Appendix for Test report

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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	8.58	pass
11B	M	2437	Ant 1	8.13	pass
11B	H	2457	Ant 1	8.13	pass
11B	H	2462	Ant 1	8.58	pass
11G	L	2412	Ant 1	16.44	pass
11G	L	2417	Ant 1	16.39	pass
11G	M	2437	Ant 1	16.41	pass
11G	H	2457	Ant 1	16.41	pass
11G	H	2462	Ant 1	16.41	pass
11N20	L	2412	Ant 1	17.63	pass
11N20	L	2417	Ant 1	17.59	pass
11N20	M	2437	Ant 1	17.61	pass
11N20	H	2457	Ant 1	17.62	pass
11N20	H	2462	Ant 1	17.62	pass
11N40	L	2422	Ant 1	35.22	pass
11N40	L	2427	Ant 1	35.19	pass
11N40	M	2437	Ant 1	35.22	pass
11N40	H	2447	Ant 1	35.70	pass
11N40	H	2452	Ant 1	35.80	pass

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Part II - Test Plots

2.1 11B_L_2412@Ant 1

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2.2 11B_M_2437@Ant 1

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2.3 11B_M_2457@Ant 1

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2.4 11B_H_2462@Ant 1

Copyright © Huawei Technologies Co., Ltd.

2.5 11G_L_2412@Ant 1

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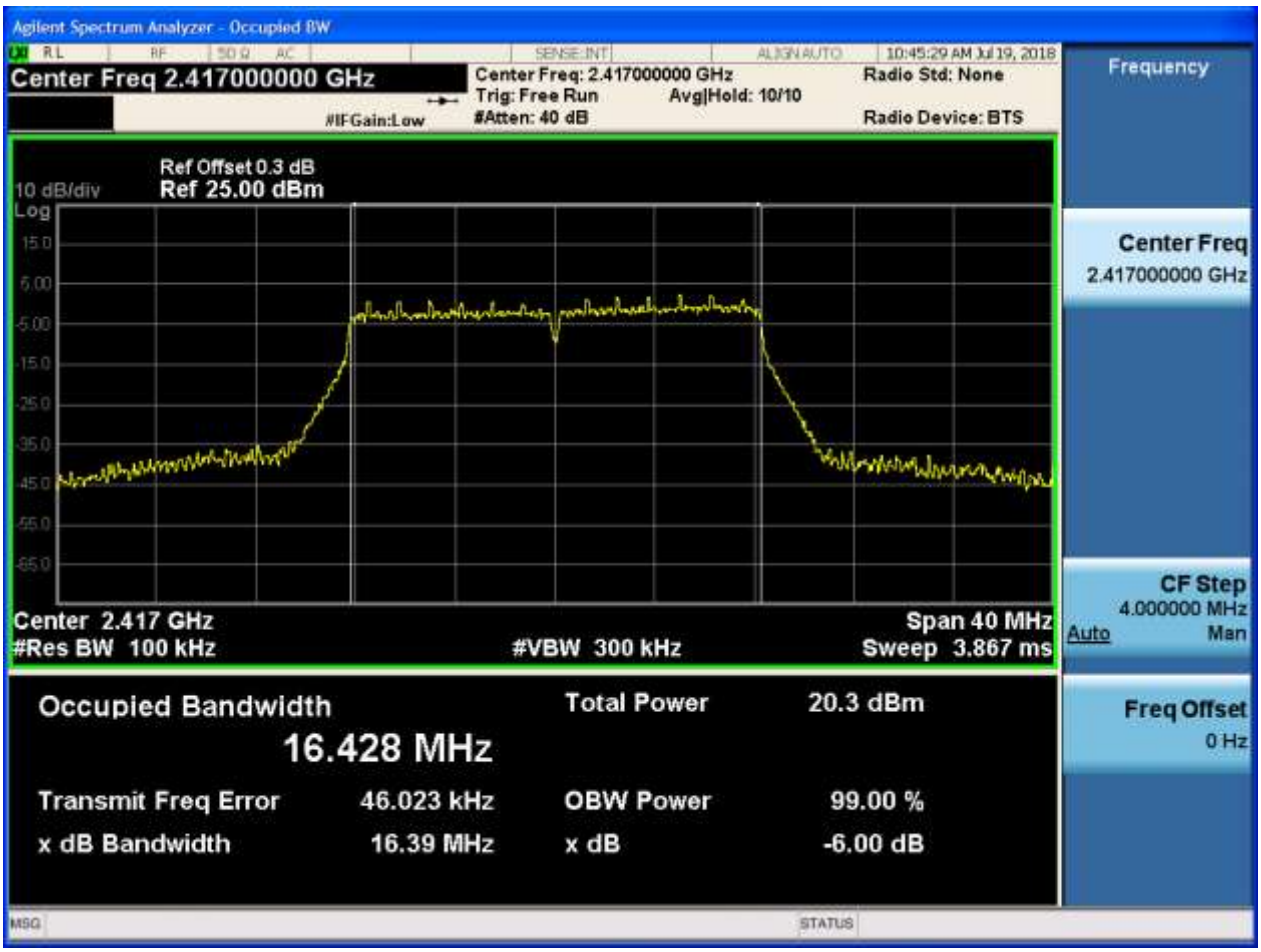
2.6 11G_M_2417@Ant 1



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2.7 11G_M_2437@Ant 1

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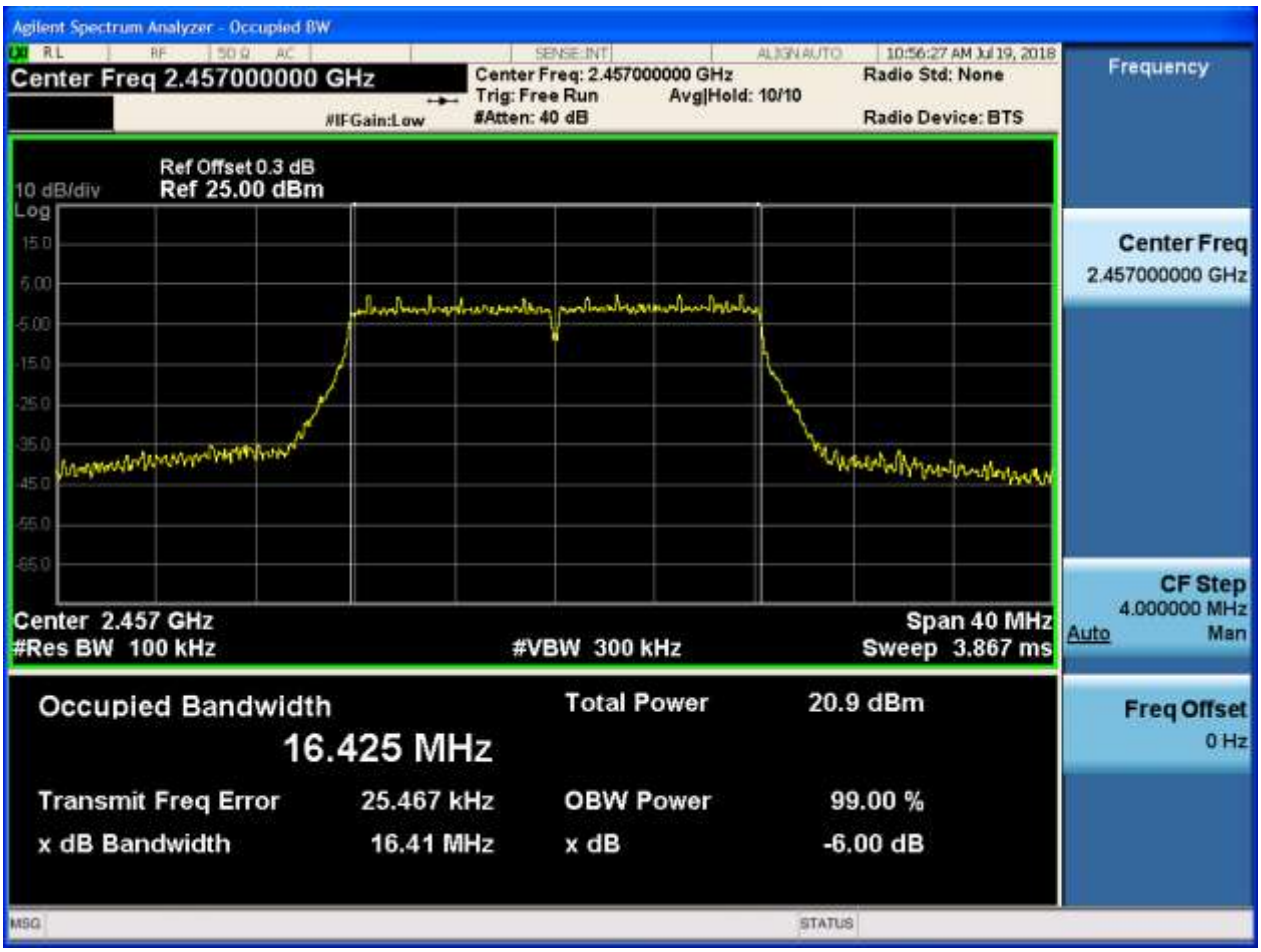
2.8 11G_H_2457@Ant 1



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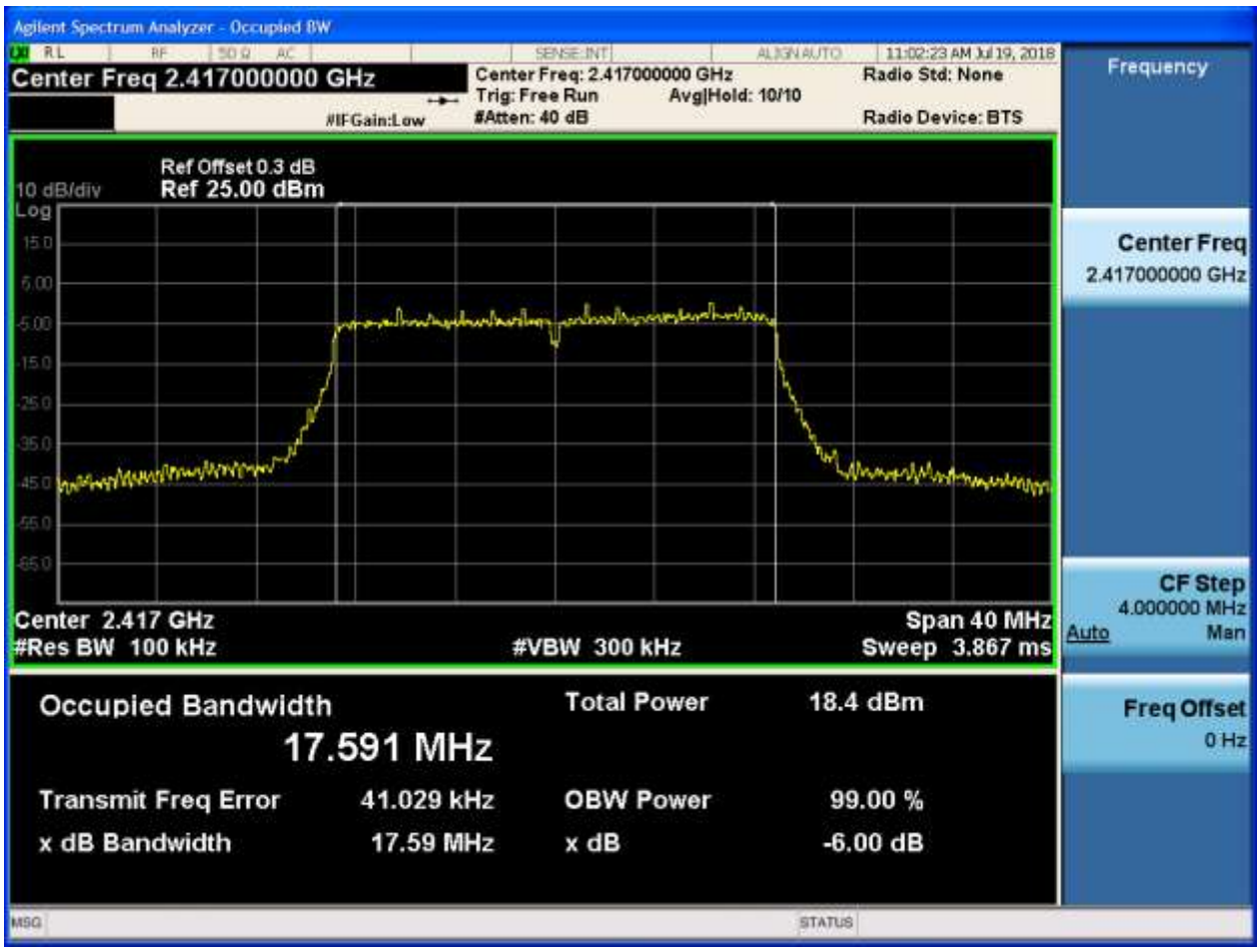
2.9 11G_H_2462@Ant 1

Copyright © Huawei Technologies Co., Ltd.

2.10 11N20_L_2412@Ant 1

Copyright © Huawei Technologies Co., Ltd.

2.11 11N20_L_2417@Ant 1



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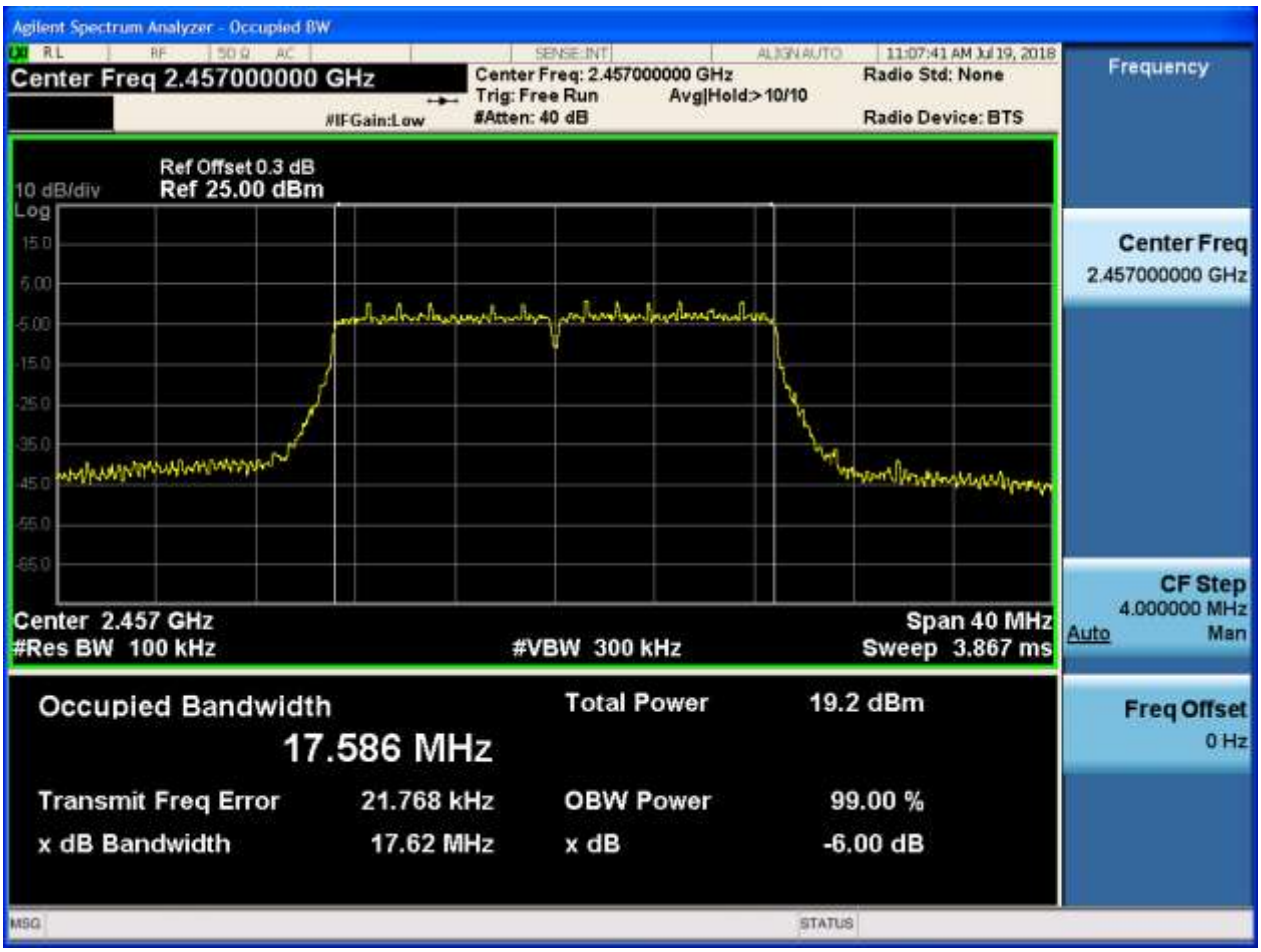
2.12 11N20_M_2437@Ant 1

Copyright © Huawei Technologies Co., Ltd.

2.13 11N20_H_2457@Ant 1



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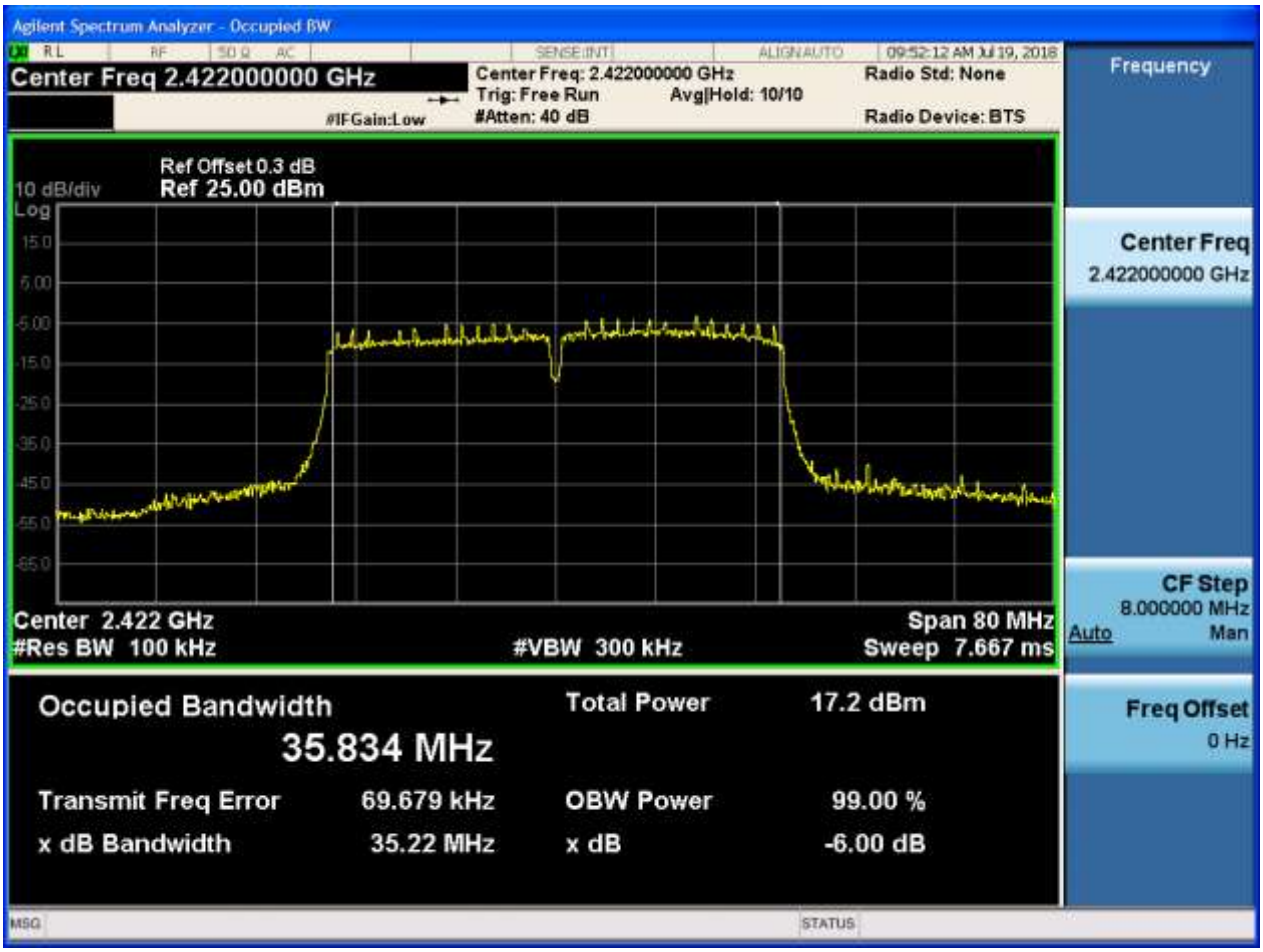
2.14 11N20_H_2462@Ant 1

Copyright © Huawei Technologies Co., Ltd.

2.15 11N40_L_2422@Ant 1



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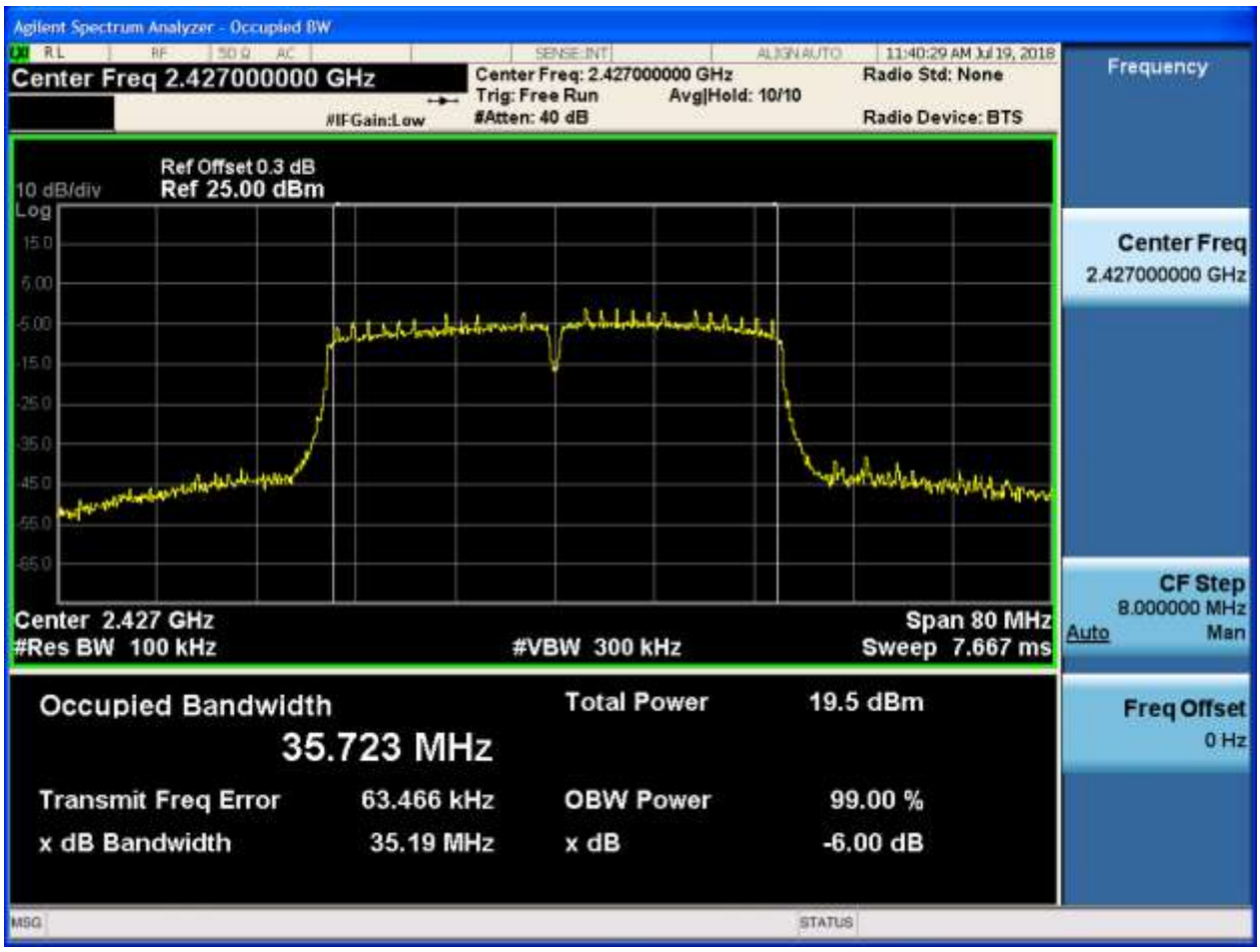
2.16 11N40_L_2427@Ant 1



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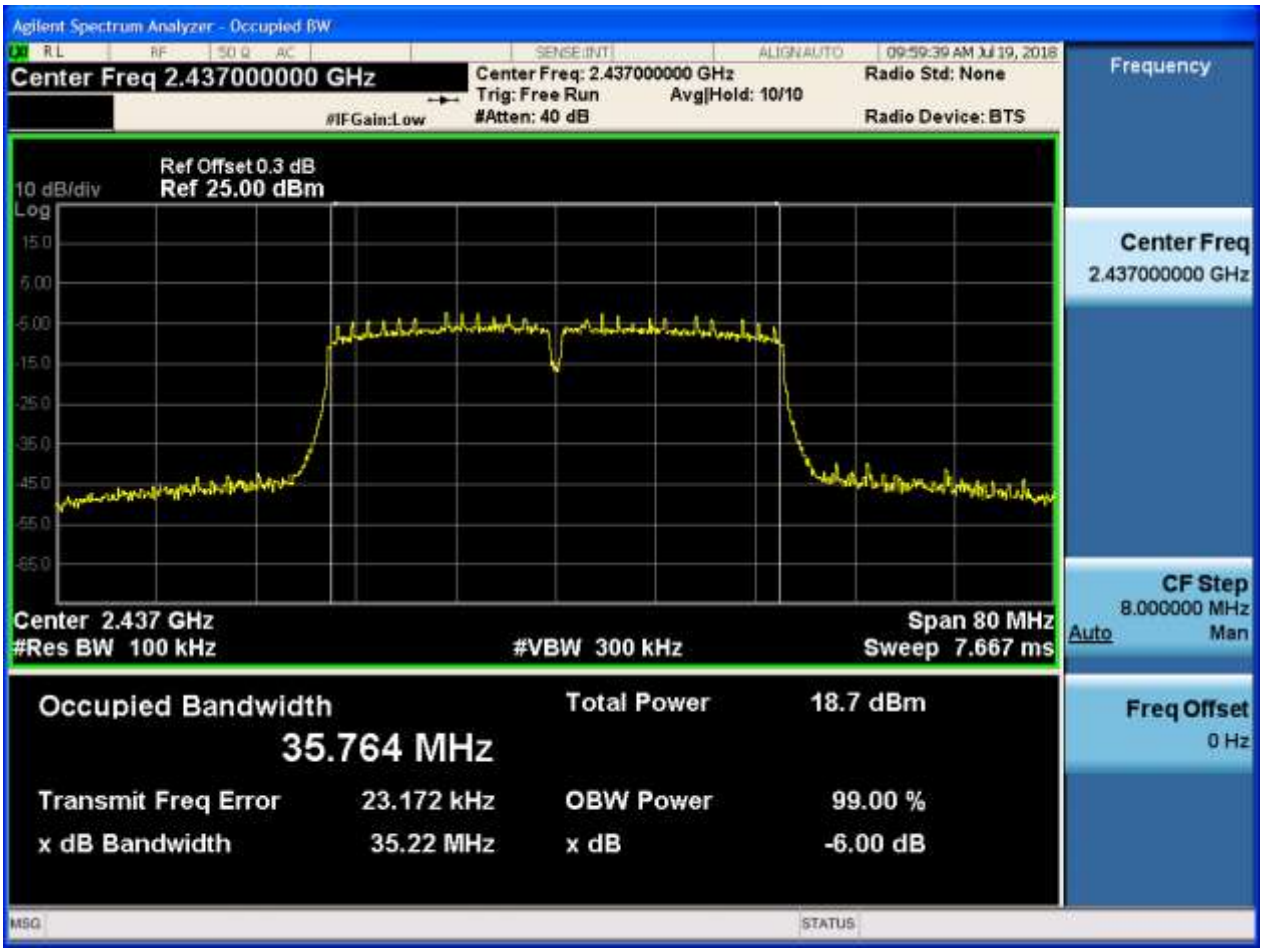
2.17 11N40_M_2437@Ant 1



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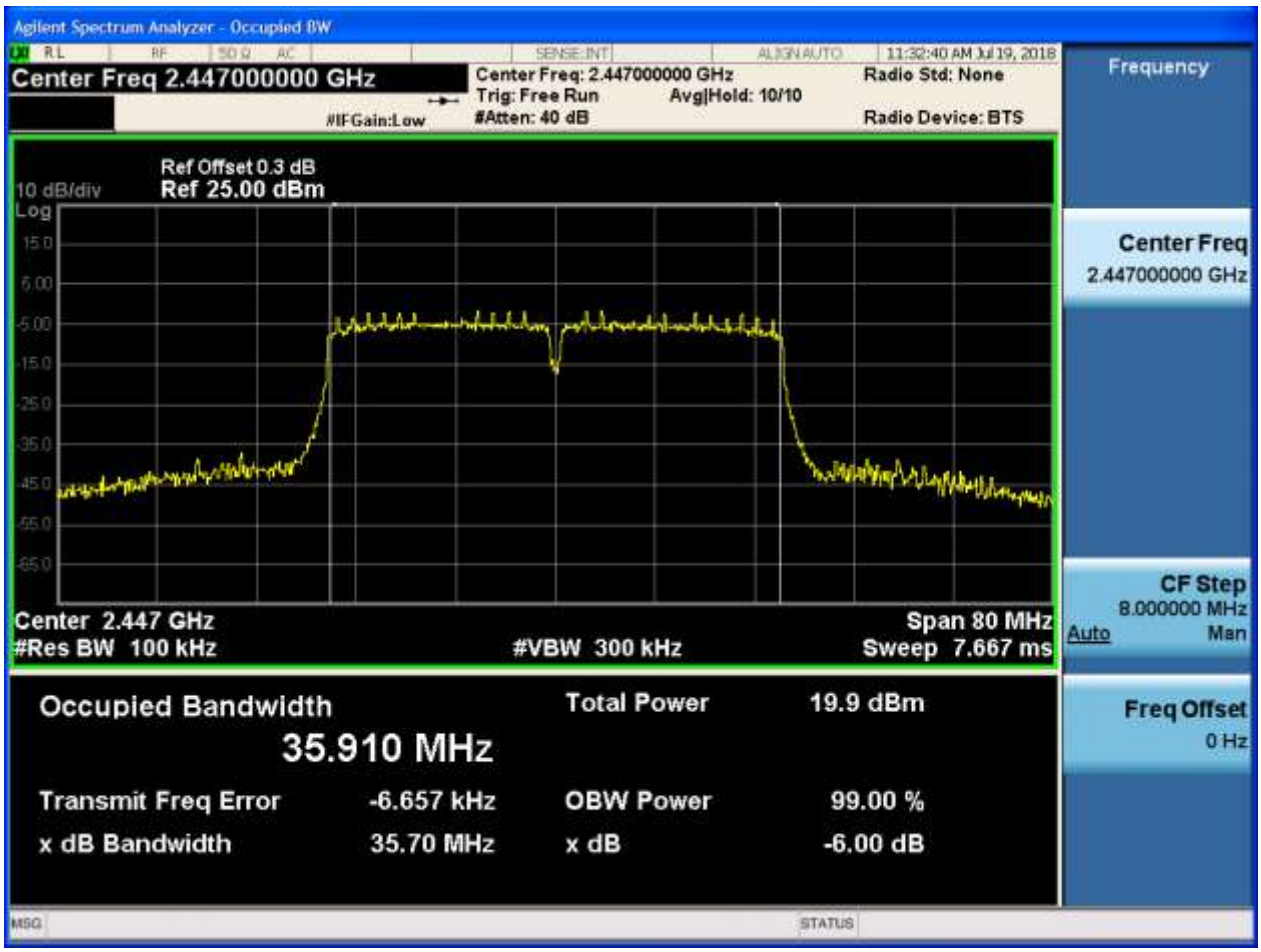

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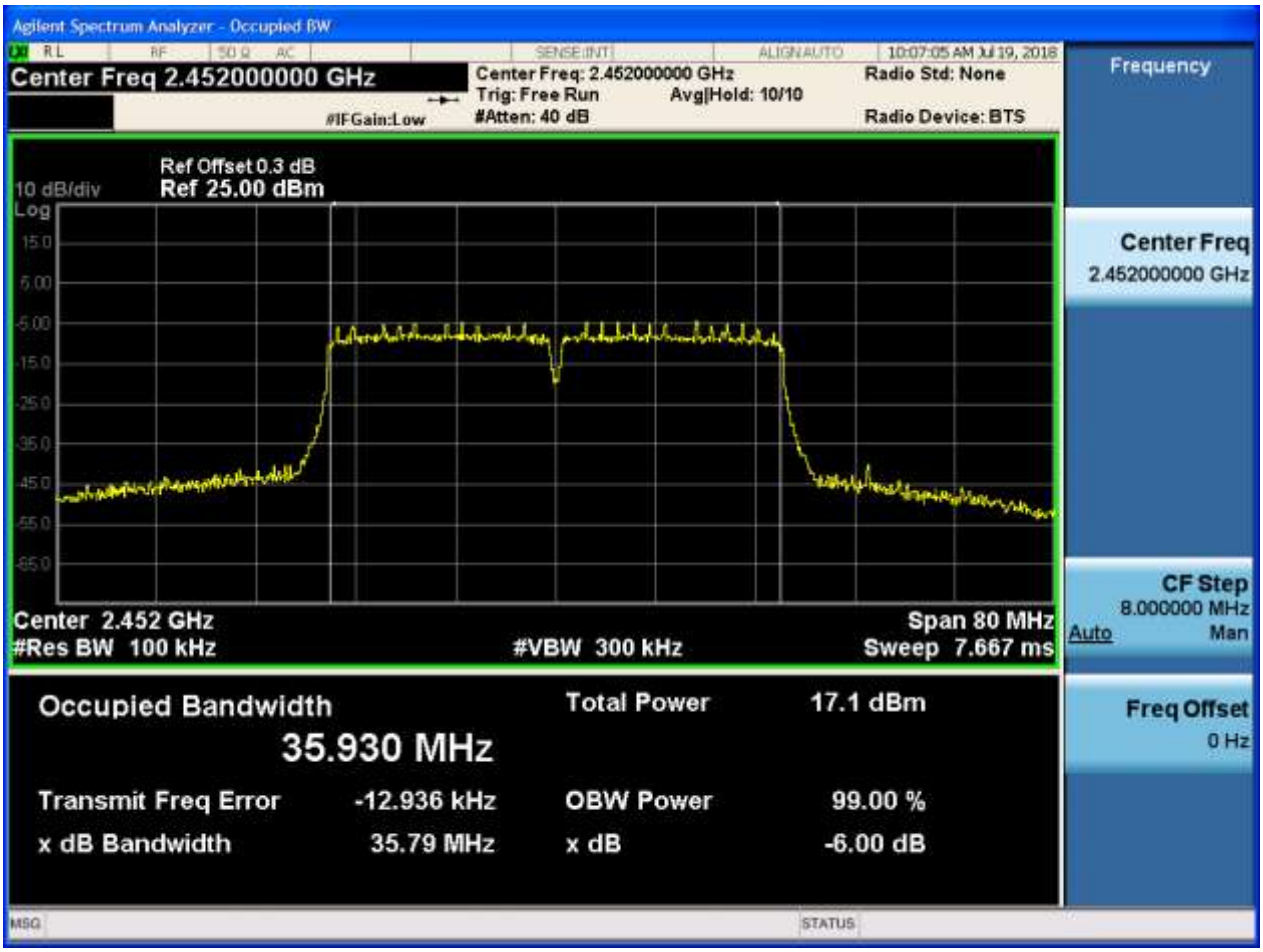
2.19 11N40_H_2452@Ant 1



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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	10.81	pass
11B	M	2437	Ant 1	10.76	pass
11B	H	2457	Ant 1	10.63	pass
11B	H	2462	Ant 1	11.10	pass
11G	L	2412	Ant 1	16.53	pass
11G	L	2417	Ant 1	16.53	pass
11G	M	2437	Ant 1	16.46	pass
11G	H	2457	Ant 1	16.51	pass
11G	H	2462	Ant 1	16.50	pass
11N20	L	2412	Ant 1	17.63	pass
11N20	L	2417	Ant 1	17.63	pass
11N20	M	2437	Ant 1	17.59	pass
11N20	H	2457	Ant 1	17.61	pass
11N20	H	2462	Ant 1	17.60	pass
11N40	L	2422	Ant 1	35.89	pass
11N40	L	2427	Ant 1	38.80	pass
11N40	M	2437	Ant 1	35.78	pass
11N40	H	2447	Ant 1	35.96	pass
11N40	H	2452	Ant 1	36.02	pass

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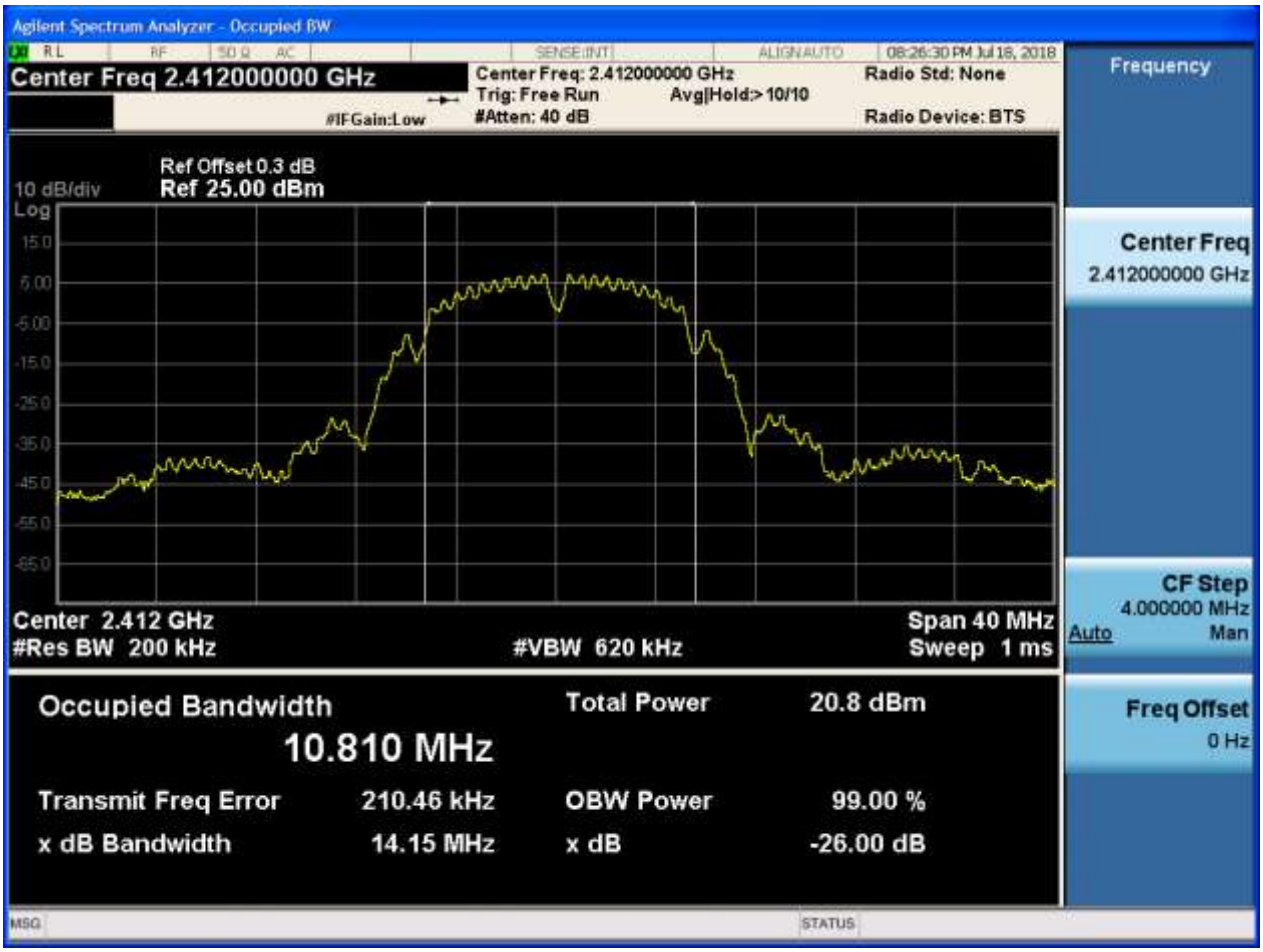
Part II - Test Plots

2.1 11B_L_2412@Ant 1



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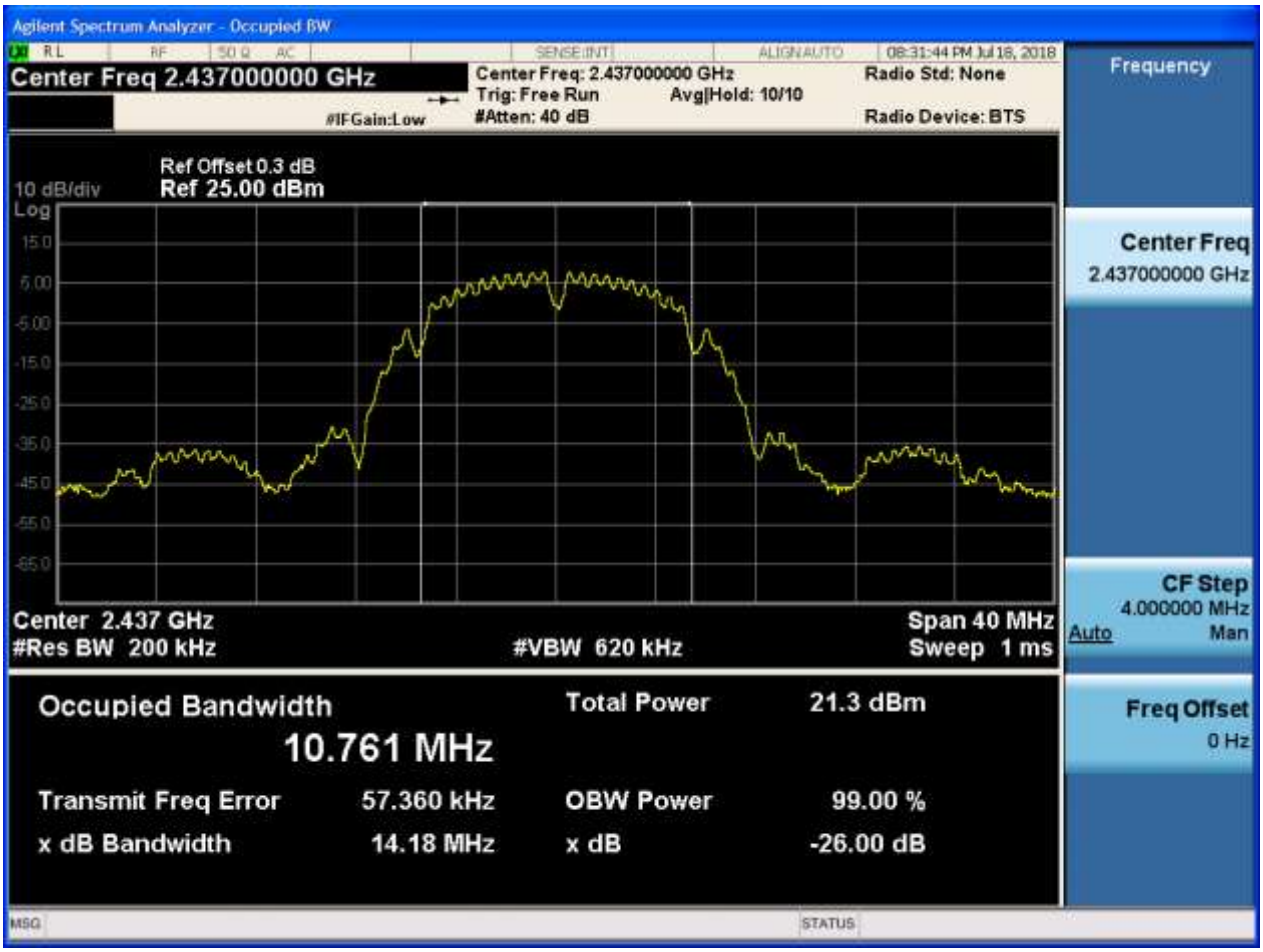

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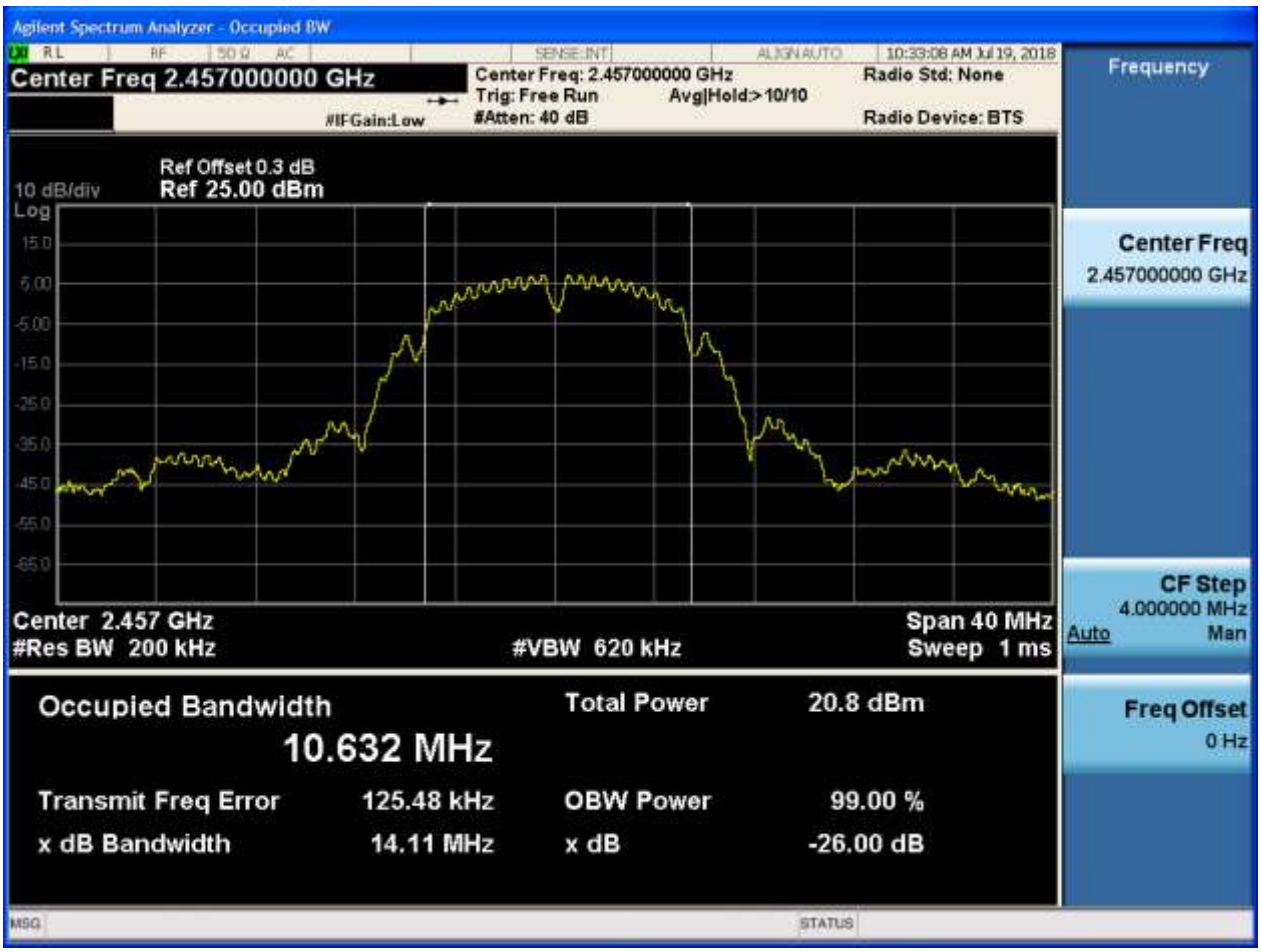
2.3 11B_H_2457@Ant 1



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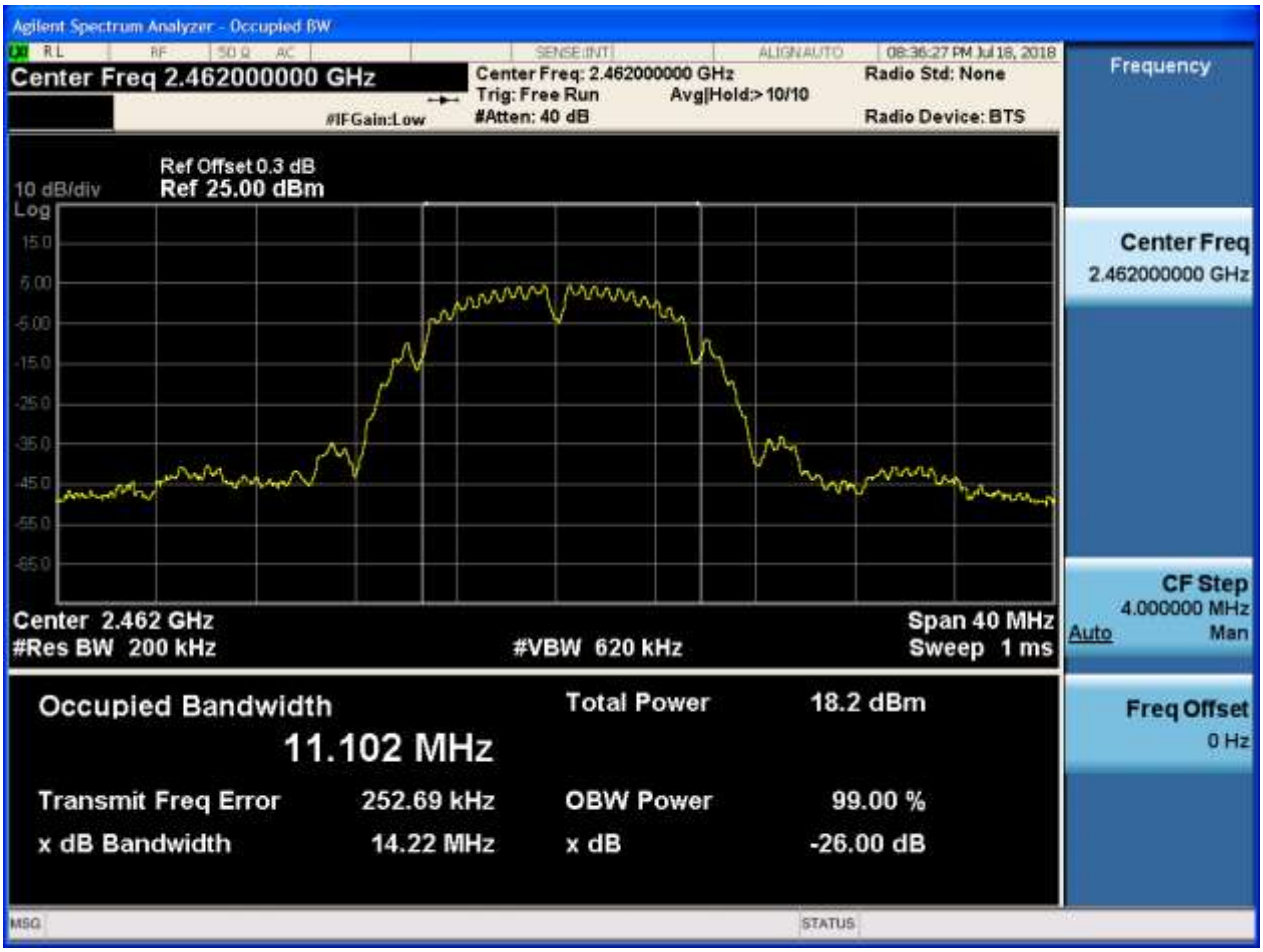
2.4 11B_H_2462@Ant 1



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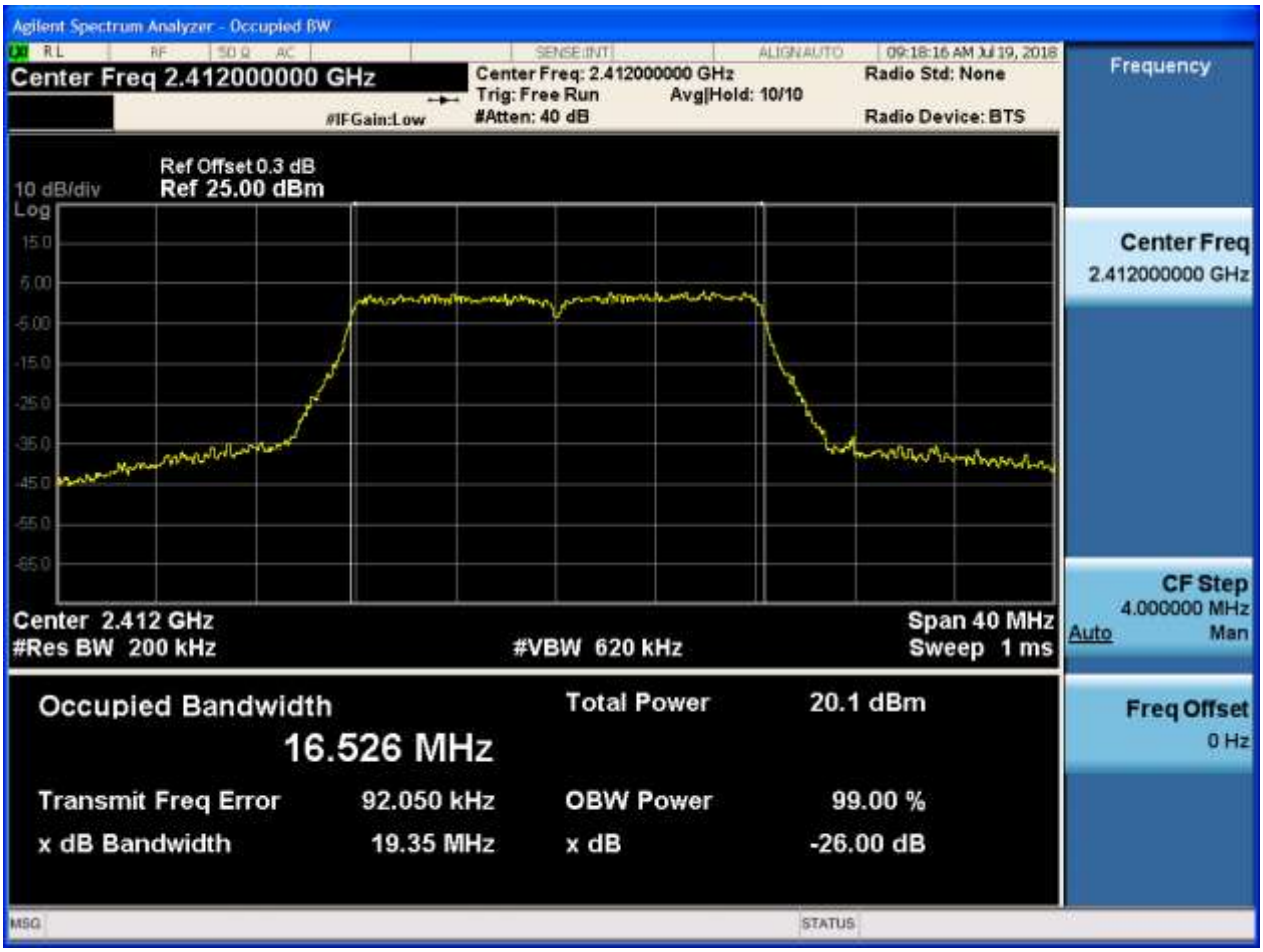
2.5 11G_L_2412@Ant 1



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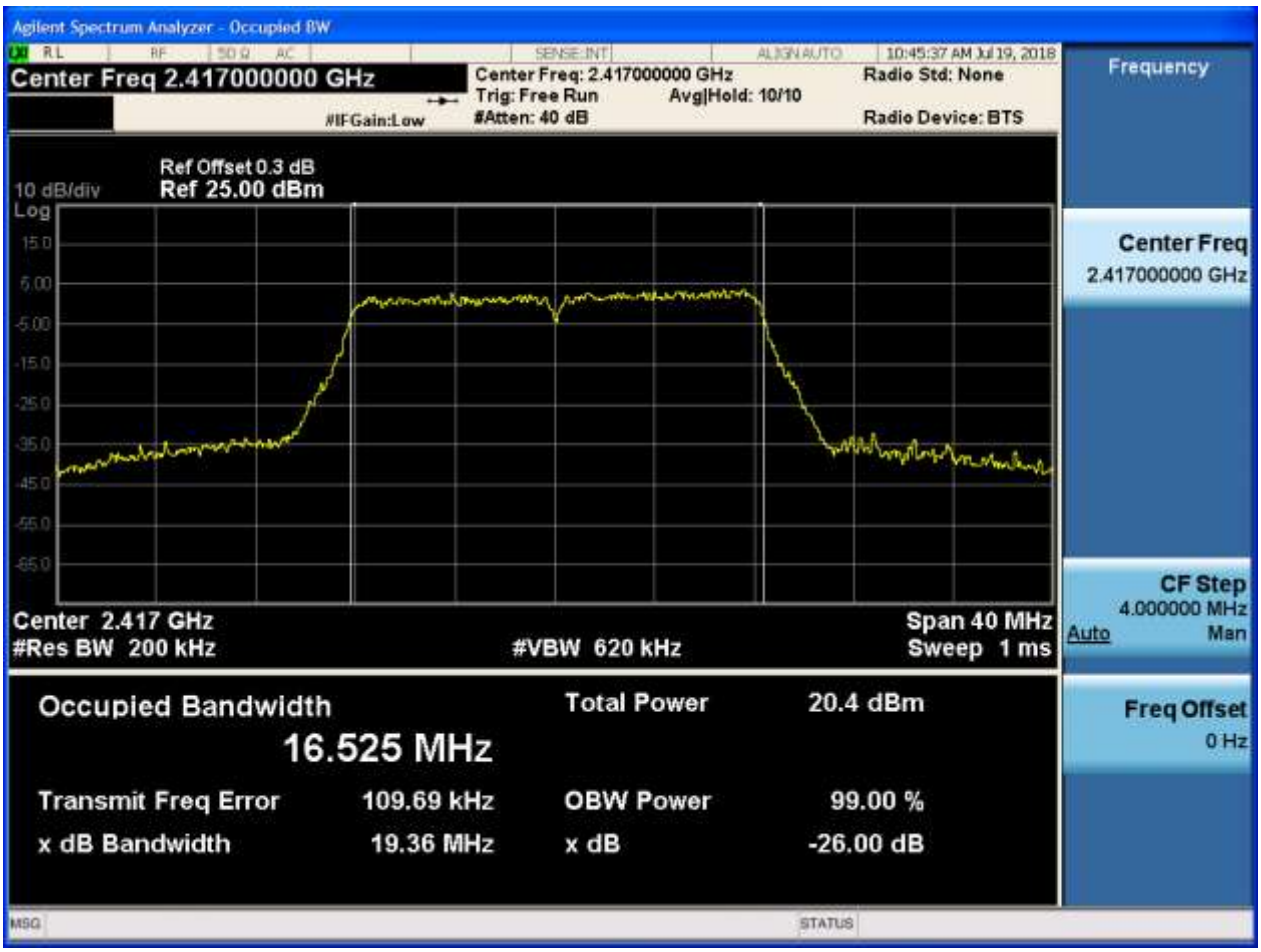

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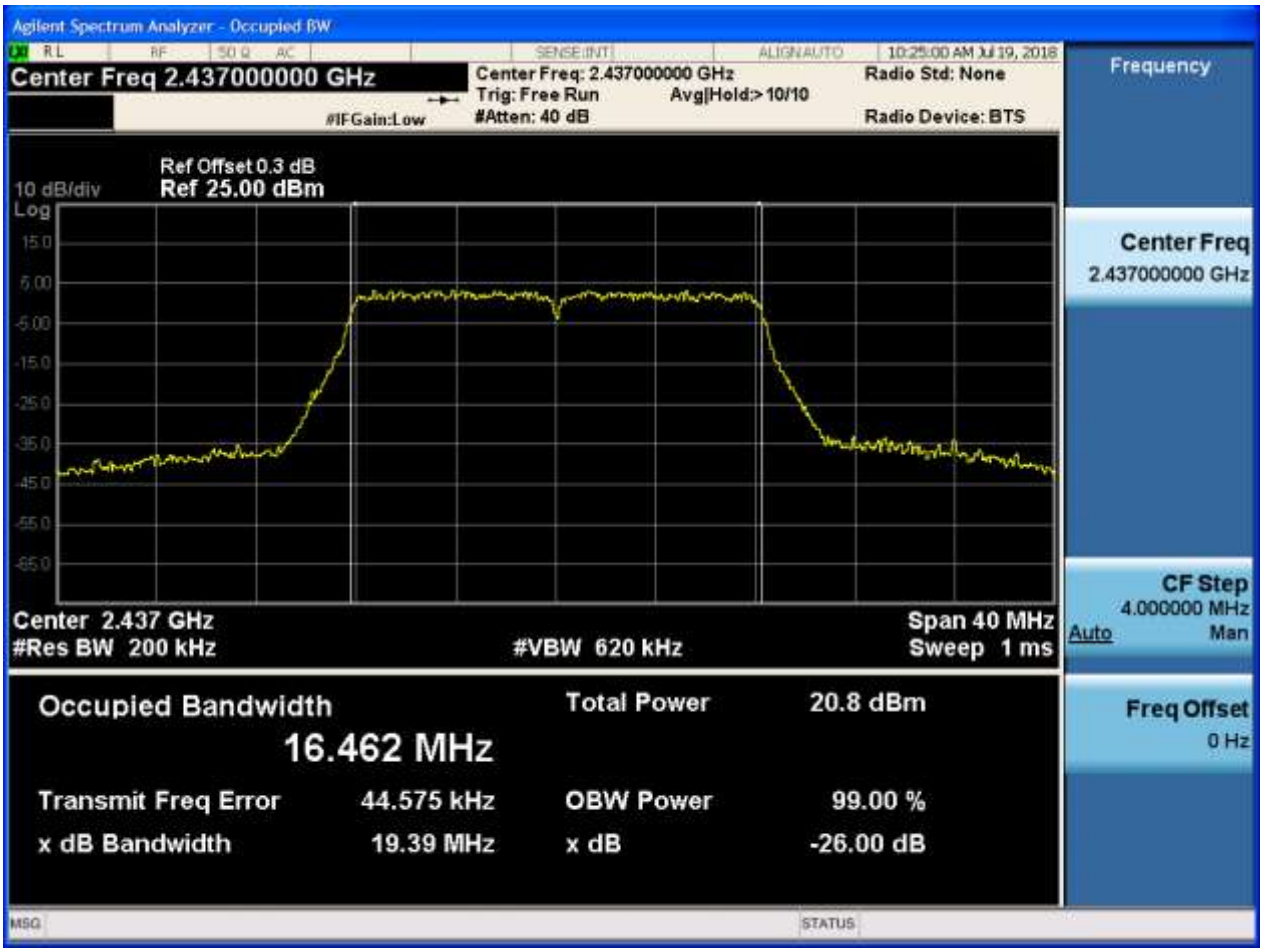

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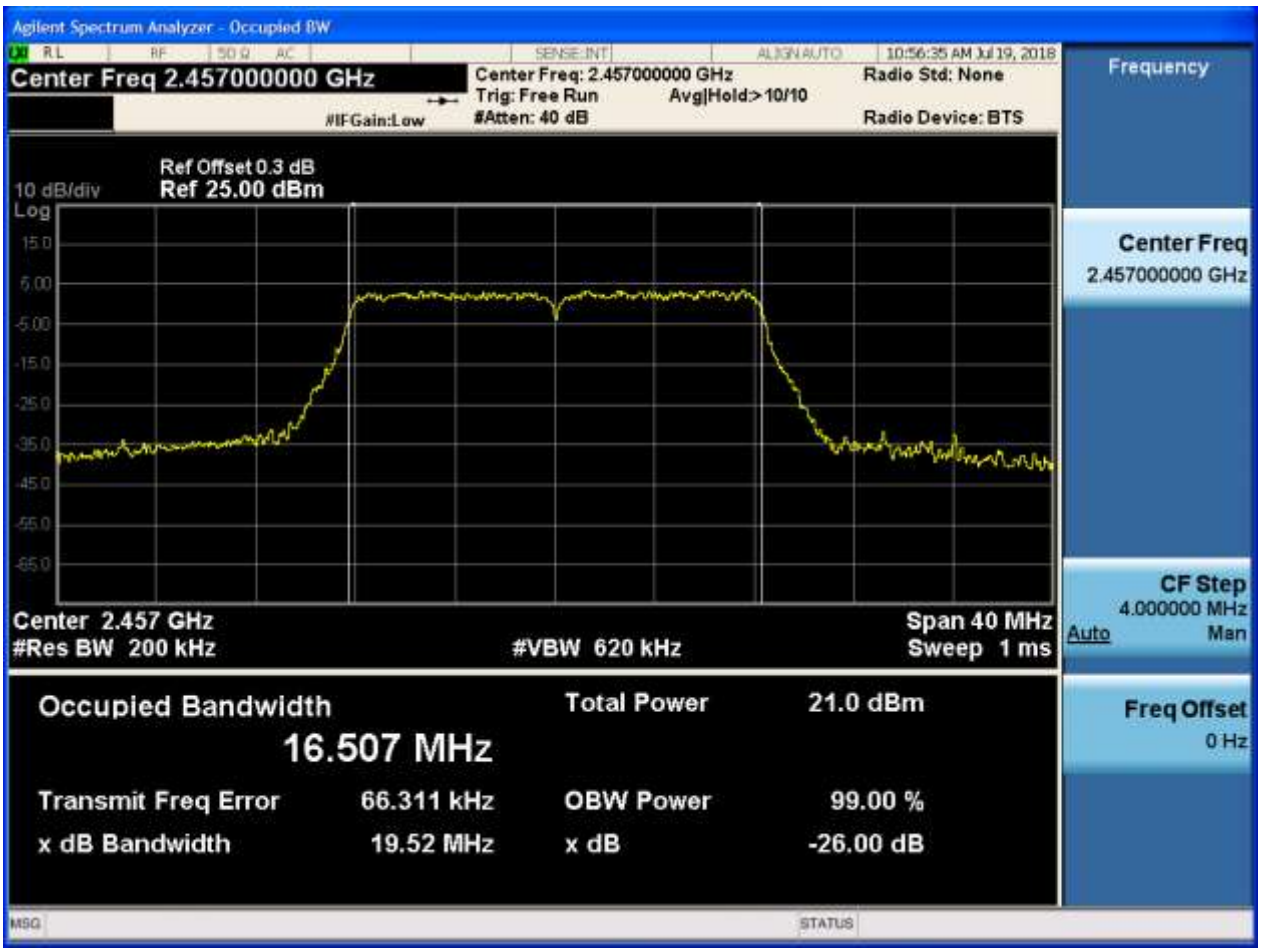
2.8 11G_H_2457@Ant 1



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2.9 11G_H_2462@Ant 1

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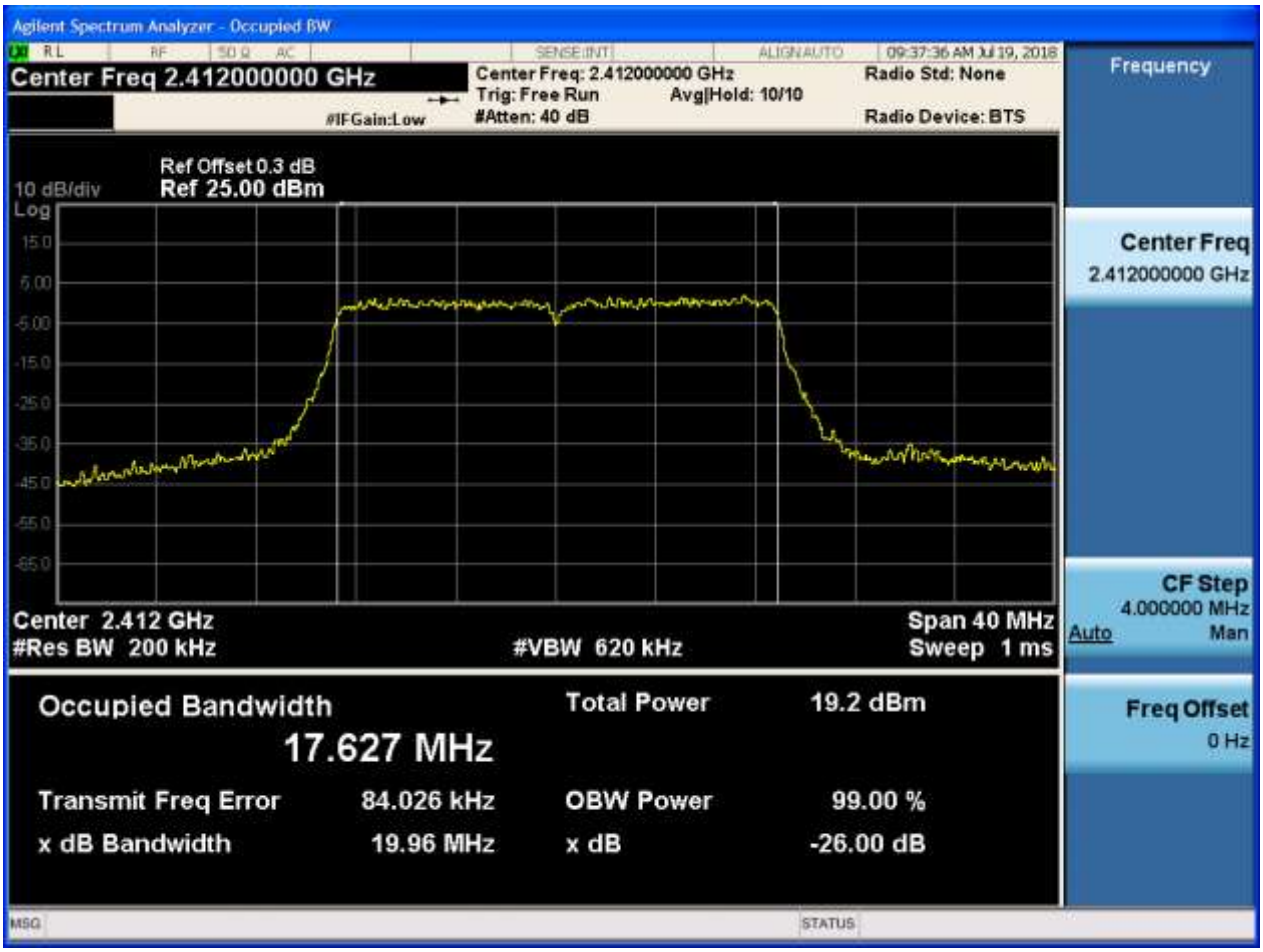
2.10 11N20_L_2412@Ant 1



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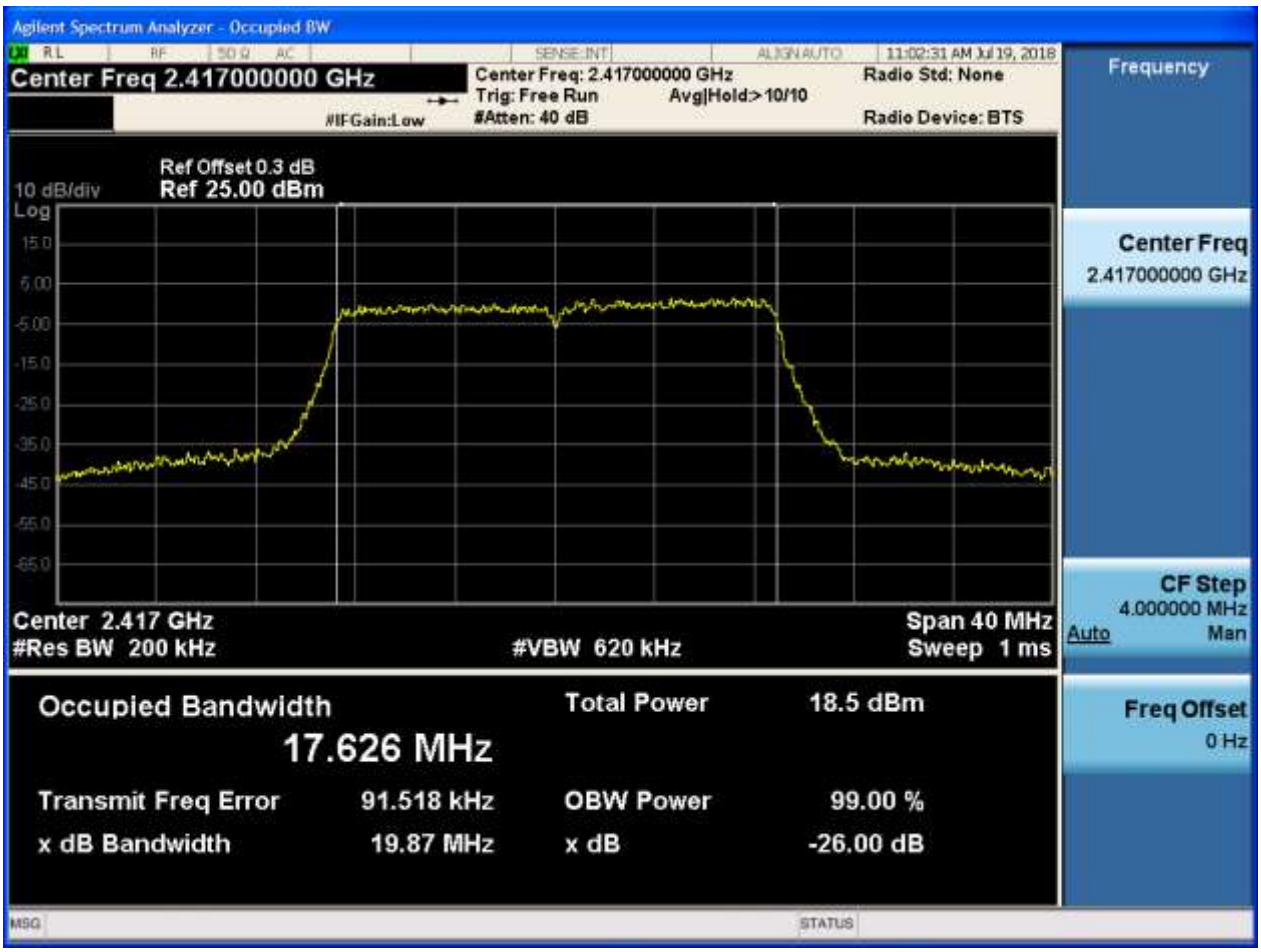

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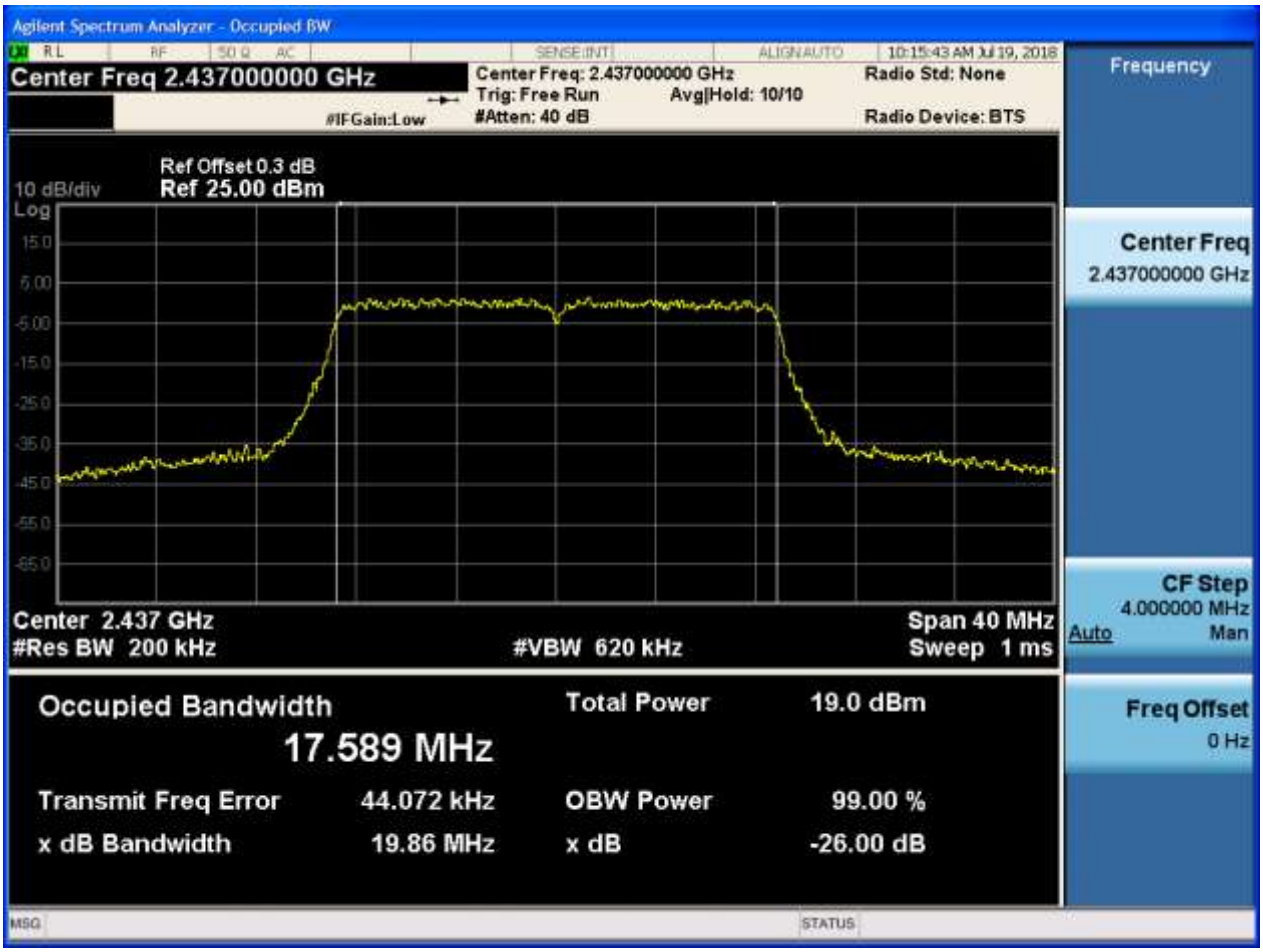
2.12 11N20_M_2437@Ant 1



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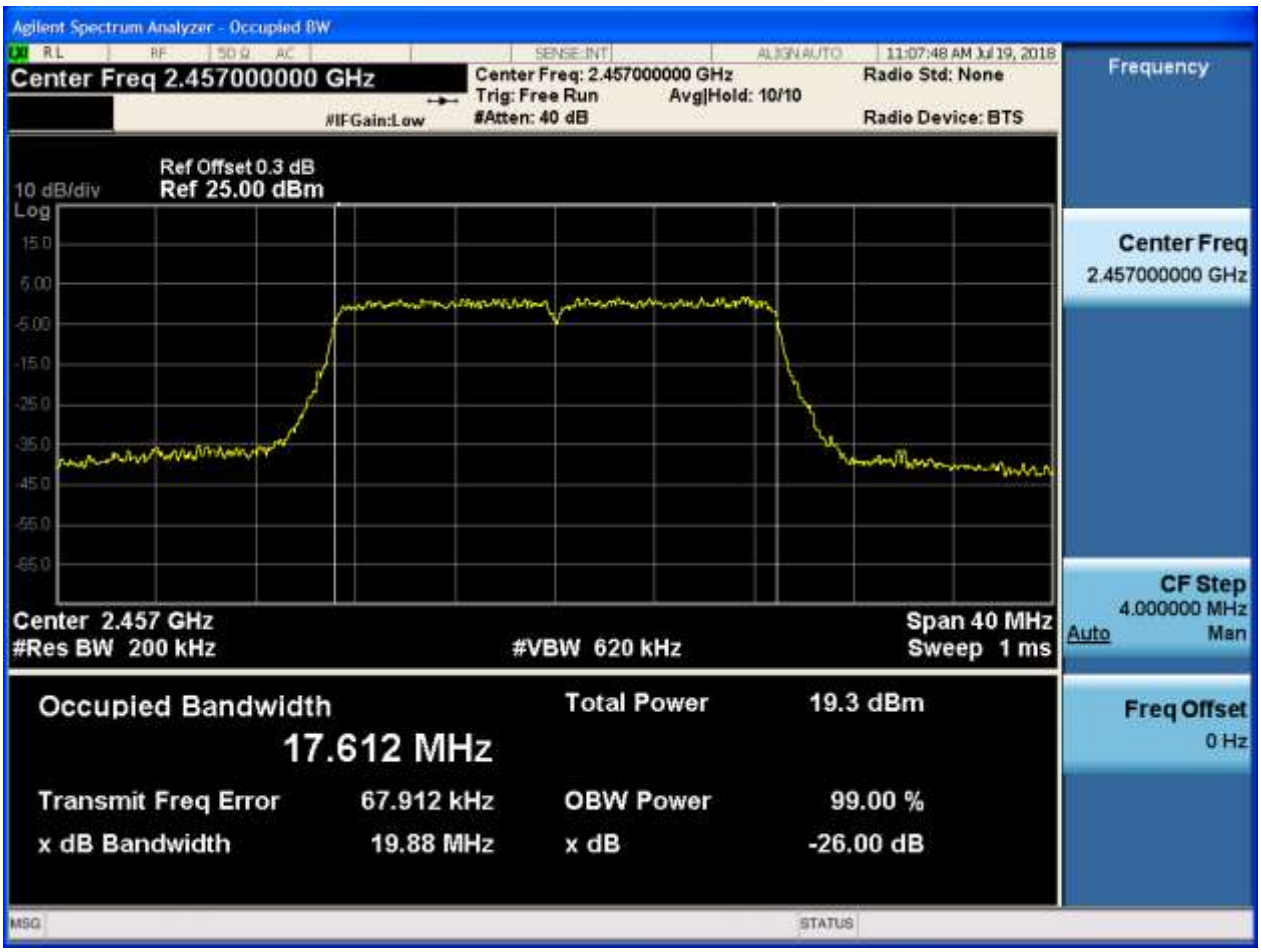
2.13 11N20_H_2457@Ant 1



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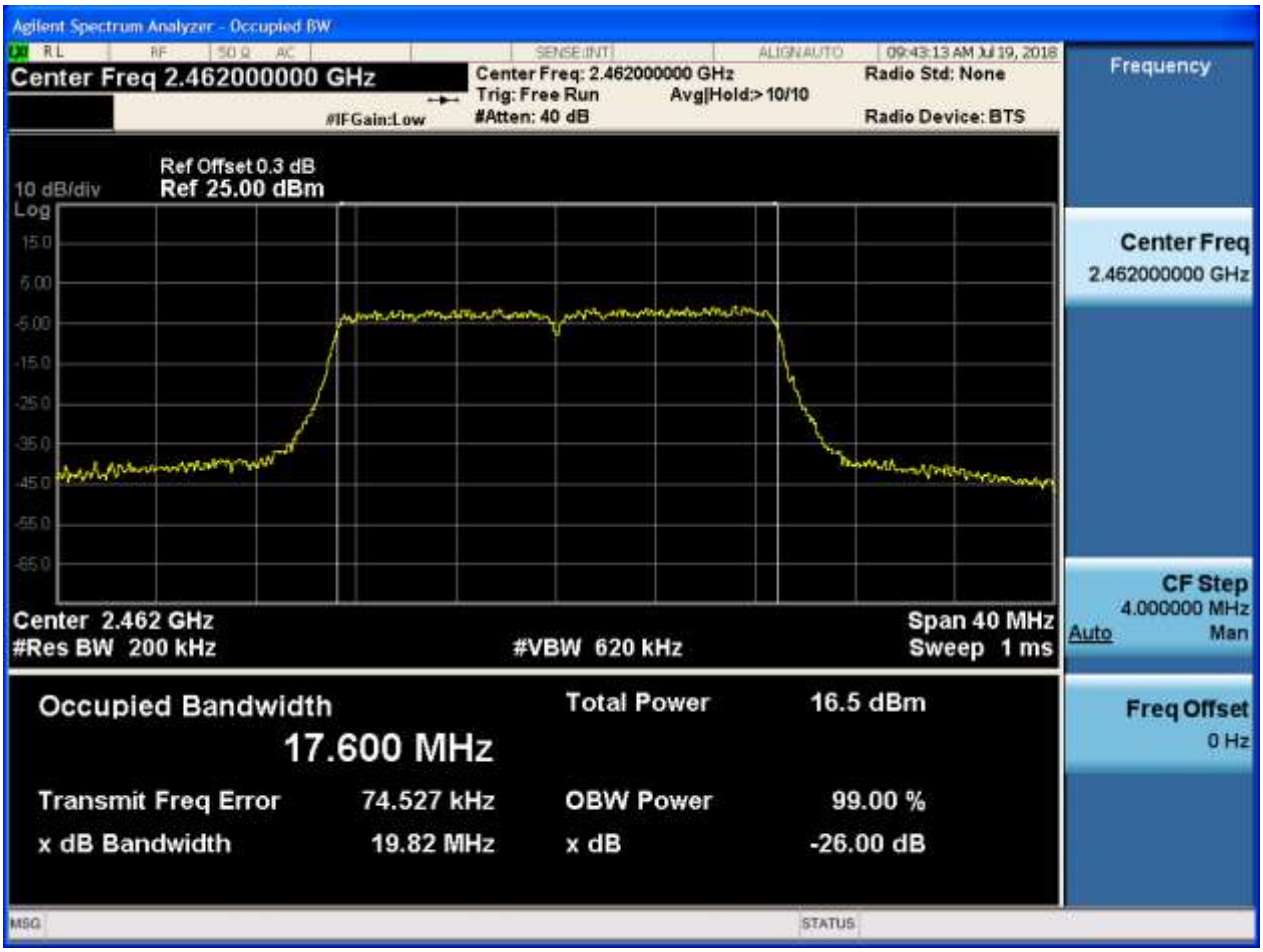
2.14 11N20_H_2462@Ant 1



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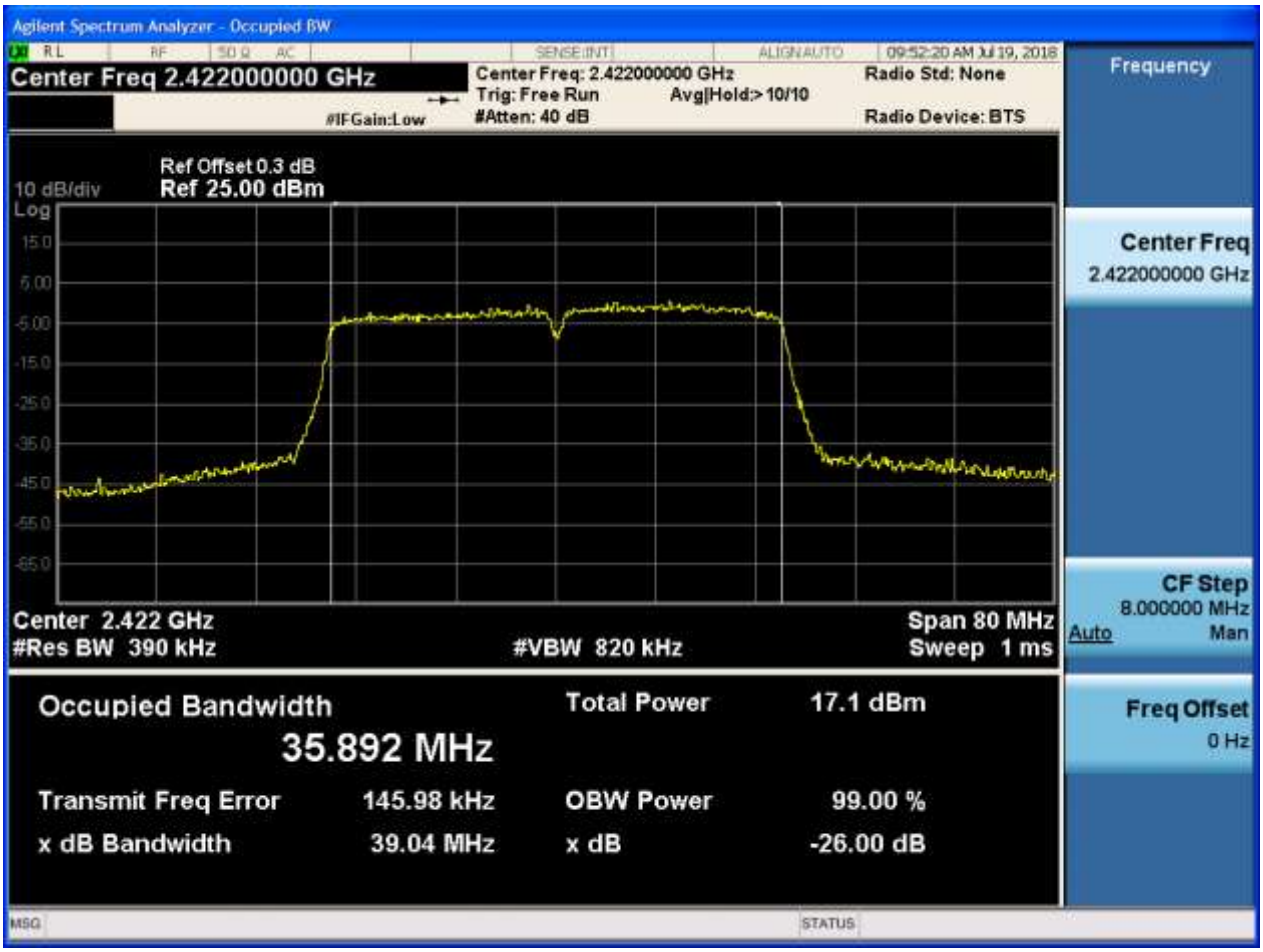
2.15 11N40_L_2422@Ant 1



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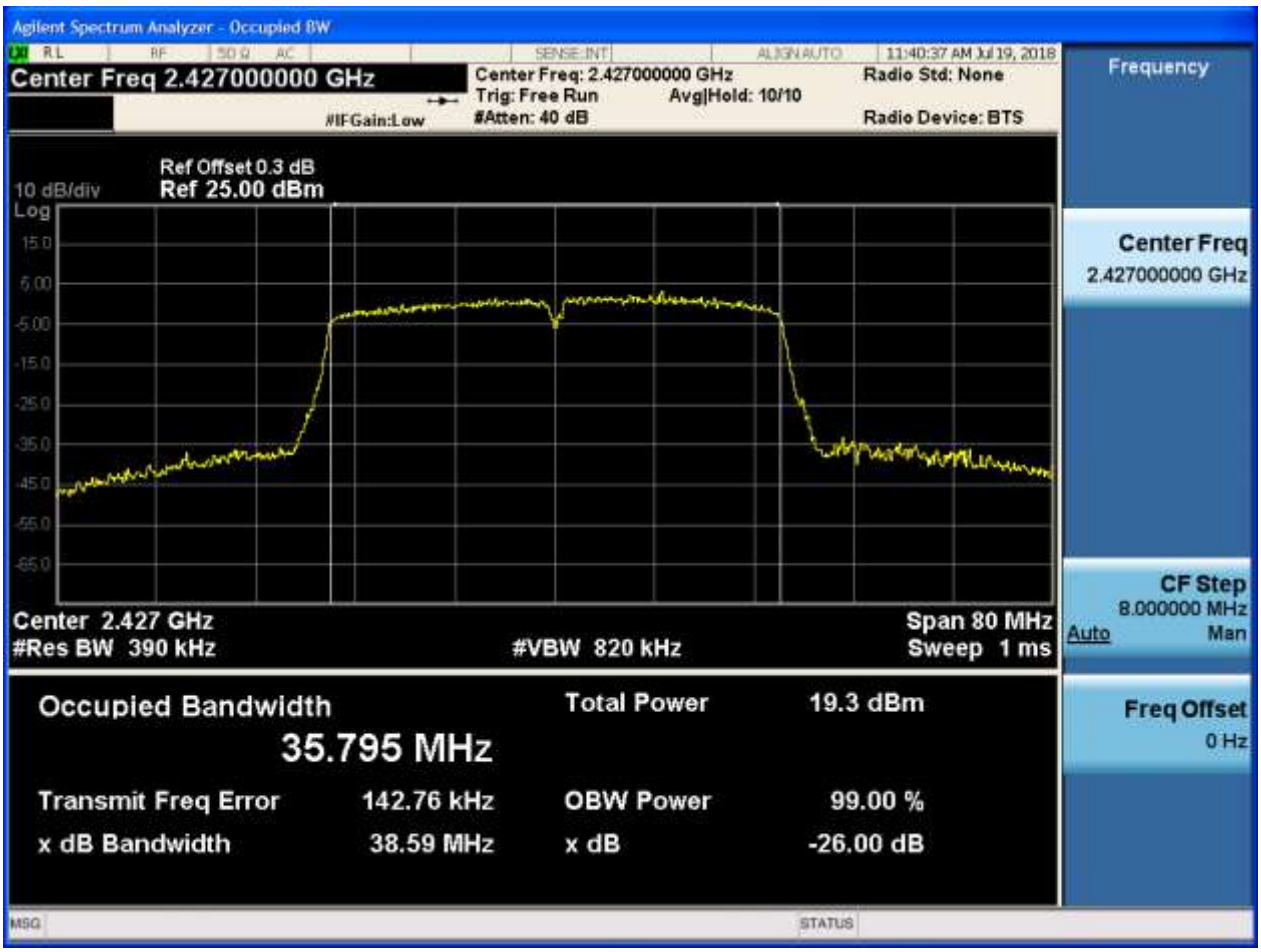
2.16 11N40_L_2427@Ant 1



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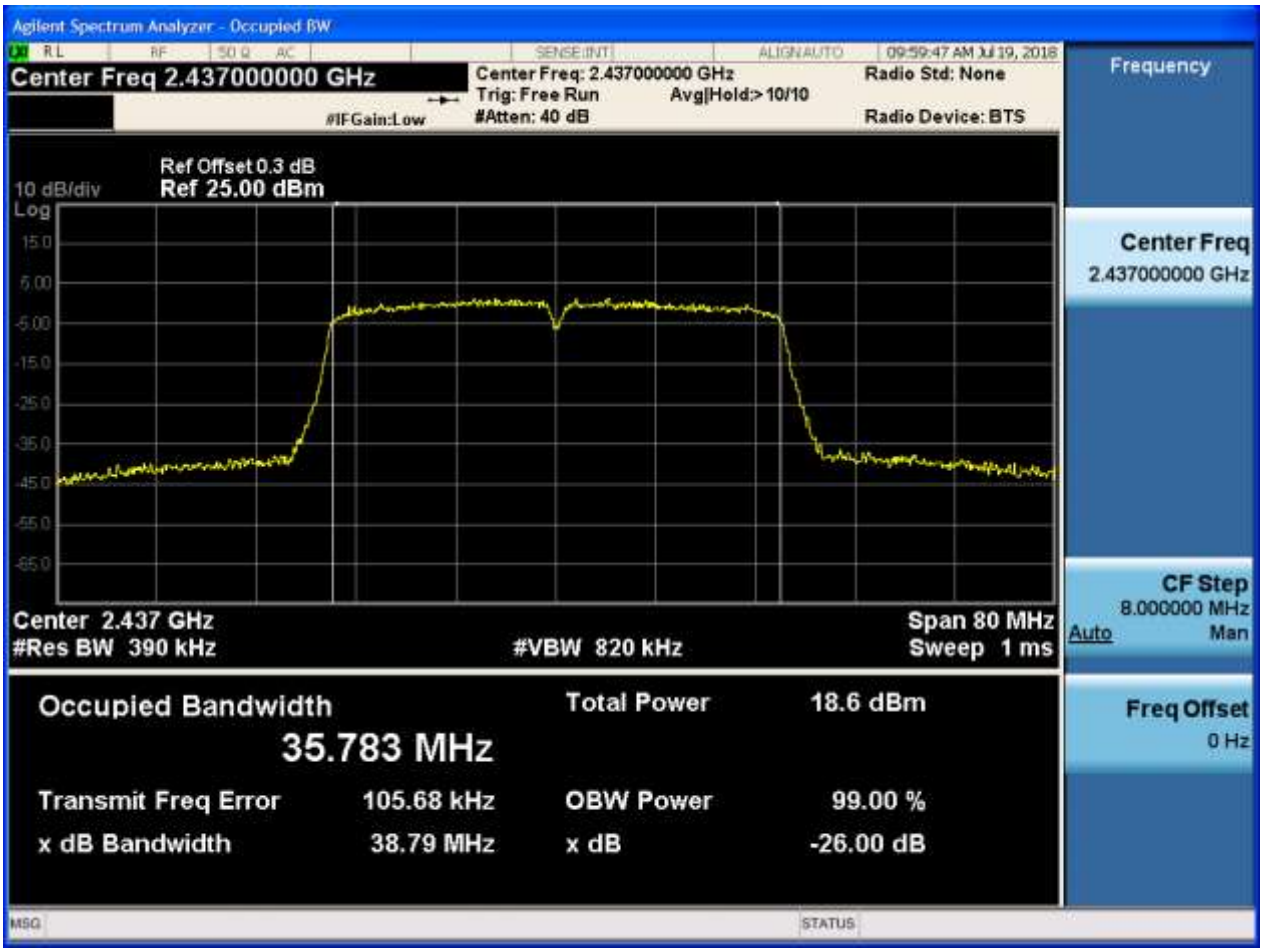
2.17 11N40_M_2437@Ant 1



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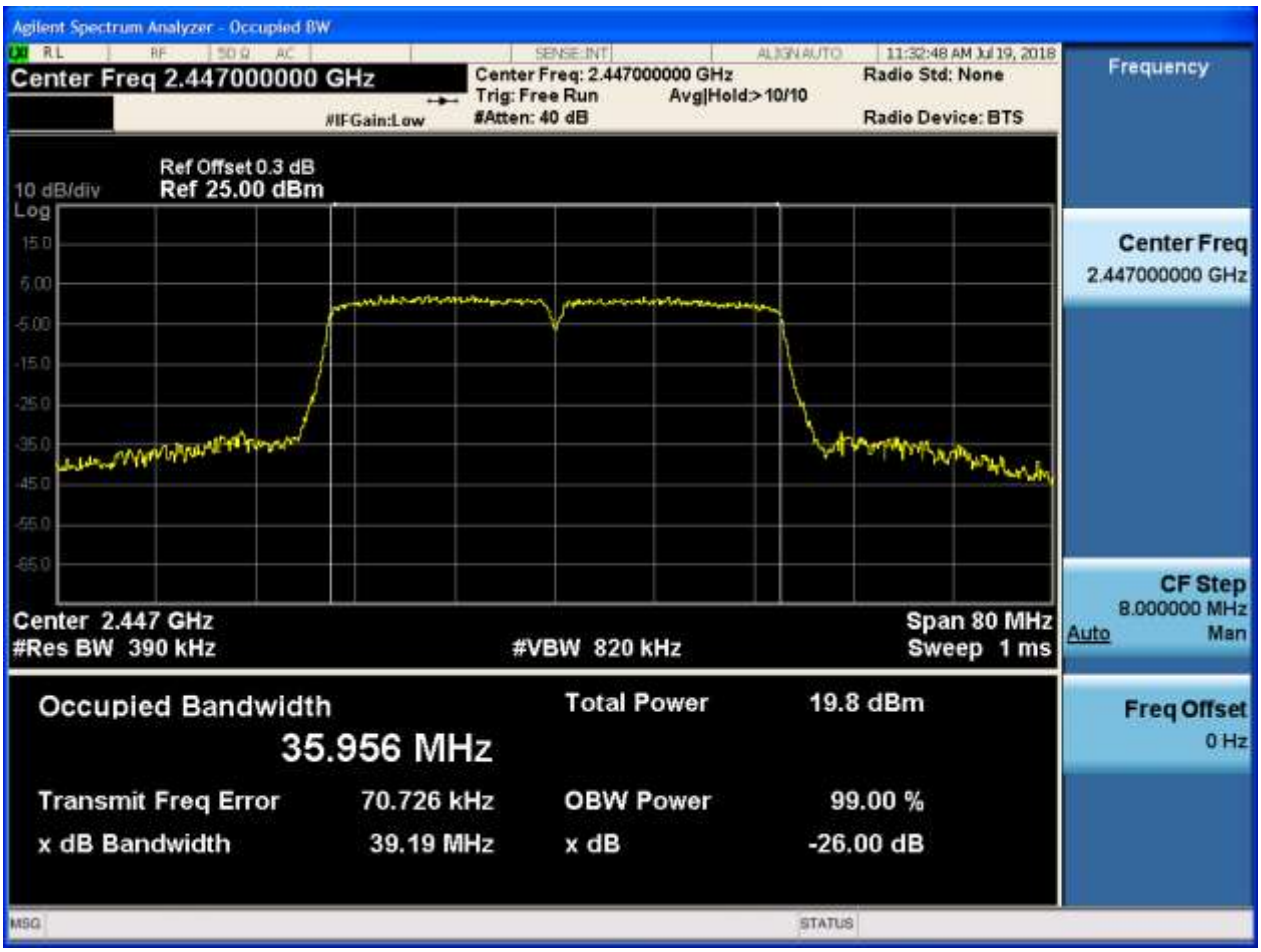
2.19 11N40_M_2447@Ant 1



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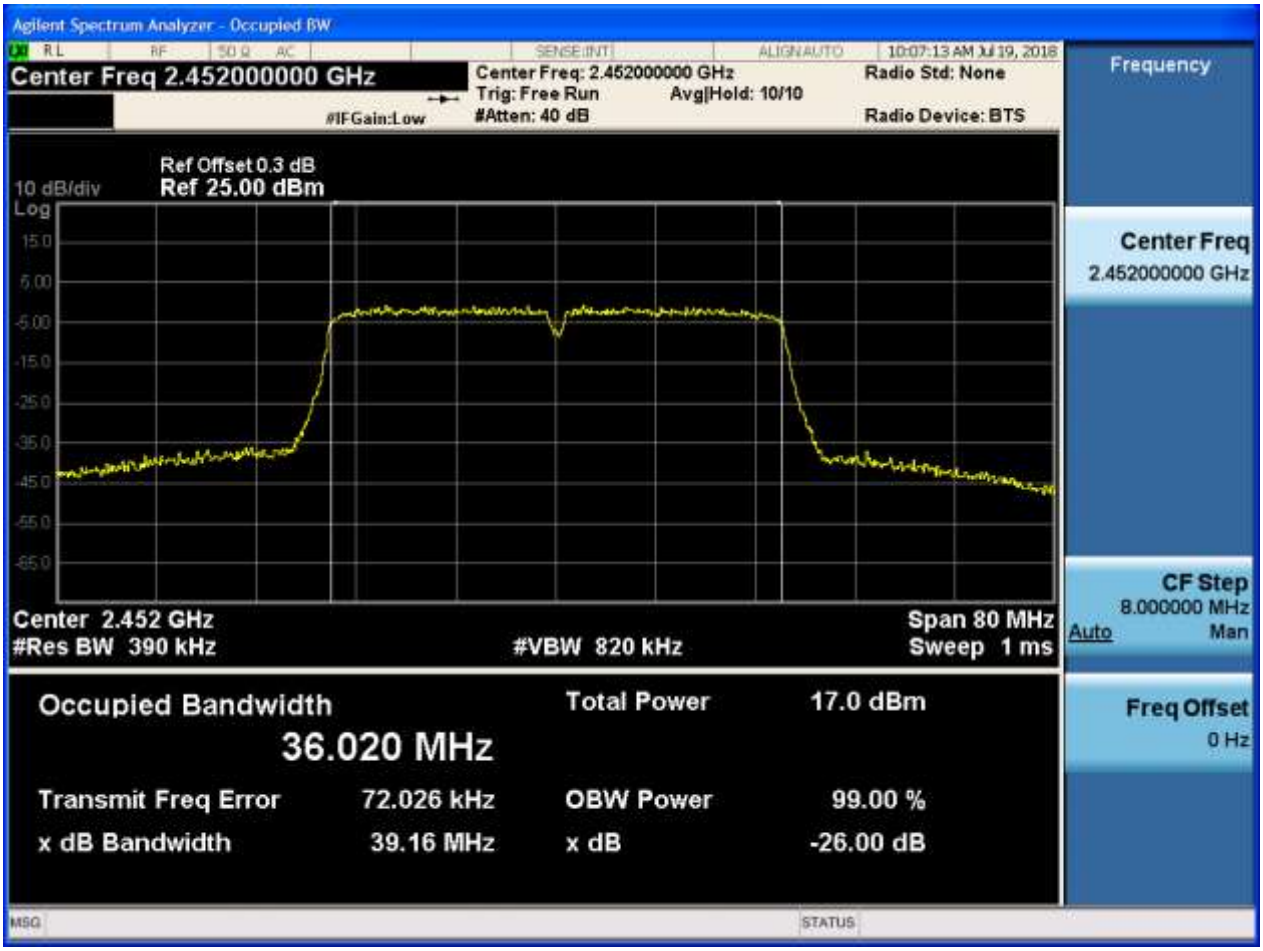

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Appendix C: Duty Cycle

Part I - Test Results

Test Mode	TX Freq. [MHz]	Ant	Duty cycle [%]
11B	CH1,CH6,CH10,CH11	Ant 1	99.5
11G	CH1,CH2,CH6,CH10,CH11	Ant 1	97.6
11N20	CH1,CH2,CH6,CH10,CH11	Ant 1	98.2
11N40	CH3,CH4,CH6,CH8,CH9	Ant 1	96.5

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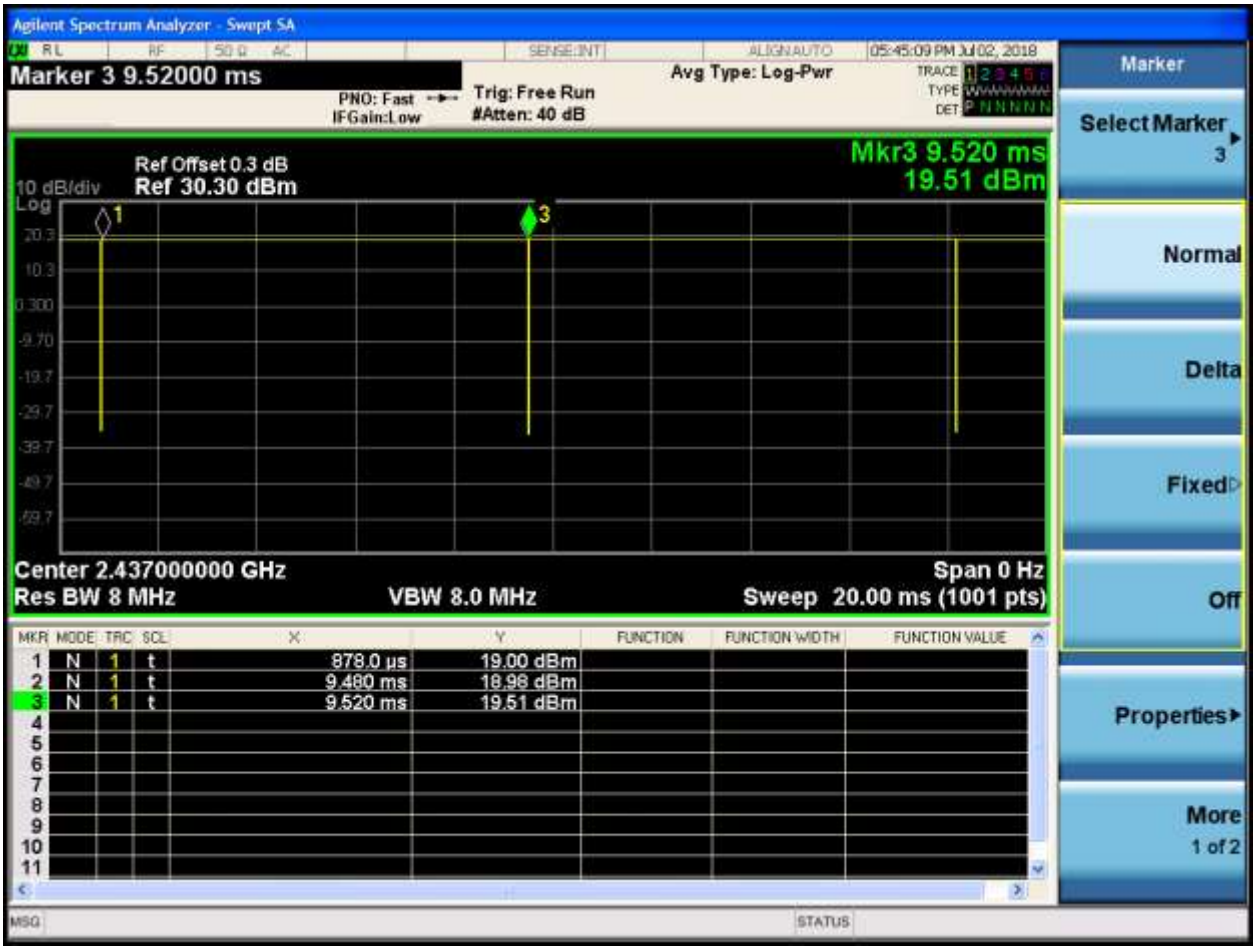
Part II - Test Plots

11B_ANT1



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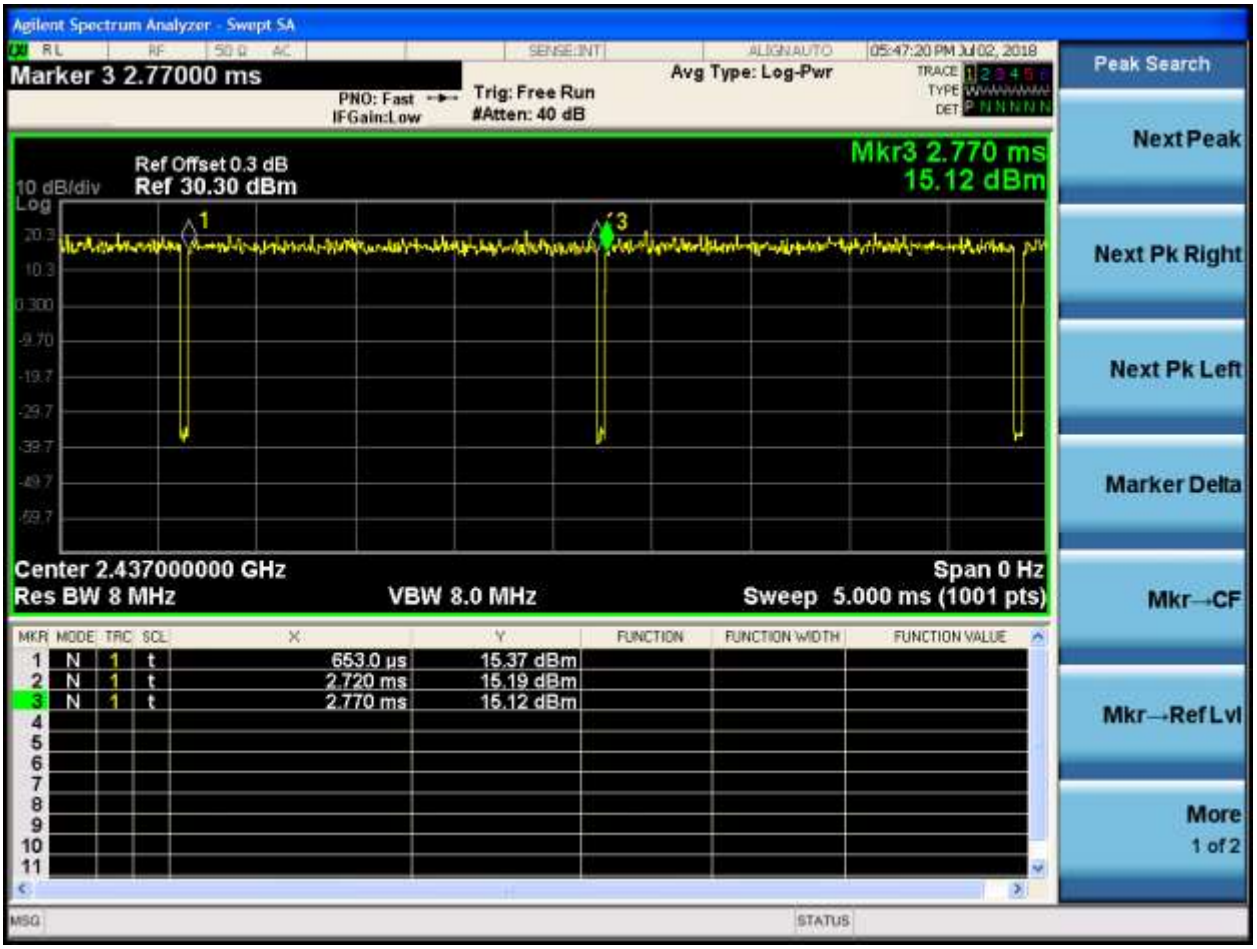
11G_ANT1



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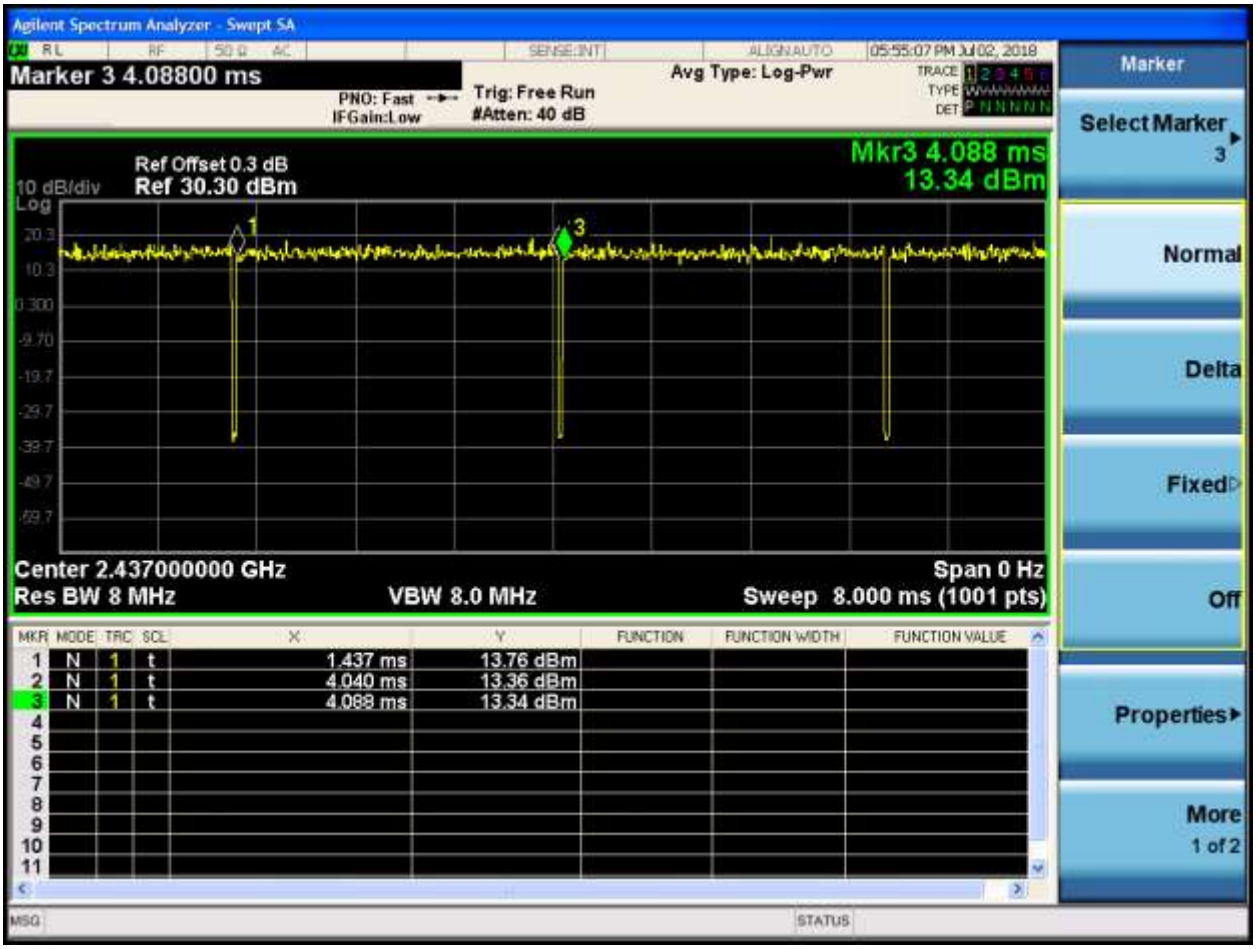
11N20_ANT1



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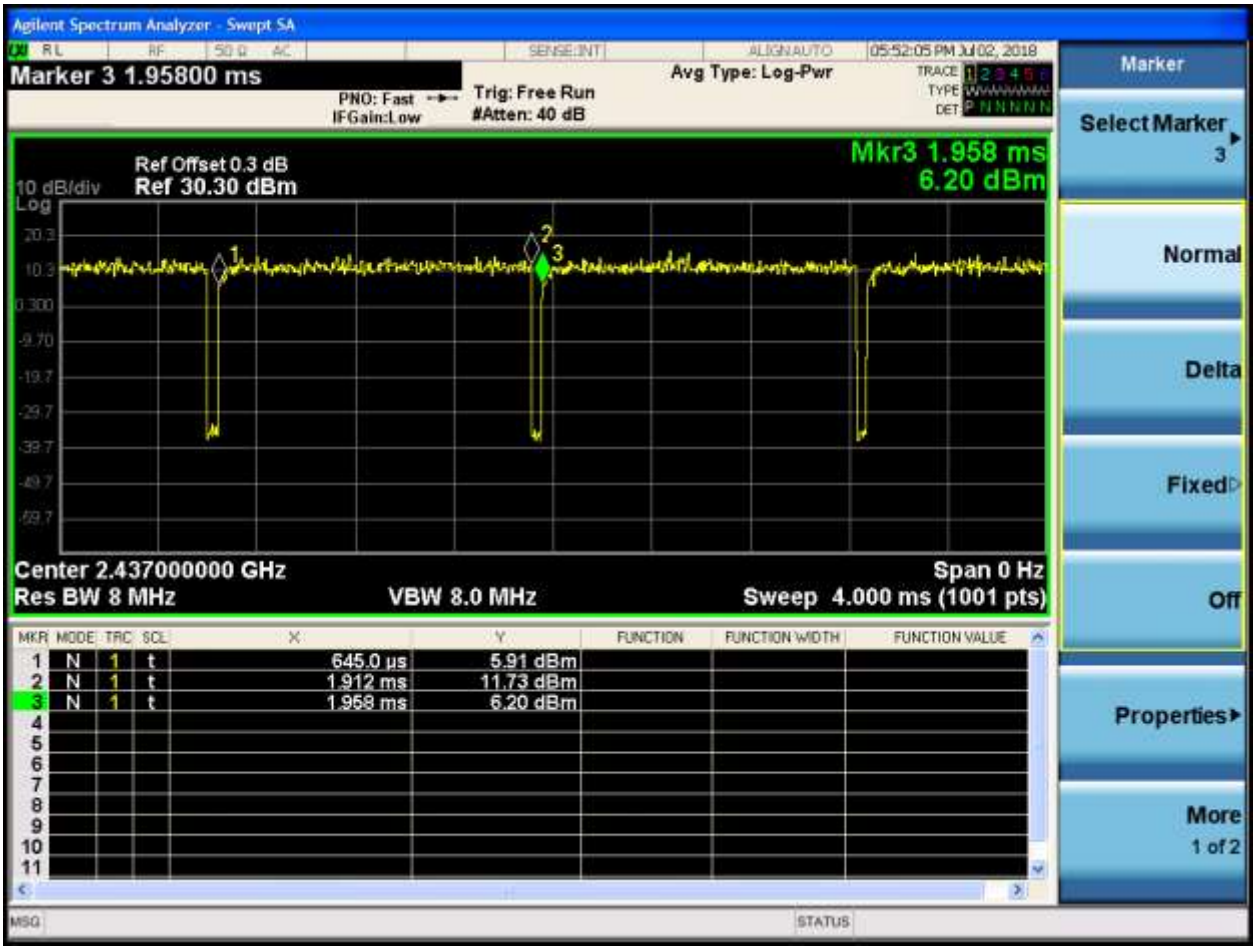
11N40_ANT1



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Appendix D: Maximum Conducted Average Output Power

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle	Power[dBm]	Verdict
11B	L	2412	Ant 1	99.5	15.26	pass
11B	M	2437	Ant 1	99.5	15.76	pass
11B	H	2457	Ant 1	99.5	15.25	pass
11B	H	2462	Ant 1	99.5	12.63	pass
11G	L	2412	Ant 1	97.6	13.03	pass
11G	L	2417	Ant 1	97.6	13.26	pass
11G	M	2437	Ant 1	97.6	13.68	pass
11G	H	2457	Ant 1	97.6	13.95	pass
11G	H	2462	Ant 1	97.6	10.22	pass
11N20	L	2412	Ant 1	98.2	12.07	pass
11N20	L	2417	Ant 1	98.2	11.43	pass
11N20	M	2437	Ant 1	98.2	11.83	pass
11N20	H	2457	Ant 1	98.2	12.11	pass
11N20	H	2462	Ant 1	98.2	9.32	pass

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Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle	Power[dBm]	Verdict
11N40	L	2422	Ant 1	96.5	9.91	pass
11N40	L	2427	Ant 1	96.5	12.17	pass
11N40	M	2437	Ant 1	96.5	11.39	pass
11N40	H	2447	Ant 1	96.5	12.62	pass
11N40	H	2452	Ant 1	96.5	9.79	pass

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Part II - Test Plots

2.1 11B_L_2412@Ant 1

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2.2 11B_M_2437@Ant 1

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2.3 11B_H_2457@Ant 1

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2.4 11B_H_2462@Ant 1

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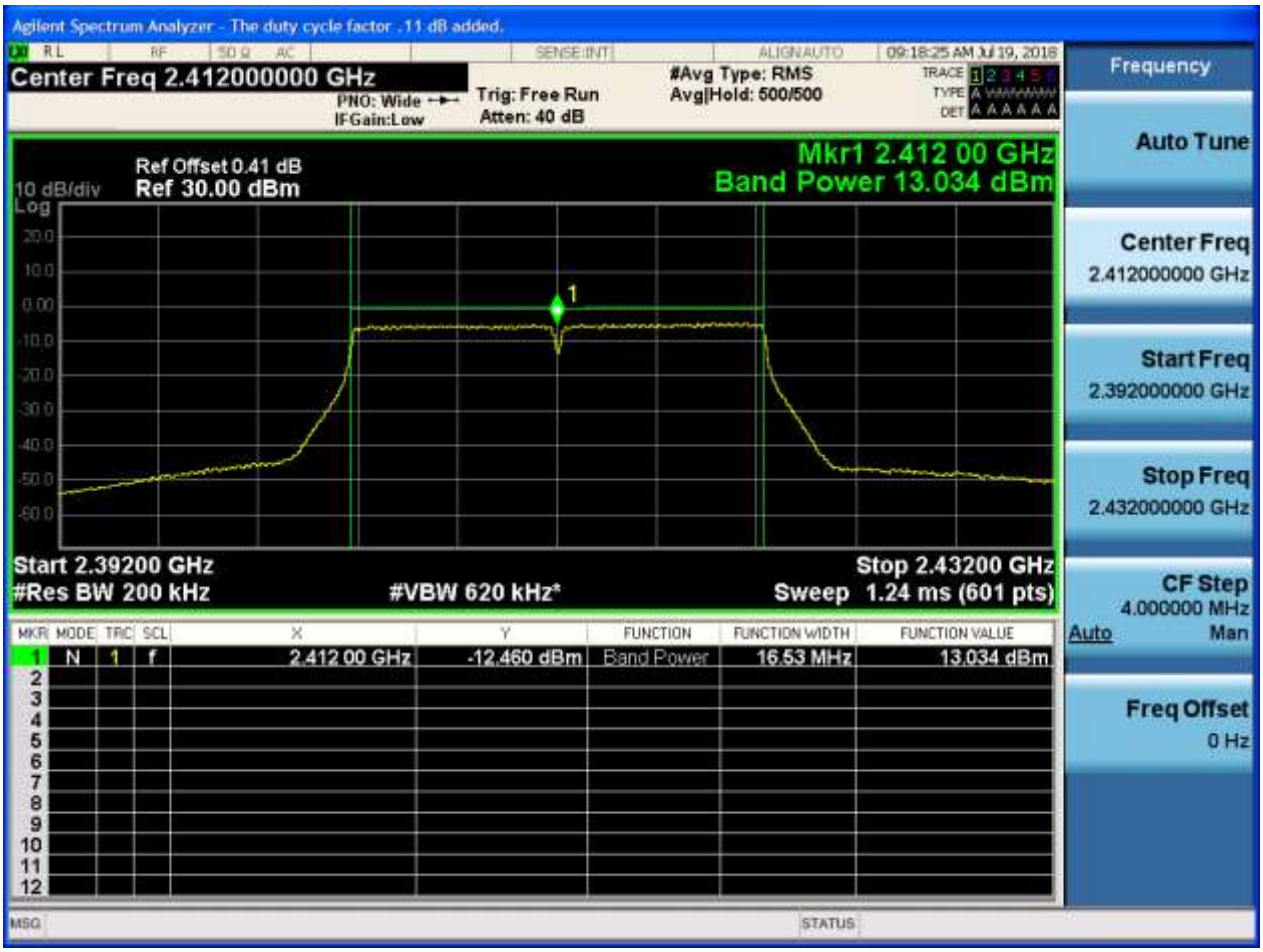
2.5 11G_L_2412@Ant 1



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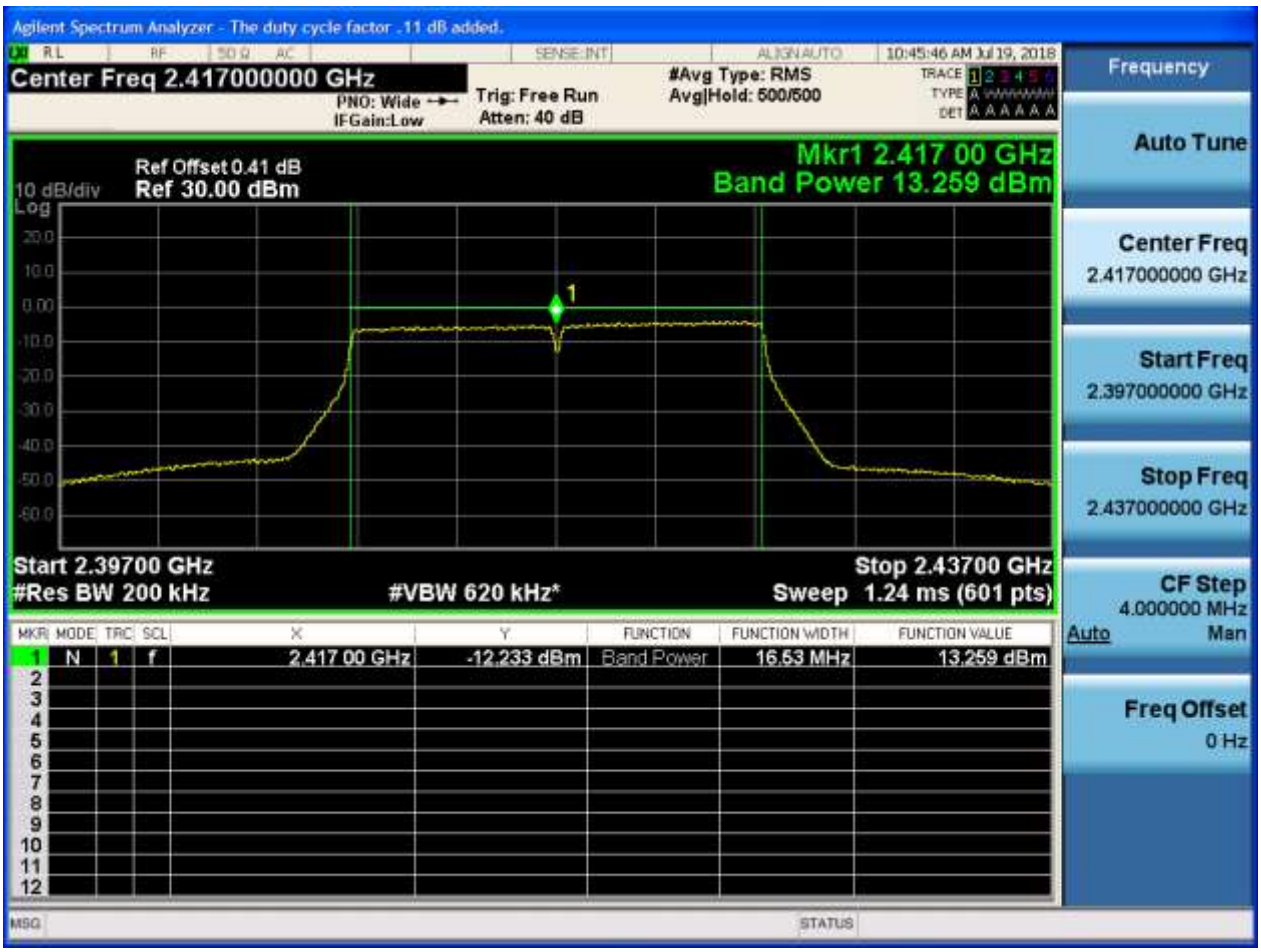
2.6 11G_M_2417@Ant 1



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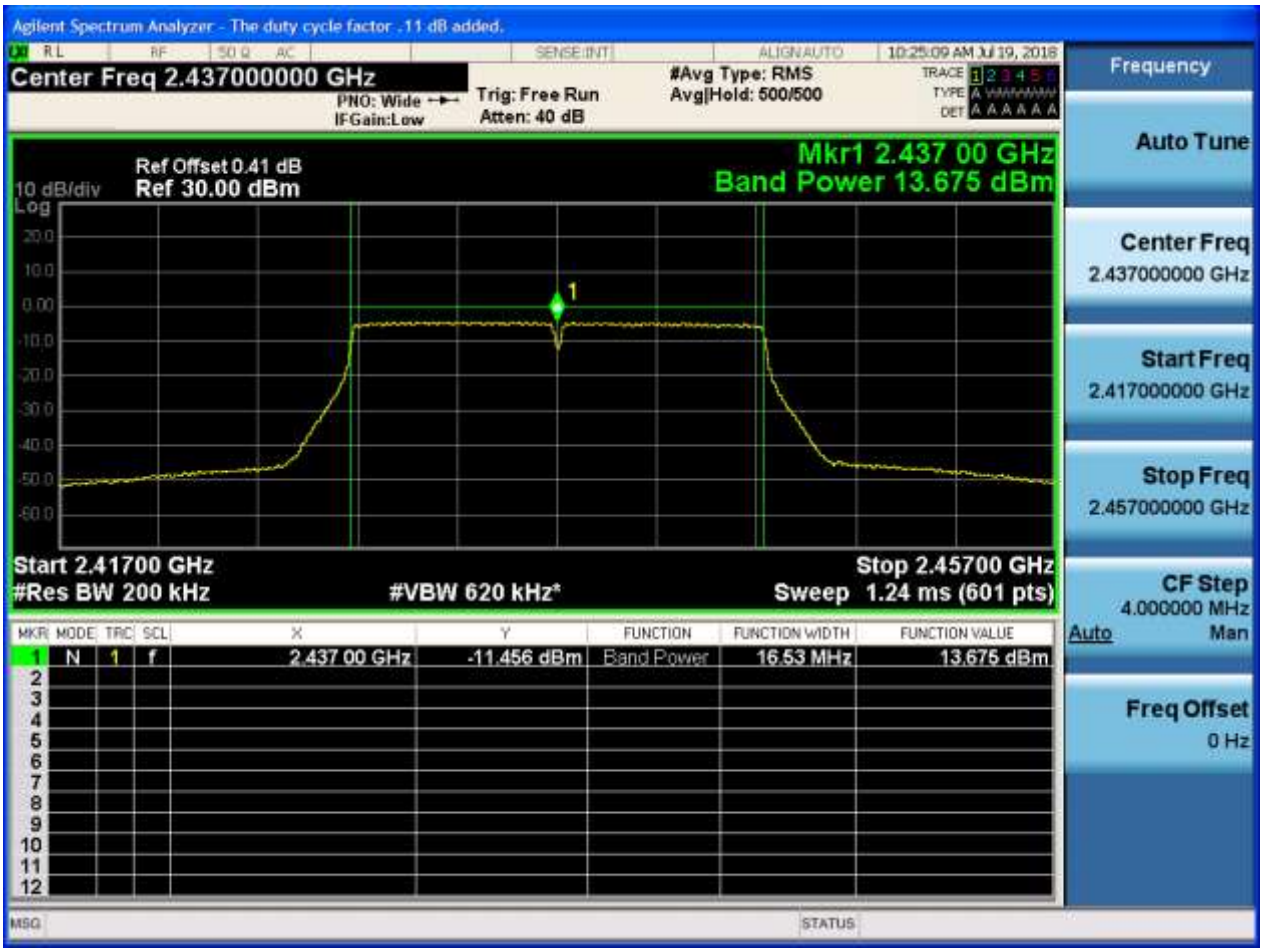

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2.8 11G_M_2457@Ant 1

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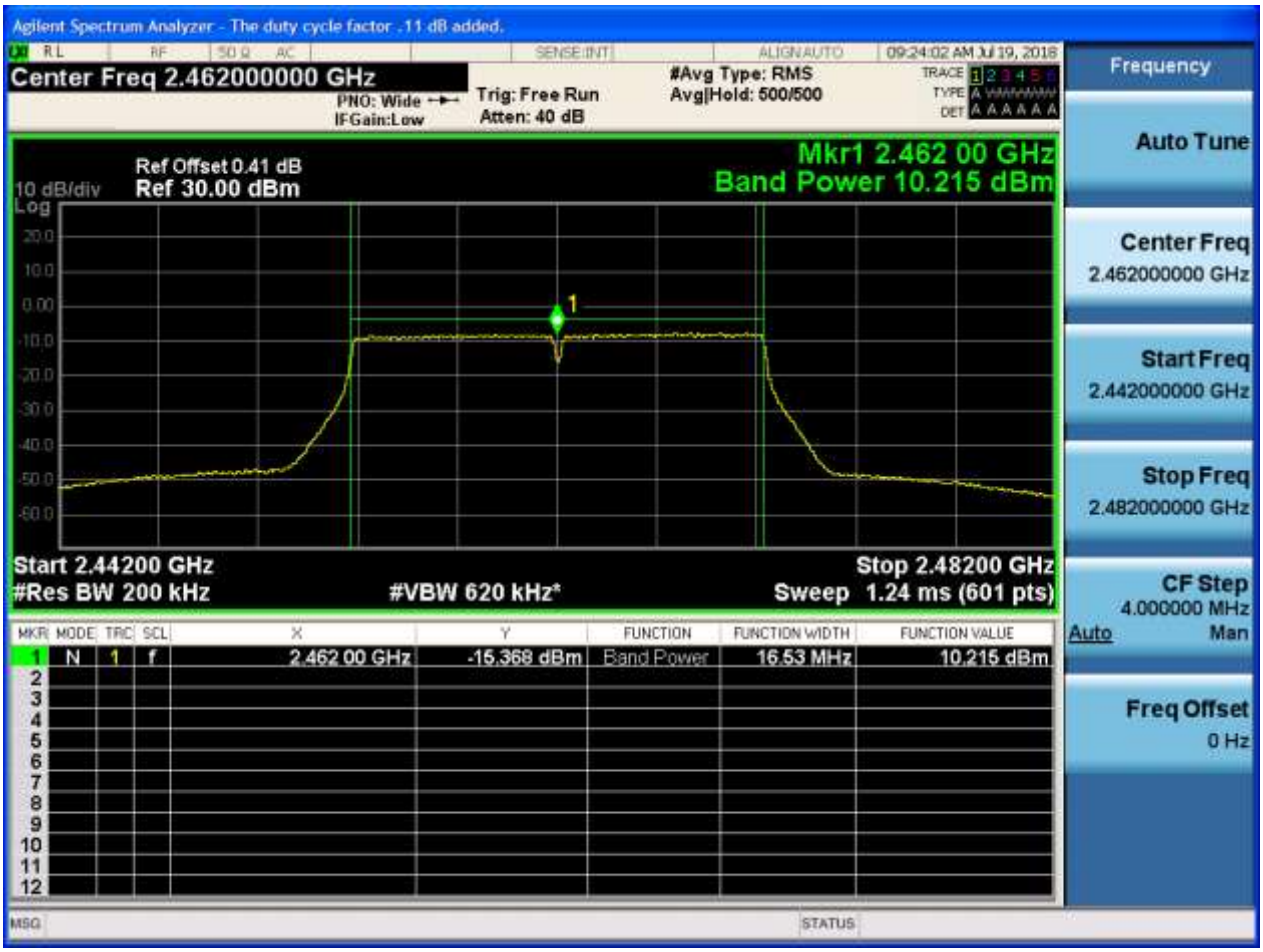
2.9 11G_H_2462@Ant 1



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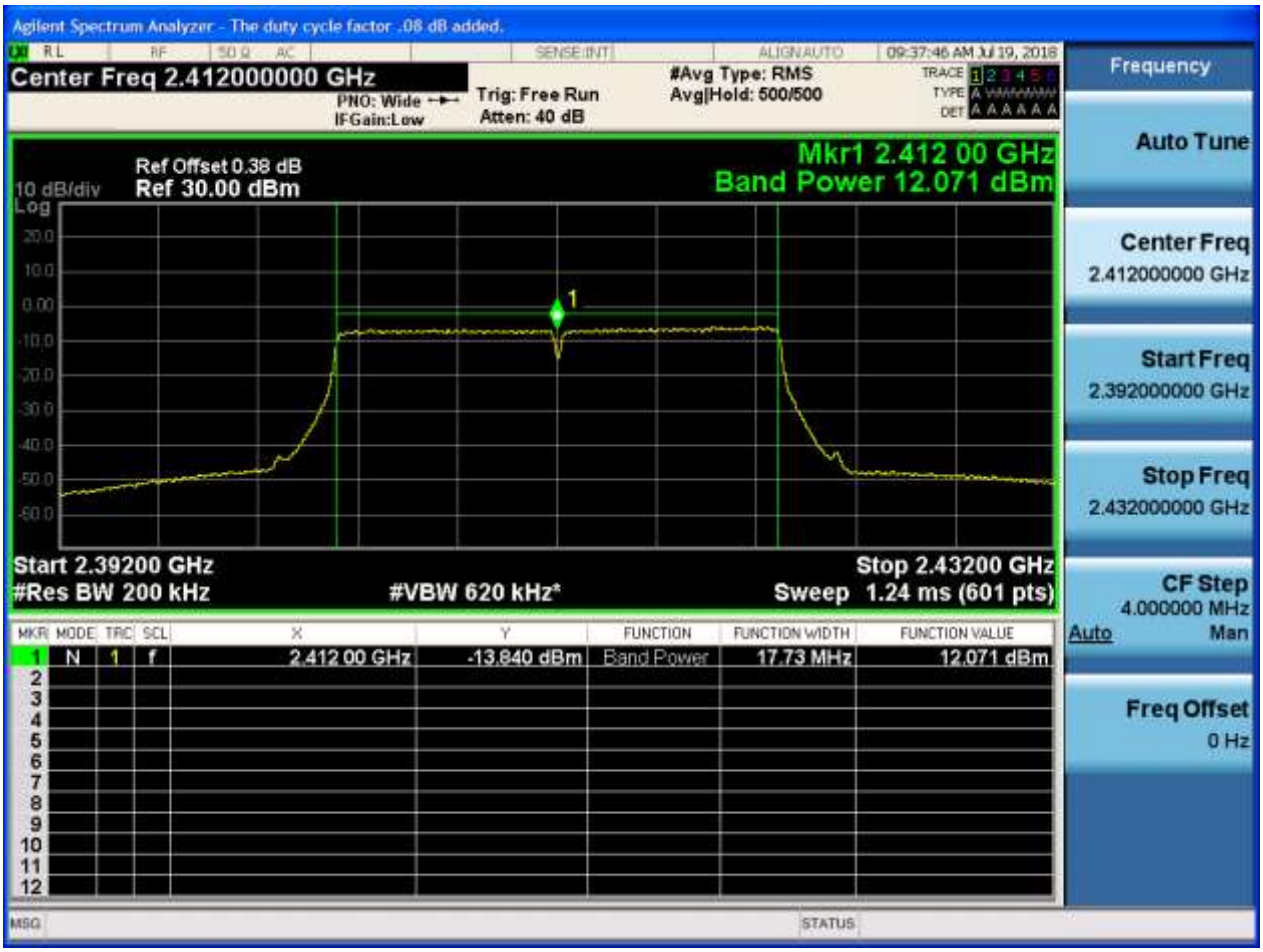
2.10 11N20_L_2412@Ant 1



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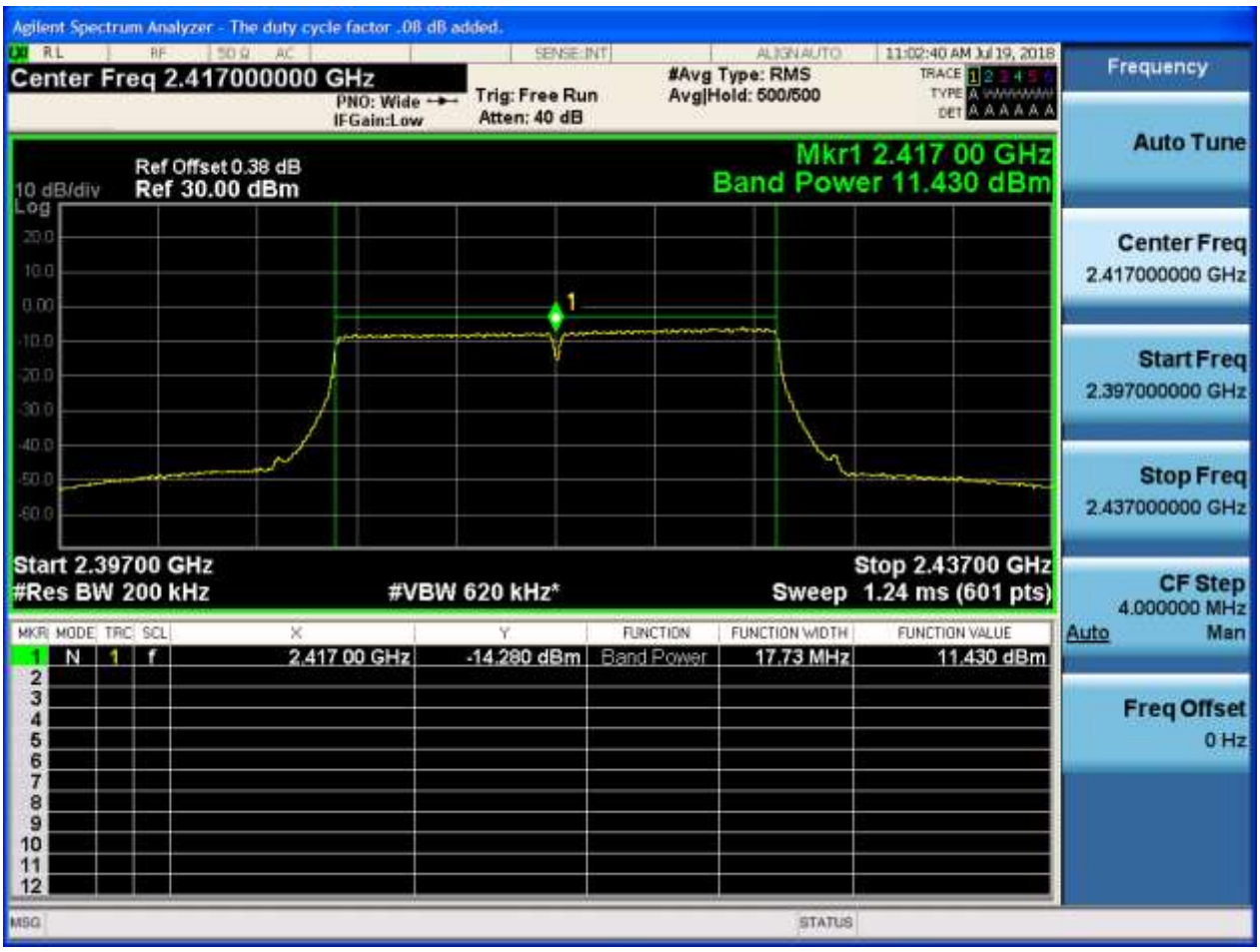
2.1111N20_M_2417@Ant 1



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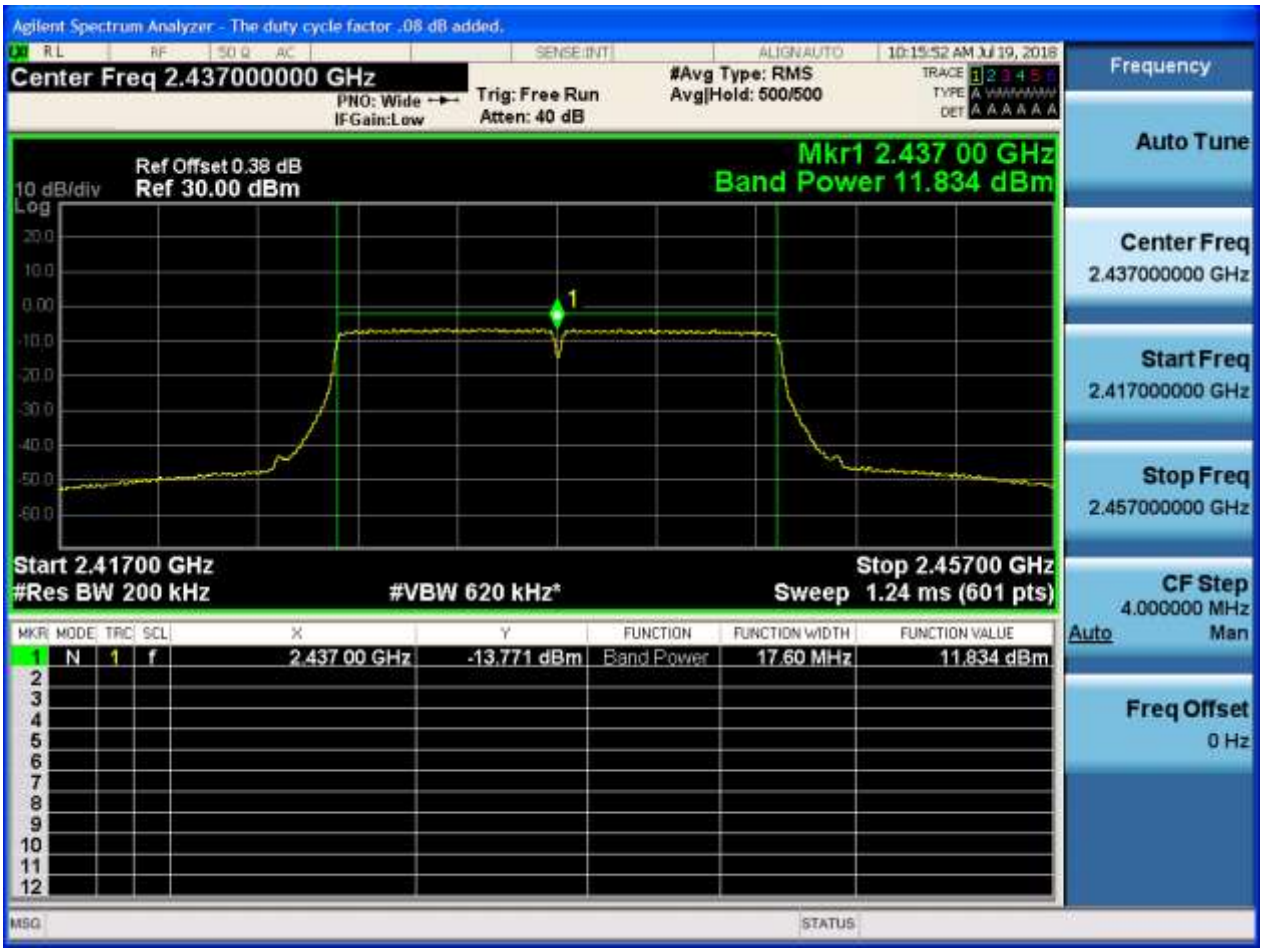

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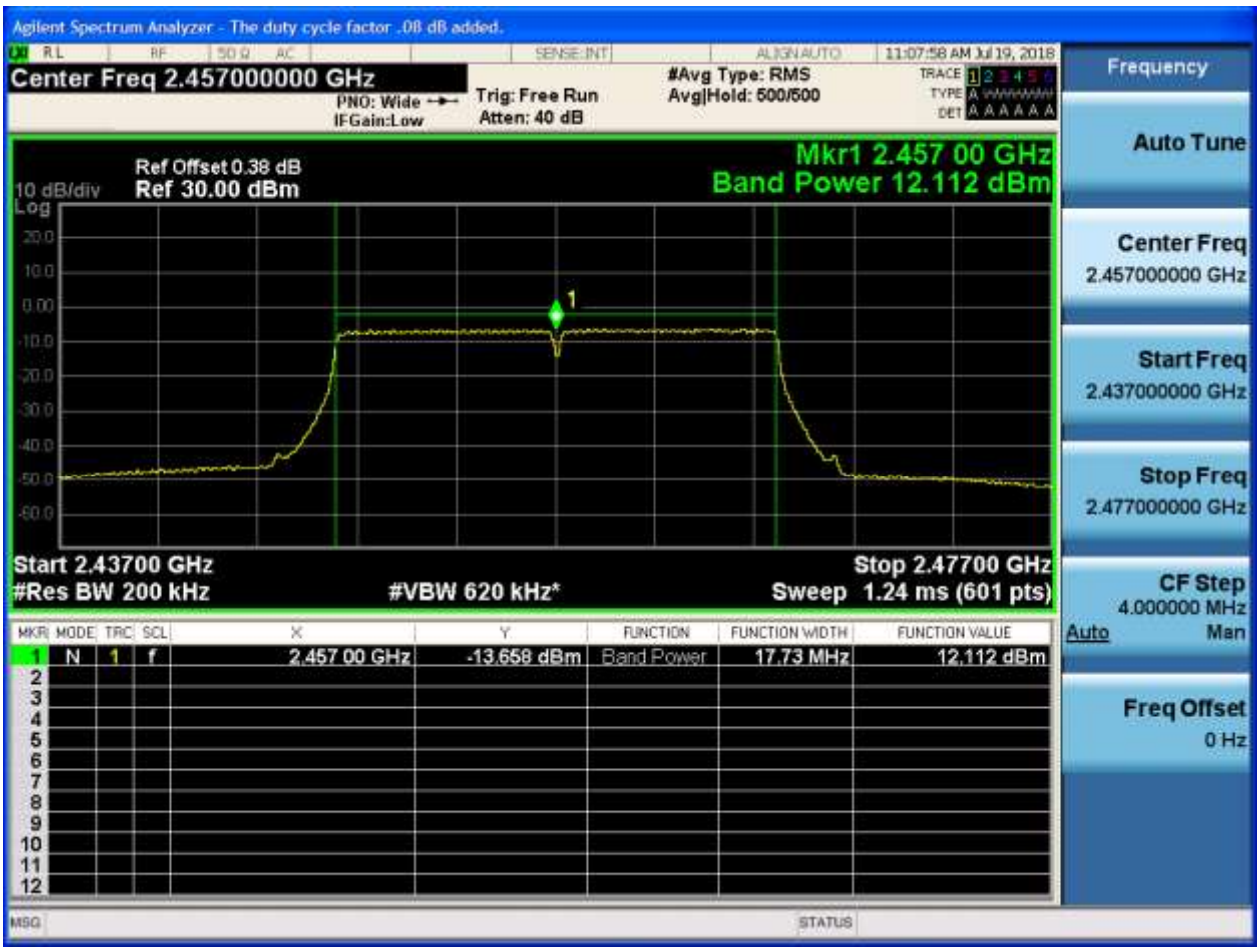
2.13 11N20_H_2457@Ant 1



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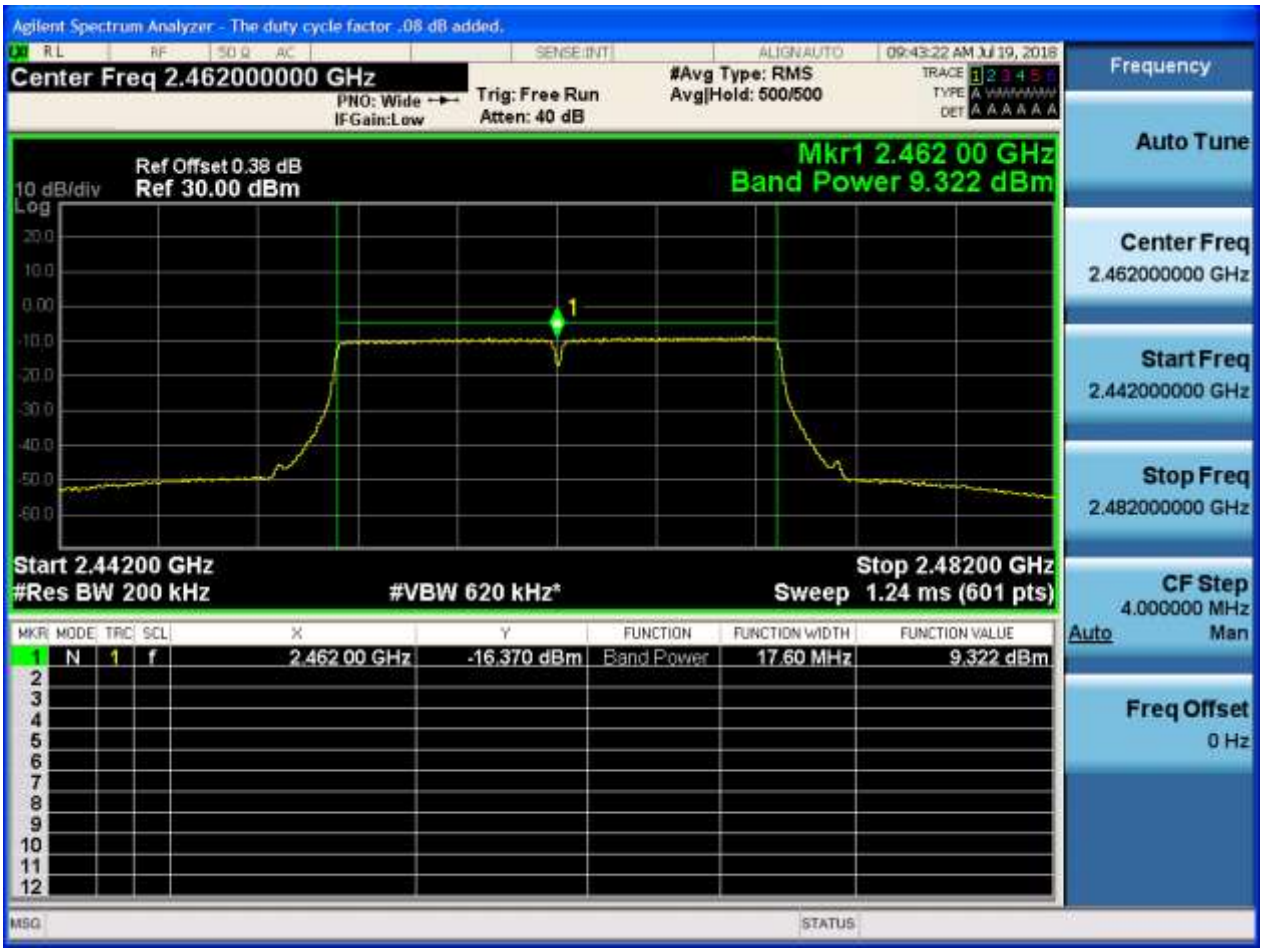
2.14 11N20_H_2462@Ant 1



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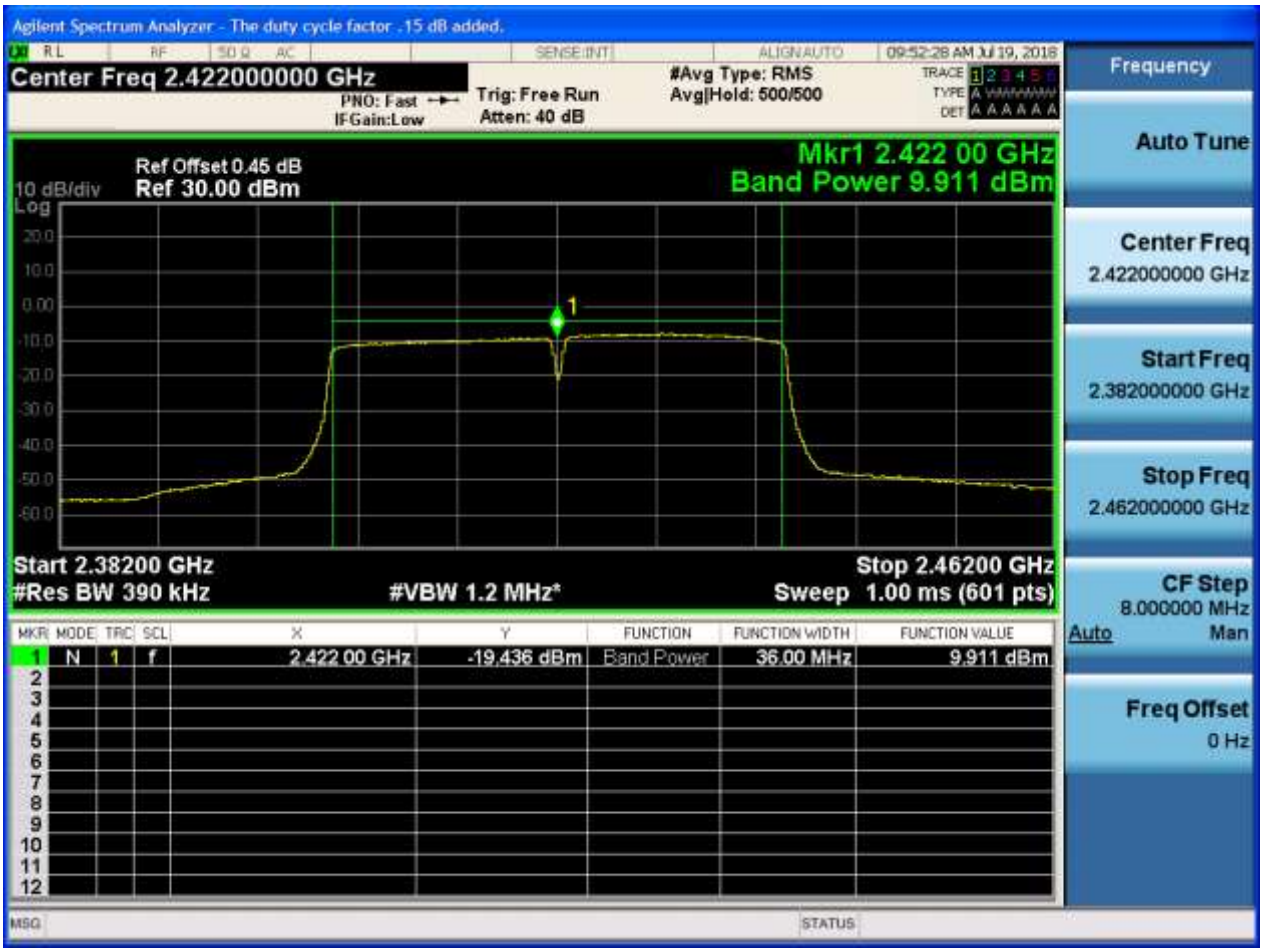
2.15 11N40_L_2422@Ant 1



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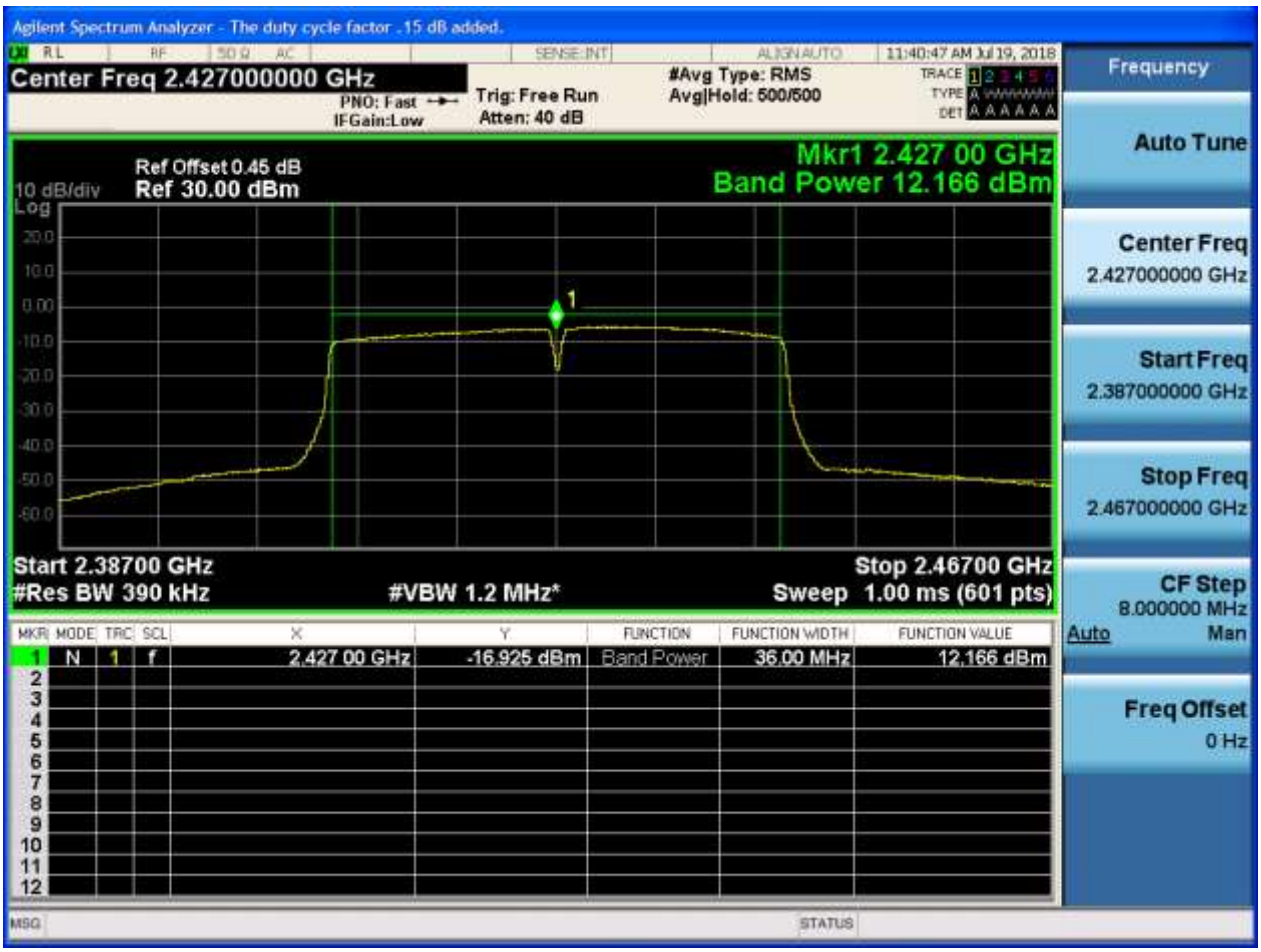
2.1611N40_M_2427@Ant 1



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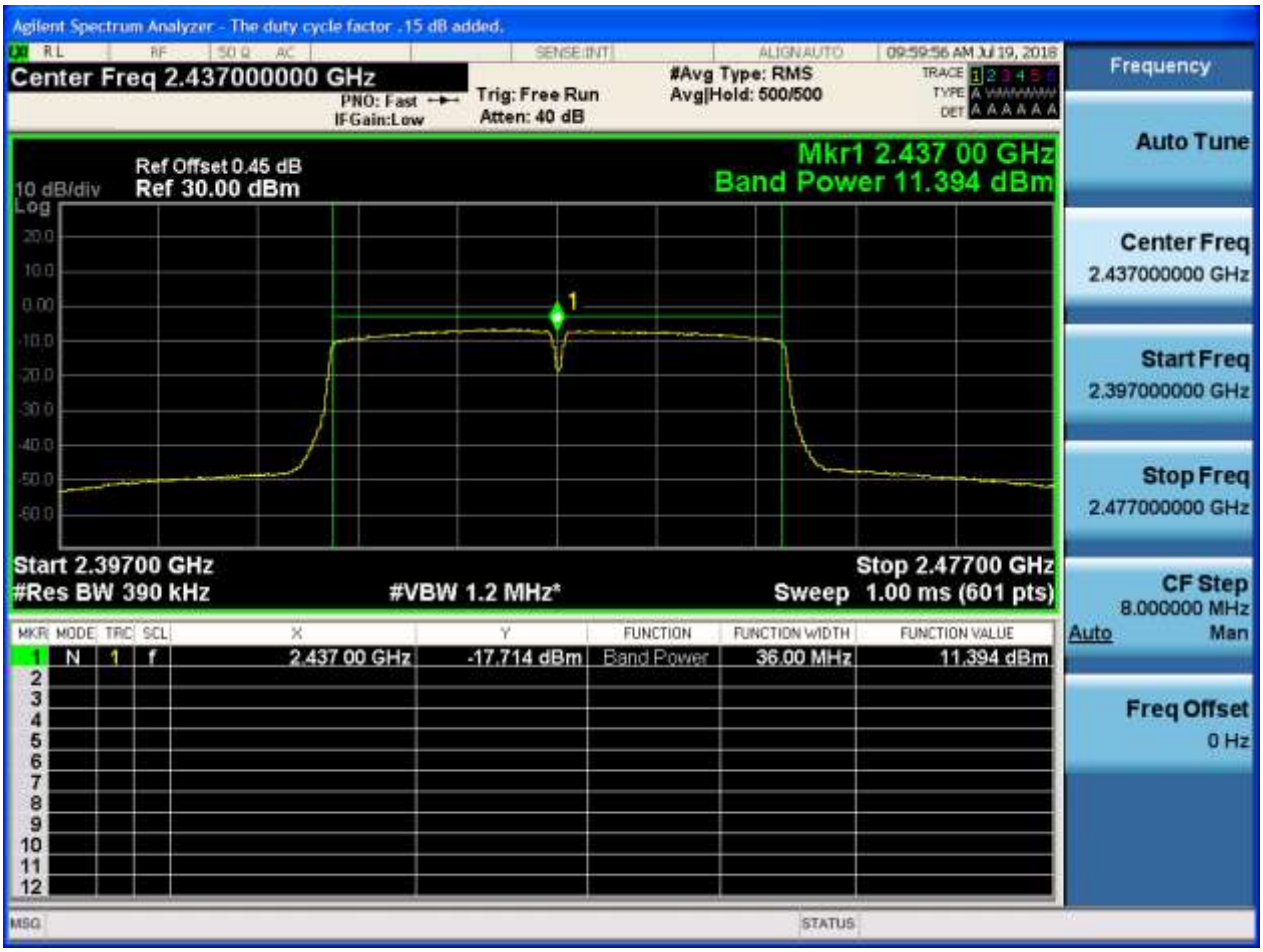
2.17 11N40_M_2437@Ant 1



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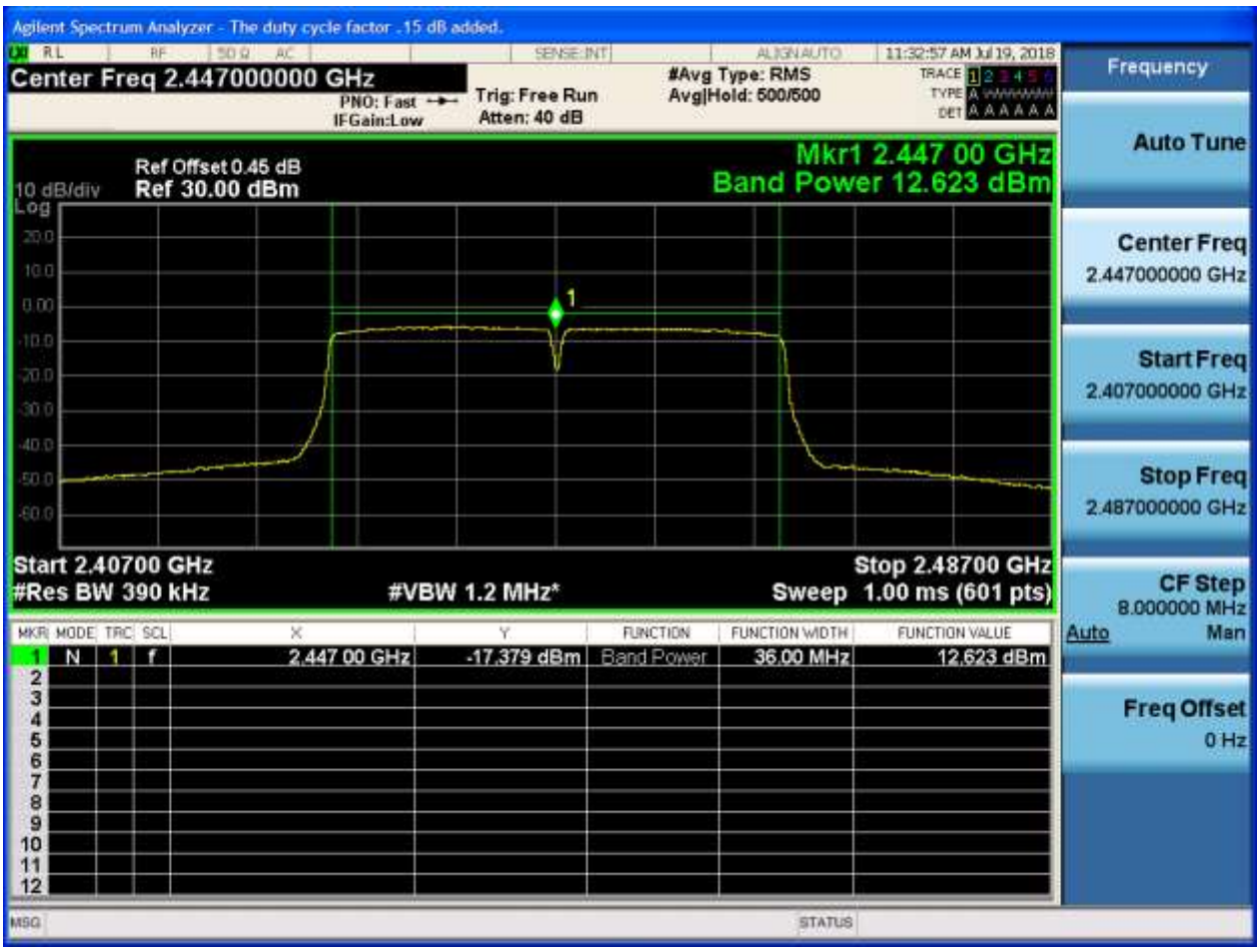
2.18 11N40_H_2447@Ant 1



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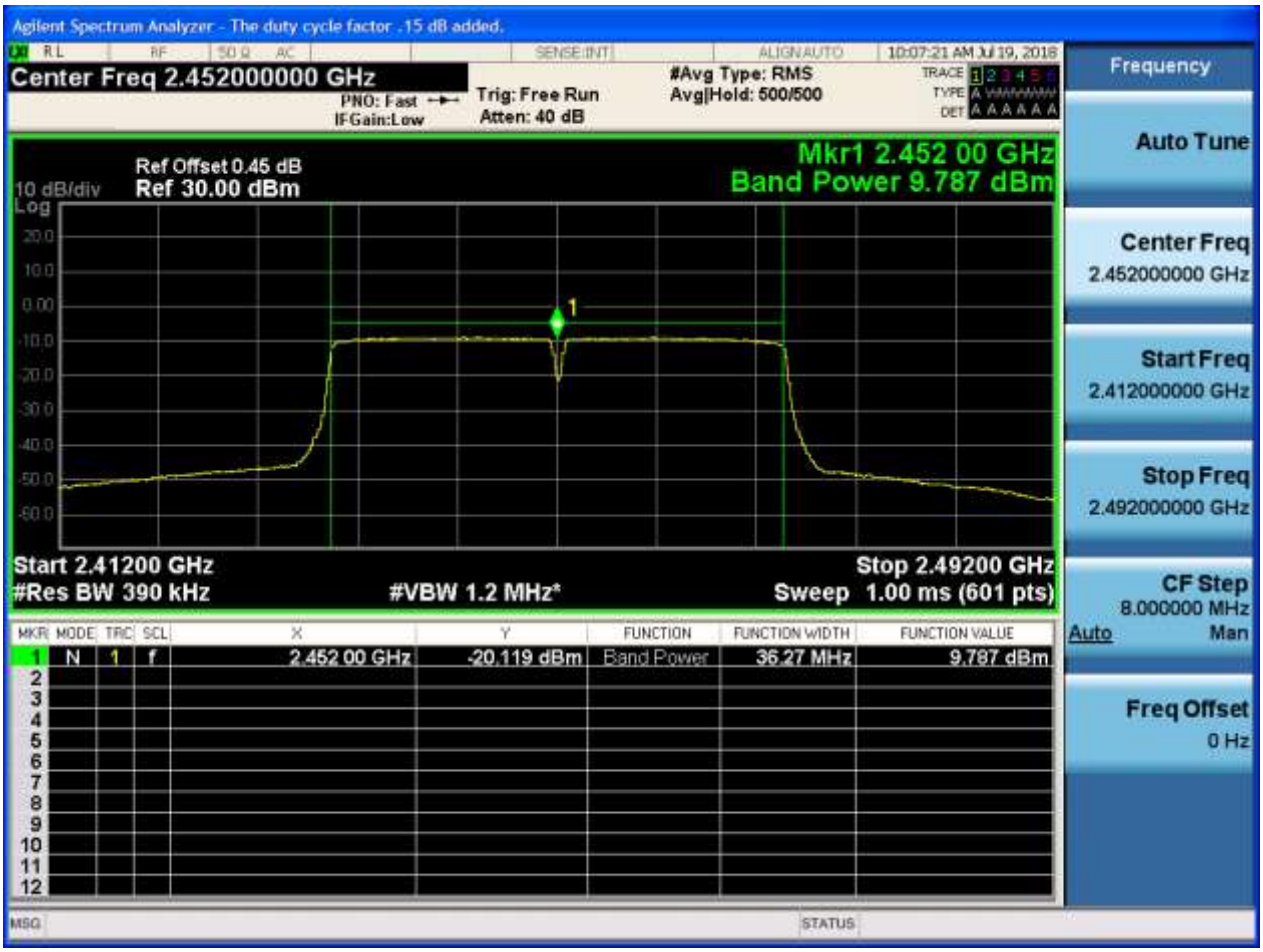
2.19 11N40_H_2452@Ant 1



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Appendix E: Maximum Power Spectral Density Level

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	PSD[dBm/10 kHz]	Verdict
11B	L	2412	Ant 1	99.5	-12.59	pass
11B	M	2437	Ant 1	99.5	-10.45	pass
11B	H	2457	Ant 1	99.5	-11.19	pass
11B	H	2462	Ant 1	99.5	-13.57	pass
11G	L	2412	Ant 1	97.6	-16.22	pass
11G	L	2417	Ant 1	97.6	-15.49	pass
11G	M	2437	Ant 1	97.6	-15.83	pass
11G	H	2457	Ant 1	97.6	-15.42	pass
11G	H	2462	Ant 1	97.6	-19.14	pass
11N20	L	2412	Ant 1	98.2	-17.43	pass
11N20	L	2417	Ant 1	98.2	-17.66	pass
11N20	M	2437	Ant 1	98.2	-17.82	pass
11N20	H	2457	Ant 1	98.2	-17.41	pass
11N20	H	2462	Ant 1	98.2	-20.13	pass
11N40	L	2422	Ant 1	96.5	-21.57	pass

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Test Mode	Test Channel	Frequency[MHz]	Ant	Duty Cycle [%]	PSD[dBm/10 kHz]	Verdict
11N40	L	2427	Ant 1	96.5	-19.51	pass
11N40	M	2437	Ant 1	96.5	-20.38	pass
11N40	H	2437	Ant 1	96.5	-19.59	pass
11N40	H	2452	Ant 1	96.5	-22.46	pass

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Part II - Test Plots

2.1 11B_L_2412@Ant 1

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2.2 11B_M_2437@Ant 1

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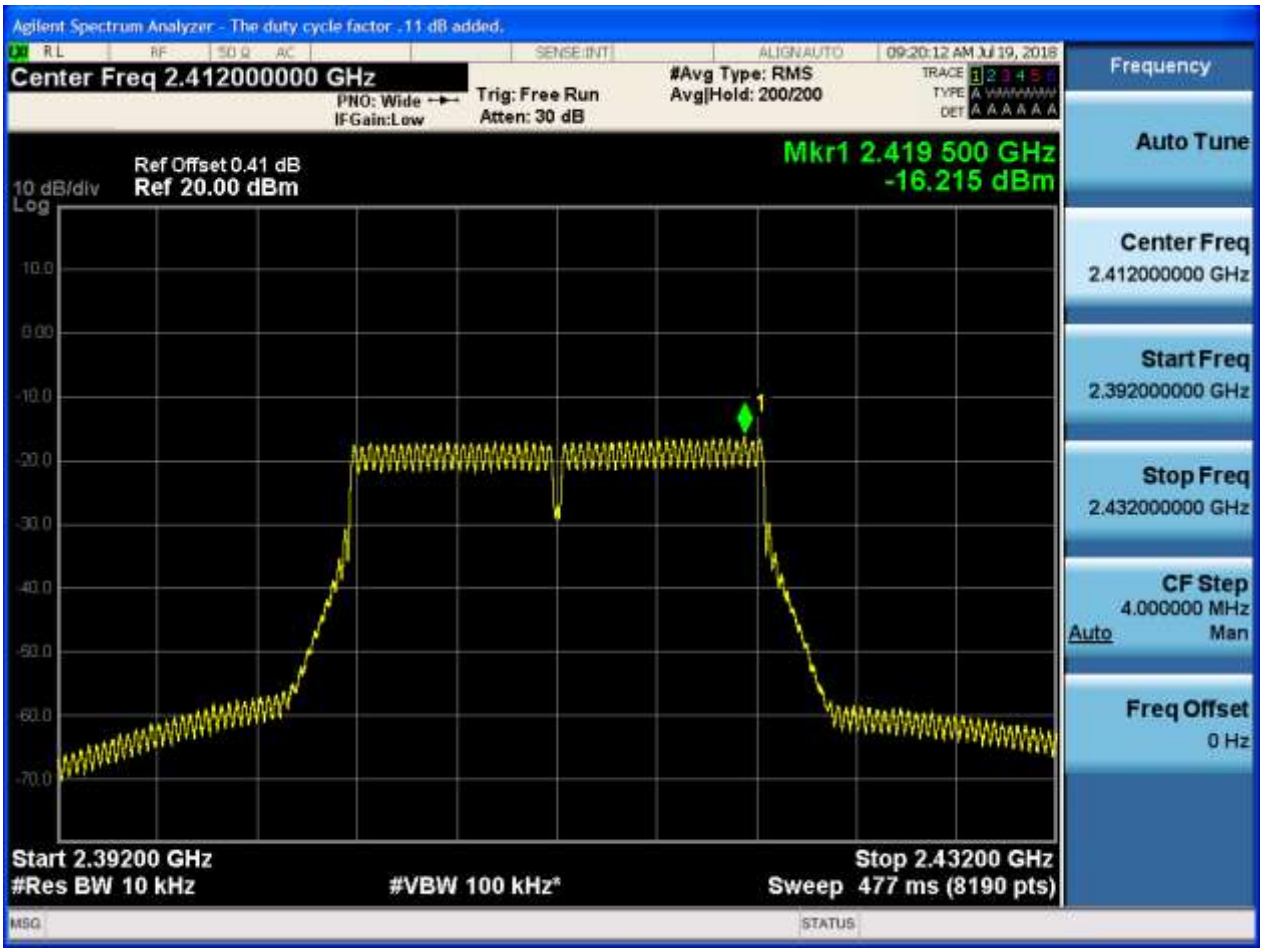
2.3 11B_H_2457@Ant 1

Copyright © Huawei Technologies Co., Ltd.

2.4 11B_H_2462@Ant 1

Copyright © Huawei Technologies Co., Ltd.

2.5 11G_L_2412@Ant 1



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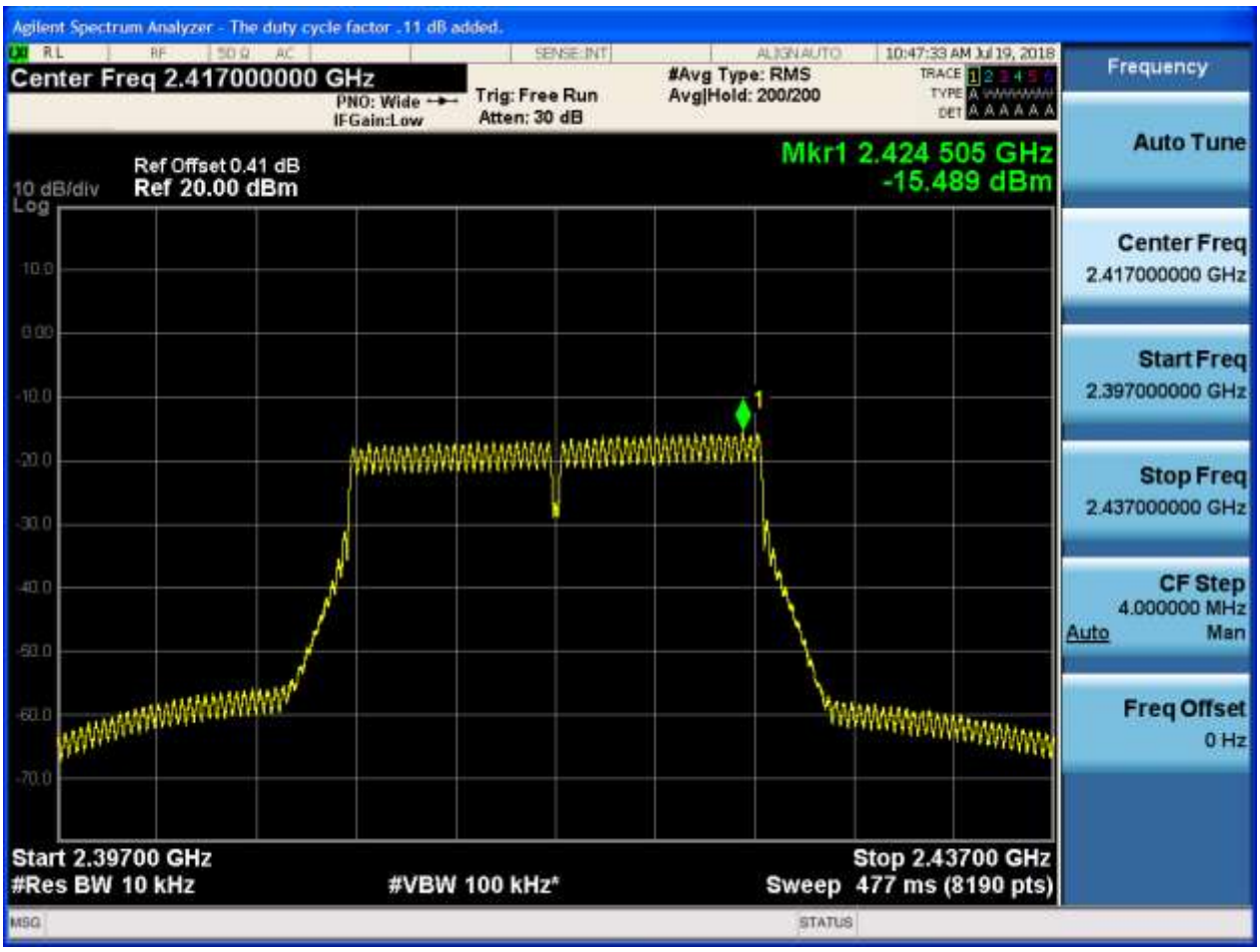
2.6 11G_M_2417@Ant 1



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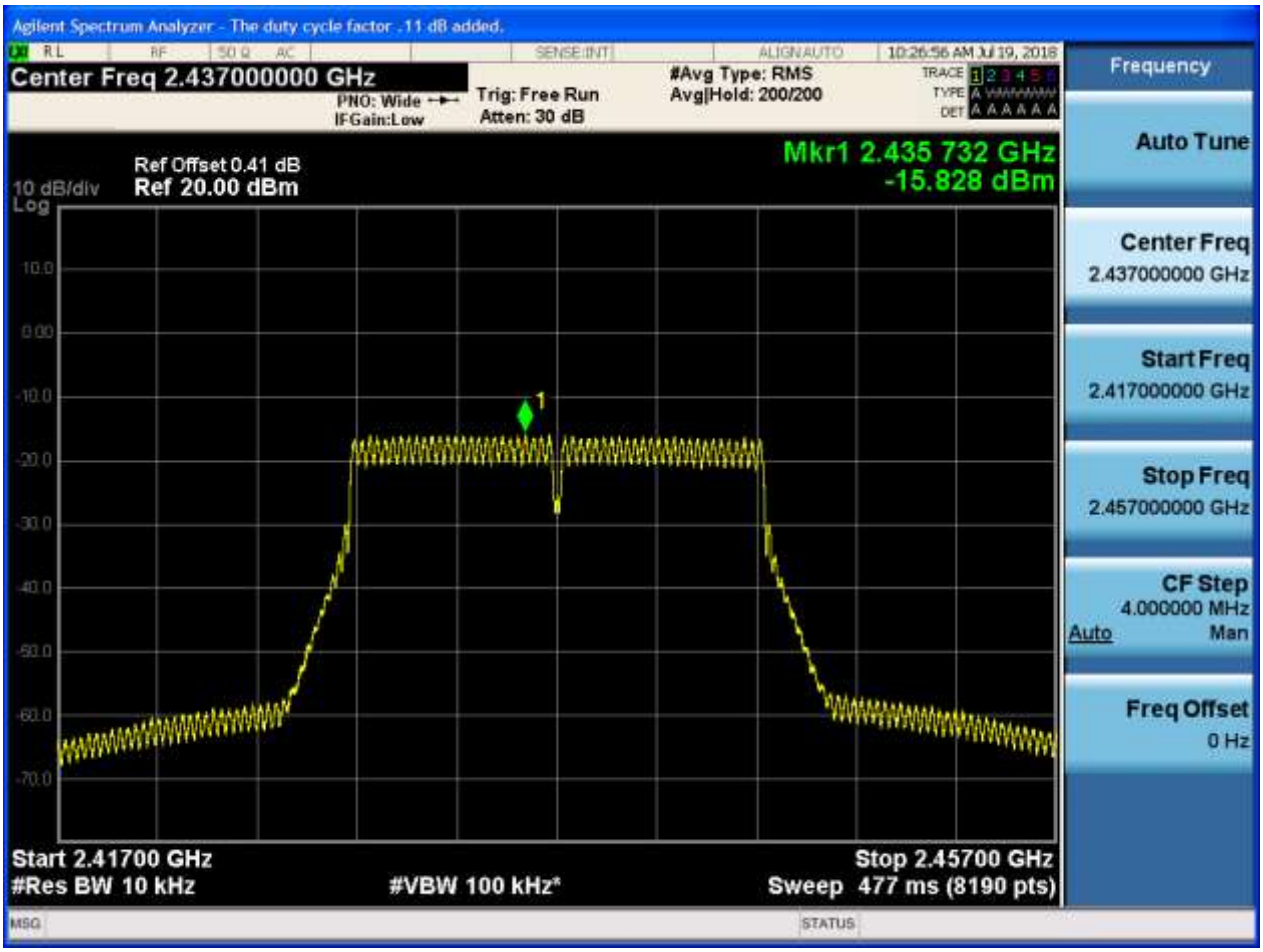
2.7 11G_M_2437@Ant 1



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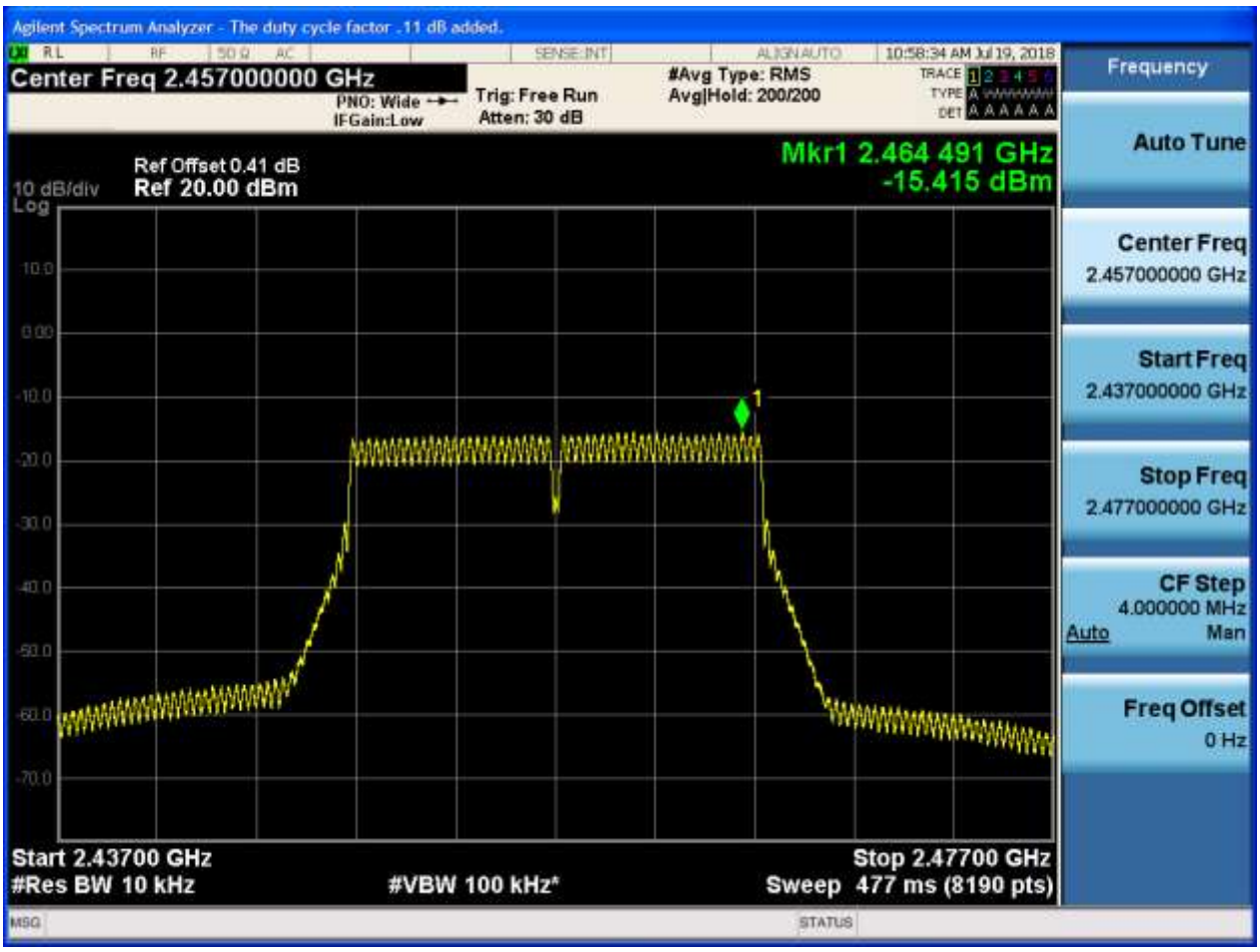
2.8 11G_H_2457@Ant 1



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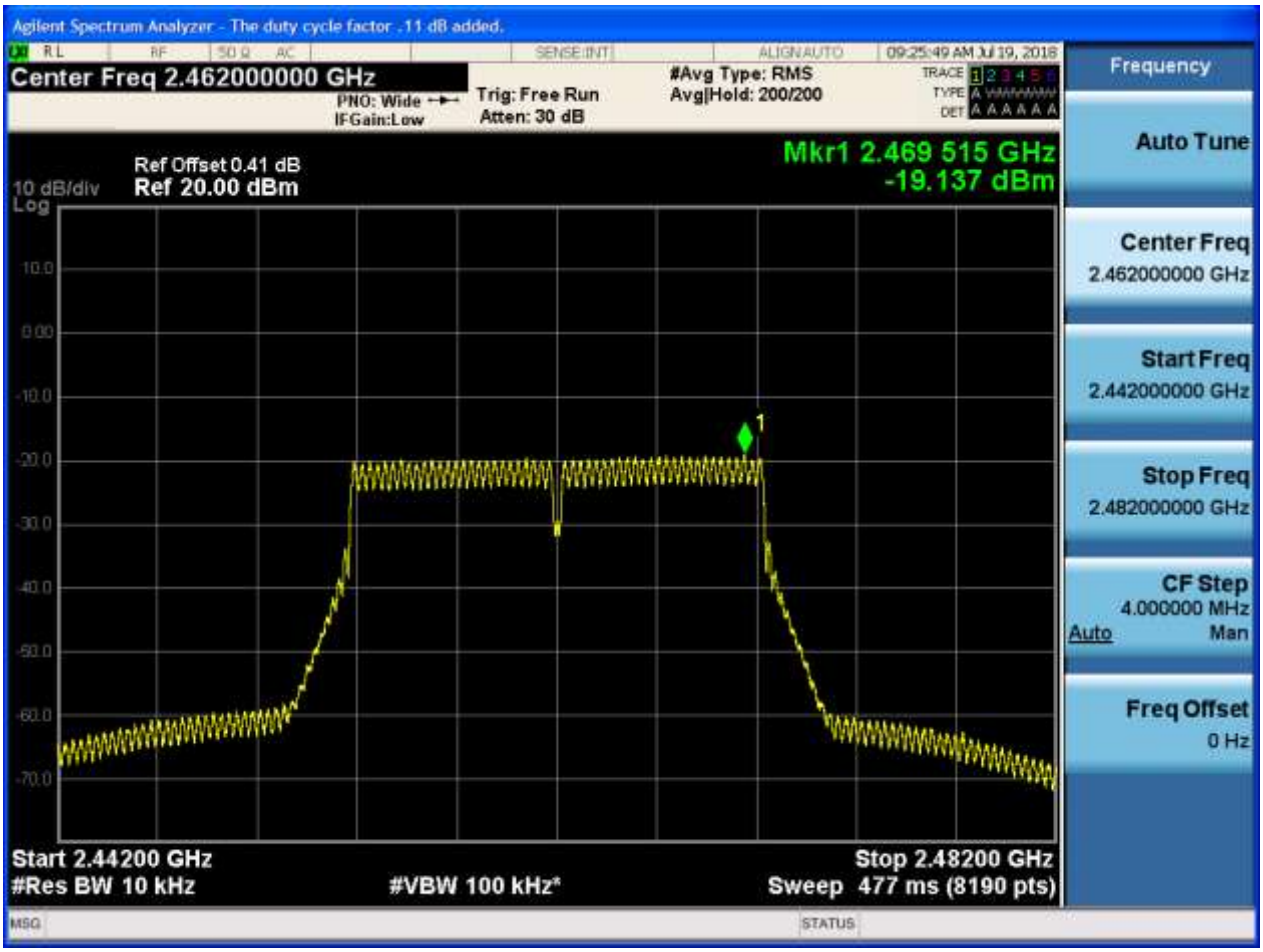

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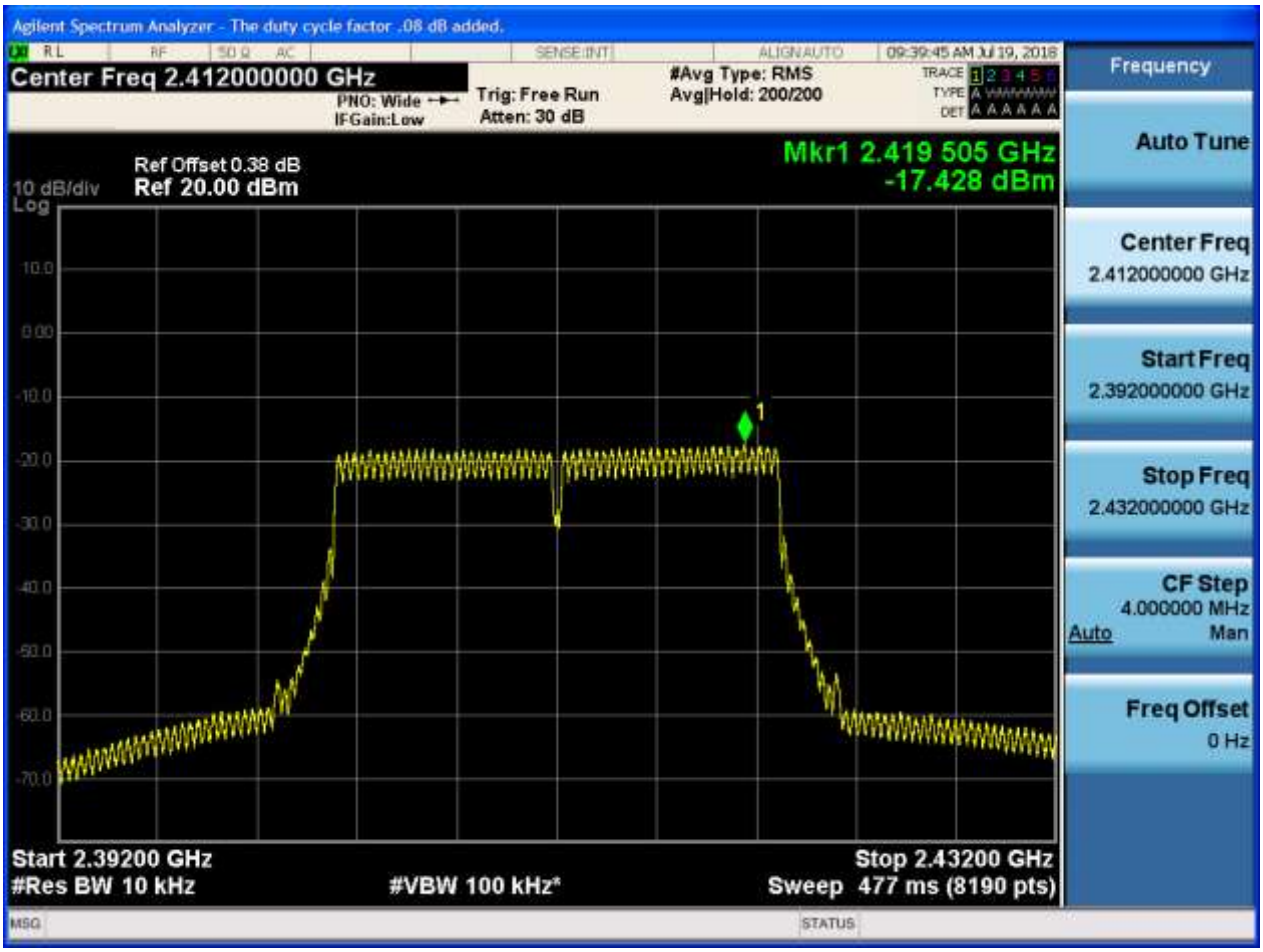

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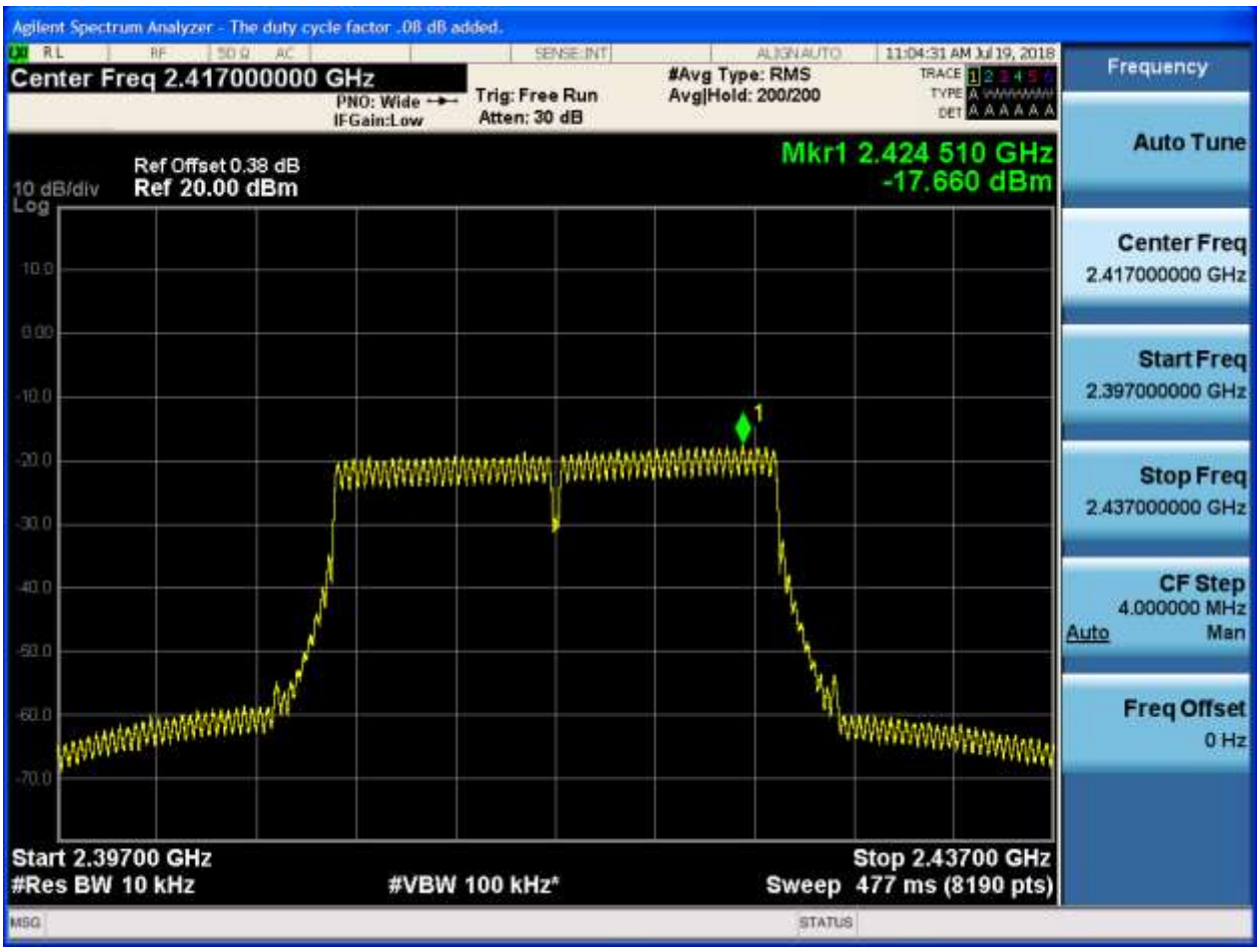

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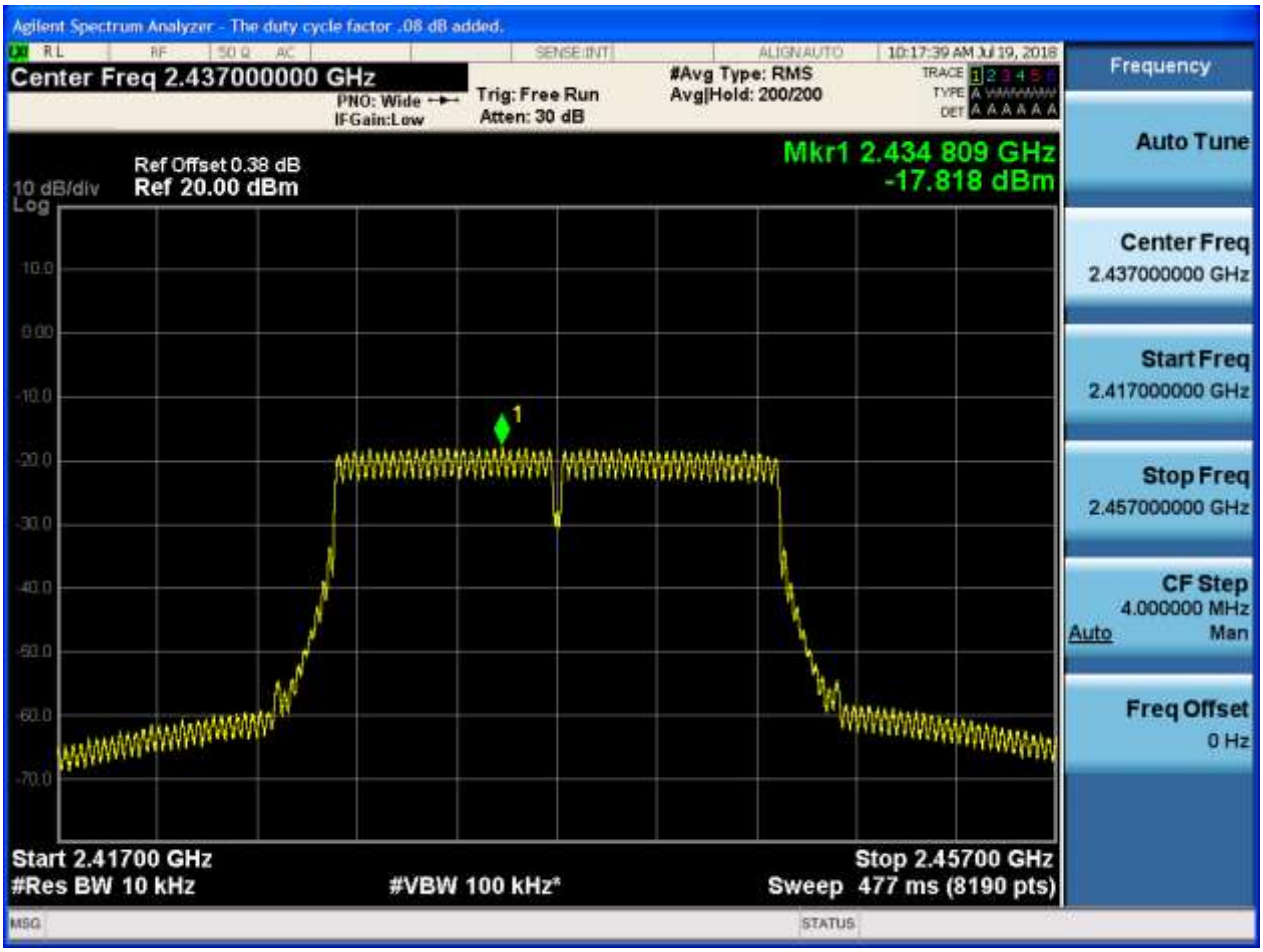
2.12 11N20_M_2437@Ant 1



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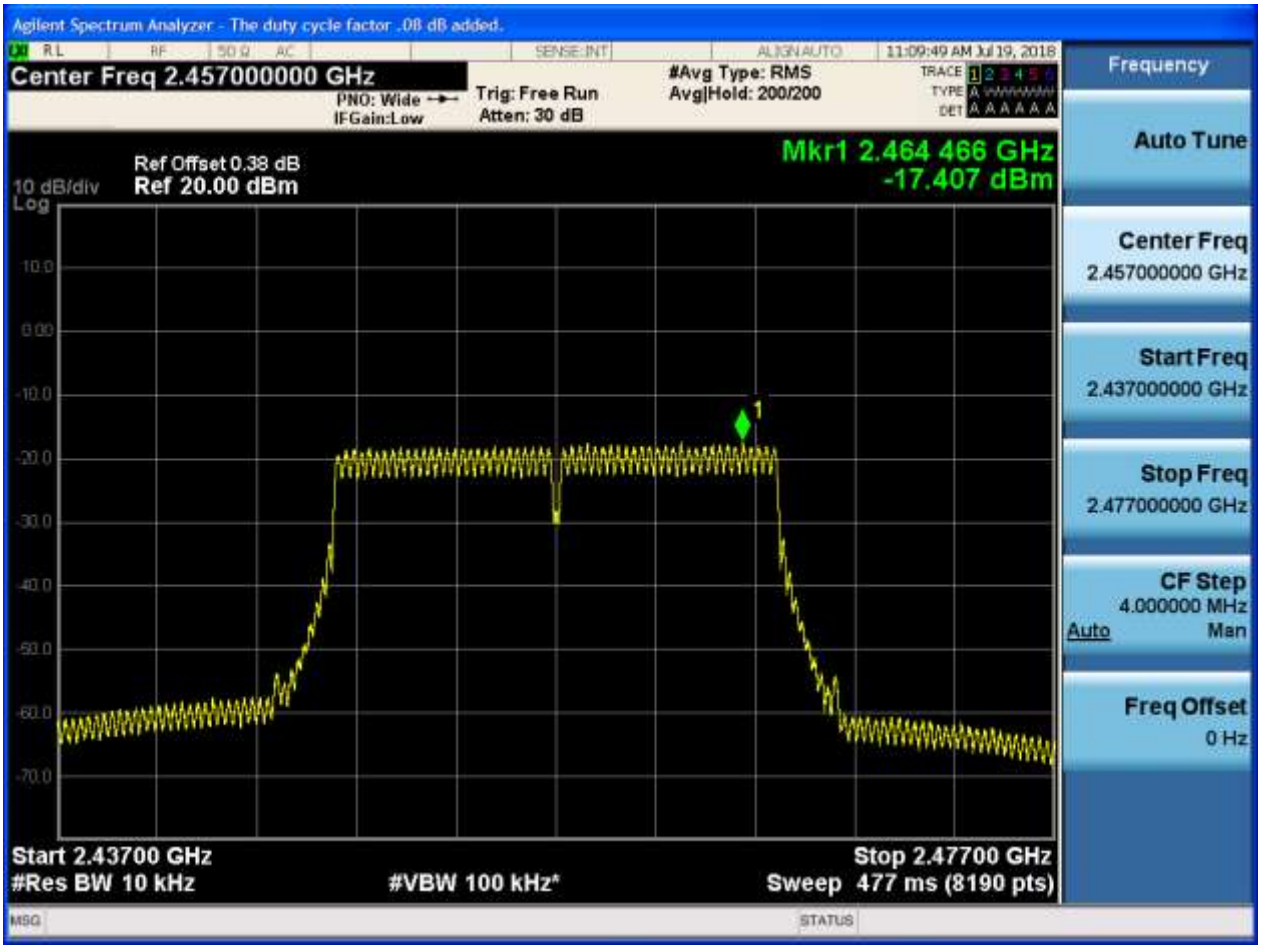
2.13 11N20_H_2457@Ant 1



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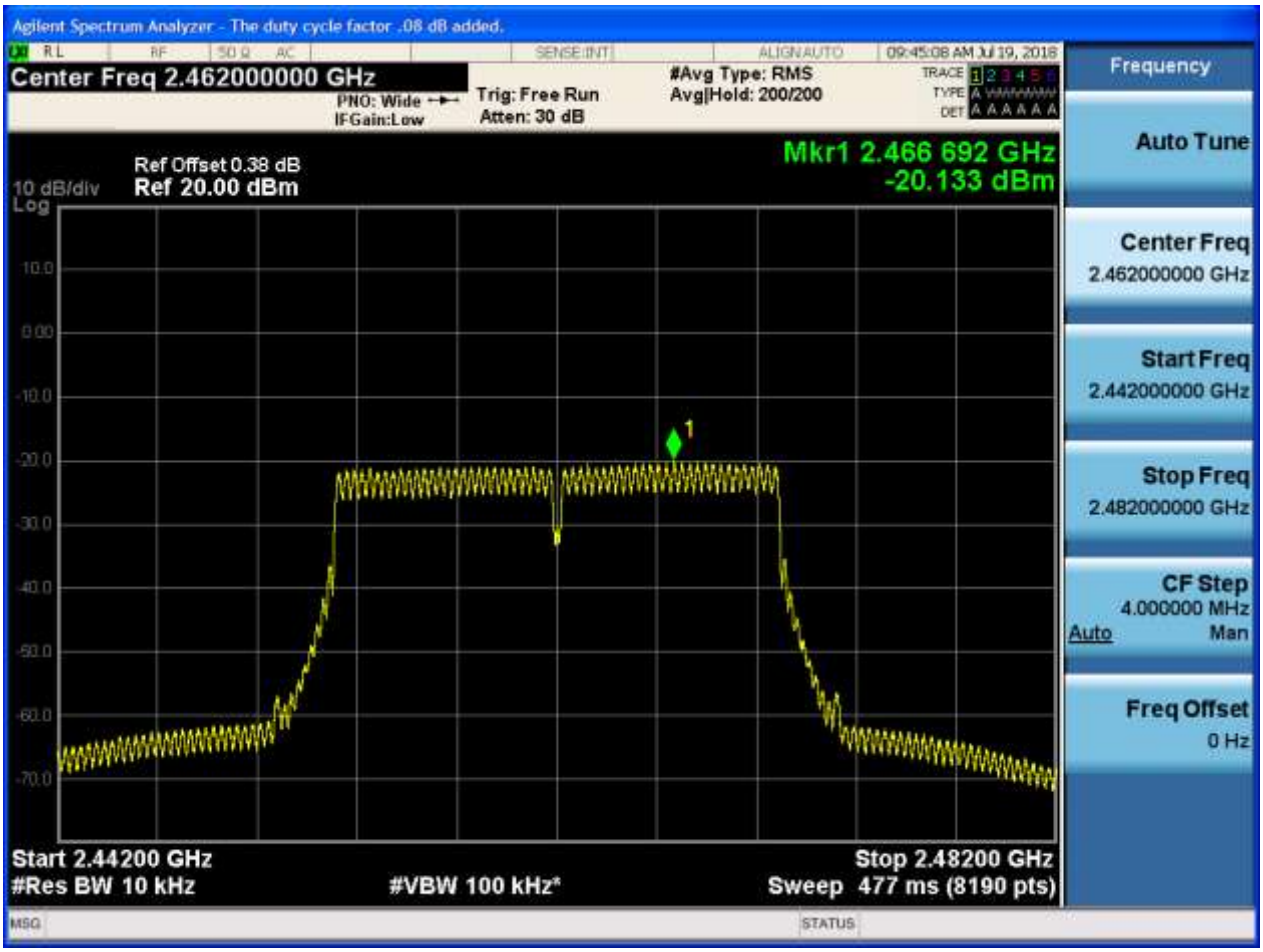
2.14 11N20_H_2462@Ant 1



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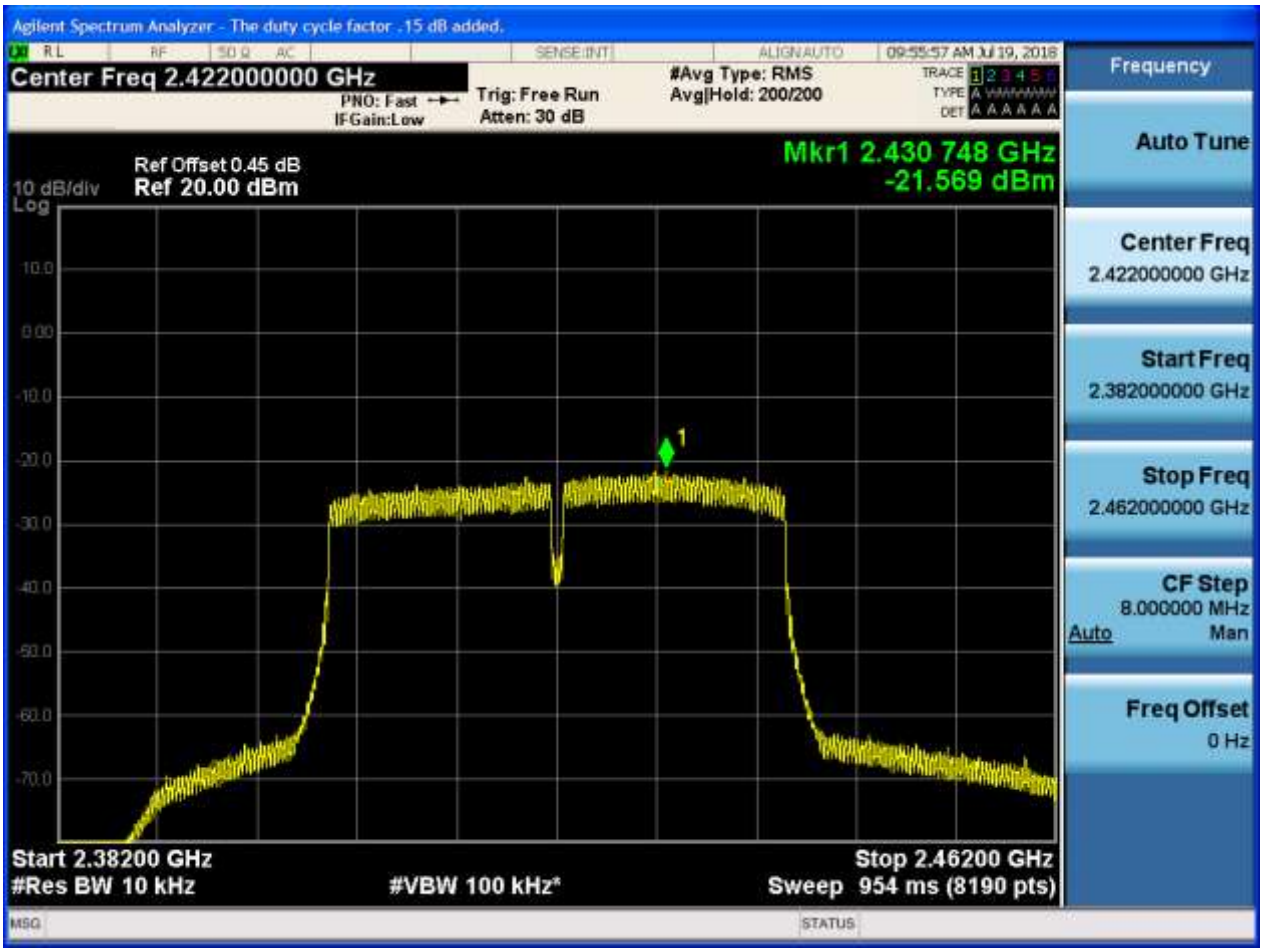
2.15 11N40_L_2422@Ant 1



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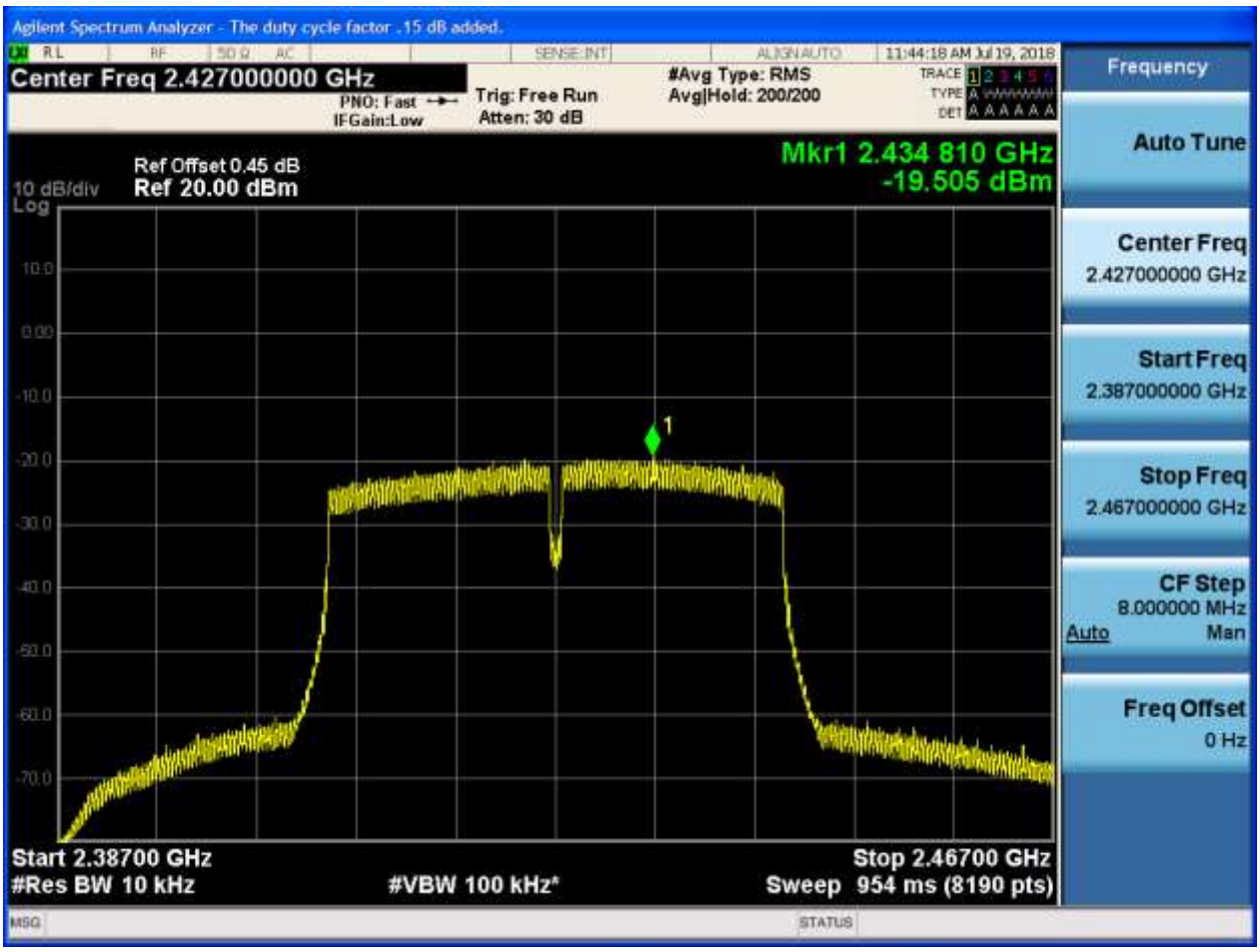
2.16 11N40_M_2427@Ant 1



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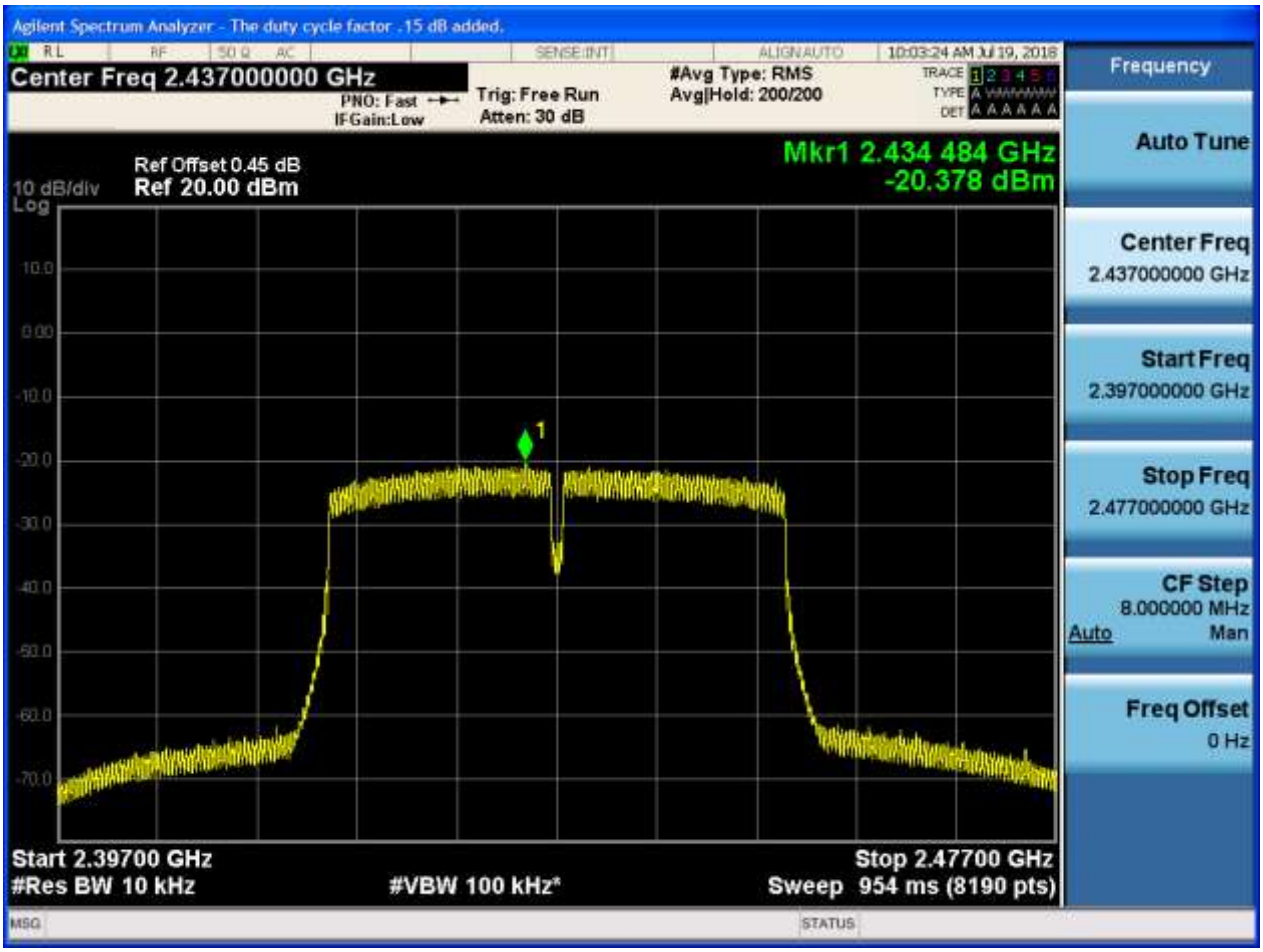
2.17 11N40_M_2437@Ant 1



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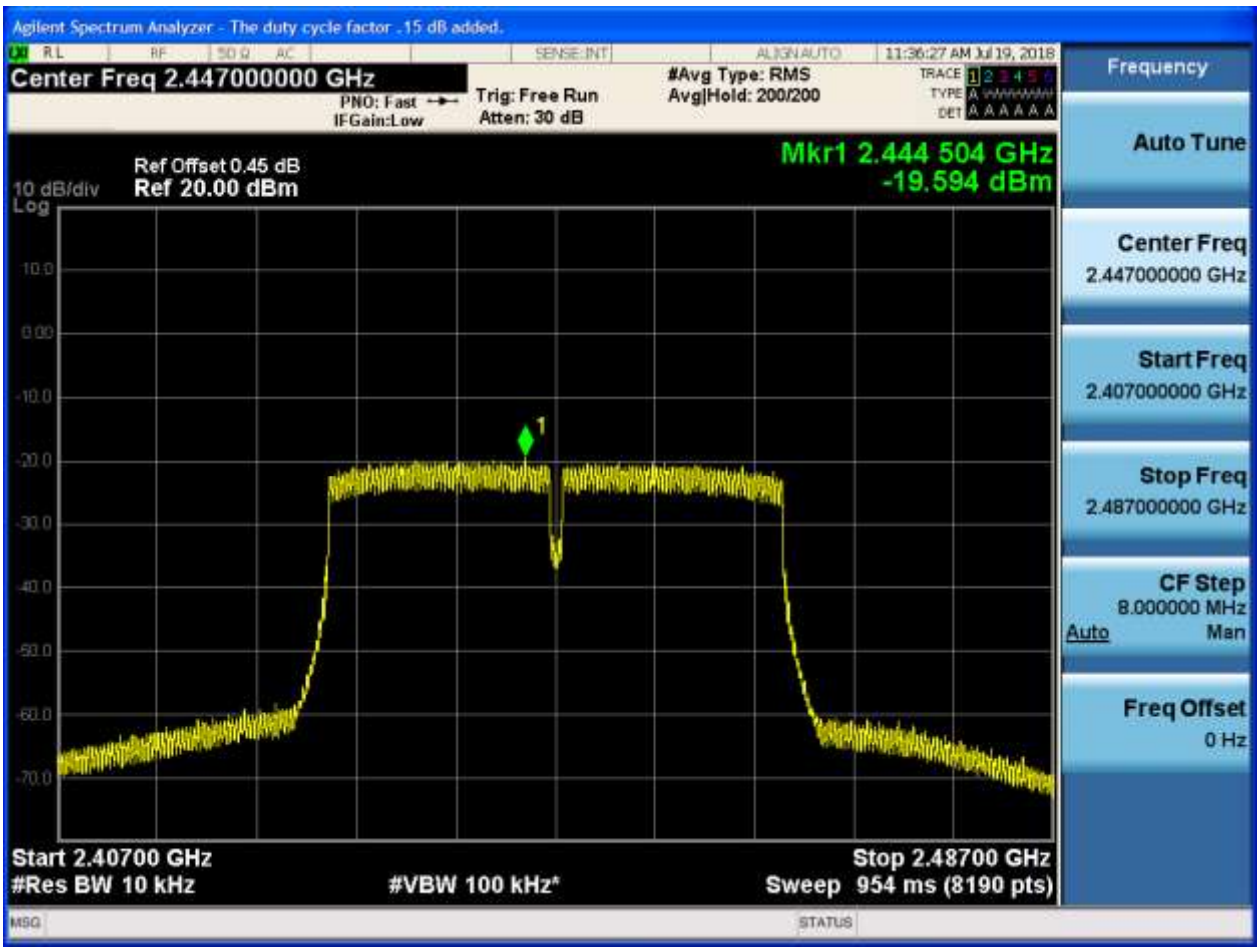
2.18 11N40_H_2447@Ant 1



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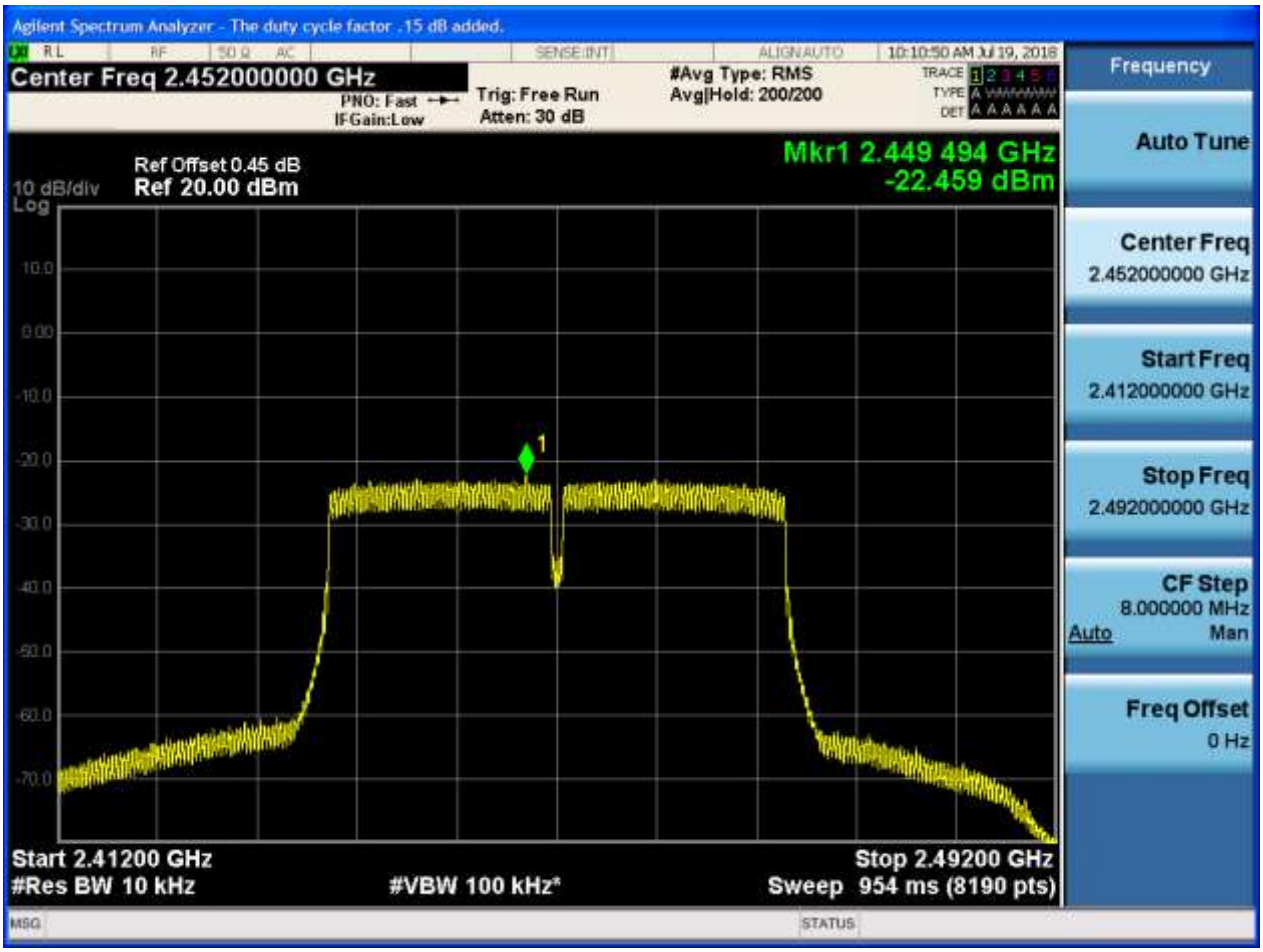
2.19 11N40_H_2452@Ant 1



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Appendix F: Band Edges Compliance

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
11B	L	2412	Ant 1	7.63	-40.71	pass
11B	H	2457	Ant 1	6.96	-50.66	pass
11B	H	2462	Ant 1	4.31	-50.83	pass
11G	L	2412	Ant 1	1.63	-39.58	pass
11G	L	2417	Ant 1	2.28	-40.82	pass
11G	H	2457	Ant 1	2.44	-40.17	pass
11G	H	2462	Ant 1	-1.08	-47.56	pass
11N20	L	2412	Ant 1	0.85	-41.22	pass
11N20	L	2417	Ant 1	0.68	-44.19	pass
11N20	H	2457	Ant 1	0.56	-49.96	pass
11N20	H	2462	Ant 1	-1.96	-48.88	pass
11N40	L	2422	Ant 1	-5.09	-46.05	pass
11N40	L	2427	Ant 1	-1.52	-44.81	pass
11N40	H	2447	Ant 1	-1.87	-47.01	pass
11N40	H	2452	Ant 1	-4.63	-47.26	pass

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Part II - Test Plots

2.1 11B_L_2412@Ant 1

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2.2 11B_H_2457@Ant 1

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2.3 11B_H_2462@Ant 1

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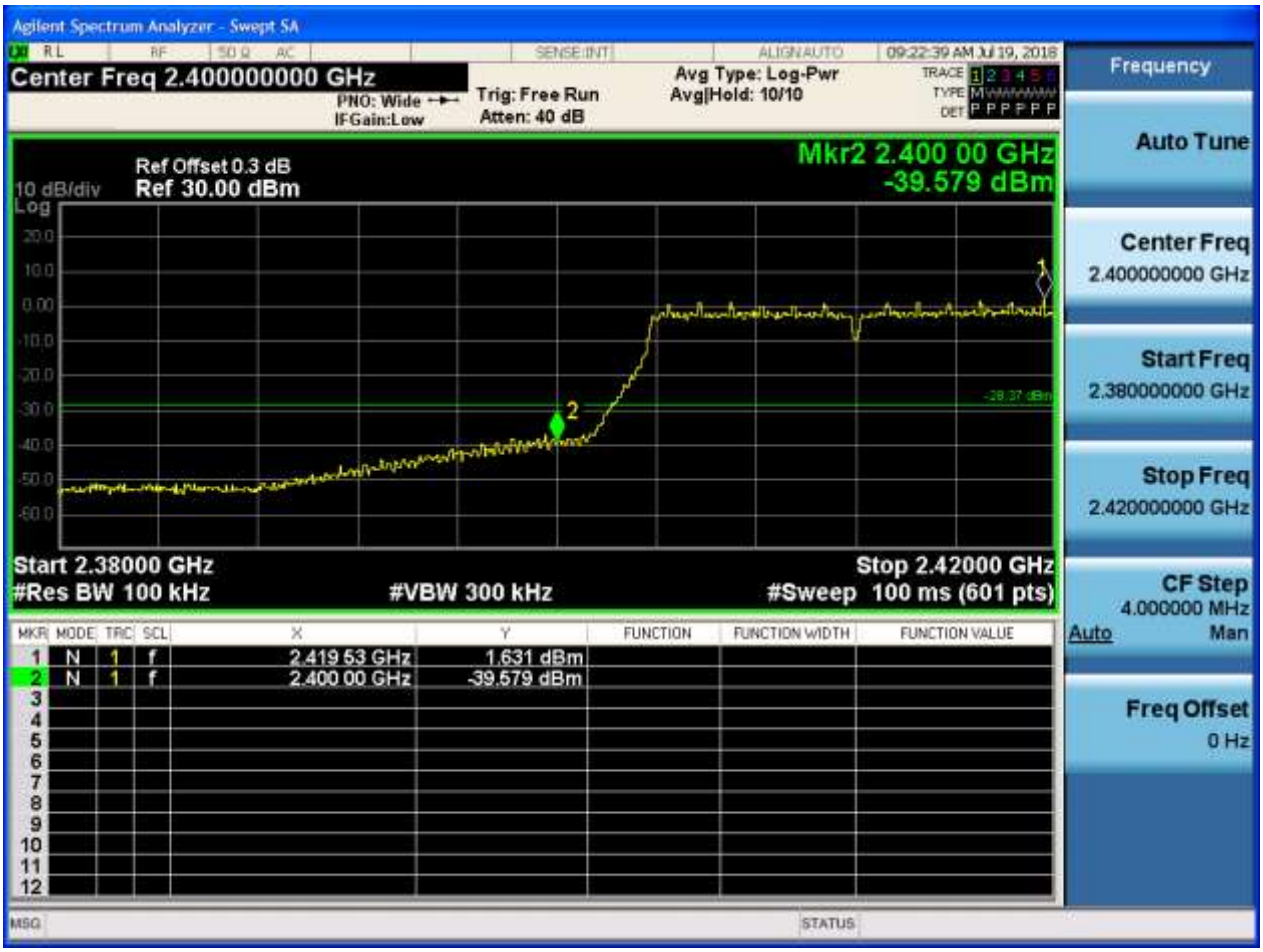
2.4 11G_L_2412@Ant 1



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2.5 11G_H_2417@Ant 1

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2.6 11G_H_2457@Ant 1

Copyright © Huawei Technologies Co., Ltd.

2.7 11G_H_2462@Ant 1

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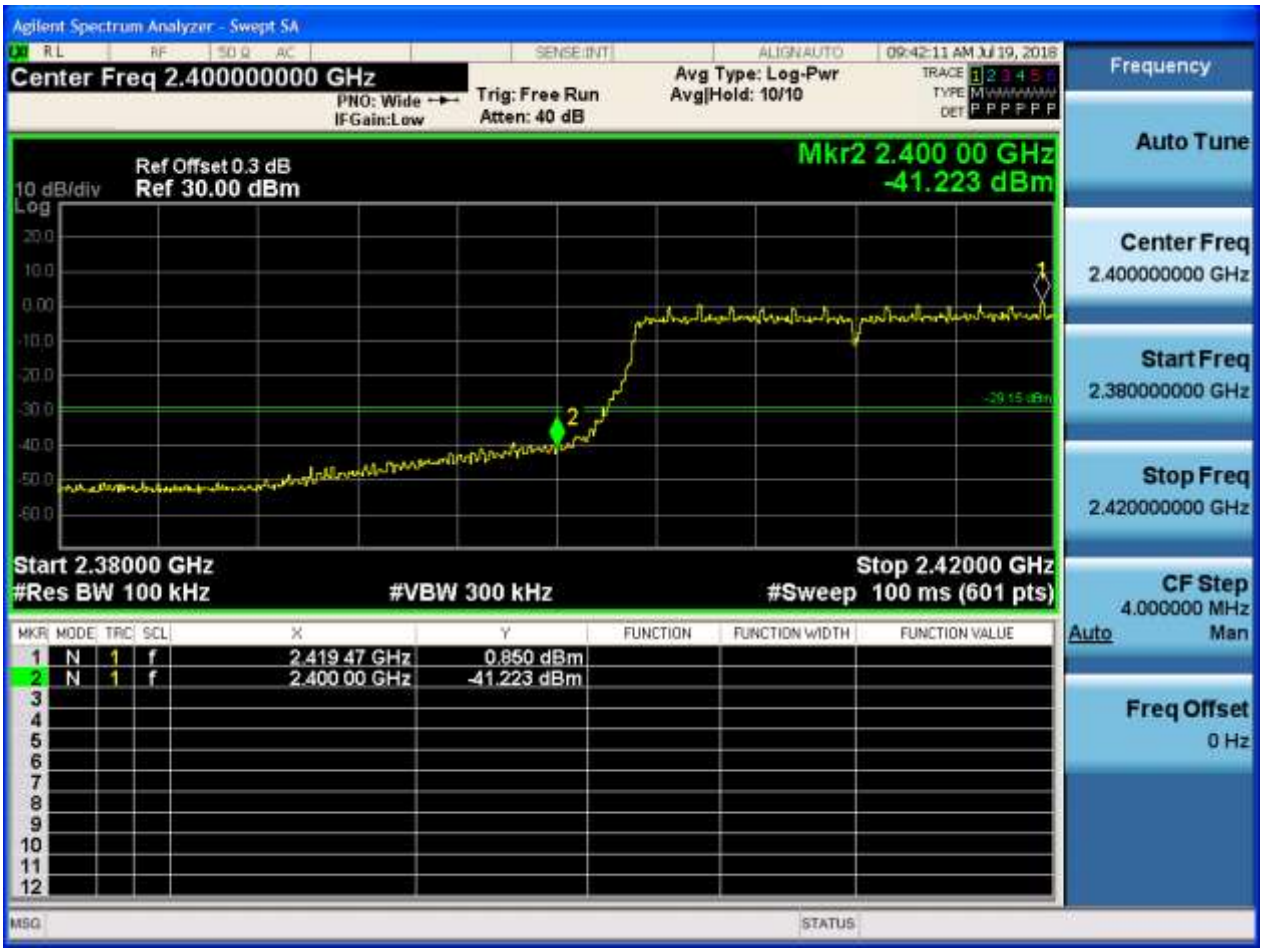
2.8 11N20_L_2412@Ant 1



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2.9 11N20_H_2417@Ant 1

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2.10 11N20_H_2457@Ant 1

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2.11 11N20_H_2462@Ant 1

Copyright © Huawei Technologies Co., Ltd.

2.12 11N40_L_2422@Ant 1

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2.13 11N40_H_2427@Ant 1

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2.14 11N40_H_2447@Ant 1

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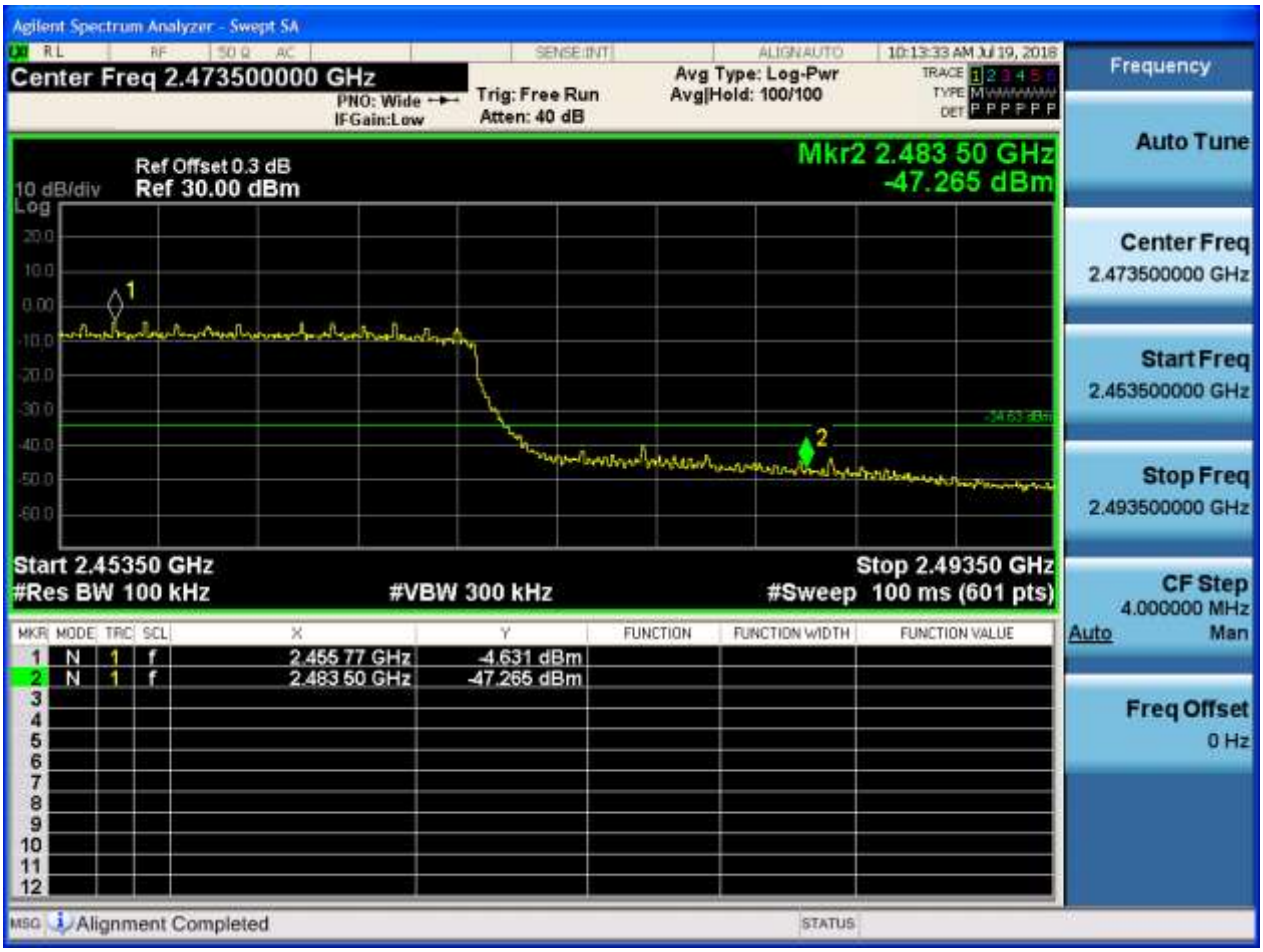
2.15 11N40_H_2452@Ant 1



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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" referrers 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 x lg(100 [kHz]/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".

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Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11B	L	2412	Ant 1	7.61	<limit	pass
11B	M	2437	Ant 1	7.46	<limit	pass
11B	H	2457	Ant 1	7.05	<limit	pass
11B	H	2462	Ant 1	4.44	<limit	pass
11G	L	2412	Ant 1	1.81	<limit	pass
11G	L	2417	Ant 1	2.26	<limit	pass
11G	M	2437	Ant 1	2.15	<limit	pass
11G	H	2457	Ant 1	2.56	<limit	pass
11G	H	2462	Ant 1	-0.94	<limit	pass
11N20	L	2412	Ant 1	0.61	<limit	pass
11N20	L	2417	Ant 1	0.79	<limit	pass
11N20	M	2437	Ant 1	0.64	<limit	pass
11N20	H	2457	Ant 1	0.67	<limit	pass
11N20	H	2462	Ant 1	-1.87	<limit	pass
11N40	L	2422	Ant 1	-3.30	<limit	pass
11N40	L	2427	Ant 1	-1.08	<limit	pass
11N40	M	2437	Ant 1	-2.38	<limit	pass
11N40	H	2447	Ant 1	-1.23	<limit	pass
11N40	H	2452	Ant 1	-4.26	<limit	pass

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Part II - Test Plots

2.1 11B_L_2412@Ant 1

Pref:

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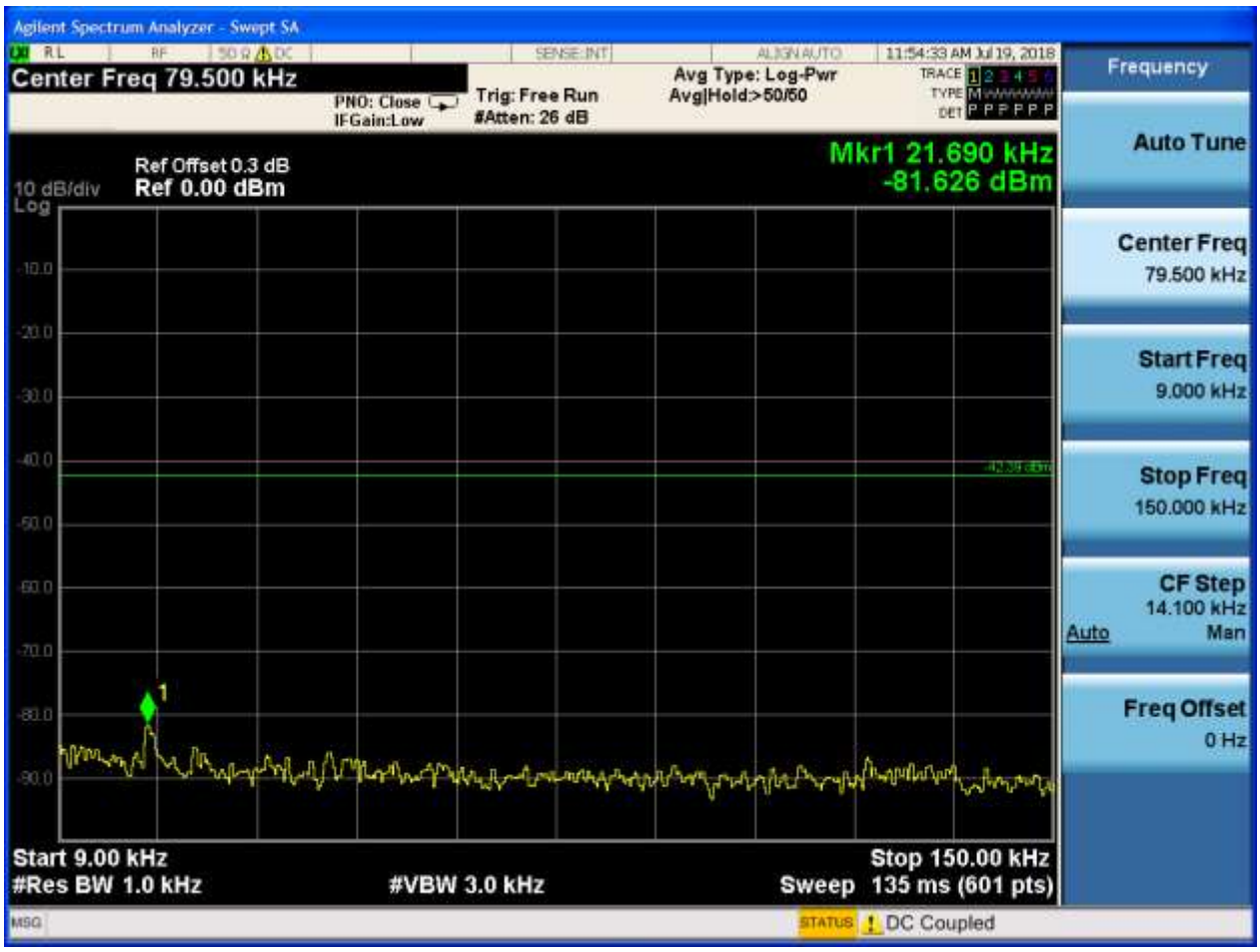
Puw:



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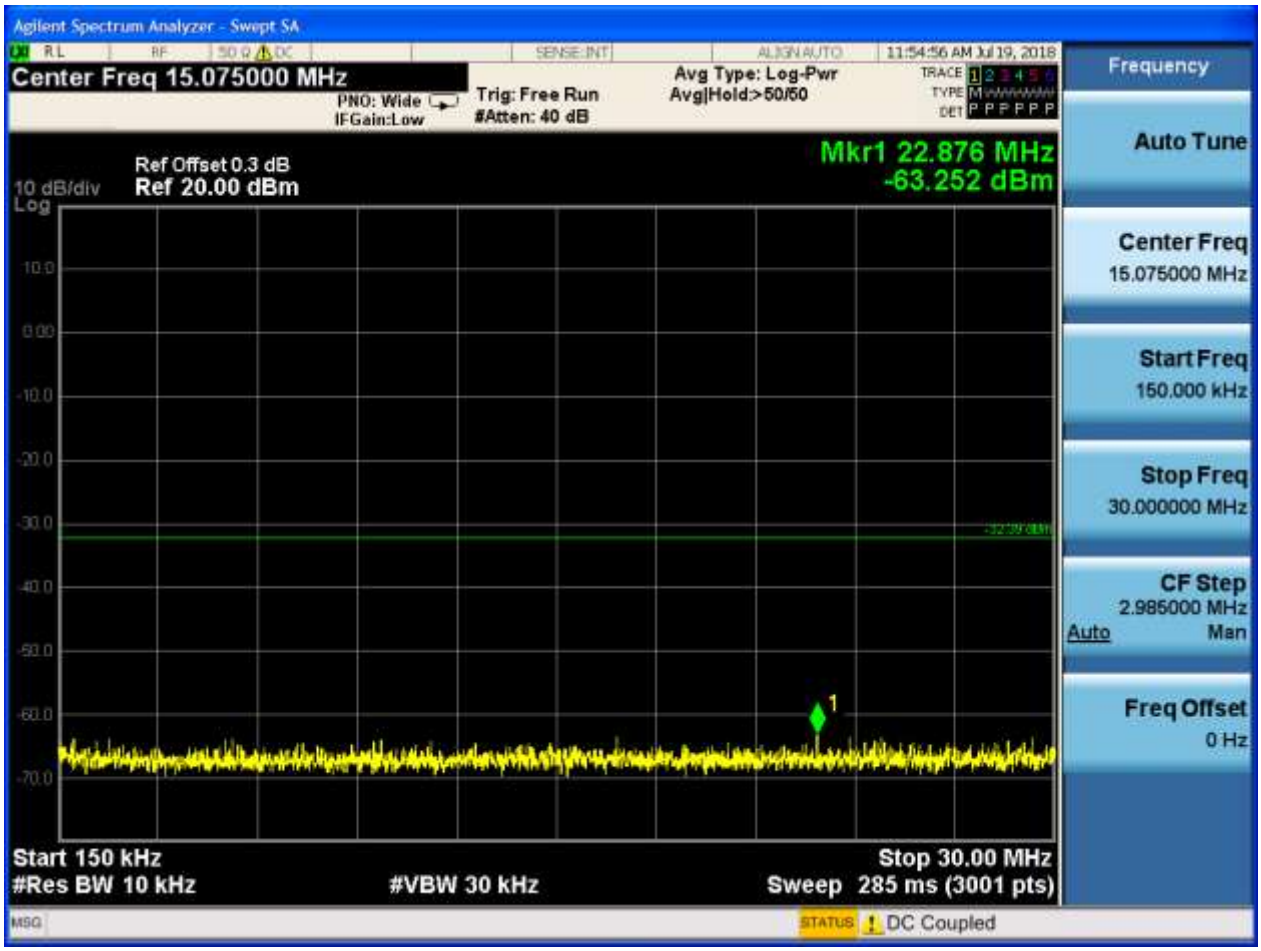

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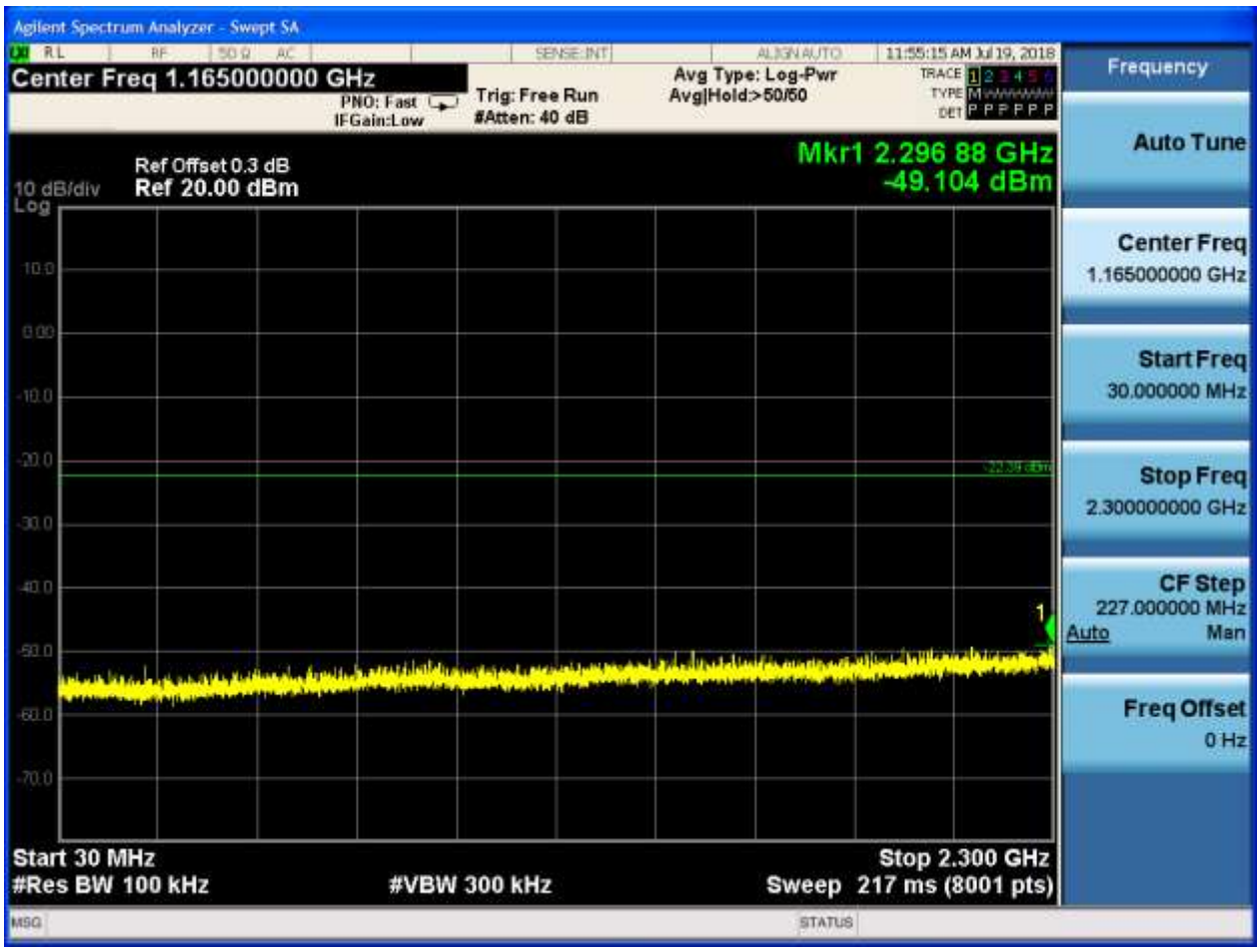

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