

FCC Test Report

Test Report
On Behalf of
Shenzhen meiweisi Technology Co., Ltd.
For
Wireless Repeater
Model No.: RE431F-FA-01, RE1200D, RE300D,
RE300E, RE1200E
FCC ID: 2A8NQ-RE431F-FA-01

Prepared For: **Shenzhen meiweisi Technology Co., Ltd.**
Building A7, Huafa Industrial Park, Fuyuan 1st Road, Zhancheng Community,
Bao'an District, Shenzhen, Guangdong Province, China

Prepared By: **Shenzhen HUAKE Testing Technology Co., Ltd.**
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Date of Test: **Oct. 11, 2025 ~ Dec. 25, 2025**

Date of Report: **Dec. 25, 2025**

Report Number: **HK2510115580-2E**

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Test Result Certification

Applicant's Name: Shenzhen meiweisi Technology Co., Ltd.
Building A7, Huafa Industrial Park, Fuyuan 1st Road,
Address: Zhancheng Community, Bao'an District, Shenzhen,
Guangdong Province, China

Manufacturer's Name: Shenzhen meiweisi Technology Co., Ltd.
Building A7, Huafa Industrial Park, Fuyuan 1st Road,
Address: Zhancheng Community, Bao'an District, Shenzhen,
Guangdong Province, China

Product Description

Trade Mark: N/A
Product Name: Wireless Repeater
Model and/or Type Reference : RE431F-FA-01, RE1200D, RE300D, RE300E, RE1200E
Standards: FCC Rules and Regulations Part 15 Subpart E Section 15.407
ANSI C63.10: 2020

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Date of Test:
Date (s) of Performance of Tests: **Oct. 11, 2025 ~ Dec. 25, 2025**
Date of Issue: **Dec. 25, 2025**
Test Result: **Pass**

Testing Engineer

Len Liao

Len Liao

Technical Manager

Sliver Wan

Sliver Wan

Authorized Signatory

Jason Zhou

Jason Zhou



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**** Issued history ****

Revision	Description	Issued Date	Remark
Revision 1.0	Initial Test Report Release	Dec. 25, 2025	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

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	Wireless Repeater
Model Name	RE431F-FA-01
Series Model(s)	RE1200D, RE300D, RE300E, RE1200E
Model Difference	All model's the function, software and electric circuit are the same, only with a product model named different. Test sample model: RE431F-FA-01.
Trade Mark	N/A
FCC ID	2A8NQ-RE431F-FA-01
Operation Frequency	IEEE 802.11a/n/ac(HT20) 5.745GHz-5.825GHz IEEE 802.11n/ac(HT40) 5.755GHz-5.795GHz IEEE 802.11ac(HT80) 5.775GHz
Modulation Technology	IEEE 802.11a/n/ac
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
Antenna Type	External Antenna
Antenna Gain	Antenna 1: 2.51dBi Antenna 2: 2.51dBi MIMO: 5.52dBi
Power Source	AC100-240V, 50/60Hz
Power Supply	AC100-240V, 50/60Hz
Hardware Version	V1
Software Version	V1
Note: 1. 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. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 3. Antenna gain Refer to the antenna specifications. 4. The cable loss data is obtained from the supplier. 5. The test results in the report only apply to the tested sample.	

2.2 Operation Frequency Each of Channel

802.11a/802.11n(HT20) 802.11ac(HT20)		802.11n(HT40)/ 802.11ac(HT40)		802.11ac(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)		
Channel Number	Channel	Frequency (MHz)
149	Low	5745
157	Mid	5785
165	High	5825

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

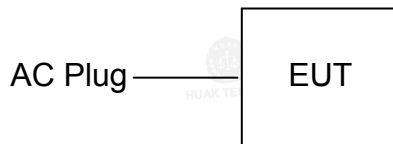
For 802.11ac(HT80)		
Channel Number	Channel	Frequency (MHz)
155	/	5775

2.4 Description of Test Setup

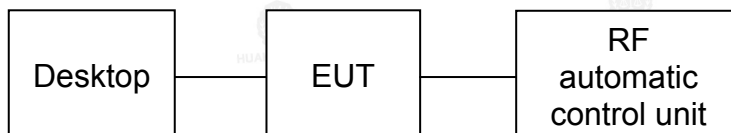
Operation of EUT during Conducted and Radiation below 1GHz testing:



Operation of EUT during Radiation Above 1GHz testing:



Operation of EUT during RF conducted testing:



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.

2.5 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.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Remark
1	Wireless Repeater	N/A	RE431F-FA-01	N/A	EUT
2	Laptop	Lenovo	TP00096A	Input: DC 20V, 2.25~3.25A Output: 5VDC, 0.5A	Peripheral

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, 6dB 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.

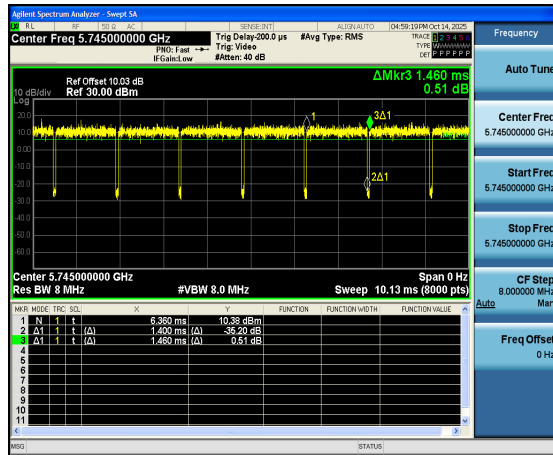
3. General Information

3.1 Test Environment and Mode

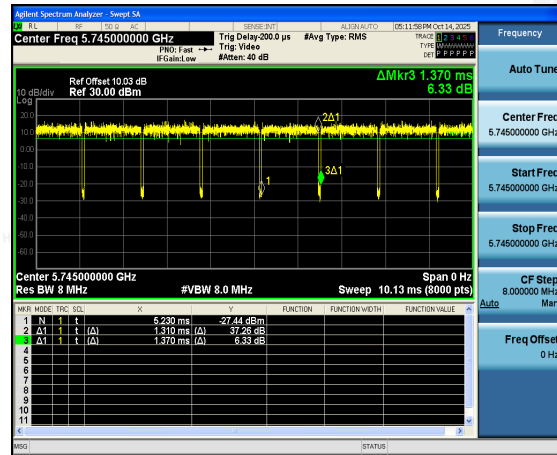
Operating Environment:															
Temperature:	25.0 °C														
Humidity:	56 % RH														
Atmospheric Pressure:	1010 mbar														
Test Mode:															
Engineering Mode:	Keep the EUT in continuous transmitting by select channel and modulations														
We have verified the 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:															
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														
Final Test Mode:															
Operation mode:	Keep the EUT in continuous transmitting with modulation														
Mode Test Duty Cycle ANT.1: <table border="1"> <thead> <tr> <th>Mode</th><th>Duty Cycle</th></tr> </thead> <tbody> <tr> <td>802.11a</td><td>0.9589</td></tr> <tr> <td>802.11n(HT20)</td><td>0.9562</td></tr> <tr> <td>802.11n(HT40)</td><td>0.9155</td></tr> <tr> <td>802.11ac(HT20)</td><td>0.9189</td></tr> <tr> <td>802.11ac(HT40)</td><td>0.8537</td></tr> <tr> <td>802.11ac(HT80)</td><td>0.9549</td></tr> </tbody> </table>		Mode	Duty Cycle	802.11a	0.9589	802.11n(HT20)	0.9562	802.11n(HT40)	0.9155	802.11ac(HT20)	0.9189	802.11ac(HT40)	0.8537	802.11ac(HT80)	0.9549
Mode	Duty Cycle														
802.11a	0.9589														
802.11n(HT20)	0.9562														
802.11n(HT40)	0.9155														
802.11ac(HT20)	0.9189														
802.11ac(HT40)	0.8537														
802.11ac(HT80)	0.9549														

Test plots as follows:

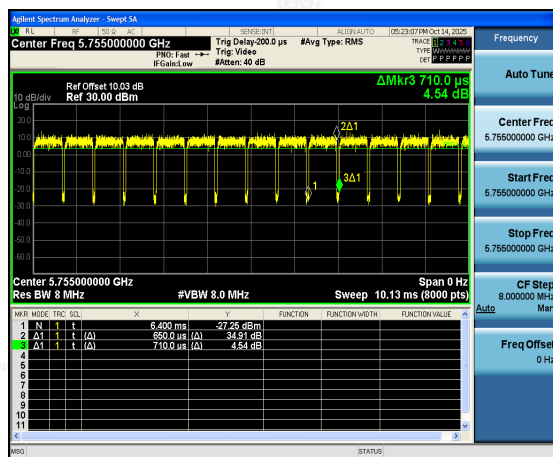
802.11a



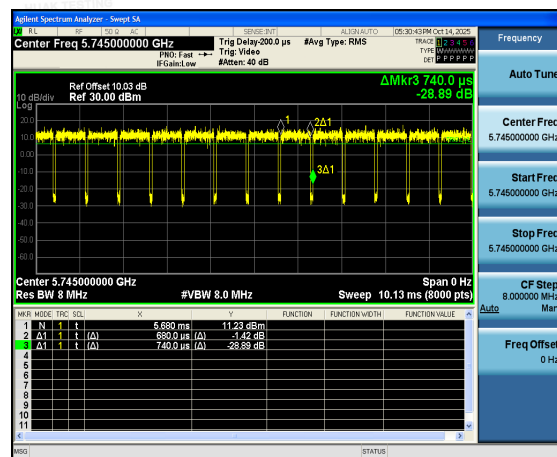
802.11n(HT20)



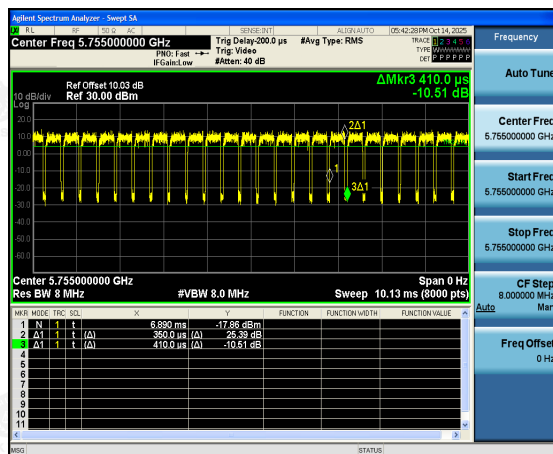
802.11n(HT40)



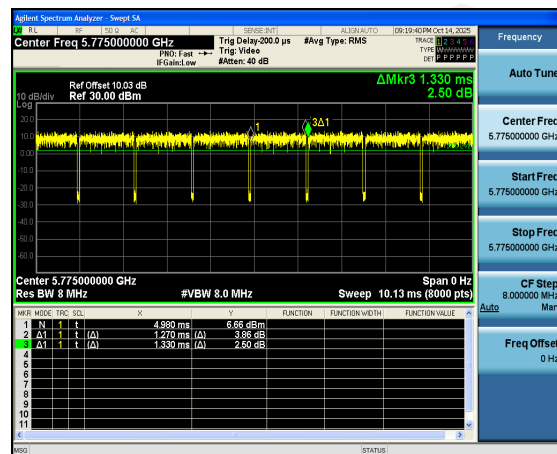
802.11ac(HT20)



802.11ac(HT40)



802.11ac(HT80)



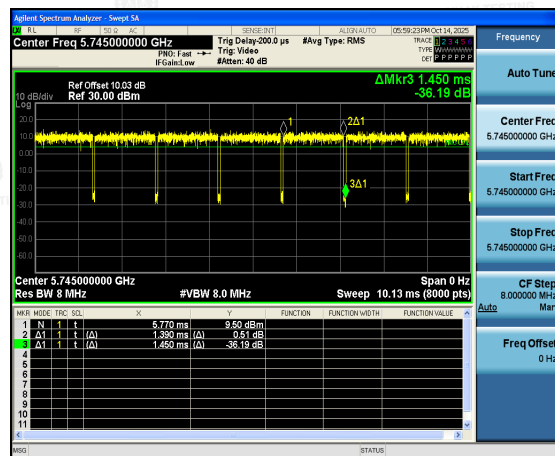
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ANT.2:

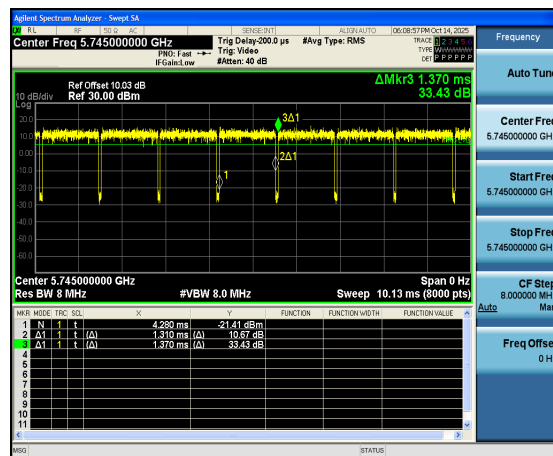
Mode	Duty Cycle
802.11a	0.9586
802.11n(HT20)	0.9562
802.11n(HT40)	0.9155
802.11ac(HT20)	0.9189
802.11ac(HT40)	0.8537
802.11ac(HT80)	0.9549

Test plots as follows:

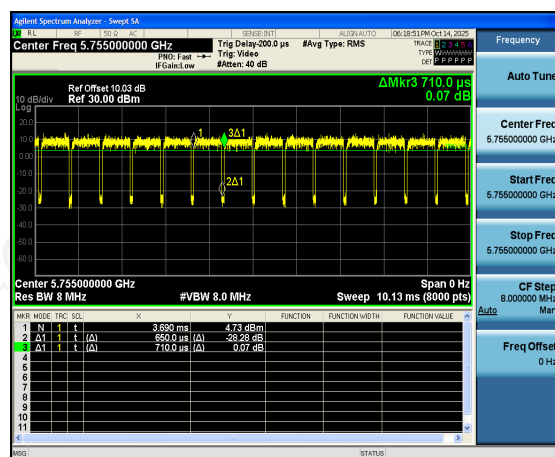
802.11a



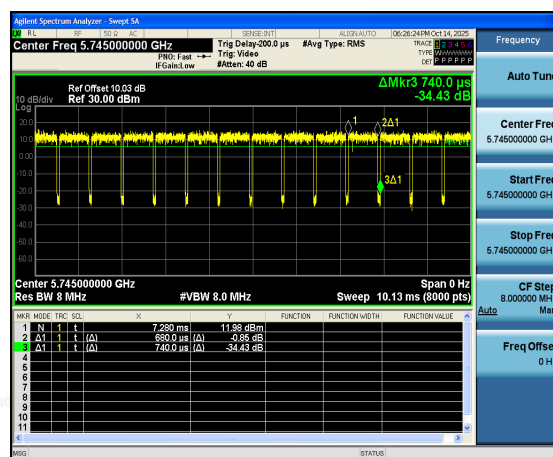
802.11n(HT20)



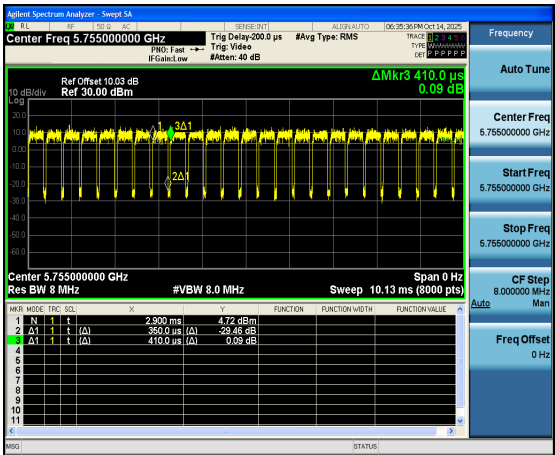
802.11n(HT40)



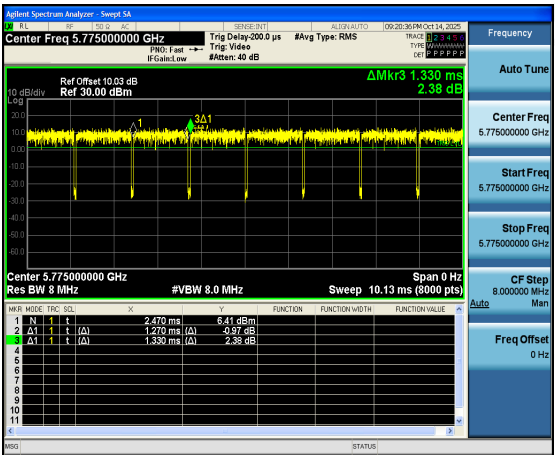
802.11ac(HT20)



802.11ac(HT40)



802.11ac(HT80)



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4. Test Results and Measurement Data

4.1 AC Conducted Emission

4.1.1 Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10: 2020														
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:	Reference Plane 40cm E.U.T AC power 80cm LISN Filter AC power EMI Receiver Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m														
Test Mode:	Tx Mode														
Test Procedure:	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: 2020 on conducted measurement.														
Test Result:	Pass														

4.1.2 Test Instruments

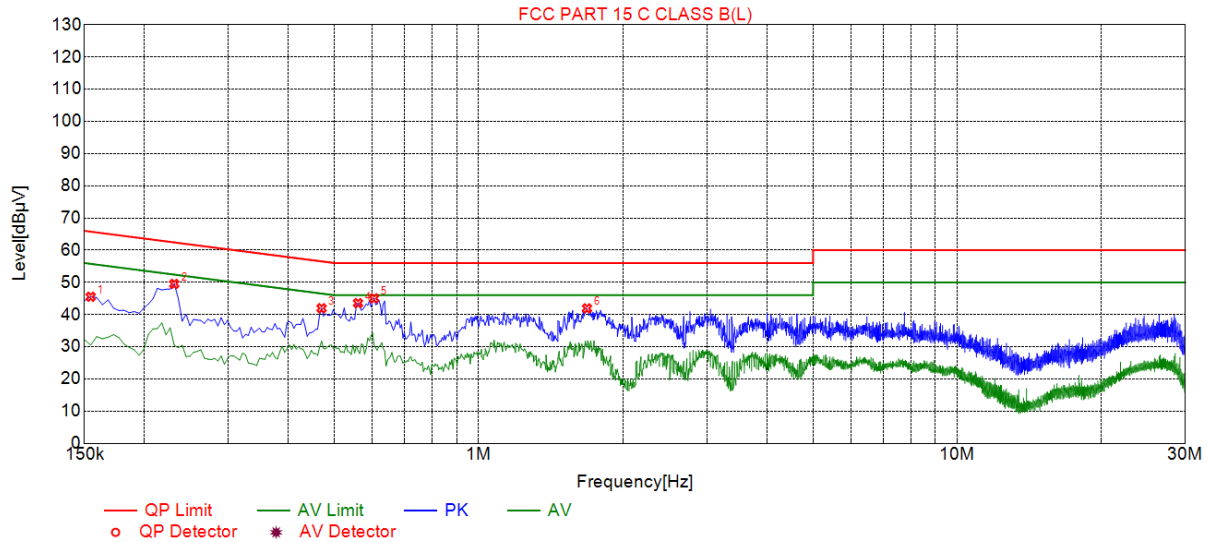
Conducted Emission Shielding Room Test Site (843)

Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESR	HKE-005	Feb. 19, 2025	Feb. 18, 2026
LISN	R&S	ENV216	HKE-002	Feb. 19, 2025	Feb. 18, 2026
LISN	R&S	ENV216	HKE-059	Feb. 19, 2025	Feb. 18, 2026
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 19, 2025	Feb. 18, 2026
EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	N/A	N/A
10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 19, 2025	Feb. 18, 2026

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

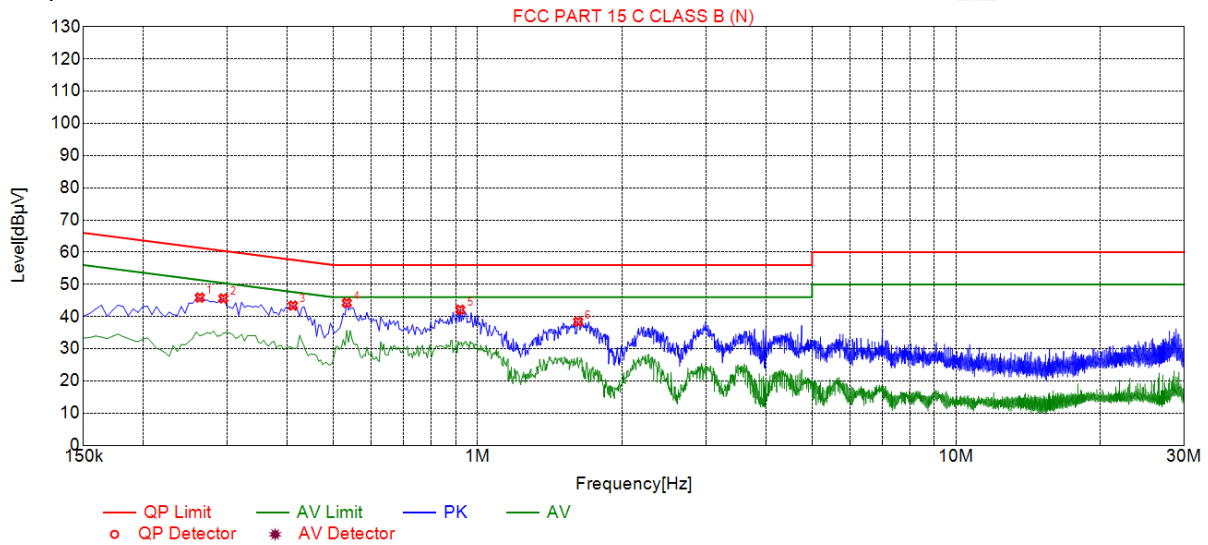
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1545	45.53	19.56	65.75	20.22	25.97	PK	L
2	0.2310	49.52	19.83	62.41	12.89	29.69	PK	L
3	0.4695	41.96	19.84	56.52	14.56	22.12	PK	L
4	0.5595	43.56	19.80	56.00	12.44	23.76	PK	L
5	0.6045	45.03	19.75	56.00	10.97	25.28	PK	L
6	1.6845	41.93	20.03	56.00	14.07	21.90	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	0.2625	45.90	19.65	61.35	15.45	26.25	PK	N
2	0.2940	45.64	19.66	60.41	14.77	25.98	PK	N
3	0.4110	43.42	19.70	57.63	14.21	23.72	PK	N
4	0.5325	44.24	19.75	56.00	11.76	24.49	PK	N
5	0.9195	42.14	19.76	56.00	13.86	22.38	PK	N
6	1.6215	38.40	19.87	56.00	17.60	18.53	PK	N

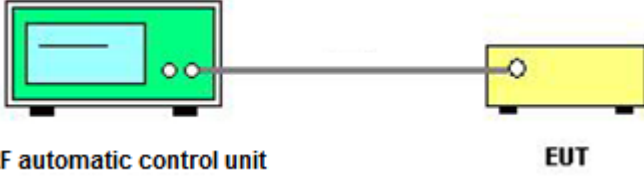
Remark: Margin = Limit – Level

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
Test Setup:	 RF automatic control unit EUT	
Test Mode:	Transmitting mode with modulation	
Test Procedure:	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 RF automatic control unit by RF cable. 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-025	Feb. 19, 2025	Feb. 18, 2026
Spectrum analyzer	Agilent	N9020A	HKE-117	Feb. 19, 2025	Feb. 18, 2026
Power meter	Agilent	E4419B	HKE-085	Feb. 19, 2025	Feb. 18, 2026
Power Sensor	Agilent	E9300A	HKE-086	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	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).

4.2.3 Test Data

Configuration Band IV (5725 - 5850 MHz)					
Mode	Test channel	Maximum Conducted Output Power (dBm)		Limit (dBm)	Result
		Antenna port 1	Antenna port 2		
802.11a	CH149	8.08	7.91	30	PASS
802.11a	CH157	9.99	8.55	30	PASS
802.11a	CH165	10.21	7.91	30	PASS
802.11n(HT20)	CH149	9.11	8.81	30	PASS
802.11n(HT20)	CH157	8.38	8.27	30	PASS
802.11n(HT20)	CH165	8.35	7.64	30	PASS
802.11n(HT40)	CH151	8.46	9.29	30	PASS
802.11n(HT40)	CH159	9.34	8.82	30	PASS
802.11ac(HT20)	CH149	8.71	8.88	30	PASS
802.11ac(HT20)	CH157	8.49	8.56	30	PASS
802.11ac(HT20)	CH165	9.69	8.03	30	PASS
802.11ac(HT40)	CH151	10.30	9.45	30	PASS
802.11ac(HT40)	CH159	9.39	8.39	30	PASS
802.11ac(HT80)	CH155	9.55	9.81	30	PASS

Configuration Band IV (5725 - 5850 MHz)						
Mode	Test channel	Maximum Conducted Output Power (dBm)			Limit (dBm)	Result
		Antenna port 1	Antenna port 2	MIMO		
802.11n(HT20)	CH149	9.11	8.81	11.97	30	PASS
802.11n(HT20)	CH157	8.38	8.27	11.34	30	PASS
802.11n(HT20)	CH165	8.35	7.64	11.02	30	PASS
802.11n(HT40)	CH151	8.46	9.29	11.91	30	PASS
802.11n(HT40)	CH159	9.34	8.82	12.10	30	PASS
802.11ac(HT20)	CH149	8.71	8.88	11.81	30	PASS
802.11ac(HT20)	CH157	8.49	8.56	11.54	30	PASS
802.11ac(HT20)	CH165	9.69	8.03	11.95	30	PASS
802.11ac(HT40)	CH151	10.30	9.45	12.91	30	PASS
802.11ac(HT40)	CH159	9.39	8.39	11.93	30	PASS
802.11ac(HT80)	CH155	9.55	9.81	12.69	30	PASS

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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:	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 at least 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-025	Feb. 19, 2025	Feb. 18, 2026
Spectrum analyzer	Agilent	N9020A	HKE-117	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	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).

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4.3.3 Test Data

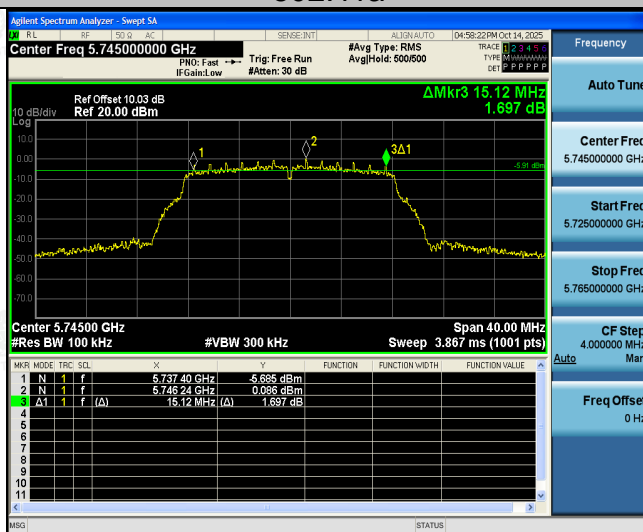
ANT. 1

Band IV (5725 - 5850 MHz)					
Mode	Test channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	CH149	5745	15.120	0.5	PASS
802.11a	CH157	5785	15.080	0.5	PASS
802.11a	CH165	5825	15.120	0.5	PASS
802.11n(HT20)	CH149	5745	15.080	0.5	PASS
802.11n(HT20)	CH157	5785	15.120	0.5	PASS
802.11n(HT20)	CH165	5825	15.080	0.5	PASS
802.11n(HT40)	CH151	5755	35.120	0.5	PASS
802.11n(HT40)	CH159	5795	35.120	0.5	PASS
802.11ac(HT20)	CH149	5745	15.120	0.5	PASS
802.11ac(HT20)	CH157	5785	15.080	0.5	PASS
802.11ac(HT20)	CH165	5825	15.120	0.5	PASS
802.11ac(HT40)	CH151	5755	35.120	0.5	PASS
802.11ac(HT40)	CH159	5795	35.120	0.5	PASS
802.11ac(HT80)	CH155	5775	75.200	0.5	PASS

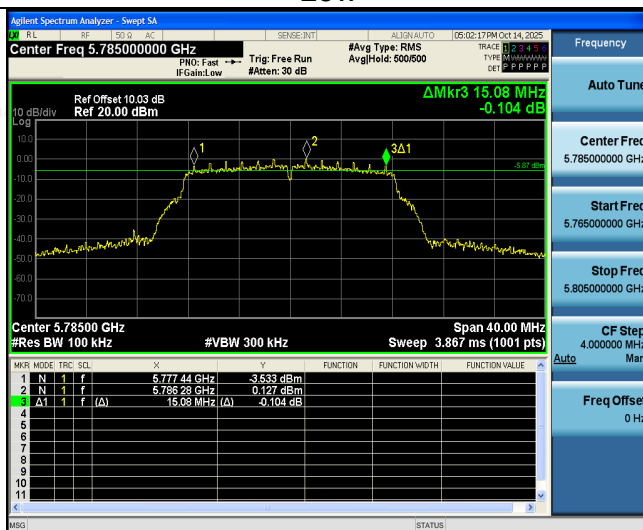
Test plots as follows:

Band IV (5725 – 5850 MHz)

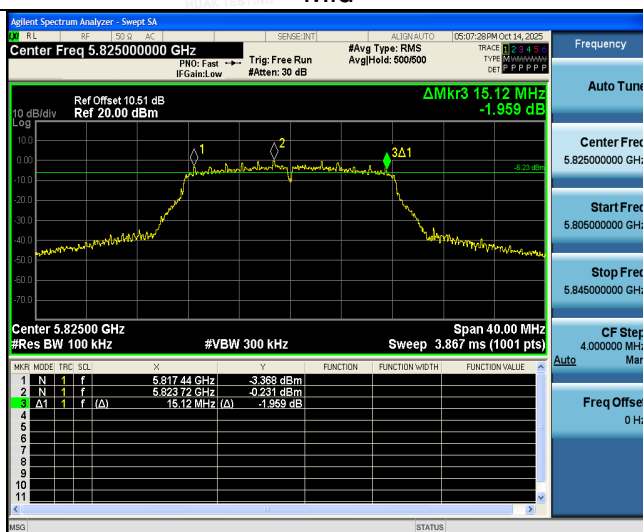
802.11a



Low



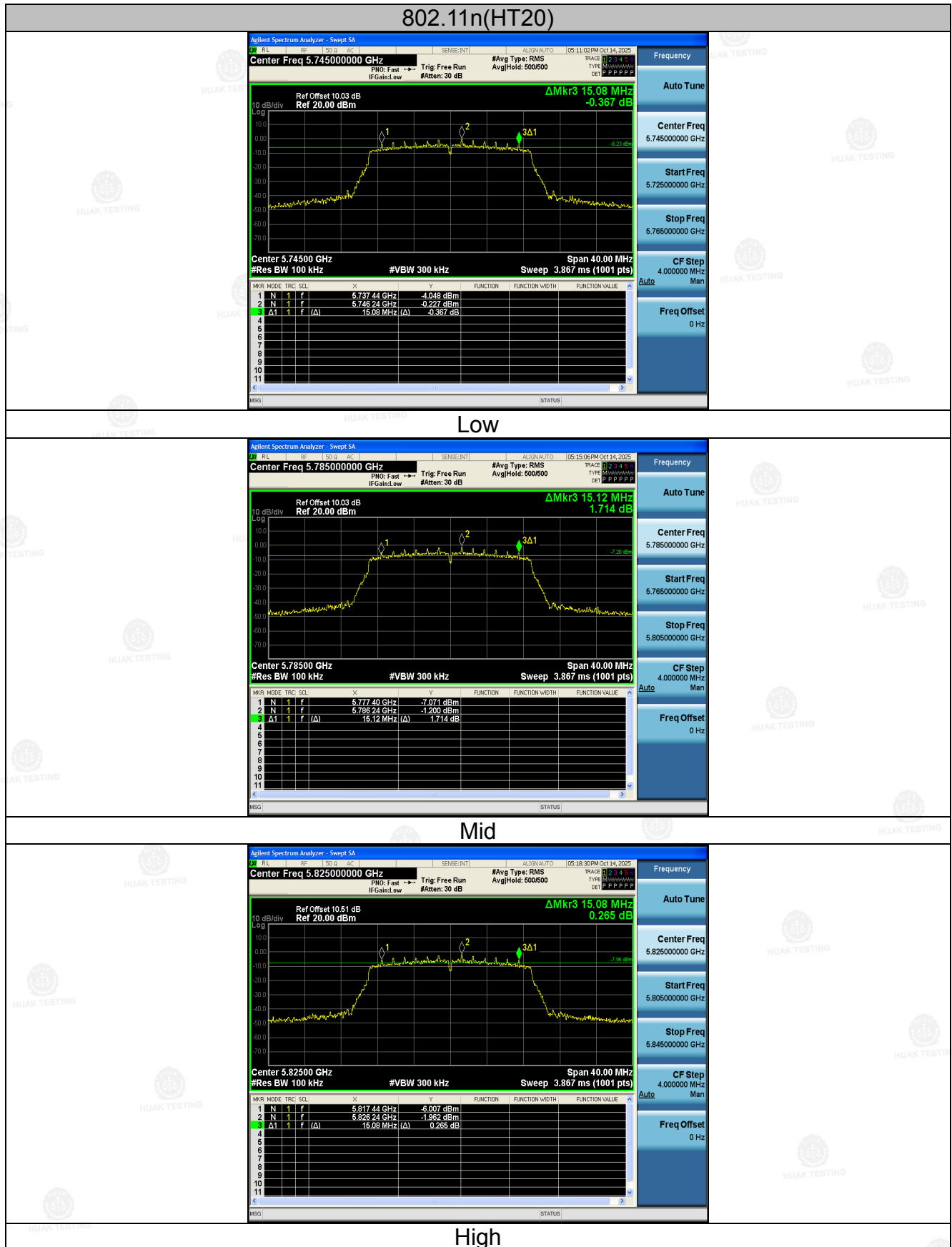
Mid



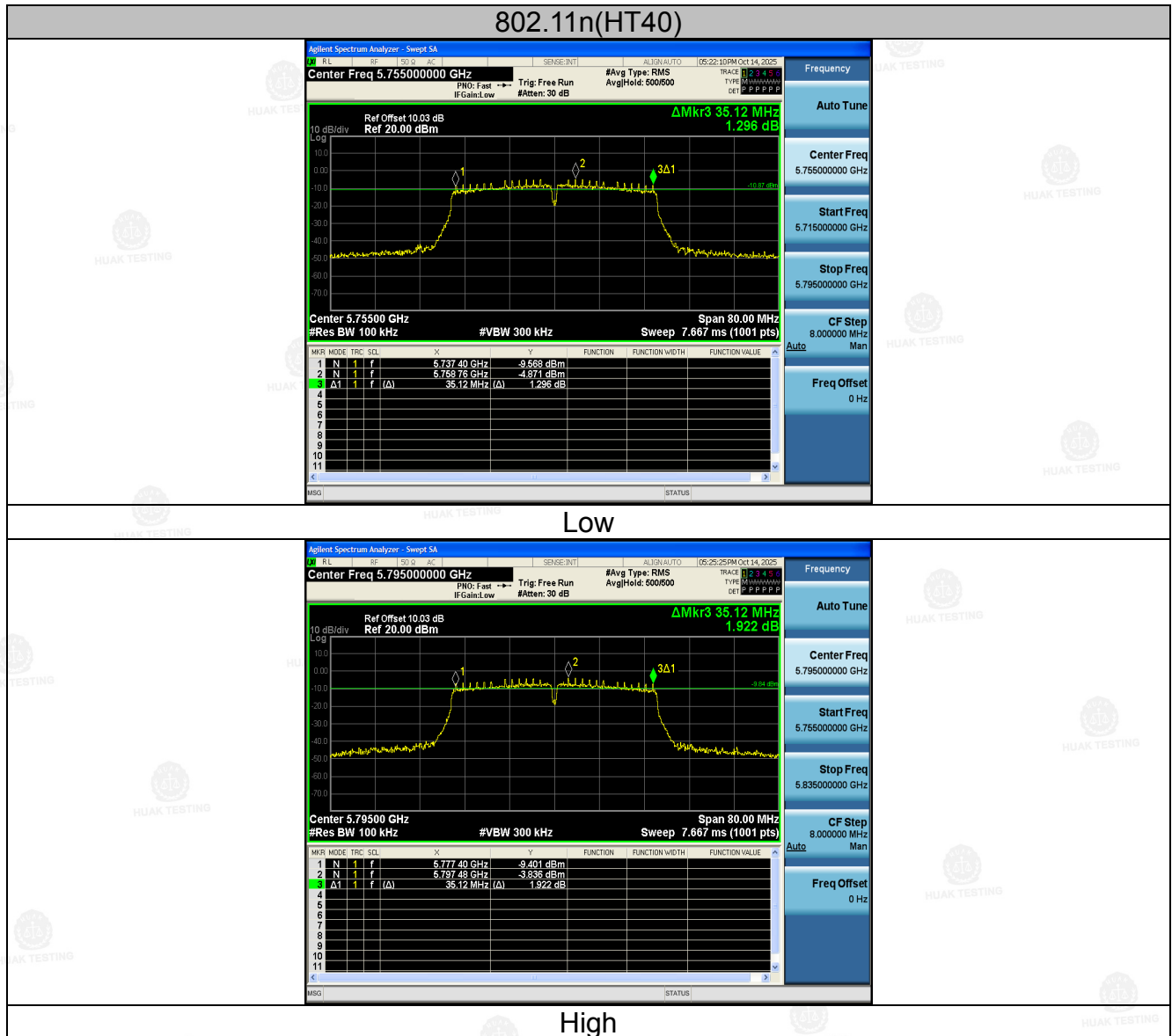
High

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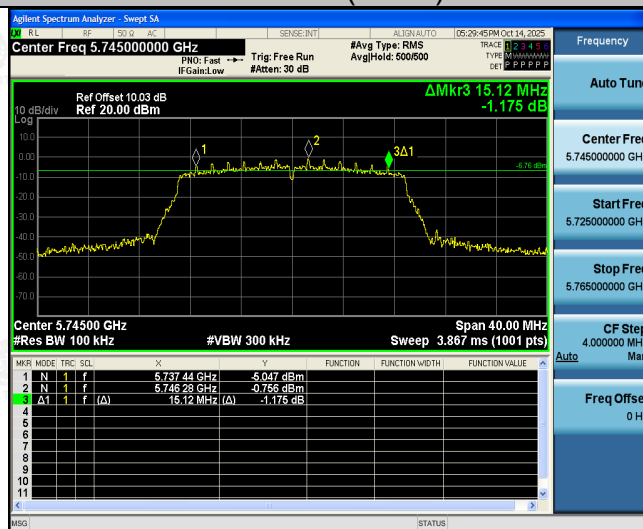
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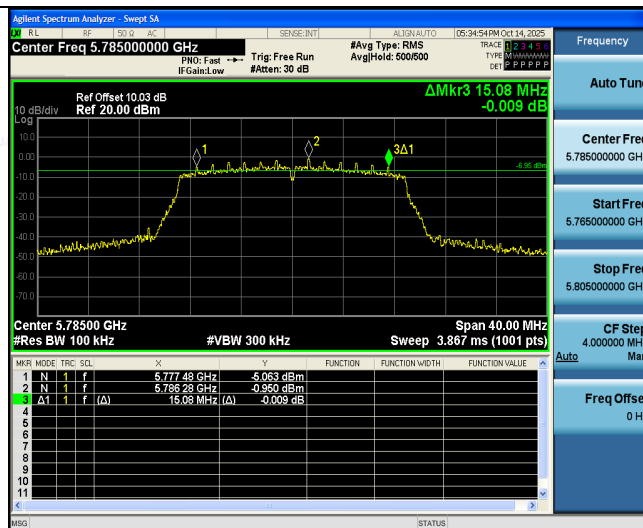
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

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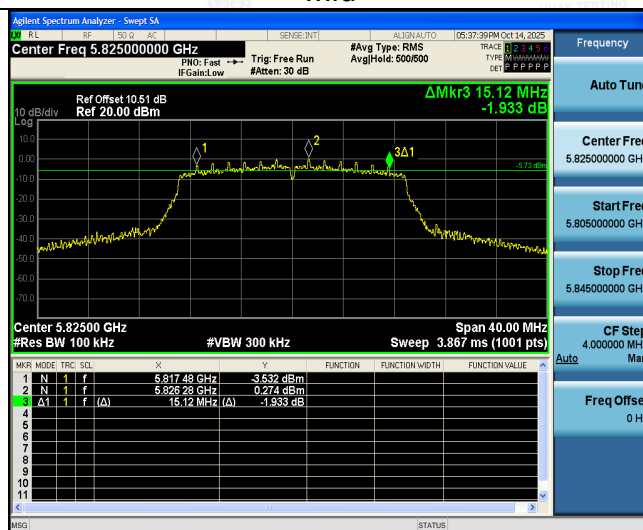
802.11ac(HT20)



Low

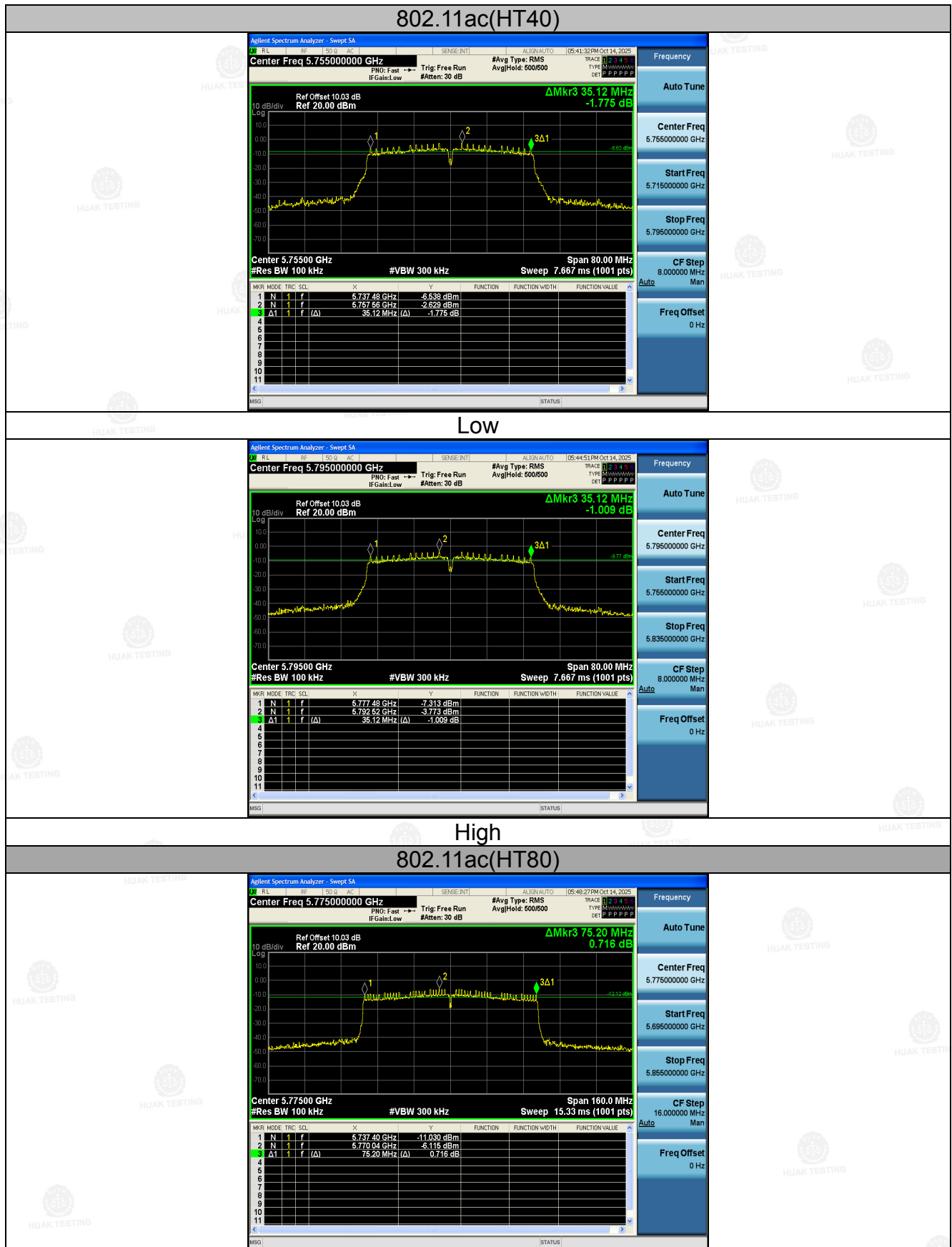


Mid



High

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ANT. 2

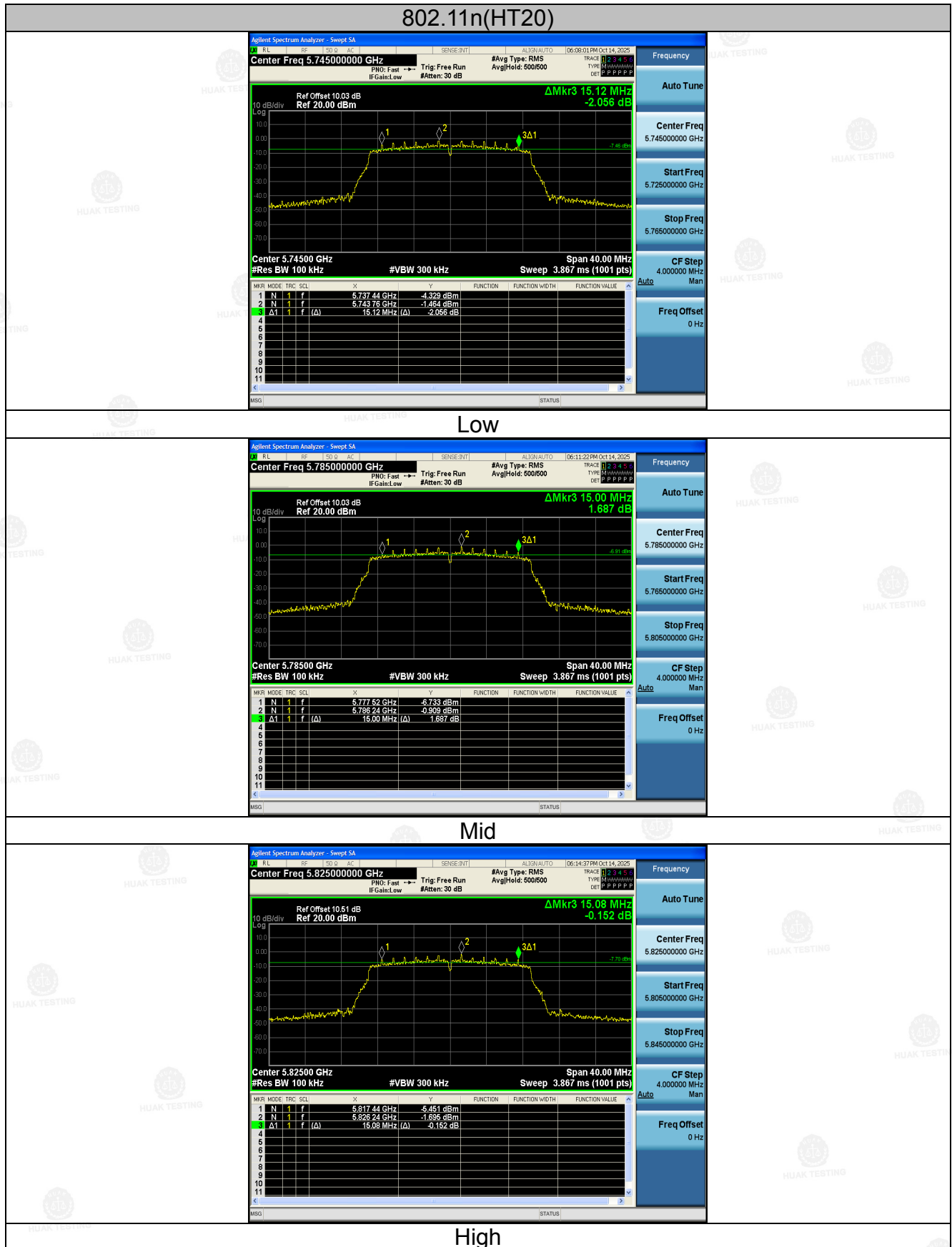
Band IV (5725 - 5850 MHz)					
Mode	Test channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	CH149	5745	15.080	0.5	PASS
802.11a	CH157	5785	15.120	0.5	PASS
802.11a	CH165	5825	15.120	0.5	PASS
802.11n(HT20)	CH151	5745	15.120	0.5	PASS
802.11n(HT20)	CH159	5785	15.000	0.5	PASS
802.11n(HT20)	CH149	5825	15.080	0.5	PASS
802.11n(HT40)	CH157	5755	35.120	0.5	PASS
802.11n(HT40)	CH165	5795	35.120	0.5	PASS
802.11ac(HT20)	CH151	5745	15.080	0.5	PASS
802.11ac(HT20)	CH159	5785	15.720	0.5	PASS
802.11ac(HT20)	CH155	5825	15.720	0.5	PASS
802.11ac(HT40)	CH149	5755	35.040	0.5	PASS
802.11ac(HT40)	CH157	5795	35.040	0.5	PASS
802.11ac(HT80)	CH165	5775	75.200	0.5	PASS

Test plots as follows:

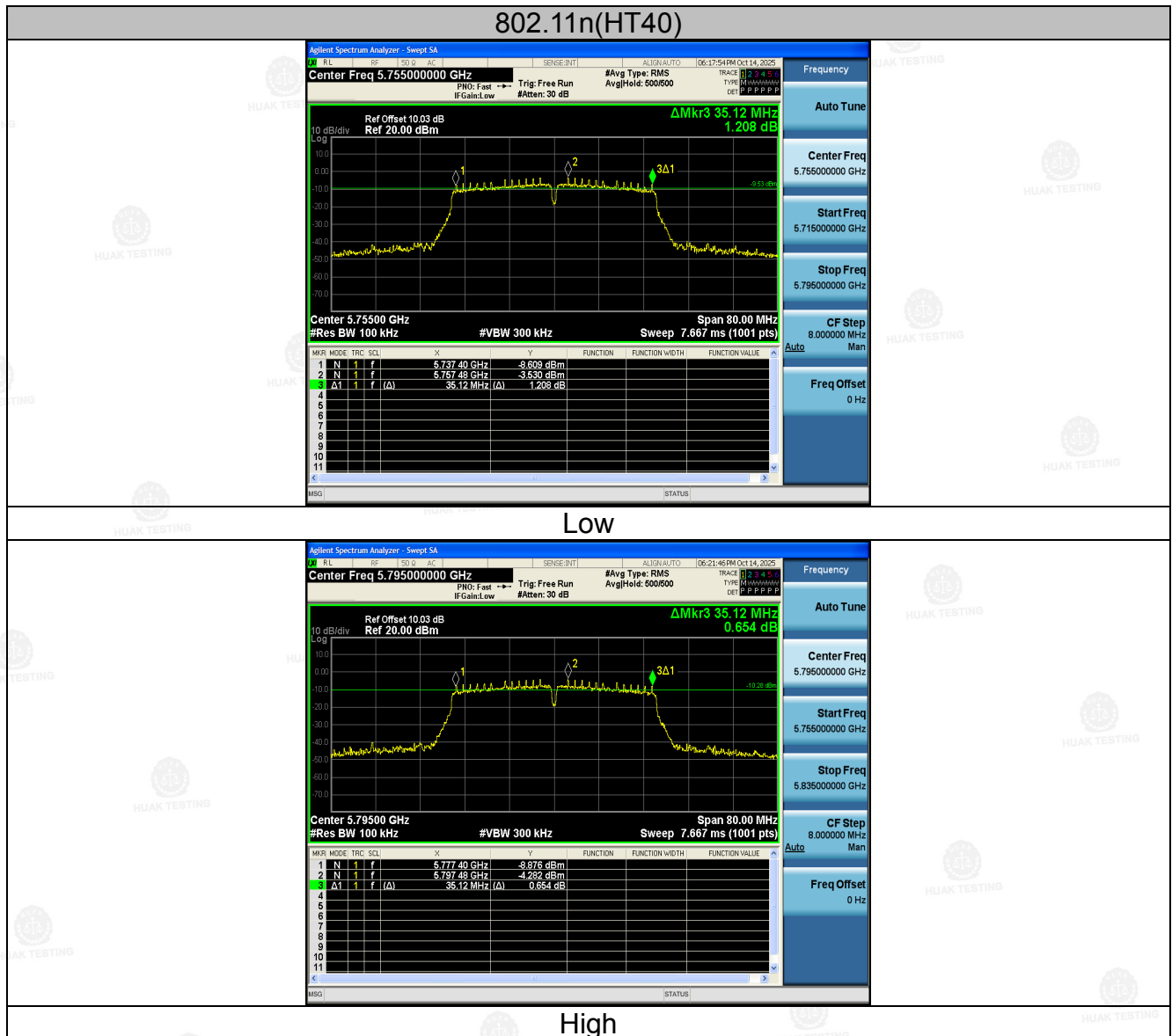
Band IV (5725 – 5850 MHz)



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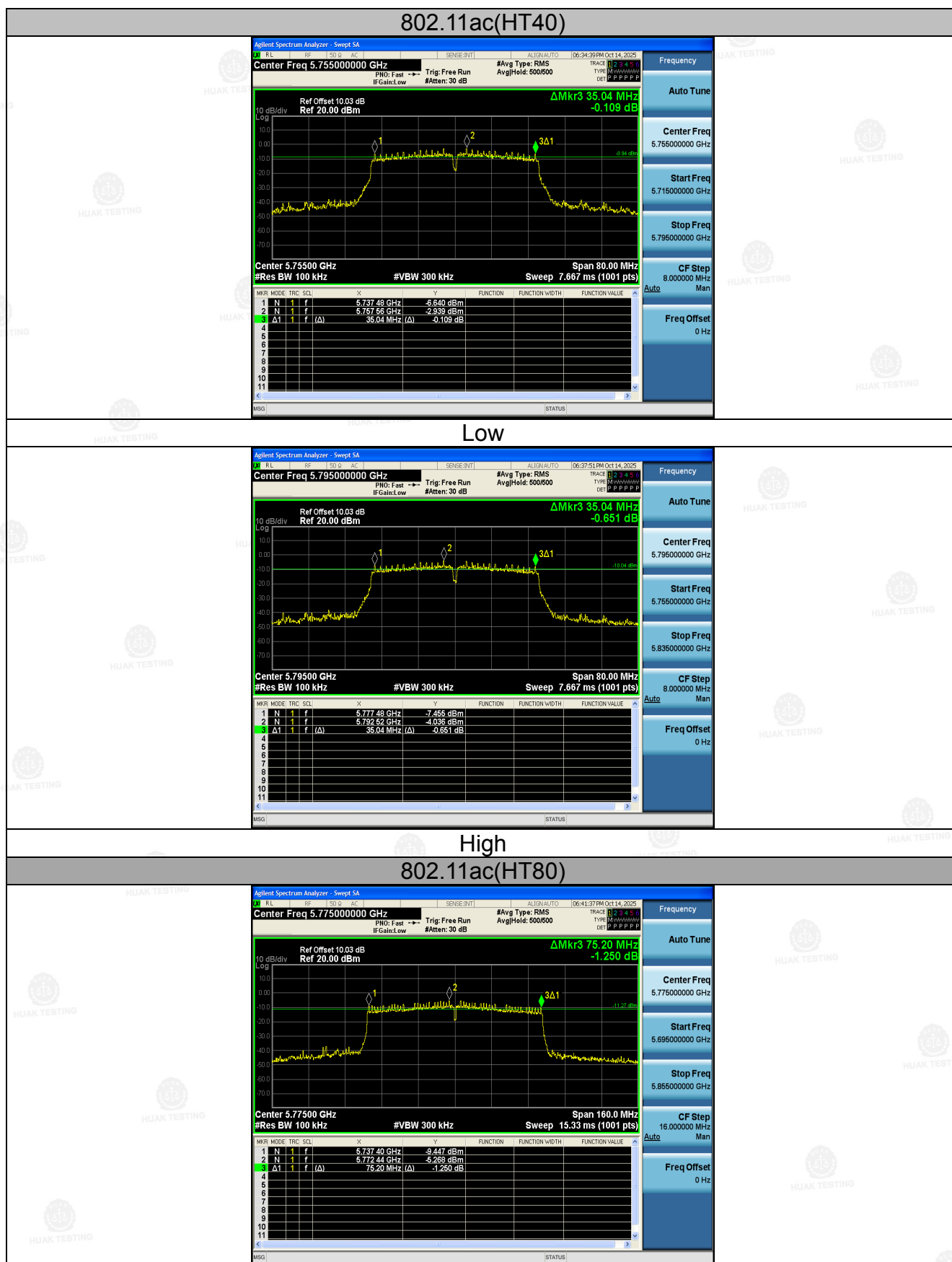


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4.4 26dB Bandwidth and 99% Occupied Bandwidth

4.4.1 Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	No restriction limits
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	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 $RBW = 1\% \text{ EBW}$, $VBW \geq 3RBW$, In order to make an accurate measurement. 4. Measure and record the results in the test report.
Test Result:	N/A

4.4.2 Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
Spectrum analyzer	Agilent	N9020A	HKE-117	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	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).

4.4.3 Test Result

N/A

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4.5 Power Spectral Density

4.5.1 Test Specification

Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
Limit:	$\leq 30.00\text{dBm}/500\text{KHz}$ for Band IV 5725MHz-5850MHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 2. Set RBW = 510 kHz/1 MHz, VBW $\geq 3 \times \text{RBW}$, Sweep time = Auto, Detector = RMS. 3. Allow the sweeps to continue until the trace stabilizes. 4. Use the peak marker function to determine the maximum amplitude level. 5. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.
Test Result:	PASS

4.5.2 Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
Spectrum analyzer	Agilent	N9020A	HKE-117	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	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).

4.5.3 Test Data

ANT. 1

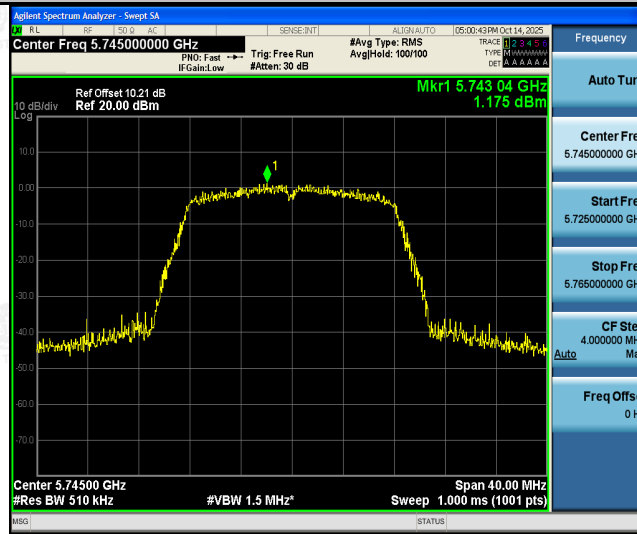
Configuration Band IV (5725 - 5850 MHz)						
Mode	Test channel	Level [dBm/510kHz]	10log(500/510)	Power Spectral Density	Limit (dBm/500kHz)	Result
802.11a	CH149	1.18	-0.086	1.094	30	PASS
802.11a	CH157	3.98	-0.086	3.894	30	PASS
802.11a	CH165	3.31	-0.086	3.224	30	PASS
802.11n(HT20)	CH149	2.09	-0.086	2.004	30	PASS
802.11n(HT20)	CH157	2.21	-0.086	2.124	30	PASS
802.11n(HT20)	CH165	1.89	-0.086	1.804	30	PASS
802.11n(HT40)	CH151	-1.30	-0.086	-1.386	30	PASS
802.11n(HT40)	CH159	-0.20	-0.086	-0.286	30	PASS
802.11ac(HT20)	CH149	2.65	-0.086	2.564	30	PASS
802.11ac(HT20)	CH157	3.14	-0.086	3.054	30	PASS
802.11ac(HT20)	CH165	3.27	-0.086	3.184	30	PASS
802.11ac(HT40)	CH151	1.14	-0.086	1.054	30	PASS
802.11ac(HT40)	CH159	-0.49	-0.086	-0.576	30	PASS
802.11ac(HT80)	CH155	-2.06	-0.086	-2.146	30	PASS

Note: 1.Power Spectral Density= Level [dBm/510kHz]+(10log(Limit RBW/Test RBW)
2. Instrument attenuation and cable loss See test diagram

Test plots as follows:

Band IV (5725 – 5850MHz)

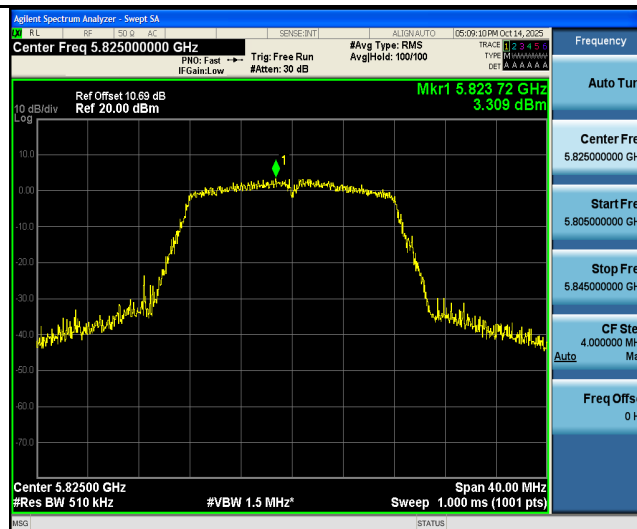
802.11a



Low

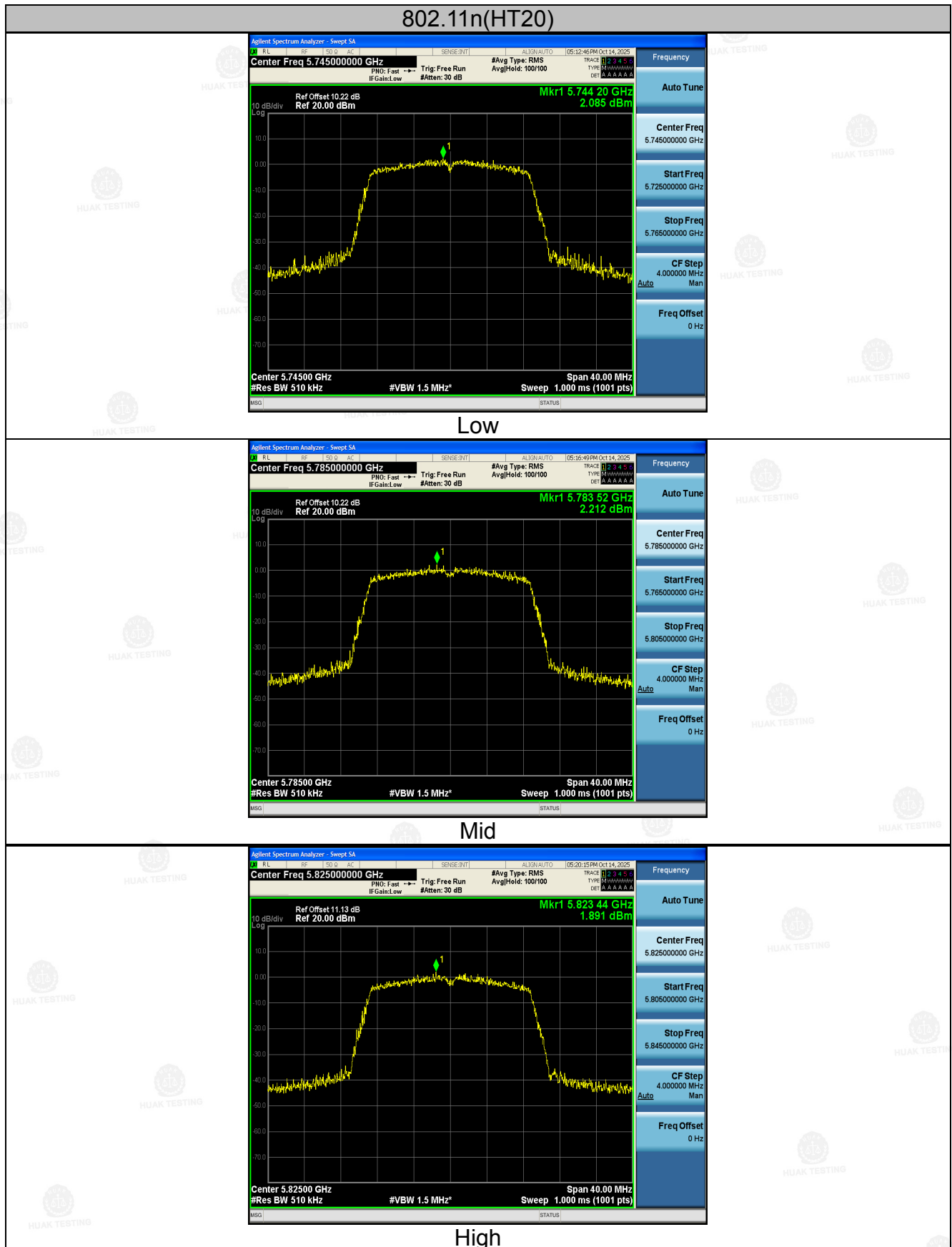


Mid



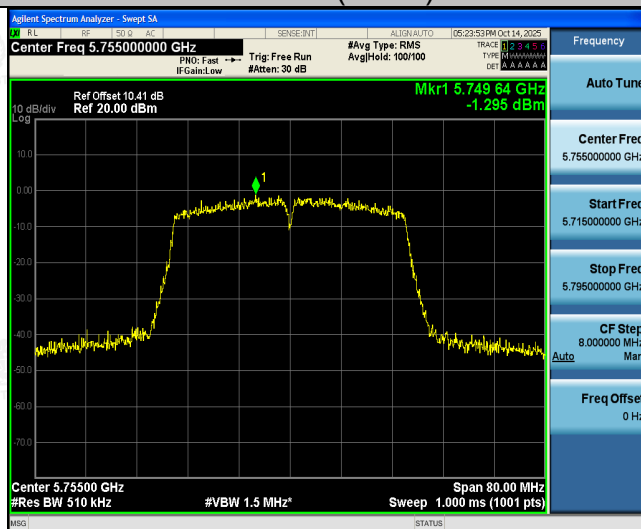
High

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802.11n(HT40)

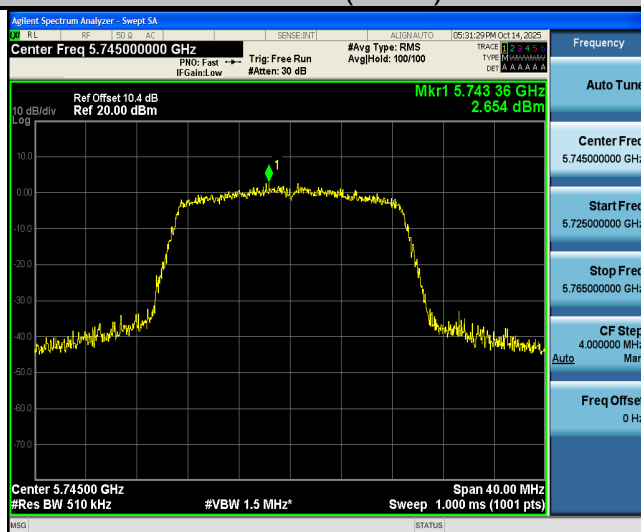


Low



High

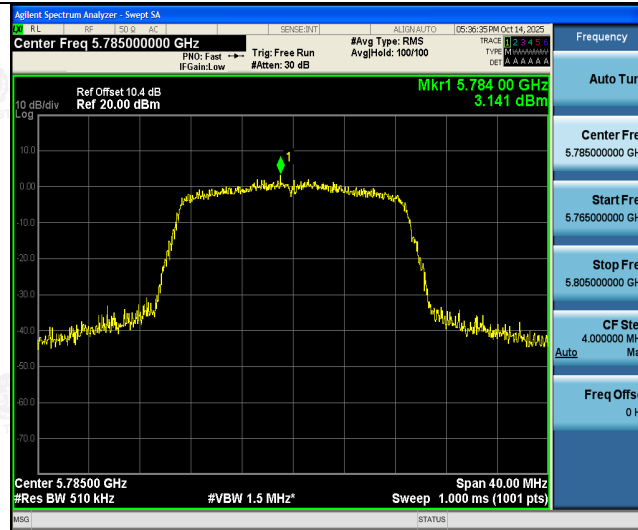
802.11ac(HT20)



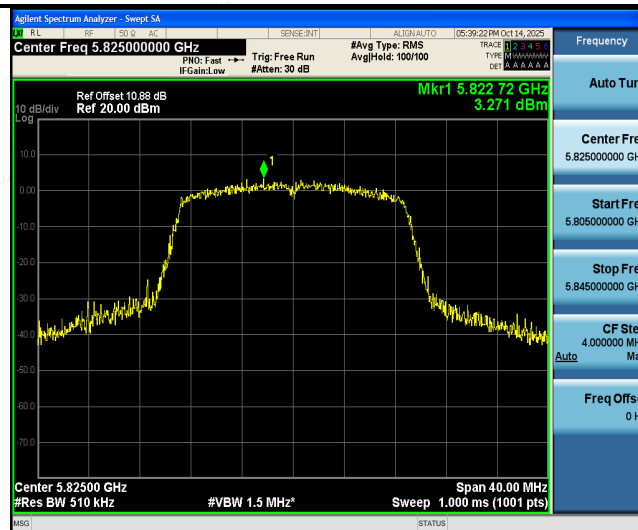
Low

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Mid



High

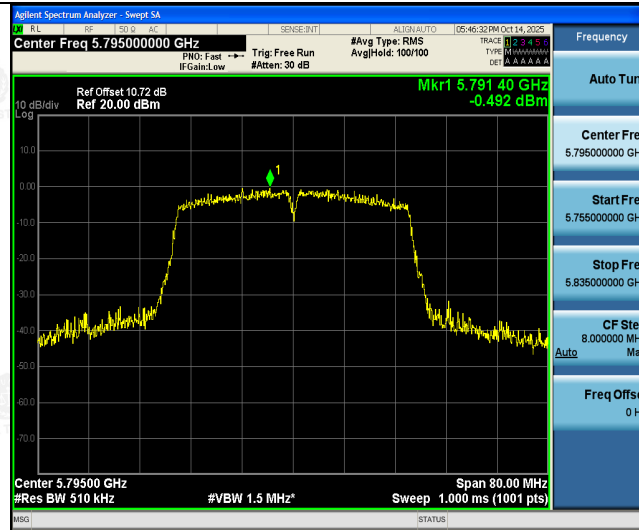
802.11ac(HT40)



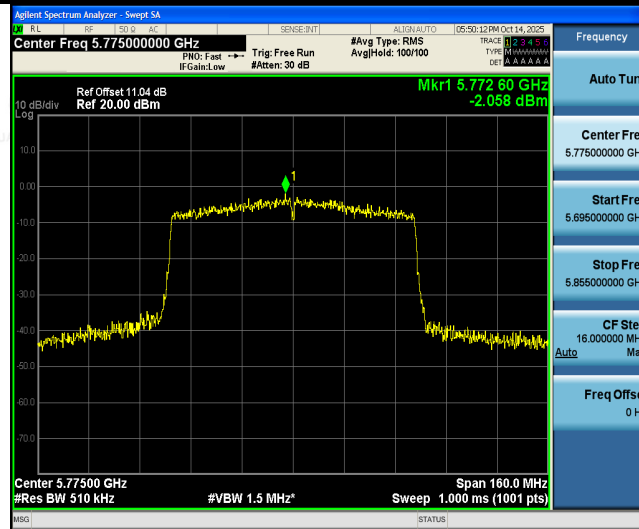
Low

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High
802.11ac(HT80)



ANT. 2

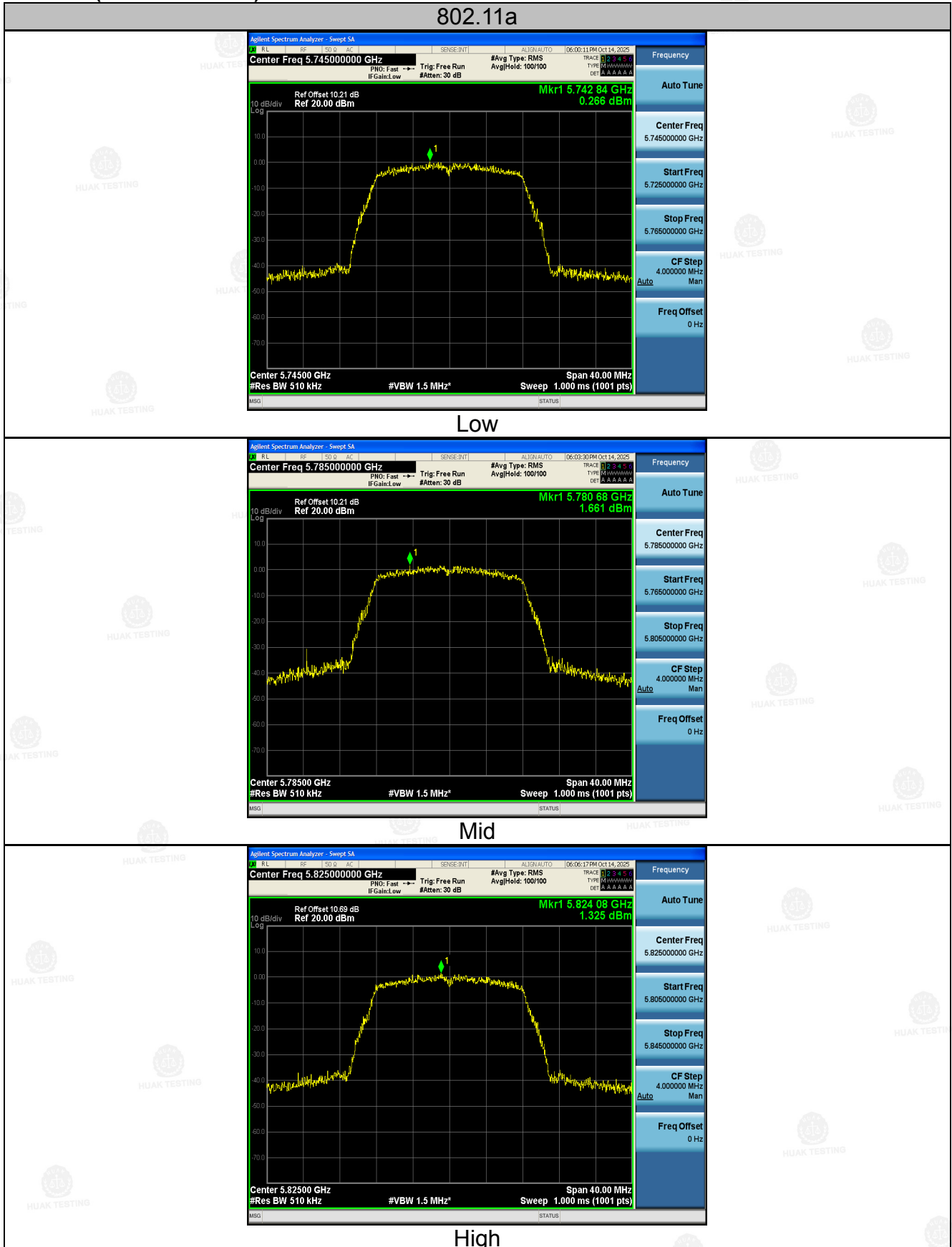
Configuration Band IV (5725 - 5850 MHz)						
Mode	Test channel	Level [dBm/510kHz]	$10\log(500/510)$	Power Spectral Density	Limit (dBm/500kHz)	Result
802.11a	CH149	0.27	-0.086	0.184	30	PASS
802.11a	CH157	1.66	-0.086	1.574	30	PASS
802.11a	CH161	1.33	-0.086	1.244	30	PASS
802.11n(HT20)	CH149	2.84	-0.086	2.754	30	PASS
802.11n(HT20)	CH157	2.15	-0.086	2.064	30	PASS
802.11n(HT20)	CH161	0.75	-0.086	0.664	30	PASS
802.11n(HT40)	CH151	-0.41	-0.086	-0.496	30	PASS
802.11n(HT40)	CH159	-0.77	-0.086	-0.856	30	PASS
802.11ac(HT20)	CH149	4.26	-0.086	4.174	30	PASS
802.11ac(HT20)	CH157	4.38	-0.086	4.294	30	PASS
802.11ac(HT20)	CH161	2.91	-0.086	2.824	30	PASS
802.11ac(HT40)	CH151	1.33	-0.086	1.244	30	PASS
802.11ac(HT40)	CH159	0.27	-0.086	0.184	30	PASS
802.11ac(HT80)	CH155	-1.03	-0.086	-1.116	30	PASS

Note: 1. Power Spectral Density= Level [dBm/510kHz]+ (10log(Limit RBW/Test RBW))

2. Instrument attenuation and cable loss See test diagram

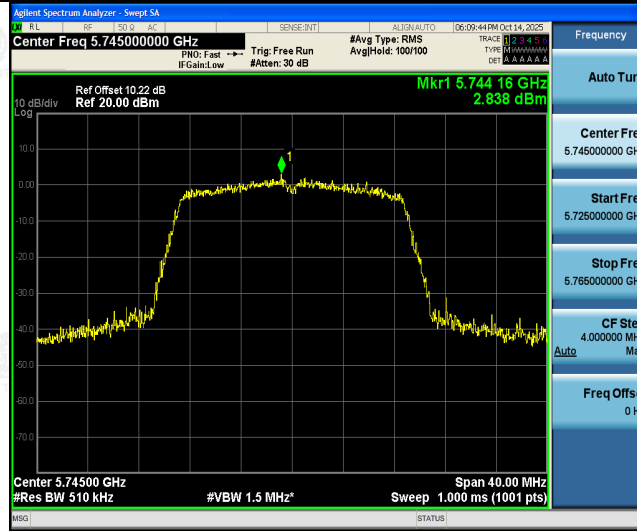
Test plots as follows:

Band IV (5725 – 5850MHz)



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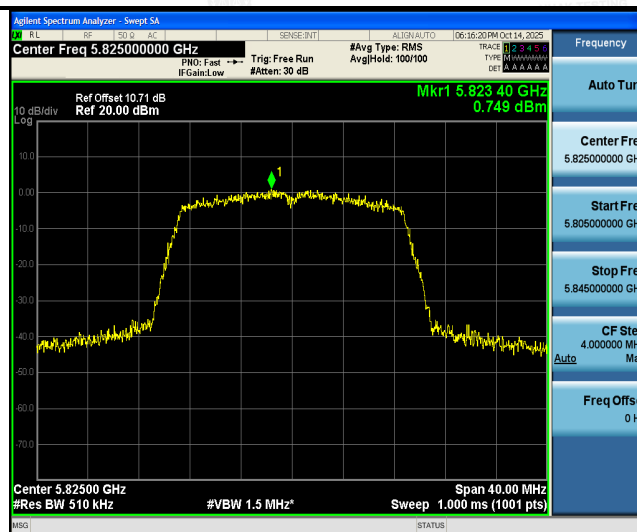
802.11n(HT20)



Low



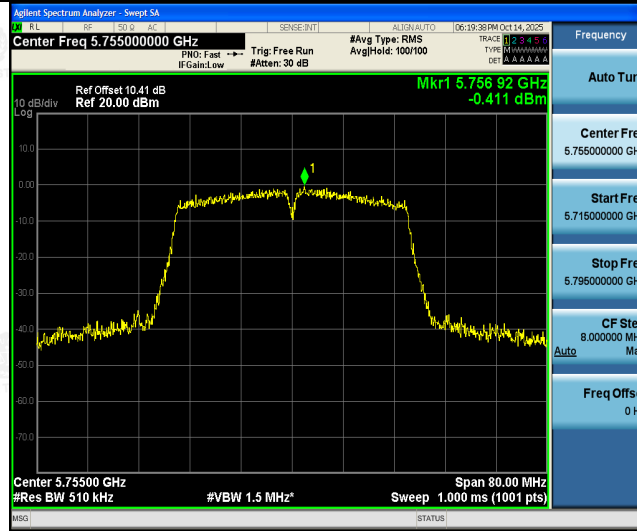
Mid



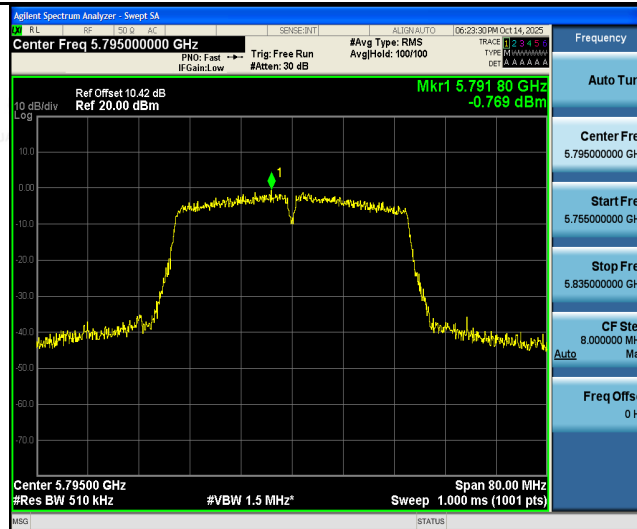
High

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802.11n(HT40)

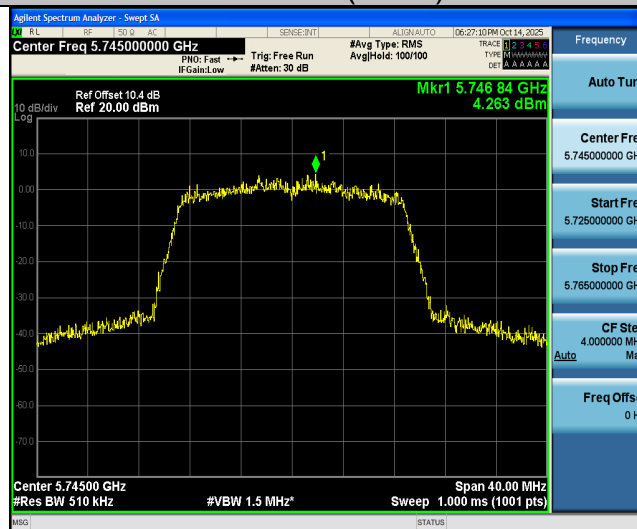


Low



High

802.11ac(HT20)

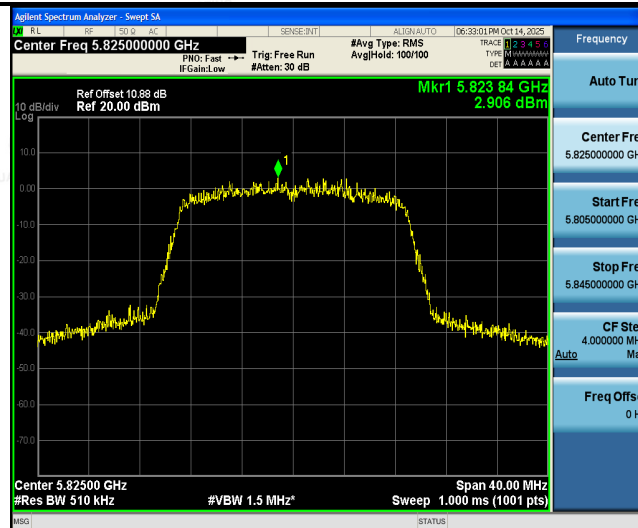


Low

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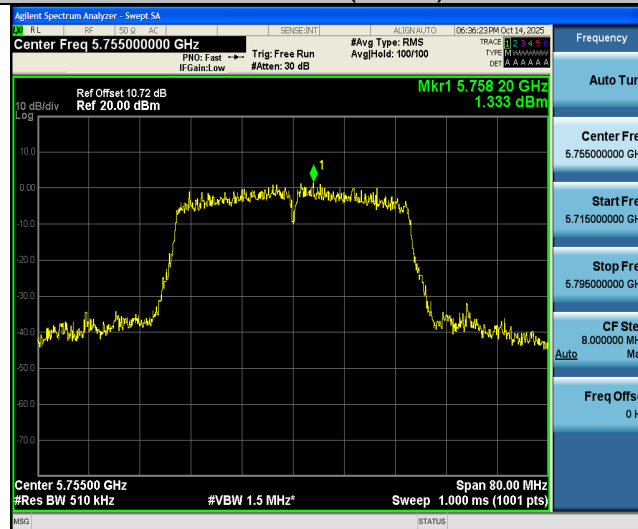


Mid



High

802.11ac(HT40)



Low

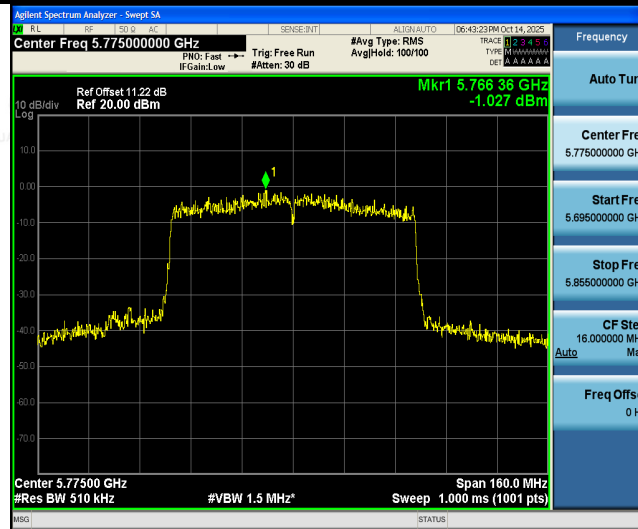
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High

802.11ac(T80)



For MIMO antenna port 1+antenna port 2

Configuration Band IV (5725 - 5850 MHz)

Mode	Test Channel	Power Density (dBm/500kHz)	Limit (dBm/500kHz)	Result
802.11n(HT20)	CH149	5.58	30	PASS
802.11n(HT20)	CH157	5.28	30	PASS
802.11n(HT20)	CH161	4.45	30	PASS
802.11n(HT40)	CH151	2.26	30	PASS
802.11n(HT40)	CH159	2.62	30	PASS
802.11ac(HT20)	CH149	6.63	30	PASS
802.11ac(HT20)	CH157	6.90	30	PASS
802.11ac(HT20)	CH161	6.19	30	PASS
802.11ac(HT40)	CH151	4.33	30	PASS
802.11ac(HT40)	CH159	3.00	30	PASS
802.11ac(HT80)	CH155	1.58	30	PASS

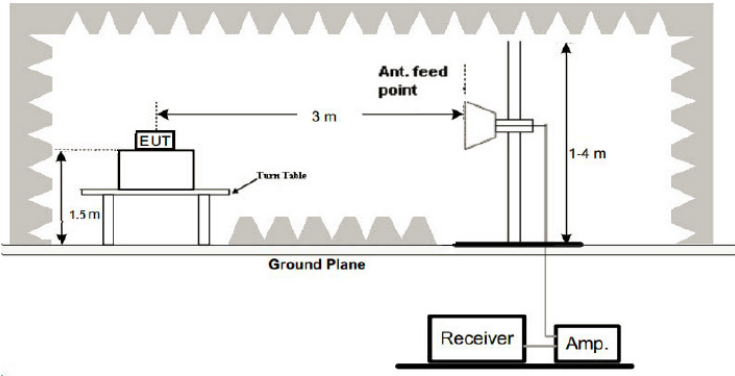
Note:

1. According to KDB 662911, Result power = $10\log(10^{(ant1/10)} + 10^{(ant2/10)})$.
2. Result unit: dBm/500kHz, The end result is converted to units of dBm.
Limit=30 dBm/500kHz

Note: This product supports antenna 1 and antenna 2 launch, but only support 802.11 n/ac/ax for MIMO mode, not support 802.11 a for MIMO mode.

4.6 Band Edge

4.6.1 Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407
Test Method:	ANSI C63.10: 2020
Limit:	(1) For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. The limit of frequency below 1GHz and which fall in restricted bands should complies 15.209.
Test Setup:	
Test Mode:	Transmitting mode with modulation

Test Procedure:

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi peak or average method as specified and then reported in a data sheet.

Test Result:

PASS

4.6.2 Test Instruments

Radiated Emission Test Site (966)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
Spectrum analyzer	Agilent	N9020A	HKE-117	Feb. 19, 2025	Feb. 18, 2026
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 19, 2025	Feb. 18, 2026
Preamplifier	EMCI	EMC051845S	HKE-006	Feb. 19, 2025	Feb. 18, 2026
Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 19, 2025	Feb. 18, 2026
Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 19, 2025	Feb. 18, 2026
6dB Attenuator	Pasternack	6db	HKE-184	Feb. 19, 2025	Feb. 18, 2026
EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 19, 2025	Feb. 18, 2026
Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	Feb. 20, 2026
Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	Feb. 20, 2026
Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	Feb. 20, 2026
EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	N/A	N/A
RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	N/A	N/A

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

4.6.3 Test Data

All modes of operation were investigated and the worst-case emissions of ANT.2 are reported.

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	51.67	-2.06	49.61	68.2	18.59	peak
5700	86.31	-1.96	84.35	105.2	20.85	peak
5720	94.1	-2.87	91.23	110.8	19.57	peak
5725	109.17	-2.14	107.03	122.2	15.17	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.27	-2.06	55.21	68.2	12.99	peak
5700	86.74	-1.96	84.78	105.2	20.42	peak
5720	93.4	-2.87	90.53	110.8	20.27	peak
5725	109.07	-2.14	106.93	122.2	15.27	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.23	-1.97	108.26	122.2	13.94	peak
5855	94.36	-2.13	92.23	110.8	18.57	peak
5875	85.65	-2.65	83	105.2	22.2	peak
5925	50.69	-2.28	48.41	68.2	19.79	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	102.1	-1.97	100.13	122.2	22.07	peak
5855	92.33	-2.13	90.2	110.8	20.6	peak
5875	86.86	-2.65	84.21	105.2	20.99	peak
5925	54.4	-2.28	52.12	68.2	16.08	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Operation Mode: 802.11n20 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	56.44	-2.06	54.38	68.2	13.82	peak
5700	87.91	-1.96	85.95	105.2	19.25	peak
5720	95.94	-2.87	93.07	110.8	17.73	peak
5725	112.3	-2.14	110.16	122.2	12.04	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	55.86	-2.06	53.8	68.2	14.4	peak
5700	96.79	-1.96	94.83	105.2	10.37	peak
5720	95.39	-2.87	92.52	110.8	18.28	peak
5725	111.71	-2.14	109.57	122.2	12.63	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	109.68	-1.97	107.71	122.2	14.49	peak
5855	92.96	-2.13	90.83	110.8	19.97	peak
5875	97.32	-2.65	94.67	105.2	10.53	peak
5925	52.41	-2.28	50.13	68.2	18.07	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	107.12	-1.97	105.15	122.2	17.05	peak
5855	94.52	-2.13	92.39	110.8	18.41	peak
5875	88.27	-2.65	85.62	105.2	19.58	peak
5925	55.79	-2.28	53.51	68.2	14.69	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Operation Mode: 802.11n40 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.14	-2.06	55.08	68.2	13.12	peak
5700	91.43	-1.96	89.47	105.2	15.73	peak
5720	92.62	-2.87	89.75	110.8	21.05	peak
5725	109.96	-2.14	107.82	122.2	14.38	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.23	-2.06	55.17	68.2	13.03	peak
5700	91.31	-1.96	89.35	105.2	15.85	peak
5720	98.8	-2.87	95.93	110.8	14.87	peak
5725	110.93	-2.14	108.79	122.2	13.41	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	105.4	-1.97	103.43	122.2	18.77	peak
5855	91.09	-2.13	88.96	110.8	21.84	peak
5875	88.86	-2.65	86.21	105.2	18.99	peak
5925	54.06	-2.28	51.78	68.2	16.42	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	107.04	-1.97	105.07	122.2	17.13	peak
5855	92.7	-2.13	90.57	110.8	20.23	peak
5875	87.33	-2.65	84.68	105.2	20.52	peak
5925	52.71	-2.28	50.43	68.2	17.77	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Operation Mode: 802.11ac20 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	55.67	-2.06	53.61	68.2	14.59	peak
5700	87.03	-1.96	85.07	105.2	20.13	peak
5720	95.32	-2.87	92.45	110.8	18.35	peak
5725	108.71	-2.14	106.57	122.2	15.63	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	59.37	-2.06	57.31	68.2	10.89	peak
5700	88.65	-1.96	86.69	105.2	18.51	peak
5720	94.66	-2.87	91.79	110.8	19.01	peak
5725	108.93	-2.14	106.79	122.2	15.41	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	110.74	-1.97	108.77	122.2	13.43	peak
5855	93.28	-2.13	91.15	110.8	19.65	peak
5875	88.39	-2.65	85.74	105.2	19.46	peak
5925	52.72	-2.28	50.44	68.2	17.76	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	108.6	-1.97	106.63	122.2	15.57	peak
5855	91.89	-2.13	89.76	110.8	21.04	peak
5875	86.35	-2.65	83.7	105.2	21.5	peak
5925	55.68	-2.28	53.4	68.2	14.8	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Operation Mode: 802.11ac40 Mode with 5.8G TX CH Low

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	57.7	-2.06	55.64	68.2	12.56	peak
5700	88.19	-1.96	86.23	105.2	18.97	peak
5720	92.28	-2.87	89.41	110.8	21.39	peak
5725	109.35	-2.14	107.21	122.2	14.99	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	54.64	-2.06	52.58	68.2	15.62	peak
5700	87.47	-1.96	85.51	105.2	19.69	peak
5720	92.38	-2.87	89.51	110.8	21.29	peak
5725	110.28	-2.14	108.14	122.2	14.06	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5850	112.52	-1.97	110.55	122.2	11.65	
5855	92.12	-2.13	89.99	110.8	20.81	peak
5875	85.62	-2.65	82.97	105.2	22.23	peak
5925	54.92	-2.28	52.64	68.2	15.56	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5850	112.51	-1.97	110.54	122.2	11.66	
5855	91.48	-2.13	89.35	110.8	21.45	peak
5875	88.7	-2.65	86.05	105.2	19.15	peak
5925	57.78	-2.28	55.5	68.2	12.7	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Operation Mode: 802.11ac80 Mode with 5.8G TX CH Low

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5650	56.96	-2.06	54.9	68.2	13.3	
5700	87.65	-1.96	85.69	105.2	19.51	peak
5720	92.01	-2.87	89.14	110.8	21.66	peak
5725	106.69	-2.14	104.55	122.2	17.65	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5650	56.7	-2.06	54.64	68.2	13.56	
5700	87.88	-1.96	85.92	105.2	19.28	peak
5720	93.65	-2.87	90.78	110.8	20.02	peak
5725	109.82	-2.14	107.68	122.2	14.52	peak
Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.						

Operation Mode: TX CH High with 5.8G

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5850	112.16	-1.97	110.19	122.2	12.01	
5855	92.52	-2.13	90.39	110.8	20.41	peak
5875	87.73	-2.65	85.08	105.2	20.12	peak
5925	54.22	-2.28	51.94	68.2	16.26	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5850	110.08	-1.97	108.11	122.2	14.09	
5855	92.77	-2.13	90.64	110.8	20.16	peak
5875	87.17	-2.65	84.52	105.2	20.68	peak
5925	54.75	-2.28	52.47	68.2	15.73	peak

Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.