




TEST REPORT

Report No. : **CHTEW20120056** Report Verification: 

Project No...... : **SHT2011024201EW**

FCC ID..... : **2AFIB-YY52020**

Applicant's name..... : **Shanghai Xiaoyi Technology Co., Ltd.**

Address..... : Building 18,Lane 55, Chuanhe Road,China(shanghai) Pilot Free Trade Zone, Shanghai, China, 201203

Test item description : **YI 1080p Home Camera**

Trade Mark : YI

Model/Type reference..... : YYS.2016

Listed Model(s) : -

Standard : **FCC CFR Title 47 Part 15 Subpart C Section 15.247**

Date of receipt of test sample..... : Nov.11, 2020

Date of testing..... : Nov.11, 2020- Dec.07, 2020

Date of issue..... : Dec.08, 2020

Result..... : **PASS**

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Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- [FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- [ANSI C63.10:2013](#): American National Standard for Testing Unlicensed Wireless Devices
- [KDB 558074 D01 15.247 Meas Guidance v05r02](#): Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

1.2. Report version

Revision No.	Date of issue	Description
N/A	2020-12-08	Original

2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result
5.1	Antenna Requirement	15.203/15.247(c)	PASS
5.2	AC Conducted Emission	15.207	PASS
5.3	Peak Output Power	15.247(b)(3)	PASS
5.4	Power Spectral Density	15.247(e)	PASS
5.5	6dB Bandwidth	15.247(a)(2)	PASS
5.6	99% Occupied Bandwidth	-	PASS ^{*1}
5.7	Duty cycle	-	PASS ^{*1}
5.8	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS
5.9	Radiated Band Edge Emission	15.205/15.209	PASS
5.10	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS

Note:

- The measurement uncertainty is not included in the test result.
- ^{*1}: No requirement on standard, only report these test data.

3. SUMMARY

3.1. Client Information

Applicant:	Shanghai Xiaoyi Technology Co., Ltd.
Address:	Building 18,Lane 55, Chuanhe Road,China(shanghai) Pilot Free Trade Zone, Shanghai, China, 201203
Manufacturer:	Shanghai Xiaoyi Technology Co., Ltd.
Address:	Building 18,Lane 55, Chuanhe Road,China(shanghai) Pilot Free Trade Zone, Shanghai, China, 201203

3.2. Product Description

Name of EUT:	YI 1080p Home Camera
Trade Mark:	YI
Model No.:	YYS.2016
Listed Model(s):	-
Power supply:	DC 5V
Adapter Information:	Model No.: GQ05-050100-ZU Input: 100-240Va.c.,50/60Hz 0.3A Max Output: 5.0Vd.c.,1.0A
Hardware version:	y211ga_mb_v1_0
Software version:	9.0.36.00_202011101611

3.3. Radio Specification Description

Support type ^{*2} :	802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)
Modulation:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)/802.11n(HT40)
Operation frequency:	2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20) 2422MHz~2452MHz for 802.11n(HT40)
Channel number:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Channel separation:	5MHz
Antenna type:	Metal Antenna
Antenna gain:	3dBi

Note:

*2: only show the RF function associated with this report.

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China	
Qualifications	Type	Accreditation Number
	CNAS	L1225
	A2LA	3902.01
	FCC	762235
	Canada	5377A

4. TEST CONFIGURATION

4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below blue front.

802.11b/802.11g/802.11n(HT20)		802.11n(HT40)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	03	2422
02	2417	04	2427
. :	. :	. :	. :
06	2437	06	2437
. :	. :	. :	. :
10	2457	08	2447
11	2462	09	2452

4.2. Descriptions of Test mode

Preliminary tests were performed in different data rates, final test modes are considering the modulation and worse data rates as below table.

Modulation	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0

4.3. Test mode

For RF test items
The engineering test program was provided and enabled to make EUT continuous transmit.
For AC power line conducted emissions:
The EUT was set to connect with the WLAN AP under large package sizes transmission.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?					
✓ No					
Item	Equipment	Trade Name	Model No.	FCC ID	Power cord
1					
2					

4.5. Testing environmental condition

Type	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.6. Measurement uncertainty

Test Item	Measurement Uncertainty
AC Conducted Emission (150kHz~30MHz)	3.02 dB
Radiated Emission (30MHz~1000MHz)	4.90 dB
Radiated Emissions (1GHz~25GHz)	4.96 dB
Peak Output Power	0.51 dB
Power Spectral Density	0.51 dB
Conducted Spurious Emission	0.51 dB
6dB Bandwidth	70 Hz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.7. Equipment Used during the Test

● Conducted Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2018/09/28	2023/09/27
●	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2020/10/19	2021/10/18
●	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2020/10/15	2021/10/14
●	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2020/10/15	2021/10/14
●	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM-BNCM-2M	2020/10/15	2021/10/14
●	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

● Radiated emission-6th test site							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2021/09/29
●	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2020/10/19	2021/10/18
●	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2018/04/02	2021/04/01
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2018/04/04	2021/04/03
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2020/11/13	2021/11/12
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2020/05/27	2021/05/26
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX 104	501184/4	2020/05/27	2021/05/26
●	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

● Radiated emission-7th test site							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2021/09/26
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2020/10/20	2021/10/19
●	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
●	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/11
●	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2020/11/13	2021/11/12
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2020/05/23	2021/05/22
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-03	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
●	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
●	Test Software	Audix	N/A	E3	N/A	N/A	N/A

● RF Conducted Method						
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Signal and spectrum Analyzer	R&S	FSV40	100048	2020/10/19	2021/10/18
●	Spectrum Analyzer	Agilent	N9020A	MY50510187	2020/10/19	2021/10/18
●	Power Meter	Anritsu	ML249A	N/A	2020/10/19	2021/10/18
○	Radio communication tester	R&S	CMW500	137688-Lv	2020/10/19	2021/10/18

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C 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. 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.

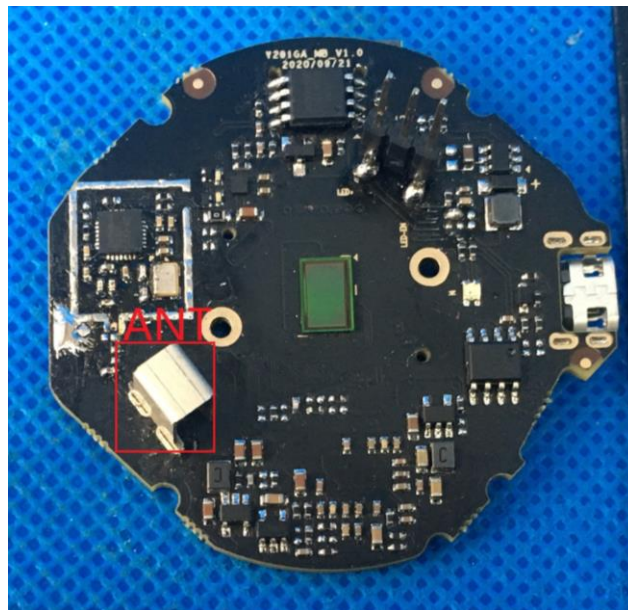
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

TEST RESULT

Passed **Not Applicable**

The antenna type is a Metal Antenna, the directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



5.2. AC Conducted Emission

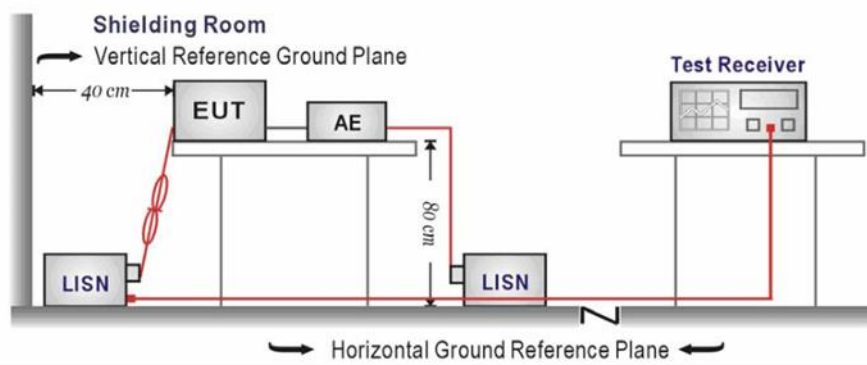
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

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

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.10 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

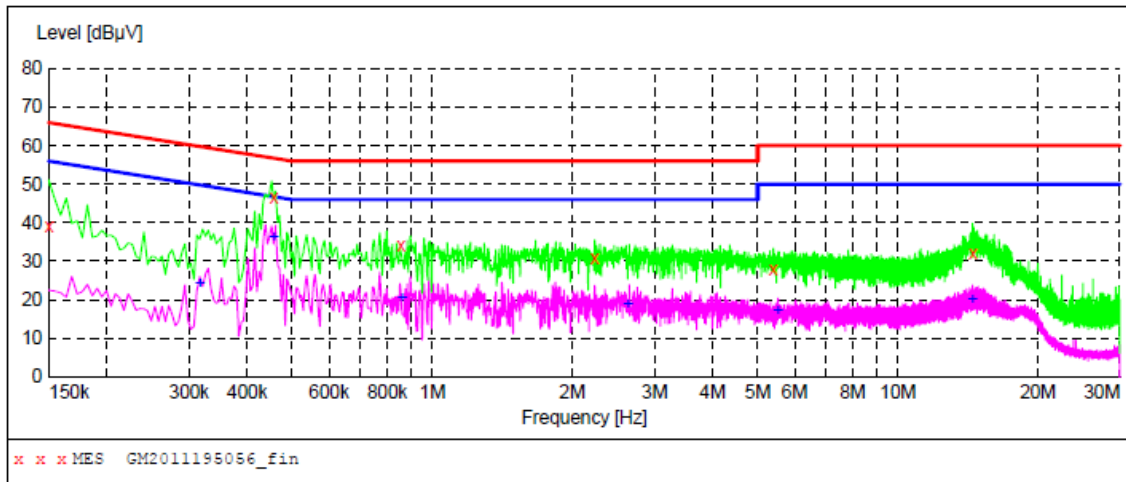
Please refer to the clause 4.2

TEST RESULT

Passed Not Applicable

Test Line:

L



MEASUREMENT RESULT: "GM2011195056_fin"

11/19/2020 3:03PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	39.10	10.0	66	26.9	QP	L1	GND
0.456000	46.60	10.1	57	10.2	QP	L1	GND
0.856500	34.00	10.1	56	22.0	QP	L1	GND
2.229000	30.70	10.1	56	25.3	QP	L1	GND
5.397000	27.90	10.2	60	32.1	QP	L1	GND
14.505000	32.00	10.4	60	28.0	QP	L1	GND

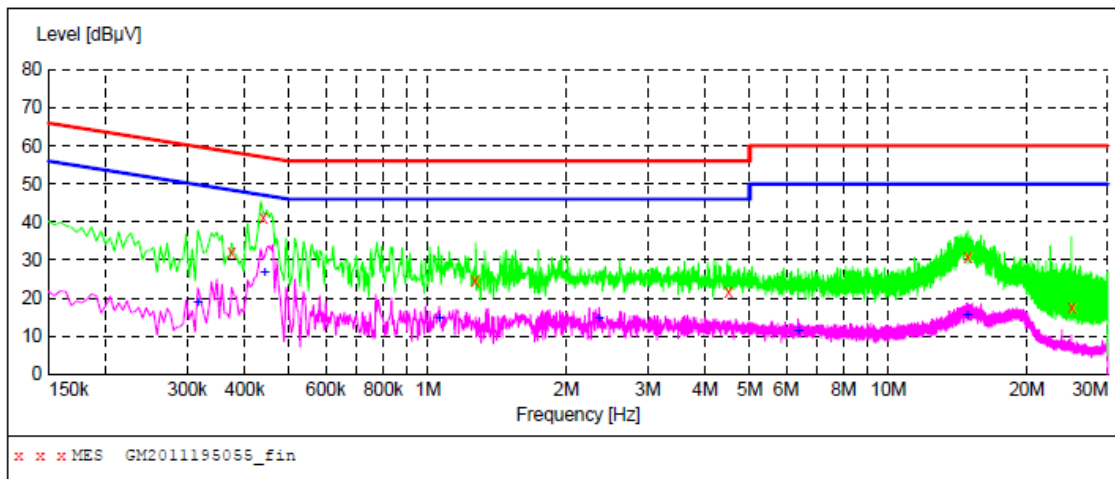
MEASUREMENT RESULT: "GM2011195056_fin2"

11/19/2020 3:03PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.316500	24.00	10.1	50	25.8	AV	L1	GND
0.456000	36.30	10.1	47	10.5	AV	L1	GND
0.861000	20.40	10.1	46	25.6	AV	L1	GND
2.629500	18.80	10.2	46	27.2	AV	L1	GND
5.523000	17.20	10.2	50	32.8	AV	L1	GND
14.442000	20.20	10.4	50	29.8	AV	L1	GND

Test Line:

N



MEASUREMENT RESULT: "GM2011195055_fin"

11/19/2020 3:00PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.375000	32.10	10.1	58	26.3	QP	N	GND
0.438000	41.00	10.1	57	16.1	QP	N	GND
1.266000	24.70	10.1	56	31.3	QP	N	GND
4.497000	21.80	10.2	56	34.2	QP	N	GND
14.874000	30.90	10.4	60	29.1	QP	N	GND
25.044000	17.70	10.6	60	42.3	QP	N	GND

MEASUREMENT RESULT: "GM2011195055_fin2"

11/19/2020 3:00PM

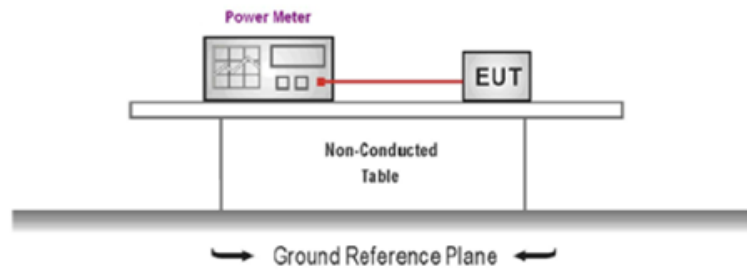
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.316500	18.90	10.1	50	30.9	AV	N	GND
0.442500	26.60	10.1	47	20.4	AV	N	GND
1.059000	14.80	10.1	46	31.2	AV	N	GND
2.355000	14.50	10.2	46	31.5	AV	N	GND
6.378000	11.50	10.2	50	38.5	AV	N	GND
14.842500	15.50	10.4	50	34.5	AV	N	GND

5.3. Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10 and KDB 558074 D01 requirements.
2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
4. Record the measurement data.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST Data

Please refer to appendix A on the appendix report

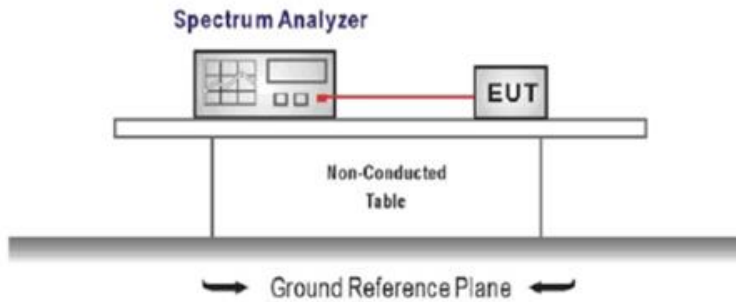
5.4. Power Spectral Density

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input,
2. Configure the spectrum analyzer as shown below:
Center frequency=DTS channel center frequency
Span =1.5 times the DTS bandwidth
RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW
Sweep time = auto couple
Detector = peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
4. Use the peak marker function to determine the maximum amplitude level within the RBW.
5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST Data

Please refer to appendix B on the appendix report

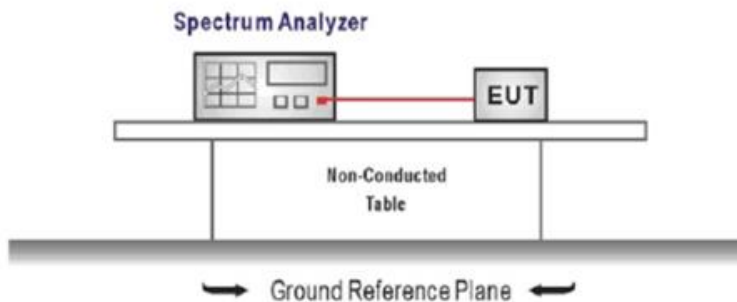
5.5. 6dB bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency =DTS channel center frequency
Span=2 x DTS bandwidth
RBW = 100 kHz, VBW \geq 3 x RBW
Sweep time= auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST Data

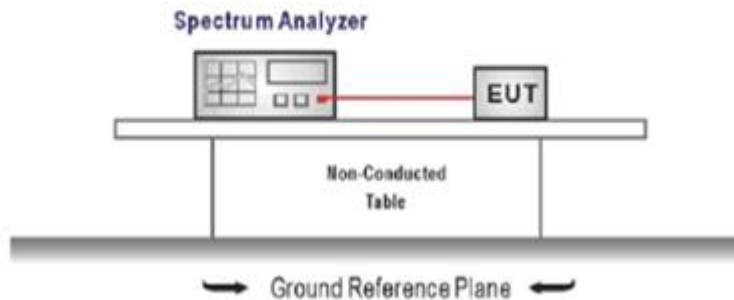
Please refer to appendix C on the appendix report

5.6. 99% Occupied Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency = channel center frequency
Span $\geq 1.5 \times$ OBW
RBW = 1%~5%OBW
VBW $\geq 3 \times$ RBW
Sweep time = auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST Data

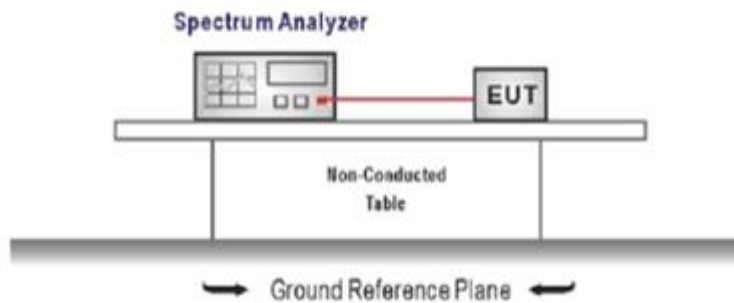
Please refer to appendix D on the appendix report

5.7. Duty Cycle

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span=zero span, Frequency=centered channel, RBW= 1 MHz, VBW \geq RBW
Sweep=as necessary to capture the entire dwell time,
Detector function = peak, Trigger mode
4. Measure and record the duty cycle data

TEST MODE:

Please refer to the clause 4.2

TEST Data

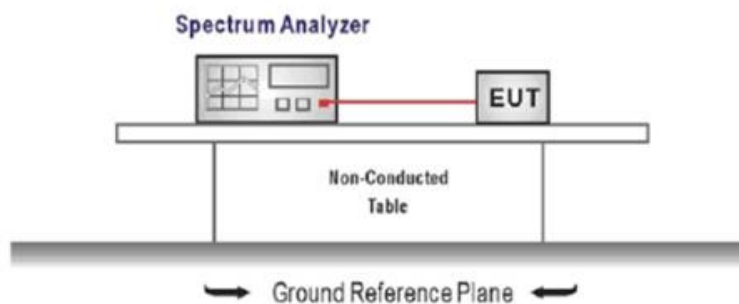
Please refer to appendix E on the appendix report

5.8. Conducted Band edge and Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d): 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 CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Establish a reference level by using the following procedure
Center frequency=DTS channel center frequency
The span = 1.5 times the DTS bandwidth.
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

3. Emission level measurement
Set the center frequency and span to encompass frequency range to be measured
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum amplitude level.
4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
5. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Passed **Not Applicable**

TEST Data

Please refer to appendix F on the appendix report

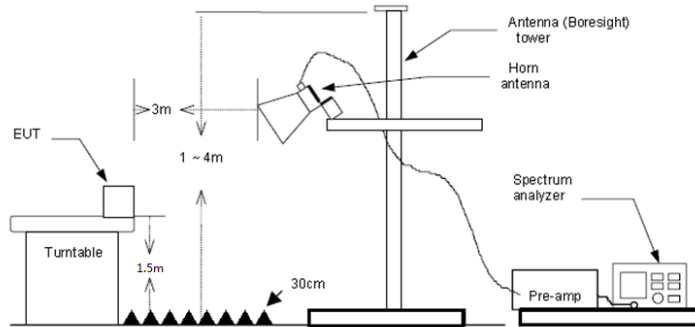
5.9. Radiated Band edge Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10 .
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
5. Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

 - VBW=10Hz, 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, so refer to this clause 5.6 duty cycle.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Passed Not Applicable

Note:

- 1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).

Type	802.11b		Test channel		CH01		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	31.39	27.96	7.30	37.56	20.00	49.09	74.00	-24.91	Peak
2	2390.01	31.09	27.72	7.72	37.45	20.00	49.08	74.00	-24.92	Peak

Type	802.11b		Test channel		CH01		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	31.99	27.96	7.30	37.56	20.00	49.69	74.00	-24.31	Peak
2	2390.01	31.18	27.72	7.72	37.45	20.00	49.17	74.00	-24.83	Peak

Type	802.11b		Test channel		CH11		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	32.66	27.43	7.80	37.26	20.00	50.63	74.00	-23.37	Peak
2	2500.00	32.18	27.40	7.81	37.26	20.00	50.13	74.00	-23.87	Peak

Type	802.11b		Test channel		CH11		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	31.45	27.43	7.80	37.26	20.00	49.42	74.00	-24.58	Peak
2	2500.00	31.35	27.40	7.81	37.26	20.00	49.30	74.00	-24.70	Peak

Type	802.11g		Test channel		CH01		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	32.26	27.96	7.30	37.56	20.00	49.96	74.00	-24.04	Peak
2	2390.01	31.66	27.72	7.72	37.45	20.00	49.65	74.00	-24.35	Peak

Type	802.11g		Test channel		CH01		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	32.26	27.96	7.30	37.56	20.00	49.96	74.00	-24.04	Peak
2	2390.01	31.80	27.72	7.72	37.45	20.00	49.79	74.00	-24.21	Peak

Type	802.11g		Test channel		CH11		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	31.27	27.43	7.80	37.26	20.00	49.24	74.00	-24.76	Peak
2	2500.00	31.49	27.40	7.81	37.26	20.00	49.44	74.00	-24.56	Peak

Type	802.11g		Test channel		CH11		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	32.07	27.43	7.80	37.26	20.00	50.04	74.00	-23.96	Peak
2	2500.00	31.71	27.40	7.81	37.26	20.00	49.66	74.00	-24.34	Peak

Type		802.11n(HT20)		Test channel		CH01		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2310.00	32.97	27.96	7.30	37.56	20.00	50.67	74.00	-23.33	Peak	
2	2390.01	31.99	27.72	7.72	37.45	20.00	49.98	74.00	-24.02	Peak	

Type		802.11n(HT20)		Test channel		CH01		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2310.00	32.90	27.96	7.30	37.56	20.00	50.60	74.00	-23.40	Peak	
2	2390.01	32.16	27.72	7.72	37.45	20.00	50.15	74.00	-23.85	Peak	

Type		802.11n(HT20)		Test channel		CH11		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2483.49	32.80	27.43	7.80	37.26	20.00	50.77	74.00	-23.23	Peak	
2	2500.00	31.99	27.40	7.81	37.26	20.00	49.94	74.00	-24.06	Peak	

Type		802.11n(HT20)		Test channel		CH11		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2483.49	32.13	27.43	7.80	37.26	20.00	50.10	74.00	-23.90	Peak	
2	2500.00	31.76	27.40	7.81	37.26	20.00	49.71	74.00	-24.29	Peak	

Type	802.11n(HT40)		Test channel	CH03	Polarity		Horizontal			
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	32.80	27.96	7.30	37.56	20.00	50.50	74.00	-23.50	Peak
2	2389.99	32.28	27.72	7.72	37.45	20.00	50.27	74.00	-23.73	Peak

Type	802.11n(HT40)		Test channel	CH03	Polarity		Vertical			
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	33.04	27.96	7.30	37.56	20.00	50.74	74.00	-23.26	Peak
2	2389.99	33.12	27.72	7.72	37.45	20.00	51.11	74.00	-22.89	Peak

Type	802.11n(HT40)		Test channel	CH09	Polarity		Horizontal			
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.50	32.49	27.43	7.80	37.26	20.00	50.46	74.00	-23.54	Peak
2	2500.00	31.70	27.40	7.81	37.26	20.00	49.65	74.00	-24.35	Peak

Type	802.11n(HT40)		Test channel	CH09	Polarity		Vertical			
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.50	32.69	27.43	7.80	37.26	20.00	50.66	74.00	-23.34	Peak
2	2500.00	32.06	27.40	7.81	37.26	20.00	50.01	74.00	-23.99	Peak

5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

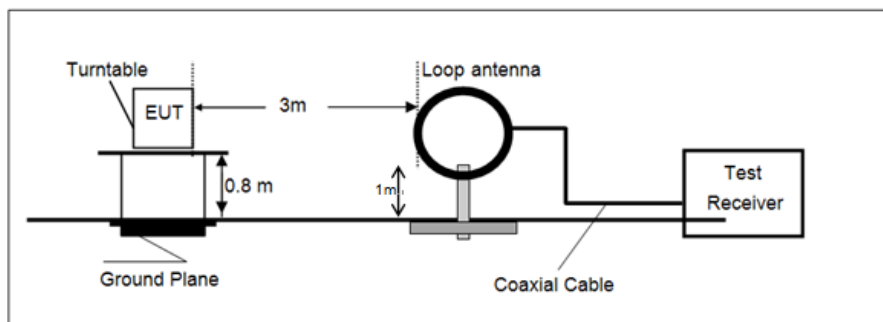
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

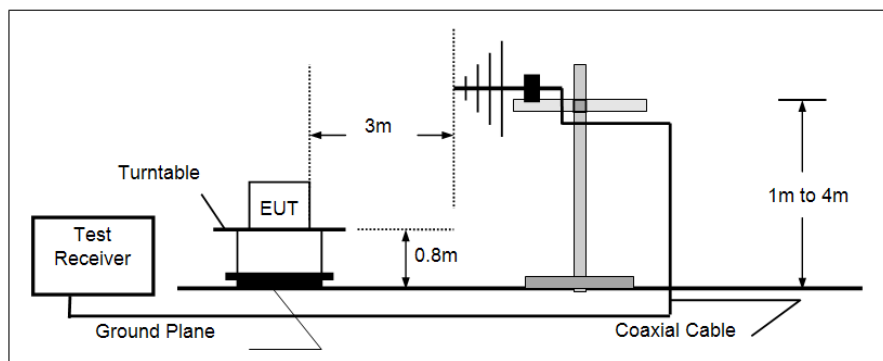
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

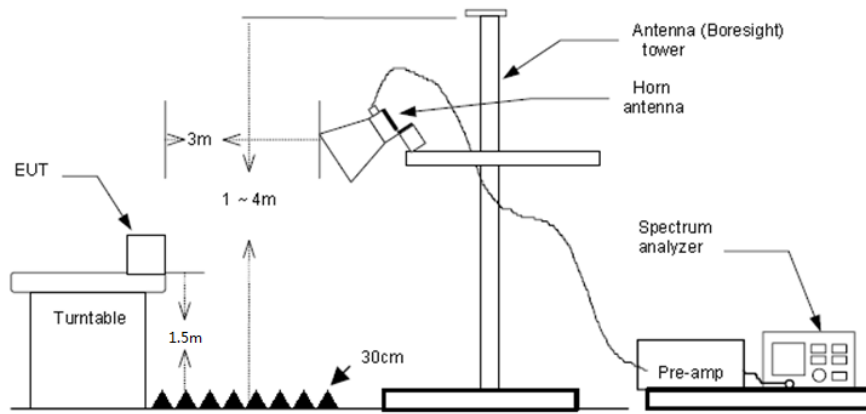
- 9 kHz ~ 30 MHz



- 30 MHz ~ 1 GHz



- Above 1 GHz



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10 .
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, 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 to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1 GHz:
 - RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
 - 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.
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement
 - For average measurement:
 - VBW=10Hz, 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, so refer to this clause 5.6 duty cycle.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Passed **Not Applicable**

Note:

- 1) Level= Reading + Factor/Transd; Factor/Transd =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level– Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

TEST DATA FOR 9 kHz ~ 30 MHz

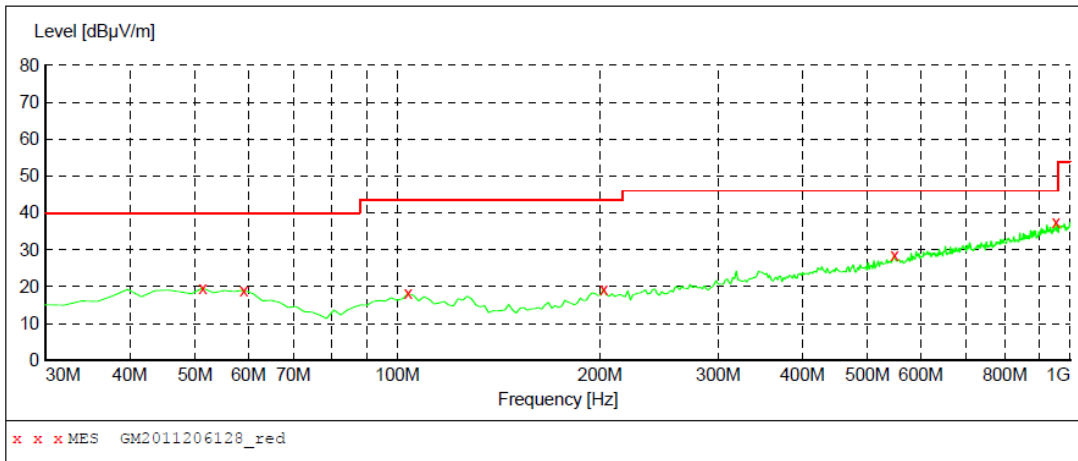
The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

TEST DATA FOR 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found CH06 of 802.11B which it was worst case, so only show the worst case's data on this report.

Polarization:

Horizontal



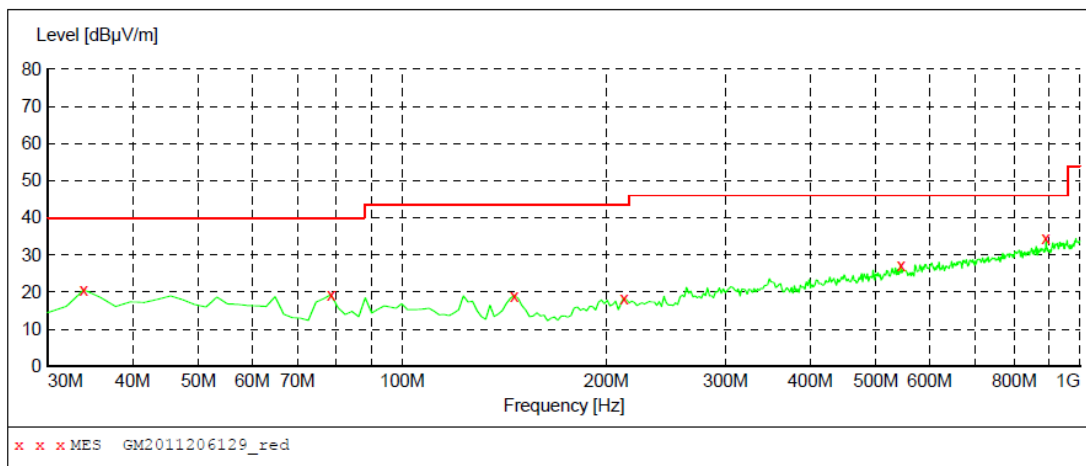
MEASUREMENT RESULT: "GM2011206128_red"

11/20/2020 11:47PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
51.340000	19.60	-8.6	40.0	20.4	---	300.0	241.00	HORIZONTAL
59.100000	19.00	-8.9	40.0	21.0	---	300.0	193.00	HORIZONTAL
103.720000	18.10	-9.9	43.5	25.4	---	100.0	26.00	HORIZONTAL
202.660000	19.30	-9.5	43.5	24.2	---	300.0	252.00	HORIZONTAL
547.980000	28.40	0.4	46.0	17.6	---	100.0	194.00	HORIZONTAL
948.000000	37.30	10.1	46.0	8.7	---	100.0	351.00	HORIZONTAL

Polarization:

Vertical



MEASUREMENT RESULT: "GM2011206129_red"

11/20/2020 11:51PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
33.880000	20.60	-11.3	40.0	19.4	---	100.0	197.00	VERTICAL
78.500000	19.30	-14.9	40.0	20.7	---	100.0	294.00	VERTICAL
146.400000	19.10	-13.5	43.5	24.4	---	100.0	122.00	VERTICAL
212.360000	18.40	-9.7	43.5	25.1	---	100.0	134.00	VERTICAL
544.100000	27.20	0.2	46.0	18.8	---	100.0	134.00	VERTICAL
890.420000	33.40	9.6	46.0	12.6	---	100.0	26.00	VERTICAL

TEST DATA FOR 1 GHz ~ 25 GHz

Type	802.11b		Test channel	CH01				Polarity	Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1343.51	34.98	26.26	5.47	36.41	0.00	30.30	74.00	-43.70	Peak
2	3570.71	34.22	29.34	9.93	36.85	0.00	36.64	74.00	-37.36	Peak
3	4821.76	35.90	31.40	11.52	35.24	0.00	43.58	74.00	-30.42	Peak
4	8002.06	31.75	37.10	14.29	33.31	0.00	49.83	74.00	-24.17	Peak
Type	802.11b		Test channel	CH01				Polarity	Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1303.09	35.49	26.02	5.42	36.30	0.00	30.63	74.00	-43.37	Peak
2	3454.49	33.27	28.92	9.35	36.57	0.00	34.97	74.00	-39.03	Peak
3	4821.76	37.45	31.40	11.52	35.24	0.00	45.13	74.00	-28.87	Peak
4	7961.43	31.85	36.95	14.41	33.32	0.00	49.89	74.00	-24.11	Peak
Type	802.11b		Test channel	CH06				Polarity	Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1273.57	35.19	25.95	5.34	36.40	0.00	30.08	74.00	-43.92	Peak
2	3579.82	33.49	29.36	9.98	36.88	0.00	35.95	74.00	-38.05	Peak
3	5762.24	32.08	31.92	12.35	34.86	0.00	41.49	74.00	-32.51	Peak
4	8022.46	31.84	37.14	14.29	33.31	0.00	49.96	74.00	-24.04	Peak
Type	802.11b		Test channel	CH06				Polarity	Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1185.96	36.56	25.54	5.07	36.66	0.00	30.51	74.00	-43.49	Peak
2	3653.46	33.83	29.40	9.93	37.02	0.00	36.14	74.00	-37.86	Peak
3	5490.18	32.22	31.86	11.94	35.33	0.00	40.69	74.00	-33.31	Peak
4	8042.90	31.77	37.19	14.28	33.31	0.00	49.93	74.00	-24.07	Peak
Type	802.11b		Test channel	CH11				Polarity	Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1289.89	35.16	25.98	5.39	36.33	0.00	30.20	74.00	-43.80	Peak
2	3690.85	34.50	29.40	9.82	37.04	0.00	36.68	74.00	-37.32	Peak
3	4920.96	35.37	31.44	11.51	35.21	0.00	43.11	74.00	-30.89	Peak
4	7921.00	31.45	36.84	14.53	33.33	0.00	49.49	74.00	-24.51	Peak
Type	802.11b		Test channel	CH11				Polarity	Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1138.63	36.28	25.40	5.02	36.81	0.00	29.89	74.00	-44.11	Peak
2	3588.94	32.57	29.38	10.03	36.90	0.00	35.08	74.00	-38.92	Peak
3	4933.50	34.76	31.47	11.52	35.20	0.00	42.55	74.00	-31.45	Peak
4	8042.90	31.31	37.19	14.28	33.31	0.00	49.47	74.00	-24.53	Peak

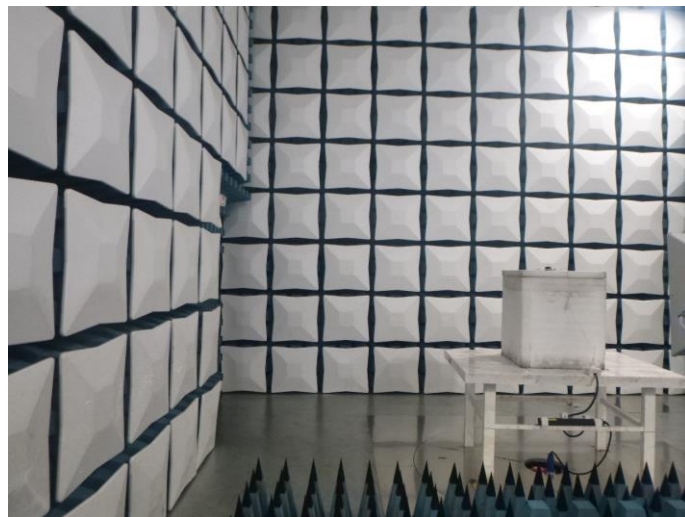
Type	802.11g		Test channel		CH01		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1367.66	34.97	26.23	5.50	36.46	0.00	30.24	74.00	-43.76	Peak
2	3184.25	34.44	28.93	8.71	37.05	0.00	35.03	74.00	-38.97	Peak
3	5365.83	31.93	31.56	12.08	35.31	0.00	40.26	74.00	-33.74	Peak
4	7961.43	31.16	36.95	14.41	33.32	0.00	49.20	74.00	-24.80	Peak
Type	802.11g		Test channel		CH01		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1286.61	35.09	25.97	5.38	36.35	0.00	30.09	74.00	-43.91	Peak
2	3943.39	33.53	29.89	10.06	36.53	0.00	36.95	74.00	-37.05	Peak
3	4883.52	32.33	31.40	11.50	35.18	0.00	40.05	74.00	-33.95	Peak
4	8022.46	31.13	37.14	14.29	33.31	0.00	49.25	74.00	-24.75	Peak
Type	802.11g		Test channel		CH06		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1241.56	35.86	25.85	5.23	36.53	0.00	30.41	74.00	-43.59	Peak
2	3192.37	35.08	28.92	8.72	37.01	0.00	35.71	74.00	-38.29	Peak
3	5703.86	31.62	31.90	12.47	34.90	0.00	41.09	74.00	-32.91	Peak
4	7880.77	31.52	36.72	14.54	33.31	0.00	49.47	74.00	-24.53	Peak
Type	802.11g		Test channel		CH06		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1329.89	34.27	26.18	5.46	36.37	0.00	29.54	74.00	-44.46	Peak
2	3507.65	33.26	29.13	9.55	36.64	0.00	35.30	74.00	-38.70	Peak
3	4871.10	32.88	31.40	11.51	35.16	0.00	40.63	74.00	-33.37	Peak
4	8063.40	31.54	37.20	14.28	33.32	0.00	49.70	74.00	-24.30	Peak
Type	802.11g		Test channel		CH11		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1299.77	35.17	26.00	5.42	36.29	0.00	30.30	74.00	-43.70	Peak
2	3625.67	34.02	29.40	10.02	36.99	0.00	36.45	74.00	-37.55	Peak
3	5631.73	31.19	31.90	12.46	35.02	0.00	40.53	74.00	-33.47	Peak
4	8022.46	31.46	37.14	14.29	33.31	0.00	49.58	74.00	-24.42	Peak
Type	802.11g		Test channel		CH11		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1353.80	35.61	26.28	5.49	36.43	0.00	30.95	74.00	-43.05	Peak
2	3570.71	34.21	29.34	9.93	36.85	0.00	36.63	74.00	-37.37	Peak
3	4920.96	33.17	31.44	11.51	35.21	0.00	40.91	74.00	-33.09	Peak
4	8002.06	32.02	37.10	14.29	33.31	0.00	50.10	74.00	-23.90	Peak

Type	802.11n(HT20)		Test channel		CH01		Polarity		Horizontal	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	1188.98	36.72	25.56	5.08	36.66	0.00	30.70	74.00	-43.30	Peak
2	3507.65	34.88	29.13	9.55	36.64	0.00	36.92	74.00	-37.08	Peak
3	4399.54	33.17	30.60	10.64	36.14	0.00	38.27	74.00	-35.73	Peak
4	8002.06	32.03	37.10	14.29	33.31	0.00	50.11	74.00	-23.89	Peak
Type	802.11n(HT20)		Test channel		CH01		Polarity		Vertical	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	1124.23	37.06	25.40	5.00	36.84	0.00	30.62	74.00	-43.38	Peak
2	3516.59	34.23	29.17	9.60	36.68	0.00	36.32	74.00	-37.68	Peak
3	4834.05	31.92	31.40	11.51	35.20	0.00	39.63	74.00	-34.37	Peak
4	8022.46	31.76	37.14	14.29	33.31	0.00	49.88	74.00	-24.12	Peak
Type	802.11n(HT20)		Test channel		CH06		Polarity		Horizontal	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	1179.94	35.52	25.52	5.07	36.67	0.00	29.44	74.00	-44.56	Peak
2	3552.58	33.12	29.31	9.82	36.80	0.00	35.45	74.00	-38.55	Peak
3	6032.40	31.11	32.50	12.70	35.09	0.00	41.22	74.00	-32.78	Peak
4	7961.43	31.15	36.95	14.41	33.32	0.00	49.19	74.00	-24.81	Peak
Type	802.11n(HT20)		Test channel		CH06		Polarity		Vertical	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	1299.77	35.83	26.00	5.42	36.29	0.00	30.96	74.00	-43.04	Peak
2	3854.08	33.41	29.80	9.91	36.85	0.00	36.27	74.00	-37.73	Peak
3	6331.33	30.83	33.06	13.43	34.59	0.00	42.73	74.00	-31.27	Peak
4	8022.46	31.39	37.14	14.29	33.31	0.00	49.51	74.00	-24.49	Peak
Type	802.11n(HT20)		Test channel		CH11		Polarity		Horizontal	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	1270.33	36.16	25.94	5.32	36.42	0.00	31.00	74.00	-43.00	Peak
2	3625.67	32.80	29.40	10.02	36.99	0.00	35.23	74.00	-38.77	Peak
3	5125.52	32.17	32.10	11.45	35.46	0.00	40.26	74.00	-33.74	Peak
4	8104.56	31.21	37.18	14.29	33.33	0.00	49.35	74.00	-24.65	Peak
Type	802.11n(HT20)		Test channel		CH11		Polarity		Vertical	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
1	1296.47	35.12	25.99	5.41	36.30	0.00	30.22	74.00	-43.78	Peak
2	3192.37	34.01	28.92	8.72	37.01	0.00	34.64	74.00	-39.36	Peak
3	4920.96	33.34	31.44	11.51	35.21	0.00	41.08	74.00	-32.92	Peak
4	8637.08	32.31	37.47	15.00	35.13	0.00	49.65	74.00	-24.35	Peak

Type	802.11n(HT40)		Test channel		CH03		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1144.44	36.61	25.40	5.02	36.79	0.00	30.24	74.00	-43.76	Peak
2	3728.63	33.85	29.46	9.80	37.12	0.00	35.99	74.00	-38.01	Peak
3	5022.19	31.92	32.03	11.54	35.30	0.00	40.19	74.00	-33.81	Peak
4	8083.96	31.92	37.20	14.27	33.32	0.00	50.07	74.00	-23.93	Peak
Type	802.11n(HT40)		Test channel		CH03		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1179.94	36.43	25.52	5.07	36.67	0.00	30.35	74.00	-43.65	Peak
2	3805.33	34.45	29.62	9.85	37.03	0.00	36.89	74.00	-37.11	Peak
3	5125.52	31.56	32.10	11.45	35.46	0.00	39.65	74.00	-34.35	Peak
4	8063.40	31.46	37.20	14.28	33.32	0.00	49.62	74.00	-24.38	Peak
Type	802.11n(HT40)		Test channel		CH06		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1276.82	35.95	25.95	5.35	36.39	0.00	30.86	74.00	-43.14	Peak
2	3579.82	33.43	29.36	9.98	36.88	0.00	35.89	74.00	-38.11	Peak
3	5138.58	32.08	32.05	11.46	35.45	0.00	40.14	74.00	-33.86	Peak
4	8083.96	31.91	37.20	14.27	33.32	0.00	50.06	74.00	-23.94	Peak
Type	802.11n(HT40)		Test channel		CH06		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1147.35	35.58	25.40	5.03	36.78	0.00	29.23	74.00	-44.77	Peak
2	3616.45	33.09	29.40	10.05	36.98	0.00	35.56	74.00	-38.44	Peak
3	5617.41	31.91	31.90	12.46	35.04	0.00	41.23	74.00	-32.77	Peak
4	8063.40	31.00	37.20	14.28	33.32	0.00	49.16	74.00	-24.84	Peak
Type	802.11n(HT40)		Test channel		CH09		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1286.61	35.05	25.97	5.38	36.35	0.00	30.05	74.00	-43.95	Peak
2	3184.25	33.92	28.93	8.71	37.05	0.00	34.51	74.00	-39.49	Peak
3	5073.59	31.80	32.20	11.47	35.43	0.00	40.04	74.00	-33.96	Peak
4	8022.46	31.56	37.14	14.29	33.31	0.00	49.68	74.00	-24.32	Peak
Type	802.11n(HT40)		Test channel		CH09		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1144.44	36.19	25.40	5.02	36.79	0.00	29.82	74.00	-44.18	Peak
2	3757.21	33.82	29.51	9.82	37.13	0.00	36.02	74.00	-37.98	Peak
3	5762.24	31.01	31.92	12.35	34.86	0.00	40.42	74.00	-33.58	Peak
4	8022.46	31.66	37.14	14.29	33.31	0.00	49.78	74.00	-24.22	Peak

6. TEST SETUP PHOTOS

Radiated Emission



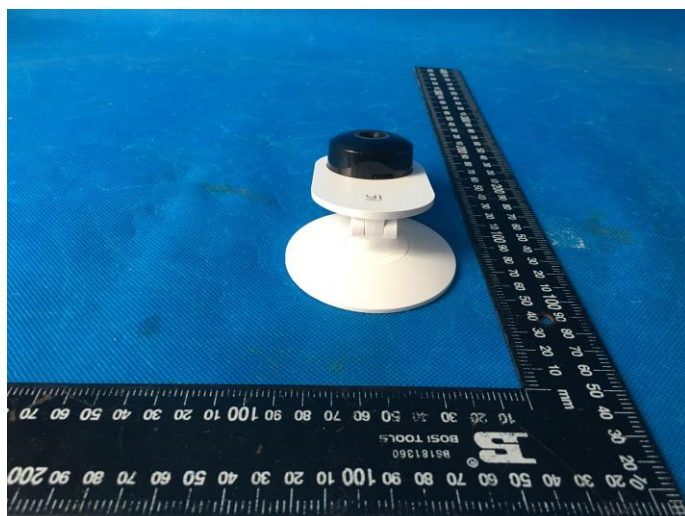
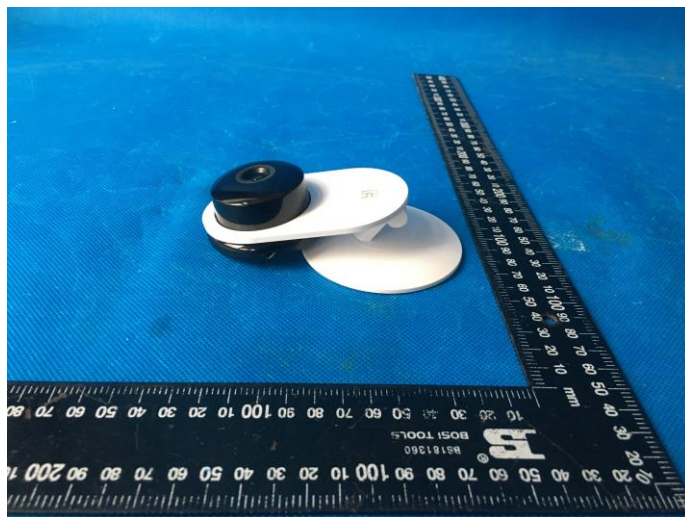
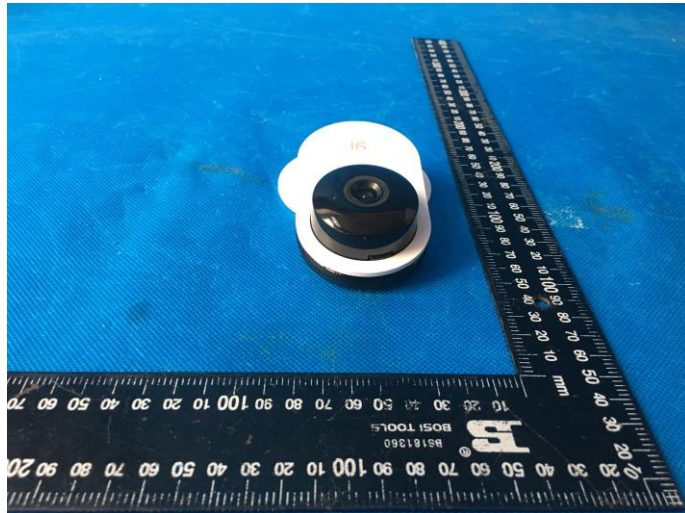
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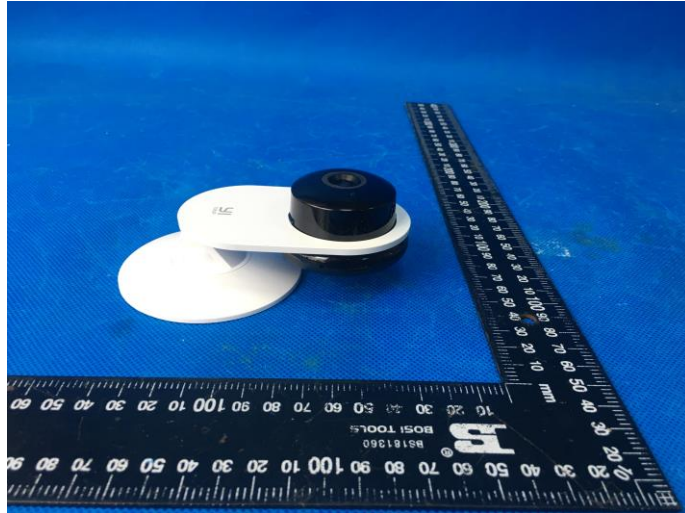


7. EXTERANAL AND INTERNAL PHOTOS

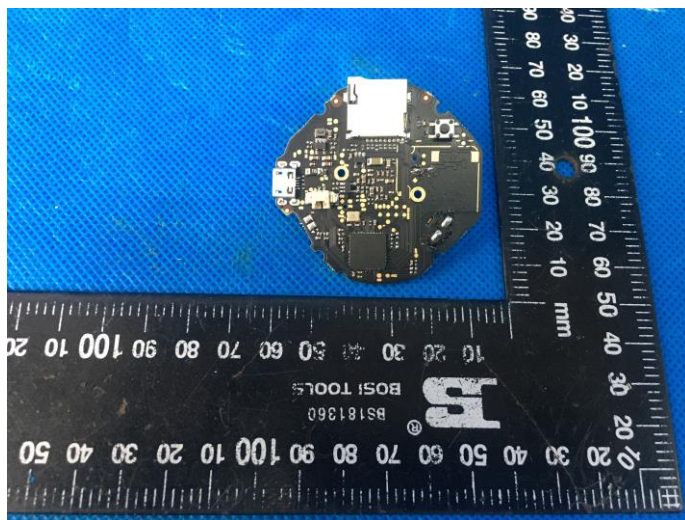
External Photos

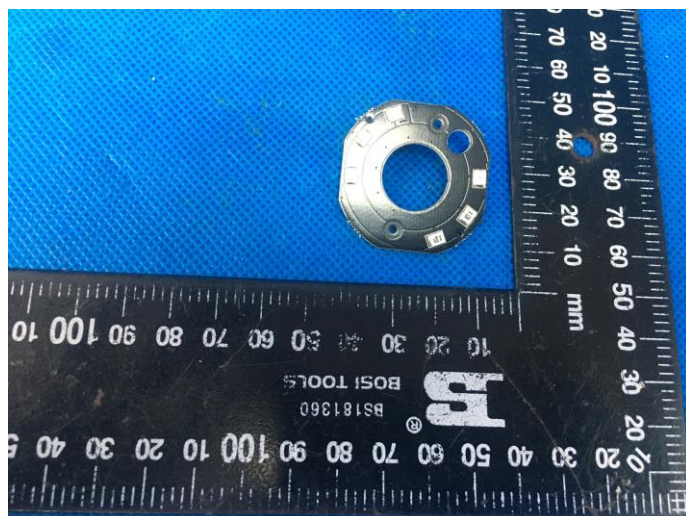
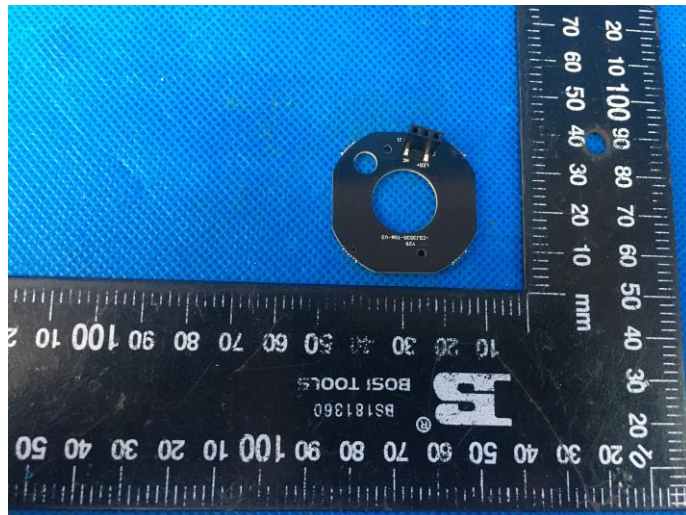
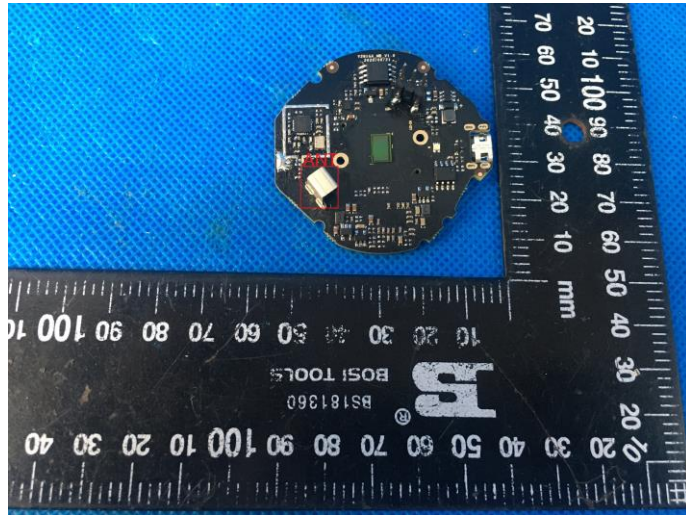






Internal Photos





8. APPENDIX REPORT

APPENDIX REPORT

Project No.	SHT2011024201EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT20110242001	Model No.	YYS.2016
Start test date	2020/11/17	Finish date	2020/11/17
Temperature	25°C	Humidity	50%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zheo

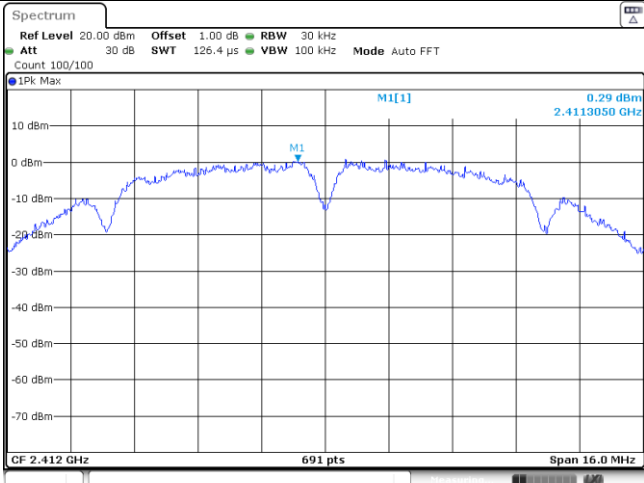
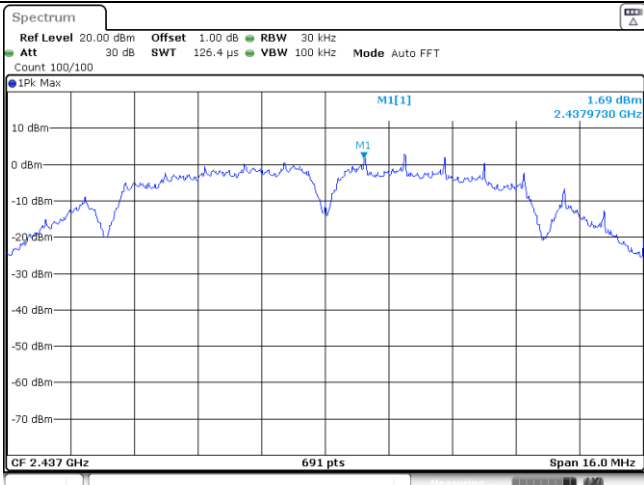
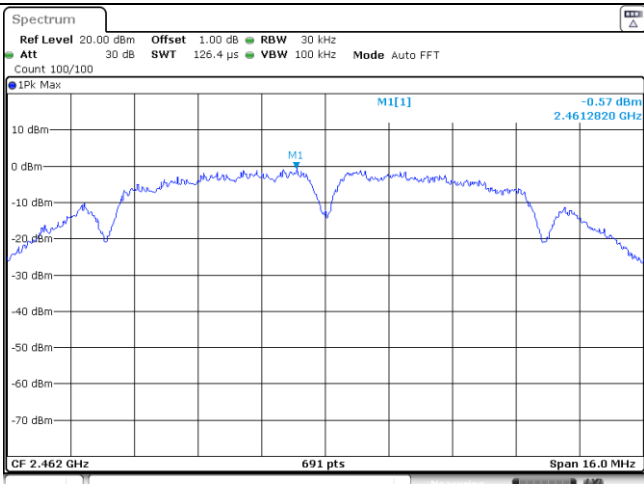
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Conducted Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	17.16	14.84	≤ 30.00	Pass
	06	16.76	14.50		
	11	16.16	13.89		
802.11g	01	16.55	13.49	≤ 30.00	Pass
	06	16.46	13.36		
	11	15.71	12.54		
802.11n (HT20)	01	17.22	13.32	≤ 30.00	Pass
	06	16.61	13.17		
	11	16.02	12.33		
802.11n(HT40)	03	16.58	13.16	≤ 30.00	Pass
	06	16.48	13.05		
	09	16.06	12.84		

Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	0.29	≤8.00	Pass
	06	1.69		
	11	-0.57		
802.11g	01	-7.14	≤8.00	Pass
	06	-7.04		
	11	-7.91		
802.11n(HT20)	01	-8.14	≤8.00	Pass
	06	-8.78		
	11	-10.02		
802.11n(HT40)	03	-11.62	≤8.00	Pass
	06	-11.71		
	09	-12.14		

Type:		802.11 b
CH01	 <p>Spectrum plot for CH01. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in GHz, ranging from approximately 2.400 to 2.432. A prominent signal peak is observed at 2.4113050 GHz, reaching a power level of 0.29 dBm. The plot includes various measurement parameters: Ref Level 20.00 dBm, Att 30 dB, Offset 1.00 dB, RBW 30 kHz, SWT 126.4 μs, VBW 100 kHz, Mode Auto FFT, Count 100/100, CF 2.412 GHz, Span 16.0 MHz, and 691 pts. The date and time are 17 NOV 2020 15:15:02.</p>	
CH06	 <p>Spectrum plot for CH06. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in GHz, ranging from approximately 2.426 to 2.448. A prominent signal peak is observed at 2.4379730 GHz, reaching a power level of 1.69 dBm. The plot includes various measurement parameters: Ref Level 20.00 dBm, Att 30 dB, Offset 1.00 dB, RBW 30 kHz, SWT 126.4 μs, VBW 100 kHz, Mode Auto FFT, Count 100/100, CF 2.437 GHz, Span 16.0 MHz, and 691 pts. The date and time are 17 NOV 2020 15:20:40.</p>	
CH11	 <p>Spectrum plot for CH11. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in GHz, ranging from approximately 2.450 to 2.472. A prominent signal peak is observed at 2.4612820 GHz, reaching a power level of -0.57 dBm. The plot includes various measurement parameters: Ref Level 20.00 dBm, Att 30 dB, Offset 1.00 dB, RBW 30 kHz, SWT 126.4 μs, VBW 100 kHz, Mode Auto FFT, Count 100/100, CF 2.462 GHz, Span 16.0 MHz, and 691 pts. The date and time are 17 NOV 2020 15:23:23.</p>	

Type:		802.11 g
CH01	<p>CF 2.412 GHz 691 pts Span 25.0 MHz</p> <p>Date: 17 NOV 2020 15:28:37</p>	
CH06	<p>CF 2.437 GHz 691 pts Span 25.0 MHz</p> <p>Date: 17 NOV 2020 15:29:10</p>	
CH11	<p>CF 2.462 GHz 691 pts Span 25.0 MHz</p> <p>Date: 17 NOV 2020 15:31:19</p>	

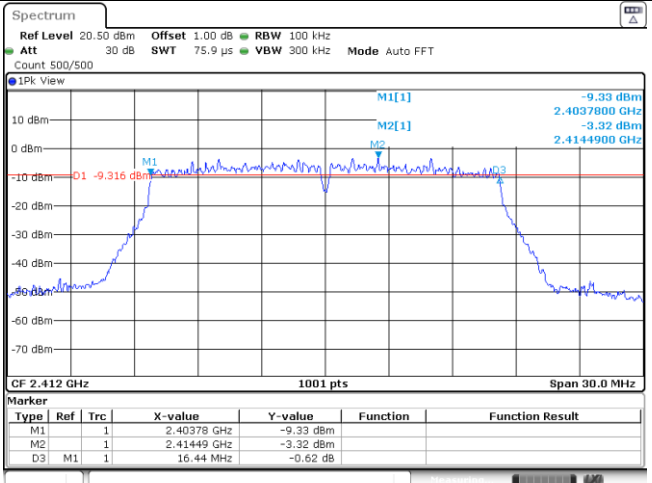
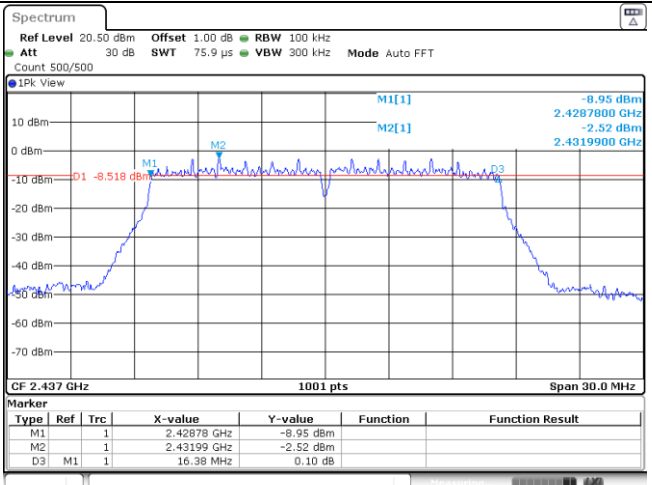
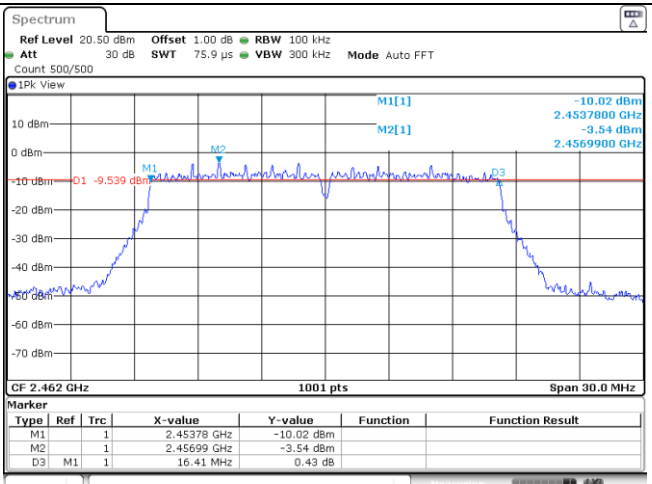
Type:		802.11n(HT20)
CH01	<p>1PK Max</p> <p>M1[1] -9.14 dBm 2.4126870 GHz</p> <p>CF 2.412 GHz 691 pts Span 25.0 MHz</p> <p>Date: 17 NOV 2020 15:40:11</p>	
CH06	<p>1PK Max</p> <p>M1[1] -9.70 dBm 2.4372890 GHz</p> <p>CF 2.437 GHz 691 pts Span 25.0 MHz</p> <p>Date: 17 NOV 2020 15:43:05</p>	
CH11	<p>1PK Max</p> <p>M1[1] -10.02 dBm 2.4669930 GHz</p> <p>CF 2.462 GHz 691 pts Span 25.0 MHz</p> <p>Date: 17 NOV 2020 15:46:46</p>	

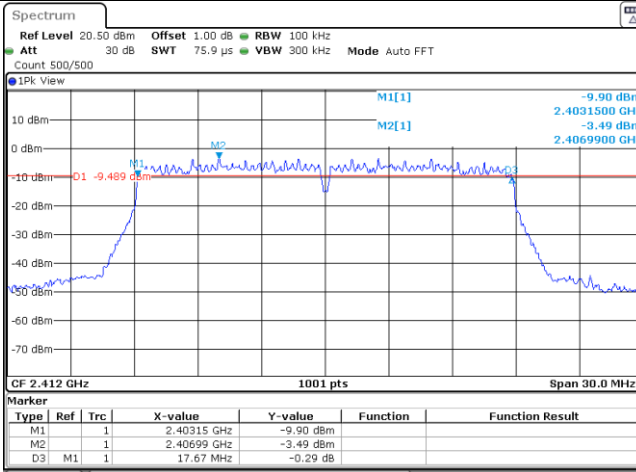
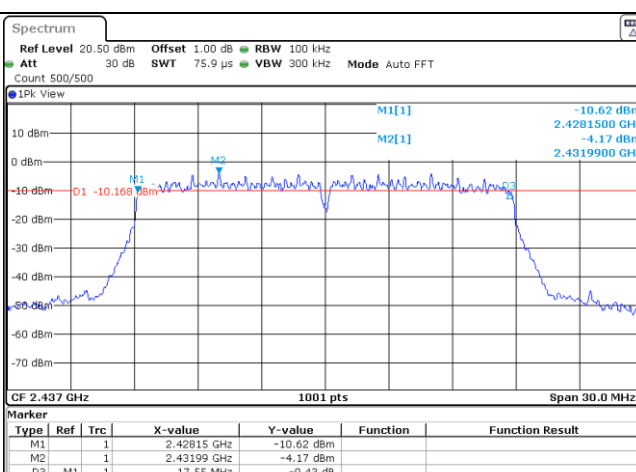
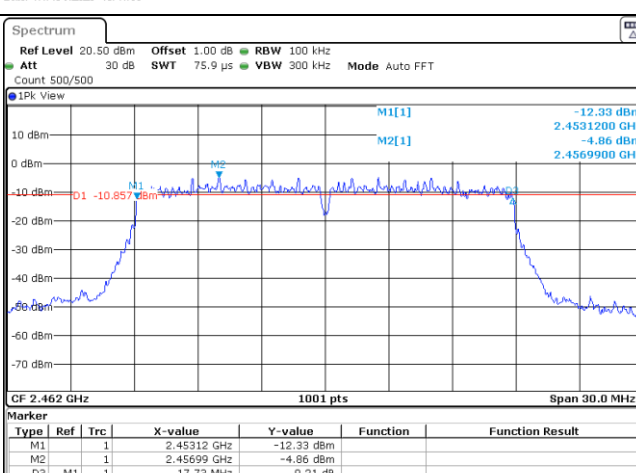
Type:		802.11n(HT40)
CH03	<p>1PK Max -11.62 dBm 2.4169860 GHz</p> <p>CF 2.422 GHz 691 pts Span 55.0 MHz</p> <p>Date: 17 NOV 2020 15:51:07</p>	
CH06	<p>1PK Max -11.71 dBm 2.4319860 GHz</p> <p>CF 2.437 GHz 691 pts Span 55.0 MHz</p> <p>Date: 17 NOV 2020 15:54:09</p>	
CH09	<p>1PK Max -12.14 dBm 2.4469860 GHz</p> <p>CF 2.452 GHz 691 pts Span 55.0 MHz</p> <p>Date: 17 NOV 2020 15:59:18</p>	

Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.81	≥0.5	Pass
	06	9.78		
	11	10.11		
802.11g	01	16.44	≥0.5	Pass
	06	16.38		
	11	16.41		
802.11n(HT20)	01	17.67	≥0.5	Pass
	06	17.55		
	11	17.73		
802.11n(HT40)	03	35.58	≥0.5	Pass
	06	35.52		
	09	36.18		

Type:	802.11 b																												
CH01	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500 IPK View</p> <p>10 dBm 0 dBm -1.154 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.40693 GHz</td> <td>-3.27 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.41098 GHz</td> <td>4.85 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>9.81 MHz</td> <td>1.79 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 17 NOV 2020 15:13:05</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40693 GHz	-3.27 dBm			M2		1	2.41098 GHz	4.85 dBm			D3	M1	1	9.81 MHz	1.79 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.40693 GHz	-3.27 dBm																									
M2		1	2.41098 GHz	4.85 dBm																									
D3	M1	1	9.81 MHz	1.79 dB																									
CH06	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500 IPK View</p> <p>10 dBm 0 dBm -2.249 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>CF 2.437 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.43208 GHz</td> <td>-2.87 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.43754 GHz</td> <td>3.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>9.78 MHz</td> <td>0.20 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 17 NOV 2020 15:18:51</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.43208 GHz	-2.87 dBm			M2		1	2.43754 GHz	3.75 dBm			D3	M1	1	9.78 MHz	0.20 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.43208 GHz	-2.87 dBm																									
M2		1	2.43754 GHz	3.75 dBm																									
D3	M1	1	9.78 MHz	0.20 dB																									
CH11	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500 IPK View</p> <p>10 dBm 0 dBm -2.740 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>CF 2.462 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.45693 GHz</td> <td>-4.62 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.46299 GHz</td> <td>3.26 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>10.11 MHz</td> <td>1.69 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 17 NOV 2020 15:21:52</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.45693 GHz	-4.62 dBm			M2		1	2.46299 GHz	3.26 dBm			D3	M1	1	10.11 MHz	1.69 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.45693 GHz	-4.62 dBm																									
M2		1	2.46299 GHz	3.26 dBm																									
D3	M1	1	10.11 MHz	1.69 dB																									


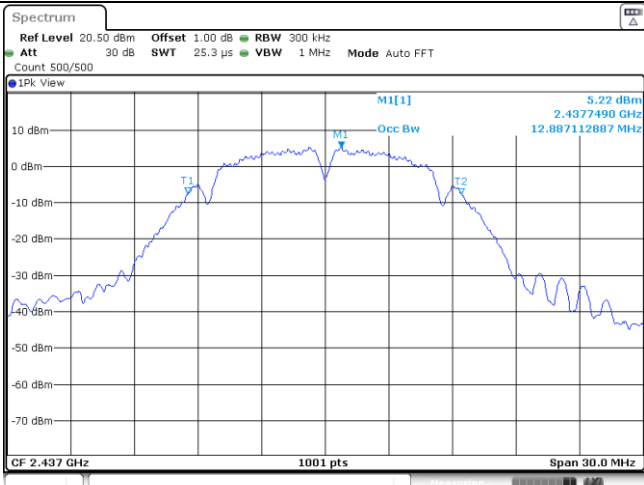
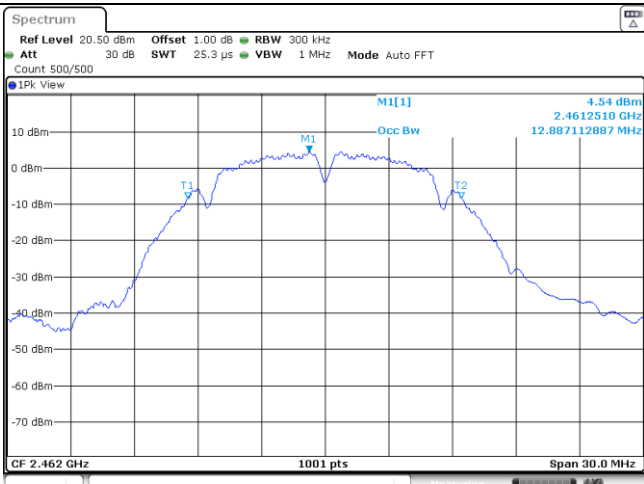
Type:	802.11 g																												
CH01	 <p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500 1PK View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] -9.33 dBm 2.4037800 GHz M2[1] -3.32 dBm 2.4144900 GHz</p> <p>D1 -9.316 dBm</p> <p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.40378 GHz</td> <td>-9.33 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.41449 GHz</td> <td>-3.32 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.44 MHz</td> <td>-0.62 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 17 NOV 2020 15:25:38</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40378 GHz	-9.33 dBm			M2		1	2.41449 GHz	-3.32 dBm			D3	M1	1	16.44 MHz	-0.62 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.40378 GHz	-9.33 dBm																									
M2		1	2.41449 GHz	-3.32 dBm																									
D3	M1	1	16.44 MHz	-0.62 dB																									
CH06	 <p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500 1PK View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] -8.95 dBm 2.4287800 GHz M2[1] -2.52 dBm 2.4319900 GHz</p> <p>D1 -8.518 dBm</p> <p>CF 2.437 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.42878 GHz</td> <td>-8.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.43199 GHz</td> <td>-2.52 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.38 MHz</td> <td>0.10 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 17 NOV 2020 15:28:08</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.42878 GHz	-8.95 dBm			M2		1	2.43199 GHz	-2.52 dBm			D3	M1	1	16.38 MHz	0.10 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.42878 GHz	-8.95 dBm																									
M2		1	2.43199 GHz	-2.52 dBm																									
D3	M1	1	16.38 MHz	0.10 dB																									
CH11	 <p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500 1PK View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] -10.02 dBm 2.4537800 GHz M2[1] -3.54 dBm 2.4569900 GHz</p> <p>D1 -9.539 dBm</p> <p>CF 2.462 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.45378 GHz</td> <td>-10.02 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.45699 GHz</td> <td>-3.54 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.41 MHz</td> <td>0.43 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 17 NOV 2020 15:30:21</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.45378 GHz	-10.02 dBm			M2		1	2.45699 GHz	-3.54 dBm			D3	M1	1	16.41 MHz	0.43 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.45378 GHz	-10.02 dBm																									
M2		1	2.45699 GHz	-3.54 dBm																									
D3	M1	1	16.41 MHz	0.43 dB																									

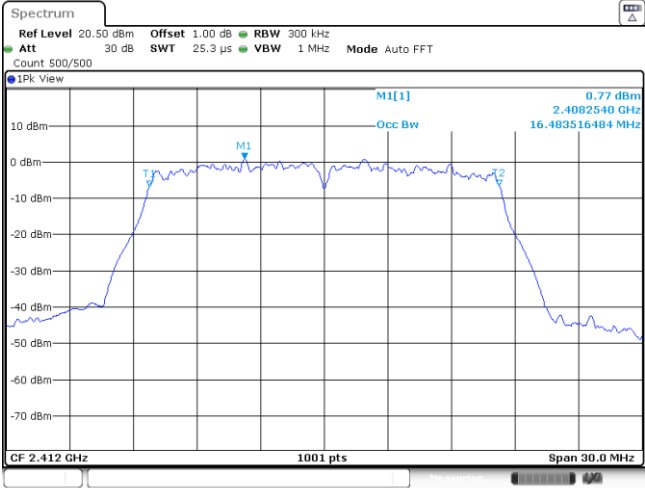
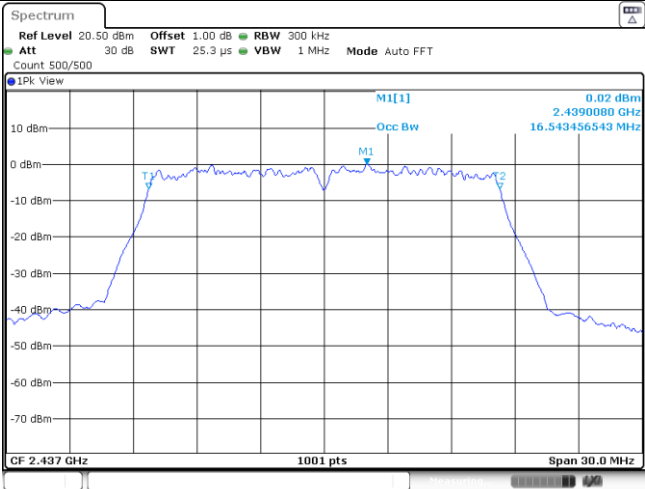
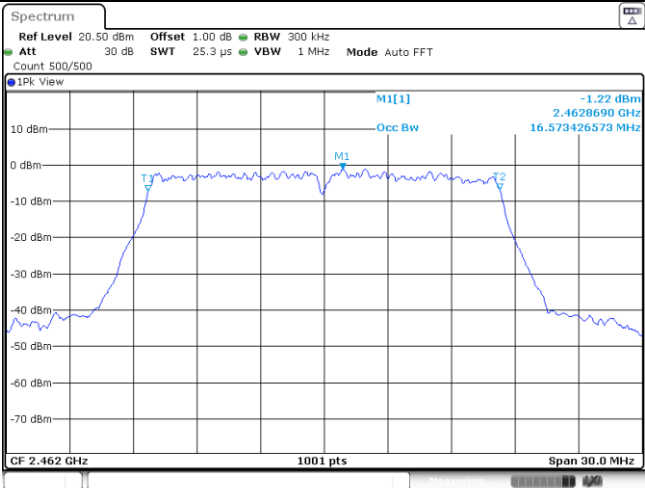
Type:	802.11n(HT20)																												
CH01	 <p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] -9.90 dBm 2.4031500 GHz M2[1] -3.49 dBm 2.4069900 GHz</p> <p>D1 -9.489 dBm</p> <p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.40315 GHz</td> <td>-9.90 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.40699 GHz</td> <td>-3.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>17.67 MHz</td> <td>-0.29 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 17 NOV 2020 15:38:30</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40315 GHz	-9.90 dBm			M2		1	2.40699 GHz	-3.49 dBm			D3	M1	1	17.67 MHz	-0.29 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.40315 GHz	-9.90 dBm																									
M2		1	2.40699 GHz	-3.49 dBm																									
D3	M1	1	17.67 MHz	-0.29 dB																									
CH06	 <p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] -10.62 dBm 2.4281500 GHz M2[1] -4.17 dBm 2.4319900 GHz</p> <p>D1 -10.166 dBm</p> <p>CF 2.437 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.42815 GHz</td> <td>-10.62 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.43199 GHz</td> <td>-4.17 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>17.55 MHz</td> <td>-0.43 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 17 NOV 2020 15:41:36</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.42815 GHz	-10.62 dBm			M2		1	2.43199 GHz	-4.17 dBm			D3	M1	1	17.55 MHz	-0.43 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.42815 GHz	-10.62 dBm																									
M2		1	2.43199 GHz	-4.17 dBm																									
D3	M1	1	17.55 MHz	-0.43 dB																									
CH11	 <p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] -12.33 dBm 2.4531200 GHz M2[1] -4.86 dBm 2.4569900 GHz</p> <p>D1 -10.857 dBm</p> <p>CF 2.462 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.45312 GHz</td> <td>-12.33 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.45699 GHz</td> <td>-4.86 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>17.73 MHz</td> <td>0.21 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 17 NOV 2020 15:44:24</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.45312 GHz	-12.33 dBm			M2		1	2.45699 GHz	-4.86 dBm			D3	M1	1	17.73 MHz	0.21 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.45312 GHz	-12.33 dBm																									
M2		1	2.45699 GHz	-4.86 dBm																									
D3	M1	1	17.73 MHz	0.21 dB																									

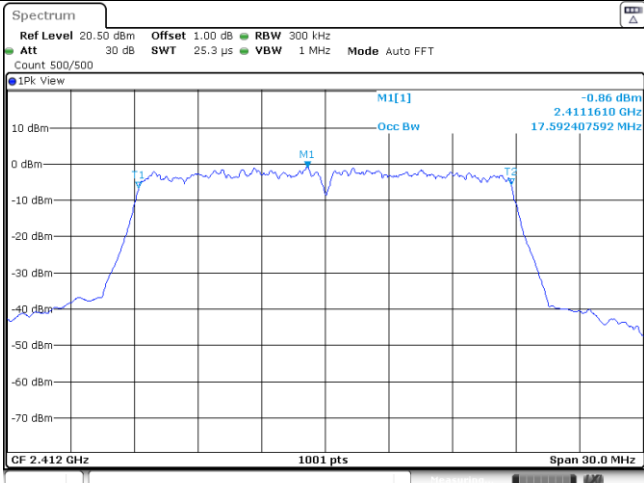
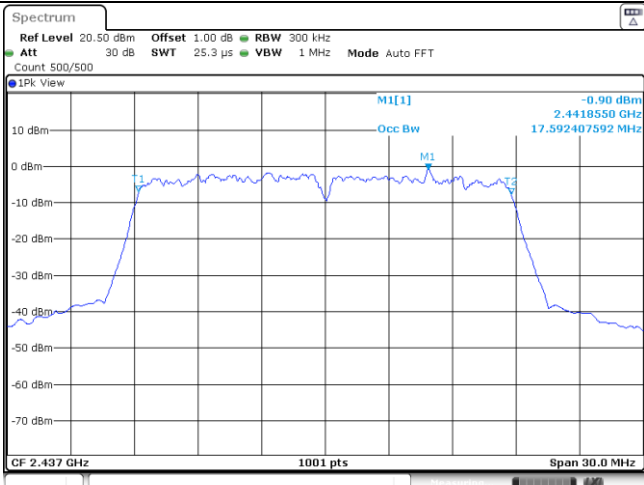
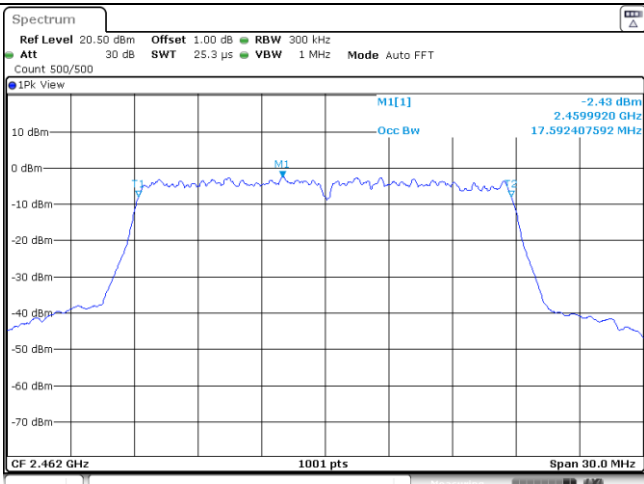
Type:		802.11n(HT40)
CH03	<p style="text-align: center;">Date: 17 NOV 2020 15:49:45</p>	
CH06	<p style="text-align: center;">Date: 17 NOV 2020 15:52:54</p>	
CH09	<p style="text-align: center;">Date: 17 NOV 2020 15:58:55</p>	

Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	12.89	-	Pass
	06	12.89		
	11	12.89		
802.11g	01	16.48	-	Pass
	06	16.54		
	11	16.57		
802.11n(HT20)	01	17.59	-	Pass
	06	17.59		
	11	17.59		
802.11n(HT40)	03	35.96	-	Pass
	06	35.90		
	09	35.90		

Type:		802.11 b
CH01	 <p>Spectrum plot for CH01. The plot shows a signal peak at 2.4127490 GHz with a power level of 5.76 dBm. The plot includes parameters like Ref Level, Att, Offset, RBW, and Span.</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500 IPK View M1[1] 5.76 dBm 2.4127490 GHz Occ Bw 12.887112887 MHz T1 T2 CF 2.412 GHz 1001 pts Span 30.0 MHz Date: 17 NOV 2020 15:13:16</p>	
CH06	 <p>Spectrum plot for CH06. The plot shows a signal peak at 2.4377490 GHz with a power level of 5.22 dBm. The plot includes parameters like Ref Level, Att, Offset, RBW, and Span.</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500 IPK View M1[1] 5.22 dBm 2.4377490 GHz Occ Bw 12.887112887 MHz T1 T2 CF 2.437 GHz 1001 pts Span 30.0 MHz Date: 17 NOV 2020 15:18:59</p>	
CH11	 <p>Spectrum plot for CH11. The plot shows a signal peak at 2.4612510 GHz with a power level of 4.54 dBm. The plot includes parameters like Ref Level, Att, Offset, RBW, and Span.</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500 IPK View M1[1] 4.54 dBm 2.4612510 GHz Occ Bw 12.887112887 MHz T1 T2 CF 2.462 GHz 1001 pts Span 30.0 MHz Date: 17 NOV 2020 15:22:00</p>	

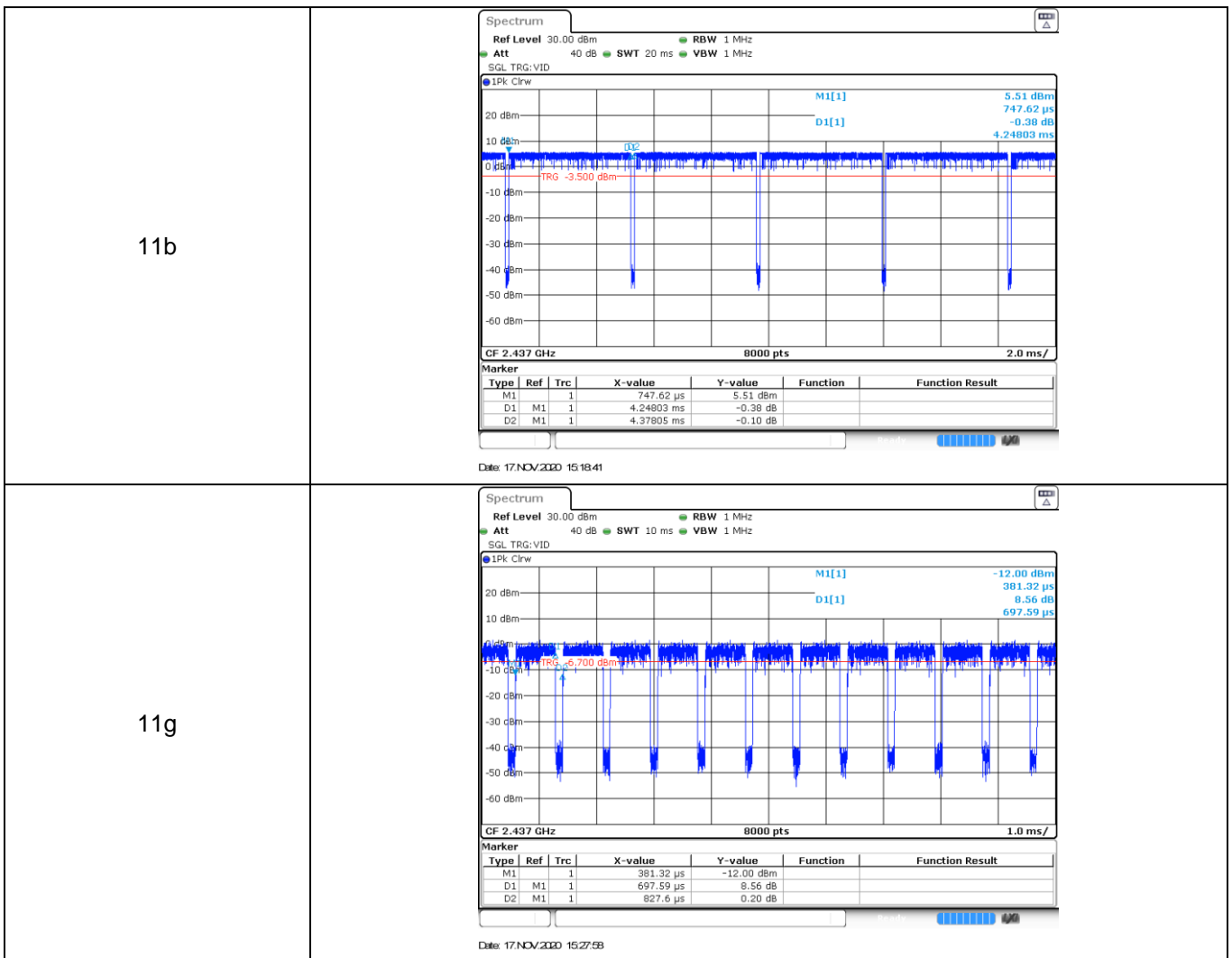
Type:		802.11 g
CH01	 <p>Dates: 17 NOV 2020 15:25:47</p>	
CH06	 <p>Dates: 17 NOV 2020 15:28:16</p>	
CH11	 <p>Dates: 17 NOV 2020 15:30:29</p>	

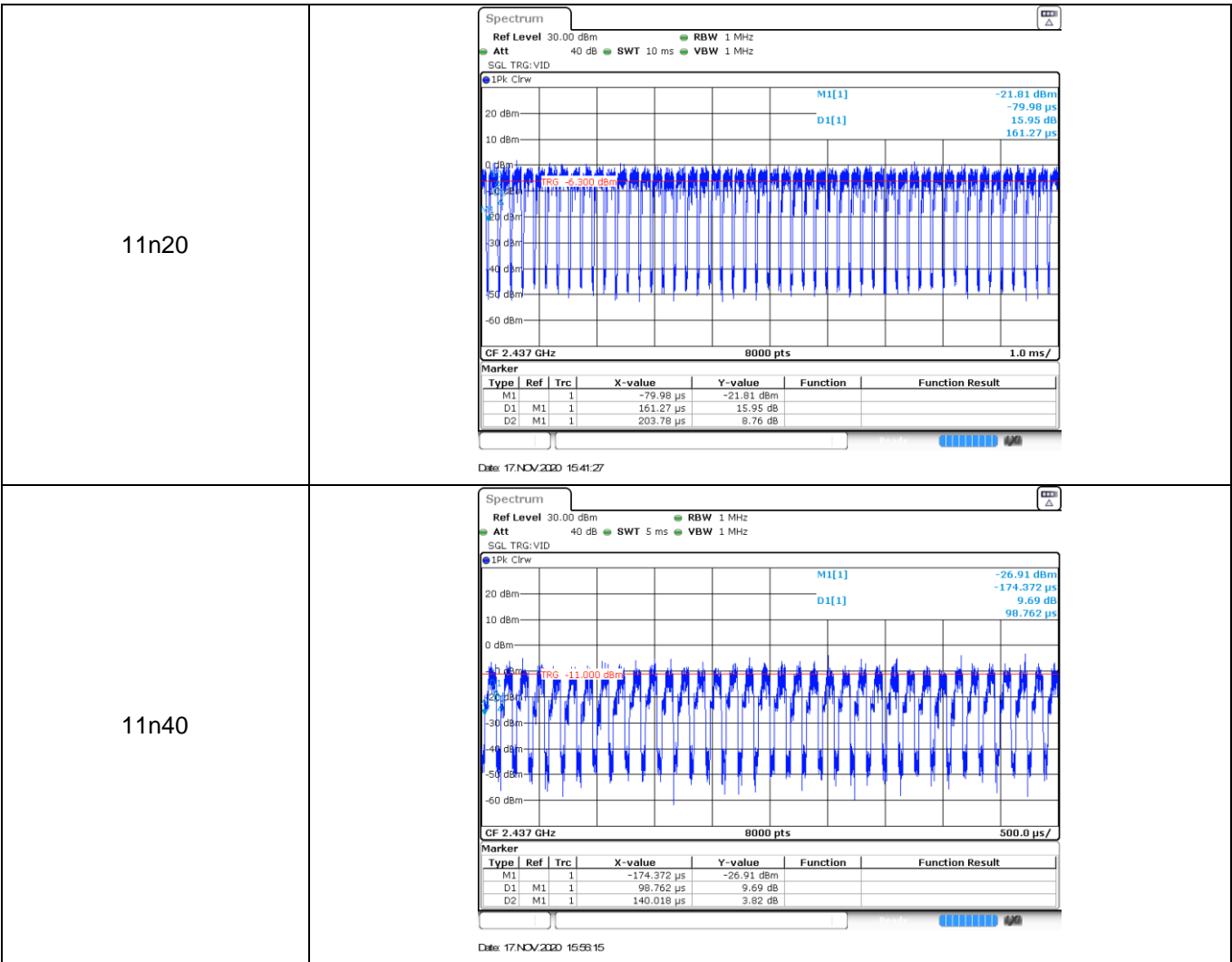
Type:		802.11n(HT20)
CH01	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>M1[1] -0.86 dBm 2.4111610 GHz Occ Bw 17.592407592 MHz</p> <p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 17 NOV 2020 15:38:38</p>	
CH06	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>M1[1] -0.90 dBm 2.4418550 GHz Occ Bw 17.592407592 MHz</p> <p>CF 2.437 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 17 NOV 2020 15:41:46</p>	
CH11	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>M1[1] -2.43 dBm 2.4599920 GHz Occ Bw 17.592407592 MHz</p> <p>CF 2.462 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 17 NOV 2020 15:44:32</p>	

Type:		802.11n(HT40)
CH03	<p>0.73 dBm 2.4176240 GHz 35.964035964 MHz</p> <p>CF 2.422 GHz 1001 pts Span 60.0 MHz</p> <p>Date: 17 NOV 2020 15:49:54</p>	
CH06	<p>0.17 dBm 2.4250120 GHz 35.904095904 MHz</p> <p>CF 2.437 GHz 1001 pts Span 60.0 MHz</p> <p>Date: 17 NOV 2020 15:53:02</p>	
CH09	<p>-0.59 dBm 2.4418310 GHz 35.904095904 MHz</p> <p>CF 2.452 GHz 1001 pts Span 60.0 MHz</p> <p>Date: 17 NOV 2020 15:57:03</p>	

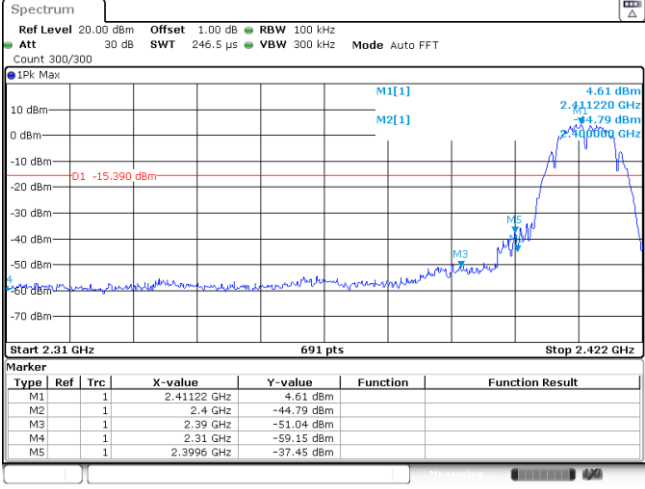
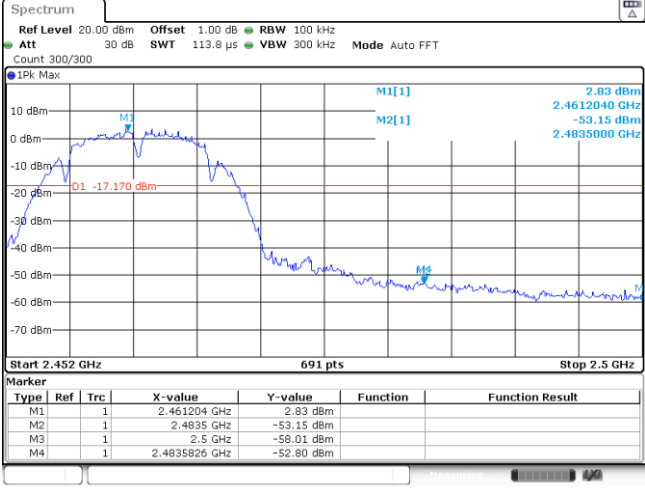
Appendix E: Duty Cycle

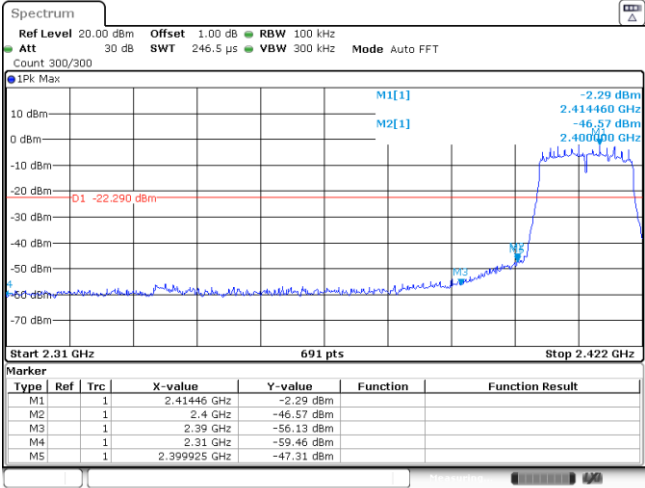
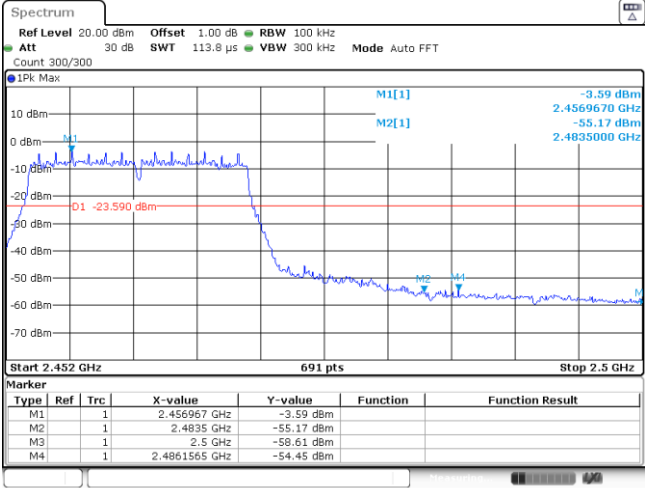
Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	4.25	4.38	97.0%	0.2
11g	2437	0.70	0.83	84.3%	1.4
11n20	2437	0.16	0.20	80.0%	6.3
11n40	2437	0.10	0.14	71.4%	10.0


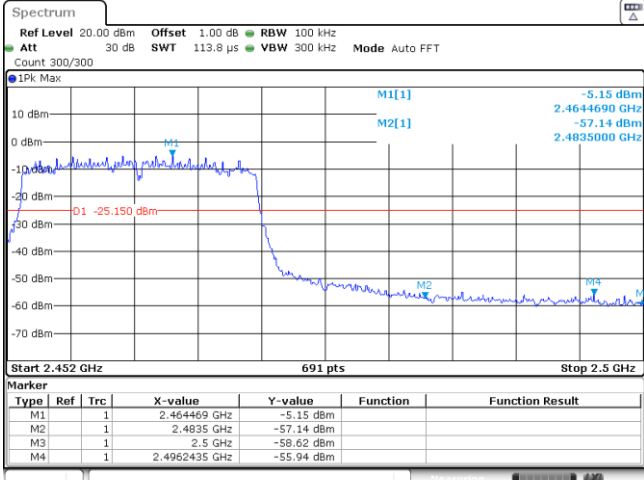


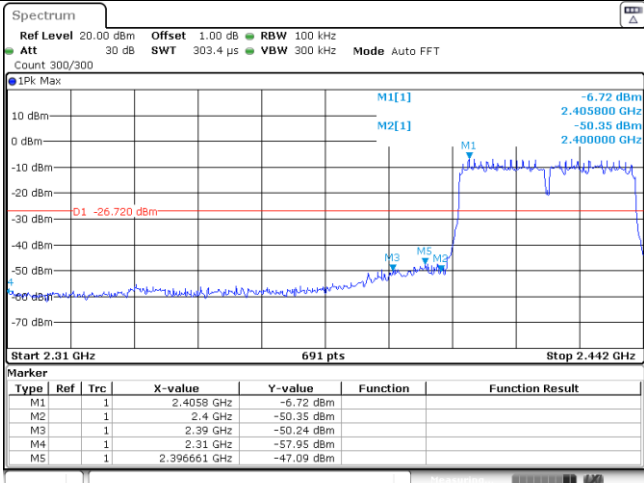
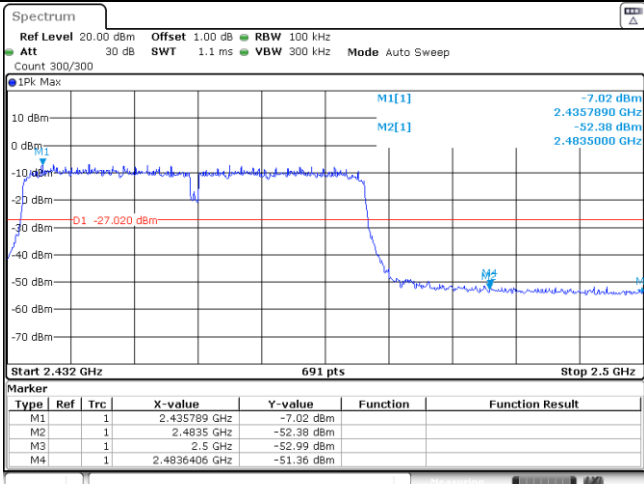


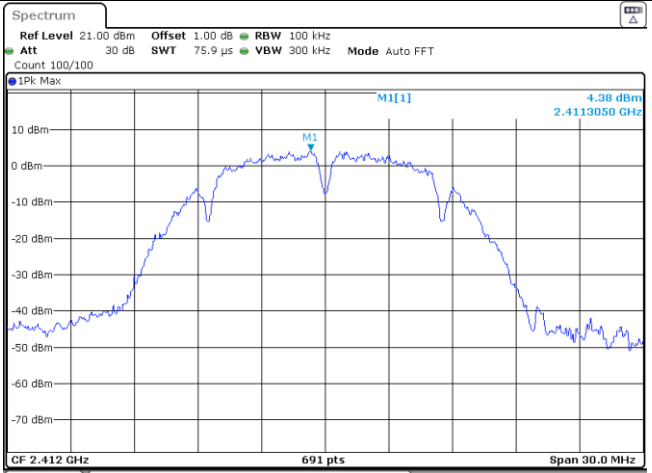
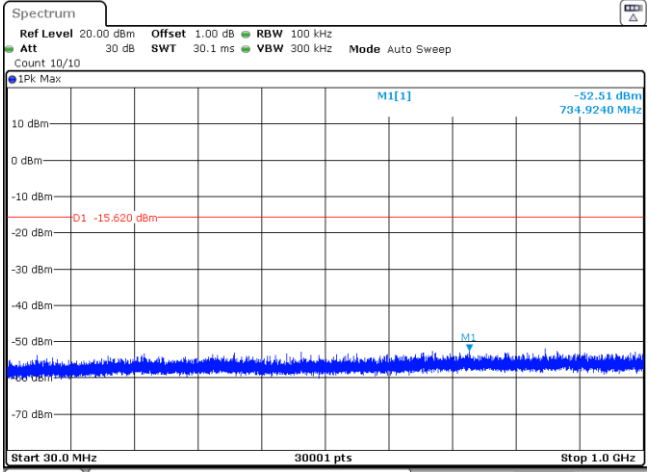
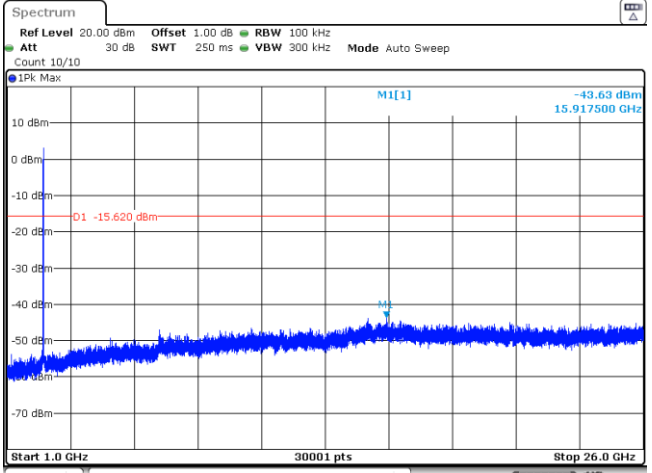
Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Bandedge	Type:	802.11 b																																																
CH01	 <p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] 4.61 dBm 2.411220 GHz M2[1] -44.79 dBm 2.410000 GHz D1 -15.390 dBm M3 -59.15 dBm 2.31 GHz M5 -37.45 dBm 2.3996 GHz</p> <p>Start 2.31 GHz 691 pts Stop 2.422 GHz</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>2.41122 GHz</td> <td>4.61 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4 GHz</td> <td>-44.79 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.39 GHz</td> <td>-51.04 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.31 GHz</td> <td>-59.15 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td></td> <td>2.3996 GHz</td> <td>-37.45 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 17.NOV.2020 15:17:49</p>			Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.41122 GHz	4.61 dBm			M2	1			2.4 GHz	-44.79 dBm			M3	1			2.39 GHz	-51.04 dBm			M4	1			2.31 GHz	-59.15 dBm			M5	1			2.3996 GHz	-37.45 dBm		
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CH11	 <p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 113.8 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] 2.83 dBm 2.461204 GHz M2[1] -53.15 dBm 2.461204 GHz D1 -17.170 dBm M3 -58.01 dBm 2.5 GHz M4 -52.80 dBm 2.4835826 GHz</p> <p>Start 2.452 GHz 691 pts Stop 2.5 GHz</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>2.461204 GHz</td> <td>2.83 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4835 GHz</td> <td>-53.15 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.5 GHz</td> <td>-58.01 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.4835826 GHz</td> <td>-52.80 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 17.NOV.2020 15:23:32</p>			Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.461204 GHz	2.83 dBm			M2	1			2.4835 GHz	-53.15 dBm			M3	1			2.5 GHz	-58.01 dBm			M4	1			2.4835826 GHz	-52.80 dBm										
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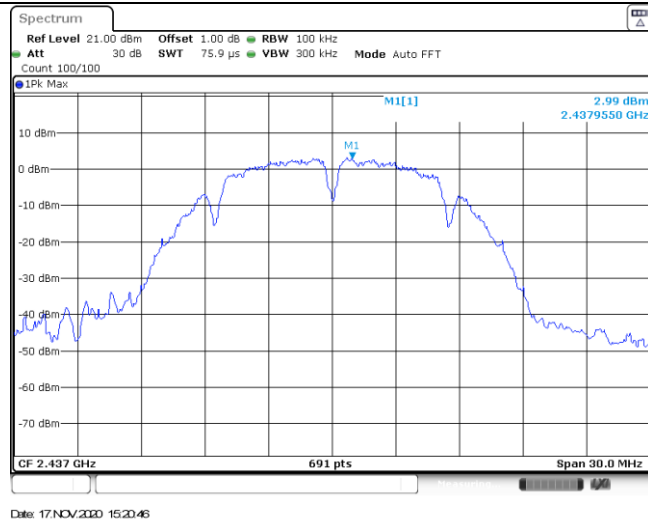
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CH01		 <p>17 NOV 2020 15:28:47</p>	
CH11		 <p>17 NOV 2020 15:31:29</p>	

Test Item:	Bandedge	Type:	802.11 n(HT20)																																										
CH01		 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300</p> <p>Start 2.31 GHz 691 pts Stop 2.422 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40701 GHz</td> <td>-3.64 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-46.96 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-54.09 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-59.12 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399762 GHz</td> <td>-46.29 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 17 NOV 2020 15:40:21</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40701 GHz	-3.64 dBm			M2	1		2.4 GHz	-46.96 dBm			M3	1		2.39 GHz	-54.09 dBm			M4	1		2.31 GHz	-59.12 dBm			M5	1		2.399762 GHz	-46.29 dBm			
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Test Item:	Bandedge	Type:	802.11 n(HT40)																																										
CH03		 <p>1PK Max</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 303.4 μs VBW 300 kHz Mode Auto FFT Count 300/300</p> <p>M1[1] -6.72 dBm 2.405800 GHz M2[1] -50.35 dBm 2.400000 GHz D1 -26.720 dBm</p> <p>Start 2.31 GHz 691 pts Stop 2.442 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.4058 GHz</td> <td>-6.72 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-50.35 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-50.24 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-57.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.39661 GHz</td> <td>-47.09 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 17 NOV 2020 15:51:17</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.4058 GHz	-6.72 dBm			M2	1		2.4 GHz	-50.35 dBm			M3	1		2.39 GHz	-50.24 dBm			M4	1		2.31 GHz	-57.95 dBm			M5	1		2.39661 GHz	-47.09 dBm			
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M4	1		2.31 GHz	-57.95 dBm																																									
M5	1		2.39661 GHz	-47.09 dBm																																									
CH09		 <p>1PK Max</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300</p> <p>M1[1] -7.02 dBm 2.435789 GHz M2[1] -52.38 dBm 2.4835000 GHz D1 -27.020 dBm</p> <p>Start 2.432 GHz 691 pts Stop 2.5 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.435789 GHz</td> <td>-7.02 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-52.38 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-52.99 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.4836406 GHz</td> <td>-51.36 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 17 NOV 2020 15:59:28</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.435789 GHz	-7.02 dBm			M2	1		2.4835 GHz	-52.38 dBm			M3	1		2.5 GHz	-52.99 dBm			M4	1		2.4836406 GHz	-51.36 dBm										
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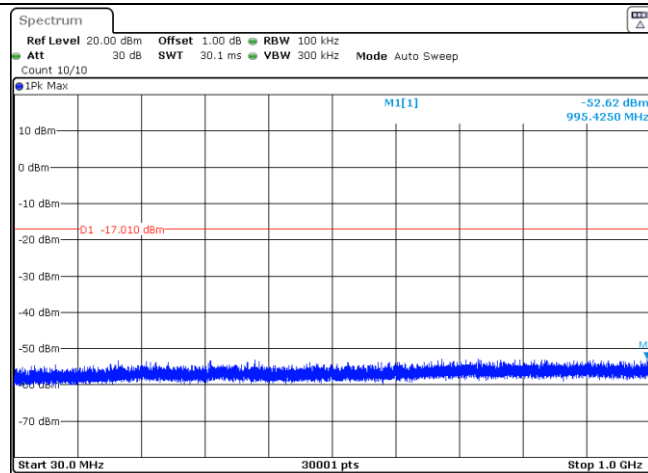
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<p>CH01 30MHz~1000MHz</p>		 <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 17.NOV.2020 15:16:49</p>	
<p>CH01 1GHz~26GHz</p>		 <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 17.NOV.2020 15:17:05</p>	

CH06
Reference level



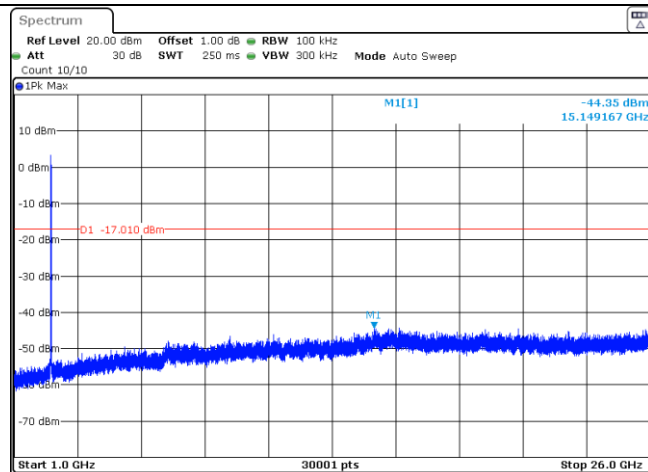
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CH06
30MHz~1000MHz



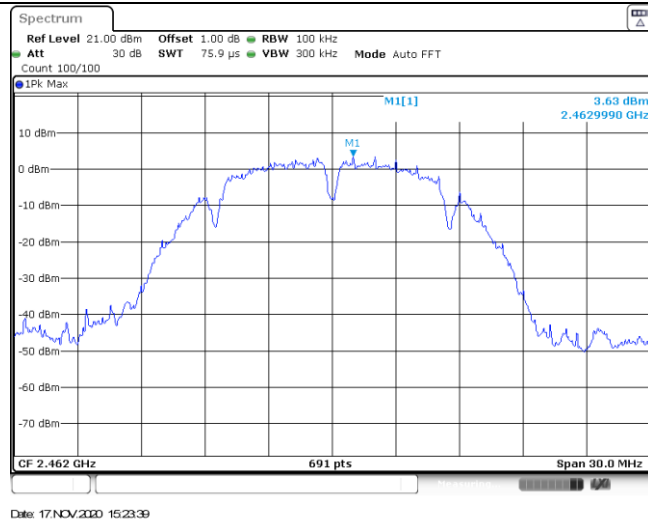
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CH06
1GHz~26GHz

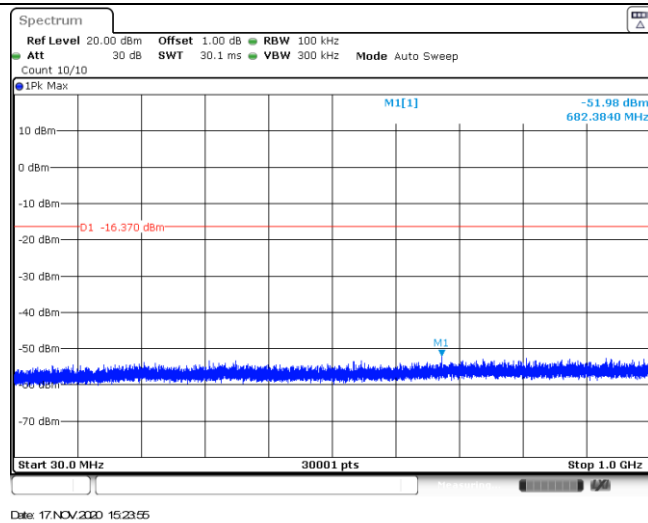


Date: 17.NOV.2020 15:21:18

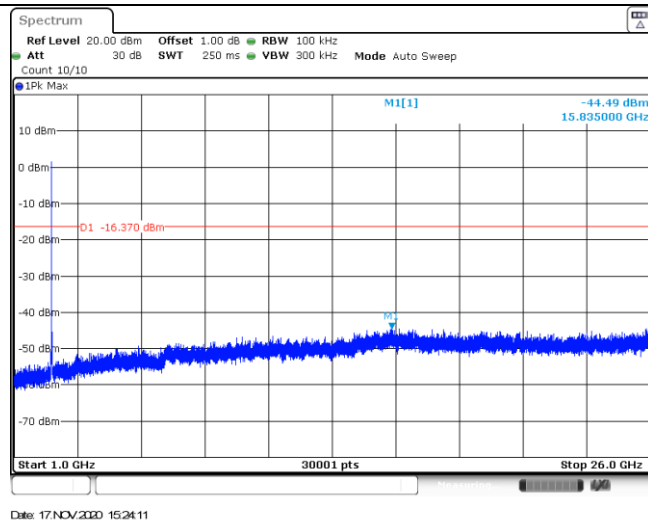
CH11
Reference level

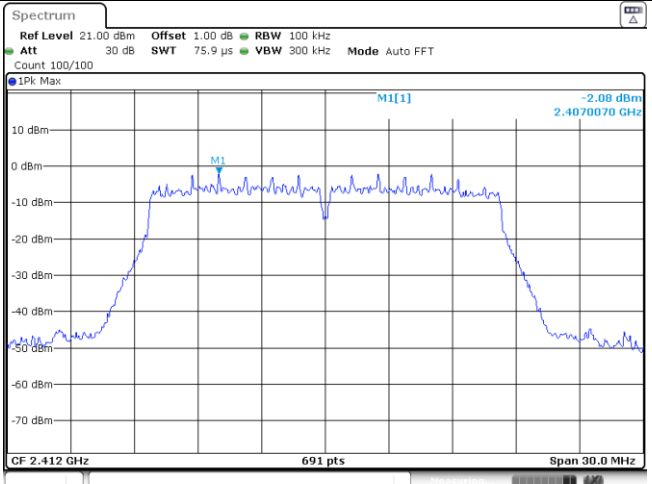
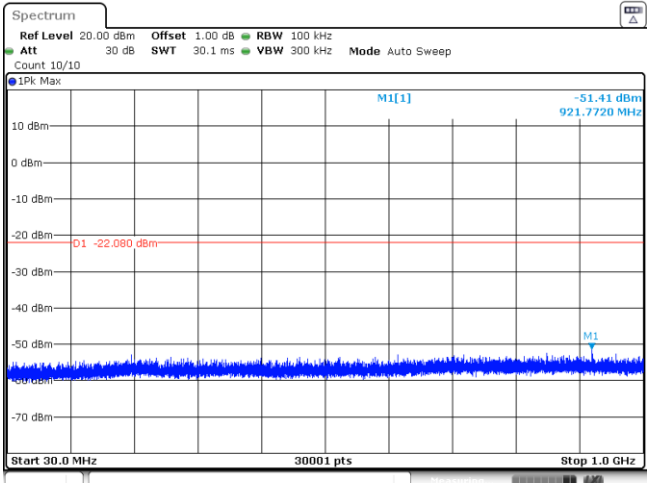
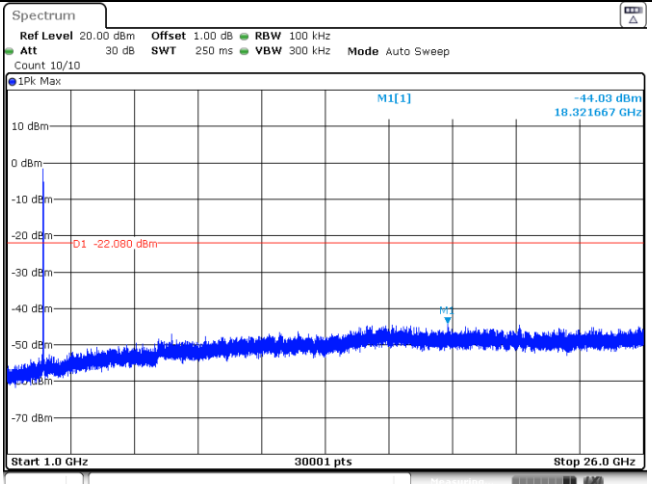


CH11
30MHz~1000MHz

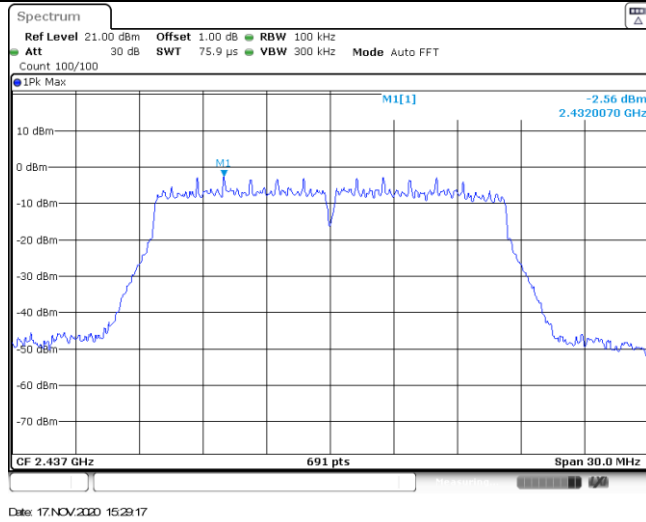


CH11
1GHz~26GHz

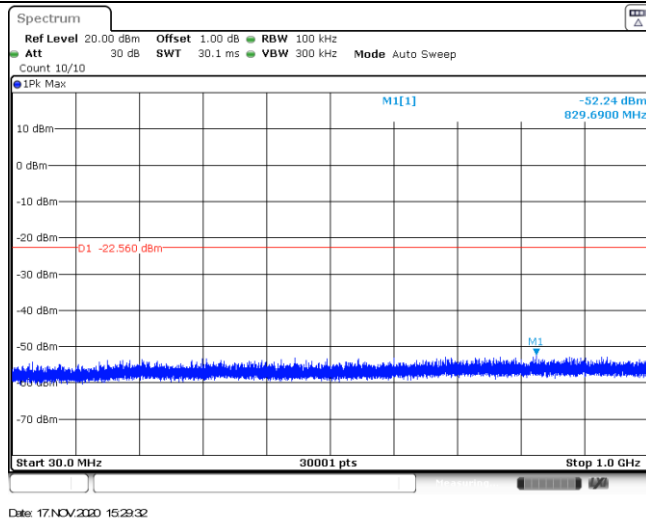


Test Item:	SE	Type:	802.11g
<p>CH01 Reference level</p>		 <p>Spectrum</p> <p>Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] -2.08 dBm 2.4070070 GHz</p> <p>CF 2.412 GHz 691 pts Span 30.0 MHz</p> <p>Date: 17.NOV.2020 16:12:36</p>	
<p>CH01 30MHz~1000MHz</p>		 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10</p> <p>IPK Max</p> <p>M1[1] -51.41 dBm 921.7720 MHz</p> <p>D1 -22.080 dBm</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 17.NOV.2020 16:12:52</p>	
<p>CH01 1GHz~26GHz</p>		 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10</p> <p>IPK Max</p> <p>M1[1] -44.03 dBm 18.321667 GHz</p> <p>D1 -22.080 dBm</p> <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 17.NOV.2020 16:13:08</p>	

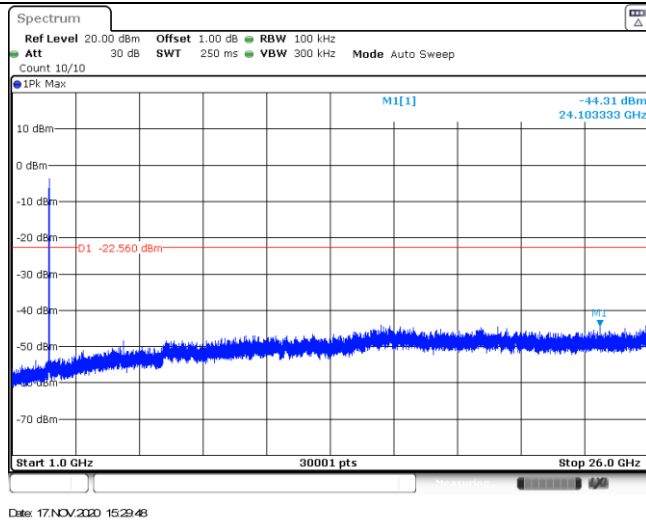
CH06
Reference level



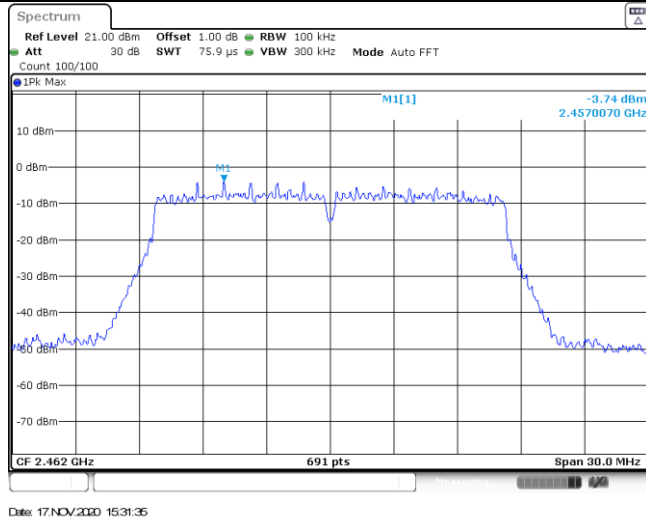
CH06
30MHz~1000MHz



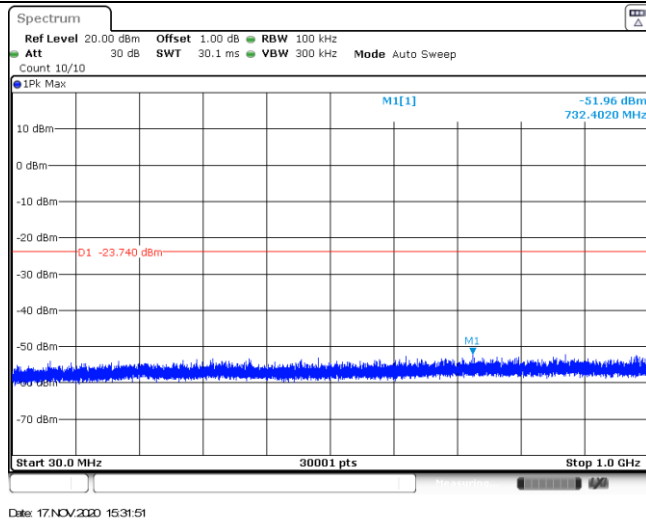
CH06
1GHz~26GHz



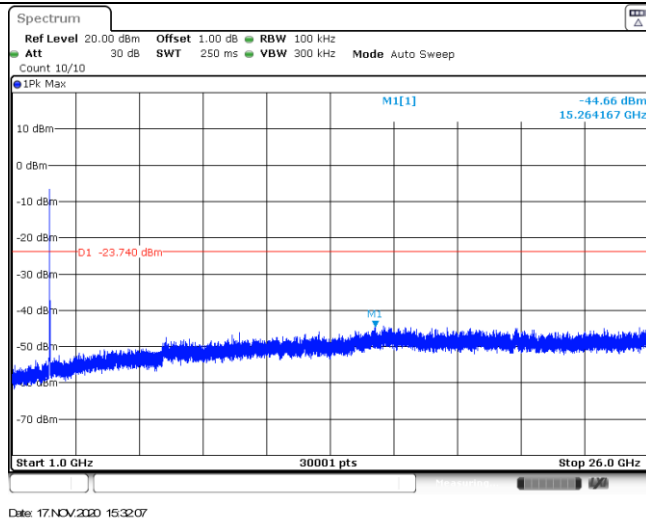
CH11
Reference level

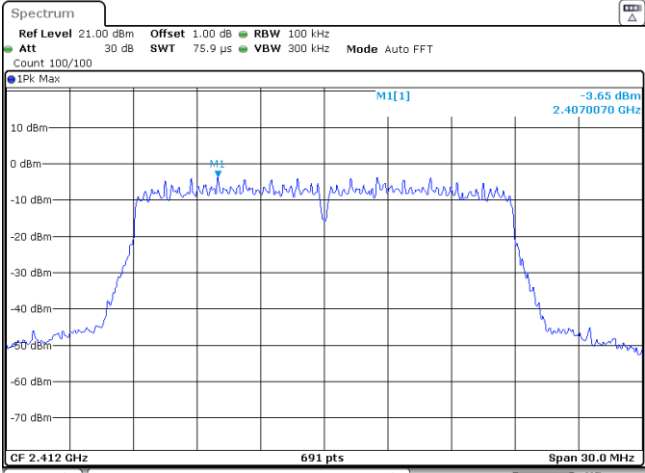
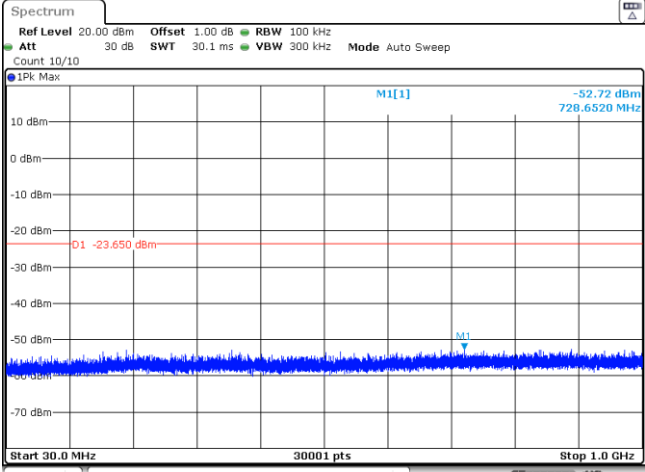
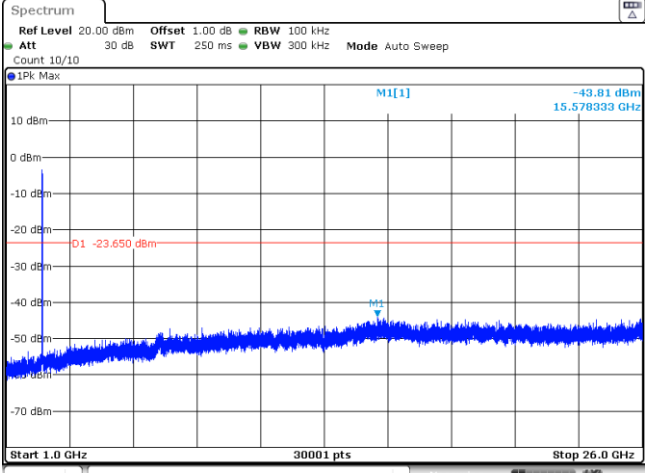


CH11
30MHz~1000MHz

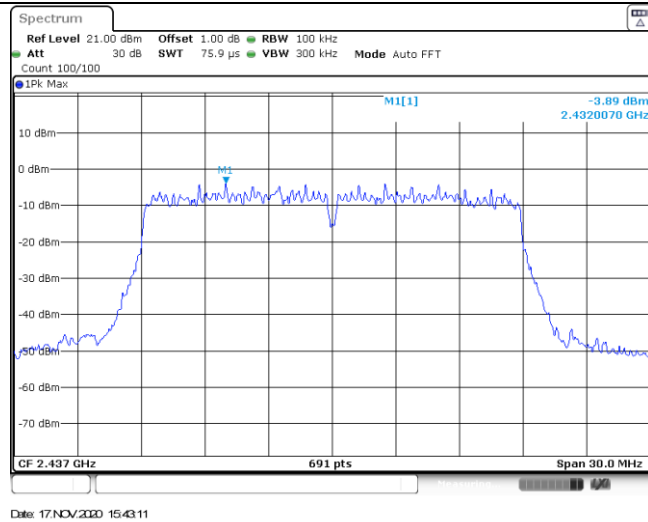


CH11
1GHz~26GHz

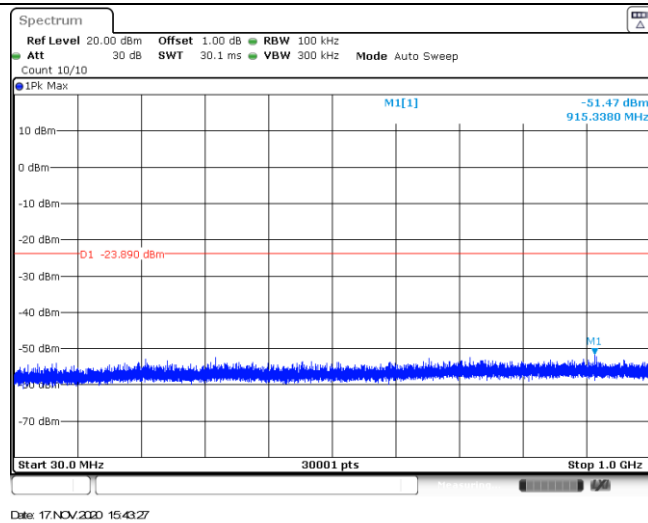


Test Item:	SE	Type:	802.11n(HT20)
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<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			

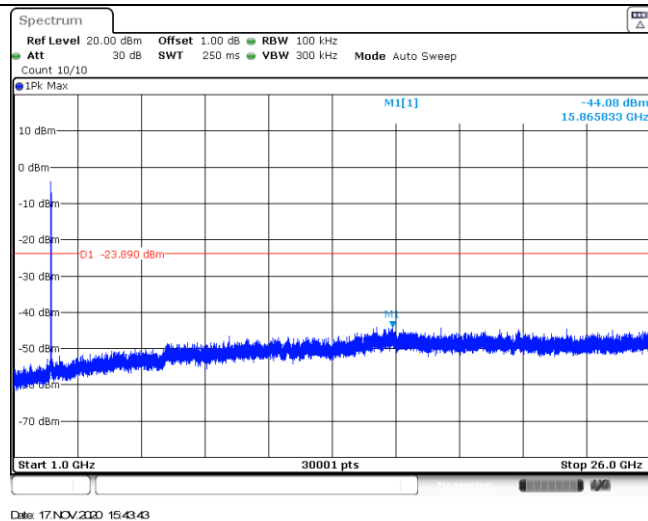
CH06
Reference level



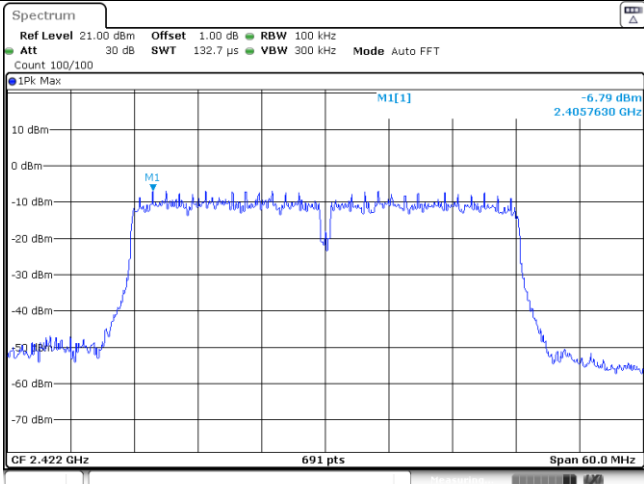
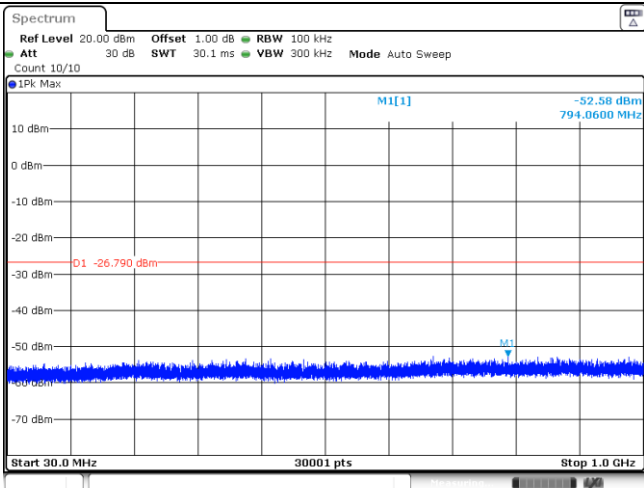
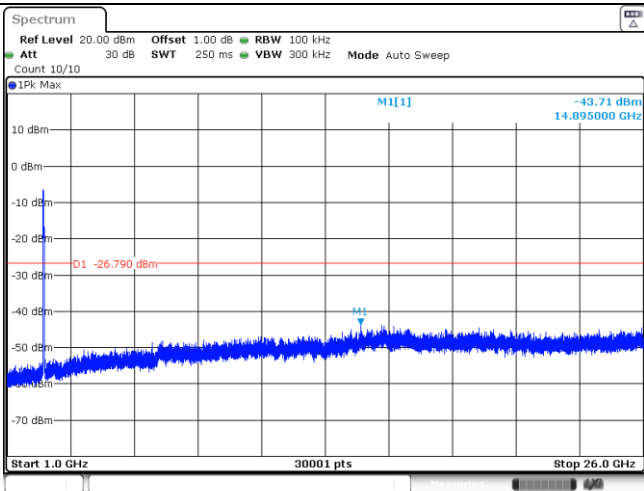
CH06
30MHz~1000MHz



CH06
1GHz~26GHz

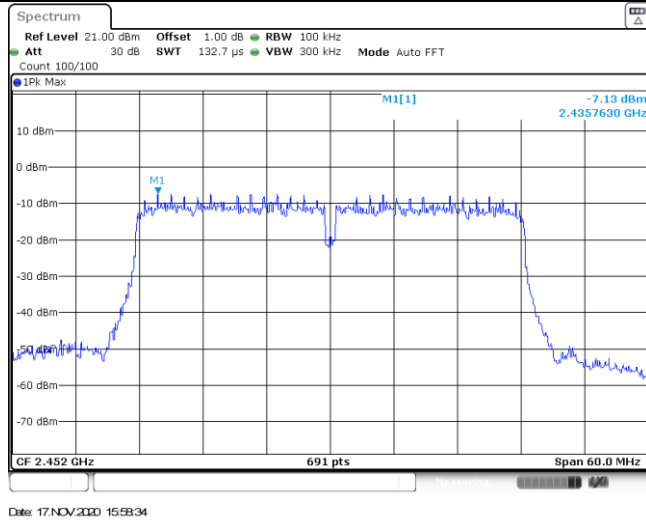


<p>CH11 Reference level</p>	<p>Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 IPK Max M1[1] -4.90 dBm 2.4570070 GHz CF 2.462 GHz 691 pts Span 30.0 MHz Date: 17.NOV.2020 15:47:52</p>
<p>CH11 30MHz~1000MHz</p>	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPK Max M1[1] -52.50 dBm 742.4570 MHz D1 -24.900 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 17.NOV.2020 15:48:08</p>
<p>CH11 1GHz~26GHz</p>	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPK Max M1[1] -44.38 dBm 15.539167 GHz D1 -24.900 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 17.NOV.2020 15:48:24</p>

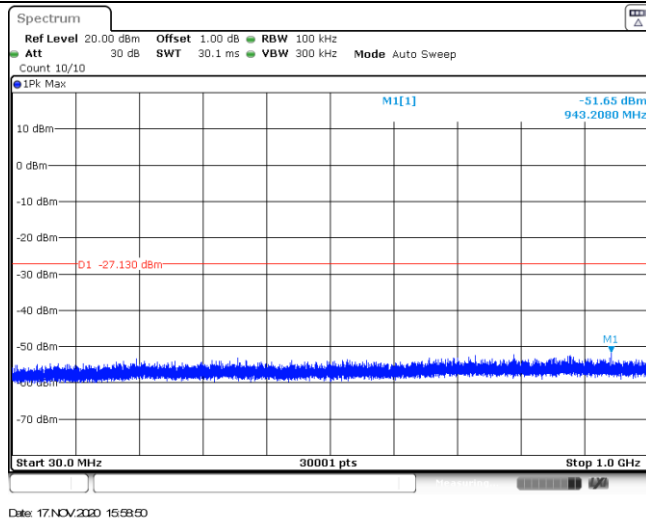
Test Item:	SE	Type:	802.11n(HT40)
<p>CH03 Reference level</p>		 <p>Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 132.7 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -6.79 dBm 2.4057630 GHz CF 2.422 GHz 691 pts Span 60.0 MHz Date: 17.NOV.2020 15:51:23</p>	
<p>CH03 30MHz~1000MHz</p>		 <p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -52.58 dBm 794.0600 MHz D1 -26.790 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 17.NOV.2020 15:51:39</p>	
<p>CH03 1GHz~26GHz</p>		 <p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -43.71 dBm 14.895000 GHz D1 -26.790 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 17.NOV.2020 15:51:55</p>	

<p>CH06 Reference level</p>	<p>Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 132.7 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -6.86 dBm 2.4207630 GHz CF 2.437 GHz 691 pts Span 60.0 MHz Date: 17.NOV.2020 16:08:24</p>
<p>CH06 30MHz~1000MHz</p>	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -52.31 dBm 841.0380 MHz D1 -26.860 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 17.NOV.2020 16:08:39</p>
<p>CH06 1GHz~26GHz</p>	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -43.42 dBm 15.804167 GHz D1 -26.860 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 17.NOV.2020 16:08:55</p>

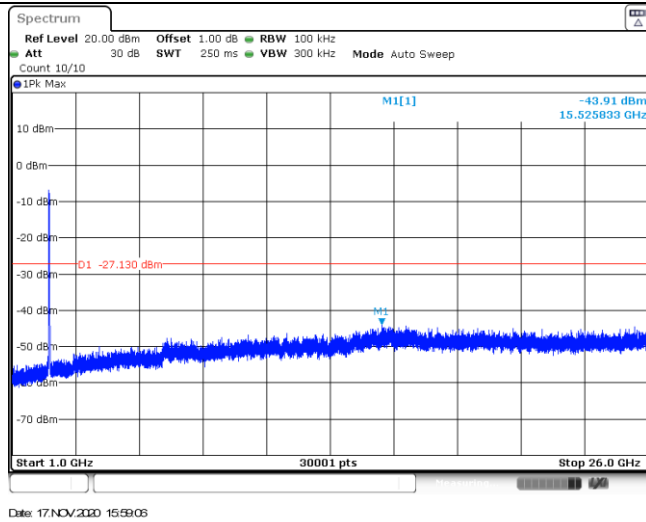
CH09
Reference level



CH09
30MHz~1000MHz



CH09
1GHz~26GHz



-----End of Report-----