

TEST REPORT

Product : WIRELESS BATTERY DIAGNOSTICS
SYSTEM
Trade mark : AUTEL
Model/Type reference : MaxiBAS BT609
Serial Number : N/A
Report Number : EED32M00253904
FCC ID : WQ8MAXIBASBT609
Date of Issue : Jan. 04, 2021
Test Standards : 47 CFR Part 15 Subpart E
Test result : PASS

Prepared for:

Autel Intelligent Tech. Corp., Ltd.
7th-8th, 10th Floor, Bldg. B1, Zhiyuan,
Xueyuan Rd. Xili, Nanshan, Shenzhen, 518055, China

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Zone, Bao'an 70 District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385



Compiled by:

Tom Chen

Tom Chen

Approved by:

David Wang

David Wang

Reviewed by:

Aaron Ma

Aaron Ma

Date:

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Check No.: 4762102967

2 Version

Version No.	Date	Description
00	Jan. 04, 2021	Original

3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.407 (b)(6)	ANSI C63.10-2013	PASS
Conducted Output Power and transmit power control mechanism	47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(4)(h)(1)	ANSI C63.10-2013	PASS
26dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)	ANSI C63.10-2013	PASS
Peak Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(5)	ANSI C63.10-2013	PASS
Peak power excursion	47 CFR Part 15 Subpart E Section 15.407 (a)(6)	ANSI C63.10-2013	N/A
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	ANSI C63.10-2013	PASS
Operation in the absence of information to the transmit	47 CFR Part 15 Subpart E Section 15.407 (c)	47 CFR Part 15 Subpart E	PASS
Unwanted Emissions that fall Outside of the Restricted Bands	47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(5)	ANSI C63.10-2013	PASS
Unwanted Emissions in the Restricted Bands	47 CFR Part 15 Subpart E Section 15.407 (b)(6)(7)(8)	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Subpart E Section 15.407 (b)(6)(7)(8)	ANSI C63.10-2013	PASS

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

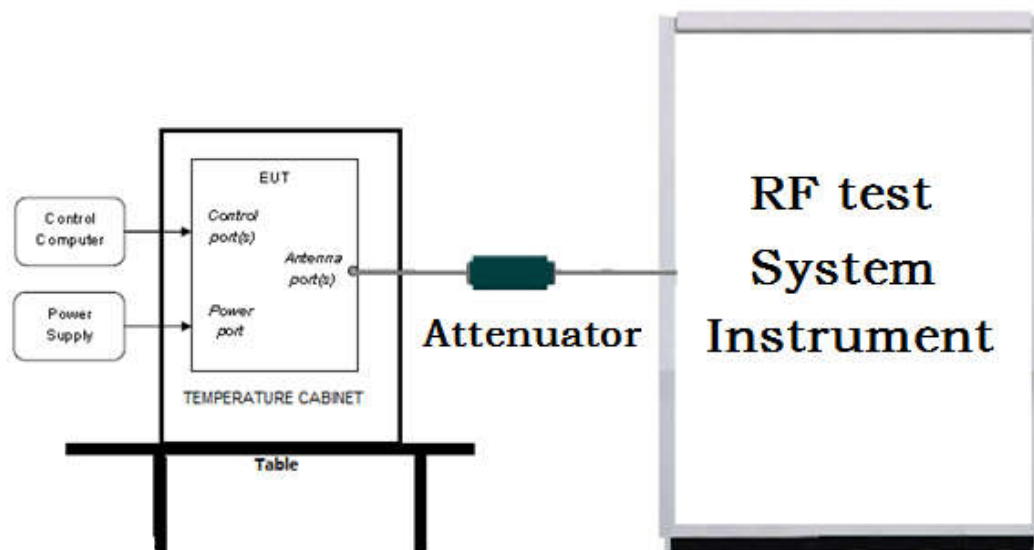
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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

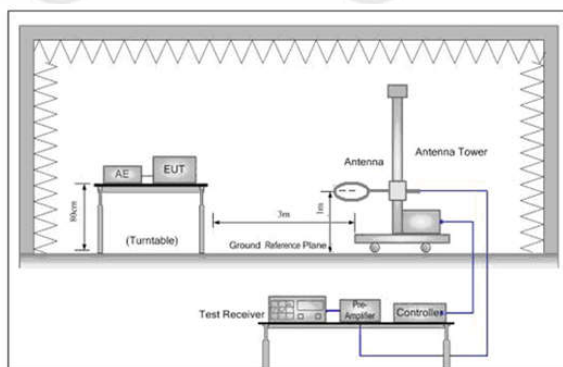


Figure 1. Below 30MHz

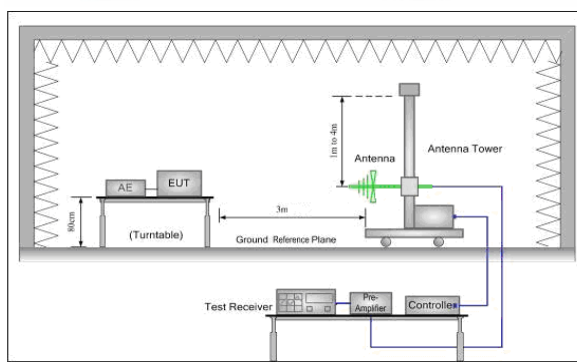


Figure 2. 30MHz to 1GHz

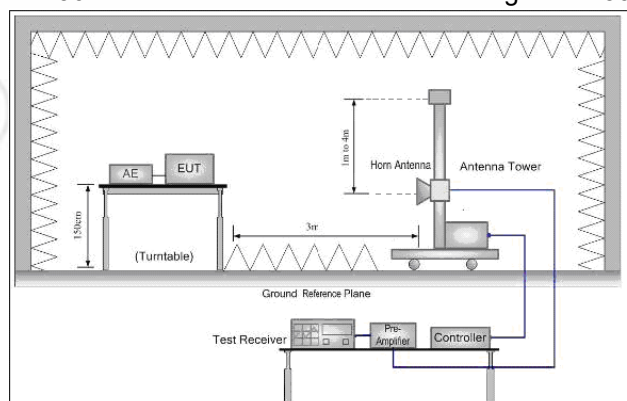
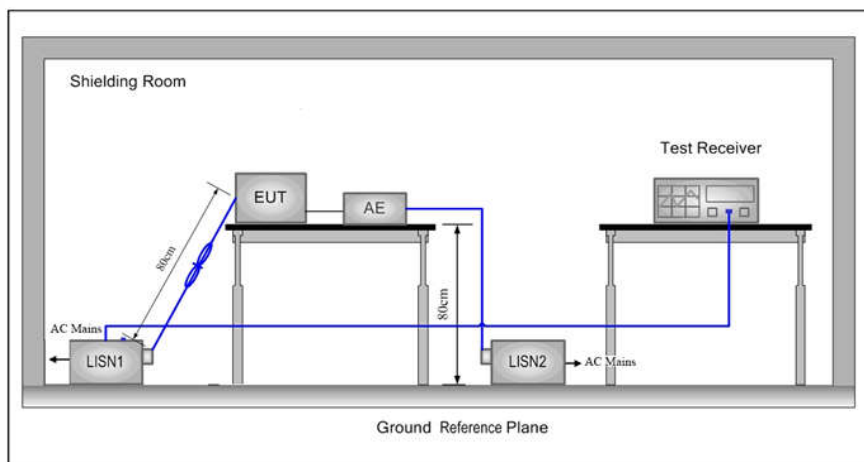


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup

Conducted Emissions setup



5.2 Test Environment

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010mbar

5.3 Test Condition

The worse case configurations, The worse case data was recorded in the report.

Band	802.11 Mode	Data rate (in Mb/s)
5180-5320MHz, 5500-5720MHz, 5745-5825MHz	a	6
	n(HT20)	6.5
	ac(VHT20)	6.5
	n(HT40)	13.5
	ac(VHT40)	13.5
	ac(HT80)	29.3

6 General Information

6.1 Client Information

Applicant:	Autel Intelligent Tech. Corp., Ltd.
Address of Applicant:	7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd. Xili, Nanshan, Shenzhen, 518055, China
Manufacturer:	Autel Intelligent Tech. Corp., Ltd.
Address of Manufacturer:	7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd. Xili, Nanshan, Shenzhen, 518055, China
Factory 1:	Autel Intelligent Technology Corp., Ltd. Guangming Branch
Address of Factory 1:	7F&6F, East Wing, Building 2, and 6F of Electronical Building, Yanxiang Industrial Zone, Gaoxin Rd, Dongzhou Community of Guangming New District, Shenzhen
Factory 2:	AUTEL VIETNAM COMPANY LIMITED
Address of Factory 2:	4th Floor, Factory#6, Land#CN1, An Duong Industrial Zone, Hong Phong Township, An Duong County, Hai Phong, VietNam

6.2 General Description of EUT

Product Name:	WIRELESS BATTERY DIAGNOSTICS SYSTEM	
Model No.(EUT):	MaxiBAS BT609	
Trade mark:	AUTEL	
Type of Modulation:	IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11ac(VHT20/VHT40/VHT80): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)	
Operating Frequency	U-NII-1: 5.15-5.25GHz; U-NII-3: 5.725-5.850GHz	
Operating Temperature:	-25℃ to +55℃ (Manufacturer stated range)	
Test Power Grade:	Default	
Test Software of EUT:	CMD	
Antenna Type:	FPC antenna	
Antenna Gain:	Antenna gain:4.67dBi	
Function	☐ SISO	
Power Supply:	Adapter:	MODEL: GME10C-050200FUu INPUT: 100-240V~, 50/60Hz, 0.28A OUTPUT: 5V---2A
	Battery:	Model: TB2021 Capacity: 5800mAh/22.33Wh Nominal Voltage: 3.85V
Test voltage:	Battery 3.85V	

Operation Frequency each of channel

802.11a/802.11n/802.11ac Frequency/Channel Operations:

U-NII-1		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	149	5745
40	5200	153	5765
44	5220	157	5785
48	5240	161	5805
-	-	165	5825
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

802.11n/802.11ac Frequency/Channel Operations:

U-NII-1		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
38	5190	151	5755
46	5230	159	5795
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

802.11ac Frequency/Channel Operations:

U-NII-1		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
42	5210	155	5775
-	-	-	-
-	-	-	-

802.11ac Frequency/Channel Operations:

U-NII-2C	
Channel	Frequency(MHz)
114	5570

6.3 Description of Support Units

The EUT has been tested with associated equipment below.

Associated equipment name		Manufacture	model	S/N serial number	Supplied by	Certification
AE	Notebook	DELL	DELL 3490	D245DX2	DELL	CE&FCC

6.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

6.5 Deviation from Standards

None.

6.6 Abnormalities from Standard Conditions

None.

6.7 Other Information Requested by the Customer

None.

6.8 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.5dB (30MHz-1GHz)
		4.8dB (1GHz-12.75GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

7 Equipment List

RF test system					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	02-17-2020	02-16-2021
Signal Generator	Keysight	N5182B	MY53051549	02-17-2020	02-16-2021
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-29-2020	06-28-2021
High-pass filter	Sinoscite	FL3CX03WG18NM 12-0398-002	---	---	---
High-pass filter	MICRO- TRONICS	SPA-F-63029-4	---	---	---
DC Power	Keysight	E3642A	MY56376072	02-17-2020	02-16-2021
PC-1	Lenovo	R4960d	---	---	---
BT&WI-FI Automatic control	R&S	OSP120	101374	02-17-2020	02-16-2021
RF control unit	JS Tonscend	JS0806-2	158060006	02-17-2020	02-16-2021
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	---	---	---

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Receiver	R&S	ESCI	100435	04-28-2020	04-27-2021
Temperature/ Humidity Indicator	Defu	TH128	/	---	---
LISN	R&S	ENV216	100098	03-05-2020	03-04-2021
Barometer	changchun	DYM3	1188	---	---

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-05-2020	03-04-2021
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-25-2018	04-24-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-25-2018	04-24-2021
Horn Antenna	ETS-LINDGREN	3117	00057407	07-10-2018	07-09-2021
Preamplifier	EMCI	EMC184055SE	980596	05-20-2020	05-19-2021
Preamplifier	EMCI	EMC001330	980563	04-22-2020	04-21-2021
Preamplifier	JS Tonscend	980380	EMC051845SE	01-09-2020	01-08-2021
Temperature/Humidity Indicator	biaozhi	GM1360	EE1186631	04-27-2020	04-26-2021
Fully Anechoic Chamber	TDK	FAC-3	---	01-17-2018	01-16-2021
Filter bank	JS Tonscend	JS0806-F	188060094	04-10-2018	04-09-2021
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05-24-2019	05-23-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	05-16-2020	05-15-2021
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-25-2018	04-24-2021
Receiver	R&S	ESCI7	100938-003	10-21-2019	10-20-2020
Multi device Controller	maturo	NCD/070/10711 112	---	---	---
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	06-29-2020	06-28-2021
Cable line	Fulai(7M)	SF106	5219/6A	---	---
Cable line	Fulai(6M)	SF106	5220/6A	---	---
Cable line	Fulai(3M)	SF106	5216/6A	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---

8 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title
1	FCC Part15E	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
3	KDB789033 D02 General UNII Test Procedures New Rules v02r01	Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) device part 15 subpart E

Test Results List:

Test Requirement	Test method	Test item	Verdict	Note
Part15E Section 15.407 (a)(1)(2)	KDB789033 D02 v02r01	26dB Occupied Bandwidth	PASS	Appendix A)
Part15E Section 15.407 (a)(1)(2)(4)(h)(1)	KDB789033 D02 v02r01	Conducted Output Power and transmit power control mechanism	PASS	Appendix B)
Part15E Section 15.407 (a)(1)(2)(5)	KDB789033 D02 v02r01	Power Spectral Density	PASS	Appendix C)
47 CFR Part 15 Subpart E Section 15.407(b)(1)to(6)	KDB789033 D02 v02r01	Conducted Band-edge Measurements	PASS	Appendix D)
Part15E Section 15.407 (a)(6)	KDB789033 D02 v02r01	Peak power excursion	N/A	N/A
Part15E Section 15.407 (g)	KDB789033 D02 v02r01	Frequency stability	PASS	Appendix E)
Part15C Section 15.203	ANSI C63.10	Antenna Requirement	N/A	Appendix F)
Part15E Section 15.407 (c)	Section 15.407	Operation in the absence of information to the transmit	PASS	Appendix G)
Part15E Section 15.407 (b)(6)(7)(8)	KDB789033 D02 v02r01	Restricted bands around fundamental frequency (Radiated Emission)	N/A	N/A
Part15E Section 15.407 (b)(6)	ANSI C63.10	AC Power Line Conducted Emission	PASS	Appendix H)
Part15E Section 15.407 (b)(6)(7)(8)	KDB789033 D02 v02r01	Unwanted Emissions in the Restricted Bands	PASS	Appendix I)
Part15E Section 15.407 (b)(1)(2)(3)(5)	KDB789033 D02 v02r01	Unwanted Emissions that fall Outside of the Restricted Bands	PASS	Appendix J)

Duty Cycle

ANT1			
Test Mode	Channel	Duty Cycle[%]	Verdict
11A	5180	92.88	PASS
11A	5200	92.88	PASS
11A	5240	93.05	PASS
11A	5745	93.05	PASS
11A	5785	93.05	PASS
11A	5825	93.03	PASS
11N20SISO	5180	92.61	PASS
11N20SISO	5200	92.59	PASS
11N20SISO	5240	92.61	PASS
11N20SISO	5745	92.59	PASS
11N20SISO	5785	92.59	PASS
11N20SISO	5825	92.59	PASS
11N40SISO	5190	86.09	PASS
11N40SISO	5230	86.09	PASS
11N40SISO	5755	86.09	PASS
11N40SISO	5795	86.09	PASS
11AC20SISO	5180	92.64	PASS
11AC20SISO	5200	92.63	PASS
11AC20SISO	5240	92.64	PASS
11AC20SISO	5745	92.63	PASS
11AC20SISO	5785	92.47	PASS
11AC20SISO	5825	92.64	PASS
11AC40SISO	5190	86.18	PASS
11AC40SISO	5230	86.18	PASS
11AC40SISO	5755	86.14	PASS
11AC40SISO	5795	86.18	PASS
11AC80SISO	5210	75.44	PASS
11AC80SISO	5775	75.44	PASS

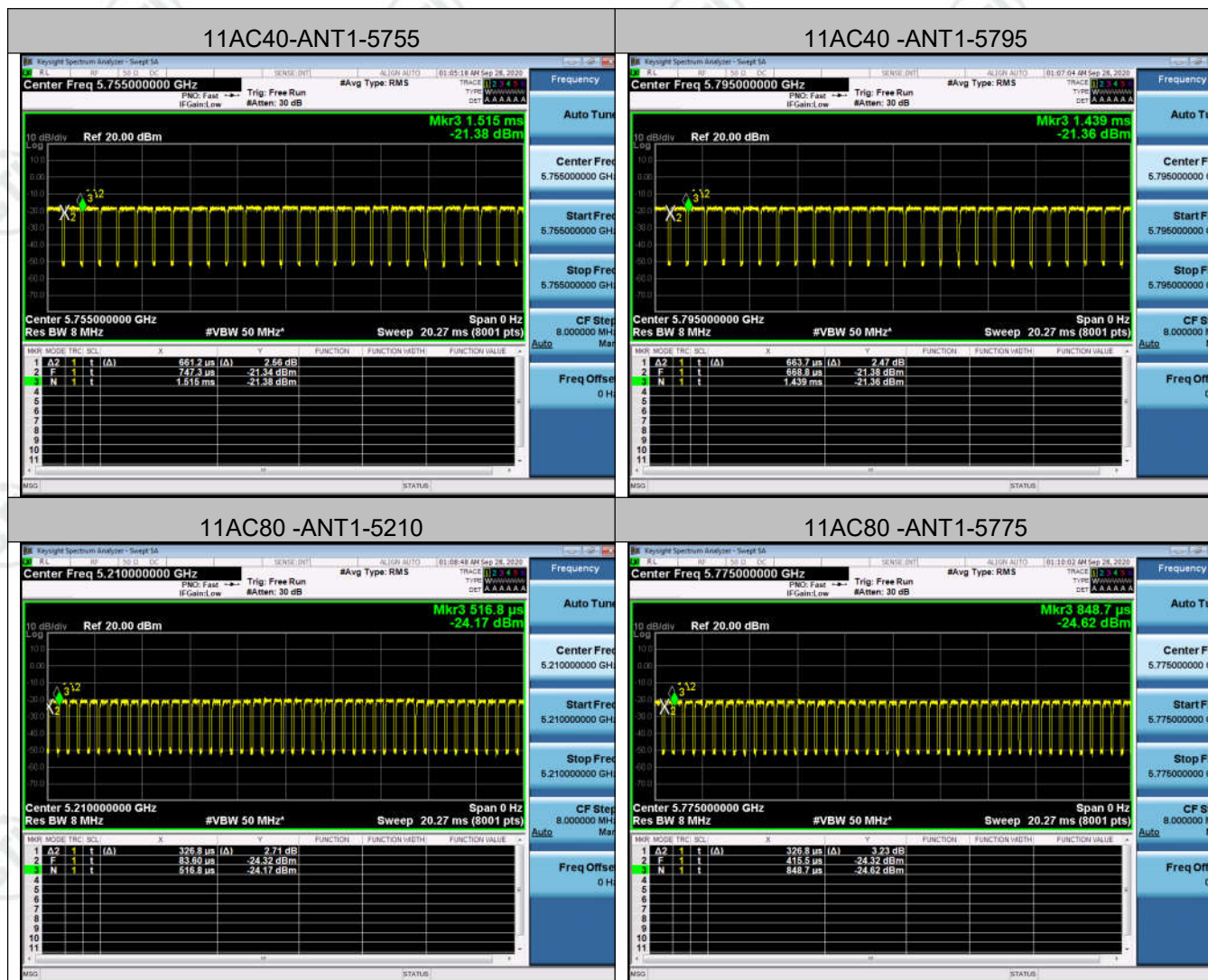
Duty Cycle Test Graph











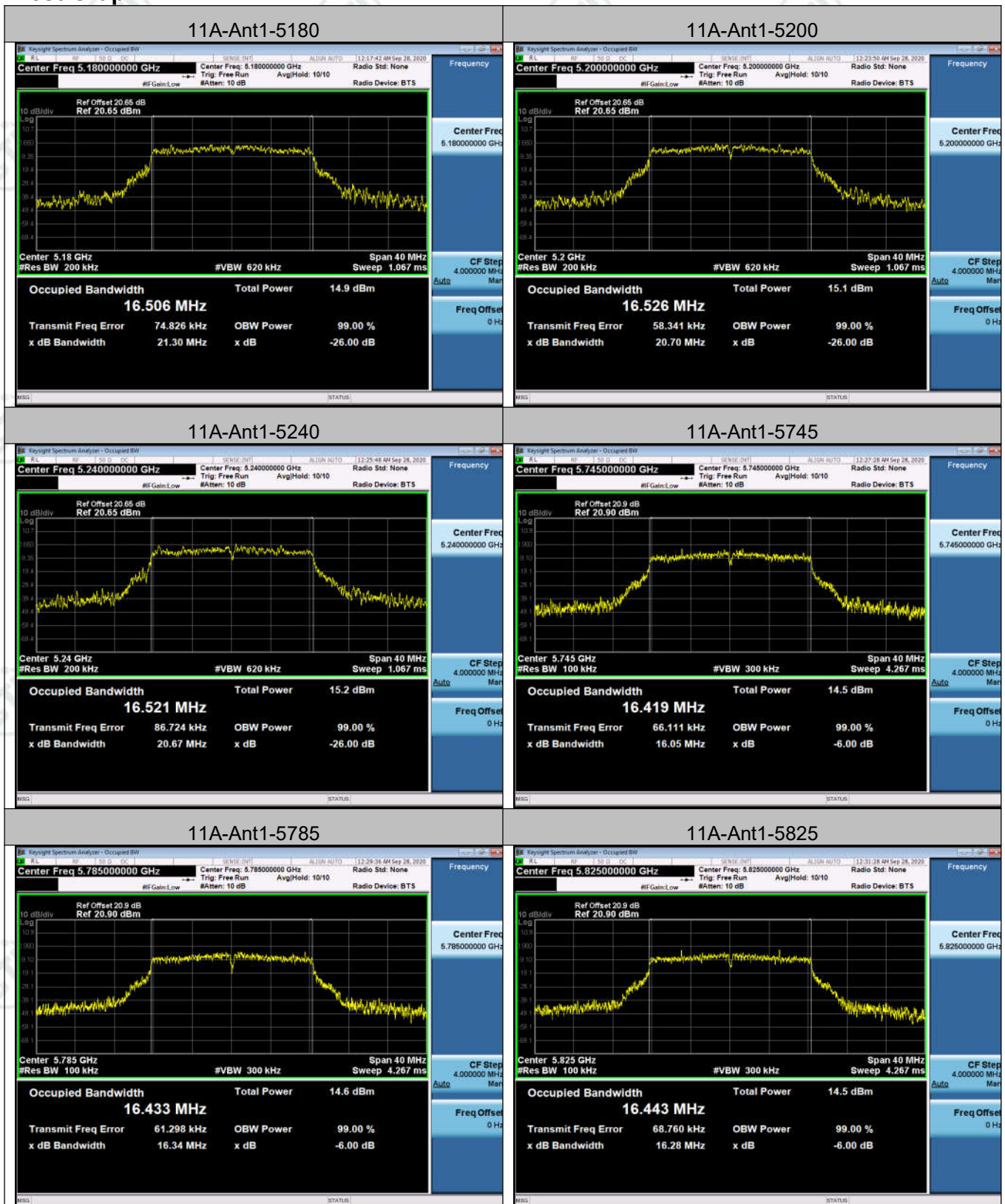
Appendix A): Emission Bandwidth

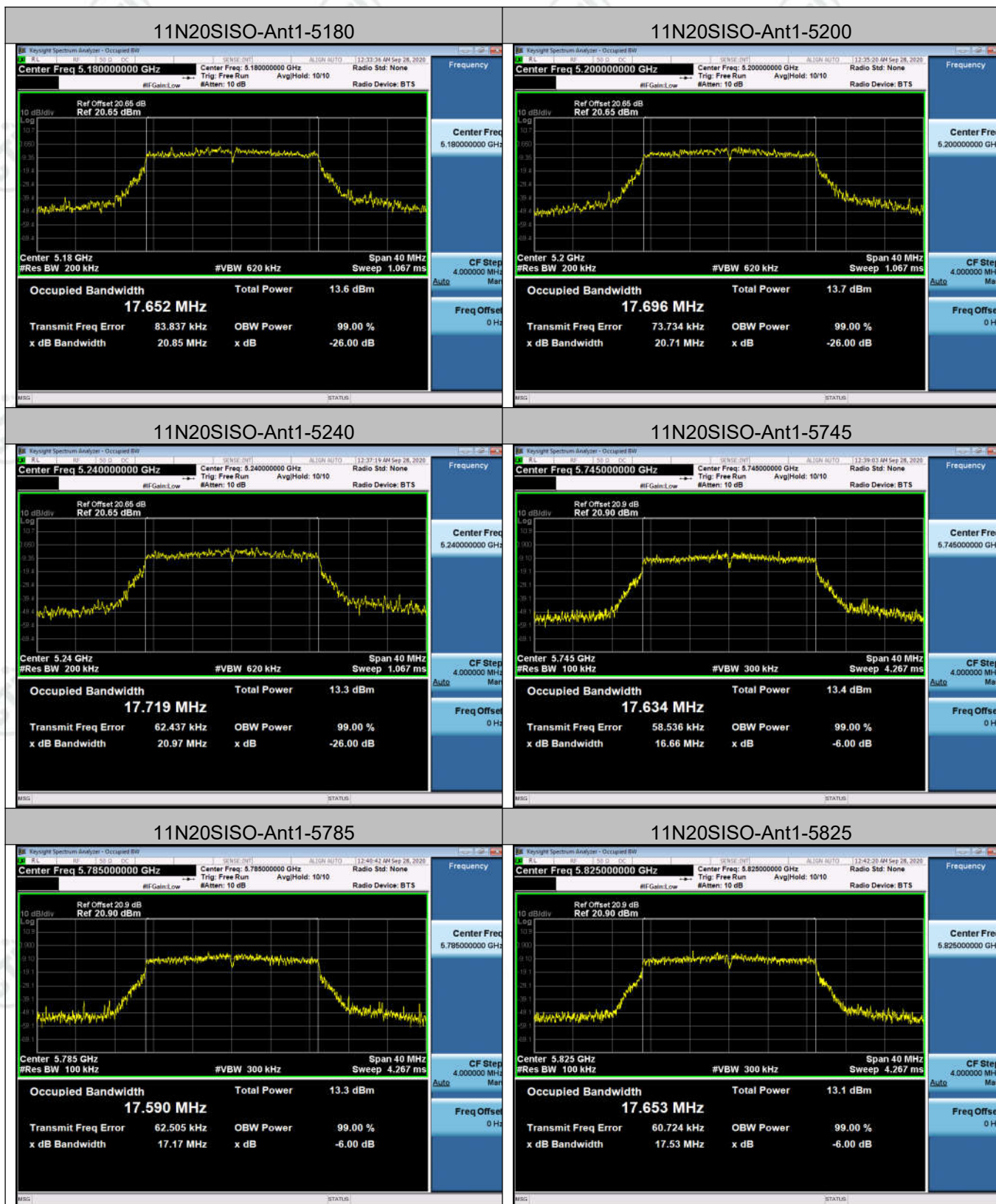
Result Table

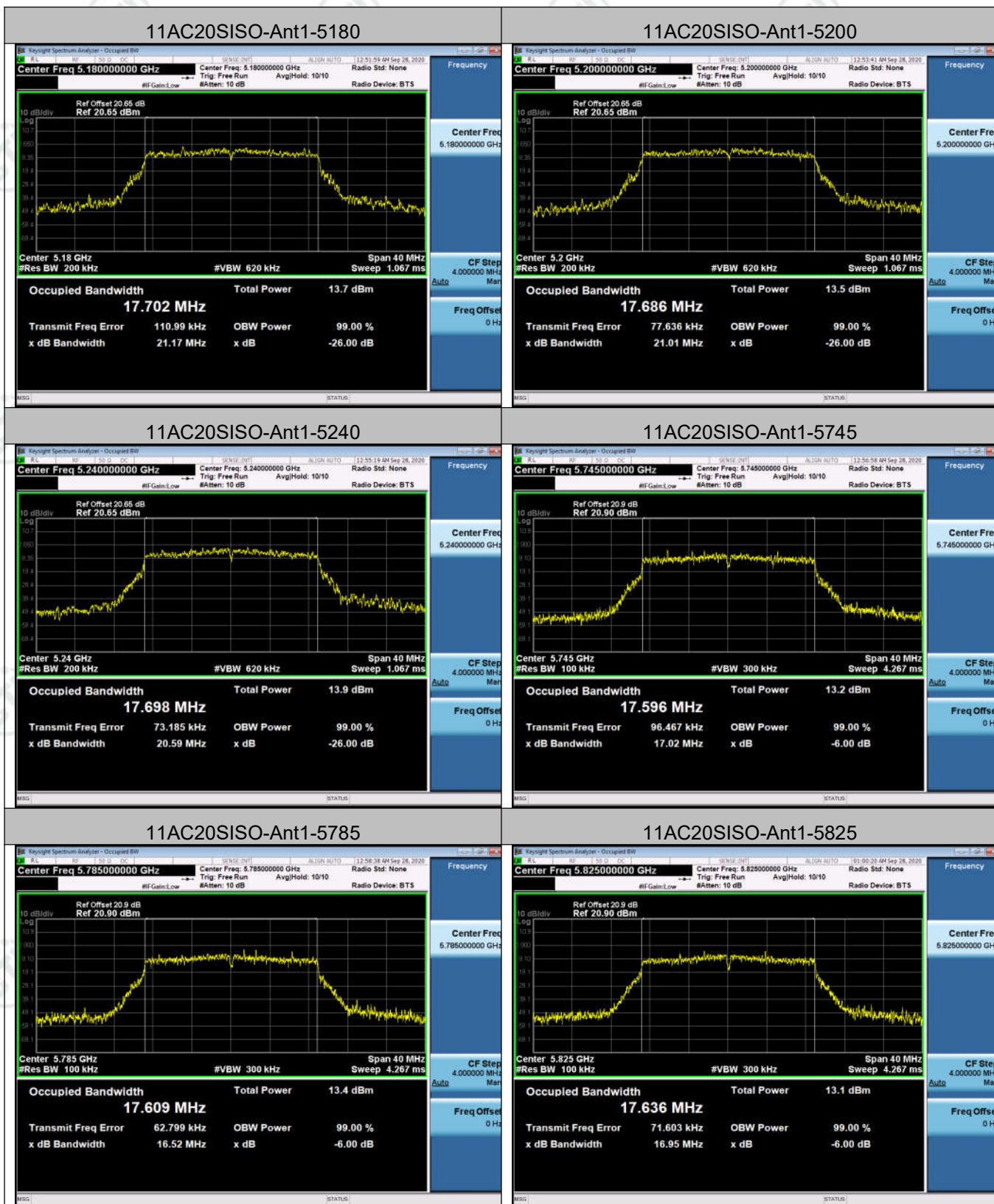
Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11A	Ant1	5180	21.30	16.506	PASS
11A	Ant1	5200	20.70	16.526	PASS
11A	Ant1	5240	20.67	16.521	PASS
11A	Ant1	5745	16.05	16.419	PASS
11A	Ant1	5785	16.34	16.433	PASS
11A	Ant1	5825	16.28	16.443	PASS
11N20SISO	Ant1	5180	20.85	17.652	PASS
11N20SISO	Ant1	5200	20.71	17.696	PASS
11N20SISO	Ant1	5240	20.97	17.719	PASS
11N20SISO	Ant1	5745	16.66	17.634	PASS
11N20SISO	Ant1	5785	17.17	17.590	PASS
11N20SISO	Ant1	5825	17.53	17.653	PASS
11AC20SISO	Ant1	5180	21.17	17.702	PASS
11AC20SISO	Ant1	5200	21.01	17.686	PASS
11AC20SISO	Ant1	5240	20.59	17.698	PASS
11AC20SISO	Ant1	5745	17.02	17.596	PASS
11AC20SISO	Ant1	5785	16.52	17.609	PASS
11AC20SISO	Ant1	5825	16.95	17.636	PASS
11N40SISO	Ant1	5190	38.87	36.049	PASS
11N40SISO	Ant1	5230	39.38	36.106	PASS
11N40SISO	Ant1	5755	34.89	36.128	PASS
11N40SISO	Ant1	5795	34.19	36.086	PASS
11AC40SISO	Ant1	5190	39.18	36.032	PASS
11AC40SISO	Ant1	5230	39.04	36.143	PASS
11AC40SISO	Ant1	5755	35.03	36.142	PASS
11AC40SISO	Ant1	5795	35.02	36.073	PASS

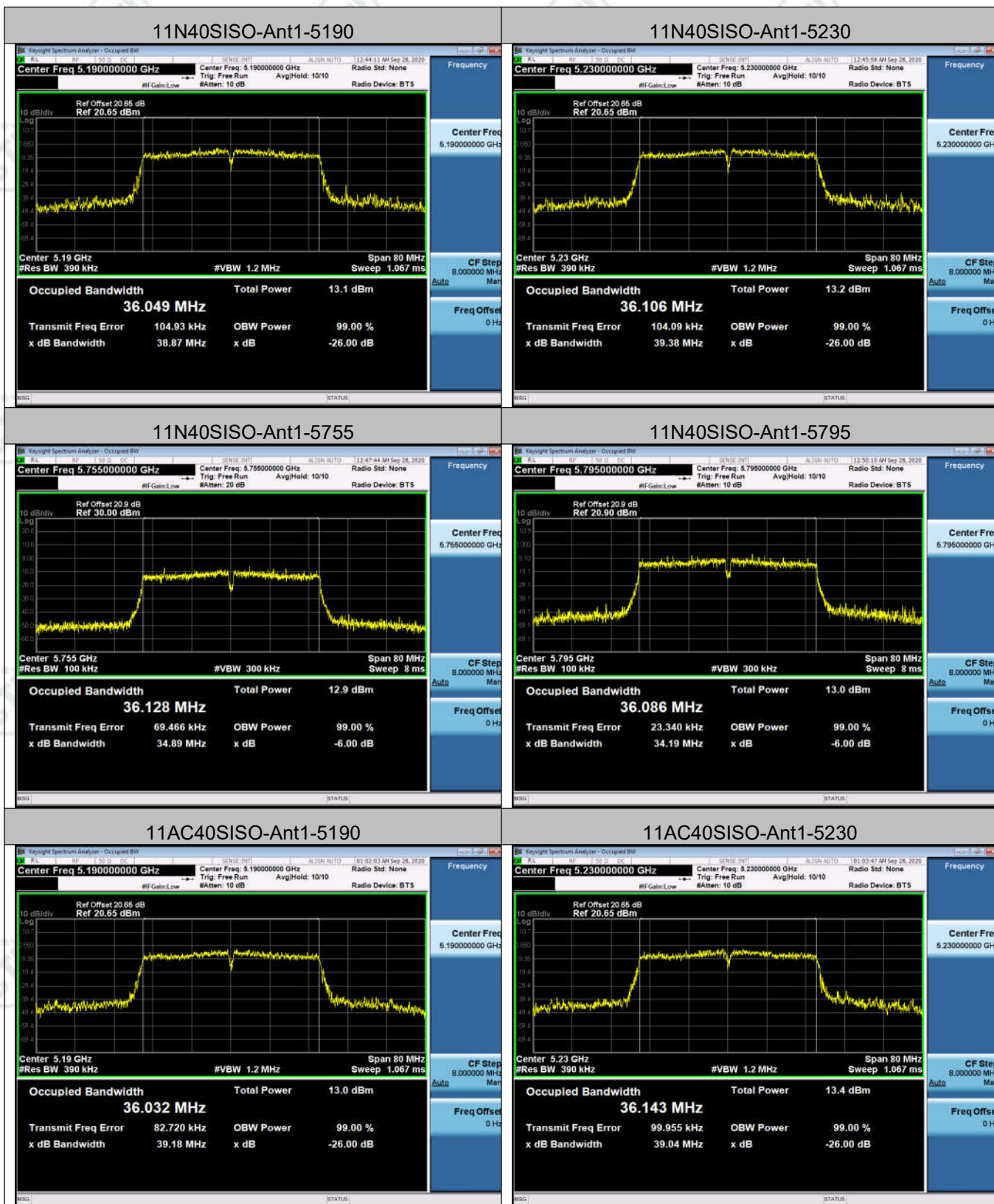
Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11AC80SISO	Ant1	5210	79.98	75.463	PASS
11AC80SISO	Ant1	5775	73.94	75.490	PASS

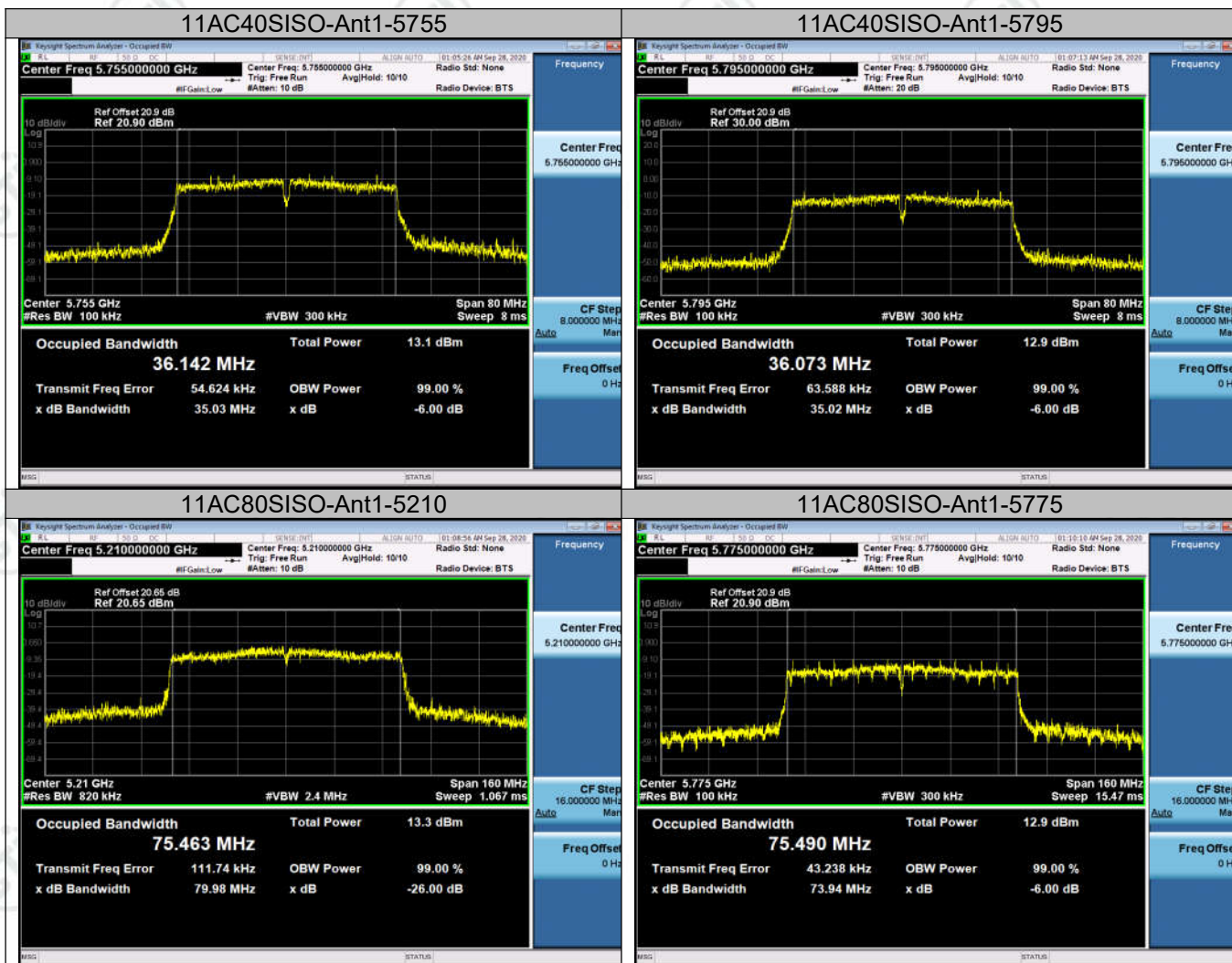
Test Graph







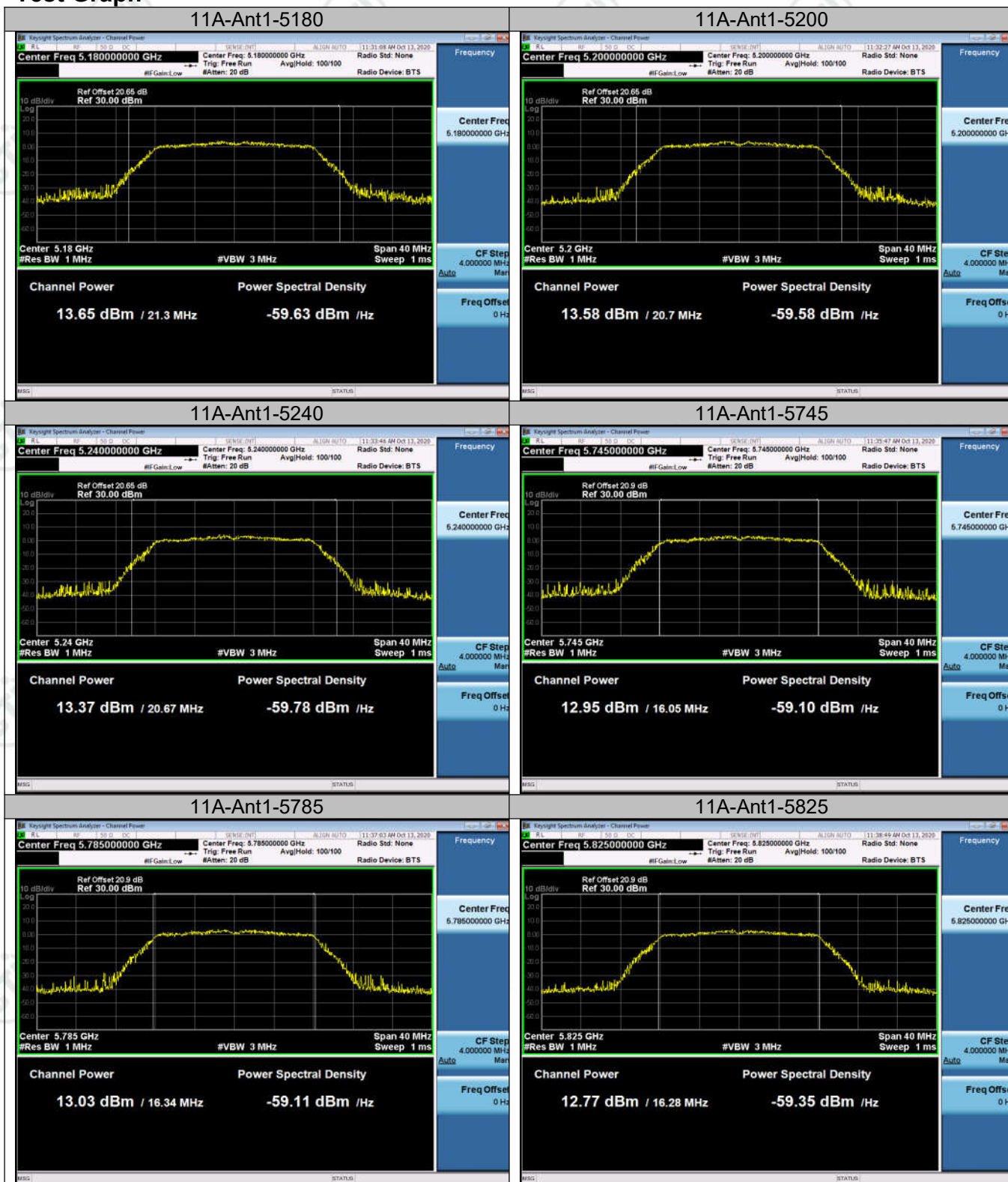


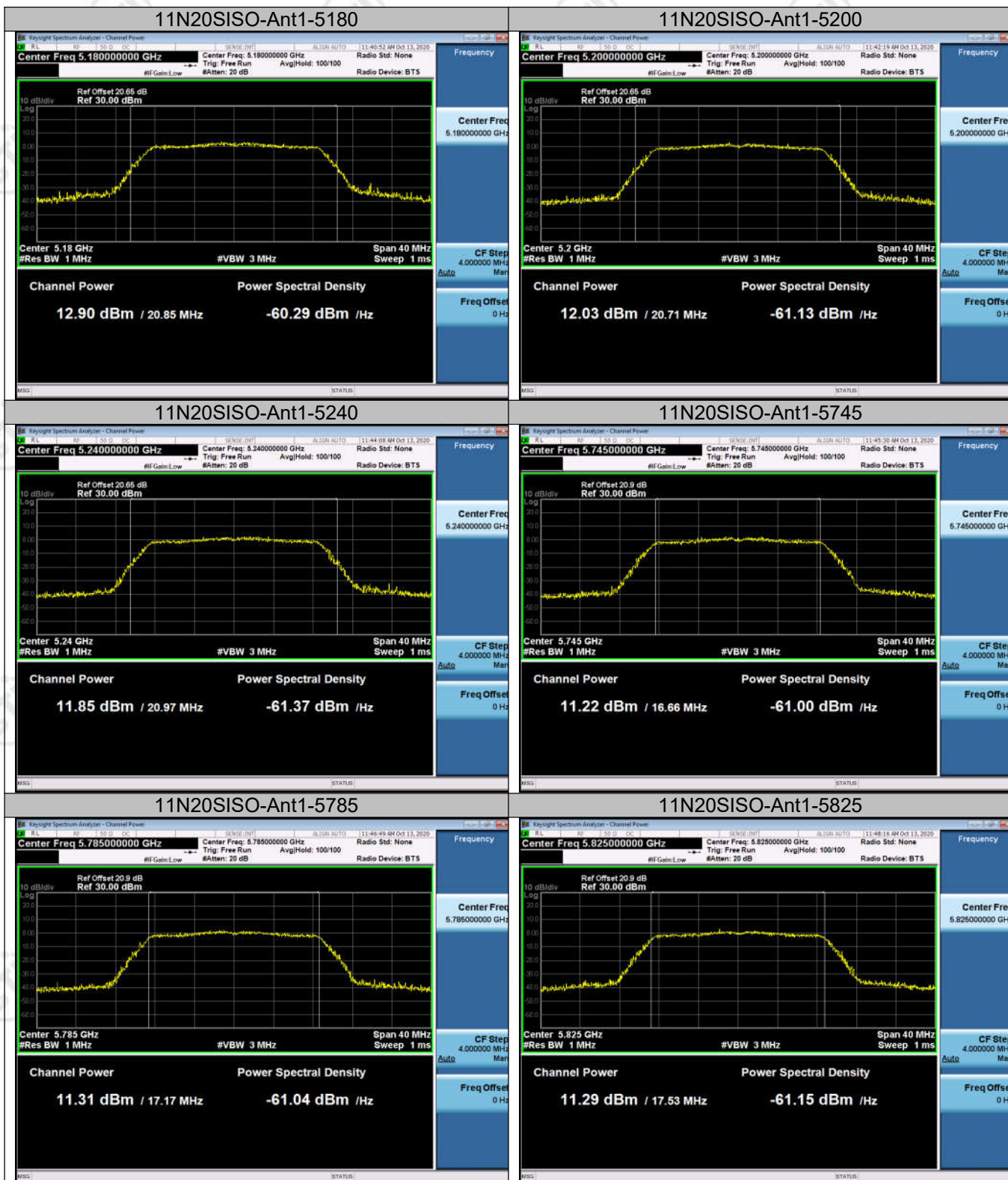


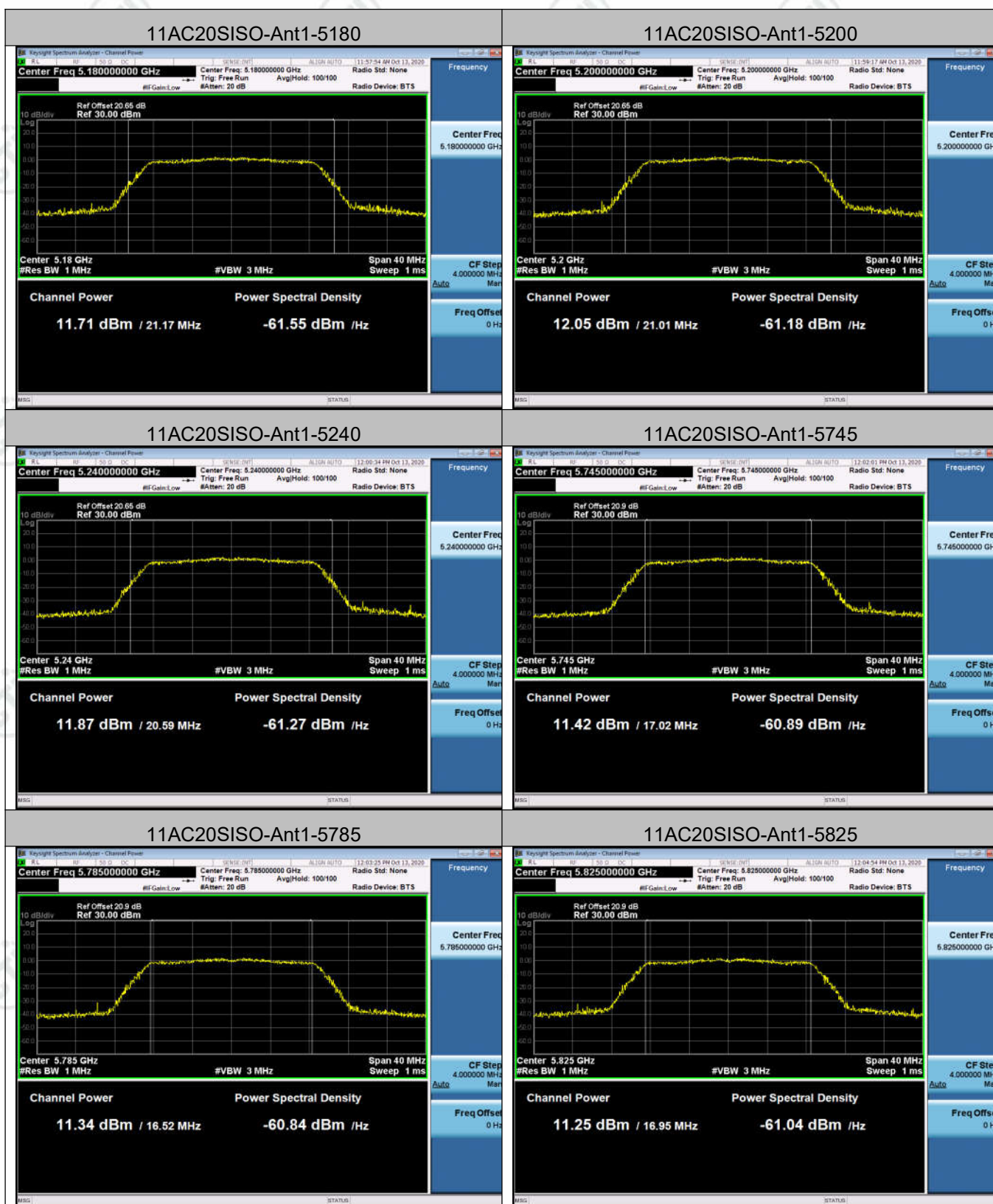
Appendix B): Maximum Conduct Output Power Result Table

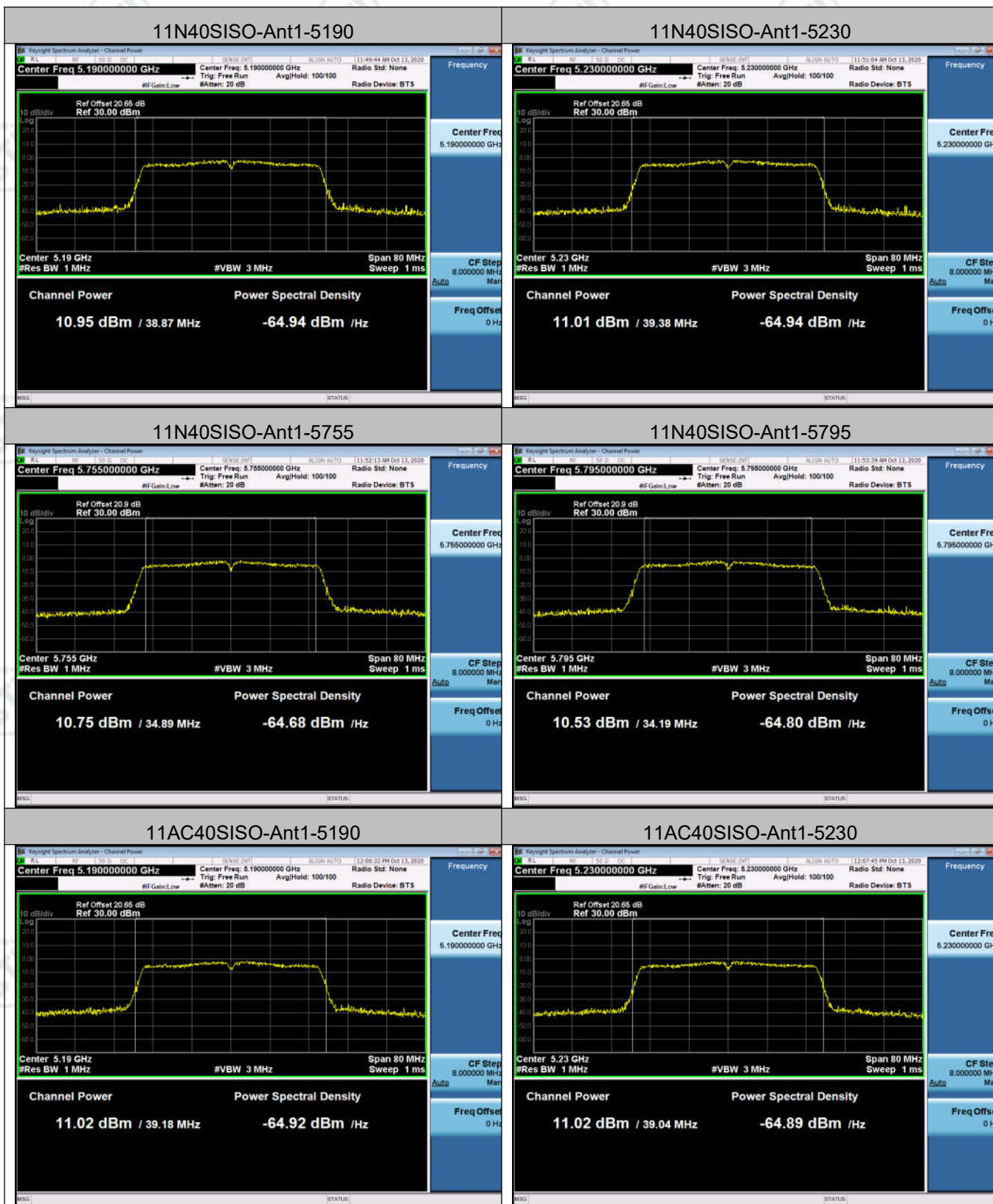
Test Mode	Antenna	Channel	Meas.Level [dBm]	Av.Power [dBm]	Verdict
11A	Ant1	5180	13.65	13.97	PASS
11A	Ant1	5200	13.58	13.9	PASS
11A	Ant1	5240	13.37	13.68	PASS
11A	Ant1	5745	12.95	13.26	PASS
11A	Ant1	5785	13.03	13.34	PASS
11A	Ant1	5825	12.77	13.08	PASS
11N20SISO	Ant1	5180	12.9	13.23	PASS
11N20SISO	Ant1	5200	12.03	12.36	PASS
11N20SISO	Ant1	5240	11.85	12.18	PASS
11N20SISO	Ant1	5745	11.22	11.55	PASS
11N20SISO	Ant1	5785	11.31	11.64	PASS
11N20SISO	Ant1	5825	11.29	11.62	PASS
11AC20SISO	Ant1	5180	11.71	12.04	PASS
11AC20SISO	Ant1	5200	12.05	12.38	PASS
11AC20SISO	Ant1	5240	11.87	12.2	PASS
11AC20SISO	Ant1	5745	11.42	11.75	PASS
11AC20SISO	Ant1	5785	11.34	11.68	PASS
11AC20SISO	Ant1	5825	11.25	11.58	PASS
11N40SISO	Ant1	5190	10.95	11.6	PASS
11N40SISO	Ant1	5230	11.01	11.66	PASS
11N40SISO	Ant1	5755	10.75	11.4	PASS
11N40SISO	Ant1	5795	10.53	11.18	PASS
11AC40SISO	Ant1	5190	11.02	11.67	PASS
11AC40SISO	Ant1	5230	11.02	11.67	PASS
11AC40SISO	Ant1	5755	10.9	11.55	PASS
11AC40SISO	Ant1	5795	10.9	11.55	PASS
11AC80SISO	Ant1	5210	4.97	6.19	PASS
11AC80SISO	Ant1	5775	4.79	6.01	PASS

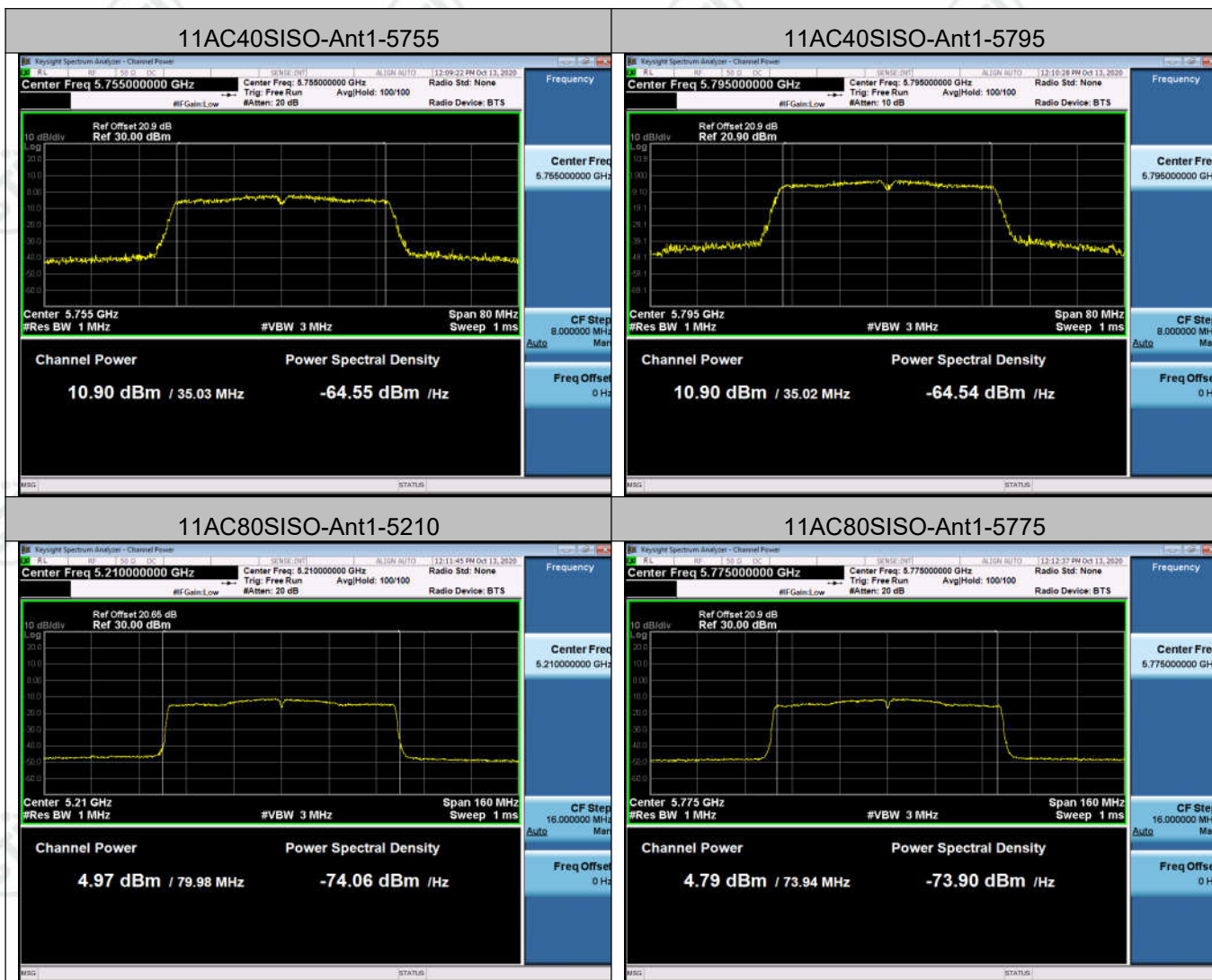
Test Graph











Appendix C): Power Spectral Density

Result Table

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11A	Ant1	5180	6.74	7.06	PASS
11A	Ant1	5200	6.72	7.04	PASS
11A	Ant1	5240	6.58	6.89	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11A	Ant1	5745	3.62	3.93	PASS
11A	Ant1	5785	3.10	3.41	PASS
11A	Ant1	5825	2.74	3.06	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N20SISO	Ant1	5180	5.80	6.14	PASS
11N20SISO	Ant1	5200	5.14	5.47	PASS
11N20SISO	Ant1	5240	5.26	5.59	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N20SISO	Ant1	5745	1.08	1.41	PASS
11N20SISO	Ant1	5785	1.57	1.91	PASS
11N20SISO	Ant1	5825	1.09	1.42	PASS

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N40SISO	Ant1	5190	1.04	1.69	PASS
11N40SISO	Ant1	5230	1.11	1.76	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N40SISO	Ant1	5755	-1.47	-0.82	PASS
11N40SISO	Ant1	5795	-2.24	-1.59	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC20SISO	Ant1	5180	4.86	5.19	PASS
11AC20SISO	Ant1	5200	5.22	5.56	PASS
11AC20SISO	Ant1	5240	4.91	5.24	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC20SISO	Ant1	5745	1.47	1.81	PASS
11AC20SISO	Ant1	5785	1.35	1.69	PASS
11AC20SISO	Ant1	5825	0.81	1.14	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC40SISO	Ant1	5190	1.59	2.24	PASS
11AC40SISO	Ant1	5230	1.28	1.92	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC40SISO	Ant1	5755	-1.52	-0.88	PASS
11AC40SISO	Ant1	5795	-2.08	-1.44	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC80SISO	Ant1	5210	-1.89	-0.67	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC80SISO	Ant1	5775	-6.64	-5.42	PASS

Test Graph

