

FCC Appendix RF Test Data for 5GWIFI

FCC ID : 2BAQY-HE6WIFI

Company : HIFIMAN KUNSHAN TECHNOLOGY GROUP CO., LTD.

EUT : WiFi streaming tablet diaphragm headphones

Model Number : HE6 WiFi

Report No. : CTA26090201804

Reviewed By : Eric Wang

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	23.800	5167.960	5191.760	---	---
		5220	24.480	5207.680	5232.160	---	---
		5240	23.480	5228.200	5251.680	---	---
		5745	24.440	5732.720	5757.160	---	---
		5785	24.480	5772.640	5797.120	---	---
		5825	24.760	5812.280	5837.040	---	---
11N20SISO	Ant1	5180	24.560	5167.840	5192.400	---	---
		5220	24.040	5207.760	5231.800	---	---
		5240	24.200	5228.040	5252.240	---	---
		5745	25.120	5732.320	5757.440	---	---
		5785	24.600	5772.480	5797.080	---	---
		5825	24.640	5812.440	5837.080	---	---
11N40SISO	Ant1	5190	42.080	5168.720	5210.800	---	---
		5230	43.280	5208.640	5251.920	---	---
		5755	43.920	5733.240	5777.160	---	---
		5795	43.840	5773.160	5817.000	---	---
11AC20SISO	Ant1	5180	23.560	5168.440	5192.000	---	---
		5220	23.800	5207.760	5231.560	---	---
		5240	23.680	5227.840	5251.520	---	---
		5745	24.160	5732.640	5756.800	---	---
		5785	23.880	5772.680	5796.560	---	---
		5825	23.560	5813.000	5836.560	---	---
11AC40SISO	Ant1	5190	43.040	5168.400	5211.440	---	---
		5230	42.720	5208.320	5251.040	---	---
		5755	43.200	5733.400	5776.600	---	---
		5795	43.040	5773.800	5816.840	---	---
11AC80SISO	Ant1	5210	85.120	5167.600	5252.720	---	---
		5775	84.960	5732.760	5817.720	---	---

Test Graphs



11A_Ant1_5220

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.220000000 GHz

Ref Offset 0.5 dB
Ref 20.00 dBm

Trig: Free Run
#Att: 30 dB

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

01:30:13 AM Sep 09, 2006

Frequency

Auto Tune

Center Freq
5.220000000 GHz

Start Freq
5.200000000 GHz

Stop Freq
5.240000000 GHz

CF Step
4.0000000 MHz
Auto Man

Freq Offset
0 Hz

10 dB/div
Log

Ref Offset 0.5 dB
Ref 20.00 dBm

Δ Mkr3 24.48 MHz
-1.034 dB

27.81 dBm

30.1

Center 5.22000 GHz
#Res BW 620 kHz
#VBW 2.0 MHz
Span 40.00 MHz
Sweep 1.000 ms (1001 pts)

MR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.20768 GHz	-30.043 dBm			
2	N	1	f	5.22348 GHz	-1.965 dBm			
3	Δ 1	1	f (Δ)	24.48 MHz (Δ)	-1.034 dB			

11A_Ant1_5240



11A_Ant1_5745



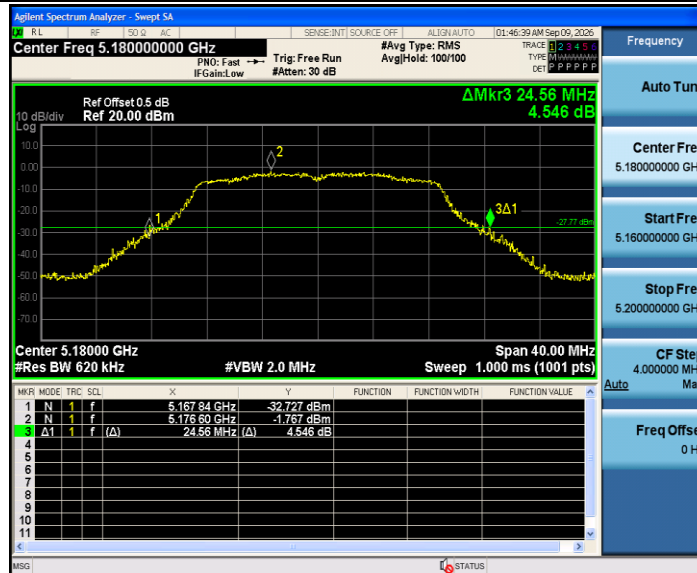
11A_Ant1_5785



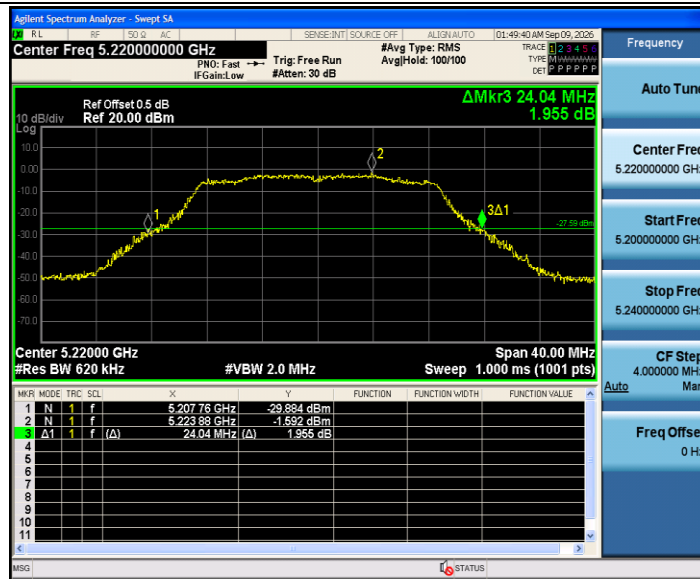
11A_Ant1_5825



11N20SISO_Ant1_5180



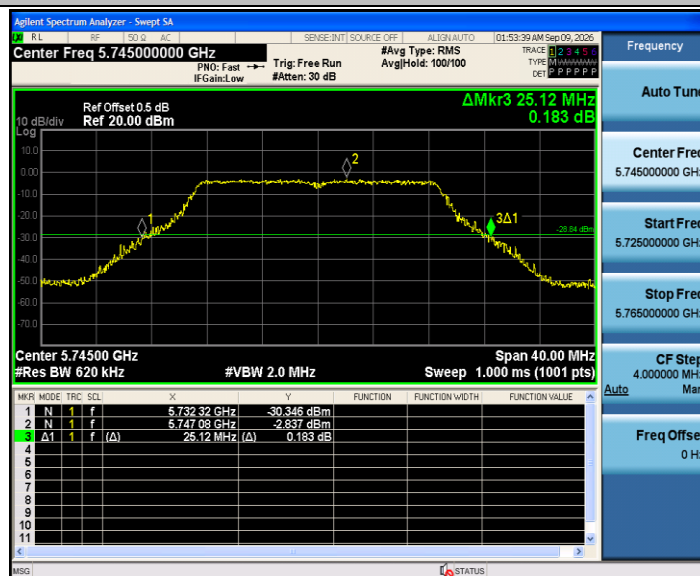
11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



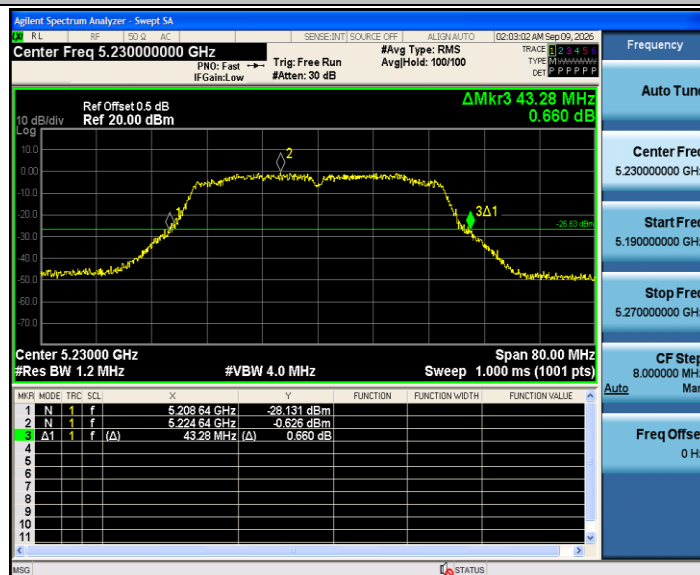
11N20SISO_Ant1_5825



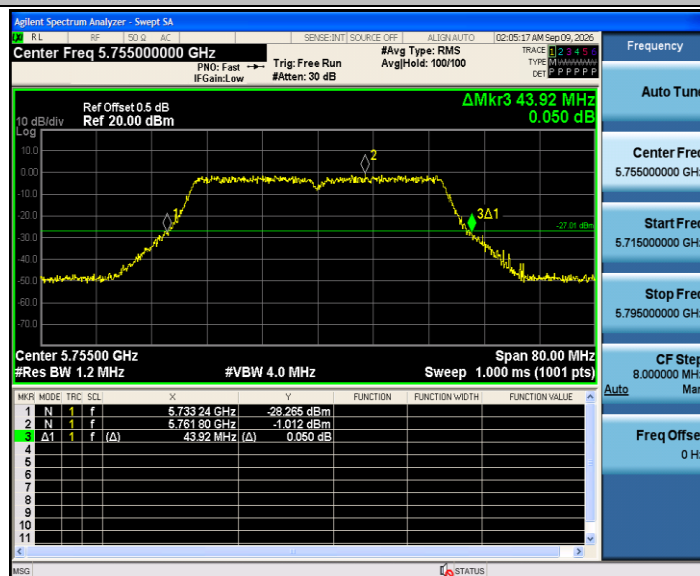
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



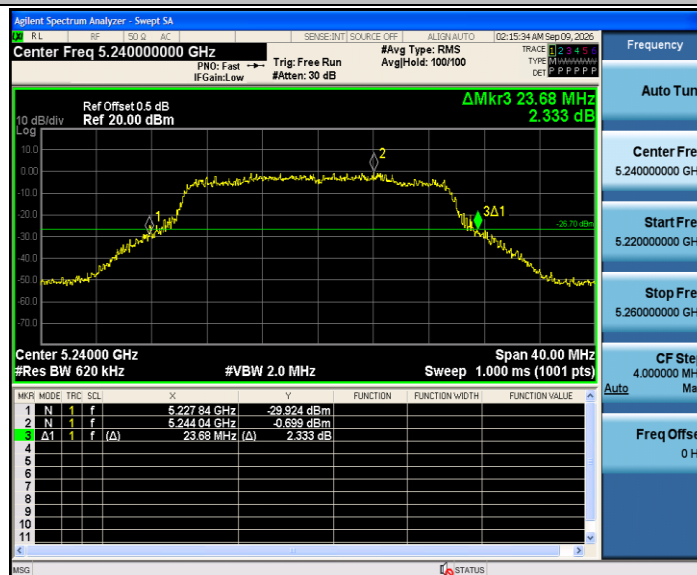
11AC20SISO_Ant1_5180



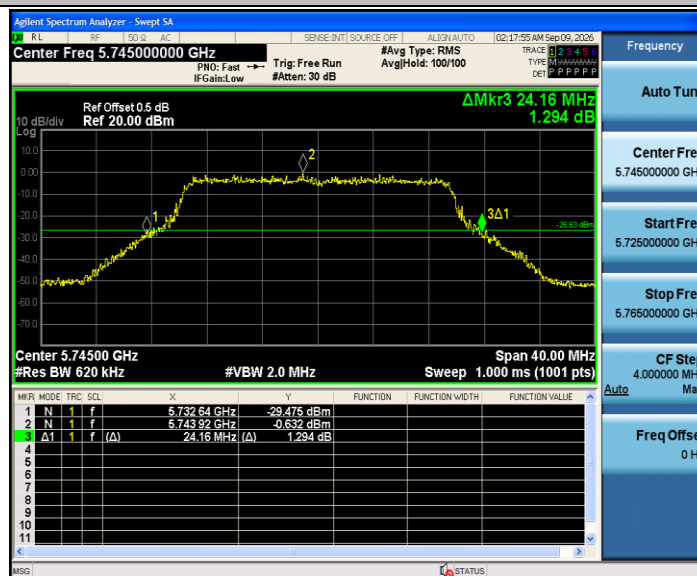
11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



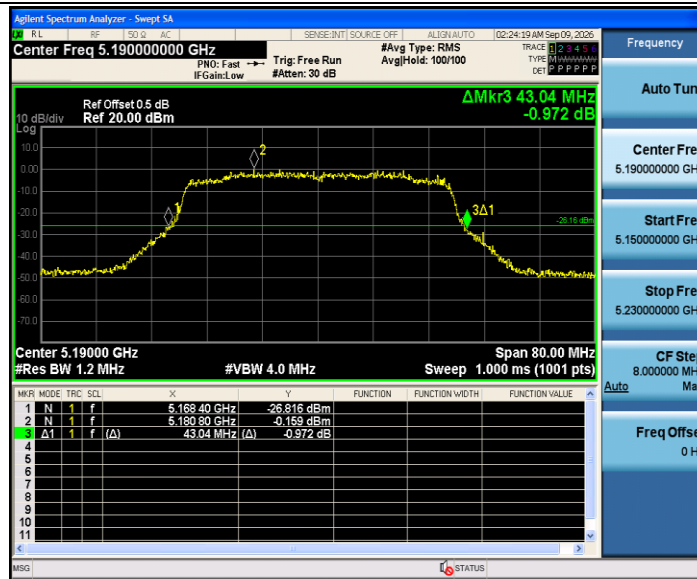
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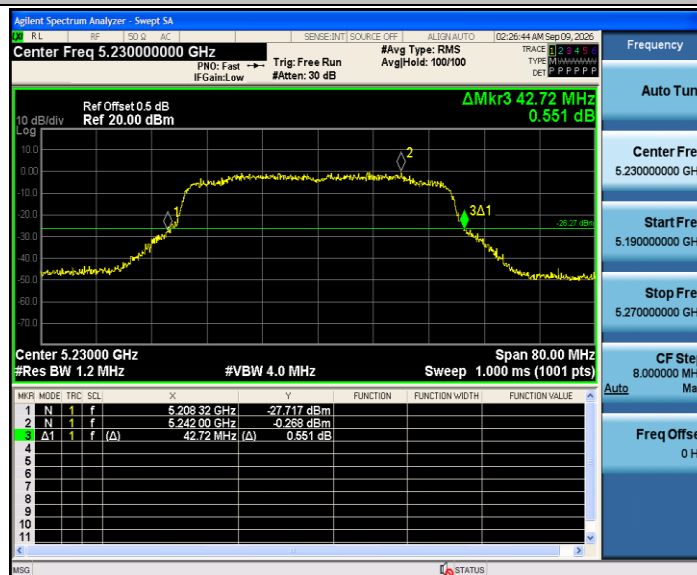
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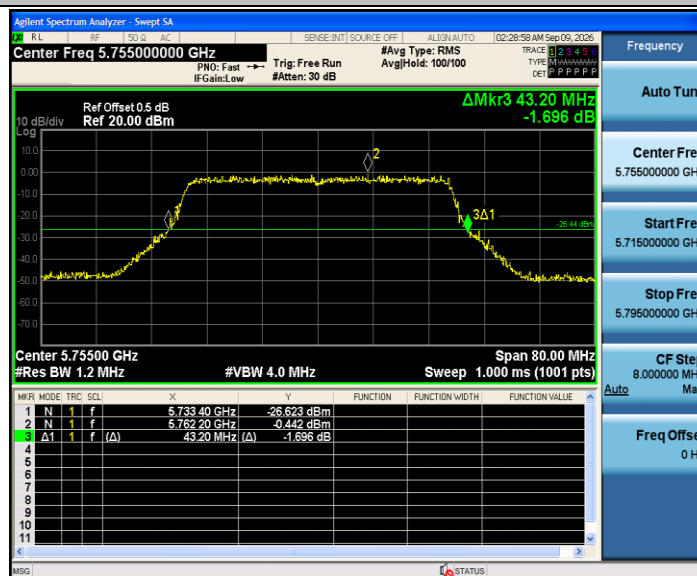
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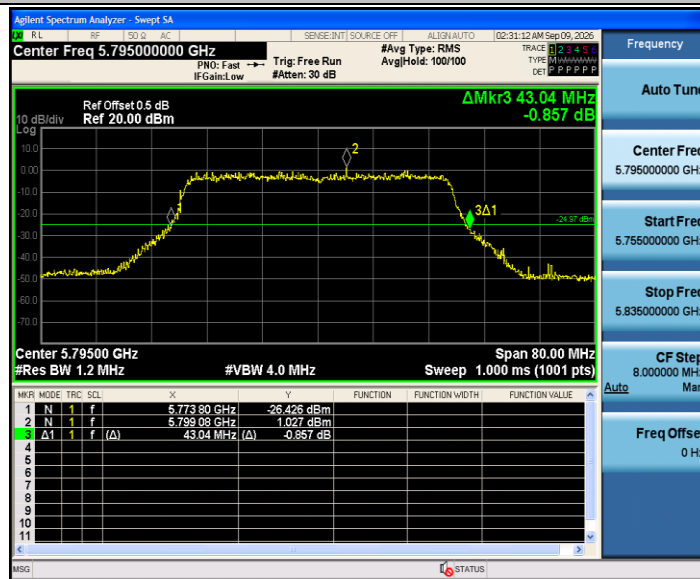
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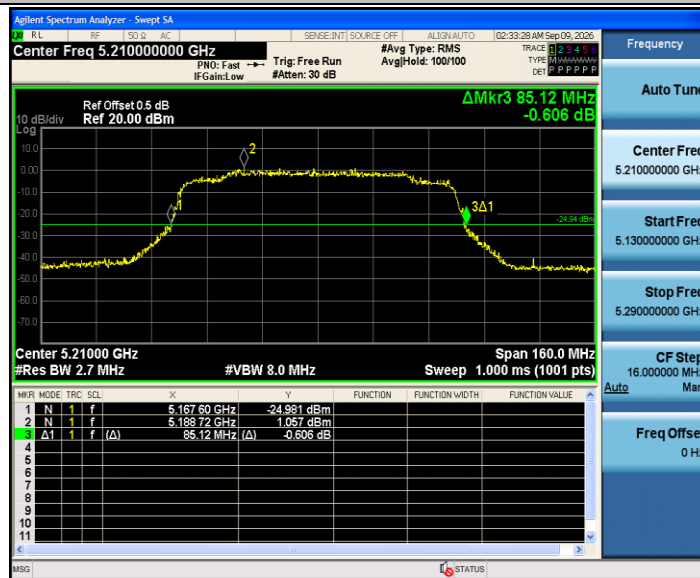
11AC40SISO_Ant1_5755



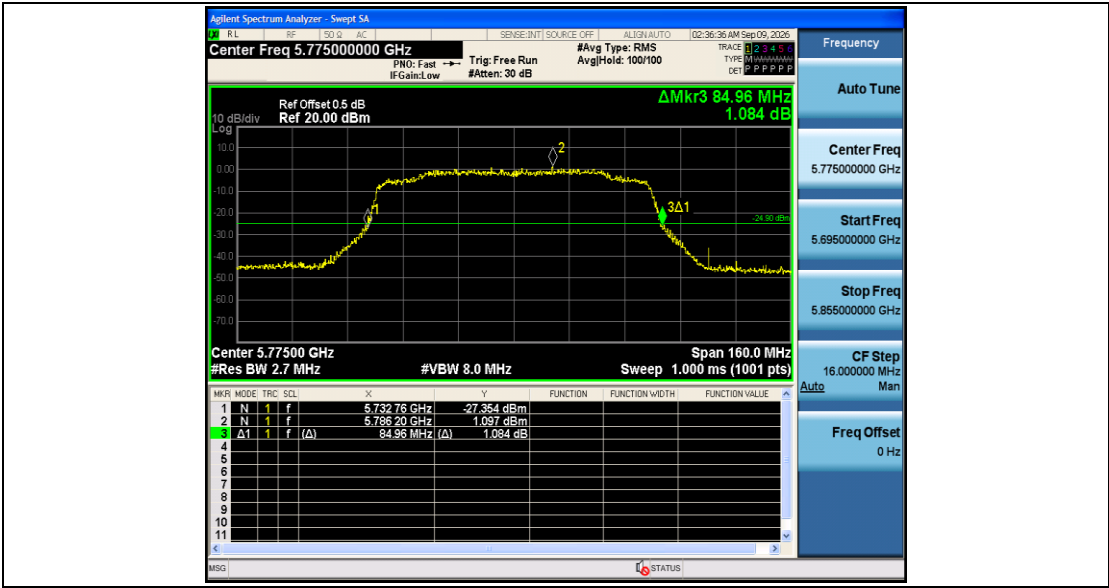
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



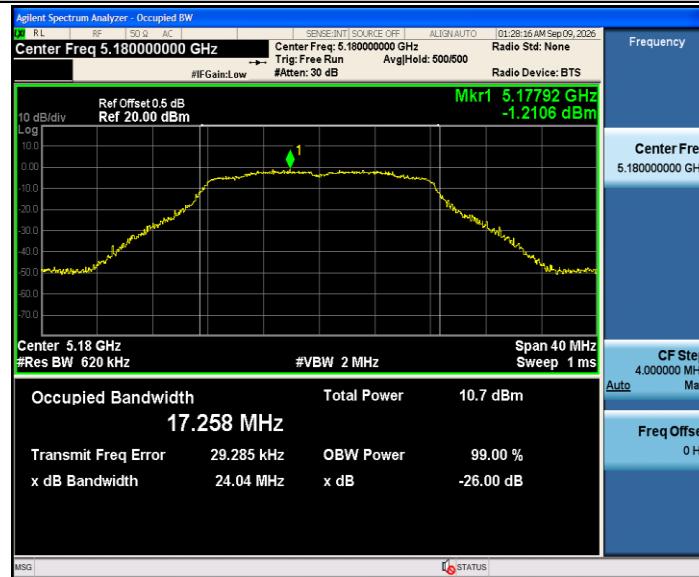
Appendix A2: Occupied channel bandwidth

Test Result

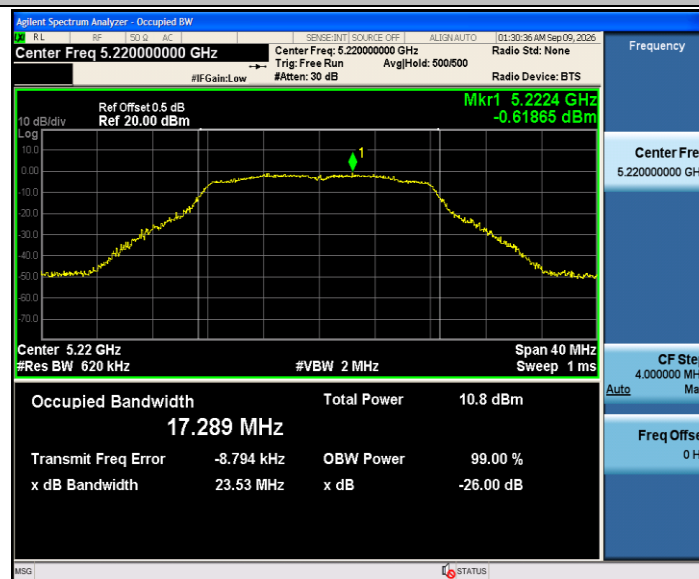
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.258	5171.4003	5188.6583	---	---
		5220	17.289	5211.3467	5228.6357	---	---
		5240	17.312	5231.3320	5248.6440	---	---
		5745	17.748	5736.1186	5753.8666	---	---
		5785	17.775	5776.1289	5793.9039	---	---
		5825	17.645	5816.1725	5833.8175	---	---
11N20SISO	Ant1	5180	18.277	5170.8995	5189.1765	---	---
		5220	18.263	5210.8746	5229.1376	---	---
		5240	18.326	5230.8375	5249.1635	---	---
		5745	18.736	5735.6292	5754.3652	---	---
		5785	18.685	5775.6520	5794.3370	---	---
		5825	18.662	5815.6758	5834.3378	---	---
11N40SISO	Ant1	5190	36.236	5171.9245	5208.1605	---	---
		5230	36.308	5211.9126	5248.2206	---	---
		5755	36.942	5736.6257	5773.5677	---	---
		5795	36.965	5776.6248	5813.5898	---	---
11AC20SISO	Ant1	5180	19.124	5170.4817	5189.6057	---	---
		5220	19.143	5210.4464	5229.5894	---	---
		5240	19.078	5230.4540	5249.5320	---	---
		5745	19.471	5735.2787	5754.7497	---	---
		5785	19.380	5775.3311	5794.7111	---	---
		5825	19.353	5815.3244	5834.6774	---	---
11AC40SISO	Ant1	5190	37.709	5171.1738	5208.8828	---	---
		5230	37.687	5211.1967	5248.8837	---	---
		5755	38.235	5735.9633	5774.1983	---	---
		5795	38.313	5775.8952	5814.2082	---	---
11AC80SISO	Ant1	5210	77.069	5171.5037	5248.5727	---	---
		5775	77.102	5736.7110	5813.8130	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5220



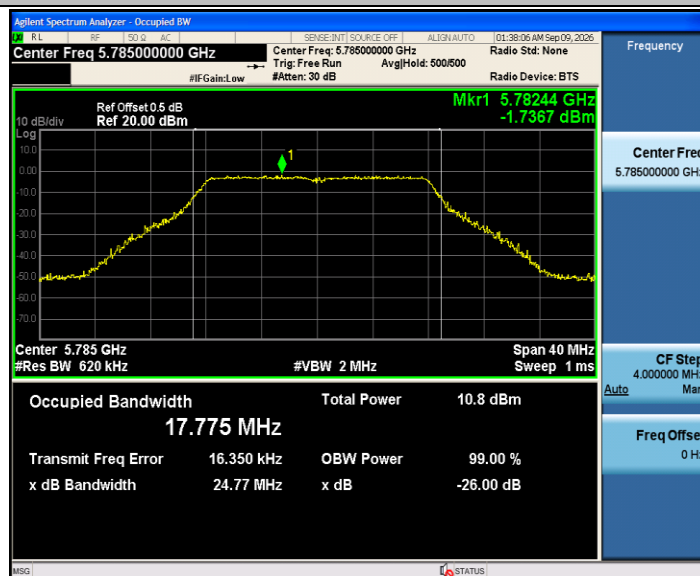
11A_Ant1_5240



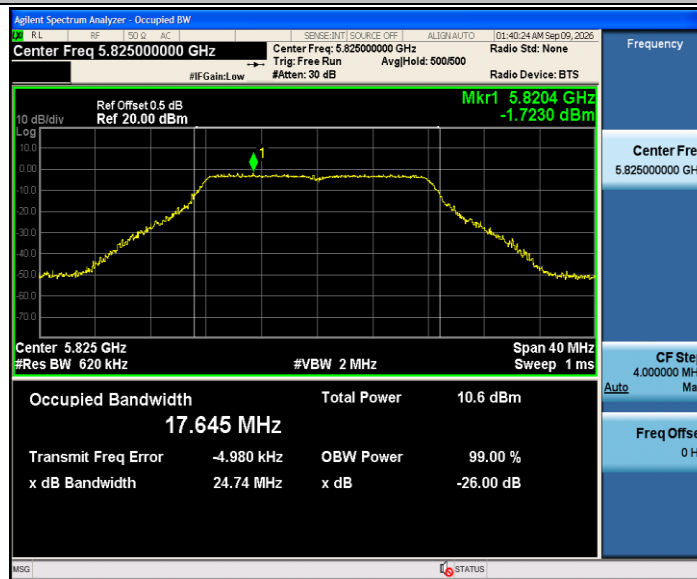
11A_Ant1_5745



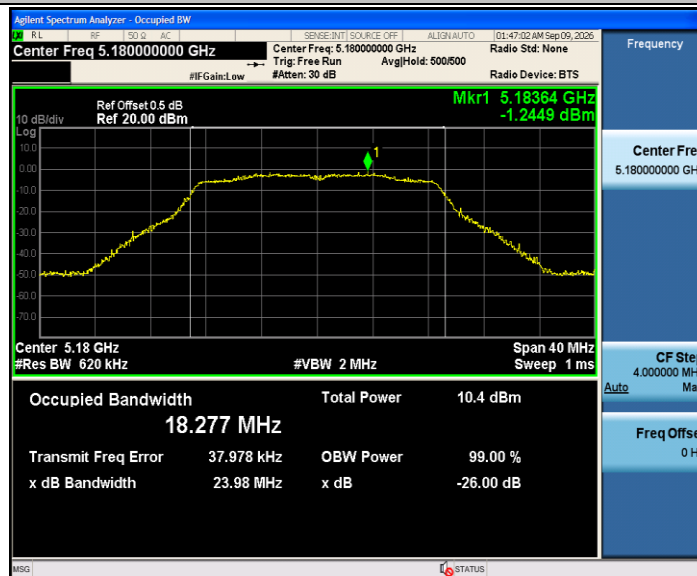
11A_Ant1_5785



11A_Ant1_5825



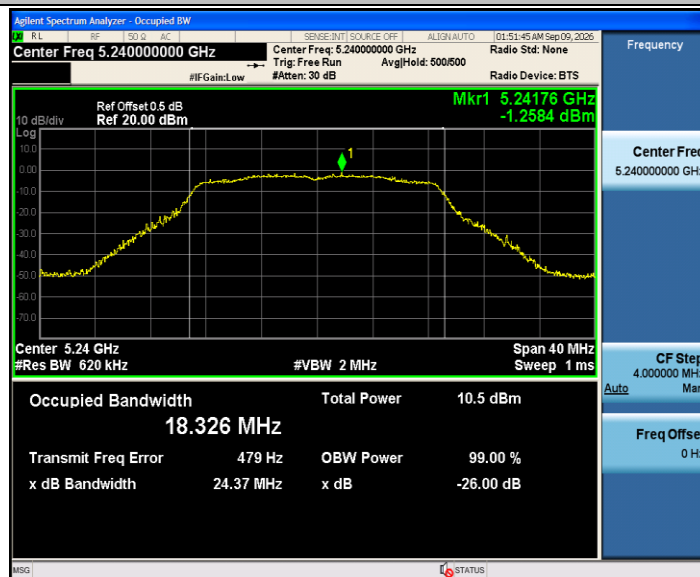
11N20SISO_Ant1_5180



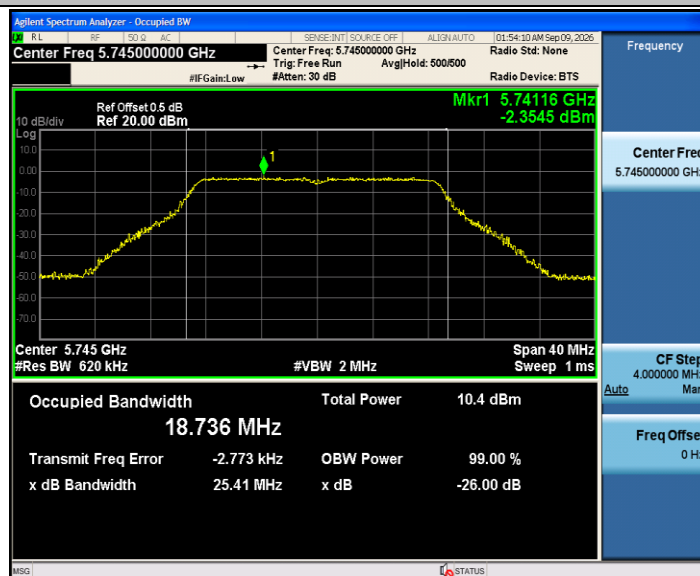
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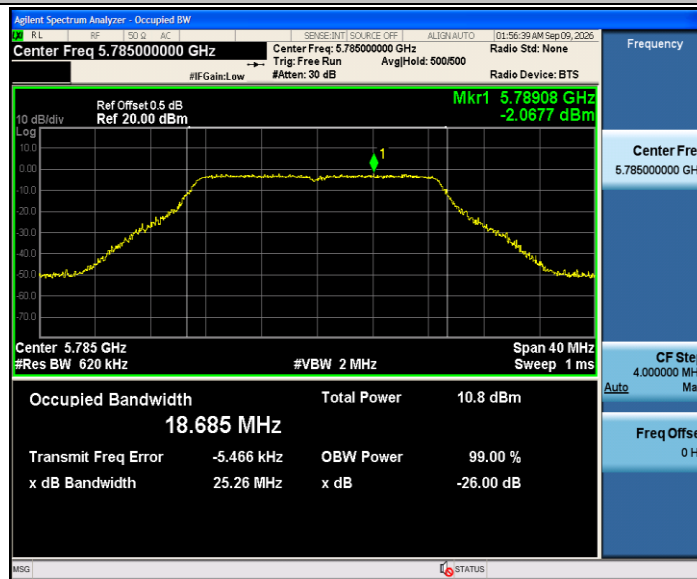
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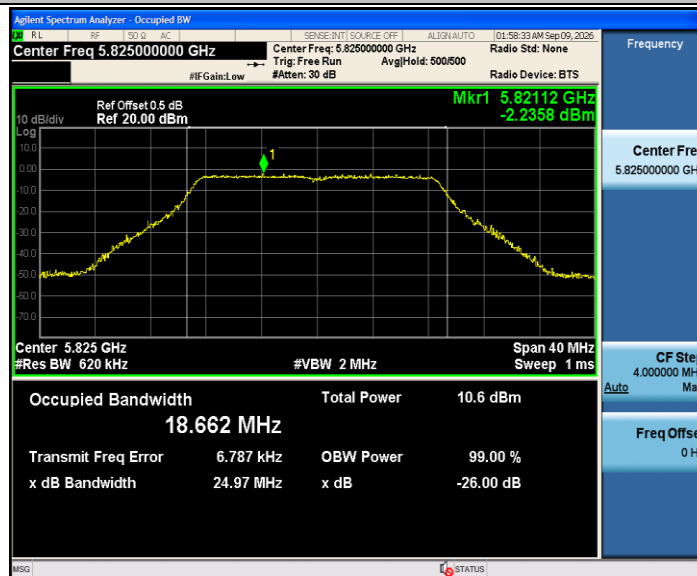
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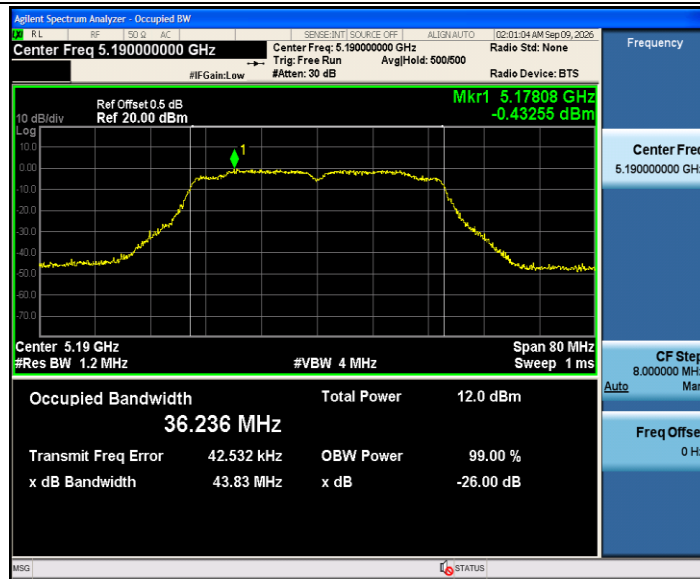
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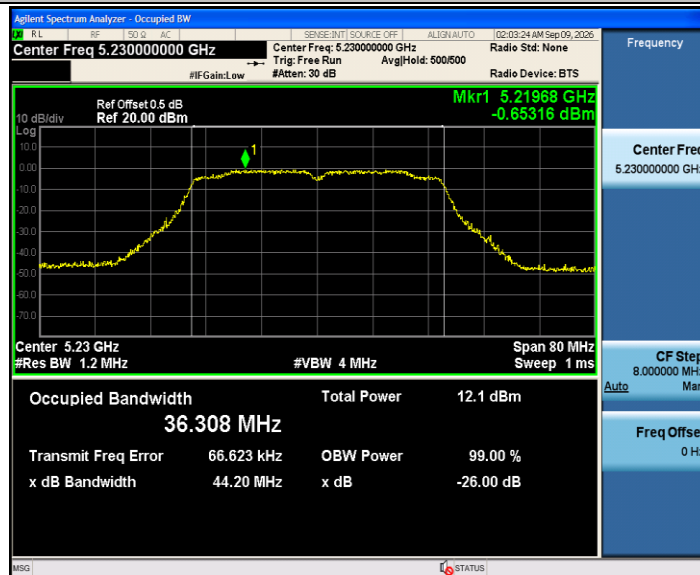
11N20SISO_Ant1_5825



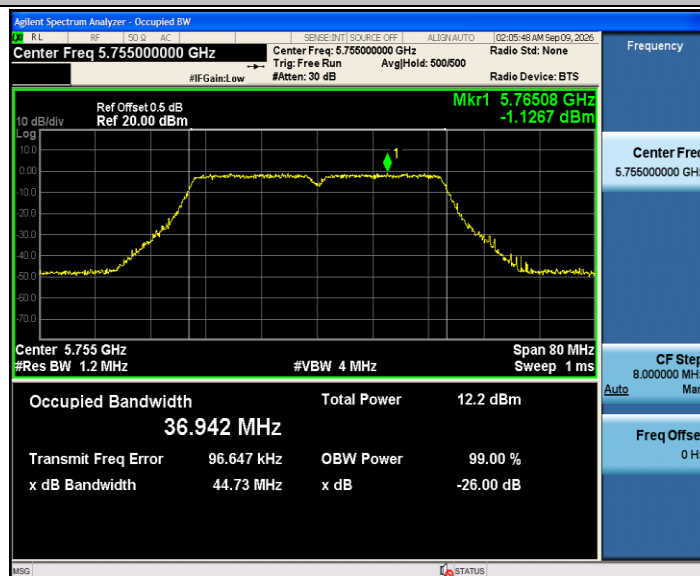
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



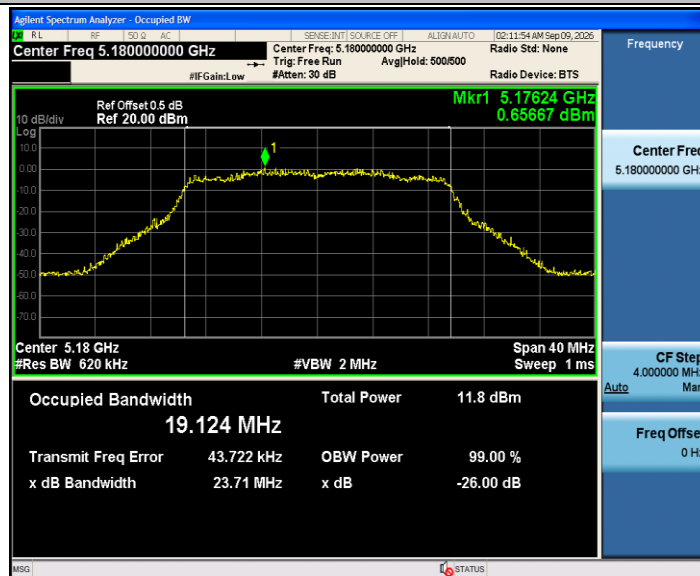
11N40SISO_Ant1_5755



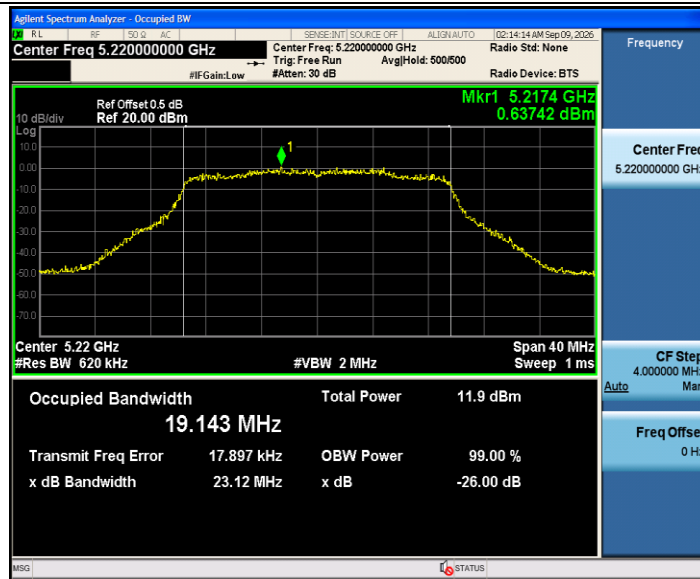
11N40SISO_Ant1_5795



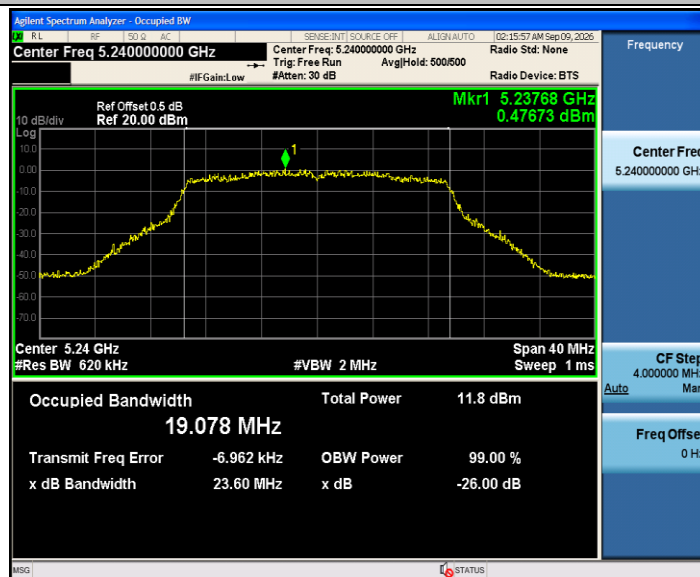
11AC20SISO_Ant1_5180



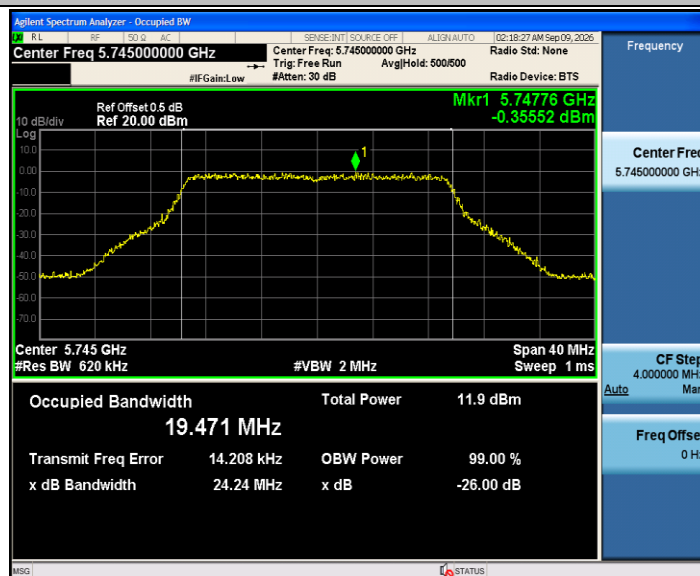
11AC20SISO_Ant1_5220



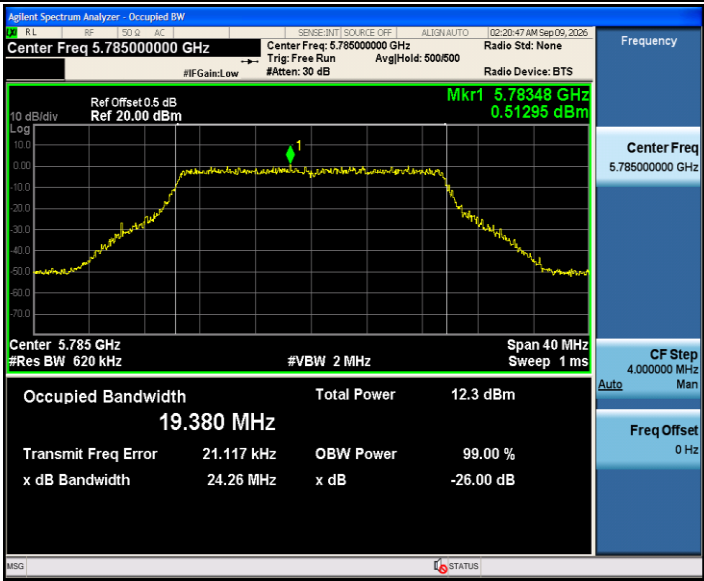
11AC20SISO_Ant1_5240



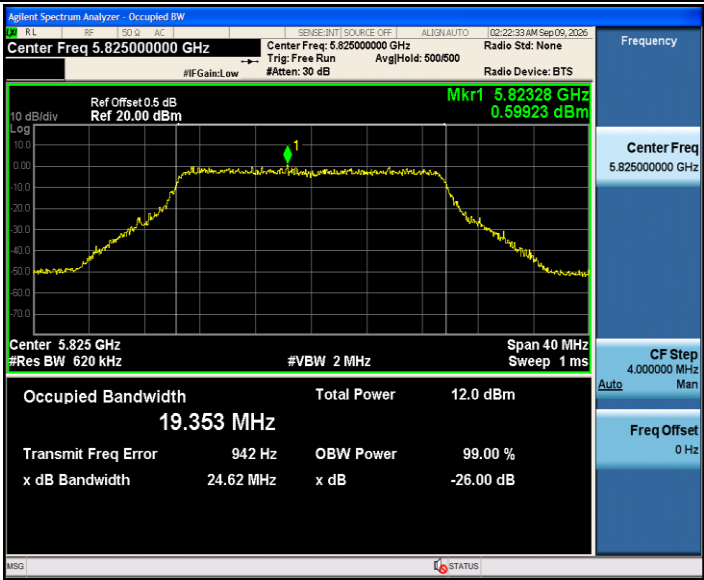
11AC20SISO_Ant1_5745



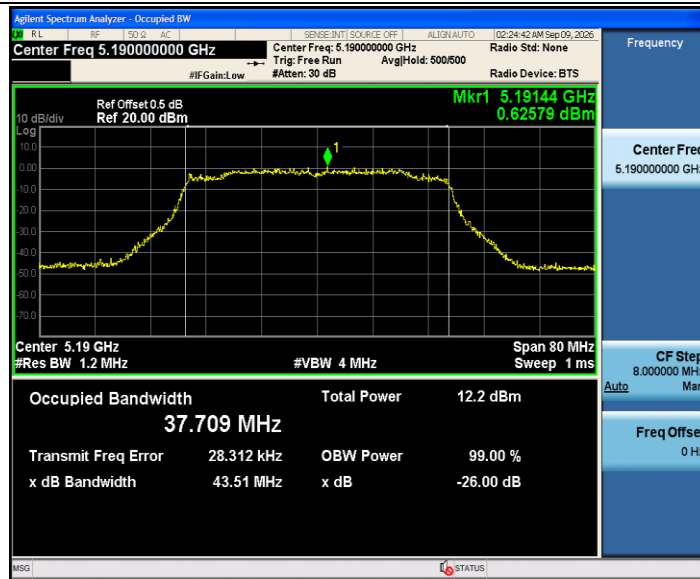
11AC20SISO_Ant1_5785



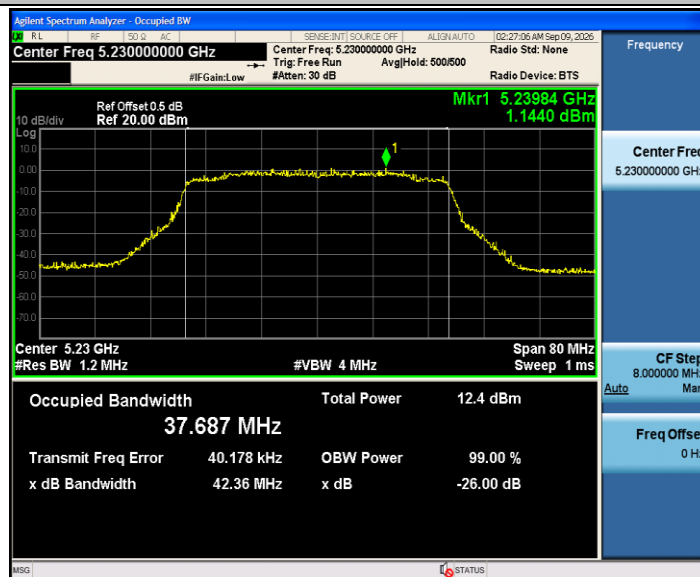
11AC20SISO_Ant1_5825



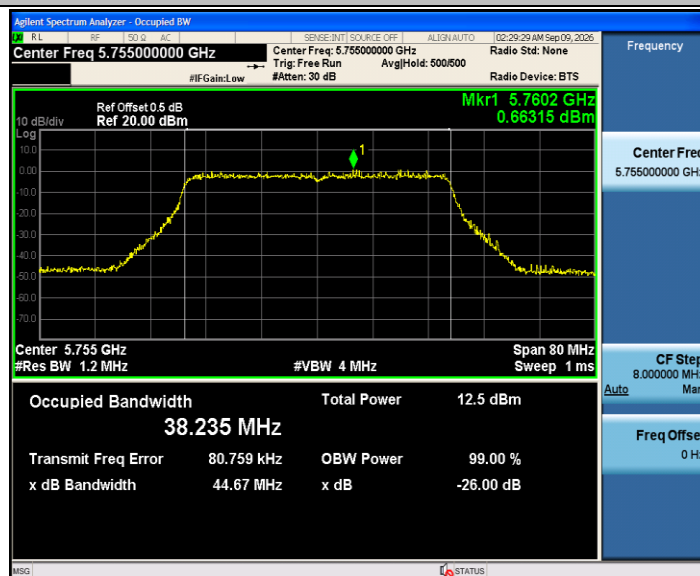
11AC40SISO_Ant1_5190



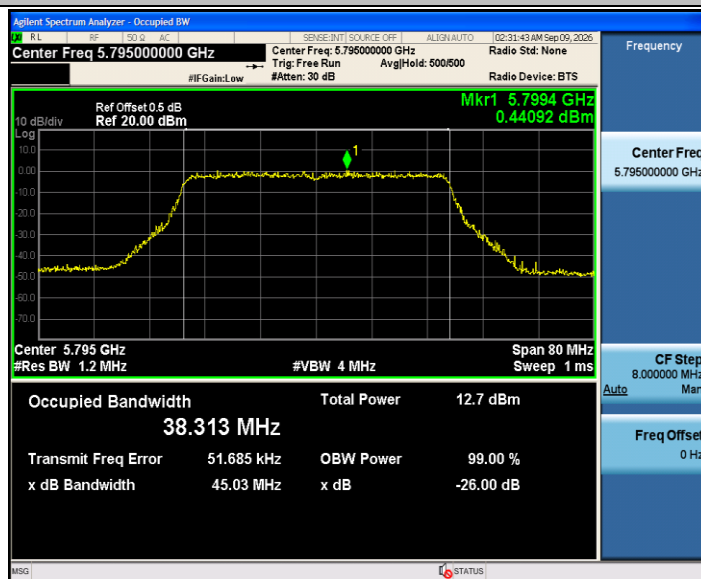
11AC40SISO_Ant1_5230



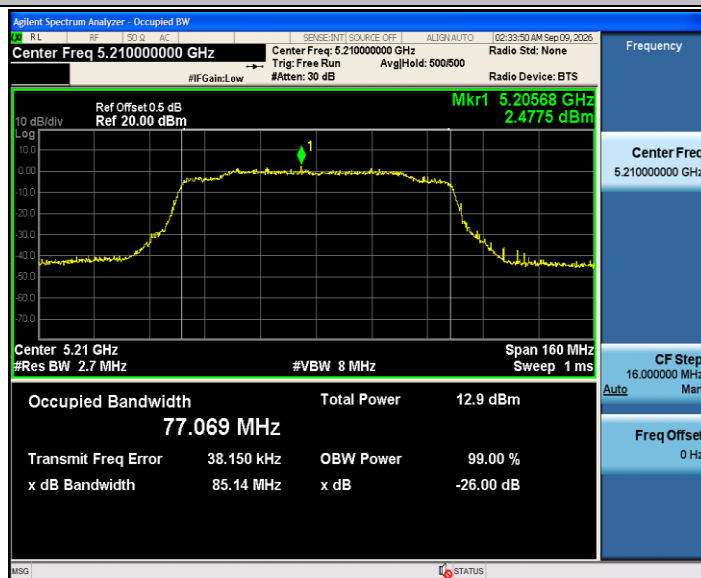
11AC40SISO_Ant1_5755



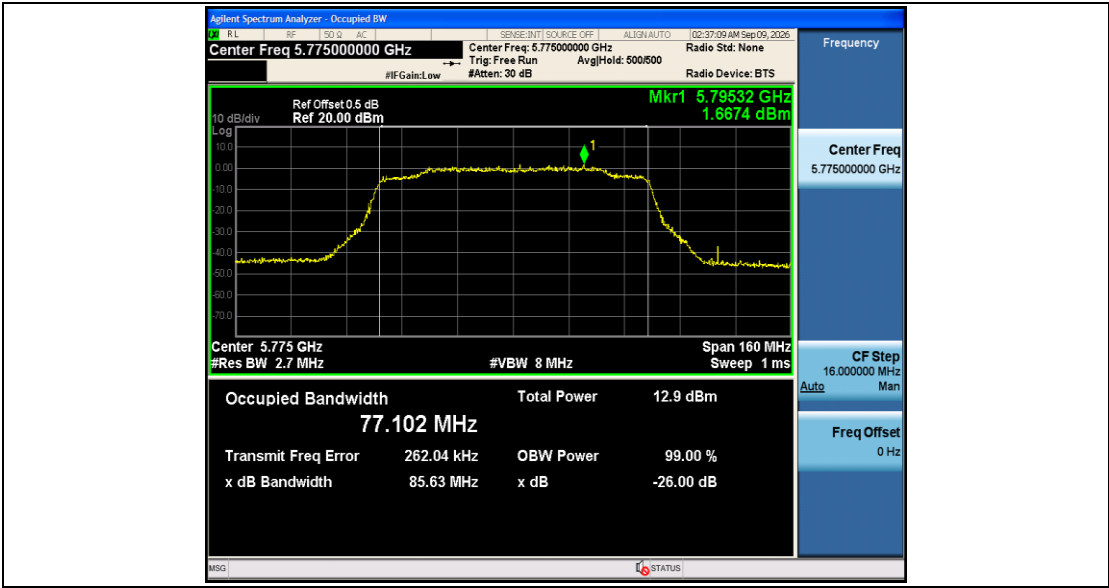
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



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	16.320	5736.840	5753.160	0.5	PASS
		5785	16.320	5776.840	5793.160	0.5	PASS
		5825	16.320	5816.840	5833.160	0.5	PASS
11N20SISO	Ant1	5745	17.640	5736.160	5753.800	0.5	PASS
		5785	17.560	5776.240	5793.800	0.5	PASS
		5825	17.600	5816.200	5833.800	0.5	PASS
11N40SISO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
		5795	36.400	5776.840	5813.240	0.5	PASS
11AC20SISO	Ant1	5745	19.040	5735.440	5754.480	0.5	PASS
		5785	18.560	5775.640	5794.200	0.5	PASS
		5825	19.080	5815.480	5834.560	0.5	PASS
11AC40SISO	Ant1	5755	38.080	5735.960	5774.040	0.5	PASS
		5795	37.920	5776.040	5813.960	0.5	PASS
11AC80SISO	Ant1	5775	62.880	5738.680	5801.560	0.5	PASS

Test Graphs B4





11N20SISO_Ant1_5745



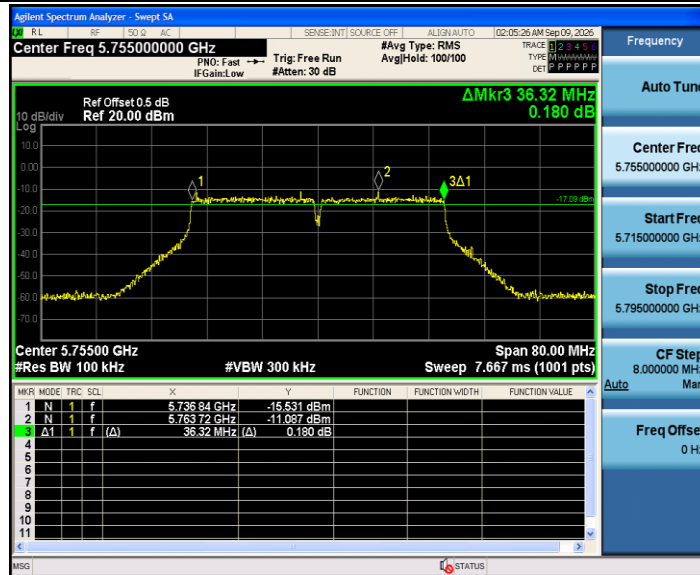
11N20SISO_Ant1_5785



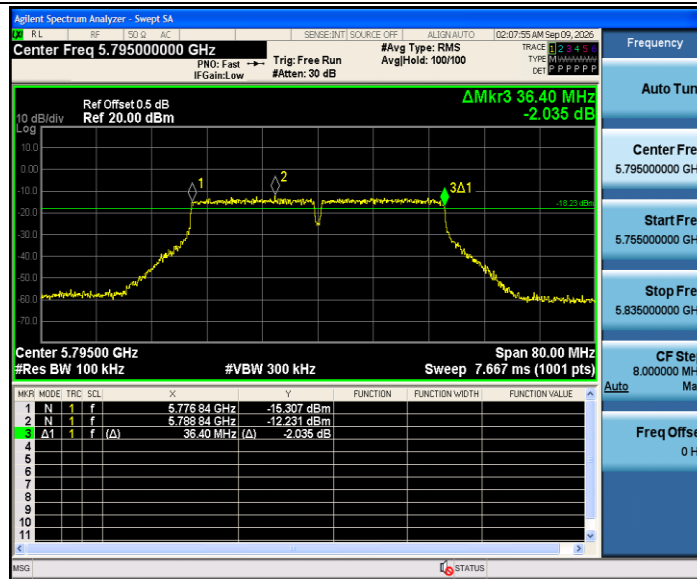
11N20SISO_Ant1_5825



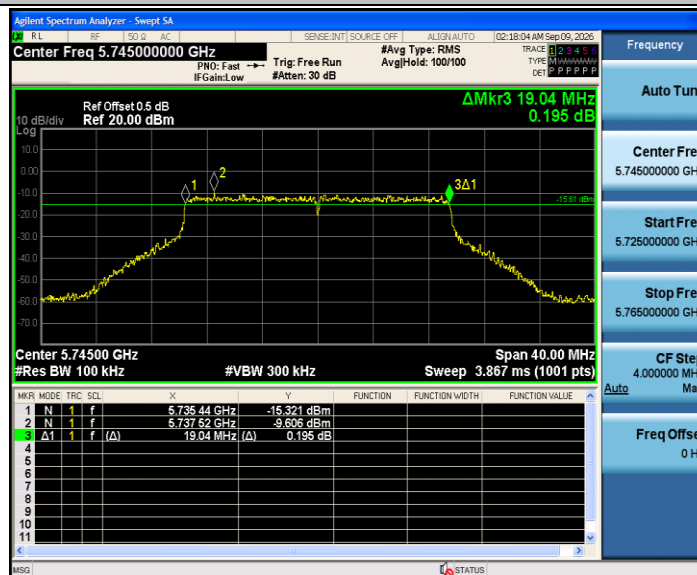
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785

