

FCC TEST REPORT

Test report
On Behalf of
Shenzhen Joystek Intelligence Co., Ltd
For

baby monitor
Model No.: Baby 5SM, Baby 1SM, Baby 2SM, Baby 3SM, Baby 4SM, Baby 6SM, Baby 7SM, Baby 8SM, Baby 1TM, Baby 2TM, Baby 3TM, Baby 4TM, Baby 5TM, Baby 6TM, Baby 7TM, Baby 8TM

FCC ID: 2AUSP-BABY5SM

Prepared For: Shenzhen Joystek Intelligence Co., Ltd

3F, Building A Plus, Shun Xing Industrial Park, Zhongxing Rd., Bantian, Longgang

District, Shenzhen, 518129 China

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

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Date of Test: Sept. 19, 2022 ~ Dec. 02, 2022

Date of Report: Dec. 02, 2022

Report Number: HK2209194177-1E



TEST RESULT CERTIFICATION

Applicant's name	Shenzhen	Jovstek	Intelligence	Co	Ltd

3F, Building A Plus, Shun Xing Industrial Park, Zhongxing Rd.,

Bantian, Longgang District, Shenzhen, 518129 China

Manufacture's Name...... Shenzhen Joystek Intelligence Co., Ltd

Address . 3F, Building A Plus, Shun Xing Industrial Park, Zhongxing Rd.,

Bantian, Longgang District, Shenzhen, 518129 China

Product description

Trade Mark: N/A

Product name.....: baby monitor

Baby 5SM, Baby 1SM, Baby 2SM, Baby 3SM, Baby 4SM, Baby

Report No.: HK2209194177-1E

Model and/or type reference .: 6SM, Baby 7SM, Baby 8SM, Baby 1TM, Baby 2TM, Baby 3TM,

Baby 4TM, Baby 5TM, Baby 6TM, Baby 7TM, Baby 8TM

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 Dec. 02, 2022

Test Result..... Pass

Testing Engineer

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory:

(Jason Zhou)



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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0 Initial Test Report Release		Dec. 02, 2022	Jason Zhou
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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:	baby monitor	HUAY TESTING	HUAKTESTING
Model Name:	Baby 5SM	TESTING	
Series Models:	Baby 1SM, Baby 2SM, Balby 7SM, Baby 8SM, Balby 4TM, Baby 5TM, Bab	aby 1TM, Baby 2TM	l, Baby 3TM,
Model Difference:	All model's the function, so same, only with a product of Test sample model: Baby 5	color and model nan	
FCC ID:	2AUSP-BABY5SM		
Antenna Type:	Internal Antenna	AK TESTING	OK TESTIN
Antenna Gain:	1.36dBi	1 mo	0,00
Operation frequency:	802.11b/g/n 20:2412~2462 802.11n 40: 2422~2452MF		LAKTESTING
Number of Channels:	802.11b/g/n20: 11CH 802.11n 40: 7CH	ak TESTING	
Modulation Type:	CCK/OFDM/DBPSK/DAPS	SK CTESTING	
Power Source:	DC 5V from adapter	Mary Harry	0
Power Rating:	DC 5V from adapter	m ^G	Var.

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2.2. CARRIER FREQUENCY OF CHANNELS

Channel List For 802.11b/802.11g/802.11n (HT20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	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	

O HOM	Channel List For 802.11n (HT40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
ESTING	X TESTING	04	2427	07	2442	TESTIN	XTES	
(D) H		05	2432	08	2447	HUAK	CO HOM	
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)

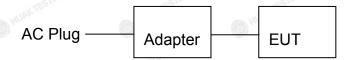
Low Channel: 2422MHz Middle Channel: 2437MHz High Channel: 2452MHz

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2.4. DESCRIPTION OF TEST SETUP

Operation of EUT during testing:



Adapter information

Model: TPA-46B050100UU Input: 100-240V 50/60Hz 0.2A

Output: 5.0V 1000mA

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

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3. ENERA INFORMATION

3.1. TEST ENVIRONMENT AND MODE

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
est Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)

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. For the full battery state and The output power to the maximum state.

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.

STING	Mode	Data rate	
	802.11b	1Mbps	(HUAN
à	802.11g	6Mbps	
	802.11n(H20)	6.5Mbps	ESTING
W H	802.11n(H40)	13.5Mbps	HUAN
			(0.00)

Final Test Mode:

Operation mode:	Keep the EUT in o	continuous tra	ansmitting
Operation mode:	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(H20), 13.5Mbps for 802.11(H40). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.



3.2. DESCRIPTION OF SUPPORT UNITS

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

Equipment	Model No.	Serial No.	FCC ID	Trade Name
(NG /	IG I HURK TESTI	I STING	I HUAY TESTIN	1 STING

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.

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4. TEST RESULTS AND MEASUREMENT DATA

4.1. CONDUCTED EMISSION

Test Specification

TING TING	- TING	TING	TING				
Test Requirement:	FCC Part15 C Secti	on 15.207	AKTES HUAKTE				
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=	RBW=9 kHz, VBW=30 kHz, Sweep time=auto					
Limits:	Frequency range (MHz) Limit (dBuV) 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50						
Test Setup:	Test table/Insulation Remark E.U.T AC Test table/Insulation	Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line impedence Stabilization Network					
Test Mode:	Charging + transmit	Charging + transmitting with modulation					
Test Procedure:	provides a 50ohr measuring equiproperation 2. The peripheral despower through a coupling impedar refer to the bloophotographs). 3. Both sides of Acconducted interferents.	stabilization netwon/50uH couplingment. evices are also conceed that province with 50ohm colors are charged. C. line are charged. It is a charged to the colors of oles must be charged.	work (L.I.S.N.). The impedance for the onnected to the maides a 500hm/50u termination. (Pleasthe test setup are ecked for maximulation find the maximulation anged according				
Test Result:	PASS	0,,,	(a)				
10-	All Walls		ATTACK TO THE PROPERTY OF THE				

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Test Instruments

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

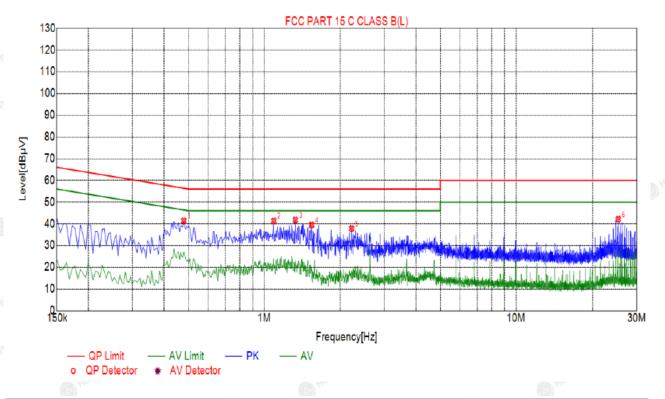
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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4.2. TEST RESULT

Test Specification: Line

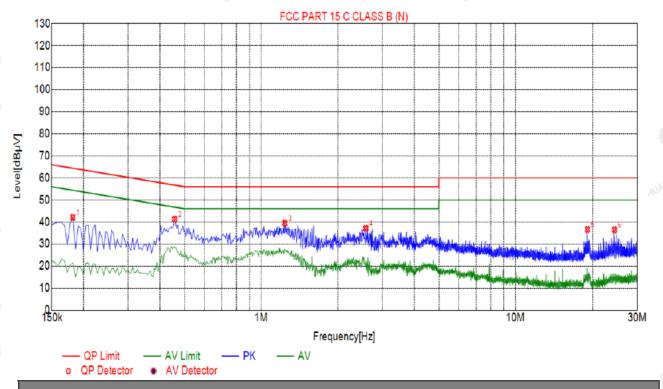


Sus	Suspected List									
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре		
1	0.4785	41.42	20.04	56.37	14.95	21.38	PK	L		
2	1.0905	41.32	20.07	56.00	14.68	21.25	PK	L		
3	1.3290	41.75	20.10	56.00	14.25	21.65	PK	L		
4	1.5405	39.41	20.11	56.00	16.59	19.30	PK	L		
5	2.2245	37.76	20.17	56.00	18.24	17.59	PK	L		
6	25.2870	42.09	20.25	60.00	17.91	21.84	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

Туре
4
N
N
N
N
N
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	O HOME	MONTH HOME		
Limit:	30dBm	OK TESTING	فالم		
Test Setup:	Power meter	EUT	MURK TESTING		
Test Mode:	Transmitting mode with n	nodulation			
Test Procedure:	 The testing follows the FCC KDB 558074 D0 v05r02. The RF output of EUT meter by RF cable an compensated to the result of the result of the result of the result of the maximum possible. Set to the maximum possible to the maximum possible to the maximum possible. Measure the Peak output in the test report. 	was connected to d attenuator. The esults for each me ower setting and e	o the power path loss was easurement. enable the		
Test Result:	PASS	O HOM	0 "		

Test Instruments

ATTE. YOU	No.	W Mr.	ATTAL PARTY	William KAY	Alle Pro	
RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023	
Power meter	Agilent	E4419B	HKE-085	Feb. 18, 2022	Feb. 17, 2023	
Power Sensor	Agilent	E9300A	HKE-086	Feb. 18, 2022	Feb. 17, 2023	
RF cable	Times	1-40G	HKE-034	Feb. 18, 2022	Feb. 17, 2023	
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023	

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

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Test Data

- TINE	TING	TIME TIME	TOP TOP
KTES.	HUAK TES.	TX 802.11b Mode	HUAKTES!
Test	Frequency	Maximum Peak Conducted Output Power	LIMIT
Channel	(MHz)	(dBm)	dBm
CH01	2412	18.16	30
CH06	2437	17.17 MARKETES IN	30
CH11	2462	17.17	30 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		TX 802.11g Mode	
CH01	2412	16.99	30
CH06	2437	17.08	JUAN TEST
CH11	2462	17.09	30
	TESTING	TX 802.11n20 Mode	TESTING
CH01	2412	17.69	30
CH06	2437	15.97	30
CH11	2462	15.74	30
		TX 802.11n40 Mode	9
CH03	2422	16.83	30
CH06	2437	13.45	30 HUANTED
CH09	2452	17.87	30

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Report No.: HK2209194177-1E



4.4. EMISSION BANDWIDTH

Test Specification

Test Requirement:	FCC Part15 C Section 1	FCC Part15 C Section 15.247 (a)(2)			
Test Method:	KDB 558074	O HOS	(HONO		
Limit:	>500kHz	LAKTESTING	"NG		
Test Setup:	Spectrum Analyzer	EUT	HUAN TESTING		
Test Mode:	Transmitting mode with	modulation			
Test Procedure:	 The testing follows FCC KDB Publication 558074 DO 15.247 Meas Guidance v05r02. 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	O HUM	1		

Test Instruments

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

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

AFICATION.



Test data

Toot shannel	6dB Emission Bandwidth (MHz)						
Test channel	802.11b	802.11g	802.11n(H20)	802.11n(H40)			
Lowest	9.52	16.28	17.00	35.04			
Middle	9.04	16.28	16.52	35.28			
Highest	9.08	16.32	16.92	35.04			
Limit:	3 MAKTES.		>500k	- G (M)			
Test Result:	LDK.	TESTING WUAKTESTI	PASS	TIME WAY TESTING			

Test plots as follows:

802.11b Modulation

Lowest channel



Middle channel



Highest channel



802.11g Modulation

Lowest channel



Middle channel



Highest channel





802.11n (HT20) Modulation

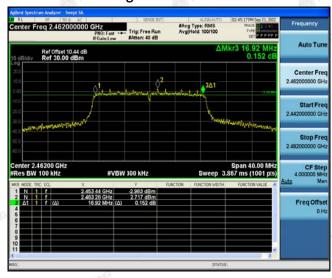
Lowest channel



Middle channel



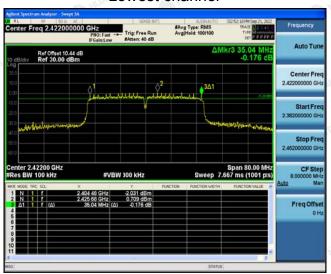
Highest channel





802.11n (HT40) Modulation

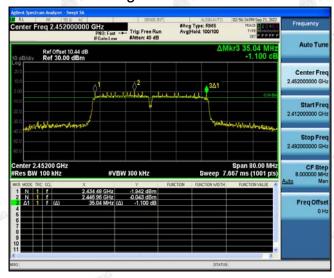
Lowest channel



Middle channel



Highest channel



4.5. POWER SPECTRAL DENSITY

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)				
Test Method:	KDB 558074				
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.				
Test Setup:	Spectrum Analyzer EUI				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 The testing follows Measurement procedure 10.2 method PKPSD of FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. 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. Set to the maximum power setting and enable the EUT transmit continuously. 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. Detector = Peak, Sweep time = auto couple. Employ trace averaging (Peak) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 				
Test Result:	PASS WAR TO THE THE STATE OF TH				

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Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Feb. 18, 2022	Feb. 17, 2023
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023
RF test software	Tonscend	JS1120-B Version 2.6	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).



Test data

EUT Set Mode	Channel	Result (dBm/30kHz)	Result (dBm/3kHz)
802.11b	Lowest	5.37	-4.63
	Middle	4.24	-5.76
	Highest	3.86	-6.14
802.11g	Lowest	-0.64	-10.64
	Middle	-0.35	-10.35
	Highest	-1.31	-11.31
802.11n(H20)	Lowest	-2.1	-12.1
	Middle	-1.87	-11.87
	Highest	-1.91	-11.91
802.11n(H40)	Lowest	-3.49	-13.49
	Middle	-3.96	-13.96
	Highest	-4.28	-14.28
PSD test result (dBm/3k	Hz)= PSD test res	sult (dBm/30kHz)-10	
Limit: 8dBm/3kHz			
Test Result:	PASS		
×41. A	7	1/4-	211/2

Test plots as follows:



802.11b Modulation

Lowest channel



Middle channel

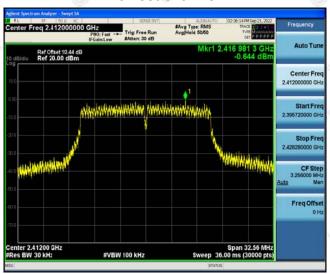


Highest channel

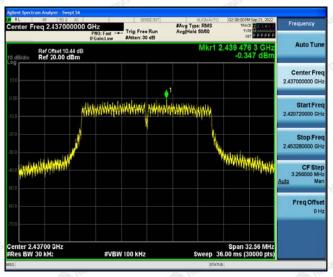


802.11g Modulation

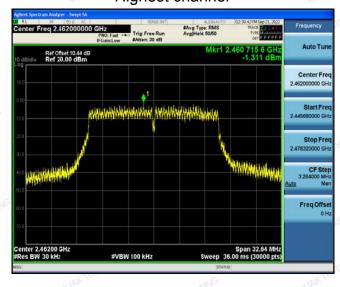
Lowest channel



Middle channel

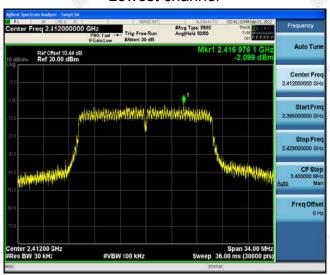


Highest channel



802.11n (HT20) Modulation

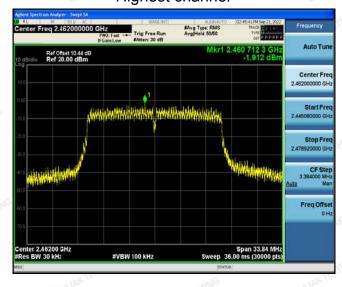
Lowest channel



Middle channel



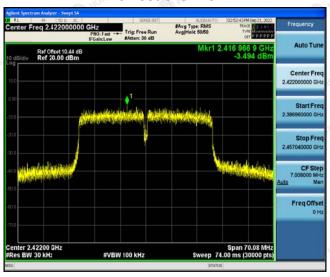
Highest channel



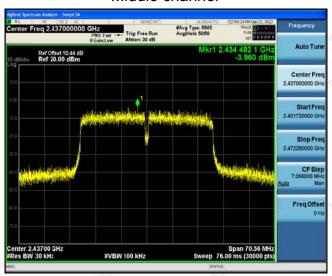
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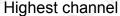
802.11n (HT40) Modulation

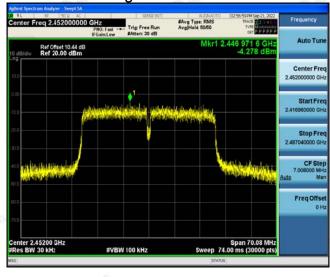
Lowest channel



Middle channel







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