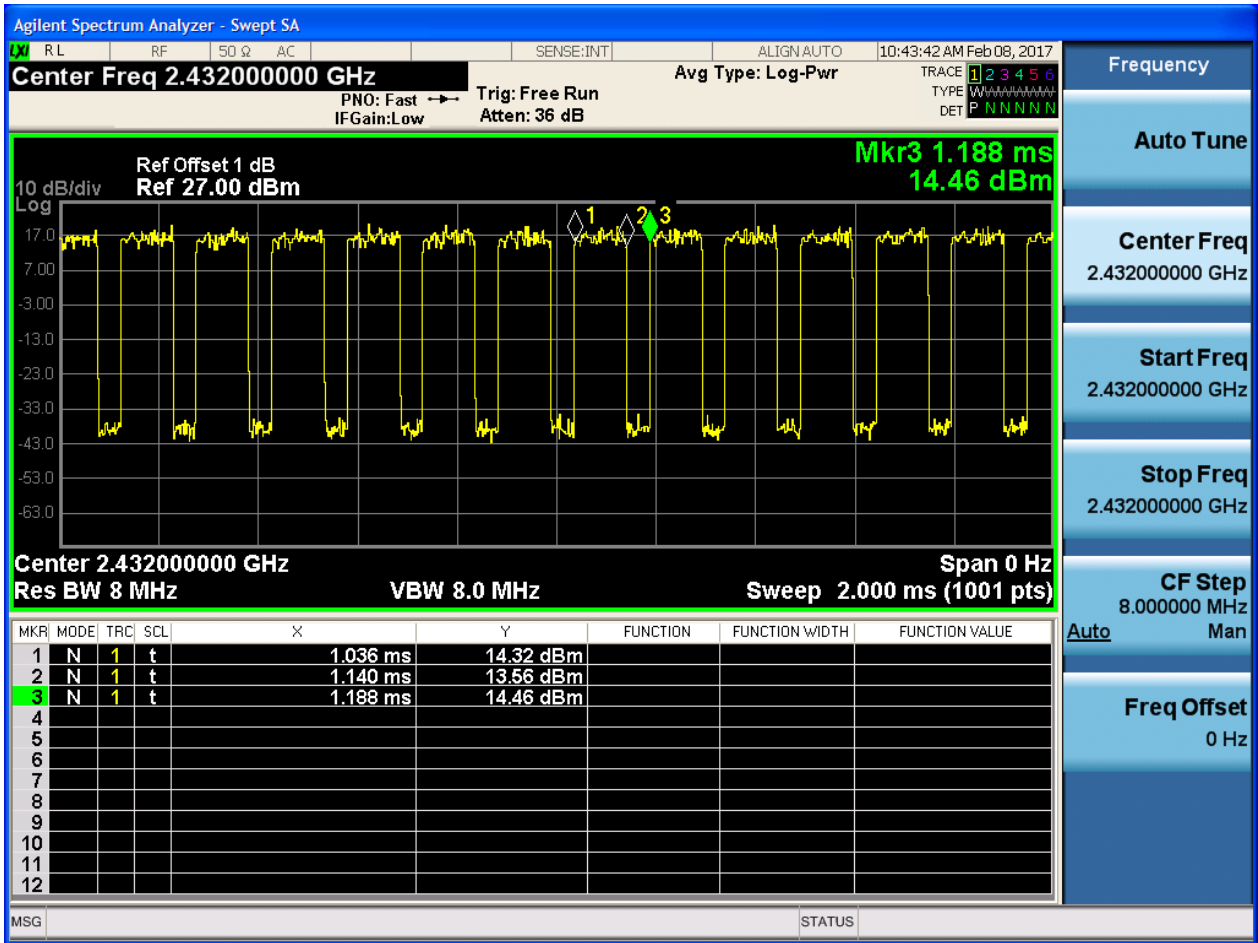


### 2.7 11N20MIMO\_ANT1



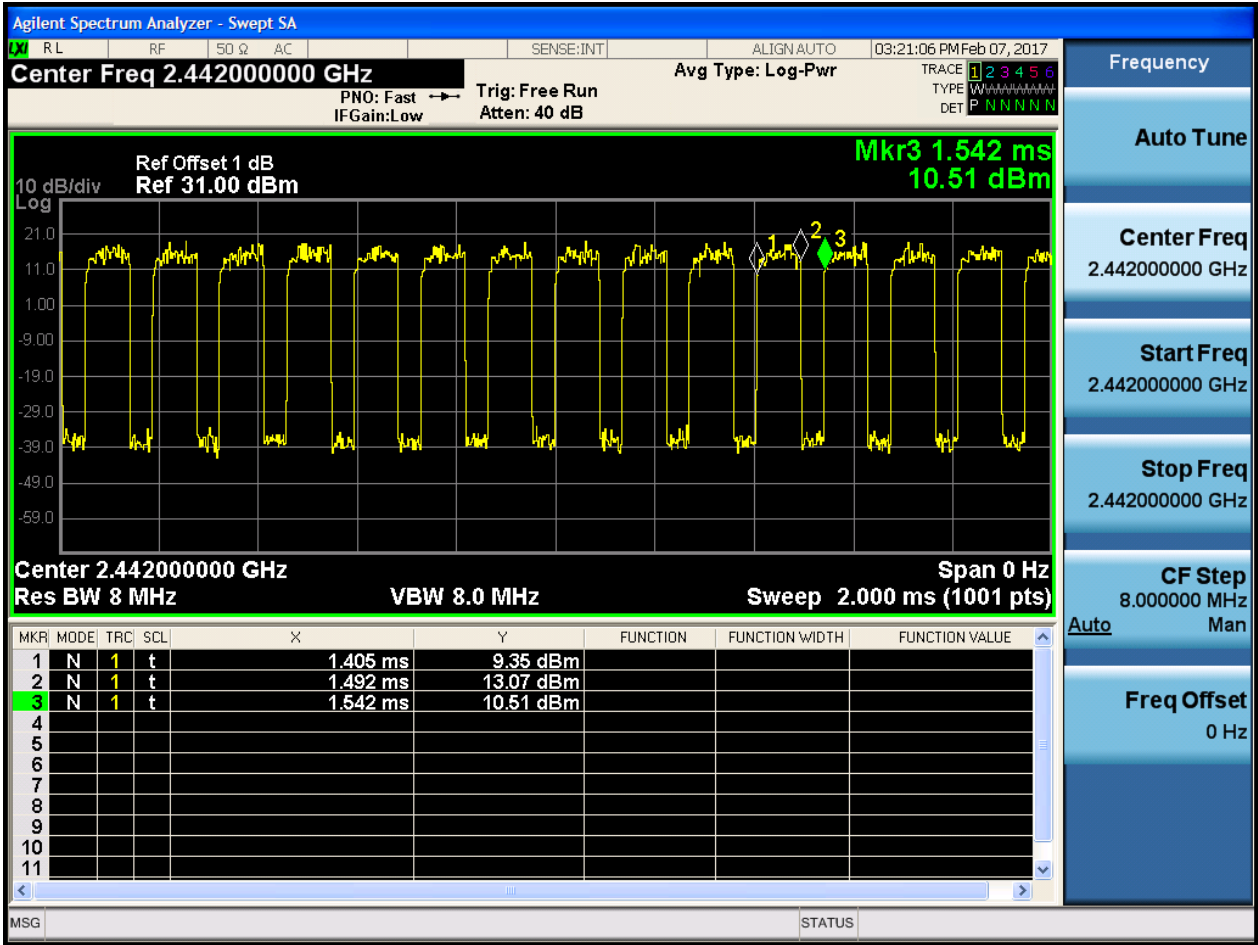


2.8 11N20MIMO\_ANT2



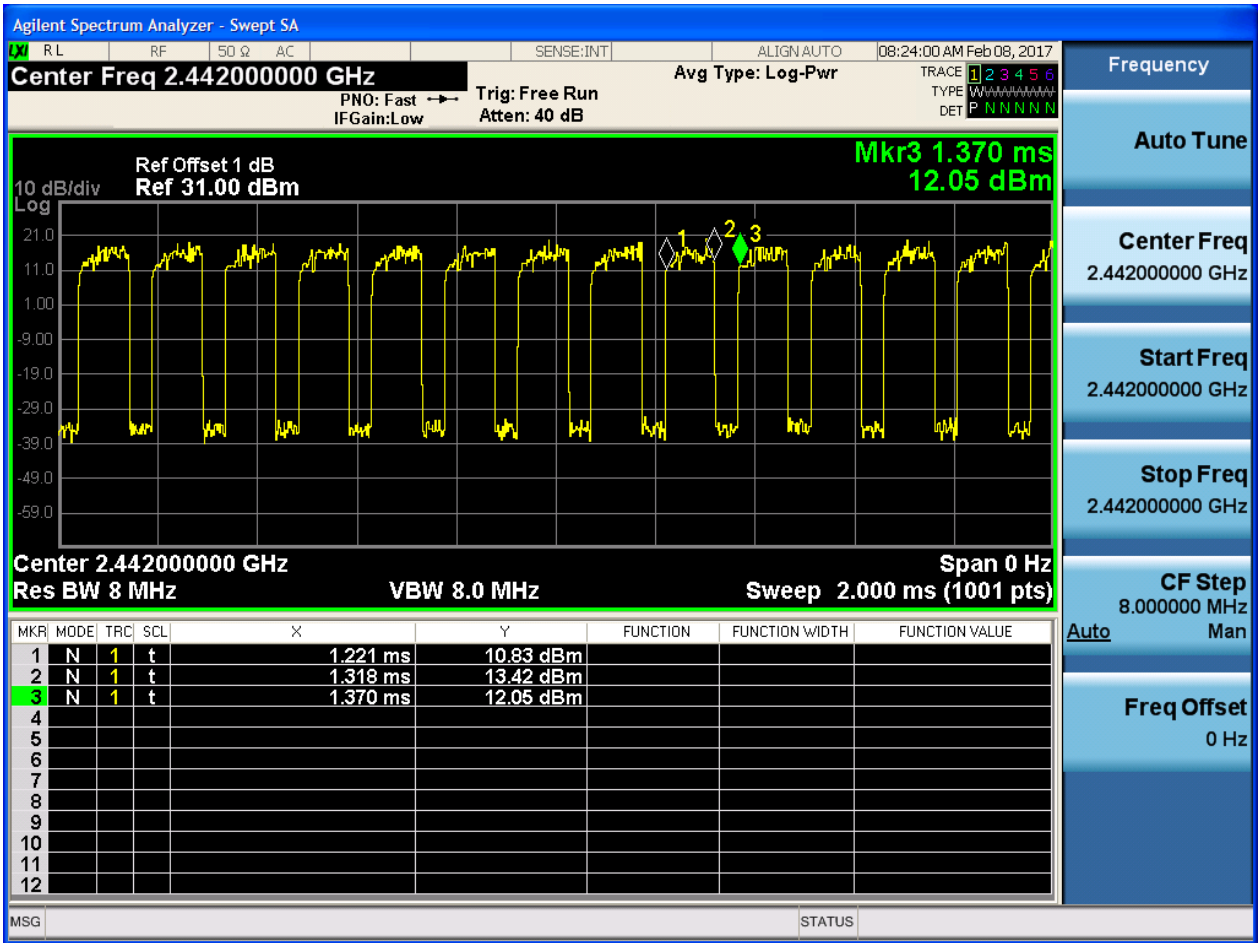


2.9 11N40SISO\_ANT1





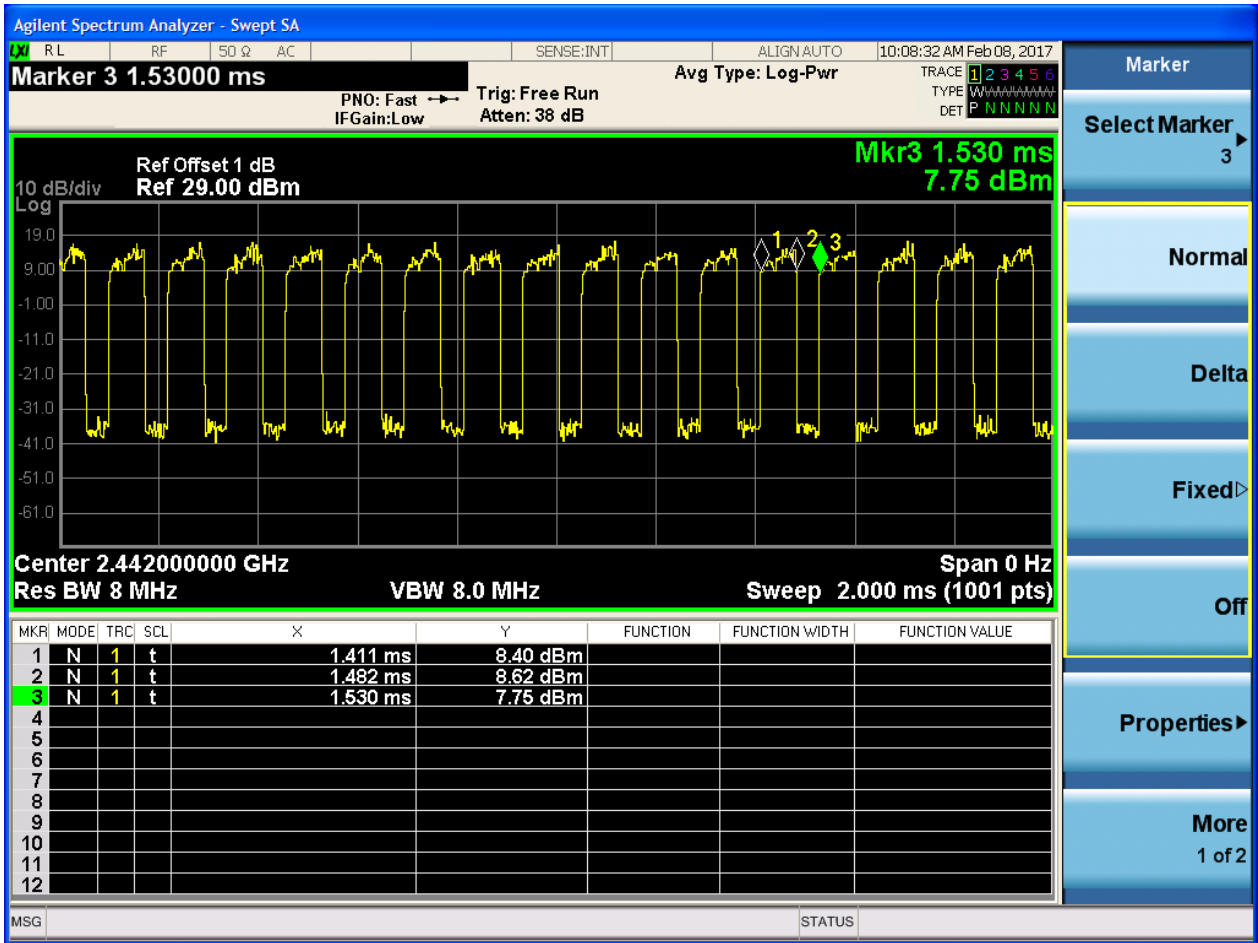
### 2.10 11N40SISO\_ANT2





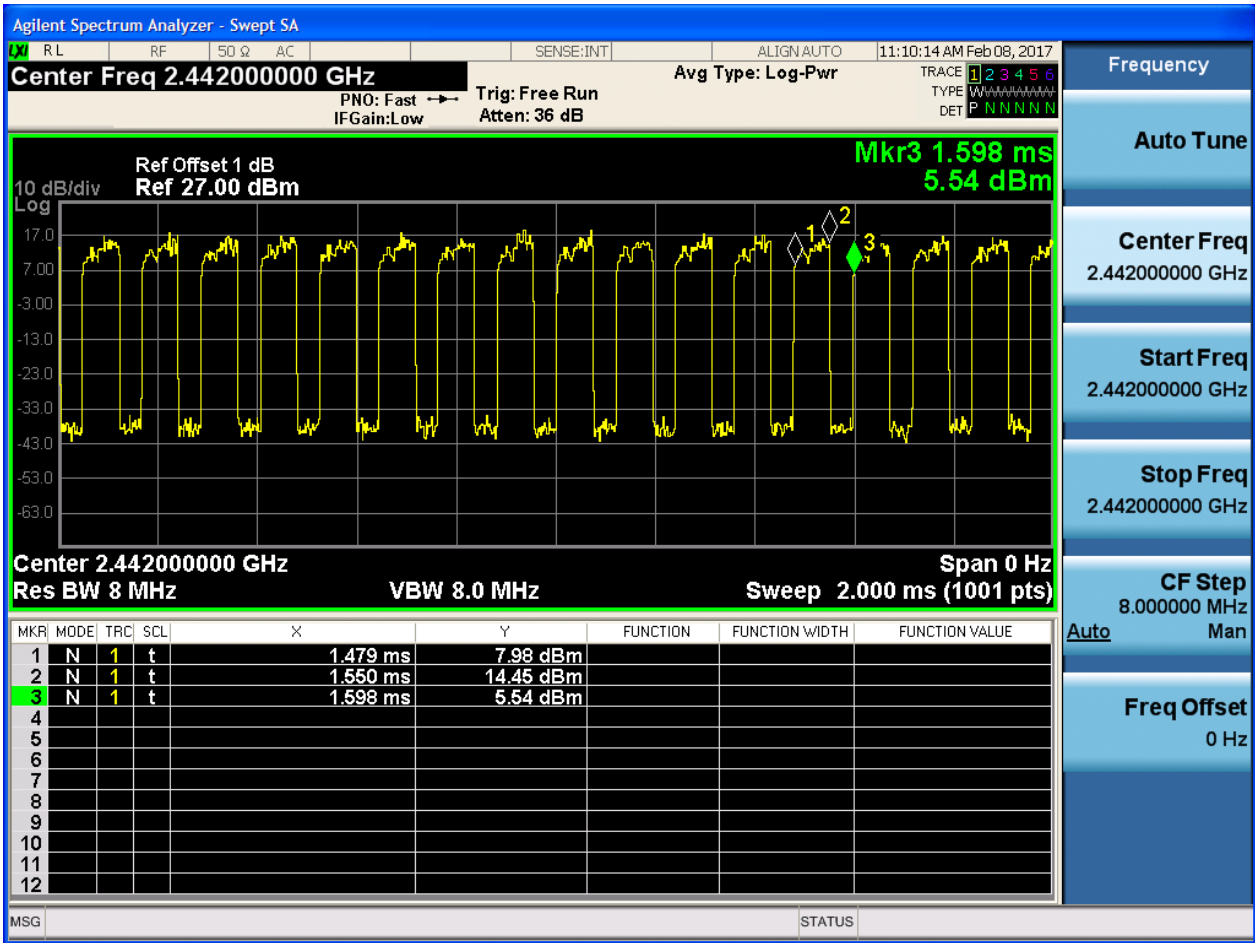


### 2.11 11N40MIMO\_ANT1





2.12 11N40MIMO\_ANT2





## Appendix D: Maximum Conducted Average Output Power

### Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Power[dBm]	Verdict
11B	L	2432	Ant 1	15.08	pass
11B	L	2432	Ant 2	15.47	pass
11B	M	2447	Ant 1	15.66	pass
11B	M	2447	Ant 2	15.60	pass
11B	H	2462	Ant 1	15.90	pass
11B	H	2462	Ant 2	15.57	pass
11G	L	2432	Ant 1	16.14	pass
11G	L	2432	Ant 2	16.40	pass
11G	M	2447	Ant 1	16.71	pass
11G	M	2447	Ant 2	16.54	pass
11G	H	2462	Ant 1	16.82	pass
11G	H	2462	Ant 2	16.58	pass
11N20	L	2432	Ant 1	16.41	pass
11N20	L	2432	Ant 2	16.70	pass
11N20	M	2447	Ant 1	17.00	pass
11N20	M	2447	Ant 2	16.70	pass
11N20	H	2462	Ant 1	17.10	pass
11N20	H	2462	Ant 2	16.66	pass
11N20m	L	2432	Ant 1	14.09	pass
11N20m	L	2432	Ant 2	14.18	pass
11N20m	L	2432	SUM	17.15	pass
11N20m	M	2447	Ant 1	14.36	pass
11N20m	M	2447	Ant 2	14.18	pass
11N20m	M	2447	SUM	17.28	pass
11N20m	H	2462	Ant 1	14.49	pass
11N20m	H	2462	Ant 2	14.17	pass
11N20m	H	2462	SUM	17.34	pass
11N40	L	2442	Ant 1	17.17	pass
11N40	L	2442	Ant 2	16.96	pass
11N40	M	2447	Ant 1	17.19	pass
11N40	M	2447	Ant 2	17.00	pass
11N40	H	2452	Ant 1	17.55	pass
11N40	H	2452	Ant 2	17.06	pass
11N40m	L	2442	Ant 1	14.39	pass
11N40m	L	2442	Ant 2	15.35	pass

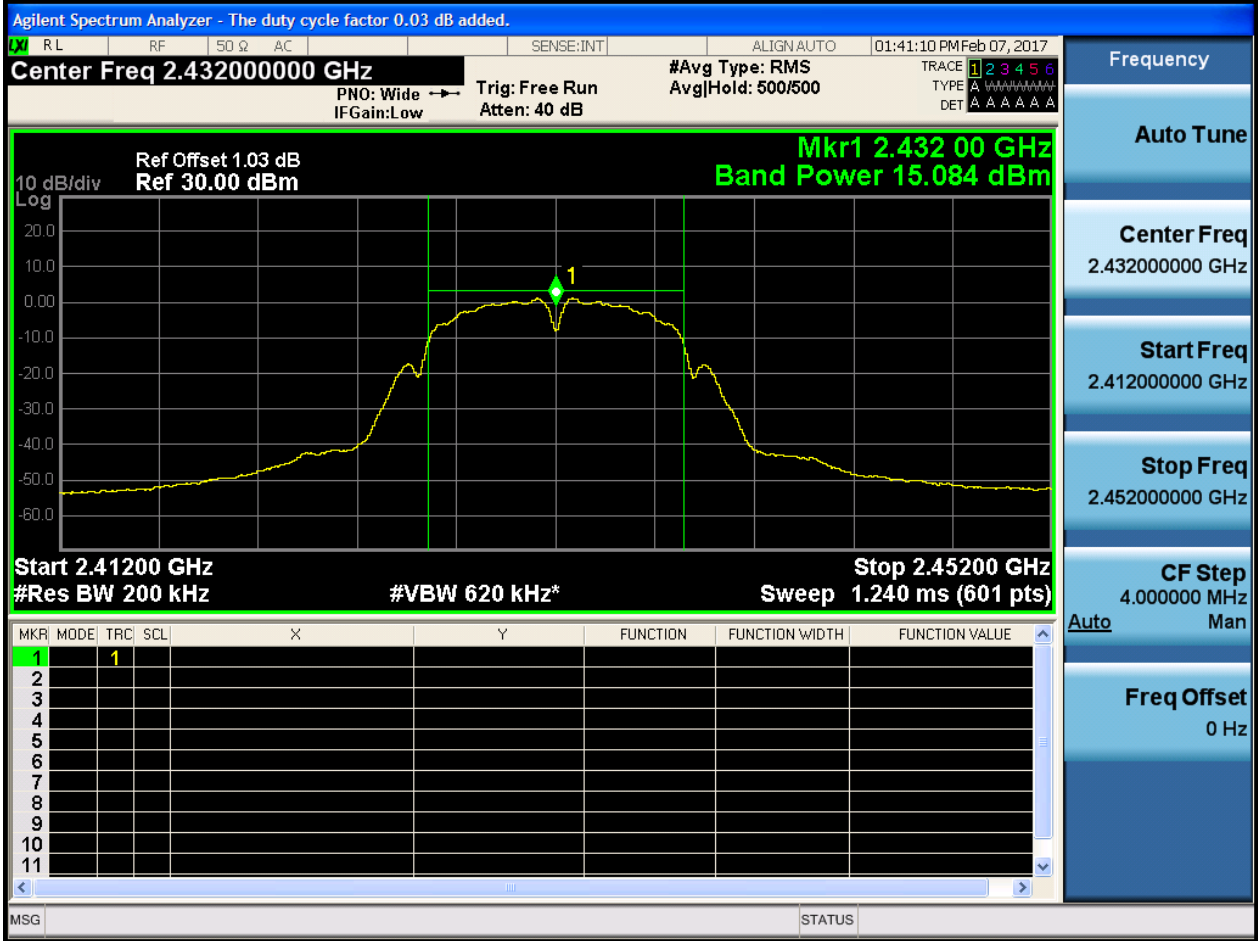


Test Mode	Test Channel	Frequency[MHz]	Ant	Power[dBm]	Verdict
11N40m	L	2442	SUM	17.91	pass
11N40m	M	2447	Ant 1	14.48	pass
11N40m	M	2447	Ant 2	15.39	pass
11N40m	M	2447	SUM	17.97	pass
11N40m	H	2452	Ant 1	14.44	pass
11N40m	H	2452	Ant 2	15.43	pass
11N40m	H	2452	SUM	17.97	pass



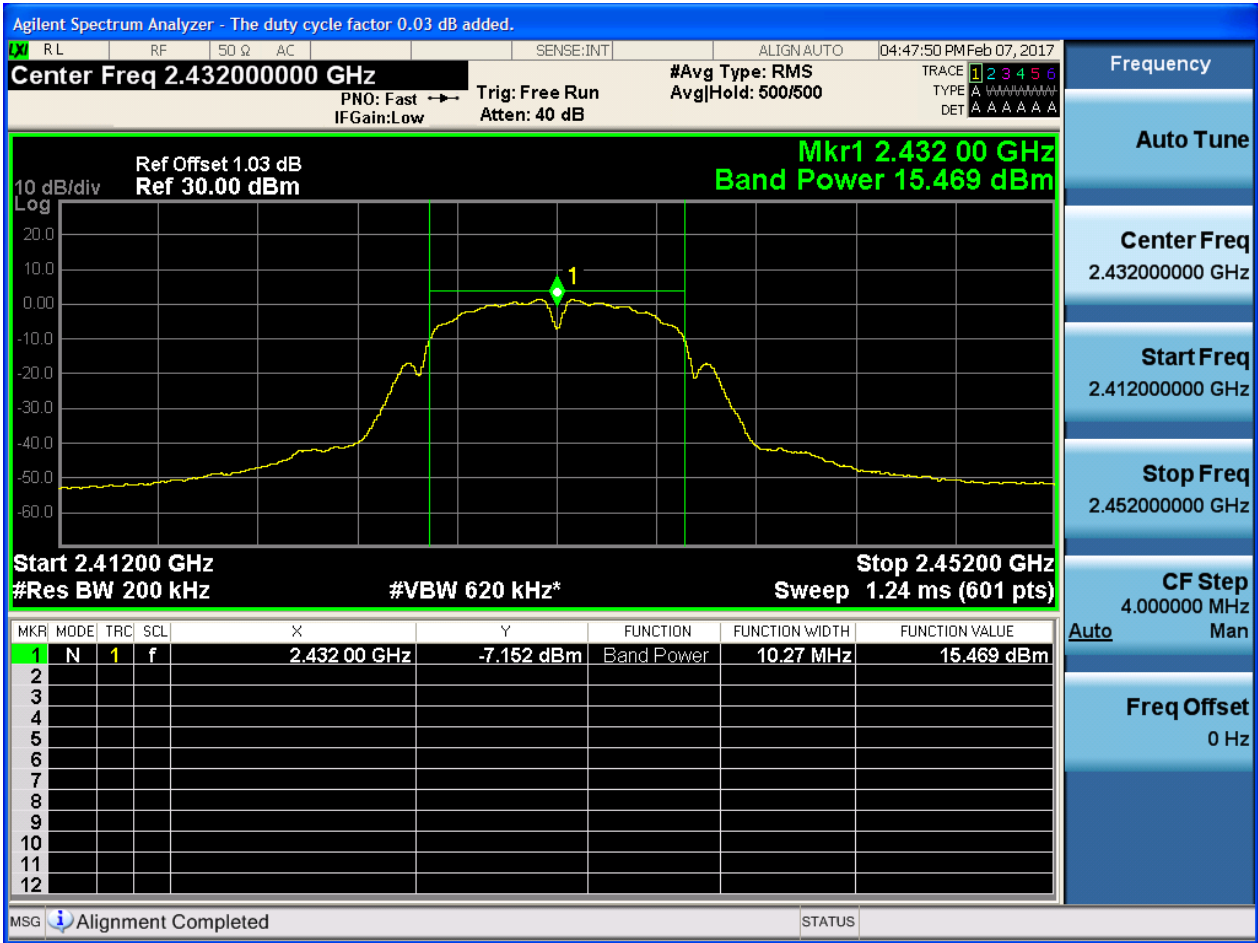
Part II - Test Plots

2.1 11B\_L@Ant 1



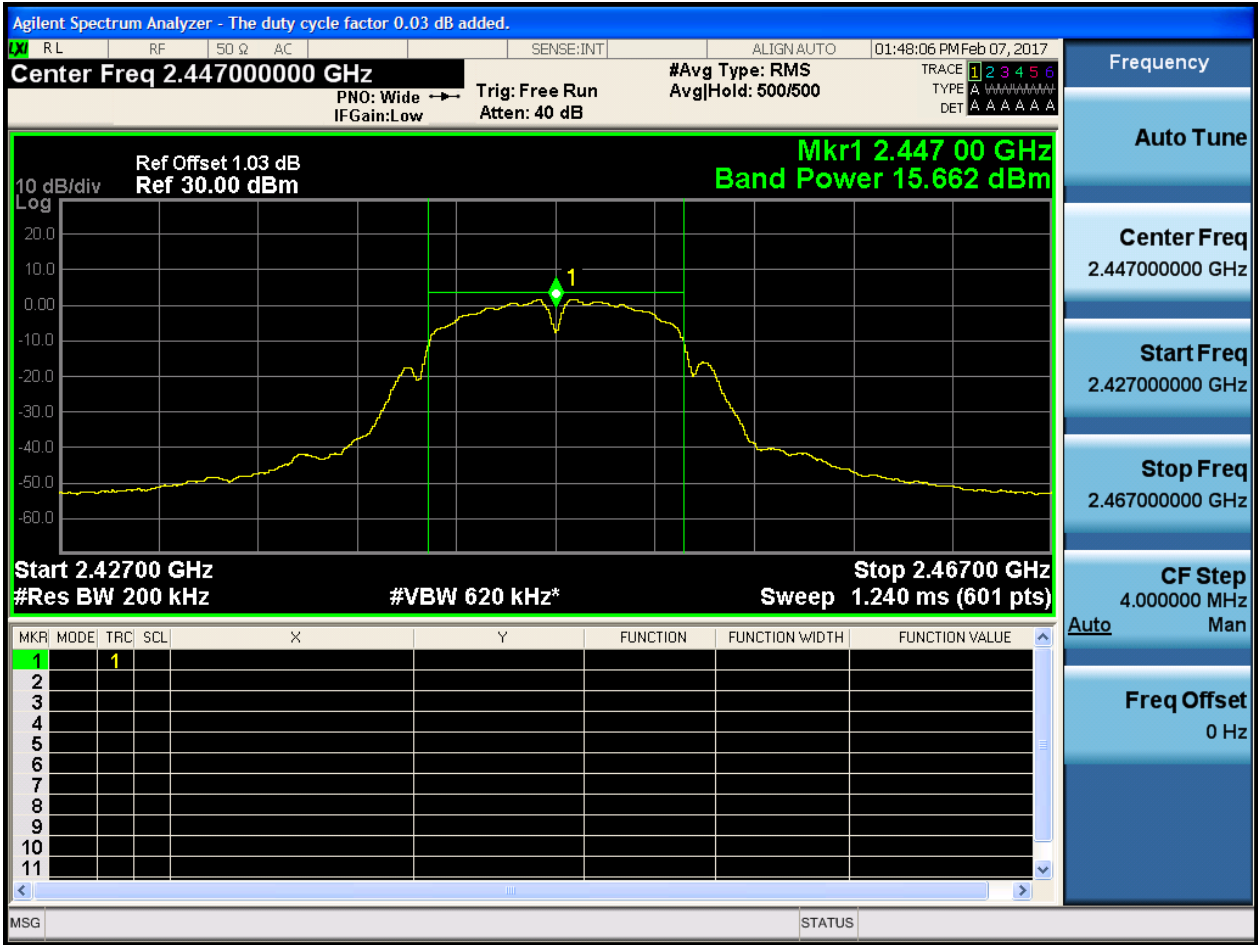


2.2 11B\_L@Ant 2



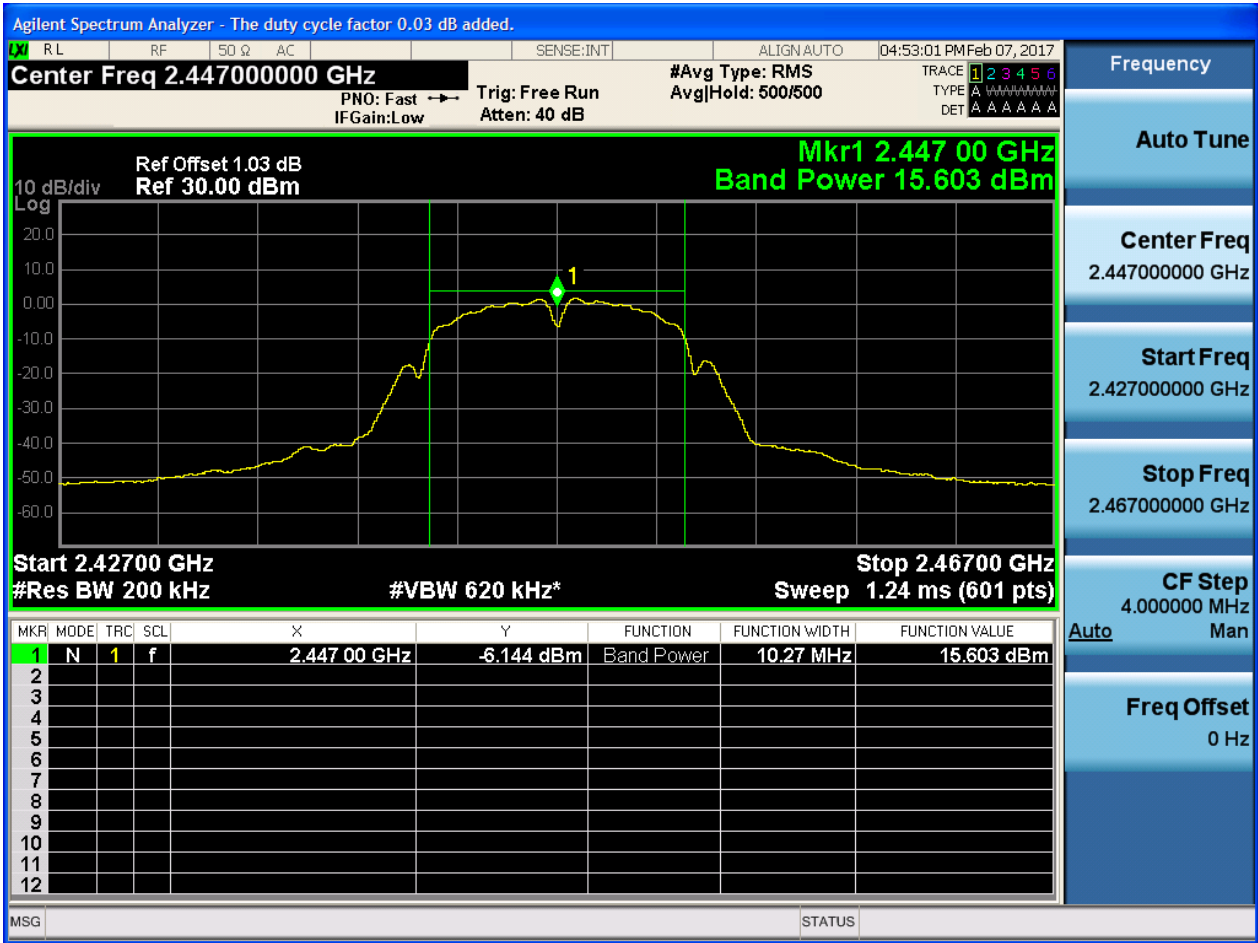


### 2.3 11B\_M@Ant 1





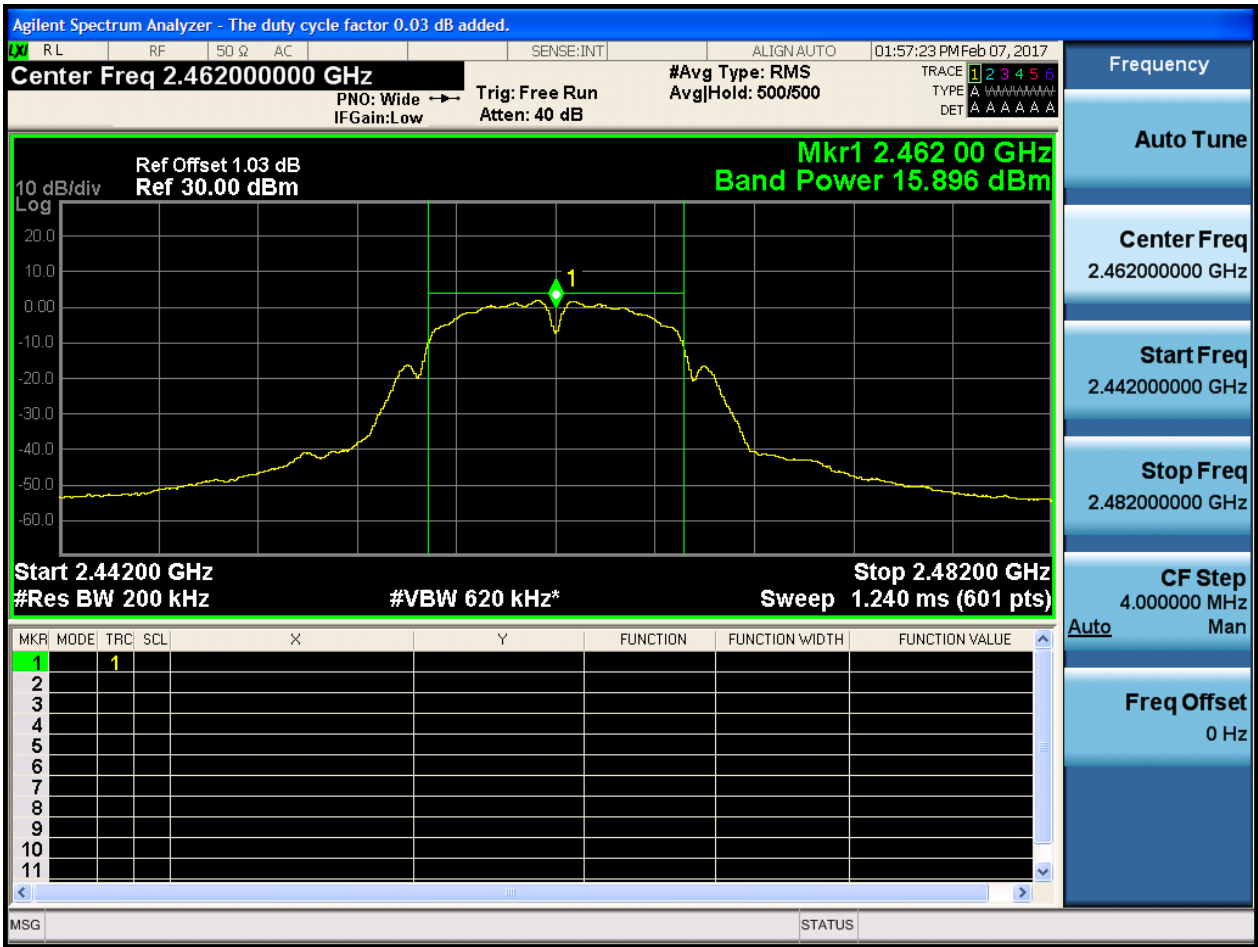
2.4 11B\_M@Ant 2





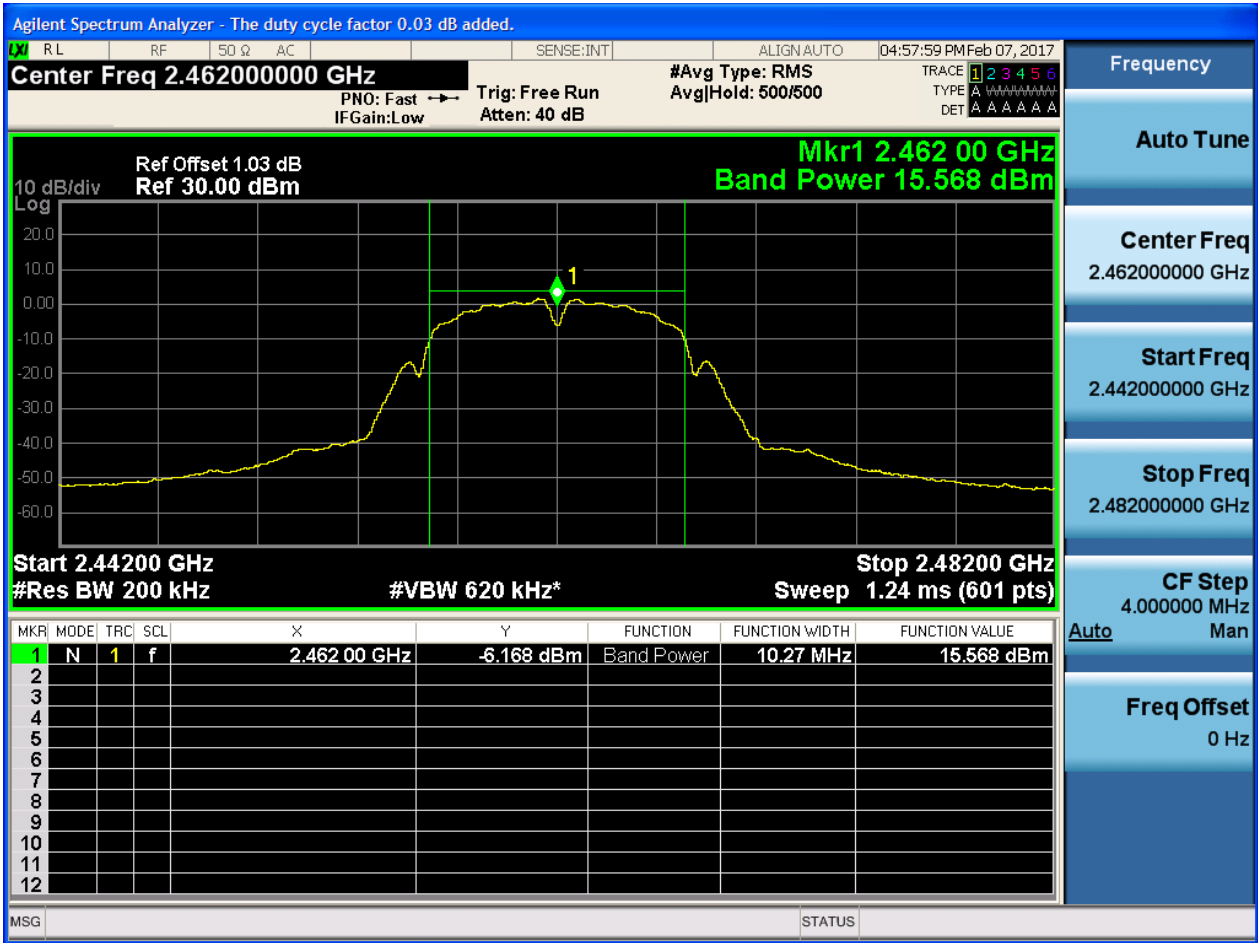


### 2.5 11B\_H@Ant 1



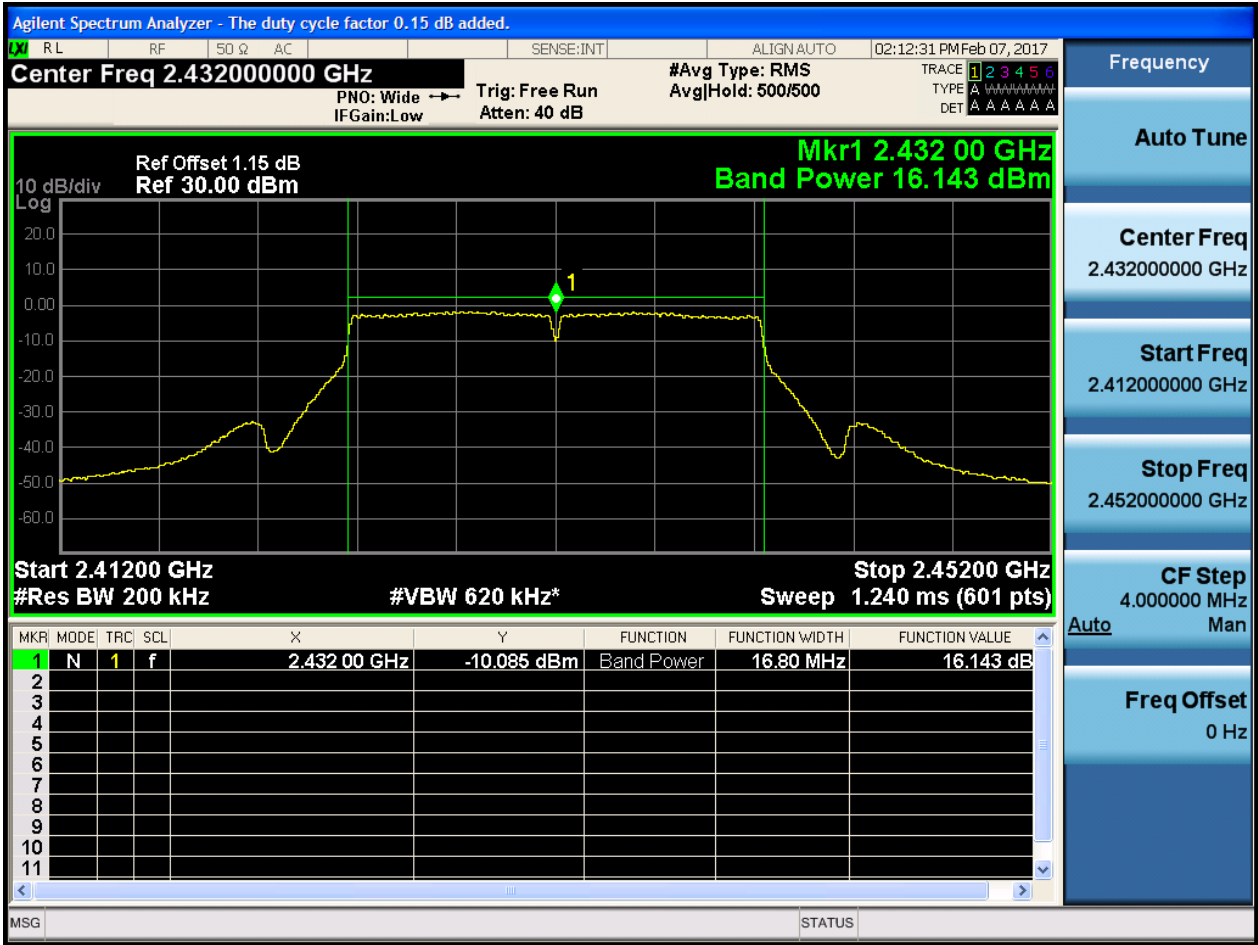


2.6 11B\_H@Ant 2



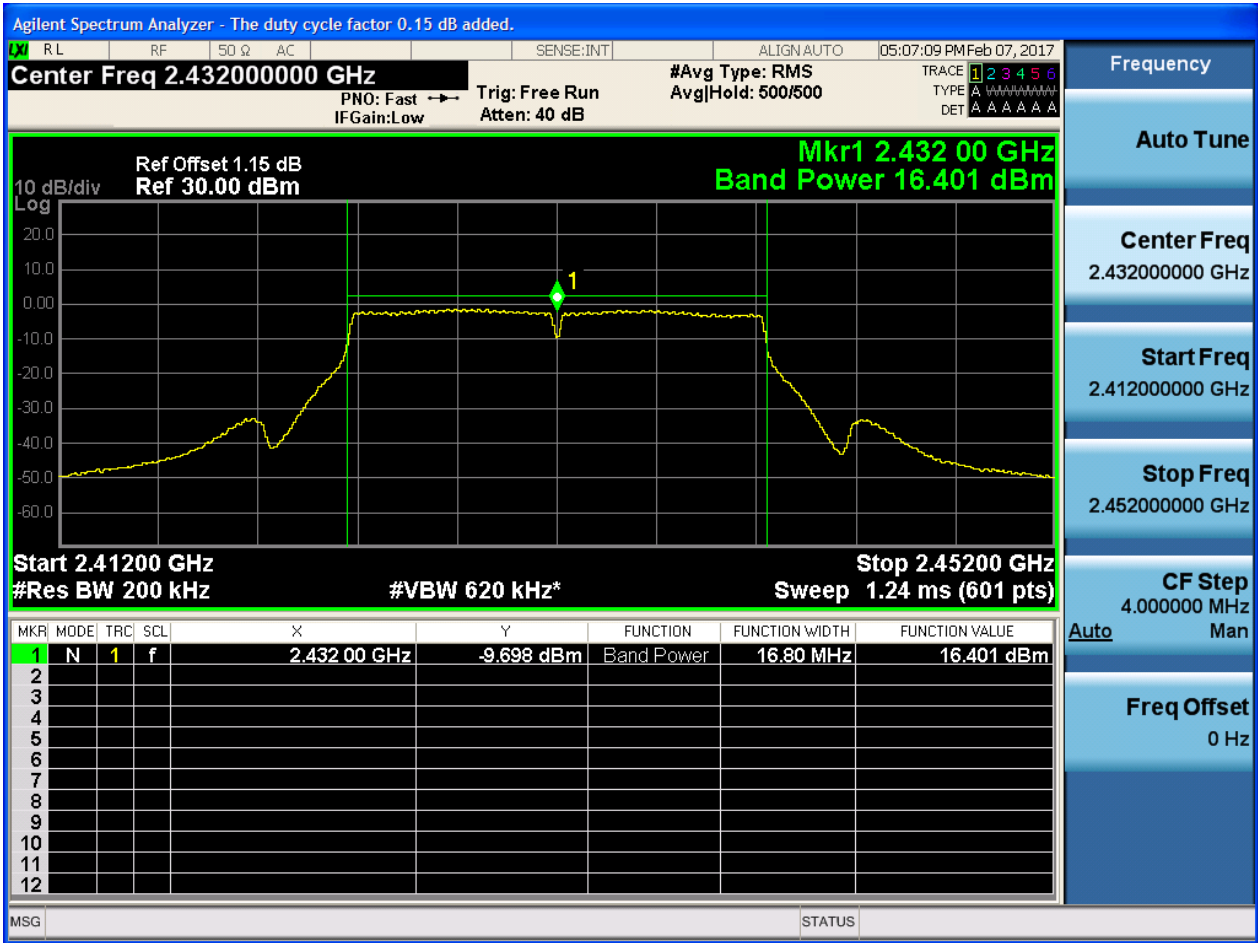


### 2.7 11G\_L@Ant 1



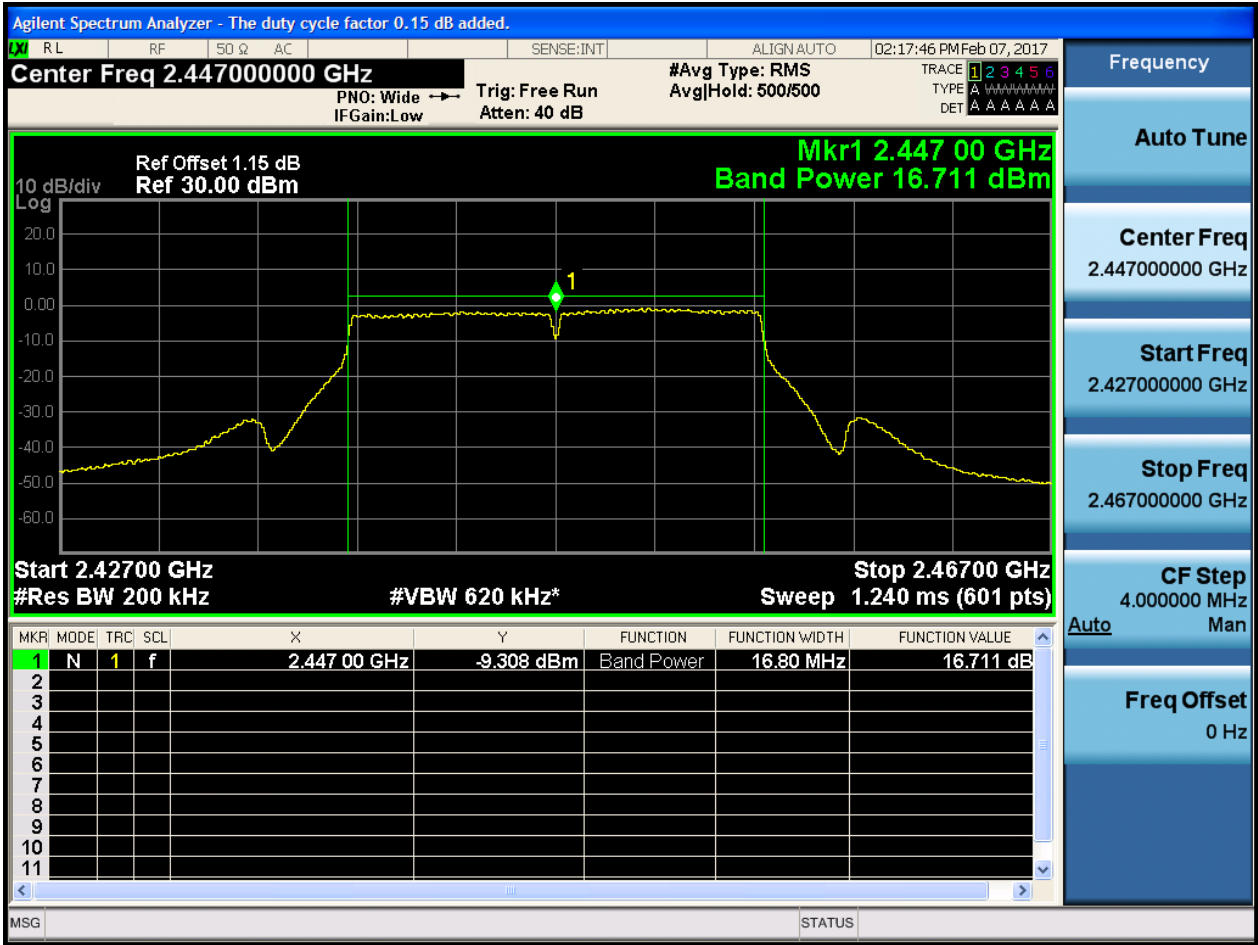


2.8 11G\_L@Ant 2



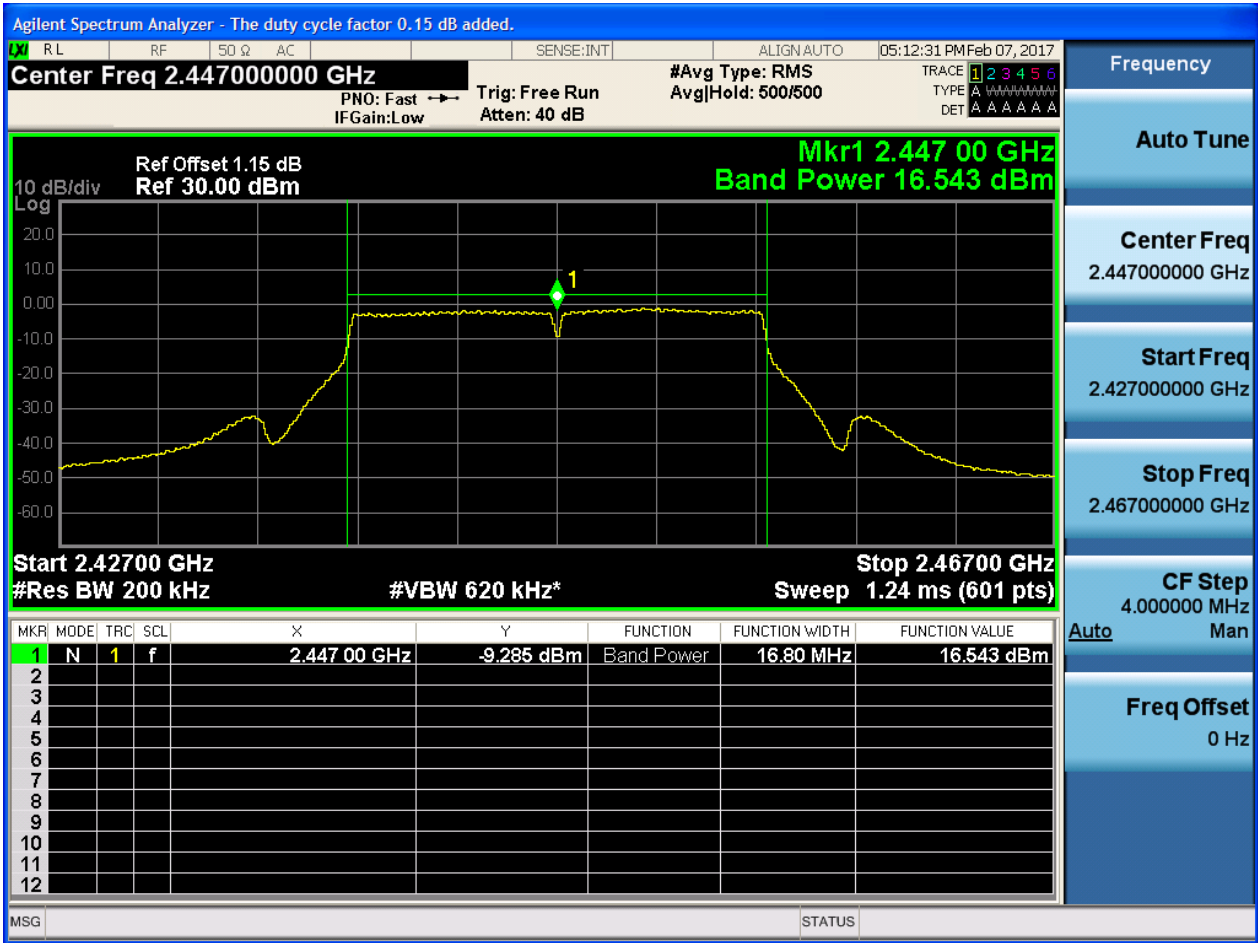


2.9 11G\_M@Ant 1



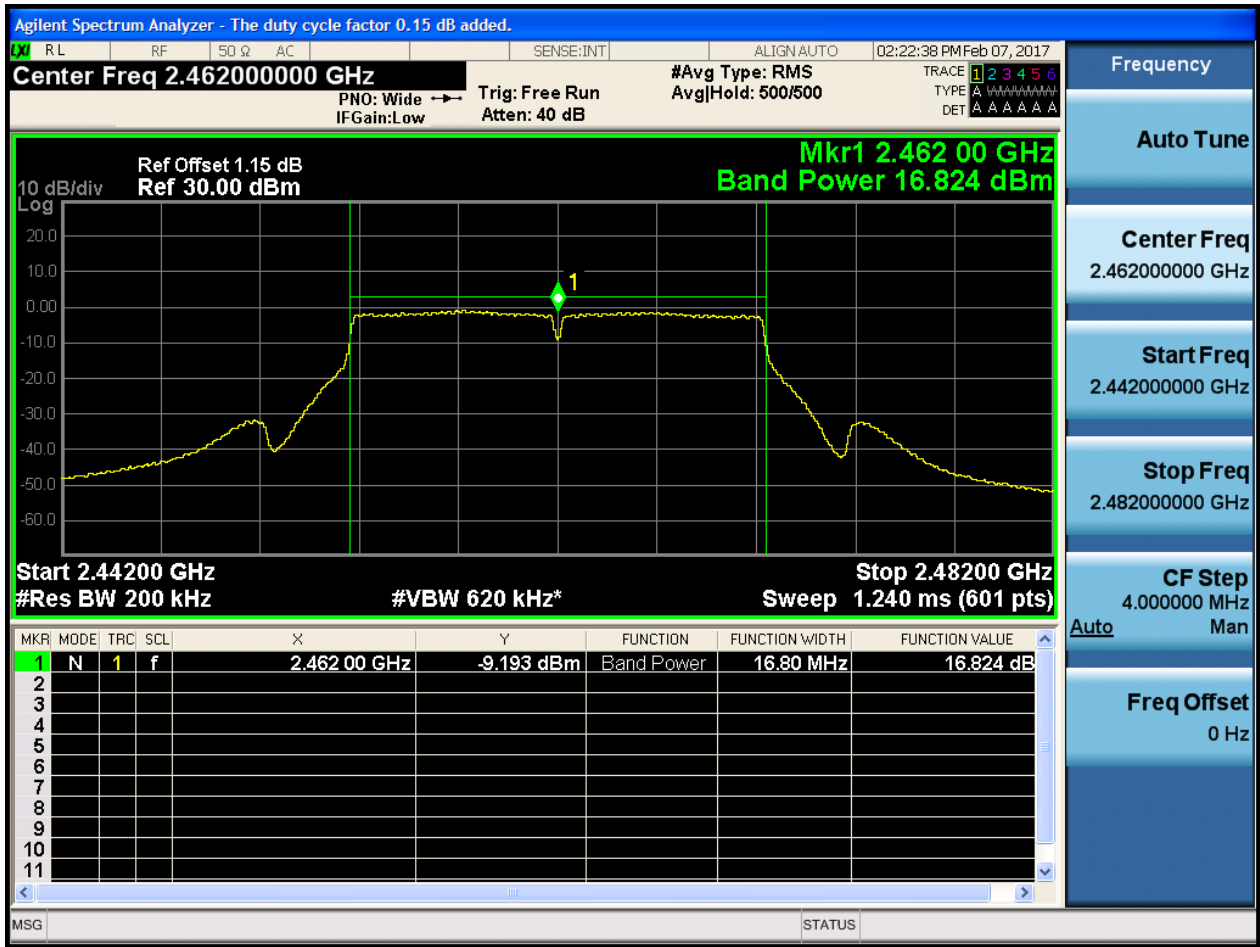


2.10 11G\_M@Ant 2



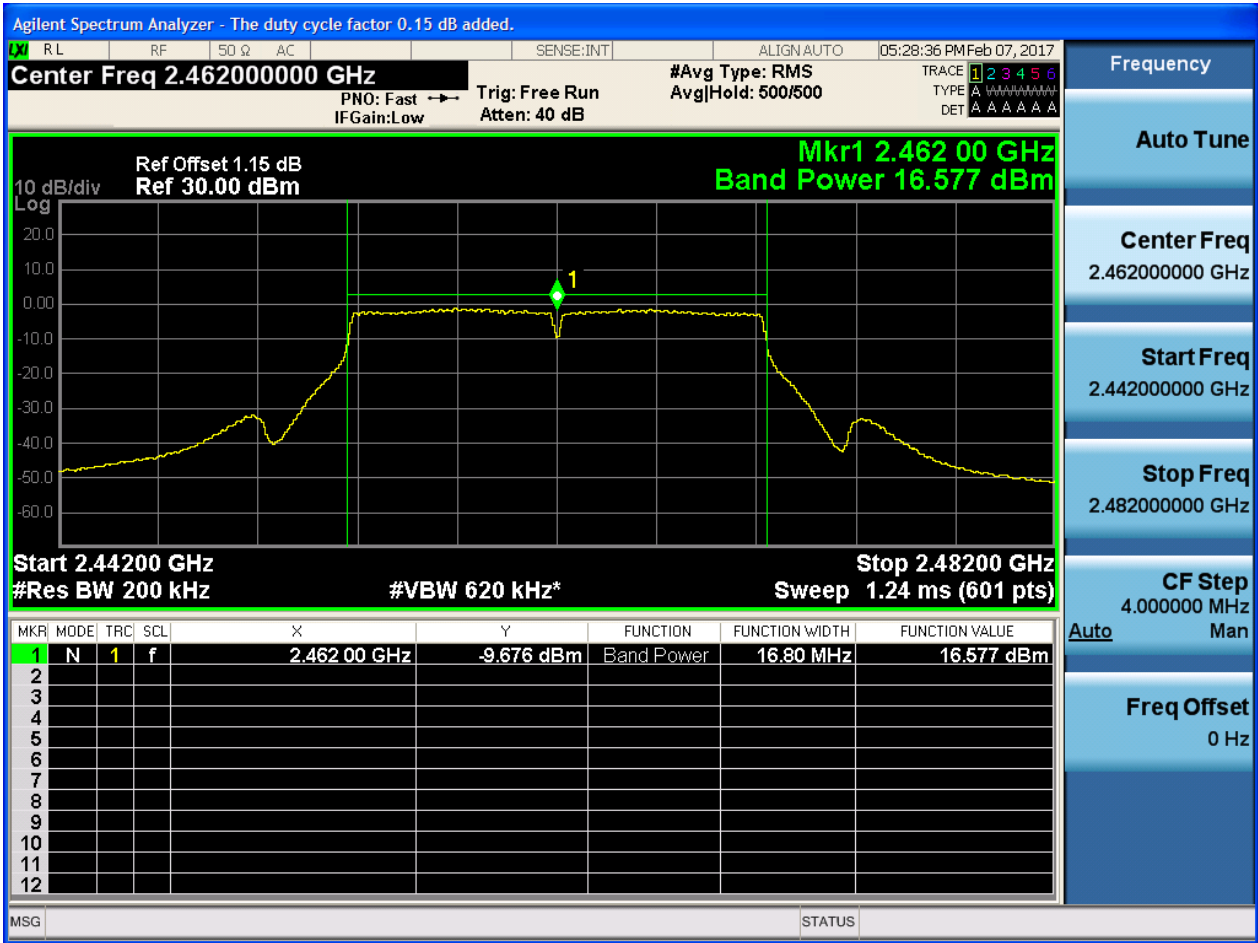


2.11 11G\_H@Ant 1





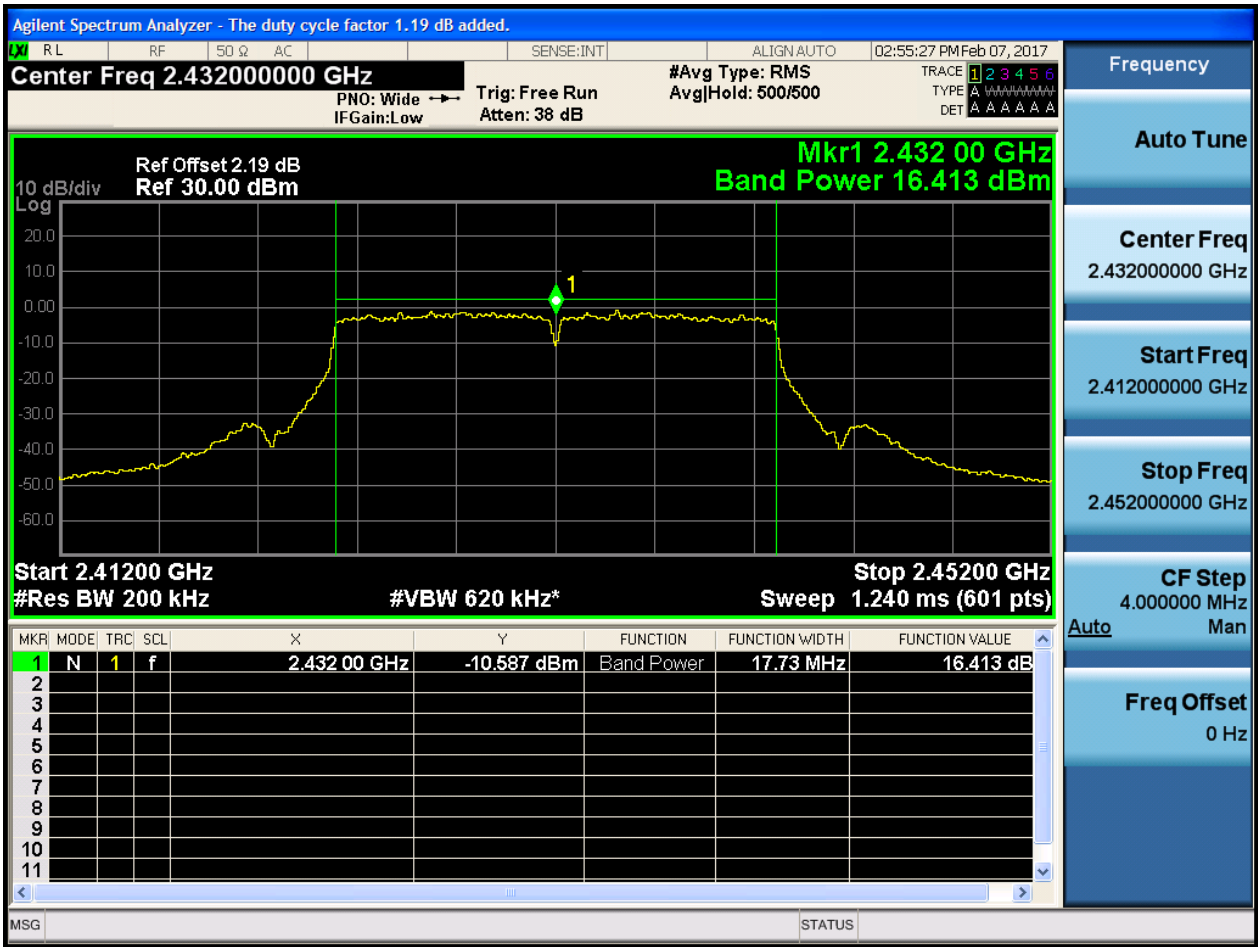
### 2.12 11G\_H@Ant 2





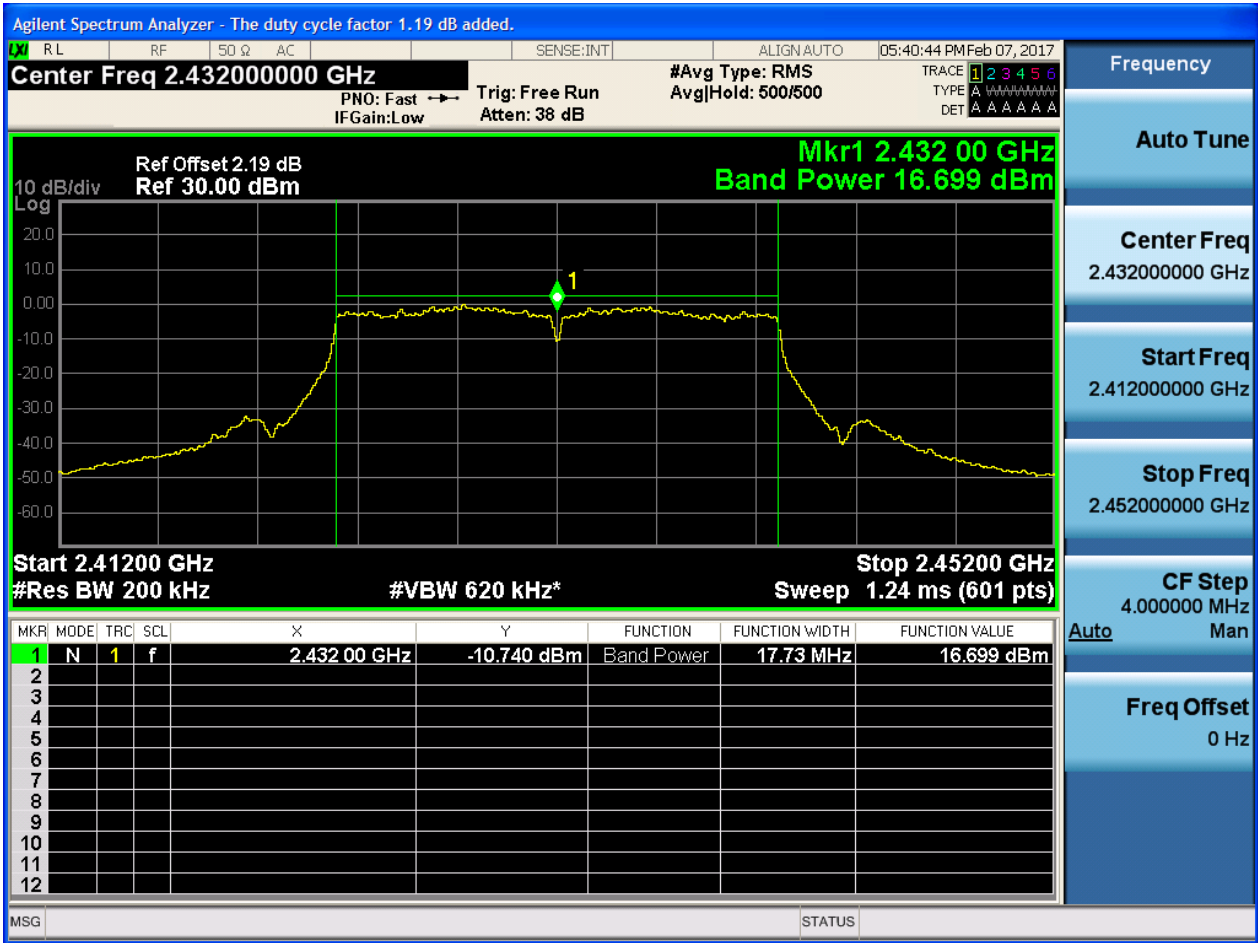


2.13 11N20\_L@Ant 1



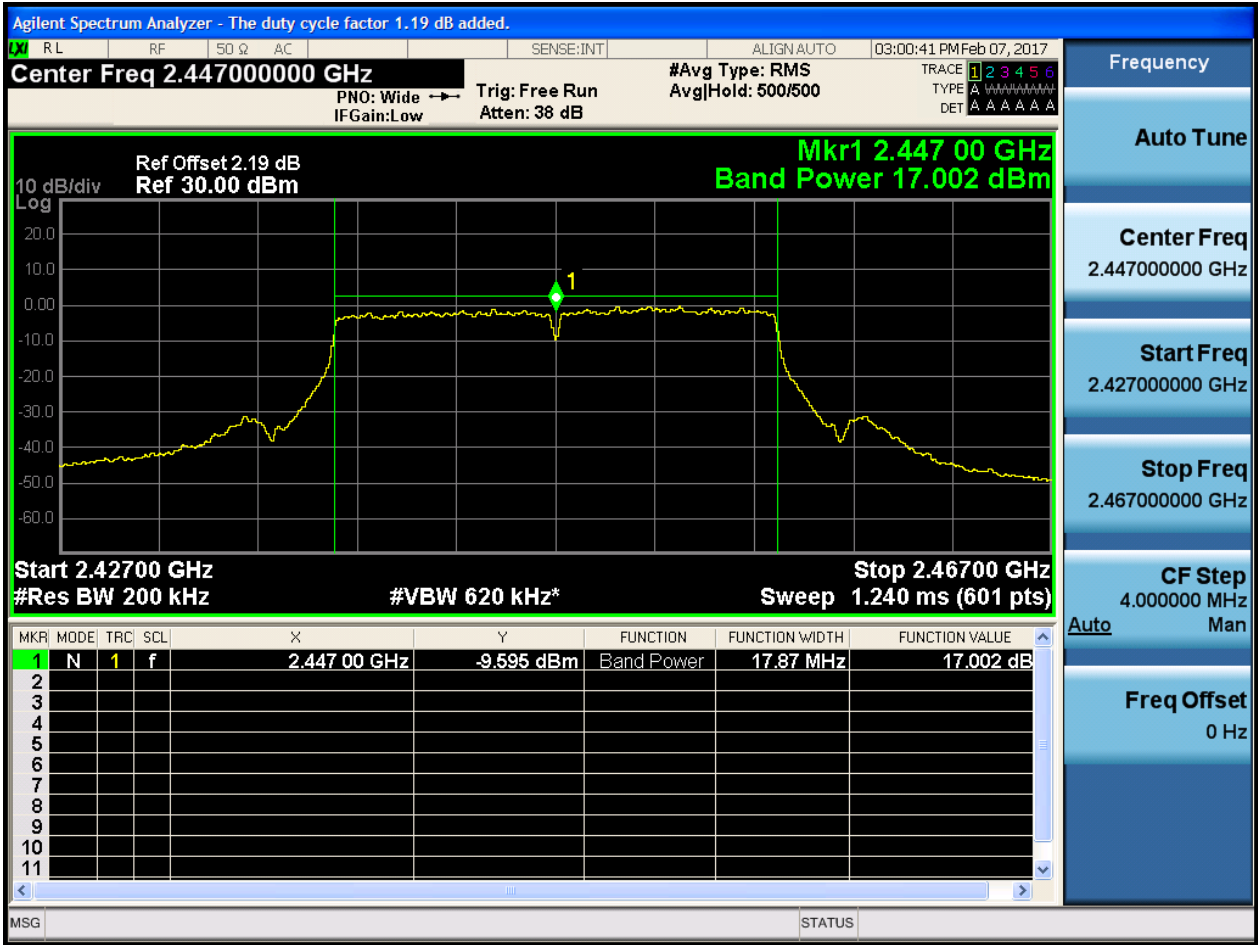


2.14 11N20\_L@Ant 2



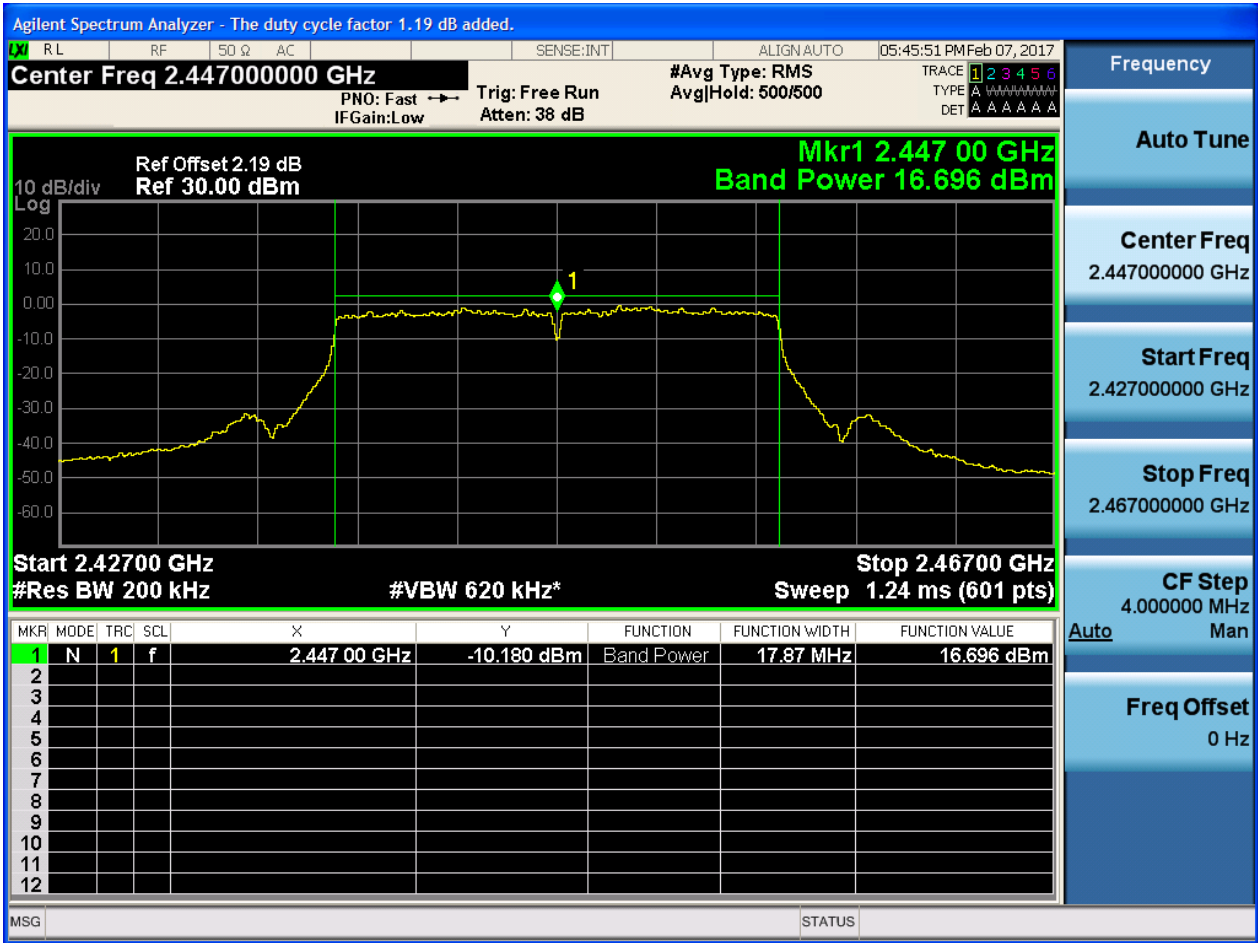


2.15 11N20\_M@Ant 1





2.16 11N20\_M@Ant 2



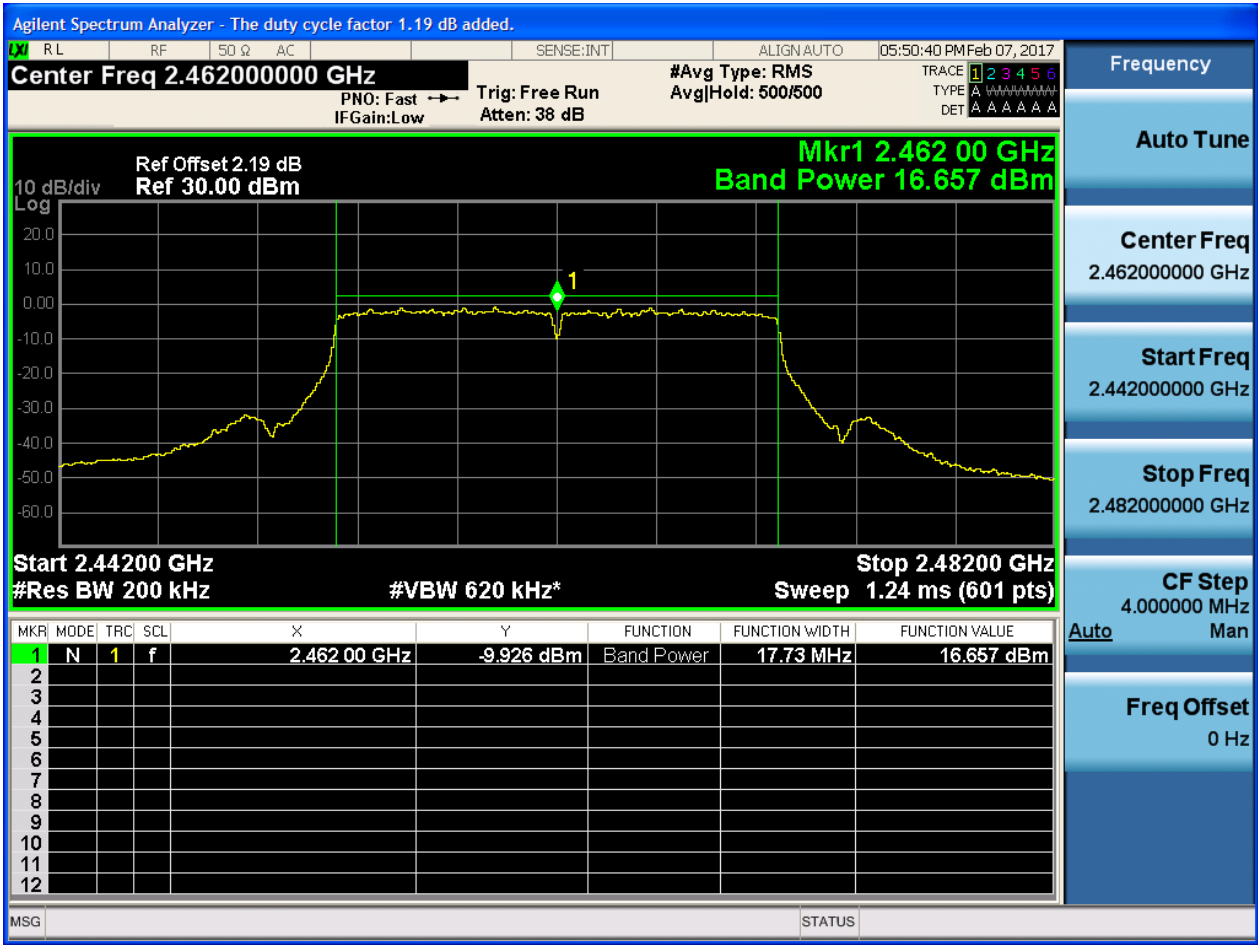


2.17 11N20\_H@Ant 1



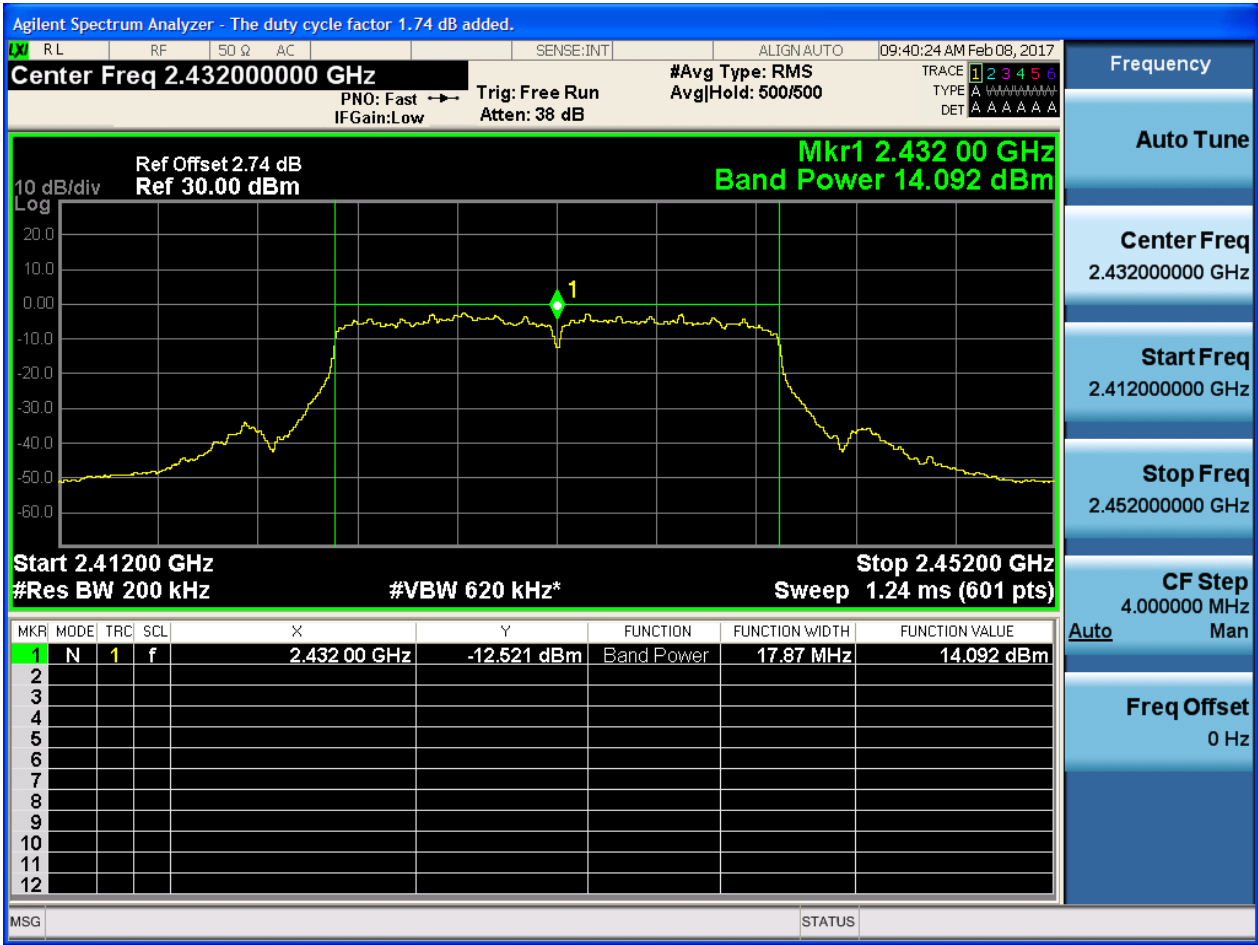


2.18 11N20\_H@Ant 2



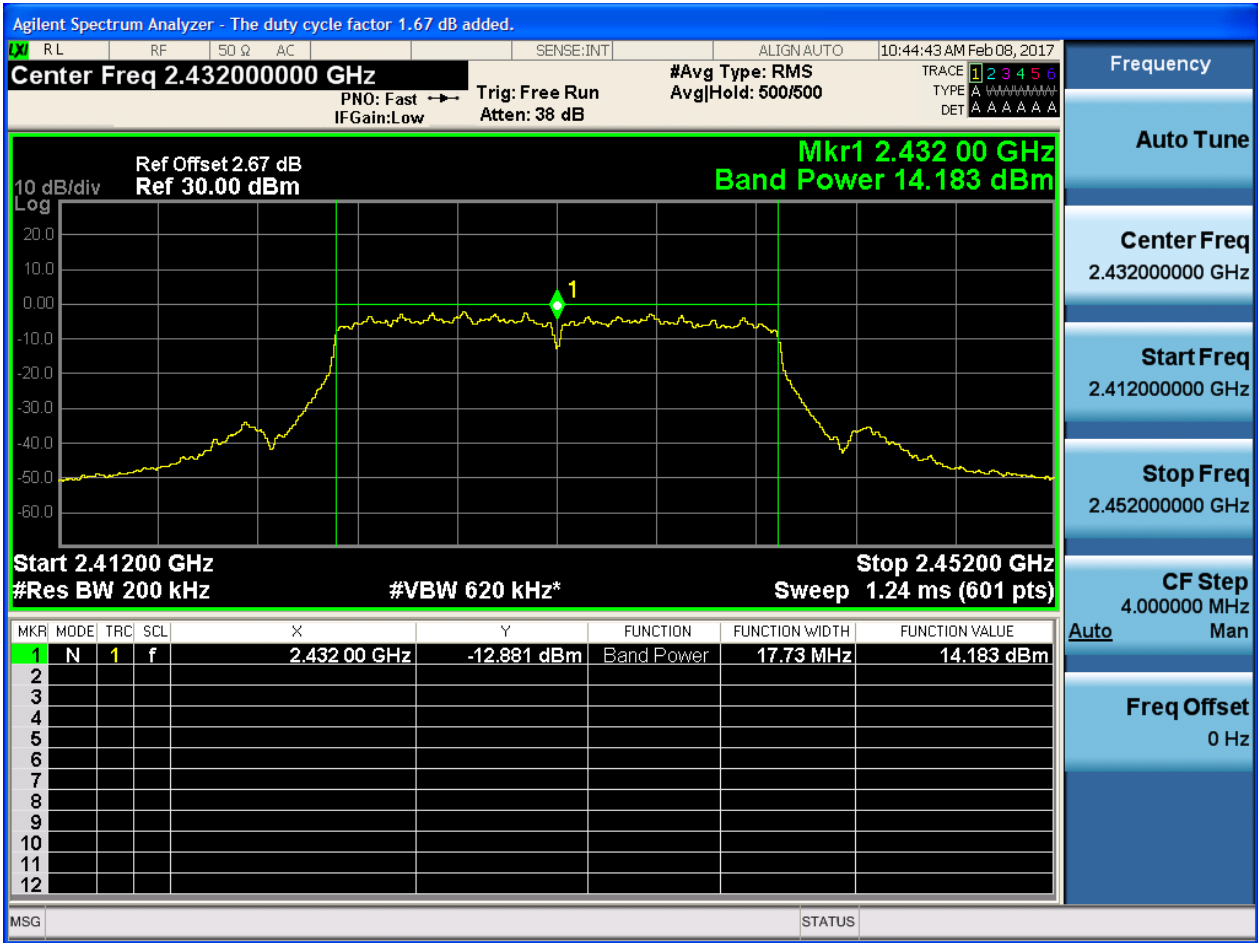


2.19 11N20m\_L@Ant 1





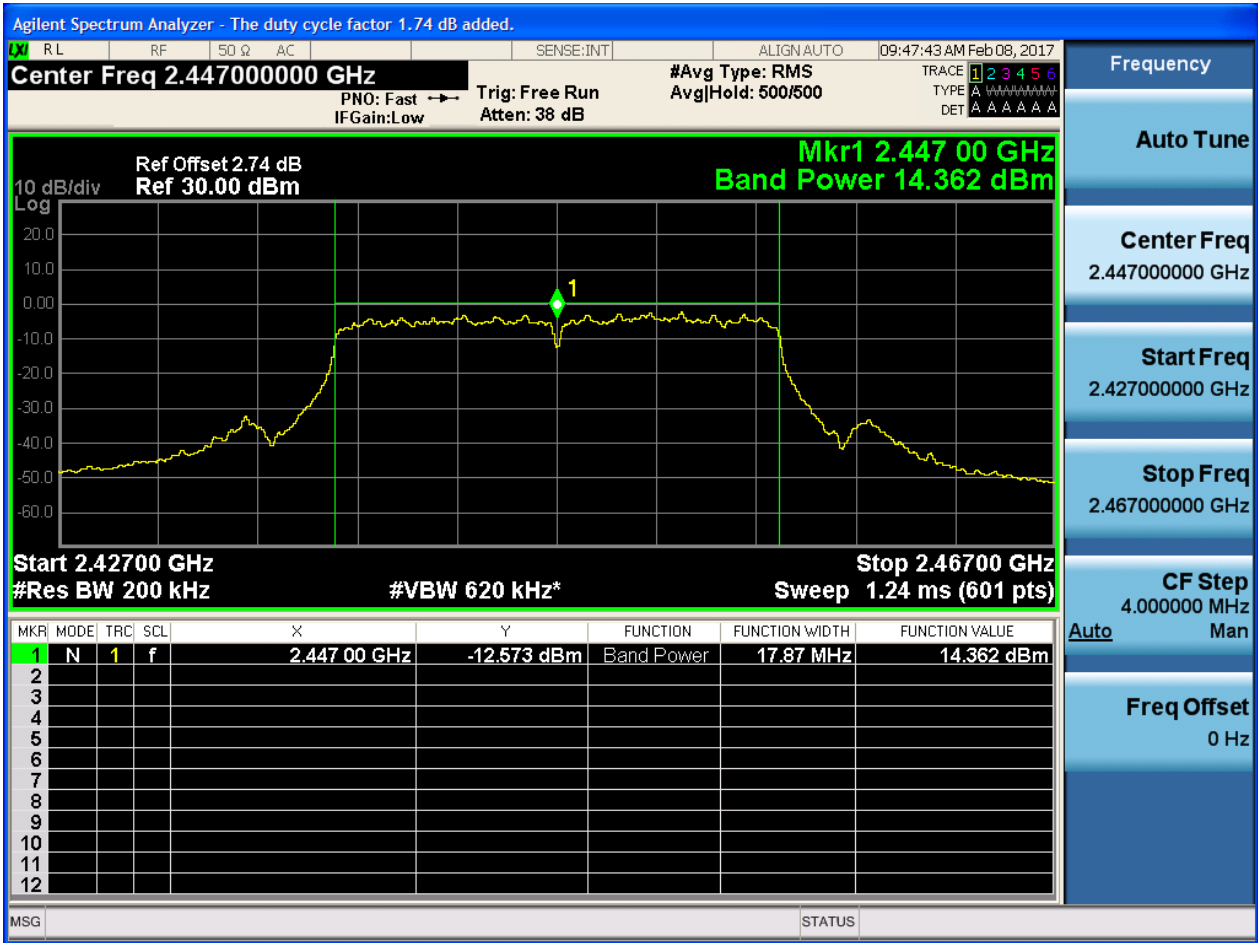
2.20 11N20m\_L@Ant 2





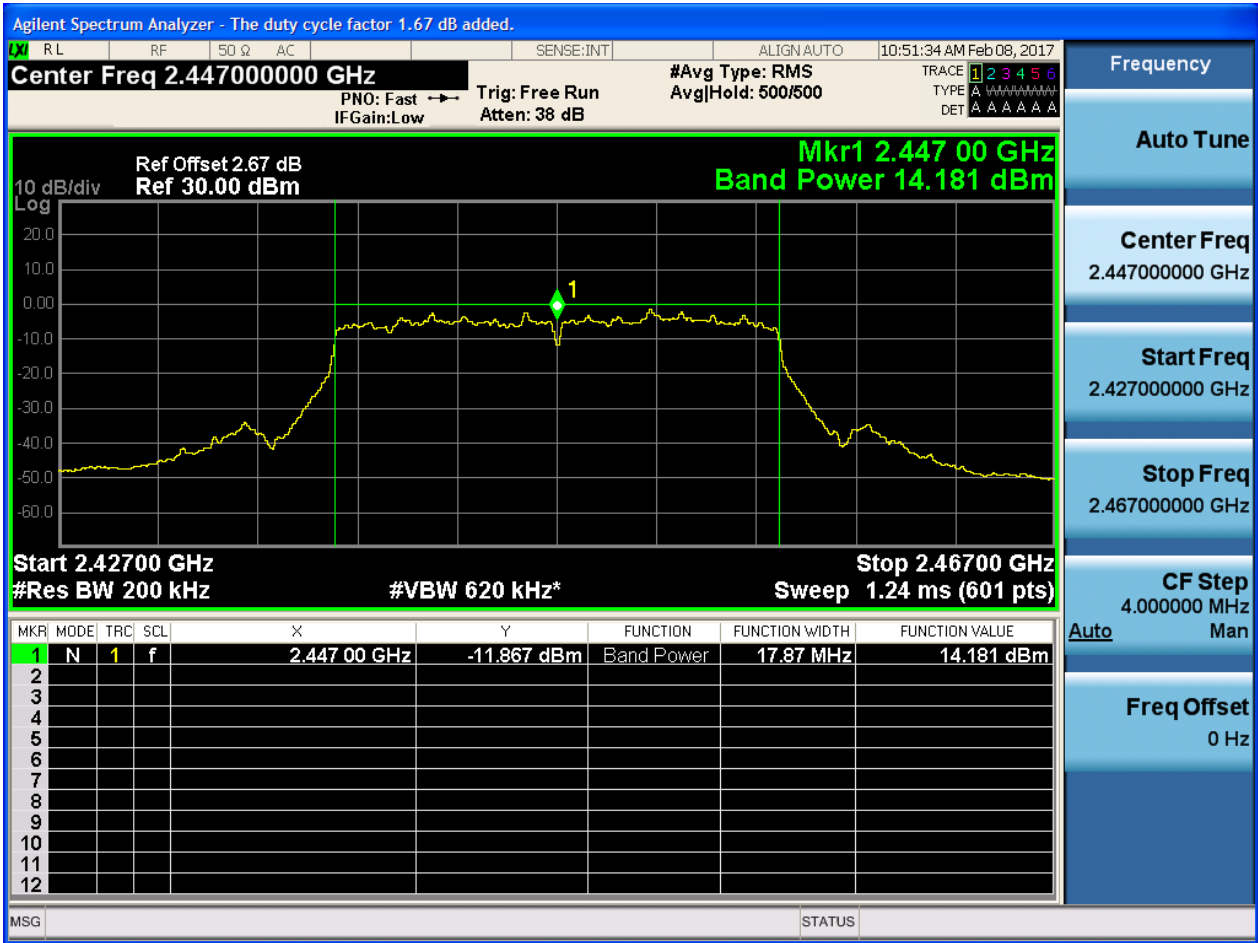


2.21 11N20m\_M@Ant 1



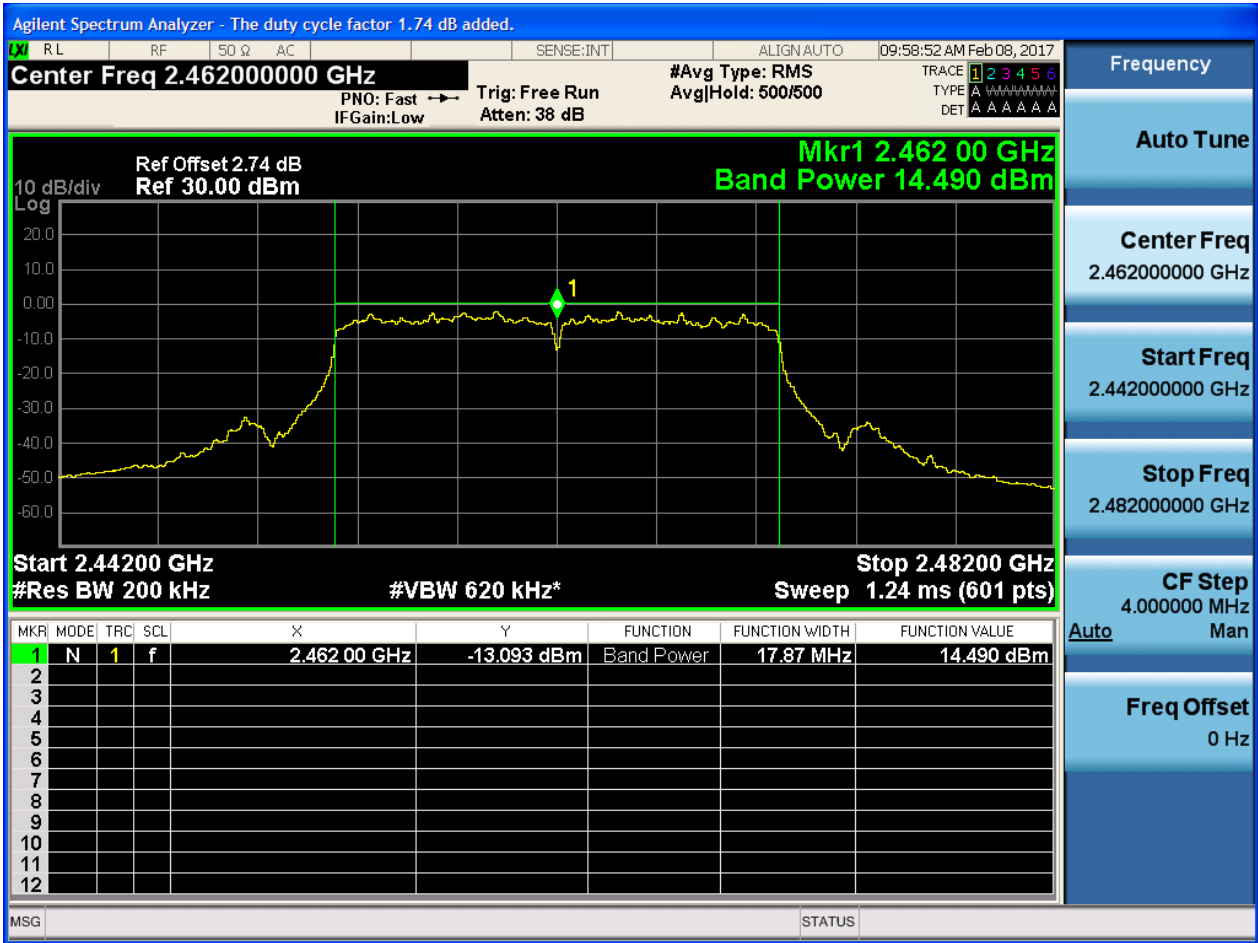


2.22 11N20m\_M@Ant 2





2.23 11N20m\_H@Ant 1





2.24 11N20m\_H@Ant 2



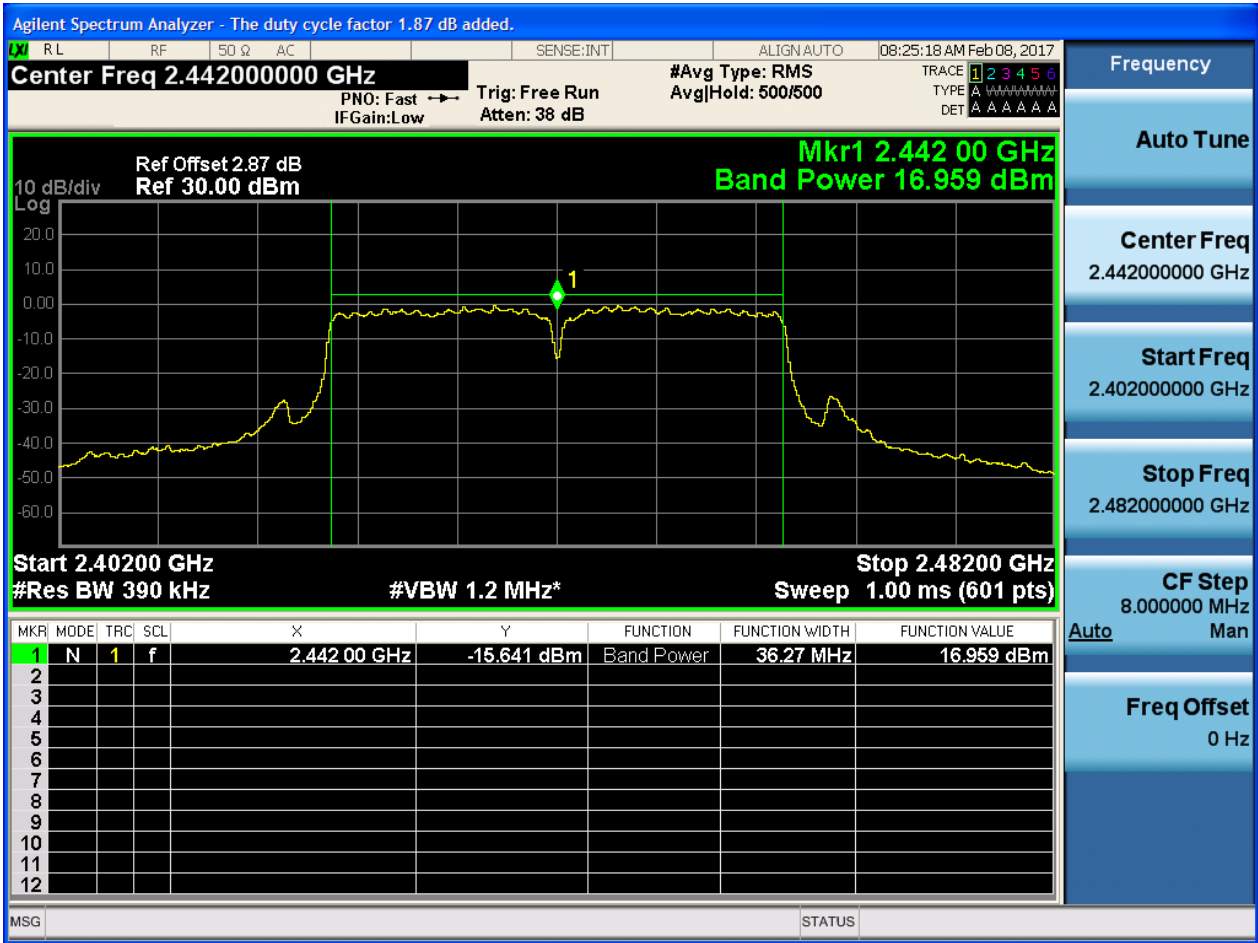


2.25 11N40\_L@Ant 1



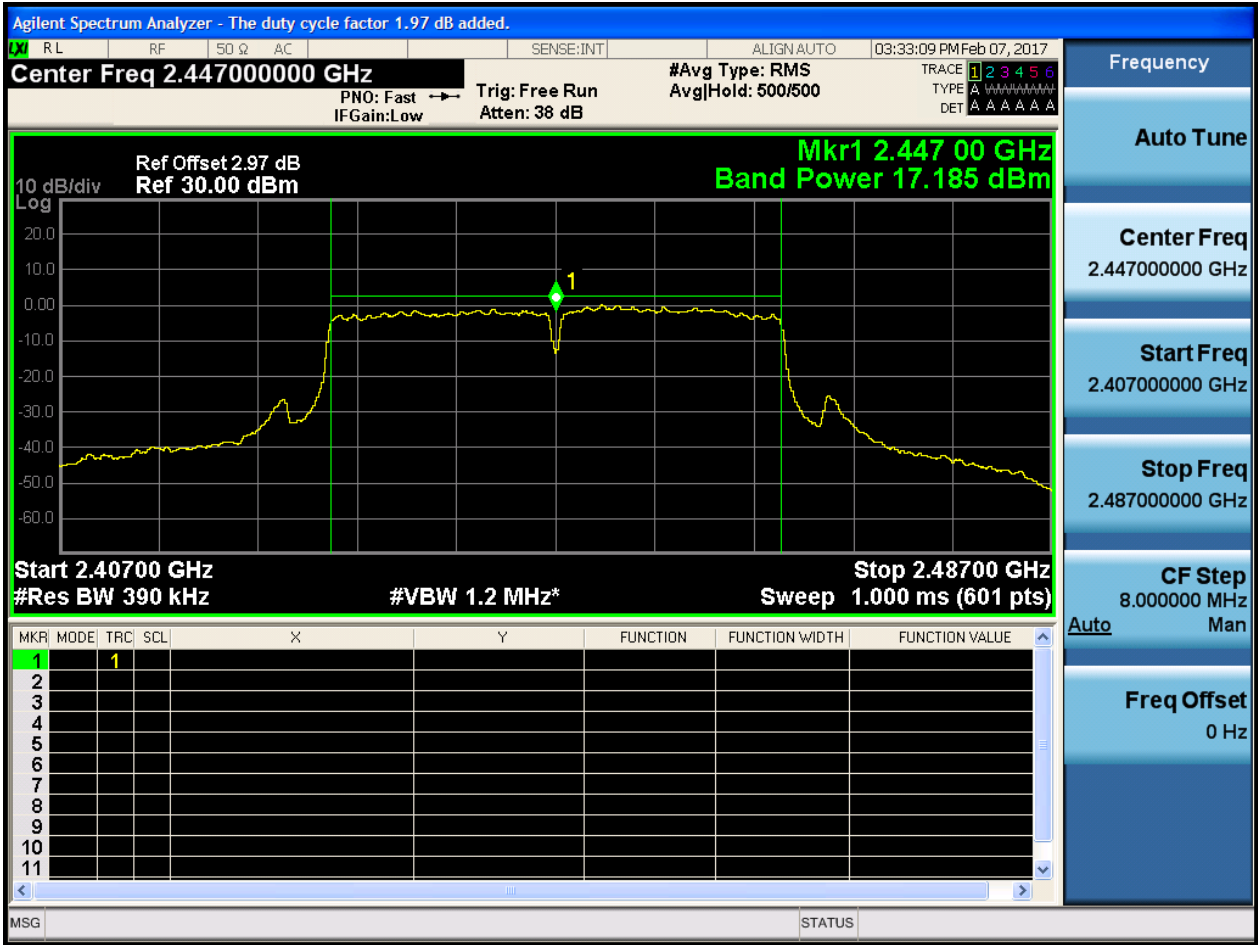


2.26 11N40\_L@Ant 2



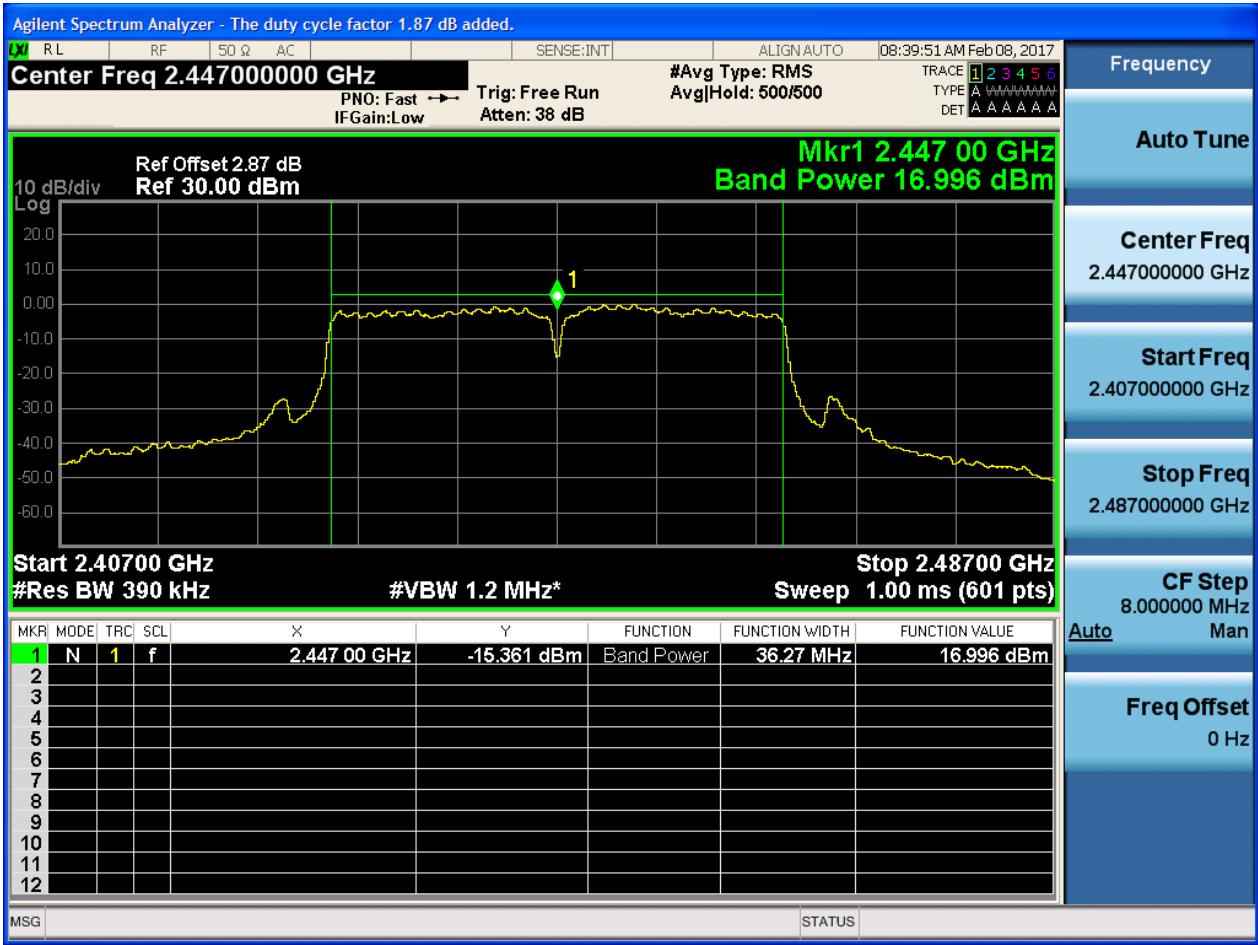


2.27 11N40\_M@Ant 1





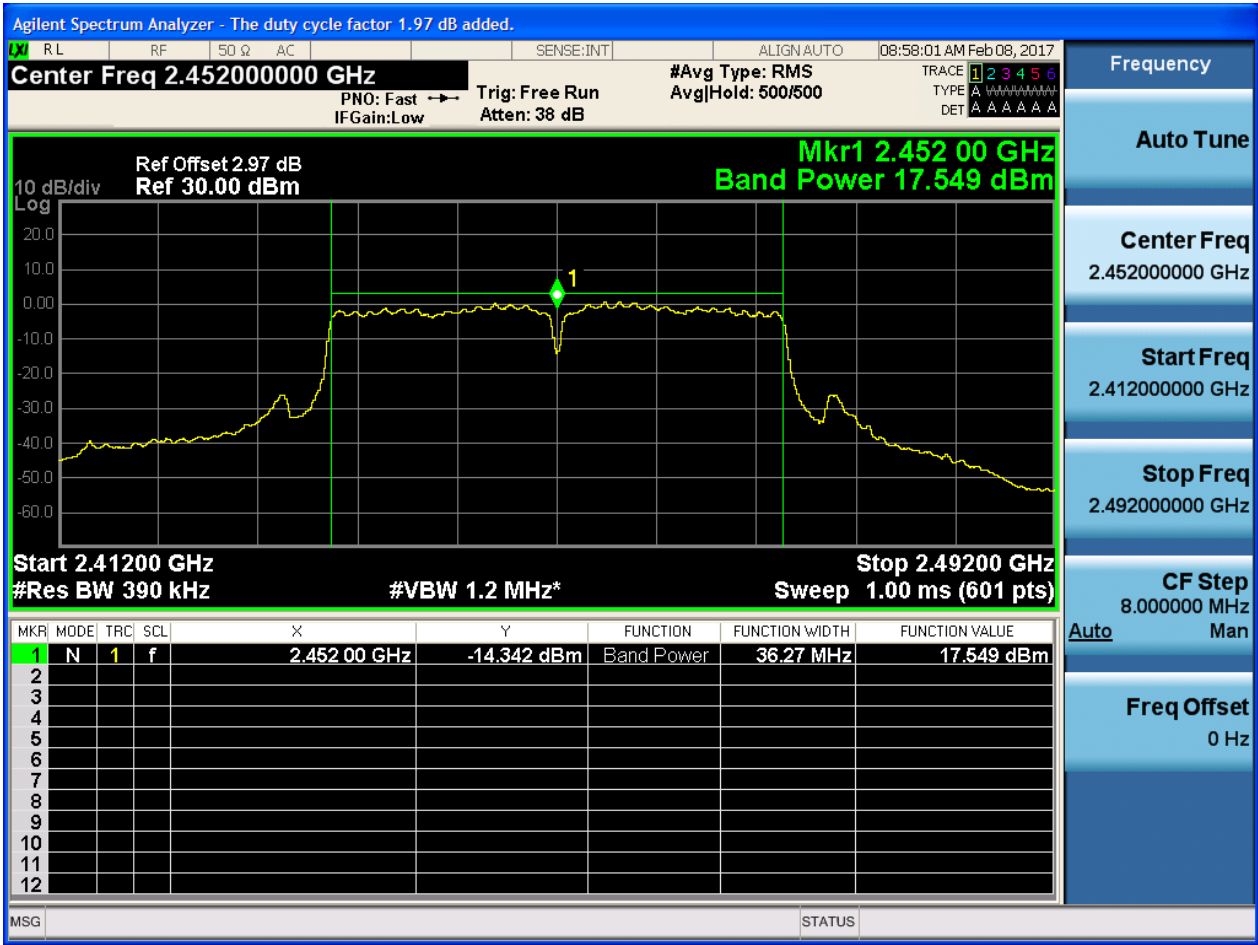
2.28 11N40\_M@Ant 2





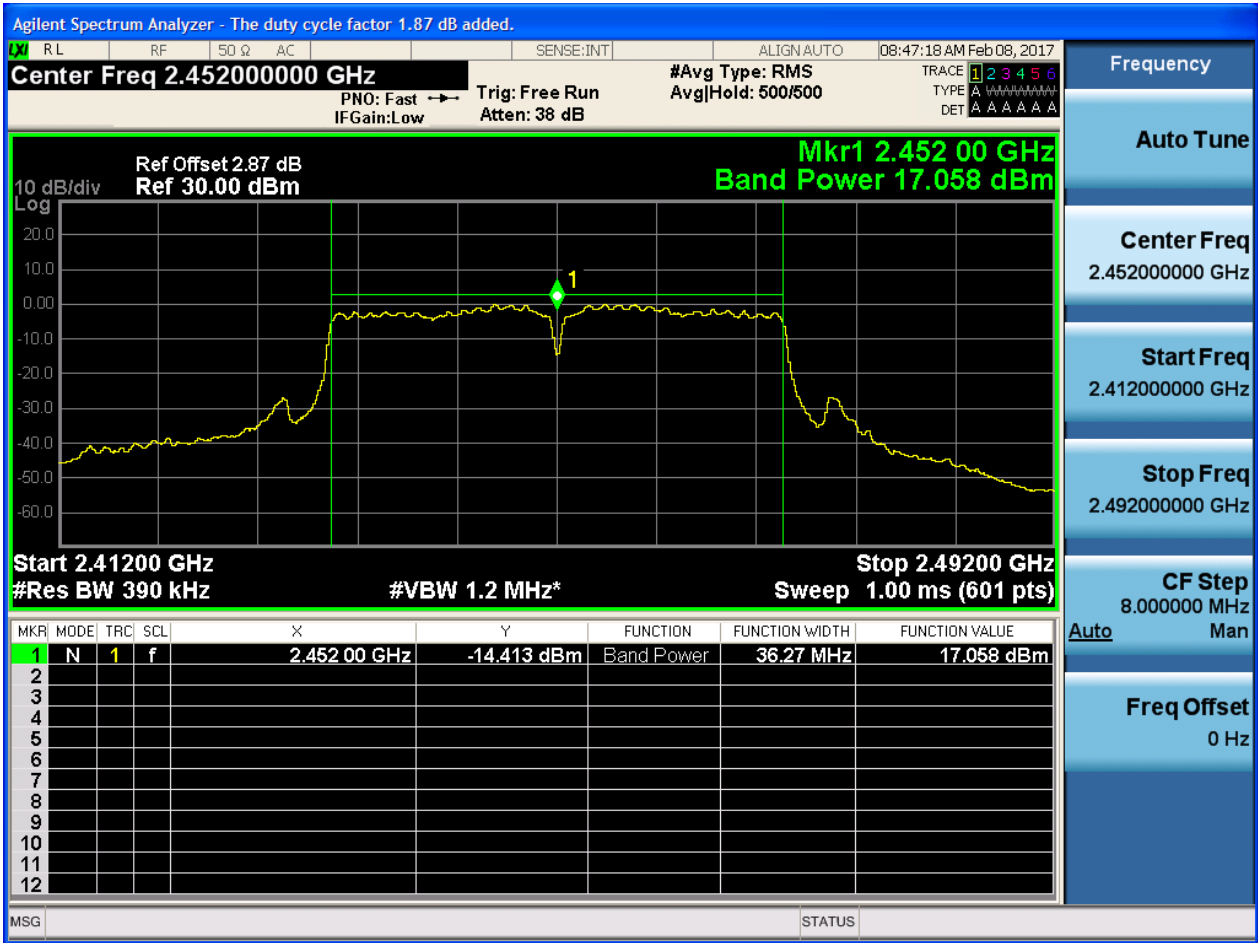


2.29 11N40\_H@Ant 1



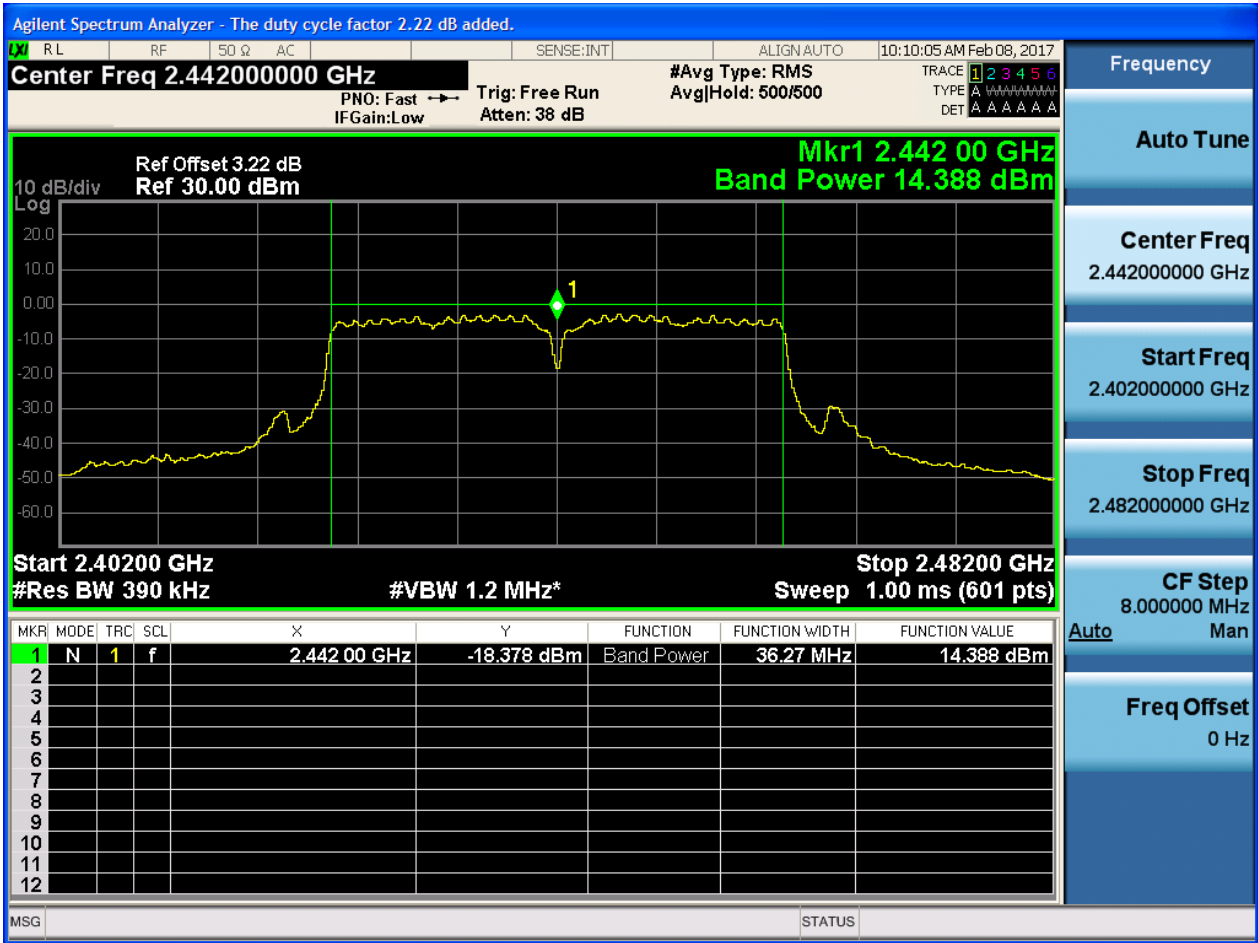


2.30 11N40\_H@Ant 2



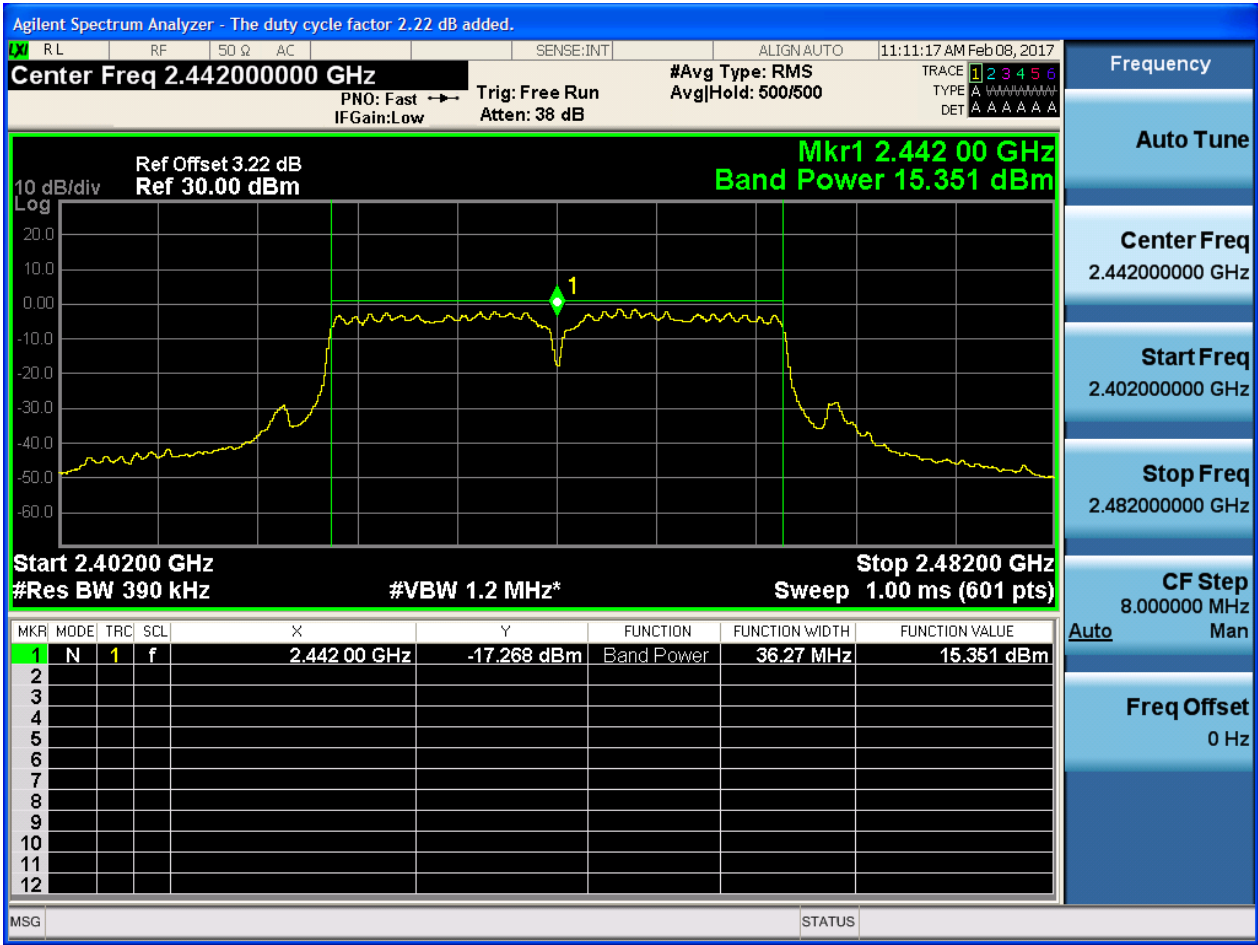


### 2.31 11N40m\_L@Ant 1



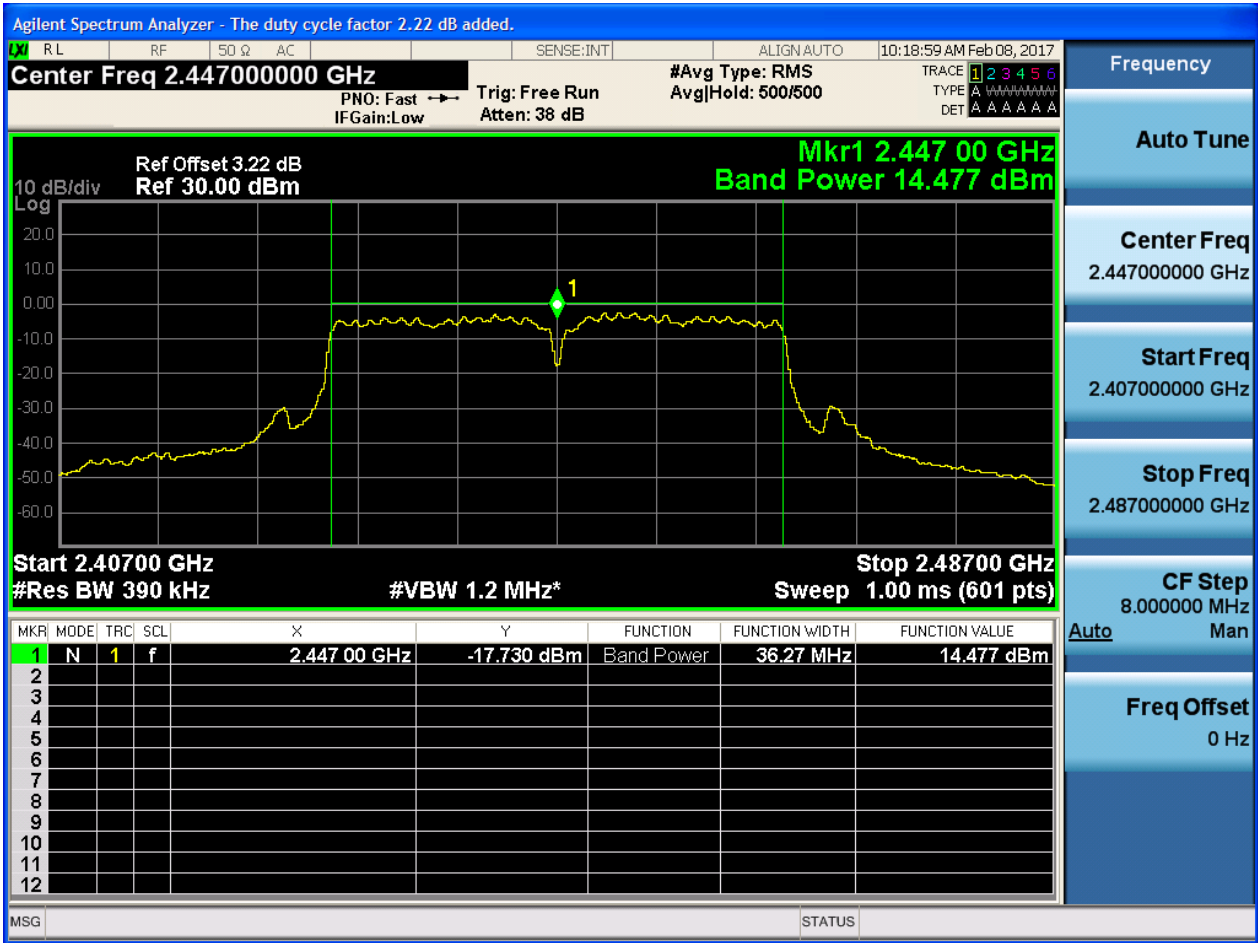


2.32 11N40m\_L@Ant 2



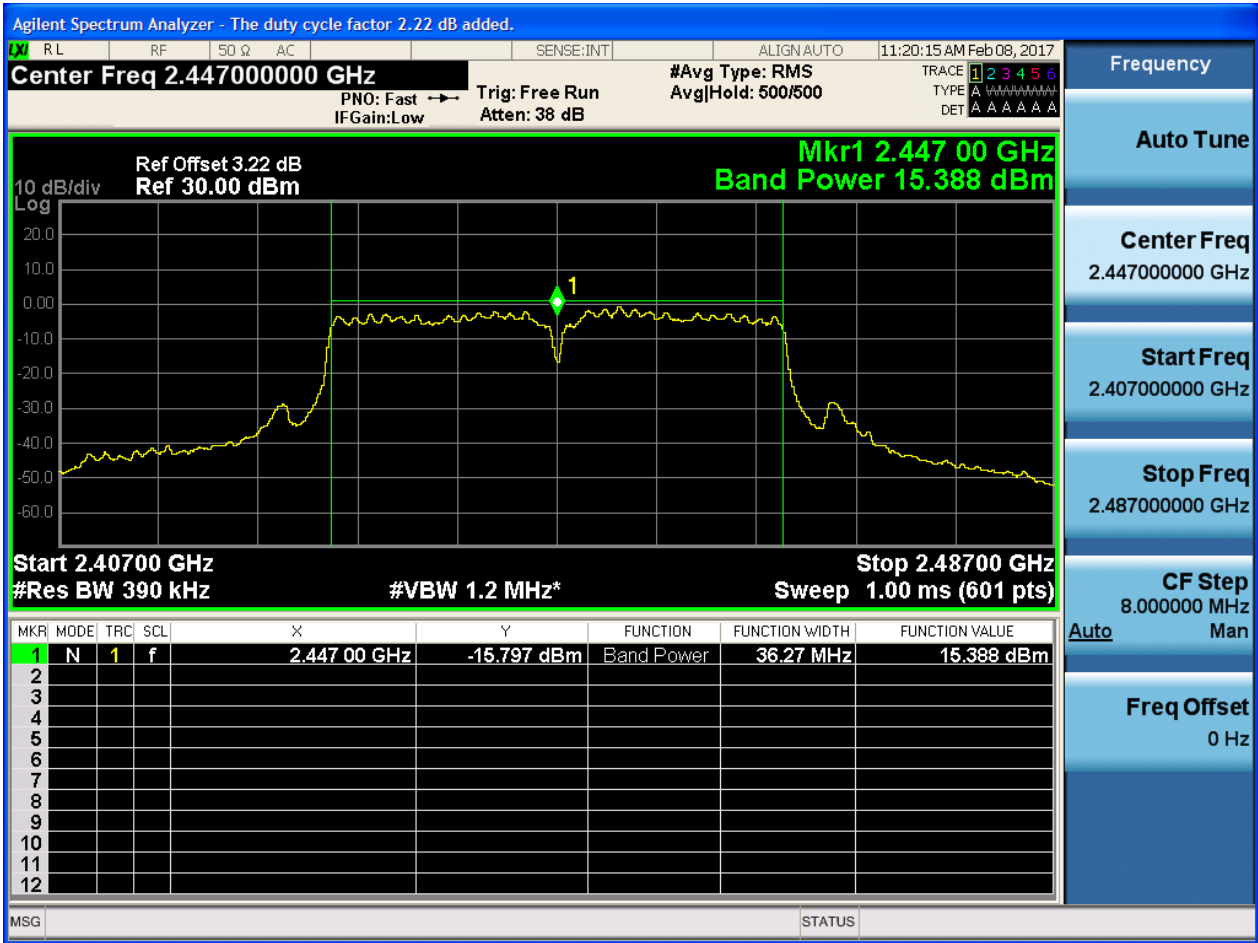


2.33 11N40m\_M@Ant 1



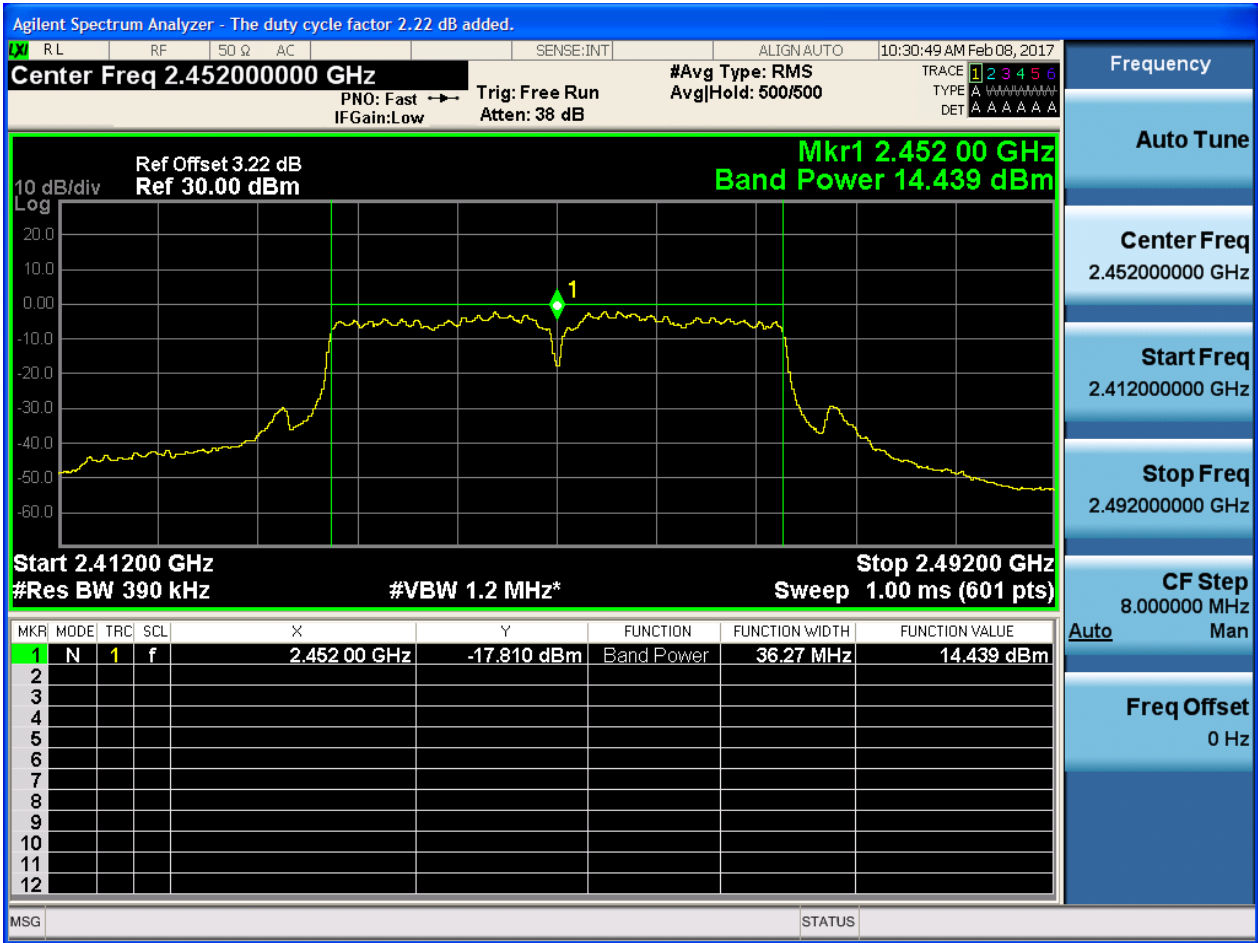


2.34 11N40m\_M@Ant 2



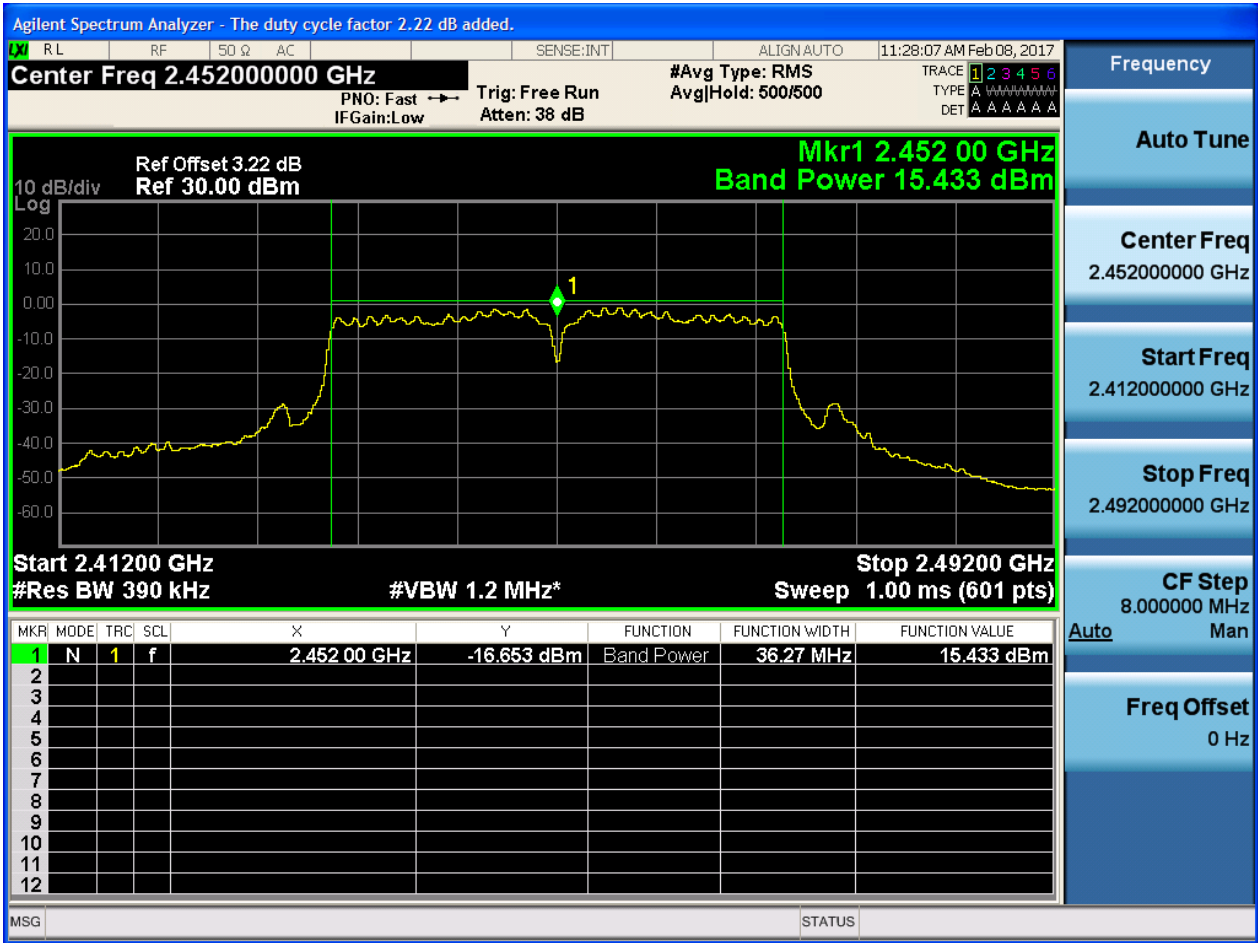


2.35 11N40m\_H@Ant 1





2.36 11N40m\_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	2432	Ant 1	-11.73	pass
11B	L	2432	Ant 2	-11.41	pass
11B	M	2447	Ant 1	-11.12	pass
11B	M	2447	Ant 2	-11.08	pass
11B	H	2462	Ant 1	-10.98	pass
11B	H	2462	Ant 2	-11.26	pass
11G	L	2432	Ant 1	-13.59	pass
11G	L	2432	Ant 2	-13.39	pass
11G	M	2447	Ant 1	-12.71	pass
11G	M	2447	Ant 2	-13.15	pass
11G	H	2462	Ant 1	-12.83	pass
11G	H	2462	Ant 2	-13.27	pass
11N20	L	2432	Ant 1	-12.24	pass
11N20	L	2432	Ant 2	-11.98	pass
11N20	M	2447	Ant 1	-11.60	pass
11N20	M	2447	Ant 2	-12.04	pass
11N20	H	2462	Ant 1	-11.53	pass
11N20	H	2462	Ant 2	-12.11	pass
11N20m	L	2432	Ant 1	-13.04	pass
11N20m	L	2432	Ant 2	-12.19	pass
11N20m	L	2432	SUM	-9.58	pass
11N20m	M	2447	Ant 1	-12.92	pass
11N20m	M	2447	Ant 2	-12.41	pass
11N20m	M	2447	SUM	-9.65	pass
11N20m	H	2462	Ant 1	-13.12	pass
11N20m	H	2462	Ant 2	-12.32	pass
11N20m	H	2462	SUM	-9.69	pass
11N40	L	2442	Ant 1	-13.99	pass
11N40	L	2442	Ant 2	-14.41	pass
11N40	M	2447	Ant 1	-13.42	pass
11N40	M	2447	Ant 2	-13.86	pass
11N40	H	2452	Ant 1	-13.09	pass
11N40	H	2452	Ant 2	-13.59	pass
11N40m	L	2442	Ant 1	-16.09	pass
11N40m	L	2442	Ant 2	-14.84	pass
11N40m	L	2442	SUM	-12.41	pass

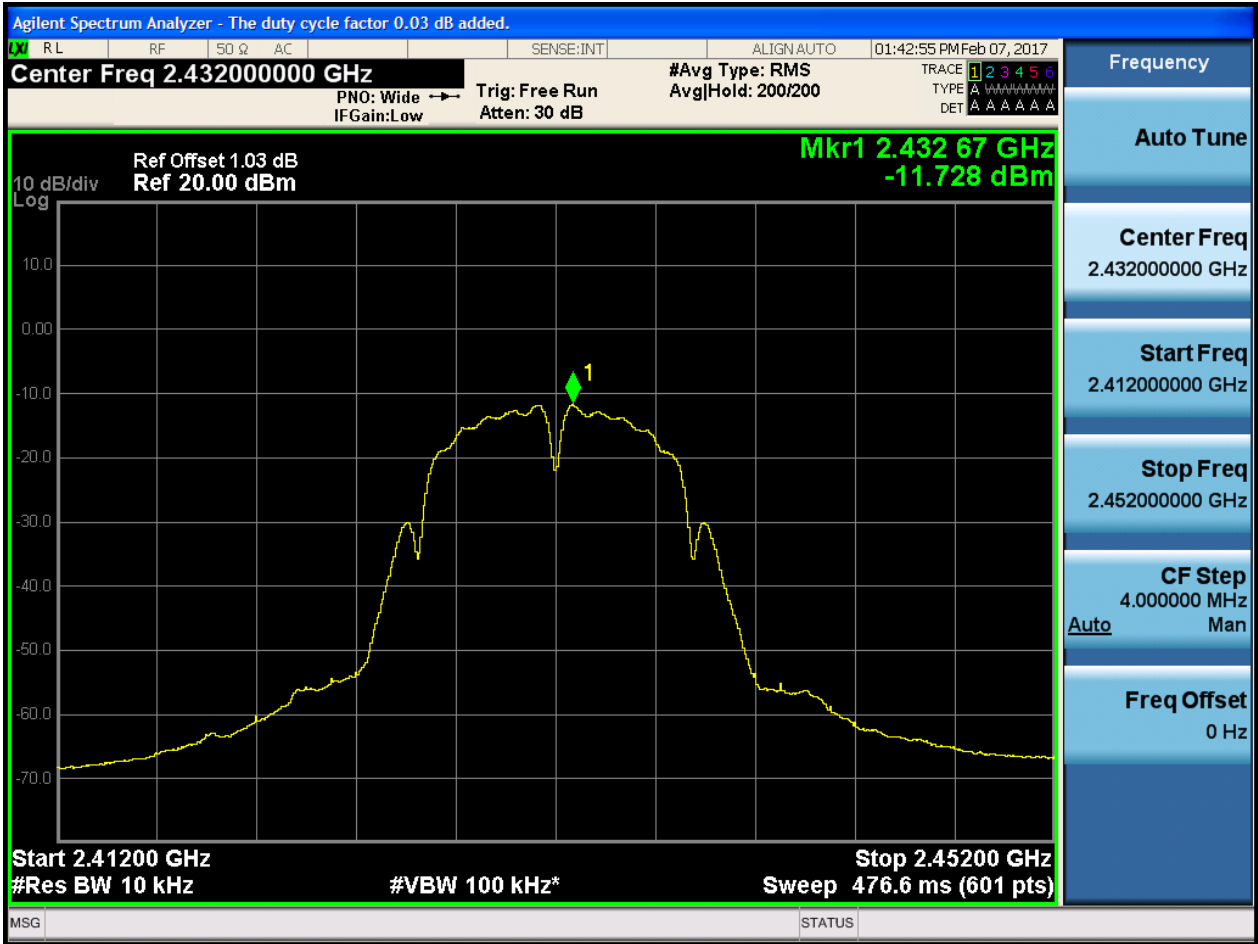


Test Mode	Test Channel	Frequency[MHz]	Ant	PD[MHz]	Verdict
11N40m	M	2447	Ant 2	-15.95	pass
11N40m	M	2447	Ant 2	-14.24	pass
11N40m	M	2447	SUM	-12	pass
11N40m	H	2452	Ant 1	-15.54	pass
11N40m	H	2452	Ant 2	-14.06	pass
11N40m	H	2452	SUM	-11.73	pass



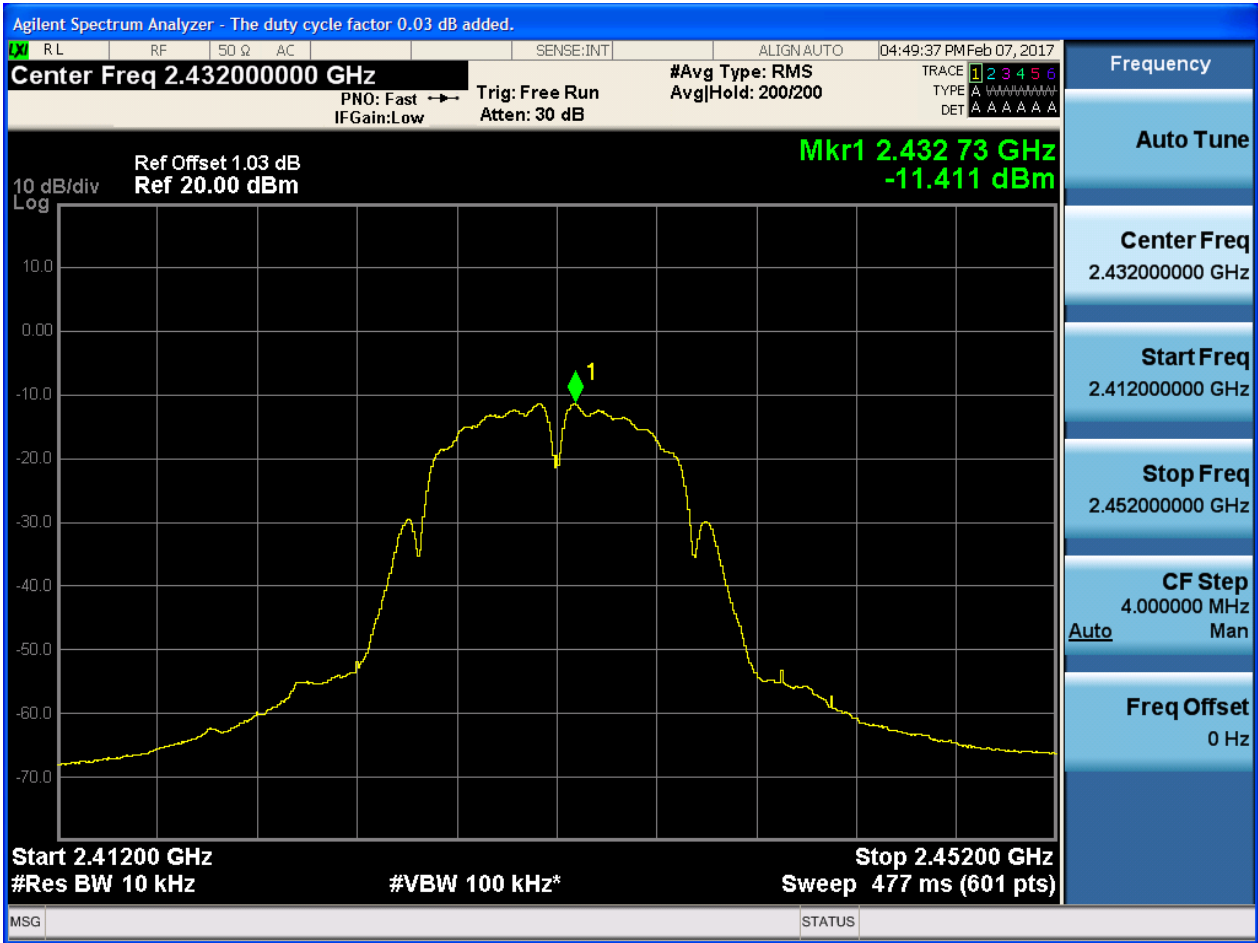
## Part II - Test Plots

### 2.1 11B\_L@Ant 1





2.2 11B\_L@Ant 2





### 2.3 11B\_M@Ant 1

