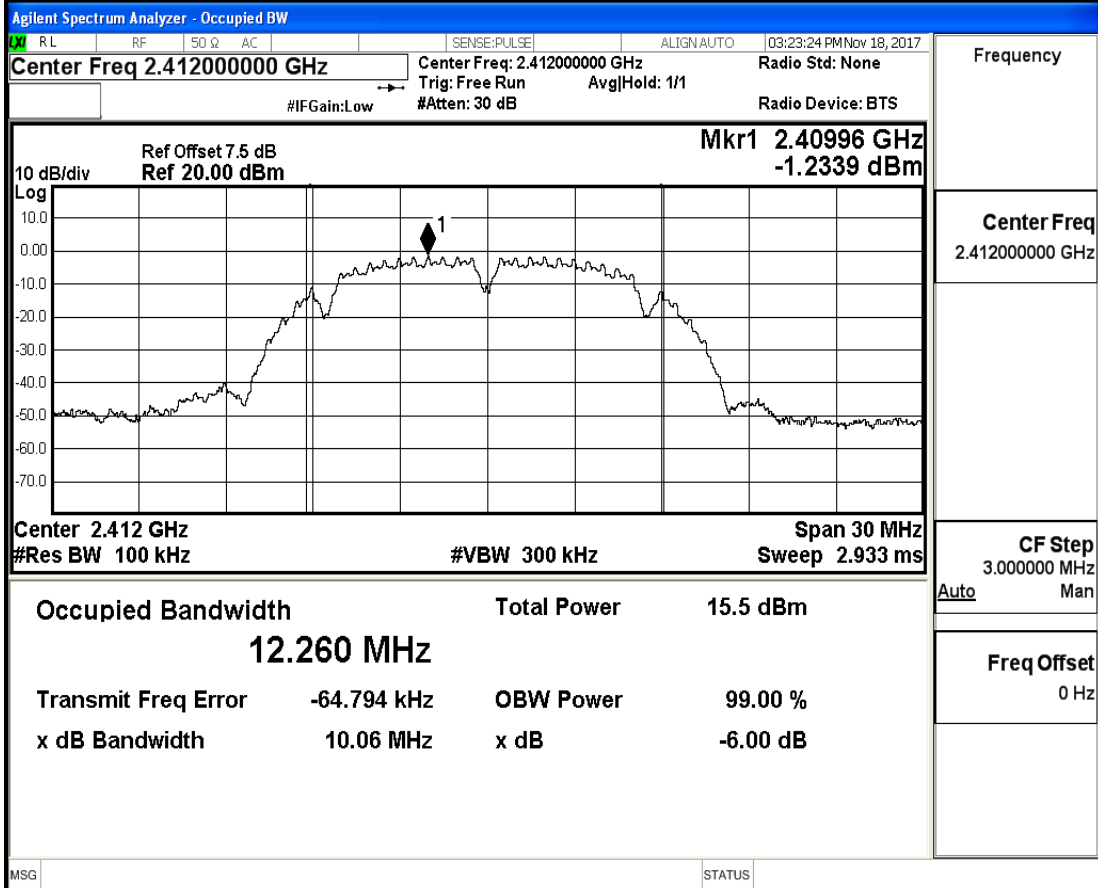


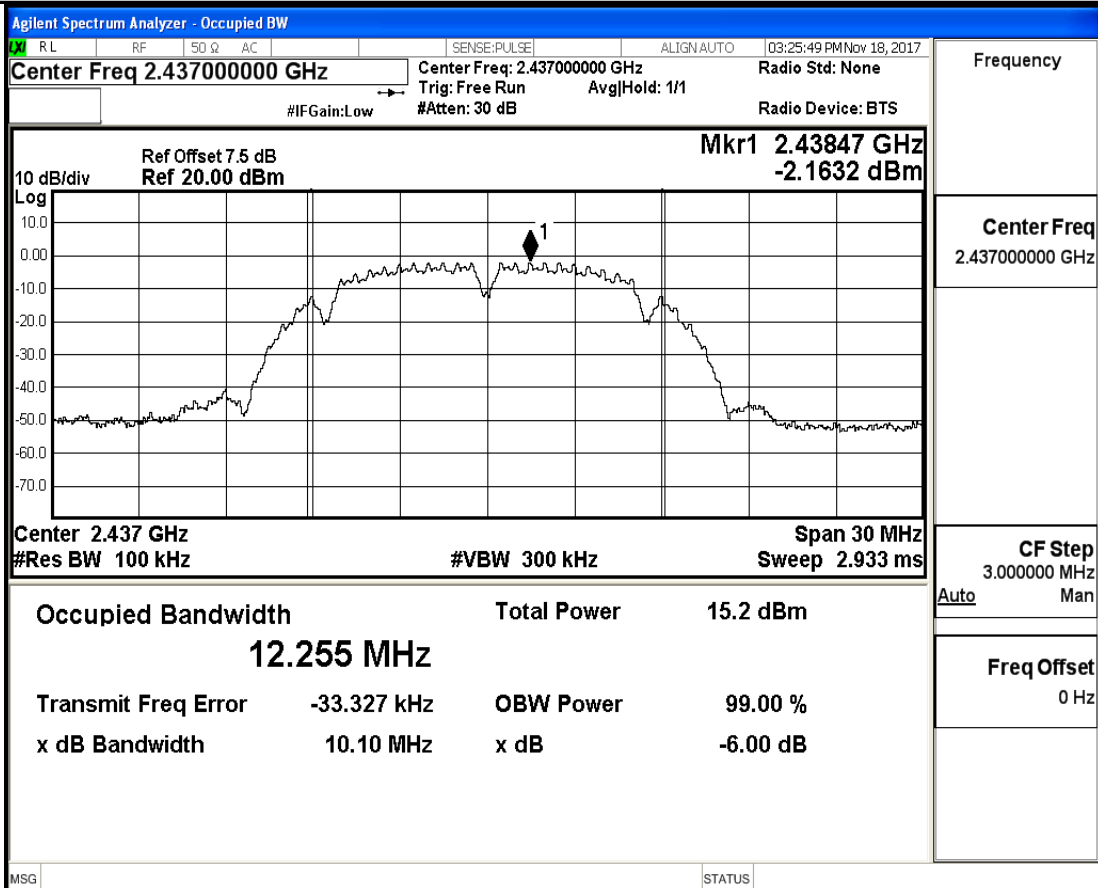
1.6dB Bandwidth

Test Mode	Test Channel	Ant	OBW[MHz]	Limit	Verdict
11B	2412	Ant1	10.06	0.5	PASS
11B	2437	Ant1	10.10	0.5	PASS
11B	2462	Ant1	10.10	0.5	PASS
11G	2412	Ant1	16.38	0.5	PASS
11G	2437	Ant1	16.38	0.5	PASS
11G	2462	Ant1	16.37	0.5	PASS
11N20SISO	2412	Ant1	17.07	0.5	PASS
11N20SISO	2437	Ant1	17.18	0.5	PASS
11N20SISO	2462	Ant1	17.07	0.5	PASS
11N40SISO	2422	Ant1	35.40	0.5	PASS
11N40SISO	2437	Ant1	35.21	0.5	PASS
11N40SISO	2452	Ant1	35.37	0.5	PASS

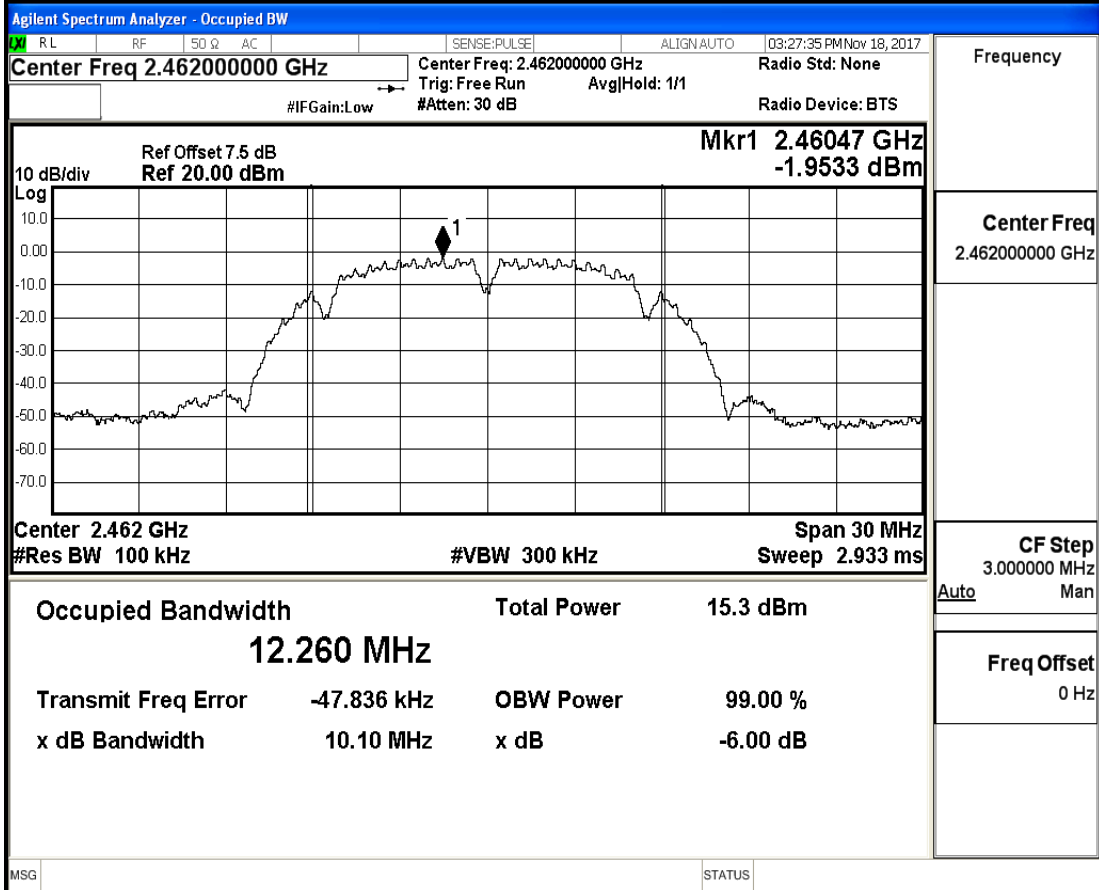
6dB Bandwidth_11B_2412_Ant1



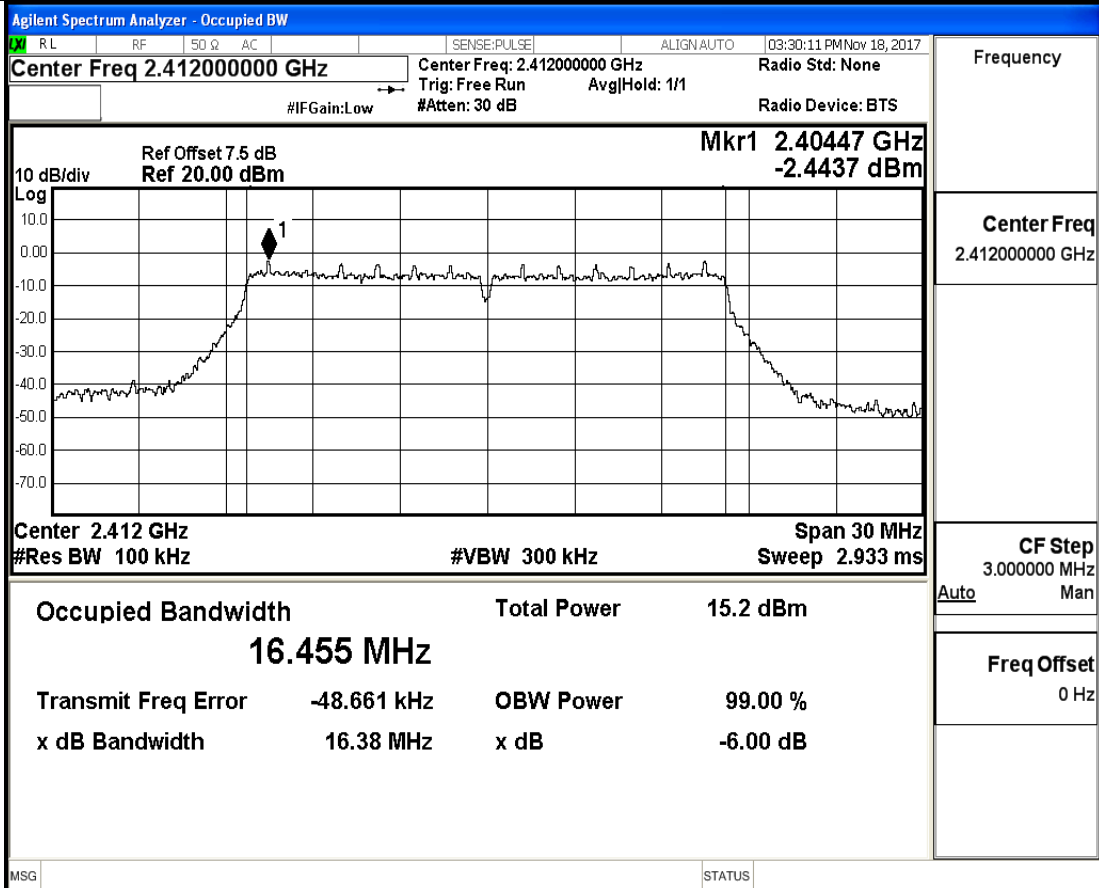
6dB Bandwidth_11B_2437_Ant1



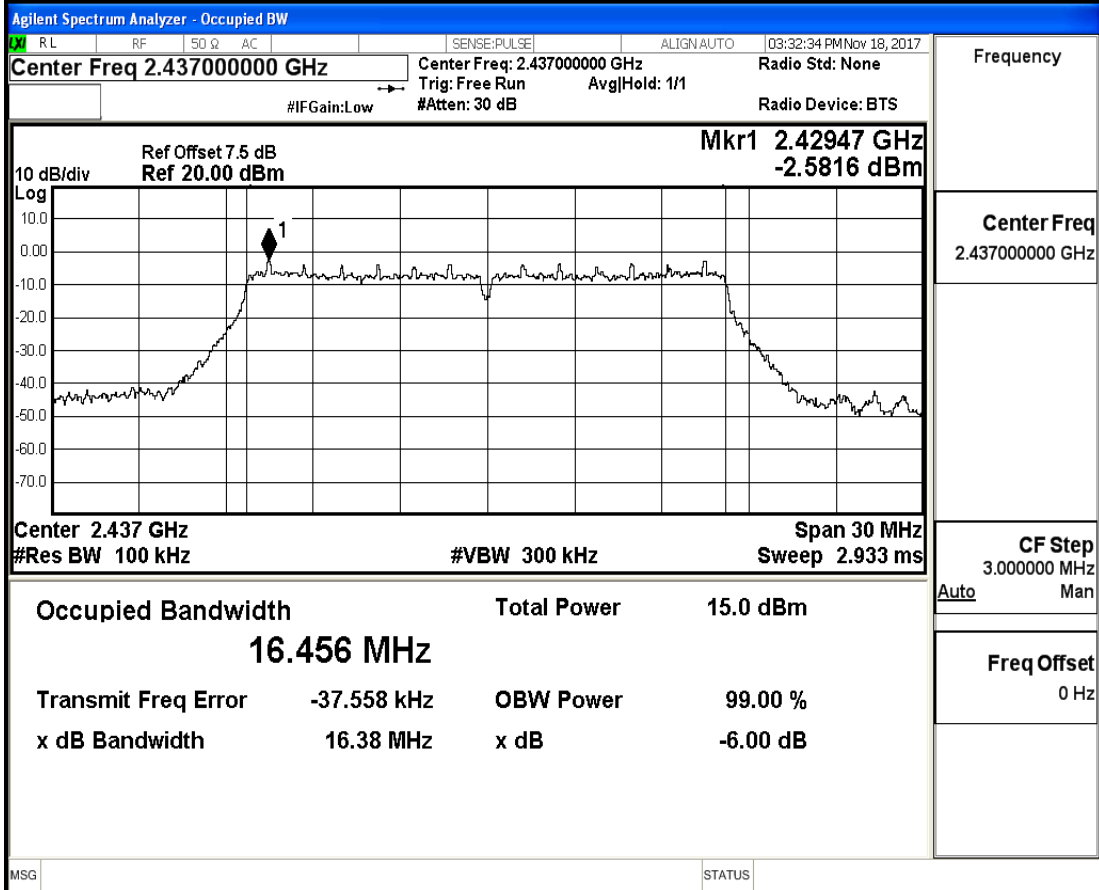
6dB Bandwidth_11B_2462_Ant1



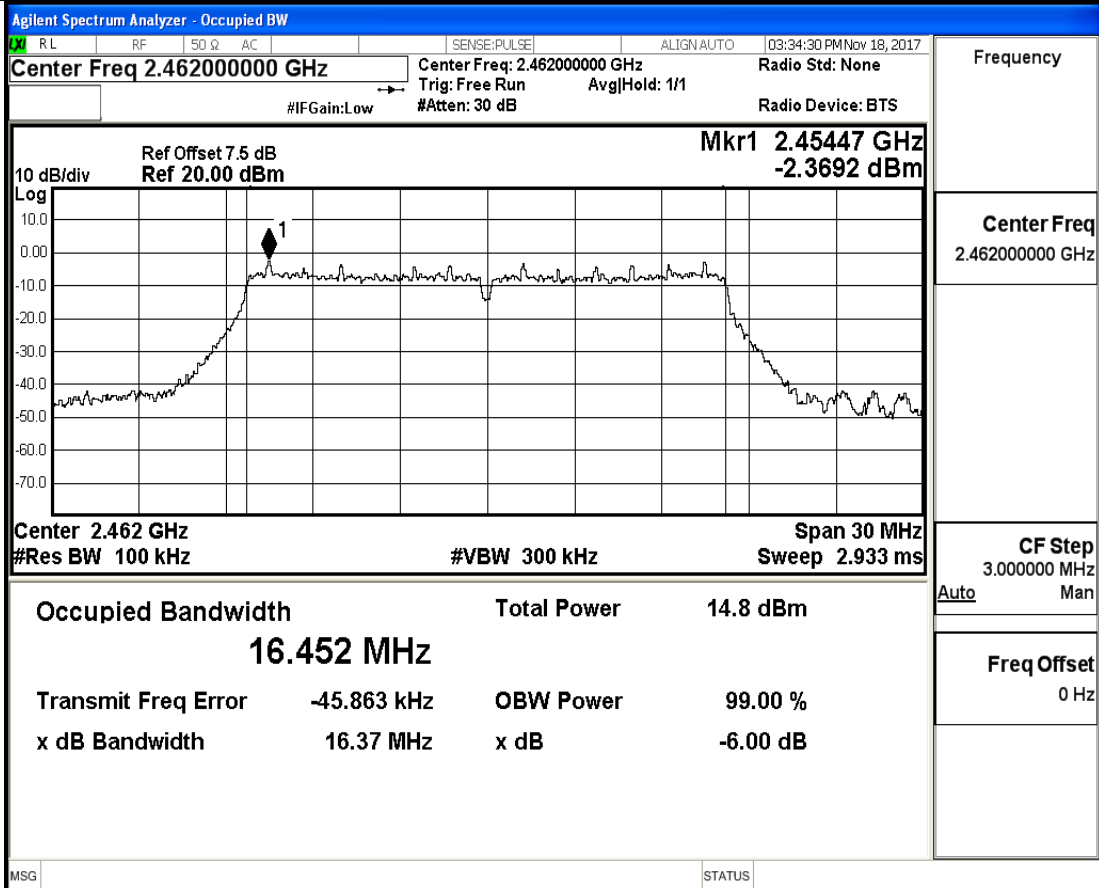
6dB Bandwidth_11G_2412_Ant1



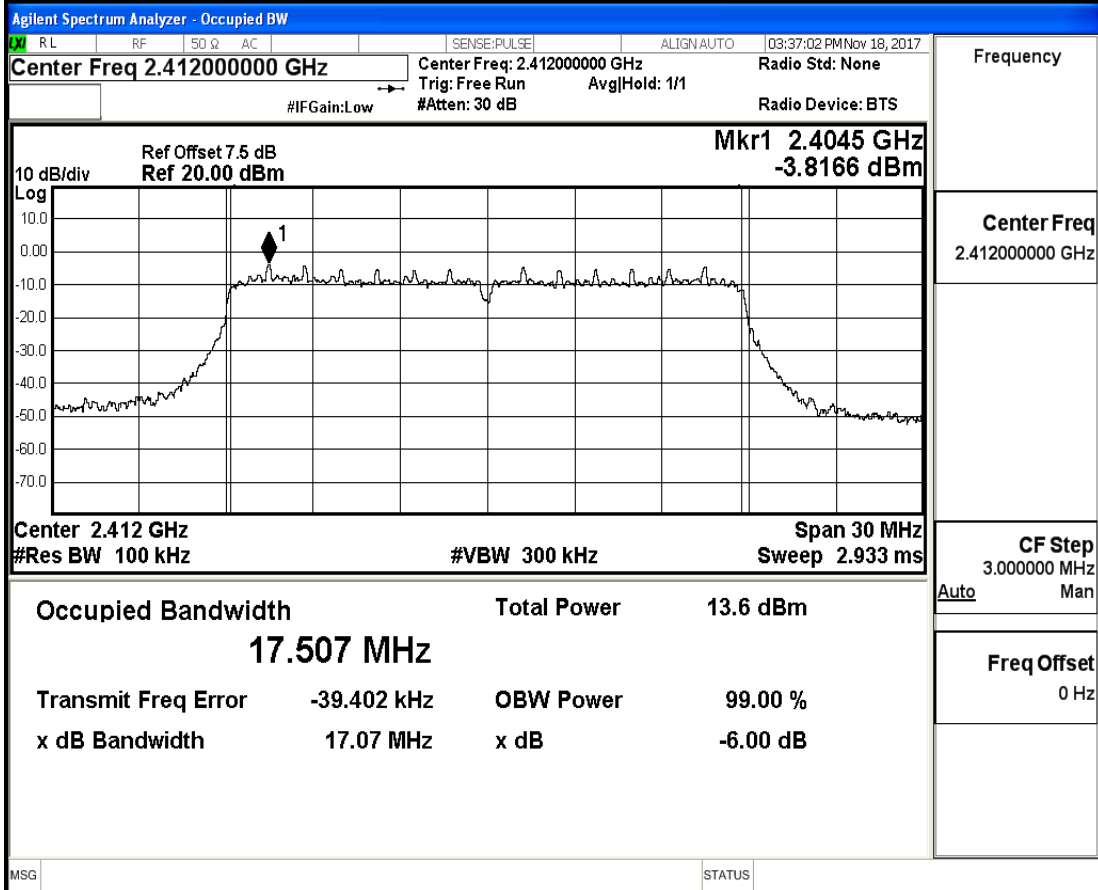
6dB Bandwidth_11G_2437_Ant1



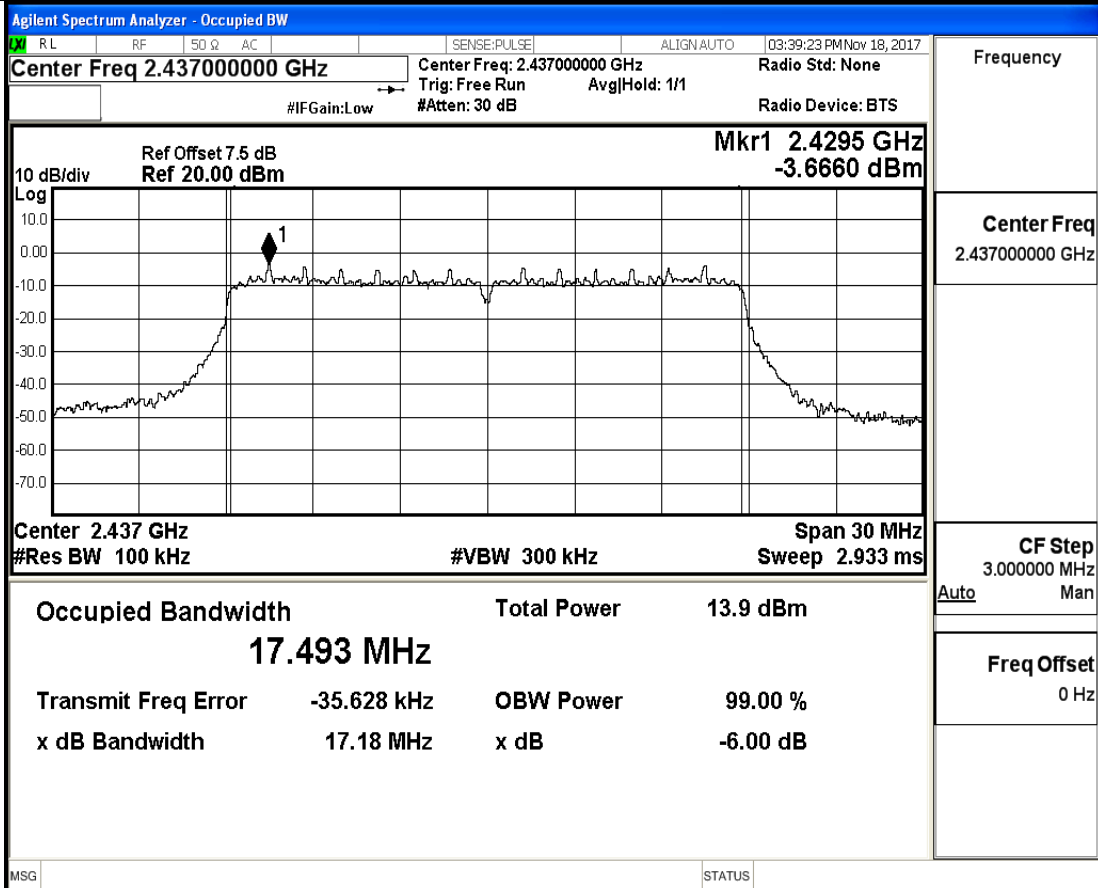
6dB Bandwidth_11G_2462_Ant1



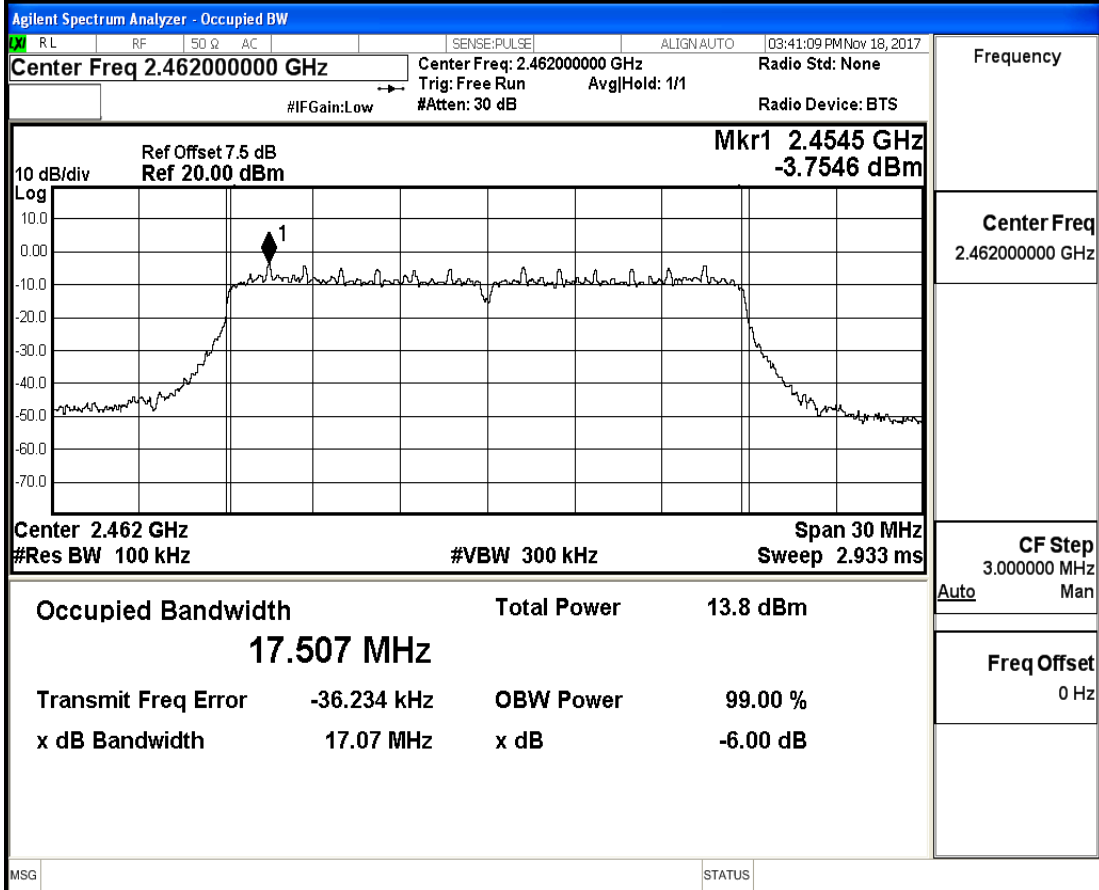
6dB Bandwidth_11N20SISO_2412_Ant1



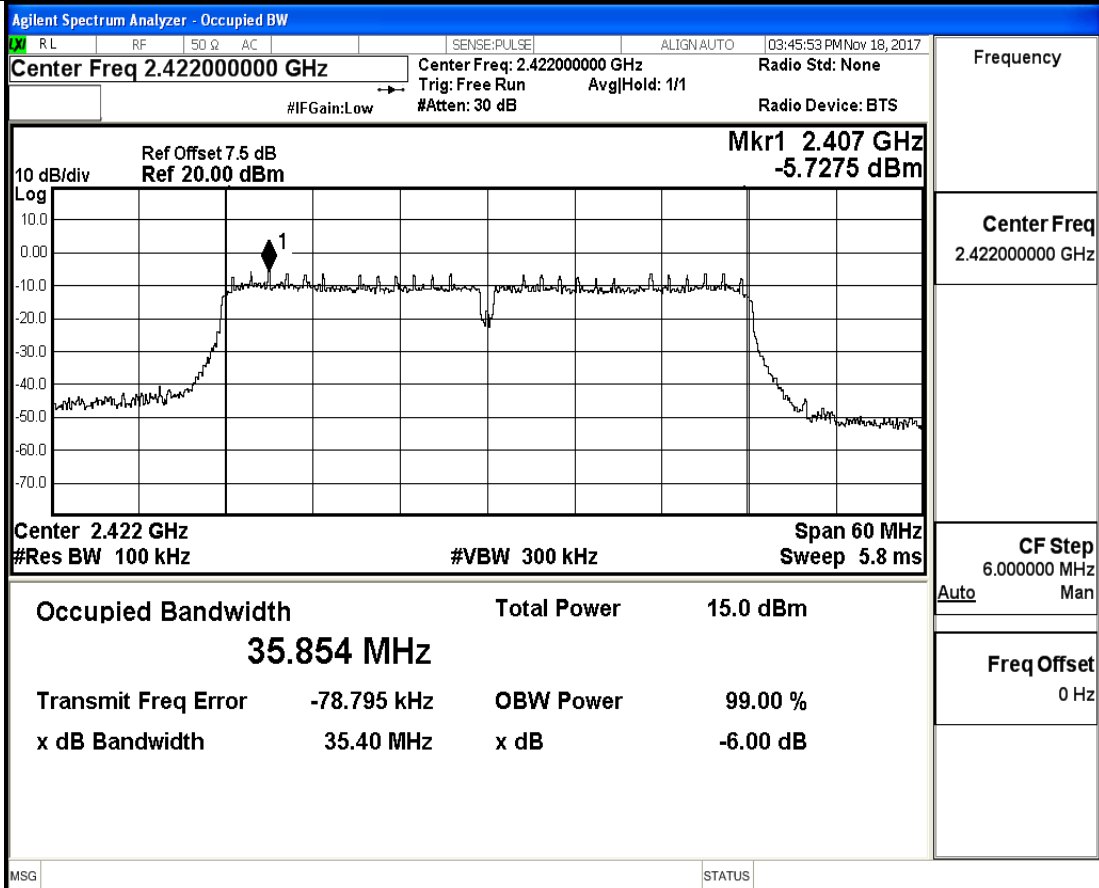
6dB Bandwidth_11N20SISO_2437_Ant1



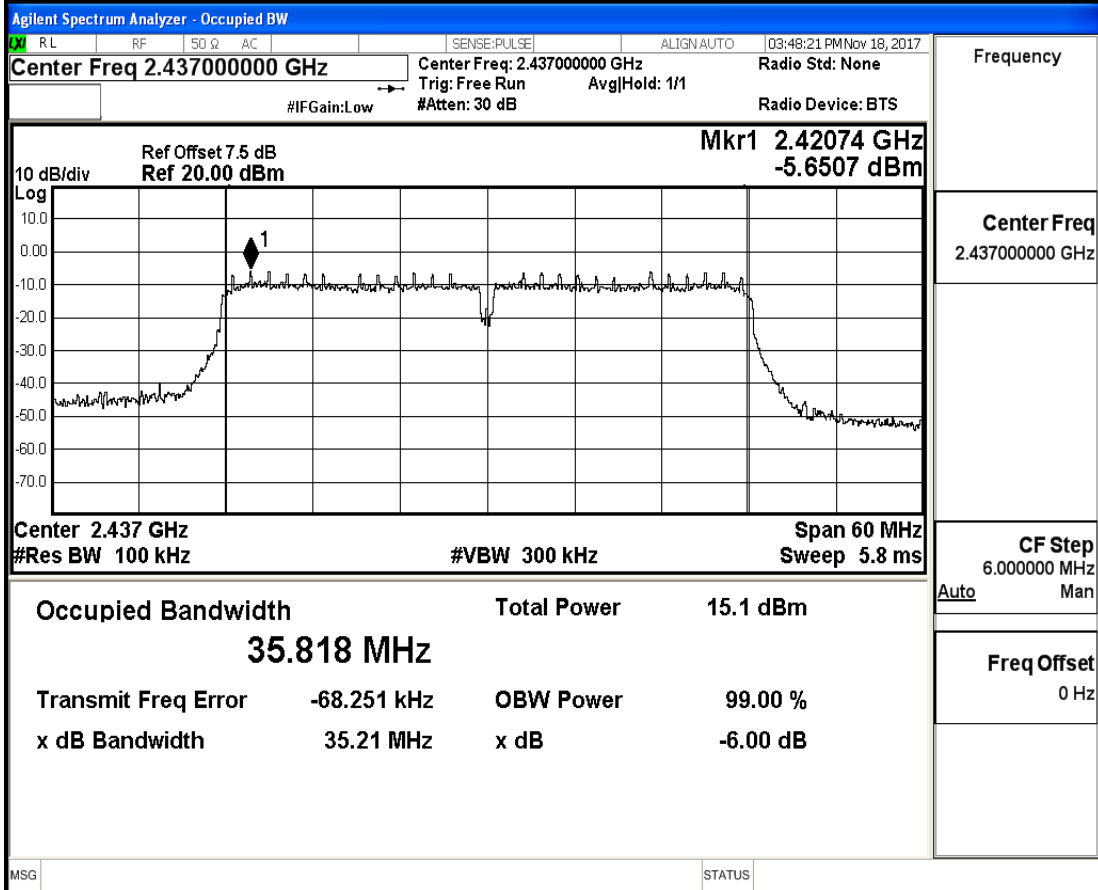
6dB Bandwidth_11N20SISO_2462_Ant1



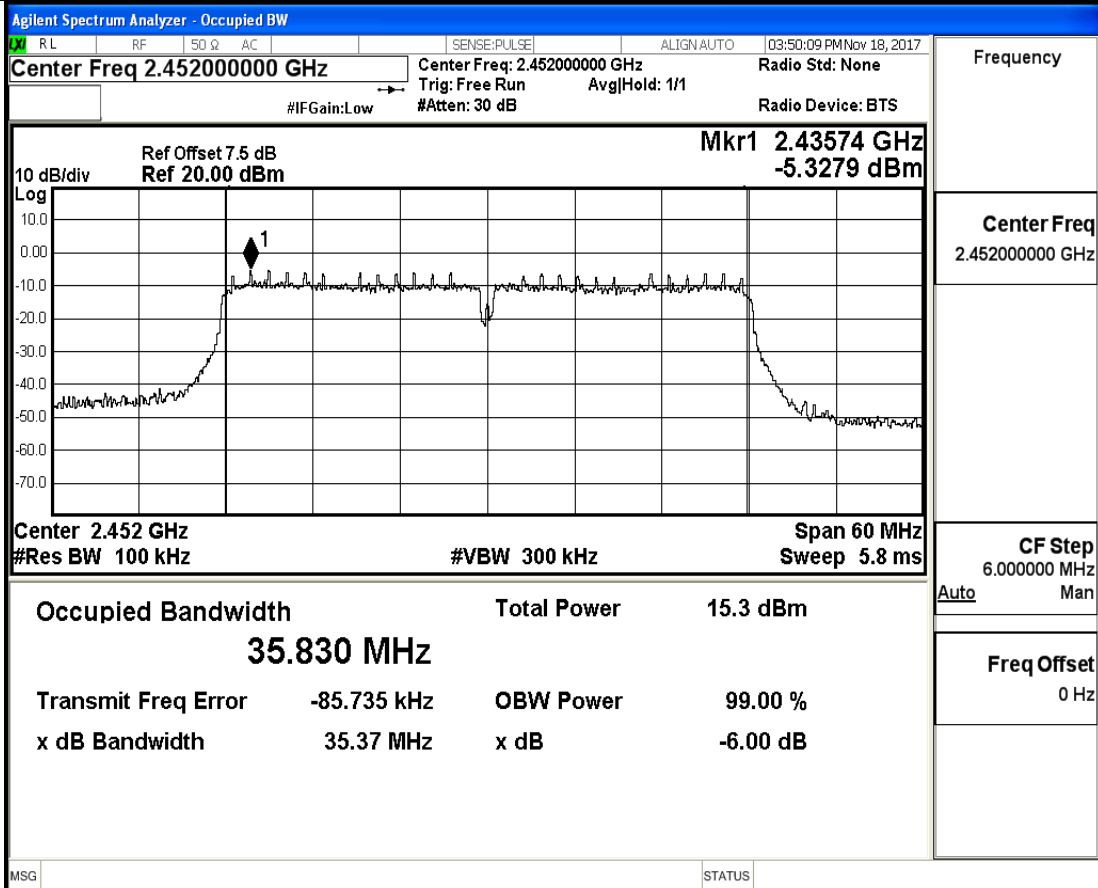
6dB Bandwidth_11N40SISO_2422_Ant1



6dB Bandwidth_11N40SISO_2437_Ant1



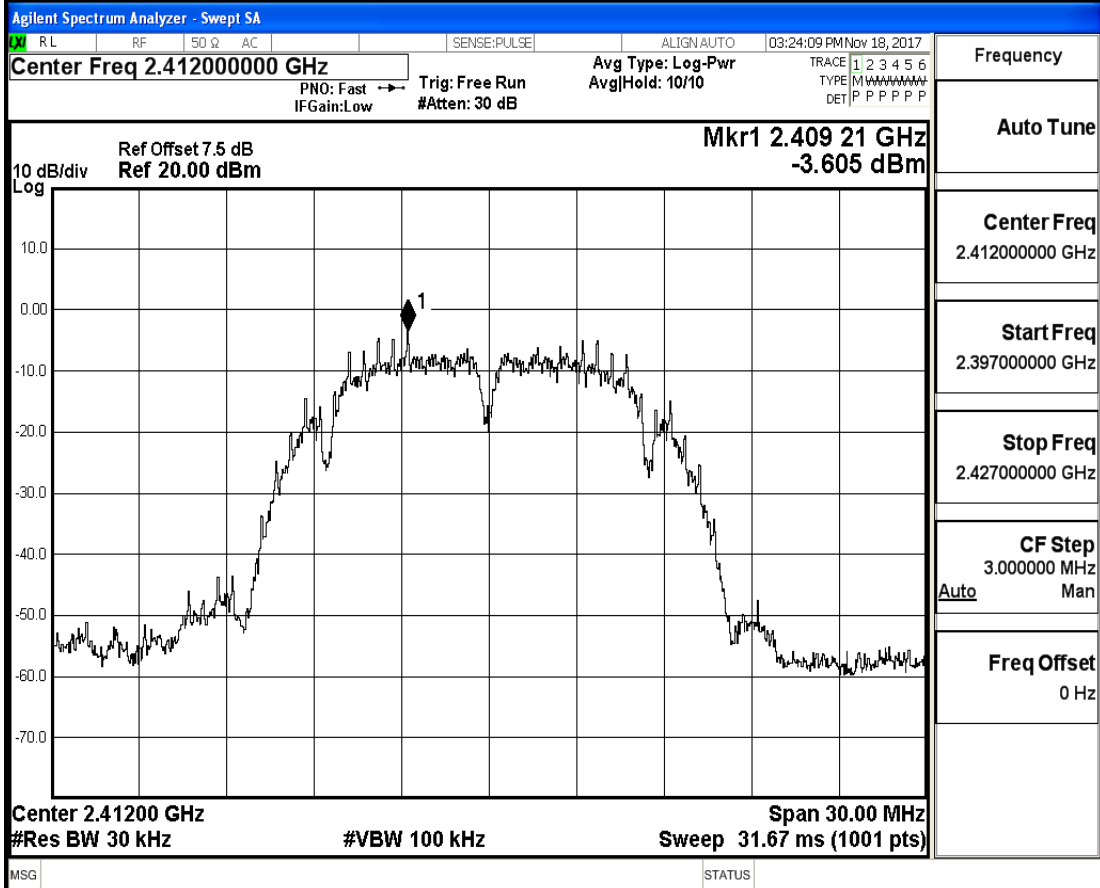
6dB Bandwidth_11N40SISO_2452_Ant1



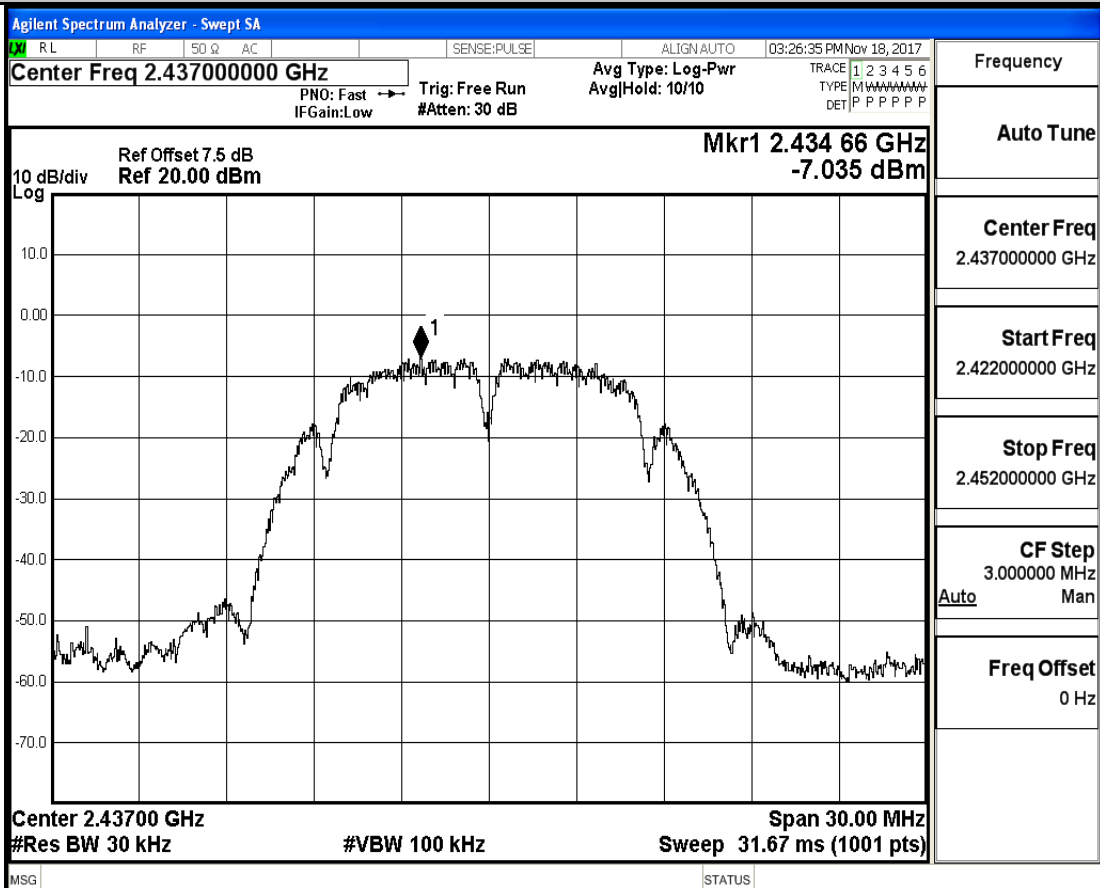
2.Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/30KHz]	Limit[dBm/3KHz]	Verdict
11B	2412	Ant1	-3.605	8.00	PASS
11B	2437	Ant1	-7.035	8.00	PASS
11B	2462	Ant1	-3.291	8.00	PASS
11G	2412	Ant1	-7.378	8.00	PASS
11G	2437	Ant1	-7.614	8.00	PASS
11G	2462	Ant1	-7.144	8.00	PASS
11N20SISO	2412	Ant1	-8.849	8.00	PASS
11N20SISO	2437	Ant1	-8.825	8.00	PASS
11N20SISO	2462	Ant1	-9.168	8.00	PASS
11N40SISO	2422	Ant1	-10.261	8.00	PASS
11N40SISO	2437	Ant1	-10.947	8.00	PASS
11N40SISO	2452	Ant1	-11.153	8.00	PASS

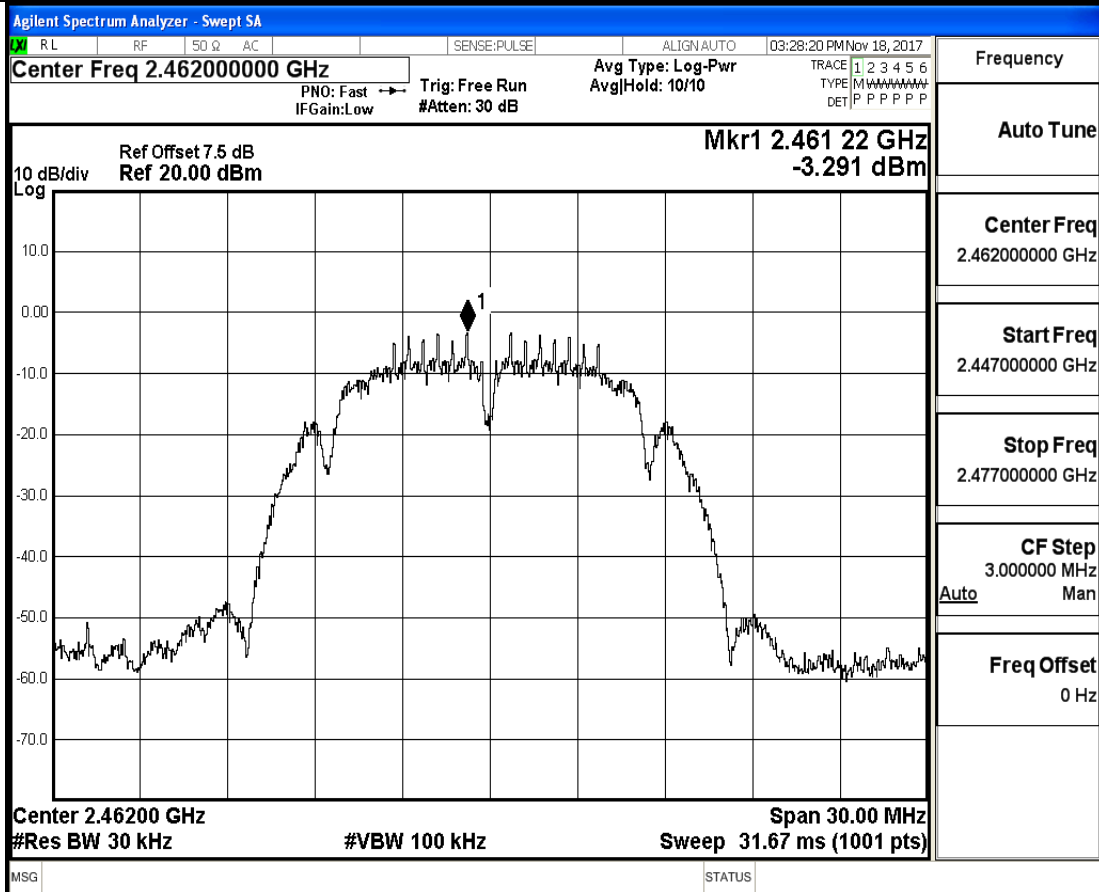
Maximum Peak power spectral density_11B_2412_Ant1



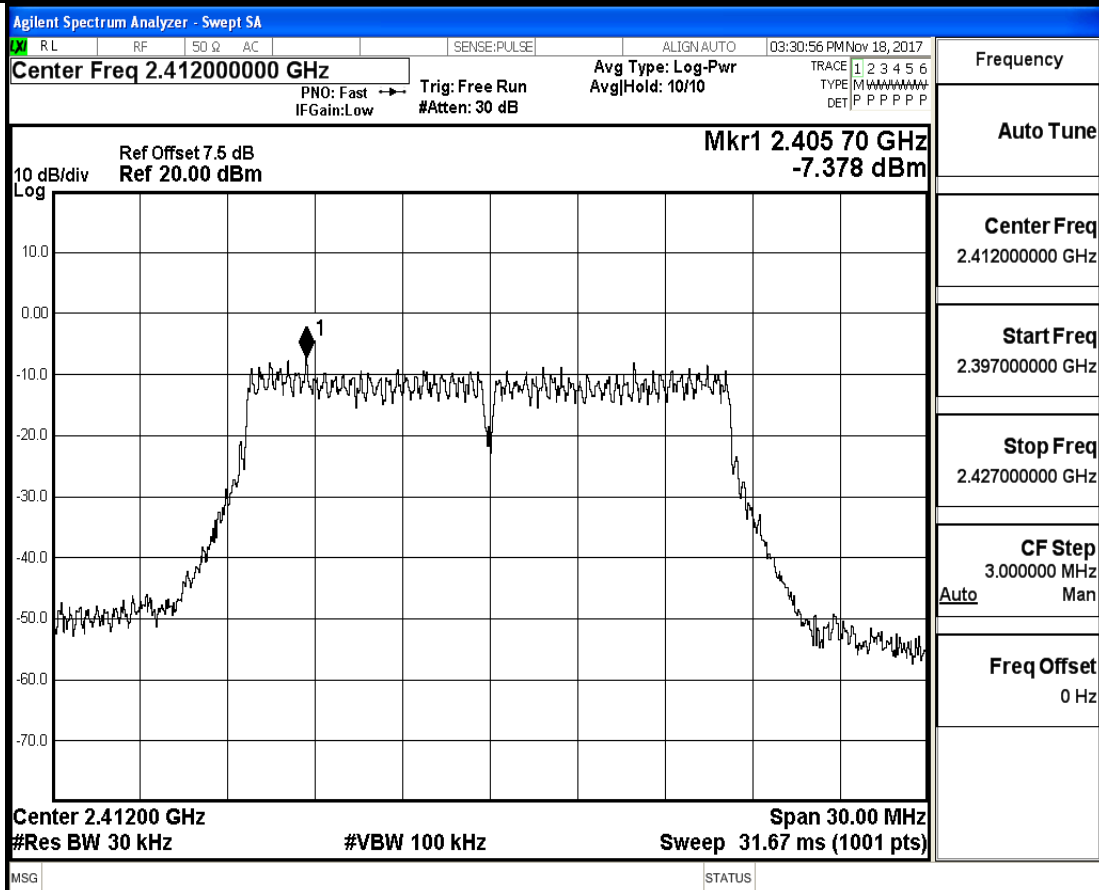
Maximum Peak power spectral density_11B_2437_Ant1



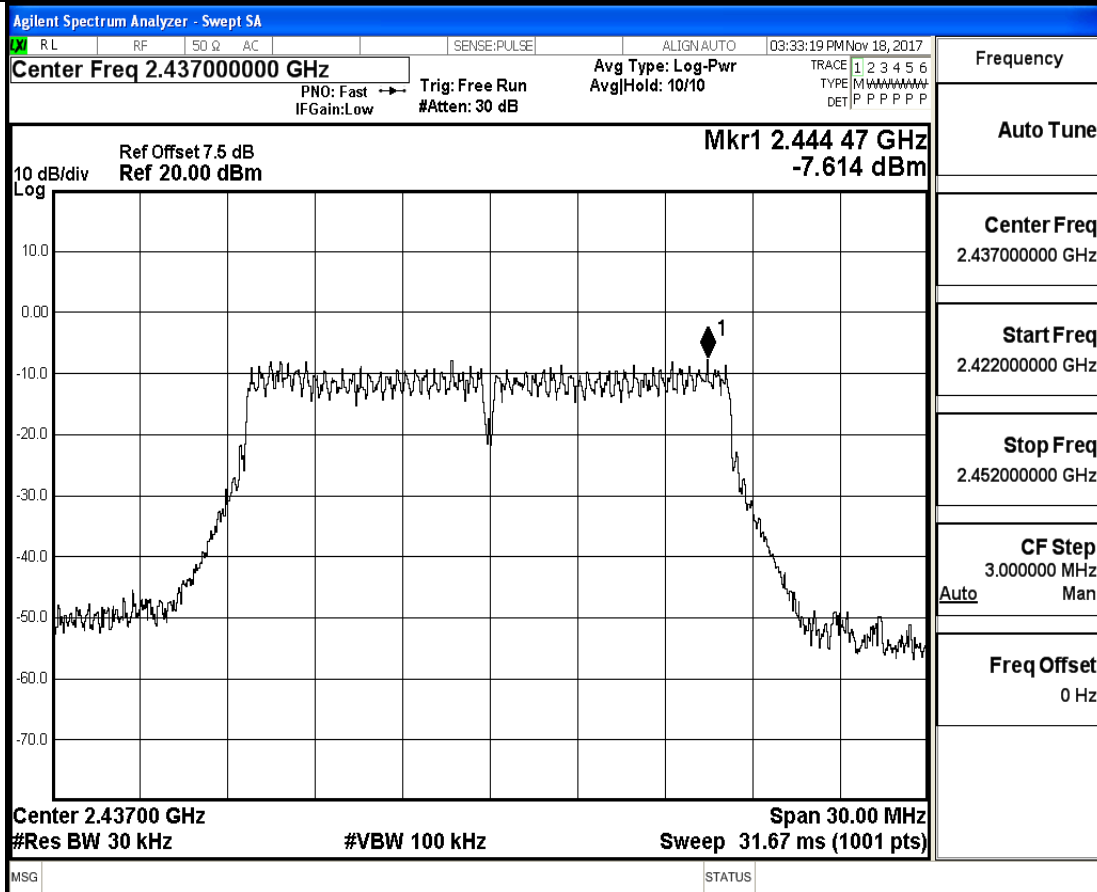
Maximum Peak power spectral density_11B_2462_Ant1



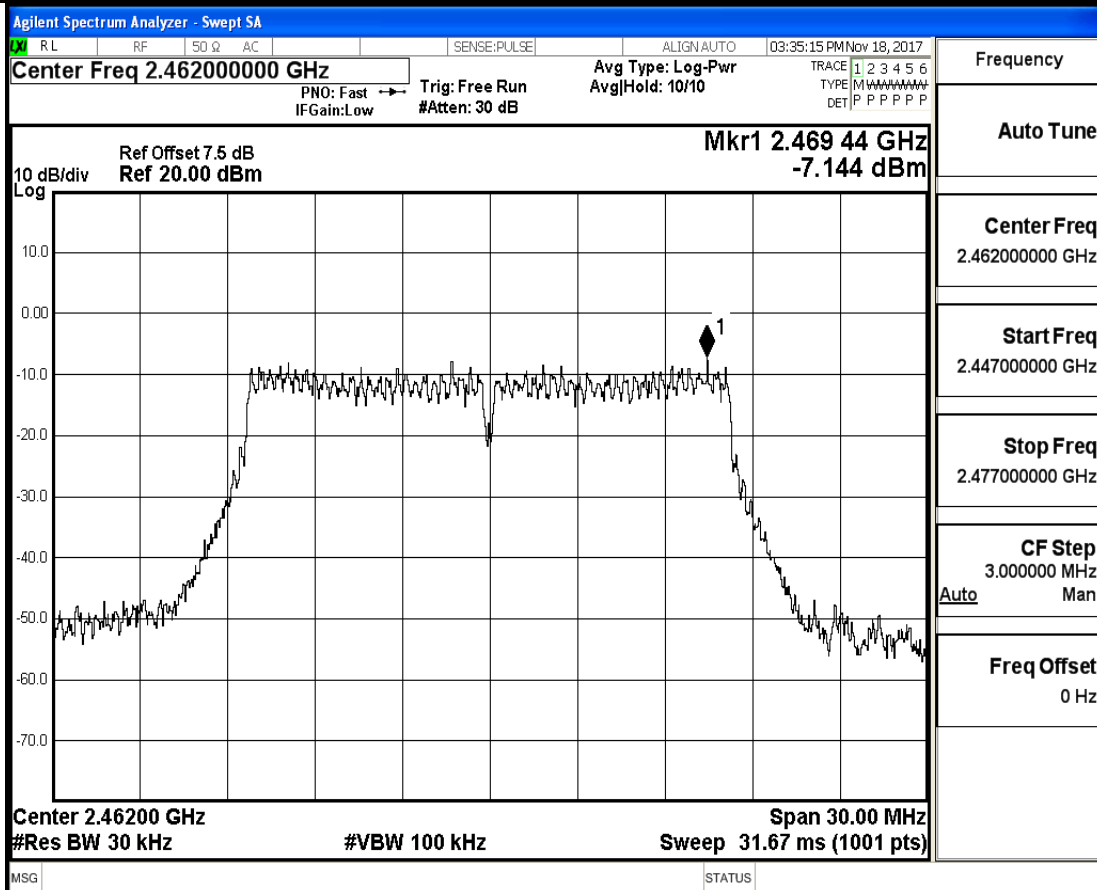
Maximum Peak power spectral density_11G_2412_Ant1



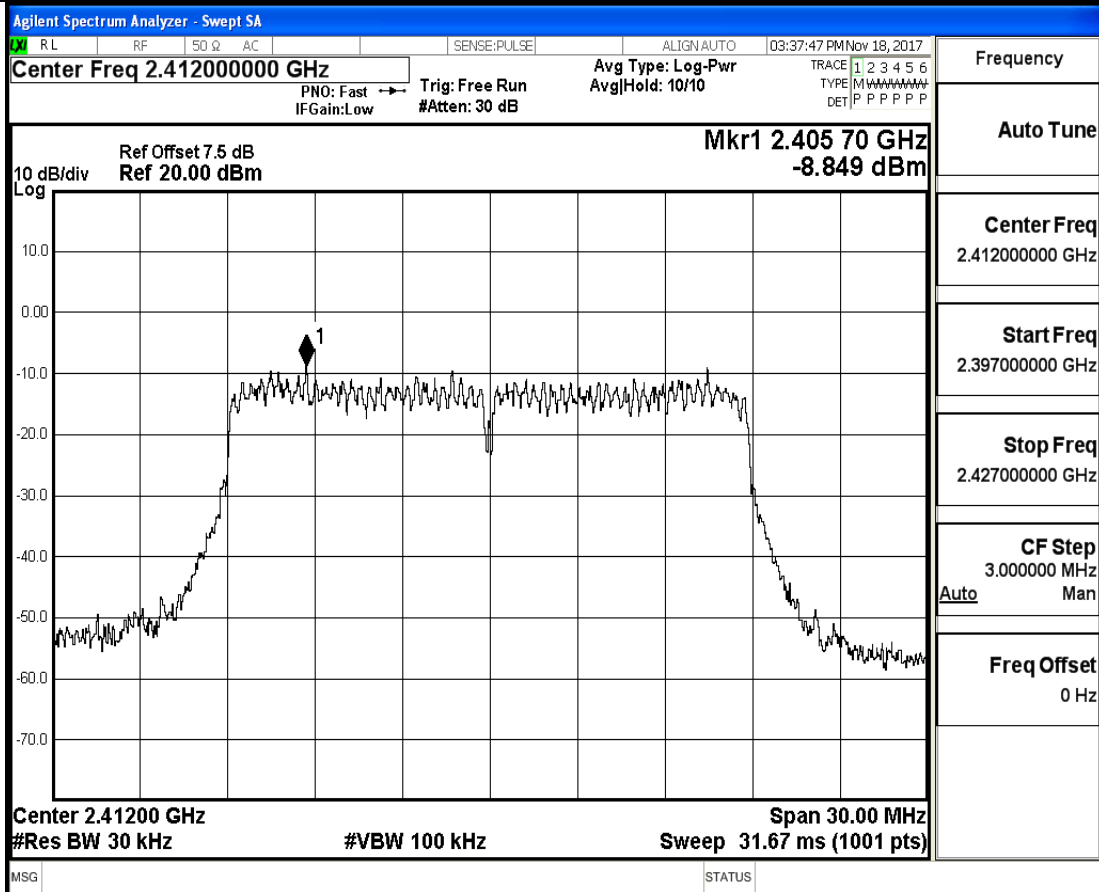
Maximum Peak power spectral density_11G_2437_Ant1



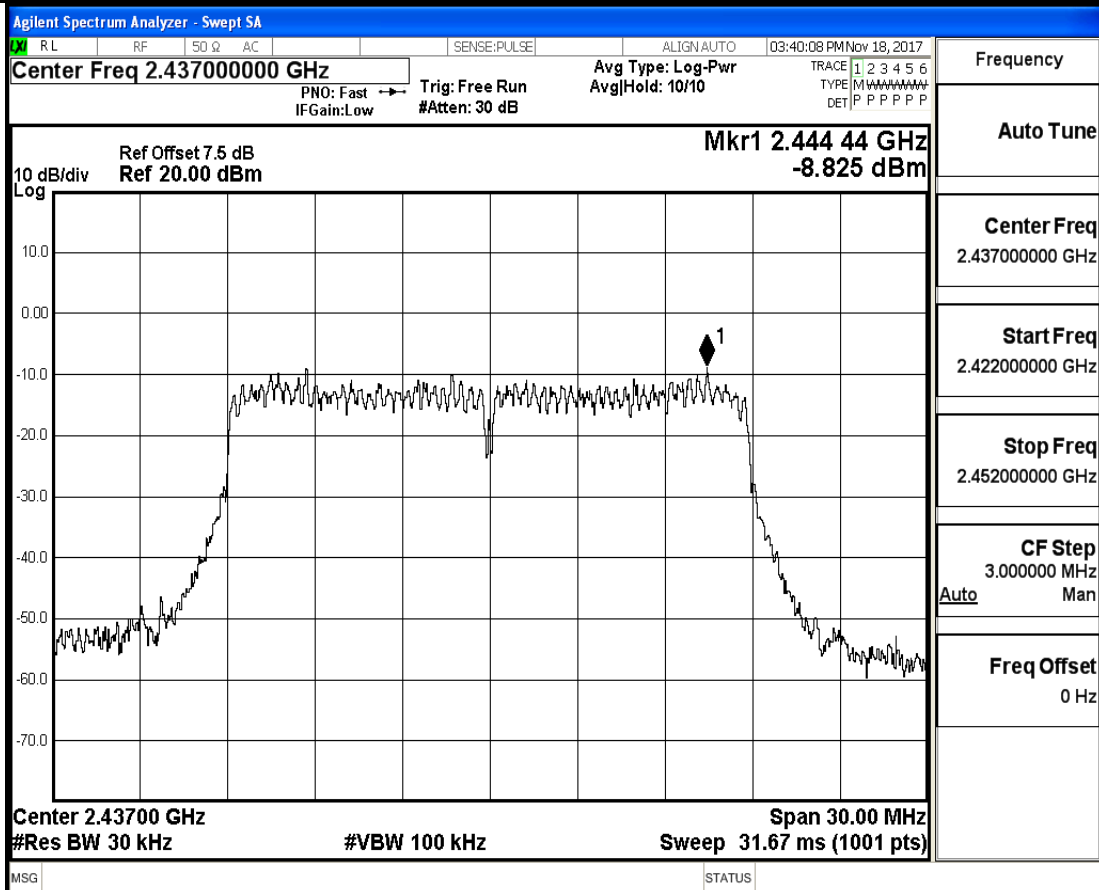
Maximum Peak power spectral density_11G_2462_Ant1



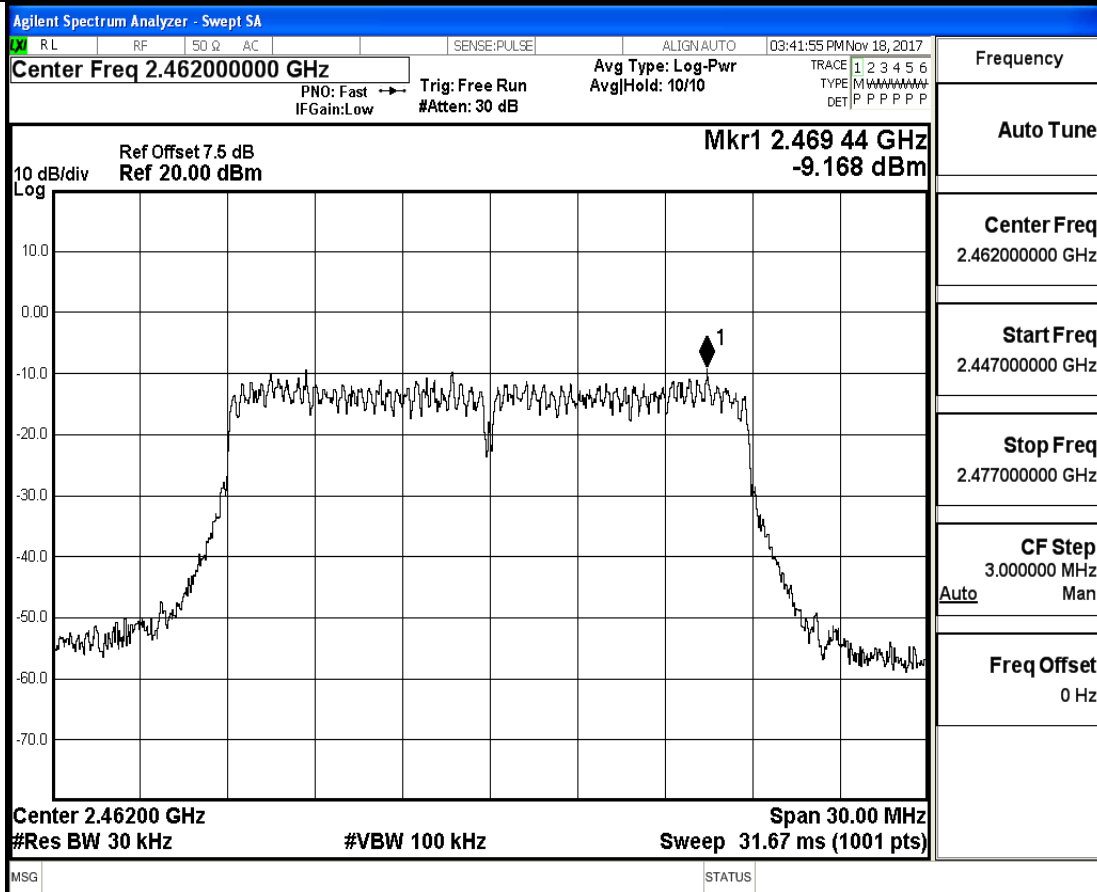
Maximum Peak power spectral density_11N20SISO_2412_Ant1



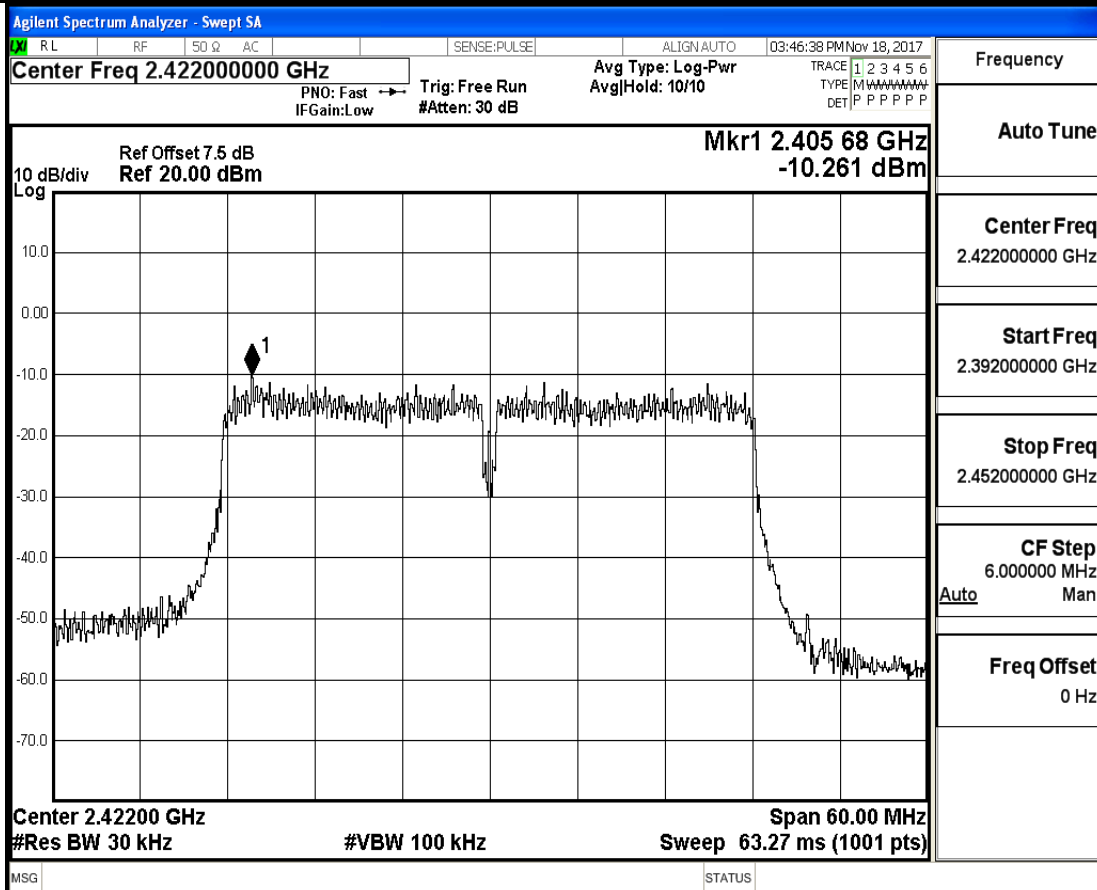
Maximum Peak power spectral density_11N20SISO_2437_Ant1



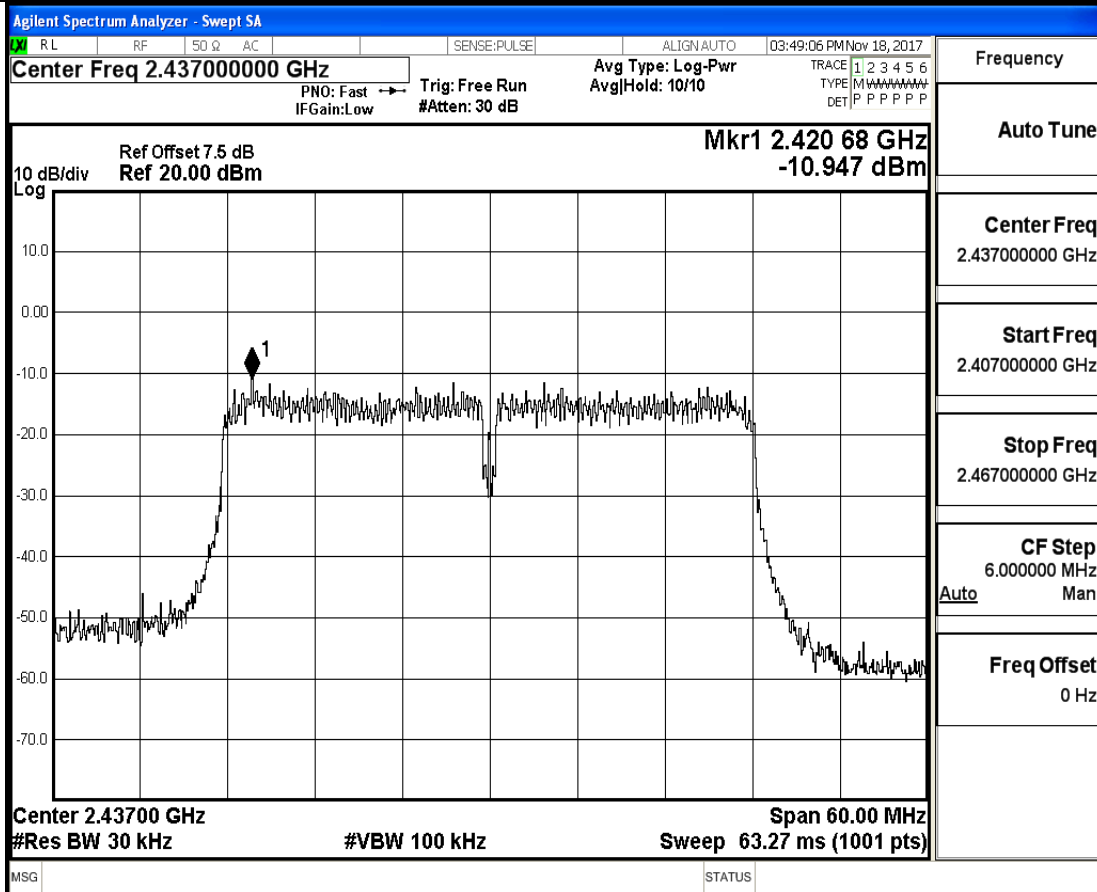
Maximum Peak power spectral density_11N20SISO_2462_Ant1



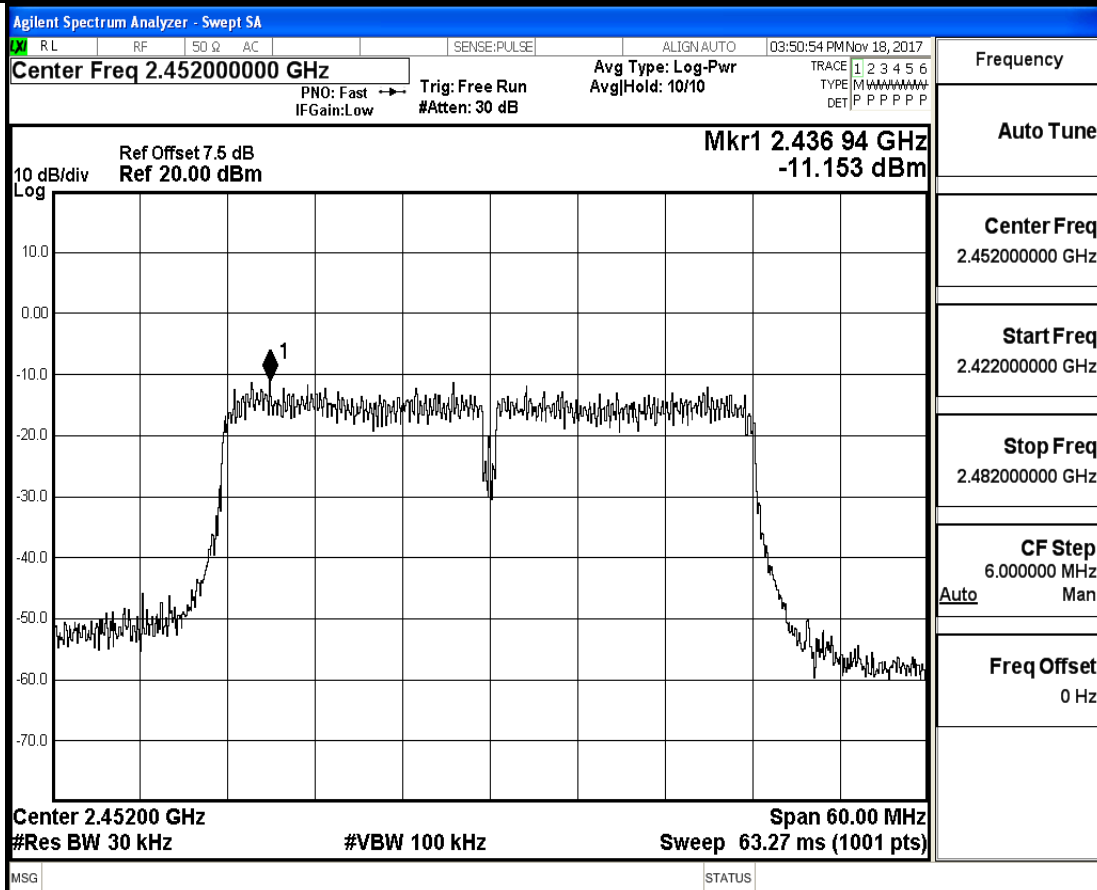
Maximum Peak power spectral density_11N40SISO_2422_Ant1



Maximum Peak power spectral density_11N40SISO_2437_Ant1



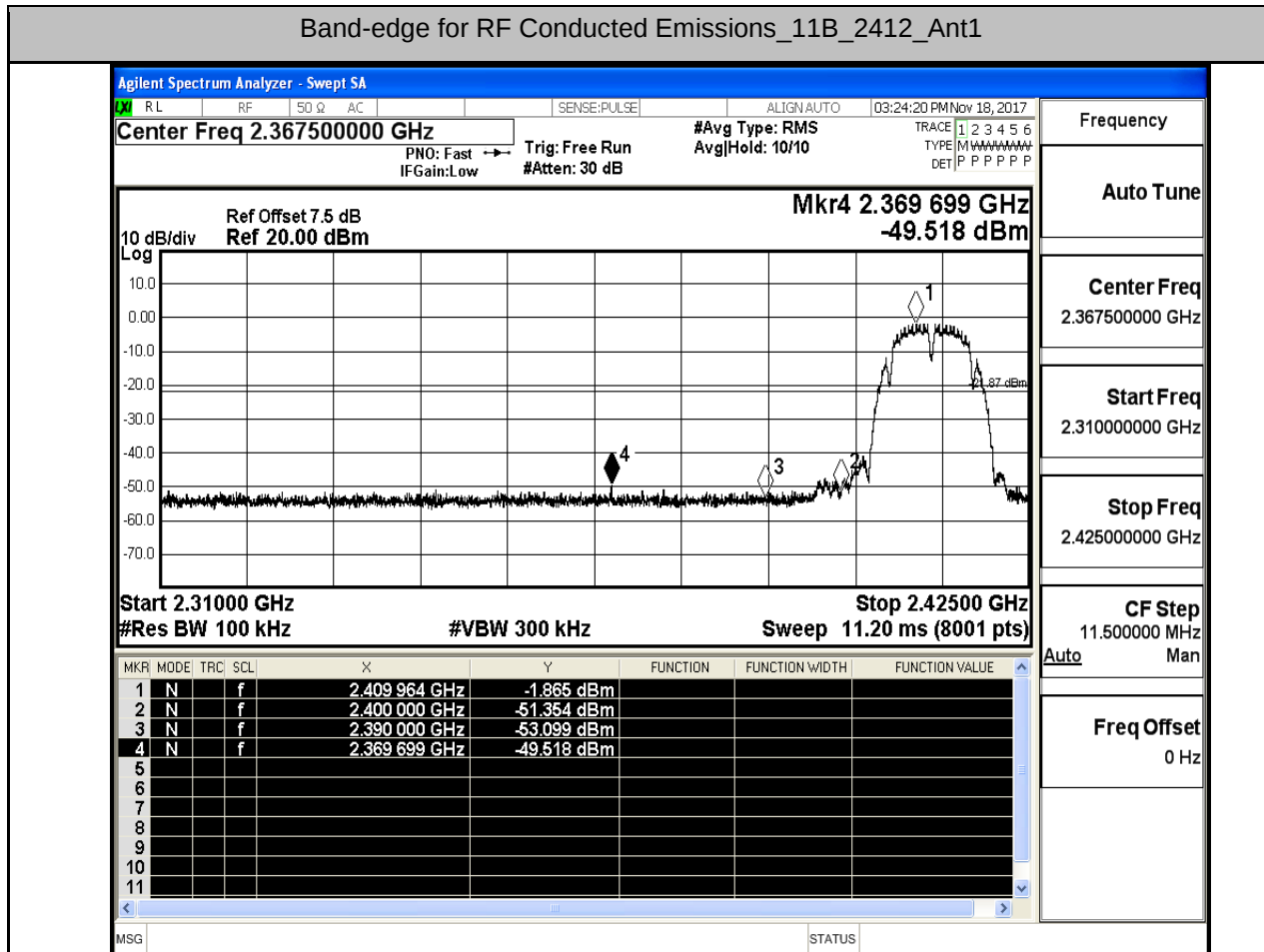
Maximum Peak power spectral density_11N40SISO_2452_Ant1



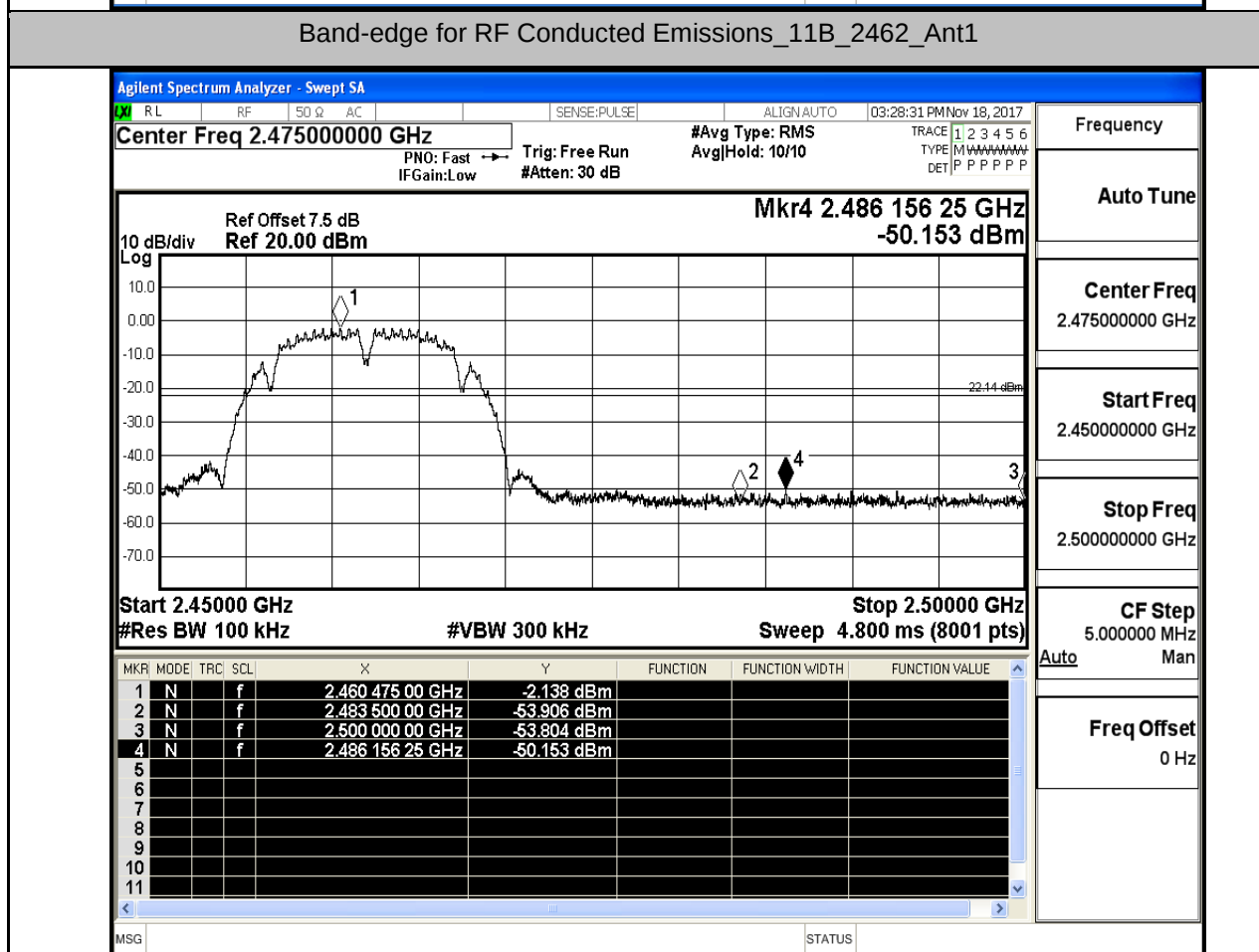
3.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	-1.865	-49.518	-21.87	PASS
11B	2462	Ant1	-2.138	-50.153	-22.14	PASS
11G	2412	Ant1	-3.061	-49.702	-23.06	PASS
11G	2462	Ant1	-2.581	-45.219	-22.58	PASS
11N20SISO	2412	Ant1	-3.921	-49.399	-23.92	PASS
11N20SISO	2462	Ant1	-4.018	-50.781	-24.02	PASS
11N40SISO	2422	Ant1	-5.160	-42.259	-25.16	PASS
11N40SISO	2452	Ant1	-5.417	-49.482	-25.42	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

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.36750000 GHz

Ref Offset 7.5 dB
Ref 20.00 dBm

Mkr 2.389 796 GHz
-49.702 dBm

Start 2.31000 GHz
#Res BW 100 kHz

Stop 2.42500 GHz
#VBW 300 kHz
Sweep 11.20 ms (8001 pts)

Frequency

Auto Tune

Center Freq
2.36750000 GHz

Start Freq
2.31000000 GHz

Stop Freq
2.42500000 GHz

CF Step
11.500000 MHz

Freq Offset
0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.405 738 GHz	-3.061 dBm			
2	N	f		2.400 000 GHz	-41.730 dBm			
3	N	f		2.390 000 GHz	-51.585 dBm			
4	N	f		2.389 796 GHz	-49.702 dBm			

Band-edge for RF Conducted Emissions_11G_2462_Ant1

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.47500000 GHz

Ref Offset 7.5 dB
Ref 20.00 dBm

Mkr 2.483 656 25 GHz
-45.219 dBm

Start 2.45000 GHz
#Res BW 100 kHz

Stop 2.50000 GHz
#VBW 300 kHz
Sweep 4.800 ms (8001 pts)

Frequency

Auto Tune

Center Freq
2.47500000 GHz

Start Freq
2.45000000 GHz

Stop Freq
2.50000000 GHz

CF Step
5.000000 MHz

Freq Offset
0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.469 481 25 GHz	-2.581 dBm			
2	N	f		2.483 500 00 GHz	-47.644 dBm			
3	N	f		2.500 000 00 GHz	-52.951 dBm			
4	N	f		2.483 656 25 GHz	-45.219 dBm			

Band-edge for RF Conducted Emissions_11N20SISO_2412_Ant1

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.367500000 GHz

Ref Offset 7.5 dB
Ref 20.00 dBm

Mkr 2.388 286 GHz
-49.399 dBm

Start 2.31000 GHz
#Res BW 100 kHz

Stop 2.42500 GHz
#VBW 300 kHz
Sweep 11.20 ms (8001 pts)

Frequency

Auto Tune

Center Freq
2.367500000 GHz

Start Freq
2.310000000 GHz

Stop Freq
2.425000000 GHz

CF Step
11.500000 MHz

Freq Offset
0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.404 458 GHz	-3.921 dBm			
2	N	f		2.400 000 GHz	-45.197 dBm			
3	N	f		2.390 000 GHz	-53.106 dBm			
4	N	f		2.388 286 GHz	-49.399 dBm			

Band-edge for RF Conducted Emissions_11N20SISO_2462_Ant1

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.475000000 GHz

Ref Offset 7.5 dB
Ref 20.00 dBm

Mkr 2.491 300 00 GHz
-50.781 dBm

Start 2.45000 GHz
#Res BW 100 kHz

Stop 2.50000 GHz
#VBW 300 kHz
Sweep 4.800 ms (8001 pts)

Frequency

Auto Tune

Center Freq
2.475000000 GHz

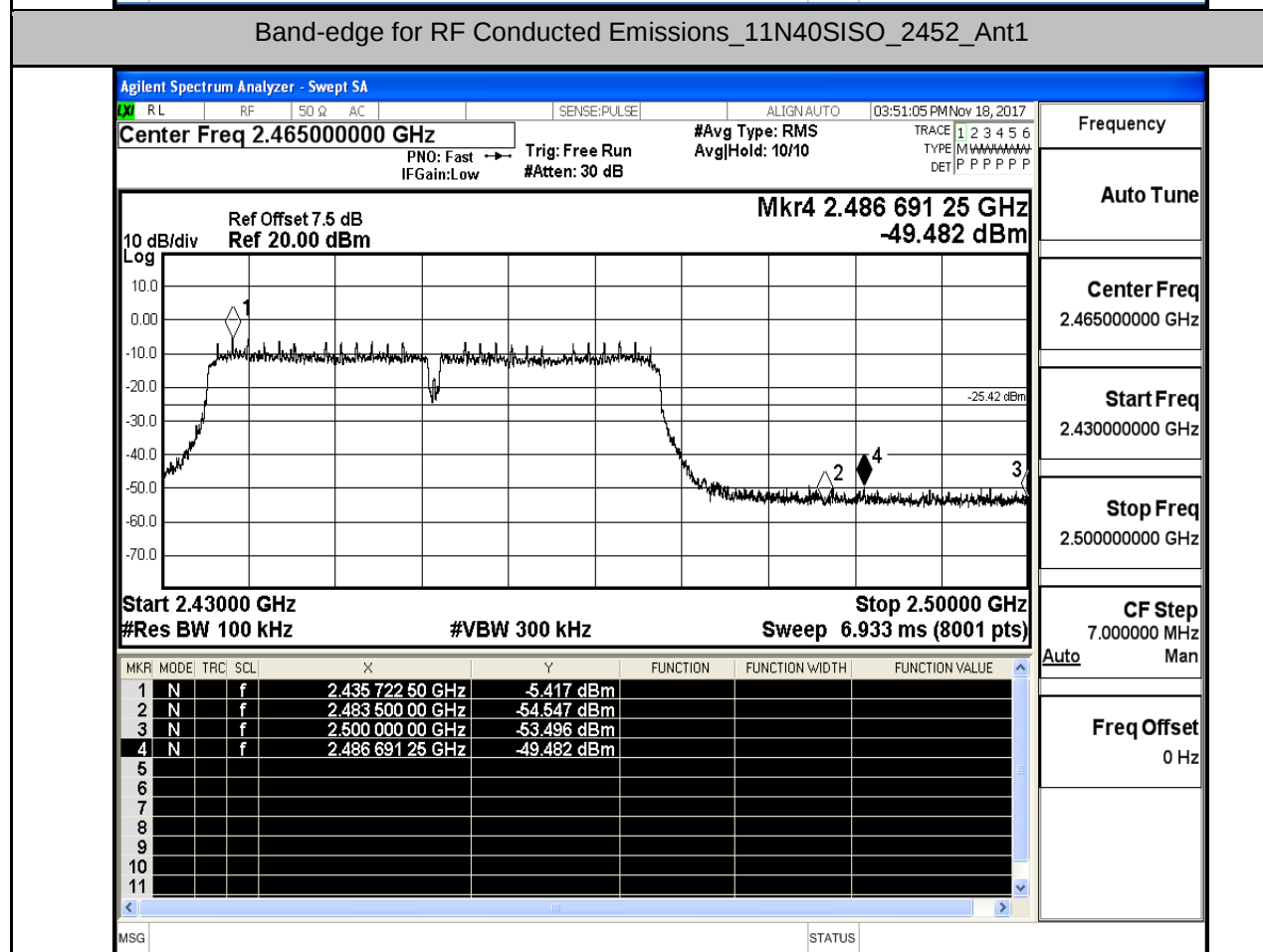
Start Freq
2.450000000 GHz

Stop Freq
2.500000000 GHz

CF Step
5.000000 MHz

Freq Offset
0 Hz

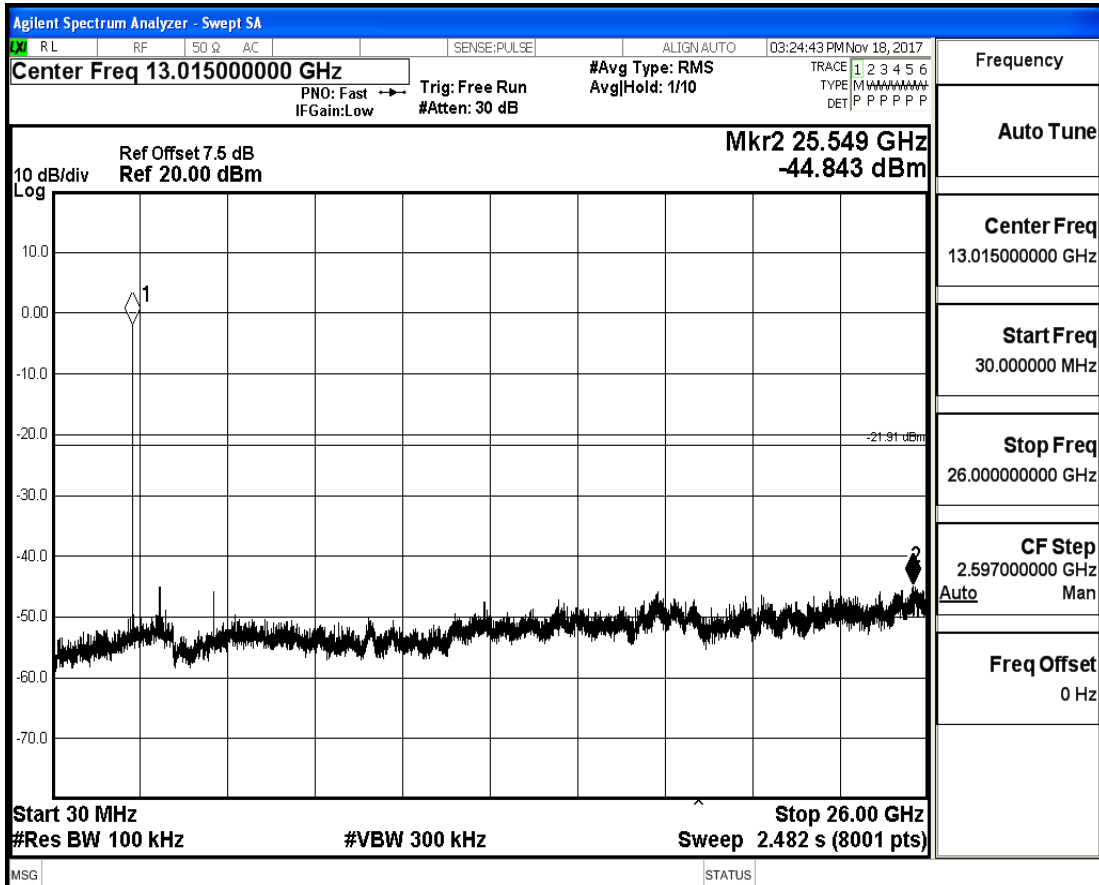
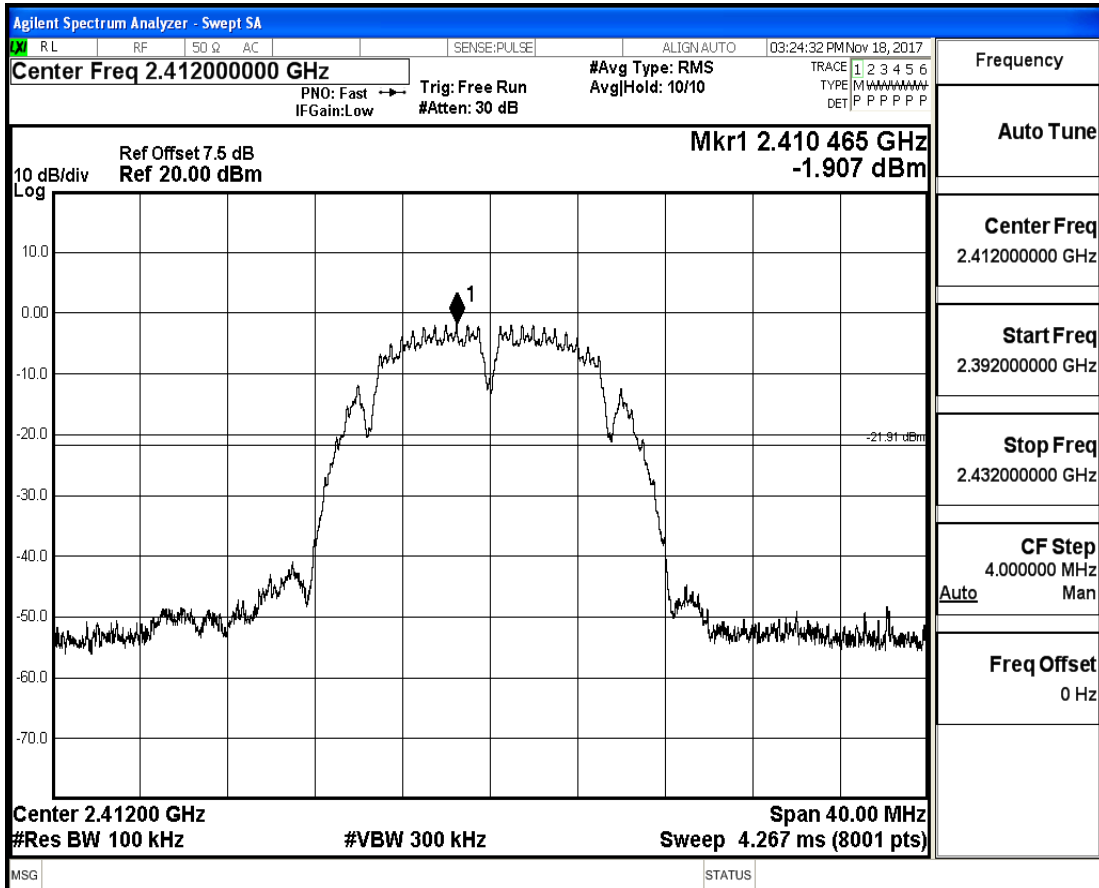
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.454 475 00 GHz	-4.018 dBm			
2	N	f		2.483 500 00 GHz	-53.732 dBm			
3	N	f		2.500 000 00 GHz	-53.481 dBm			
4	N	f		2.491 300 00 GHz	-50.781 dBm			



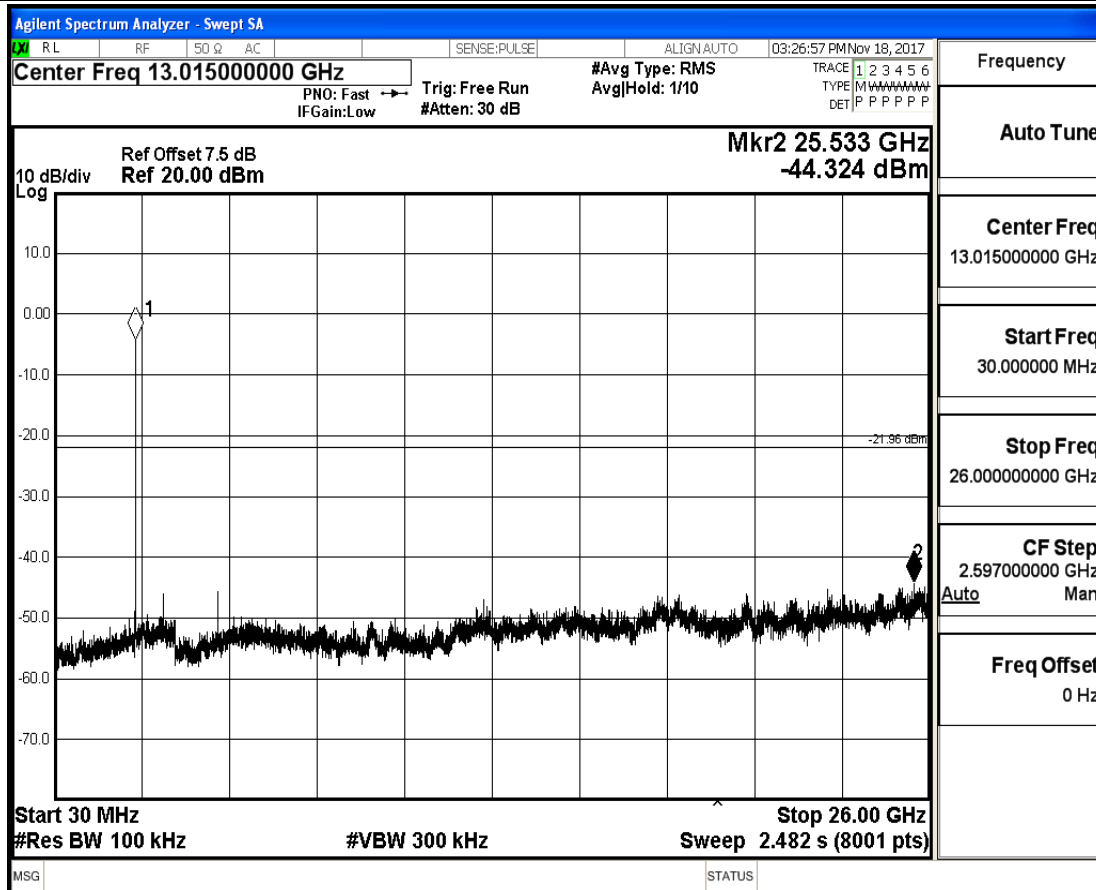
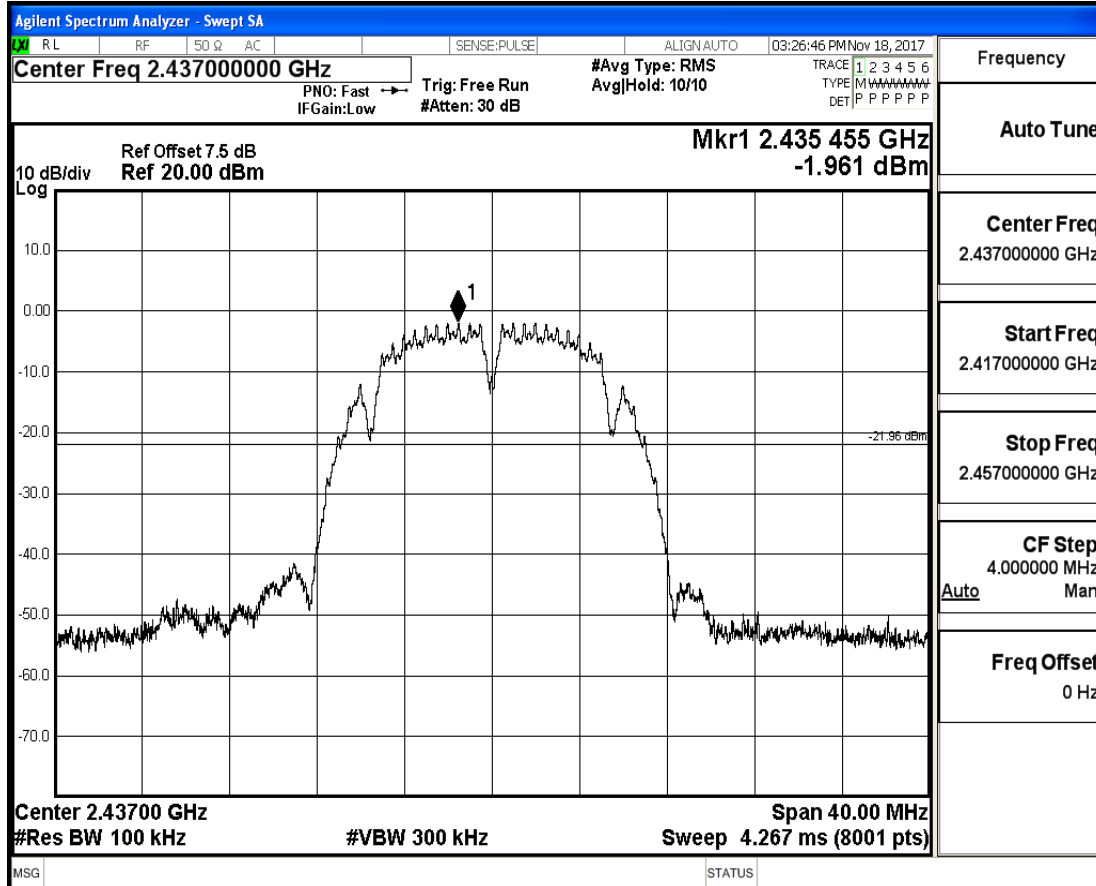
4.RF Conducted Spurious Emissions

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	-1.907	-44.843	<-21.907	PASS
11B	2437	Ant1	30	26000	100	300	-1.961	-44.324	<-21.961	PASS
11B	2462	Ant1	30	26000	100	300	-2.159	-42.048	<-22.159	PASS
11G	2412	Ant1	30	26000	100	300	-2.283	-44.622	<-22.283	PASS
11G	2437	Ant1	30	26000	100	300	-2.118	-44.363	<-22.118	PASS
11G	2462	Ant1	30	26000	100	300	-2.902	-44.850	<-22.902	PASS
11N20SISO	2412	Ant1	30	26000	100	300	-3.614	-41.581	<-23.614	PASS
11N20SISO	2437	Ant1	30	26000	100	300	-4.120	-43.864	<-24.120	PASS
11N20SISO	2462	Ant1	30	26000	100	300	-3.969	-44.457	<-23.969	PASS
11N40SISO	2422	Ant1	30	26000	100	300	-5.230	-44.363	<-25.230	PASS
11N40SISO	2437	Ant1	30	26000	100	300	-6.041	-44.077	<-26.041	PASS
11N40SISO	2452	Ant1	30	26000	100	300	-5.443	-43.940	<-25.443	PASS

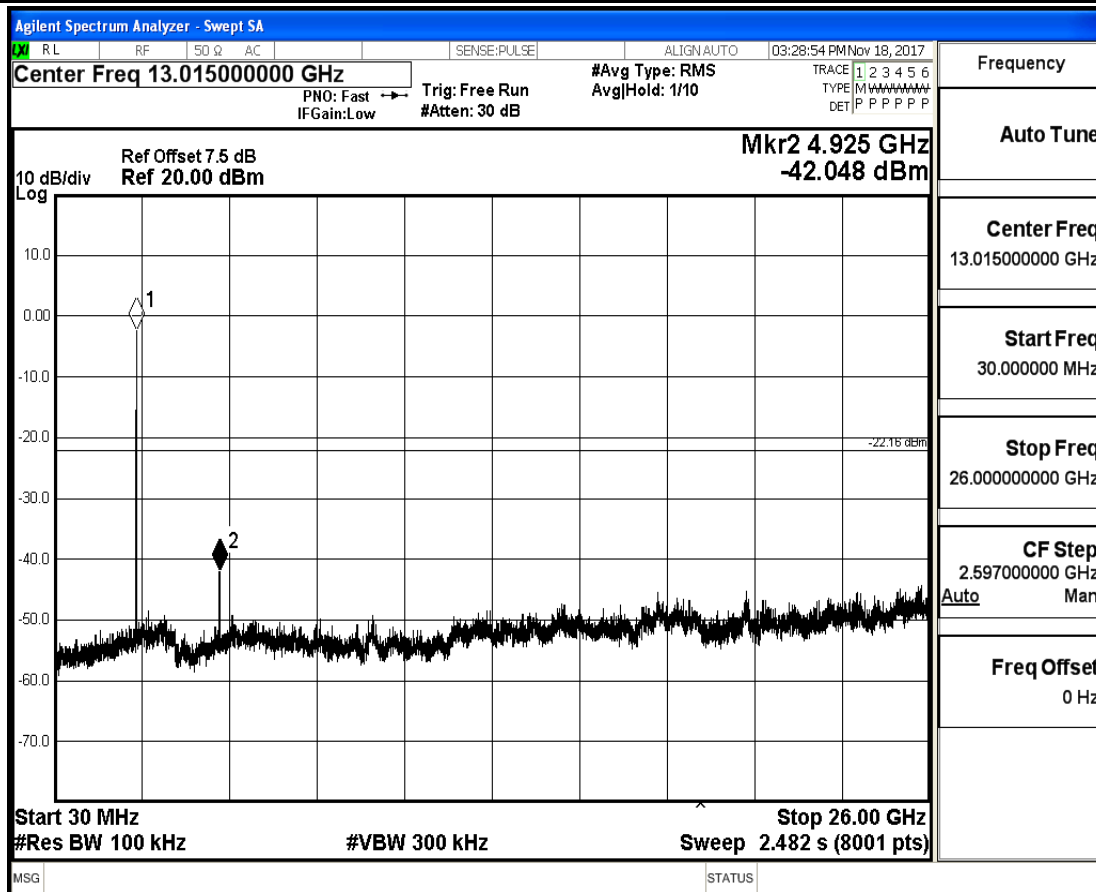
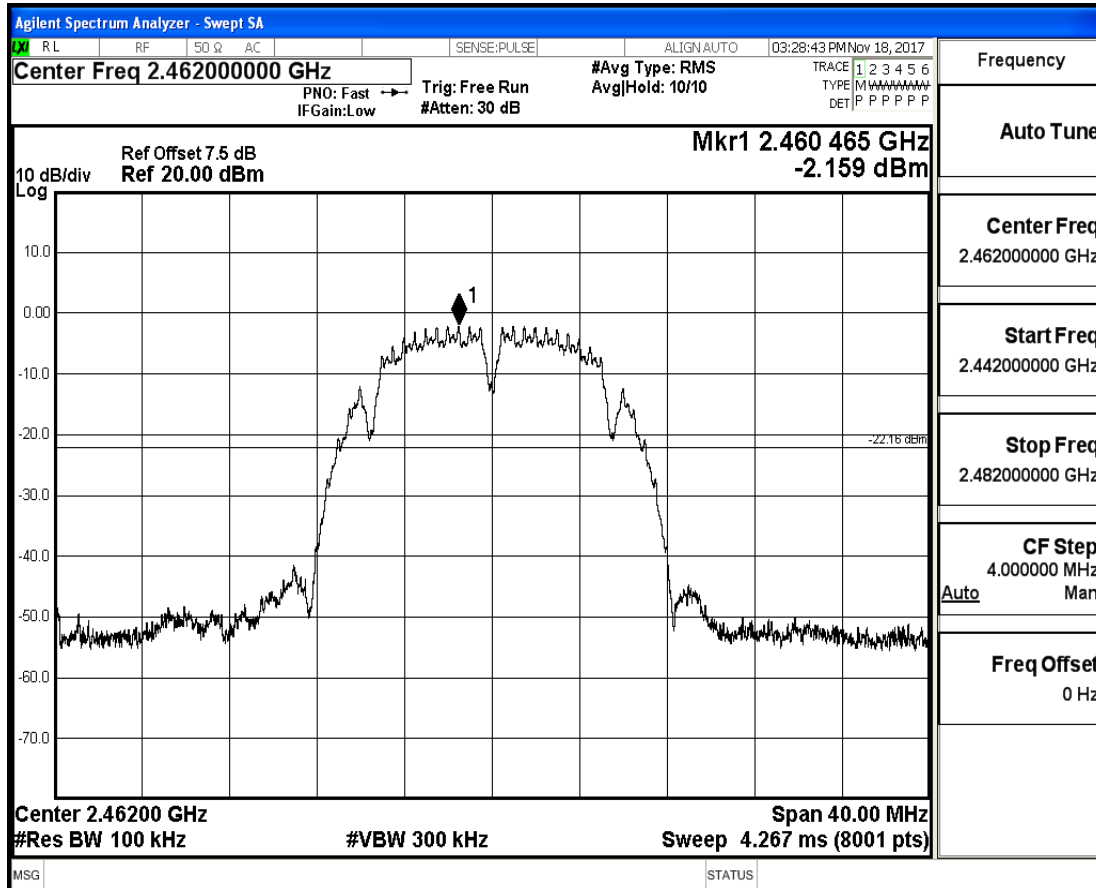
RF Conducted Spurious Emissions_11B_2412_Ant1



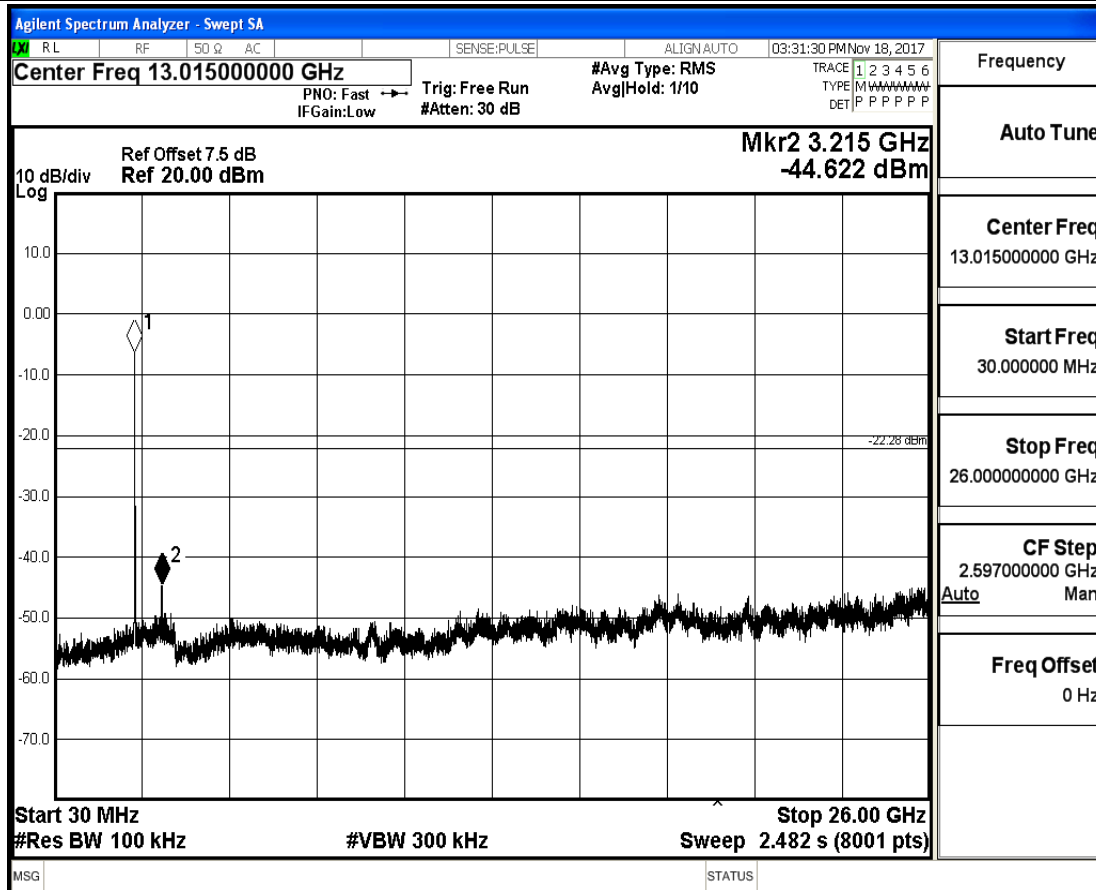
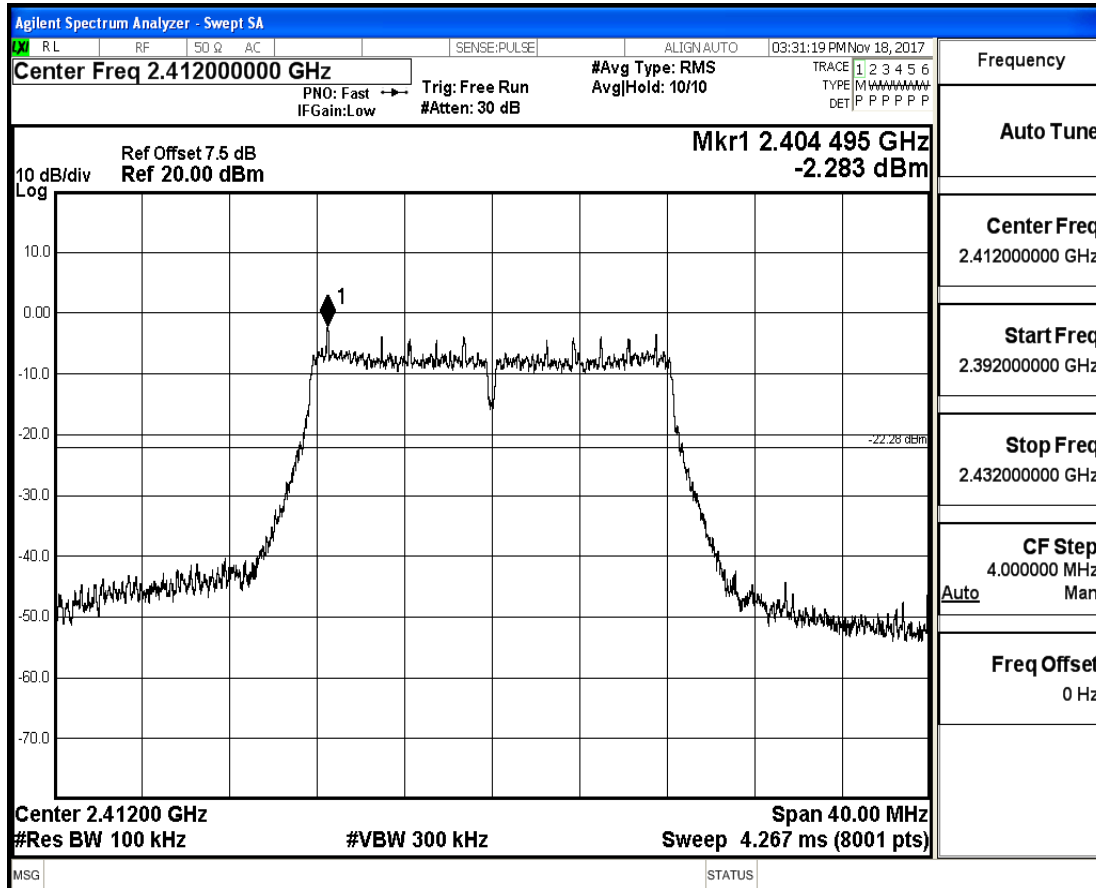
RF Conducted Spurious Emissions_11B_2437_Ant1

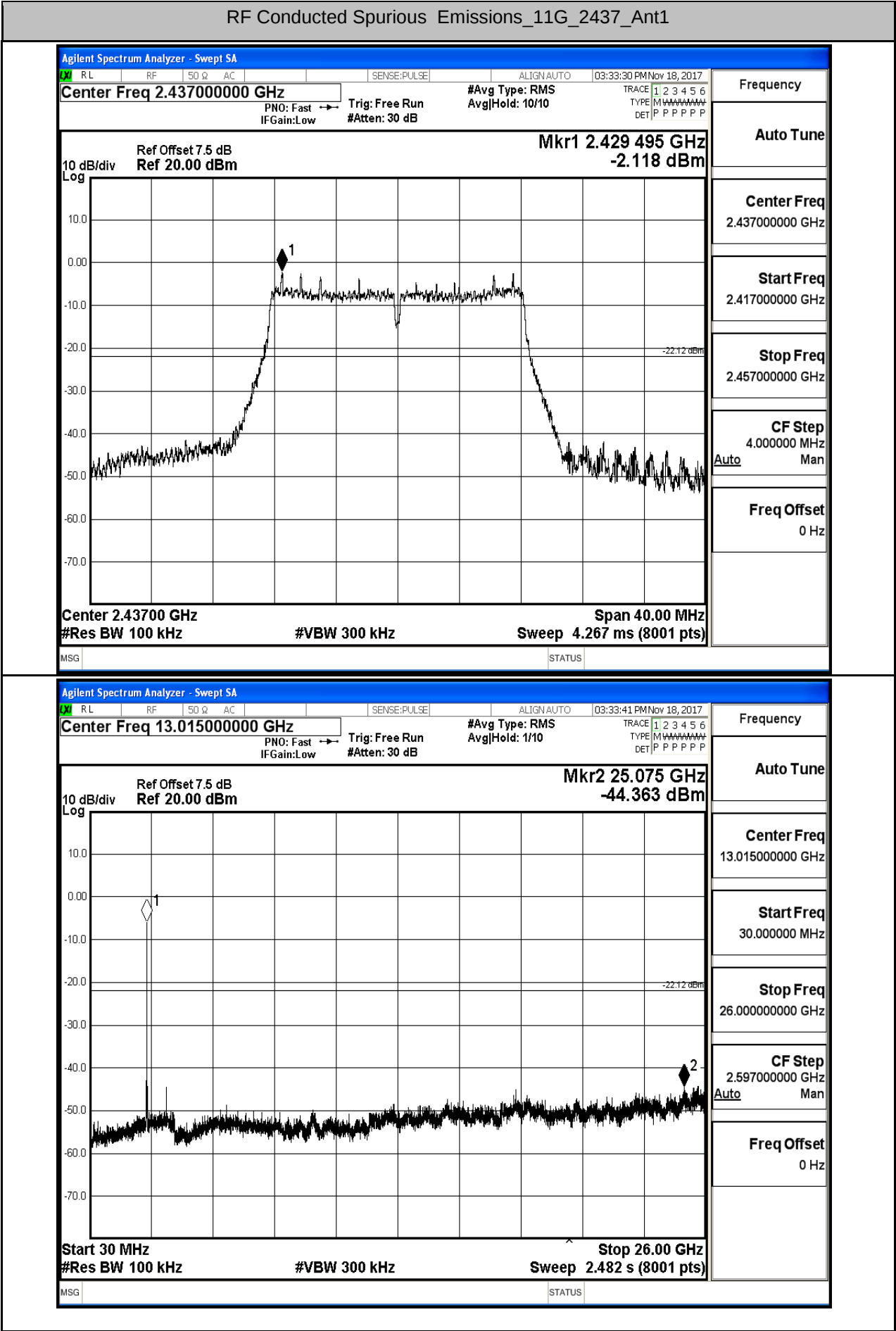


RF Conducted Spurious Emissions_11B_2462_Ant1

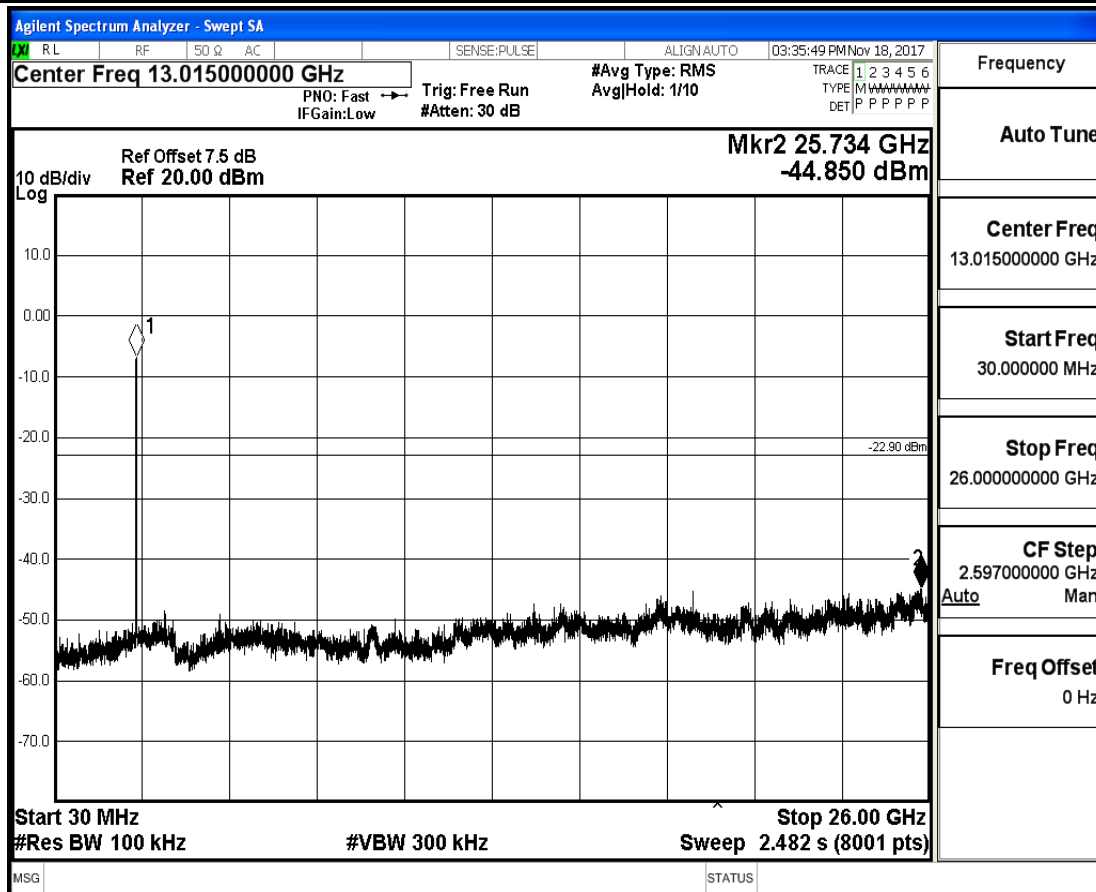
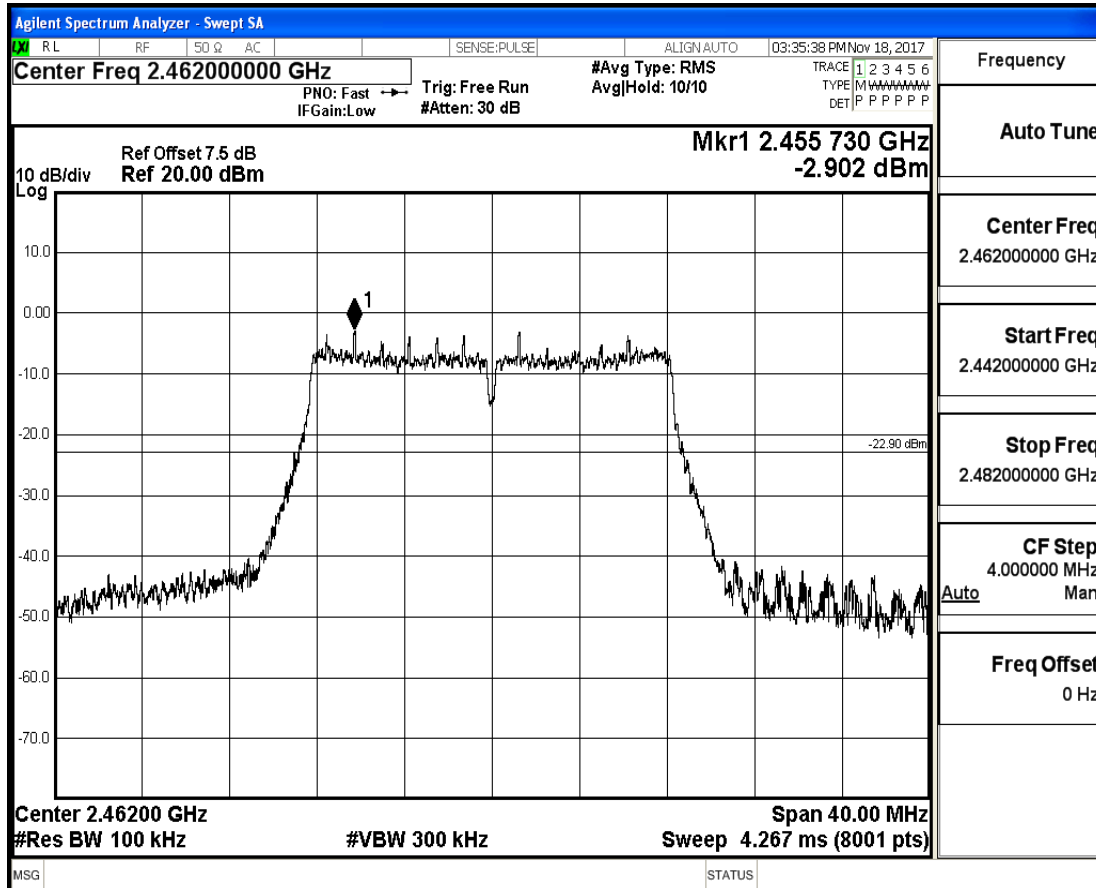


RF Conducted Spurious Emissions_11G_2412_Ant1

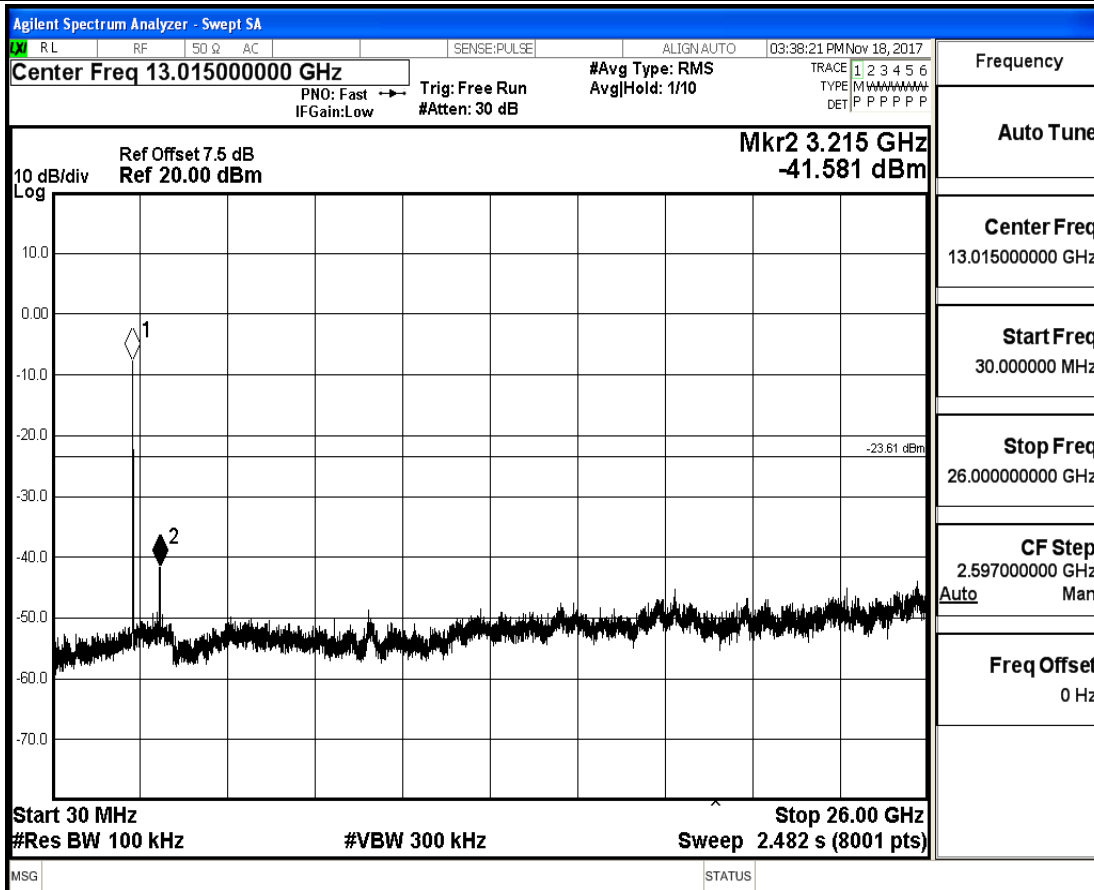
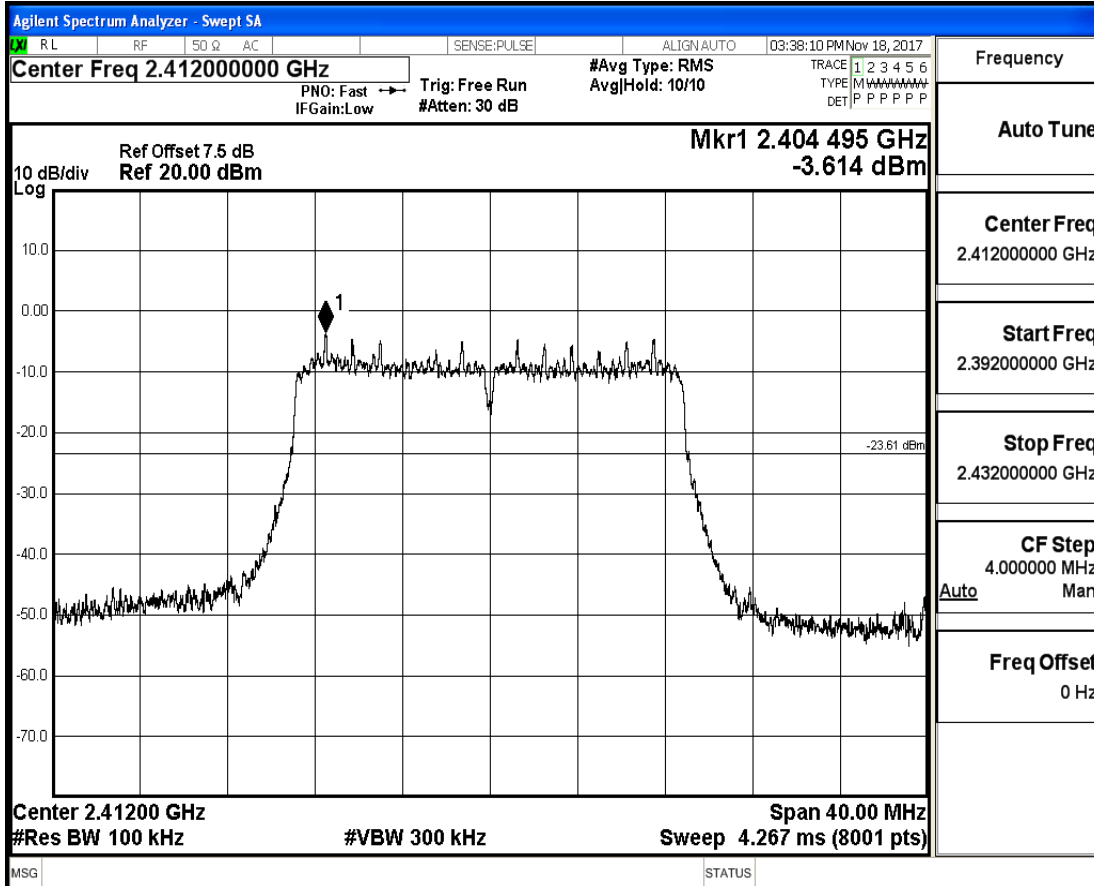




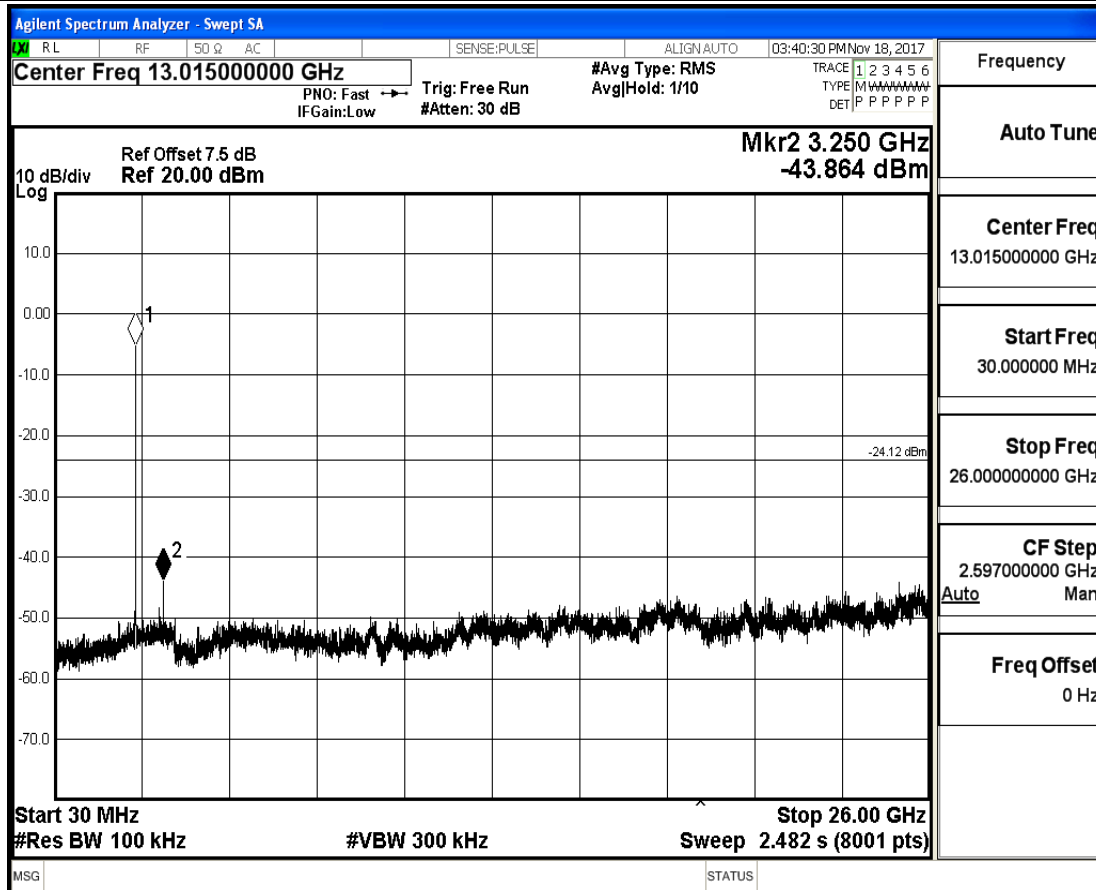
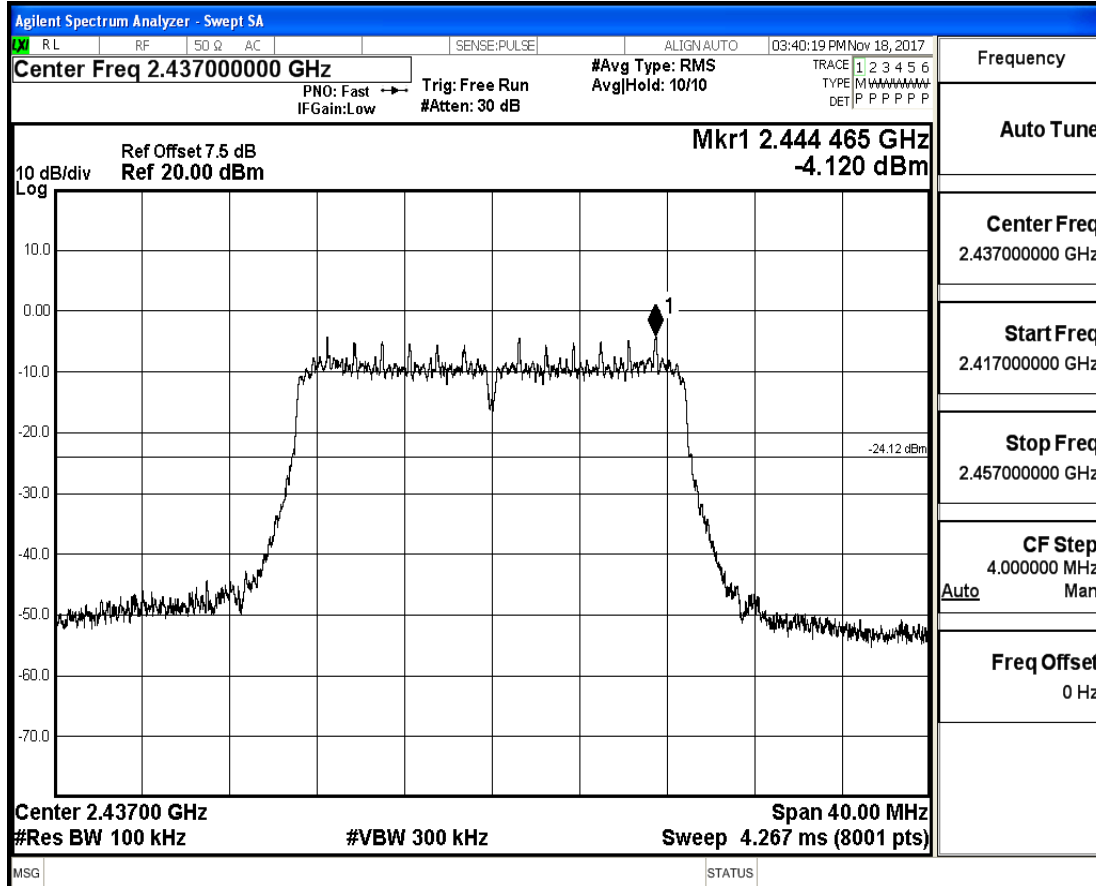
RF Conducted Spurious Emissions_11G_2462_Ant1



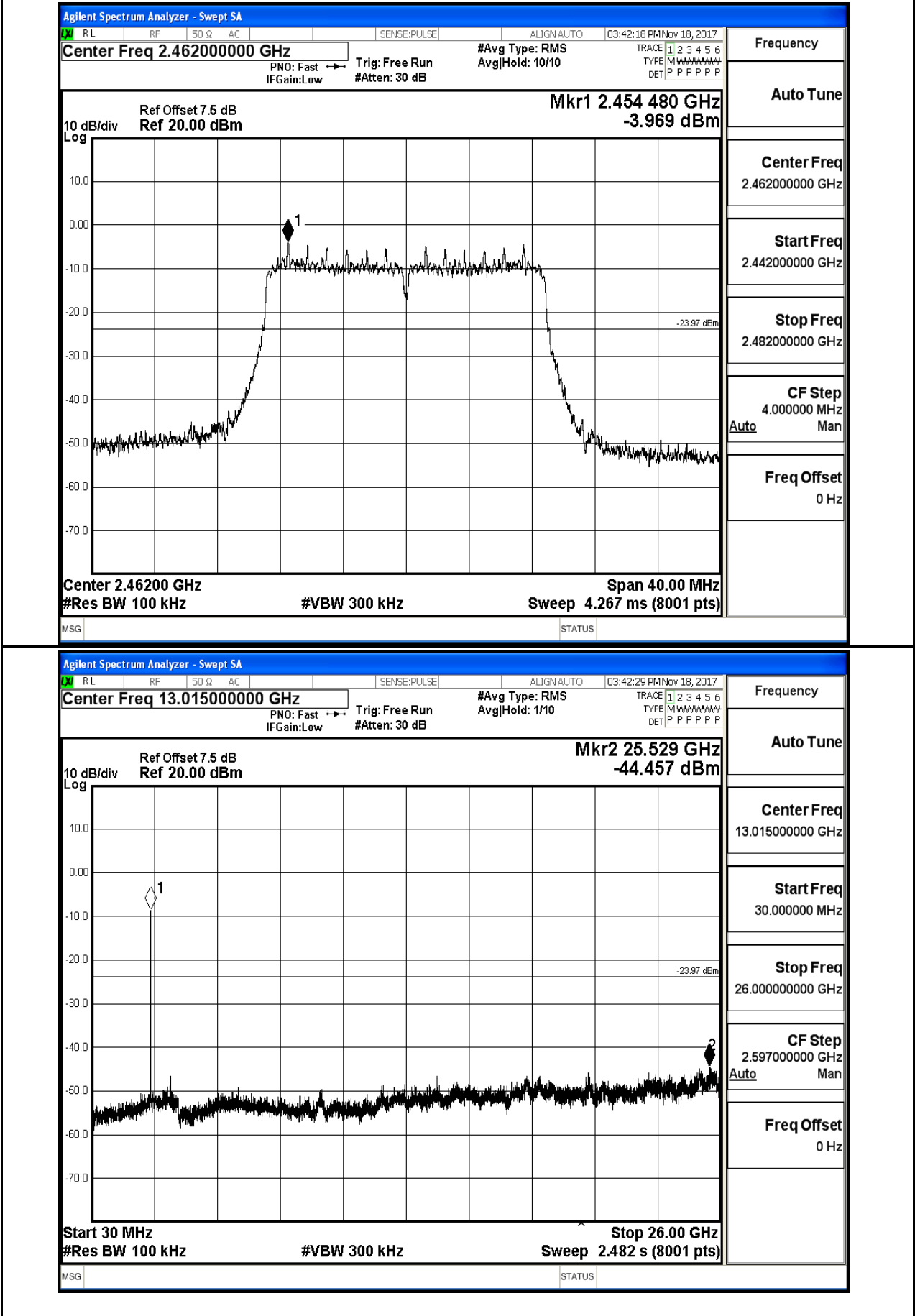
RF Conducted Spurious Emissions_11N20SISO_2412_Ant1



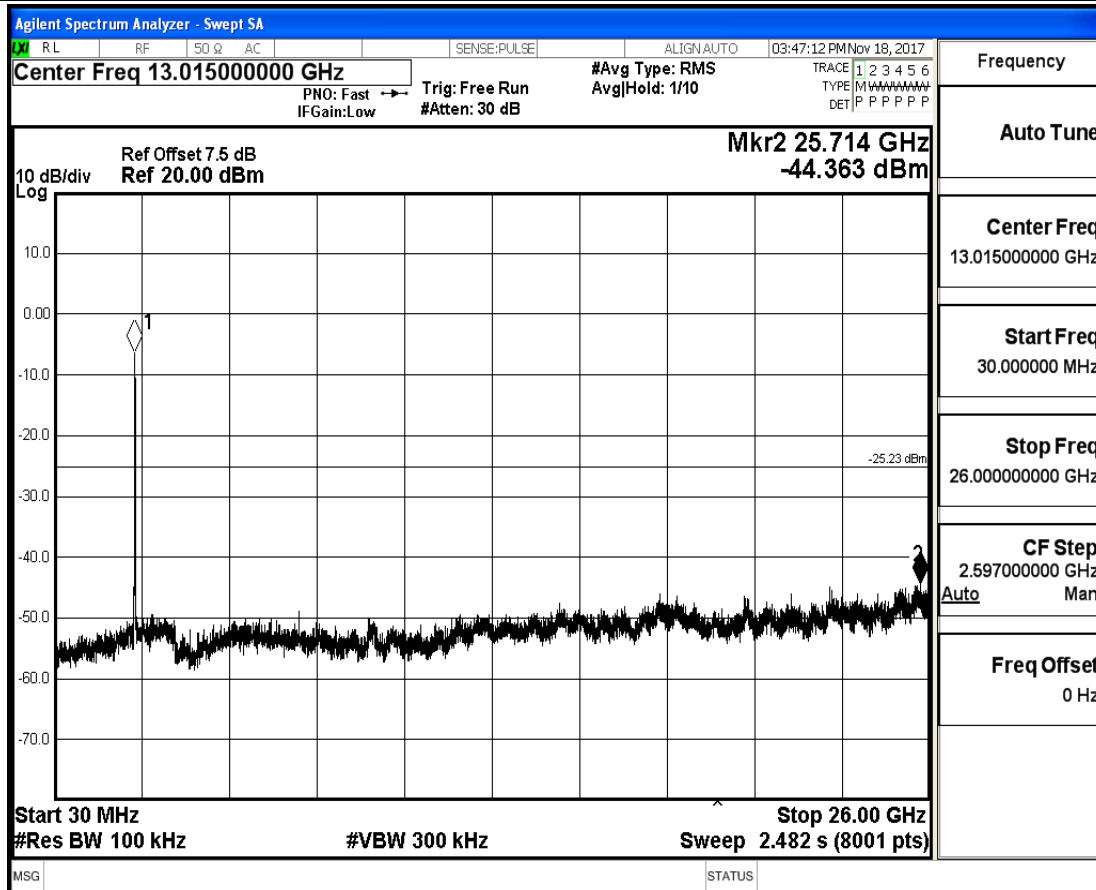
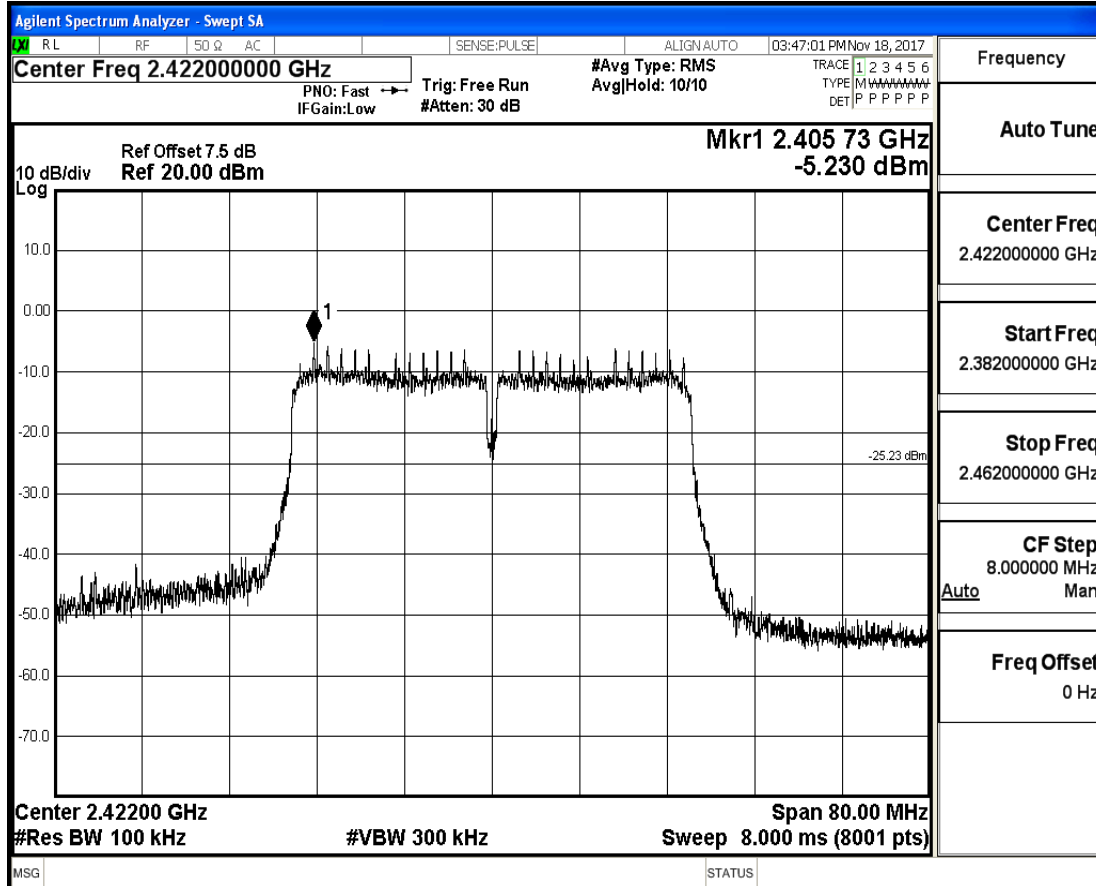
RF Conducted Spurious Emissions_11N20SISO_2437_Ant1



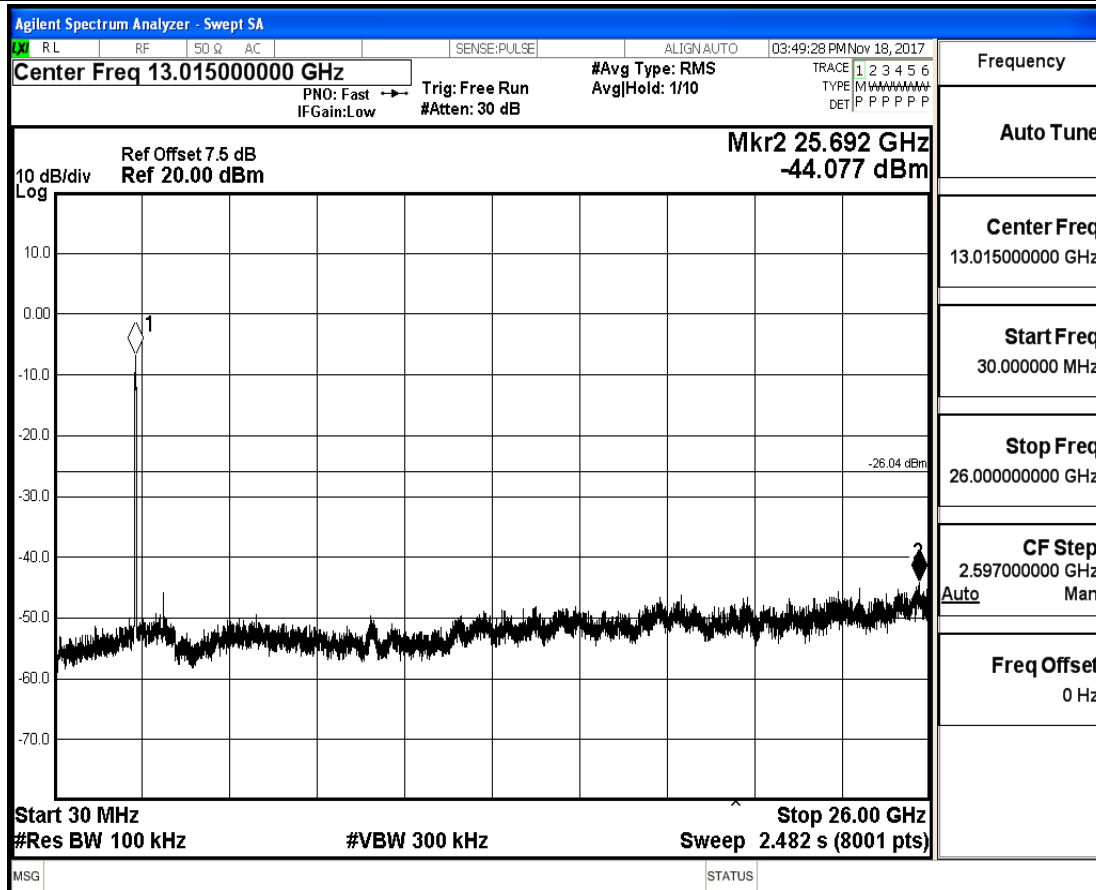
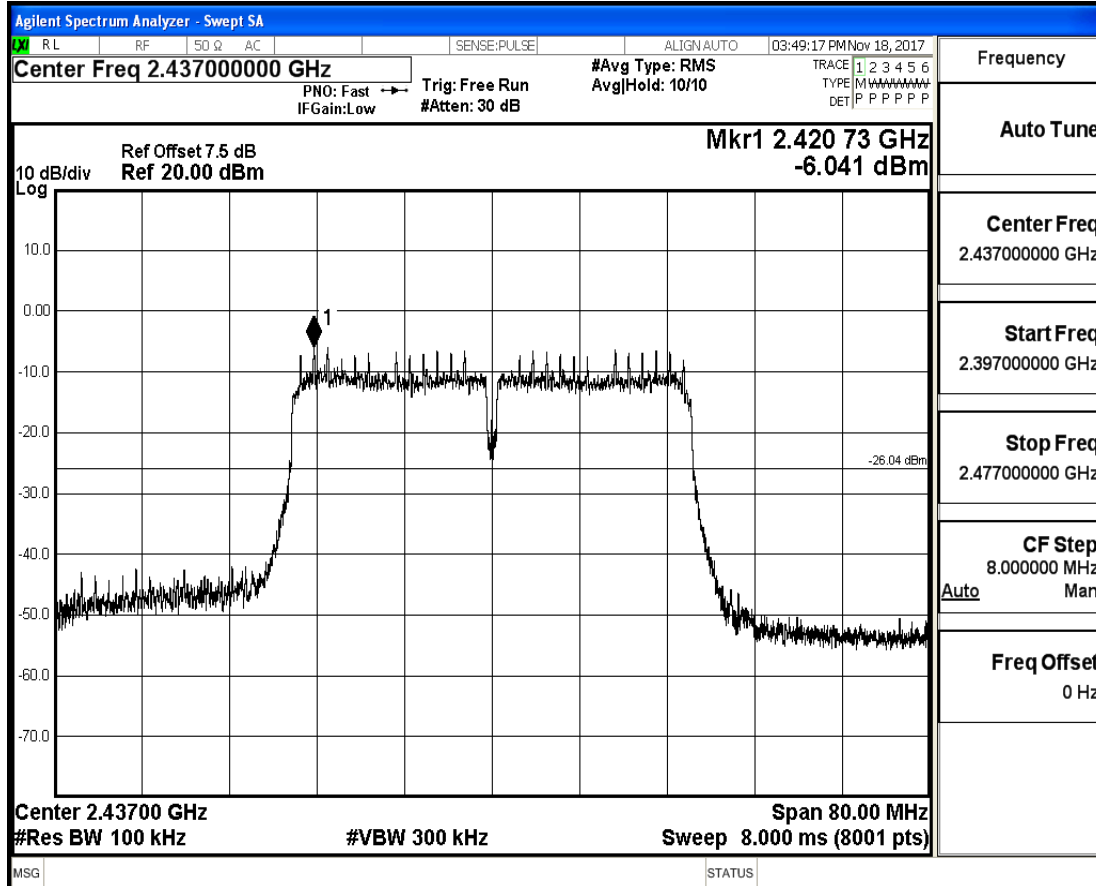
RF Conducted Spurious Emissions_11N20SISO_2462_Ant1



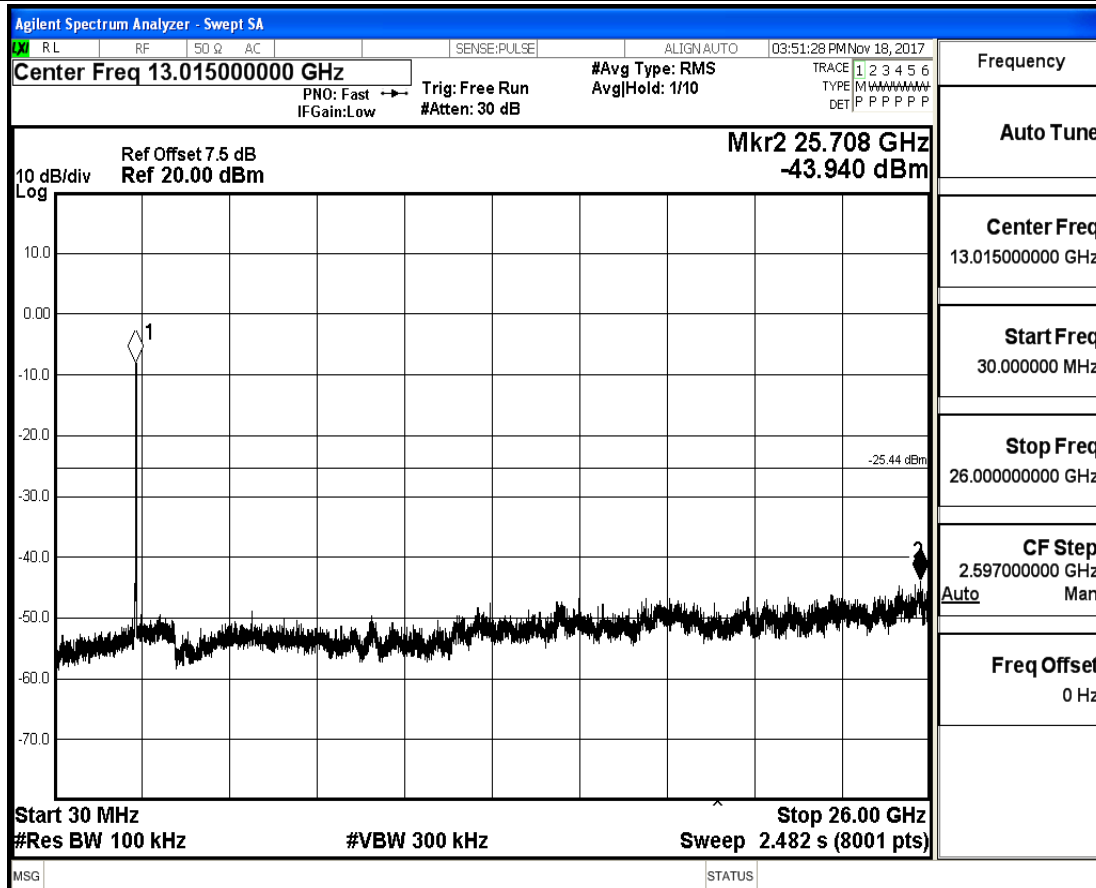
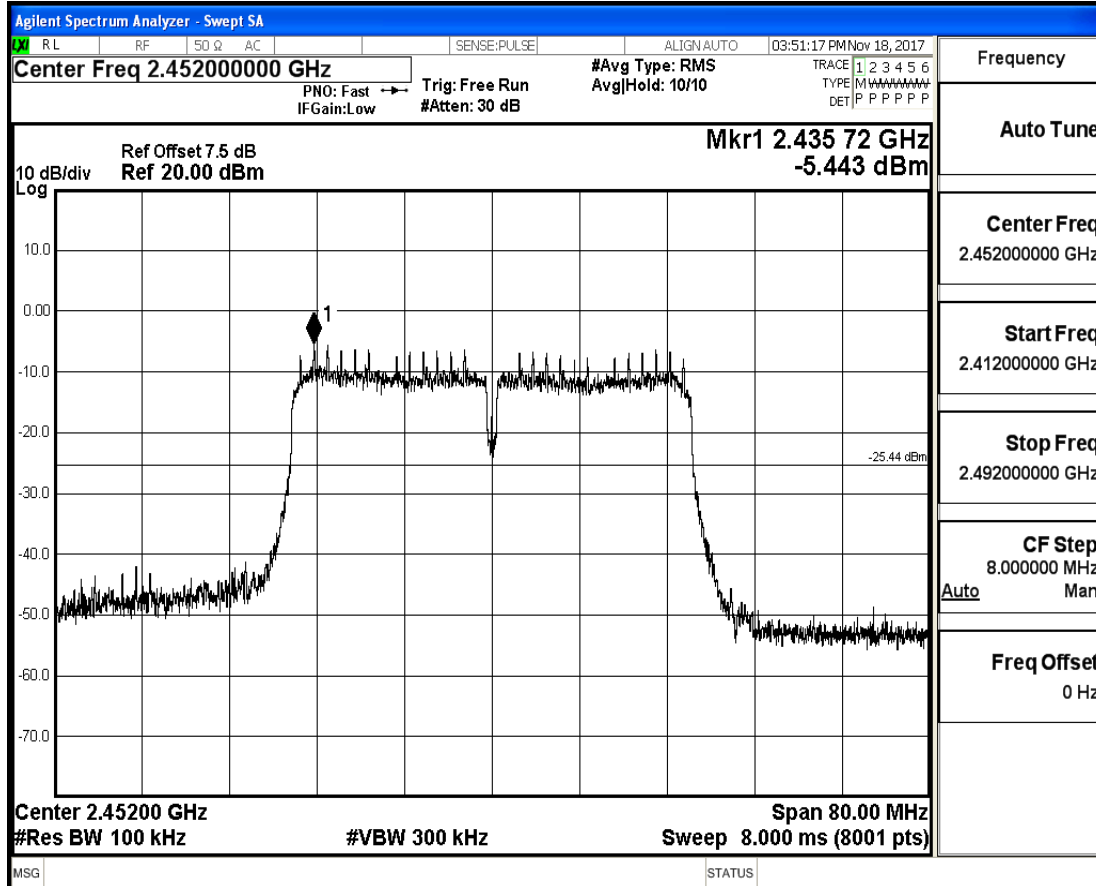
RF Conducted Spurious Emissions_11N40SISO_2422_Ant1



RF Conducted Spurious Emissions_11N40SISO_2437_Ant1



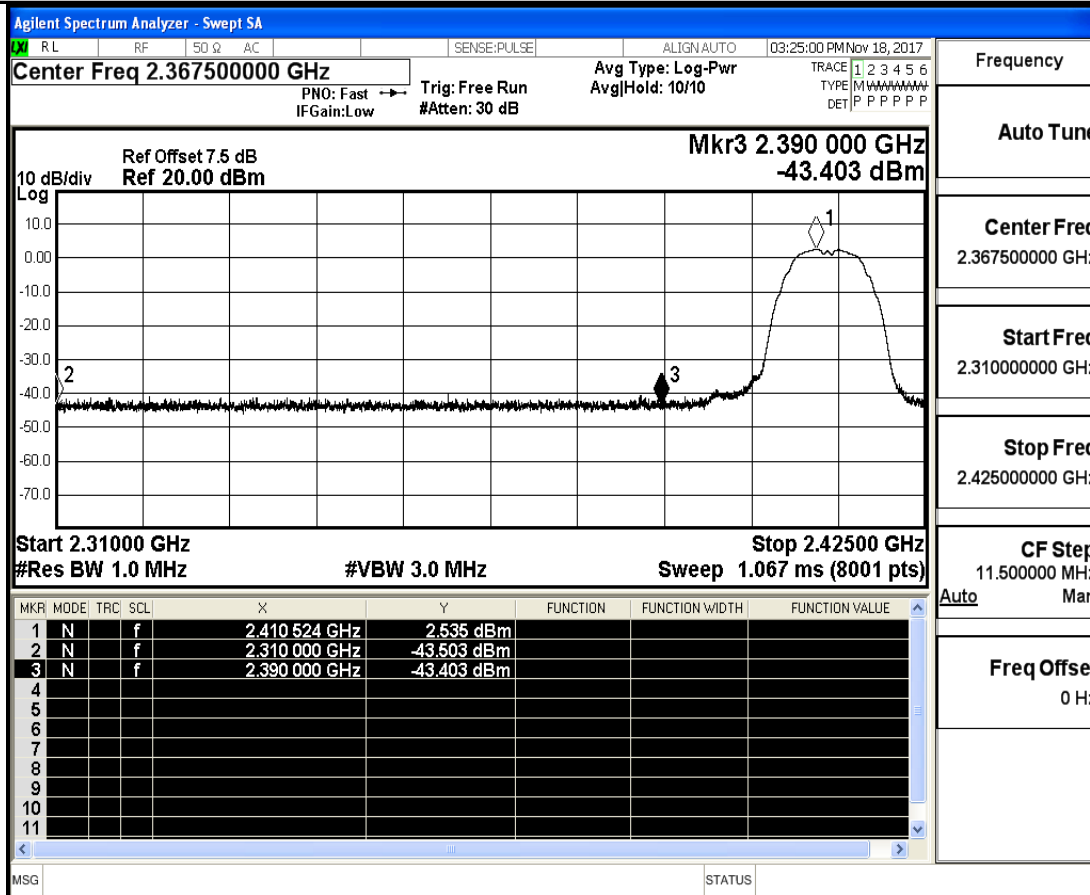
RF Conducted Spurious Emissions_11N40SISO_2452_Ant1



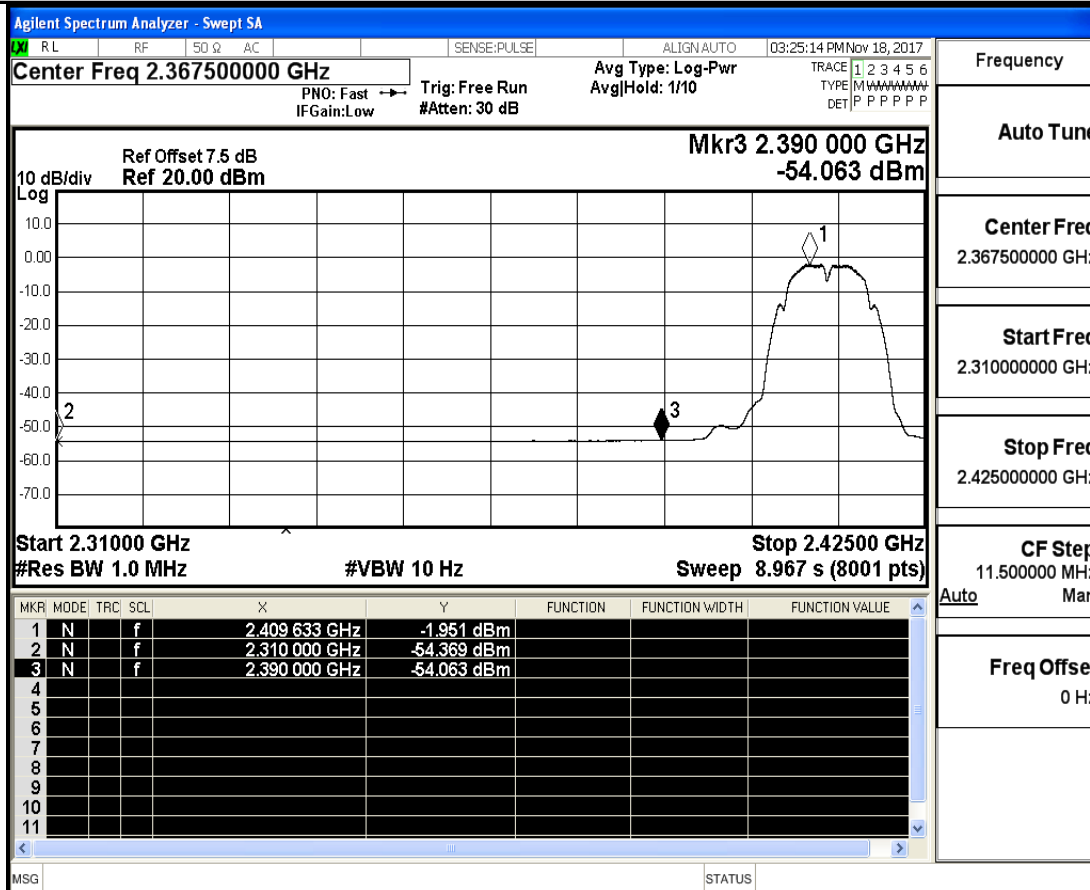
5.Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-43.50	2.0	0	53.73	PEAK	74	PASS
11B	2412	Ant1	2310.0	-54.37	2.0	0	42.86	AV	54	PASS
11B	2412	Ant1	2390.0	-43.40	2.0	0	53.83	PEAK	74	PASS
11B	2412	Ant1	2390.0	-54.06	2.0	0	43.17	AV	54	PASS
11B	2462	Ant1	2483.5	-42.21	2.0	0	55.02	PEAK	74	PASS
11B	2462	Ant1	2483.5	-53.91	2.0	0	43.32	AV	54	PASS
11B	2462	Ant1	2500.0	-42.74	2.0	0	54.49	PEAK	74	PASS
11B	2462	Ant1	2500.0	-53.83	2.0	0	43.40	AV	54	PASS
11G	2412	Ant1	2310.0	-43.17	2.0	0	54.06	PEAK	74	PASS
11G	2412	Ant1	2310.0	-54.27	2.0	0	42.96	AV	54	PASS
11G	2412	Ant1	2390.0	-40.18	2.0	0	57.05	PEAK	74	PASS
11G	2412	Ant1	2390.0	-52.07	2.0	0	45.16	AV	54	PASS
11G	2462	Ant1	2483.5	-33.58	2.0	0	63.65	PEAK	74	PASS
11G	2462	Ant1	2483.5	-53.03	2.0	0	44.20	AV	54	PASS
11G	2462	Ant1	2500.0	-41.44	2.0	0	55.79	PEAK	74	PASS
11G	2462	Ant1	2500.0	-53.81	2.0	0	43.42	AV	54	PASS
11N20SISO	2412	Ant1	2310.0	-43.05	2.0	0	54.18	PEAK	74	PASS
11N20SISO	2412	Ant1	2310.0	-54.30	2.0	0	42.93	AV	54	PASS
11N20SISO	2412	Ant1	2390.0	-37.74	2.0	0	59.49	PEAK	74	PASS
11N20SISO	2412	Ant1	2390.0	-52.60	2.0	0	44.63	AV	54	PASS
11N20SISO	2462	Ant1	2483.5	-40.24	2.0	0	56.99	PEAK	74	PASS
11N20SISO	2462	Ant1	2483.5	-53.71	2.0	0	43.52	AV	54	PASS
11N20SISO	2462	Ant1	2500.0	-42.26	2.0	0	54.97	PEAK	74	PASS
11N20SISO	2462	Ant1	2500.0	-53.81	2.0	0	43.42	AV	54	PASS
11N40SISO	2422	Ant1	2310.0	-43.47	2.0	0	53.76	PEAK	74	PASS
11N40SISO	2422	Ant1	2310.0	-54.31	2.0	0	42.92	AV	54	PASS
11N40SISO	2422	Ant1	2390.0	-34.09	2.0	0	63.14	PEAK	74	PASS
11N40SISO	2422	Ant1	2390.0	-49.30	2.0	0	47.93	AV	54	PASS
11N40SISO	2452	Ant1	2483.5	-43.92	2.0	0	53.31	PEAK	74	PASS
11N40SISO	2452	Ant1	2483.5	-53.42	2.0	0	43.81	AV	54	PASS
11N40SISO	2452	Ant1	2500.0	-42.52	2.0	0	54.71	PEAK	74	PASS
11N40SISO	2452	Ant1	2500.0	-53.73	2.0	0	43.50	AV	54	PASS

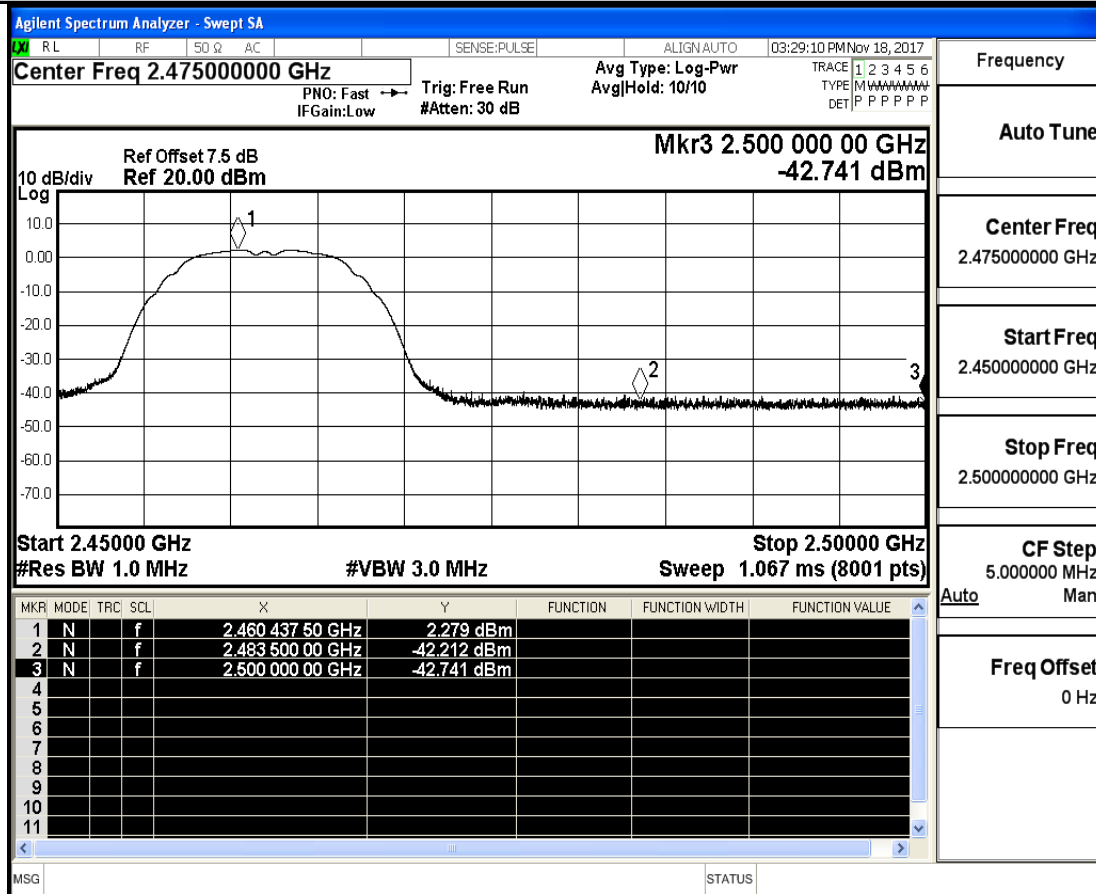
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



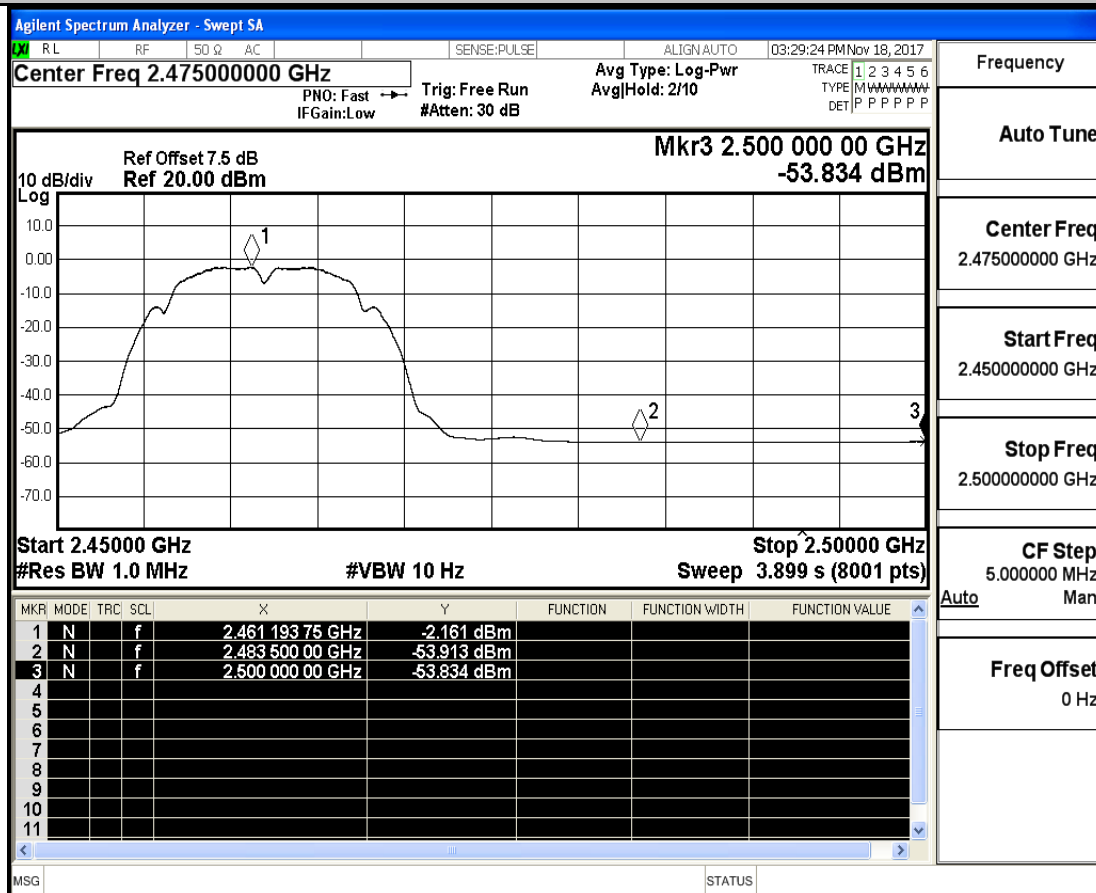
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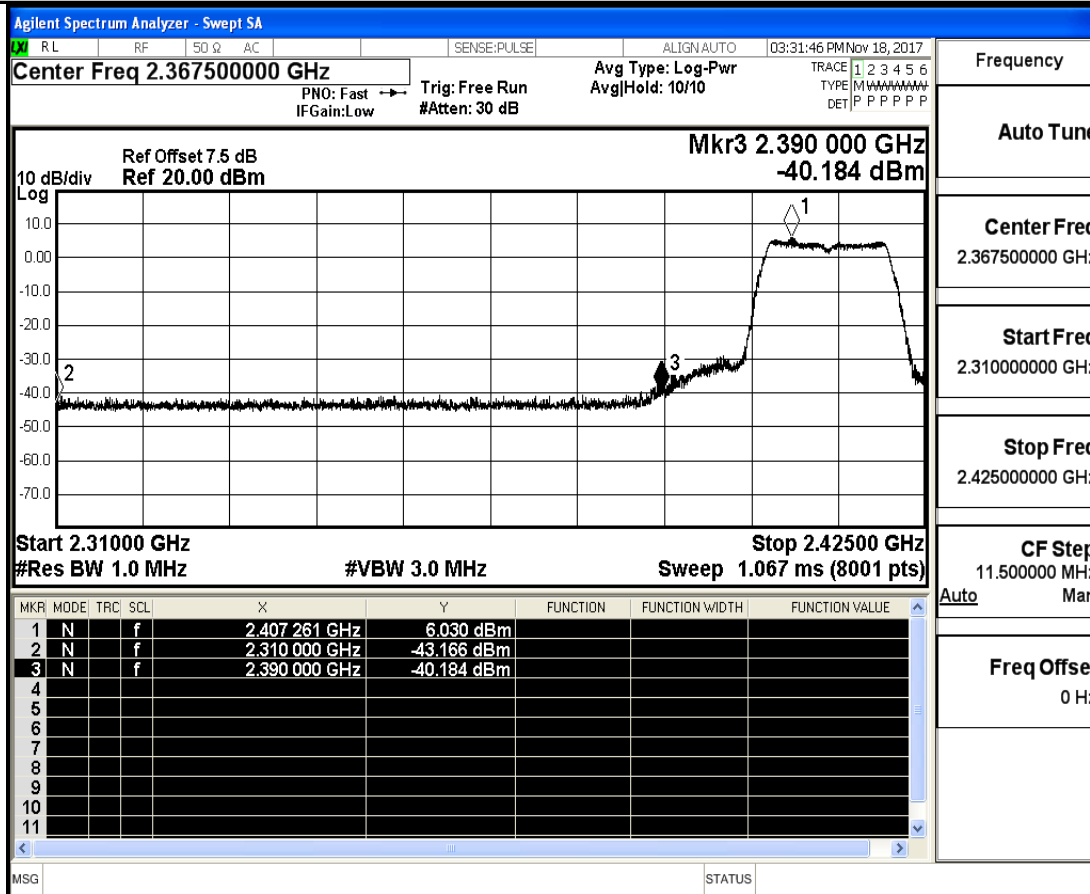
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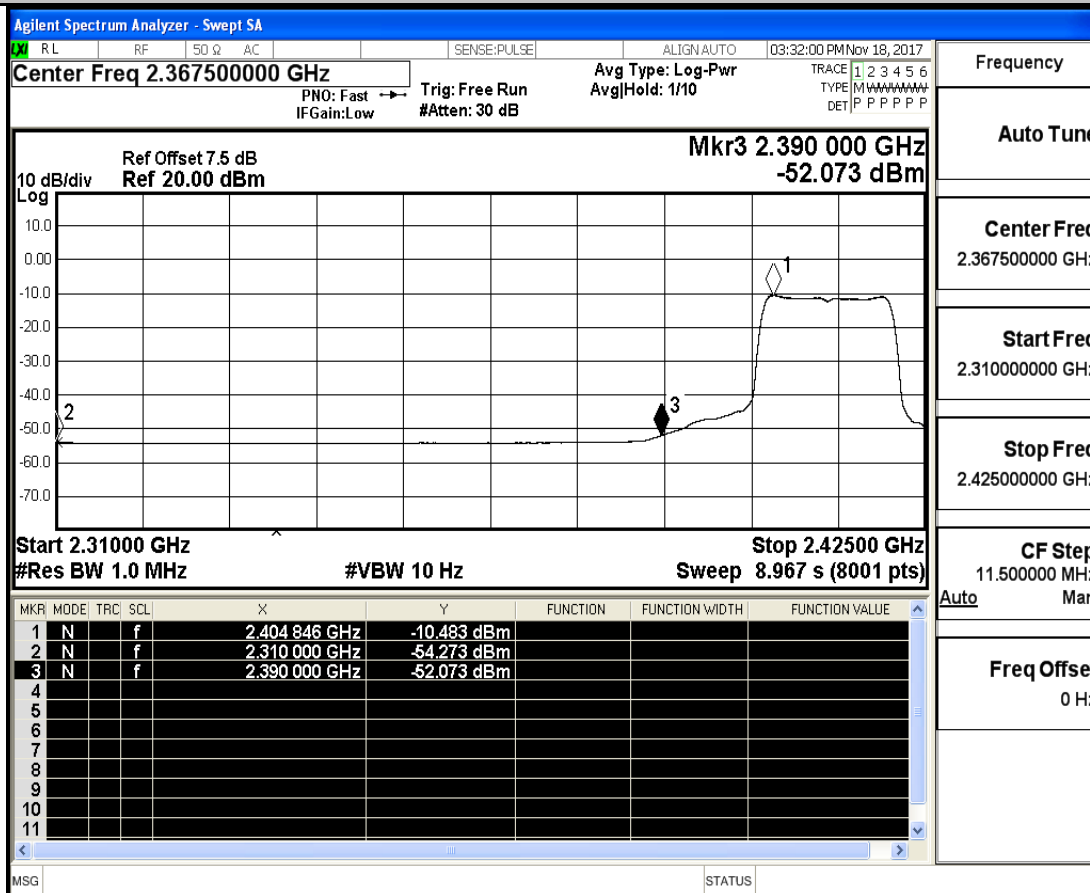
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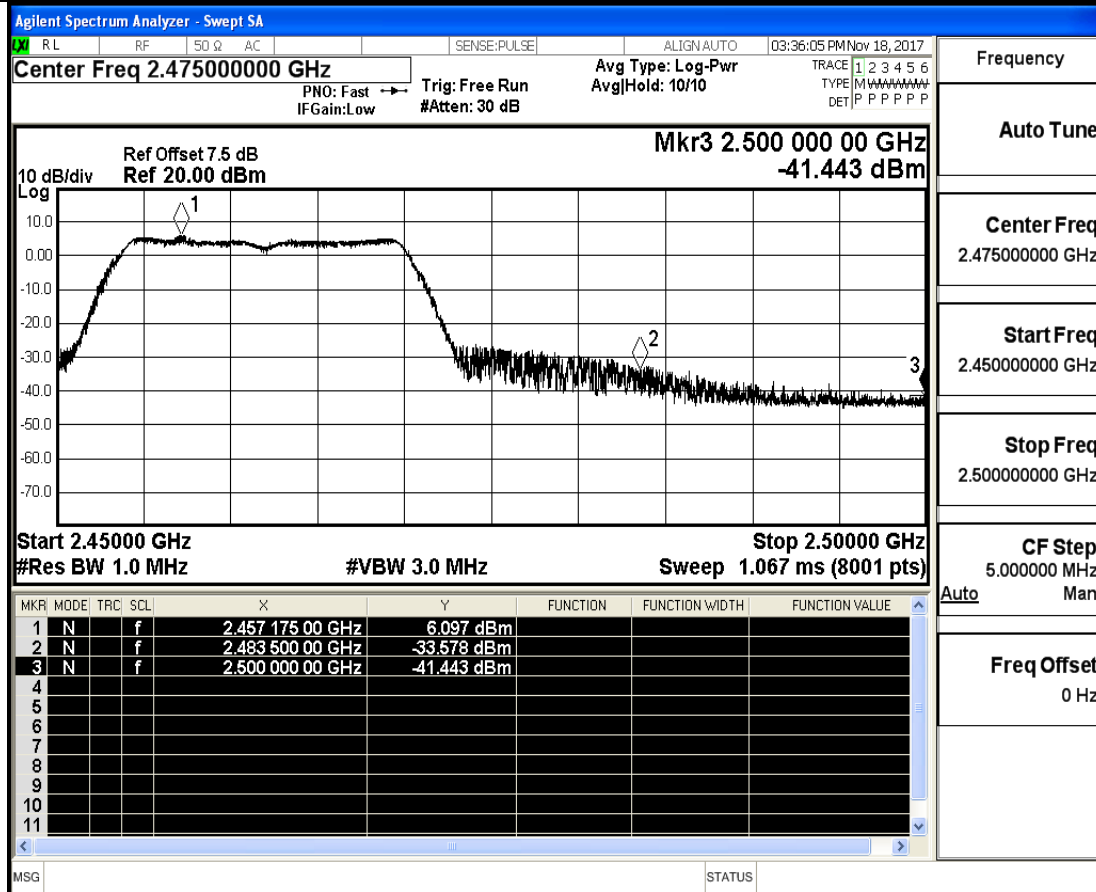
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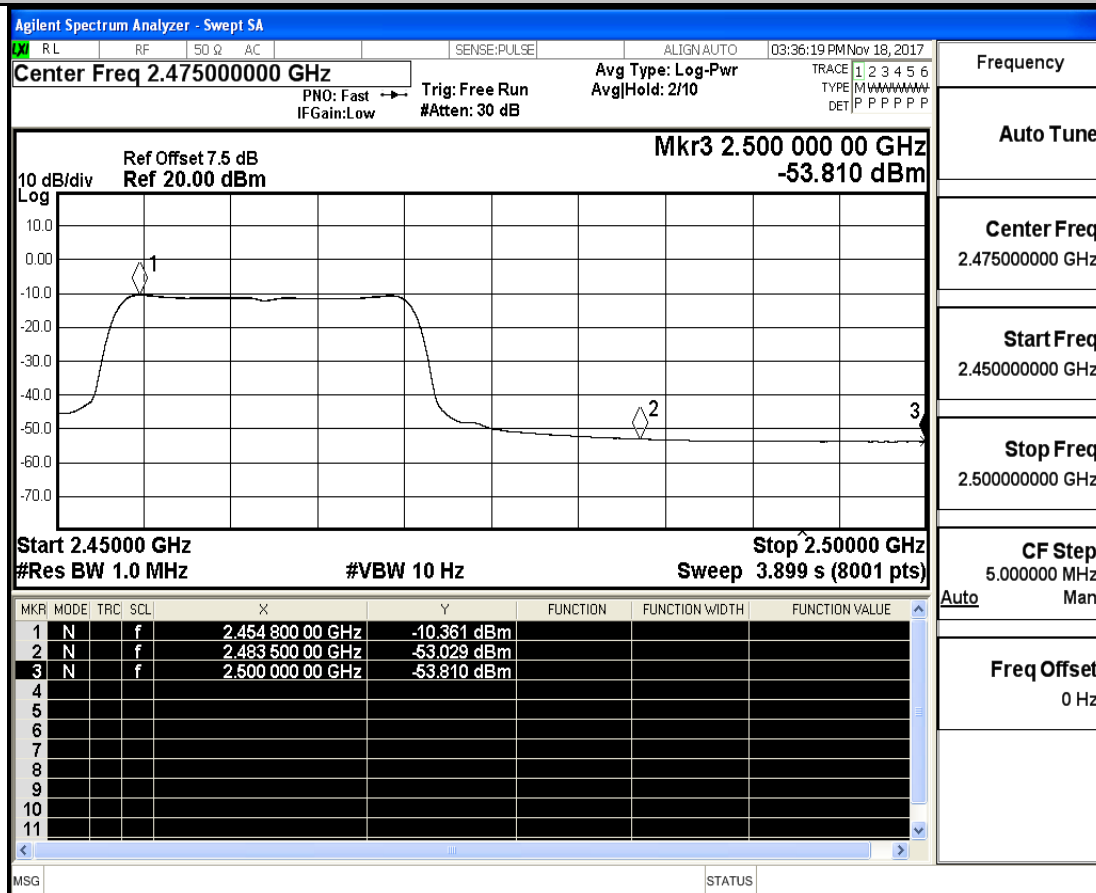
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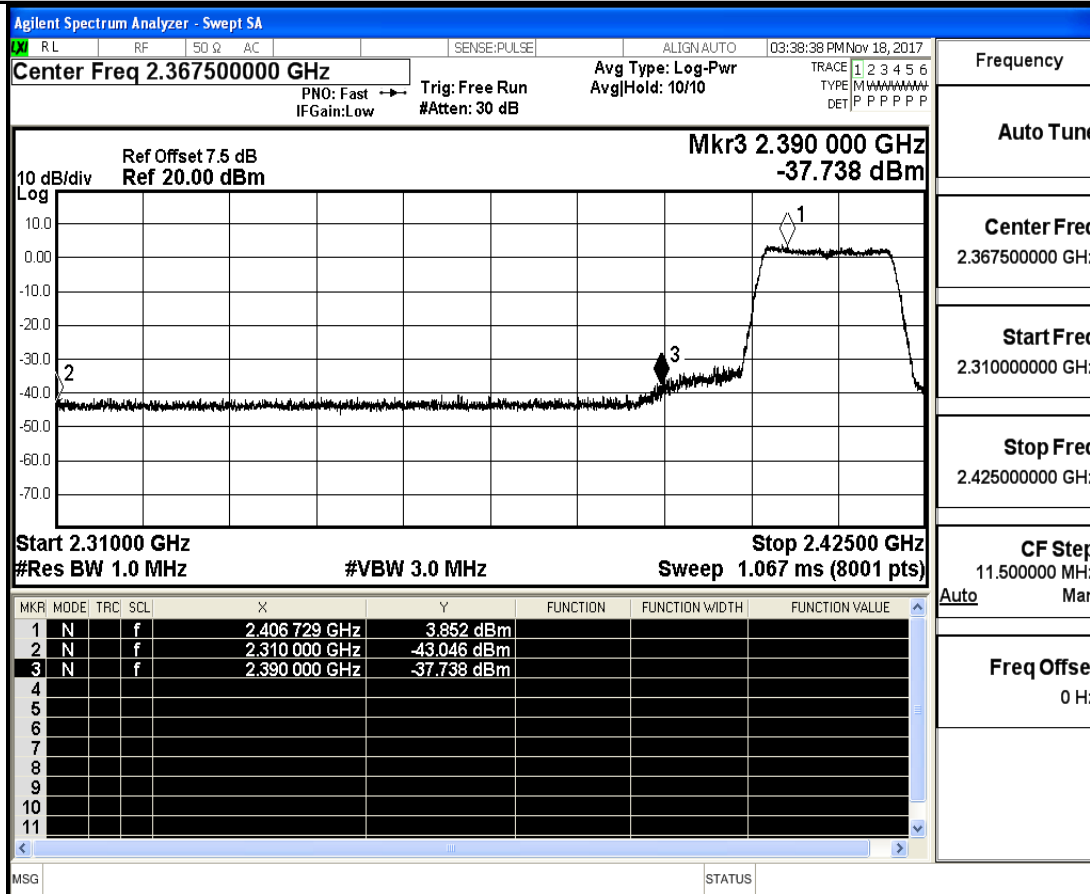
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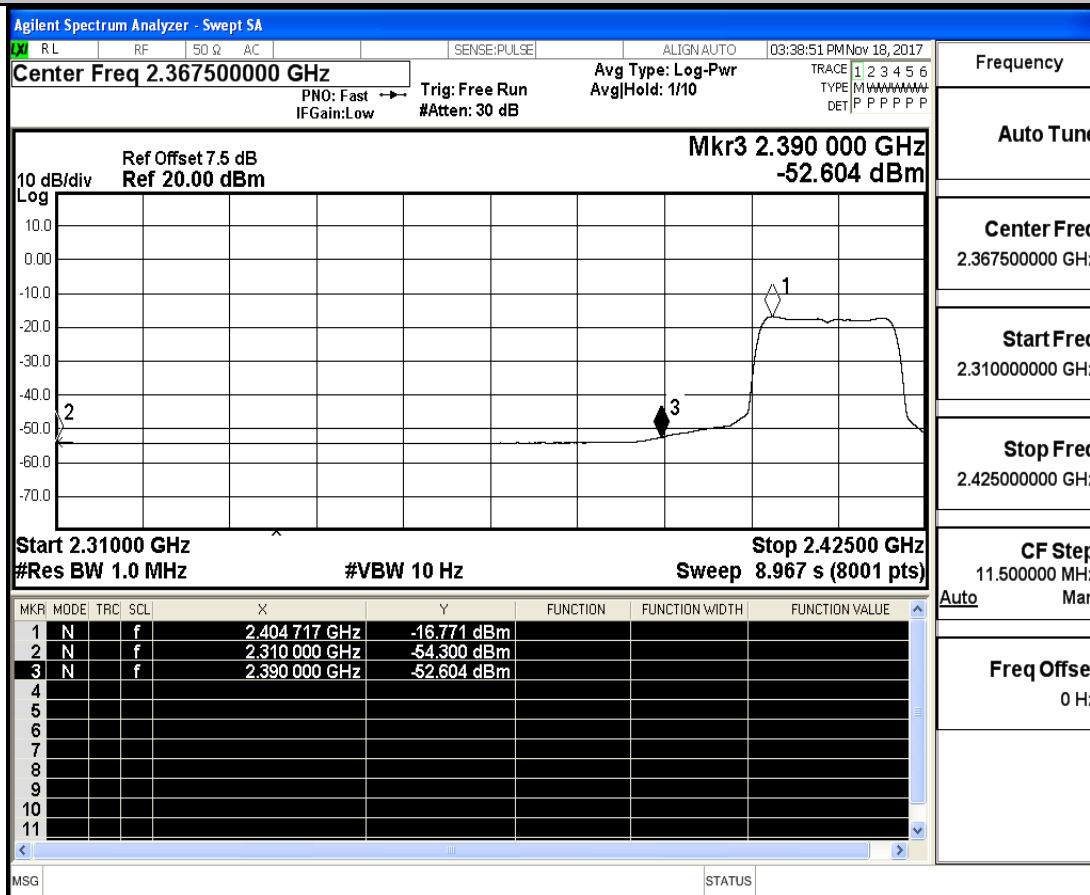
Restrict-band band-edge measurements_11G_2462_Ant1_AV



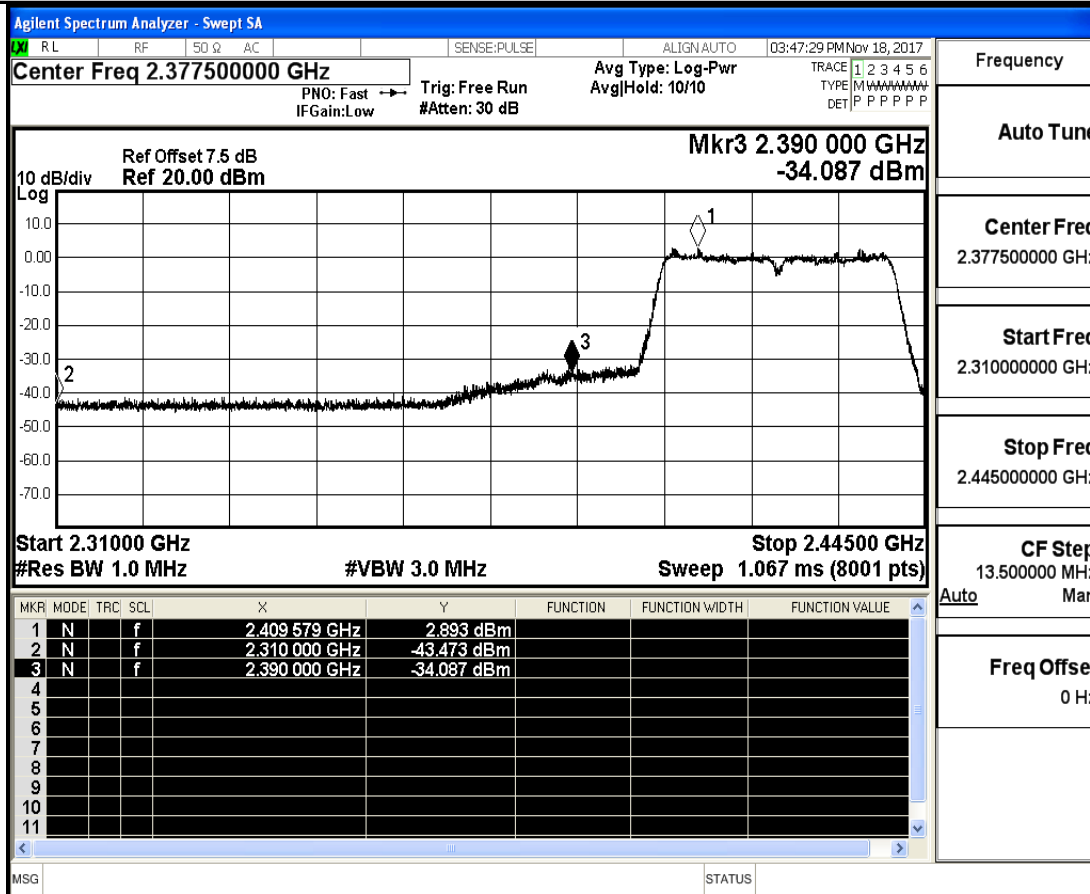
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



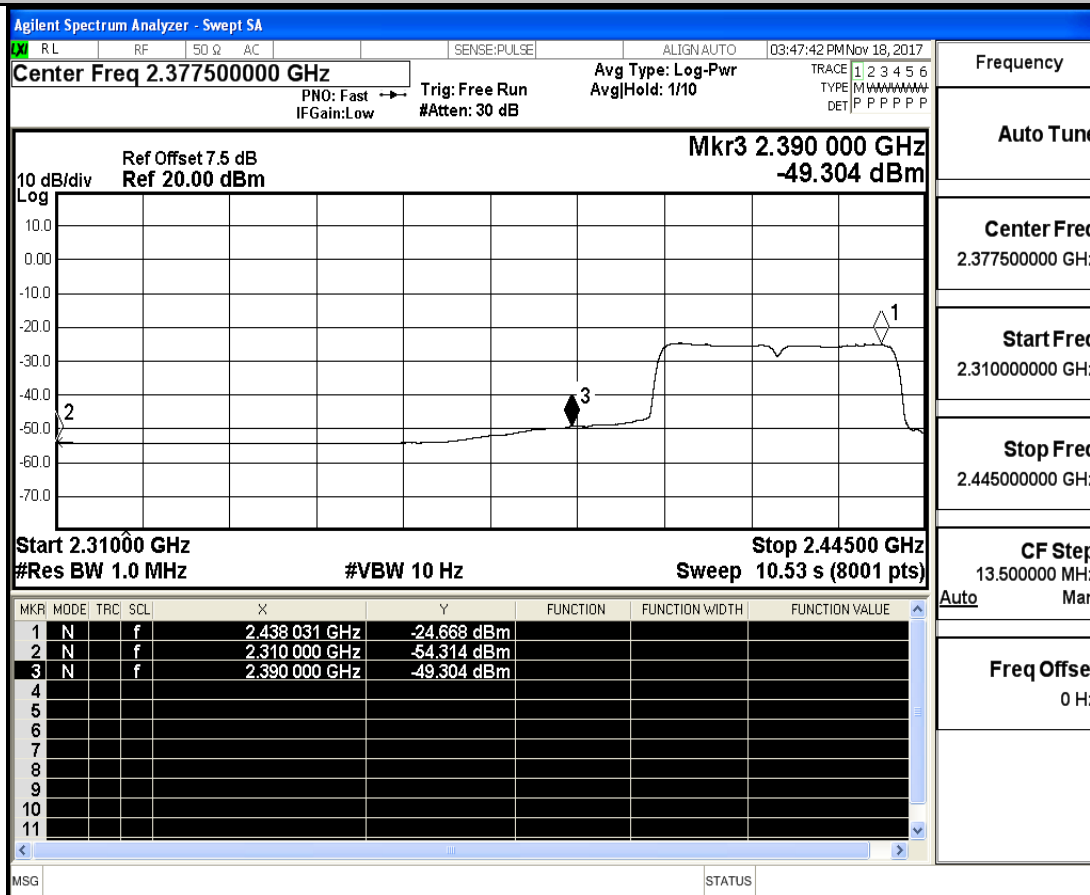
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



Agilent Spectrum Analyzer - Swept SA

R/L	RF	50 Ω AC	SENSE:PULSE	ALIGN AUTO	03:51:45 PM Nov 18, 2017
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Center Freq 2.46500000 GHz

Avg Type: Log-Pwr
 Avg/Hold: 10/10

PNO: Fast → Trig: Free Run IF Gain: Low #Atten: 30 dB

Mkr3 2.500 000 00 GHz
-42.518 dBm

Start 2.43000 GHz Stop 2.50000 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.067 ms (8001 pts)

MKR	MODE	TRE	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.435 871 25 GHz	-3.758 dBm			
2	N	f		2.483 500 00 GHz	-43.923 dBm			
3	N	f		2.500 000 00 GHz	-42.518 dBm			
4								
5								
6								
7								
8								
9								
10								
11								

MSG
STATUS

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:PULSE ALIGN AUTO 03:51:58 PM Nov 18, 2017

Center Freq 2.465000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr TRACE 1 2 3 4 5 6
IF Gain: Low #Atten: 30 dB Avg Hold: 2/10 TYPE M P P P P P P P
DET P P P P P P P P

Ref Offset 7.5 dB Mkr3 2.500 000 00 GHz
Ref 20.00 dBm -53.726 dBm

10 dB/div Log

Start 2.43000 GHz Stop 2.50000 GHz
#Res BW 1.0 MHz #VBW 10 Hz Sweep 5.459 s (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	2.437 000 00 GHz	-24.374 dBm			
2	N		f	2.483 500 00 GHz	-53.423 dBm			
3	N		f	2.500 000 00 GHz	-53.726 dBm			
4								
5								
6								
7								
8								
9								
10								
11								

Frequency

Auto Tune

Center Freq
2.465000000 GHz

Start Freq
2.430000000 GHz

Stop Freq
2.500000000 GHz

CF Step
7.000000 MHz

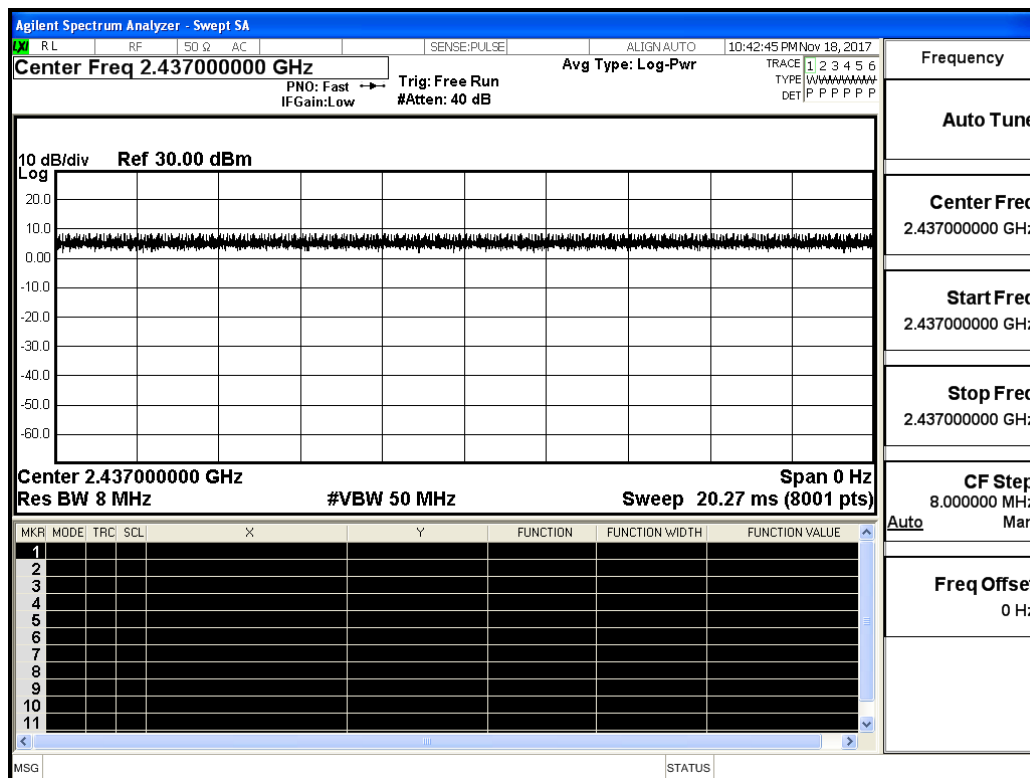
Auto Man

Freq Offset
0 Hz

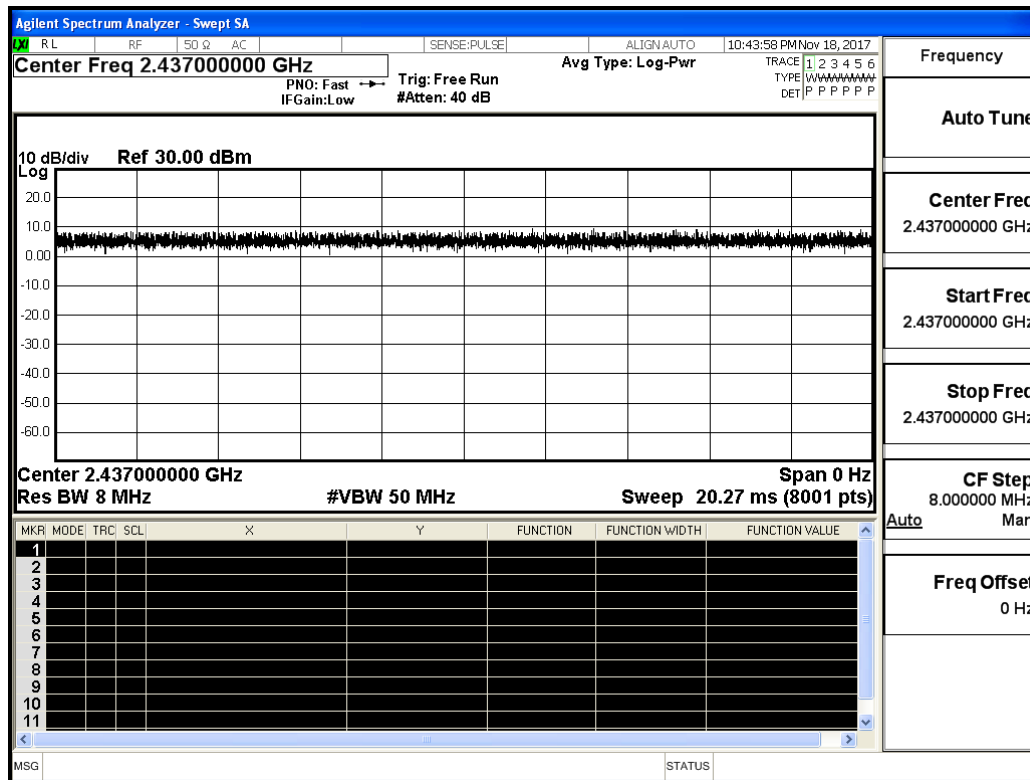
MSG STATUS

6.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



On Time and Duty Cycle_11n20_2437



On Time and Duty Cycle_11n40_2437

