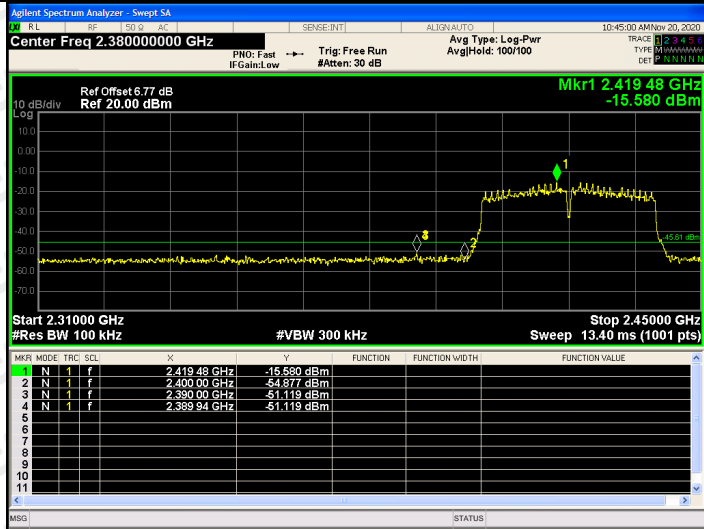
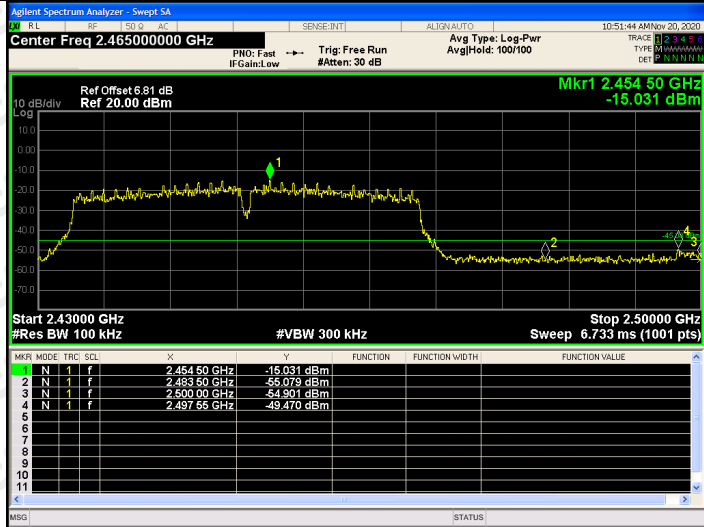


BAND EDGE Graphs

802.11n(HT40)/L
CH

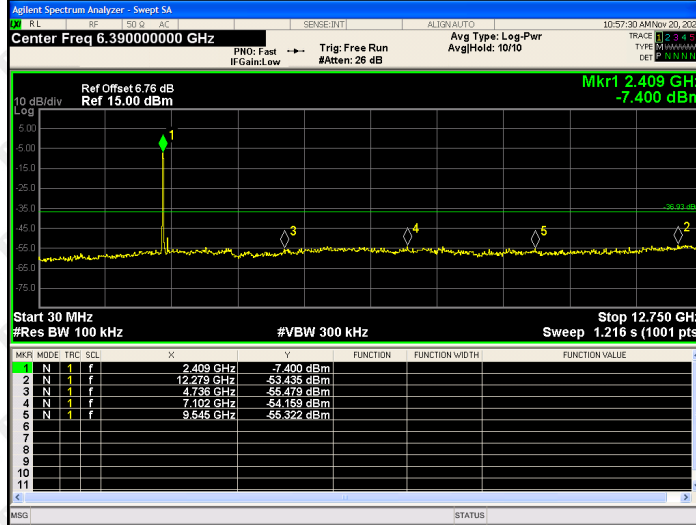


802.11n(HT40)/H
CH

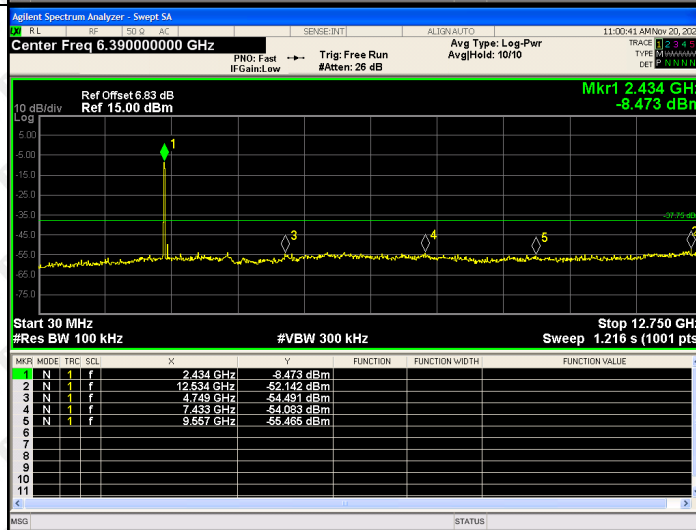


RF Conducted Spurious Emissions Graphs

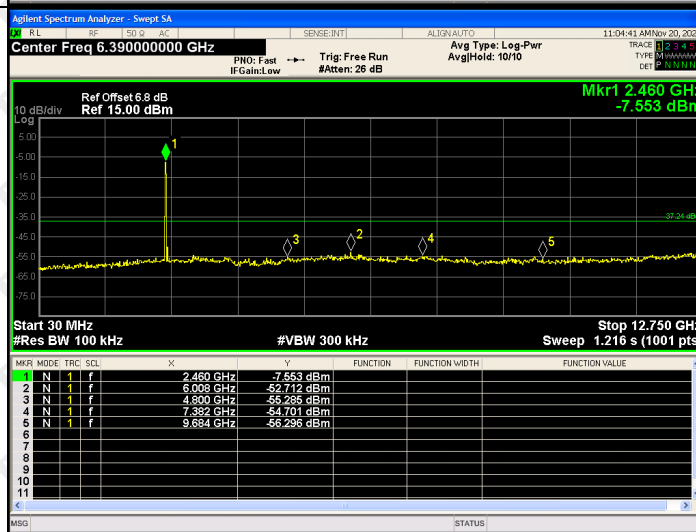
802.11b
/LCH



802.11b
/MCH



802.11b
/HCH



RF Conducted Spurious Emissions Graphs



RF Conducted Spurious Emissions Graphs

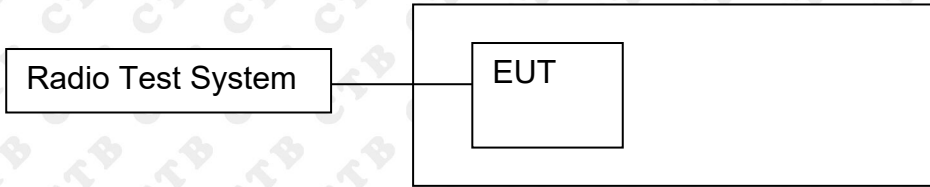
<p>802.11n (HT20)/ LCH</p>	<table border="1"> <thead> <tr> <th>MFR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.409 GHz</td> <td>-11.907 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>12.446 GHz</td> <td>-52.950 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>4.800 GHz</td> <td>-58.090 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>1</td> <td>f</td> <td>7.280 GHz</td> <td>-54.709 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>N</td> <td>1</td> <td>f</td> <td>9.657 GHz</td> <td>-55.153 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MFR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.409 GHz	-11.907 dBm				2	N	1	f	12.446 GHz	-52.950 dBm				3	N	1	f	4.800 GHz	-58.090 dBm				4	N	1	f	7.280 GHz	-54.709 dBm				5	N	1	f	9.657 GHz	-55.153 dBm				
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RF Conducted Spurious Emissions Graphs



9. COUDUCTED OUTPUT POWER

9.1 Block Diagram Of Test Setup



9.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

9.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 1MHz. VBW = 3MHz. Sweep = auto; Detector Function = RMS. Channel power function is used
3. Keep the EUT in transmitting at lowest, middle and highest channel individually. Record the max value.

9.4 Test Result

ANT 1

Mode	Channel.	Maximum Output Power [dBm]	Limit[dBm]	Verdict
802.11b	LCH	7.558	30	PASS
	MCH	7.28	30	PASS
	HCH	7.479	30	PASS
802.11g	LCH	6.684	30	PASS
	MCH	6.426	30	PASS
	HCH	6.337	30	PASS
802.11n(HT20)	LCH	5.801	30	PASS
	MCH	5.455	30	PASS
	HCH	5.000	30	PASS
802.11n(HT40)	LCH	3.863	30	PASS
	MCH	3.978	30	PASS
	HCH	3.976	30	PASS

ANT 2 +ANT 3

Mode	Channel.	Maximum Output Power [dBm] ant 2	Maximum Output Power [dBm] ant 3	Total Power Conducted Output Power(PK)	Limit[dBm]
802.11b	LCH	7.545	7.677	\	30
	MCH	7.21	7.371	\	30
	HCH	7.469	7.643	\	30
802.11g	LCH	6.592	6.775	\	30
	MCH	6.255	6.332	\	30
	HCH	6.449	6.492	\	30
802.11n(HT20)	LCH	5.343	5.862	8.621	30
	MCH	5.082	5.507	8.311	30
	HCH	5.622	5.643	8.643	30
802.11n(HT40)	LCH	3.384	3.847	6.632	30
	MCH	3.371	3.921	6.665	30
	HCH	3.878	3.773	6.836	30

ANT1

Mode	Channel.	Maximum Output Power [dBm]
	LCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.412000000 GHz Ref Off: 6.76 dB Ref: 26.76 dBm Channel Power: 7.56 dBm / 20 MHz Power Spectral Density: -65.45 dBm /Hz</p>
802.11b	MCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.437000000 GHz Ref Off: 6.83 dB Ref: 26.83 dBm Channel Power: 7.28 dBm / 20 MHz Power Spectral Density: -65.73 dBm /Hz</p>
	HCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.462000000 GHz Ref Off: 6.8 dB Ref: 26.80 dBm Channel Power: 7.48 dBm / 20 MHz Power Spectral Density: -65.53 dBm /Hz</p>

	LCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.41200000 GHz Ref Offset: 6.76 dB Ref: 26.76 dBm Channel Power: 6.68 dBm / 20 MHz Power Spectral Density: -66.33 dBm / Hz</p>
802.11g	MCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.43700000 GHz Ref Offset: 6.83 dB Ref: 26.83 dBm Channel Power: 6.43 dBm / 20 MHz Power Spectral Density: -66.58 dBm / Hz</p>
	HCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.46200000 GHz Ref Offset: 6.8 dB Ref: 26.80 dBm Channel Power: 6.34 dBm / 20 MHz Power Spectral Density: -66.67 dBm / Hz</p>

	LCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.41200000 GHz Ref Offset: 6.76 dB Ref: 26.76 dBm Channel Power: 5.80 dBm / 20 MHz Power Spectral Density: -67.21 dBm / Hz</p>
802.11n(HT20)	MCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.43700000 GHz Ref Offset: 6.83 dB Ref: 26.83 dBm Channel Power: 5.46 dBm / 20 MHz Power Spectral Density: -67.56 dBm / Hz</p>
	HCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.46200000 GHz Ref Offset: 6.8 dB Ref: 26.80 dBm Channel Power: 5.00 dBm / 20 MHz Power Spectral Density: -68.01 dBm / Hz</p>

	LCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.422000000 GHz Ref Offset: 6.77 dB Ref: 26.77 dBm Channel Power: 3.86 dBm / 40 MHz Power Spectral Density: -72.16 dBm / Hz</p>
802.11n(HT40)	MCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.437000000 GHz Ref Offset: 6.83 dB Ref: 26.83 dBm Channel Power: 3.98 dBm / 40 MHz Power Spectral Density: -72.04 dBm / Hz</p>
	HCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.452000000 GHz Ref Offset: 6.81 dB Ref: 26.81 dBm Channel Power: 3.98 dBm / 40 MHz Power Spectral Density: -72.04 dBm / Hz</p>

ANT2

Mode	Channel.	Maximum Output Power [dBm]
	LCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.41200000 GHz Channel Power: 7.55 dBm / 20 MHz Power Spectral Density: -65.47 dBm /Hz</p>
802.11b	MCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.43700000 GHz Channel Power: 7.21 dBm / 20 MHz Power Spectral Density: -65.80 dBm /Hz</p>
	HCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.46200000 GHz Channel Power: 7.47 dBm / 20 MHz Power Spectral Density: -65.54 dBm /Hz</p>

	LCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.412000000 GHz Channel Power: 6.59 dBm / 20 MHz Power Spectral Density: -66.42 dBm /Hz</p>
802.11g	MCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.437000000 GHz Channel Power: 6.26 dBm / 20 MHz Power Spectral Density: -66.76 dBm /Hz</p>
	HCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.462000000 GHz Channel Power: 6.45 dBm / 20 MHz Power Spectral Density: -66.56 dBm /Hz</p>

	LCH	<p>Agilent Spectrum Analyzer - Channel Power</p> <p>Center Freq: 2.41200000 GHz</p> <p>Ref Offset: 6.76 dB Ref: 26.76 dBm</p> <p>Channel Power: 5.34 dBm / 20 MHz</p> <p>Power Spectral Density: -67.67 dBm / Hz</p>
802.11n(HT20)	MCH	<p>Agilent Spectrum Analyzer - Channel Power</p> <p>Center Freq: 2.437000000 GHz</p> <p>Ref Offset: 6.83 dB Ref: 26.83 dBm</p> <p>Channel Power: 5.08 dBm / 20 MHz</p> <p>Power Spectral Density: -67.93 dBm / Hz</p>
	HCH	<p>Agilent Spectrum Analyzer - Channel Power</p> <p>Center Freq: 2.462000000 GHz</p> <p>Ref Offset: 6.8 dB Ref: 26.80 dBm</p> <p>Channel Power: 5.62 dBm / 20 MHz</p> <p>Power Spectral Density: -67.39 dBm / Hz</p>

	LCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.422000000 GHz Ref Offset: 6.77 dB Ref: 26.77 dBm Channel Power: 3.38 dBm / 40 MHz Power Spectral Density: -72.64 dBm / Hz</p>
802.11n(HT40)	MCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.437000000 GHz Ref Offset: 6.83 dB Ref: 26.83 dBm Channel Power: 3.37 dBm / 40 MHz Power Spectral Density: -72.65 dBm / Hz</p>
	HCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.452000000 GHz Ref Offset: 6.81 dB Ref: 26.81 dBm Channel Power: 3.88 dBm / 40 MHz Power Spectral Density: -72.14 dBm / Hz</p>

ANT3

Mode	Channel.	Maximum Output Power [dBm]
	LCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.41200000 GHz Channel Power: 7.68 dBm / 20 MHz Power Spectral Density: -65.33 dBm /Hz</p>
802.11b	MCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.43700000 GHz Channel Power: 7.37 dBm / 20 MHz Power Spectral Density: -65.64 dBm /Hz</p>
	HCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.46200000 GHz Channel Power: 7.64 dBm / 20 MHz Power Spectral Density: -65.37 dBm /Hz</p>

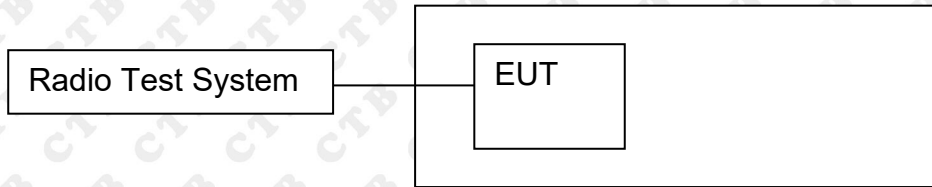
	LCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.41200000 GHz Ref Offset: 6.76 dB Ref: 26.76 dBm Channel Power: 6.78 dBm / 20 MHz Power Spectral Density: -66.24 dBm / Hz</p>
802.11g	MCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.437000000 GHz Ref Offset: 6.83 dB Ref: 26.83 dBm Channel Power: 6.33 dBm / 20 MHz Power Spectral Density: -66.68 dBm / Hz</p>
	HCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.462000000 GHz Ref Offset: 6.8 dB Ref: 26.80 dBm Channel Power: 6.49 dBm / 20 MHz Power Spectral Density: -66.52 dBm / Hz</p>

	LCH	<p>Agilent Spectrum Analyzer - Channel Power</p> <p>Center Freq: 2.41200000 GHz</p> <p>Ref Offset: 6.76 dB Ref: 26.76 dBm</p> <p>Channel Power: 5.86 dBm / 20 MHz</p> <p>Power Spectral Density: -67.15 dBm / Hz</p>
802.11n(HT20)	MCH	<p>Agilent Spectrum Analyzer - Channel Power</p> <p>Center Freq: 2.437000000 GHz</p> <p>Ref Offset: 6.83 dB Ref: 26.83 dBm</p> <p>Channel Power: 5.51 dBm / 20 MHz</p> <p>Power Spectral Density: -67.50 dBm / Hz</p>
	HCH	<p>Agilent Spectrum Analyzer - Channel Power</p> <p>Center Freq: 2.462000000 GHz</p> <p>Ref Offset: 6.8 dB Ref: 26.80 dBm</p> <p>Channel Power: 5.64 dBm / 20 MHz</p> <p>Power Spectral Density: -67.37 dBm / Hz</p>

	LCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.422000000 GHz Channel Power: 3.85 dBm / 40 MHz Power Spectral Density: -72.17 dBm /Hz</p>
802.11n(HT40)	MCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.437000000 GHz Channel Power: 3.92 dBm / 40 MHz Power Spectral Density: -72.10 dBm /Hz</p>
	HCH	<p>Agilent Spectrum Analyzer - Channel Power Center Freq: 2.452000000 GHz Channel Power: 3.77 dBm / 40 MHz Power Spectral Density: -72.25 dBm /Hz</p>

10. 6DB OCCUPIED BANDWIDTH

10.1 Block Diagram Of Test Setup



10.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

10.3 Test procedure

1. Rem1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

10.4 Test Result

ANT 1

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	8.833	500	PASS
	MCH	8.321	500	PASS
	HCH	8.821	500	PASS
802.11g	LCH	15.061	500	PASS
	MCH	13.811	500	PASS
	HCH	14.772	500	PASS
802.11n(HT20)	LCH	15.03	500	PASS
	MCH	15.028	500	PASS
	HCH	15.654	500	PASS
802.11n(HT40)	LCH	35.052	500	PASS
	MCH	35.092	500	PASS
	HCH	35.063	500	PASS

Test Graph1:



<p>802.11g/LCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.41200000 GHz</p> <p>Center Freq: 2.412000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 6.76 dB</p> <p>Ref 26.76 dBm</p> <p>Mkr3 2.419531 GHz</p> <p>-18.454 dBm</p> <p>Center 2.412 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 3.333 ms</p> <p>Occupied Bandwidth 16.317 MHz</p> <p>Total Power 4.98 dBm</p> <p>Transmit Freq Error 837 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.06 MHz</p> <p>x dB -6.00 dB</p>
<p>802.11g/MCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.43700000 GHz</p> <p>Center Freq: 2.437000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 6.83 dB</p> <p>Ref 26.83 dBm</p> <p>Mkr3 2.443909 GHz</p> <p>-18.465 dBm</p> <p>Center 2.437 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 3.333 ms</p> <p>Occupied Bandwidth 16.303 MHz</p> <p>Total Power 4.82 dBm</p> <p>Transmit Freq Error 3.680 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 13.81 MHz</p> <p>x dB -6.00 dB</p>
<p>802.11g/HCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.46200000 GHz</p> <p>Center Freq: 2.462000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 6.8 dB</p> <p>Ref 26.80 dBm</p> <p>Mkr3 2.469379 GHz</p> <p>-18.930 dBm</p> <p>Center 2.462 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 3.333 ms</p> <p>Occupied Bandwidth 16.308 MHz</p> <p>Total Power 4.72 dBm</p> <p>Transmit Freq Error -6.322 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 14.77 MHz</p> <p>x dB -6.00 dB</p>

<p>802.11n(HT20)/LC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.41200000 GHz</p> <p>Center Freq: 2.41200000 GHz Trig: Free Run #Atten: 30 dB</p> <p>Ref Offset: 6.76 dB Ref 26.76 dBm</p> <p>Mkr3 2.419529 GHz -16.170 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz</p> <p>Span 30 MHz Sweep 3.333 ms</p> <p>Occupied Bandwidth 17.481 MHz</p> <p>Total Power 5.25 dBm</p> <p>Transmit Freq Error 13.597 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.03 MHz</p> <p>x dB -6.00 dB</p>
<p>802.11n(HT20)/MC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.43700000 GHz</p> <p>Center Freq: 2.43700000 GHz Trig: Free Run #Atten: 30 dB</p> <p>Ref Offset: 6.83 dB Ref 26.83 dBm</p> <p>Mkr3 2.444509 GHz -16.763 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>Span 30 MHz Sweep 3.333 ms</p> <p>Occupied Bandwidth 17.488 MHz</p> <p>Total Power 4.77 dBm</p> <p>Transmit Freq Error -5.504 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.03 MHz</p> <p>x dB -6.00 dB</p>
<p>802.11n(HT20)/HC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.46200000 GHz</p> <p>Center Freq: 2.46200000 GHz Trig: Free Run #Atten: 30 dB</p> <p>Ref Offset: 6.8 dB Ref 26.80 dBm</p> <p>Mkr3 2.469815 GHz -21.309 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>Span 30 MHz Sweep 3.333 ms</p> <p>Occupied Bandwidth 17.469 MHz</p> <p>Total Power 4.30 dBm</p> <p>Transmit Freq Error -11.748 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.65 MHz</p> <p>x dB -6.00 dB</p>

<p>802.11n(HT40)/LC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.42200000 GHz</p> <p>Center Freq: 2.42200000 GHz</p> <p>Trig: Free Run</p> <p>AvgHold: 100/100</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 30 dB</p> <p>Radio Device: BTS</p> <p>Ref Offset: 6.77 dB</p> <p>Ref 26.77 dBm</p> <p>Mkr3 2.439498 GHz</p> <p>-20.305 dBm</p> <p>Center 2.422 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 60 MHz</p> <p>Sweep 6 ms</p> <p>Occupied Bandwidth 35.831 MHz</p> <p>Total Power 3.40 dBm</p> <p>Transmit Freq Error -27.980 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 35.05 MHz</p> <p>x dB -6.00 dB</p>
<p>802.11n(HT40)/MC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.43700000 GHz</p> <p>Center Freq: 2.43700000 GHz</p> <p>Trig: Free Run</p> <p>AvgHold: 100/100</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 30 dB</p> <p>Radio Device: BTS</p> <p>Ref Offset: 6.83 dB</p> <p>Ref 26.83 dBm</p> <p>Mkr3 2.454576 GHz</p> <p>-23.506 dBm</p> <p>Center 2.437 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 60 MHz</p> <p>Sweep 6 ms</p> <p>Occupied Bandwidth 35.755 MHz</p> <p>Total Power 3.48 dBm</p> <p>Transmit Freq Error 29.933 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 35.09 MHz</p> <p>x dB -6.00 dB</p>
<p>802.11n(HT40)/HC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.45200000 GHz</p> <p>Center Freq: 2.45200000 GHz</p> <p>Trig: Free Run</p> <p>AvgHold: 100/100</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 30 dB</p> <p>Radio Device: BTS</p> <p>Ref Offset: 6.81 dB</p> <p>Ref 26.81 dBm</p> <p>Mkr3 2.46957 GHz</p> <p>-22.678 dBm</p> <p>Center 2.452 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 60 MHz</p> <p>Sweep 6 ms</p> <p>Occupied Bandwidth 35.665 MHz</p> <p>Total Power 3.58 dBm</p> <p>Transmit Freq Error 38.242 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 35.06 MHz</p> <p>x dB -6.00 dB</p>

ANT 2

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	7.901	500	PASS
	MCH	8.32	500	PASS
	HCH	7.669	500	PASS
802.11g	LCH	15.079	500	PASS
	MCH	14.798	500	PASS
	HCH	15.066	500	PASS
802.11n(HT20)	LCH	15.03	500	PASS
	MCH	16.244	500	PASS
	HCH	16.004	500	PASS
802.11n(HT40)	LCH	35.041	500	PASS
	MCH	35.086	500	PASS
	HCH	35.067	500	PASS

Test Graph:
ANT 2

Graphs	
802.11b /LCH	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.41200000 GHz</p> <p>Center Freq: 2.41200000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 6.76 dB</p> <p>Ref 26.76 dBm</p> <p>Mkr3 2.415952 GHz</p> <p>-14.456 dBm</p> <p>Center 2.412 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 3.333 ms</p> <p>Occupied Bandwidth 13.950 MHz</p> <p>Total Power 8.78 dBm</p> <p>Transmit Freq Error 1.729 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 7.901 MHz</p> <p>x dB -6.00 dB</p>
802.11b /MCH	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.43700000 GHz</p> <p>Center Freq: 2.43700000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 6.83 dB</p> <p>Ref 26.83 dBm</p> <p>Mkr3 2.441184 GHz</p> <p>-13.459 dBm</p> <p>Center 2.437 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 3.333 ms</p> <p>Occupied Bandwidth 13.933 MHz</p> <p>Total Power 8.51 dBm</p> <p>Transmit Freq Error 23.657 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 8.320 MHz</p> <p>x dB -6.00 dB</p>
802.11b/HCH	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.46200000 GHz</p> <p>Center Freq: 2.46200000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset: 6.8 dB</p> <p>Ref 26.80 dBm</p> <p>Mkr3 2.465981 GHz</p> <p>-15.270 dBm</p> <p>Center 2.462 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 3.333 ms</p> <p>Occupied Bandwidth 13.947 MHz</p> <p>Total Power 8.76 dBm</p> <p>Transmit Freq Error 46.309 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 7.669 MHz</p> <p>x dB -6.00 dB</p>

<p>802.11g/LCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.41200000 GHz Center Freq: 2.41200000 GHz Trig: Free Run AvgHold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 6.76 dB Ref: 26.76 dBm Mkr3: 2.419537 GHz -15.826 dBm</p> <p>Center: 2.412 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 3.333 ms</p> <p>Occupied Bandwidth: 16.285 MHz Total Power: 4.91 dBm Transmit Freq Error: -2.671 kHz OBW Power: 99.00 % x dB Bandwidth: 15.08 MHz x dB: -6.00 dB</p>
<p>802.11g/MCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.43700000 GHz Center Freq: 2.43700000 GHz Trig: Free Run AvgHold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 6.83 dB Ref: 26.83 dBm Mkr3: 2.4444 GHz -19.566 dBm</p> <p>Center: 2.437 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 3.333 ms</p> <p>Occupied Bandwidth: 16.312 MHz Total Power: 4.61 dBm Transmit Freq Error: 1.484 kHz OBW Power: 99.00 % x dB Bandwidth: 14.80 MHz x dB: -6.00 dB</p>
<p>802.11g/HCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.46200000 GHz Center Freq: 2.46200000 GHz Trig: Free Run AvgHold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 6.8 dB Ref: 26.80 dBm Mkr3: 2.46955 GHz -19.841 dBm</p> <p>Center: 2.462 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 30 MHz Sweep: 3.333 ms</p> <p>Occupied Bandwidth: 16.310 MHz Total Power: 4.86 dBm Transmit Freq Error: 17.212 kHz OBW Power: 99.00 % x dB Bandwidth: 15.07 MHz x dB: -6.00 dB</p>

<p>802.11n(HT20)/LC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.412000000 GHz</p> <p>Center Freq: 2.412000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 30 dB</p> <p>Radio Device: BTS</p> <p>Ref Offset: 6.76 dB</p> <p>Ref 26.76 dBm</p> <p>Mkr3 2.419507 GHz</p> <p>-14.927 dBm</p> <p>Center 2.412 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 3.333 ms</p> <p>Occupied Bandwidth 17.511 MHz</p> <p>Total Power 4.63 dBm</p> <p>Transmit Freq Error -8.115 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 15.03 MHz</p> <p>x dB -6.00 dB</p>
<p>802.11n(HT20)/MC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.437000000 GHz</p> <p>Center Freq: 2.437000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 30 dB</p> <p>Radio Device: BTS</p> <p>Ref Offset: 6.83 dB</p> <p>Ref 26.83 dBm</p> <p>Mkr3 2.44514 GHz</p> <p>-19.096 dBm</p> <p>Center 2.437 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 3.333 ms</p> <p>Occupied Bandwidth 17.491 MHz</p> <p>Total Power 4.44 dBm</p> <p>Transmit Freq Error 18.235 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 16.24 MHz</p> <p>x dB -6.00 dB</p>
<p>802.11n(HT20)/HC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.462000000 GHz</p> <p>Center Freq: 2.462000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 30 dB</p> <p>Radio Device: BTS</p> <p>Ref Offset: 6.8 dB</p> <p>Ref 26.80 dBm</p> <p>Mkr3 2.462 GHz</p> <p>-23.777 dBm</p> <p>Center 2.462 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 3.333 ms</p> <p>Occupied Bandwidth 17.478 MHz</p> <p>Total Power 4.79 dBm</p> <p>Transmit Freq Error 25.722 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 16.00 MHz</p> <p>x dB -6.00 dB</p>

<p>802.11n(HT40)/LC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.422000000 GHz Center Freq: 2.422000000 GHz Trig: Free Run AvgHold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 6.77 dB Ref: 26.77 dBm Mkr3: 2.43953 GHz -22.704 dBm</p> <p>Center: 2.422 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 60 MHz Sweep: 6 ms</p> <p>Occupied Bandwidth: 35.774 MHz Total Power: 2.88 dBm</p> <p>Transmit Freq Error: 10.067 kHz OBW Power: 99.00 % x dB Bandwidth: 35.04 MHz x dB: -6.00 dB</p>
<p>802.11n(HT40)/MC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run AvgHold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 6.83 dB Ref: 26.83 dBm Mkr3: 2.45454 GHz -21.305 dBm</p> <p>Center: 2.437 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 60 MHz Sweep: 6 ms</p> <p>Occupied Bandwidth: 35.691 MHz Total Power: 2.85 dBm</p> <p>Transmit Freq Error: -3.324 kHz OBW Power: 99.00 % x dB Bandwidth: 35.09 MHz x dB: -6.00 dB</p>
<p>802.11n(HT40)/HC H</p>	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.452000000 GHz Center Freq: 2.452000000 GHz Trig: Free Run AvgHold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 6.81 dB Ref: 26.81 dBm Mkr3: 2.469534 GHz -20.220 dBm</p> <p>Center: 2.452 GHz #Res BW: 100 kHz #VBW: 300 kHz Span: 60 MHz Sweep: 6 ms</p> <p>Occupied Bandwidth: 35.688 MHz Total Power: 3.28 dBm</p> <p>Transmit Freq Error: 158 Hz OBW Power: 99.00 % x dB Bandwidth: 35.07 MHz x dB: -6.00 dB</p>

ANT 3

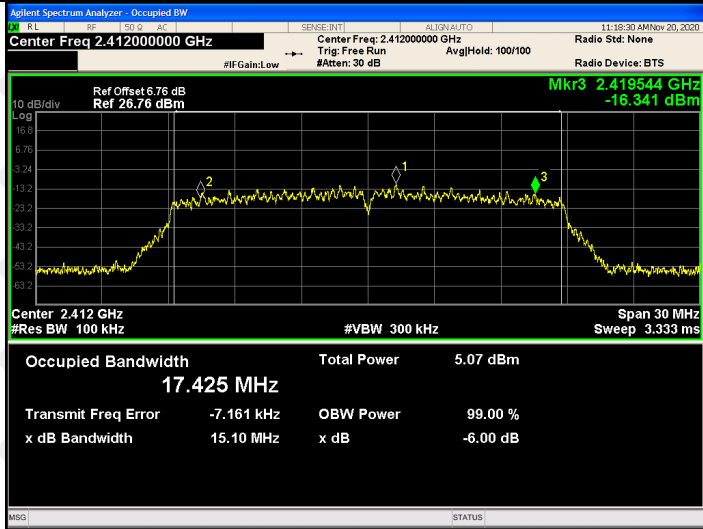
Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	9.011	500	PASS
	MCH	8.824	500	PASS
	HCH	9.533	500	PASS
802.11g	LCH	15.089	500	PASS
	MCH	14.198	500	PASS
	HCH	14.762	500	PASS
802.11n(HT20)	LCH	15.103	500	PASS
	MCH	15.058	500	PASS
	HCH	15.061	500	PASS
802.11n(HT40)	LCH	35.085	500	PASS
	MCH	35.102	500	PASS
	HCH	35.037	500	PASS

Test Graph:

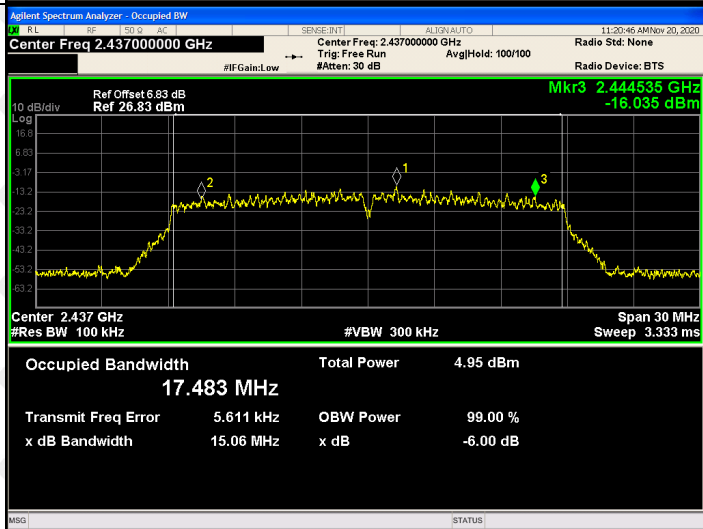


<p>802.11g/LCH</p>	
<p>802.11g/MCH</p>	
<p>802.11g/HCH</p>	

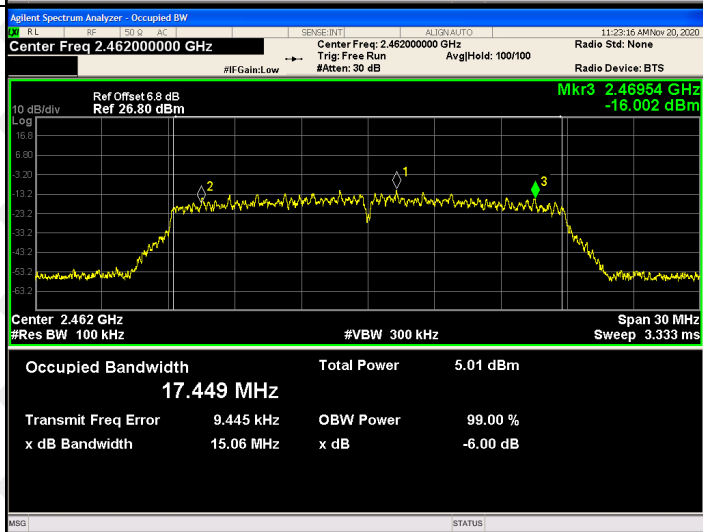
802.11n(HT20)/LC
H

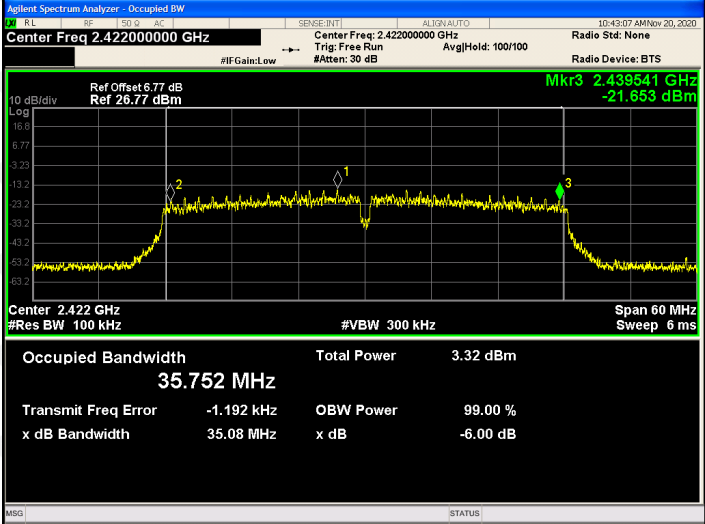
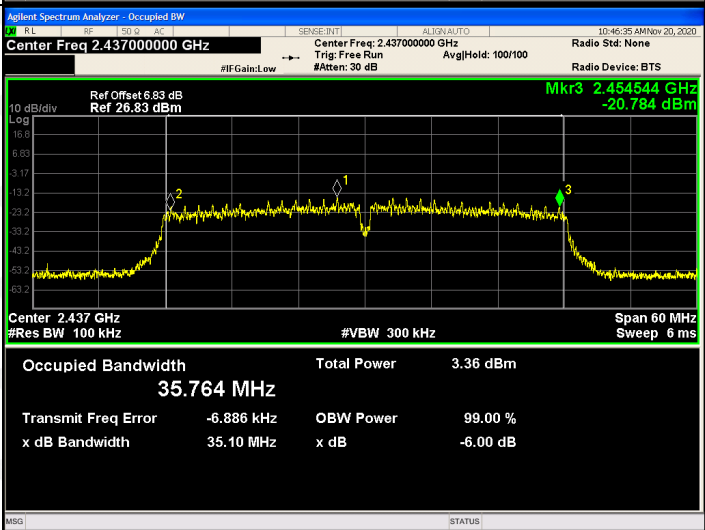
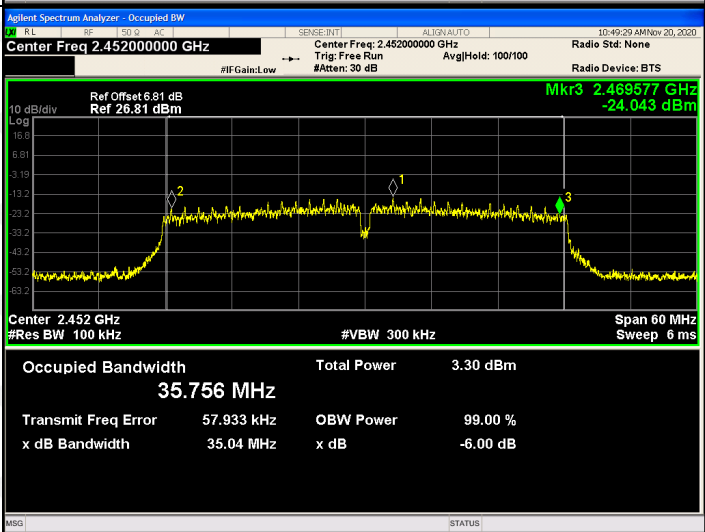


802.11n(HT20)/MC
H



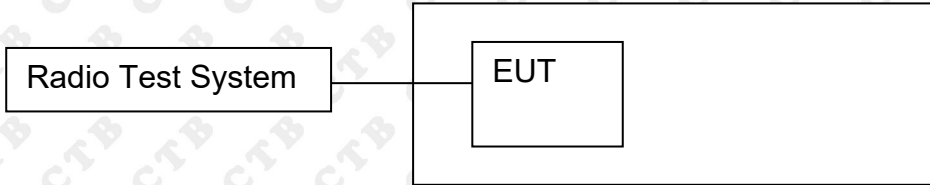
802.11n(HT20)/HC
H



<p>802.11n(HT40)/LC H</p>	 <p>Agilent Spectrum Analyzer - Occupied BW Center Freq 2.422000000 GHz Center Freq: 2.422000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None #IF Gain: Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Log Ref Offset: 6.77 dB Ref 26.77 dBm Mkr3 2.439541 GHz -21.653 dBm</p> <p>Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 6 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>3.32 dBm</td> </tr> <tr> <td>35.752 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-1.192 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>35.08 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	3.32 dBm	35.752 MHz			Transmit Freq Error	OBW Power	99.00 %	-1.192 kHz			x dB Bandwidth	x dB	-6.00 dB	35.08 MHz		
Occupied Bandwidth	Total Power	3.32 dBm																	
35.752 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-1.192 kHz																			
x dB Bandwidth	x dB	-6.00 dB																	
35.08 MHz																			
<p>802.11n(HT40)/MC H</p>	 <p>Agilent Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None #IF Gain: Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Log Ref Offset: 6.83 dB Ref 26.83 dBm Mkr3 2.454544 GHz -20.784 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 6 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>3.36 dBm</td> </tr> <tr> <td>35.764 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-6.886 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>35.10 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	3.36 dBm	35.764 MHz			Transmit Freq Error	OBW Power	99.00 %	-6.886 kHz			x dB Bandwidth	x dB	-6.00 dB	35.10 MHz		
Occupied Bandwidth	Total Power	3.36 dBm																	
35.764 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-6.886 kHz																			
x dB Bandwidth	x dB	-6.00 dB																	
35.10 MHz																			
<p>802.11n(HT40)/HC H</p>	 <p>Agilent Spectrum Analyzer - Occupied BW Center Freq 2.452000000 GHz Center Freq: 2.452000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None #IF Gain: Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Log Ref Offset: 6.81 dB Ref 26.81 dBm Mkr3 2.469577 GHz -24.043 dBm</p> <p>Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 6 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>3.30 dBm</td> </tr> <tr> <td>35.756 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>57.933 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>35.04 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	3.30 dBm	35.756 MHz			Transmit Freq Error	OBW Power	99.00 %	57.933 kHz			x dB Bandwidth	x dB	-6.00 dB	35.04 MHz		
Occupied Bandwidth	Total Power	3.30 dBm																	
35.756 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
57.933 kHz																			
x dB Bandwidth	x dB	-6.00 dB																	
35.04 MHz																			

11. POWER SPECTRAL DENSITY

11.1 Block Diagram Of Test Setup



11.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

11.3 Test procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = RMS.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

11.4 Test Result

ANT 1

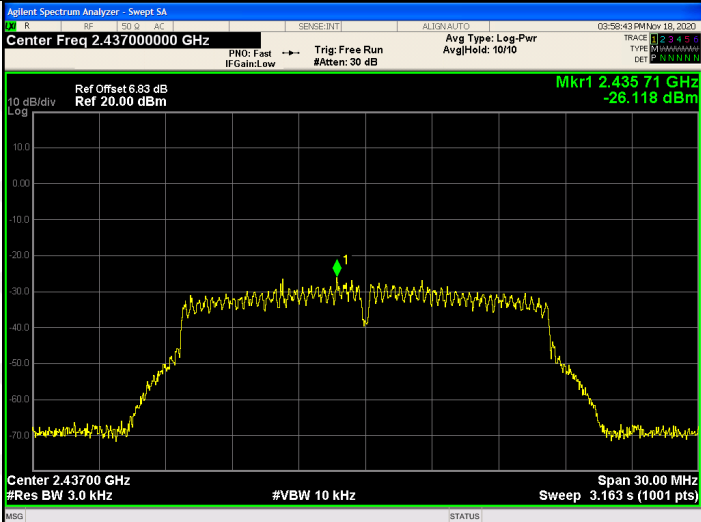
Mode	Channel.	Power Spectral Density (dBm/3KHz)	Limit(dBm)	Verdict
802.11b	LCH	-20.613	8	PASS
	MCH	-21.3	8	PASS
	HCH	-21.062	8	PASS
802.11g	LCH	-25.592	8	PASS
	MCH	-26.118	8	PASS
	HCH	-27.038	8	PASS
802.11n(H T20)	LCH	-26.687	8	PASS
	MCH	-27.184	8	PASS
	HCH	-26.921	8	PASS
802.11n(H T40)	LCH	-32.116	8	PASS
	MCH	-32.046	8	PASS
	HCH	-32.068	8	PASS

ANT 2+ANT 3

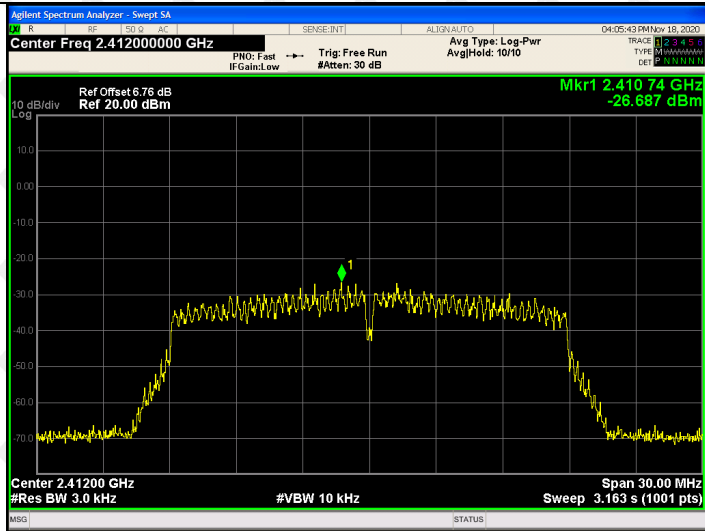
Mode	Channel.	Power Spectral Density (dBm/3KHz) ANT 2	Power Spectral Density (dBm/3KHz) ANT 3	Carrier Frequency Separation [MHz] Total	Limit(dBm)
802.11b	LCH	-21.14	-20.711	/	8
	MCH	-21.587	-19.611	/	8
	HCH	-20.999	-19.678	/	8
802.11g	LCH	-26.107	-26.671	/	8
	MCH	-27.418	-26.93	/	8
	HCH	-26.644	-26.321	/	8
802.11n(H T20)	LCH	-27.633	-27.246	-24.425	8
	MCH	-26.93	-26.905	-23.907	8
	HCH	-27.377	-26.478	-23.894	8
802.11n(H T40)	LCH	-31.864	-32.269	-29.051	8
	MCH	-33.101	-31.651	-29.305	8
	HCH	-32.314	-32.24	-29.267	8

Test Graph:
ANT 1

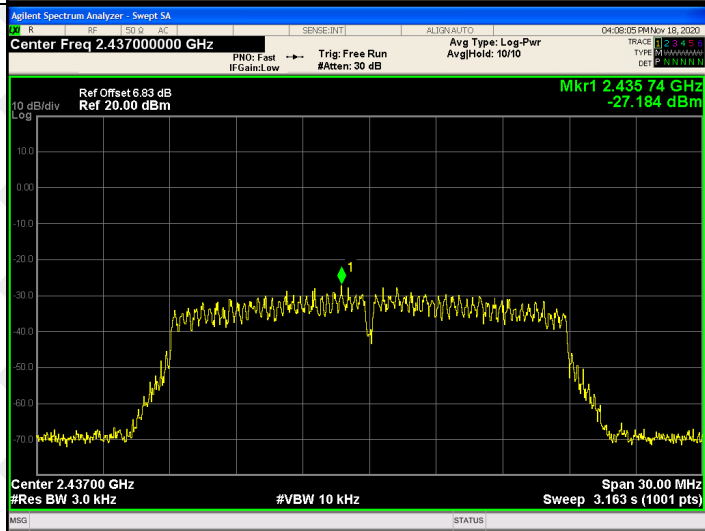
Graphs	
802.11b /LCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.41200000 GHz Ref Offset 6.76 dB Ref 20.00 dBm Mkr1 2.413 71 GHz -20.613 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
802.11b /MCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.43700000 GHz Ref Offset 6.83 dB Ref 20.00 dBm Mkr1 2.438 71 GHz -21.300 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
802.11b/HCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.46200000 GHz Ref Offset 6.8 dB Ref 20.00 dBm Mkr1 2.463 71 GHz -21.062 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>

<p>802.11g/LCH</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.41200000 GHz Ref Offset 6.76 dB Ref 20.00 dBm Mkr1 2.411 04 GHz -25.592 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
<p>802.11g/MCH</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.43700000 GHz Ref Offset 6.53 dB Ref 20.00 dBm Mkr1 2.435 71 GHz -26.118 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
<p>802.11g/HCH</p>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.46200000 GHz Ref Offset 6.8 dB Ref 20.00 dBm Mkr1 2.462 93 GHz -27.038 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>

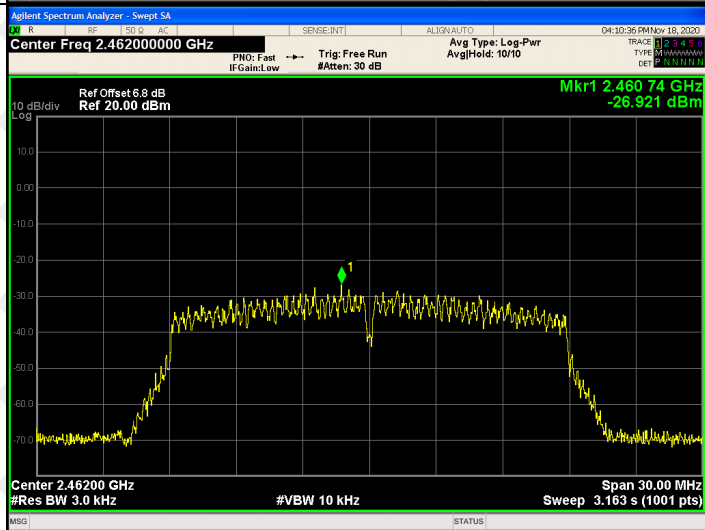
802.11n(HT20)/LC
H



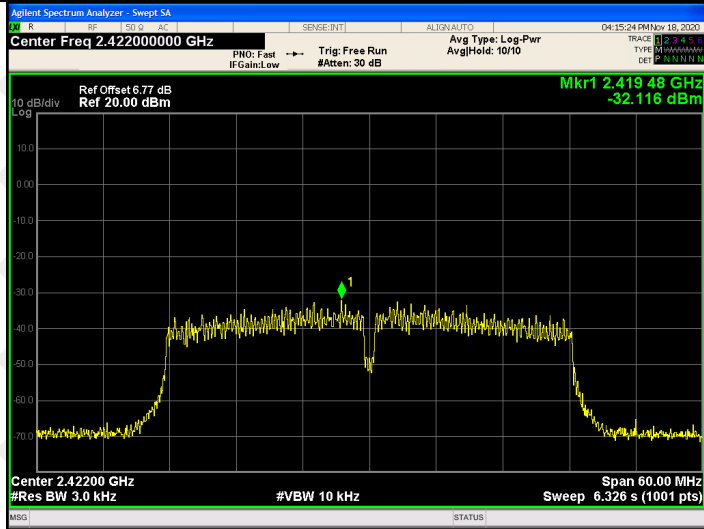
802.11n(HT20)/MC
H



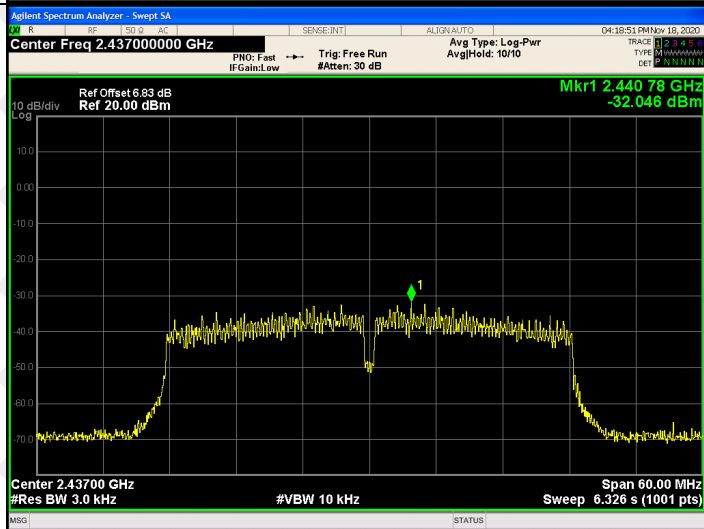
802.11n(HT20)/HC
H



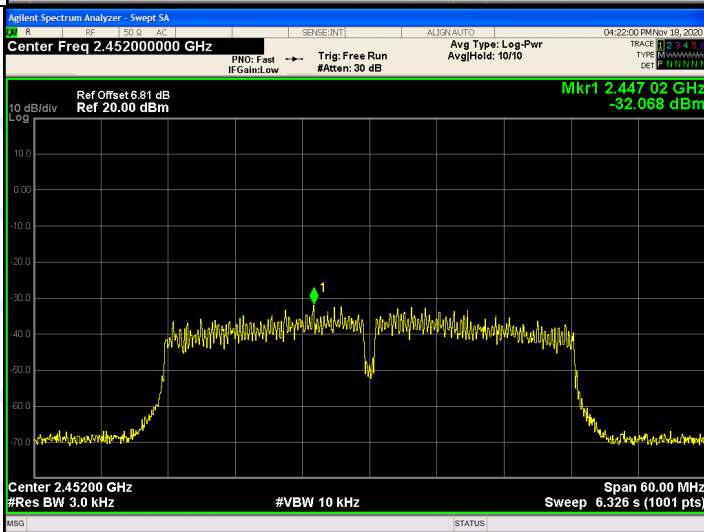
802.11n(HT40)/LC
H



802.11n(HT40)/MC
H

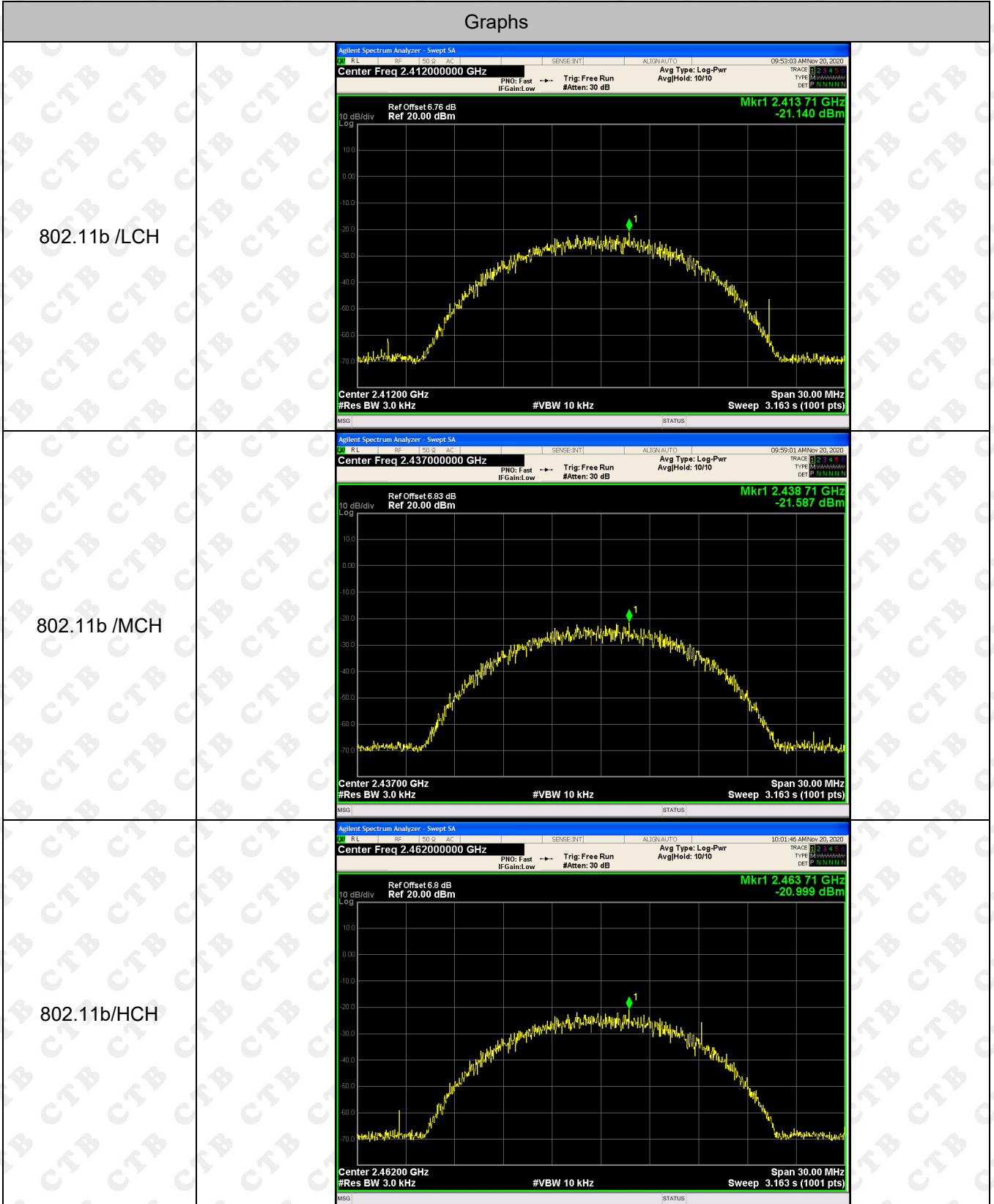


802.11n(HT40)/HC
H

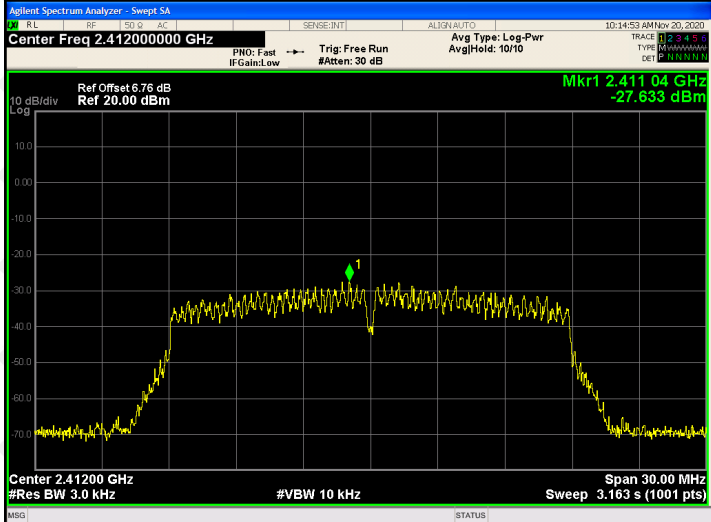
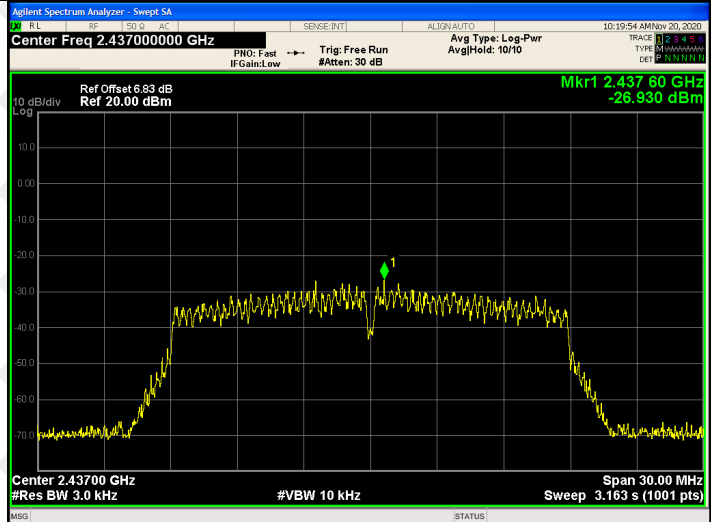
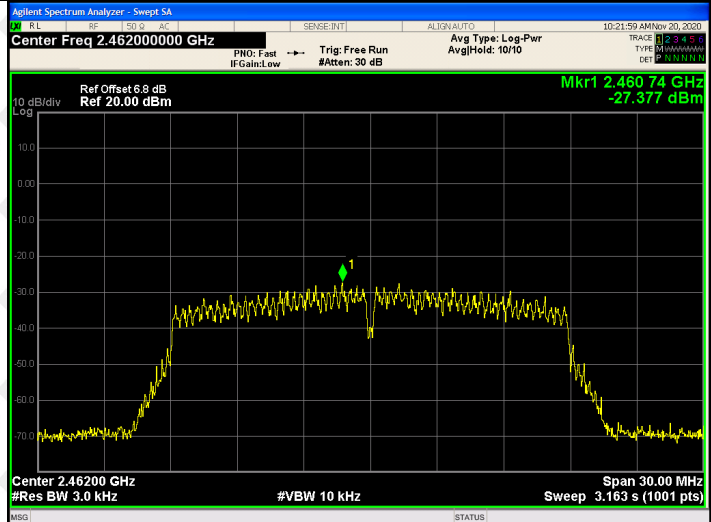


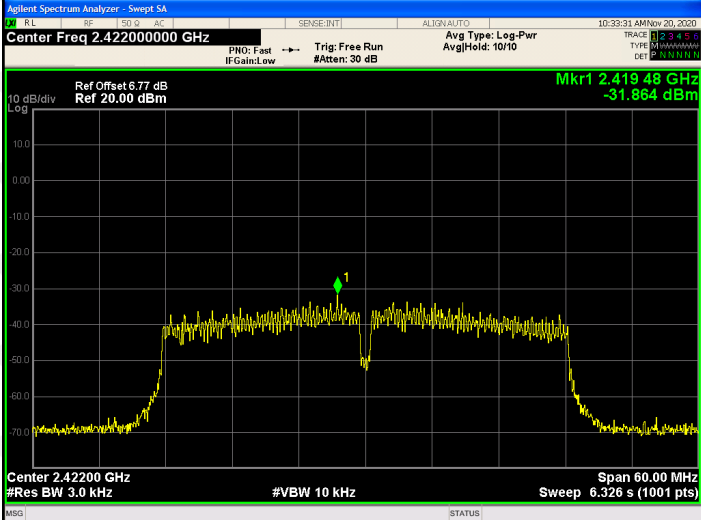
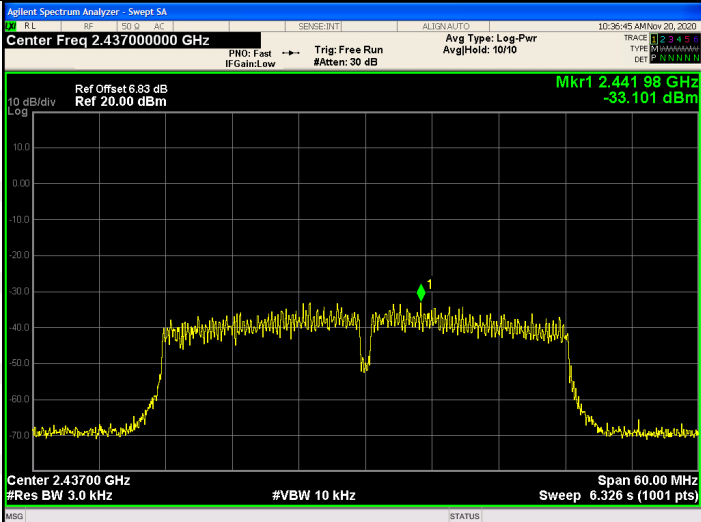
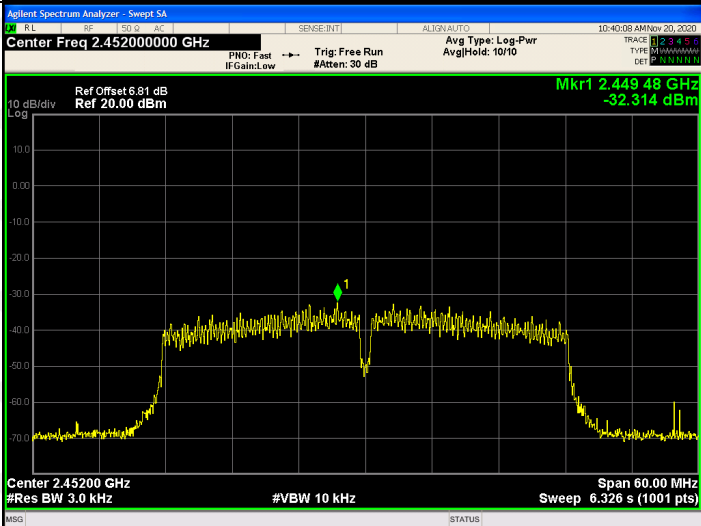
ANT 2

Graphs



<p>802.11g/LCH</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.41200000 GHz Ref Offset 6.76 dB Ref 20.00 dBm Mkr1 2.41074 GHz -26.107 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>	
<p>802.11g/MCH</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.43700000 GHz Ref Offset 6.53 dB Ref 20.00 dBm Mkr1 2.43607 GHz -27.418 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>	
<p>802.11g/HCH</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.46200000 GHz Ref Offset 6.8 dB Ref 20.00 dBm Mkr1 2.46446 GHz -26.644 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>	

<p>802.11n(HT20)/LC H</p>	
<p>802.11n(HT20)/MC H</p>	
<p>802.11n(HT20)/HC H</p>	

<p>802.11n(HT40)/LC H</p>		
<p>802.11n(HT40)/MC H</p>		
<p>802.11n(HT40)/HC H</p>		

ANT 3

Graphs

<p>802.11b /LCH</p>	
<p>802.11b /MCH</p>	
<p>802.11b/HCH</p>	

<p>802.11g/LCH</p>		
<p>802.11g/MCH</p>		
<p>802.11g/HCH</p>		

<p>802.11n(HT20)/LC H</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.41200000 GHz Ref Offset 6.76 dB Ref 20.00 dBm Mkr1 2.411 37 GHz -27.246 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
<p>802.11n(HT20)/MC H</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.43700000 GHz Ref Offset 6.53 dB Ref 20.00 dBm Mkr1 2.436 04 GHz -26.905 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
<p>802.11n(HT20)/HC H</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.46200000 GHz Ref Offset 6.8 dB Ref 20.00 dBm Mkr1 2.462 60 GHz -26.478 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>

<p>802.11n(HT40)/LC H</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.422000000 GHz Ref Offset 6.77 dB Ref 20.00 dBm Mkr1 2.424 52 GHz -32.269 dBm Center 2.42200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.320 s (1001 pts)</p>	
<p>802.11n(HT40)/MC H</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.437000000 GHz Ref Offset 6.53 dB Ref 20.00 dBm Mkr1 2.434 48 GHz -31.651 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 100 kHz Span 60.00 MHz Sweep 6.133 s (1001 pts)</p>	
<p>802.11n(HT40)/HC H</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.452000000 GHz Ref Offset 6.81 dB Ref 20.00 dBm Mkr1 2.449 48 GHz -32.240 dBm Center 2.45200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.320 s (1001 pts)</p>	

12. ANTENNA REQUIREMENT

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is Internal Antenna and no consideration of replacement. The best case gain of the antenna is 2.0dBi.

13. EUT PHOTOGRAPHS

EUT Photo 1

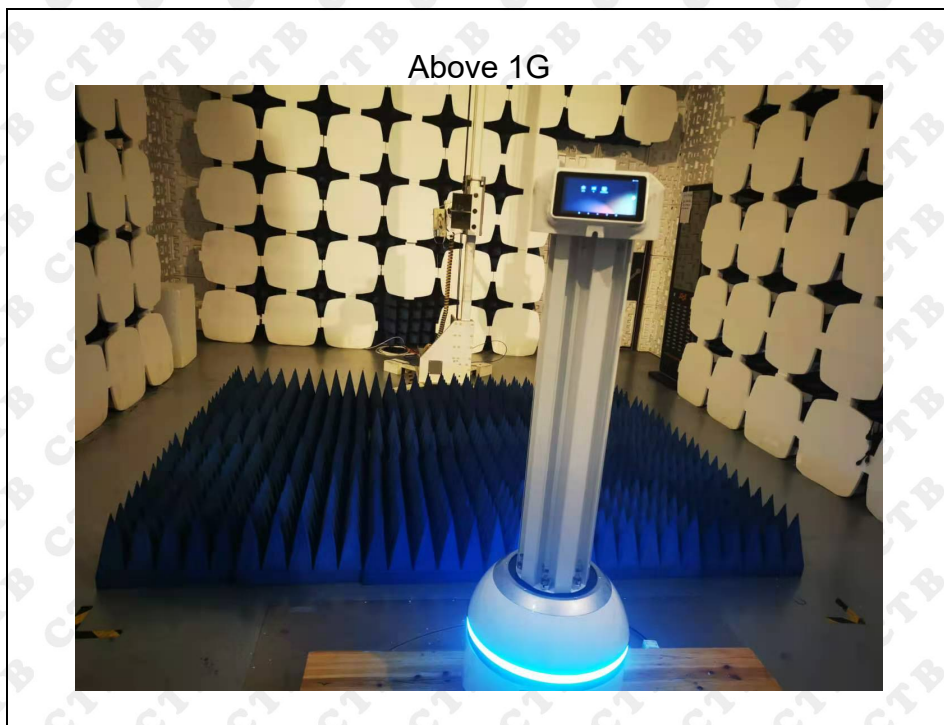


EUT Photo 2



14. EUT TEST SETUP PHOTOGRAPHS

Radiated Emissions



Conducted Emissions



***** END OF REPORT *****