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Report Template Version: V03
Report Template Revision Date: Mar.1st, 2017

Test Report

Report No. :	CQASZ20190400012EX-01
Applicant:	Hangzhou Meari Technology Co., Ltd.
Address of Applicant:	No.91, Chutian Road,Xixing Block, Binjiang, Hangzhou, 310051 Zhejiang, CHINA
Manufacturer:	Hangzhou Meari Technology Co., Ltd.
Address of Manufacturer:	No.91, Chutian Road,Xixing Block, Binjiang, Hangzhou, 310051 Zhejiang, CHINA

Equipment Under Test (EUT):

Product:	IP Camera
Model No.:	Speed 5S
Brand Name:	N/A
FCC ID:	2AG7C-SPEED5S
Standards:	47 CFR FCC Part 15 Subpart C 15.247
Date of Test:	Apr. 18, 2019 to May 20, 2019
Date of Issue:	May 20, 2019
Test Result :	**PASS**

Tested By: Daisy Qin

(Daisy Qin)

Reviewed By: Aaron Ma

(Aaron Ma)

Approved By:

(Jack Ai)

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* In the configuration tested, the EUT complied with the standards specified above.

2 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20190400012EX-01	Rev.01	Initial report	May 20, 2019

3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak & Average Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS

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5 General Information

5.1 Client Information

Applicant:	Hangzhou Meari Technology Co., Ltd.
Address of Applicant:	No.91, Chutian Road,Xixing Block, Binjiang, Hangzhou, 310051 Zhejiang, CHINA
Manufacturer:	Hangzhou Meari Technology Co., Ltd.
Address of Manufacturer:	No.91, Chutian Road,Xixing Block, Binjiang, Hangzhou, 310051 Zhejiang, CHINA

5.2 General Description of EUT

Product Name:	IP Camera
Model No.:	Speed 5S
Trade Mark:	N/A
Hardware version:	REV1.1AK737F-A0
Software version:	V1.0
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK,BPSK)
Product Type:	☐ Mobile ☐ Portable ☒ Fix Location
Test Software of EUT:	RF test (manufacturer declare)
Antenna Type	Internal Antenna
Antenna Gain	3.0dBi
Power Supply:	DC 5V from adapter
Adapter Information:	Model: TPA-46B050100UU Input: 100-240V 50/60Hz 0.2A Output: 5V 1000mA

Note: Please refer to the instruction manual for details.

Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz	/	/

Operation Frequency each of channel(802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
/	/	4	2427MHz	7	2442MHz	/	/
/	/	5	2432MHz	8	2447MHz	/	/
3	2422MHz	6	2437MHz	9	2452MHz	/	/

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:

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

For 802.11n (HT40):

Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz

Note:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

5.3 Test Environment

Operating Environment:	
Temperature:	25.0 °C
Humidity:	53 % RH
Atmospheric Pressure:	1010mbar
Transmitting mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT. Note: In the process of transmitting of EUT, the duty cycle ＞98%.

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
/	/	/	/	/

5.5 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua New District, Shenzhen, Guangdong, China

5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L5785)**

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

- **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

5.7 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	±5.12dB	(1)
2	Radiated Emission (Above 1GHz)	±4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	±3.34dB	(1)
4	Radio Frequency	3×10^{-8}	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	time	0.6 %.	(1)
14	Frequency Error	5.5 Hz	(1)

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5.8 Deviation from Standards

None.

5.9 Abnormalities from Standard Conditions

None.

5.10 Other Information Requested by the Customer

None.

5.11 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2018/9/26	2019/9/25
Spectrum analyzer	R&S	FSU26	CQA-038	2018/10/28	2018/10/27
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2018/9/26	2019/9/25
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2018/11/2	2019/11/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2018/10/28	2020/10/27
Bilog Antenna	R&S	HL562	CQA-011	2018/9/26	2020/9/25
Horn Antenna	R&S	HF906	CQA-012	2018/9/26	2020/9/25
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2018/9/26	2020/9/25
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2018/9/26	2019/9/25
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2018/9/26	2019/9/25
Spectrum analyzer	Agilent	E4440A	CQA-103	2018/10/28	2018/10/27
Antenna Connector	CQA	RFC-01	CQA-080	2018/9/26	2019/9/25
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2018/9/26	2019/9/25
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2018/9/26	2019/9/25
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2018/9/26	2019/9/25
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2018/9/26	2019/9/25
EMI Test Receiver	R&S	ESPI3	CQA-013	2018/9/26	2019/9/25
LISN	R&S	ENV216	CQA-003	2018/11/5	2019/11/4
Coaxial cable	CQA	N/A	CQA-C009	2018/9/26	2019/9/25

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)

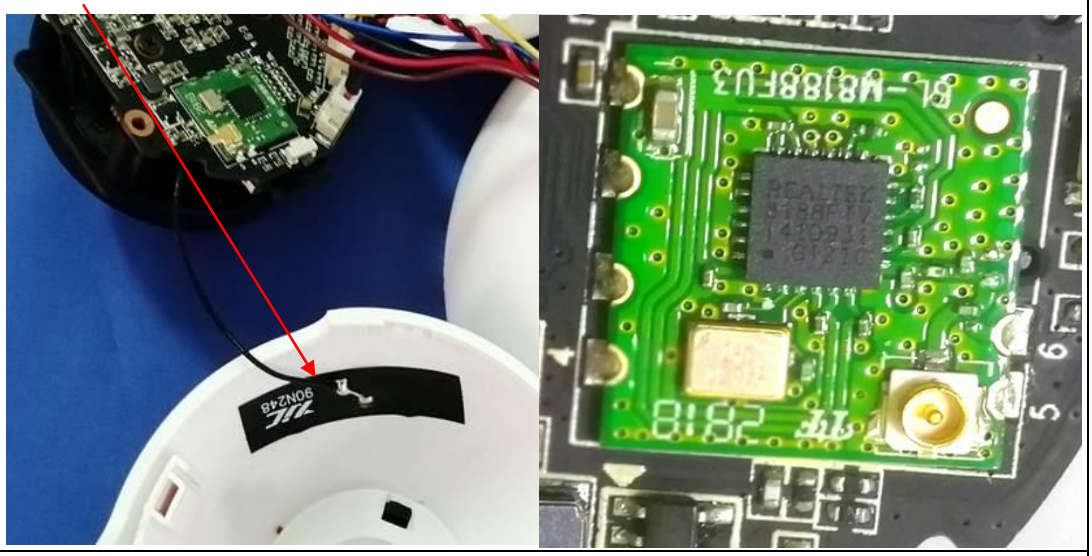
15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

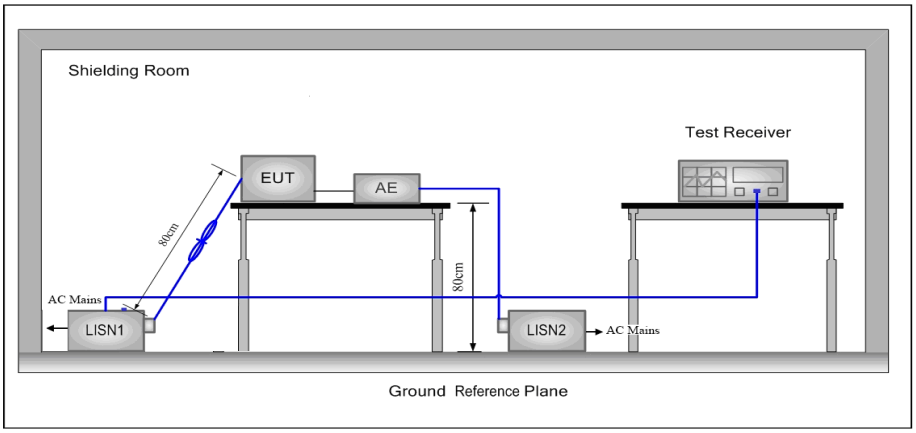
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is internal antenna. The best case gain of the antenna is 3.0dBi.

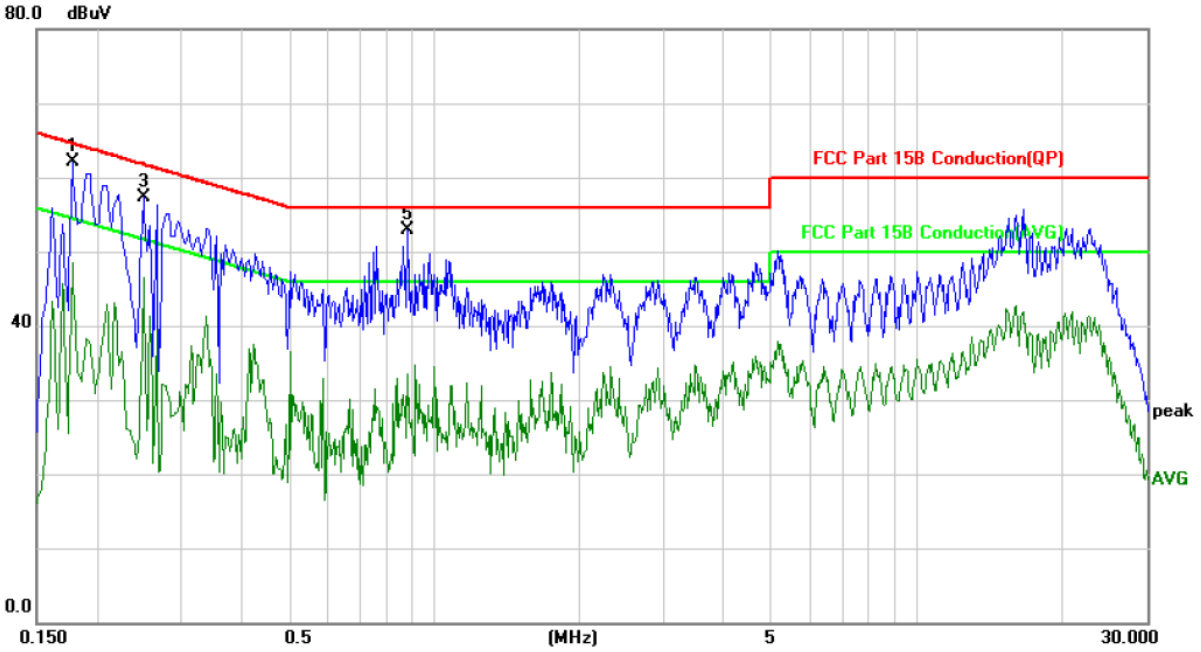
6.2 Conducted Emissions

<table>
<tr><td>Test Requirement:</td><td>47 CFR Part 15C Section 15.207</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10: 2013</td></tr>
<tr><td>Test Frequency Range:</td><td>150kHz to 30MHz</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Limit (dBuV)</td></tr>
<tr><td>Quasi-peak</td><td>Average</td></tr>
<tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr>
<tr><td>0.5-5</td><td>56</td><td>46</td></tr>
<tr><td>5-30</td><td>60</td><td>50</td></tr>
</table>
* Decreases with the logarithm of the frequency.
</td></tr>
<tr><td>Test Procedure:</td><td>1) The mains terminal disturbance voltage test was conducted in a shielded room.
2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
5) 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.</td></tr>
<tr><td>Test Setup:</td><td> 
</td></tr>
<tr><td>Exploratory Test Mode:</td><td>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.</td></tr>
</table>

Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC120V/60Hz
Test Results:	Pass

Measurement Data

Live Line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1780	62.26	-0.13	62.13	64.57	-2.44	peak	
2		0.1780	48.61	-0.13	48.48	54.57	-6.09	AVG	
3		0.2500	57.39	-0.11	57.28	61.75	-4.47	peak	
4		0.2500	46.67	-0.11	46.56	51.75	-5.19	AVG	
5		0.8820	52.96	-0.09	52.87	56.00	-3.13	peak	
6		0.8820	33.61	-0.09	33.52	46.00	-12.48	AVG	
7		0.1780	58.13	-0.13	58.00	64.57	-6.57	QP	

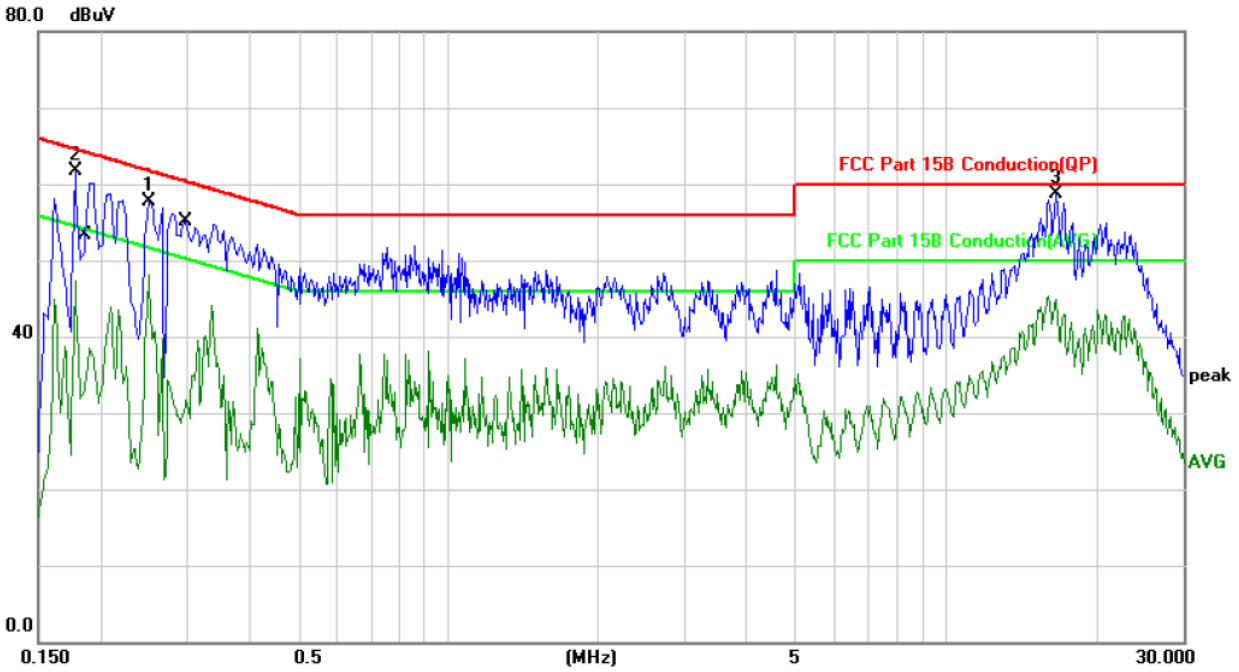
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral Line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2500	57.91	-0.11	57.80	61.75	-3.95	peak	
2		0.1780	61.83	-0.13	61.70	64.57	-2.87	peak	
3	*	16.6940	58.96	-0.28	58.68	60.00	-1.32	peak	
4		0.1835	32.34	-0.13	32.21	54.32	-22.11	AVG	
5		0.2980	31.61	-0.01	31.60	50.30	-18.70	AVG	
6		16.6940	51.68	-0.28	51.40	60.00	-8.60	QP	

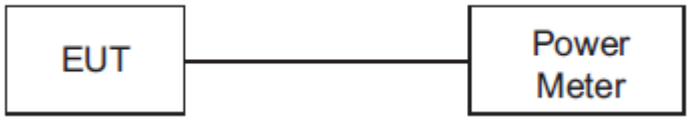
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

3. If the Peak value under Average limit, the Average value is not recorded in the report.

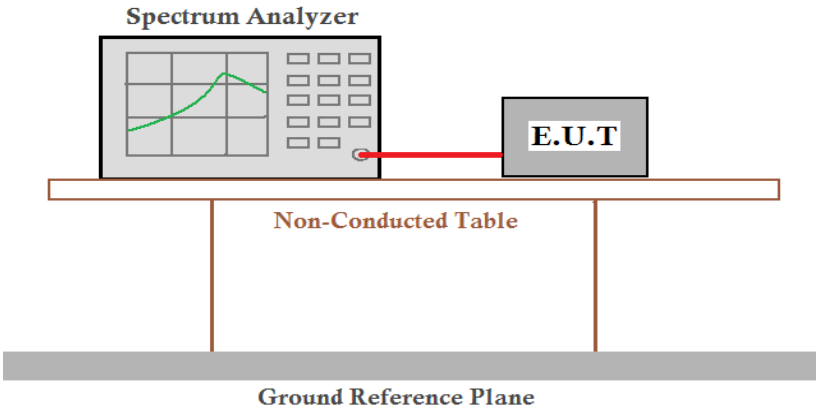
6.3 Conducted Peak & Average Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10: 2013
Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40); Only the worst case is recorded in the report.
Limit:	30dBm
Test Results:	Pass

Type	Test channel	Peak Output Power (dBm)	Average Output Power dBm)	Limit (dBm)	Result
802.11b	Lowest	16.893	14.006	30.00	Pass
	Middle	14.366	11.317		
	Highest	14.658	11.313		
802.11g	Lowest	15.693	8.676	30.00	Pass
	Middle	19.604	12.575		
	Highest	19.897	12.889		
802.11n(HT20)	Lowest	15.309	7.981	30.00	Pass
	Middle	15.629	8.242		
	Highest	15.832	8.489		
802.11n(HT40)	Lowest	12.455	5.352	30.00	Pass
	Middle	12.536	5.428		
	Highest	12.493	5.43		

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

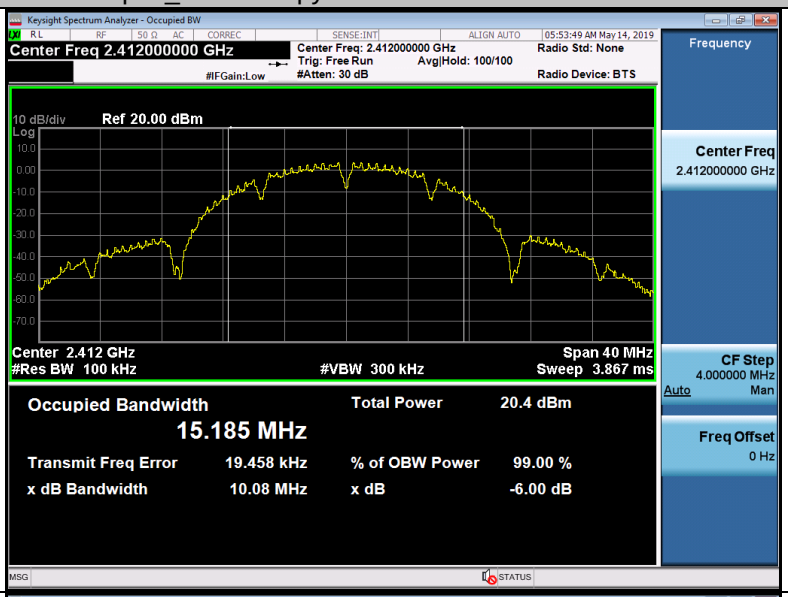
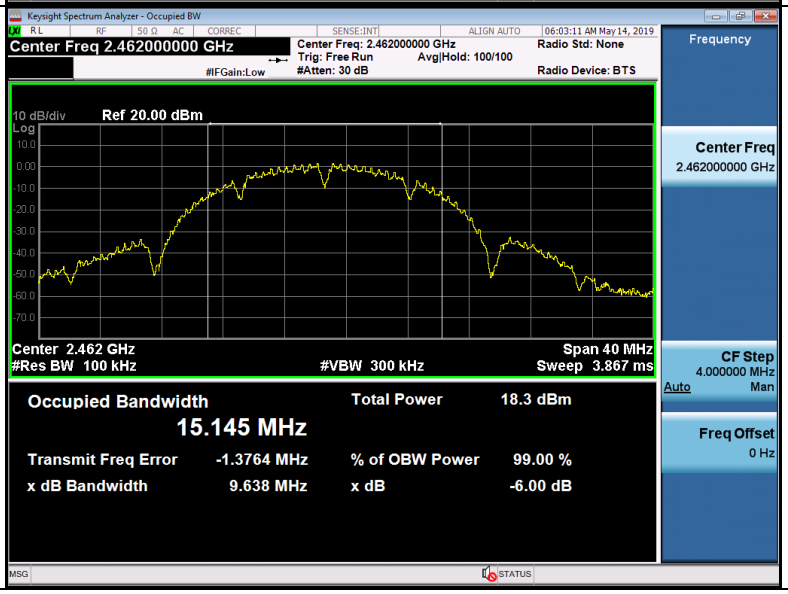
6.4 6dB Occupy Bandwidth

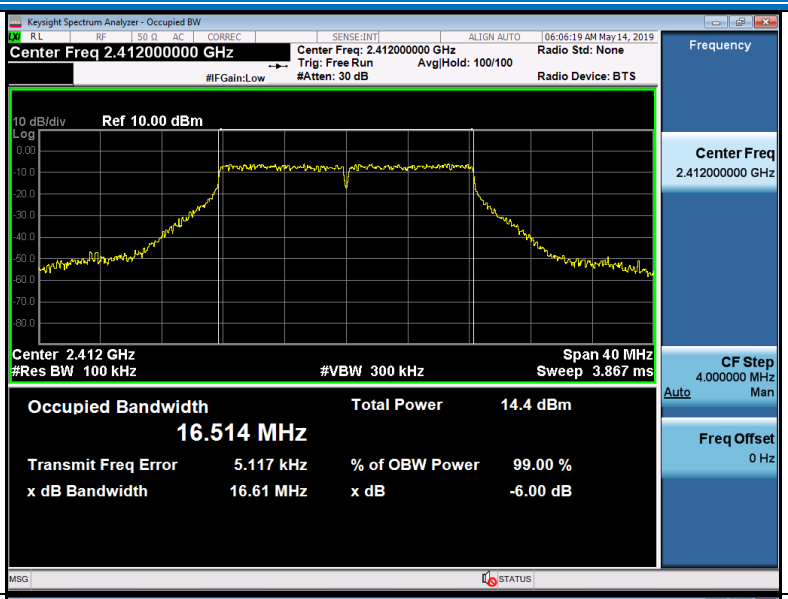
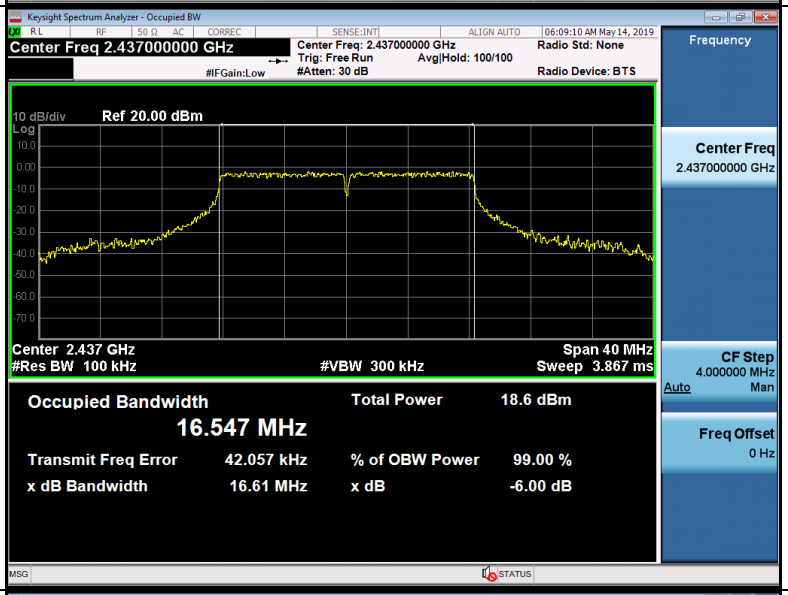
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40); Only the worst case is recorded in the report.
Limit:	≥ 500 kHz
Test Results:	Pass

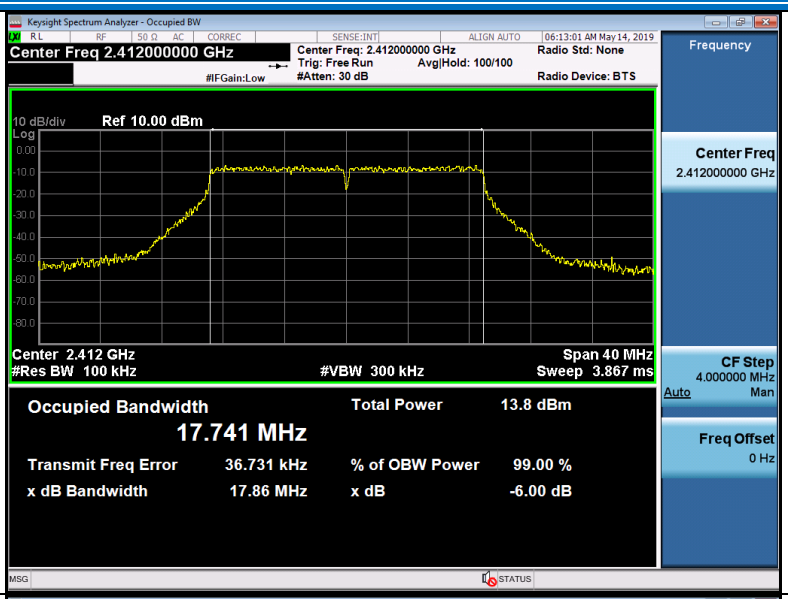
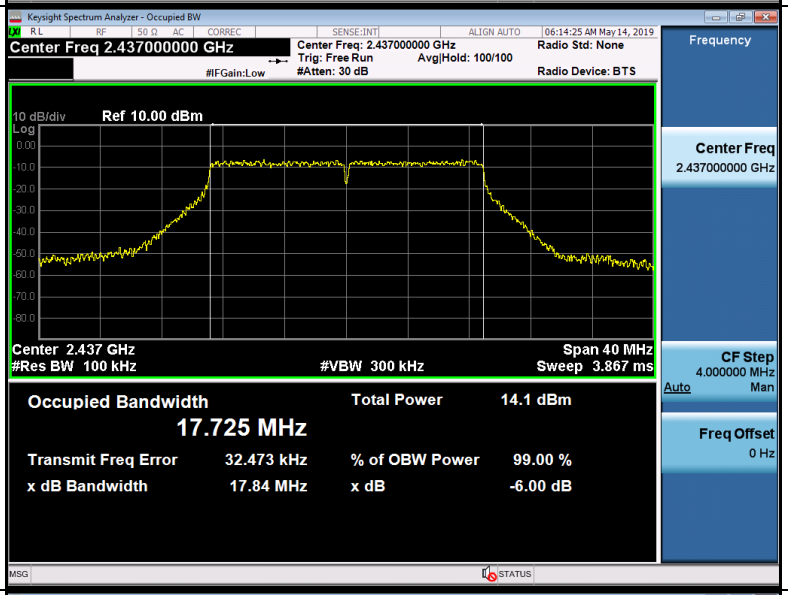
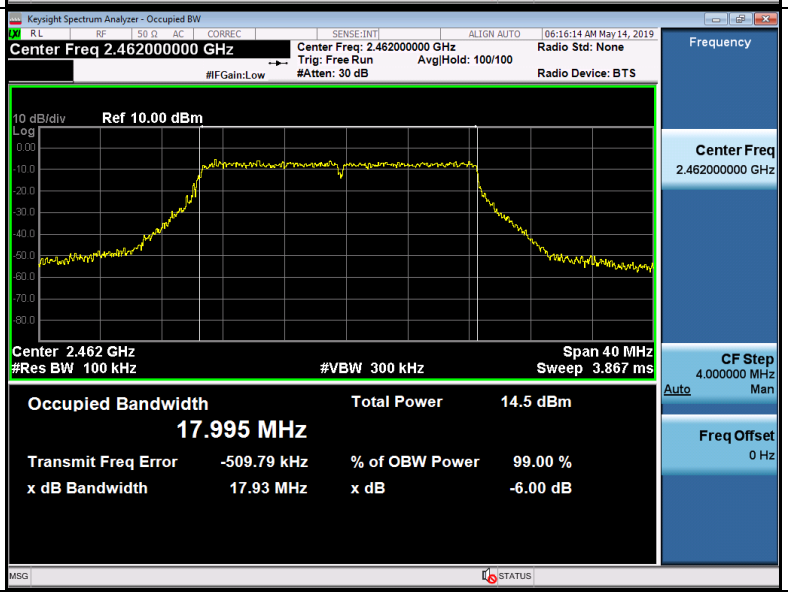
Measurement Data

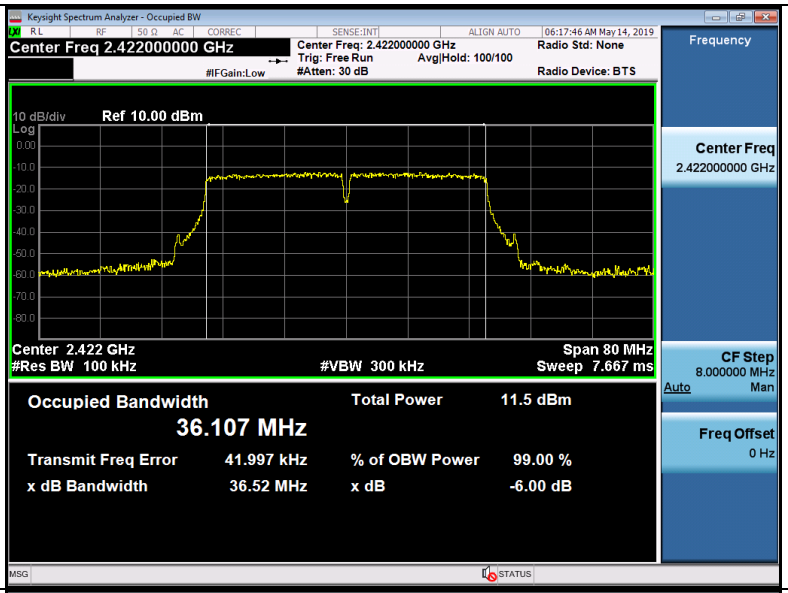
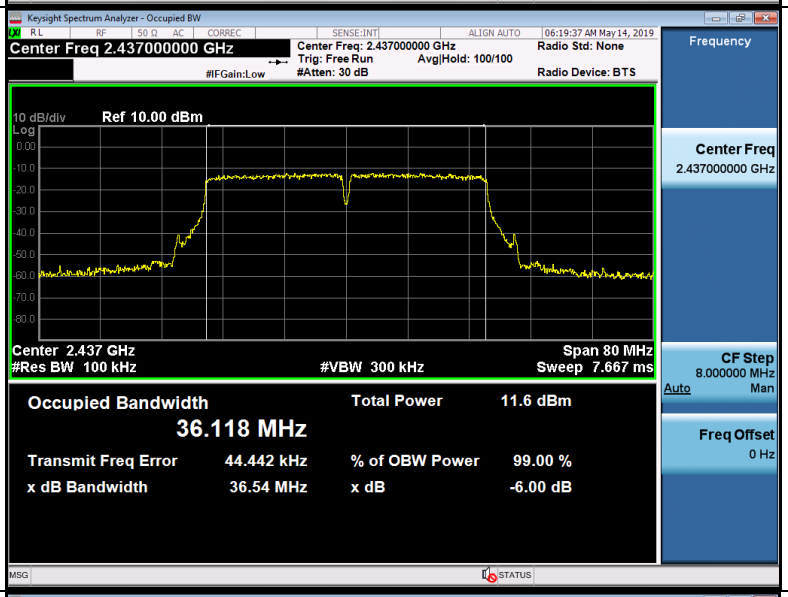
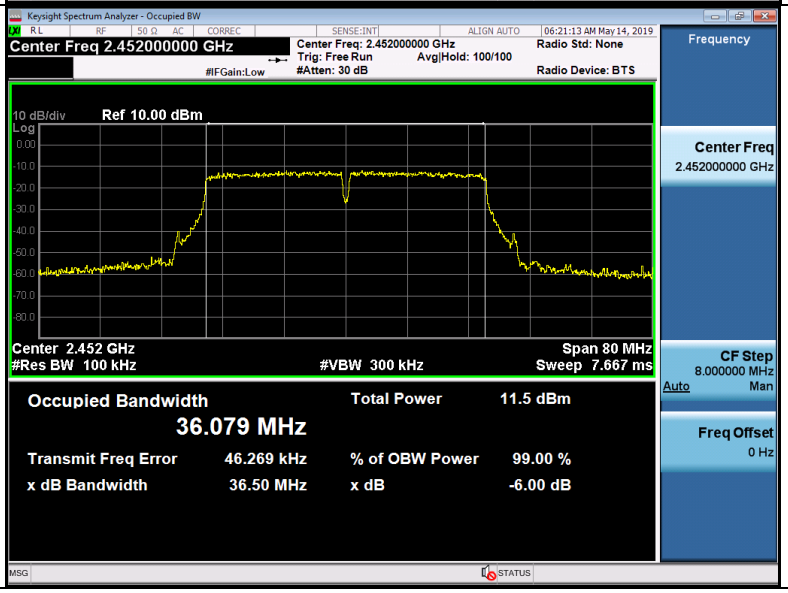
Type	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11b	Lowest	10.077	≥500	Pass
	Middle	10.098		
	Highest	9.638		
802.11g	Lowest	16.605	≥500	Pass
	Middle	16.61		
	Highest	16.654		
802.11n(HT20	Lowest	17.865	≥500	Pass
	Middle	17.839		
	Highest	17.931		
802.11n(HT40)	Lowest	36.521	≥500	Pass
	Middle	36.541		
	Highest	36.498		

Test plot as follows:

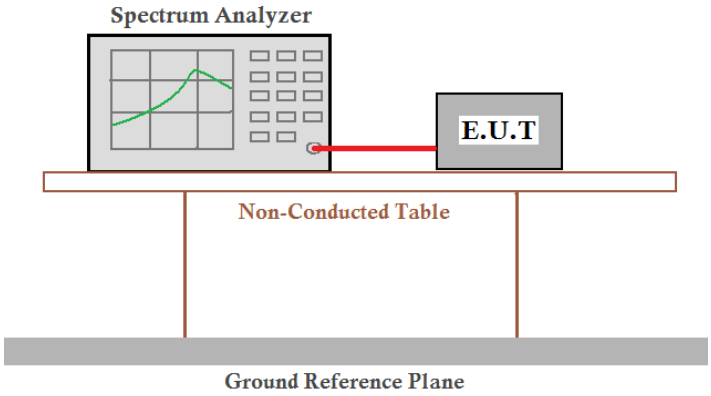
Graphs_6dB Occupy Bandwidth		
11B/LCH		
11B/MCH		
11B/HCH		

11G/LCH		
11G/MCH		
11G/HCH		

11N20/LCH		
11N20/MCH		
11N20/HCH		

11N40/LCH		
11N40/MCH		
11N40/HCH		

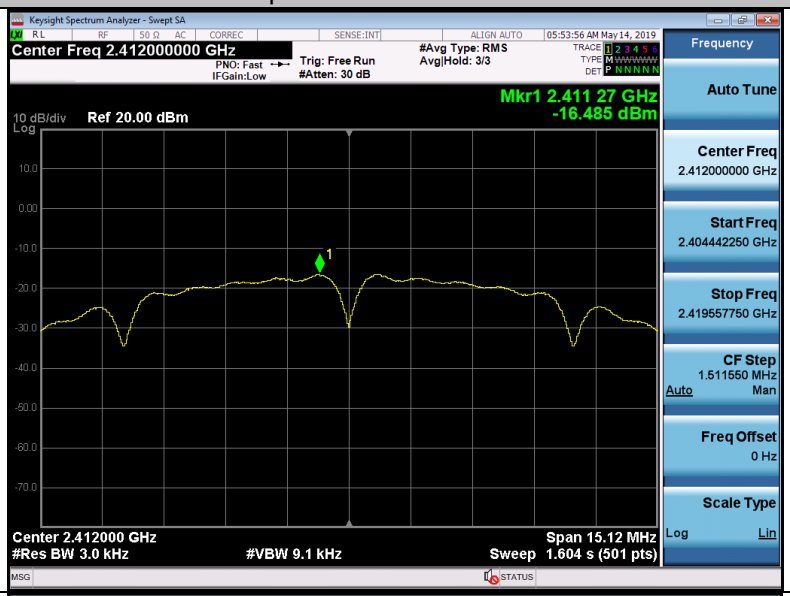
6.5 Power Spectral Density

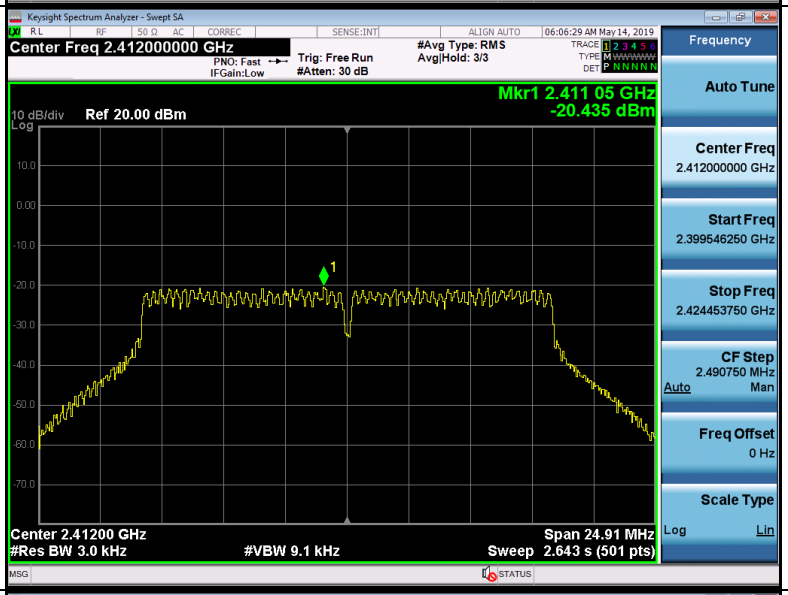
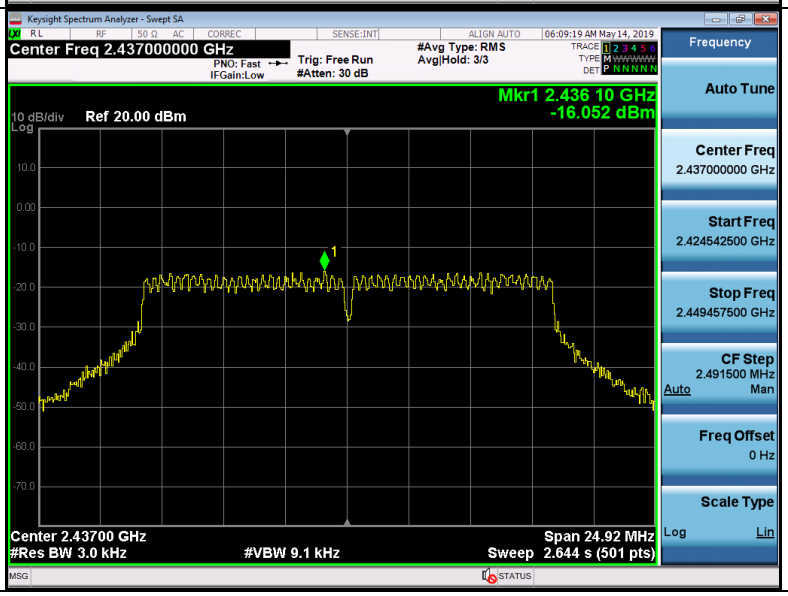
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10: 2013
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40); Only the worst case is recorded in the report.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

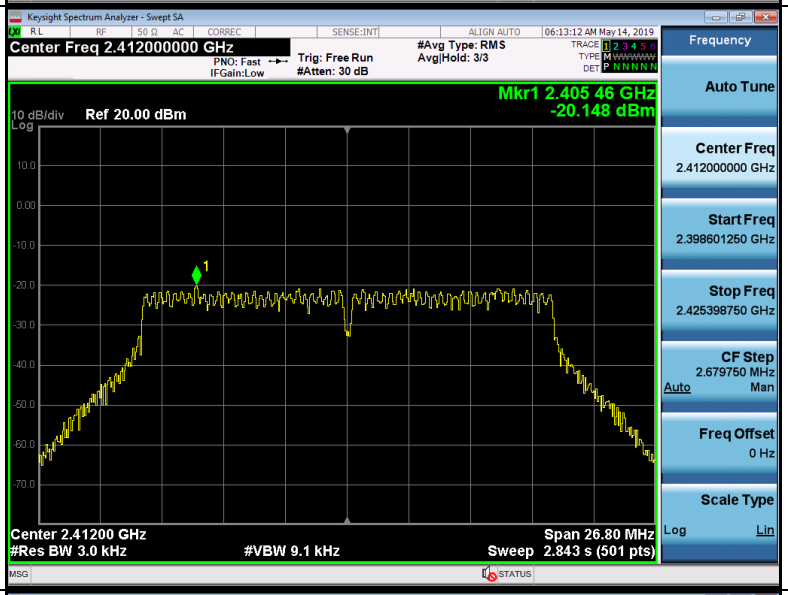
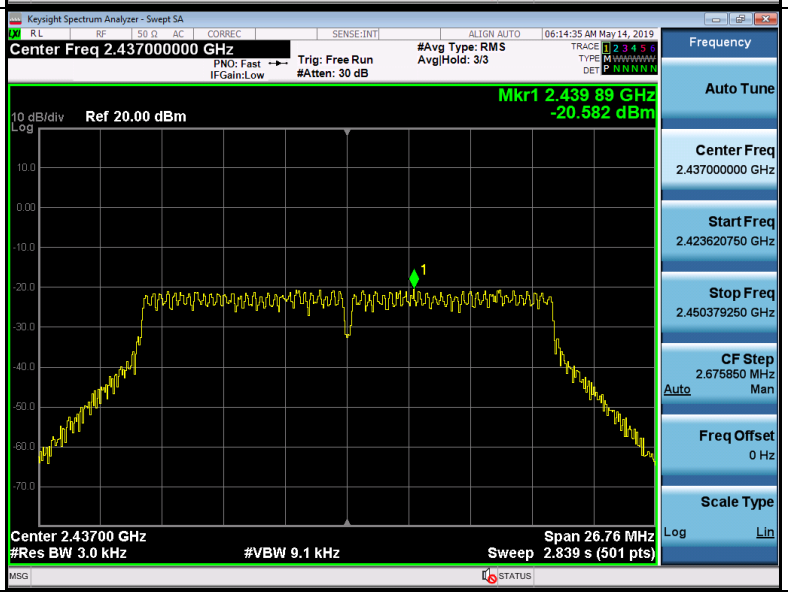
Measurement Data

Type	Channel	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
802.11b	Lowest	-16.485	8	Pass
	Middle	-18.574		
	Highest	-12.797		
802.11g	Lowest	-20.435	8	Pass
	Middle	-16.052		
	Highest	-12.653		
802.11n(HT20)	Lowest	-20.148	8	Pass
	Middle	-20.582		
	Highest	-18.923		
802.11n(HT40)	Lowest	-23.881	8	Pass
	Middle	-25.57		
	Highest	-24.644		

Test plot as follows:

Graphs		
11B/LCH		
11B/MCH		

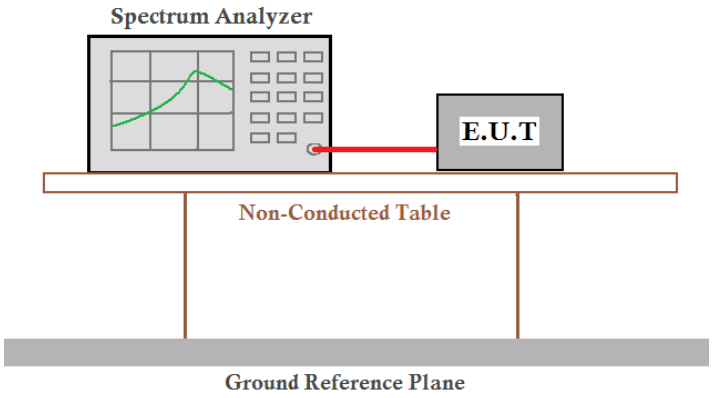
11B/HCH		
11G/LCH		
11G/MCH		

11G/HCH		
11N20/LCH		
11N20/MCH		

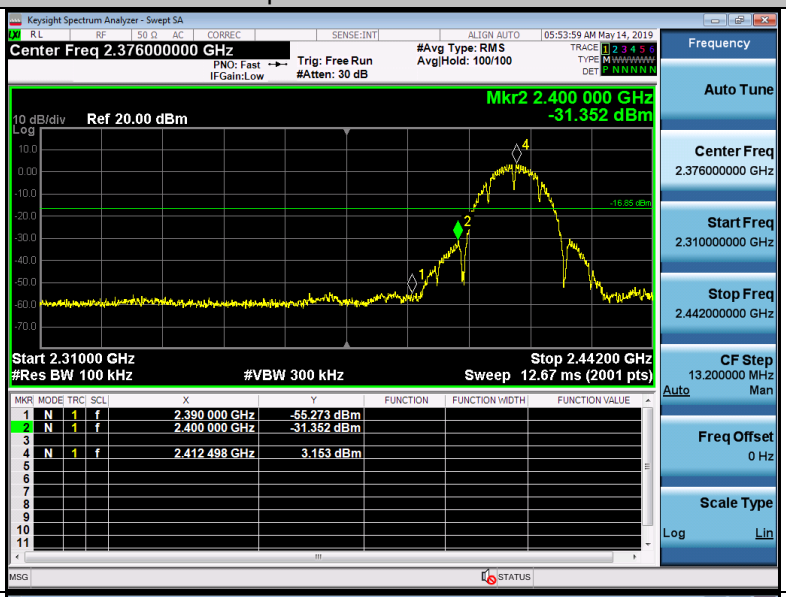
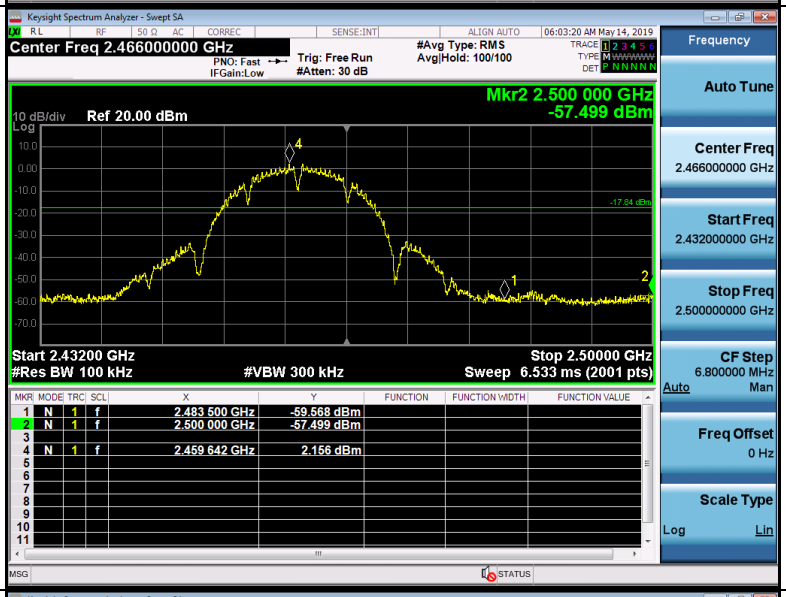
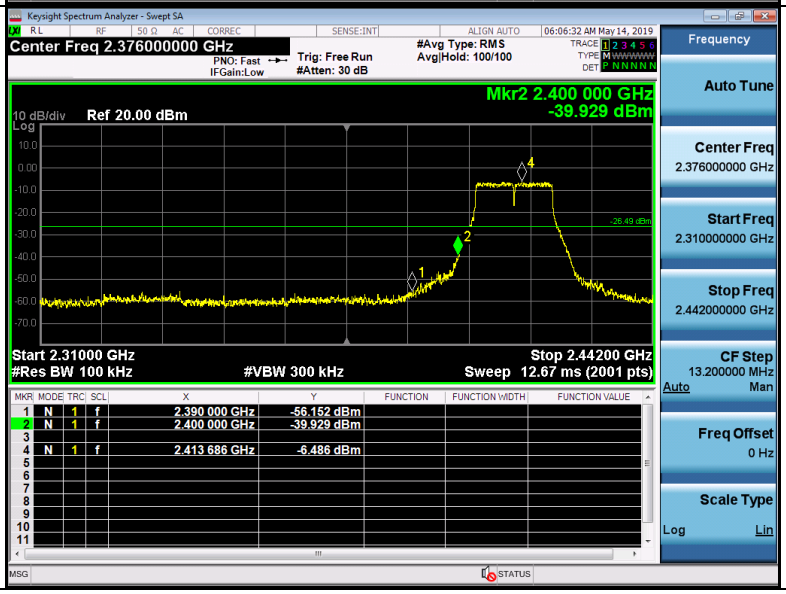
11N20/HCH	 Keysight Spectrum Analyzer - Swept SA Center Freq 2.462000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS Avg|Hold: 3/3 06:16:24 AM May 14, 2019 Mkr1 2.454 85 GHz -18.923 dBm 10 dB/div Log Ref 20.00 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 9.1 kHz Span 26.90 MHz Sweep 2.854 s (501 pts) Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.448551750 GHz Stop Freq 2.475448250 GHz CF Step 2.689650 MHz Auto Man Freq Offset 0 Hz Scale Type Log Lin	

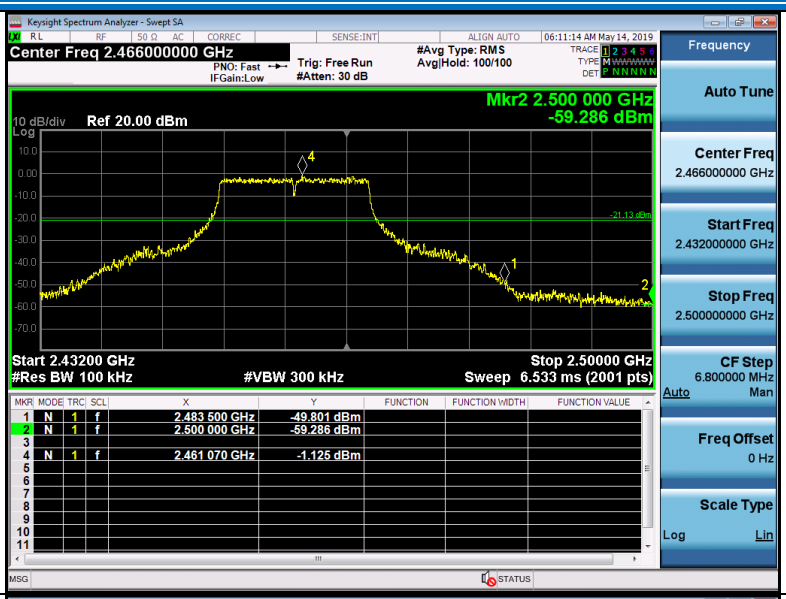
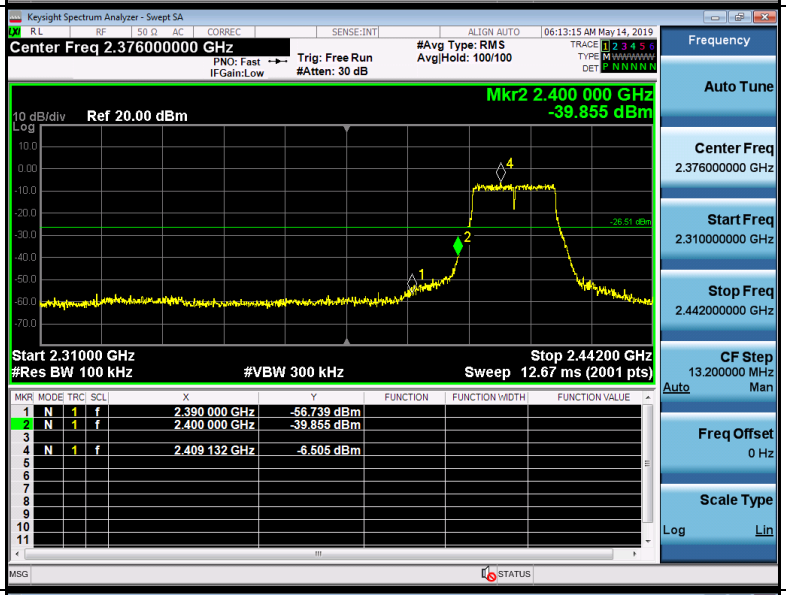
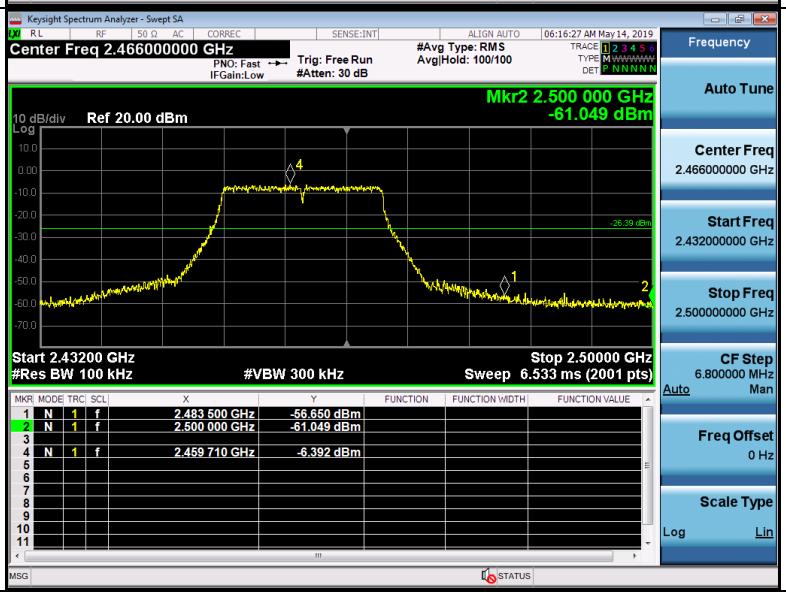
11N40/LCH		
11N40/MCH		
11N40/HCH		

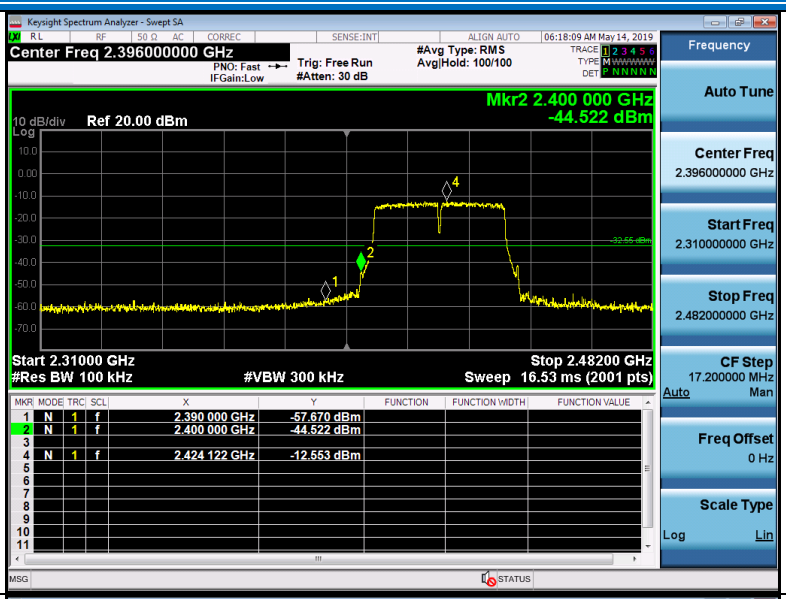
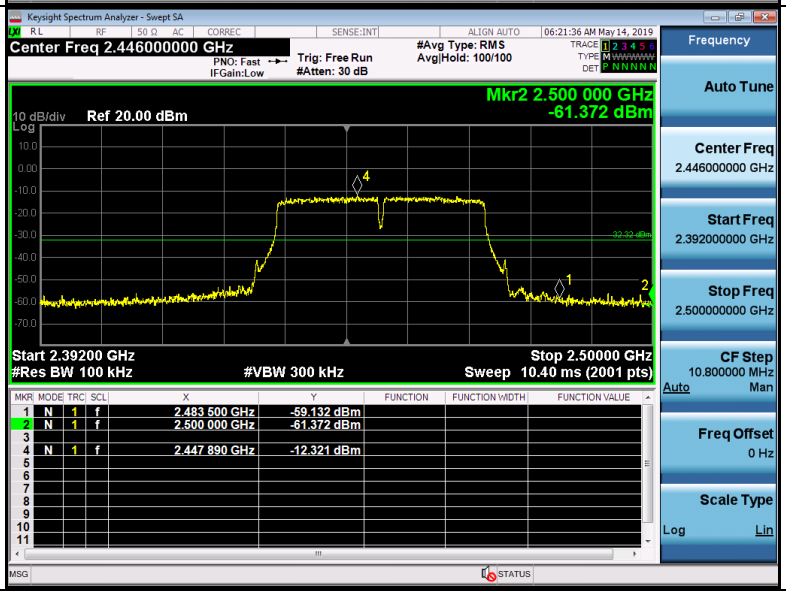
6.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40); Only the worst case is recorded in the report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

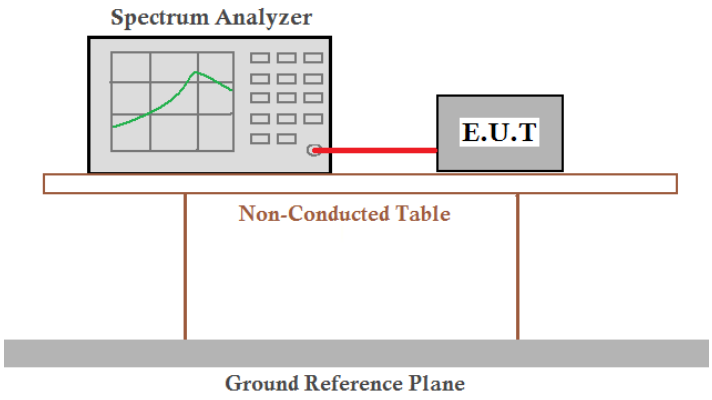
Test plot as follows:

Graphs		
11B/LCH		
11B/HCH		
11G/LCH		

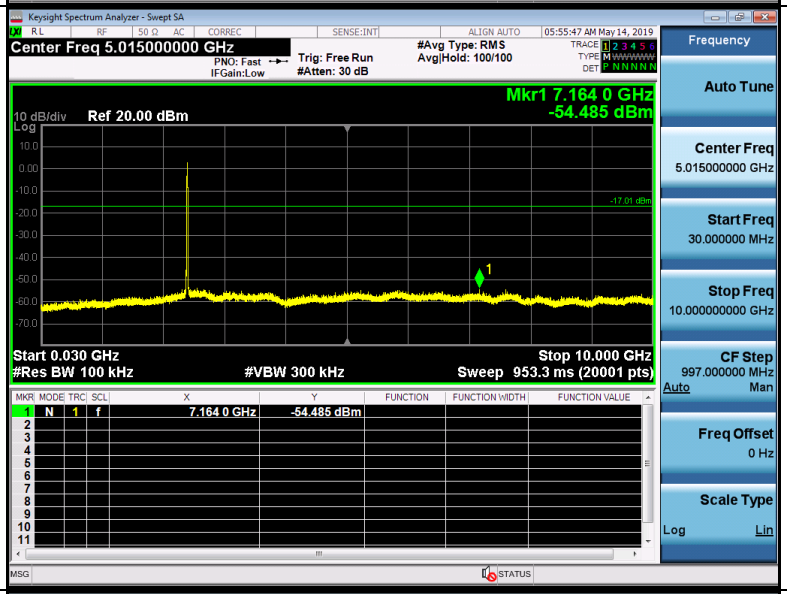
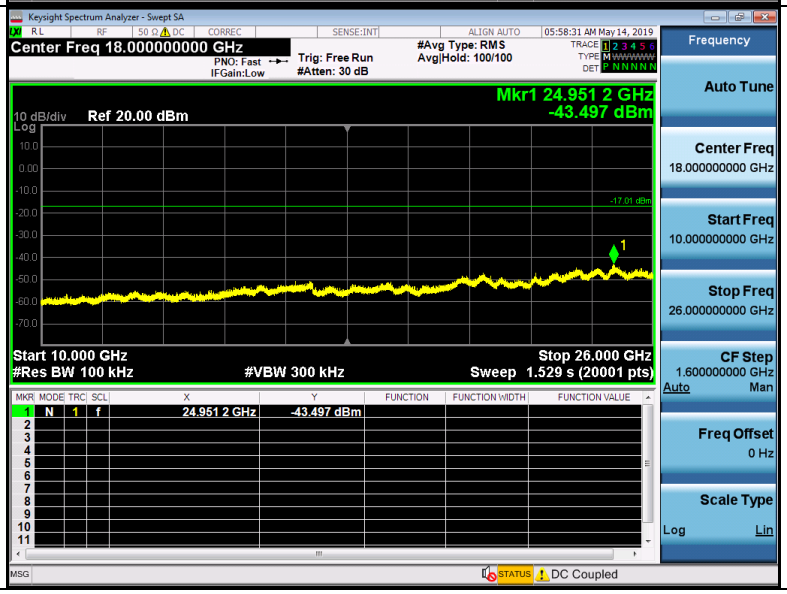
11G/HCH		
11N20/LCH		
11N20/HCH		

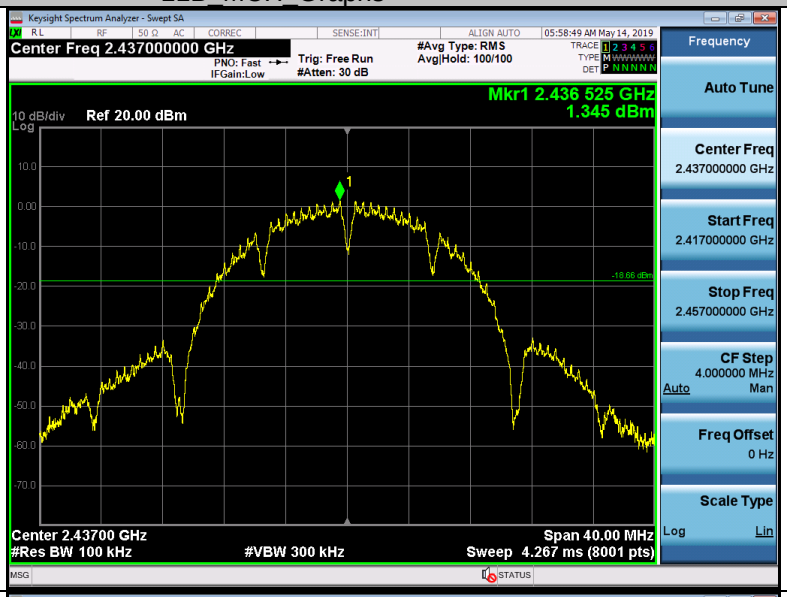
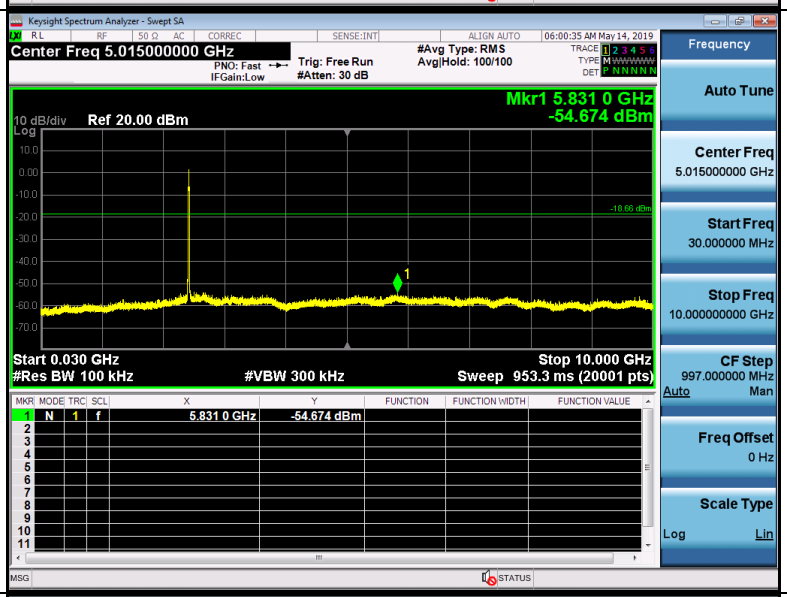
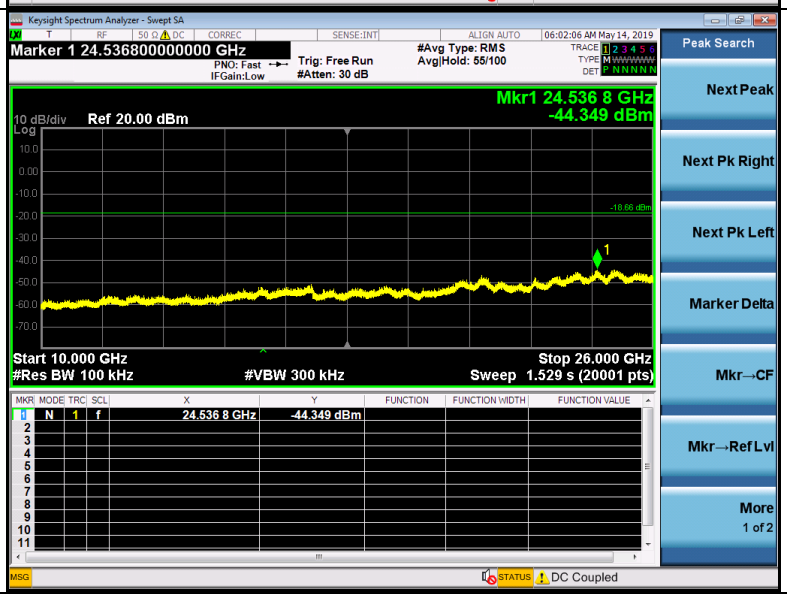
11N40/LCH	
11N40/HCH		

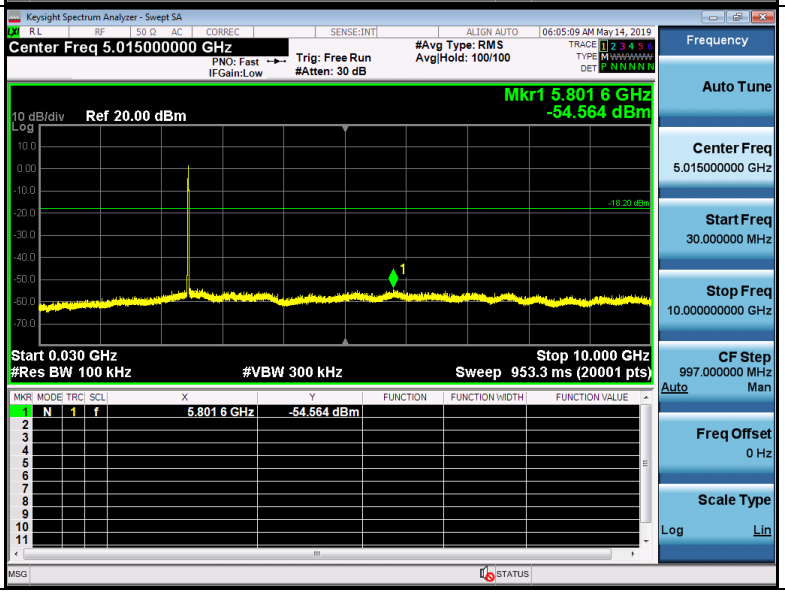
6.7 RF Conducted Spurious Emissions

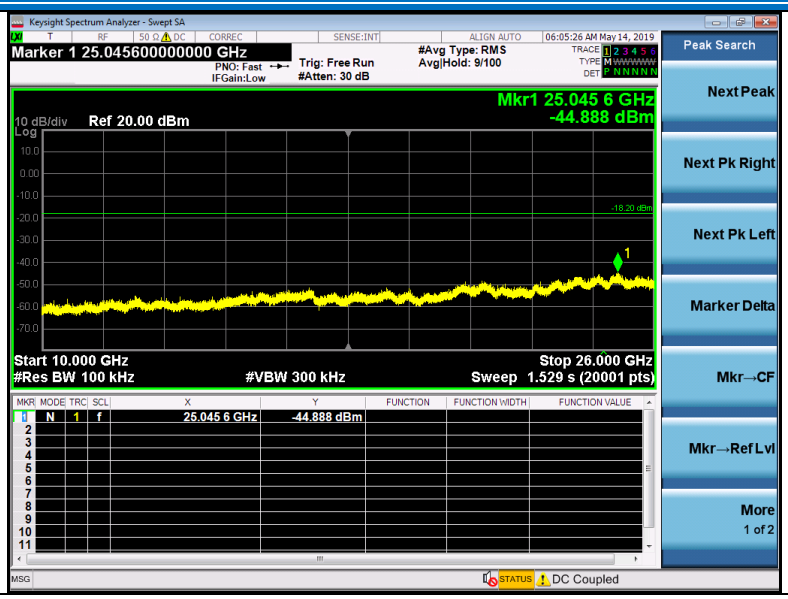
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40); Only the worst case is recorded in the report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

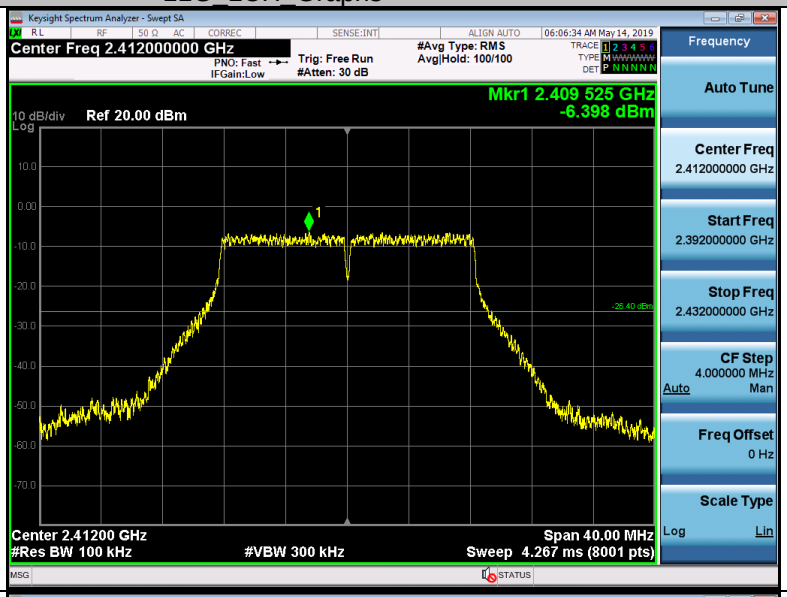
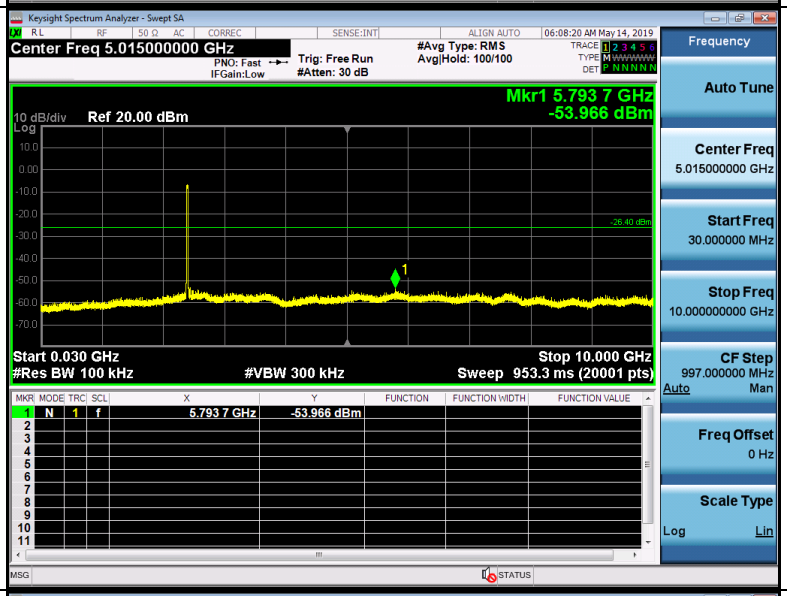
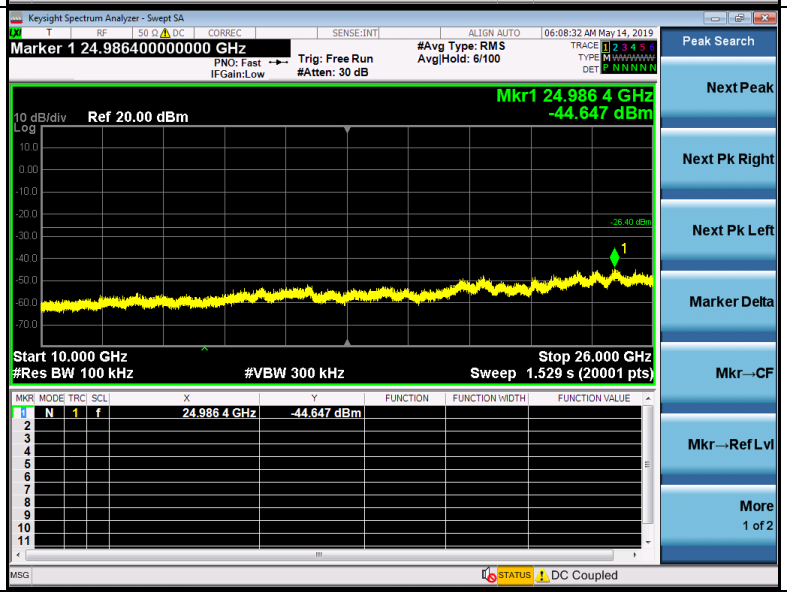
Test plot as follows:

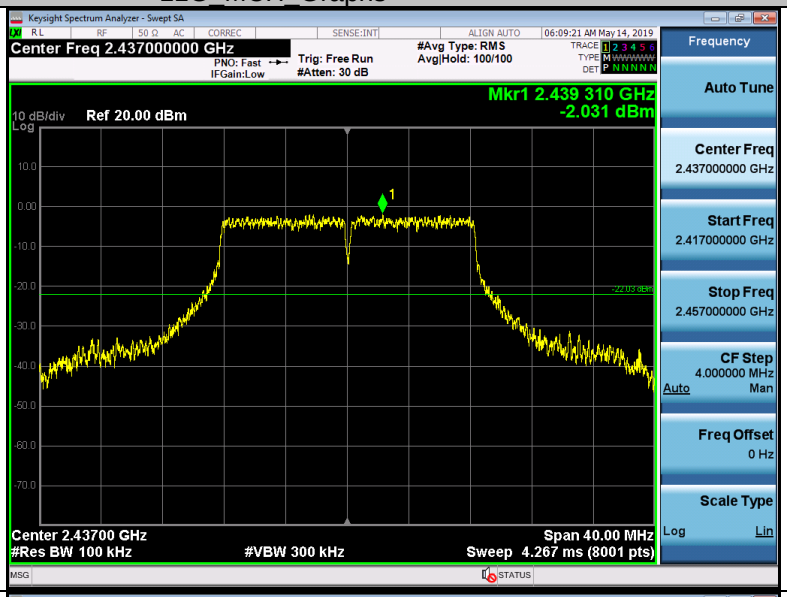
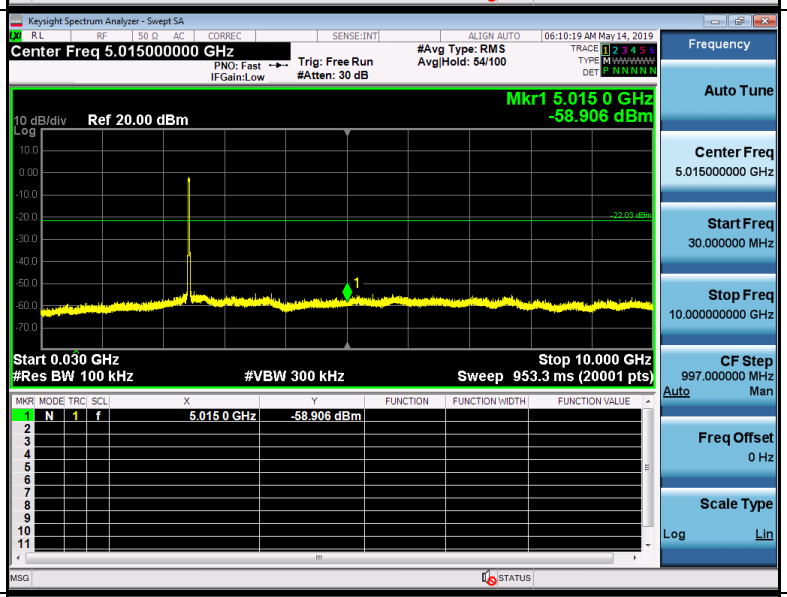
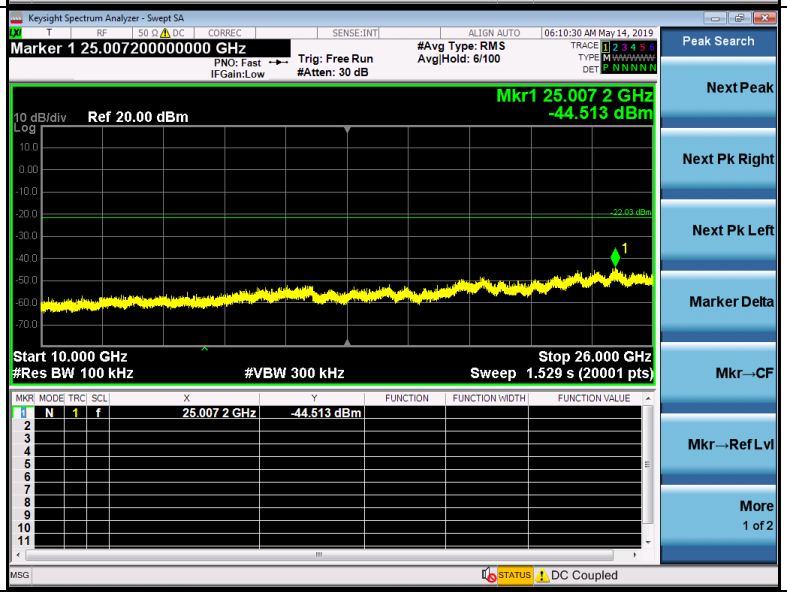
11B_LCH_Graphs		
Reference		
30MHz-10GHz		
10GHz-25GHz		

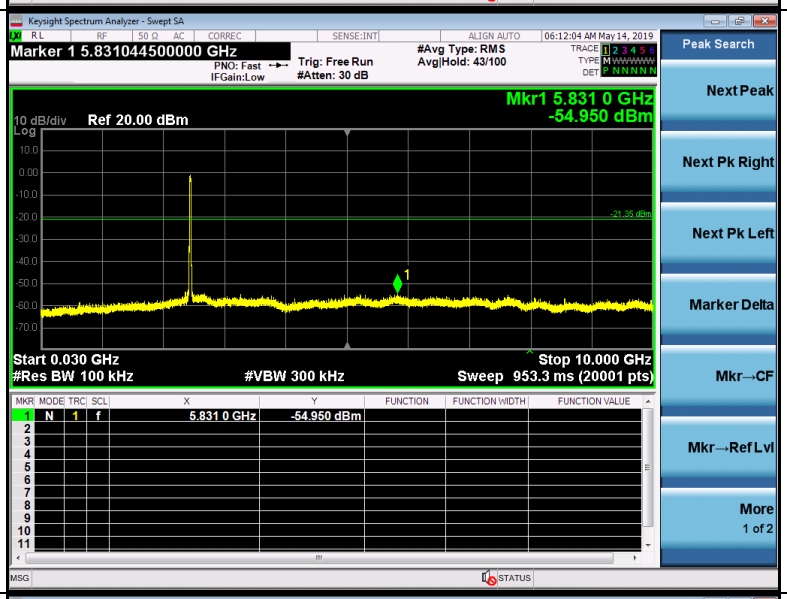
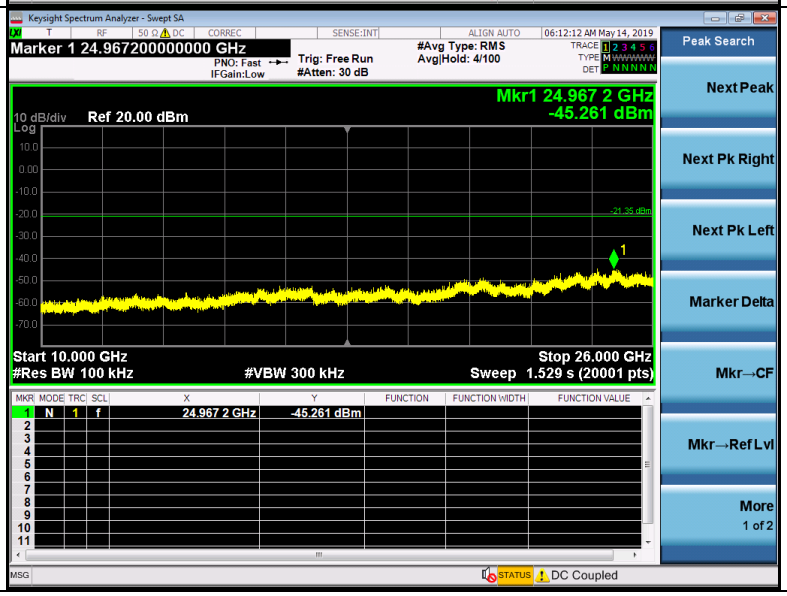
11B_MCH_Graphs		
Reference		
30MHz-10GHz		
10GHz-26GHz		

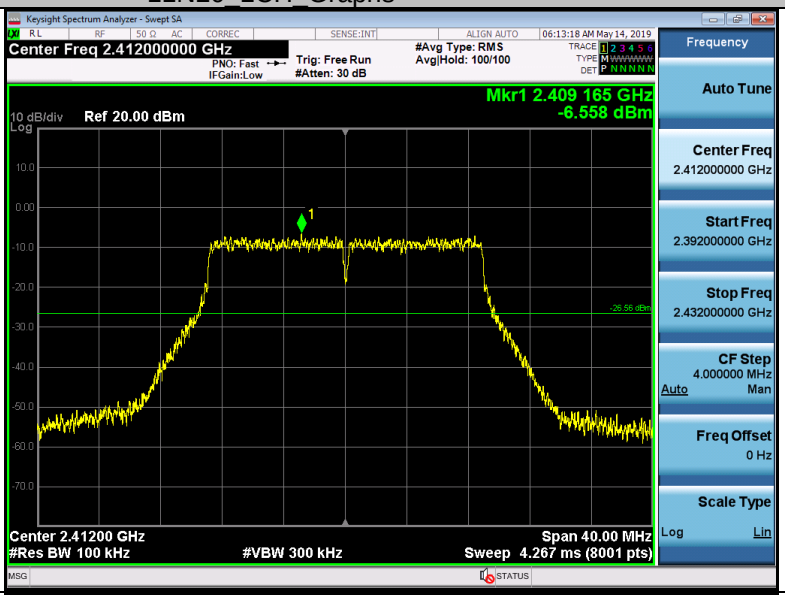
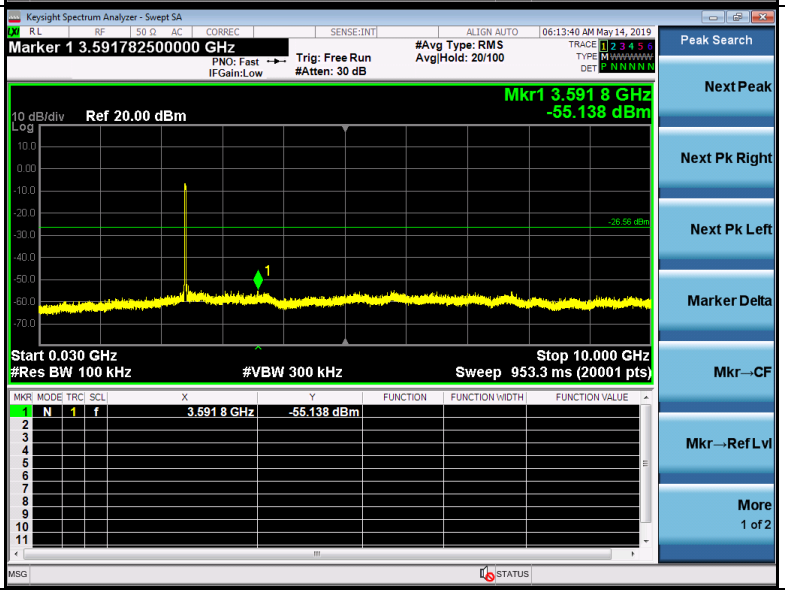
11B_HCH_Graphs			
Reference			
30MHz-10GHz			

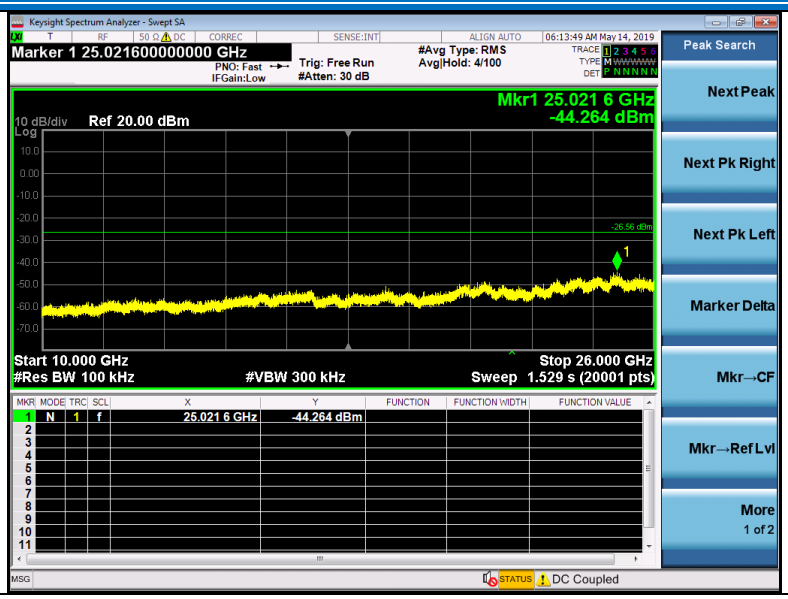
10GHz-26GHz	 Keysight Spectrum Analyzer - Swept SA Marker 1 25.045600000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS Avg|Hold: 9/100 06:05:26 AM May 14, 2019 Mkr1 25.045 6 GHz -44.888 dBm 10 dB/div Log Ref 20.00 dBm -18.20 dBm Start 10.000 GHz #Res BW 100 kHz #VBW 300 kHz Stop 26.000 GHz Sweep 1.529 s (20001 pts) 1 N 1 f 25.045 6 GHz -44.888 dBm Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvl More 1 of 2 DC Coupled	

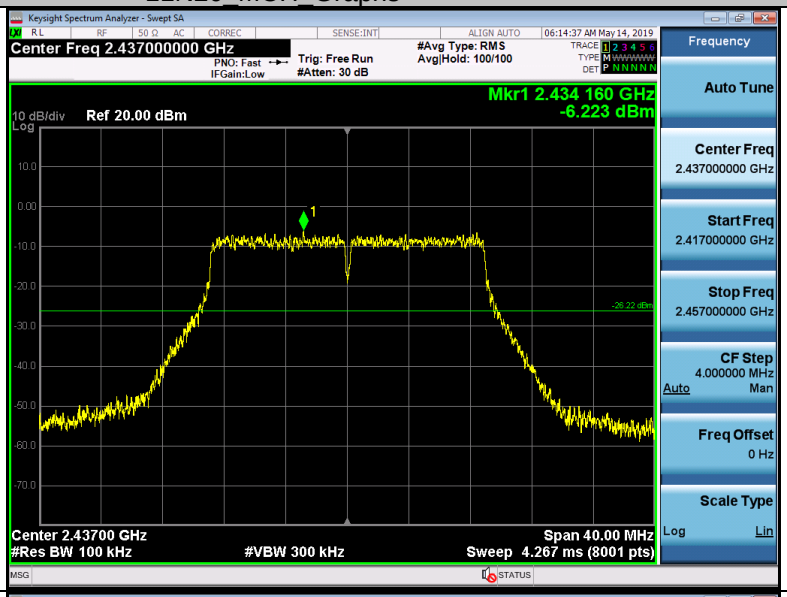
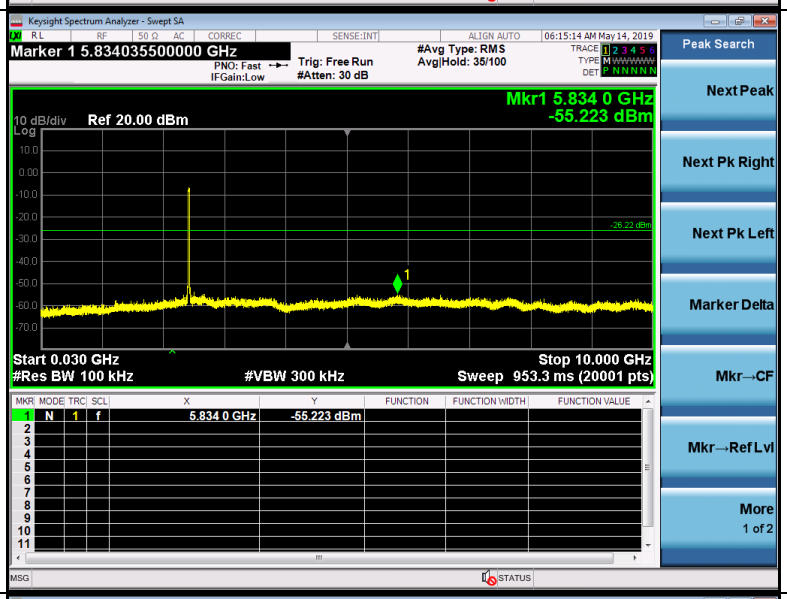
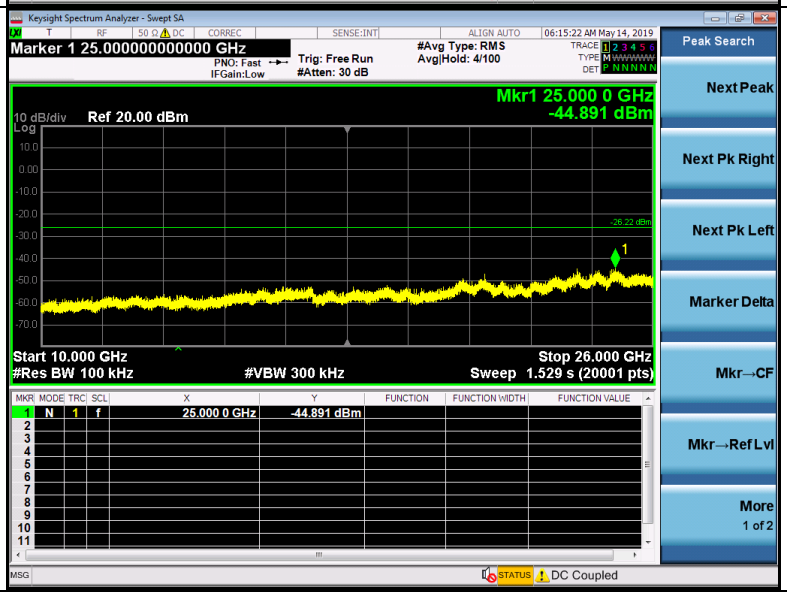
11G_LCH_Graphs		
Reference		
30MHz-10GHz		
10GHz-26GHz		

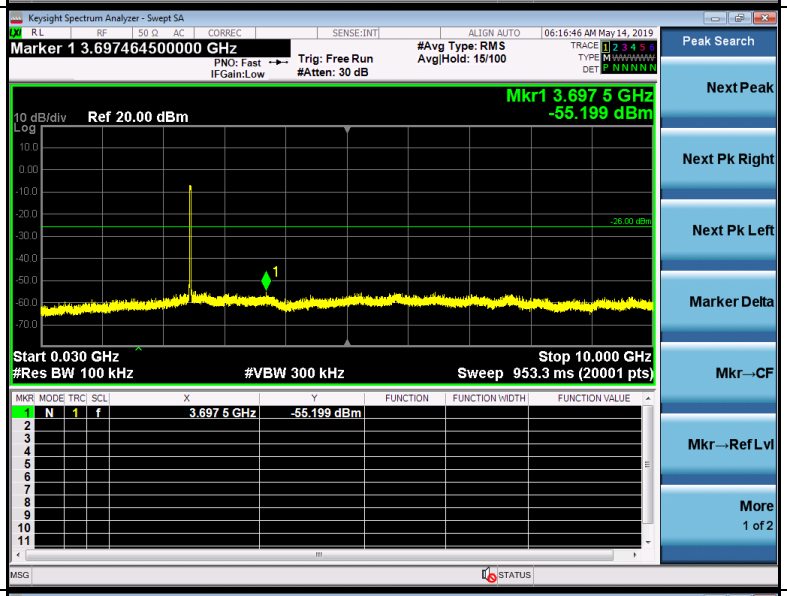
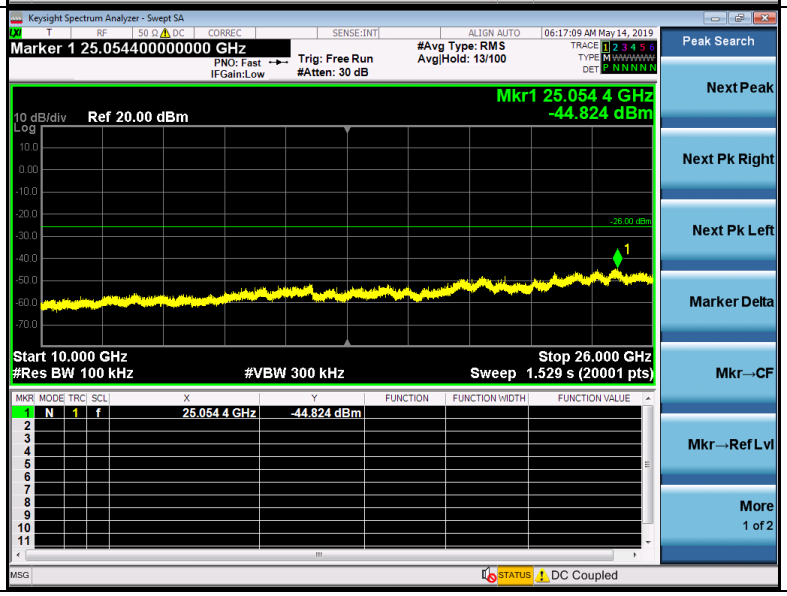
11G_MCH_Graphs		
Reference		
30MHz-10GHz		
10GHz-26GHz		

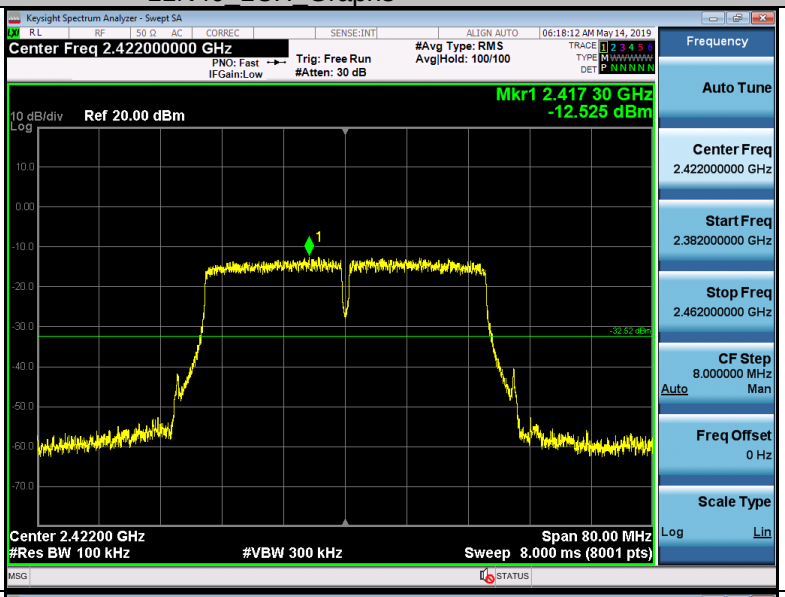
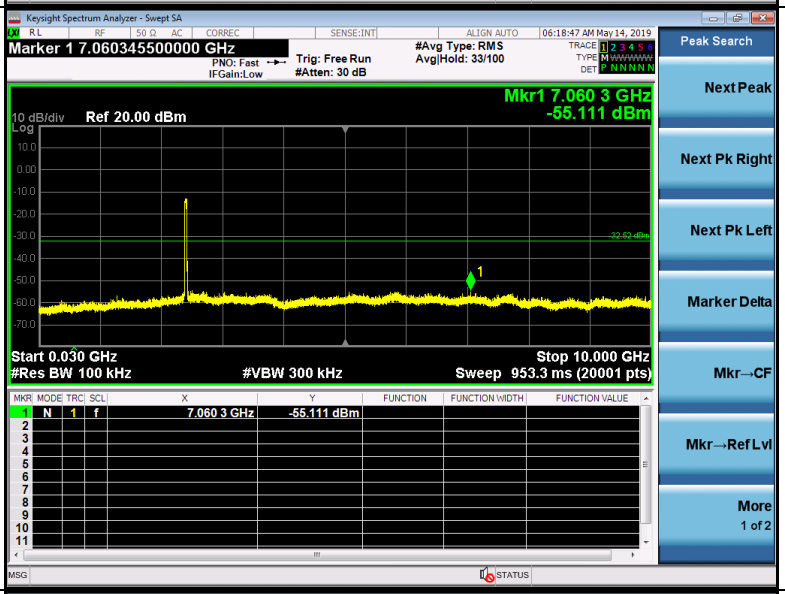
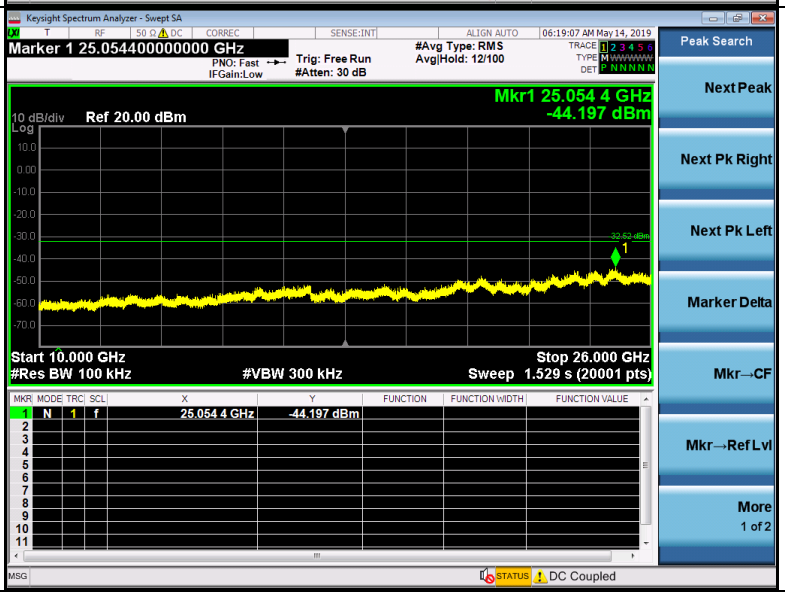
11G_HCH_Graphs		
Reference		
30MHz-10GHz		
10GHz-26GHz		

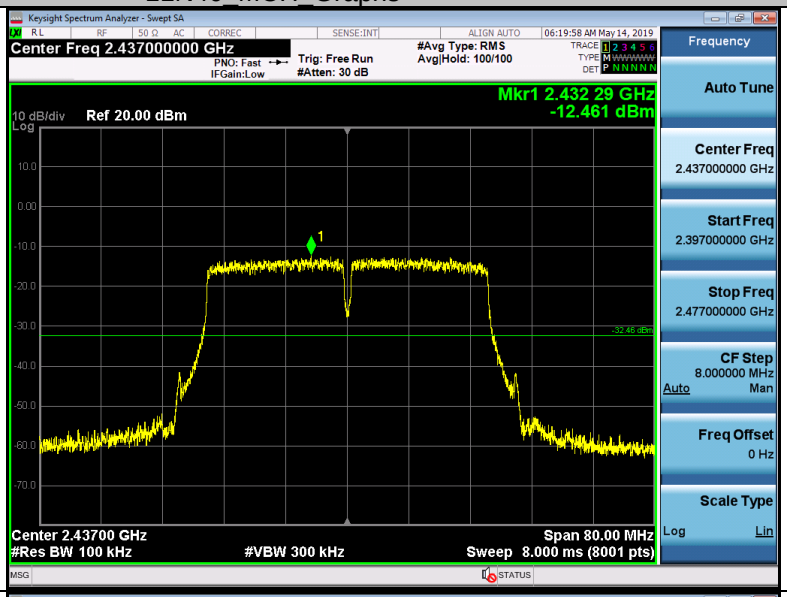
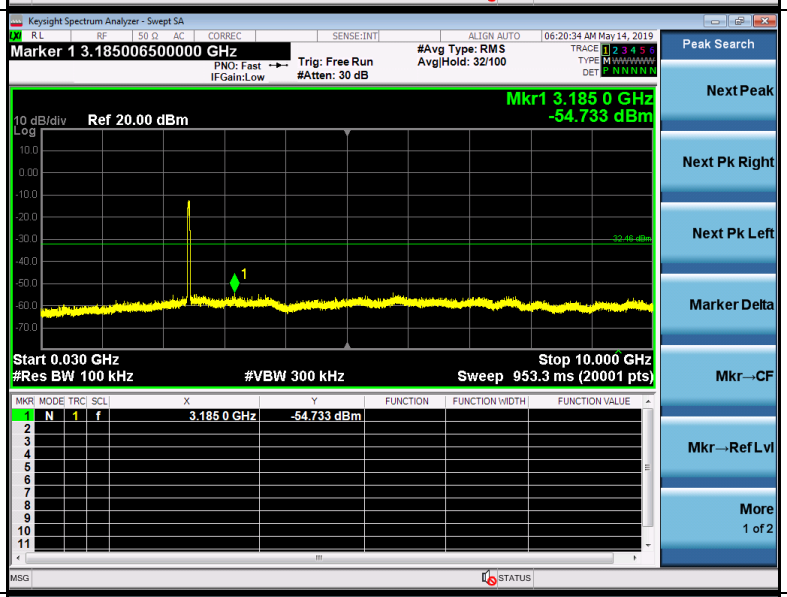
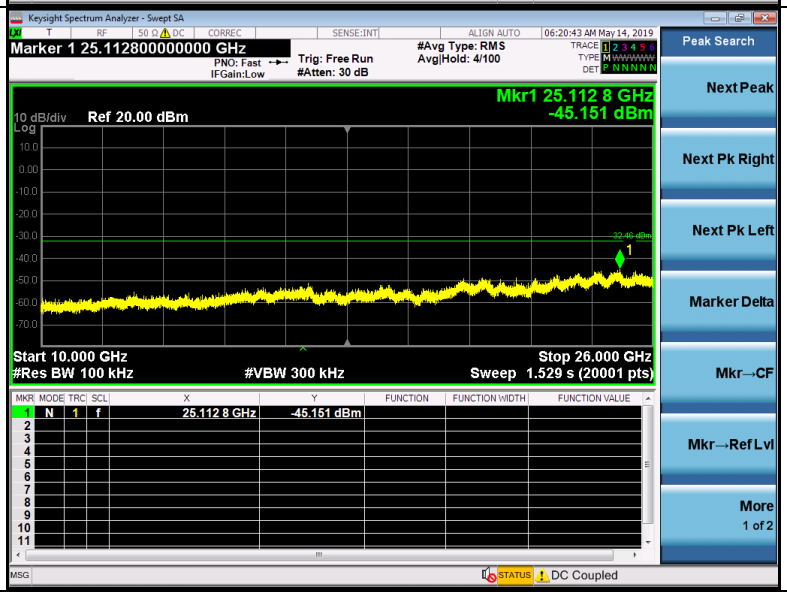
11N20_LCH_Graphs			
Reference			
30MHz-10GHz			

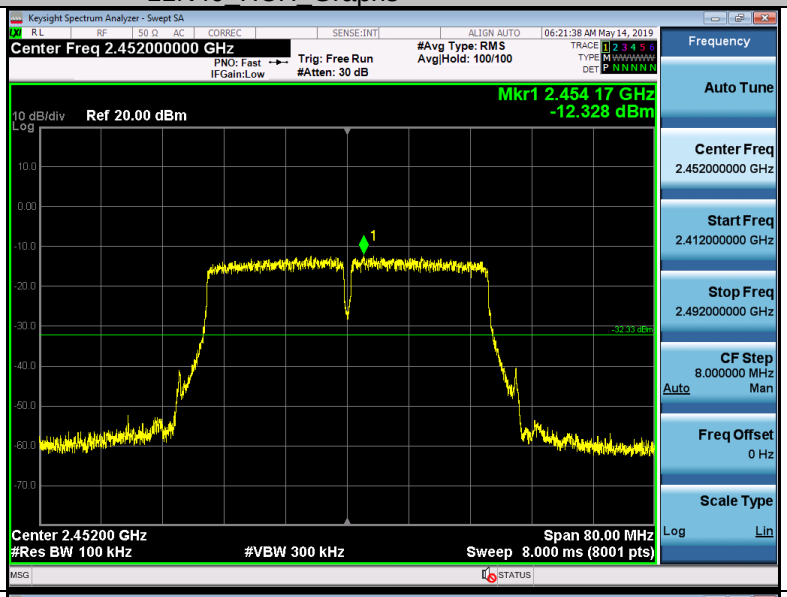
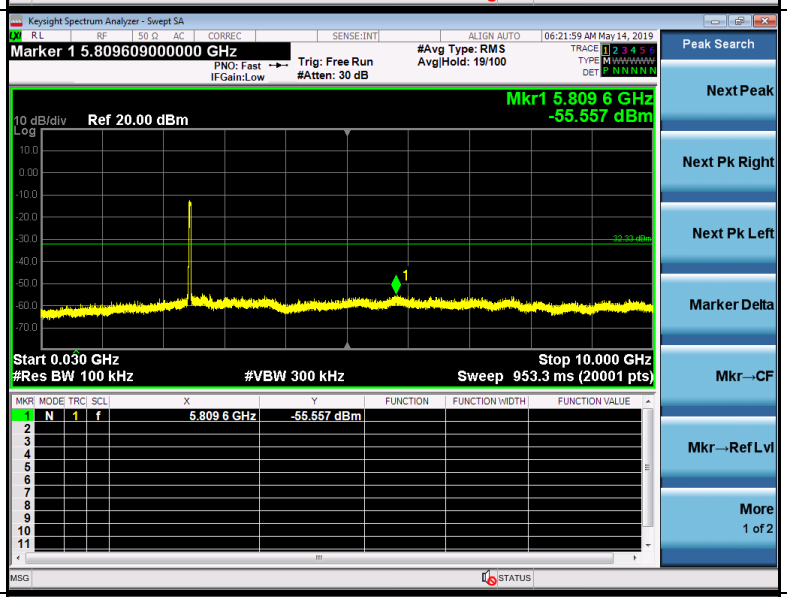
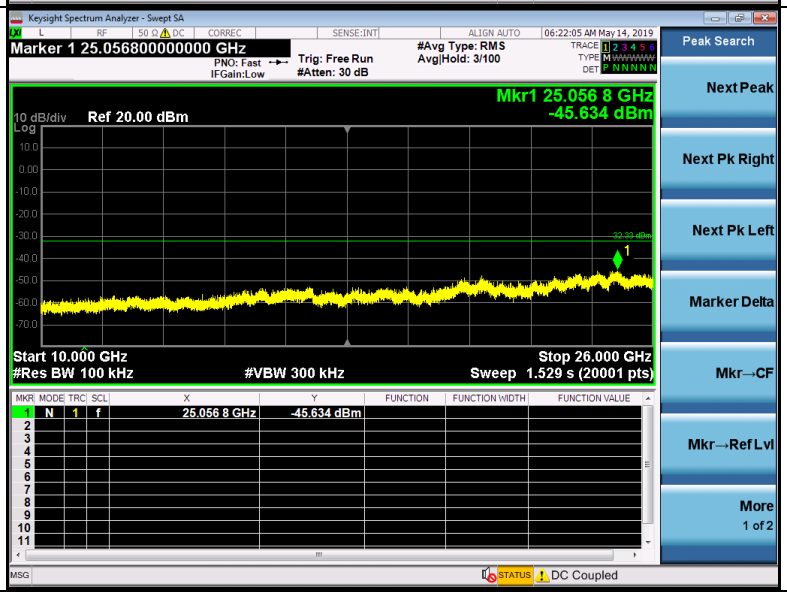
10GHz-26GHz	 Keysight Spectrum Analyzer - Swept SA Marker 1 25.021600000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS Avg|Hold: 4/100 06:13:49 AM May 14, 2019 Mkr1 25.021 6 GHz -44.264 dBm 10 dB/div Log Ref 20.00 dBm -26.56 dBm Start 10.000 GHz #Res BW 100 kHz #VBW 300 kHz Stop 26.000 GHz Sweep 1.529 s (20001 pts) 1 N 1 f 25.021 6 GHz -44.264 dBm Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvl More 1 of 2 DC Coupled	

11N20_MCH_Graphs		
Reference		
30MHz-10GHz		
10GHz-26GHz		

11N20_HCH_Graphs		
Reference		
30MHz-10GHz		
10GHz-26GHz		

11N40_LCH_Graphs		
Reference		
30MHz-10GHz		
10GHz-26GHz		

11N40_MCH_Graphs		
Reference		
30MHz-10GHz		
10GHz-26GHz		

11N40_HCH_Graphs		
Reference		
30MHz-10GHz		
10GHz-26GHz		

Remark:

Pretest 9kHz to 26GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

6.8 Radiated Spurious Emissions

<table>
<tr><td>Test Requirement:</td><td>47 CFR Part 15C Section 15.209 and 15.205</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10 2013</td></tr>
<tr><td>Test Site:</td><td>Measurement Distance: 3m (Semi-Anechoic Chamber)</td></tr>
<tr><td>Receiver Setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr>
<tr><td>0.009MHz-0.090MHz</td><td>Peak</td><td>10kHz</td><td>30kHz</td><td>Peak</td></tr>
<tr><td>0.009MHz-0.090MHz</td><td>Average</td><td>10kHz</td><td>30kHz</td><td>Average</td></tr>
<tr><td>0.090MHz-0.110MHz</td><td>Quasi-peak</td><td>10kHz</td><td>30kHz</td><td>Quasi-peak</td></tr>
<tr><td>0.110MHz-0.490MHz</td><td>Peak</td><td>10kHz</td><td>30kHz</td><td>Peak</td></tr>
<tr><td>0.110MHz-0.490MHz</td><td>Average</td><td>10kHz</td><td>30kHz</td><td>Average</td></tr>
<tr><td>0.490MHz -30MHz</td><td>Quasi-peak</td><td>10kHz</td><td>30kHz</td><td>Quasi-peak</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100 kHz</td><td>300kHz</td><td>Quasi-peak</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak</td></tr>
<tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th>Frequency</th><th>Field strength (microvolt/meter)</th><th>Limit (dBuV/m)</th><th>Remark</th><th>Measurement distance (m)</th></tr>
<tr><td>0.009MHz-0.490MHz</td><td>2400/F(kHz)</td><td>-</td><td>-</td><td>300</td></tr>
<tr><td>0.490MHz-1.705MHz</td><td>24000/F(kHz)</td><td>-</td><td>-</td><td>30</td></tr>
<tr><td>1.705MHz-30MHz</td><td>30</td><td>-</td><td>-</td><td>30</td></tr>
<tr><td>30MHz-88MHz</td><td>100</td><td>40.0</td><td>Quasi-peak</td><td>3</td></tr>
<tr><td>88MHz-216MHz</td><td>150</td><td>43.5</td><td>Quasi-peak</td><td>3</td></tr>
<tr><td>216MHz-960MHz</td><td>200</td><td>46.0</td><td>Quasi-peak</td><td>3</td></tr>
<tr><td>960MHz-1GHz</td><td>500</td><td>54.0</td><td>Quasi-peak</td><td>3</td></tr>
<tr><td>Above 1GHz</td><td>500</td><td>54.0</td><td>Average</td><td>3</td></tr>
</table>
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.
</td></tr>
</table>

Test Setup:	

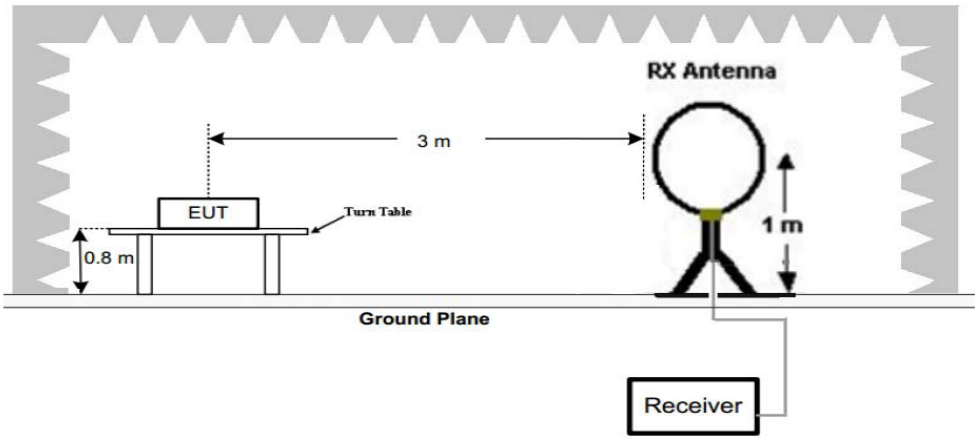


Figure 1. Below 30MHz

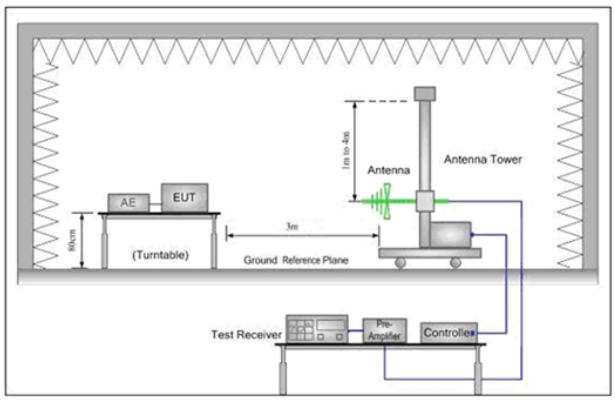


Figure 2. 30MHz to 1GHz

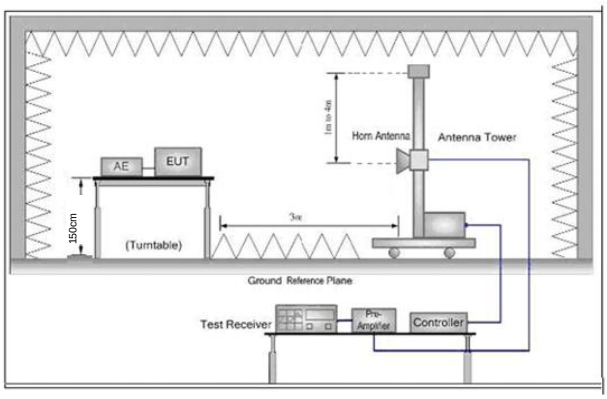


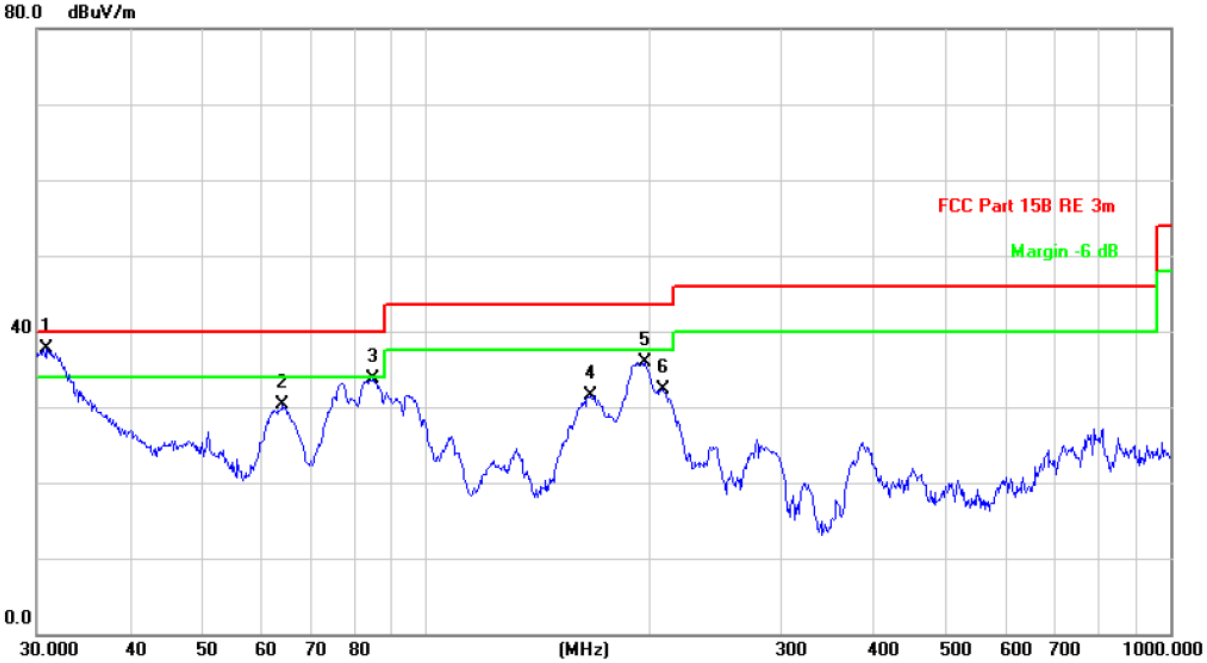
Figure 3. Above 1 GHz

Test Procedure:	a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. Note: For the radiated emission test above 1GHz: Place the measurement antenna 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 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. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for

	the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel h. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Transmitting mode
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40) For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case. Only the worst case is recorded in the report.
Test Results:	Pass

6.8.1 Radiated emission below 1GHz

30MHz~1GHz		
Test mode:	Transmitting	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	30.9619	43.40	-5.71	37.69	40.00	-4.25	QP	100	251	
2		64.2074	49.07	-18.81	30.26	40.00	-10.72	QP	100	232	
3		84.7019	52.07	-18.39	33.68	40.00	-8.27	QP	100	124	
4		166.6514	44.88	-13.34	31.54	43.50	-12.82	QP	100	23	
5		196.5098	49.57	-13.68	35.89	43.50	-9.88	QP	100	48	
6		208.5803	46.59	-14.28	32.31	43.50	-12.53	QP	100	16	

Remark:

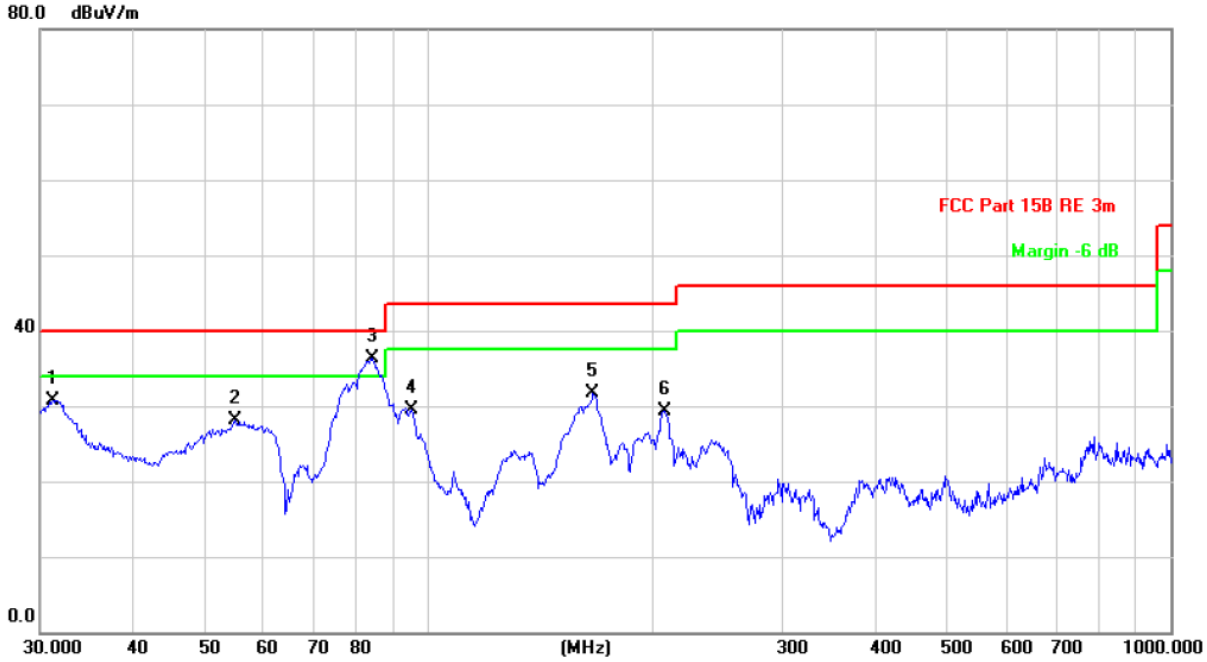
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		31.1798	36.62	-5.88	30.74	40.00	-10.23	QP	200	126	
2		54.8348	47.33	-19.17	28.16	40.00	-12.83	QP	200	151	
3	*	84.1100	54.70	-18.45	36.25	40.00	-5.78	QP	200	14	
4		95.0930	45.68	-16.19	29.49	43.50	-15.25	QP	200	48	
5		166.6514	45.06	-13.34	31.72	43.50	-12.72	QP	200	186	
6		207.8501	43.48	-14.18	29.30	43.50	-15.36	QP	200	291	

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

6.8.2 Transmitter emission above 1GHz

Test mode:		802.11b(1Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4824.000	60.50	-4.26	56.24	74	-17.76	PK	H
4824.000	41.08	-4.26	36.82	54	-17.18	AV	H
7236.000	63.16	1.18	64.34	74	-9.66	PK	H
7236.000	40.03	1.18	41.21	54	-12.79	AV	H
4824.000	59.47	-4.26	55.21	74	-18.79	PK	V
4824.000	39.34	-4.26	35.08	54	-18.92	AV	V
7236.000	63.73	1.18	64.91	74	-9.09	PK	V
7236.000	41.27	1.18	42.45	54	-11.55	AV	V

Test mode:		802.11b(1Mbps)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4874.000	59.55	-4.12	55.43	74	-18.57	PK	H
4874.000	39.35	-4.12	35.23	54	-18.77	AV	H
7311.000	60.88	1.46	62.34	74	-11.66	PK	H
7311.000	42.20	1.46	43.66	54	-10.34	AV	H
4874.000	63.66	-4.12	59.54	74	-14.46	PK	V
4874.000	39.74	-4.12	35.62	54	-18.38	AV	V
7311.000	59.06	1.46	60.52	74	-13.48	PK	V
7311.000	41.97	1.46	43.43	54	-10.57	AV	V

Test mode:		802.11b(1Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4924.000	59.17	-4.03	55.14	74	-18.86	PK	H
4924.000	39.03	-4.03	35.00	54	-19.00	AV	H
7386.000	60.05	1.66	61.71	74	-12.29	PK	H
7386.000	42.03	1.66	43.69	54	-10.31	AV	H
4924.000	61.84	-4.03	57.81	74	-16.19	PK	V
4924.000	41.32	-4.03	37.29	54	-16.71	AV	V
7386.000	61.74	1.66	63.40	74	-10.60	PK	V
7386.000	43.79	1.66	45.45	54	-8.55	AV	V

Remark:

1) The 1Mbps of rate of 802.11b is the worst case, only the worst case was recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

   Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

3) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205
Test Method:	ANSI C63.10 2013
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
	74.0	Peak Value

Test Setup:

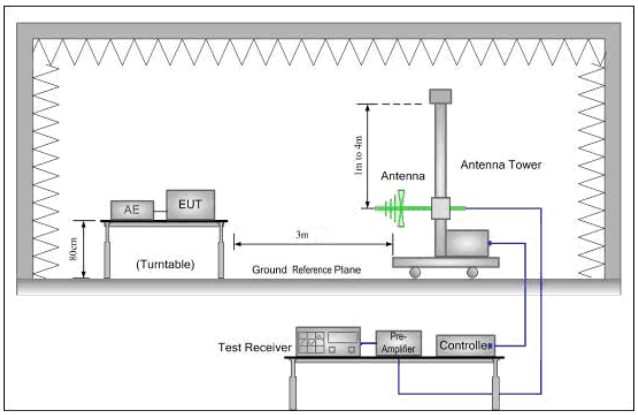


Figure 1. 30MHz to 1GHz

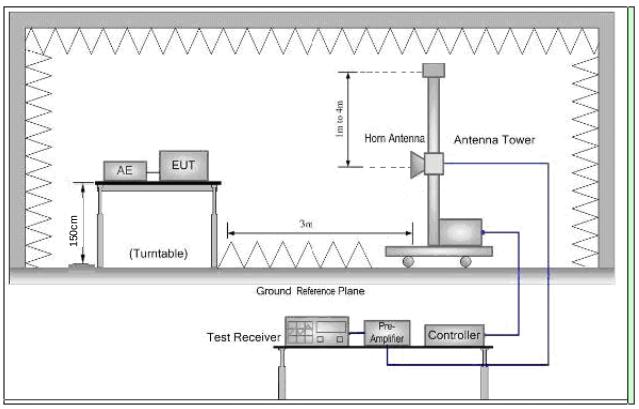


Figure 2. Above 1 GHz

Test Procedure:

a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
Note: For the radiated emission test above 1GHz:

Place the measurement antenna 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 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.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel , the Highest channel h. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Transmitting mode.
Final Test Mode:	Pretest the EUT at Transmitting mode, found the Transmitting mode which it is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report.
Test Results:	Pass

Test data:

Worse case mode:		802.11b(1Mbps)		Test channel:		Lowest	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
2390.000	60.52	-9.2	51.32	74	-22.68	PK	H
2390.000	38.54	-9.2	29.34	54	-24.66	AV	H
2400.000	57.05	-9.39	47.66	74	-26.34	PK	H
2400.000	39.95	-9.39	30.56	54	-23.44	AV	H
2390.000	59.81	-9.2	50.61	74	-23.39	PK	V
2390.000	38.16	-9.2	28.96	54	-25.04	AV	V
2400.000	56.56	-9.39	47.17	74	-26.83	PK	V
2400.000	42.34	-9.39	32.95	54	-21.05	AV	V

Worse case mode:		802.11b(1Mbps)		Test channel:		Highest	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
2483.500	59.99	-9.29	50.70	74	-23.30	PK	H
2483.500	37.74	-9.29	28.45	54	-25.55	AV	H
2483.500	68.50	-9.29	59.21	74	-14.79	PK	V
2483.500	44.53	-9.29	35.24	54	-18.76	AV	V

Worse case mode:		802.11g(6Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2390.000	59.78	-9.2	50.58	74	-23.42	PK	H
2390.000	38.67	-9.2	29.47	54	-24.53	AV	H
2400.000	57.38	-9.39	47.99	74	-26.01	PK	H
2400.000	41.61	-9.39	32.22	54	-21.78	AV	H
2390.000	61.53	-9.2	52.33	74	-21.67	PK	V
2390.000	37.39	-9.2	28.19	54	-25.81	AV	V
2400.000	56.63	-9.39	47.24	74	-26.76	PK	V
2400.000	40.66	-9.39	31.27	54	-22.73	AV	V

Worse case mode:		802.11g(6Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2483.500	58.36	-9.29	49.07	74	-24.93	PK	H
2483.500	37.74	-9.29	28.45	54	-25.55	AV	H
2483.500	59.10	-9.29	49.81	74	-24.19	PK	V
2483.500	38.36	-9.29	29.07	54	-24.93	AV	V

Worse case mode:		802.11n(HT20)(6.5Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2390.000	60.15	-9.29	50.86	74	-23.14	PK	H
2390.000	37.13	-9.29	27.84	54	-26.16	AV	H
2400.000	57.19	-9.29	47.90	74	-26.10	PK	H
2400.000	40.59	-9.29	31.30	54	-22.70	AV	H
2390.000	60.24	-9.29	50.95	74	-23.05	PK	V
2390.000	37.16	-9.29	27.87	54	-26.13	AV	V
2400.000	59.19	-9.29	49.90	74	-24.10	PK	V
2400.000	41.31	-9.29	32.02	54	-21.98	AV	V

Worse case mode:		802.11n(HT20)(6.5Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2483.500	59.00	-9.29	49.71	74	-24.29	PK	H
2483.500	37.27	-9.29	27.98	54	-26.02	AV	H
2483.500	61.78	-9.29	52.49	74	-21.51	PK	V
2483.500	37.40	-9.29	28.11	54	-25.89	AV	V

Worse case mode:		802.11n(HT40)(13.5Mbps)		Test channel:		Lowest	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
2390.000	59.68	-9.2	50.48	74	-23.52	PK	H
2390.000	38.68	-9.2	29.48	54	-24.52	AV	H
2400.000	58.41	-9.39	49.02	74	-24.98	PK	H
2400.000	41.56	-9.39	32.17	54	-21.83	AV	H
2390.000	58.53	-9.2	49.33	74	-24.67	PK	V
2390.000	37.46	-9.2	28.26	54	-25.74	AV	V
2400.000	58.46	-9.39	49.07	74	-24.93	PK	V
2400.000	40.51	-9.39	31.12	54	-22.88	AV	V

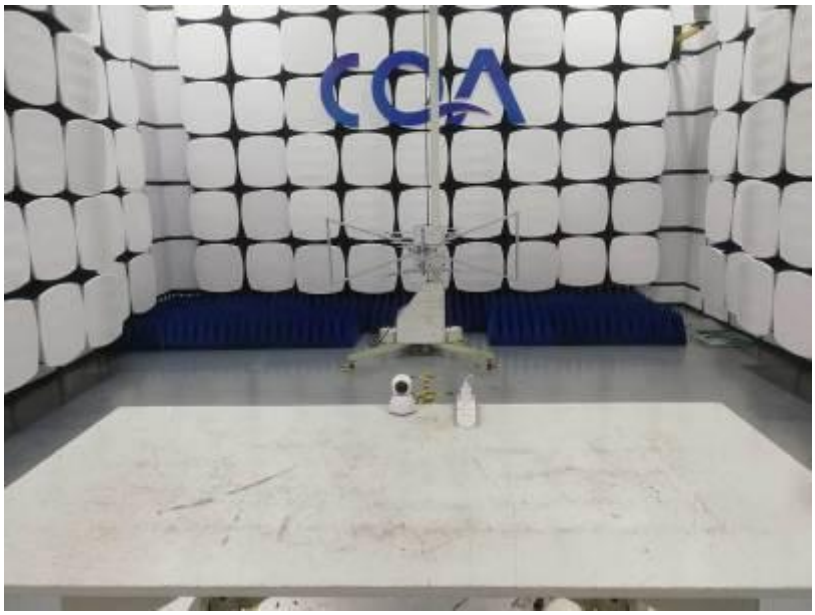
Worse case mode:		802.11n(HT40)(13.5Mbps)		Test channel:		Highest	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
2483.500	63.55	-9.2	54.35	74	-19.65	PK	H
2483.500	42.88	-9.2	33.68	54	-20.32	AV	H
2483.500	61.10	-9.29	51.81	74	-22.19	PK	V
2483.500	42.46	-9.29	33.17	54	-20.83	AV	V

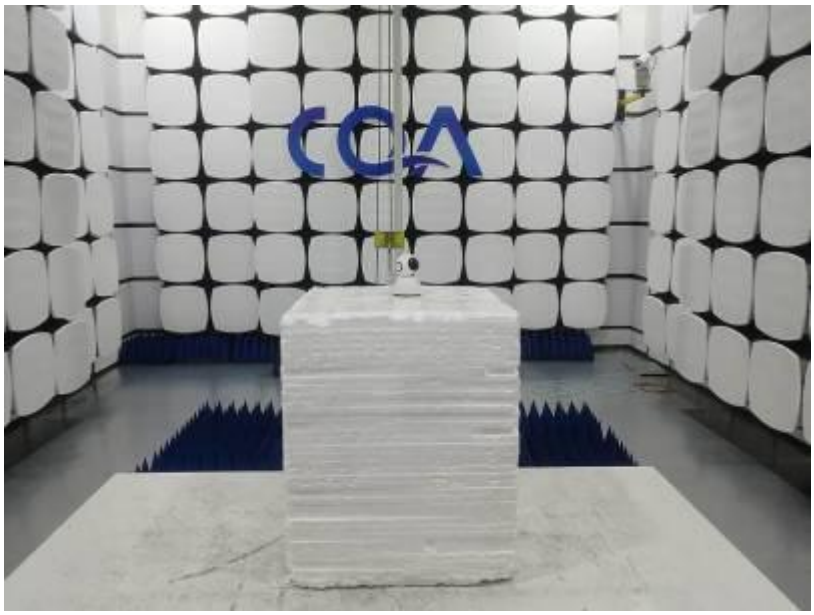
Note:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

7 Photographs - EUT Test Setup

7.1 Radiated Spurious Emission

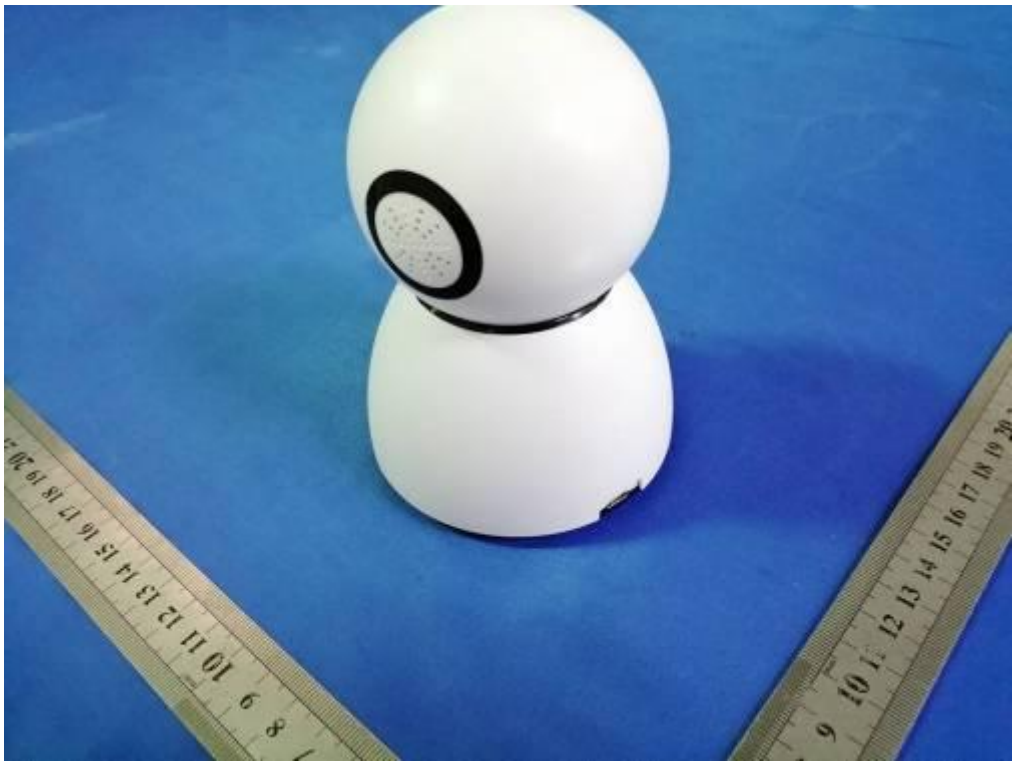


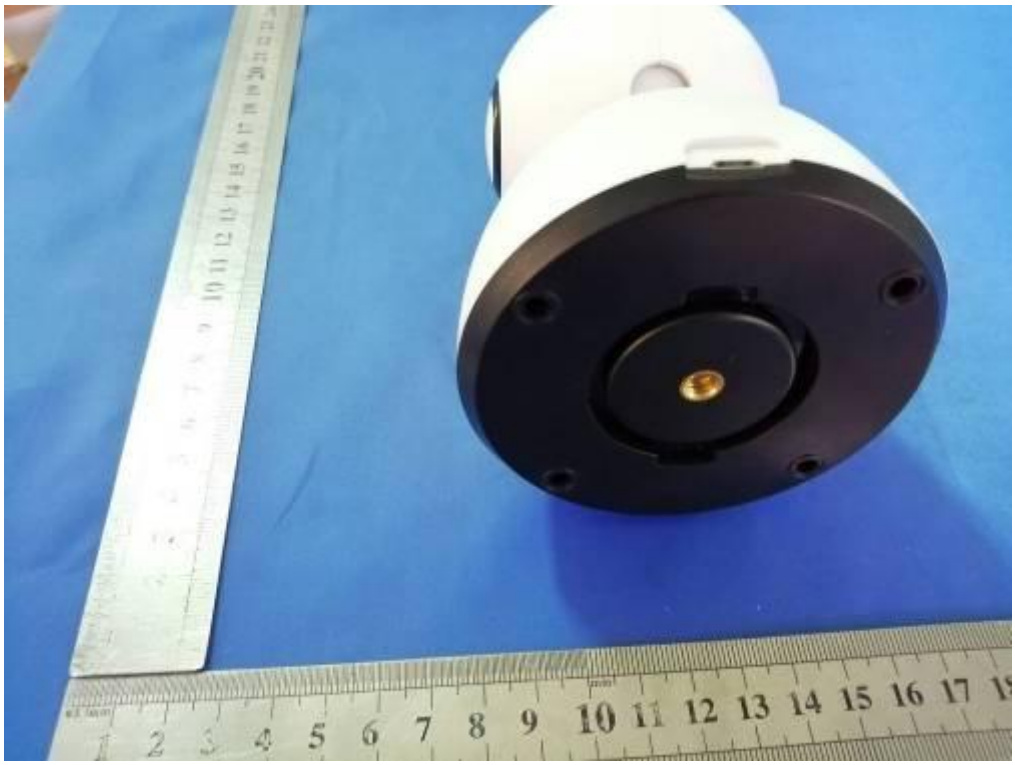


7.2 Conducted Emission

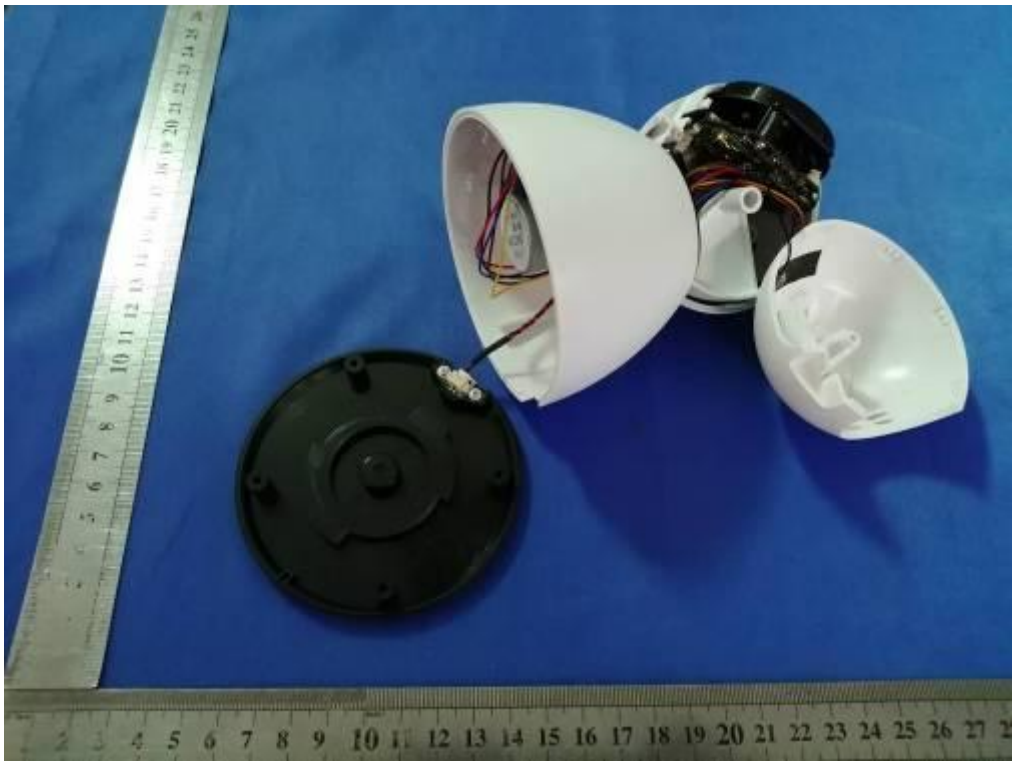
8 Photographs - EUT Constructional Details

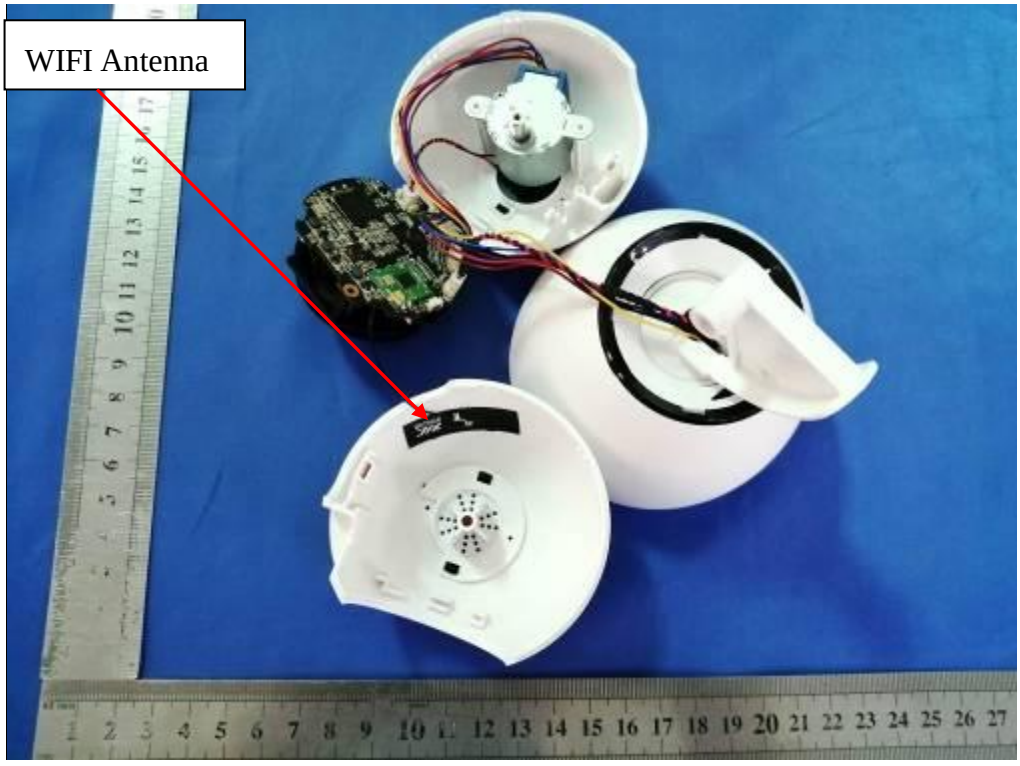
External Photos

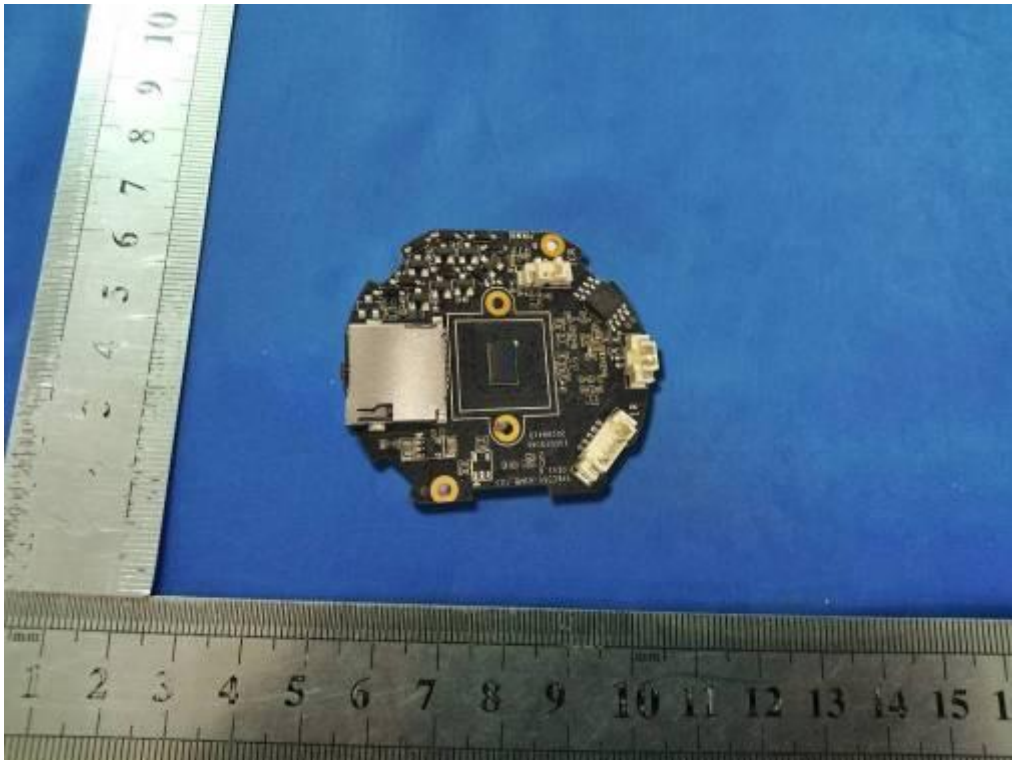


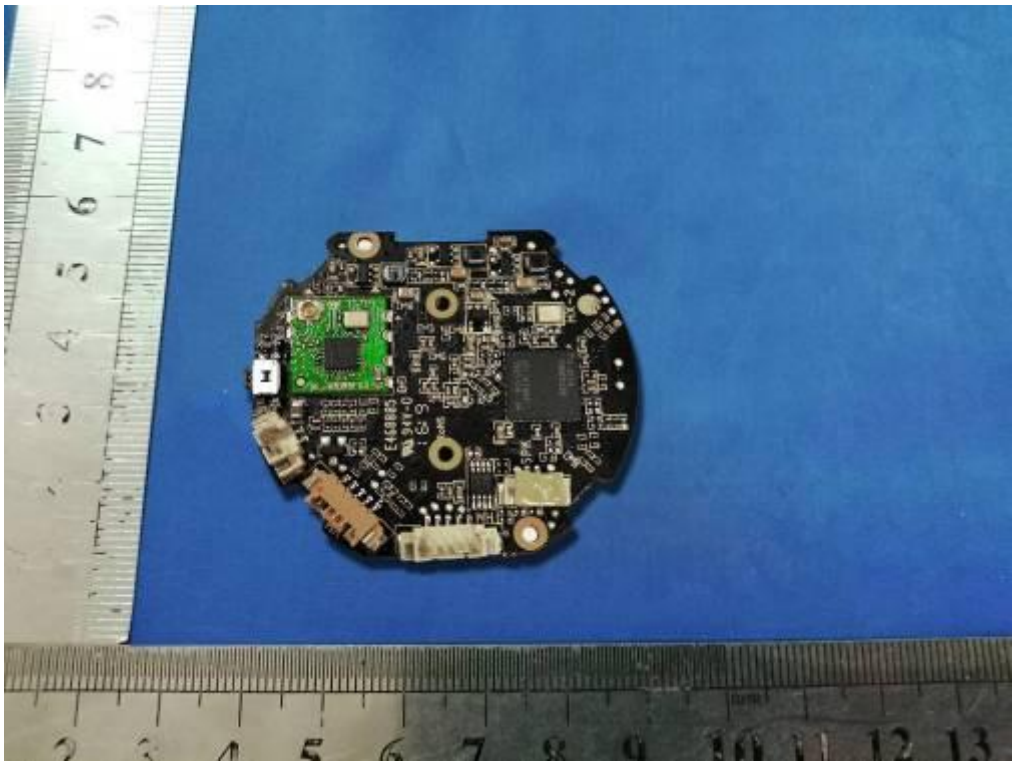


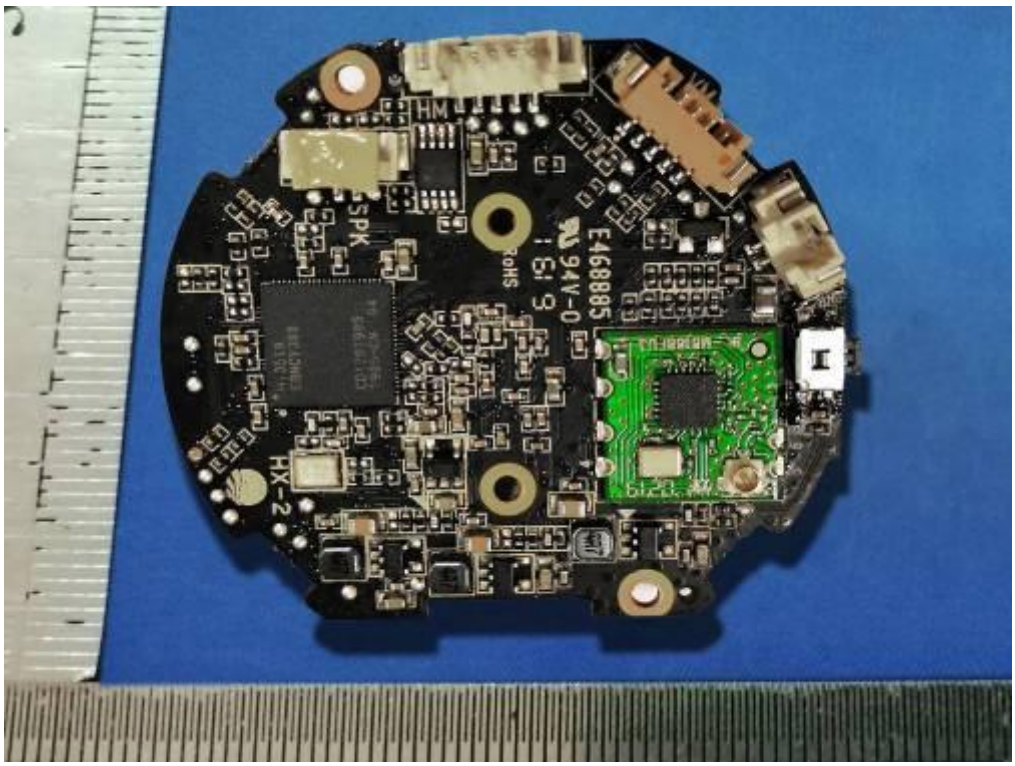
Internal Photos










HM
SPK
RoHS
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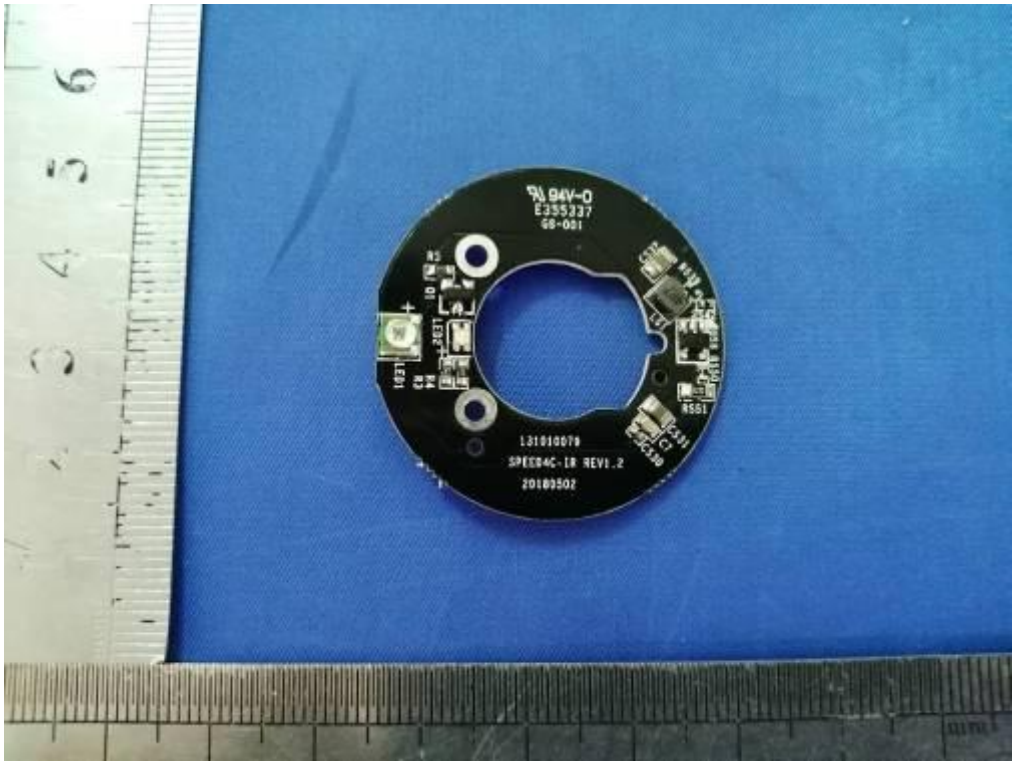
94V-0
HX-2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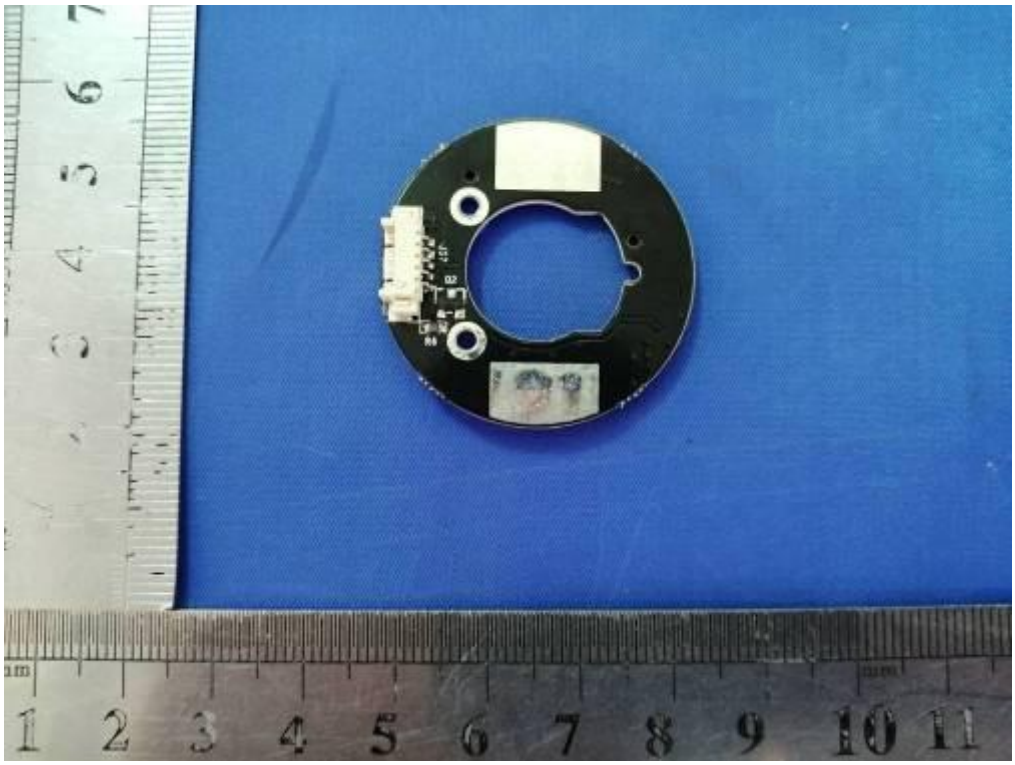
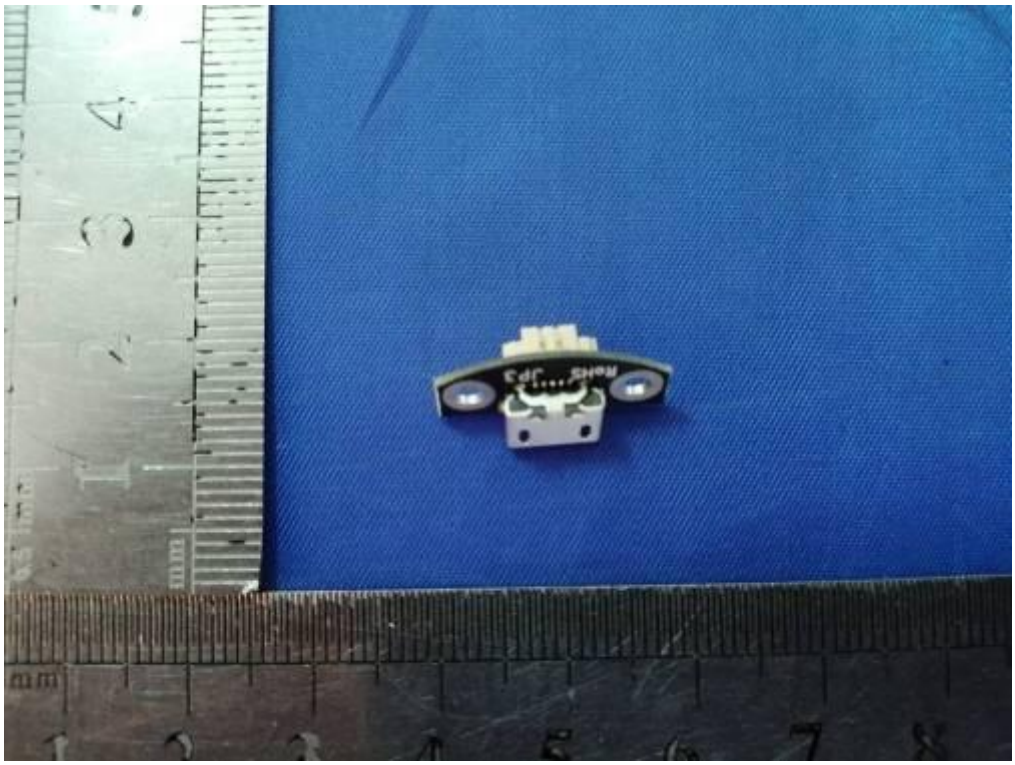
E355237
GB-001
SPEED4C-IR REV1.2





THE END