

FCC Test Report

Test Report
On Behalf of
DEMOPAD SOFTWARE LIMITED
For

Digital Signage Player Model No.: DS-2

FCC ID: 2ATJU-DS2

Prepared For: DEMOPAD SOFTWARE LIMITED

Unit 3 The Hub, Commercial Road, Darwen, Lancashire, BB3 0FL, United

Kingdom

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

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Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test: Aug. 12, 2024 ~ Aug. 26, 2024

Date of Report: Aug. 26, 2024

Report Number: HK2408124571-5E



Test Result Certification

Applicant's Name DEMOPAD SOFTWARE LIMITED

Unit 3 The Hub, Commercial Road, Darwen, Lancashire, BB3

0FL, United Kingdom

Manufacturer's Name.....: DEMOPAD SOFTWARE LIMITED

Unit 3 The Hub, Commercial Road, Darwen, Lancashire, BB3

0FL, United Kingdom

Product Description

Trade Mark.....: Demopad

Product Name Digital Signage Player

Model and/or Type Reference: DS-2

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...... Aug. 12, 2024 ~ Aug. 26, 2024

Date of Issue Aug. 26, 2024

Test Result Pass

Testing Engineer

en lian

Len Liao

Technical Manager

y Whom

Sliver Wan

Authorized Signatory

Jason Whou

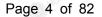
Jason Zhou



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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Aug. 26, 2024	Jason Zhou
(I)			(9)
-m/G	TNG.	TNG	

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1. Test Result Summary

1.1 Test Procedures and Results

CFR 47 Section	Result
§15.203	PASS
§15.207	PASS
§15.407(a)	PASS
§15.407(e)	PASS
§15.407(a)	N/A MAKTESTI
§15.407(a)	PASS
§15.407(b)/15.209/15.205	PASS
§15.407(b)/15.209/15.205	PASS
§15.407(g)	PASS
	§15.203 §15.207 §15.407(a) §15.407(e) §15.407(a) §15.407(b)/15.209/15.205 §15.407(b)/15.209/15.205

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 HUAK 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.

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1.3 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of

confidence of	f approximately	95 %.
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No.	Item	MU
_m G 1	Conducted Emission	±0.37dB
2	RF Power, Conducted	±3.35dB
3 (Spurious Emissions, Conducted	±2.20dB
4	All Emissions, Radiated(<1G)	±3.90dB
5	All Emissions, Radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%

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2. EUT Description

2.1 General Description of EUT

Equipment:	Digital Signage Player	
Model Name:	DS-2 HIMTES HIMTES	HUAKT
Serial Model:	N/A	
Model Difference:	N/A JARRES MISS MARKETS MARKETS MARKETS MISS MARKETS	AK TESTING
Trade Mark:	Demopad	HO.
FCC ID:	2ATJU-DS2	
Operation Frequency:	IEEE 802.11a/n/ac/ax (HT20)5.745GHz-5.825GHz IEEE 802.11n/ac/ax (HT40)5.755GHz-5.795GHz	HUAKTES
Modulation Technology:	IEEE 802.11a/n/ac/ax	
Modulation Type:	1024QAM, 256QAM, 64QAM,16QAM, QPSK, BPSK for	OFDM
Antenna Type:	External Antenna	
Antenna Gain:	4.66dBi	LAKTESTING
Power Source:	DC12V, 1.0A from adapter with AC100-240V, 50/60Hz	70
Power Supply:	DC12V, 1.0A from adapter with AC100-240V, 50/60Hz	"IAK TEST
Hardware Version:	V1.0	
Software Version:	V1.0	

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. Antenna gain Refer to the antenna specifications.
- 3. The cable loss data is obtained from the supplier.
- 4. The test results in the report only apply to the tested sample.



2.2 Operation Frequency Each of Channel

802.11	02.11n(HT20)/ ac(HT20)/ lax(HT20)	802.11	In(HT40)/ ac(HT40)/ ax(HT40)
Channel	Frequency	Channel	Frequency
149	5745	151	5755
153	5765	159	5790
157	5785	per :-	
161	5805		W TESTING
165	5825	CTMG (HOM

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

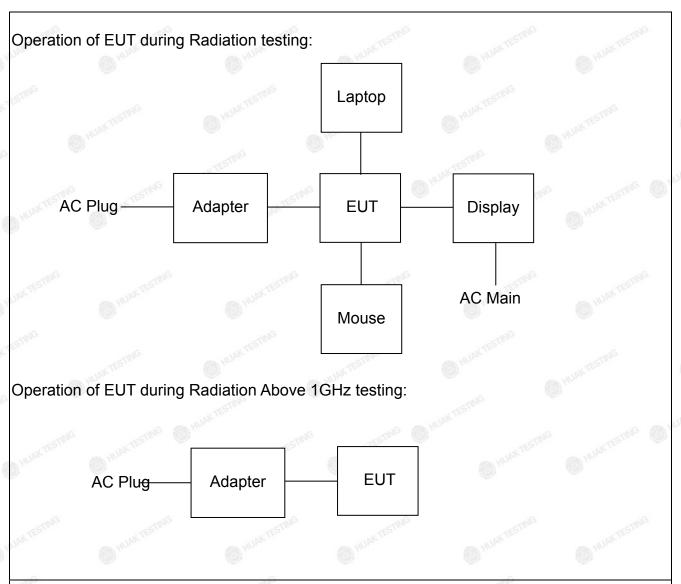
and IV (5725 - 5850 MHz	2)				
For 802.11a/n (HT20)/ac(HT20)/ ax(HT20)					
Channel Number Channel Frequency					
Low	5745				
Mid	5785				
High High	5825				
	1a/n (HT20)/ac(HT20)/ a Channel Low Mid				

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

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2.4 Description of Test Setup



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	Note
STITE	Digital Signage Player	Demopad	DS-2	N/A	EUT
2	Adapter	N/A	NBS12E120100UV	Input: AC100-240V, 50/60Hz, 0.3A Output: DC12V/1.0A, 12W	Accessory
3	Laptop	Lenovo	TP00096A	Input: DC 20V, 2.25~3.25A Output: 5VDC, 0.5A	Peripheral
4	Display	Philips	N/A	N/A	Peripheral
5	Mouse	N/A	N/A	N/A	Peripheral
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Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 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.

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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	NG	
	802.11n(HT20)	MCS0		
	802.11n(HT40)	MCS0	TING	
MAKTESTI	802.11ac(HT20)/ac(HT40)	MCS0	TED	
	802.11ax(HT20)/ax(HT40)	MCS0		

Final Test Mode:

Operation Mode: Keep the EUT in continuous transmitting with modulation

Mode Test Duty Cycle:

Mode	Duty Cycle	Duty Cycle Factor (dB)
802.11a	0.923	-0.349
802.11n(HT20)	0.922	-0.353
802.11n(HT40)	0.940	-0.267
802.11ac(HT20)	0.918	-0.372
802.11ac(HT40)	0.972	-0.123
802.11ax(HT20)	0.901	-0.452
802.11ax(HT40)	0.972	-0.123

Test plots as follows:

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802.11ax(HT40)



4. Test Results and Measurement Data

4.1 Conducted Emission

4.1.1. Test Specification

-400	TIME TO	NIC TO THE PERSON OF THE PERSO	No.					
Test Requirement:	FCC Part15 C Section	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013						
Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz						
Receiver Setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto						
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (c Quasi-peak 66 to 56* 56 60	Average 56 to 46* 46 50					
Test Setup:	Test table/Insulation plane Remark E.U.T Equipment Under Test LISN: Line Impedence Stabilization I Test table height=0.8m	Filter Filter Receiver	AC power					
Test Mode:	Transmitting with modu	ulation						
Test Procedure:	1. The E.U.T and simul power through a line (L.I.S.N.). This provid impedance for the magnetic power through a LIS coupling impedance refer to the block dial photographs). 3. Both sides of A.C. line conducted interference emission, the relative the interface cables ANSI C63.10: 2013	impedance stabil des a 500hm/50ul leasuring equipme es are also conner N that provides a with 500hm termingram of the test some are checked for executions of equipmest be changed	lization network H coupling ent. ected to the main 50ohm/50uH nation. (Please etup and r maximum d the maximum ipment and all of according to					
Test Result:	PASS	HUAKTEST	HUAKTESTI					



4.1.2. Test Instruments

ATTING YEAR TO SEE THE	A *	ATTEN PARTY	TRANSFER .	ADD 400 BB					
Conducted Emission Shielding Room Test Site (843)									
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due				
Receiver	R&S	ESR	HKE-005	Feb. 20, 2024	Feb. 19, 2025				
LISN	R&S	ENV216	HKE-002	Feb. 20, 2024	Feb. 19, 2025				
LISN	R&S	ENV216	HKE-059	Feb. 20, 2024	Feb. 19, 2025				
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 20, 2024	Feb. 19, 2025				
EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	N/A	N/A				
10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 20, 2024	Feb. 19, 2025				

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

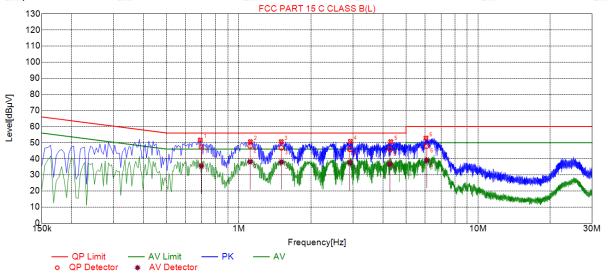
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4.1.3. Test data

All modes have been tested, only the worst result was reported as below:





	Sus	Suspected List											
	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре				
	1	0.6900	51.64	19.86	56.00	4.36	31.78	PK	L				
11000000	2	1.1175	50.62	19.89	56.00	5.38	30.73	PK	L				
	3	1.5045	50.66	19.92	56.00	5.34	30.74	PK	L				
	4	2.9265	50.81	20.04	56.00	5.19	30.77	PK	L				
5	5	4.3170	50.62	20.09	56.00	5.38	30.53	PK	L				
	,												

Final	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]	Туре
1	0.6969	19.86	47.33	56.00	8.67	27.47	35.49	46.00	10.51	15.63	L
2	1.1145	19.89	47.98	56.00	8.02	28.09	38.13	46.00	7.87	18.24	L
3	1.5059	19.92	46.77	56.00	9.23	26.85	37.94	46.00	8.06	18.02	L
4	2.9163	20.04	45.87	56.00	10.13	25.83	37.52	46.00	8.48	17.48	L
5	4.2816	20.09	45.90	56.00	10.10	25.81	36.68	46.00	9.32	16.59	L
6	6.1030	20.09	47.92	60.00	12.08	27.83	39.08	50.00	10.92	18.99	L

60.00

7.11

32.80

Remark: Margin = Limit - Level

6.0585

Correction factor = Cable lose + ISN insertion loss

52.89

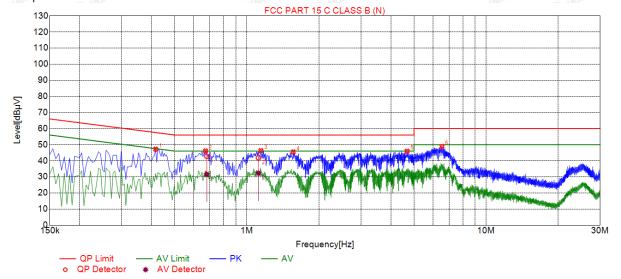
20.09

Level=Test receiver reading + correction factor

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Suspected List

NO.	Freq. [MHz]	Level [dBµ∀]	Factor [dB]	Limit [dBµ∀]	Margin [dB]	Reading [dBµ∀]	Detector	Туре
1	0.4155	47.22	19.73	57.54	10.32	27.49	PK	N
2	0.6720	46.14	19.74	56.00	9.86	26.40	PK	N
3	1.1445	46.31	19.77	56.00	9.69	26.54	PK	N
4	1.5630	45.53	19.80	56.00	10.47	25.73	PK	N
5	4.6770	45.98	19.99	56.00	10.02	25.99	PK	N
6	6.5400	48.91	19.97	60.00	11.09	28.94	PK	N

į	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]	Туре
5	1	0.6798	19.74	42.86	56.00	13.14	23.12	31.59	46.00	14.41	11.85	N
	2	1.1179	19.76	41.92	56.00	14.08	22.16	32.30	46.00	13.70	12.54	N

Remark: Margin = Limit - Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

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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)					
	5725-5850 1 W					
Test Setup:	Power meter EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a. 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. Set to the maximum power setting and enable the EUT transmit continuously. 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					

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4.2.2. Test Instruments

ADM AND	As a second	TO HUM	All his	HUM	He
		RF To	est Room		
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025
Power meter	Agilent	E4419B	HKE-085	Feb. 20, 2024	Feb. 19, 2025
Power Sensor	Agilent	E9300A	HKE-086	Feb. 20, 2024	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025
RF Test Software	Tonscend	JS1120-3 Version 3.3.23	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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Test Data

Conf	Configuration Band IV (5745 - 5825 MHz)								
Mode	Test channel	Maximum Conducted Output Power (dBm)	FCC Limit (dBm)	Result					
802.11a	CH149	6.58	30	PASS					
802.11a	CH157	6.72	30	PASS					
802.11a	CH165	6.26	30	PASS					
802.11n(HT20)	CH149	6.61	30	PASS					
802.11n(HT20)	CH157	6.65	30	PASS					
802.11n(HT20)	CH165	6.20	30	PASS					
802.11n(HT40)	CH151	8.18	30	PASS					
802.11n(HT40)	CH159	6.51	30	PASS					
802.11ac(HT20)	CH149	8.09	30	PASS					
802.11ac(HT20)	CH157	6.54	30	PASS					
802.11ac(HT20)	CH165	6.33	30	PASS					
802.11ac(HT40)	CH151	7.91	30	PASS					
802.11ac(HT40)	CH159	6.52	30	PASS					
802.11ax(HT20)	CH149	8.09	30	PASS					
802.11ax(HT20)	CH157	6.69	30	PASS					
802.11ax(HT20)	CH165	6.43	30	PASS					
802.11ax(HT40)	CH151	8.11	30	PASS					
802.11ax(HT40)	CH159	6.77	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:	 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C. Set to the maximum power setting and enable the EUT transmit continuously. 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. Measure and record the results in the test report.
Test Result:	PASS THE PAS

4.3.2. Test Instruments

	RF Test Room									
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due					
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025					
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025					
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025					
RF Test Software	Tonscend	JS1120-3 Version 3.3.23	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

Band IV (5745 - 5825 MHz)						
Test channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result		
CH149	5745	16.360	0.5	PASS		
CH157	5785	16.360	0.5	PASS		
CH165	5825	16.320	0.5	PASS		
CH149	5745	17.560	0.5	PASS		
CH157	5785	17.560	0.5	PASS		
CH165	5825	17.600	0.5	PASS		
CH151	5755	36.320	0.5	PASS		
CH159	5795	36.320	0.5	PASS		
CH149	5745	17.560	0.5	PASS		
CH157	5785	17.560	0.5	PASS		
CH165	5825	17.560	0.5	PASS		
CH151	5755	36.080	0.5	PASS		
CH159	5795	36.320	0.5	PASS		
CH149	5745	19.040	0.5	PASS		
CH157	5785	19.000	0.5	PASS		
CH165	5825	19.040	0.5	PASS		
CH151	5755	37.920	0.5	PASS		
CH159	5795	38.000	0.5	PASS		
	CH149 CH157 CH165 CH165 CH165 CH157 CH165 CH151 CH159 CH165 CH151 CH157 CH165 CH151 CH159 CH151 CH159 CH149 CH157 CH165 CH151	Test channel Frequency (MHz) CH149 5745 CH157 5785 CH165 5825 CH149 5745 CH157 5785 CH165 5825 CH151 5755 CH159 5795 CH165 5825 CH151 5755 CH159 5795 CH159 5795 CH159 5795 CH149 5745 CH159 5795 CH149 5745 CH159 5795 CH149 5745 CH159 5795 CH149 5745 CH157 5785 CH157 5785 CH157 5785 CH157 5785 CH157 5785 CH165 5825 CH151 5755	Test channel Frequency (MHz) 6 dB Bandwidth (MHz) CH149 5745 16.360 CH157 5785 16.360 CH165 5825 16.320 CH149 5745 17.560 CH157 5785 17.560 CH165 5825 17.600 CH151 5755 36.320 CH159 5795 36.320 CH157 5785 17.560 CH157 5785 17.560 CH151 5755 36.080 CH159 5795 36.320 CH149 5745 19.040 CH157 5785 19.040 CH157 5785 19.040 CH151 5755 37.920	Test channel Frequency (MHz) 6 dB Bandwidth (MHz) Limit (MHz) CH149 5745 16.360 0.5 CH157 5785 16.360 0.5 CH165 5825 16.320 0.5 CH149 5745 17.560 0.5 CH157 5785 17.560 0.5 CH165 5825 17.600 0.5 CH151 5755 36.320 0.5 CH159 5795 36.320 0.5 CH149 5745 17.560 0.5 CH157 5785 17.560 0.5 CH165 5825 17.560 0.5 CH151 5755 36.080 0.5 CH159 5795 36.320 0.5 CH159 5795 36.320 0.5 CH159 5795 36.320 0.5 CH159 5795 36.320 0.5 CH157 5785 19.040 0.5 CH165 <t< td=""></t<>		

Test plots as follows:





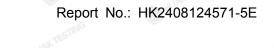






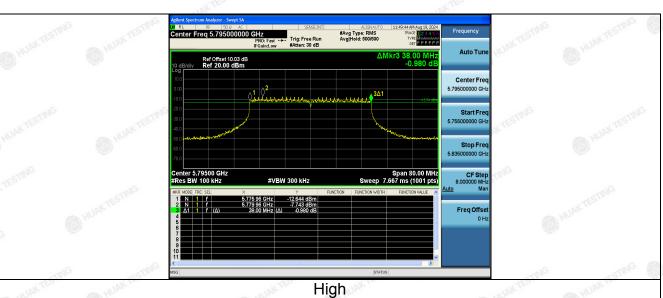
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

High











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:	 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth RBW = 1% EBW, VBW≥3RBW, In order to make an accurate measurement. Measure and record the results in the test report. 					
Test Result:	N/A VTESTING					

4.4.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025		
RF cable	Times	5 1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025		
RF Test Software	Tonscend	JS1120-3 Version 3.3.23	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

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

