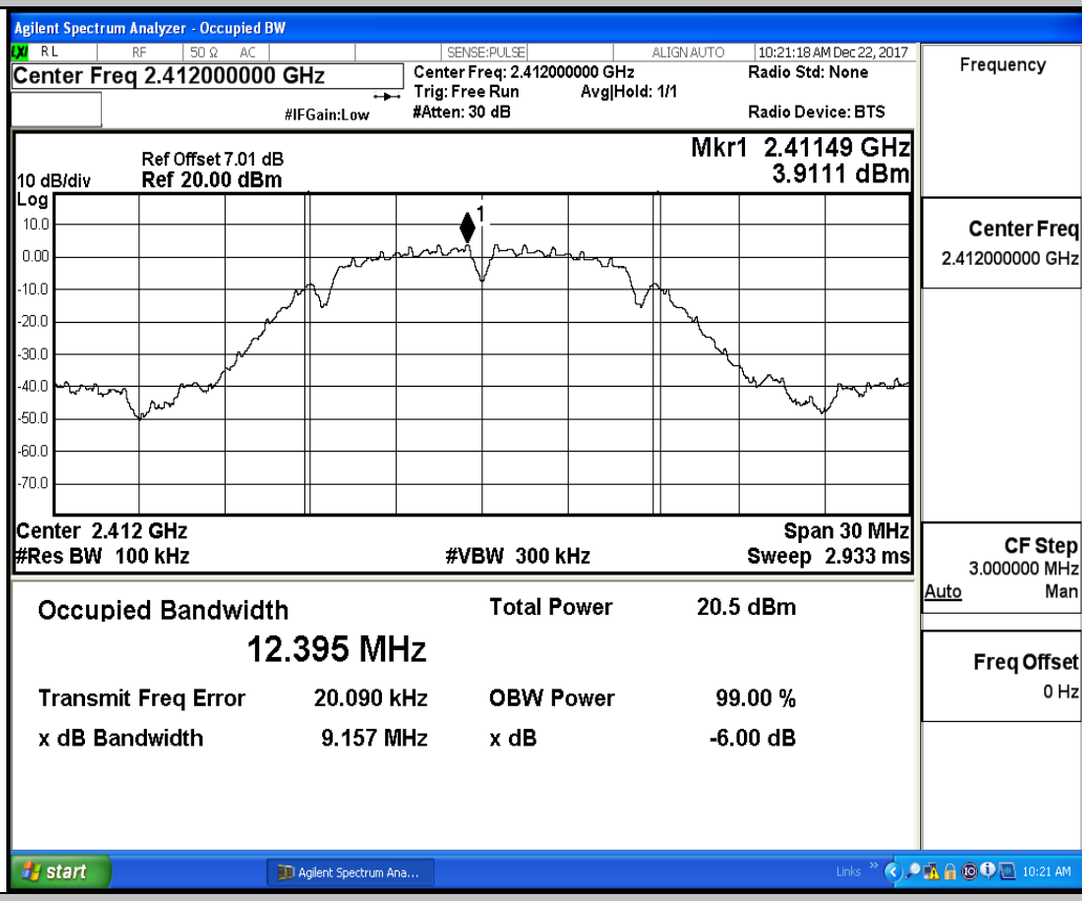
Appendix A
RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: WIFI Module
Trade Mark: RinLink
Test Model: G7682
FCC ID: 2AOI5-G7682

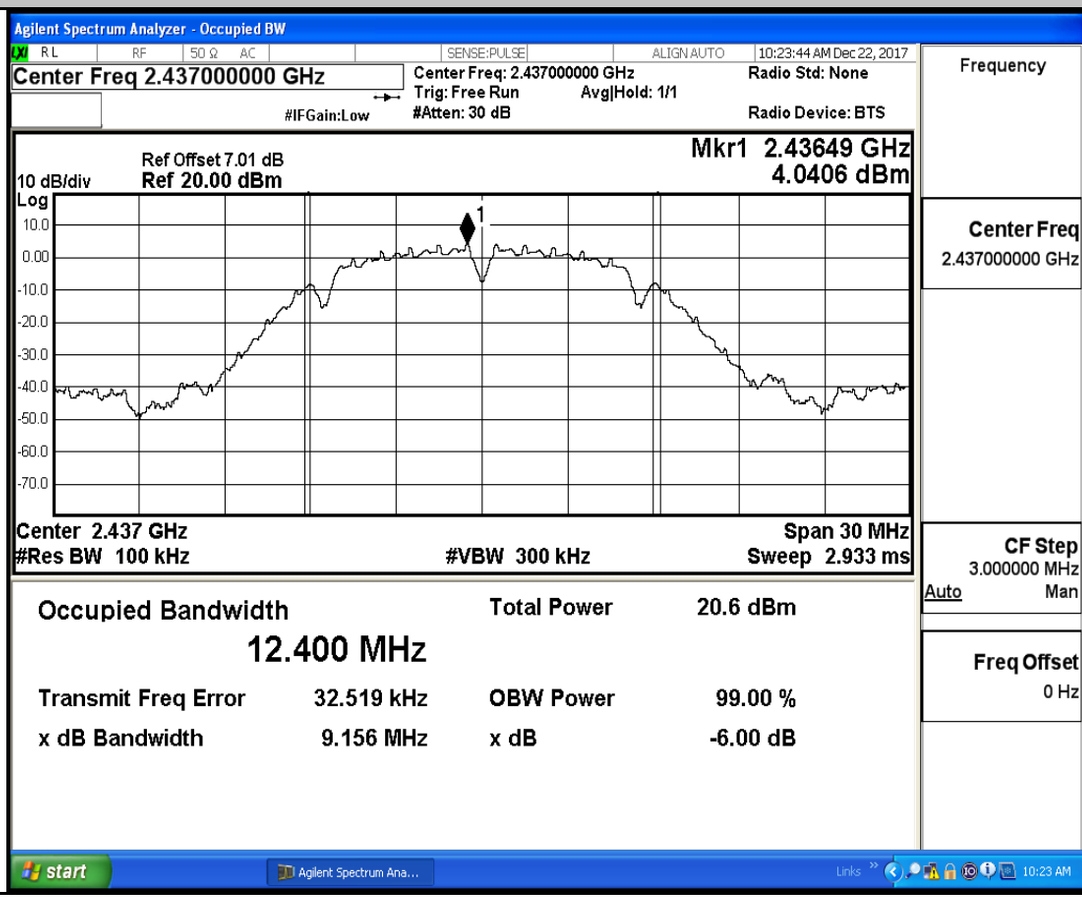
A.1 6dB Bandwidth

Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
11B	2412	Ant1	9.157	0.5	PASS
11B	2437	Ant1	9.156	0.5	PASS
11B	2462	Ant1	9.154	0.5	PASS
11G	2412	Ant1	16.62	0.5	PASS
11G	2437	Ant1	16.61	0.5	PASS
11G	2462	Ant1	16.60	0.5	PASS
11N20SISO	2412	Ant1	17.85	0.5	PASS
11N20SISO	2437	Ant1	17.83	0.5	PASS
11N20SISO	2462	Ant1	17.83	0.5	PASS
11N40SISO	2422	Ant1	36.49	0.5	PASS
11N40SISO	2437	Ant1	36.48	0.5	PASS
11N40SISO	2452	Ant1	36.48	0.5	PASS

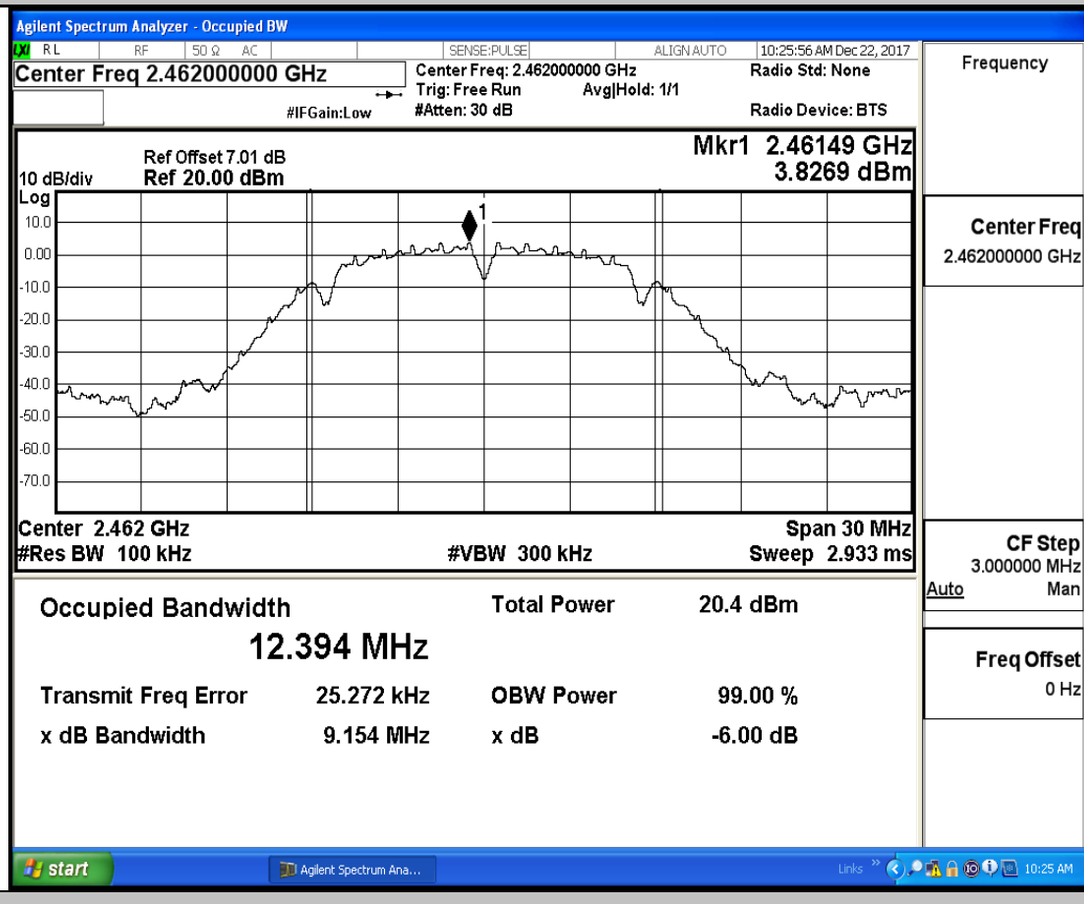
6dB Bandwidth_11B_2412_Ant1



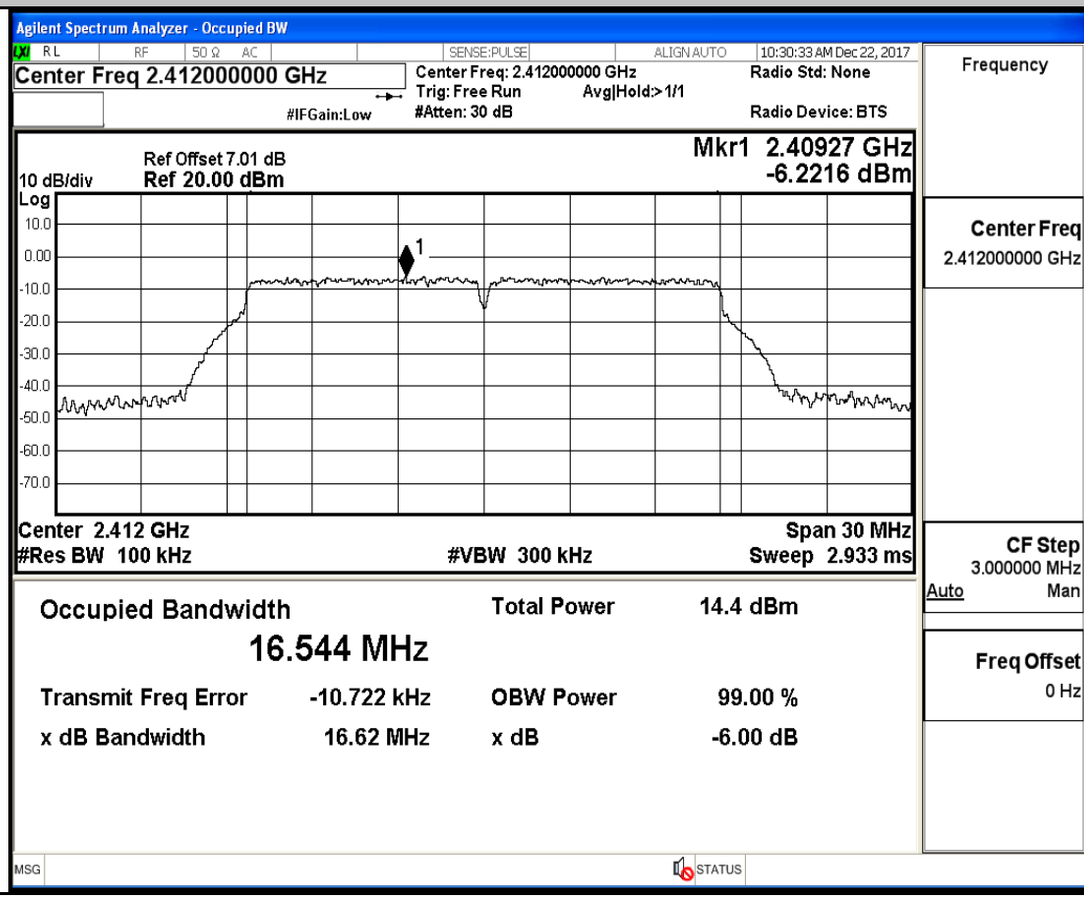
6dB Bandwidth_11B_2437_Ant1



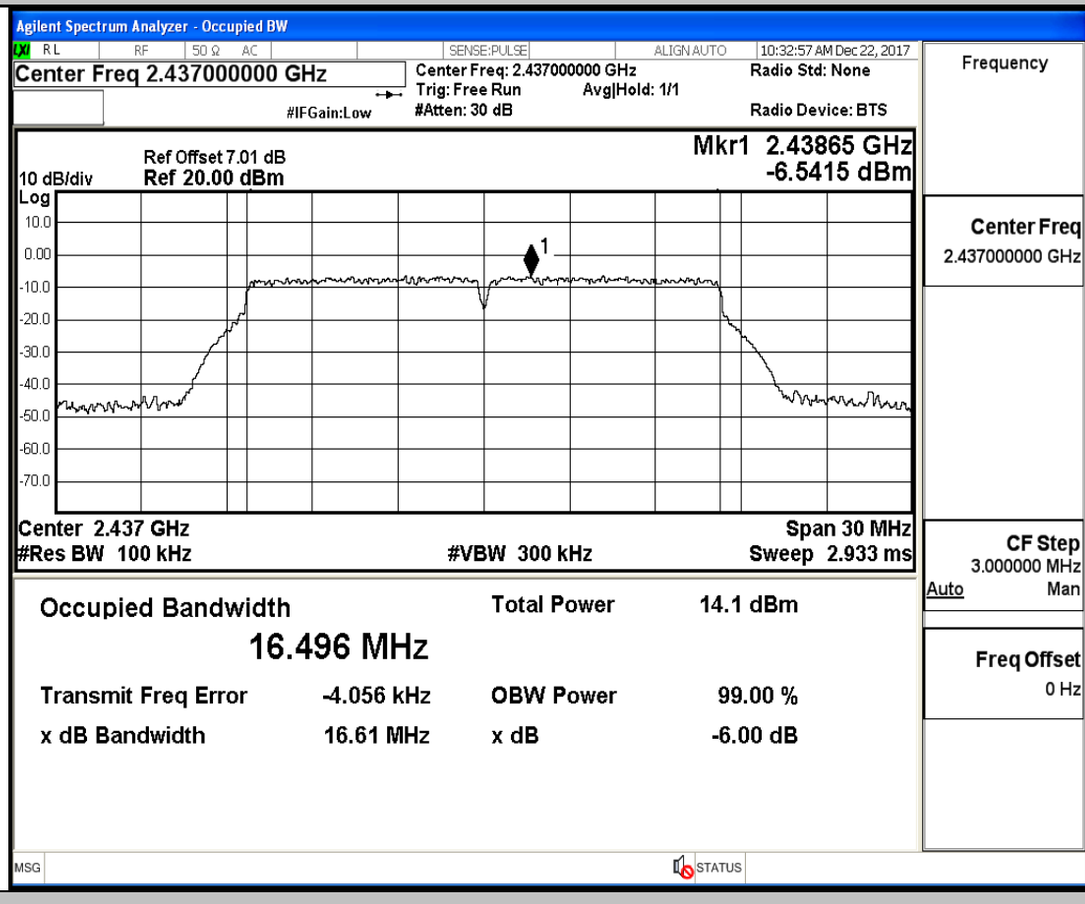
6dB Bandwidth_11B_2462_Ant1



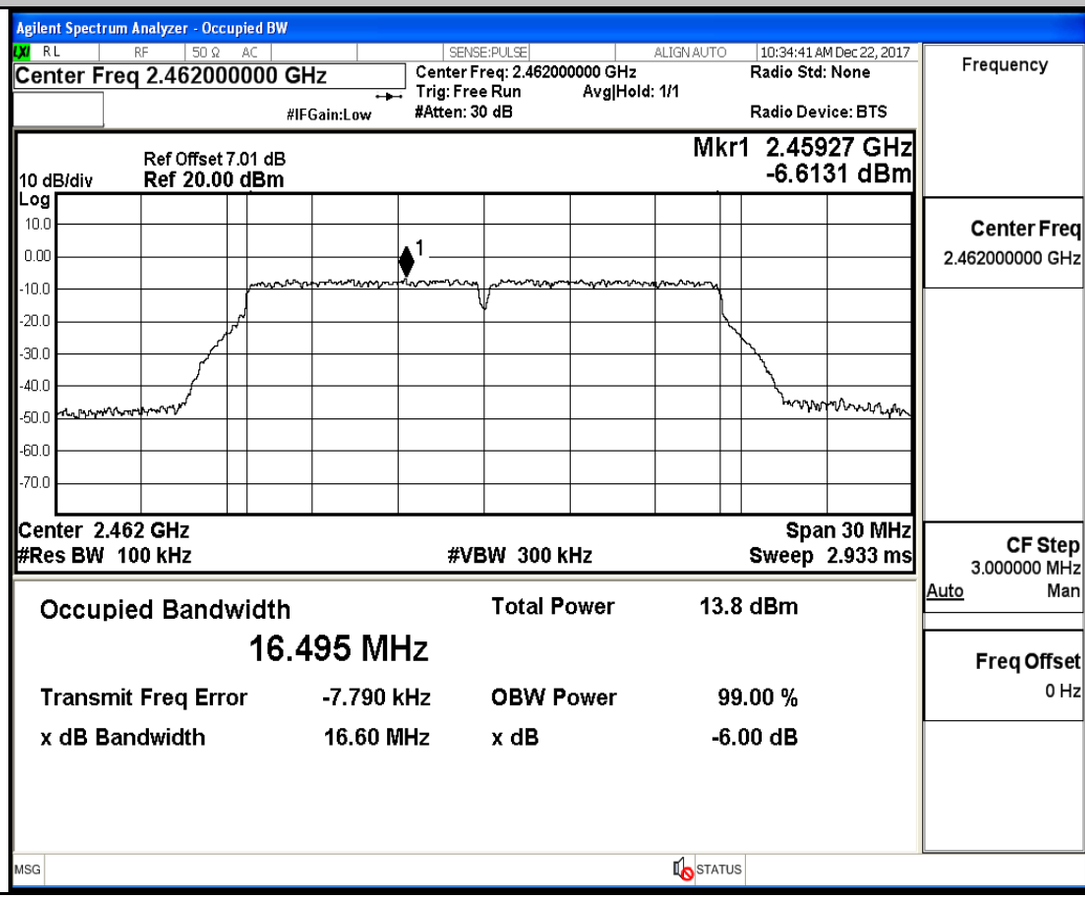
6dB Bandwidth_11G_2412_Ant1



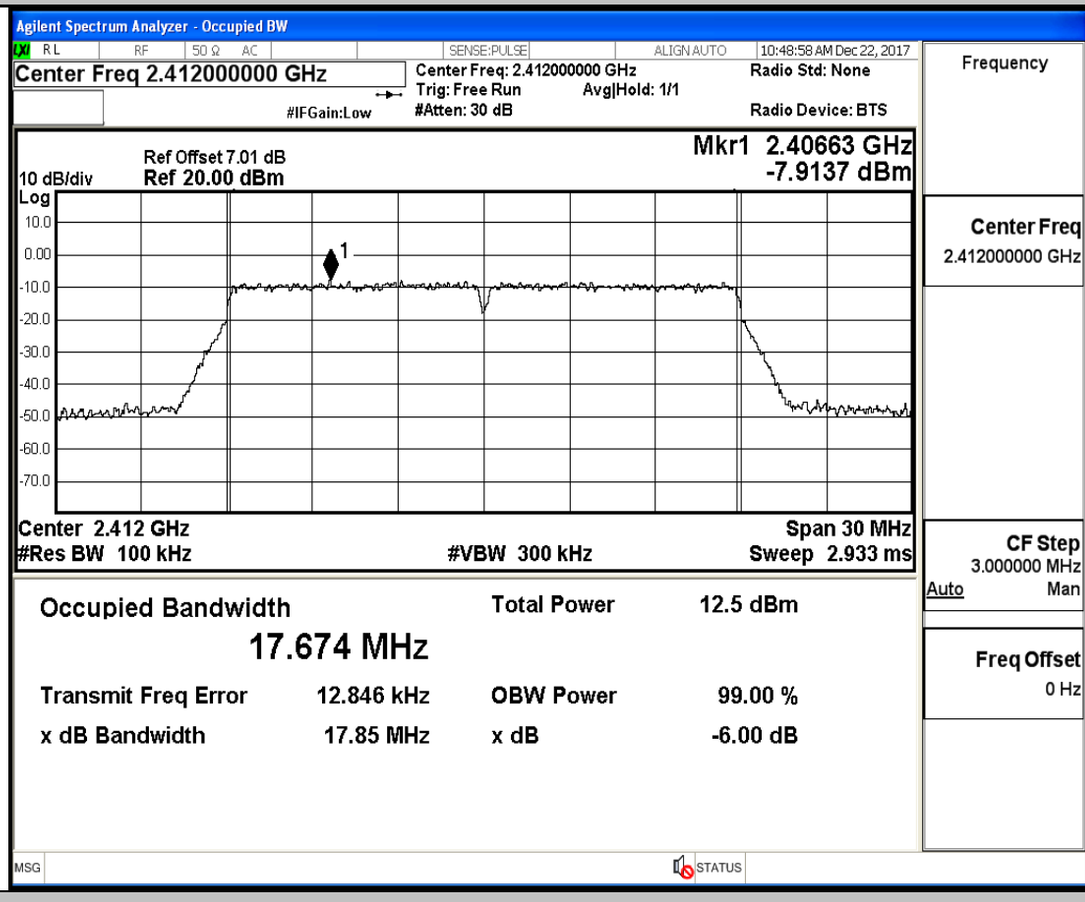
6dB Bandwidth_11G_2437_Ant1



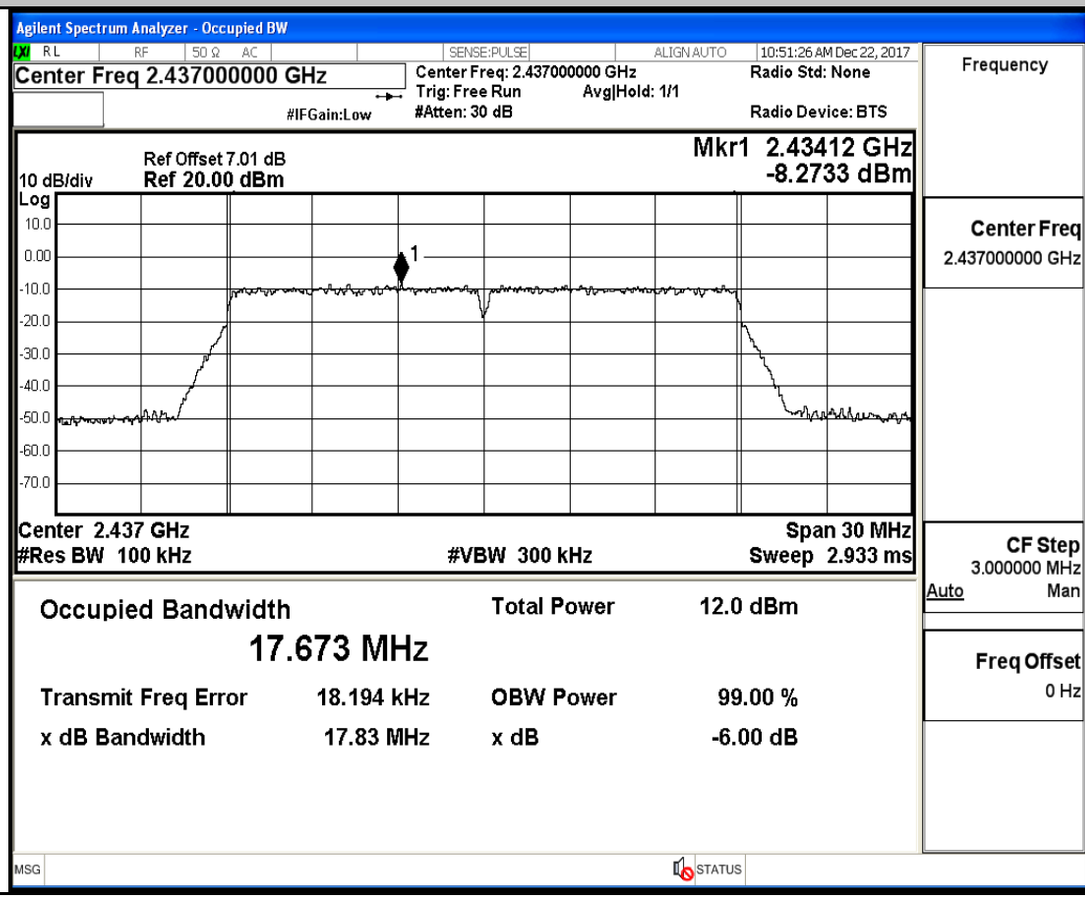
6dB Bandwidth_11G_2462_Ant1



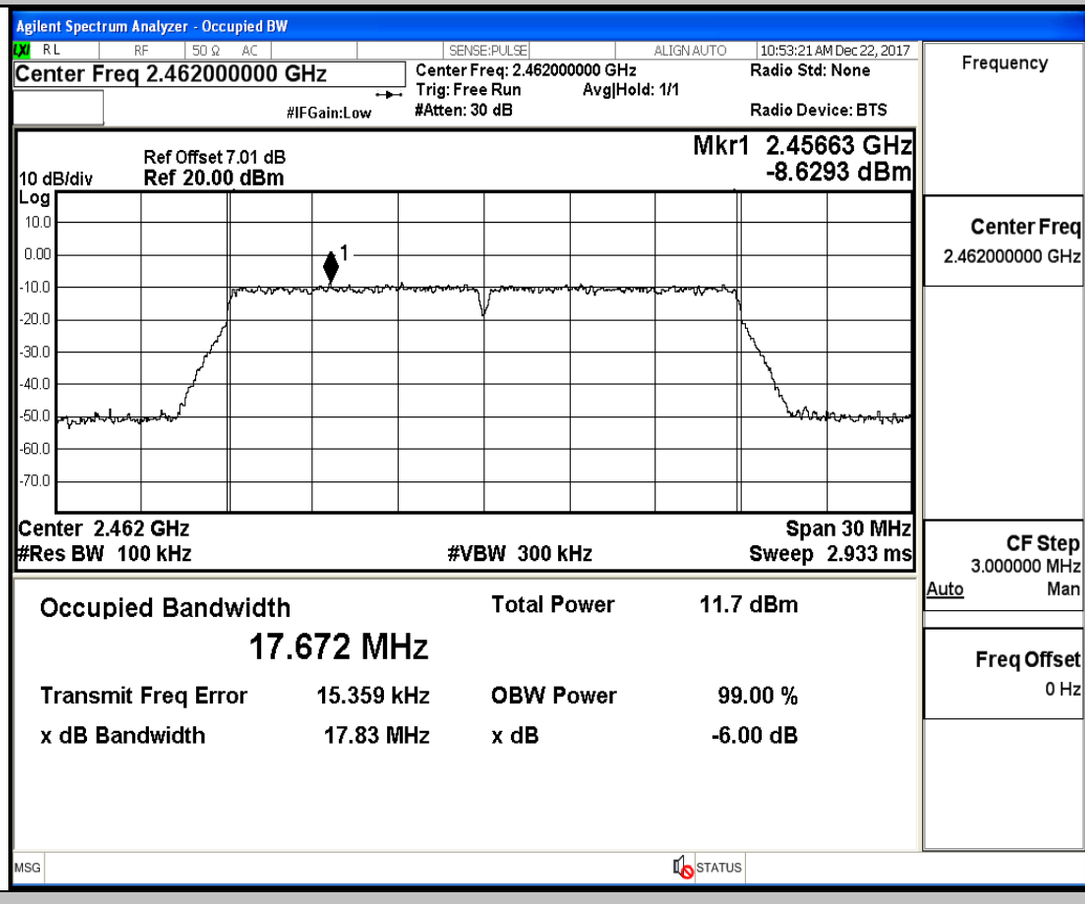
6dB Bandwidth_11N20SISO_2412_Ant1



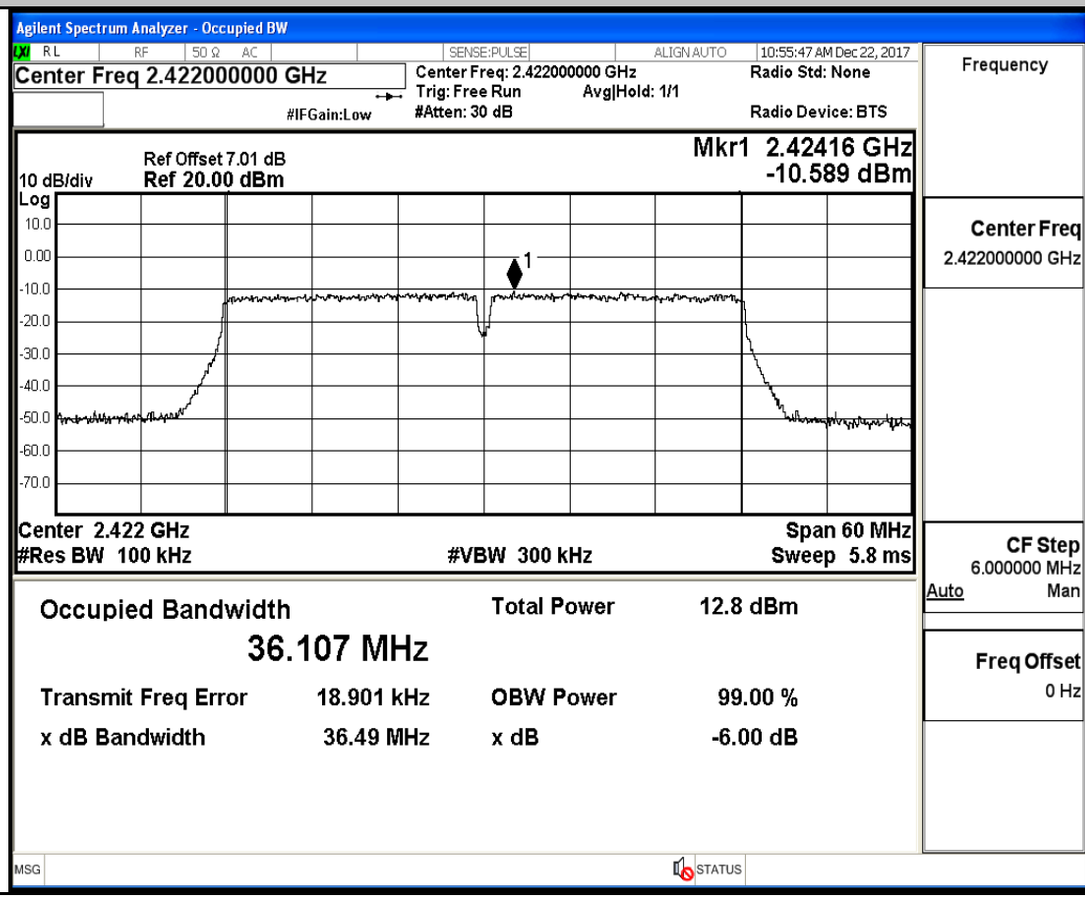
6dB Bandwidth_11N20SISO_2437_Ant1



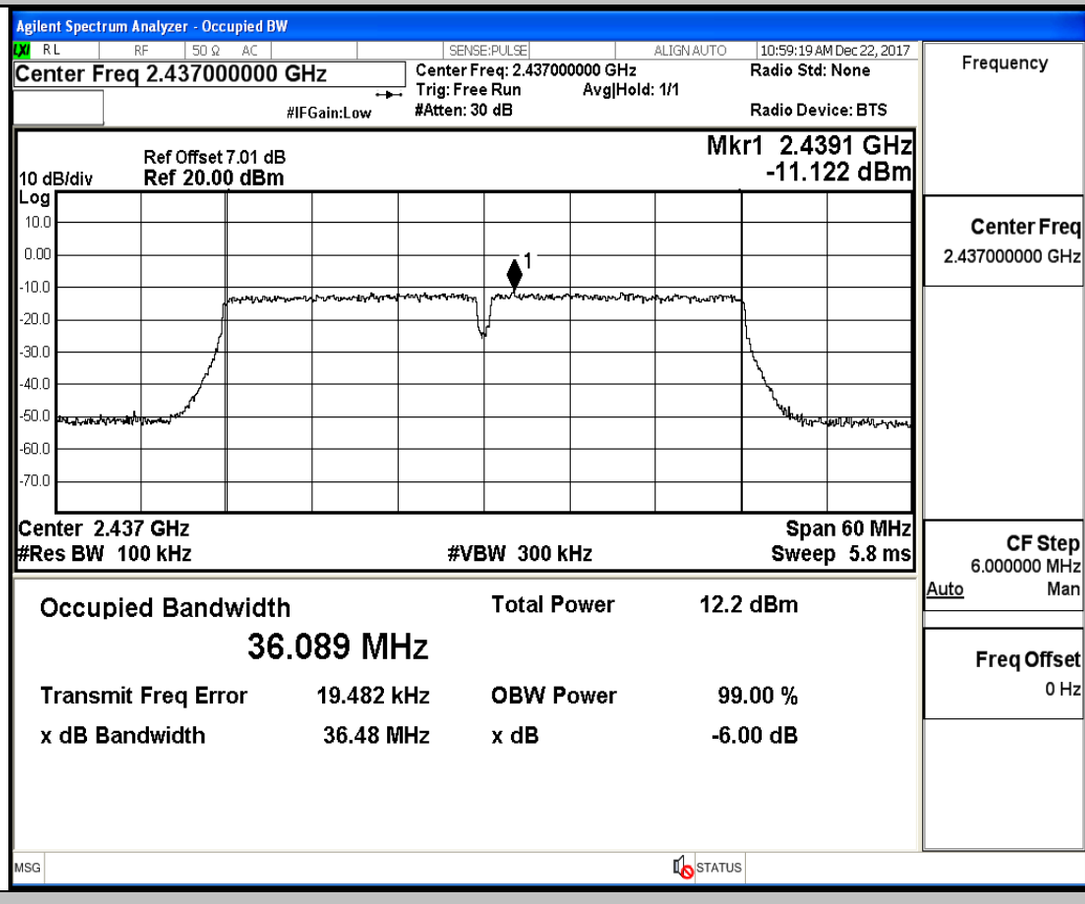
6dB Bandwidth_11N20SISO_2462_Ant1



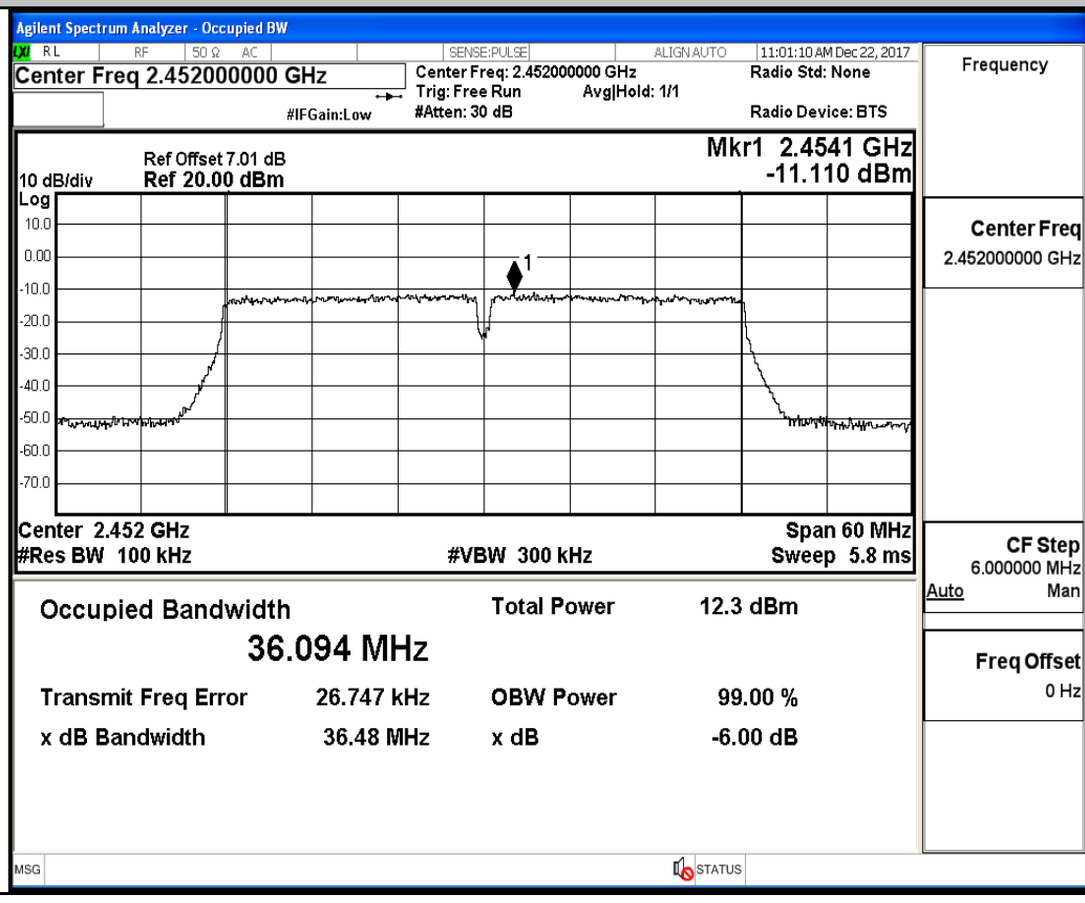
6dB Bandwidth_11N40SISO_2422_Ant1



6dB Bandwidth_11N40SISO_2437_Ant1



6dB Bandwidth_11N40SISO_2452_Ant1



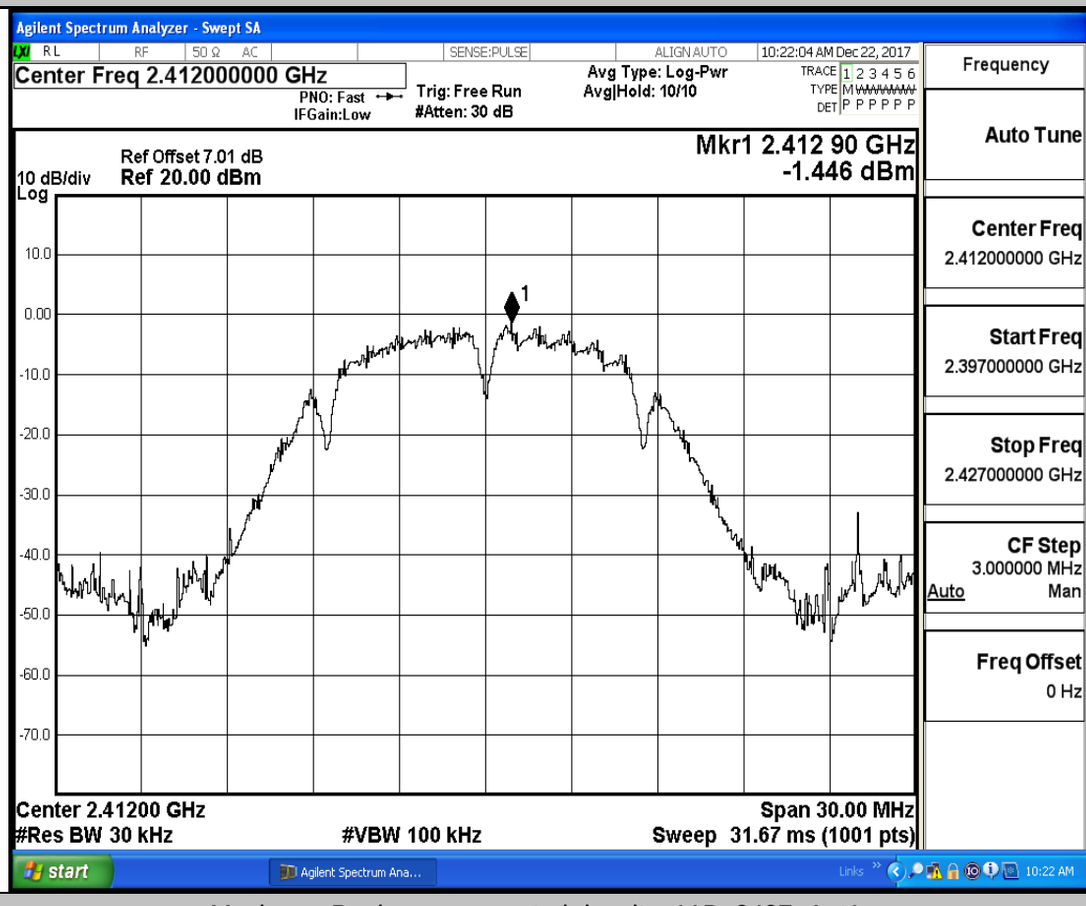
A.2 Maximum peak conducted output power

Test Mode	Test Channel	Ant	Peak Power (dBm)	Limit[dBm]	Verdict
11B	2412	Ant1	16.51	30	PASS
11B	2437	Ant1	16.65	30	PASS
11B	2462	Ant1	16.42	30	PASS
11G	2412	Ant1	15.72	30	PASS
11G	2437	Ant1	15.44	30	PASS
11G	2462	Ant1	15.13	30	PASS
11N20SISO	2412	Ant1	14.07	30	PASS
11N20SISO	2437	Ant1	13.48	30	PASS
11N20SISO	2462	Ant1	13.21	30	PASS
11N40SISO	2422	Ant1	14.19	30	PASS
11N40SISO	2437	Ant1	13.55	30	PASS
11N40SISO	2452	Ant1	13.68	30	PASS

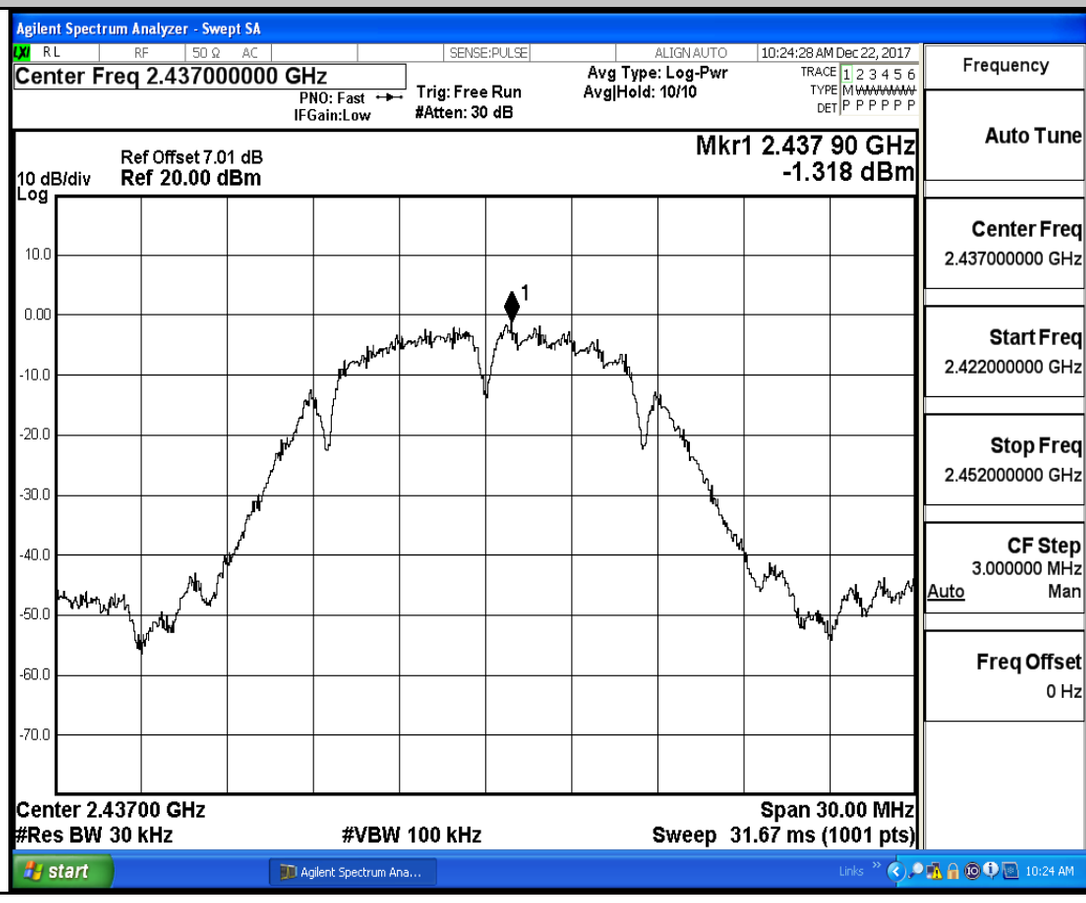
A.3 Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/30KHz]	Limit[dBm/3KHz]	Verdict
11B	2412	Ant1	-1.446	8.00	PASS
11B	2437	Ant1	-1.318	8.00	PASS
11B	2462	Ant1	-1.51	8.00	PASS
11G	2412	Ant1	-9.119	8.00	PASS
11G	2437	Ant1	-9.495	8.00	PASS
11G	2462	Ant1	-9.323	8.00	PASS
11N20SISO	2412	Ant1	-10.384	8.00	PASS
11N20SISO	2437	Ant1	-11.206	8.00	PASS
11N20SISO	2462	Ant1	-11.16	8.00	PASS
11N40SISO	2422	Ant1	-14.05	8.00	PASS
11N40SISO	2437	Ant1	-14.458	8.00	PASS
11N40SISO	2452	Ant1	-14.429	8.00	PASS

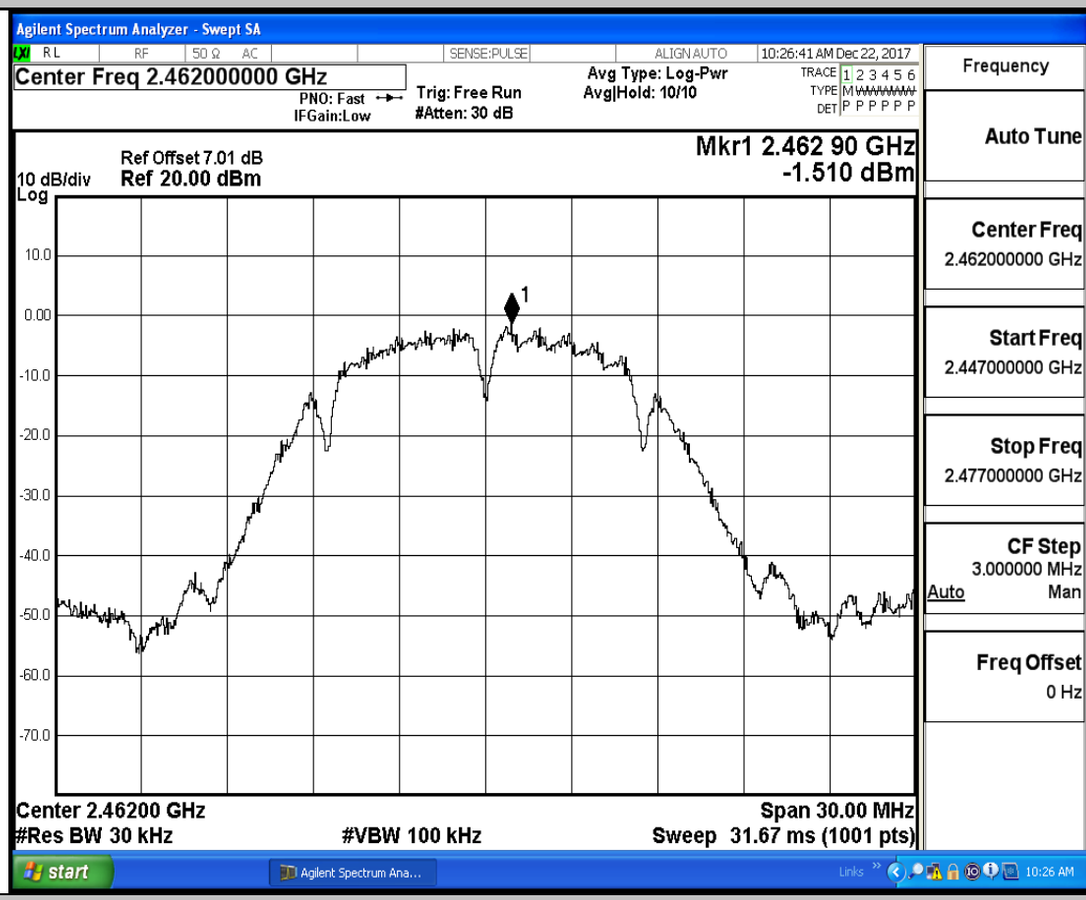
Maximum Peak power spectral density_11B_2412_Ant1



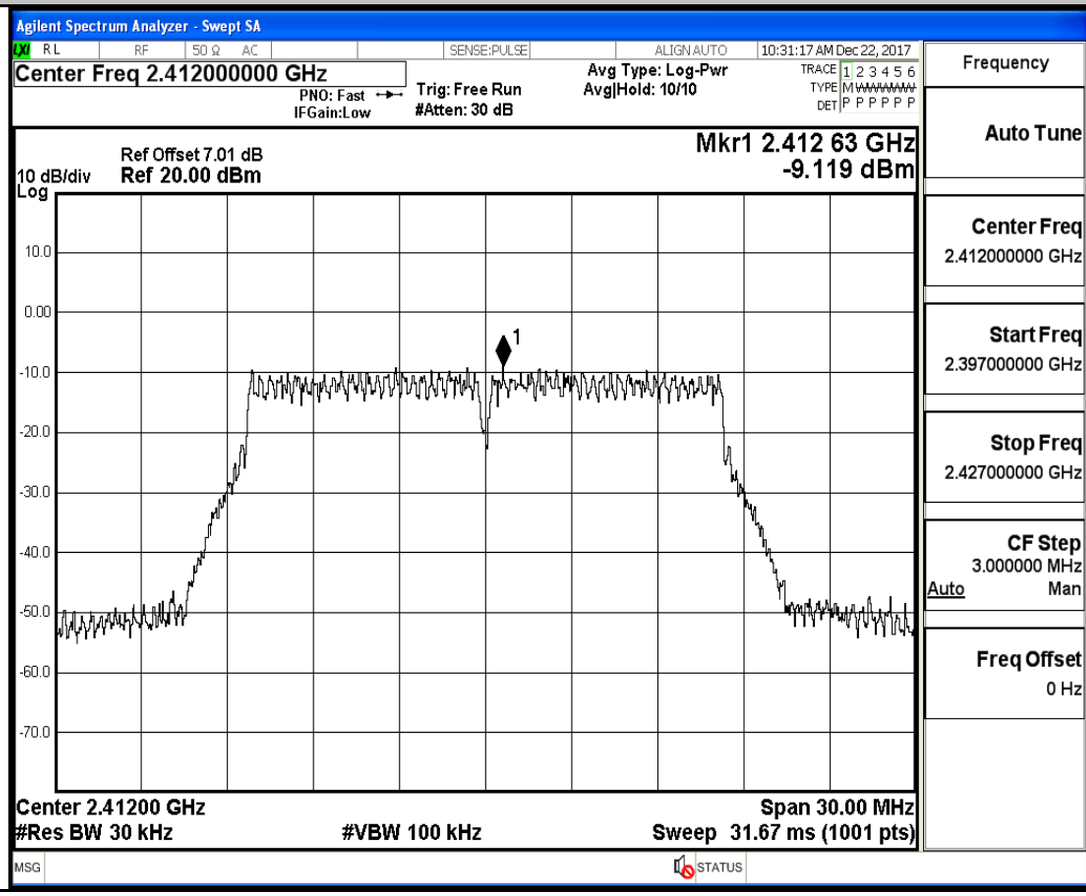
Maximum Peak power spectral density_11B_2437_Ant1



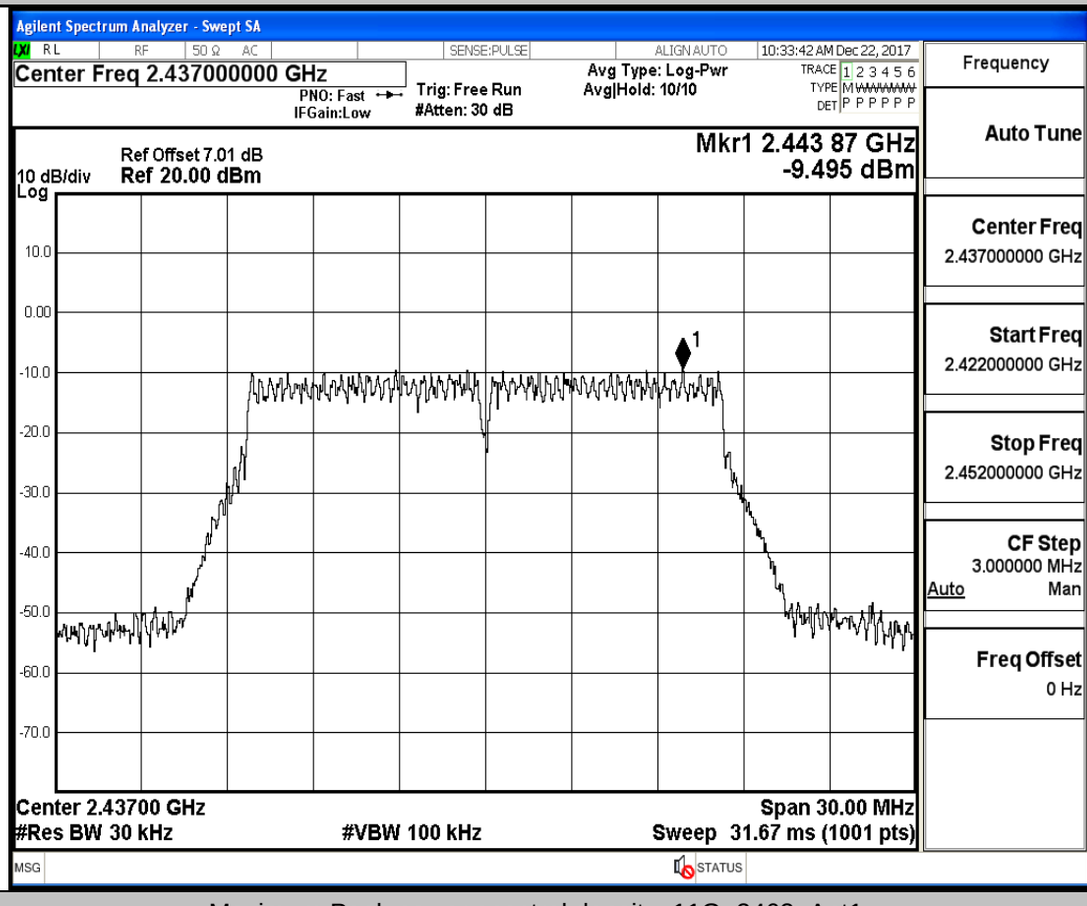
Maximum Peak power spectral density_11B_2462_Ant1



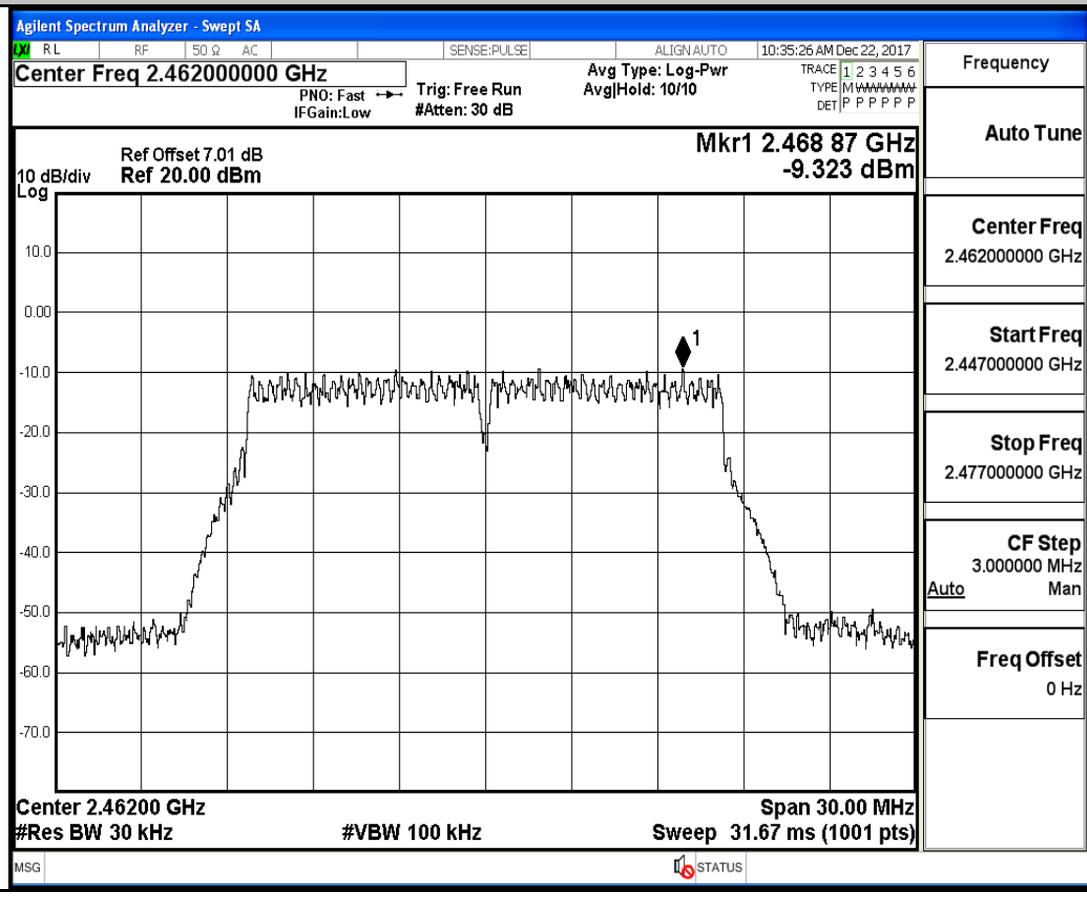
Maximum Peak power spectral density_11G_2412_Ant1



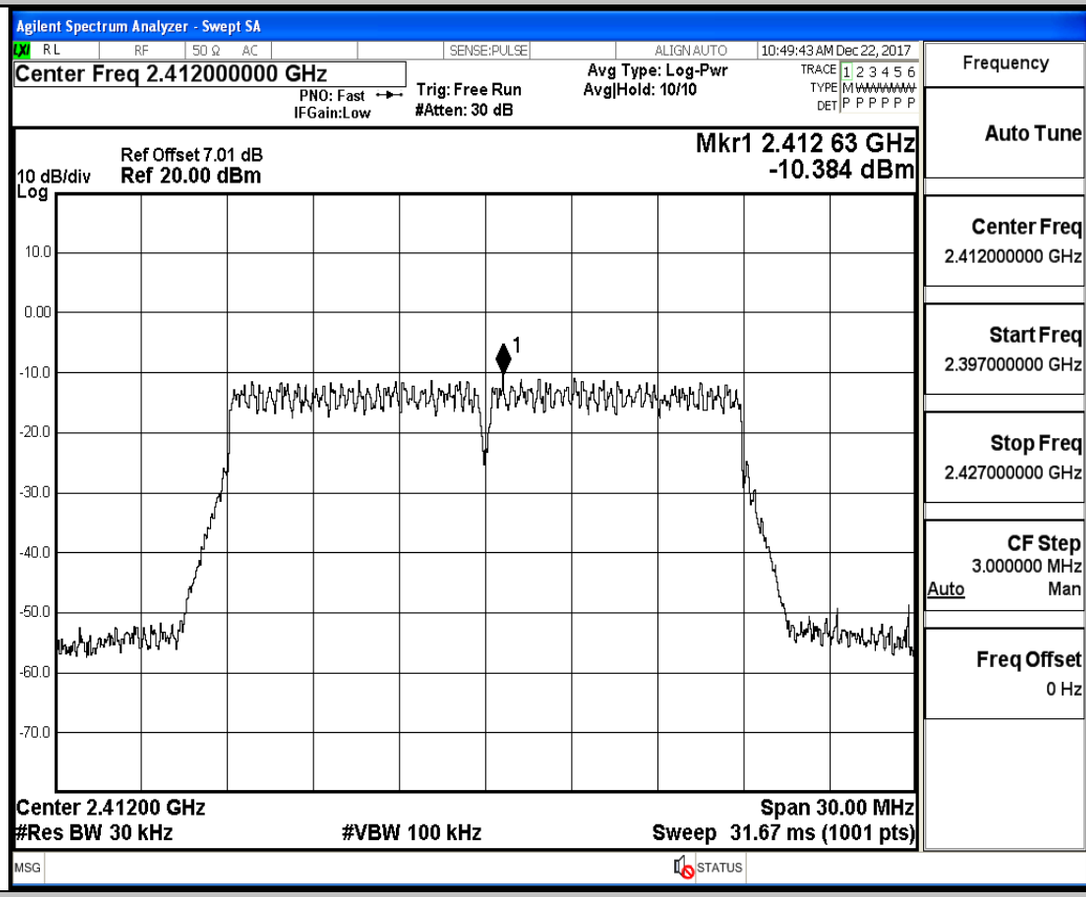
Maximum Peak power spectral density_11G_2437_Ant1



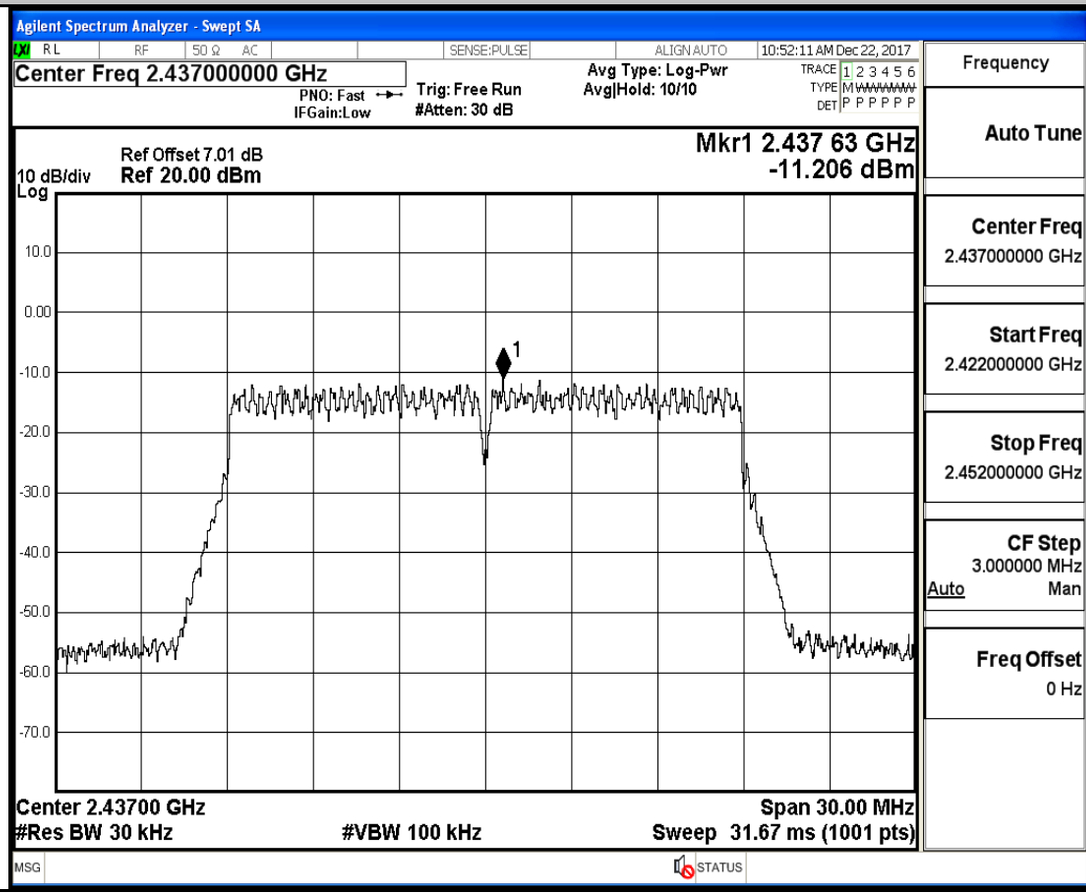
Maximum Peak power spectral density_11G_2462_Ant1



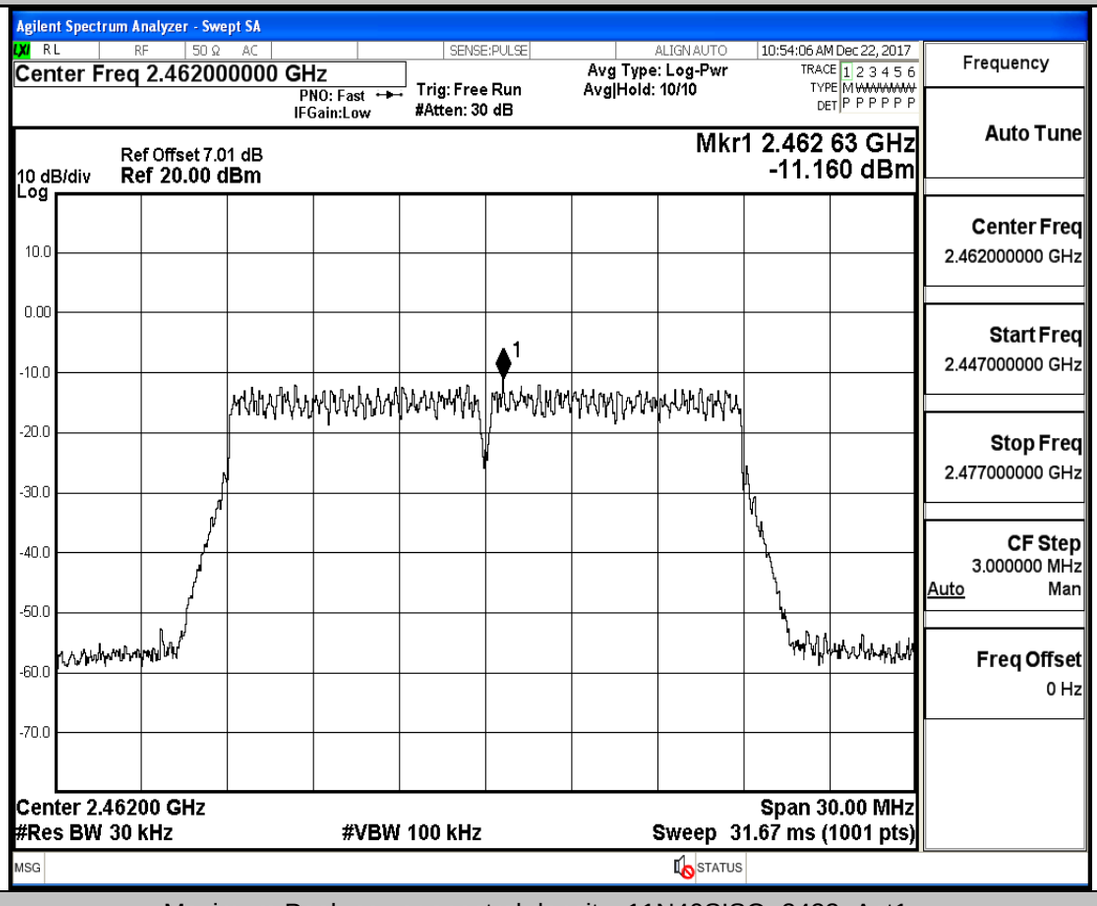
Maximum Peak power spectral density_11N20SISO_2412_Ant1



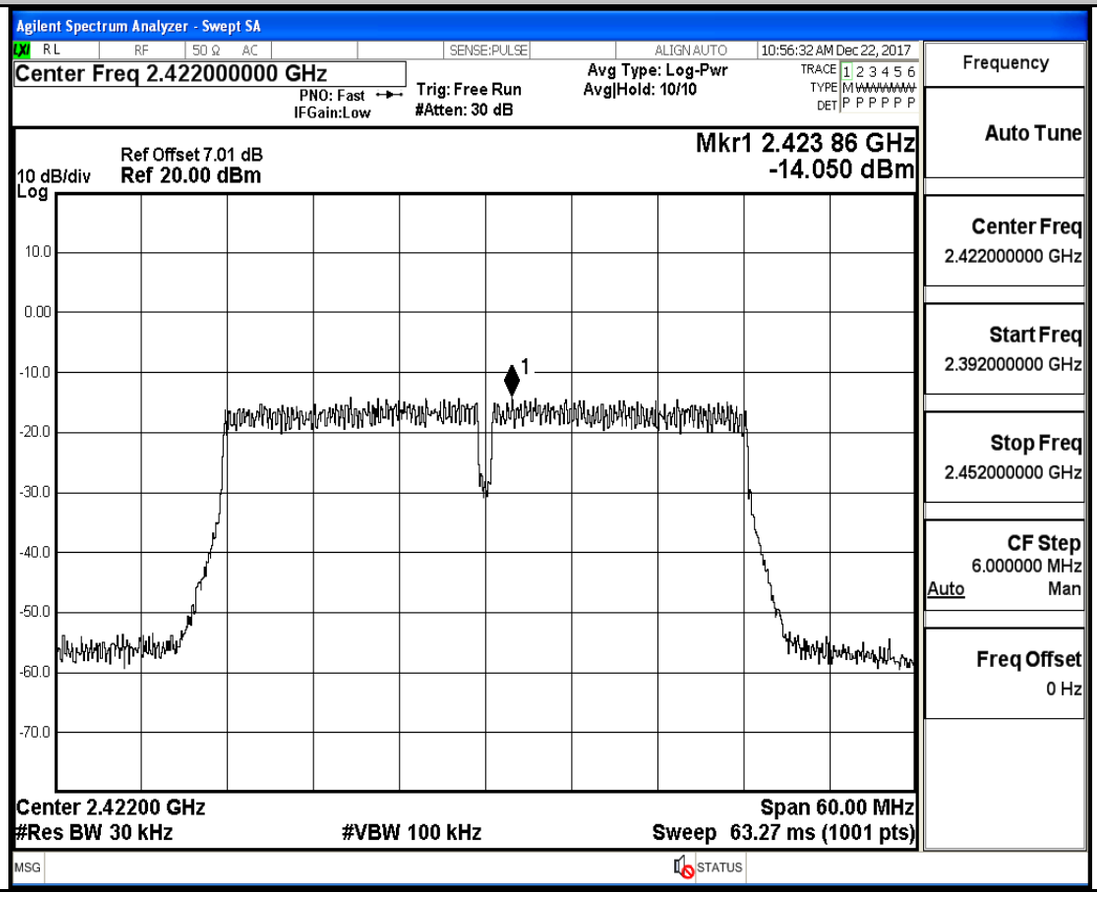
Maximum Peak power spectral density_11N20SISO_2437_Ant1



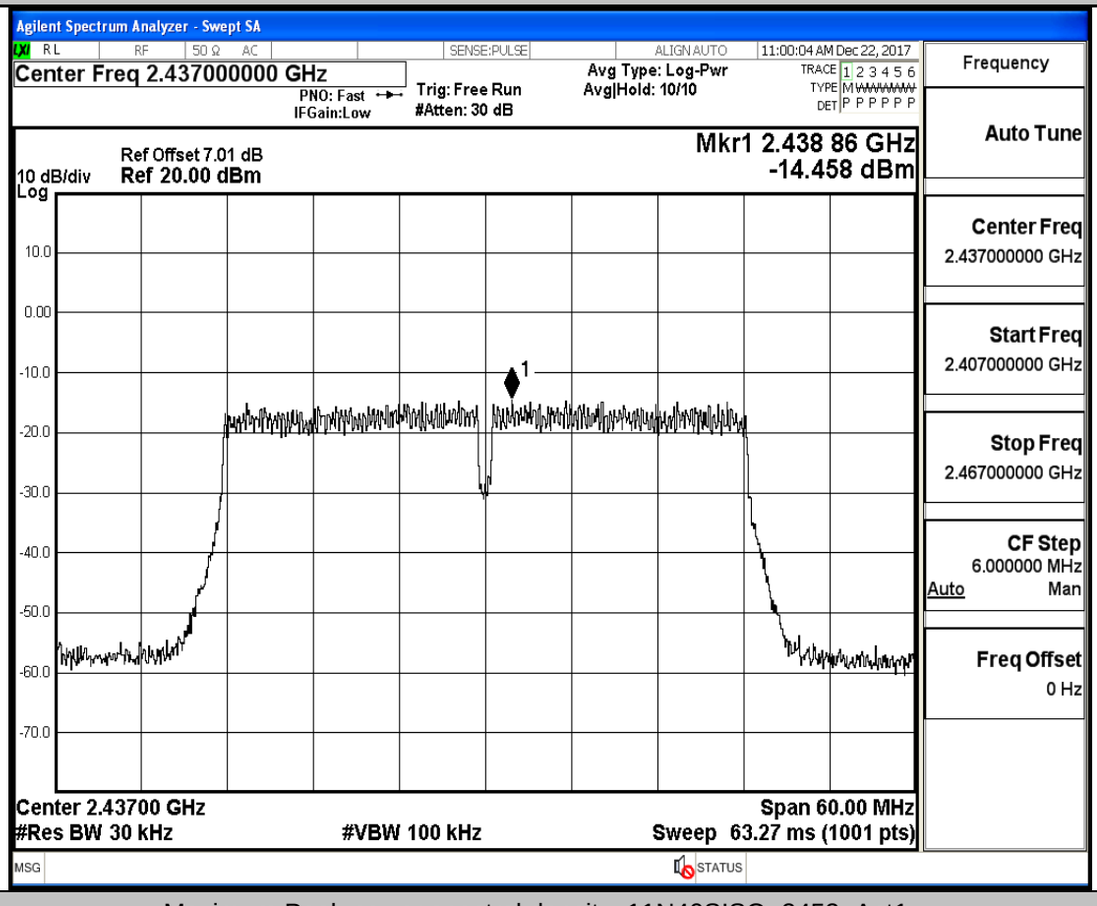
Maximum Peak power spectral density_11N20SISO_2462_Ant1



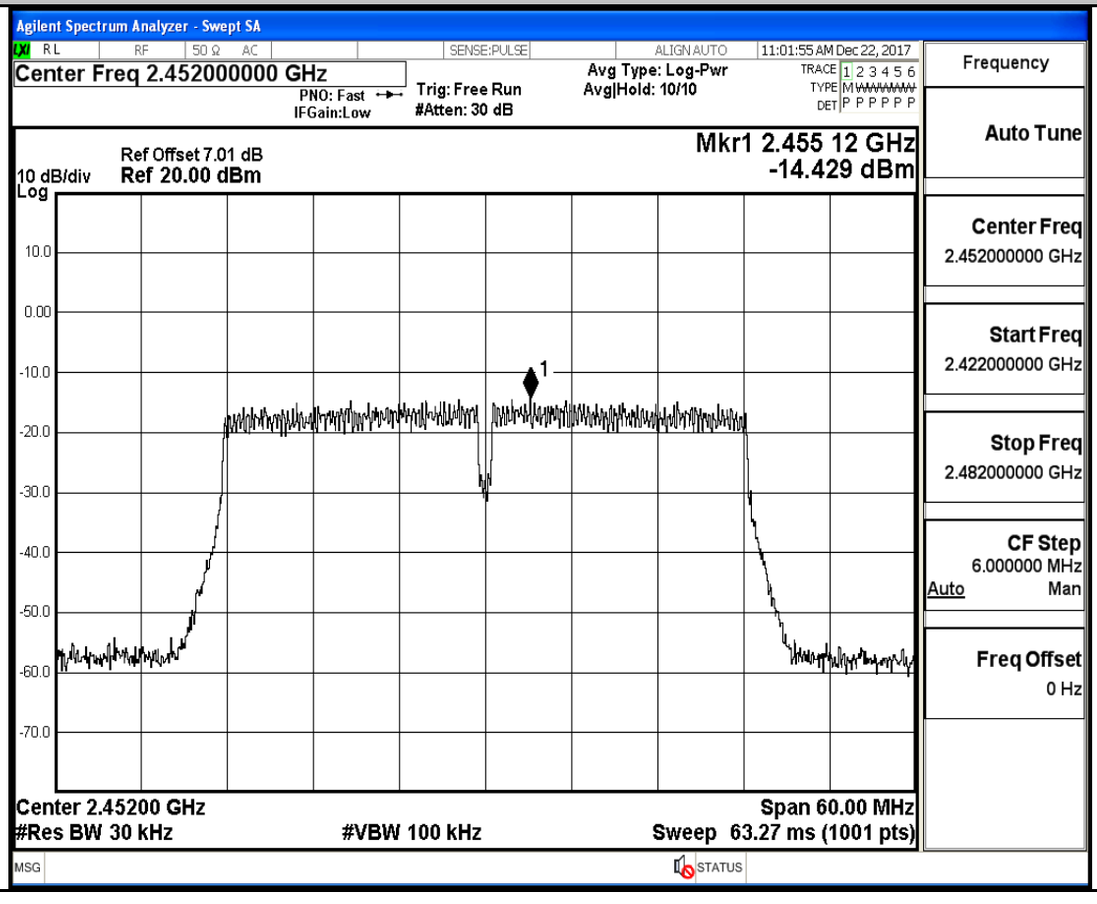
Maximum Peak power spectral density_11N40SISO_2422_Ant1



Maximum Peak power spectral density_11N40SISO_2437_Ant1



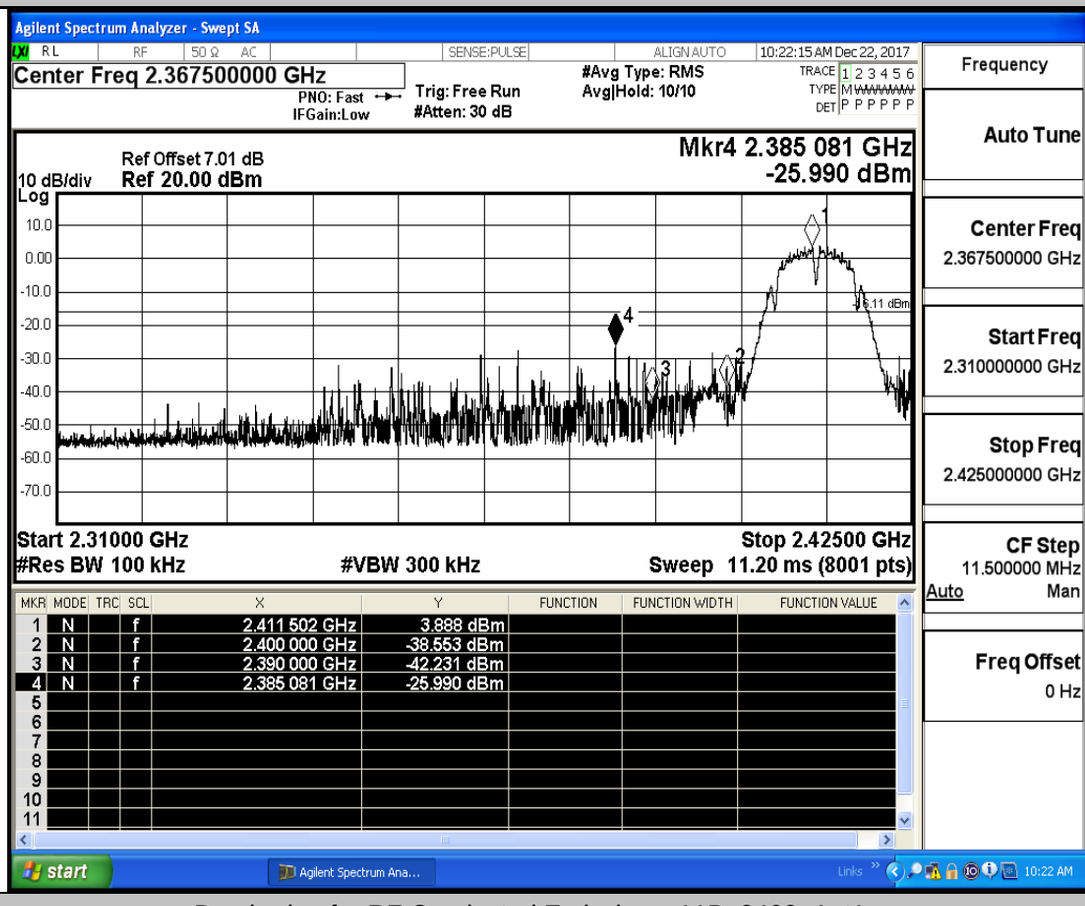
Maximum Peak power spectral density_11N40SISO_2452_Ant1



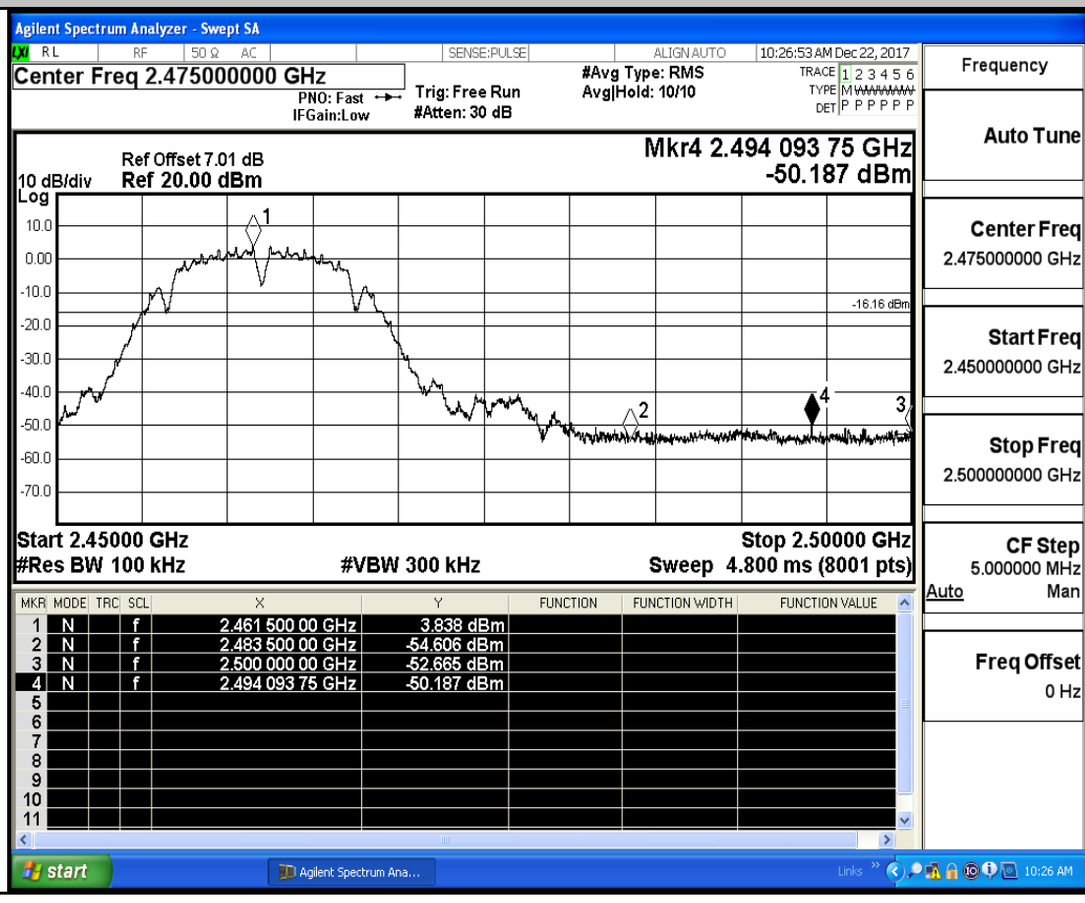
A.4 Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	3.888	-25.990	-16.11	PASS
11B	2462	Ant1	3.838	-50.187	-16.16	PASS
11G	2412	Ant1	-6.254	-49.988	-26.25	PASS
11G	2462	Ant1	-6.725	-49.529	-26.73	PASS
11N20SISO	2412	Ant1	-7.980	-50.129	-27.98	PASS
11N20SISO	2462	Ant1	-8.660	-50.845	-28.66	PASS
11N40SISO	2422	Ant1	-11.217	-49.816	-31.22	PASS
11N40SISO	2452	Ant1	-11.103	-51.011	-31.1	PASS

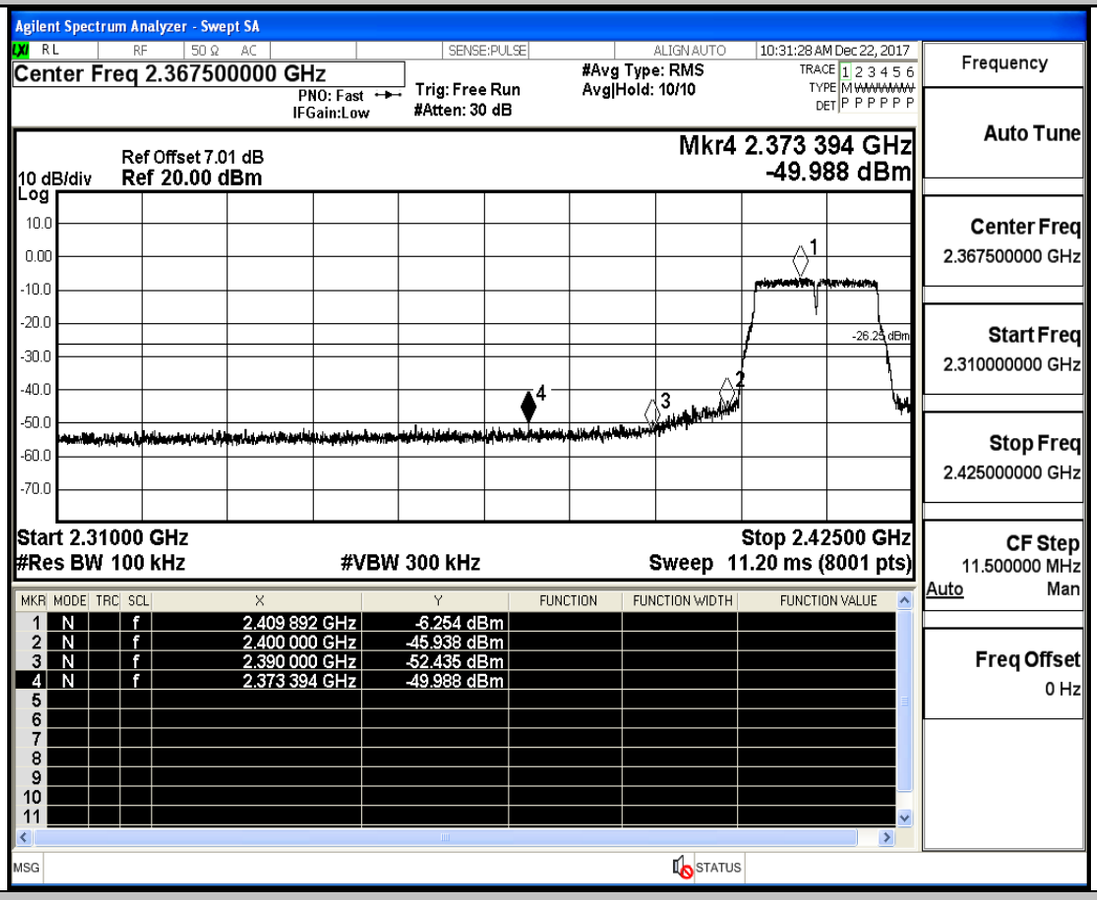
Band-edge for RF Conducted Emissions_11B_2412_Ant1



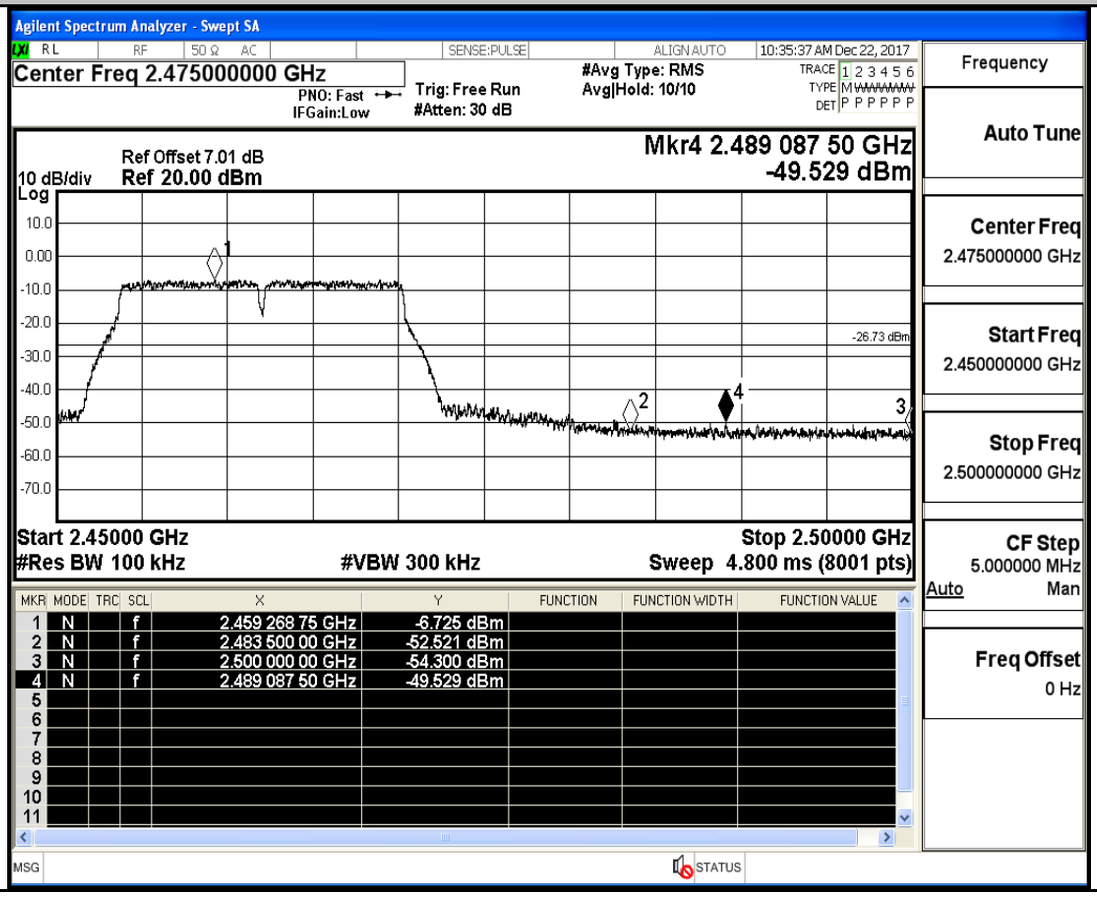
Band-edge for RF Conducted Emissions_11B_2462_Ant1



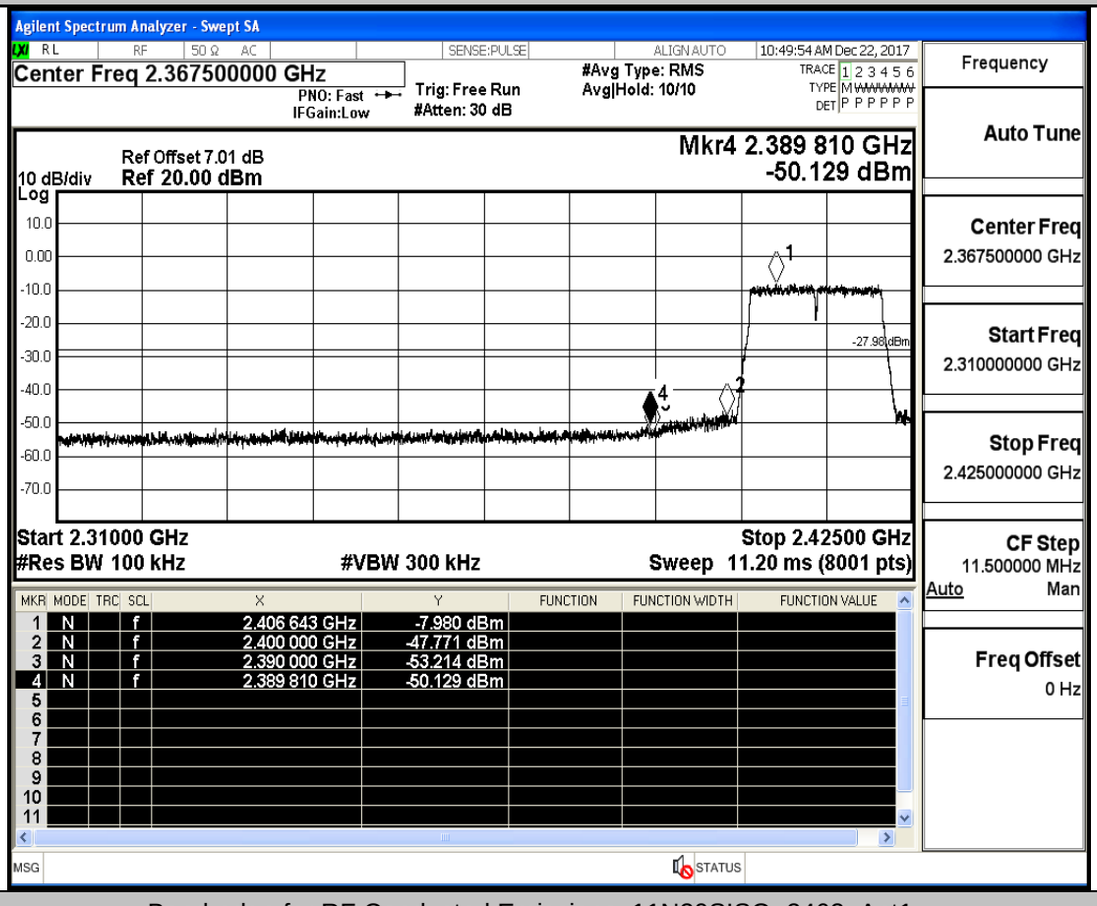
Band-edge for RF Conducted Emissions_11G_2412_Ant1



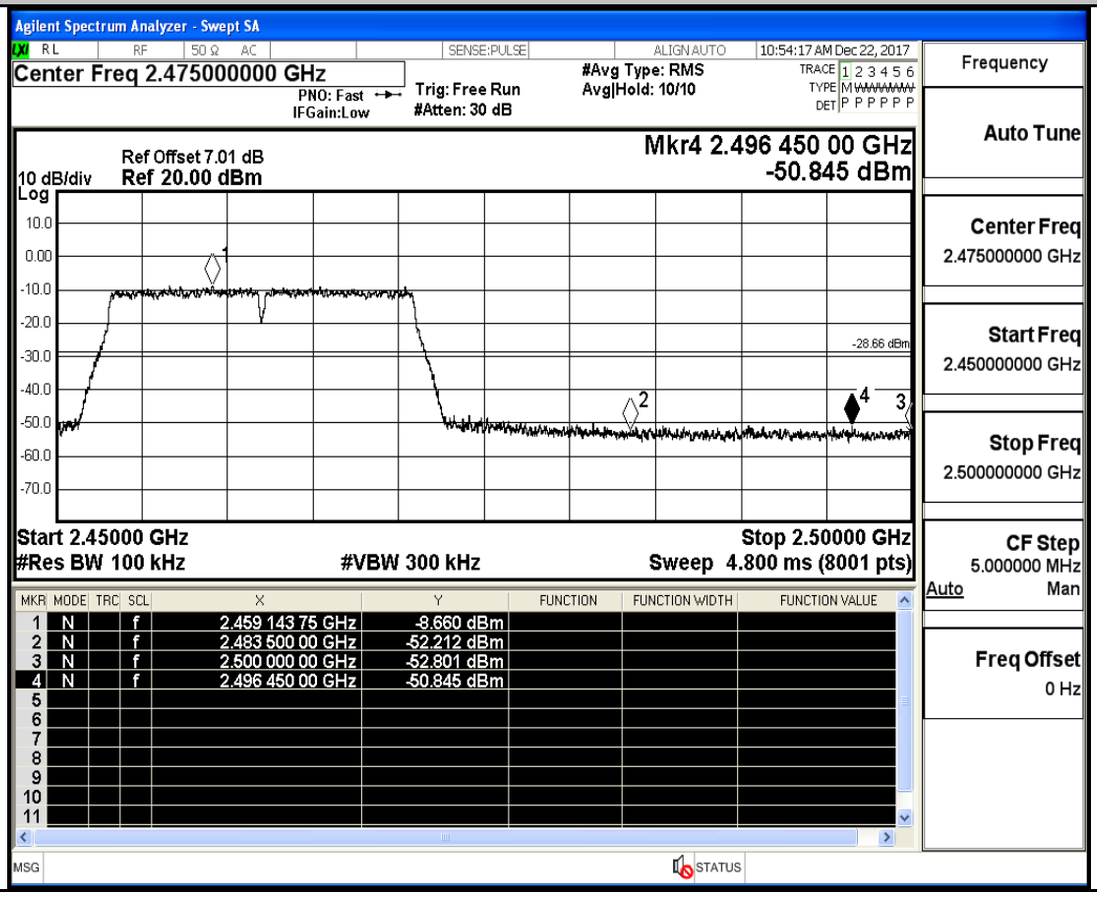
Band-edge for RF Conducted Emissions_11G_2462_Ant1



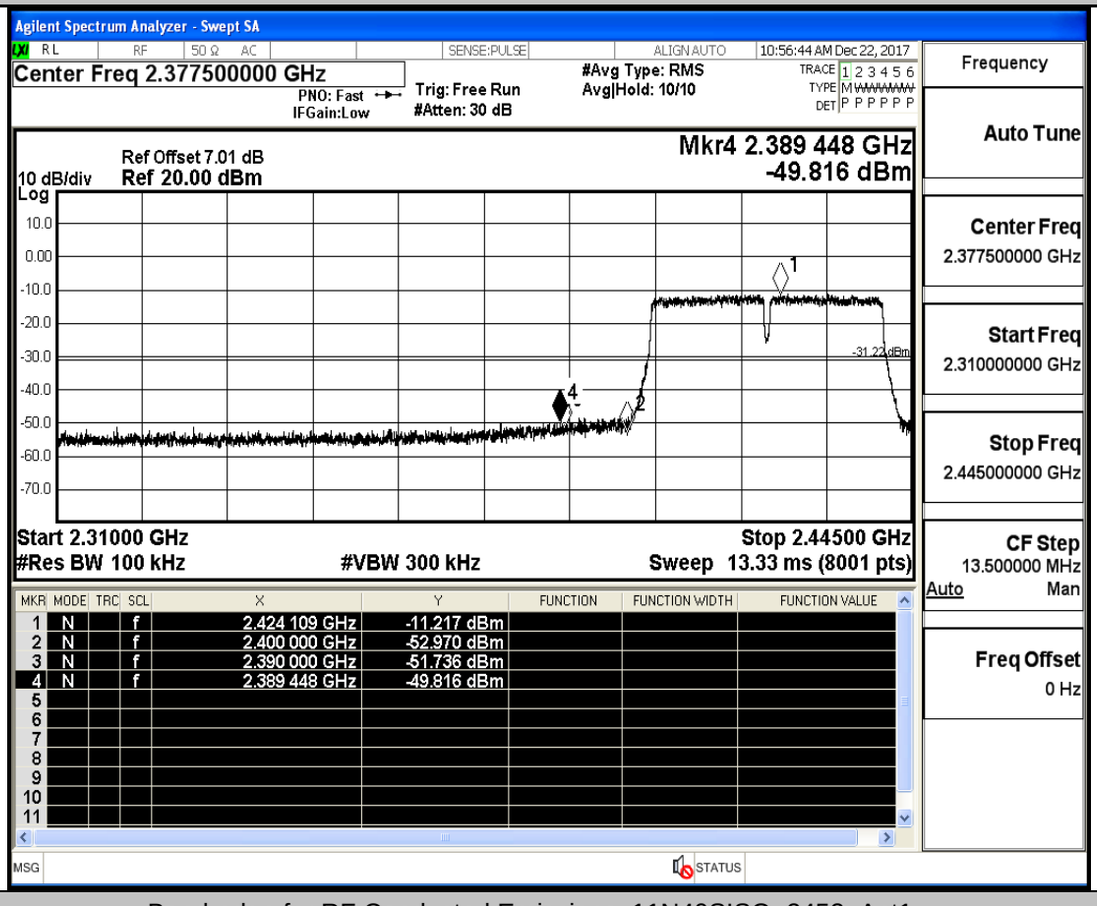
Band-edge for RF Conducted Emissions_11N20SISO_2412_Ant1



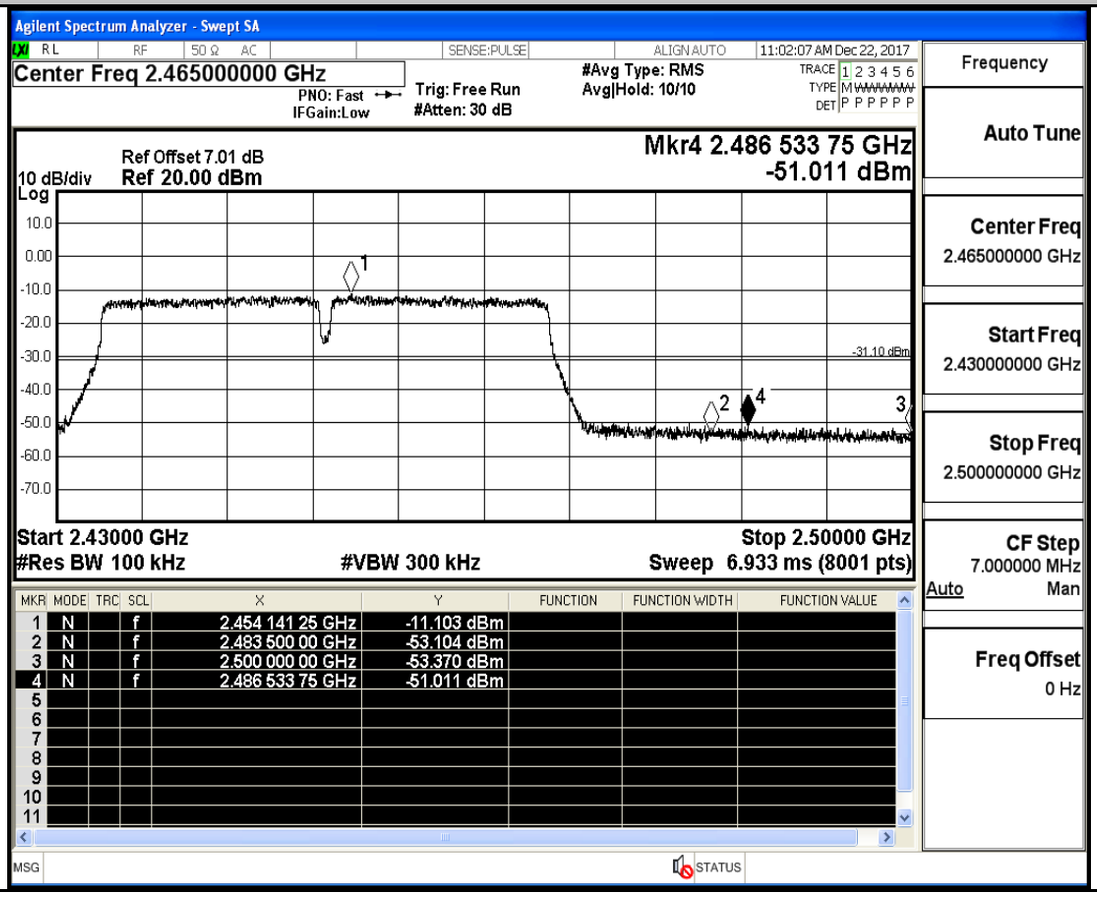
Band-edge for RF Conducted Emissions_11N20SISO_2462_Ant1



Band-edge for RF Conducted Emissions_11N40SISO_2422_Ant1



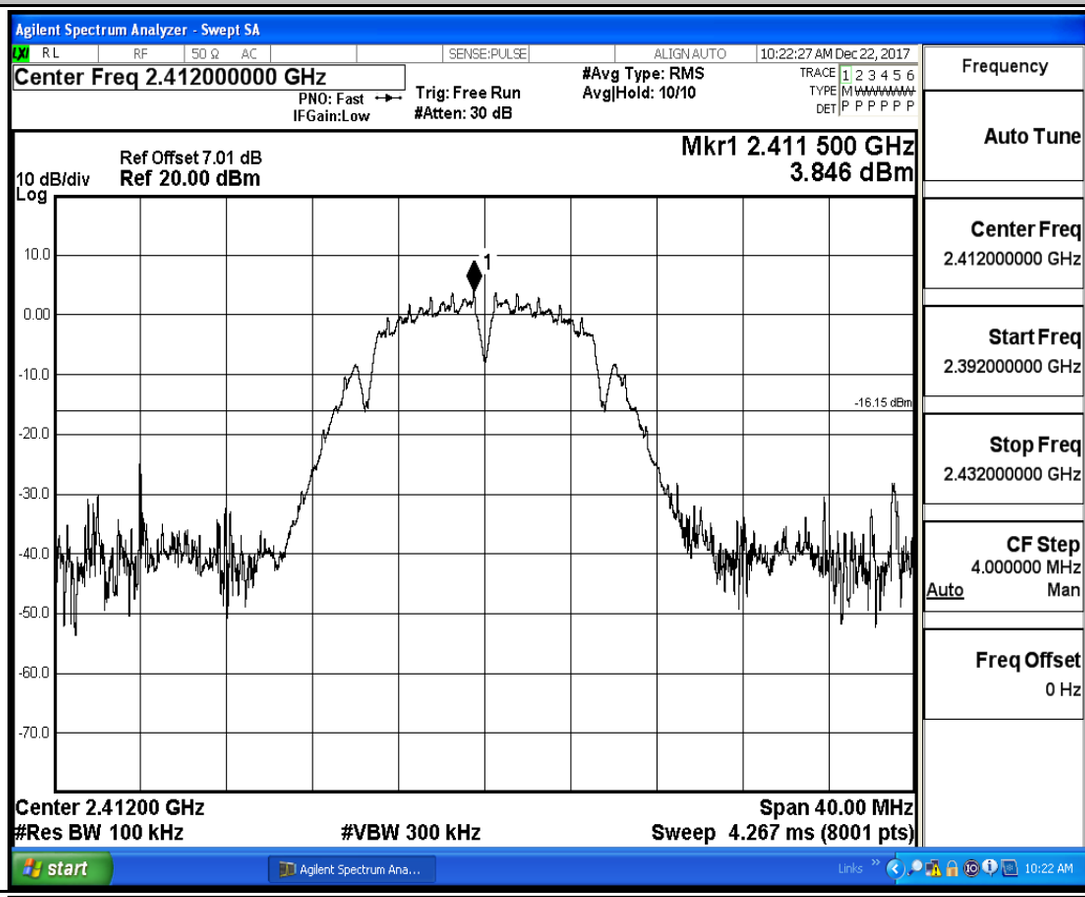
Band-edge for RF Conducted Emissions_11N40SISO_2452_Ant1

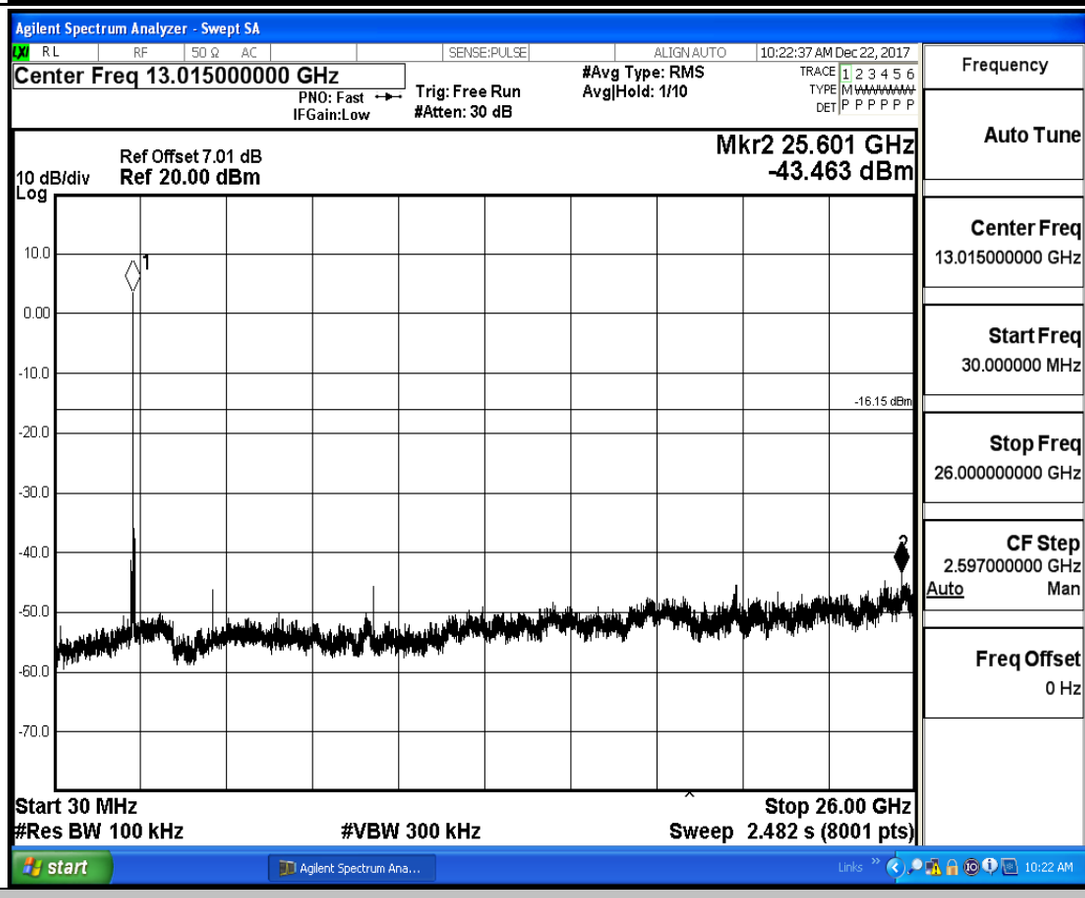


A.5 RF Conducted Spurious Emissions

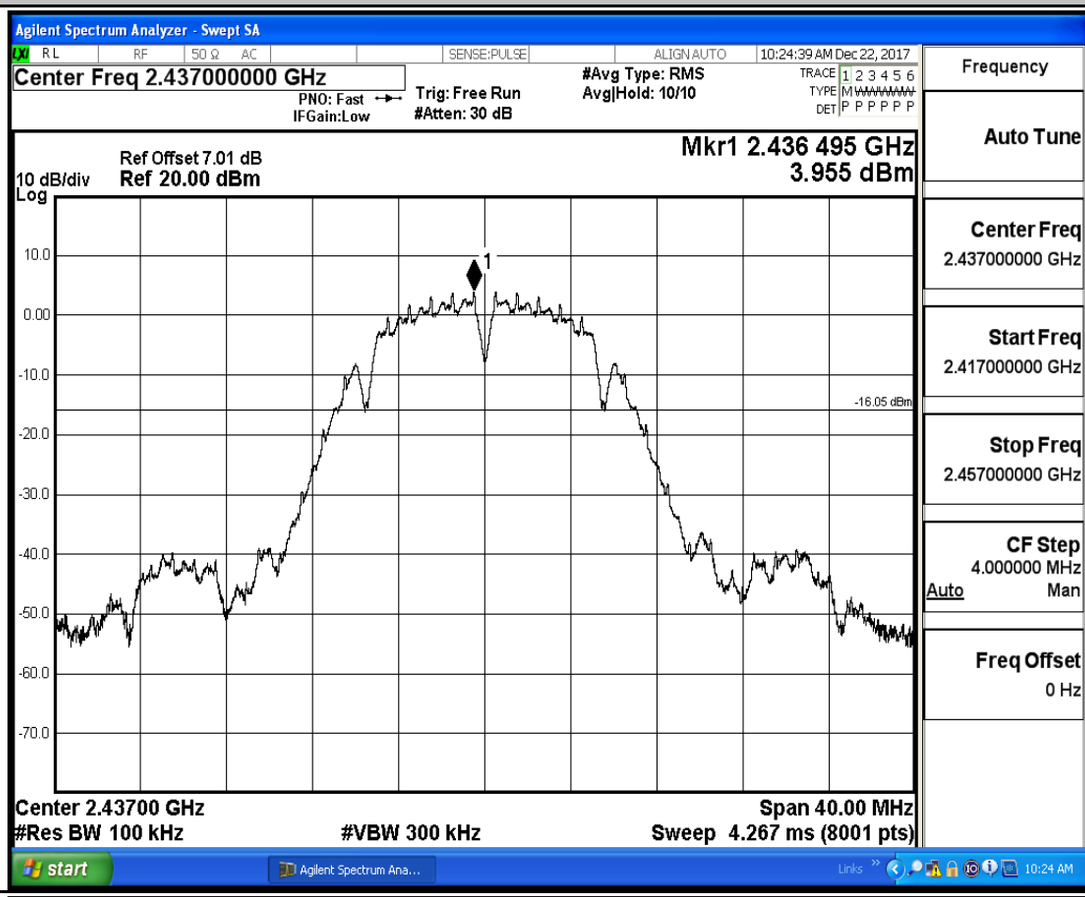
Test Mode	Test Channel	Ant	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	30	26000	100	300	3.846	-43.463	<-16.154	PASS
11B	2437	Ant1	30	26000	100	300	3.955	-43.583	<-16.045	PASS
11B	2462	Ant1	30	26000	100	300	3.738	-44.979	<-16.262	PASS
11G	2412	Ant1	30	26000	100	300	-6.294	-44.143	<-26.294	PASS
11G	2437	Ant1	30	26000	100	300	-6.622	-43.654	<-26.622	PASS
11G	2462	Ant1	30	26000	100	300	-6.937	-44.658	<-26.937	PASS
11N20SISO	2412	Ant1	30	26000	100	300	-8.129	-45.367	<-28.129	PASS
11N20SISO	2437	Ant1	30	26000	100	300	-8.455	-44.388	<-28.455	PASS
11N20SISO	2462	Ant1	30	26000	100	300	-8.62	-44.200	<-28.62	PASS
11N40SISO	2422	Ant1	30	26000	100	300	-10.734	-44.857	<-30.734	PASS
11N40SISO	2437	Ant1	30	26000	100	300	-11.384	-44.450	<-31.384	PASS
11N40SISO	2452	Ant1	30	26000	100	300	-11.151	-44.905	<-31.151	PASS

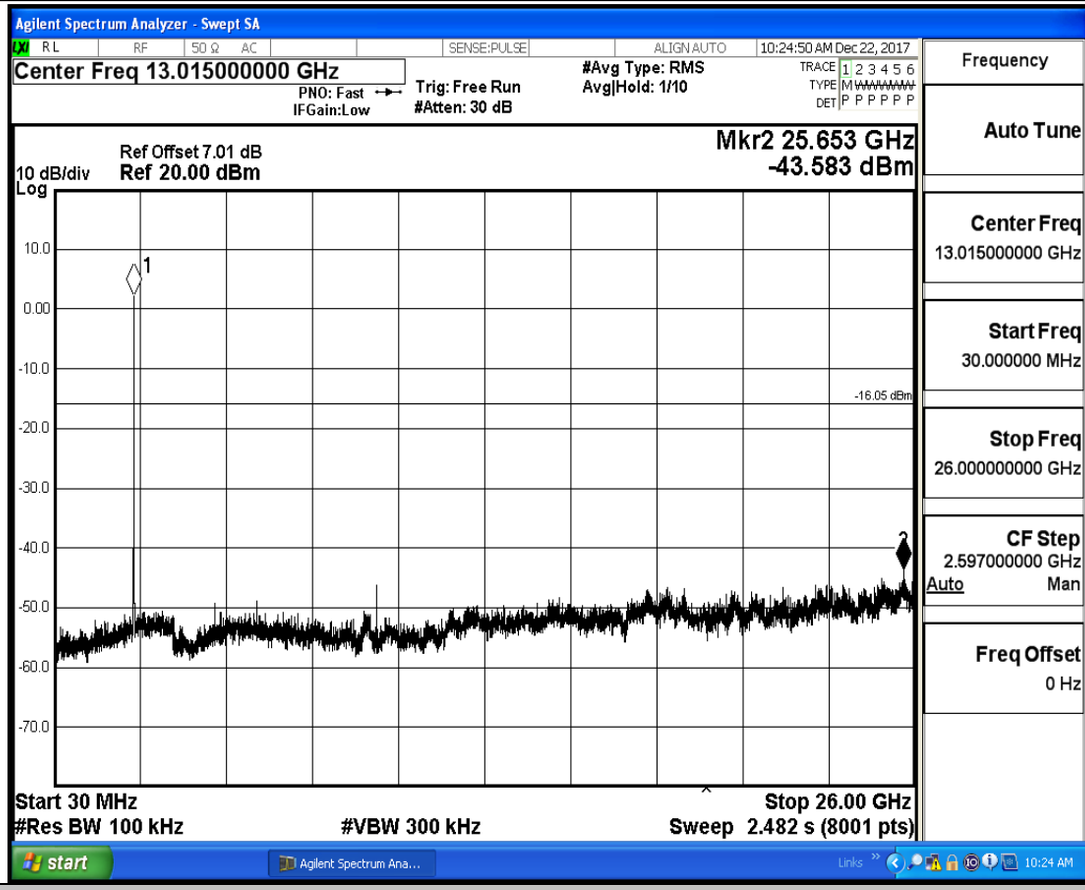
RF Conducted Spurious Emissions_11B_2412_Ant1



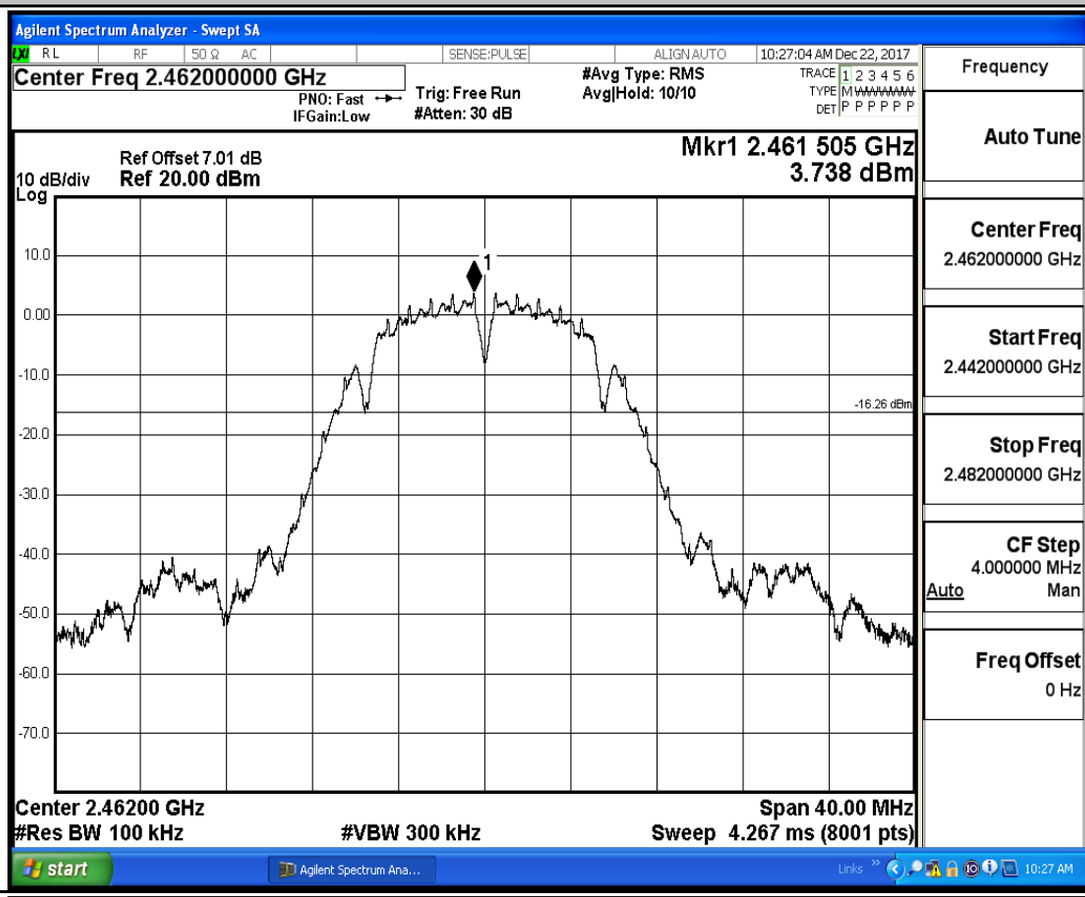


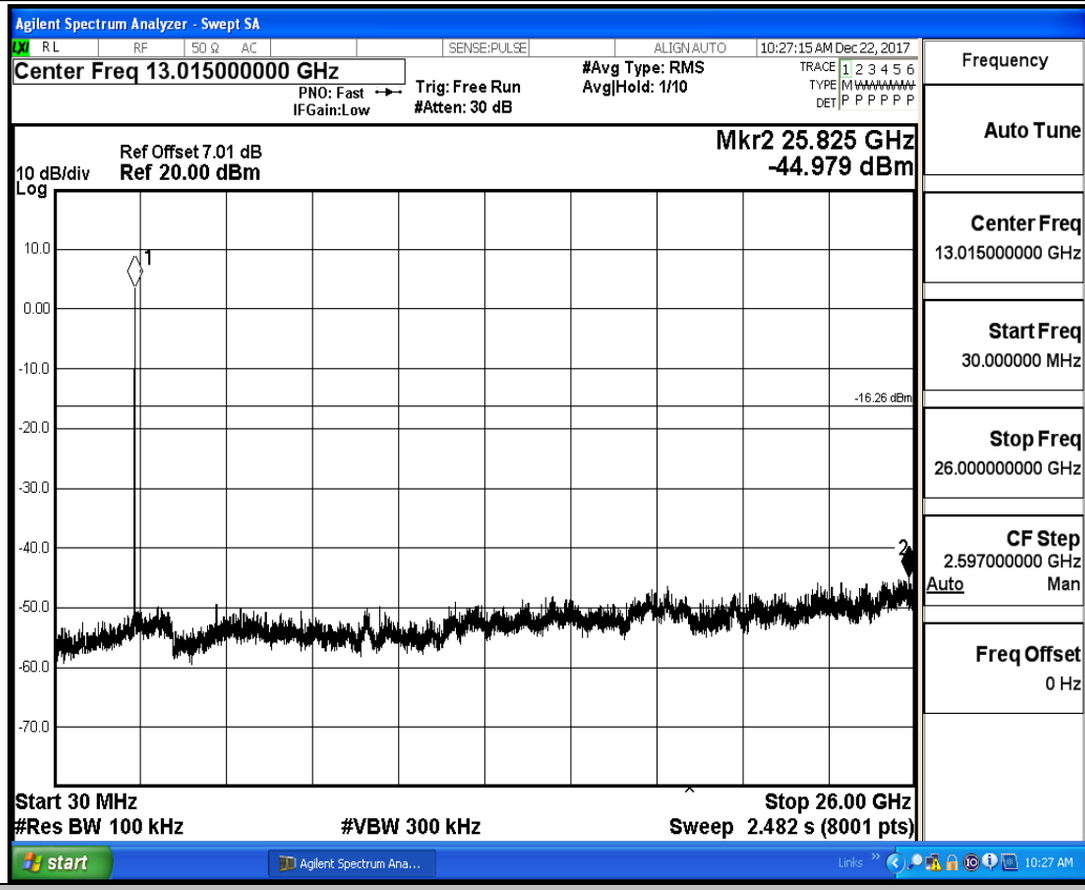
RF Conducted Spurious Emissions_11B_2437_Ant1



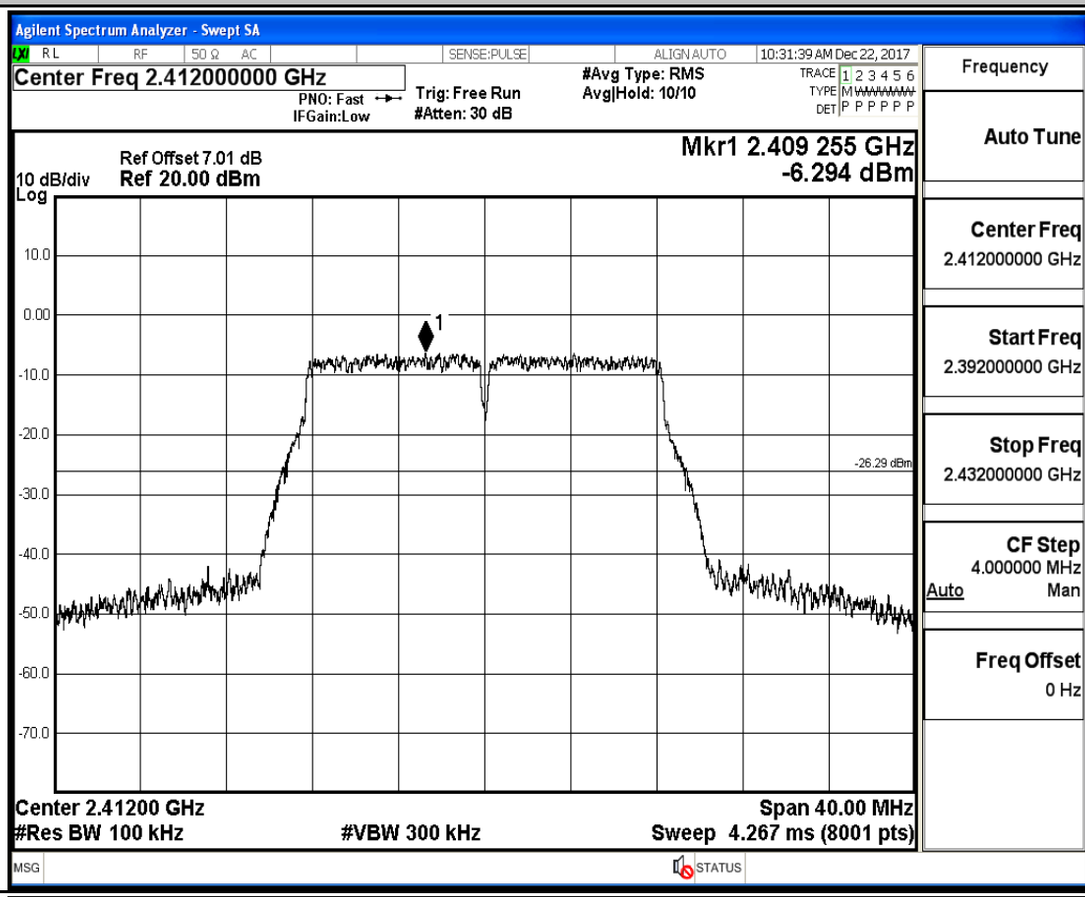


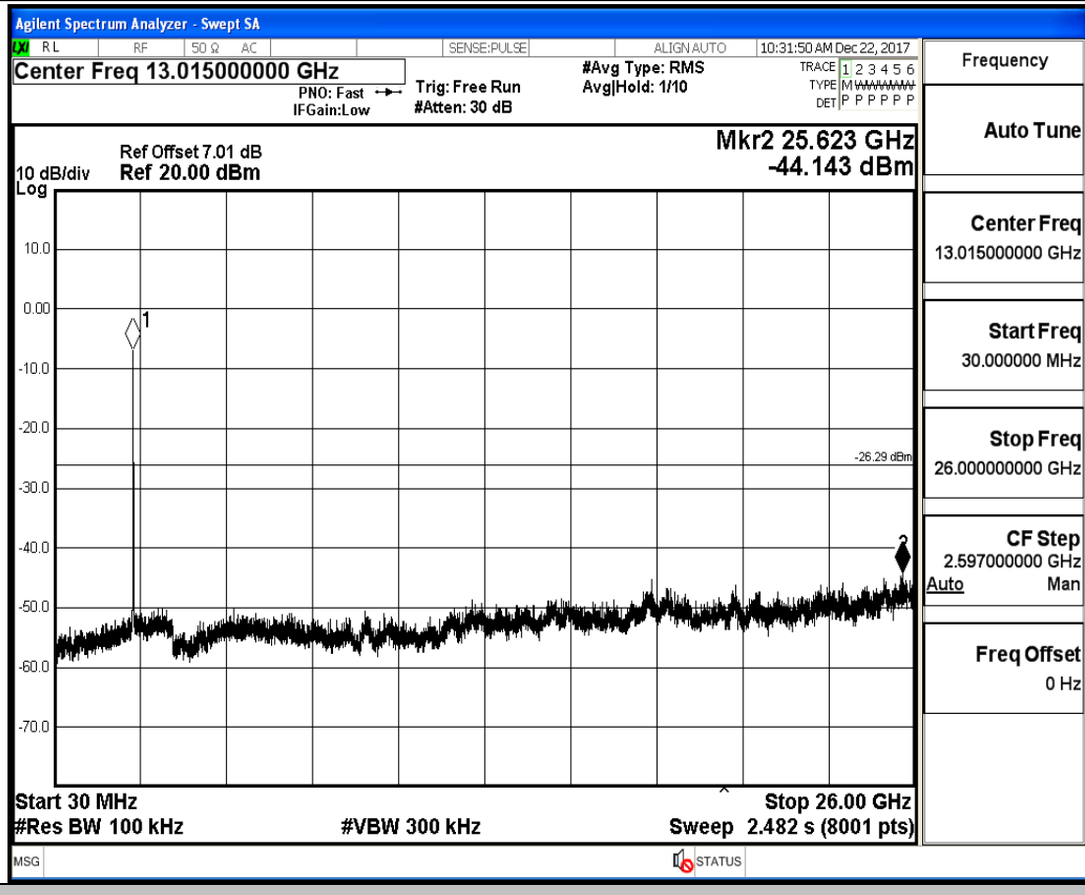
RF Conducted Spurious Emissions_11B_2462_Ant1



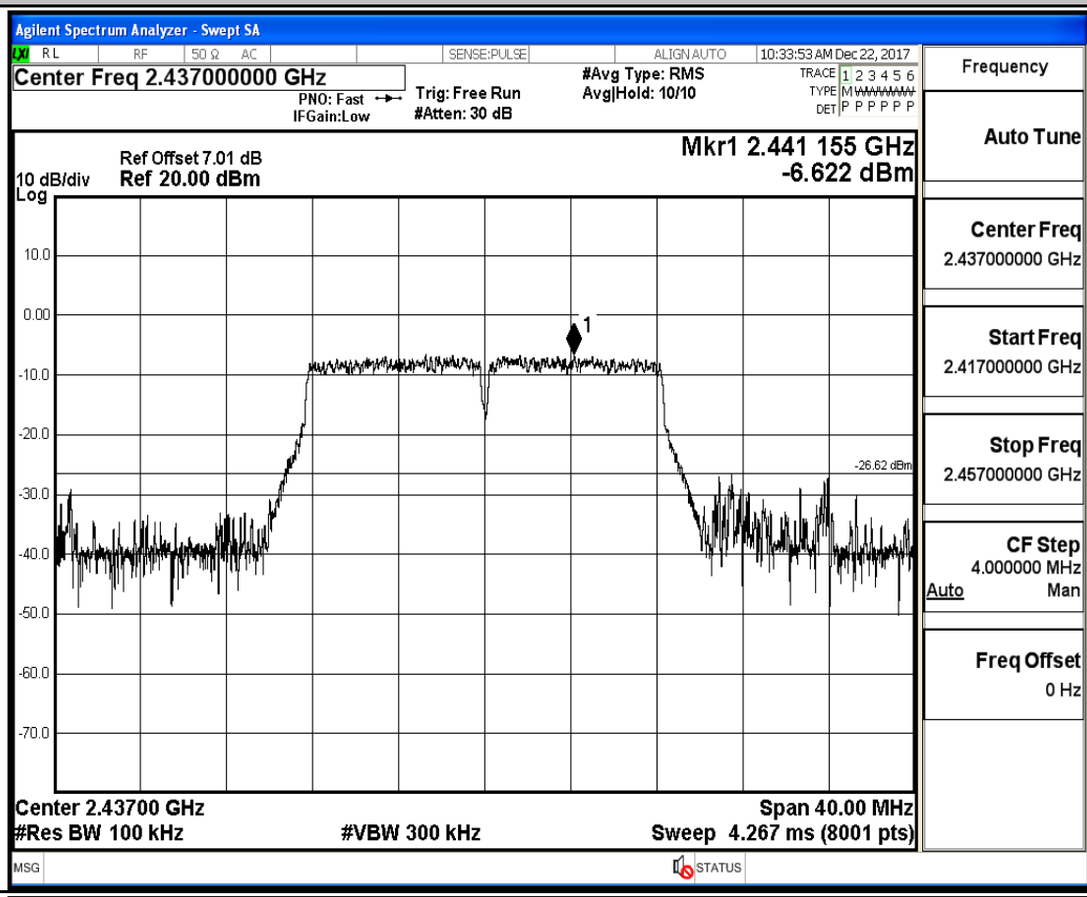


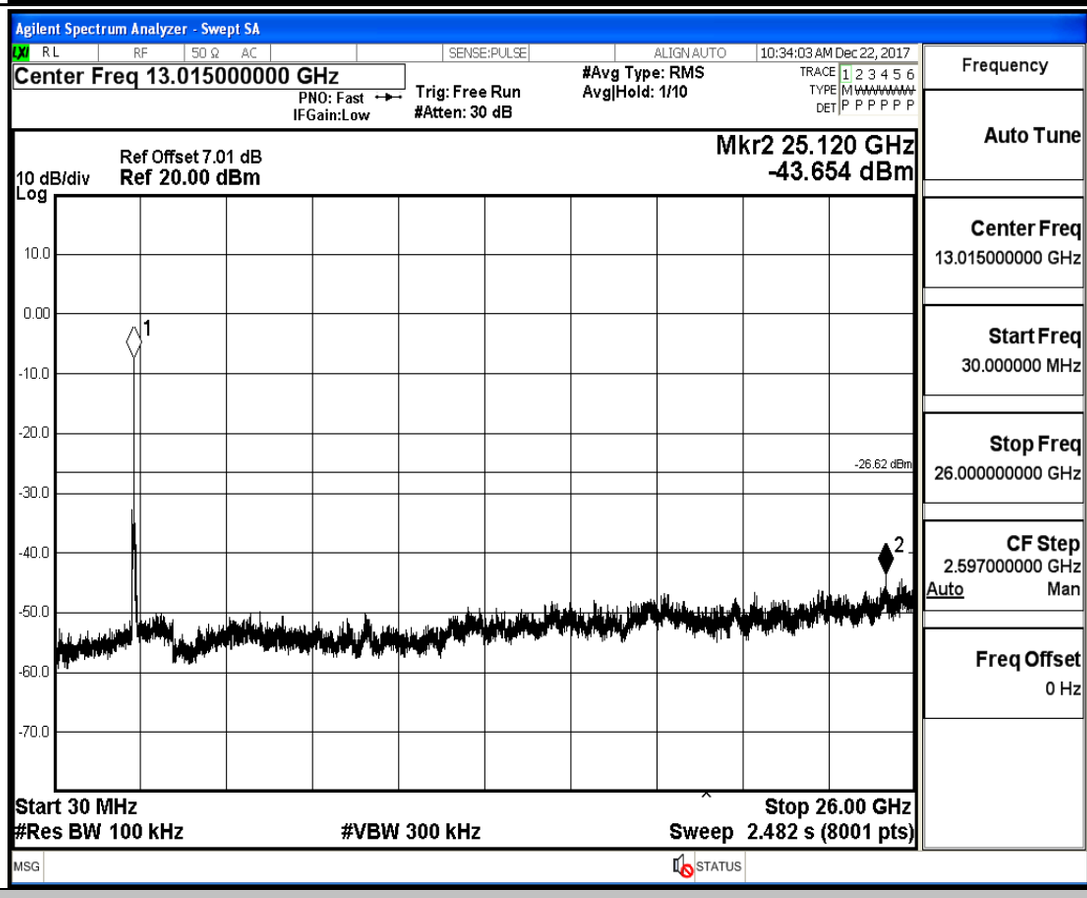
RF Conducted Spurious Emissions_11G_2412_Ant1





RF Conducted Spurious Emissions_11G_2437_Ant1





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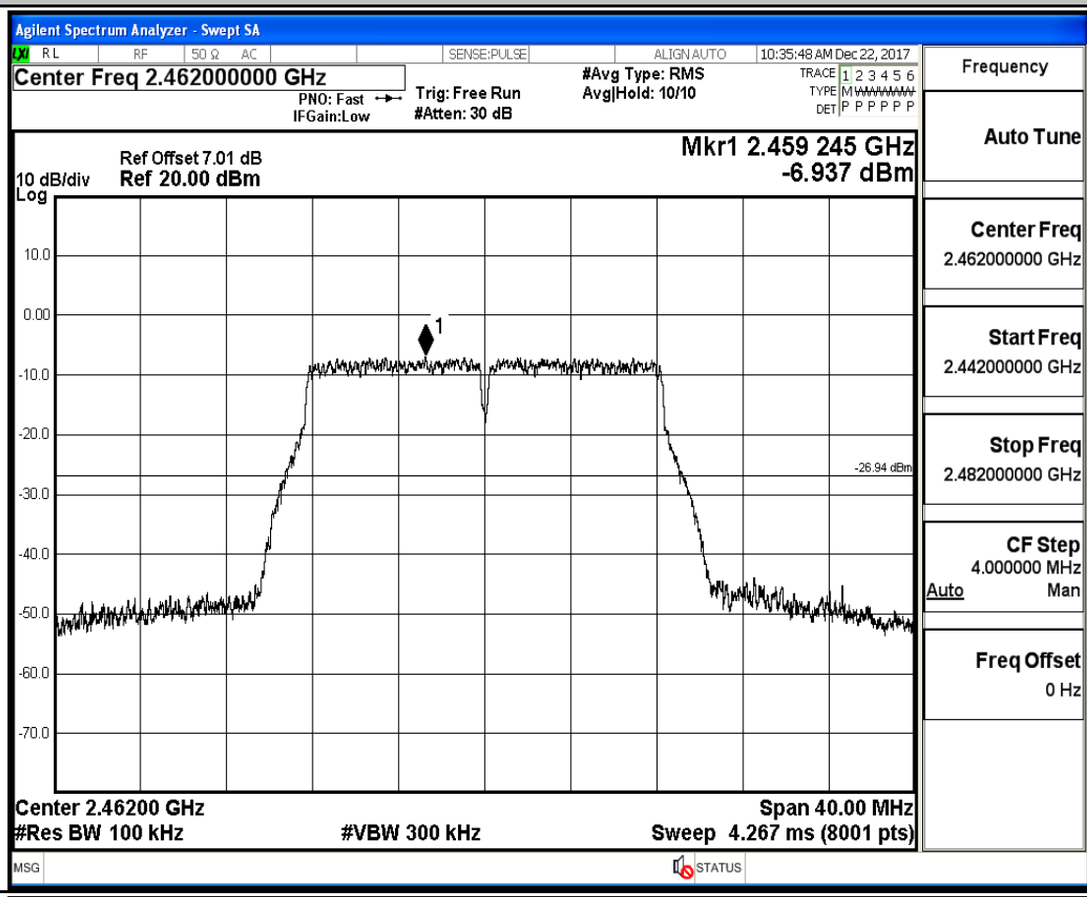
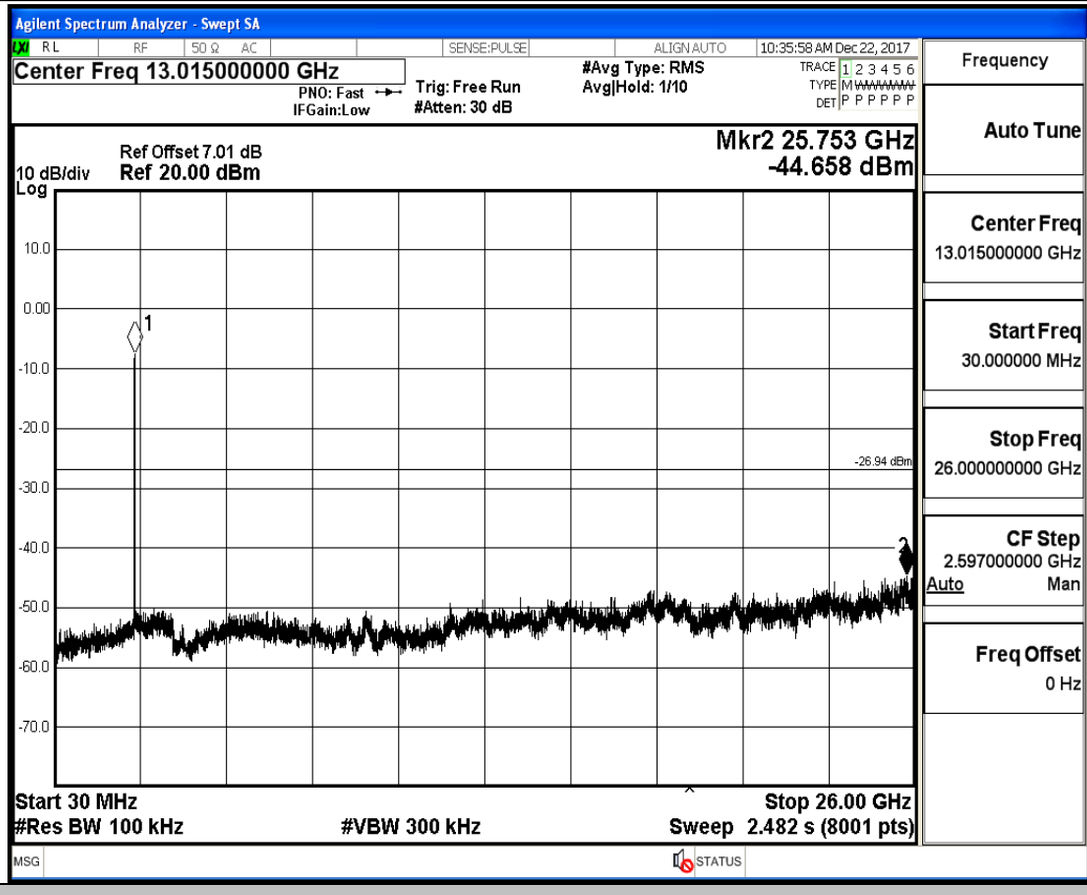
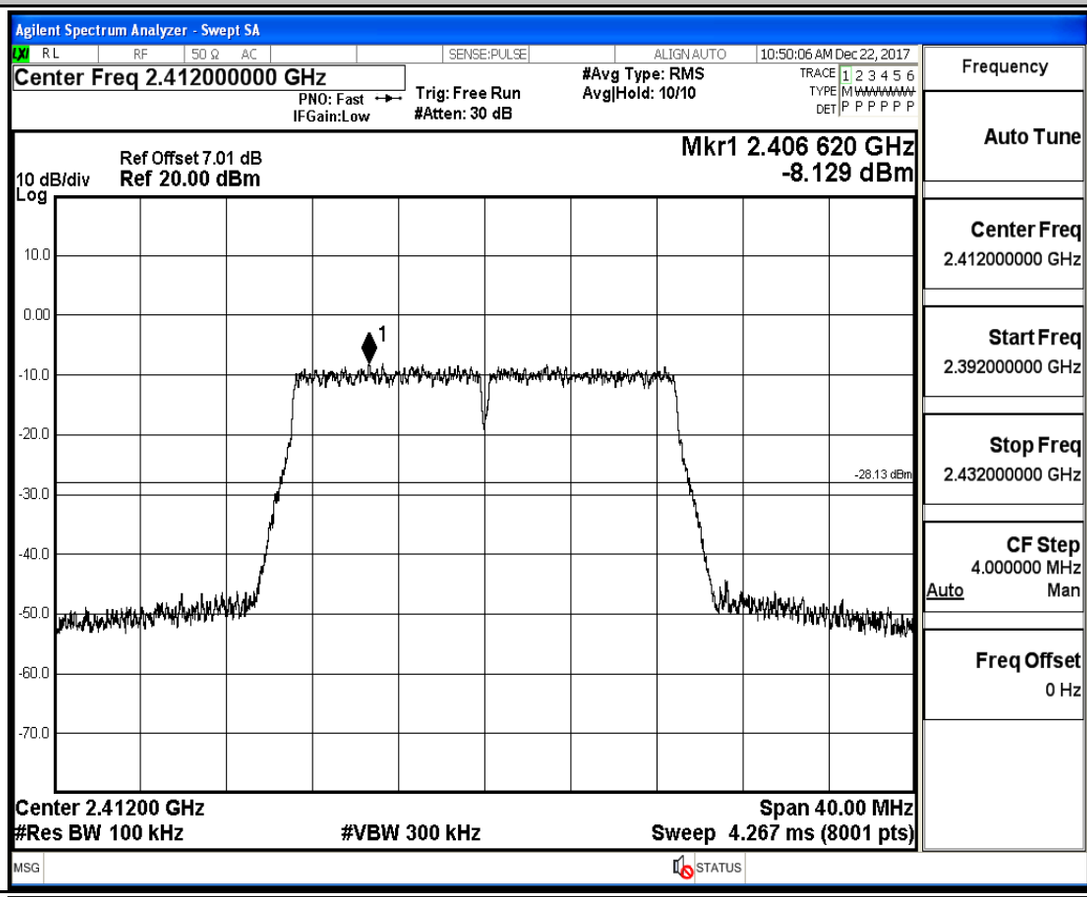
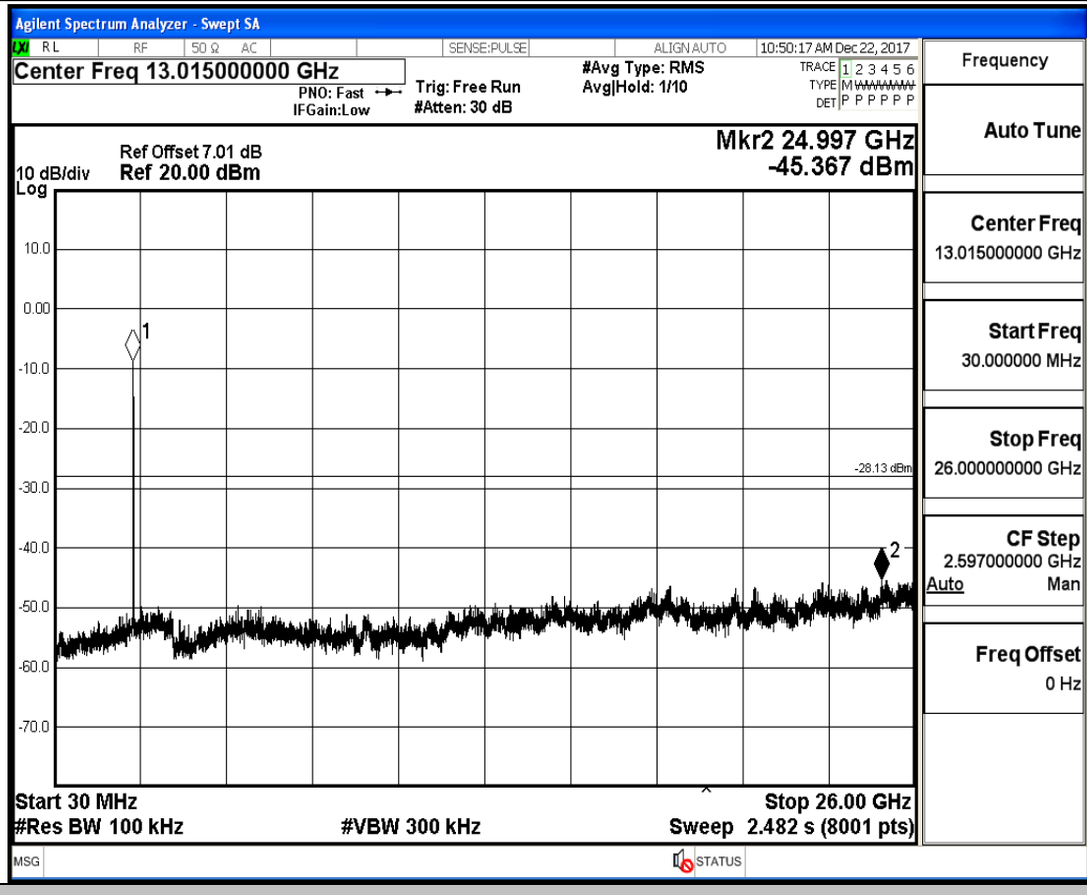




RF Conducted Spurious Emissions_11N20SISO_2412_Ant1





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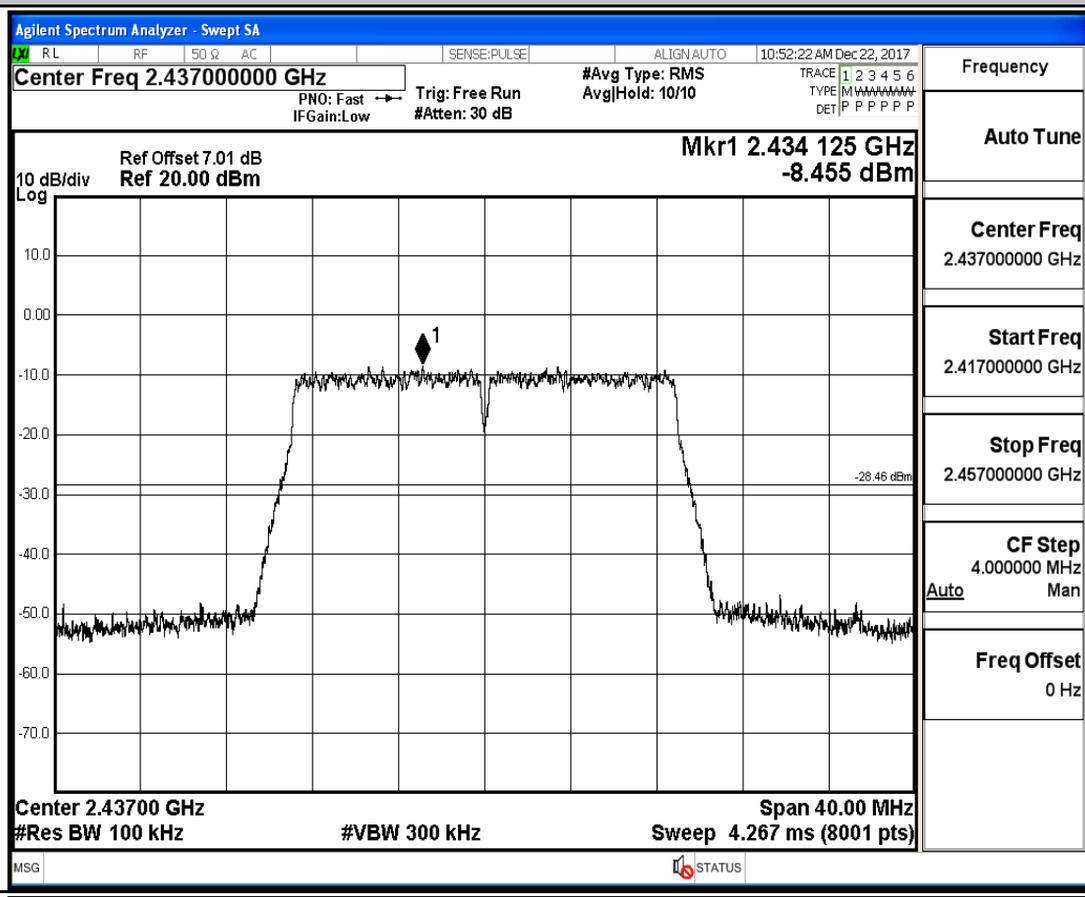

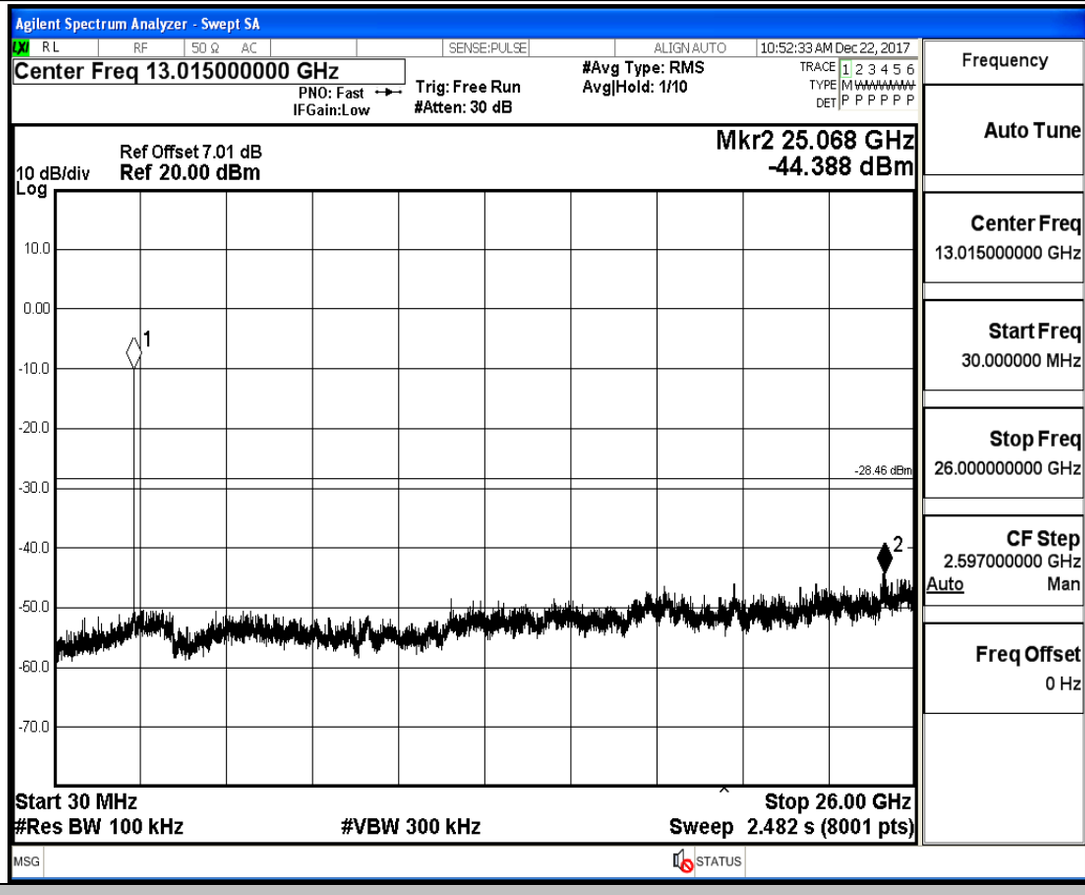

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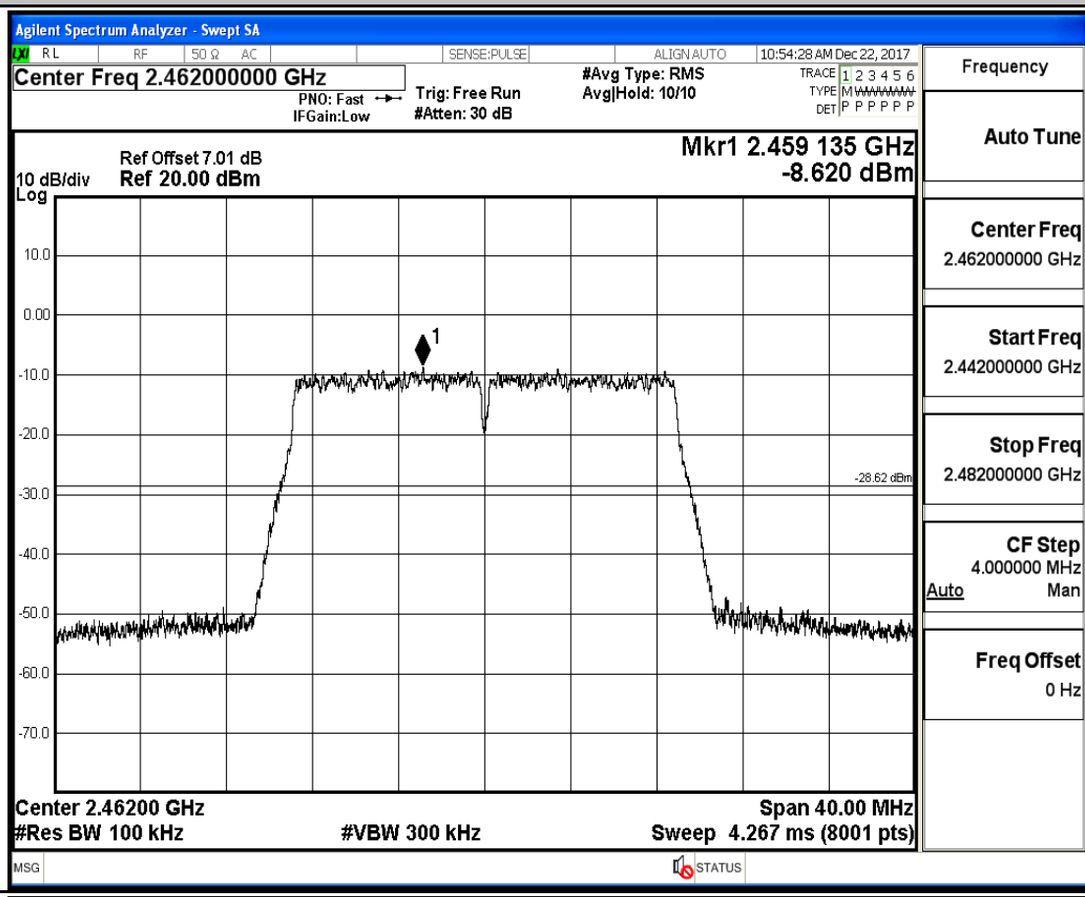
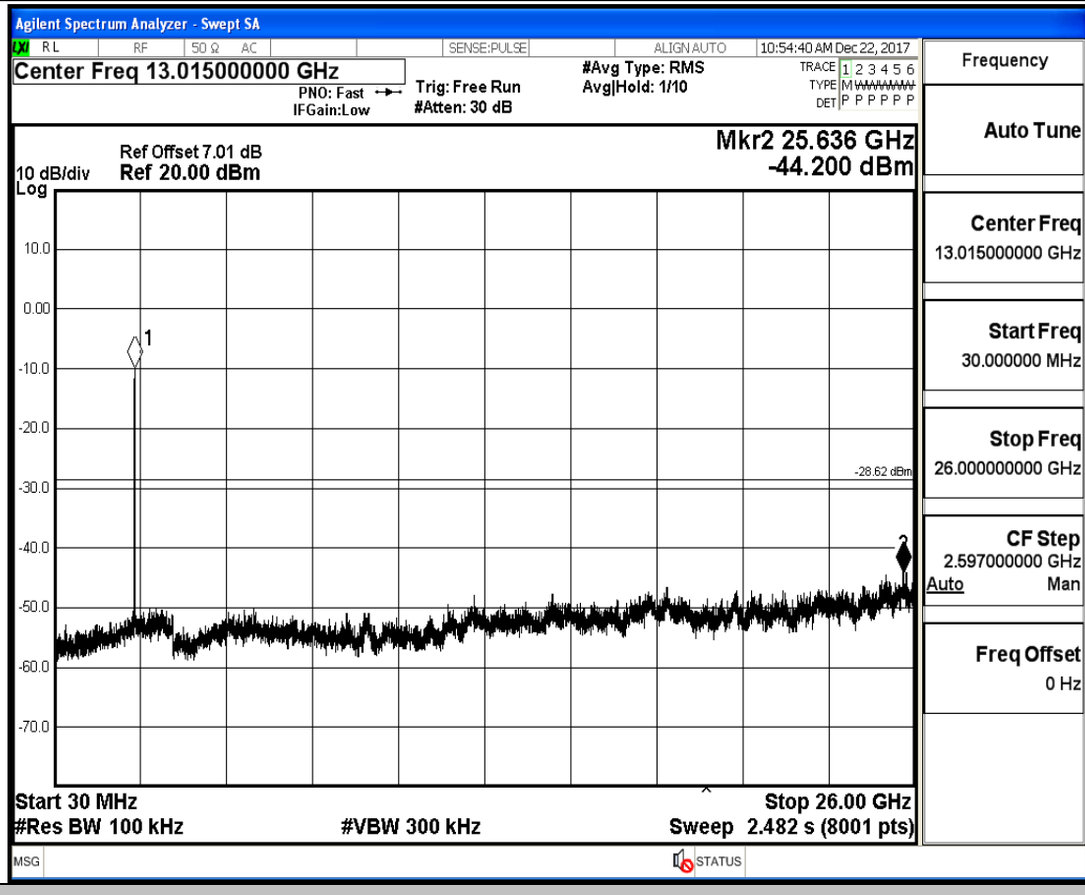
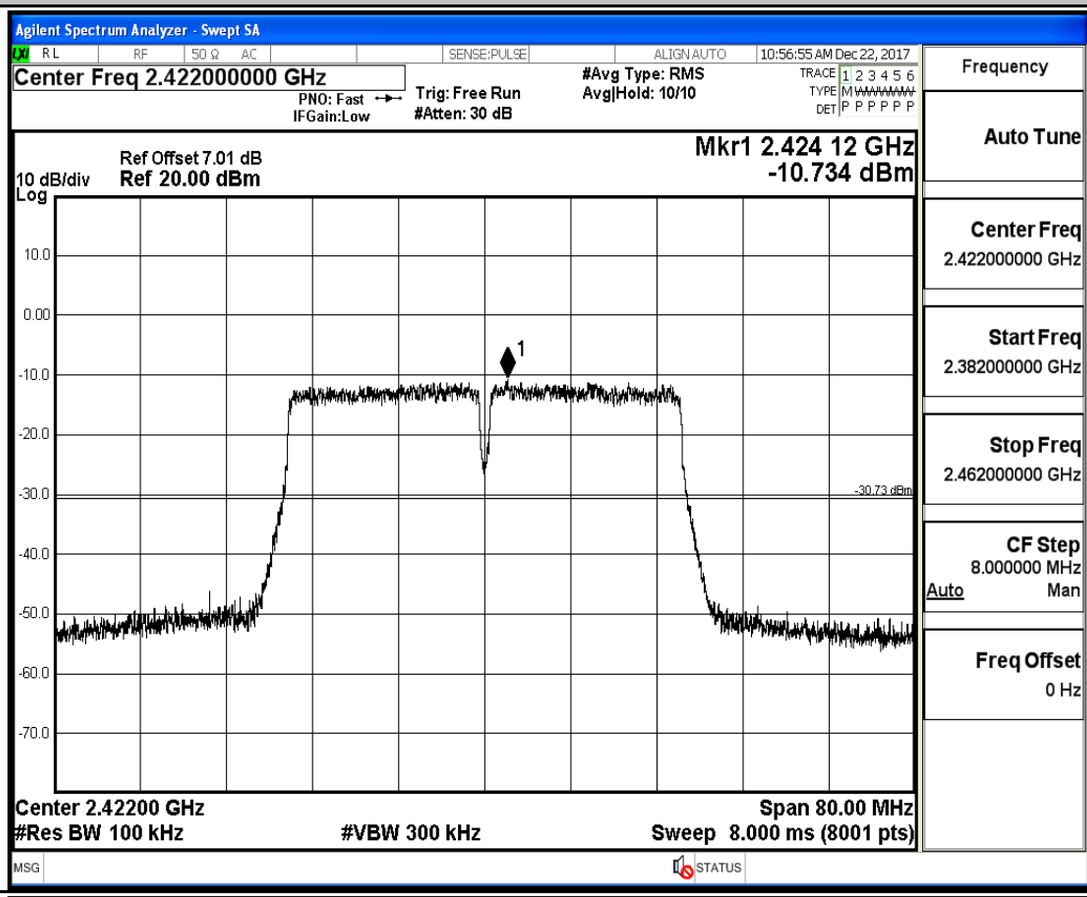
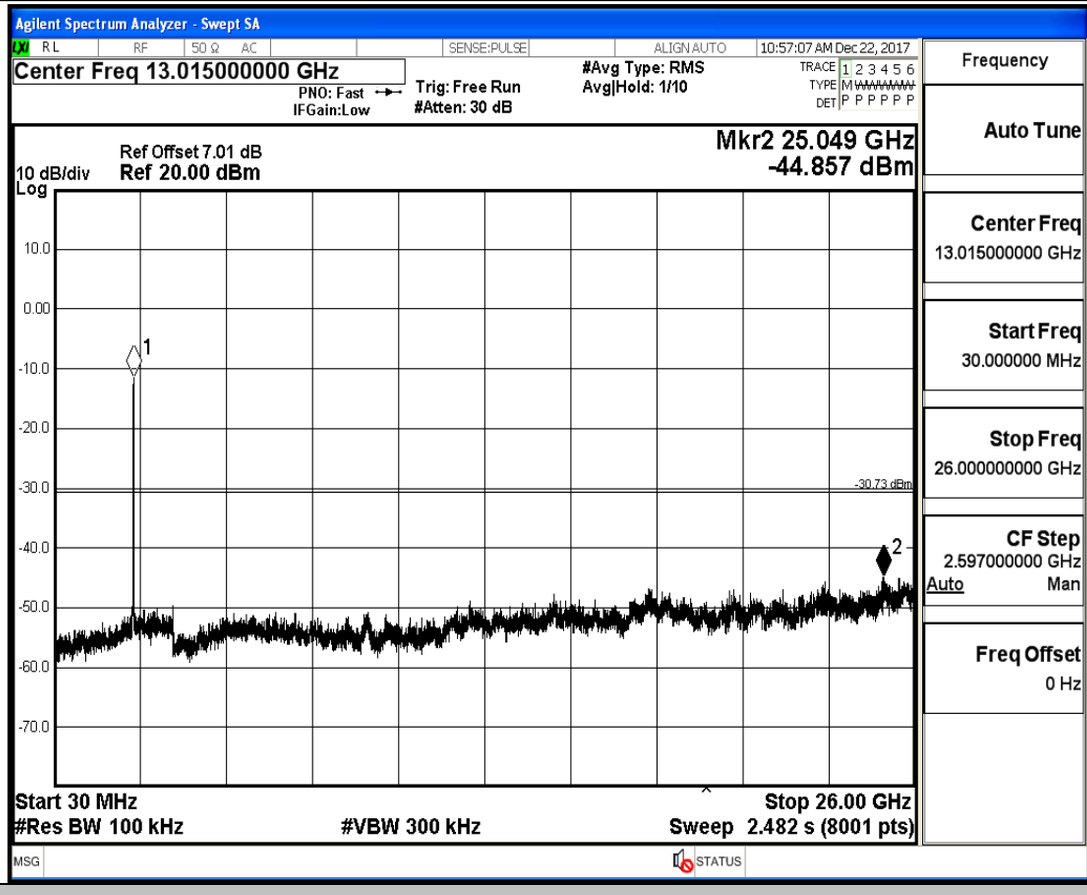




RF Conducted Spurious Emissions_11N40SISO_2422_Ant1





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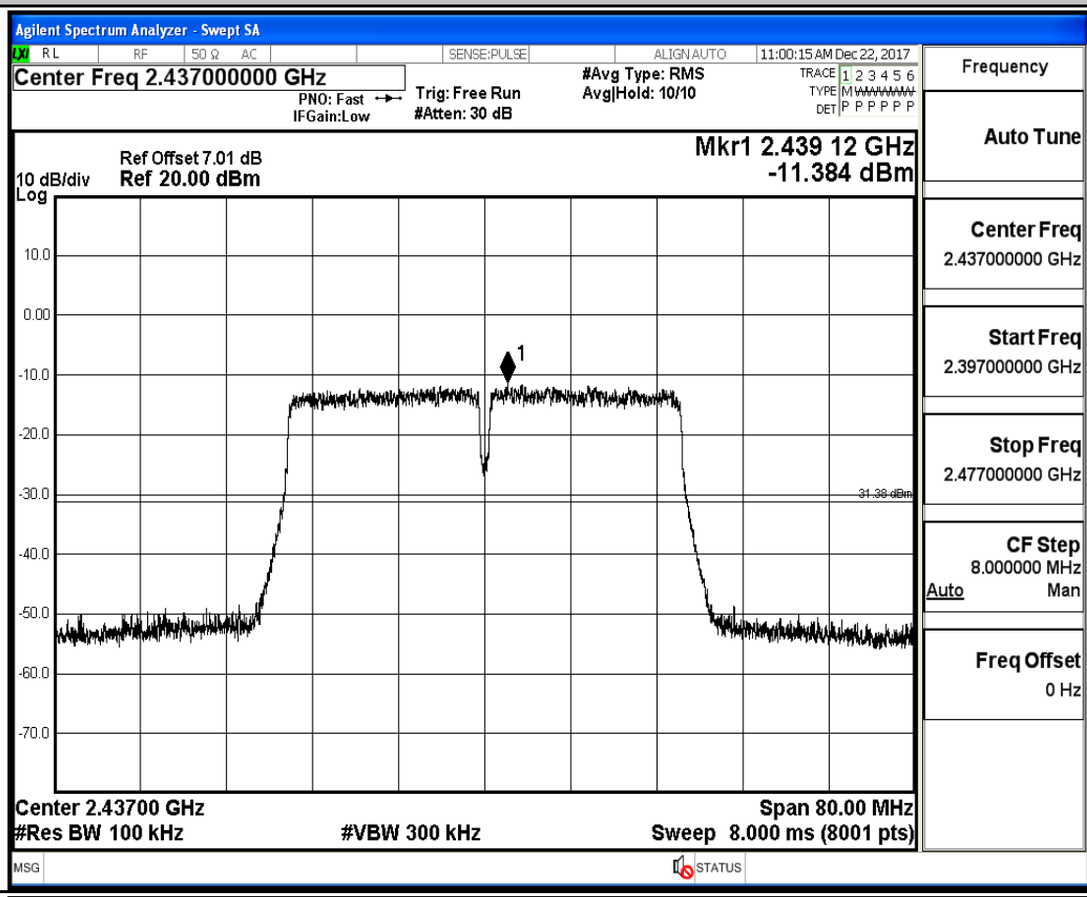
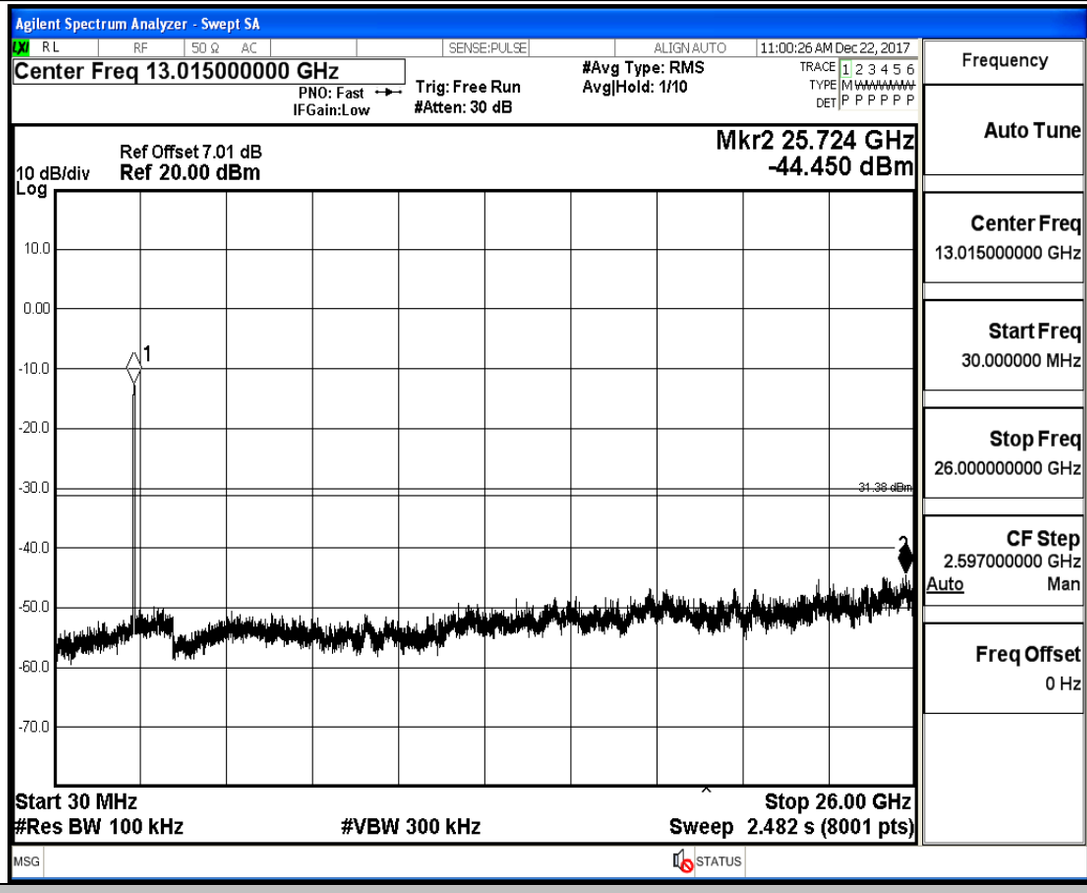
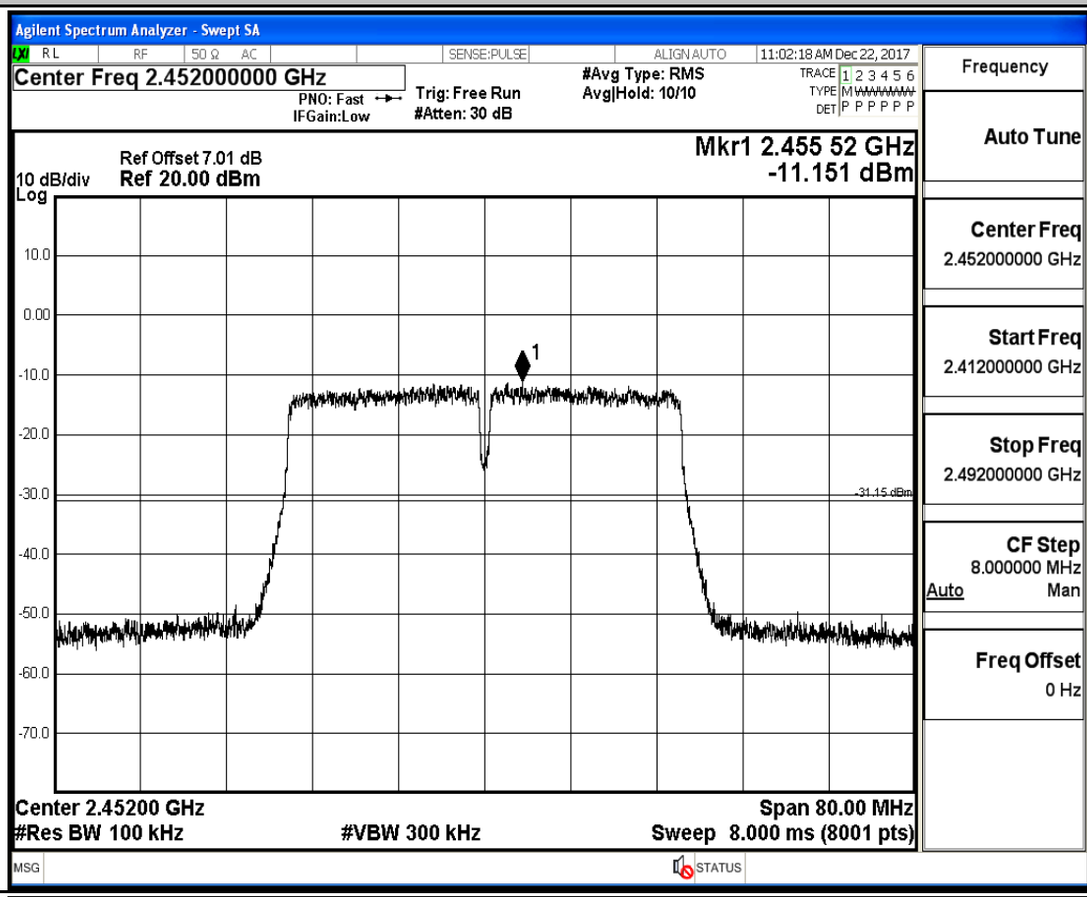
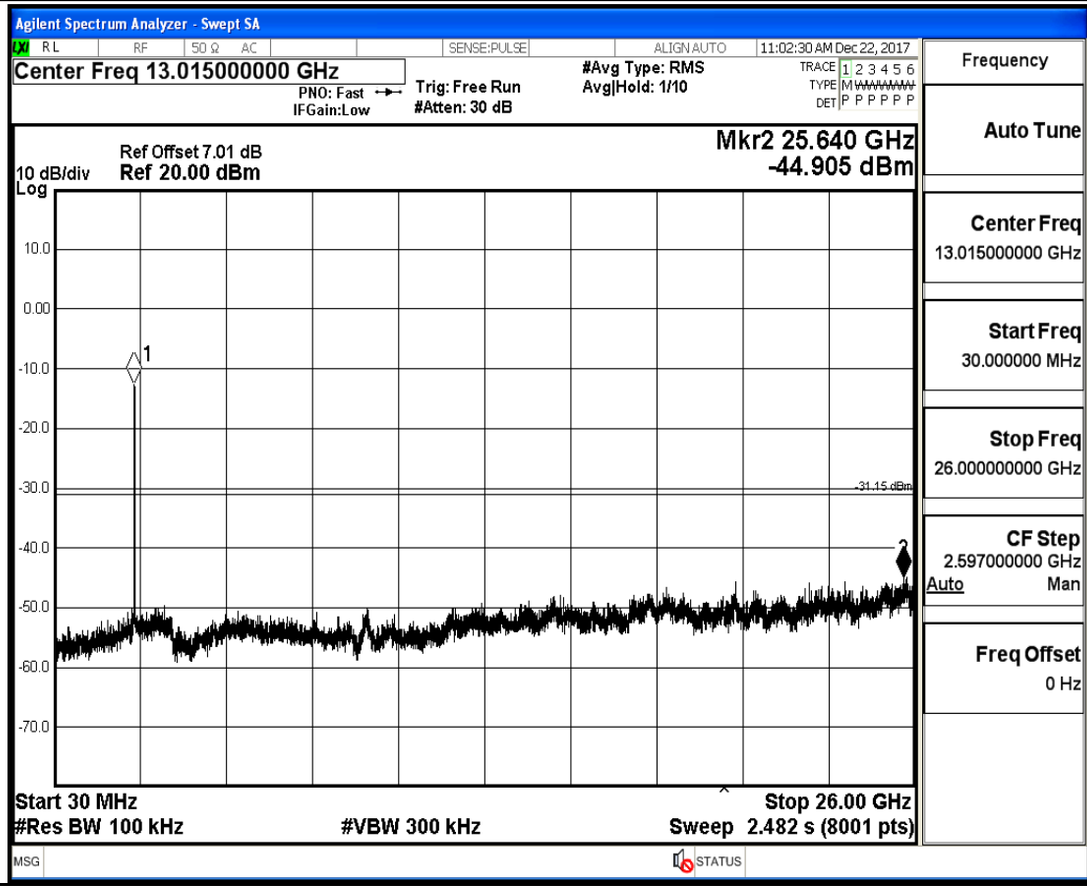




RF Conducted Spurious Emissions_11N40SISO_2452_Ant1

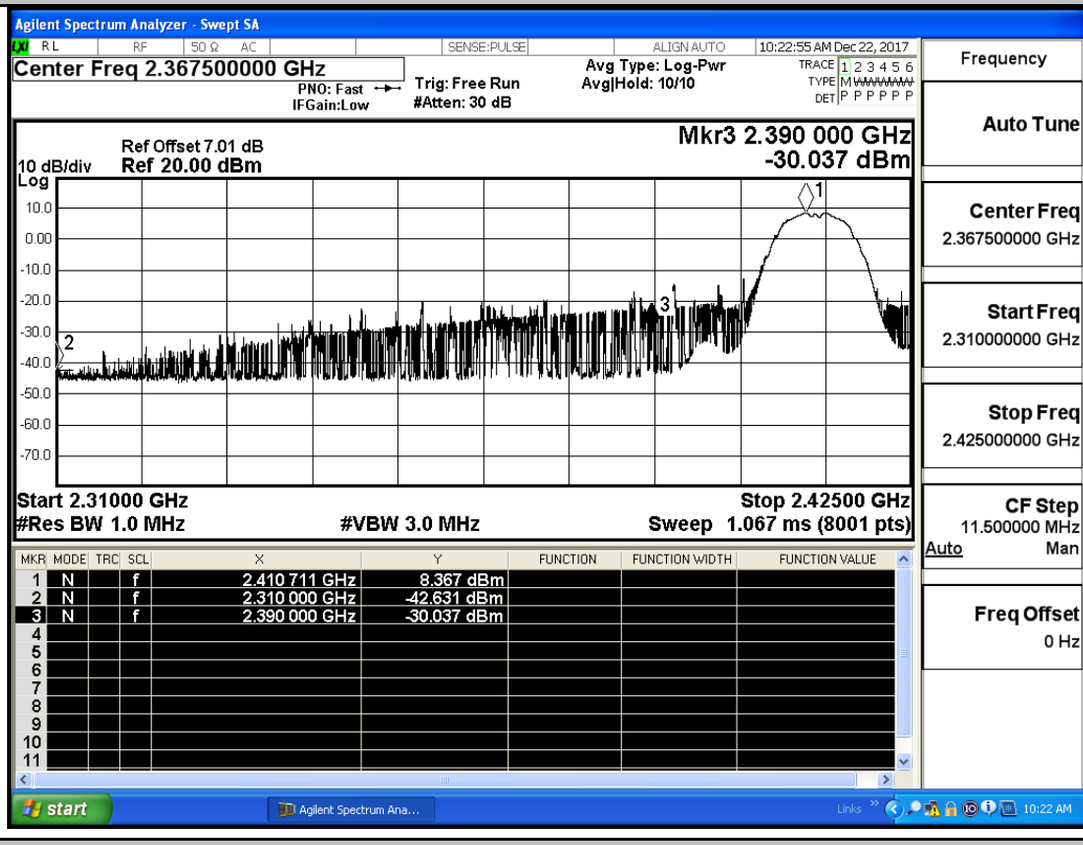




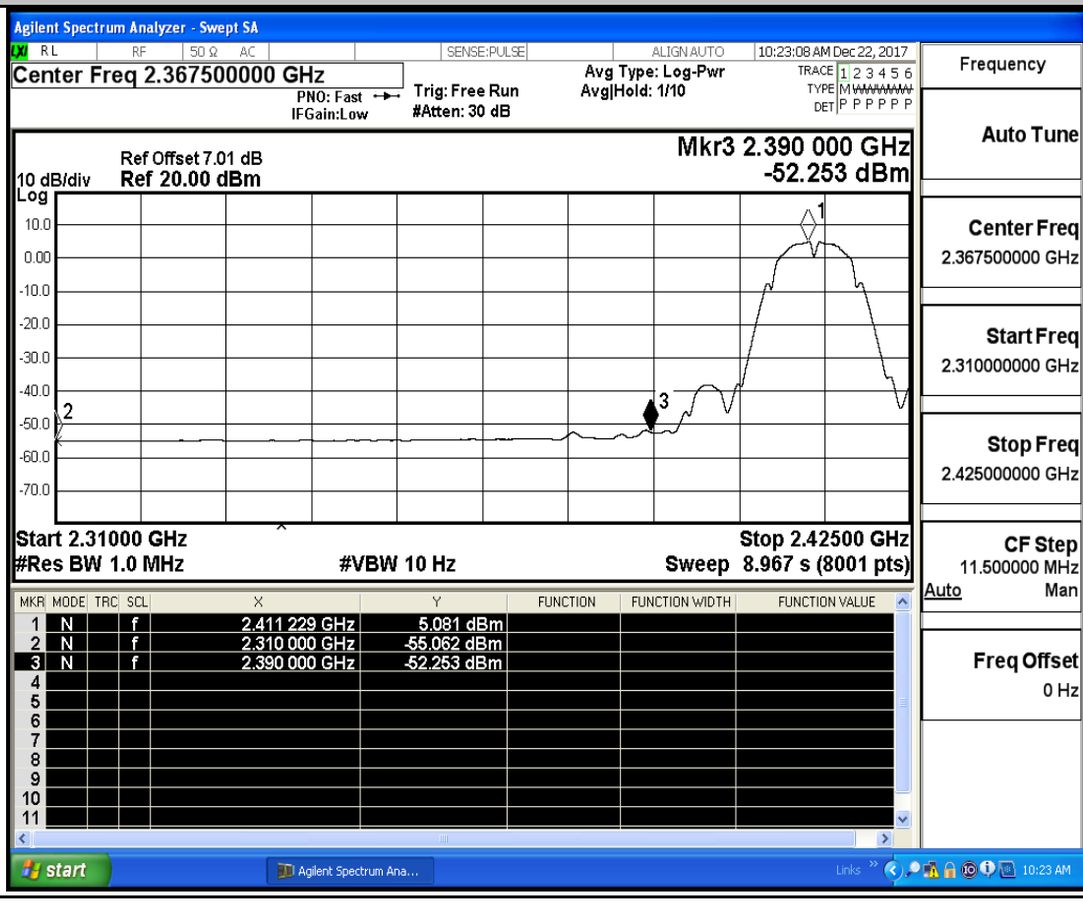
A.6 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-42.631	2.0	0	54.597	PEAK	74	PASS
11B	2412	Ant1	2310.0	-55.062	2.0	0	42.166	AV	54	PASS
11B	2412	Ant1	2390.0	-30.037	2.0	0	67.191	PEAK	74	PASS
11B	2412	Ant1	2390.0	-52.253	2.0	0	44.975	AV	54	PASS
11B	2462	Ant1	2483.5	-42.927	2.0	0	54.301	PEAK	74	PASS
11B	2462	Ant1	2483.5	-53.651	2.0	0	43.577	AV	54	PASS
11B	2462	Ant1	2500.0	-43.287	2.0	0	53.941	PEAK	74	PASS
11B	2462	Ant1	2500.0	-53.799	2.0	0	43.429	AV	54	PASS
11G	2412	Ant1	2310.0	-45.020	2.0	0	52.208	PEAK	74	PASS
11G	2412	Ant1	2310.0	-55.049	2.0	0	42.179	AV	54	PASS
11G	2412	Ant1	2390.0	-40.424	2.0	0	56.804	PEAK	74	PASS
11G	2412	Ant1	2390.0	-52.214	2.0	0	45.014	AV	54	PASS
11G	2462	Ant1	2483.5	-39.565	2.0	0	57.663	PEAK	74	PASS
11G	2462	Ant1	2483.5	-52.656	2.0	0	44.572	AV	54	PASS
11G	2462	Ant1	2500.0	-43.202	2.0	0	54.026	PEAK	74	PASS
11G	2462	Ant1	2500.0	-53.599	2.0	0	43.629	AV	54	PASS
11N20SISO	2412	Ant1	2310.0	-44.516	2.0	0	52.712	PEAK	74	PASS
11N20SISO	2412	Ant1	2310.0	-55.098	2.0	0	42.130	AV	54	PASS
11N20SISO	2412	Ant1	2390.0	-42.562	2.0	0	54.666	PEAK	74	PASS
11N20SISO	2412	Ant1	2390.0	-53.034	2.0	0	44.194	AV	54	PASS
11N20SISO	2462	Ant1	2483.5	-44.038	2.0	0	53.190	PEAK	74	PASS
11N20SISO	2462	Ant1	2483.5	-53.441	2.0	0	43.787	AV	54	PASS
11N20SISO	2462	Ant1	2500.0	-43.125	2.0	0	54.103	PEAK	74	PASS
11N20SISO	2462	Ant1	2500.0	-53.919	2.0	0	43.309	AV	54	PASS
11N40SISO	2422	Ant1	2310.0	-45.046	2.0	0	52.182	PEAK	74	PASS
11N40SISO	2422	Ant1	2310.0	-55.126	2.0	0	42.102	AV	54	PASS
11N40SISO	2422	Ant1	2390.0	-40.763	2.0	0	56.465	PEAK	74	PASS
11N40SISO	2422	Ant1	2390.0	-51.918	2.0	0	45.310	AV	54	PASS
11N40SISO	2452	Ant1	2483.5	-43.518	2.0	0	53.710	PEAK	74	PASS
11N40SISO	2452	Ant1	2483.5	-53.357	2.0	0	43.871	AV	54	PASS
11N40SISO	2452	Ant1	2500.0	-44.609	2.0	0	52.619	PEAK	74	PASS
11N40SISO	2452	Ant1	2500.0	-54.022	2.0	0	43.206	AV	54	PASS

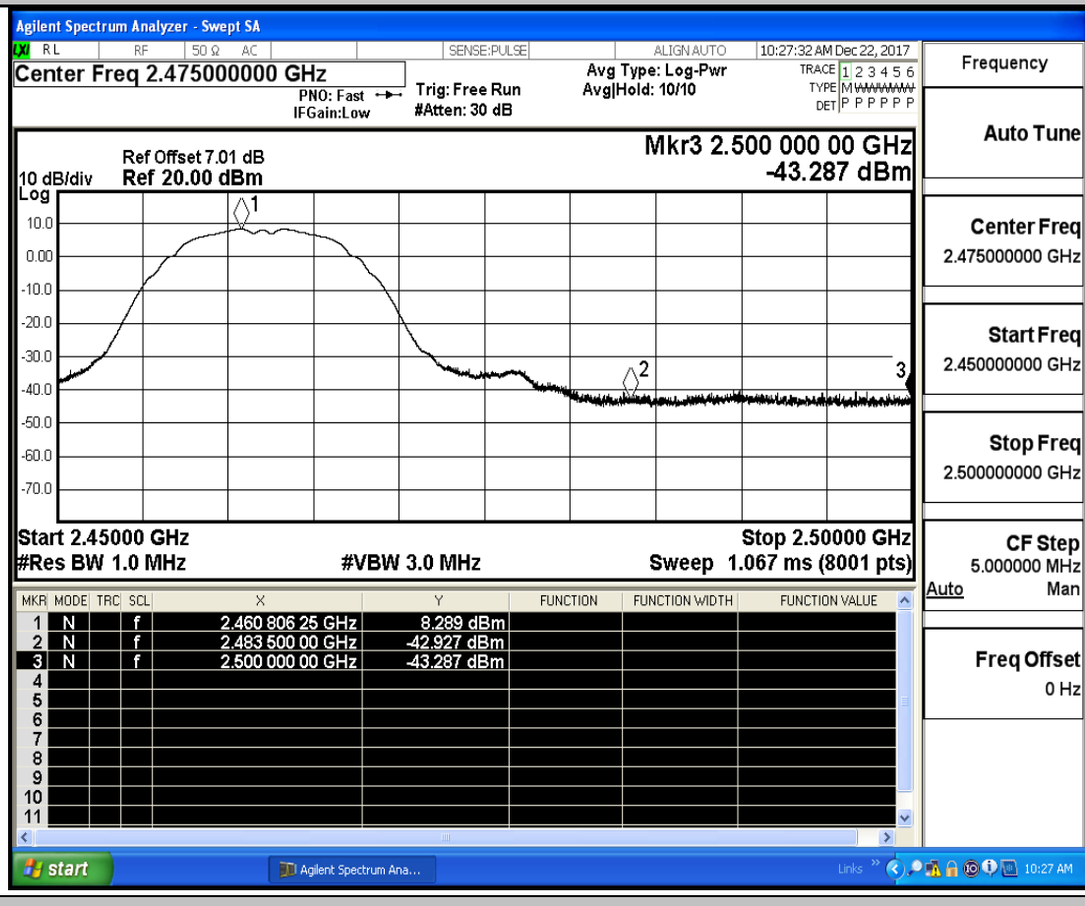
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



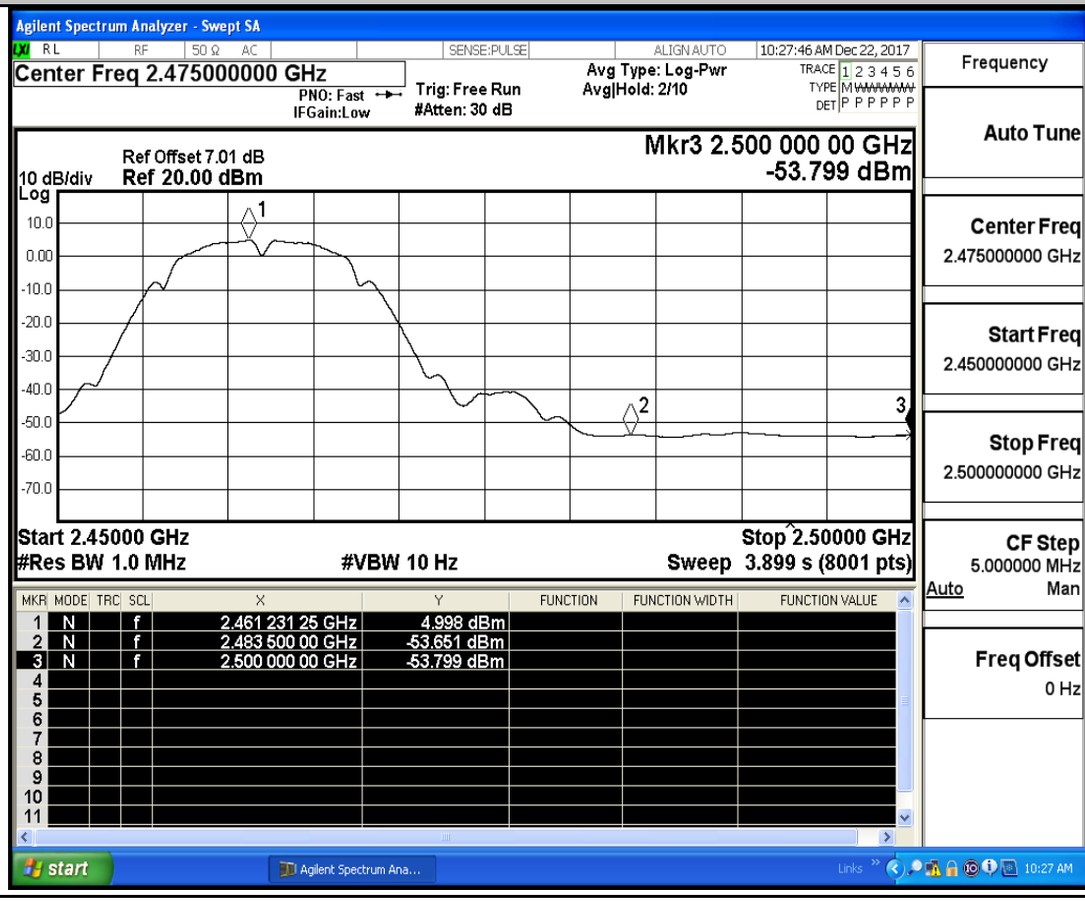
Restrict-band band-edge measurements_11B_2412_Ant1_AV



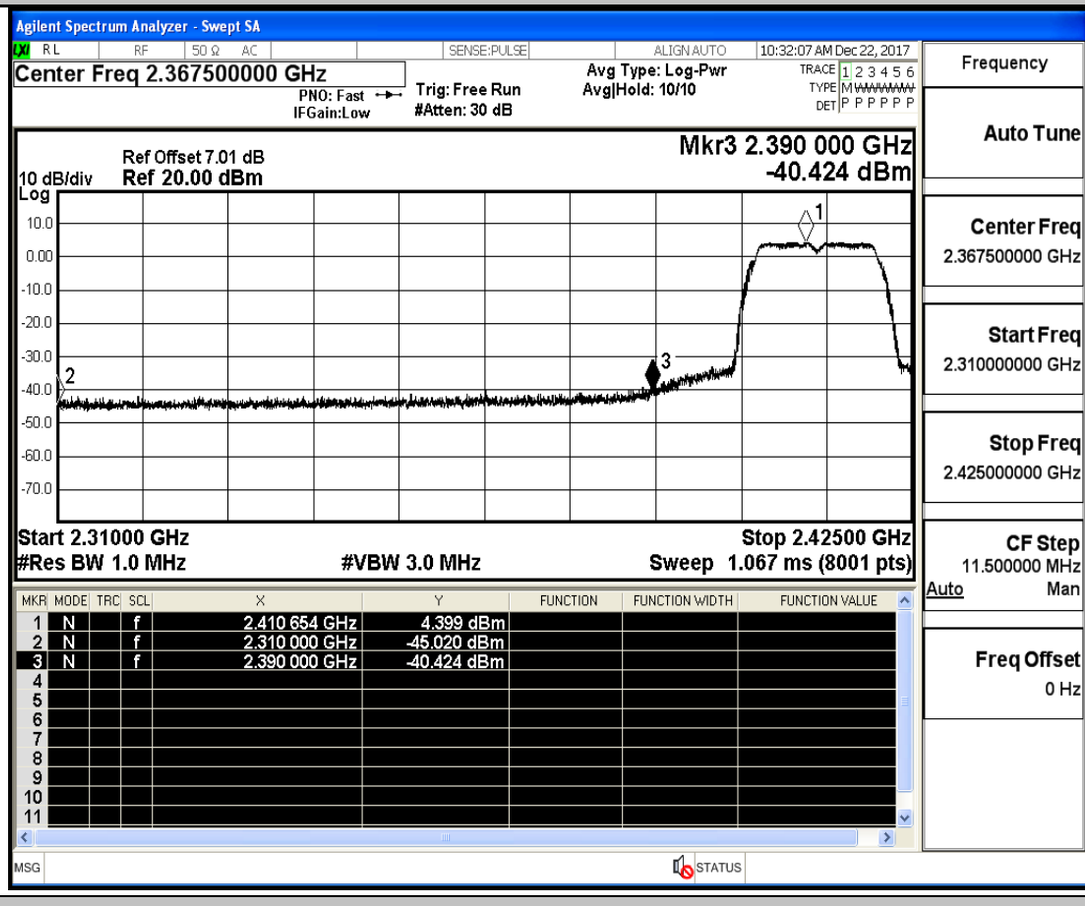
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



Restrict-band band-edge measurements_11B_2462_Ant1_AV



Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



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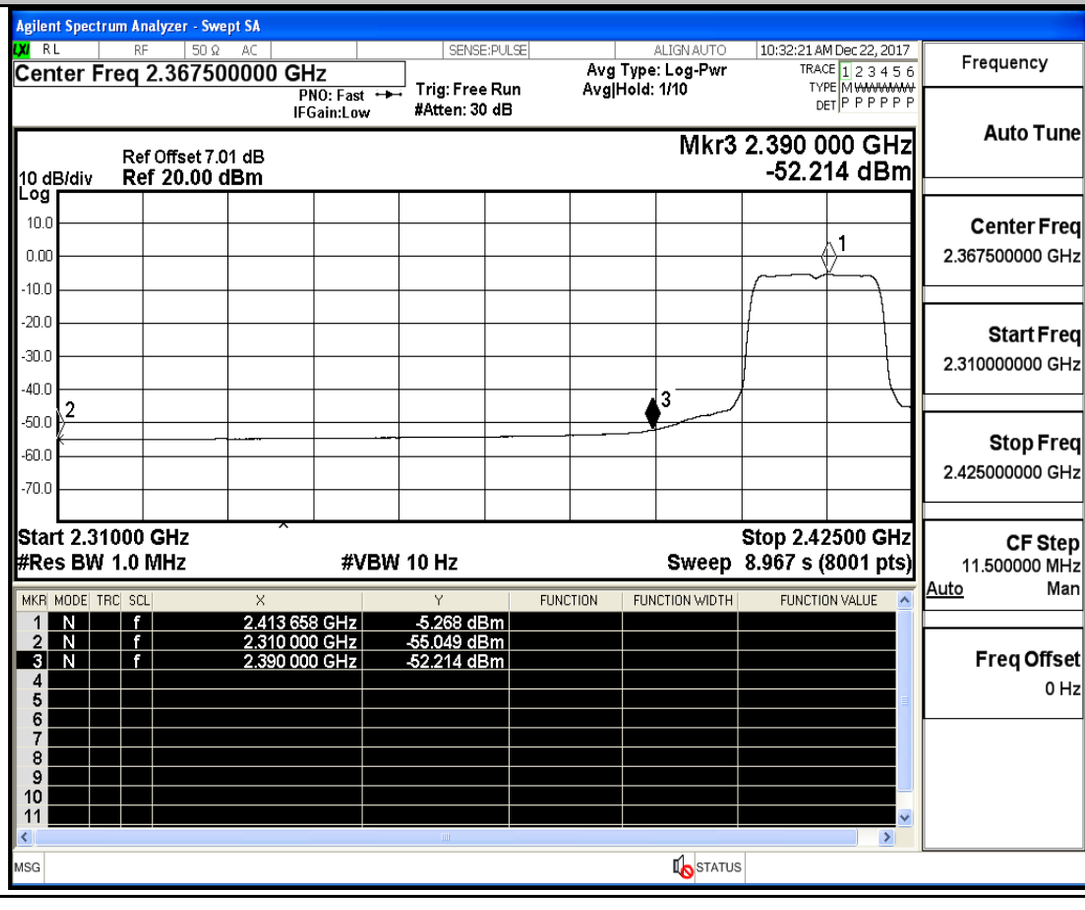

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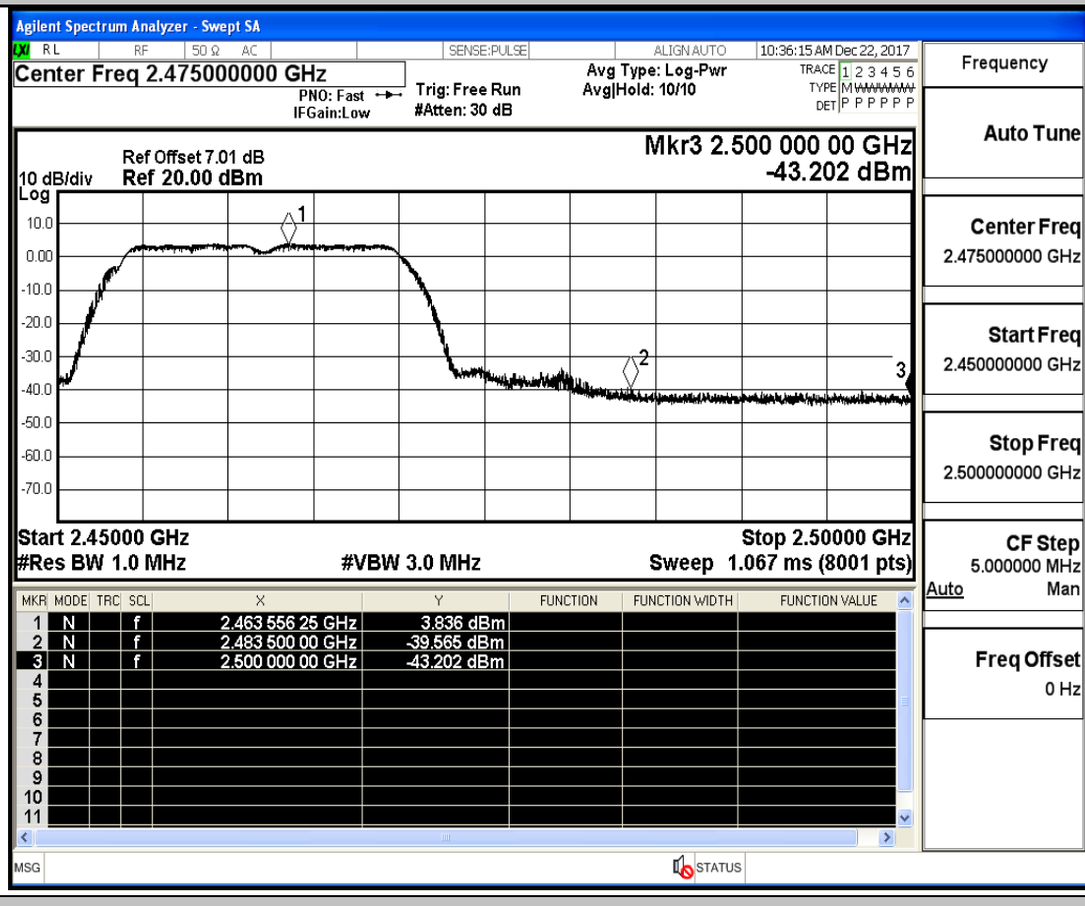

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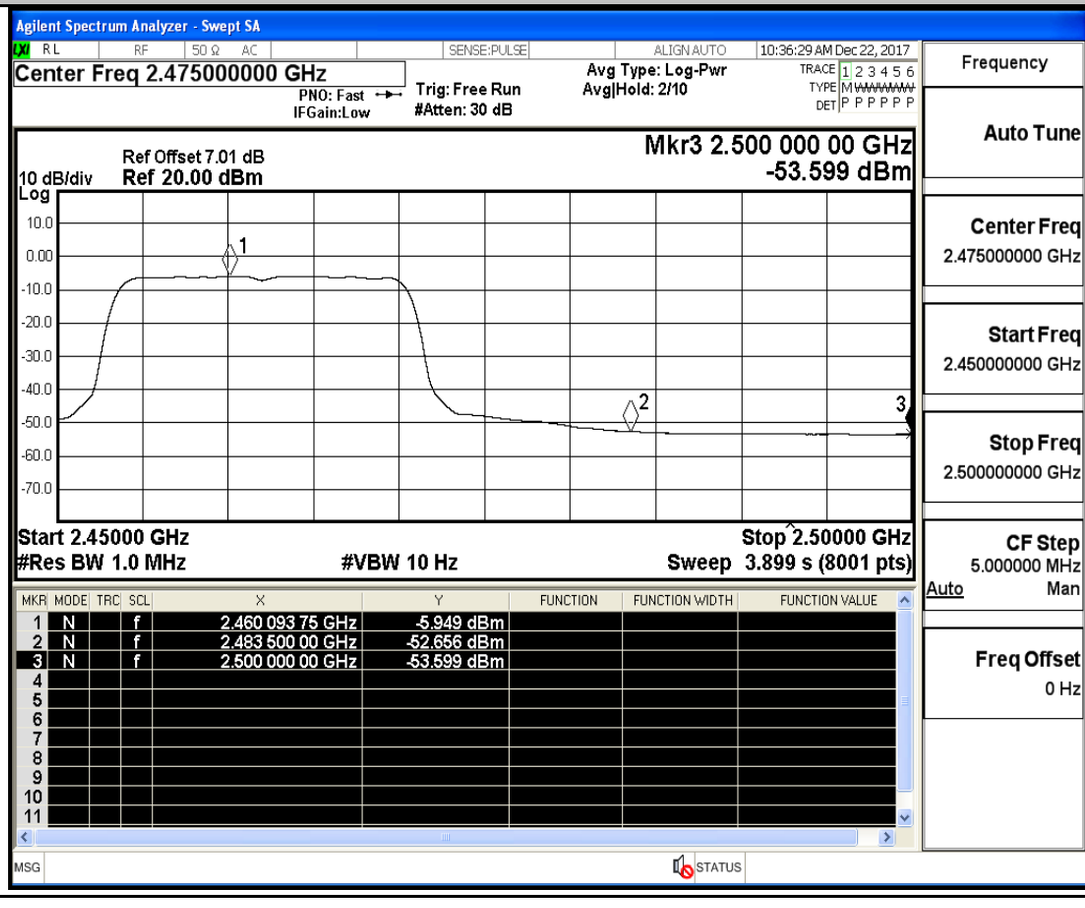

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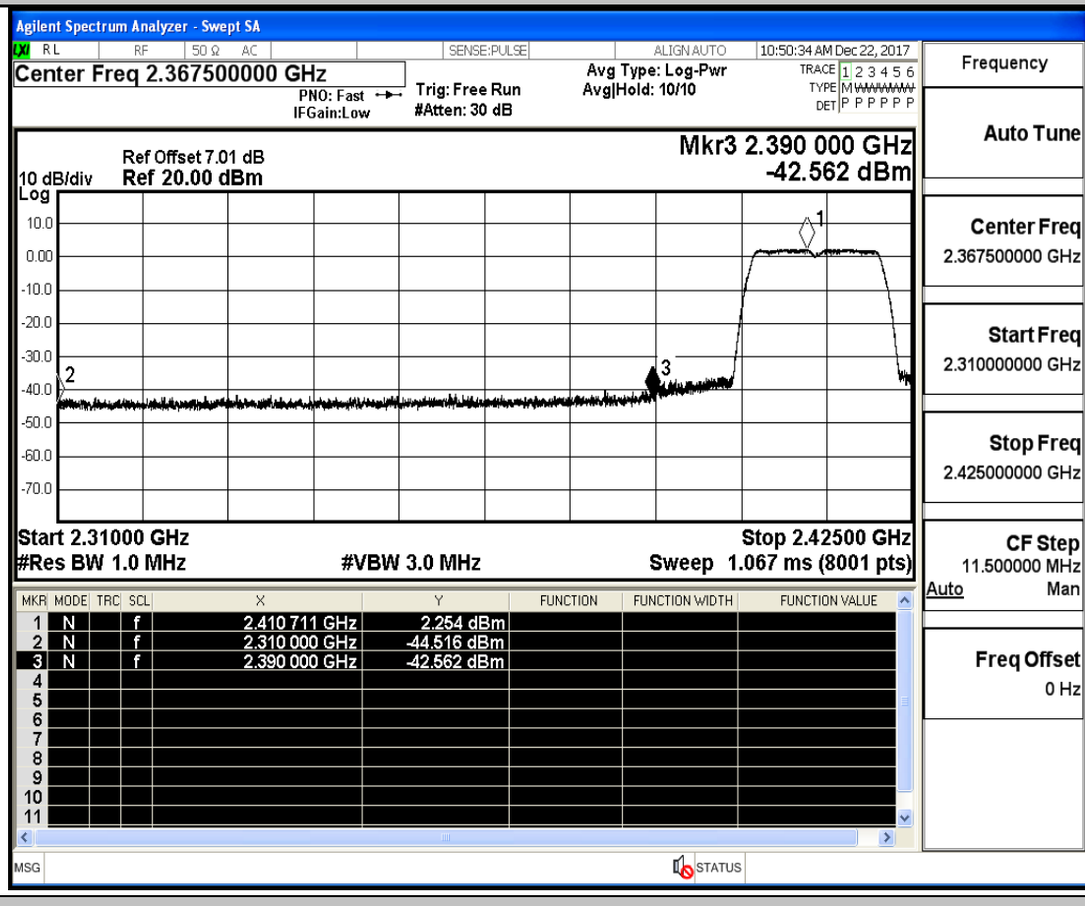

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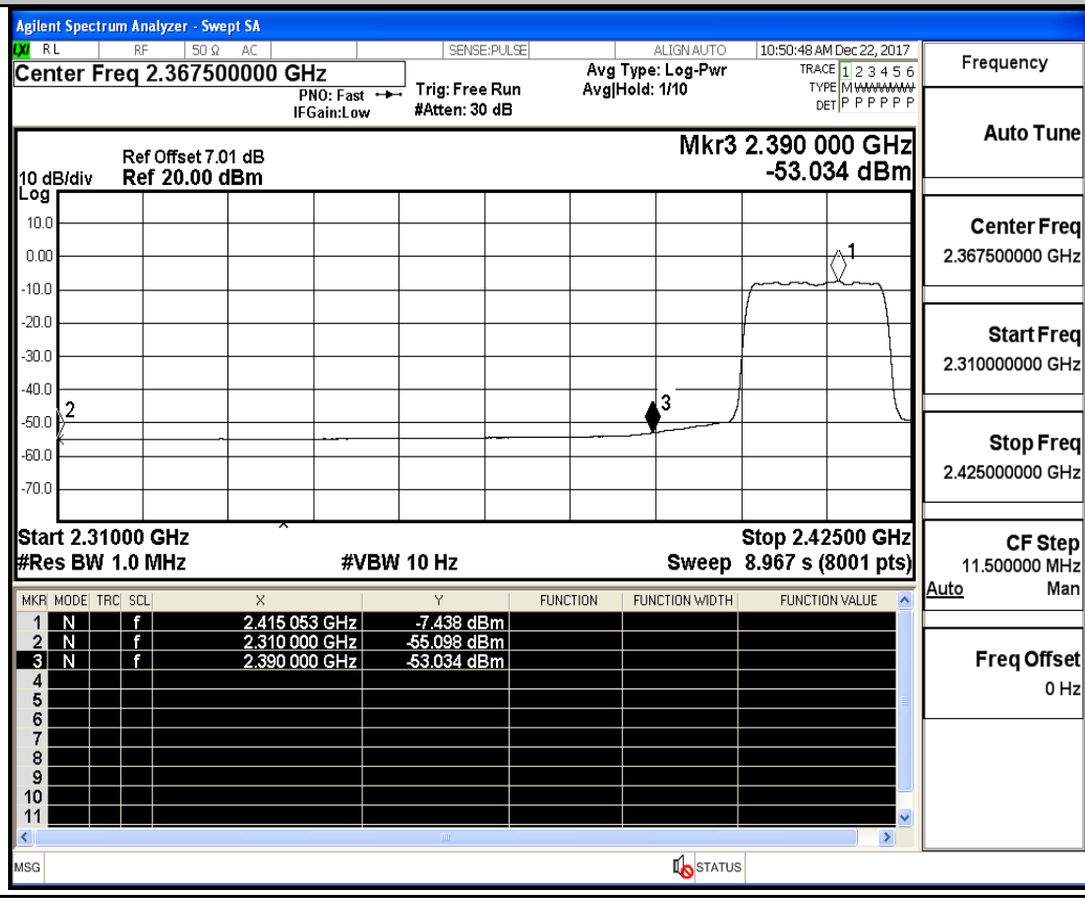

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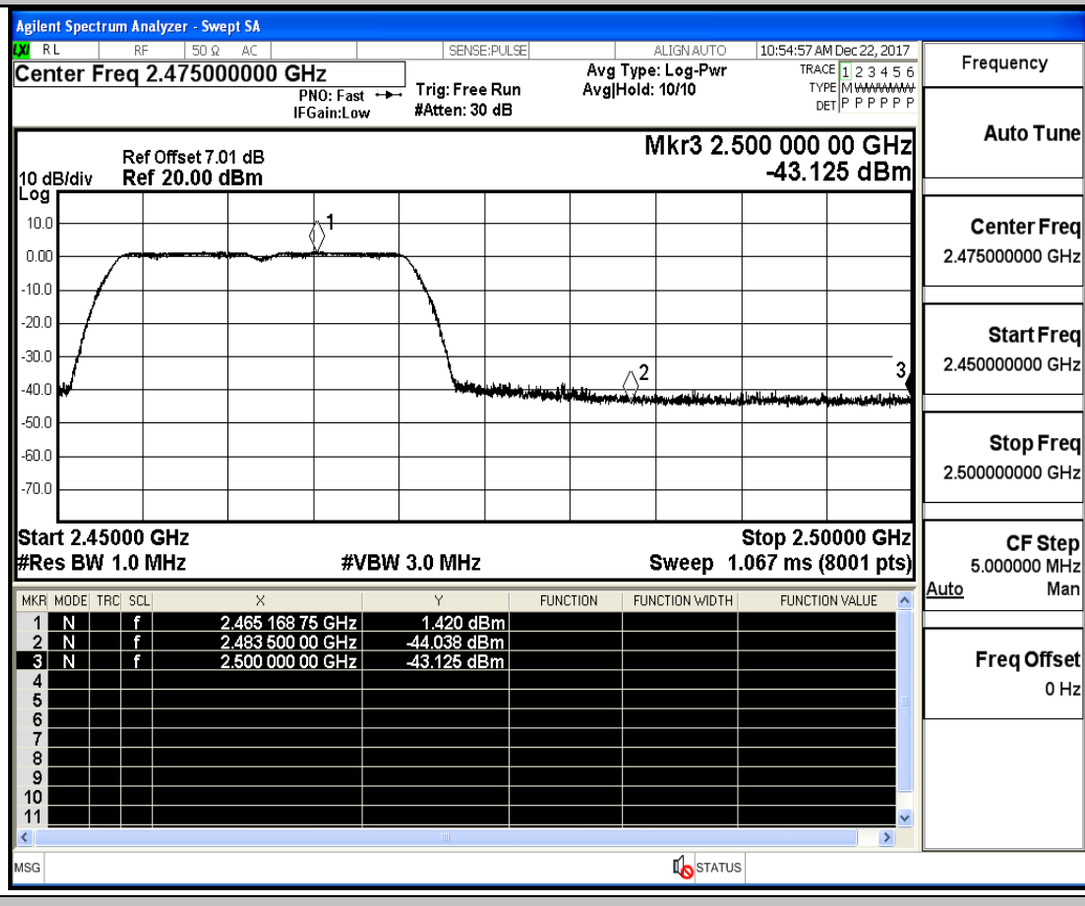

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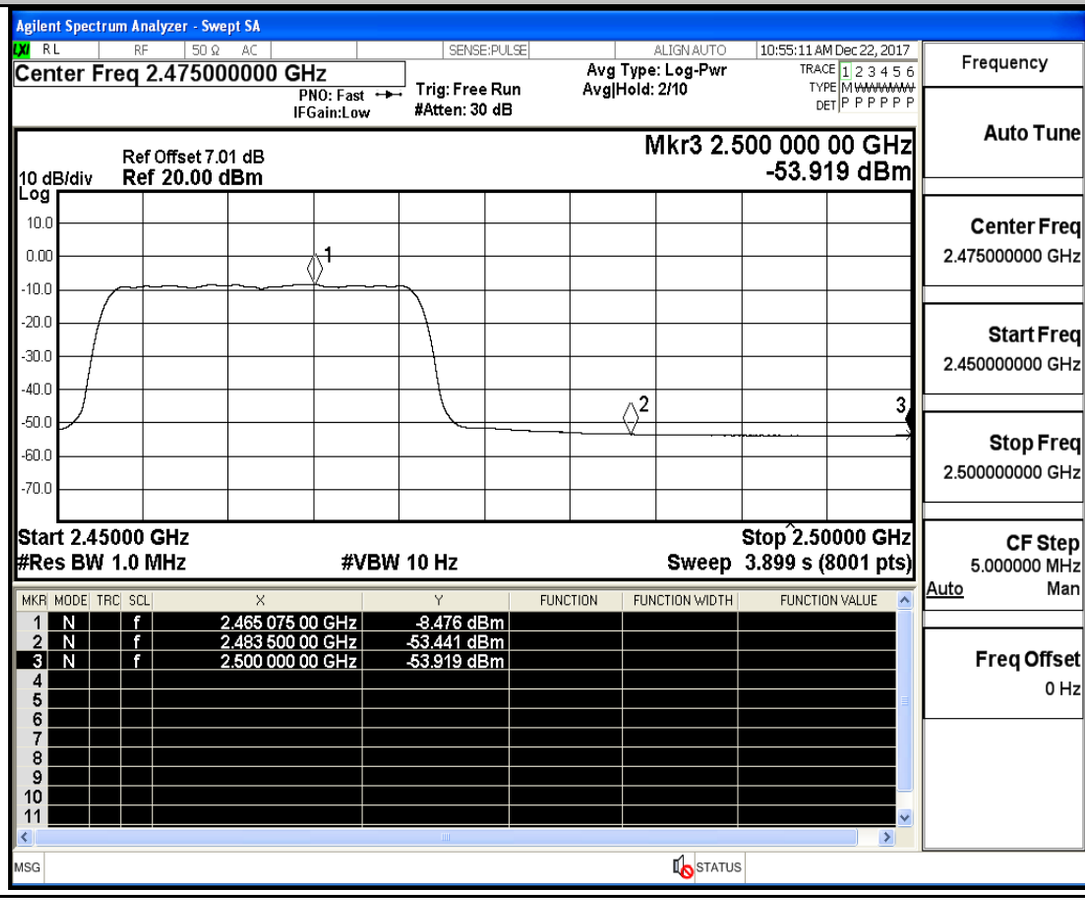
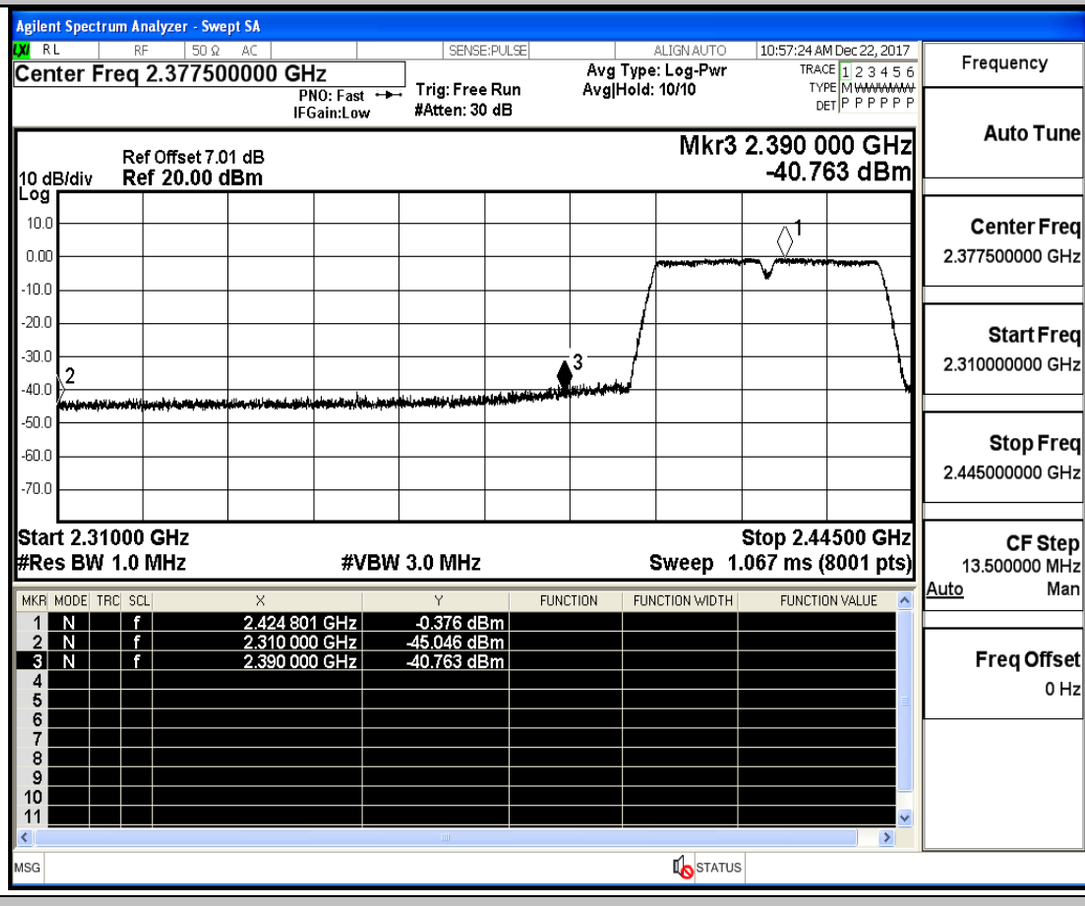
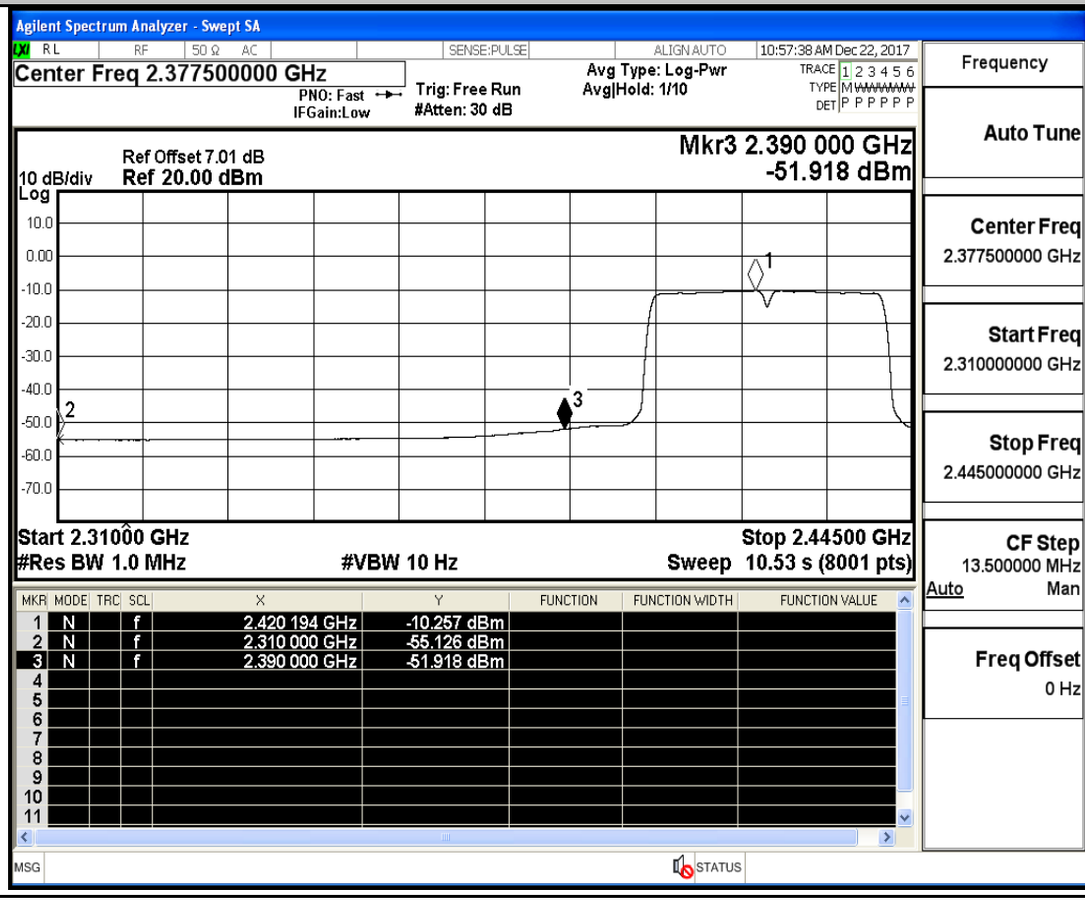


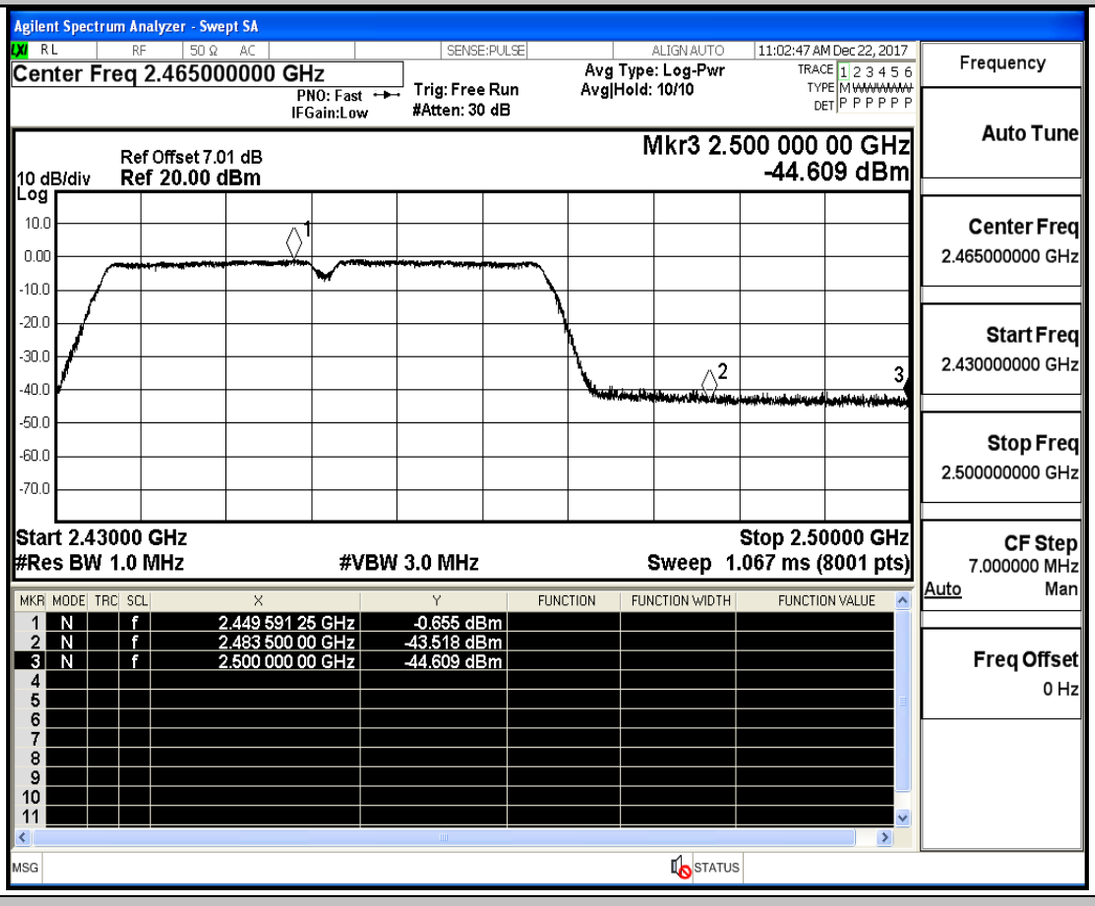
Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



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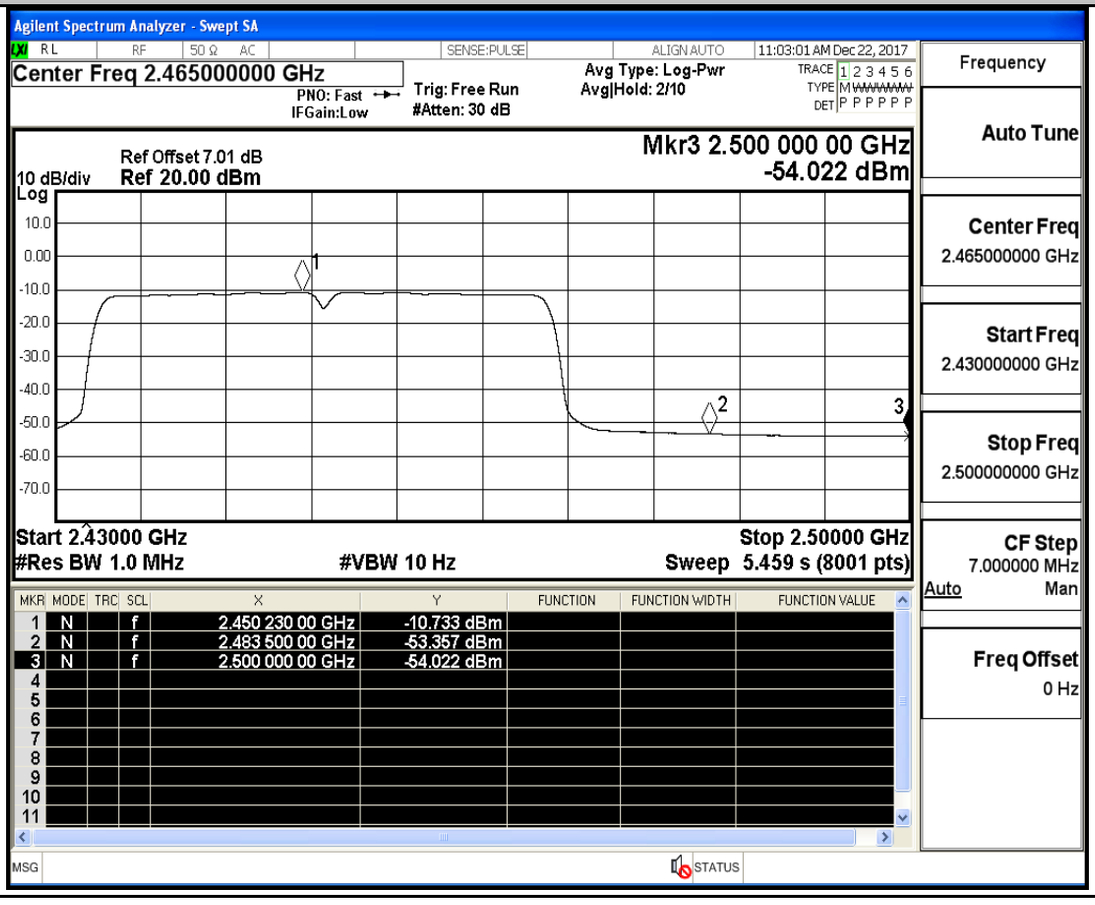
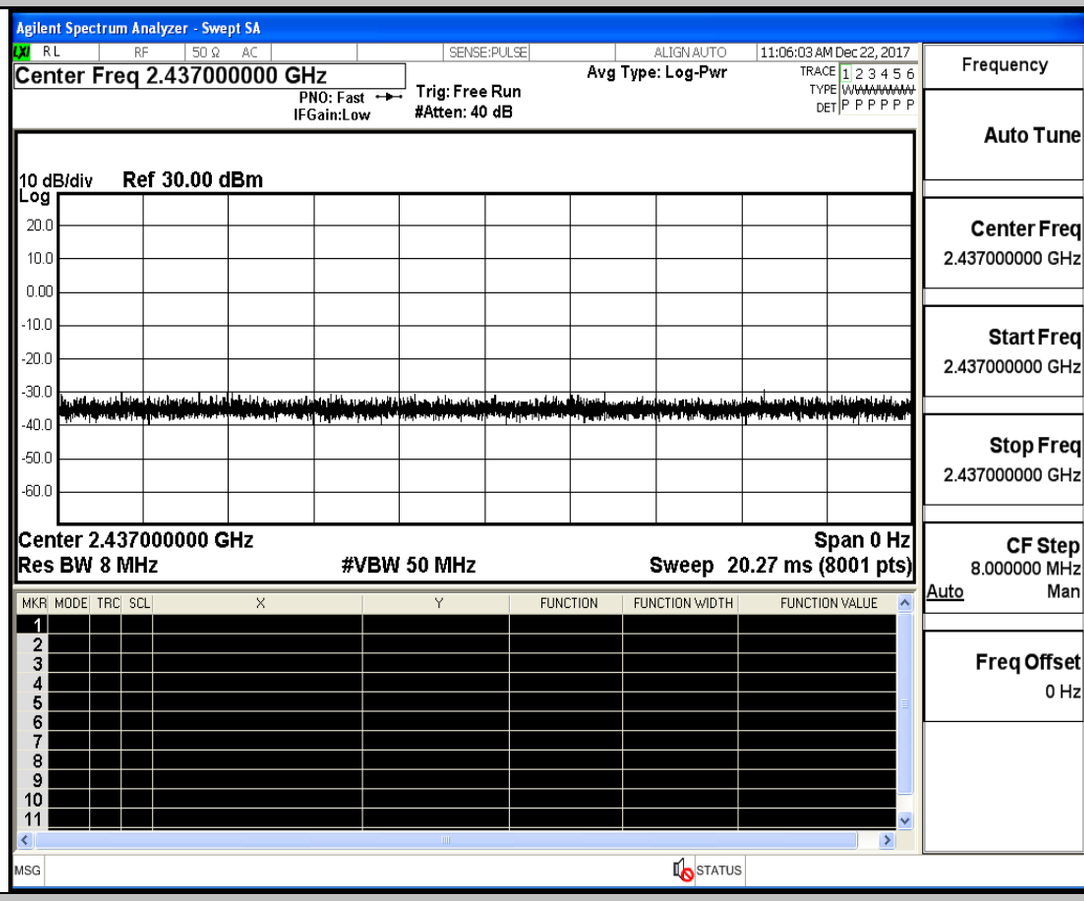


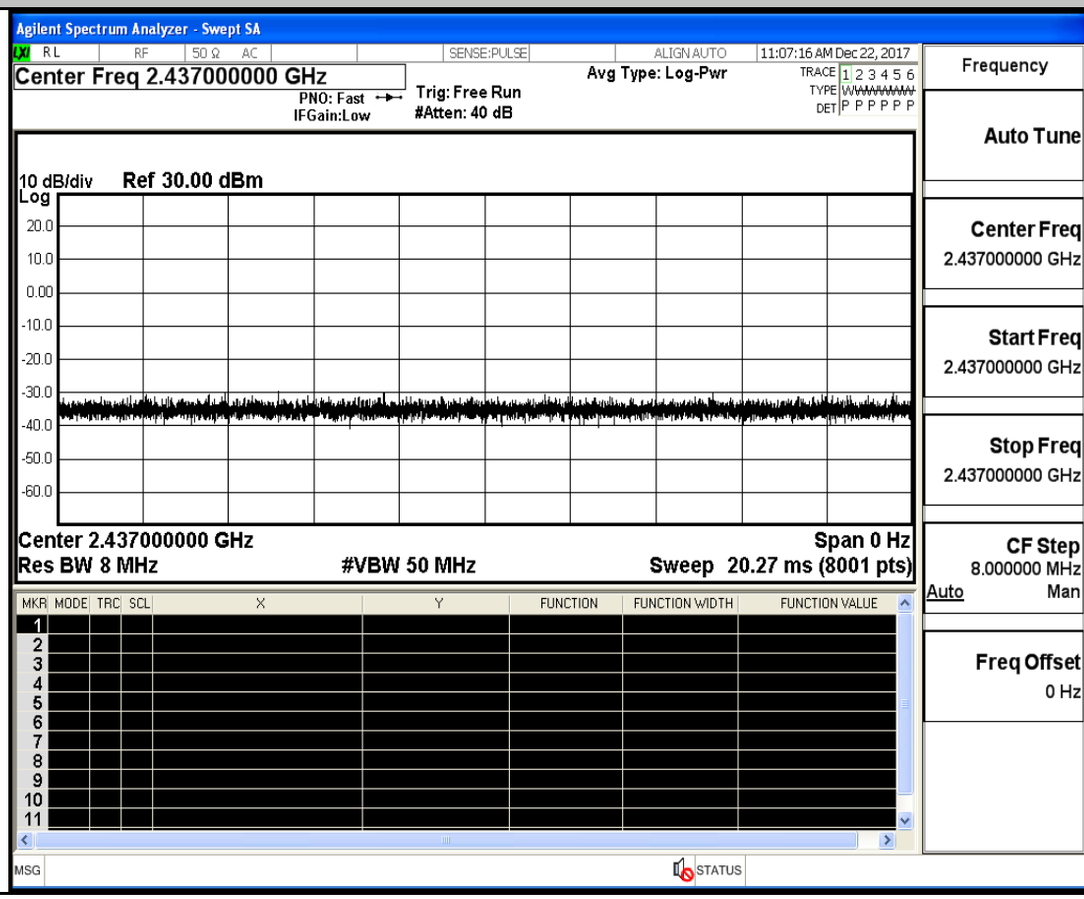
A.7 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



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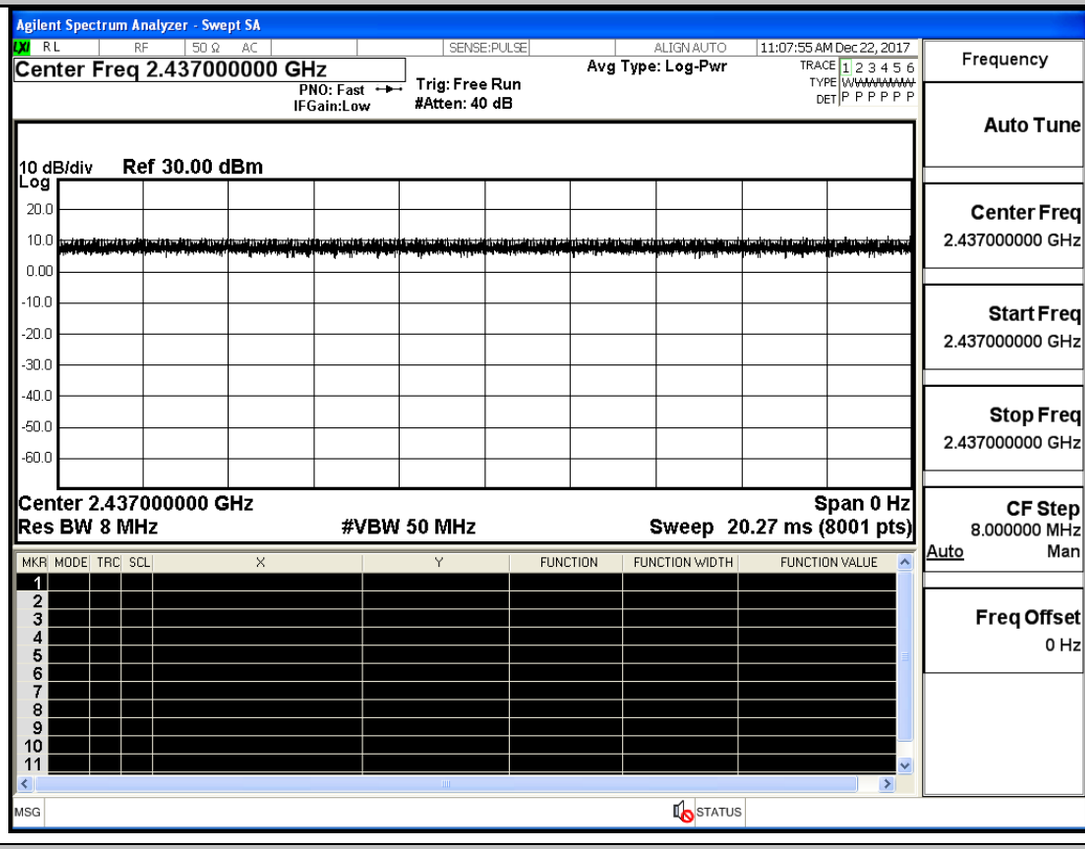
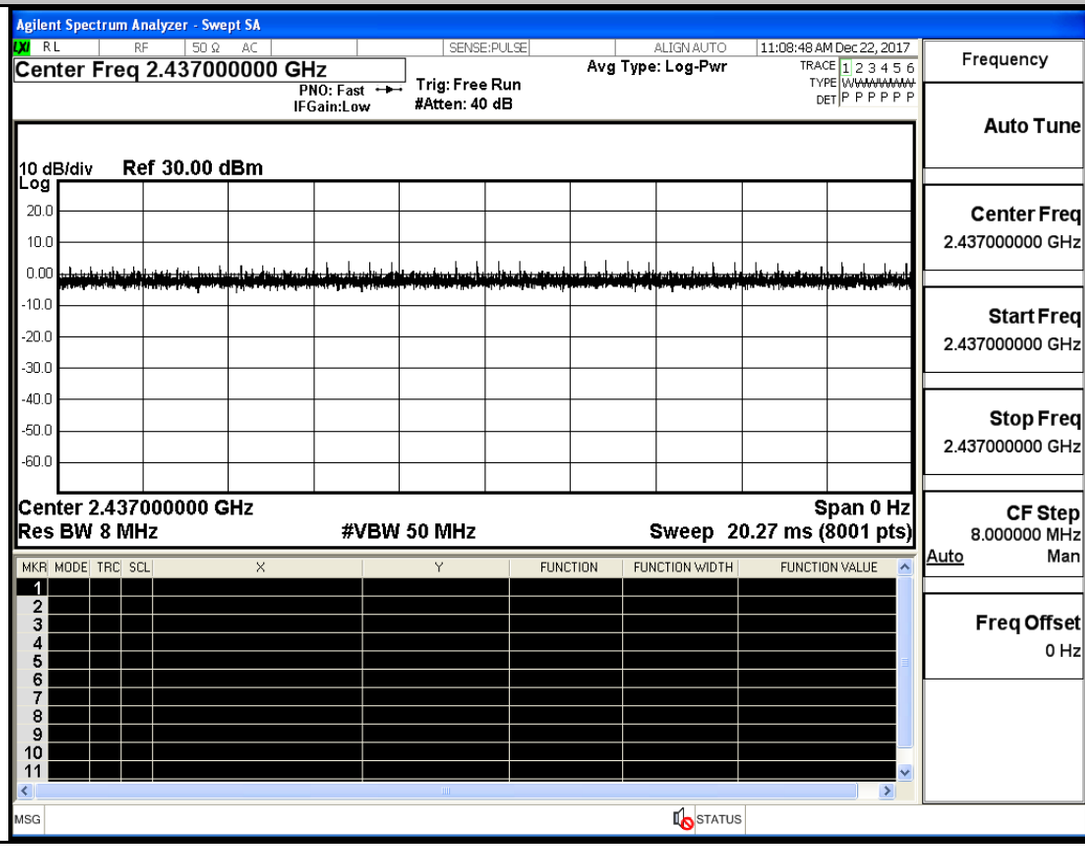
Duty Cycle_11N40SISO_2437_Ant1