

# **FCC Test Report**

Test report
On Behalf of
Shenzhen Shire Star Electronic Technology Co., Ltd.
For
Camera
Model No.: A4, A4-A, A4-B, A4-C, A4-D

FCC ID: 2BFCX-A4

Prepared For: Shenzhen Shire Star Electronic Technology Co., Ltd.

2nd Floor, Building F, Guanghao Industrial Park, Yunfeng Road, Longhua

District, Shenzhen, China

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

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

Date of Test: Nov. 19, 2024 ~ Nov. 28, 2024

Date of Report: Nov. 28, 2024

Report Number: HK2411196964-E



**Test Result Certification** 

Applicant's name ....... Shenzhen Shire Star Electronic Technology Co., Ltd.

2nd Floor, Building F, Guanghao Industrial Park, Yunfeng Road,

Longhua District, Shenzhen, China

Manufacturer's Name ........... Shenzhen Shire Star Electronic Technology Co., Ltd.

2nd Floor, Building F, Guanghao Industrial Park, Yunfeng Road,

Longhua District, Shenzhen, China

**Product description** 

Trade Mark ..... N/A

Product name.....: Camera

Model and/or type reference...: A4, A4-A, A4-B, A4-C, A4-D

FCC Rules and Regulations Part 15 Subpart C Section 15.247

ANSI C63.10: 2013

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Date of Test .....

Date of Issue...... Nov. 28, 2024

Test Result..... Pass

Testing Engineer

en lian

(Len Liao)

**Technical Manager** 

Wan

(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	Nov. 28, 2024	Jason Zhou
nG.	mG mG	m/G	3

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### 1. Test Result Summary

#### 1.1. Test Procedures and Results

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247(b)(4)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247(b)(3)	PASS
6dB Emission Bandwidth	§15.247(a)(2)	PASS
Power Spectral Density	§15.247(e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	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 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 approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.71dB
2	RF power, conducted	±0.37dB
3	Spurious emissions, conducted	±0.11dB
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:	Camera
Model Name:	A4
Series Model:	A4-A, A4-B, A4-C, A4-D
Model Difference:	All model's the function, software and electric circuit are the same, only with model named different. Test sample model: A4.
FCC ID:	2BFCX-A4
Antenna Type:	External Antenna
Antenna Gain:	4.25dBi
Operation frequency:	802.11b/g/n (HT20):2412~2462 MHz 802.11 (HT40):2422~2452 MHz
Number of Channels:	802.11b/g/n(HT20): 11CH 802.11 (HT40): 7CH
Modulation Type:	DSSS, OFDM
Power Source:	5VDC, 1A
Power Rating:	5VDC, 1A
Hardware Version:	V8.0
Software Version:	V8.0

#### 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. Carrier Frequency of Channels

	Channel List For 802.11b/802.11g/802.11n (HT20)						
					Frequency (MHz)		
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452	-STING	

Channel List For 802.11n (HT40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
STING	KTESTING	04	2427	07	2442	- TESTINI	NTE
@ H		05	2432	08	2447	HUAN.	AD.
03	2422	06	2437	09	2452		

#### 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

**Operating Mode** 

The mode is used: Transmitting mode for 802.11b/802.11g/802.11n (HT20)

Low Channel: 2412MHz Middle Channel: 2437MHz High Channel: 2462MHz

The mode is used: Transmitting mode for 802.11n (HT40)

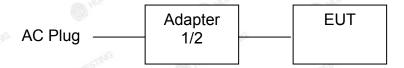
Low Channel: 2422MHz Middle Channel: 2437MHz High Channel: 2452MHz

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#### 2.4. Description of Test Setup

Operation of EUT during radiation testing and 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	Camera	N/A	A4	N/A	EUT
2	Adapter 1	N/A	HW-100225C00	Input: AC100-240V, 50/60Hz, 0.75A Output: 5V 2A	Peripheral
3	Adapter 2	N/A	MDY-10-EH	Input: 100-240VAC, 50/60Hz, 0.7A Output: 5V 3A/9V 3A/12V 2.25A/20V 1.35A	Peripheral
,	9		-		9

#### 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.



### 3. Genera Information

#### 3.1. Test Environment and Mode

25.0 °C
56 % RH
1010 mbar
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
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	6.5Mbps
802.11n(HT40)	13.5Mbps

#### **Final Test Mode:**

Operation mode:	Keep the EUT in continuous transmitting with modulation
-----------------	---

- 1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.
- 2.According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(HT20), 13.5Mbps for 802.11n(HT40).

#### 3. Mode Test Duty Cycle

Mode	Duty Cycle	Duty Cycle Factor (dB)
802.11b	0.92	-0.37
802.11g	0.92	-0.37
802.11n(HT20)	0.92	-0.37
802.11n(HT40)	0.92	-0.37

Test plots as follows:

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### 4. Test Results and Measurement Data

### 4.1. Conducted Emission

#### **Test Specification**

TING	TING	TING	TING	-711			
Test Requirement:	FCC Part15 C Secti	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013					
Frequency Range:	150 kHz to 30 MHz	MUAK TE	, nx TF	STING			
Receiver setup:	RBW=9 kHz, VBW=	30 kHz, Sweep	time=auto				
	Frequency range (MHz)	Limit (c	3/11/2	TESTING			
Limits:	0.15-0.5	66 to 56*	Average 56 to 46*	Alk.			
	0.5-5	56	46				
	5-30	60	50	]			
	"IAKTESTING" (AK	(ESTING	IK TESTING	AK TESTA			
	Refe	rence Plane					
	40cr	n					
	M. Tes		1				
	E.U.T AC	ower 80cm LISN	J				
Test Setup:	NG .						
	Test table/Insulation p	olane					
		EMI					
	Remark: E.U.T: Equipment Under Test	Receiver					
	LISN: Line Impedence Stabiliza Test table height=0.8m	uon neuvork					
Test Mode:	transmitting with mo	dulation	AK TESTING	LAKTESTIN			
	1. The E.U.T is con	nected to the m	ain power thro	ough a			
	line impedance s						
		provides a 50ohm/50uH coupling impedance for the					
	measuring equipr	measuring equipment.					
	2. The peripheral devices are also connected to the main						
	power through a	1000					
Test Procedure:		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						
	A CONTRACTOR OF THE PROPERTY O	the interface cables must be changed according to					
	ANSI C63.10: 20 <sup>-</sup>		ACTUAL CO.	_			
Test Result:	PASS	-4TE	TING	-0-			
ale V	The state of the s	MALE STATE		TOLO			

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#### **Test Instruments**

Conducted Emission Shielding Room Test Site (843)						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Receiver	R&S	ESR	HKE-005	Feb. 19, 2025		
LISN	R&S	ENV216	HKE-002	Feb. 19, 2025		
LISN	R&S	ENV216	HKE-059	Feb. 19, 2025		
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 19, 2025		
EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	N/A TESTING		

**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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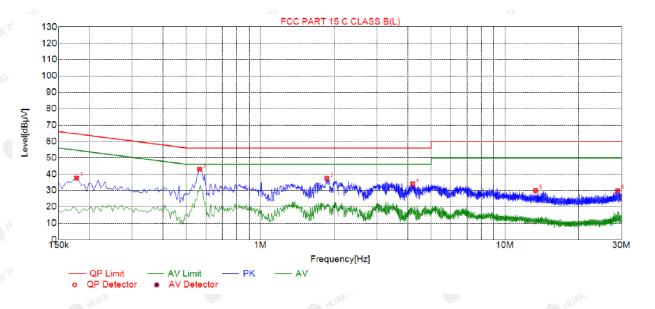
#### 4.2. Test Result

Remark: All the test modes completed for test. only the worst result

Report No.: HK2411196964-E

# Of was reported as below: Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)

Test Specification: Line



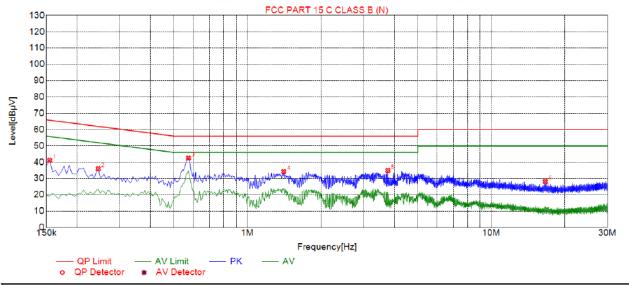
Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
1	0.1770	37.56	19.85	64.63	27.07	17.71	PK	L
2	0.5640	42.99	19.86	56.00	13.01	23.13	PK	L
3	1.8690	37.35	19.96	56.00	18.65	17.39	PK	L
4	4.1910	34.08	20.09	56.00	21.92	13.99	PK	L
5	13.3440	29.99	19.83	60.00	30.01	10.16	PK	L
6	28.8870	29.83	20.24	60.00	30.17	9.59	PK	L

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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#### Test Specification: Neutral



#### Suspected List Reading Factor Limit Margin Freq. Level NO. Detector Type [dBµV] [MHz] [dBµV] [dB] [dBµV] [dB] 24.58 PK 0.1545 41.17 19.73 65.75 21.44 N 2 0.2445 35.99 19.73 61.94 25.95 16.26 PK N 3 0.5730 42.54 19.74 56.00 22.80 PK 13.46 N 4 1.4100 34.24 19.79 56.00 21.76 14.45 PK N 5 3.7680 34.89 56.00 14.92 PK 19.97 21.11 Ν 6 16.6560 28.09 19.85 60.00 31.91 8.24 PK N

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

### 4.3. Maximum Conducted Output Power

### **Test Specification**

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02
Limit:	30dBm
Test Setup:	RF automatic control unit EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>The testing follows the Measurement Procedure of FCC KDB 558074 D01 15.247 Meas Guidance v05r02.</li> <li>The RF output of EUT was connected to the RF automatic control unit by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Measure the Peak output power and record the results in the test report.</li> </ol>
Test Result:	PASS COUNTY TO THE PASS COUNTY T

#### **Test Instruments**

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025		
Power meter	Agilent	E4419B	HKE-085	Feb. 19, 2025		
Power Sensor	Agilent	E9300A	HKE-086	Feb. 19, 2025		
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025		
RF Test Software	Tonscend	JS1120-3 Version 3.3.23	HKE-083	N/A MA		

**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**

Test Channel	Frequency	Maximum Peak Conducted Output Power	LIMIT
3.13.11.01	(MHz)	(dBm)	dBm
CH01	2412	12.25	30
CH06	2437	12.30	30
CH11	2462	11.87	30
CH01	2412	12.11	30
CH06	2437	11.78	30
CH11	2462	11.79	30
CH01	2412	13.15	<sup>©</sup> 30
CH06	2437	13.02	30
CH11	2462	12.92	30
CH03	2422	12.49	30
CH06	2437	12.40	30
CH09	2452	12.59	30
	Channel  CH01  CH06  CH11  CH06  CH11  CH01  CH06  CH11  CH06  CH11  CH06  CH16	Channel (MHz)  CH01 2412  CH06 2437  CH11 2462  CH01 2412  CH06 2437  CH11 2462  CH01 2412  CH06 2437  CH11 2462  CH06 2437  CH11 2462  CH06 2437	Test ChannelFrequency Conducted Output Power(MHz)(dBm)CH01241212.25CH06243712.30CH11246211.87CH01241212.11CH06243711.78CH11246211.79CH01241213.15CH06243713.02CH11246212.92CH03242212.49CH06243712.40

Note: 1.The test results including the cable lose.



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### 4.4. Emission Bandwidth

### **Test Specification**

Test Requirement:	FCC Part15 C Section 15	FCC Part15 C Section 15.247 (a)(2)					
Test Method:	KDB 558074 D01 15.247	KDB 558074 D01 15.247 Meas Guidance v05r02					
Limit:	>500kHz	OK TESTING					
Test Setup:	Spectrum Analyzer	EUT WILL TESTING					
Test Mode:	Transmitting mode with m	Transmitting mode with modulation					
Test Procedure:	<ol> <li>The testing follows FCC KDB Publication 558074 DO 15.247 Meas Guidance v05r02.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to mak an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.</li> <li>Measure and record the results in the test report.</li> </ol>						
Test Result:	PASS	O HILL					

#### **Test Instruments**

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025		
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025		
RF Test Software	Tonscend	JS1120-3 Version 3.3.23	HKE-083	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

475	437	4.17	47/2	4.17	
Test channel	6dB Emission Bandwidth (MHz)				
rest channel	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	
Lowest	8.040	16.400	17.600	36.320	
Middle	8.080	16.320	17.600	36.080	
Highest	8.520	16.360	17.600	35.920	
Limit:	>500kHz				
Test Result:	PASS				

Test plots as follows:

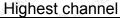
#### 802.11b Modulation

#### Lowest channel



#### Middle channel







#### 802.11g Modulation

#### Lowest channel





#### Middle channel



#### Highest channel



#### 802.11n (HT20) Modulation

#### Lowest channel



#### Middle channel



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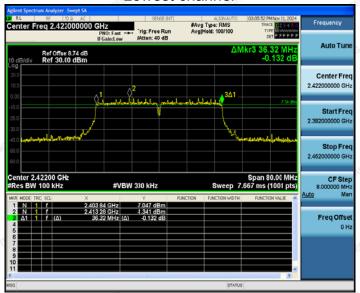




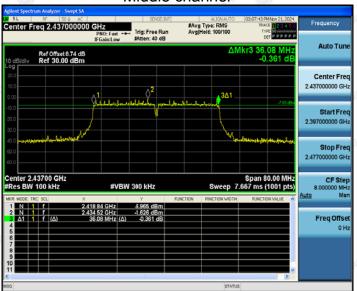


#### 802.11n (HT20) Modulation

#### Lowest channel

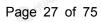


#### Middle channel



#### Highest channel







### 4.5. Power Spectral Density

### **Test Specification**

Test Requirement:	FCC Part15 C Section 15.247 (e)					
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02					
Limit:	The average power spectral density shall not be greate than 8dBm in any 3kHz band at any time interval ocontinuous transmission.					
Test Setup:	Spectrum Analyzer EUI					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	<ol> <li>The testing follows Measurement procedure 10.2 method PKPSD of FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02.</li> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW.</li> <li>Detector = Peak, Sweep time = auto couple.</li> <li>Employ trace averaging (Peak) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level.</li> <li>Measure and record the results in the test report.</li> </ol>					
Test Result:	PASS					

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#### Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025		
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025		
RF Test Software	Tonscend	JS1120-3 Version 3.3.23	HKE-083	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

EUT Set Mode	Channel	Test Result (dBm/30kHz)	Result (dBm/3kHz)
	Lowest	-0.73	-10.73
802.11b	Middle	-0.45	-10.45
	Highest	-0.92	-10.92
	Lowest	-3.45	-13.45
802.11g	Middle	-3.69	-13.69
	Highest	-4.19	-14.19
	Lowest	-2.57	-12.57
802.11n(H20)	Middle	-2.46	-12.46
	Highest	-2.33	-12.33
	Lowest	-4.46	-14.46
802.11n(H40)	Middle	-4.79	-14.79
	Highest	-5.55	-15.55
PSD test result (dE	3m/3kHz)= PSD	test result (dBm/30k	Hz)-10
Limit: 8dBm/3kHz			
Test Result:	Pre-	PASS	-m/G
11.11	TE5	1 10	162. A

#### Test plots as follows:

AL

#### 802.11b Modulation

#### Lowest channel



#### Middle channel



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

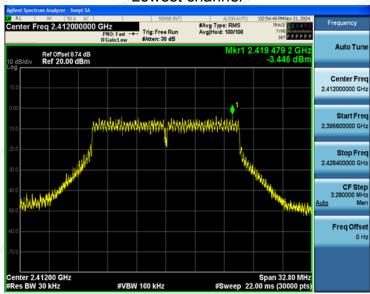






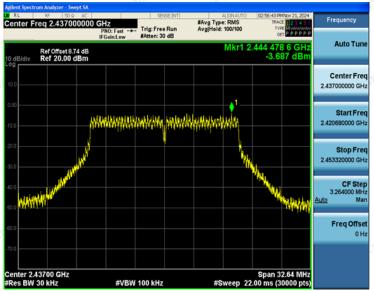
#### 802.11g Modulation

#### Lowest channel

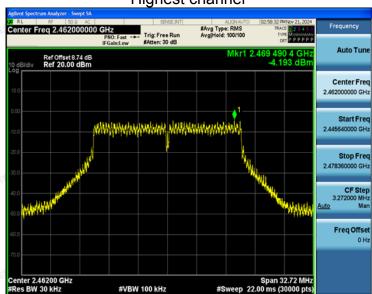




#### Middle channel



Highest channel





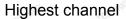
#### 802.11n (HT20) Modulation

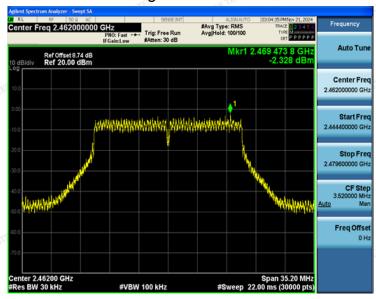
#### Lowest channel



Middle channel

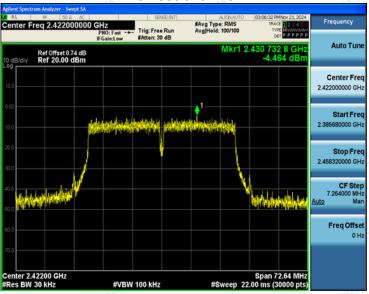


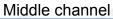


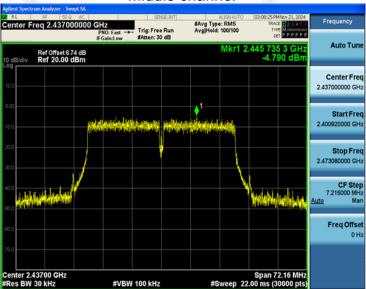


#### 802.11n (HT40) Modulation

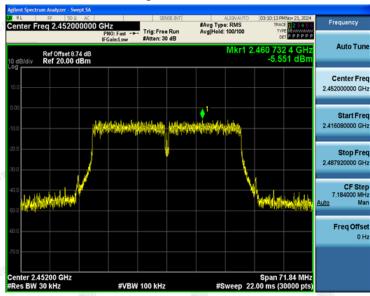
#### Lowest channel







#### Highest channel



### 4.6. Conducted Band Edge and Spurious Emission Measurement

### **Test Specification**

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02				
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).				
Test Setup:	Spectrum Analyzer EUT				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	<ol> <li>Transmitting mode with modulation</li> <li>The testing follows FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02.</li> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).</li> <li>Measure and record the results in the test report.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol>				
Test Result:	PASS O MUNICIPAL TO THE PASS				





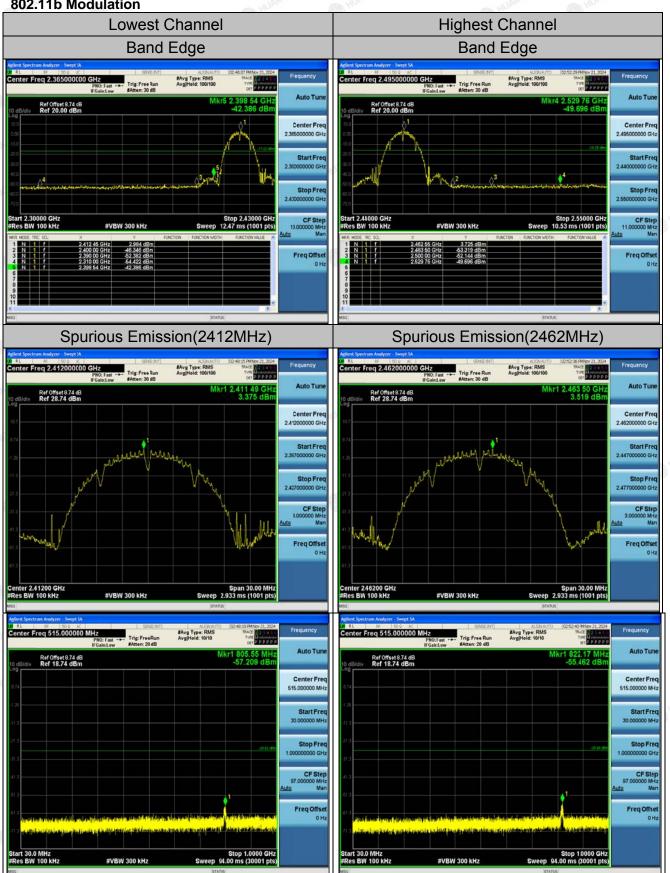
#### **Test Instruments**

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 19, 2025	
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Feb. 19, 2025	
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	
RF test software	Tonscend	JS1120-B Version 2.6	HKE-083	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** 802.11b Modulation



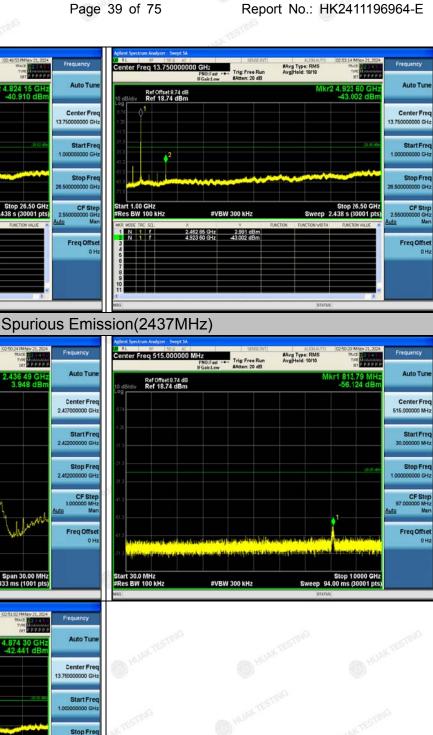
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Ref Offset 8.74 dB Ref 18.74 dBm

Ref Offset 8.74 dB Ref 28.74 dBm

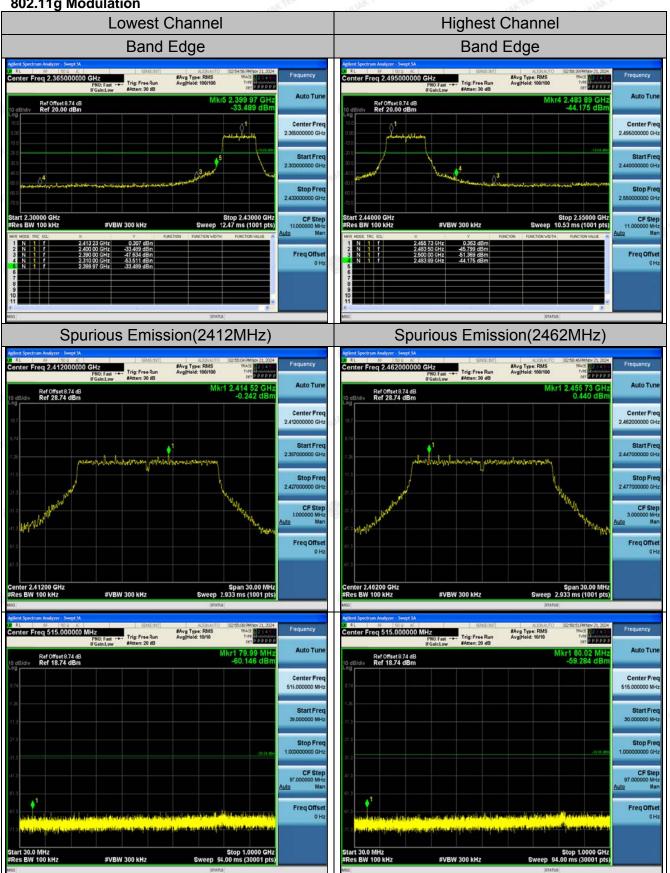
#Avg Type: RMS Avg|Hold: 10/10

#Avg Type: RMS Avg|Hold: 100/100





802.11g Modulation



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