



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Optical Network Unit



Trade Mark: V-SOL

Test Model: V2804REW/RGW

Environmental Conditions

Temperature:	21.6° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

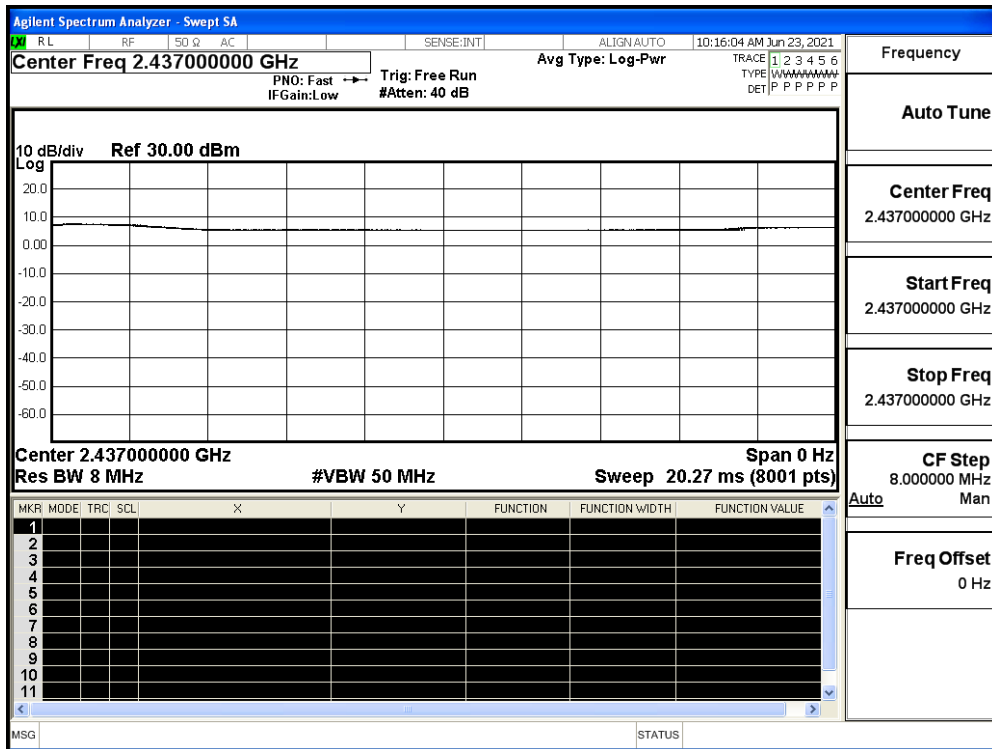
A.1 Duty Cycle

ANT0

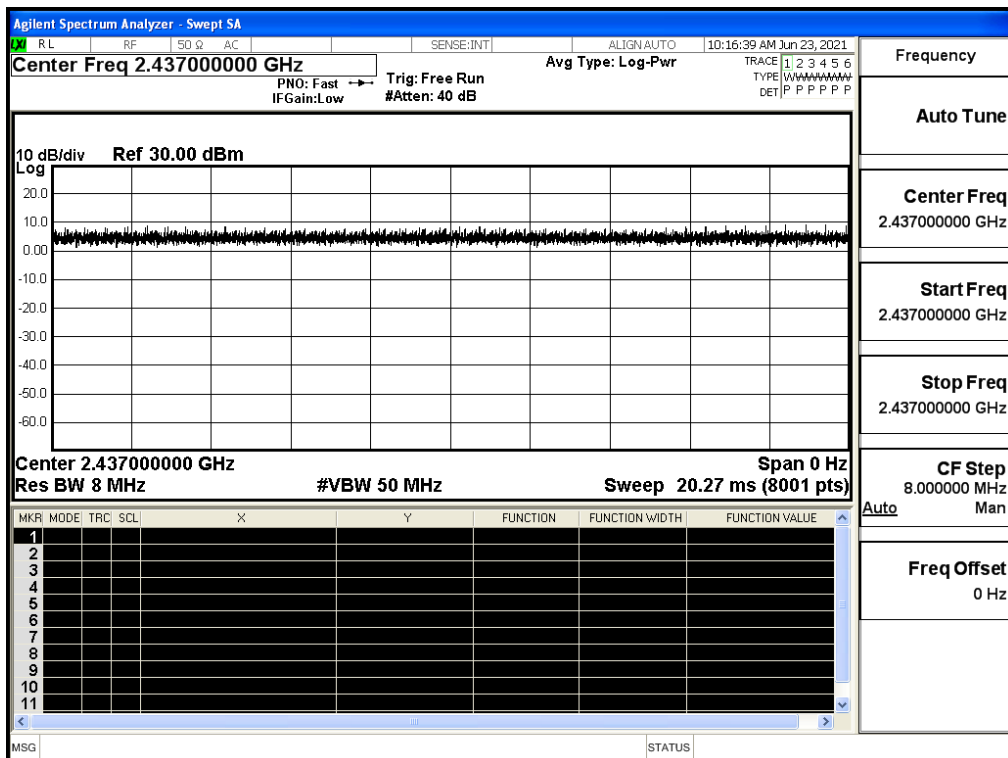
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS



Duty Cycle_11B_2437_Ant0

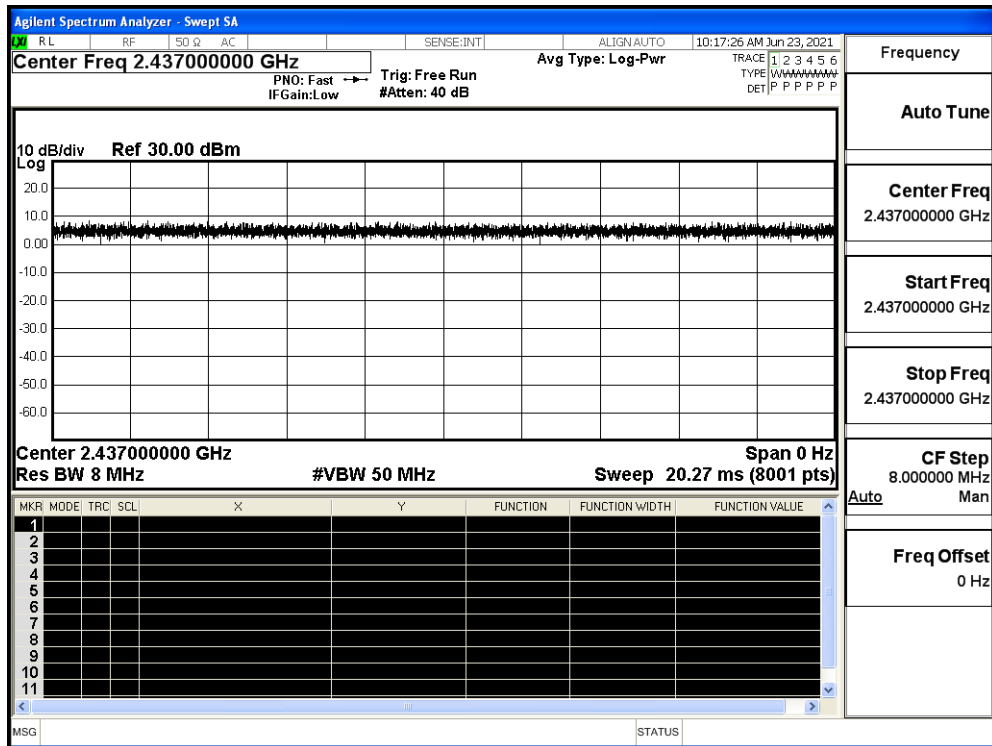


Duty Cycle_11G_2437_Ant0

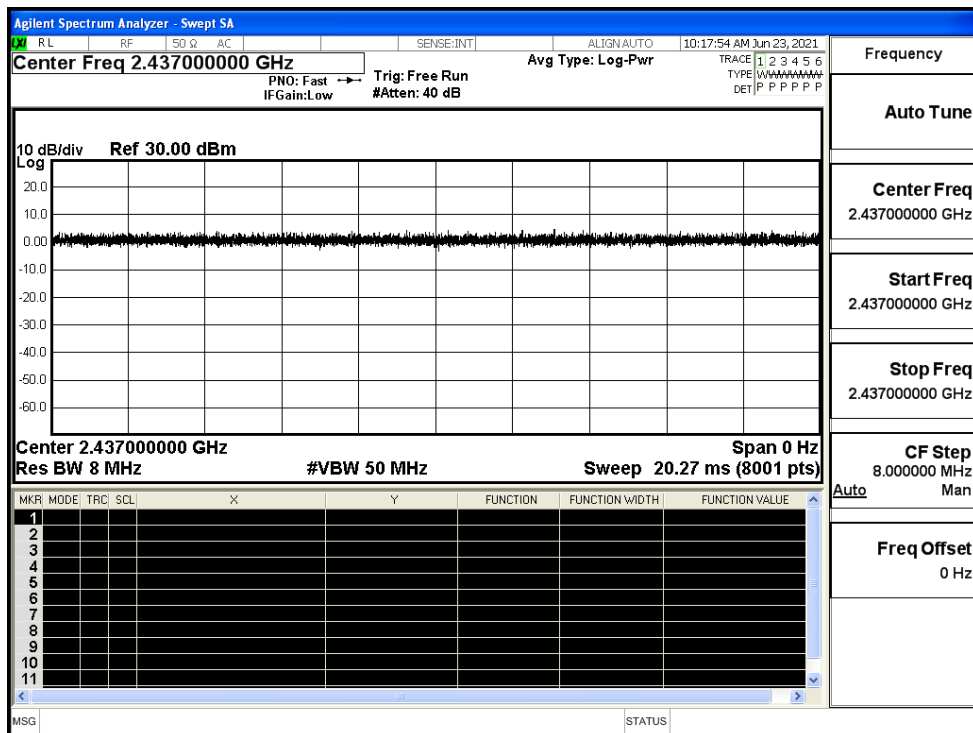




Duty Cycle_11N20SISO_2437_Ant0



Duty Cycle_11N40SISO_2437_Ant0

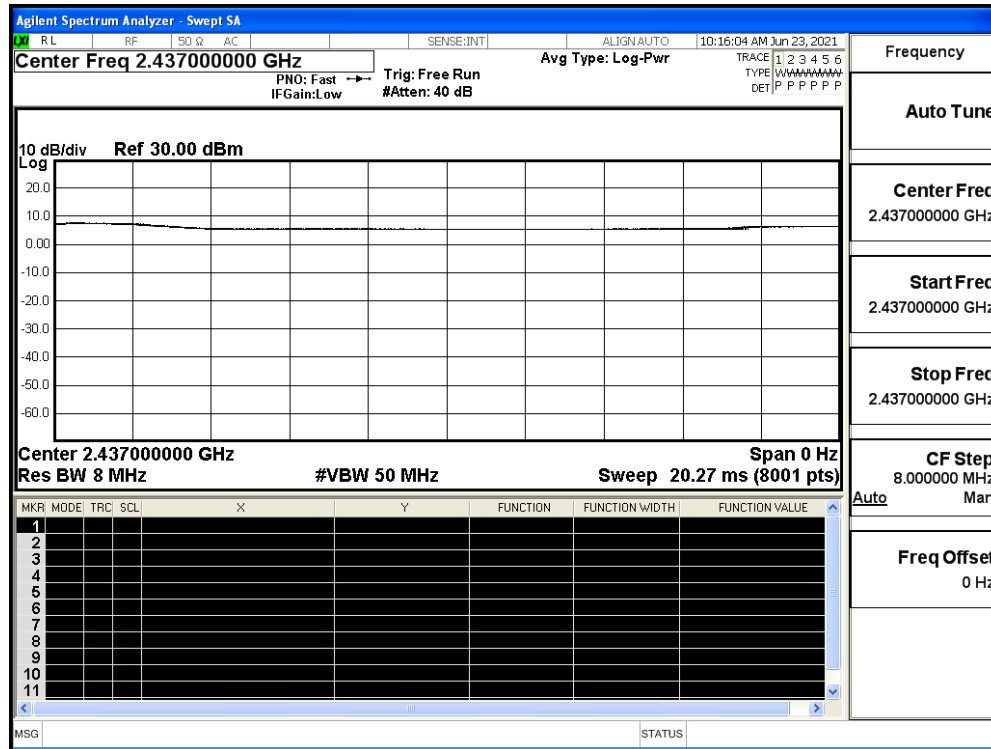




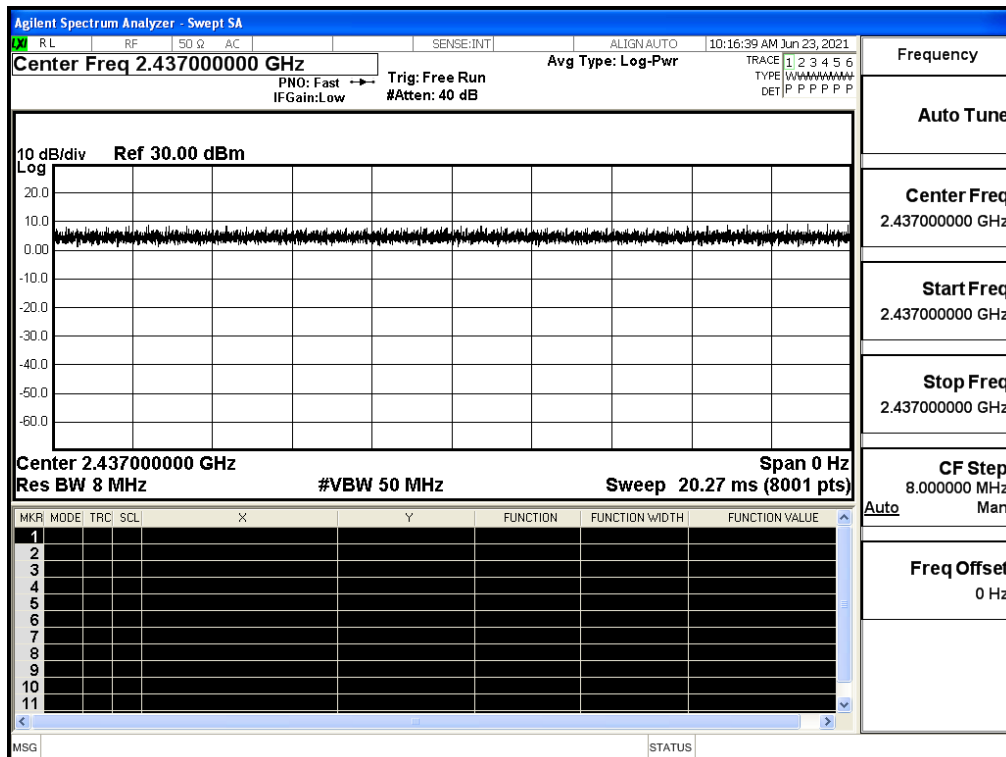
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS



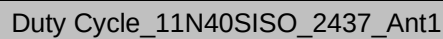
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



A.2 Maximum Conducted Output Power



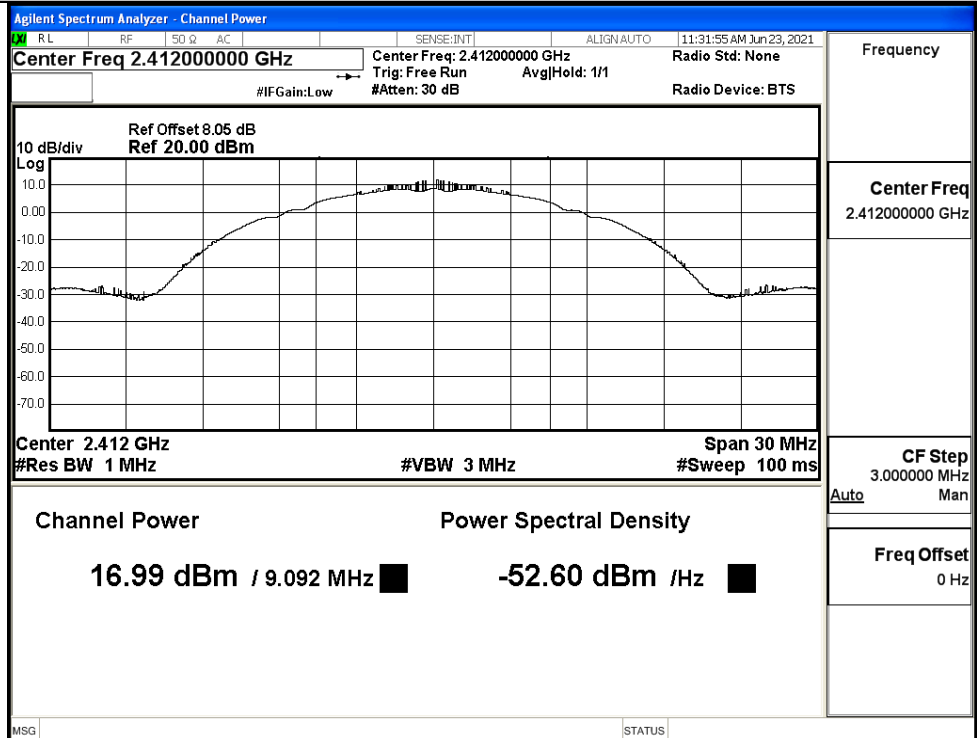
ANT0

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	16.99	30	PASS
	MCH	18.15	30	PASS
	HCH	17.94	30	PASS
11G	LCH	22.18	30	PASS
	MCH	22.32	30	PASS
	HCH	22.32	30	PASS
11N20SISO	LCH	20.44	30	PASS
	MCH	20.06	30	PASS
	HCH	21.14	30	PASS
11N40SISO	LCH	20.9	30	PASS
	MCH	20.08	30	PASS
	HCH	20.91	30	PASS

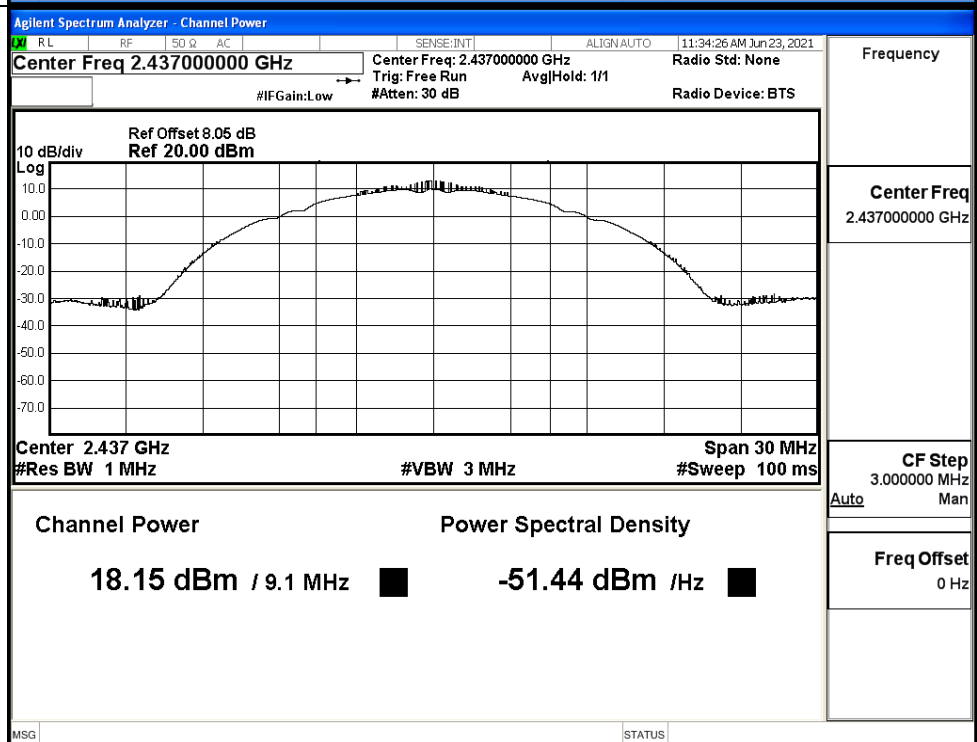


Test Graphs

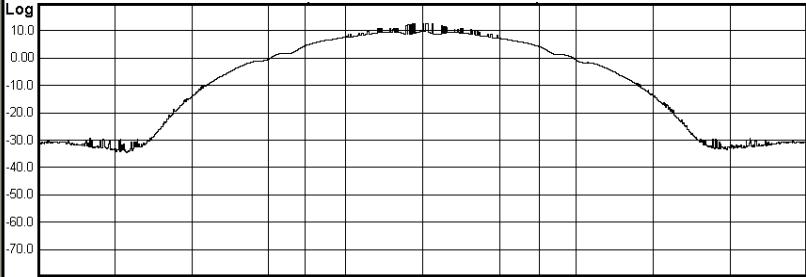
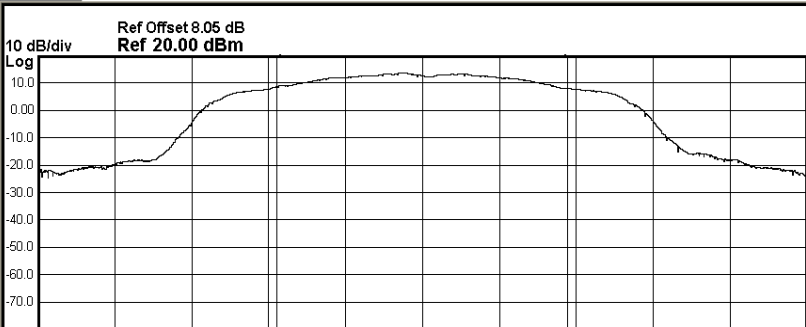
11B/LCH

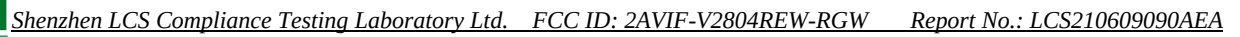


11B/MCH

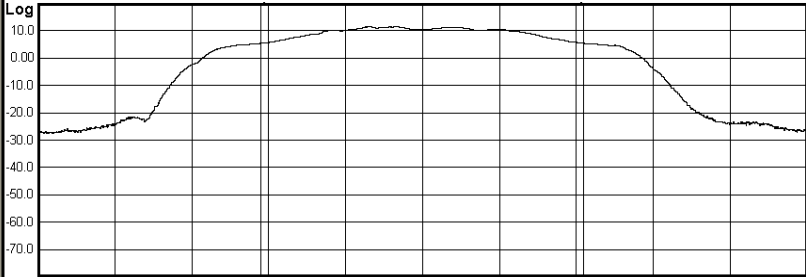
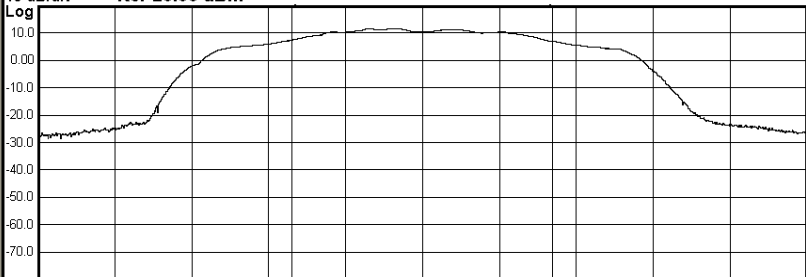




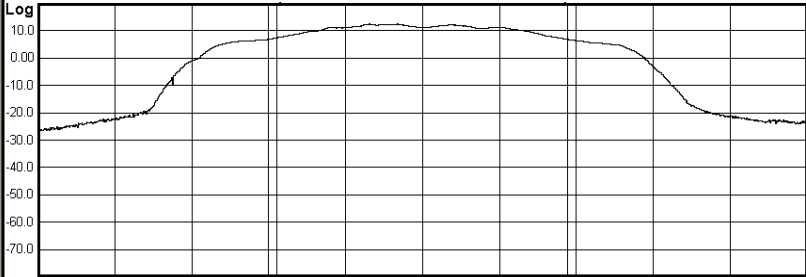
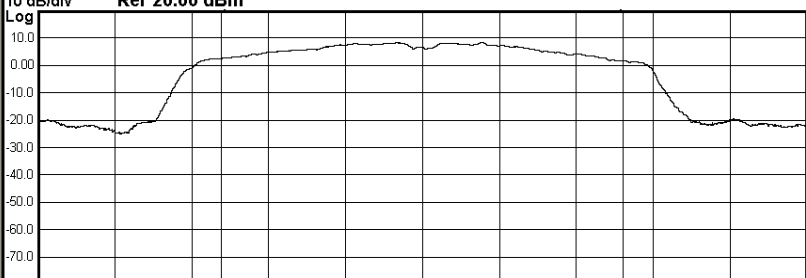
11B/HCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 11:40:12 AM Jun 23, 2021 Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Trig: Free Run AveHld: 1/1 Radio Std: None #IFGain: Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Log  Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 30 MHz #Sweep 100 ms Channel Power Power Spectral Density 17.94 dBm / 9.085 MHz -51.65 dBm /Hz MSG STATUS	Frequency Center Freq 2.462000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
11G/LCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 11:42:49 AM Jun 23, 2021 Center Freq 2.412000000 GHz Center Freq: 2.412000000 GHz Trig: Free Run AveHld: 1/1 Radio Std: None #IFGain: Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Log  Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 30 MHz #Sweep 100 ms Channel Power Power Spectral Density 22.18 dBm / 11.32 MHz -48.36 dBm /Hz MSG STATUS	Frequency Center Freq 2.412000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz

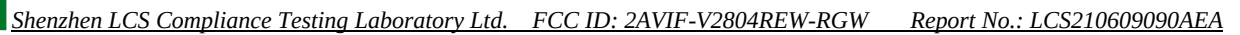
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11N20SISO/LCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN:Auto 01:40:28 PM Jun 23, 2021 Center Freq 2.412000000 GHz Center Freq: 2.412000000 GHz Radio Std: None #IF Gain: Low Trig: Free Run Avg/Hold: 1/1 #Atten: 30 dB Radio Device: BTS Ref Offset 8.05 dB Ref 20.00 dBm 10 dB/div Log  Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 30 MHz #Sweep 100 ms Channel Power Power Spectral Density 20.44 dBm / 12.57 MHz -50.55 dBm /Hz MSG STATUS Frequency Center Freq 2.412000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
11N20SISO/MCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN:Auto 01:43:03 PM Jun 23, 2021 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Radio Std: None #IF Gain: Low Trig: Free Run Avg/Hold: 1/1 #Atten: 30 dB Radio Device: BTS Ref Offset 8.05 dB Ref 20.00 dBm 10 dB/div Log  Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 30 MHz #Sweep 100 ms Channel Power Power Spectral Density 20.06 dBm / 10.11 MHz -49.99 dBm /Hz MSG STATUS Frequency Center Freq 2.437000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz



11N20SISO/HCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN:Auto 01:44:49 PM Jun 23, 2021 Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Trig: Free Run Avg Hold: 1/1 Radio Std: None #IFGain:Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Log  Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 30 MHz #Sweep 100 ms Channel Power Power Spectral Density 21.14 dBm / 11.29 MHz -49.39 dBm /Hz MSG STATUS Frequency Center Freq2.462000000 GHz CF Step3.000000 MHz AutoMan Freq Offset0 Hz
11N40SISO/LCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN:Auto 01:49:40 PM Jun 23, 2021 Center Freq 2.422000000 GHz Center Freq: 2.422000000 GHz Trig: Free Run Avg Hold: 1/1 Radio Std: None #IFGain:Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Log  Center 2.422 GHz #Res BW 1 MHz #VBW 3 MHz Span 60 MHz #Sweep 100 ms Channel Power Power Spectral Density 20.90 dBm / 31.3 MHz -54.05 dBm /Hz MSG STATUS Frequency Center Freq2.422000000 GHz CF Step6.000000 MHz AutoMan Freq Offset0 Hz

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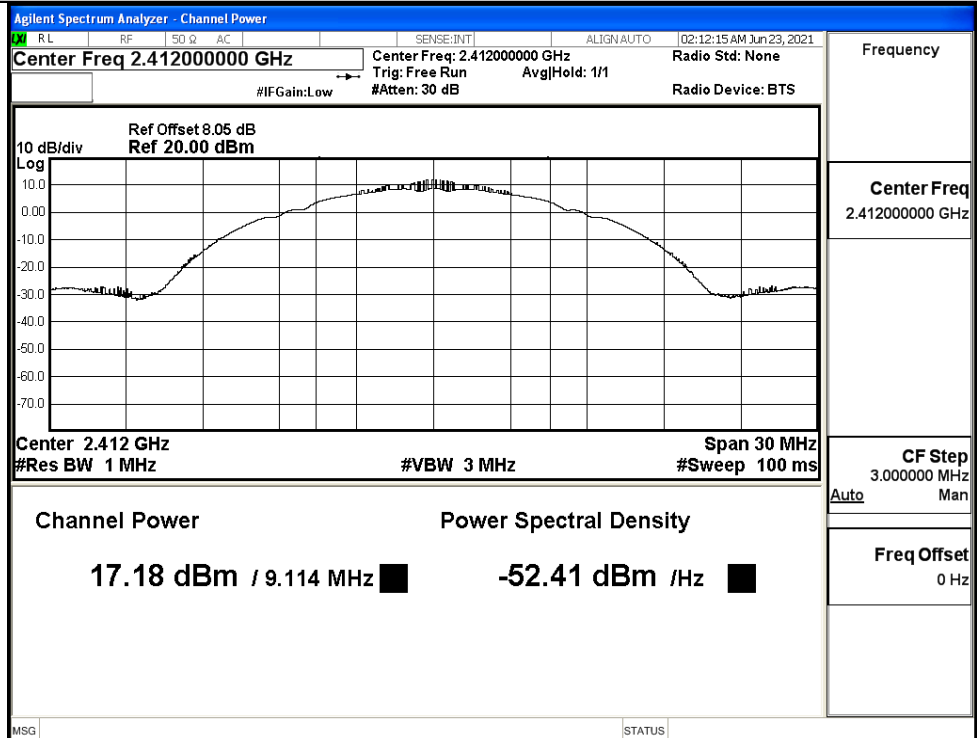
ANT1

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	17.18	30	PASS
	MCH	18.36	30	PASS
	HCH	18.05	30	PASS
11G	LCH	21.76	30	PASS
	MCH	22.31	30	PASS
	HCH	21.91	30	PASS
11N20SISO	LCH	20.39	30	PASS
	MCH	20.23	30	PASS
	HCH	21.44	30	PASS
11N40SISO	LCH	21.09	30	PASS
	MCH	20.38	30	PASS
	HCH	20.29	30	PASS

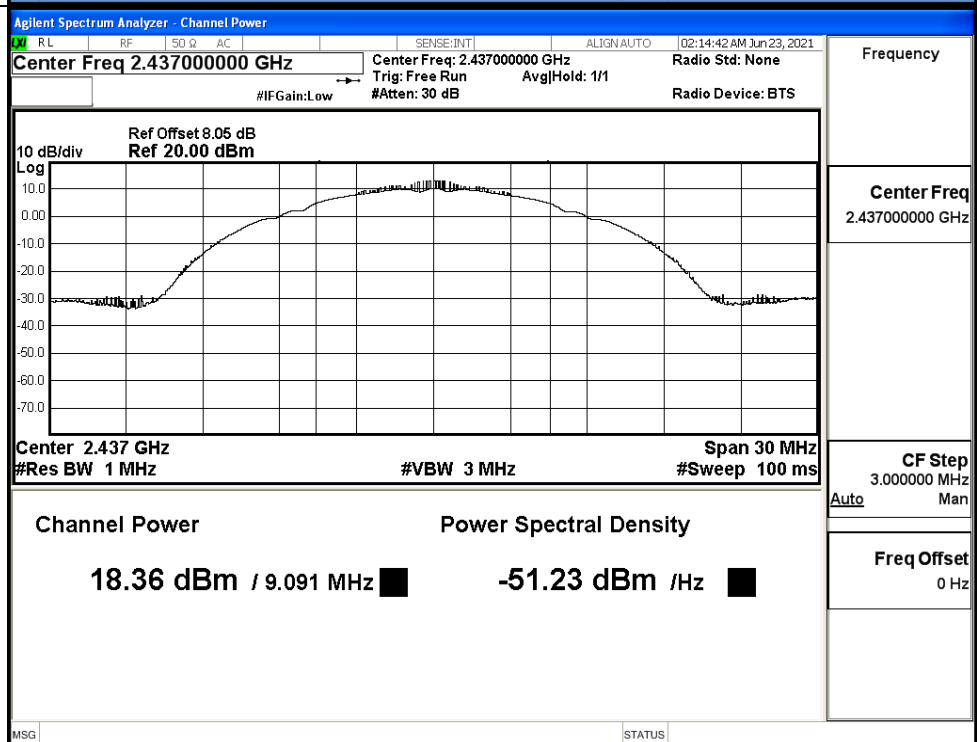


Test Graphs

11B/LCH

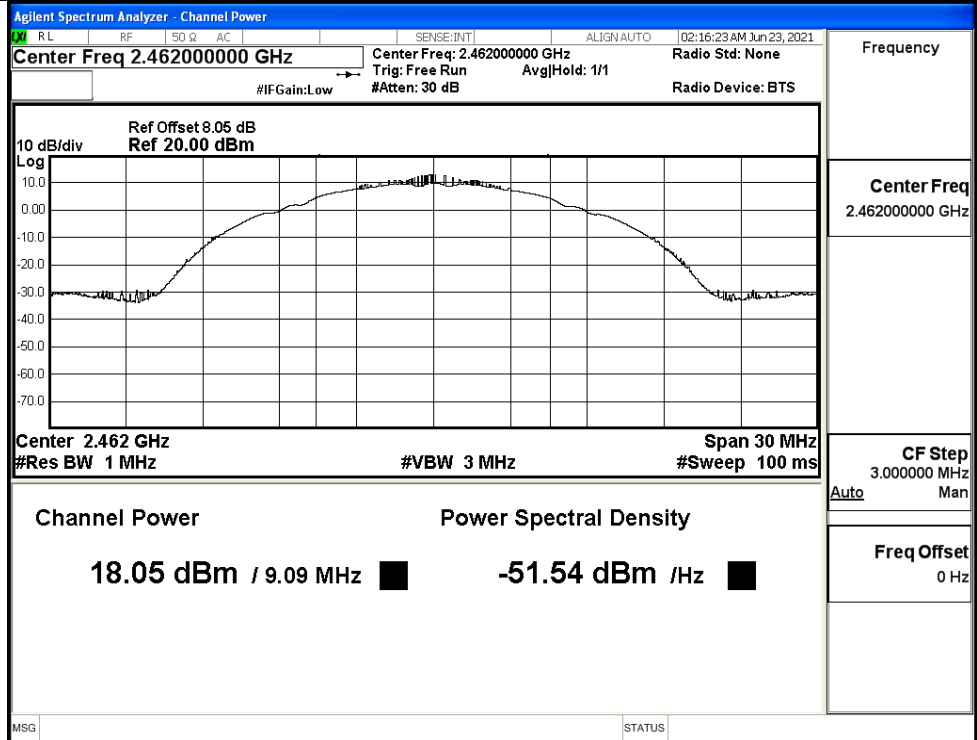


11B/MCH

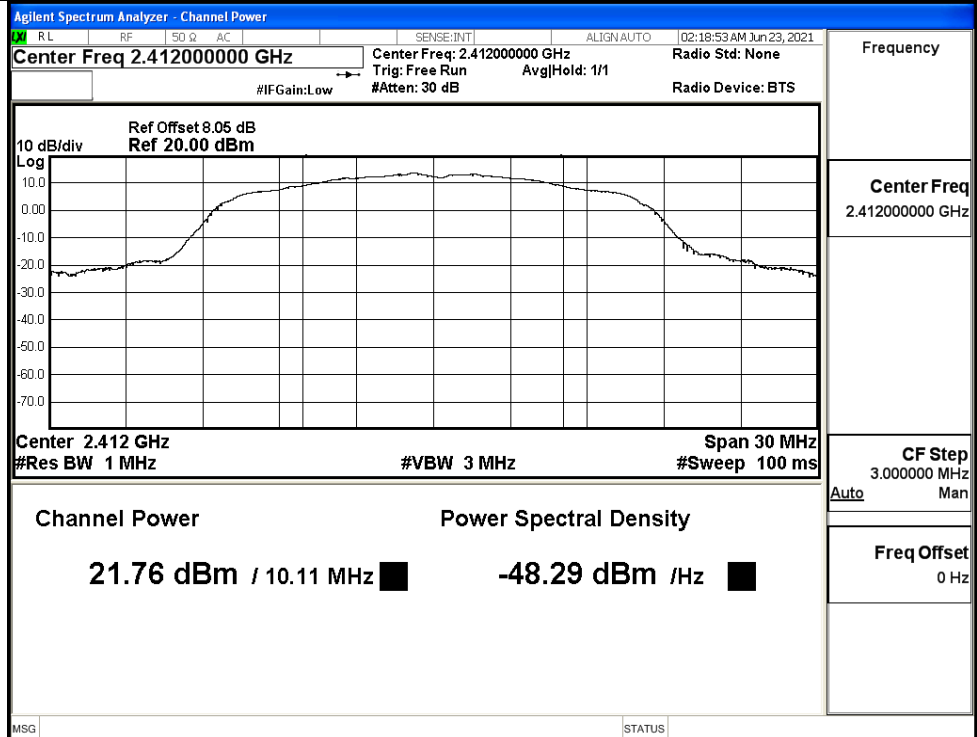




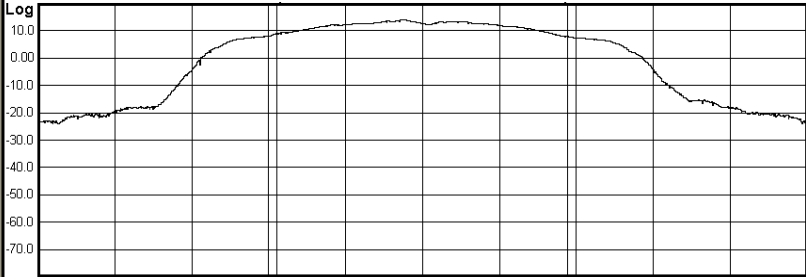
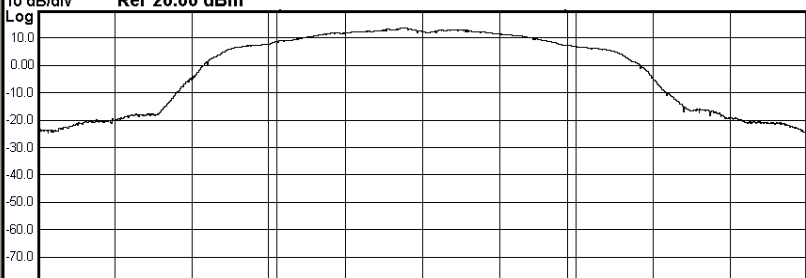
11B/HCH



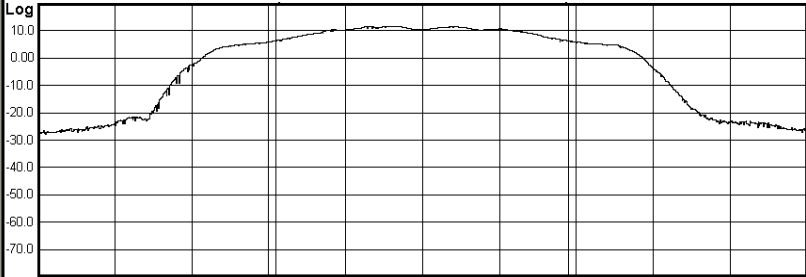
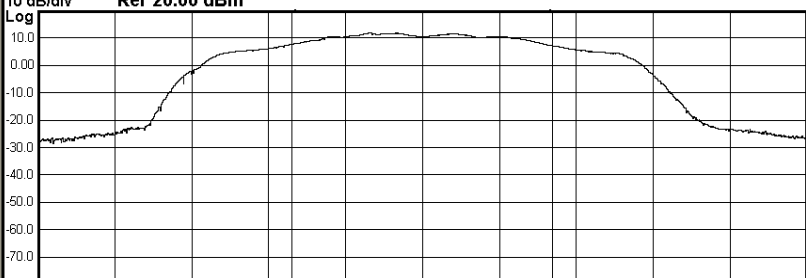
11G/LCH



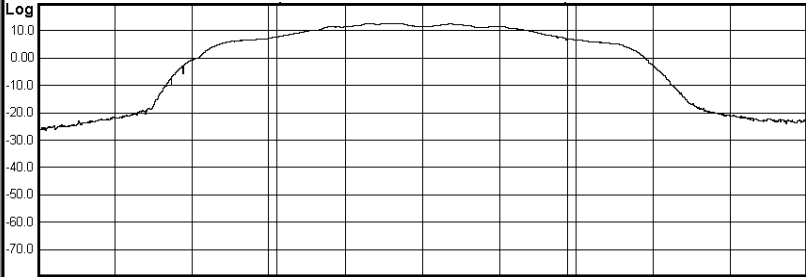
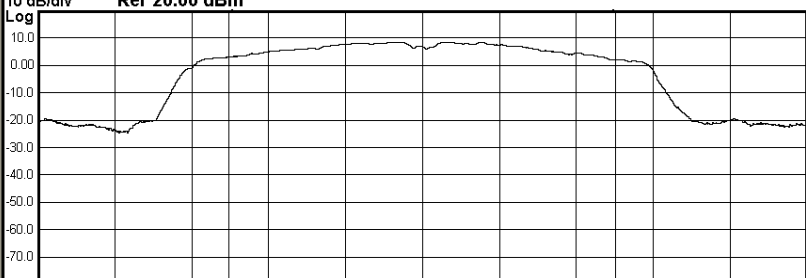


11G/MCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:21:28 AM Jun 23, 2021 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run Avg Hold: 1/1 Radio Std: None #IFGain: Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Log  Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 30 MHz #Sweep 100 ms Channel Power Power Spectral Density 22.31 dBm / 11.33 MHz -48.23 dBm /Hz MSG STATUS	Frequency Center Freq 2.437000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
11G/HCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:23:10 AM Jun 23, 2021 Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Trig: Free Run Avg Hold: 1/1 Radio Std: None #IFGain: Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Log  Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 30 MHz #Sweep 100 ms Channel Power Power Spectral Density 21.91 dBm / 11.31 MHz -48.63 dBm /Hz MSG STATUS	Frequency Center Freq 2.462000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz

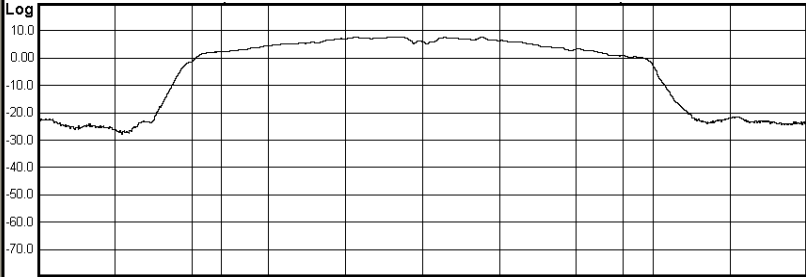
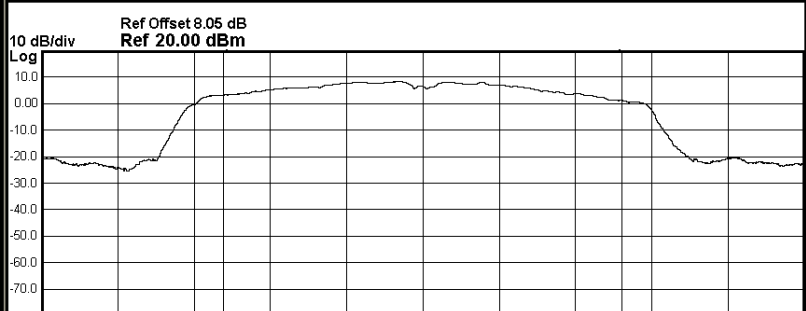


11N20SISO/LCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN:Auto 02:25:53 AM Jun 23, 2021 Center Freq 2.412000000 GHz Center Freq: 2.412000000 GHz Trig: Free Run #IFGain:Low #Atten: 30 dB Radio Std: None Radio Device: BTS Ref Offset 8.05 dB Ref 20.00 dBm 10 dB/div Log  Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 30 MHz #Sweep 100 ms Channel Power Power Spectral Density 20.39 dBm / 11.37 MHz -50.17 dBm /Hz MSG STATUS Frequency Center Freq 2.412000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
11N20SISO/MCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN:Auto 02:28:17 AM Jun 23, 2021 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run #IFGain:Low #Atten: 30 dB Radio Std: None Radio Device: BTS Ref Offset 8.05 dB Ref 20.00 dBm 10 dB/div Log  Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 30 MHz #Sweep 100 ms Channel Power Power Spectral Density 20.23 dBm / 10.1 MHz -49.82 dBm /Hz MSG STATUS Frequency Center Freq 2.437000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz



11N20SISO/HCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:41:40 AM Jun 23, 2021 Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Trig: Free Run Avg Hold: 1/1 Radio Std: None #IFGain: Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Log  Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 30 MHz #Sweep 100 ms Channel Power Power Spectral Density 21.44 dBm / 11.3 MHz -49.09 dBm /Hz MSG STATUS	Frequency Center Freq 2.462000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
11N40SISO/LCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:44:21 AM Jun 23, 2021 Center Freq 2.422000000 GHz Center Freq: 2.422000000 GHz Trig: Free Run Avg Hold: 1/1 Radio Std: None #IFGain: Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Log  Center 2.422 GHz #Res BW 1 MHz #VBW 3 MHz Span 60 MHz #Sweep 100 ms Channel Power Power Spectral Density 21.09 dBm / 30.11 MHz -53.70 dBm /Hz MSG STATUS	Frequency Center Freq 2.422000000 GHz CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz



11N40SISO/MCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:46:51 AM Jun 23, 2021 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None #IF Gain: Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Log  Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 60 MHz #Sweep 100 ms Channel Power Power Spectral Density 20.38 dBm / 31.32 MHz -54.58 dBm /Hz MSG STATUS Frequency Center Freq 2.437000000 GHz CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz
11N40SISO/HCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 01:53:55 PM Jun 23, 2021 Center Freq 2.452000000 GHz Center Freq: 2.452000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None #IF Gain: Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Log  Center 2.452 GHz #Res BW 1 MHz #VBW 3 MHz Span 60 MHz #Sweep 100 ms Channel Power Power Spectral Density 20.29 dBm / 31.31 MHz -54.05 dBm /Hz MSG STATUS Frequency Center Freq 2.452000000 GHz CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz



MIMO

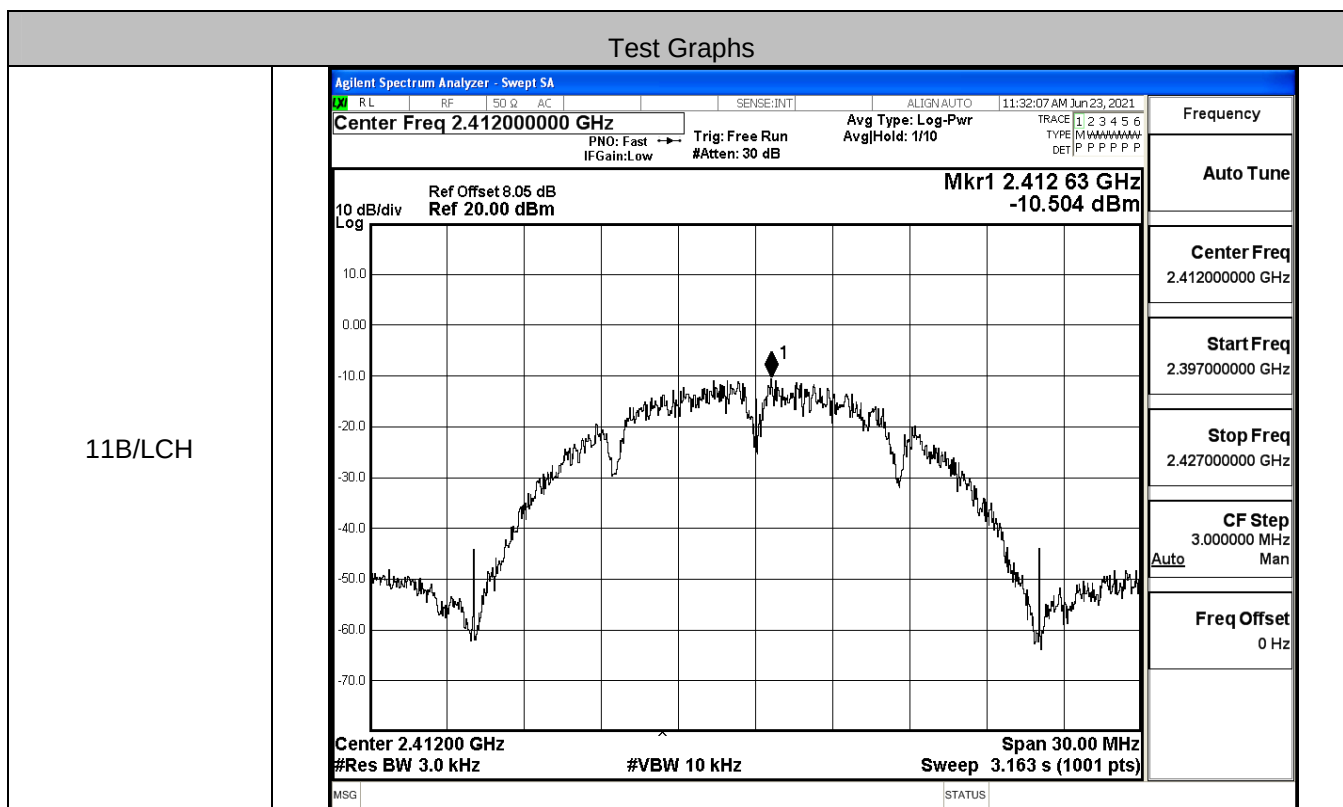
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11N20	LCH	20.44	20.39	23.43	30	PASS
	MCH	20.06	20.23	23.16	30	PASS
	HCH	21.14	21.44	24.30	30	PASS
11N40	LCH	20.90	21.09	24.01	30	PASS
	MCH	20.08	20.38	23.24	30	PASS
	HCH	20.91	20.29	23.62	30	PASS



A.3 Maximum Power Spectral Density

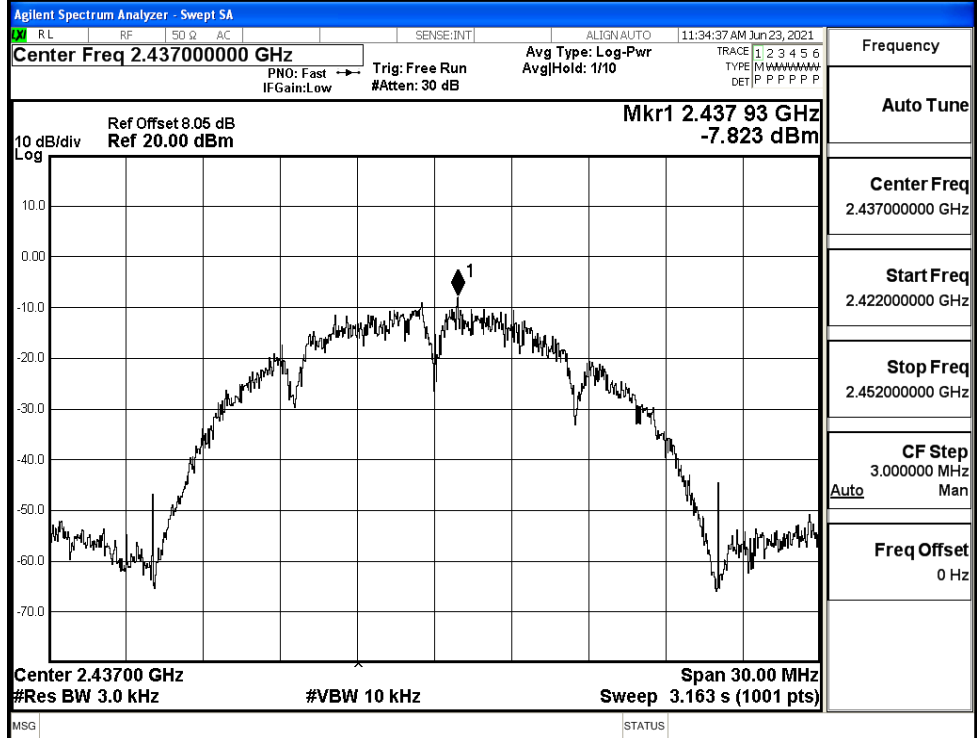
ANT0

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-10.504	8	PASS
	MCH	-7.823	8	PASS
	HCH	-8.333	8	PASS
11G	LCH	-10.442	8	PASS
	MCH	-10.282	8	PASS
	HCH	-10.282	8	PASS
11N20SISO	LCH	-11.074	8	PASS
	MCH	-11.340	8	PASS
	HCH	-11.086	8	PASS
11N40SISO	LCH	-11.616	8	PASS
	MCH	-12.122	8	PASS
	HCH	-12.212	8	PASS

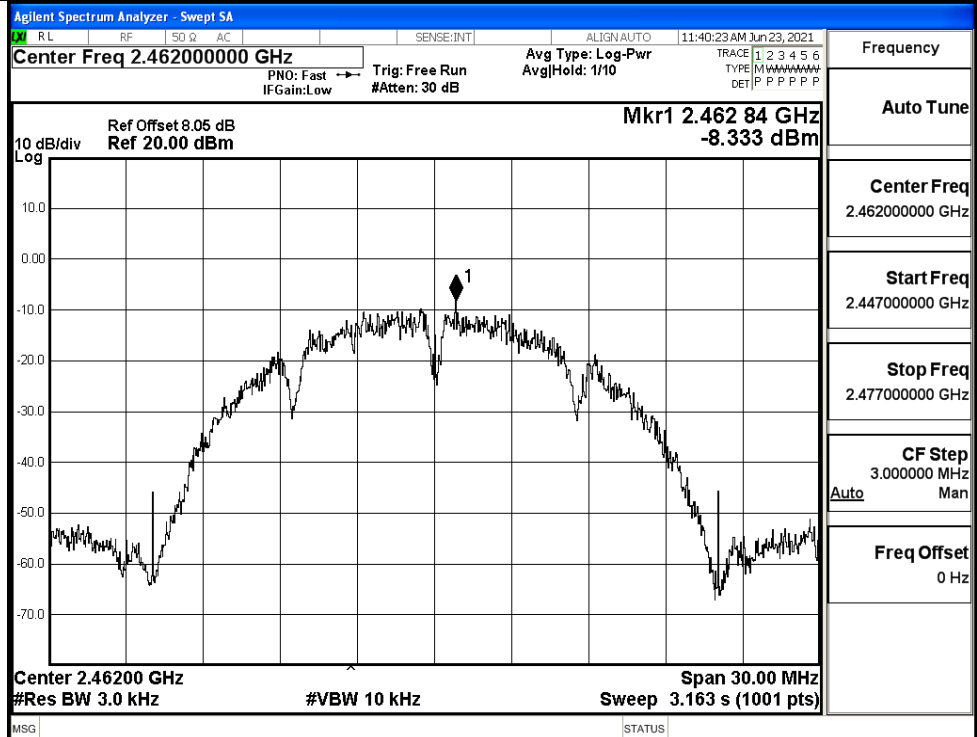




11B/MCH

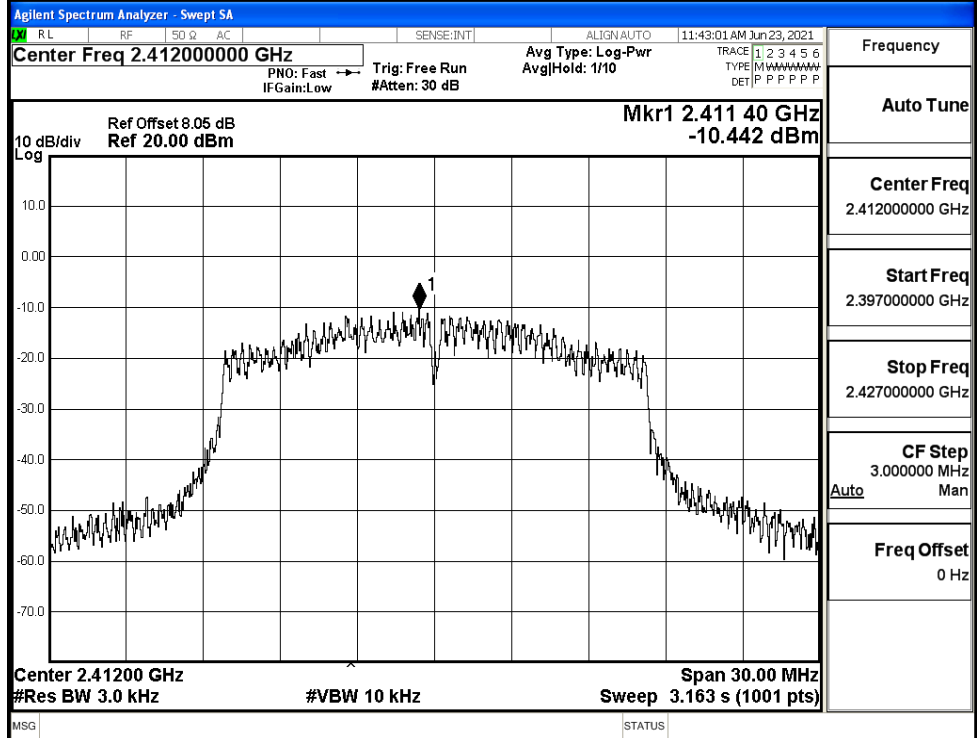


11B/HCH

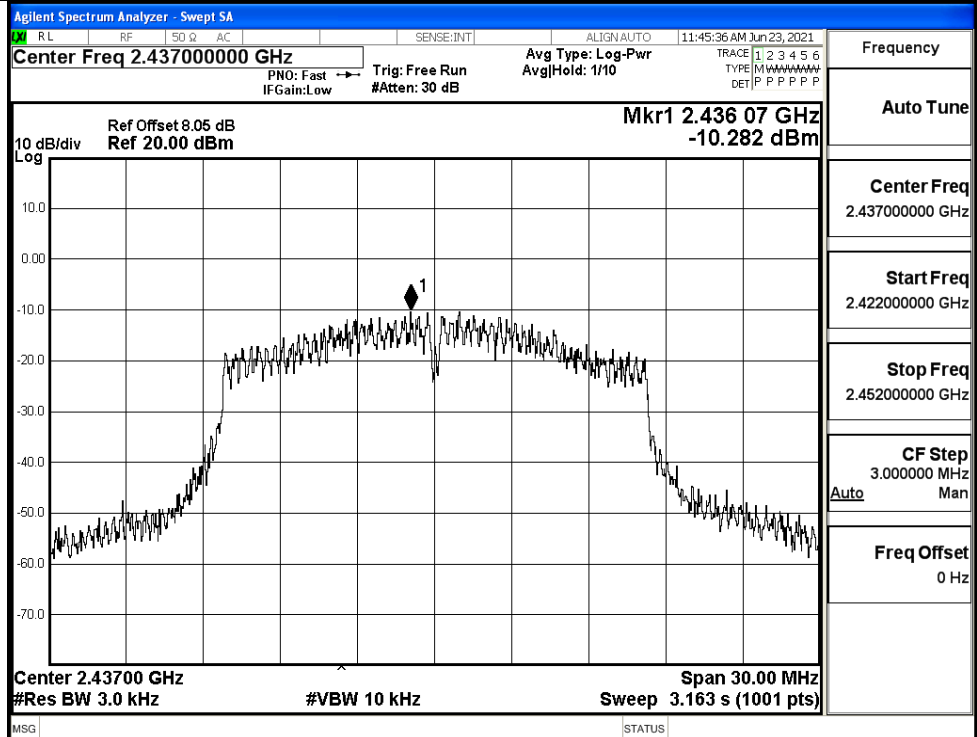




11G/LCH

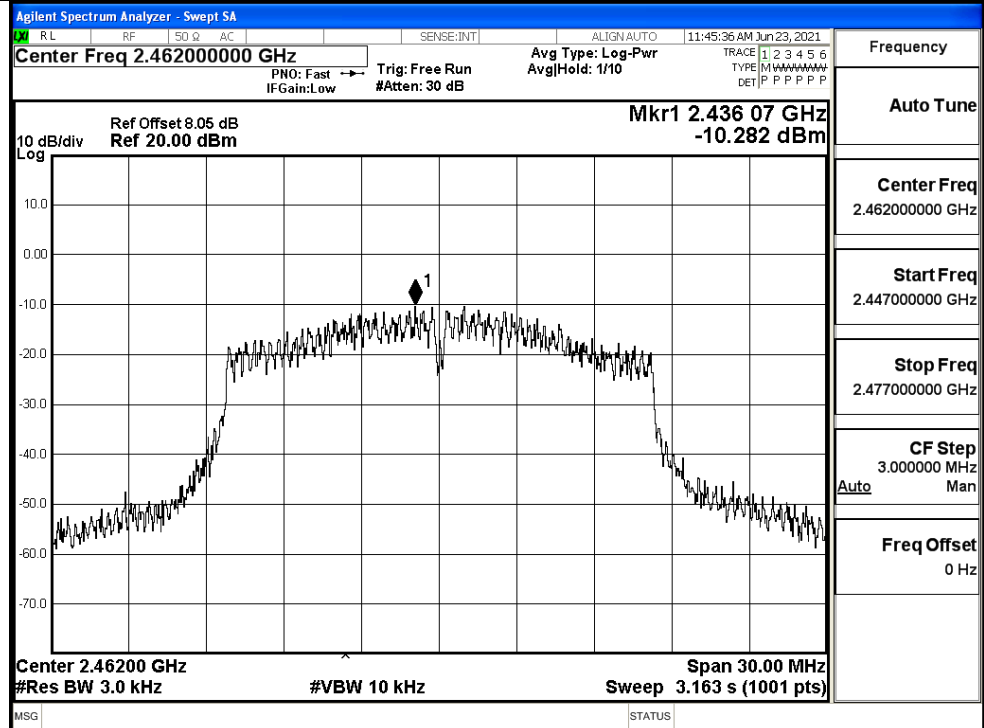


11G/MCH

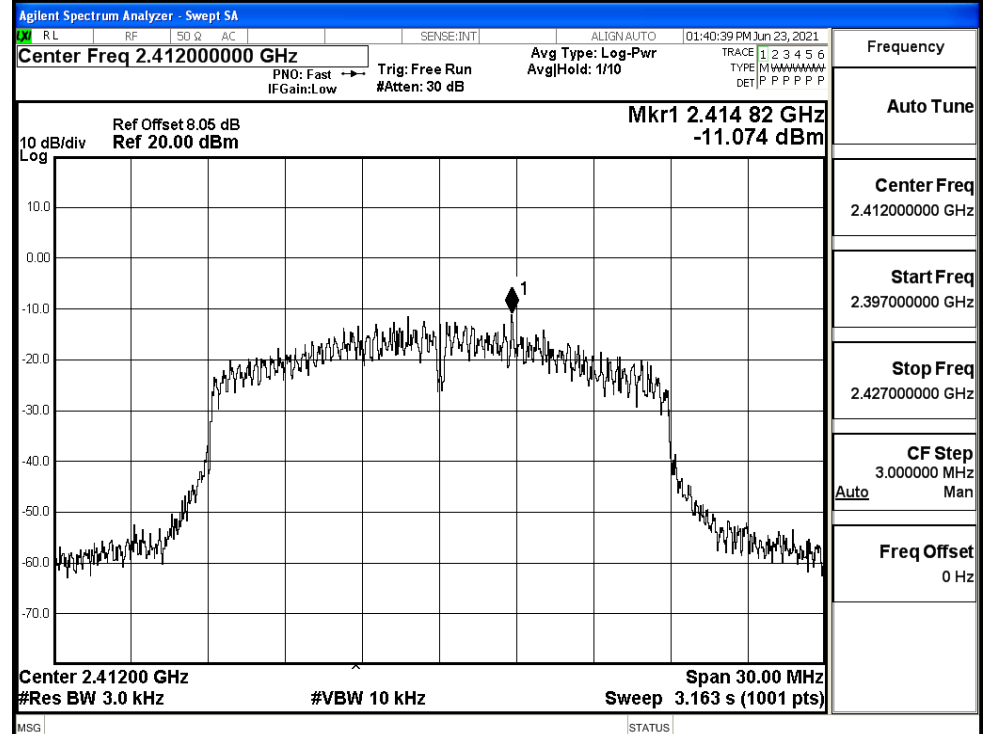




11G/HCH

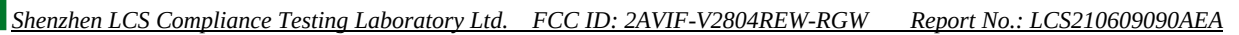


11N20SISO/LCH



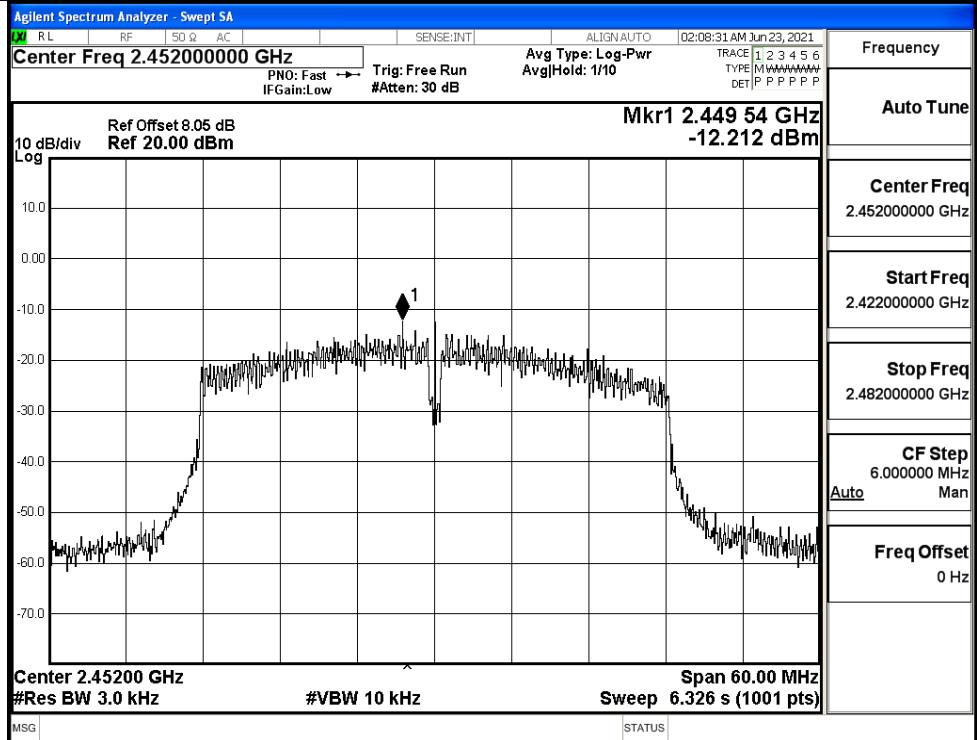


11N20SISO/MCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 01:43:15 PM Jun 23, 2021 Center Freq 2.437000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 1/10 TRACE 1 2 3 4 5 6 TYPE: M W W W W W W W DET: P P P P P P P Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.439 82 GHz -11.340 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts) MSG STATUS 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
11N20SISO/HCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 01:45:00 PM Jun 23, 2021 Center Freq 2.462000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 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 P Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.461 79 GHz -11.086 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts) MSG STATUS 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

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11N40SISO/HCH

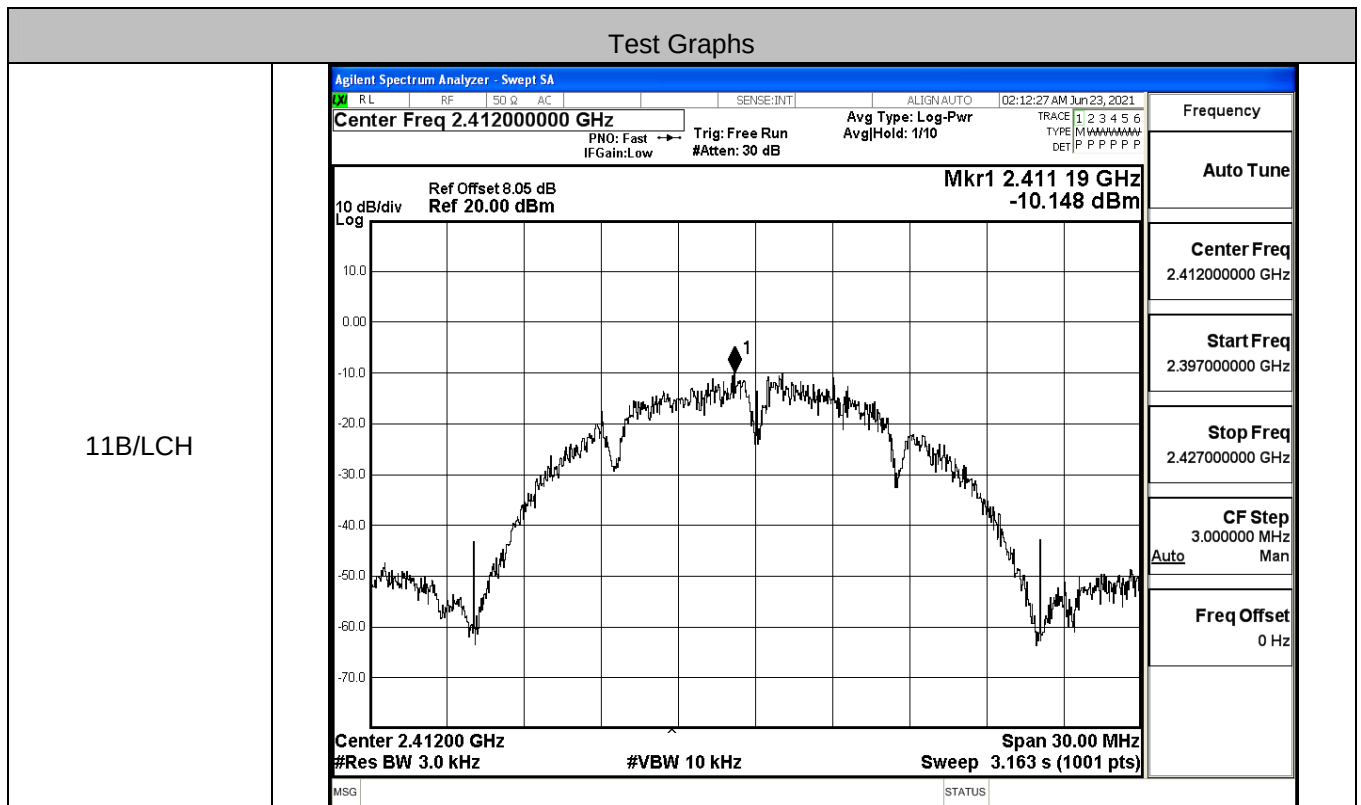




ANT1

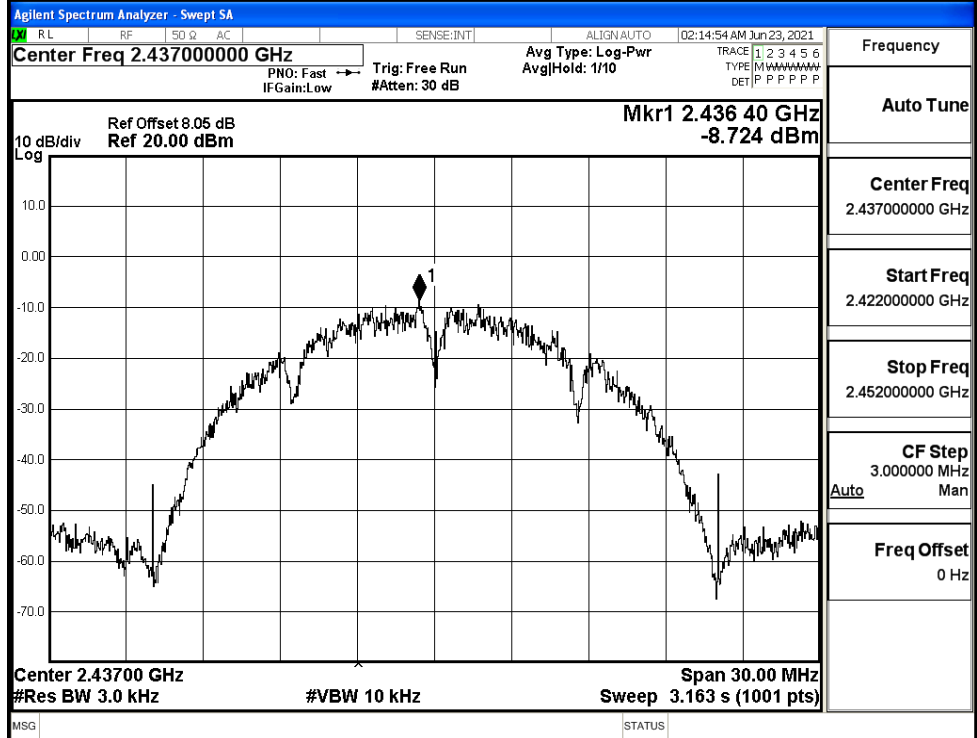
Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-10.148	8	PASS
	MCH	-8.724	8	PASS
	HCH	-8.840	8	PASS
11G	LCH	-10.409	8	PASS
	MCH	-10.455	8	PASS
	HCH	-10.715	8	PASS
11N20SISO	LCH	-11.890	8	PASS
	MCH	-10.273	8	PASS
	HCH	-10.618	8	PASS
11N40SISO	LCH	-11.507	8	PASS
	MCH	-12.012	8	PASS
	HCH	-12.438	8	PASS

Test Graphs

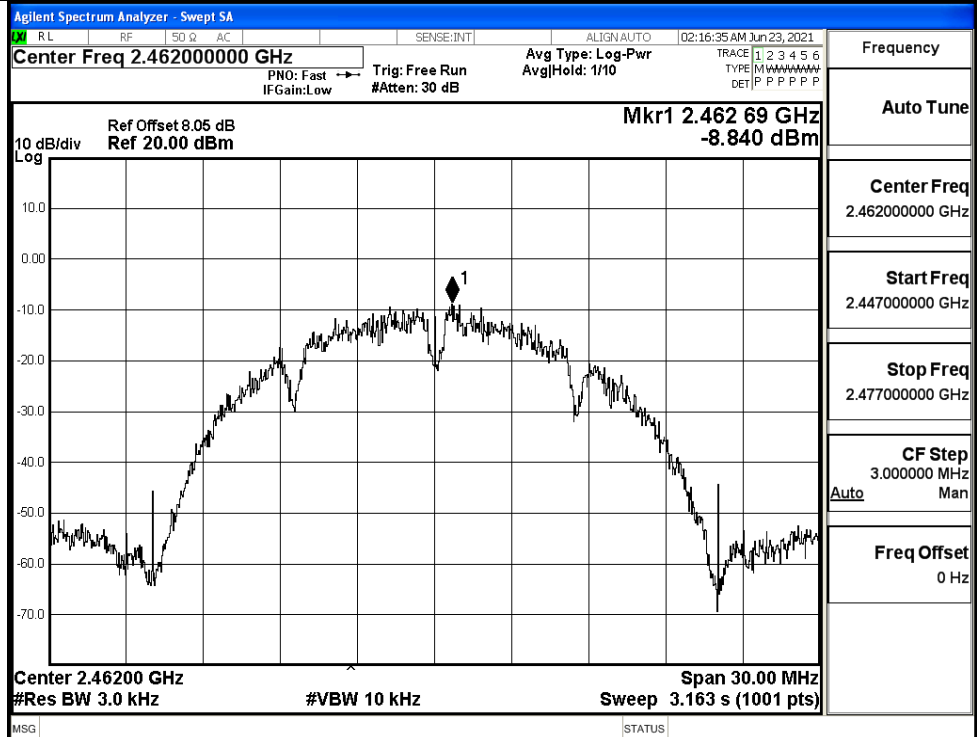




11B/MCH

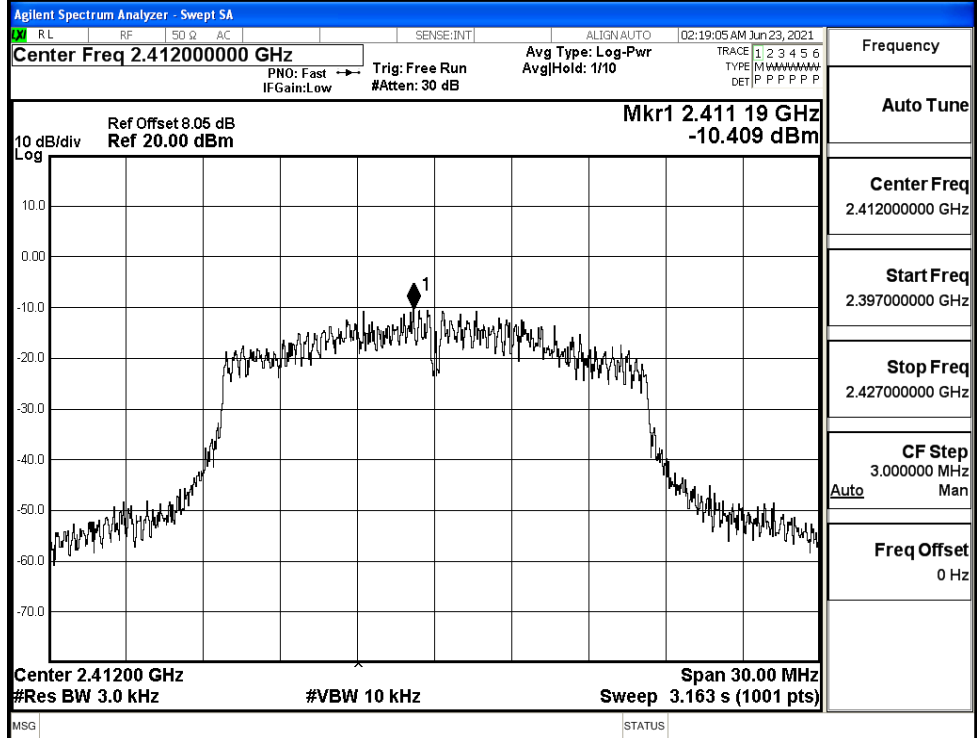


11B/HCH

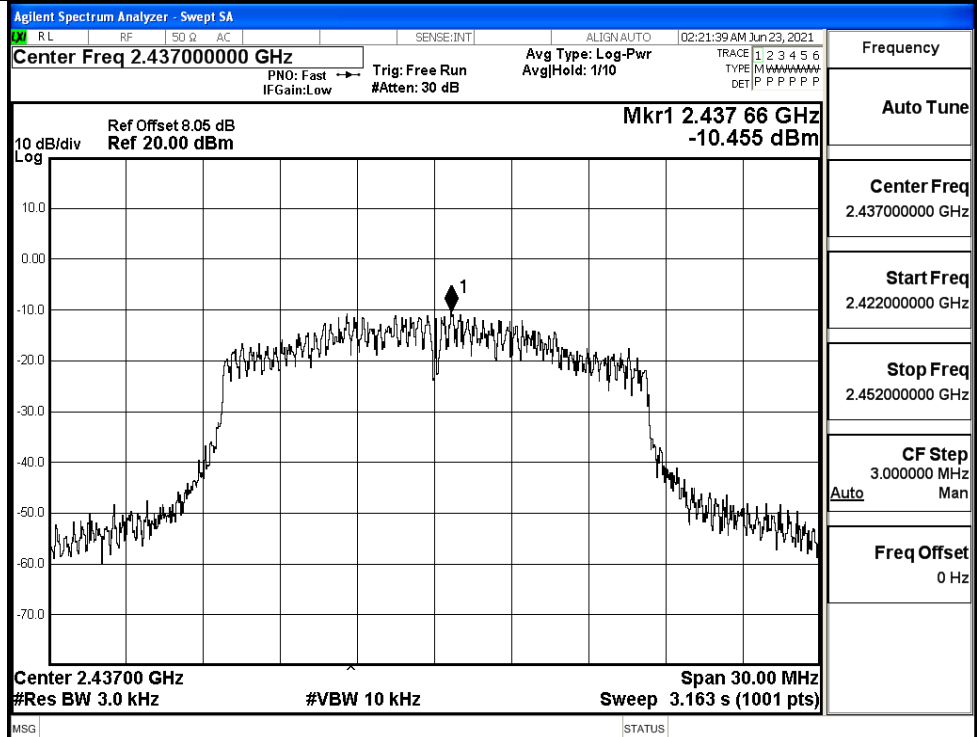




11G/LCH

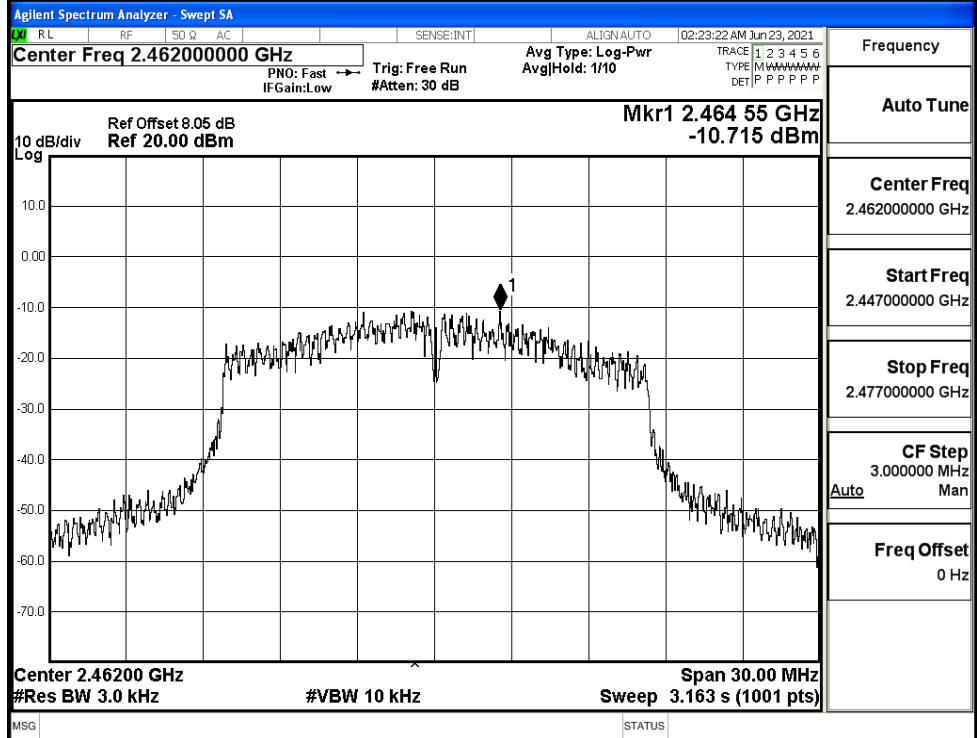


11G/MCH

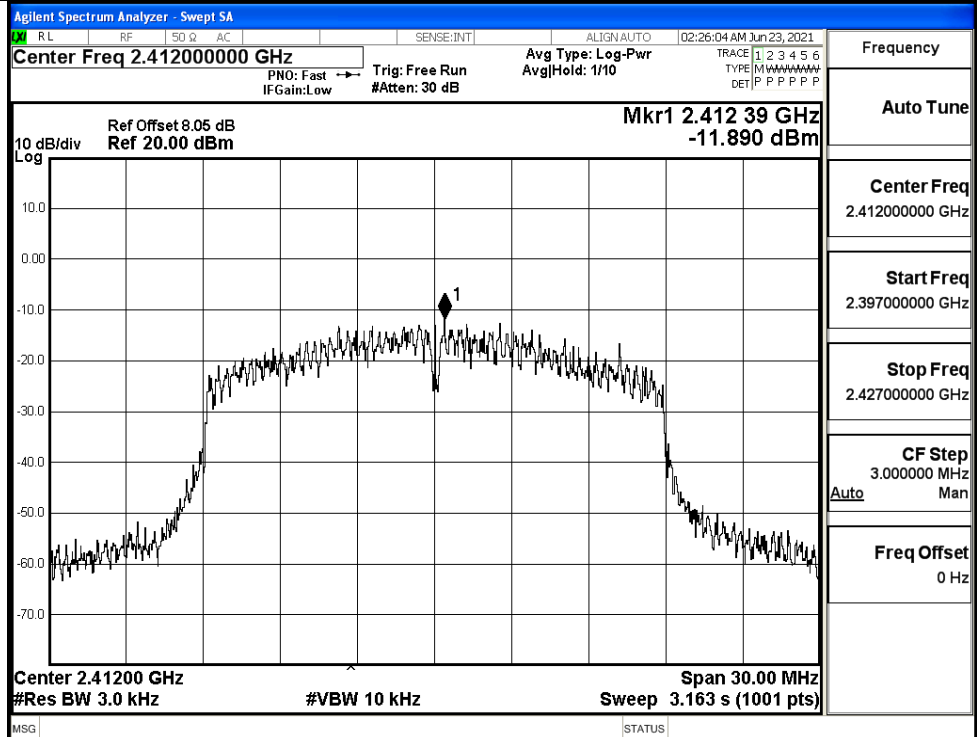


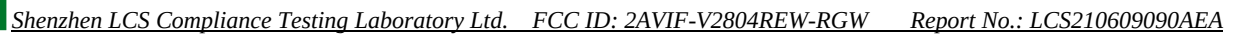


11G/HCH



11N20SISO/LCH



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11N40SISO/LCH

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.42200000 GHz

Ref Offset 8.05 dB
Ref 20.00 dBm

Mkr1 2.422 06 GHz
-11.507 dBm

10 dB/div
Log

Center 2.42200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Sweep 6.326 s (1001 pts)

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

Center Freq 2.437000000 GHz

Ref Offset 8.05 dB
Ref 20.00 dBm

Mkr1 2.437 06 GHz
-12.012 dBm

10 dB/div
Log

Center 2.43700 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Sweep 6.326 s (1001 pts)

Frequency

Auto Tune

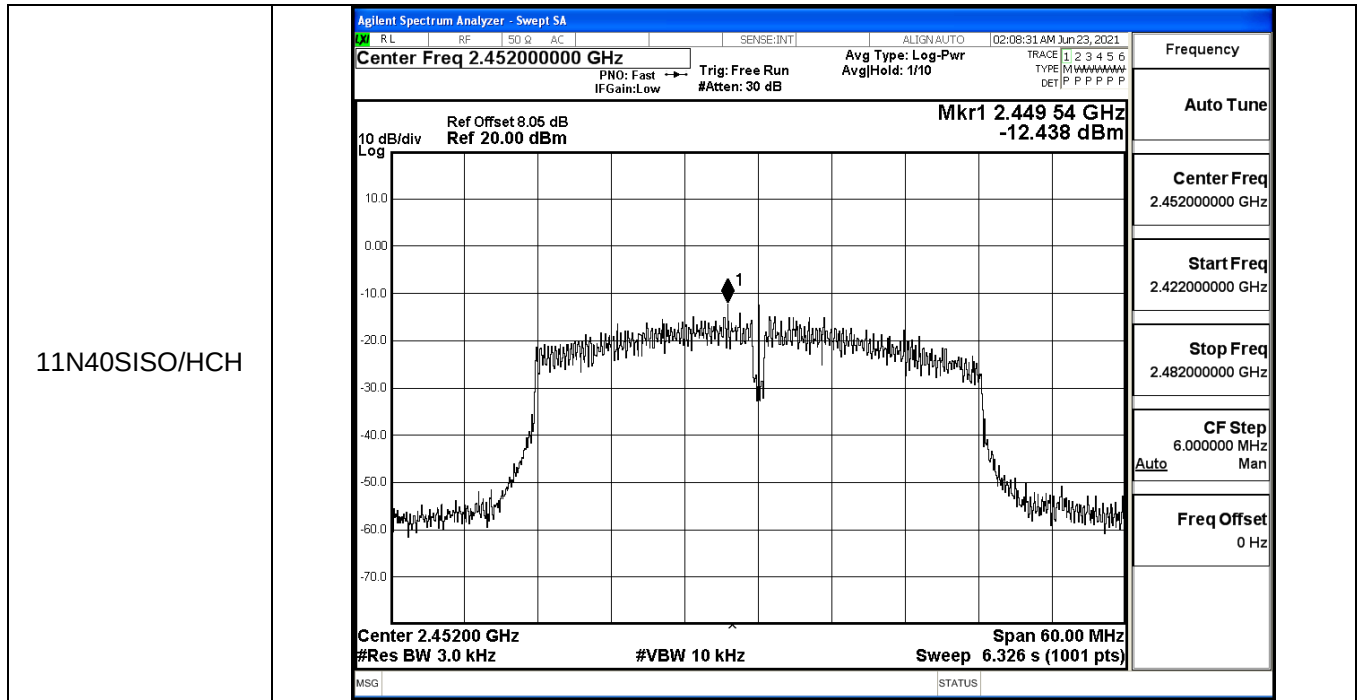
Center Freq
2.437000000 GHz

Start Freq
2.407000000 GHz

Stop Freq
2.467000000 GHz

CF Step
6.000000 MHz
Auto Man

Freq Offset
0 Hz



MIMO

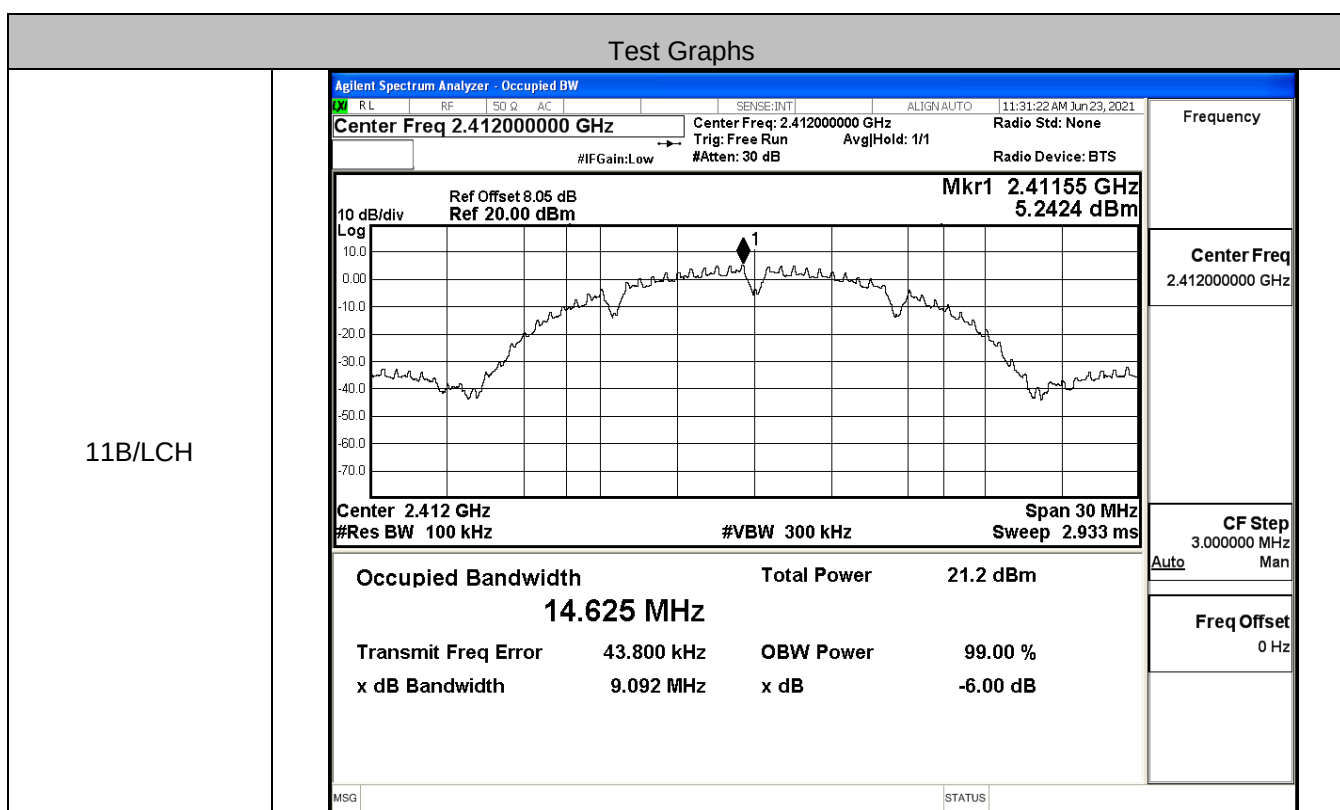
Mode	Channel	ANT 0 [dBm/3KHz]	ANT 1 [dBm/3KHz]	MIMO [dBm/3KHz]	10log(N-3)dB	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11N20	LCH	-11.074	-11.890	-8.45	3.01	-5.44	8.00	PASS
	MCH	-11.340	-10.273	-7.76	3.01	-4.75	8.00	PASS
	HCH	-11.086	-10.618	-7.84	3.01	-4.83	8.00	PASS
11N40	LCH	-11.616	-11.507	-8.55	3.01	-5.54	8.00	PASS
	MCH	-12.122	-12.012	-9.06	3.01	-6.05	8.00	PASS
	HCH	-12.212	-12.438	-9.31	3.01	-6.30	8.00	PASS



A.4 6dB Bandwidth

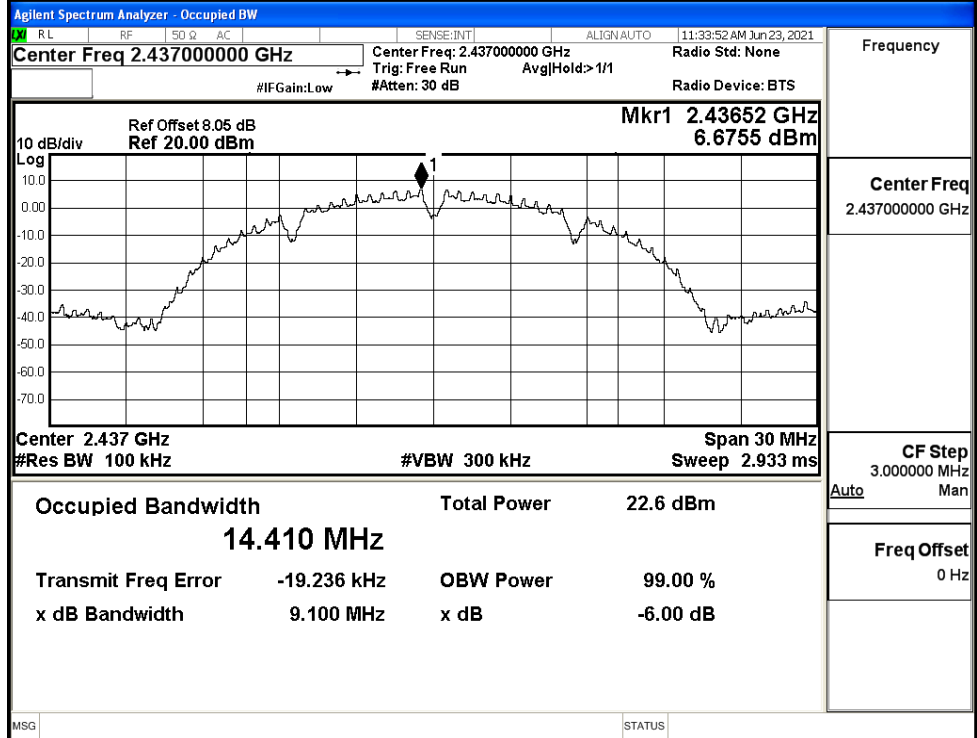
ANT0

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.092	≥ 0.5	PASS
	MCH	9.100	≥ 0.5	PASS
	HCH	9.085	≥ 0.5	PASS
11G	LCH	11.32	≥ 0.5	PASS
	MCH	11.32	≥ 0.5	PASS
	HCH	11.32	≥ 0.5	PASS
11N20SISO	LCH	12.57	≥ 0.5	PASS
	MCH	10.11	≥ 0.5	PASS
	HCH	11.29	≥ 0.5	PASS
11N40SISO	LCH	31.30	≥ 0.5	PASS
	MCH	31.34	≥ 0.5	PASS
	HCH	31.31	≥ 0.5	PASS

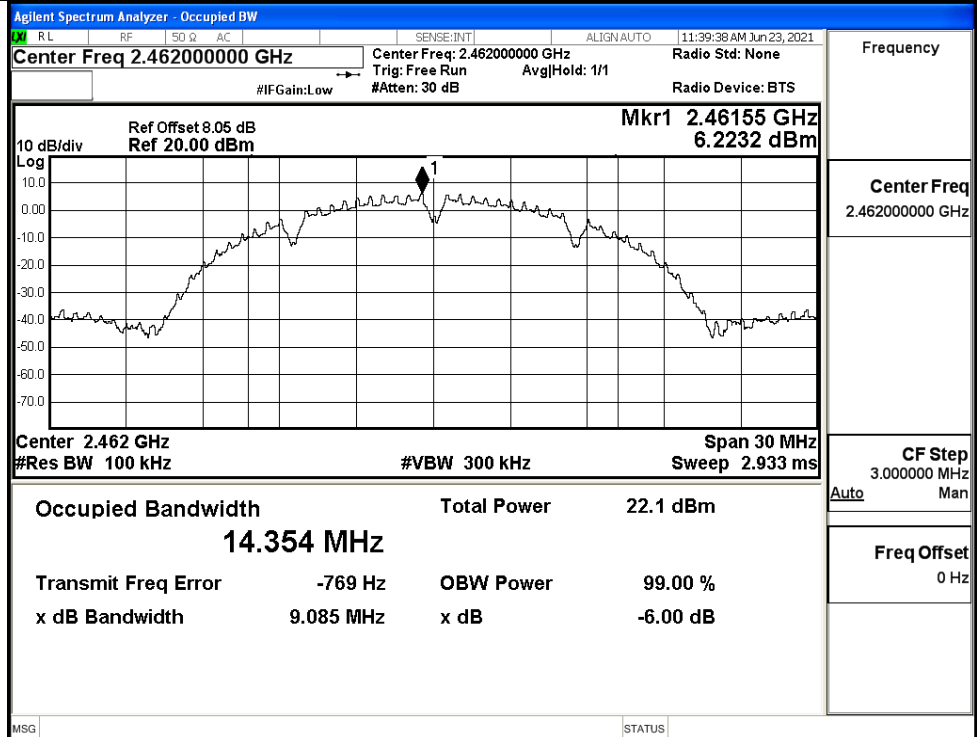




11B/MCH

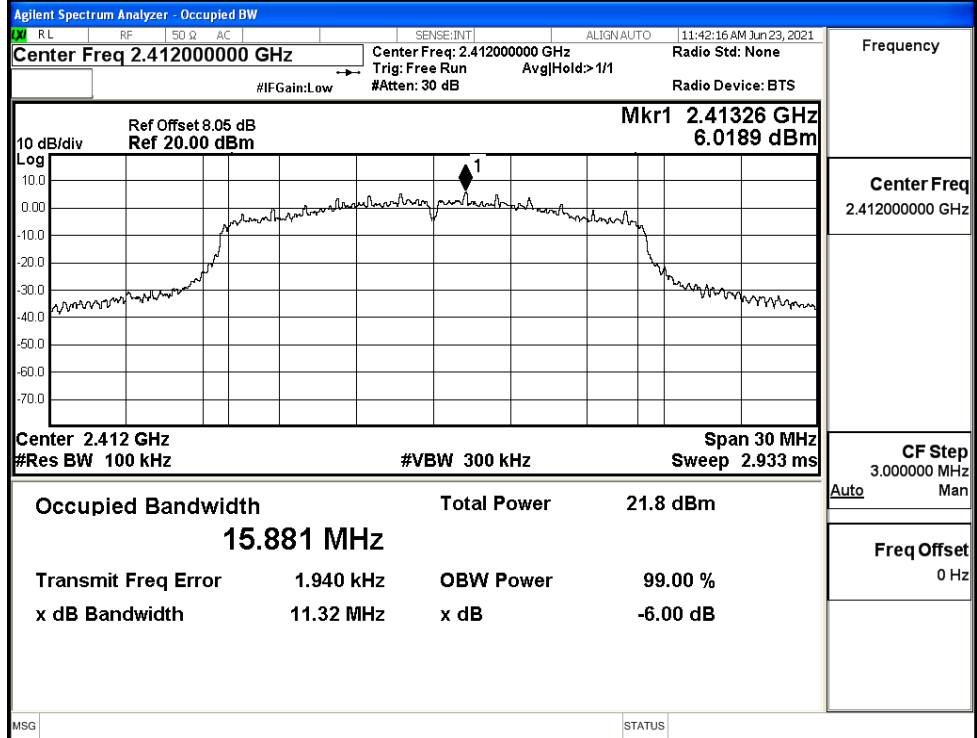


11B/HCH

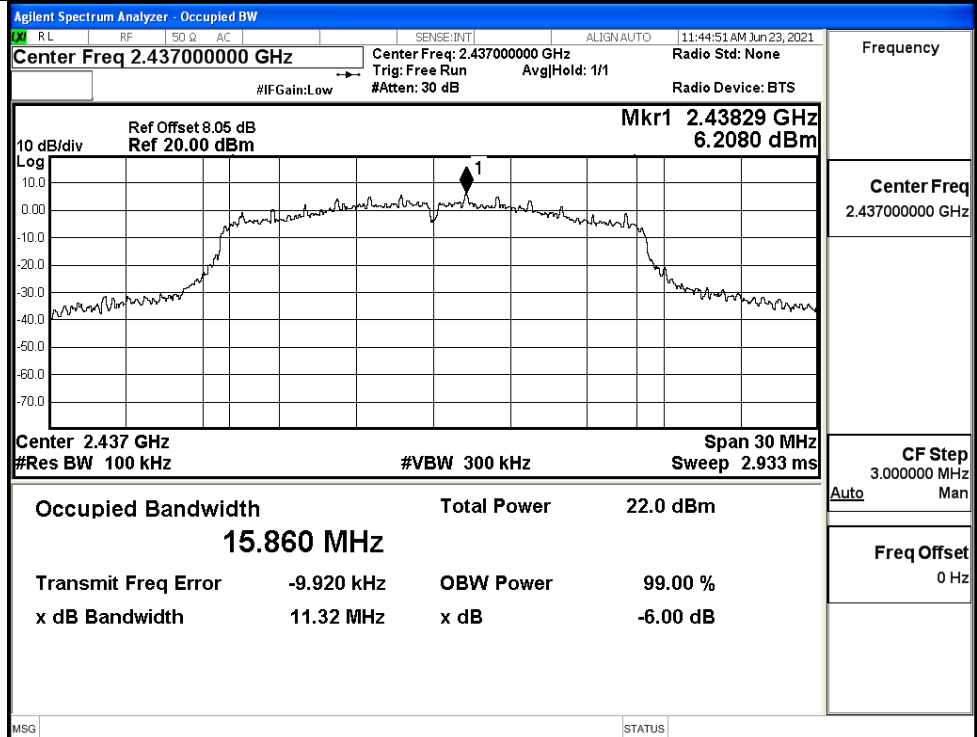




11G/LCH

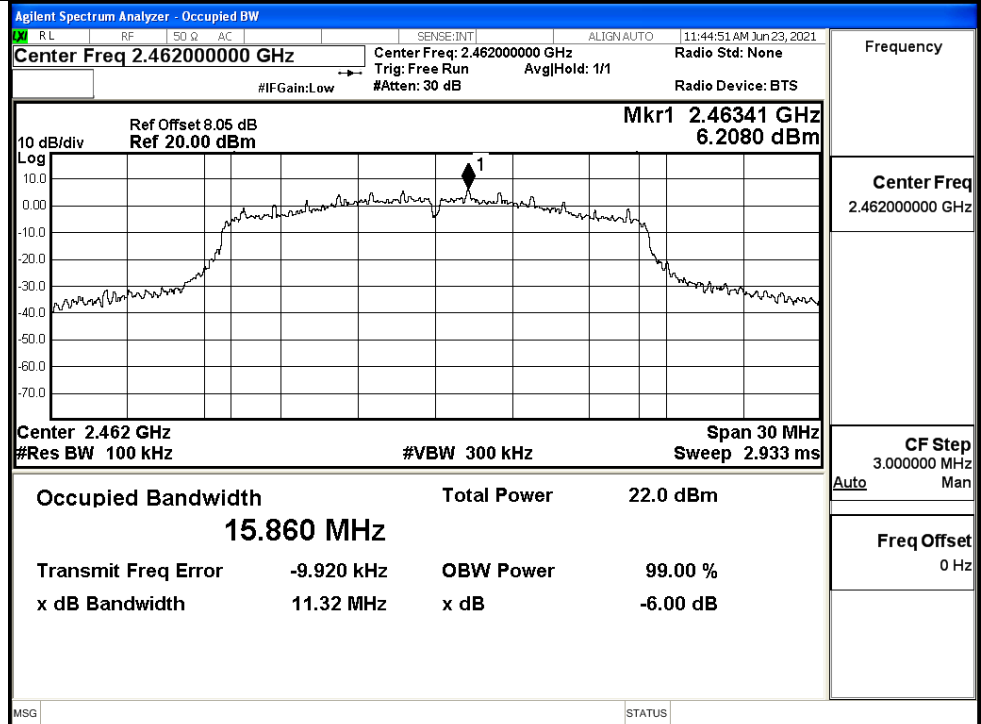


11G/MCH

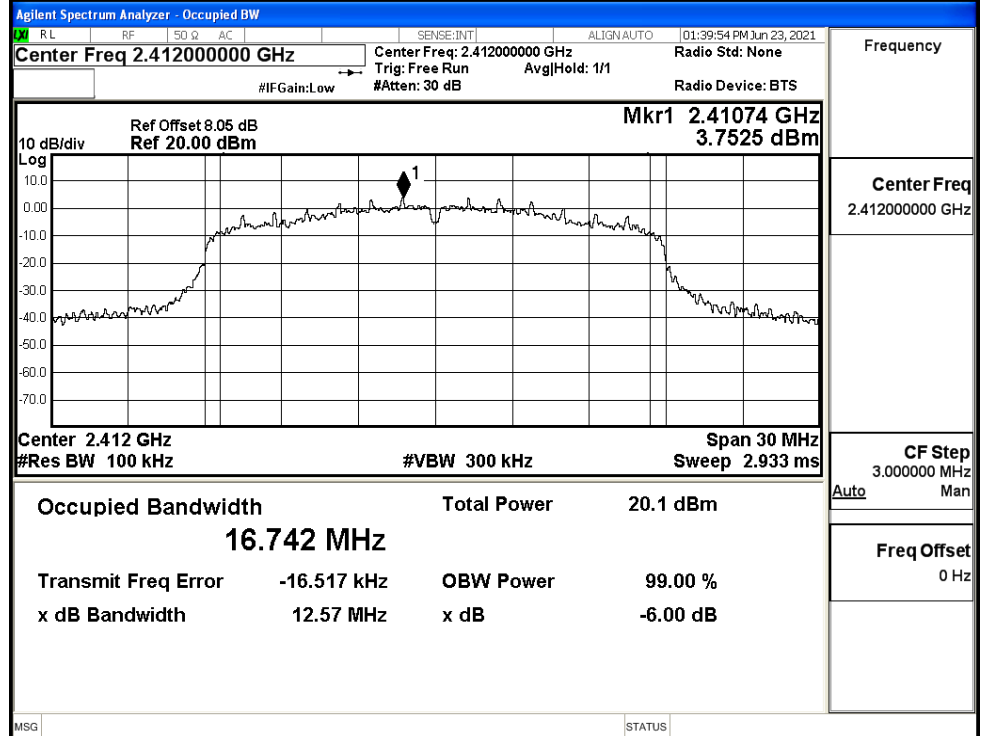




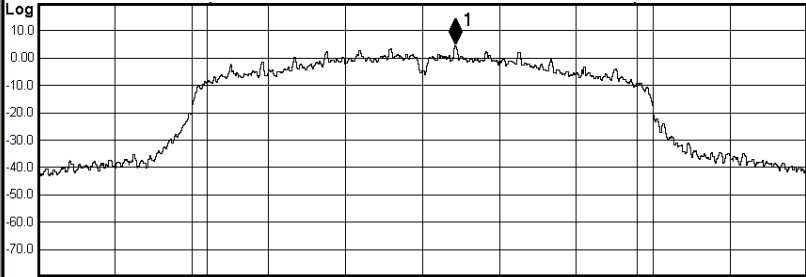
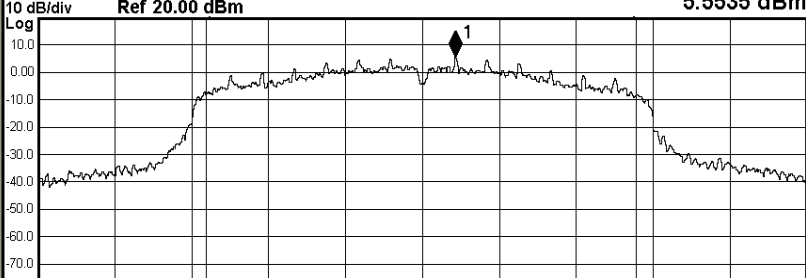
11G/HCH



11N20SISO/LCH

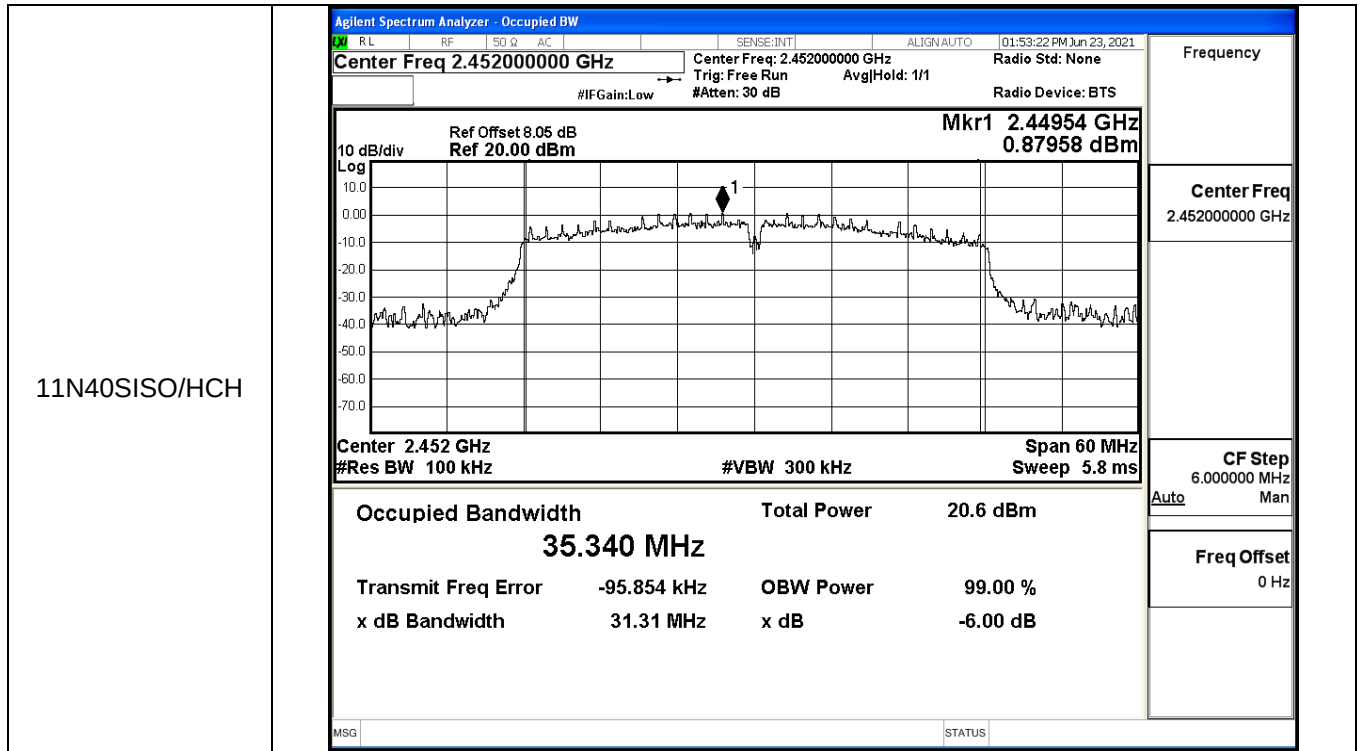




11N20SISO/MCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 01:42:30 PM Jun 23, 2021 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None #IF Gain: Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.43829 GHz 4.5197 dBm Log  Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 20.1 dBm 16.725 MHz Transmit Freq Error -11.286 kHz OBW Power 99.00 % x dB Bandwidth 10.11 MHz x dB -6.00 dB MSG STATUS Frequency Center Freq 2.437000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
11N20SISO/HCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 01:44:16 PM Jun 23, 2021 Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None #IF Gain: Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.46329 GHz 5.5535 dBm Log  Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 21.2 dBm 16.727 MHz Transmit Freq Error -38.081 kHz OBW Power 99.00 % x dB Bandwidth 11.29 MHz x dB -6.00 dB MSG STATUS Frequency Center Freq 2.462000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz



11N40SISO/LCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 01:49:07 PM Jun 23, 2021 Center Freq 2.422000000 GHz Center Freq: 2.422000000 GHz Trig: Free Run #IFGain: Low #Atten: 30 dB Radio Std: None Avg Hold: 1/1 Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.42452 GHz 1.0733 dBm Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth Total Power 20.6 dBm 35.302 MHz Transmit Freq Error -55.849 kHz OBW Power 99.00 % x dB Bandwidth 31.30 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 01:51:35 PM Jun 23, 2021 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run #IFGain: Low #Atten: 30 dB Radio Std: None Avg Hold: 1/1 Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.43454 GHz -0.020466 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth Total Power 19.6 dBm 35.292 MHz Transmit Freq Error -31.624 kHz OBW Power 99.00 % x dB Bandwidth 31.34 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



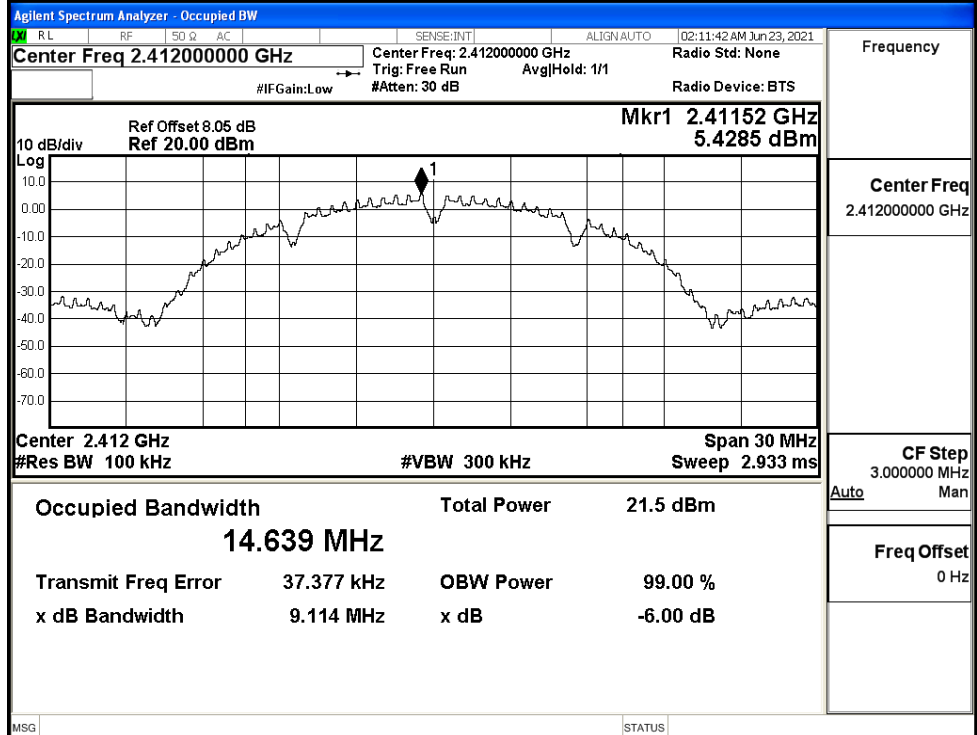
ANT1

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.114	≥ 0.5	PASS
	MCH	9.091	≥ 0.5	PASS
	HCH	9.090	≥ 0.5	PASS
11G	LCH	10.11	≥ 0.5	PASS
	MCH	11.33	≥ 0.5	PASS
	HCH	11.31	≥ 0.5	PASS
11N20SISO	LCH	11.37	≥ 0.5	PASS
	MCH	10.10	≥ 0.5	PASS
	HCH	11.30	≥ 0.5	PASS
11N40SISO	LCH	30.11	≥ 0.5	PASS
	MCH	31.32	≥ 0.5	PASS
	HCH	31.34	≥ 0.5	PASS

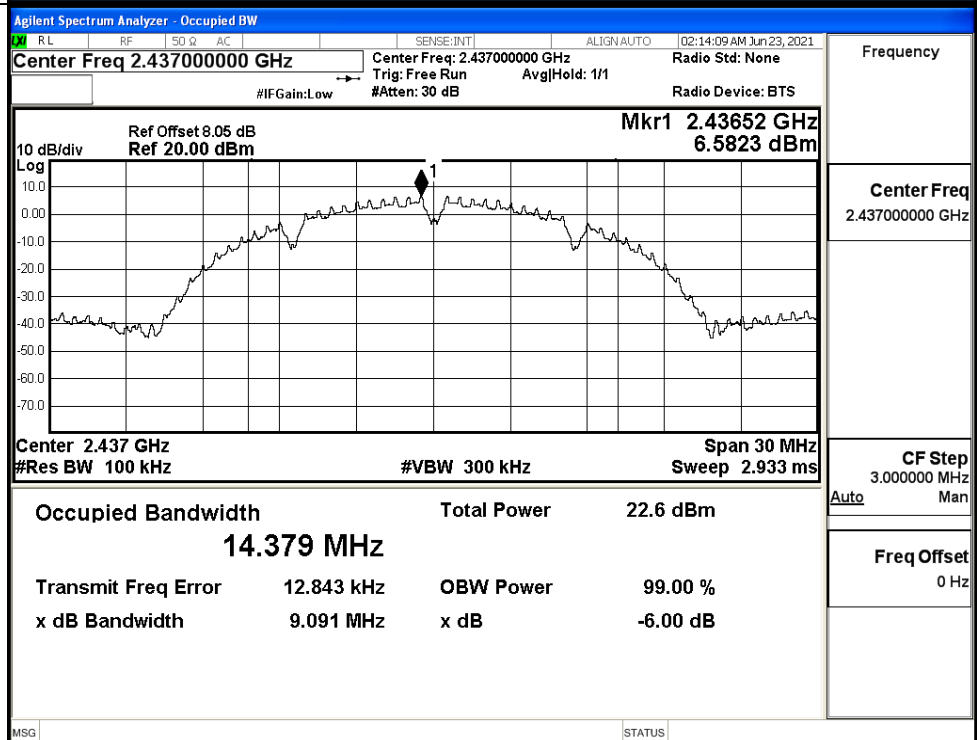


Test Graphs

11B/LCH

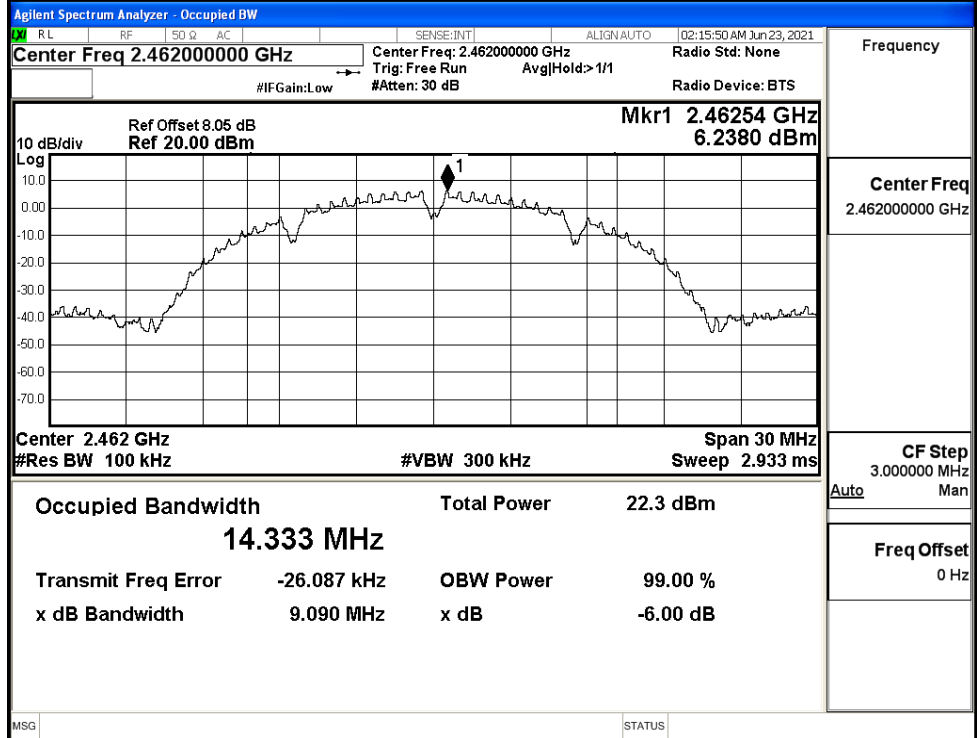


11B/MCH

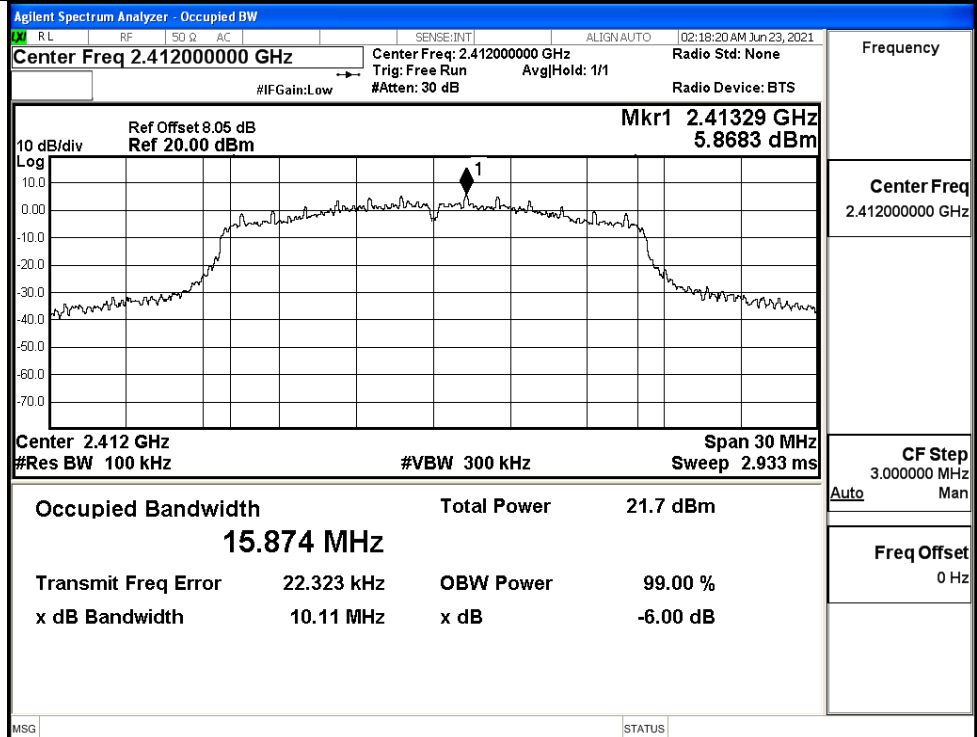




11B/HCH

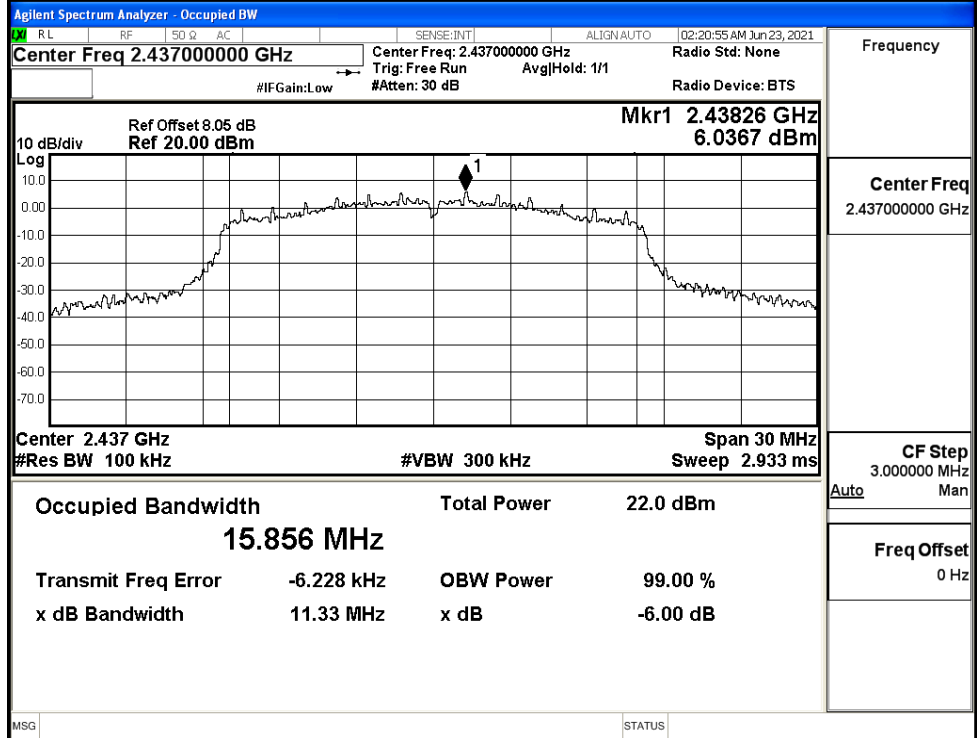


11G/LCH

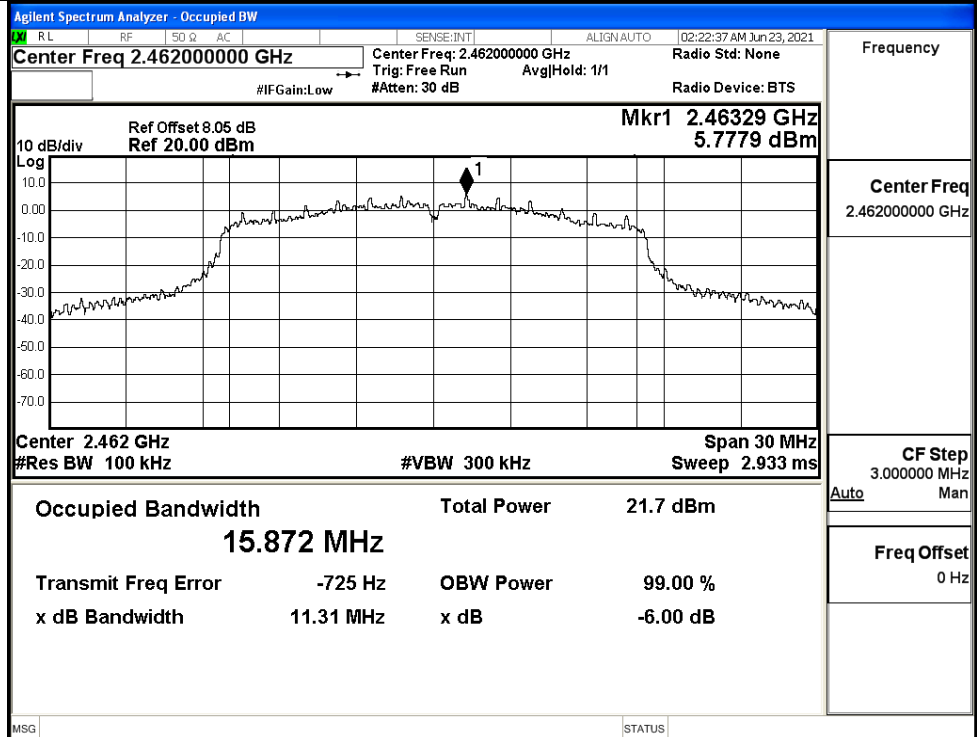




11G/MCH



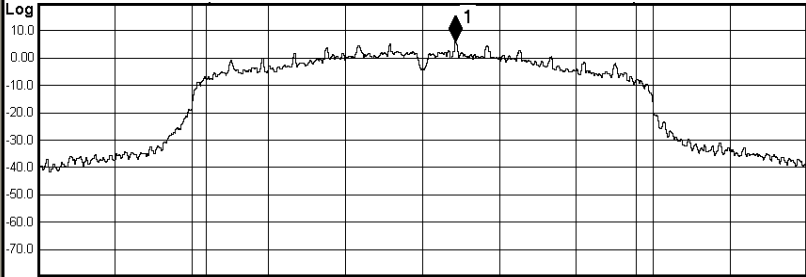
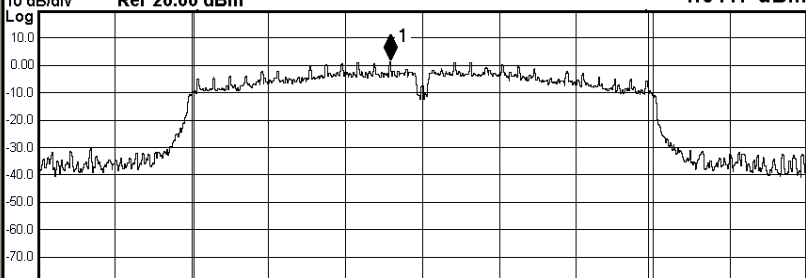
11G/HCH





11N20SISO/LCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:25:20 AM Jun 23, 2021 Center Freq 2.412000000 GHz Center Freq: 2.412000000 GHz Trig: Free Run #IFGain: Low #Atten: 30 dB Radio Std: None Radio Device: BTS Frequency Center Freq 2.412000000 GHz 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.41329 GHz 3.8142 dBm Log Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 20.3 dBm 16.735 MHz Transmit Freq Error -1.275 kHz OBW Power 99.00 % x dB Bandwidth 11.37 MHz x dB -6.00 dB CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz MSG STATUS
11N20SISO/MCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:27:44 AM Jun 23, 2021 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run #IFGain: Low #Atten: 30 dB Radio Std: None Radio Device: BTS Frequency Center Freq 2.437000000 GHz 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.43829 GHz 4.6908 dBm Log Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 20.3 dBm 16.718 MHz Transmit Freq Error -14.812 kHz OBW Power 99.00 % x dB Bandwidth 10.10 MHz x dB -6.00 dB CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz MSG STATUS



11N20SISO/HCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:41:07 AM Jun 23, 2021 Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Radio Std: None #IF Gain: Low Trig: Free Run Avg/Hold: 1/1 #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.46329 GHz 5.8194 dBm  Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth Total Power 21.4 dBm 16.735 MHz Transmit Freq Error -36.152 kHz OBW Power 99.00 % x dB Bandwidth 11.30 MHz x dB -6.00 dB MSG STATUS	Frequency Center Freq 2.462000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
11N40SISO/LCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:43:47 AM Jun 23, 2021 Center Freq 2.422000000 GHz Center Freq: 2.422000000 GHz Radio Std: None #IF Gain: Low Trig: Free Run Avg/Hold: 1/1 #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.41948 GHz 1.3417 dBm  Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth Total Power 20.9 dBm 35.299 MHz Transmit Freq Error -51.226 kHz OBW Power 99.00 % x dB Bandwidth 30.11 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 02:46:18 AM Jun 23, 2021 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None #IFGain:Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.43958 GHz 0.24126 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth Total Power 20.0 dBm 35.312 MHz Transmit Freq Error -49.541 kHz OBW Power 99.00 % x dB Bandwidth 31.32 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
11N40SISO/HCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN:Auto 01:53:22 PM Jun 23, 2021 Center Freq 2.452000000 GHz Center Freq: 2.452000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None #IFGain:Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.44954 GHz 0.87958 dBm Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth Total Power 20.6 dBm 35.332 MHz Transmit Freq Error 9.8894 MHz OBW Power 99.00 % x dB Bandwidth 31.34 MHz x dB -6.00 dB MSG STATUS Frequency Center Freq 2.452000000 GHz CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz

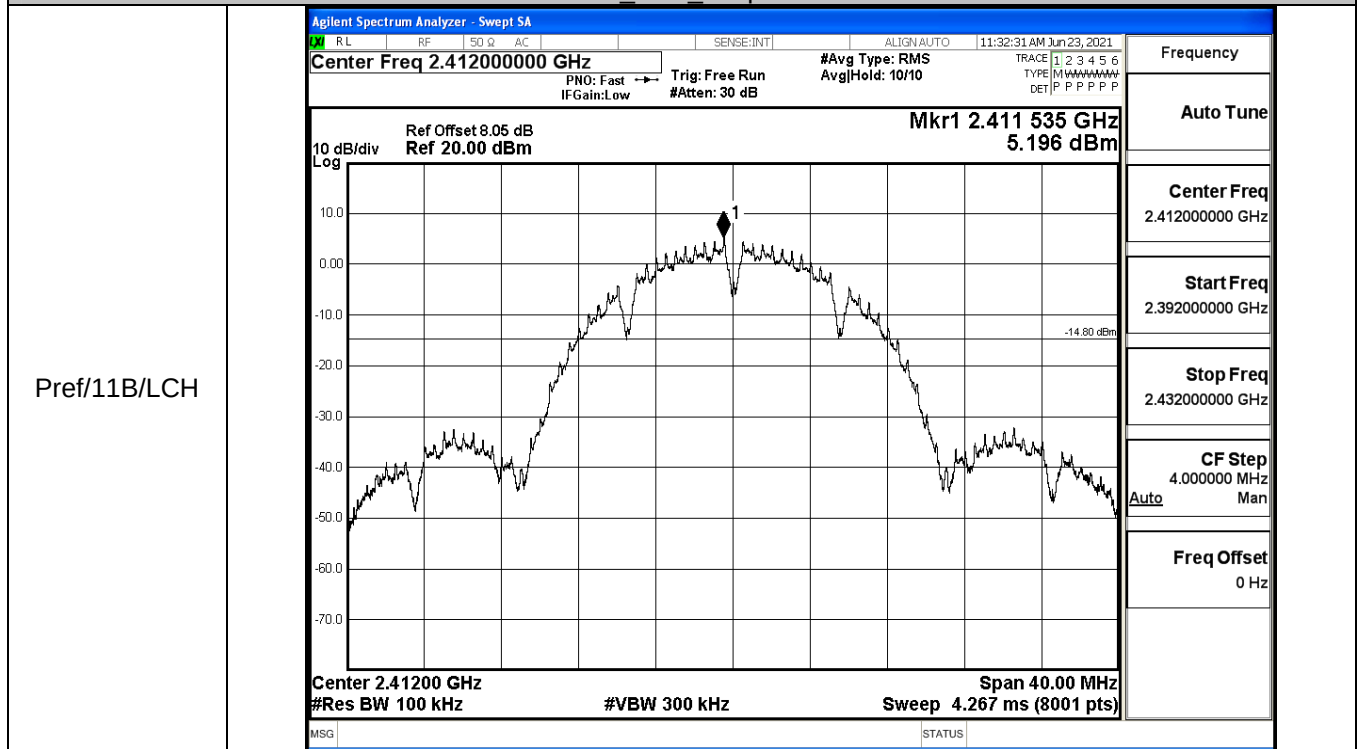


A.5 RF Conducted Spurious Emissions

ANT0

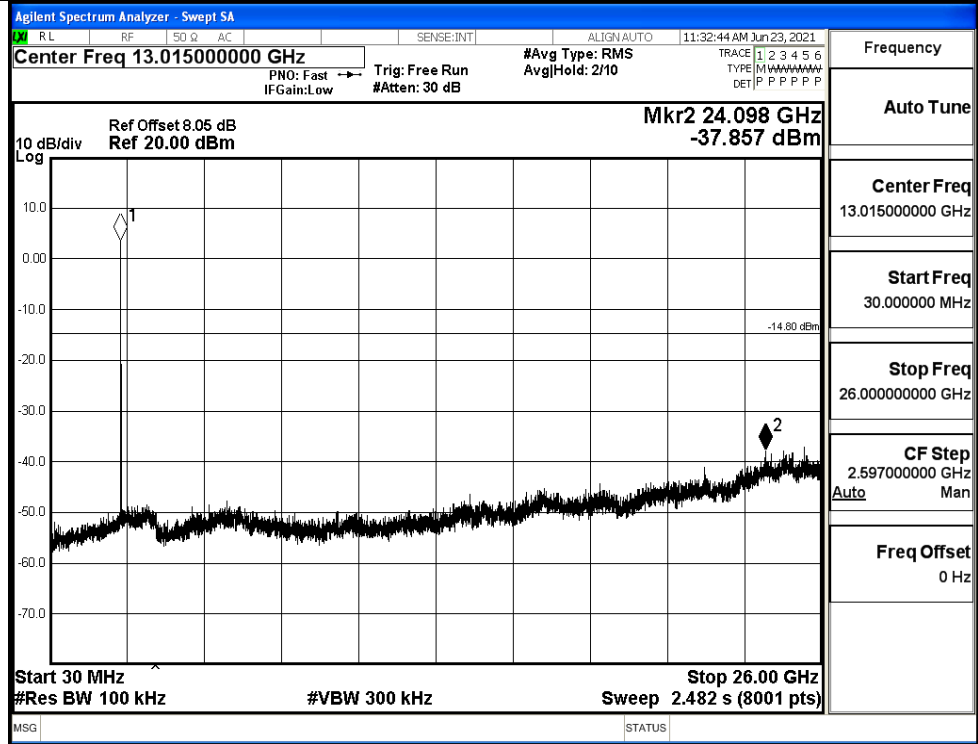
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	5.196	-37.857	-14.804	PASS
	MCH	6.229	-38.547	-13.771	PASS
	HCH	5.926	-38.409	-14.074	PASS
11G	LCH	4.824	-38.795	-15.176	PASS
	MCH	5.272	-38.141	-14.728	PASS
	HCH	6.226	-38.293	-13.774	PASS
11N20 SISO	LCH	3.419	-37.840	-16.581	PASS
	MCH	3.318	-37.524	-16.682	PASS
	HCH	4.403	-37.067	-15.597	PASS
11N40 SISO	LCH	-0.267	-38.789	-20.267	PASS
	MCH	-0.694	-37.768	-20.694	PASS
	HCH	0.412	-37.318	-19.588	PASS

11B LCH Graphs





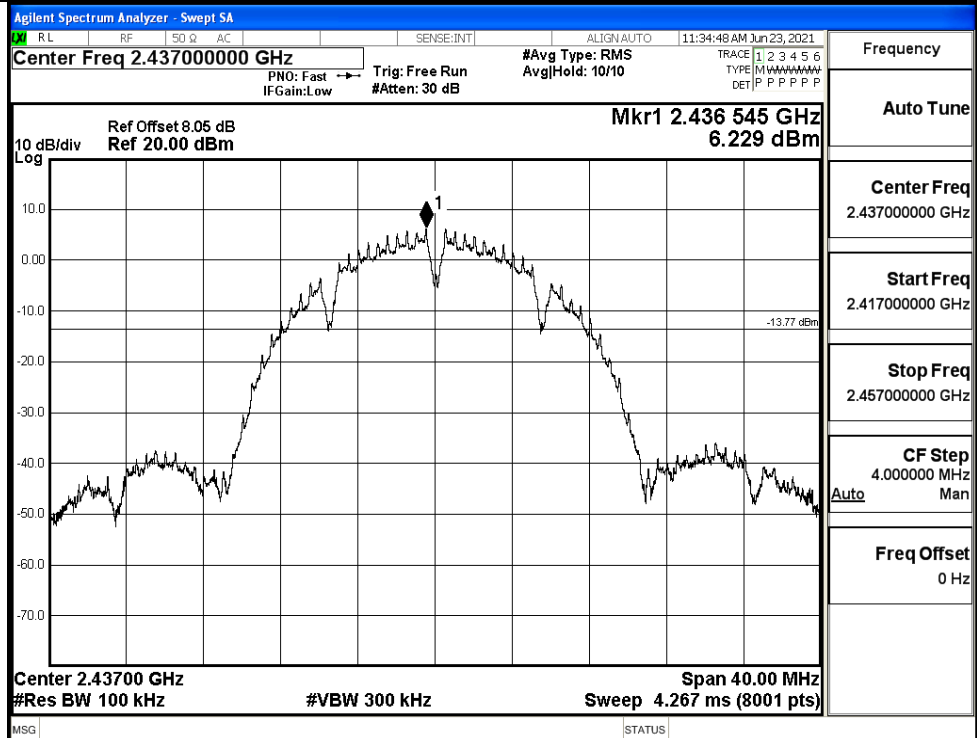
Puw/11B/LCH



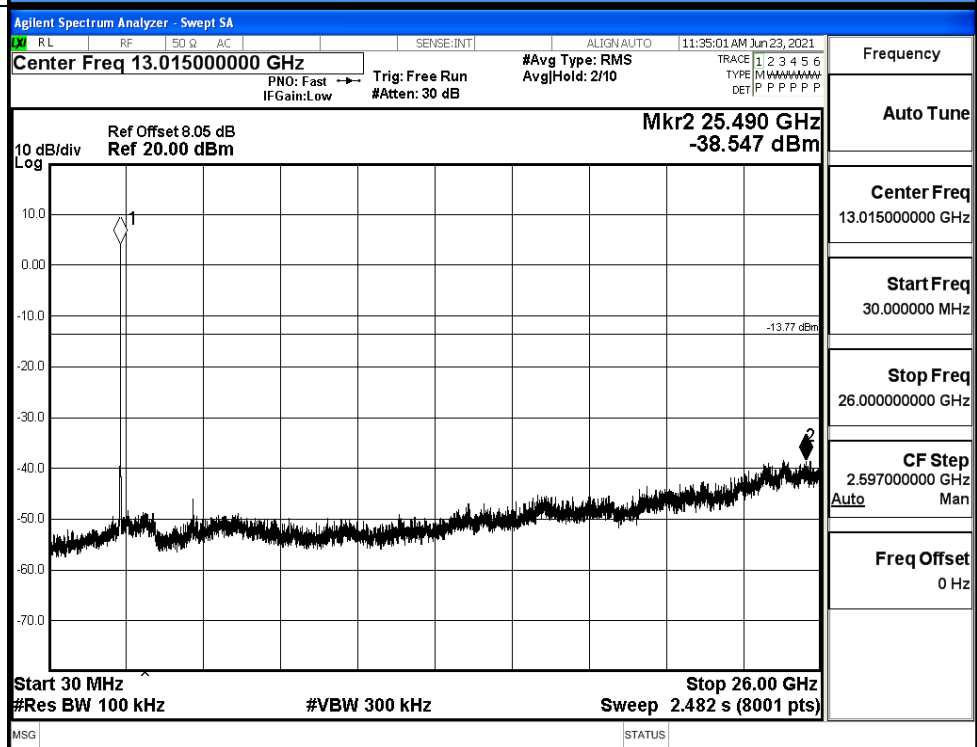


11B MCH Graphs

Pref/11B/MCH



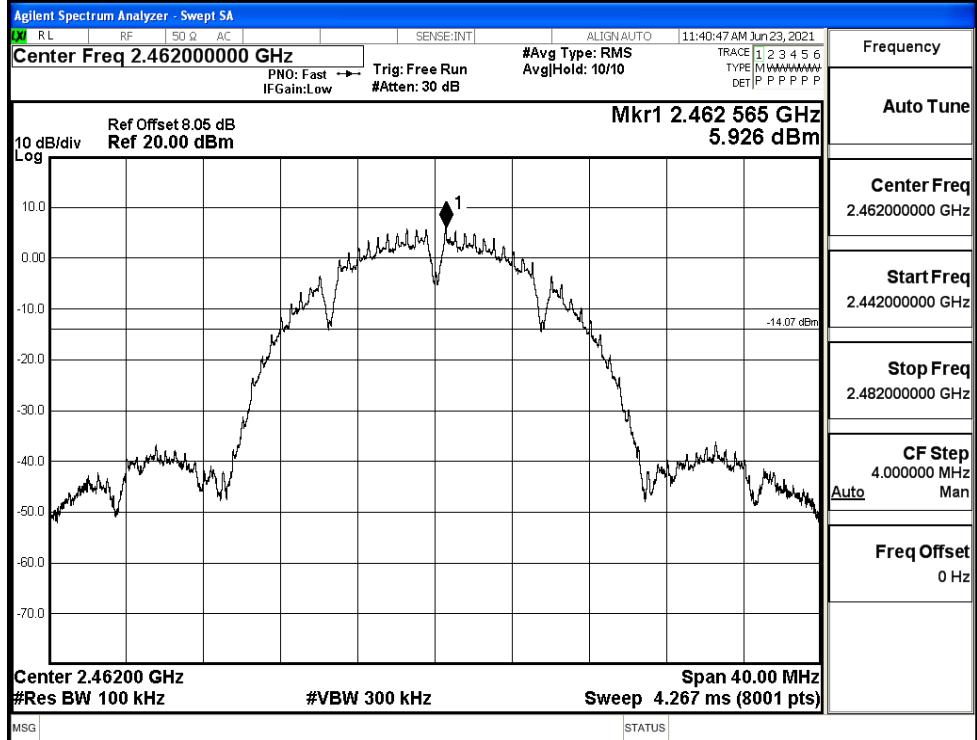
Puw/11B/MCH



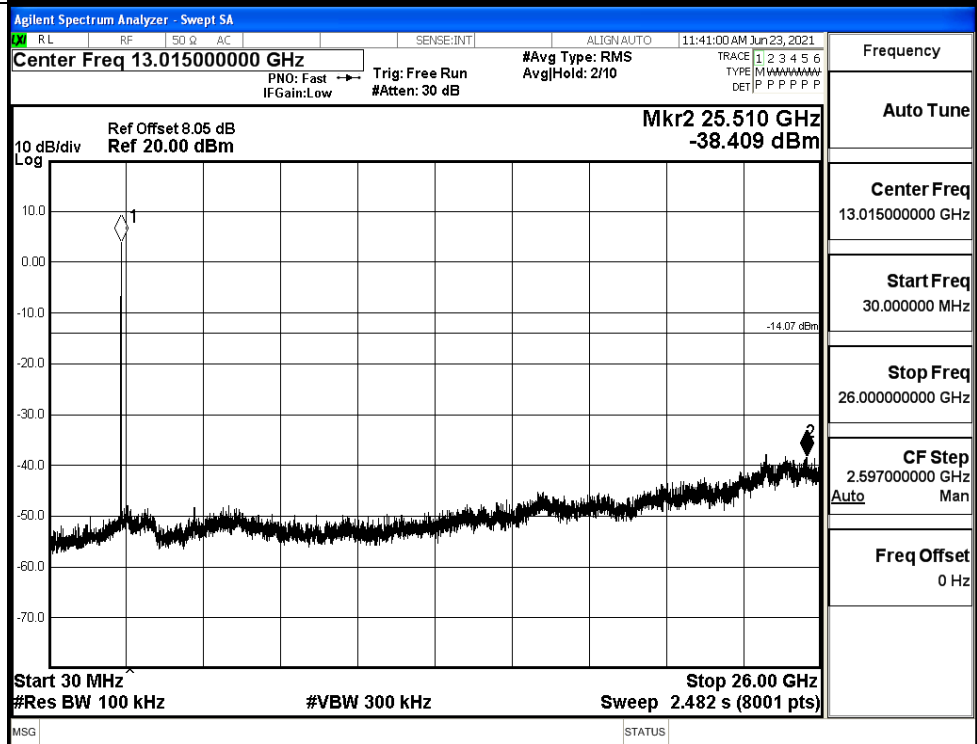


11B HCH Graphs

Pref/11B/HCH



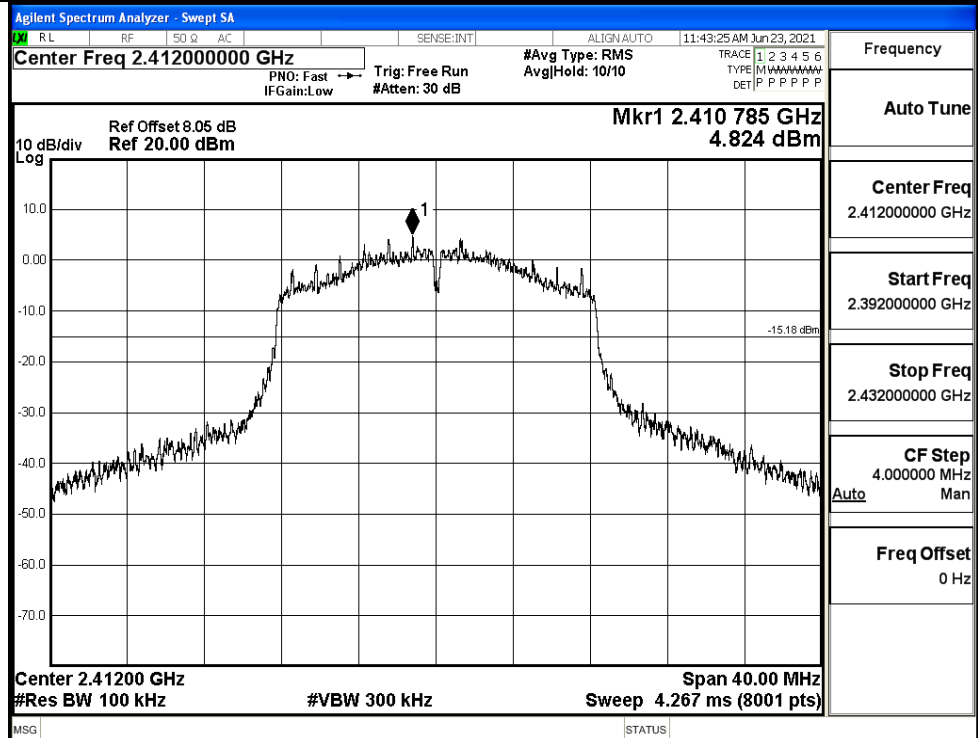
Puw/11B/HCH



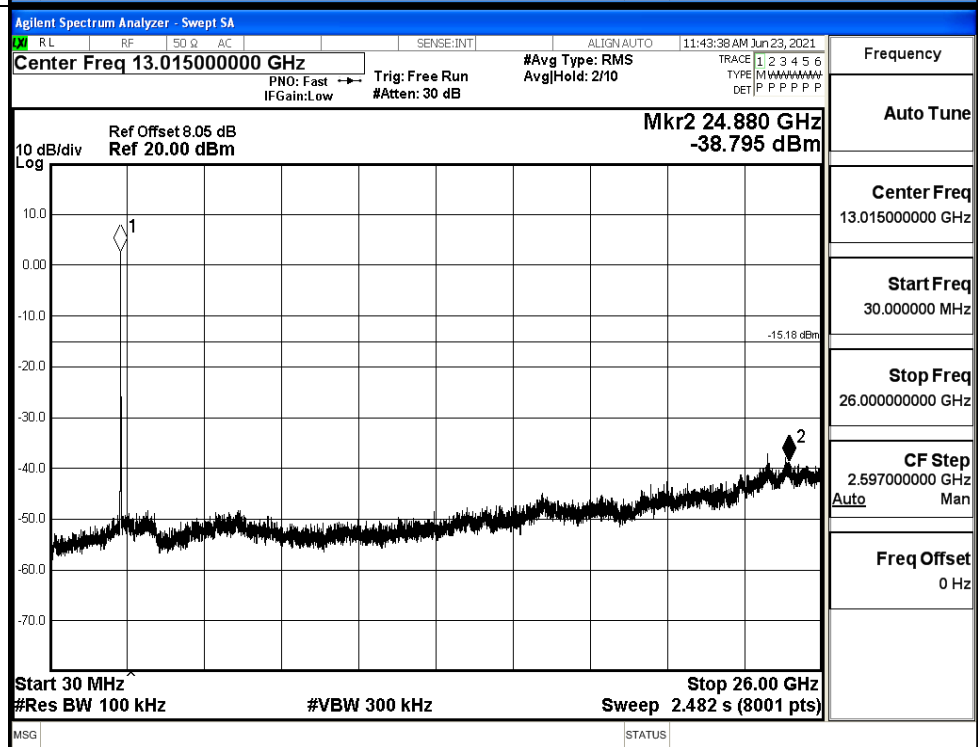


11G LCH Graphs

Pref/11G/LCH



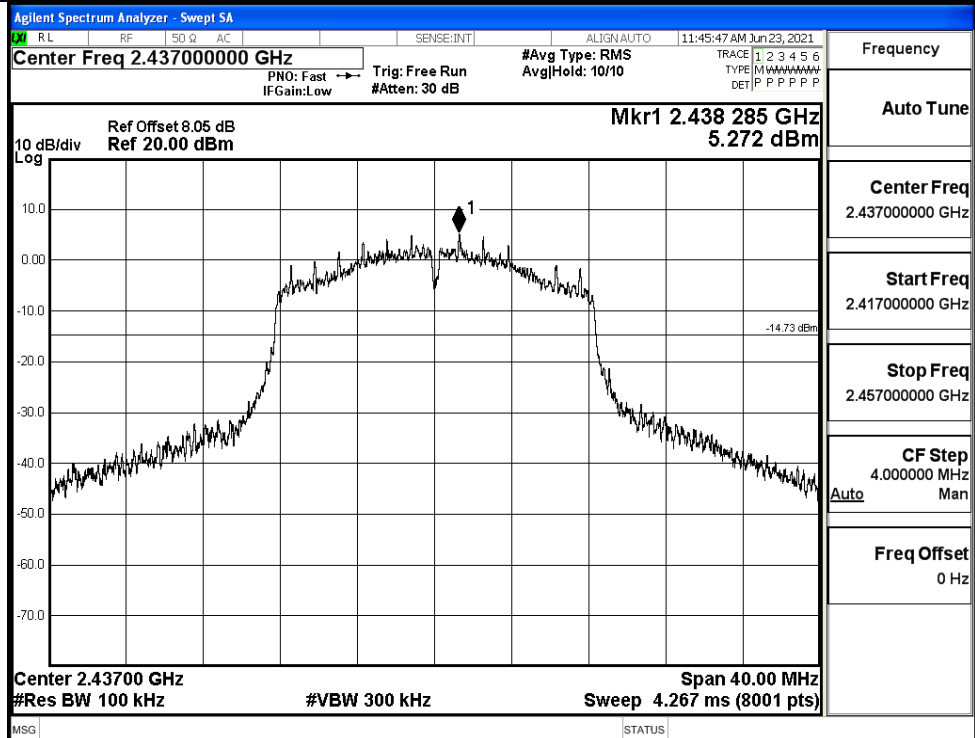
Puw/11G/LCH



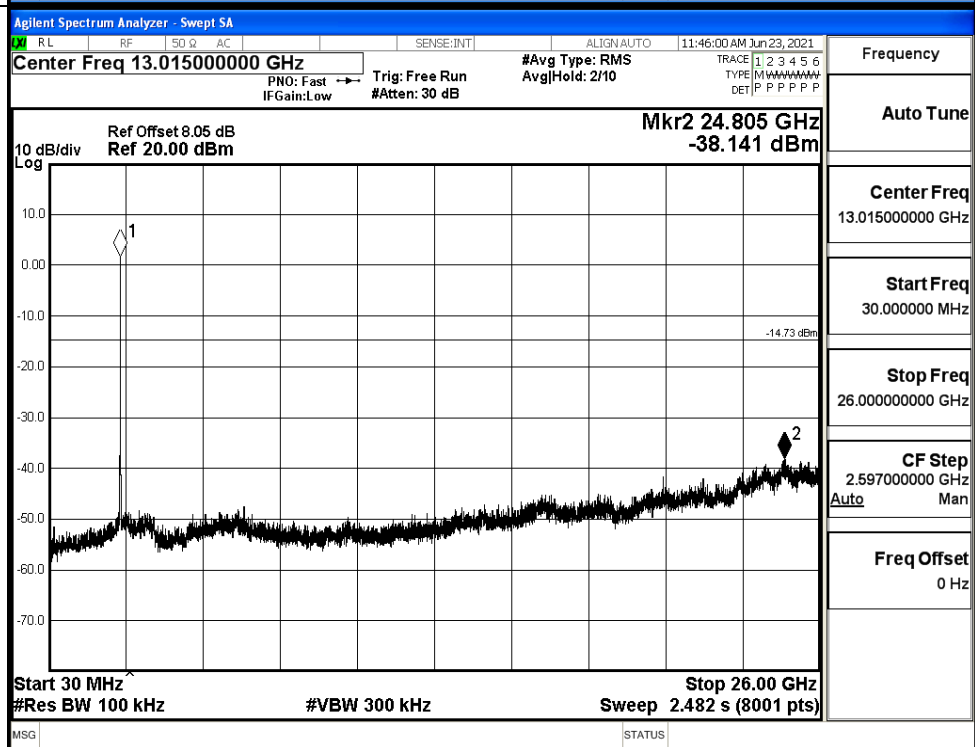


11G MCH Graphs

Pref/11G/MCH



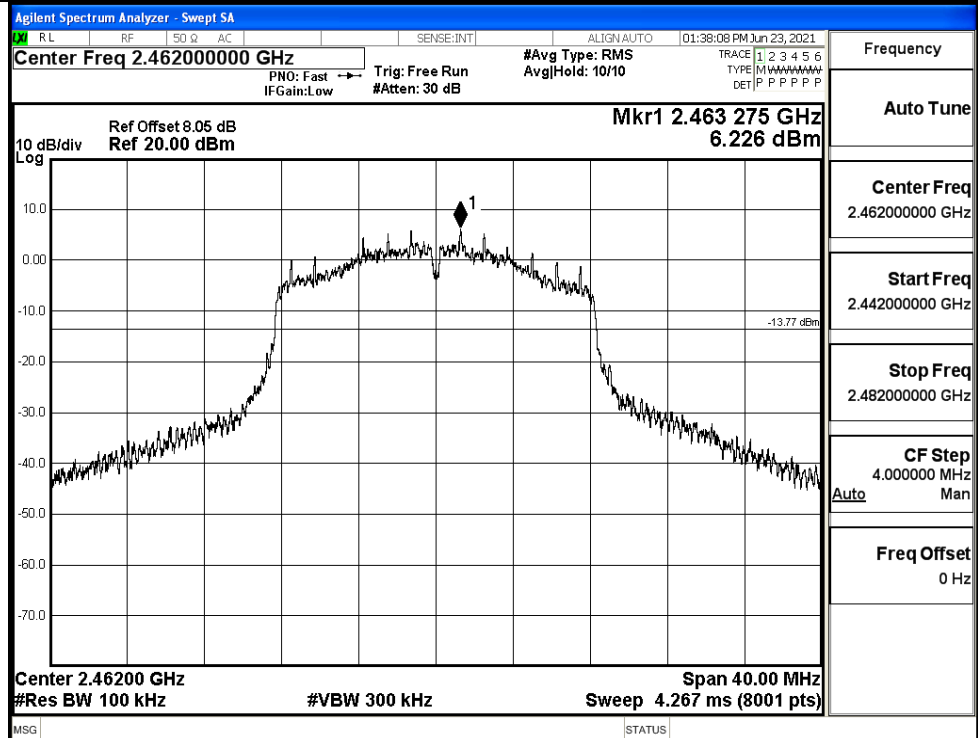
Puw/11G/MCH



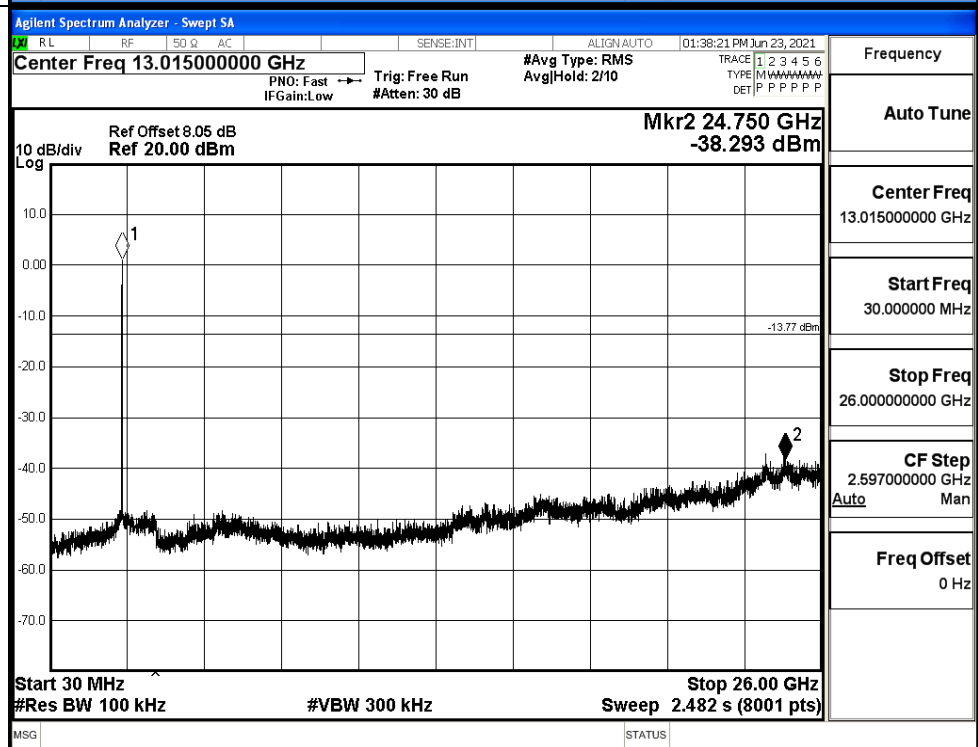


11G HCH Graphs

Pref/11G/HCH



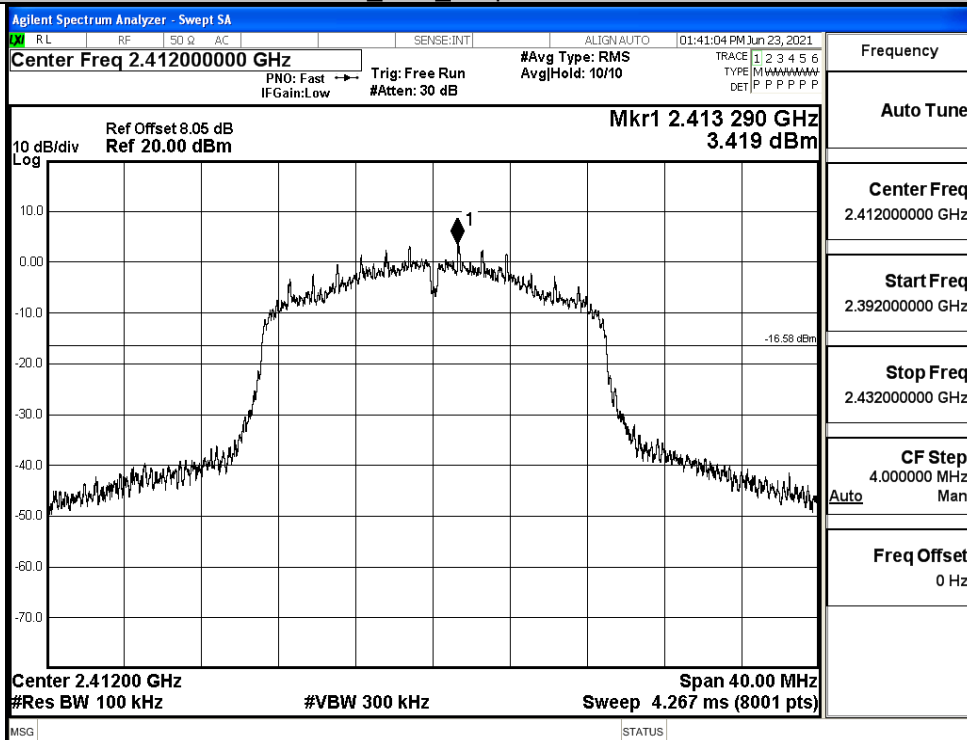
Puw/11G/HCH



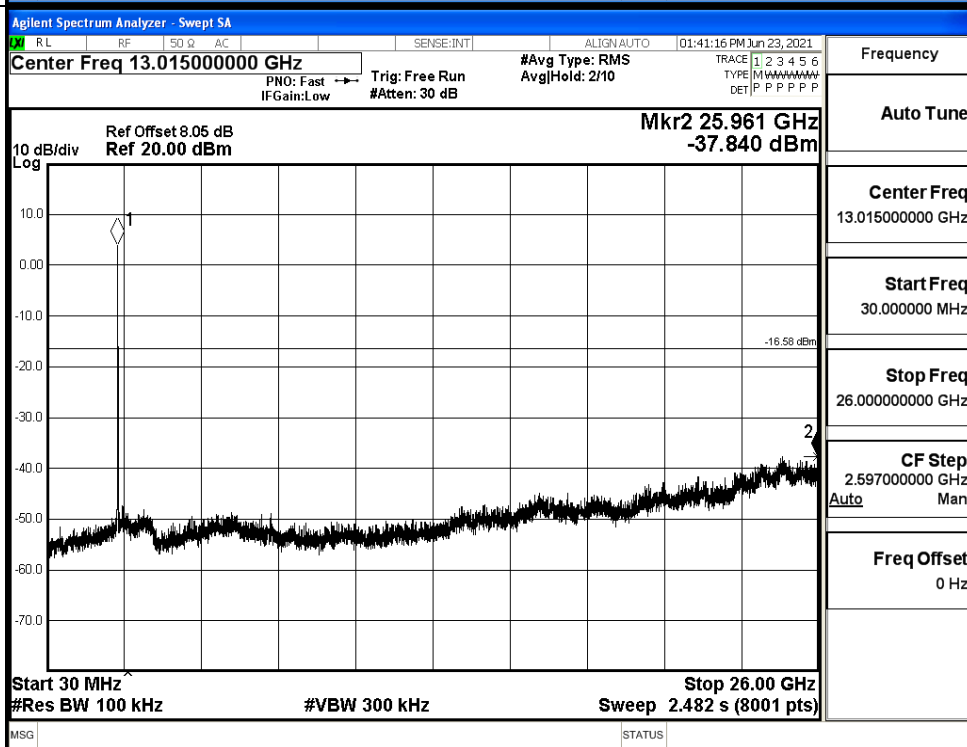


11N20SISO LCH Graphs

Pref/11N20SIS
O/LCH



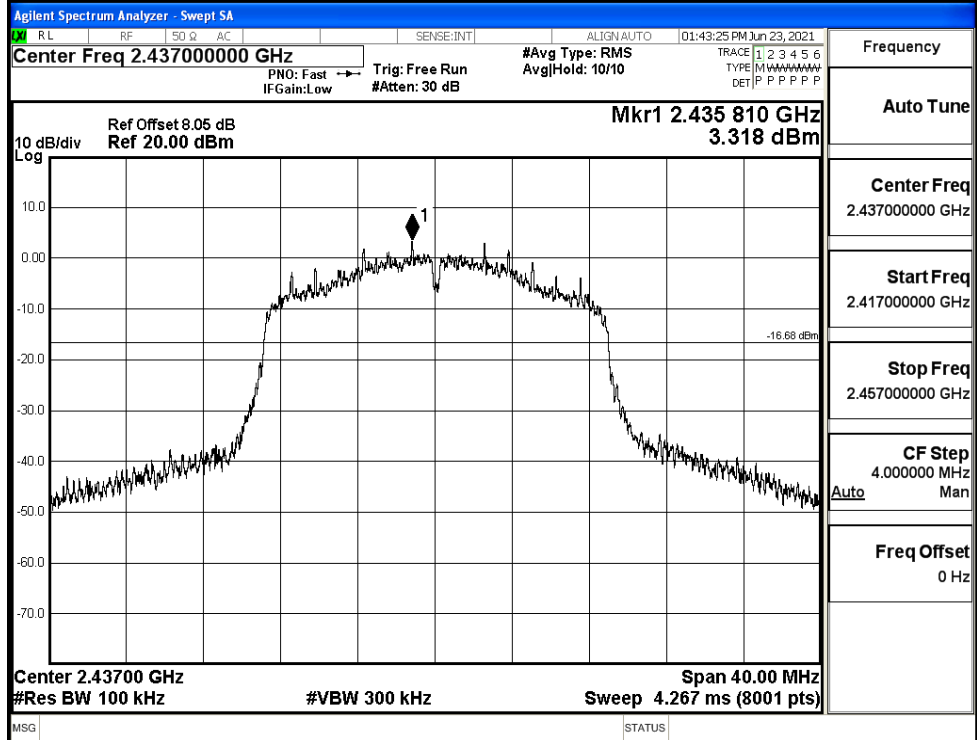
Puw/11N20
SISO/LCH



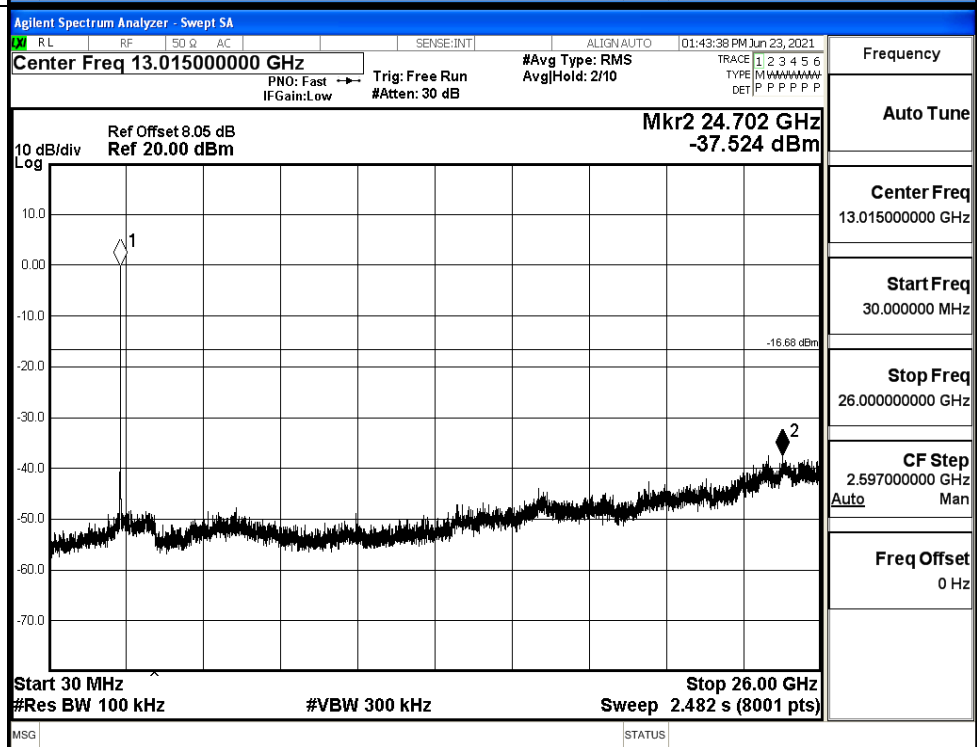


11N20SISO MCH Graphs

Pref/11N20
SISO/MCH



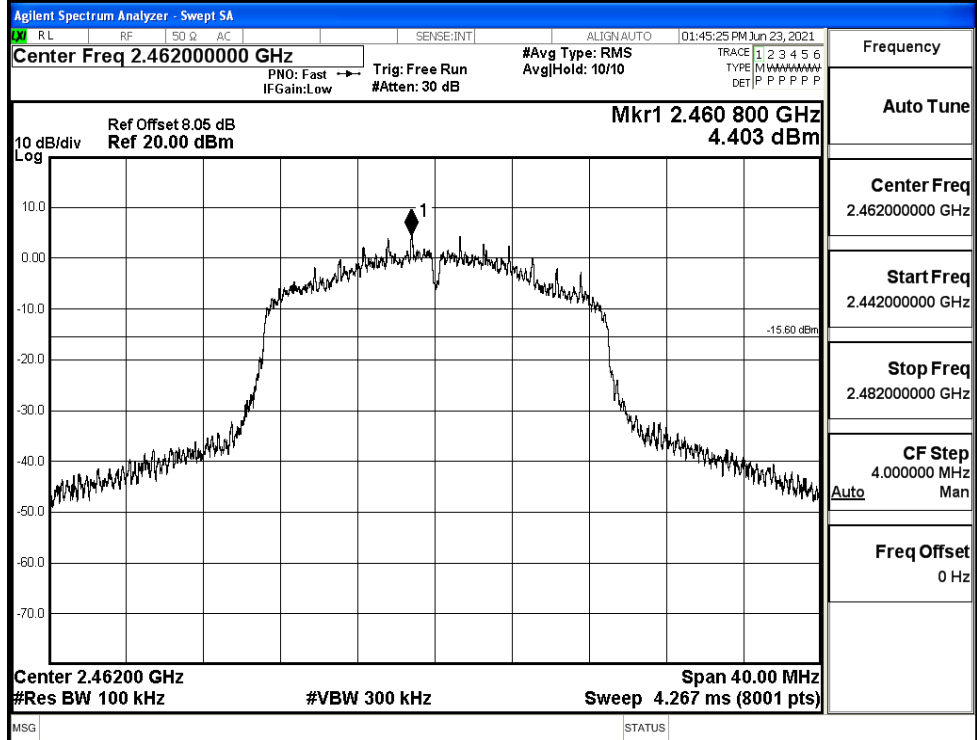
Puw/11N20
SISO/MCH



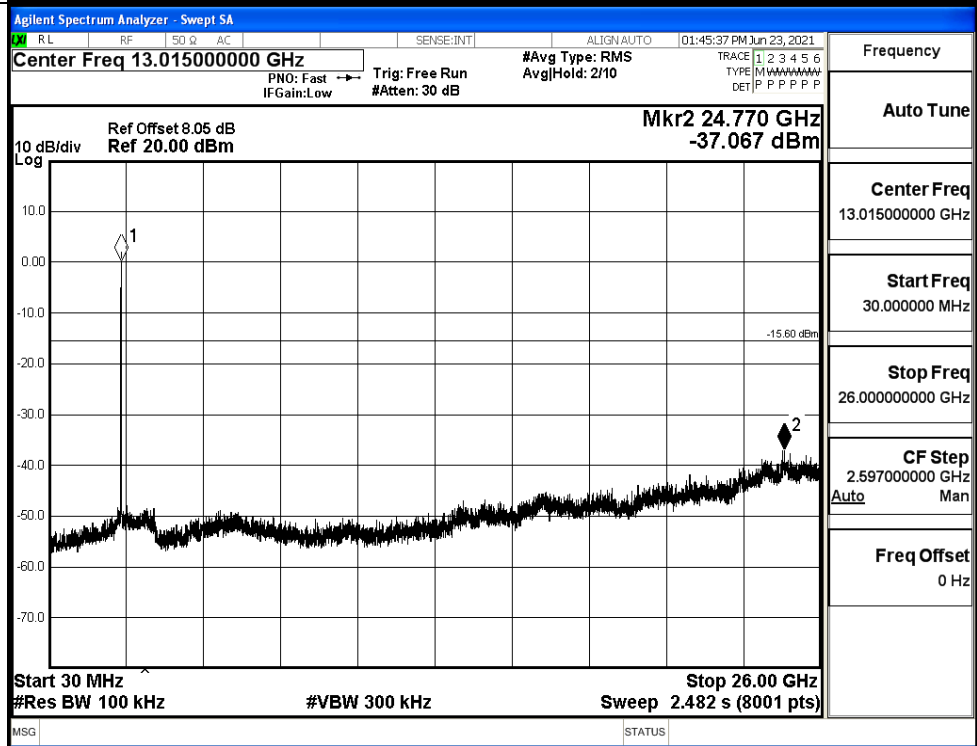


11N20SISO HCH Graphs

Pref/11N20
SISO/HCH



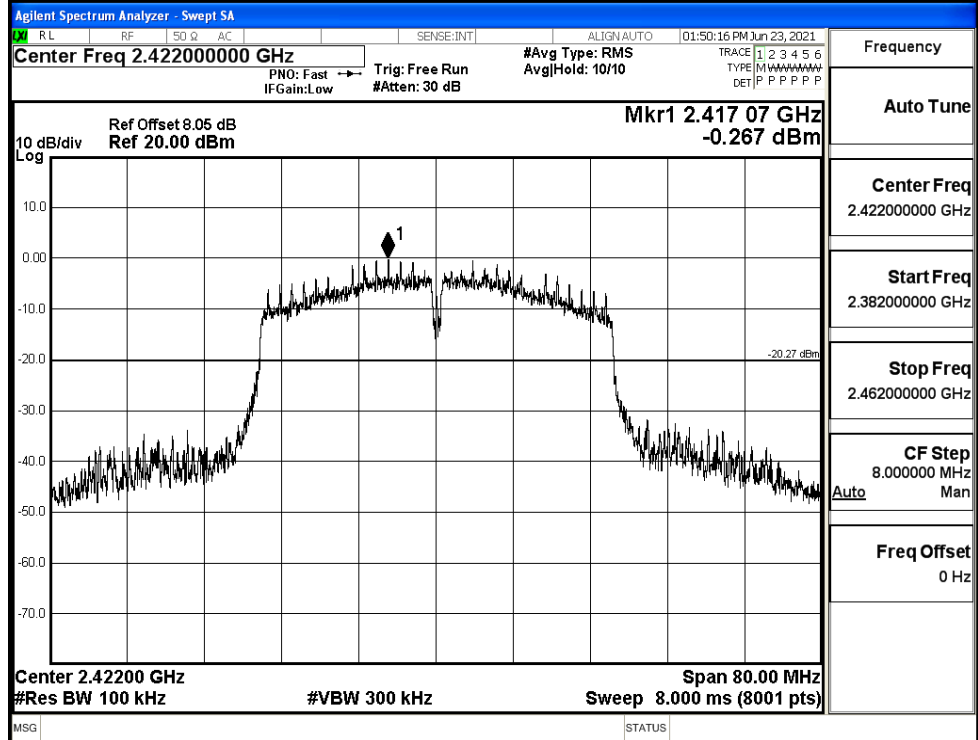
Puw/11N20
SISO/HCH



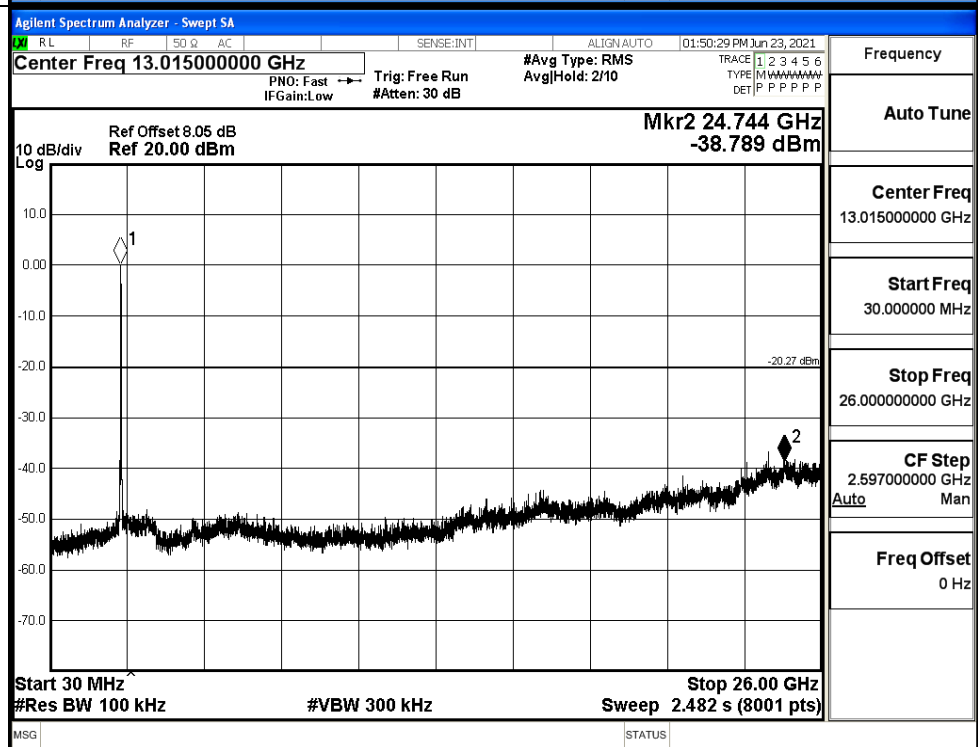


11N40SISO LCH Graphs

Pref/11N40
SISO/LCH



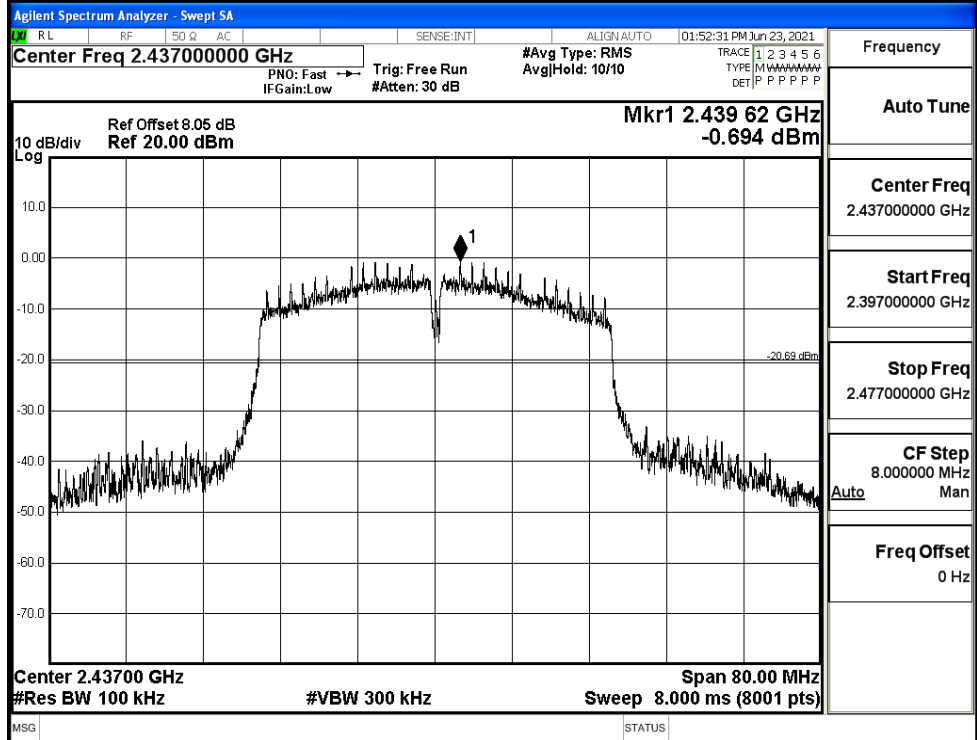
Puw/11N40
SISO/LCH



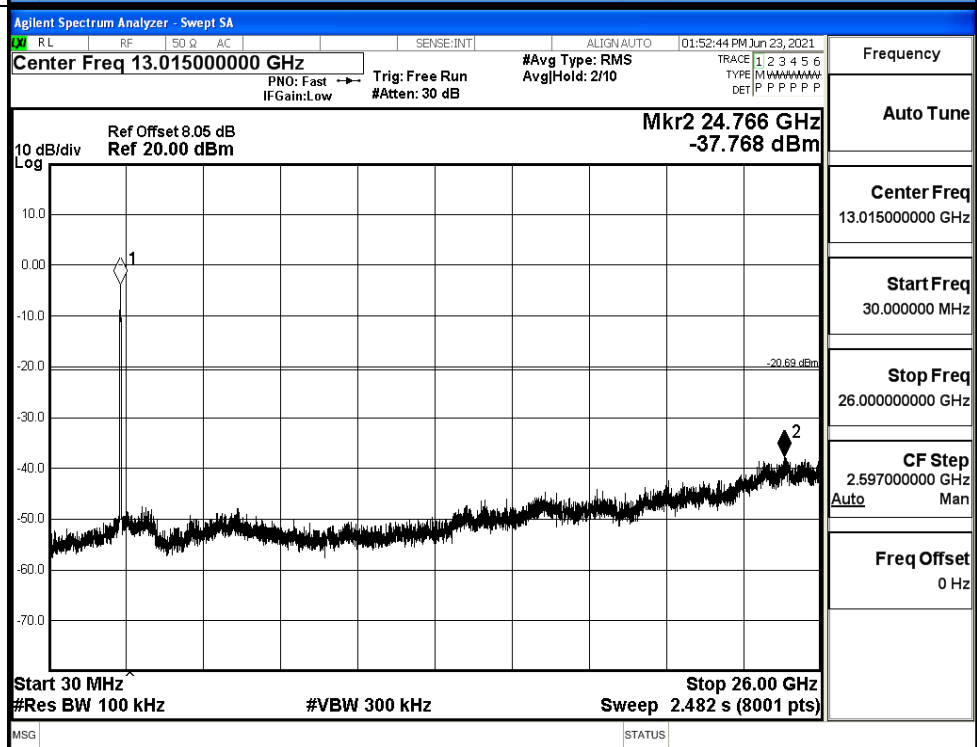


11N40SISO MCH Graphs

Pref/11N40
SISO/MCH



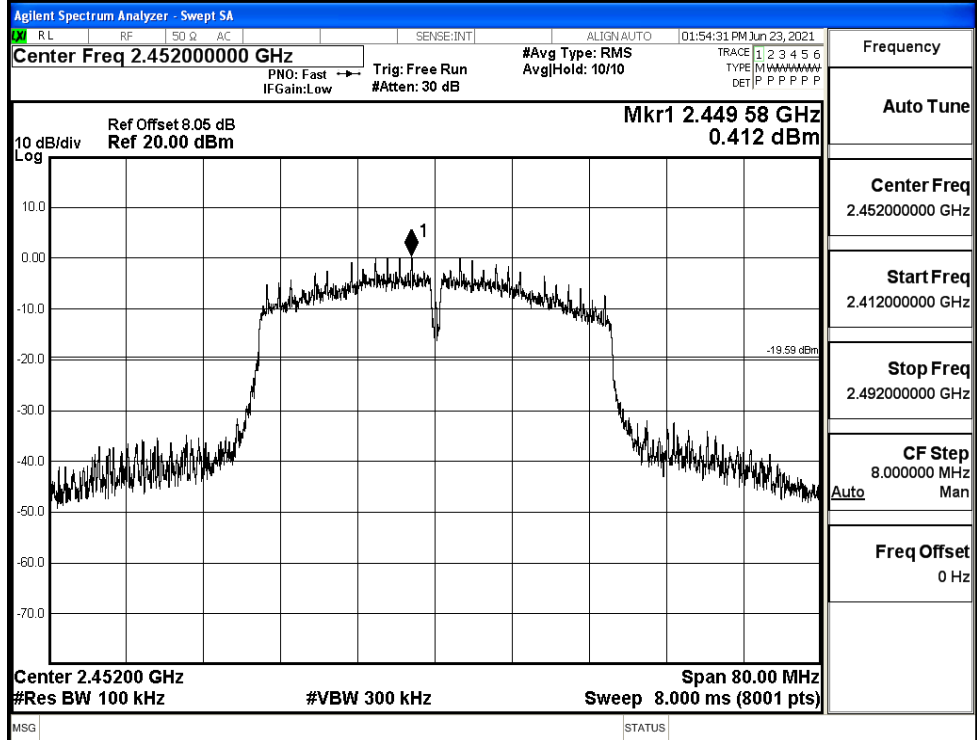
Puw/11N40
SISO/MCH



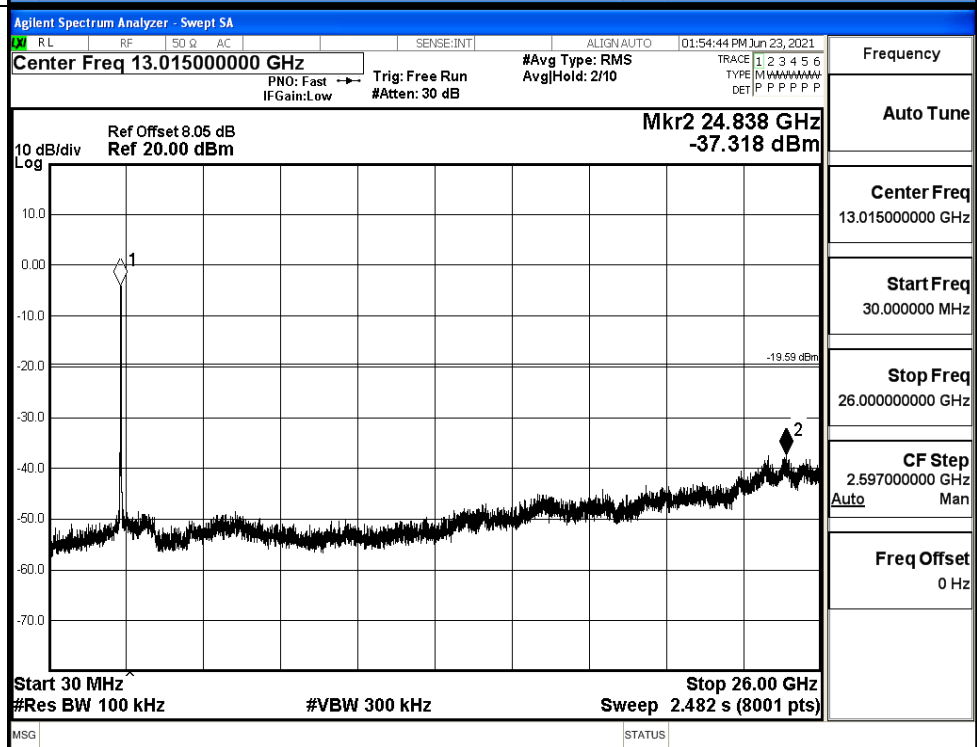


11N40SISO HCH Graphs

Pref/11N40
SISO/HCH



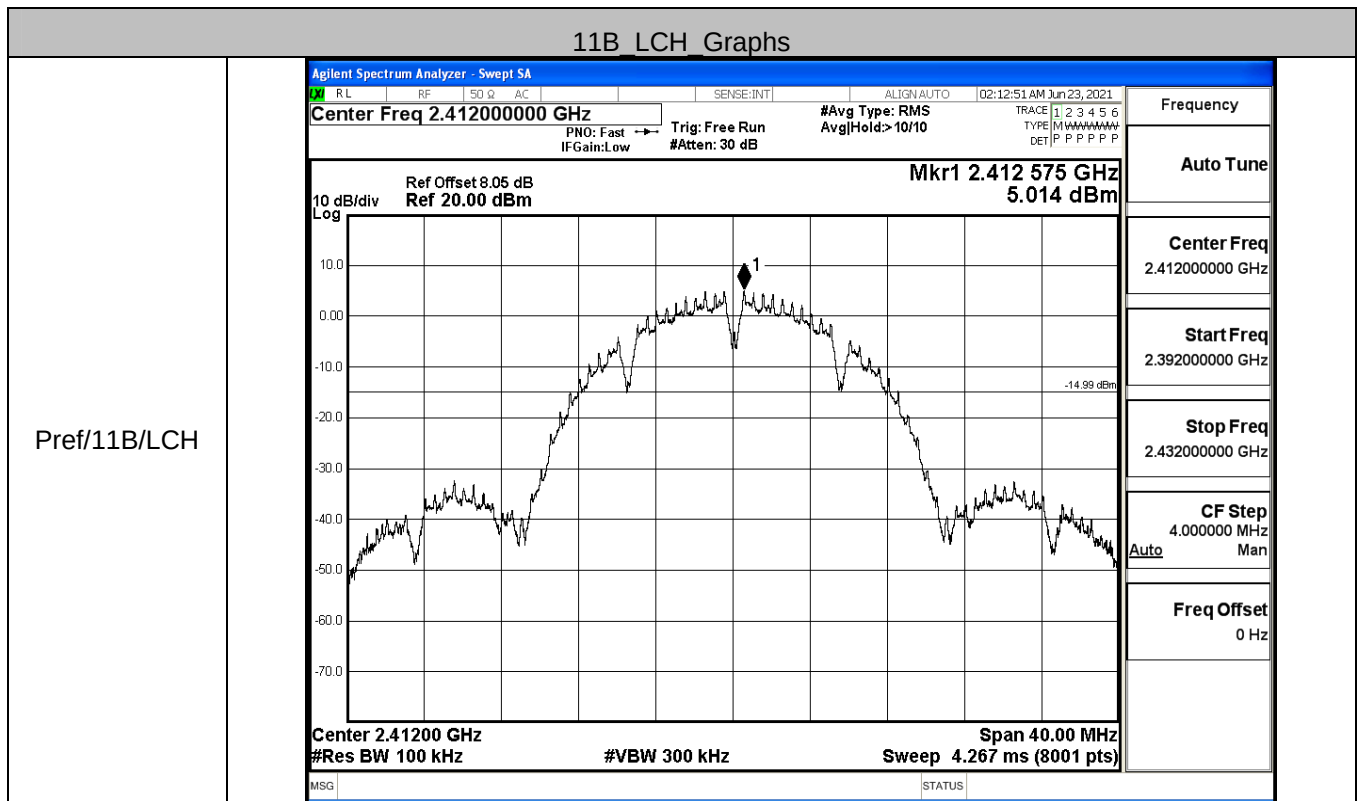
Puw/11N40
SISO/HCH





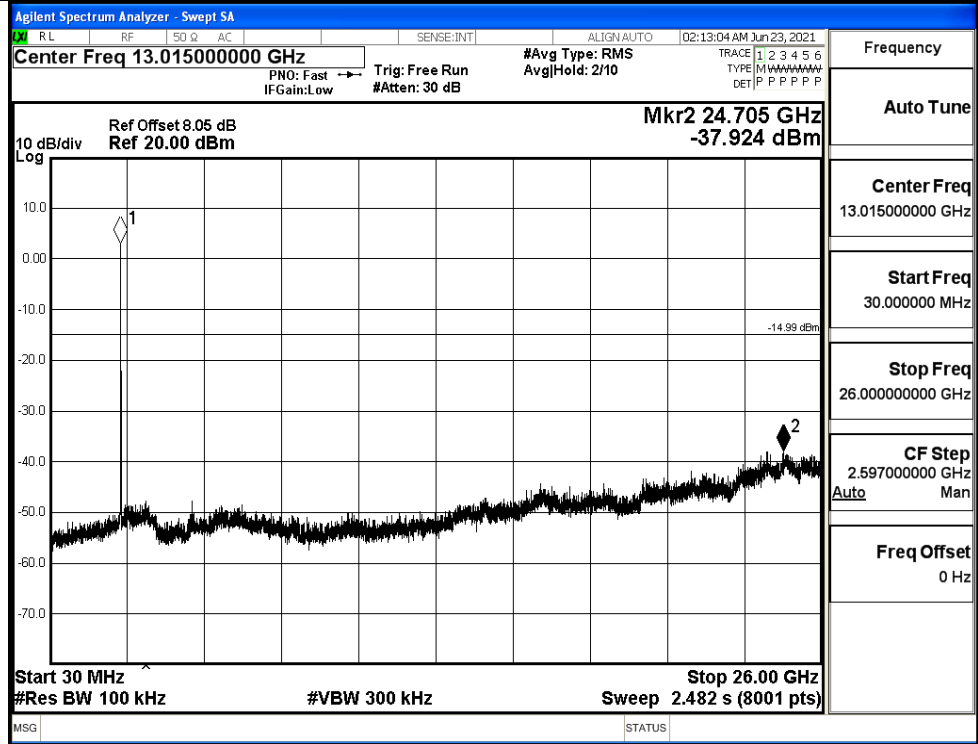
ANT1

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	5.014	-37.924	-14.986	PASS
	MCH	6.093	-37.343	-13.907	PASS
	HCH	6.057	-38.049	-13.943	PASS
11G	LCH	4.728	-37.345	-15.272	PASS
	MCH	5.73	-37.896	-14.270	PASS
	HCH	4.094	-37.722	-15.906	PASS
11N20 SISO	LCH	3.953	-38.043	-16.047	PASS
	MCH	4.306	-37.739	-15.694	PASS
	HCH	5.069	-37.836	-14.931	PASS
11N40 SISO	LCH	0.428	-37.457	-19.572	PASS
	MCH	-0.109	-37.868	-20.109	PASS
	HCH	0.412	-37.318	-19.588	PASS





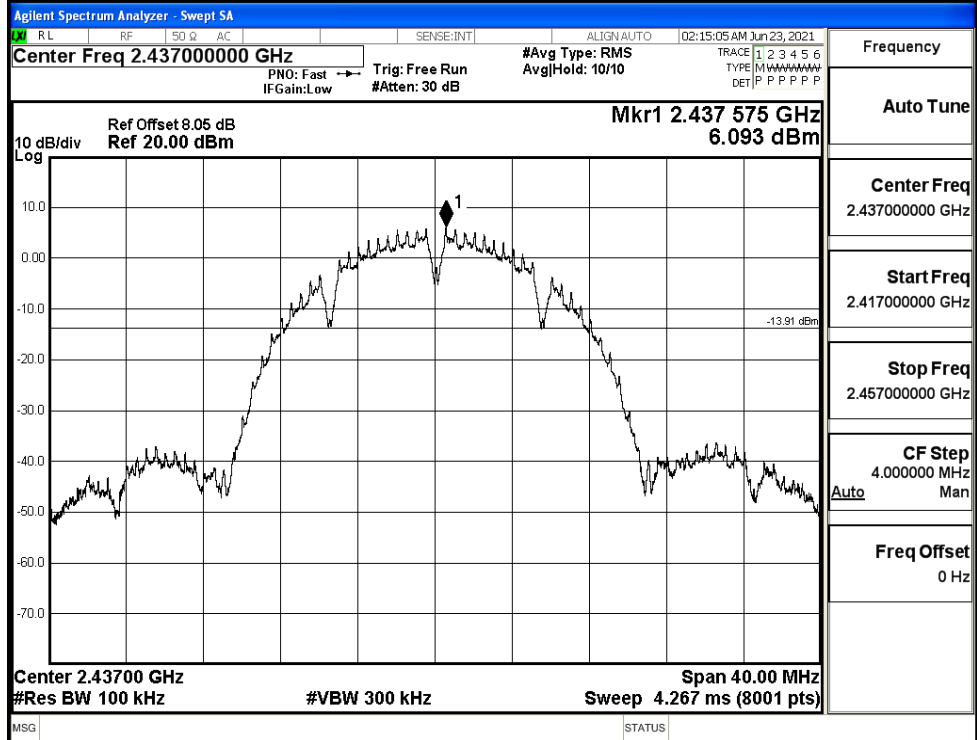
Puw/11B/LCH



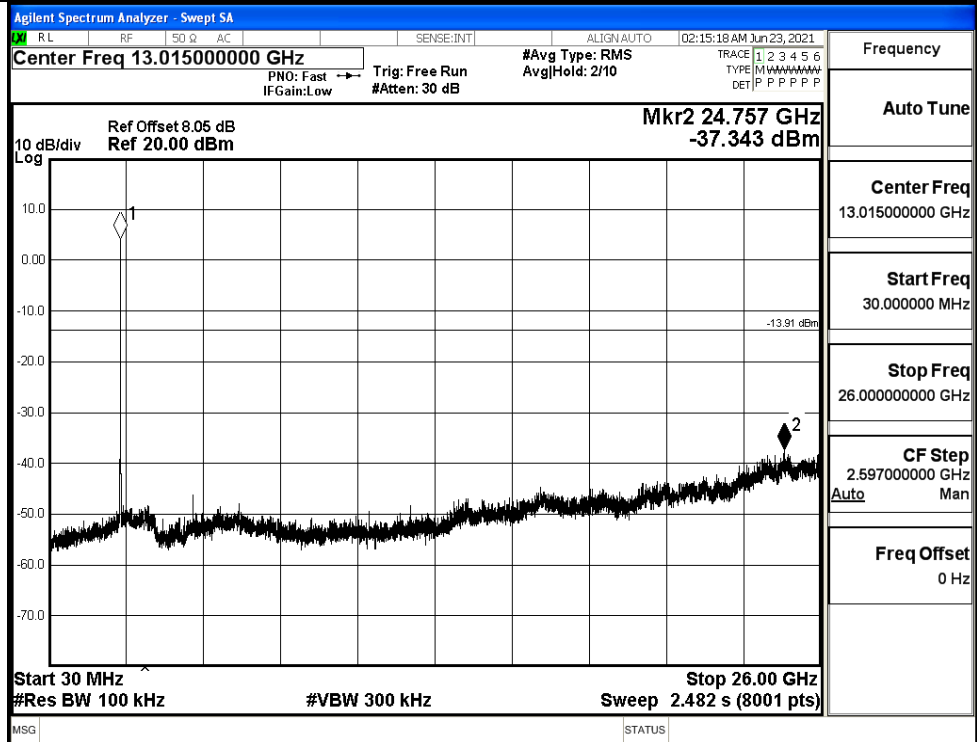


11B MCH Graphs

Pref/11B/MCH



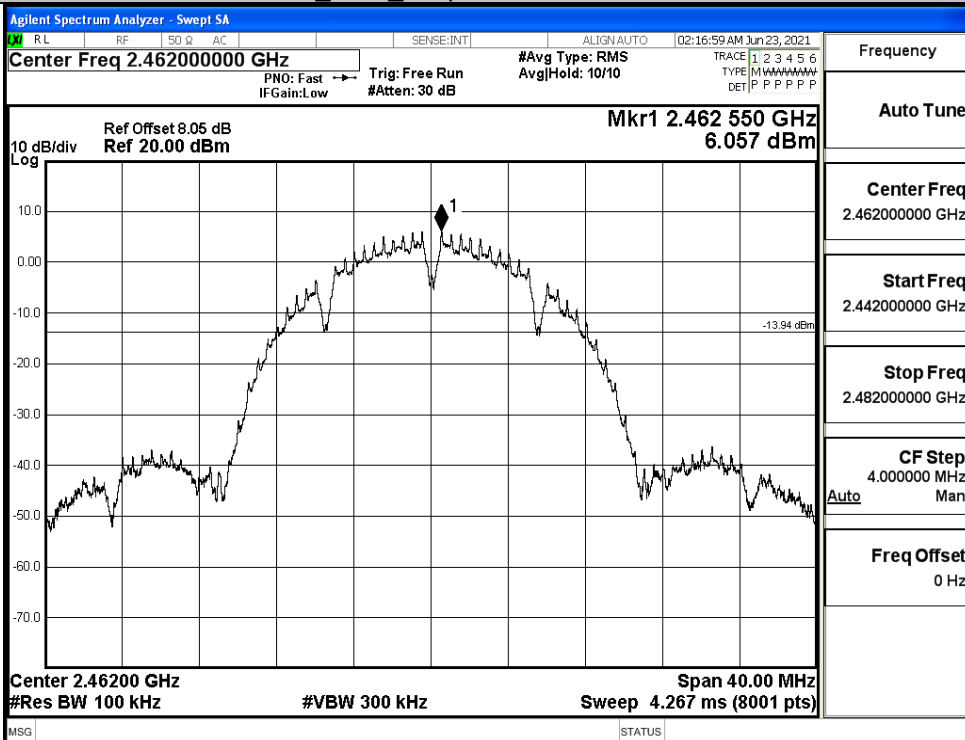
Puw/11B/MCH



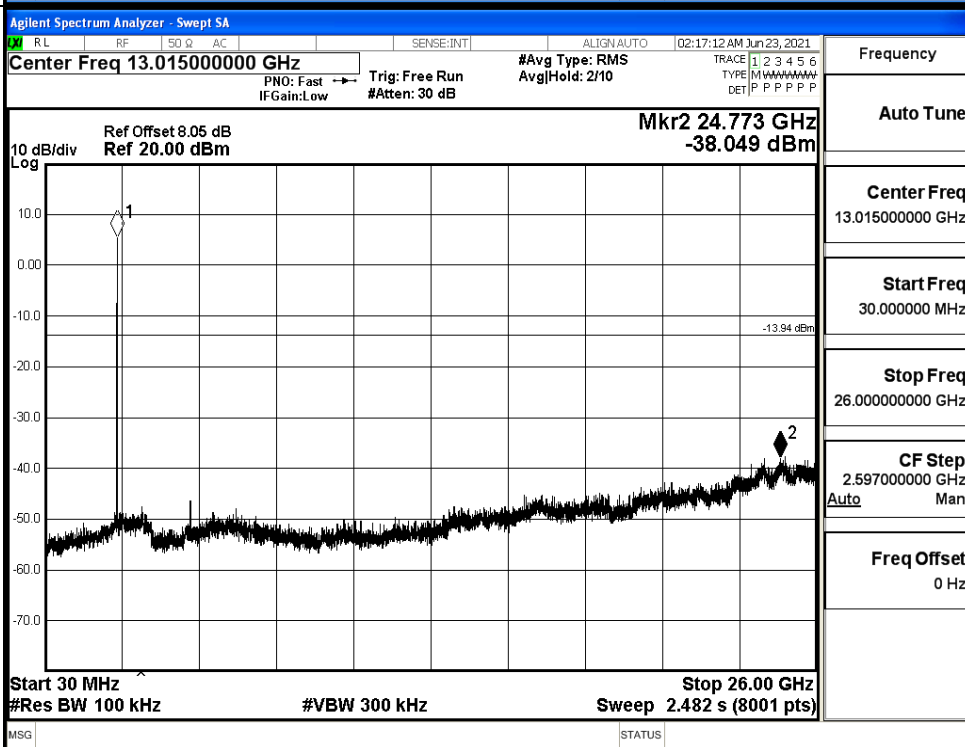


11B HCH Graphs

Pref/11B/HCH



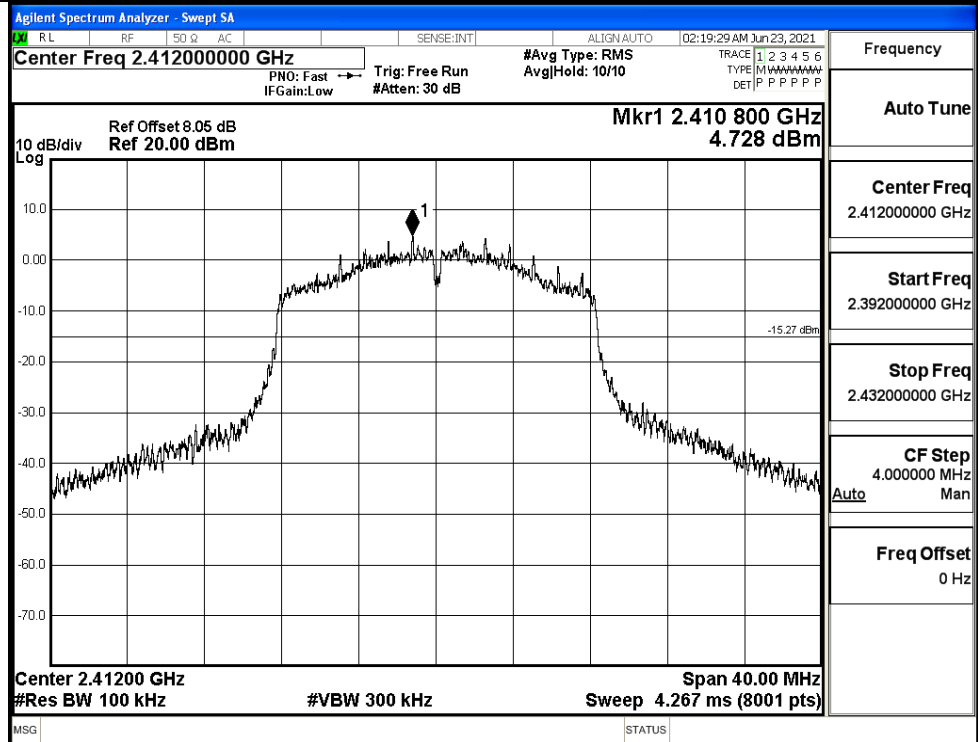
Puw/11B/HCH



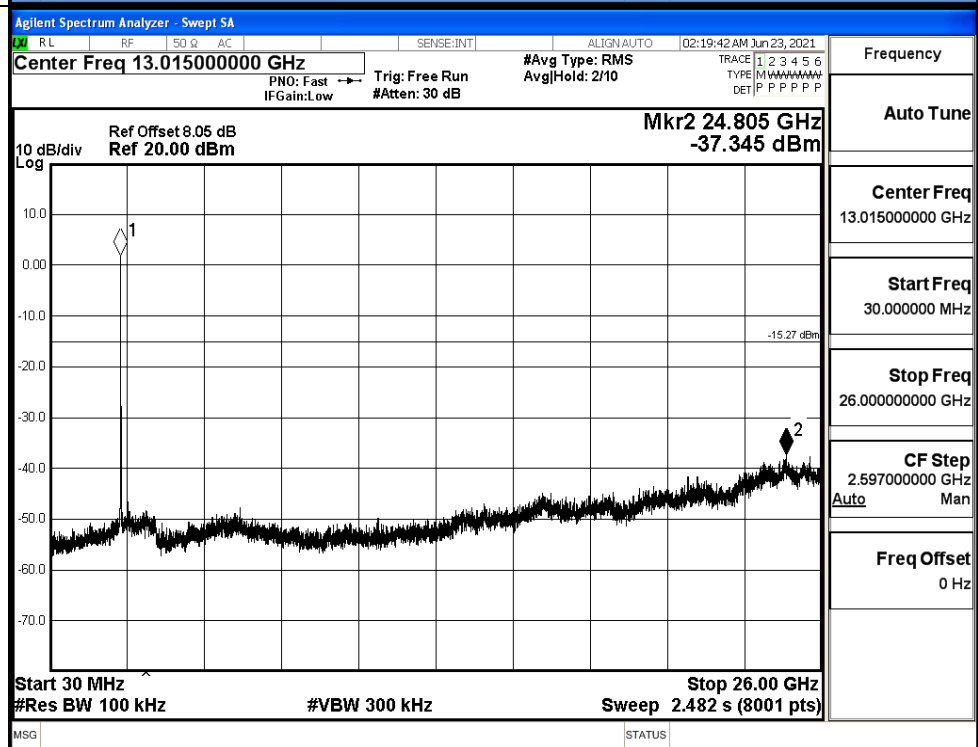


11G LCH Graphs

Pref/11G/LCH



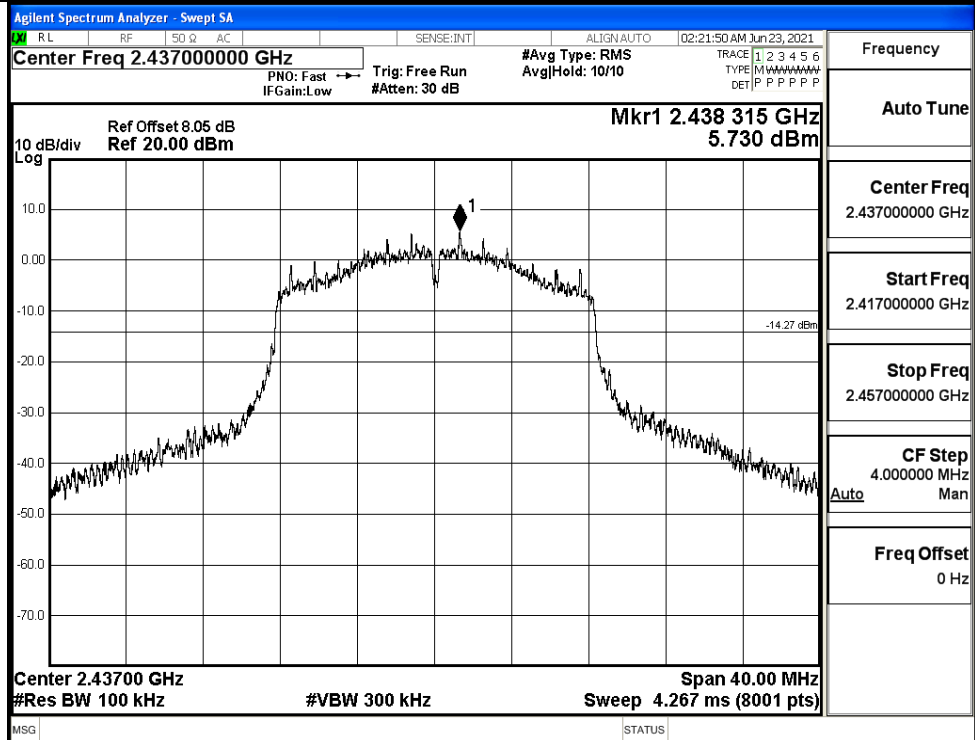
Puw/11G/LCH



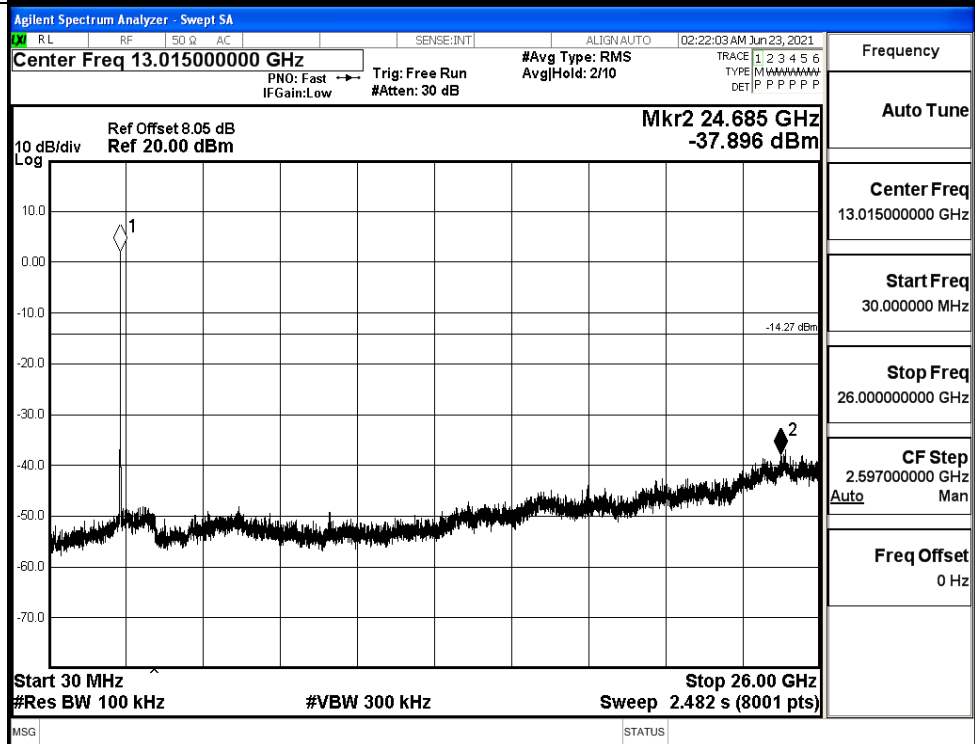


11G MCH Graphs

Pref/11G/MCH



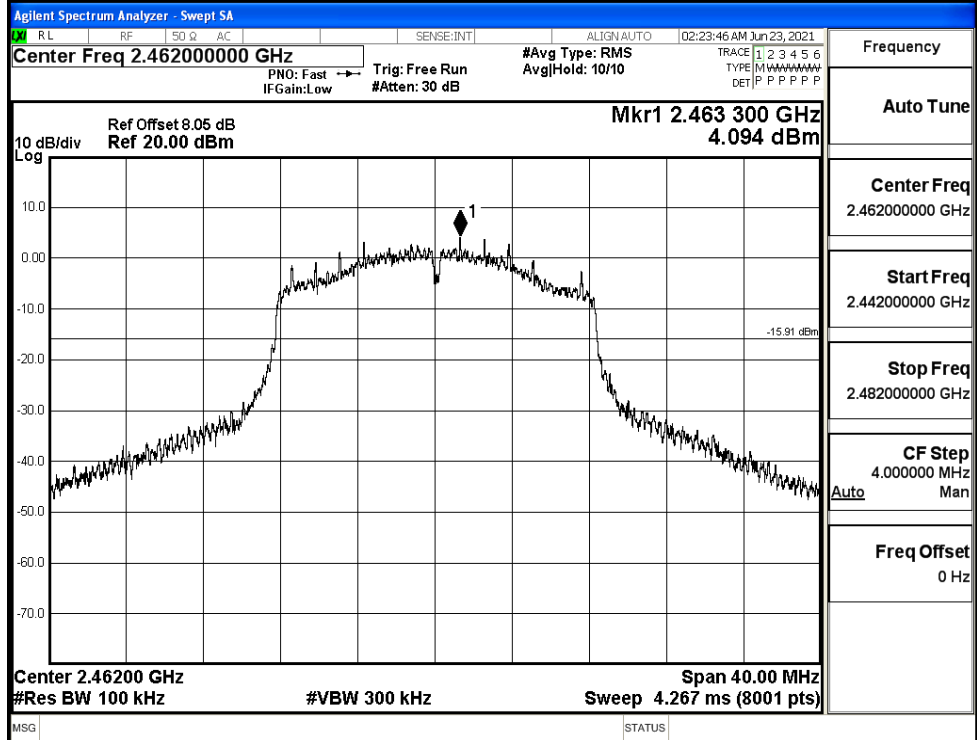
Puw/11G/MCH



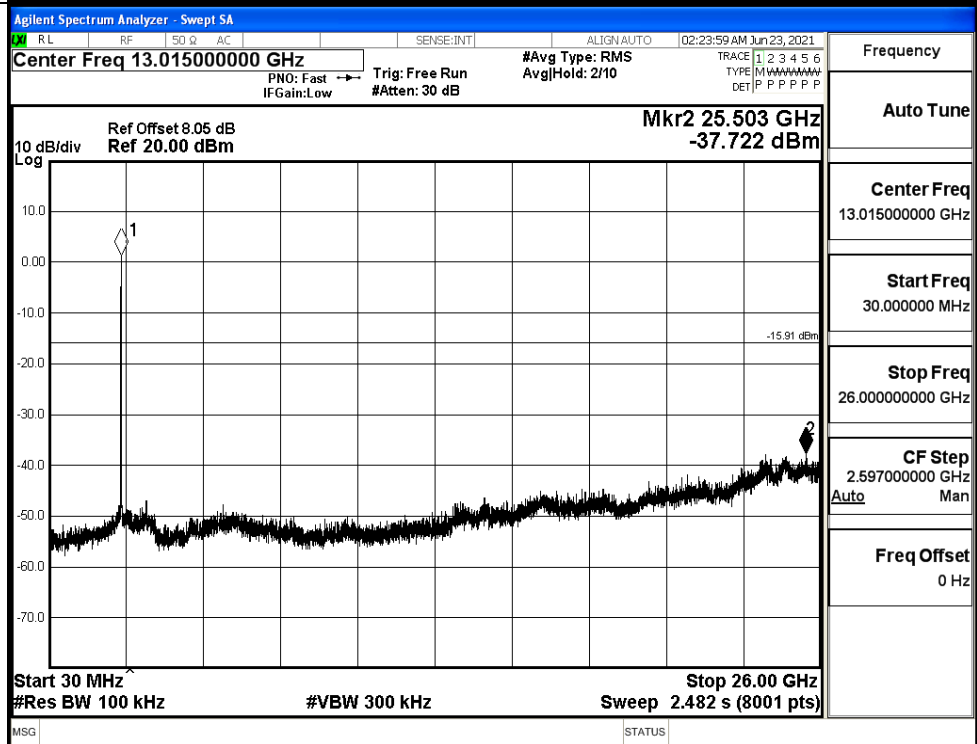


11G HCH Graphs

Pref/11G/HCH



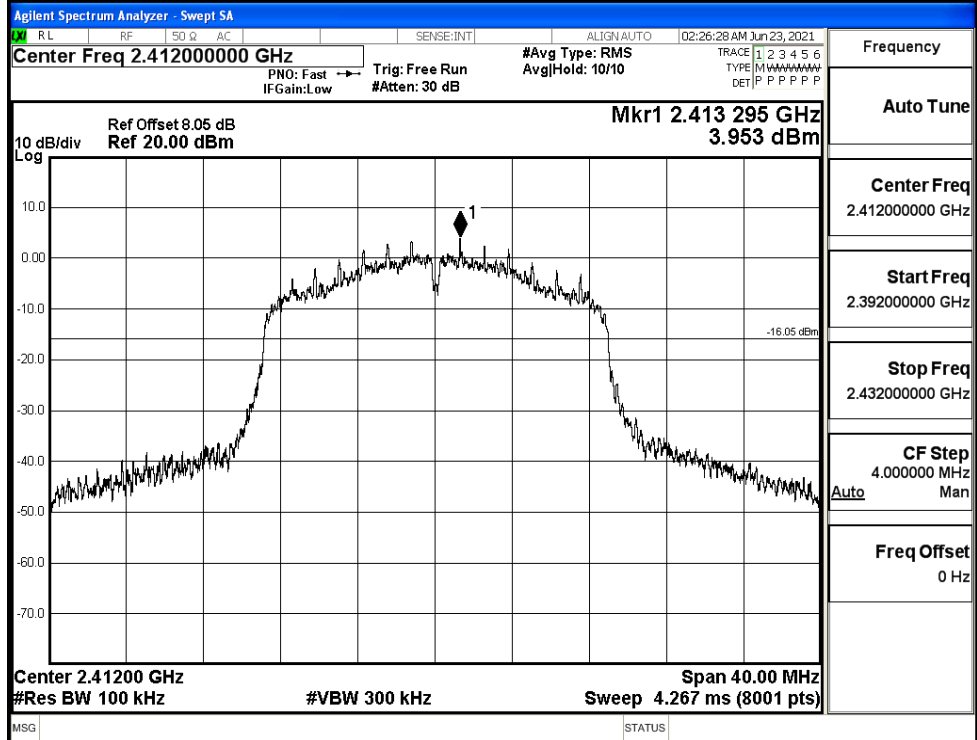
Puw/11G/HCH





11N20SISO LCH Graphs

Pref/11N20SIS
O/LCH



Puw/11N20
SISO/LCH

