Appendix A for SHEM190701567201

1.6dB Bandwidth

Test Mode	Test	EBW[MHz]		Limit	Verdict
		Ant1	Ant2		
11B	2412	10.07	10.07	0.5	PASS
11B	2437	10.05	10.07	0.5	PASS
11B	2462	10.07	10.07	0.5	PASS
11G	2412	16.59	16.58	0.5	PASS
11G	2437	16.58	16.58	0.5	PASS
11G	2462	16.58	16.58	0.5	PASS
11N20SISO	2412	17.80	17.83	0.5	PASS
11N20SISO	2437	17.80	17.82	0.5	PASS
11N20SISO	2462	17.81	17.82	0.5	PASS
11N40SISO	2422	36.44	36.46	0.5	PASS
11N40SISO	2437	36.39	36.41	0.5	PASS
11N40SISO	2452	36.39	36.40	0.5	PASS

6dB Bandwidth_11B_2412_Ant1

6dB Bandwidth_11B_2437_Ant1

6dB Bandwidth_11B_2462_Ant1

6dB Bandwidth_11G_2412_Ant1
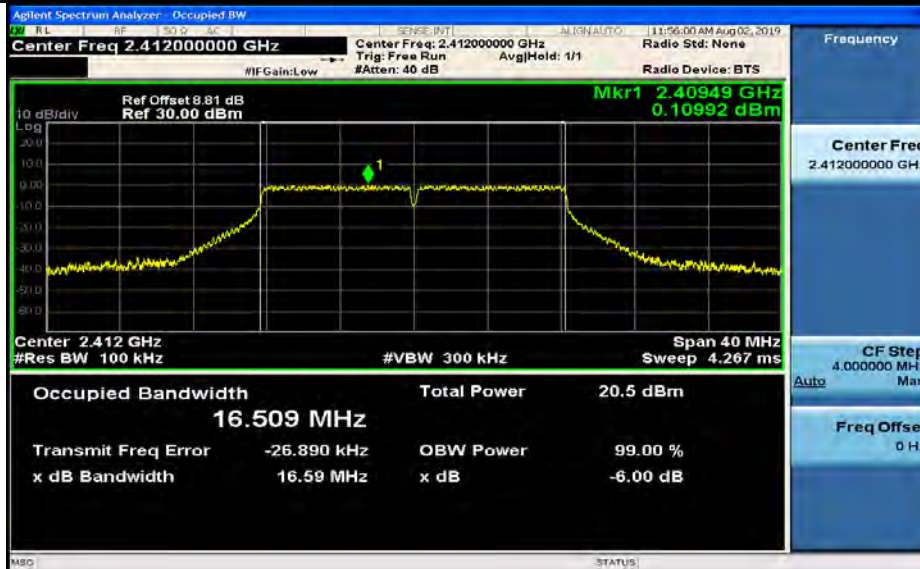
6dB Bandwidth_11G_2437_Ant1
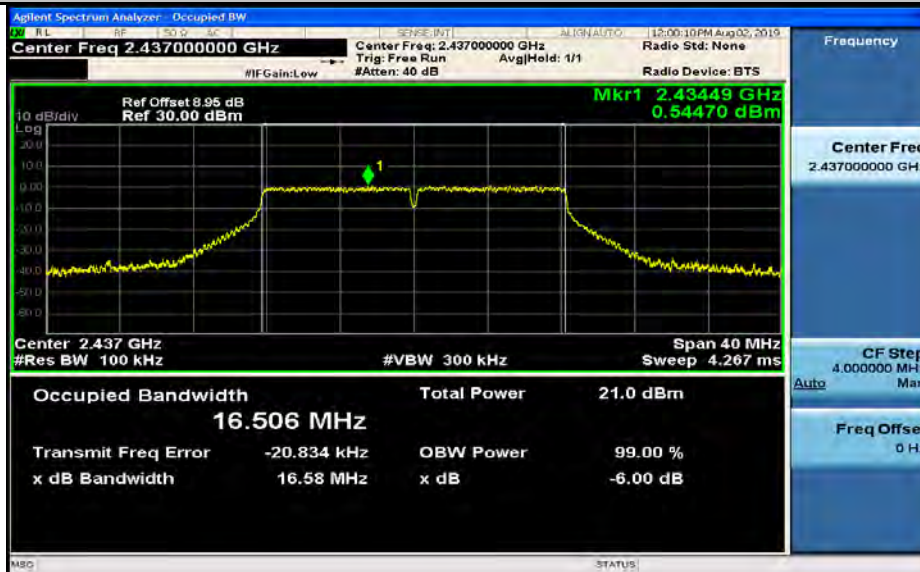
6dB Bandwidth_11G_2462_Ant1

6dB Bandwidth_11N20SISO_2412_Ant1

6dB Bandwidth_11N20SISO_2437_Ant1

6dB Bandwidth_11N20SISO_2462_Ant1

6dB Bandwidth_11N40SISO_2422_Ant1

6dB Bandwidth_11N40SISO_2437_Ant1
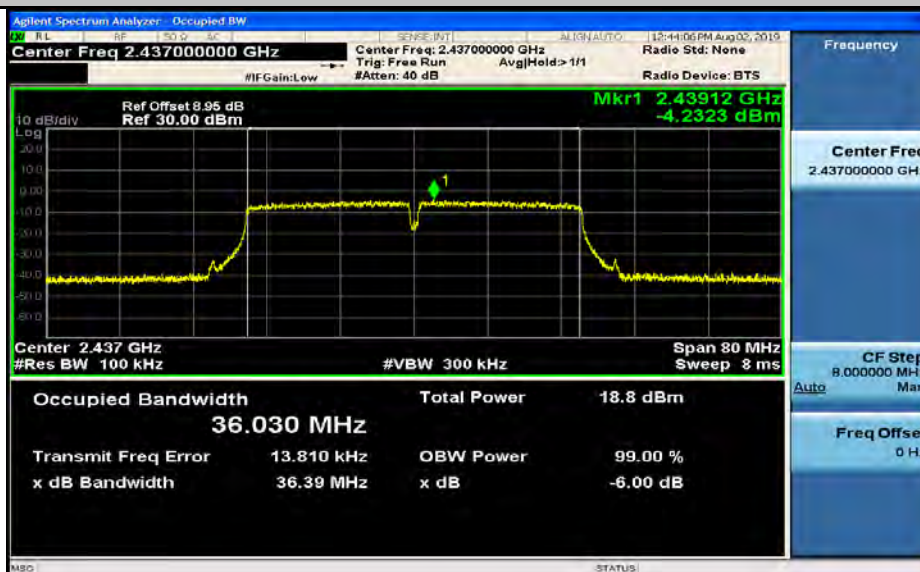
6dB Bandwidth_11N40SISO_2452_Ant1
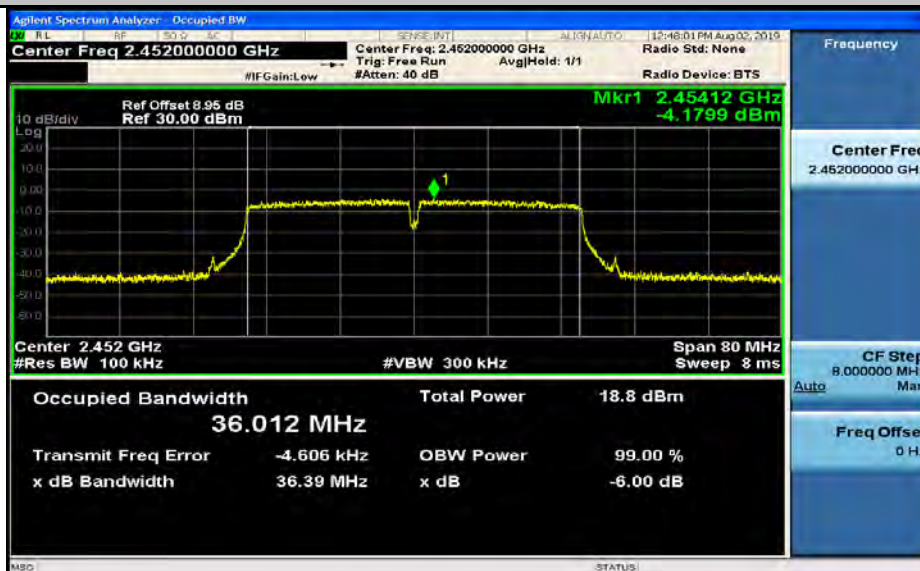
6dB Bandwidth_11B_2412_Ant2

6dB Bandwidth_11B_2437_Ant2

6dB Bandwidth_11B_2462_Ant2

6dB Bandwidth_11G_2412_Ant2

6dB Bandwidth_11G_2437_Ant2

6dB Bandwidth_11G_2462_Ant2
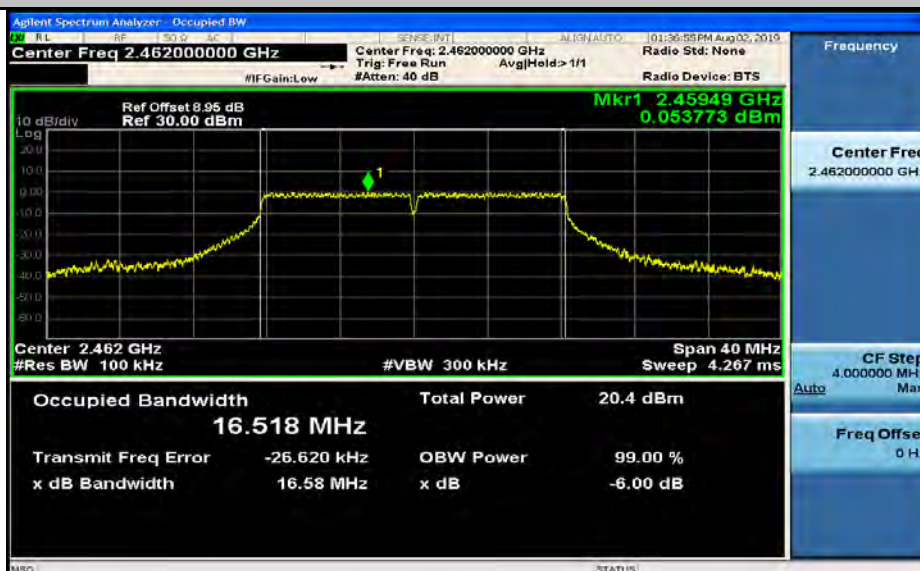
6dB Bandwidth_11N20SISO_2412_Ant2

6dB Bandwidth_11N20SISO_2437_Ant2
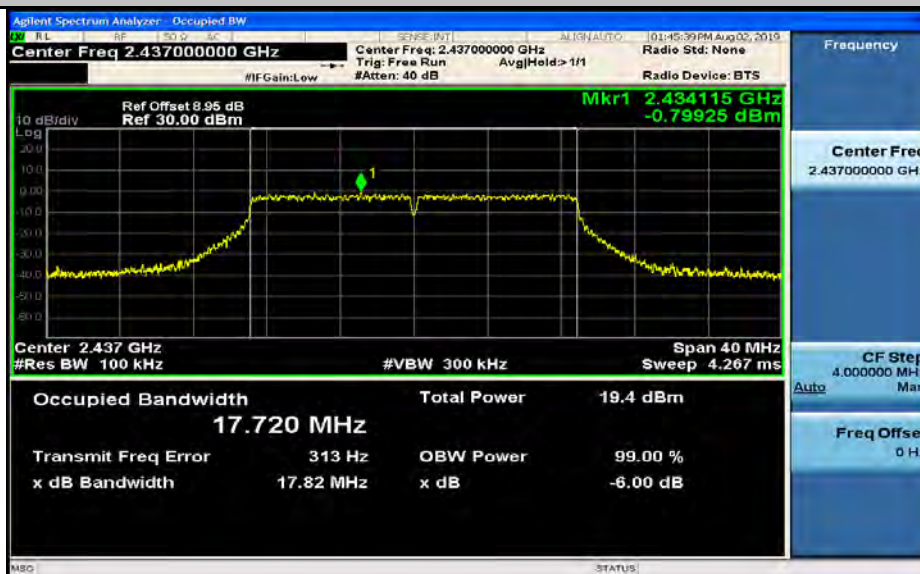
6dB Bandwidth_11N20SISO_2462_Ant2
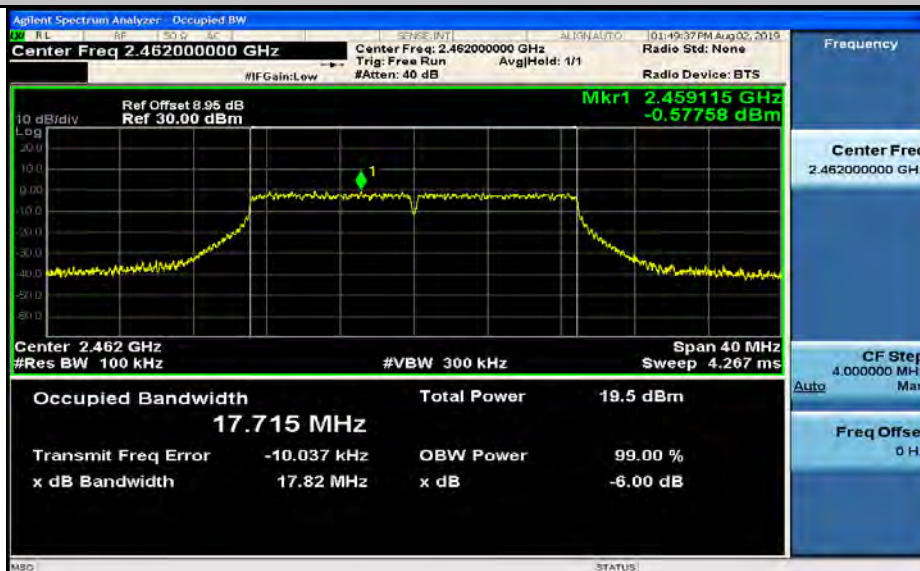
6dB Bandwidth_11N40SISO_2422_Ant2
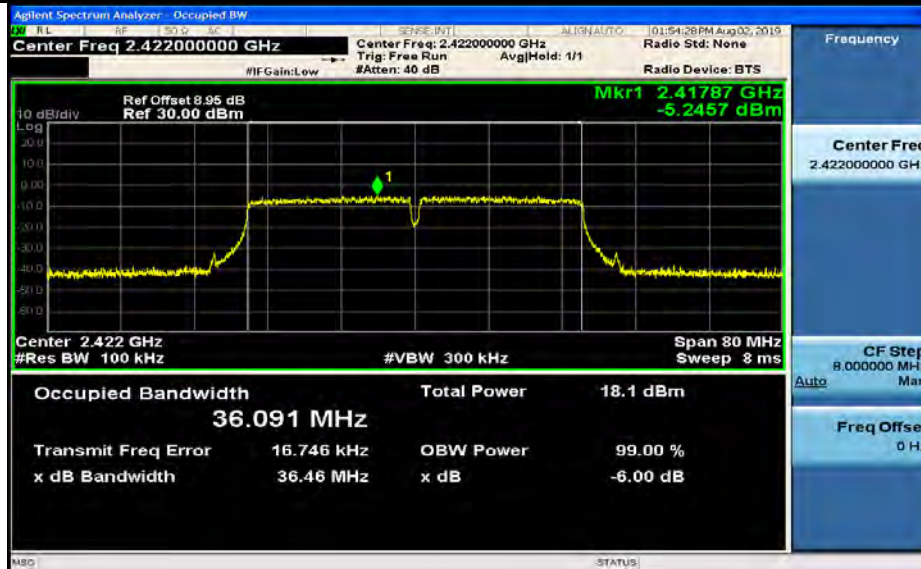
6dB Bandwidth_11N40SISO_2437_Ant2
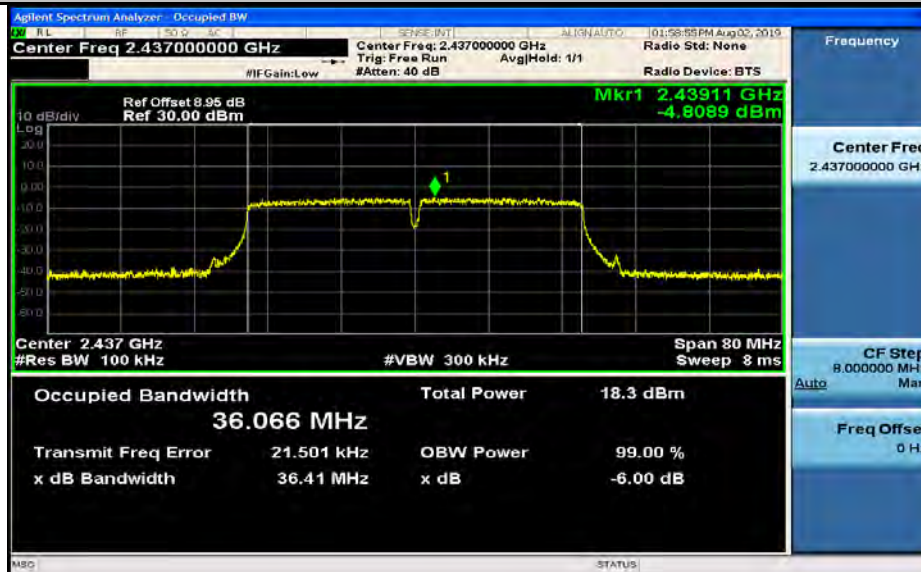
6dB Bandwidth_11N40SISO_2452_Ant2

2.Occupied Bandwidth

Test Mode	Test Channel	OBW[MHz]		Limit[MHz]	Verdict
		Ant1	Ant2		
11B	2412	15.12	15.17	---	PASS
11B	2437	15.09	15.12	---	PASS
11B	2462	15.09	15.12	---	PASS
11G	2412	16.96	16.97	---	PASS
11G	2437	16.92	16.95	---	PASS
11G	2462	16.96	16.92	---	PASS
11N20SISO	2412	18.02	18.05	---	PASS
11N20SISO	2437	17.98	18.02	---	PASS
11N20SISO	2462	18.00	18.02	---	PASS
11N40SISO	2422	36.55	36.63	---	PASS
11N40SISO	2437	36.50	36.56	---	PASS
11N40SISO	2452	36.48	36.55	---	PASS

Occupied Bandwidth_11B_2412_Ant1
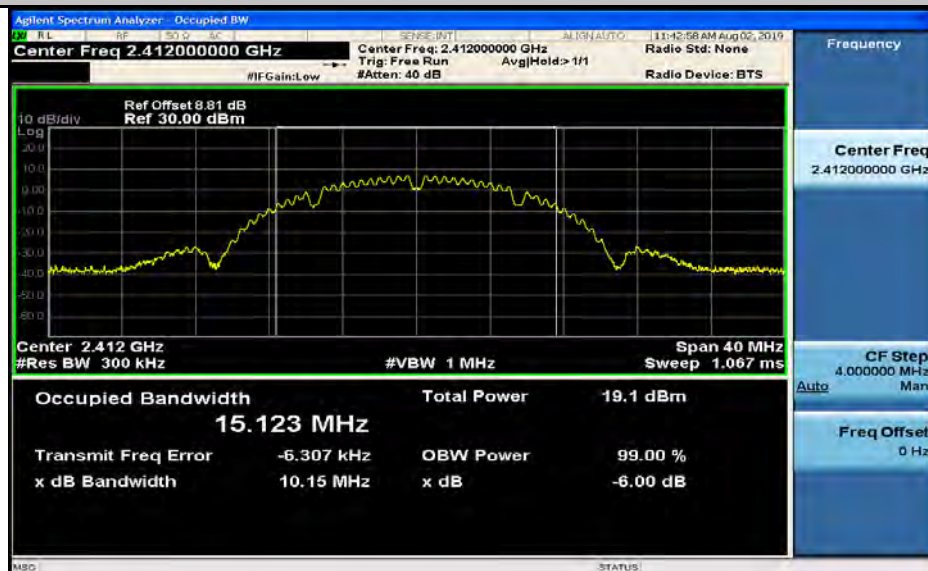
Occupied Bandwidth_11B_2437_Ant1

Occupied Bandwidth_11B_2462_Ant1
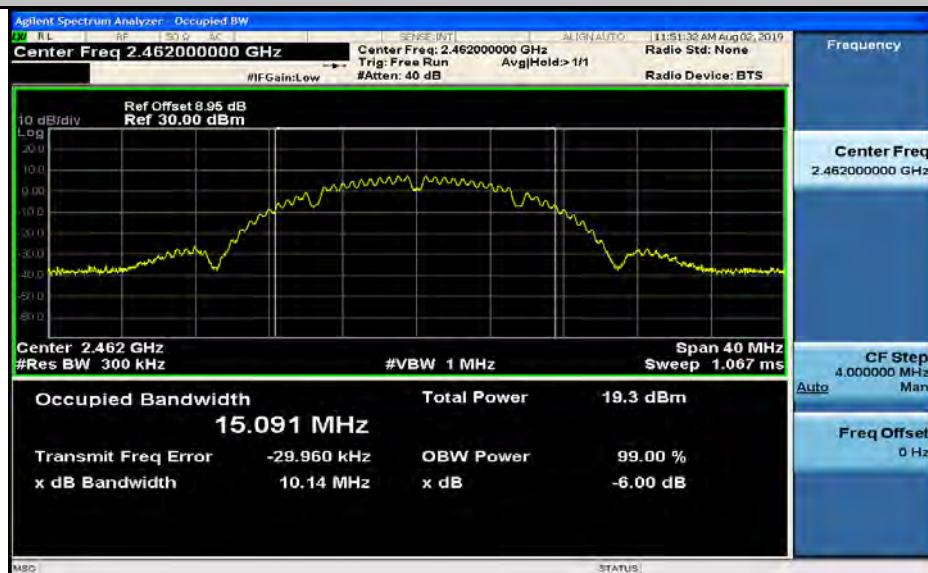
Occupied Bandwidth_11G_2412_Ant1

Occupied Bandwidth_11G_2437_Ant1
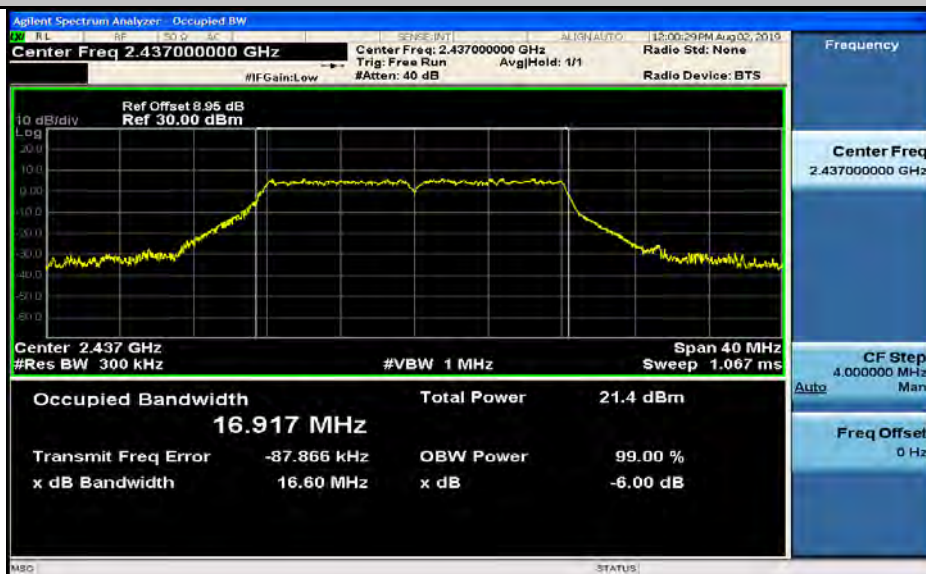
Occupied Bandwidth_11G_2462_Ant1

Occupied Bandwidth_11N20SISO_2412_Ant1
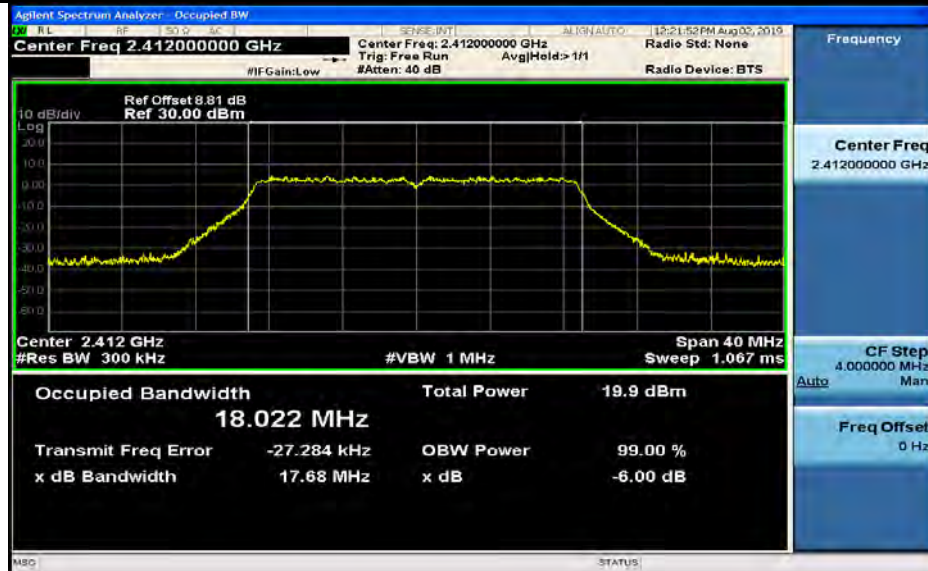
Occupied Bandwidth_11N20SISO_2437_Ant1
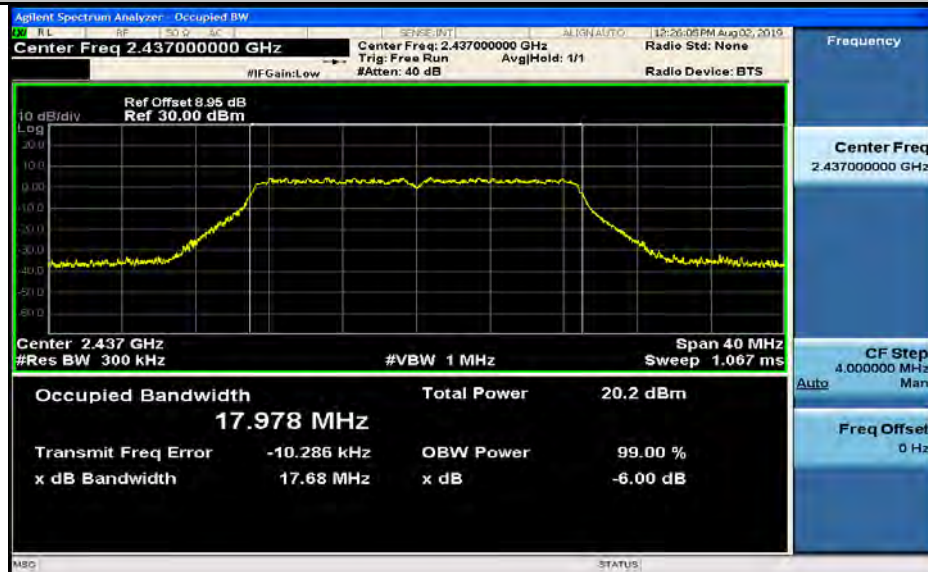
Occupied Bandwidth_11N20SISO_2462_Ant1

Occupied Bandwidth_11N40SISO_2422_Ant1

Center Freq 2.422000000 GHz
Center Freq: 2.422000000 GHz Radio Std: None
Trig: Free Run   Avg|Hold:> 1/1
#IFGain:Low   #Atten: 40 dB   Radio Device: BTS

Ref Offset 8.95 dB
Ref 30.00 dBm
10 dB/div Log

Center 2.422 GHz   Span 80 MHz
#Res BW 1 MHz   #VBW 3 MHz   Sweep 1.067 ms

Occupied Bandwidth	Total Power	19.9 dBm
36.547 MHz		
Transmit Freq Error	72.791 kHz	OBW Power	99.00 %
x dB Bandwidth	36.27 MHz	x dB	-6.00 dB

Frequency
Center Freq 2.422000000 GHz
CF Step 8.000000 MHz Auto Man
Freq Offset 0 Hz

Occupied Bandwidth_11N40SISO_2437_Ant1

Center Freq 2.437000000 GHz
Center Freq: 2.437000000 GHz Radio Std: None
Trig: Free Run   Avg|Hold: 1/1
#IFGain:Low   #Atten: 40 dB   Radio Device: BTS

Ref Offset 8.95 dB
Ref 30.00 dBm
10 dB/div Log

Center 2.437 GHz   Span 80 MHz
#Res BW 1 MHz   #VBW 3 MHz   Sweep 1.067 ms

Occupied Bandwidth	Total Power	20.1 dBm
36.498 MHz		
Transmit Freq Error	85.929 kHz	OBW Power	99.00 %
x dB Bandwidth	36.21 MHz	x dB	-6.00 dB

Frequency
Center Freq 2.437000000 GHz
CF Step 8.000000 MHz Auto Man
Freq Offset 0 Hz

Occupied Bandwidth_11N40SISO_2452_Ant1

Center Freq 2.452000000 GHz
Center Freq: 2.462000000 GHz Radio Std: None
Trig: Free Run   Avg|Hold: 1/1
#IFGain:Low   #Atten: 40 dB   Radio Device: BTS

Ref Offset 8.95 dB
Ref 30.00 dBm
10 dB/div Log

Center 2.452 GHz   Span 80 MHz
#Res BW 1 MHz   #VBW 3 MHz   Sweep 1.067 ms

Occupied Bandwidth	Total Power	20.1 dBm
36.479 MHz		
Transmit Freq Error	37.581 kHz	OBW Power	99.00 %
x dB Bandwidth	36.18 MHz	x dB	-6.00 dB

Frequency
Center Freq 2.462000000 GHz
CF Step 8.000000 MHz Auto Man
Freq Offset 0 Hz

Occupied Bandwidth_11B_2412_Ant2

Occupied Bandwidth_11B_2437_Ant2
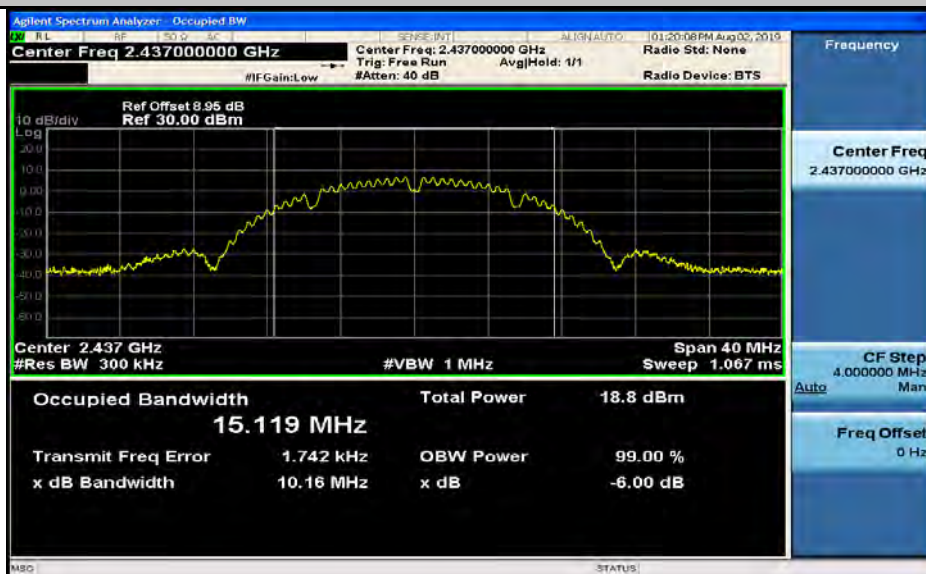
Occupied Bandwidth_11B_2462_Ant2
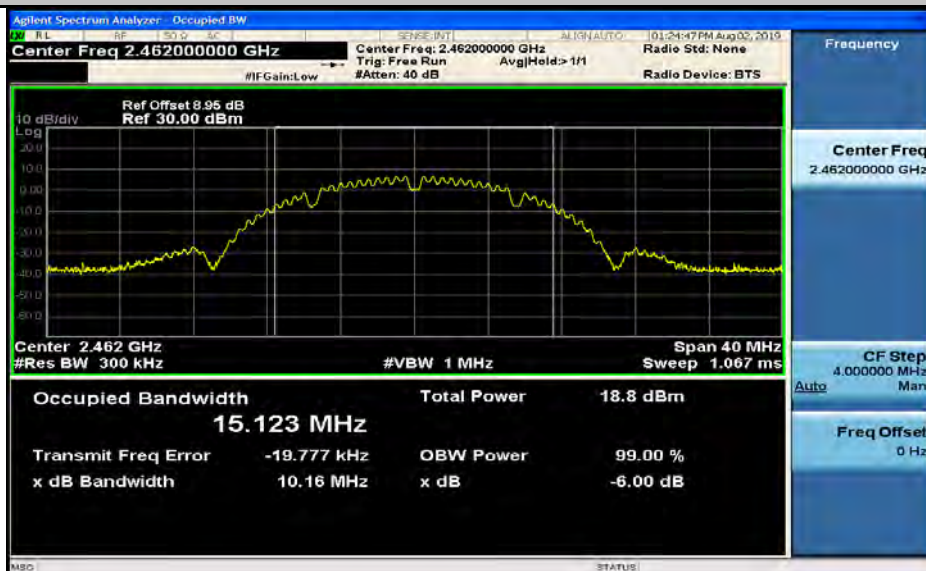
Occupied Bandwidth_11G_2412_Ant2
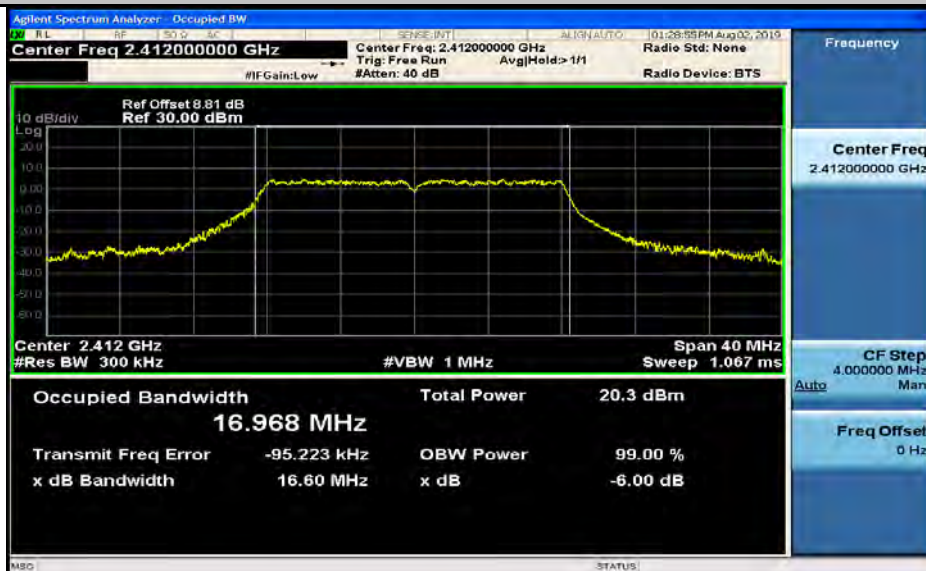
Occupied Bandwidth_11G_2437_Ant2

Occupied Bandwidth_11G_2462_Ant2
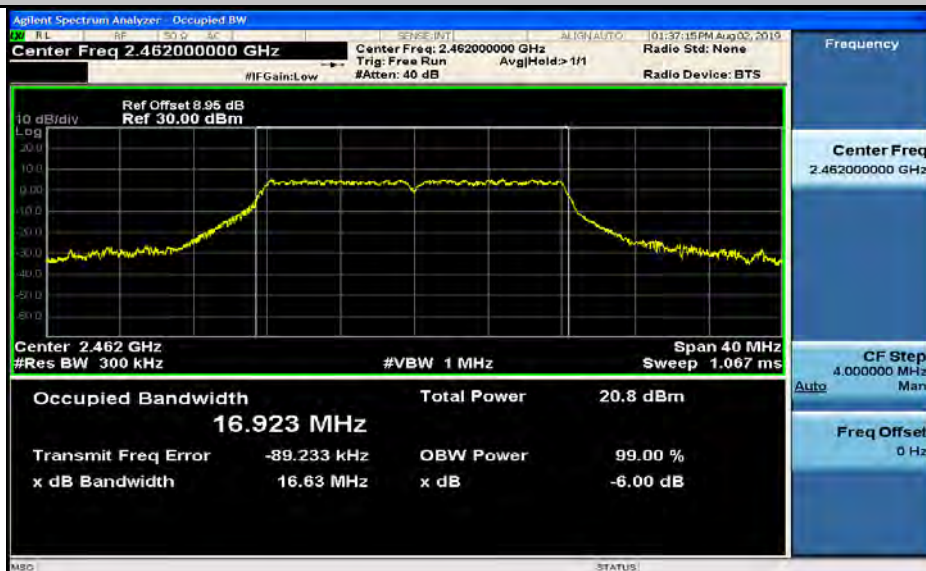
Occupied Bandwidth_11N20SISO_2412_Ant2
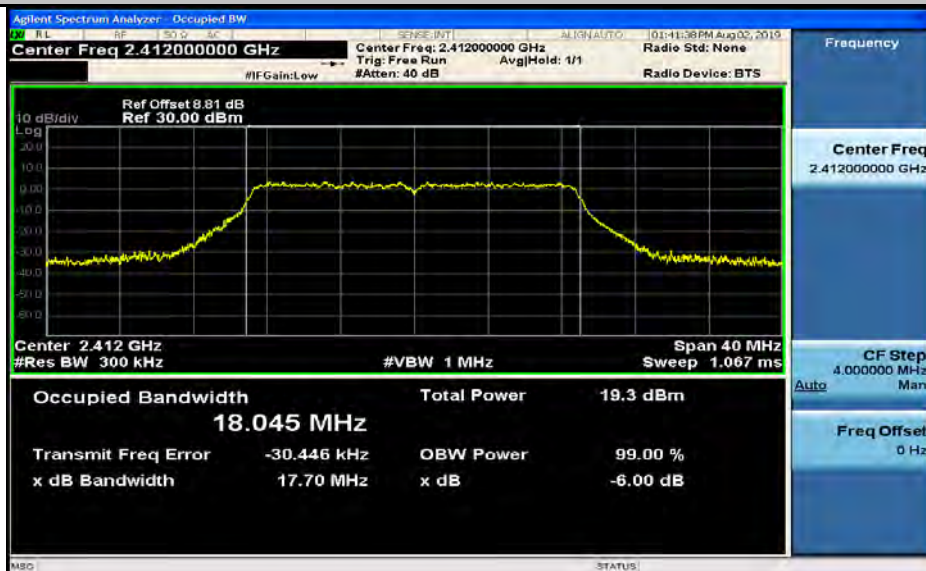
Occupied Bandwidth_11N20SISO_2437_Ant2
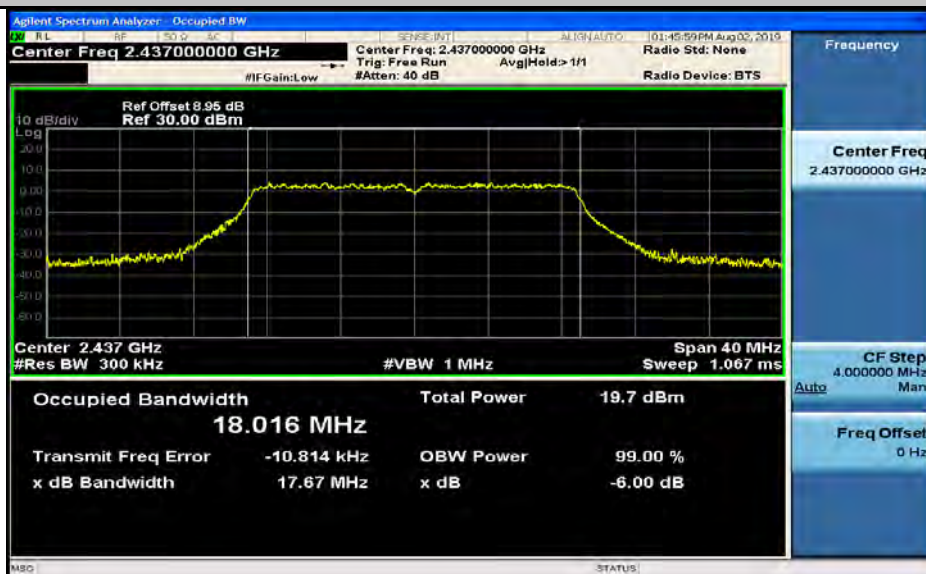
Occupied Bandwidth_11N20SISO_2462_Ant2

Occupied Bandwidth_11N40SISO_2422_Ant2

Occupied Bandwidth_11N40SISO_2437_Ant2
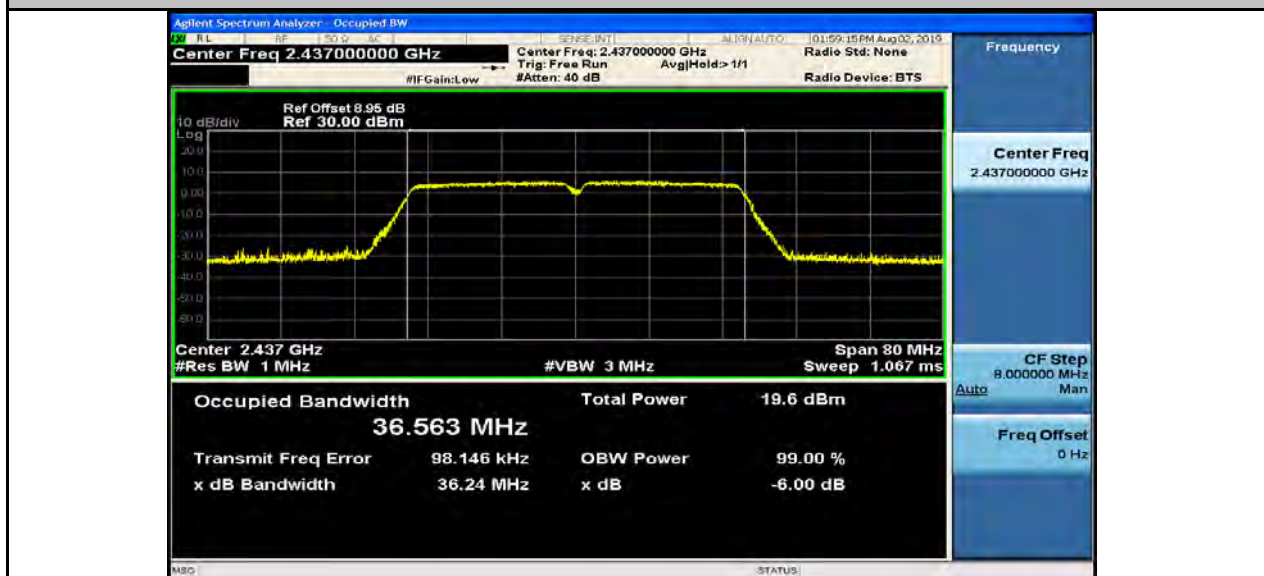
Occupied Bandwidth_11N40SISO_2452_Ant2
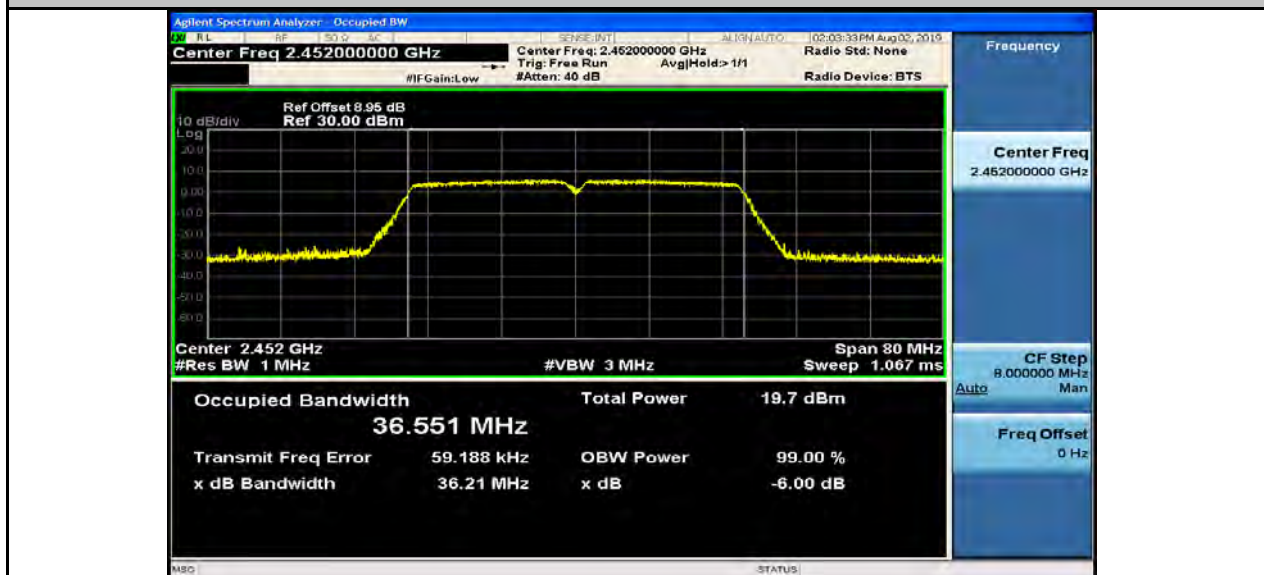
3.Maximum conducted (average) output power

Test Mode	Test Channel	Level [dBm]		10log(1/x) Factor[dB]		Power [dBm]			Limit [dBm]	Verdict
		Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	MIMO		
11B	2412	15.37	14.63	0.00	0.00	15.37	14.63	NA	30	PASS
11B	2437	15.74	15.02	0.00	0.00	15.74	15.02	NA	30	PASS
11B	2462	15.6	15.07	0.00	0.00	15.6	15.07	NA	30	PASS
11G	2412	14.67	14.03	0.00	0.00	14.67	14.03	NA	30	PASS
11G	2437	15.06	14.4	0.00	0.00	15.06	14.4	NA	30	PASS
11G	2462	14.95	14.48	0.00	0.00	14.95	14.48	NA	30	PASS
11N20MIMO	2412	13.6	13.05	0.00	0.00	13.6	13.05	16.34	30	PASS
11N20MIMO	2437	13.97	13.47	0.00	0.00	13.97	13.47	16.74	30	PASS
11N20MIMO	2462	13.92	13.57	0.00	0.00	13.92	13.57	16.76	30	PASS
11N40MIMO	2422	12.71	12.19	0.00	0.00	12.71	12.19	15.47	30	PASS
11N40MIMO	2437	12.88	12.37	0.00	0.00	12.88	12.37	15.64	30	PASS
11N40MIMO	2452	12.89	12.48	0.00	0.00	12.89	12.48	15.70	30	PASS

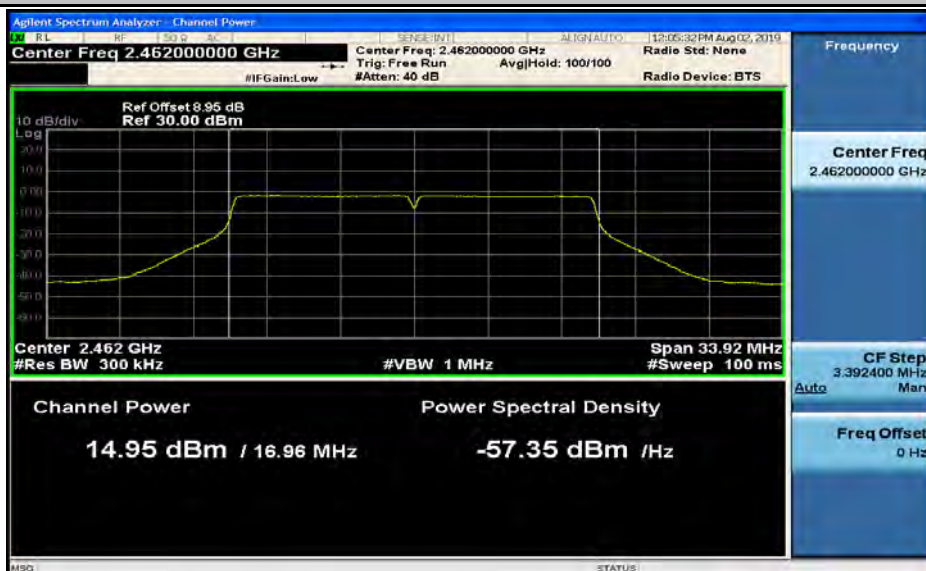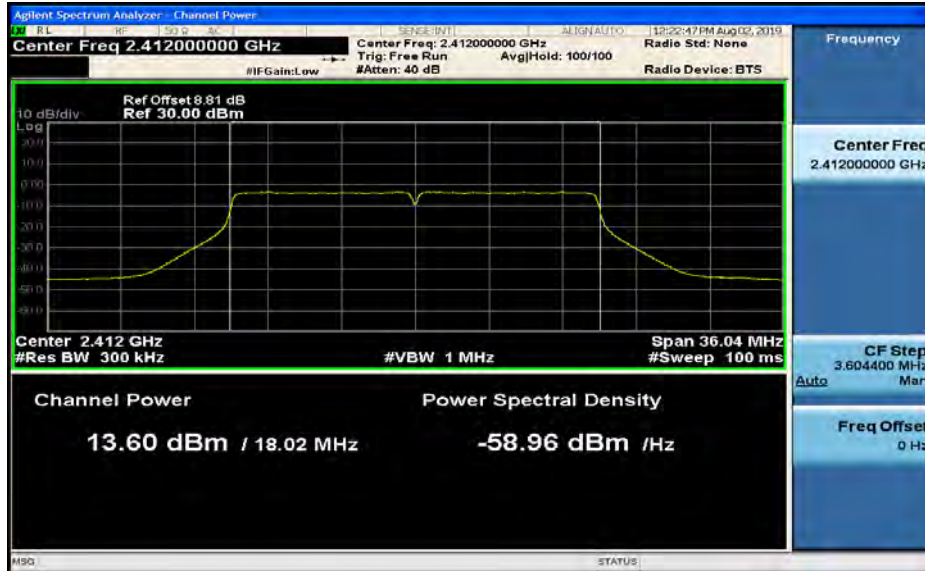| Maximum conducted (average) output power_11B_2412_Ant1 |
|---|
| |
| Maximum conducted (average) output power_11B_2437_Ant1 |
| |
| Maximum conducted (average) output power_11B_2462_Ant1 |
| |

Maximum conducted (average) output power_11G_2412_Ant1
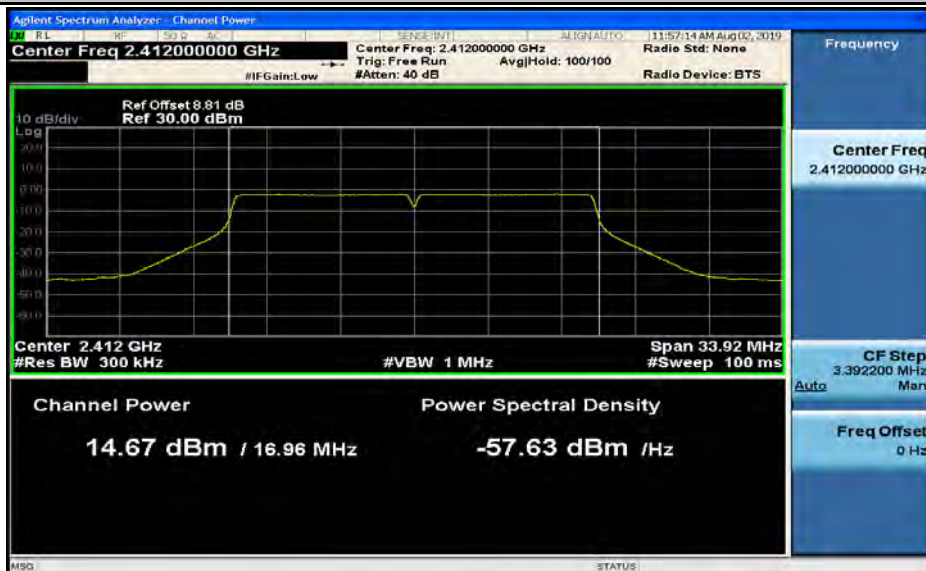
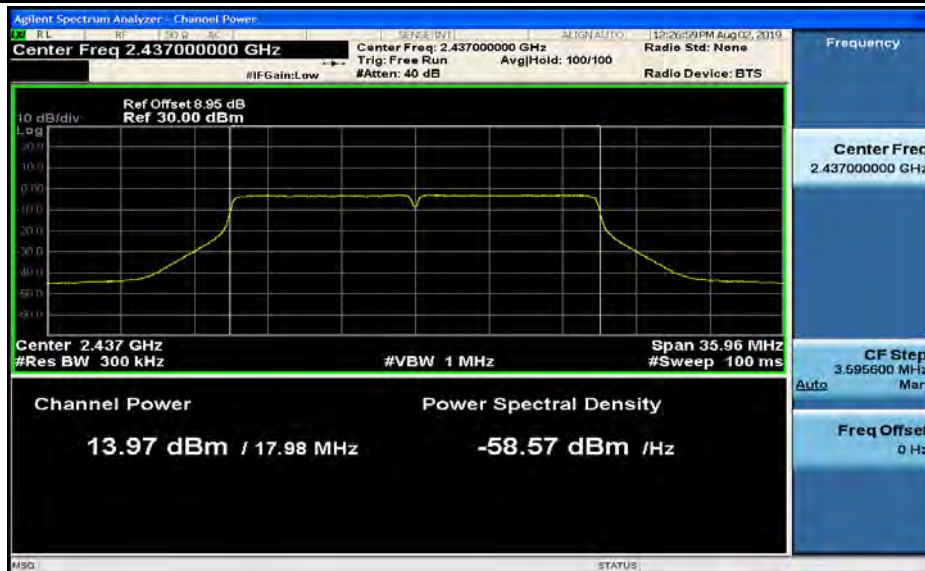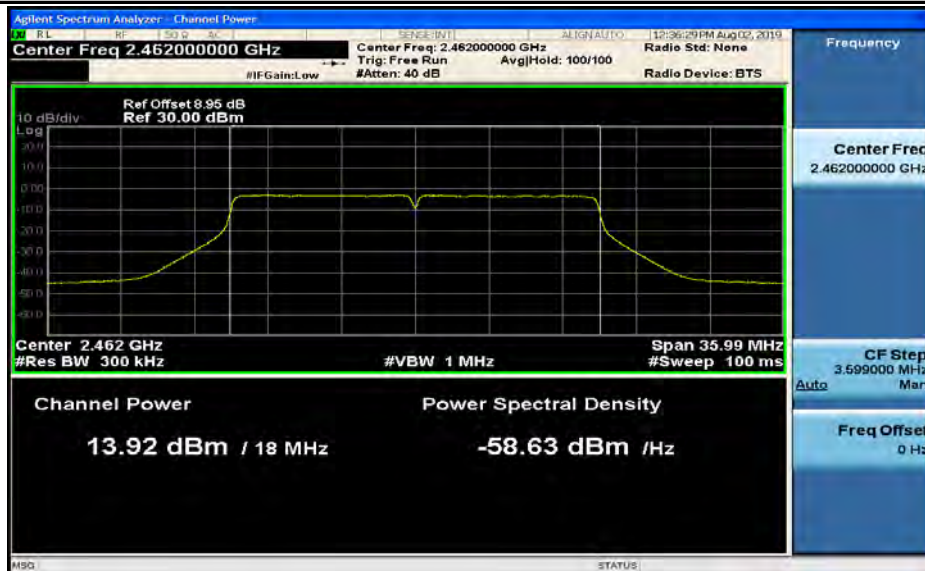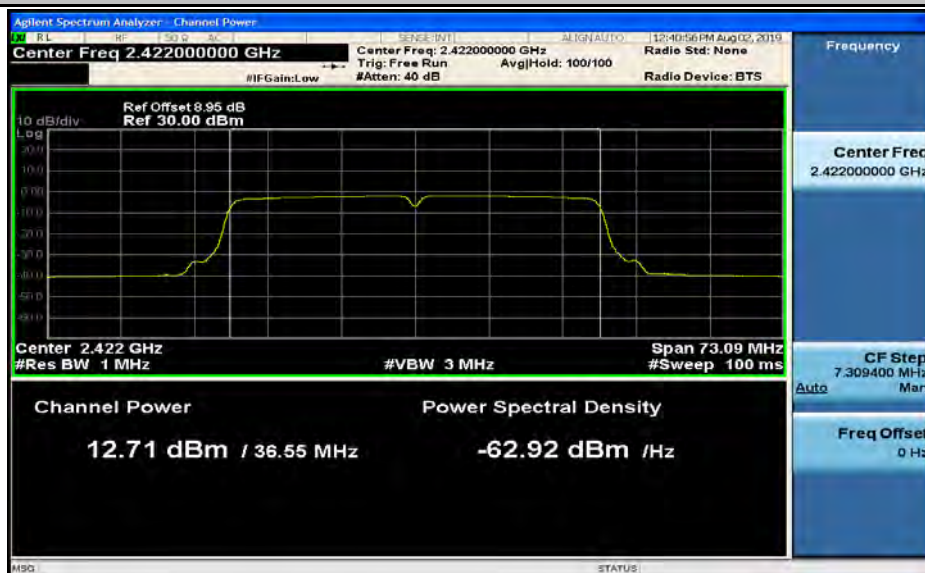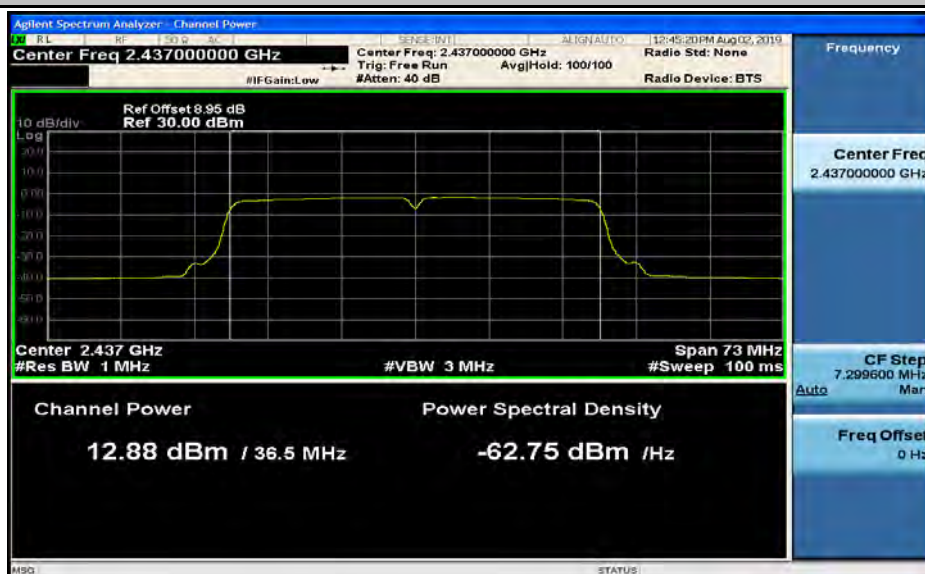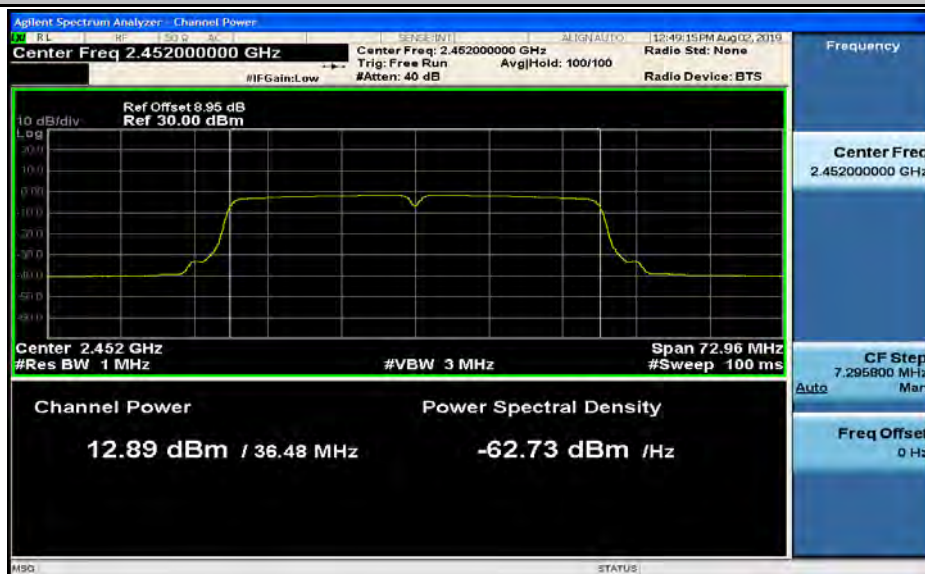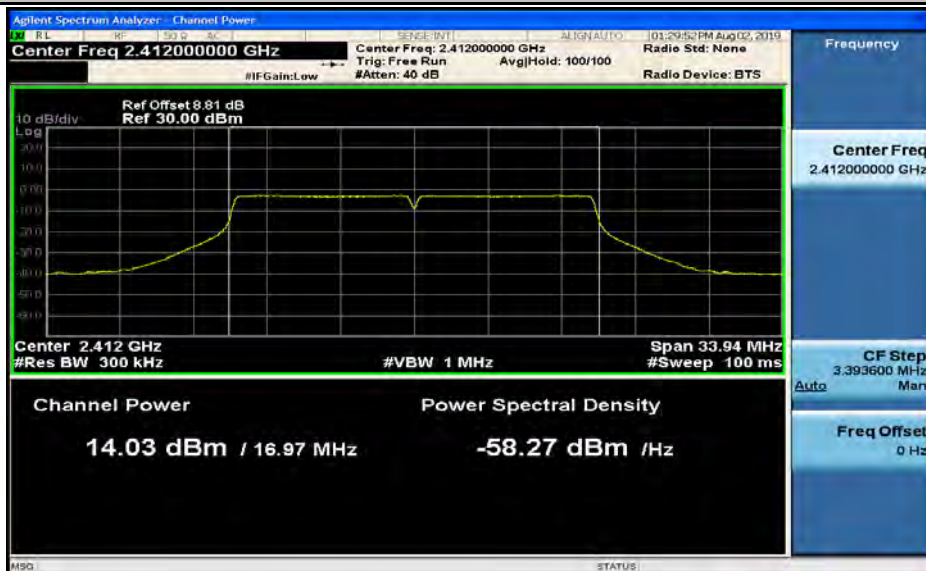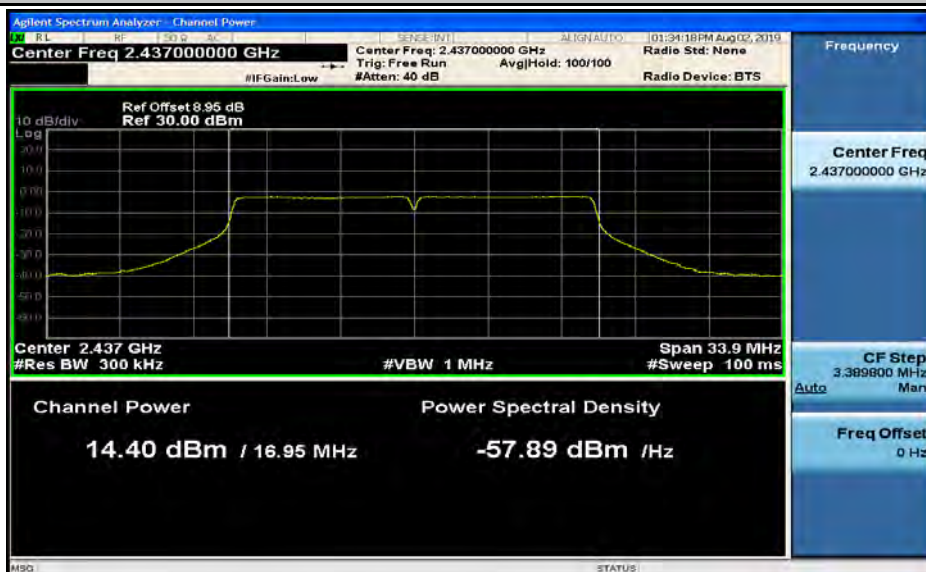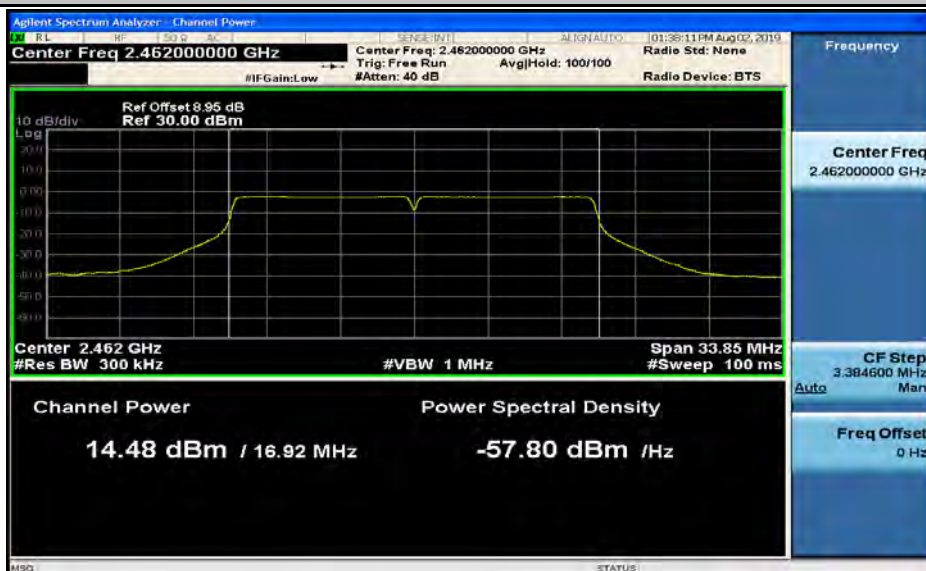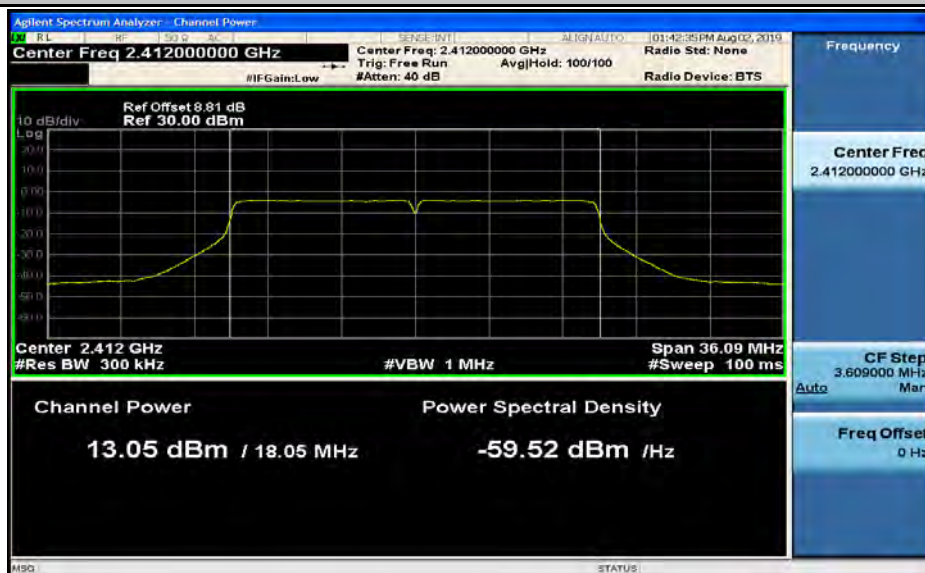| Maximum conducted (average) output power_11G_2437_Ant1 |
|---|
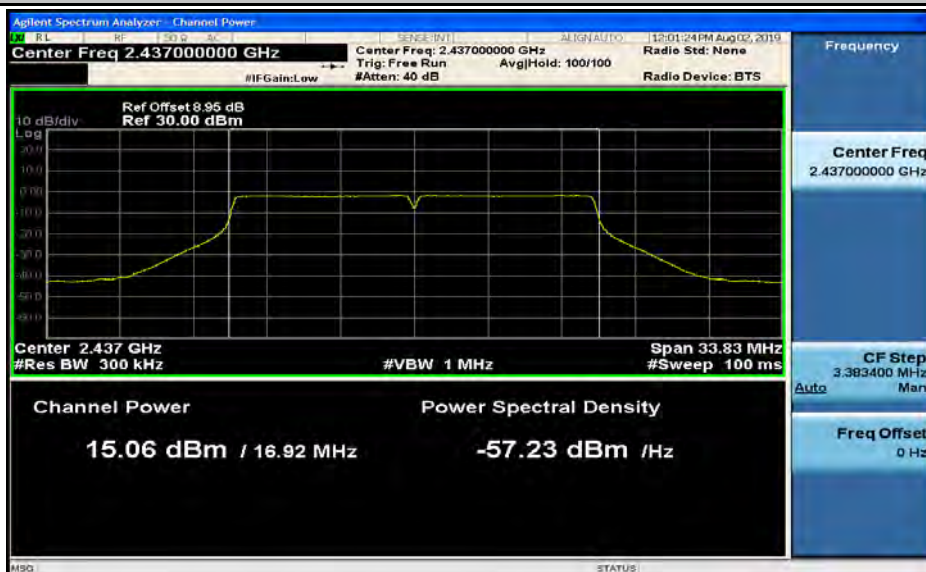
Maximum conducted (average) output power_11G_2462_Ant1

Maximum conducted (average) output power_11N20MIMO_2412_Ant1

Maximum conducted (average) output power_11N20MIMO_2437_Ant1

Maximum conducted (average) output power_11N20MIMO_2462_Ant1

Maximum conducted (average) output power_11N40MIMO_2422_Ant1

Maximum conducted (average) output power_11N40MIMO_2437_Ant1

Maximum conducted (average) output power_11N40MIMO_2452_Ant1

Maximum conducted (average) output power_11B_2412_Ant2

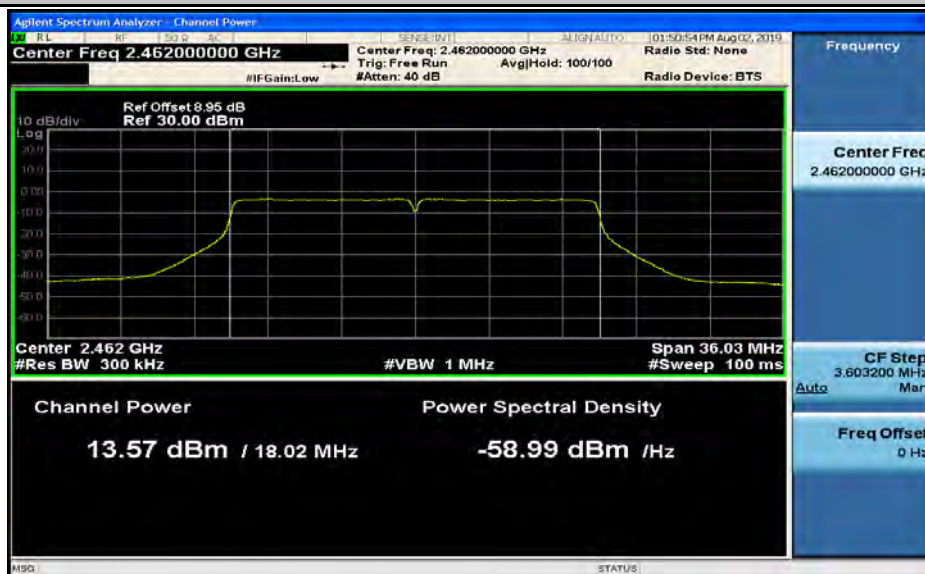| Maximum conducted (average) output power_11B_2437_Ant2 |
|---|

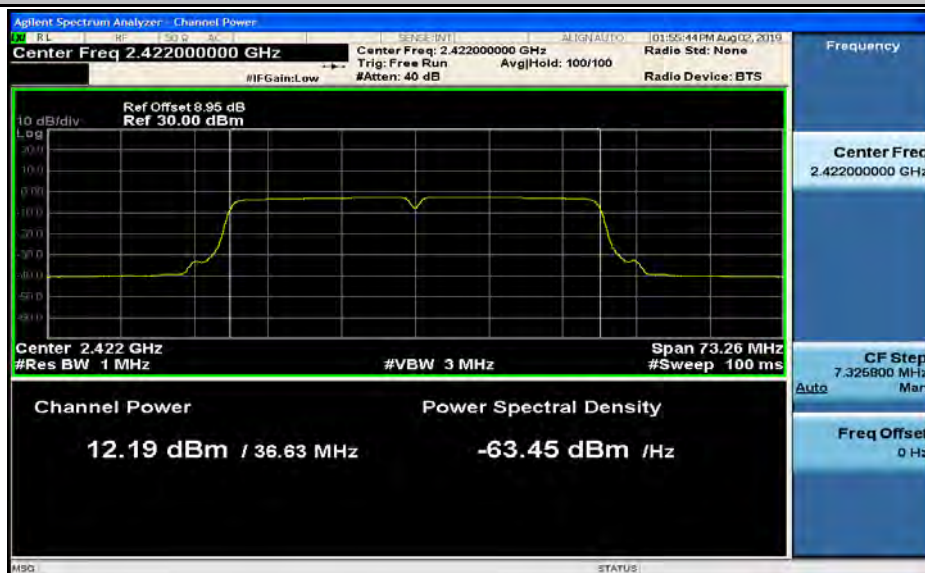| Maximum conducted (average) output power_11B_2462_Ant2 |
|---|

Maximum conducted (average) output power_11G_2412_Ant2

Maximum conducted (average) output power_11G_2437_Ant2

Maximum conducted (average) output power_11G_2462_Ant2

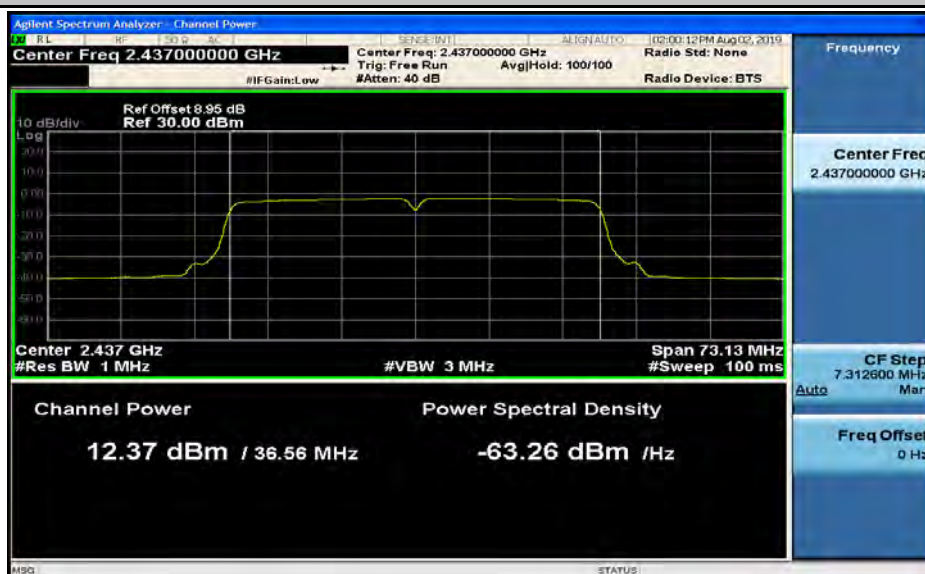| Maximum conducted (average) output power_11N20MIMO_2412_Ant2 |
|---|

Maximum conducted (average) output power_11N20MIMO_2437_Ant2
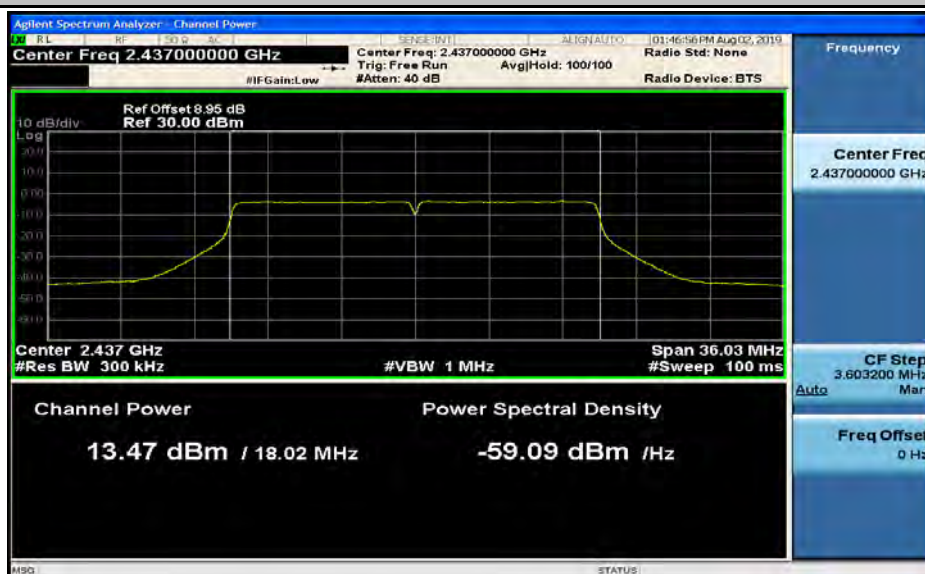
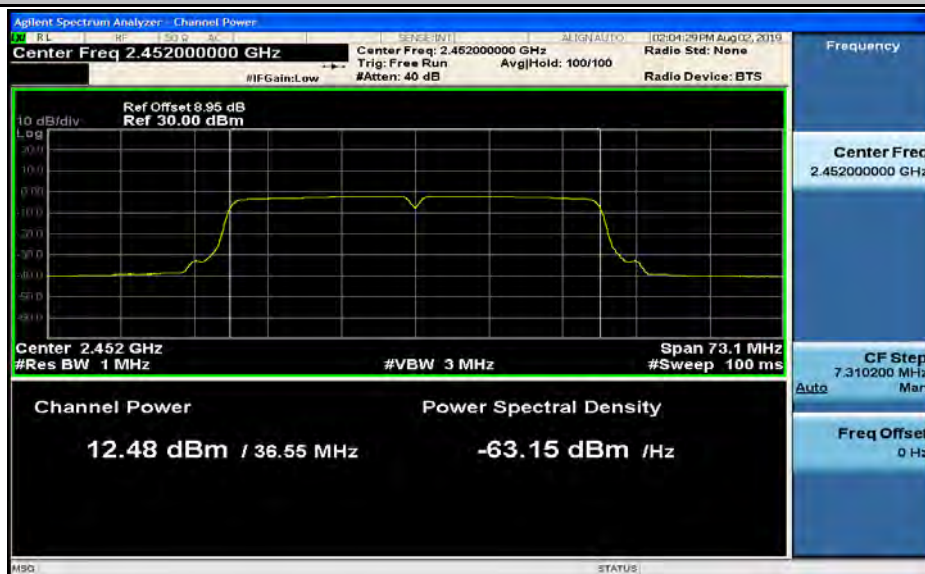| Maximum conducted (average) output power_11N20MIMO_2462_Ant2 |
|---|

Maximum conducted (average) output power_11N40MIMO_2422_Ant2
Maximum conducted (average) output power_11N40MIMO_2437_Ant2
Maximum conducted (average) output power_11N40MIMO_2452_Ant2

4.Maximum(average) power spectral density

Test Mode	Test Channel	Level [dBm/3kHz]		10log(1/x) Factor[dB]		PSD[dBm/3kHz]			Limit[dBm/3kHz]	Verdict
		Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	MIMO		
11B	2412	-17.42	-18.18	0.00	0.00	-17.42	-18.18	NA	8.00	PASS
11B	2437	-16.98	-17.74	0.00	0.00	-16.98	-17.74	NA	8.00	PASS
11B	2462	-17.12	-17.72	0.00	0.00	-17.12	-17.72	NA	8.00	PASS
11G	2412	-19.94	-20.60	0.00	0.00	-19.94	-20.60	NA	8.00	PASS
11G	2437	-19.57	-20.13	0.00	0.00	-19.57	-20.13	NA	8.00	PASS
11G	2462	-19.61	-20.13	0.00	0.00	-19.61	-20.13	NA	8.00	PASS
11N20MIMO	2412	-21.42	-22.05	0.00	0.00	-21.42	-22.05	-18.71	8.00	PASS
11N20MIMO	2437	-21.12	-21.45	0.00	0.00	-21.12	-21.45	-18.27	8.00	PASS
11N20MIMO	2462	-21.05	-21.45	0.00	0.00	-21.05	-21.45	-18.24	8.00	PASS
11N40MIMO	2422	-25.48	-26.19	0.00	0.00	-25.48	-26.19	-22.81	8.00	PASS
11N40MIMO	2437	-25.31	-25.88	0.00	0.00	-25.31	-25.88	-22.58	8.00	PASS
11N40MIMO	2452	-25.31	-25.72	0.00	0.00	-25.31	-25.72	-22.50	8.00	PASS

Maximum(average) power spectral density_11B_2412_Ant1

Maximum(average) power spectral density_11B_2437_Ant1

Maximum(average) power spectral density_11B_2462_Ant1

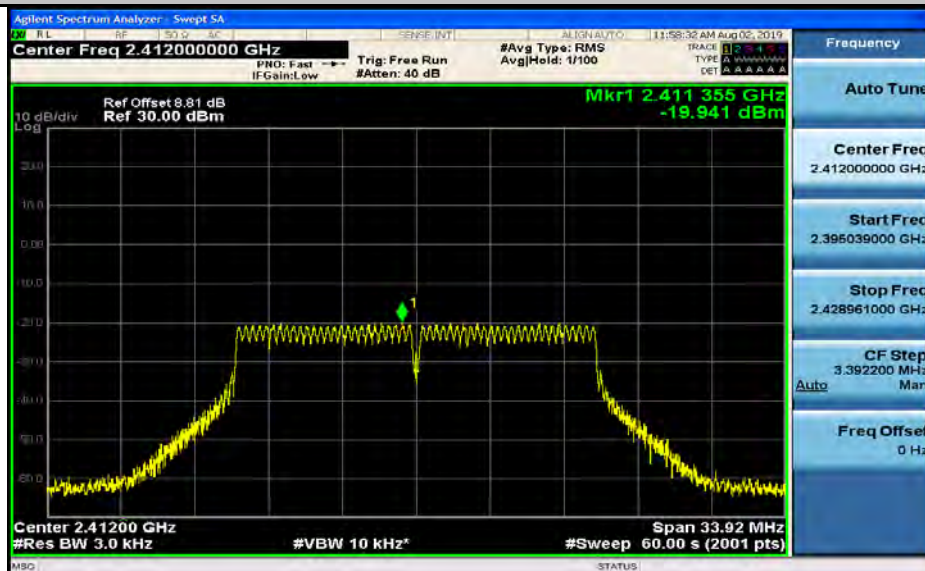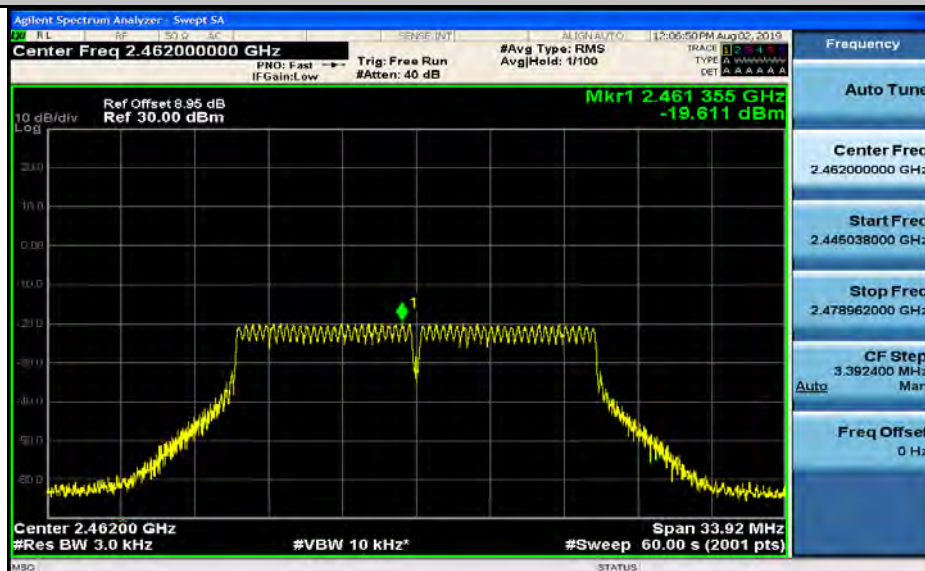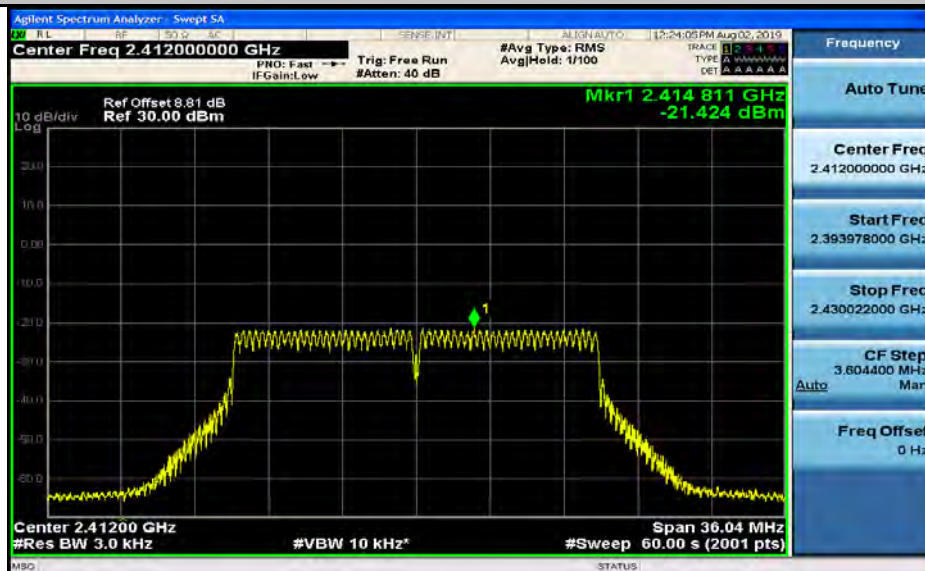| Maximum(average) power spectral density_11G_2412_Ant1 |
|---|

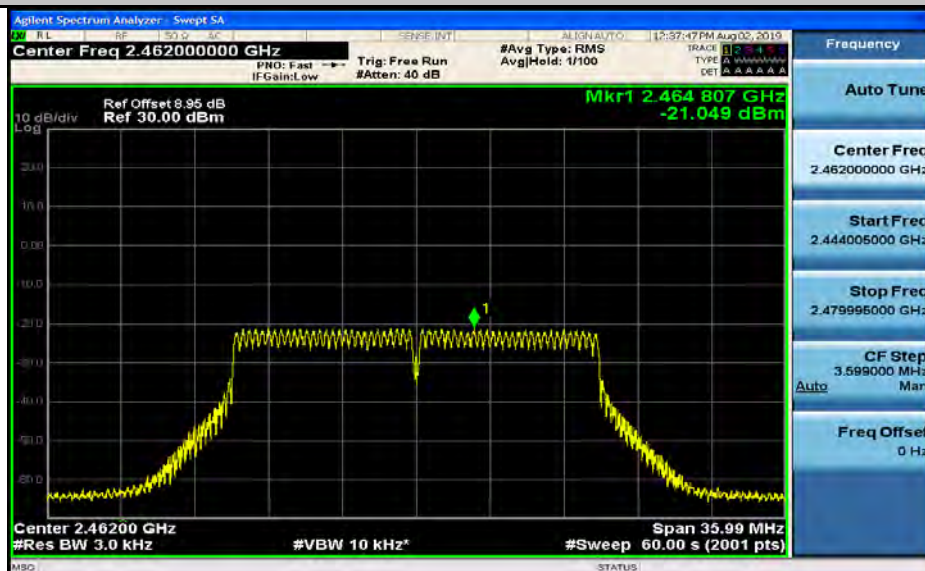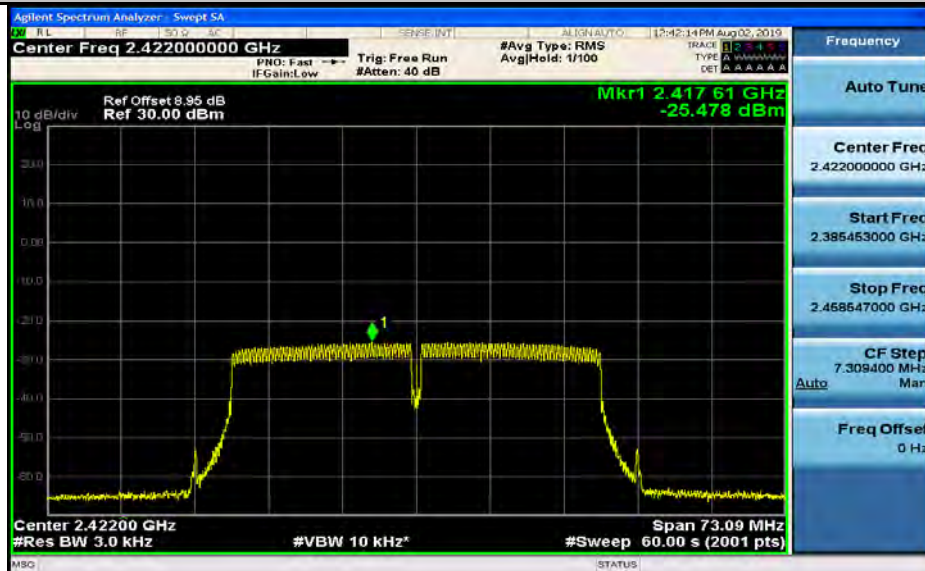| Maximum(average) power spectral density_11G_2437_Ant1 |
|---|
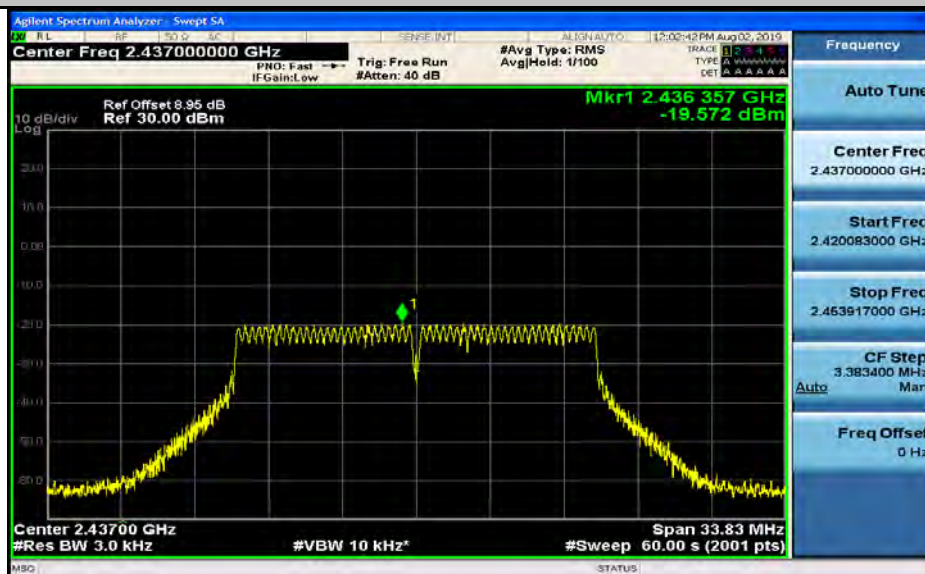
Maximum(average) power spectral density_11G_2462_Ant1

Maximum(average) power spectral density_11N20MIMO_2412_Ant1

Maximum(average) power spectral density_11N20MIMO_2437_Ant1
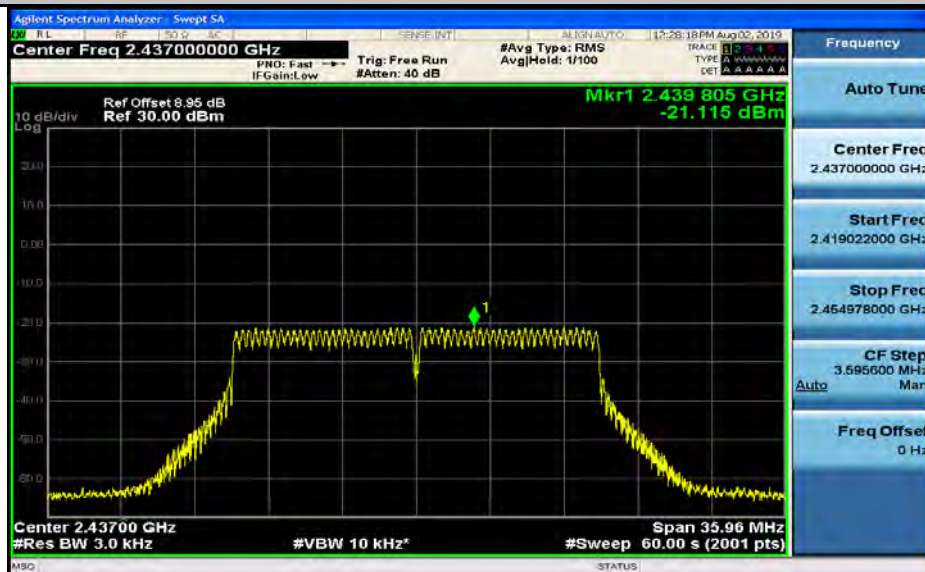
Maximum(average) power spectral density_11N20MIMO_2462_Ant1

Maximum(average) power spectral density_11N40MIMO_2422_Ant1

Maximum(average) power spectral density_11N40MIMO_2437_Ant1

Maximum(average) power spectral density_11N40MIMO_2452_Ant1

Maximum(average) power spectral density_11B_2412_Ant2

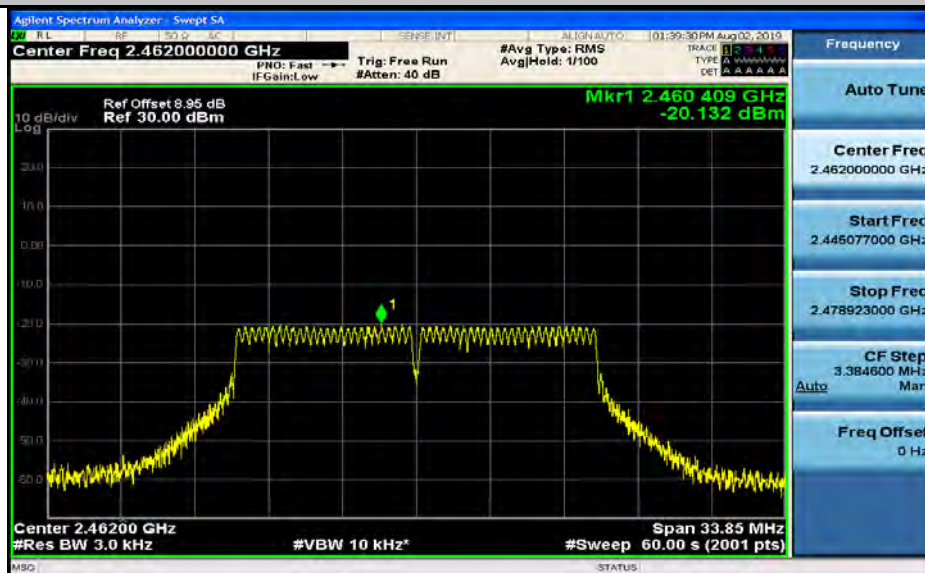| Maximum(average) power spectral density_11B_2437_Ant2 |
|---|

Maximum(average) power spectral density_11B_2462_Ant2

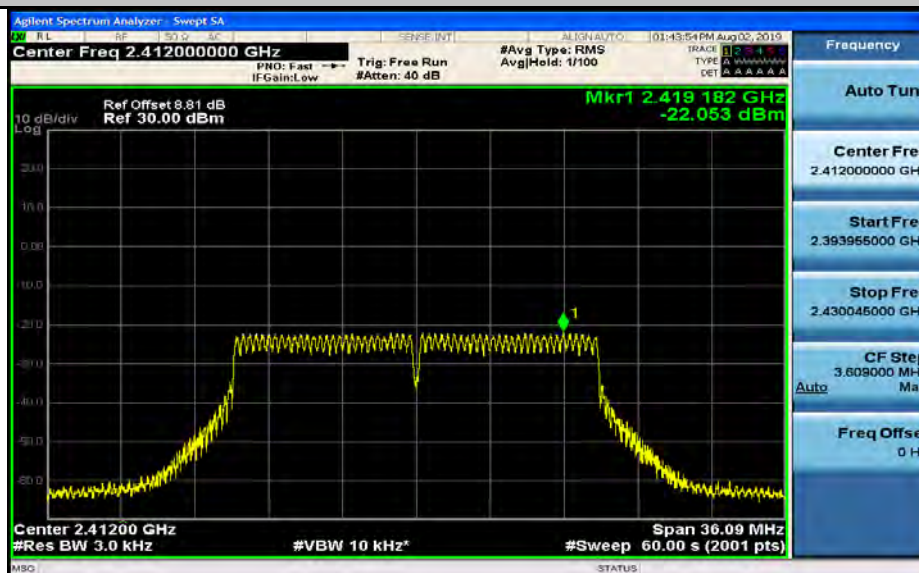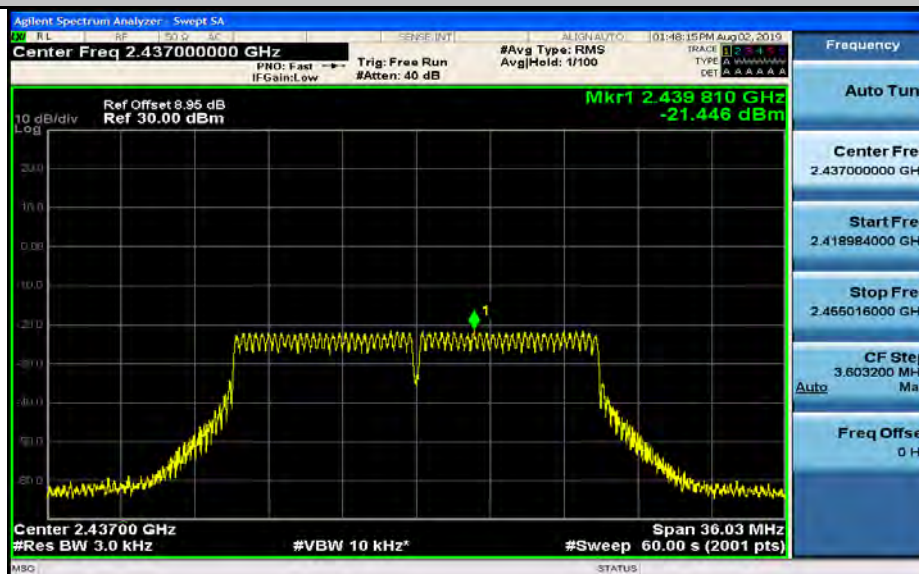| Maximum(average) power spectral density_11G_2412_Ant2 |
|---|

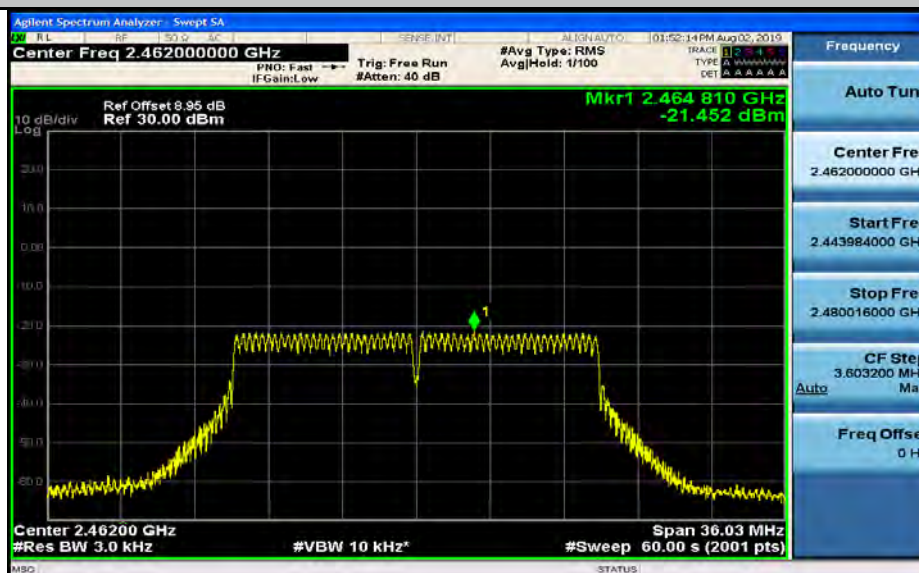| Maximum(average) power spectral density_11G_2437_Ant2 |
|---|
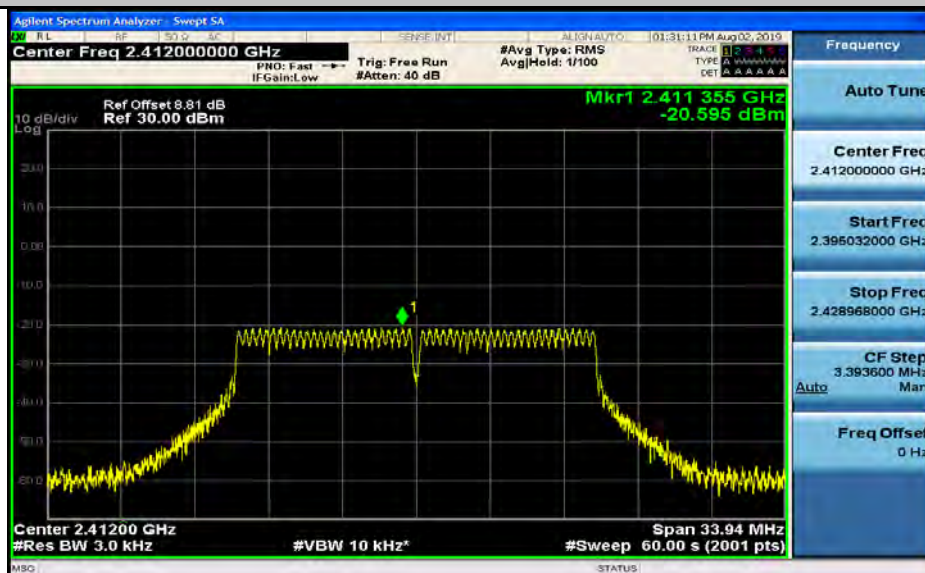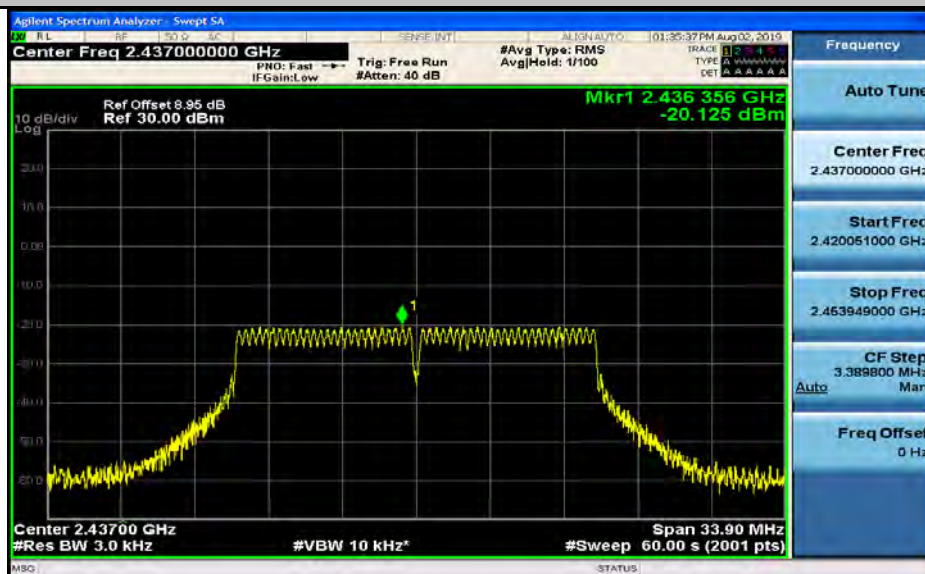
Maximum(average) power spectral density_11G_2462_Ant2

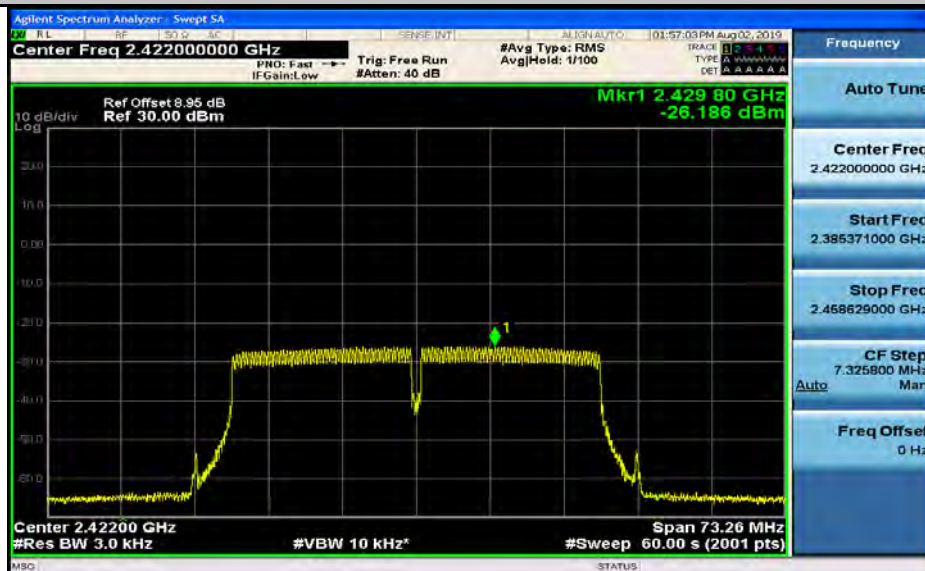| Maximum(average) power spectral density_11N20MIMO_2412_Ant2 |
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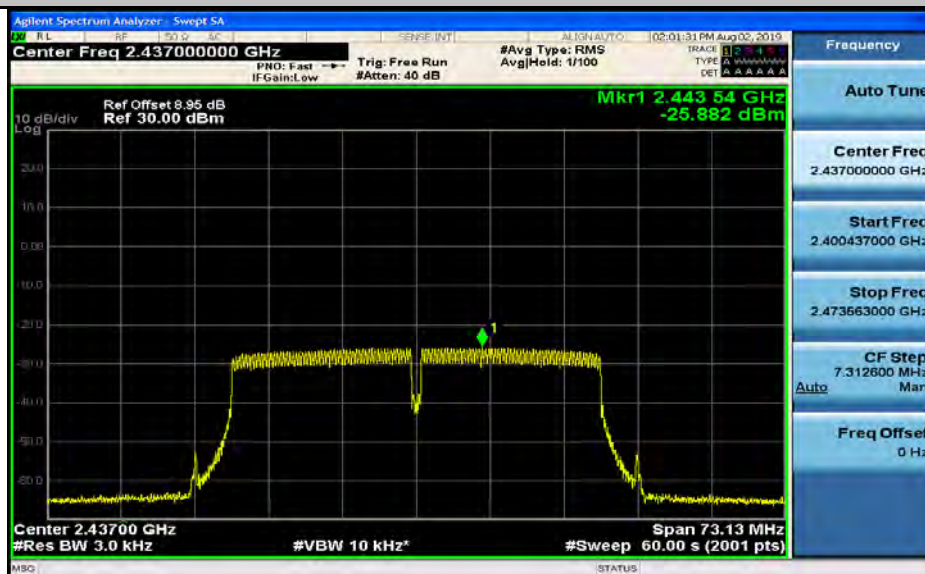| Maximum(average) power spectral density_11N20MIMO_2437_Ant2 |
|---|

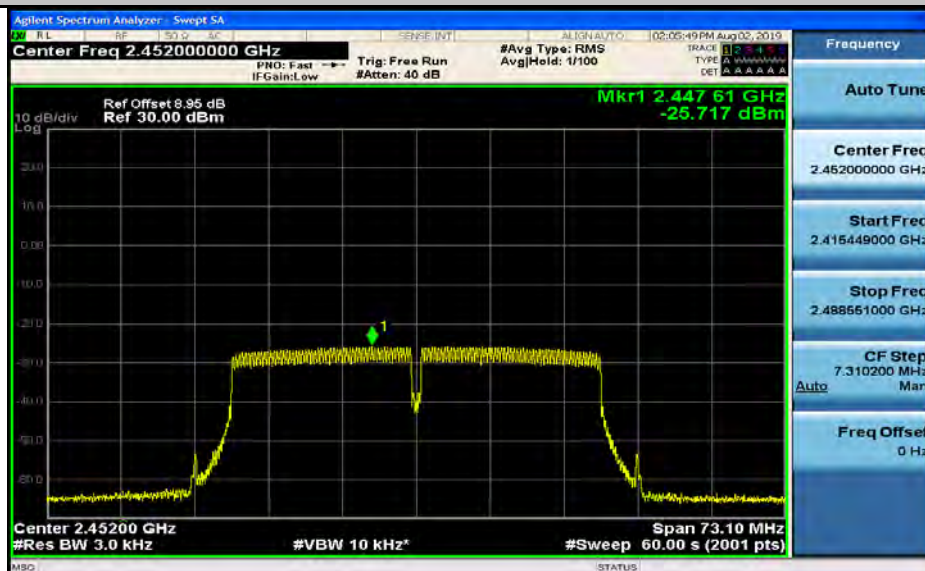| Maximum(average) power spectral density_11N20MIMO_2462_Ant2 |
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Maximum(average) power spectral density_11N40MIMO_2422_Ant2

Maximum(average) power spectral density_11N40MIMO_2437_Ant2

| Maximum(average) power spectral density_11N40MIMO_2452_Ant2 |
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5.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Carrier Power[dBm]		Max. Spurious Level [dBm]		Limit [dBm]		Verdict
		Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11B	2412	5.59	4.80	-29.41	-30.19	-24.41	-25.20	PASS
11B	2462	5.84	5.34	-53.38	-52.12	-24.16	-24.66	PASS
11G	2412	0.16	-0.32	-31.87	-31.01	-29.84	-30.32	PASS
11G	2462	0.49	-0.05	-43.66	-41.05	-29.51	-30.05	PASS
11N20SISO	2412	-0.43	-0.99	-32.74	-33.03	-30.43	-30.99	PASS
11N20SISO	2462	0.10	-0.37	-45.86	-43.93	-29.90	-30.37	PASS
11N40SISO	2422	-4.48	-5.00	-37.44	-36.88	-34.48	-35.00	PASS
11N40SISO	2452	-4.09	-4.71	-43.52	-45.20	-34.09	-34.71	PASS

Band-edge for RF Conducted Emissions_11B_2412_Ant1

Band-edge for RF Conducted Emissions_11B_2462_Ant1
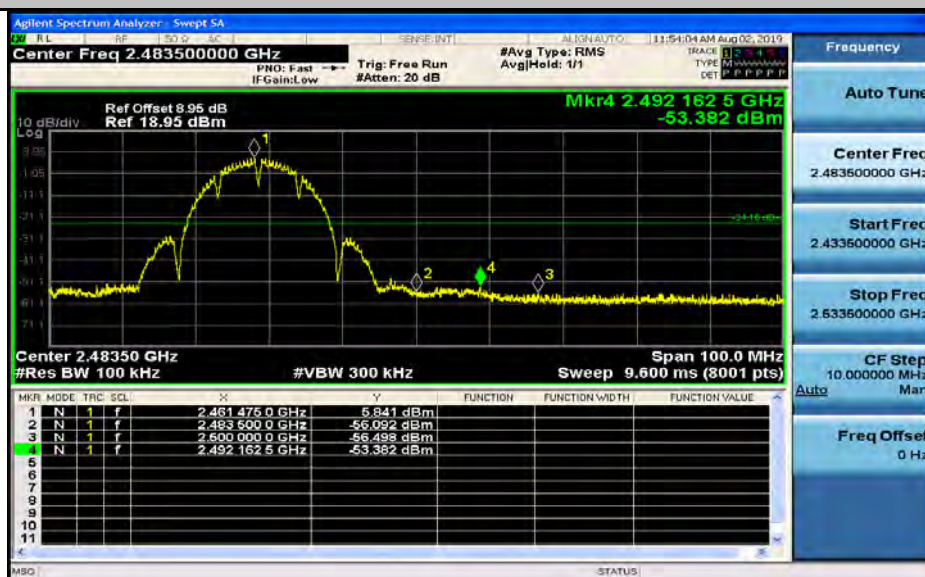
Band-edge for RF Conducted Emissions_11G_2412_Ant1
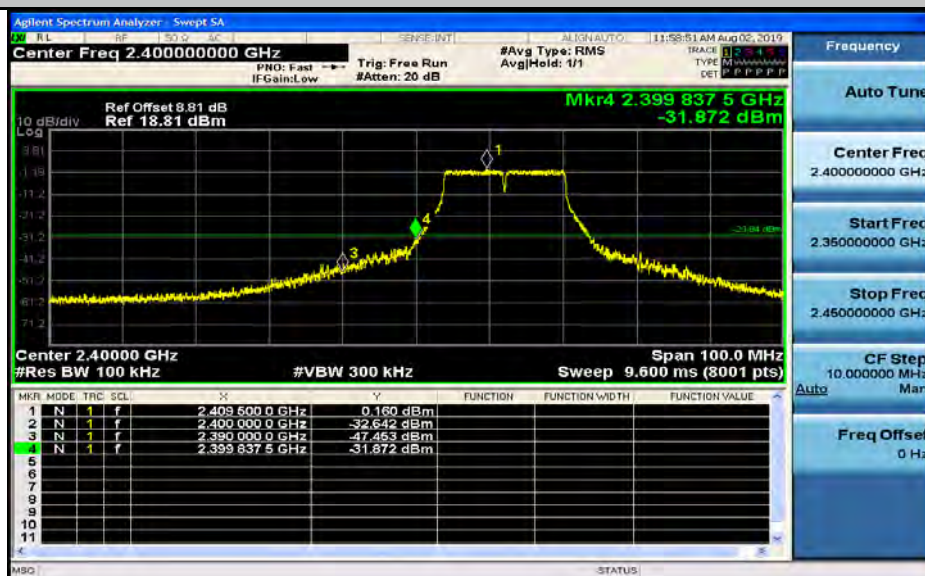
Band-edge for RF Conducted Emissions_11G_2462_Ant1
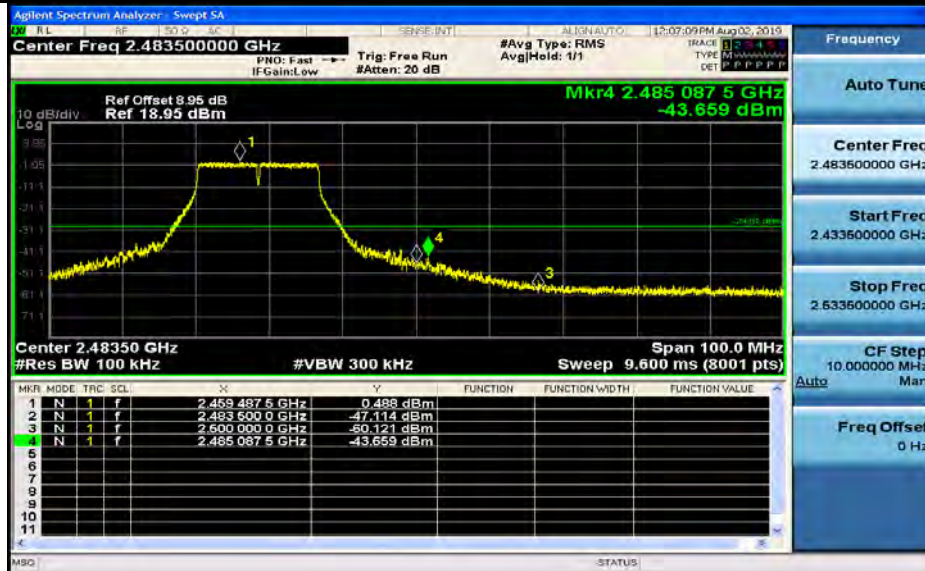
Band-edge for RF Conducted Emissions_11N20SISO_2412_Ant1
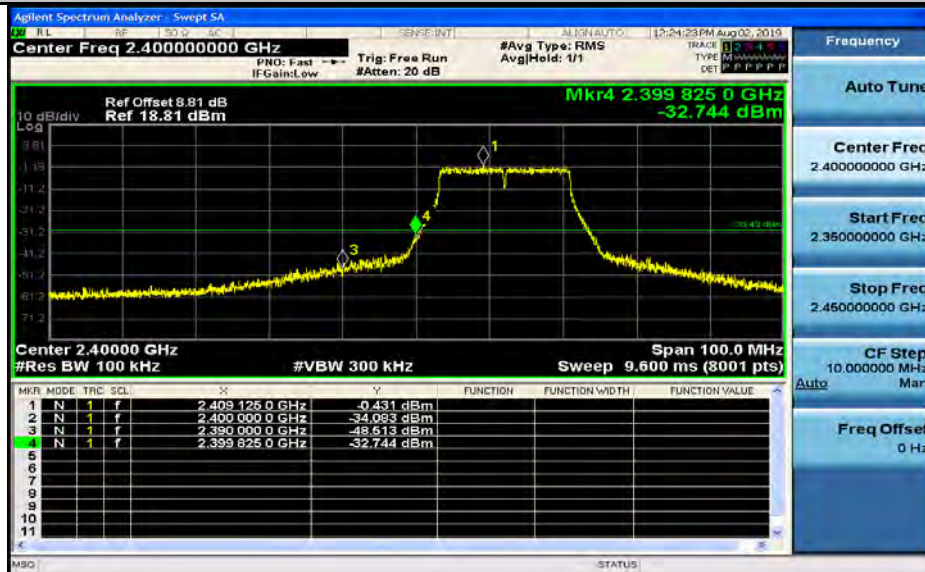
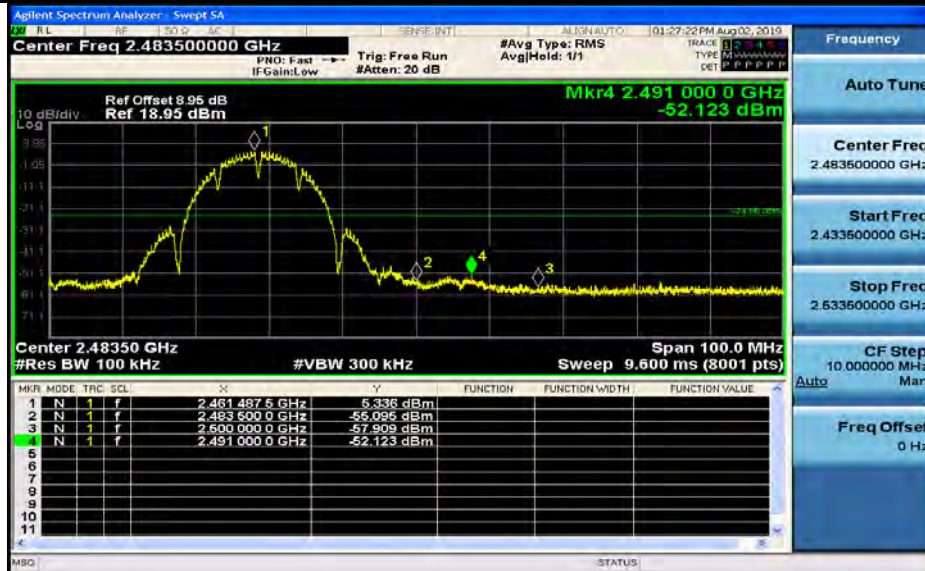| Band-edge for RF Conducted Emissions_11N20SISO_2462_Ant1 |
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Band-edge for RF Conducted Emissions_11N40SISO_2422_Ant1

Band-edge for RF Conducted Emissions_11N40SISO_2452_Ant1

Band-edge for RF Conducted Emissions_11B_2412_Ant2

Band-edge for RF Conducted Emissions_11B_2462_Ant2

Band-edge for RF Conducted Emissions_11G_2412_Ant2
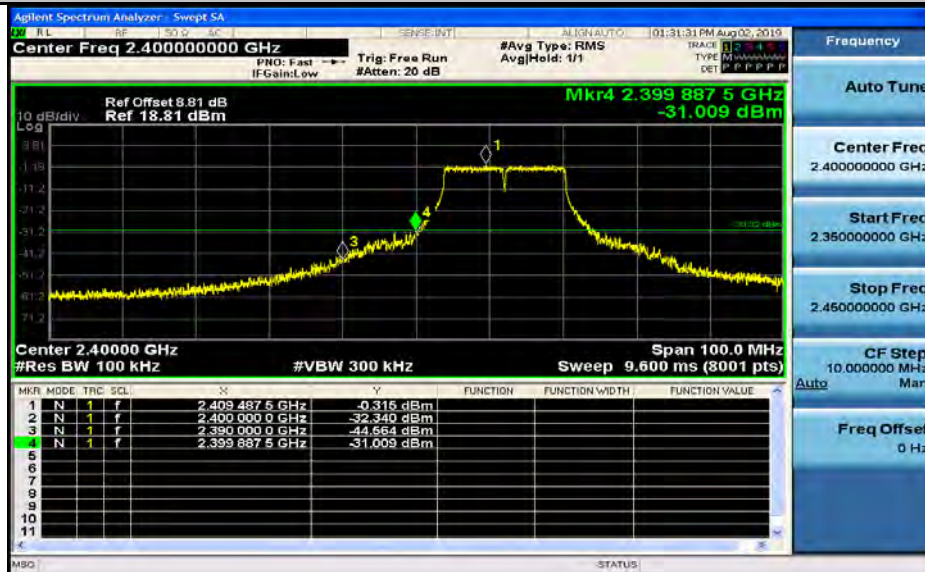
Band-edge for RF Conducted Emissions_11G_2462_Ant2

Band-edge for RF Conducted Emissions_11N20SISO_2412_Ant2
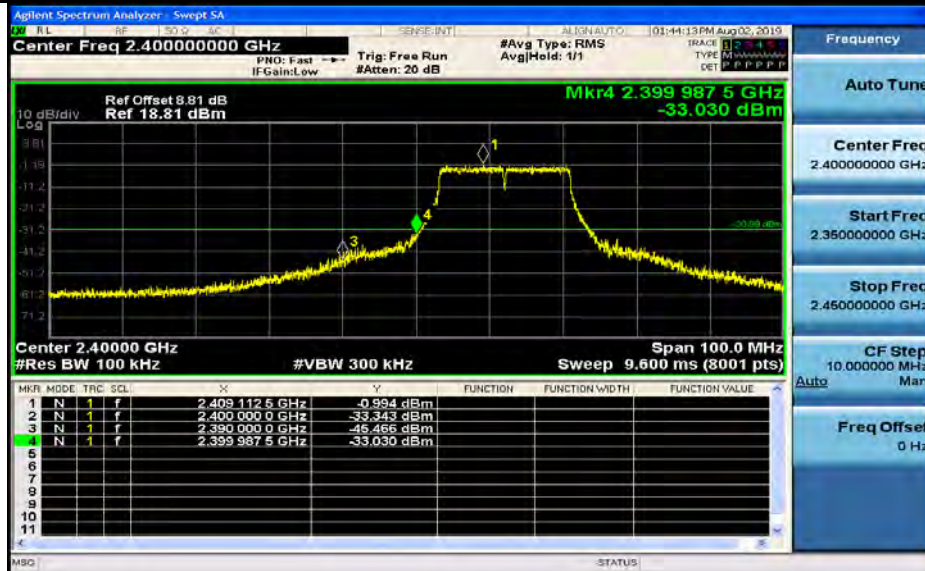
Band-edge for RF Conducted Emissions_11N20SISO_2462_Ant2
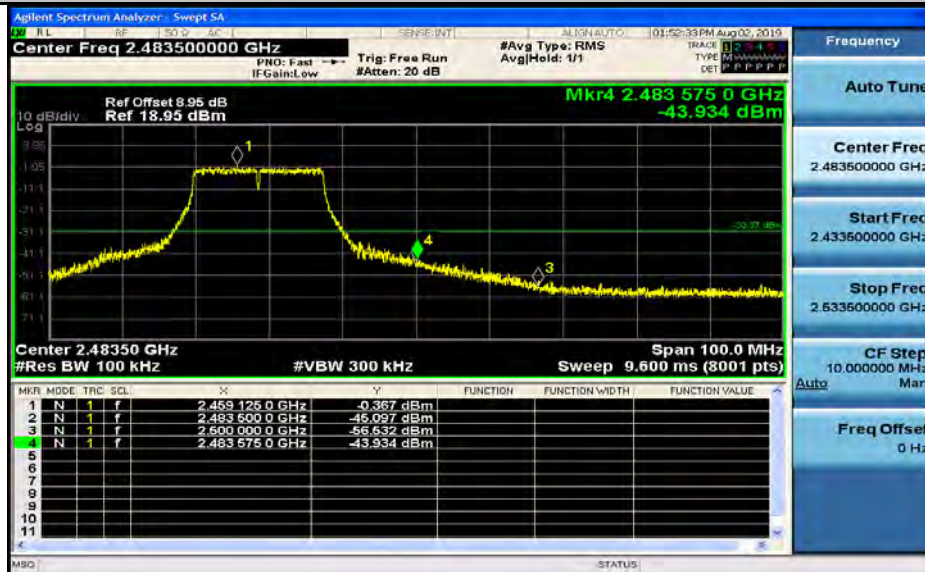
Band-edge for RF Conducted Emissions_11N40SISO_2422_Ant2

Band-edge for RF Conducted Emissions_11N40SISO_2452_Ant2