

TEST REPORT

Product : 10 inch WIFI Digital Photo Frame
Trade mark : N/A
Model/Type reference : Skylight 2, D104S
Serial Number : N/A
Report Number : EED32M00246402
FCC ID : 2AABK-SKYLIGHT2
Date of Issue : Sep. 08, 2020
Test Standards : 47 CFR Part 15 Subpart E
Test result : PASS

Prepared for:

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Date:

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Sep. 08, 2020



Sam Chuang

Check No.:3096322823

2 Version

Version No.	Date	Description
00	Dec. 19, 2018	Original
01	Aug. 14, 2019	Add an adapter
02	Sep. 10, 2020	Change the new motherboard, adapter, and data line to change color. Changed the Duty Cycle and Appendix B, Appendix H, Appendix I, Appendix J, Appendix K data. Other data comes from report No. EED32L00209702

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	PASS
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:

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

Model No.: Skylight 2, D104S

Only the model Skylight 2 was tested, Their electrical circuit design, layout, components used and internal writing are identical, Only the modes are different.

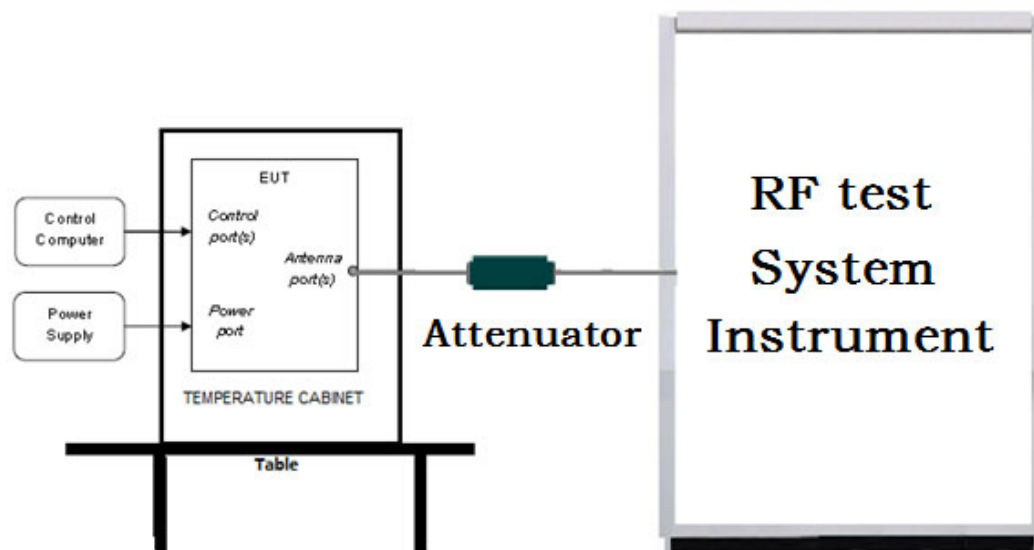
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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

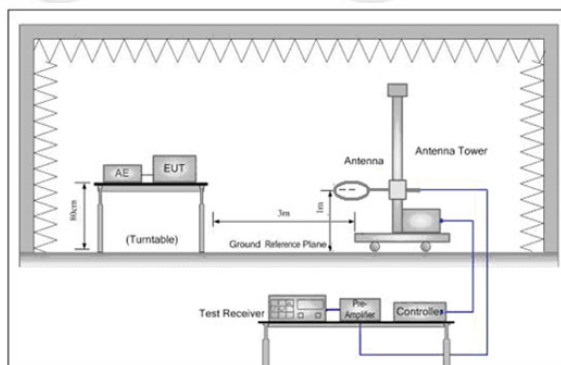


Figure 1. Below 30MHz

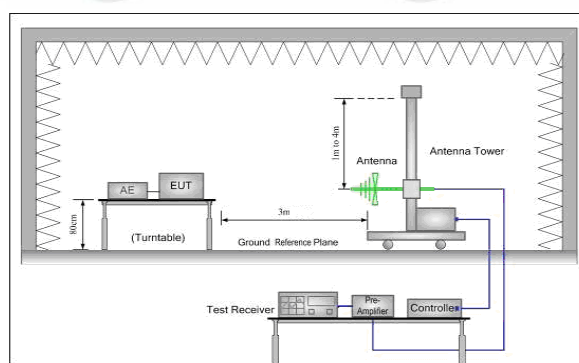


Figure 2. 30MHz to 1GHz

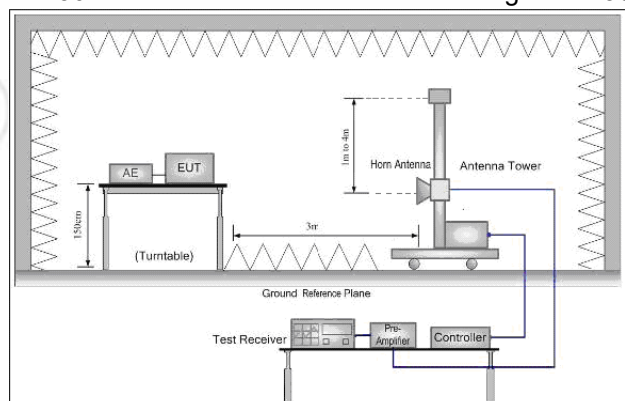
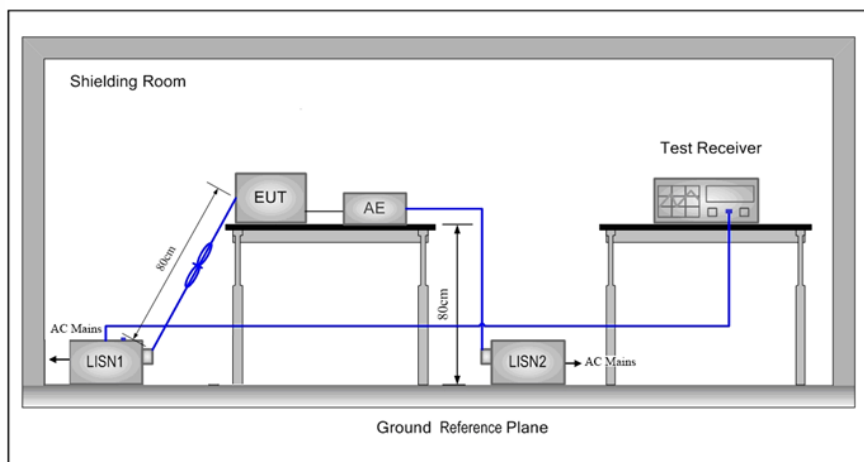


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup

Conducted Emissions setup



5.2 Test Environment

Operating Environment:	
Temperature:	24°C
Humidity:	54% RH
Atmospheric Pressure:	1010mbar

5.3 Test Condition

Test channel:

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(cm)	High(H)
802.11a/n/ac(HT20)	5150MHz ~5250 MHz	Channel 36	Channel 40	Channel 48
		5180MHz	5200MHz	5240MHz
802.11a/n/ac(HT20)	5250MHz ~5350 MHz	Channel 52	Channel 56	Channel 64
		5260MHz	5280MHz	5320MHz
802.11a/n/ac(HT20)	5470MHz ~5600 MHz	Channel 100	Channel108	Channel116
		5500MHz	5600MHz	5580MHz
802.11a/n/ac(HT20)	5650MHz ~5725 MHz	Channel 132	Channel136	Channel140
		5660MHz	5680MHz	5700MHz
802.11a/n/ac(HT20)	5725MHz ~5850 MHz	Channel 149	Channel157	Channel165
		5745MHz	5785MHz	5825MHz
802.11n/ac(HT40)	5150MHz ~5250 MHz	Channel 38	N/A	Channel 46
		5190MHz	N/A	5230MHz
802.11n/ac(HT40)	5250MHz ~5350 MHz	Channel54	N/A	Channel62
		5270MHz	N/A	5310MHz
802.11n/ac(HT40)	5470MHz ~5600 MHz	Channel 102	N/A	Channel 110
		5510MHz	N/A	5550MHz
802.11n/ac(HT40)	5650MHz ~5725 MHz	Channel 134	N/A	N/A
		5670MHz	N/A	N/A
802.11n/ac(HT40)	5725MHz ~5850 MHz	Channel 151	N/A	Channel 159
		5755MHz	N/A	5795MHz
802.11ac(HT80)	5150MHz ~5250 MHz	Channel 42	N/A	N/A
		5210MHz	N/A	N/A
802.11ac(HT80)	5250MHz ~5350 MHz	Channel58	N/A	N/A
		5290MHz	N/A	N/A
802.11ac(HT80)	5470MHz ~5600 MHz	Channel 106	N/A	N/A
		5530MHz	N/A	N/A
802.11ac(HT80)	5725MHz ~5850 MHz	Channel 155	N/A	N/A
		5775MHz	N/A	N/A

6 General Information

6.1 Client Information

Applicant:	Shenzhen Chuangwei Electronic Appliance Tech Co., Ltd.
Address of Applicant:	4F & 6F, Overseas plant south, Skyworth Industrial Park, Shiyan Street, Bao'an District, Shenzhen, P. R. China
Manufacturer:	Shenzhen Chuangwei Electronic Appliance Tech Co., Ltd.
Address of Manufacturer:	4F & 6F, Overseas plant south, Skyworth Industrial Park, Shiyan Street, Bao'an District, Shenzhen, P. R. China
Factory:	Shenzhen Chuangwei Electronic Appliance Tech Co., Ltd.
Address of Factory:	4F & 6F, Overseas plant south, Skyworth Industrial Park, Shiyan Street, Bao'an District, Shenzhen, P. R. China

6.2 General Description of EUT

Product Name:	10 inch WIFI Digital Photo Frame	
Model No.(EUT):	Skylight 2, D104S	
Test Model No.:	Skylight 2	
Trade Mark:	N/A	
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 & U-NII-2A: 5180-5320MHz U-NII-2C:5500-5700MHz U-NII-3:5745-5825MHz	
Test Power Grade:	Default	
Test Software of EUT:	RFTestTool	
Antenna Type:	Integral antenna	
Antenna Gain:	2dBi	
Power Supply:	AC Adapter	Model:S85A22 Input:100~240V~ 50/60Hz, 0.5A Output:5V---2A
Test voltage:	AC 120V, 60Hz	
Sample Received Date:	Aug. 14, 2020	
Sample tested Date:	Aug. 14, 2020 to Aug. 31, 2020	

Operation Frequency each of channel

802.11a/802.11n/802.11ac(20MHz) Frequency/Channel Operations:

U-NII-1		U-NII-2A		U-NII-2C		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	52	5260	100	5500	149	5745
40	5200	56	5280	104	5520	153	5765
44	5220	60	5300	108	5540	157	5785
48	5240	64	5320	112	5560	161	5805
-	-	-	-	116	5580	165	5825
-	-	-	-	120	5600	-	-
-	-	-	-	124	5620	-	-
-	-	-	-	128	5640	-	-
-	-	-	-	132	5660	-	-
-	-	-	-	136	5680	-	-
-	-	-	-	140	5700	-	-

802.11n/802.11ac(40MHz) Frequency/Channel Operations:

U-NII-1		U-NII-2A		U-NII-2C		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
38	5190	54	5270	102	5510	151	5755
46	5230	62	5310	110	5550	159	5795
-	-	-	-	118	5590	-	-
-	-	-	-	126	5630	-	-
-	-	-	-	134	5670	-	-

802.11ac(80MHz) Frequency/Channel Operations:

U-NII-1		U-NII-2A		U-NII-2C		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
42	5210	58	5290	106	5530	155	5775

6.3 Description of Support Units

The EUT has been tested with associated equipment below.

Associated equipment name		Manufacturer	Model	S/N serial number	Certification	Supplied by
AE1	Notebook	DELL	DELL 3490	D245DX2	CE & FCC	DELL

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	FL3CX03WG18N M12-0398-002	---	---	---
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 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/070/107 11112	---	---	---
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	---	---

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	EMC051845 SE	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	---	---

8 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title
1	FCC Part15E (2015)	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 v01	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)(4)(h)(1)	KDB789033 D02v01	Conducted Output Power and transmit power control mechanism	PASS	Appendix A)
Part15E Section 15.407 (a)(1)(2)	KDB789033 D02v01	26dB Occupied Bandwidth	PASS	Appendix B)
Part15E Section 15.407 (a)(1)(2)(5)	KDB789033 D02v01	Power Spectral Density	PASS	Appendix C)
Part15E Section 15.407 (a)(6)	KDB789033 D02v01	Peak power excursion	PASS	Appendix D)
Part15E Section 15.407 (g)	KDB789033 D02v01	Frequency stability	PASS	Appendix E)
Part15C Section 15.203	ANSI C63.10	Antenna Requirement	PASS	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)	ANSI C63.10	AC Power Line Conducted Emission	PASS	Appendix H)
Part15E Section 15.407 (b)(6)(7)(8)	KDB789033 D02v01	Restricted bands around fundamental frequency (Radiated Emission)	PASS	Appendix I)
Part15E Section 15.407 (b)(6)(7)(8)	KDB789033 D02v01	Unwanted Emissions in the Restricted Bands	PASS	Appendix J)
Part15E Section 15.407 (b)(1)(2)(3)(5)	KDB789033 D02v01	Unwanted Emissions that fall Outside of the Restricted Bands	PASS	Appendix K)

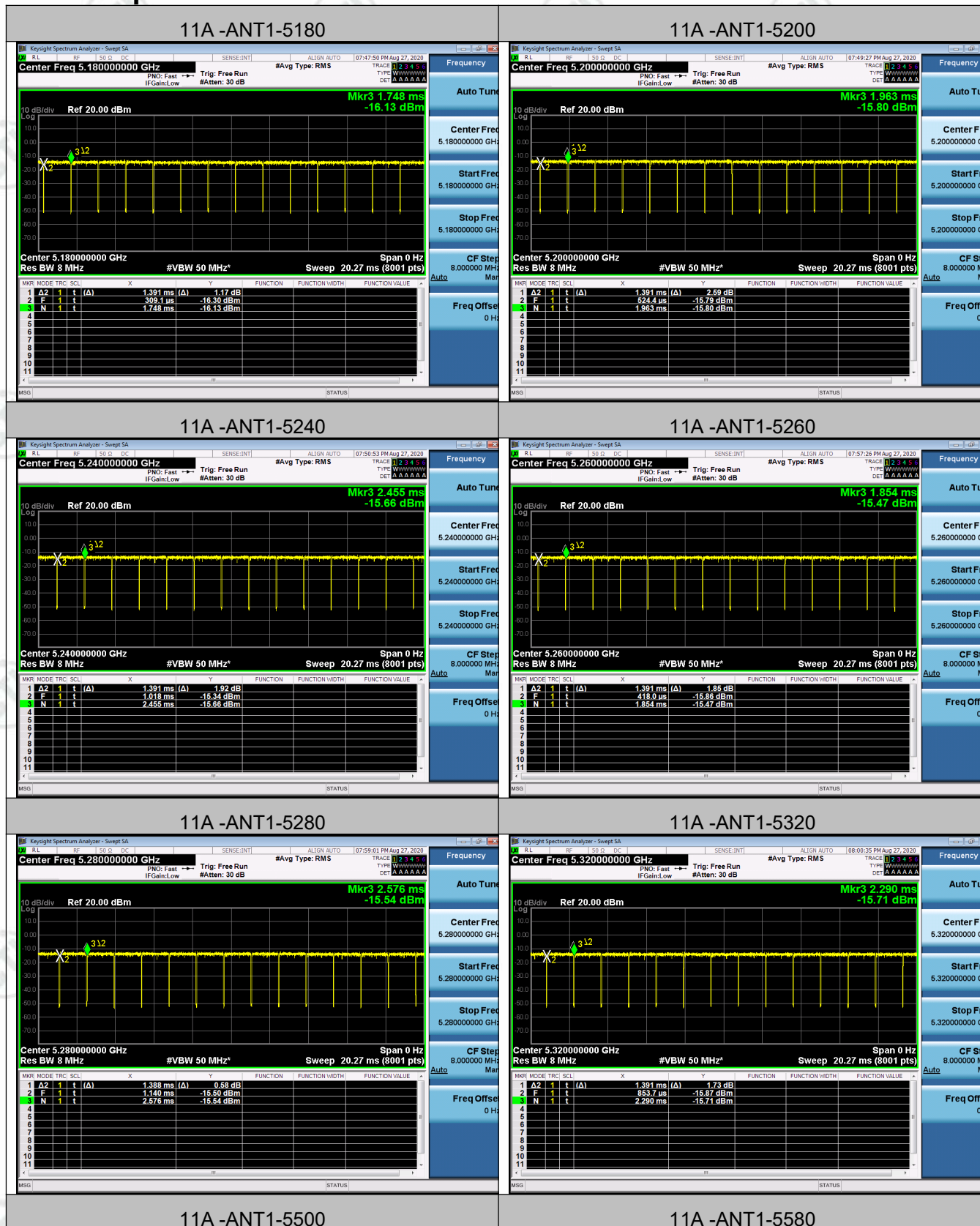
Duty Cycle

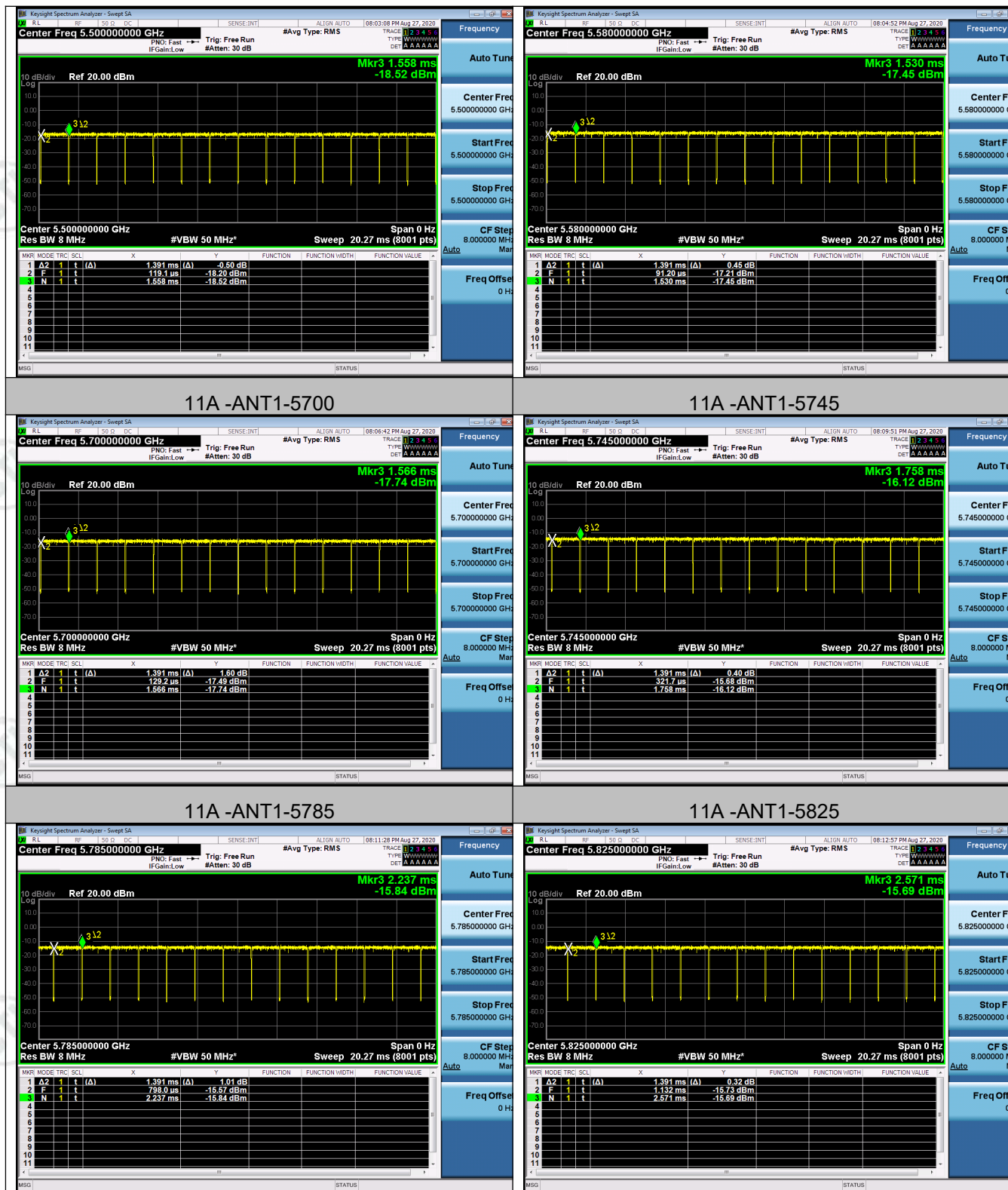
ANT1			
Test Mode	Channel	Duty Cycle[%]	Verdict
11A	5180	96.65	PASS
11A	5200	96.65	PASS
11A	5240	96.83	PASS
11A	5260	96.83	PASS
11A	5280	96.65	PASS
11A	5320	96.83	PASS
11A	5500	96.65	PASS
11A	5580	96.65	PASS
11A	5700	96.83	PASS
11A	5745	96.83	PASS
11A	5785	96.65	PASS
11A	5825	96.65	PASS
11N20SISO	5180	96.62	PASS
11N20SISO	5200	96.62	PASS
11N20SISO	5240	96.62	PASS
11N20SISO	5260	96.62	PASS
11N20SISO	5280	96.62	PASS
11N20SISO	5320	96.62	PASS
11N20SISO	5500	96.44	PASS
11N20SISO	5580	96.62	PASS
11N20SISO	5700	96.62	PASS
11N20SISO	5745	96.62	PASS
11N20SISO	5785	96.44	PASS
11N20SISO	5825	96.44	PASS
11N40SISO	5190	93.38	PASS
11N40SISO	5230	93.38	PASS
11N40SISO	5270	93.38	PASS
11N40SISO	5310	93.01	PASS
11N40SISO	5510	93.01	PASS

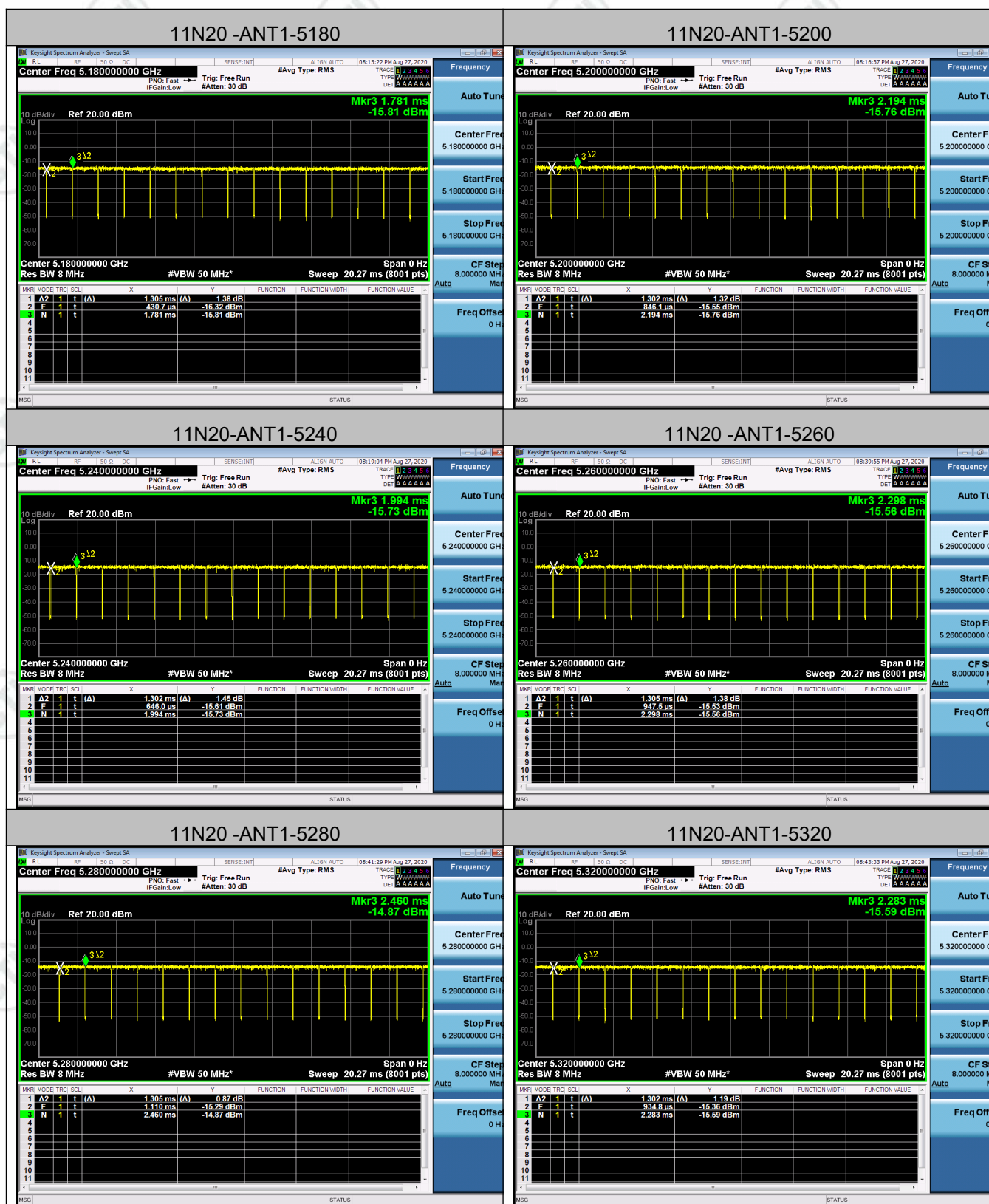
11N40SISO	5550	93.38	PASS
11N40SISO	5670	93.38	PASS
11N40SISO	5755	93.38	PASS
11N40SISO	5795	93.38	PASS
11AC20SISO	5180	96.64	PASS
11AC20SISO	5200	96.46	PASS
11AC20SISO	5240	96.64	PASS
11AC20SISO	5260	96.64	PASS
11AC20SISO	5280	96.64	PASS
11AC20SISO	5320	96.64	PASS
11AC20SISO	5500	96.46	PASS
11AC20SISO	5580	96.46	PASS
11AC20SISO	5700	96.64	PASS
11AC20SISO	5745	96.64	PASS
11AC20SISO	5785	96.64	PASS
11AC20SISO	5825	96.64	PASS
11AC40SISO	5190	93.09	PASS
11AC40SISO	5230	93.45	PASS
11AC40SISO	5270	93.12	PASS
11AC40SISO	5310	93.45	PASS
11AC40SISO	5510	93.45	PASS
11AC40SISO	5550	93.45	PASS
11AC40SISO	5670	93.45	PASS
11AC40SISO	5755	100	PASS
11AC40SISO	5795	93.45	PASS
11AC80SISO	5210	86.81	PASS
11AC80SISO	5290	87.5	PASS
11AC80SISO	5530	87.5	PASS
11AC80SISO	5775	87.5	PASS

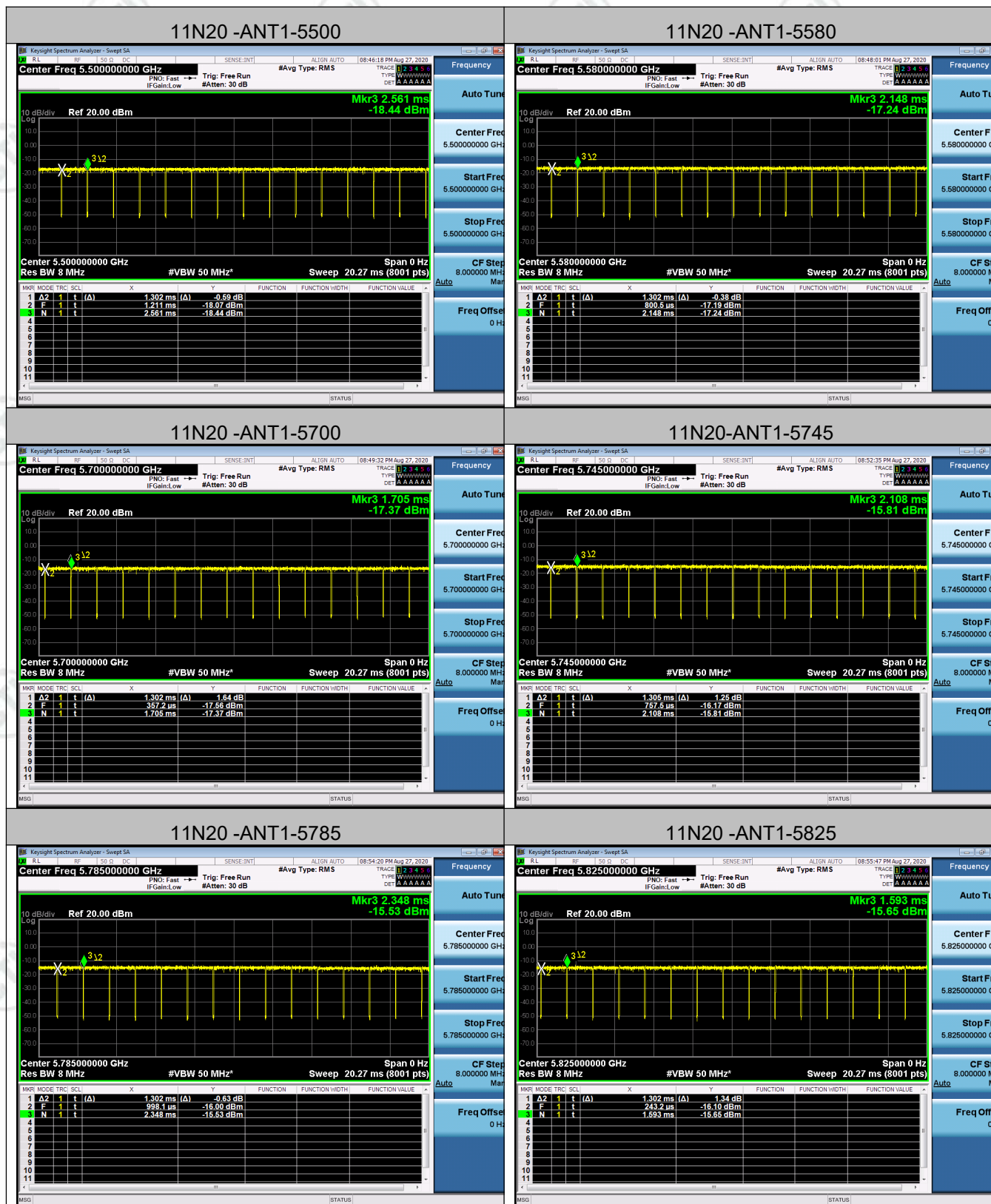
Duty Cycle

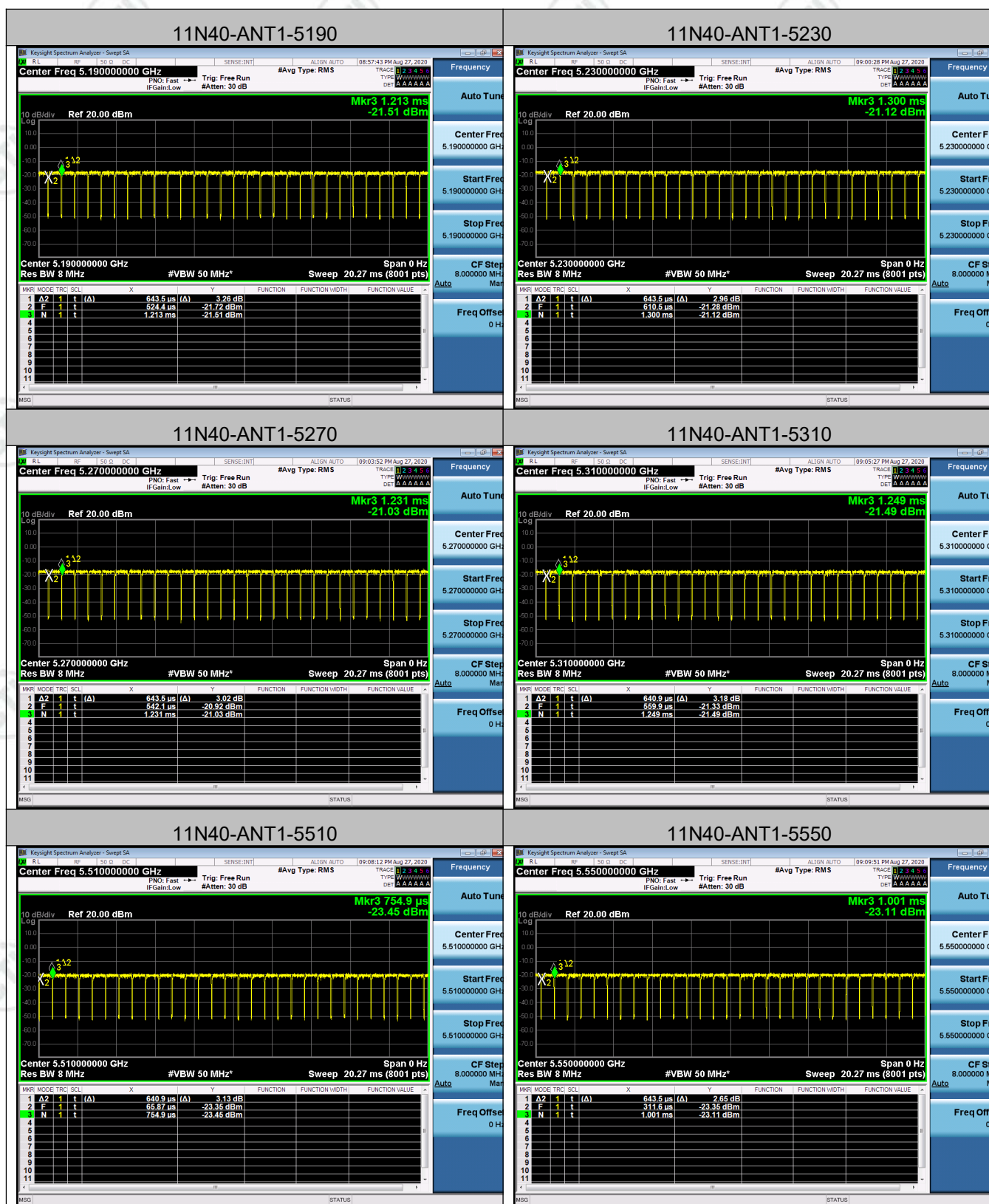
Test Graph

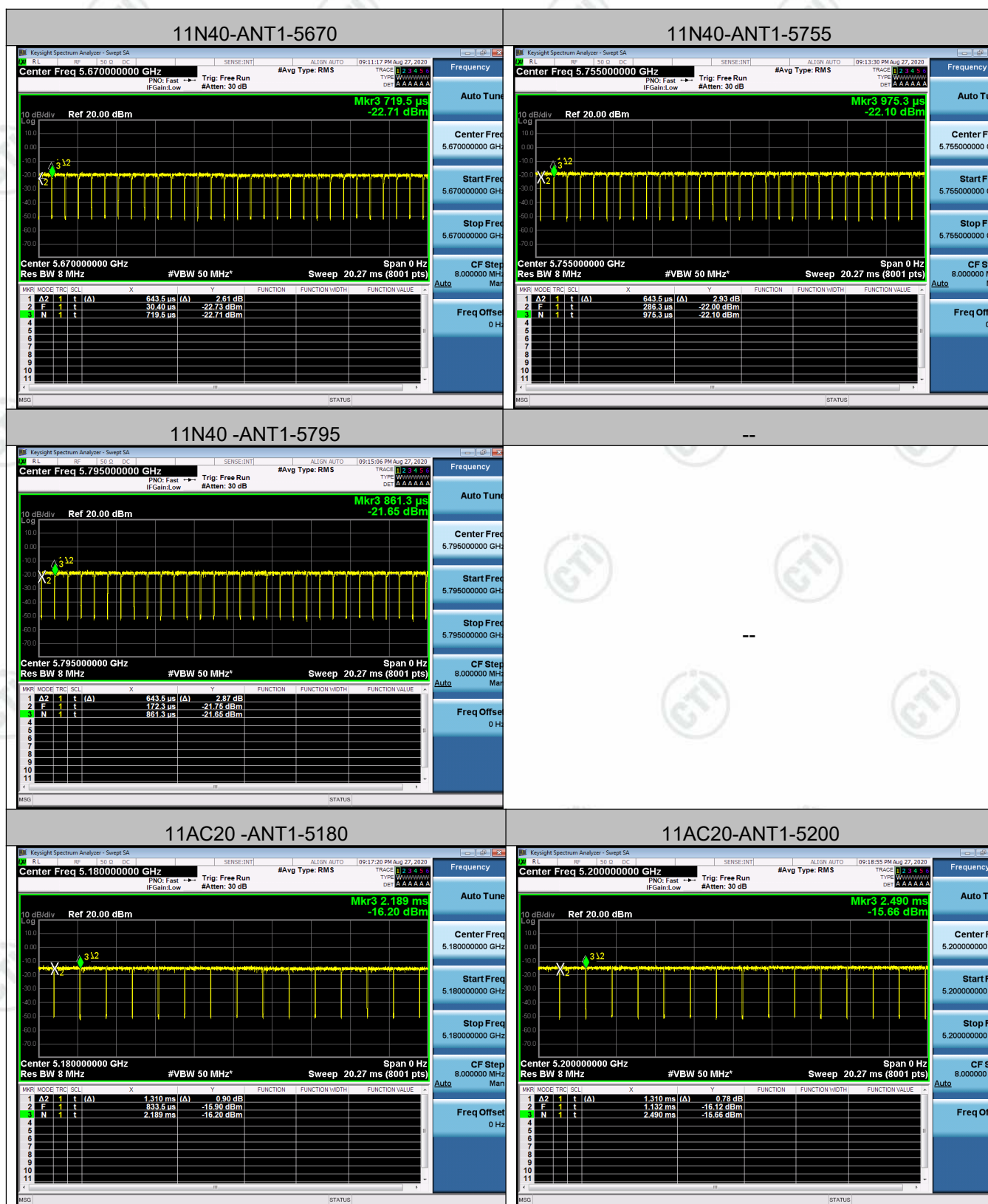


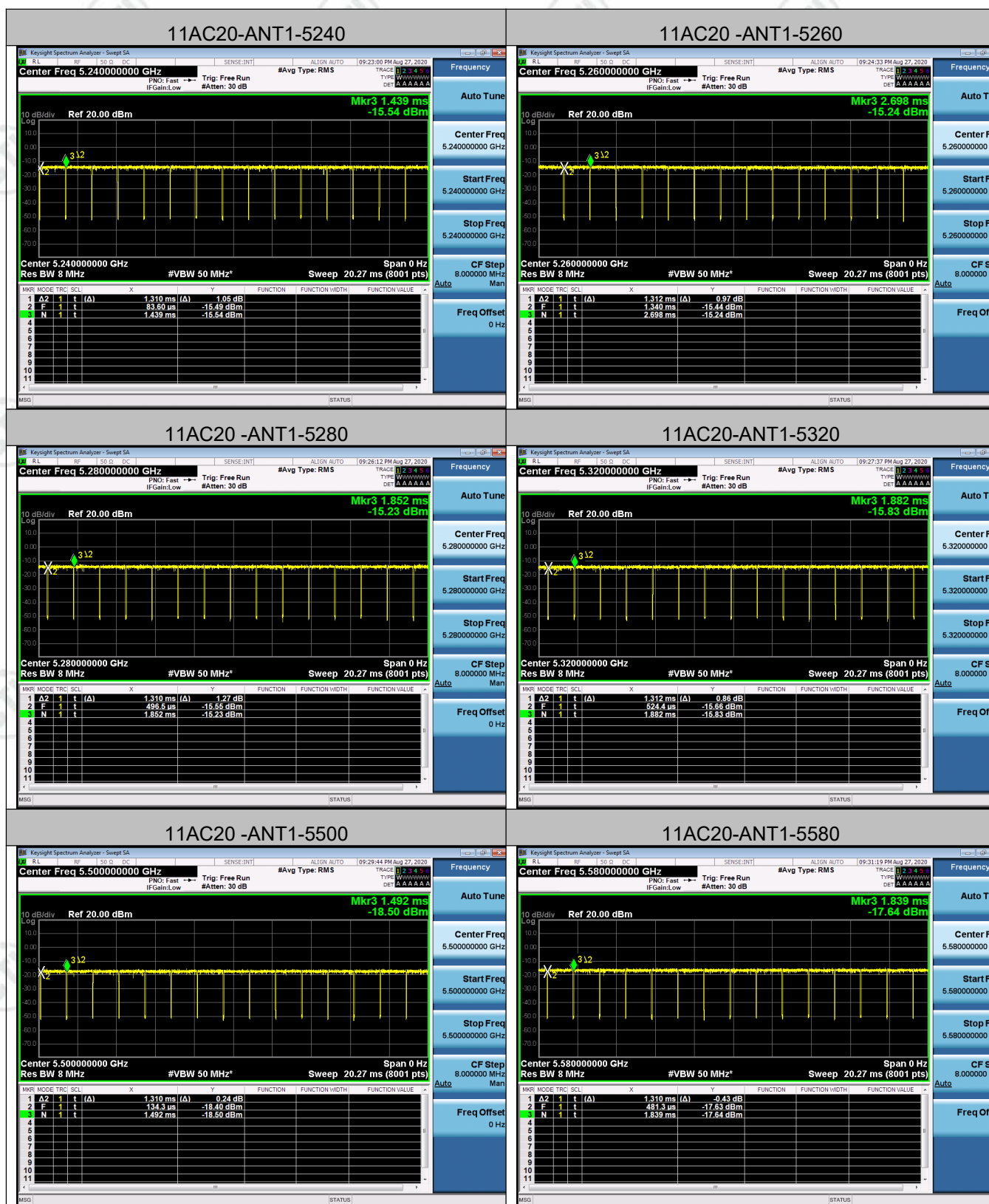


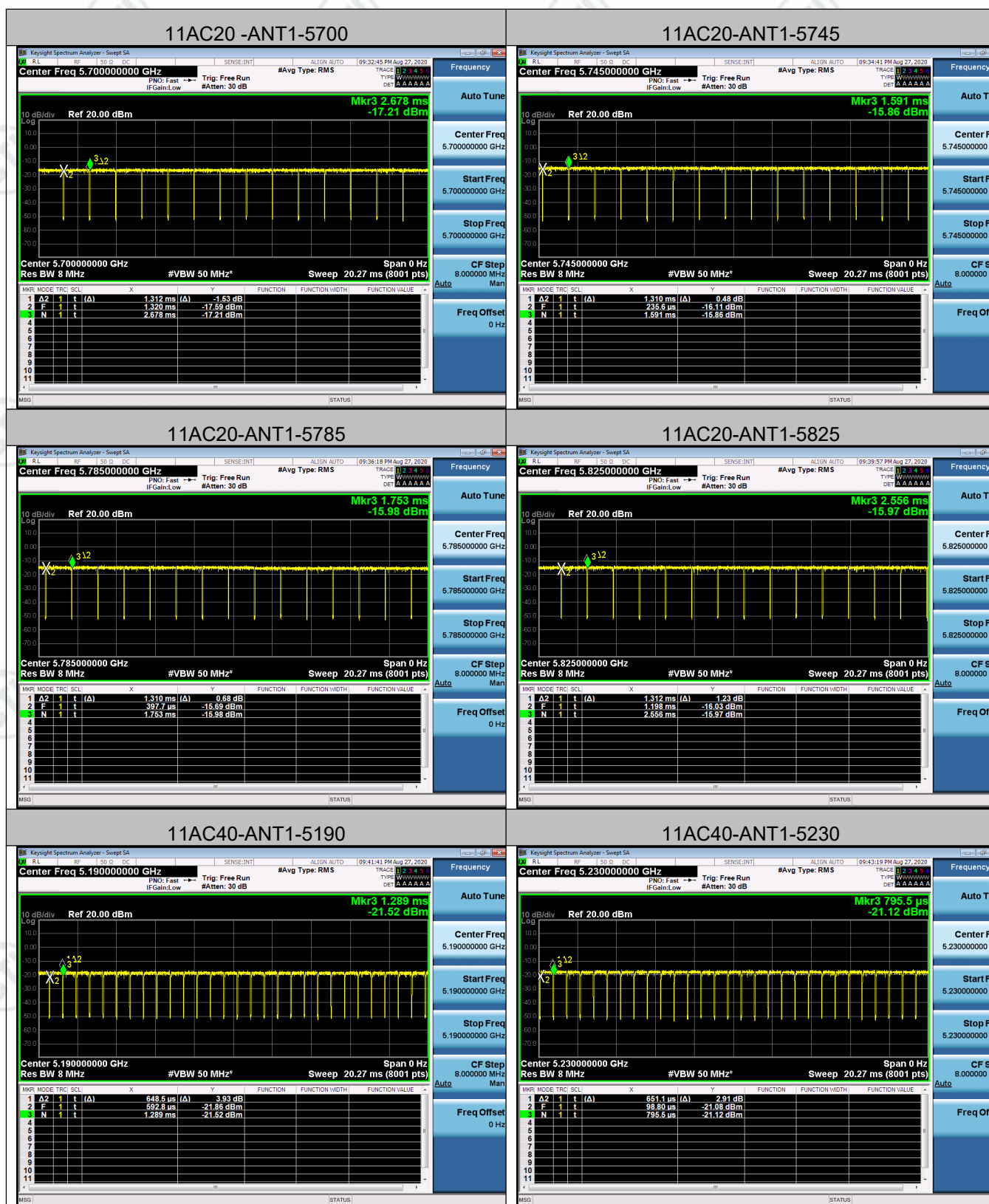


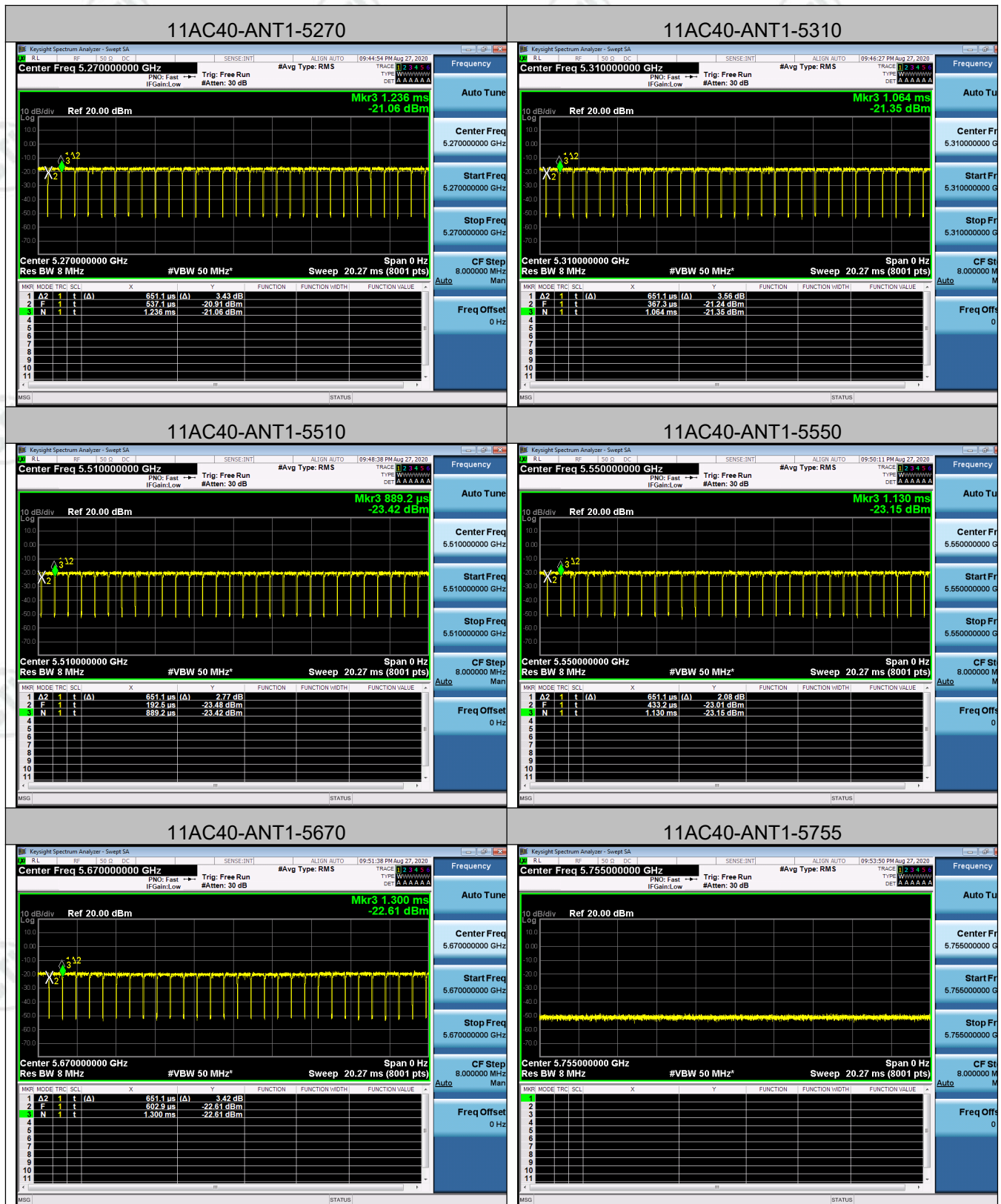


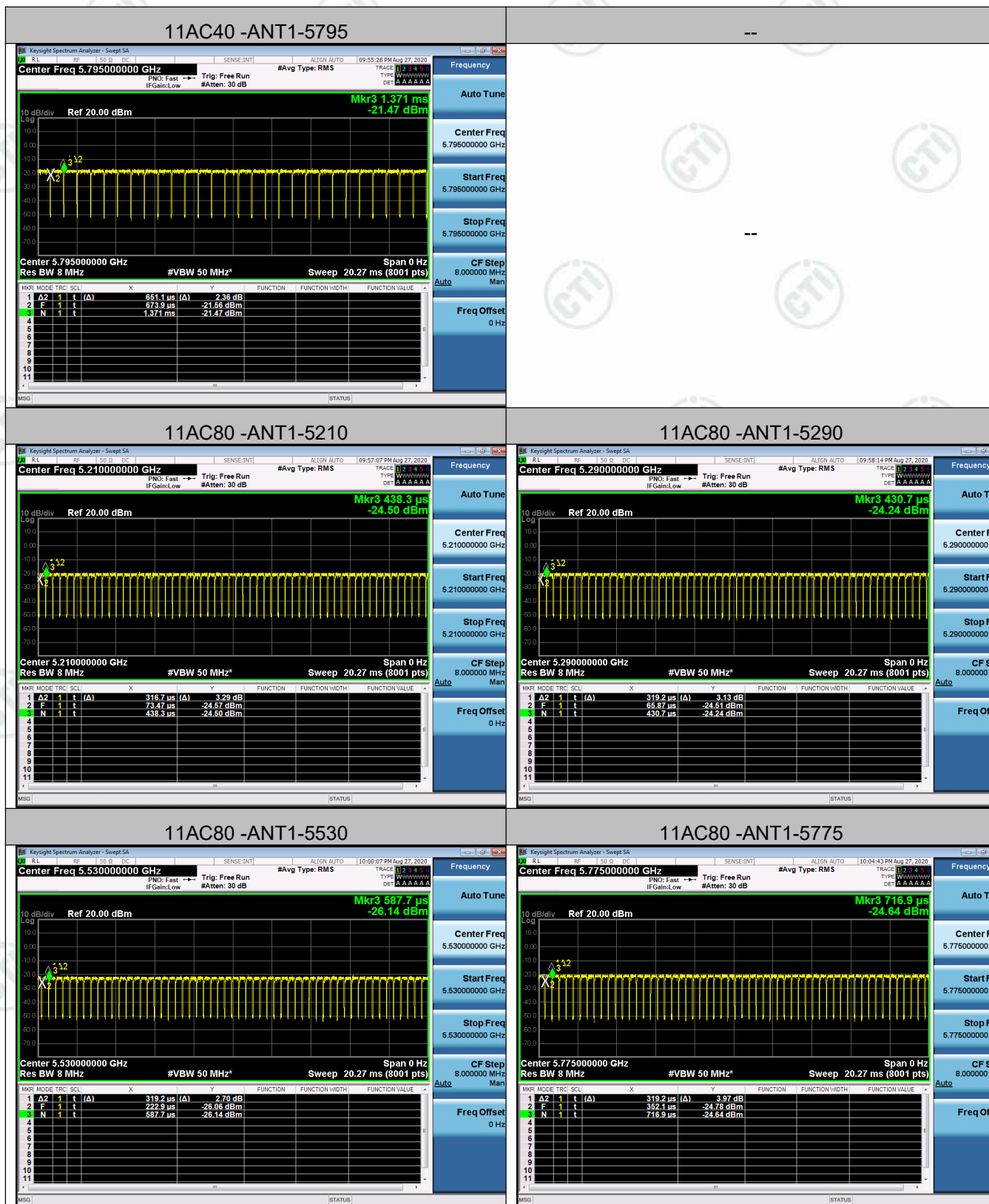












Appendix A): Emission Bandwidth

Result Table

Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11A	Ant1	5180	24.53	16.744	PASS
11A	Ant1	5200	20.70	16.528	PASS
11A	Ant1	5240	20.85	16.532	PASS
11A	Ant1	5260	20.54	16.569	PASS
11A	Ant1	5280	20.43	16.585	PASS
11A	Ant1	5320	20.43	16.487	PASS
11A	Ant1	5500	20.88	16.523	PASS
11A	Ant1	5580	21.04	16.518	PASS
11A	Ant1	5700	21.12	16.509	PASS
11A	Ant1	5745	16.28	16.448	PASS
11A	Ant1	5785	16.36	16.419	PASS
11A	Ant1	5825	15.77	16.445	PASS
11N20SISO	Ant1	5180	20.96	17.714	PASS
11N20SISO	Ant1	5200	21.17	17.775	PASS
11N20SISO	Ant1	5240	20.89	17.740	PASS
11N20SISO	Ant1	5260	21.13	17.651	PASS
11N20SISO	Ant1	5280	20.94	17.742	PASS
11N20SISO	Ant1	5320	20.82	17.777	PASS
11N20SISO	Ant1	5500	21.21	17.701	PASS
11N20SISO	Ant1	5580	20.74	17.722	PASS
11N20SISO	Ant1	5700	21.49	17.650	PASS
11N20SISO	Ant1	5745	17.58	17.645	PASS
11N20SISO	Ant1	5785	16.38	17.619	PASS
11N20SISO	Ant1	5825	15.55	17.617	PASS
11AC20SISO	Ant1	5180	21.09	17.723	PASS
11AC20SISO	Ant1	5200	20.91	17.734	PASS
11AC20SISO	Ant1	5240	21.08	17.698	PASS

11AC20SISO	Ant1	5260	20.65	17.666	PASS
11AC20SISO	Ant1	5280	21.51	17.732	PASS
11AC20SISO	Ant1	5320	21.04	17.660	PASS
11AC20SISO	Ant1	5500	20.99	17.693	PASS
11AC20SISO	Ant1	5580	21.06	17.750	PASS
11AC20SISO	Ant1	5700	21.03	17.661	PASS
11AC20SISO	Ant1	5745	15.36	17.635	PASS
11AC20SISO	Ant1	5785	17.55	17.644	PASS
11AC20SISO	Ant1	5825	16.52	17.644	PASS
11N40SISO	Ant1	5190	39.47	36.139	PASS
11N40SISO	Ant1	5230	38.71	36.102	PASS
11N40SISO	Ant1	5270	39.21	36.052	PASS
11N40SISO	Ant1	5310	39.46	36.155	PASS
11N40SISO	Ant1	5510	38.96	36.100	PASS
11N40SISO	Ant1	5550	38.76	36.081	PASS
11N40SISO	Ant1	5670	39.61	36.189	PASS
11N40SISO	Ant1	5755	35.97	36.191	PASS
11N40SISO	Ant1	5795	35.69	36.099	PASS
11AC40SISO	Ant1	5190	39.39	36.186	PASS
11AC40SISO	Ant1	5230	39.22	36.177	PASS
11AC40SISO	Ant1	5270	38.91	36.128	PASS
11AC40SISO	Ant1	5310	39.48	36.081	PASS
11AC40SISO	Ant1	5510	38.70	36.082	PASS
11AC40SISO	Ant1	5550	39.27	36.038	PASS
11AC40SISO	Ant1	5670	39.44	36.239	PASS
11AC40SISO	Ant1	5755	36.30	36.205	PASS
11AC40SISO	Ant1	5795	35.16	36.133	PASS
Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11AC80SISO	Ant1	5210	79.65	75.374	PASS
11AC80SISO	Ant1	5290	80.10	75.466	PASS
11AC80SISO	Ant1	5530	80.24	75.490	PASS
11AC80SISO	Ant1	5775	75.07	75.416	PASS

Test Graph

