



TEST REPORT

For WiFi-2.4GHz Band

Report No. : **CHTEW23070083** Report Verification: 

Project No..... : **SHT2303134202EW**

FCC ID..... : **2A6LY-0004**

Applicant's name..... : **Resvent Medical Technology Co., Ltd.**

Address..... : **BC601, BC602, Gaoxinqi Factory, District 67, Xingdong Community, Xin'an Street, Bao'an District, 518100 Shenzhen, PEOPLE'S REPUBLIC OF CHINA**

Product Name : **RXiBreeze PAP System**

Trade Mark : **-**

Model No. : **RXiBreeze III APAP Pro**

Listed Model(s) : **RXiBreeze III CPAP, RXiBreeze III CPAP Pro, RXiBreeze III APAP**

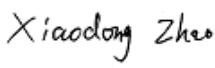
Standard : **FCC CFR Title 47 Part 15 Subpart C § 15.247**

Date of receipt of test sample..... : **Jul. 10, 2023**

Date of testing..... : **Jul. 11, 2023- Jul. 24, 2023**

Date of issue..... : **Jul. 25, 2023**

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

Compiled by		
(Position+Printed name+Signature):	File administrator Xiaodong Zhao	
Supervised by		
(Position+Printed name+Signature):	Project Engineer Xiaodong Zhao	
Approved by		
(Position+Printed name+Signature):	RF Manager Hans Hu	

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

Address..... : **1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China**

Shenzhen Huatongwei International Inspection Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Huatongwei International Inspection Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Huatongwei International Inspection Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. The test report merely correspond to the test sample.

Contents

<u>1.</u>	<u>TEST STANDARDS AND REPORT VERSION</u>	<u>3</u>
1.1.	Test Standards	3
1.2.	Report version	3
<u>2.</u>	<u>TEST DESCRIPTION</u>	<u>4</u>
<u>3.</u>	<u>SUMMARY</u>	<u>5</u>
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	Radio Specification Description	5
3.4.	Testing Laboratory Information	6
<u>4.</u>	<u>TEST CONFIGURATION</u>	<u>7</u>
4.1.	Test frequency list	7
4.2.	Test mode	7
4.3.	Test sample information	8
4.4.	Support unit used in test configuration and system	8
4.5.	Testing environmental condition	8
4.6.	Statement of the measurement uncertainty	9
4.7.	Equipment Used during the Test	10
<u>5.</u>	<u>TEST CONDITIONS AND RESULTS</u>	<u>12</u>
5.1.	Antenna Requirement	12
5.2.	AC Conducted Emission	13
5.3.	Peak Output Power	15
5.4.	Power Spectral Density	16
5.5.	6dB bandwidth	17
5.6.	99% Occupied Bandwidth	18
5.7.	Duty Cycle	19
5.8.	Conducted Band edge and Spurious Emission	20
5.9.	Radiated Band edge Emission	22
5.10.	Radiated Spurious Emission	27
<u>6.</u>	<u>TEST SETUP PHOTOS</u>	<u>35</u>
<u>7.</u>	<u>EXTERNAL AND INTERNAL PHOTOS</u>	<u>37</u>
7.1.	External Photos	37
7.2.	Internal Photos	39
<u>8.</u>	<u>APPENDIX REPORT</u>	<u>40</u>

1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- [FCC CFR Title 47 Part 15 Subpart C § 15.247](#): Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- [ANSI C63.10:2020](#): 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	2023-07-25	Original

2. TEST DESCRIPTION

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

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:	Resvent Medical Technology Co., Ltd.
Address:	BC601, BC602, Gaoxinqi Factory, District 67, Xingdong Community,Xin'an Street, Bao'an District, 518100 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Manufacturer:	Resvent Medical Technology Co., Ltd.
Address:	BC601, BC602, Gaoxinqi Factory, District 67, Xingdong Community,Xin'an Street, Bao'an District, 518100 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Factory:	Resvent Medical Technology Co., Ltd.
Address:	BC601, BC602, Gaoxinqi Factory, District 67, Xingdong Community,Xin'an Street, Bao'an District, 518100 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

3.2. Product Description

Main unit information:	
Product Name:	RXiBreeze PAP System
Trade Mark:	-
Model No.:	RXiBreeze III APAP Pro
Listed Model(s):	RXiBreeze III CPAP, RXiBreeze III CPAP Pro, RXiBreeze III APAP
Power supply:	DC 24.0V from adapter
Hardware version:	1.0
Software version:	V01.00.00
Accessory unit information:	
Adapter information:	Model: LXCP61(II)-024300 Input:100-240Va.c., 50/60Hz 1.5Amax. Output:24.0Vd.c., 3.0A

3.3. Radio Specification Description

Support type:	☒ 802.11b	☒ 802.11g	☒ 802.11n
Support bandwidth:	☒ 20MHz	☒ 40MHz	
Modulation:	802.11b:	DBPSK, DQPSK, BPSK, QPSK	
	802.11g/n:	BPSK, QPSK, 16QAM, 64QAM	
Operation frequency:	802.11b/g/n(HT20):	2412MHz~2462MHz	
	802.11n(HT40)	2422MHz~2452MHz	
Channel number:	802.11b/g/n(HT20):	11	
	802.11n(HT40)	7	
Channel separation:	5MHz		

Antenna technology:	☒ SISO ☐ MIMO
Antenna type:	FPC
Antenna gain:	2.96dBi

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	
Contact 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/g/n(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. 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
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.

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 sample information

Test item	HTW sample no.
RF Conducted test items	Please refer to the description in the appendix report
RF Radiated test items	YPHT23031342002
EMI test items	YPHT23031342002

Note:

RF Conducted test items: Peak Output Power, Power Spectral Density, 6dB Bandwidth, 99% Occupied Bandwidth, Duty cycle, Conducted Band Edge and Spurious Emission

RF Radiated test items: Radiated Band Edge Emission, Radiated Spurious Emission

EMI test items: AC Conducted Emission

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.
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. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	AC Conducted Emission	3.21dB
2	Peak Output Power	1.07
3	Power Spectral Density	1.07
4	6dB Bandwidth	0.002%
5	99% Occupied Bandwidth	0.002%
6	Duty cycle	-
7	Conducted Band Edge and Spurious Emission	1.68dB
8	Radiated Band Edge Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz
9	Radiated Spurious Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz

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

● RF Conducted test item							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2022/08/25	2023/08/24
●	Signal & Spectrum Analyzer	R&S	HTWE0262	FSW26	103440	2022/08/25	2023/08/24
●	Vector signal generator	R&S	HTWE0244	SMBV100A	260790	2023/05/23	2024/05/22
●	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A

● Radiated emission- 9kHz~30MHz							
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	2023/4/6	2026/4/5
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2022/8/30	2023/8/29
●	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/4/6	2024/4/5
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

● Radiated emission- 30MHz~1GHz							
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	2023/4/6	2026/4/5
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2022/8/30	2023/8/29
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2023/2/22	2026/2/21
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	/	2023/5/25	2024/5/24
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

● Radiated emission- Above 1GHz							
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	C11121	2023/4/17	2026/4/16
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2022/8/25	2023/8/24
●	Spectrum Analyzer	R&S	HTWE0385	N9020A	MY54486658	2022/8/25	2023/8/24
●	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2023/2/14	2026/2/13
●	Pre-Amplifier	CD	HTWE0071	PAP-0102	12004	2023/5/25	2024/5/24
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2023/5/25	2024/5/24
●	Test Software	Audix	N/A	E3	N/A	N/A	N/A

● Conducted Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2022/8/30	2023/8/29
●	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2022/8/29	2023/8/28
●	Protection Network	SCHWARZBECK	HTWE0567	VTSD9561FN	00899	2022/8/29	2023/8/28
●	ISN	FCC	HTWE0148	FCC-TLISN-T2-02	20371	2022/8/29	2023/8/28
●	ISN	FCC	HTWE0150	FCC-TLISN-T8-02	20375	2022/8/29	2023/8/28
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

REQUIREMENT

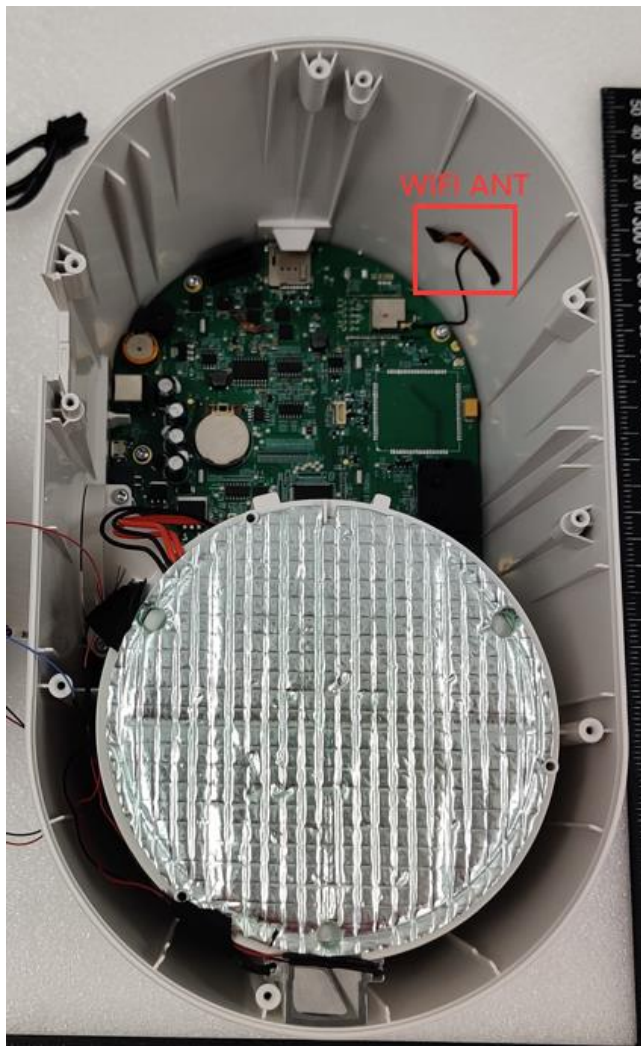
FCC CFR Title 47 Part 15 Subpart C Section 15.203:

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.

TEST RESULT

☒ Passed ☐ Not Applicable

The antenna type is a FPC antenna, please refer to the below antenna photo.



5.2. AC Conducted Emission

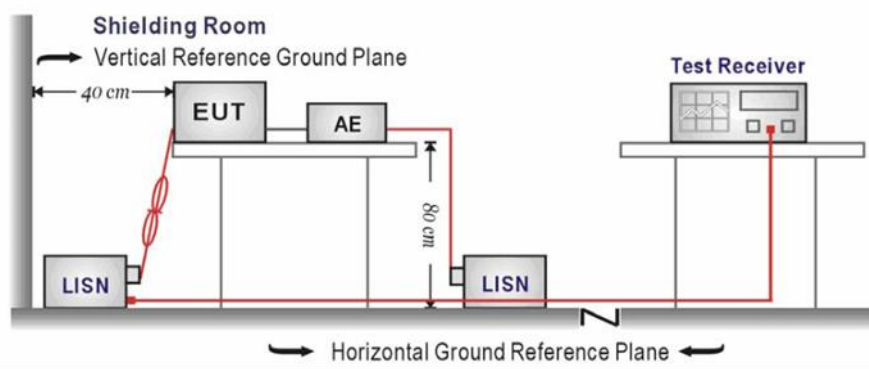
LIMIT

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

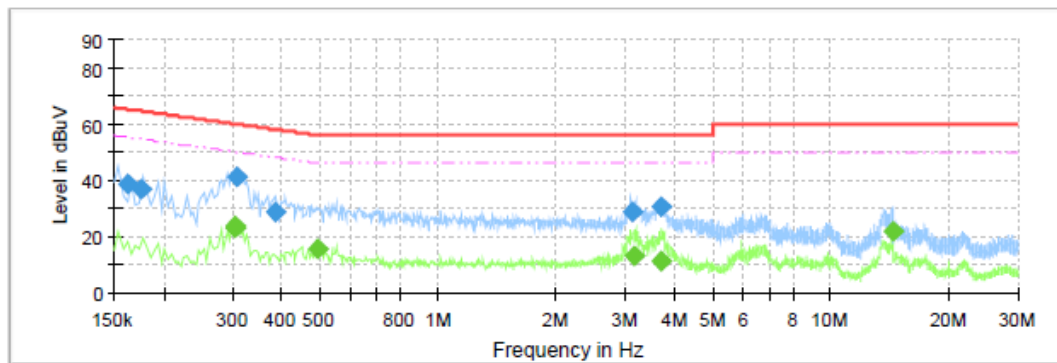
Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

Test Line:

L

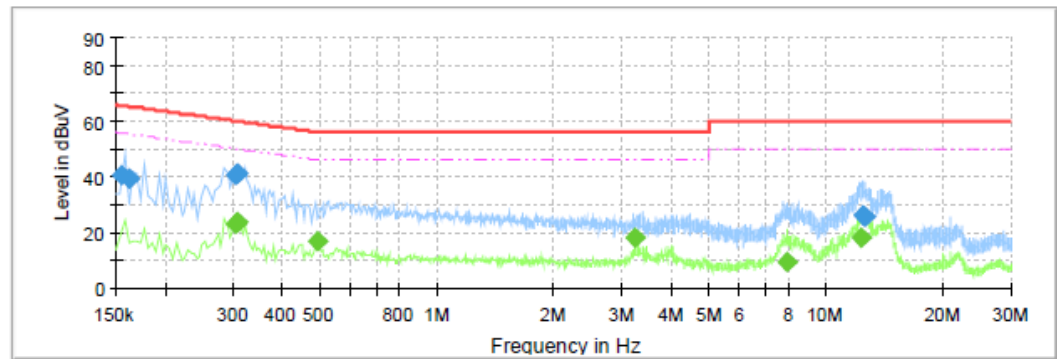


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.162000	38.98	---	65.36	26.38	L1	10.0
0.175500	36.58	---	64.70	28.12	L1	10.0
0.303500	---	23.26	50.15	26.89	L1	10.0
0.304500	---	23.54	50.12	26.58	L1	10.0
0.307500	41.01	---	60.04	19.02	L1	10.0
0.387500	28.85	---	58.12	29.27	L1	10.0
0.495500	---	15.31	46.08	30.76	L1	10.0
3.115500	29.04	---	56.00	26.96	L1	10.0
3.179500	---	12.90	46.00	33.10	L1	10.0
3.711500	30.47	---	56.00	25.53	L1	10.0
3.719500	---	11.54	46.00	34.46	L1	10.0
14.415500	---	21.84	50.00	28.16	L1	10.4

Test Line:

N



Final Result

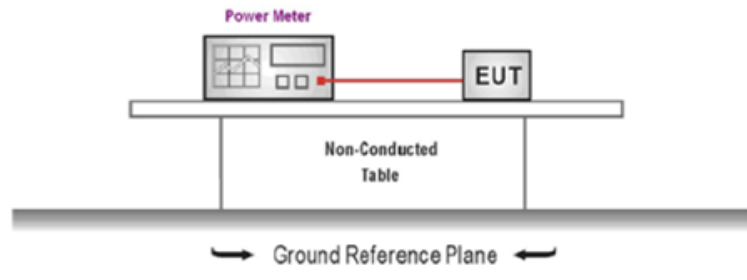
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.155500	40.44	---	65.70	25.26	N	10.0
0.162000	39.13	---	65.36	26.23	N	10.0
0.303500	---	23.40	50.15	26.74	N	10.0
0.303500	40.75	---	60.15	19.40	N	10.0
0.307500	41.20	---	60.04	18.84	N	10.0
0.307500	---	23.75	50.04	26.29	N	10.0
0.495500	---	17.10	46.08	28.98	N	10.0
3.235500	---	18.02	46.00	27.98	N	10.0
7.947500	---	9.50	50.00	40.50	N	10.1
12.323500	---	17.84	50.00	32.16	N	10.3
12.423500	26.13	---	60.00	33.87	N	10.3
12.583500	25.62	---	60.00	34.38	N	10.3

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

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

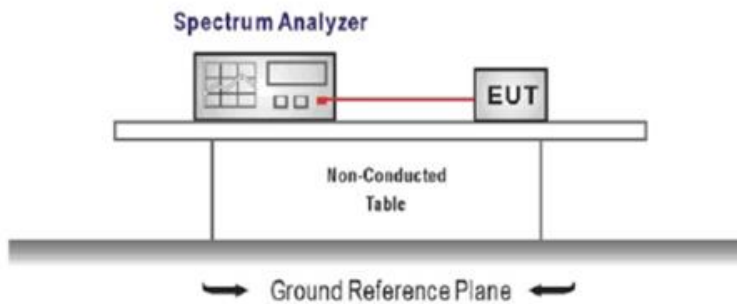
5.4. Power Spectral Density

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

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

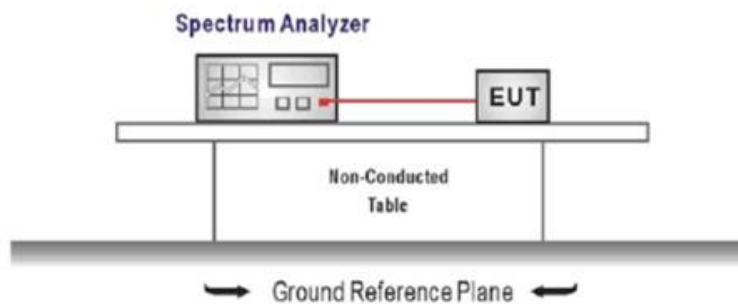
5.5. 6dB bandwidth

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

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

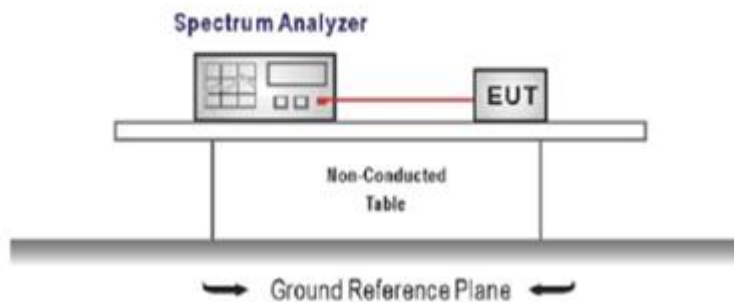
Refer to the appendix report

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

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

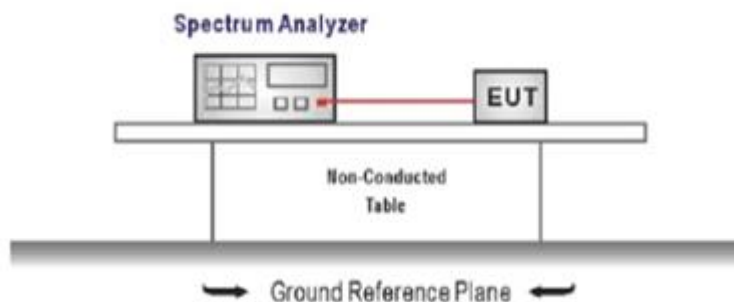
Refer to the appendix report

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

Refer to the clause 4.2

TEST DATA

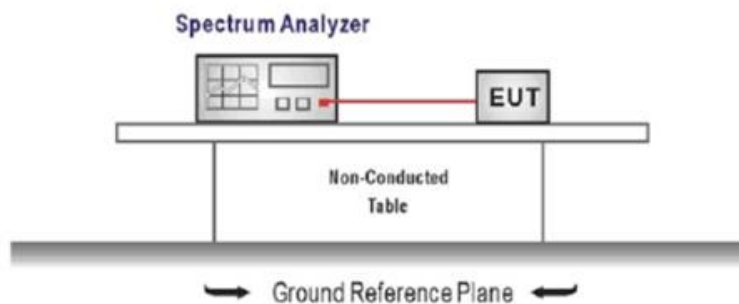
Refer to the appendix report

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

Refer to the clause 4.2

TEST RESULT

☒ **Passed** ☐ **Not Applicable**

TEST DATA

Refer to 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 5.7 duty cycle.

TEST MODE

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	41.02	27.86	4.01	37.56	20.00	55.33	74.00	-18.67	Peak
2	2390.01	41.81	27.54	4.31	37.45	20.00	56.21	74.00	-17.79	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	2310.00	33.72	27.86	4.01	37.56	20.00	48.03	54.00	-5.97	Average
2	2390.01	33.61	27.54	4.31	37.45	20.00	48.01	54.00	-5.99	Average
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	41.29	27.86	4.01	37.56	20.00	55.60	74.00	-18.40	Peak
2	2390.01	40.24	27.54	4.31	37.45	20.00	54.64	74.00	-19.36	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	2310.00	34.41	27.86	4.01	37.56	20.00	48.72	54.00	-5.28	Average
2	2390.01	34.26	27.54	4.31	37.45	20.00	48.66	54.00	-5.34	Average

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	41.42	27.33	4.18	37.26	20.00	55.67	74.00	-18.33	Peak
2	2500.00	41.47	27.30	4.19	37.26	20.00	55.70	74.00	-18.30	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	2483.49	34.39	27.33	4.18	37.26	20.00	48.64	54.00	-5.36	Average
2	2500.00	33.51	27.30	4.19	37.26	20.00	47.74	54.00	-6.26	Average
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	40.76	27.33	4.18	37.26	20.00	55.01	74.00	-18.99	Peak
2	2500.00	40.53	27.30	4.19	37.26	20.00	54.76	74.00	-19.24	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	2483.49	34.15	27.33	4.18	37.26	20.00	48.40	54.00	-5.60	Average
2	2500.00	33.60	27.30	4.19	37.26	20.00	47.83	54.00	-6.17	Average

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	41.24	27.86	4.01	37.56	20.00	55.55	74.00	-18.45	Peak
2	2390.01	40.69	27.54	4.31	37.45	20.00	55.09	74.00	-18.91	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	2310.00	35.52	27.86	4.01	37.56	20.00	49.83	54.00	-4.17	Average
2	2390.01	33.36	27.54	4.31	37.45	20.00	47.76	54.00	-6.24	Average
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	41.07	27.86	4.01	37.56	20.00	55.38	74.00	-18.62	Peak
2	2390.01	40.52	27.54	4.31	37.45	20.00	54.92	74.00	-19.08	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	2310.00	33.89	27.86	4.01	37.56	20.00	48.20	54.00	-5.80	Average
2	2390.01	34.20	27.54	4.31	37.45	20.00	48.60	54.00	-5.40	Average

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	41.85	27.33	4.18	37.26	20.00	56.10	74.00	-17.90	Peak
2	2500.00	41.30	27.30	4.19	37.26	20.00	55.53	74.00	-18.47	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	2483.49	34.30	27.33	4.18	37.26	20.00	48.55	54.00	-5.45	Average
2	2500.00	33.53	27.30	4.19	37.26	20.00	47.76	54.00	-6.24	Average
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	40.22	27.33	4.18	37.26	20.00	54.47	74.00	-19.53	Peak
2	2500.00	39.52	27.30	4.19	37.26	20.00	53.75	74.00	-20.25	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	2483.49	34.51	27.33	4.18	37.26	20.00	48.76	54.00	-5.24	Average
2	2500.00	33.71	27.30	4.19	37.26	20.00	47.94	54.00	-6.06	Average

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	40.82	27.86	4.01	37.56	20.00	55.13	74.00	-18.87	Peak	
2	2390.01	41.18	27.54	4.31	37.45	20.00	55.58	74.00	-18.42	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	2310.00	33.75	27.86	4.01	37.56	20.00	48.06	54.00	-5.94	Average	
2	2390.01	34.05	27.54	4.31	37.45	20.00	48.45	54.00	-5.55	Average	

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	39.75	27.86	4.01	37.56	20.00	54.06	74.00	-19.94	Peak	
2	2390.01	40.18	27.54	4.31	37.45	20.00	54.58	74.00	-19.42	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	2310.00	33.35	27.86	4.01	37.56	20.00	47.66	54.00	-6.34	Average	
2	2390.01	34.36	27.54	4.31	37.45	20.00	48.76	54.00	-5.24	Average	

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	42.20	27.33	4.18	37.26	20.00	56.45	74.00	-17.55	Peak	
2	2500.00	40.82	27.30	4.19	37.26	20.00	55.05	74.00	-18.95	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	2483.49	33.86	27.33	4.18	37.26	20.00	48.11	54.00	-5.89	Average	
2	2500.00	33.13	27.30	4.19	37.26	20.00	47.36	54.00	-6.64	Average	

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	40.18	27.33	4.18	37.26	20.00	54.43	74.00	-19.57	Peak	
2	2500.00	40.02	27.30	4.19	37.26	20.00	54.25	74.00	-19.75	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	2483.49	33.19	27.33	4.18	37.26	20.00	47.44	54.00	-6.56	Average	
2	2500.00	33.46	27.30	4.19	37.26	20.00	47.69	54.00	-6.31	Average	

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	39.79	27.86	4.01	37.56	20.00	54.10	74.00	-19.90	Peak
2	2389.99	40.50	27.54	4.31	37.45	20.00	54.90	74.00	-19.10	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	2310.00	29.50	27.86	4.01	37.56	20.00	43.81	54.00	-10.19	Average
2	2389.99	29.76	27.54	4.31	37.45	20.00	44.16	54.00	-9.84	Average
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	40.82	27.86	4.01	37.56	20.00	55.13	74.00	-18.87	Peak
2	2389.99	39.80	27.54	4.31	37.45	20.00	54.20	74.00	-19.80	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	2310.00	29.51	27.86	4.01	37.56	20.00	43.82	54.00	-10.18	Average
2	2389.99	29.51	27.54	4.31	37.45	20.00	43.91	54.00	-10.09	Average

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	41.21	27.33	4.18	37.26	20.00	55.46	74.00	-18.54	Peak
2	2500.00	42.07	27.30	4.19	37.26	20.00	56.30	74.00	-17.70	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	30.36	27.33	4.18	37.26	20.00	44.61	54.00	-9.39	Average
2	2500.00	30.11	27.30	4.19	37.26	20.00	44.34	54.00	-9.66	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	40.20	27.33	4.18	37.26	20.00	54.45	74.00	-19.55	Peak
2	2500.00	40.22	27.30	4.19	37.26	20.00	54.45	74.00	-19.55	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	29.58	27.33	4.18	37.26	20.00	43.83	54.00	-10.17	Average
2	2500.00	29.33	27.30	4.19	37.26	20.00	43.56	54.00	-10.44	Average

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

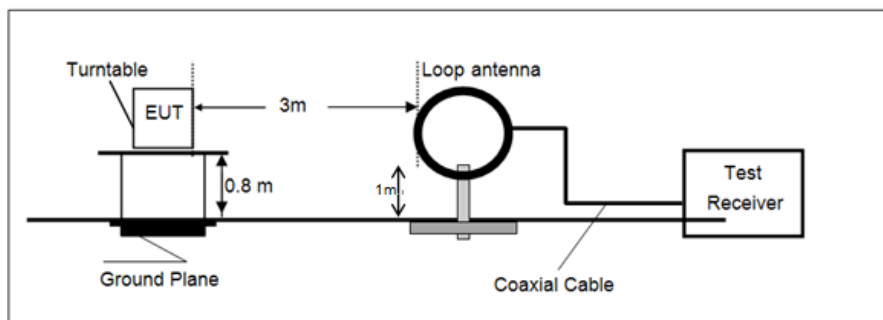
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + $40 \cdot \log(300/3)$ = Limit dBuV/m @300m +80,

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

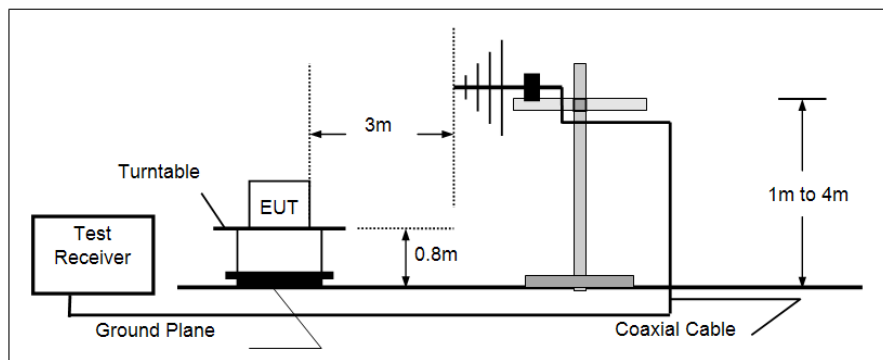
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

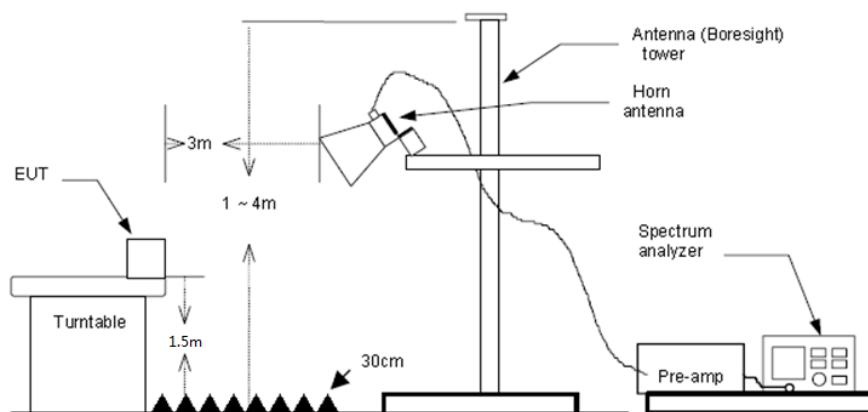
- 9 kHz ~ 30 MHz



- 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 5.7 duty cycle.

TEST MODE

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.

For 9 kHz ~ 30 MHz

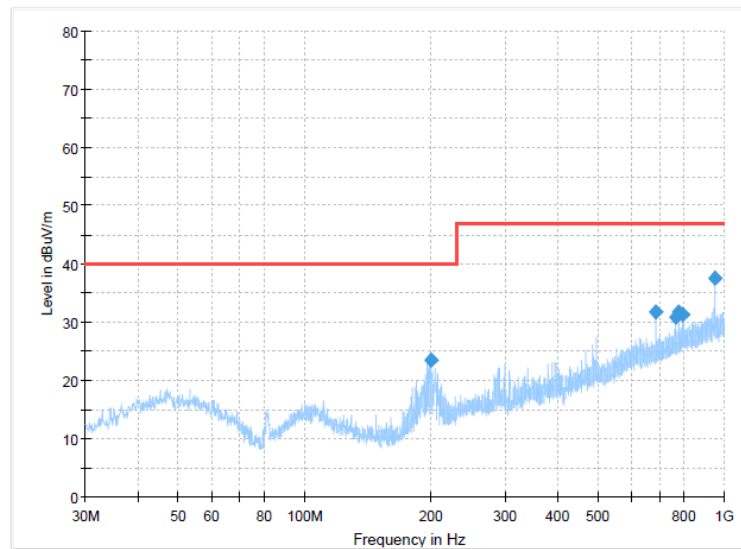
The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

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:

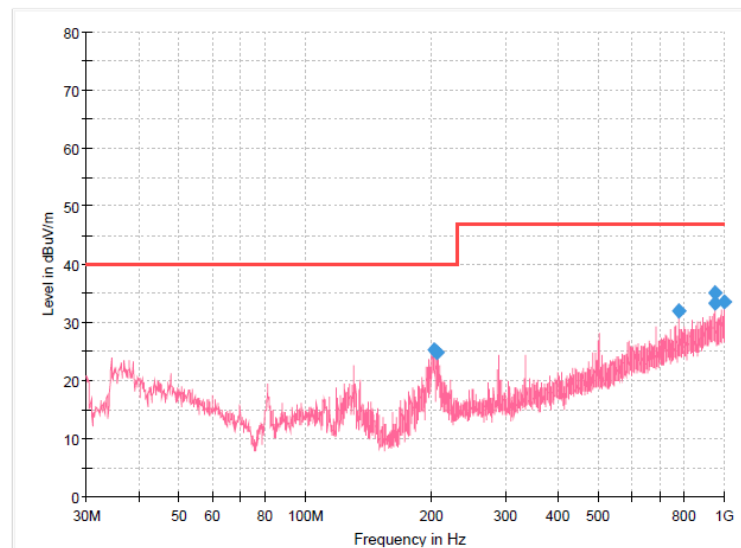
Horizontal

**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
199.992500	23.53	40.00	16.47	100.0	H	244.0	-10.6
687.538750	31.78	47.00	15.22	100.0	H	0.0	2.1
764.047500	30.73	47.00	16.27	100.0	H	101.0	3.8
776.900000	31.65	47.00	15.35	100.0	H	195.0	4.1
796.178750	31.28	47.00	15.72	100.0	H	86.0	4.7
948.590000	37.62	47.00	9.38	100.0	H	298.0	7.1

Polarization:

Vertical

**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
202.902500	25.16	40.00	14.84	100.0	V	117.0	-10.8
206.661250	24.90	40.00	15.10	100.0	V	176.0	-11.0
776.536250	32.04	47.00	14.96	100.0	V	0.0	4.1
946.771250	33.28	47.00	13.72	100.0	V	5.0	7.1
948.468750	35.17	47.00	11.83	100.0	V	239.0	7.1
999.878750	33.44	47.00	13.56	100.0	V	185.0	7.9

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	3216.84	44.46	28.80	4.88	36.90	41.24	74.00	-32.76	Peak
2	4821.76	43.36	31.26	6.00	35.24	45.38	74.00	-28.62	Peak
3	5971.29	41.20	32.34	6.81	35.04	45.31	74.00	-28.69	Peak
4	10427.37	38.24	39.93	9.72	37.21	50.68	74.00	-23.32	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	4004.08	44.69	29.81	5.63	36.34	43.79	74.00	-30.21	Peak
2	4821.76	44.86	31.26	6.00	35.24	46.88	74.00	-27.12	Peak
3	6001.77	45.10	32.40	6.84	35.08	49.26	74.00	-24.74	Peak
4	9734.78	38.33	39.30	9.43	36.41	50.65	74.00	-23.35	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	3480.97	41.12	28.89	5.00	36.59	38.42	74.00	-35.58	Peak
2	4594.10	39.02	30.88	5.95	36.11	39.74	74.00	-34.26	Peak
3	7961.43	36.01	36.92	7.98	33.32	47.59	74.00	-26.41	Peak
4	10453.95	37.54	39.95	9.73	37.16	50.06	74.00	-23.94	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	3249.76	44.17	28.60	4.78	36.87	40.68	74.00	-33.32	Peak
2	4883.52	40.46	31.20	6.21	35.18	42.69	74.00	-31.31	Peak
3	8042.90	36.36	37.00	8.19	33.31	48.24	74.00	-25.76	Peak
4	9784.47	37.93	39.30	9.48	36.17	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	3445.70	40.27	28.67	4.96	36.58	37.32	74.00	-36.68	Peak
2	4920.96	45.31	31.20	6.06	35.21	47.36	74.00	-26.64	Peak
3	8083.96	35.50	37.00	8.13	33.32	47.31	74.00	-26.69	Peak
4	10453.95	36.98	39.95	9.73	37.16	49.50	74.00	-24.50	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	3516.59	39.76	29.07	5.14	36.68	37.29	74.00	-36.71	Peak
2	4920.96	44.72	31.20	6.06	35.21	46.77	74.00	-27.23	Peak
3	8002.06	35.05	37.00	8.00	33.31	46.74	74.00	-27.26	Peak
4	10427.37	36.36	39.93	9.72	37.21	48.80	74.00	-25.20	Peak

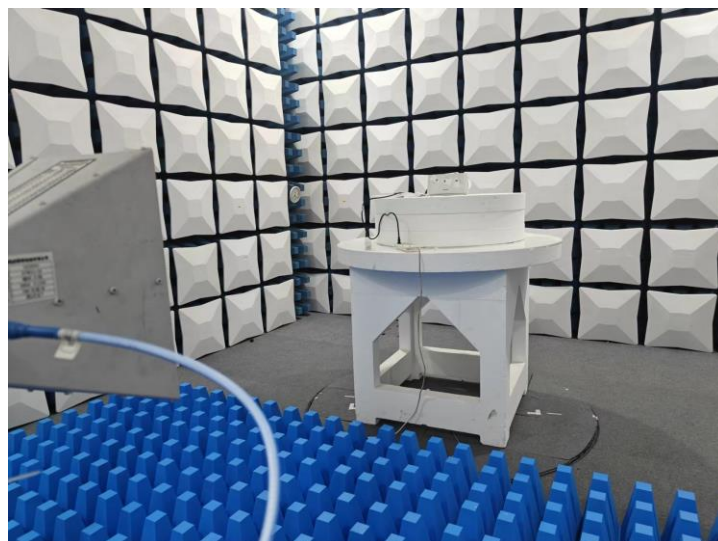
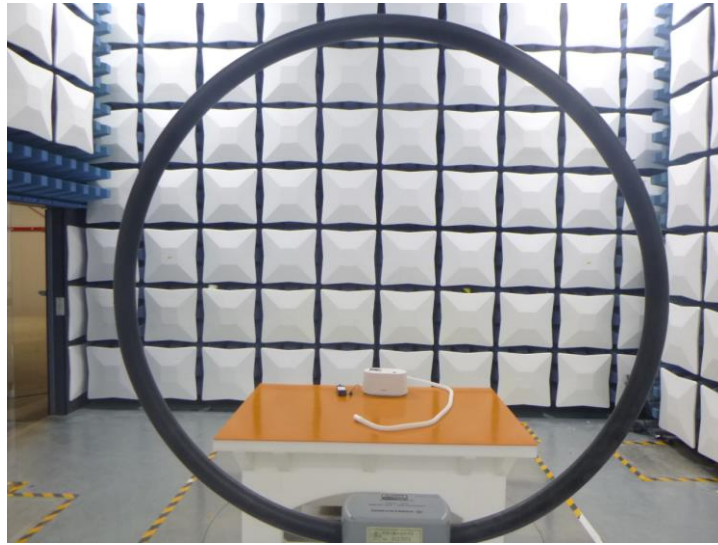
Type	802.11g	Test channel	CH01	Polarity	Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3983.75	44.99	29.77	5.60	36.40	43.96	74.00	-30.04	Peak
2	4821.76	43.58	31.26	6.00	35.24	45.60	74.00	-28.40	Peak
3	6001.77	46.18	32.40	6.84	35.08	50.34	74.00	-23.66	Peak
4	9784.47	37.28	39.30	9.48	36.17	49.89	74.00	-24.11	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	3993.90	48.54	29.79	5.62	36.37	47.58	74.00	-26.42	Peak
2	4821.76	43.52	31.26	6.00	35.24	45.54	74.00	-28.46	Peak
3	8083.96	36.46	37.00	8.13	33.32	48.27	74.00	-25.73	Peak
4	9809.40	38.04	39.32	9.50	36.19	50.67	74.00	-23.33	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	3249.76	44.35	28.60	4.78	36.87	40.86	74.00	-33.14	Peak
2	4785.08	40.35	31.27	5.98	35.36	42.24	74.00	-31.76	Peak
3	8063.40	36.36	37.00	8.19	33.32	48.23	74.00	-25.77	Peak
4	9784.47	37.49	39.30	9.48	36.17	50.10	74.00	-23.90	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	3249.76	44.73	28.60	4.78	36.87	41.24	74.00	-32.76	Peak
2	4871.10	39.72	31.20	6.30	35.16	42.06	74.00	-31.94	Peak
3	8083.96	36.48	37.00	8.13	33.32	48.29	74.00	-25.71	Peak
4	10427.37	38.48	39.93	9.72	37.21	50.92	74.00	-23.08	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	4086.46	39.97	29.90	5.48	36.31	39.04	74.00	-34.96	Peak
2	5689.36	36.67	31.76	6.58	34.93	40.08	74.00	-33.92	Peak
3	7941.19	34.78	36.85	7.97	33.32	46.28	74.00	-27.72	Peak
4	10348.05	36.88	39.74	9.68	37.34	48.96	74.00	-25.04	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	4014.29	39.85	29.83	5.59	36.31	38.96	74.00	-35.04	Peak
2	5177.97	36.25	31.73	6.32	35.43	38.87	74.00	-35.13	Peak
3	8042.90	35.27	37.00	8.19	33.31	47.15	74.00	-26.85	Peak
4	10453.95	35.77	39.95	9.73	37.16	48.29	74.00	-25.71	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	48.02	29.79	5.62	36.37	47.06	74.00	-26.94	Peak
2	4821.76	44.12	31.26	6.00	35.24	46.14	74.00	-27.86	Peak
3	8063.40	37.00	37.00	8.19	33.32	48.87	74.00	-25.13	Peak
4	10427.37	37.31	39.93	9.72	37.21	49.75	74.00	-24.25	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	3216.84	46.71	28.80	4.88	36.90	43.49	74.00	-30.51	Peak
2	3993.90	45.62	29.79	5.62	36.37	44.66	74.00	-29.34	Peak
3	4821.76	43.43	31.26	6.00	35.24	45.45	74.00	-28.55	Peak
4	10453.95	37.78	39.95	9.73	37.16	50.30	74.00	-23.70	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	3249.76	44.40	28.60	4.78	36.87	40.91	74.00	-33.09	Peak
2	4883.52	40.94	31.20	6.21	35.18	43.17	74.00	-30.83	Peak
3	8063.40	36.36	37.00	8.19	33.32	48.23	74.00	-25.77	Peak
4	11574.46	35.74	40.35	10.41	36.38	50.12	74.00	-23.88	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	3983.75	43.76	29.77	5.60	36.40	42.73	74.00	-31.27	Peak
2	6001.77	44.66	32.40	6.84	35.08	48.82	74.00	-25.18	Peak
3	8083.96	36.44	37.00	8.13	33.32	48.25	74.00	-25.75	Peak
4	9759.59	38.43	39.30	9.46	36.29	50.90	74.00	-23.10	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	3283.02	44.08	28.40	4.83	36.84	40.47	74.00	-33.53	Peak
2	4920.96	40.87	31.20	6.06	35.21	42.92	74.00	-31.08	Peak
3	7981.72	36.16	36.96	7.99	33.31	47.80	74.00	-26.20	Peak
4	9859.47	37.68	39.38	9.50	36.65	49.91	74.00	-24.09	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	3983.75	49.34	29.77	5.60	36.40	48.31	74.00	-25.69	Peak
2	6001.77	43.07	32.40	6.84	35.08	47.23	74.00	-26.77	Peak
3	8042.90	36.06	37.00	8.19	33.31	47.94	74.00	-26.06	Peak
4	10295.50	38.51	39.59	9.65	37.42	50.33	74.00	-23.67	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	3233.26	44.57	28.70	4.83	36.88	41.22	74.00	-32.78	Peak
2	4871.10	39.44	31.20	6.30	35.16	41.78	74.00	-32.22	Peak
3	8022.46	36.72	37.00	8.07	33.31	48.48	74.00	-25.52	Peak
4	9834.41	37.39	39.37	9.50	36.42	49.84	74.00	-24.16	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	2995.54	46.38	28.50	4.75	37.47	42.16	74.00	-31.84	Peak
2	3993.90	44.34	29.79	5.62	36.37	43.38	74.00	-30.62	Peak
3	7880.77	36.78	36.52	7.91	33.31	47.90	74.00	-26.10	Peak
4	10723.47	36.97	40.07	9.87	36.90	50.01	74.00	-23.99	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	4014.29	40.54	29.83	5.59	36.31	39.65	74.00	-34.35	Peak
2	5747.59	37.30	31.90	6.68	34.85	41.03	74.00	-32.97	Peak
3	8398.59	34.89	36.69	8.54	33.68	46.44	74.00	-27.56	Peak
4	10453.95	35.98	39.95	9.73	37.16	48.50	74.00	-25.50	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	3993.90	40.29	29.79	5.62	36.37	39.33	74.00	-34.67	Peak
2	5022.19	38.24	31.53	6.10	35.30	40.57	74.00	-33.43	Peak
3	7981.72	35.16	36.96	7.99	33.31	46.80	74.00	-27.20	Peak
4	10453.95	37.55	39.95	9.73	37.16	50.07	74.00	-23.93	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	3266.35	45.21	28.50	4.81	36.85	41.67	74.00	-32.33	Peak
2	4908.44	40.59	31.20	6.07	35.22	42.64	74.00	-31.36	Peak
3	8002.06	36.43	37.00	8.00	33.31	48.12	74.00	-25.88	Peak
4	10269.32	38.22	39.51	9.64	37.47	49.90	74.00	-24.10	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	3266.35	45.06	28.50	4.81	36.85	41.52	74.00	-32.48	Peak
2	5910.80	37.70	32.30	6.82	35.05	41.77	74.00	-32.23	Peak
3	8002.06	36.55	37.00	8.00	33.31	48.24	74.00	-25.76	Peak
4	9859.47	38.58	39.38	9.50	36.65	50.81	74.00	-23.19	Peak

6. TEST SETUP PHOTOS

Radiated Emission



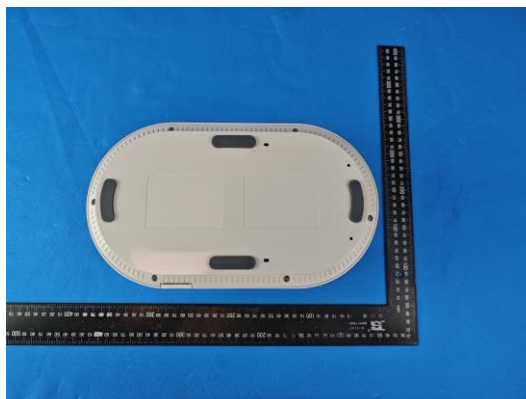
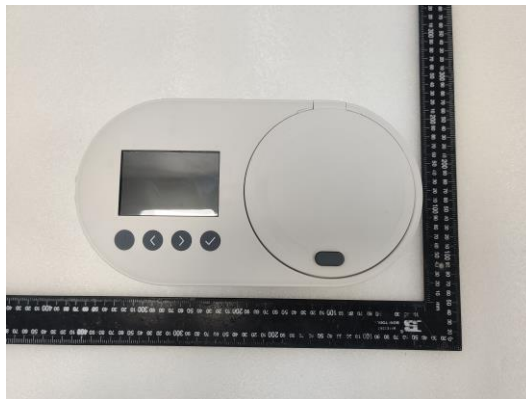


AC Conducted Emission



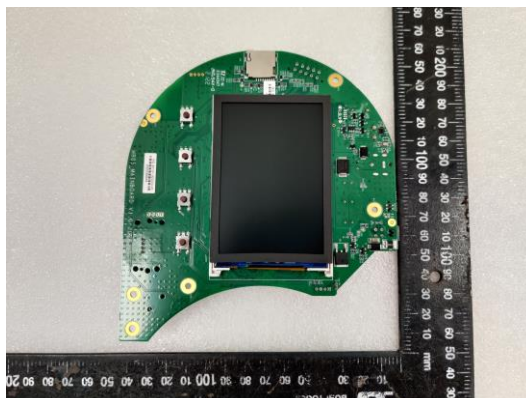
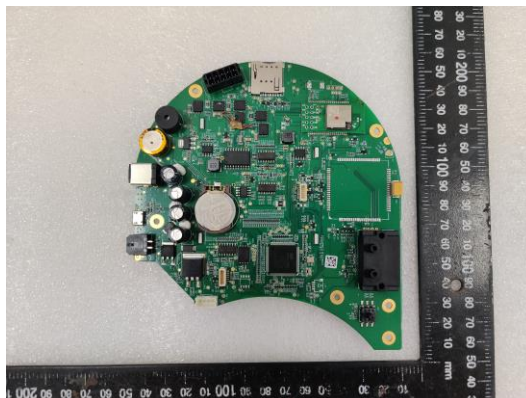
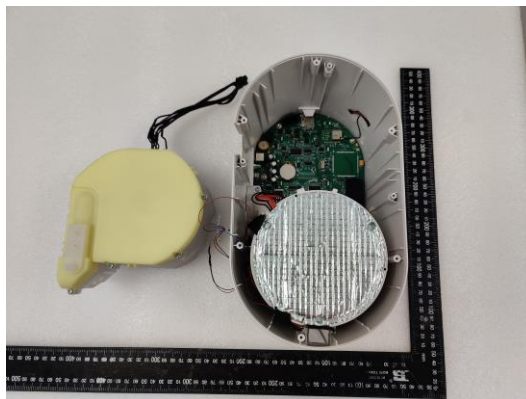
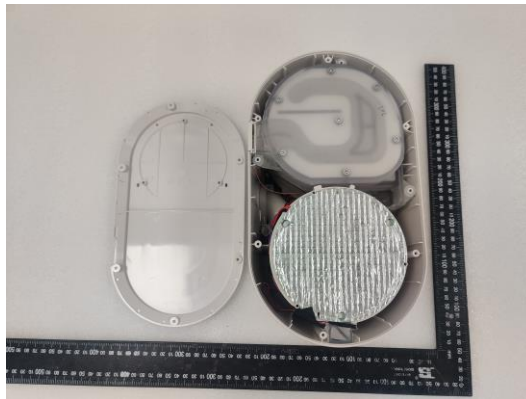
7. EXTERNAL AND INTERNAL PHOTOS

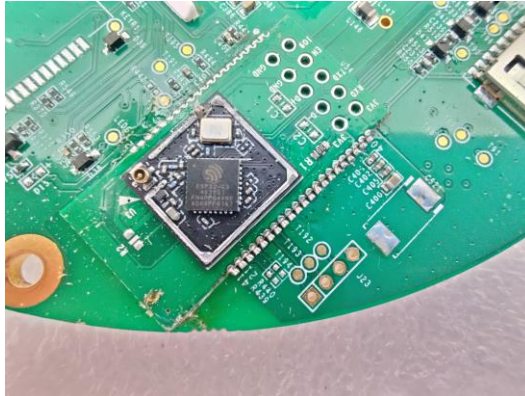
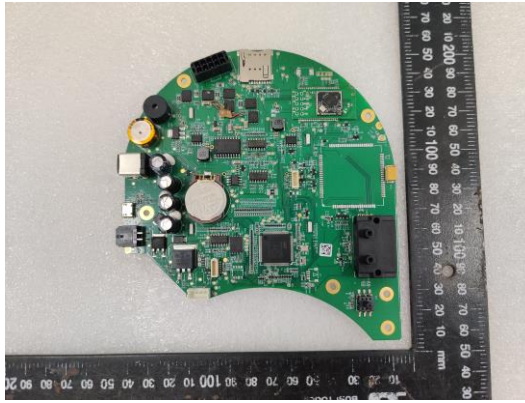
7.1. External Photos





7.2. Internal Photos





8. APPENDIX REPORT

APPENDIX REPORT

Project No.	SHT2303134202EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT23031342002	Model No.	RXiBreezeIII APAP Pro
Start test date	2023-07-13	Finish date	2023-07-13
Temperature	24.8℃	Humidity	44%
Test Engineer	Xiaoqin Li	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

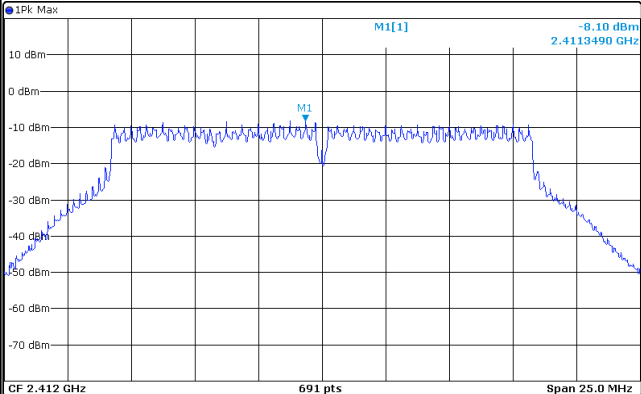
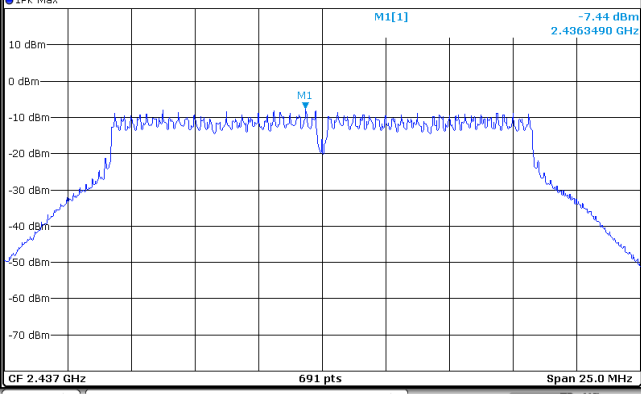
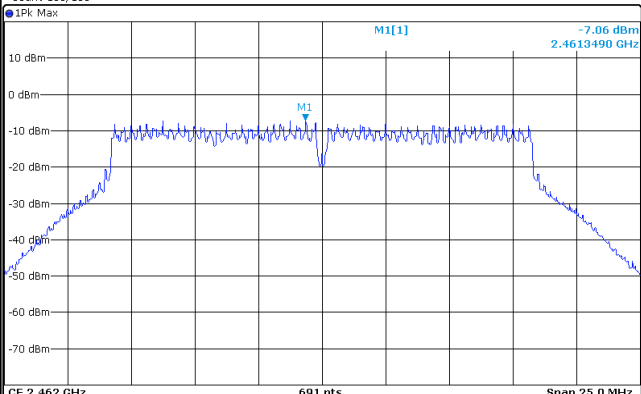
Appendix A: Conducted Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	15.98	13.80	≤ 30.00	Pass
	06	16.10	14.02		
	11	16.64	14.48		
802.11g	01	15.99	12.43	≤ 30.00	Pass
	06	16.20	12.54		
	11	16.82	13.18		
802.11n (HT20)	01	15.87	12.26	≤ 30.00	Pass
	06	16.10	12.60		
	11	16.72	13.10		
802.11n(HT40)	03	16.18	12.44	≤ 30.00	Pass
	06	16.33	12.68		
	09	16.28	12.60		

Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-3.27	≤8.00	Pass
	06	-3.15		
	11	-2.48		
802.11g	01	-8.10	≤8.00	Pass
	06	-7.44		
	11	-7.06		
802.11n(HT20)	01	-8.65	≤8.00	Pass
	06	-8.26		
	11	-7.81		
802.11n(HT40)	03	-11.03	≤8.00	Pass
	06	-10.63		
	09	-10.57		

Type:		802.11 b
CH01	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 126.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] -3.27 dBm 2.4126950 GHz M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.412 GHz 691 pts Span 16.0 MHz Date: 13 JUL 2023 09:28:24	
CH06	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 126.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] -3.15 dBm 2.4374630 GHz M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.437 GHz 691 pts Span 16.0 MHz Date: 13 JUL 2023 09:31:08	
CH11	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 126.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] -2.48 dBm 2.4624860 GHz M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.462 GHz 691 pts Span 16.0 MHz Date: 13 JUL 2023 09:32:53	

Type:		802.11 g
CH01	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 189.6 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1 M1[1] -8.10 dBm 2.4113490 GHz  CF 2.412 GHz 691 pts Span 25.0 MHz Date: 13 JUL 2023 09:34:49	
CH06	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 189.6 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1 M1[1] -7.44 dBm 2.4363490 GHz  CF 2.437 GHz 691 pts Span 25.0 MHz Date: 13 JUL 2023 09:36:45	
CH11	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 189.6 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1 M1[1] -7.06 dBm 2.4613490 GHz  CF 2.462 GHz 691 pts Span 25.0 MHz Date: 13 JUL 2023 09:39:15	

Type:		802.11n(HT20)
CH01	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 189.6 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -8.65 dBm 2.4113490 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.412 GHz 691 pts Span 25.0 MHz Date: 13_JUL_2023 09:41:24	
CH06	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 189.6 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -8.26 dBm 2.4363490 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.437 GHz 691 pts Span 25.0 MHz Date: 13_JUL_2023 09:43:24	
CH11	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 189.6 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -7.81 dBm 2.4613490 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.462 GHz 691 pts Span 25.0 MHz Date: 13_JUL_2023 09:44:59	

Type:		802.11n(HT40)
CH03	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB SWT 442.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -11.03 dBm 2.4213630 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.422 GHz 691 pts Span 55.0 MHz Date: 13 JUL 2023 09:46:47	
CH06	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB SWT 442.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -10.63 dBm 2.4357260 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.437 GHz 691 pts Span 55.0 MHz Date: 13 JUL 2023 09:49:51	
CH09	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB SWT 442.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -10.57 dBm 2.4507260 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.452 GHz 691 pts Span 55.0 MHz Date: 13 JUL 2023 09:51:25	

Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.93	≥0.5	Pass
	06	9.30		
	11	8.61		
802.11g	01	16.38	≥0.5	Pass
	06	16.62		
	11	16.59		
802.11n(HT20)	01	17.64	≥0.5	Pass
	06	17.88		
	11	17.64		
802.11n(HT40)	03	32.82	≥0.5	Pass
	06	32.70		
	09	32.10		

Type:		802.11 b																											
CH01	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M1 M2 D1 D3 -7.78 dBm -0.31 dBm -6.310 dBm 0.68 dB 2.4069000 GHz 2.4129900 GHz 2.4129900 GHz 2.4129900 GHz CF 2.412 GHz 1001 pts Span 30.0 MHz Marker <table><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><tr><td>M1</td><td></td><td>1</td><td>2.4069 GHz</td><td>-7.78 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.41299 GHz</td><td>-0.31 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>9.93 MHz</td><td>0.68 dB</td><td></td><td></td></tr></table> Date: 13 JUL 2023 09:27:40	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.4069 GHz	-7.78 dBm			M2		1	2.41299 GHz	-0.31 dBm			D3	M1	1	9.93 MHz	0.68 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.4069 GHz	-7.78 dBm																									
M2		1	2.41299 GHz	-0.31 dBm																									
D3	M1	1	9.93 MHz	0.68 dB																									
CH06	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M1 M2 D1 D3 -5.44 dBm 0.63 dBm -5.366 dBm -0.12 dB 2.4319300 GHz 2.4364600 GHz 2.4364600 GHz 2.4364600 GHz CF 2.437 GHz 1001 pts Span 30.0 MHz Marker <table><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><tr><td>M1</td><td></td><td>1</td><td>2.43193 GHz</td><td>-5.44 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.43646 GHz</td><td>0.63 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>9.3 MHz</td><td>-0.12 dB</td><td></td><td></td></tr></table> Date: 13 JUL 2023 09:30:50	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.43193 GHz	-5.44 dBm			M2		1	2.43646 GHz	0.63 dBm			D3	M1	1	9.3 MHz	-0.12 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.43193 GHz	-5.44 dBm																									
M2		1	2.43646 GHz	0.63 dBm																									
D3	M1	1	9.3 MHz	-0.12 dB																									
CH11	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M1 M2 D1 D3 -4.51 dBm 1.97 dBm -4.031 dBm 0.00 dB 2.4579200 GHz 2.4614600 GHz 2.4579200 GHz 2.4614600 GHz CF 2.462 GHz 1001 pts Span 30.0 MHz Marker <table><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><tr><td>M1</td><td></td><td>1</td><td>2.45792 GHz</td><td>-4.51 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.46146 GHz</td><td>1.97 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>8.61 MHz</td><td>0.00 dB</td><td></td><td></td></tr></table> Date: 13 JUL 2023 09:32:07	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.45792 GHz	-4.51 dBm			M2		1	2.46146 GHz	1.97 dBm			D3	M1	1	8.61 MHz	0.00 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.45792 GHz	-4.51 dBm																									
M2		1	2.46146 GHz	1.97 dBm																									
D3	M1	1	8.61 MHz	0.00 dB																									

Type:		802.11 g																												
CH01	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 D1 D3 -9.72 dBm -3.50 dBm -9.497 dBm 0.04 dB 2.4037800 GHz 2.4057000 GHz CF 2.412 GHz 1001 pts Span 30.0 MHz Marker <table><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><tr><td>M1</td><td></td><td>1</td><td>2.40378 GHz</td><td>-9.72 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.4057 GHz</td><td>-3.50 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>16.38 MHz</td><td>0.04 dB</td><td></td><td></td></tr></table> Date: 13 JUL 2023 09:34:07		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40378 GHz	-9.72 dBm			M2		1	2.4057 GHz	-3.50 dBm			D3	M1	1	16.38 MHz	0.04 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	2.40378 GHz	-9.72 dBm																										
M2		1	2.4057 GHz	-3.50 dBm																										
D3	M1	1	16.38 MHz	0.04 dB																										
CH06	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 D1 D3 -13.22 dBm -5.88 dBm -11.885 dBm 0.87 dB 2.4286600 GHz 2.4379900 GHz CF 2.437 GHz 1001 pts Span 30.0 MHz Marker <table><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><tr><td>M1</td><td></td><td>1</td><td>2.42866 GHz</td><td>-13.22 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.43799 GHz</td><td>-5.88 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>16.62 MHz</td><td>0.87 dB</td><td></td><td></td></tr></table> Date: 13 JUL 2023 09:36:07		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.42866 GHz	-13.22 dBm			M2		1	2.43799 GHz	-5.88 dBm			D3	M1	1	16.62 MHz	0.87 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	2.42866 GHz	-13.22 dBm																										
M2		1	2.43799 GHz	-5.88 dBm																										
D3	M1	1	16.62 MHz	0.87 dB																										
CH11	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 D1 D3 -10.21 dBm -4.16 dBm -10.163 dBm -1.48 dB 2.4536900 GHz 2.4669500 GHz CF 2.462 GHz 1001 pts Span 30.0 MHz Marker <table><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><tr><td>M1</td><td></td><td>1</td><td>2.45369 GHz</td><td>-10.21 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.46695 GHz</td><td>-4.16 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>16.59 MHz</td><td>-1.48 dB</td><td></td><td></td></tr></table> Date: 13 JUL 2023 09:38:28		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.45369 GHz	-10.21 dBm			M2		1	2.46695 GHz	-4.16 dBm			D3	M1	1	16.59 MHz	-1.48 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	2.45369 GHz	-10.21 dBm																										
M2		1	2.46695 GHz	-4.16 dBm																										
D3	M1	1	16.59 MHz	-1.48 dB																										

Appendix report page: 11 of 35

Appendix report page: 12 of 35

Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	13.04	-	Pass
	06	13.01		
	11	13.04		
802.11g	01	17.26	-	Pass
	06	16.99		
	11	17.26		
802.11n(HT20)	01	18.10	-	Pass
	06	18.04		
	11	18.28		
802.11n(HT40)	03	35.07	-	Pass
	06	35.07		
	09	35.07		

Type:		802.11 b
CH01	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View 4.78 dBm 2.4105010 GHz 13.036963037 MHz M1[1] Occ Bw T1 T2 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.412 GHz 1001 pts Span 30.0 MHz Date: 13 JUL 2023 09:27:52	
CH06	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View 5.09 dBm 2.4354720 GHz 13.006993007 MHz M1[1] Occ Bw T1 T2 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.437 GHz 1001 pts Span 30.0 MHz Date: 13 JUL 2023 09:30:57	
CH11	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View 5.20 dBm 2.4605010 GHz 13.036963037 MHz M1[1] Occ Bw T1 T2 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.462 GHz 1001 pts Span 30.0 MHz Date: 13 JUL 2023 09:32:15	

Type:		802.11 g
CH01	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View M1[1] -1.38 dBm 2.4098720 GHz Occ Bw 17.262737263 MHz T1 T2 M1 CF 2.412 GHz 1001 pts Span 30.0 MHz Date: 13 JUL 2023 09:34:15	
CH06	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View M1[1] -0.79 dBm 2.4411060 GHz Occ Bw 16.993006993 MHz T1 T2 M1 CF 2.437 GHz 1001 pts Span 30.0 MHz Date: 13 JUL 2023 09:36:14	
CH11	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View M1[1] -0.16 dBm 2.4634090 GHz Occ Bw 17.262737263 MHz T1 T2 M1 CF 2.462 GHz 1001 pts Span 30.0 MHz Date: 13 JUL 2023 09:38:36	

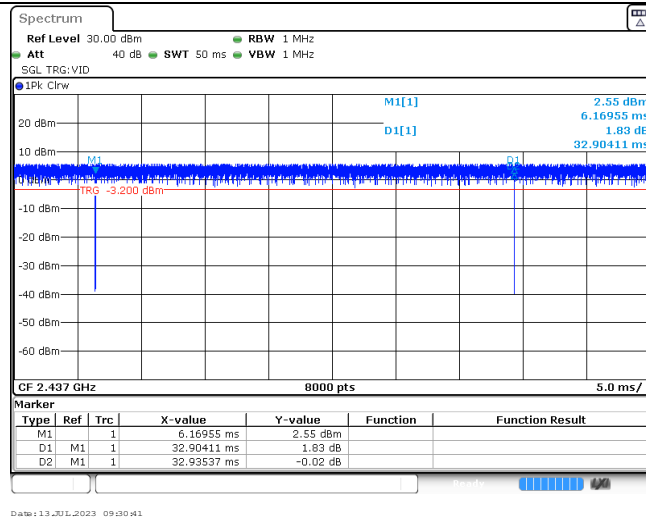
Type:		802.11n(HT20)
CH01	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500 1Pk View	

Type:		802.11n(HT40)
CH03	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 1 ms RBW 500 kHz VBW 2 MHz Mode Auto Sweep 1Pk View MI[1] Occ Bw M1 -0.91 dBm 2.4254170 GHz 35.064935065 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.422 GHz 1001 pts Span 60.0 MHz Date: 13 JUL 2023 09:46:08	
CH06	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 1 ms RBW 500 kHz VBW 2 MHz Mode Auto Sweep 1Pk View MI[1] Occ Bw M1 -0.64 dBm 2.4404770 GHz 35.064935065 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.437 GHz 1001 pts Span 60.0 MHz Date: 13 JUL 2023 09:49:07	
CH09	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 1 ms RBW 500 kHz VBW 2 MHz Mode Auto Sweep 1Pk View MI[1] Occ Bw M1 -0.72 dBm 2.4554770 GHz 35.064935065 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.452 GHz 1001 pts Span 60.0 MHz Date: 13 JUL 2023 09:50:54	

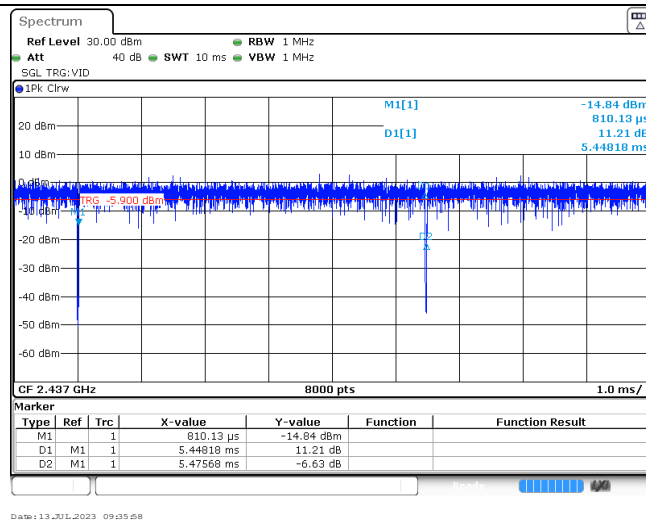
Appendix E: Duty Cycle

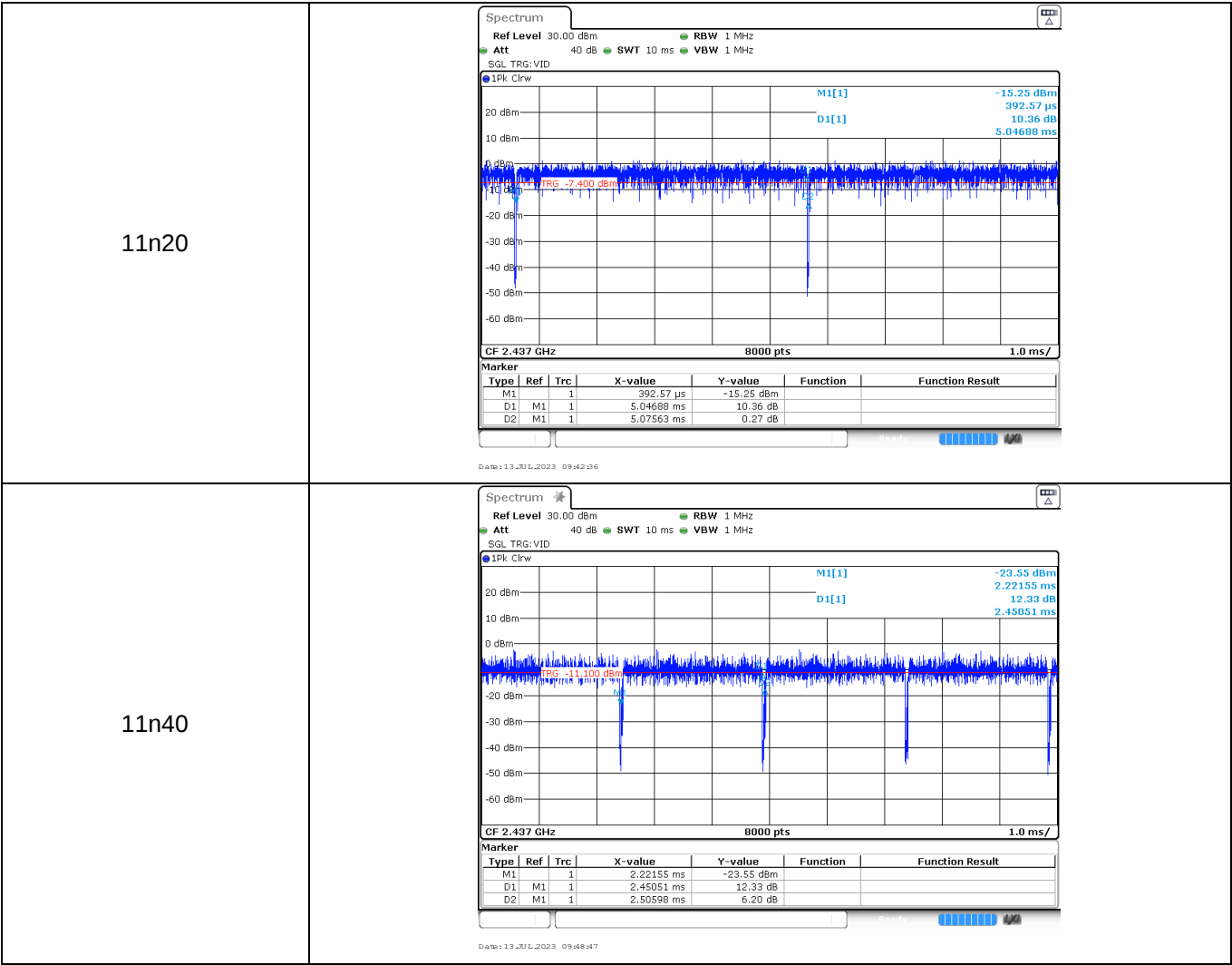
Modulation Type	Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
11b	2437	32.90	32.94	99.9%	0.03
11g	2437	5.45	5.48	99.5%	0.18
11n20	2437	5.05	5.08	99.4%	0.20
11n40	2437	2.45	2.51	97.6%	0.41

11b



11g





Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Bandedge	Type:	802.11 b																																										
CH01	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M4 0.26 dBm 2.411550 GHz -48.90 dBm 2.400000 GHz D1 -19.740 dBm Start 2.31 GHz 691 pts Stop 2.422 GHz Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.41155 GHz</td><td>0.26 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-48.90 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-57.32 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-57.77 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399925 GHz</td><td>-49.21 dBm</td><td></td><td></td></tr></table>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.41155 GHz	0.26 dBm			M2	1		2.4 GHz	-48.90 dBm			M3	1		2.39 GHz	-57.32 dBm			M4	1		2.31 GHz	-57.77 dBm			M5	1		2.399925 GHz	-49.21 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.41155 GHz	0.26 dBm																																									
M2	1		2.4 GHz	-48.90 dBm																																									
M3	1		2.39 GHz	-57.32 dBm																																									
M4	1		2.31 GHz	-57.77 dBm																																									
M5	1		2.399925 GHz	-49.21 dBm																																									
CH11	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz SWT 113.8 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2[1] M3 M4 M5 1.31 dBm 2.4609260 GHz -56.94 dBm 2.4835000 GHz D1 -18.690 dBm Start 2.452 GHz 691 pts Stop 2.5 GHz Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.460926 GHz</td><td>1.31 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-56.94 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-57.07 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4885913 GHz</td><td>-55.09 dBm</td><td></td><td></td></tr></table>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.460926 GHz	1.31 dBm			M2	1		2.4835 GHz	-56.94 dBm			M3	1		2.5 GHz	-57.07 dBm			M4	1		2.4885913 GHz	-55.09 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.460926 GHz	1.31 dBm																																									
M2	1		2.4835 GHz	-56.94 dBm																																									
M3	1		2.5 GHz	-57.07 dBm																																									
M4	1		2.4885913 GHz	-55.09 dBm																																									

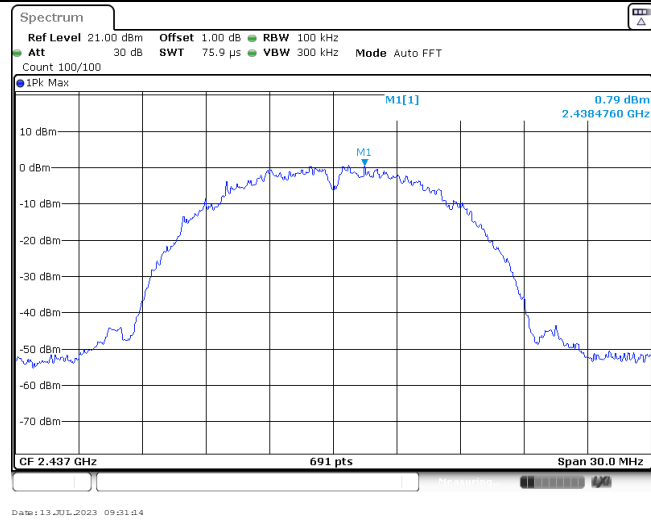
Test Item:	Bandedge	Type:	802.11 g																																								
CH01	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 -6.29 dBm 2.411380 GHz -41.92 dBm 2.400000 GHz D1 -26.290 dBm Start 2.31 GHz 691 pts Stop 2.422 GHz Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.41138 GHz</td><td>-6.29 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-41.92 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-55.46 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-58.53 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399925 GHz</td><td>-42.31 dBm</td><td></td><td></td></tr></table> Date: 13 JUL 2023 09:34:58	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.41138 GHz	-6.29 dBm			M2	1		2.4 GHz	-41.92 dBm			M3	1		2.39 GHz	-55.46 dBm			M4	1		2.31 GHz	-58.53 dBm			M5	1		2.399925 GHz	-42.31 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																					
M1	1		2.41138 GHz	-6.29 dBm																																							
M2	1		2.4 GHz	-41.92 dBm																																							
M3	1		2.39 GHz	-55.46 dBm																																							
M4	1		2.31 GHz	-58.53 dBm																																							
M5	1		2.399925 GHz	-42.31 dBm																																							
CH11	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz SWT 113.8 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 -3.34 dBm 2.4694700 GHz -53.44 dBm 2.4835000 GHz D1 -23.340 dBm Start 2.452 GHz 691 pts Stop 2.5 GHz Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.46947 GHz</td><td>-3.34 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-53.44 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-57.95 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4835826 GHz</td><td>-52.84 dBm</td><td></td><td></td></tr></table> Date: 13 JUL 2023 09:39:24	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.46947 GHz	-3.34 dBm			M2	1		2.4835 GHz	-53.44 dBm			M3	1		2.5 GHz	-57.95 dBm			M4	1		2.4835826 GHz	-52.84 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																					
M1	1		2.46947 GHz	-3.34 dBm																																							
M2	1		2.4835 GHz	-53.44 dBm																																							
M3	1		2.5 GHz	-57.95 dBm																																							
M4	1		2.4835826 GHz	-52.84 dBm																																							

Test Item:	Bandedge	Type:	802.11 n(HT20)																																										
CH01	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M1 M2 M3 -4.67 dBm 2.404410 GHz -40.99 dBm 2.400000 GHz -56.03 dBm D1 -24.670 dBm Start 2.31 GHz 691 pts Stop 2.422 GHz Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.40441 GHz</td><td>-4.67 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-40.99 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-56.03 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-57.71 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399925 GHz</td><td>-42.83 dBm</td><td></td><td></td></tr></table> Date: 13 JUL 2023 09:41:03			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40441 GHz	-4.67 dBm			M2	1		2.4 GHz	-40.99 dBm			M3	1		2.39 GHz	-56.03 dBm			M4	1		2.31 GHz	-57.71 dBm			M5	1		2.399925 GHz	-42.83 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.40441 GHz	-4.67 dBm																																									
M2	1		2.4 GHz	-40.99 dBm																																									
M3	1		2.39 GHz	-56.03 dBm																																									
M4	1		2.31 GHz	-57.71 dBm																																									
M5	1		2.399925 GHz	-42.83 dBm																																									
CH11	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz SWT 113.8 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M1 M2 M3 -3.43 dBm 2.4557160 GHz -52.02 dBm 2.4835000 GHz -56.92 dBm D1 -23.430 dBm Start 2.452 GHz 691 pts Stop 2.5 GHz Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.455716 GHz</td><td>-3.43 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-52.02 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-56.92 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4835826 GHz</td><td>-52.00 dBm</td><td></td><td></td></tr></table> Date: 13 JUL 2023 09:45:08			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.455716 GHz	-3.43 dBm			M2	1		2.4835 GHz	-52.02 dBm			M3	1		2.5 GHz	-56.92 dBm			M4	1		2.4835826 GHz	-52.00 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.455716 GHz	-3.43 dBm																																									
M2	1		2.4835 GHz	-52.02 dBm																																									
M3	1		2.5 GHz	-56.92 dBm																																									
M4	1		2.4835826 GHz	-52.00 dBm																																									

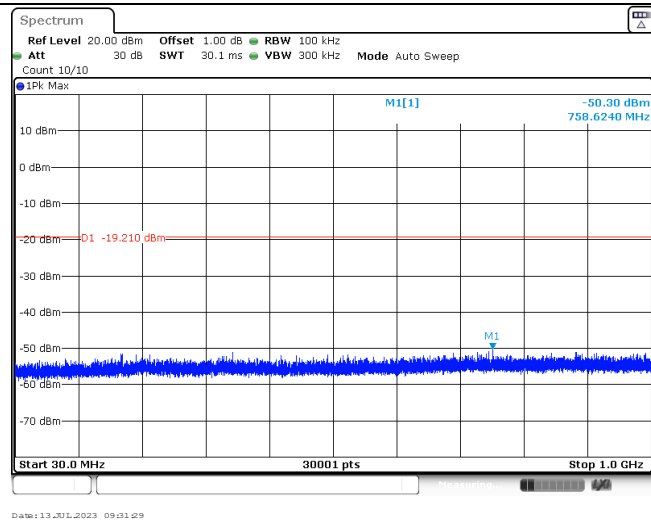
Test Item:	Bandedge	Type:	802.11 n(HT40)																																										
CH03	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz SWT 303.4 μs VBW 300 kHz Mode Auto FFT Count 266/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M4 M5 -6.69 dBm 2.413250 GHz -47.38 dBm 2.400000 GHz D1 -26.690 dBm Start 2.31 GHz 691 pts Stop 2.442 GHz Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.41325 GHz</td><td>-6.69 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-47.38 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-55.76 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-57.19 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39953 GHz</td><td>-46.07 dBm</td><td></td><td></td></tr></table> Date: 13 JUL 2023 09:46:56			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.41325 GHz	-6.69 dBm			M2	1		2.4 GHz	-47.38 dBm			M3	1		2.39 GHz	-55.76 dBm			M4	1		2.31 GHz	-57.19 dBm			M5	1		2.39953 GHz	-46.07 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.41325 GHz	-6.69 dBm																																									
M2	1		2.4 GHz	-47.38 dBm																																									
M3	1		2.39 GHz	-55.76 dBm																																									
M4	1		2.31 GHz	-57.19 dBm																																									
M5	1		2.39953 GHz	-46.07 dBm																																									
CH09	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M4 -5.73 dBm 2.4557660 GHz -50.70 dBm 2.4835000 GHz D1 -25.730 dBm Start 2.432 GHz 691 pts Stop 2.5 GHz Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.455766 GHz</td><td>-5.73 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-50.70 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-52.05 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4858087 GHz</td><td>-48.77 dBm</td><td></td><td></td></tr></table> Date: 13 JUL 2023 09:51:04			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.455766 GHz	-5.73 dBm			M2	1		2.4835 GHz	-50.70 dBm			M3	1		2.5 GHz	-52.05 dBm			M4	1		2.4858087 GHz	-48.77 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.455766 GHz	-5.73 dBm																																									
M2	1		2.4835 GHz	-50.70 dBm																																									
M3	1		2.5 GHz	-52.05 dBm																																									
M4	1		2.4858087 GHz	-48.77 dBm																																									

Test Item:	SE	Type:	802.11b
CH01 Reference level	Spectrum Ref Level 21.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk Max 0.31 dBm 2.4124780 GHz M1[1] M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.412 GHz 691 pts Span 30.0 MHz Date: 13 JUL 2023 09:28:41		
CH01 30MHz~1000MHz	Spectrum Ref Level 20.00 dBm Att 30 dB Count 10/10 Offset 1.00 dB SWT 30.1 ms RBW 100 kHz VBW 300 kHz Mode Auto Sweep 1Pk Max -49.90 dBm 662.5640 MHz M1[1] M1 -20 dBm -19.690 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 13 JUL 2023 09:28:56		
CH01 1GHz~26GHz	Spectrum Ref Level 20.00 dBm Att 30 dB Count 10/10 Offset 1.00 dB SWT 250 ms RBW 100 kHz VBW 300 kHz Mode Auto Sweep 1Pk Max -42.97 dBm 16.836667 GHz M1[1] M1 -20 dBm -19.690 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 13 JUL 2023 09:29:12		

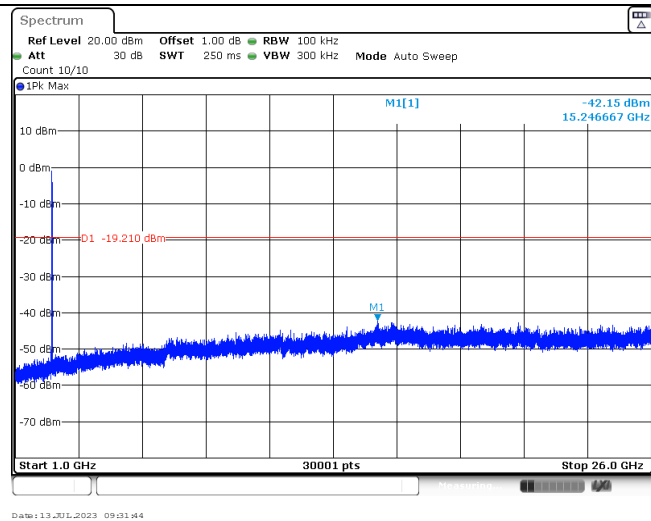
CH06
Reference level



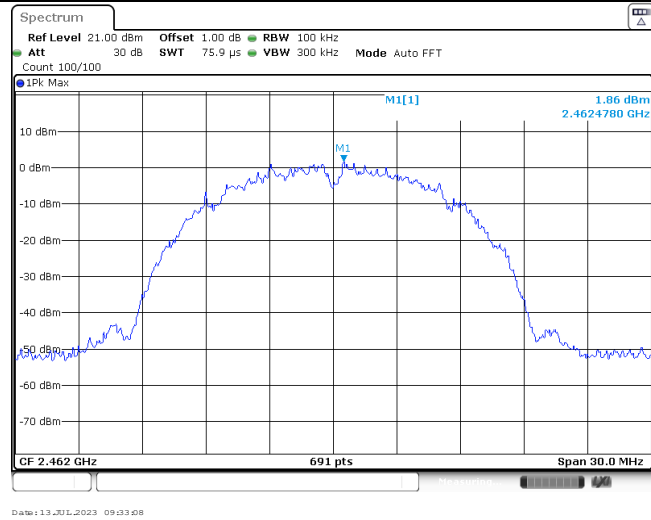
CH06
30MHz~1000MHz



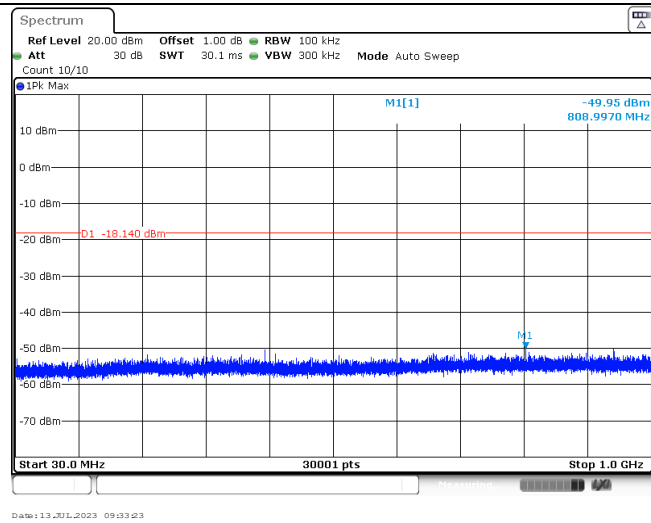
CH06
1GHz~26GHz



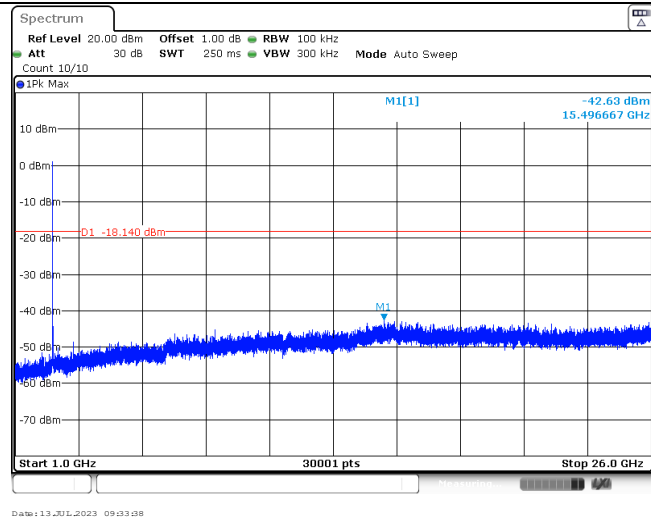
CH11
Reference level



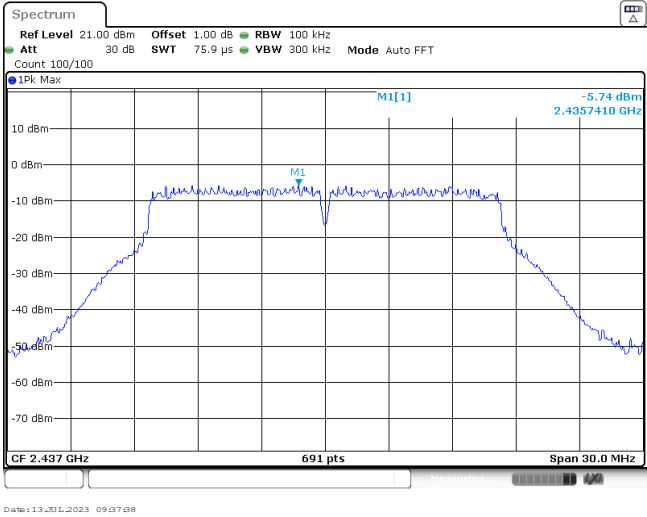
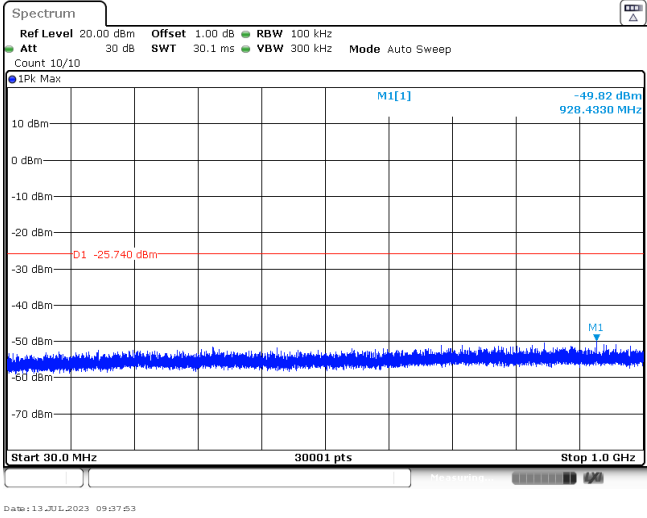
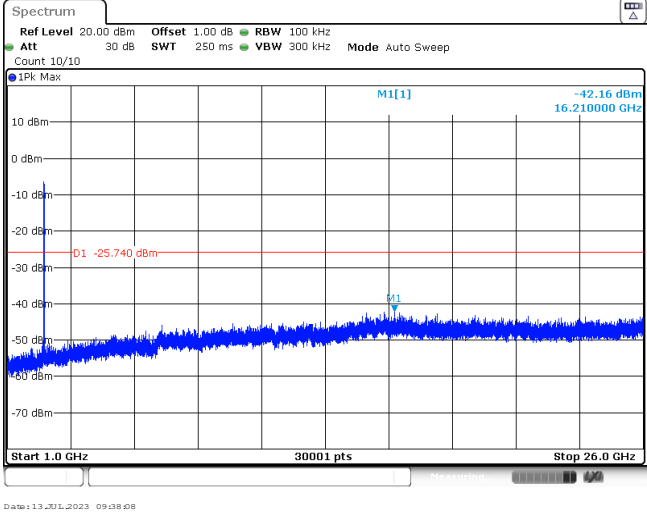
CH11
30MHz~1000MHz

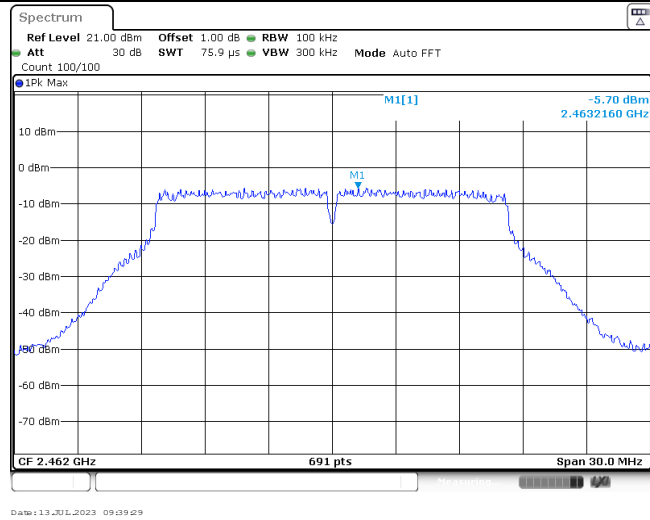
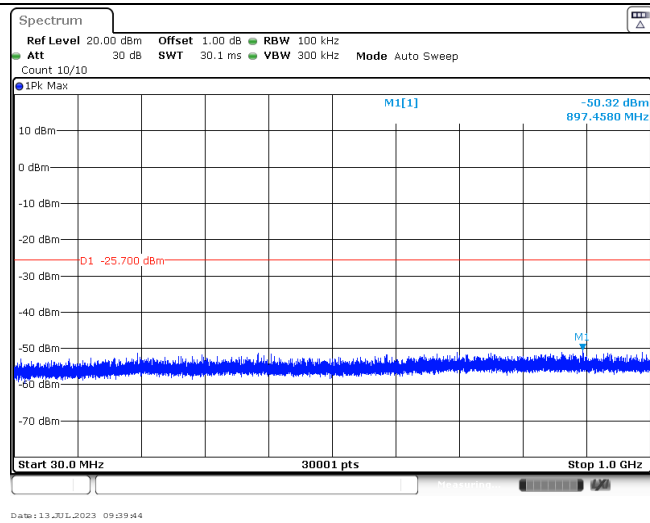
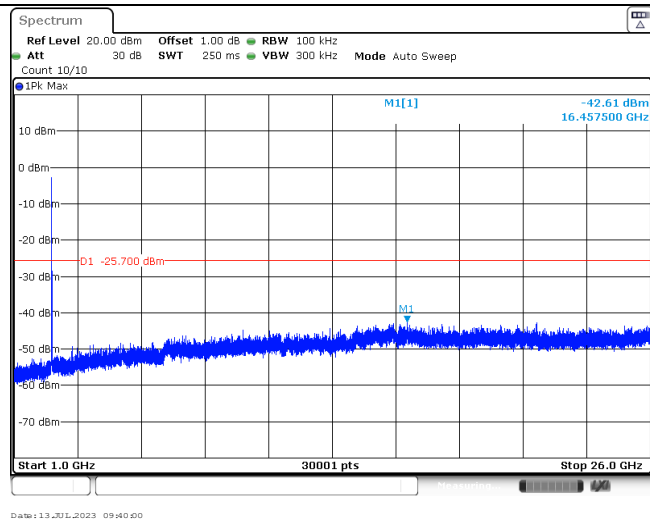


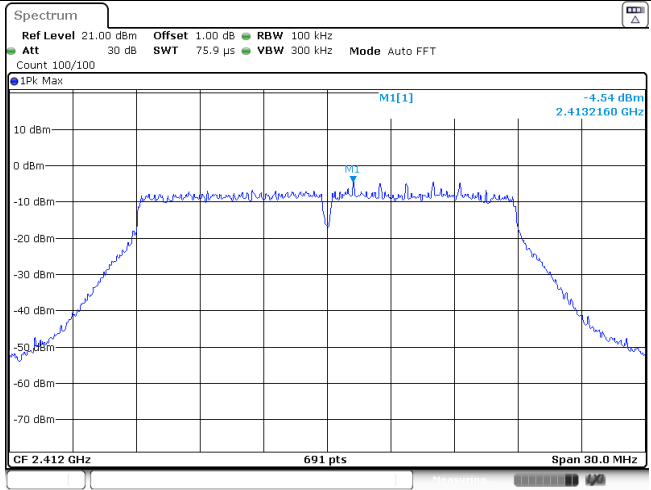
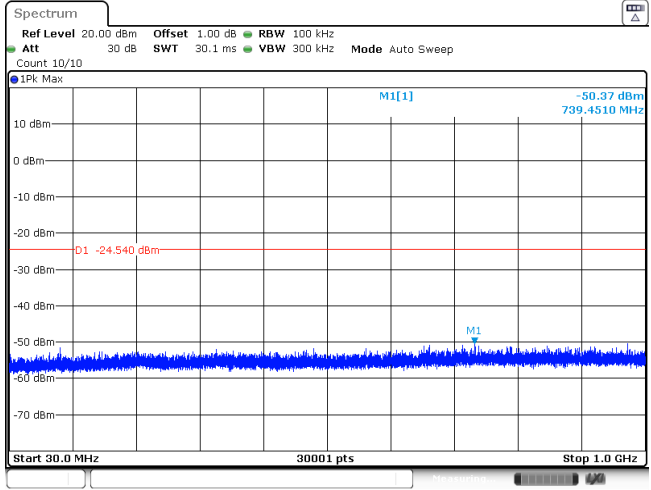
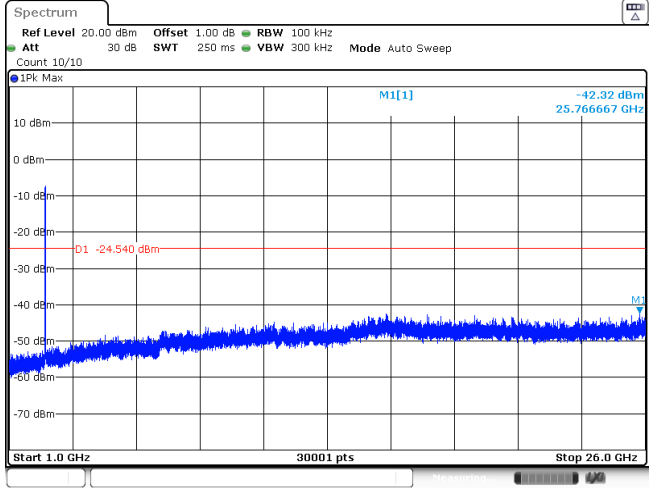
CH11
1GHz~26GHz



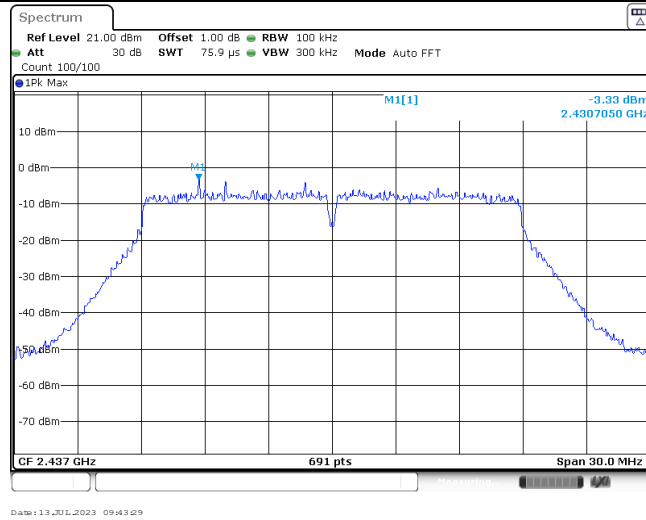
Test Item:	SE	Type:	802.11g
CH01 Reference level	Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -5.22 dBm 2.4169490 GHz M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.412 GHz 691 pts Span 30.0 MHz Date: 13-Jul-2023 09:35:04		
CH01 30MHz~1000MHz	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] -50.60 dBm 796.3880 MHz D1 -25.220 dBm M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 13-Jul-2023 09:35:19		
CH01 1GHz~26GHz	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] -42.75 dBm 15.795000 GHz D1 -25.220 dBm M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 13-Jul-2023 09:35:34		

CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

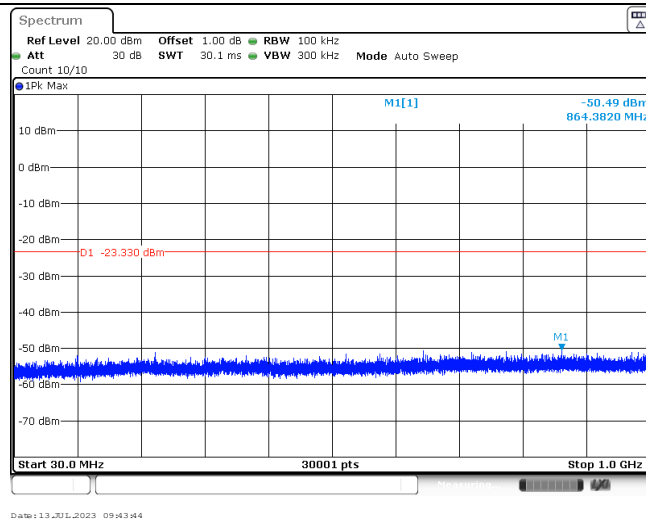
CH11
Reference levelCH11
30MHz~1000MHzCH11
1GHz~26GHz

Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level		 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 1Pk Max M1[1] -4.54 dBm 2.4132160 GHz CF 2.412 GHz 691 pts Span 30.0 MHz Date: 13 JUL 2023 09:41:09	
CH01 30MHz~1000MHz		 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] -50.37 dBm 799.4510 MHz D1 -24.540 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 13 JUL 2023 09:41:04	
CH01 1GHz~26GHz		 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] -42.32 dBm 25.766667 GHz D1 -24.540 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 13 JUL 2023 09:42:09	

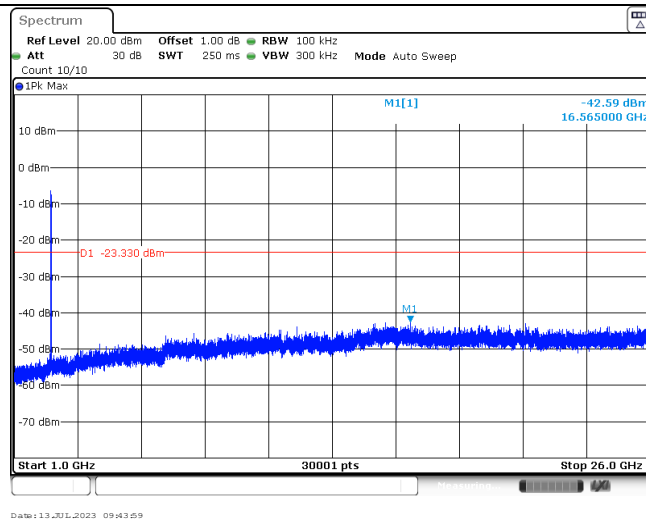
CH06
Reference level

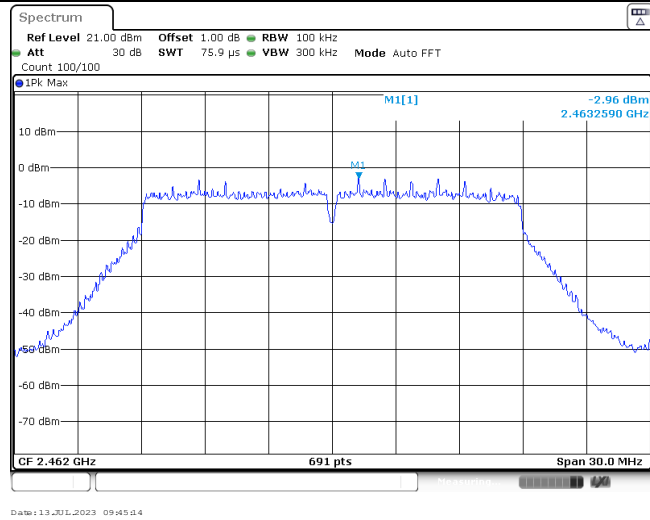
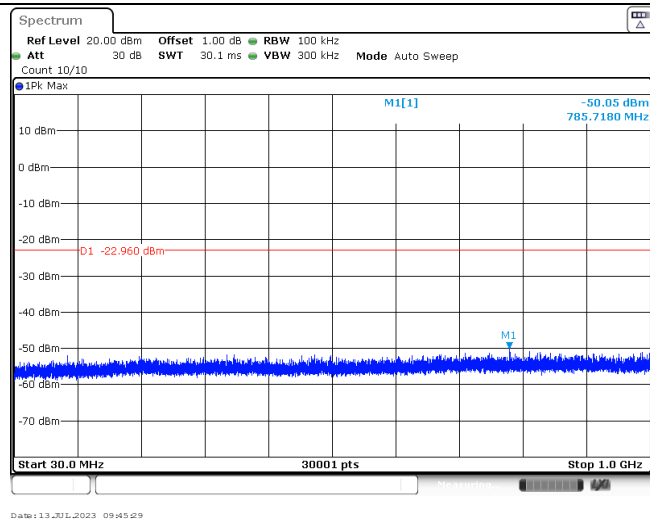
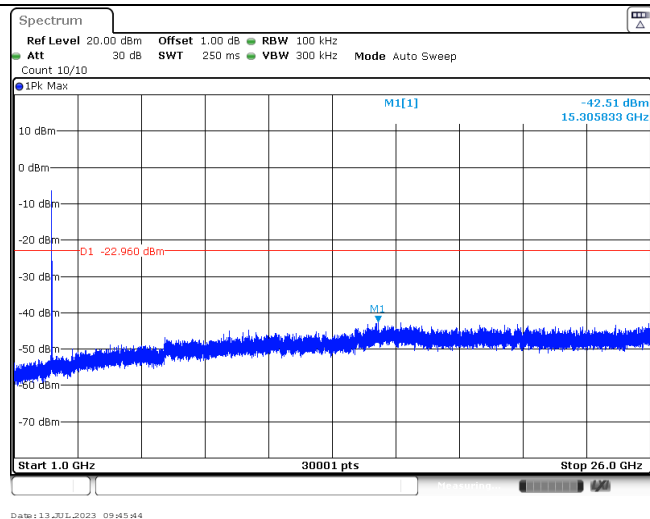


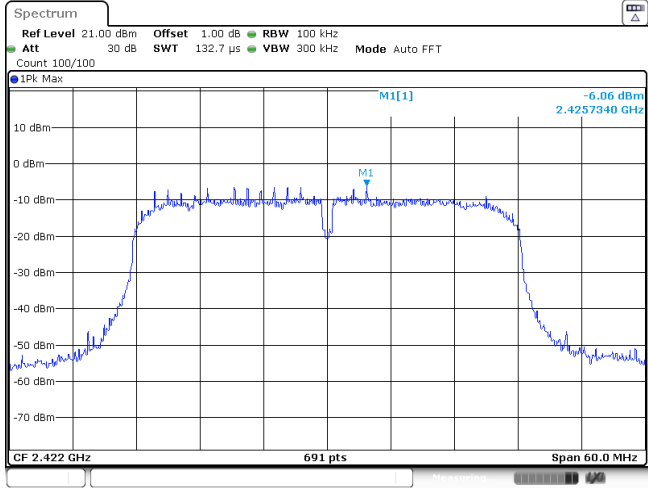
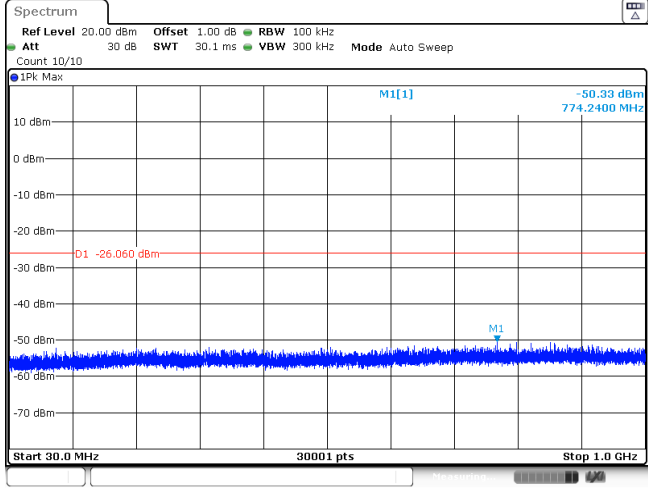
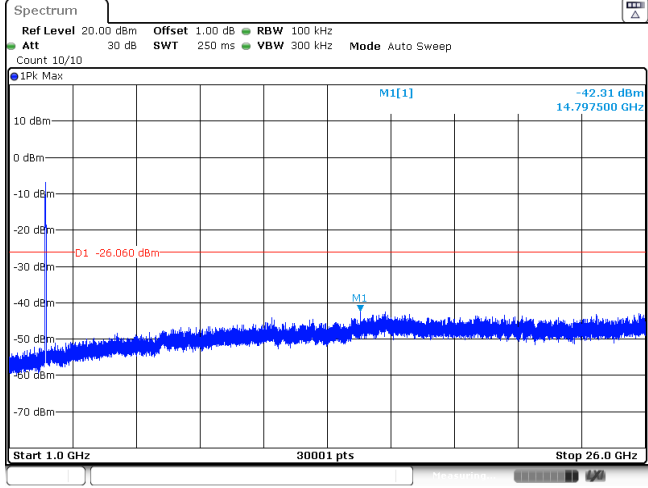
CH06
30MHz~1000MHz



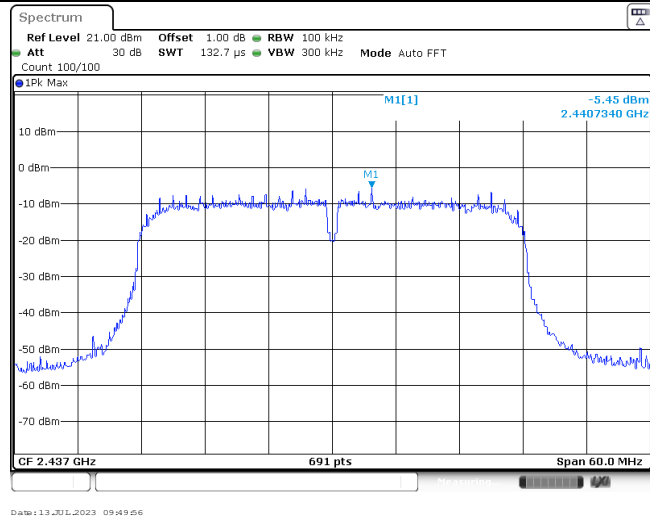
CH06
1GHz~26GHz



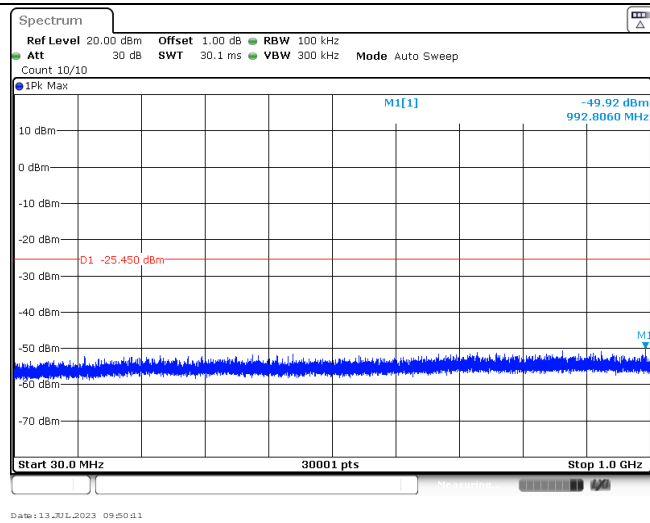
CH11
Reference levelCH11
30MHz~1000MHzCH11
1GHz~26GHz

Test Item:	SE	Type:	802.11n(HT40)
CH03 Reference level		 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] -6.06 dBm 2.4257340 GHz CF 2.422 GHz 691 pts Span 60.0 MHz Date: 13 JUL 2023 09:47:02	
CH03 30MHz~1000MHz		 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] -50.33 dBm 774.2400 MHz D1 -26.060 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 13 JUL 2023 09:47:07	
CH03 1GHz~26GHz		 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] -42.31 dBm 14.797500 GHz D1 -26.060 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 13 JUL 2023 09:47:02	

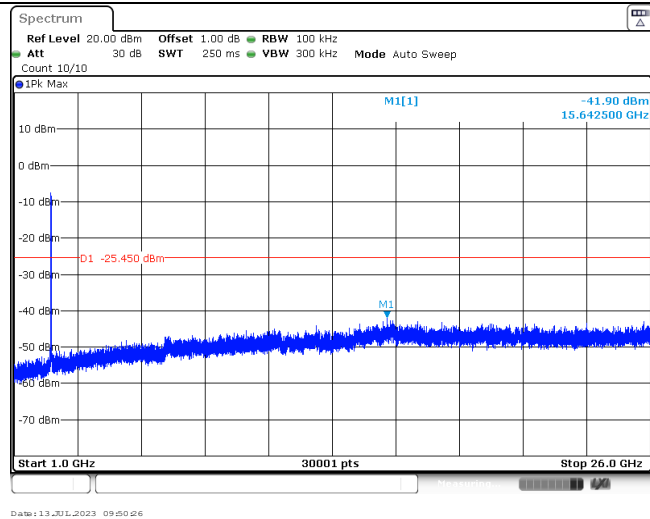
CH06
Reference level

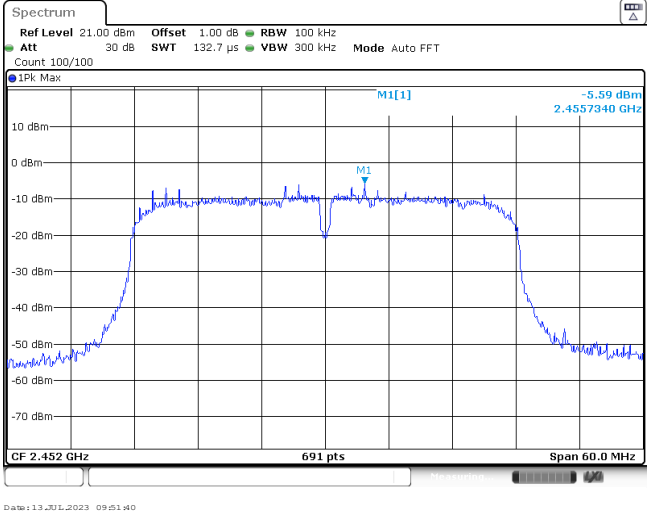
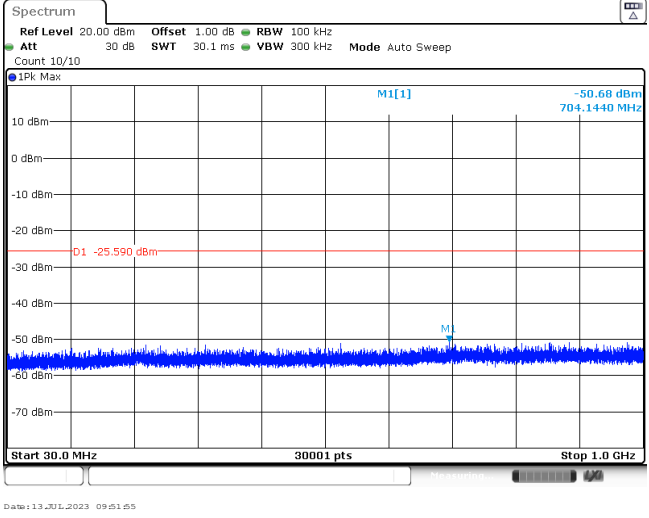
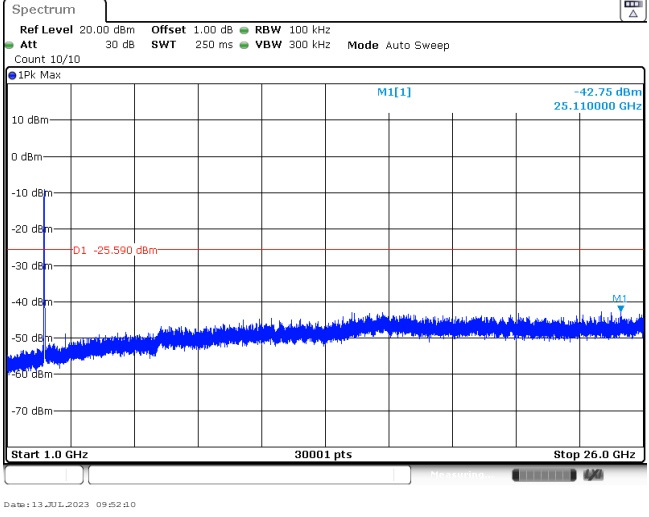


CH06
30MHz~1000MHz



CH06
1GHz~26GHz



CH09 Reference level	
CH09 30MHz~1000MHz	
CH09 1GHz~26GHz	

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