

TEST REPORT

Product : WIFI+BT Module
Trade mark : GSD
Model/Type reference : WCT3TM2311
Serial Number : N/A
Report Number : EED32L00127305
FCC ID : 2AC23-WCT3T
Date of Issue : Aug. 16, 2019
Test Standards : 47 CFR Part 15 Subpart E
Test result : PASS

Prepared for:

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Aug. 16, 2019

Check No.: 3096342577



2 Version

Version No.	Date	Description
00	Aug. 16, 2019	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
Band Edge Measurements	Part15E Section 15.407 (b)(4)	KDB789033 D02v01	PASS
Dynamic Frequency Selection	47 CFR Part 15 Subpart E Section 15.407 (h)	KDB905462 D02	N/A
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	N/A
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:

The tested sample(s) and the sample information are provided by the client.

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

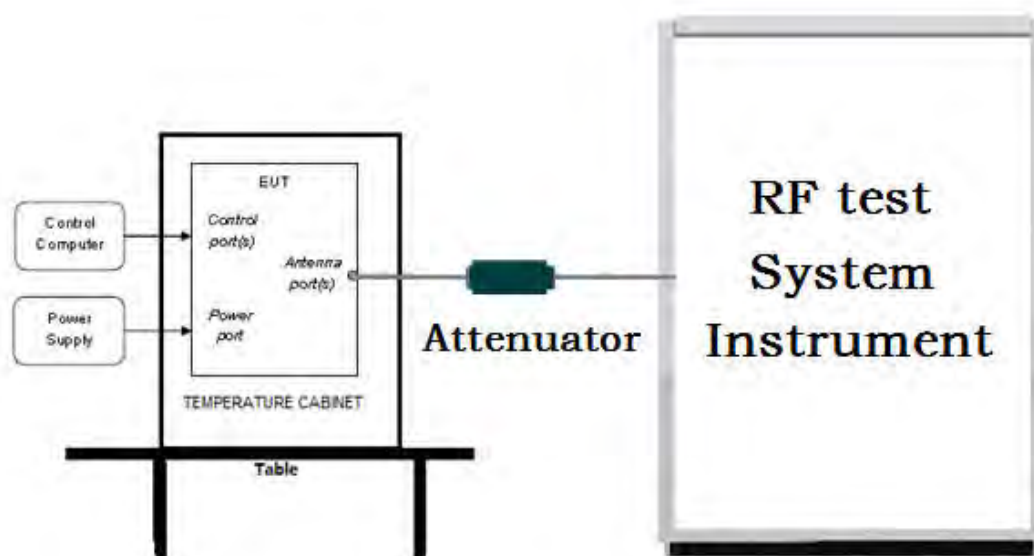
4 Content

1 COVER PAGE.....	1
2 VERSION.....	2
3 TEST SUMMARY.....	3
4 CONTENT.....	4
5 TEST REQUIREMENT.....	5
5.1 TEST SETUP.....	5
5.1.1 For Conducted test setup.....	5
5.1.2 For Radiated Emissions test setup.....	5
5.1.3 For Conducted Emissions test setup.....	6
5.2 TEST ENVIRONMENT.....	6
5.3 TEST CONDITION.....	6
6 GENERAL INFORMATION.....	7
6.1 CLIENT INFORMATION.....	7
6.2 GENERAL DESCRIPTION OF EUT.....	7
6.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD.....	8
6.4 DESCRIPTION OF SUPPORT UNITS.....	9
6.5 TEST LOCATION.....	9
6.6 DEVIATION FROM STANDARDS.....	9
6.7 ABNORMALITIES FROM STANDARD CONDITIONS.....	9
6.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	9
6.9 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, $k=2$).....	9
7 EQUIPMENT LIST.....	10
8 RADIO TECHNICAL REQUIREMENTS SPECIFICATION.....	14
Appendix A): Emission Bandwidth.....	15
Appendix B): Maximum Conduct Output Power.....	37
Appendix C): Power Spectral Density.....	61
Appendix D): Band Edge Measurements.....	84
Appendix E): Frequency Stability.....	103
Appendix F): Duty Cycle.....	132
Appendix G) Antenna Requirement.....	153
Appendix H) AC Power Line Conducted Emission.....	154
Appendix I) Restricted bands around fundamental frequency (Radiated Emission).....	157
Appendix J) Unwanted Emissions in the Restricted Bands (Radiated Emission).....	194
Appendix K) Unwanted Emissions that fall Outside of the Restricted Bands.....	319
PHOTOGRAPHS OF TEST SETUP.....	363
PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS.....	365

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:

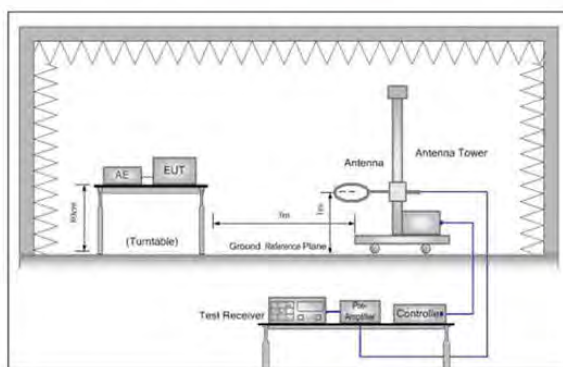


Figure 1. Below 30MHz

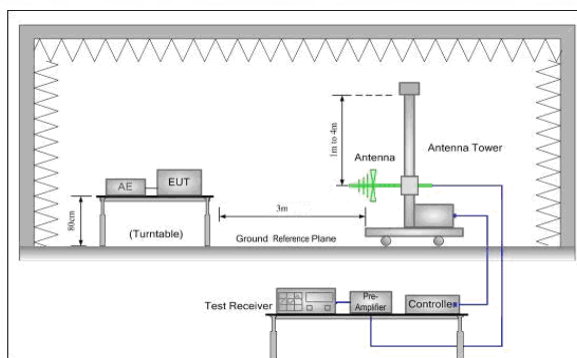


Figure 2. 30MHz to 1GHz

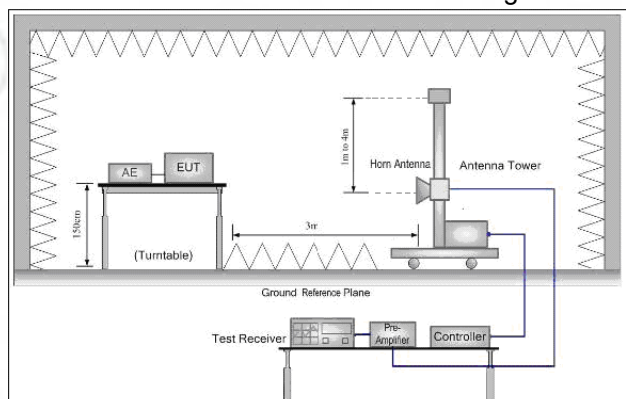
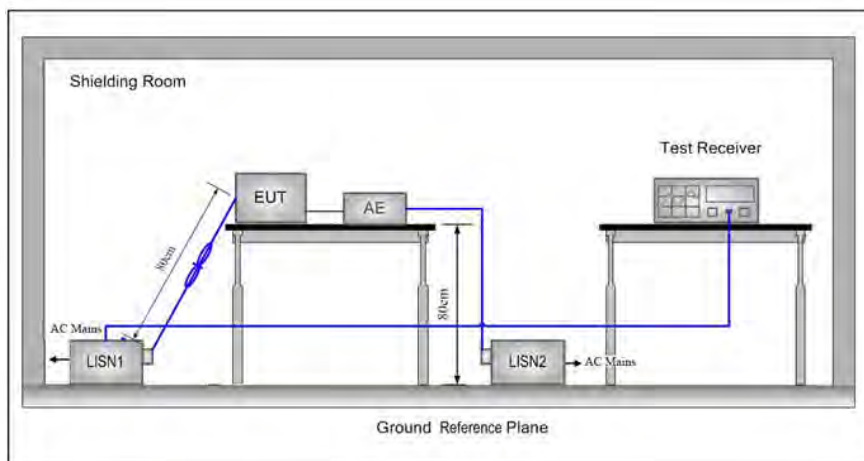


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup

Conducted Emissions setup



5.2 Test Environment

Operating Environment:	
Temperature:	24°C
Humidity:	58 % 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 44	Channel 48
		5180MHz	5220MHz	5240MHz
802.11a/n/ac(HT20)	5725MHz ~5850 MHz	Channel 149	Channel 157	Channel 165
		5745MHz	5785MHz	5825MHz
802.11n/ac(HT40)	5150MHz ~5250 MHz	Channel 38	N/A	Channel 46
		5190MHz	N/A	5230MHz
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)	5725MHz ~5850 MHz	Channel 155	N/A	N/A
		5775MHz	N/A	N/A

6 General Information

6.1 Client Information

Applicant:	Hui Zhou Gaoshengda Technology Co., LTD
Address of Applicant:	NO.75 Zhongkai Development Area Huizhou, Guangdong, China
Manufacturer:	Hui Zhou Gaoshengda Technology Co., LTD
Address of Manufacturer:	NO.75 Zhongkai Development Area Huizhou, Guangdong, China
Factory:	Hui Zhou Gaoshengda Technology Co., LTD
Address of Factory:	NO.75 Zhongkai Development Area Huizhou, Guangdong, China

6.2 General Description of EUT

Product Name:	WIFI+BT Module
Model No.(EUT):	WCT3TM2311
Trade Mark:	GSD
EUT Supports Radios application:	5G WiFi, 802.11a/n(HT20)/n(HT40)/ac(HT20)/ac(HT40)/ac(HT80)
Power Supply:	DC 5V
Sample Received Date:	May. 23, 2019
Sample tested Date:	May. 23, 2019 to Aug. 15, 2019

6.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11a/n/ac(HT20): 5180MHz ~5240 MHz IEEE802.11a/n/ac(HT20): 5745MHz ~5825 MHz IEEE802.11n/ac(HT40) 5190MHz ~5230 MHz IEEE802.11n/ac(HT40) 5755MHz ~5795 MHz IEEE802.11ac(HT80) 5210 IEEE802.11ac(HT80) 5775
Channel Numbers:	IEEE 802.11a/n/ac(HT20): 5180MHz ~5240 MHz / 4 channel IEEE802.11a/n/ac(HT20): 5745MHz ~5825 MHz / 5 channel IEEE802.11n/ac(HT40) 5190MHz ~5230 MHz/ 2 channel IEEE802.11n/ac(HT40) 5755MHz ~5795 MHz / 2 channel IEEE802.11ac(HT80) 5210 / 1 channel IEEE802.11ac(HT80) 5775 / 1 channel
Type of Modulation:	OFDM
Test Power Grade:	N/A
Test Software of EUT:	MT7662 & V1.0.3.14 (manufacturer declare)
Antenna Type and Gain:	PIFA Antenna, Gain:2.99 dBi
Test Voltage:	DC 5V

Operation Frequency each of channel

For 802.11a/n/ac(HT20) Operation in the 5180 ~ 5240 band							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz

For 802.11a/n/ac(HT20) Operation in the 5745MHz ~5825 MHz band							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745MHz	153	5765MHz	157	5785MHz	161	5805MHz
165	5825MHz	N/A	N/A	N/A	N/A	N/A	N/A

For 802.11n/ac(HT40) Operation in the 5190MHz ~5230MHz band			
Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz

For 802.11n/ac(HT40) Operation in the 5755MHz ~5795 MHz band					
Channel	Frequency	Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz	N/A	N/A

For 802.11ac(HT80) Operation in the 5210 MHz band					
Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210MHz	N/A	N/A	N/A	N/A

For 802.11ac(HT80) Operation in the 5775 MHz band					
Channel	Frequency	Channel	Frequency	Channel	Frequency
155	5775MHz	N/A	N/A	N/A	N/A

6.4 Description of Support Units

The EUT has been tested independently

6.5 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

6.6 Deviation from Standards

None.

6.7 Abnormalities from Standard Conditions

None.

6.8 Other Information Requested by the Customer

None.

6.9 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	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Signal Generator	Keysight	E8257D	MY53401106	03-01-2019	02-28-2020
Spectrum Analyzer	Keysight	N9010A	MY54510339	03-01-2019	02-28-2020
Signal Generator	Keysight	N5182B	MY53051549	03-01-2019	02-28-2020
High-pass filter	Sinoscite	FL3CX03WG1 8NM12-0398-002	---	01-09-2019	01-08-2020
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	01-09-2019	01-08-2020
DC Power	Keysight	E3642A	MY54426035	03-01-2019	02-28-2020
PC-1	Lenovo	R4960d	---	03-01-2019	02-28-2020
BT&WI-FI Automatic control	R&S	OSP120	101374	03-01-2019	02-28-2020
RF control unit	JS Tonscend	JS0806-2	15860006	03-01-2019	02-28-2020
RF control unit	JS Tonscend	JS0806-1	15860004	03-01-2019	02-28-2020
RF control unit	JS Tonscend	JS0806-4	158060007	03-01-2019	02-28-2020
BT&WI-FI Automatic test software	JS Tonscend	JS1120-2	---	03-01-2019	02-28-2020
Temperature/Humidity Indicator	biaozhi	HM10	1804186	10-12-2018	10-11-2019

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	05-22-2020
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-401	12-21-2018	12-20-2019
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	07-26-2019	07-24-2020
Microwave Preamplifier	Agilent	8449B	3008A02425	08-21-2018	08-20-2019
Microwave Preamplifier	Tonscend	EMC051845 SE	980380	01-16-2019	01-15-2020
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1869	04-25-2018	04-23-2021
Horn Antenna	ETS-LINDGREN	3117	00057410	06-05-2018	06-03-2021
Double ridge horn antenna	A.H.SYSTEMS	SAS-574	374	06-05-2018	06-04-2021
Pre-amplifier	A.H.SYSTEMS	PAP-1840-60	6041.6041	07-26-2019	07-24-2020
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-25-2018	04-24-2021
Spectrum Analyzer	R&S	FSP40	100416	04-28-2019	04-26-2020
Receiver	R&S	ESCI	100435	05-20-2019	05-18-2020
Receiver	R&S	ESCI7	100938-003	11-23-2018	11-22-2019
Multi device Controller	maturo	NCD/070/10711112	---	01-09-2019	01-08-2020
Signal Generator	Agilent	E4438C	MY45095744	03-01-2019	02-28-2020
Signal Generator	Keysight	E8257D	MY53401106	03-01-2019	02-28-2020
Temperature/Humidity Indicator	Shanghai qixiang	HM10	1804298	10-12-2018	10-11-2019
Communication test set	Agilent	E5515C	GB47050534	03-01-2019	02-28-2020
Cable line	Fulai(7M)	SF106	5219/6A	01-09-2019	01-08-2020
Cable line	Fulai(6M)	SF106	5220/6A	01-09-2019	01-08-2020
Cable line	Fulai(3M)	SF106	5216/6A	01-09-2019	01-08-2020
Cable line	Fulai(3M)	SF106	5217/6A	01-09-2019	01-08-2020
Communication test set	R&S	CMW500	104466	01-18-2019	01-17-2020
High-pass filter	Sinoscite	FL3CX03WG18NM12-0398-002	---	01-09-2019	01-08-2020
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX01CA09CL12-0395-001	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX01CA08CL12-0393-001	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX02CA04CL12-0396-002	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX02CA03CL12-0394-001	---	01-09-2019	01-08-2020

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	06-19-2019	06-17-2020
Receiver	Keysight	N9038A	MY57290136	03-27-2019	03-25-2020
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-27-2019	03-25-2020
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-27-2019	03-25-2020
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-075	04-25-2018	04-23-2021
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-25-2018	04-23-2021
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-25-2018	04-23-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-25-2018	04-23-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-829	04-25-2018	04-23-2021
Communication Antenna	Schwarzbeck	CLSA 0110L	1014	02-14-2019	02-13-2020
Biconical antenna	Schwarzbeck	VUBA 9117	9117-381	04-25-2018	04-23-2021
Horn Antenna	ETS-LINDGREN	3117	00057407	07-10-2018	07-08-2021
Preamplifier	EMCI	EMC184055SE	980596	05-22-2019	05-20-2020
Communication test set	R&S	CMW500	102898	01-18-2019	01-17-2020
Preamplifier	EMCI	EMC001330	980563	05-08-2019	05-06-2020
Preamplifier	Agilent	8449B	3008A02425	08-21-2018	08-20-2019
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	05-01-2019	04-30-2020
Signal Generator	KEYSIGHT	E8257D	MY53401106	03-01-2019	02-28-2020
Fully Anechoic Chamber	TDK	FAC-3	---	01-17-2018	01-15-2021
Filter bank	JS Tonscend	JS0806-F	188060094	04-10-2018	04-08-2021
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	01-09-2019	01-08-2020
Cable line	Times	EMC104-NMNM-1000	SN160710	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	01-09-2019	01-08-2020
Cable line	Times	HF160-KMKM-3.00M	393493-0001	01-09-2019	01-08-2020

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	05-20-2019	05-18-2020
Temperature/ Humidity Indicator	Defu	TH128	/	06-14-2019	06-12-2020
Communication test set	Agilent	E5515C	GB47050 534	03-01-2019	02-28-2020
Communication test set	R&S	CMW500	102898	01-18-2019	01-17-2020
LISN	R&S	ENV216	100098	05-08-2019	05-06-2020
LISN	schwarzbeck	NNLK8121	8121-529	05-08-2019	05-06-2020
Voltage Probe	R&S	ESH2-Z3 0299.7810.5 6	100042	06-13-2017	06-11-2020
Current Probe	R&S	EZ-17 816.2063.03	100106	05-20-2019	05-18-2020
ISN	TESEQ	ISN T800	30297	01-16-2019	01-15-2020
Barometer	changchun	DYM3	1188	06-20-2019	06-18-2020

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 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)	KDB789033 D02v01	26dB Occupied Bandwidth	PASS	Appendix A)
Part15E Section 15.407 (a)(1)(2)(4)(h)(1)	KDB789033 D02v01	Conducted Output Power and transmit power control mechanism	PASS	Appendix B)
Part15E Section 15.407 (a)(1)(2)(5)	KDB789033 D02v01	Power Spectral Density	PASS	Appendix C)
Part15E Section 15.407 (b)(4)	KDB789033 D02v01	Band Edge Measurements	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 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)

Appendix A): Emission Bandwidth

Result Table

Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11A	Ant1	5180	19.56	16.502	PASS
11A	Ant2	5180	19.42	16.495	PASS
11A	Ant1	5200	20.45	16.482	PASS
11A	Ant2	5200	19.51	17.466	PASS
11A	Ant1	5240	19.53	17.434	PASS
11A	Ant2	5240	19.45	17.449	PASS
11A	Ant1	5745	17.00	17.463	PASS
11A	Ant2	5745	17.46	17.489	PASS
11A	Ant1	5785	16.12	17.473	PASS
11A	Ant2	5785	17.27	17.457	PASS
11A	Ant1	5825	16.98	17.491	PASS
11A	Ant2	5825	17.67	17.541	PASS

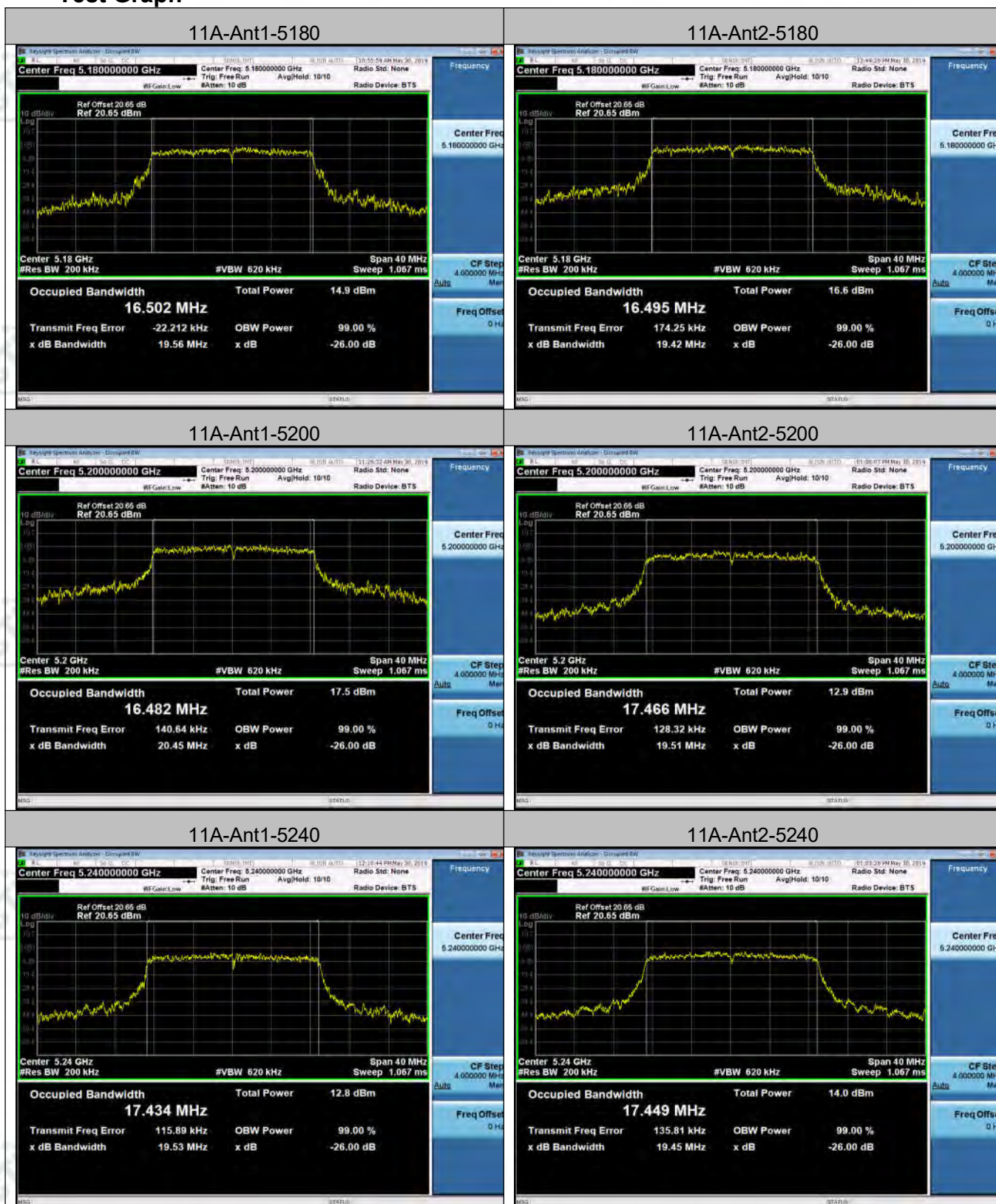
Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11N20SISO	Ant1	5180	19.41	17.464	PASS
11N20SISO	Ant2	5180	19.58	17.504	PASS
11N20SISO	Ant1	5200	19.26	17.488	PASS
11N20SISO	Ant2	5200	19.54	17.467	PASS
11N20SISO	Ant1	5240	19.42	17.483	PASS
11N20SISO	Ant2	5240	19.34	17.462	PASS
11N20SISO	Ant1	5745	17.33	17.504	PASS
11N20SISO	Ant2	5745	17.50	17.494	PASS
11N20SISO	Ant1	5785	17.49	17.468	PASS
11N20SISO	Ant2	5785	17.52	17.521	PASS
11N20SISO	Ant1	5825	17.01	17.459	PASS
11N20SISO	Ant2	5825	17.29	17.462	PASS
11N40SISO	Ant1	5190	39.77	35.941	PASS
11N40SISO	Ant2	5190	38.93	35.950	PASS
11N40SISO	Ant1	5230	39.91	35.948	PASS
11N40SISO	Ant2	5230	39.47	35.973	PASS
11N40SISO	Ant1	5755	35.04	35.932	PASS
11N40SISO	Ant2	5755	36.39	36.070	PASS
11N40SISO	Ant1	5795	33.47	35.984	PASS
11N40SISO	Ant2	5795	17.19	17.490	PASS

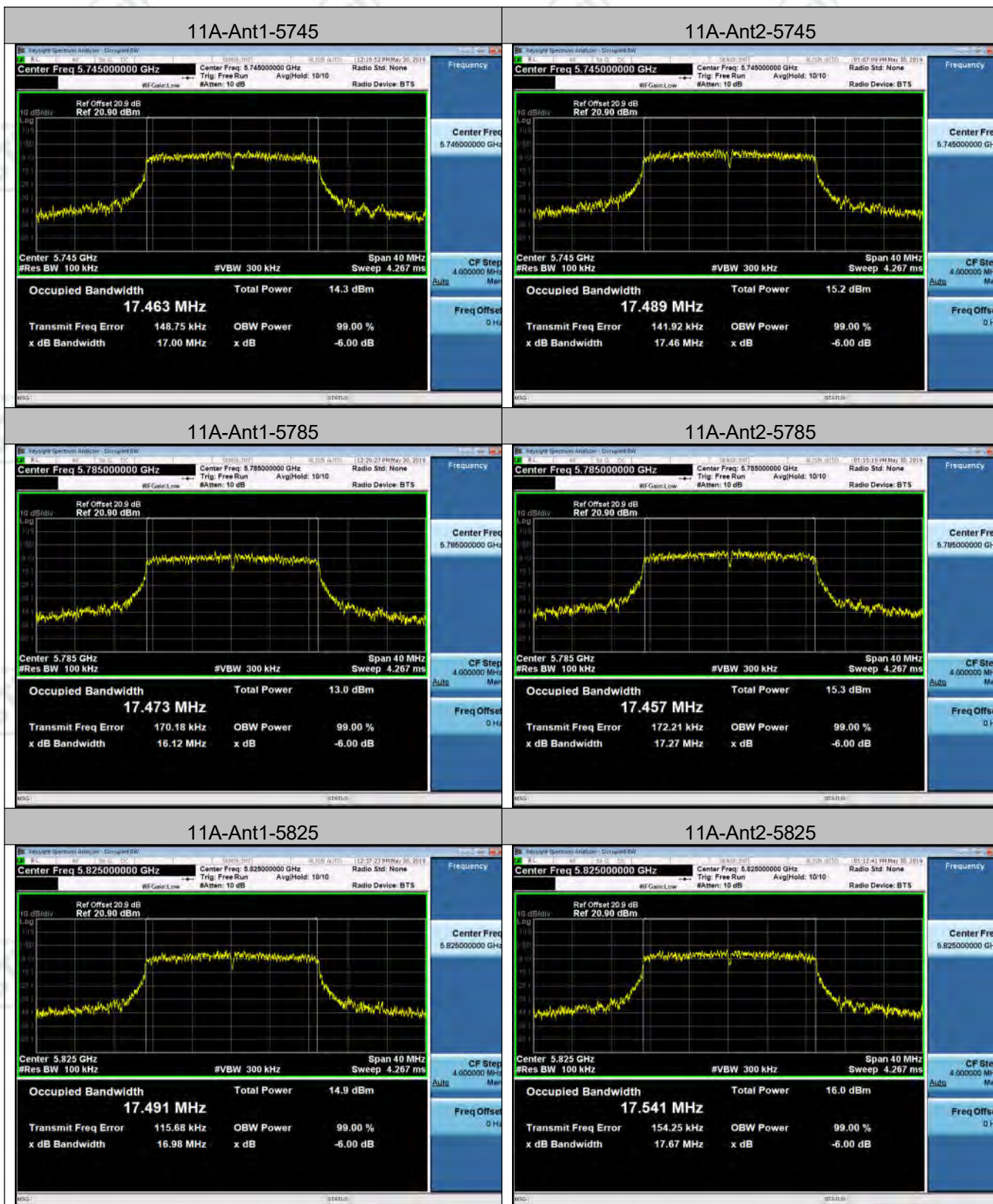
Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11AC20SISO	Ant1	5180	18.89	17.489	PASS
11AC20SISO	Ant2	5180	19.91	17.601	PASS
11AC20SISO	Ant1	5200	19.71	17.582	PASS
11AC20SISO	Ant2	5200	19.63	17.569	PASS
11AC20SISO	Ant1	5240	19.47	17.601	PASS
11AC20SISO	Ant2	5240	19.45	17.576	PASS
11AC20SISO	Ant1	5745	16.31	17.548	PASS
11AC20SISO	Ant2	5745	14.99	17.557	PASS
11AC20SISO	Ant1	5785	17.58	17.570	PASS
11AC20SISO	Ant2	5785	17.57	17.562	PASS
11AC20SISO	Ant1	5825	17.56	17.561	PASS
11AC20SISO	Ant2	5825	17.07	17.587	PASS
11AC40SISO	Ant1	5190	39.89	35.952	PASS
11AC40SISO	Ant2	5190	39.90	35.975	PASS
11AC40SISO	Ant1	5230	40.02	36.020	PASS
11AC40SISO	Ant2	5230	39.91	36.117	PASS
11AC40SISO	Ant1	5755	36.39	36.013	PASS
11AC40SISO	Ant2	5755	35.93	36.072	PASS
11AC40SISO	Ant1	5795	36.03	35.999	PASS
11AC40SISO	Ant2	5795	36.27	36.081	PASS
11AC80SISO	Ant1	5210	79.60	74.492	PASS
11AC80SISO	Ant2	5210	138.0	75.760	PASS
11AC80SISO	Ant1	5775	74.70	74.864	PASS
11AC80SISO	Ant2	5775	75.36	74.977	PASS

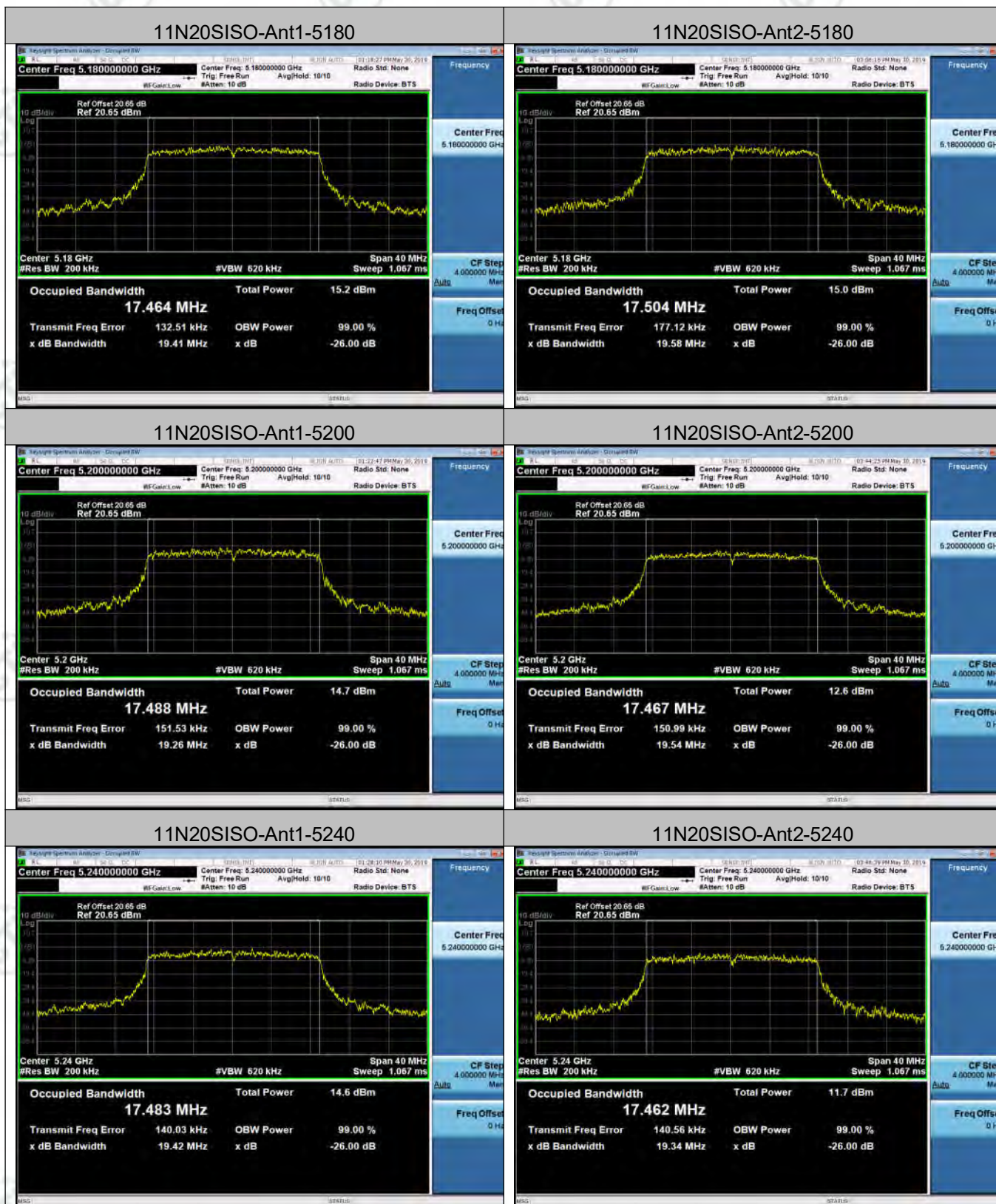
Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11N20MIMO	Ant1	5180	19.75	17.527	PASS
11N20MIMO	Ant2	5180	19.22	17.501	PASS
11N20MIMO	Ant1	5200	20.51	17.568	PASS
11N20MIMO	Ant2	5200	19.26	17.494	PASS
11N20MIMO	Ant1	5240	19.75	17.532	PASS
11N20MIMO	Ant2	5240	19.27	17.490	PASS
11N20MIMO	Ant1	5745	16.92	17.580	PASS
11N20MIMO	Ant2	5745	17.12	17.581	PASS
11N20MIMO	Ant1	5785	17.17	17.452	PASS
11N20MIMO	Ant2	5785	17.06	17.495	PASS
11N20MIMO	Ant1	5825	17.58	17.499	PASS
11N20MIMO	Ant2	5825	17.27	17.495	PASS
11N40MIMO	Ant1	5190	20.34	17.504	PASS
11N40MIMO	Ant2	5190	20.28	17.589	PASS
11N40MIMO	Ant1	5230	39.38	35.952	PASS
11N40MIMO	Ant2	5230	39.51	35.927	PASS
11N40MIMO	Ant1	5755	36.37	36.063	PASS
11N40MIMO	Ant2	5755	36.39	36.051	PASS
11N40MIMO	Ant1	5795	36.23	36.028	PASS
11N40MIMO	Ant2	5795	36.34	35.996	PASS

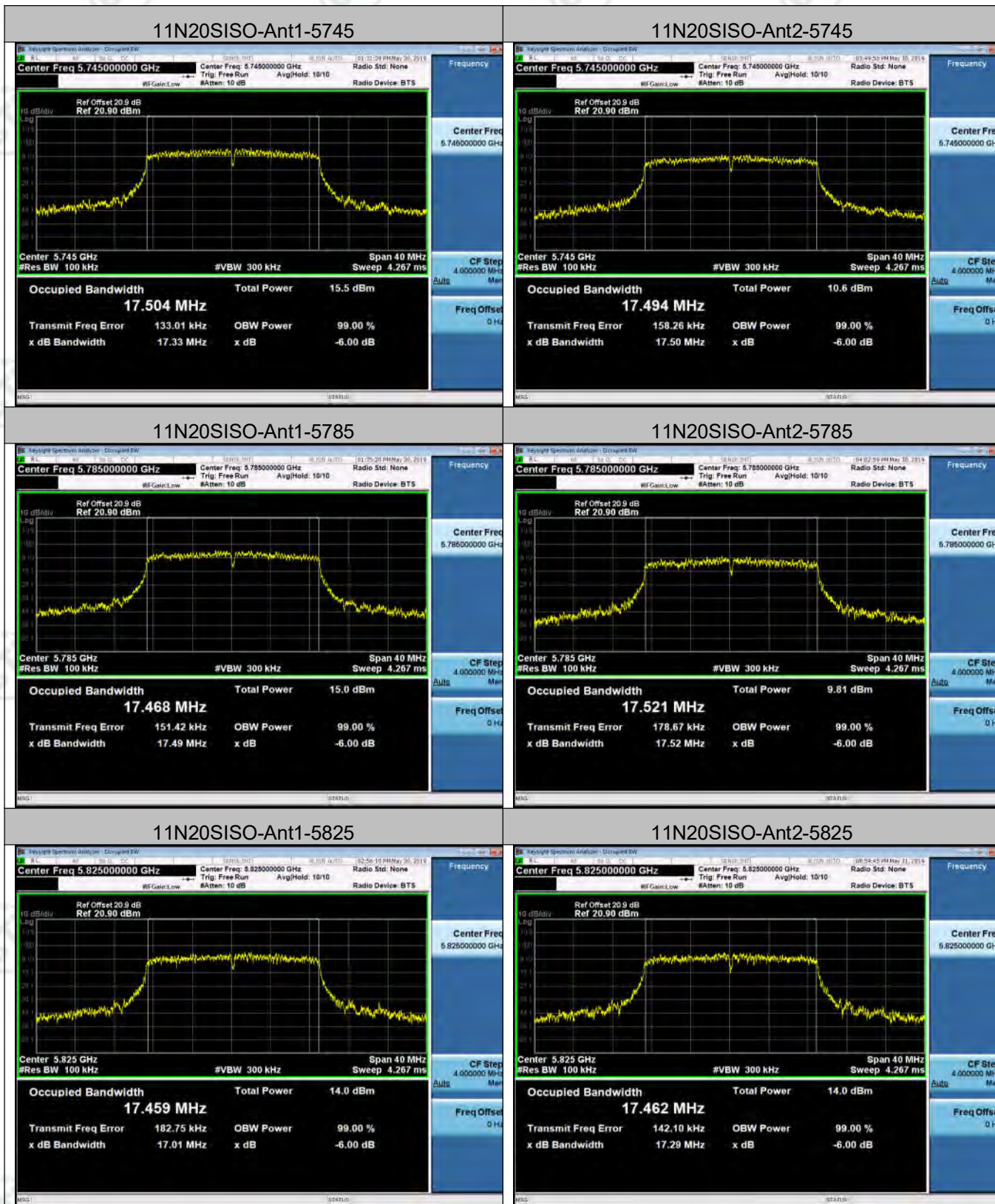
Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11AC20MIMO	Ant1	5180	19.33	17.430	PASS
11AC20MIMO	Ant2	5180	19.46	17.505	PASS
11AC20MIMO	Ant1	5200	19.09	17.462	PASS
11AC20MIMO	Ant2	5200	19.29	17.464	PASS
11AC20MIMO	Ant1	5240	19.99	17.485	PASS
11AC20MIMO	Ant2	5240	19.13	17.488	PASS
11AC20MIMO	Ant1	5745	17.12	17.465	PASS
11AC20MIMO	Ant2	5745	17.52	17.490	PASS
11AC20MIMO	Ant1	5785	17.65	17.589	PASS
11AC20MIMO	Ant2	5785	17.61	17.583	PASS
11AC20MIMO	Ant1	5825	16.96	17.487	PASS
11AC20MIMO	Ant2	5825	17.50	17.485	PASS
11AC40MIMO	Ant1	5190	38.94	35.928	PASS
11AC40MIMO	Ant2	5190	40.10	35.872	PASS
11AC40MIMO	Ant1	5230	39.11	36.039	PASS
11AC40MIMO	Ant2	5230	40.41	36.004	PASS
11AC40MIMO	Ant1	5755	36.40	36.093	PASS
11AC40MIMO	Ant2	5755	36.34	36.003	PASS
11AC40MIMO	Ant1	5795	36.30	36.095	PASS
11AC40MIMO	Ant2	5795	36.29	36.083	PASS
11AC80MIMO	Ant1	5210	79.25	74.802	PASS
11AC80MIMO	Ant2	5210	80.08	74.838	PASS
11AC80MIMO	Ant1	5775	75.35	74.929	PASS
11AC80MIMO	Ant2	5775	75.32	74.938	PASS

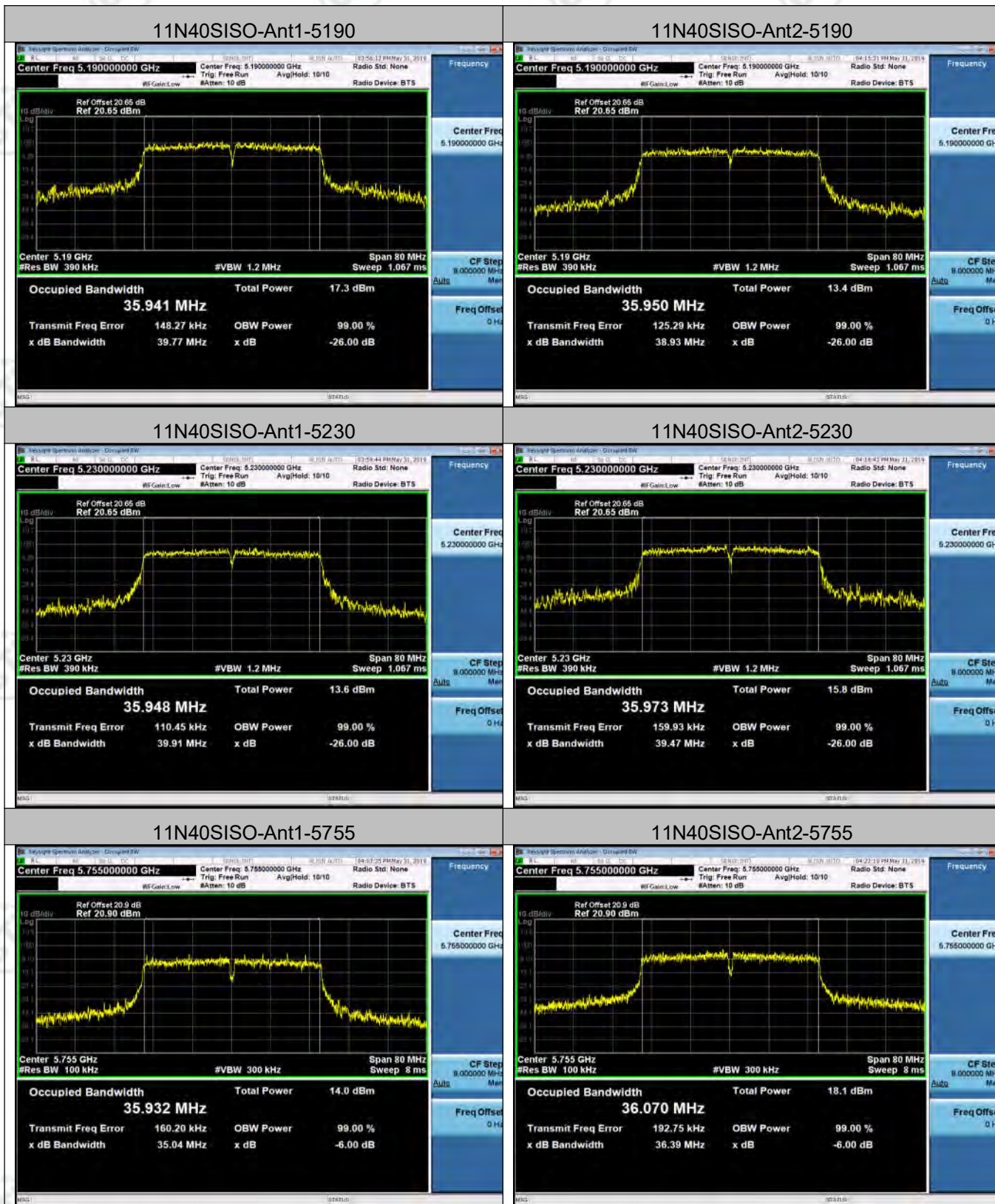
Test Graph

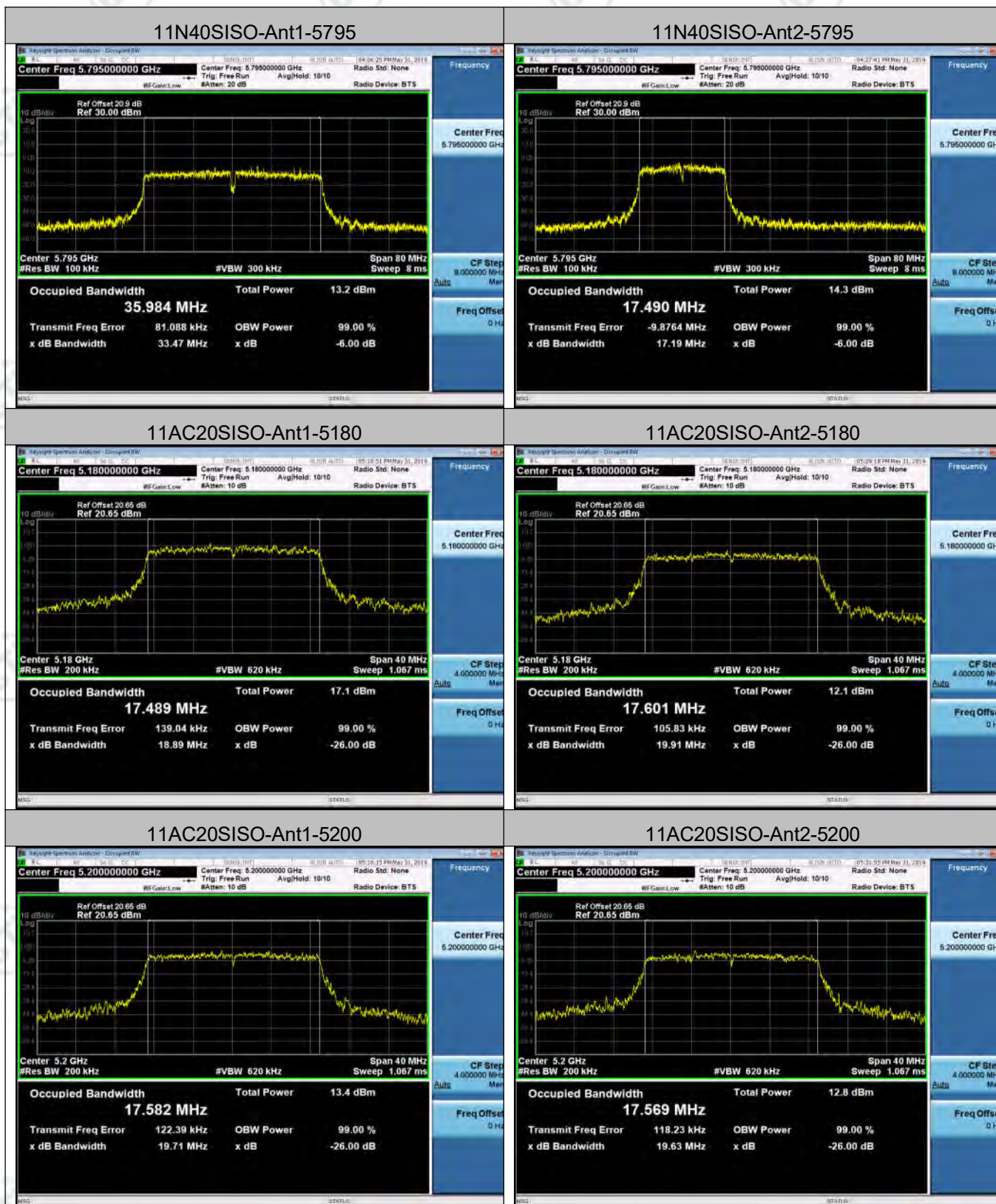


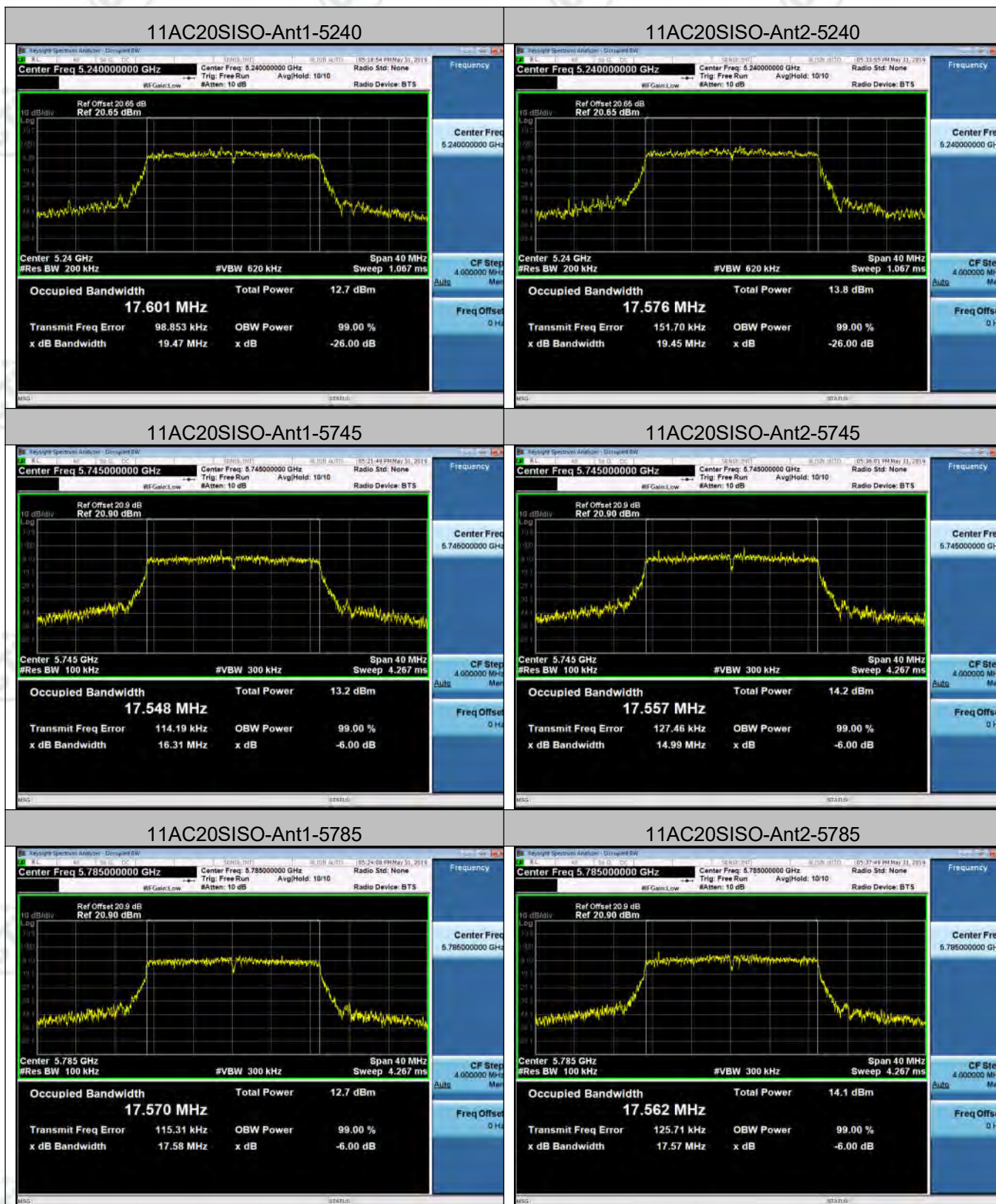


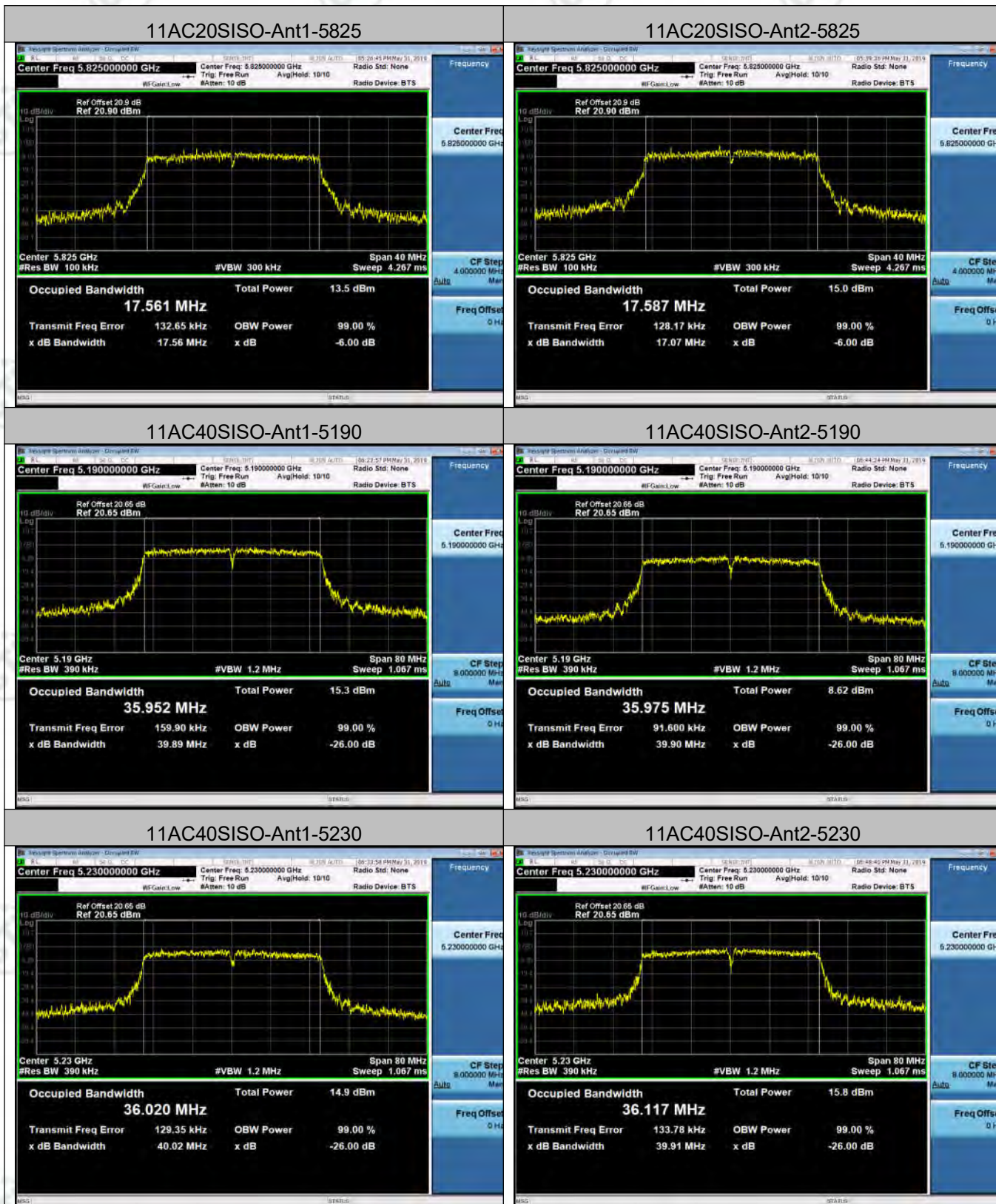


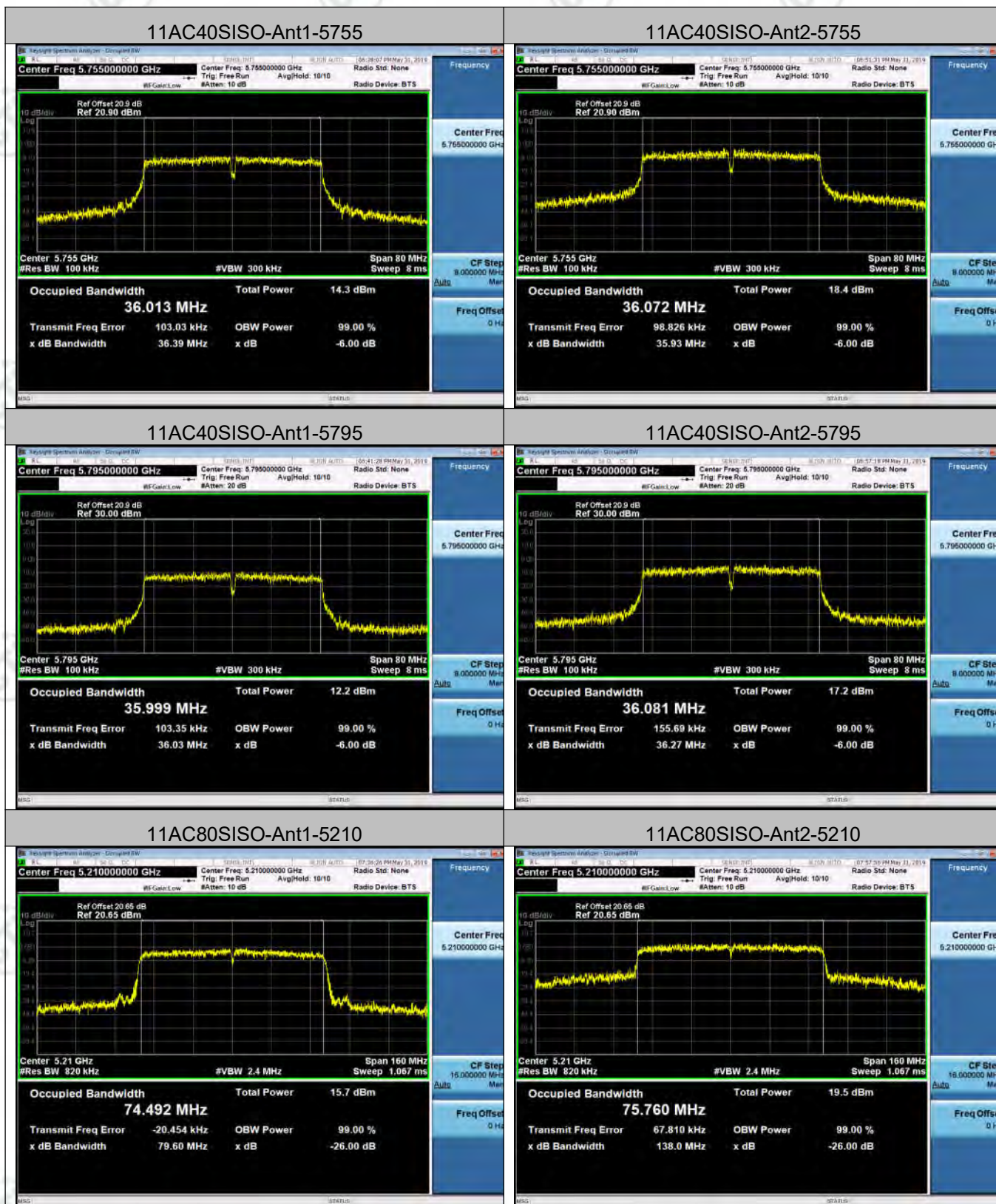


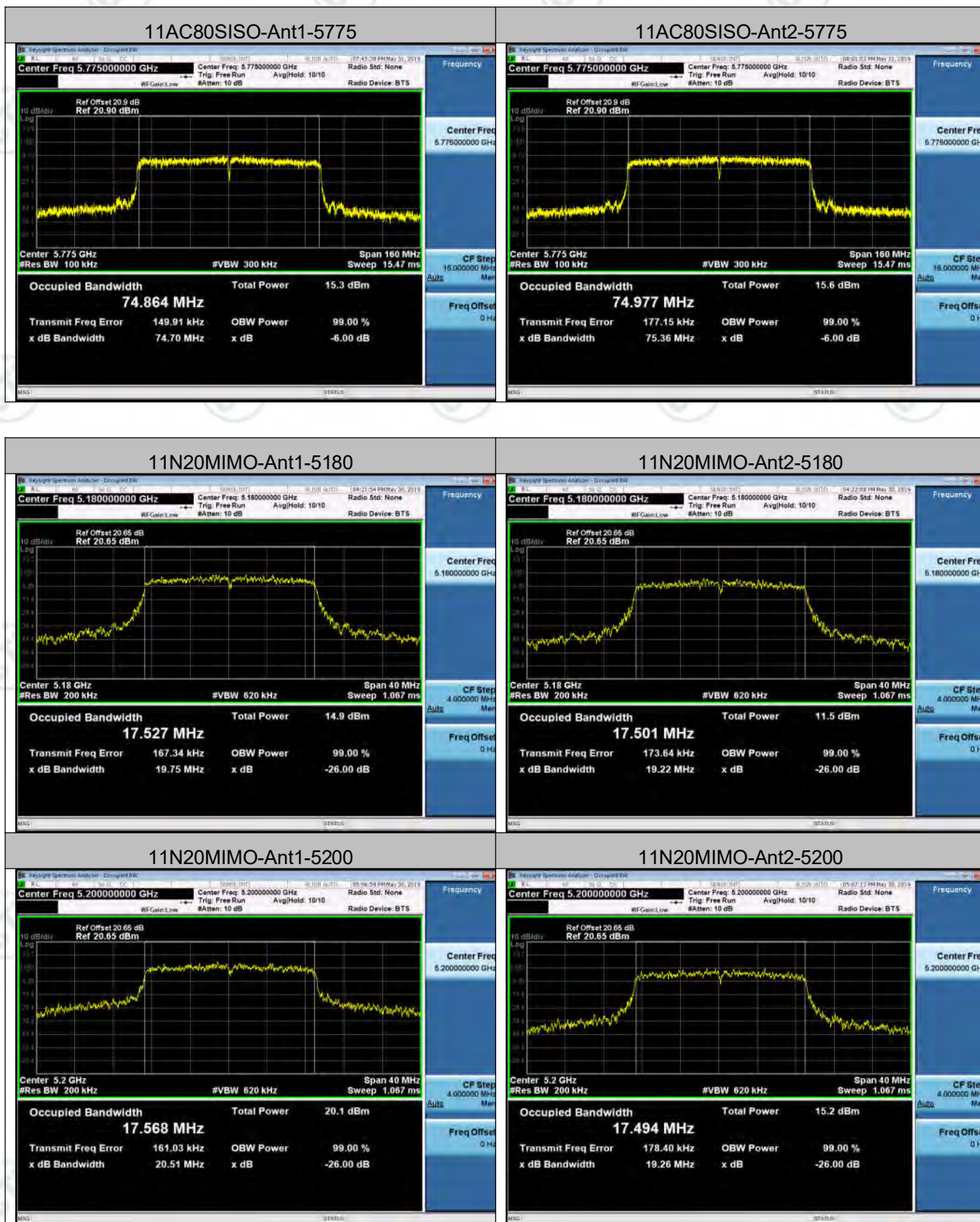


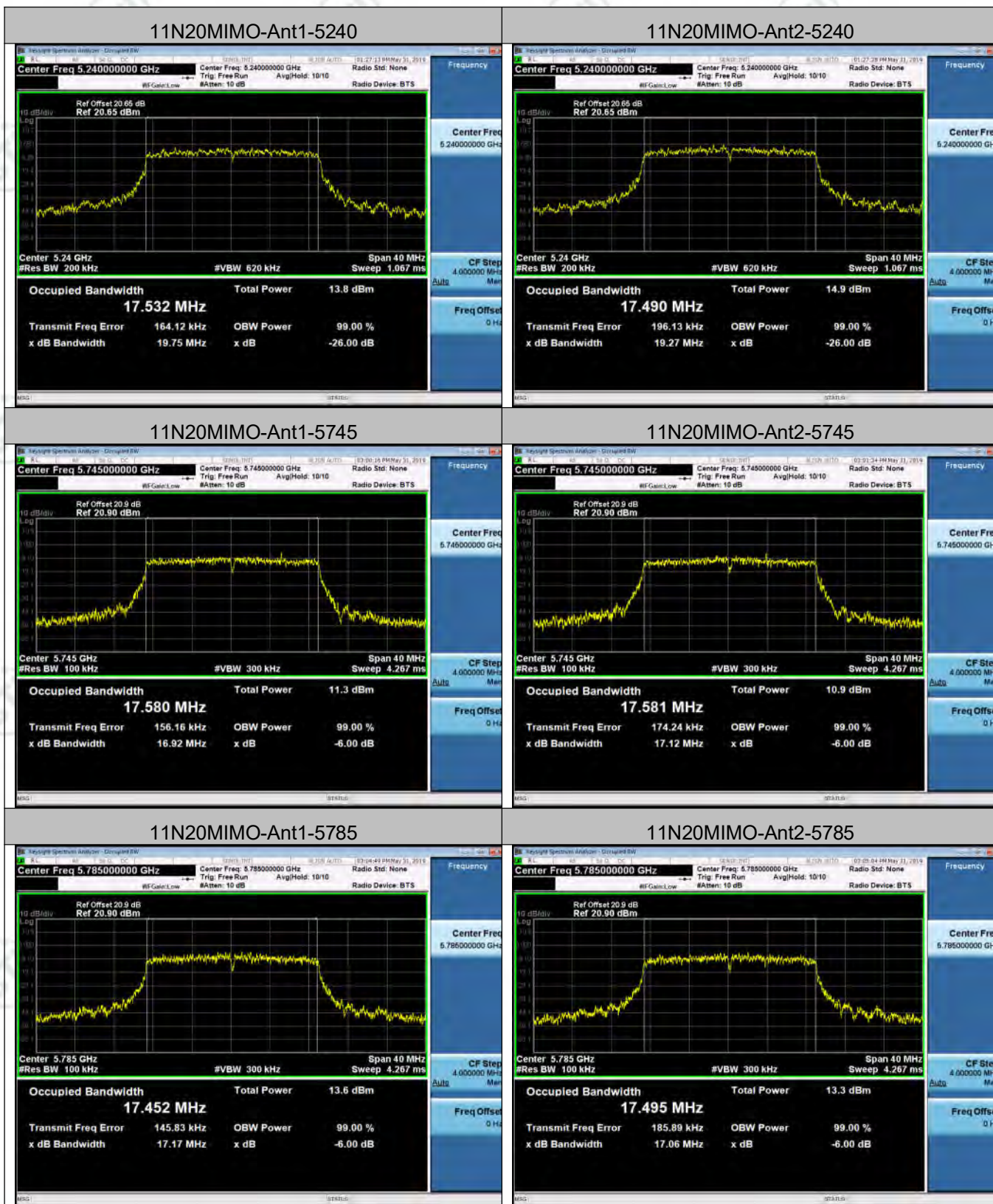


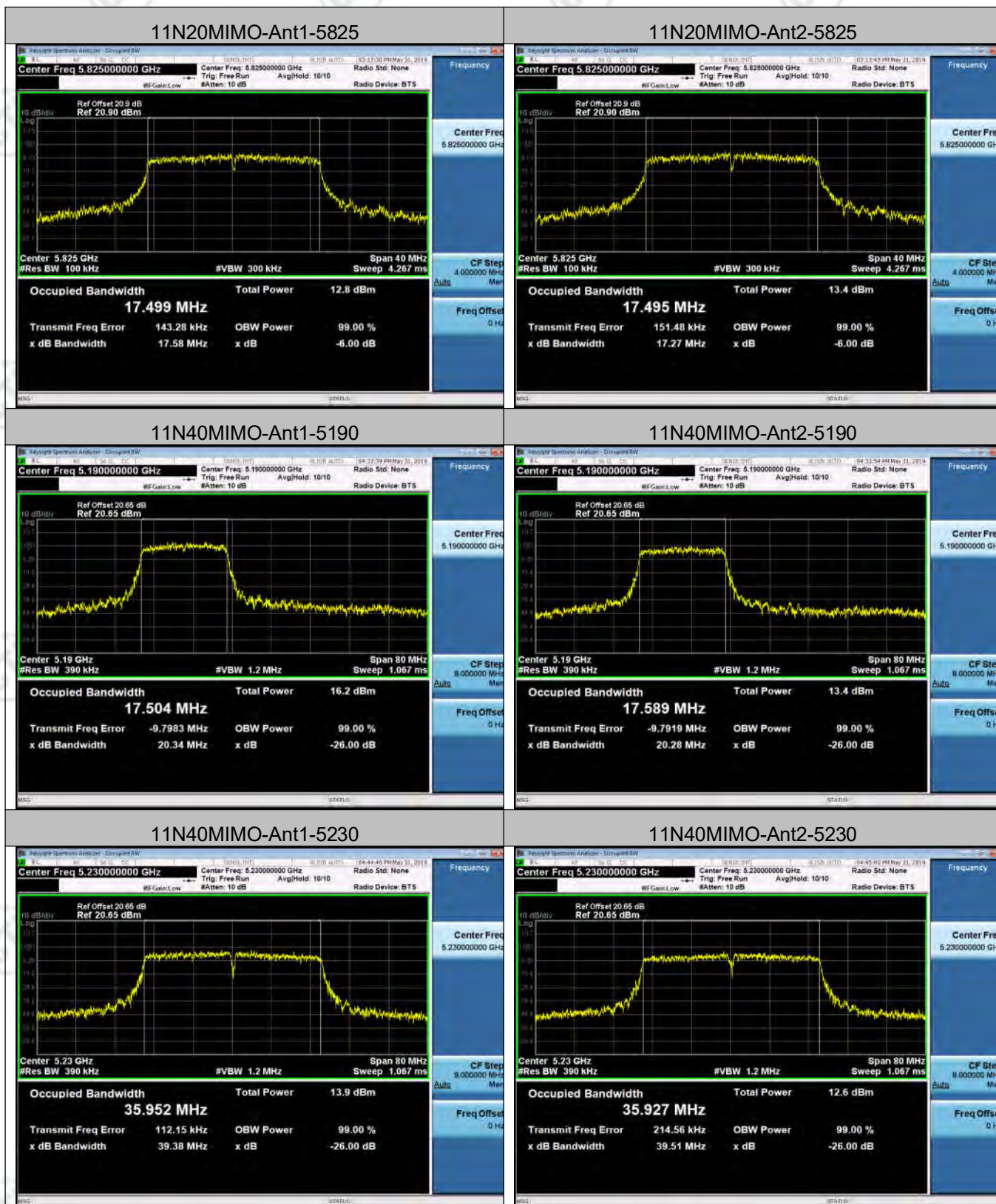


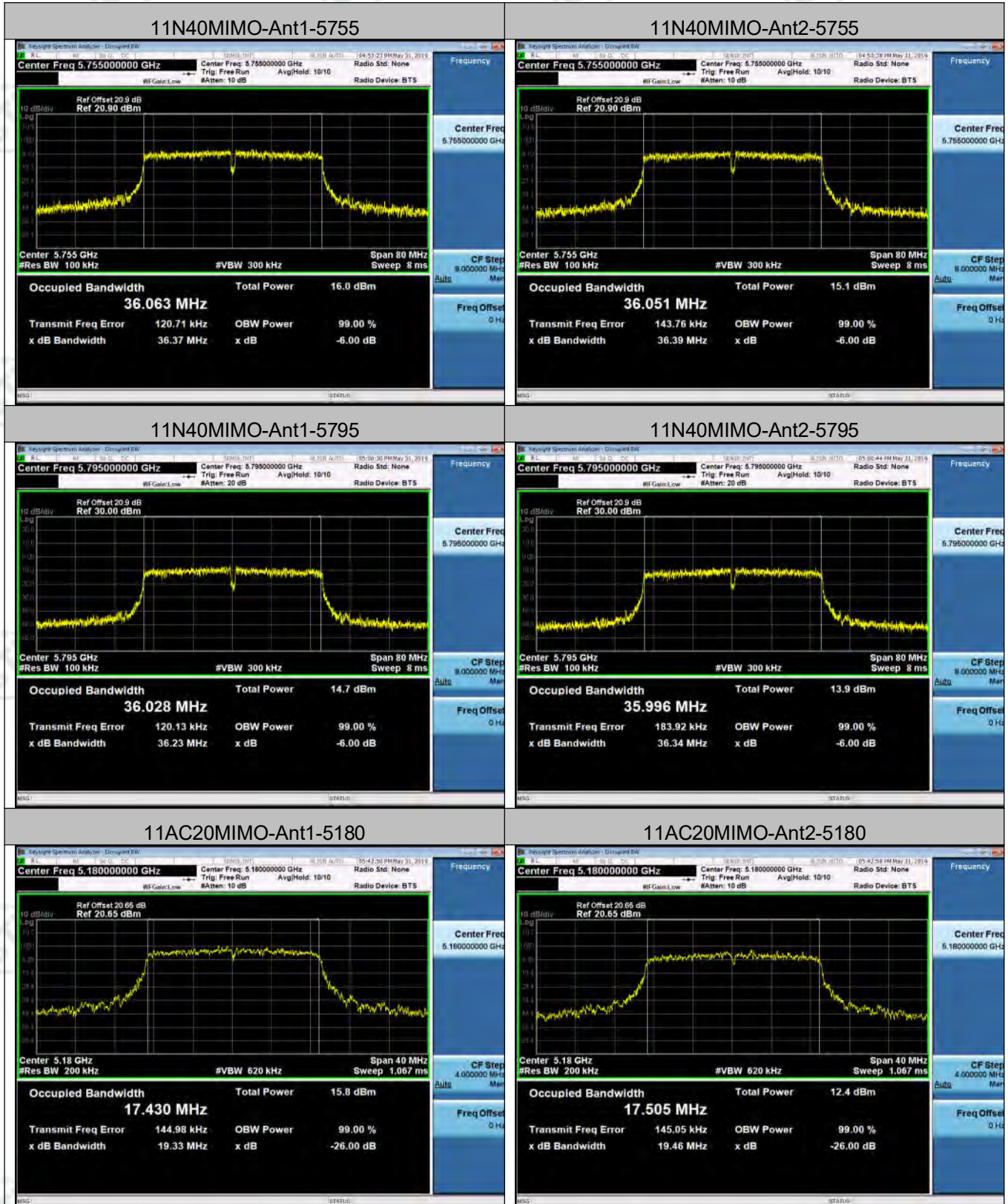


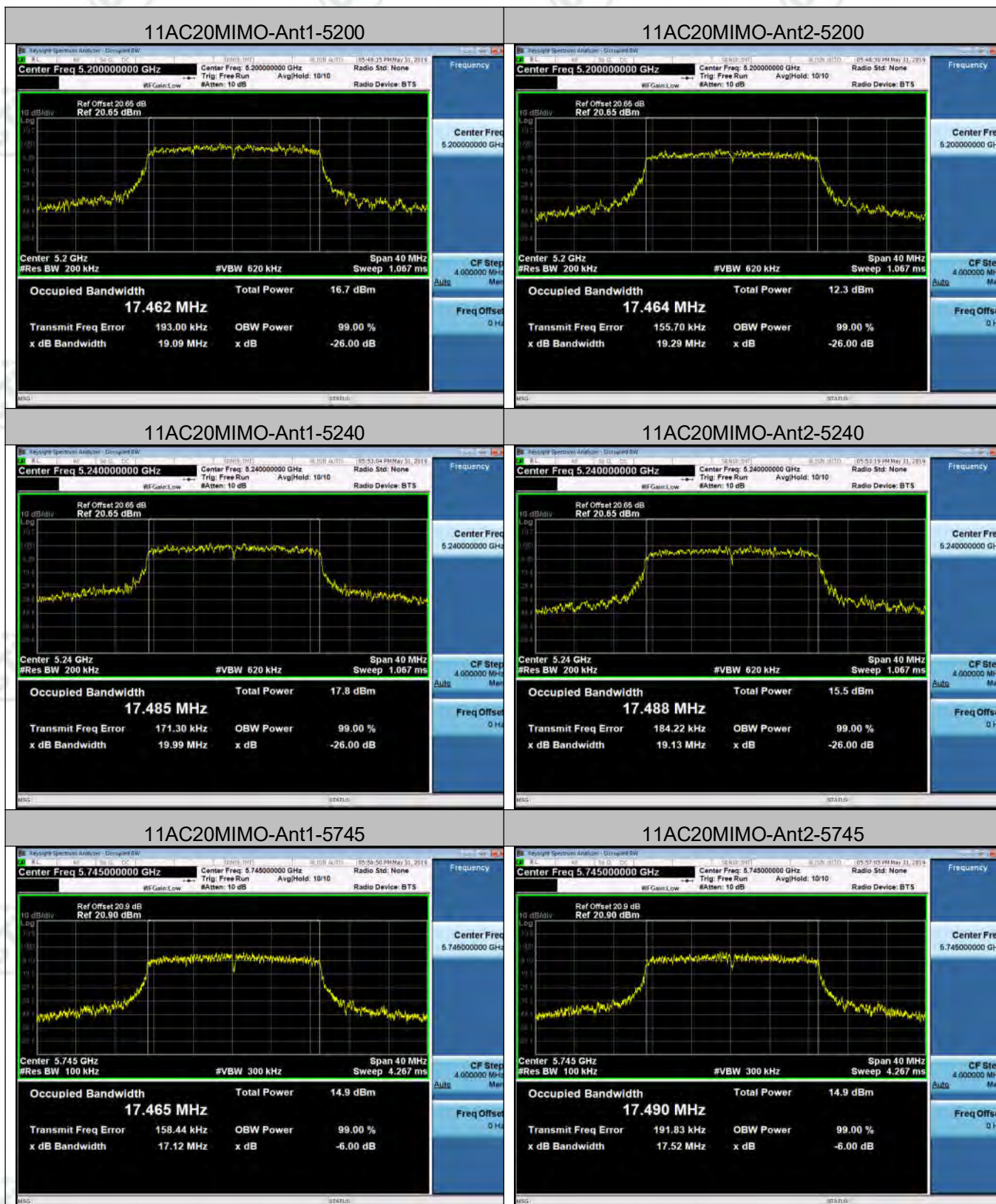


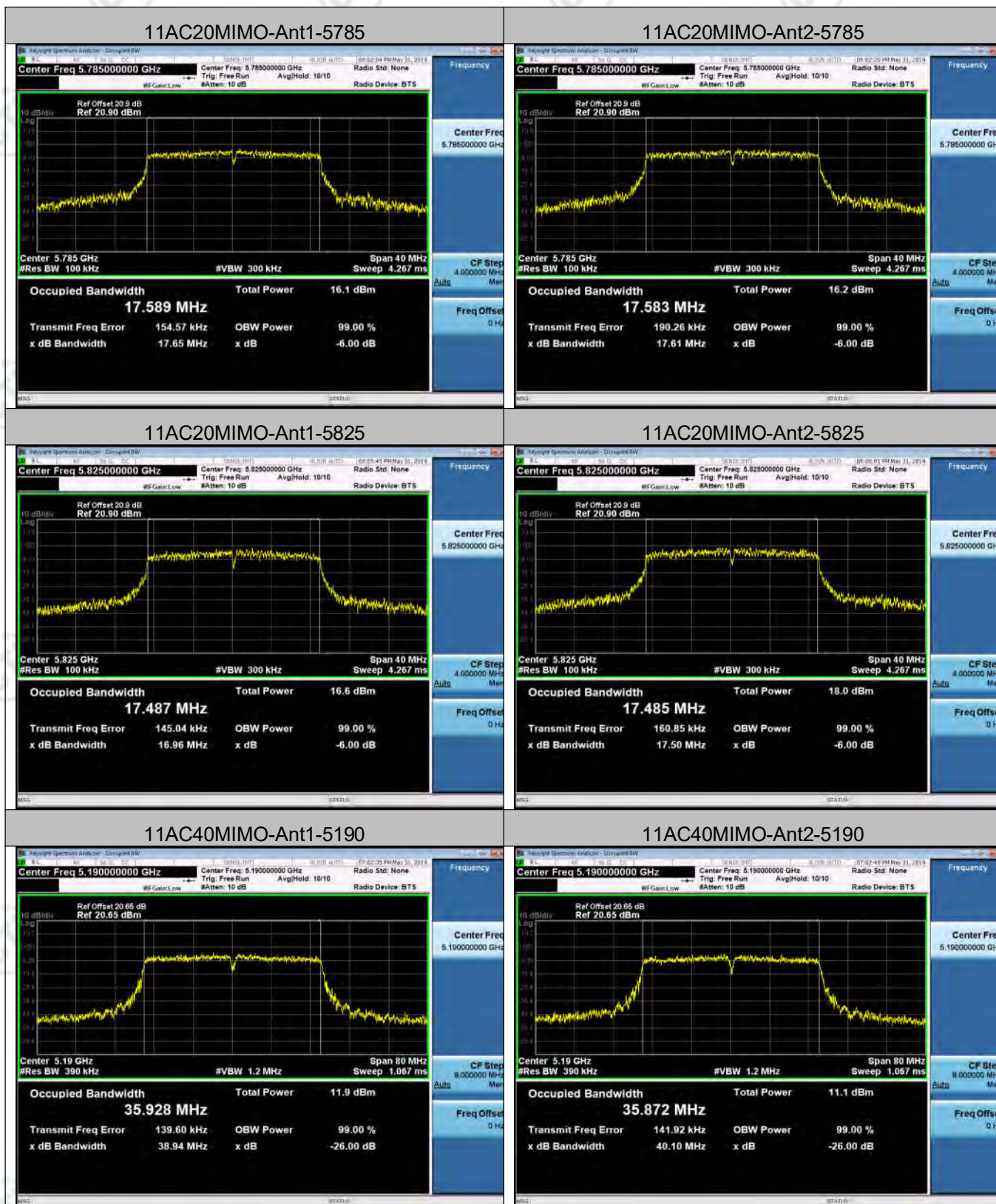


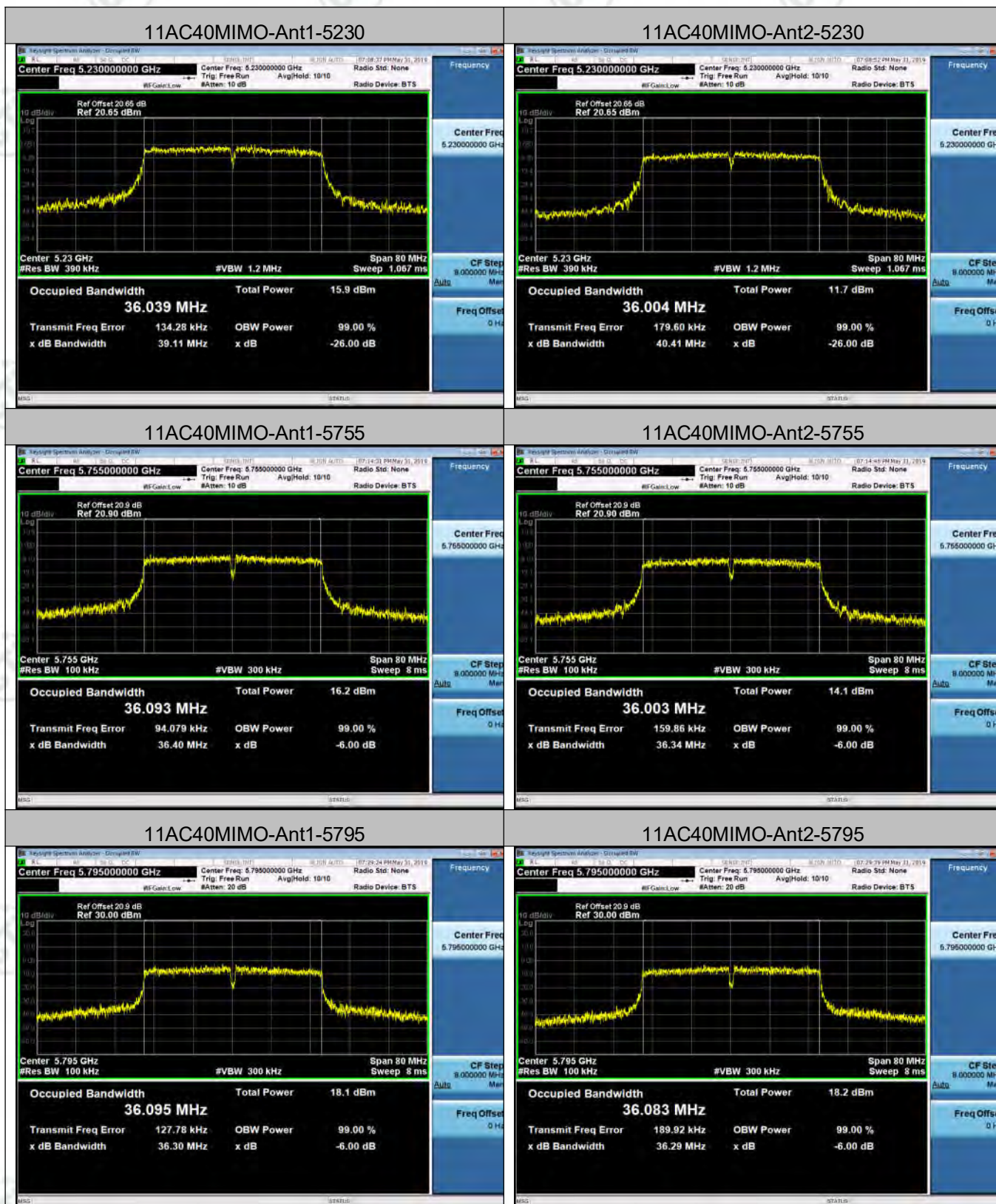


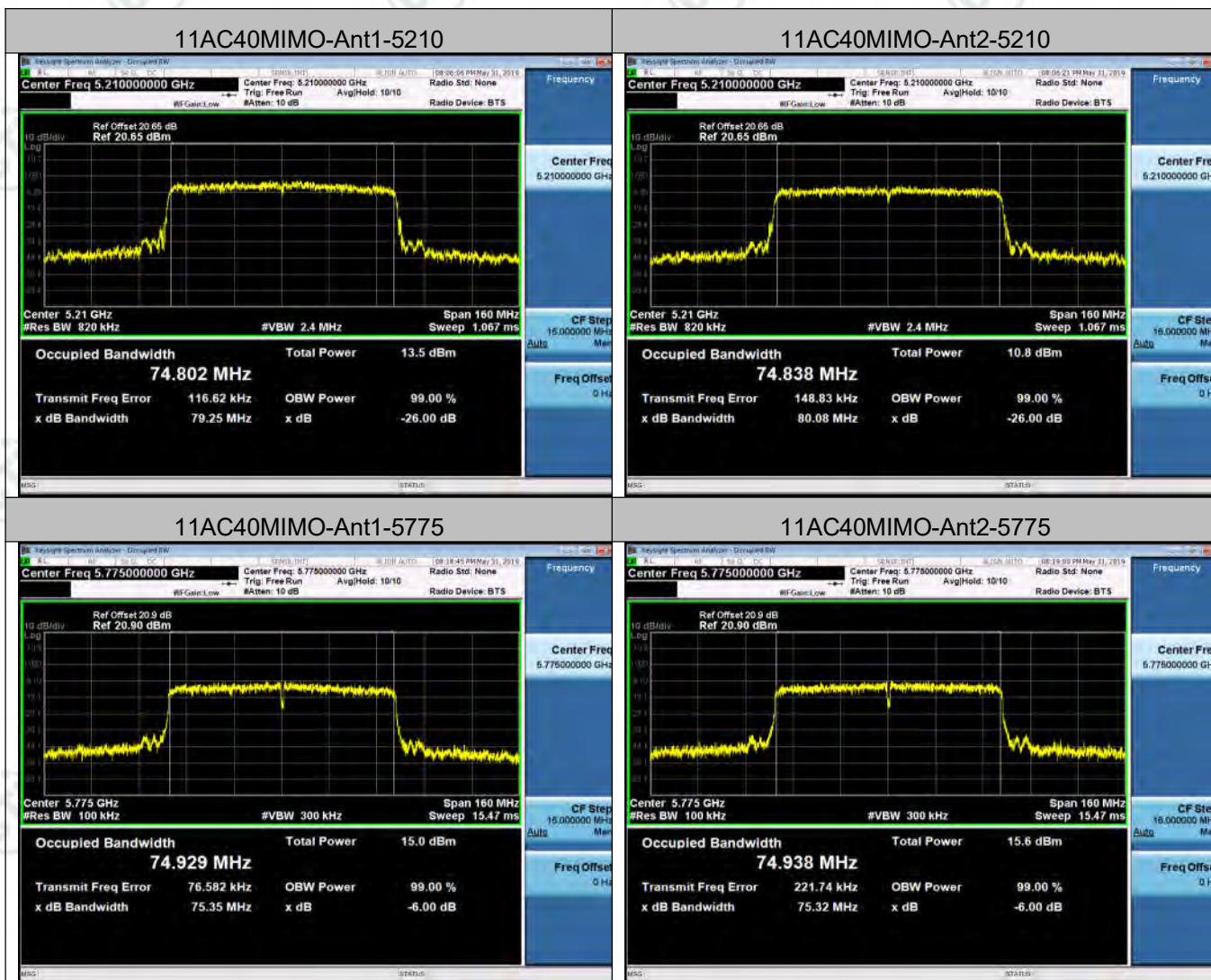












Appendix B): Maximum Conduct Output Power Result Table

Test Mode	Antenna	Channel	Meas.Level [dBm]	Av.Power [dBm]	Verdict
11A	Ant1	5180	13.27	13.27	PASS
11A	Ant2	5180	13.09	13.09	PASS
11A	Ant1	5200	13.76	13.76	PASS
11A	Ant2	5200	12.59	12.59	PASS
11A	Ant1	5240	12.98	12.98	PASS
11A	Ant2	5240	13	13	PASS
11A	Ant1	5745	12.83	12.83	PASS
11A	Ant2	5745	13.17	13.17	PASS
11A	Ant1	5785	12.64	12.64	PASS
11A	Ant2	5785	13.2	13.2	PASS
11A	Ant1	5825	12.81	12.81	PASS
11A	Ant2	5825	13.72	13.72	PASS

Test Mode	Antenna	Channel	Meas.Level [dBm]	Av.Power [dBm]	Verdict
11N20SISO	Ant1	5180	13.62	13.62	PASS
11N20SISO	Ant2	5180	12.65	12.65	PASS
11N20SISO	Ant1	5200	13.97	13.97	PASS
11N20SISO	Ant2	5200	11.5	11.5	PASS
11N20SISO	Ant1	5240	13.67	13.67	PASS
11N20SISO	Ant2	5240	11.74	11.74	PASS
11N20SISO	Ant1	5745	13.27	13.27	PASS
11N20SISO	Ant2	5745	13.08	13.08	PASS
11N20SISO	Ant1	5785	13.02	13.02	PASS
11N20SISO	Ant2	5785	13.02	13.02	PASS
11N20SISO	Ant1	5825	12.83	12.83	PASS
11N20SISO	Ant2	5825	13.2	13.2	PASS
11N40SISO	Ant1	5190	14.73	14.73	PASS
11N40SISO	Ant2	5190	13.46	13.46	PASS
11N40SISO	Ant1	5230	13.74	13.74	PASS
11N40SISO	Ant2	5230	13	13	PASS
11N40SISO	Ant1	5755	14.05	14.05	PASS
11N40SISO	Ant2	5755	14.17	14.17	PASS
11N40SISO	Ant1	5795	13.52	13.52	PASS
11N40SISO	Ant2	5795	12.67	12.67	PASS

Test Mode	Antenna	Channel	Meas.Level [dBm]	Av.Power [dBm]	Verdict
11AC20SISO	Ant1	5180	13.25	13.25	PASS
11AC20SISO	Ant2	5180	13.14	13.14	PASS
11AC20SISO	Ant1	5200	13.51	13.51	PASS
11AC20SISO	Ant2	5200	13.23	13.23	PASS
11AC20SISO	Ant1	5240	13.24	13.24	PASS
11AC20SISO	Ant2	5240	13.26	13.26	PASS
11AC20SISO	Ant1	5745	13.06	13.06	PASS
11AC20SISO	Ant2	5745	13.58	13.58	PASS
11AC20SISO	Ant1	5785	13.12	13.12	PASS
11AC20SISO	Ant2	5785	14.11	14.11	PASS
11AC20SISO	Ant1	5825	13.54	13.54	PASS
11AC20SISO	Ant2	5825	14.31	14.31	PASS
11AC40SISO	Ant1	5190	13.54	13.54	PASS
11AC40SISO	Ant2	5190	12.74	12.74	PASS
11AC40SISO	Ant1	5230	13.98	13.98	PASS
11AC40SISO	Ant2	5230	12.85	12.85	PASS
11AC40SISO	Ant1	5755	13.64	13.64	PASS
11AC40SISO	Ant2	5755	13.51	13.51	PASS
11AC40SISO	Ant1	5795	13.26	13.26	PASS
11AC40SISO	Ant2	5795	13.53	13.53	PASS
11AC80SISO	Ant1	5210	13	13	PASS
11AC80SISO	Ant2	5210	14.31	14.31	PASS
11AC80SISO	Ant1	5775	12.62	12.62	PASS
11AC80SISO	Ant2	5775	13.21	13.21	PASS

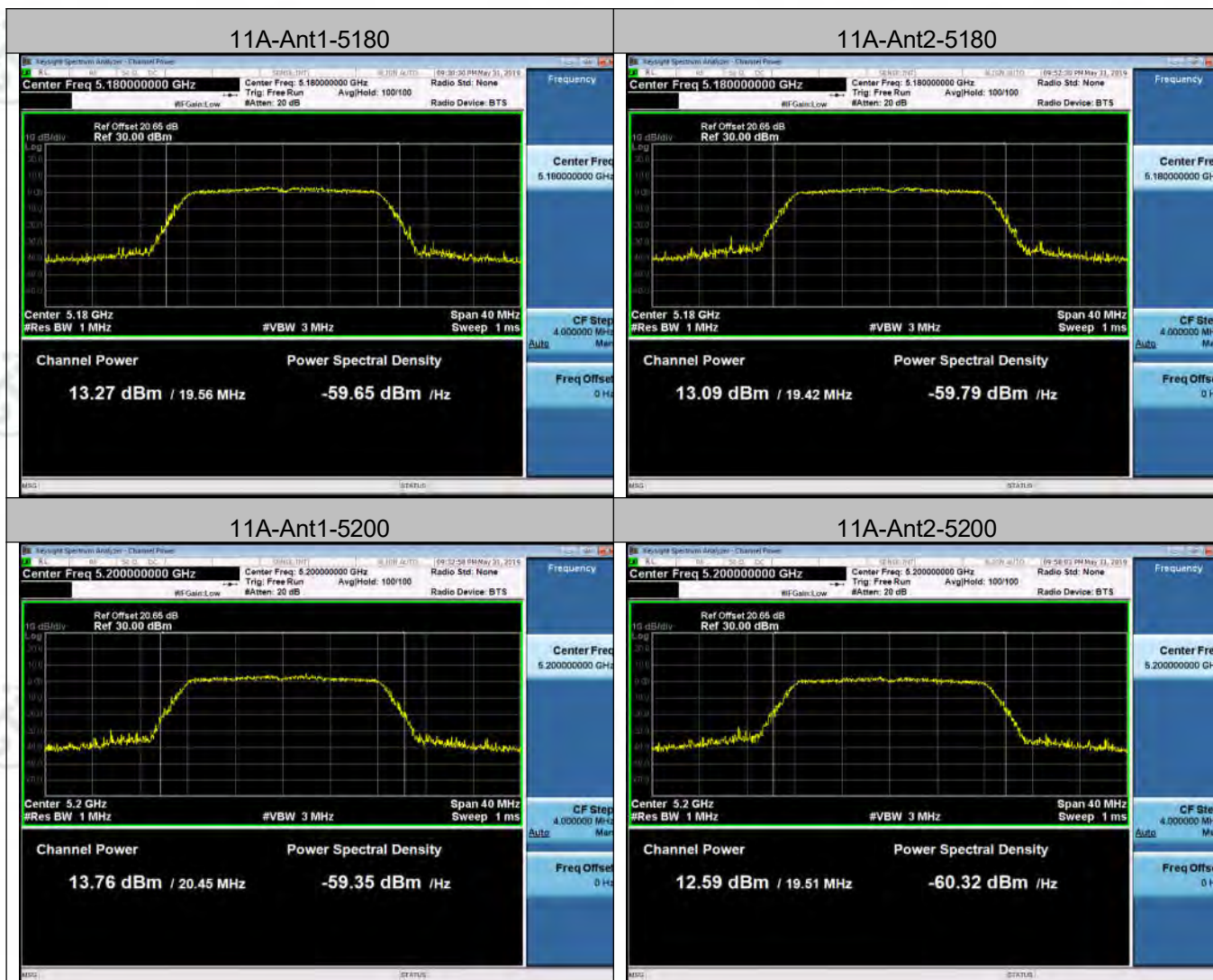
Test Mode	Antenna	Channel	Meas.Level [dBm]	Av.Power [dBm]	Verdict
11N20MIMO	Ant1	5180	11.53	11.53	PASS
11N20MIMO	Ant2	5180	10.73	10.73	PASS
11N20MIMO	Ant 1+2	5180	14.16	14.16	PASS
11N20MIMO	Ant1	5200	10.92	10.92	PASS
11N20MIMO	Ant2	5200	10.63	10.63	PASS
11N20MIMO	Ant 1+2	5200	13.79	13.79	PASS
11N20MIMO	Ant1	5240	10.47	10.47	PASS
11N20MIMO	Ant2	5240	10.37	10.37	PASS
11N20MIMO	Ant 1+2	5240	13.43	13.43	PASS
11N20MIMO	Ant1	5745	11.29	11.29	PASS
11N20MIMO	Ant2	5745	10.9	10.9	PASS
11N20MIMO	Ant 1+2	5745	14.11	14.11	PASS
11N20MIMO	Ant1	5785	11.76	11.76	PASS
11N20MIMO	Ant2	5785	11.45	11.45	PASS
11N20MIMO	Ant 1+2	5785	14.62	14.62	PASS
11N20MIMO	Ant1	5825	10.55	10.55	PASS
11N20MIMO	Ant2	5825	11.05	11.05	PASS
11N20MIMO	Ant 1+2	5825	13.82	13.82	PASS
11N40MIMO	Ant1	5190	11.03	11.03	PASS
11N40MIMO	Ant2	5190	11.13	11.13	PASS
11N40MIMO	Ant 1+2	5190	14.53	14.53	PASS
11N40MIMO	Ant1	5230	10.93	10.93	PASS
11N40MIMO	Ant2	5230	11.04	11.04	PASS
11N40MIMO	Ant 1+2	5230	14.0	14.0	PASS
11N40MIMO	Ant1	5755	11	11	PASS
11N40MIMO	Ant2	5755	11.08	11.08	PASS
11N40MIMO	Ant 1+2	5755	14.05	14.05	PASS
11N40MIMO	Ant1	5795	10.84	10.84	PASS
11N40MIMO	Ant2	5795	11.5	11.5	PASS

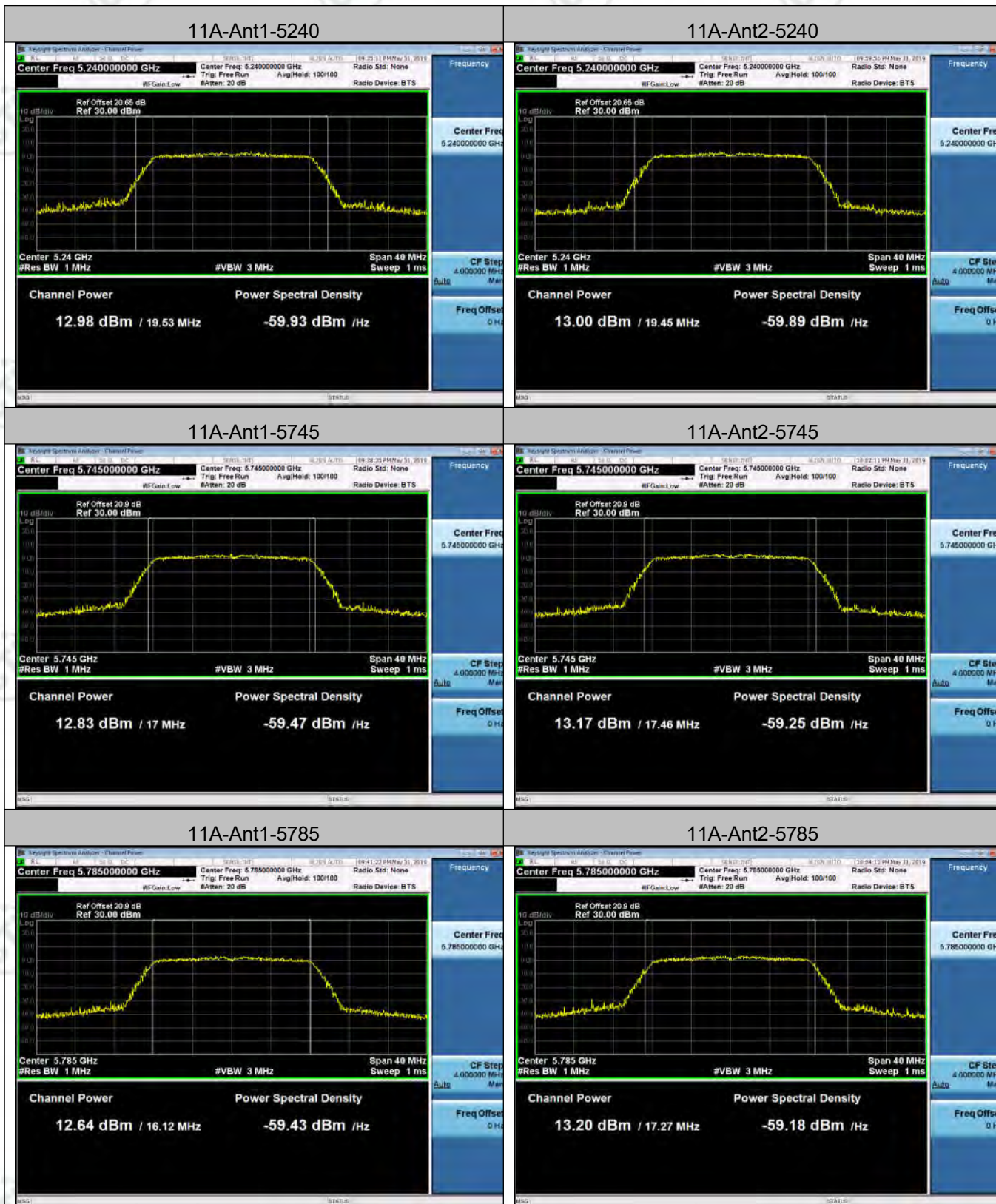
11N40MIMO	Ant 1+2	5795	14.19	14.19	PASS
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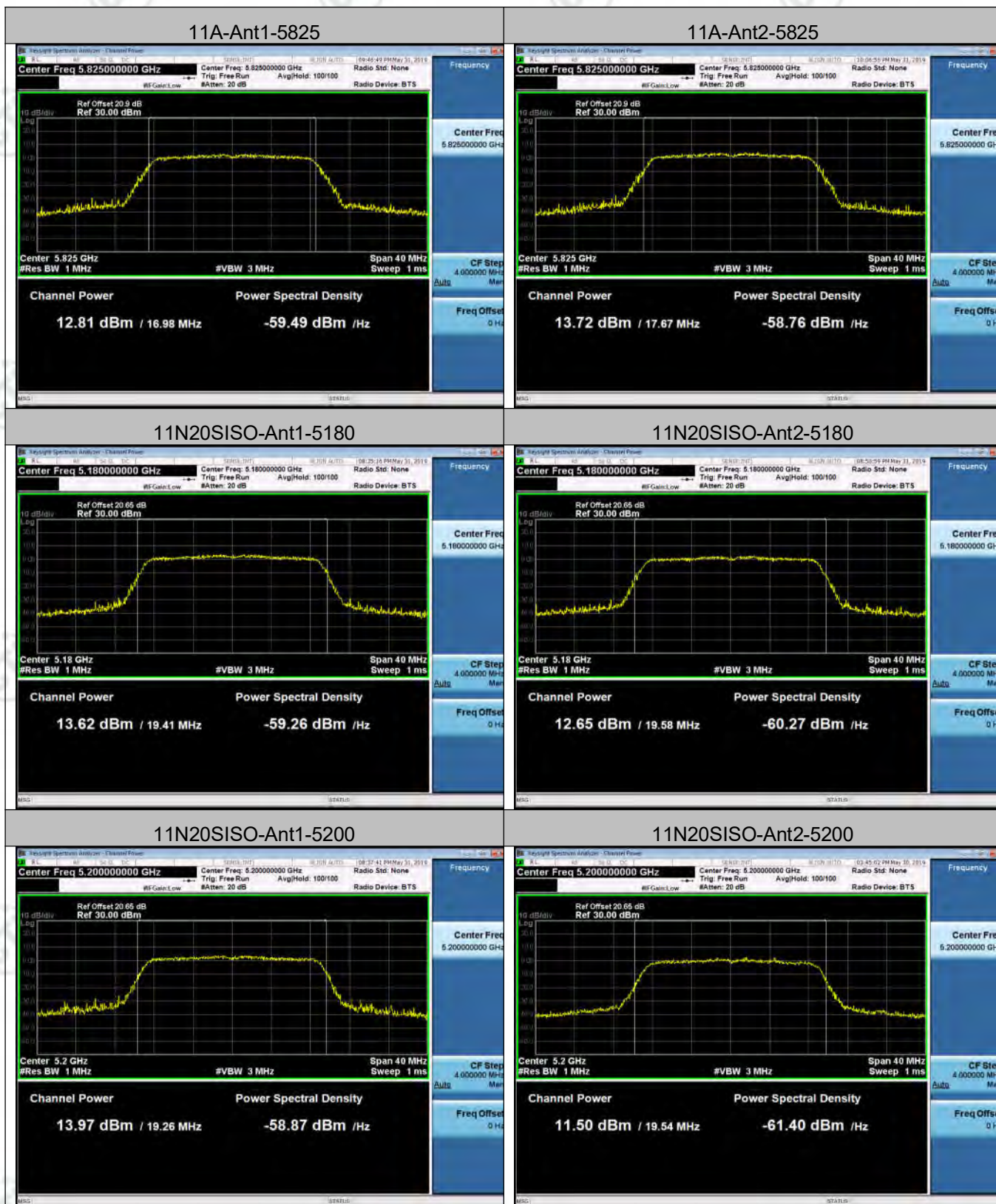
Test Mode	Antenna	Channel	Meas.Level [dBm]	Av.Power [dBm]	Verdict
11AC20MIMO	Ant1	5180	11.6	11.6	PASS
11AC20MIMO	Ant2	5180	11.17	11.17	PASS
11AC20MIMO	Ant 1+2	5180	14.40	14.40	PASS
11AC20MIMO	Ant1	5200	11.23	11.23	PASS
11AC20MIMO	Ant2	5200	10.07	10.07	PASS
11AC20MIMO	Ant 1+2	5200	13.70	13.70	PASS
11AC20MIMO	Ant1	5240	10.79	10.79	PASS
11AC20MIMO	Ant2	5240	10.33	10.33	PASS
11AC20MIMO	Ant 1+2	5240	13.58	13.58	PASS
11AC20MIMO	Ant2	5745	11.38	11.38	PASS
11AC20MIMO	Ant 1+2	5745	14.00	14.00	PASS
11AC20MIMO	Ant1	5785	10.72	10.72	PASS
11AC20MIMO	Ant2	5785	11.51	11.51	PASS
11AC20MIMO	Ant 1+2	5785	14.14	14.14	PASS
11AC20MIMO	Ant1	5825	10.73	10.73	PASS
11AC20MIMO	Ant2	5825	11.11	11.11	PASS
11AC20MIMO	Ant 1+2	5825	13.93	13.93	PASS
11AC40MIMO	Ant1	5190	11.14	11.14	PASS
11AC40MIMO	Ant2	5190	10.58	10.58	PASS
11AC40MIMO	Ant 1+2	5190	13.88	13.88	PASS
11AC40MIMO	Ant1	5230	10.72	10.72	PASS
11AC40MIMO	Ant2	5230	10.18	10.18	PASS
11AC40MIMO	Ant 1+2	5230	13.47	13.47	PASS
11AC40MIMO	Ant1	5755	10.68	10.68	PASS
11AC40MIMO	Ant2	5755	10.28	10.28	PASS
11AC40MIMO	Ant 1+2	5755	13.49	13.49	PASS
11AC40MIMO	Ant1	5795	10.58	10.58	PASS
11AC40MIMO	Ant2	5795	10.82	10.82	PASS

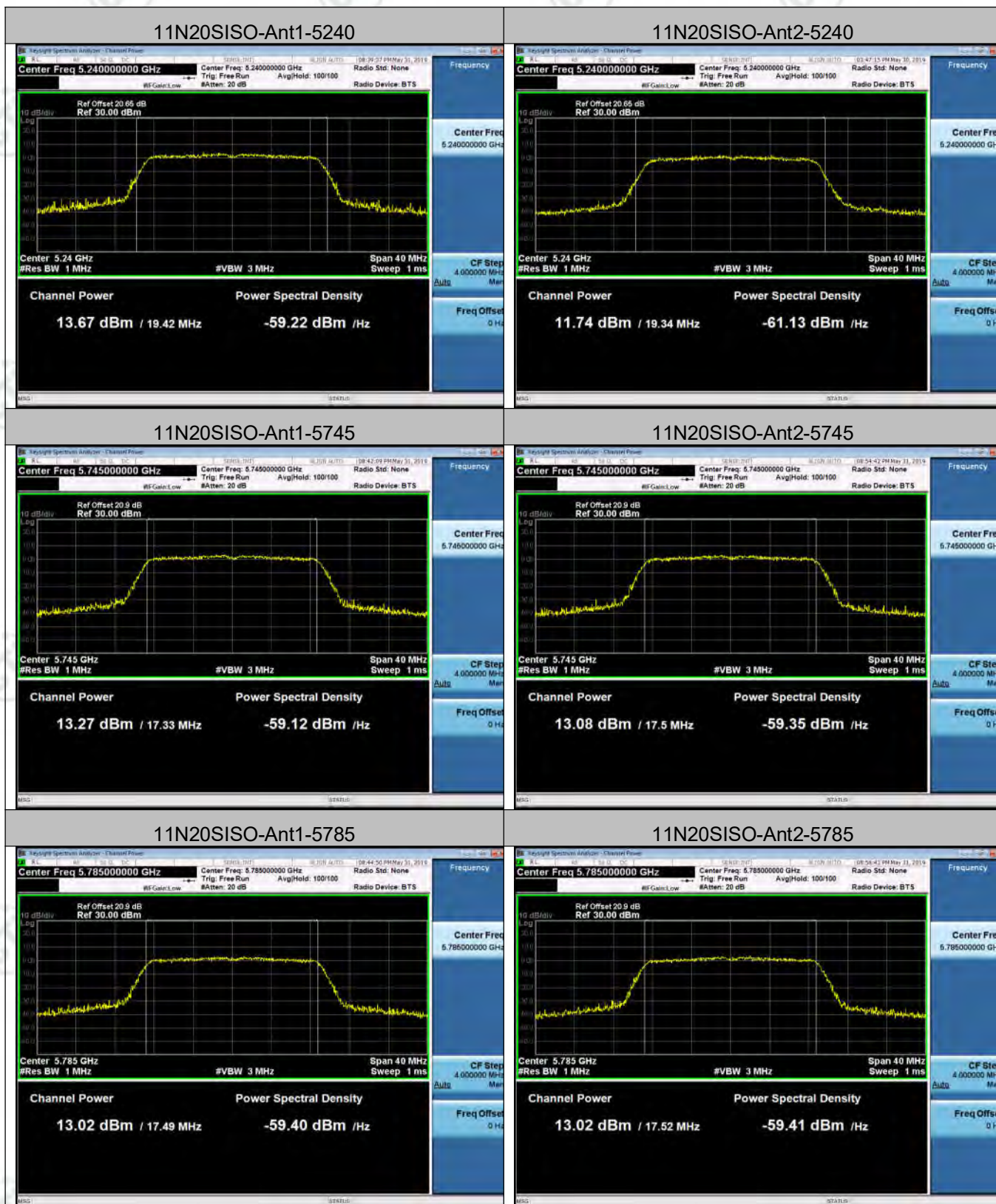
11AC40MIMO	Ant 1+2	5795	13.71	13.71	PASS
11AC80MIMO	Ant1	5210	10.15	10.15	PASS
11AC80MIMO	Ant2	5210	10.02	10.02	PASS
11AC80MIMO	Ant 1+2	5210	13.10	13.10	PASS
11AC80MIMO	Ant1	5775	10.67	10.67	PASS
11AC80MIMO	Ant2	5775	11.02	11.02	PASS
11AC80MIMO	Ant 1+2	5775	13.86	13.86	PASS

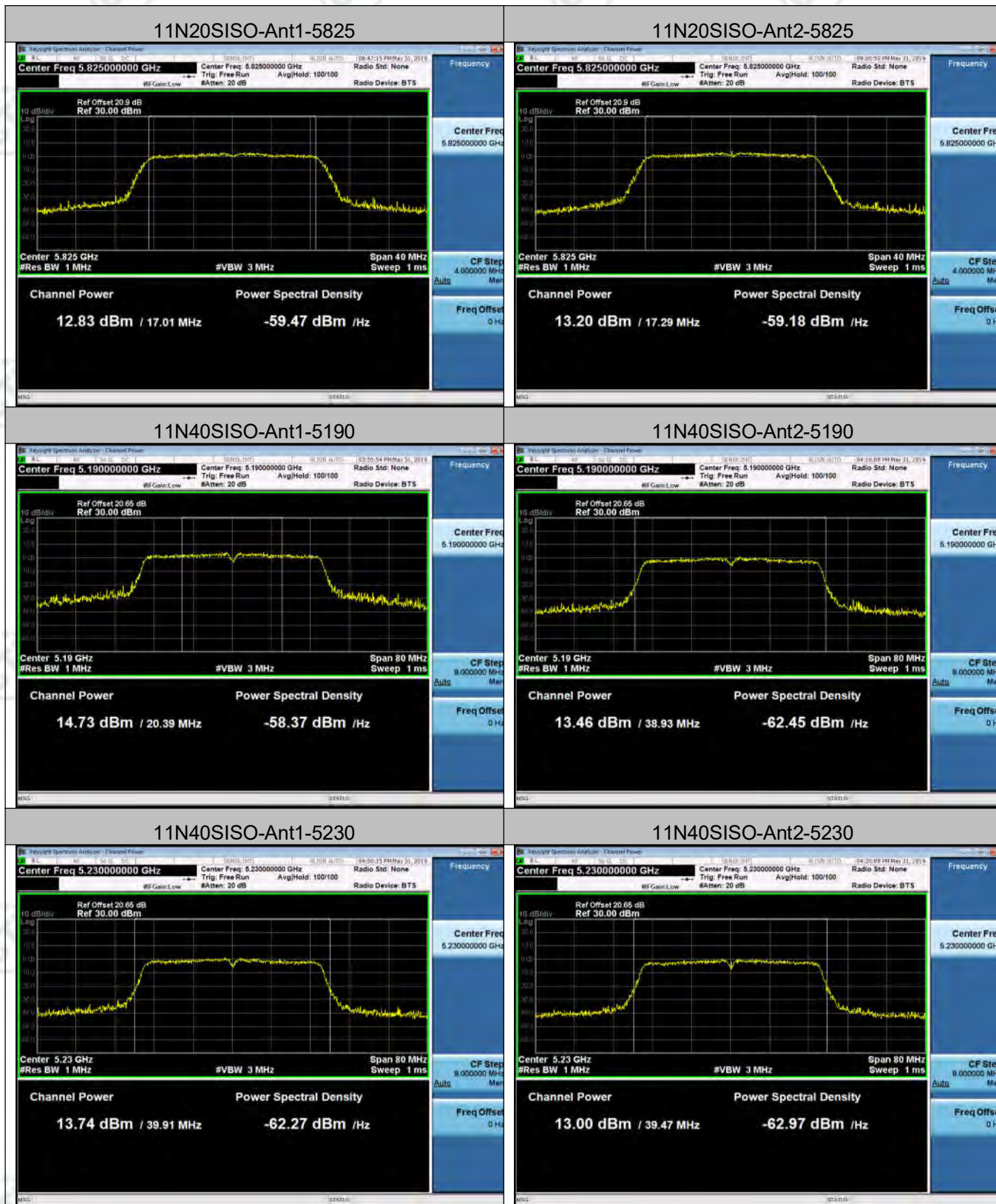
Test Graph

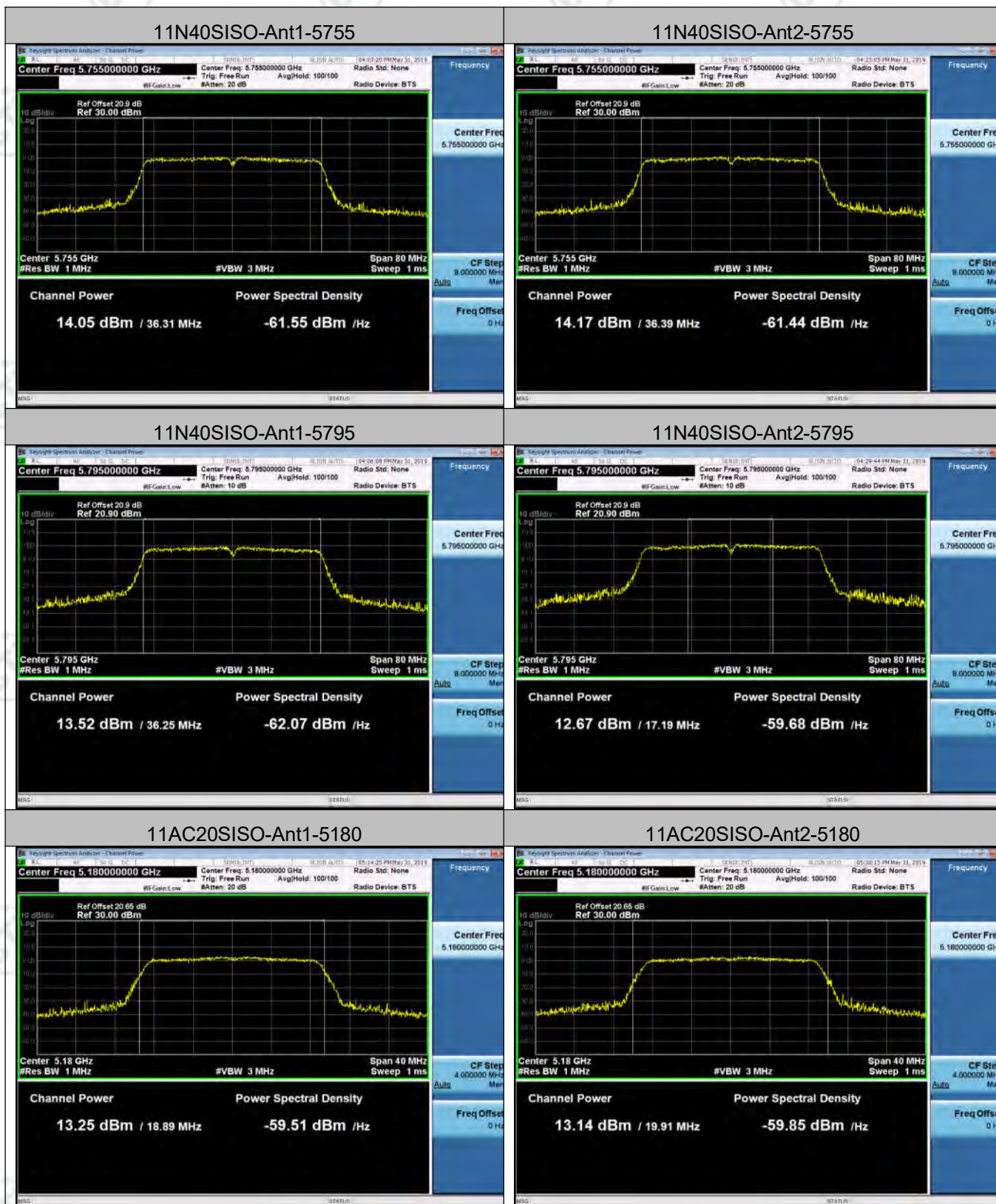


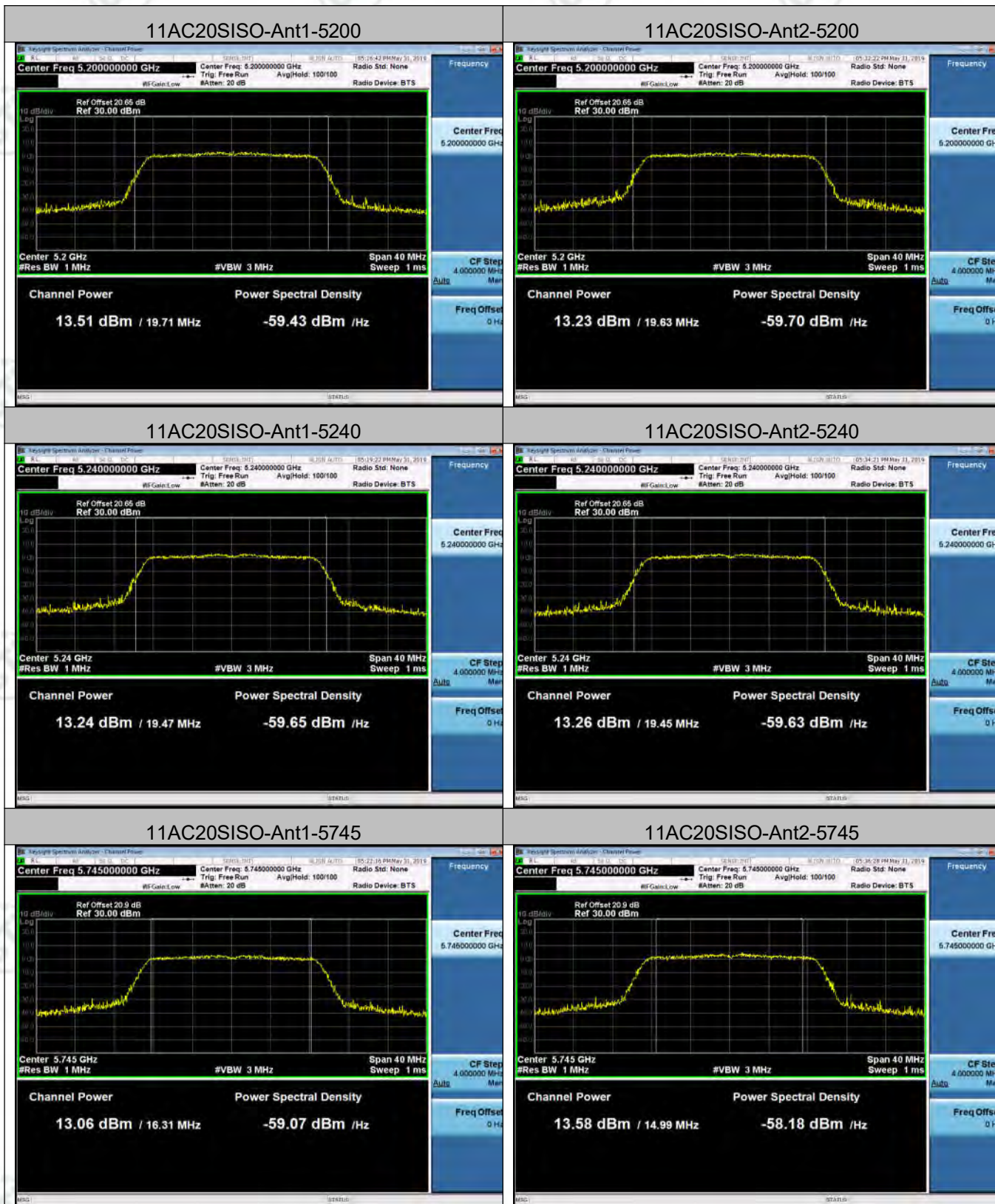


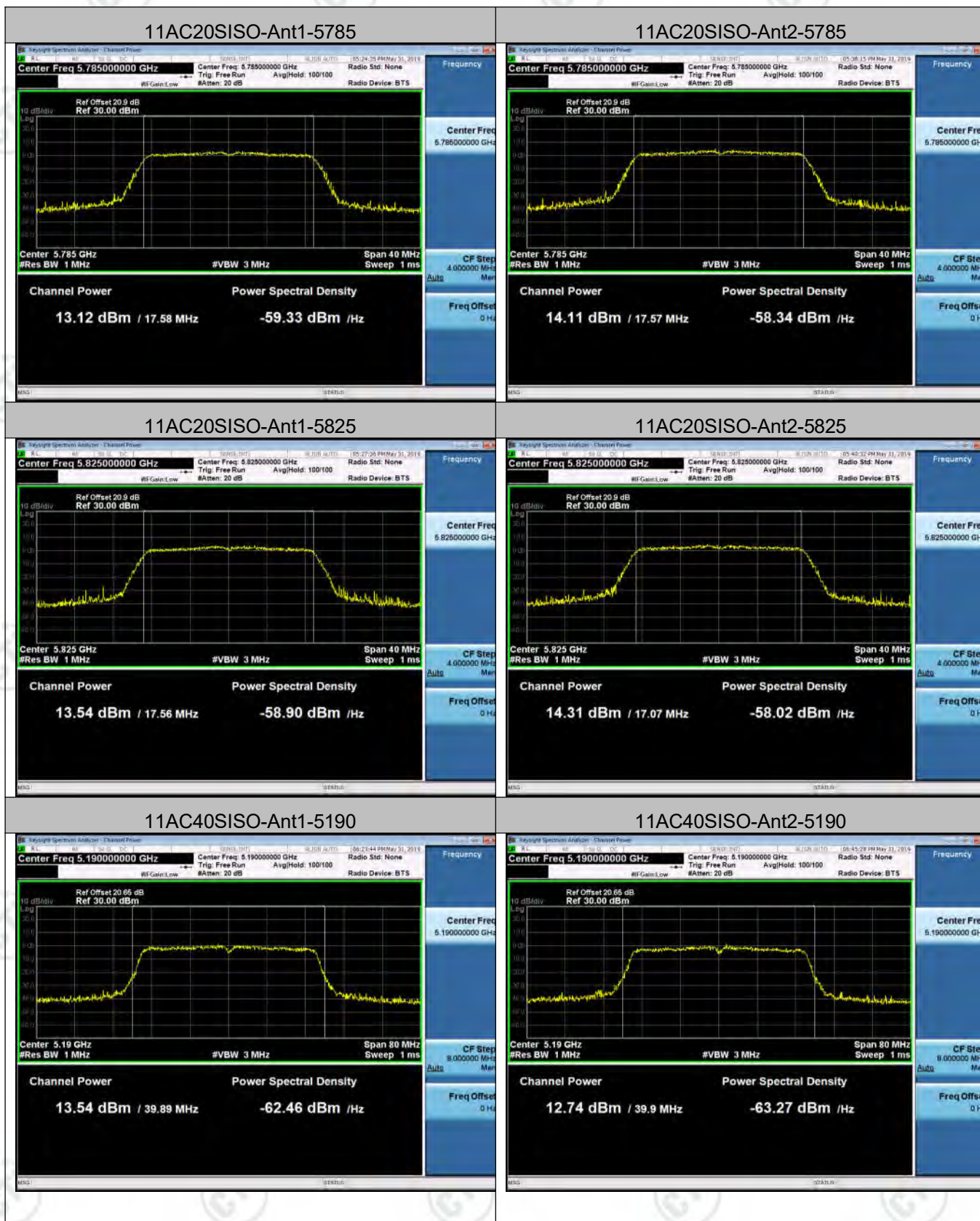


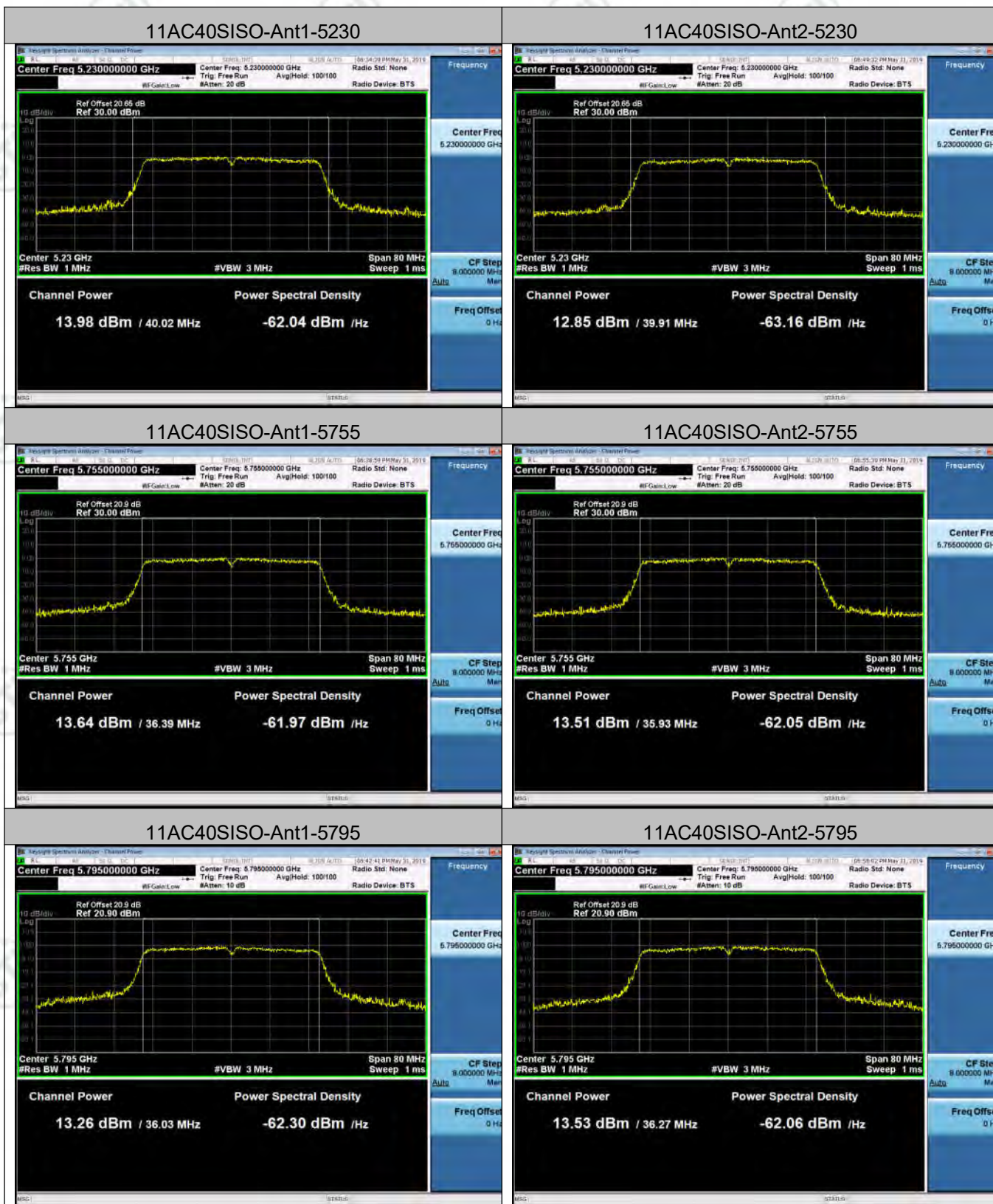


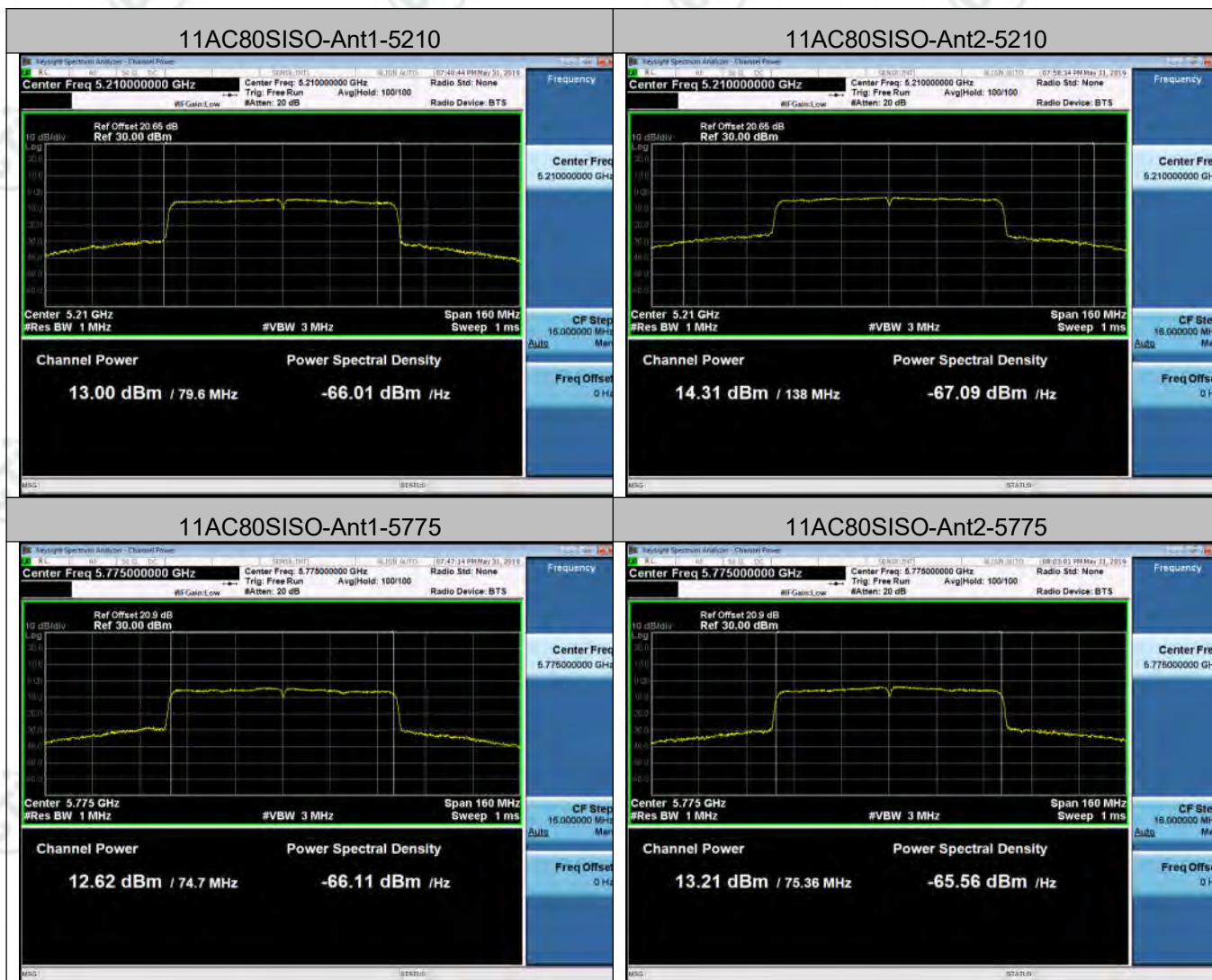


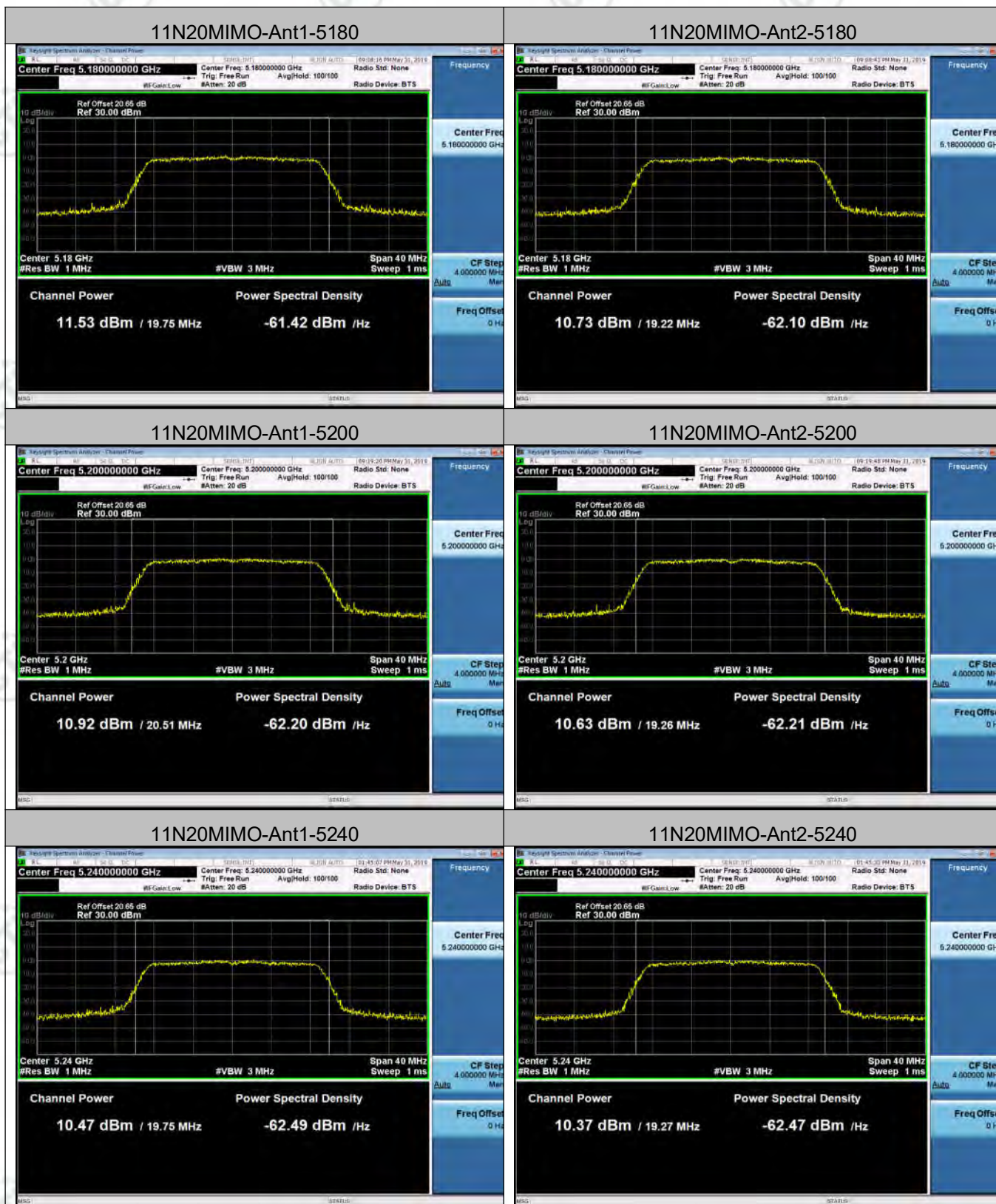


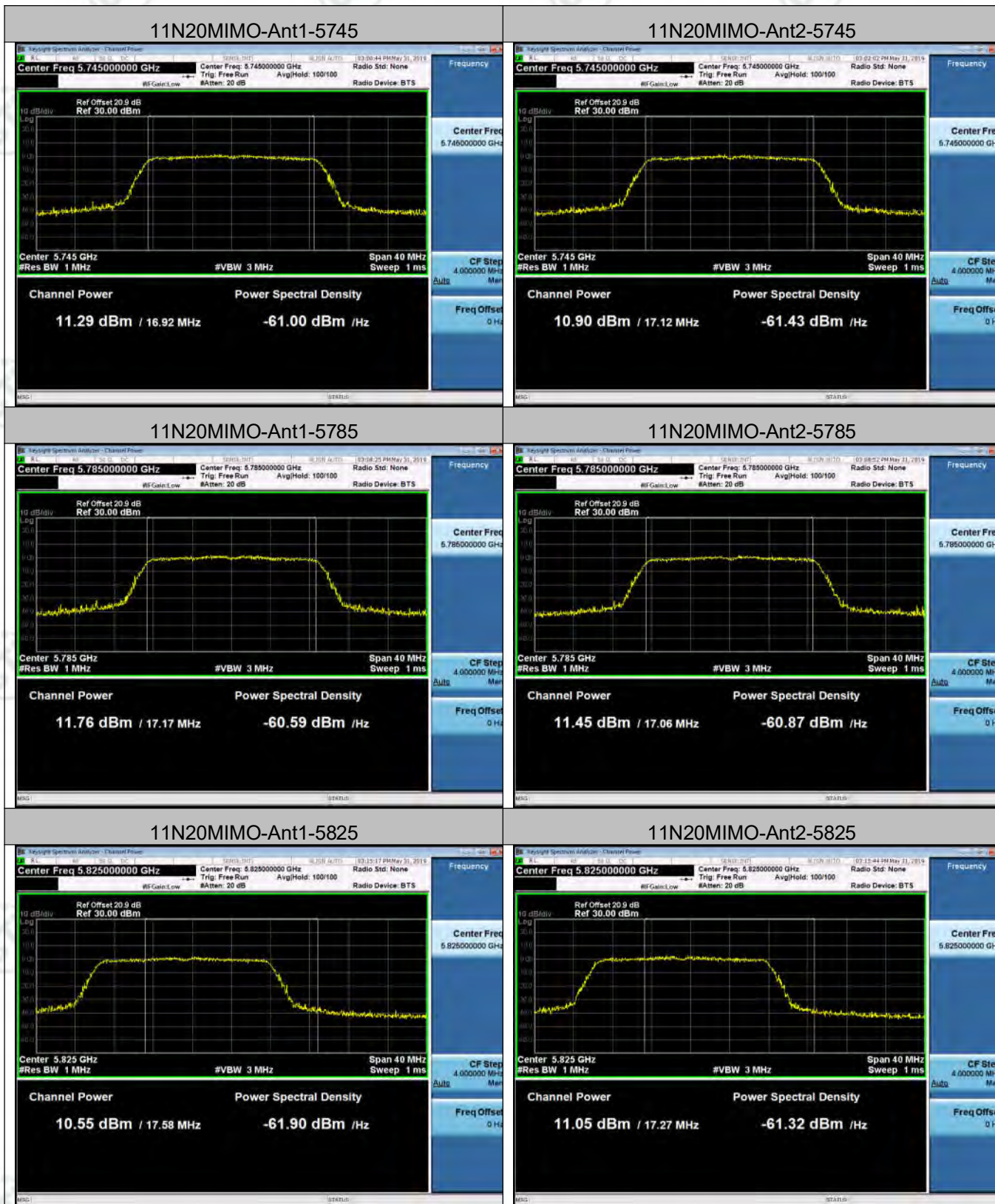


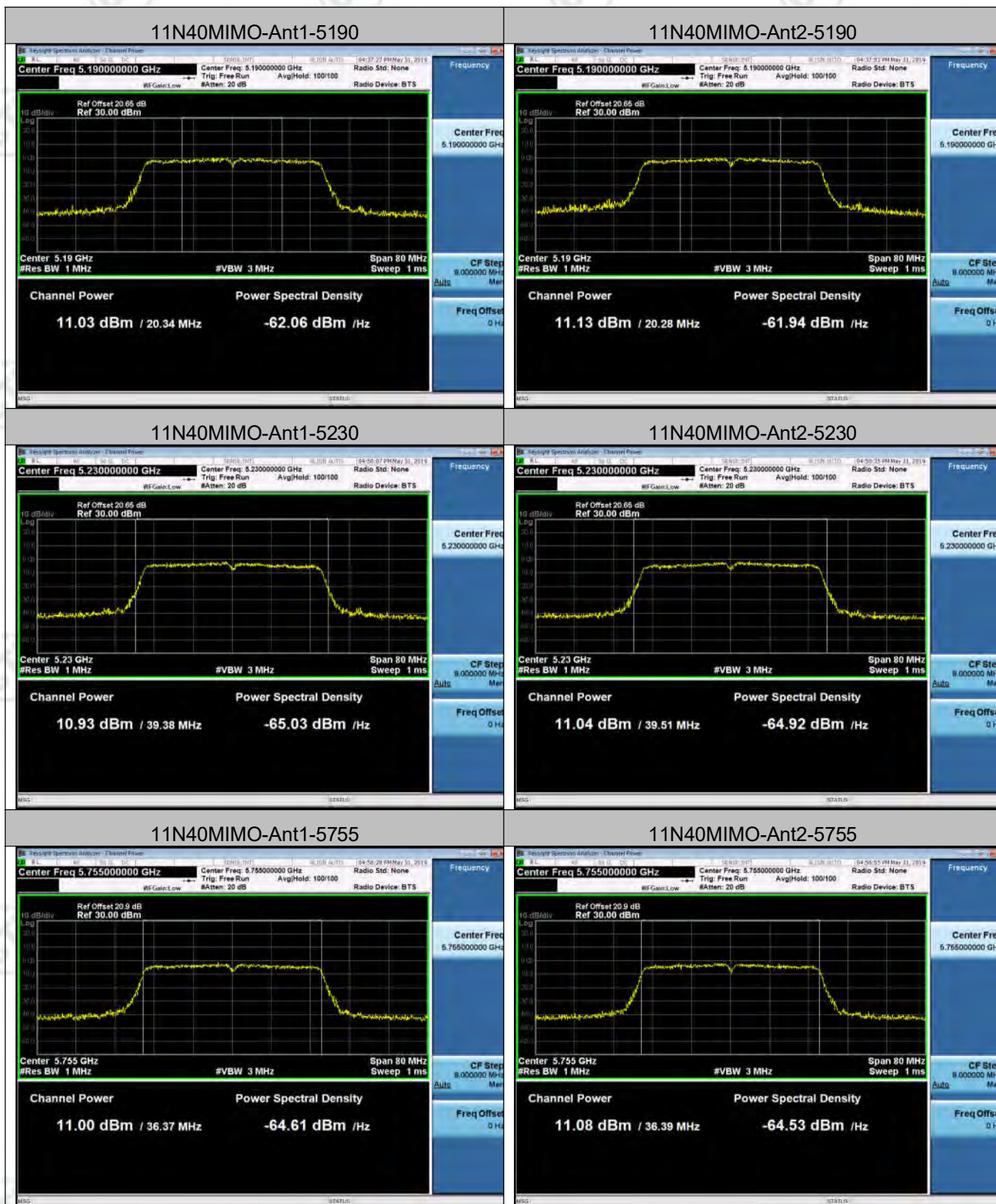


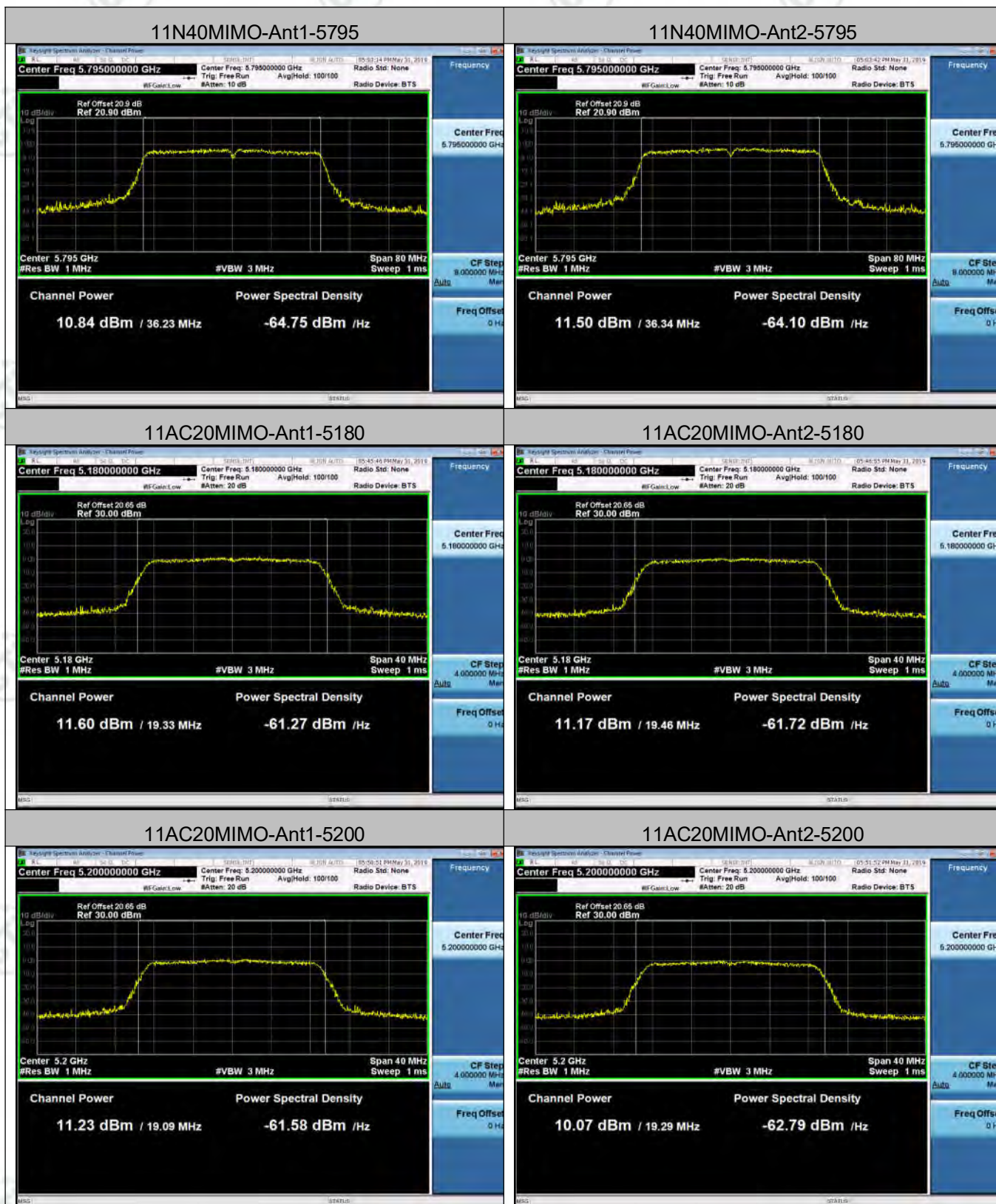


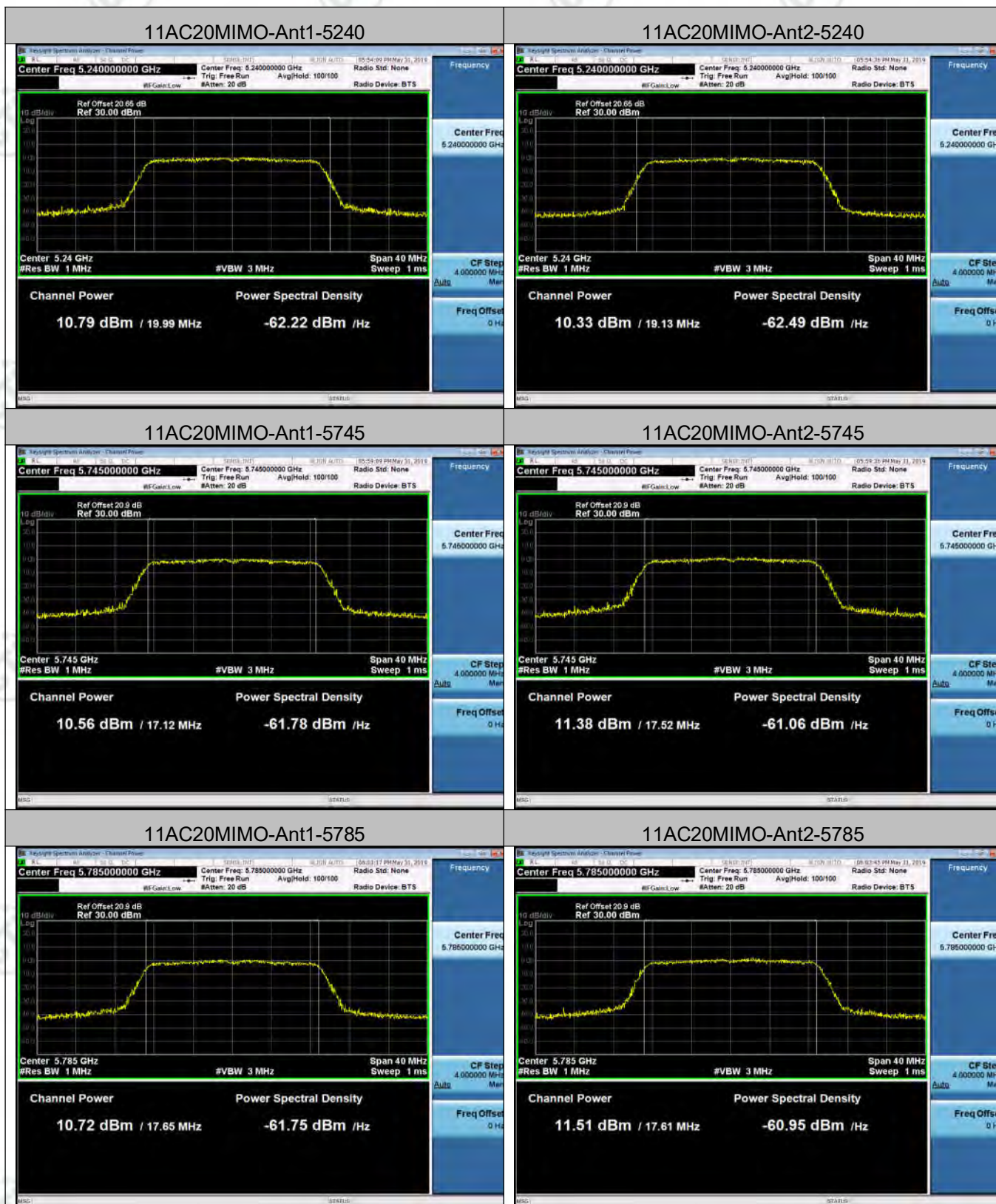


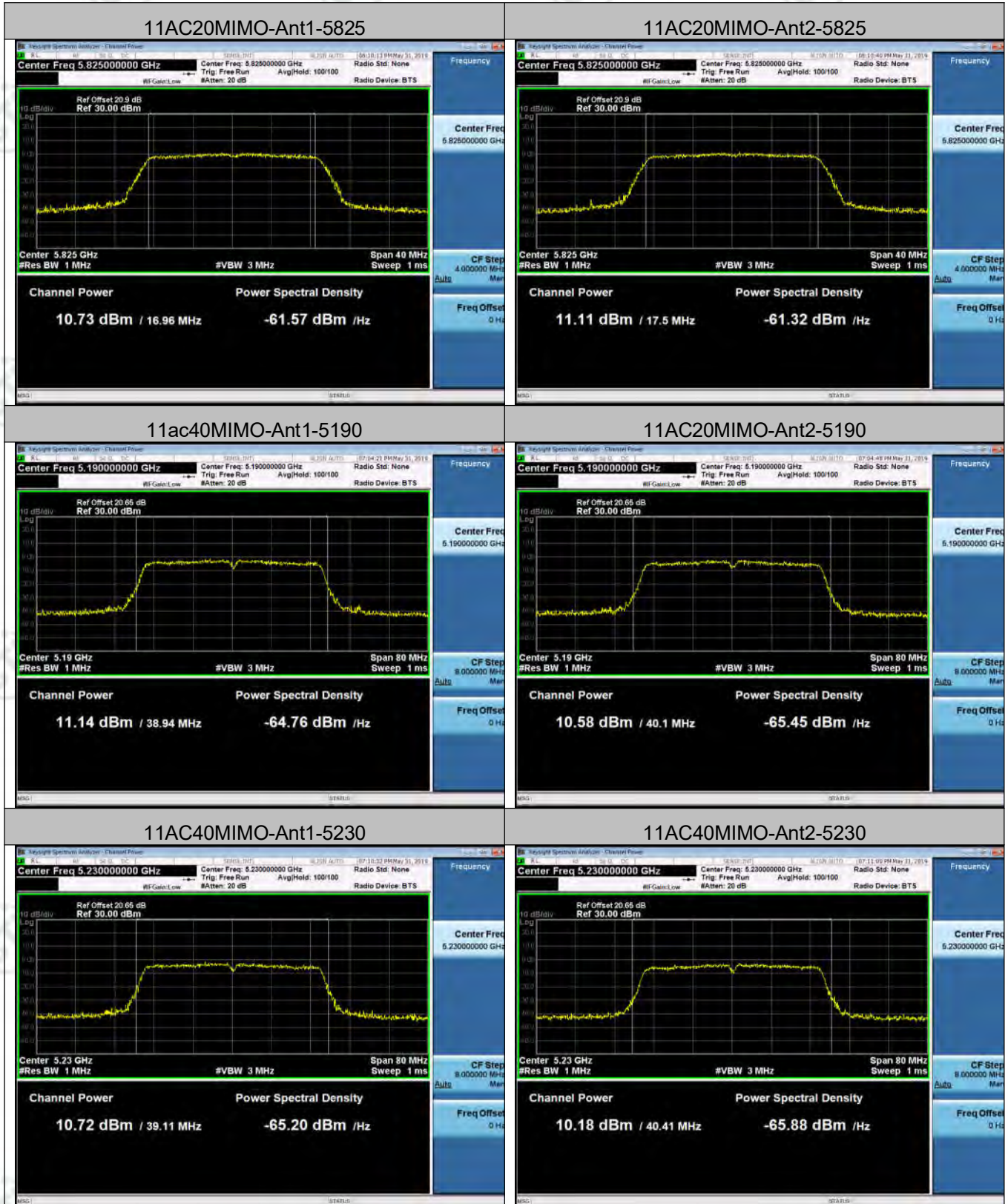


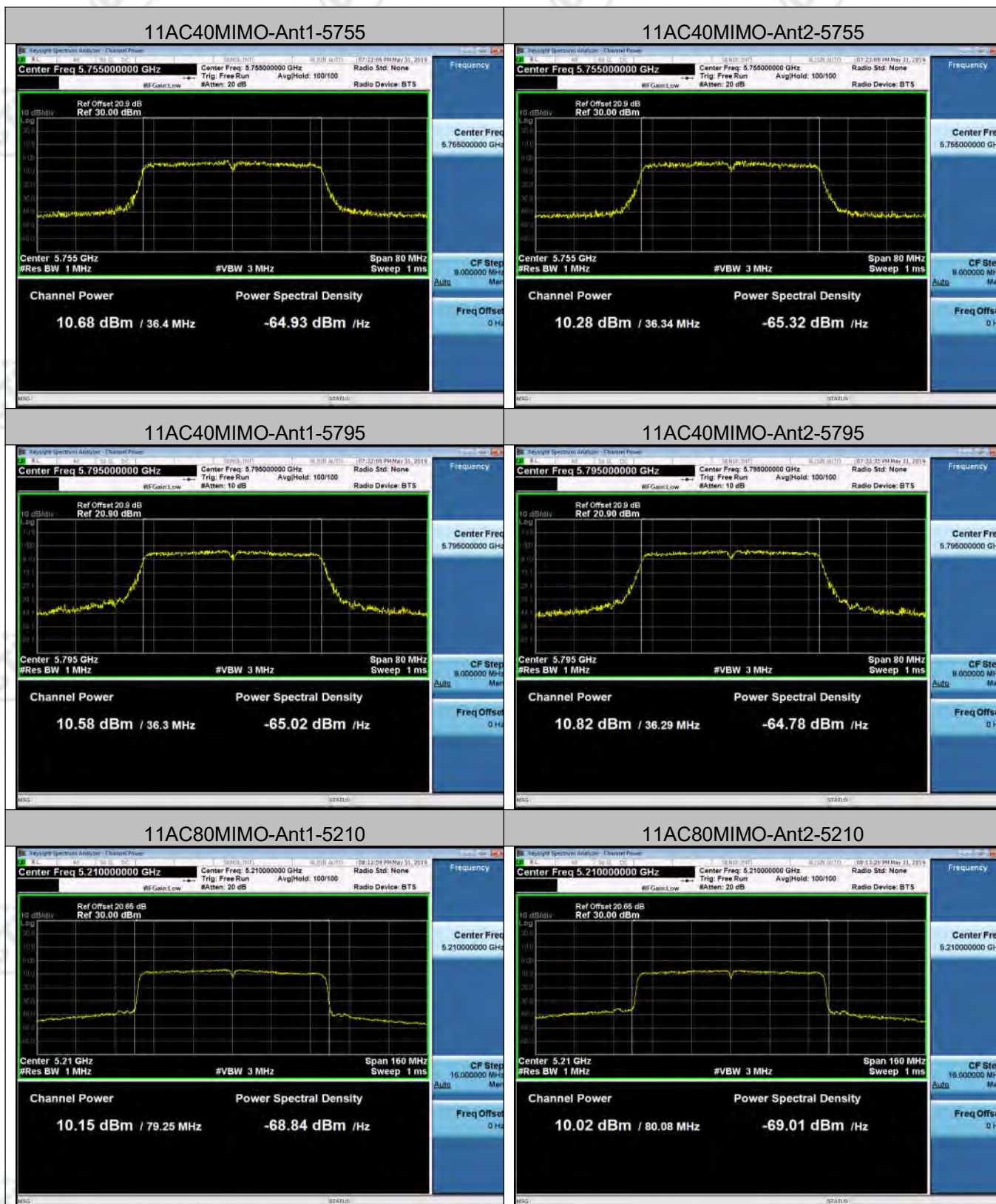


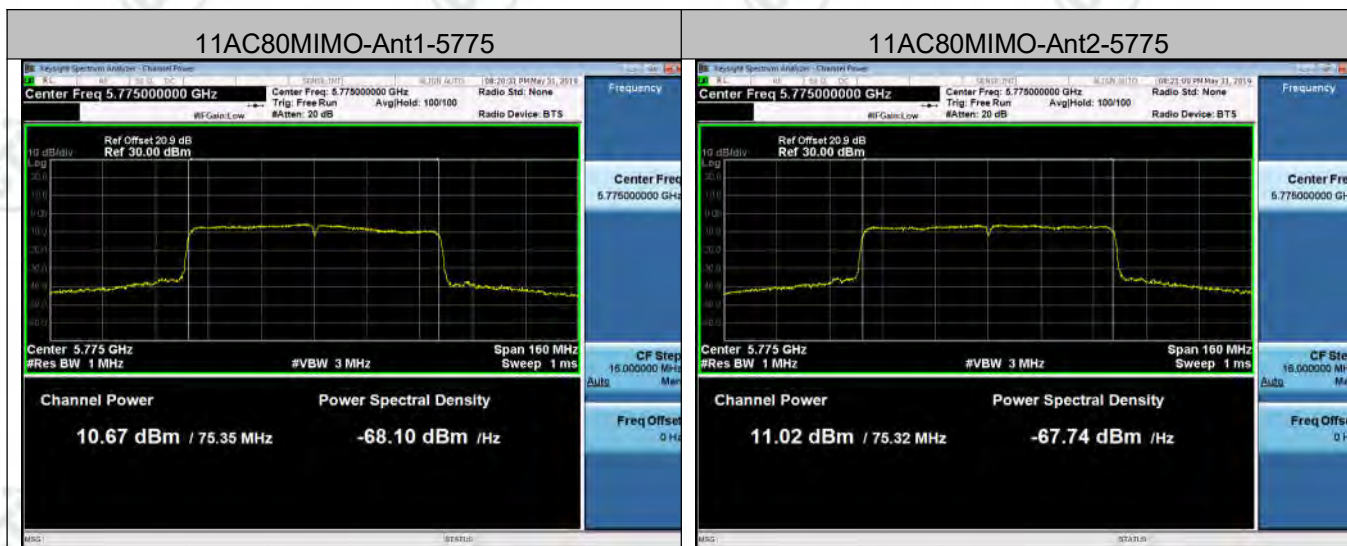












Appendix C): Power Spectral Density

Result Table

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11A	Ant1	5180	6.92	6.92	PASS
11A	Ant2	5180	5.99	5.99	PASS
11A	Ant1	5200	6.86	6.86	PASS
11A	Ant2	5200	5.37	5.37	PASS
11A	Ant1	5240	6.10	6.10	PASS
11A	Ant2	5240	5.76	5.76	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11A	Ant1	5745	0.25	2.47	PASS
11A	Ant2	5745	0.49	2.71	PASS
11A	Ant1	5785	-0.07	2.14	PASS
11A	Ant2	5785	0.04	2.26	PASS
11A	Ant1	5825	0.51	2.73	PASS
11A	Ant2	5825	0.55	2.77	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N20SISO	Ant1	5180	6.36	6.36	PASS
11N20SISO	Ant2	5180	5.63	5.63	PASS
11N20SISO	Ant1	5200	6.52	6.52	PASS
11N20SISO	Ant2	5200	4.95	4.95	PASS
11N20SISO	Ant1	5240	6.21	6.21	PASS
11N20SISO	Ant2	5240	4.64	4.64	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N20SISO	Ant1	5745	0.57	2.79	PASS
11N20SISO	Ant2	5745	0.18	2.40	PASS
11N20SISO	Ant1	5785	-0.35	1.87	PASS
11N20SISO	Ant2	5785	-0.10	2.12	PASS
11N20SISO	Ant1	5825	0.04	2.26	PASS
11N20SISO	Ant2	5825	0.16	2.38	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict

11N40SISO	Ant1	5190	6.99	6.99	PASS
11N40SISO	Ant2	5190	3.27	3.27	PASS
11N40SISO	Ant1	5230	3.71	3.71	PASS
11N40SISO	Ant2	5230	2.82	2.82	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N40SISO	Ant1	5755	-1.92	0.30	PASS
11N40SISO	Ant2	5755	-2.13	0.08	PASS
11N40SISO	Ant1	5795	-1.91	0.31	PASS
11N40SISO	Ant2	5795	0.01	2.23	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC20SISO	Ant1	5180	5.91	5.91	PASS
11AC20SISO	Ant2	5180	5.98	5.98	PASS
11AC20SISO	Ant1	5200	6.09	6.09	PASS
11AC20SISO	Ant2	5200	5.67	5.67	PASS
11AC20SISO	Ant1	5240	5.80	5.80	PASS
11AC20SISO	Ant2	5240	5.91	5.91	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC20SISO	Ant1	5745	0.00	2.22	PASS
11AC20SISO	Ant2	5745	1.22	3.44	PASS
11AC20SISO	Ant1	5785	0.01	2.23	PASS
11AC20SISO	Ant2	5785	1.23	3.45	PASS
11AC20SISO	Ant1	5825	0.52	2.73	PASS
11AC20SISO	Ant2	5825	1.30	3.51	PASS

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC40SISO	Ant1	5190	3.61	3.61	PASS
11AC40SISO	Ant2	5190	3.42	3.42	PASS
11AC40SISO	Ant1	5230	3.69	3.69	PASS
11AC40SISO	Ant2	5230	2.43	2.43	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC40SISO	Ant1	5755	-2.41	-0.19	PASS
11AC40SISO	Ant2	5755	-2.54	-0.32	PASS
11AC40SISO	Ant1	5795	-2.71	-0.49	PASS
11AC40SISO	Ant2	5795	-2.23	-0.01	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC80SISO	Ant1	5210	5.68	5.68	PASS
11AC80SISO	Ant2	5210	4.32	4.32	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC80SISO	Ant1	5775	-0.49	1.73	PASS
11AC80SISO	Ant2	5775	-0.49	1.73	PASS

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N20MIMO	Ant1	5180	4.29	4.29	PASS
11N20MIMO	Ant2	5180	3.57	3.57	PASS
11N20MIMO	Ant 1+2	5180	6.95	6.95	PASS
11N20MIMO	Ant1	5200	4.18	4.18	PASS
11N20MIMO	Ant2	5200	3.41	3.41	PASS
11N20MIMO	Ant 1+2	5200	6.82	6.82	PASS
11N20MIMO	Ant1	5240	2.77	2.77	PASS
11N20MIMO	Ant2	5240	3.18	3.18	PASS
11N20MIMO	Ant 1+2	5240	5.99	5.99	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N20MIMO	Ant1	5745	-2.06	0.16	PASS
11N20MIMO	Ant2	5745	-2.02	0.20	PASS
11N20MIMO	Ant 1+2	5745	0.96	0.96	PASS
11N20MIMO	Ant1	5785	-1.00	1.21	PASS
11N20MIMO	Ant2	5785	-1.29	0.93	PASS
11N20MIMO	Ant 1+2	5785	1.87	1.87	PASS
11N20MIMO	Ant1	5825	-0.84	1.38	PASS
11N20MIMO	Ant2	5825	-0.68	1.54	PASS
11N20MIMO	Ant 1+2	5825	2.25	2.25	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N40MIMO	Ant1	5190	2.76	2.76	PASS
11N40MIMO	Ant2	5190	3.30	3.30	PASS
11N40MIMO	Ant 1+2	5190	6.04	6.04	PASS
11N40MIMO	Ant1	5230	1.52	1.52	PASS
11N40MIMO	Ant2	5230	1.18	1.18	PASS
11N40MIMO	Ant 1+2	5230	4.36	4.36	PASS

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N40MIMO	Ant1	5755	-4.70	-2.48	PASS
11N40MIMO	Ant2	5755	-5.01	-2.80	PASS
11N40MIMO	Ant 1+2	5755	-1.84	-1.84	PASS
11N40MIMO	Ant1	5795	-4.92	-2.70	PASS
11N40MIMO	Ant2	5795	-4.25	-2.03	PASS
11N40MIMO	Ant 1+2	5795	-1.55	-1.55	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC20MIMO	Ant1	5180	4.92	4.92	PASS
11AC20MIMO	Ant2	5180	4.01	4.01	PASS
11AC20MIMO	Ant 1+2	5180	7.49	7.49	PASS
11AC20MIMO	Ant1	5200	4.01	4.01	PASS
11AC20MIMO	Ant2	5200	2.51	2.51	PASS
11AC20MIMO	Ant 1+2	5200	6.33	6.33	PASS
11AC20MIMO	Ant1	5240	4.00	4.00	PASS
11AC20MIMO	Ant2	5240	3.32	3.32	PASS
11AC20MIMO	Ant 1+2	5240	6.68	6.68	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC20MIMO	Ant1	5745	-1.76	0.46	PASS
11AC20MIMO	Ant2	5745	-1.41	0.80	PASS
11AC20MIMO	Ant 1+2	5745	1.42	1.42	PASS
11AC20MIMO	Ant1	5785	-2.64	-0.42	PASS
11AC20MIMO	Ant2	5785	-1.30	0.92	PASS
11AC20MIMO	Ant 1+2	5785	1.09	1.09	PASS
11AC20MIMO	Ant1	5825	-1.96	0.25	PASS
11AC20MIMO	Ant2	5825	-1.93	0.29	PASS
11AC20MIMO	Ant 1+2	5825	1.06	1.06	PASS

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC40MIMO	Ant1	5190	1.66	1.66	PASS
11AC40MIMO	Ant2	5190	0.33	0.33	PASS
11AC40MIMO	Ant 1+2	5190	4.05	4.05	PASS
11AC40MIMO	Ant1	5230	0.89	0.89	PASS
11AC40MIMO	Ant2	5230	0.71	0.71	PASS
11AC40MIMO	Ant 1+2	5230	3.80	3.80	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC40MIMO	Ant1	5755	-5.04	-2.82	PASS
11AC40MIMO	Ant2	5755	-4.42	-2.20	PASS
11AC40MIMO	Ant 1+2	5755	-1.70	-1.70	PASS
11AC40MIMO	Ant1	5795	-5.06	-2.85	PASS
11AC40MIMO	Ant2	5795	-6.20	-3.98	PASS
11AC40MIMO	Ant 1+2	5795	-2.58	-2.58	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC80MIMO	Ant1	5210	3.24	3.24	PASS
11AC80MIMO	Ant2	5210	3.94	3.94	PASS
11AC80MIMO	Ant 1+2	5210	6.06	6.06	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC80MIMO	Ant1	5775	-2.19	0.03	PASS
11AC80MIMO	Ant2	5775	-1.23	0.98	PASS
11AC80MIMO	Ant 1+2	5775	1.32	1.32	PASS

Test Graph



