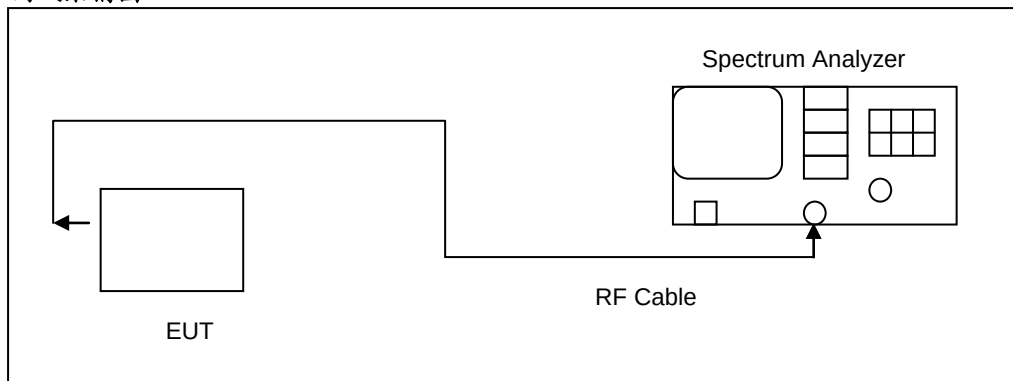


CDD/MIMO mode :

$$\text{Directional Gain} = 10 \cdot \log\{[10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / N_{\text{ANT}}\} = 5.51 \text{ dBi} < 6 \text{ dBi}$$

測試架構圖：



測試結果:

操作模式	: Mode 6 / Mode 9 / Mode 10 / Mode 11 / Mode 12
------	---

ANT-0						
操作模式	頻道 (CH)	頻率 (MHz)	量測值 (dBm/MHz)	Duty Factor (dB)	轉換值 (dBm/MHz)	限制值 (dBm/MHz)
Mode 6	36	5180.0	-1.663	0.640	-1.023	11
	40	5200.0	-1.808	0.640	-1.168	11
	48	5240.0	-1.874	0.640	-1.234	11
	52	5260.0	-2.289	0.640	-1.649	11
	56	5280.0	-2.763	0.640	-2.123	11
	64	5320.0	-2.940	0.640	-2.300	11
	100	5500.0	-3.450	0.640	-2.810	11
	112	5560.0	-2.967	0.640	-2.327	11
	140	5700.0	-2.223	0.640	-1.583	11
Mode 9	36	5180.0	-2.253	0.682	-1.571	11
	40	5200.0	-2.361	0.682	-1.679	11
	48	5240.0	-2.152	0.682	-1.470	11
	52	5260.0	-2.521	0.682	-1.839	11
	56	5280.0	-2.863	0.682	-2.181	11
	64	5320.0	-2.997	0.682	-2.315	11
	100	5500.0	-3.989	0.682	-3.307	11
	112	5560.0	-3.427	0.682	-2.745	11
	140	5700.0	-2.658	0.682	-1.976	11
Mode 10	38	5190.0	-7.045	0.621	-6.424	11
	46	5230.0	-5.344	0.621	-4.723	11
	54	5270.0	-5.680	0.621	-5.059	11
	62	5310.0	-6.249	0.621	-5.628	11
	102	5510.0	-6.850	0.621	-6.229	11
	110	5550.0	-6.330	0.621	-5.709	11
	134	5670.0	-5.446	0.621	-4.825	11
Mode 11	42	5210.0	-13.044	0.646	-12.398	11
	58	5290.0	-10.350	0.646	-9.704	11
	106	5530.0	-8.863	0.646	-8.217	11
Mode 12	50	5250.0	-17.741	0.941	-16.800	11
	50	5250.0	-18.028	0.941	-17.087	11

Note: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + dutNote: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + duty factory.
 Conversion ration = 10*Log(500 kHz/100 kHz)

操作模式	: Mode 6 / Mode 9 / Mode 10 / Mode 11
------	---------------------------------------

ANT-0						
操作模式	頻道 (CH)	頻率 (MHz)	量測值 (dBm/100 kHz)	Duty Factor (dB)	轉換值 (dBm/500 kHz)	限制值 (dBm/500 kHz)
Mode 6	149	5745.0	-11.311	0.640	-3.682	30
	157	5785.0	-11.707	0.640	-4.078	30
	165	5825.0	-11.730	0.640	-4.101	30
Mode 9	149	5745.0	-11.629	0.682	-3.957	30
	157	5785.0	-11.689	0.682	-4.017	30
	165	5825.0	-12.017	0.682	-4.345	30
Mode 10	151	5755.0	-14.170	0.621	-6.559	30
	159	5795.0	-14.141	0.621	-6.530	30
Mode 11	155	5775.0	-16.047	0.646	-8.412	30

Note: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + duty factory.

Conversion ration = 10*Log(500 kHz/100 kHz)

操作模式	: Mode 6 / Mode 9 / Mode 10 / Mode 11 / Mode 12
------	---

ANT-1						
操作模式	頻道 (CH)	頻率 (MHz)	量測值 (dBm/MHz)	Duty Factor (dB)	轉換值 (dBm/MHz)	限制值 (dBm/MHz)
Mode 6	36	5180.0	-2.342	0.640	-1.702	11
	40	5200.0	-2.058	0.640	-1.418	11
	48	5240.0	-2.488	0.640	-1.848	11
	52	5260.0	-2.589	0.640	-1.949	11
	56	5280.0	-2.947	0.640	-2.307	11
	64	5320.0	-2.951	0.640	-2.311	11
	100	5500.0	-2.820	0.640	-2.180	11
	112	5560.0	-2.176	0.640	-1.536	11
Mode 9	140	5700.0	-1.440	0.640	-0.800	11
	36	5180.0	-2.478	0.682	-1.796	11
	40	5200.0	-2.421	0.682	-1.739	11
	48	5240.0	-2.578	0.682	-1.896	11
	52	5260.0	-2.935	0.682	-2.253	11
	56	5280.0	-3.097	0.682	-2.415	11
	64	5320.0	-3.222	0.682	-2.540	11
	100	5500.0	-3.513	0.682	-2.831	11
Mode 10	112	5560.0	-2.655	0.682	-1.973	11
	140	5700.0	-1.816	0.682	-1.134	11
	38	5190.0	-6.982	0.621	-6.361	11
	46	5230.0	-5.457	0.621	-4.836	11
	54	5270.0	-5.955	0.621	-5.334	11
	62	5310.0	-6.226	0.621	-5.605	11
	102	5510.0	-6.128	0.621	-5.507	11
Mode 11	110	5550.0	-5.757	0.621	-5.136	11
	134	5670.0	-4.776	0.621	-4.155	11
	42	5210.0	-12.805	0.646	-12.159	11
Mode 12	58	5290.0	-10.549	0.646	-9.903	11
	106	5530.0	-7.991	0.646	-7.345	11
Mode 12	50	5250.0	-17.854	0.941	-16.913	11
	50	5250.0	-18.212	0.941	-17.271	11

Note: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + dutNote: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + duty factory.
 Conversion ration = 10*Log(500 kHz/100 kHz)

操作模式	: Mode 6 / Mode 9 / Mode 10 / Mode 11
------	---------------------------------------

ANT-1						
操作模式	頻道 (CH)	頻率 (MHz)	量測值 (dBm/100 kHz)	Duty Factor (dB)	轉換值 (dBm/500 kHz)	限制值 (dBm/500 kHz)
Mode 6	149	5745.0	-11.728	0.640	-4.099	30
	157	5785.0	-12.384	0.640	-4.755	30
	165	5825.0	-12.579	0.640	-4.950	30
Mode 9	149	5745.0	-11.237	0.682	-3.565	30
	157	5785.0	-12.223	0.682	-4.551	30
	165	5825.0	-12.360	0.682	-4.688	30
Mode 10	151	5755.0	-14.327	0.621	-6.716	30
	159	5795.0	-15.048	0.621	-7.437	30
Mode 11	155	5775.0	-16.778	0.646	-9.143	30

Note: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + duty factory.

Conversion ration = 10*Log(500 kHz/100 kHz)

操作模式	: Mode 6 / Mode 9 / Mode 10 / Mode 11 / Mode 12
------	---

ANT-0+1				
操作模式	頻道 (CH)	頻率 (MHz)	轉換值(dBm/MHz)	限制值 (dBm/MHz)
Mode 6	36	5180.0	1.661	11
	40	5200.0	1.719	11
	48	5240.0	1.480	11
	52	5260.0	1.213	11
	56	5280.0	0.796	11
	64	5320.0	0.704	11
	100	5500.0	0.526	11
	112	5560.0	1.096	11
	140	5700.0	1.836	11
Mode 9	36	5180.0	1.328	11
	40	5200.0	1.301	11
	48	5240.0	1.332	11
	52	5260.0	0.969	11
	56	5280.0	0.714	11
	64	5320.0	0.584	11
	100	5500.0	-0.052	11
	112	5560.0	0.668	11
	140	5700.0	1.476	11
Mode 10	38	5190.0	-3.382	11
	46	5230.0	-1.768	11
	54	5270.0	-2.184	11
	62	5310.0	-2.606	11
	102	5510.0	-2.842	11
	110	5550.0	-2.402	11
	134	5670.0	-1.466	11
Mode 11	42	5210.0	-9.267	11
	58	5290.0	-6.792	11
	106	5530.0	-4.749	11
Mode 12	50	5250.0	-13.845	11
	50	5250.0	-14.167	11

Note: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + dutNote: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + duty factory.
 Conversion ration = 10*Log(500 kHz/100 kHz)

操作模式	: Mode 6 / Mode 9 / Mode 10 / Mode 11
------	---------------------------------------

ANT-0+1				
操作模式	頻道 (CH)	頻率 (MHz)	轉換值(dBm/500 kHz)	限制值 (dBm/500 kHz)
Mode 6	149	5745.0	-0.875	30
	157	5785.0	-1.393	30
	165	5825.0	-1.494	30
Mode 9	149	5745.0	-0.747	30
	157	5785.0	-1.266	30
	165	5825.0	-1.503	30
Mode 10	151	5755.0	-3.626	30
	159	5795.0	-3.949	30
Mode 11	155	5775.0	-5.751	30

Note: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + duty factory.

Conversion ration = 10*Log(500 kHz/100 kHz)

Mode 6: IEEE 802.11a Continuous TX Mode_ANT-0

CH36



CH40



CH48



Mode 6: IEEE 802.11a Continuous TX Mode_ANT-0

CH52



CH56



CH64



Mode 6: IEEE 802.11a Continuous TX Mode_ANT-0

CH100



CH112

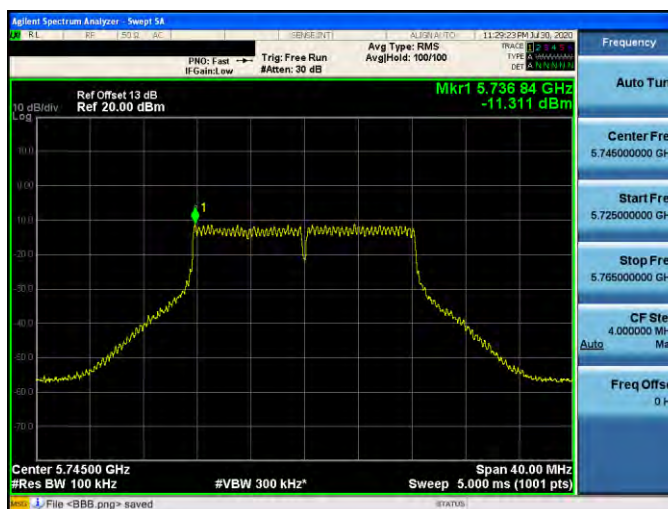


CH140

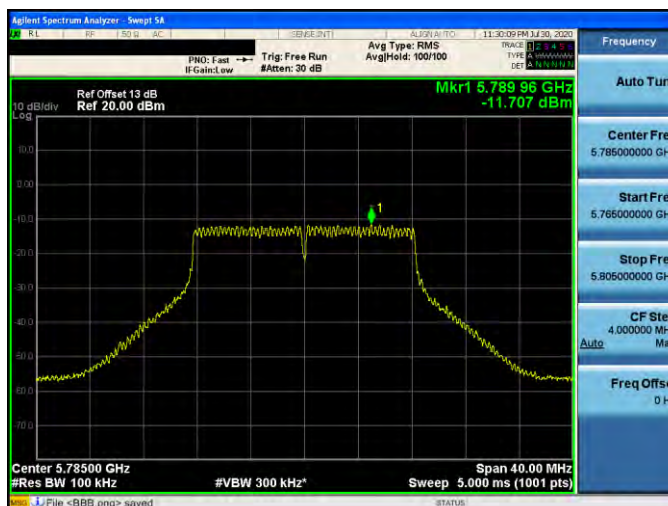


Mode 6: IEEE 802.11a Continuous TX Mode_ANT-0

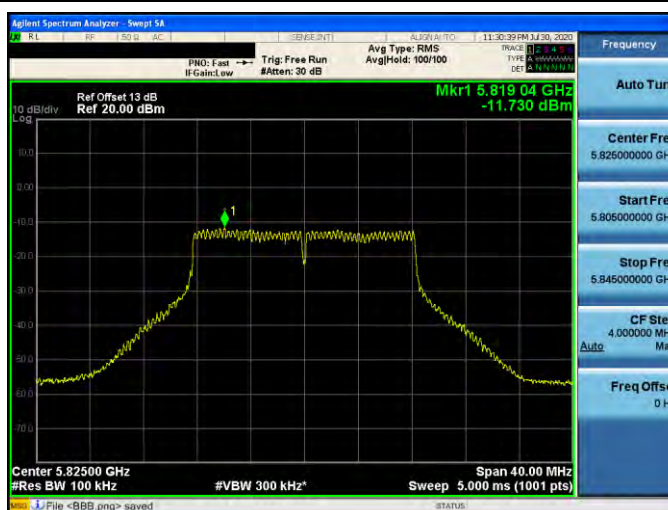
CH149



CH157



CH165



Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

CH36



CH40



CH48



Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

CH52



CH56



CH64



Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

CH100

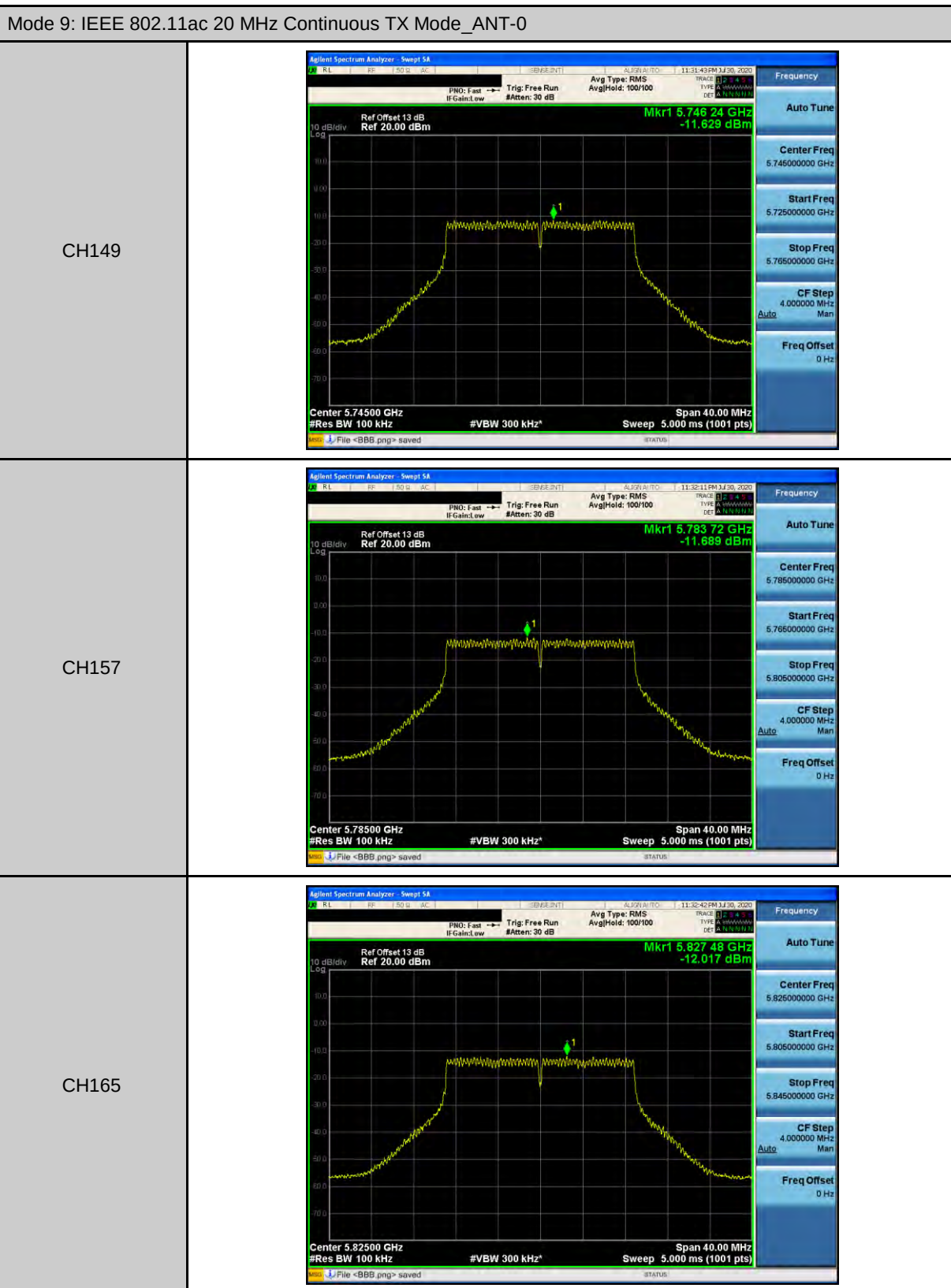


CH112



CH140







Mode 10: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0

CH62

The screenshot shows a spectrum analyzer interface for channel CH62. The main display shows a signal trace with a peak at 5.30502 GHz and a power level of -6.249 dBm. The frequency span is 60.00 MHz, centered at 5.31000 GHz. The resolution bandwidth (Res BW) is 1.0 MHz, and the video bandwidth (VBW) is 3.0 MHz. The sweep rate is 1.000 ms (1001 pts). The reference level is 20.00 dBm, and the reference offset is 13 dB. The interface includes various controls like PBD, Trig, and Avg Type, and a right-hand panel with frequency settings.

CH102

The screenshot shows a spectrum analyzer interface for channel CH102. The main display shows a signal trace with a peak at 5.50580 GHz and a power level of -6.850 dBm. The frequency span is 60.00 MHz, centered at 5.51000 GHz. The resolution bandwidth (Res BW) is 1.0 MHz, and the video bandwidth (VBW) is 3.0 MHz. The sweep rate is 1.000 ms (1001 pts). The reference level is 20.00 dBm, and the reference offset is 13 dB. The interface includes various controls like PBD, Trig, and Avg Type, and a right-hand panel with frequency settings.

CH110

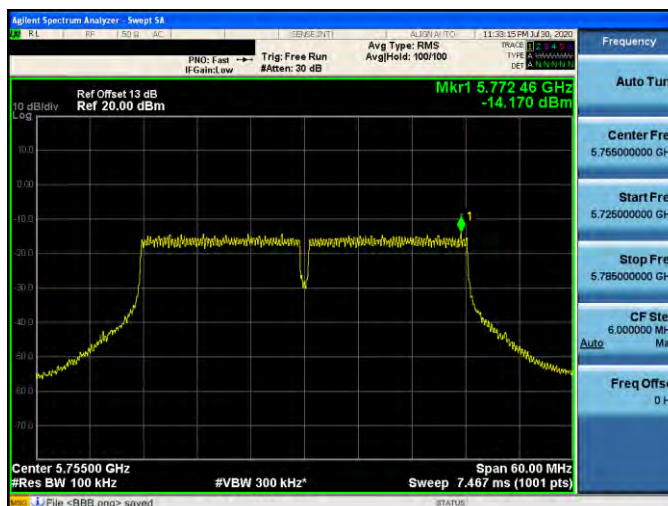
The screenshot shows a spectrum analyzer interface for channel CH110. The main display shows a signal trace with a peak at 5.56358 GHz and a power level of -6.330 dBm. The frequency span is 60.00 MHz, centered at 5.55000 GHz. The resolution bandwidth (Res BW) is 1.0 MHz, and the video bandwidth (VBW) is 3.0 MHz. The sweep rate is 1.000 ms (1001 pts). The reference level is 20.00 dBm, and the reference offset is 13 dB. The interface includes various controls like PBD, Trig, and Avg Type, and a right-hand panel with frequency settings.

Mode 10: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0

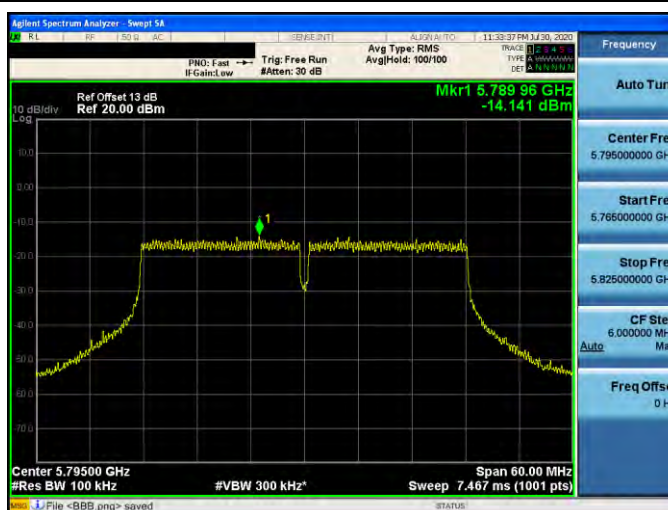
CH134

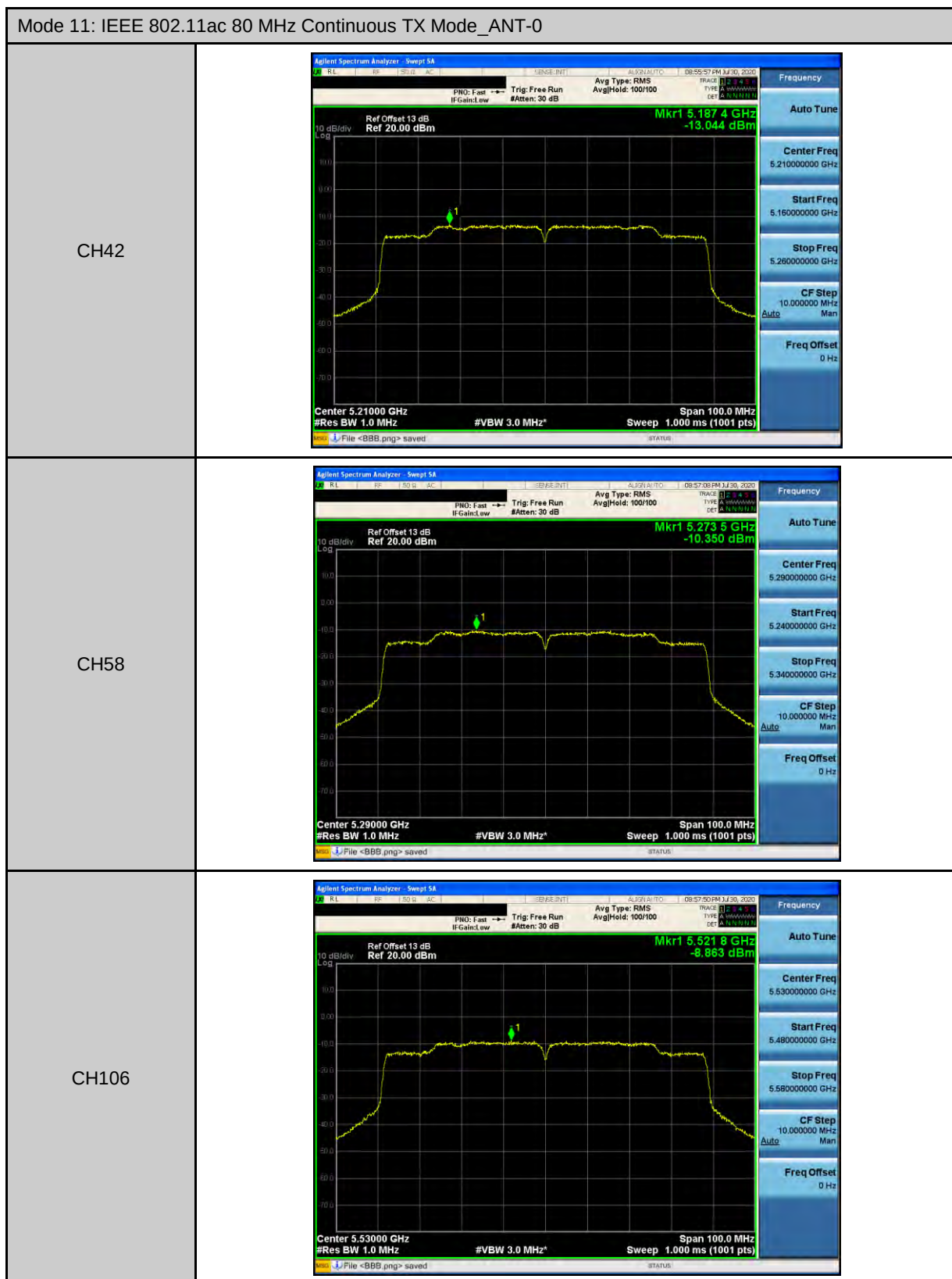


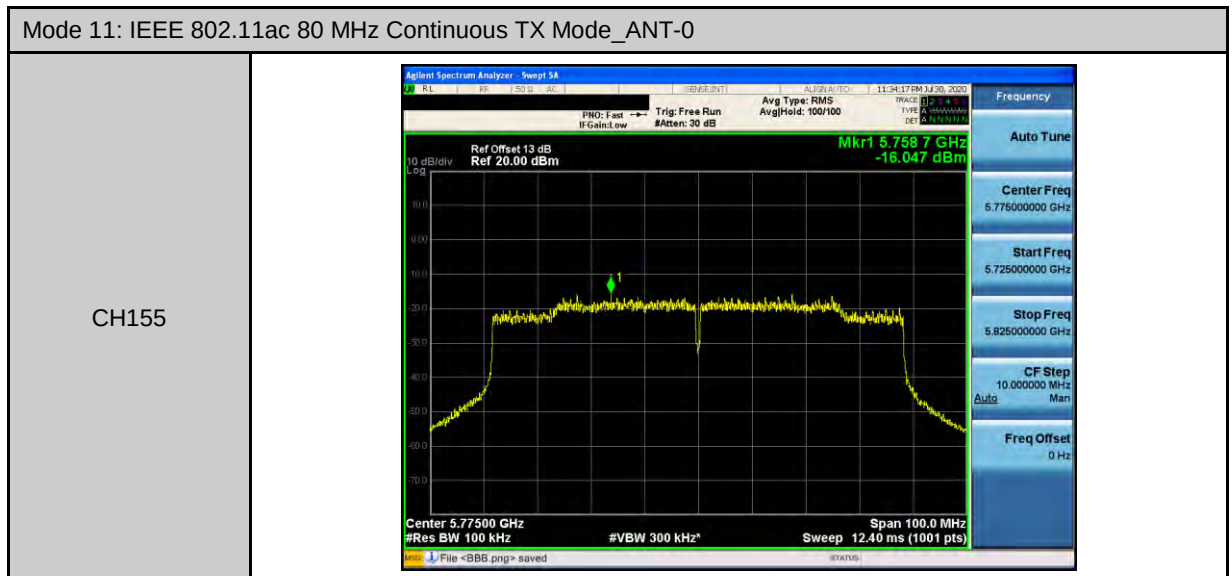
CH151

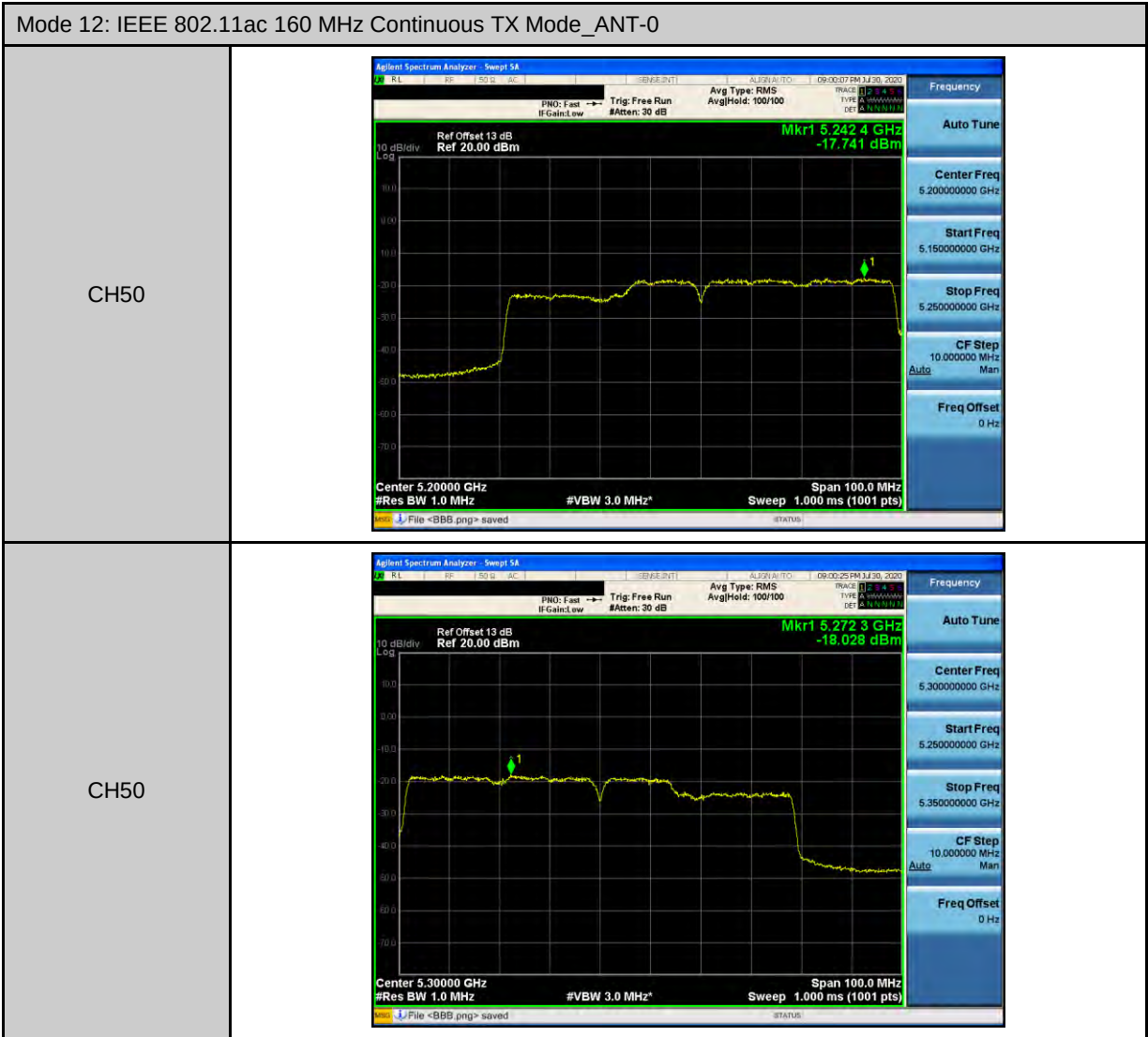


CH159









Mode 6: IEEE 802.11a Continuous TX Mode_ANT-1

CH36



CH40



CH48



Mode 6: IEEE 802.11a Continuous TX Mode _ANT-1

CH52



CH56



CH64



Mode 6: IEEE 802.11a Continuous TX Mode_ANT-1

CH100



CH112



CH140

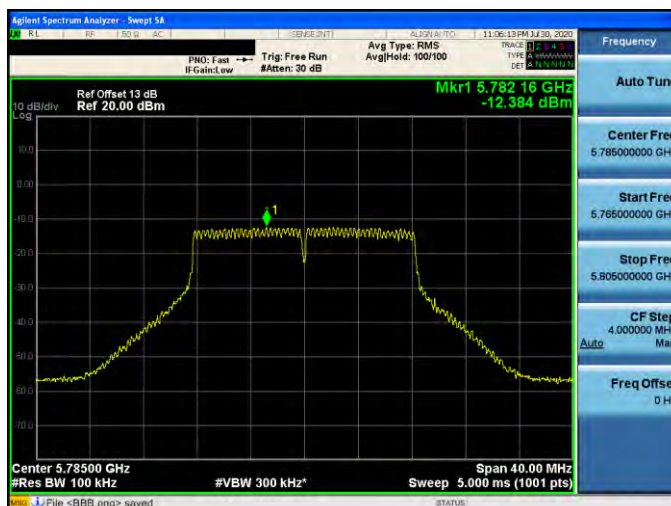


Mode 6: IEEE 802.11a Continuous TX Mode_ANT-1

CH149



CH157

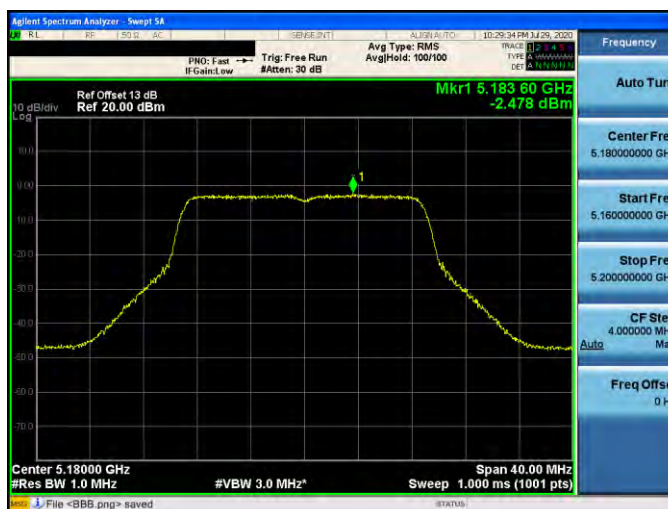


CH165



Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

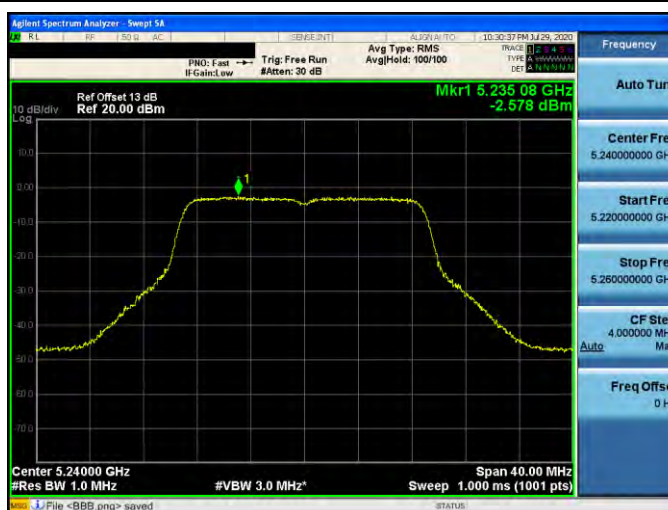
CH36



CH40

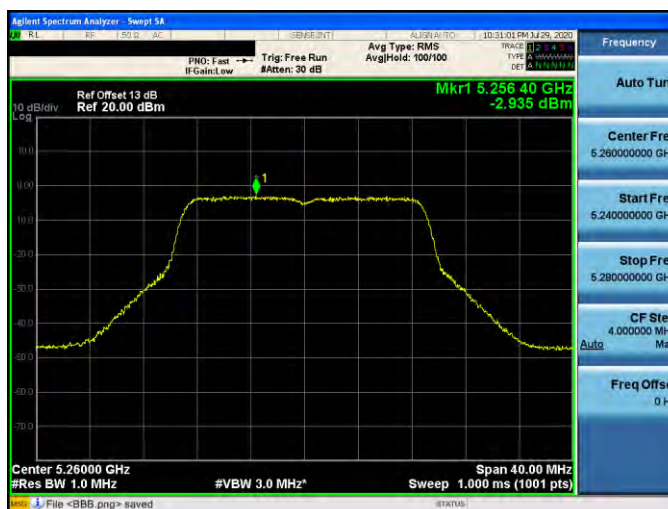


CH48



Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

CH52



CH56

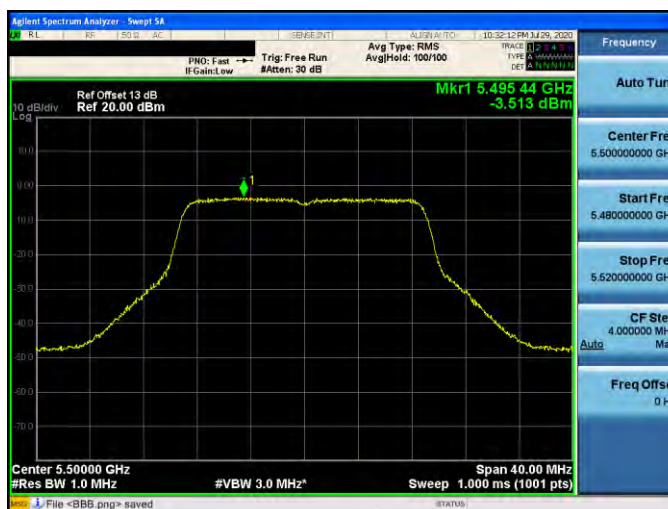


CH64



Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

CH100

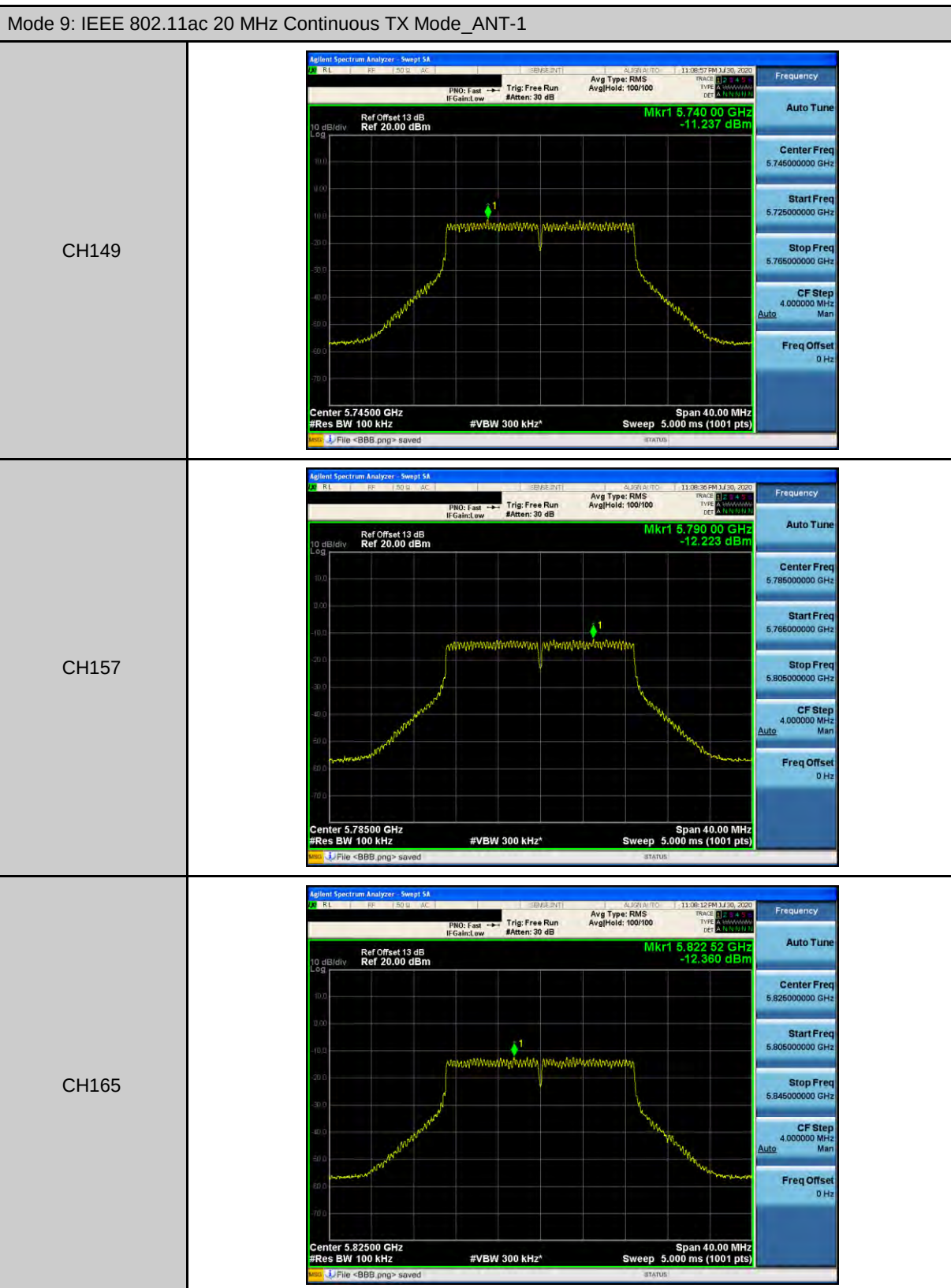


CH112



CH140







Mode 10: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-1

CH62



CH102



CH110

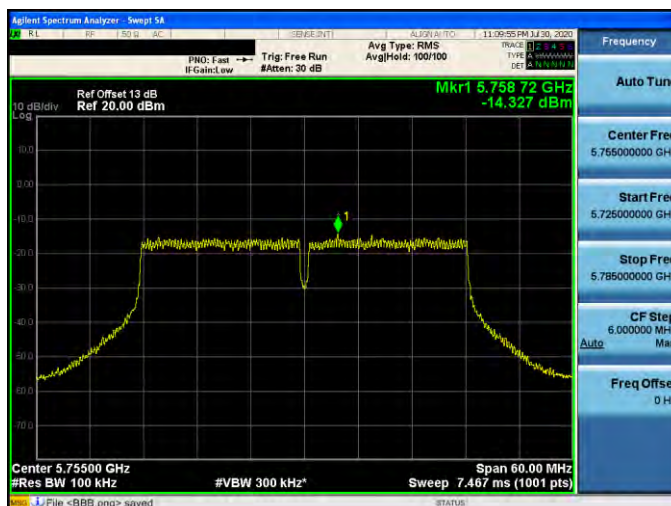


Mode 10: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-1

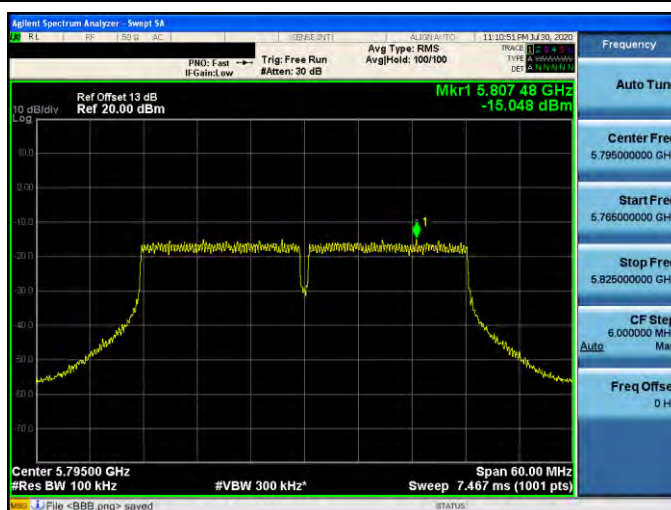
CH134

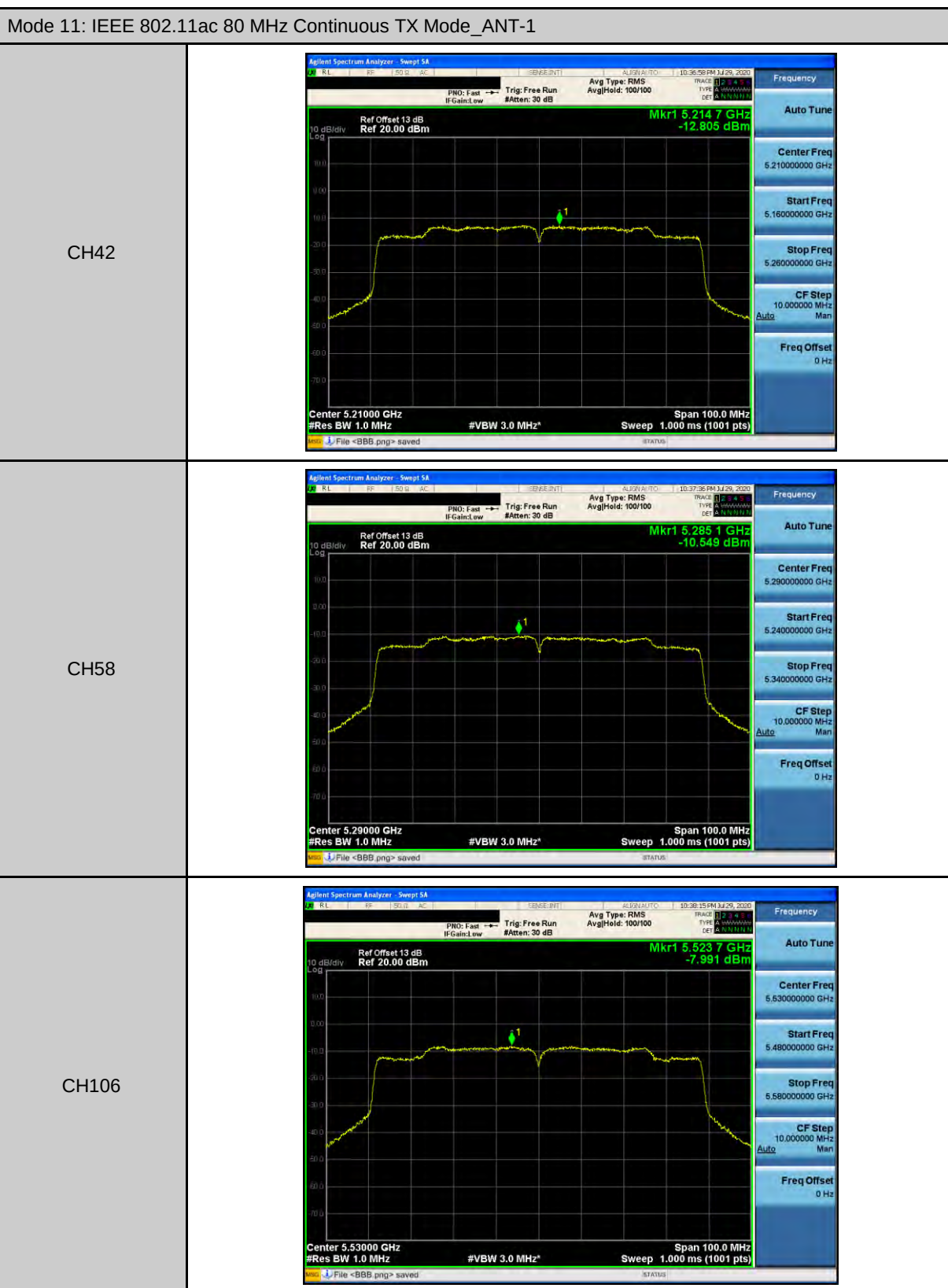


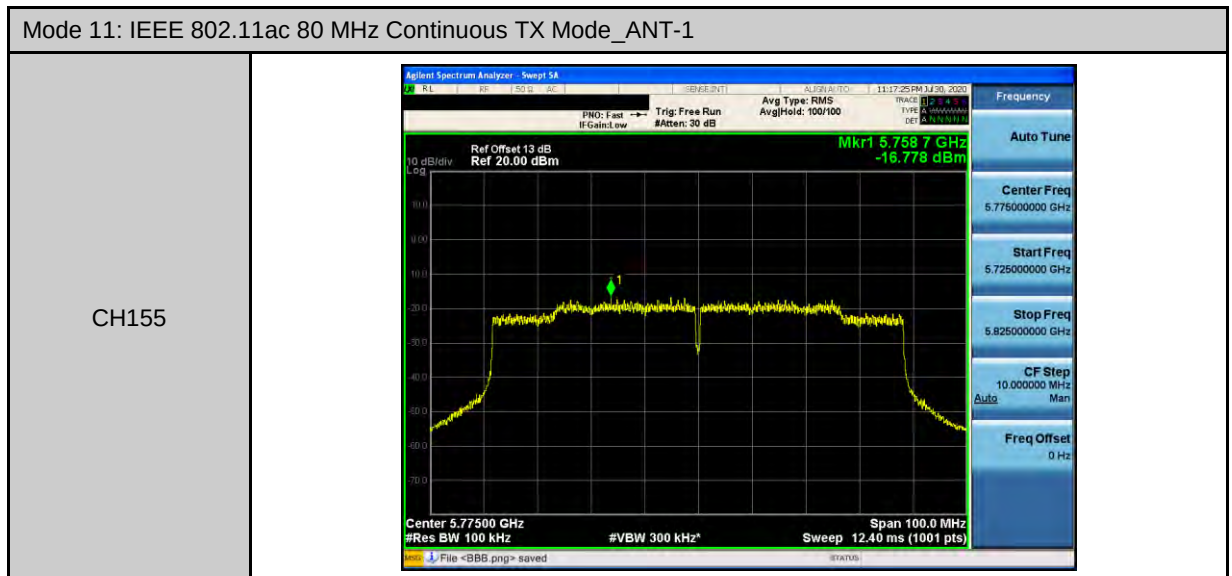
CH151

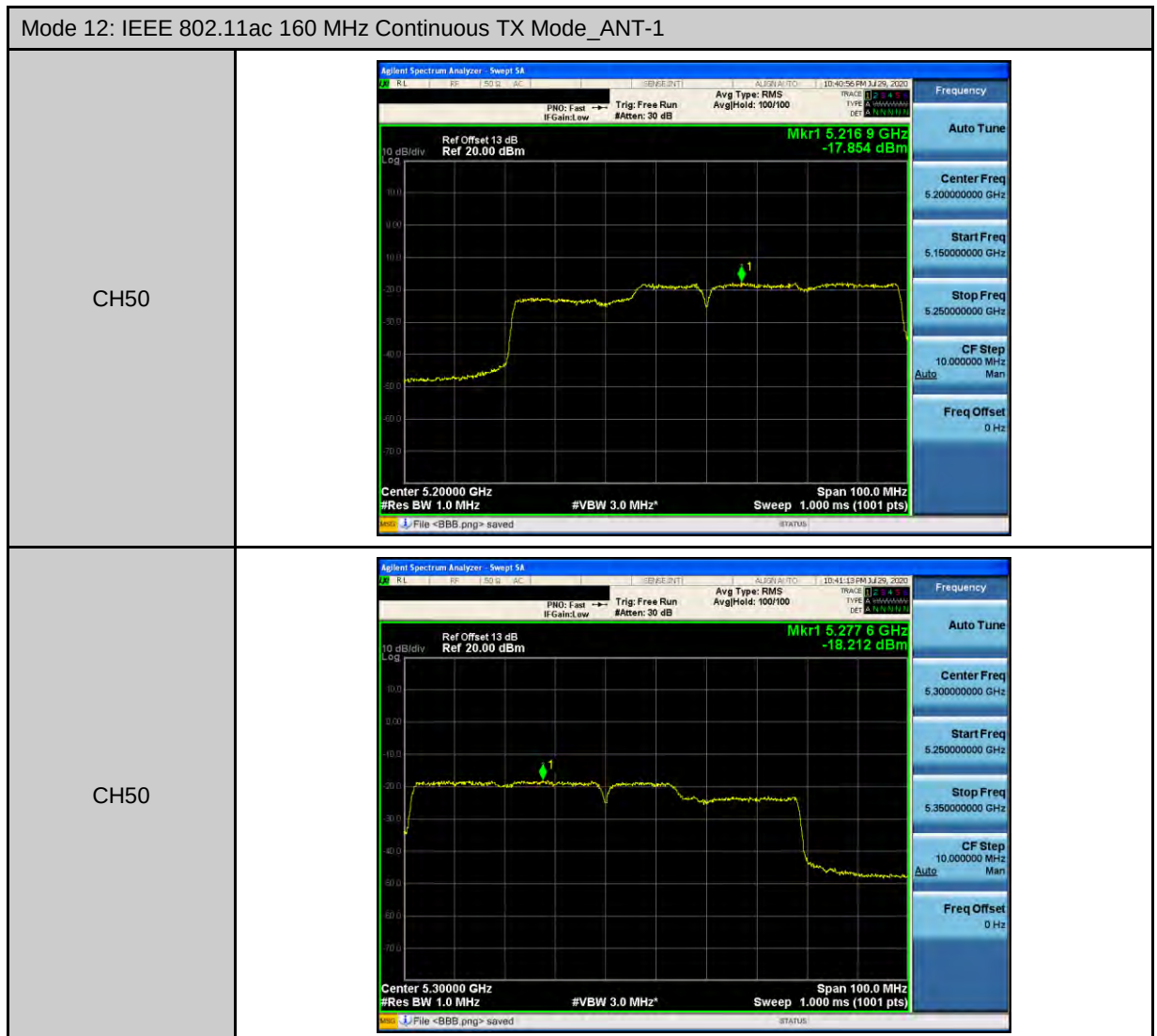


CH159







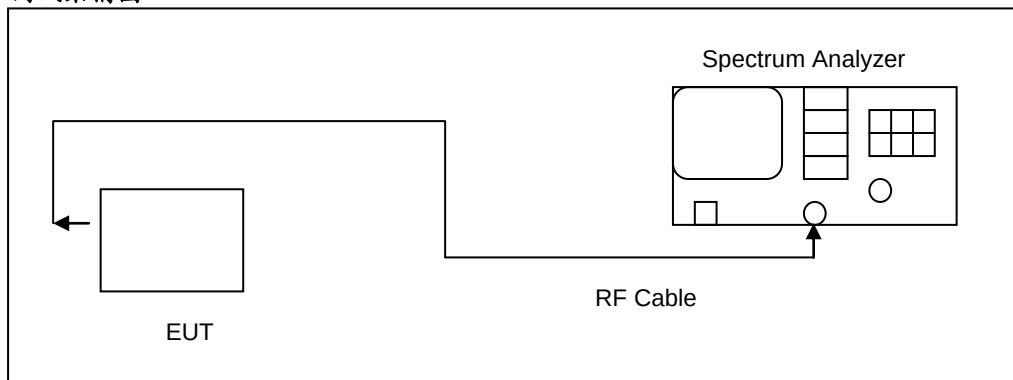


4.3.4 26 dB頻寬之要求

合格標準:

N/A

測試架構圖：



測試結果:

操作模式	: Mode 6 / Mode 7 / Mode 8 / Mode 9 / Mode 10 / Mode 11 / Mode 12
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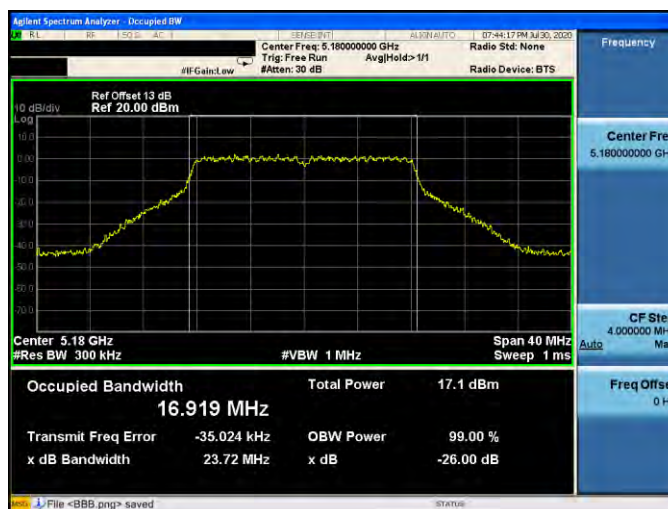
操作模式	頻道 (CH)	頻率 (MHz)	26 dB 頻寬量測值 (MHz)	
			ANT-0	ANT-1
Mode 6	36	5180.0	23.720	24.020
	40	5200.0	23.880	23.750
	48	5240.0	24.050	23.630
	52	5260.0	24.060	24.040
	56	5280.0	23.720	24.060
	64	5320.0	24.160	23.610
	100	5500.0	24.400	24.000
	112	5560.0	24.180	23.680
	140	5700.0	23.350	24.000
Mode 7	52	5260.0	24.180	24.680
	56	5280.0	24.260	24.610
	64	5320.0	24.420	24.110
	100	5500.0	23.660	24.400
	112	5560.0	24.580	24.380
	140	5700.0	24.260	23.920
Mode 8	54	5270.0	43.290	44.720
	62	5310.0	43.750	44.940
	102	5510.0	44.280	46.160
	110	5550.0	43.470	44.660
	134	5670.0	44.260	44.940
Mode 9	36	5180.0	23.760	23.700
	40	5200.0	23.550	24.080
	48	5240.0	24.110	24.420
	52	5260.0	23.920	24.350
	56	5280.0	24.070	24.980
	64	5320.0	24.170	25.030
	100	5500.0	24.110	24.450
	112	5560.0	23.790	24.170
	140	5700.0	24.440	24.630

操作模式	: Mode 6 / Mode 7 / Mode 8 / Mode 9 / Mode 10 / Mode 11 / Mode 12
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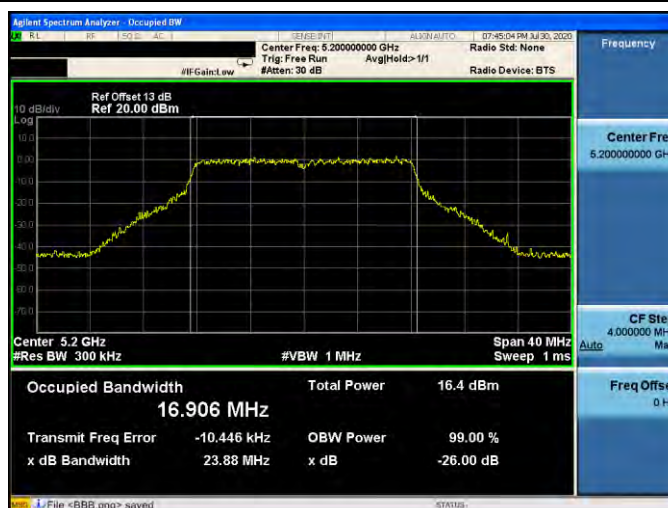
操作模式	頻道 (CH)	頻率 (MHz)	26 dB 頻寬量測值 (MHz)	
			ANT-0	ANT-1
Mode 10	38	5190.0	44.800	44.460
	46	5230.0	43.560	43.580
	54	5270.0	43.730	44.310
	62	5310.0	43.440	44.130
	102	5510.0	44.590	44.630
	110	5550.0	43.280	43.620
	134	5670.0	43.900	44.900
Mode 11	42	5210.0	82.690	87.020
	58	5290.0	87.000	87.990
	106	5530.0	82.720	85.790
Mode 12	50	5250.0	82.270	84.250
	50	5250.0	81.390	83.540

Mode 6: IEEE 802.11a Continuous TX Mode_ANT-0

CH36



CH40



CH48

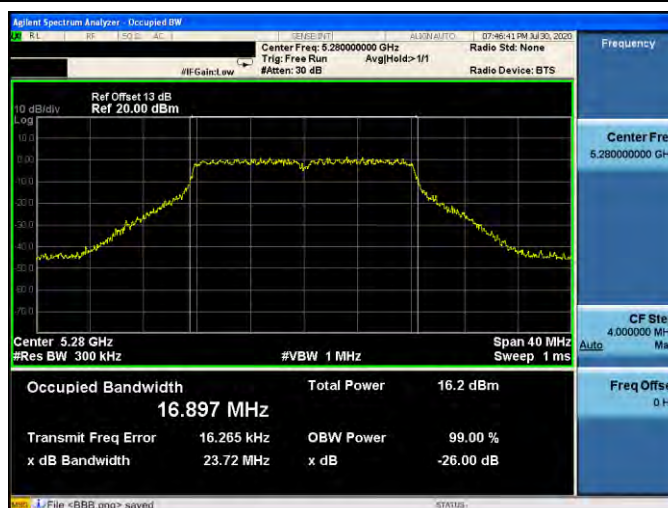


Mode 6: IEEE 802.11a Continuous TX Mode_ANT-0

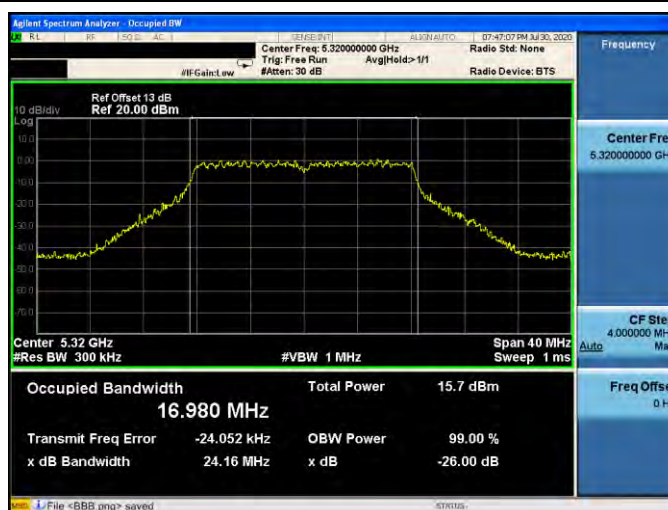
CH52



CH56



CH64

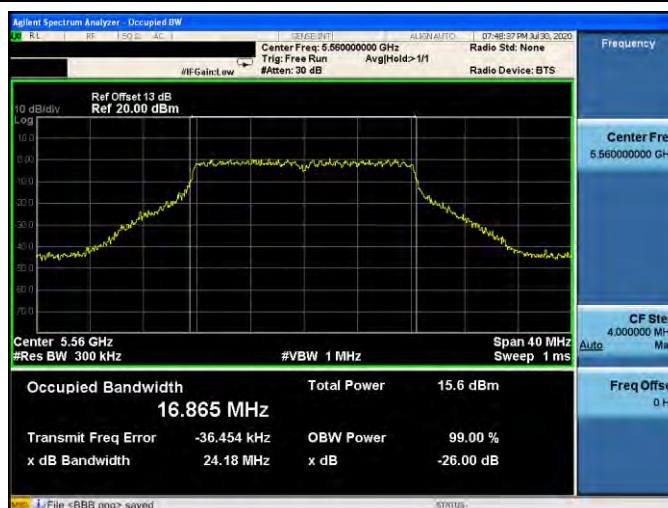


Mode 6: IEEE 802.11a Continuous TX Mode_ANT-0

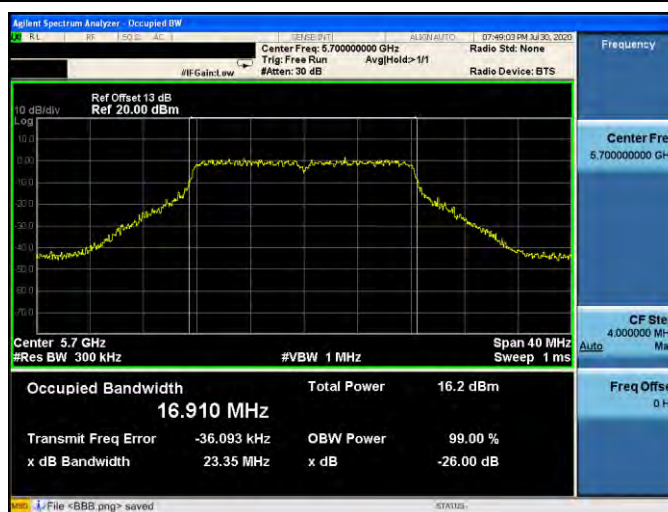
CH100



CH112

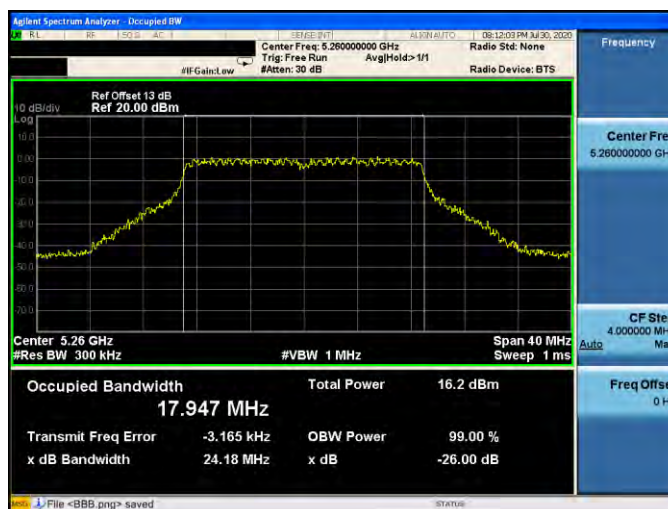


CH140

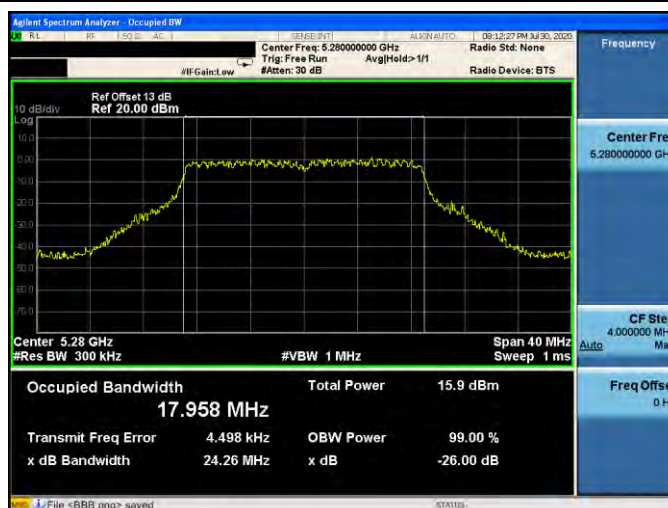


Mode 7: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-0

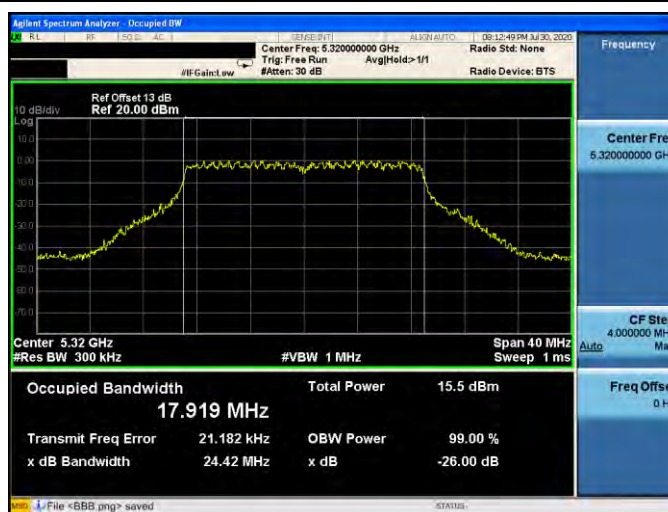
CH52

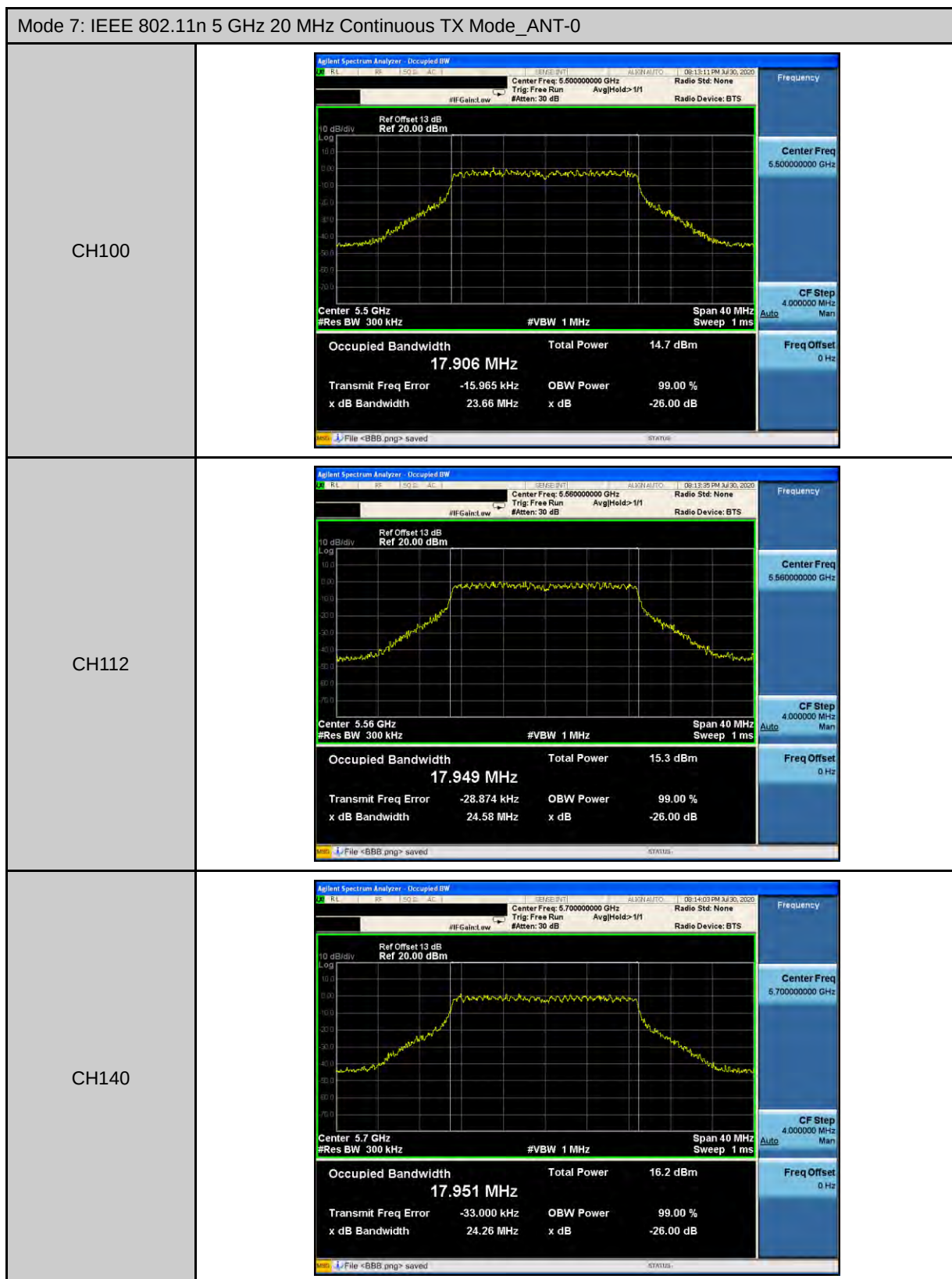


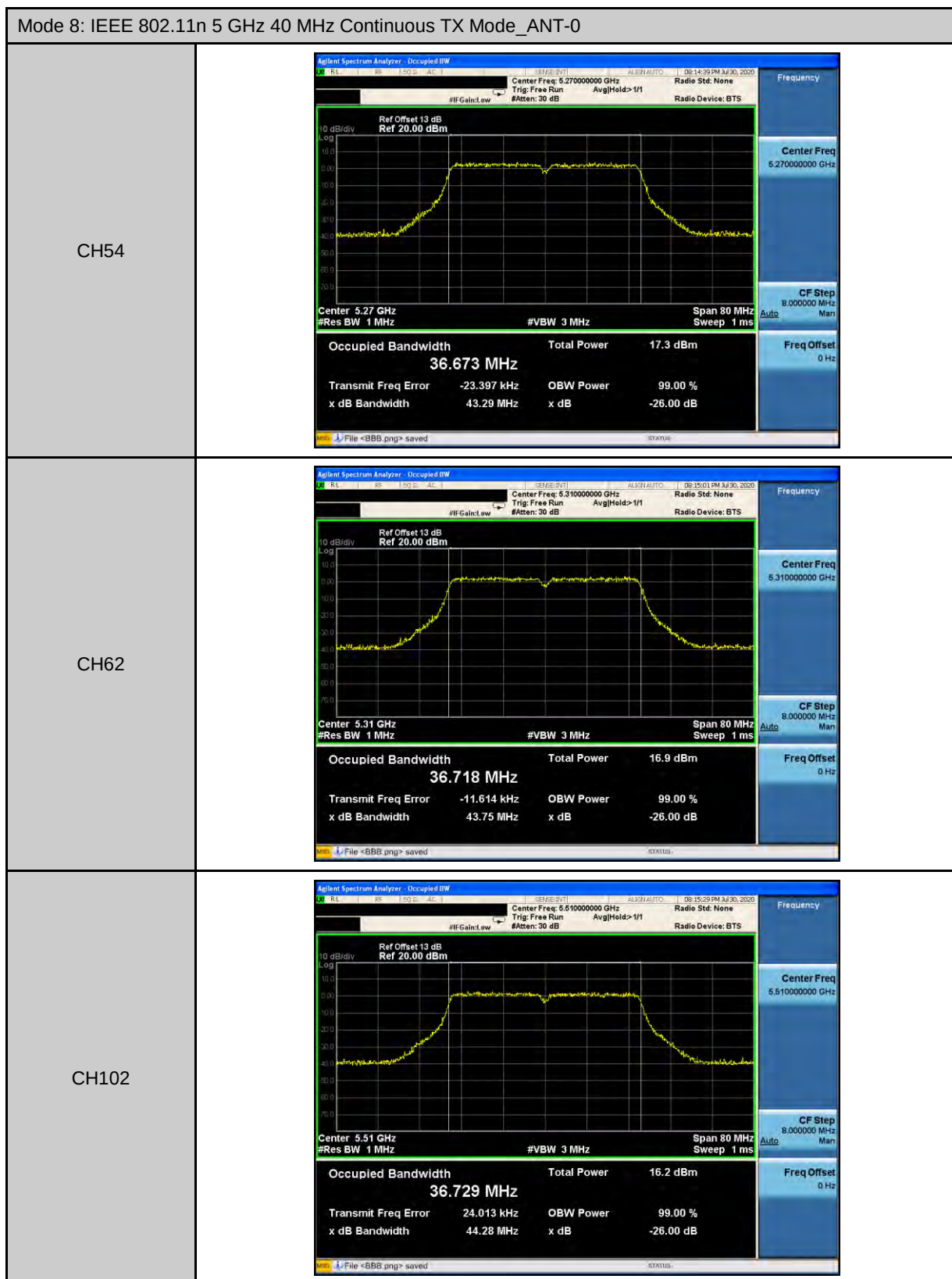
CH56



CH64







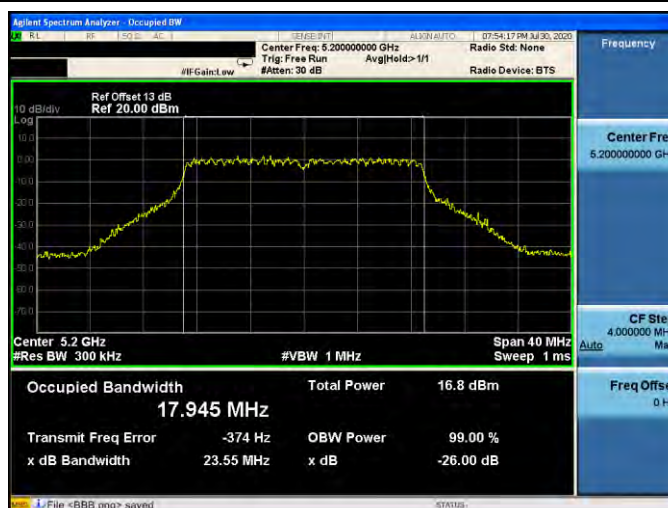


Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

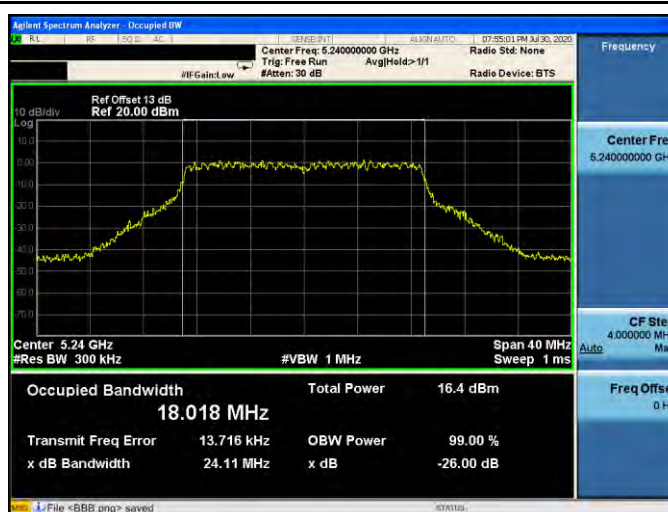
CH36



CH40



CH48

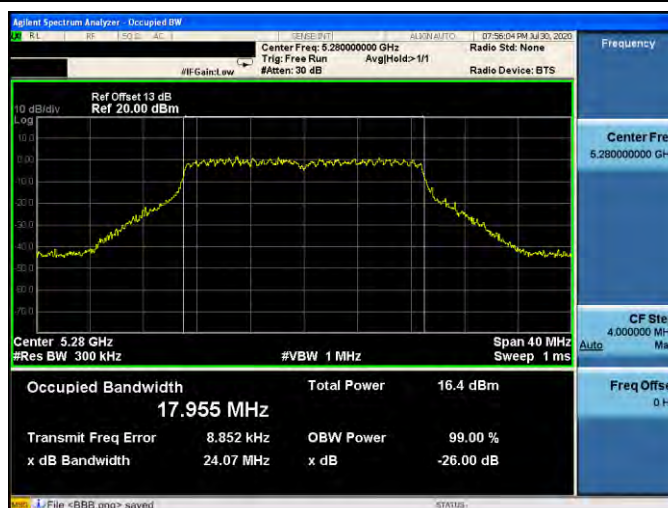


Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

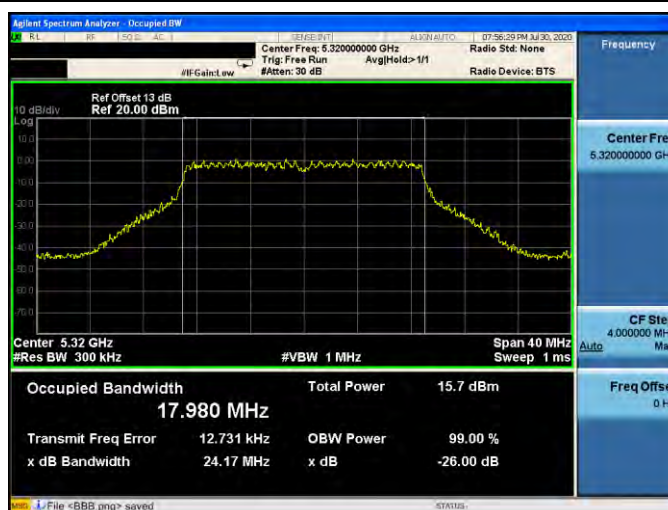
CH52



CH56

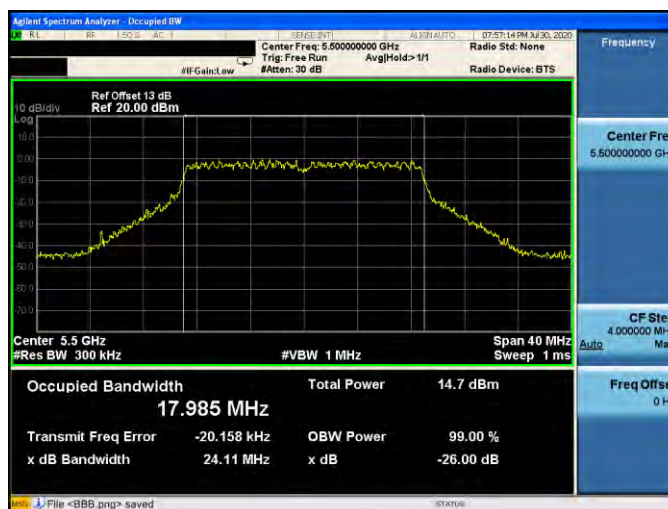


CH64

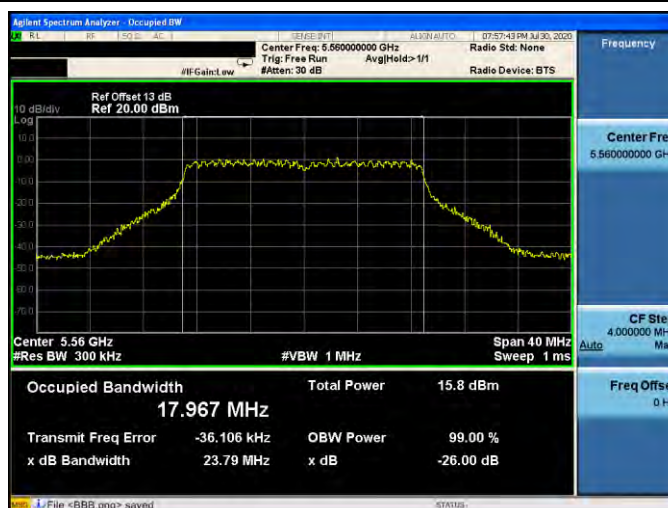


Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

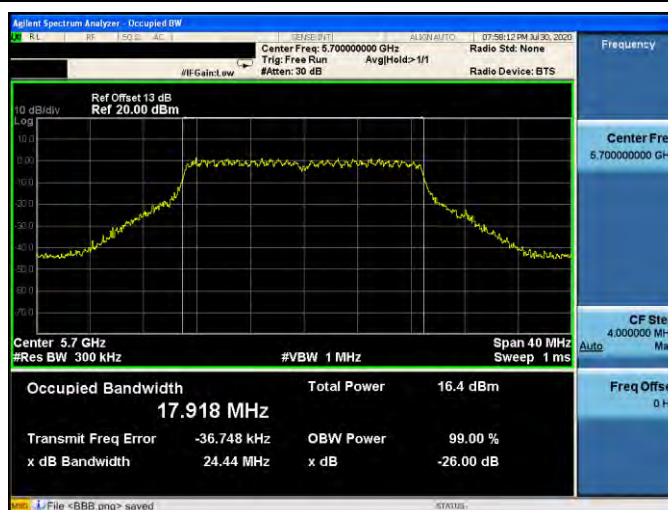
CH100

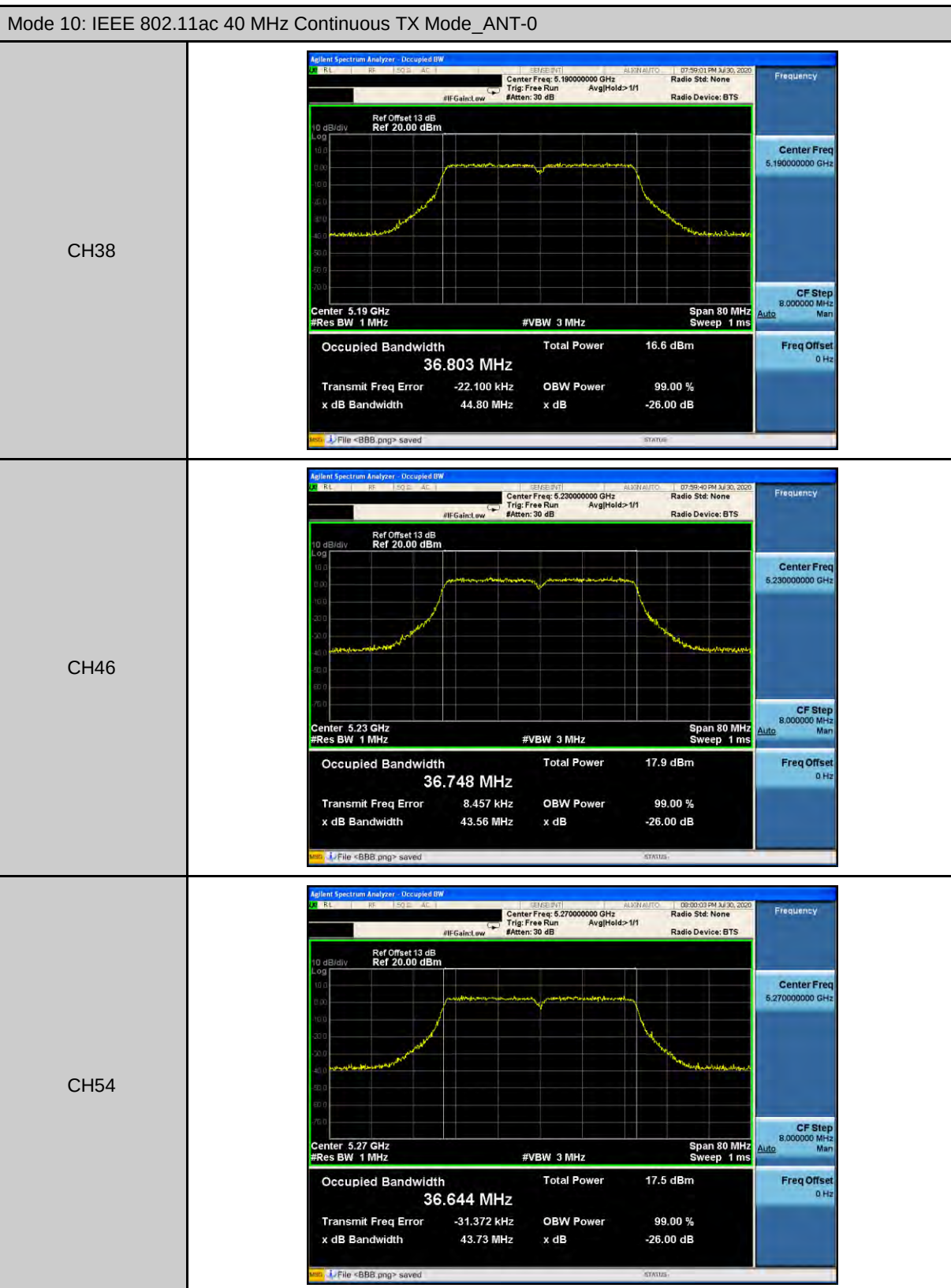


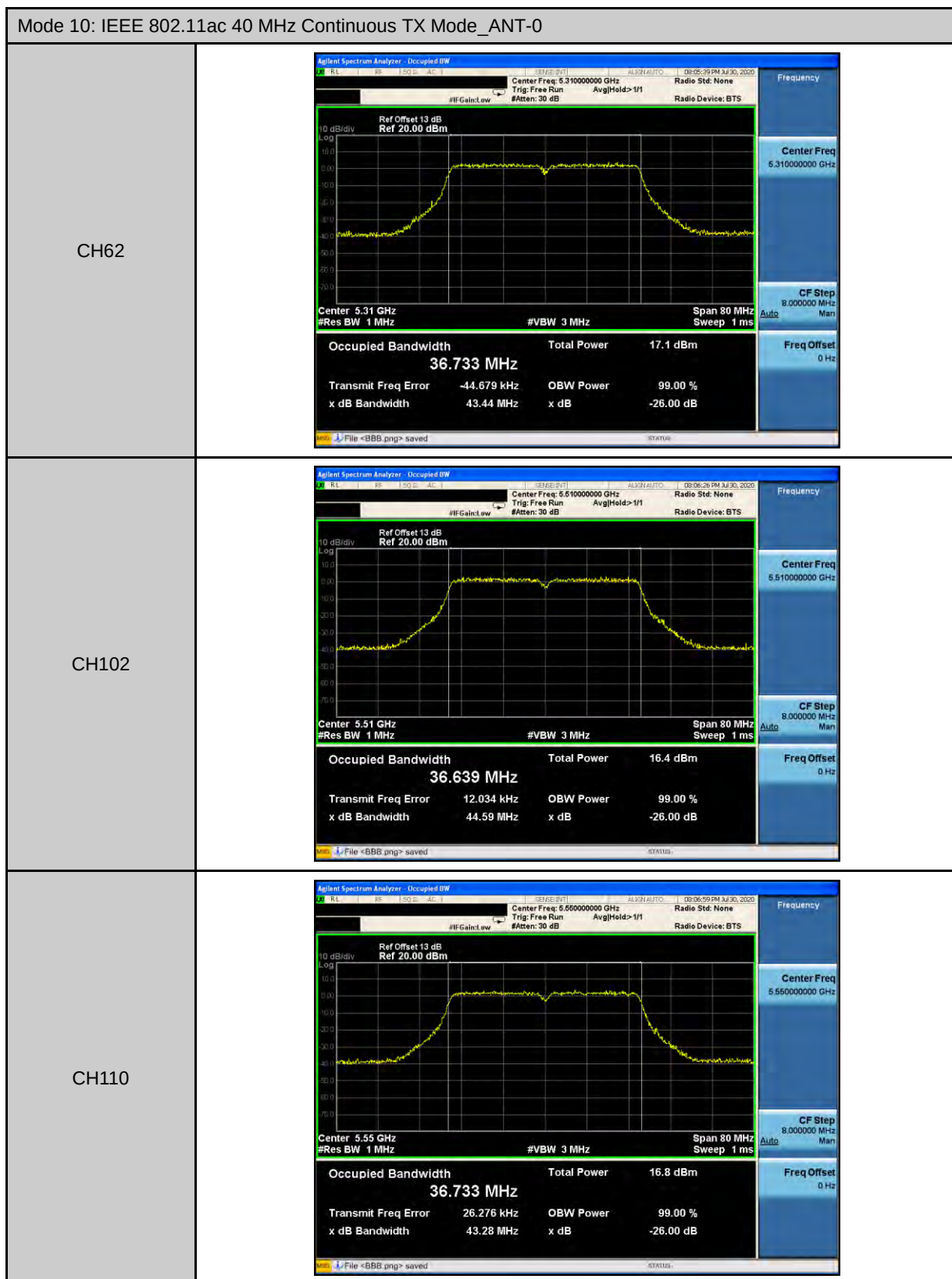
CH112

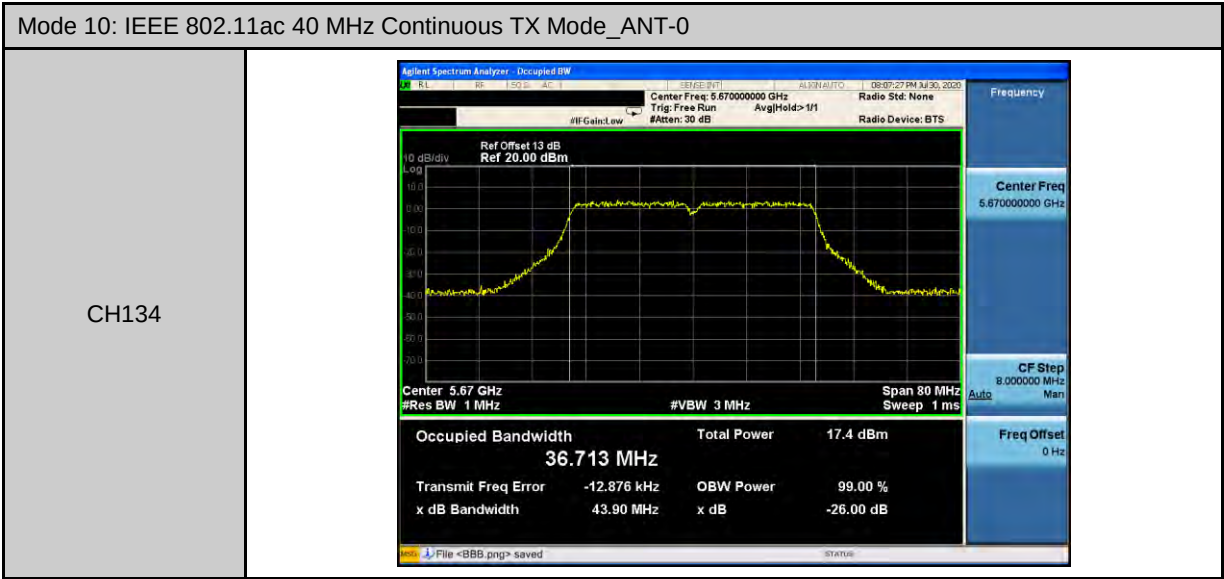


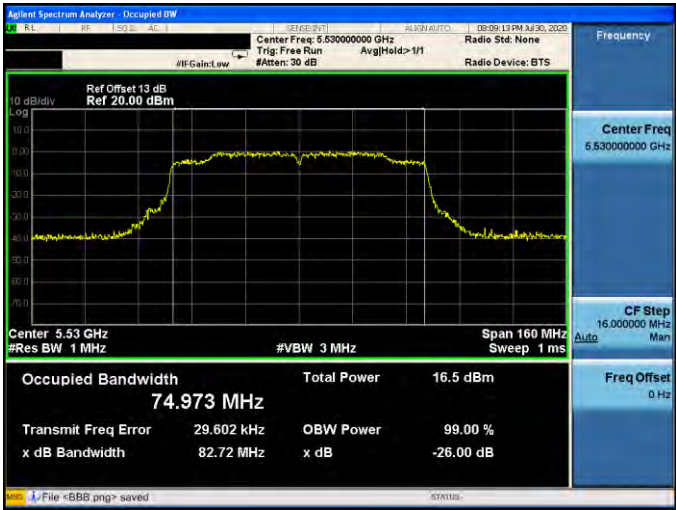
CH140





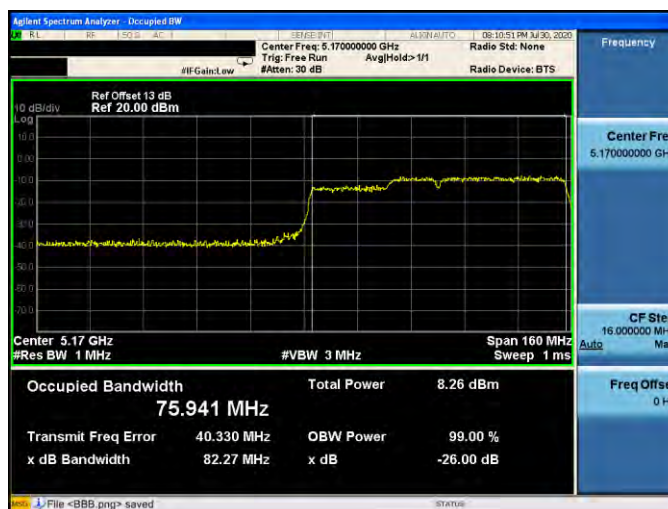




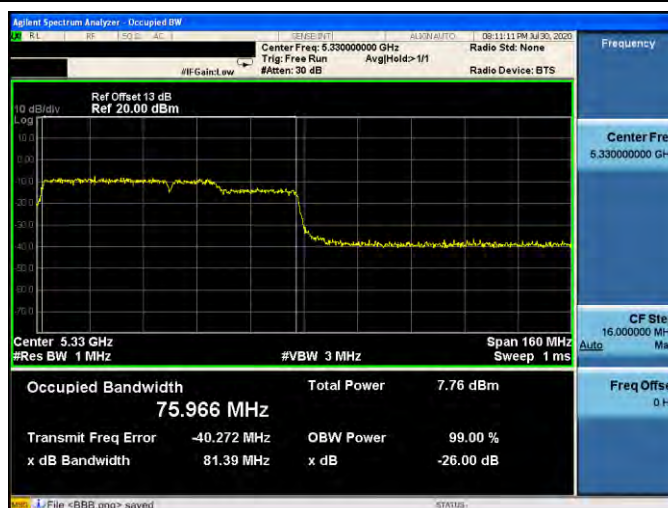
Mode 11: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-0	
CH42	
CH58	
CH106	

Mode 12: IEEE 802.11ac 160 MHz Continuous TX Mode_ANT-0

CH50



CH50

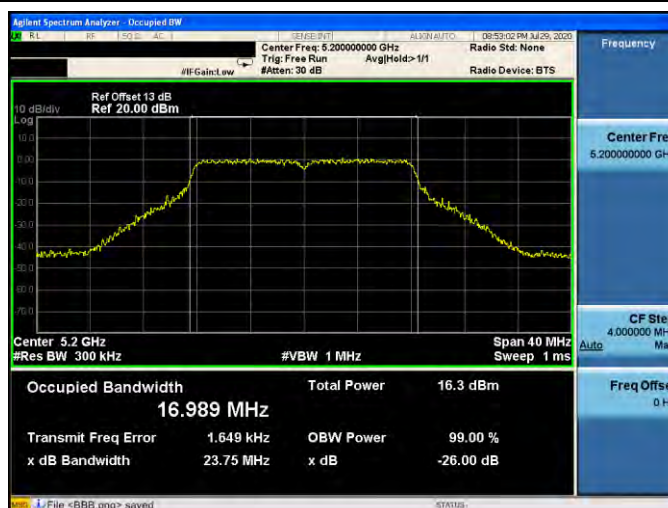


Mode 6: IEEE 802.11a Continuous TX Mode_ANT-1

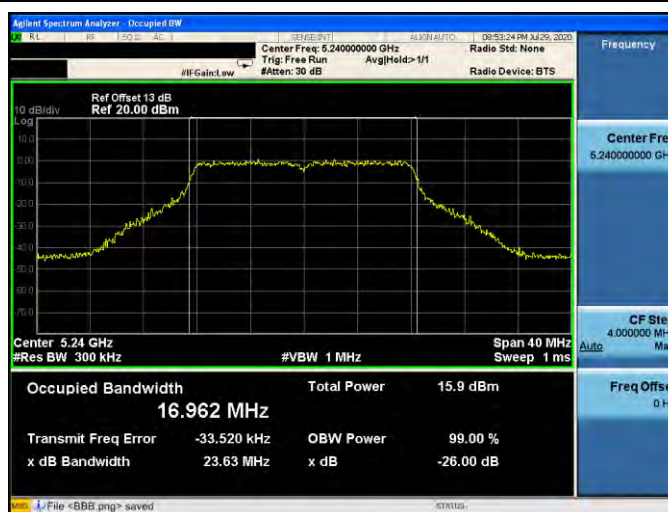
CH36

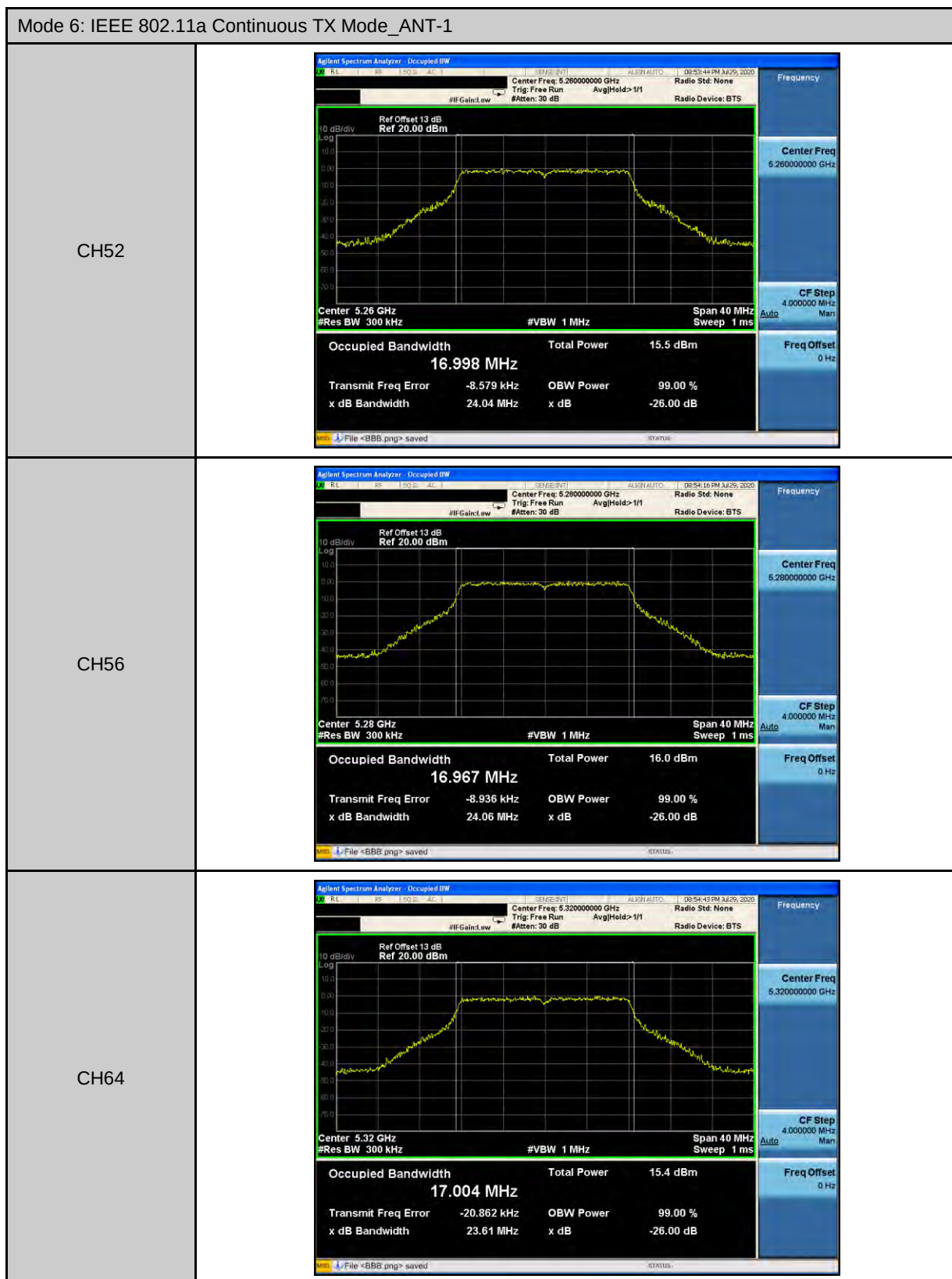


CH40



CH48



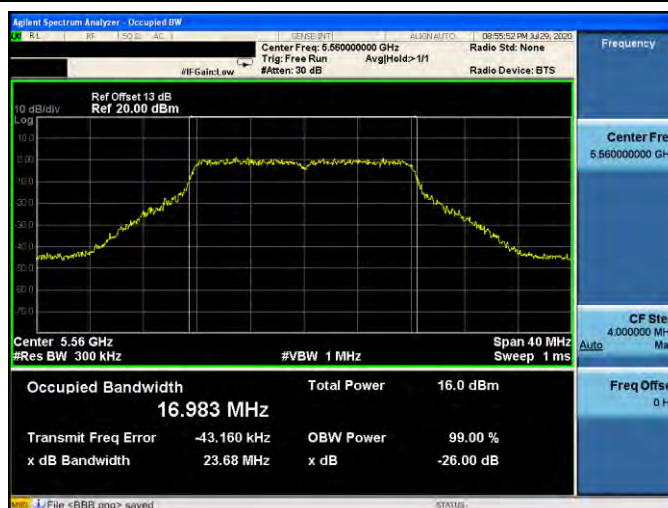


Mode 6: IEEE 802.11a Continuous TX Mode_ANT-1

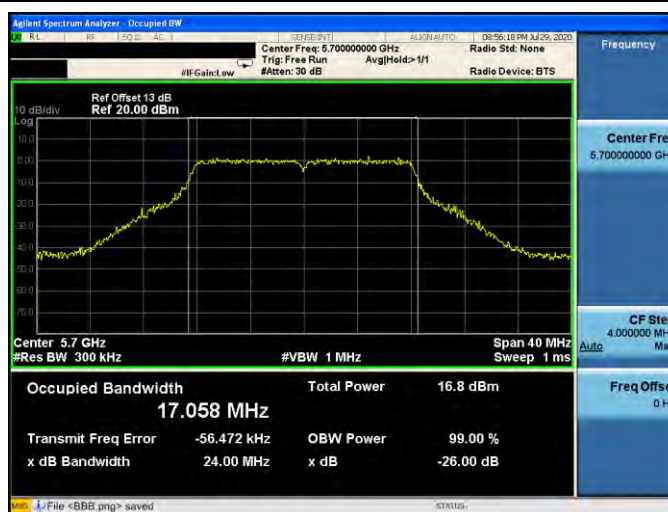
CH100



CH112



CH140



Mode 7: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-0

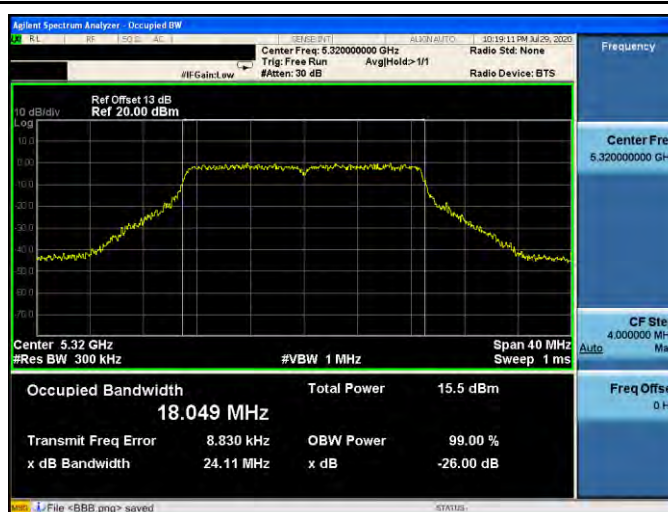
CH52



CH56



CH64



Mode 7: IEEE 802.11n 5 GHz 20 MHz Continuous TX Mode_ANT-0

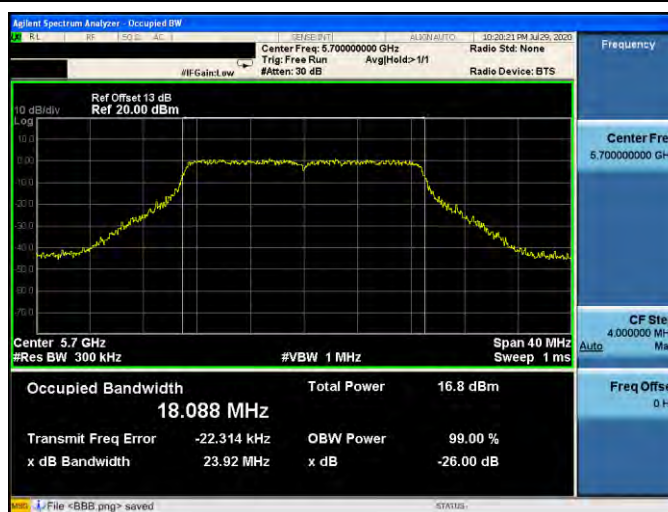
CH100



CH112

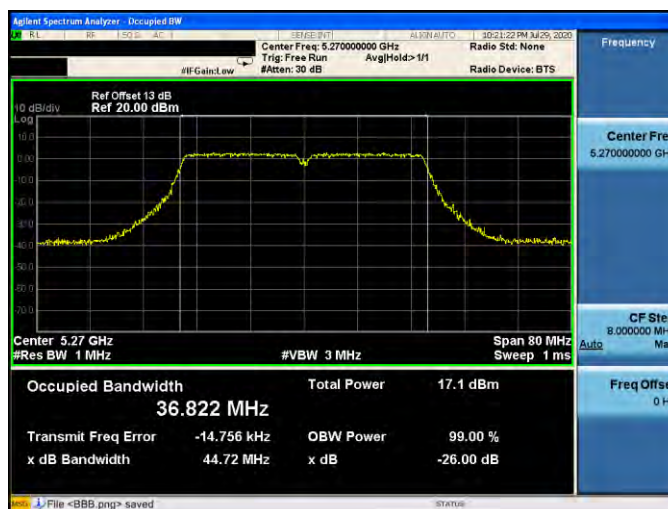


CH140

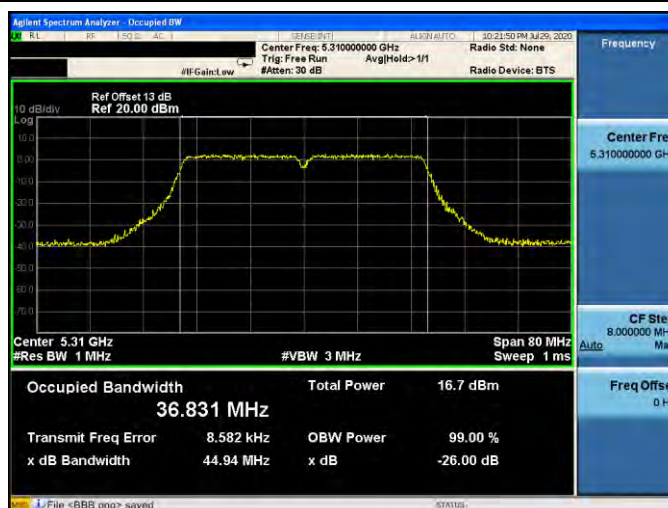


Mode 8: IEEE 802.11n 5 GHz 40 MHz Continuous TX Mode_ANT-0

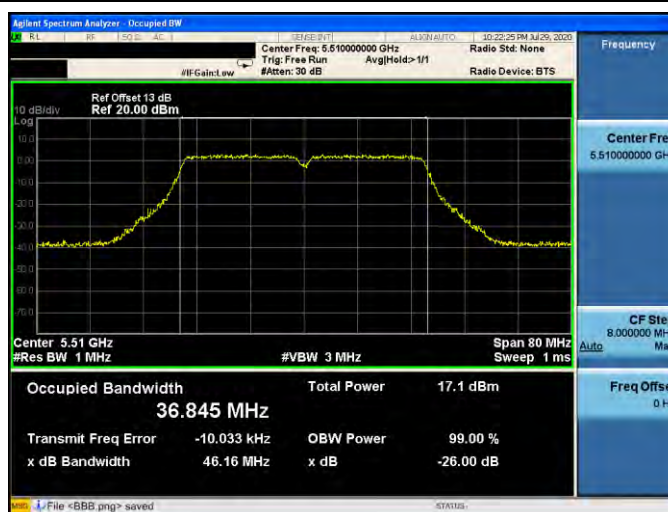
CH54



CH62



CH102





Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

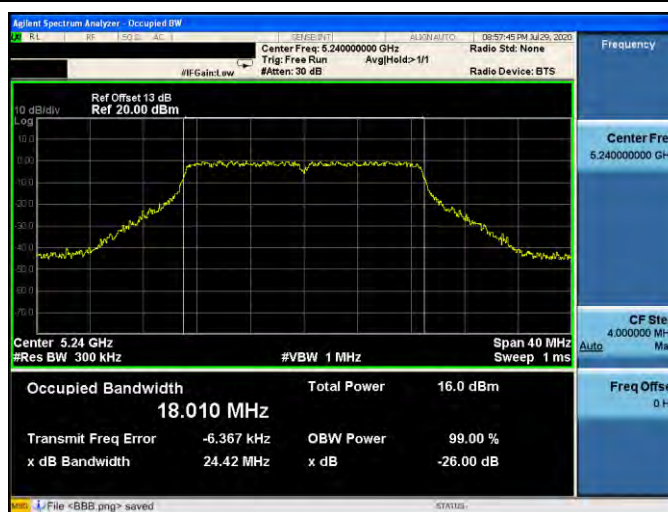
CH36



CH40



CH48



Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

CH52

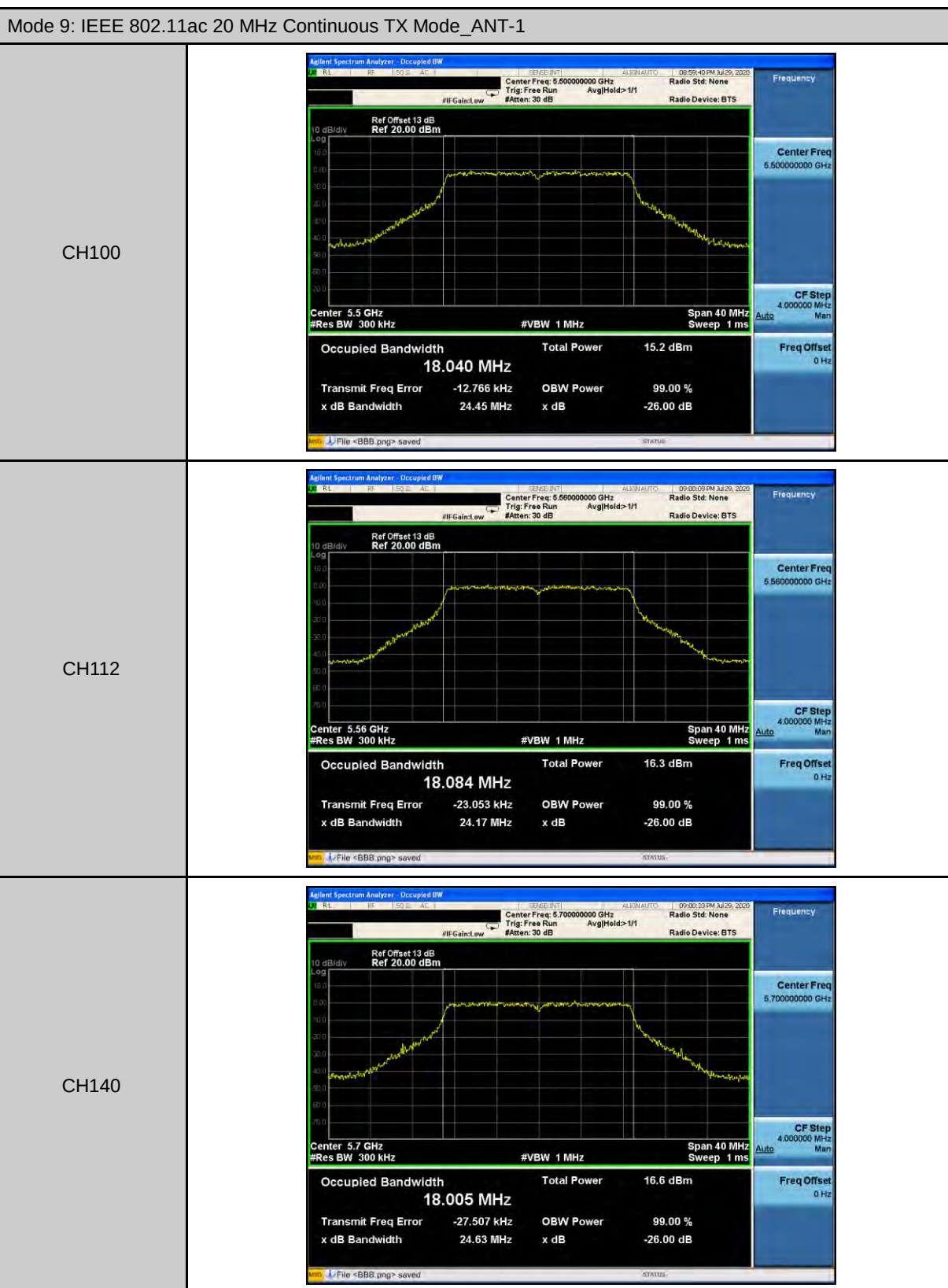


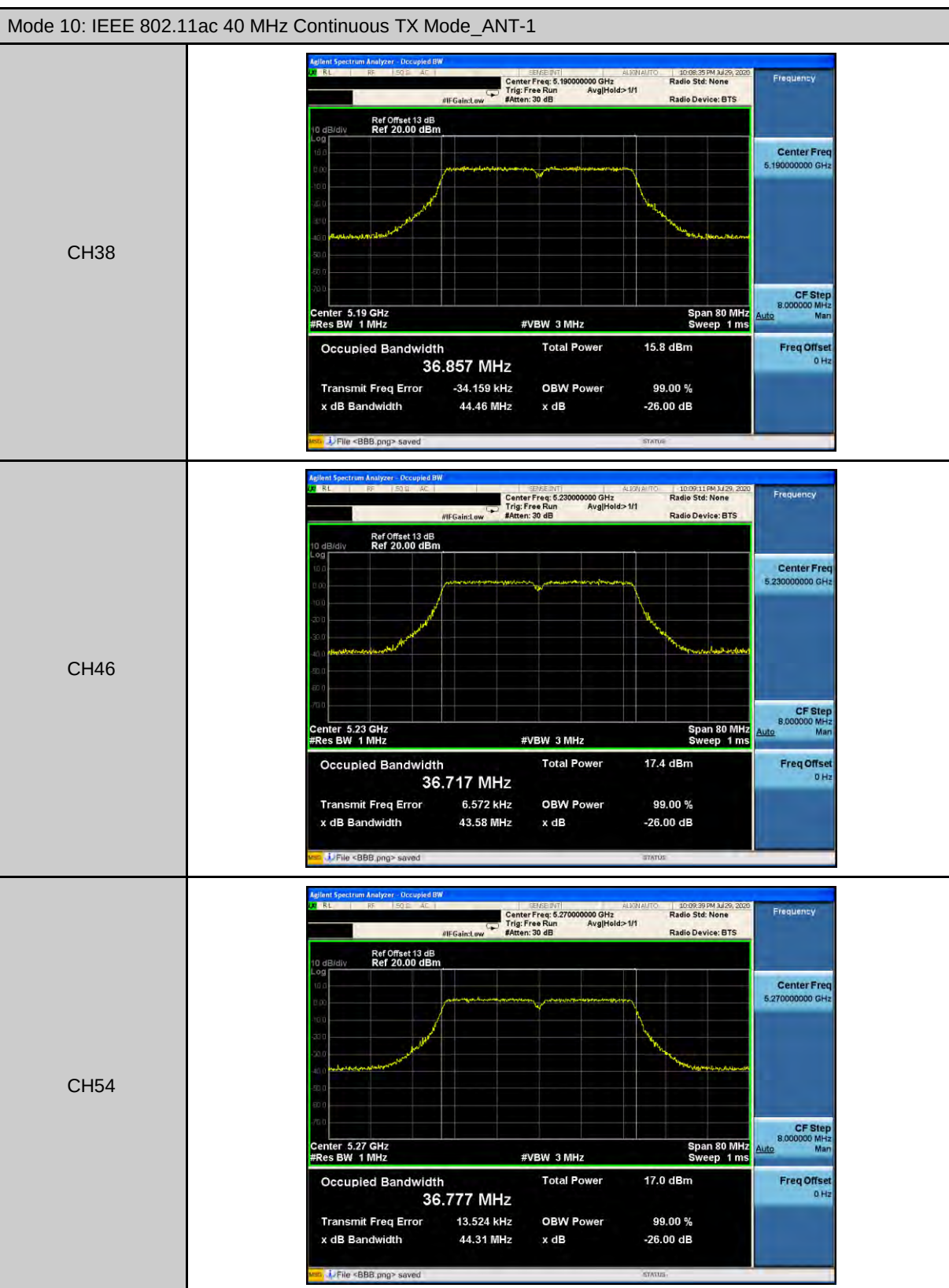
CH56

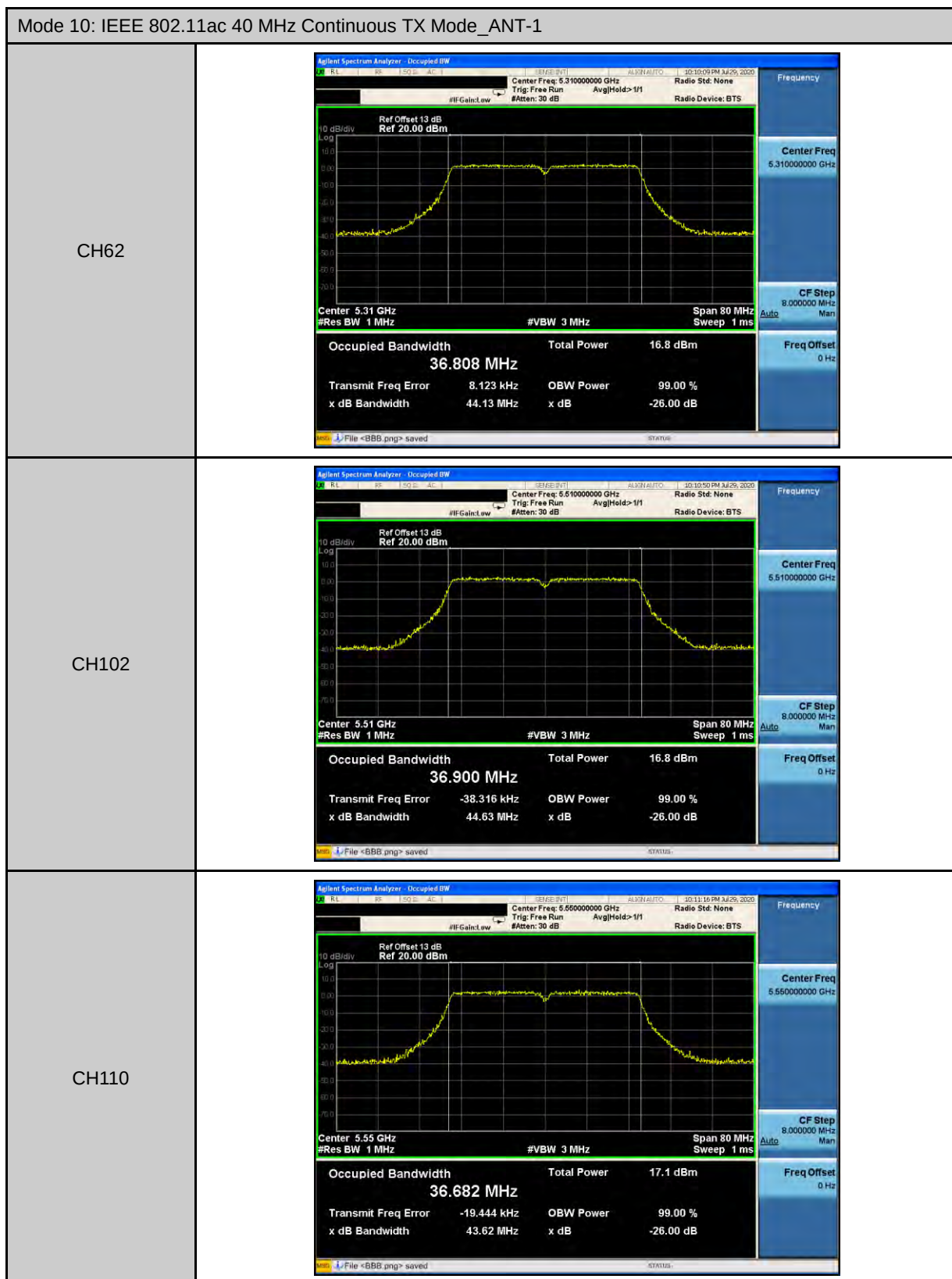


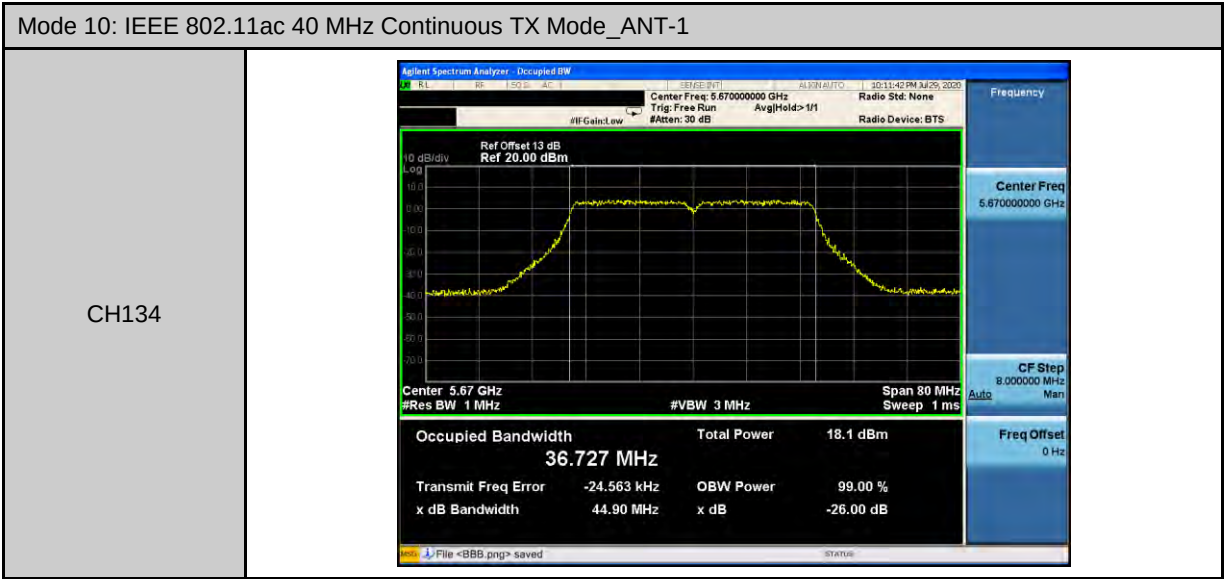
CH64

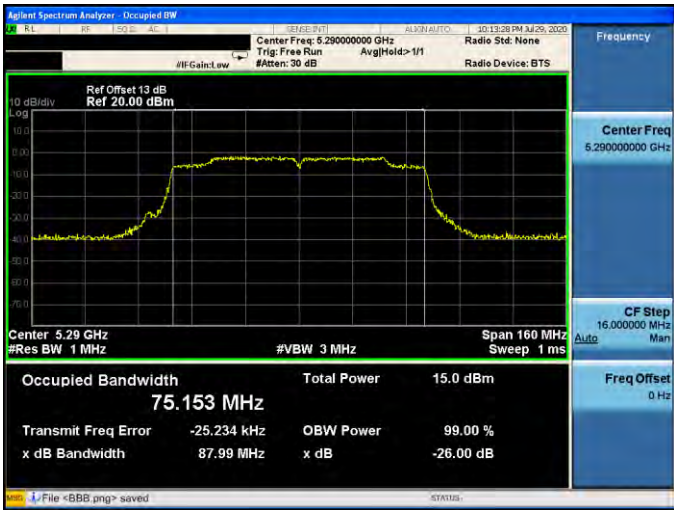






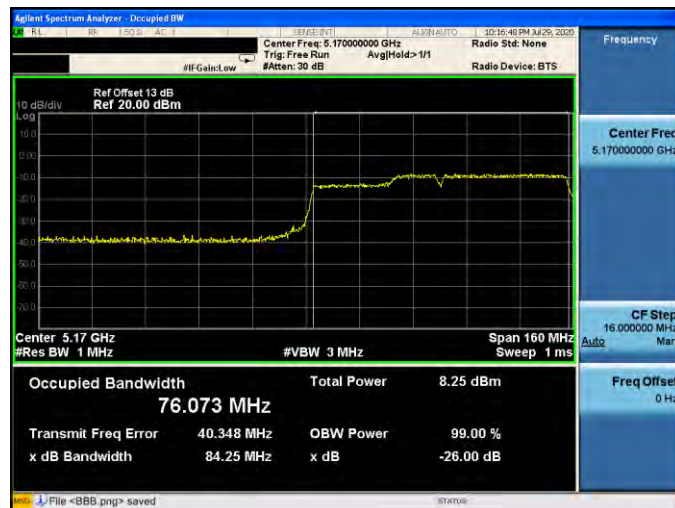




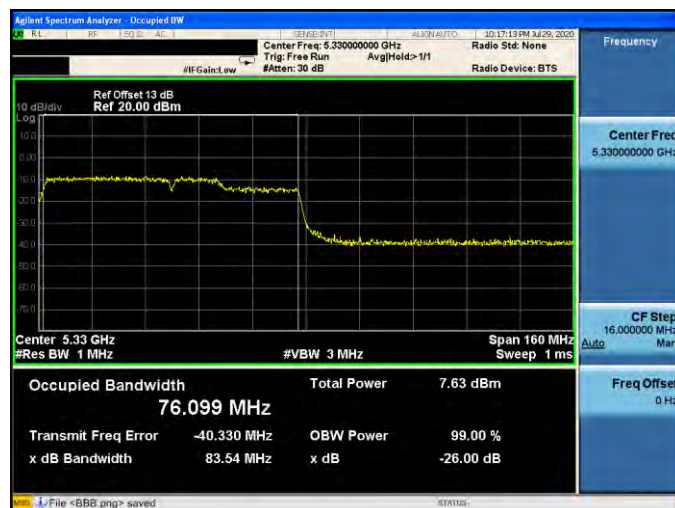
Mode 11: IEEE 802.11ac 80 MHz Continuous TX Mode_ANT-1	
CH42	
CH58	
CH106	

Mode 12: IEEE 802.11ac 160 MHz Continuous TX Mode_ANT-1

CH50



CH50

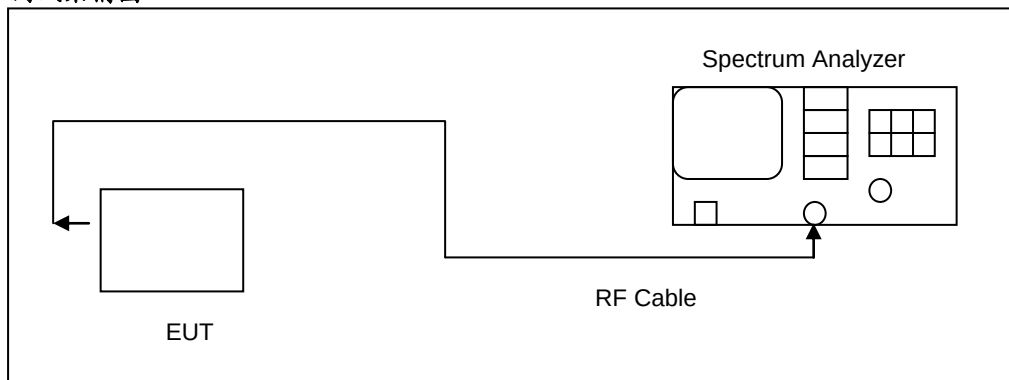


4.3.5 6 dB頻寬之要求

合格標準:

在 5.725 GHz~5.850 GHz 頻帶操作之設備，其 6 dB 頻寬至少應有 500 kHz。

測試架構圖：



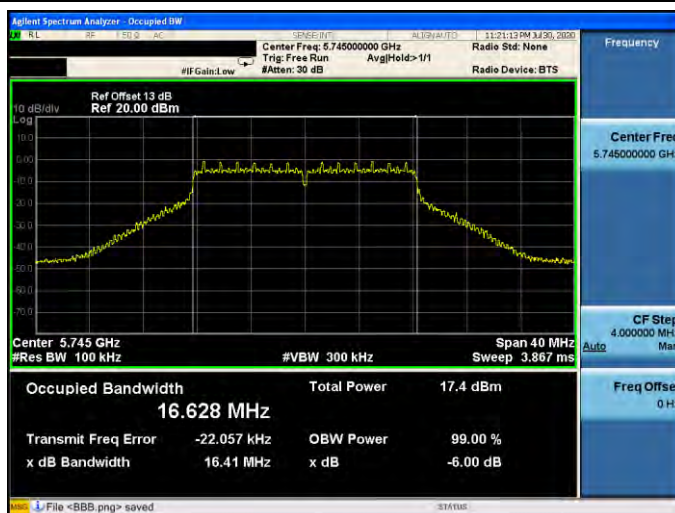
測試結果:

操作模式 : Mode 6 / Mode 9 / Mode 10 / Mode 11

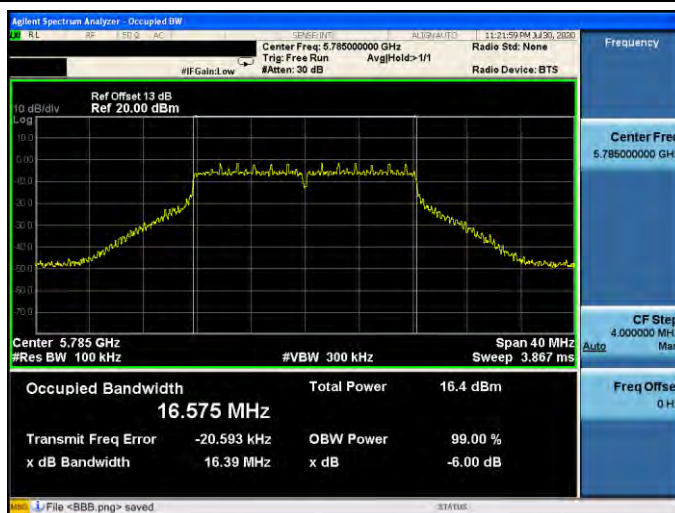
操作模式	頻道 (CH)	頻率 (MHz)	6 dB 頻寬量測值 (kHz)		限制值 (kHz)
			ANT-0	ANT-1	
Mode 6	149	5745.0	16410	16400	≥ 500
	157	5785.0	16390	16390	≥ 500
	165	5825.0	16400	16410	≥ 500
Mode 9	149	5745.0	17630	17610	≥ 500
	157	5785.0	17630	17630	≥ 500
	165	5825.0	17640	17600	≥ 500
Mode 10	151	5755.0	36430	36400	≥ 500
	159	5795.0	36390	36390	≥ 500
Mode 11	155	5775.0	75220	75290	≥ 500

Mode 6: IEEE 802.11a Continuous TX Mode_ANT-0

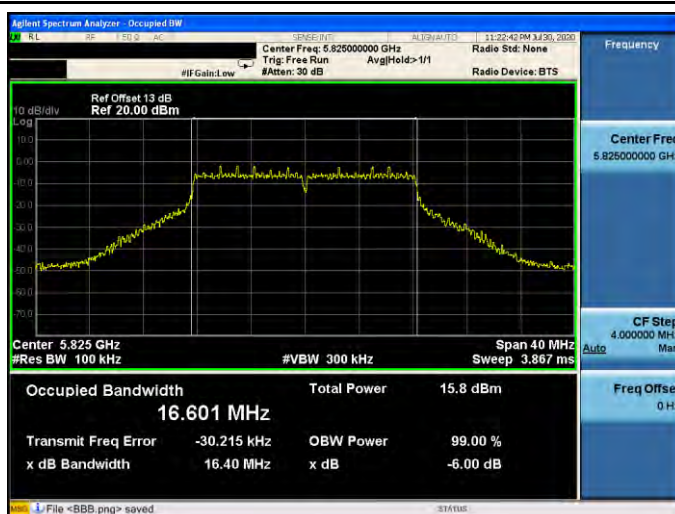
CH149



CH157

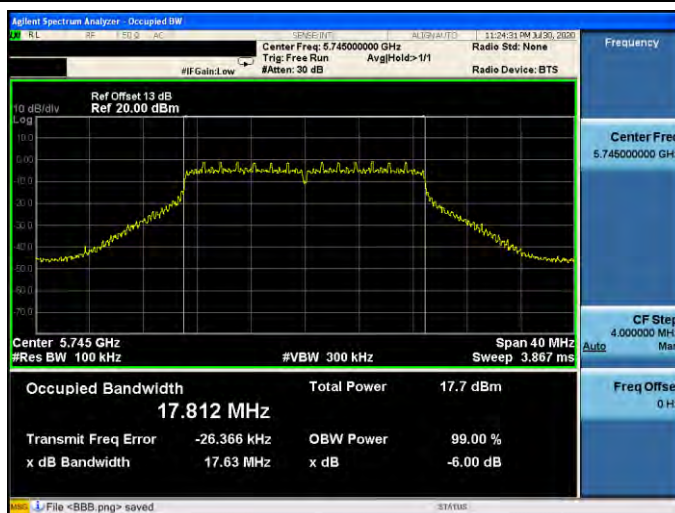


CH165

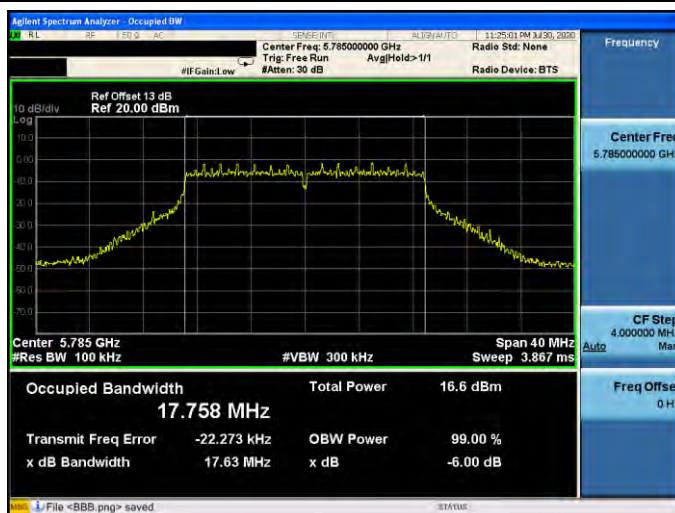


Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

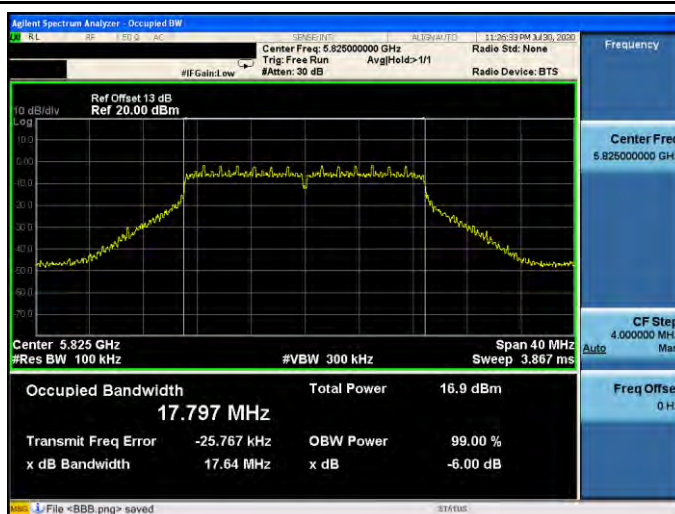
CH149



CH157

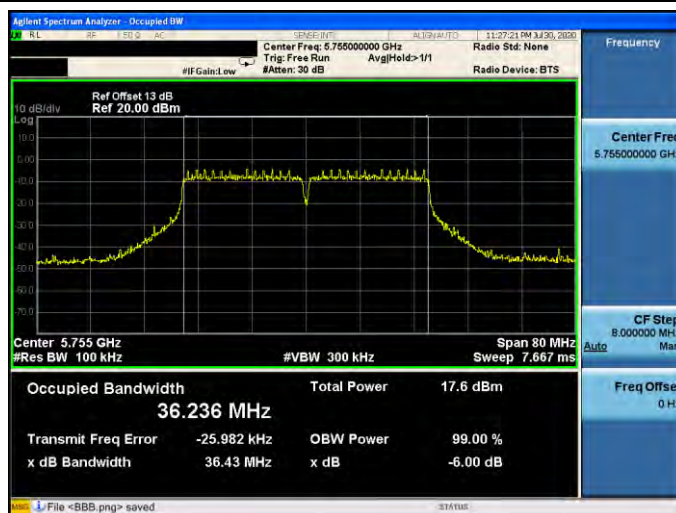


CH165

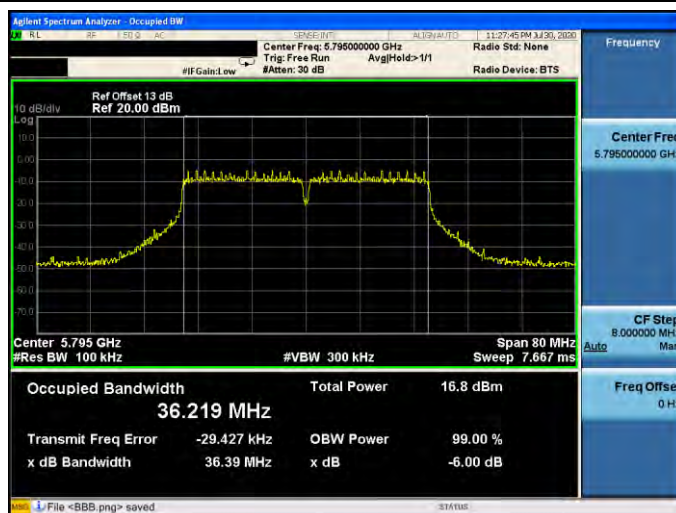


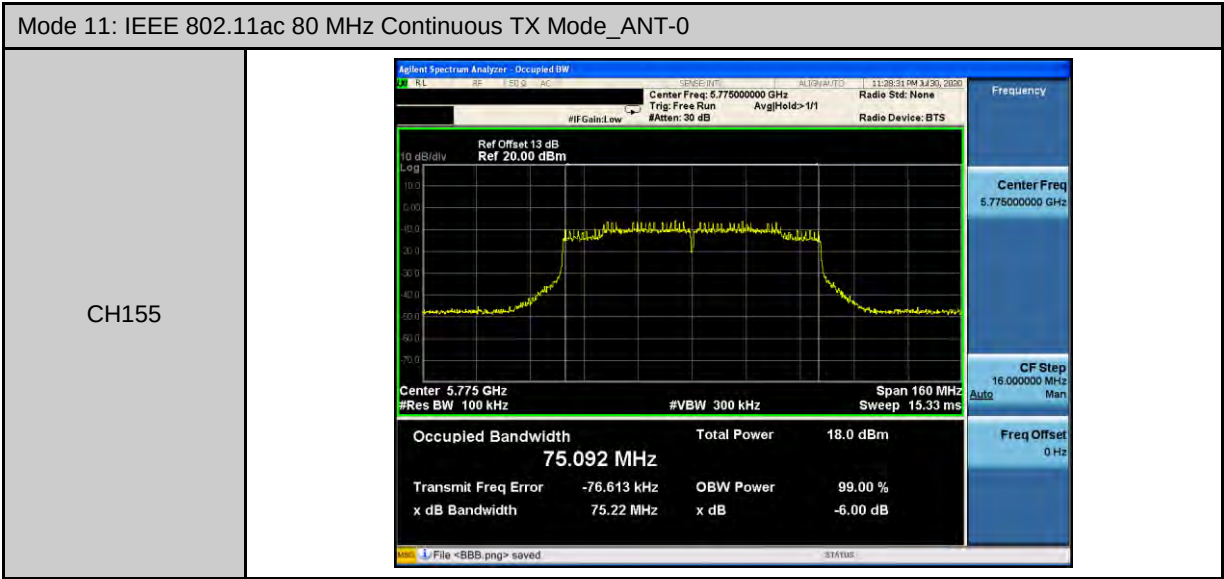
Mode 10: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0

CH151



CH159



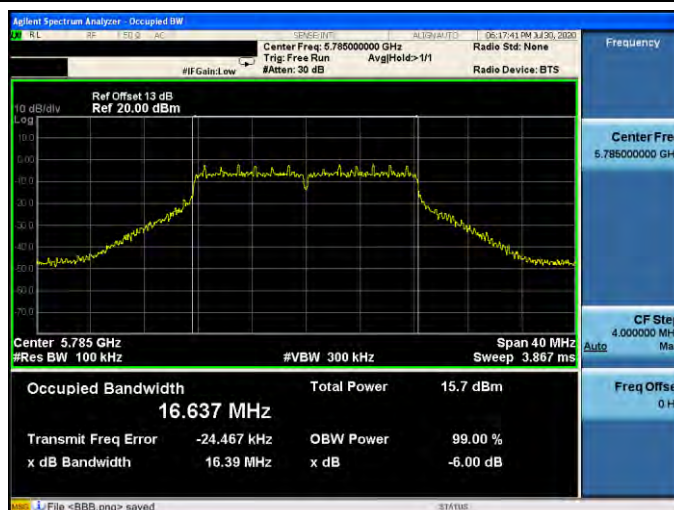


Mode 6: IEEE 802.11a Continuous TX Mode_ANT-1

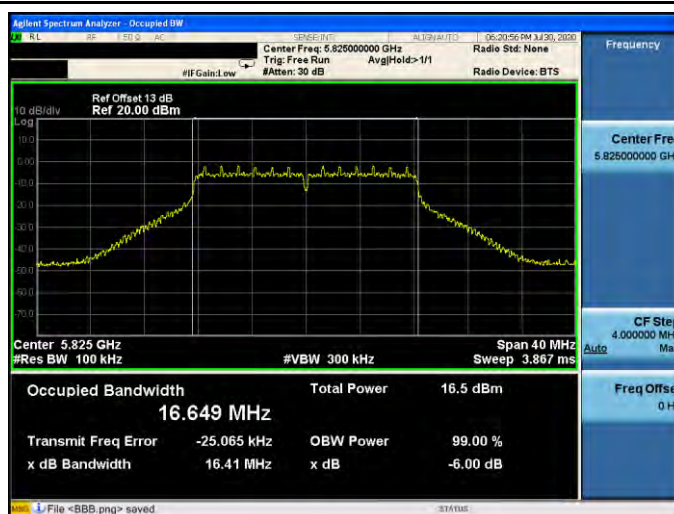
CH149



CH157

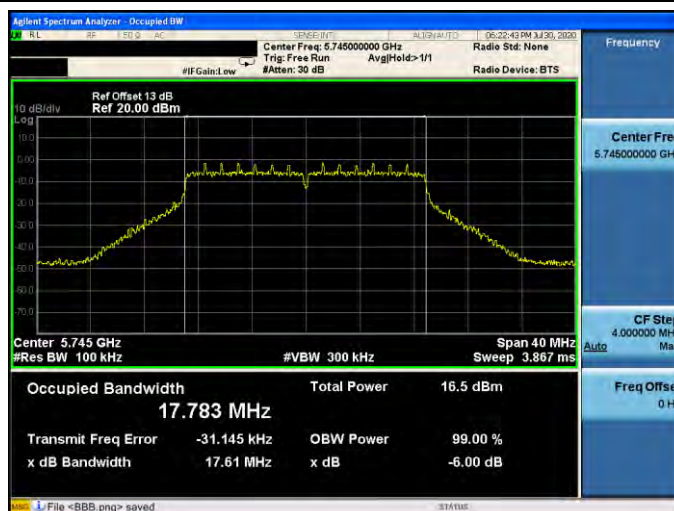


CH165

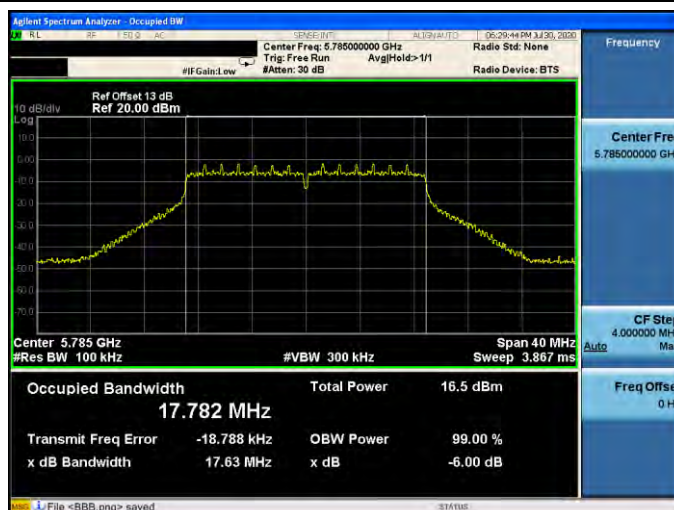


Mode 9: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

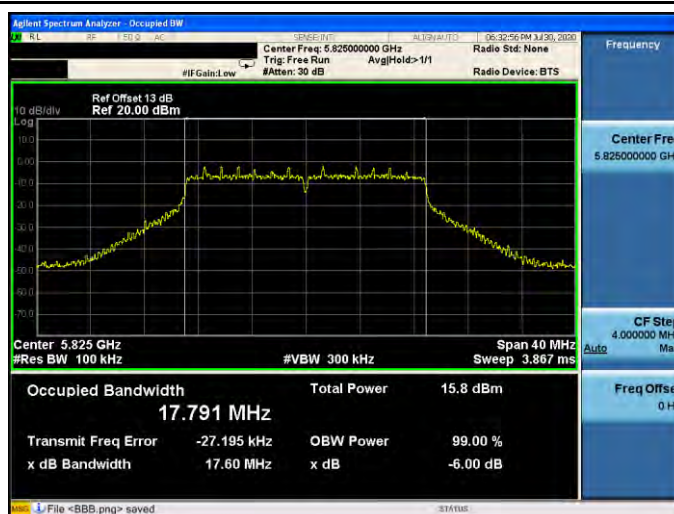
CH149



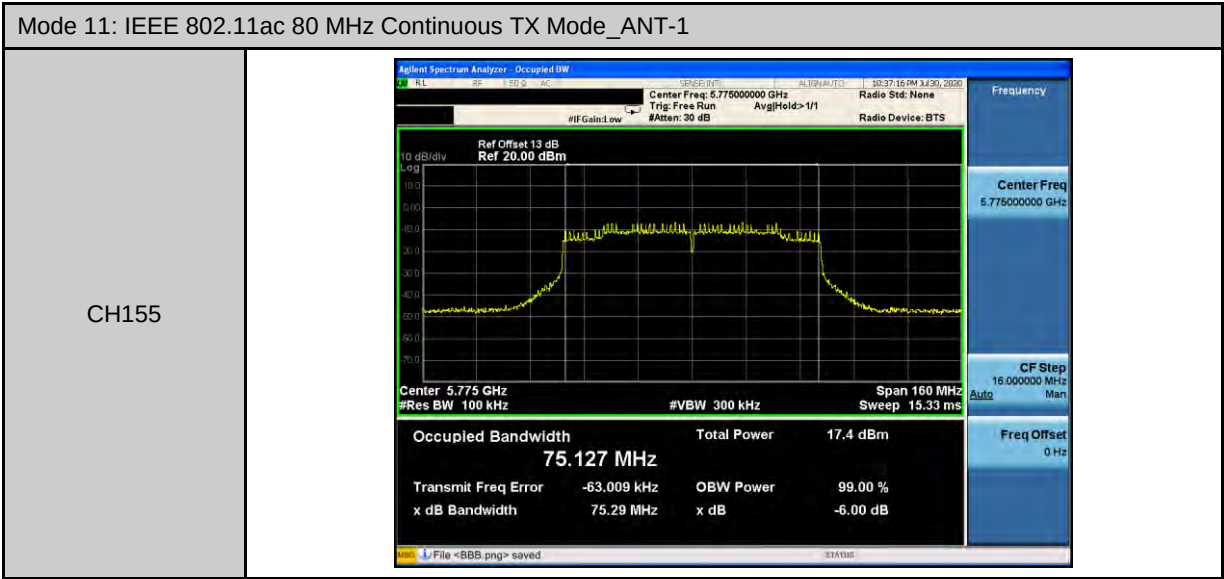
CH157



CH165



Mode 10: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-1	
CH151	
CH159	

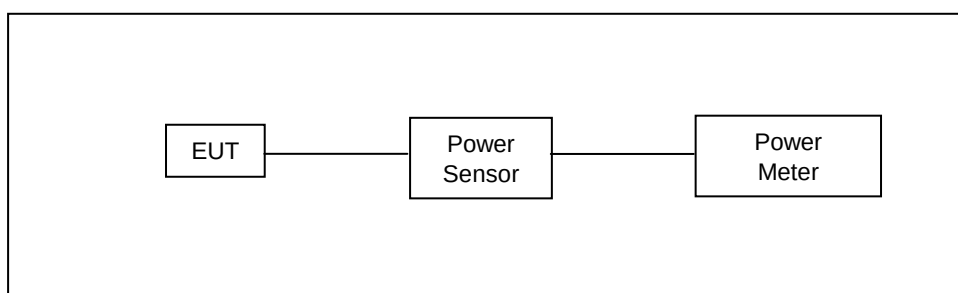


4.3.6 發射功率控制(TPC)之量測

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)4.7.7.1 節之要求, 發射功率控制(TPC)操作於 5.25 GHz~5.35 GHz 與 5.470 GHz~5.725 GHz 頻帶的設備, 應具備發射功率控制功能。設備必須至少具有 6 dB 低於平均 EIRP 值 30 dBm 的能力。EIRP 值低於 500 mW 之系統不須具備 TPC 功能。

測試架構圖：



測試結果:

操作模式	: Mode 6 / Mode 7 / Mode 8 / Mode 9 / Mode 10 / Mode 11 / Mode 12				
測試結果	Mode 6: EIRP =	64.317 mW	< 500 mW	, 故不需評估發射功率控制(TPC)。	
	Mode 7: EIRP =	62.670 mW	< 500 mW	, 故不需評估發射功率控制(TPC)。	
	Mode 8: EIRP =	60.594 mW	< 500 mW	, 故不需評估發射功率控制(TPC)。	
	Mode 9: EIRP =	64.388 mW	< 500 mW	, 故不需評估發射功率控制(TPC)。	
	Mode 10: EIRP =	64.402 mW	< 500 mW	, 故不需評估發射功率控制(TPC)。	
	Mode 11: EIRP =	50.629 mW	< 500 mW	, 故不需評估發射功率控制(TPC)。	
	Mode 12: EIRP =	7.258 mW	< 500 mW	, 故不需評估發射功率控制(TPC)。	

4.3.7 動態頻率選擇(DFS)之量測

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)4.7.7.2 節之要求, 操作於 5.25 GHz~5.35 GHz 與 5.470 GHz~5.725 GHz 頻帶之設備應具備動態頻率選擇雷達偵測功能並啟動之, 以完整偵測使用頻帶內之雷達訊號, 避免與雷達系統

同頻道操作。相關規定如下:

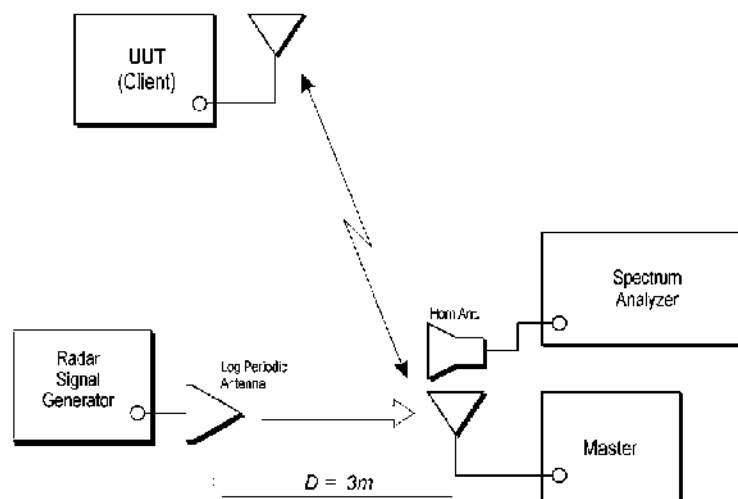
最低動態頻率選擇的偵測門檻

- 最大 EIRP 為 200 mW 至 1 W 之設備, 其最低動態頻率選擇的偵測門檻值為-64 dBm。
- 最大 EIRP 低於 200 mW, 且功率頻譜密度小於 10 dBm/MHz 之設備, 其最低動態頻率選擇的偵測門檻值為-62 dBm。
- 最大 EIRP 低於 200 mW, 且功率頻譜密度大於或等於 10 dBm/MHz 之設備, 其最低動態頻率選擇的偵測門檻值為-64dBm。
- 此偵測門檻值為 1 微秒內之平均接收功率, 並以 0 dBi 天線為參考基準。頻道初始設定得由系統隨機選取或使用

操作模式: 動態頻率選擇之規定適用於以下之操作模式:

- 頻道可用性檢查時間之規定, 適用於主控運作模式。
- 頻道移動時間之規定, 適用於主控及受控運作模式。

測試架構圖:



測試結果:

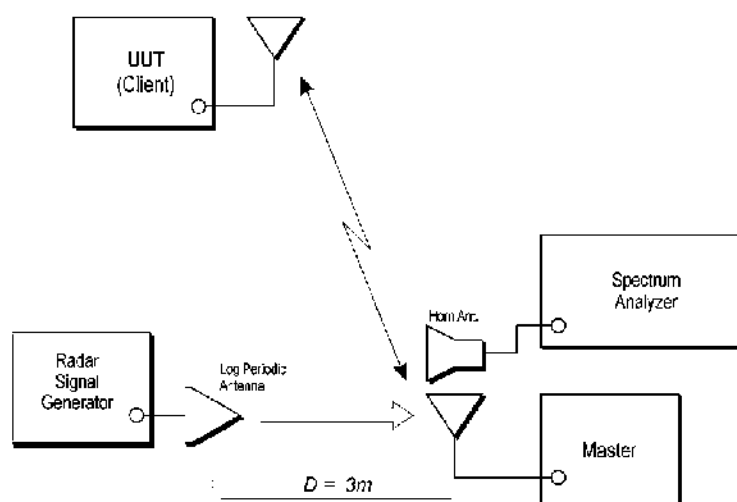
操作模式	: Mode 12
測試結果	: 不適用, 此產品為受控裝置, 因此不須評估動態頻率選擇(DFS)

4.3.8 頻道可用性檢查時間之量測

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)之 4.7.7.2(3)節之要求, 設備必須檢查其可在某一頻道上起始傳送之前是否有雷達系統已經操作在該頻道上, 以及何時其必須移動到另一新的頻道, 在 60 秒內若沒有偵測到功率位準大過上述之干擾門檻值的雷達信號時, 設備才可開始使用該頻道。

測試架構圖:



測試結果:

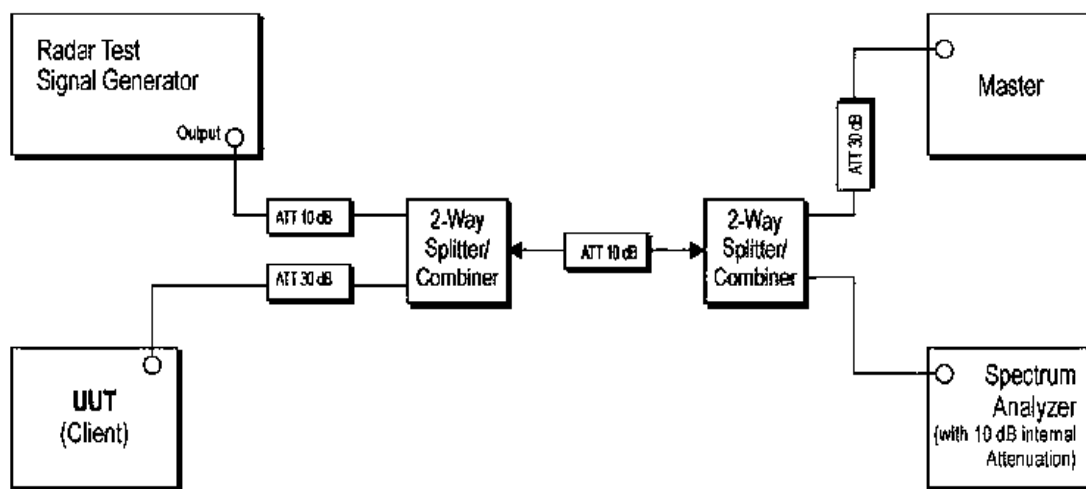
操作模式	: Mode 12
測試結果	: 不適用; 此產品為受控裝置, 因此不須評估頻道可用性檢查時間

4.3.9 頻道移動時間之量測

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)之 4.7.7.2(4)節節之要求，在偵測到雷達的存在後，所有在該操作頻道上的所有傳輸須在 10 秒內停止，在偵測到雷達信號後，該期間內的傳輸應維持最多 200 毫秒的正常通訊。另外，間歇性的管理與控制信號可在剩餘的時間中傳送，以便撤離該操作頻道。

測試架構圖：



Product		Manufacturer	Model No.	ID
1	ASUS Access Point	ASUS	RT-AX88U	FCC : MSQ-RTAXHP00

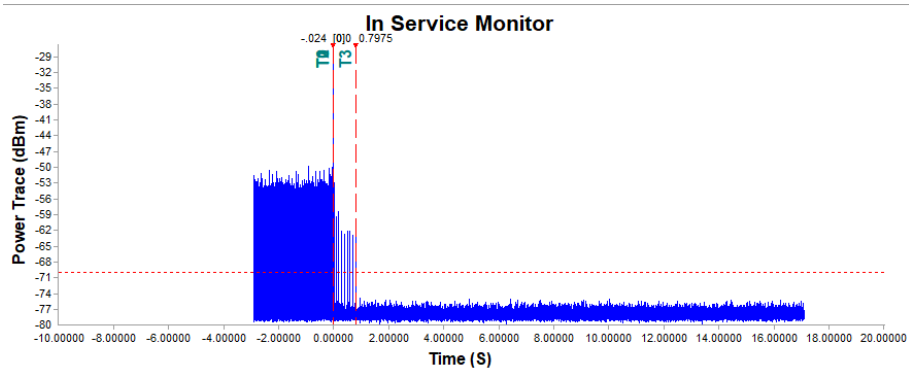
測試結果:

操作模式 : Mode 12

Frequency (MHz)	Radar Type	Channel Move Time (sec)	Limit (sec)
5250	Type 0	0.7975	10

Frequency (MHz)	Radar Type	Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
5250	Type 0	8.4998	200

Mode 12: IEEE 802.11ac 160 MHz Continuous TX Mode

Channel Move Time
/
Channel Closing
Transmission Time

Time Index Info

T0 : -0.0240 S
T1 : 0.0000 S
T2 : 0.0000 S
T3 : 0.7975 S

Time Per Bin: 0.4999875 ms
T2~T3 Bins Over Threshold:
= 17 Bins

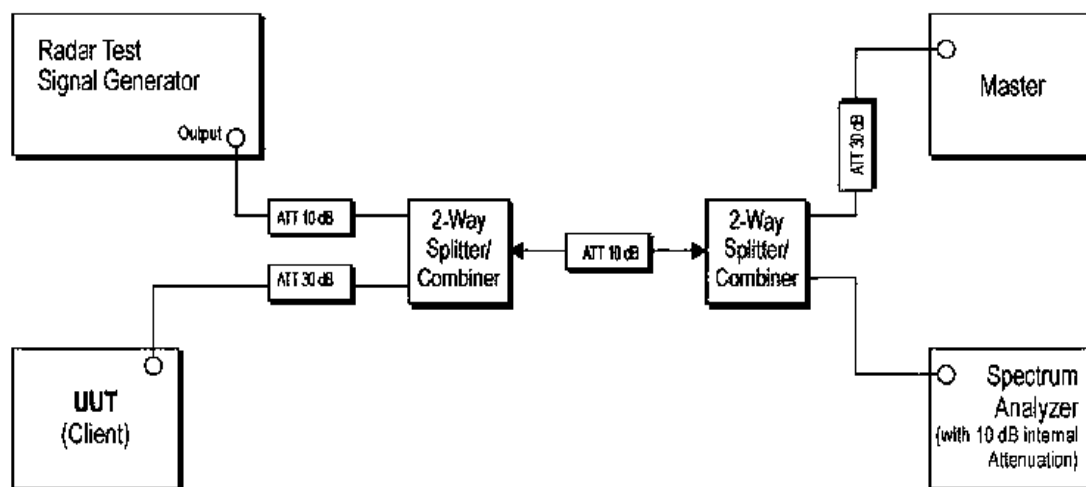
Channel Move Time: 0.7974801 S
Channel Close Time: 0.0084998 S

4.3.10 不可佔用時間之量測

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)之 4.7.7.2(5)節節之要求，某一頻道已被頻道可用性檢查或”服務中”監視顯示含有雷達系統，至少須有 30 分鐘的不可佔用期間。不可佔用期間起始於偵測到雷達系統的當時。

測試架構圖：



測試結果:

操作模式	: Mode 12
測試結果	: 不適用，此產品為受控裝置，因此不須評估不可佔用時間

4.3.11 天線規格之要求

合格標準:

據 NCC 低功率射頻電機技術規範(LP0002)之 4.7.8 節之要求，天線之規格不受第 2.2 節規定之限制

判定結果: 符合。

4.3.12 電波暴露量之評估

合格標準:

若受測物於正常操作模式下，其發射機距離人體 20 公分以上者，可測試最大暴露允許值(Maximum Permissible Exposure, MPE)以證明其符合電波暴露量之要求。限制值如下：

5.20.2.1 職業性/可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3~3.0	614	1.63	*100	6
3~30	1842/f	4.89/f	*900/f ²	6
30~300	61.4	0.163	1.0	6
300~1,500	-----	-----	f/300	6
1,500~100,000	-----	-----	5.0	6

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：MHz。

5.20.2.2 一般人/不可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3~1.34	614	1.63	*100	30
1.34~30	824/f	2.19/f	*180/f ²	30
30~300	27.5	0.073	0.2	30
300~1,500	-----	-----	f/1500	30
1,500~100,000	-----	-----	1.0	30

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：MHz。

判定結果:

Band	Frequency (MHz)	Limit (mW/cm ²)	Distance [R] (cm)	Power [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G] (dBi)	Duty Cycle	Power Density [S] (mW/cm ²)
WLAN 2.4 GHz	2412-2462	1	20	17.53	3.51	2.24	1	0.0252
WLAN 5 GHz	5180-5825	1	20	12.87	5.51	3.56	1	0.0137
BT	2402-2480	1	20	9.22	3.51	2.24	1	0.0037

Simultaneous MPE = BT MPE + WLAN 2.4 GHz MPE + WLAN 5 GHz MPE = 0.0426

---END---