

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Tablet

Trade Mark: N/A

Test Model: I1401

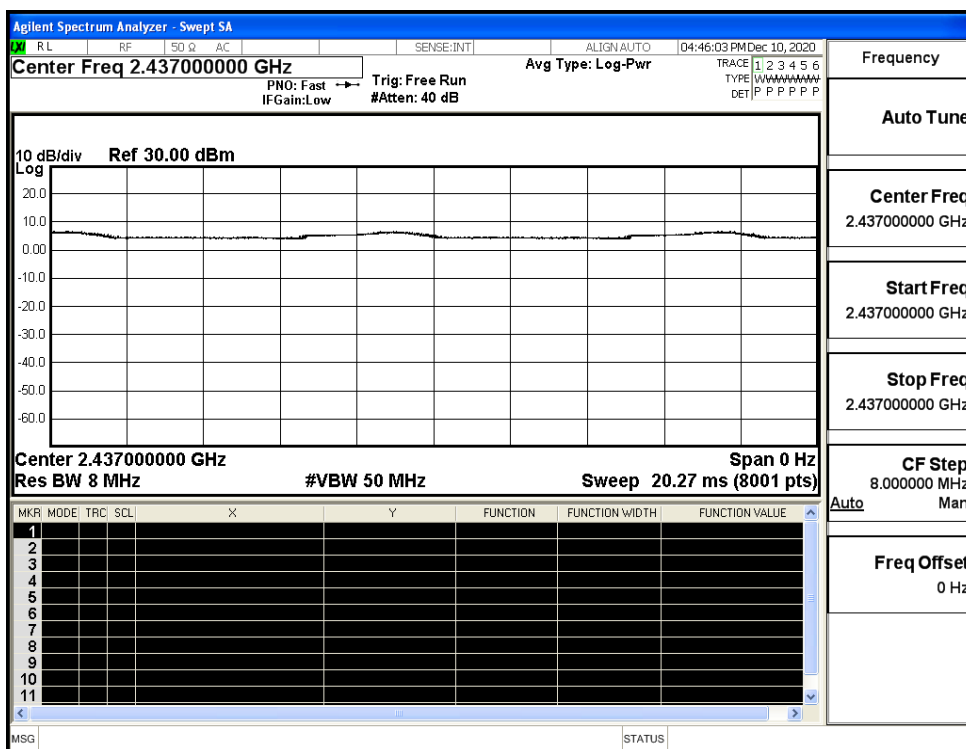
Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ben Jin
Supervised by:	Li Huan

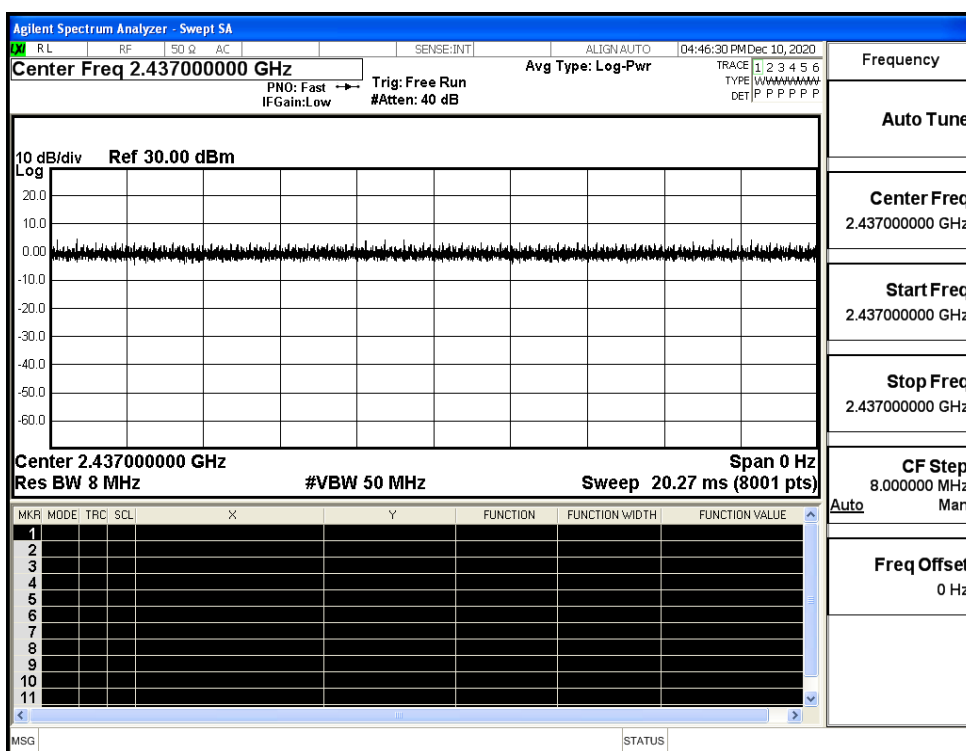
C.1 Duty Cycle

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

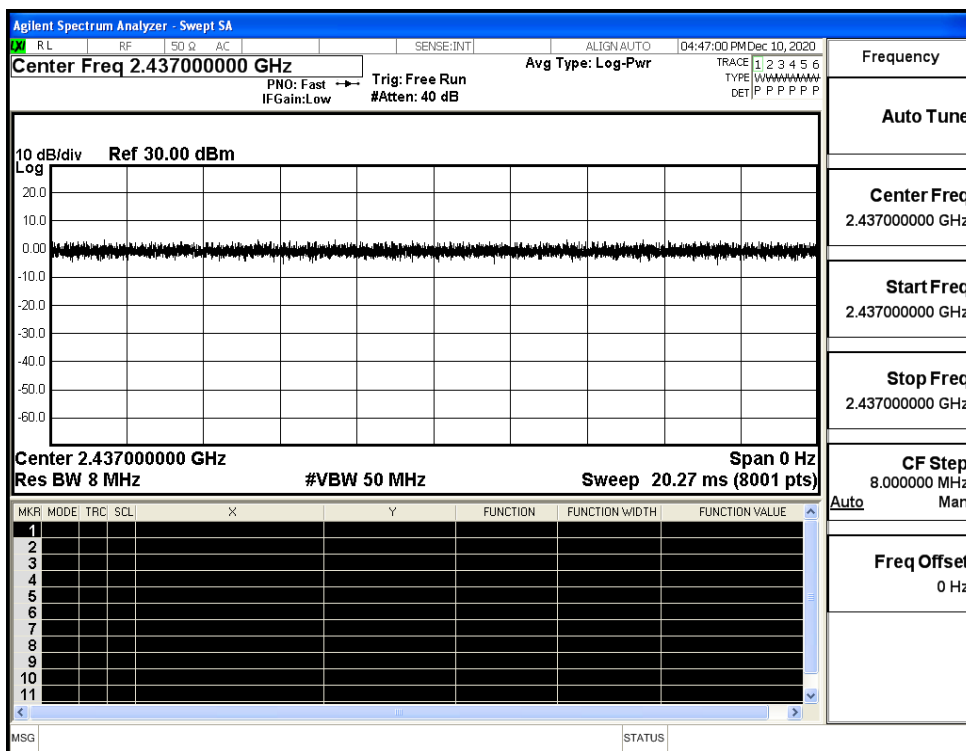
Duty Cycle_11B_2437_Ant1



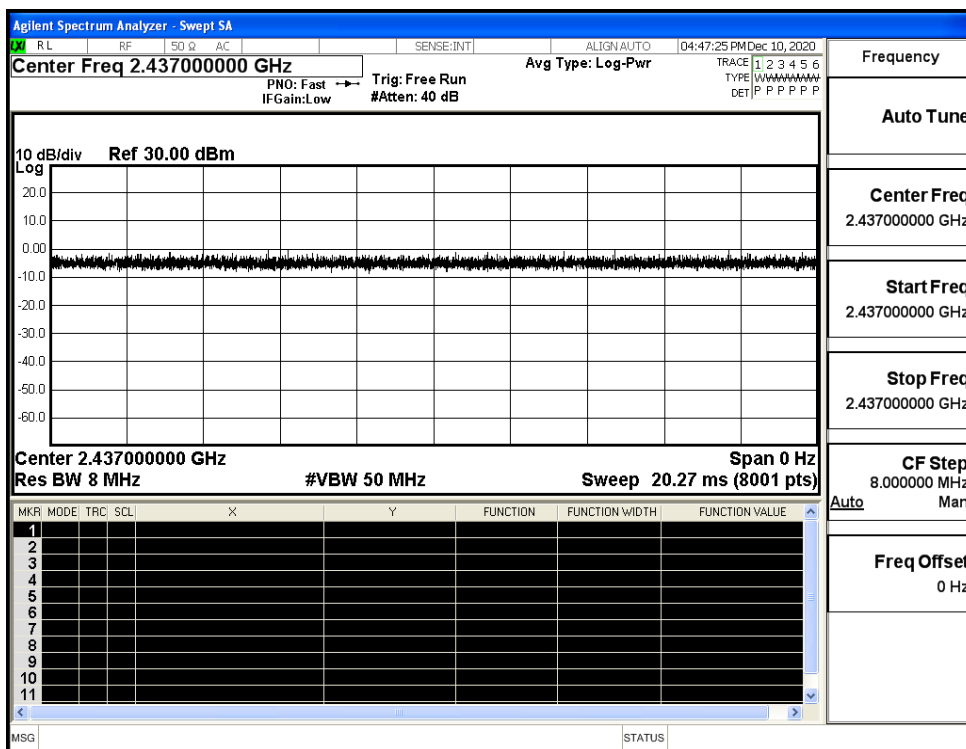
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



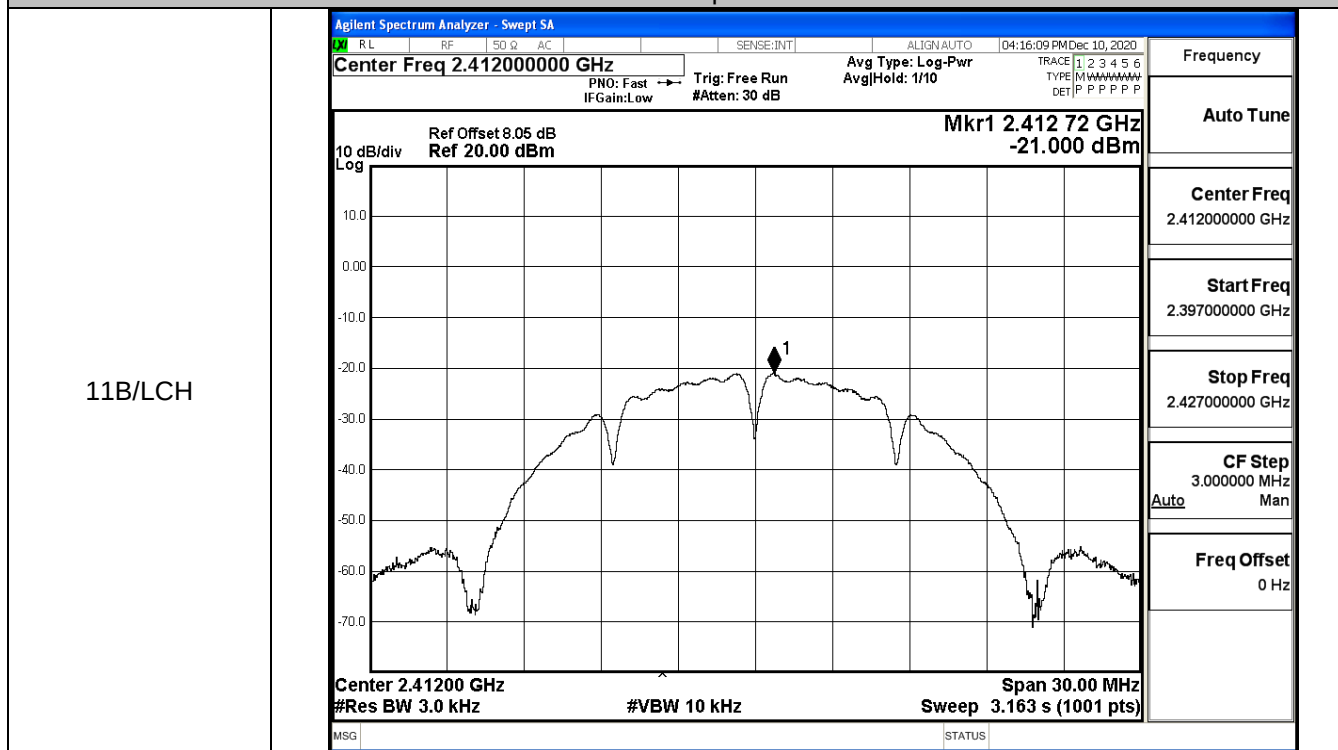
C.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	9.10	30	PASS
	MCH	9.27	30	PASS
	HCH	9.16	30	PASS
11G	LCH	9.12	30	PASS
	MCH	9.38	30	PASS
	HCH	9.12	30	PASS
11N20SISO	LCH	9.30	30	PASS
	MCH	9.14	30	PASS
	HCH	9.32	30	PASS
11N40SISO	LCH	9.40	30	PASS
	MCH	9.29	30	PASS
	HCH	9.35	30	PASS

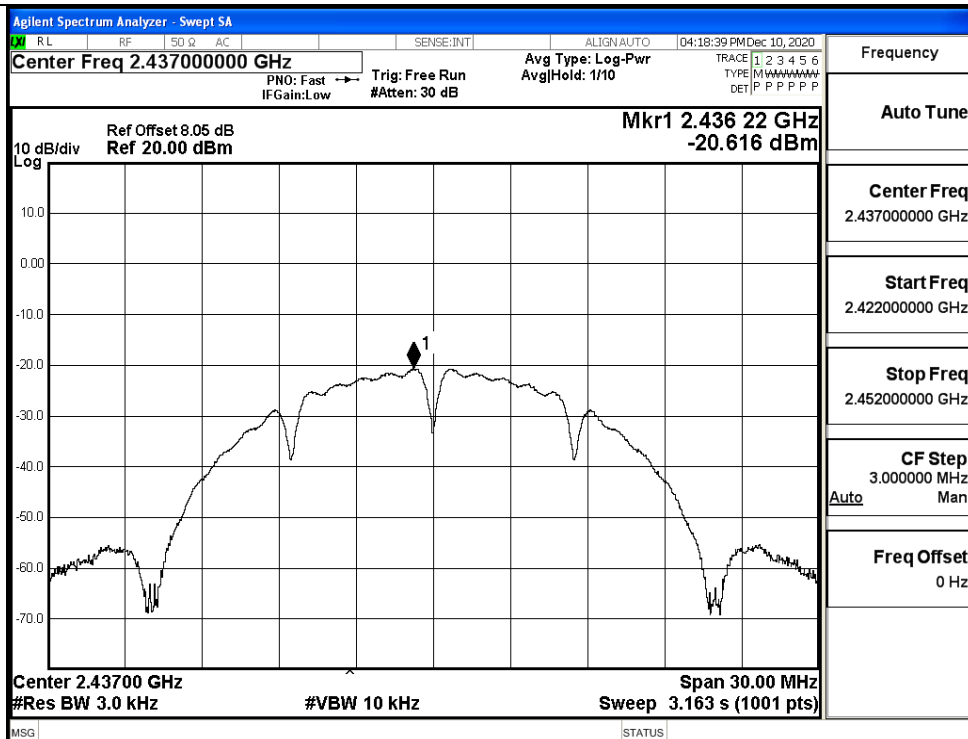
C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-21.000	8	PASS
	MCH	-20.616	8	PASS
	HCH	-20.915	8	PASS
11G	LCH	-23.936	8	PASS
	MCH	-23.679	8	PASS
	HCH	-24.444	8	PASS
11N20SISO	LCH	-24.167	8	PASS
	MCH	-23.764	8	PASS
	HCH	-23.909	8	PASS
11N40SISO	LCH	-24.881	8	PASS
	MCH	-24.950	8	PASS
	HCH	-27.025	8	PASS

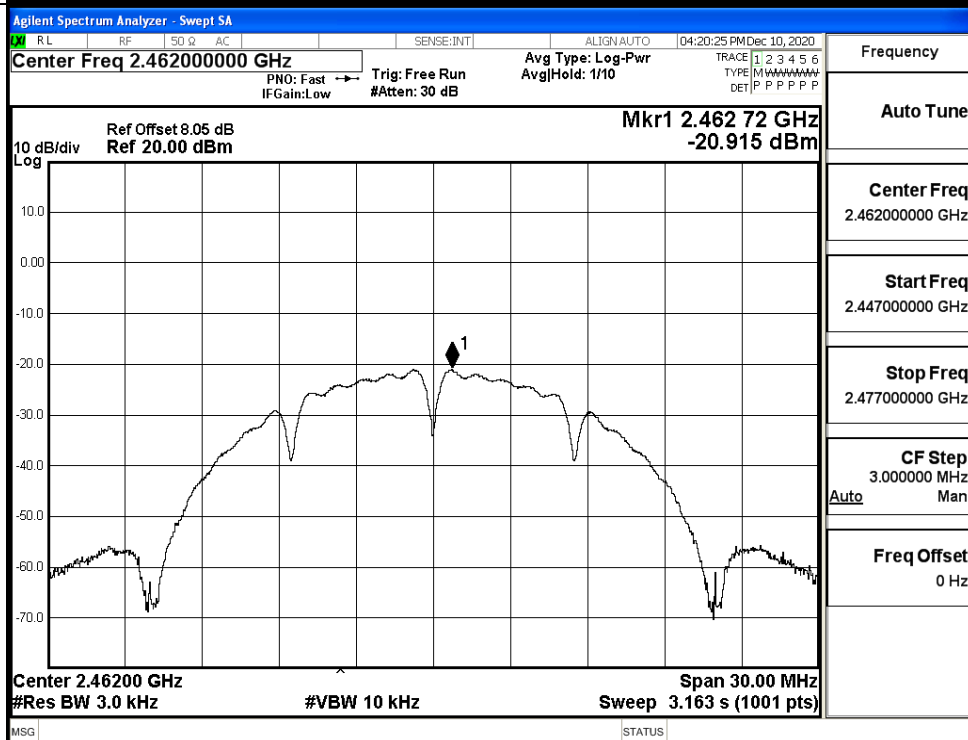
Test Graphs



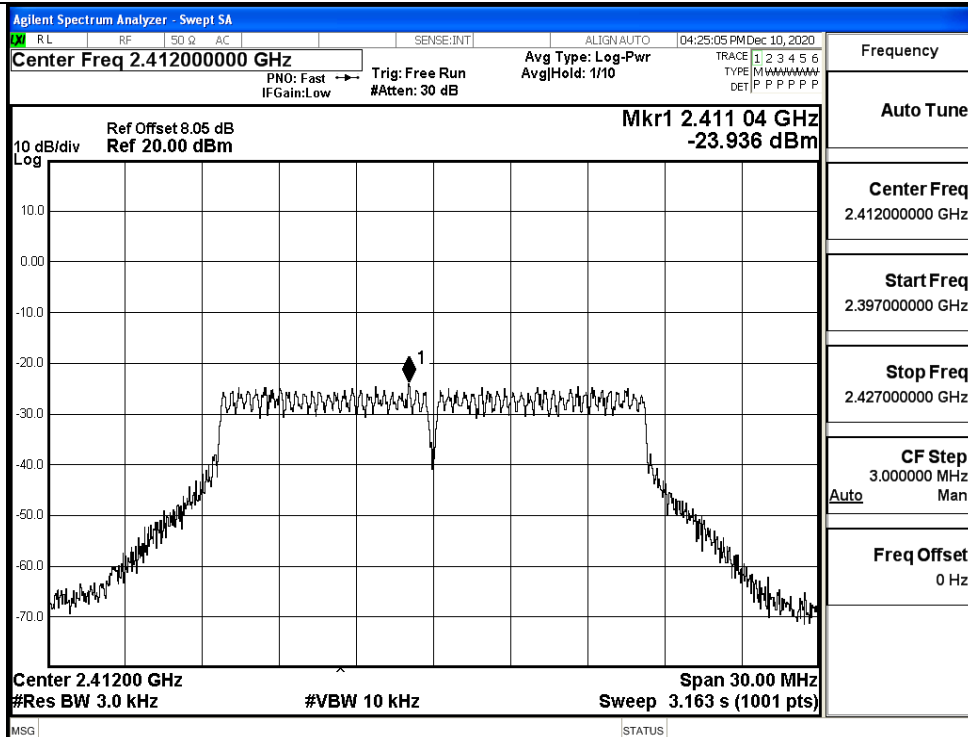
11B/MCH



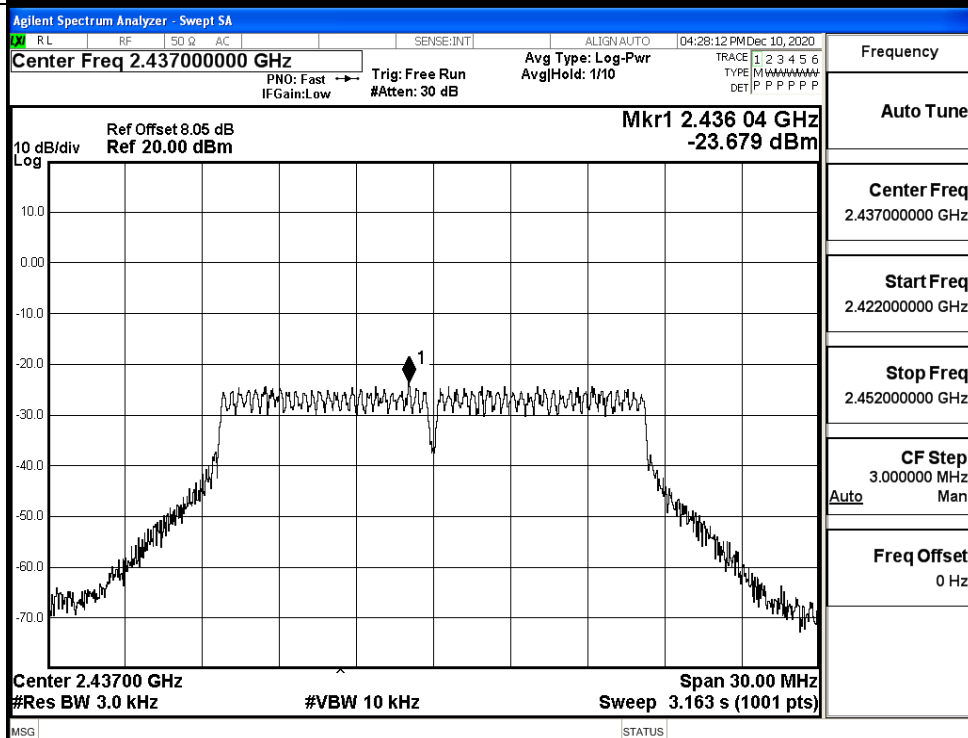
11B/HCH



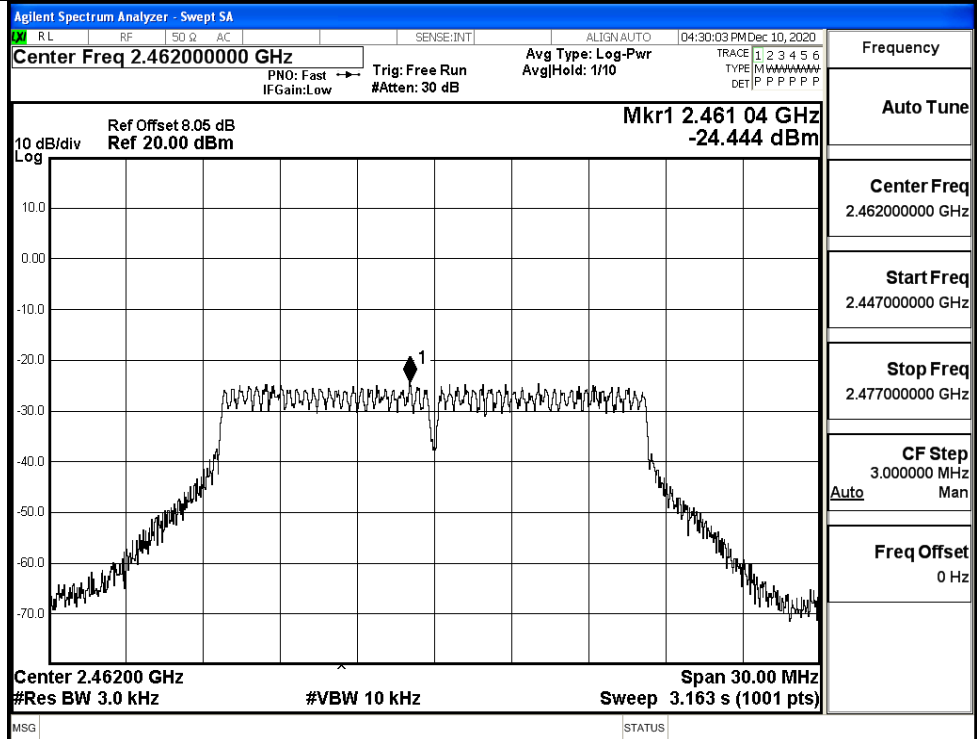
11G/LCH



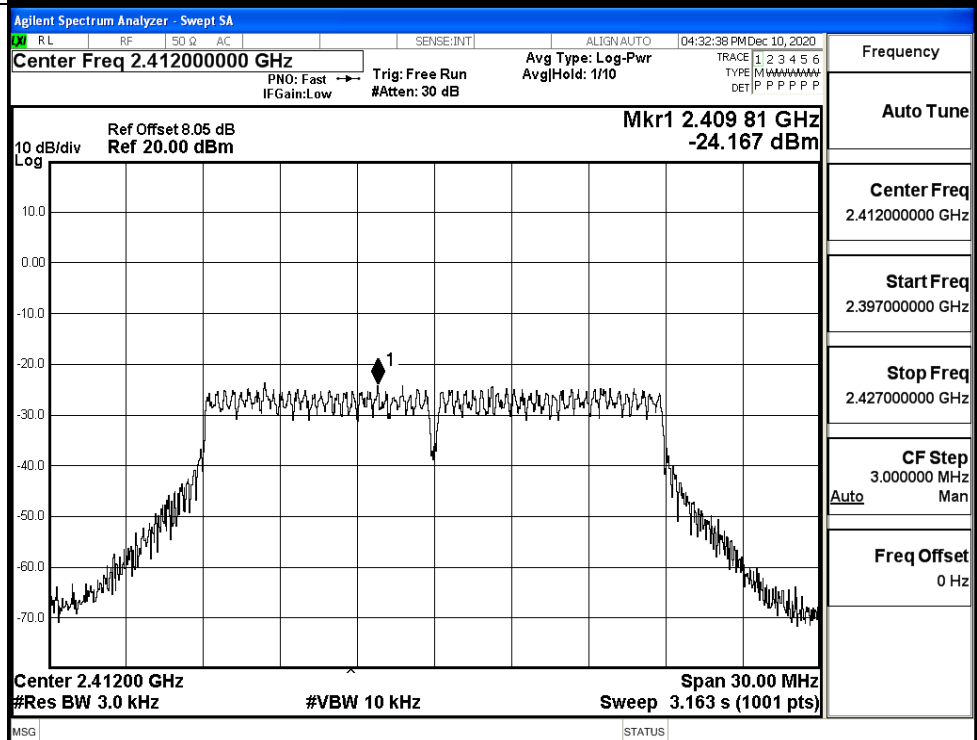
11G/MCH

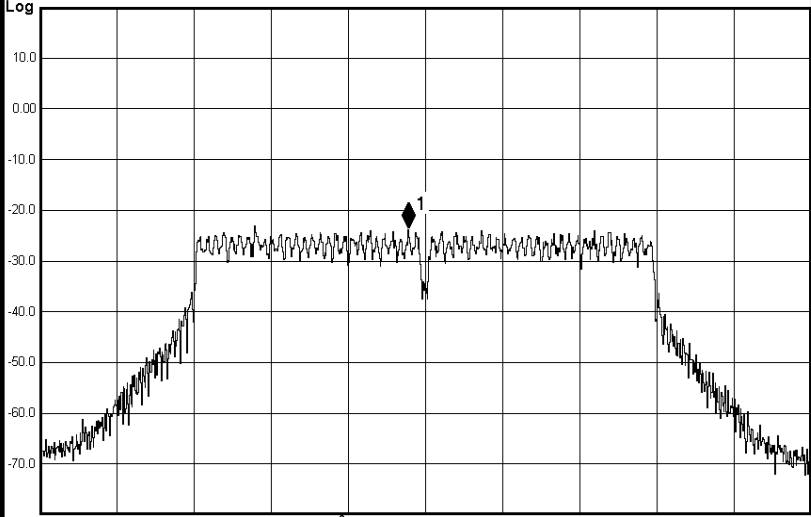
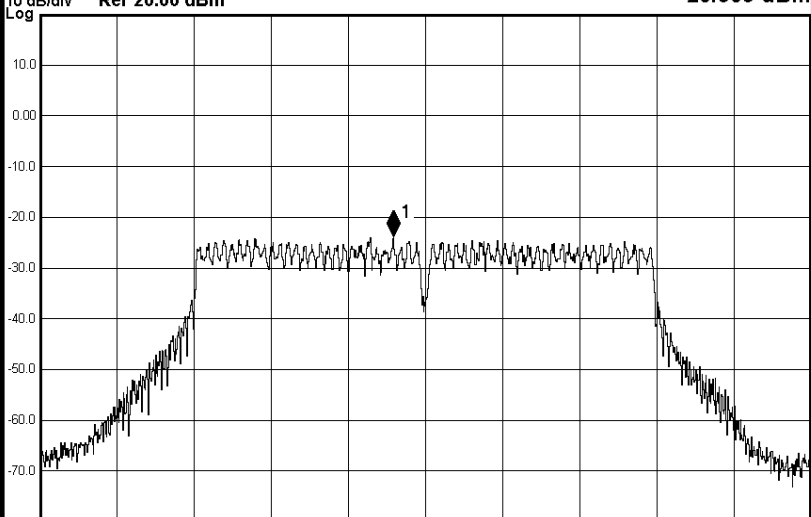


11G/HCH

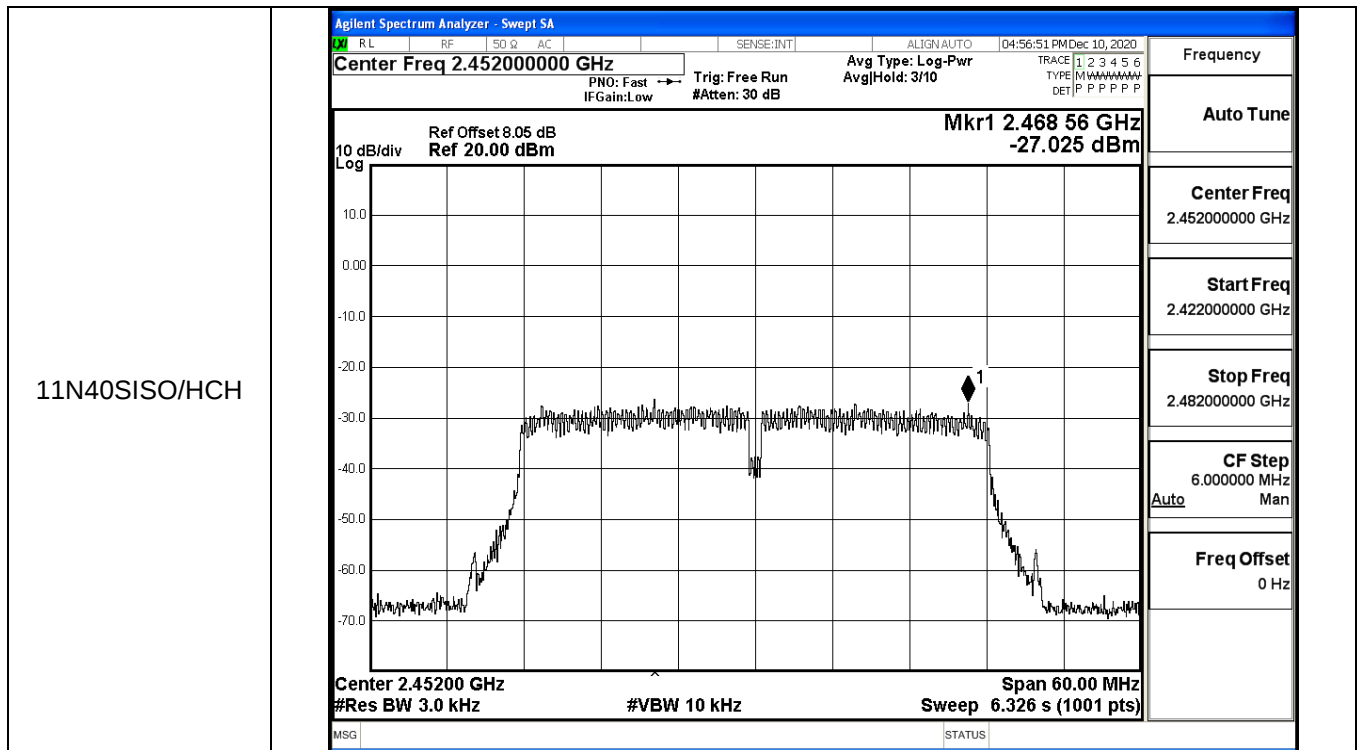


11N20SISO/LCH



11N20SISO/MCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 04:35:18 PM Dec 10, 2020 Center Freq 2.437000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr AvgHold: 1/10 TRACE 1 2 3 4 5 6 TYPE M W W W W W W W DET P P P P P P Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.422000000 GHz Stop Freq 2.452000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz 10 dB/div Ref Offset 8.05 dB Mkr1 2.436 34 GHz Log Ref 20.00 dBm -23.764 dBm  Center 2.43700 GHz Span 30.00 MHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts) MSG STATUS
11N20SISO/HCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 04:37:15 PM Dec 10, 2020 Center Freq 2.462000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr AvgHold: 1/10 TRACE 1 2 3 4 5 6 TYPE M W W W W W W W DET P P P P P P Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.447000000 GHz Stop Freq 2.477000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz 10 dB/div Ref Offset 8.05 dB Mkr1 2.460 77 GHz Log Ref 20.00 dBm -23.909 dBm  Center 2.46200 GHz Span 30.00 MHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts) MSG STATUS

11N40SISO/LCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 04:55:17 PM Dec 10, 2020 Center Freq 2.422000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 2/10 TRACE 1 2 3 4 5 6 TYPE [M W A W A W A W] DET [P P P P P P] Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.418 58 GHz -24.881 dBm 10 dB/div Log Center 2.42200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts) MSG STATUS Frequency Auto Tune Center Freq 2.422000000 GHz Start Freq 2.392000000 GHz Stop Freq 2.452000000 GHz CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz
11N40SISO/MCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 04:56:08 PM Dec 10, 2020 Center Freq 2.437000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 2/10 TRACE 1 2 3 4 5 6 TYPE [M W A W A W A W] DET [P P P P P P] Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.444 80 GHz -24.950 dBm 10 dB/div Log Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts) MSG STATUS Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.407000000 GHz Stop Freq 2.467000000 GHz CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz

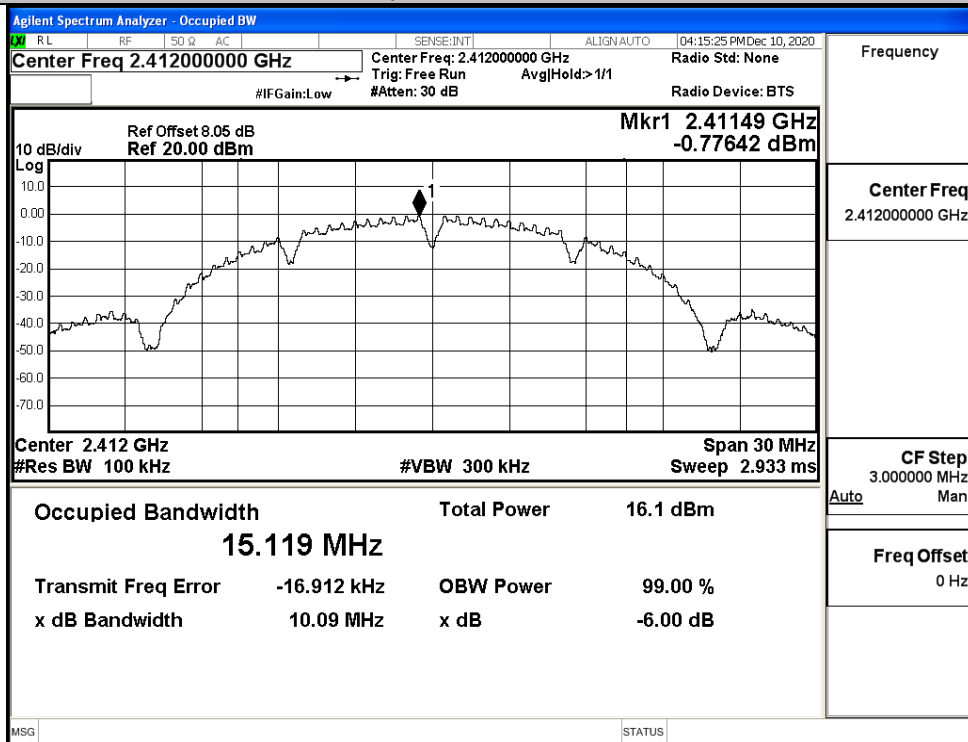


C.4 6dB Bandwidth

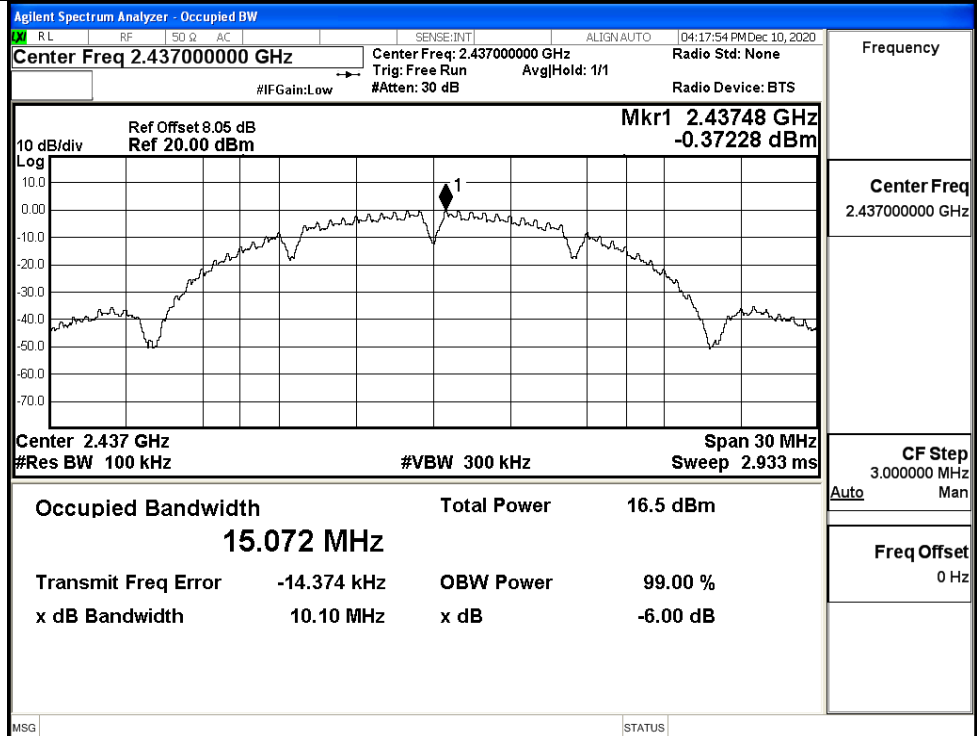
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.09	≥ 0.5	PASS
	MCH	10.10	≥ 0.5	PASS
	HCH	10.10	≥ 0.5	PASS
11G	LCH	16.61	≥ 0.5	PASS
	MCH	16.60	≥ 0.5	PASS
	HCH	16.61	≥ 0.5	PASS
11N20SISO	LCH	17.83	≥ 0.5	PASS
	MCH	17.83	≥ 0.5	PASS
	HCH	17.83	≥ 0.5	PASS
11N40SISO	LCH	36.49	≥ 0.5	PASS
	MCH	36.45	≥ 0.5	PASS
	HCH	36.49	≥ 0.5	PASS

Test Graphs

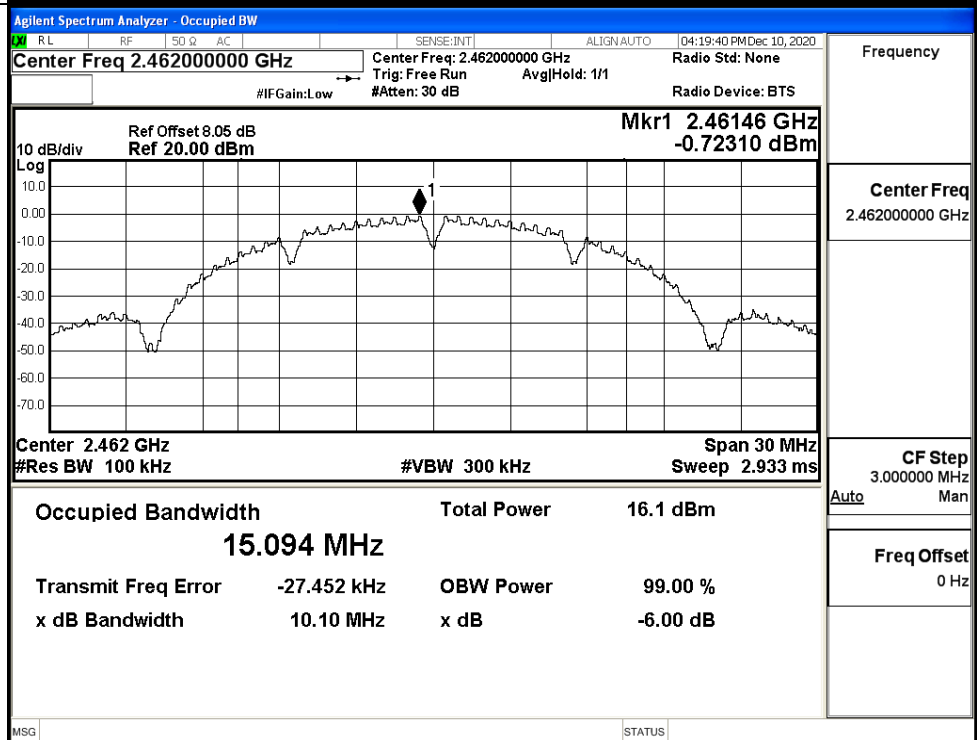
11B/LCH



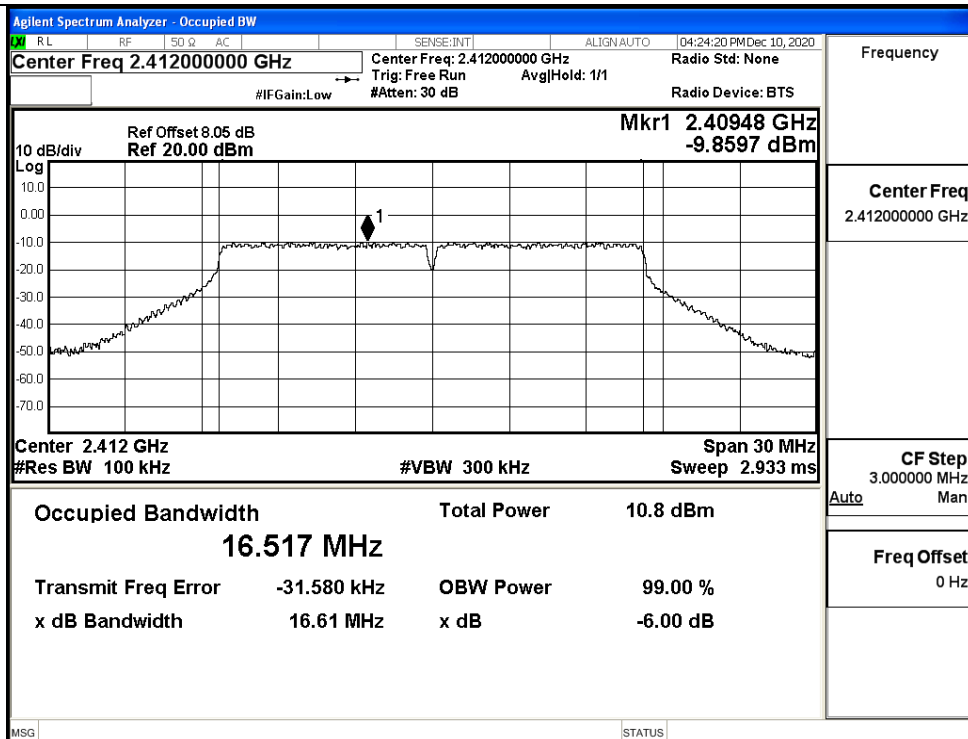
11B/MCH



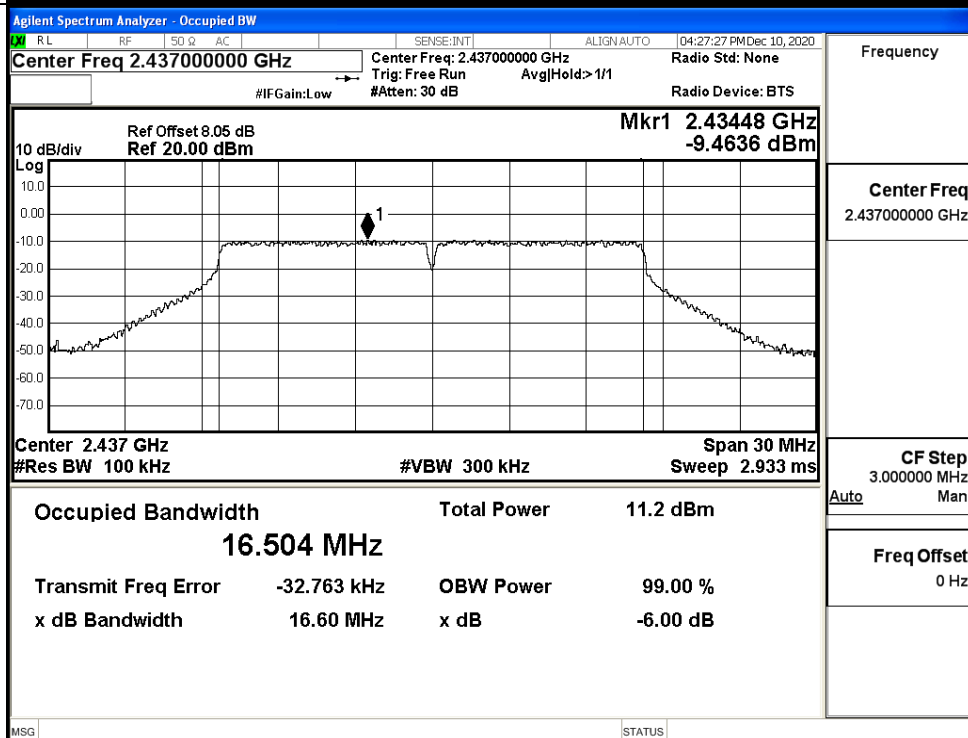
11B/HCH



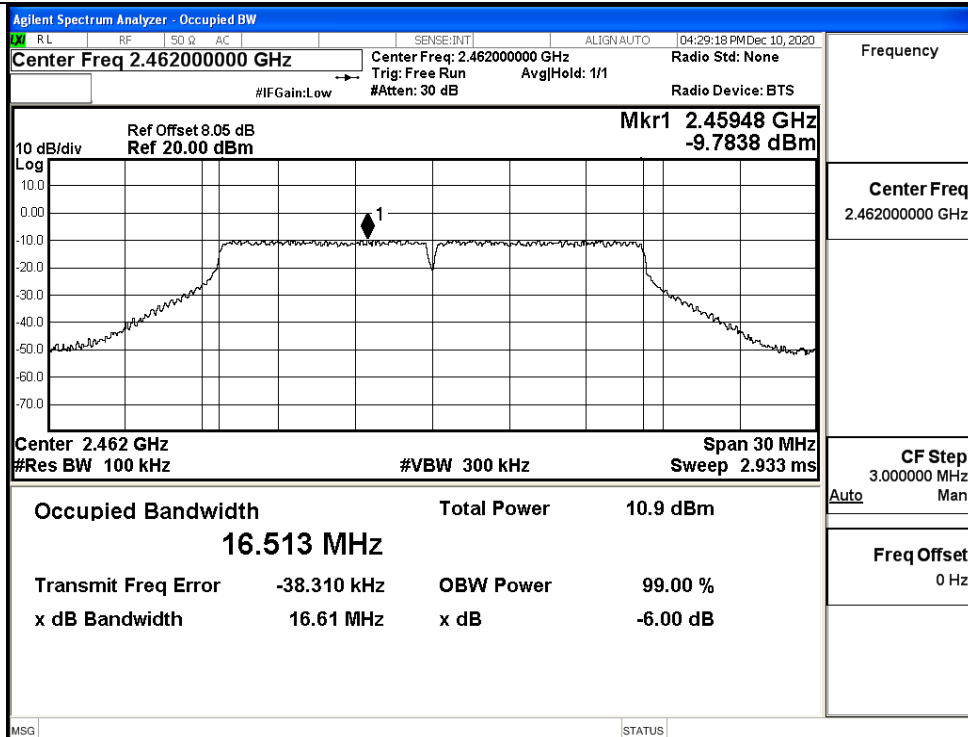
11G/LCH



11G/MCH



11G/HCH



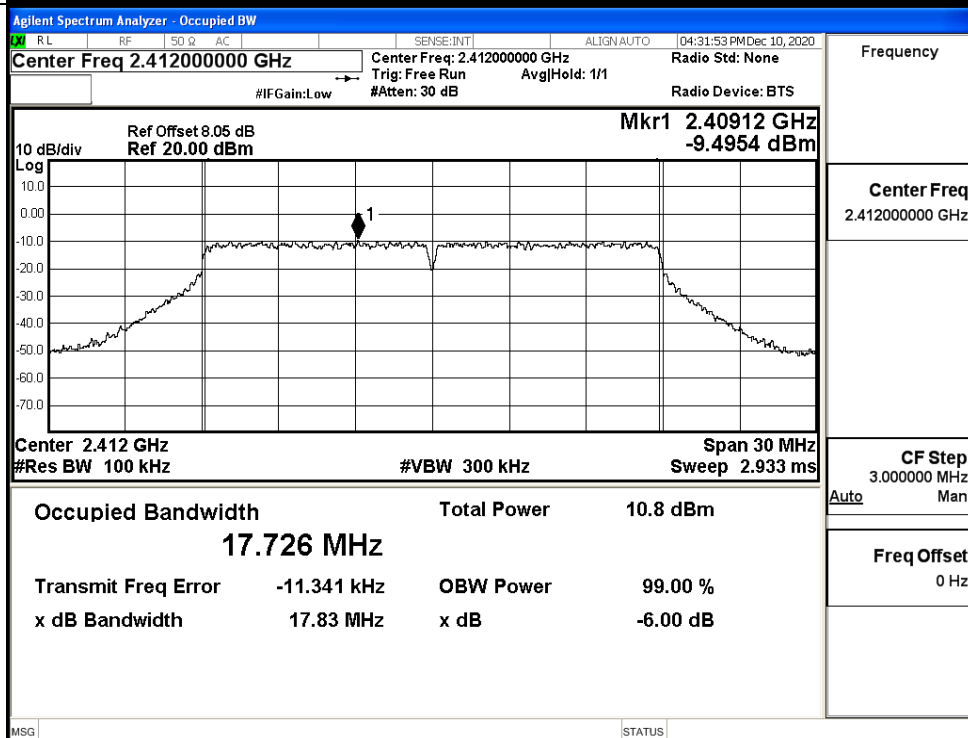
Frequency

Center Freq
2.46200000 GHz

CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

11N20SISO/LCH



Frequency

Center Freq
2.41200000 GHz

CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

11N20SISO/MCH

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.437000000 GHz

Center Freq: 2.437000000 GHz
Trig: Free Run
Avg/Hold: 1/1

Radio Device: BTS

Frequency

Center Freq
2.437000000 GHz

CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

10 dB/div
Log

Ref Offset 8.05 dB
Ref 20.00 dBm

Mkr1 2.43412 GHz
-9.0232 dBm

Center 2.437 GHz
#Res BW 100 kHz

Span 30 MHz
Sweep 2.933 ms

#VBW 300 kHz

Occupied Bandwidth

Total Power

11.2 dBm

17.716 MHz

Transmit Freq Error

-10.013 kHz

OBW Power

99.00 %

x dB Bandwidth

17.83 MHz

x dB

-6.00 dB

MSG

STATUS

11N20SISO/HCH

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.462000000 GHz

Center Freq: 2.462000000 GHz
Trig: Free Run
Avg/Hold: 1/1

Radio Device: BTS

Frequency

Center Freq
2.462000000 GHz

CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

10 dB/div
Log

Ref Offset 8.05 dB
Ref 20.00 dBm

Mkr1 2.45912 GHz
-9.3674 dBm

Center 2.462 GHz
#Res BW 100 kHz

Span 30 MHz
Sweep 2.933 ms

#VBW 300 kHz

Occupied Bandwidth

Total Power

10.9 dBm

17.720 MHz

Transmit Freq Error

-17.023 kHz

OBW Power

99.00 %

x dB Bandwidth

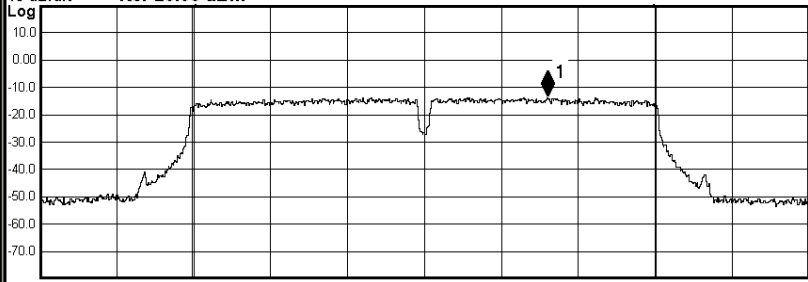
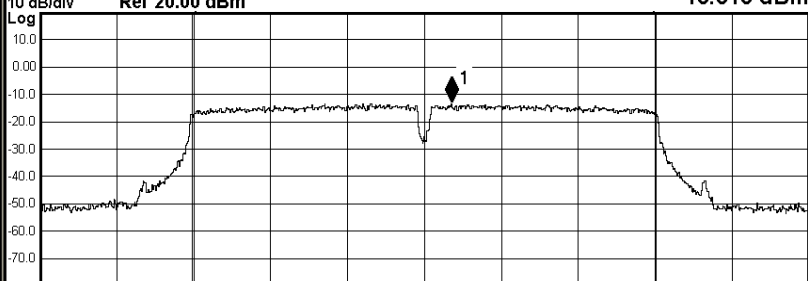
17.83 MHz

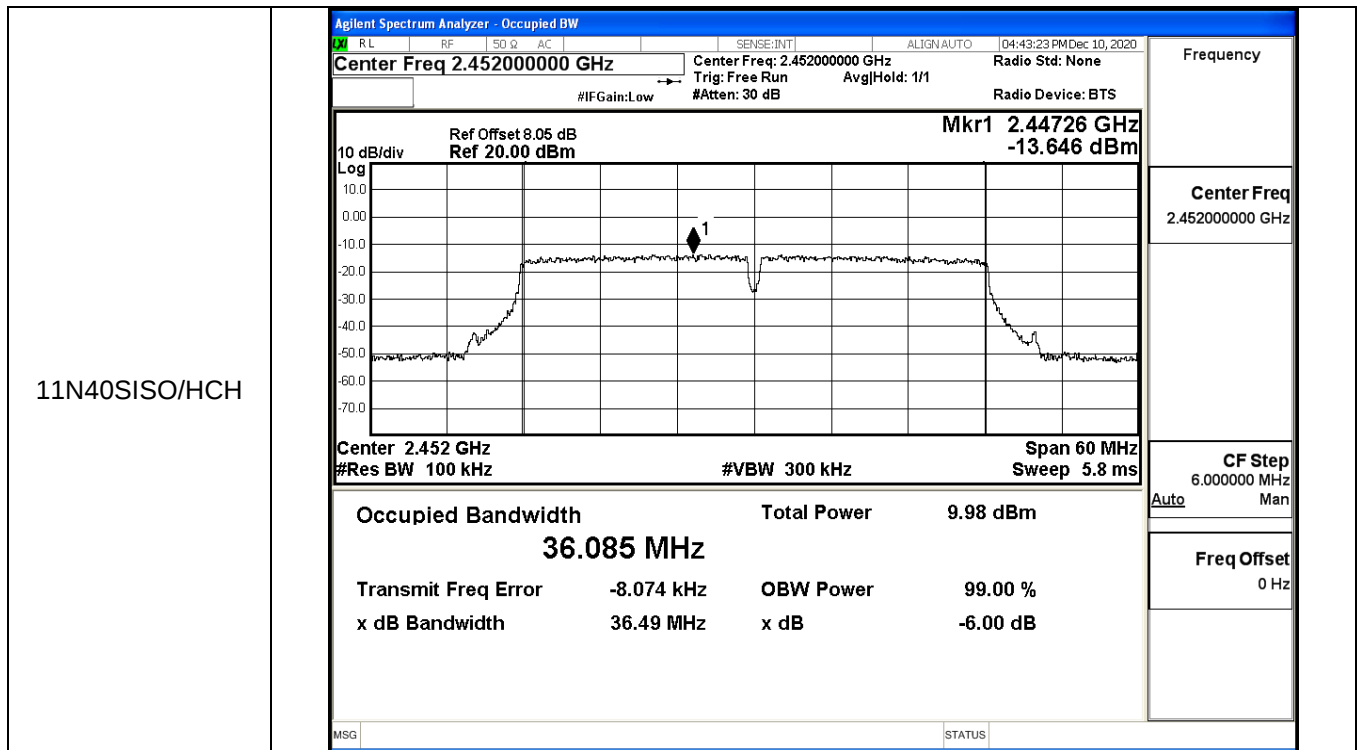
x dB

-6.00 dB

MSG

STATUS

11N40SISO/LCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:38:59 PM Dec 10, 2020 Center Freq 2.422000000 GHz Center Freq: 2.422000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 30 dB 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.4316 GHz -13.680 dBm  Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 36.083 MHz Total Power 10.1 dBm Transmit Freq Error 5.571 kHz OBW Power 99.00 % x dB Bandwidth 36.49 MHz x dB -6.00 dB MSG STATUS	Frequency Center Freq 2.422000000 GHz CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz
11N40SISO/MCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:41:30 PM Dec 10, 2020 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 30 dB 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.4391 GHz -13.313 dBm  Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 36.042 MHz Total Power 10.1 dBm Transmit Freq Error -5.449 kHz OBW Power 99.00 % x dB Bandwidth 36.45 MHz x dB -6.00 dB MSG STATUS	Frequency Center Freq 2.437000000 GHz CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz

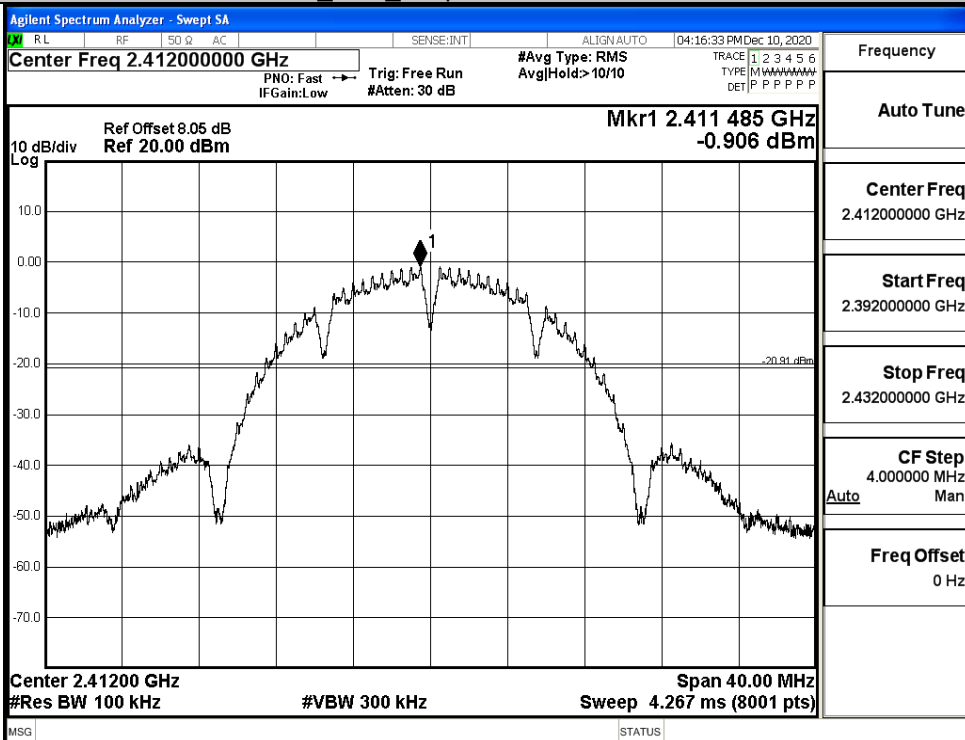


C.5 RF Conducted Spurious Emissions

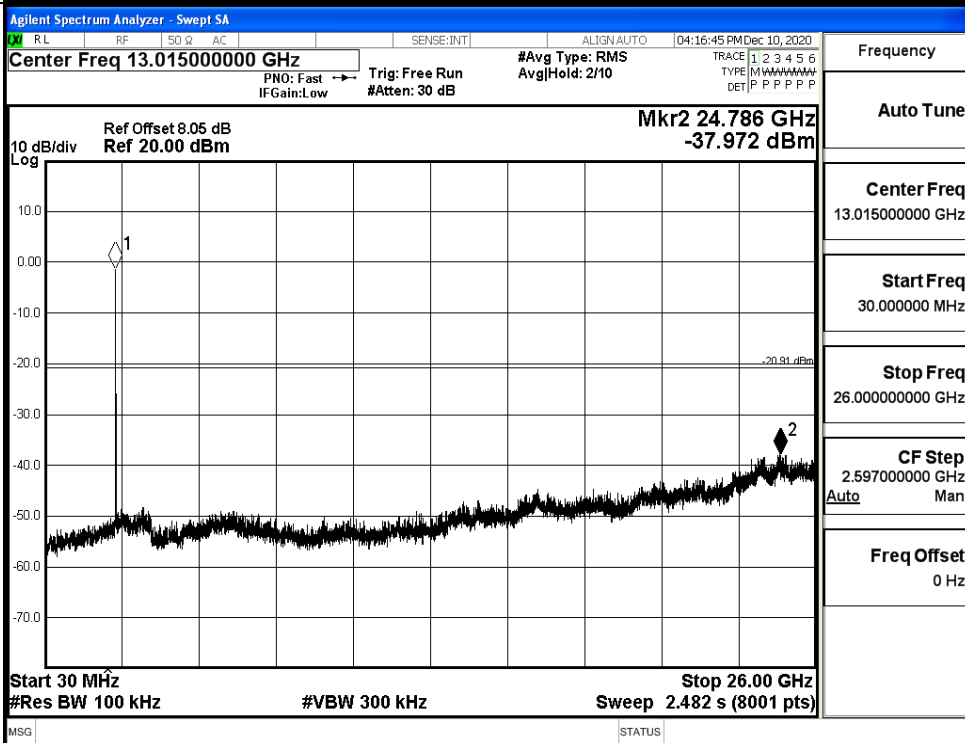
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-0.906	-37.972	-20.906	PASS
	MCH	-0.569	-37.696	-20.569	PASS
	HCH	-0.978	-36.168	-20.978	PASS
11G	LCH	-9.962	-37.549	-29.962	PASS
	MCH	-9.582	-37.793	-29.582	PASS
	HCH	-9.895	-38.004	-29.895	PASS
11N20 SISO	LCH	-9.608	-38.368	-29.608	PASS
	MCH	-9.209	-38.161	-29.209	PASS
	HCH	-9.62	-38.123	-29.620	PASS
11N40 SISO	LCH	-13.787	-37.839	-33.787	PASS
	MCH	-13.748	-37.478	-33.748	PASS
	HCH	-13.741	-37.996	-33.741	PASS

11B LCH Graphs

Pref/11B/LCH

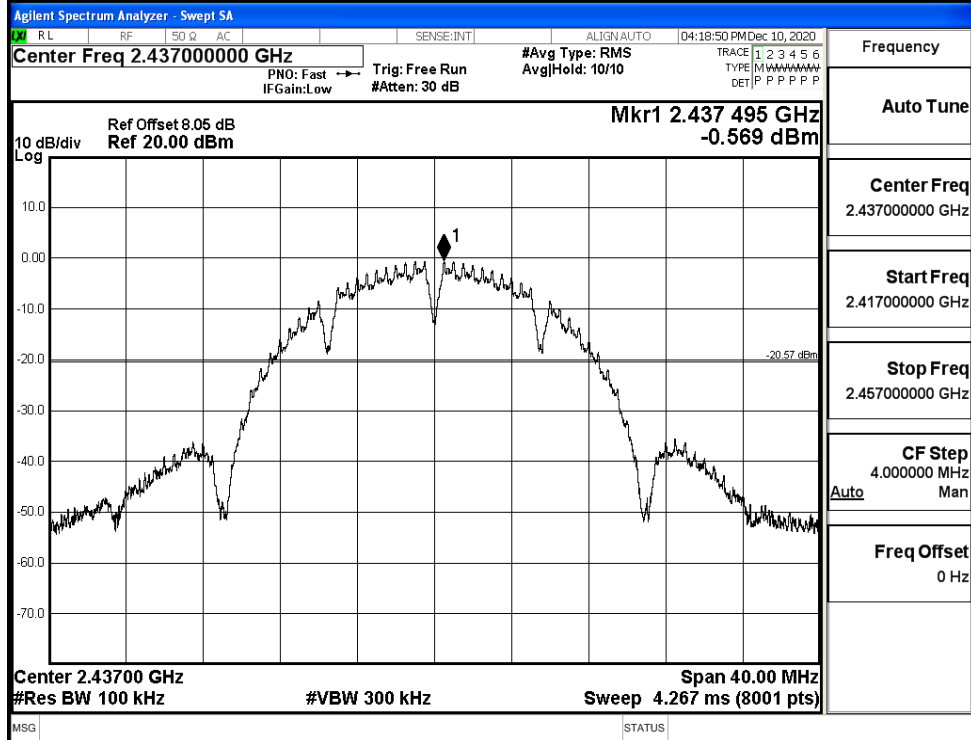


Puw/11B/LCH

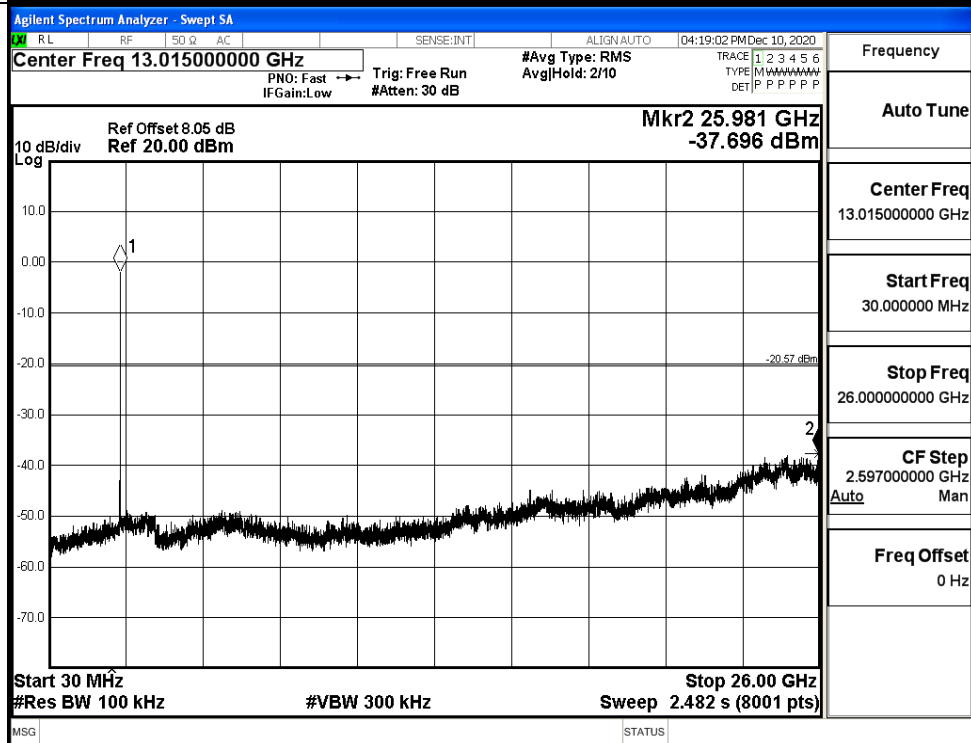


11B MCH Graphs

Pref/11B/MCH

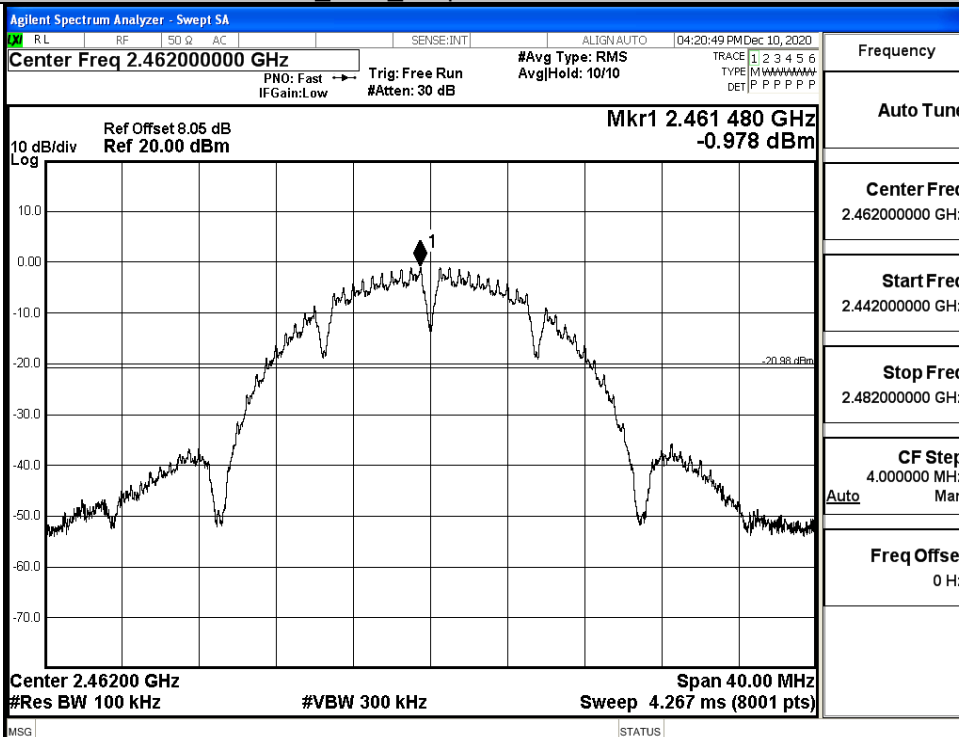


Puw/11B/MCH

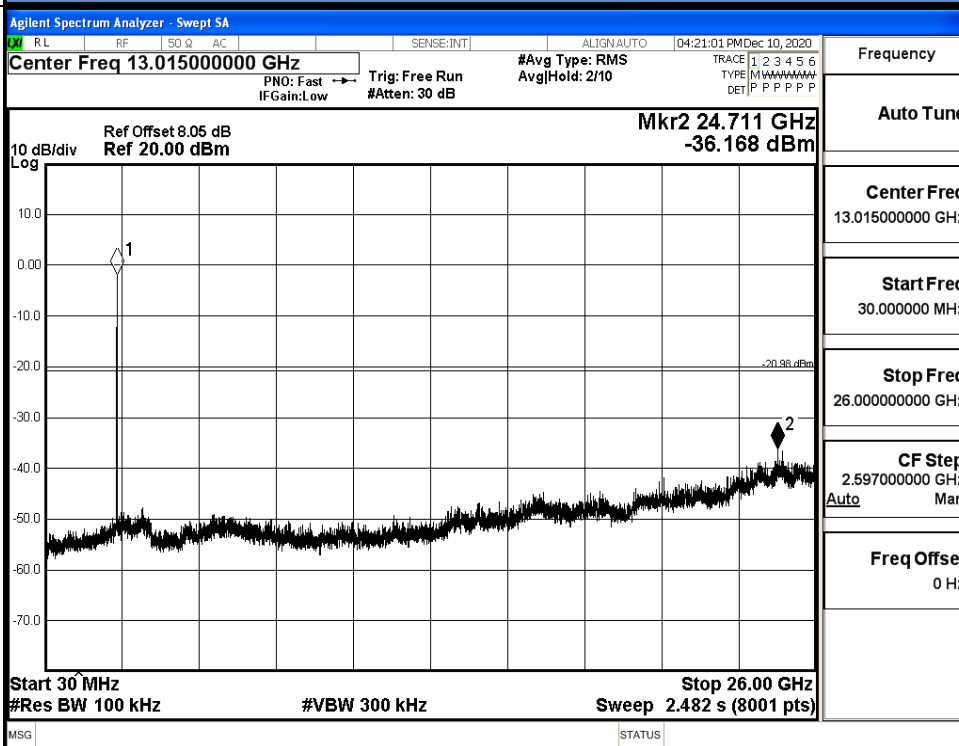


11B HCH Graphs

Pref/11B/HCH

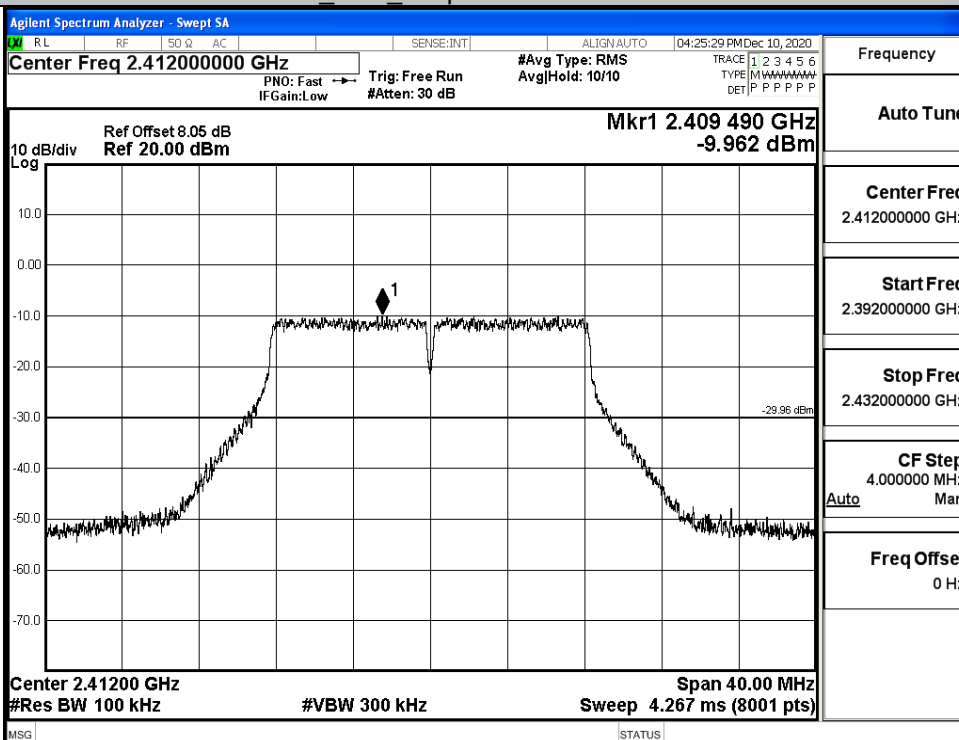


Puw/11B/HCH

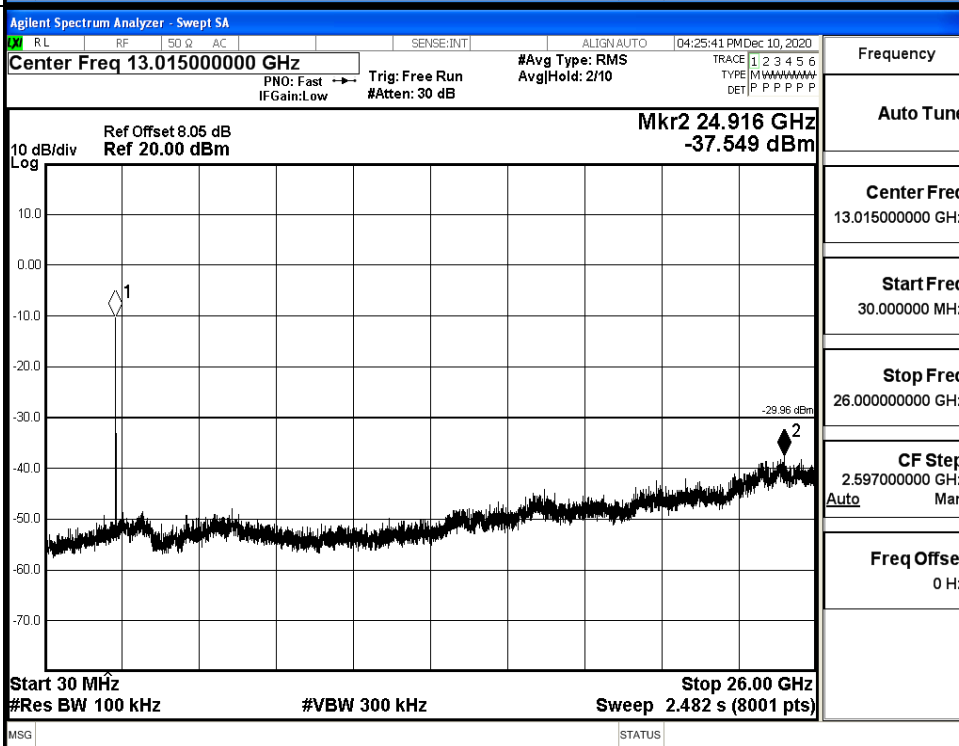


11G LCH Graphs

Pref/11G/LCH

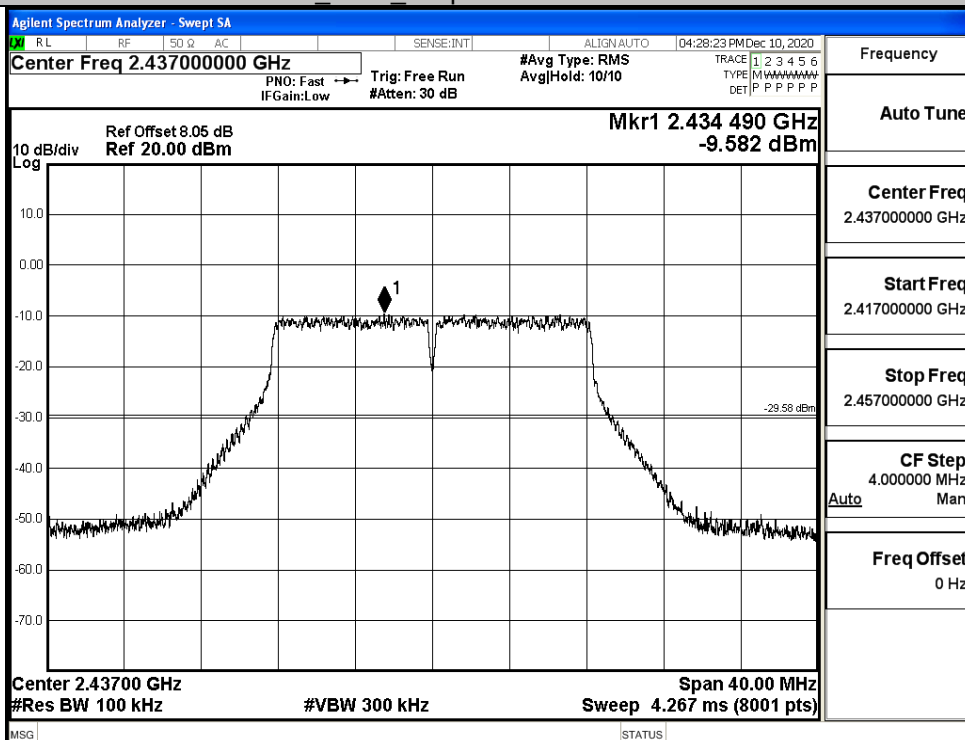


Puw/11G/LCH

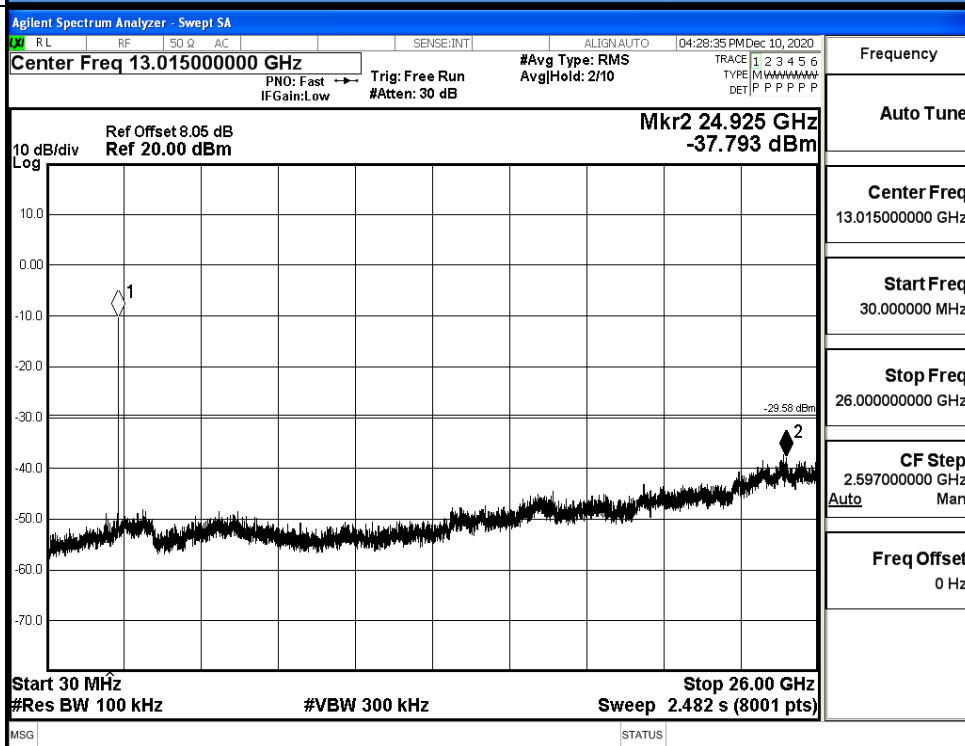


11G MCH Graphs

Pref/11G/MCH

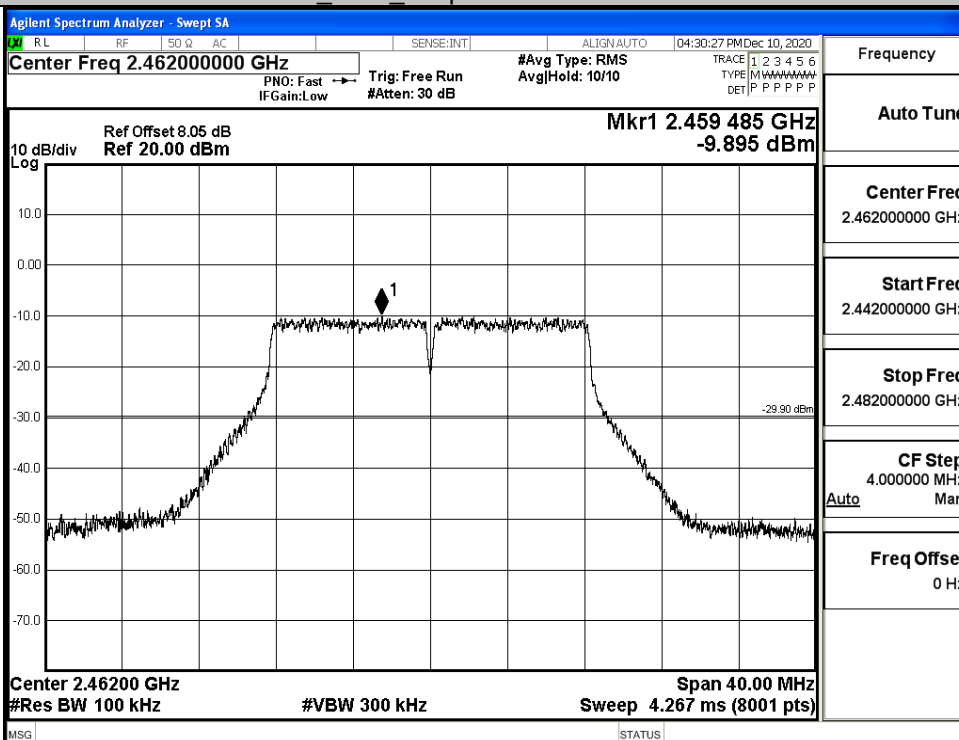


Puw/11G/MCH

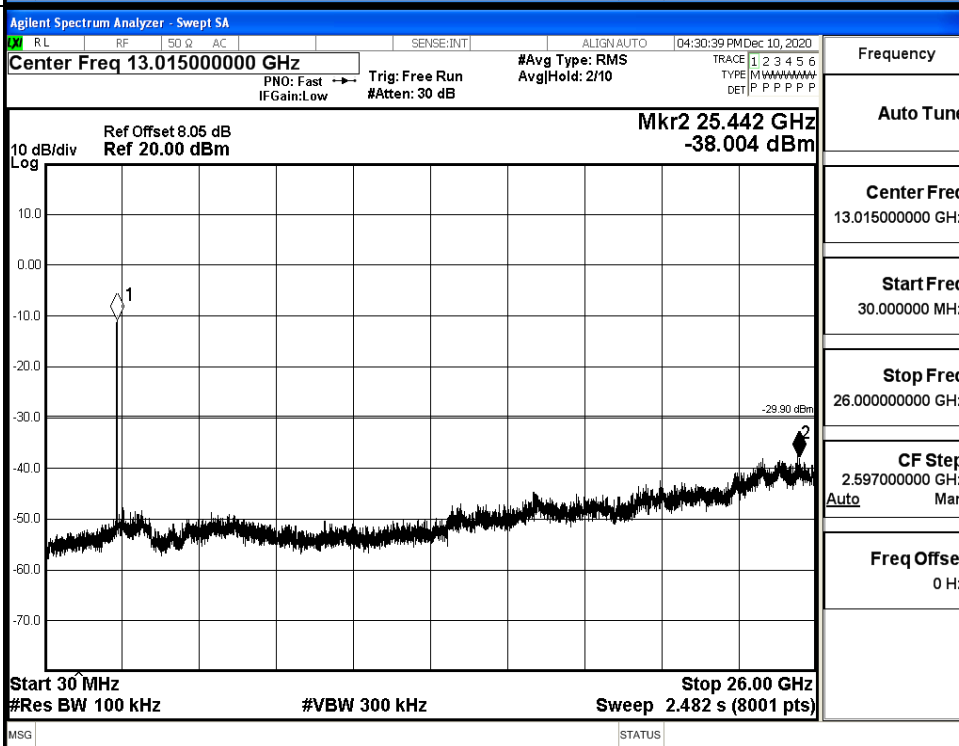


11G HCH Graphs

Pref/11G/HCH

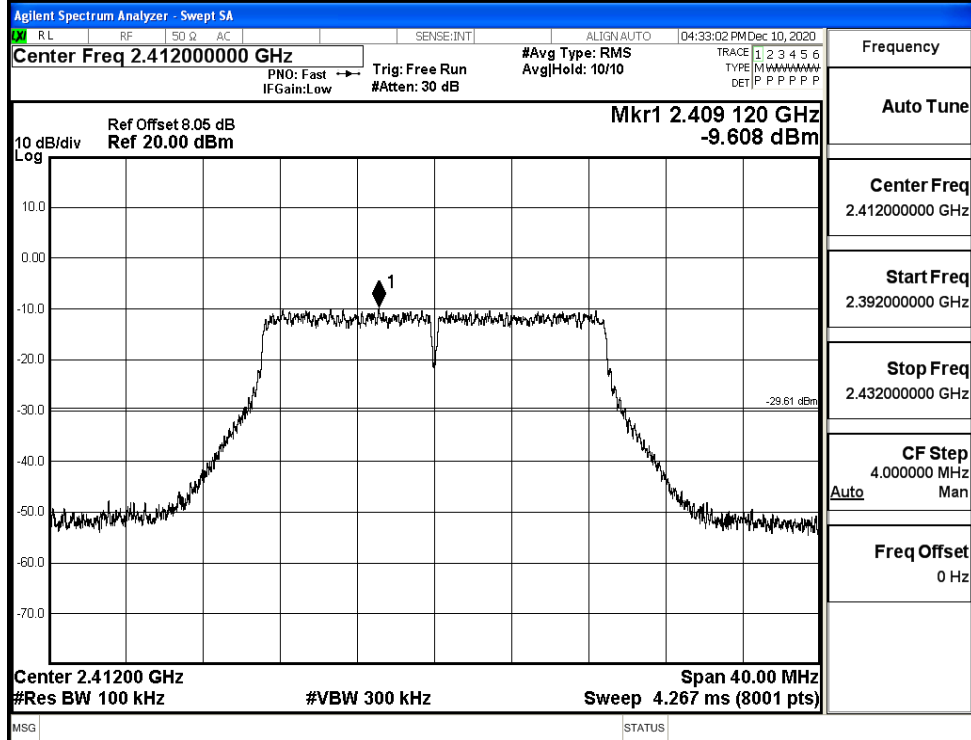


Puw/11G/HCH

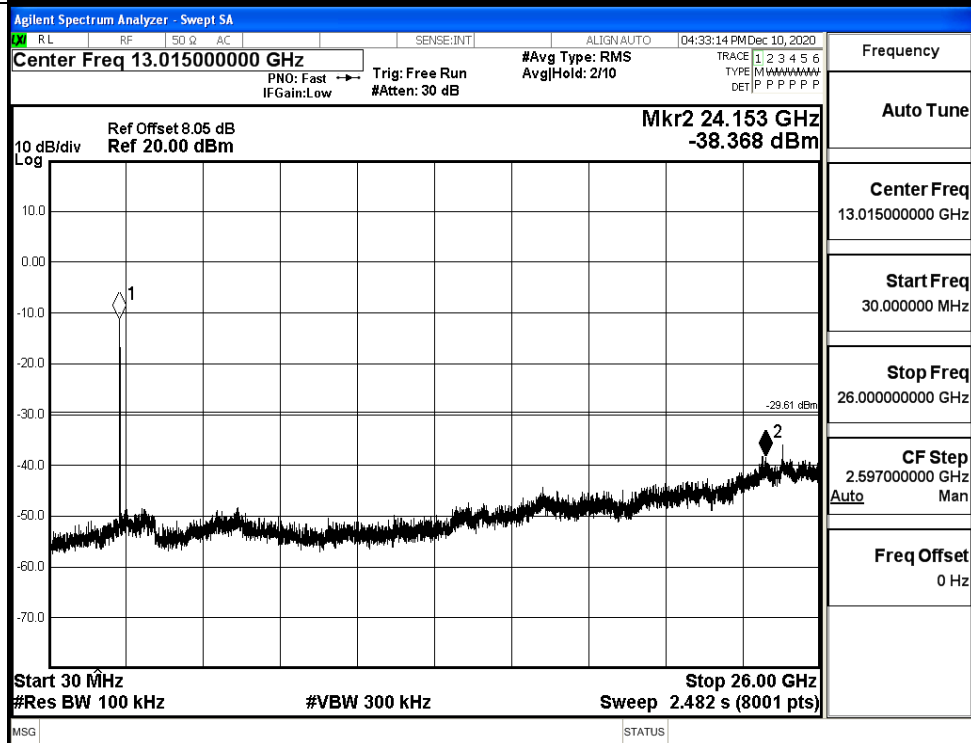


11N20SISO LCH Graphs

Pref/11N20SIS
O/LCH

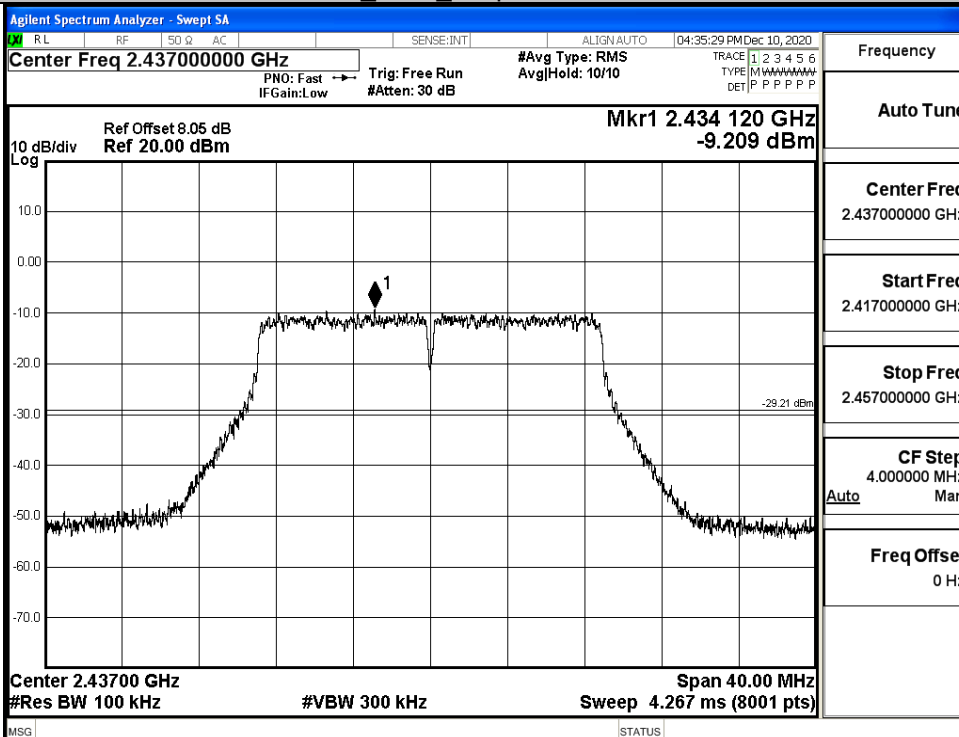


Puw/11N20
SISO/LCH

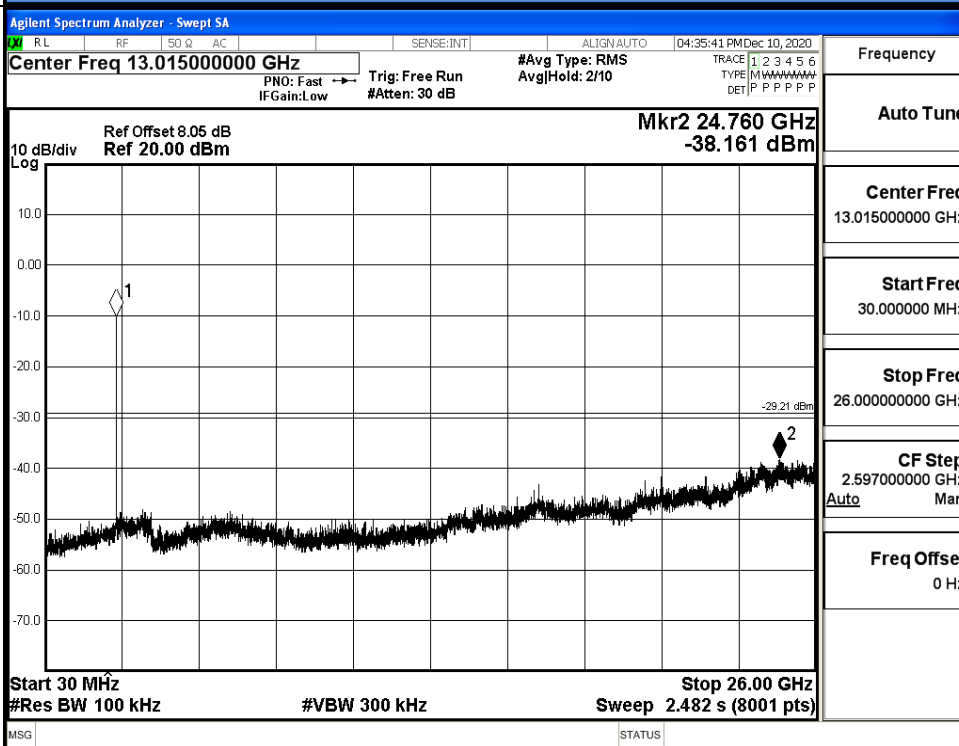


11N20SISO_MCH_Graphs

Pref/11N20
SISO/MCH

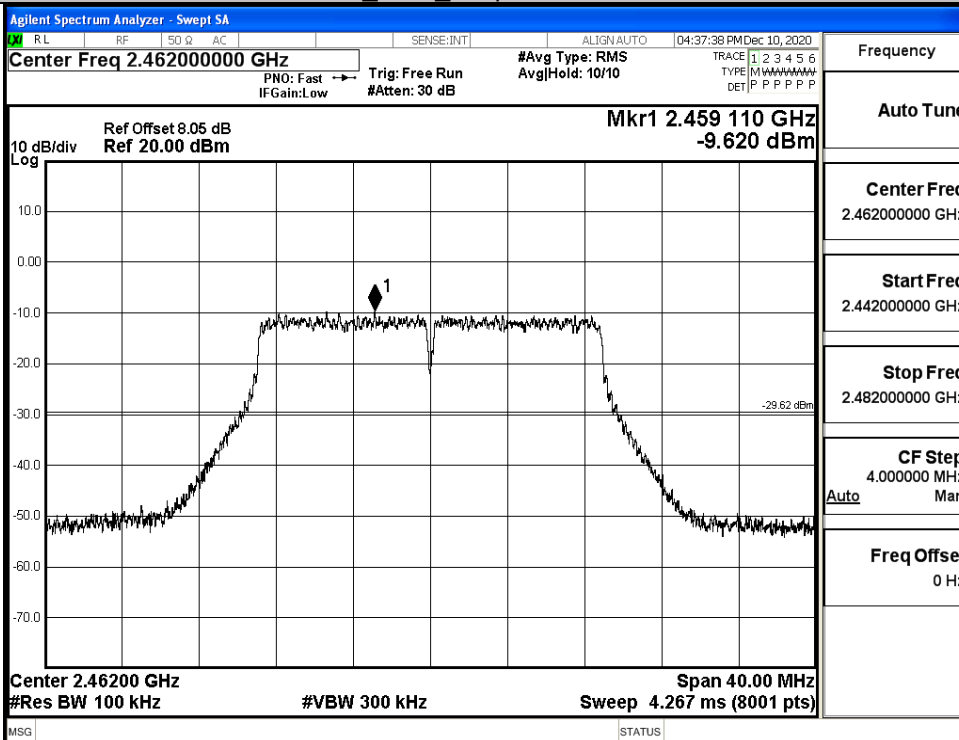


Puw/11N20
SISO/MCH

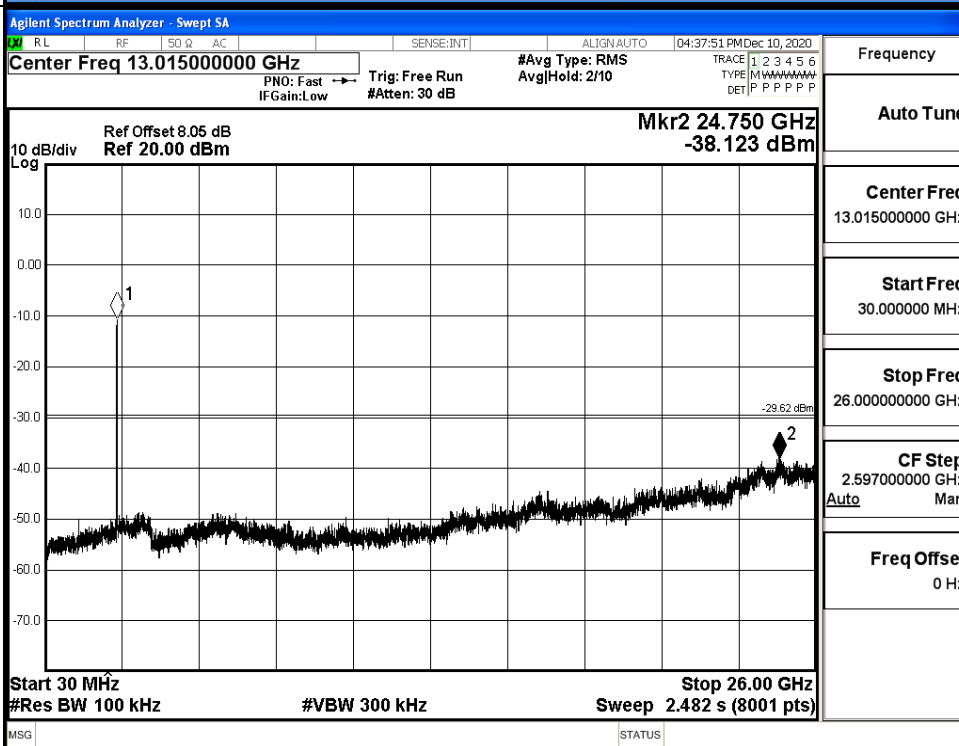


11N20SISO HCH Graphs

Pref/11N20
SISO/HCH

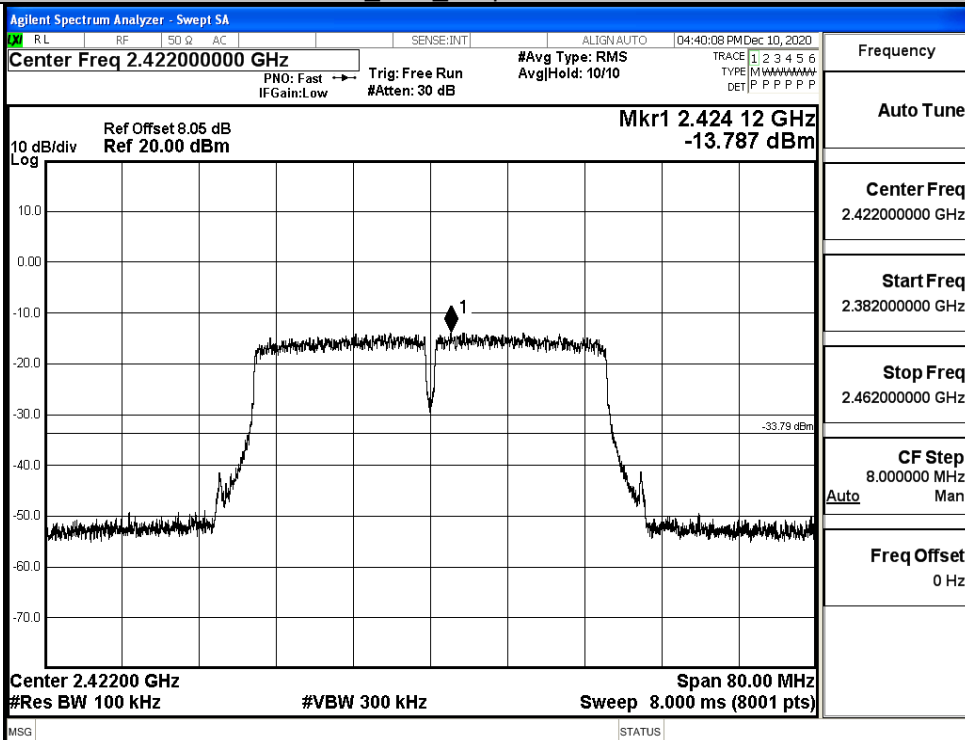


Puw/11N20
SISO/HCH

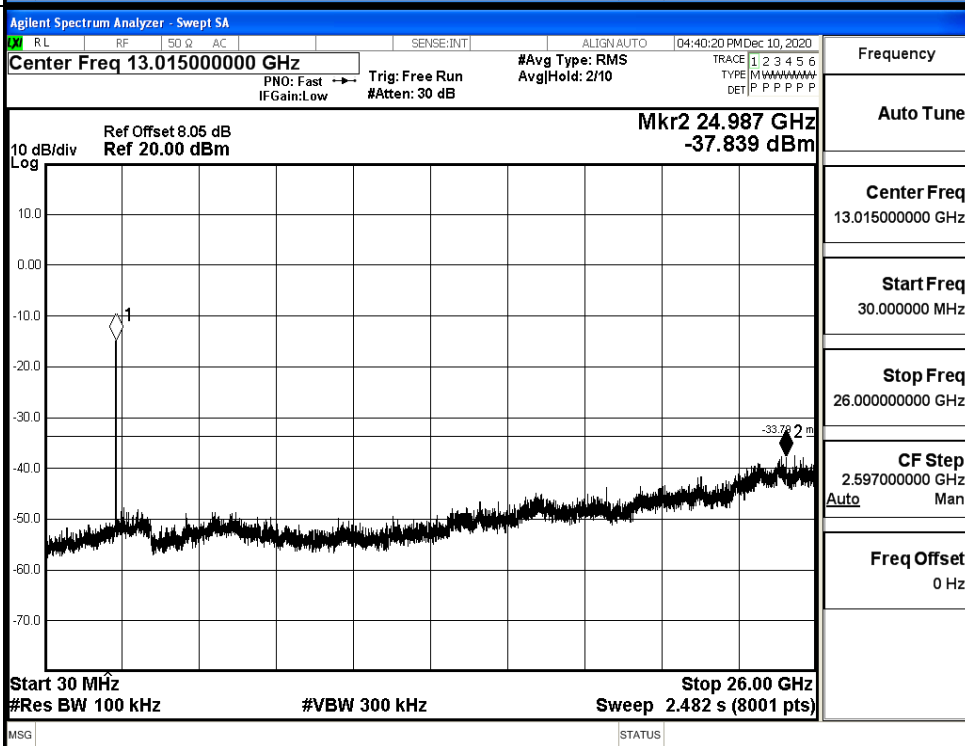


11N40SISO LCH Graphs

Pref/11N40
SISO/LCH

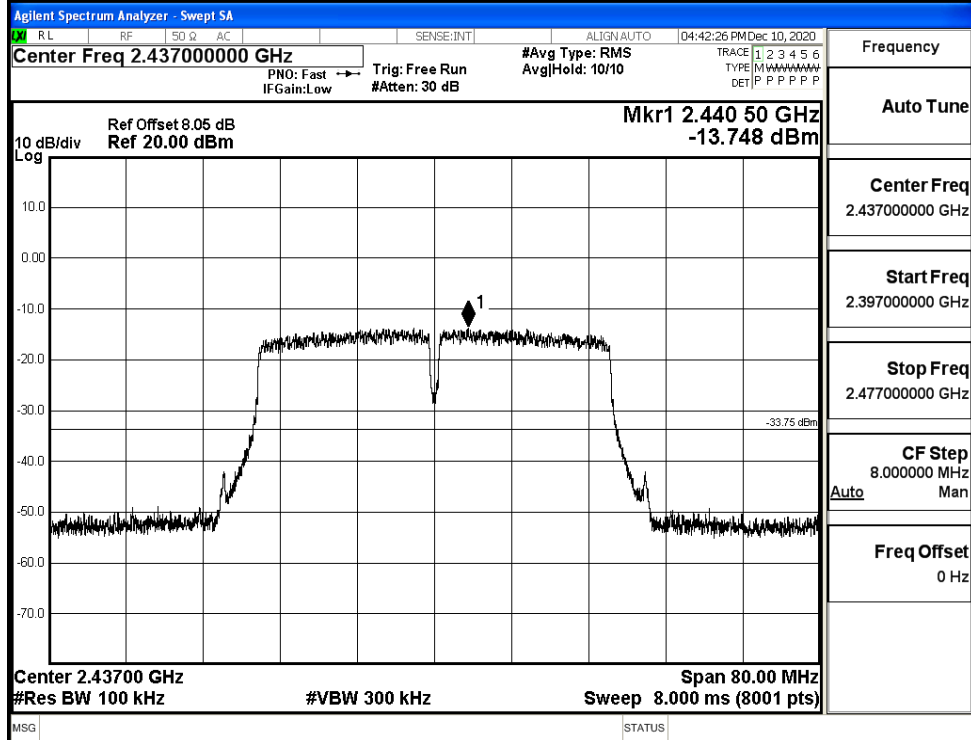


Puw/11N40
SISO/LCH

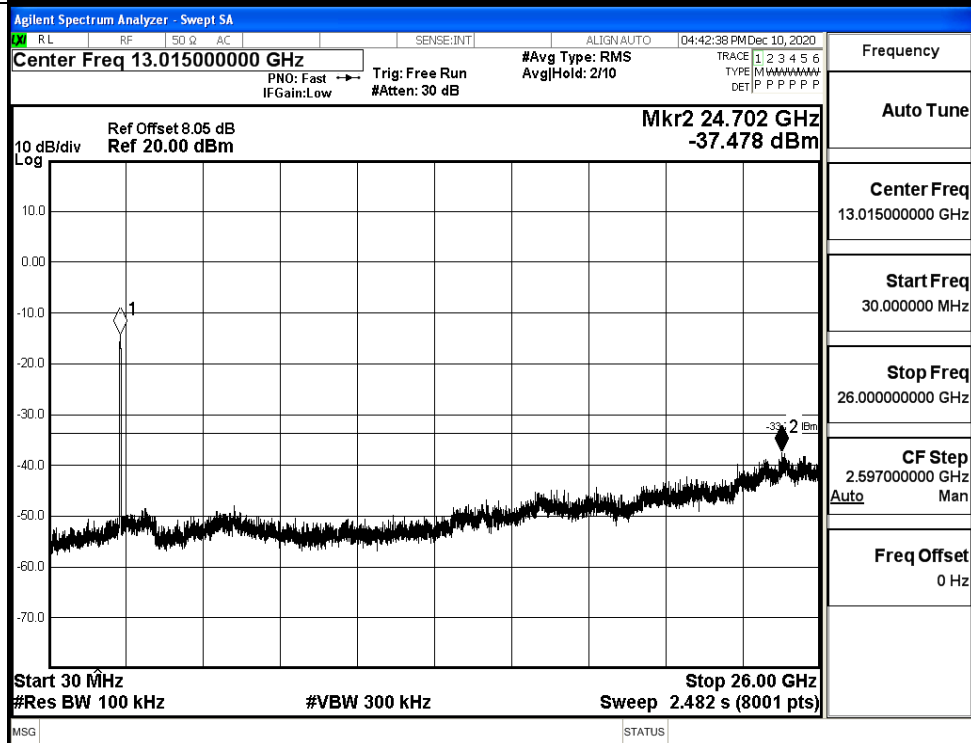


11N40SISO_MCH_Graphs

Pref/11N40
SISO/MCH

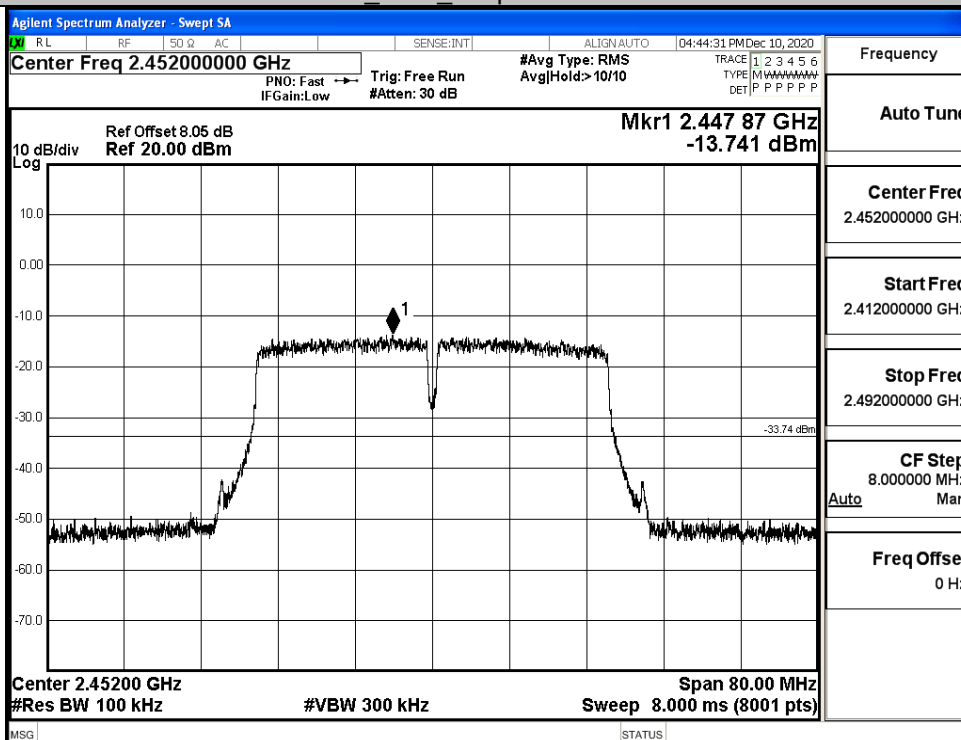


Puw/11N40
SISO/MCH

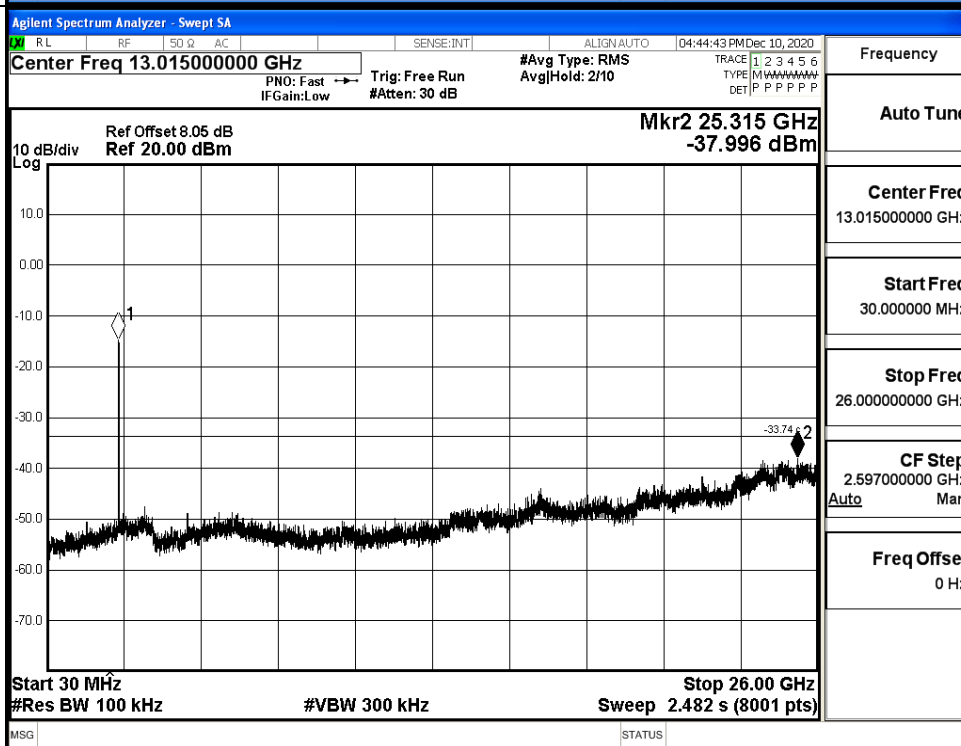


11N40SISO HCH Graphs

Pref/11N40
SISO/HCH

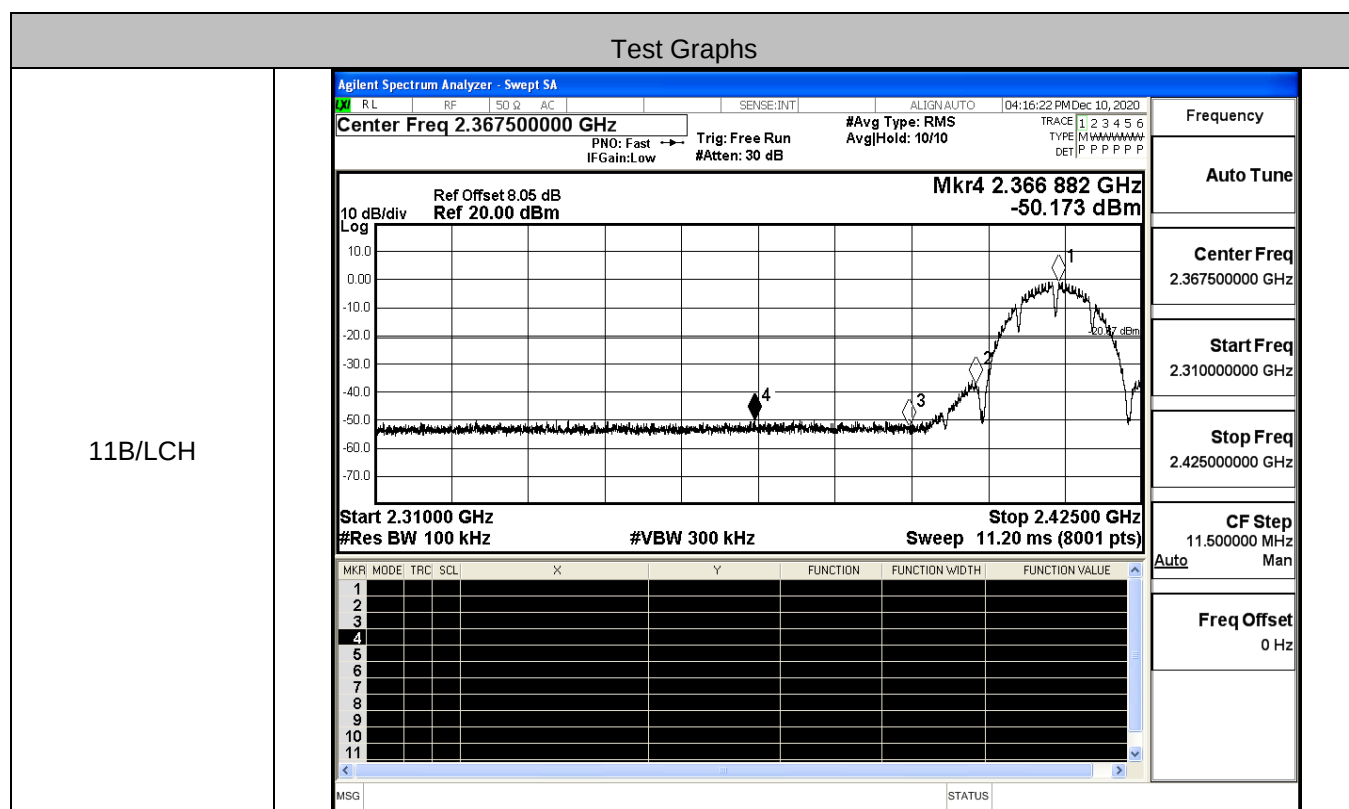


Puw/11N40
SISO/HCH

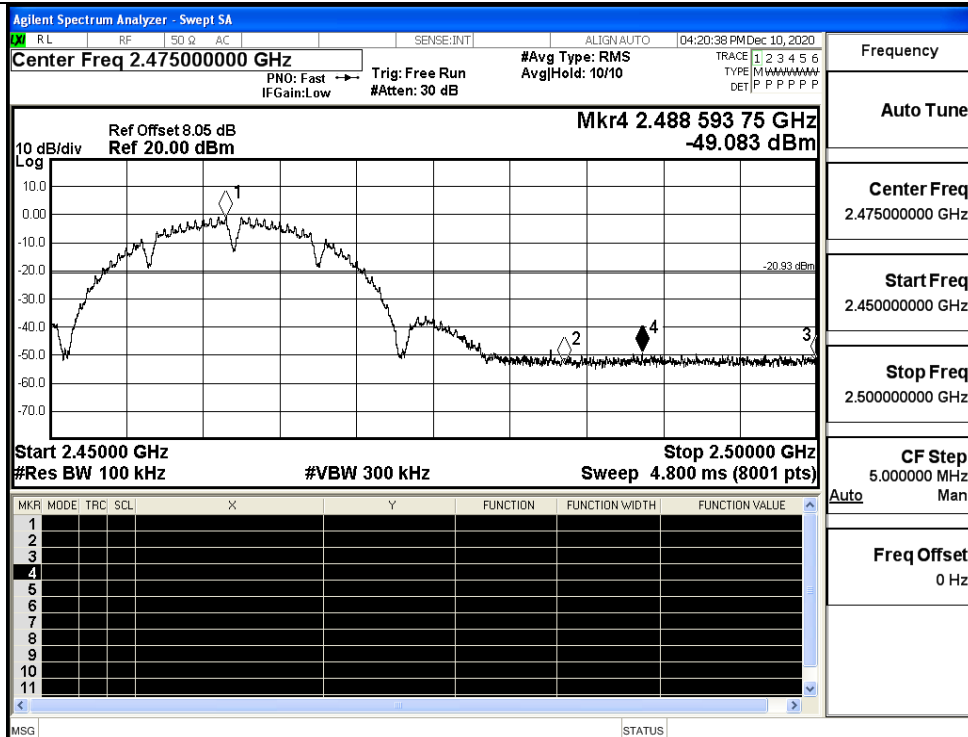


C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-0.874	-50.173	-20.87	PASS
	HCH	-0.928	-49.083	-20.93	PASS
11G	LCH	-10.129	-49.699	-30.13	PASS
	HCH	-9.897	-49.200	-29.9	PASS
11N20SISO	LCH	-9.771	-50.036	-29.77	PASS
	HCH	-9.617	-49.412	-29.62	PASS
11N40SISO	LCH	-13.759	-49.345	-33.76	PASS
	HCH	-13.560	-49.718	-33.56	PASS



11B/HCH



Frequency

Auto Tune

Center Freq
2.475000000 GHz

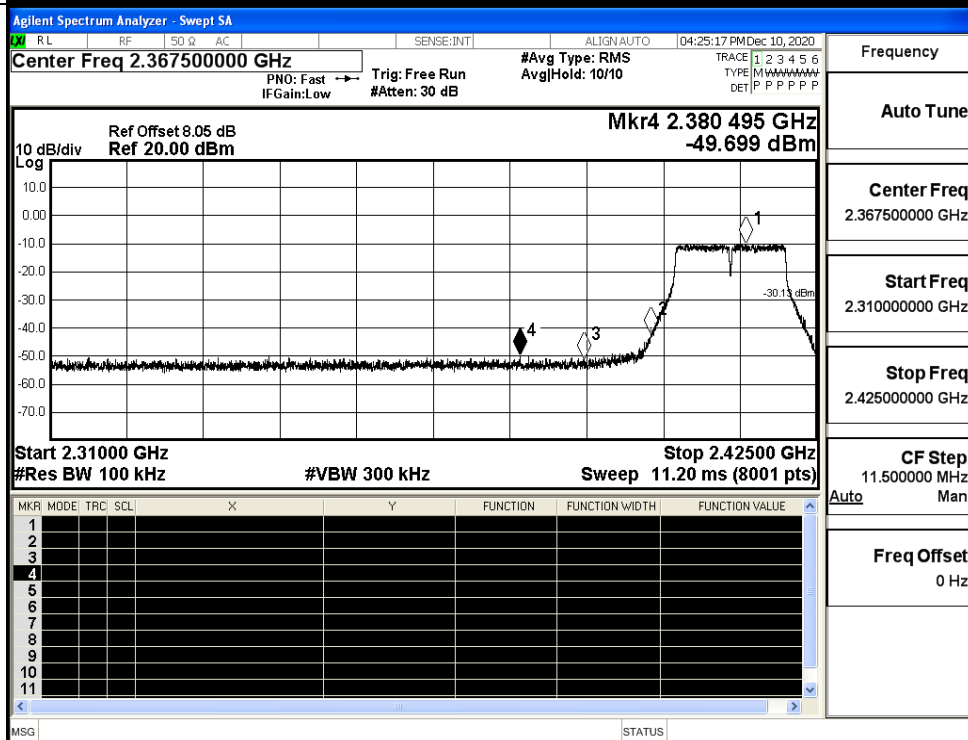
Start Freq
2.450000000 GHz

Stop Freq
2.500000000 GHz

CF Step
5.000000 MHz
Auto Man

Freq Offset
0 Hz

11G/LCH



Frequency

Auto Tune

Center Freq
2.367500000 GHz

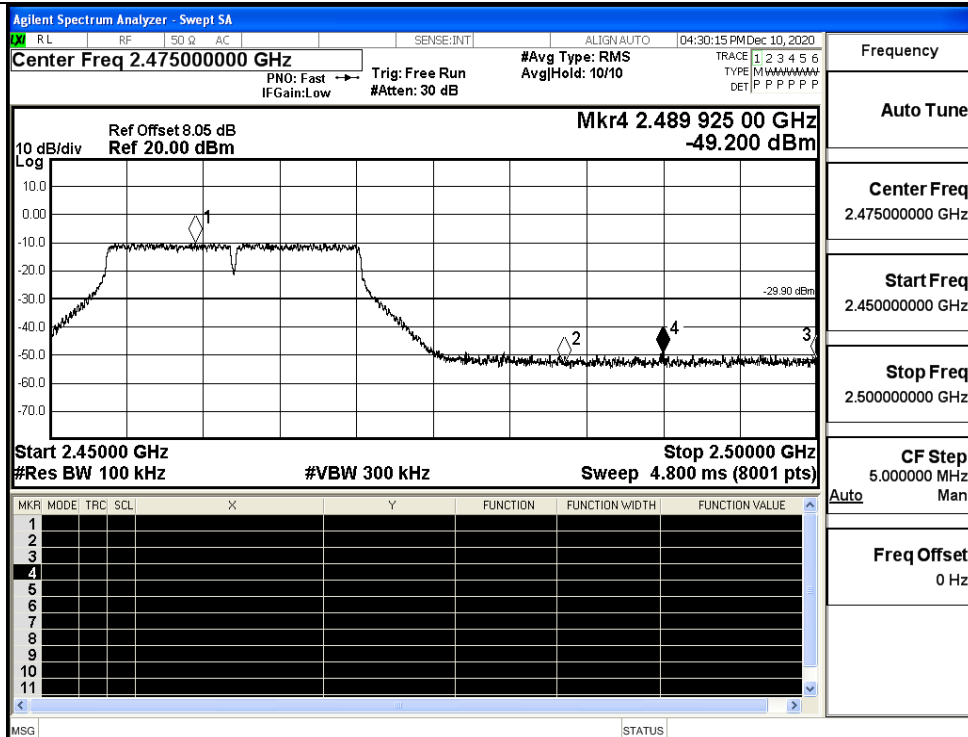
Start Freq
2.310000000 GHz

Stop Freq
2.425000000 GHz

CF Step
11.500000 MHz
Auto Man

Freq Offset
0 Hz

11G/HCH



Frequency

Auto Tune

Center Freq
2.475000000 GHz

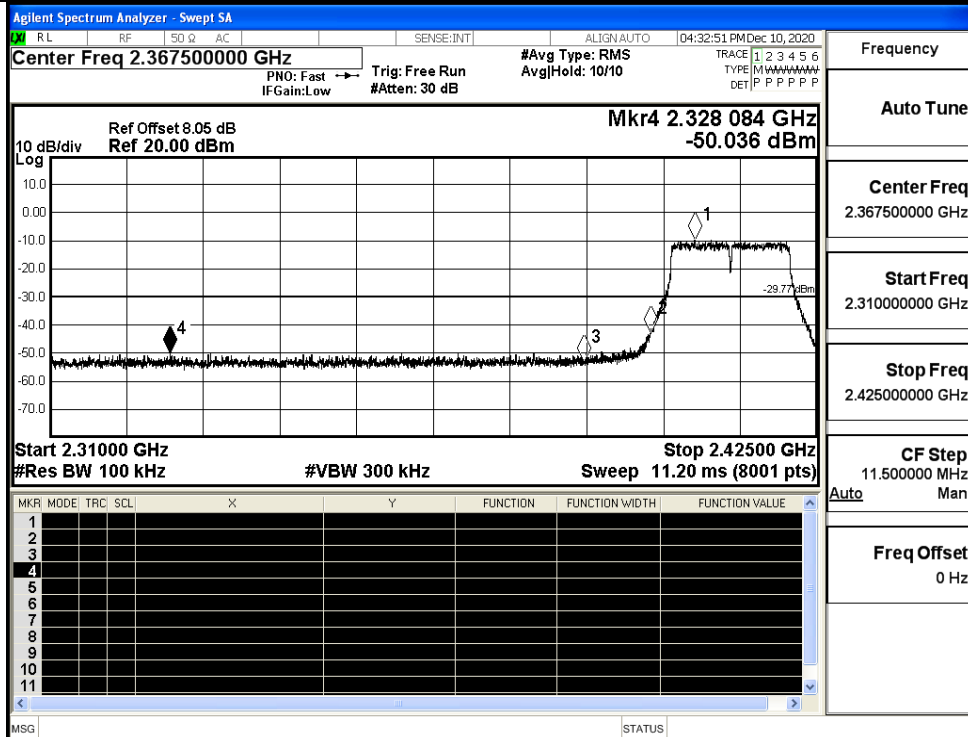
Start Freq
2.450000000 GHz

Stop Freq
2.500000000 GHz

CF Step
5.000000 MHz
Auto Man

Freq Offset
0 Hz

11N20SISO/LCH



Frequency

Auto Tune

Center Freq
2.367500000 GHz

Start Freq
2.310000000 GHz

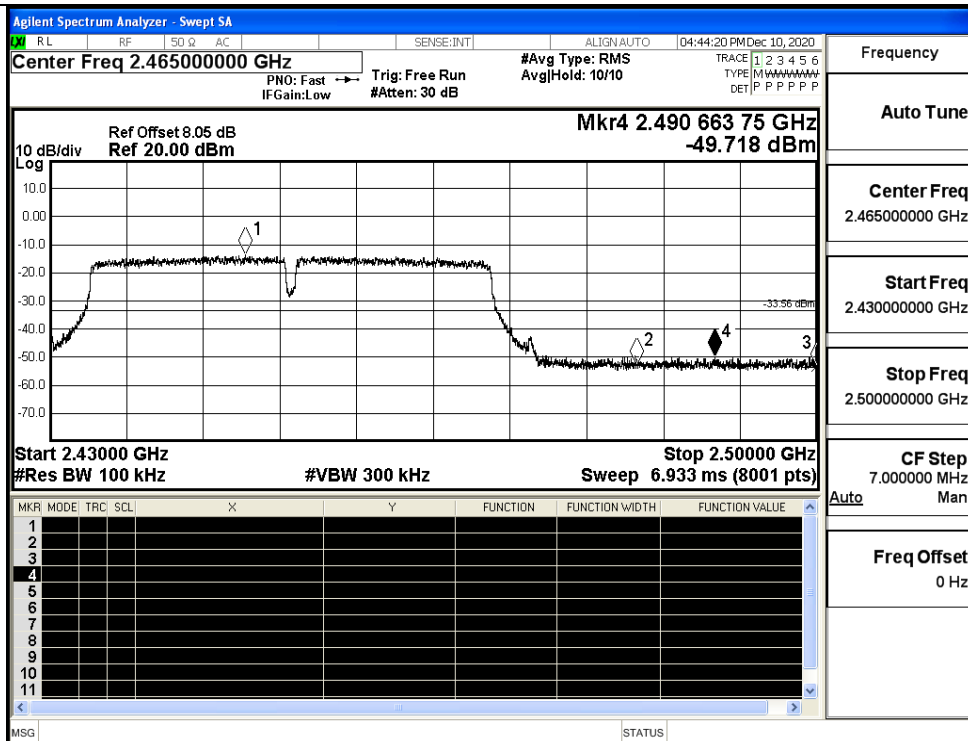
Stop Freq
2.425000000 GHz

CF Step
11.500000 MHz
Auto Man

Freq Offset
0 Hz

11N20SISO/HCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:37:27 PM Dec 10, 2020 Center Freq 2.475000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS Avg Hold: 10/10 TRACE 1 2 3 4 5 6 TYPE [M] [W] [A] [V] [P] [S] [D] [F] [C] [B] [E] [L] [I] [O] [N] [T] [R] [S] [T] [U] [V] [X] [Y] [Z] [A] [B] [C] [D] [E] [F] [G] [H] [I] [J] [K] [L] [M] [N] [O] [P] [Q] [R] [S] [T] [U] [V] [W] [X] [Y] [Z] [A] [B] [C] [D] [E] [F] [G] [H] [I] [J] [K] [L] [M] [N] [O] [P] [Q] [R] [S] [T] [U] [V] [W] [X] [Y] [Z] [A] [B] [C] [D] [E] [F] [G] [H] [I] [J] [K] [L] [M] [N] [O] [P] [Q] [R] [S] [T] [U] [V] [W] [X] [Y] [Z] [A] [B] [C] [D] [E] [F] [G] [H] [I] [J] [K] [L] [M] [N] [O] [P] [Q] [R] [S] [T] [U] [V] [W] [X] [Y] [Z] [A] [B] [C] [D] [E] [F] [G] [H] [I] [J] [K] [L] [M] [N] [O] [P] [Q] [R] [S] [T] [U] [V] [W] [X] [Y] [Z] [A] [B] [C] [D] [E] [F] [G] [H] [I] [J] [K] [L] [M] [N] [O] [P] [Q] [R] [S] [T] [U] [V] [W] [X] [Y] [Z] [A] [B] [C] [D] [E] [F] [G] [H] [I] 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[D] [E] [F] [G] [H] [I] [J] [K] [L] [M] [N] [O] [P] [Q] [R] [S] [T] [U] [V] [
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11N40SISO/HCH

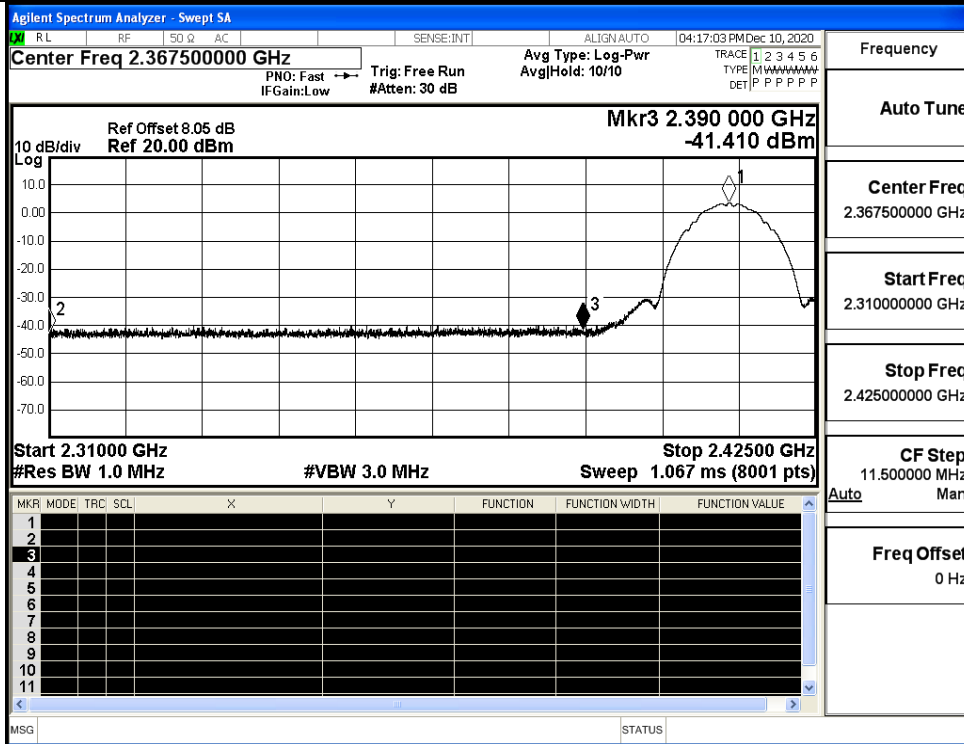


C.7 Restrict-band band-edge measurements

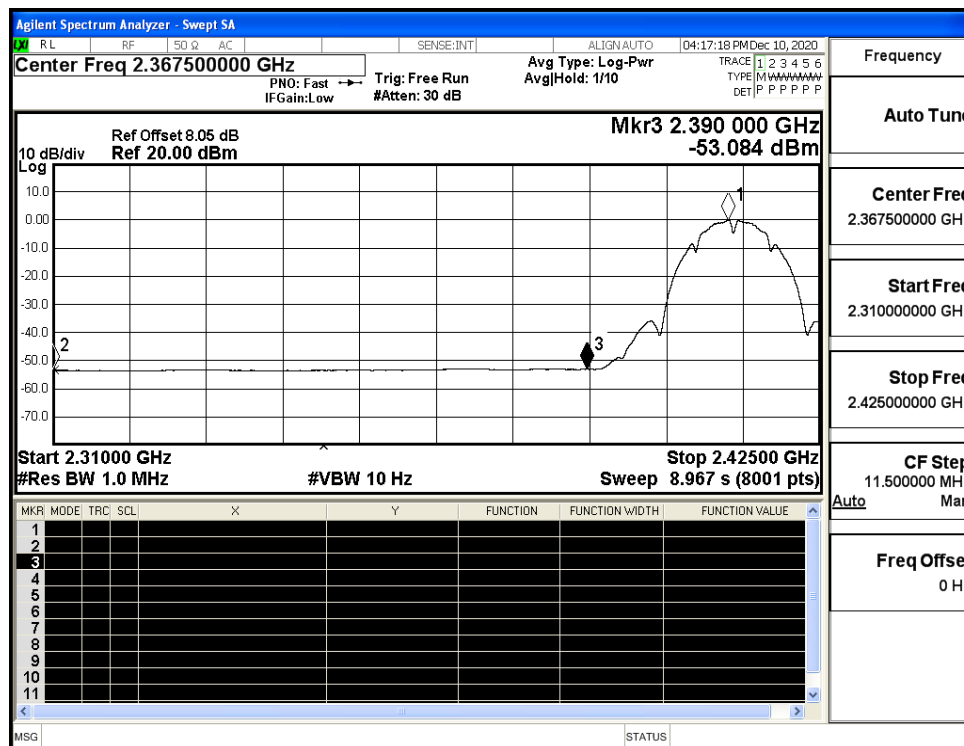
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-43.18	2.0	0	54.08	PEAK	74	PASS
	2412	Ant1	2310.0	-53.46	2.0	0	43.80	AV	54	PASS
	2412	Ant1	2390.0	-41.41	2.0	0	55.85	PEAK	74	PASS
	2412	Ant1	2390.0	-53.08	2.0	0	44.18	AV	54	PASS
	2462	Ant1	2483.5	-42.43	2.0	0	54.83	PEAK	74	PASS
	2462	Ant1	2483.5	-52.73	2.0	0	44.53	AV	54	PASS
	2462	Ant1	2500.0	-43.13	2.0	0	54.13	PEAK	74	PASS
	2462	Ant1	2500.0	-52.31	2.0	0	44.95	AV	54	PASS
11G	2412	Ant1	2310.0	-42.82	2.0	0	54.44	PEAK	74	PASS
	2412	Ant1	2310.0	-53.63	2.0	0	43.63	AV	54	PASS
	2412	Ant1	2390.0	-43.16	2.0	0	54.10	PEAK	74	PASS
	2412	Ant1	2390.0	-53.05	2.0	0	44.21	AV	54	PASS
	2462	Ant1	2483.5	-43.09	2.0	0	54.17	PEAK	74	PASS
	2462	Ant1	2483.5	-52.72	2.0	0	44.54	AV	54	PASS
	2462	Ant1	2500.0	-41.82	2.0	0	55.44	PEAK	74	PASS
	2462	Ant1	2500.0	-52.62	2.0	0	44.64	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-42.44	2.0	0	54.82	PEAK	74	PASS
	2412	Ant1	2310.0	-53.61	2.0	0	43.65	AV	54	PASS
	2412	Ant1	2390.0	-41.84	2.0	0	55.42	PEAK	74	PASS
	2412	Ant1	2390.0	-52.82	2.0	0	44.44	AV	54	PASS
	2462	Ant1	2483.5	-42.49	2.0	0	54.77	PEAK	74	PASS
	2462	Ant1	2483.5	-52.65	2.0	0	44.61	AV	54	PASS
	2462	Ant1	2500.0	-41.48	2.0	0	55.78	PEAK	74	PASS
	2462	Ant1	2500.0	-52.64	2.0	0	44.62	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-42.43	2.0	0	54.83	PEAK	74	PASS
	2422	Ant1	2310.0	-53.65	2.0	0	43.61	AV	54	PASS

	2422	Ant1	2390.0	-42.42	2.0	0	54.84	PEAK	74	PASS
	2422	Ant1	2390.0	-52.79	2.0	0	44.47	AV	54	PASS
	2452	Ant1	2483.5	-42.55	2.0	0	54.71	PEAK	74	PASS
	2452	Ant1	2483.5	-52.73	2.0	0	44.53	AV	54	PASS
	2452	Ant1	2500.0	-41.87	2.0	0	55.39	PEAK	74	PASS
	2452	Ant1	2500.0	-52.70	2.0	0	44.56	AV	54	PASS

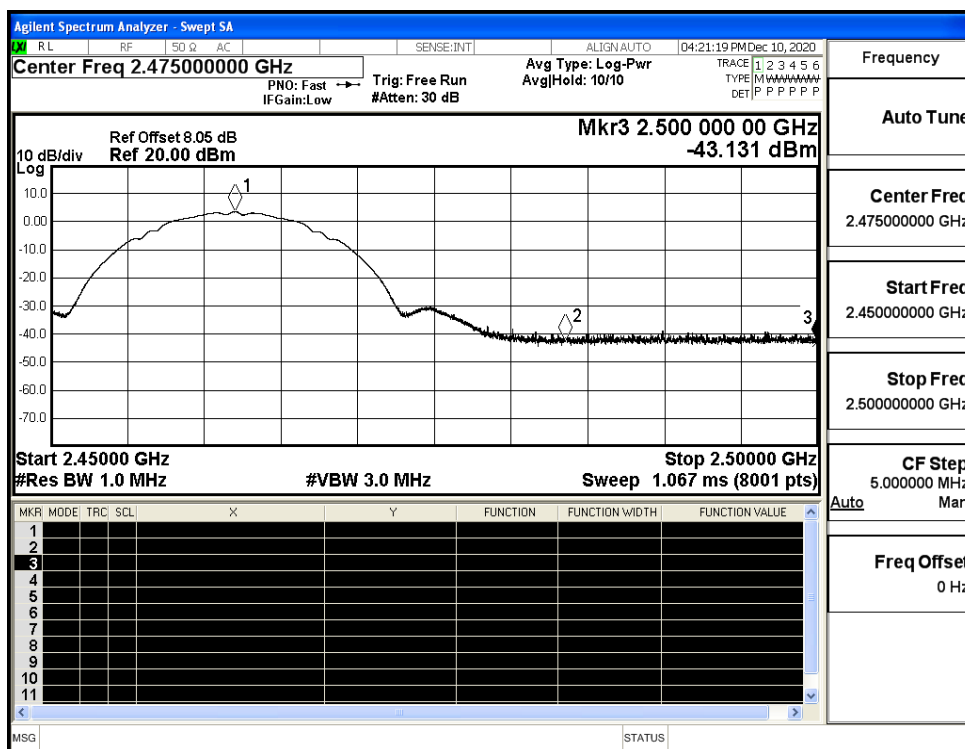
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



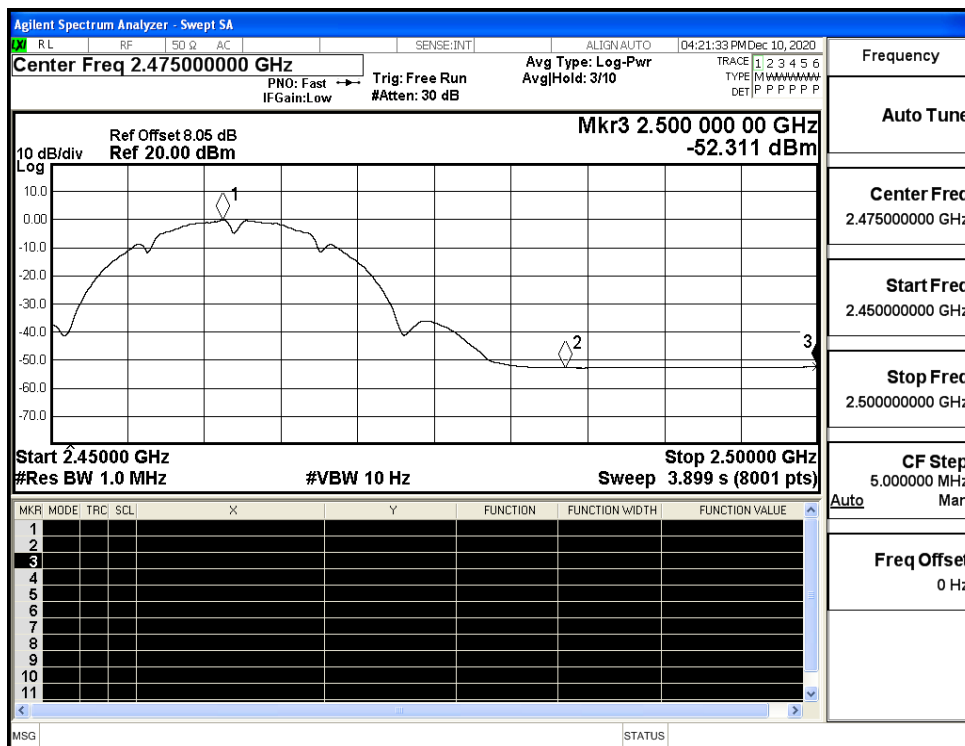
Restrict-band band-edge measurements_11B_2412_Ant1_AV



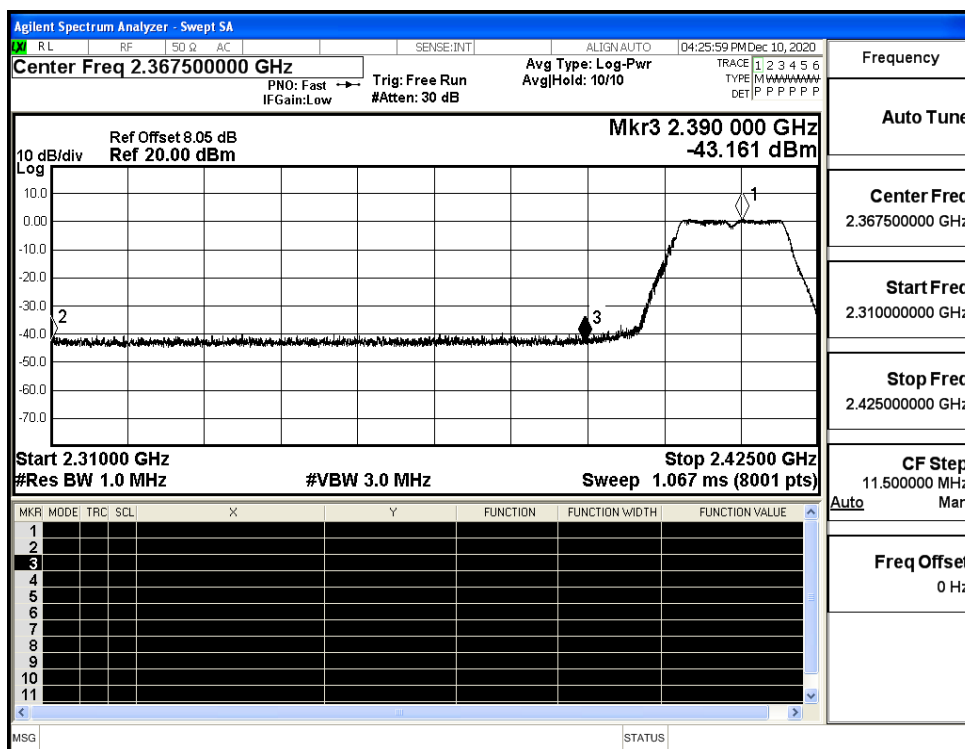
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



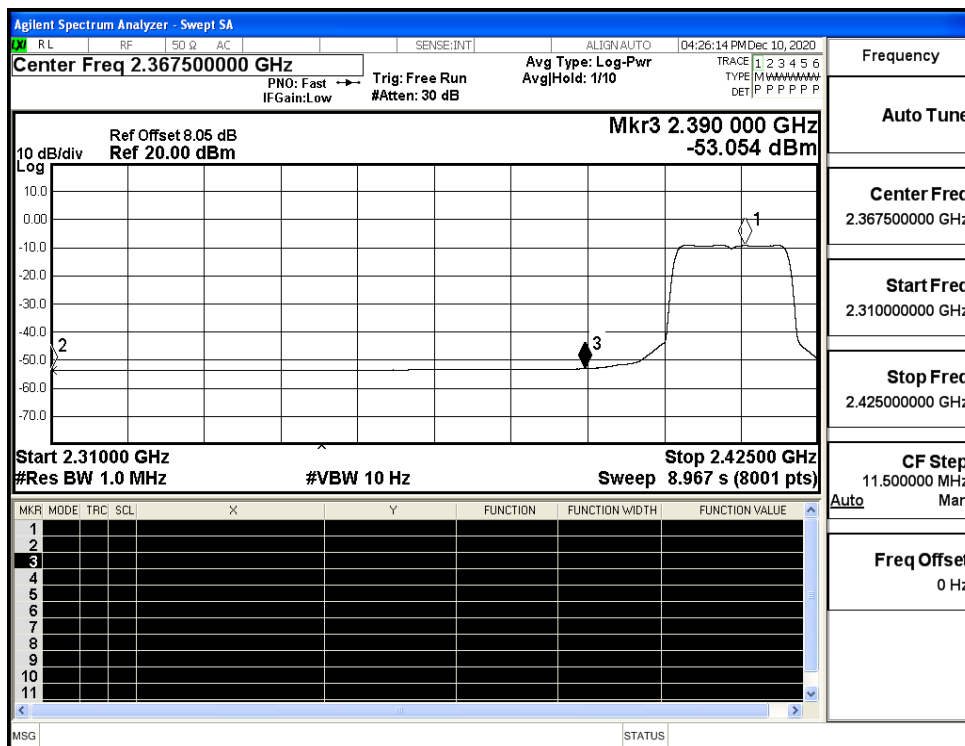
Restrict-band band-edge measurements_11B_2462_Ant1_AV



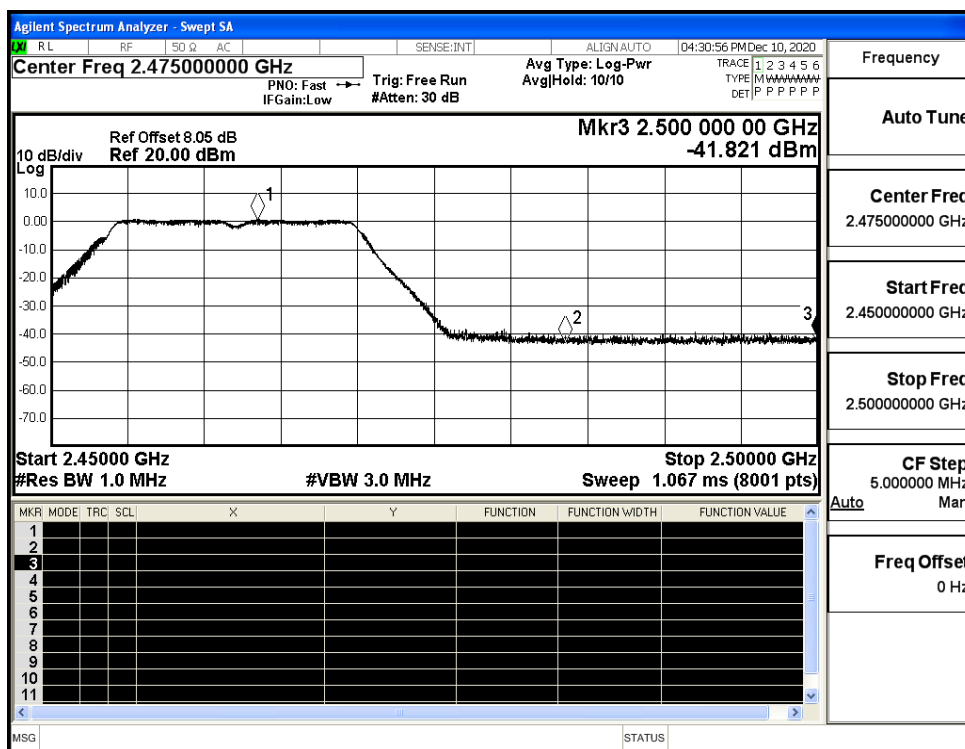
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



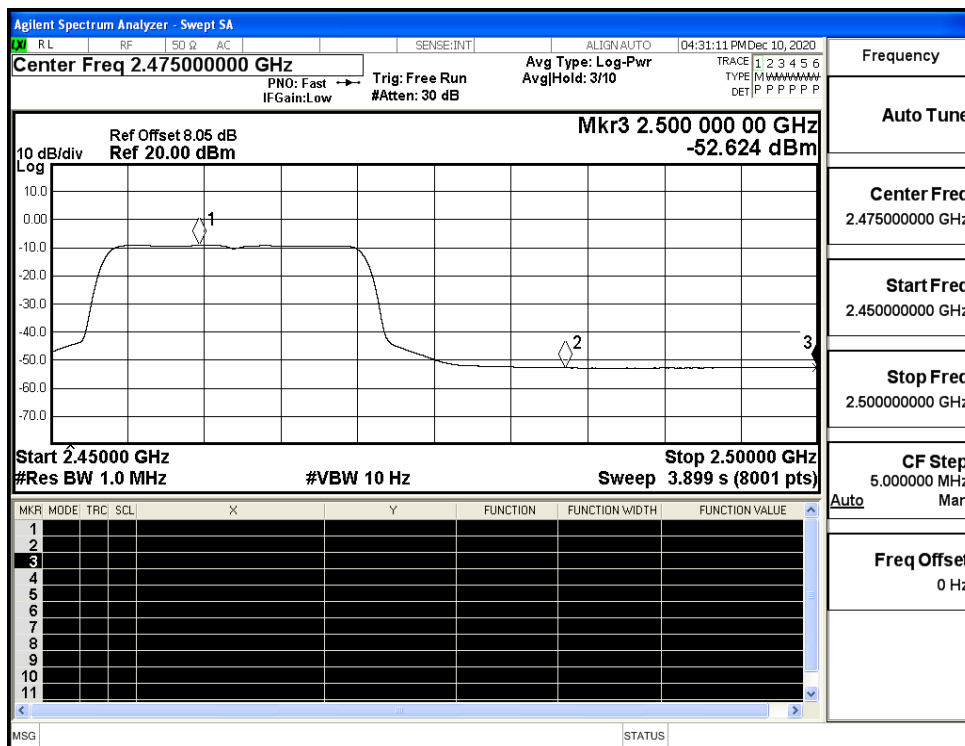
Restrict-band band-edge measurements_11G_2412_Ant1_AV



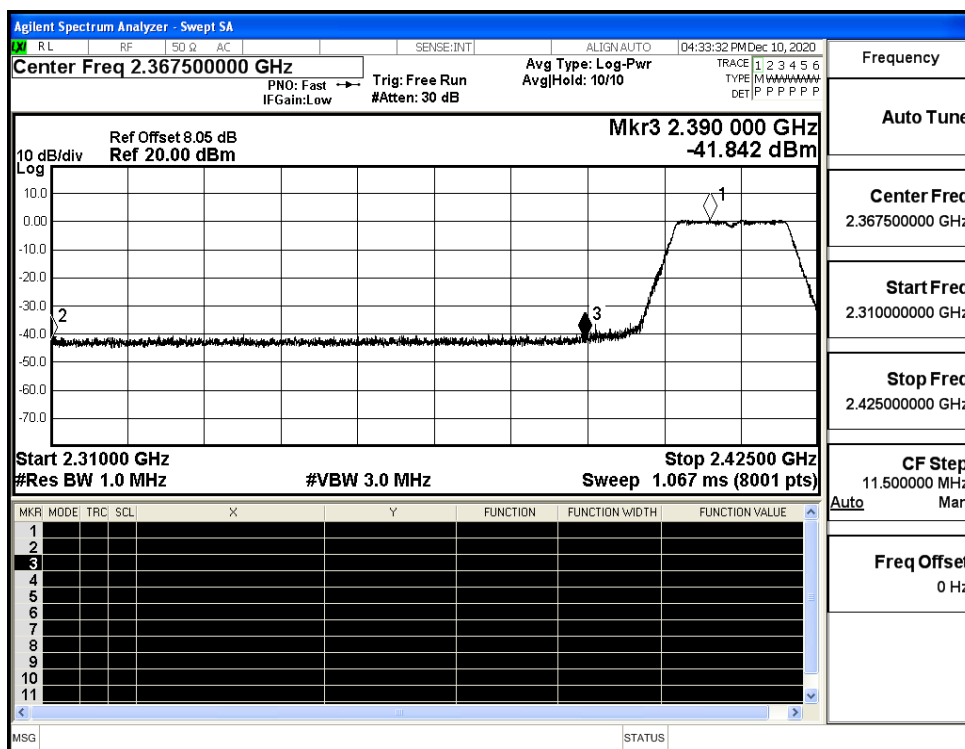
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



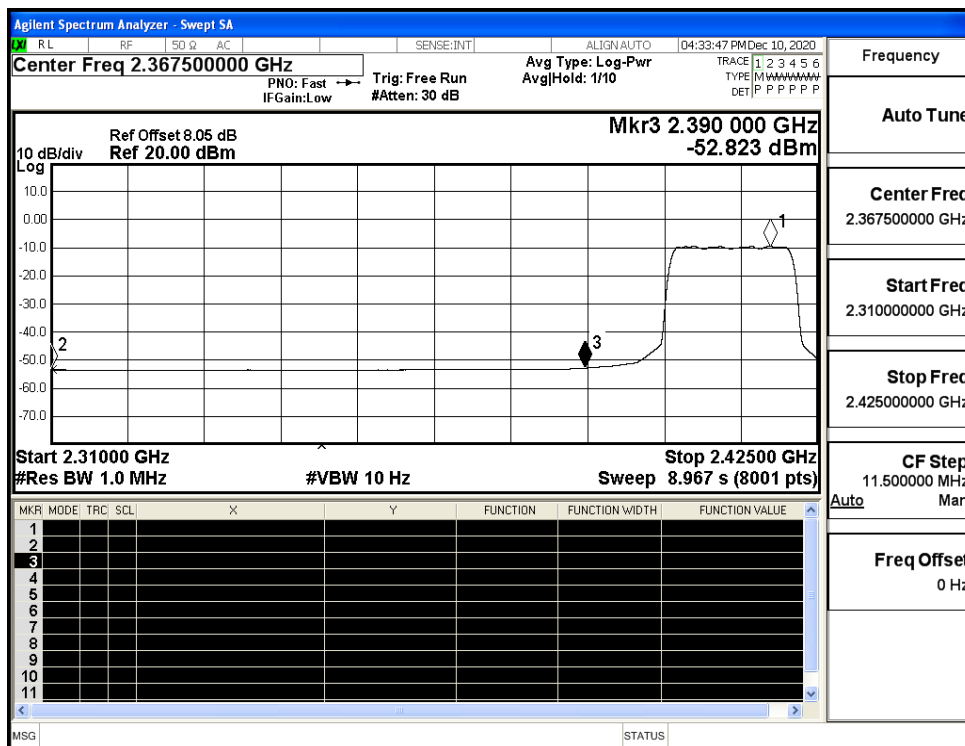
Restrict-band band-edge measurements_11G_2462_Ant1_AV



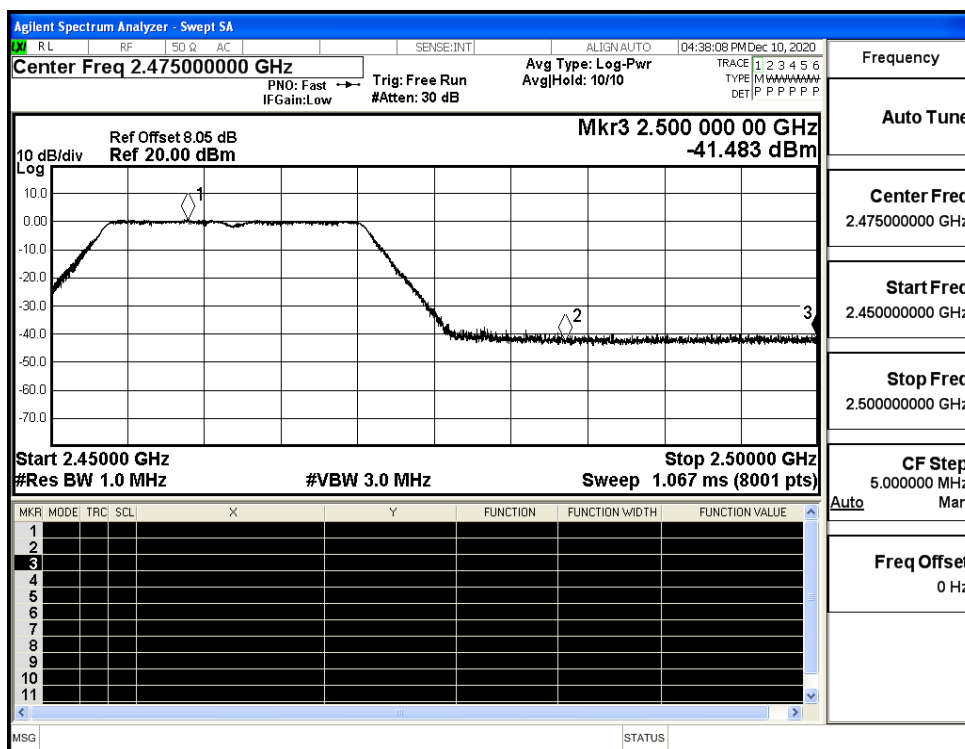
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



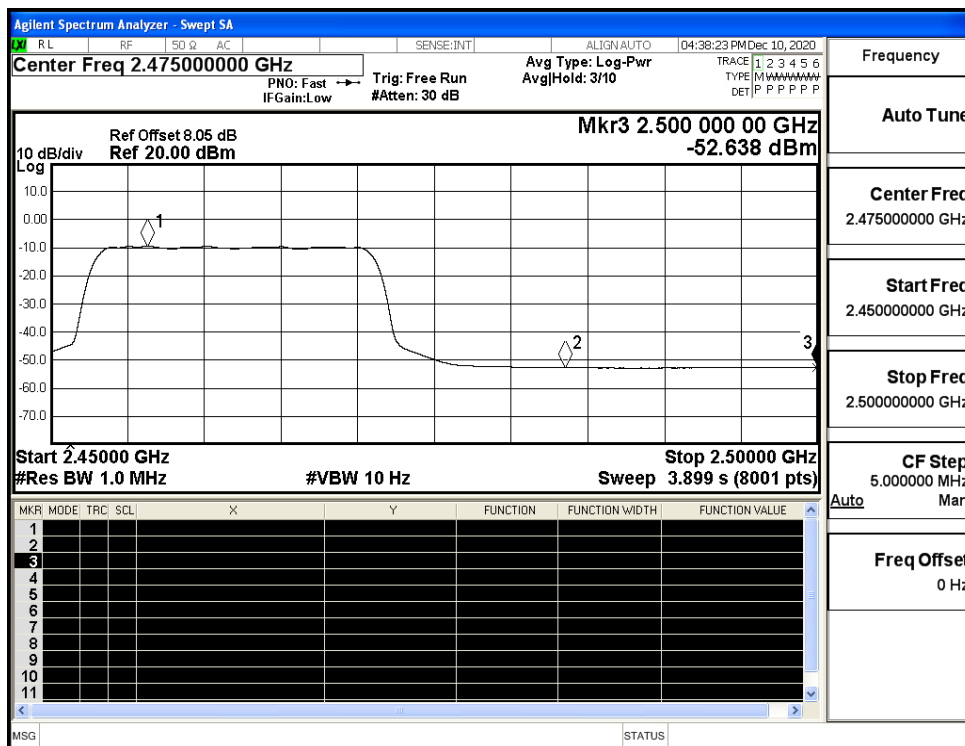
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



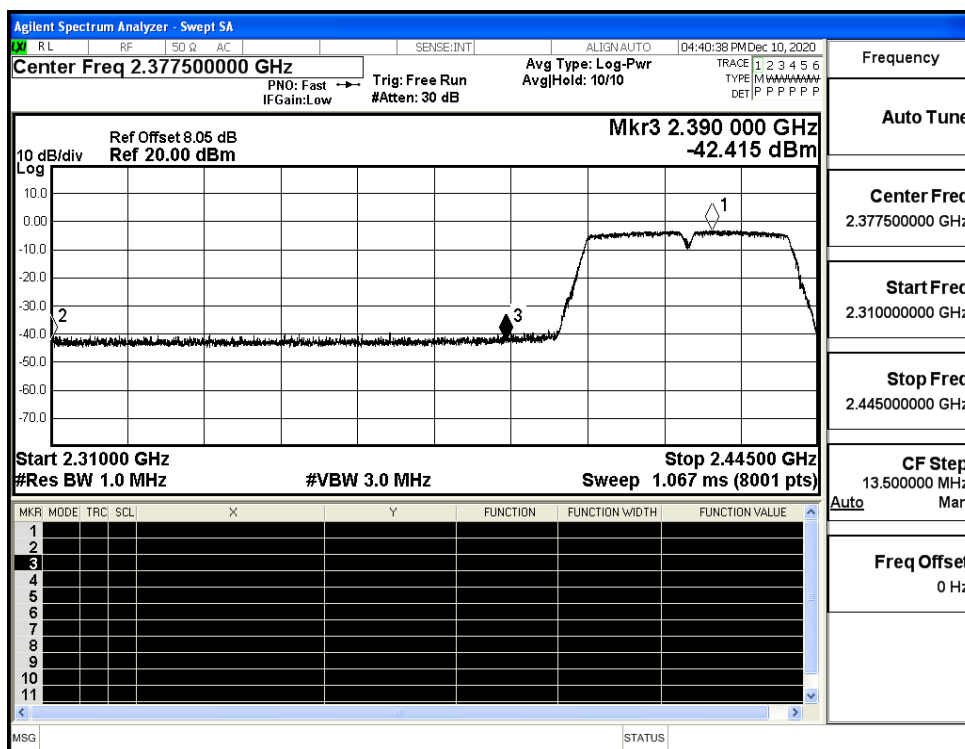
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



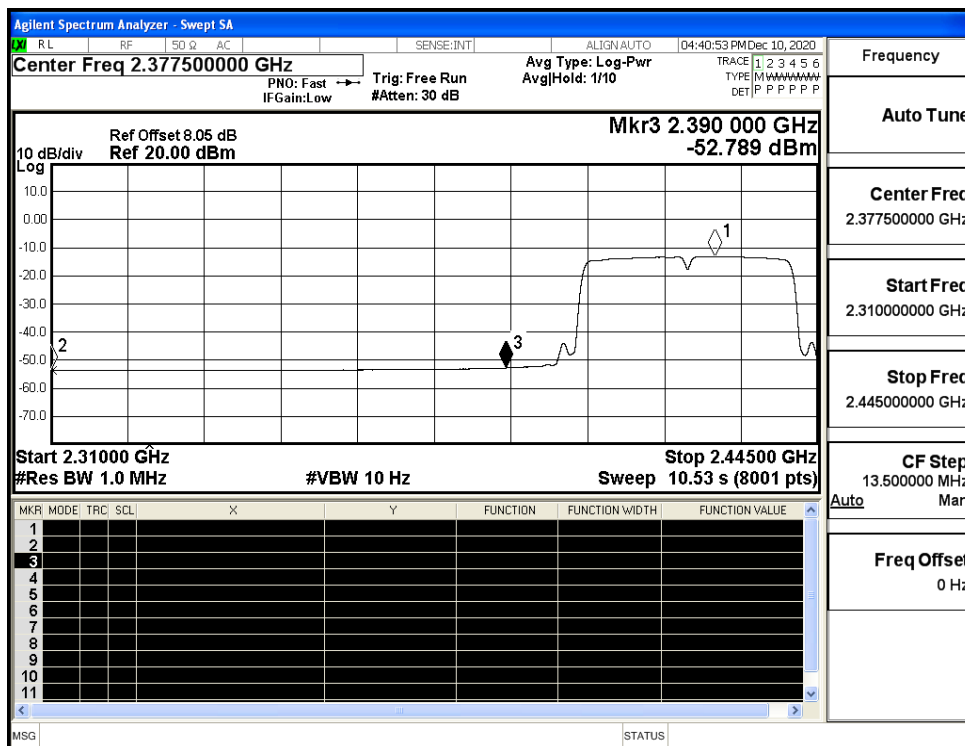
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



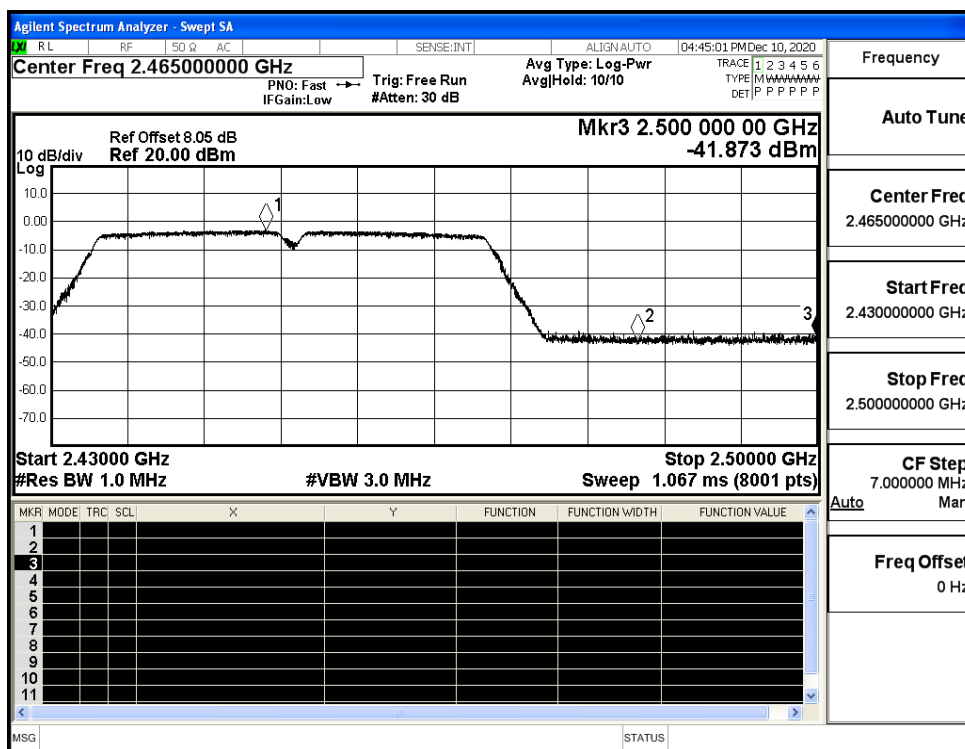
Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV

