



FCC TEST REPORT

**Test report
On Behalf of
Curvalux UK Ltd
For
Access Point and CPE
Model No.: 900-00021, 900-00025
FCC ID: 2A8EB-900-00021**

Prepared For : Curvalux UK Ltd
Electric Works Sheffield, S1 2BJ United Kingdom

Prepared By : Shenzhen HUAKE Testing Technology Co., Ltd.
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Date of Test: Oct. 09, 2022 ~ Dec. 07, 2022

Date of Report: Dec. 07, 2022

Report Number: HK2210094428-3E



TEST RESULT CERTIFICATION

Applicant's name : Curvalux UK Ltd

Address..... : Electric Works Sheffield, S1 2BJ United Kingdom

Manufacture's Name : Curvalux UK Ltd

Address..... : Electric Works Sheffield, S1 2BJ United Kingdom

Product description

Trade Mark: N/A

Product name : Access Point and CPE

Model and/or type reference : 900-00021, 900-00025

Standards..... : FCC Rules and Regulations Part 15 Subpart E Section 15.407
ANSI C63.10: 2013

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Date of Test :

Date (s) of performance of tests..... : Oct. 09, 2022 ~ Dec. 07, 2022

Date of Issue : Dec. 07, 2022

Test Result..... : Pass

Testing Engineer :

(Gary Qian)

Technical Manager :

(Eden Hu)

Authorized Signatory :

(Jason Zhou)



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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Dec. 07, 2022	Jason Zhou



1. TEST RESULT SUMMARY

1.1. TEST PROCEDURES AND RESULTS

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a)	PASS
6dB Emission Bandwidth	§15.407(e)	PASS
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a)	N/A
Power Spectral Density	§15.407(a)	PASS
Band edge	§15.407(b)/15.209/15.205	PASS
Radiated Emission	§15.407(b)/15.209/15.205	PASS
Frequency Stability	§15.407(g)	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

1.2. INFORMATION OF THE TEST LABORATORY

Shenzhen HUAKE Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.



1.3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 0.37\text{dB}$
2	RF power, conducted	$\pm 3.35\text{dB}$
3	Spurious emissions, conducted	$\pm 2.20\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.90\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^{\circ}\text{C}$
7	Humidity	$\pm 1.0\%$



2. EUT DESCRIPTION

2.1. GENERAL DESCRIPTION OF EUT

Equipment:	Access Point and CPE
Model Name:	900-00021
Serial Model:	900-00025
Model Difference:	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample mode: 900-00021.
Trade Mark:	N/A
FCC ID:	2A8EB-900-00021
Operation Frequency:	IEEE 802.11a/n/ac/ax(HT20)5.745GHz-5.825GHz IEEE 802.11n/ac/ax(HT40)5.755GHz-5.795GHz IEEE 802.11ac/ax(HT80) 5.775GHz
Modulation Technology:	IEEE 802.11a/n/ac/ax
Modulation Type:	OFDM, OFDMA
Antenna Type:	External antenna
Antenna Gain:	Antenna 1:23dBi Antenna 2:23dBi MIMO: 26.01dBi
Power Source:	DC 48V From POE
Power Supply:	DC 48V From POE
Hardware Version:	V3.0
Software Version:	V3.0
Note: The EUT incorporates a MIMO function. Physically, it provides two completed transmitters and receivers(2T2R), two transmit signals are completely correlated, then, Direction gain= GANT + Array Gain(Array Gain=10 log(2) dB for power spectral density; Array Gain=0 for power measurement)	



2.2. OPERATION FREQUENCY EACH OF CHANNEL

802.11a/802.11n(HT20) 802.11ac(HT20) 802.11ax(HT20)		802.11n(HT40) 802.11ac(HT40) 802.11ax(HT40)		802.11ac(HT80) 802.11ax(HT80)	
Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

2.3. OPERATION OF EUT DURING TESTING

Band IV (5725 - 5850 MHz)		
For 802.11a/n (HT20)/ac(HT20)/axHT20)		
Channel Number	Channel	Frequency (MHz)
149	Low	5745
157	Mid	5785
165	High	5825

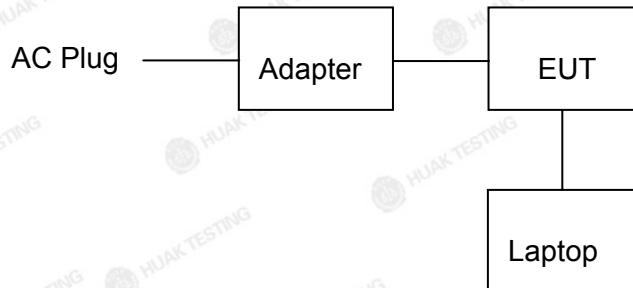
For 802.11n (HT40)/ ac(HT40)/axHT40)		
Channel Number	Channel	Frequency (MHz)
151	Low	5755
159	High	5795

For 802.11ac(HT80)/ax(HT80)		
Channel Number	Channel	Frequency (MHz)
155	/	5775

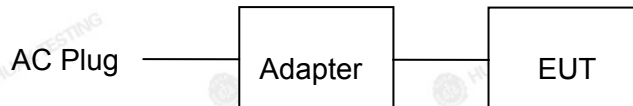


2.4. DESCRIPTION OF TEST SETUP

Operation of EUT during conducted testing and below 1GHz Radiation testing:



Operation of EUT during Above 1GHz Radiation testing:



Laptop information

Model: TP00018A

Input: DC 20V, 3.25~4.5A

Adapter information

Model: GRT-POE15-480050

Input: AC100-240V 0.8A Max 50/60Hz

Output: DC48V 500mA

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position



3. GENERA INFORMATION

3.1. TEST ENVIRONMENT AND MODE

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 100%)
<p>The sample was placed 0.8m/1.5m for blow/above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p>	

<p>We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:</p>	
Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.	
Mode	Data rate
802.11a	6 Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0
802.11ac(HT20)/ac(HT40)/ac(HT80)	MCS0
802.11ax(HT20)/ax(HT40)/ax(HT80)	MCS0
Final Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation



3.2. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



4. TEST RESULTS AND MEASUREMENT DATA

4.1. CONDUCTED EMISSION

4.1.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	<div><p>Reference Plane</p><p>40cm 80cm</p><p>E.U.T AC power</p><p>Test table/Insulation plane</p><p>LISN</p><p>Filter AC power</p><p>EMI Receiver</p><p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div>														
Test Mode:	Tx Mode														
Test Procedure:	<ol style="list-style-type: none">1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.														
Test Result:	Pass														



4.1.2. Test Instruments

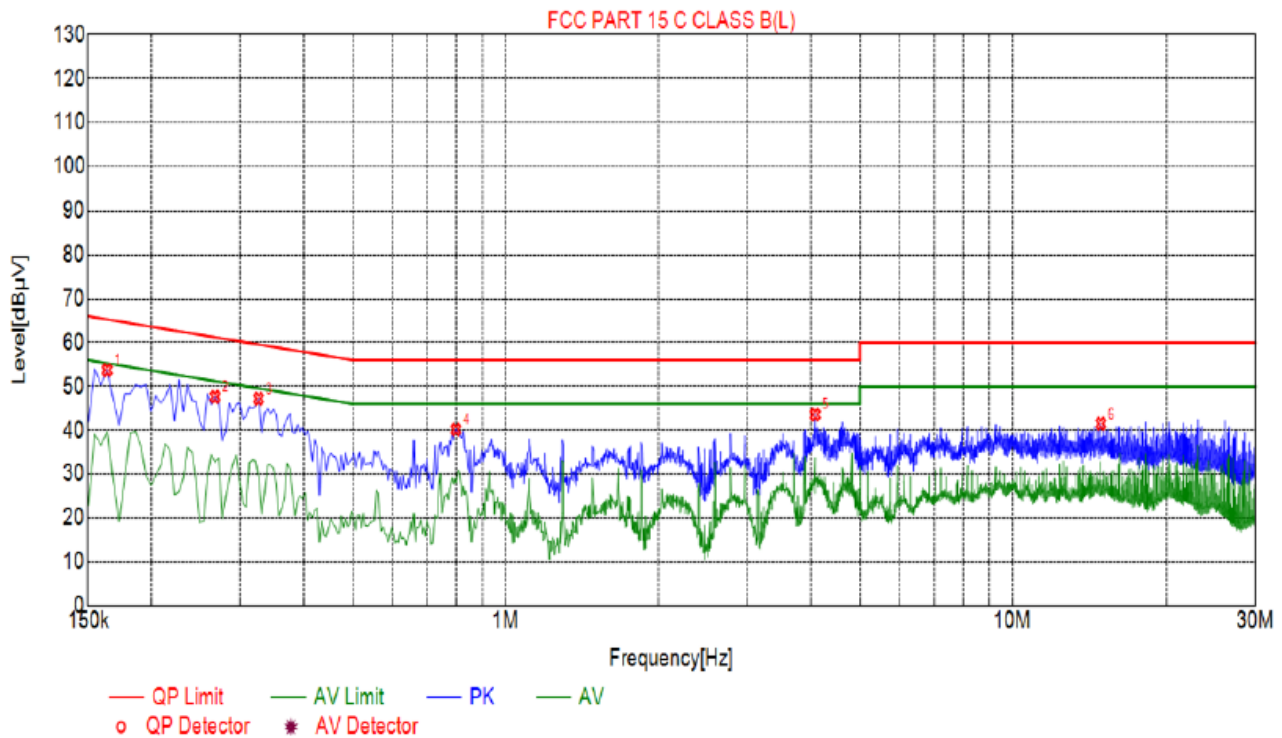
Conducted Emission Shielding Room Test Site (843)					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESR-7	HKE-010	Feb. 18, 2022	Feb. 17, 2023
LISN	R&S	ENV216	HKE-002	Feb. 18, 2022	Feb. 17, 2023
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 18, 2022	Feb. 17, 2023
Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



4.1.3. Test data

Test Specification: Line



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1635	53.74	19.98	65.28	11.54	33.76	PK	L
2	0.2670	47.64	20.03	61.21	13.57	27.61	PK	L
3	0.3255	47.20	20.05	59.57	12.37	27.15	PK	L
4	0.7980	40.18	20.06	56.00	15.82	20.12	PK	L
5	4.0830	43.59	20.25	56.00	12.41	23.34	PK	L
6	14.8515	41.51	19.95	60.00	18.49	21.56	PK	L

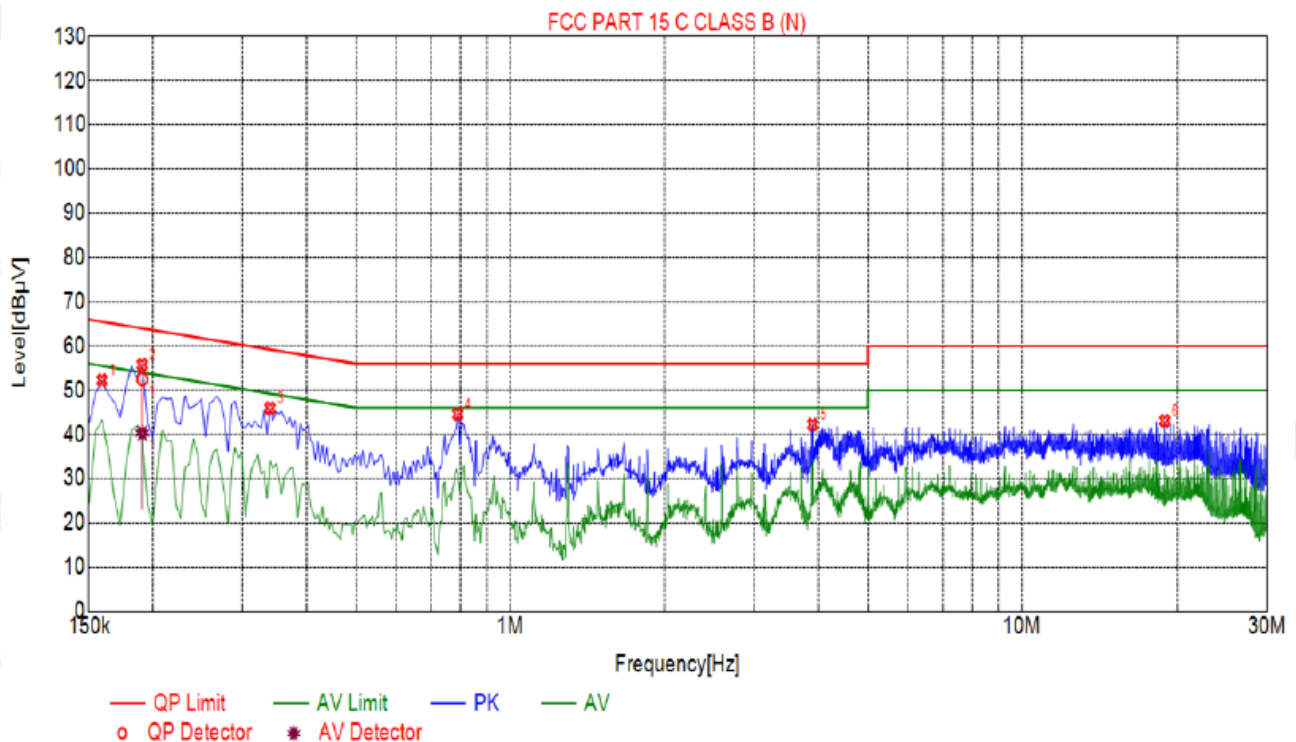
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1590	52.24	20.01	65.52	13.28	32.23	PK	N
2	0.1905	55.78	20.04	64.01	8.23	35.74	PK	N
3	0.3390	45.92	20.03	59.23	13.31	25.89	PK	N
4	0.7890	44.58	20.05	56.00	11.42	24.53	PK	N
5	3.8985	42.22	20.25	56.00	13.78	21.97	PK	N
6	18.9150	43.06	20.06	60.00	16.94	23.00	PK	N

Final Data List

NO.	Freq. [MHz]	Correction factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	QP Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	AV Reading [dBμV]	Type
1	0.1905	20.04	52.49	64.01	11.52	32.45	40.28	54.01	13.73	20.24	N

Remark: Margin = Limit – Level


Correction factor = Cable lose + LISN insertion loss

Level = Test receiver reading + correction factor



4.2. MAXIMUM CONDUCTED OUTPUT POWER

4.2.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407(a)	
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02.r01 Section E	
Limit:	Frequency Band (MHz)	Limit
	5725-5850	1 W (point-to-point device)
Test Setup:	 <p style="text-align: center;">Power meter EUT</p>	
Test Mode:	Transmitting mode with modulation	
Test Procedure:	<ol style="list-style-type: none">1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a.2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.3. Set to the maximum power setting and enable the EUT transmit continuously.4. Measure the conducted output power and record the results in the test report.	
Test Result:	PASS	
Remark:	Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power	



4.2.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023
Power meter	Agilent	E4419B	HKE-085	Feb. 18, 2022	Feb. 17, 2023
Power Sensor	Agilent	E9300A	HKE-086	Feb. 18, 2022	Feb. 17, 2023
RF cable	Times	1-40G	HKE-034	Feb. 18, 2022	Feb. 17, 2023
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



Test Data

Configuration Band IV (5725 - 5850 MHz)					
Mode	Test channel	Maximum Conducted Output Power (dBm)		FCC Limit (dBm)	Result
		Antenna port 1	Antenna port 2		
11a	CH149	8.41	9.87	30	PASS
11a	CH157	9.23	7.65	30	PASS
11a	CH165	9.36	6.33	30	PASS
11n(HT20)	CH149	8.67	9.37	30	PASS
11n(HT20)	CH157	9.01	8.75	30	PASS
11n(HT20)	CH165	6.85	8.57	30	PASS
11n(HT40)	CH151	7.99	5.93	30	PASS
11n(HT40)	CH159	6.24	8.01	30	PASS
11ac(HT20)	CH149	8.64	9.34	30	PASS
11ac(HT20)	CH157	8.01	8.03	30	PASS
11ac(HT20)	CH165	8.08	5.45	30	PASS
11ac(HT40)	CH151	7.67	7.65	30	PASS
11ac(HT40)	CH159	5.12	6.09	30	PASS
11ac(HT80)	CH155	7.07	7.49	30	PASS
11ax(HT20)	CH149	9.18	4.57	30	PASS
11ax(HT20)	CH157	7.12	6.72	30	PASS
11ax(HT20)	CH165	6.67	5.11	30	PASS
11ax(HT40)	CH151	6.54	7.25	30	PASS
11ax(HT40)	CH159	9.12	7.83	30	PASS
11ax(HT80)	CH155	7.68	7.31	30	PASS

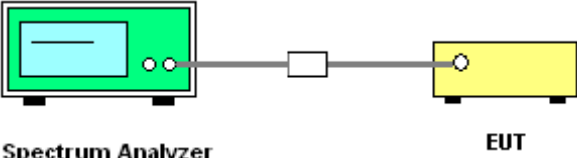


Configuration Band IV (5725 - 5850 MHz)				
Mode	Test channel	Maximum Conducted Output Power (dBm)	FCC Limit (dBm)	Result
		MIMO		
11n(HT20)	CH149	12.04	30	PASS
11n(HT20)	CH157	11.89	30	PASS
11n(HT20)	CH165	10.80	30	PASS
11n(HT40)	CH151	10.09	30	PASS
11n(HT40)	CH159	10.22	30	PASS
11ac(HT20)	CH149	12.01	30	PASS
11ac(HT20)	CH157	11.03	30	PASS
11ac(HT20)	CH165	9.97	30	PASS
11ac(HT40)	CH151	10.67	30	PASS
11ac(HT40)	CH159	8.64	30	PASS
11ac(HT80)	CH155	10.30	30	PASS
11ax(HT20)	CH157	10.47	30	PASS
11ax(HT20)	CH165	9.93	30	PASS
11ax(HT20)	CH165	8.97	30	PASS
11ax(HT40)	CH151	9.92	30	PASS
11ax(HT40)	CH159	11.53	30	PASS
11ax(HT80)	CH155	10.51	30	PASS



4.3. 6DB EMISSION BANDWIDTH

4.3.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v01r04 Section C
Limit:	>500kHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none">1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C.2. Set to the maximum power setting and enable the EUT transmit continuously.3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.4. Measure and record the results in the test report.
Test Result:	PASS

4.3.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023
RF cable	Times	1-40G	HKE-034	Feb. 18, 2022	Feb. 17, 2023
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



4.3.3. Test data

ANT 1

Band IV (5725 - 5850 MHz)					
Mode	Test channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
11a	CH149	5745	15.08	0.5	PASS
11a	CH157	5785	15.12	0.5	PASS
11a	CH165	5825	15.12	0.5	PASS
11n(HT20)	CH149	5745	13.52	0.5	PASS
11n(HT20)	CH157	5785	15.08	0.5	PASS
11n(HT20)	CH165	5825	16.12	0.5	PASS
11n(HT40)	CH151	5755	33.76	0.5	PASS
11n(HT40)	CH159	5795	34.40	0.5	PASS
11ac(HT20)	CH149	5745	12.92	0.5	PASS
11ac(HT20)	CH157	5785	15.00	0.5	PASS
11ac(HT20)	CH165	5825	12.52	0.5	PASS
11ac(HT40)	CH151	5755	34.00	0.5	PASS
11ac(HT40)	CH159	5795	35.04	0.5	PASS
11ac(HT80)	CH155	5775	71.36	0.5	PASS
11ax(HT20)	CH149	5745	15.12	0.5	PASS
11ax(HT20)	CH157	5785	13.80	0.5	PASS
11ax(HT20)	CH165	5825	15.00	0.5	PASS
11ax(HT40)	CH151	5755	35.04	0.5	PASS
11ax(HT40)	CH159	5795	34.56	0.5	PASS
11ax(HT80)	CH155	5775	71.36	0.5	PASS

Test plots as follows:



Band IV (5725 – 5850 MHz)

802.11a



Low

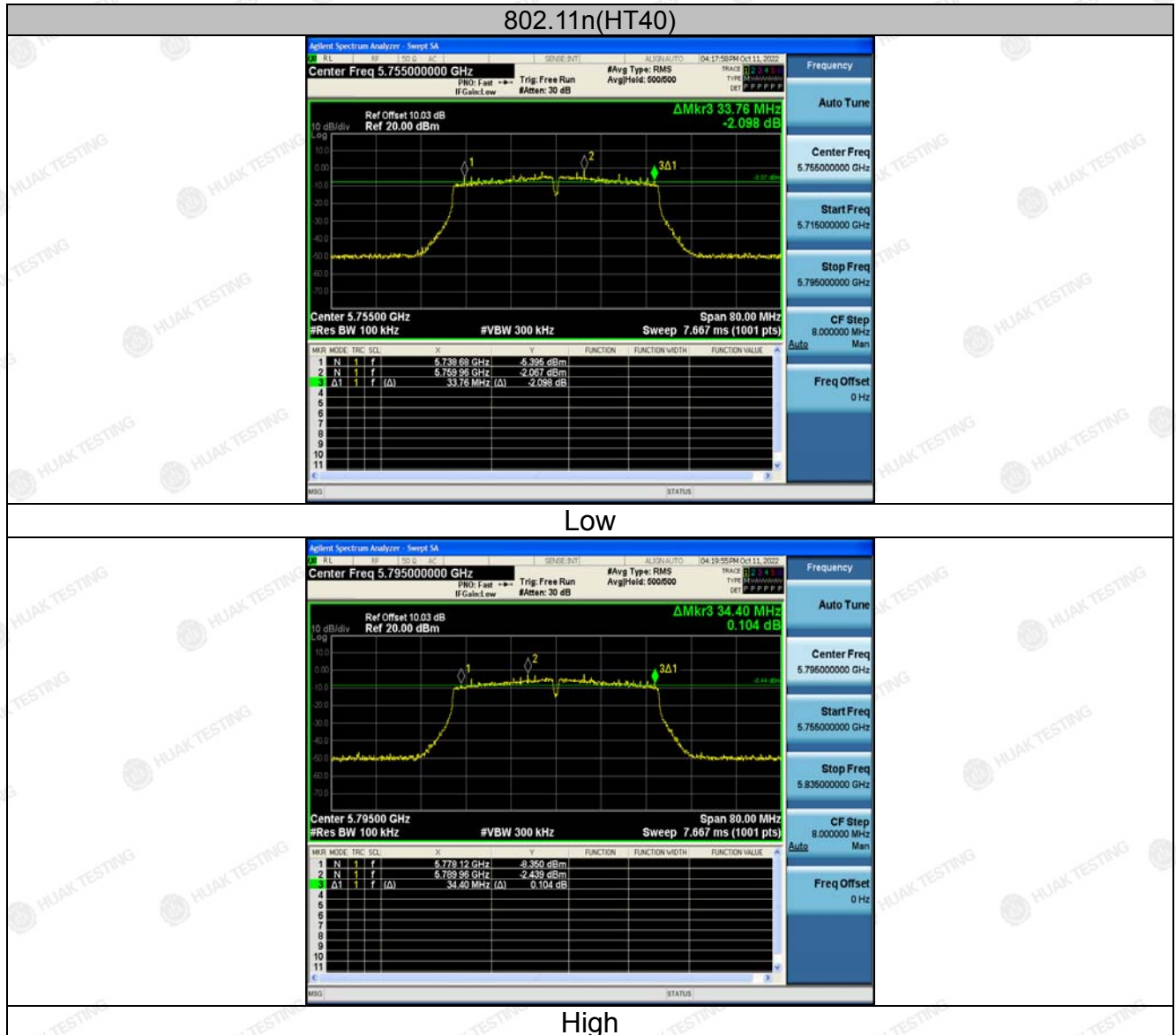


Mid



High







802.11ac(HT20)



Low



Mid



High



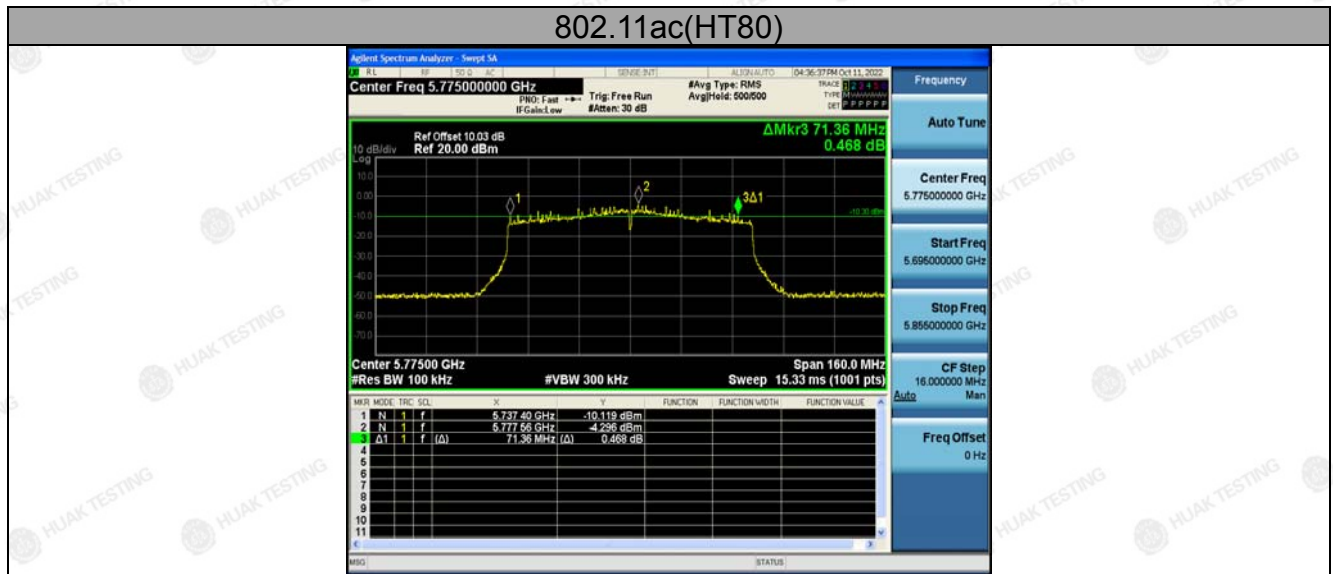
802.11ac(HT40)



Low



High





802.11ax(HT20)



Low



Mid



High



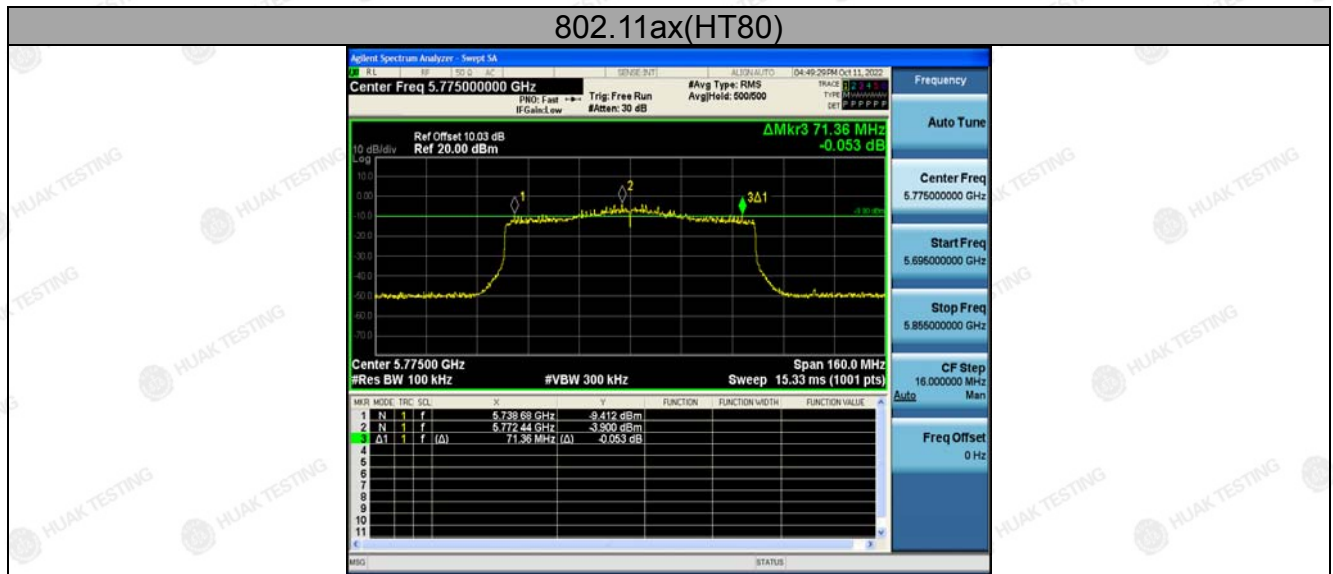
802.11ax(HT40)



Low



High





ANT 2

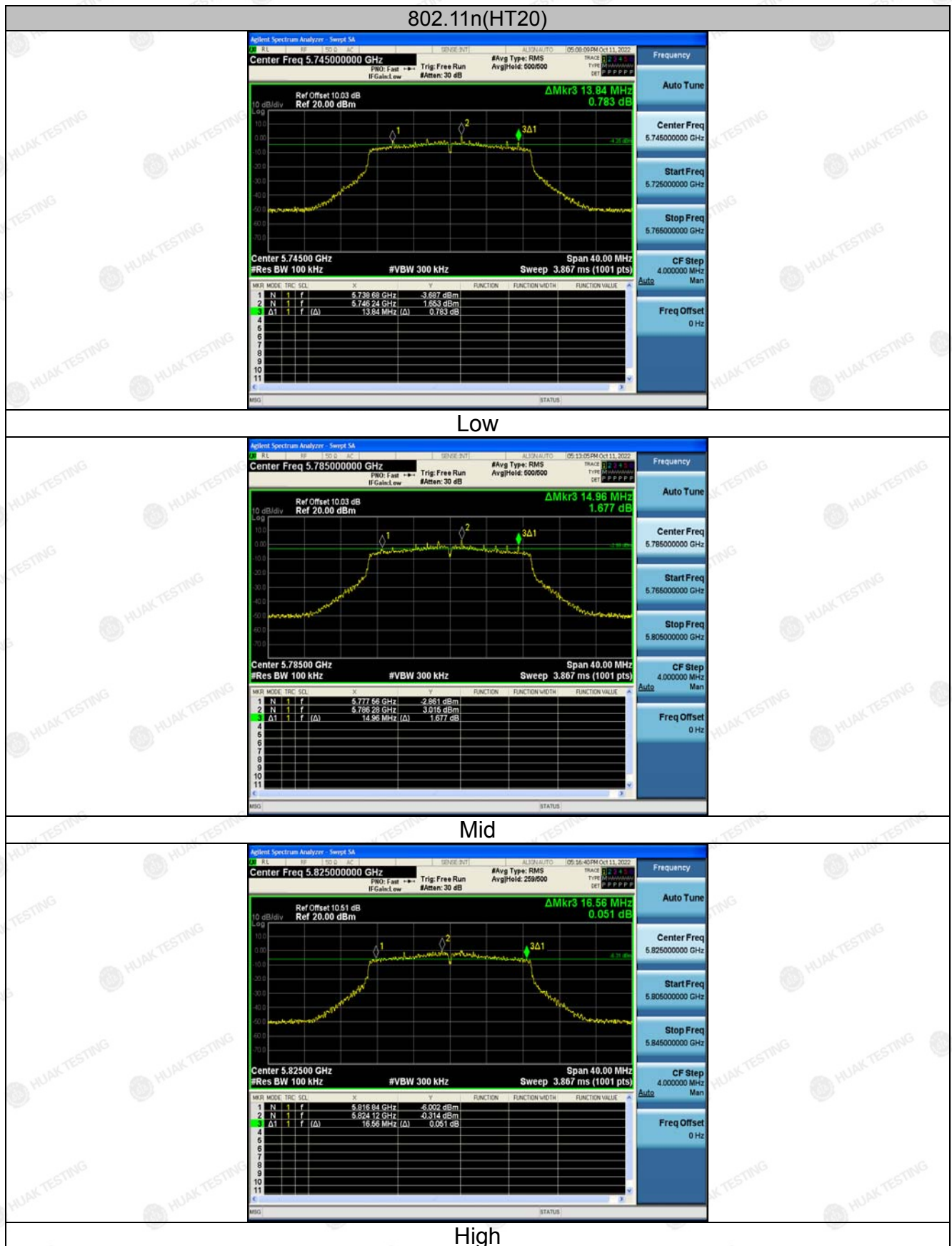
Band IV (5725 - 5850 MHz)					
Mode	Test channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
11a	CH149	5745	15.12	0.5	PASS
11a	CH157	5785	15.08	0.5	PASS
11a	CH161	5825	15.00	0.5	PASS
11n(HT20)	CH149	5745	13.84	0.5	PASS
11n(HT20)	CH157	5785	14.96	0.5	PASS
11n(HT20)	CH161	5825	16.56	0.5	PASS
11n(HT40)	CH151	5755	35.12	0.5	PASS
11n(HT40)	CH159	5795	35.04	0.5	PASS
11ac(HT20)	CH149	5745	15.04	0.5	PASS
11ac(HT20)	CH157	5785	15.12	0.5	PASS
11ac(HT20)	CH165	5825	13.80	0.5	PASS
11ac(HT40)	CH151	5755	33.84	0.5	PASS
11ac(HT40)	CH159	5795	33.44	0.5	PASS
11ac(HT80)	CH155	5775	70.08	0.5	PASS
11ax(HT20)	CH149	5745	15.12	0.5	PASS
11ax(HT20)	CH157	5785	14.32	0.5	PASS
11ax(HT20)	CH165	5825	15.52	0.5	PASS
11ax(HT40)	CH151	5755	35.04	0.5	PASS
11ax(HT40)	CH159	5795	34.96	0.5	PASS
11ax(HT80)	CH155	5775	69.92	0.5	PASS

Test plots as follows:



Band IV (5725 – 5850 MHz)







802.11n(HT40)



Low



High



802.11ac(HT20)



Low



Mid



High



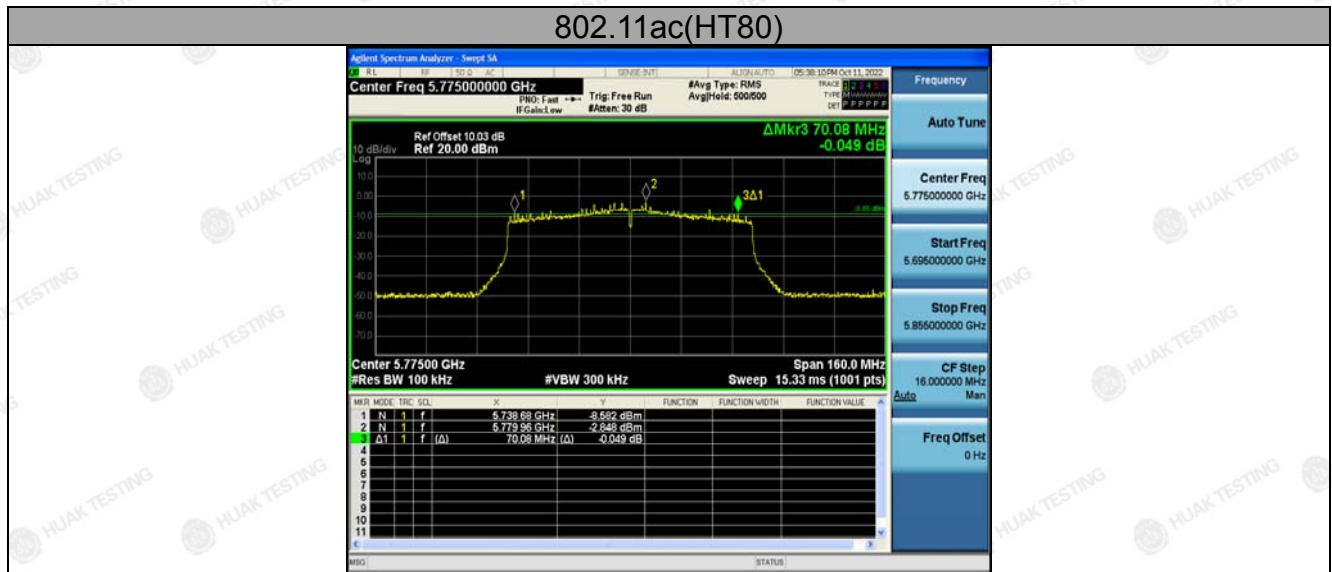
802.11ac(HT40)



Low



High





802.11ax(HT20)



Low



Mid



High



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