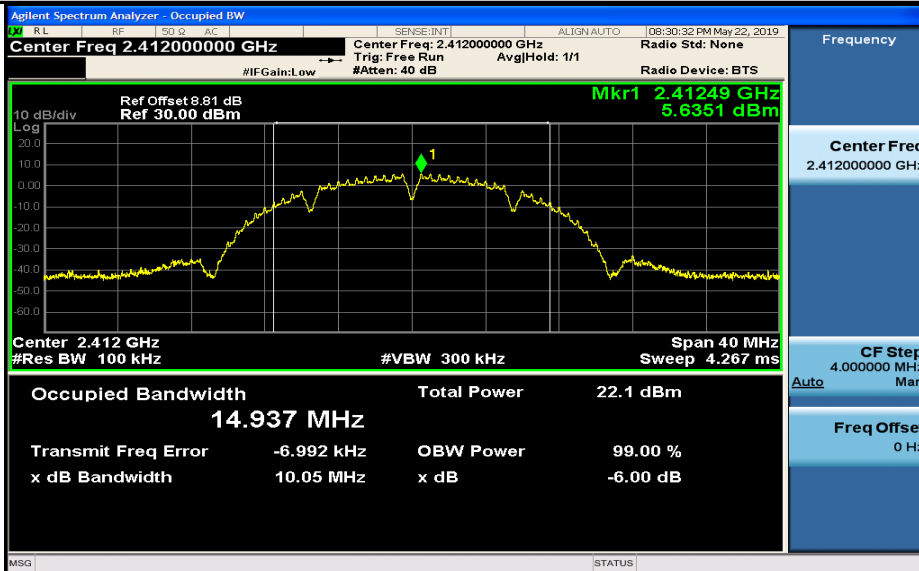


Appendix A for SHEM190501325801

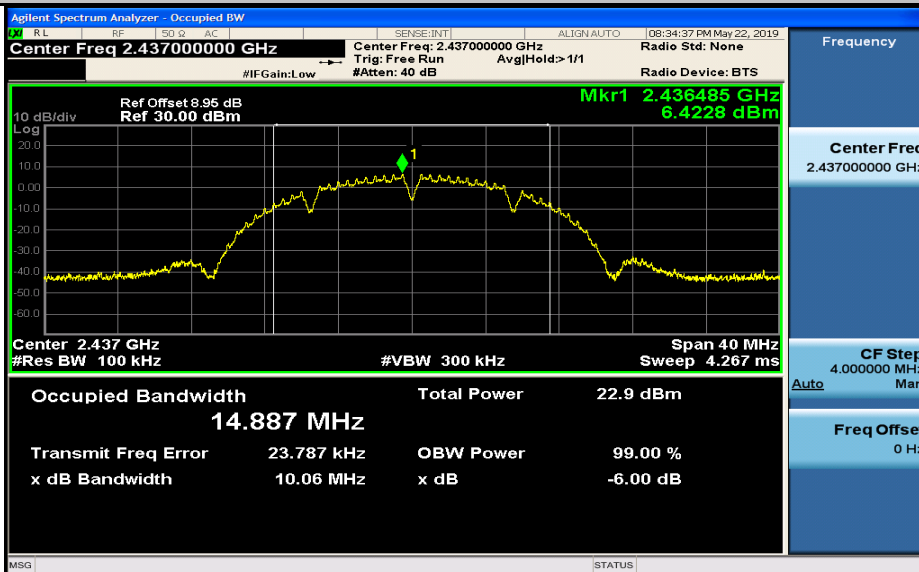
1.6dB Bandwidth

Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
11B	2412	Ant1	10.05	0.5	PASS
11B	2437	Ant1	10.06	0.5	PASS
11B	2462	Ant1	10.06	0.5	PASS
11G	2412	Ant1	16.53	0.5	PASS
11G	2437	Ant1	16.52	0.5	PASS
11G	2462	Ant1	p16.52	0.5	PASS
11N20SISO	2412	Ant1	17.79	0.5	PASS
11N20SISO	2437	Ant1	17.76	0.5	PASS
11N20SISO	2462	Ant1	17.77	0.5	PASS
11N40SISO	2422	Ant1	36.36	0.5	PASS
11N40SISO	2437	Ant1	36.33	0.5	PASS
11N40SISO	2452	Ant1	36.32	0.5	PASS

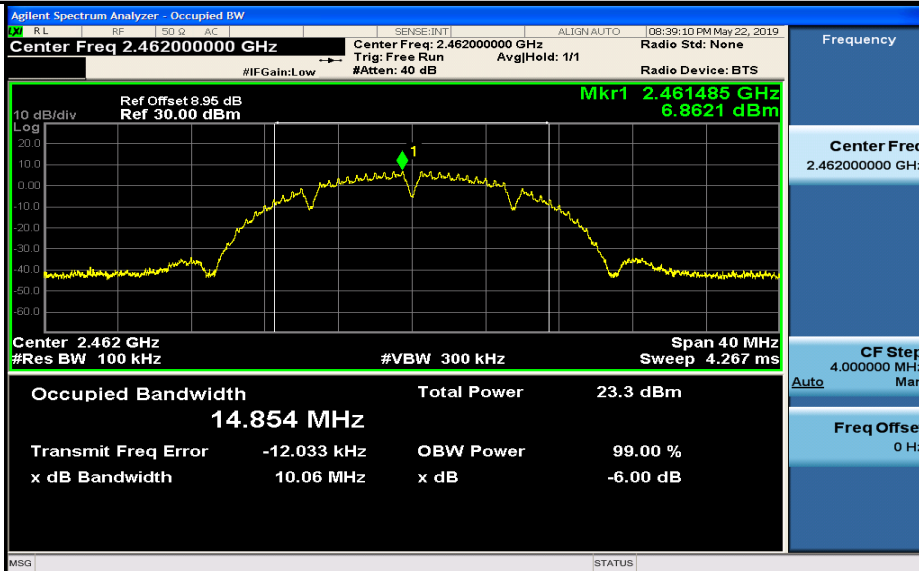
6dB Bandwidth_11B_2412_Ant1



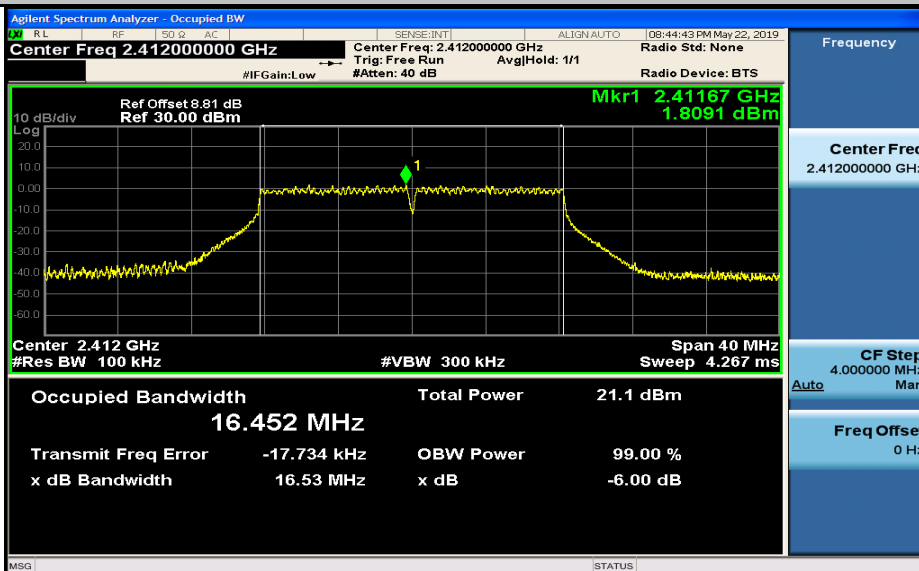
6dB Bandwidth_11B_2437_Ant1



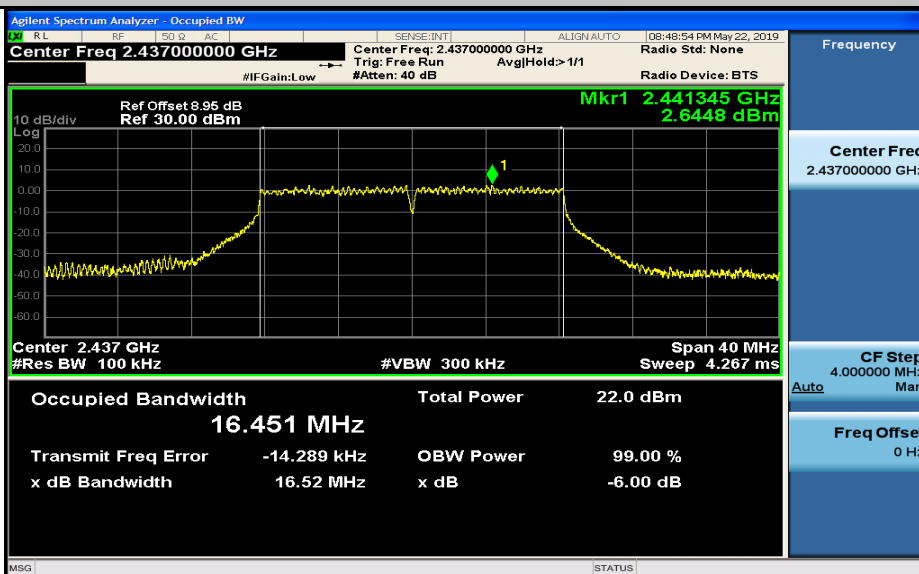
6dB Bandwidth_11B_2462_Ant1



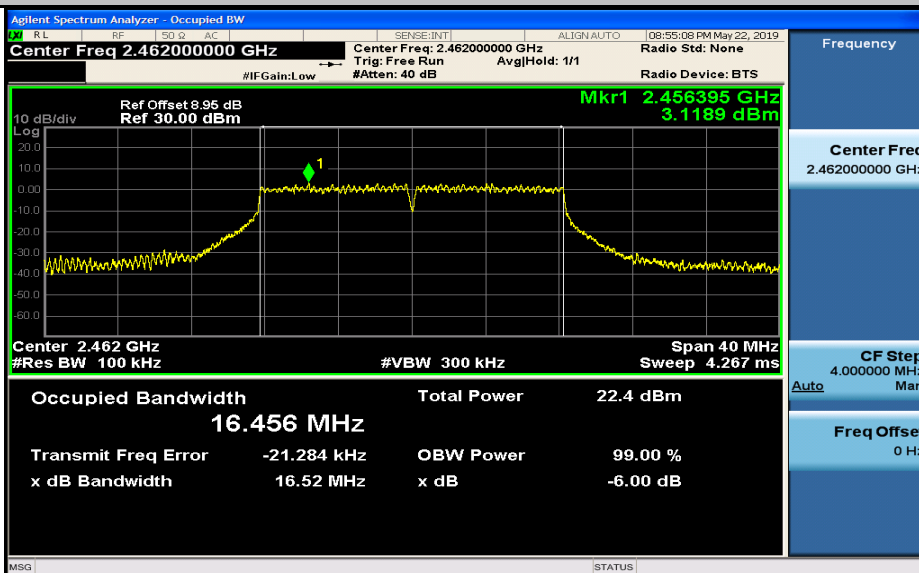
6dB Bandwidth_11G_2412_Ant1



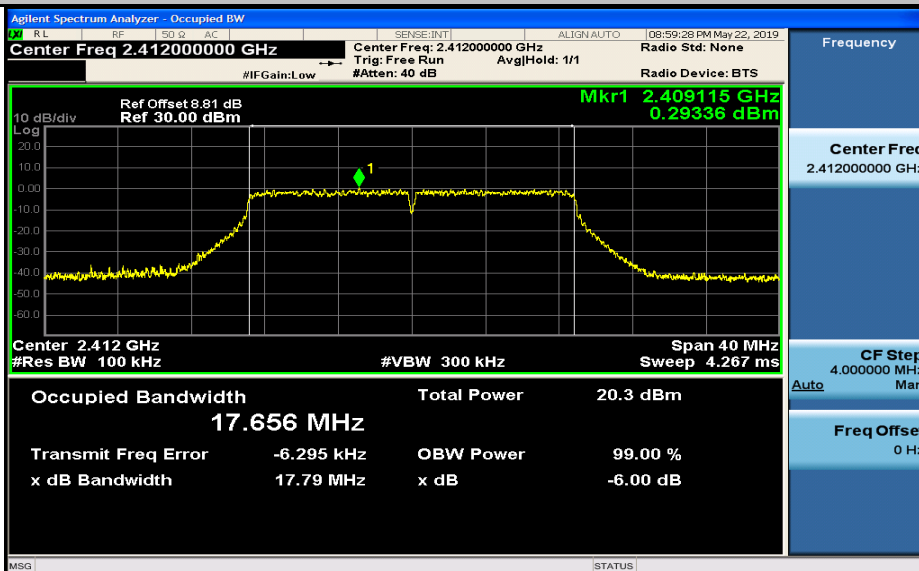
6dB Bandwidth_11G_2437_Ant1



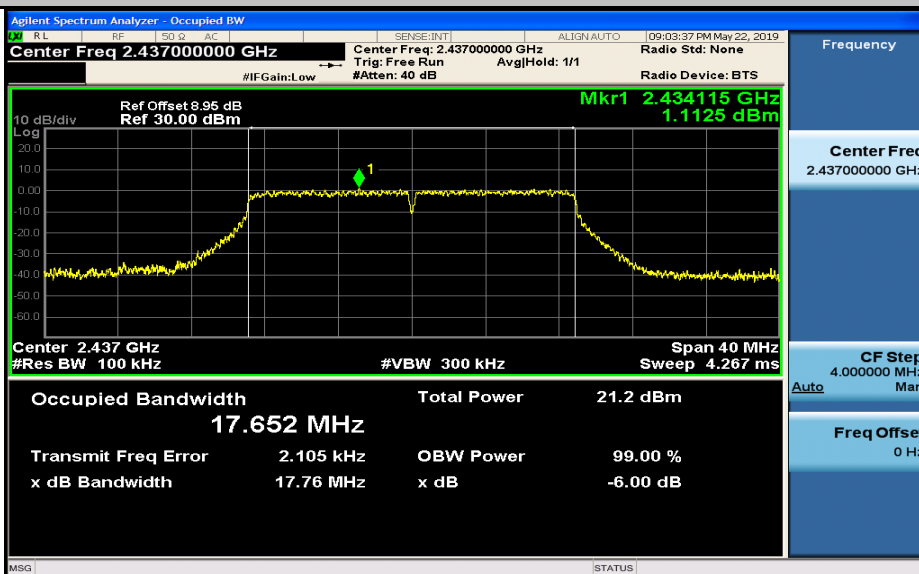
6dB Bandwidth_11G_2462_Ant1



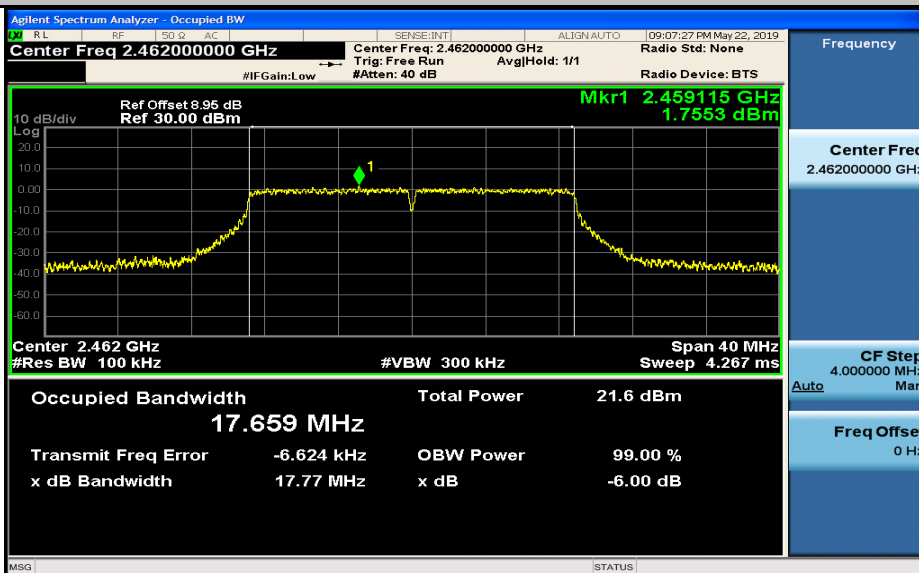
6dB Bandwidth_11N20SISO_2412_Ant1



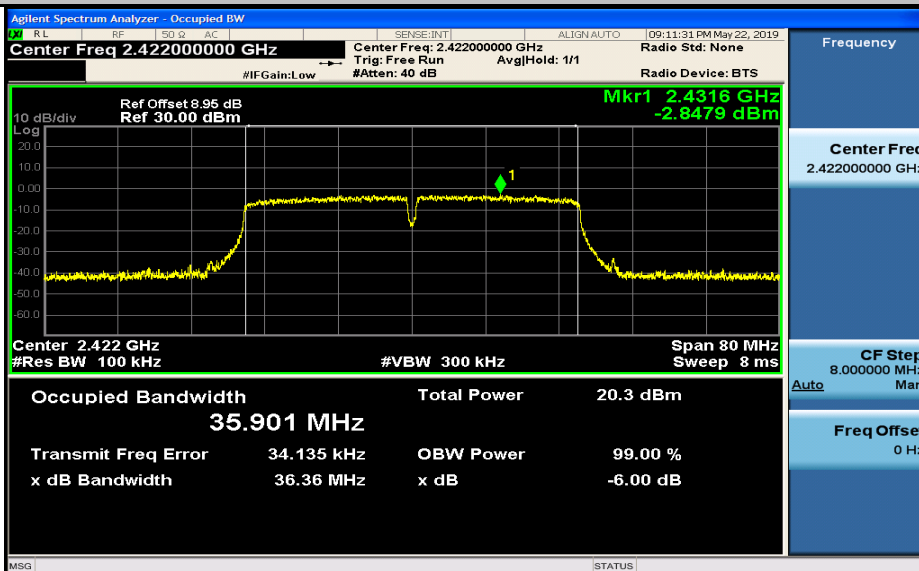
6dB Bandwidth_11N20SISO_2437_Ant1



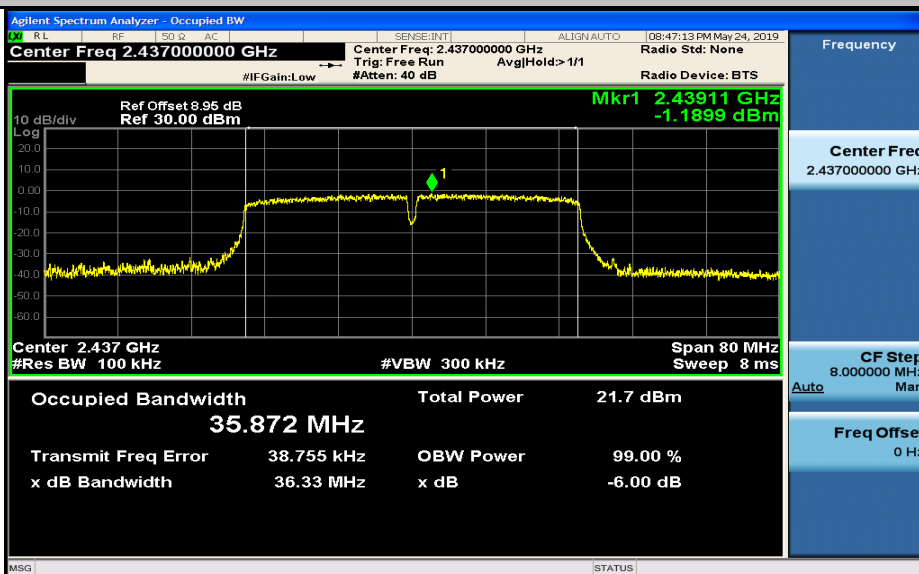
6dB Bandwidth_11N20SISO_2462_Ant1



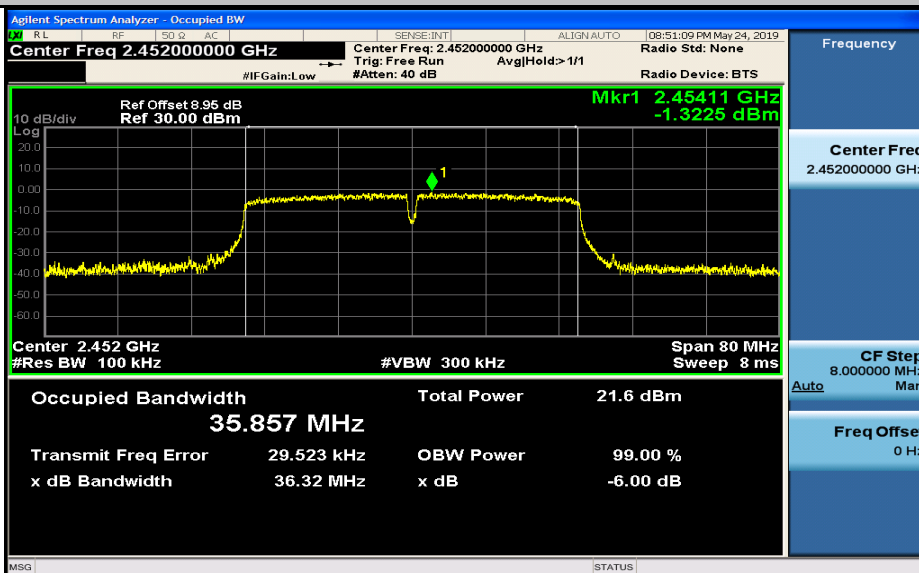
6dB Bandwidth_11N40SISO_2422_Ant1



6dB Bandwidth_11N40SISO_2437_Ant1



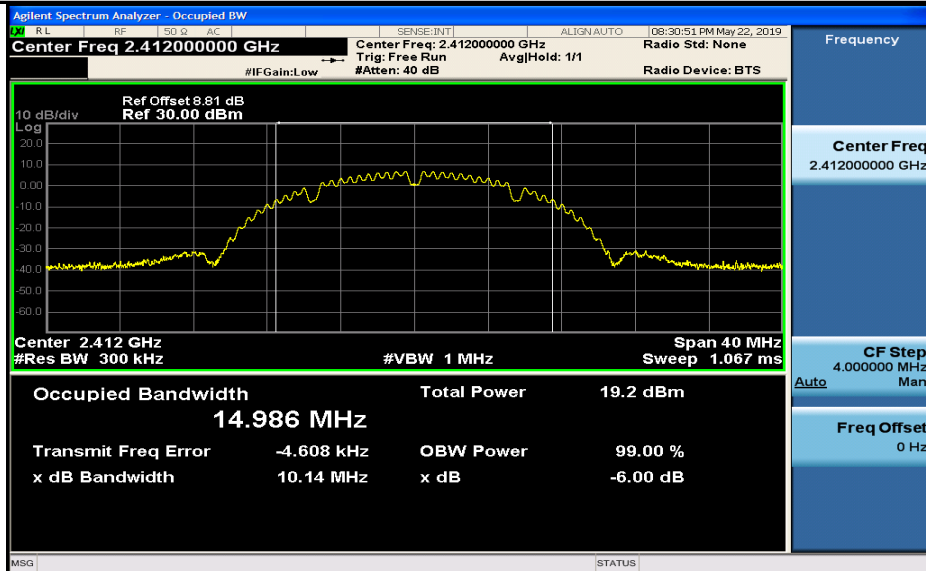
6dB Bandwidth_11N40SISO_2452_Ant1



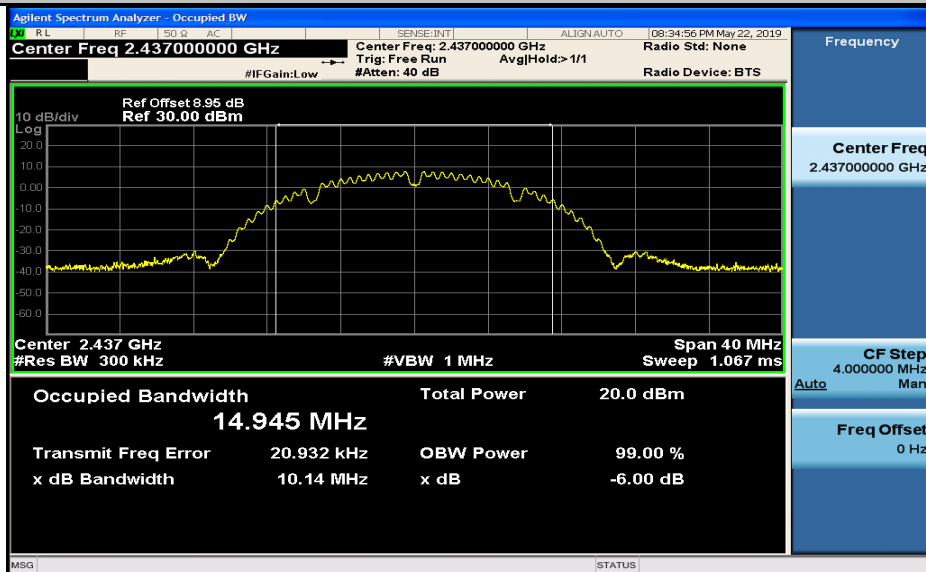
2.Occupied Bandwidth

Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
11B	2412	Ant1	14.99	---	PASS
11B	2437	Ant1	14.95	---	PASS
11B	2462	Ant1	14.90	---	PASS
11G	2412	Ant1	16.69	---	PASS
11G	2437	Ant1	16.68	---	PASS
11G	2462	Ant1	16.70	---	PASS
11N20SISO	2412	Ant1	17.86	---	PASS
11N20SISO	2437	Ant1	17.83	---	PASS
11N20SISO	2462	Ant1	17.87	---	PASS
11N40SISO	2422	Ant1	36.20	---	PASS
11N40SISO	2437	Ant1	36.19	---	PASS
11N40SISO	2452	Ant1	36.18	---	PASS

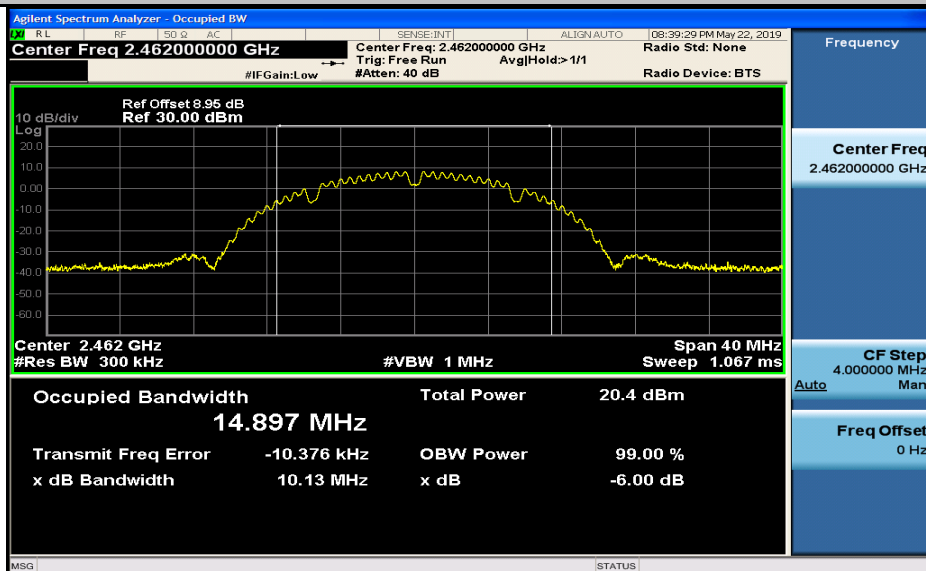
Occupied Bandwidth_11B_2412



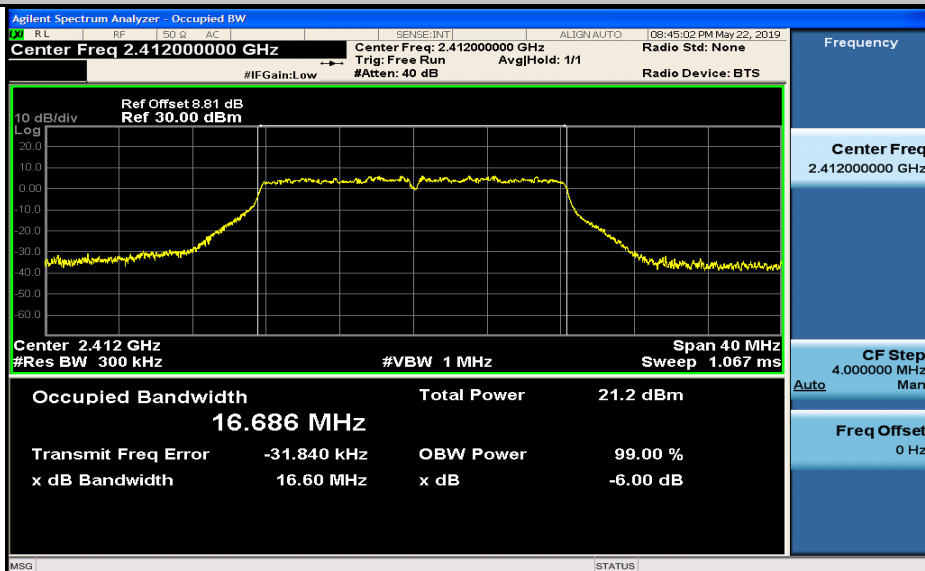
Occupied Bandwidth_11B_2437



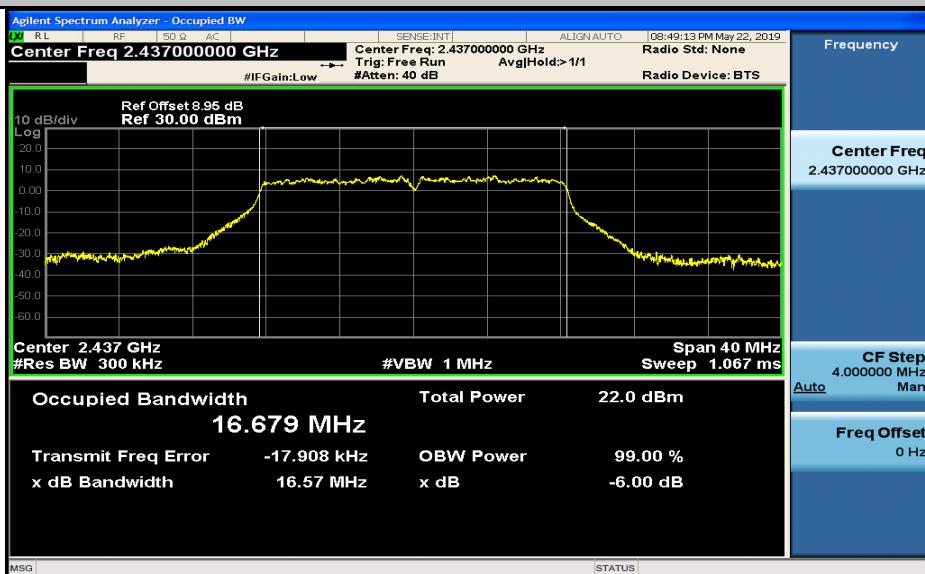
Occupied Bandwidth_11B_2462



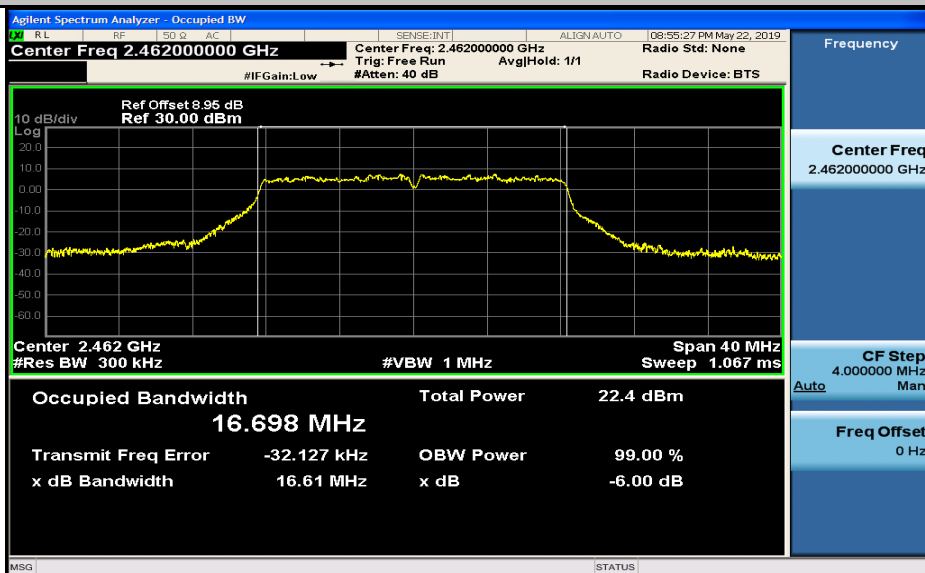
Occupied Bandwidth_11G_2412



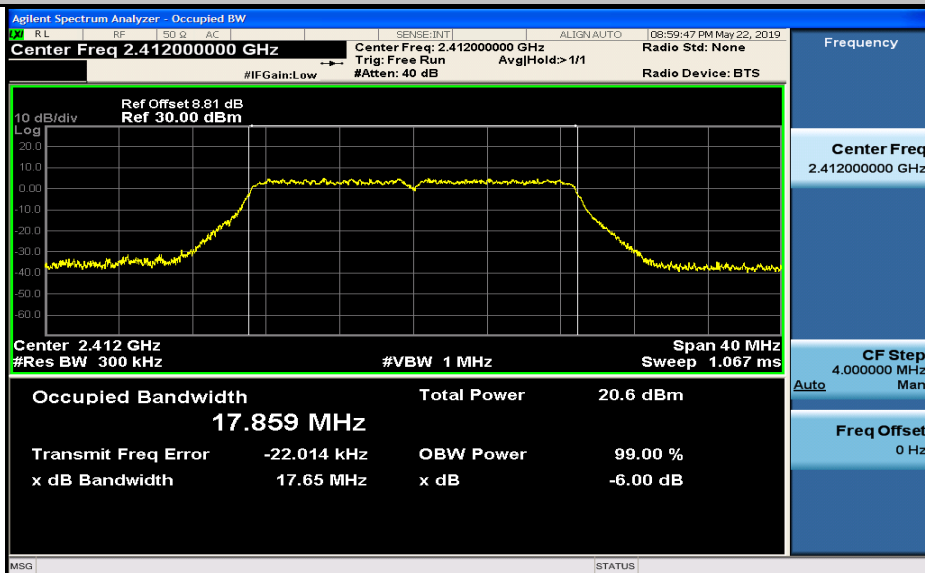
Occupied Bandwidth_11G_2437



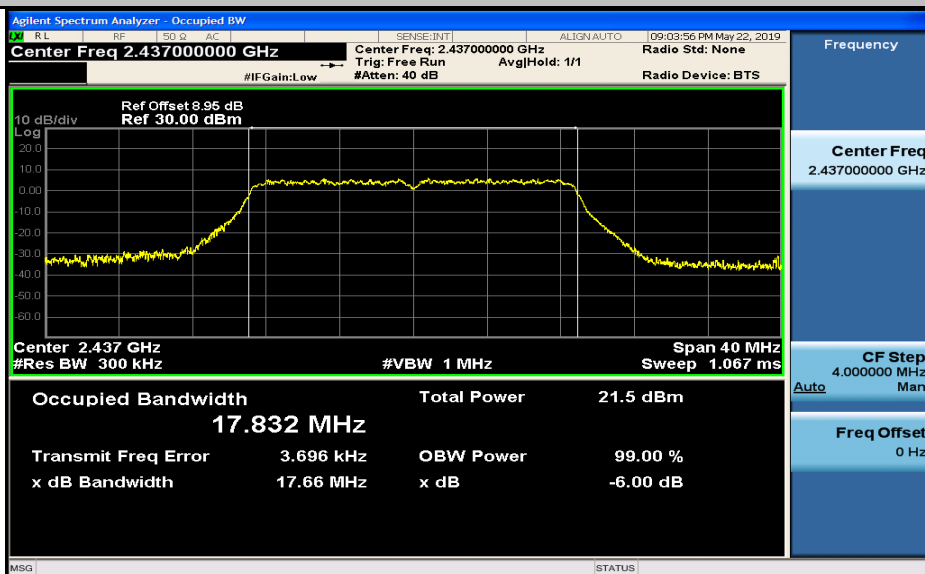
Occupied Bandwidth_11G_2462



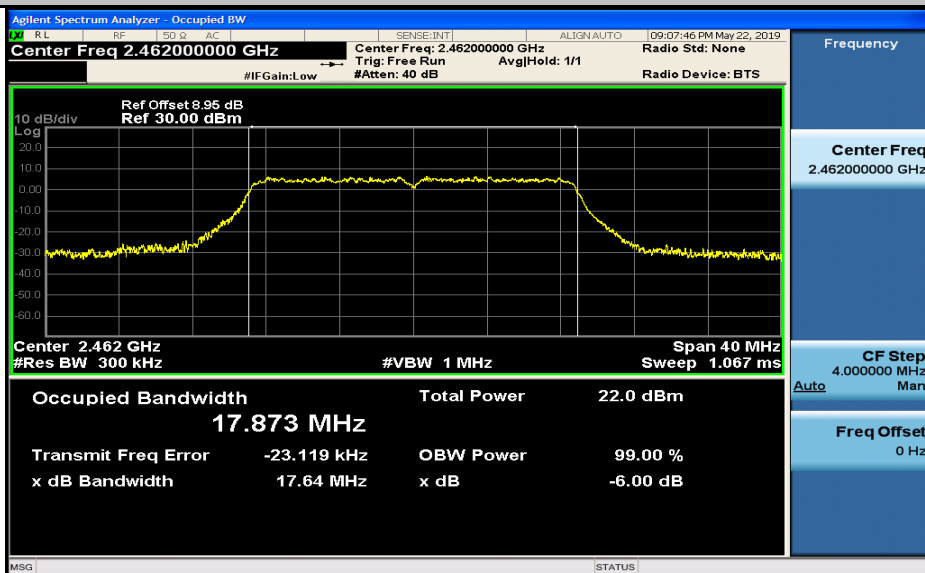
Occupied Bandwidth_11N20SISO_2412



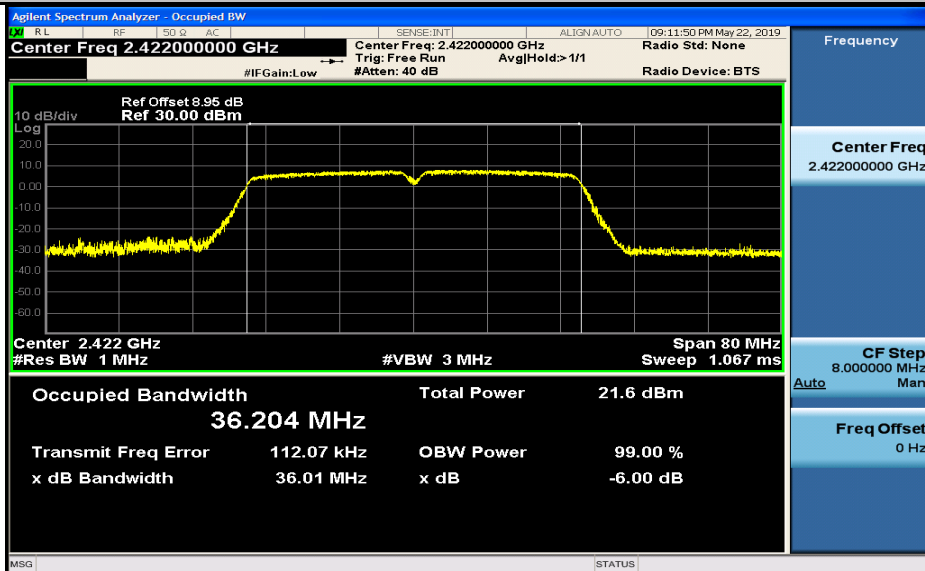
Occupied Bandwidth_11N20SISO_2437



Occupied Bandwidth_11N20SISO_2462

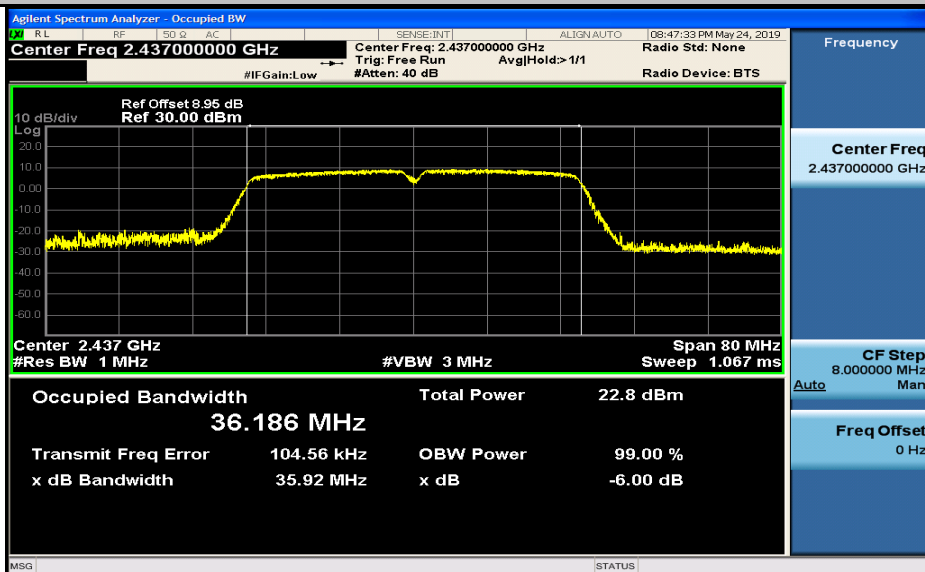


Occupied Bandwidth_11N40SISO_2422



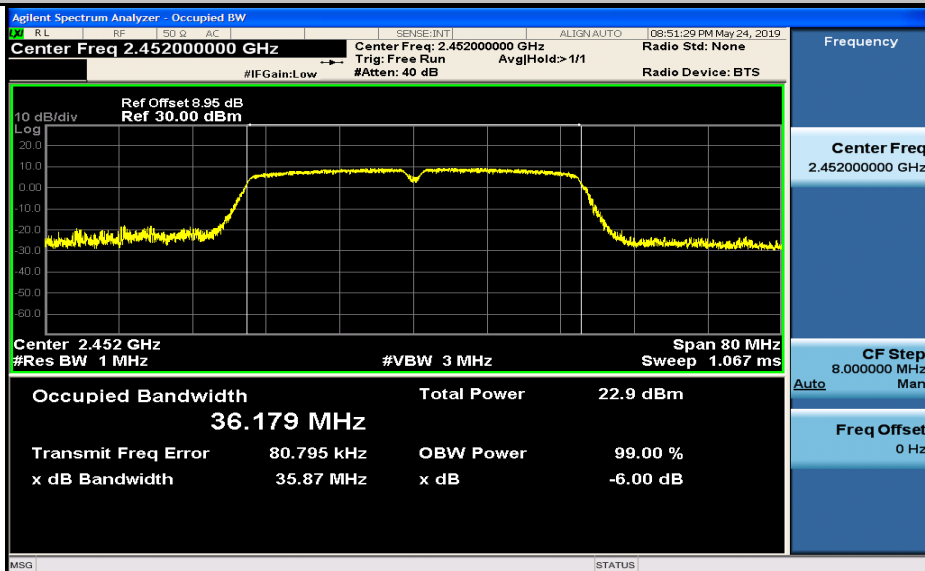
Frequency	Center Freq	2.422000000 GHz
CF Step	8.000000 MHz	Man
Freq Offset	0 Hz	

Occupied Bandwidth_11N40SISO_2437



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

Occupied Bandwidth_11N40SISO_2452

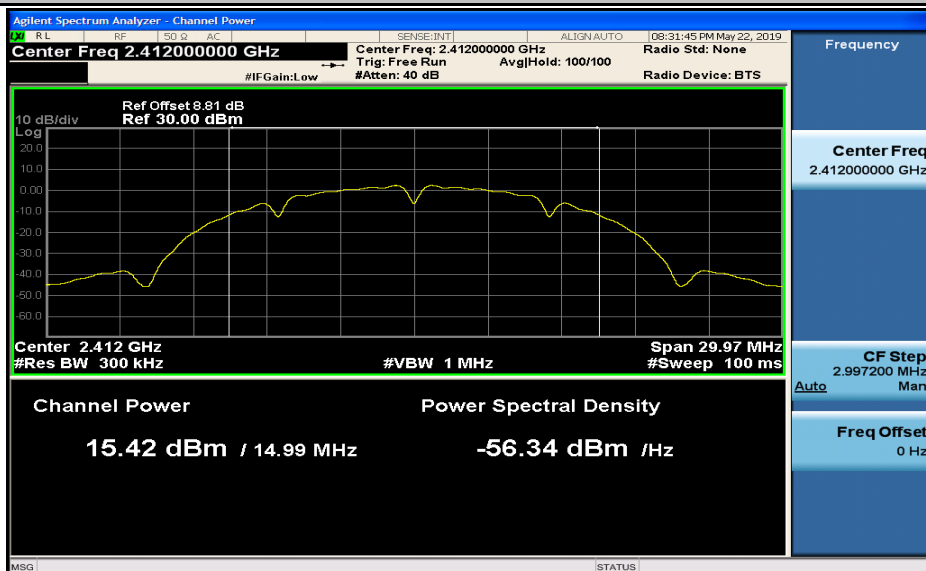


Frequency	Center Freq	2.452000000 GHz
CF Step	8.000000 MHz	Man
Freq Offset	0 Hz	

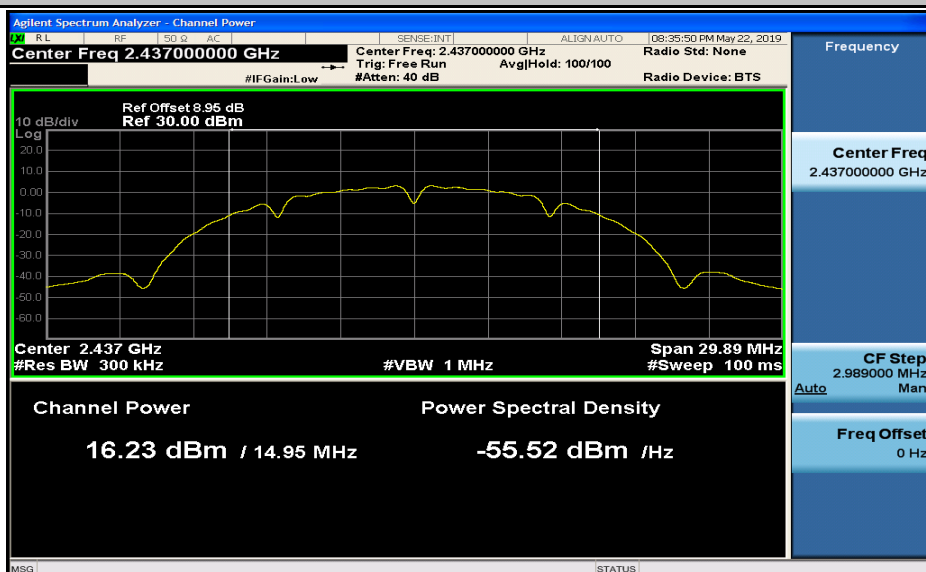
3.Maximum conducted (average) output power

Test Mode	Test Channel	Ant	Level [dBm]	10log(1/x) Factor[dB]	Power [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	15.42	0.00	15.42	30	PASS
11B	2437	Ant1	16.23	0.00	16.23	30	PASS
11B	2462	Ant1	16.65	0.00	16.65	30	PASS
11G	2412	Ant1	14.42	0.00	14.42	30	PASS
11G	2437	Ant1	15.27	0.00	15.27	30	PASS
11G	2462	Ant1	15.71	0.00	15.71	30	PASS
11N20SISO	2412	Ant1	14.41	0.00	14.41	30	PASS
11N20SISO	2437	Ant1	15.26	0.00	15.26	30	PASS
11N20SISO	2462	Ant1	15.71	0.00	15.71	30	PASS
11N40SISO	2422	Ant1	14.33	0.00	14.33	30	PASS
11N40SISO	2437	Ant1	15.46	0.00	15.46	30	PASS
11N40SISO	2452	Ant1	15.62	0.00	15.62	30	PASS

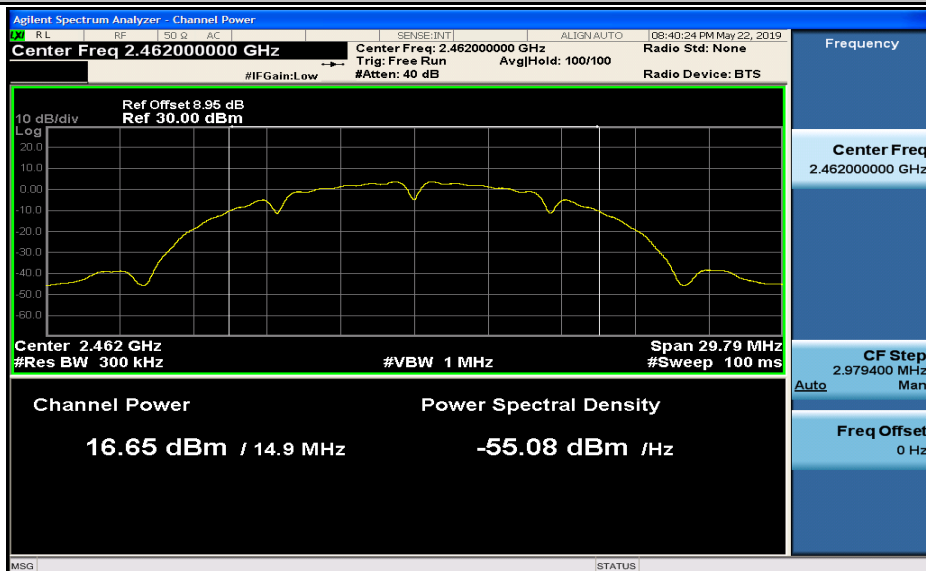
Maximum conducted (average) output power_11B_2412_Ant1



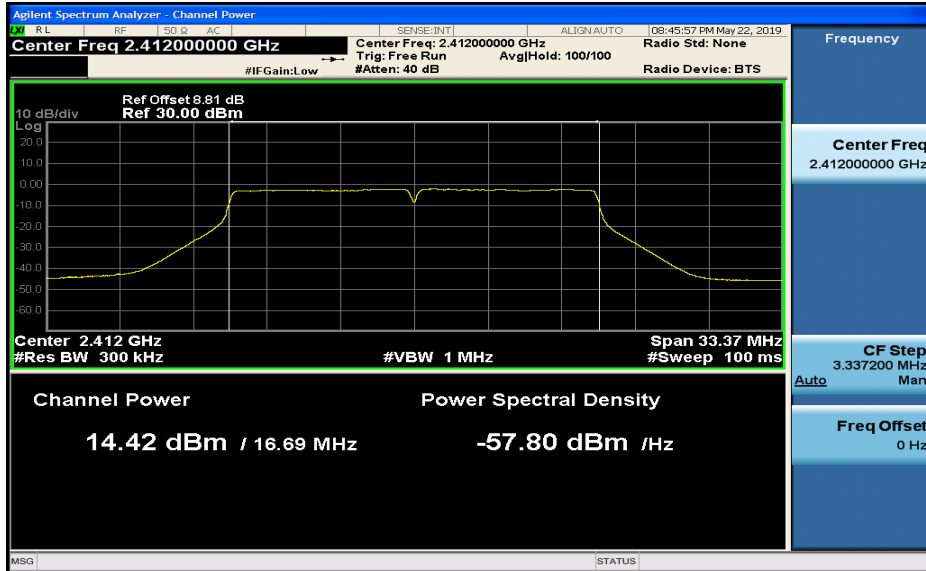
Maximum conducted (average) output power_11B_2437_Ant1



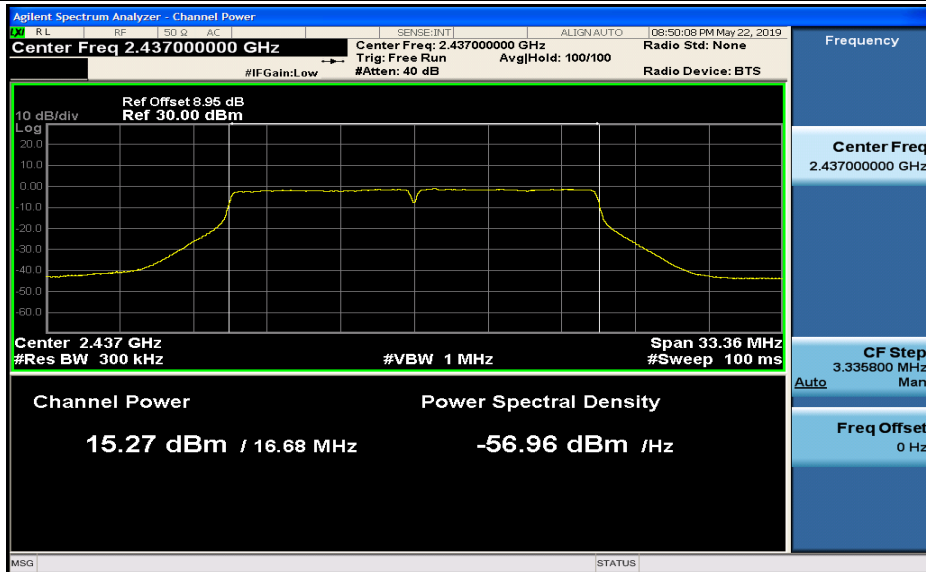
Maximum conducted (average) output power_11B_2462_Ant1



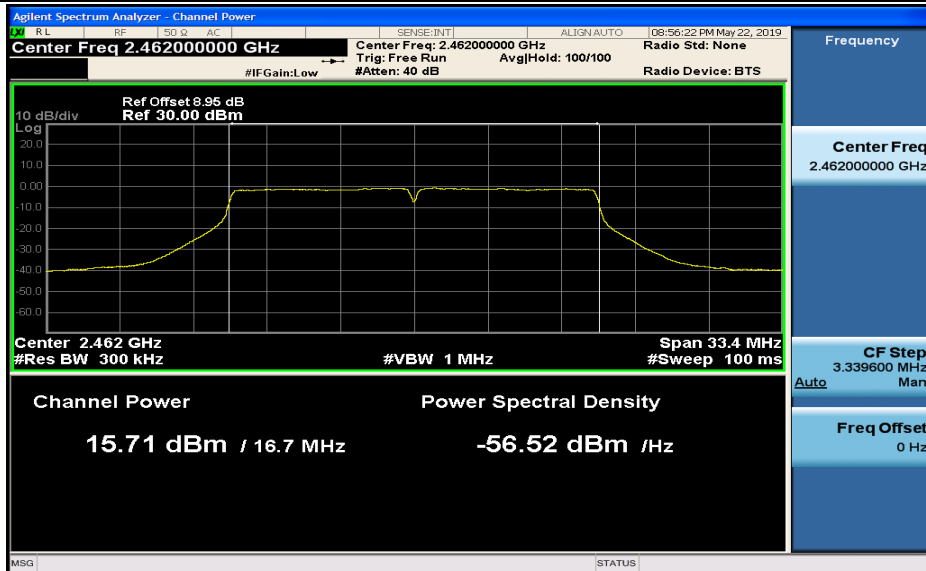
Maximum conducted (average) output power_11G_2412_Ant1



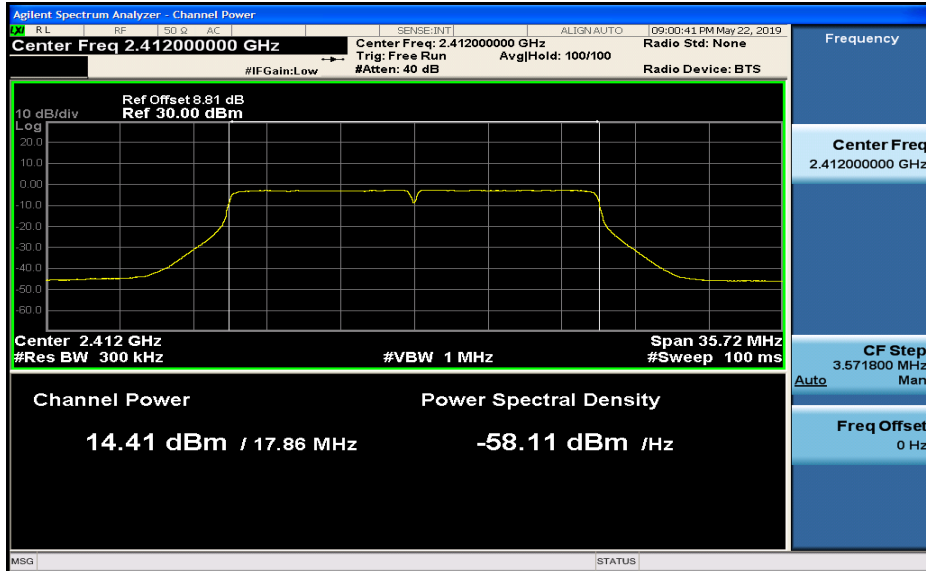
Maximum conducted (average) output power_11G_2437_Ant1



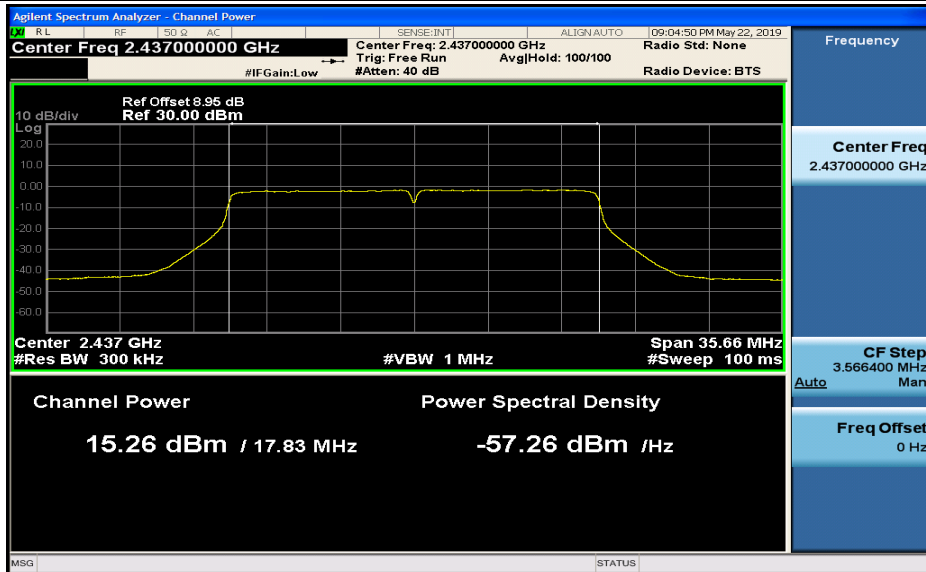
Maximum conducted (average) output power_11G_2462_Ant1



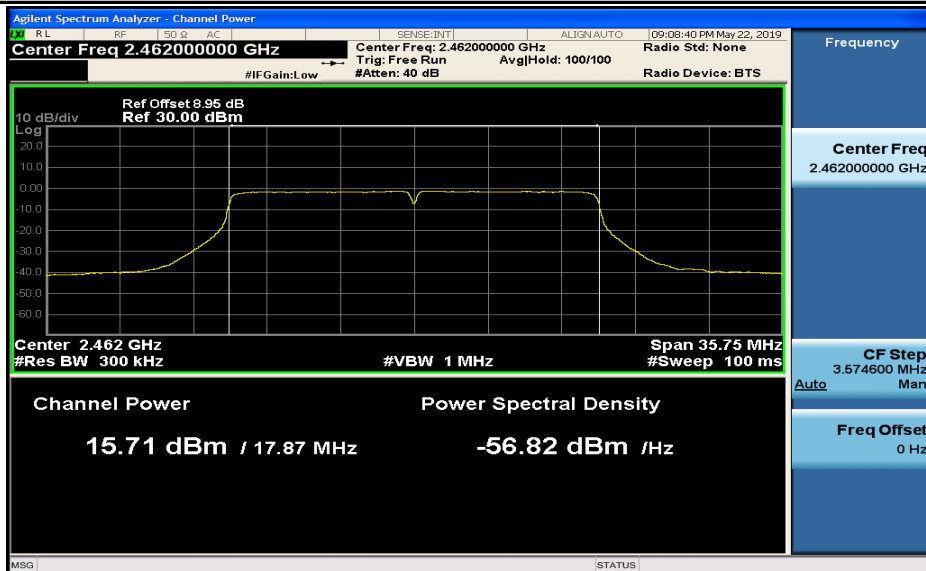
Maximum conducted (average) output power_11N20SISO_2412_Ant1



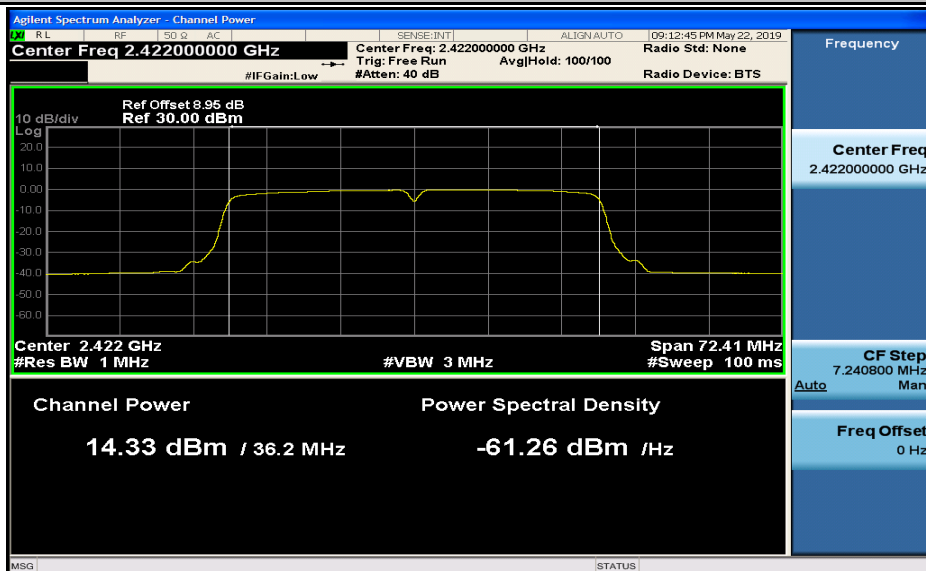
Maximum conducted (average) output power_11N20SISO_2437_Ant1



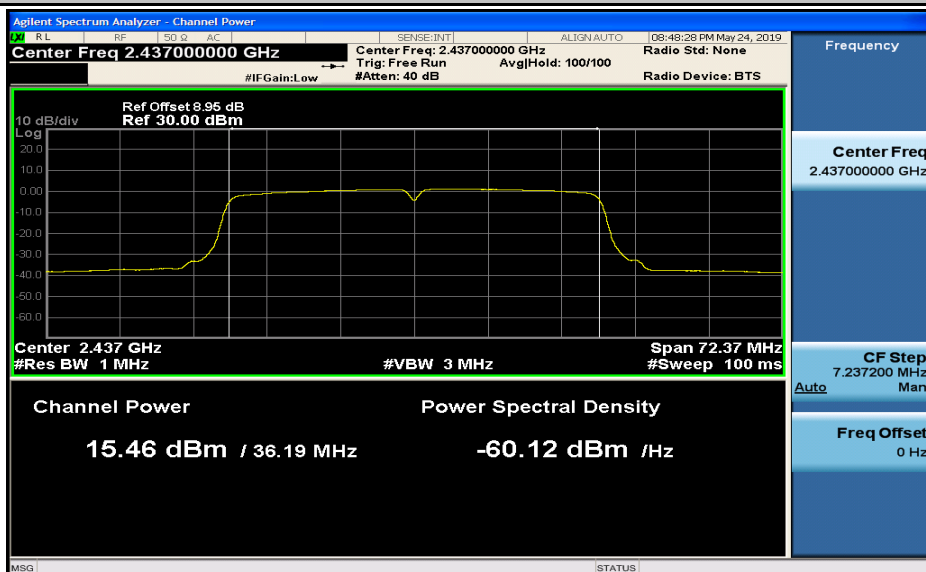
Maximum conducted (average) output power_11N20SISO_2462_Ant1



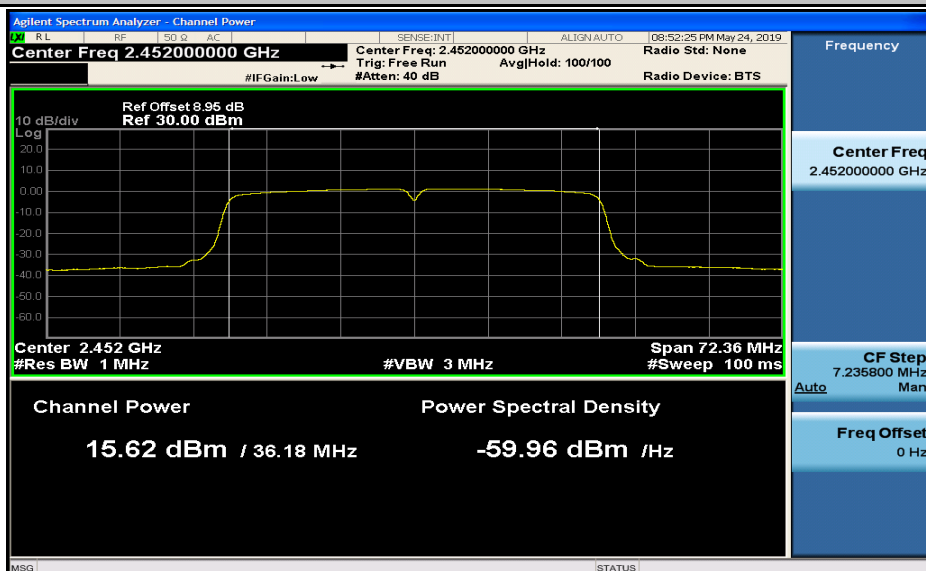
Maximum conducted (average) output power_11N40SISO_2422_Ant1



Maximum conducted (average) output power_11N40SISO_2437_Ant1



Maximum conducted (average) output power_11N40SISO_2452_Ant1



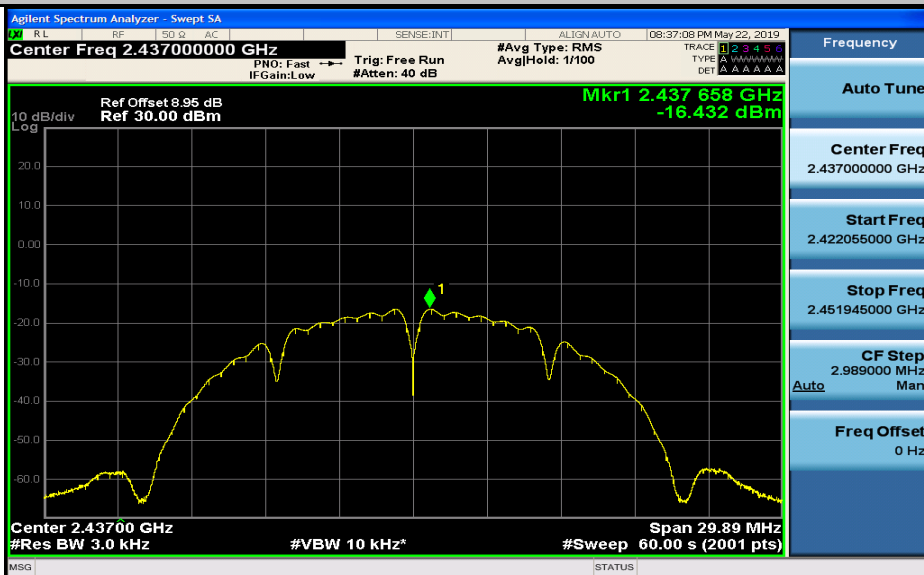
4.Maximum(average) power spectral density

Test Mode	Test Channel	Ant	Level [dBm/3kHz]	10log(1/x) Factor[dB]	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	Ant1	-17.29	0.00	-17.29	8.00	PASS
11B	2437	Ant1	-16.43	0.00	-16.43	8.00	PASS
11B	2462	Ant1	-16.03	0.00	-16.03	8.00	PASS
11G	2412	Ant1	-18.12	0.00	-18.12	8.00	PASS
11G	2437	Ant1	-17.58	0.00	-17.58	8.00	PASS
11G	2462	Ant1	-16.85	0.00	-16.85	8.00	PASS
11N20SISO	2412	Ant1	-20.36	0.00	-20.36	8.00	PASS
11N20SISO	2437	Ant1	-19.63	0.00	-19.63	8.00	PASS
11N20SISO	2462	Ant1	-19.11	0.00	-19.11	8.00	PASS
11N40SISO	2422	Ant1	-23.77	0.00	-23.77	8.00	PASS
11N40SISO	2437	Ant1	-22.49	0.00	-22.49	8.00	PASS
11N40SISO	2452	Ant1	-22.39	0.00	-22.39	8.00	PASS

Maximum(average) power spectral density_11B_2412_Ant1



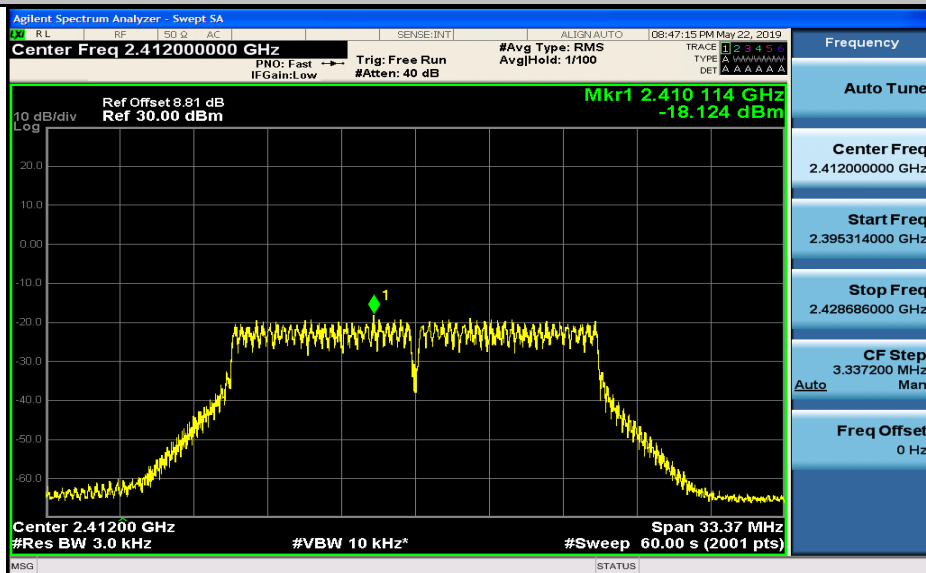
Maximum(average) power spectral density_11B_2437_Ant1



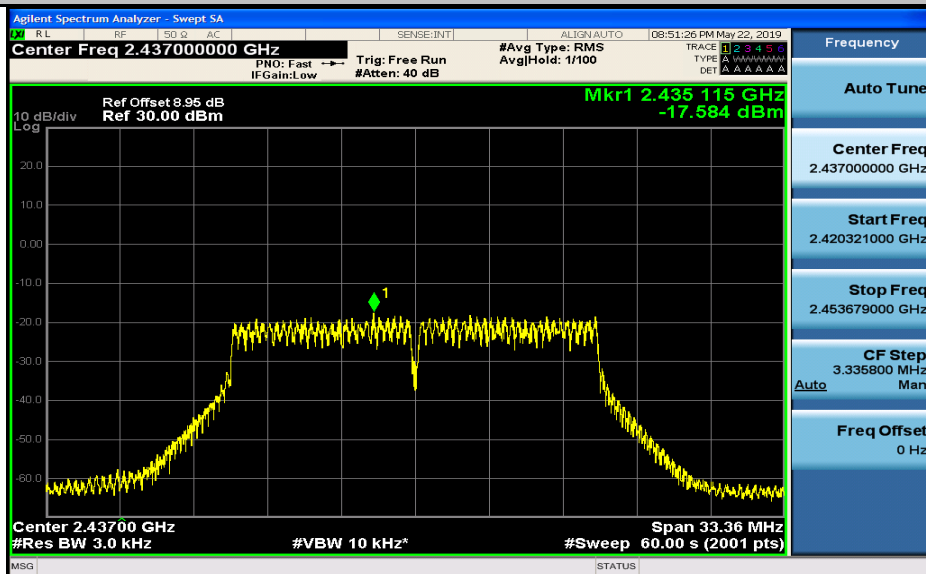
Maximum(average) power spectral density_11B_2462_Ant1



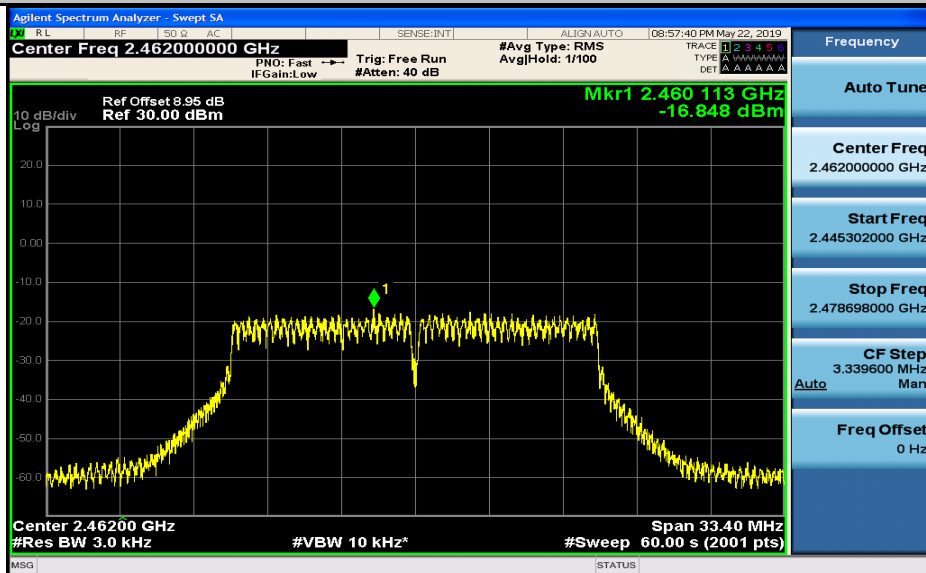
Maximum(average) power spectral density_11G_2412_Ant1



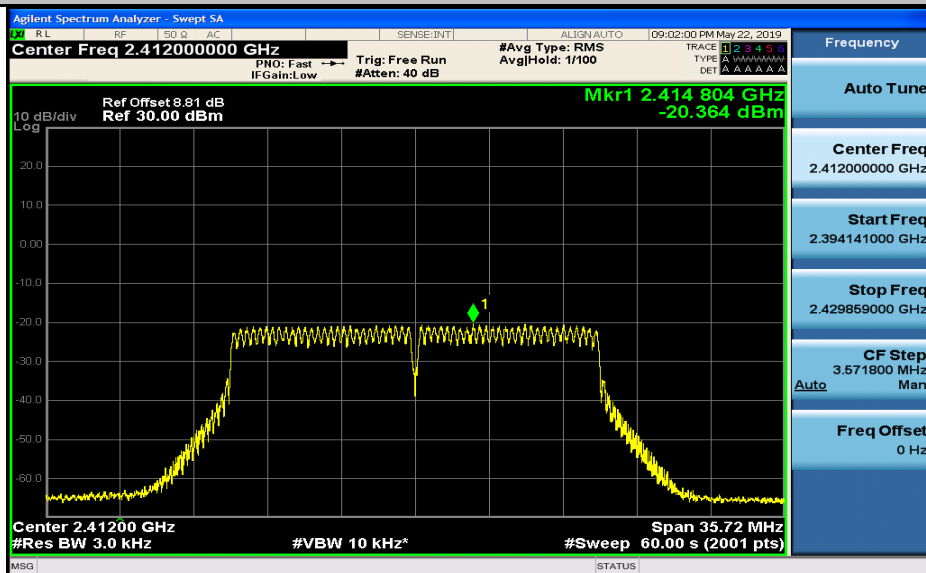
Maximum(average) power spectral density_11G_2437_Ant1



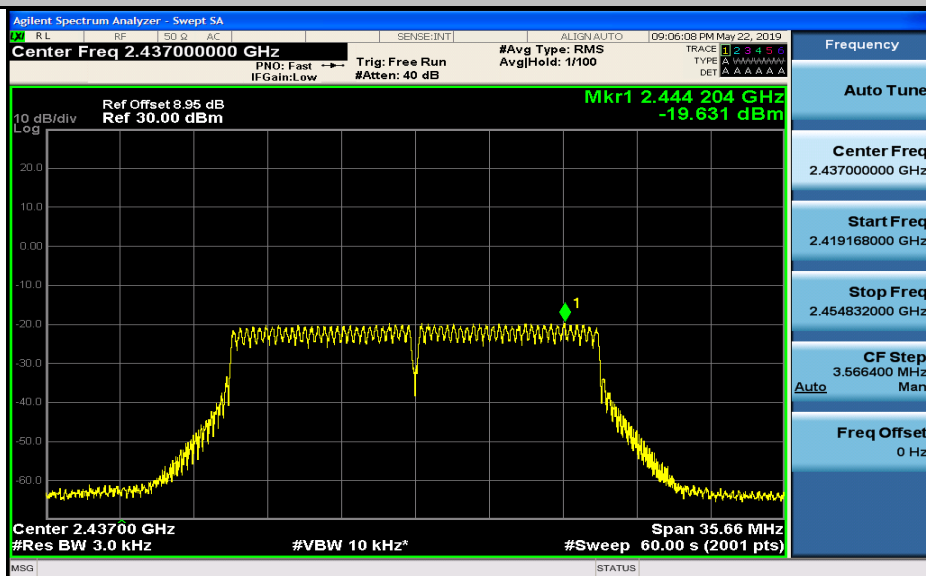
Maximum(average) power spectral density_11G_2462_Ant1



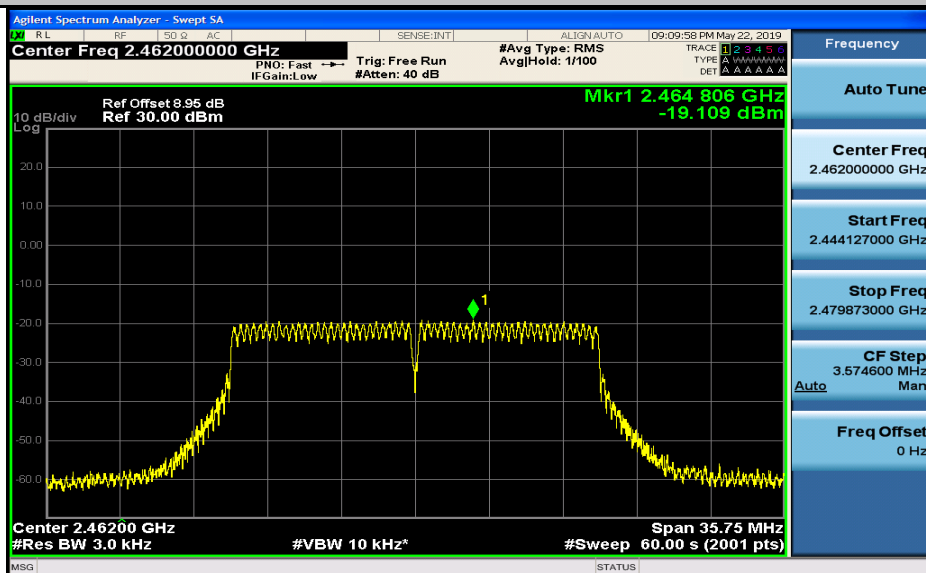
Maximum(average) power spectral density_11N20SISO_2412_Ant1



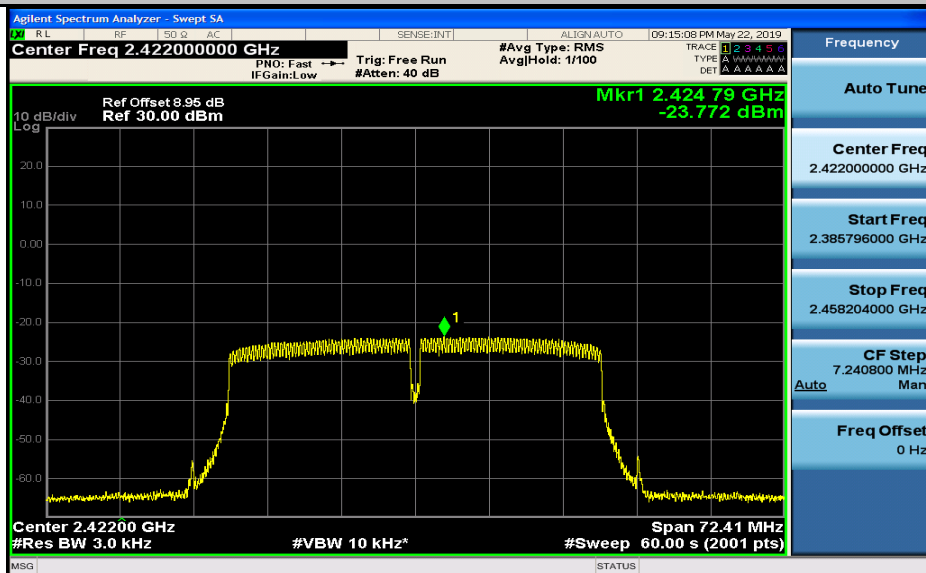
Maximum(average) power spectral density_11N20SISO_2437_Ant1



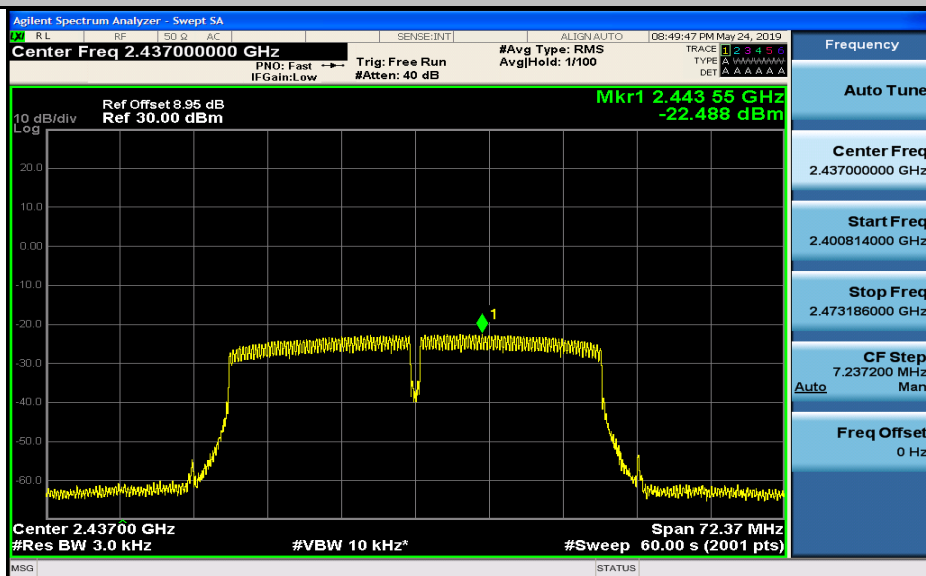
Maximum(average) power spectral density_11N20SISO_2462_Ant1



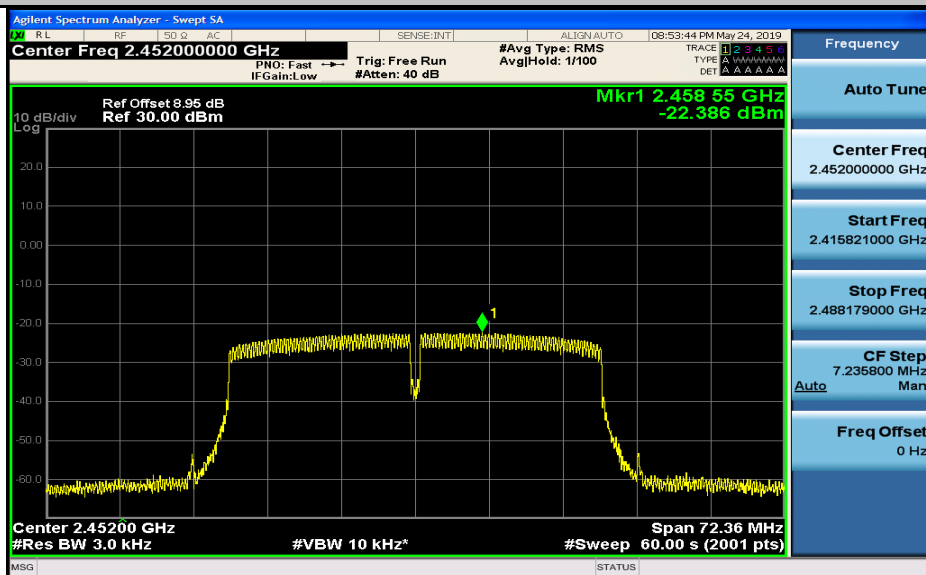
Maximum(average) power spectral density_11N40SISO_2422_Ant1



Maximum(average) power spectral density_11N40SISO_2437_Ant1



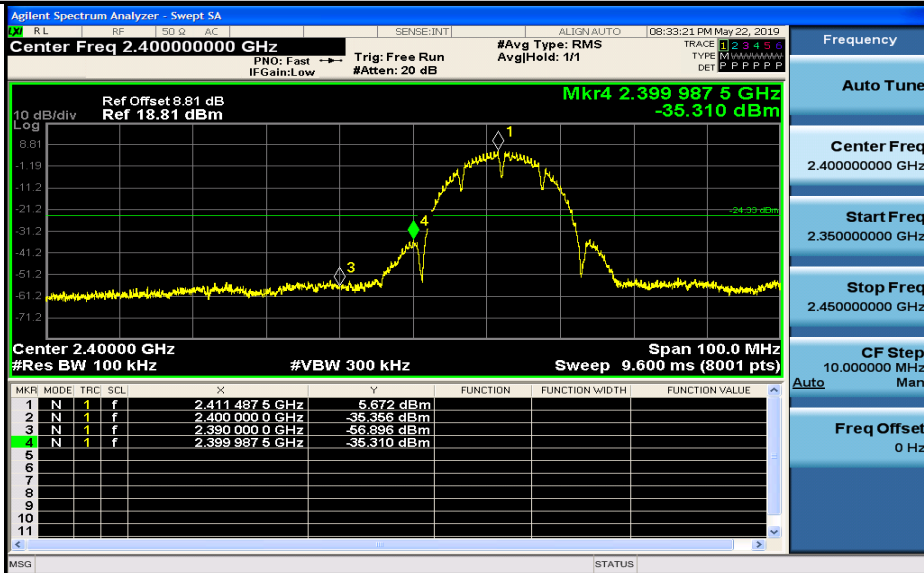
Maximum(average) power spectral density_11N40SISO_2452_Ant1



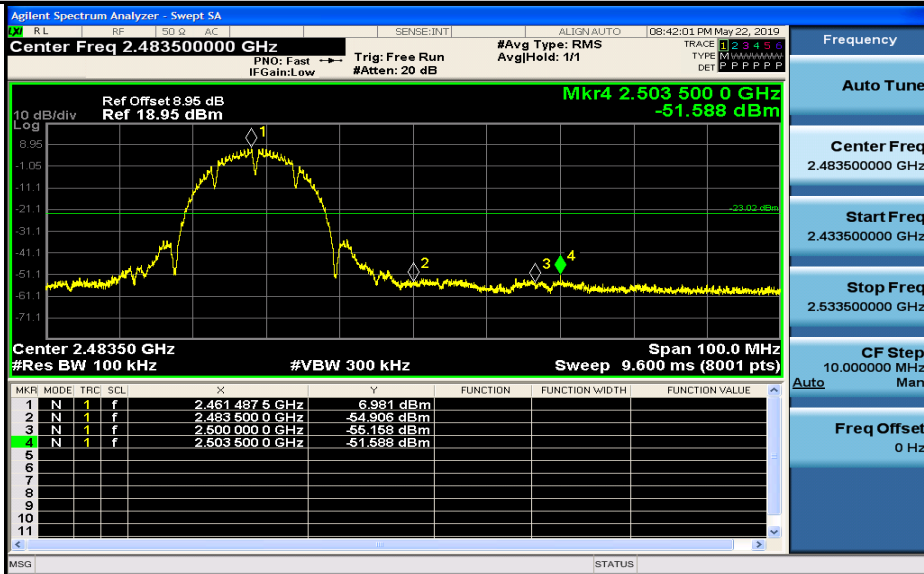
5.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	5.67	-35.31	-24.33	PASS
11B	2462	Ant1	6.98	-51.59	-23.02	PASS
11G	2412	Ant1	1.82	-35.27	-28.18	PASS
11G	2462	Ant1	2.94	-37.68	-27.06	PASS
11N20SISO	2412	Ant1	0.29	-36.91	-29.71	PASS
11N20SISO	2462	Ant1	1.84	-37.15	-28.16	PASS
11N40SISO	2422	Ant1	-2.70	-37.41	-32.70	PASS
11N40SISO	2452	Ant1	-1.32	-36.84	-31.32	PASS

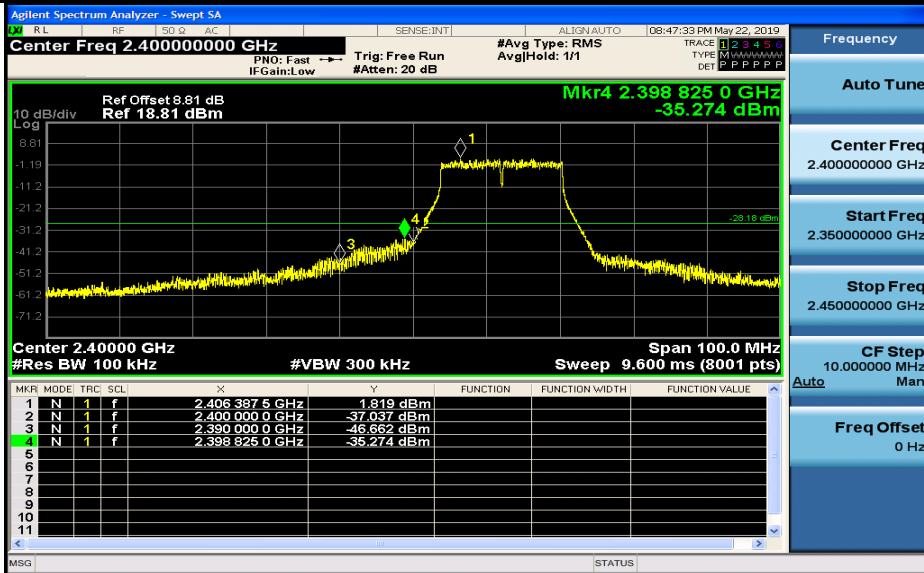
Band-edge for RF Conducted Emissions_11B_2412_Ant1



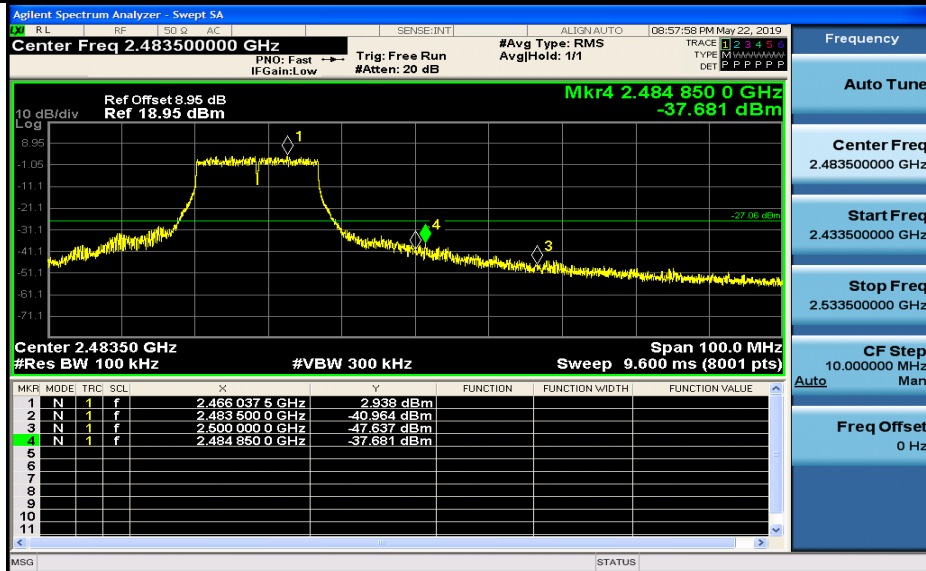
Band-edge for RF Conducted Emissions_11B_2462_Ant1



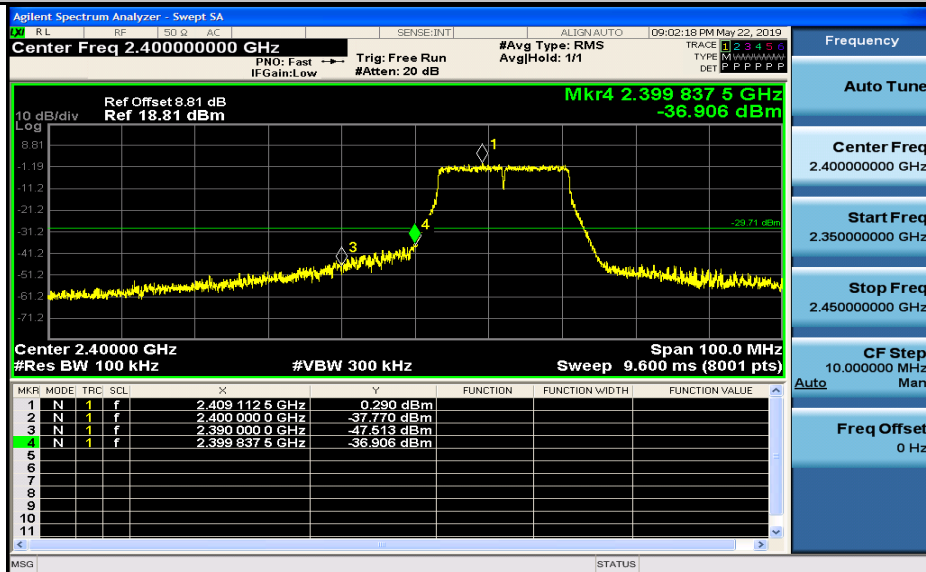
Band-edge for RF Conducted Emissions_11G_2412_Ant1



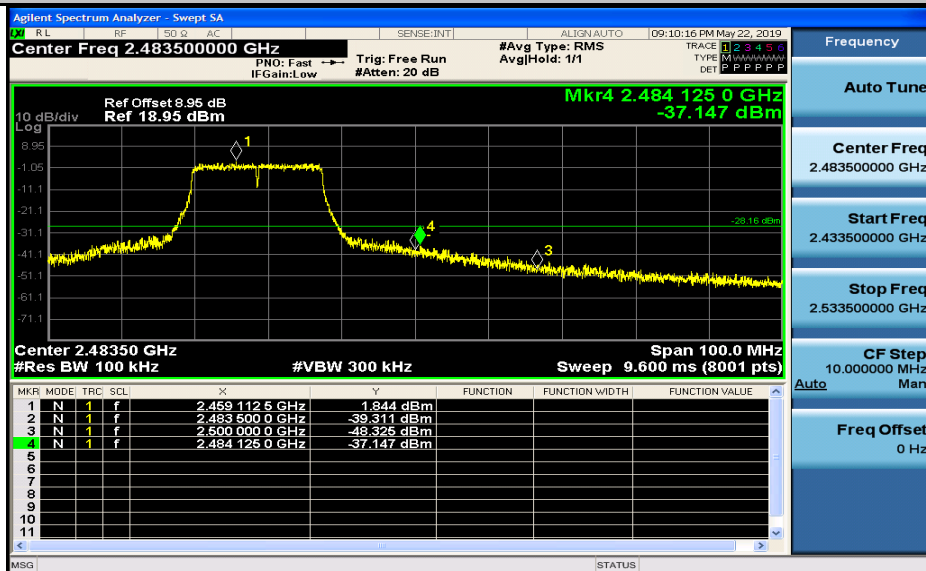
Band-edge for RF Conducted Emissions_11G_2462_Ant1



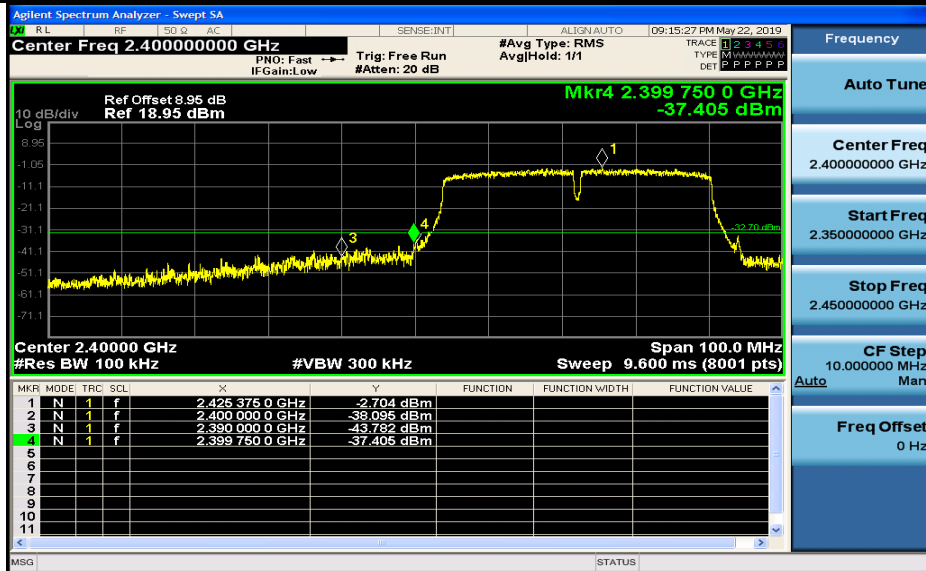
Band-edge for RF Conducted Emissions_11N20SISO_2412_Ant1



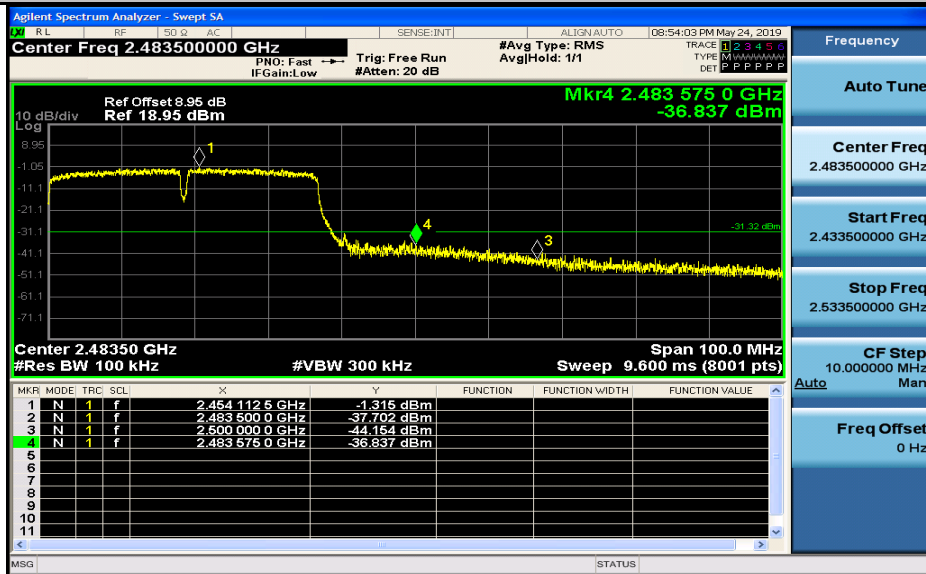
Band-edge for RF Conducted Emissions_11N20SISO_2462_Ant1



Band-edge for RF Conducted Emissions_11N40SISO_2422_Ant1



Band-edge for RF Conducted Emissions_11N40SISO_2452_Ant1



6.RF Conducted Spurious Emissions

Test Mode	Test Channel	Ant	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	30	10000	100	300	5.60	-32.84	<- 24.40	PASS
11B	2412	Ant1	10000	26000	100	300	5.601	-43.712	<- 24.399	PASS
11B	2437	Ant1	30	10000	100	300	6.46	-34.12	<- 23.54	PASS
11B	2437	Ant1	10000	26000	100	300	6.459	-43.414	<- 23.541	PASS
11B	2462	Ant1	30	10000	100	300	6.89	-38.20	<- 23.11	PASS
11B	2462	Ant1	10000	26000	100	300	6.891	-43.822	<- 23.109	PASS
11G	2412	Ant1	30	10000	100	300	1.83	-35.67	<- 28.17	PASS
11G	2412	Ant1	10000	26000	100	300	1.827	-43.997	<- 28.173	PASS
11G	2437	Ant1	30	10000	100	300	2.62	-35.35	<- 27.38	PASS
11G	2437	Ant1	10000	26000	100	300	2.624	-43.199	<- 27.376	PASS
11G	2462	Ant1	30	10000	100	300	3.16	-38.17	<- 26.84	PASS
11G	2462	Ant1	10000	26000	100	300	3.158	-44.212	<- 26.842	PASS
11N20SISO	2412	Ant1	30	10000	100	300	0.25	-34.63	<- 29.75	PASS
11N20SISO	2412	Ant1	10000	26000	100	300	0.253	-43.914	<- 29.747	PASS
11N20SISO	2437	Ant1	30	10000	100	300	1.00	-35.28	<- 29.01	PASS
11N20SISO	2437	Ant1	10000	26000	100	300	0.995	-43.763	<- 29.005	PASS
11N20SISO	2462	Ant1	30	10000	100	300	1.28	-38.58	<- 28.72	PASS
11N20SISO	2462	Ant1	10000	26000	100	300	1.281	-42.915	<- 28.719	PASS
11N40SISO	2422	Ant1	30	10000	100	300	-2.66	-35.18	<- 32.66	PASS
11N40SISO	2422	Ant1	10000	26000	100	300	-2.655	-44.219	<- 32.655	PASS
11N40SISO	2437	Ant1	30	10000	100	300	-1.63	-35.09	<- 31.63	PASS
11N40SISO	2437	Ant1	10000	26000	100	300	-1.632	-43.980	<- 31.632	PASS
11N40SISO	2452	Ant1	30	10000	100	300	-1.29	-37.30	<- 31.29	PASS

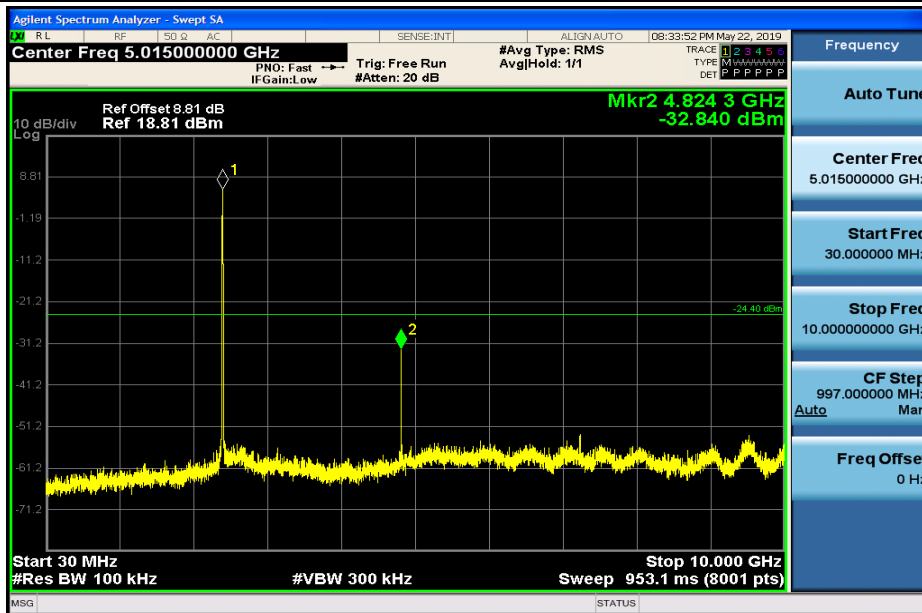


11N40SISO	2452	Ant1	10000	26000	100	300	-1.287	-43.745	< 31.287	PASS
-----------	------	------	-------	-------	-----	-----	--------	---------	-------------	------

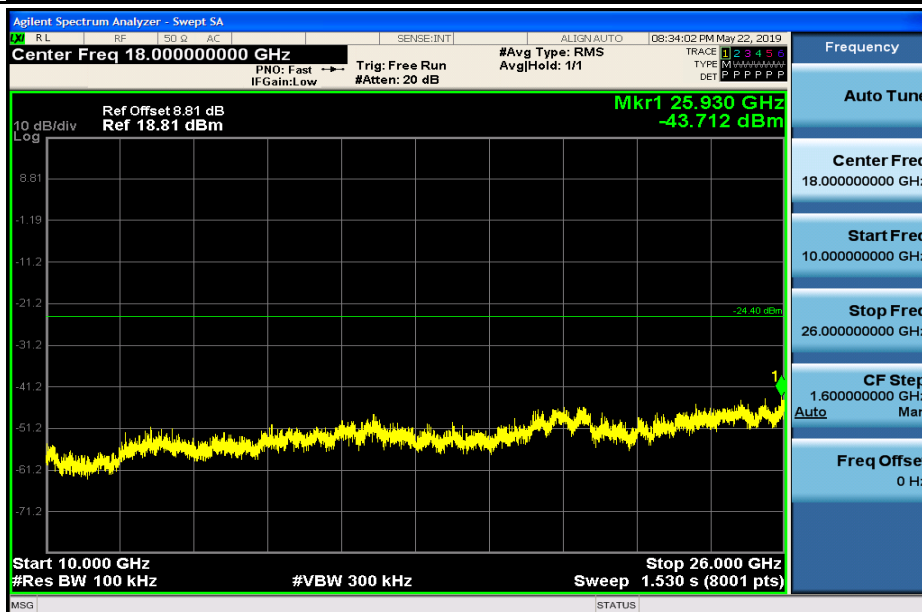
RF Conducted Spurious Emissions_11B_2412



Frequency
Auto Tune
Center Freq 2.41200000 GHz
Start Freq 2.39200000 GHz
Stop Freq 2.43200000 GHz
CF Step 4.000000 MHz Auto Man
Freq Offset 0 Hz

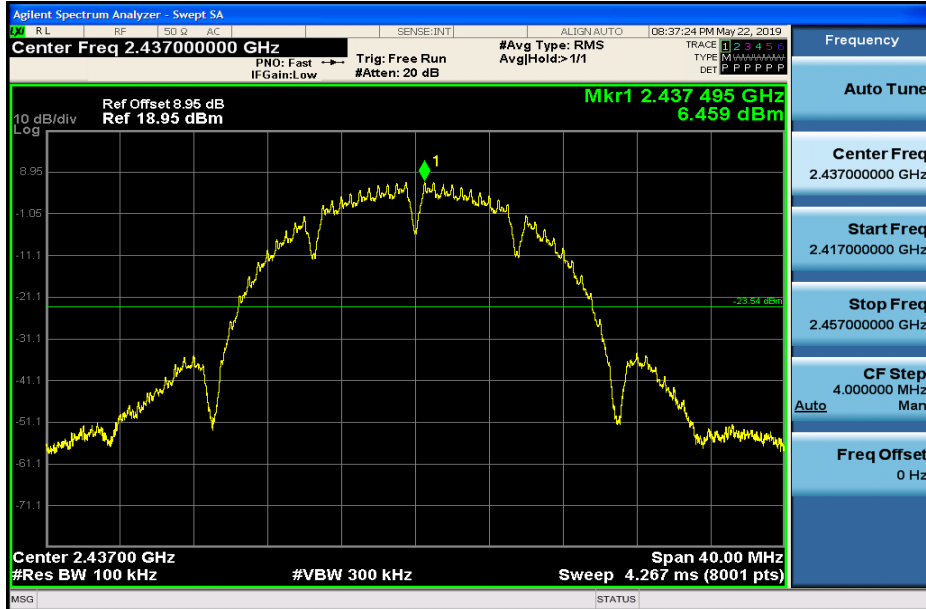


Frequency
Auto Tune
Center Freq 5.01500000 GHz
Start Freq 30.000000 MHz
Stop Freq 10.00000000 GHz
CF Step 997.000000 MHz Auto Man
Freq Offset 0 Hz

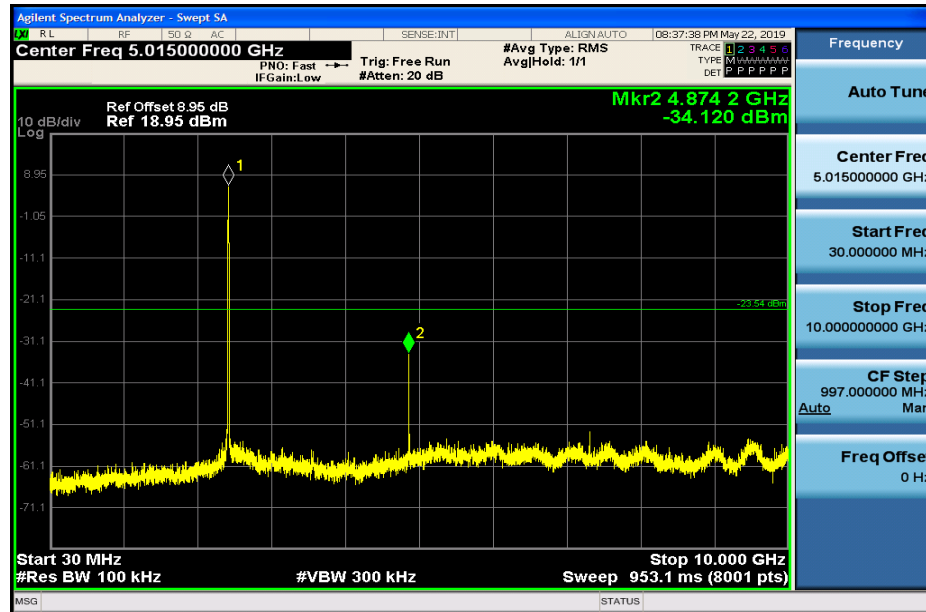


Frequency
Auto Tune
Center Freq 18.00000000 GHz
Start Freq 10.00000000 GHz
Stop Freq 26.00000000 GHz
CF Step 1.60000000 GHz Auto Man
Freq Offset 0 Hz

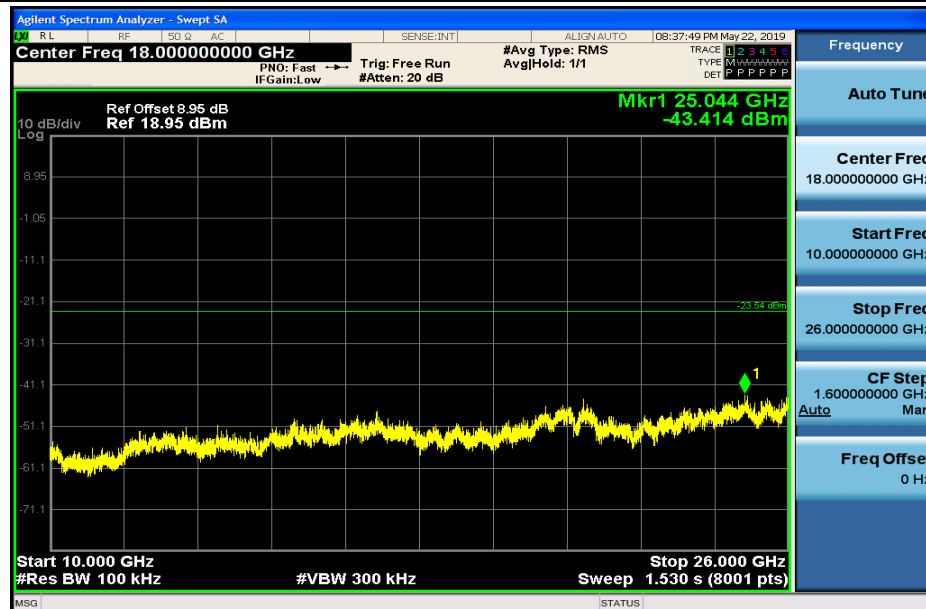
RF Conducted Spurious Emissions_11B_2437



Frequency	
Auto Tune	
Center Freq	2.43700000 GHz
Start Freq	2.41700000 GHz
Stop Freq	2.45700000 GHz
CF Step	4.000000 MHz
Auto	Man
Freq Offset	0 Hz



Frequency	
Auto Tune	
Center Freq	5.01500000 GHz
Start Freq	30.000000 MHz
Stop Freq	10.00000000 GHz
CF Step	997.000000 MHz
Auto	Man
Freq Offset	0 Hz

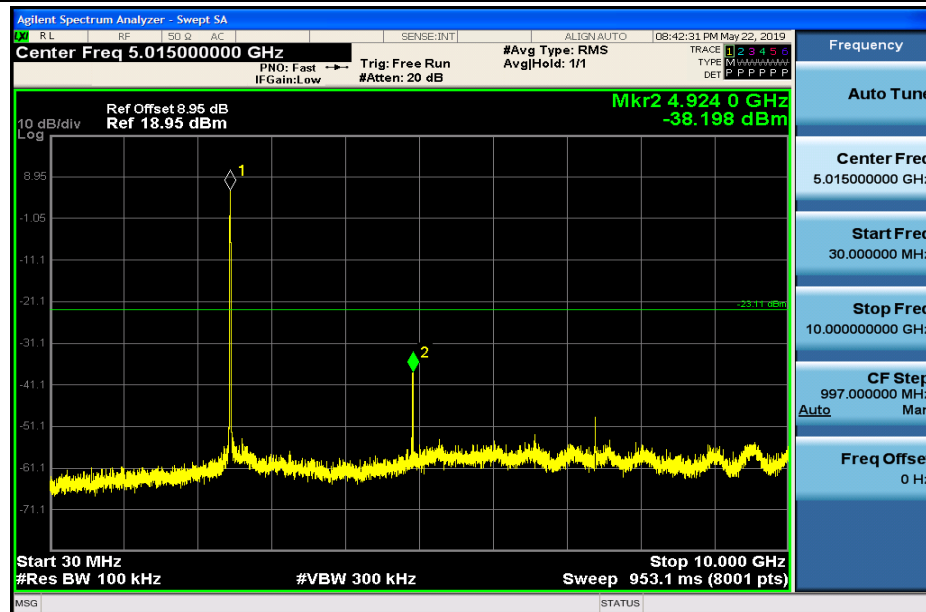


Frequency	
Auto Tune	
Center Freq	18.00000000 GHz
Start Freq	10.00000000 GHz
Stop Freq	26.00000000 GHz
CF Step	1.600000000 GHz
Auto	Man
Freq Offset	0 Hz

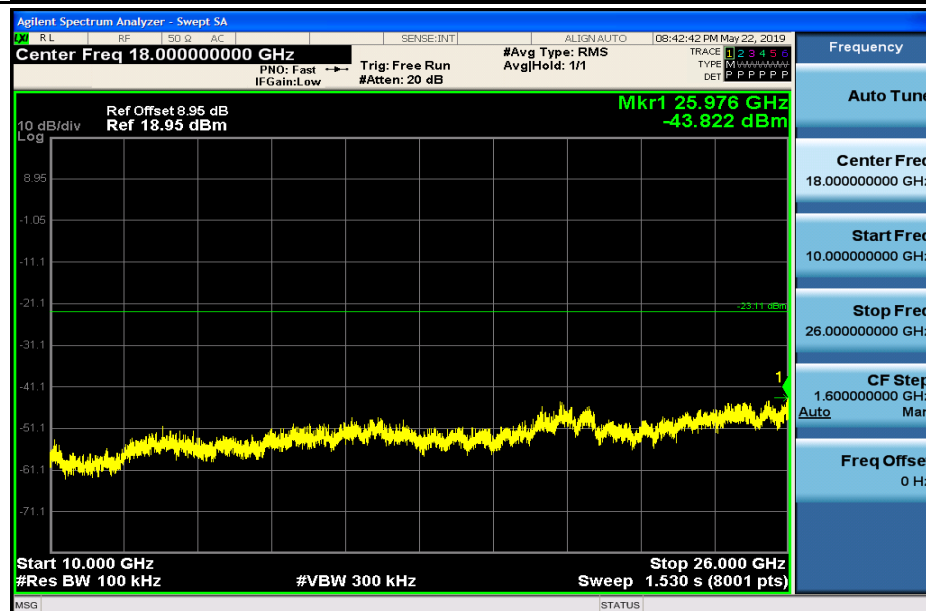
RF Conducted Spurious Emissions_11B_2462



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

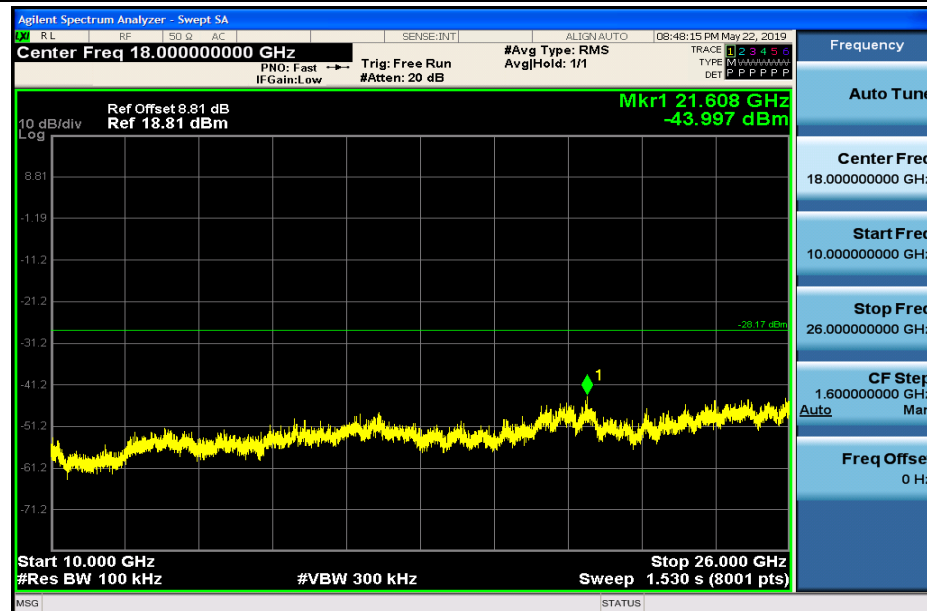
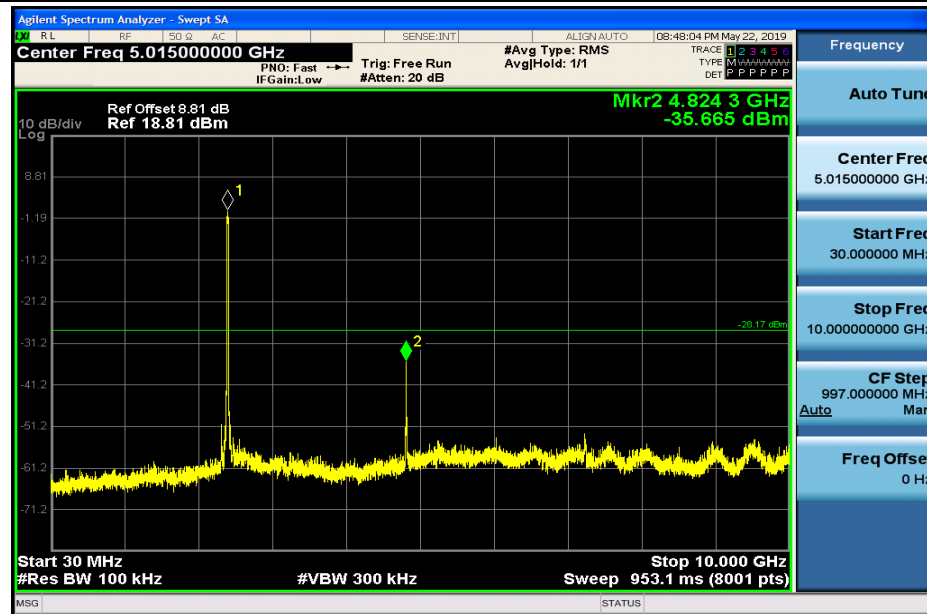
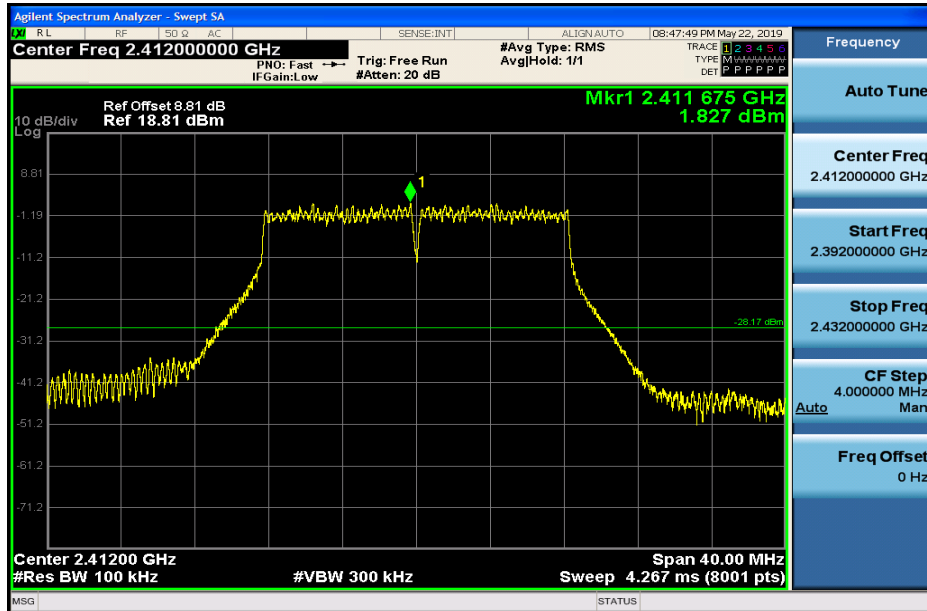


Frequency
Auto Tune
Center Freq 5.01500000 GHz
Start Freq 30.000000 MHz
Stop Freq 10.00000000 GHz
CF Step 997.000000 MHz Auto Man
Freq Offset 0 Hz

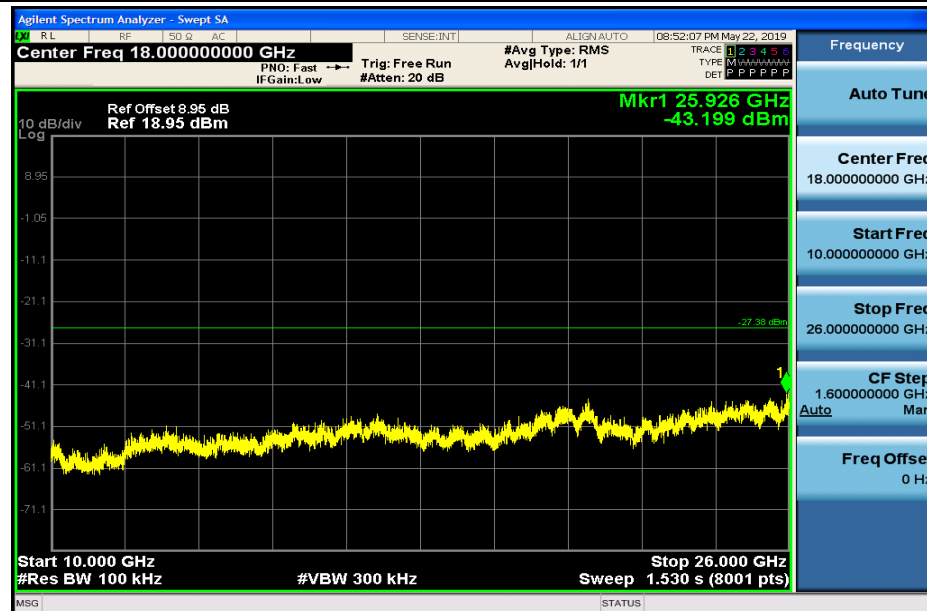
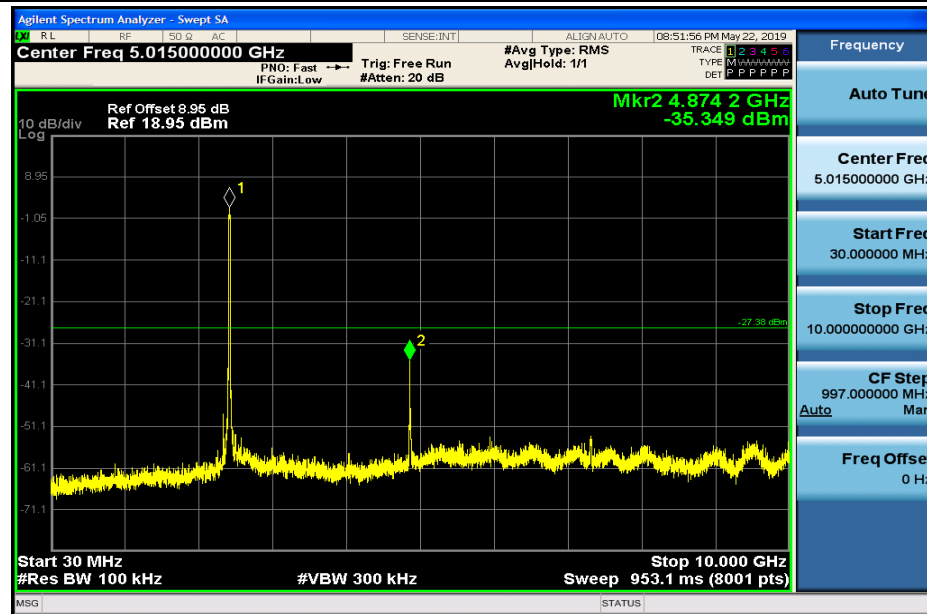
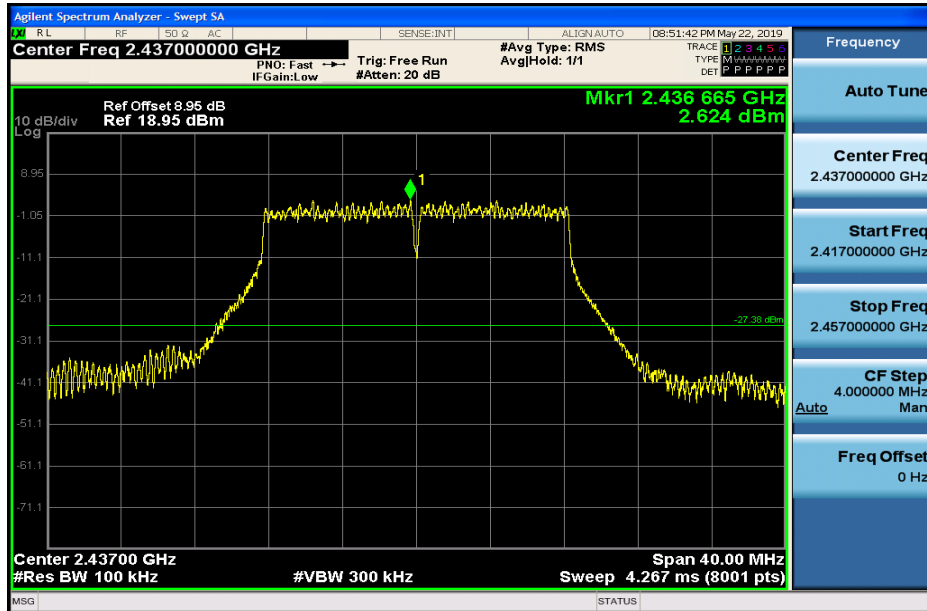


Frequency
Auto Tune
Center Freq 18.00000000 GHz
Start Freq 10.00000000 GHz
Stop Freq 26.00000000 GHz
CF Step 1.600000000 GHz Auto Man
Freq Offset 0 Hz

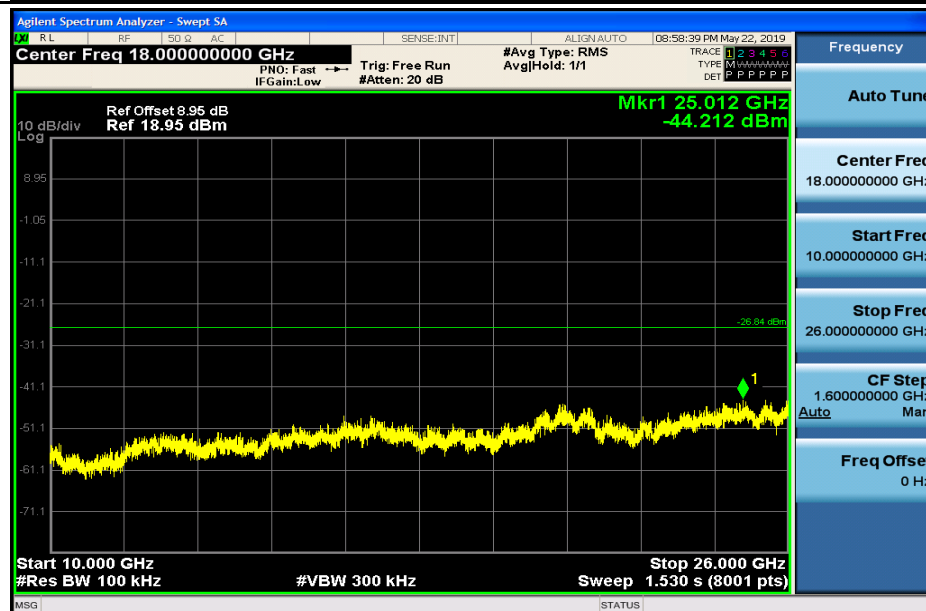
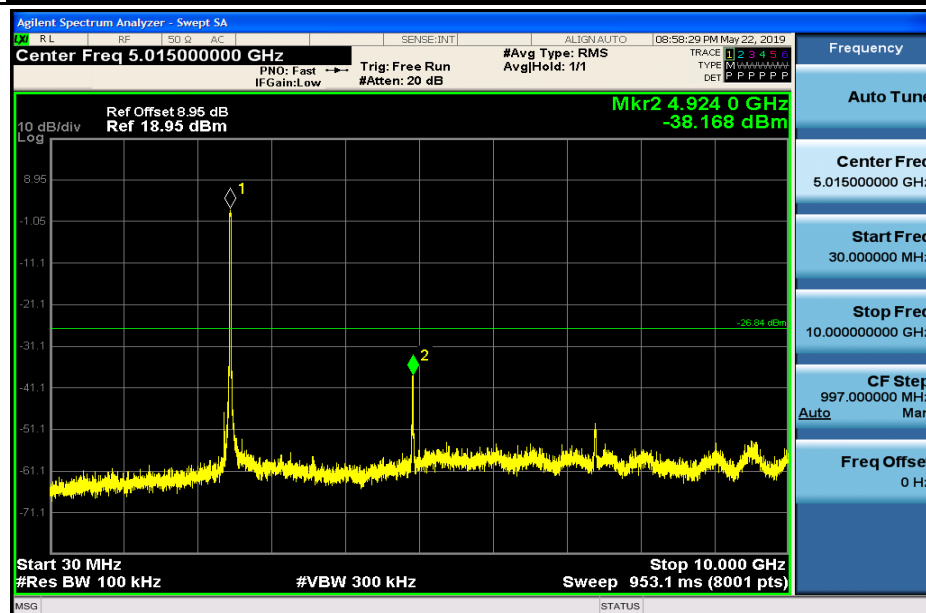
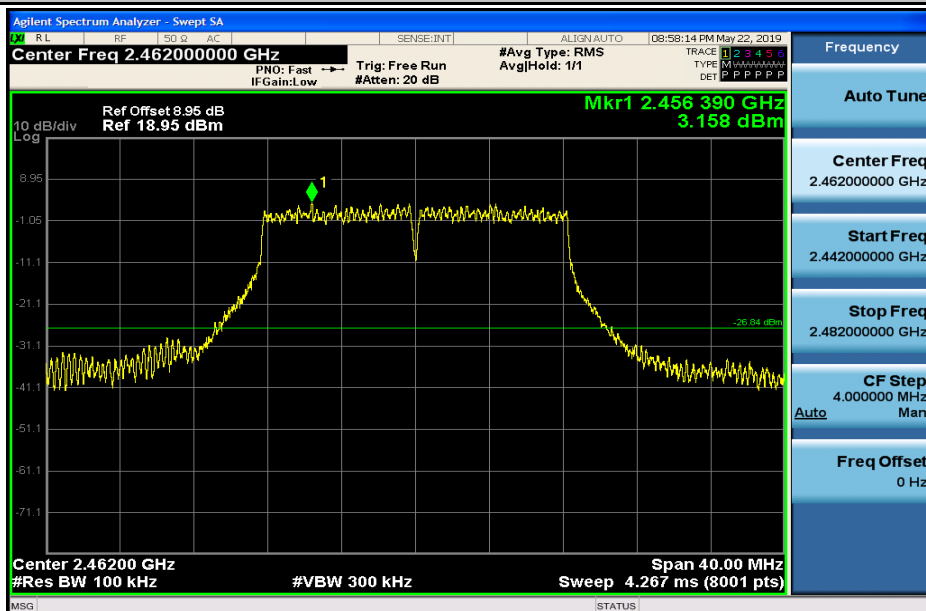
RF Conducted Spurious Emissions_11G_2412



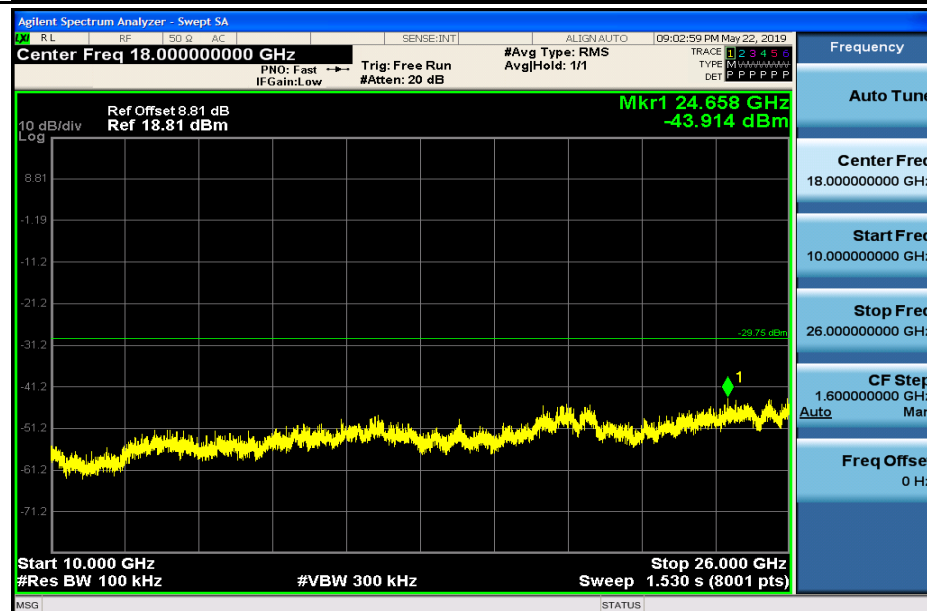
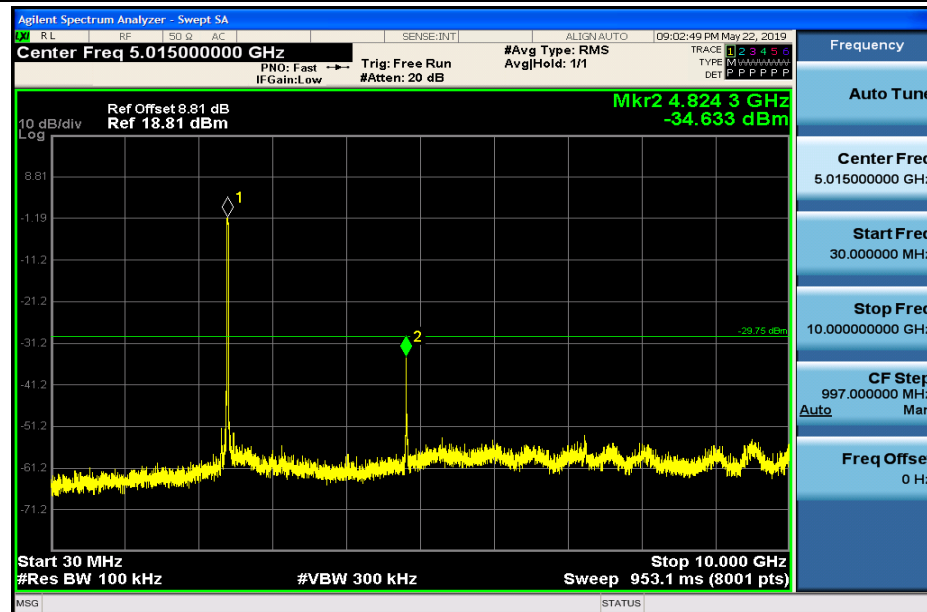
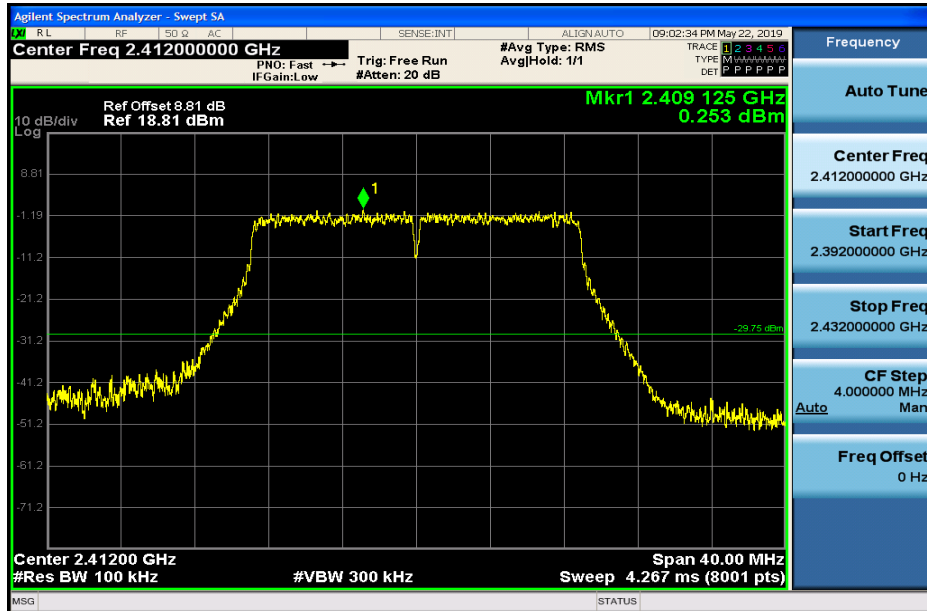
RF Conducted Spurious Emissions_11G_2437



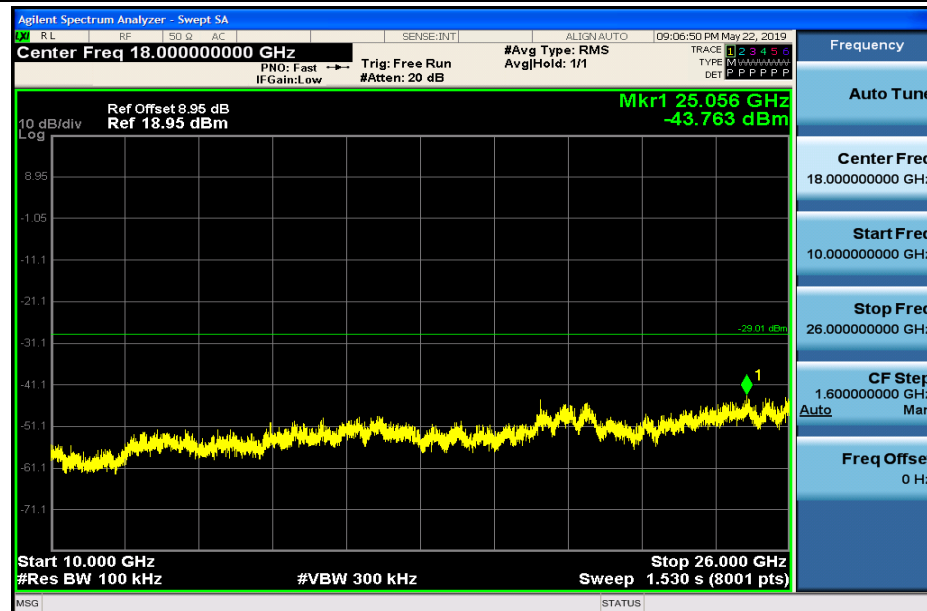
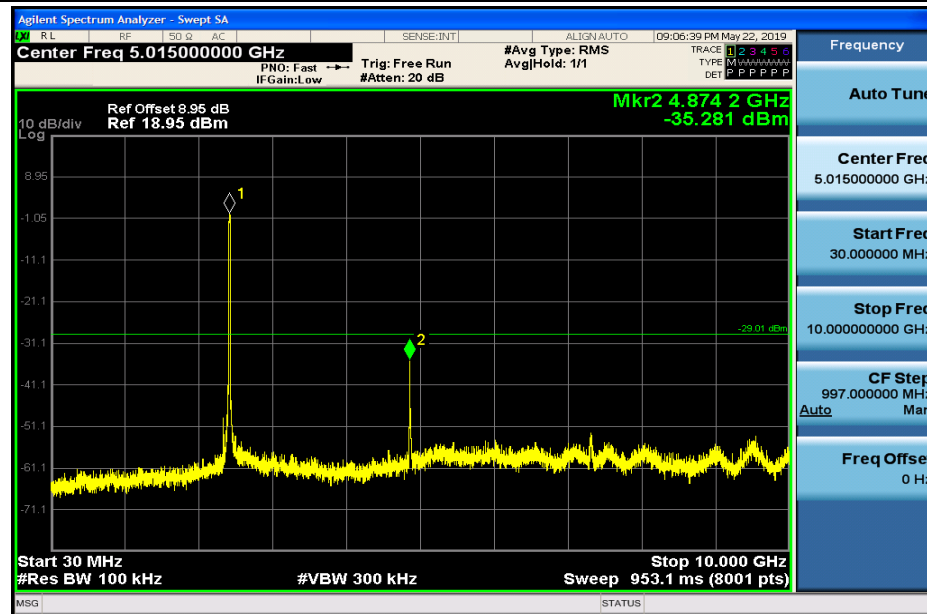
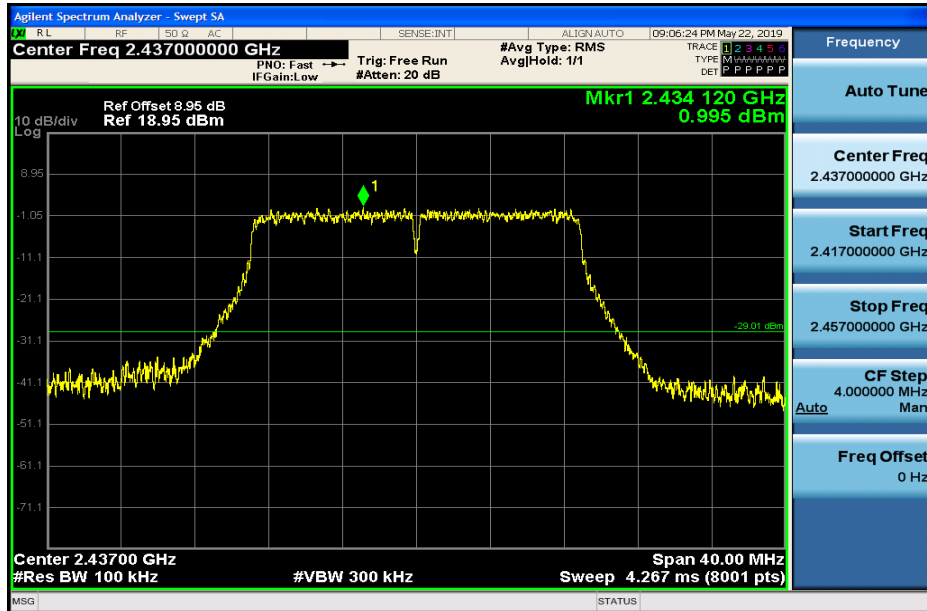
RF Conducted Spurious Emissions_11G_2462



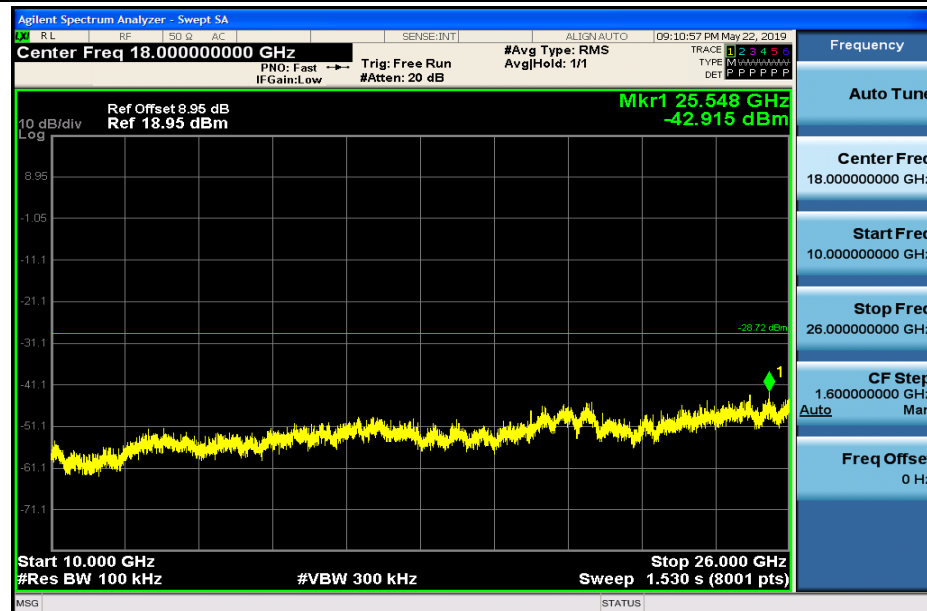
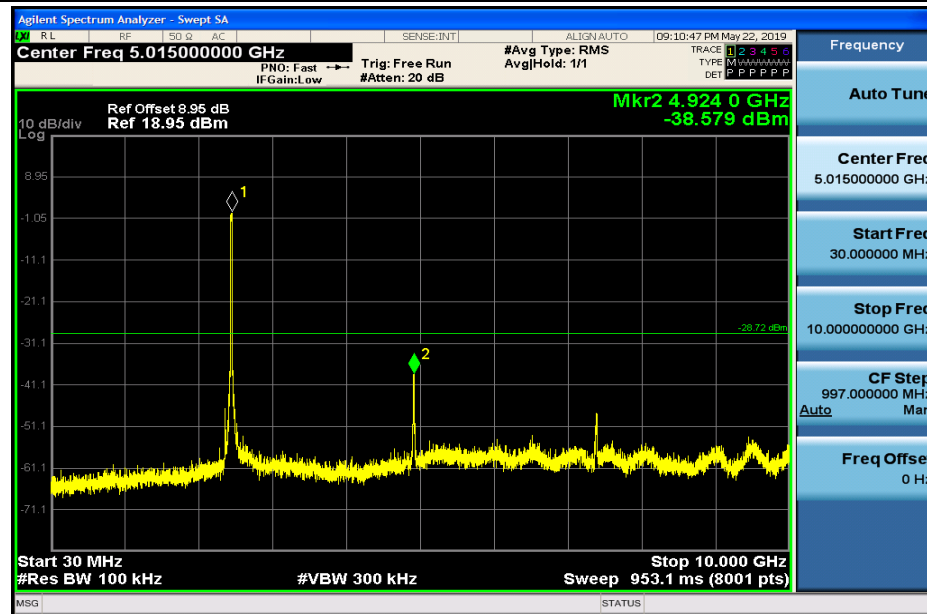
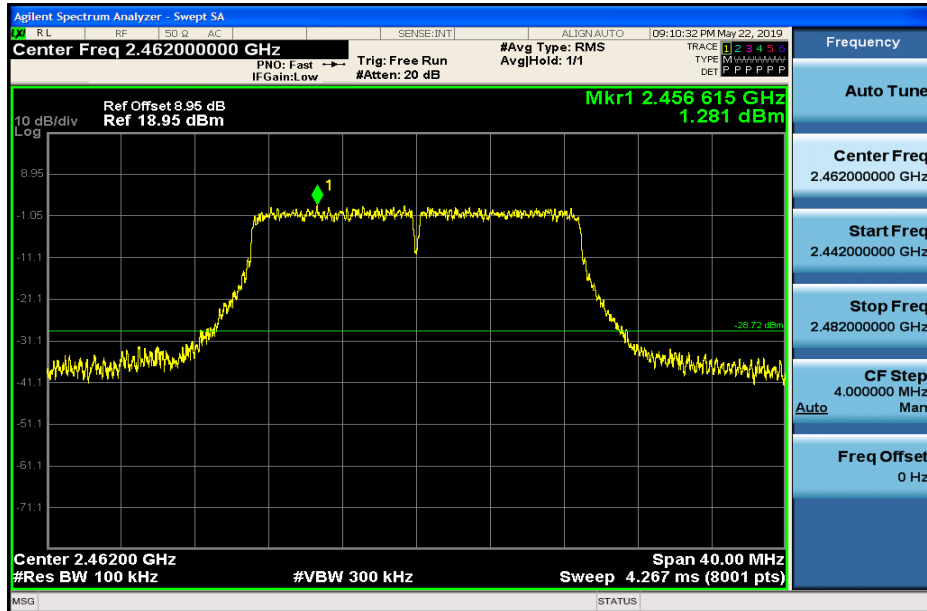
RF Conducted Spurious Emissions_11N20SISO_2412



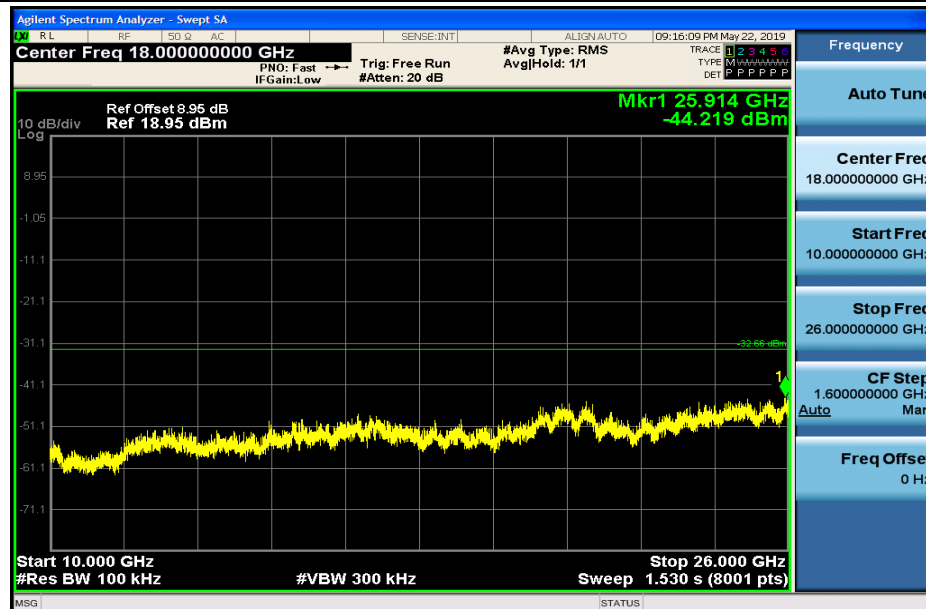
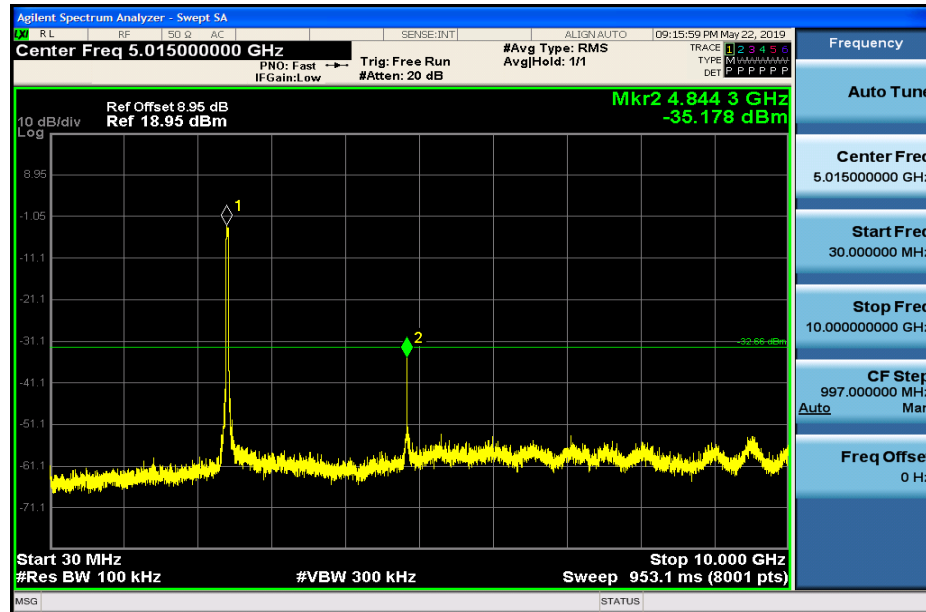
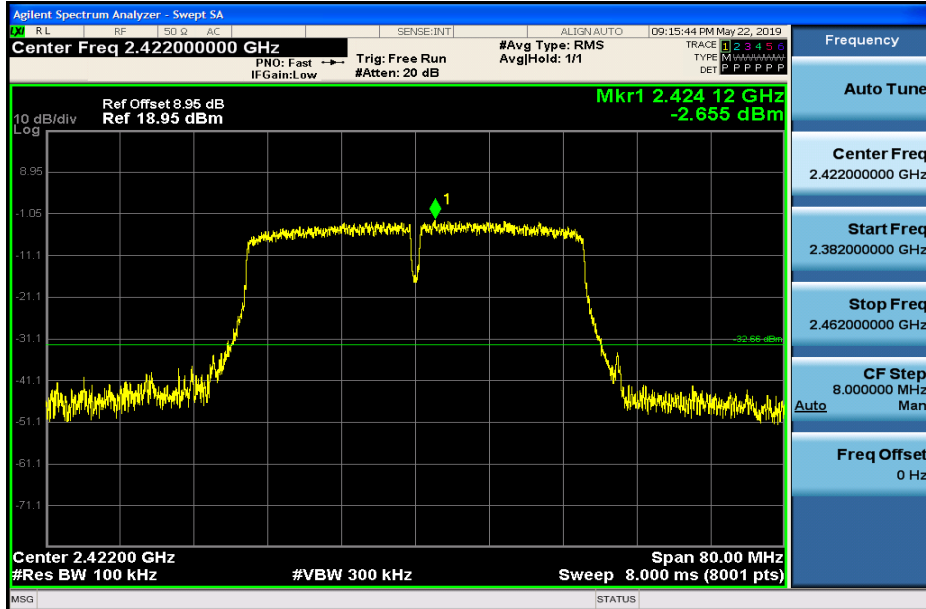
RF Conducted Spurious Emissions_11N20SISO_2437



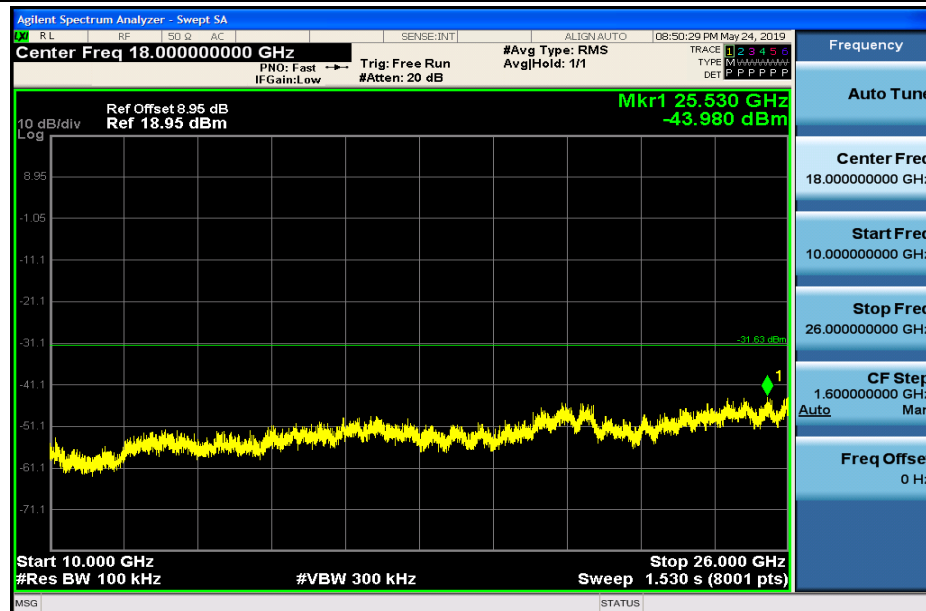
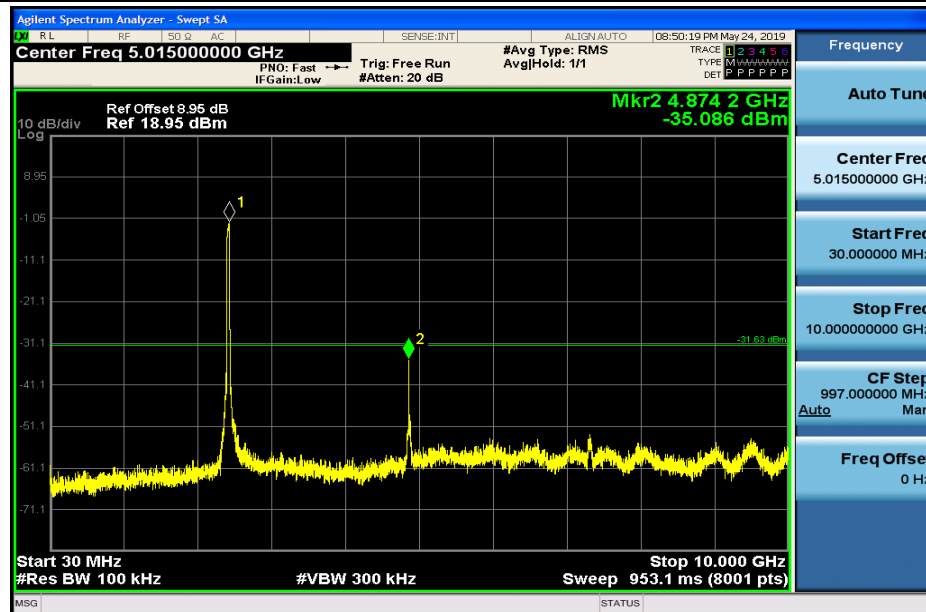
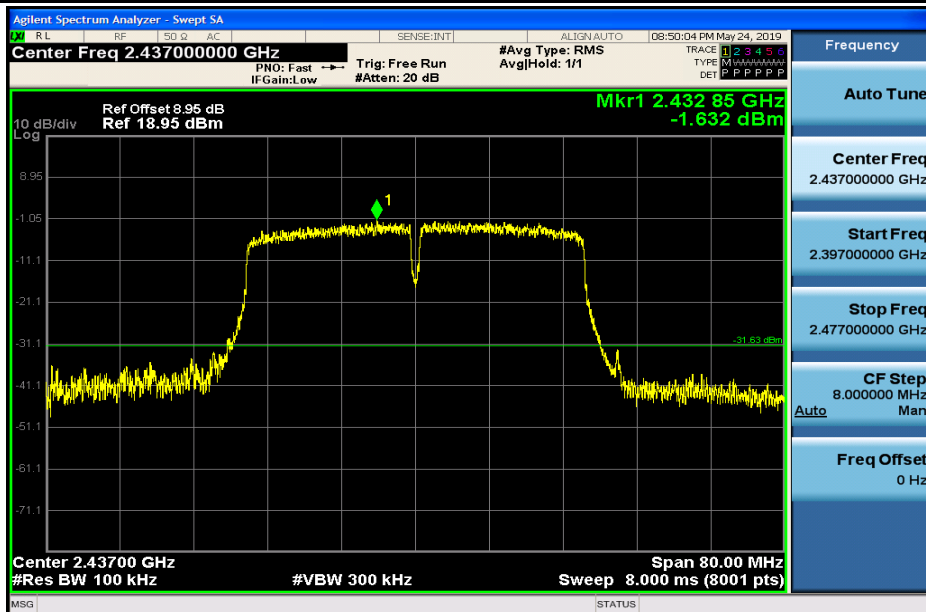
RF Conducted Spurious Emissions_11N20SISO_2462



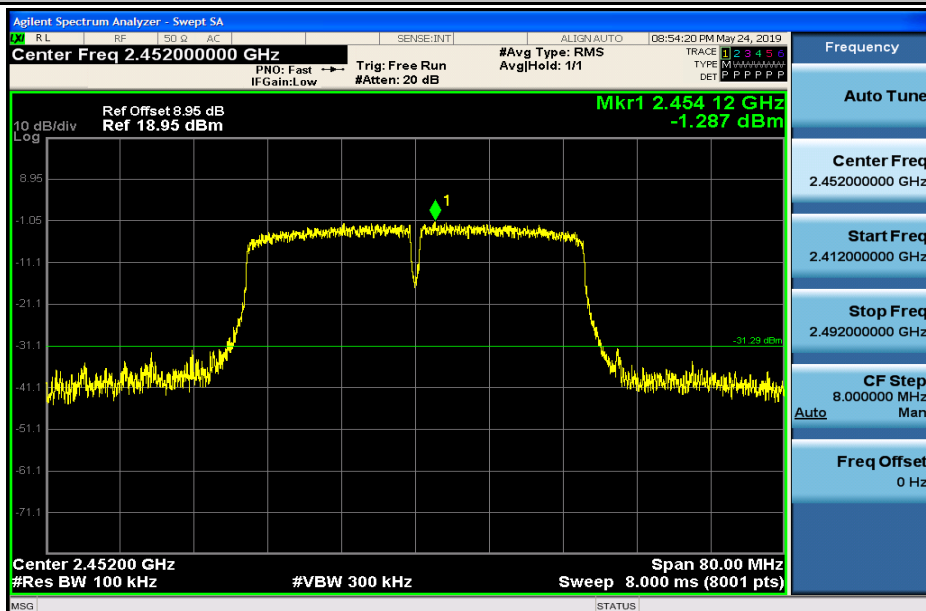
RF Conducted Spurious Emissions_11N40SISO_2422



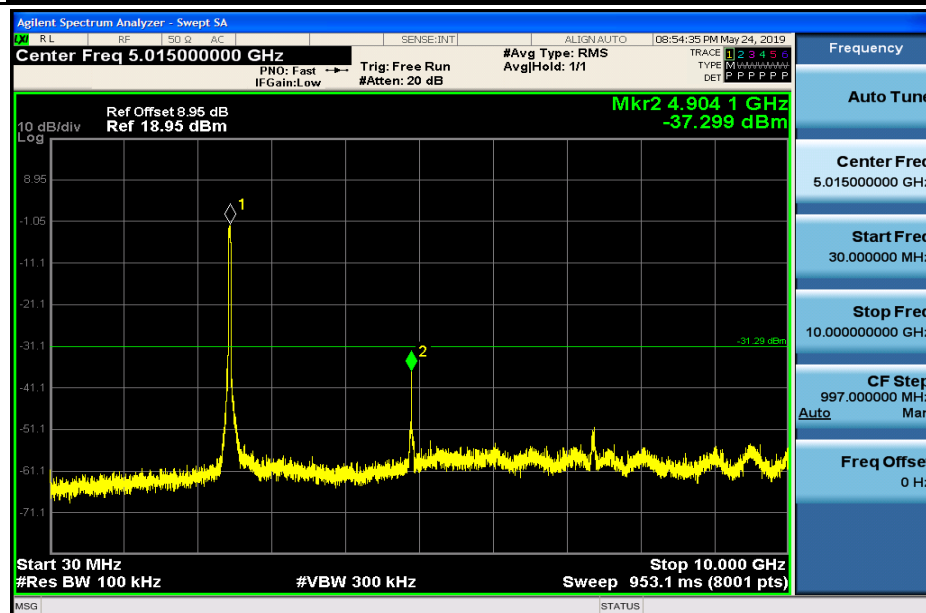
RF Conducted Spurious Emissions_11N40SISO_2437



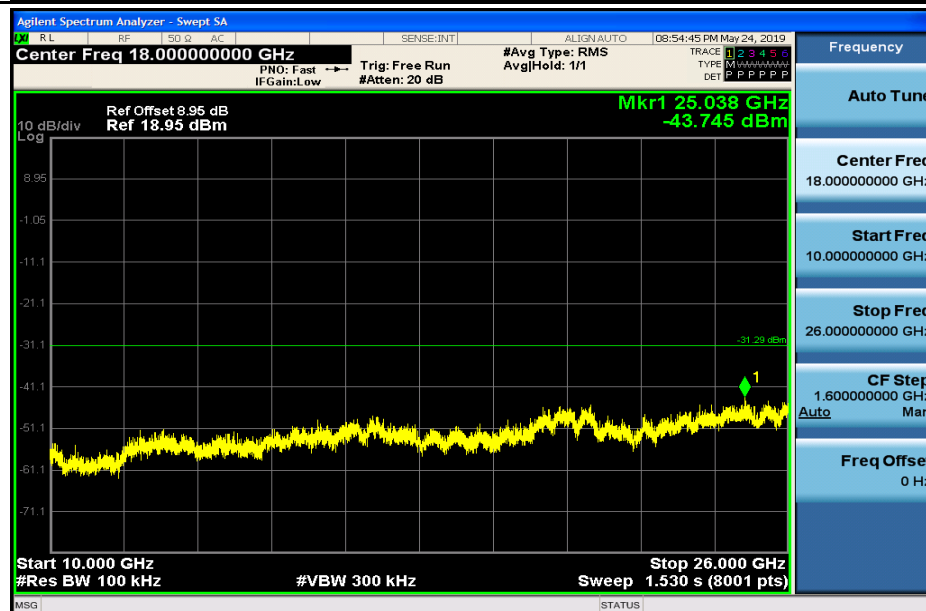
RF Conducted Spurious Emissions_11N40SISO_2452



Frequency	
Auto Tune	
Center Freq	2.45200000 GHz
Start Freq	2.41200000 GHz
Stop Freq	2.49200000 GHz
CF Step	8.000000 MHz
Auto	Man
Freq Offset	0 Hz



Frequency	
Auto Tune	
Center Freq	5.01500000 GHz
Start Freq	30.000000 MHz
Stop Freq	10.00000000 GHz
CF Step	997.000000 MHz
Auto	Man
Freq Offset	0 Hz

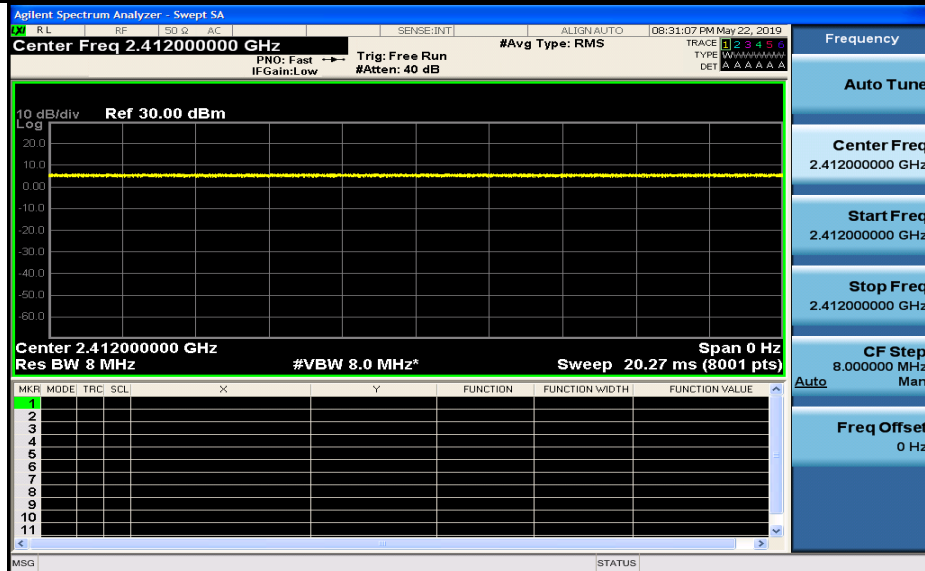


Frequency	
Auto Tune	
Center Freq	18.00000000 GHz
Start Freq	10.00000000 GHz
Stop Freq	26.00000000 GHz
CF Step	1.60000000 GHz
Auto	Man
Freq Offset	0 Hz

7.Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	10log(1/x) Factor[dB]
11B	2412	Ant1	100.00	0.00
11B	2437	Ant1	100.00	0.00
11B	2462	Ant1	100.00	0.00
11G	2412	Ant1	100.00	0.00
11G	2437	Ant1	100.00	0.00
11G	2462	Ant1	100.00	0.00
11N20SISO	2412	Ant1	100.00	0.00
11N20SISO	2437	Ant1	100.00	0.00
11N20SISO	2462	Ant1	100.00	0.00
11N40SISO	2422	Ant1	100.00	0.00
11N40SISO	2437	Ant1	100.00	0.00
11N40SISO	2452	Ant1	100.00	0.00

Duty Cycle_11B_2412_Ant1



Frequency

Auto Tune

Center Freq
2.412000000 GHz

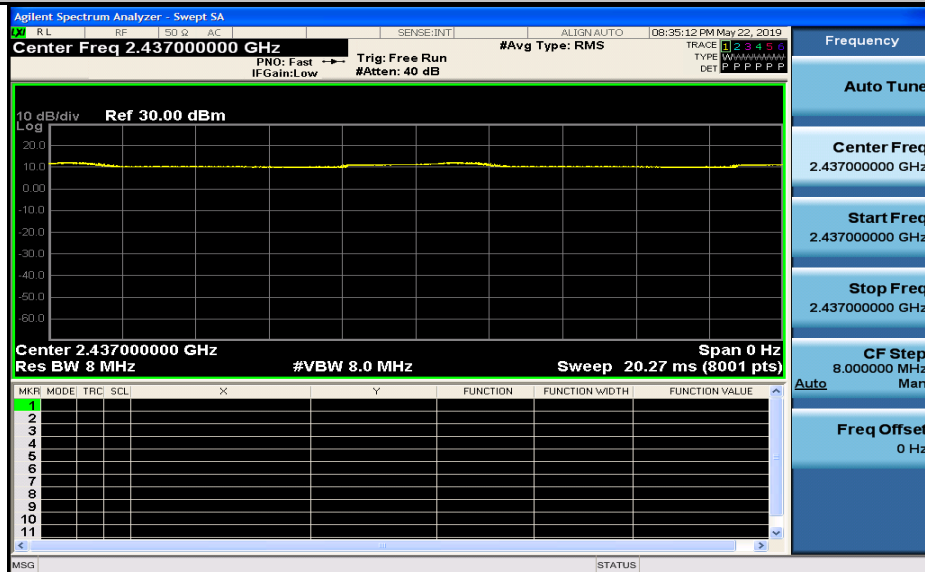
Start Freq
2.412000000 GHz

Stop Freq
2.412000000 GHz

CF Step
8.000000 MHz

Freq Offset
0 Hz

Duty Cycle_11B_2437_Ant1



Frequency

Auto Tune

Center Freq
2.437000000 GHz

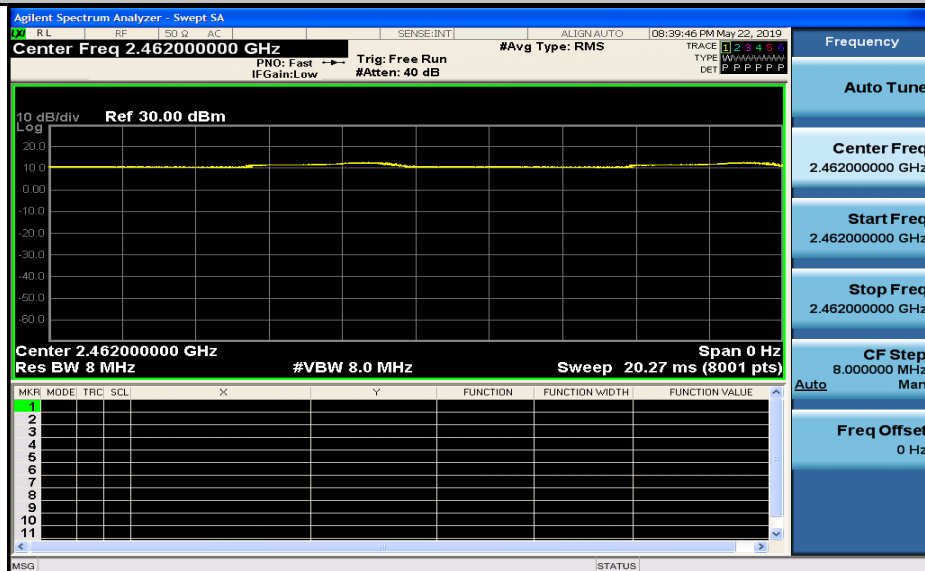
Start Freq
2.437000000 GHz

Stop Freq
2.437000000 GHz

CF Step
8.000000 MHz

Freq Offset
0 Hz

Duty Cycle_11B_2462_Ant1



Frequency

Auto Tune

Center Freq
2.462000000 GHz

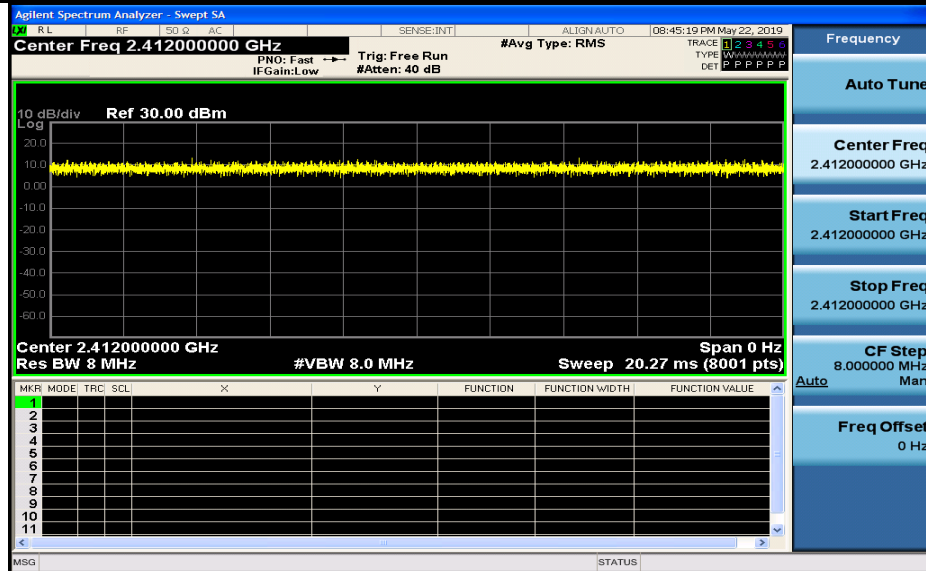
Start Freq
2.462000000 GHz

Stop Freq
2.462000000 GHz

CF Step
8.000000 MHz

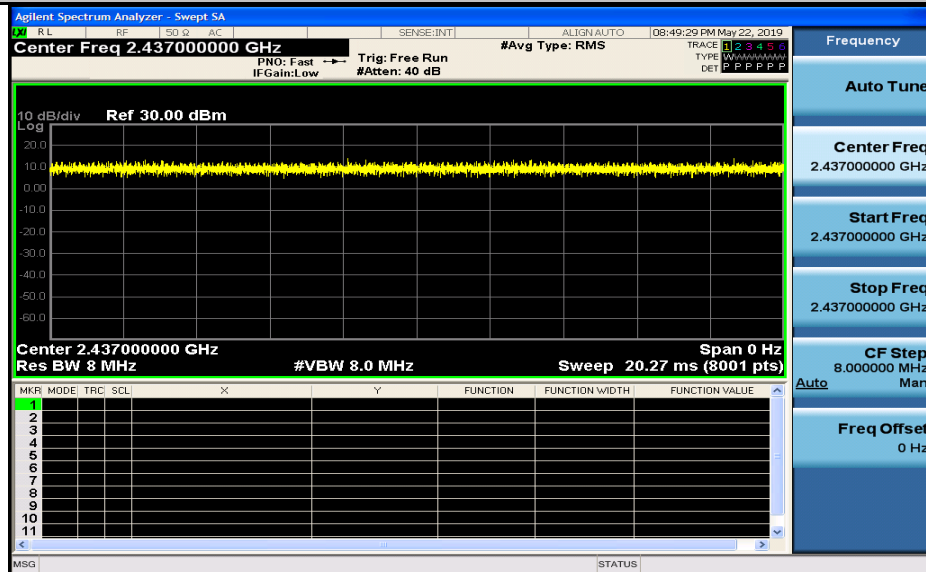
Freq Offset
0 Hz

Duty Cycle_11G_2412_Ant1



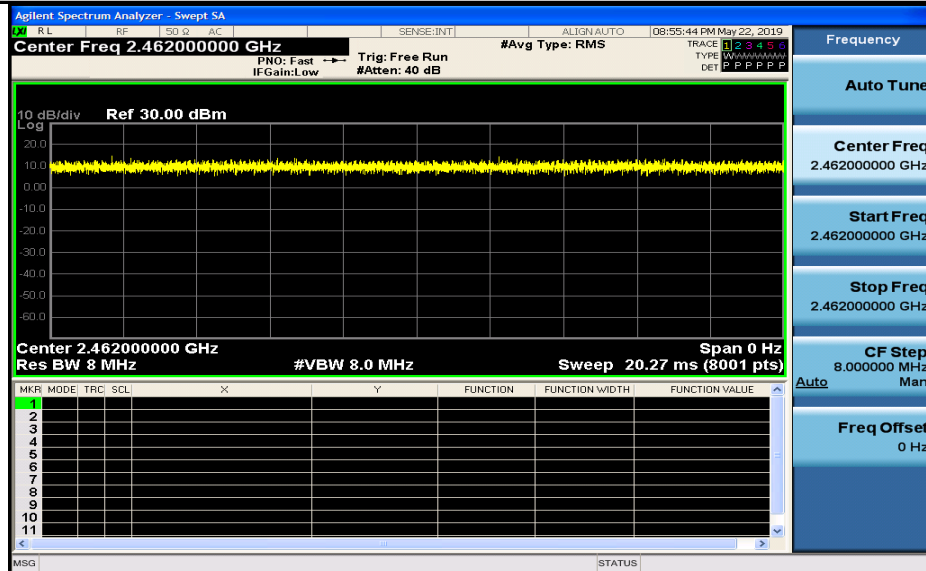
Frequency
Auto Tune
Center Freq 2.412000000 GHz
Start Freq 2.412000000 GHz
Stop Freq 2.412000000 GHz
CF Step 8.000000 MHz
Auto Man
Freq Offset 0 Hz

Duty Cycle_11G_2437_Ant1



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

Duty Cycle_11G_2462_Ant1



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

Duty Cycle_11N20SISO_2412_Ant1

Agilent Spectrum Analyzer - Swept SA
 Center Freq 2.412000000 GHz
 Ref 30.00 dBm
 #Avg Type: RMS
 Trig: Free Run
 #Atten: 40 dB
 PNO: Fast IFGain:Low
 Span 0 Hz
 Res BW 8 MHz #VBW 8.0 MHz Sweep 20.27 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

Frequency

- Auto Tune
- Center Freq 2.412000000 GHz
- Start Freq 2.412000000 GHz
- Stop Freq 2.412000000 GHz
- CF Step 8.000000 MHz
- Freq Offset 0 Hz

Duty Cycle_11N20SISO_2437_Ant1

Agilent Spectrum Analyzer - Swept SA
 Center Freq 2.437000000 GHz
 Ref 30.00 dBm
 #Avg Type: RMS
 Trig: Free Run
 #Atten: 40 dB
 PNO: Fast IFGain:Low
 Span 0 Hz
 Res BW 8 MHz #VBW 8.0 MHz Sweep 20.27 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

Frequency

- Auto Tune
- Center Freq 2.437000000 GHz
- Start Freq 2.437000000 GHz
- Stop Freq 2.437000000 GHz
- CF Step 8.000000 MHz
- Freq Offset 0 Hz

Duty Cycle_11N20SISO_2462_Ant1

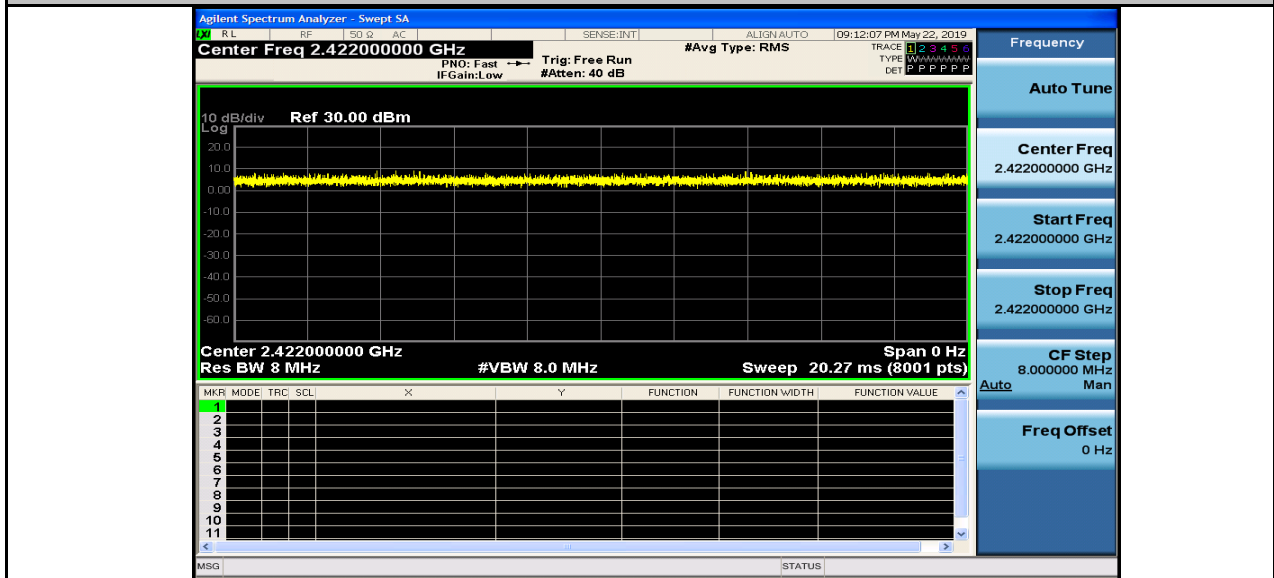
Agilent Spectrum Analyzer - Swept SA
 Center Freq 2.462000000 GHz
 Ref 30.00 dBm
 #Avg Type: RMS
 Trig: Free Run
 #Atten: 40 dB
 PNO: Fast IFGain:Low
 Span 0 Hz
 Res BW 8 MHz #VBW 8.0 MHz Sweep 20.27 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

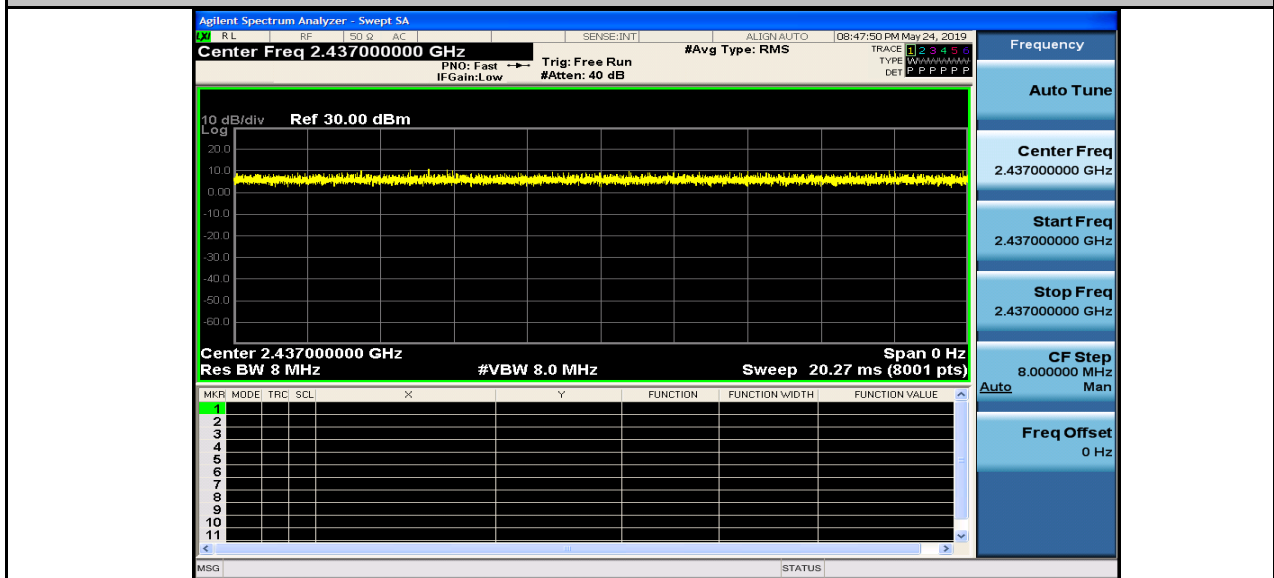
Frequency

- Auto Tune
- Center Freq 2.462000000 GHz
- Start Freq 2.462000000 GHz
- Stop Freq 2.462000000 GHz
- CF Step 8.000000 MHz
- Freq Offset 0 Hz

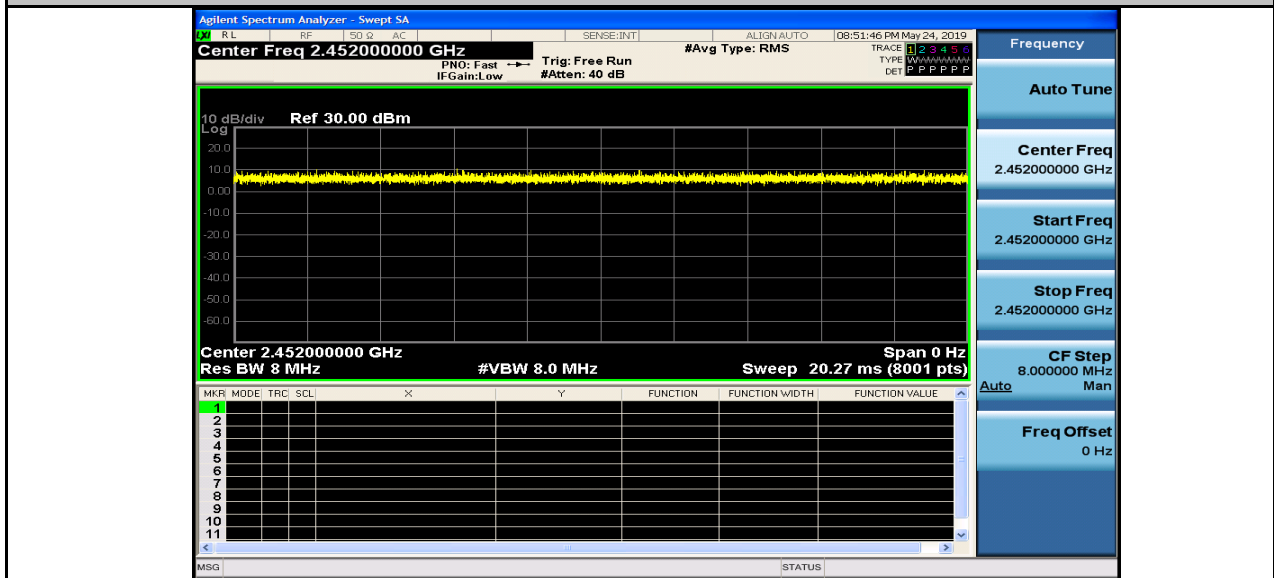
Duty Cycle_11N40SISO_2422_Ant1



Duty Cycle_11N40SISO_2437_Ant1



Duty Cycle_11N40SISO_2452_Ant1





**SGS-CSTC Standards Technical Services Co., Ltd. Shanghai
Branch**