

FCC Appendix RF Test Data for 5GWIFI

FCC ID : 2BQZB-G1618-05

Company : Shenzhen GPD Technology Co., Ltd.

EUT : Handheld PC gaming console

Model Number : G1618-05

Report No. : CTA25091900503

Reviewed By : Eric Wang

Appendix RF Test Data for 5GWIFI ANT1

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.680	5168.920	5191.600	---	---
		5220	22.440	5208.520	5230.960	---	---
		5240	22.280	5228.920	5251.200	---	---
		5745	22.880	5733.720	5756.600	---	---
		5785	22.800	5773.680	5796.480	---	---
		5825	22.640	5813.960	5836.600	---	---
11N20SISO	Ant1	5180	22.520	5168.840	5191.360	---	---
		5220	23.040	5208.360	5231.400	---	---
		5240	23.760	5228.400	5252.160	---	---
		5745	22.880	5733.520	5756.400	---	---
		5785	22.680	5773.640	5796.320	---	---
		5825	22.240	5814.080	5836.320	---	---
11N40SISO	Ant1	5190	42.960	5168.640	5211.600	---	---
		5230	41.360	5209.360	5250.720	---	---
		5755	43.120	5733.400	5776.520	---	---
		5795	42.160	5774.280	5816.440	---	---
11AC20SISO	Ant1	5180	23.000	5168.640	5191.640	---	---
		5220	23.360	5208.920	5232.280	---	---
		5240	22.440	5229.040	5251.480	---	---
		5745	22.320	5733.920	5756.240	---	---
		5785	23.680	5773.360	5797.040	---	---
		5825	22.600	5813.760	5836.360	---	---
11AC40SISO	Ant1	5190	42.720	5168.800	5211.520	---	---
		5230	42.240	5208.880	5251.120	---	---
		5755	42.480	5733.880	5776.360	---	---
		5795	42.080	5774.200	5816.280	---	---
11AC80SISO	Ant1	5210	84.000	5168.400	5252.400	---	---
		5775	84.480	5732.920	5817.400	---	---
11AX20SISO	Ant1	5180	23.160	5168.640	5191.800	---	---
		5220	23.600	5207.920	5231.520	---	---
		5240	23.640	5228.480	5252.120	---	---
		5745	23.000	5733.480	5756.480	---	---
		5785	23.400	5773.360	5796.760	---	---
		5825	23.800	5812.760	5836.560	---	---
11AX40SISO	Ant1	5190	41.760	5169.120	5210.880	---	---

		5230	41.920	5209.040	5250.960	---	---
		5755	42.080	5733.560	5775.640	---	---
		5795	41.680	5773.720	5815.400	---	---
11AX80SISO	Ant1	5210	82.400	5168.720	5251.120	---	---
		5775	82.720	5733.880	5816.600	---	---

11A_Ant1_5180

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.180000000 GHz

Ref Offset 0.4 dB
Ref 20.00 dBm

ΔMkr3 22.68 MHz
0.467 dB

Center 5.180000 GHz
#Res BW 220 kHz
#VBW 680 kHz
Sweep 1.000 ms (1001 pts)

MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.188 92 GHz	-33.409 dBm			
2	N	1	f	5.192 52 GHz	-3.807 dBm			
3	Δ1	1	f (Δ)	22.68 MHz (Δ)	0.467 dB			

Frequency

Auto Tune

Center Freq
5.180000000 GHz

Start Freq
5.160000000 GHz

Stop Freq
5.200000000 GHz

CF Step
4.000000 MHz

Freq Offset
0 Hz

11A_Ant1_5220

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.220000000 GHz

Ref Offset 0.4 dB
Ref 20.00 dBm

ΔMkr3 22.44 MHz
0.224 dB

Center 5.220000 GHz
#Res BW 220 kHz
#VBW 680 kHz
Sweep 1.000 ms (1001 pts)

MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.208 52 GHz	-30.259 dBm			
2	N	1	f	5.223 76 GHz	-3.761 dBm			
3	Δ1	1	f (Δ)	22.44 MHz (Δ)	0.224 dB			

Frequency

Auto Tune

Center Freq
5.220000000 GHz

Start Freq
5.200000000 GHz

Stop Freq
5.240000000 GHz

CF Step
4.000000 MHz

Freq Offset
0 Hz

11A_Ant1_5240



11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5220



11AX20SISO_Ant1_5240



11AX20SISO_Ant1_5745



11AX20SISO_Ant1_5785



11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



11AX80SISO_Ant1_5210



11AX80SISO_Ant1_5775



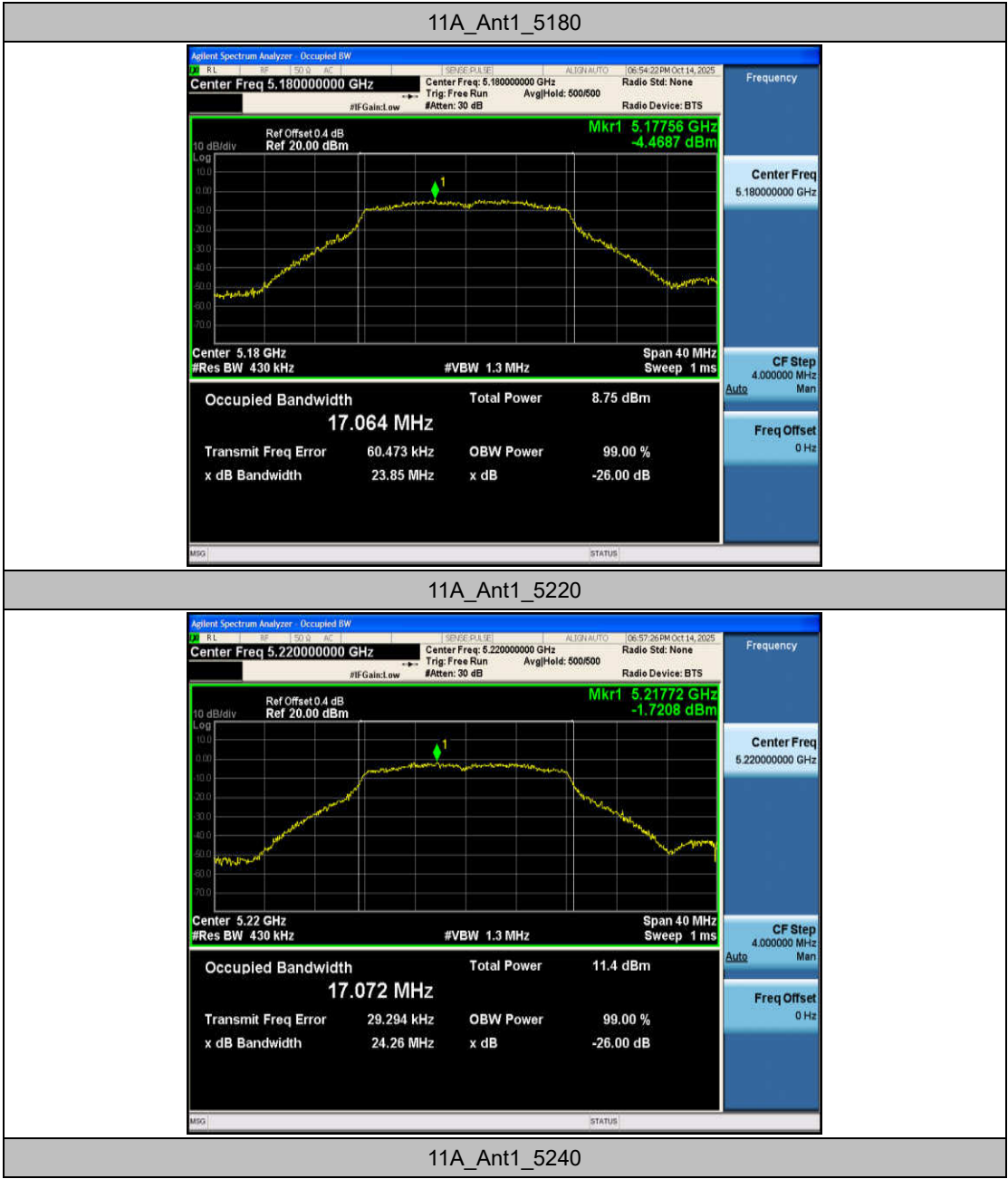
Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.064	5171.5285	5188.5925	---	---
		5220	17.072	5211.4933	5228.5653	---	---
		5240	17.122	5231.4744	5248.5964	---	---
		5745	17.095	5736.4910	5753.5860	---	---
		5785	17.139	5776.4787	5793.6177	---	---
		5825	17.102	5816.5073	5833.6093	---	---
11N20SISO	Ant1	5180	18.054	5171.0059	5189.0599	---	---
		5220	18.072	5210.9947	5229.0667	---	---
		5240	18.090	5230.9800	5249.0700	---	---
		5745	18.080	5735.9538	5754.0338	---	---
		5785	18.108	5775.9562	5794.0642	---	---
		5825	18.159	5815.9707	5834.1297	---	---
11N40SISO	Ant1	5190	36.204	5171.9755	5208.1795	---	---
		5230	36.165	5212.0000	5248.1650	---	---
		5755	36.193	5736.9517	5773.1447	---	---
		5795	36.159	5776.9575	5813.1165	---	---
11AC20SISO	Ant1	5180	18.059	5171.0141	5189.0731	---	---
		5220	18.122	5210.9563	5229.0783	---	---
		5240	18.099	5230.9964	5249.0954	---	---
		5745	18.061	5735.9813	5754.0423	---	---
		5785	18.047	5776.0082	5794.0552	---	---
		5825	18.095	5816.0133	5834.1083	---	---
11AC40SISO	Ant1	5190	36.163	5171.9794	5208.1424	---	---
		5230	36.158	5211.9835	5248.1415	---	---
		5755	36.164	5736.9437	5773.1077	---	---
		5795	36.094	5777.0116	5813.1056	---	---
11AC80SISO	Ant1	5210	75.163	5172.6026	5247.7656	---	---
		5775	75.386	5737.4501	5812.8361	---	---
11AX20SISO	Ant1	5180	19.020	5170.5170	5189.5370	---	---
		5220	19.026	5210.5225	5229.5485	---	---
		5240	19.015	5230.5139	5249.5289	---	---
		5745	19.048	5735.4839	5754.5319	---	---
		5785	19.051	5775.4964	5794.5474	---	---
		5825	18.993	5815.5438	5834.5368	---	---
11AX40SISO	Ant1	5190	37.681	5171.2118	5208.8928	---	---
		5230	37.670	5211.2485	5248.9185	---	---
		5755	37.679	5736.2359	5773.9149	---	---

		5795	37.633	5776.2370	5813.8700	---	---
11AX80SISO	Ant1	5210	76.768	5171.7616	5248.5296	---	---
		5775	76.855	5736.6109	5813.4659	---	---

Test Graphs





11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



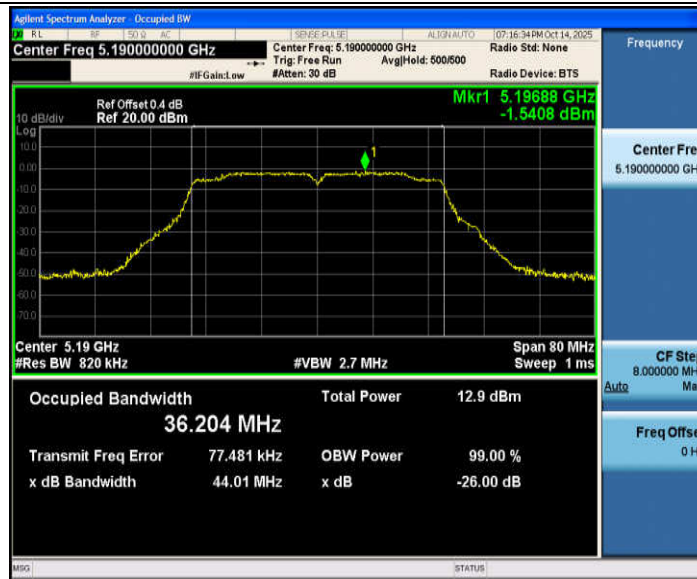
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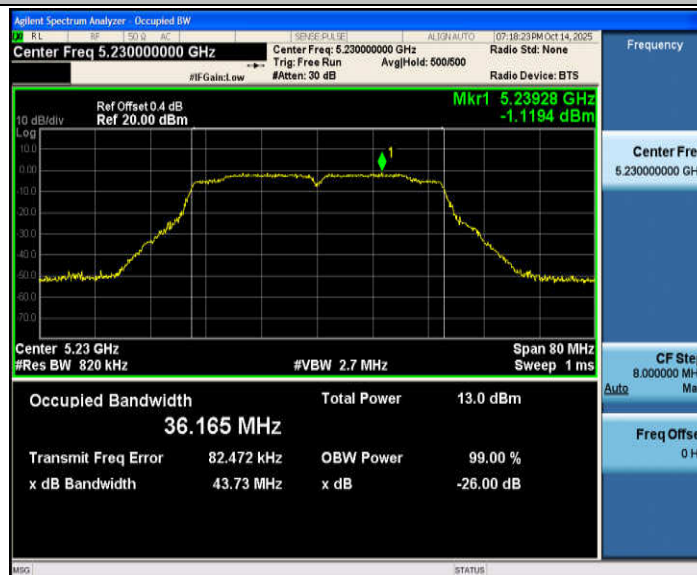
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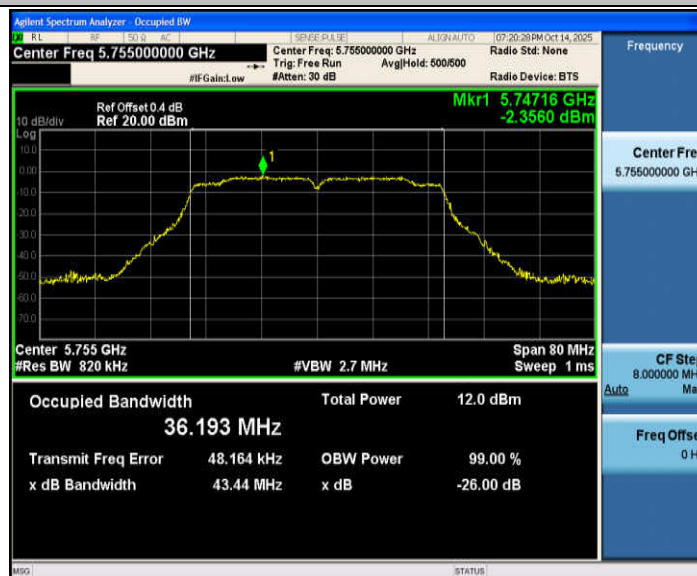
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11N40SISO_Ant1_5230



11N40SISO_Ant1_5755





11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



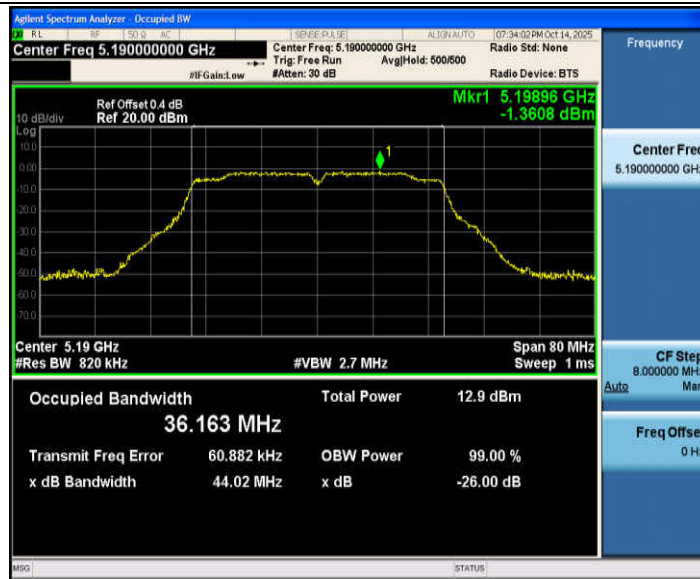
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11AC20SISO_Ant1_5825



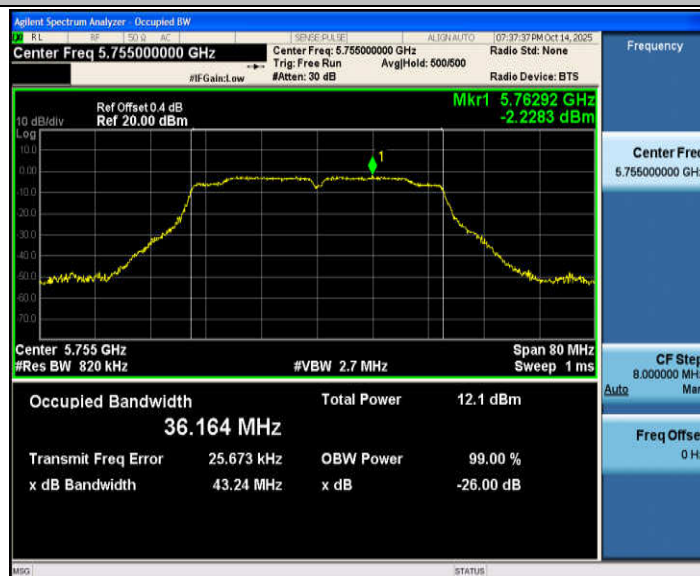
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11AC40SISO_Ant1_5230



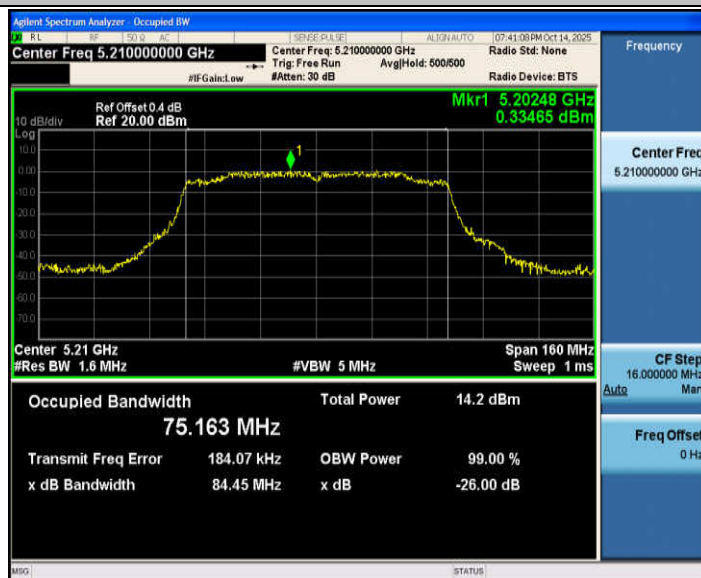
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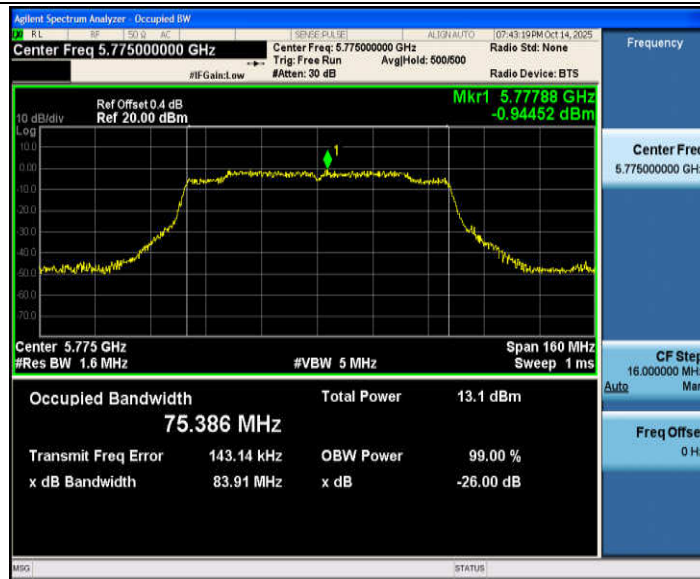
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5220



11AX20SISO_Ant1_5240



11AX20SISO_Ant1_5745



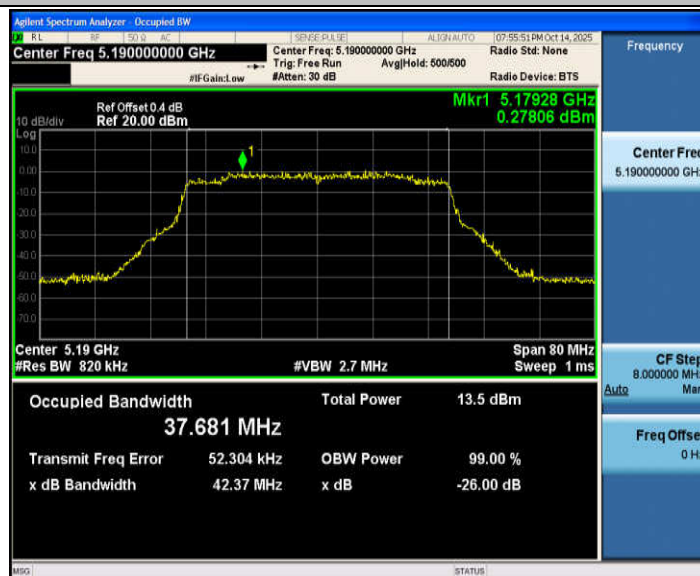
11AX20SISO_Ant1_5785



11AX20SISO_Ant1_5825



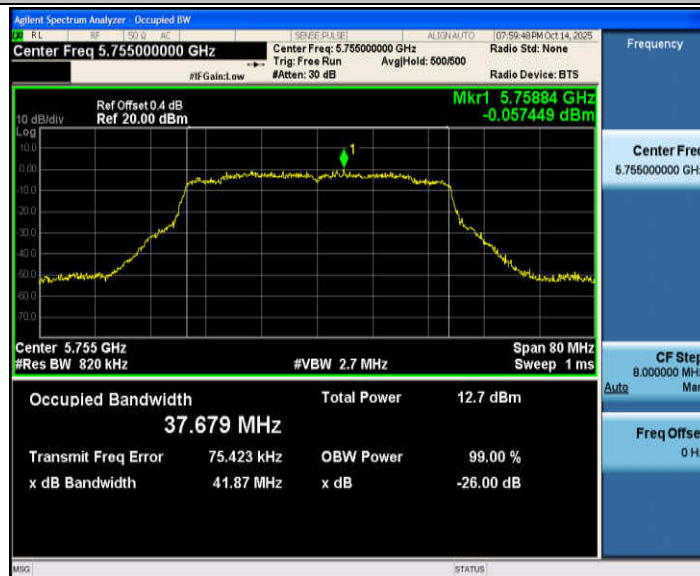
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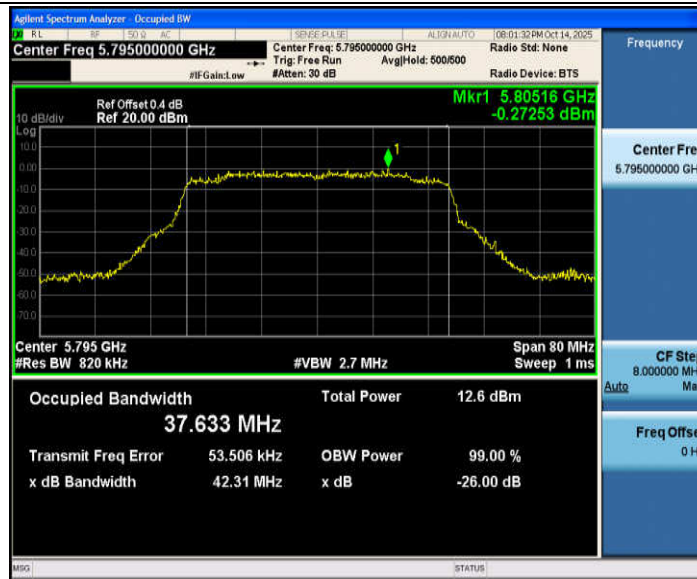
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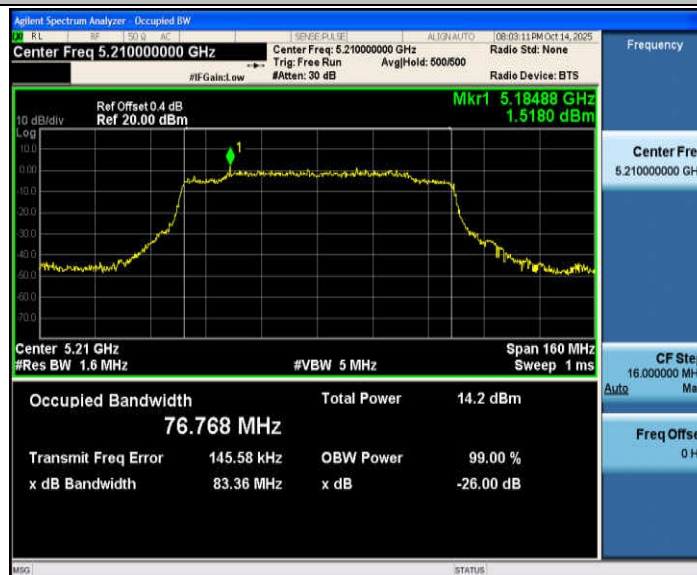
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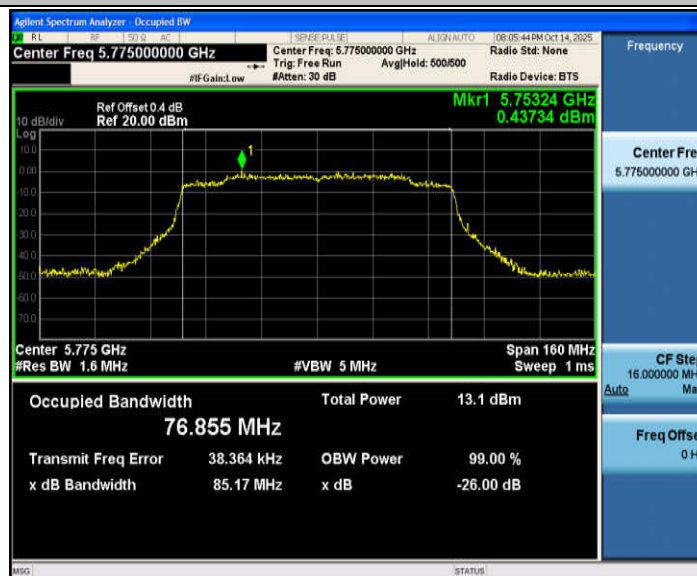
11AX40SISO_Ant1_5795



11AX80ISO_Ant1_5210



11AX80ISO_Ant1_5775



Appendix A3: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11N20SISO	Ant1	5745	15.160	5737.400	5752.560	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11N40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
		5785	15.080	5777.480	5792.560	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11AC40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.040	5737.400	5812.440	0.5	PASS
11AX20SISO	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	15.080	5817.480	5832.560	0.5	PASS
11AX40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AX80SISO	Ant1	5775	75.040	5737.400	5812.440	0.5	PASS

11A_Ant1_5745

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.745000000 GHz

Ref Offset 0.4 dB
Ref 20.00 dBm

Trig: Free Run
#Atten: 30 dB

#Avg Type: RMS
Avg/Hold: 100/100

Span 40.00 MHz
Sweep 3.867 ms (1001 pts)

ΔMkr3 15.12 MHz
0.746 dB

MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.737 44 GHz	-11.268 dBm			
2	N	1	f	5.746 24 GHz	-5.551 dBm			
3	Δ	1	f (Δ)	15.12 MHz (Δ)	0.746 dB			

11A_Ant1_5785

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.785000000 GHz

Ref Offset 0.4 dB
Ref 20.00 dBm

Trig: Free Run
#Atten: 30 dB

#Avg Type: RMS
Avg/Hold: 100/100

Span 40.00 MHz
Sweep 3.867 ms (1001 pts)

ΔMkr3 15.12 MHz
-1.446 dB

MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.777 44 GHz	-9.744 dBm			
2	N	1	f	5.786 24 GHz	-5.686 dBm			
3	Δ	1	f (Δ)	15.12 MHz (Δ)	-1.446 dB			



11N20SISO_Ant1_5745



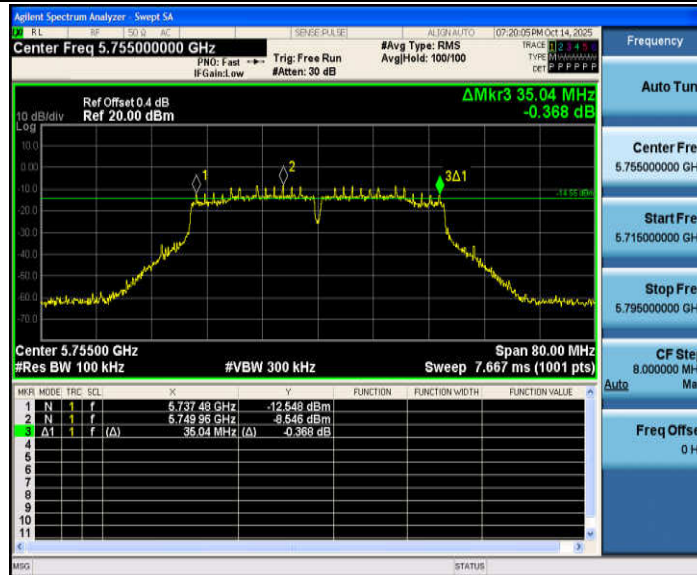
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795