



**CFR 47 FCC PART 15 SUBPART E
ISED RSS-247 ISSUE 2**

CERTIFICATION TEST REPORT

For

AXIS W110 BODY WORN CAMERA

FCC MODEL NUMBER: AXIS W110 BODY WORN CAMERA BLACK

**FCC ADDITIONAL MODEL NUMBER: AXIS W110 BODY WORN CAMERA GRAY,
AXIS W110 BODY WORN CAMERA, W110**

IC MODEL NUMBER: W110

PROJECT NUMBER: 4790752664

REPORT NUMBER: 4790752664-7

FCC ID: PNB-AXISW110

IC: 3919A-W110

HVIN: W110

ISSUE DATE: Jun. 06, 2023

Prepared for

AXIS COMMUNICATIONS AB

Prepared by

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	06/06/2023	Initial Issue	

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: AXIS COMMUNICATIONS AB
Address: GRANDEN 1 SE-223 69 LUND SWEDEN

Manufacturer Information

Company Name: AXIS COMMUNICATIONS AB
Address: GRANDEN 1 SE-223 69 LUND SWEDEN

Factory Information

Company Name: Jabil Poland Sp.z o.o
Address: Ul. Milosna 32 82-500 Kwidzyn Poland

EUT Description

Product Name: AXIS W110 BODY WORN CAMERA
FCC Model Name: AXIS W110 BODY WORN CAMERA BLACK
FCC Additional No.: AXIS W110 BODY WORN CAMERA GRAY,
W110, AXIS W110 BODY WORN CAMERA
IC Model Name: W110
FCC Model Difference: The four models are identical except for color of the appearance.
Sample Number: 5819987
Data of Receipt Sample: Feb. 23, 2023
Test Date: Feb. 23, 2023~ Jun. 02, 2023

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART E	PASS
ISED RSS-247 Issue 2	PASS
ISED RSS-GEN Issue 5	PASS

Summary of Test Results			
Clause	Test Items	FCC/IC Rules	Test Results
1	6dB/26dB Bandwidth	FCC 15.407 (a)&(e) RSS-247 Clause 6.2	PASS
2	99% Occupied Bandwidth	RSS-Gen Clause 6.6	PASS
3	Maximum Conducted Output Power	FCC 15.407 (a) RSS-247 Clause 6.2	PASS
4	Power Spectral Density	FCC 15.407 (a) RSS-247 Clause 6.2	PASS
5	Antenna Conducted Spurious Emission	FCC 15.407 (b) RSS-247 Clause 6.2	PASS
6	Radiated Bandedge and Spurious Emission	FCC 15.407 (a), FCC 15.209, FCC 15.205, RSS-247 Clause 6.2 RSS-GEN Clause 8.9	PASS
7	Conducted Emission Test for AC Power Port	FCC 15.207 RSS-GEN Clause 8.8	PASS
8	Frequency Stability	FCC 15.407 (g)	PASS
9	Dynamic Frequency Selection	FCC 15.407 (h) RSS-247 Clause 6.3	N/A (See Note 2)
10	Antenna Requirement	FCC 15.203 RSS-GEN Clause 6.8	PASS
Note: 1. The measurement result for the sample received is <Pass> according to <ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15E and ISSED RSS-247 ISSUE 2> when <Accuracy Method>. 2. This device does not support U-NII-2A and U-NII-2C band.			

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, CFR 47 FCC Part 2, CFR 47 FCC Part 15, KDB 789033 D02 v02r01, RSS-GEN Issue 5, RSS-247 Issue 2, KDB414788 D01 Radiated Test Site v01r01, KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 and 905462 C Client Without DFS New Rules v01r02.

3. FACILITIES AND ACCREDITATIO

Accreditation Certificate	A2LA (Certificate No.: 4829.01) UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1247) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 25056; CAB No.: CN0073) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.
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Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, China

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS.

Note 3: The test anechoic chamber in UL-CCIC COMPANY LIMITED had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.1dB
Maximum Conduct Output Power	$\pm 1.3\text{dB}$
DTS Bandwidth	$\pm 1.9\%$
Maximum Conducted Output Power	$\pm 0.69\text{dB}$
Maximum Power Spectral Density Level	$\pm 1.5\text{ dB}$
Band-edge Compliance	$\pm 1.9\%$
Unwanted Emissions in Non-restricted Freq Bands	9kHz-30MHz: $\pm 0.90\text{dB}$ 30MHz-1GHz: $\pm 1.5\text{ dB}$ 1GHz-12.75GHz: $\pm 1.9\text{dB}$ 12.75GHz-26.5GHz: $\pm 2.1\text{dB}$
Radiation Emission test (include Fundamental emission) (9kHz-30MHz)	3.4dB
Radiation Emission test (include Fundamental emission) (30MHz-1GHz)	3.4dB
Radiation Emission test (1GHz to 26GHz) (include Fundamental emission)	3.5dB (1GHz-18GHz)
	3.9dB (18GHz-26.5GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

Product Name:	AXIS W110 BODY WORN CAMERA	
FCC Model Name:	AXIS W110 BODY WORN CAMERA BLACK	
FCC Additional No.:	AXIS W110 BODY WORN CAMERA GRAY	
IC Model Name:	W110	
Operating Frequency:	IEEE 802.11a/n/ac 20MHz: 5180MHz to 5240MHz, 5745MHz to 5825MHz IEEE 802.11n/ac 40MHz: 5190MHz to 5230MHz, 5755MHz-5795MHz IEEE 802.11ac 80MHz: 5210MHz, 5775MHz	
Type of Modulation:	IEEE for 802.11a/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE for 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)	
Channels Step:	Channels with 5MHz step	
Test software of EUT:	Prodstub (manufacturer declare)	
Antenna Type:	FPC Antenna	
Antenna Gain:	UNII-1 Band	0 dBi
	UNII-3 Band	-0.1 dBi
	Remark: This data is provided by customer and our lab isn't responsible for this data	

5.2. MAXIMUM OUTPUT POWER

UNII-1 BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)	Max Average EIRP (dBm)
a	5150 ~ 5250	12.21	12.21
ac VHT20		12.22	12.22
ac VHT40		10.34	10.34
ac VHT80		10.82	10.82

Note: The UNII-1 band is disabled for ISED

UNII-3 BAND

IEEE Std. 802.11	Frequency (MHz)	Max Power (dBm)
a	5725 ~ 5850	12.46
ac VHT20		11.63
ac VHT40		10.75
ac VHT80		11.09

5.3. CHANNEL LIST

UNII-1 (For Bandwidth = 20 MHz)		UNII-1 (For Bandwidth = 40 MHz)		UNII-1 (For Bandwidth = 80 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

Note: The UNII-1 band is disabled for ISED

UNII-3 (For Bandwidth = 20 MHz)		UNII-3 (For Bandwidth = 40 MHz)		UNII-3 (For Bandwidth = 80 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

5.4. TEST CHANNEL CONFIGURATION

UNII-1 Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11n HT20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11n HT40	CH 38(Low Channel), CH 46(High Channel)	5190 MHz, 5230 MHz
802.11ac VHT20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11ac VHT40	CH 38(Low Channel), CH 46(High Channel)	5190 MHz, 5230 MHz
802.11ac VHT80	CH 42(Low Channel)	5210 MHz

UNII-3 Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz
802.11n HT20	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz
802.11n HT40	CH 151(Low Channel), CH 159(High Channel)	5755MHz, 5795MHz
802.11ac VHT20	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz
802.11ac VHT40	CH 151(Low Channel), CH 159(High Channel)	5755 MHz, 5795 MHz
802.11ac VHT80	CH 155(Low Channel)	5775 MHz

5.5. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency Band	Antenna Type	Maximum Antenna Gain
			(dBi)
1	UNII-1	FPC Antenna	0
1	UNII-3	FPC Antenna	-0.1

IEEE Std. 802.11	Transmit and Receive Mode	Description
a	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
n HT20	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
n HT40	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
ac VHT20	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
ac VHT40	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
ac VHT80	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.

Note:
2.4 GHz WLAN & 5 GHz WLAN can't transmit simultaneously (Declared by customer).

5.6. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter	
Test Software	Prodstub

UNII-1

IEEE Std. 802.11	Rate	Channel	Test Software Setting Value
a	6M	36	15
		40	15
		48	15
ac VHT20	MCS0	36	14
		40	14
		48	14
ac VHT40	MCS0	38	13
		46	13
ac VHT80	MCS0	42	13

UNII-3

IEEE Std. 802.11	Rate	Channel	Test Software Setting Value
a	6M	149	15
		157	15
		165	15
ac VHT20	MCS0	149	14
		157	14
		165	14
ac VHT40	MCS0	151	13
		159	13
ac VHT80	MCS0	155	13

Note: Since 802.11ac VHT20/VHT40 modes are different from 802.11n HT20/HT40 only in control messages, so all the tests are performed on the worst case (802.11ac VHT20/802.11ac VHT40) mode between these 4 modes and only the worst data was recorded in this report.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Description
1	Laptop	ThinkPad	E590	Supplied by UL Lab

I/O PORT

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	LAN	LAN	LAN	100cm Length	/

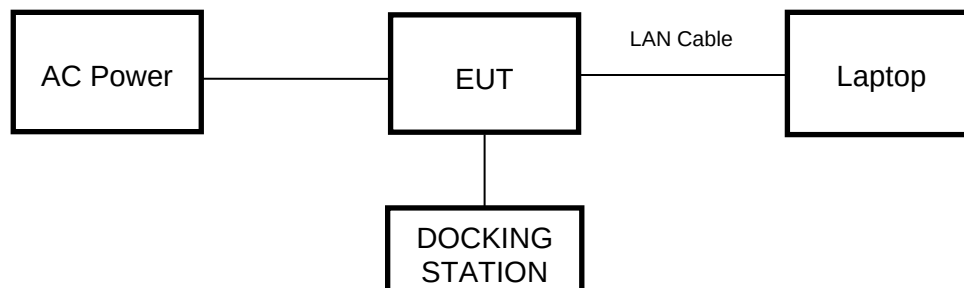
ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	DOCKING STATION	AXIS	W702	Supplied by UL Customer
2	Switching Power Adapter	AXIS	FSP015-DPAN3	INPUT: 100-240~, 0.5A, 50-60Hz OUTPUT: 5.0V=3.0A 15.0W

TEST SETUP

The EUT can work in an engineer mode with a software through a table PC.

SETUP DIAGRAM FOR TESTS



5.8. MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions (Instrument)							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
☒	EMI Test Receiver	R&S	ESR3	126700	2021-12-20	2022-12-19	2023-12-18
☒	Two-Line V-Network	R&S	ENV216	126701	2021-12-04	2022-12-03	2023-12-02
☒	Artificial Mains Networks	R&S	ENY81	126712	2021-10-12	2022-10-09	2023-10-08
Software							
Used	Description		Manufacturer	Name	Version		
☒	Test Software for Conducted disturbance		R&S	EMC32	Ver. 9.25		
Radiated Emissions (Instrument)							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
☒	EMI test receiver	R&S	ESR7	222993	2022-04-09	2023-04-08	2024-04-07
☒	EMI test receiver	R&S	ESR26	126703	2021-12-04	2022-12-03	2023-12-02
☒	Spectrum Analyzer	R&S	FSV3044	222992	2022-04-09	2023-04-08	2024-04-07
☒	Receiver Antenna (9kHz-30MHz)	Schwarzbeck	FMZB 1513	155456	2018-06-15	2021-06-03	2024-06-02
☒	Receiver Antenna (30MHz-1GHz)	Schwarzbeck	VULB 9163	126704	2019-01-19	2022-01-18	2025-01-17
☒	Receiver Antenna (1GHz-18GHz)	R&S	HF907	126705	2019-02-29	2022-02-28	2025-02-27
☒	Receiver Antenna (18GHz-26.5GHz)	Schwarzbeck	BBHA9170	126706	2019-02-29	2022-02-28	2025-02-27
☒	Pre-amplification (To 18GHz)	Tonscned	TAP01018050	224539	/	2022-10-20	2023-10-19
☒	Pre-amplification (To 18GHz)	R&S	SCU-18D	134667	2021-12-04	2022-12-03	2023-12-02
☒	Pre-amplification (To 26.5GHz)	R&S	SCU-26D	135391	2021-12-04	2022-12-03	2023-12-02
☒	Band Reject Filter	Wainwright	WRCGV12-2375-2400-2485-2510-40SS	1	2022-05-08	2023-05-07	2024-05-06
☒	High Pass Filter	COM-MW	ZBF13-3-18G-01	2	2022-05-08	2023-05-07	2024-05-06
Software							
Used	Description		Manufacturer	Name	Version		
☒	Test Software for Radiated disturbance		Tonscend	TS+	Ver. 2.5		
☒	Test Software for Radiated disturbance		Chinese-EMC	RE_RSE	Ver. 3.03		
Other instruments							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
☒	Spectrum Analyzer	Keysight	N9010B	155368	2022-04-09	2023-04-08	2024-04-07
☒	Power Meter	MWT	MW100-RFCB	221694	2022-05-23	2023-04-08	2024-04-07
☒	Attenuator	PASTERNACK	PE7087-6	1624	2022-05-23	2023-05-22	2024-05-21

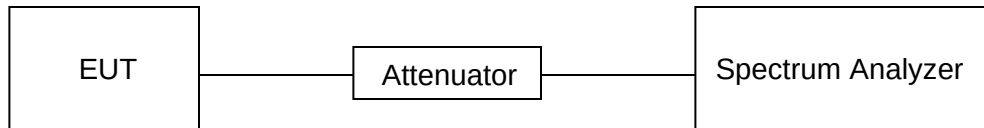
6. ANTENNA PORT TEST RESULTS

6.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

TEST SETUP



TEST ENVIRONMENT

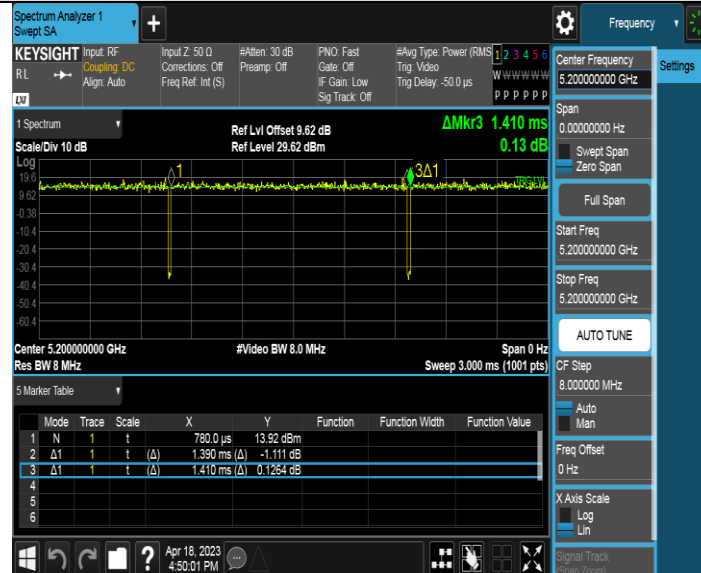
Environment Parameter	Selected Values During Tests
Relative Humidity	56%
Atmospheric Pressure:	101kPa
Temperature	22°C

RESULTS

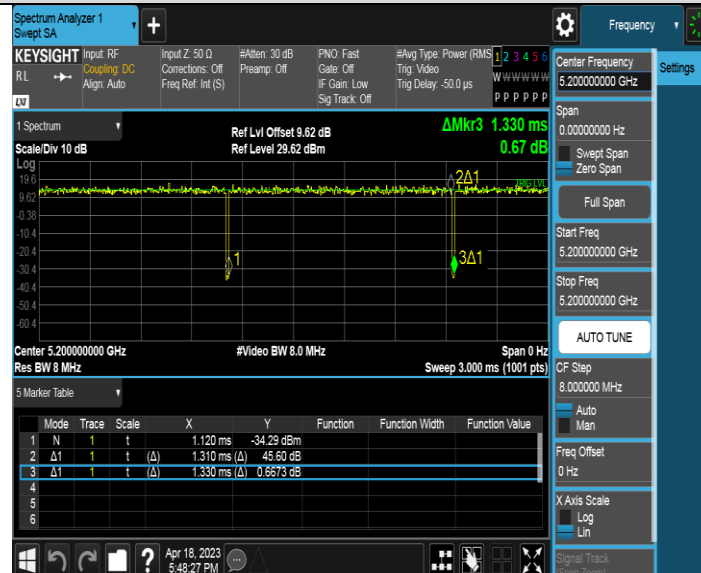
Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A	1.39	1.41	0.9858	98.58%	0.06	0.72	0.01
11AC20	1.31	1.33	0.9850	98.50%	0.07	0.76	0.01
11AC40	0.65	0.68	0.9559	95.59%	0.20	1.54	2
11AC80	0.33	0.35	0.9429	94.29%	0.26	3.03	4

Note: 1) Duty Cycle Correction Factor=10log(1/x).
 2) Where: x is Duty Cycle (Linear)
 3) Where: T is On Time (transmit duration)
 4) If the duty cycle is above 98%, the Final VBW is 10Hz.

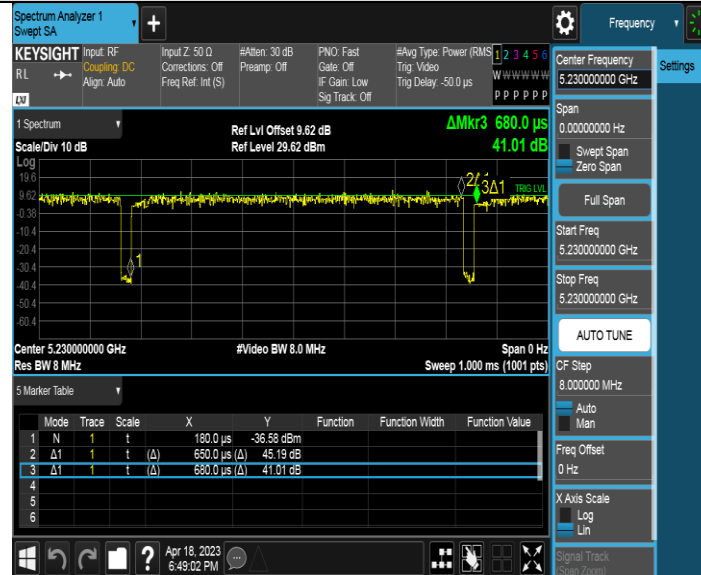
11A ON TIME AND DUTY CYCLE MID CH (WORSE CASE)



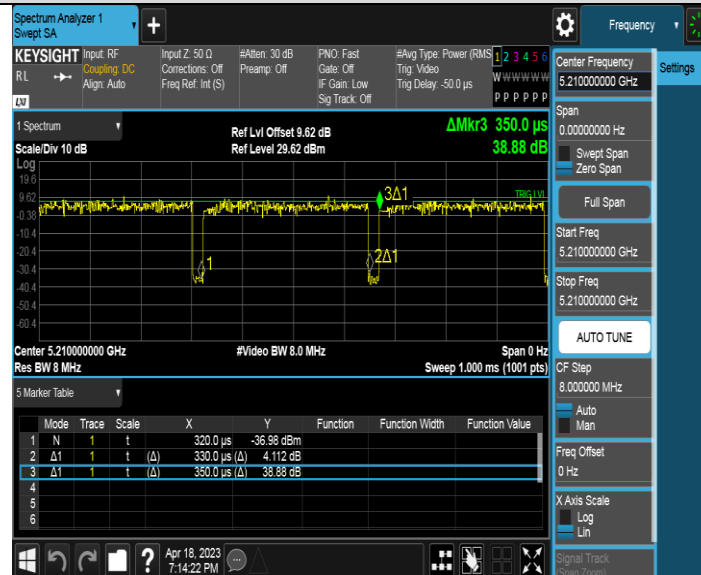
11AC20 ON TIME AND DUTY CYCLE MID CH (WORSE CASE)



11AC40 ON TIME AND DUTY CYCLE MID CH (WORSE CASE)



11AC80 ON TIME AND DUTY CYCLE MID CH (WORSE CASE)



6.2. 6dB/26dB/99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15, Subpart E ISED RSS-247 ISSUE 2		
Test Item	Limit	Frequency Range (MHz)
26 dB Emission Bandwidth	For reporting purposes only.	5150 ~ 5250
26 dB Emission Bandwidth	For reporting purposes only.	5250 ~ 5350
26 dB Emission Bandwidth	For reporting purposes only.	5470 ~ 5725 (For FCC) 5470 ~ 5600 (For ISED) 5650 ~ 5725 (For ISED)
6 dB Emission Bandwidth	The minimum 6 dB emission bandwidth shall be 500 kHz.	5725 ~ 5850
99 % Occupied Bandwidth	For reporting purposes only.	5150 ~ 5825 (For ISED)

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.C1. for 26 dB Emission Bandwidth; section II.C2. for 6 dB Emission Bandwidth; section II.D. for 99 % Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

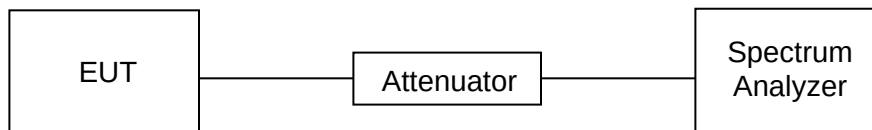
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Emission Bandwidth: RBW=100 kHz For 26 dB Emission bandwidth: approximately 1 % of the EBW. For 99 % Occupied Bandwidth: approximately 1 % ~ 5 % of the OBW.
VBW	For 6 dB Bandwidth: $\geq 3 \times \text{RBW}$ For 26 dB Bandwidth: $> \text{RBW}$ For 99 % Bandwidth: $> 3 \times \text{RBW}$
Trace	Max hold
Sweep	Auto couple

- Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6/26 dB relative to the maximum level measured in the fundamental emission.

TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests
Relative Humidity	56%
Atmospheric Pressure:	101kPa
Temperature	22°C

TEST SETUP



RESULTS TABLE

For 26 dB Emission Bandwidth:

Test Mode	Channel	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	5180	19.520	5170.297	5189.817	PASS
	5200	19.617	5190.244	5209.861	PASS
	5240	19.433	5230.256	5249.689	PASS
	5745	19.527	5735.245	5754.772	PASS
	5785	19.715	5775.165	5794.880	PASS
	5825	19.480	5815.304	5834.784	PASS
11AC20	5180	20.053	5169.925	5189.979	PASS
	5200	19.993	5190.040	5210.033	PASS
	5240	20.024	5229.981	5250.005	PASS
	5745	20.048	5735.033	5755.081	PASS
	5785	20.073	5775.051	5795.124	PASS
	5825	19.901	5815.097	5834.999	PASS
11AC40	5190	40.240	5169.755	5209.995	PASS
	5230	40.739	5209.413	5250.152	PASS
	5755	40.565	5734.637	5775.203	PASS
	5795	40.400	5774.565	5814.965	PASS
11AC80	5210	82.512	5168.165	5250.677	PASS
	5775	81.899	5733.869	5815.768	PASS

For Occupied channel bandwidth:

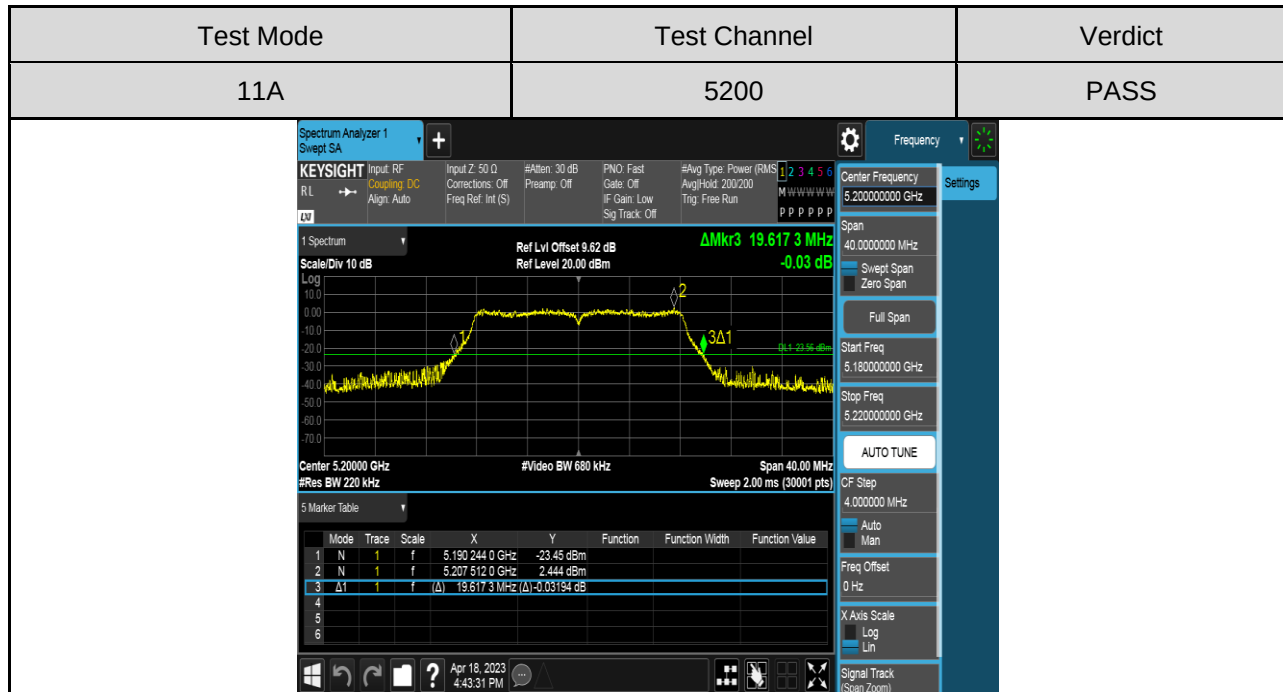
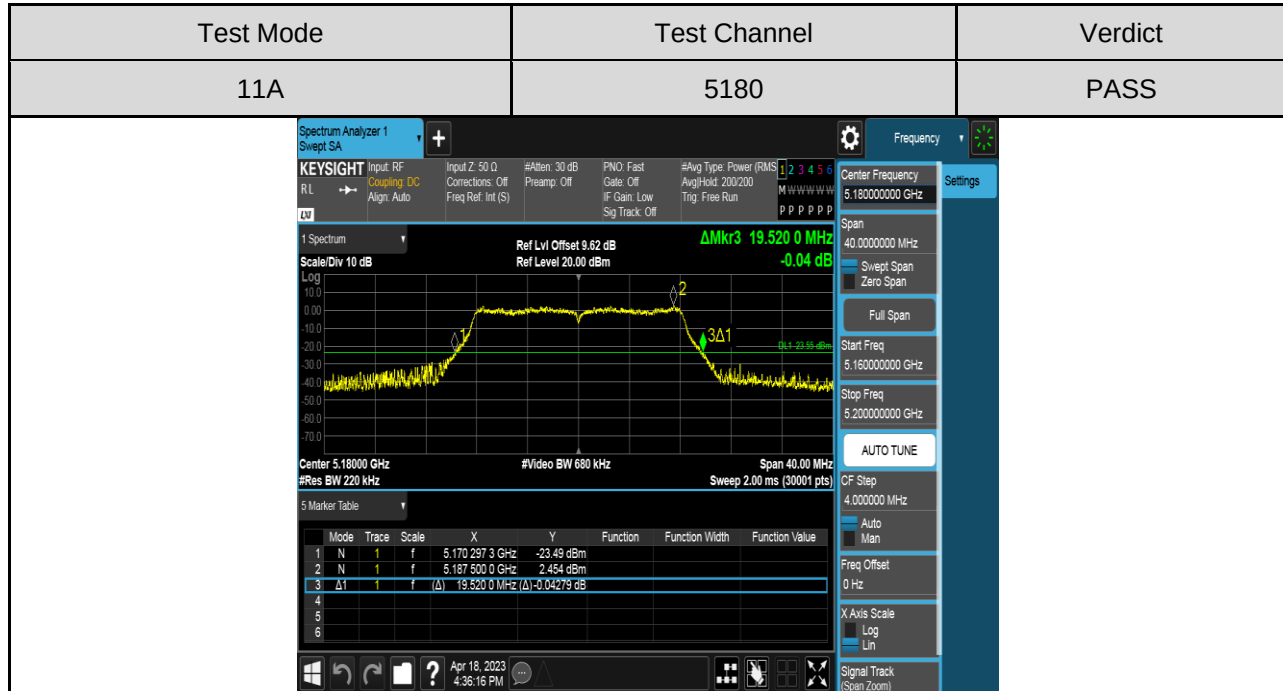
Test Mode	Channel	Occupied Bandwidth [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	5180	16.834	5171.5872	5188.4212	PASS
	5200	16.851	5191.5772	5208.4282	PASS
	5240	16.849	5231.5611	5248.4101	PASS
	5745	16.875	5736.5740	5753.4490	PASS
	5785	16.839	5776.6021	5793.4411	PASS
	5825	16.864	5816.5828	5833.4468	PASS
11AC20	5180	17.844	5171.1115	5188.9555	PASS
	5200	17.842	5191.1313	5208.9733	PASS
	5240	17.847	5231.0899	5248.9369	PASS
	5745	17.829	5736.1238	5753.9528	PASS
	5785	17.811	5776.1301	5793.9411	PASS
	5825	17.833	5816.1173	5833.9503	PASS
11AC40	5190	36.314	5171.8793	5208.1933	PASS
	5230	36.304	5211.8605	5248.1645	PASS
	5755	36.277	5736.8912	5773.1682	PASS
	5795	36.357	5776.8447	5813.2017	PASS
11AC80	5210	76.158	5171.9365	5248.0945	PASS
	5775	76.246	5736.8902	5813.1362	PASS

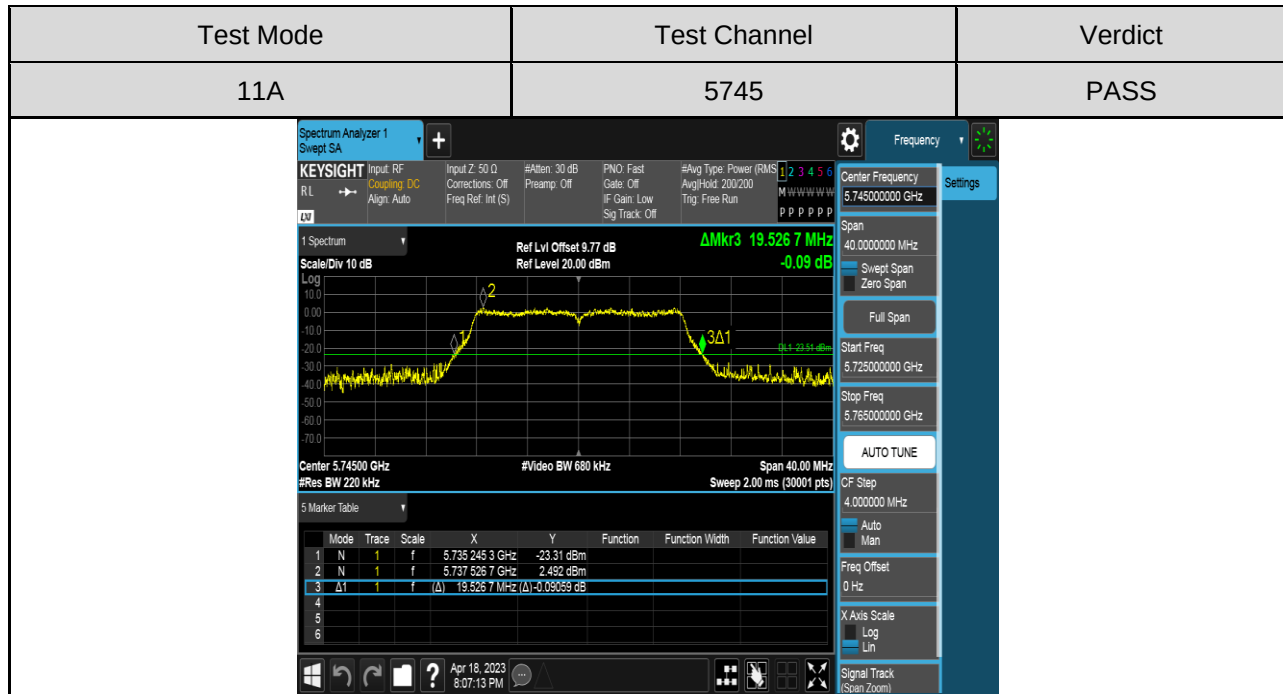
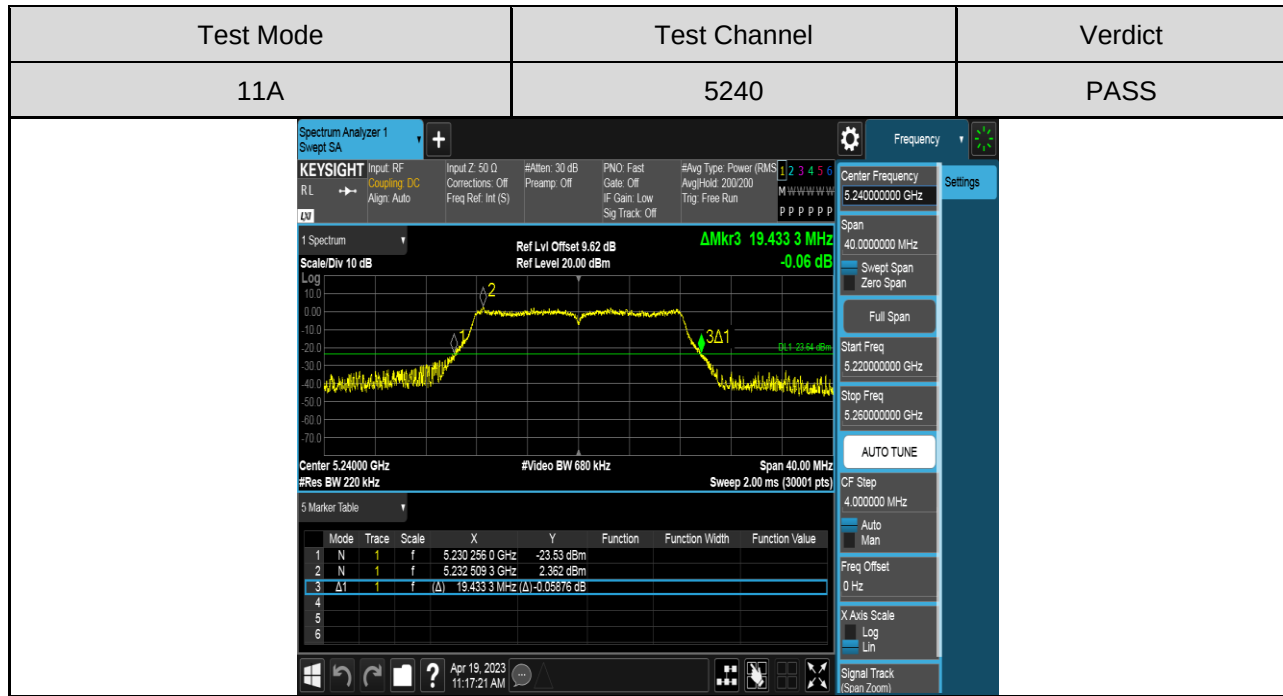
For 6dB Minimum Emission Bandwidth:

Test Mode	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	5745	16.333	5736.863	5753.196	≥ 0.5	PASS
	5785	16.440	5776.796	5793.236	≥ 0.5	PASS
	5825	16.340	5816.856	5833.196	≥ 0.5	PASS
11AC20	5745	17.552	5736.251	5753.803	≥ 0.5	PASS
	5785	17.551	5776.248	5793.799	≥ 0.5	PASS
	5825	17.548	5816.256	5833.804	≥ 0.5	PASS
11AC40	5755	35.699	5737.061	5772.760	≥ 0.5	PASS
	5795	35.789	5777.139	5812.928	≥ 0.5	PASS
11AC80	5775	75.563	5737.325	5812.888	≥ 0.5	PASS

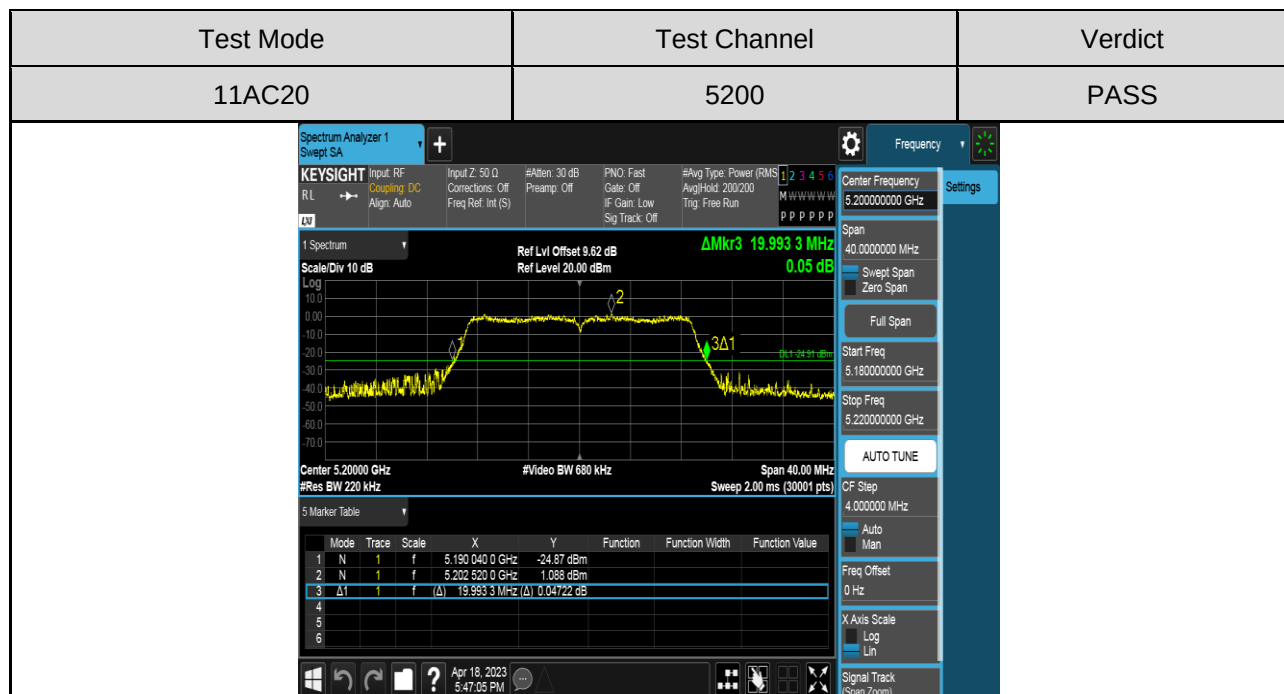
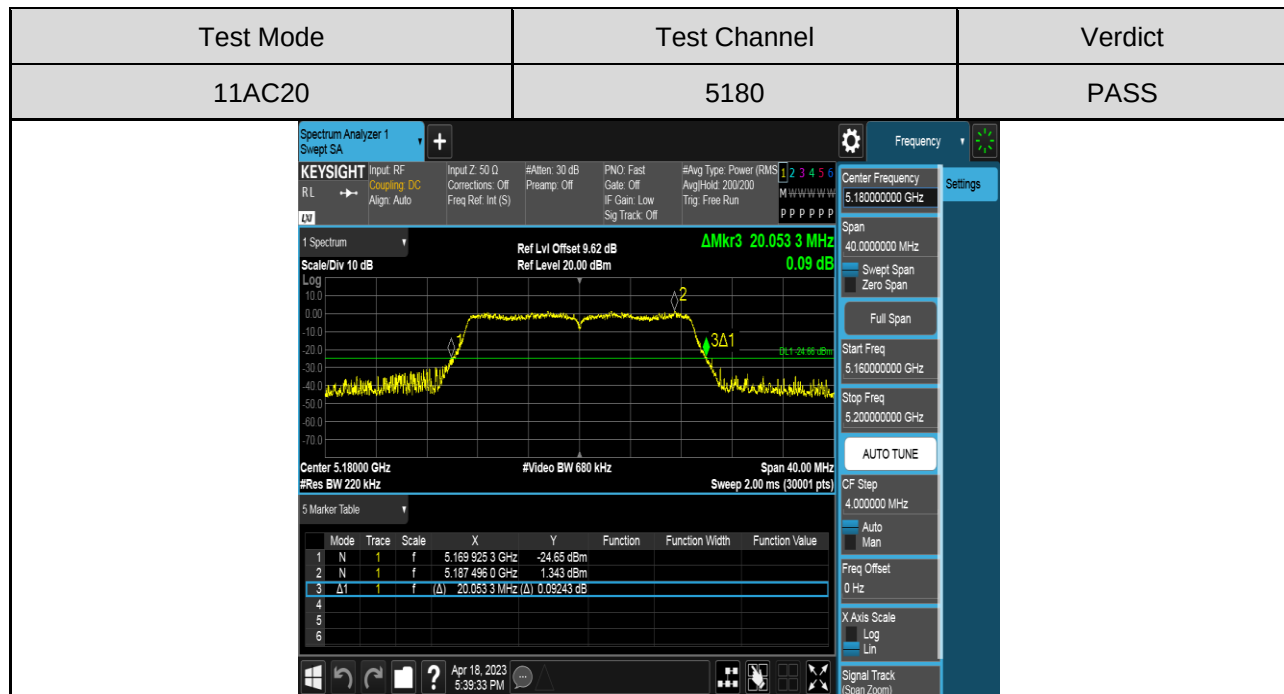
Test Graphs

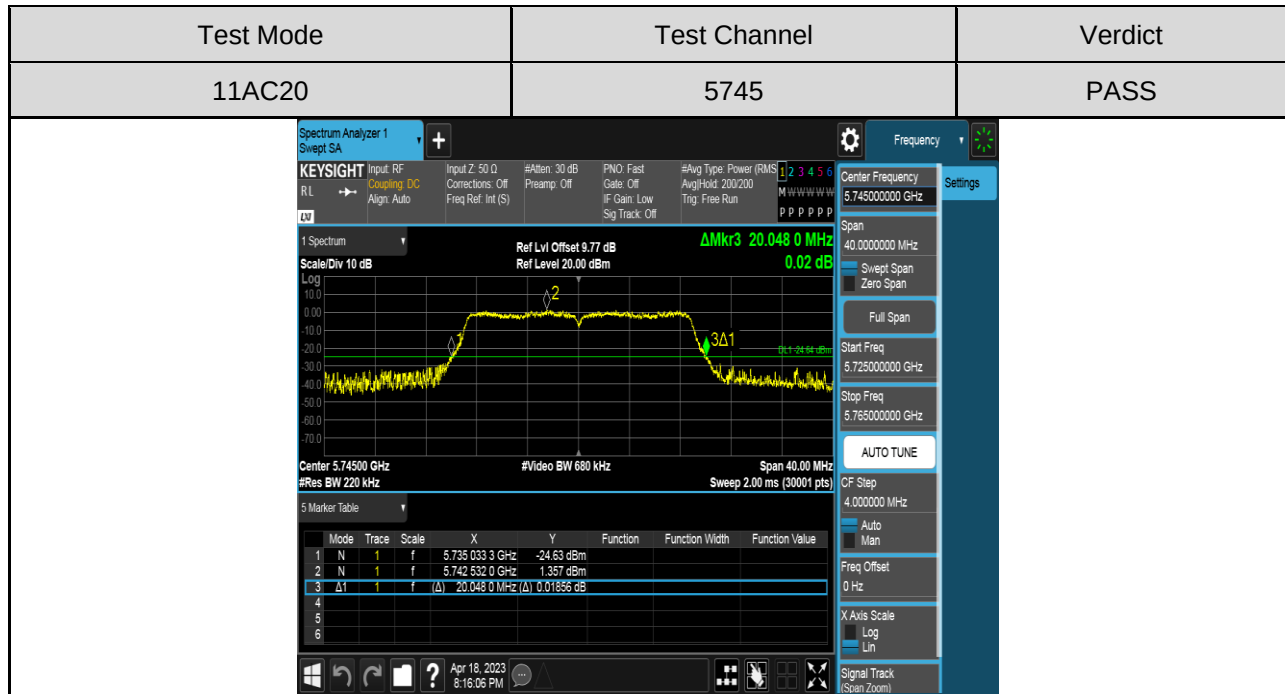
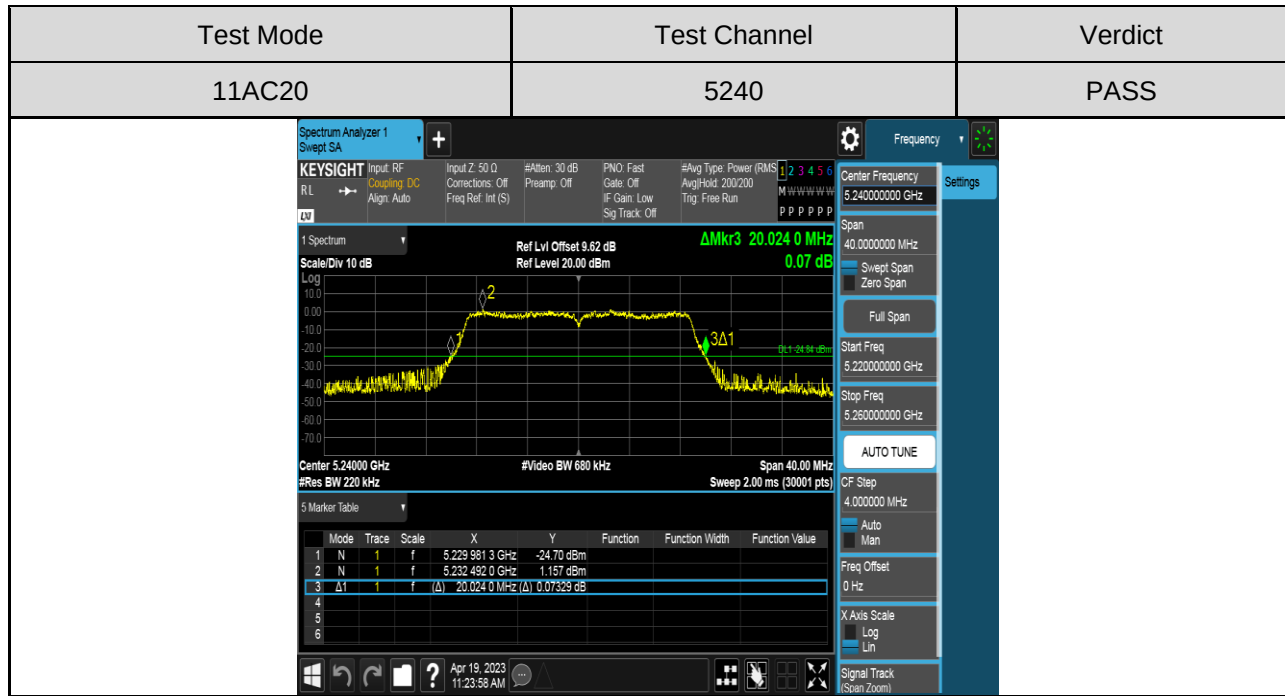
For 26 dB Emission Bandwidth:

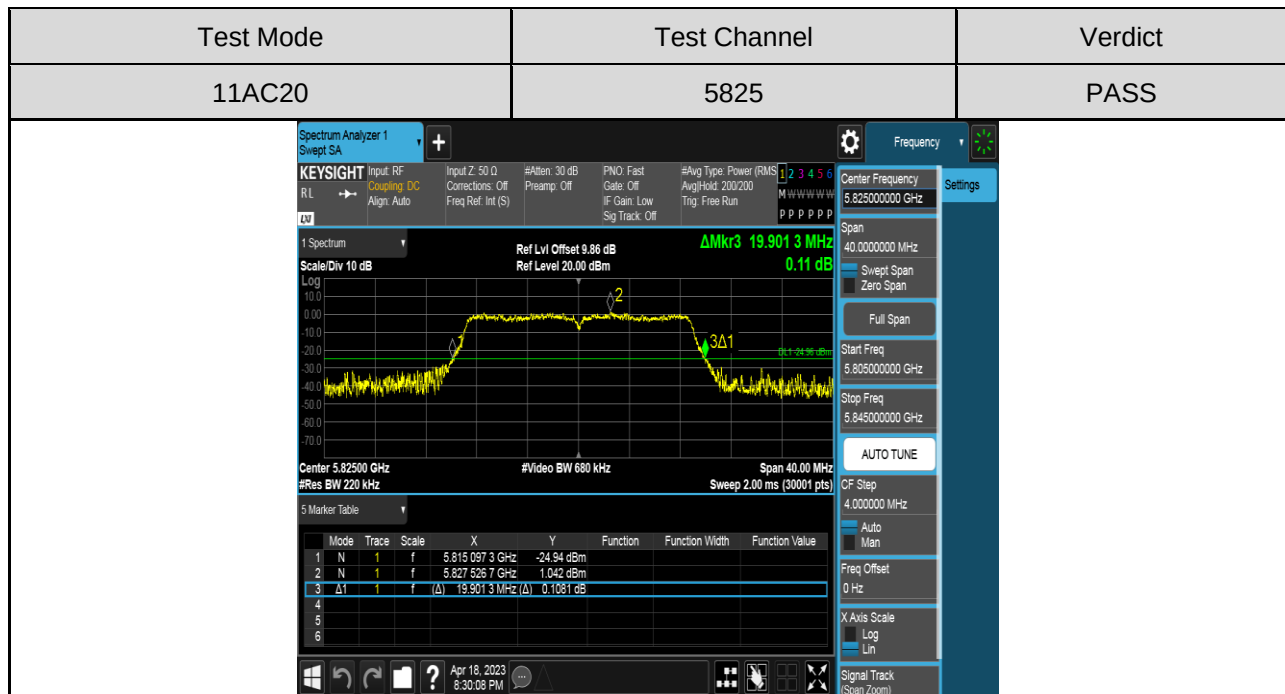
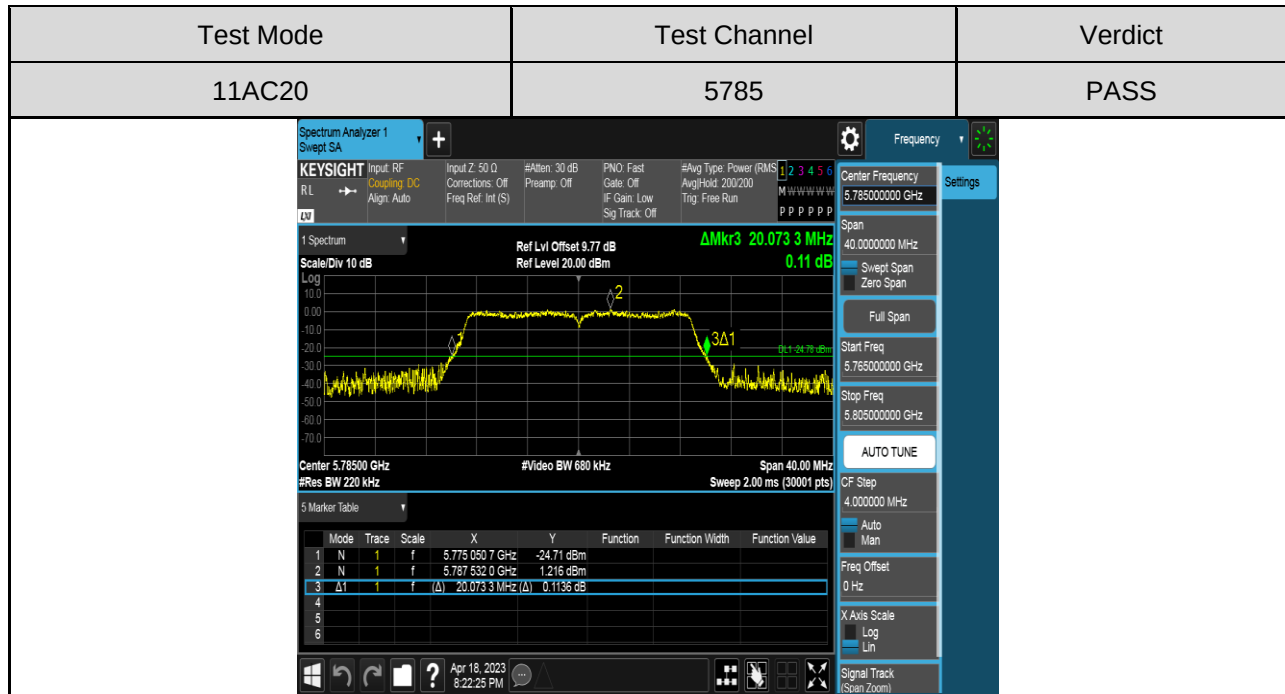


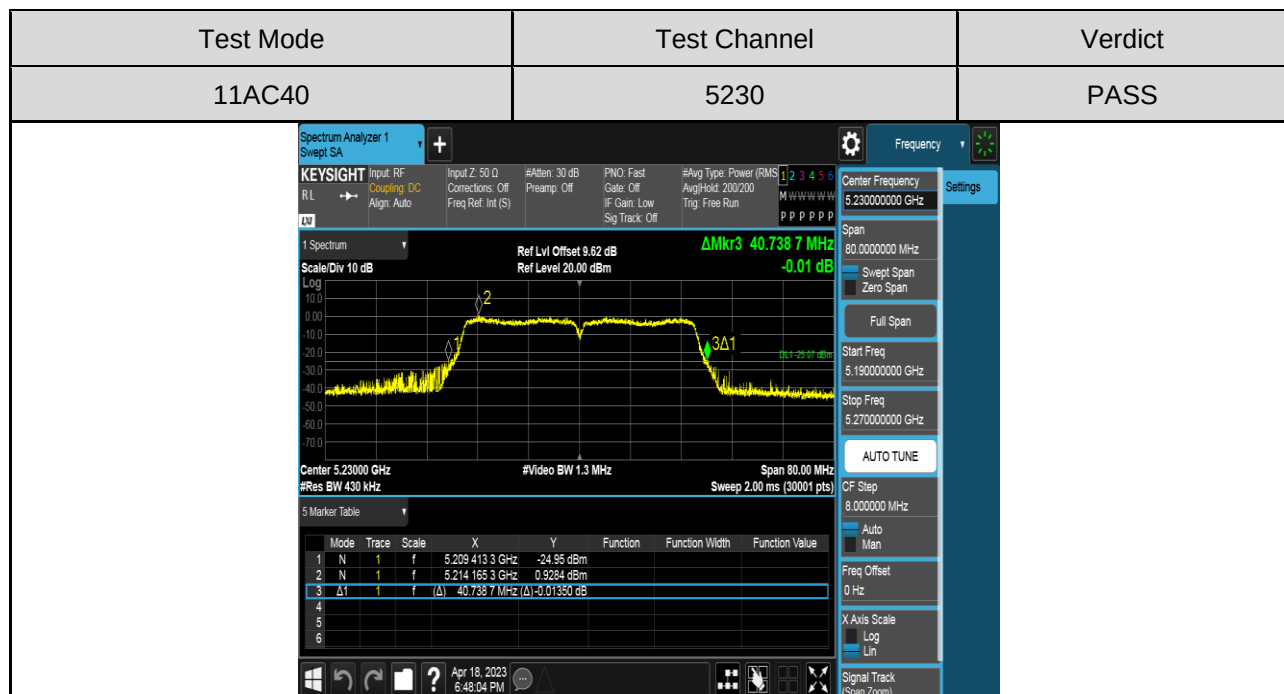
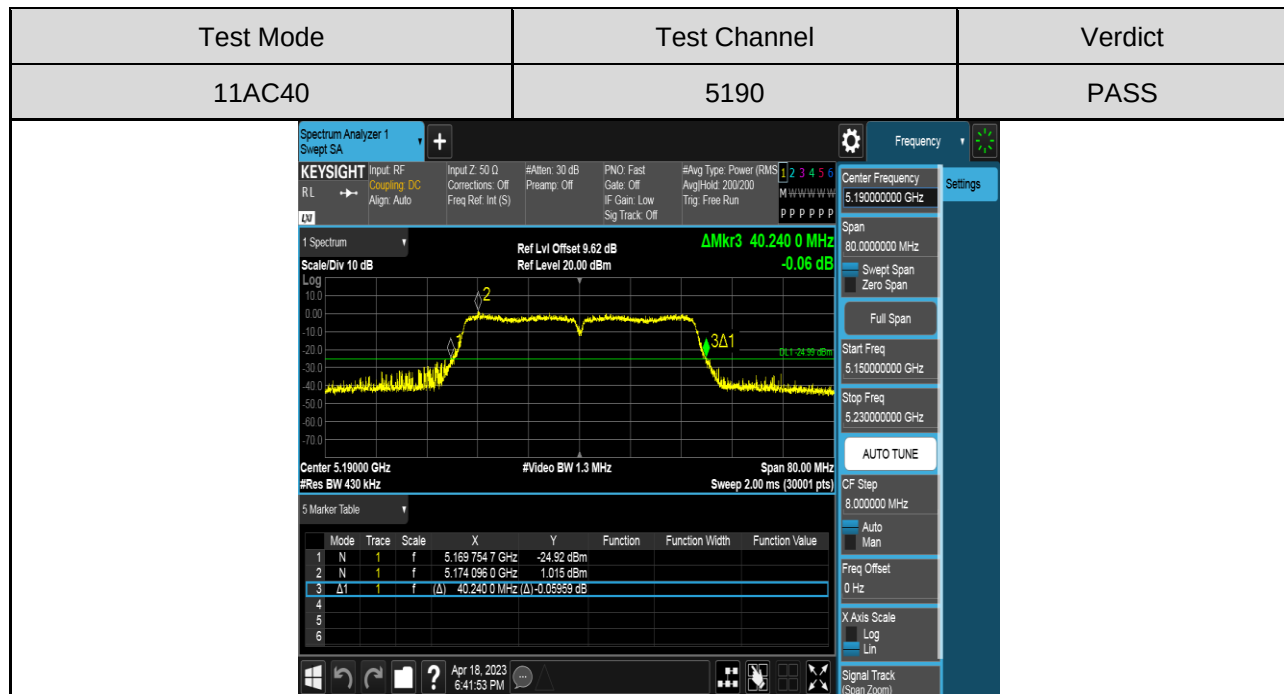


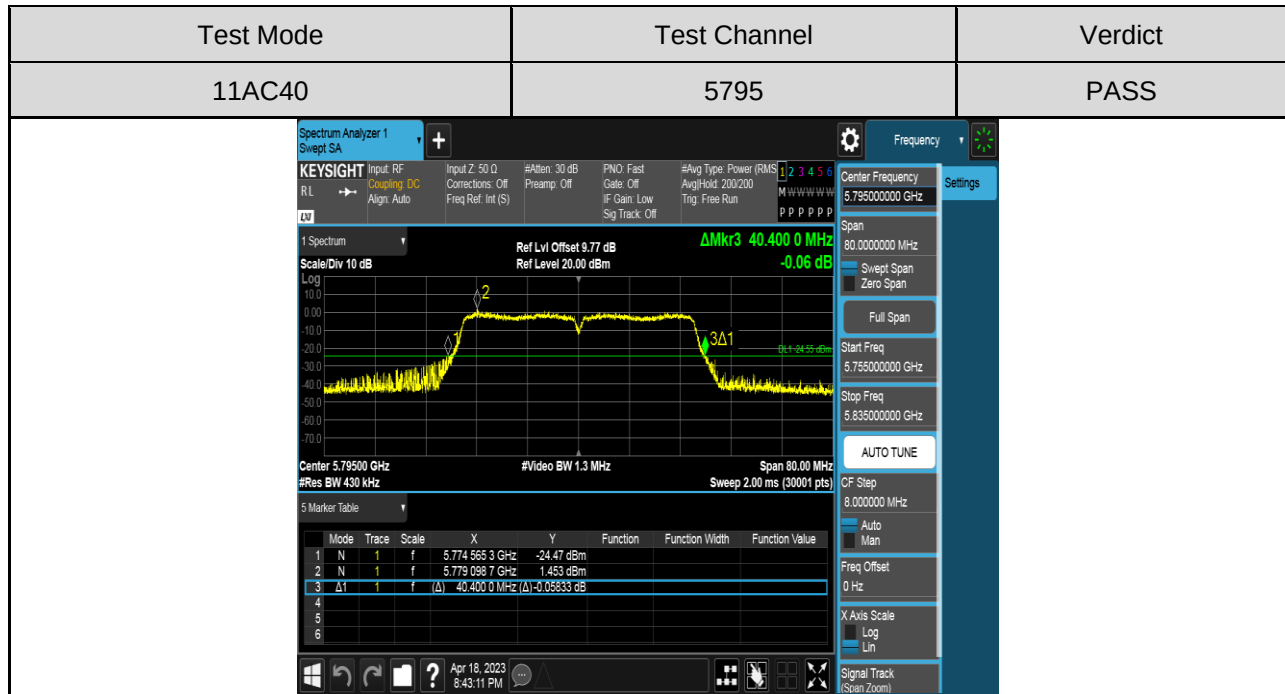
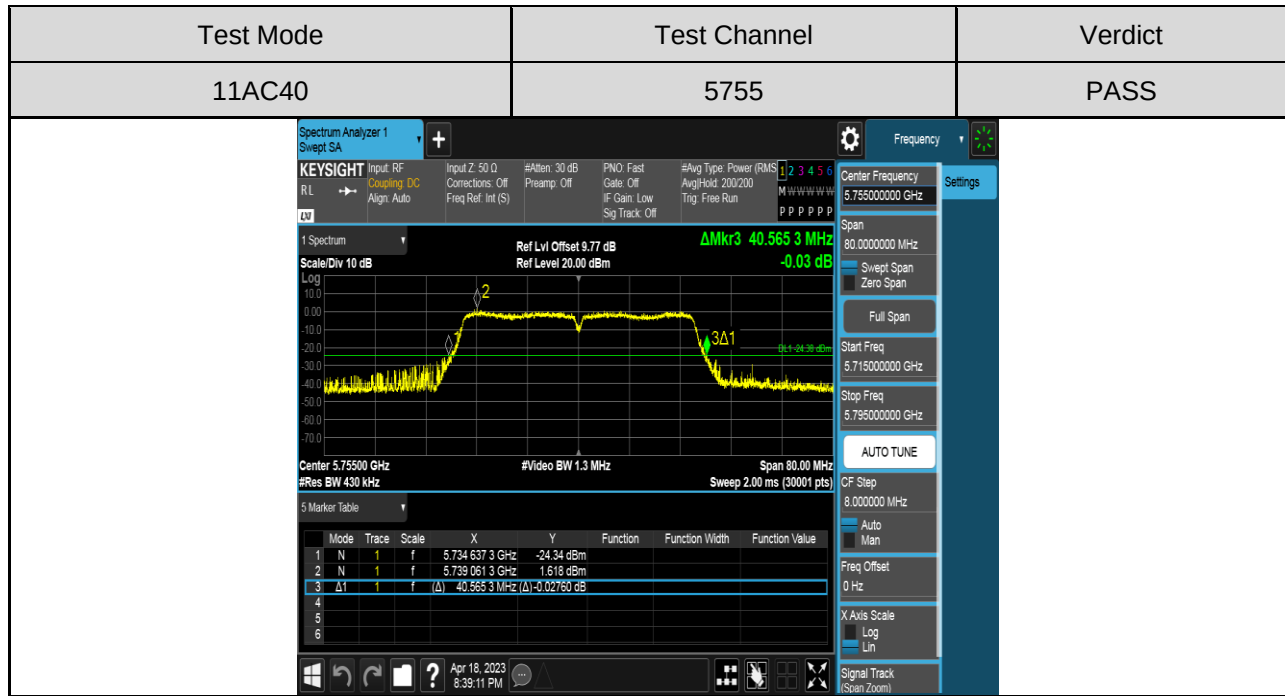
Test Mode	Test Channel	Verdict
11A	5825	PASS

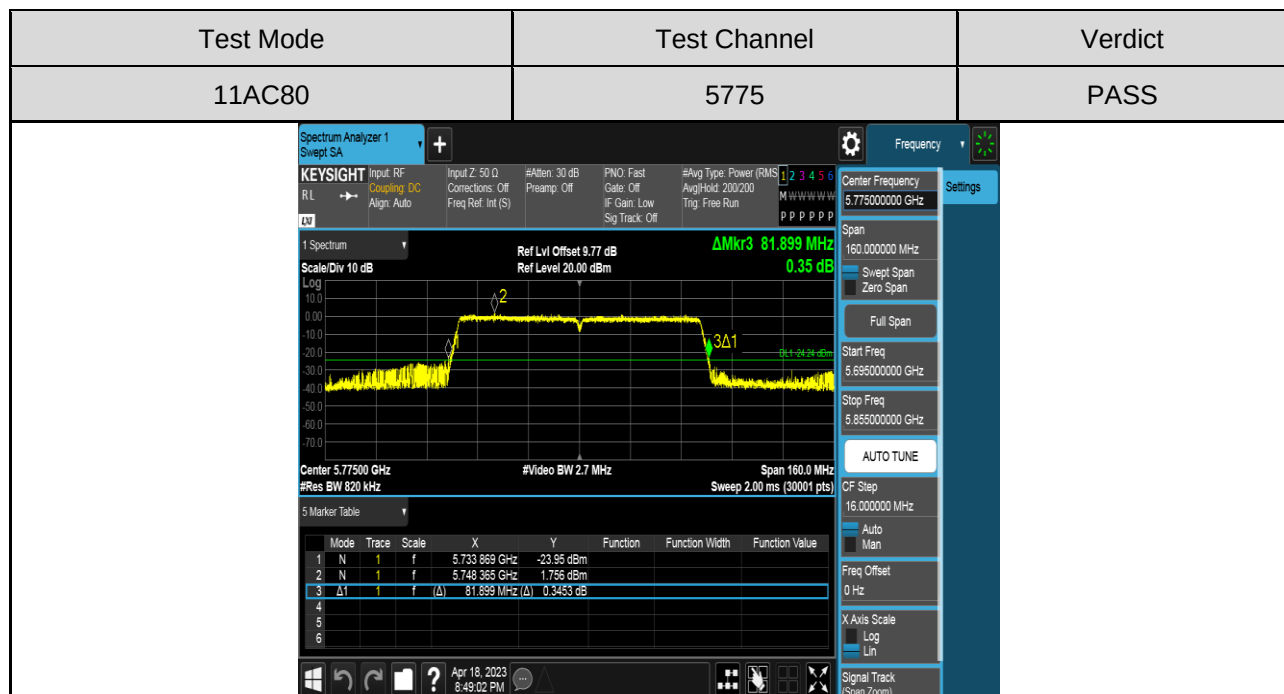
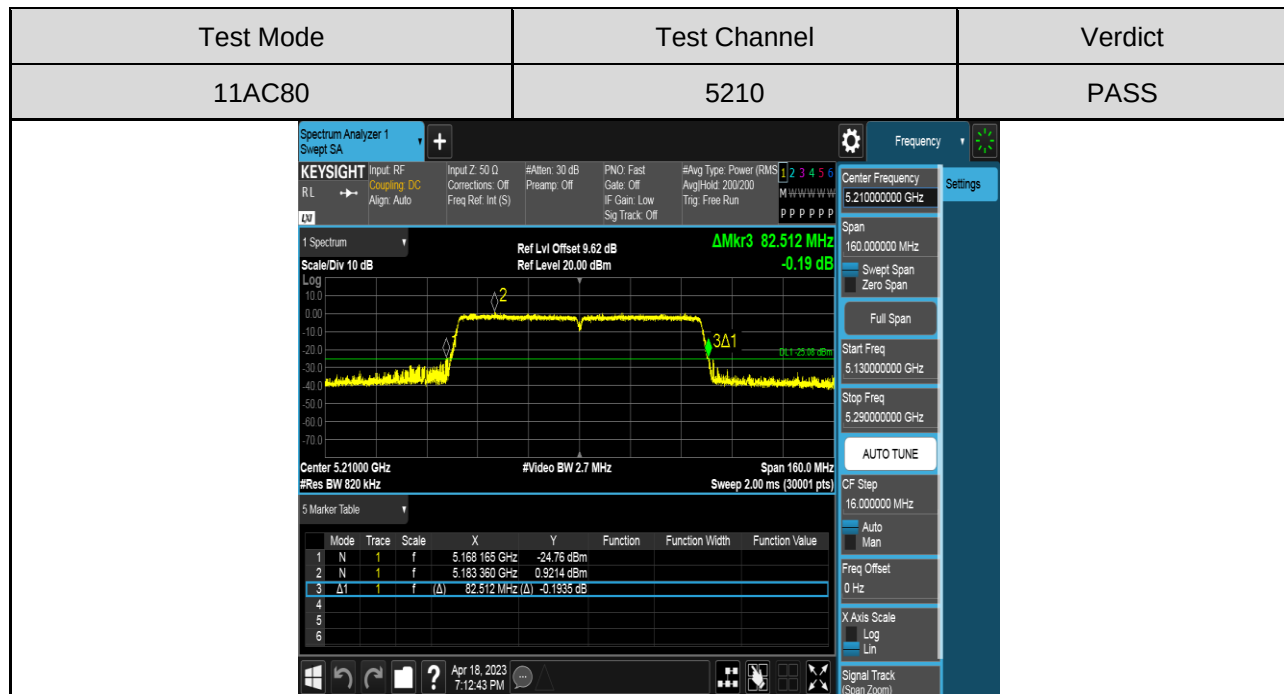






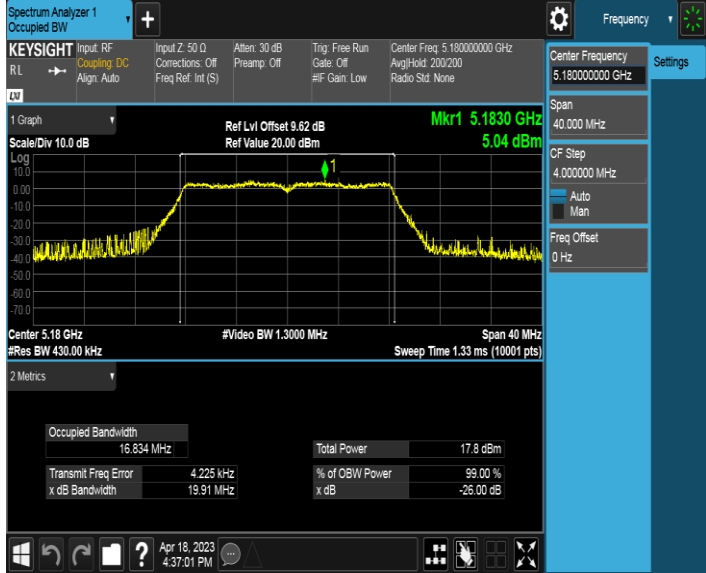






For Occupied Bandwidth:

Test Mode	Test Channel	Verdict
11A	5180	PASS



Keysight Spectrum Analyzer 1
Occupied BW

Input: RF
 Corrections: Off
 Presamp: Off
 Trg: Free Run
 Gate: Off
 #F Gain: Low
 Center Freq: 5.18000000 GHz
 Avg/Hold: 200/200
 Radio Std: None

Center Frequency: 5.18000000 GHz
 Span: 40.000 MHz
 CF Step: 4.000000 MHz
 Auto Man
 Freq Offset: 0 Hz

1 Graph
 Scale/Div 10.0 dB
 Log
 Ref Lvl Offset 9.62 dB
 Ref Value 20.00 dBm
 Mkr1 5.1830 GHz
 5.04 dBm

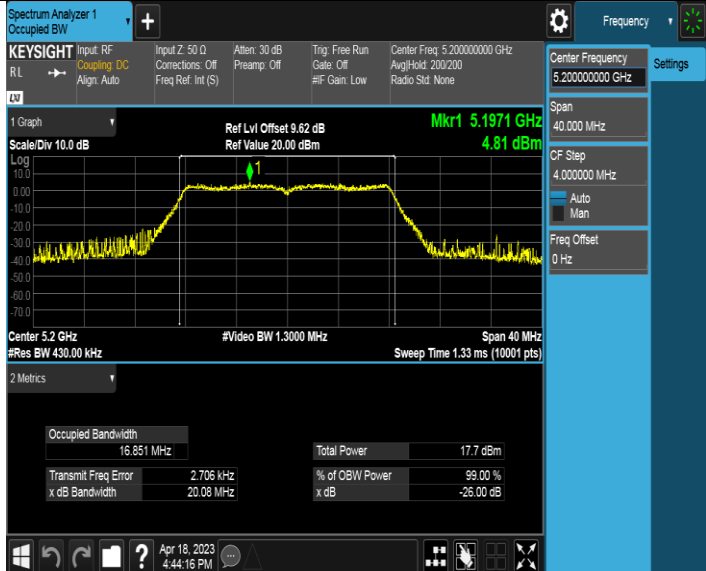
Center 5.18 GHz
 #Res BW 430.00 kHz
 #Video BW 1.3000 MHz
 Span 40 MHz
 Sweep Time 1.33 ms (10001 pts)

2 Metrics

Occupied Bandwidth	16.834 MHz	Total Power	17.8 dBm
Transmit Freq Error	4.225 kHz	% of OBW Power	99.00 %
x dB Bandwidth	19.91 MHz	x dB	-26.00 dB

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Test Mode	Test Channel	Verdict
11A	5200	PASS



Keysight Spectrum Analyzer 1
Occupied BW

Input: RF
 Corrections: Off
 Presamp: Off
 Trg: Free Run
 Gate: Off
 #F Gain: Low
 Center Freq: 5.20000000 GHz
 Avg/Hold: 200/200
 Radio Std: None

Center Frequency: 5.20000000 GHz
 Span: 40.000 MHz
 CF Step: 4.000000 MHz
 Auto Man
 Freq Offset: 0 Hz

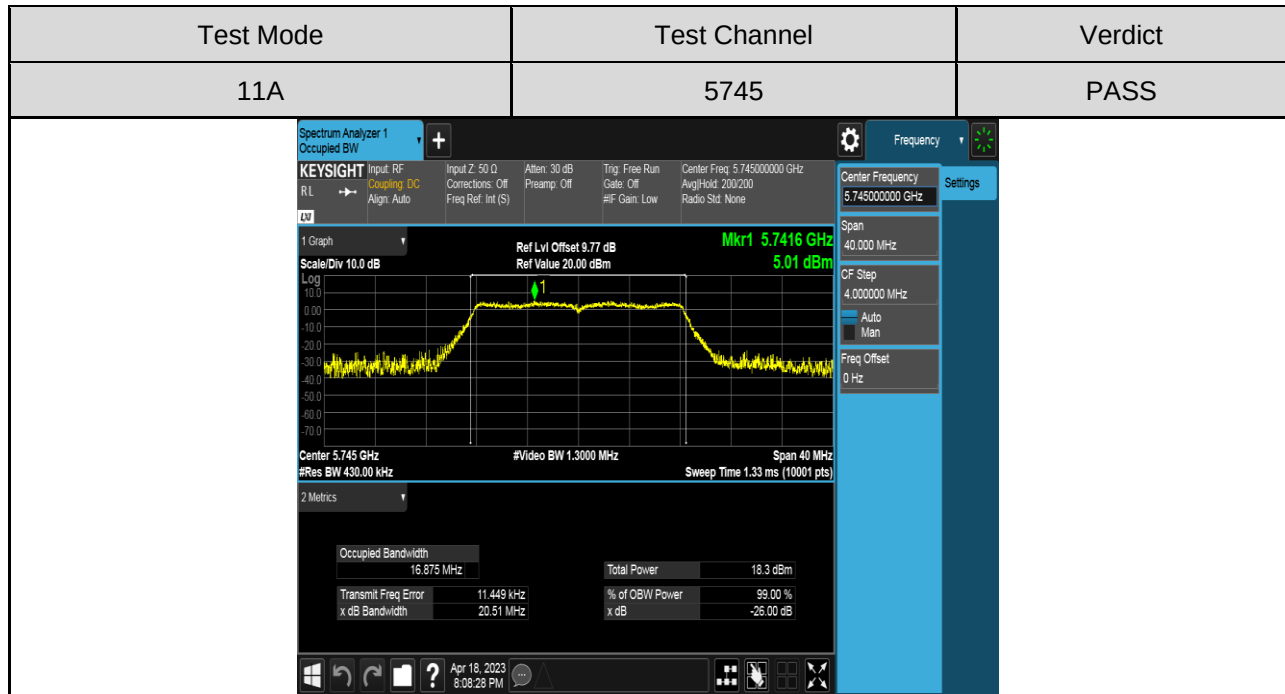
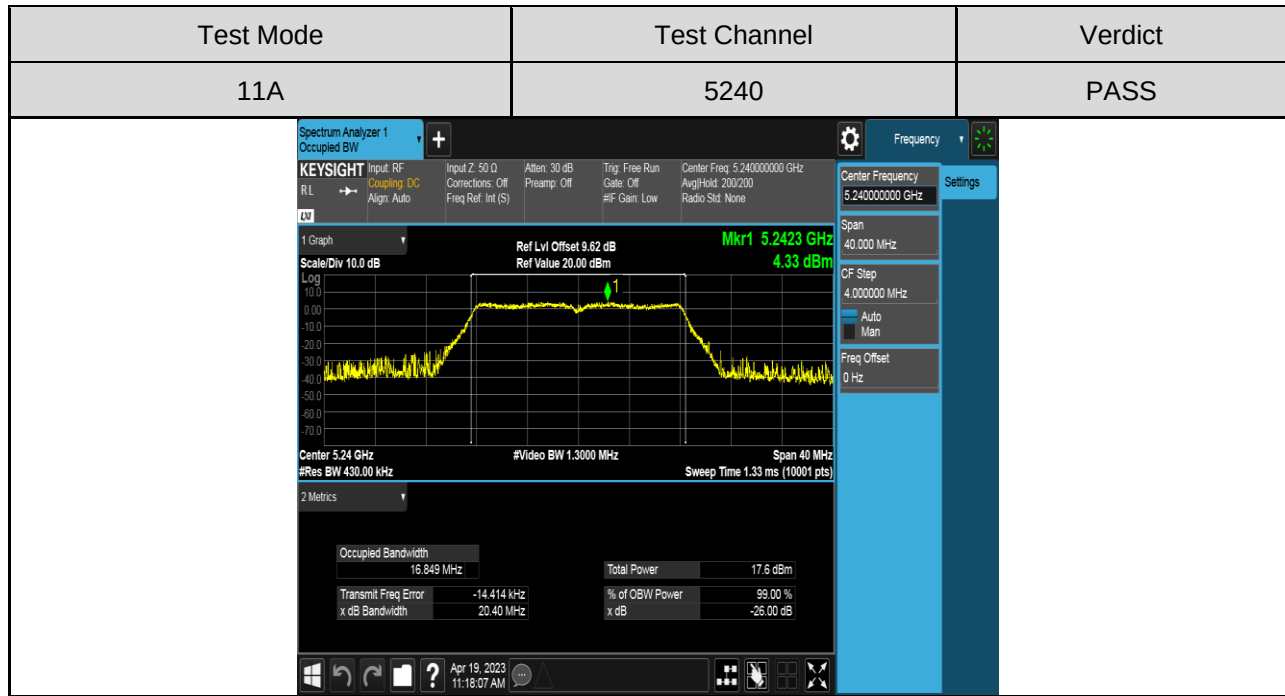
1 Graph
 Scale/Div 10.0 dB
 Log
 Ref Lvl Offset 9.62 dB
 Ref Value 20.00 dBm
 Mkr1 5.1971 GHz
 4.81 dBm

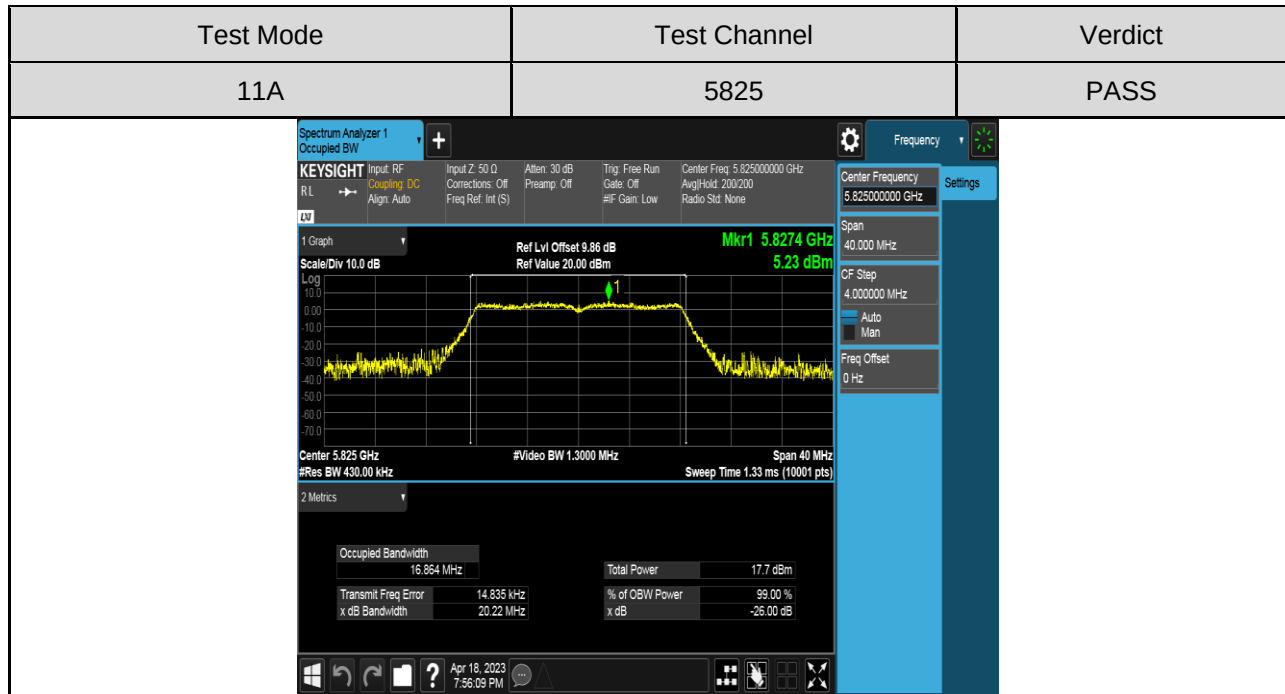
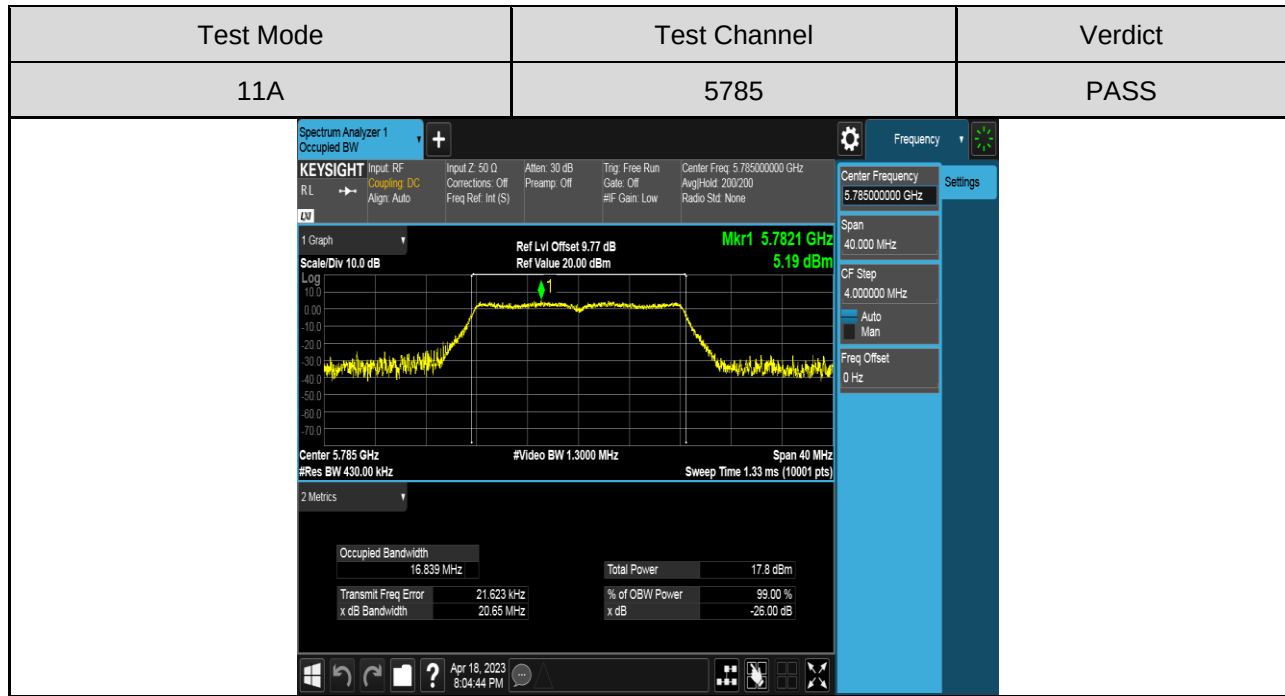
Center 5.2 GHz
 #Res BW 430.00 kHz
 #Video BW 1.3000 MHz
 Span 40 MHz
 Sweep Time 1.33 ms (10001 pts)

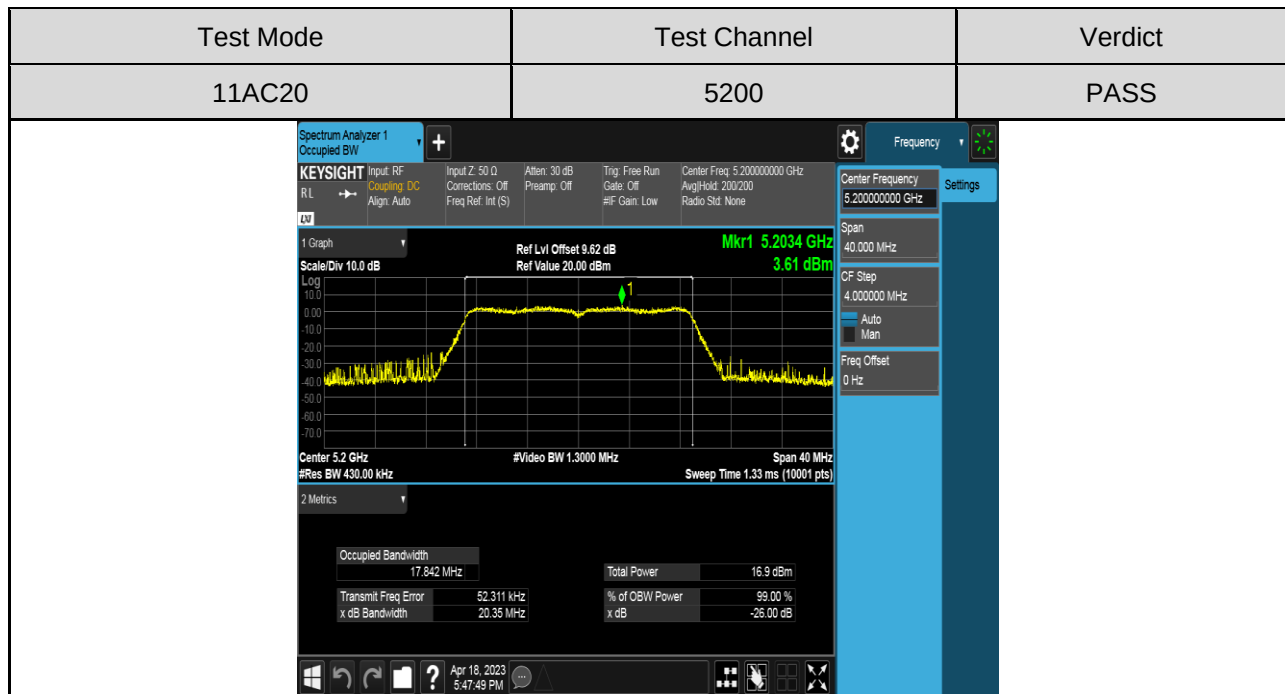
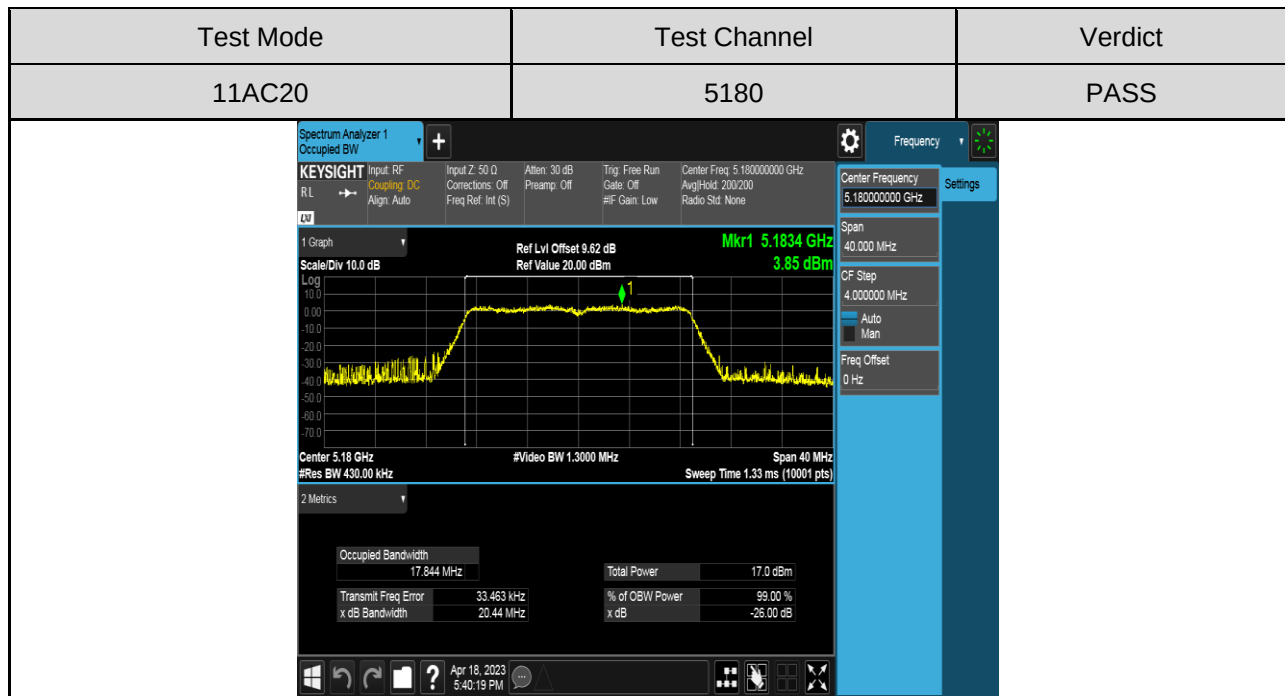
2 Metrics

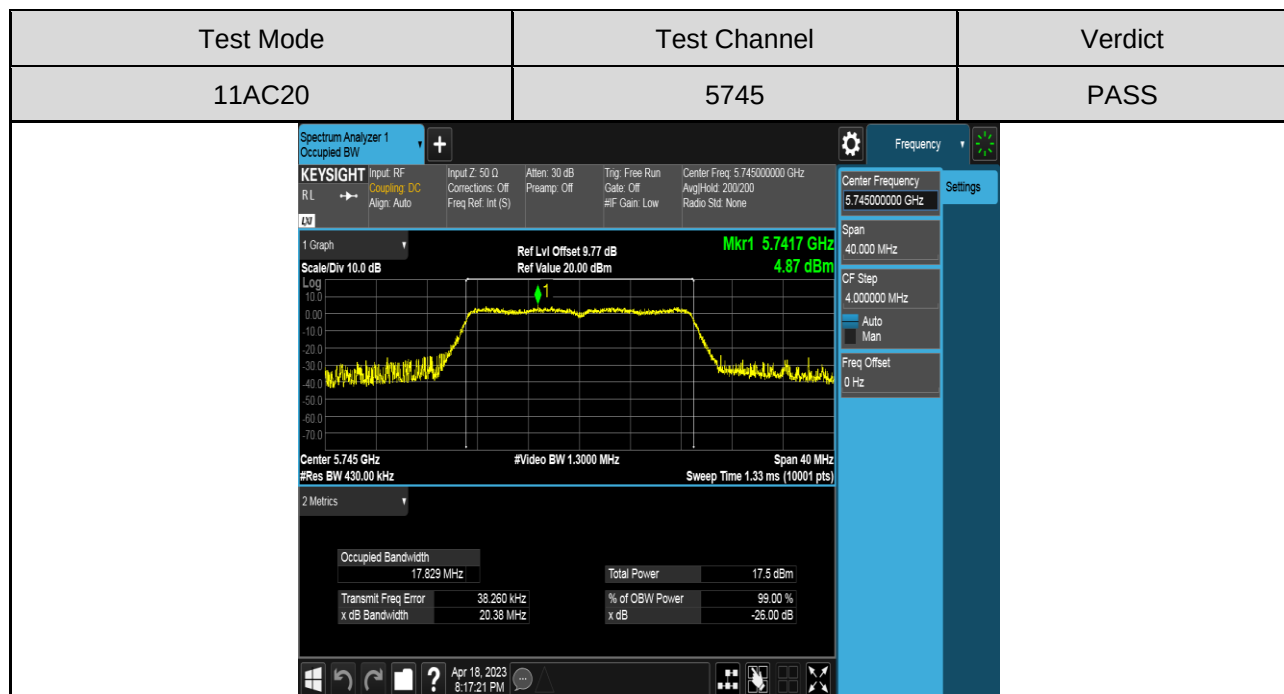
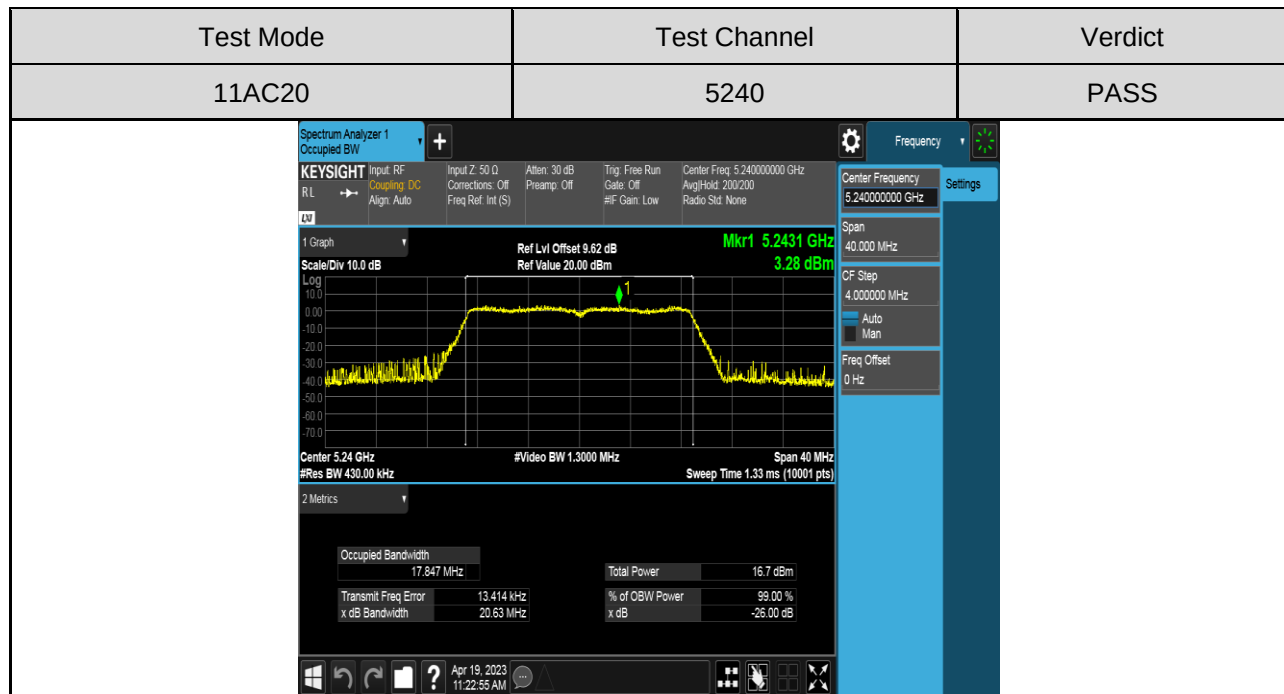
Occupied Bandwidth	16.851 MHz	Total Power	17.7 dBm
Transmit Freq Error	2.705 kHz	% of OBW Power	99.00 %
x dB Bandwidth	20.06 MHz	x dB	-26.00 dB

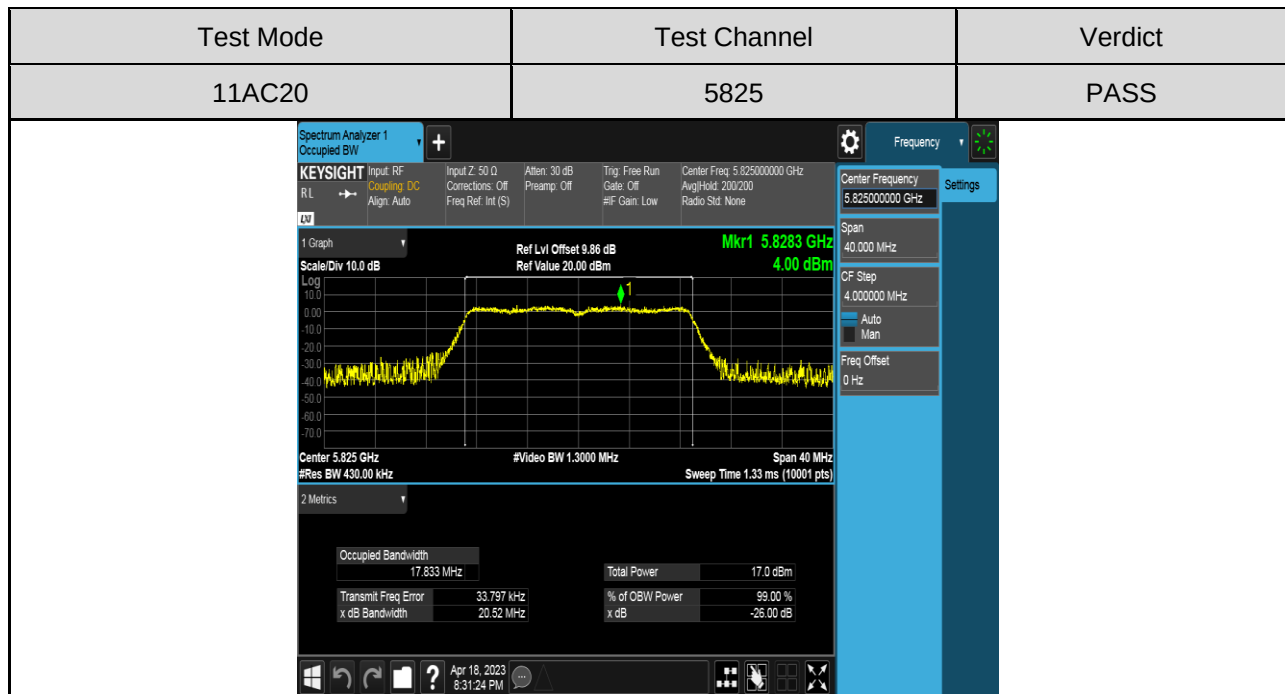
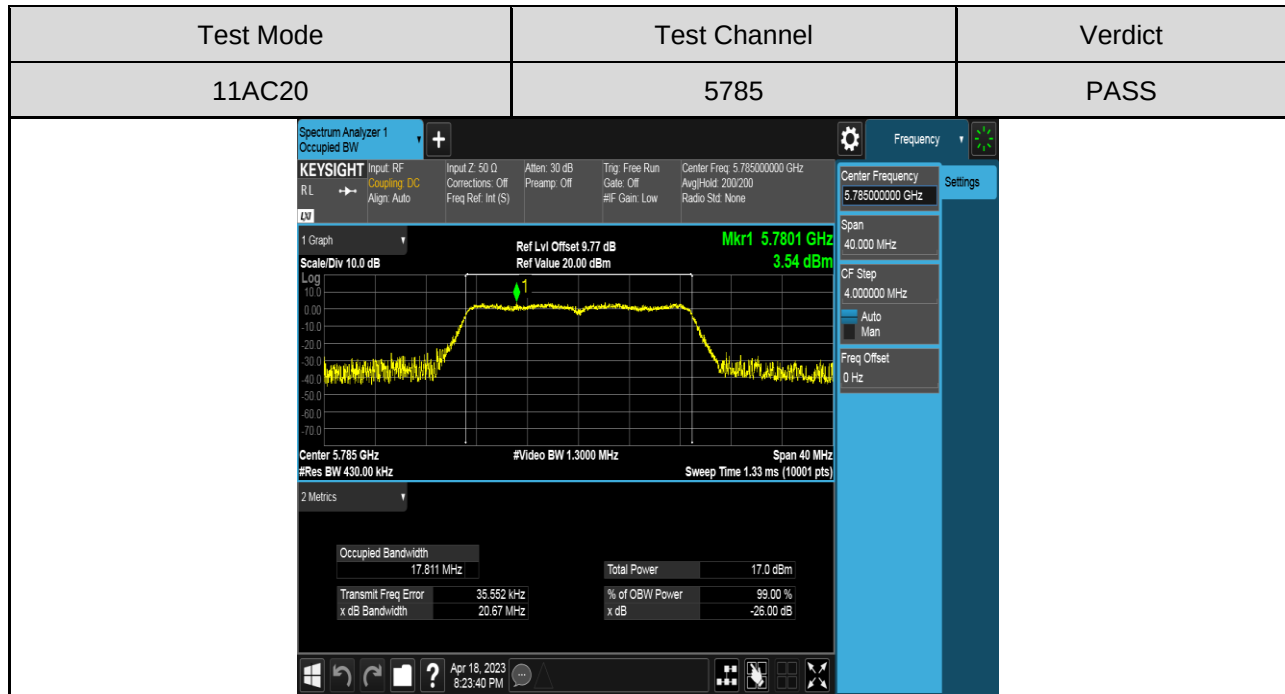
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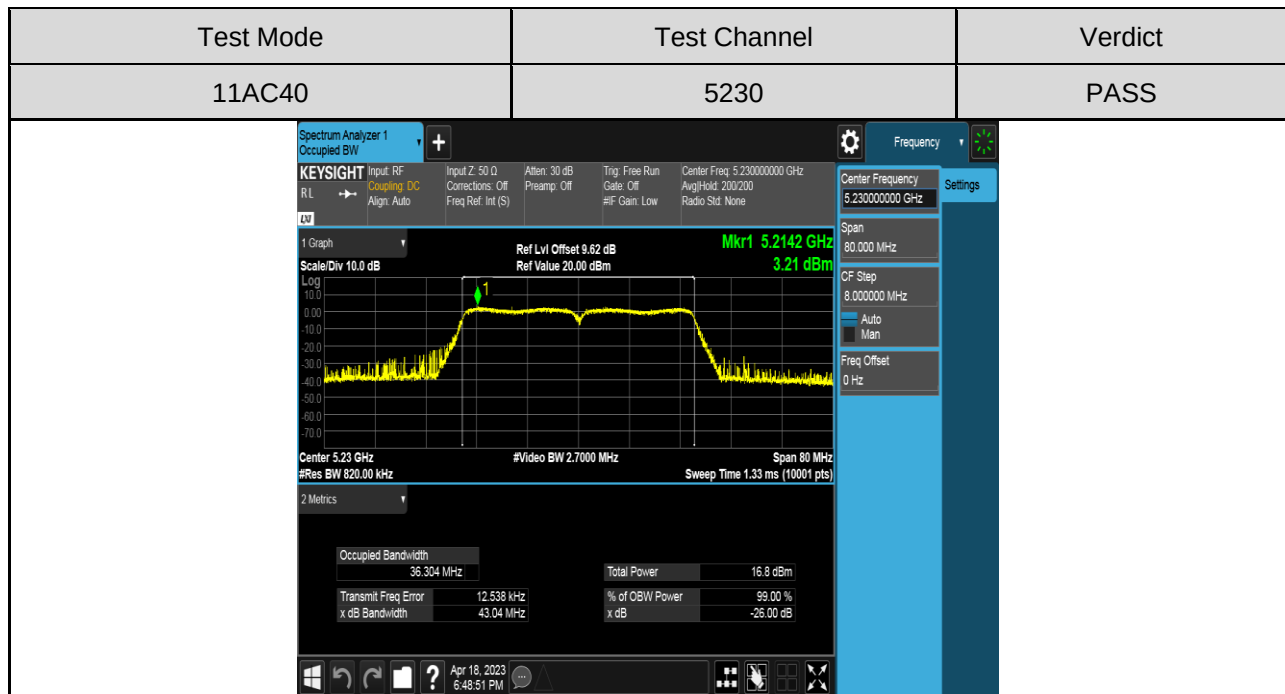
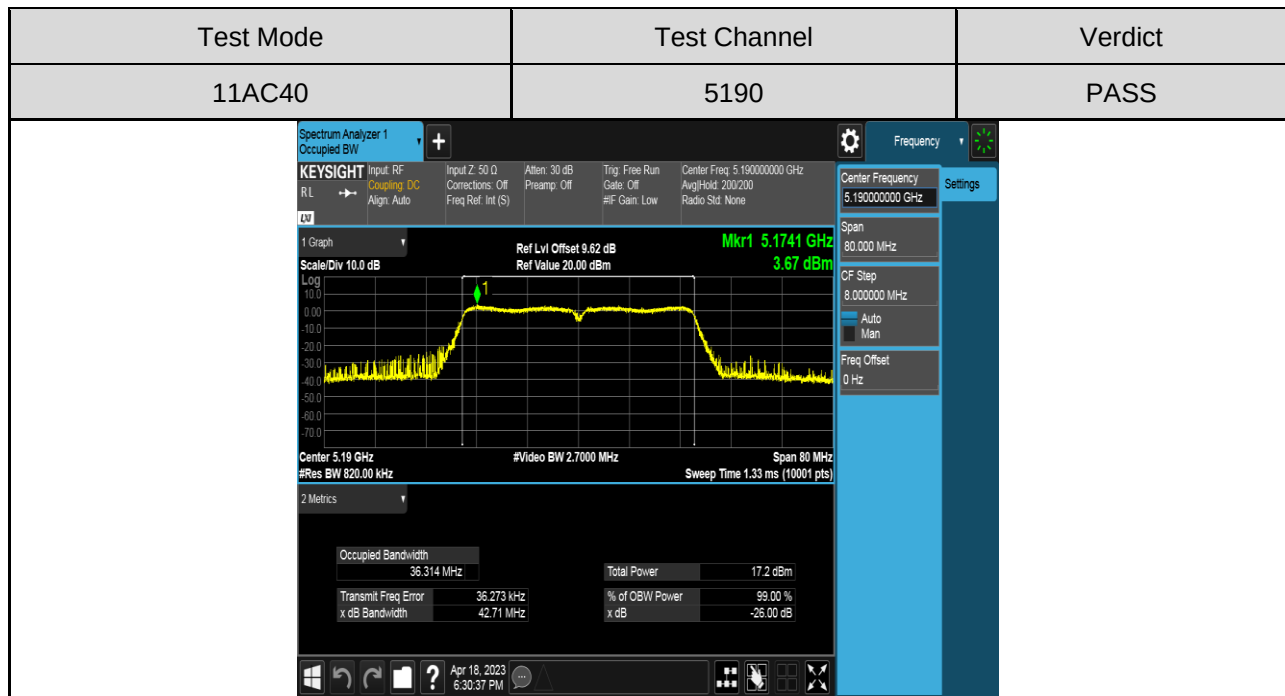


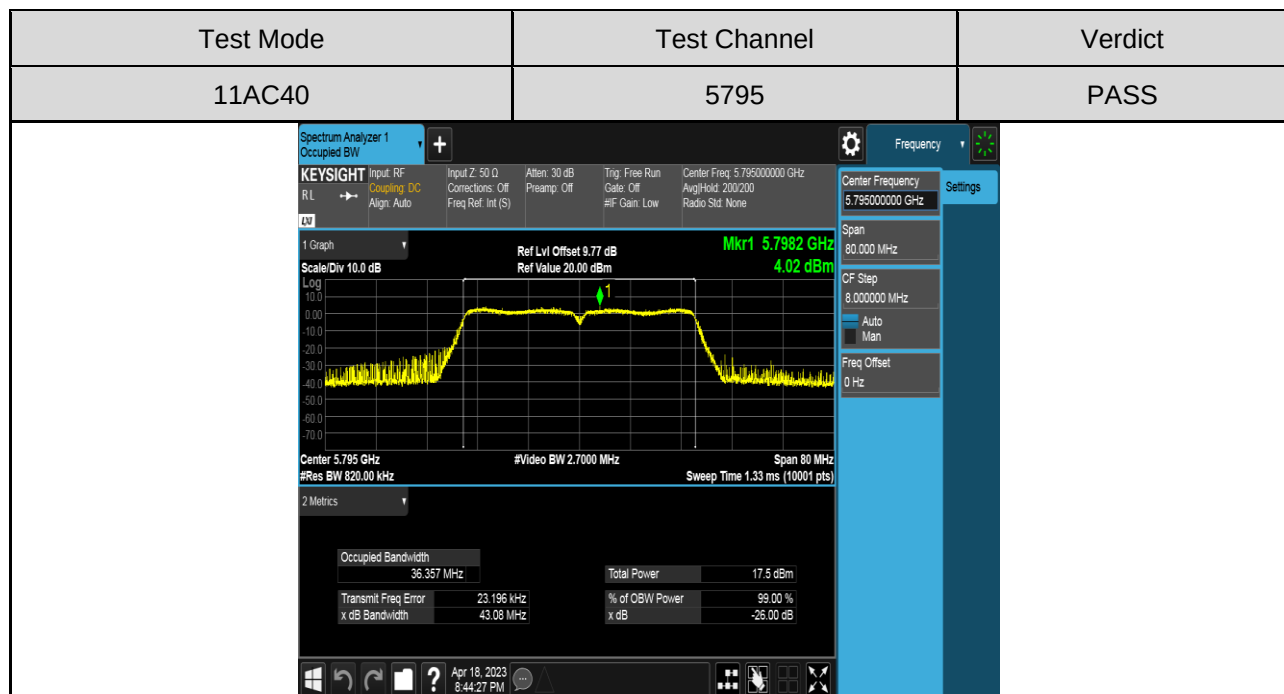
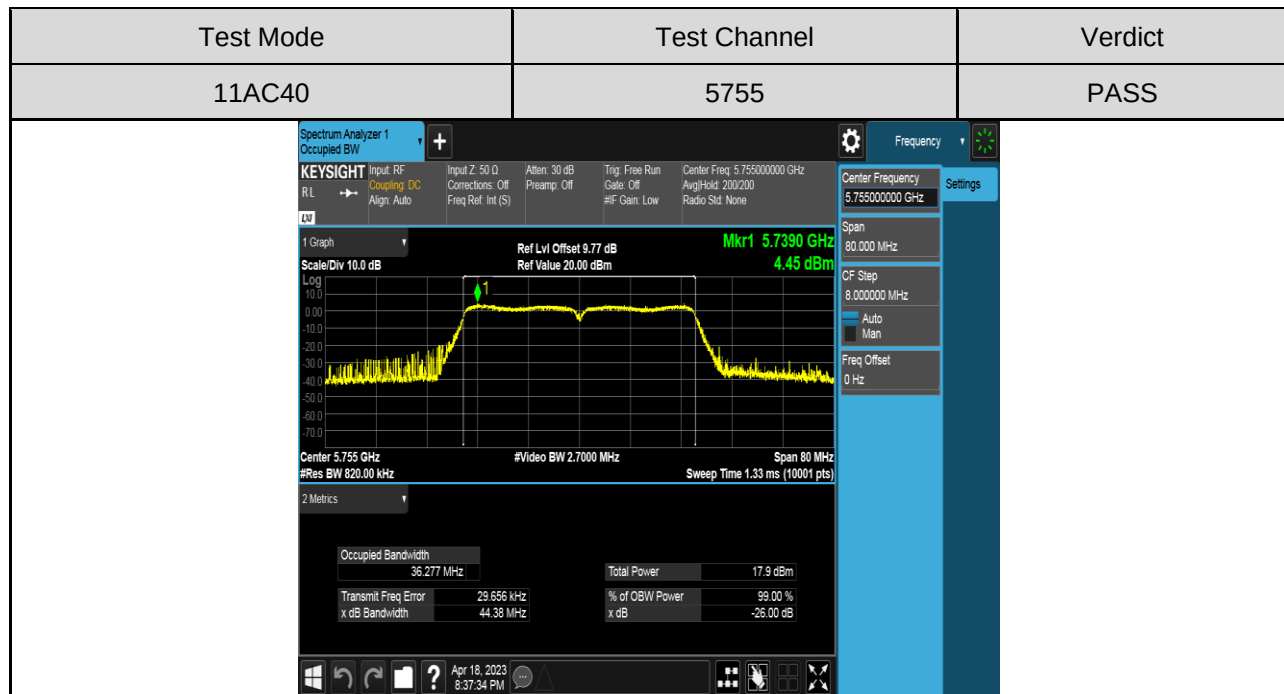


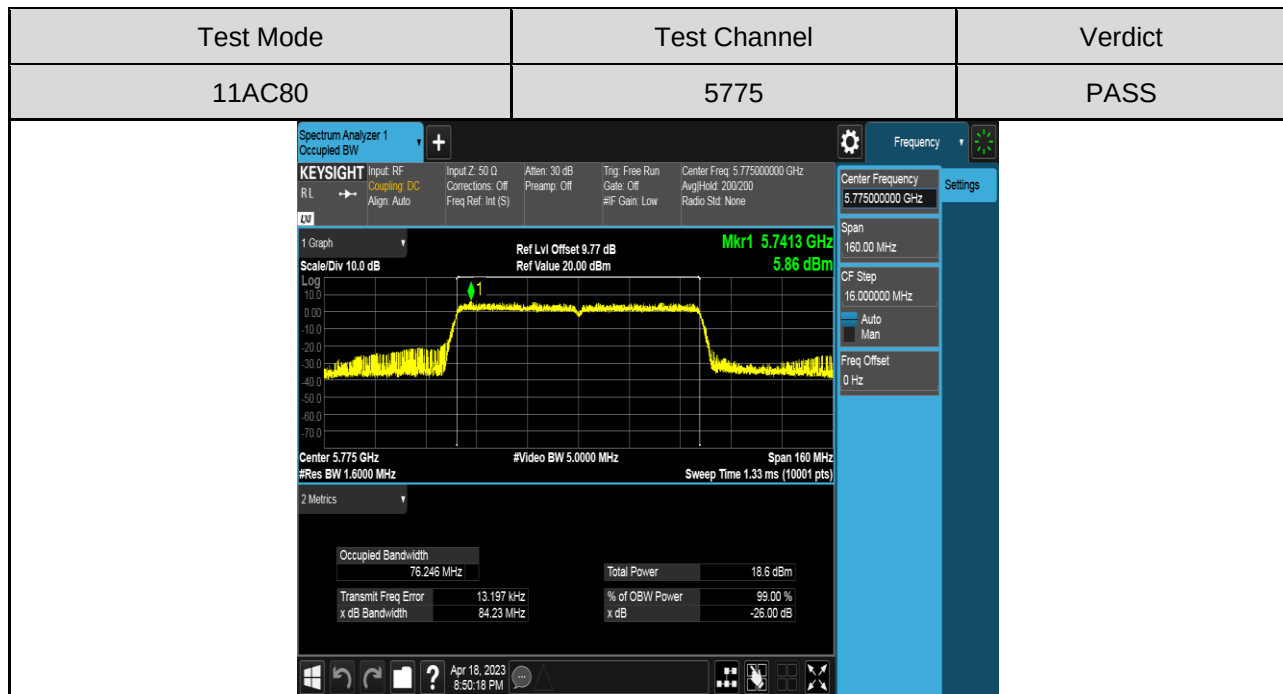
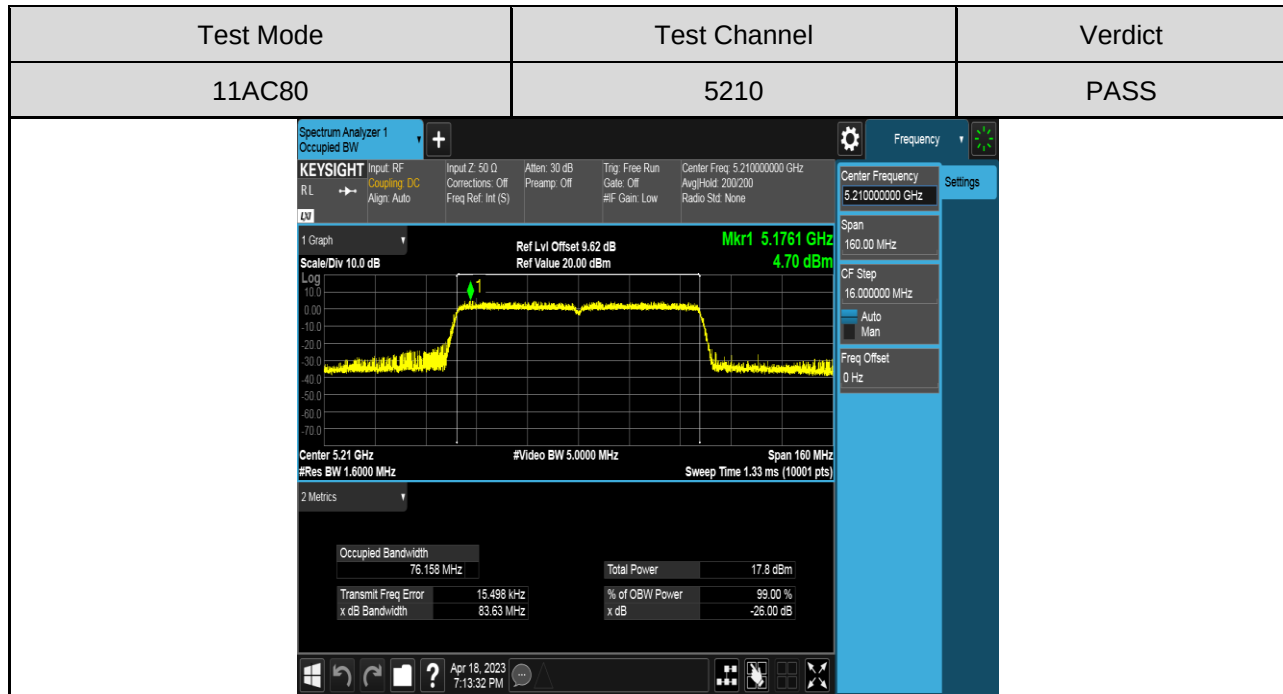












For 6 dB Emission Bandwidth:

