



TEST REPORT

Applicant Name : INFINIX MOBILITY LIMITED
Address : FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25
SHAN MEI STREET FOTAN NT HONG KONG
Report Number : RA221125-56859E-RF-00B
FCC ID: 2AIZN-X6516

Test Standard (s)

FCC PART 15.247

Sample Description

Product Type: Mobile Phone
Model No.: X6516
Multiple Model(s) No.: N/A
Trade Mark: Infinix
Date Received: 2022/11/25
Report Date: 2023/01/10

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Nick Fang
EMC Engineer

Approved By:

Candy Li
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	BLE: 2402-2480MHz Wi-Fi: 2412-2472MHz
Maximum Conducted Peak Output Power	BLE 1M: -1.96dBm Wi-Fi: 14.81dBm(802.11b), 12.99dBm(802.11g), 12.93dBm(802.11n20)
Modulation Technique	BLE: GFSK Wi-Fi: DSSS, OFDM
Antenna Specification*	-2.0dBi (provided by the applicant)
Voltage Range	DC 3.85V from battery or DC 5V from adapter
Sample serial number	1S3T-1 for Conducted and Radiated Emissions Test 1S43-5 for RF Conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition
Adapter information	Model: U100XSA Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 2.0A

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		5%
RF output power, conducted		0.73dB
Unwanted Emission, conducted		1.6dB
AC Line Conducted emission		2.72dB
Emissions, Radiated	30MHz - 1GHz	4.28dB
	1GHz- 18GHz	4.98dB
	18GHz- 26.5GHz	5.06dB
Temperature		1°C
Humidity		6%
Supply voltages		0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISED), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 2.4GHz Wi-Fi mode, total 13 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442	/	/

802.11b, 802.11g and 802.11n-HT20 mode was tested with Channel 1, 7 and 13.

For BLE mode, 40 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

EUT was tested with Channel 0, 19 and 39.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

EUT was tested in engineering mode.

The device was tested with the worst case was performed as below:

Mode	Data rate	Power Level*		
		Low Channel	Middle Channel	High Channel
802.11b	1Mbps	14	17	14
802.11g	6Mbps	8	12	8
802.11n-HT20	MCS0	8	11	8
BLE	1Mbps	Default	Default	Default

Note: the power level was provided by applicant.

Duty cycle

Test Result: Compliant. Please refer to the Appendix Wi-Fi and Appendix BLE.

Support Equipment List and Details

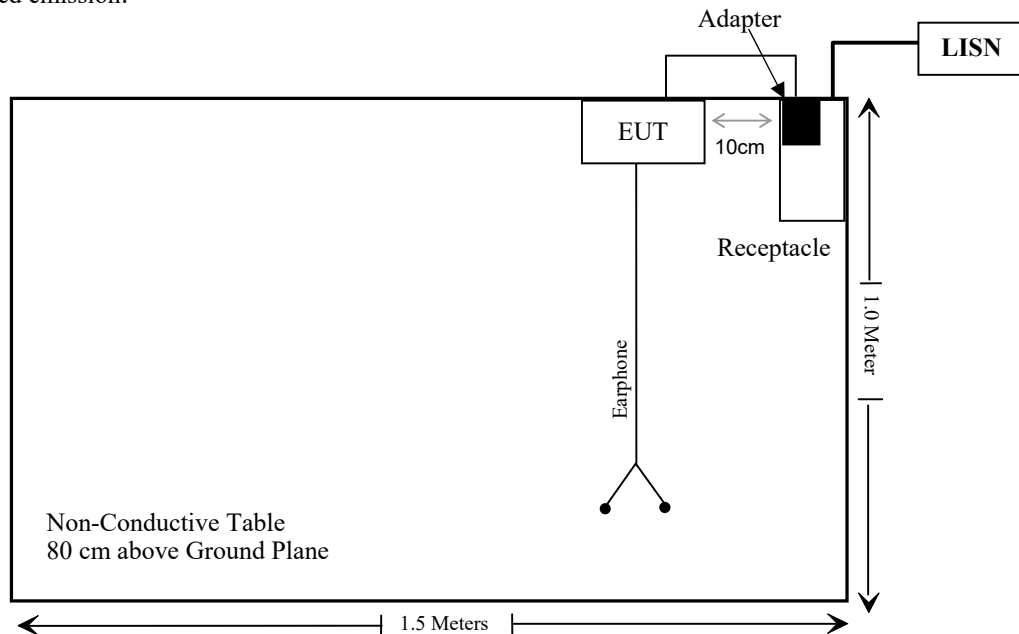
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

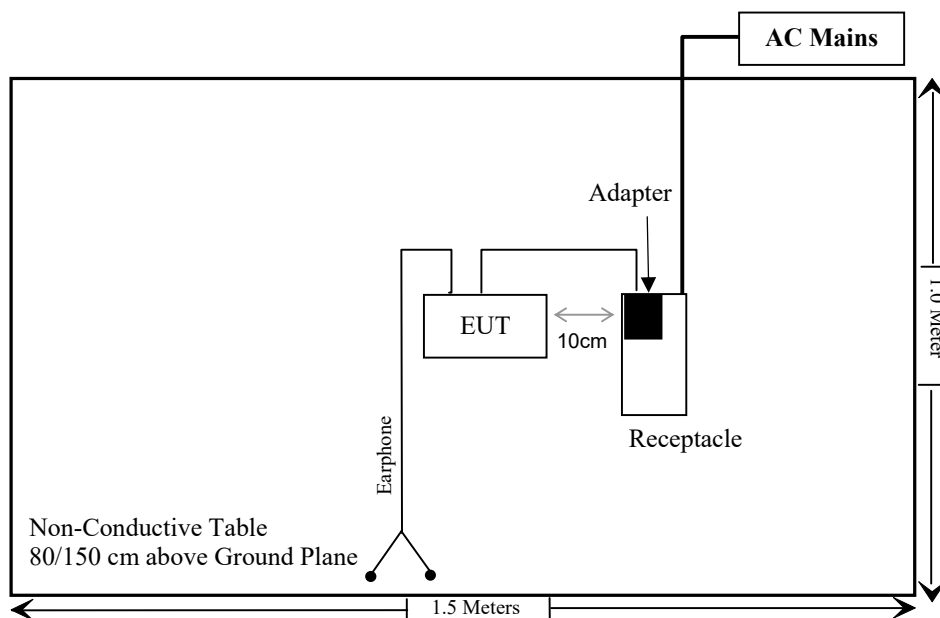
Cable Description	Length (m)	From Port	To
Unshielded detachable USB cable	1.0	adapter	EUT

Block Diagram of Test Setup

For conducted emission:



For Radiated Emissions:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (3) & §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth & Occupied Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted emission test					
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2022/11/25	2023/11/24
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2022/11/25	2023/11/24
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2022/12/07	2023/12/06
Unknown	RF Coaxial Cable	No.17	N0350	2022/11/25	2023/11/24
Conducted Emission Test Software: e3 19821b (V9)					
Radiated emission test					
Rohde& Schwarz	Test Receiver	ESR	102725	2022/11/25	2023/11/24
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2022/11/25	2023/11/24
SONOMA INSTRUMENT	Amplifier	310 N	186131	2022/11/08	2023/11/07
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2022/11/08	2023/11/07
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2022/11/08	2023/11/07
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04
Radiated Emission Test Software: e3 19821b (V9)					
Unknown	RF Coaxial Cable	No.10	N050	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.11	N1000	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.12	N040	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.13	N300	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.14	N800	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.15	N600	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.16	N650	2022/11/25	2023/11/24
Wainwright	Band Reject Filter	WRCG2400/2485-2375/2510-60/11SS	10	2022/11/25	2023/11/24

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF conducted test					
Rohde&Schwarz	Spectrum Analyzer	FSV-40	101590	2022/11/25	2023/11/24
Tonscend	RF Control Unit	JS0806-2	19G8060182	2022/10/24	2023/10/23
WEINSCHL	10dB Attenuator	5324	AU 3842	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.31	RF-01	Each time	

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.247 (i), §1.1307 (b) (3) &§2.1093 – RF EXPOSURE**Applicable Standard**

According to FCC §2.1093 and §1.1307(b) (3), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D04 Interim General RF Exposure Guidance

1-mW Test Exemption:

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

For worst case:

For BLE:

Frequency (MHz)	Maximum Tune-up power		Exemption Limit (mW)	SAR Test Exclusion
	(dBm)	(mW)		
2402-2480	-1.5	0.71	1	Yes

Result: Compliant.

For Wi-Fi mode, please refer to SAR report: RA221125-56859E-SA.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 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 shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has one internal antenna which was permanently attached, and the maximum antenna gain is -2.0dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Transd Factor & Margin Calculation

The Transd factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Test Data

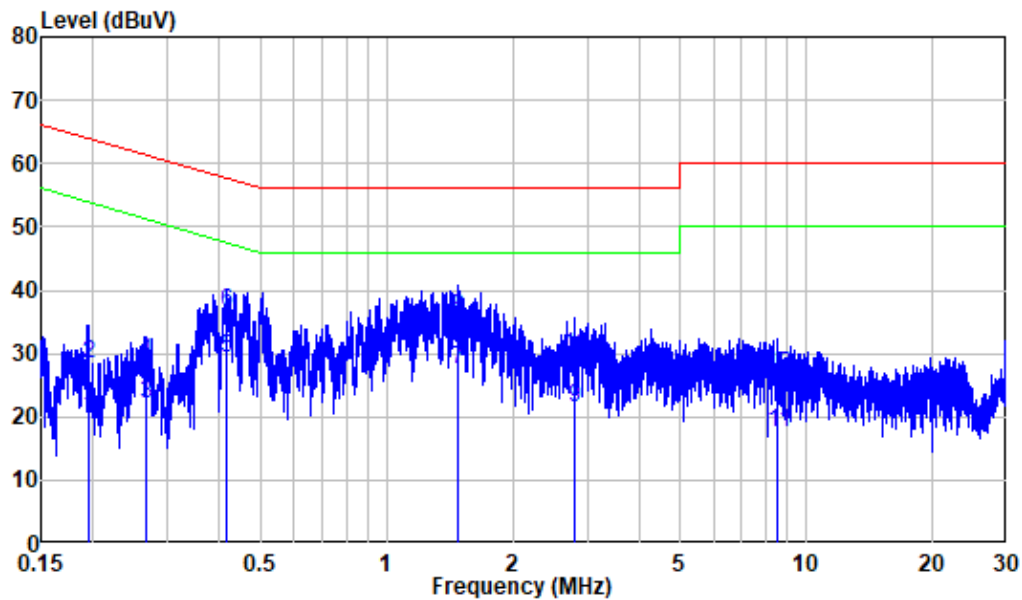
Environmental Conditions

Temperature:	21 °C
Relative Humidity:	42 %
ATM Pressure:	101.0 kPa

The testing was performed by Jason Liu on 2022-12-12.

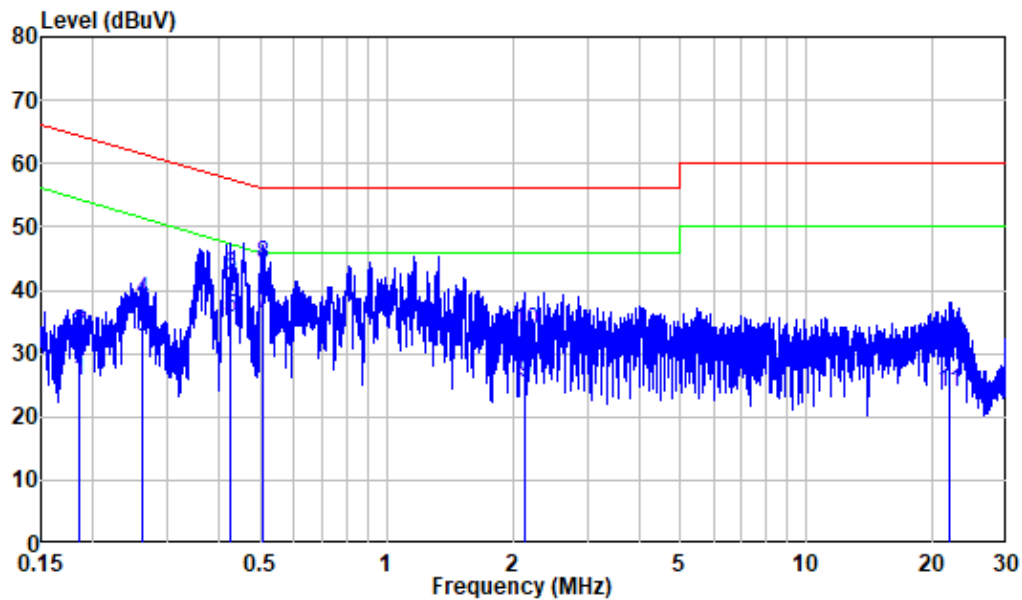
EUT operation mode: Transmitting (Worst case is 802.11b, low channel)

AC 120V/60 Hz, Line



Site : Shielding Room
 Condition: Line
 Job No. : RA221125-56859E-RF
 Mode : 2.4G WIFI
 Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.194	9.80	10.11	19.91	53.86	-33.95	Average
2	0.194	9.80	18.53	28.33	63.86	-35.53	QP
3	0.266	9.80	12.13	21.93	51.24	-29.31	Average
4	0.266	9.80	18.95	28.75	61.24	-32.49	QP
5	0.416	9.80	19.36	29.16	47.52	-18.36	Average
6	0.416	9.80	26.82	36.62	57.52	-20.90	QP
7	1.483	9.81	17.68	27.49	46.00	-18.51	Average
8	1.483	9.81	25.84	35.65	56.00	-20.35	QP
9	2.805	9.83	11.68	21.51	46.00	-24.49	Average
10	2.805	9.83	19.63	29.46	56.00	-26.54	QP
11	8.541	9.89	7.62	17.51	50.00	-32.49	Average
12	8.541	9.89	16.72	26.61	60.00	-33.39	QP

AC 120V/60 Hz, Neutral

Site : Shielding Room
 Condition: Neutral
 Job No. : RA221125-56859E-RF
 Mode : 2.4G WIFI
 Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.184	9.80	15.94	25.74	54.29	-28.55	Average
2	0.184	9.80	23.28	33.08	64.29	-31.21	QP
3	0.261	9.80	22.82	32.62	51.41	-18.79	Average
4	0.261	9.80	28.56	38.36	61.41	-23.05	QP
5	0.426	9.80	25.78	35.58	47.34	-11.76	Average
6	0.426	9.80	32.39	42.19	57.34	-15.15	QP
7	0.506	9.80	26.35	36.15	46.00	-9.85	Average
8	0.506	9.80	34.23	44.03	56.00	-11.97	QP
9	2.130	9.82	15.69	25.51	46.00	-20.49	Average
10	2.130	9.82	23.84	33.66	56.00	-22.34	QP
11	21.932	10.12	13.61	23.73	50.00	-26.27	Average
12	21.932	10.12	21.72	31.84	60.00	-28.16	QP

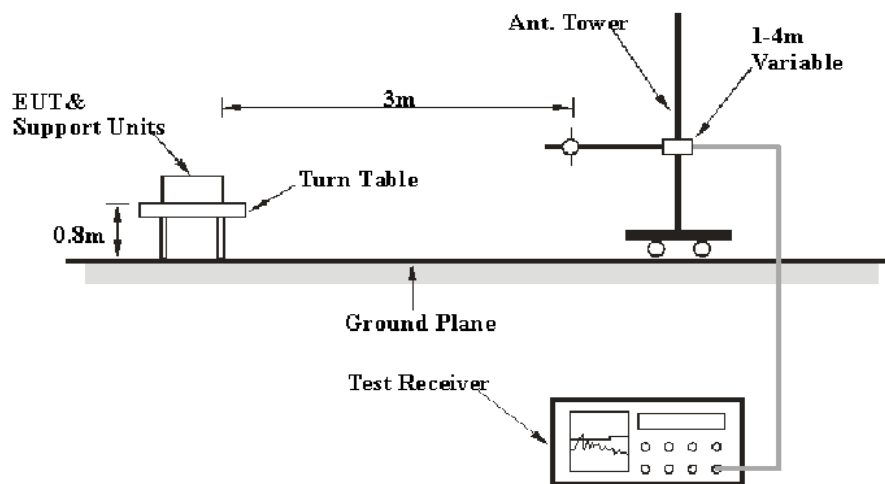
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

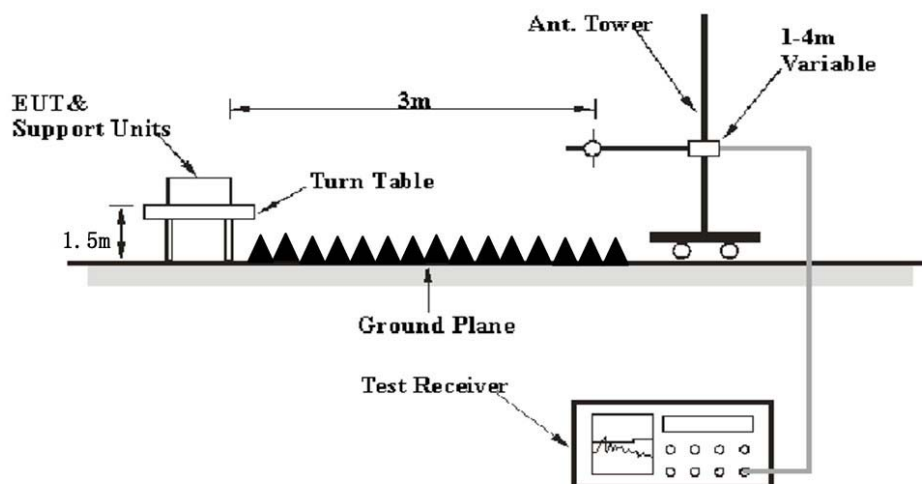
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz ^{Note 1}	/	Average
	1MHz	> 1/T ^{Note 2}	/	Average

Note 1: when duty cycle is no less than 98%

Note 2: when duty cycle is less than 98%

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Factor & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned} \text{Over Limit/Margin} &= \text{Level} / \text{Corrected Amplitude} - \text{Limit} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

Test Data

Environmental Conditions

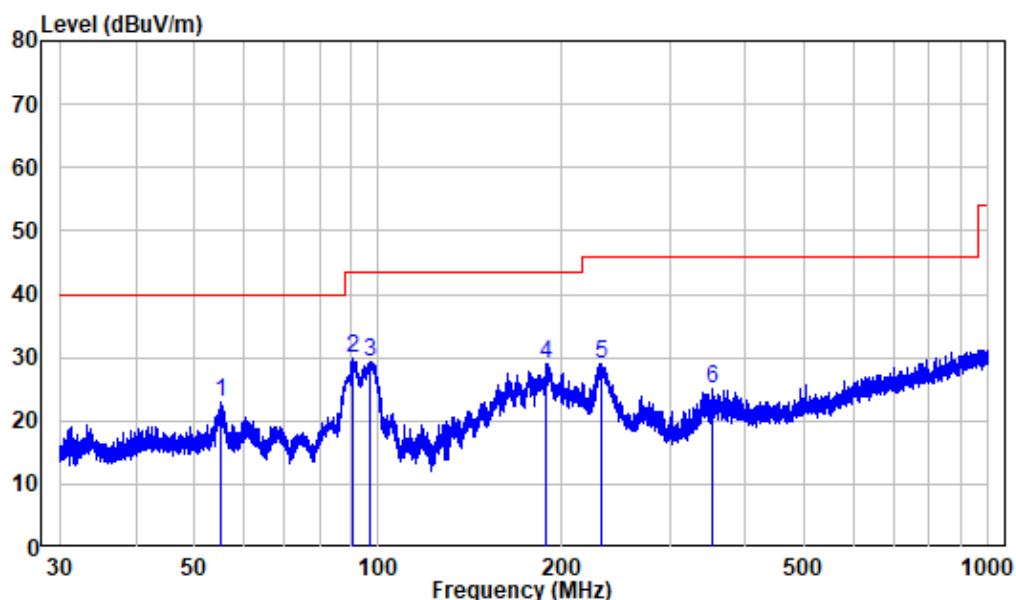
Temperature:	24~25.5°C
Relative Humidity:	52~55 %
ATM Pressure:	101.0 kPa

The testing was performed by Jimi Zheng on 2022-12-09 for below 1GHz and Level Li on 2022-11-29 for above 1GHz.

EUT operation mode: Transmitting (Pre-scan in the X,Y and Z axes of orientation, the worst case X-axes of orientation was recorded)

30MHz-1GHz: (Worst case is 802.11b, low channel)

Note: When the test result of peak was less than the limit of QP more than 6dB, just peak value were recorded.

Horizontal:

Site : chamber

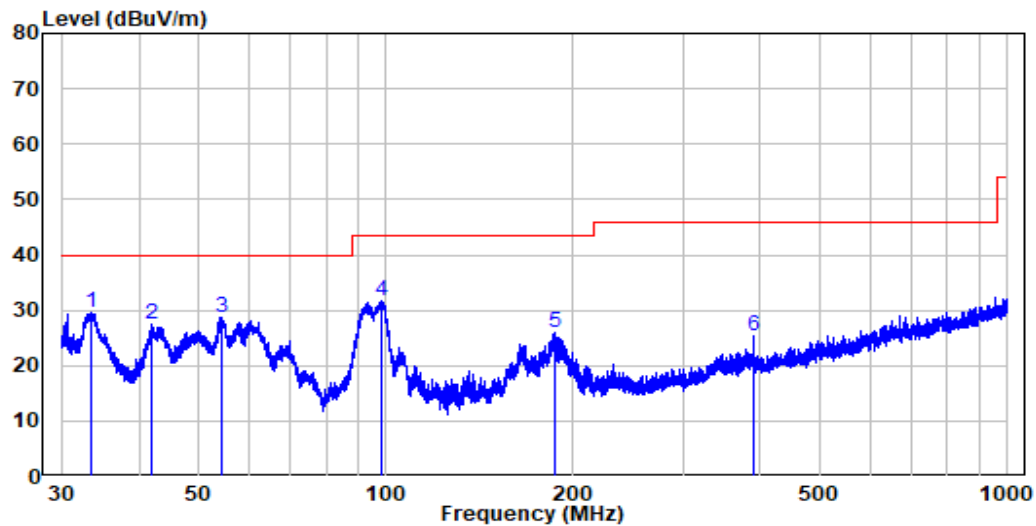
Condition: 3m HORIZONTAL

Job No. : RA221125-56859E-RF

Test Mode: 2.4G WIFI Transmitting

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	55.172	-10.26	33.10	22.84	40.00	-17.16	Peak
2	90.577	-13.81	43.68	29.87	43.50	-13.63	Peak
3	97.115	-12.27	41.61	29.34	43.50	-14.16	Peak
4	188.413	-11.78	40.83	29.05	43.50	-14.45	Peak
5	231.616	-11.06	40.15	29.09	46.00	-16.91	Peak
6	352.634	-7.40	32.51	25.11	46.00	-20.89	Peak

Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : RA221125-56859E-RF
 Test Mode: 2.4G WIFI Transmitting

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	33.621	-11.91	41.50	29.59	40.00	-10.41	Peak
2	42.043	-10.02	37.34	27.32	40.00	-12.68	Peak
3	54.499	-10.32	39.05	28.73	40.00	-11.27	Peak
4	98.357	-12.17	44.02	31.85	43.50	-11.65	Peak
5	186.604	-11.98	37.79	25.81	43.50	-17.69	Peak
6	390.038	-6.89	32.24	25.35	46.00	-20.65	Peak

1-25 GHz:**BLE:**

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
Low Channel(2402MHz)									
2310	61.36	PK	5	2	H	-7.24	54.12	74	-19.88
2310	48.11	AV	5	2	H	-7.24	40.87	54	-13.13
2310	61.23	PK	20	1.3	V	-7.24	53.99	74	-20.01
2310	47.97	AV	20	1.3	V	-7.24	40.73	54	-13.27
2390	63.87	PK	0	2.1	H	-7.22	56.65	74	-17.35
2390	49.34	AV	0	2.1	H	-7.22	42.12	54	-11.88
2390	63.75	PK	331	2.3	V	-7.22	56.53	74	-17.47
2390	49.21	AV	331	2.3	V	-7.22	41.99	54	-12.01
4804	57.69	PK	171	1.3	H	-3.51	54.18	74	-19.82
4804	42.60	AV	171	1.3	H	-3.51	39.09	54	-14.91
4804	57.51	PK	122	1.5	V	-3.51	54.00	74	-20.00
4804	42.48	AV	122	1.5	V	-3.51	38.97	54	-15.03
Middle Channel (2440MHz)									
4880	57.55	PK	91	2.1	H	-3.38	54.17	74	-19.83
4880	42.52	AV	91	2.1	H	-3.38	39.14	54	-14.86
4880	57.38	PK	228	2	V	-3.38	54	74	-20.00
4880	42.40	AV	228	2	V	-3.38	39.02	54	-14.98
High Channel (2480MHz)									
2483.5	64.92	PK	43	2.1	H	-7.20	57.72	74	-16.28
2483.5	49.96	AV	43	2.1	H	-7.20	42.76	54	-11.24
2483.5	64.79	PK	264	1.4	V	-7.20	57.59	74	-16.41
2483.5	49.85	AV	264	1.4	V	-7.20	42.65	54	-11.35
2500	62.58	PK	185	1.5	H	-7.18	55.4	74	-18.60
2500	49.42	AV	185	1.5	H	-7.18	42.24	54	-11.76
2500	62.46	PK	118	1.7	V	-7.18	55.28	74	-18.72
2500	49.31	AV	118	1.7	V	-7.18	42.13	54	-11.87
4960	56.87	PK	112	2.2	H	-3.01	53.86	74	-20.14
4960	41.76	AV	112	2.2	H	-3.01	38.75	54	-15.25
4960	56.70	PK	29	1.4	V	-3.01	53.69	74	-20.31
4960	41.53	AV	29	1.4	V	-3.01	38.52	54	-15.48

Wi-Fi:

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11b									
Low Channel(2412MHz)									
2310	60.76	PK	333	1.2	H	-7.24	53.52	74	-20.48
2310	46.92	AV	333	1.2	H	-7.24	39.68	54	-14.32
2310	60.88	PK	192	1.7	V	-7.24	53.64	74	-20.36
2310	47.03	AV	192	1.7	V	-7.24	39.79	54	-14.21
2390	63.58	PK	187	1.5	H	-7.22	56.36	74	-17.64
2390	49.01	AV	187	1.5	H	-7.22	41.79	54	-12.21
2390	63.72	PK	302	2.3	V	-7.22	56.50	74	-17.50
2390	49.14	AV	302	2.3	V	-7.22	41.92	54	-12.08
4824	57.84	PK	34	2.2	H	-3.52	54.32	74	-19.68
4824	42.55	AV	34	2.2	H	-3.52	39.03	54	-14.97
4824	57.62	PK	139	2.2	V	-3.52	54.10	74	-19.90
4824	42.01	AV	139	2.2	V	-3.52	38.49	54	-15.51
Middle Channel(2442MHz)									
4884	58.14	PK	177	1.4	H	-3.36	54.78	74	-19.22
4884	43.37	AV	177	1.4	H	-3.36	40.01	54	-13.99
4884	57.46	PK	76	2.4	V	-3.36	54.1	74	-19.90
4884	41.73	AV	76	2.4	V	-3.36	38.37	54	-15.63
High Channel(2472 MHz)									
2483.5	68.73	PK	241	1.4	H	-7.20	61.53	74	-12.47
2483.5	57.86	AV	241	1.4	H	-7.20	50.66	54	-3.34
2483.5	69.71	PK	64	2.3	V	-7.20	62.51	74	-11.49
2483.5	59.40	AV	64	2.3	V	-7.20	52.2	54	-1.80
2500	62.30	PK	253	1.3	H	-7.18	55.12	74	-18.88
2500	49.67	AV	253	1.3	H	-7.18	42.49	54	-11.51
2500	62.42	PK	348	1.5	V	-7.18	55.24	74	-18.76
2500	49.81	AV	348	1.5	V	-7.18	42.63	54	-11.37
4944	58.22	PK	154	2.3	H	-3.07	55.15	74	-18.85
4944	43.35	AV	154	2.3	H	-3.07	40.28	54	-13.72
4944	57.06	PK	303	1.5	V	-3.07	53.99	74	-20.01
4944	41.31	AV	303	1.5	V	-3.07	38.24	54	-15.76

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11g									
Low Channel(2412MHz)									
2310	61.32	PK	18	1.5	H	-7.24	54.08	74	-19.92
2310	48.26	AV	18	1.5	H	-7.24	41.02	54	-12.98
2310	61.44	PK	201	2.5	V	-7.24	54.20	74	-19.80
2310	48.38	AV	201	2.5	V	-7.24	41.14	54	-12.86
2390	65.27	PK	90	1.8	H	-7.22	58.05	74	-15.95
2390	50.12	AV	90	1.8	H	-7.22	42.90	54	-11.10
2390	65.40	PK	334	2.1	V	-7.22	58.18	74	-15.82
2390	50.24	AV	334	2.1	V	-7.22	43.02	54	-10.98
4824	58.41	PK	208	2.3	H	-3.52	54.89	74	-19.11
4824	43.15	AV	208	2.3	H	-3.52	39.63	54	-14.37
4824	58.20	PK	104	1.6	V	-3.52	54.68	74	-19.32
4824	42.99	AV	104	1.6	V	-3.52	39.47	54	-14.53
Middle Channel(2442MHz)									
4884	58.08	PK	54	2.2	H	-3.36	54.72	74	-19.28
4884	42.81	AV	54	2.2	H	-3.36	39.45	54	-14.55
4884	57.77	PK	36	1.2	V	-3.36	54.41	74	-19.59
4884	42.66	AV	36	1.2	V	-3.36	39.3	54	-14.70
High Channel(2472 MHz)									
2483.5	78.14	PK	71	1.9	H	-7.20	70.94	74	-3.06
2483.5	57.66	AV	71	1.9	H	-7.20	50.46	54	-3.54
2483.5	79.15	PK	284	2.3	V	-7.20	71.95	74	-2.05
2483.5	58.37	AV	284	2.3	V	-7.20	51.17	54	-2.83
2500	62.39	PK	163	1.6	H	-7.18	55.21	74	-18.79
2500	50.31	AV	163	1.6	H	-7.18	43.13	54	-10.87
2500	62.57	PK	354	2.3	V	-7.18	55.39	74	-18.61
2500	50.46	AV	354	2.3	V	-7.18	43.28	54	-10.72
4944	57.17	PK	355	2.2	H	-3.07	54.10	74	-19.90
4944	42.11	AV	355	2.2	H	-3.07	39.04	54	-14.96
4944	56.95	PK	230	2.1	V	-3.07	53.88	74	-20.12
4944	41.96	AV	230	2.1	V	-3.07	38.89	54	-15.11

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11n20									
Low Channel(2412MHz)									
2310	61.42	PK	200	1.4	H	-7.24	54.18	74	-19.82
2310	48.34	AV	200	1.4	H	-7.24	41.10	54	-12.90
2310	61.55	PK	326	2	V	-7.24	54.31	74	-19.69
2310	48.48	AV	326	2	V	-7.24	41.24	54	-12.76
2390	65.43	PK	38	1.1	H	-7.22	58.21	74	-15.79
2390	50.22	AV	38	1.1	H	-7.22	43.00	54	-11.00
2390	65.55	PK	265	1.5	V	-7.22	58.33	74	-15.67
2390	50.31	AV	265	1.5	V	-7.22	43.09	54	-10.91
4824	58.24	PK	104	1.5	H	-3.52	54.72	74	-19.28
4824	43.11	AV	104	1.5	H	-3.52	39.59	54	-14.41
4824	58.02	PK	315	1.1	V	-3.52	54.50	74	-19.50
4824	42.93	AV	315	1.1	V	-3.52	39.41	54	-14.59
Middle Channel(2442MHz)									
4884	58.00	PK	259	1.1	H	-3.36	54.64	74	-19.36
4884	42.71	AV	259	1.1	H	-3.36	39.35	54	-14.65
4884	57.76	PK	238	2	V	-3.36	54.4	74	-19.60
4884	42.54	AV	238	2	V	-3.36	39.18	54	-14.82
High Channel(2472 MHz)									
2483.5	76.99	PK	264	1	H	-7.20	69.79	74	-4.21
2483.5	58.10	AV	264	1	H	-7.20	50.9	54	-3.10
2483.5	78.13	PK	214	1.6	V	-7.20	70.93	74	-3.07
2483.5	58.78	AV	214	1.6	V	-7.20	51.58	54	-2.42
2500	62.35	PK	252	2	H	-7.18	55.17	74	-18.83
2500	50.22	AV	252	2	H	-7.18	43.04	54	-10.96
2500	62.48	PK	17	2.1	V	-7.18	55.3	74	-18.70
2500	50.34	AV	17	2.1	V	-7.18	43.16	54	-10.84
4944	57.42	PK	179	1.3	H	-3.07	54.35	74	-19.65
4944	42.21	AV	179	1.3	H	-3.07	39.14	54	-14.86
4944	57.28	PK	21	2.4	V	-3.07	54.21	74	-19.79
4944	42.06	AV	21	2.4	V	-3.07	38.99	54	-15.01

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

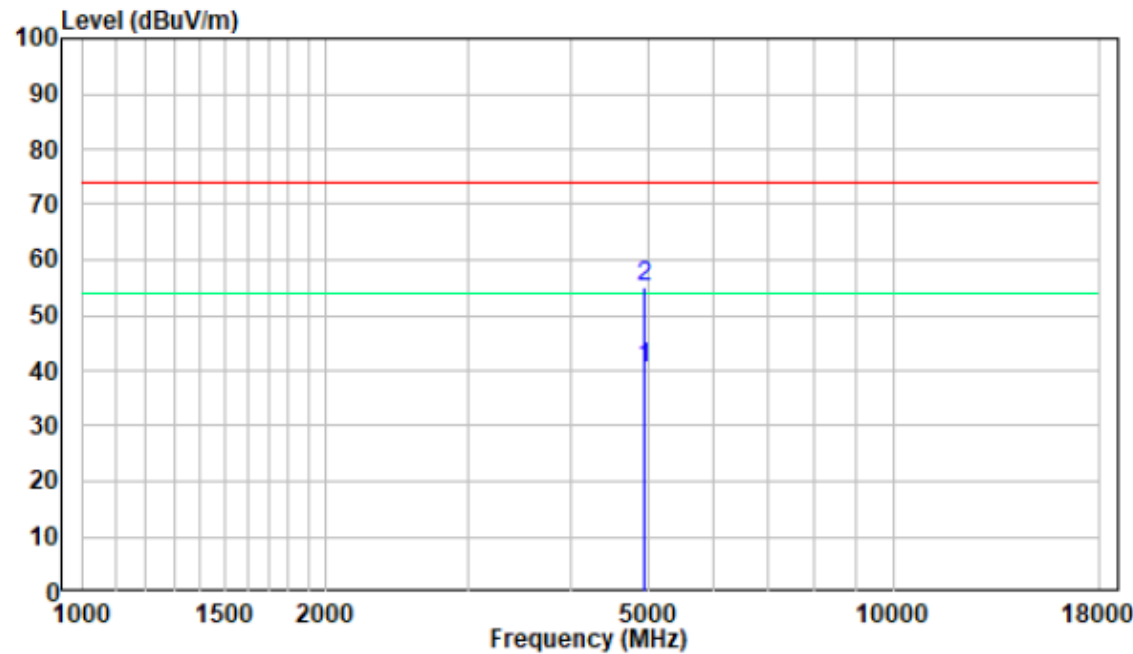
Margin = Corrected. Amplitude - Limit

The other spurious emission which is in the noise floor level was not recorded.

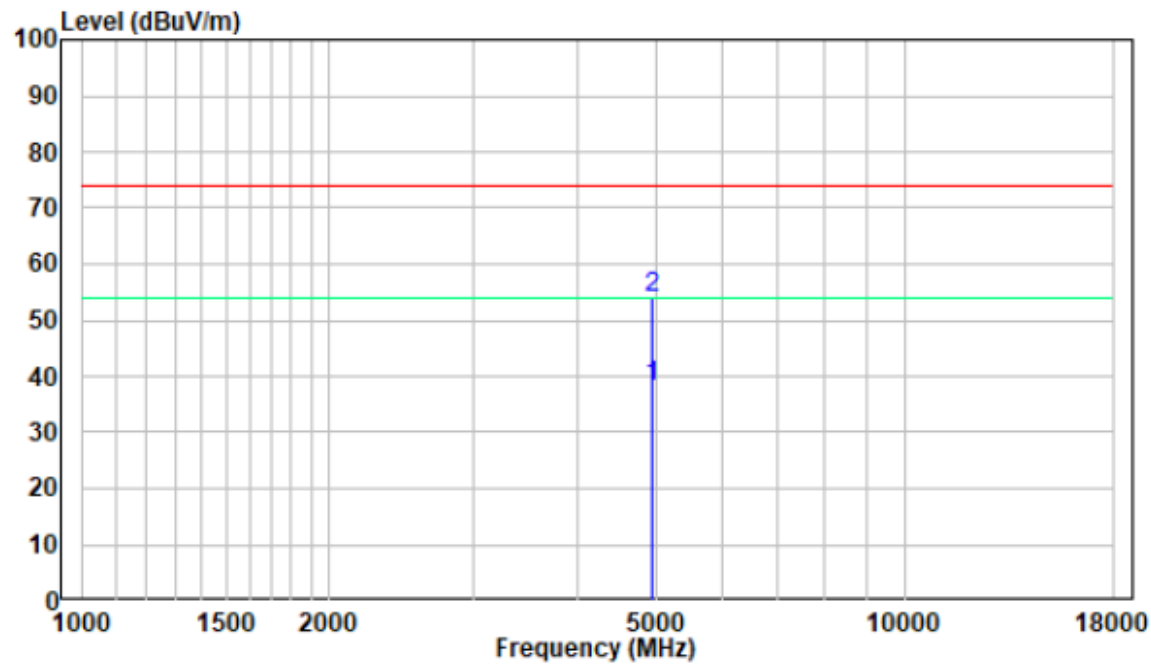
1-18 GHz:

Pre-scan for 802.11b, High Channel

Horizontal



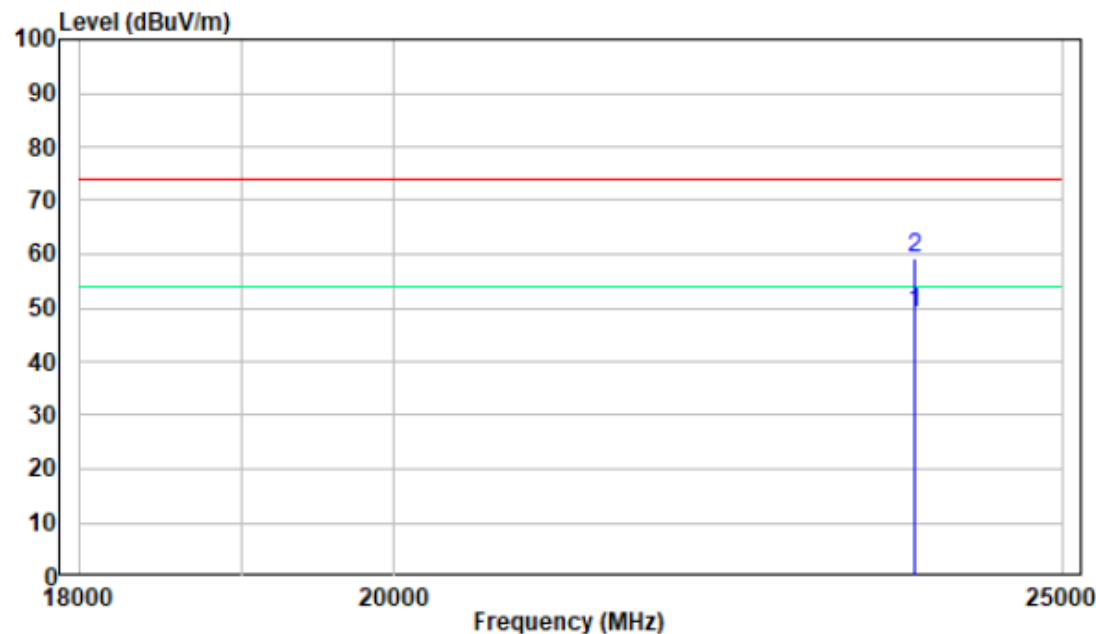
Vertical



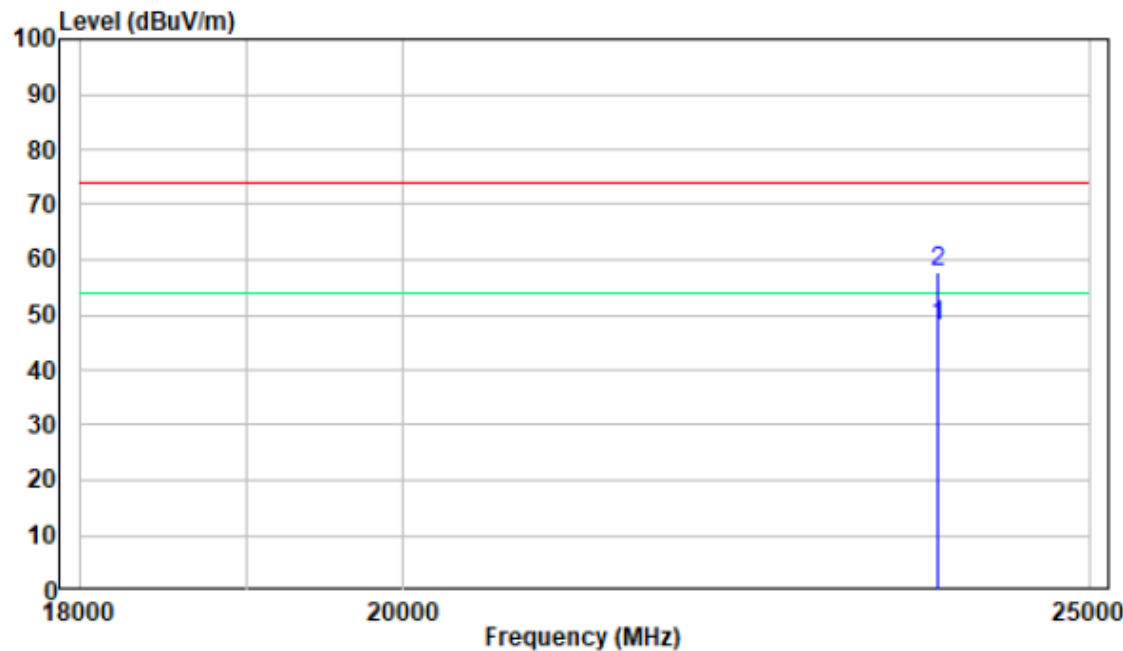
18 -25GHz:

Pre-scan for 802.11b, High Channel

Horizontal



Vertical



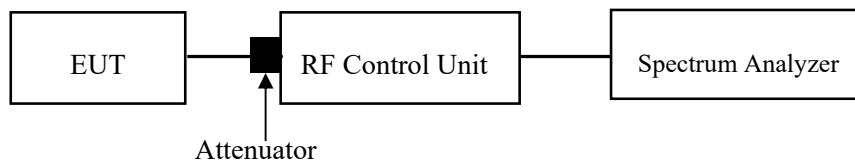
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	24~25 °C
Relative Humidity:	50-52 %
ATM Pressure:	101.0 kPa

The testing was performed by Glenn Jiang on 2022-11-30 and 2022-12-14.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix Wi-Fi and Appendix BLE.

FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

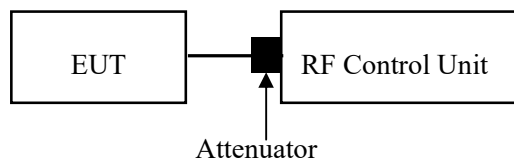
Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

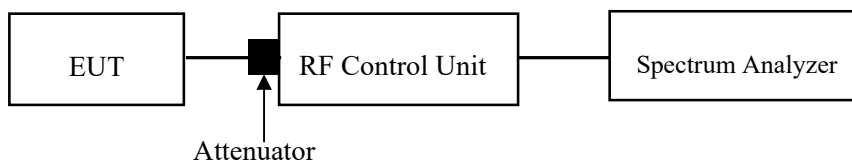
1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.

For wifi mode:



Note: the RF control unit has a built-in power sensor.

For BLE mode:



Test Data

Environmental Conditions

Temperature:	24~25 °C
Relative Humidity:	50-52 %
ATM Pressure:	101.0 kPa

The testing was performed by Glenn Jiang on 2022-11-30 and 2023-01-10.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix Wi-Fi and Appendix BLE.

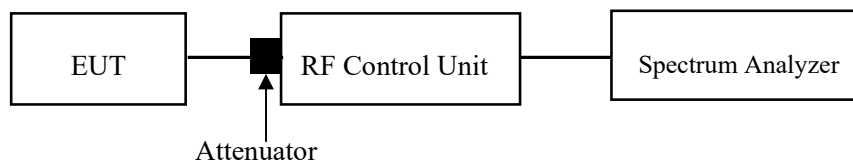
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

Temperature:	24~25 °C
Relative Humidity:	50-52 %
ATM Pressure:	101.0 kPa

The testing was performed by Glenn Jiang on 2022-11-30 and 2022-12-14.

EUT operation mode: Transmitting

Test Result: Compliant.

Conducted Band Edge Result:

Please refer to the Appendix Wi-Fi and Appendix BLE.

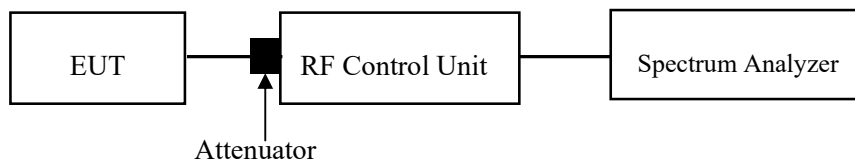
FCC §15.247(e) – POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
3. Set the VBW $\geq 3 \times \text{RBW}$.
4. Set the span to 1.5 times the DTS bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

Temperature:	24~25 °C
Relative Humidity:	50-52 %
ATM Pressure:	101.0 kPa

The testing was performed by Glenn Jiang on 2022-11-30 and 2023-01-10.

EUT operation mode: Transmitting

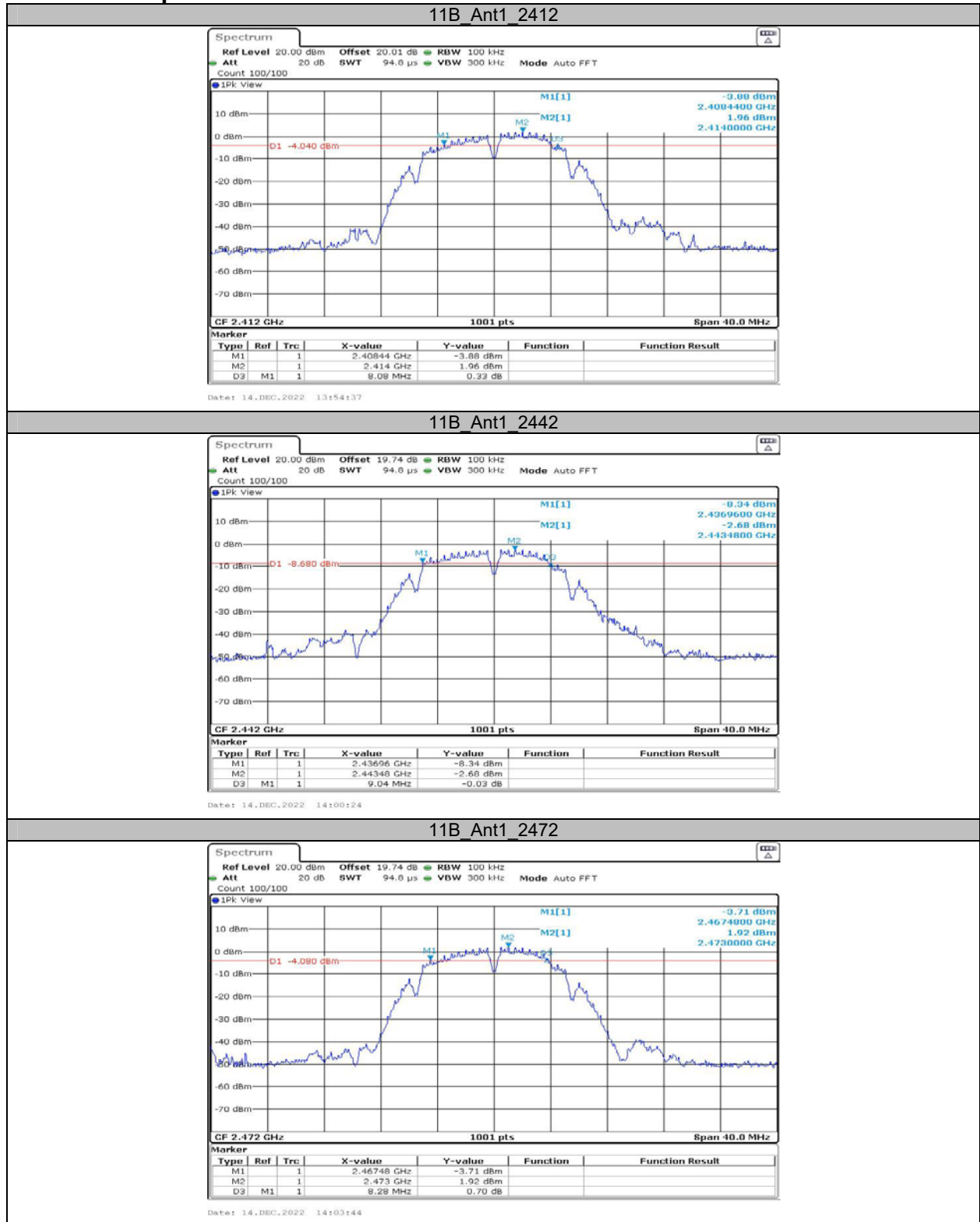
Test Result: Compliant. Please refer to the Appendix Wi-Fi and Appendix BLE.

APPENDIX Wi-Fi

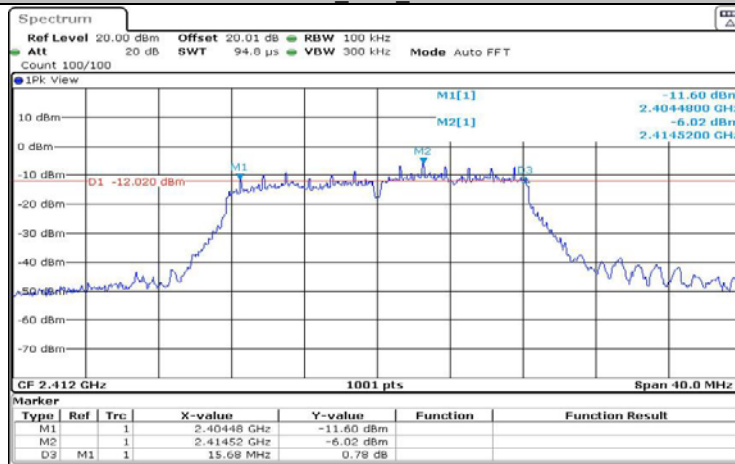
Appendix A: DTS Bandwidth Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.08	2408.44	2416.52	0.5	PASS
		2442	9.04	2436.96	2446.00	0.5	PASS
		2472	8.28	2467.48	2475.76	0.5	PASS
11G	Ant1	2412	15.68	2404.48	2420.16	0.5	PASS
		2442	15.76	2433.80	2449.56	0.5	PASS
		2472	15.04	2464.48	2479.52	0.5	PASS
11N20SISO	Ant1	2412	15.08	2405.68	2420.76	0.5	PASS
		2442	16.36	2433.20	2449.56	0.5	PASS
		2472	15.04	2464.48	2479.52	0.5	PASS

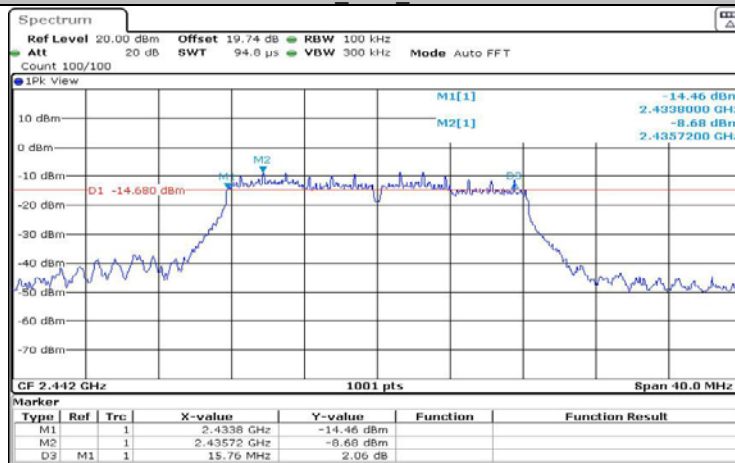
Test Graphs



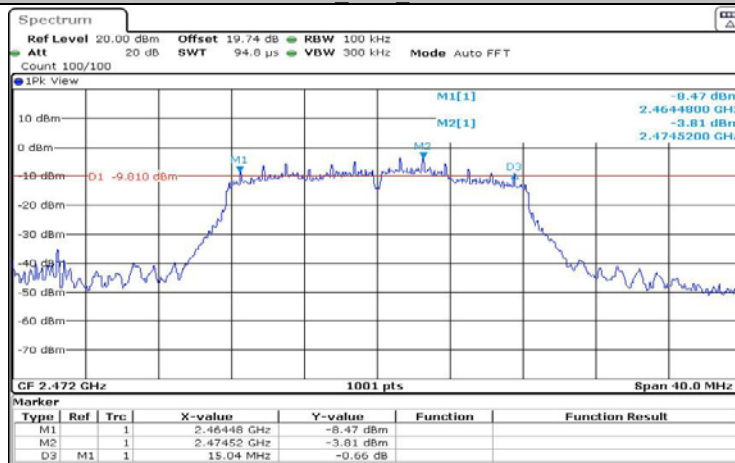
11G_Ant1_2412



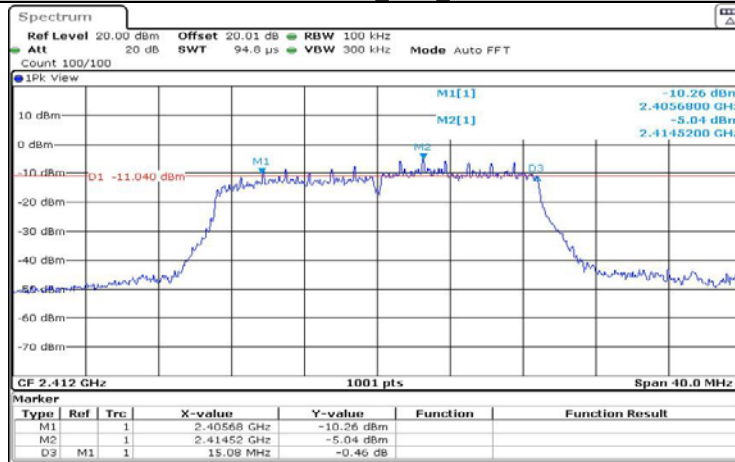
11G_Ant1_2442



11G_Ant1_2472

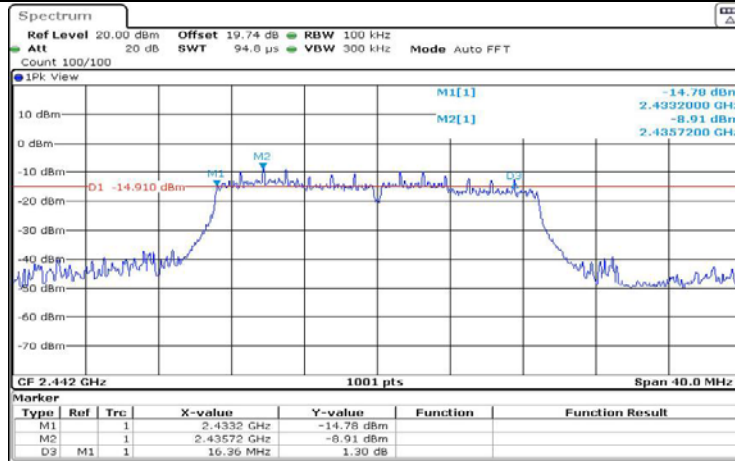


11N20SISO Ant1 2412



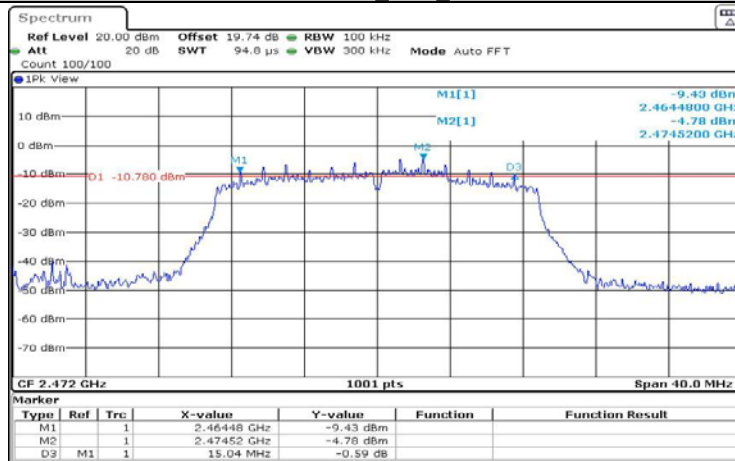
Date: 14, DEC, 2022 14:15:01

11N20SISO Ant1 2442



Date: 14, DEC, 2022 14:18:10

11N20SISO Ant1 2472

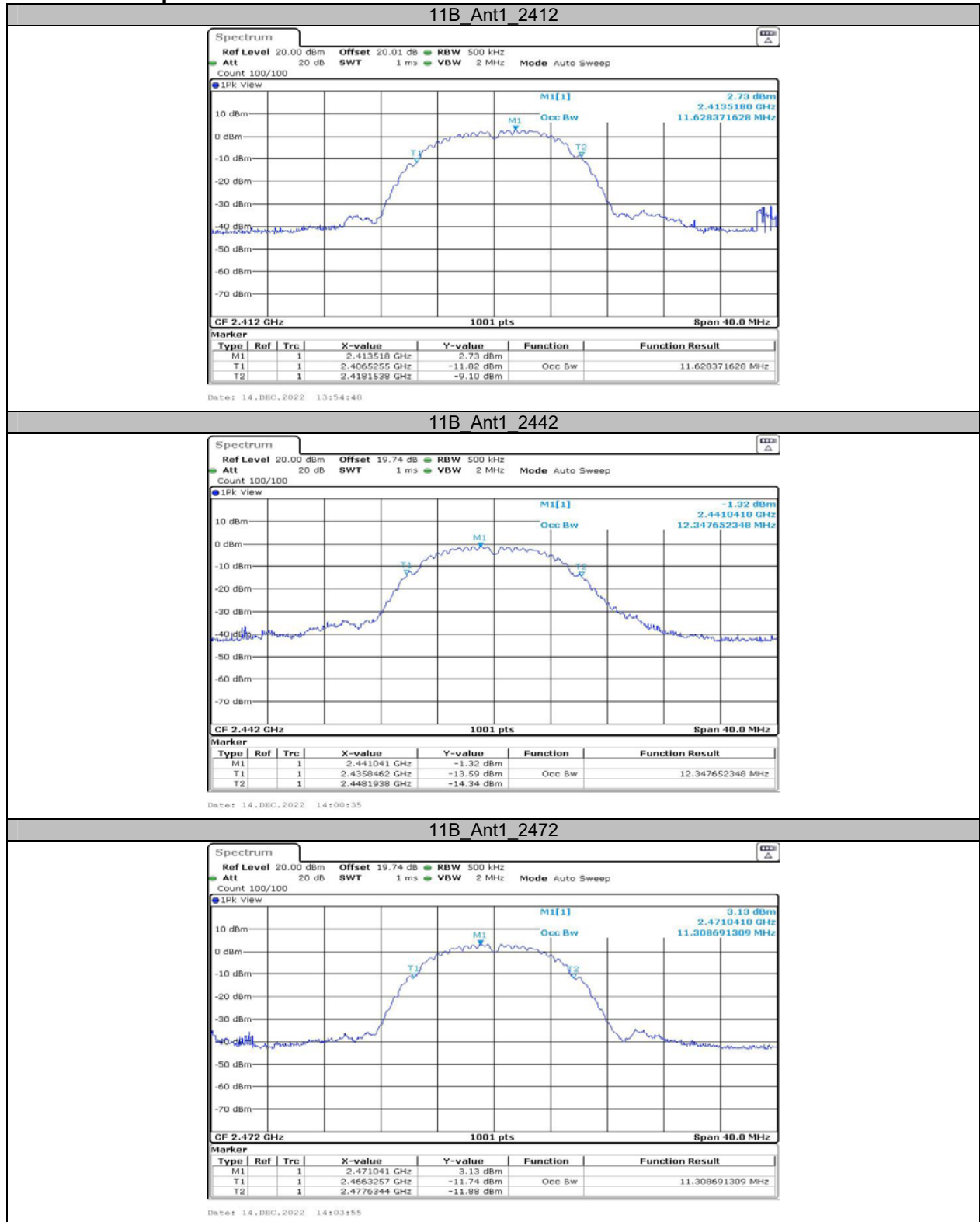


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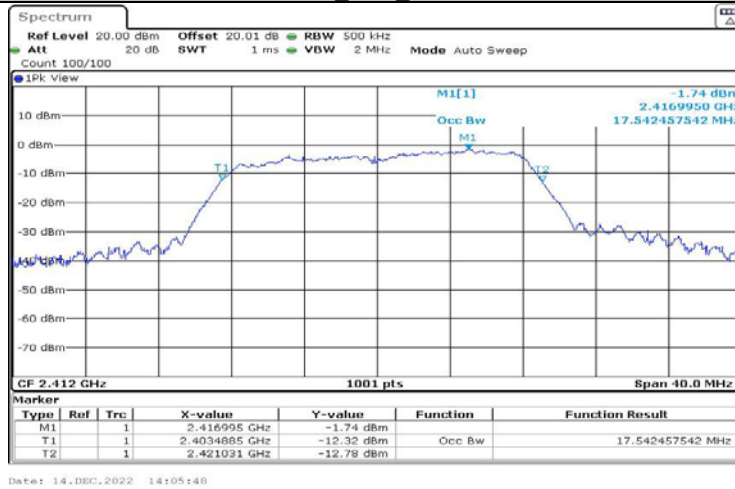
**Appendix B: Occupied Channel Bandwidth
Test Result**

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.628	2406.525	2418.154	---	---
		2442	12.348	2435.846	2448.194	---	---
		2472	11.309	2466.326	2477.634	---	---
11G	Ant1	2412	17.542	2403.489	2421.031	---	---
		2442	17.902	2432.809	2450.711	---	---
		2472	17.103	2463.369	2480.472	---	---
11N20SISO	Ant1	2412	18.222	2403.169	2421.391	---	---
		2442	18.541	2432.569	2451.111	---	---
		2472	17.902	2463.049	2480.951	---	---

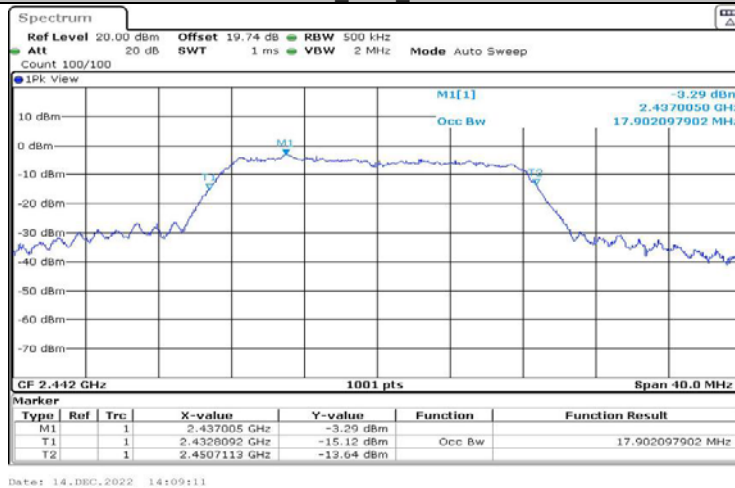
Test Graphs



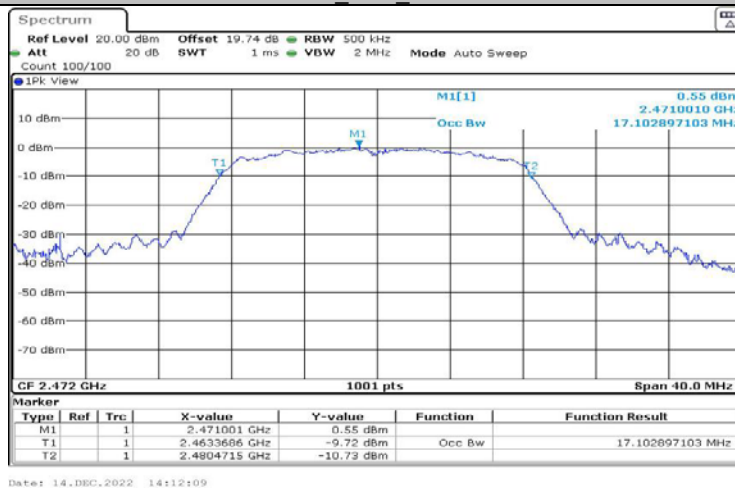
11G_Ant1_2412



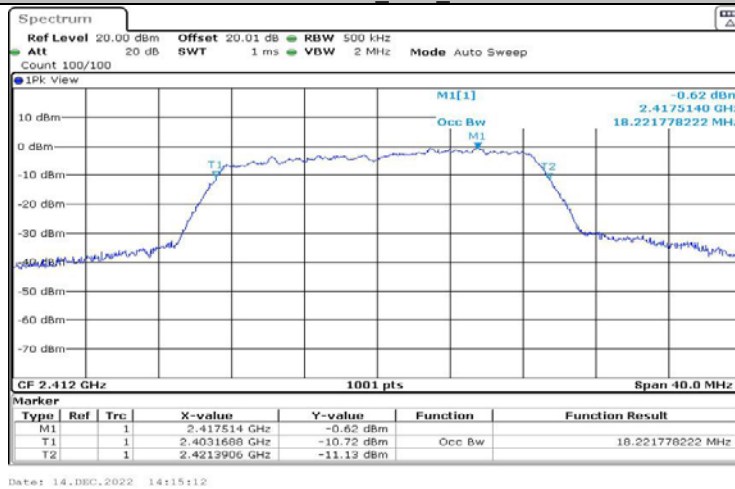
11G_Ant1_2442



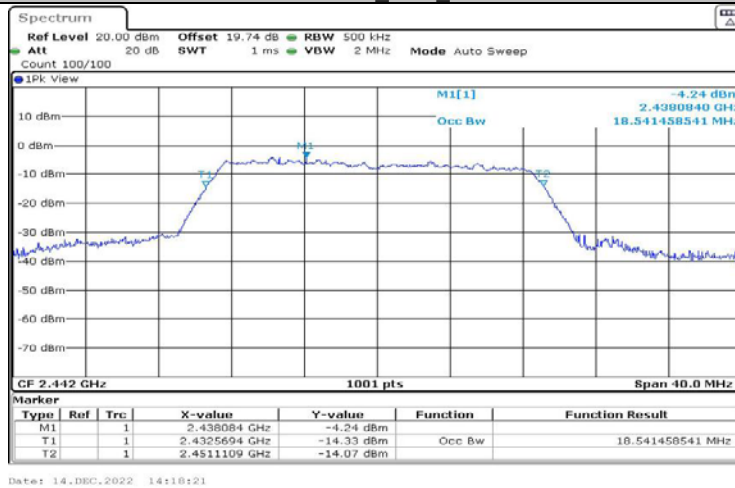
11G_Ant1_2472



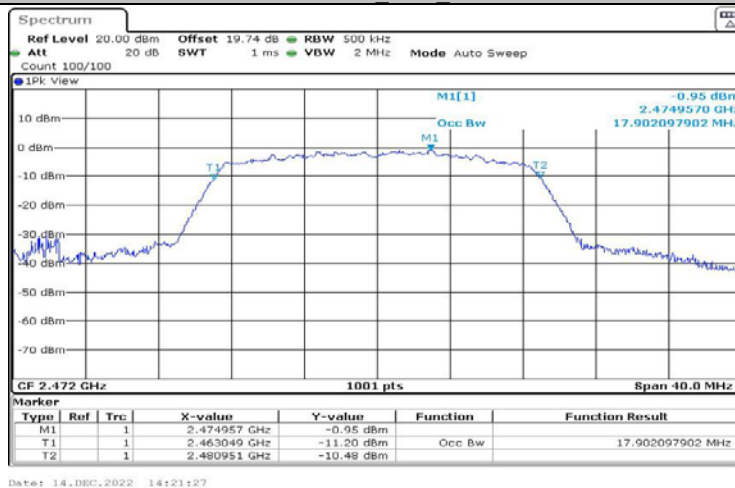
11N20SISO Ant1 2412



11N20SISO Ant1 2442



11N20SISO Ant1 2472



Appendix C: Maximum conducted output power**Test Result**

Test Mode	Antenna	Frequency[MHz]	Peak Power [dBm]	Conducted Limit [dBm]	Verdict
11B	Ant1	2412	13.80	≤30.00	PASS
		2442	12.11	≤30.00	PASS
		2472	14.81	≤30.00	PASS
11G	Ant1	2412	12.99	≤30.00	PASS
		2442	11.99	≤30.00	PASS
		2472	11.24	≤30.00	PASS
11N20SISO	Ant1	2412	11.86	≤30.00	PASS
		2442	11.02	≤30.00	PASS
		2472	12.93	≤30.00	PASS

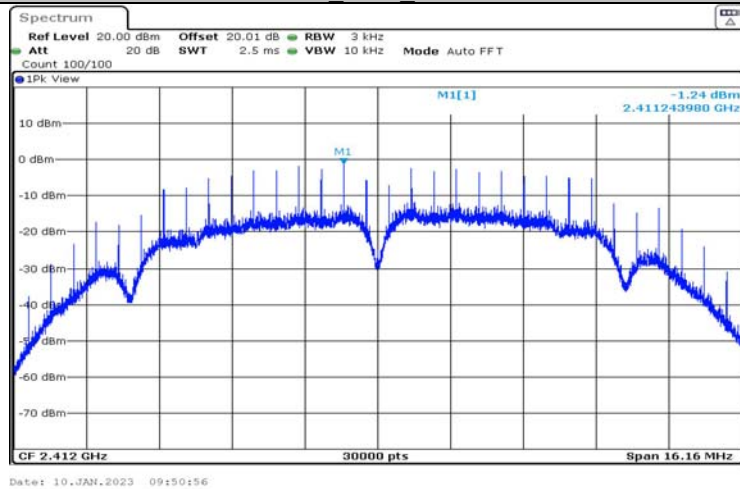
Test Mode	Antenna	Frequency[MHz]	Average Power [dBm]	Conducted Limit [dBm]	Verdict
11B	Ant1	2412	10.83	≤30.00	PASS
		2442	9.16	≤30.00	PASS
		2472	11.04	≤30.00	PASS
11G	Ant1	2412	5.60	≤30.00	PASS
		2442	4.95	≤30.00	PASS
		2472	3.96	≤30.00	PASS
11N20SISO	Ant1	2412	4.46	≤30.00	PASS
		2442	3.58	≤30.00	PASS
		2472	5.46	≤30.00	PASS

**Appendix D: Maximum power spectral density
Test Result**

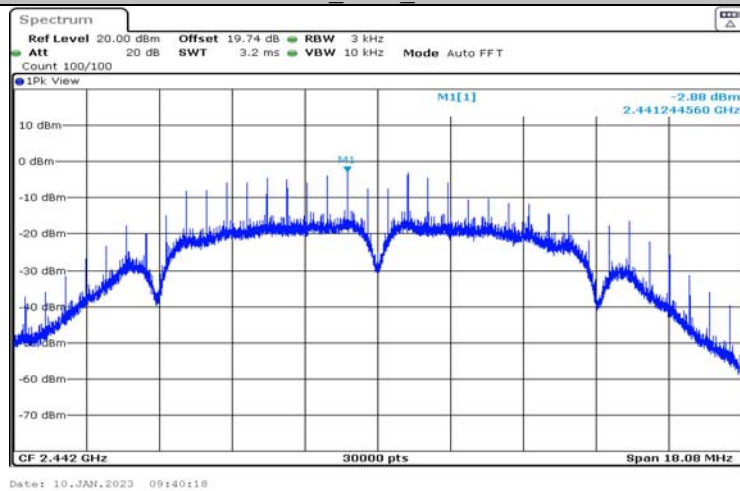
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-1.24	≤8.00	PASS
		2442	-2.88	≤8.00	PASS
		2472	-0.48	≤8.00	PASS
11G	Ant1	2412	-16.84	≤8.00	PASS
		2442	-17.87	≤8.00	PASS
		2472	-18.71	≤8.00	PASS
11N20SISO	Ant1	2412	-18.52	≤8.00	PASS
		2442	-19.38	≤8.00	PASS
		2472	-17.75	≤8.00	PASS

Test Graphs

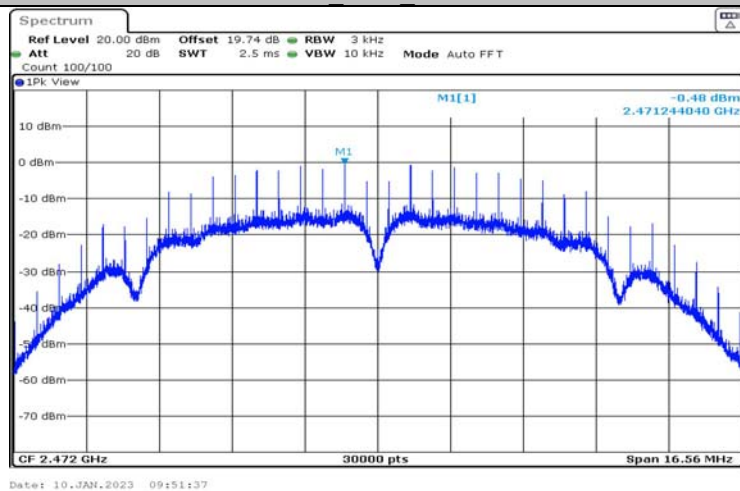
11B Ant1 2412



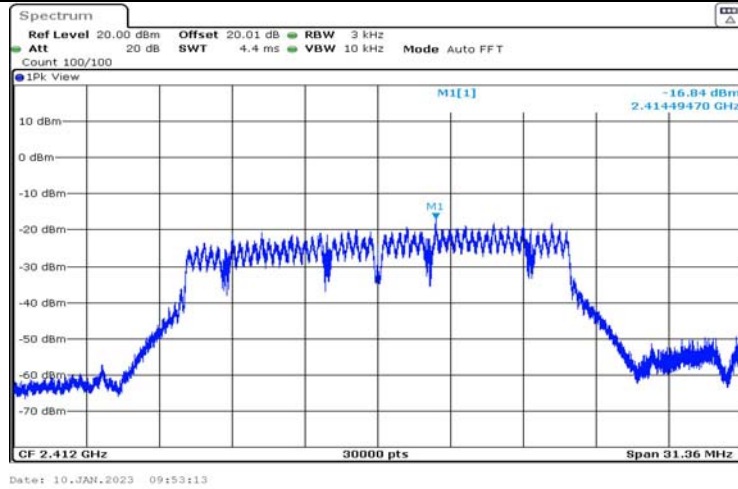
11B Ant1 2442



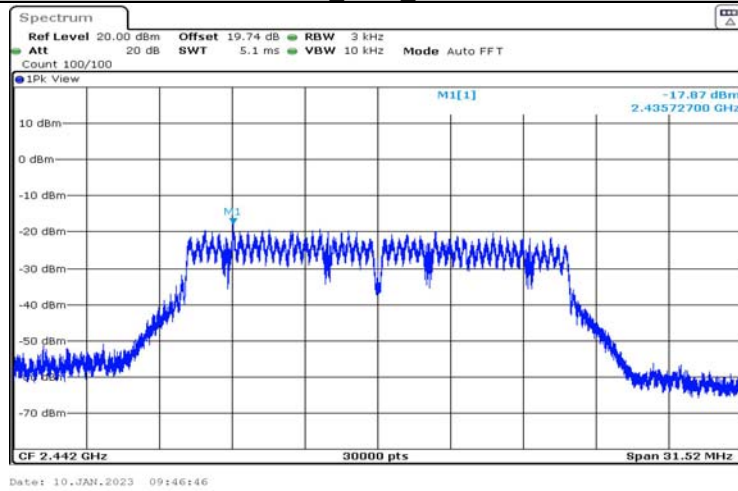
11B Ant1 2472



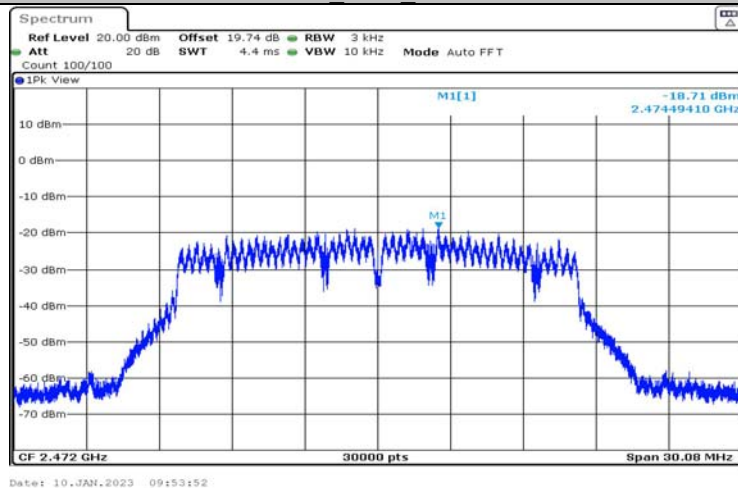
11G Ant1 2412



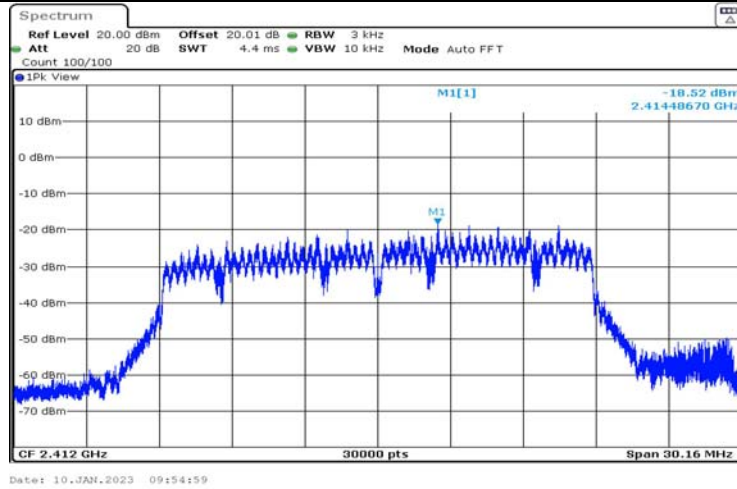
11G Ant1 2442



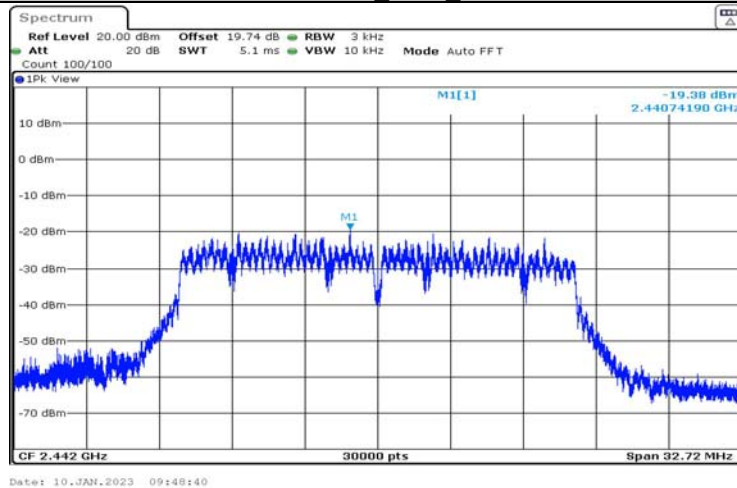
11G Ant1 2472



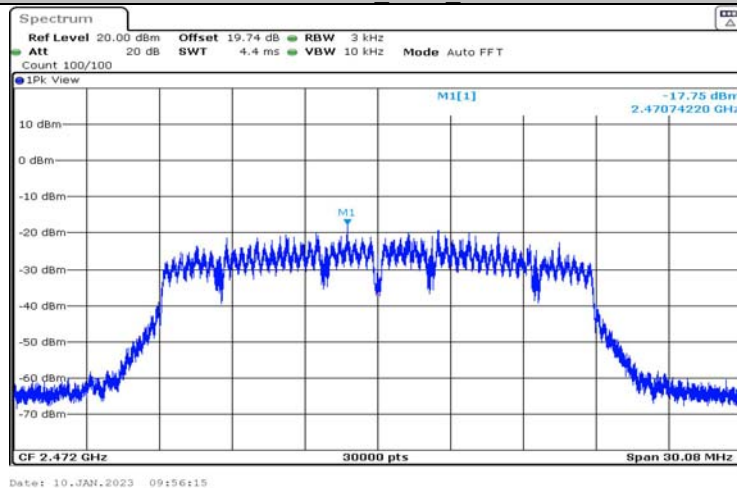
11N20SISO Ant1 2412



11N20SISO Ant1 2442

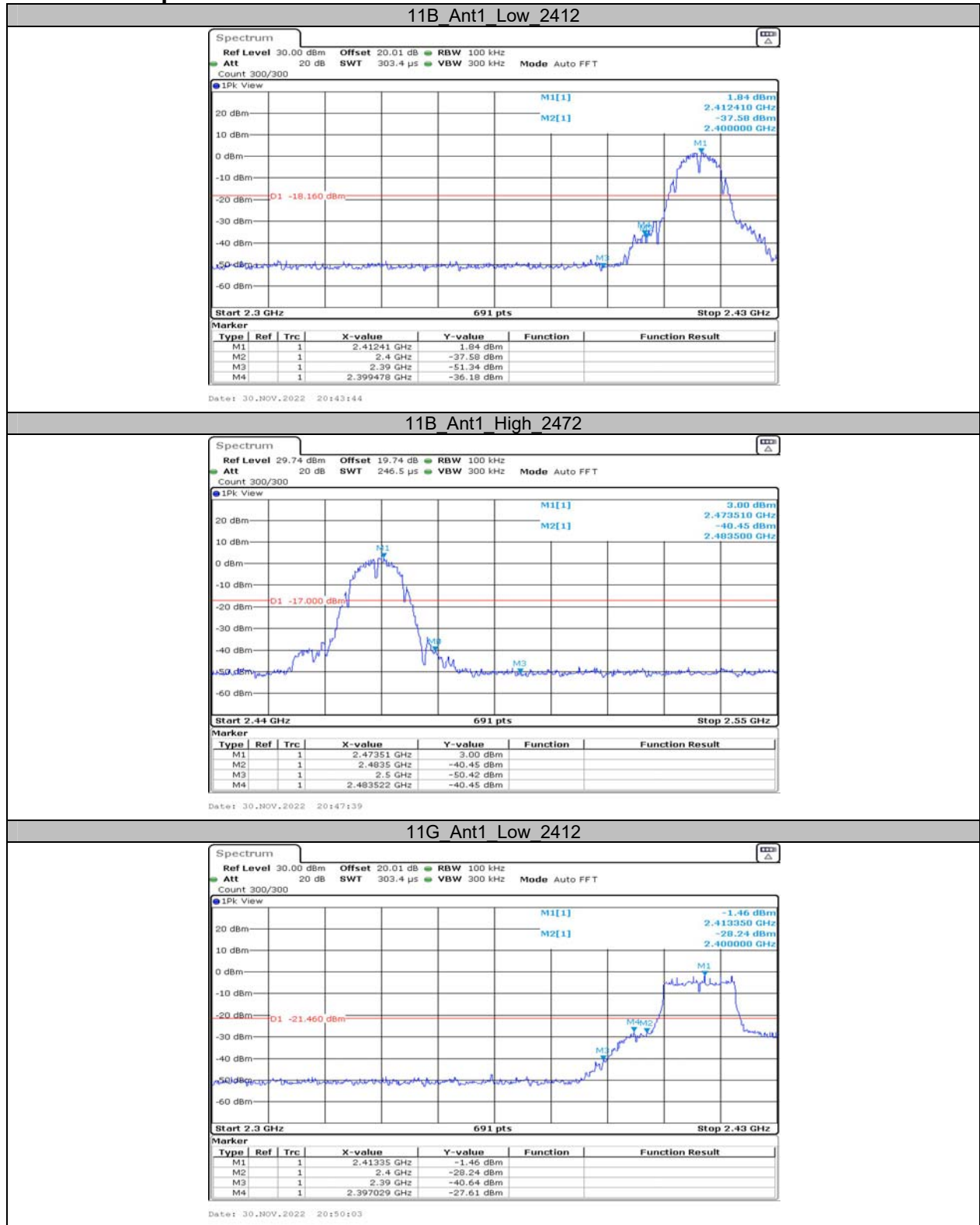


11N20SISO Ant1 2472



Appendix E: Band edge measurements

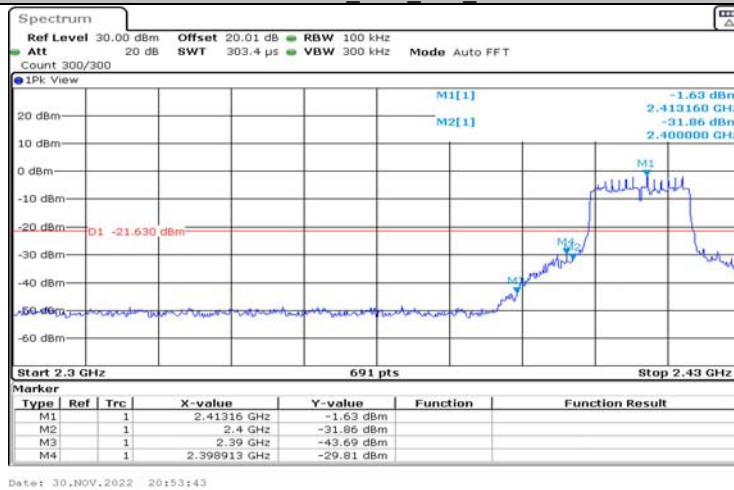
Test Graphs



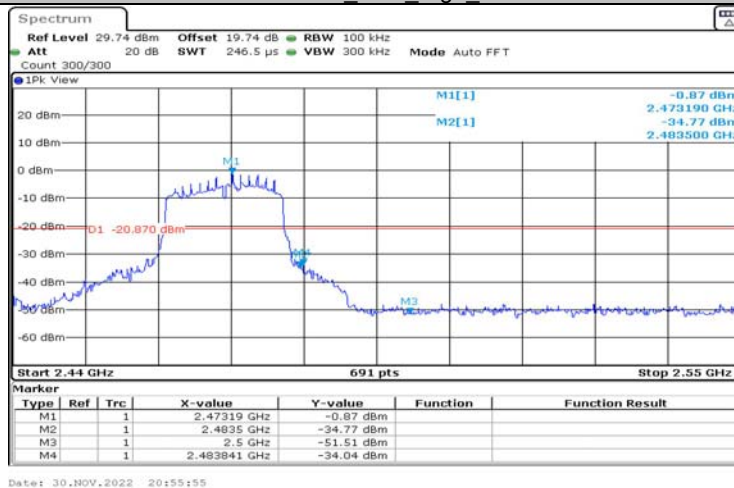
11G Ant1 High 2472



11N20SISO Ant1 Low 2412



11N20SISO Ant1 High 2472



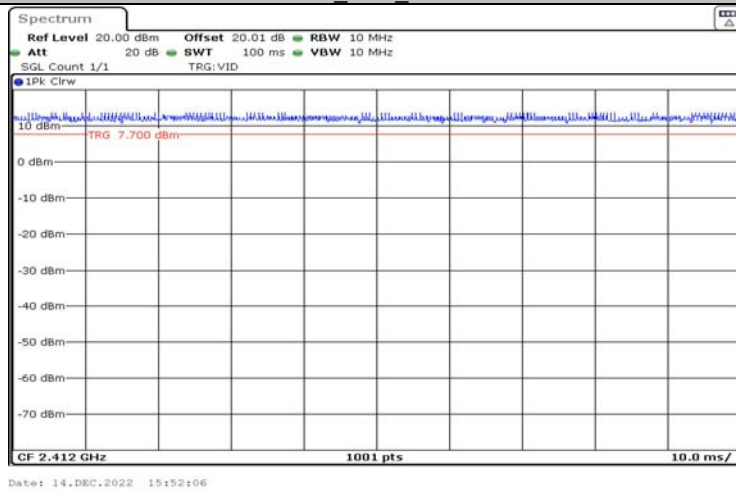
**Appendix F: Duty Cycle
Test Result**

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	100.00	100.00	100.00
		2442	100.00	100.00	100.00
		2472	100.00	100.00	100.00
11G	Ant1	2412	100.00	100.00	100.00
		2442	100.00	100.00	100.00
		2472	100.00	100.00	100.00
11N20SISO	Ant1	2412	100.00	100.00	100.00
		2442	100.00	100.00	100.00
		2472	100.00	100.00	100.00

Test Graphs



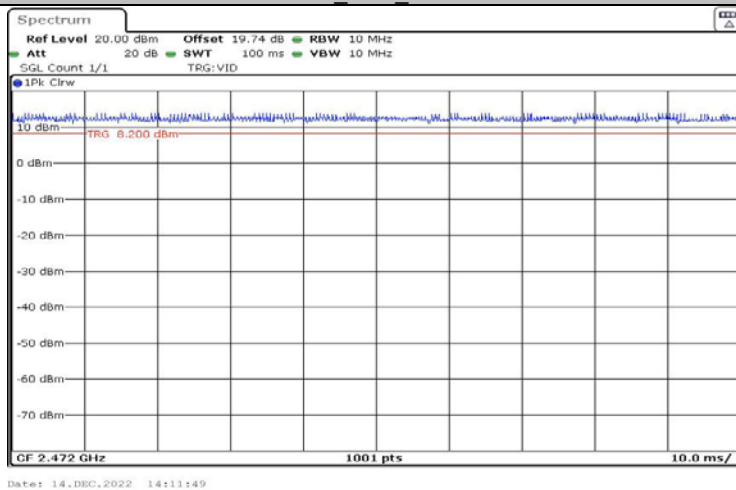
11G_Ant1_2412



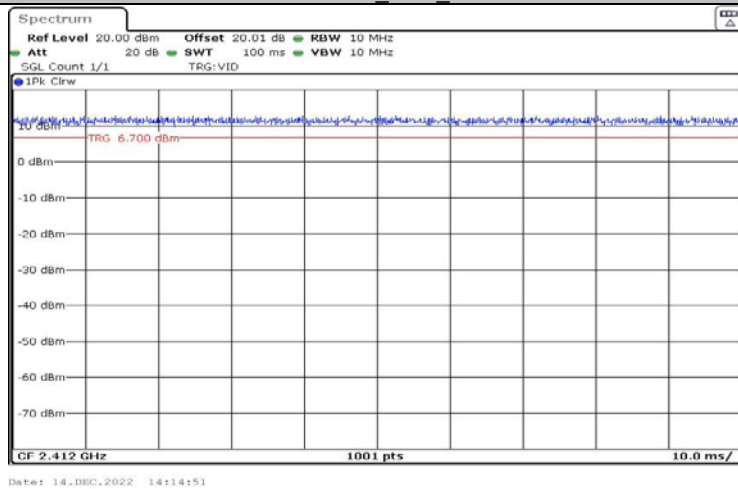
11G_Ant1_2442



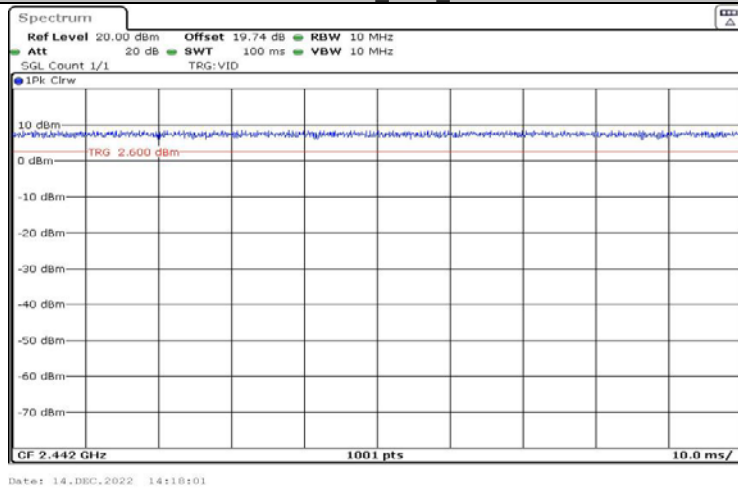
11G_Ant1_2472



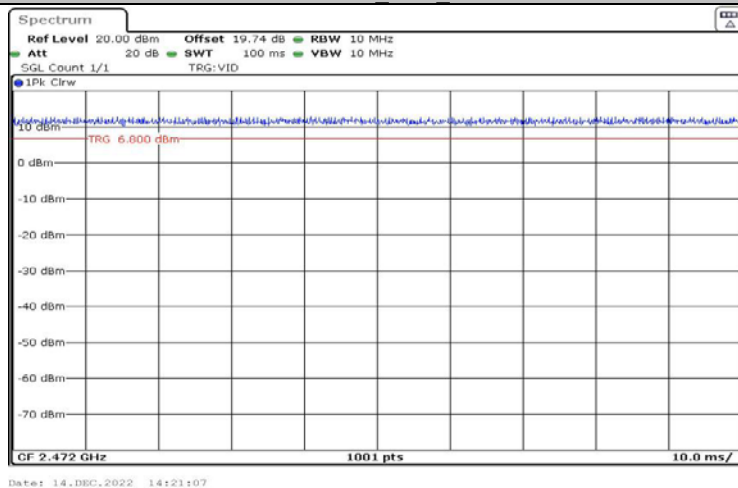
11N20SISO_Ant1_2412



11N20SISO_Ant1_2442



11N20SISO_Ant1_2472

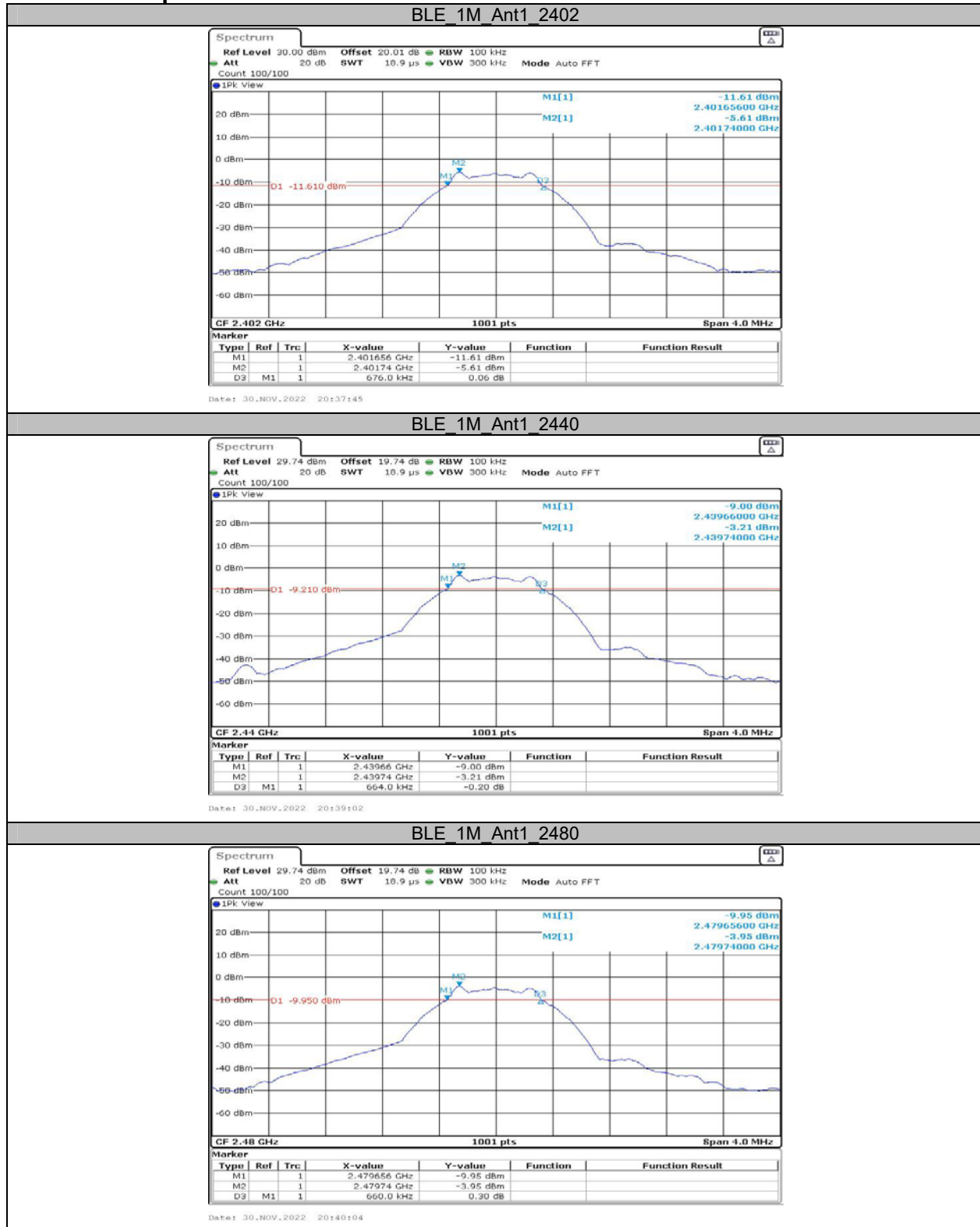


APPENDIX BLE

Appendix A: DTS Bandwidth Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.68	0.5	PASS
		2440	0.66	0.5	PASS
		2480	0.66	0.5	PASS

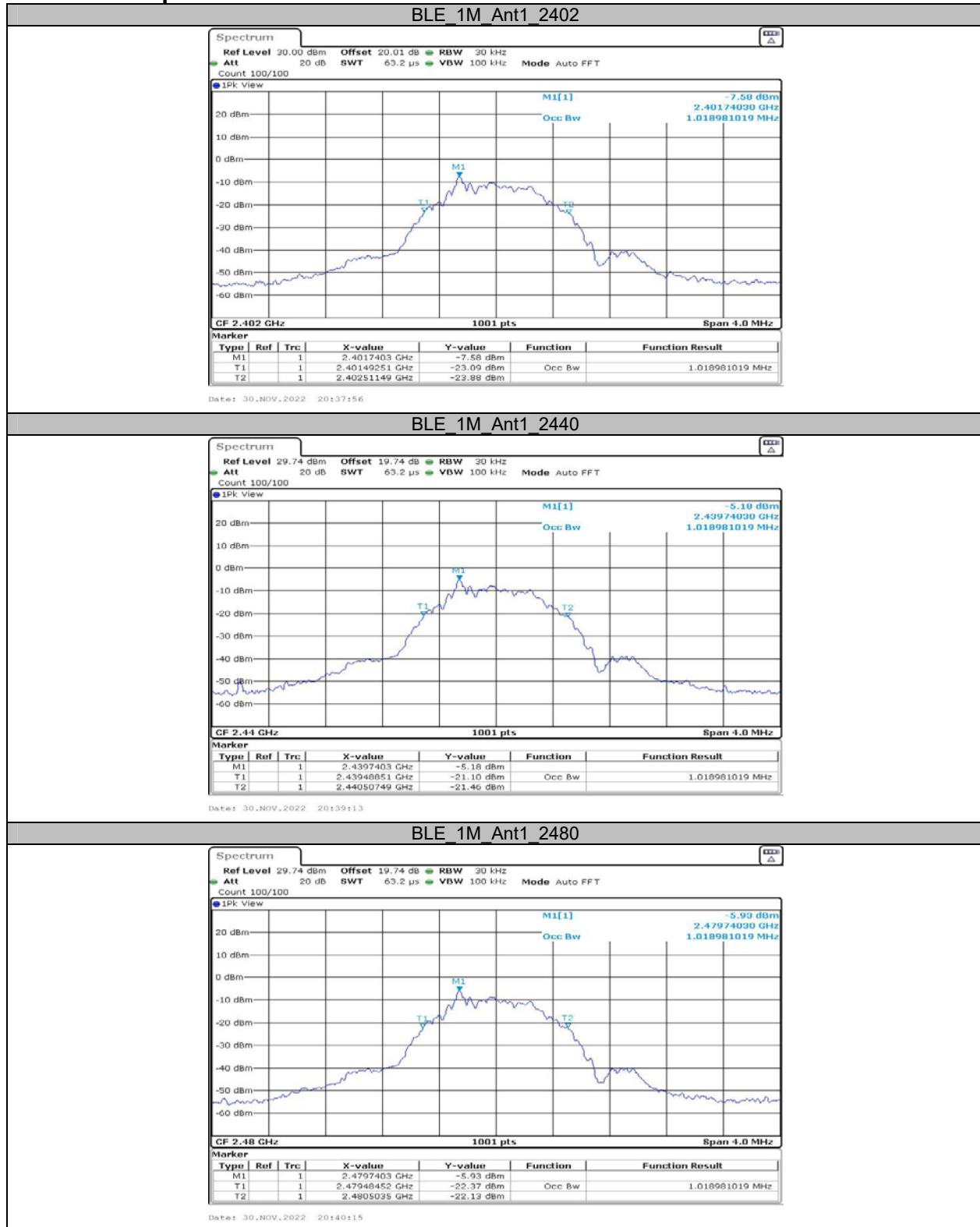
Test Graphs



**Appendix B: Occupied Channel Bandwidth
Test Result**

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.019	2401.493	2402.511	---	---
		2440	1.019	2439.489	2440.507	---	---
		2480	1.019	2479.485	2480.503	---	---

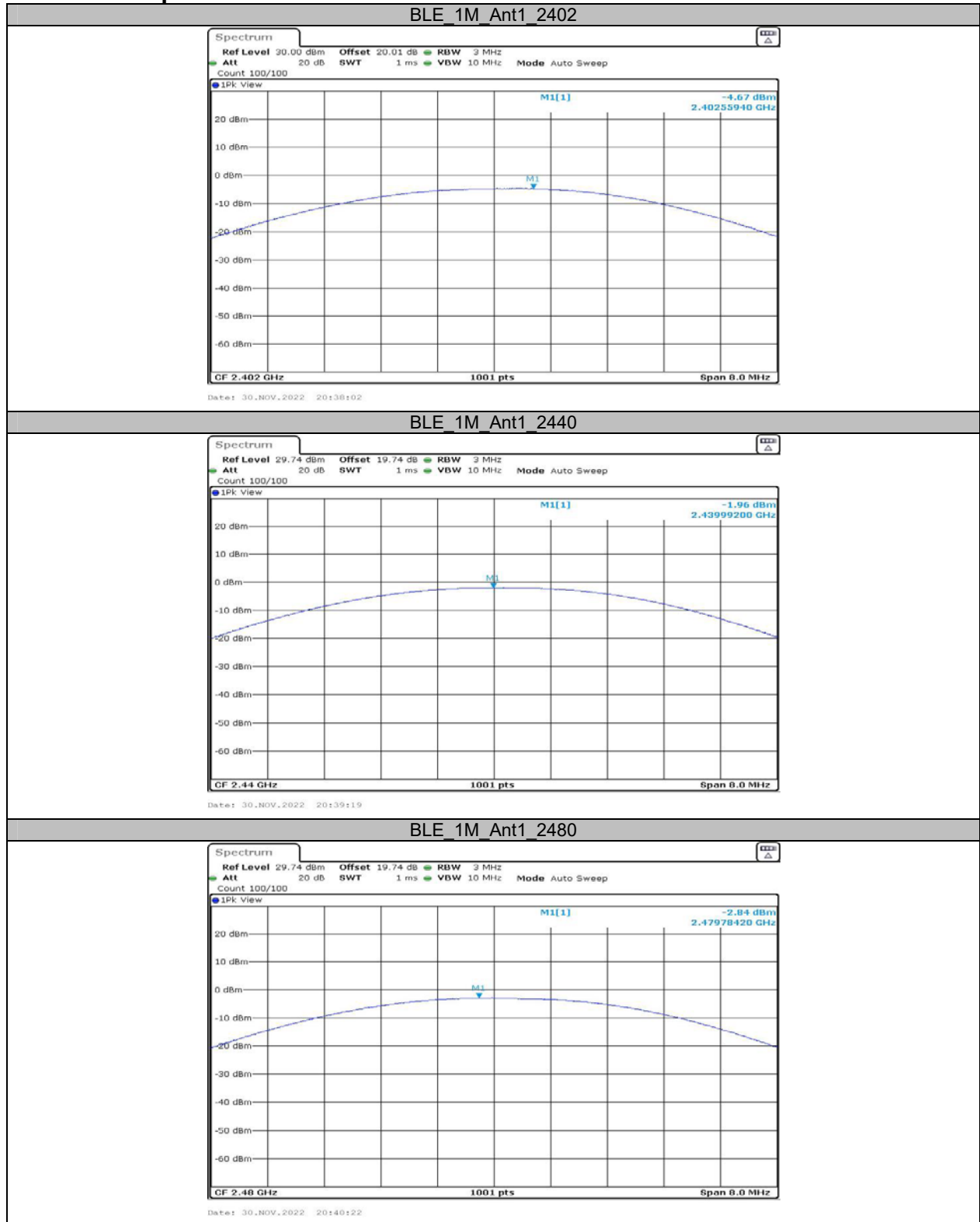
Test Graphs



**Appendix C: Maximum output power
Test Result**

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-4.67	≤30	PASS
		2440	-1.96	≤30	PASS
		2480	-2.84	≤30	PASS

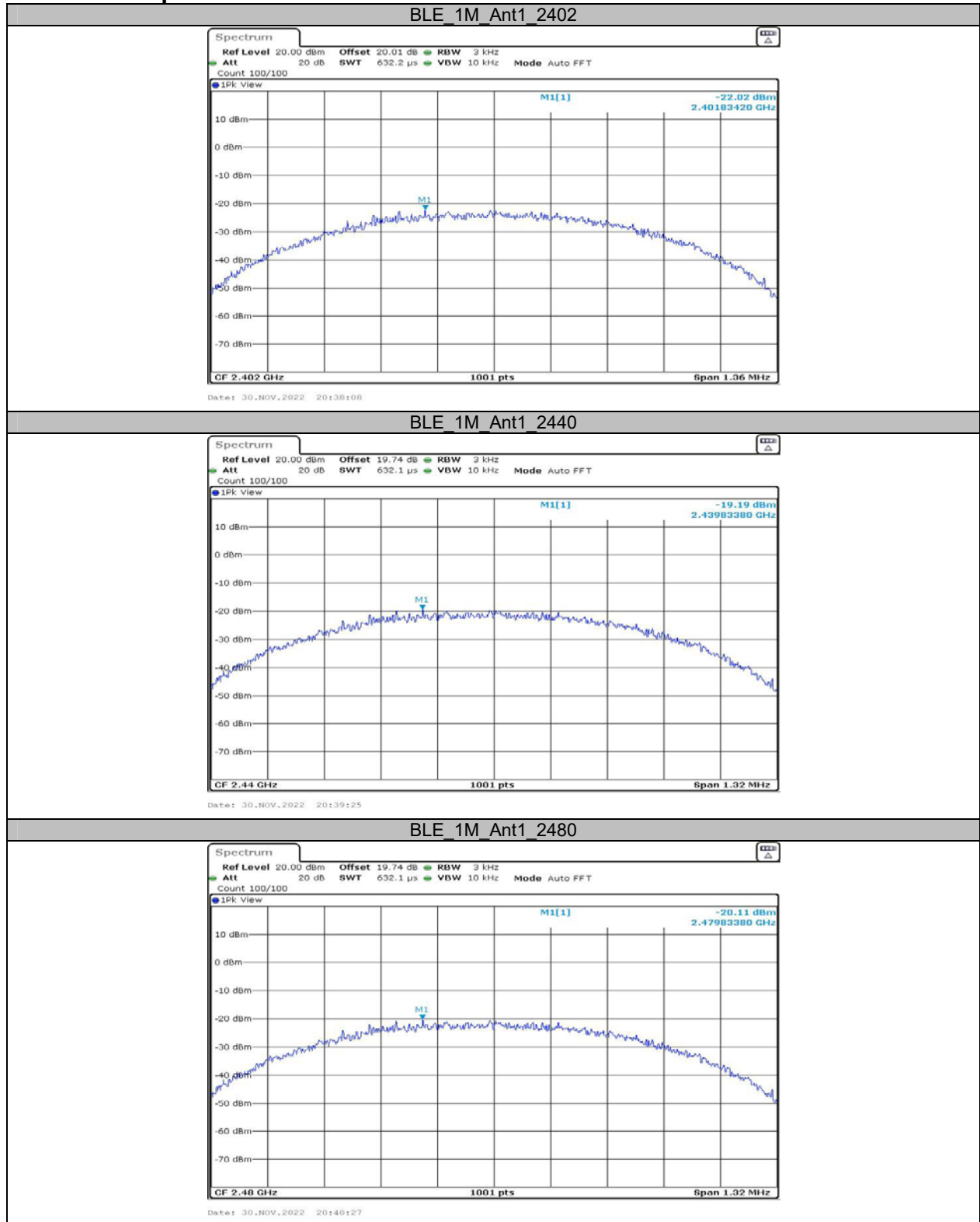
Test Graphs



**Appendix D: Maximum power spectral density
Test Result**

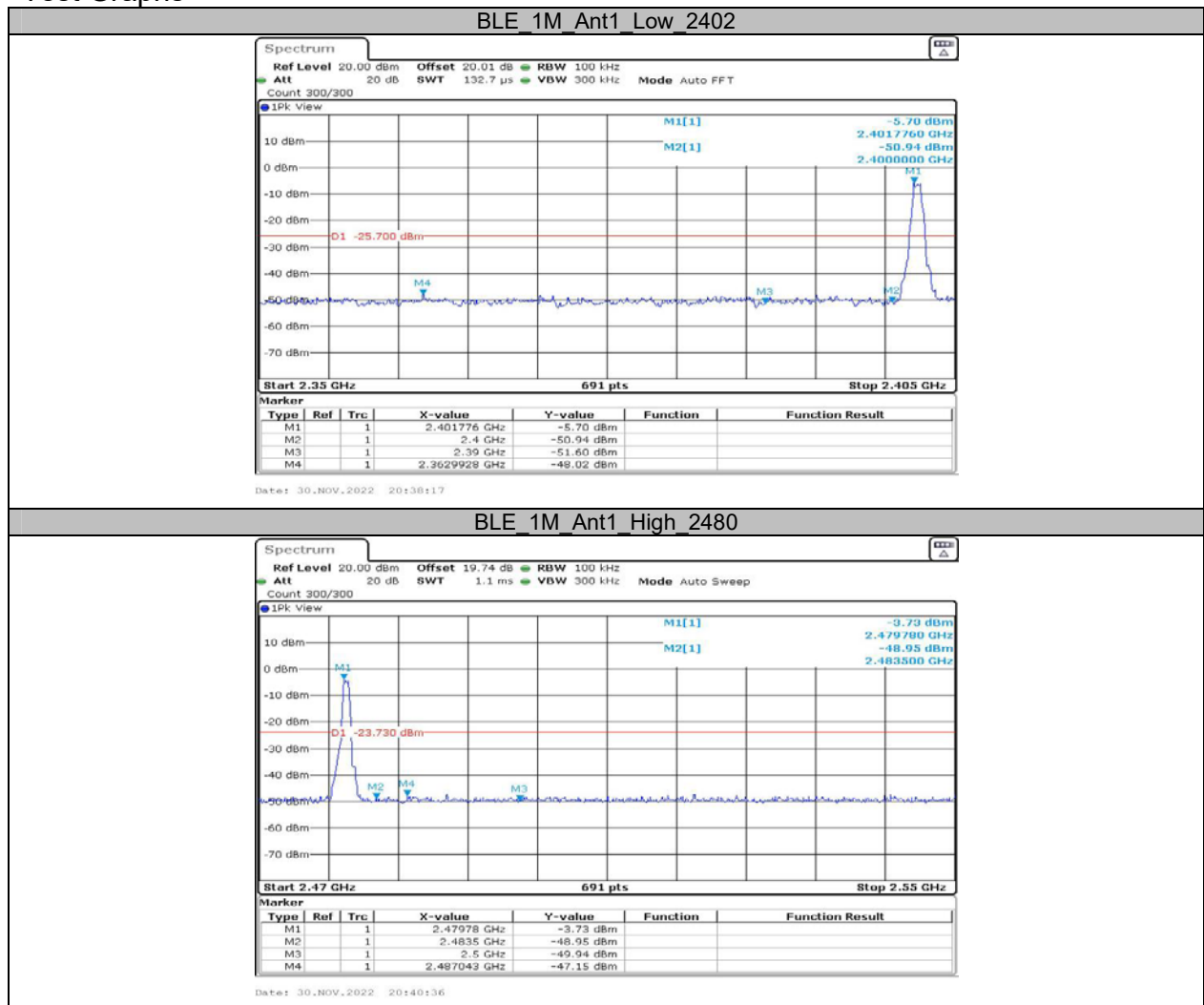
Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-22.02	≤8.00	PASS
		2440	-19.19	≤8.00	PASS
		2480	-20.11	≤8.00	PASS

Test Graphs



Appendix E: Band edge measurements

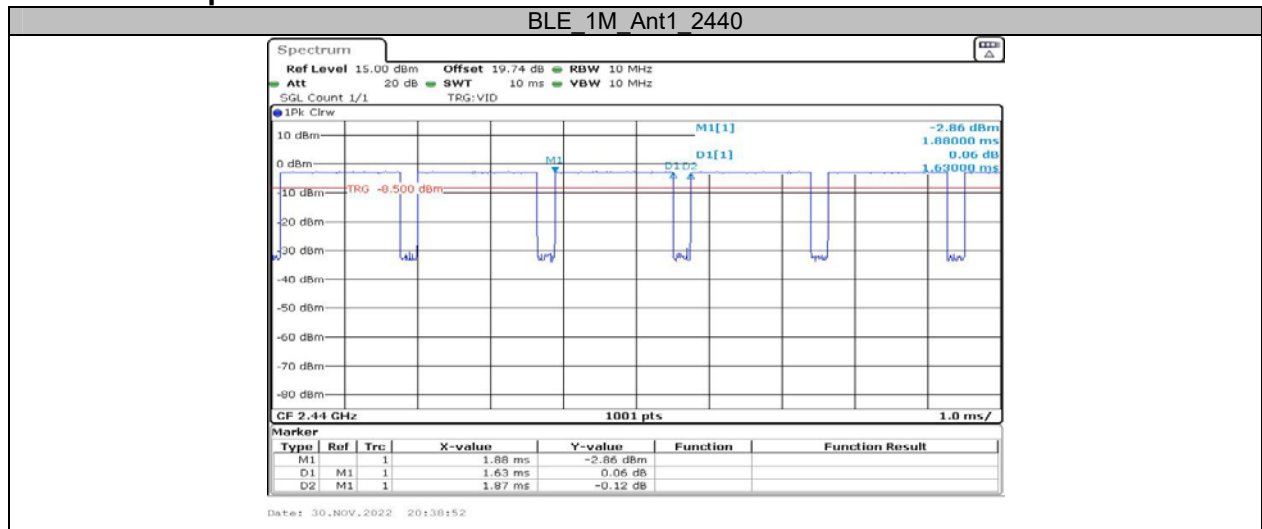
Test Graphs



Appendix F: Duty Cycle Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2440	1.63	1.87	87.17

Test Graphs



***** END OF REPORT *****