



FCC TEST REPORT

Test report
On Behalf of
SHENZHEN JUSHENGTIMES ELECTRONICS CO., LTD.
For
Car DVR
Model No.: 323

FCC ID: 2AS7I-323

Prepared for : SHENZHEN JUSHENGTIMES ELECTRONICS CO., LTD.
Floor 4, Building 8, Hua Feng Industrial Area, TangWei, FuYong Street, BaoAn
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Date of Test: May 09, 2019 ~ May 16, 2019

Date of Report: May 16, 2019

Report Number: HK1905091050-E



TEST RESULT CERTIFICATION

Applicant's name: SHENZHEN JUSHENGTIMES ELECTRONICS CO., LTD.
Address: Floor 4, Building 8, Hua Feng Industrial Area, TangWei, FuYong Street, BaoAn District, Shenzhen, China

Manufacture's Name.....: SHENZHEN JUSHENGTIMES ELECTRONICS CO., LTD.
Address: Floor 4, Building 8, Hua Feng Industrial Area, TangWei, FuYong Street, BaoAn District, Shenzhen, China

Product description

Trade Mark: N/A
Product name.....: Car DVR
Model and/or type reference : 323

Standards: FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.10: 2013

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Date of Test:
Date (s) of performance of tests: May 09, 2019 ~ May 16, 2019
Date of Issue.....: May 16, 2019
Test Result.....: **Pass**

Testing Engineer : Gary Qian
(Gary Qian)

Technical Manager : Eden Hu
(Eden Hu)

Authorized Signatory : Jason Zhou
(Jason Zhou)



TABLE OF CONTENTS

1. Test Result Summary	4
1.1. TEST PROCEDURES AND RESULTS.....	4
1.2. TEST FACILITY	4
1.3. MEASUREMENT UNCERTAINTY	5
2. EUT Description	6
2.1. GENERAL DESCRIPTION OF EUT	6
2.2. CARRIER FREQUENCY OF CHANNELS	7
2.3. OPERATION OF EUT DURING TESTING	7
2.4. DESCRIPTION OF TEST SETUP	7
3. General Information	8
3.1. TEST ENVIRONMENT AND MODE	8
3.2. DESCRIPTION OF SUPPORT UNITS	9
4. Test Results and Measurement Data	10
4.1. CONDUCTED EMISSION	10
4.2. MAXIMUM CONDUCTED OUTPUT POWER	12
4.3. EMISSION BANDWIDTH.....	14
4.4. POWER SPECTRAL DENSITY	20
4.5. CONDUCTED BAND EDGE AND SPURIOUS EMISSION MEASUREMENT	26
4.6. RADIATED SPURIOUS EMISSION MEASUREMENT	32
4.7. ANTENNA REQUIREMENT	58
4.8. PHOTOGRAPH OF TEST.....	59
5. PHOTOGRAPH OF TEST	60



1. Test Result Summary

1.1. TEST PROCEDURES AND RESULTS

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d) §2.1051, §2.1057	PASS
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	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. TEST FACILITY

Test Firm : Shenzhen HUAKE Testing Technology Co., Ltd.

Address : 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street, Bao'an District, Shenzhen City, 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	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
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	Car DVR
Model Name	323
Serial No.	N/A
Model Difference	N/A
Trade Mark	N/A
FCC ID	2AS7I-323
Antenna Type	Internal Antenna
Antenna Gain	1dBi
Operation frequency	802.11b/g/n 20: 2412~2462 MHz 802.11n 40: 2422~2452MHz
Number of Channels	802.11b/g/n20: 11CH 802.11n 40: 7CH
Modulation Type	CCK/OFDM/DBPSK/DAPSK
Power Source	DC3.7V By Battery or DC5V 1A From Car Charger
Power Rating	DC3.7V By Battery or DC5V 1A From Car Charger



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		

Channel List For 802.11n (HT40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
--	--	04	2427	07	2442	--	--
--	--	05	2432	08	2447	--	--
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)**

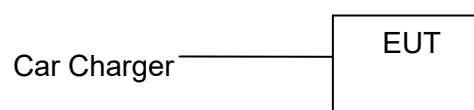
Low Channel: 2422MHz

Middle Channel: 2437MHz

High Channel: 2452MHz

2.4. DESCRIPTION OF TEST SETUP

Operation of EUT during conducted and Radiation testing and Above1GHz Radiation testing:





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(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.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	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(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
/	/	/	/	/

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.*



4. Test Results and Measurement Data

4.1. Conducted Emission

Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <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> </tbody> </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:	<p><i>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</i></p>														
Test Mode:	Charging + transmitting with modulation														
Test Procedure:	<ol style="list-style-type: none"> 1. The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 														
Test Result:	Not applicable for device which is DC Power supply.														

**Test Instruments**

Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Receiver	R&S	ESCI 7	HKE-010	Dec. 27, 2019
LISN	R&S	ENV216	HKE-002	Dec. 27, 2019
Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	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**

TX 802.11b Mode			
Test Channel	Frequency	Maximum Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	13.62	30
CH06	2437	13.01	30
CH11	2462	13.34	30
TX 802.11g Mode			
CH01	2412	12.59	30
CH06	2437	12.21	30
CH11	2462	12.86	30
TX 802.11n20 Mode			
CH01	2412	11.77	30
CH06	2437	11.26	30
CH11	2462	11.02	30
TX 802.11n40 Mode			
CH03	2422	11.14	30
CH06	2437	10.71	30
CH09	2452	10.63	30

**Test data**

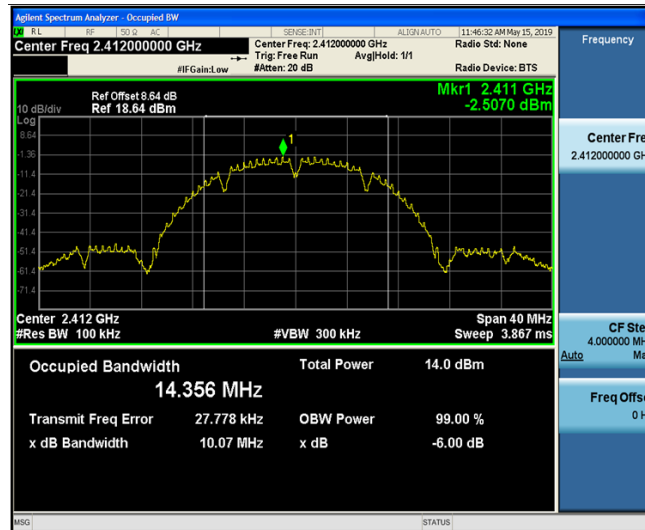
Test channel	6dB Emission Bandwidth (MHz)			
	802.11b	802.11g	802.11n(H20)	802.11n(H40)
Lowest	10.07	16.41	17.63	35.87
Middle	10.11	16.39	17.64	35.99
Highest	10.09	16.39	17.62	36.16
Limit:	>500kHz			
Test Result:	PASS			

Test plots as follows:



802.11b Modulation

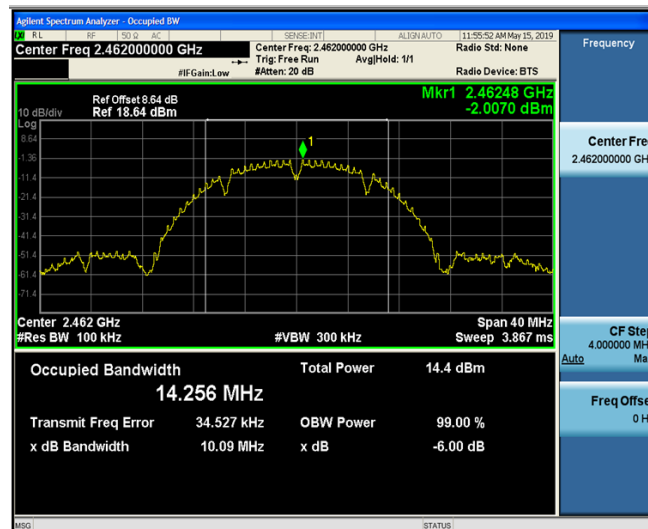
Lowest channel



Middle channel



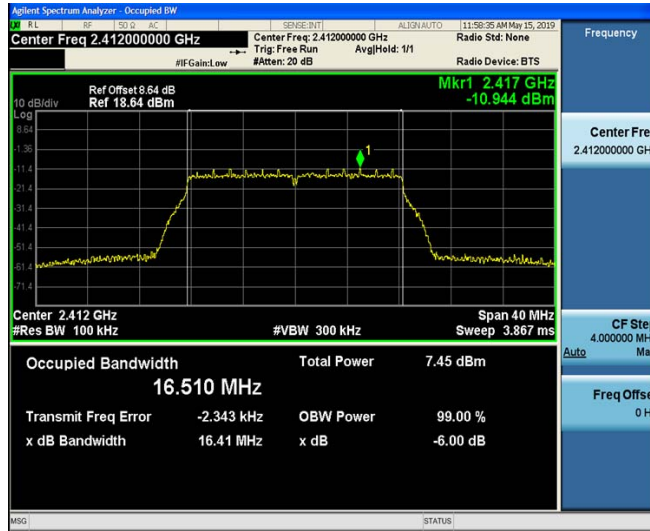
Highest channel



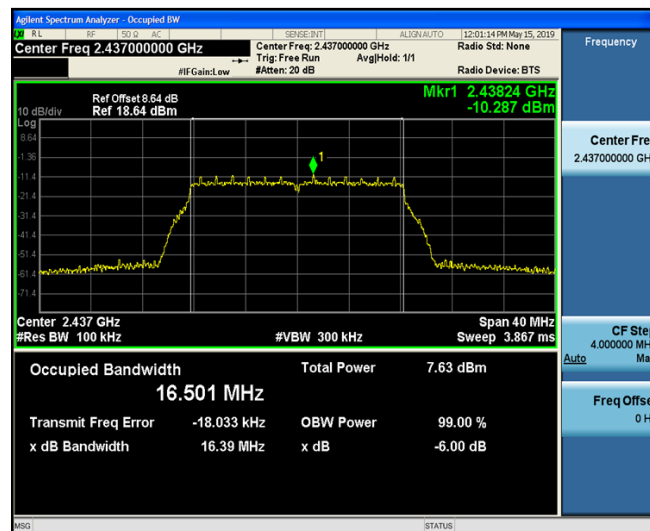


802.11g Modulation

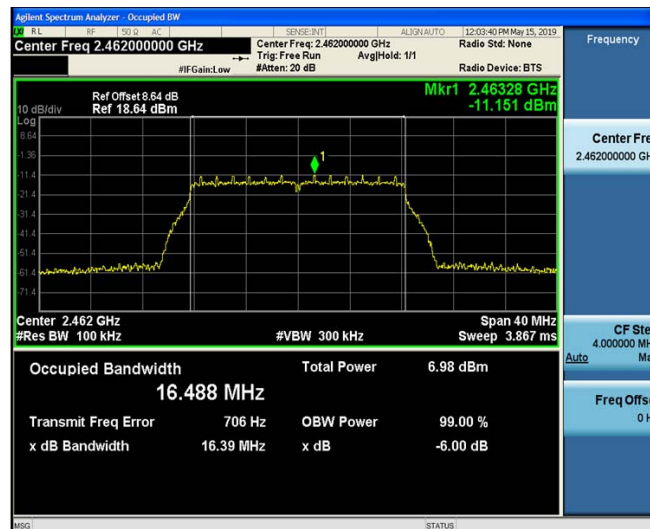
Lowest channel



Middle channel



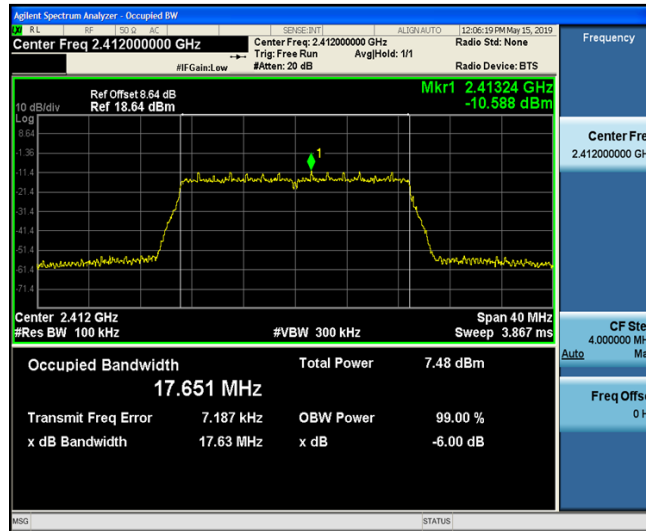
Highest channel



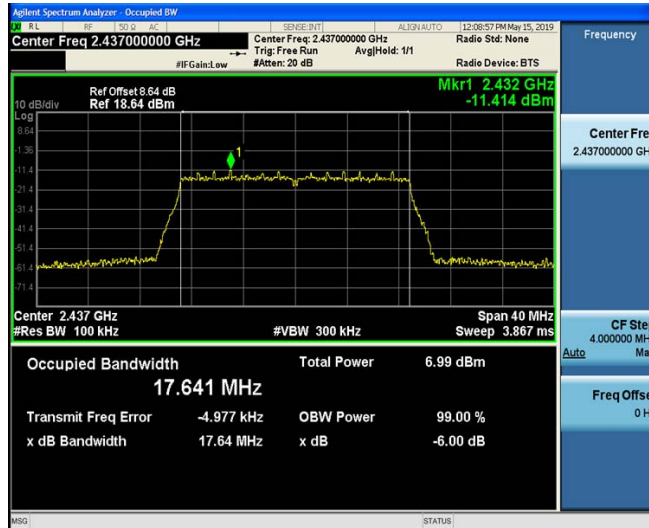


802.11n (HT20) Modulation

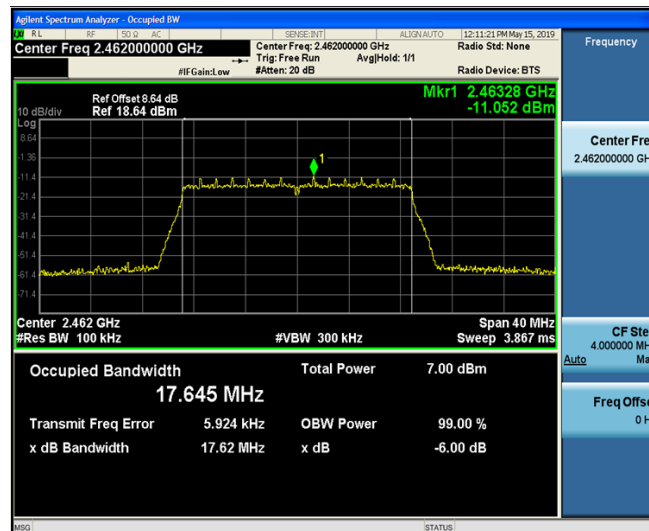
Lowest channel



Middle channel



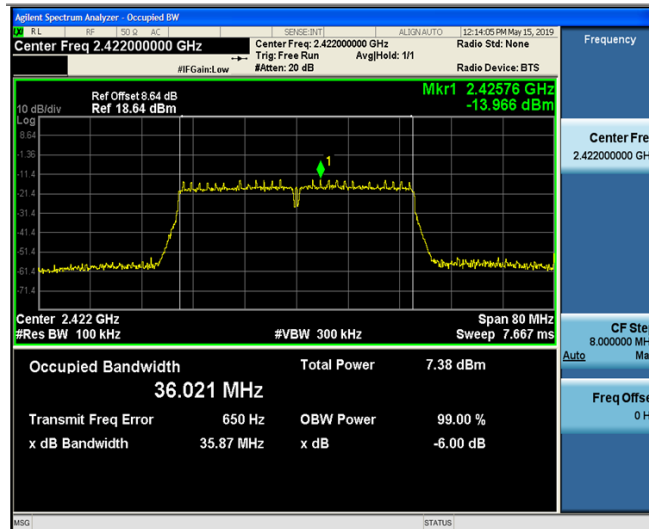
Highest channel



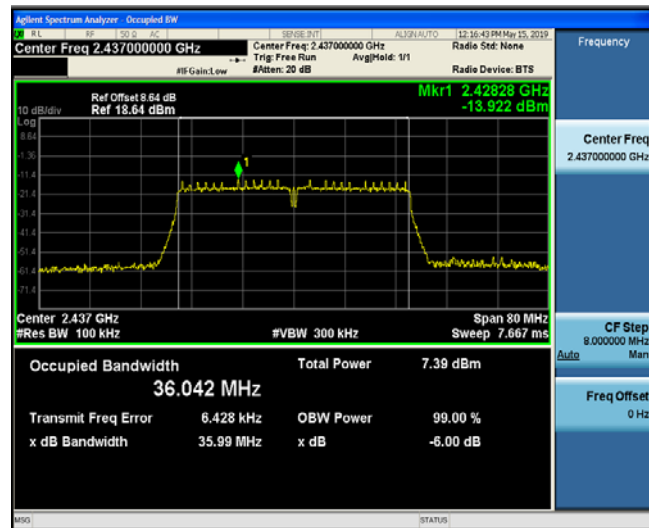


802.11n (HT40) Modulation

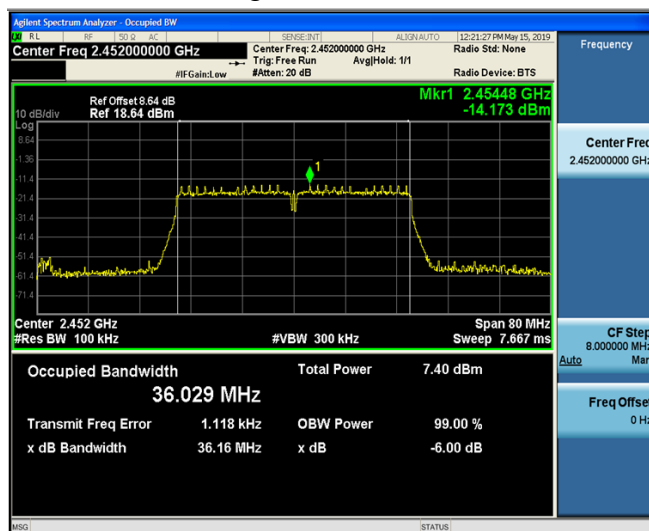
Lowest channel



Middle channel



Highest channel



**Test data**

EUT Set Mode	Channel	Result (dBm/30kHz)	Result (dBm/3kHz)
802.11b	Lowest	-7.04	-17.04
	Middle	-5.55	-15.55
	Highest	-5.25	-15.25
802.11g	Lowest	-15.68	-25.68
	Middle	-15.74	-25.74
	Highest	-15.93	-25.93
802.11n(H20)	Lowest	-15.83	-25.83
	Middle	-15.4	-25.4
	Highest	-15.46	-25.46
802.11n(H40)	Lowest	-18.63	-28.63
	Middle	-18.7	-28.7
	Highest	-18.76	-28.76
PSD test result (dBm/3kHz)= PSD test result (dBm/30kHz)-10			
Limit: 8dBm/3kHz			
Test Result:	PASS		

Test plots as follows:



802.11b Modulation

Lowest channel



Middle channel



Highest channel





802.11g Modulation

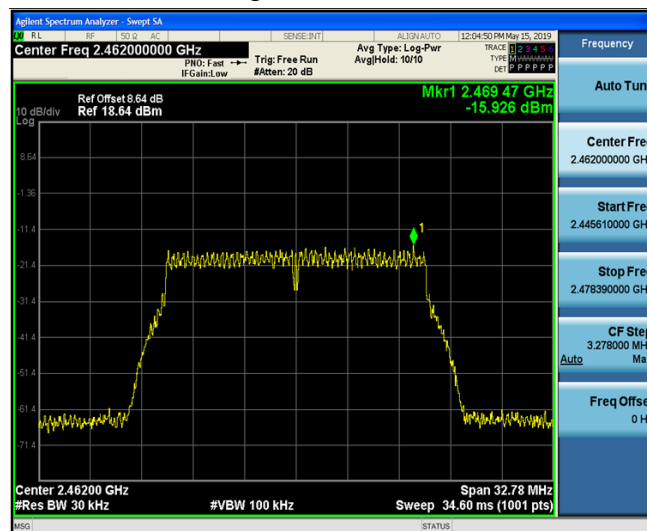
Lowest channel



Middle channel



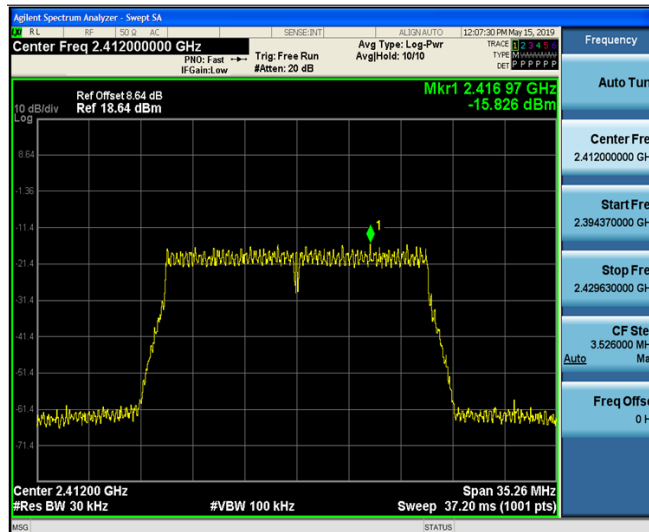
Highest channel



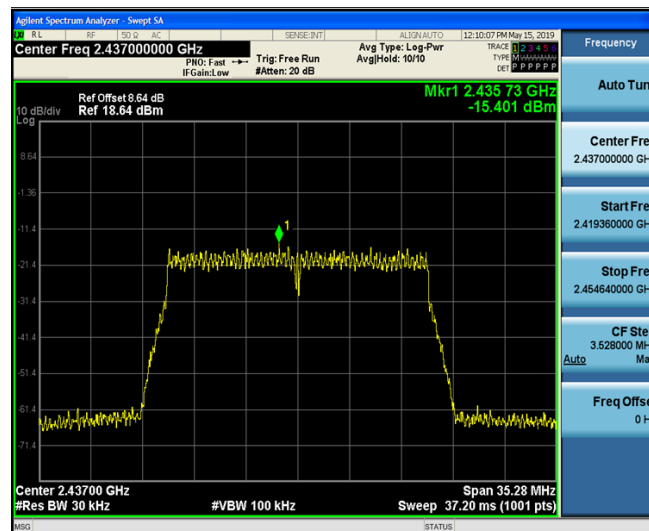


802.11n (HT20) Modulation

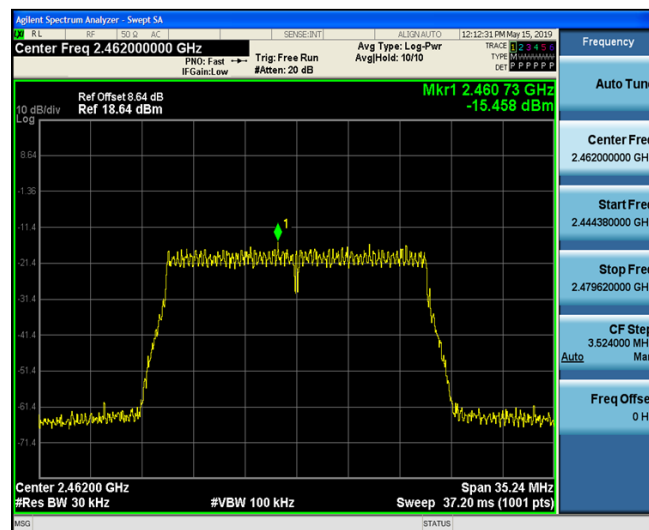
Lowest channel



Middle channel



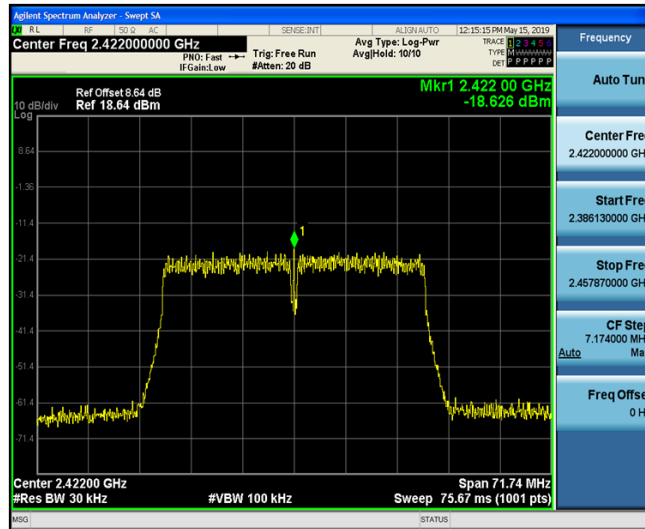
Highest channel



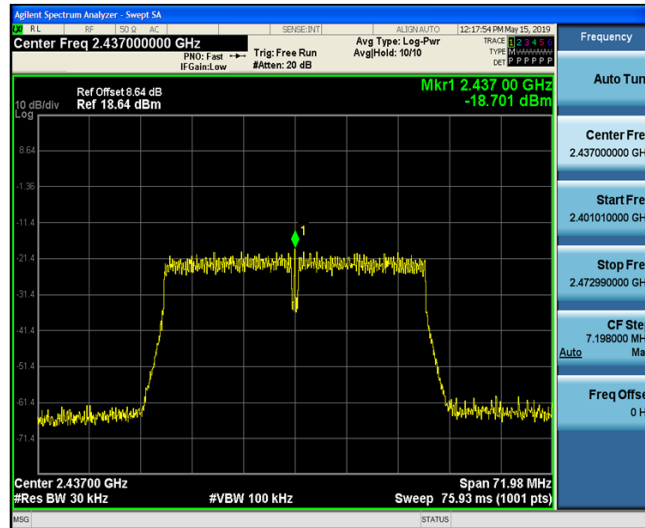


802.11n (HT40) Modulation

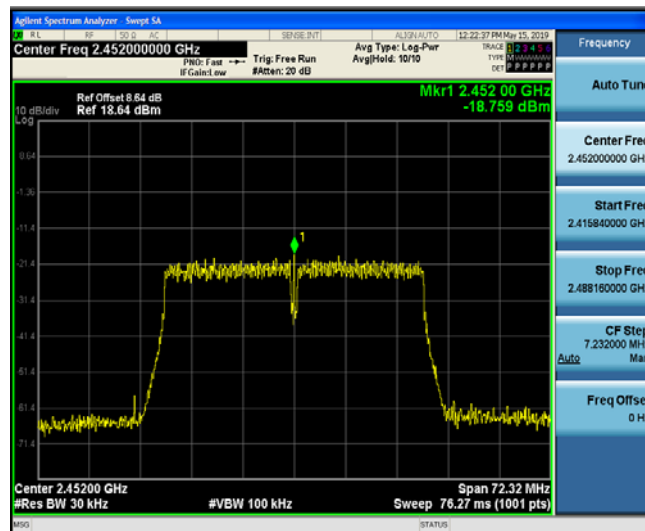
Lowest channel



Middle channel



Highest channel



**Test Instruments**

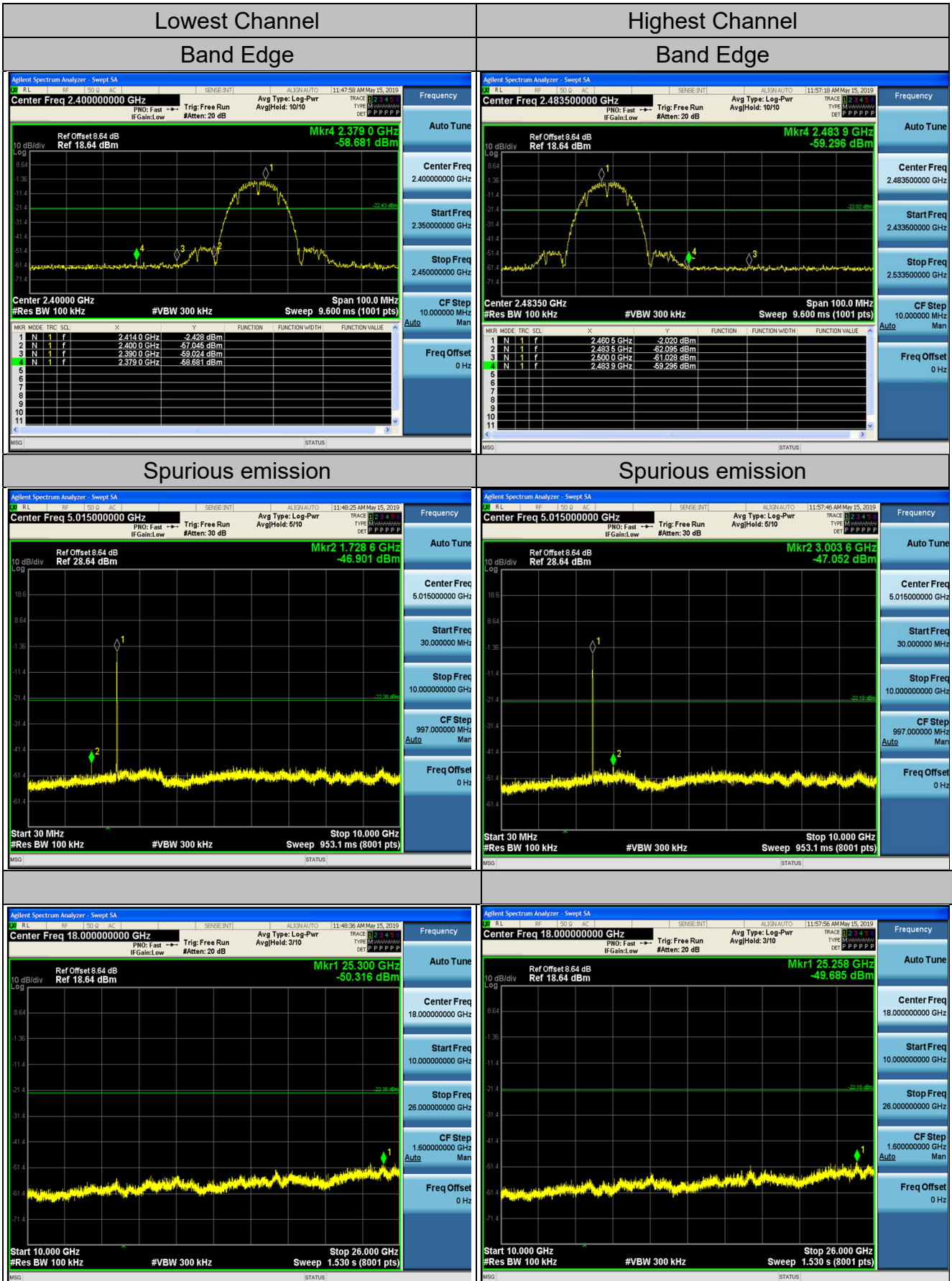
RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 27, 2019
Signal generator	Agilent	N5183A	HKE-071	Dec. 27, 2019
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Dec. 27, 2019
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 27, 2019

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



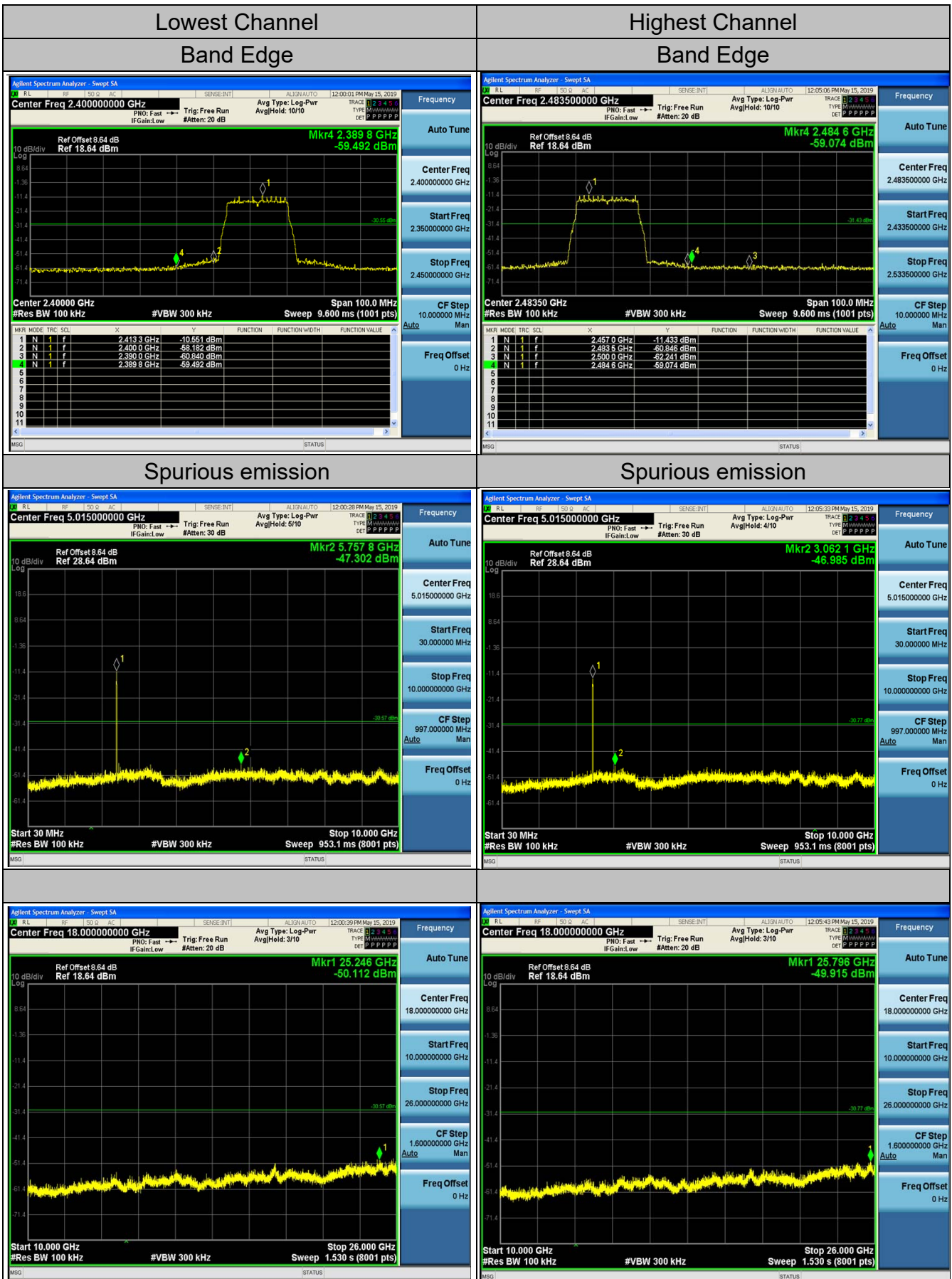
Test Data

802.11b Modulation



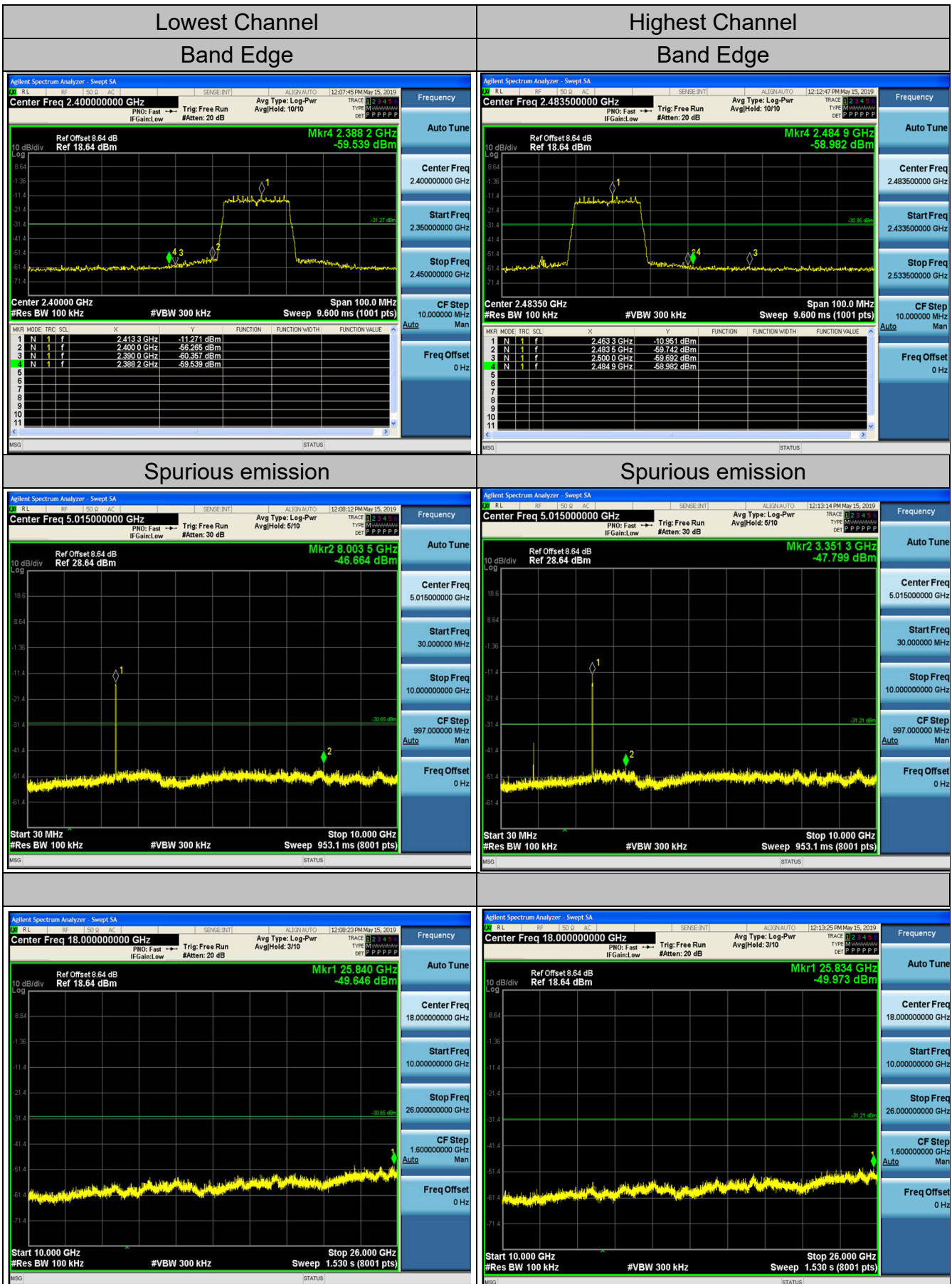


802.11g Modulation



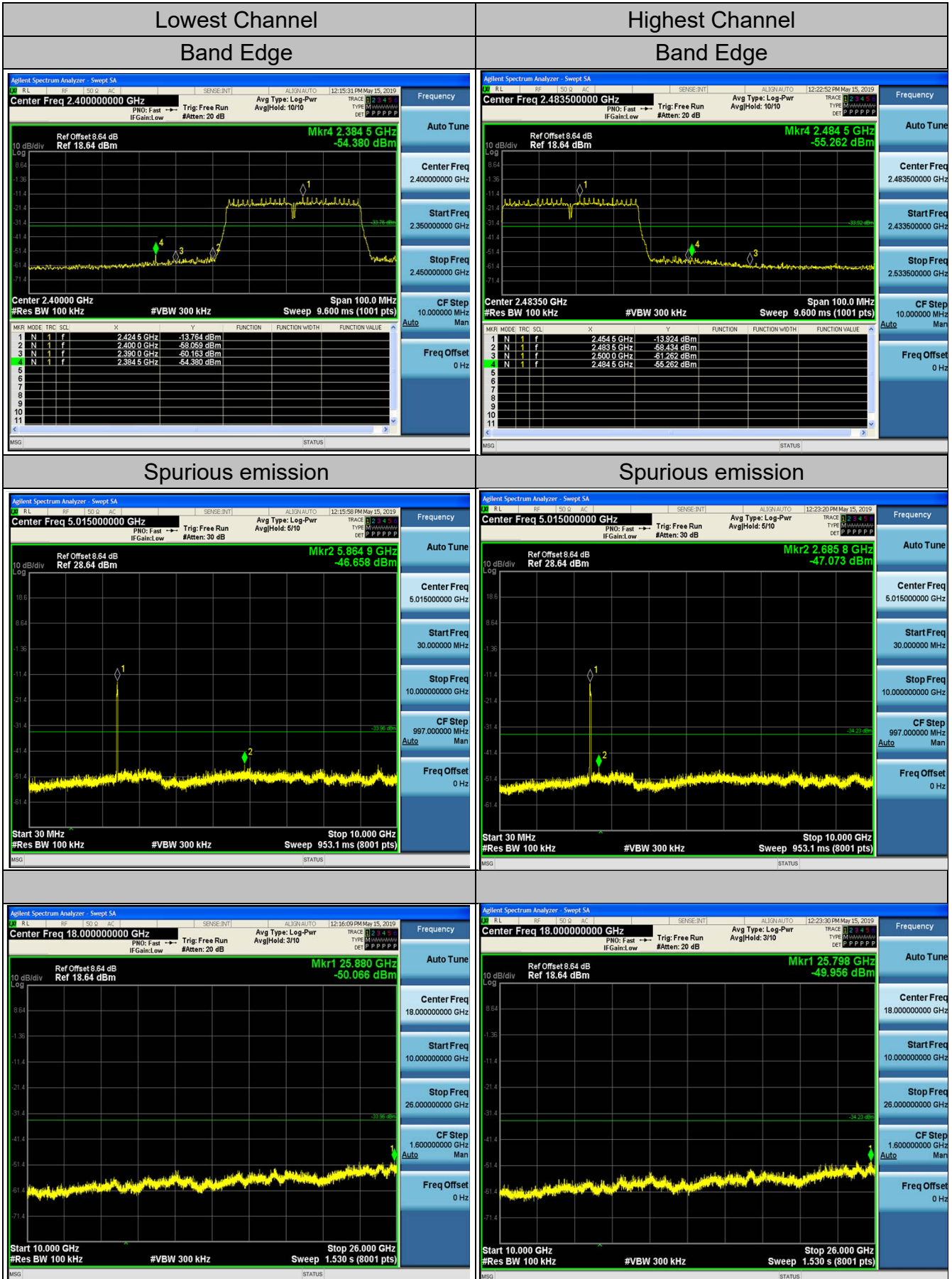


802.11n (HT20) Modulation





802.11n (HT40) Modulation

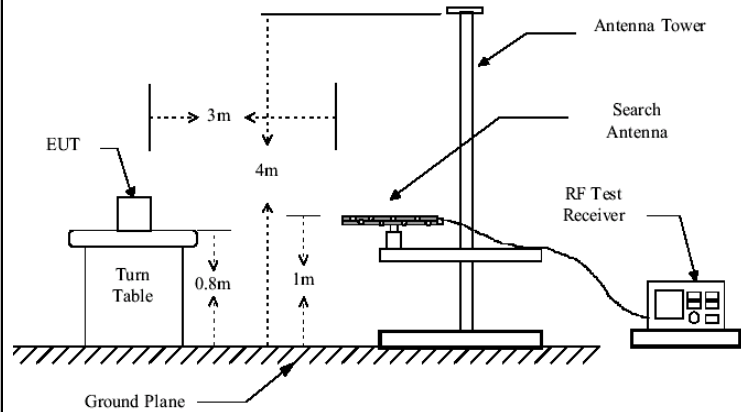




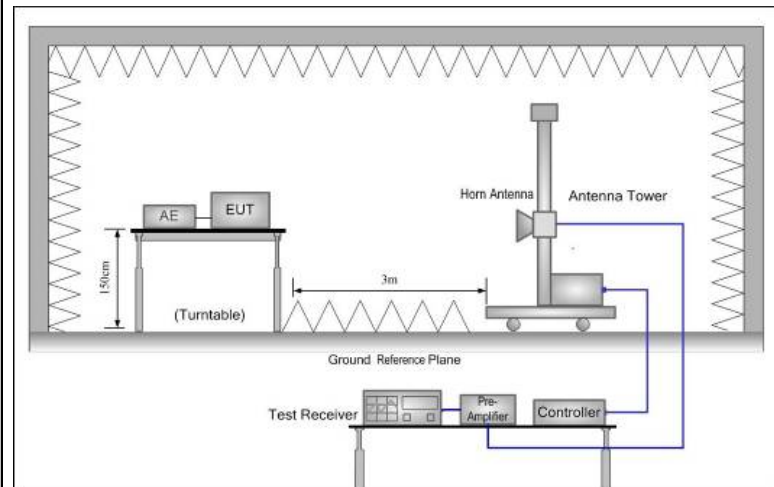
4.6. Radiated Spurious Emission Measurement

Test Specification

Test Requirement:	FCC Part15 C Section 15.209					
Test Method:	ANSI C63.10: 2013					
Frequency Range:	9 kHz to 25 GHz					
Measurement Distance:	3 m					
Antenna Polarization:	Horizontal & Vertical					
Operation mode:	Transmitting mode with modulation					
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark	
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value	
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value	
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
		Peak	1MHz	10Hz	Average Value	
Limit:	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)			
	0.009-0.490	2400/F(KHz)	300			
	0.490-1.705	24000/F(KHz)	30			
	1.705-30	30	30			
	30-88	100	3			
	88-216	150	3			
	216-960	200	3			
	Above 960	500	3			
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector		
	Above 1GHz	500	3	Average		
	5000	3	Peak			
Test setup:	For radiated emissions below 30MHz					
	<p>Distance = 3m</p> <p>0.8m</p> <p>EUT</p> <p>Turn table</p> <p>Ground Plane</p> <p>Computer</p> <p>Pre -Amplifier</p> <p>Receiver</p>					
	30MHz to 1GHz					



Above 1GHz


Test Procedure:

- For the radiated emission test below 1GHz:
 The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
- For the radiated emission test above 1GHz:
 Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which



	<p>maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</p> <ol style="list-style-type: none">3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.5. Use the following spectrum analyzer settings:<ol style="list-style-type: none">(1) Span shall wide enough to fully capture the emission being measured;(2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;(3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. <p>For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p>
Test results:	PASS

**Test Instruments**

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Receiver	R&S	ESCI-7	HKE-010	Dec. 27, 2019
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 27, 2019
Preamplifier	EMCI	EMC051845 SE	HKE-015	Dec. 27, 2019
Preamplifier	Agilent	83051A	HKE-016	Dec. 27, 2019
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 26, 2019
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Dec. 26, 2019
Horn antenna	Schwarzbeck	9120D	HKE-013	Dec. 26, 2019
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
Position controller	Taiwan MF	MF7802	HKE-011	Dec. 27, 2019
Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A
RF cable (9KHz-1GHz)	Times	381806-001	N/A	N/A
RF cable	Times	1-40G	HKE-034	Dec. 27, 2019

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

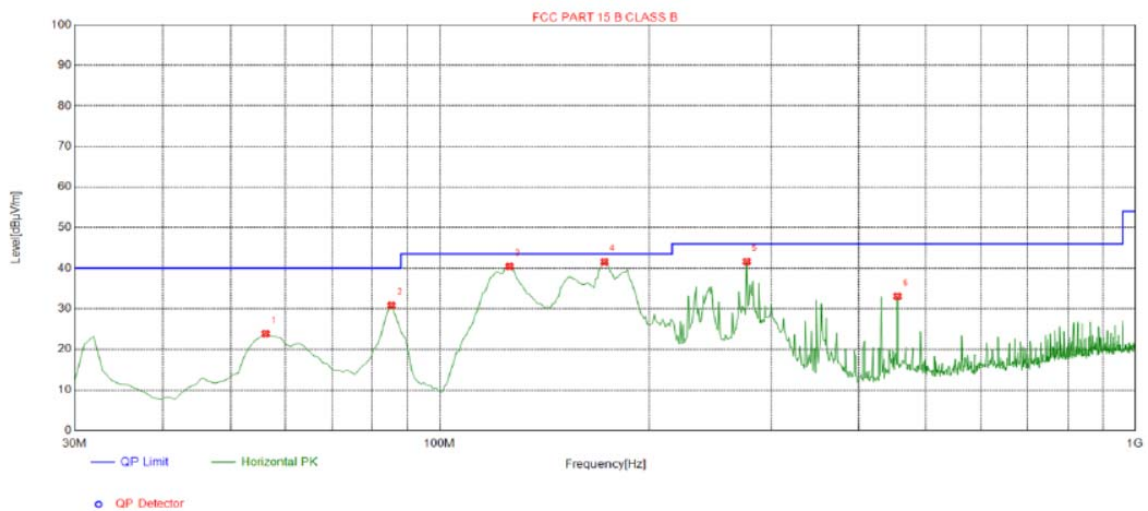


Test Data

All the test modes completed for test. only the worst result of 802.11b at 2412MHz was reported as below:

Below 1GHz

Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	56.1900	23.85	-14.58	40.00	16.15	100	197	Horizontal
2	85.2900	30.83	-18.20	40.00	9.17	100	197	Horizontal
3	126.030	40.45	-17.99	43.50	3.05	100	347	Horizontal
4	172.590	41.60	-17.18	43.50	1.90	100	1	Horizontal
5	276.380	41.68	-13.40	46.00	4.32	100	1	Horizontal
6	455.830	33.08	-8.80	46.00	12.92	100	218	Horizontal

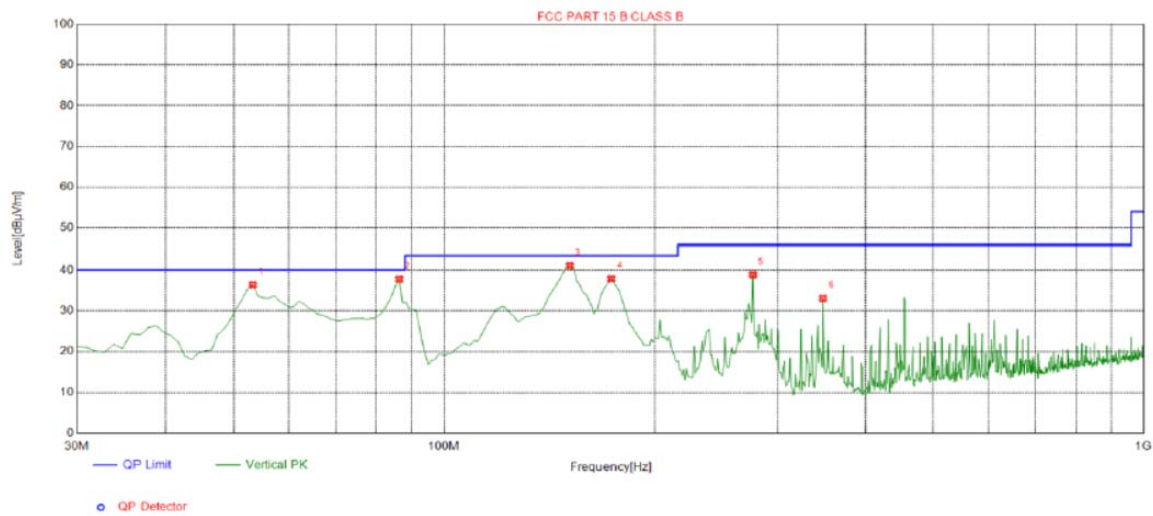
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	53.2800	36.38	-14.15	40.00	3.62	100	318	Vertical
2	86.2600	37.73	-17.97	40.00	2.27	100	13	Vertical
3	151.250	41.05	-18.85	43.50	2.45	100	219	Vertical
4	173.560	37.83	-17.14	43.50	5.67	100	202	Vertical
5	276.380	38.83	-13.40	46.00	7.17	100	39	Vertical
6	348.160	33.08	-11.68	46.00	12.92	100	126	Vertical

Remark: Margin = Limit – Level
 Correction factor = Cable lose + LISN insertion loss
 Level=Test receiver reading + correction factor

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Limit@3m (dBμV/m)
--	--	--
--	--	--
--	--	--
--	--	--

- Note:** 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor
 2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

**Above 1GHz****RADIATED EMISSION TEST**

LOW CH1 (802.11b Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4824	62.46	-3.64	58.82	74	-15.18	peak
4824	47.36	-3.64	43.72	54	-10.28	AVG
7236	56.01	-0.95	55.06	74	-18.94	peak
7236	44.50	-0.95	43.55	54	-10.45	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4824	64.69	-3.64	61.05	74	-12.95	peak
4824	46.87	-3.64	43.23	54	-10.77	AVG
7236	56.78	-0.95	55.83	74	-18.17	peak
7236	43.92	-0.95	42.97	54	-11.03	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4874	63.15	-3.51	59.64	74	-14.36	peak
4874	47.61	-3.51	44.1	54	-9.9	AVG
7311	56.65	-0.82	55.83	74	-18.17	peak
7311	37.34	-0.82	36.52	54	-17.48	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4874	59.99	-3.51	56.48	74	-17.52	peak
4874	46.04	-3.51	42.53	54	-11.47	AVG
7311	54.84	-0.82	54.02	74	-19.98	peak
7311	40.58	-0.82	39.76	54	-14.24	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4924	60.61	-3.43	57.18	74	-16.82	peak
4924	46.78	-3.43	43.35	54	-10.65	AVG
7386	57.39	-0.75	56.64	74	-17.36	peak
7386	40.17	-0.75	39.42	54	-14.58	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4924	63.19	-3.43	59.76	74	-14.24	peak
4924	47.03	-3.43	43.6	54	-10.4	AVG
7386	57.32	-0.75	56.57	74	-17.43	peak
7386	40.88	-0.75	40.13	54	-13.87	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



LOW CH1 (802.11g Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4824	63.08	-3.64	59.44	74	-14.56	peak
4824	49.15	-3.64	45.51	54	-8.49	AVG
7236	54.42	-0.95	53.47	74	-20.53	peak
7236	40.18	-0.95	39.23	54	-14.77	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4824	60.85	-3.64	57.21	74	-16.79	peak
4824	49.34	-3.64	45.7	54	-8.3	AVG
7236	55.85	-0.95	54.9	74	-19.1	peak
7236	43.61	-0.95	42.66	54	-11.34	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



MID CH6 (802.11g Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4874	65.16	-3.51	61.65	74	-12.35	peak
4874	45.07	-3.51	41.56	54	-12.44	AVG
7311	59.37	-0.82	58.55	74	-15.45	peak
7311	43.48	-0.82	42.66	54	-11.34	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4874	60.35	-3.51	56.84	74	-17.16	peak
4874	49.41	-3.51	45.9	54	-8.1	AVG
7311	55.04	-0.82	54.22	74	-19.78	peak
7311	42.64	-0.82	41.82	54	-12.18	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4924	62.85	-3.43	59.42	74	-14.58	peak
4924	45.53	-3.43	42.1	54	-11.9	AVG
7386	56.29	-0.75	55.54	74	-18.46	peak
7386	38.97	-0.75	38.22	54	-15.78	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4924	57.89	-3.43	54.46	74	-19.54	peak
4924	46.45	-3.43	43.02	54	-10.98	AVG
7386	55.44	-0.75	54.69	74	-19.31	peak
7386	36.73	-0.75	35.98	54	-18.02	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



LOW CH1 (802.11n/H20 Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4824	62.69	-3.64	59.05	74	-14.95	peak
4824	45.09	-3.64	41.45	54	-12.55	AVG
7236	58.03	-0.95	57.08	74	-16.92	peak
7236	42.52	-0.95	41.57	54	-12.43	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4824	61.47	-3.64	57.83	74	-16.17	peak
4824	47.55	-3.64	43.91	54	-10.09	AVG
7236	55.94	-0.95	54.99	74	-19.01	peak
7236	40.91	-0.95	39.96	54	-14.04	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



MID CH6 (802.11n/H20 Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4874.00	63.47	-3.51	59.96	74.00	-14.04	peak
4874.00	48.73	-3.51	45.22	54.00	-8.78	AVG
7311.00	57.43	-0.82	56.61	74.00	-17.39	peak
7311.00	42.08	-0.82	41.26	54.00	-12.74	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4874.00	62.83	-3.51	59.32	74.00	-14.68	peak
4874.00	48.61	-3.51	45.10	54.00	-8.90	AVG
7311.00	56.50	-0.82	55.68	74.00	-18.32	peak
7311.00	40.88	-0.82	40.06	54.00	-13.94	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4924	59.67	-3.43	56.24	74	-17.76	peak
4924	47.31	-3.43	43.88	54	-10.12	AVG
7386	56.06	-0.75	55.31	74	-18.69	peak
7386	40.48	-0.75	39.73	54	-14.27	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4924	58.84	-3.43	55.41	74	-18.59	peak
4924	46.02	-3.43	42.59	54	-11.41	AVG
7386	56.28	-0.75	55.53	74	-18.47	peak
7386	38.84	-0.75	38.09	54	-15.91	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4844	64.49	-3.63	60.86	74	-13.14	peak
4844	46.45	-3.63	42.82	54	-11.18	AVG
7266	58.38	-0.94	57.44	74	-16.56	peak
7266	44.04	-0.94	43.1	54	-10.9	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4844	65.46	-3.63	61.83	74	-12.17	peak
4844	47.75	-3.63	44.12	54	-9.88	AVG
7266	56.38	-0.94	55.44	74	-18.56	peak
7266	42.12	-0.94	41.18	54	-12.82	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4874	60.74	-3.51	57.23	74	-16.77	peak
4874	43.61	-3.51	40.1	54	-13.9	AVG
7311	58.49	-0.82	57.67	74	-16.33	peak
7311	44.39	-0.82	43.57	54	-10.43	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4874	60.13	-3.51	56.62	74	-17.38	peak
4874	45.61	-3.51	42.1	54	-11.9	AVG
7311	55.27	-0.82	54.45	74	-19.55	peak
7311	40.88	-0.82	40.06	54	-13.94	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4904	59.21	-3.43	55.78	74	-18.22	peak
4904	46.56	-3.43	43.13	54	-10.87	AVG
7356	55.12	-0.75	54.37	74	-19.63	peak
7356	40.96	-0.75	40.21	54	-13.79	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4904	59.32	-3.43	55.89	74	-18.11	peak
4904	43.99	-3.43	40.56	54	-13.44	AVG
7356	56.03	-0.75	55.28	74	-18.72	peak
7356	39.89	-0.75	39.14	54	-14.86	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

**Test Result of Radiated Spurious at Band edges**

Operation Mode:
802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2310	56.94	-5.81	51.13	74	-22.87	peak
2310	/	-5.81	/	54	/	AVG
2390	61.86	-5.84	56.02	74	-17.98	peak
2390	47.02	-5.84	41.18	54	-12.82	AVG
2400	60.29	-5.84	54.45	74	-19.55	peak
2400	43.16	-5.84	37.32	54	-16.68	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2310	55.16	-5.81	49.35	74	-24.65	peak
2310	/	-5.81	/	54	/	AVG
2390	62.42	-5.84	56.58	74	-17.42	peak
2390	49.07	-5.84	43.23	54	-10.77	AVG
2400	57.88	-5.84	52.04	74	-21.96	peak
2400	46.98	-5.84	41.14	54	-12.86	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.50	55.39	-5.65	49.74	74	-24.26	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	53.05	-5.65	47.4	74	-26.6	peak
2500.00	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.50	54.75	-5.65	49.1	74	-24.9	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	51.11	-5.65	45.46	74	-28.54	peak
2500.00	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



Operation Mode: 802.11g Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2310	55.54	-5.81	49.73	74	-24.27	peak
2310	/	-5.81	/	54	/	AVG
2390	63.29	-5.84	57.45	74	-16.55	peak
2390	43.01	-5.84	37.17	54	-16.83	AVG
2400	59.65	-5.84	53.81	74	-20.19	peak
2400	48.44	-5.84	42.6	54	-11.4	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2310	55.37	-5.81	49.56	74	-24.44	peak
2310	/	-5.81	/	54	/	AVG
2390	61.64	-5.84	55.8	74	-18.2	peak
2390	45.41	-5.84	39.57	54	-14.43	AVG
2400	60.08	-5.84	54.24	74	-19.76	peak
2400	46.56	-5.84	40.72	54	-13.28	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.50	55.72	-5.65	50.07	74	-23.93	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	50.62	-5.65	44.97	74	-29.03	peak
2500.00	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.50	55.83	-5.65	50.18	74	-23.82	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	54.48	-5.65	48.83	74	-25.17	peak
2500.00	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



Operation Mode: 802.11n/H20 Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2310	58.99	-5.81	53.18	74	-20.82	peak
2310	/	-5.81	/	54	/	AVG
2390	60.12	-5.84	54.28	74	-19.72	peak
2390	49.67	-5.84	43.83	54	-10.17	AVG
2400	60.94	-5.84	55.1	74	-18.9	peak
2400	42.34	-5.84	36.5	54	-17.5	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2310	56.22	-5.81	50.41	74	-23.59	peak
2310	/	-5.81	/	54	/	AVG
2390	59.18	-5.84	53.34	74	-20.66	peak
2390	50.69	-5.84	44.85	54	-9.15	AVG
2400	64.88	-5.84	59.04	74	-14.96	peak
2400	44.33	-5.84	38.49	54	-15.51	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.50	55.27	-5.65	49.62	74	-24.38	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	57.45	-5.65	51.8	74	-22.2	peak
2500.00	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.50	56.75	-5.65	51.1	74	-22.9	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	54.73	-5.65	49.08	74	-24.92	peak
2500.00	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



Operation Mode: 802.11n/H40 Mode TX CH Low (2422MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2310	58.75	-5.81	52.94	74	-21.06	peak
2310	/	-5.81	/	54	/	AVG
2390	62.36	-5.84	56.52	74	-17.48	peak
2390	43.43	-5.84	37.59	54	-16.41	AVG
2400	61.71	-5.84	55.87	74	-18.13	peak
2400	48.72	-5.84	42.88	54	-11.12	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2310	54.87	-5.81	49.06	74	-24.94	peak
2310	/	-5.81	/	54	/	AVG
2390	64.15	-5.84	58.31	74	-15.69	peak
2390	46.23	-5.84	40.39	54	-13.61	AVG
2400	62.79	-5.84	56.95	74	-17.05	peak
2400	46.68	-5.84	40.84	54	-13.16	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Operation Mode: TX CH High (2452MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.50	55.52	-5.65	49.87	74	-24.13	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	57.43	-5.65	51.78	74	-22.22	peak
2500.00	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.50	52.55	-5.65	46.9	74	-27.1	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	55.58	-5.65	49.93	74	-24.07	peak
2500.00	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

4.7. ANTENNA REQUIREMENT

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

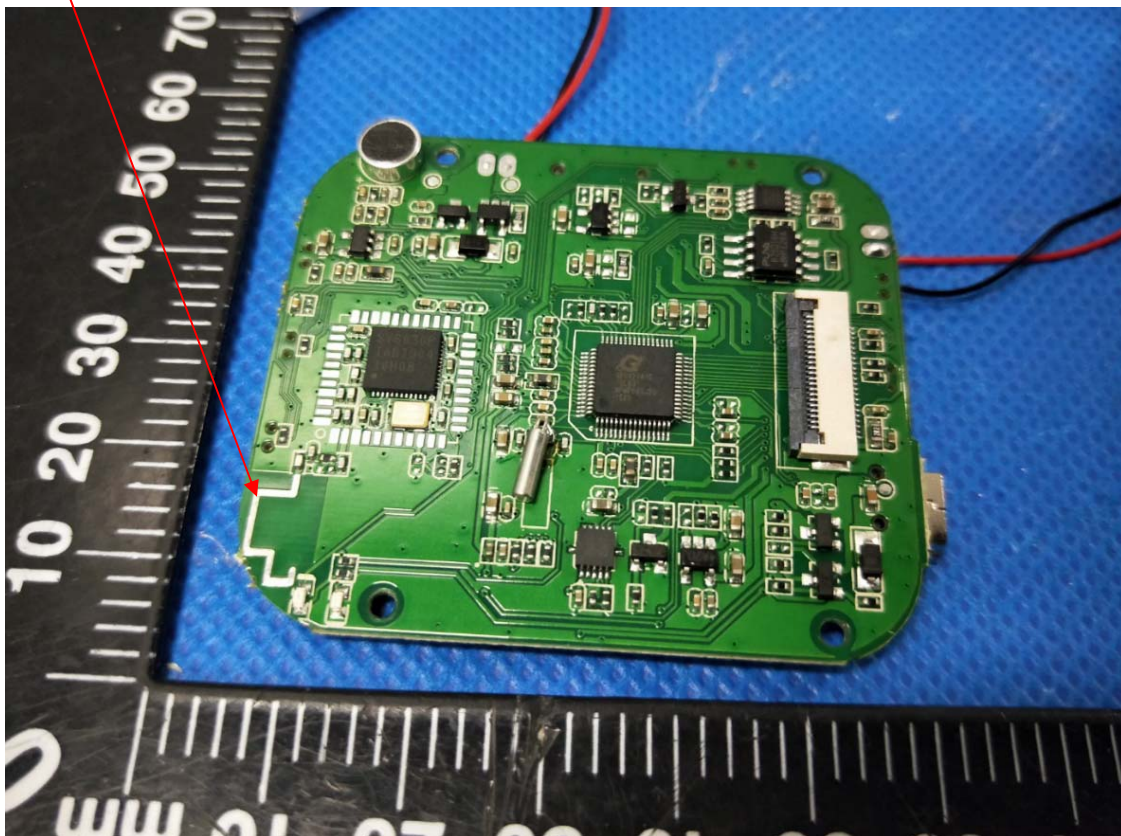
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

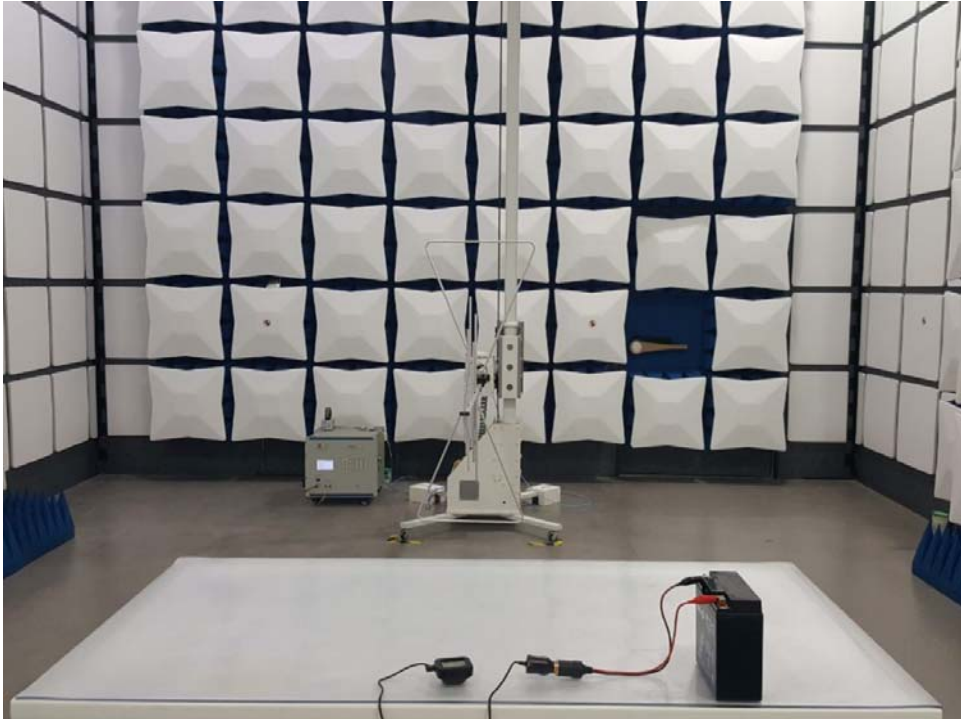
The antenna used in this product is a Internal Antenna, The directional gains of antenna used for transmitting is 1dBi.

WIFI ANTENNA



4.8. PHOTOGRAPH OF TEST

Radiated Emission





5. PHOTOGRAPH OF TEST

Reference to the reporter : ANNEX A of external photos and ANNEX B of internal photos

-----End of test report-----