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Report Template Version: V05
Report Template Revision Date: 2021-11-03

TEST REPORT

Report No.: CQASZ20211202298E-01

Applicant: Shenzhen Shengtai smart Innovation Technology Co. LTD

Address of Applicant: South of 6th Floor, No. 6, Lianjian Technology Industrial Park, Huarong Road,

Tongsheng Community, Dalang Street, Longhua District, Shenzhen city.

Equipment Under Test (EUT):

Product: SMART EAR STICK

Model No.: WS1, WS2, WS3, WS5, WS6, WS7, WS8, WS9, WS10, WS1 Pro, WS2 Pro,

WS3 Pro, WS5 Pro, AS1, AS2, AS3, AS5, AS6, AS7, AS8, AS9, AS10, VS1, VS2,

VS3, VS5, VS6, VS7, VS8, VS9, VS10, HS1, HS2, HS3, HS5, HS6, HS7, HS8,

MS1, MS2, MS3, MS5, MS6, MS7, MS8, T1-1, T1.2, T2-K T2-2, T3-1, T3-2,

T6·2, T8·2, T9·2, A1, A2, A3, A5, A6, V1, V2, V3, V5, V6, W1, W2, W3, W5, W6,

H1, H2, H3, H5, H6, M1, M2, M3, M5, M6

Teat Model No.: WS1

Brand Name: YANDOCTOR

FCC ID: 2AZ4D-WS1-BK

Standards: 47 CFR Part 15, Subpart C

Date of Receipt: 2021-12-31

Date of Test: 2021-12-31 to 2022-02-24

Date of Issue: 2022-03-21
Test Result: PASS*

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

Tested By:

(Lewis Zhou)

Reviewed By:

(Rock Huang)

Approved By:

(Jack Ai)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



Report No.: CQASZ20211202298E-01

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20211202298E-01	Rev.01	Initial report	2022-03-21





2 Test Summary

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



3 Contents

	Page
1 VERSION	2
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	5
4.1 CLIENT INFORMATION	5
4.2 GENERAL DESCRIPTION OF EUT	5
4.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	5
4.4 TEST ENVIRONMENT AND MODE	
4.5 DESCRIPTION OF SUPPORT UNITS	
4.6 TEST LOCATION	
4.7 TEST FACILITY	
4.8 STATEMENT OF THE MEASUREMENT UNCERTAINTY	
4.9 DEVIATION FROM STANDARDS	
4.10 ABNORMALITIES FROM STANDARD CONDITIONS	_
4.11 OTHER INFORMATION REQUESTED BY THE CUSTOMER	
4.12 EQUIPMENT LIST	14
5 TEST RESULTS AND MEASUREMENT DATA	15
5.1 ANTENNA REQUIREMENT	15
5.2 CONDUCTED EMISSIONS	
5.3 CONDUCTED PEAK & AVERAGE OUTPUT POWER	
Test Result	
5.4 6DB OCCUPY BANDWIDTH	
Test Result	
5.5 POWER SPECTRAL DENSITY	
Test Result	
Test Result	
5.7 RF CONDUCTED SPURIOUS EMISSIONS	
Test Result	
5.8 RADIATED SPURIOUS EMISSIONS	
5.8.1 Radiated emission below 1GHz.	
5.8.2 Transmitter emission above 1GHz	
5.9 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	
6 PHOTOGRAPHS - EUT TEST SETUP	75
6.1 RADIATED SPURIOUS EMISSION	
6.2 CONDUCTED EMISSION	
7 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	77



Report No.: CQASZ20211202298E-01

4 General Information

4.1 Client Information

Applicant:	Shenzhen Shengtai smart Innovation Technology Co. LTD	
Address of Applicant:	South of 6th Floor, No. 6, Lianjian Technology Industrial Park, Huarong R Tongsheng Community, Dalang Street, Longhua District, Shenzhen city.	
Manufacturer:	Shenzhen Shine Tech Intel Co. , LTD	
Address of Manufacturer:	New District of Longhua, Dalang Street, Shenzhen Lianjian Industrial Park 6 6th Floor	
Factory:	Shenzhen Shine Tech Intel Co. , LTD	
Address of Factory:	New District of Longhua, Dalang Street, Shenzhen Lianjian Industrial Park 6 6th Floor	

4.2 General Description of EUT

Product Name:	SMART EAR STICK
Model No.:	WS1, WS2, WS3, WS5, WS6, WS7, WS8, WS9, WS10, WS1 Pro, WS2 Pro,
	WS3 Pro, WS5 Pro, AS1, AS2, AS3, AS5, AS6, AS7, AS8, AS9, AS10, VS1,
	VS2, VS3, VS5, VS6, VS7, VS8, VS9, VS10, HS1, HS2, HS3, HS5, HS6,
	HS7, HS8, MS1, MS2, MS3, MS5, MS6, MS7, MS8, T1-1, T1.2, T2-K T2·2,
	T3·1, T3·2, T6·2, T8·2, T9·2, A1, A2, A3, A5, A6, V1, V2, V3, V5, V6, W1,
	W2, W3, W5, W6, H1, H2, H3, H5, H6, M1, M2, M3, M5, M6
Test Model No.:	WS1
Trade Mark:	YANDOCTOR
Software Version:	1.1.9
Hardware Version:	V1
Power Supply:	Li-ion battery: DC 3.7V 270mAh, Charge by DC 5V for adapter
EUT Supports Radios application:	2.4GHz: Wi-Fi: 802.11b/g/n(HT20): 2412MHz~2462MHz

4.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz			
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels			
Channel Separation:	5MHz			
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK)			
	IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM, QPSK, BPSK)			
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps			
	IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps			
	IEEE for 802.11n(HT20) :			
	6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps			
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location			
Test Software of EUT:	Wifi Test Tool v1.4.0			



Report No.: CQASZ20211202298E-01

Antenna Type:	FPC antenna
Antenna Gain:	-1.93dBi

Note:

Model No.: WS1, WS2, WS3, WS5, WS6, WS7, WS8, WS9, WS10, WS1 Pro, WS2 Pro, WS3 Pro, WS5 Pro, AS1, AS2, AS3, AS5, AS6, AS7, AS8, AS9, AS10, VS1, VS2, VS3, VS5, VS6, VS7, VS8, VS9, VS10, HS1, HS2, HS3, HS5, HS6, HS7, HS8, MS1, MS2, MS3, MS5, MS6, MS7, MS8, T1-1, T1.2, T2-K T2-2, T3-1, T3-2, T6-2, T8-2, T9-2, A1, A2, A3, A5, A6, V1, V2, V3, V5, V6, W1, W2, W3, W5, W6, H1, H2, H3, H5, H6, M1, M2, M3, M5, M6

Only the model WS1 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.



Report No.: CQASZ20211202298E-01

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

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11b/g/n (HT20):

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

Note:

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



Report No.: CQASZ20211202298E-01

4.4 Test Environment and Mode

Radiated Emissions:	
Temperature:	25.3 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009 mbar
Conducted Emissions:	
Temperature:	25.6 °C
Humidity:	60 % RH
Atmospheric Pressure:	1009 mbar
Radio conducted item test	(RF Conducted test room):
Temperature:	25.5 °C
Humidity:	52 % RH
Atmospheric Pressure:	1009 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and kind of data rate.
Run Software: Full Set Tool V1.4.0 Port Name: FP_Port FP_FORT FP_	- X
Main Efuse Control MAC Address Channel 1 Wlan Mode Bandwidth 20 Data Rate CCK_ Wiffi - Tx Mode HT-M Start Stop RX Packet Counter Test Mode Continuous IEVM]phy init IEVM]phy init IEVM]phy init IEVM]phy init IEVM]pty channel:241 Interval 2 Single Reset Fteem - p. 4	TX Setting Single Tone FALSE Tx Opt FALSE Temperature Cali TXPwr 4 Xtal C Auto SAVE IN FLASH TX Setting Pattern TX Packet Setup Pattern TX Det FALSE Count Length Count Length



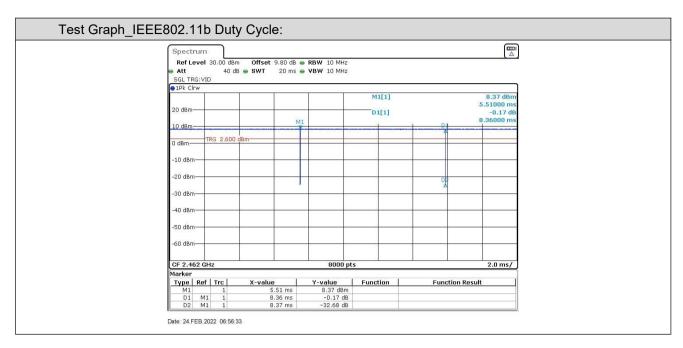
Report No.: CQASZ20211202298E-01

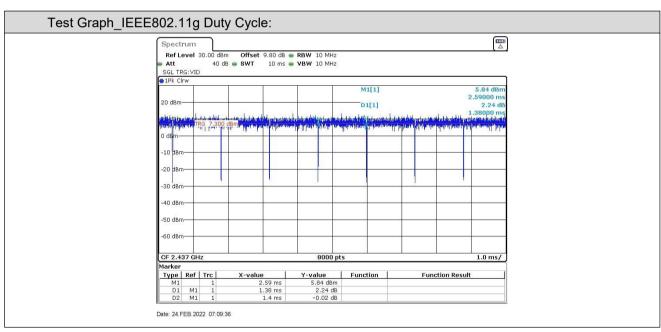
Operated Mode for Worst Duty Cycle:				
Test Mode	Duty Cycle(%)	Average correction factor(dB)		
IEEE802.11b	99.88	0.01		
IEEE802.11g	98.57	0.06		
IEEE802.11n (HT20)	99.24	0.03		

Remark:

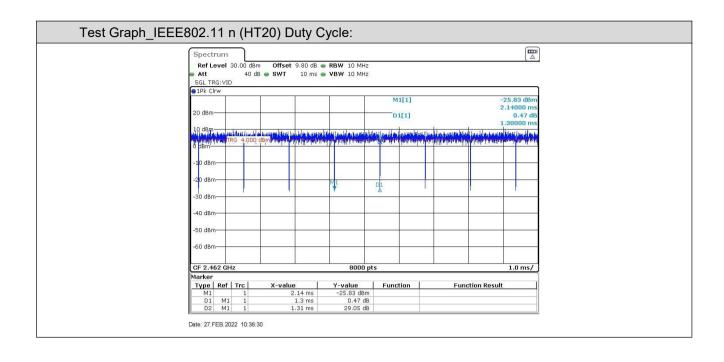
- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = 10 * log(1/ Duty cycle);













Report No.: CQASZ20211202298E-01

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Adapter	MI	1	1	CQA

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	1	/

4.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

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

4.7 Test Facility

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

• A2LA (Certificate No. 4742.01)

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

• FCC Registration No.: 522263

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



4.8 Statement of the measurement uncertainty

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

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

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

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

Hereafter the best measurement capability for CQA laboratory is reported:

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

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

4.9 Deviation from Standards

None.

4.10 Abnormalities from Standard Conditions

None.

4.11 Other Information Requested by the Customer

None.



4.12 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2021/09/10	2022/09/09
Spectrum analyzer	R&S	FSU26	CQA-038	2021/09/10	2022/09/09
Spectrum analyzer	R&S	FSU40	CQA-075	2021/09/10	2022/09/09
Preamplifier	MITEQ	AFS4-00010300-18- 10P-4	CQA-035	2021/09/10	2022/09/09
Preamplifier	MITEQ	AMF-6D-02001800- 29-20P	CQA-036	2021/09/10	2022/09/09
Preamplifier	EMCI	EMC184055SE	CQA-089	2021/09/10	2022/09/09
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/09/16	2024/09/15
Bilog Antenna	R&S	HL562	CQA-011	2021/09/16	2024/09/15
Horn Antenna	R&S	HF906	CQA-012	2021/09/16	2024/09/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/09/16	2024/09/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2021/09/10	2022/09/09
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2021/09/10	2022/09/09
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2021/09/10	2022/09/09
Antenna Connector	CQA	RFC-01	CQA-080	2021/09/10	2022/09/09
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2021/09/10	2022/09/09
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2021/09/10	2022/09/09
Power meter	R&S	NRVD	CQA-029	2021/09/10	2022/09/09
Power divider	MIDWEST	PWD-2533-02-SMA- 79	CQA-067	2021/09/10	2022/09/09
EMI Test Receiver	R&S	ESR7	CQA-005	2021/09/10	2022/09/09
LISN	R&S	ENV216	CQA-003	2021/09/10	2022/09/09
Coaxial cable	CQA	N/A	CQA-C009	2021/09/10	2022/09/09
DC power	KEYSIGHT	E3631A	CQA-028	2021/09/10	2022/09/09

Test software:

	Manufacturer	Software brand
Radiated Emissions test software	Tonscend	JS1120-3
Conducted Emissions test software	Audix	e3
RF Conducted test software	Audix	e3



Report No.: CQASZ20211202298E-01

5 Test results and Measurement Data

5.1 Antenna Requirement

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

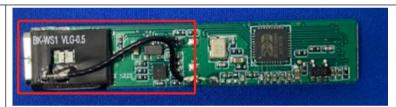
15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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

EUT Antenna:



The antenna is FPC antenna. The best case gain of the antenna is -1.93 dBi.



Report No.: CQASZ20211202298E-01

5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.2	207			
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Limit:	[Limit (d	lBuV)		
	Frequency range (MHz)	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 logarithn	n of the frequency.			
Test Procedure:	1) The mains terminal disturb room. 2) The EUT was connected to Impedance Stabilization Note impedance. The power call connected to a second reference plane in the same way as the multiple socket outlet strip a single LISN provided the reasonable single s	cance voltage test was bance voltage test was a AC power source throetwork) which provides oles of all other units of LISN 2, which was the LISN 1 for the unit less was used to connect ating of the LISN was not be upon a non-metallication of floor-standing and for floor-standing arround reference plane, the vertical ground reference of the vertical ground reference of the unit of the unit of the vertical ground reference plane. The total ground reference plane. The of the LISN 1 and the quipment was at least 0 arrows a transference cables must be united to the units of t	bugh a LISN 1 (Line to a 50Ω/50μH + 5Ω linear of the EUT were bonded to the ground being measured. A multiple power cables to not exceeded. To table 0.8m above the rangement, the EUT was derence plane. The rear dereference plane. The e horizontal ground om the boundary of the plane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2. The positions of		
Test Setup:	Shielding Room EUT AC Mains LISN1	Ground Reference Plane	Test Receiver		

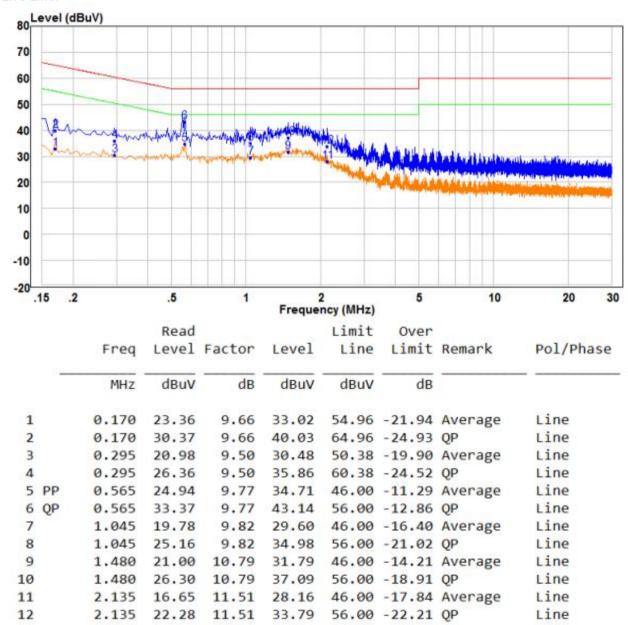


Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC120V/60Hz
Test Results:	Pass



Measurement Data

Live Line:

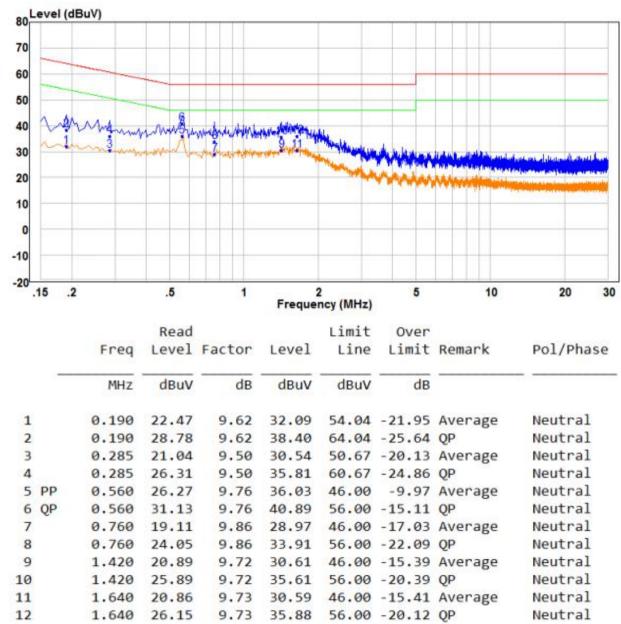


Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



Neutral Line:



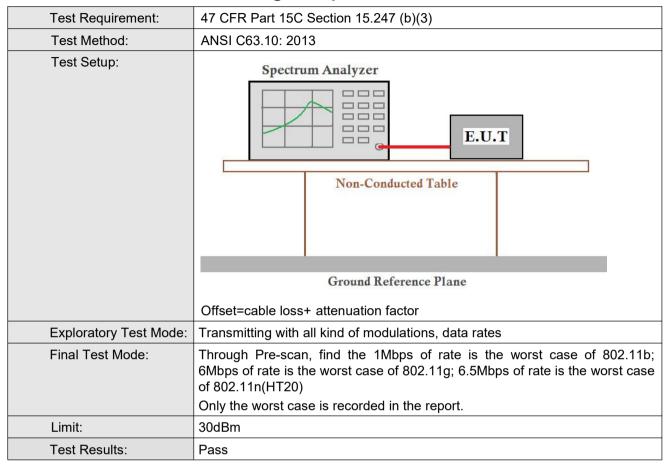
Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



Report No.: CQASZ20211202298E-01

5.3 Conducted Peak & Average Output Power





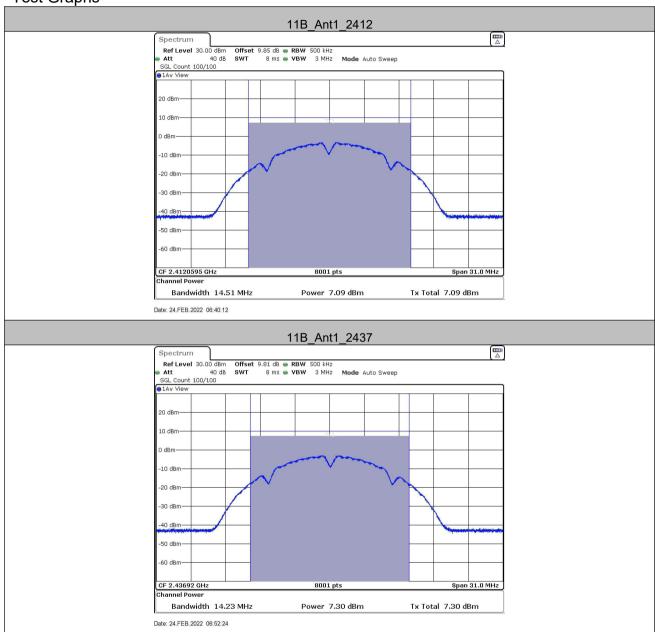
Report No.: CQASZ20211202298E-01

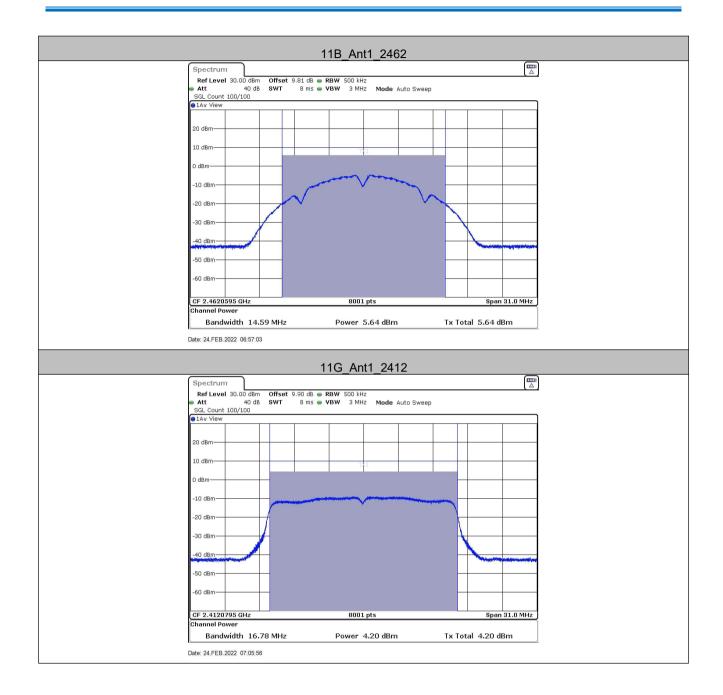
Test Result

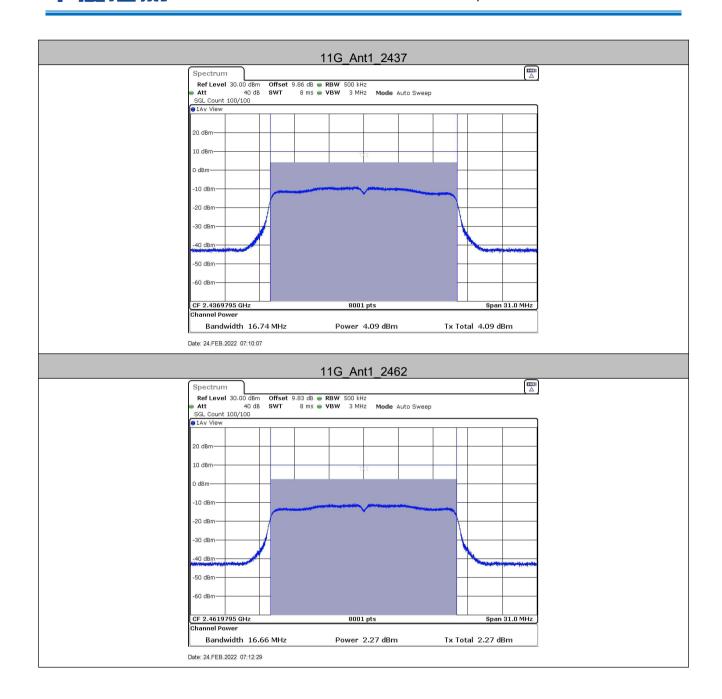
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2412	7.09	≤30	PASS
11B	Ant1	2437	7.30	≤30	PASS
		2462	5.64	≤30	PASS
		2412	4.20	≤30	PASS
11G	Ant1	2437	4.09	≤30	PASS
		2462	2.27	≤30	PASS
		2412	3.41	≤30	PASS
11N20SISO	Ant1	2437	3.96	≤30	PASS
		2462	2.20	≤30	PASS



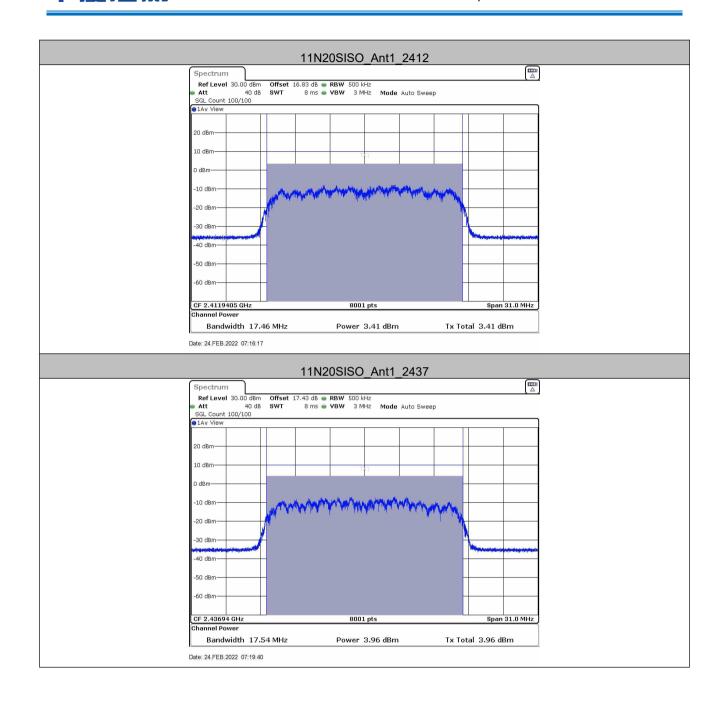
Test Graphs



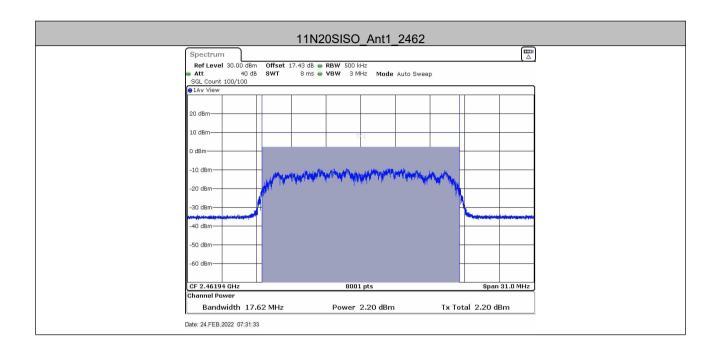








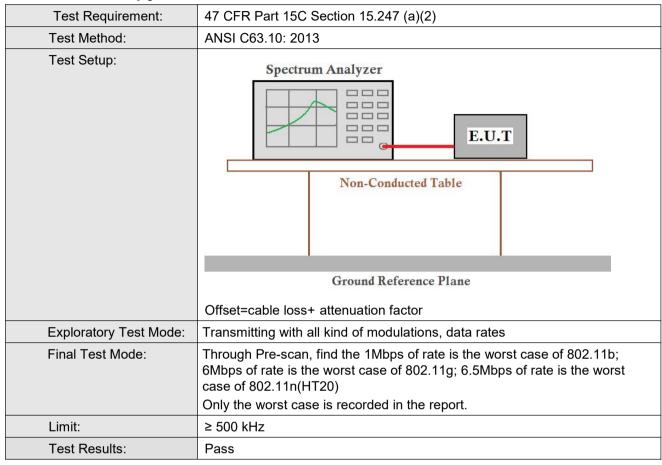








5.4 6dB Occupy Bandwidth





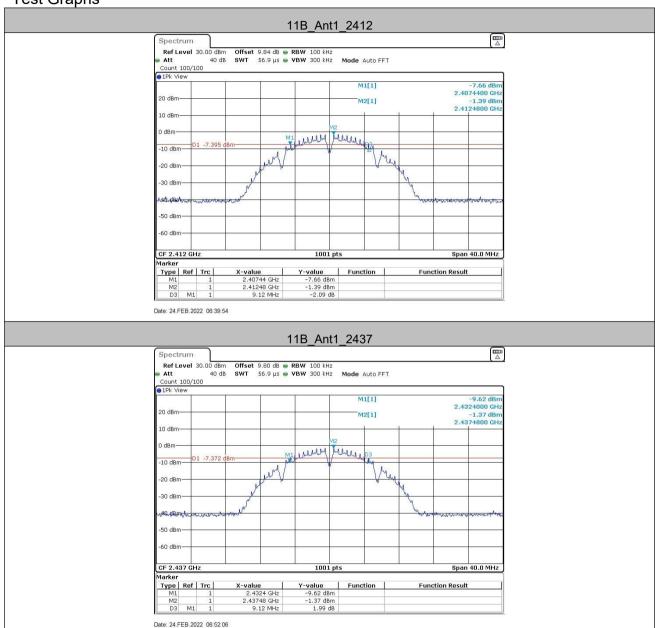
Report No.: CQASZ20211202298E-01

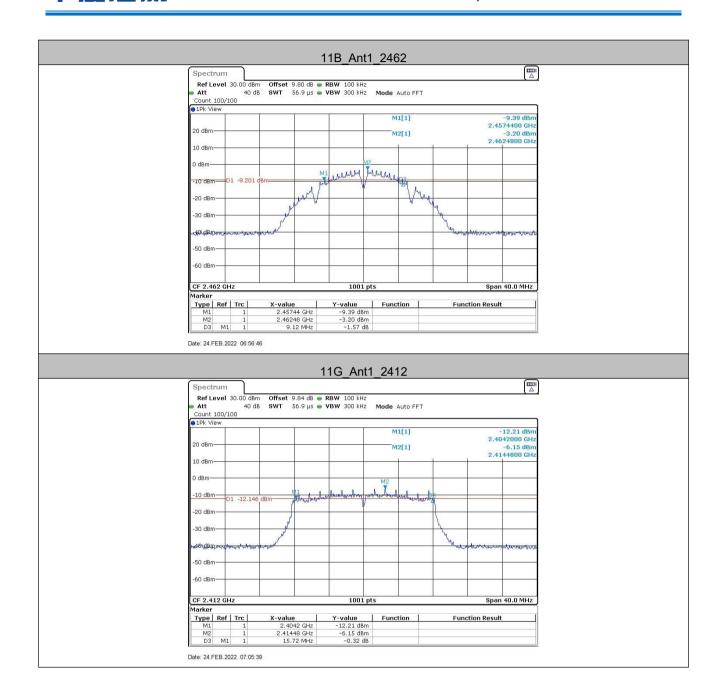
Test Result

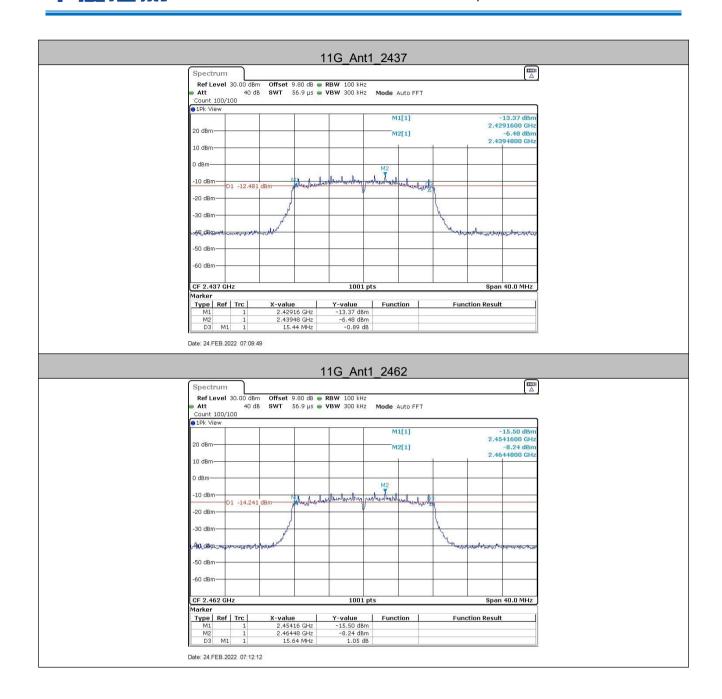
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2412	9.120	2407.440	2416.560	0.5	PASS
11B	Ant1	2437	9.120	2432.400	2441.520	0.5	PASS
		2462	9.120	2457.440	2466.560	0.5	PASS
		2412	15.720	2404.200	2419.920	0.5	PASS
11G	Ant1	2437	15.440	2429.160	2444.600	0.5	PASS
		2462	15.640	2454.160	2469.800	0.5	PASS
		2412	15.240	2404.360	2419.600	0.5	PASS
11N20SISO	Ant1	2437	15.240	2429.360	2444.600	0.5	PASS
		2462	15.240	2454.360	2469.600	0.5	PASS



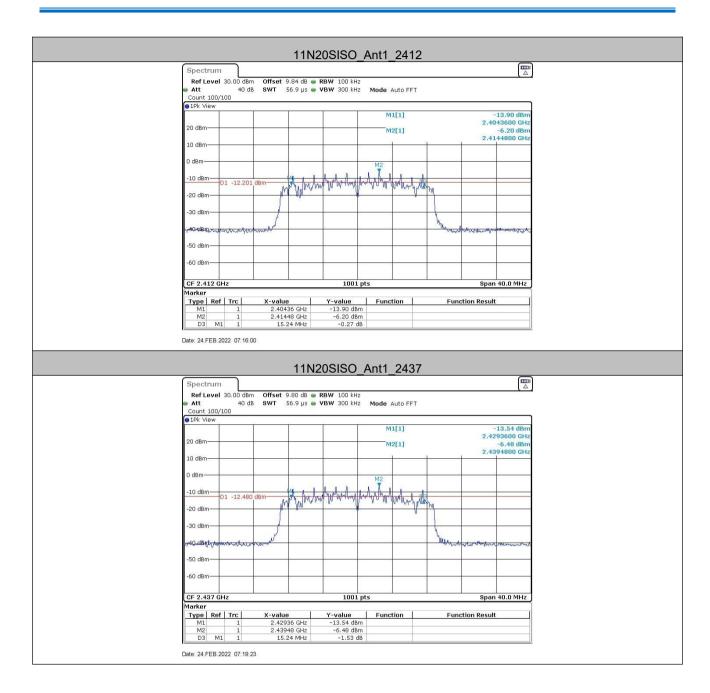




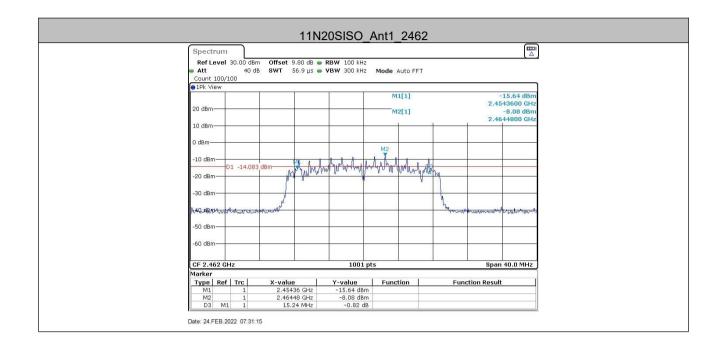








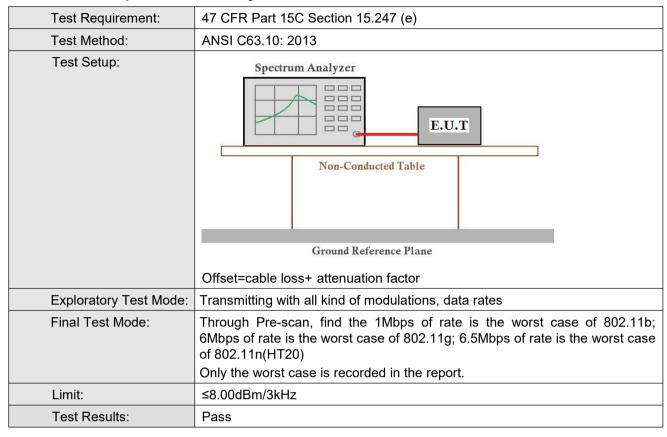






Report No.: CQASZ20211202298E-01

5.5 Power Spectral Density





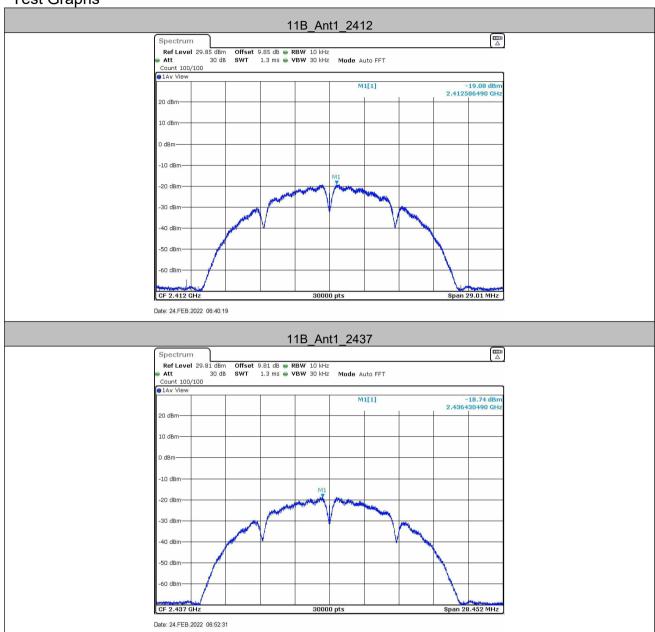
Report No.: CQASZ20211202298E-01

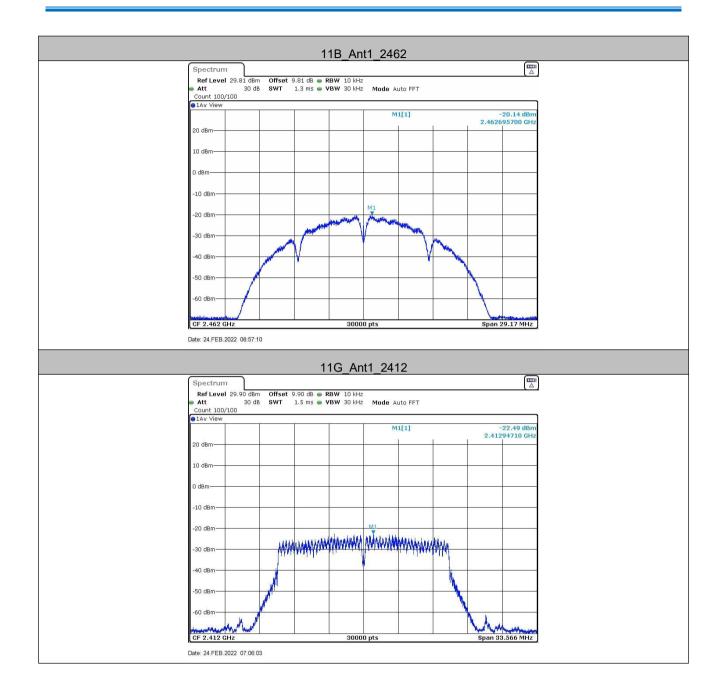
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
		2412	-19.08	≤8	PASS
11B	Ant1	2437	-18.74	≤8	PASS
		2462	-20.14	≤8	PASS
		2412	-22.49	≤8	PASS
11G	Ant1	2437	-21.93	≤8	PASS
		2462	-23.8	≤8	PASS
		2412	-16.2	≤8	PASS
11N20SISO	Ant1	2437	-16.57	≤8	PASS
		2462	-18.48	≤8	PASS

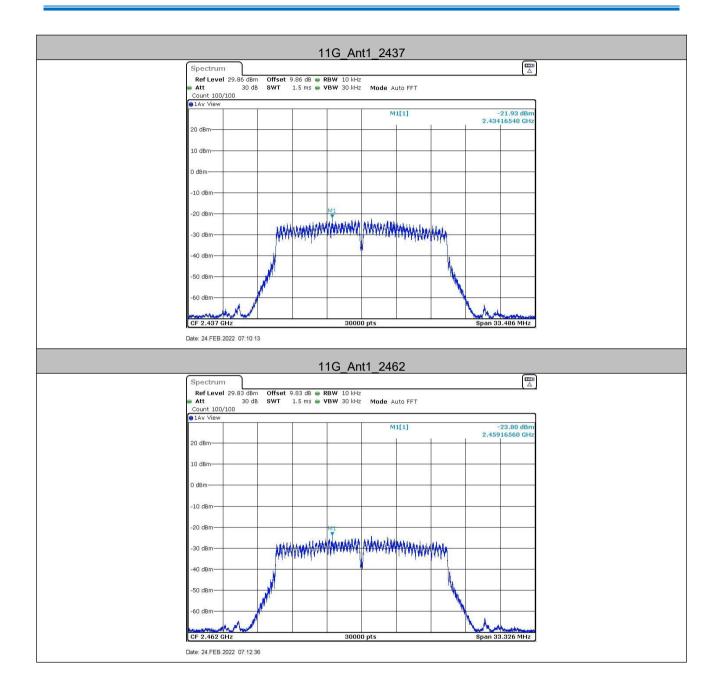


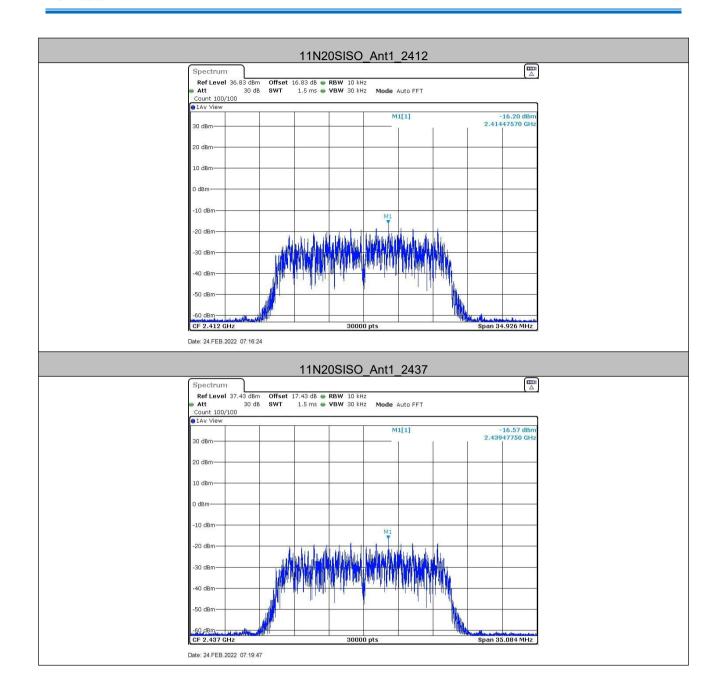




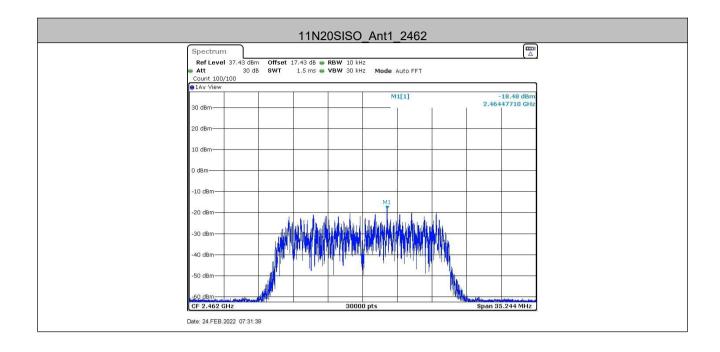








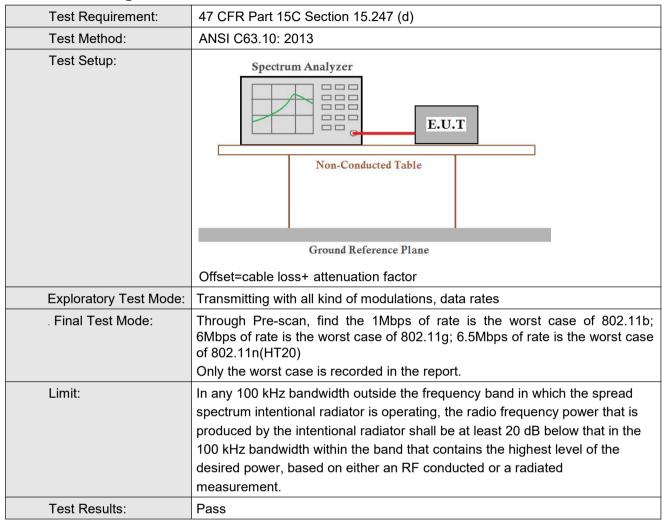








5.6 Band-edge for RF Conducted Emissions





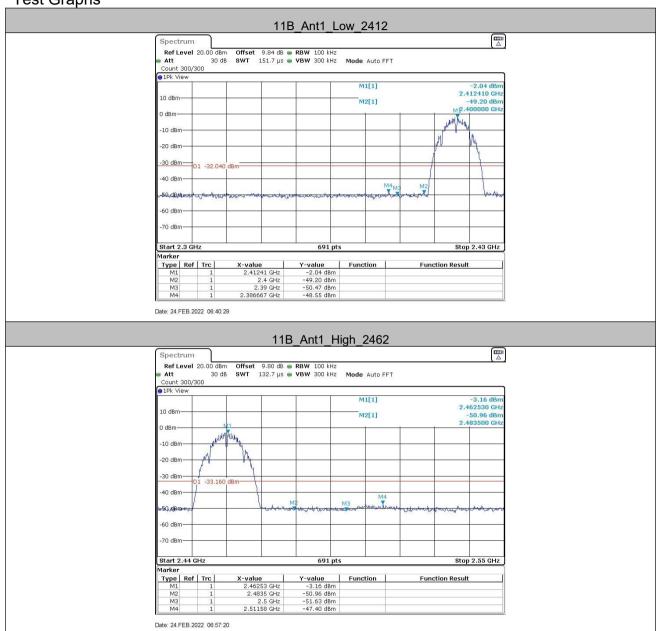
Report No.: CQASZ20211202298E-01

Test Result

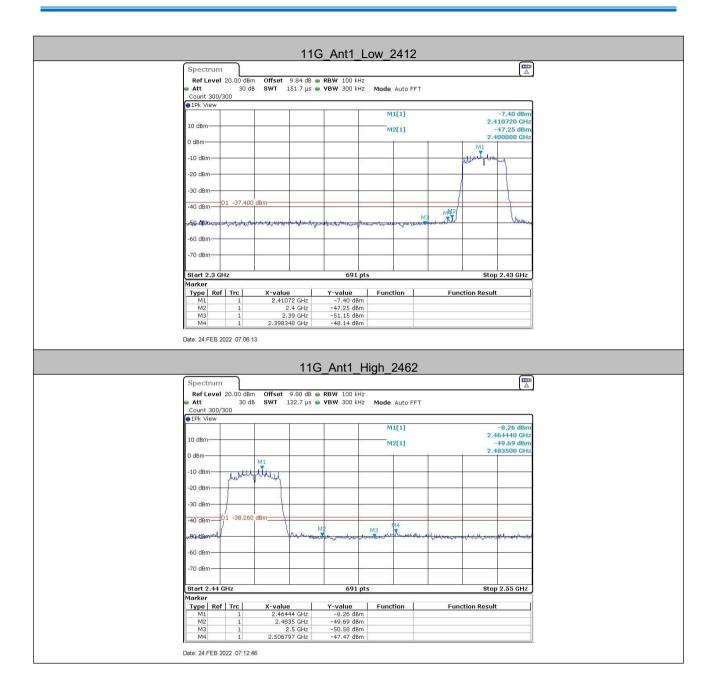
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-2.04	-48.55	≤-32.04	PASS
		High	2462	-3.16	-47.4	≤-33.16	PASS
11G	Ant1	Low	2412	-7.40	-48.14	≤-37.4	PASS
		High	2462	-8.26	-47.47	≤-38.26	PASS
11N20SISO	Ant1	Low	2412	-6.50	-48.11	≤-36.5	PASS
		High	2462	-8.30	-46.97	≤-38.3	PASS



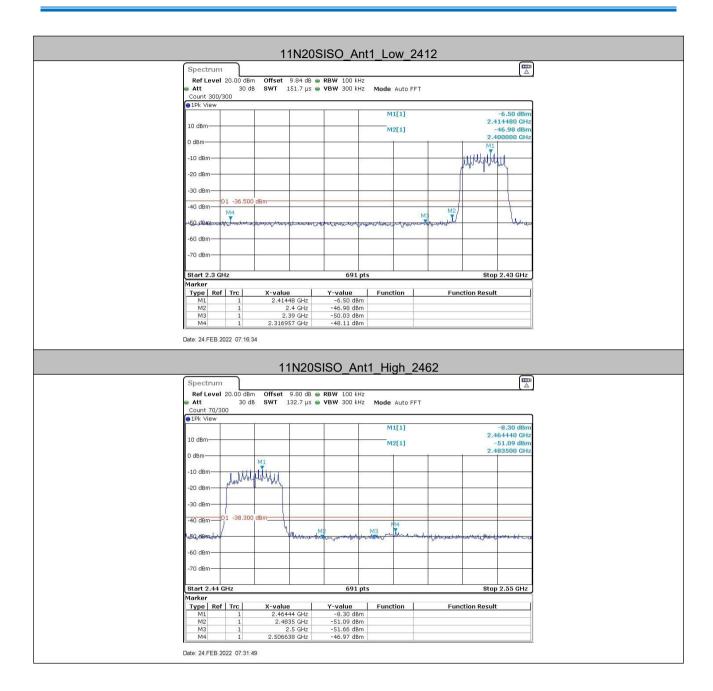








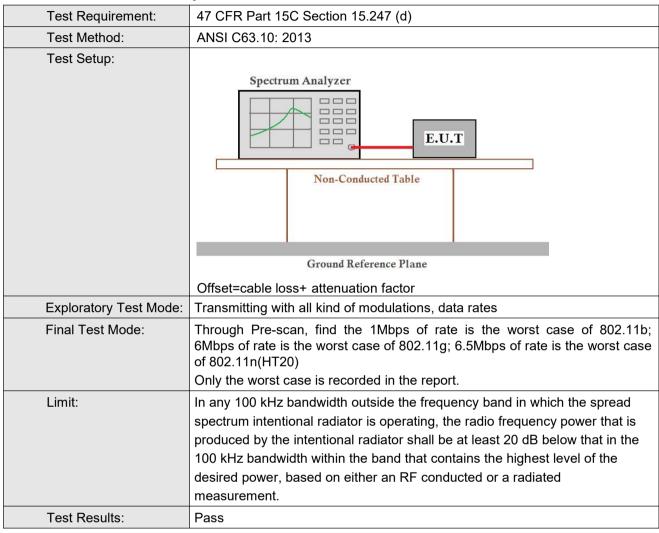






Report No.: CQASZ20211202298E-01

5.7 RF Conducted Spurious Emissions





Report No.: CQASZ20211202298E-01

Test Result

TestMode	Antenna	Channel	FreqRange	RefLevel	Result	Limit	Verdict
			[Mhz]	[dBm]	[dBm]	[dBm]	
11B	Ant1	2412	Reference	-2.00	-2.00		PASS
			30~1000	-2.00	-56.09	≤-32	PASS
			1000~26500	-2.00	-47.43	≤-32	PASS
		2437	Reference	-1.61	-1.61		PASS
			30~1000	-1.61	-57.24	≤-31.61	PASS
			1000~26500	-1.61	-50.77	≤-31.61	PASS
		2462	Reference	-3.63	-3.63		PASS
			30~1000	-3.63	-57.5	≤-33.63	PASS
			1000~26500	-3.63	-53.17	≤-33.63	PASS
11G	Ant1	2412	Reference	-7.16	-7.16		PASS
			30~1000	-7.16	-56.91	≤-37.16	PASS
			1000~26500	-7.16	-52.31	≤-37.16	PASS
		2437	Reference	-6.54	-6.54		PASS
			30~1000	-6.54	-56.86	≤-36.54	PASS
			1000~26500	-6.54	-53.27	≤-36.54	PASS
		2462	Reference	-8.23	-8.23		PASS
			30~1000	-8.23	-56.83	≤-38.23	PASS
			1000~26500	-8.23	-53.29	≤-38.23	PASS
11N20SISO	Ant1	2412	Reference	-6.51	-6.51		PASS
			30~1000	-6.51	-56.42	≤-36.51	PASS
			1000~26500	-6.51	-52.46	≤-36.51	PASS
		2437	Reference	-6.60	-6.60		PASS
			30~1000	-6.60	-57.31	≤-36.6	PASS
			1000~26500	-6.60	-53.08	≤-36.6	PASS
		2462	Reference	-8.39	-8.39		PASS
			30~1000	-8.39	-57.16	≤-38.39	PASS
			1000~26500	-8.39	-53.22	≤-38.39	PASS



Test Graphs

