



**CFR 47 FCC PART 15 SUBPART E
CERTIFICATION TEST REPORT**

For

Amcrest 4MP Video Doorbell Camera

MODEL NUMBER: AD410

PROJECT NUMBER: 4790425401-2.1

REPORT NUMBER: 4790425401-2.1-2

FCC ID: ZZ2-AD410

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Prepared for

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Prepared by

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V0	06/30/2022	Initial Issue	



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Amcrest Technologies LLC.
Address: 16727 Park Row Dr, Houston, TX 77084, United States Of America

Manufacturer Information

Company Name: Amcrest Technologies LLC.
Address: 16727 Park Row Dr, Houston, TX 77084, United States Of America

EUT Description

Product Name: Amcrest 4MP Video Doorbell Camera
Model Number: AD410
Model Difference: N/A
Sample Number: 4991737
Data of Receipt Sample: May 31,2022
Date Tested: May 31, 2022– Jun. 30, 2022

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART E	PASS



Summary of Test Results			
Clause	Test Items	FCC Rules	Test Results
1	6dB/26dB Bandwidth	FCC 15.407 (a)&(e)	PASS
2	Conducted Output Power	FCC 15.407 (a)	PASS
3	Power Spectral Density	FCC 15.407 (a)	PASS
4	Radiated Bandedge and Spurious Emission	FCC 15.407 (b) FCC 15.209 FCC 15.205	PASS
5	Conducted Emission Test for AC Power Port	FCC 15.207	PASS
6	Frequency Stability	FCC 15.407 (g)	PASS
7	Dynamic Frequency Selection	FCC 15.407 (h)	PASS
8	Antenna Requirement	FCC 15.203	PASS
Remark: 1) The measurement result for the sample received is <Pass> according to < ANSI C63.10-2013, CFR 47 FCC Part 2, CFR 47 FCC Part 15 E> when <Accuracy Method> 2) It is a slave device without radar detection.			

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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, KDB414788 D01 Radiated Test Site v01r01, KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 and 905462 Client Without DFS New Rules v01r02.

3. FACILITIES AND ACCREDITATIO

Test Location	UL-CCIC Company Limited, EMC&RF Lab
Address	No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, China
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.

Remark 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, People's Republic of China

Remark 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 based on KDB 414788.

Remark 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
Uncertainty for Conduction emission test	3.1dB
Uncertainty for Radiation Emission test (include Fundamental emission) (9KHz-30MHz)	3.4dB
Uncertainty for Radiation Emission test (include Fundamental emission) (30MHz-1GHz)	3.4dB
Uncertainty for Radiation Emission test (1GHz to 40GHz) (include Fundamental emission)	3.7dB (1GHz-18Gz)
	4.0dB (18GHz-26.5Gz)
	4.8dB (26.5GHz-40Gz)
Remark: 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:	Amcrest 4MP Video Doorbell Camera	
Model No.:	AD410	
Operating Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz IEEE 802.11a/n/ac 20MHz:5180MHz to 5240MHz, 5260MHz to 5320MHz, 5500MHz to 5720MHz, 5745MHz to 5825MHz IEEE 802.11n/ac 40MHz: 5190MHz to 5230MHz, 5270MHz to 5310MHz, 5510MHz to 5710MHz, 5755MHz-5795MHz IEEE 802.11ac 80MHz: 5210MHz, 5290MHz, 5530MHz to 5690MHz, 5775MHz	
	This report just including 5G WIFI part.	
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:	SecureCRT (manufacturer declare)	
Antenna Type:	PCB Integral antenna	
Antenna Gain:	UNII-1 BAND	Antenna1: 1.31 dBi
		Antenna2: 2.63 dBi
	UNII-2A BAND	Antenna1: 1.92 dBi
		Antenna2: 2.83 dBi
	UNII-2C BAND	Antenna1: 2.99 dBi
		Antenna2: 2.33 dBi
UNII-3 BAND	Antenna1: 1.91 dBi	
	Antenna2: -1.41 dBi	
Remark: This data is provided by customer and our lab isn't responsible for this data		
Test Voltage	AC120V/ 60Hz	



5.2. MAXIMUM OUTPUT POWER

UNII-1 BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)			Max Average EIRP (dBm)		
		Ant 1	Ant 2	Total	Ant 1	Ant 2	Total
a	5150 ~ 5250	15.06	/	/	16.37	/	/
ac VHT20		13.53	3.77	13.88	14.84	6.40	18.88
ac VHT40		14.28	4.76	14.74	15.59	7.39	19.74
ac VHT80		13.66	4.17	14.12	14.97	6.80	19.12

UNII-2A BAND

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)		
		Ant 1	Ant 2	Total
a	5250 ~ 5350	14.85	/	/
ac VHT20		13.83	0.53	14.03
ac VHT40		14.64	2.09	14.87
ac VHT80		13.57	1.14	13.81

UNII-2C BAND

IEEE Std. 802.11	Frequency (MHz)	Max Power (dBm)		
		Ant 1	Ant 2	Total
a	5470 ~ 5725	16.05	/	/
ac VHT20		15.22	-1.00	15.32
ac VHT40		15.85	0.21	15.97
ac VHT80		14.84	-0.88	14.62

UNII-3 BAND

IEEE Std. 802.11	Frequency (MHz)	Max Power (dBm)		
		Ant 1	Ant 2	Total
a	5725 ~ 5850	14.65	/	/
ac VHT20		13.86	-3.73	13.90
ac VHT40		14.28	-2.65	14.34
ac VHT80		13.17	-4.14	13.25

Remark: Only the antenna1 can transmit at the 11a mode.



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				

UNII-2A (For Bandwidth = 20 MHz)		UNII-2A (For Bandwidth = 40 MHz)		UNII-2A (For Bandwidth = 80 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

UNII-2C (For Bandwidth = 20 MHz)		UNII-2C (For Bandwidth = 40 MHz)		UNII-2C (For Bandwidth = 80 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

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-2A Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a	CH 52(Low Channel), CH 56(MID Channel), CH 64(High Channel)	5260 MHz, 5280 MHz, 5320 MHz
802.11n HT20	CH 52(Low Channel), CH 56(MID Channel), CH 64(High Channel)	5260 MHz, 5280 MHz, 5320 MHz
802.11n HT40	CH 54(Low Channel), CH 62(High Channel)	5270 MHz, 5310 MHz
802.11ac VHT20	CH 52(Low Channel), CH 56(MID Channel), CH 64(High Channel)	5260 MHz, 5280 MHz, 5320 MHz
802.11ac VHT40	CH 54(Low Channel), CH 62(High Channel)	5270 MHz, 5310 MHz
802.11ac VHT80	CH 58(Low Channel)	5290 MHz

UNII-2C Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a	CH 100(Low Channel), CH 116(MID Channel), CH 140(MID Channel), CH 144(High Channel)	5500 MHz, 5580 MHz, 5700 MHz, 5720 MHz
802.11n HT20	CH 100(Low Channel), CH 116(MID Channel), CH 140(MID Channel), CH 144(High Channel)	5500 MHz, 5580 MHz, 5700 MHz, 5720 MHz
802.11n HT40	CH 102(Low Channel), CH 110(MID Channel), CH 134(MID Channel), CH 142(High Channel)	5510 MHz, 5550 MHz, 5670 MHz, 5710 MHz,
802.11ac VHT20	CH 100(Low Channel), CH 116(MID Channel), CH 140(MID Channel), CH 144(High Channel)	5500 MHz, 5580 MHz, 5700 MHz, 5720 MHz
802.11ac VHT40	CH 102(Low Channel), CH 110(MID Channel), CH 134(MID Channel), CH 142(High Channel)	5510 MHz, 5550 MHz, 5670 MHz, 5710 MHz,
802.11ac VHT80	CH 102(Low Channel), CH 122(MID Channel) CH 138(High Channel)	5530 MHz, 5610 MHz, 5690 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	Directional Gain (dBi)
			(dBi)	MIMO Mode
1	UNII-1	Patch	1.31 dBi	5.00
2	UNII-1	Patch	2.63 dBi	
1	UNII-2A	Patch	1.92 dBi	5.40
2	UNII-2A	Patch	2.83 dBi	
1	UNII-2C	Patch	2.99 dBi	5.68
2	UNII-2C	Patch	2.33 dBi	
1	UNII-3	Patch	1.91 dBi	3.41
2	UNII-3	Patch	-1.41 dBi	

IEEE Std. 802.11	Transmit and Receive Mode	Description
a	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
n HT20	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1, 2 can be used as transmitting/receiving antenna.
n HT40	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1, 2 can be used as transmitting/receiving antenna.
ac VHT20	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1, 2 can be used as transmitting/receiving antenna.
ac VHT40	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1, 2 can be used as transmitting/receiving antenna.
ac VHT80	<input checked="" type="checkbox"/> 2TX, 2RX	ANT 1, 2 can be used as transmitting/receiving antenna.

Remark: 1. Only 802.11n and 802.11ac modes can support for SISO and MIMO transmission, and for the modes of 11a only the antenna1 is working.
2. 2.4 GHz WLAN& 5 GHz WLAN can't transmit simultaneously. (Declared by customer.)

Remark : MIMO Mode Directional gain= $10 \log [(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$
 G_{ANT} : Average of the Antenna Gain
 N_{ANT} : Antenna numbers



5.6. THE WORSE CASE POWER SETTING PARAMETER

The Worst Case Power Setting Parameter	
Test Software	Secure CRT

UNII-1

IEEE Std. 802.11	Rate	Channel	Test Software Setting Value	
			ANT 1	ANT 2
a	6M	36	default	/
		40	default	/
		48	default	/
ac VHT20	MCS0	36	default	default
		40	default	default
		48	default	default
ac VHT40	MCS0	38	default	default
		46	default	default
ac VHT80	MCS0	42	default	default

UNII-2A

IEEE Std. 802.11	Rate	Channel	Test Software Setting Value	
			ANT 1	ANT 2
a	6M	52	default	/
		60	default	/
		64	default	/
ac VHT20	MCS0	52	default	default
		60	default	default
		64	default	default
ac VHT40	MCS0	54	default	default
		62	default	default
ac VHT80	MCS0	58	default	default



UNII-2C

IEEE Std. 802.11	Rate	Channel	Test Software Setting Value	
			ANT 1	ANT 2
a	6M	100	default	/
		116	default	/
		140	default	/
		144	default	/
ac VHT20	MCS0	100	default	default
		116	default	default
		140	default	default
		144	default	default
ac VHT40	MCS0	102	default	default
		118	default	default
		134	default	default
		142	default	default
ac VHT80	MCS0	106	default	default
		122	default	default
		138	default	default


UNII-3

IEEE Std. 802.11	Rate	Channel	Test Software Setting Value	
			ANT 1	ANT 2
a	6M	149	default	/
		157	default	/
		165	default	/
ac VHT20	MCS0	149	default	default
		157	default	default
		165	default	default
ac VHT40	MCS0	151	default	default
		159	default	default
ac VHT80	MCS0	155	default	default

Remark: 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 is recorded in this report.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Description
1	Laptop	ThinkPad	E590	N/A
2	SD Card	N/A	N/A	Supply by UL Lab
3	Fixed Frequency Board	N/A	N/A	Supply by Customer
4	Power Adapter	MASS POWER	ADS-12AM-12 12012-EPCU	INPUT:100-240V~, 50/60Hz, 0.3A OUTPUT:5.0V  1.0A

I/O PORT

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	USB to TTL	USB	100cm Length (Supply by UL Lab)	N/A

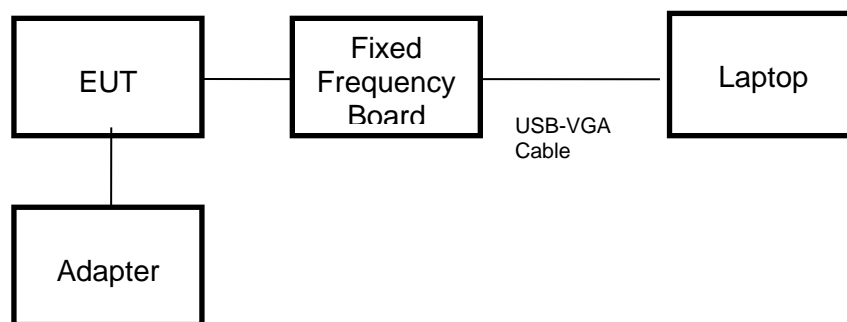
ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	N/A	N/A	N/A	N/A

TEST SETUP

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

SETUP DIAGRAM FOR TESTS



Remark: The EUT has been built one Micro SD card during the testing



5.8. MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions (Instrument)							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	EMI Test Receiver	R&S	ESR3	126700	2020-12-05	2021-12-04	2022-12-03
<input checked="" type="checkbox"/>	Two-Line V-Network	R&S	ENV216	126701	2020-12-05	2021-12-04	2022-12-03
Software							
Used	Description	Manufacturer	Name	Version			
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	Spectrum Analyzer	Keysight	N9010B	155727	2021-05-09	2022-04-09	2023-04-08
<input checked="" type="checkbox"/>	EMI test receiver	R&S	ESR26	126703	2020-12-05	2021-12-04	2022-12-03
<input checked="" type="checkbox"/>	Receiver Antenna (9kHz-30MHz)	Schwarzbeck	FMZB 1513	155456	2018-06-15	2021-06-03	2024-06-02
<input checked="" type="checkbox"/>	Receiver Antenna (30MHz-1GHz)	SunAR RF Motion	JB1	177821	2019-01-28	2022-01-18	2025-01-17
<input checked="" type="checkbox"/>	Receiver Antenna (1GHz-18GHz)	R&S	HF907	126705	2018-01-29	2022-02-28	2025-02-27
<input checked="" type="checkbox"/>	Receiver Antenna (18GHz-26.5GHz)	ETS	3160-10	155565	2019-01-05	2021-07-15	2024-07-14
<input checked="" type="checkbox"/>	Pre-amplification (To 18GHz)	Compliance Direction System Inc.	PAP-1G18-50	177825	2021-03-18	2022-03-01	2023-02-28
<input checked="" type="checkbox"/>	Pre-amplification (To 26.5GHz)	R&S	SCU-26D	135391	2021-12-05	2022-12-04	2022-12-03
<input checked="" type="checkbox"/>	Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	1	2021-05-09	2022-04-09	2023-04-08
<input checked="" type="checkbox"/>	Highpass Filter	Wainwright	WHKX10-2700-3000-18000-40SS	2	2021-05-09	2022-04-09	2023-04-08
Software							
Used	Description	Manufacturer	Name	Version			
<input checked="" type="checkbox"/>	Test Software for Radiated disturbance	Tonscend	JS36-RSE	4.0.0.1			
Other instruments							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	Spectrum Analyzer	Keysight	N9010B	155368	2021-05-09	2022-04-09	2023-04-08
<input checked="" type="checkbox"/>	Power Meter	Keysight	U2021XA	155370	2021-05-09	2022-04-09	2023-04-08



6. ANTENNA PORT TEST RESULTS

6.1. TEST ENVIRONMENT

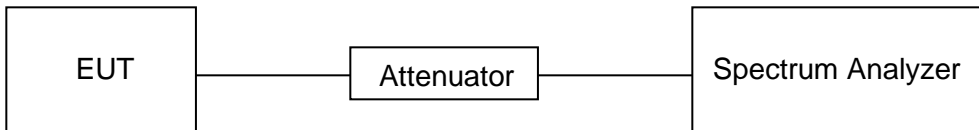
Environment Parameter	Selected Values During Tests
Relative Humidity	59.3%
Atmospheric Pressure:	102kPa
Temperature	24.6°C

6.2. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

TEST SETUP



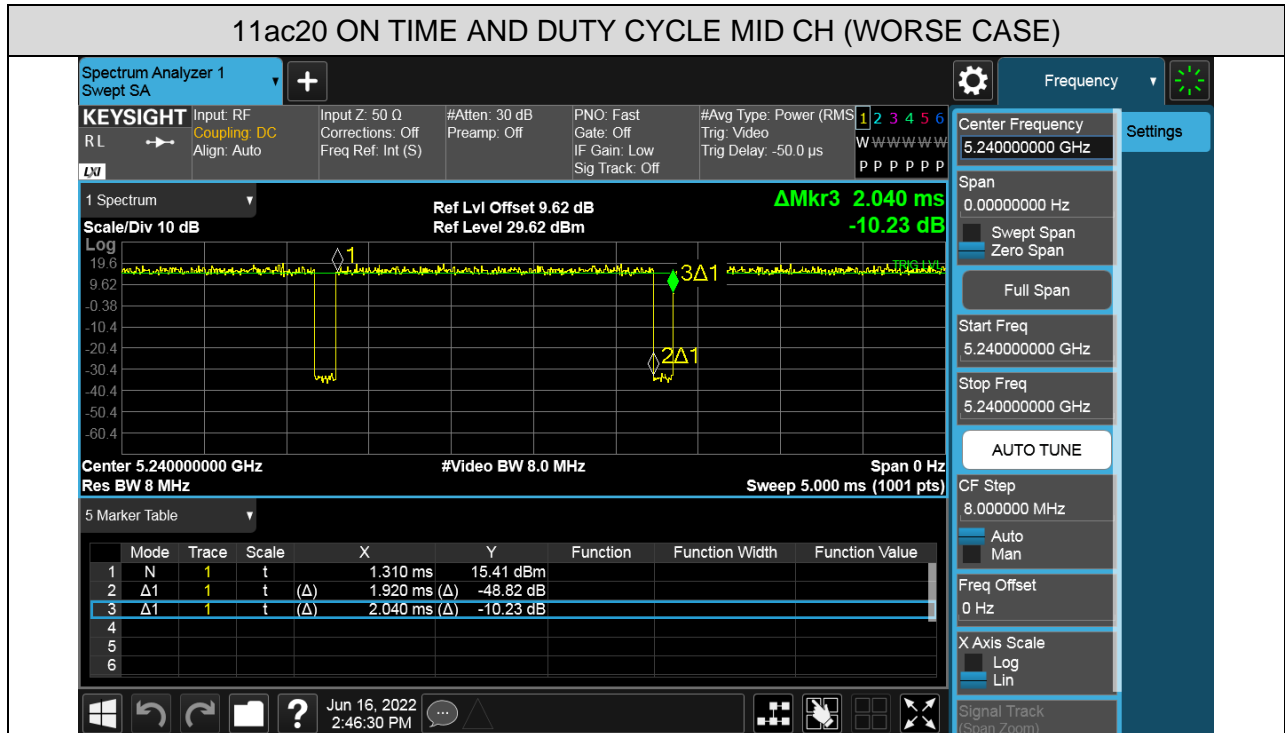
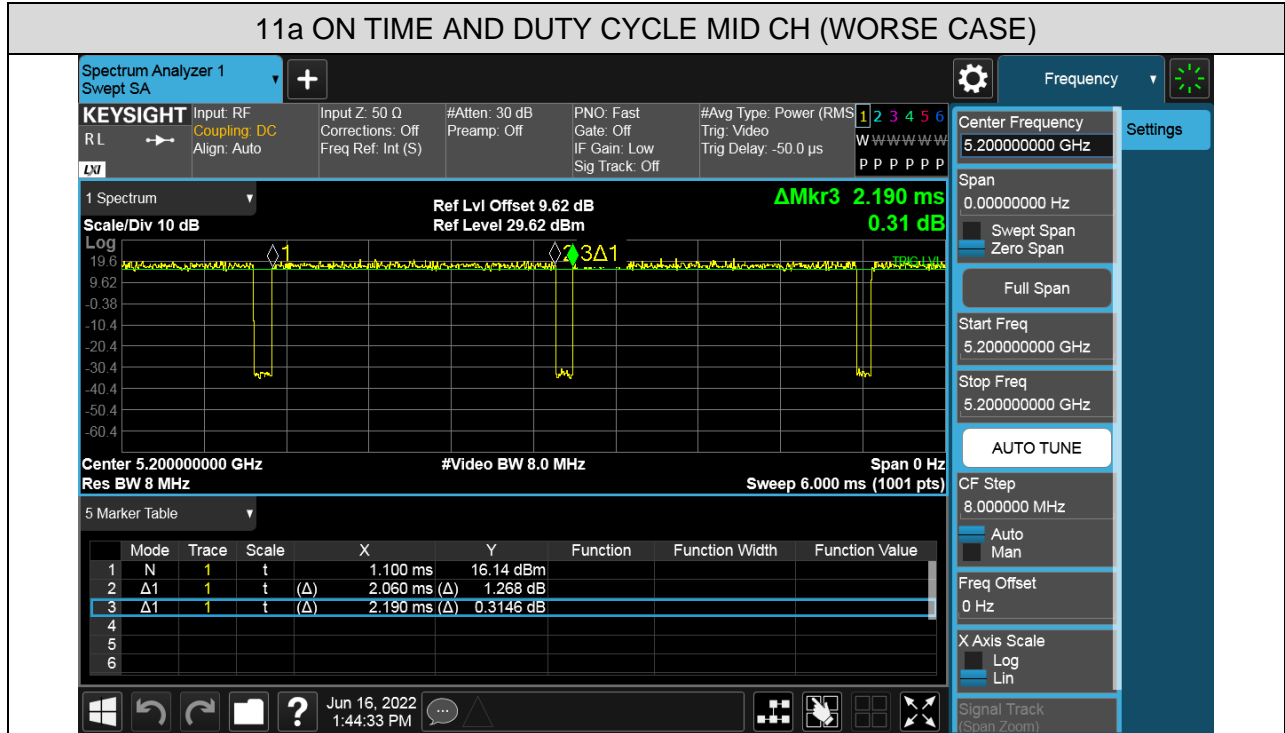
RESULTS

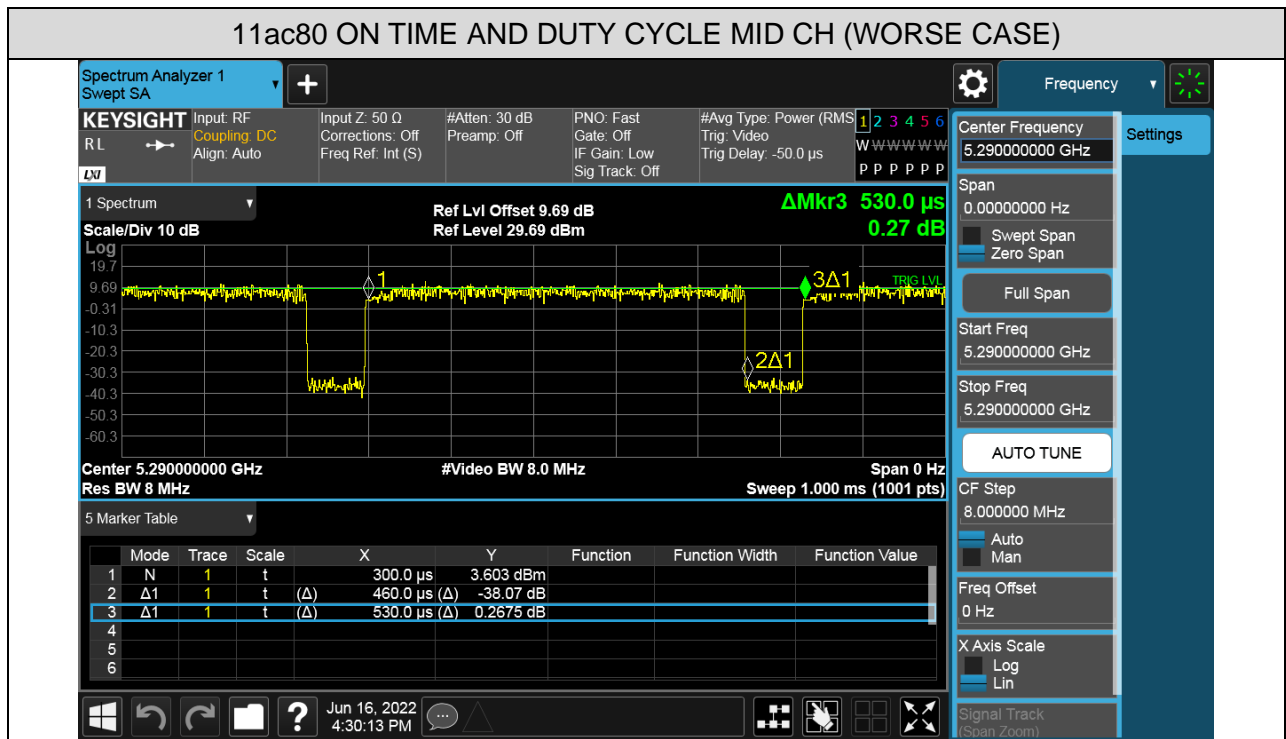
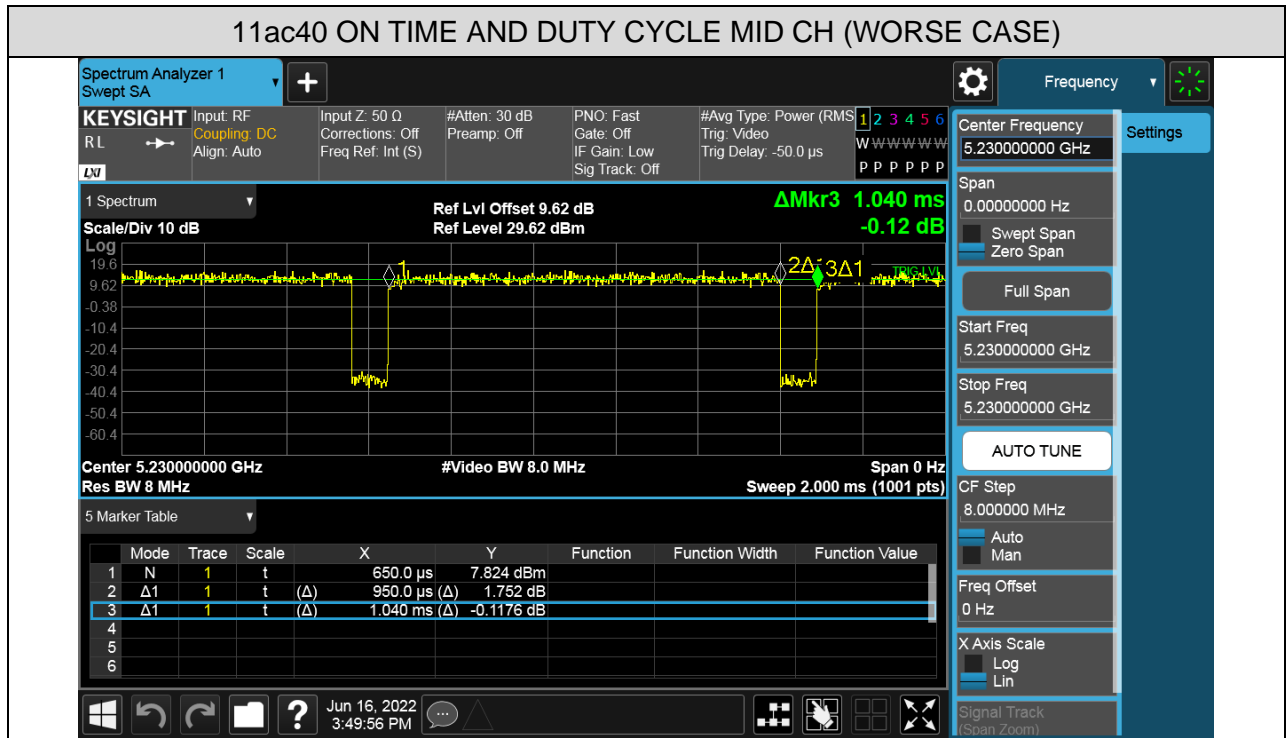
ANTENNA 1

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	2.06	2.19	0.941	94.1	0.26	0.49	1
11ac HT20	1.92	2.04	0.941	94.1	0.26	0.52	1
11ac HT40	0.95	1.04	0.913	91.3	0.40	1.05	2
11ac HT80	0.46	0.53	0.868	86.8	0.61	2.17	3

Remark:

1. Duty Cycle Correction Factor=10log (1/x).
2. Where: x is Duty Cycle (Linear)
3. Where: T is On Time
4. If that calculated VBW is not available on the analyzer then the next higher value should be used.
5. Antenna 1 and Antenna 2 has the same duty cycle, only Antenna 1 data show here.







6.3. 6dB/26dB BANDWIDTH

LIMITS

CFR 47 FCC Part15, Subpart E		
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
6 dB Emission Bandwidth	The minimum 6 dB emission bandwidth shall be 500 kHz.	5725 ~ 5850

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.
VBW	For 6 dB Bandwidth: $\geq 3 \cdot \text{RBW}$ For 26 dB Bandwidth: $> \text{RBW}$
Trace	Max hold
Sweep	Auto couple

- a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- b) 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.



Calculation for 6dB Bandwidth of UNII-3 Straddle Channel:

For Example: Fundamental frequency: 5720 MHz

6 dB BW: 16.44 MHz

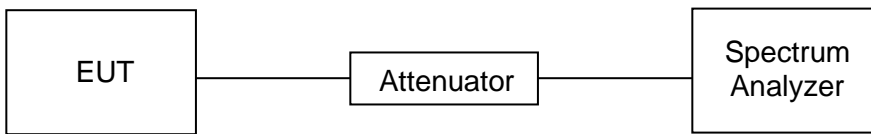
FL: 5711.76 MHz

FH: 5728.2 MHz

Turning Frequency: 5725 MHz

6 dB Bandwidth of UNII-3 band Portion = $5728.2 - 5725 = 3.2$ MHz

TEST SETUP





RESULTS TABLE ANTENNA 1 (WORST-CASE CONFIGURATION)

1) 26 dB Emission Bandwidth Part:

Test Mode	Antenna	Channel	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5180	20.640	5169.760	5190.400	PASS
		5200	20.600	5189.600	5210.200	PASS
		5240	20.640	5229.520	5250.160	PASS
		5260	20.280	5249.960	5270.240	PASS
		5280	21.000	5269.400	5290.400	PASS
		5320	20.840	5309.480	5330.320	PASS
		5500	23.760	5488.440	5512.200	PASS
		5580	21.800	5568.840	5590.640	PASS
		5700	21.160	5689.160	5710.320	PASS
		5720	20.720	5709.440	5730.160	PASS
		5720_UNII-2C	15.560	5709.440	5725.000	PASS
		5720_UNII-3	5.160	5725.000	5730.160	PASS
		5745	20.560	5734.560	5755.120	PASS
		5785	20.720	5774.600	5795.320	PASS
5825	20.560	5814.560	5835.120	PASS		
11AC20 MIMO	Ant1	5180	21.360	5169.200	5190.560	PASS
		5200	21.520	5189.160	5210.680	PASS
		5240	20.960	5229.520	5250.480	PASS
		5260	20.920	5249.520	5270.440	PASS
		5280	20.600	5269.680	5290.280	PASS
		5320	21.000	5309.560	5330.560	PASS
		5500	21.440	5489.320	5510.760	PASS
		5580	22.680	5569.080	5591.760	PASS
		5700	20.840	5689.520	5710.360	PASS
		5720	21.200	5709.240	5730.440	PASS
		5720_UNII-2C	15.760	5709.240	5725.000	PASS
		5720_UNII-3	5.440	5725.000	5730.440	PASS
		5745	20.960	5734.600	5755.560	PASS
		5785	21.320	5774.240	5795.560	PASS
5825	20.880	5814.480	5835.360	PASS		
11AC40 MIMO	Ant1	5190	42.960	5168.320	5211.280	PASS
		5230	42.480	5208.480	5250.960	PASS
		5270	42.560	5248.640	5291.200	PASS
		5310	43.280	5288.160	5331.440	PASS
		5510	56.880	5488.800	5545.680	PASS
		5550	43.760	5528.640	5572.400	PASS
		5670	42.880	5648.400	5691.280	PASS
		5710	43.280	5688.480	5731.760	PASS
		5710_UNII-2C	36.520	5688.480	5725.000	PASS
		5710_UNII-3	6.760	5725.000	5731.760	PASS
		5755	42.720	5733.640	5776.360	PASS
		5795	42.880	5773.560	5816.440	PASS
11AC80 MIMO	Ant1	5210	82.080	5169.840	5251.920	PASS
		5290	81.600	5248.560	5330.160	PASS
		5530	82.240	5489.360	5571.600	PASS
		5610	81.600	5569.200	5650.800	PASS
		5690	81.440	5649.200	5730.640	PASS
		5690_UNII-2C	75.800	5649.200	5725.000	PASS
		5690_UNII-3	5.640	5725.000	5730.640	PASS
		5775	82.400	5733.400	5815.800	PASS

Remark: The two antennas had been tested, but only the worst data was recorded in the report.



2) 6dB Minimum Emission Bandwidth

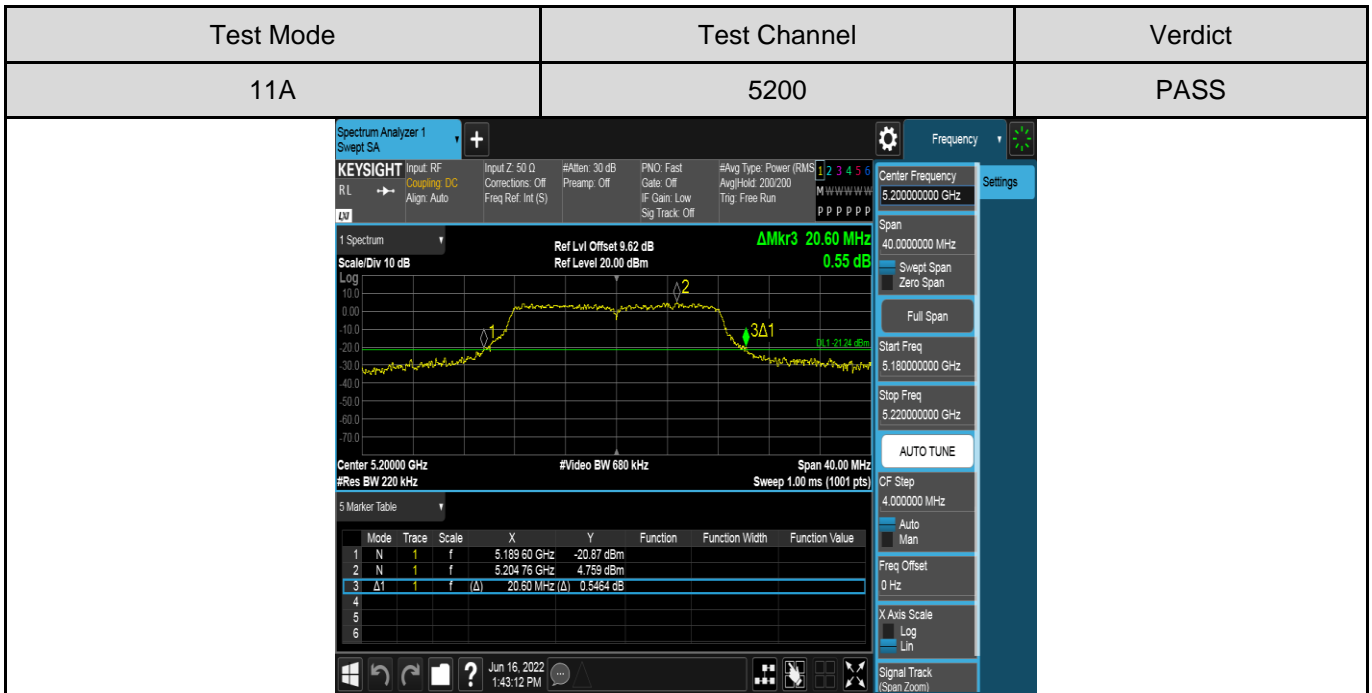
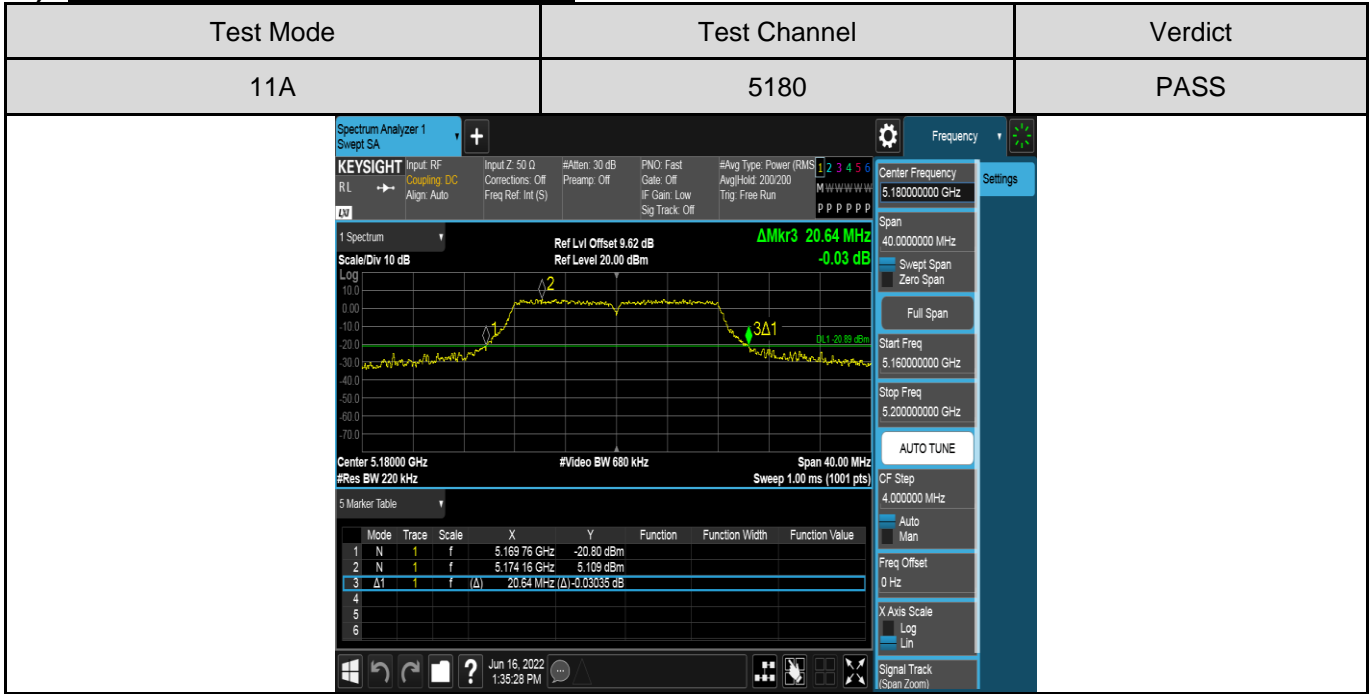
Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.360	5736.800	5753.160	0.5	PASS
		5785	16.280	5776.840	5793.120	0.5	PASS
		5825	16.280	5816.840	5833.120	0.5	PASS
11AC20 MIMO	Ant1	5745	17.040	5736.480	5753.520	0.5	PASS
		5785	17.040	5776.360	5793.400	0.5	PASS
		5825	16.800	5816.600	5833.400	0.5	PASS
11AC40 MIMO	Ant1	5755	35.760	5737.080	5772.840	0.5	PASS
		5795	35.440	5777.400	5812.840	0.5	PASS
11AC80 MIMO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS

Remark: The two antennas had been tested, but only the worst data was recorded in the report.



Test Graphs

1) For 26 dB Emission Bandwidth Part:





Test Mode	Test Channel	Verdict
11A	5240	PASS


Test Mode	Test Channel	Verdict
11A	5260	PASS




Test Mode	Test Channel	Verdict																																
11A	5280	PASS																																
<p>Center Frequency: 5.28000000 GHz Span: 40.0000000 MHz Start Freq: 5.260000000 GHz Stop Freq: 5.300000000 GHz Center Frequency: 5.28000 GHz #Video BW 680 kHz Span 40.00 MHz #Res BW 220 kHz Sweep 1.00 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Trace</th> <th>Scale</th> <th>X</th> <th>Y</th> <th>Function</th> <th>Function Width</th> <th>Function Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>5.269 40 GHz</td> <td>-21.40 dBm</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>5.273 96 GHz</td> <td>4.513 dBm</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Δ</td> <td>1</td> <td>f (Δ)</td> <td>21.00 MHz (Δ)</td> <td>-0.01834 dB</td> <td></td> <td></td> </tr> </tbody> </table>			Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	5.269 40 GHz	-21.40 dBm			2	N	1	f	5.273 96 GHz	4.513 dBm			3	Δ	1	f (Δ)	21.00 MHz (Δ)	-0.01834 dB		
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Test Mode	Test Channel	Verdict																																
11A	5320	PASS																																
<p>Center Frequency: 5.32000000 GHz Span: 40.0000000 MHz Start Freq: 5.300000000 GHz Stop Freq: 5.340000000 GHz Center Frequency: 5.32000 GHz #Video BW 680 kHz Span 40.00 MHz #Res BW 220 kHz Sweep 1.00 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Trace</th> <th>Scale</th> <th>X</th> <th>Y</th> <th>Function</th> <th>Function Width</th> <th>Function Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>5.309 48 GHz</td> <td>-22.18 dBm</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>5.315 00 GHz</td> <td>3.815 dBm</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Δ</td> <td>1</td> <td>f (Δ)</td> <td>20.84 MHz (Δ)</td> <td>0.4443 dB</td> <td></td> <td></td> </tr> </tbody> </table>			Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	5.309 48 GHz	-22.18 dBm			2	N	1	f	5.315 00 GHz	3.815 dBm			3	Δ	1	f (Δ)	20.84 MHz (Δ)	0.4443 dB		
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3	Δ	1	f (Δ)	20.84 MHz (Δ)	0.4443 dB																													



Test Mode	Test Channel	Verdict																																
11A	5500	PASS																																
 <p>Center Frequency: 5.50000000 GHz Span: 40.000000 MHz Start Freq: 5.48000000 GHz Stop Freq: 5.52000000 GHz Center Frequency: 5.500000 GHz #Video BW 680 kHz Span 40.00 MHz #Res BW 220 kHz Sweep 1.00 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Trace</th> <th>Scale</th> <th>X</th> <th>Y</th> <th>Function</th> <th>Function Width</th> <th>Function Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>5.488 44 GHz</td> <td>-18.91 dBm</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>5.506 24 GHz</td> <td>6.090 dBm</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Δ1</td> <td>1</td> <td>f (Δ)</td> <td>23.76 MHz (Δ)</td> <td>-0.7989 dB</td> <td></td> <td></td> </tr> </tbody> </table>			Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	5.488 44 GHz	-18.91 dBm			2	N	1	f	5.506 24 GHz	6.090 dBm			3	Δ1	1	f (Δ)	23.76 MHz (Δ)	-0.7989 dB		
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3	Δ1	1	f (Δ)	23.76 MHz (Δ)	-0.7989 dB																													

Test Mode	Test Channel	Verdict																																
11A	5580	PASS																																
 <p>Center Frequency: 5.58000000 GHz Span: 40.000000 MHz Start Freq: 5.56000000 GHz Stop Freq: 5.60000000 GHz Center Frequency: 5.580000 GHz #Video BW 680 kHz Span 40.00 MHz #Res BW 220 kHz Sweep 1.00 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Trace</th> <th>Scale</th> <th>X</th> <th>Y</th> <th>Function</th> <th>Function Width</th> <th>Function Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>5.568 84 GHz</td> <td>-19.19 dBm</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>5.573 76 GHz</td> <td>5.985 dBm</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Δ1</td> <td>1</td> <td>f (Δ)</td> <td>21.80 MHz (Δ)</td> <td>-0.3292 dB</td> <td></td> <td></td> </tr> </tbody> </table>			Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	5.568 84 GHz	-19.19 dBm			2	N	1	f	5.573 76 GHz	5.985 dBm			3	Δ1	1	f (Δ)	21.80 MHz (Δ)	-0.3292 dB		
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Test Mode	Test Channel	Verdict																																																								
11A	5700	PASS																																																								
<p>Spectrum Analyzer 1 Swept SA</p> <p>KEYSIGHT Input: RF Input Z: 50 Ω #Atten: 30 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6 RL → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200 M W W W W W W Align: Auto Freq Ref: Int (S) IF Gain: Low Trig: Free Run P P P P P P P P</p> <p>1 Spectrum Ref Lvl Offset 10.03 dB ΔMkr3 21.16 MHz Scale/Div 10 dB Ref Level 20.00 dBm 0.65 dB</p> <p>Center 5.70000 GHz #Video BW 680 kHz Span 40.00 MHz #Res BW 220 kHz Sweep 1.00 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Trace</th> <th>Scale</th> <th>X</th> <th>Y</th> <th>Function</th> <th>Function Width</th> <th>Function Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>5.68916 GHz</td> <td>-20.92 dBm</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>5.70588 GHz</td> <td>5.077 dBm</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Δ1</td> <td>1</td> <td>f (Δ)</td> <td>21.16 MHz (Δ)</td> <td>0.6532 dB</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	5.68916 GHz	-20.92 dBm			2	N	1	f	5.70588 GHz	5.077 dBm			3	Δ1	1	f (Δ)	21.16 MHz (Δ)	0.6532 dB			4								5								6							
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Test Mode	Test Channel	Verdict																																																								
11A	5720	PASS																																																								
<p>Spectrum Analyzer 1 Swept SA</p> <p>KEYSIGHT Input: RF Input Z: 50 Ω #Atten: 30 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6 RL → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200 M W W W W W W Align: Auto Freq Ref: Int (S) IF Gain: Low Trig: Free Run P P P P P P P P</p> <p>1 Spectrum Ref Lvl Offset 8.77 dB ΔMkr3 20.72 MHz Scale/Div 10 dB Ref Level 20.00 dBm 0.04 dB</p> <p>Center 5.72000 GHz #Video BW 680 kHz Span 40.00 MHz #Res BW 220 kHz Sweep 1.00 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Trace</th> <th>Scale</th> <th>X</th> <th>Y</th> <th>Function</th> <th>Function Width</th> <th>Function Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>5.70944 GHz</td> <td>-20.96 dBm</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>5.71500 GHz</td> <td>4.448 dBm</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Δ1</td> <td>1</td> <td>f (Δ)</td> <td>20.72 MHz (Δ)</td> <td>0.03890 dB</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	5.70944 GHz	-20.96 dBm			2	N	1	f	5.71500 GHz	4.448 dBm			3	Δ1	1	f (Δ)	20.72 MHz (Δ)	0.03890 dB			4								5								6							
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Test Mode	Test Channel	Verdict																																																								
11A	5745	PASS																																																								
<p>Spectrum Analyzer 1 Swept SA</p> <p>KEYSIGHT Input: RF Input Z: 50 Ω #Atten: 30 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6 RL → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200 M W W W W W W W Align: Auto Freq Ref: Int (S) IF Gain: Low Trig: Free Run P P P P P P P P</p> <p>1 Spectrum Ref Lvl Offset 9.77 dB ΔMkr3 20.56 MHz Scale/Div 10 dB Ref Level 20.00 dBm 0.24 dB</p> <p>Center 5.74500 GHz #Video BW 680 kHz Span 40.00 MHz #Res BW 220 kHz Sweep 1.00 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Trace</th> <th>Scale</th> <th>X</th> <th>Y</th> <th>Function</th> <th>Function Width</th> <th>Function Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>5.734 56 GHz</td> <td>-20.07 dBm</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>5.747 76 GHz</td> <td>4.121 dBm</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Δ1</td> <td>1</td> <td>f (Δ)</td> <td>20.56 MHz (Δ)</td> <td>0.2354 dB</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	5.734 56 GHz	-20.07 dBm			2	N	1	f	5.747 76 GHz	4.121 dBm			3	Δ1	1	f (Δ)	20.56 MHz (Δ)	0.2354 dB			4								5								6							
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Test Mode	Test Channel	Verdict																																																								
11A	5785	PASS																																																								
<p>Spectrum Analyzer 1 Swept SA</p> <p>KEYSIGHT Input: RF Input Z: 50 Ω #Atten: 30 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6 RL → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200 M W W W W W W W Align: Auto Freq Ref: Int (S) IF Gain: Low Trig: Free Run P P P P P P P P</p> <p>1 Spectrum Ref Lvl Offset 9.77 dB ΔMkr3 20.72 MHz Scale/Div 10 dB Ref Level 20.00 dBm 0.16 dB</p> <p>Center 5.78500 GHz #Video BW 680 kHz Span 40.00 MHz #Res BW 220 kHz Sweep 1.00 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Trace</th> <th>Scale</th> <th>X</th> <th>Y</th> <th>Function</th> <th>Function Width</th> <th>Function Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>5.774 60 GHz</td> <td>-21.09 dBm</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>5.791 24 GHz</td> <td>4.638 dBm</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Δ1</td> <td>1</td> <td>f (Δ)</td> <td>20.72 MHz (Δ)</td> <td>0.1619 dB</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	5.774 60 GHz	-21.09 dBm			2	N	1	f	5.791 24 GHz	4.638 dBm			3	Δ1	1	f (Δ)	20.72 MHz (Δ)	0.1619 dB			4								5								6							
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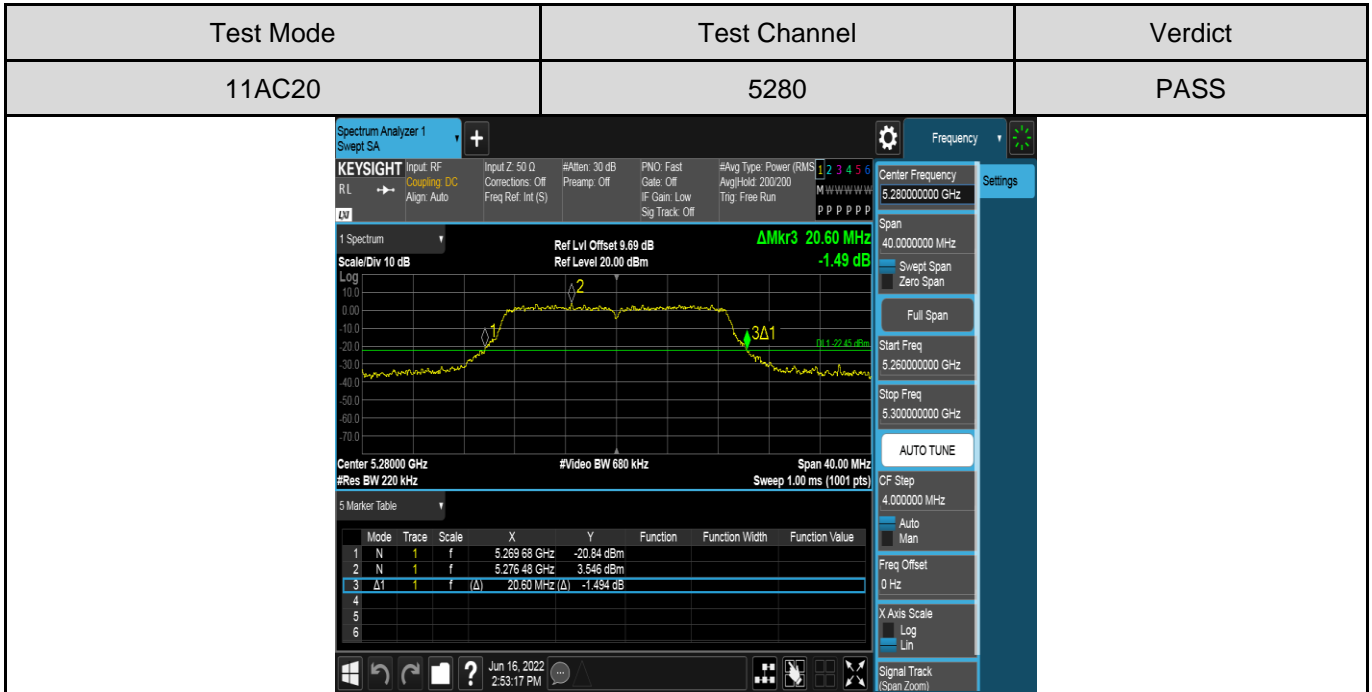
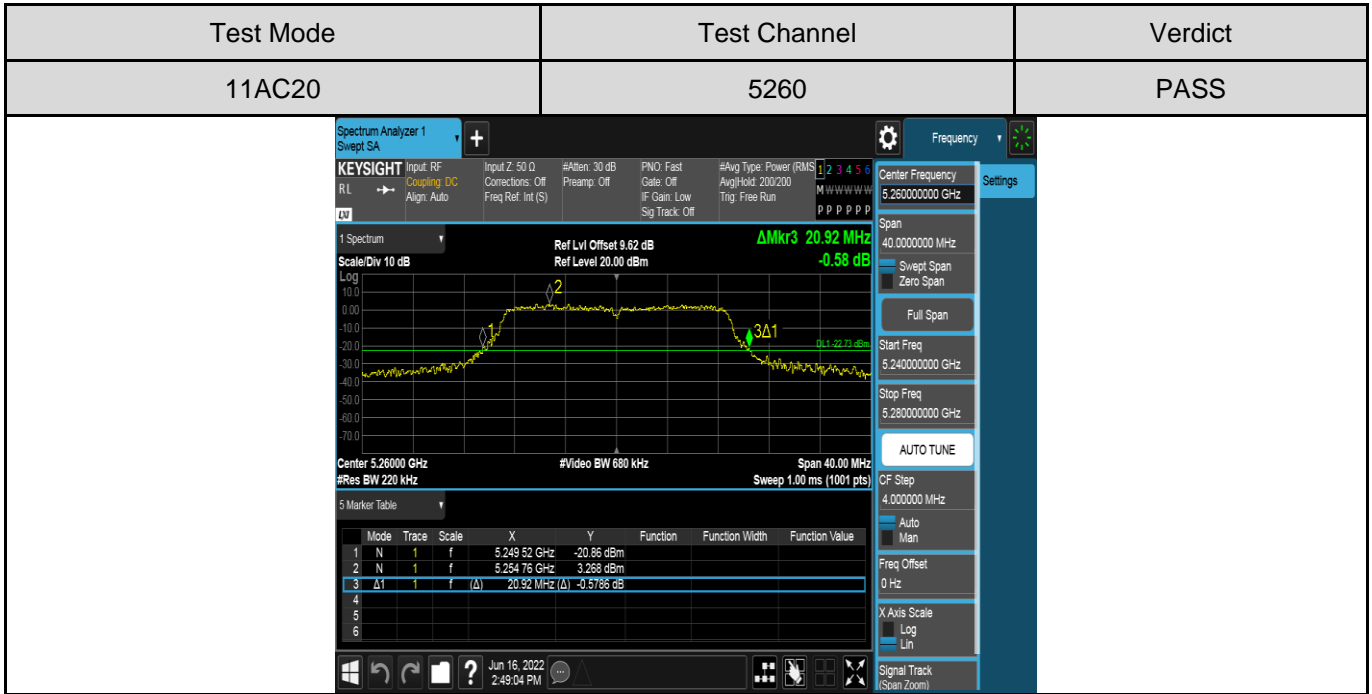
Test Mode	Test Channel	Verdict																																																								
11A	5825	PASS																																																								
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Test Mode	Test Channel	Verdict																																																								
11AC20	5180	PASS																																																								
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Test Mode	Test Channel	Verdict
11AC20	5200	PASS

Test Mode	Test Channel	Verdict
11AC20	5240	PASS





Test Mode	Test Channel	Verdict																																																								
11AC20	5320	PASS																																																								
<p>Spectrum Analyzer 1 Swept SA</p> <p>KEYSIGHT Input: RF Input Z: 50 Ω #Atten: 30 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6 RL → Coupling: DC Corrections: Off Preamp: Off Gate: Off Avg/Hold: 200/200 M W W W W W W W Align: Auto Freq Ref: Int (S) IF Gain: Low Trig: Free Run P P P P P P P P</p> <p>1 Spectrum Ref Lvl Offset 9.69 dB ΔMkr3 21.00 MHz Scale/Div 10 dB Ref Level 20.00 dBm 0.41 dB</p> <p>Center 5.3200 GHz #Video BW 680 kHz Span 40.00 MHz #Res BW 220 kHz Sweep 1.00 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Trace</th> <th>Scale</th> <th>X</th> <th>Y</th> <th>Function</th> <th>Function Width</th> <th>Function Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>5.309 56 GHz</td> <td>-22.73 dBm</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>5.315 00 GHz</td> <td>3.044 dBm</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Δ1</td> <td>1</td> <td>f (Δ)</td> <td>21.00 MHz (Δ)</td> <td>0.4051 dB</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	1	N	1	f	5.309 56 GHz	-22.73 dBm			2	N	1	f	5.315 00 GHz	3.044 dBm			3	Δ1	1	f (Δ)	21.00 MHz (Δ)	0.4051 dB			4								5								6							
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Test Mode	Test Channel	Verdict																																																								
11AC20	5500	PASS																																																								
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Test Mode	Test Channel	Verdict
11AC20	5580	PASS

Test Mode	Test Channel	Verdict
11AC20	5700	PASS



Test Mode	Test Channel	Verdict																																																								
11AC20	5720	PASS																																																								
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Test Mode	Test Channel	Verdict																																																								
11AC20	5745	PASS																																																								
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Test Mode	Test Channel	Verdict
11AC20	5785	PASS

Test Mode	Test Channel	Verdict
11AC20	5825	PASS



Test Mode	Test Channel	Verdict																																																								
11AC40	5190	PASS																																																								
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Test Mode	Test Channel	Verdict																																																								
11AC40	5230	PASS																																																								
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Test Mode	Test Channel	Verdict																																																								
11AC40	5270	PASS																																																								
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Test Mode	Test Channel	Verdict																																																								
11AC40	5310	PASS																																																								
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Test Mode	Test Channel	Verdict
11AC40	5510	PASS

Test Mode	Test Channel	Verdict
11AC40	5550	PASS



Test Mode	Test Channel	Verdict
11AC40	5670	PASS

Test Mode	Test Channel	Verdict
11AC40	5710	PASS



Test Mode	Test Channel	Verdict
11AC40	5755	PASS

Test Mode	Test Channel	Verdict
11AC40	5795	PASS