

TEST REPORT

Report No. : CHTEW21100147 Report Verification: 

Project No..... : SHT2108044901EW

FCC ID..... : 2A3E5-EYEONG

Applicant's name : EyeTech Digital Systems, Inc.

Address..... : 2141 E Broadway Rd, Ste 202, Tempe, AZ 85282, United States of America

Test item description : EyeOn Go

Trade Mark : EyeOn

Model/Type reference..... : EyeOn-10NE

Listed Model(s) : -

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

Date of receipt of test sample..... : Sep.06, 2021

Date of testing..... : Sep.07, 2021-Oct.19, 2021

Date of issue..... : Oct.21, 2021

Result..... : PASS

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Hans Hu

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	2021-10-21	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:	EyeTech Digital Systems, Inc.
Address:	2141 E Broadway Rd, Ste 202, Tempe, AZ 85282, United States of America
Manufacturer:	Shenzhen Chuangwei Electronic Appliance Tech Co.,Ltd.
Address:	4F&6F, Overseas plant south, Skyworth Industrial Park, Shiyan Street, Bao'an District, Shenzhen, Guangdong, P.R. China
Factory:	Shenzhen Chuangwei Electronic Appliance Tech Co.,Ltd.
Address:	4F&6F, Overseas plant south, Skyworth Industrial Park, Shiyan Street, Bao'an District, Shenzhen, Guangdong, P.R. China

3.2. Product Description

Name of EUT:	EyeOn Go
Trade Mark:	EyeOn
Model No.:	EyeOn-10NE
Listed Model(s):	-
Power supply:	DC3.8V from battery
Adapter Information:	Model: SYS1649-6012-T3 Input:100-240Va.c., 1.5A MAX, 50-60Hz Output: 12.0Vd.c., 5.0A
Hardware version:	TO116K_MB_V4.0
Software version:	TO116K_Y10_V3.0.0_20210923

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:	PIFA Antenna
Antenna gain:	2.6dBi

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	
Connect information:	Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC	762235

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	Equipement	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	2021/9/14	2022/9/13
●	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2021/9/17	2022/9/16
●	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2021/9/13	2022/9/12
●	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLEX 142	EF-NM-BNCM-2M	2021/9/17	2022/9/16
●	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	2022/09/29
●	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2021/9/14	2022/9/13
●	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/04/06	2022/04/05
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/04/06	2022/04/05
●	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	2021/02/26	2022/02/25
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2021/02/26	2022/02/25
●	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	2022/09/26
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2021/9/13	2022/9/12
●	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
●	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2020/4/27	2023/4/27
●	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2020/11/13	2021/11/12
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2021/03/05	2022/03/04
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2021/02/26	2022/02/25
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
●	RF Connection Cable	HUBER+SUHNER	HTWE0119-05	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
●	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	6m 18GHz S Serisa	N/A	2021/02/26	2022/02/25
●	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	2021/9/13	2022/9/12
●	Spectrum Analyzer	Agilent	N9020A	MY50510187	2021/9/13	2022/9/12
●	Power Meter	Anritsu	ML249A	N/A	2021/9/13	2022/9/12
○	Radio communication tester	R&S	CMW500	137688-Lv	2021/9/13	2022/9/12

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 PIFA antenna, the directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.

|



5.2. AC Conducted Emission

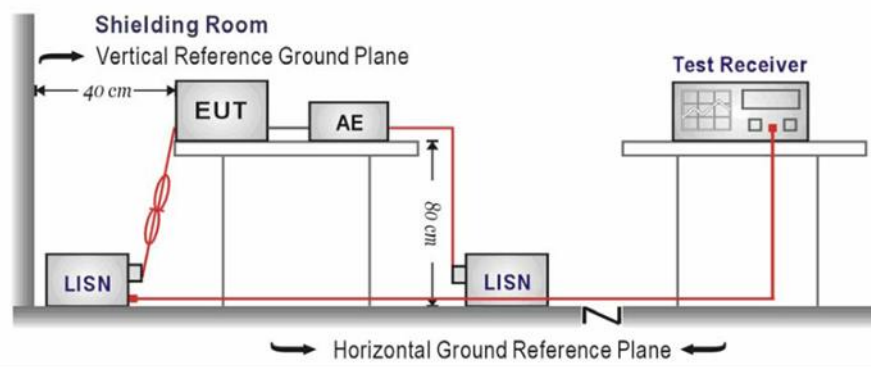
LIMIT

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:

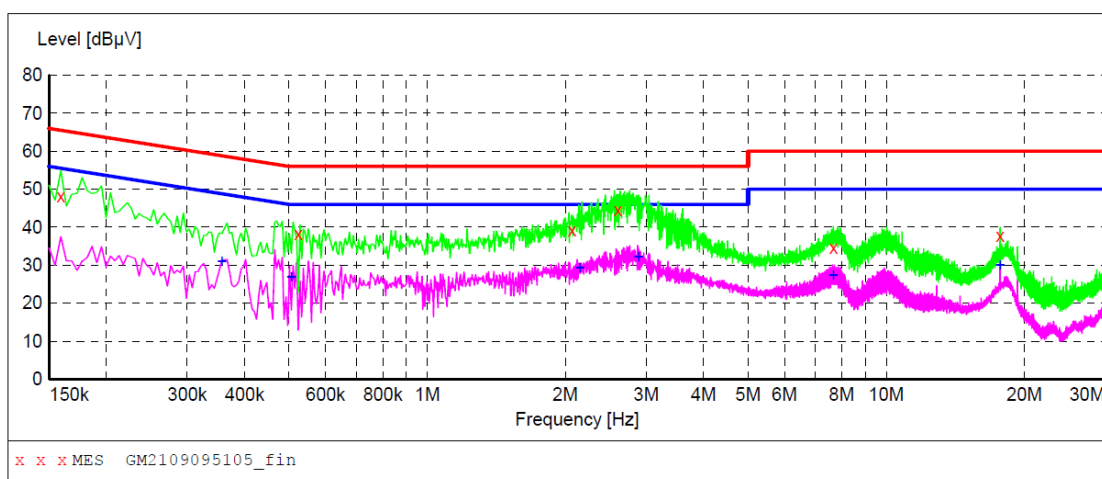
Please refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

Test Line:

L

**MEASUREMENT RESULT: "GM2109095105_fin"**

9/9/2021 5:42PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.159000	48.10	10.2	66	17.4	QP	L1	GND
0.523500	38.10	10.2	56	17.9	QP	L1	GND
2.067000	39.10	10.2	56	16.9	QP	L1	GND
2.602500	44.60	10.2	56	11.4	QP	L1	GND
7.669500	34.60	10.2	60	25.4	QP	L1	GND
17.709000	37.70	10.3	60	22.3	QP	L1	GND

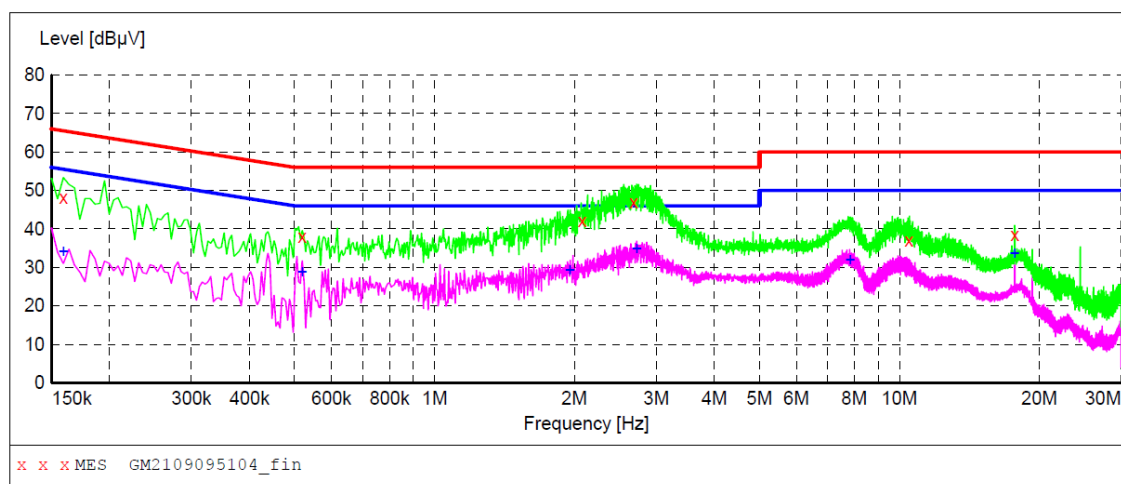
MEASUREMENT RESULT: "GM2109095105_fin2"

9/9/2021 5:42PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.357000	31.10	10.2	49	17.7	AV	L1	GND
0.505500	26.90	10.2	46	19.1	AV	L1	GND
2.148000	29.20	10.2	46	16.8	AV	L1	GND
2.886000	32.10	10.2	46	13.9	AV	L1	GND
7.665000	27.30	10.2	50	22.7	AV	L1	GND
17.709000	30.00	10.3	50	20.0	AV	L1	GND

Test Line:

N

**MEASUREMENT RESULT: "GM2109095104_fin"**

9/9/2021 5:39PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.159000	48.20	10.2	66	17.3	QP	N	GND
0.519000	38.00	10.2	56	18.0	QP	N	GND
2.076000	42.00	10.2	56	14.0	QP	N	GND
2.679000	46.90	10.2	56	9.1	QP	N	GND
10.477500	37.10	10.3	60	22.9	QP	N	GND
17.700000	38.50	10.3	60	21.5	QP	N	GND

MEASUREMENT RESULT: "GM2109095104_fin2"

9/9/2021 5:39PM

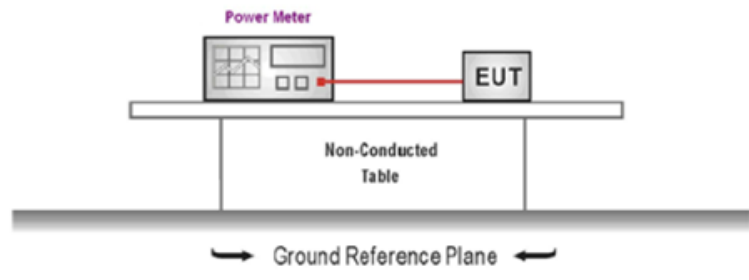
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.159000	34.20	10.2	56	21.3	AV	N	GND
0.519000	28.80	10.2	46	17.2	AV	N	GND
1.954500	29.20	10.2	46	16.8	AV	N	GND
2.719500	34.90	10.2	46	11.1	AV	N	GND
7.827000	31.90	10.2	50	18.1	AV	N	GND
17.704500	33.50	10.3	50	16.5	AV	N	GND

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

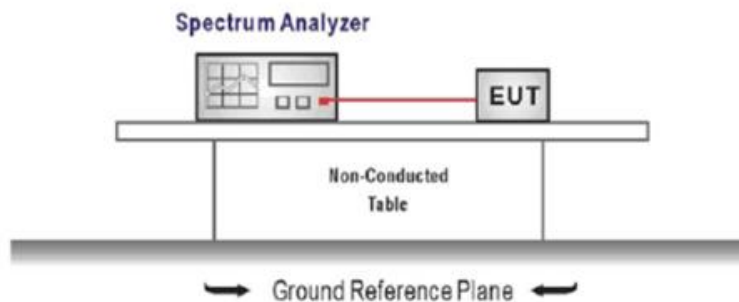
5.4. Power Spectral Density

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
 $RBW = 3 \text{ kHz} \leq RBW \leq 100 \text{ kHz}$, $VBW \geq 3 \times RBW$
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 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

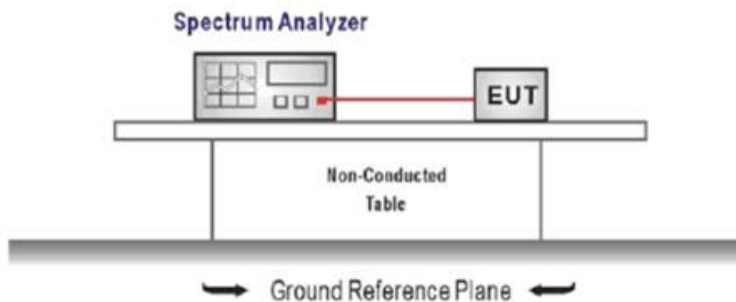
5.5. 6dB bandwidth

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 $\geq 3 \times$ 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.
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

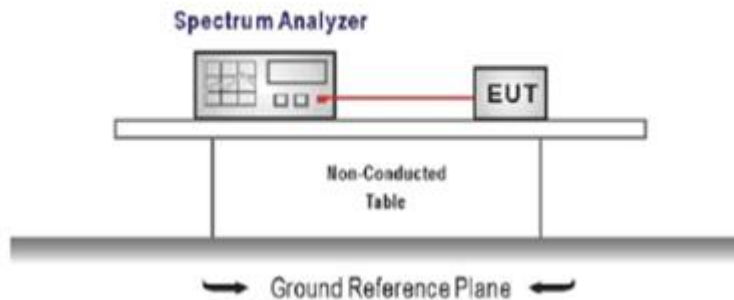
Please refer to appendix C on the appendix report

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 $\geq 1.5 \times \text{OBW}$
RBW = 1%~5%OBW
VBW $\geq 3 \times \text{RBW}$
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

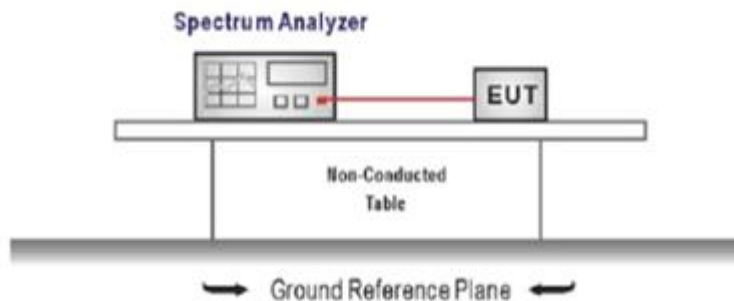
Please refer to appendix D on the appendix report

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

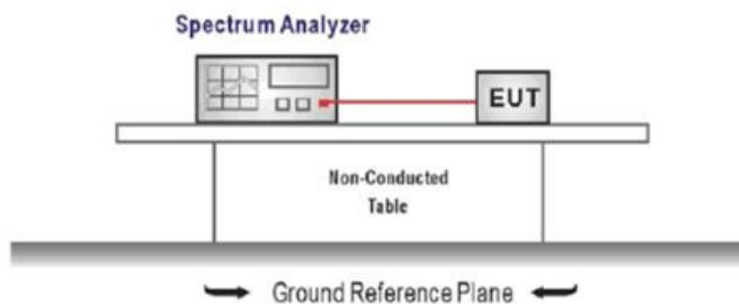
Please refer to appendix E on the appendix report

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

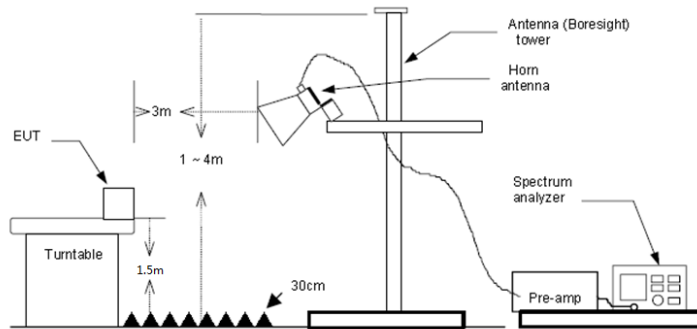
5.9. Radiated Band edge Emission

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	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark	
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit		
1	2310.00	37.40	27.96	5.43	37.56	20.00	53.23	74.00	-20.77	Peak	
2	2390.01	39.15	27.72	5.53	37.45	20.00	54.95	74.00	-19.05	Peak	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark	
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit		
1	2310.00	31.07	27.96	5.43	37.56	20.00	46.90	54.00	-7.10	Average	
2	2390.01	31.74	27.72	5.53	37.45	20.00	47.54	54.00	-6.46	Average	

Type		802.11b		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	2310.00	36.91	27.96	5.43	37.56	20.00	52.74	74.00	-21.26	Peak	
2	2390.01	37.73	27.72	5.53	37.45	20.00	53.53	74.00	-20.47	Peak	

Type		802.11b		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	2483.49	30.29	27.43	5.64	37.26	20.00	46.10	54.00	-7.90	Average	
2	2500.00	30.83	27.40	5.66	37.26	20.00	46.63	54.00	-7.37	Average	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark	
	MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit		
1	2483.49	38.25	27.43	5.64	37.26	20.00	54.06	74.00	-19.94	Peak	
2	2500.00	38.20	27.40	5.66	37.26	20.00	54.00	74.00	-20.00	Peak	

Type		802.11b		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	2483.49	37.69	27.43	5.64	37.26	20.00	53.50	74.00	-20.50	Peak	
2	2500.00	37.11	27.40	5.66	37.26	20.00	52.91	74.00	-21.09	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	37.51	27.96	5.43	37.56	20.00	53.34	74.00	-20.66	Peak	
2	2390.01	37.29	27.72	5.53	37.45	20.00	53.09	74.00	-20.91	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	37.66	27.96	5.43	37.56	20.00	53.49	74.00	-20.51	Peak	
2	2390.01	37.44	27.72	5.53	37.45	20.00	53.24	74.00	-20.76	Peak	

Type		802.11g		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	2483.49	38.14	27.43	5.64	37.26	20.00	53.95	74.00	-20.05	Peak	
2	2500.00	37.71	27.40	5.66	37.26	20.00	53.51	74.00	-20.49	Peak	

Type		802.11g		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	2483.49	37.81	27.43	5.64	37.26	20.00	53.62	74.00	-20.38	Peak	
2	2500.00	37.42	27.40	5.66	37.26	20.00	53.22	74.00	-20.78	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	2310.00	38.16	27.96	5.43	37.56	20.00	53.99	74.00	-20.01	Peak
2	2390.01	37.25	27.72	5.53	37.45	20.00	53.05	74.00	-20.95	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	2310.00	37.00	27.96	5.43	37.56	20.00	52.83	74.00	-21.17	Peak
2	2390.01	37.60	27.72	5.53	37.45	20.00	53.40	74.00	-20.60	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	2483.49	37.92	27.43	5.64	37.26	20.00	53.73	74.00	-20.27	Peak
2	2500.00	37.81	27.40	5.66	37.26	20.00	53.61	74.00	-20.39	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	2483.49	37.63	27.43	5.64	37.26	20.00	53.44	74.00	-20.56	Peak
2	2500.00	37.32	27.40	5.66	37.26	20.00	53.12	74.00	-20.88	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	37.76	27.96	5.43	37.56	20.00	53.59	74.00	-20.41	Peak	
2	2389.99	37.46	27.72	5.53	37.45	20.00	53.26	74.00	-20.74	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	37.77	27.96	5.43	37.56	20.00	53.60	74.00	-20.40	Peak	
2	2389.99	37.95	27.72	5.53	37.45	20.00	53.75	74.00	-20.25	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	38.79	27.43	5.64	37.26	20.00	54.60	74.00	-19.40	Peak	
2	2500.00	37.80	27.40	5.66	37.26	20.00	53.60	74.00	-20.40	Peak	
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	26.66	27.43	5.64	37.26	20.00	42.47	54.00	-11.53	Average	
2	2500.00	26.60	27.40	5.66	37.26	20.00	42.40	54.00	-11.60	Average	

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	37.60	27.43	5.64	37.26	20.00	53.41	74.00	-20.59	Peak	
2	2500.00	37.11	27.40	5.66	37.26	20.00	52.91	74.00	-21.09	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

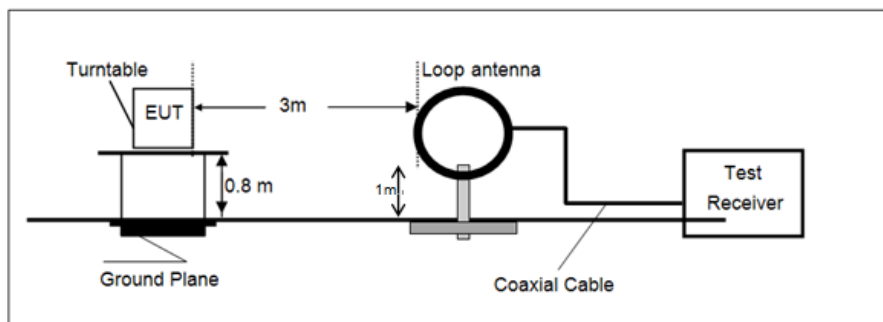
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + $40 \cdot \log(300/3)$ = Limit dBuV/m @300m + 80,

Limit dBuV/m @3m = Limit dBuV/m @30m + $40 \cdot \log(30/3)$ = Limit dBuV/m @30m + 40.

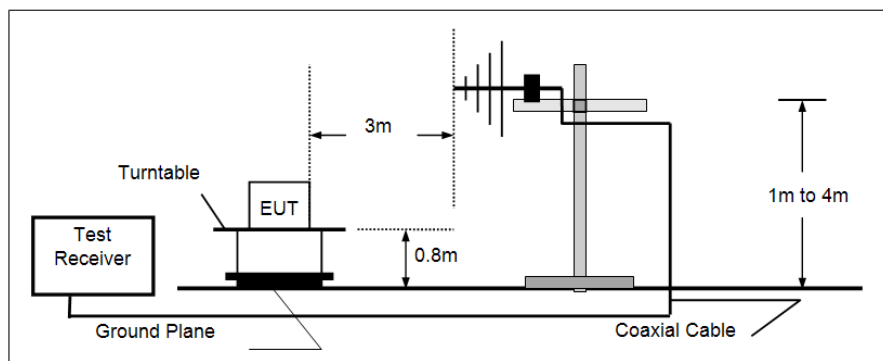
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

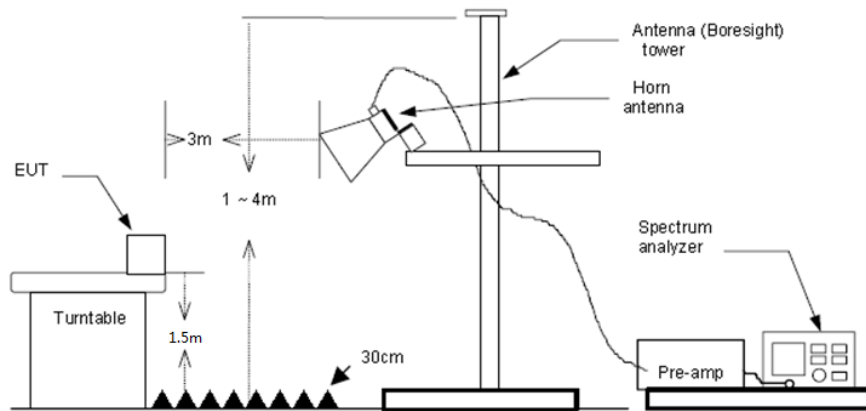
➤ 9 kHz ~ 30 MHz



➤ 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

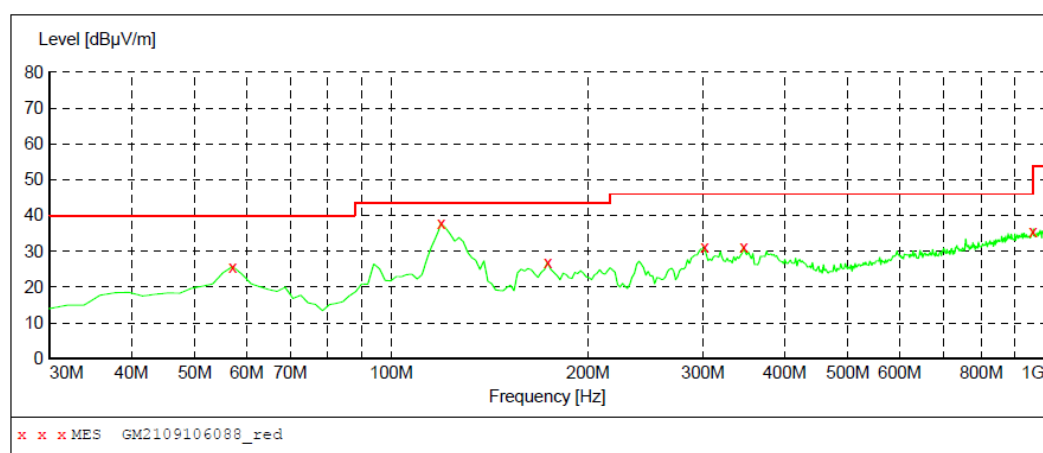
The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

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

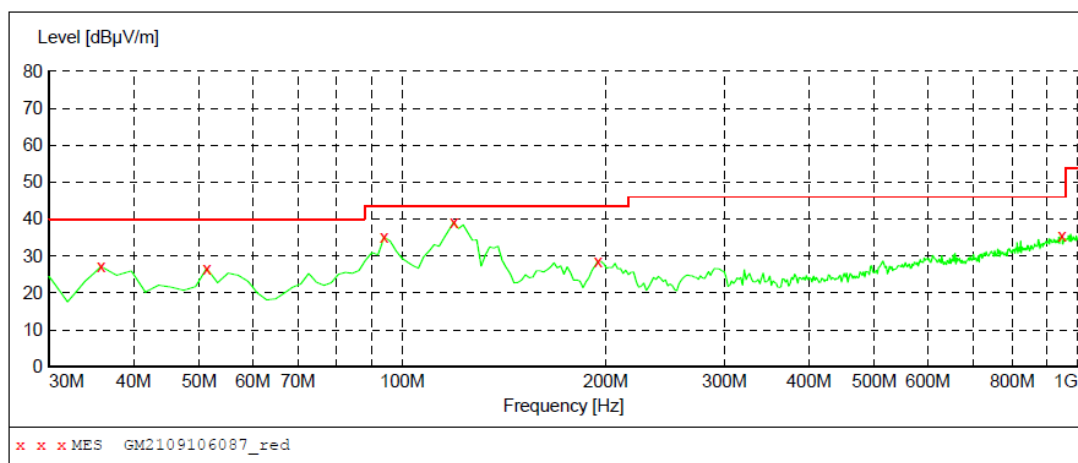
**MEASUREMENT RESULT: "GM2109106088_red"**

9/10/2021 7:10PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
57.160000	25.70	-9.4	40.0	14.3	QP	300.0	129.00	HORIZONTAL
119.240000	37.80	-12.5	43.5	5.7	QP	300.0	360.00	HORIZONTAL
173.560000	26.90	-12.6	43.5	16.6	QP	300.0	95.00	HORIZONTAL
301.600000	31.10	-7.0	46.0	14.9	QP	100.0	214.00	HORIZONTAL
346.220000	31.20	-5.1	46.0	14.8	QP	100.0	289.00	HORIZONTAL
959.260000	35.40	8.0	46.0	10.6	QP	300.0	0.00	HORIZONTAL

Polarization:

Vertical

**MEASUREMENT RESULT: "GM2109106087_red"**

9/10/2021 7:07PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
35.820000	27.20	-11.2	40.0	12.8	QP	100.0	25.00	VERTICAL
51.340000	26.70	-8.8	40.0	13.3	QP	100.0	0.00	VERTICAL
94.020000	35.10	-11.6	43.5	8.4	QP	100.0	299.00	VERTICAL
119.240000	39.20	-12.5	43.5	4.3	QP	100.0	261.00	VERTICAL
194.900000	28.70	-10.3	43.5	14.8	QP	100.0	84.00	VERTICAL
947.620000	35.50	7.9	46.0	10.5	QP	100.0	287.00	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	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4034.78	37.27	29.97	7.41	36.30	38.35	74.00	-35.65	Peak
2	4821.76	45.66	31.40	8.50	35.24	50.32	74.00	-23.68	Peak
3	8002.06	32.50	37.10	10.91	33.31	47.20	74.00	-26.80	Peak
4	9834.41	34.39	39.53	11.65	36.42	49.15	74.00	-24.85	Peak

Type	802.11b		Test channel	CH01		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3943.39	39.59	29.89	7.36	36.53	40.31	74.00	-33.69	Peak
2	4821.76	48.45	31.40	8.50	35.24	53.11	74.00	-20.89	Peak
3	7900.86	33.54	36.80	10.81	33.33	47.82	74.00	-26.18	Peak
4	9834.41	34.09	39.53	11.65	36.42	48.85	74.00	-25.15	Peak

Type	802.11b		Test channel	CH06		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4065.71	38.64	30.00	7.44	36.32	39.76	74.00	-34.24	Peak
2	4871.10	42.46	31.40	8.63	35.16	47.33	74.00	-26.67	Peak
3	8063.40	33.10	37.20	11.08	33.32	48.06	74.00	-25.94	Peak
4	10944.09	33.29	40.60	12.52	36.72	49.69	74.00	-24.31	Peak

Type	802.11b		Test channel	CH06		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4045.06	37.93	29.99	7.42	36.31	39.03	74.00	-34.97	Peak
2	4871.10	44.97	31.40	8.63	35.16	49.84	74.00	-24.16	Peak
3	8063.40	32.43	37.20	11.08	33.32	47.39	74.00	-26.61	Peak
4	11486.41	33.33	40.86	12.73	36.38	50.54	74.00	-23.46	Peak

Type	802.11b		Test channel	CH11		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3893.52	39.58	29.80	7.30	36.74	39.94	74.00	-34.06	Peak
2	4920.96	39.34	31.44	8.73	35.21	44.30	74.00	-29.70	Peak
3	7781.10	32.89	36.56	10.66	33.19	46.92	74.00	-27.08	Peak
4	9228.06	34.30	38.91	11.57	36.04	48.74	74.00	-25.26	Peak

Type	802.11b		Test channel	CH11		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4024.52	37.43	29.95	7.40	36.29	38.49	74.00	-35.51	Peak
2	4920.96	40.54	31.44	8.73	35.21	45.50	74.00	-28.50	Peak
3	8042.90	32.66	37.19	11.02	33.31	47.56	74.00	-26.44	Peak
4	9784.47	34.39	39.60	11.56	36.17	49.38	74.00	-24.62	Peak

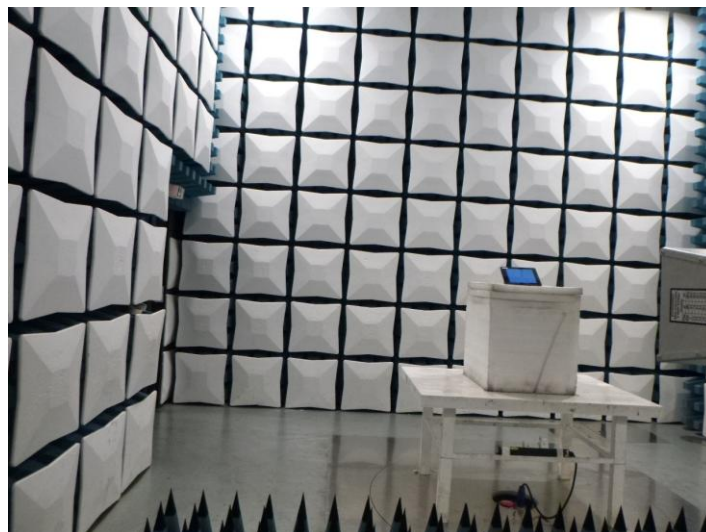
Type	802.11g		Test channel	CH01		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3709.69	39.14	29.42	7.02	37.07	38.51	74.00	-35.49	Peak
2	5138.58	35.65	32.05	8.96	35.45	41.21	74.00	-32.79	Peak
3	8022.46	33.01	37.14	10.95	33.31	47.79	74.00	-26.21	Peak
4	9538.54	34.42	39.02	11.99	36.95	48.48	74.00	-25.52	Peak
Type	802.11g		Test channel	CH01		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3963.52	39.48	29.90	7.37	36.46	40.29	74.00	-33.71	Peak
2	5086.52	35.55	32.20	8.92	35.46	41.21	74.00	-32.79	Peak
3	7820.82	33.52	36.60	10.71	33.23	47.60	74.00	-26.40	Peak
4	11515.68	33.28	40.85	12.74	36.37	50.50	74.00	-23.50	Peak
Type	802.11g		Test channel	CH06		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3943.39	38.84	29.89	7.36	36.53	39.56	74.00	-34.44	Peak
2	5718.40	35.23	31.90	9.55	34.88	41.80	74.00	-32.20	Peak
3	8063.40	32.05	37.20	11.08	33.32	47.01	74.00	-26.99	Peak
4	11399.03	32.81	40.60	12.69	36.43	49.67	74.00	-24.33	Peak
Type	802.11g		Test channel	CH06		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4149.35	37.42	30.00	7.57	36.25	38.74	74.00	-35.26	Peak
2	5732.97	35.26	31.90	9.56	34.85	41.87	74.00	-32.13	Peak
3	7840.75	32.98	36.60	10.73	33.25	47.06	74.00	-26.94	Peak
4	10750.81	33.19	40.20	12.50	36.88	49.01	74.00	-24.99	Peak
Type	802.11g		Test channel	CH11		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3507.65	39.22	29.13	6.80	36.64	38.51	74.00	-35.49	Peak
2	5776.92	36.17	31.95	9.58	34.87	42.83	74.00	-31.17	Peak
3	8022.46	33.00	37.14	10.95	33.31	47.78	74.00	-26.22	Peak
4	9587.23	35.14	39.15	11.96	37.05	49.20	74.00	-24.80	Peak
Type	802.11g		Test channel	CH11		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3963.52	40.65	29.90	7.37	36.46	41.46	74.00	-32.54	Peak
2	4772.91	36.94	31.40	8.38	35.41	41.31	74.00	-32.69	Peak
3	8063.40	32.81	37.20	11.08	33.32	47.77	74.00	-26.23	Peak
4	10453.95	34.44	39.95	12.46	37.16	49.69	74.00	-24.31	Peak

Type	802.11n(HT20)		Test channel		CH01		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3993.90	39.05	29.90	7.38	36.37	39.96	74.00	-34.04	Peak	
2	4809.50	37.24	31.40	8.47	35.28	41.83	74.00	-32.17	Peak	
3	8042.90	32.28	37.19	11.02	33.31	47.18	74.00	-26.82	Peak	
4	10888.51	33.53	40.57	12.52	36.76	49.86	74.00	-24.14	Peak	
Type	802.11n(HT20)		Test channel		CH01		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3367.66	38.92	28.47	6.66	36.92	37.13	74.00	-36.87	Peak	
2	4045.06	38.27	29.99	7.42	36.31	39.37	74.00	-34.63	Peak	
3	8002.06	33.18	37.10	10.91	33.31	47.88	74.00	-26.12	Peak	
4	9809.40	33.86	39.58	11.56	36.19	48.81	74.00	-25.19	Peak	
Type	802.11n(HT20)		Test channel		CH06		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3402.13	38.76	28.61	6.70	36.75	37.32	74.00	-36.68	Peak	
2	5073.59	35.66	32.20	8.90	35.43	41.33	74.00	-32.67	Peak	
3	8063.40	32.44	37.20	11.08	33.32	47.40	74.00	-26.60	Peak	
4	10750.81	33.51	40.20	12.50	36.88	49.33	74.00	-24.67	Peak	
Type	802.11n(HT20)		Test channel		CH06		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3913.39	39.82	29.83	7.34	36.66	40.33	74.00	-33.67	Peak	
2	4883.52	36.79	31.40	8.67	35.18	41.68	74.00	-32.32	Peak	
3	7981.72	32.00	37.03	10.89	33.31	46.61	74.00	-27.39	Peak	
4	9884.60	34.30	39.50	11.84	36.87	48.77	74.00	-25.23	Peak	
Type	802.11n(HT20)		Test channel		CH11		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3913.39	39.38	29.83	7.34	36.66	39.89	74.00	-34.11	Peak	
2	4933.50	44.08	31.47	8.75	35.20	49.10	74.00	-24.90	Peak	
3	8042.90	32.40	37.19	11.02	33.31	47.30	74.00	-26.70	Peak	
4	11341.14	33.80	40.48	12.67	36.46	50.49	74.00	-23.51	Peak	
Type	802.11n(HT20)		Test channel		CH11		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3824.76	38.19	29.70	7.16	36.97	38.08	74.00	-35.92	Peak	
2	4920.96	41.82	31.44	8.73	35.21	46.78	74.00	-27.22	Peak	
3	8063.40	32.23	37.20	11.08	33.32	47.19	74.00	-26.81	Peak	
4	10860.83	33.28	40.48	12.51	36.78	49.49	74.00	-24.51	Peak	

Type	802.11n(HT40)		Test channel	CH03		Polarity	Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1280.07	39.03	25.96	4.00	36.37	32.62	74.00	-41.38	Peak
2	3913.39	38.16	29.83	7.34	36.66	38.67	74.00	-35.33	Peak
3	5177.97	35.88	31.83	8.96	35.43	41.24	74.00	-32.76	Peak
4	8022.46	32.98	37.14	10.95	33.31	47.76	74.00	-26.24	Peak
Type	802.11n(HT40)		Test channel	CH03		Polarity	Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1201.15	39.93	25.61	3.87	36.64	32.77	74.00	-41.23	Peak
2	3516.59	38.54	29.17	6.80	36.68	37.83	74.00	-36.17	Peak
3	5034.99	36.04	32.11	8.86	35.34	41.67	74.00	-32.33	Peak
4	8042.90	32.30	37.19	11.02	33.31	47.20	74.00	-26.80	Peak
Type	802.11n(HT40)		Test channel	CH06		Polarity	Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1908.97	39.48	25.82	4.90	36.99	33.21	74.00	-40.79	Peak
2	4024.52	38.41	29.95	7.40	36.29	39.47	74.00	-34.53	Peak
3	5617.41	36.22	31.90	9.44	35.04	42.52	74.00	-31.48	Peak
4	8042.90	33.22	37.19	11.02	33.31	48.12	74.00	-25.88	Peak
Type	802.11n(HT40)		Test channel	CH06		Polarity	Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1313.08	38.50	26.08	4.05	36.33	32.30	74.00	-41.70	Peak
2	3993.90	38.47	29.90	7.38	36.37	39.38	74.00	-34.62	Peak
3	5689.36	35.23	31.90	9.52	34.93	41.72	74.00	-32.28	Peak
4	8042.90	32.73	37.19	11.02	33.31	47.63	74.00	-26.37	Peak
Type	802.11n(HT40)		Test channel	CH09		Polarity	Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1159.10	40.06	25.44	3.80	36.74	32.56	74.00	-41.44	Peak
2	4045.06	38.60	29.99	7.42	36.31	39.70	74.00	-34.30	Peak
3	5703.86	35.74	31.90	9.54	34.90	42.28	74.00	-31.72	Peak
4	8002.06	32.36	37.10	10.91	33.31	47.06	74.00	-26.94	Peak
Type	802.11n(HT40)		Test channel	CH09		Polarity	Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1680.83	39.05	25.10	4.59	37.14	31.60	74.00	-42.40	Peak
2	3570.71	38.63	29.34	6.87	36.85	37.99	74.00	-36.01	Peak
3	5379.50	36.34	31.62	9.41	35.26	42.11	74.00	-31.89	Peak
4	8063.40	32.05	37.20	11.08	33.32	47.01	74.00	-26.99	Peak

6. TEST SETUP PHOTOS

Radiated Emission



AC Conducted Emission



7. EXTERANAL AND INTERNAL PHOTOS

Reference to the test report No. : CHTEW21100145.

8. APPENDIX REPORT