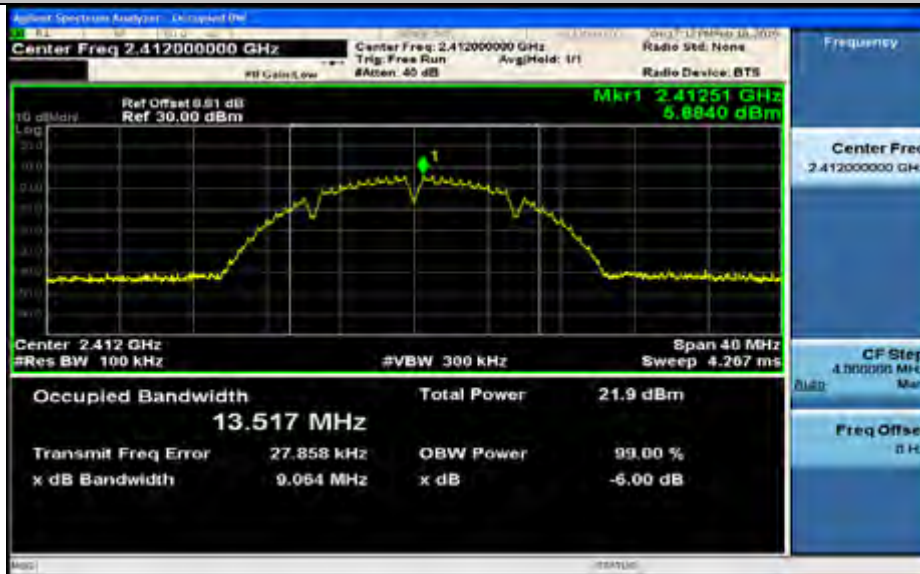


Appendix A for SHEM190201083701

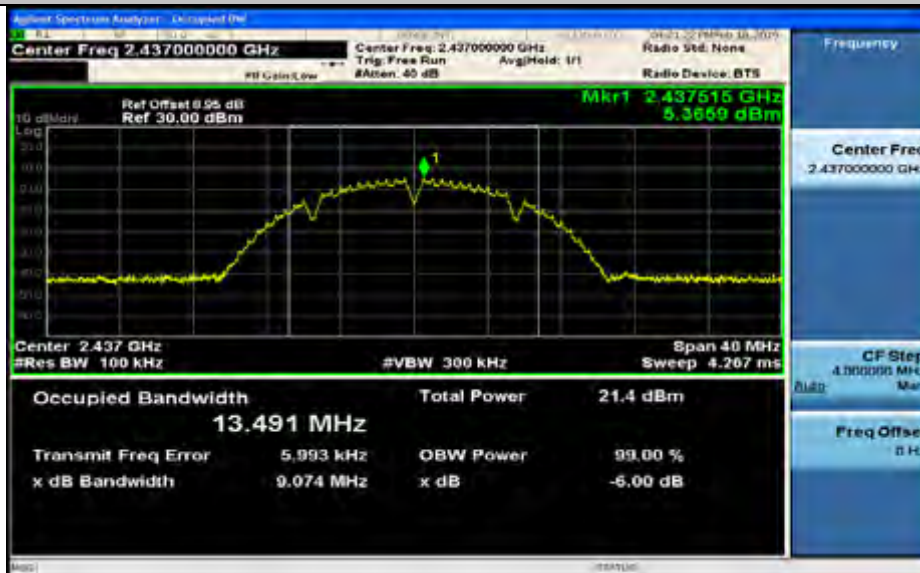
1.6dB Bandwidth

Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
11B	2412	Ant1	9.06	0.5	PASS
11B	2437	Ant1	9.07	0.5	PASS
11B	2462	Ant1	9.07	0.5	PASS
11G	2412	Ant1	16.53	0.5	PASS
11G	2437	Ant1	16.53	0.5	PASS
11G	2462	Ant1	16.53	0.5	PASS
11N20SISO	2412	Ant1	17.81	0.5	PASS
11N20SISO	2437	Ant1	17.77	0.5	PASS
11N20SISO	2462	Ant1	17.74	0.5	PASS
11N40SISO	2422	Ant1	36.51	0.5	PASS
11N40SISO	2437	Ant1	36.52	0.5	PASS
11N40SISO	2452	Ant1	36.48	0.5	PASS

6dB Bandwidth\_11B\_2412\_Ant1



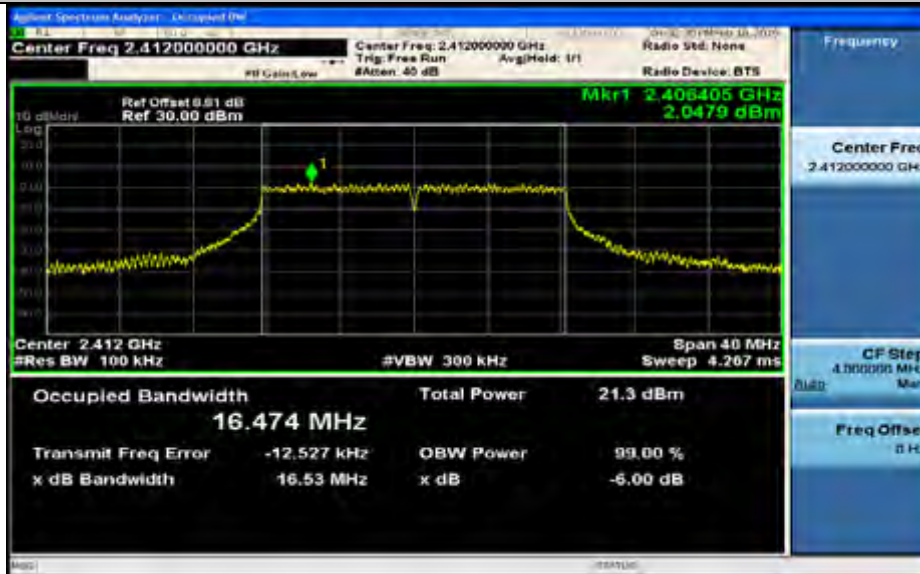
6dB Bandwidth\_11B\_2437\_Ant1



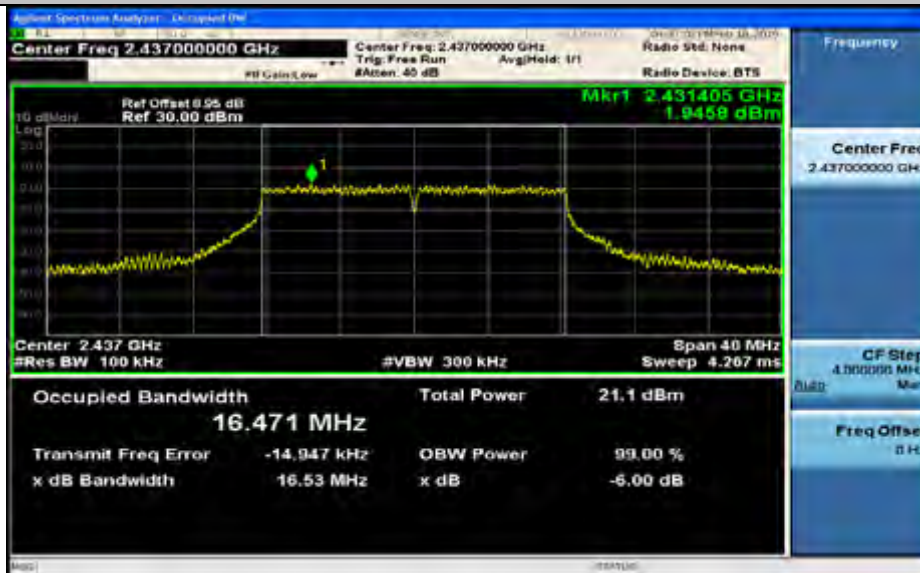
6dB Bandwidth\_11B\_2462\_Ant1



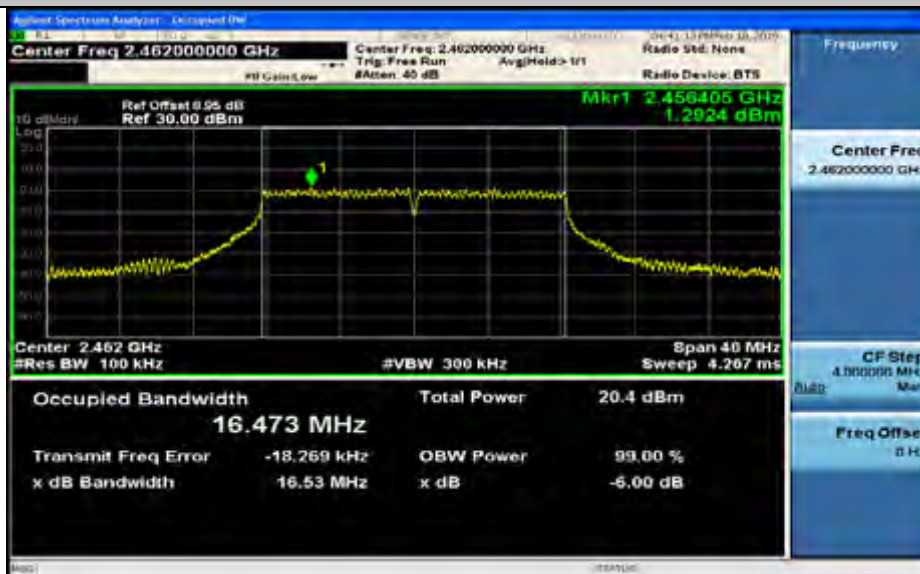
6dB Bandwidth\_11G\_2412\_Ant1



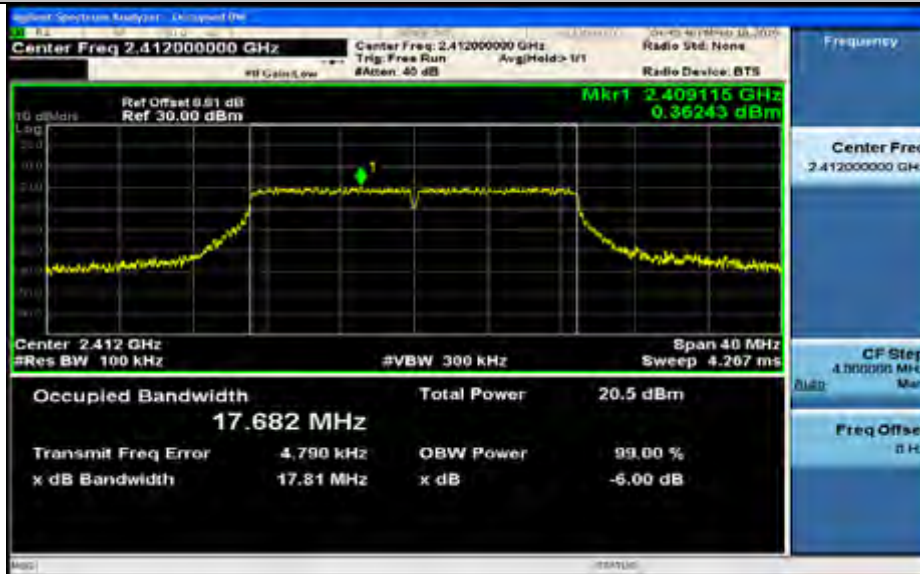
6dB Bandwidth\_11G\_2437\_Ant1



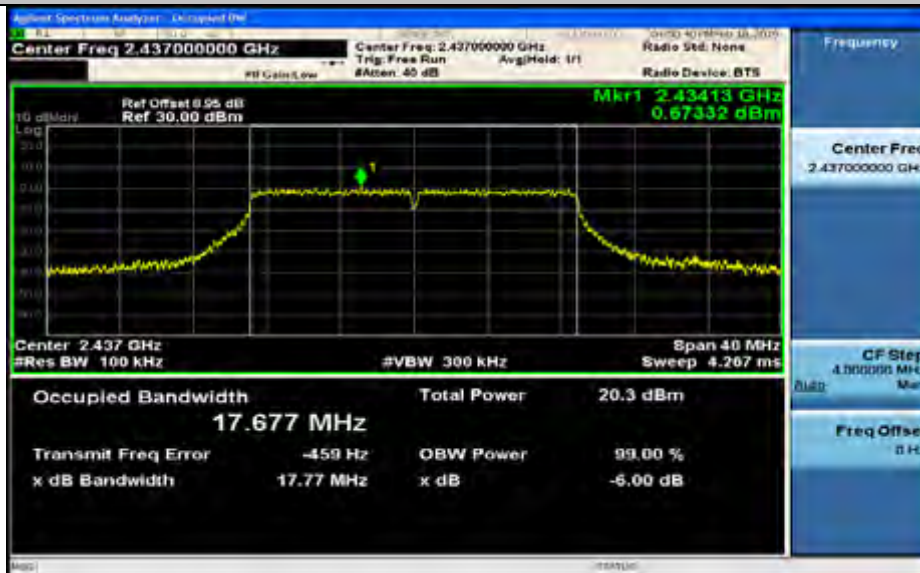
6dB Bandwidth\_11G\_2462\_Ant1



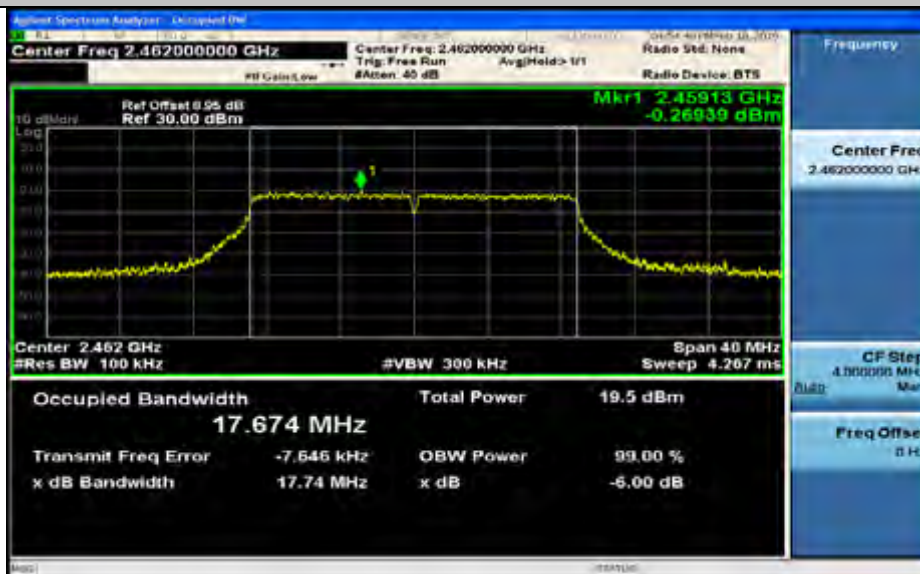
6dB Bandwidth\_11N20SISO\_2412\_Ant1



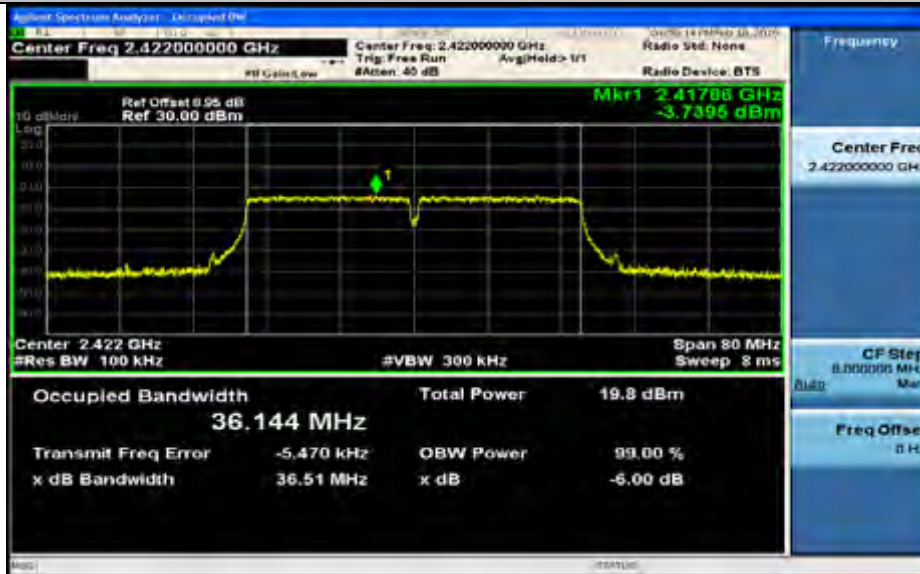
6dB Bandwidth\_11N20SISO\_2437\_Ant1



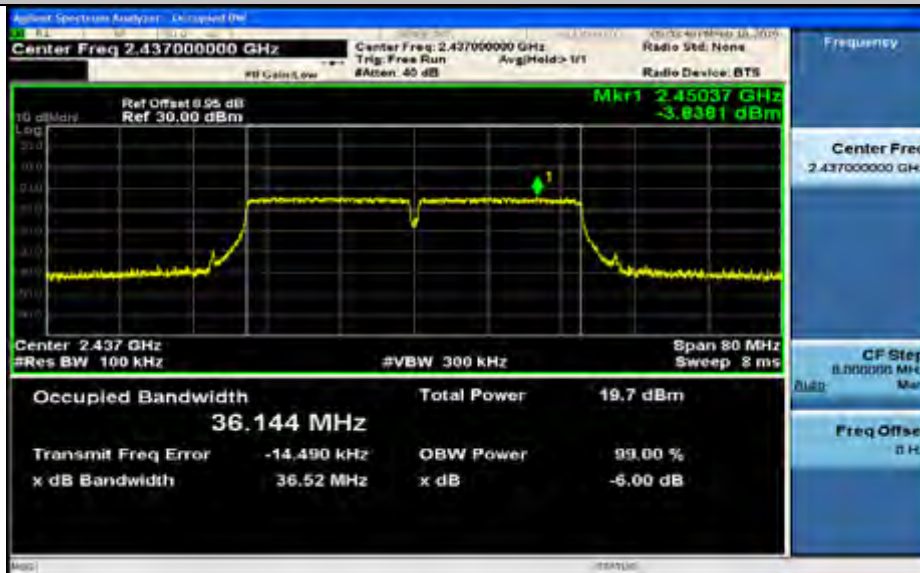
6dB Bandwidth\_11N20SISO\_2462\_Ant1



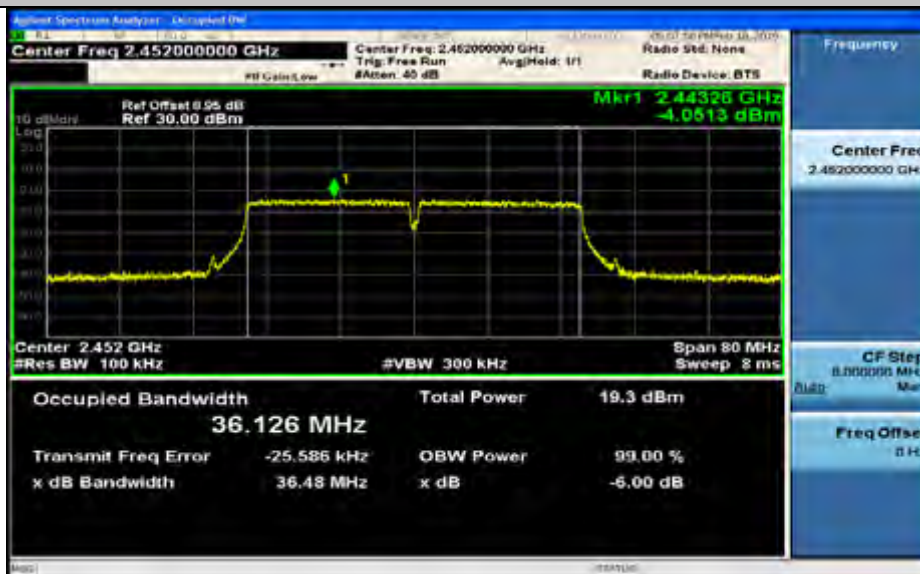
6dB Bandwidth\_11N40SISO\_2422\_Ant1



6dB Bandwidth\_11N40SISO\_2437\_Ant1



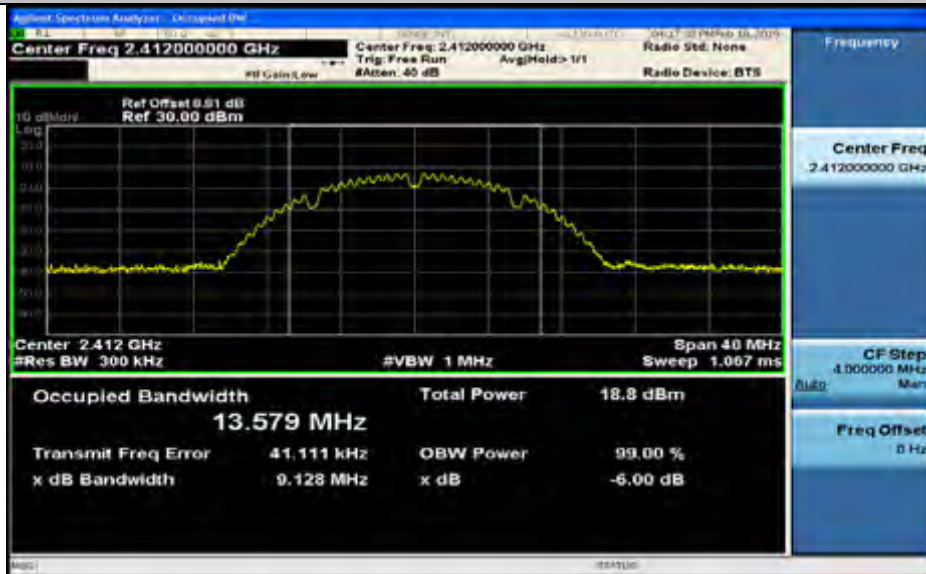
6dB Bandwidth\_11N40SISO\_2452\_Ant1



**2.Occupied Bandwidth**

Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
11B	2412	Ant1	13.58	---	PASS
11B	2437	Ant1	13.55	---	PASS
11B	2462	Ant1	13.55	---	PASS
11G	2412	Ant1	16.74	---	PASS
11G	2437	Ant1	16.75	---	PASS
11G	2462	Ant1	16.74	---	PASS
11N20SISO	2412	Ant1	17.93	---	PASS
11N20SISO	2437	Ant1	17.92	---	PASS
11N20SISO	2462	Ant1	17.91	---	PASS
11N40SISO	2422	Ant1	36.72	---	PASS
11N40SISO	2437	Ant1	36.71	---	PASS
11N40SISO	2452	Ant1	36.69	---	PASS

Occupied Bandwidth\_11B\_2412



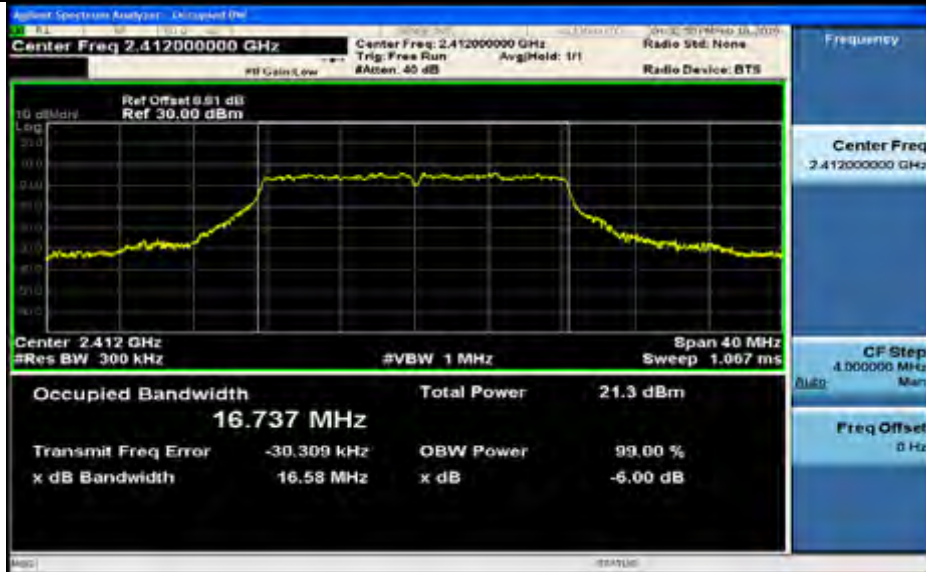
Occupied Bandwidth\_11B\_2437



Occupied Bandwidth\_11B\_2462



Occupied Bandwidth\_11G\_2412



Occupied Bandwidth\_11G\_2437

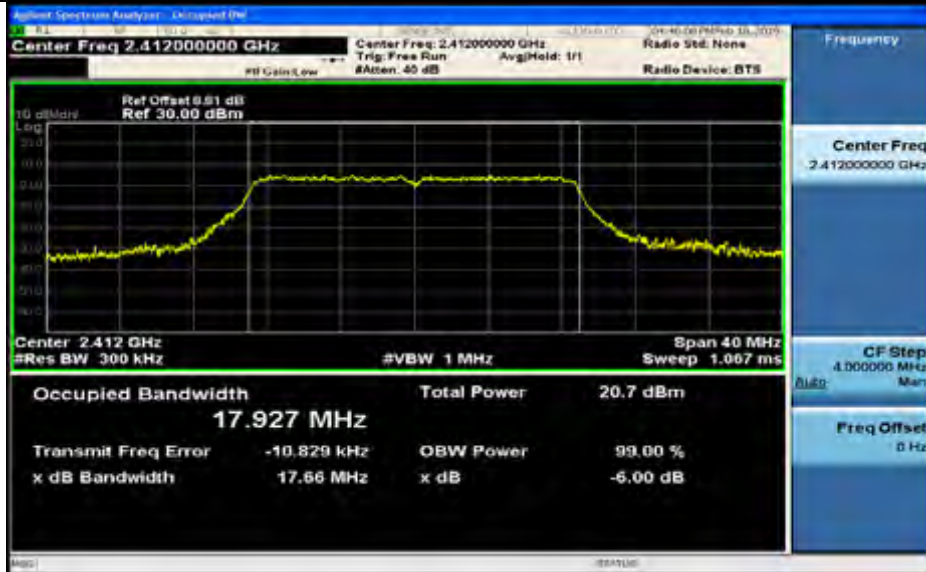


Occupied Bandwidth\_11G\_2462

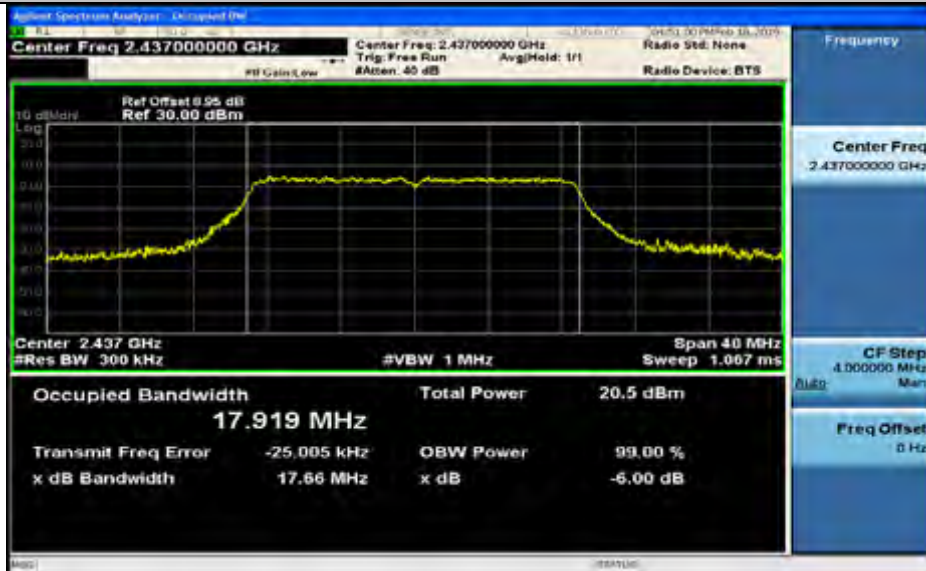




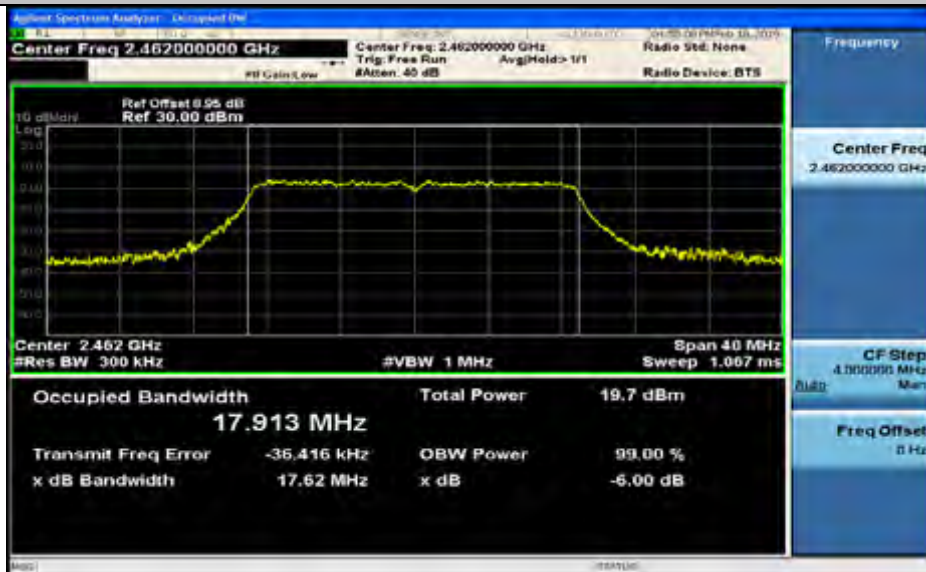
Occupied Bandwidth\_11N20SISO\_2412



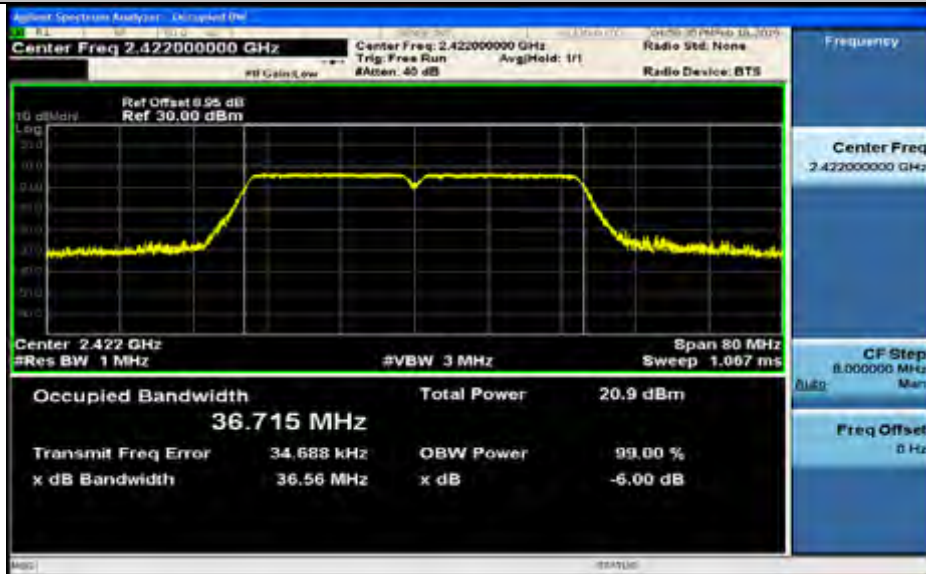
Occupied Bandwidth\_11N20SISO\_2437



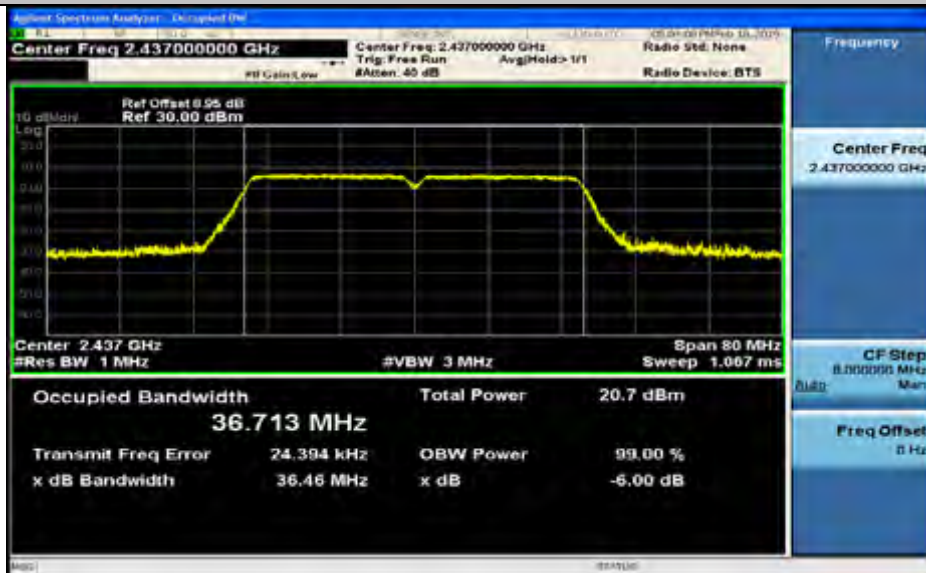
Occupied Bandwidth\_11N20SISO\_2462



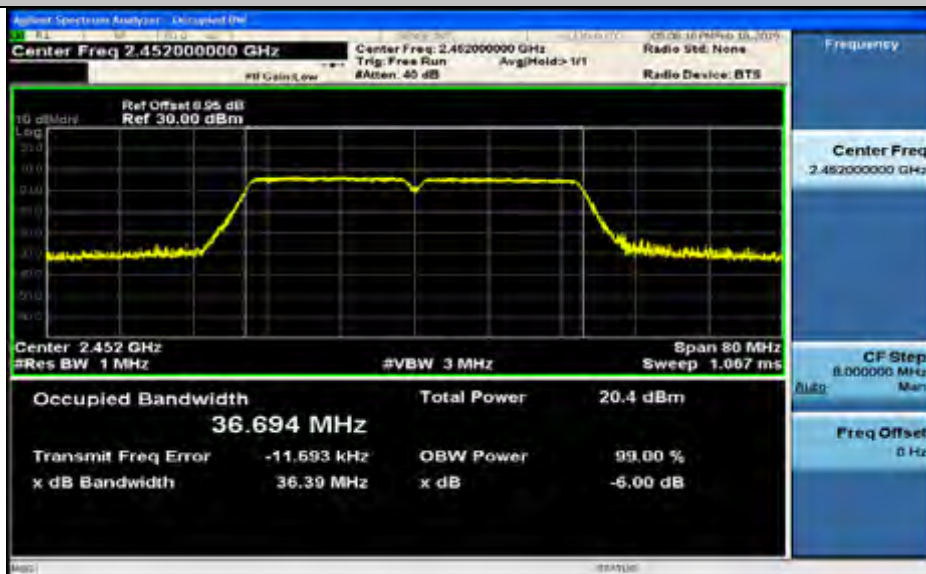
Occupied Bandwidth\_11N40SISO\_2422



Occupied Bandwidth\_11N40SISO\_2437



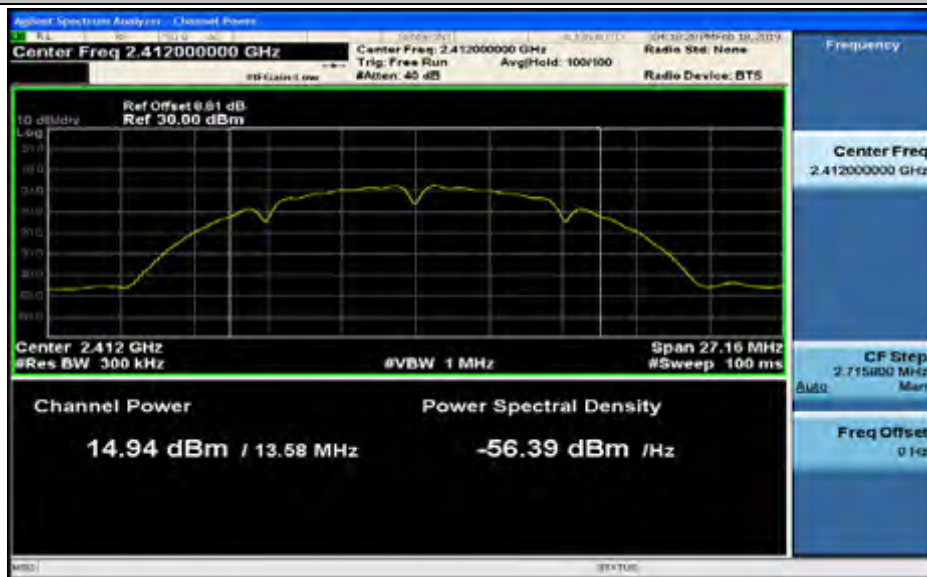
Occupied Bandwidth\_11N40SISO\_2452



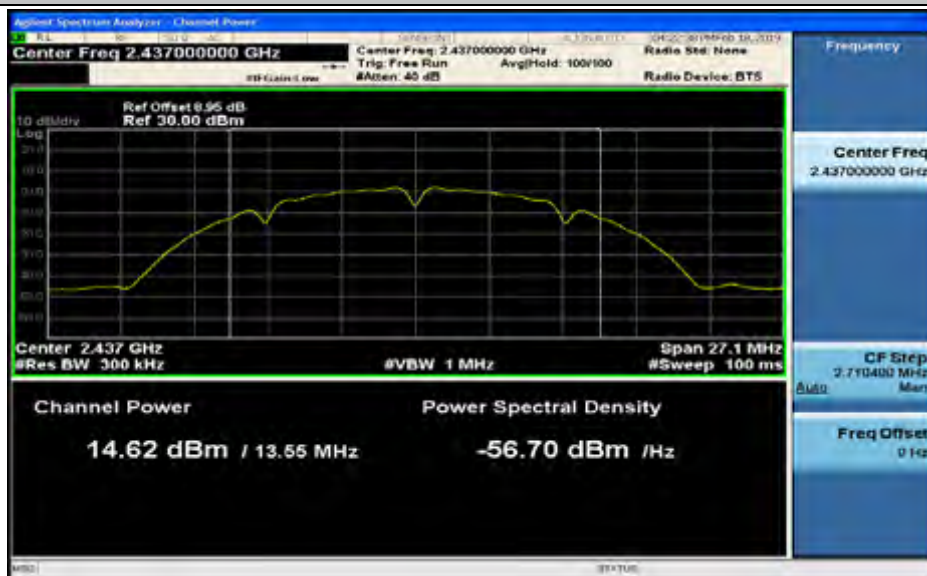
**3.Maximum conducted (average) output power**

Test Mode	Test Channel	Ant	Level [dBm]	10log(1/x) Factor[dB]	Power [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	14.94	0.00	14.94	30	PASS
11B	2437	Ant1	14.62	0.00	14.62	30	PASS
11B	2462	Ant1	13.94	0.00	13.94	30	PASS
11G	2412	Ant1	14.37	0.00	14.37	30	PASS
11G	2437	Ant1	14.13	0.00	14.13	30	PASS
11G	2462	Ant1	13.4	0.00	13.40	30	PASS
11N20SISO	2412	Ant1	14.32	0.00	14.32	30	PASS
11N20SISO	2437	Ant1	14.13	0.00	14.13	30	PASS
11N20SISO	2462	Ant1	13.41	0.00	13.41	30	PASS
11N40SISO	2422	Ant1	13.59	0.00	13.59	30	PASS
11N40SISO	2437	Ant1	13.44	0.00	13.44	30	PASS
11N40SISO	2452	Ant1	13.04	0.00	13.04	30	PASS

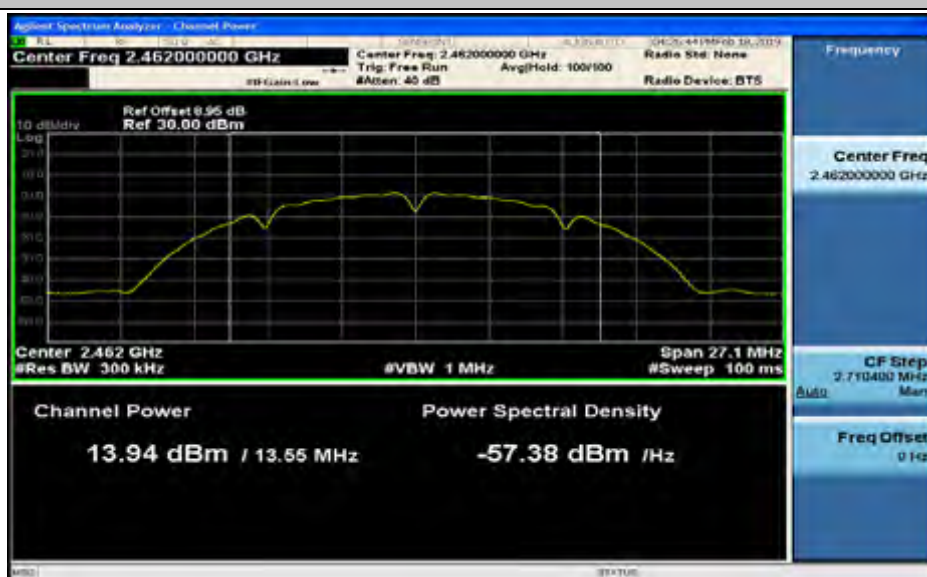
Maximum conducted (average) output power\_11B\_2412\_Ant1



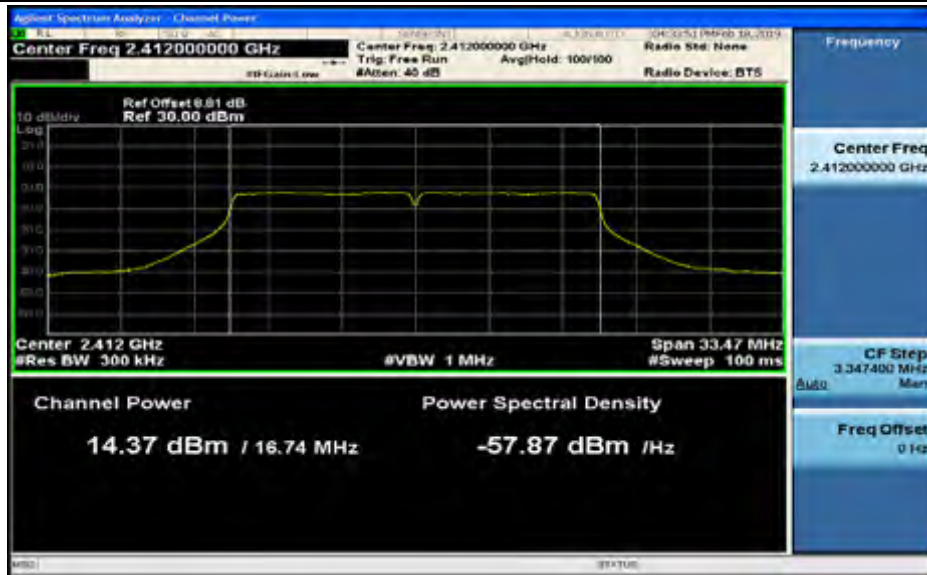
Maximum conducted (average) output power\_11B\_2437\_Ant1



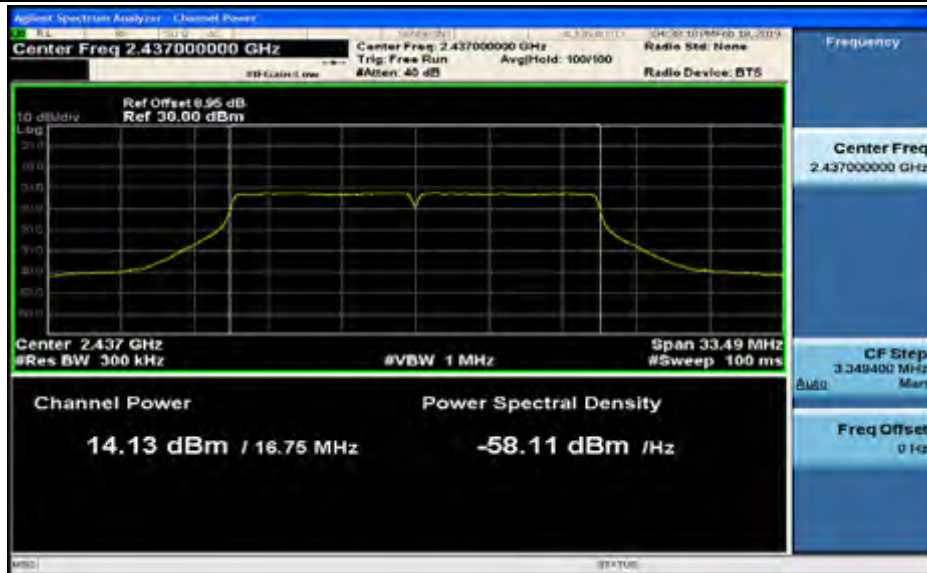
Maximum conducted (average) output power\_11B\_2462\_Ant1



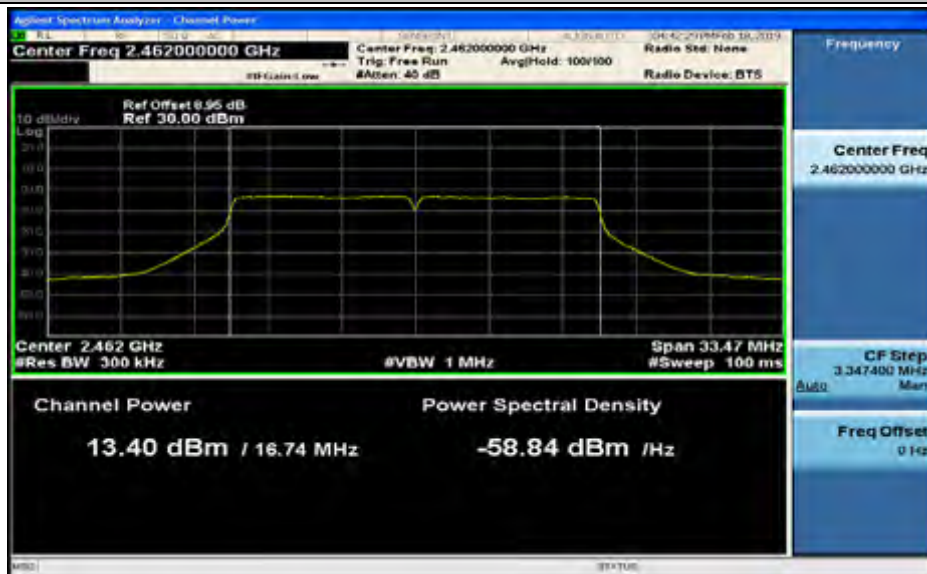
Maximum conducted (average) output power\_11G\_2412\_Ant1



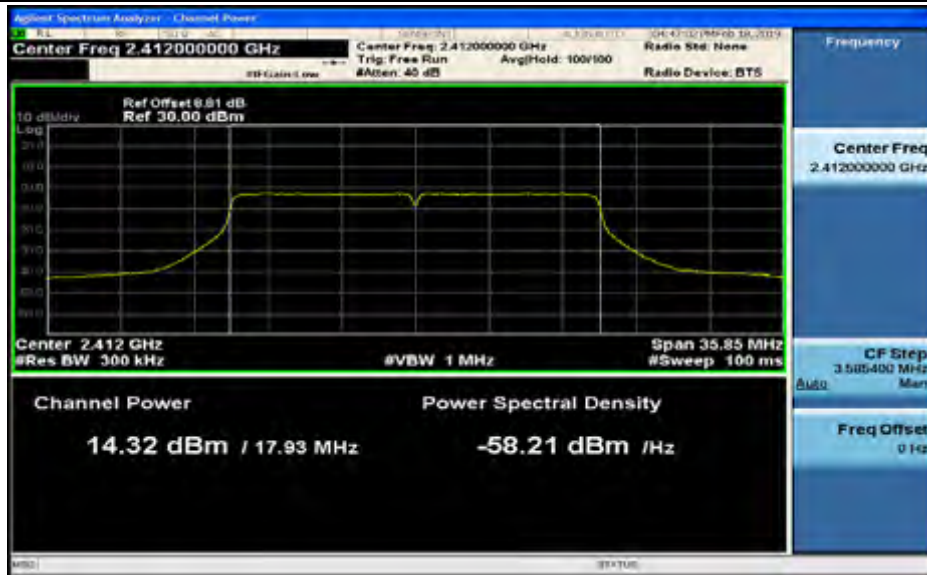
Maximum conducted (average) output power\_11G\_2437\_Ant1



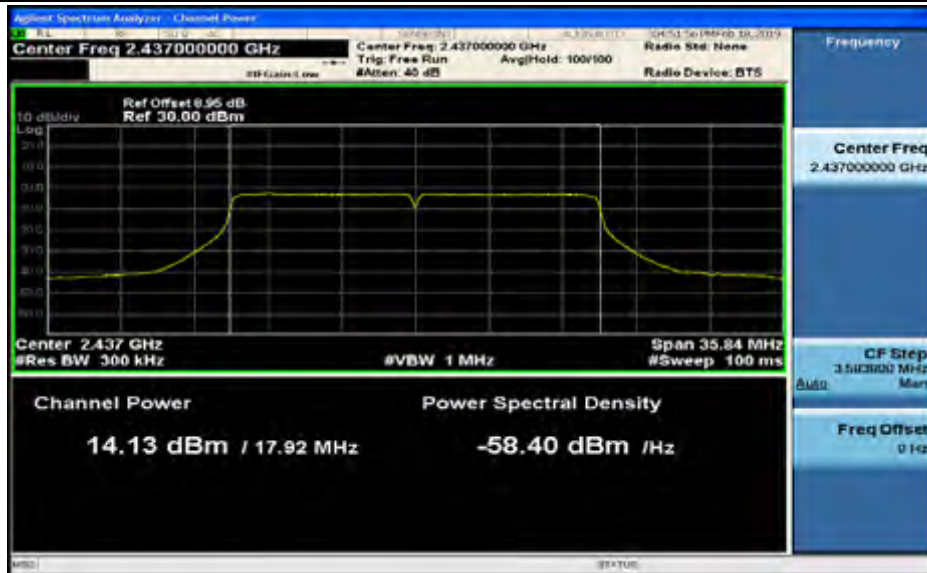
Maximum conducted (average) output power\_11G\_2462\_Ant1



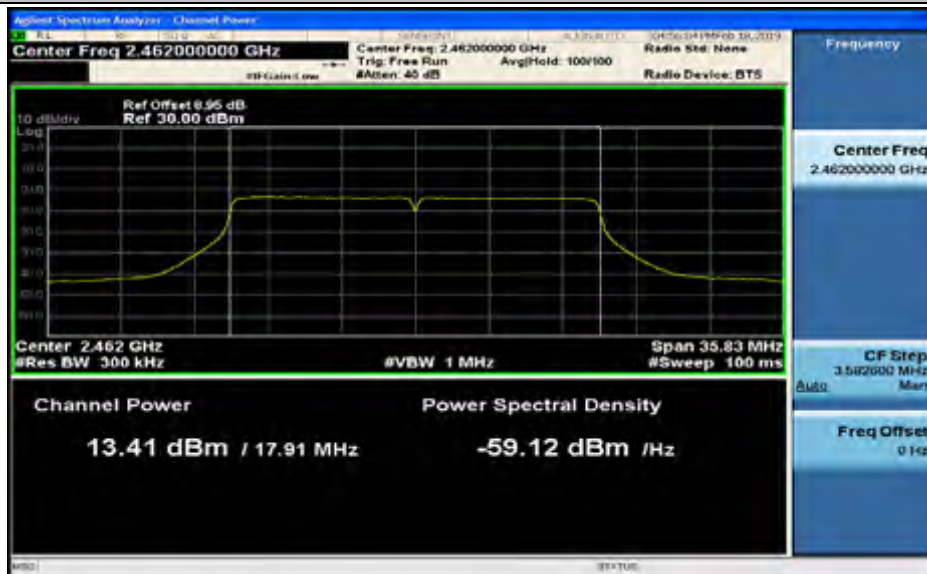
Maximum conducted (average) output power\_11N20SISO\_2412\_Ant1



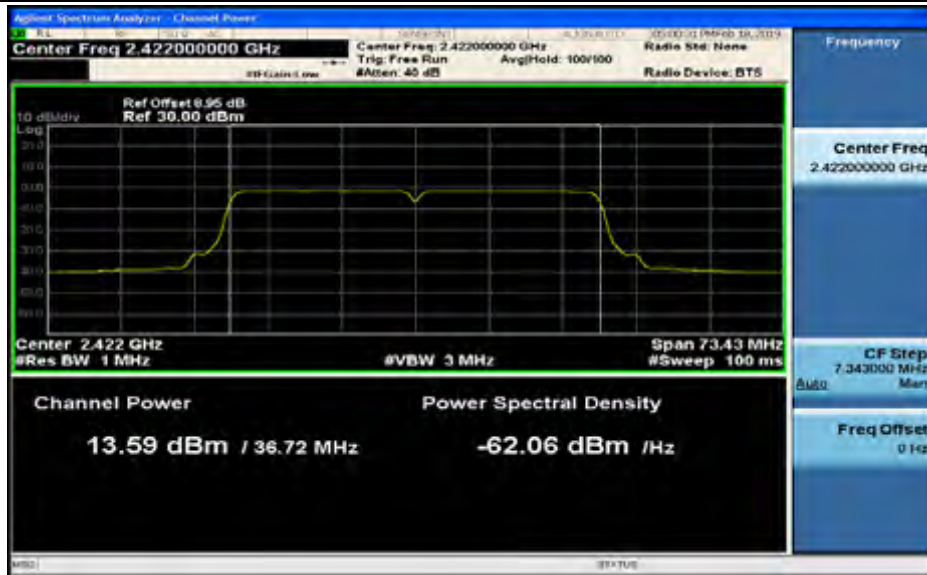
Maximum conducted (average) output power\_11N20SISO\_2437\_Ant1



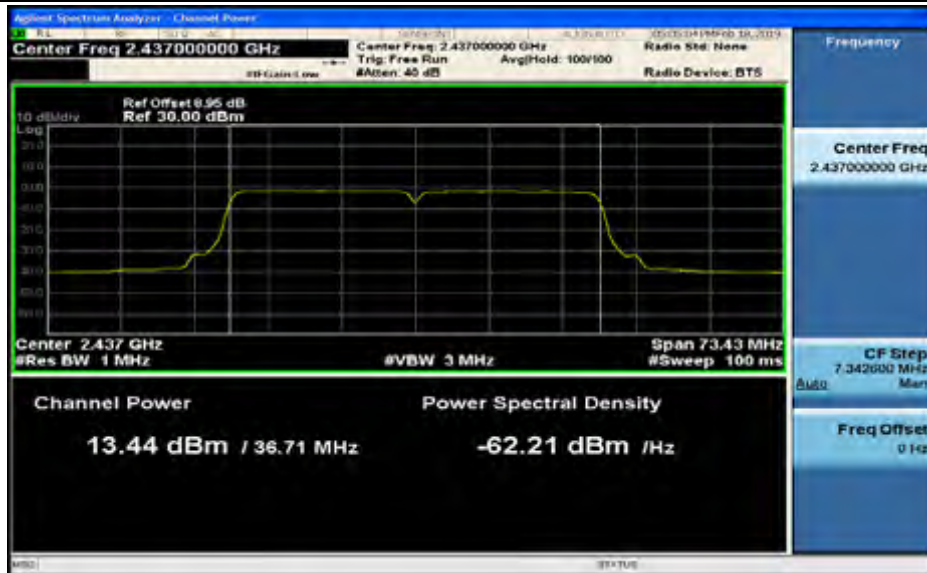
Maximum conducted (average) output power\_11N20SISO\_2462\_Ant1



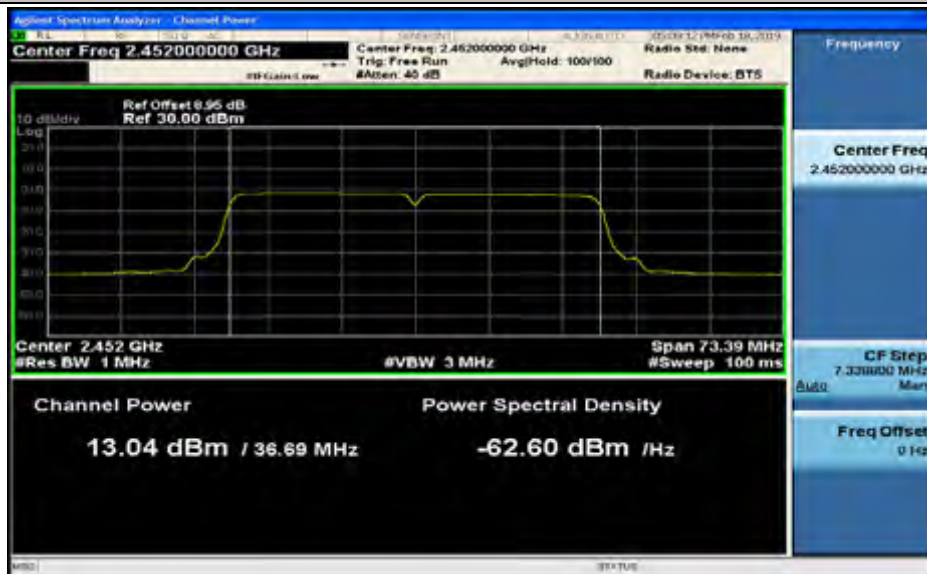
Maximum conducted (average) output power\_11N40SISO\_2422\_Ant1



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	-17.34	0.00	-17.34	8.00	PASS
11B	2437	Ant1	-17.59	0.00	-17.59	8.00	PASS
11B	2462	Ant1	-18.25	0.00	-18.25	8.00	PASS
11G	2412	Ant1	-19.23	0.00	-19.23	8.00	PASS
11G	2437	Ant1	-19.14	0.00	-19.14	8.00	PASS
11G	2462	Ant1	-19.80	0.00	-19.80	8.00	PASS
11N20SISO	2412	Ant1	-20.83	0.00	-20.83	8.00	PASS
11N20SISO	2437	Ant1	-20.98	0.00	-20.98	8.00	PASS
11N20SISO	2462	Ant1	-21.48	0.00	-21.48	8.00	PASS
11N40SISO	2422	Ant1	-24.91	0.00	-24.91	8.00	PASS
11N40SISO	2437	Ant1	-25.09	0.00	-25.09	8.00	PASS
11N40SISO	2452	Ant1	-25.33	0.00	-25.33	8.00	PASS



Maximum(average) power spectral density\_11B\_2412\_Ant1



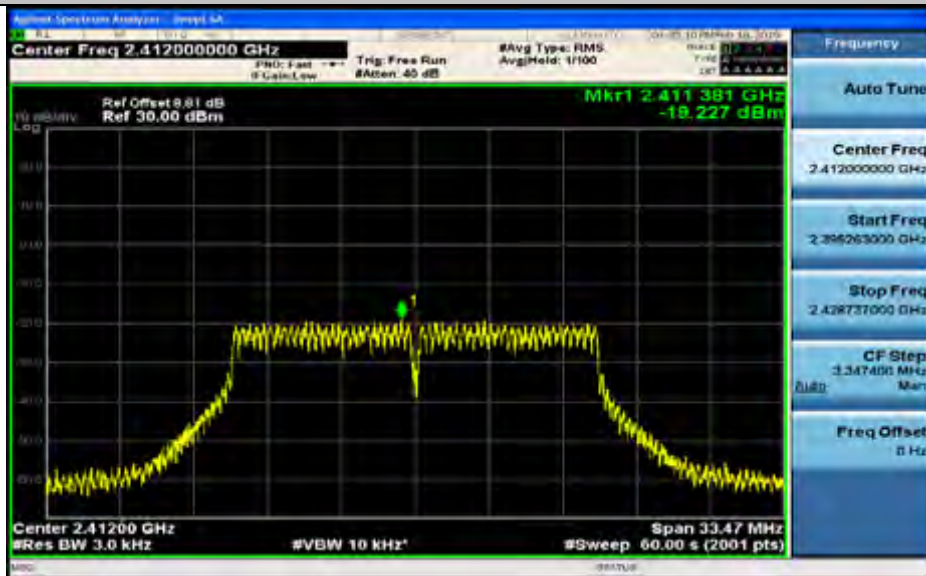
Maximum(average) power spectral density\_11B\_2437\_Ant1



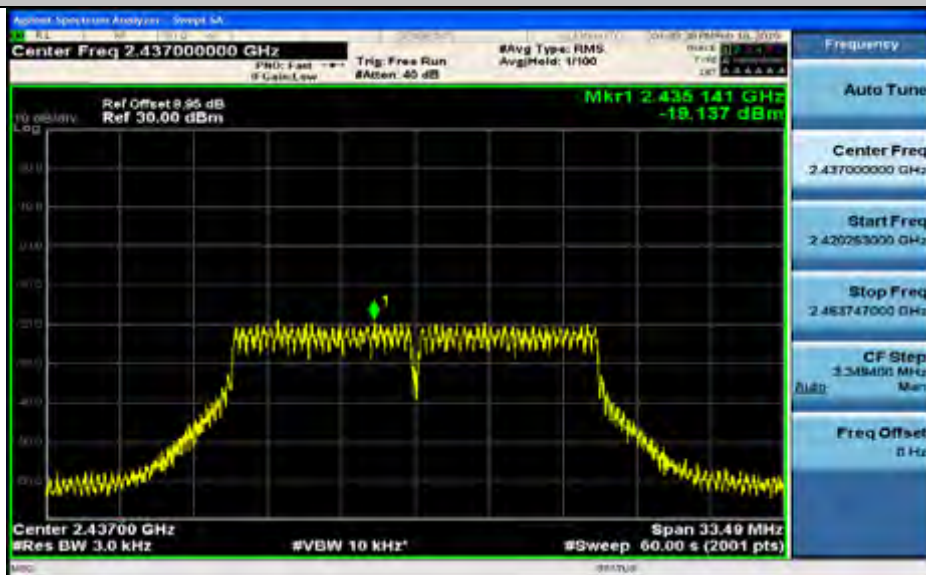
Maximum(average) power spectral density\_11B\_2462\_Ant1



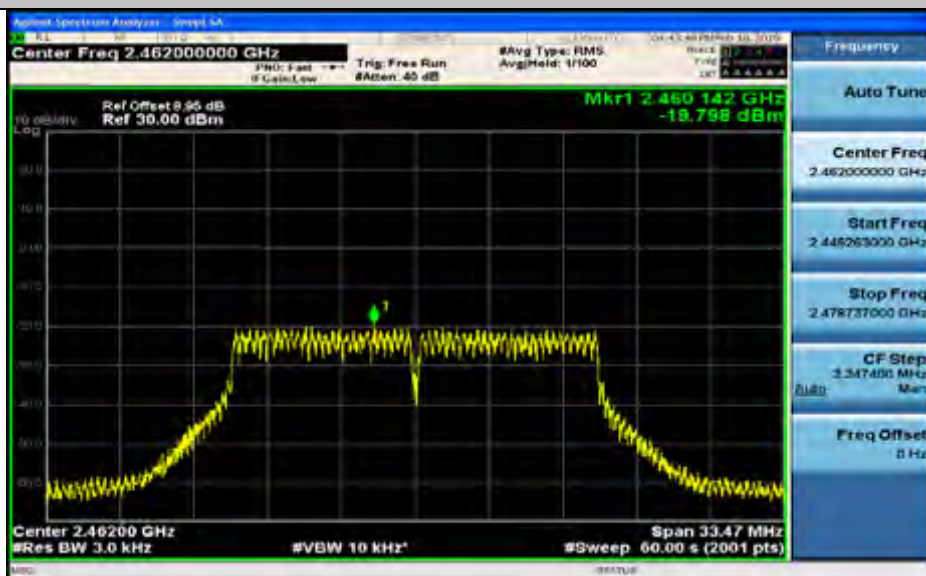
Maximum(average) power spectral density\_11G\_2412\_Ant1



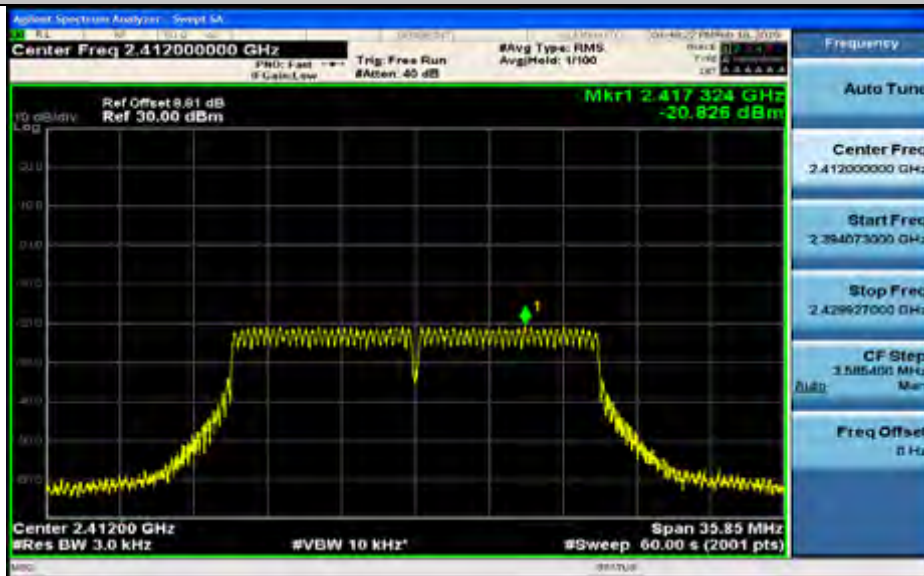
Maximum(average) power spectral density\_11G\_2437\_Ant1



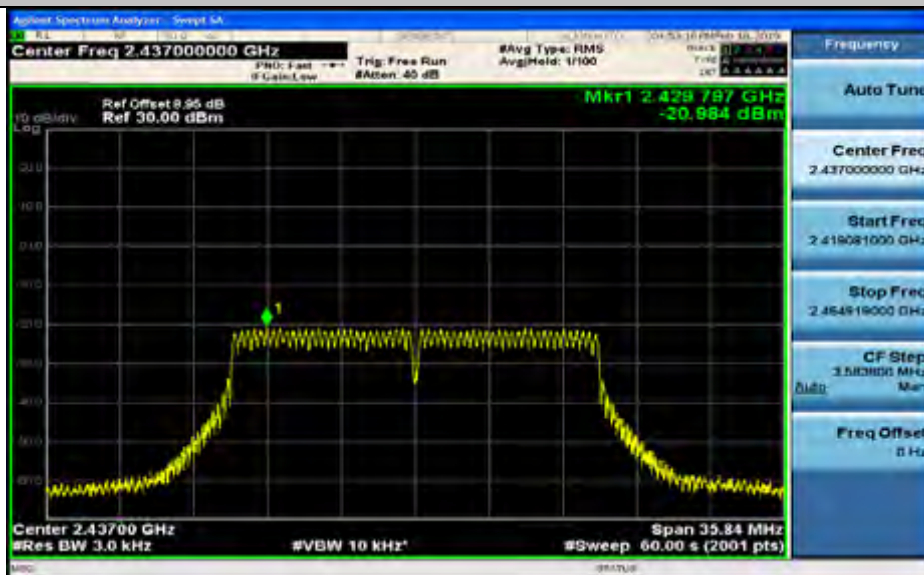
Maximum(average) power spectral density\_11G\_2462\_Ant1



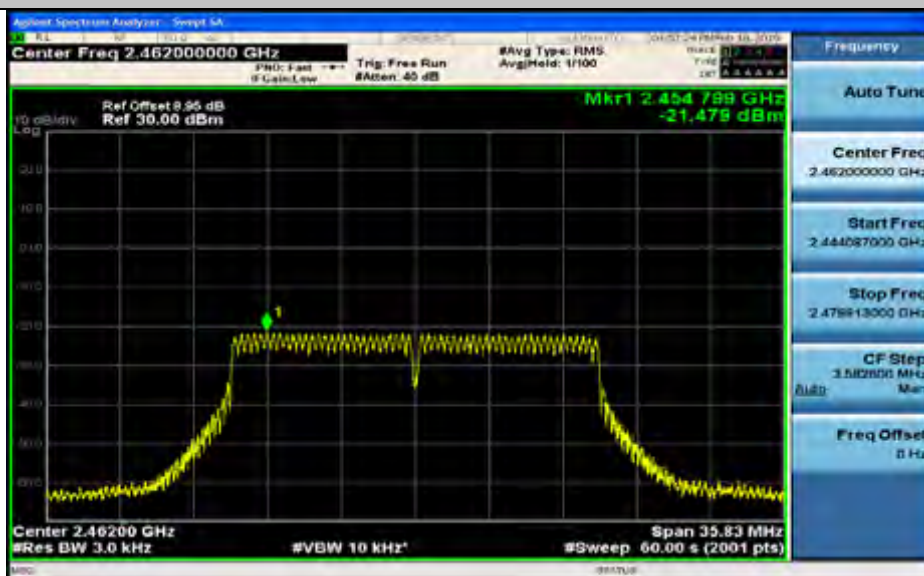
Maximum(average) power spectral density\_11N20SISO\_2412\_Ant1



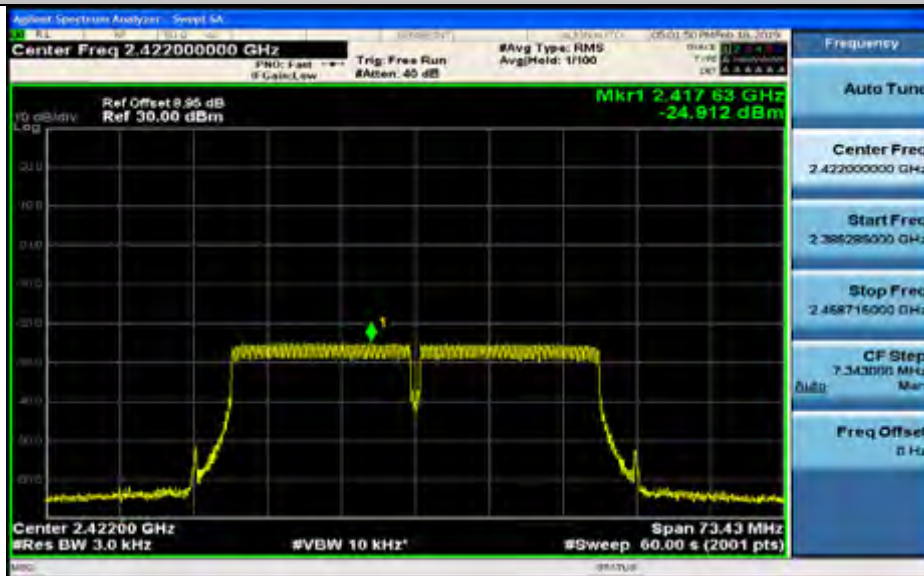
Maximum(average) power spectral density\_11N20SISO\_2437\_Ant1



Maximum(average) power spectral density\_11N20SISO\_2462\_Ant1



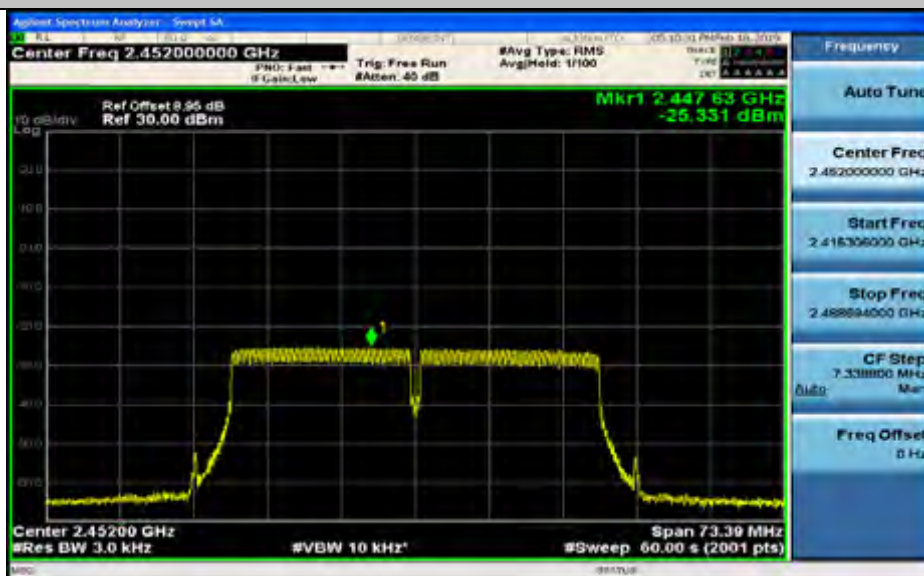
Maximum(average) power spectral density\_11N40SISO\_2422\_Ant1



Maximum(average) power spectral density\_11N40SISO\_2437\_Ant1



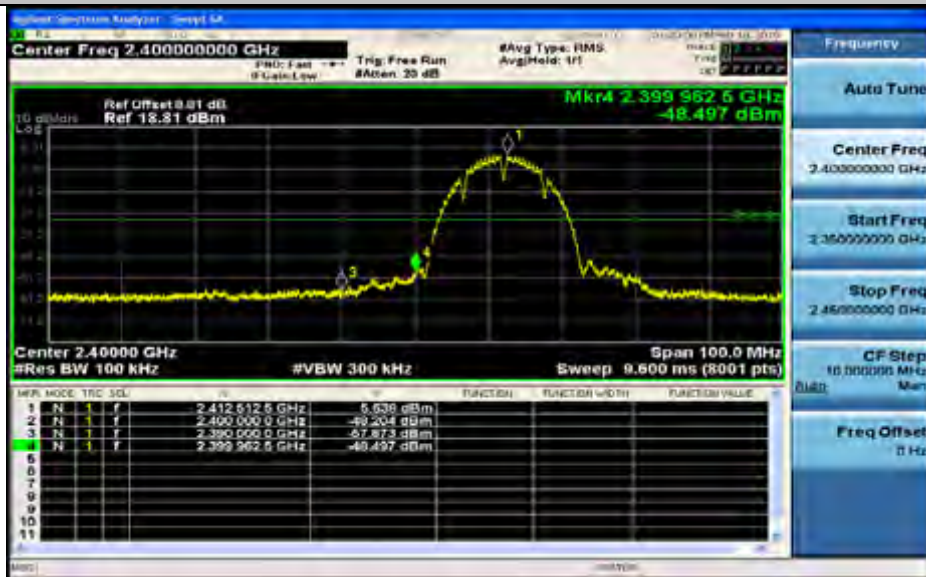
Maximum(average) power spectral density\_11N40SISO\_2452\_Ant1



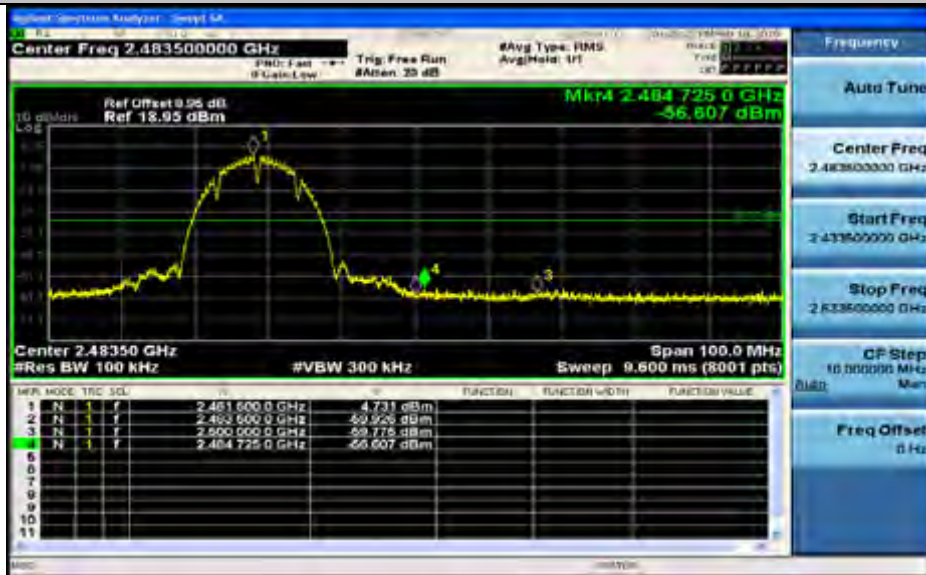
**5.Band-edge for RF Conducted Emissions**

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	5.64	-48.20	-24.36	PASS
11B	2462	Ant1	4.73	-56.61	-25.27	PASS
11G	2412	Ant1	1.82	-32.29	-28.18	PASS
11G	2462	Ant1	1.10	-43.32	-28.90	PASS
11N20SISO	2412	Ant1	0.30	-33.35	-29.71	PASS
11N20SISO	2462	Ant1	-0.44	-42.86	-30.44	PASS
11N40SISO	2422	Ant1	-3.84	-35.11	-33.84	PASS
11N40SISO	2452	Ant1	-4.35	-42.36	-34.35	PASS

Band-edge for RF Conducted Emissions\_11B\_2412\_Ant1



Band-edge for RF Conducted Emissions\_11B\_2462\_Ant1



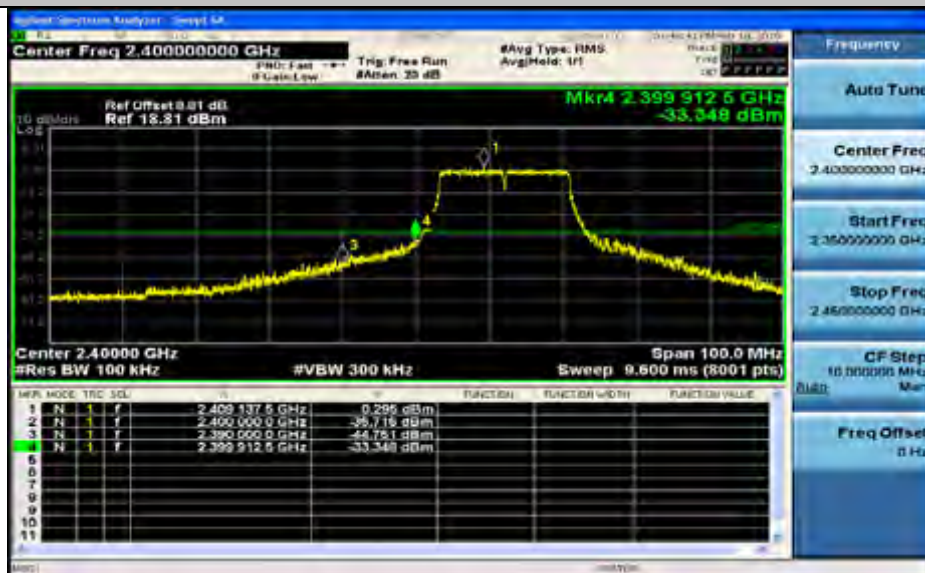
Band-edge for RF Conducted Emissions\_11G\_2412\_Ant1



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





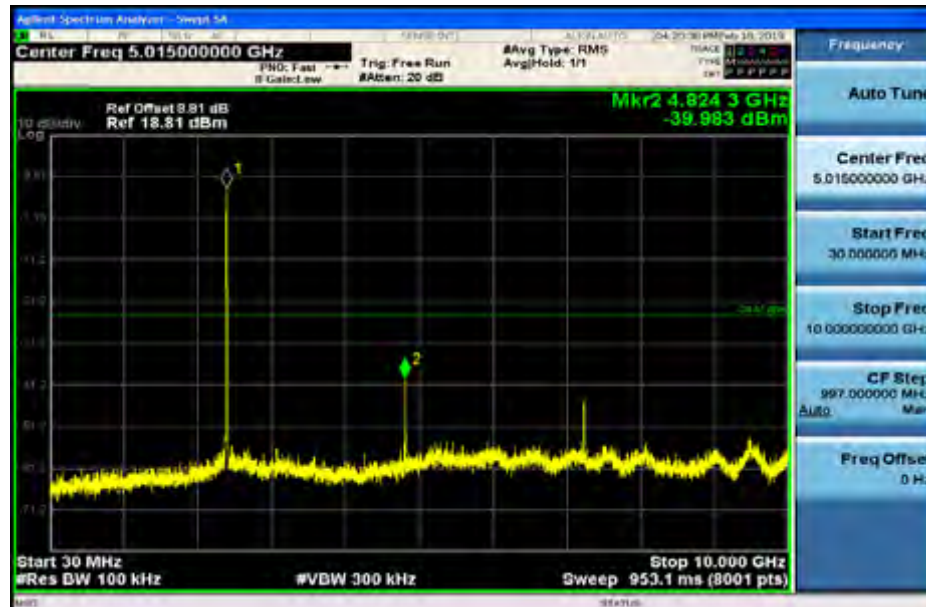
**6.RF Conducted Spurious Emissions**

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	5.53	-39.98	<- 24.47	PASS
11B	2412	Ant1	10000	26000	100	300	5.526	-44.793	<- 24.474	PASS
11B	2437	Ant1	30	10000	100	300	5.28	-40.71	<- 24.72	PASS
11B	2437	Ant1	10000	26000	100	300	5.276	-44.651	<- 24.724	PASS
11B	2462	Ant1	30	10000	100	300	4.63	-41.92	<- 25.37	PASS
11B	2462	Ant1	10000	26000	100	300	4.63	-43.877	<- 25.37	PASS
11G	2412	Ant1	30	10000	100	300	1.58	-48.25	<- 28.42	PASS
11G	2412	Ant1	10000	26000	100	300	1.579	-44.816	<- 28.421	PASS
11G	2437	Ant1	30	10000	100	300	1.42	-50.45	<- 28.58	PASS
11G	2437	Ant1	10000	26000	100	300	1.422	-44.264	<- 28.578	PASS
11G	2462	Ant1	30	10000	100	300	1.18	-50.30	<- 28.82	PASS
11G	2462	Ant1	10000	26000	100	300	1.179	-43.398	<- 28.821	PASS
11N20SISO	2412	Ant1	30	10000	100	300	0.04	-49.04	<- 29.97	PASS
11N20SISO	2412	Ant1	10000	26000	100	300	0.035	-44.688	<- 29.965	PASS
11N20SISO	2437	Ant1	30	10000	100	300	0.23	-50.70	<- 29.77	PASS
11N20SISO	2437	Ant1	10000	26000	100	300	0.23	-43.984	<- 29.77	PASS
11N20SISO	2462	Ant1	30	10000	100	300	-0.61	-50.12	<- 30.61	PASS
11N20SISO	2462	Ant1	10000	26000	100	300	-0.613	-44.251	<- 30.613	PASS
11N40SISO	2422	Ant1	30	10000	100	300	-4.01	-49.75	<- 34.01	PASS
11N40SISO	2422	Ant1	10000	26000	100	300	-4.012	-44.844	<- 34.012	PASS
11N40SISO	2437	Ant1	30	10000	100	300	-4.15	-49.63	<- 34.15	PASS
11N40SISO	2437	Ant1	10000	26000	100	300	-4.154	-45.106	<- 34.154	PASS
11N40SISO	2452	Ant1	30	10000	100	300	-4.33	-50.34	<- 34.33	PASS

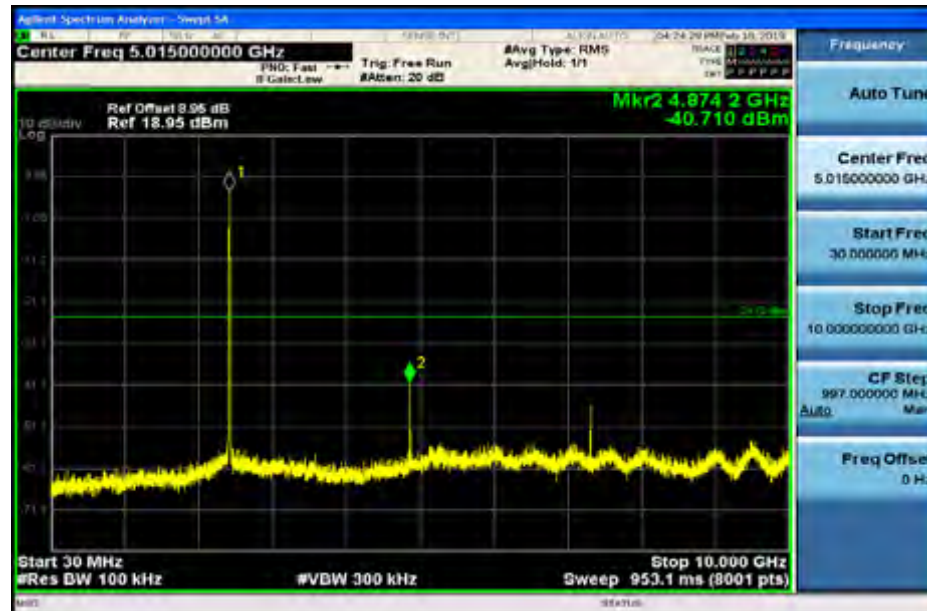


11N40SISO	2452	Ant1	10000	26000	100	300	-4.328	-44.708	<- 34.328	PASS
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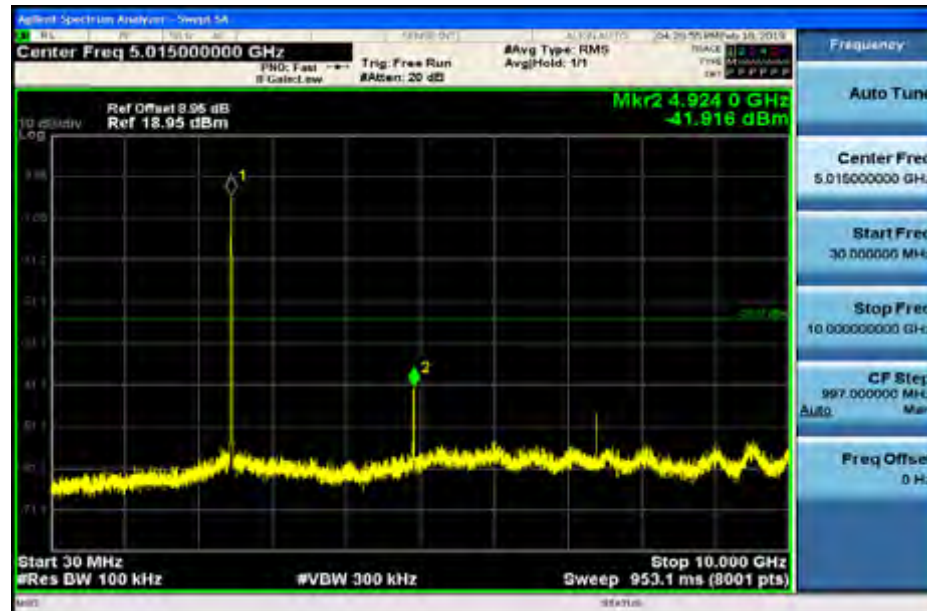
## RF Conducted Spurious Emissions\_11B\_2412



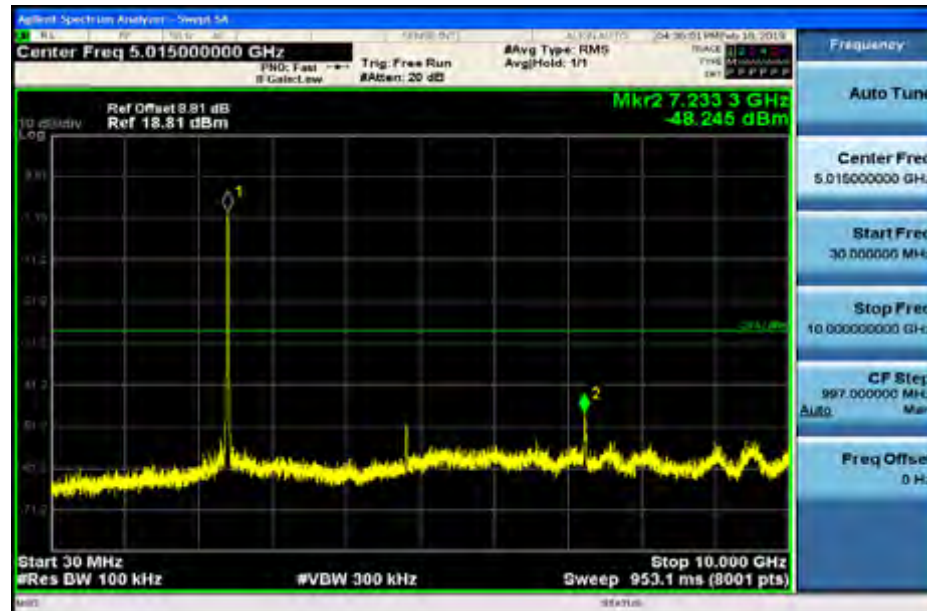
## RF Conducted Spurious Emissions\_11B\_2437



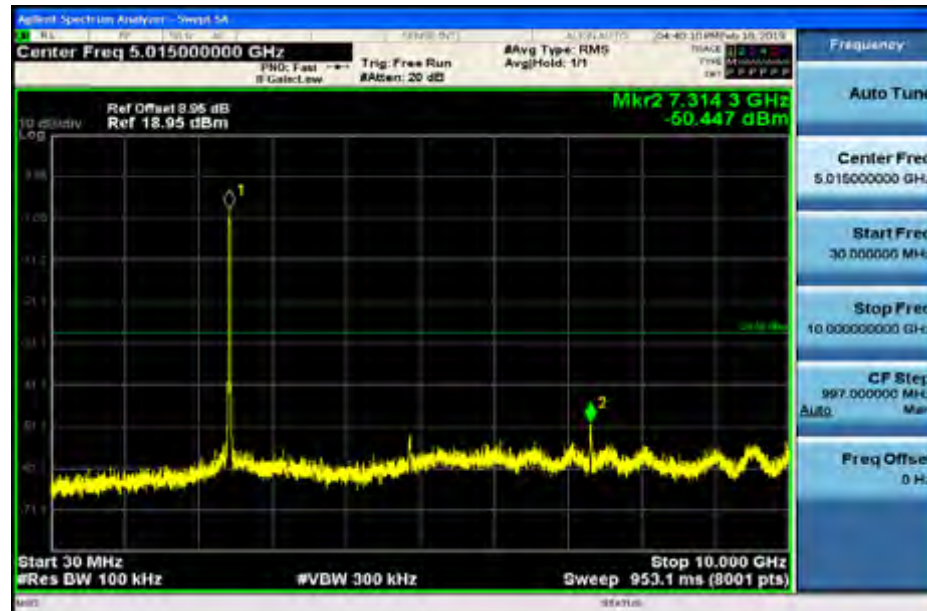
## RF Conducted Spurious Emissions\_11B\_2462



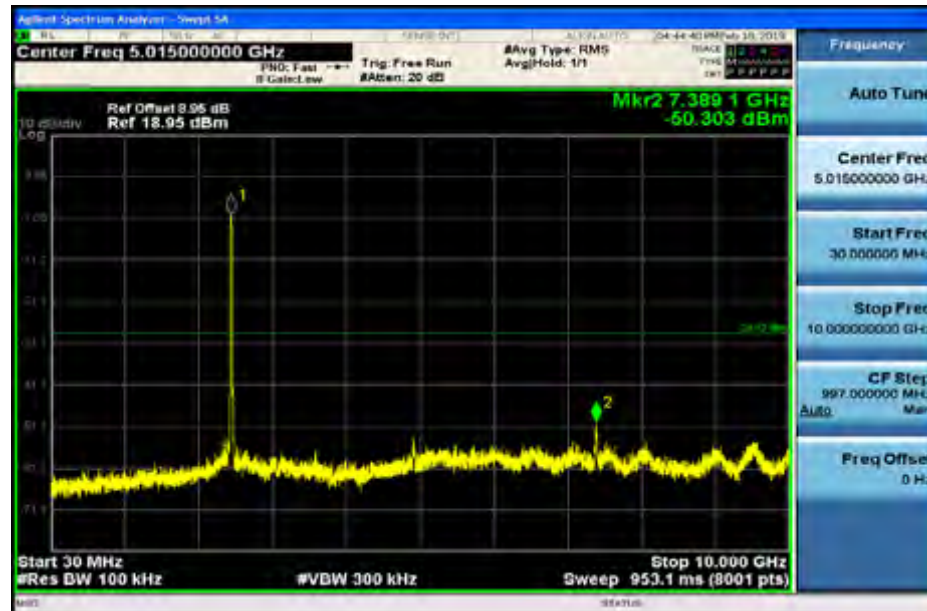
## RF Conducted Spurious Emissions\_11G\_2412



## RF Conducted Spurious Emissions\_11G\_2437

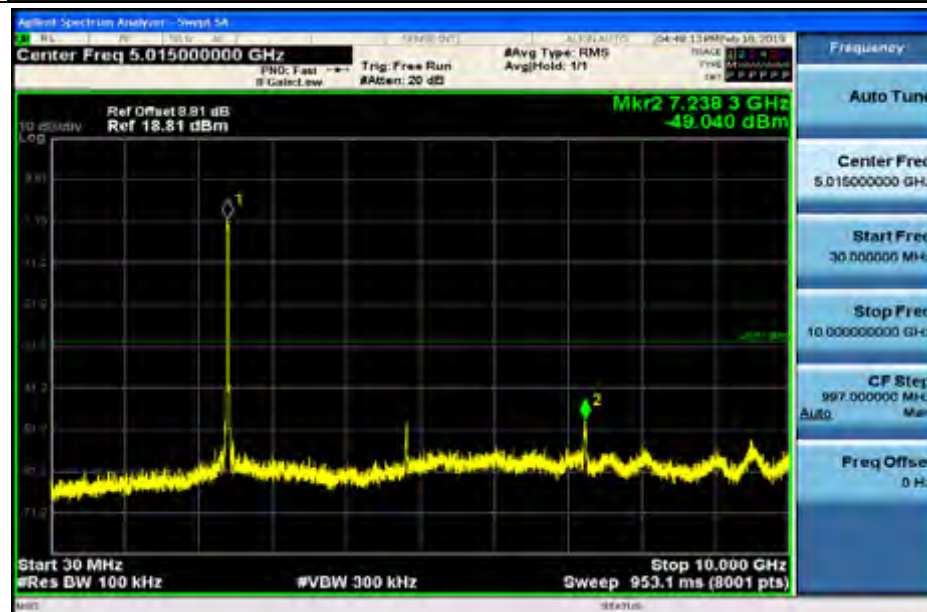
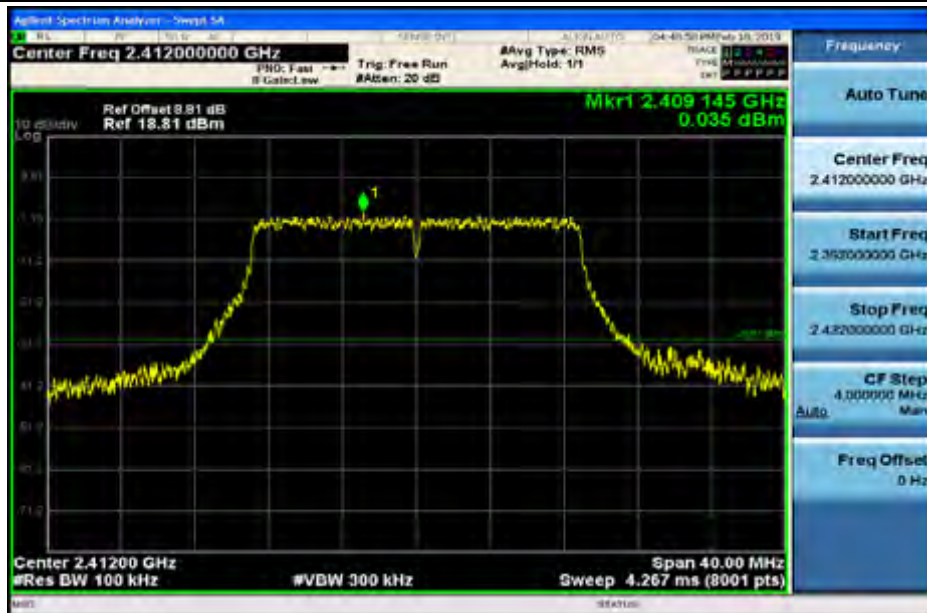


## RF Conducted Spurious Emissions\_11G\_2462

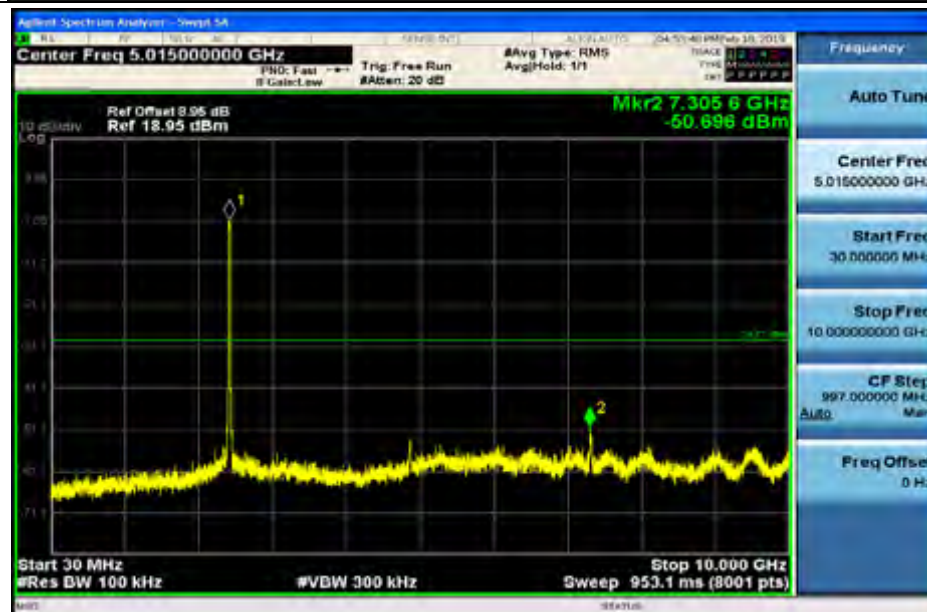
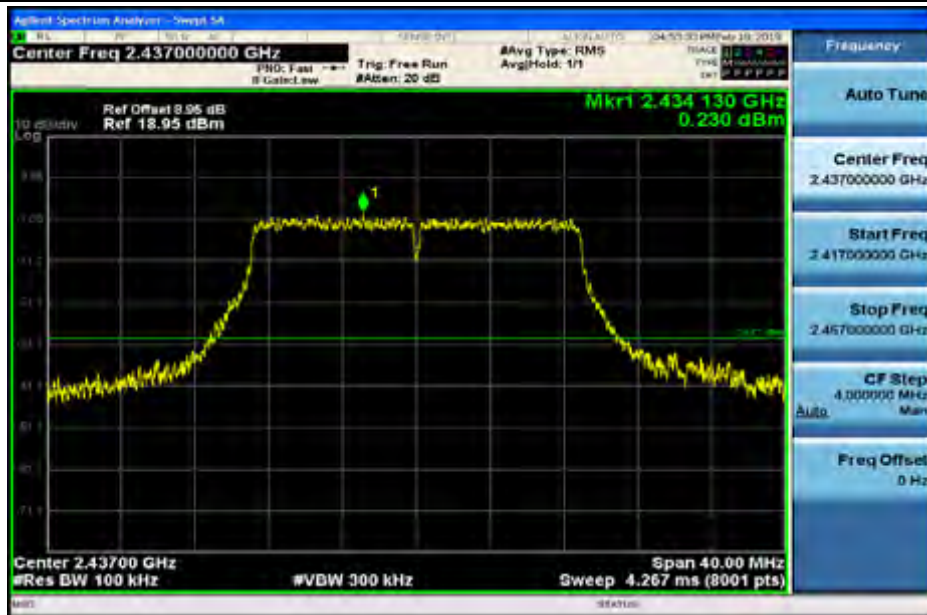




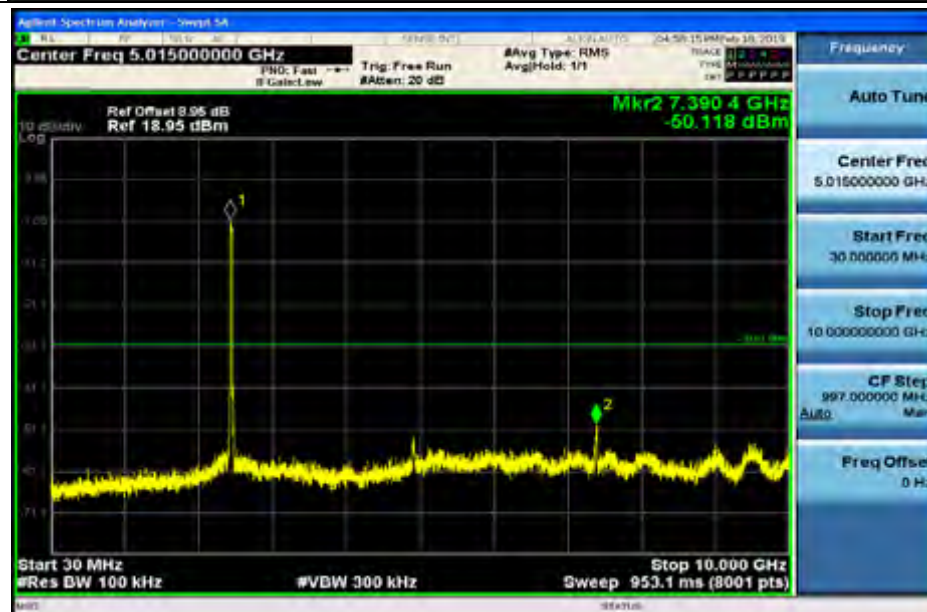
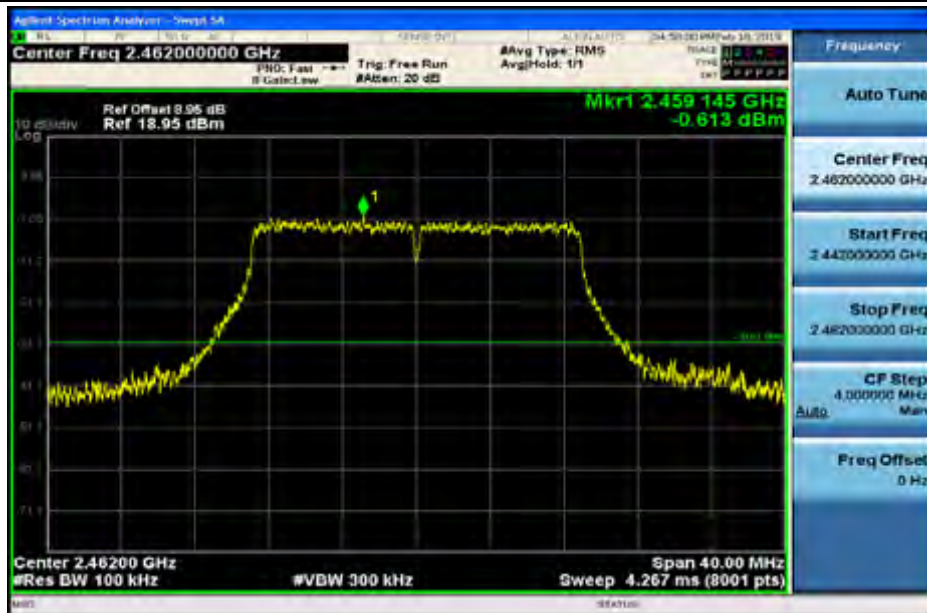
## RF Conducted Spurious Emissions\_11N20SISO\_2412



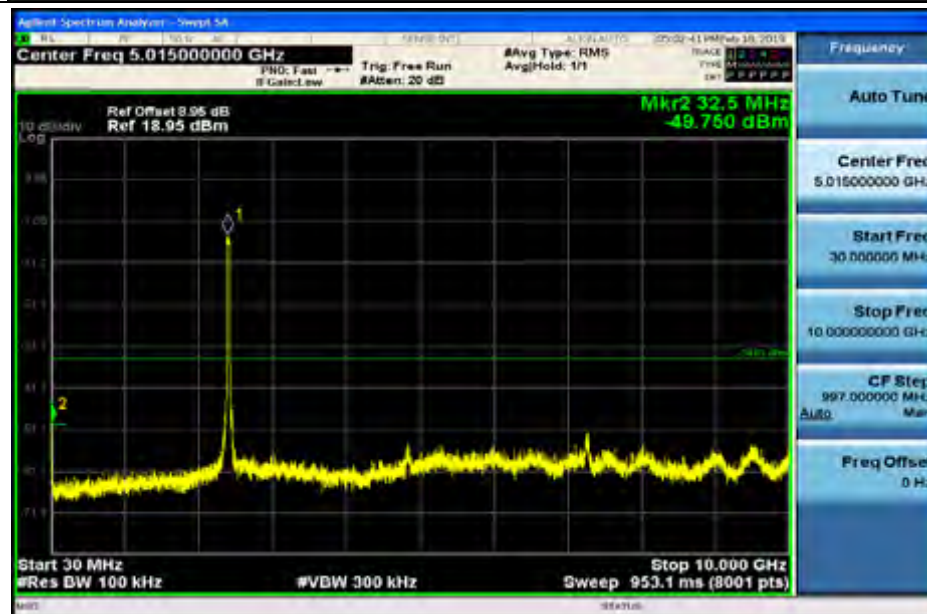
## RF Conducted Spurious Emissions\_11N20SISO\_2437



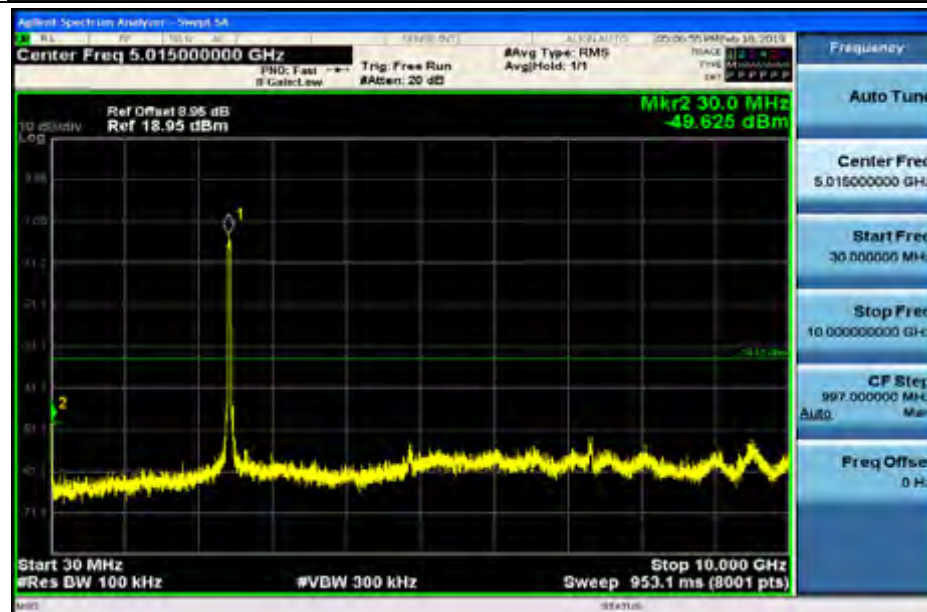
## RF Conducted Spurious Emissions\_11N20SISO\_2462



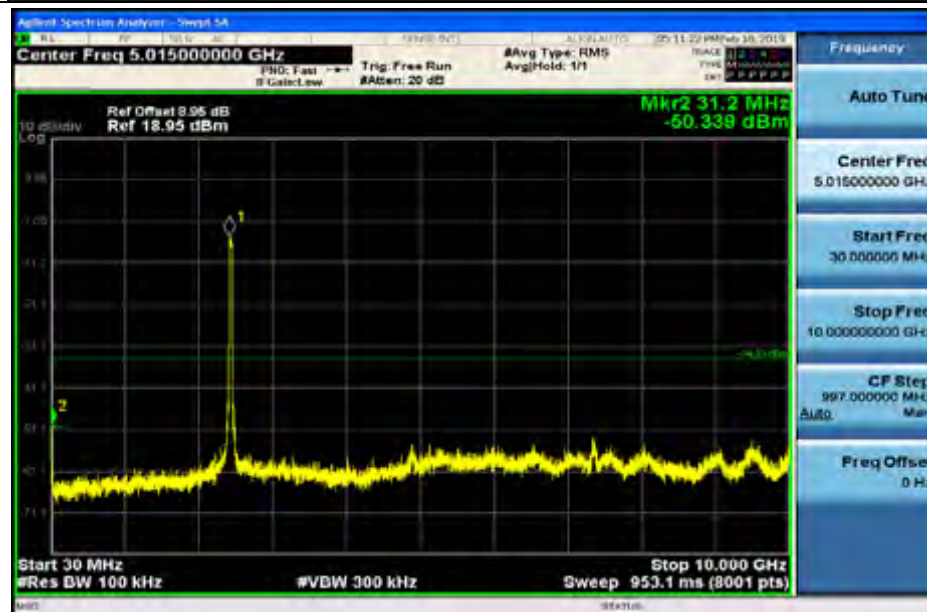
## RF Conducted Spurious Emissions\_11N40SISO\_2422



## RF Conducted Spurious Emissions\_11N40SISO\_2437



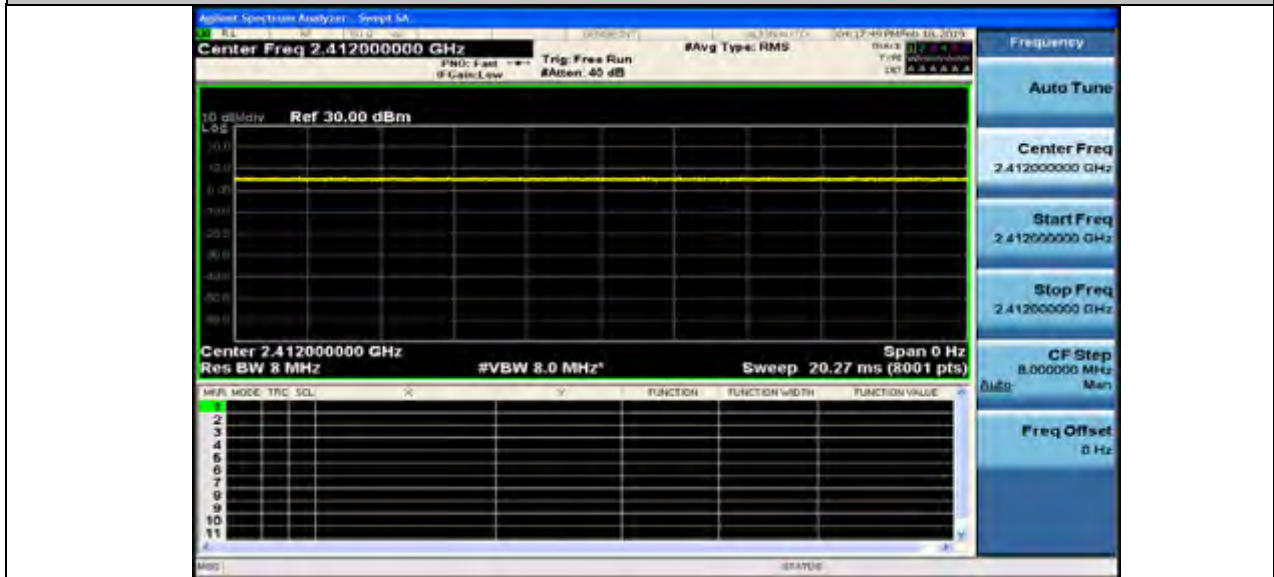
## RF Conducted Spurious Emissions\_11N40SISO\_2452



**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

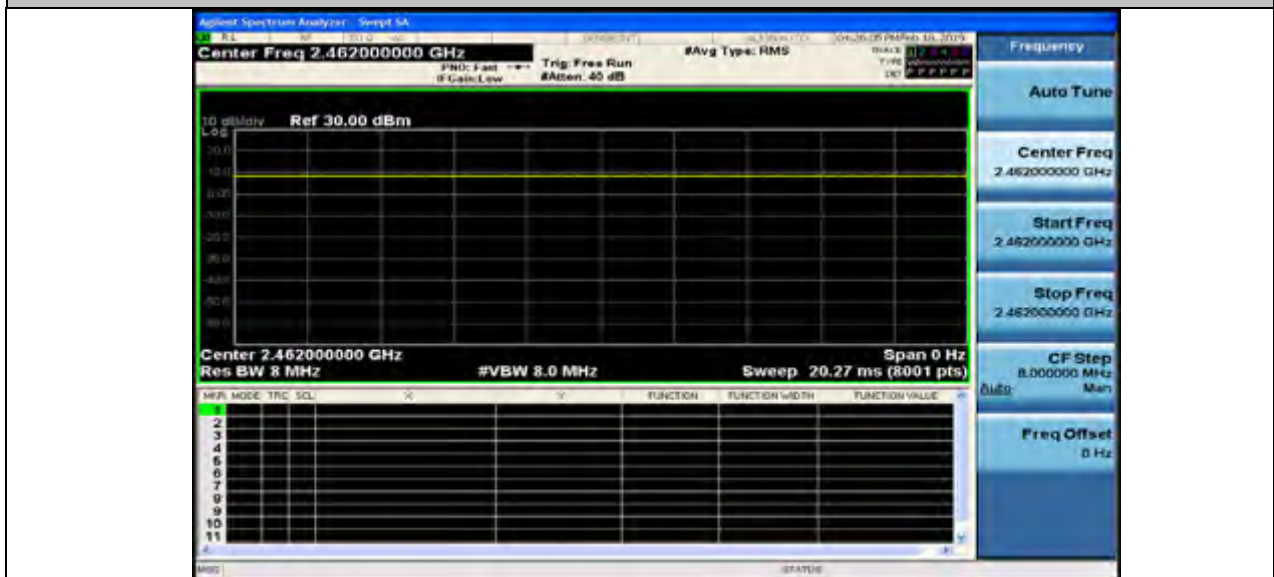
Duty Cycle\_11B\_2412\_Ant1



Duty Cycle\_11B\_2437\_Ant1

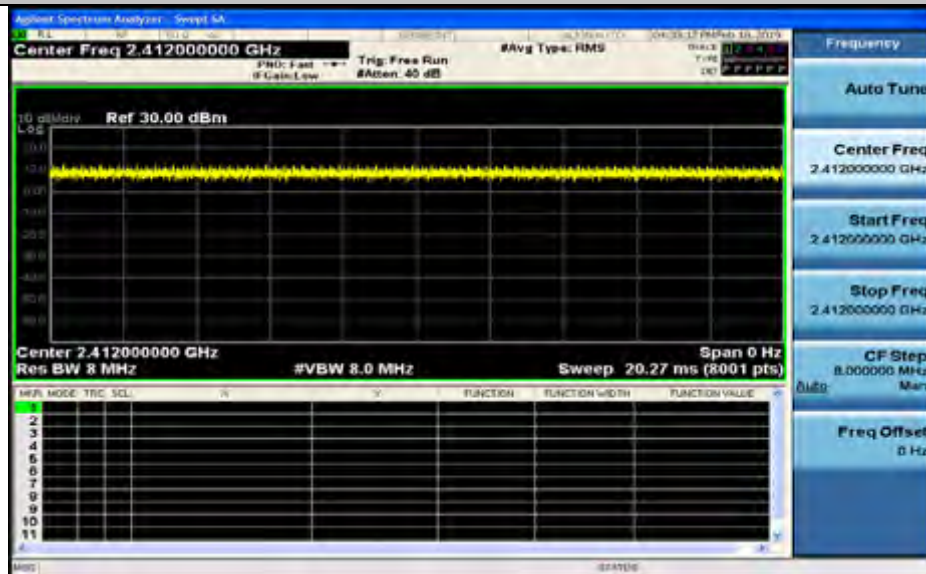


Duty Cycle\_11B\_2462\_Ant1

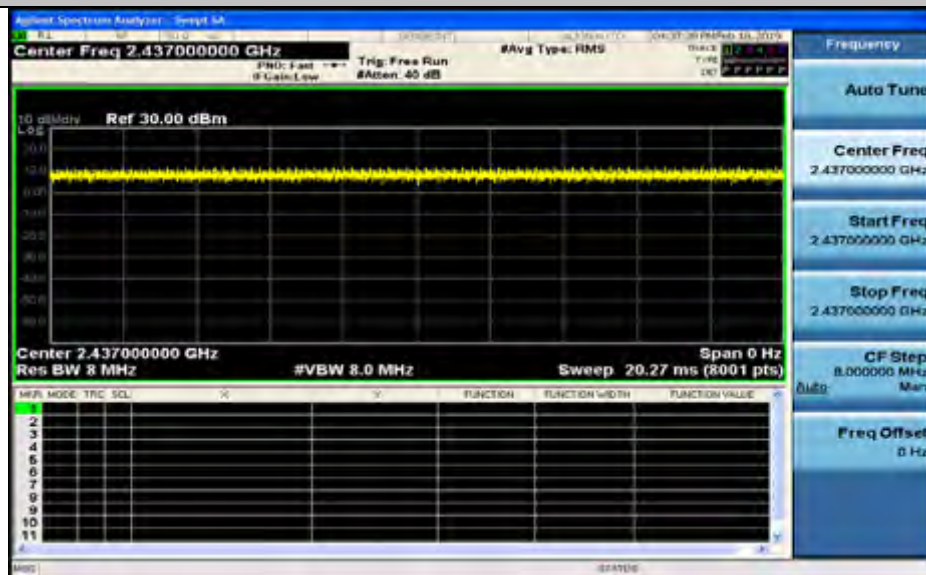




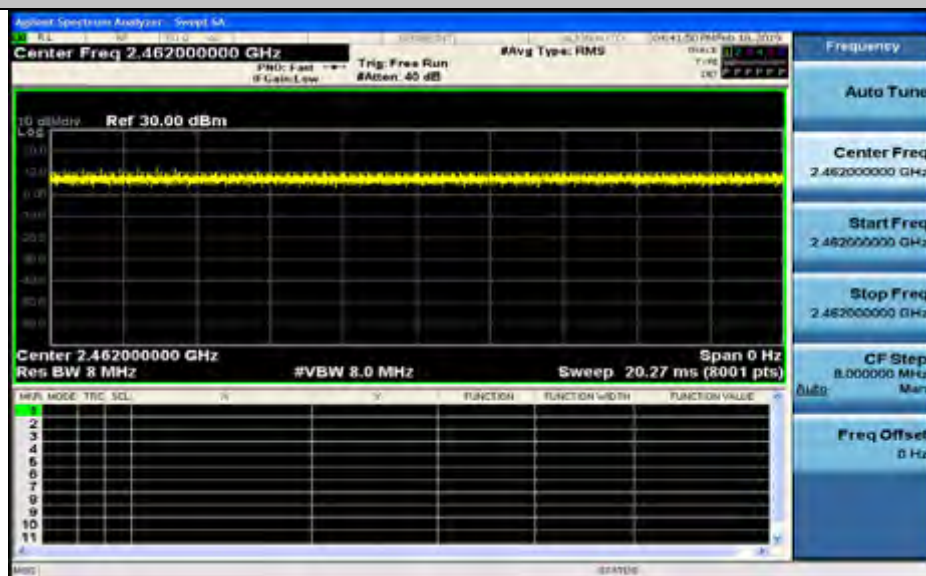
Duty Cycle\_11G\_2412\_Ant1



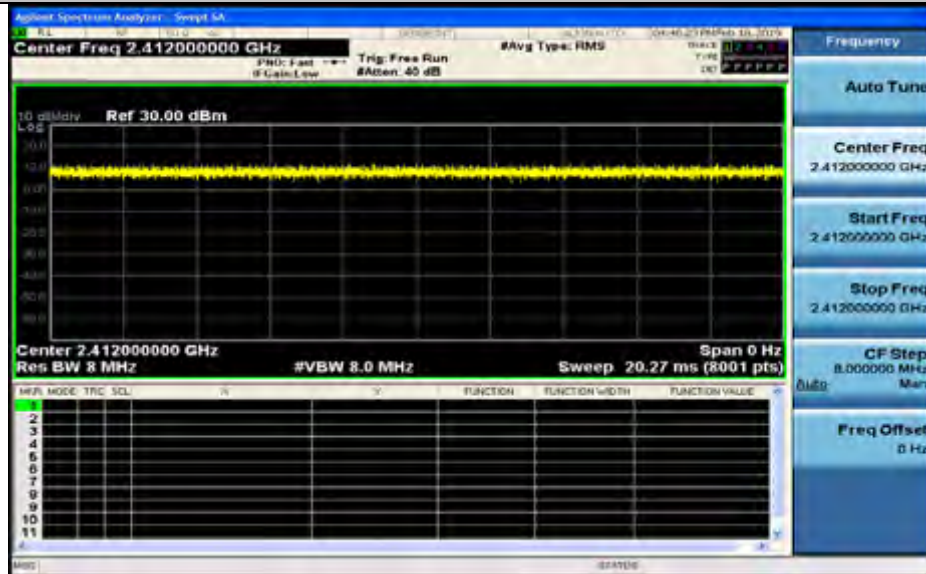
Duty Cycle\_11G\_2437\_Ant1



Duty Cycle\_11G\_2462\_Ant1



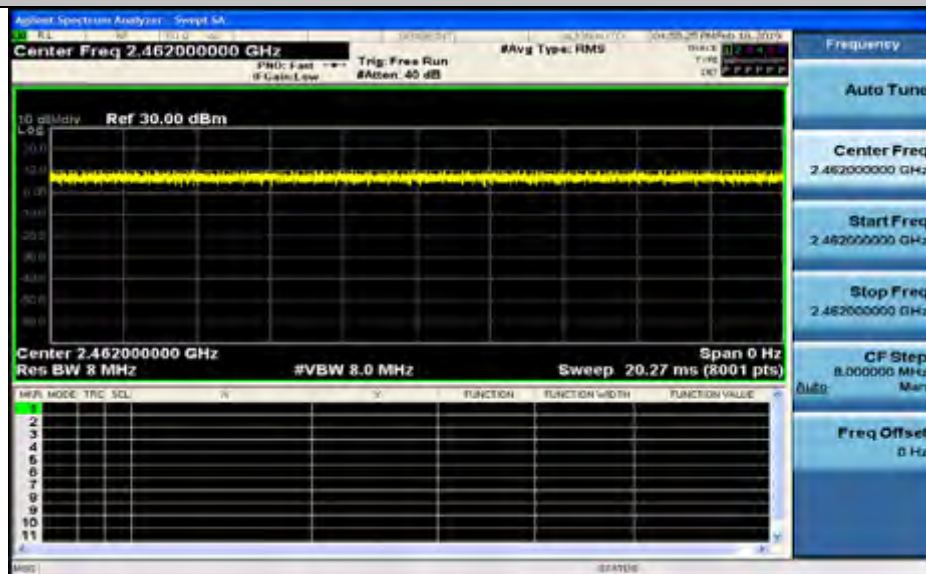
Duty Cycle\_11N20SISO\_2412\_Ant1



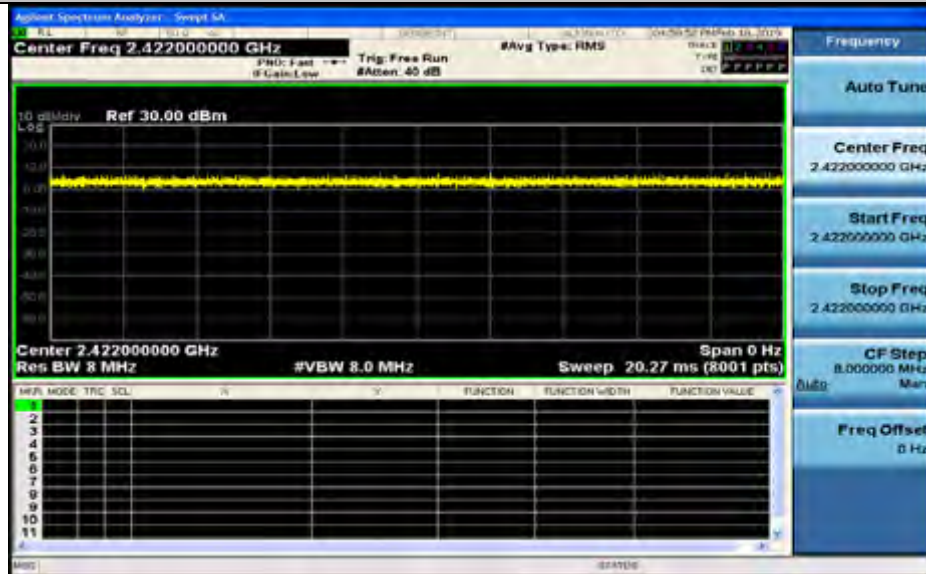
Duty Cycle\_11N20SISO\_2437\_Ant1



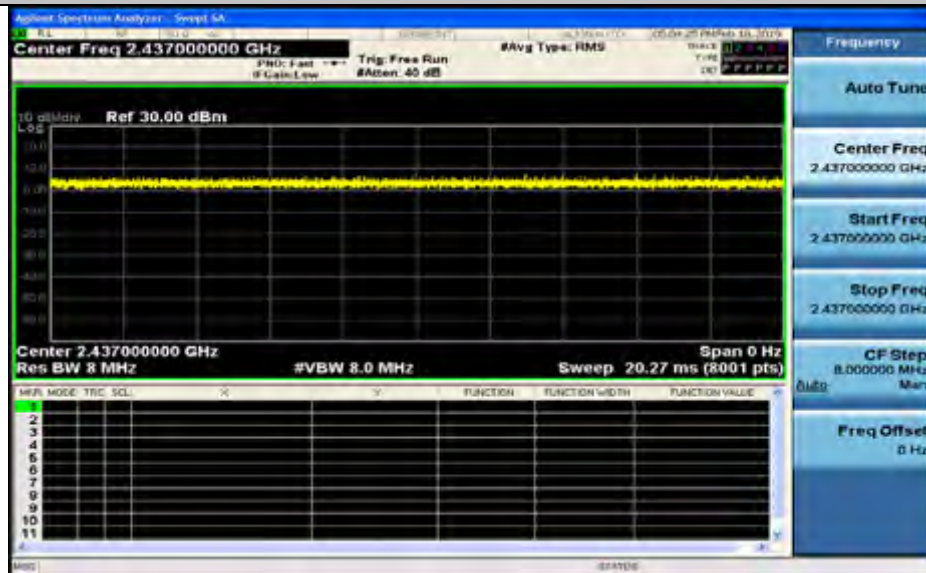
Duty Cycle\_11N20SISO\_2462\_Ant1



Duty Cycle\_11N40SISO\_2422\_Ant1



Duty Cycle\_11N40SISO\_2437\_Ant1



Duty Cycle\_11N40SISO\_2452\_Ant1

