

# TEST REPORT

Applicant Name : PCD, LLC  
Address : 1500 Tradeport Drive, Suite A, Orlando, Florida, United States 32824  
Report Number : SZNS1220811-36586E-RF-00B  
FCC ID: 2ALJJT85

**Test Standard (s)**

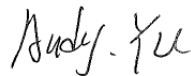
FCC Part 15.247

**Sample Description**

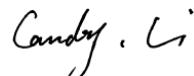
Product: TABLET  
Tested Model: T85  
Trade Mark: PCD  
Date Received: 2022-08-11  
Date of Test: 2022-08-26 to 2022-09-01  
Report Date: 2022-09-23

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

**Prepared and Checked By:**

Audy.Yu  
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)

Product	TABLET
Tested Model	T85
Hardware Version	RC-GS717-TC
Software Version	PCD_T85_US_V1.0
Frequency Range	BLE: 2402-2480MHz Wi-Fi: 2412-2472MHz
Maximum Conducted Peak Output Power	BLE 1M: 3.61dBm Wi-Fi: 14.50dBm(802.11b), 15.60dBm(802.11g), 15.53dBm(802.11n20), 14.91dBm(802.11n40)
Modulation Technique	BLE: GFSK Wi-Fi: DSSS, OFDM
Antenna Specification*	Internal FPC Antenna: 0.74dBi(provided by the applicant)
Voltage Range	DC 3.8V from battery or DC 5V from adapter
Sample serial number	SZNS1220811-36586E-RF-S1 (CE&RE Test) SZNS1220811-36586E-RF-S2 (RF Conducted Test) (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Model: T85 Input: AC 100-240V~50/60Hz, 0.5A Output: DC 5.0V --- 2000mA

### 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 Frequency	0.082*10 <sup>-7</sup>	
RF output power, conducted	0.73dB	
Unwanted Emission, conducted	1.6dB	
AC Power Lines Conducted Emissions	2.72dB	
Audio Frequency Response	0.1dB	
Low Pass Filter Response	1.2dB	
Modulation Limiting	1%	
Emissions, Radiated	9kHz - 30MHz	2.66dB
	30MHz - 1GHz	4.28dB
	1GHz - 18GHz	4.98dB
	18GHz - 26.5GHz	5.06dB
	26.5GHz - 40GHz	4.72dB
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 4297.01

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0016. The Registration Number is 5077A.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

For 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 mode, total 13channels 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 Channel1, 7 and 13.

802.11n-HT40 mode was tested with Channel 3, 7 and 11.

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 test in Engineering mode and power level as below:

Mode	Data Rate (Mbps)	Power Level*
802.11 b	1	17
802.11 g	6	13
802.11 n20	MCS0	13
802.11 n40	MCS0	13
BLE	1M	Default

The worse-case data rates are determined to be as above for each mode based upon investigations by measuring the output power and PSD across all data rates, bandwidths and modulations.

## Duty cycle

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

## Support Equipment List and Details

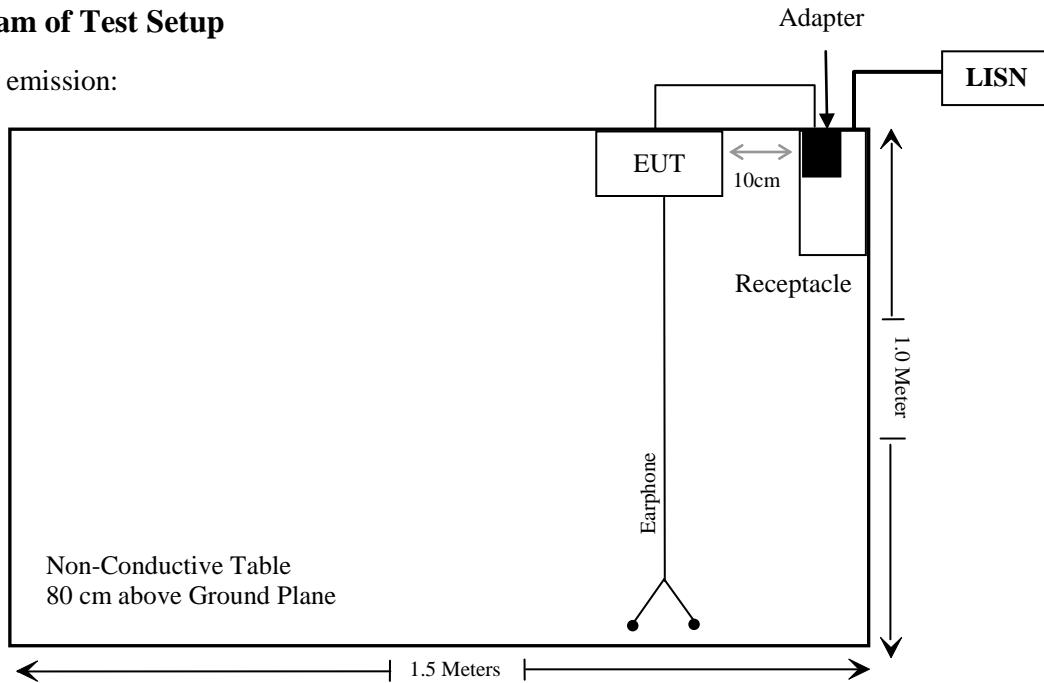
Manufacturer	Description	Model	Serial Number
Unknown	Earphone	Unknown	Earphone

## External I/O Cable

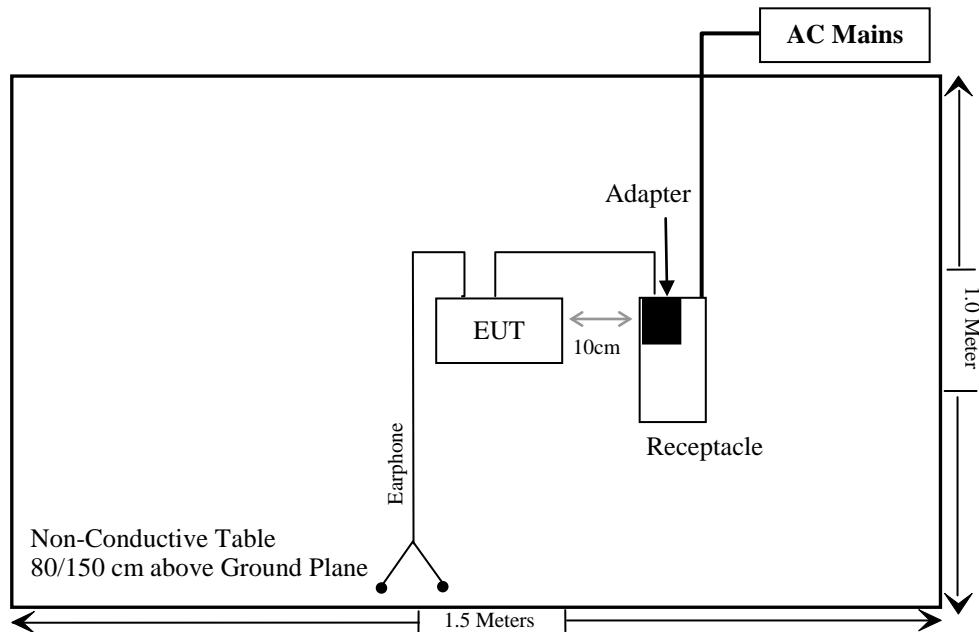
Cable Description	Length (m)	From Port	To
Un-shielding Detachable USB Cable	1.0	EUT	Adapter

## Block Diagram of Test Setup

For conducted emission:



For Radiated emission:



**SUMMARY OF TEST RESULTS**

FCC Rules	Description of Test	Result
§ 1.1307 & §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
<b>Conducted Emissions Test</b>					
Rohde & Schwarz	EMI Test Receiver	ESCI	100784	2021/12/13	2022/12/12
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2021/12/13	2022/12/12
Unknown	RF Coaxial Cable	No.17	N0350	2021/12/14	2022/12/13
Conducted Emission Test Software: e3 19821b (V9)					
<b>Radiated Emissions Test</b>					
Rohde & Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08
Quinstar	Amplifier	QLW-184055 36-J0	15964001002	2021/11/11	2022/11/10
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
Wainwright	Band Reject Filter	WRCG2400/2 485-2375/251 0-60/11SS	10	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.16	N650	2021/12/14	2022/12/13
Radiated Emission Test Software: e3 19821b (V9)					
<b>RF Conducted Test</b>					
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2021/12/13	2022/12/12
Rohde & Schwarz	Open Switch and Control Unit	OSP120 + OSP-B157	101244 + 100866	2021/12/13	2022/12/12
WEINSCHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13
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§1.1307 (b) & §2.1093 – RF EXPOSURE****Applicable Standard**

According to FCC §2.1093 and §1.1307(b), 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 v01, clause 2.1.3.1-SAR-Based Exemption:

A more comprehensive exemption, considering a variable power threshold that depends on both the separation distance and power, is provided in § 1.1307(b)(3)(i)(B). This exemption is applicable to the frequency range between 300 MHz and 6 GHz, with test separation distances between 0.5 cm and 40 cm, and for all RF sources in fixed, mobile, and portable device exposure conditions.

Accordingly, a RF source is considered an RF exempt device if its available maximum time-averaged (matched conducted) power or its effective radiated power (ERP), whichever is greater, are below a specified threshold. This exemption threshold was derived based on general population 1-g SAR requirements and is detailed in Appendix C.

**Test Result****For worst case:**

Mode	Frequency (MHz)	Maximum Tune-up Conducted Power (dBm)	Antenna Gain		ERP (dBm)	ERP <sub>20cm</sub> (mW)	Distance (mm)	SAR-Based Exclusion Threshold (mW) (dBm)		SAR-Based Exclusion
			(dBi)	(dBd)				(mW)	(dBm)	
BLE	2402-2480	4.0	0.74	-1.41	2.59	3060	5	2.717	4.34	Yes

Note 1: The tune-up power was declared by the applicant.

Note 2: 0dBd=2.15dBi.

**Result:** Compliant.

For Wi-Fi mode, please refer to the SAR report: SZNS1220811-36586E-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.

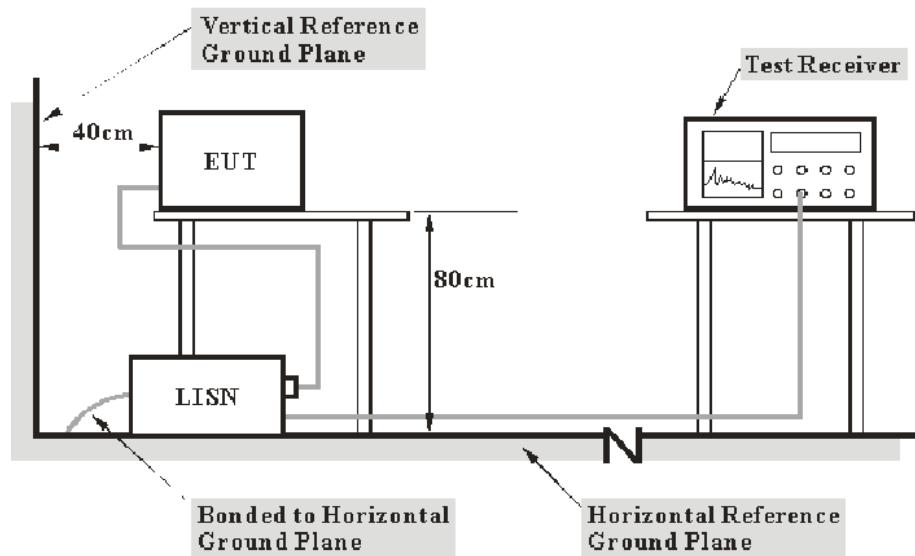
### Antenna Connector Construction

The EUT has one Internal FPC Antenna arrangement, which was permanently attached and the antenna gain is 0.74dBi, 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.

## Factor & Margin Calculation

The 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:

$$\text{Over Limit} = \text{Level} - \text{Limit}$$

$$\text{Level} = \text{Read Level} + \text{Factor}$$

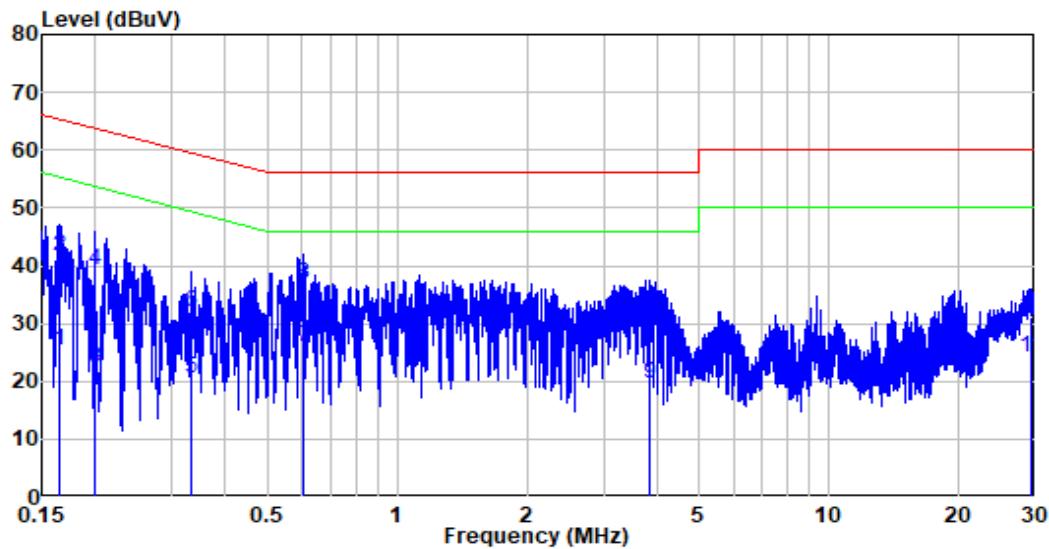
## Test Data

### Environmental Conditions

<b>Temperature:</b>	23 °C
<b>Relative Humidity:</b>	42 %
<b>ATM Pressure:</b>	101.2 kPa

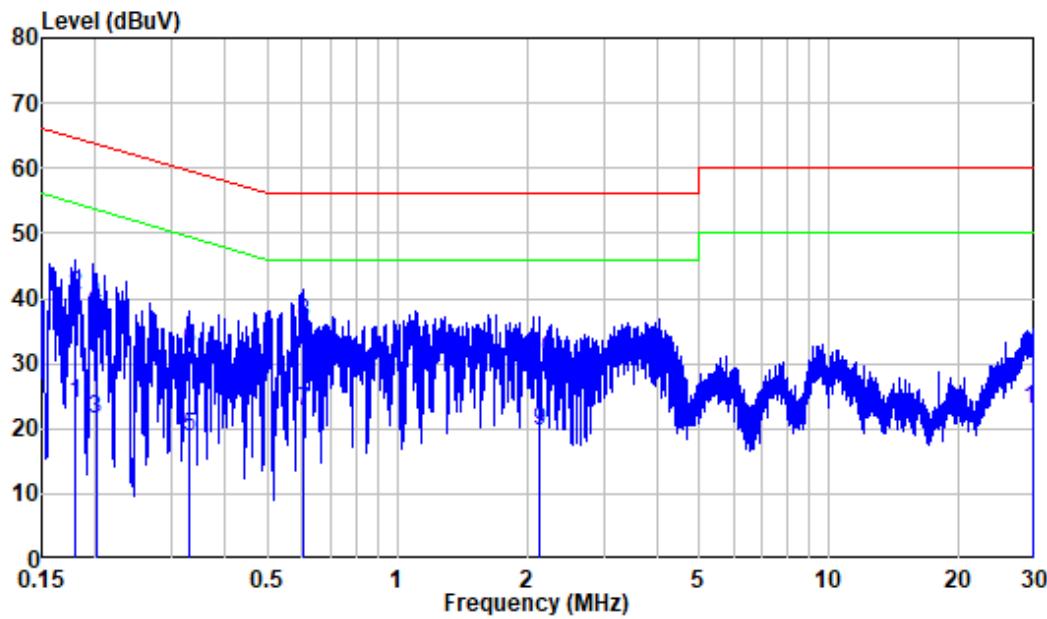
*The testing was performed by Jason Liu on 2022-08-30*

*EUT operation mode: Charging + 2.4G WIFI Transmitting (worst case 802.11g, middle channel)*

**AC 120V/60 Hz, Line**

Site : Shielding Room  
Condition: Line  
Job No. : SZNS1220811-36586E-RF  
Mode : Charging + 2.4G WIFI Transmitting  
Power : AC 120V 60Hz

Freq	Factor	Read	Limit	Over	Remark
		Level	Level	Line	
1	0.164	9.80	15.49	25.29	55.25 -29.96 Average
2	0.164	9.80	31.95	41.75	65.25 -23.50 QP
3	0.200	9.80	12.61	22.41	53.62 -31.21 Average
4	0.200	9.80	29.33	39.13	63.62 -24.49 QP
5	0.334	9.80	10.73	20.53	49.35 -28.82 Average
6	0.334	9.80	22.23	32.03	59.35 -27.32 QP
7	0.603	9.81	16.18	25.99	46.00 -20.01 Average
8	0.603	9.81	26.89	36.70	56.00 -19.30 QP
9	3.830	9.84	9.84	19.68	46.00 -26.32 Average
10	3.830	9.84	22.11	31.95	56.00 -24.05 QP
11	29.313	10.09	13.91	24.00	50.00 -26.00 Average
12	29.313	10.09	21.05	31.14	60.00 -28.86 QP

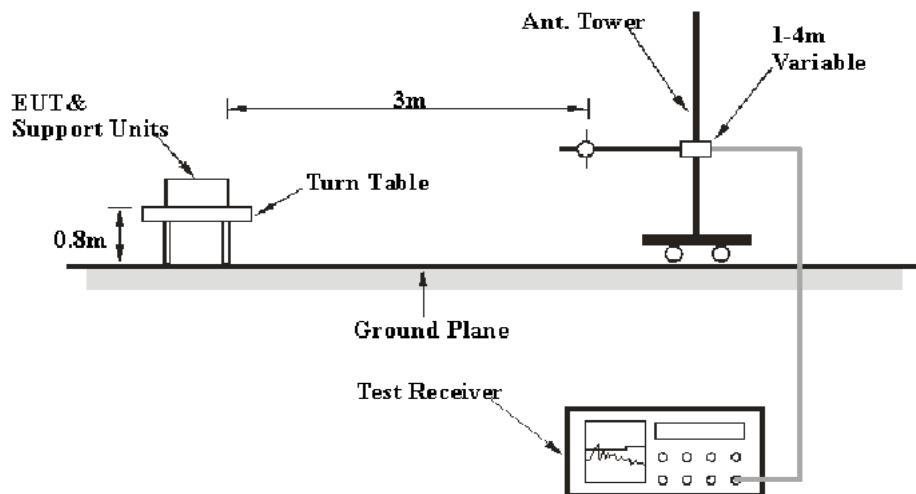
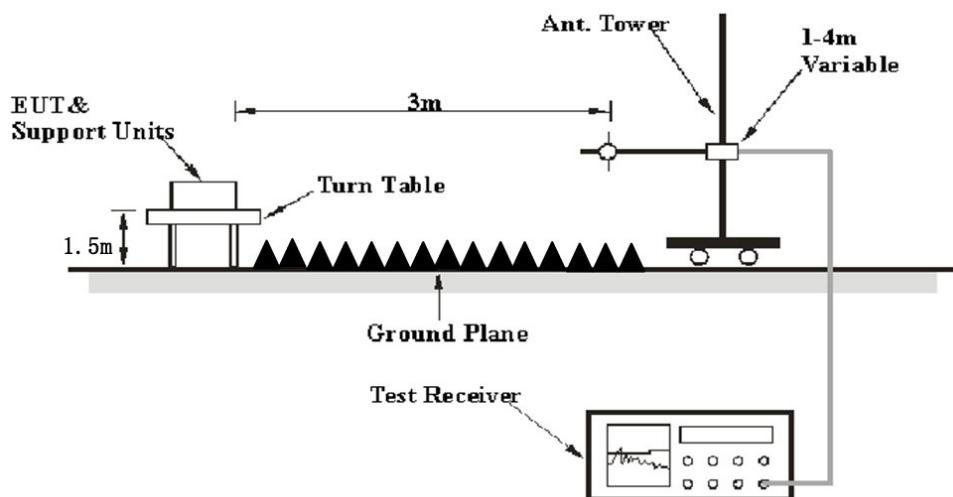
**AC 120V/60 Hz, Neutral**

Site : Shielding Room  
Condition: Neutral  
Job No. : SZNS1220811-36586E-RF  
Mode : Charging + 2.4G WIFI Transmitting  
Power : AC 120V 60Hz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB	dBuV	dBuV		
1	0.179	9.80	14.19	23.99	54.53	-30.54	Average
2	0.179	9.80	30.60	40.40	64.53	-24.13	QP
3	0.200	9.80	11.75	21.55	53.60	-32.05	Average
4	0.200	9.80	28.86	38.66	63.60	-24.94	QP
5	0.328	9.80	8.82	18.62	49.50	-30.88	Average
6	0.328	9.80	22.16	31.96	59.50	-27.54	QP
7	0.603	9.81	12.69	22.50	46.00	-23.50	Average
8	0.603	9.81	26.56	36.37	56.00	-19.63	QP
9	2.124	9.82	9.75	19.57	46.00	-26.43	Average
10	2.124	9.82	20.71	30.53	56.00	-25.47	QP
11	29.743	10.20	12.85	23.05	50.00	-26.95	Average
12	29.743	10.20	20.94	31.14	60.00	-28.86	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 <sup>Note 1</sup>	/	Average
	1MHz	>1/T <sup>Note 2</sup>	/	Average

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

Note 2: when duty cycle is less than 98%

If the maximized peak measured value complies with the limit, then it is unnecessary to perform QP/Average measurement.

## 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:

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

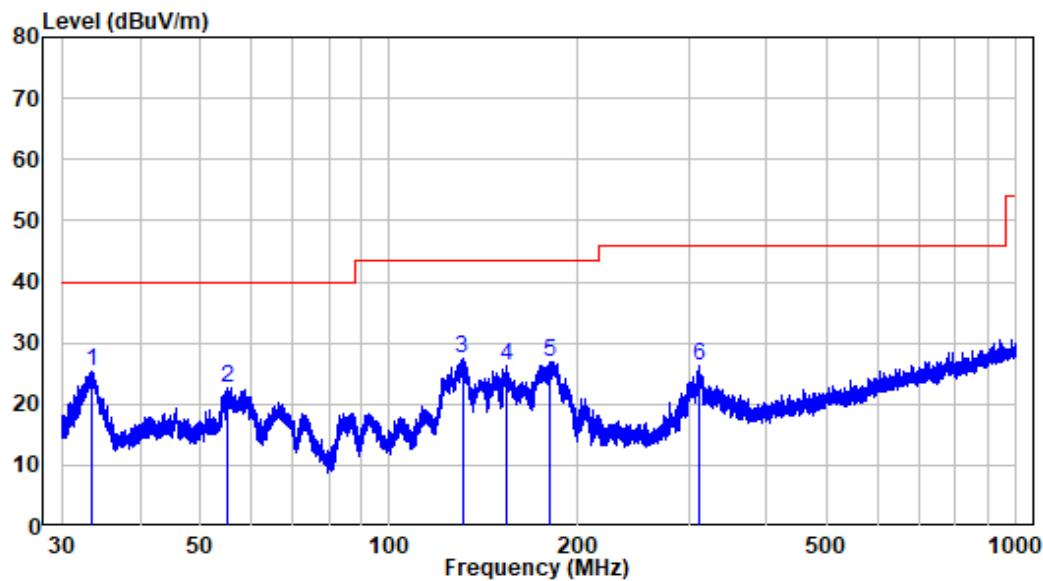
## Test Data

### Environmental Conditions

Temperature:	25~28°C
Relative Humidity:	57~60 %
ATM Pressure:	101.0~102 kPa

The testing was performed by Level Li from 2022-08-26 to 2022-08-30

EUT operation mode: Charging + 2.4G WIFI Transmitting (Pre-scan in the X, Y and Z axes of orientation, the worst case Y-axis of orientation was recorded)

**30MHz-1GHz: (worst case 802.11g, middle channel)****Horizontal**

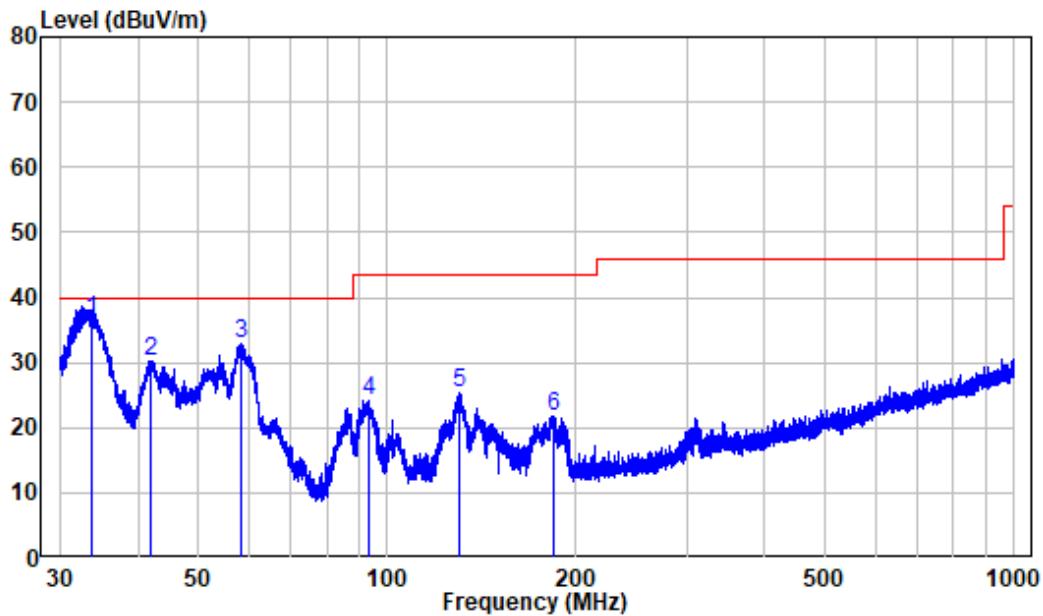
Site : chamber

Condition: 3m HORIZONTAL

Job No. : SZNS1220811-36586E-RF

Test Mode: Charging+2.4G WIFI Transmitting

	Freq	Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	33.474	-11.94	37.36	25.42	40.00	-14.58	Peak
2	55.003	-10.28	32.90	22.62	40.00	-17.38	Peak
3	130.722	-14.92	42.29	27.37	43.50	-16.13	Peak
4	154.279	-15.00	41.16	26.16	43.50	-17.34	Peak
5	180.491	-12.71	39.71	27.00	43.50	-16.50	Peak
6	312.316	-8.81	34.95	26.14	46.00	-19.86	Peak

**Vertical**

Site : chamber

Condition: 3m VERTICAL

Job No. : SZNS1220811-36586E-RF

Test Mode: Charging+2.4G WIFI Transmitting

	Freq	Factor	Read Level	Limit Level	Line	Over Limit	Remark
	MHz	dB/m	dB <sub>UV</sub>	dB <sub>UV</sub> /m	dB <sub>UV</sub> /m	dB	
1	33.790	-11.88	48.49	36.61	40.00	-3.39	QP
2	42.025	-10.02	40.33	30.31	40.00	-9.69	Peak
3	58.407	-10.05	42.94	32.89	40.00	-7.11	Peak
4	93.358	-12.89	36.96	24.07	43.50	-19.43	Peak
5	130.551	-14.91	40.29	25.38	43.50	-18.12	Peak
6	183.603	-12.34	33.98	21.64	43.50	-21.86	Peak

**1-25 GHz:****Wi-Fi:**

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBuV/m)	Limit (dBuV/ m)	Margin (dB)
	Reading (dBuV)	PK/Ave		Height (m)	Polar (H/V)				
802.11B, Low Channel									
2310	54.21	PK	59	1.6	H	-7.23	46.98	74	-27.02
2310	54.04	PK	58	1	V	-7.23	46.81	74	-27.19
2390	54.41	PK	171	1.6	H	-7.21	47.2	74	-26.8
2390	54.17	PK	249	1.3	V	-7.21	46.96	74	-27.04
4824	47.1	PK	165	2.1	H	-3.53	43.57	74	-30.43
4824	48.37	PK	182	1.1	V	-3.53	44.84	74	-29.16
802.11B, Middle Channel									
4884	53.13	PK	152	2	H	-3.36	49.77	74	-24.23
4884	53.95	PK	151	1.6	V	-3.36	50.59	74	-23.41
802.11B, High Channel									
2483.5	64.79	PK	259	2.2	H	-7.2	57.59	74	-16.41
2483.5	56.17	AVG	259	2.2	H	-7.2	48.97	54	-5.03
2483.5	63.28	PK	103	1.6	V	-7.2	56.08	74	-17.92
2483.5	54.39	AVG	103	1.6	V	-7.2	47.19	54	-6.81
2500	54.44	PK	43	1.7	H	-7.18	47.26	74	-26.74
2500	55.09	PK	338	1.9	V	-7.18	47.91	74	-26.09
4944	52.02	PK	76	1.6	H	-3.06	48.96	74	-25.04
4944	53.97	PK	56	1.5	V	-3.06	50.91	74	-23.09
802.11G, Low Channel									
2310	55.17	PK	283	1.7	H	-7.23	47.94	74	-26.06
2310	54.99	PK	16	2	V	-7.23	47.76	74	-26.24
2390	56.94	PK	27	1.3	H	-7.21	49.73	74	-24.27
2390	56.48	PK	256	1	V	-7.21	49.27	74	-24.73
4824	46.18	PK	49	1.3	H	-3.53	42.65	74	-31.35
4824	45.31	PK	189	1.6	V	-3.53	41.78	74	-32.22
802.11G, Middle Channel									
4884	43.97	PK	79	2.1	H	-3.36	40.61	74	-33.39
4884	45.35	PK	37	1.3	V	-3.36	41.99	74	-32.01
802.11G, High Channel									
2483.5	73.34	PK	247	2.1	H	-7.2	66.14	74	-7.86
2483.5	58.31	AVG	247	2.1	H	-7.2	51.11	54	<b>-2.89</b>
2483.5	70.89	PK	79	1.4	V	-7.2	63.69	74	-10.31
2483.5	55.72	AVG	79	1.4	V	-7.2	48.52	54	-5.48
2500	54.53	PK	202	1.6	H	-7.18	47.35	74	-26.65
2500	54.68	PK	81	1.4	V	-7.18	47.5	74	-26.5
4944	44.16	PK	246	1.5	H	-3.06	41.1	74	-32.9
4944	45.9	PK	39	1.1	V	-3.06	42.84	74	-31.16

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBuV/m)	Limit (dBuV/ m)	Margin (dB)
	Reading (dBuV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N20, Low Channel									
2310	55.52	PK	50	1.1	H	-7.23	48.29	74	-25.71
2310	53.75	PK	66	1.9	V	-7.23	46.52	74	-27.48
2390	60.94	PK	177	1.5	H	-7.21	53.73	74	-20.27
2390	58.13	PK	248	1.5	V	-7.21	50.92	74	-23.08
4824	44.96	PK	106	1.9	H	-3.53	41.43	74	-32.57
4824	45.09	PK	202	1	V	-3.53	41.56	74	-32.44
802.11N20, Middle Channel									
4884	45.48	PK	260	2.1	H	-3.36	42.12	74	-31.88
4884	46.19	PK	27	1.8	V	-3.36	42.83	74	-31.17
802.11N20, High Channel									
2483.5	72.66	PK	23	1.4	H	-7.2	65.46	74	-8.54
2483.5	57.8	AVG	23	1.4	H	-7.2	50.6	54	-3.4
2483.5	70.8	PK	248	1.8	V	-7.2	63.6	74	-10.4
2483.5	55.18	AVG	248	1.8	V	-7.2	47.98	54	-6.02
2500	55.58	PK	217	1.5	H	-7.18	48.4	74	-25.6
2500	55.38	PK	149	1.5	V	-7.18	48.2	74	-25.8
4944	45.47	PK	36	1.3	H	-3.06	42.41	74	-31.59
4944	46.32	PK	197	1.6	V	-3.06	43.26	74	-30.74
802.11N40, Low Channel									
2310	54.49	PK	294	1.1	H	-7.23	47.26	74	-26.74
2310	54.86	PK	173	2.2	V	-7.23	47.63	74	-26.37
2390	63.44	PK	272	1.2	H	-7.21	56.23	74	-17.77
2390	51.93	AVG	272	1.2	H	-7.21	44.72	54	-9.28
2390	59.41	PK	50	1.9	V	-7.21	52.2	74	-21.8
4844	46.24	PK	17	1.2	H	-3.54	42.7	74	-31.3
4844	45.27	PK	304	1.2	V	-3.54	41.73	74	-32.27
802.11N40, Middle Channel									
4884	45.93	PK	15	2.2	H	-3.36	42.57	74	-31.43
4884	45.13	PK	45	1.7	V	-3.36	41.77	74	-32.23
802.11N40, High Channel									
2483.5	65.75	PK	18	1.5	H	-7.2	58.55	74	-15.45
2483.5	51.63	AVG	18	1.5	H	-7.2	44.43	54	-9.57
2483.5	62.55	PK	74	1.4	V	-7.2	55.35	74	-18.65
2483.5	50.01	AVG	74	1.4	V	-7.2	42.81	54	-11.19
2500	55.06	PK	206	1.7	H	-7.18	47.88	74	-26.12
2500	54.97	PK	23	1.6	V	-7.18	47.79	74	-26.21
4924	45.4	PK	58	1	H	-3.16	42.24	74	-31.76
4924	47.1	PK	47	1.2	V	-3.16	43.94	74	-30.06

**BLE:**

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
	Reading (dBuV)	PK/Ave		Height (m)	Polar (H/V)				
BLE 1M, Low Channel									
2310	54.88	PK	255	2.1	H	-7.23	47.65	74	-26.35
2310	54.13	PK	128	1.5	V	-7.23	46.9	74	-27.10
2390	54.81	PK	329	1.6	H	-7.21	47.6	74	-26.40
2390	53.82	PK	314	1.1	V	-7.21	46.61	74	-27.39
4804	44.62	PK	263	1.8	H	-3.52	41.1	74	-32.90
4804	45.24	PK	273	1.2	V	-3.52	41.72	74	-32.28
BLE 1M, Middle Channel									
4880	44.81	PK	81	1.1	H	-3.38	41.43	74	-32.57
4880	45.98	PK	351	2.2	V	-3.38	42.6	74	-31.4
BLE 1M, High Channel									
2483.5	56.21	PK	295	1.9	H	-7.2	49.01	74	<b>-24.99</b>
2483.5	54.91	PK	142	2.1	V	-7.2	47.71	74	-26.29
2500	55.01	PK	73	1.6	H	-7.18	47.83	74	-26.17
2500	55.06	PK	22	2.0	V	-7.18	47.88	74	-26.12
4960	44.28	PK	245	2.1	H	-3.01	41.27	74	-32.73
4960	47.25	PK	252	2.1	V	-3.01	44.24	74	-29.76

**Note:**

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

Absolute Level (Corrected Amplitude) = Factor + Reading

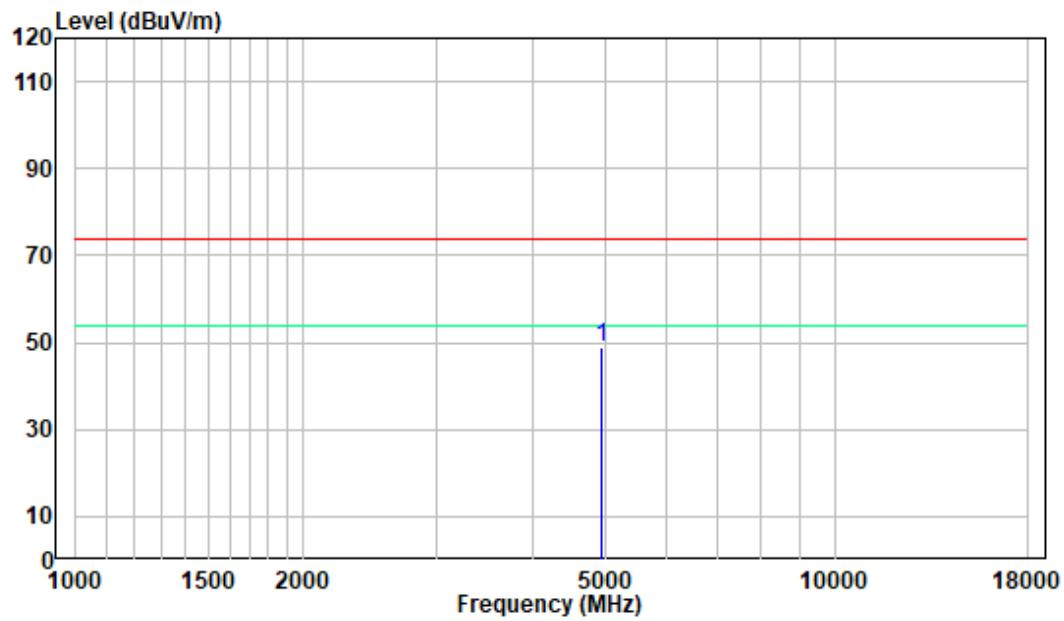
Margin = Absolute Level (Corrected Amplitude) – Limit

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

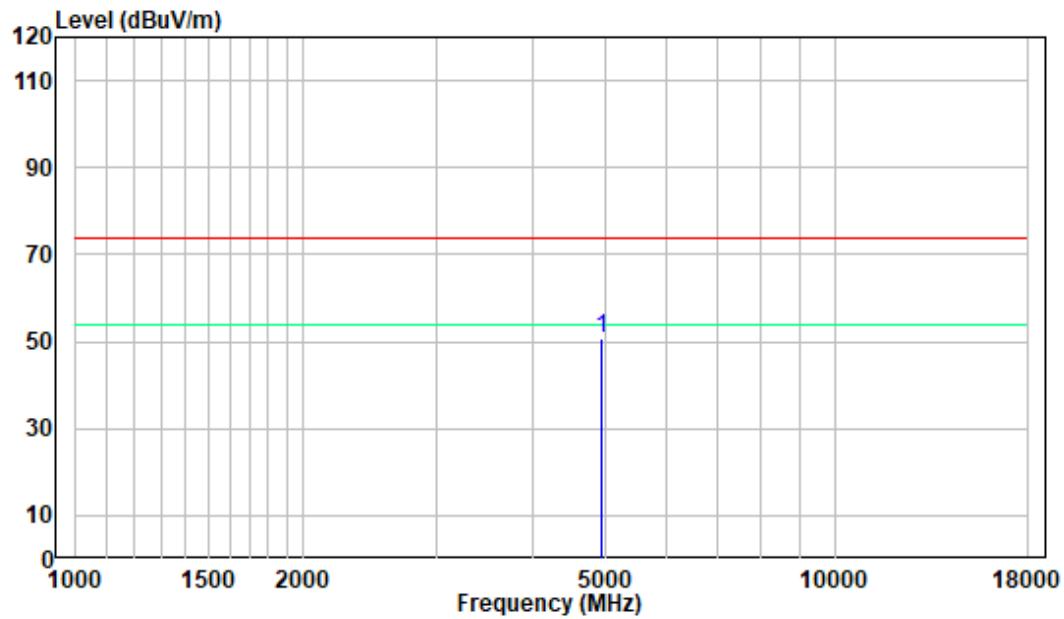
For above 1GHz, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

**1-18 GHz: (Worst case)**

Pre-scan plots  
802.11 b High Channel  
Horizontal

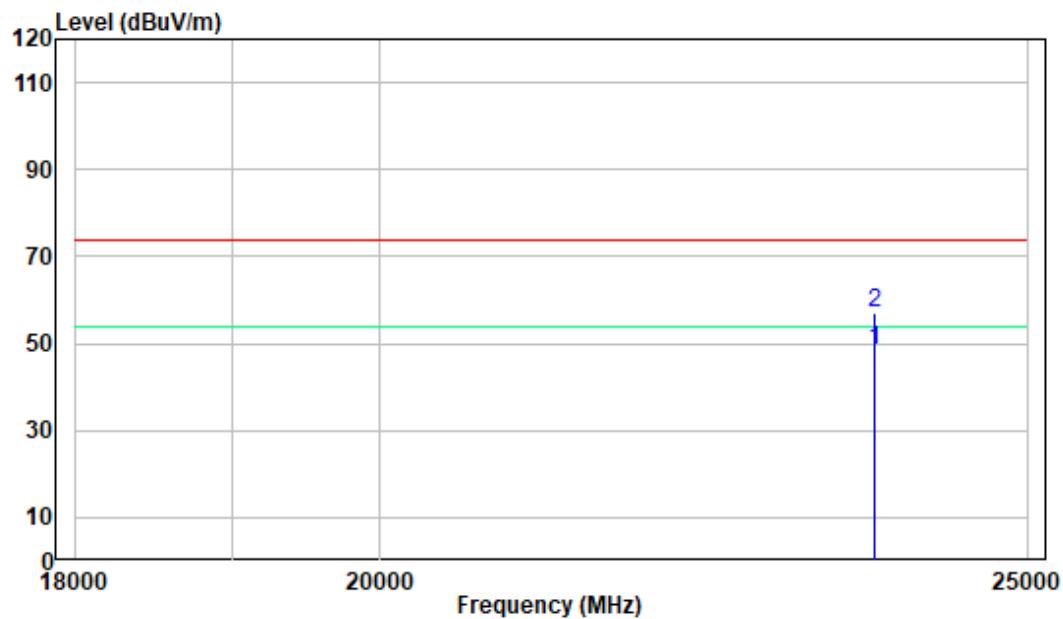


Vertical

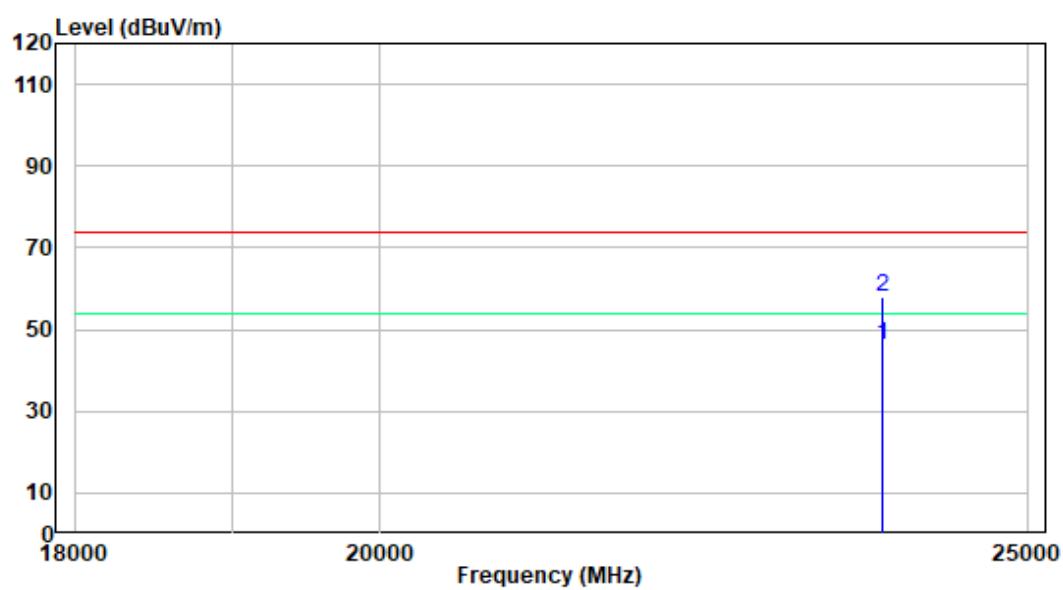


**18 -25GHz: (Worst case)**

Pre-scan plots  
802.11 b High Channel  
Horizontal



Vertical



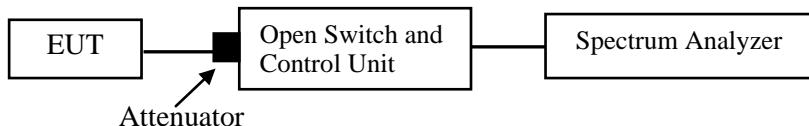
## FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

### 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:	45~48%
ATM Pressure:	101.0kPa

The testing was performed by Glenn. Jiang on 2022-09-01

EUT operation mode: Transmitting

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

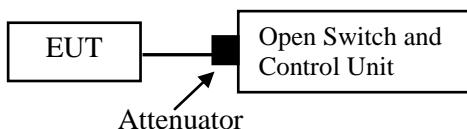
## FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

### 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.



Note: The Open Switch and Control Unit has built-in power sensor.

### Test Data

#### Environmental Conditions

<b>Temperature:</b>	24~25 °C
<b>Relative Humidity:</b>	45~48%
<b>ATM Pressure:</b>	101.0kPa

The testing was performed by Glenn. Jiang on 2022-09-01

EUT operation mode: Transmitting

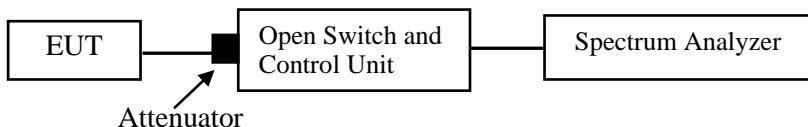
Test Result: Compliant. Please refer to the Appendix Wi-Fi and Appendix BLE.

**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**

<b>Temperature:</b>	24~25 °C
<b>Relative Humidity:</b>	45~48%
<b>ATM Pressure:</b>	101.0kPa

The testing was performed by Glenn. Jiang on 2022-09-01

EUT operation mode: Transmitting

Test Result: Compliant.

**Conducted Band Edge Result:**

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

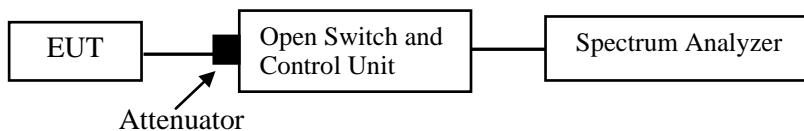
## FCC §15.247(e) - POWER SPECTRAL DENSITY

### 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:	45~48%
ATM Pressure:	101.0kPa

The testing was performed by Glenn. Jiang on 2022-09-01

EUT operation mode: Transmitting

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

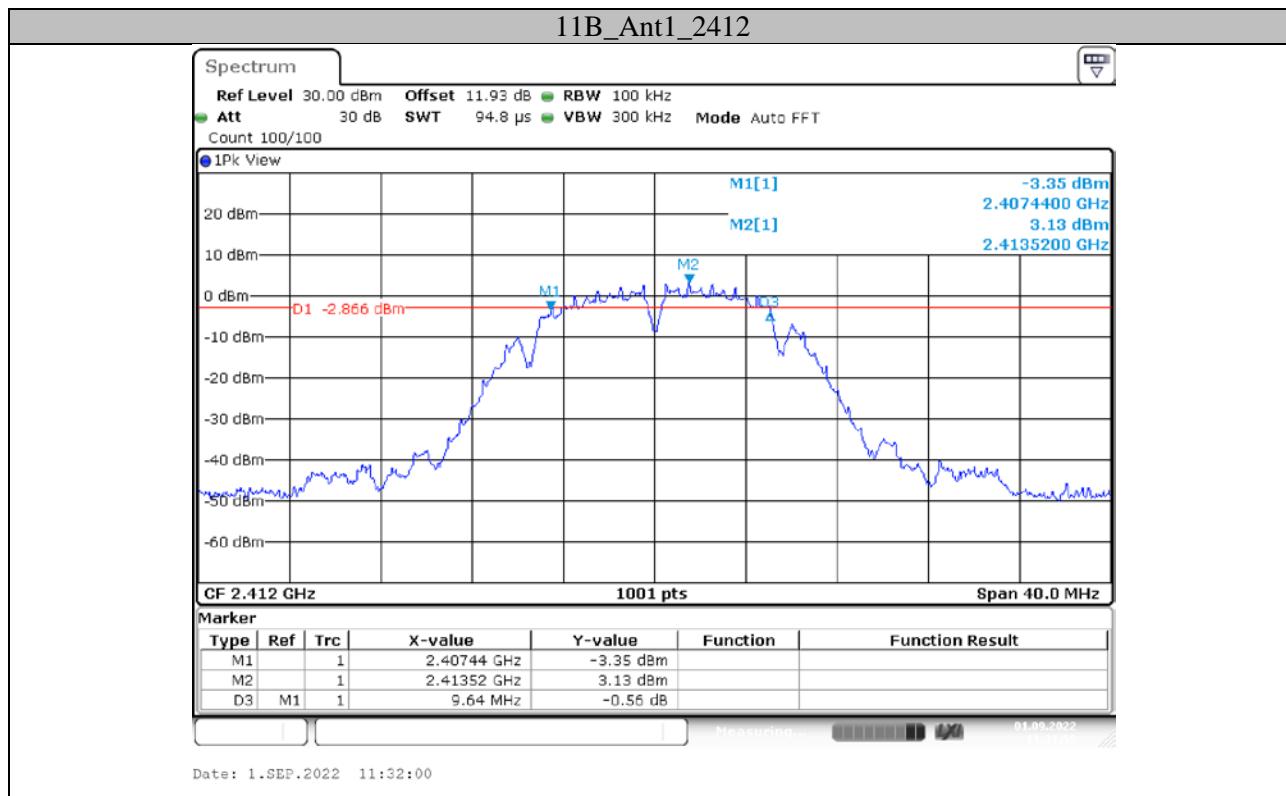
## APPENDIX Wi-Fi

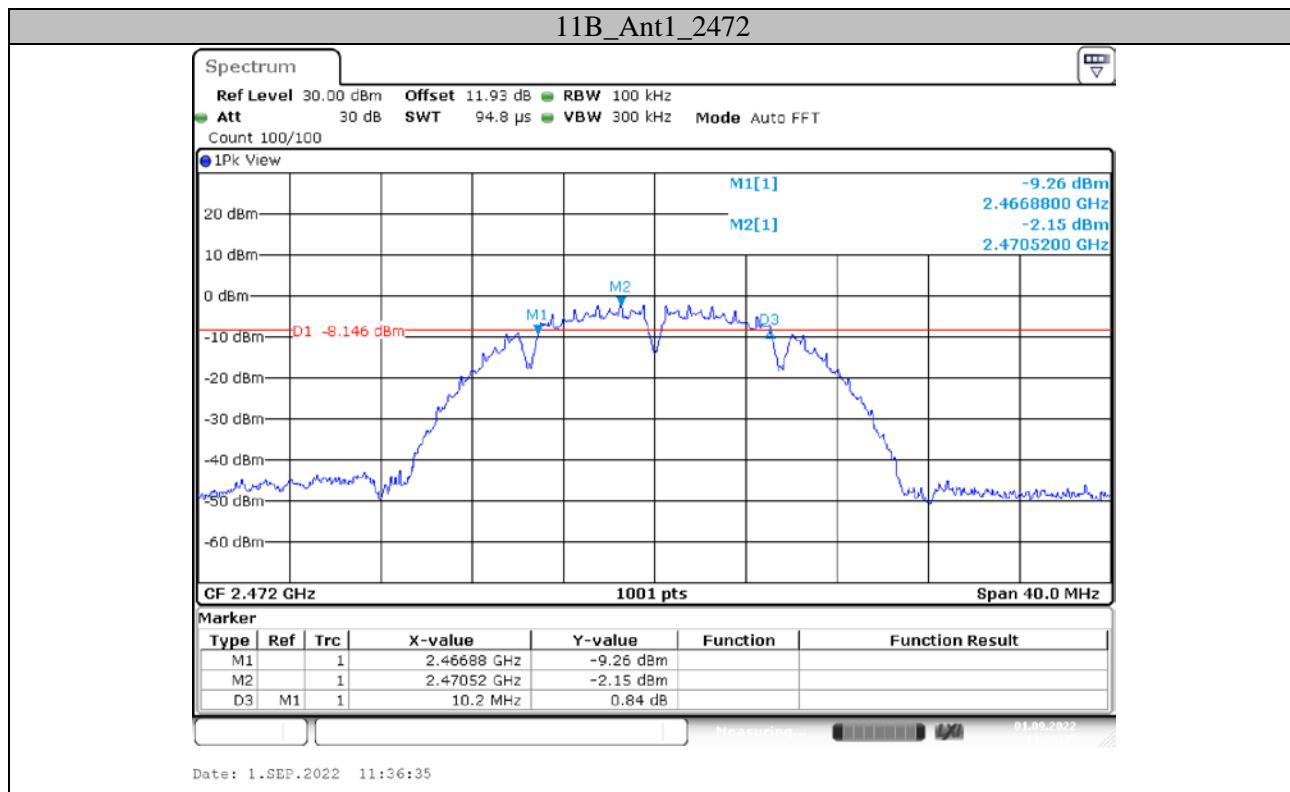
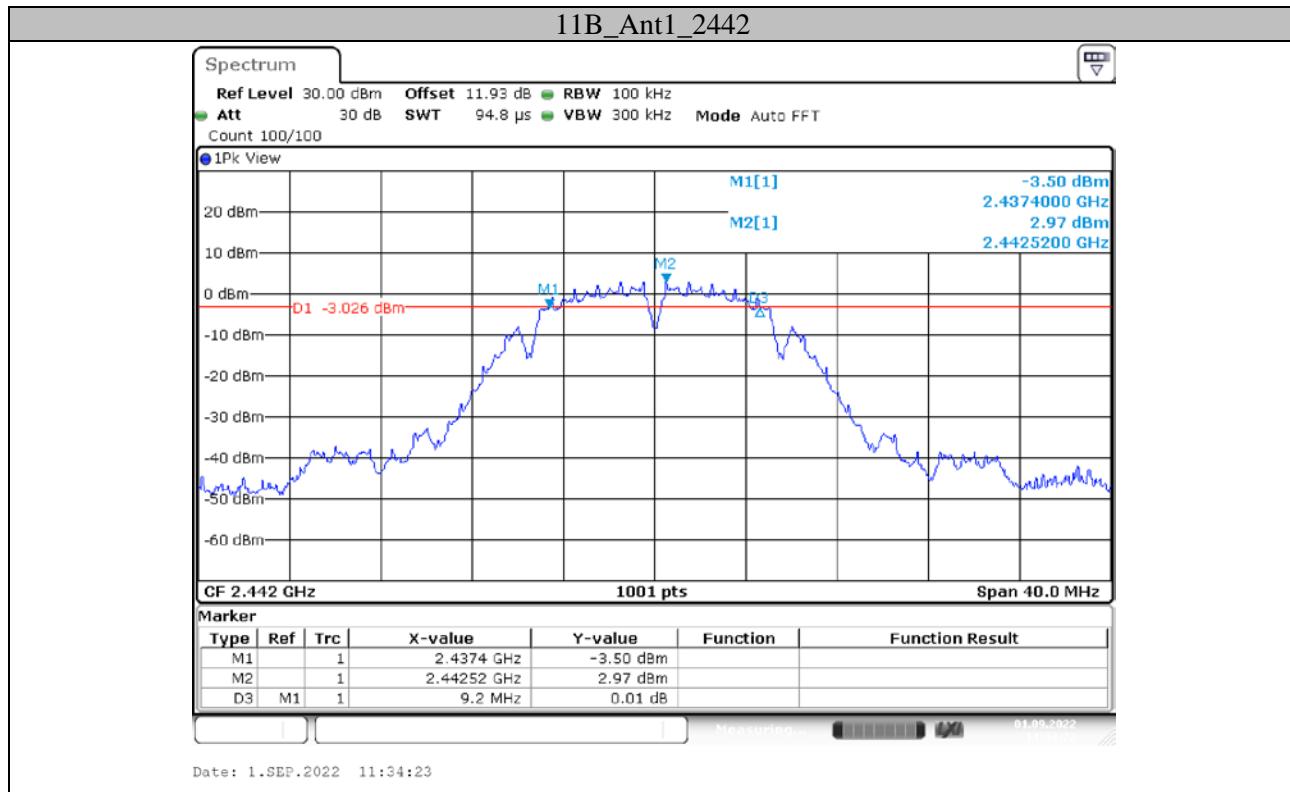
### Appendix A: 6dB Emission Bandwidth

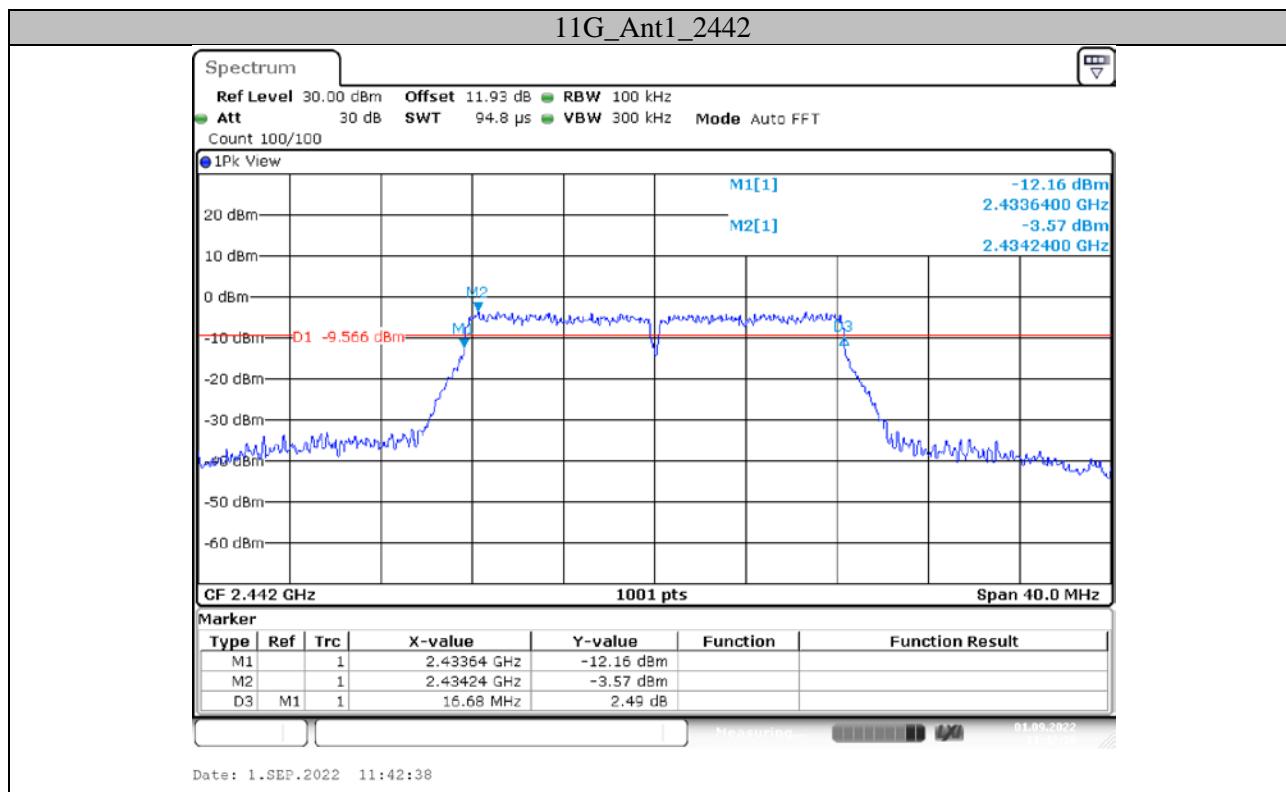
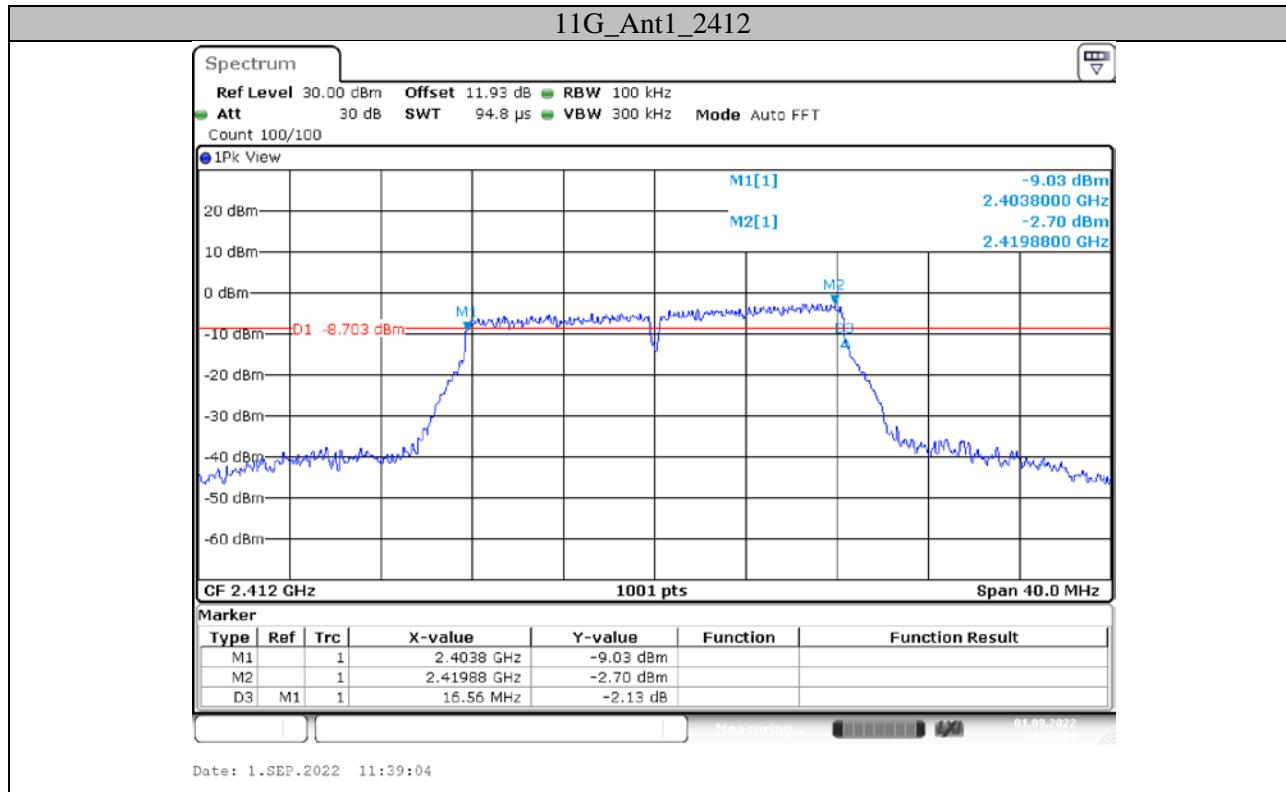
#### Test Result

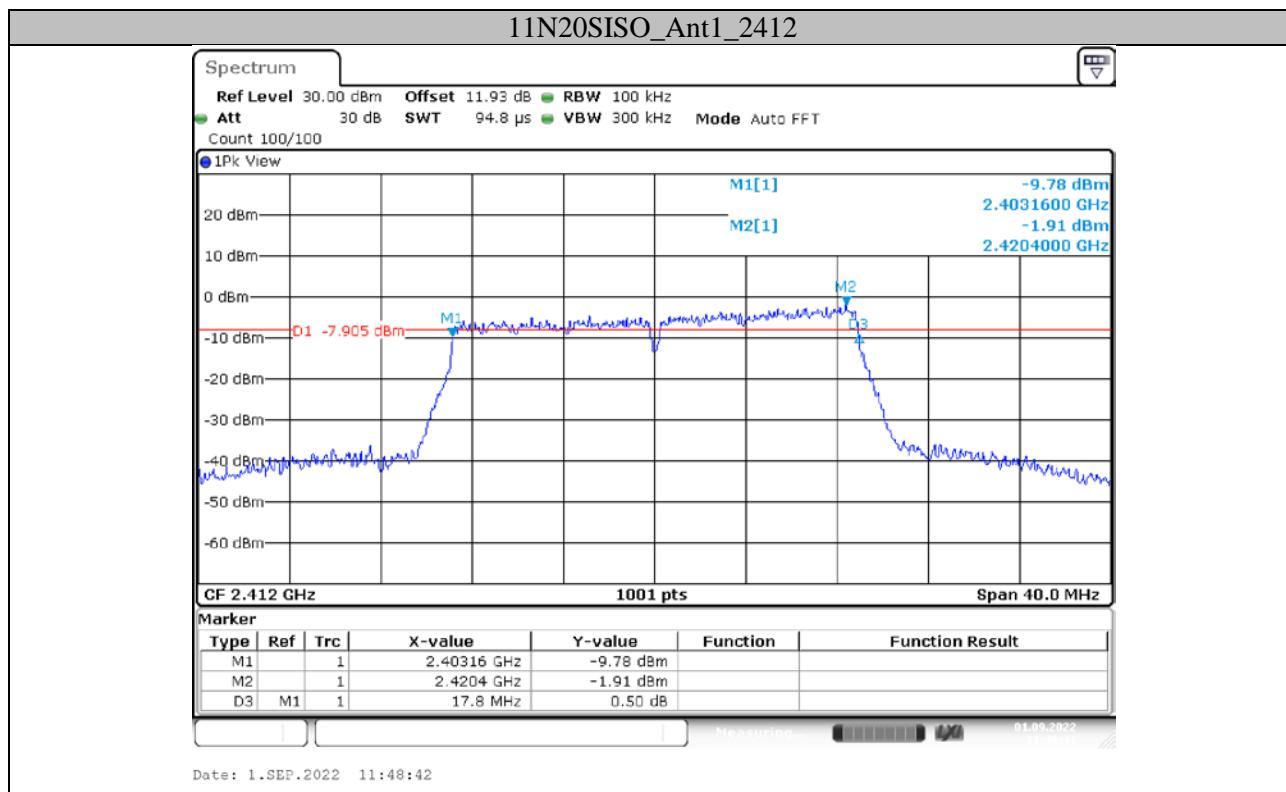
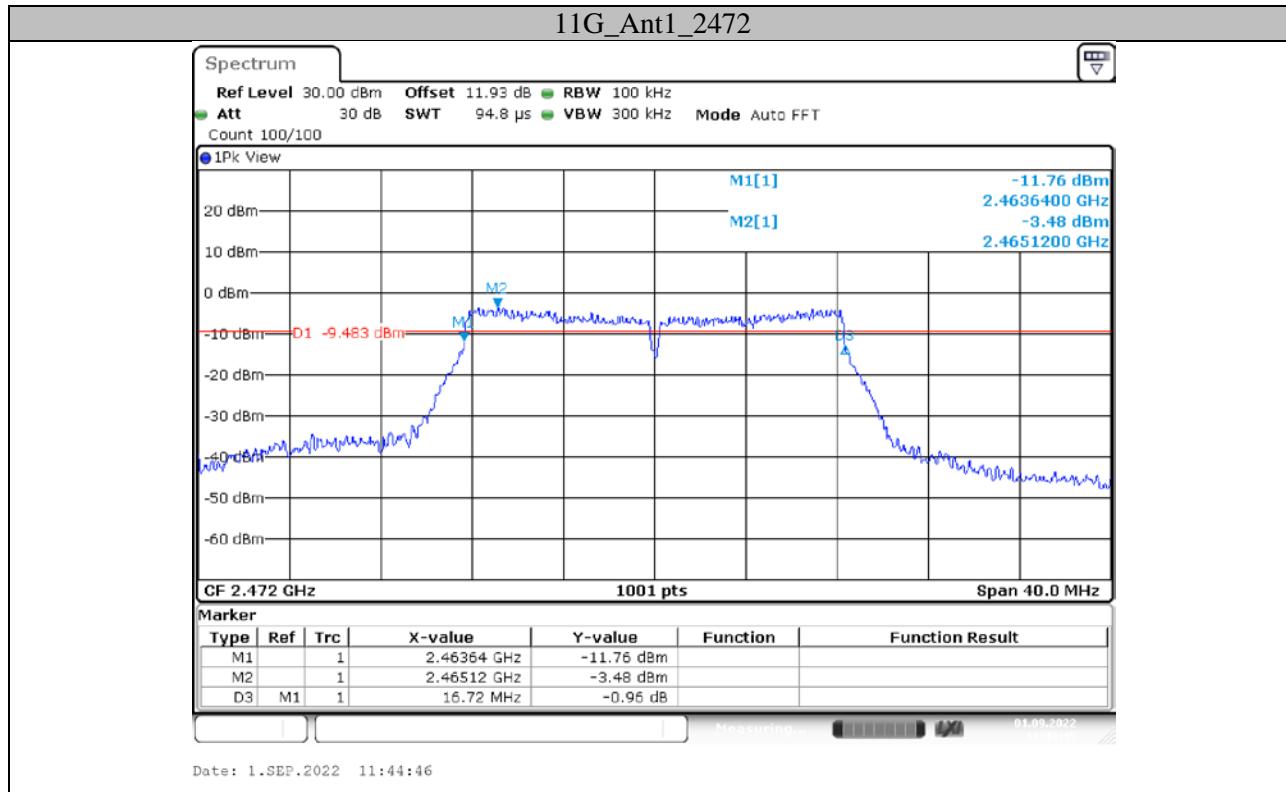
Test Mode	Antenna	Channel [MHz]	DTS BW [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.640	0.5	PASS
		2442	9.200	0.5	PASS
		2472	10.200	0.5	PASS
11G	Ant1	2412	16.560	0.5	PASS
		2442	16.680	0.5	PASS
		2472	16.720	0.5	PASS
11N20SISO	Ant1	2412	17.800	0.5	PASS
		2442	17.920	0.5	PASS
		2472	17.920	0.5	PASS
11N40SISO	Ant1	2422	35.520	0.5	PASS
		2442	36.640	0.5	PASS
		2462	36.320	0.5	PASS

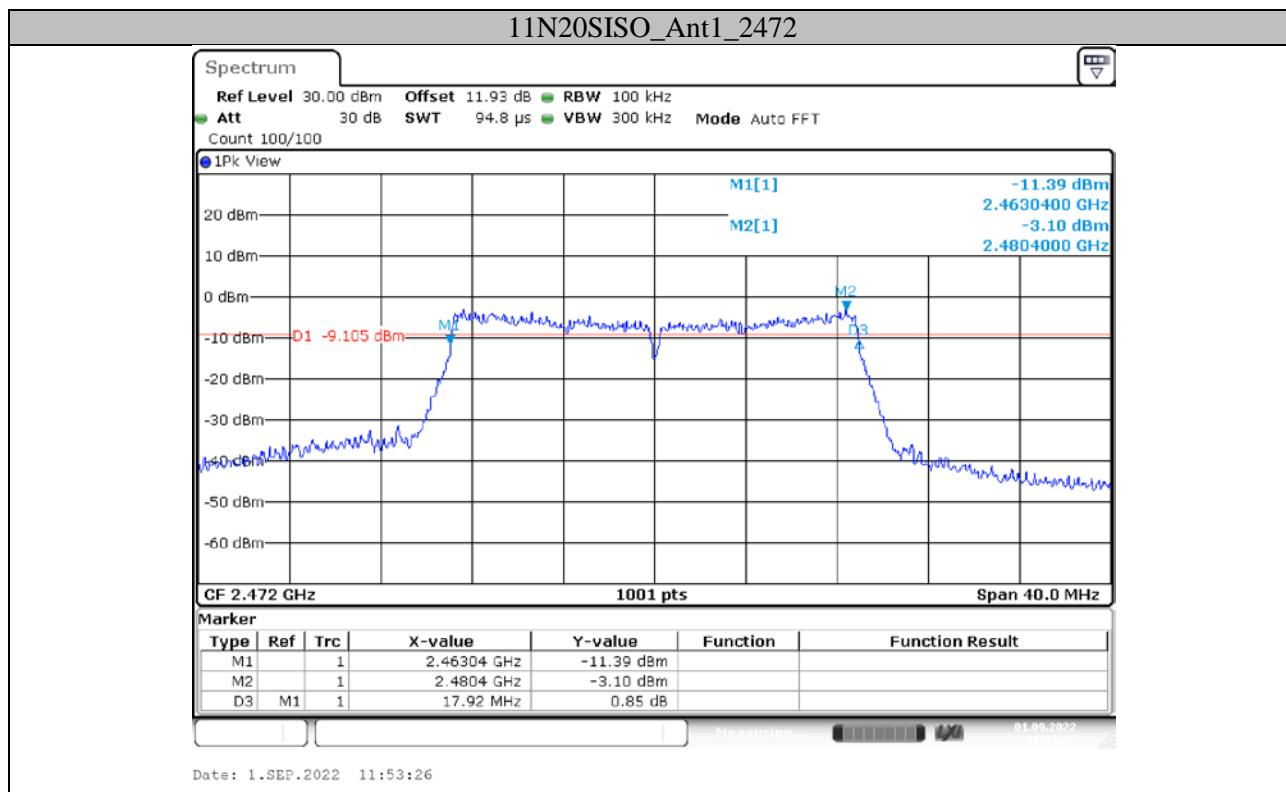
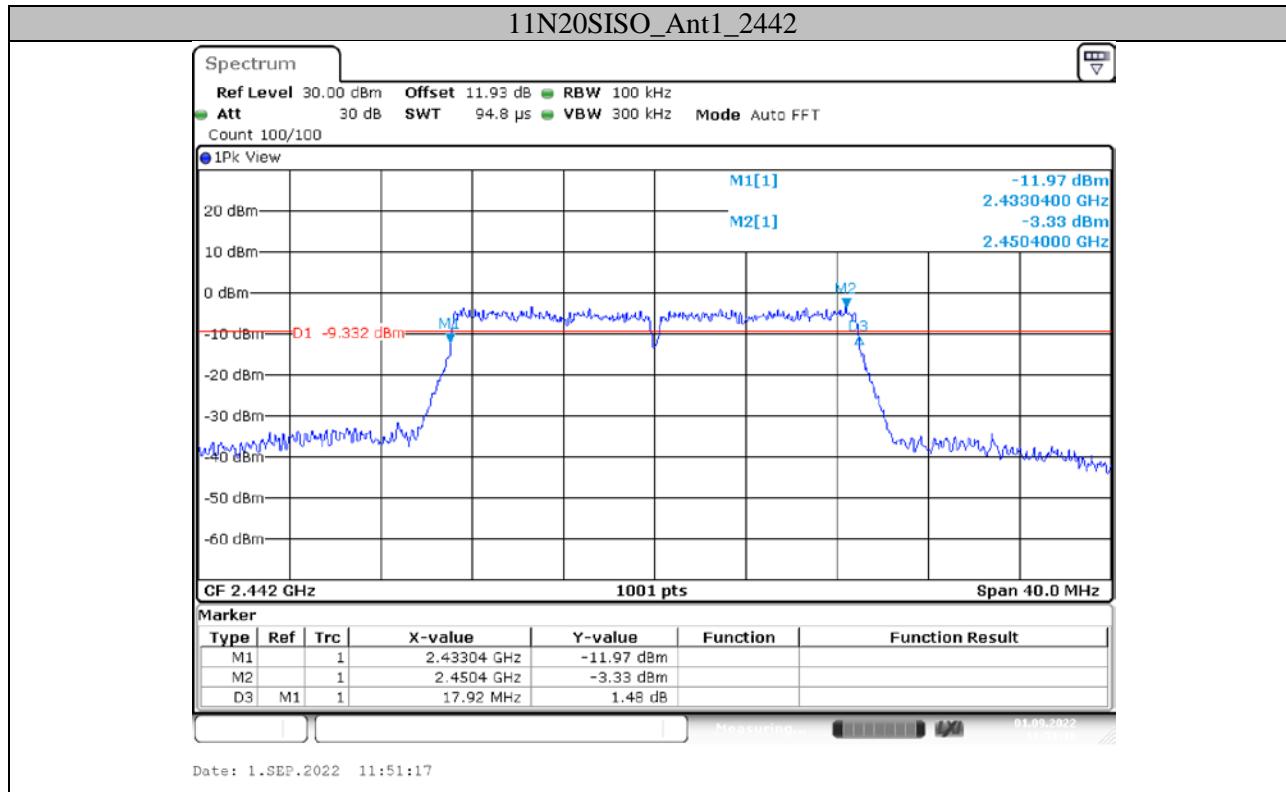
#### Test Graphs

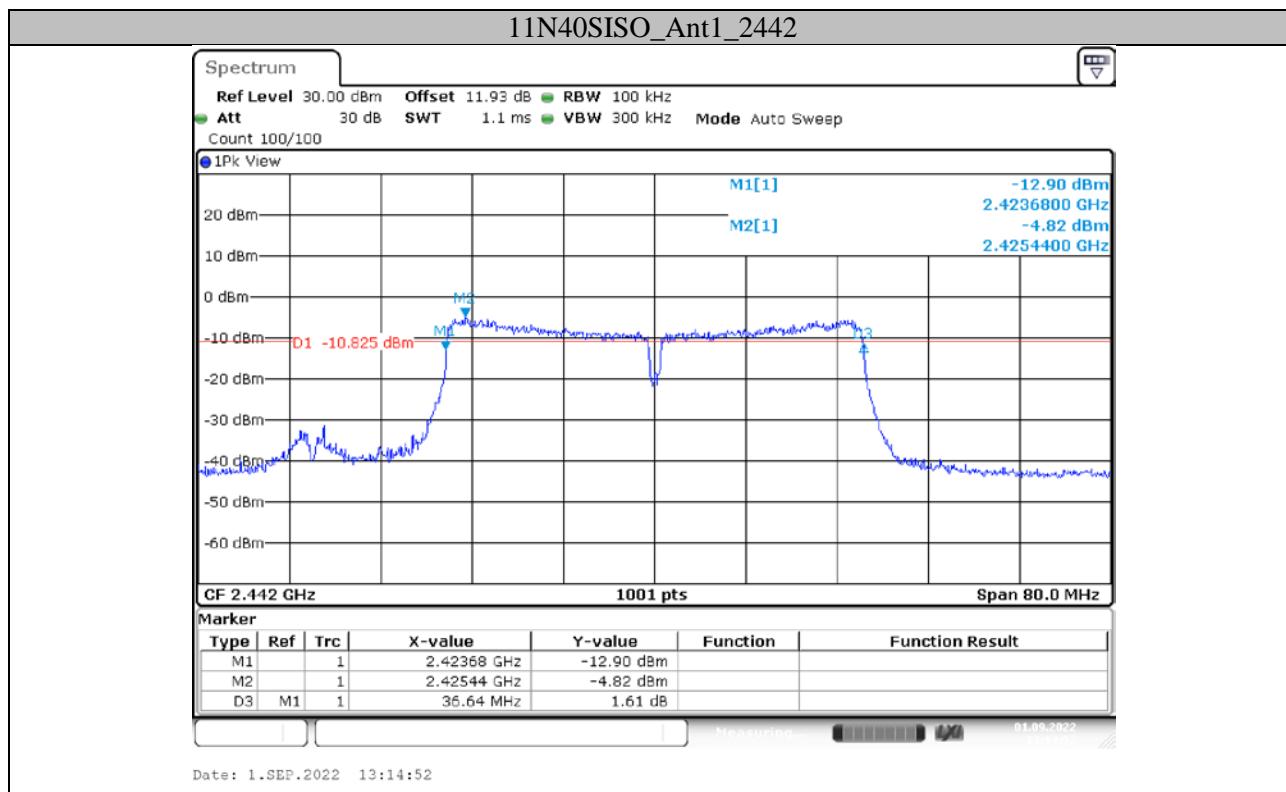
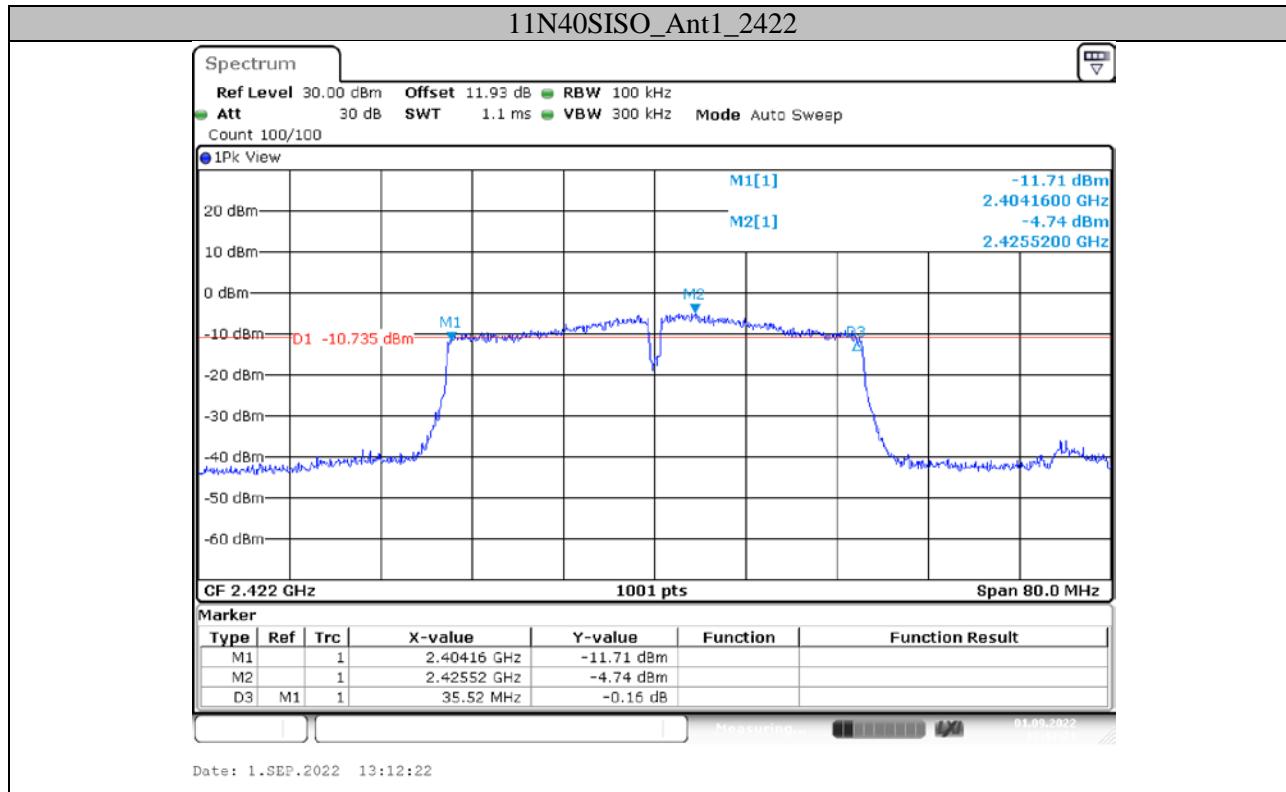


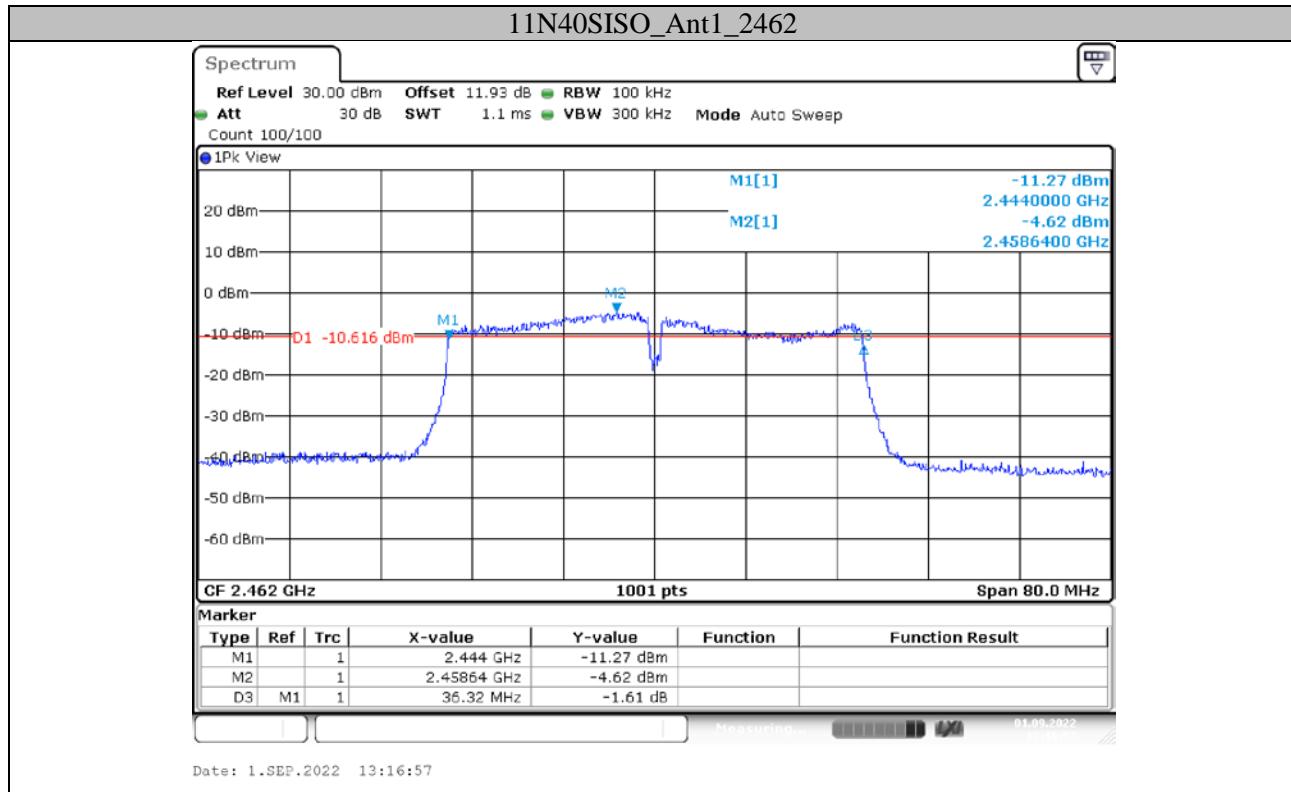










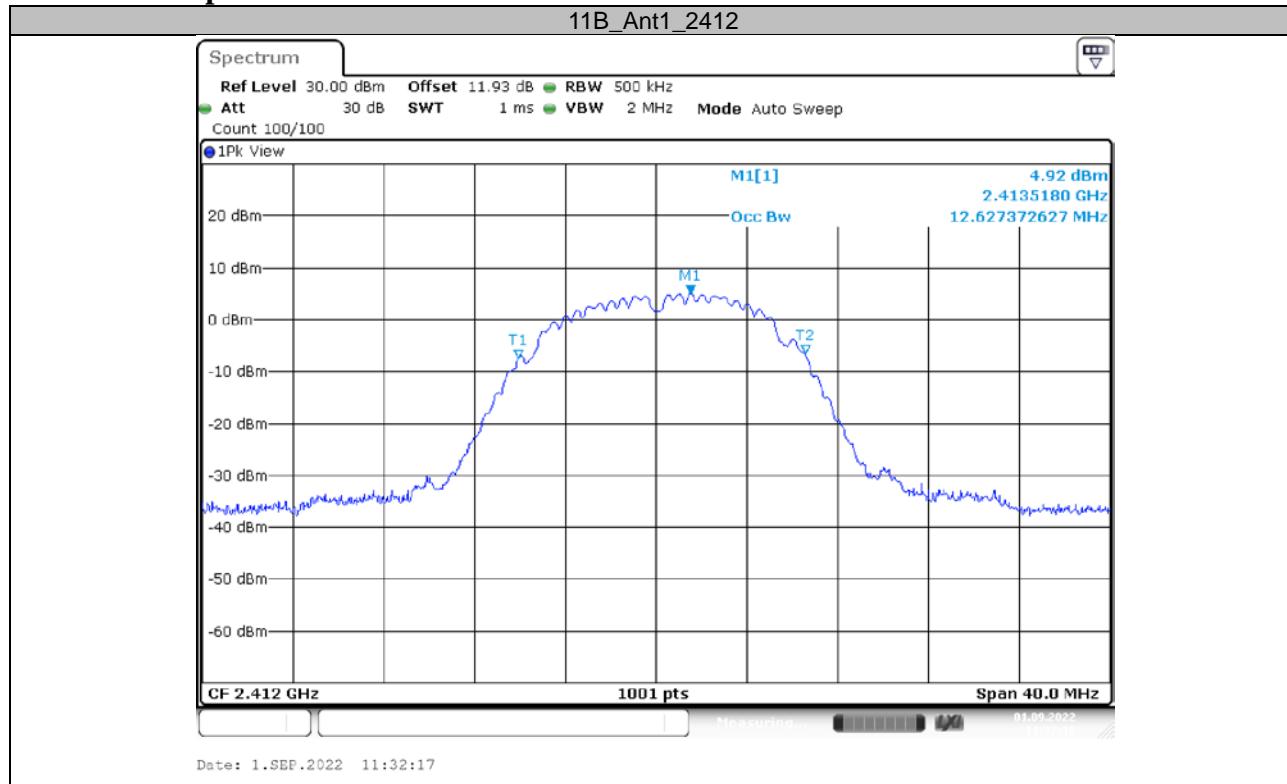


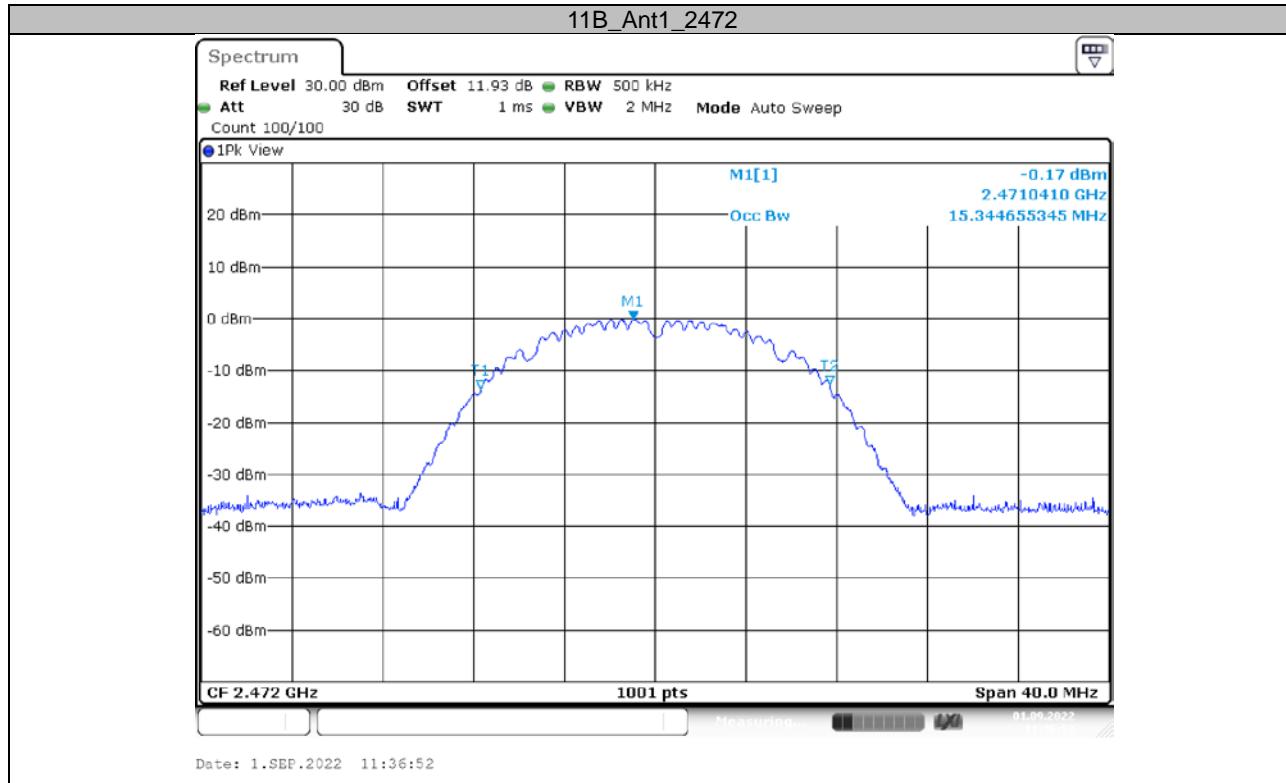
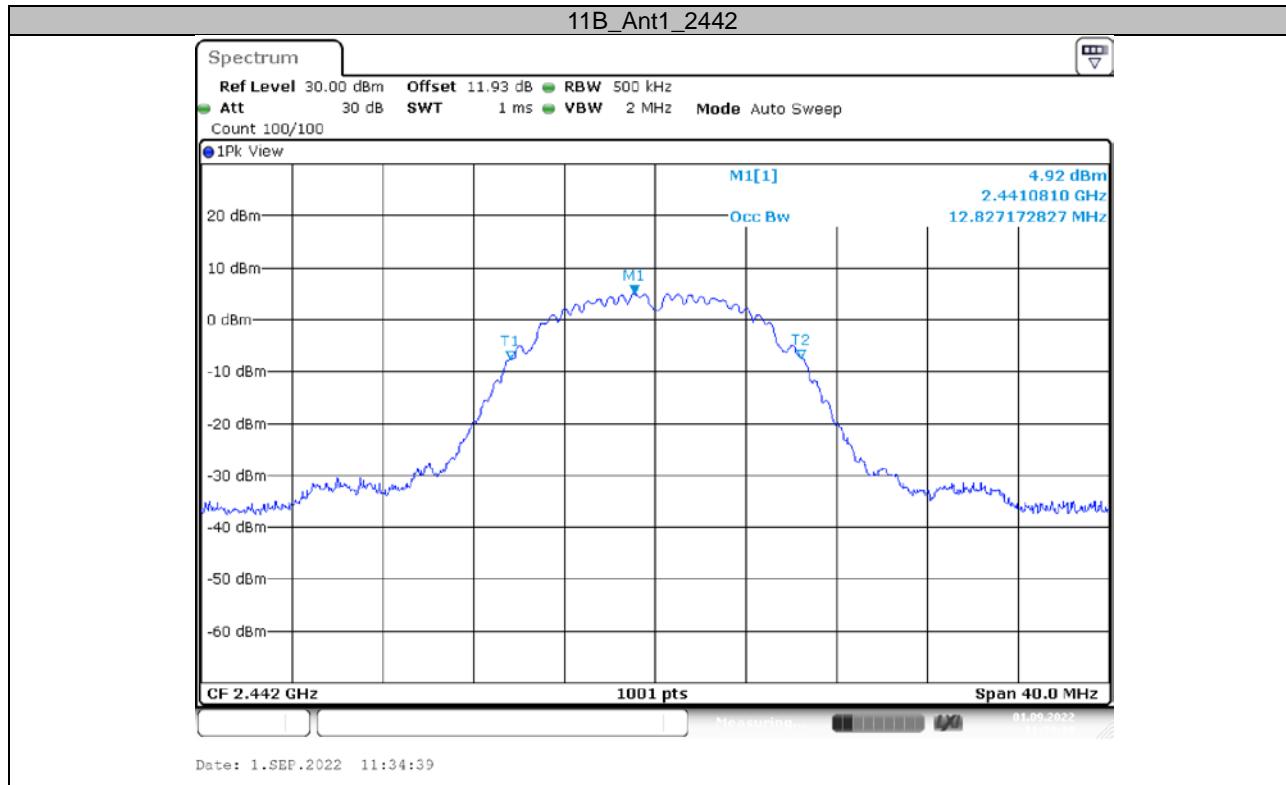
## Appendix B: Occupied Channel Bandwidth

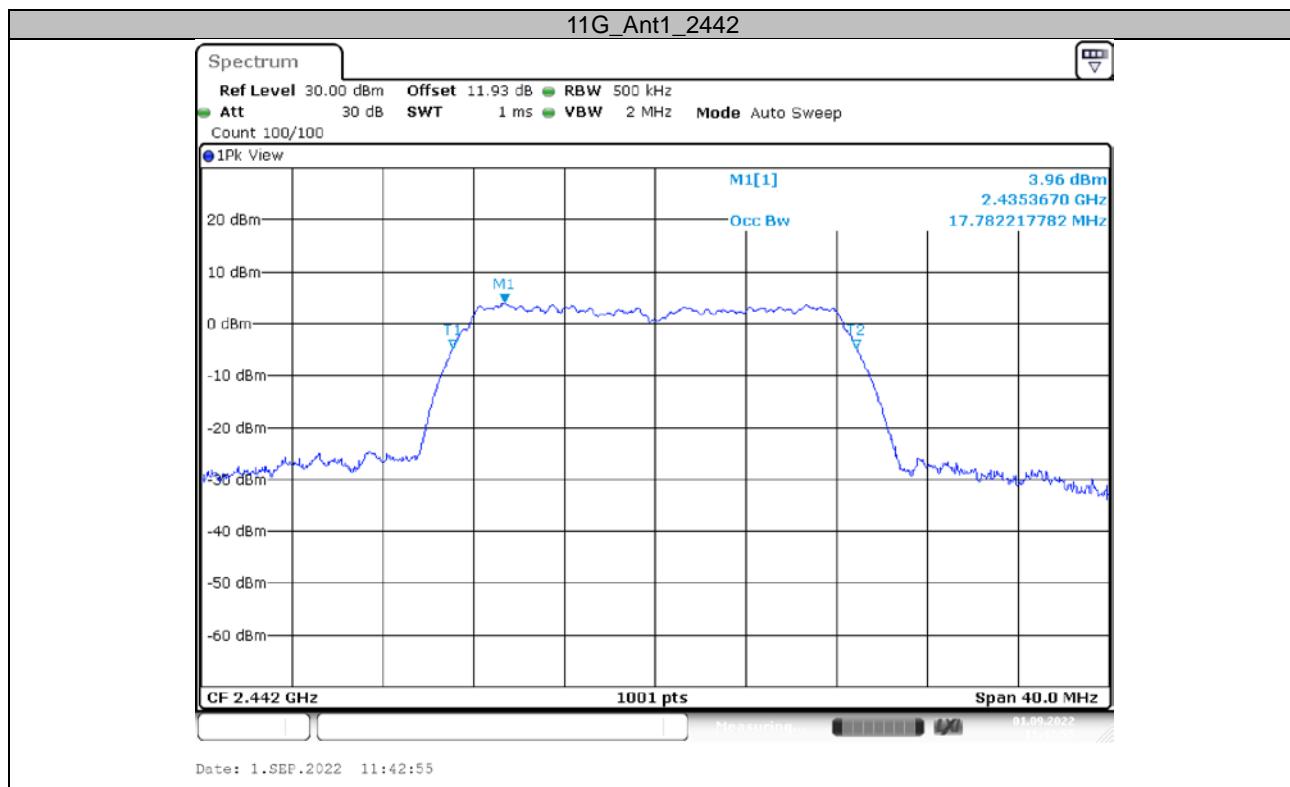
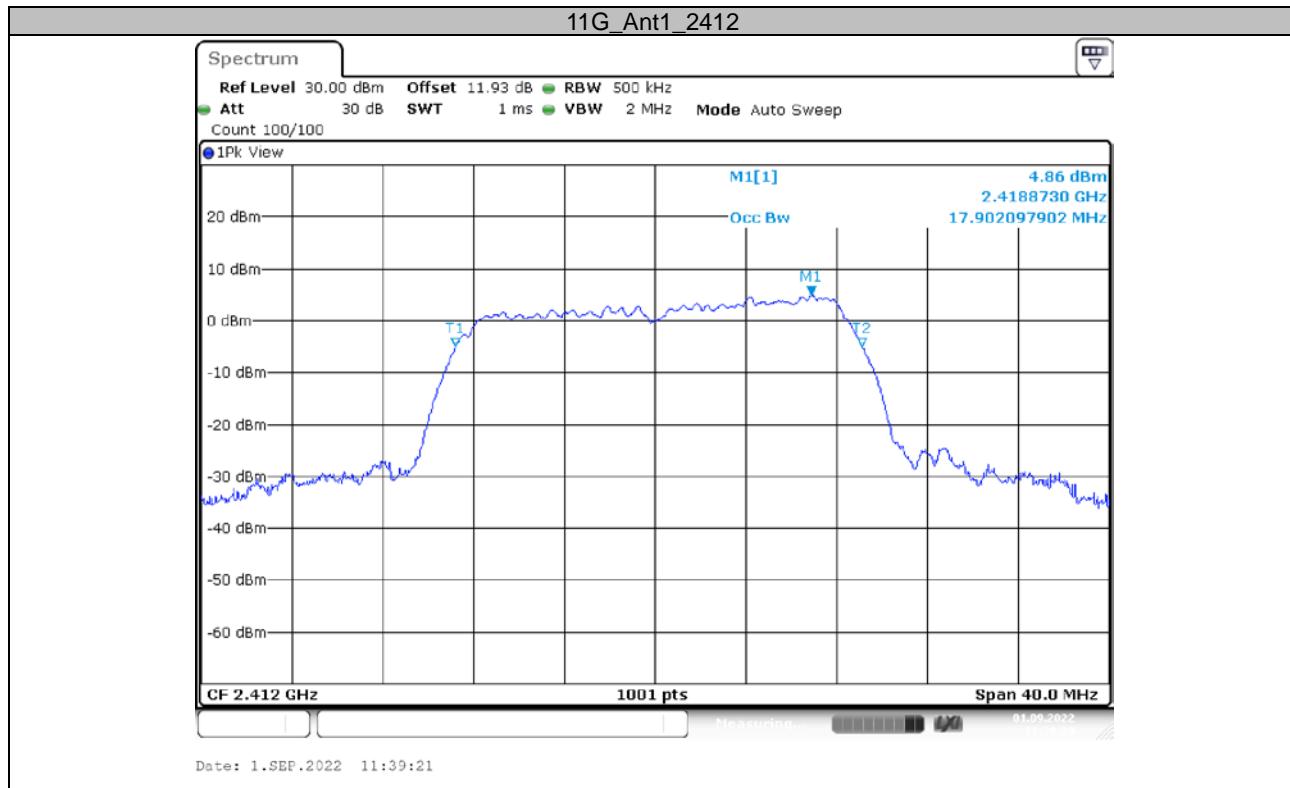
### Test Result

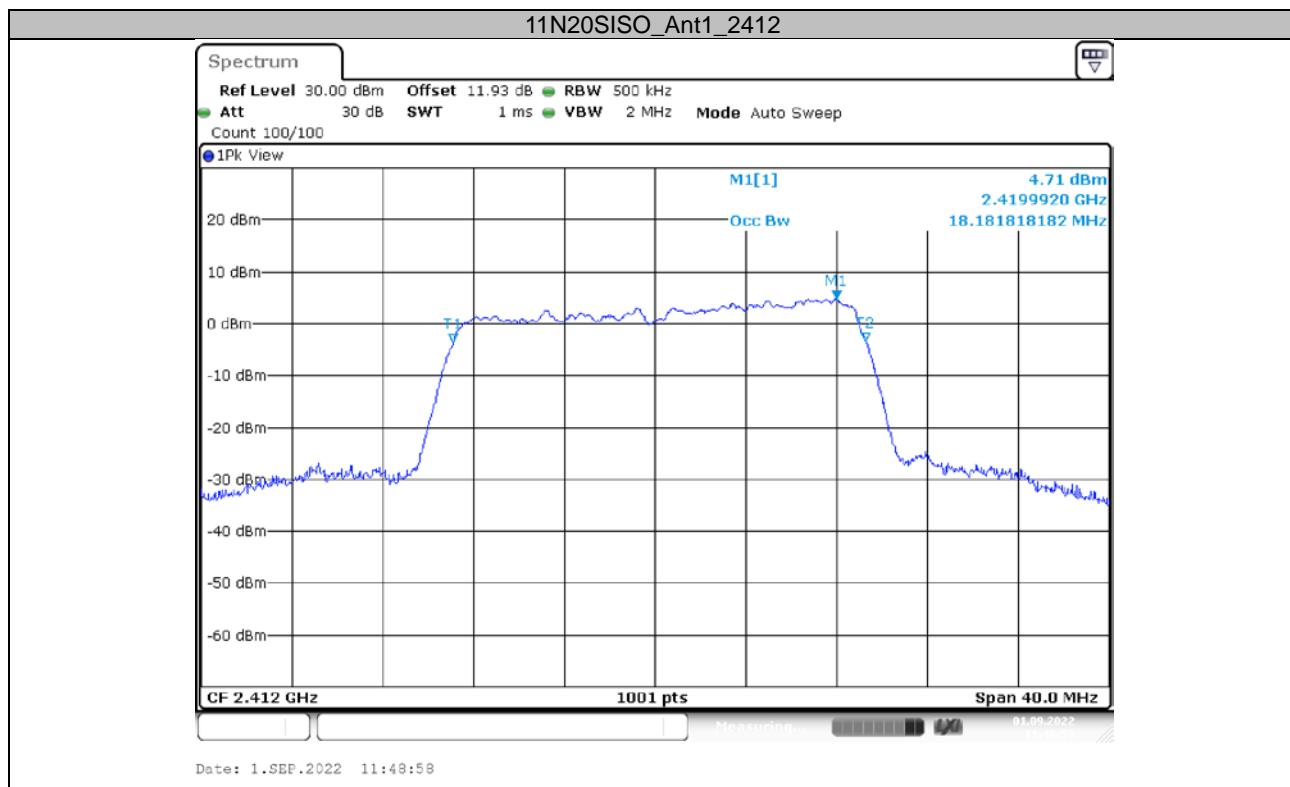
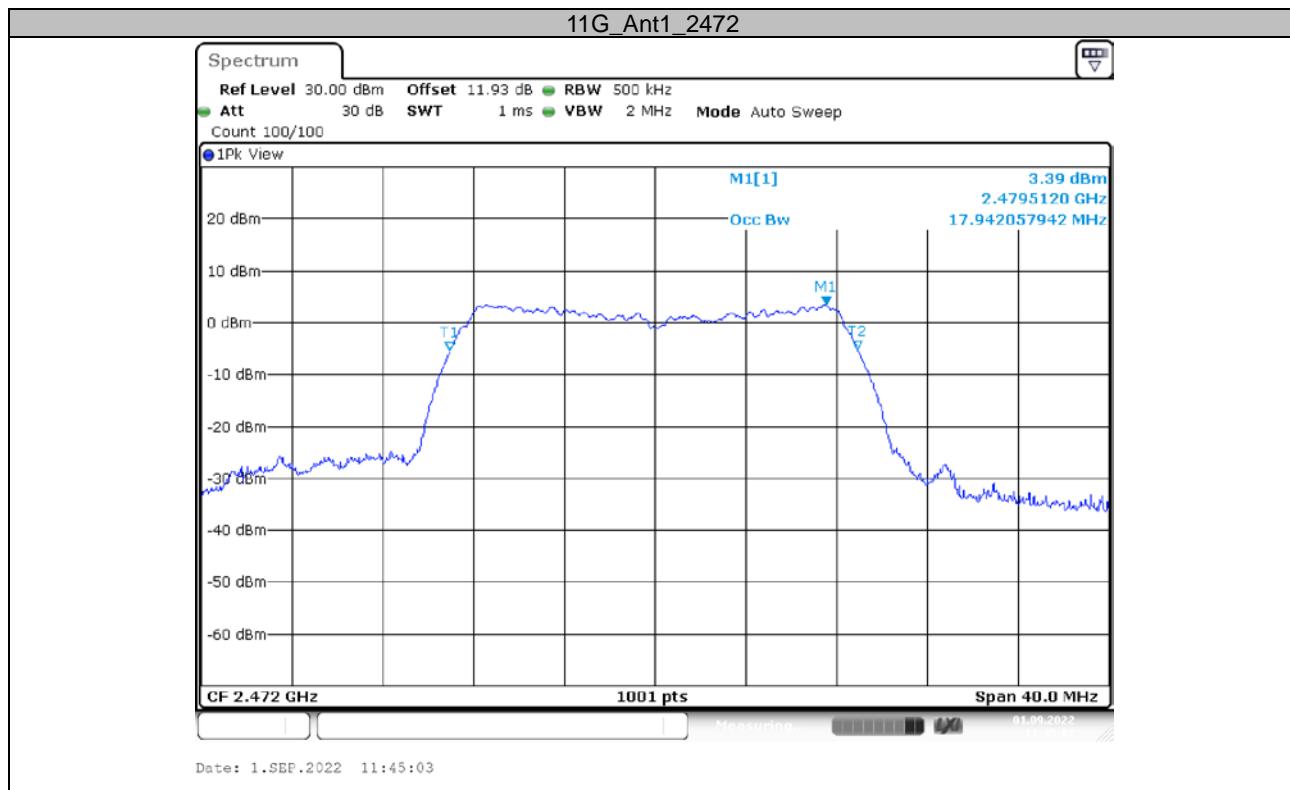
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.627	2405.926	2418.553	---	PASS
		2442	12.827	2435.606	2448.434	---	PASS
		2472	15.345	2464.328	2479.672	---	PASS
11G	Ant1	2412	17.902	2403.209	2421.111	---	PASS
		2442	17.782	2433.089	2450.871	---	PASS
		2472	17.942	2462.969	2480.911	---	PASS
11N20SISO	Ant1	2412	18.182	2403.089	2421.271	---	PASS
		2442	18.262	2432.889	2451.151	---	PASS
		2472	18.382	2462.809	2481.191	---	PASS
11N40SISO	Ant1	2422	36.044	2404.098	2440.142	---	PASS
		2442	37.163	2423.459	2460.621	---	PASS
		2462	36.523	2443.938	2480.462	---	PASS

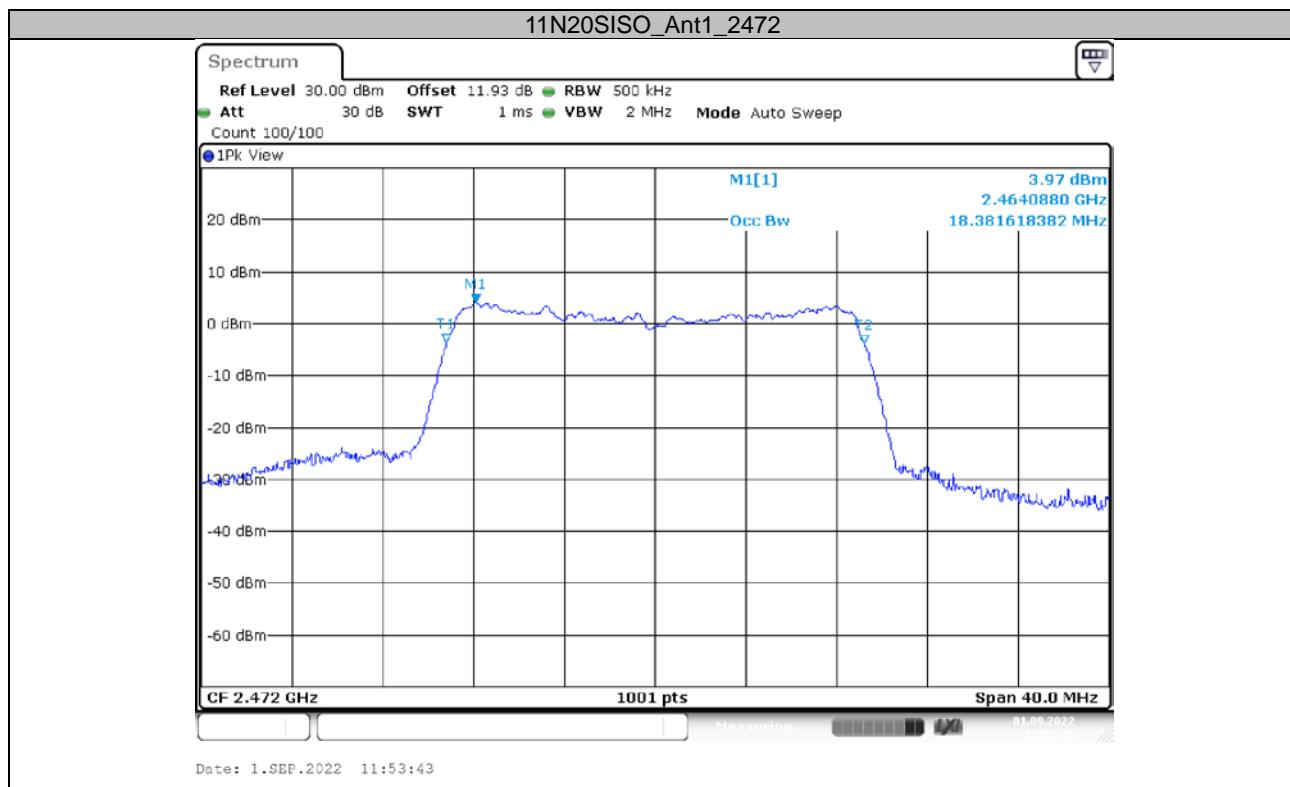
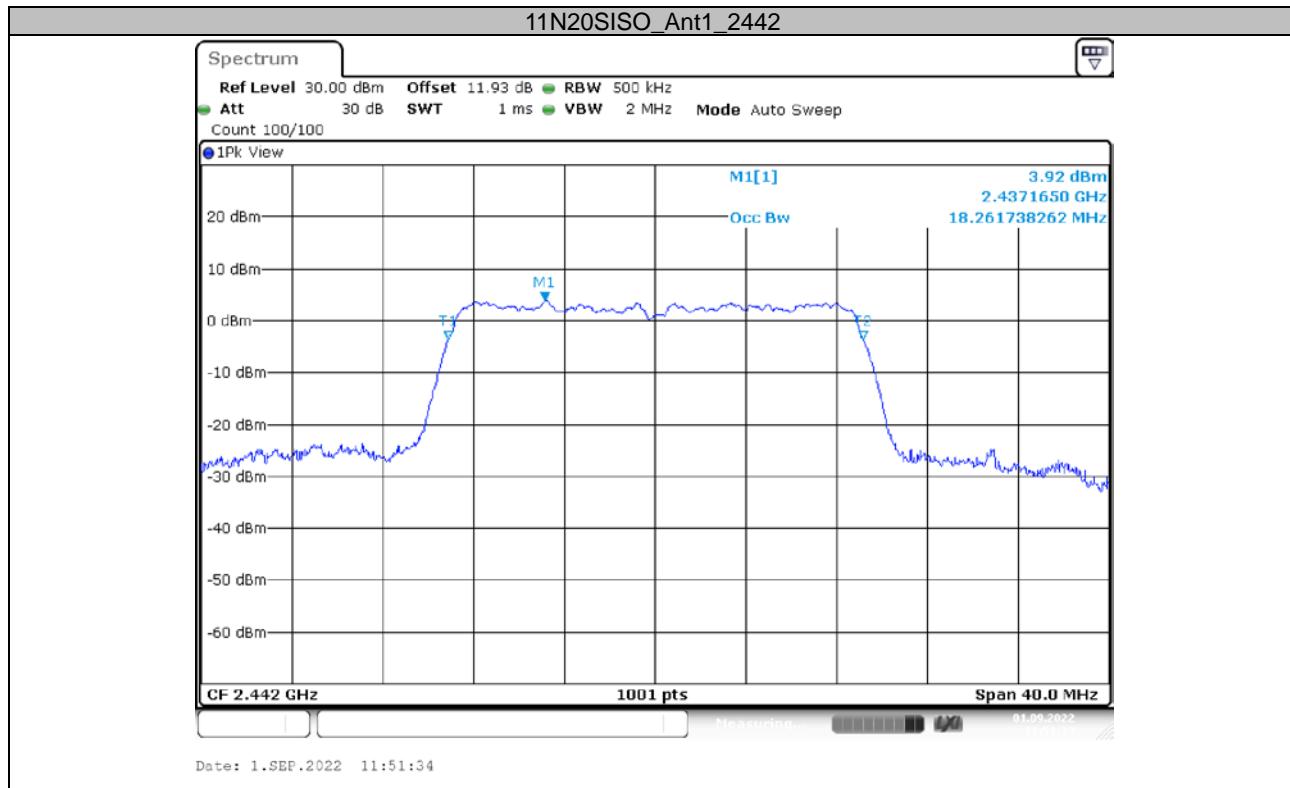
### Test Graphs

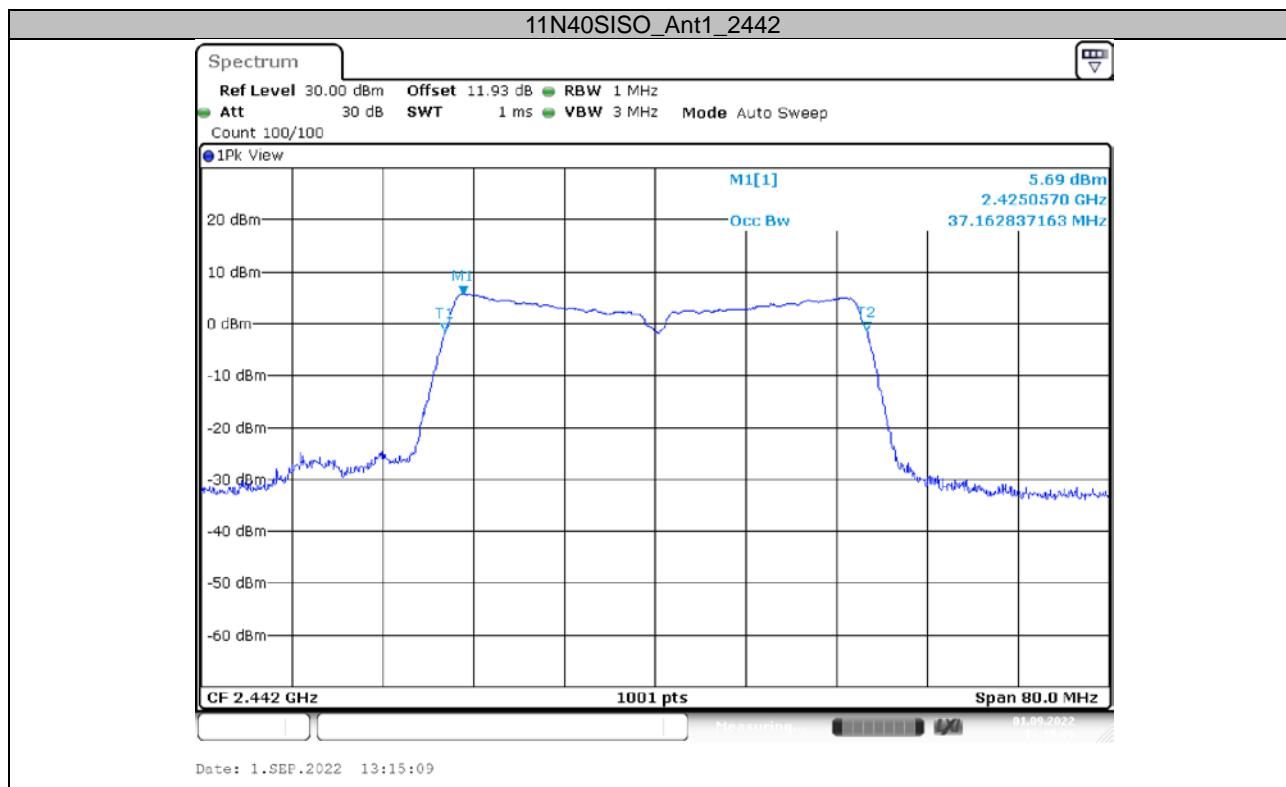
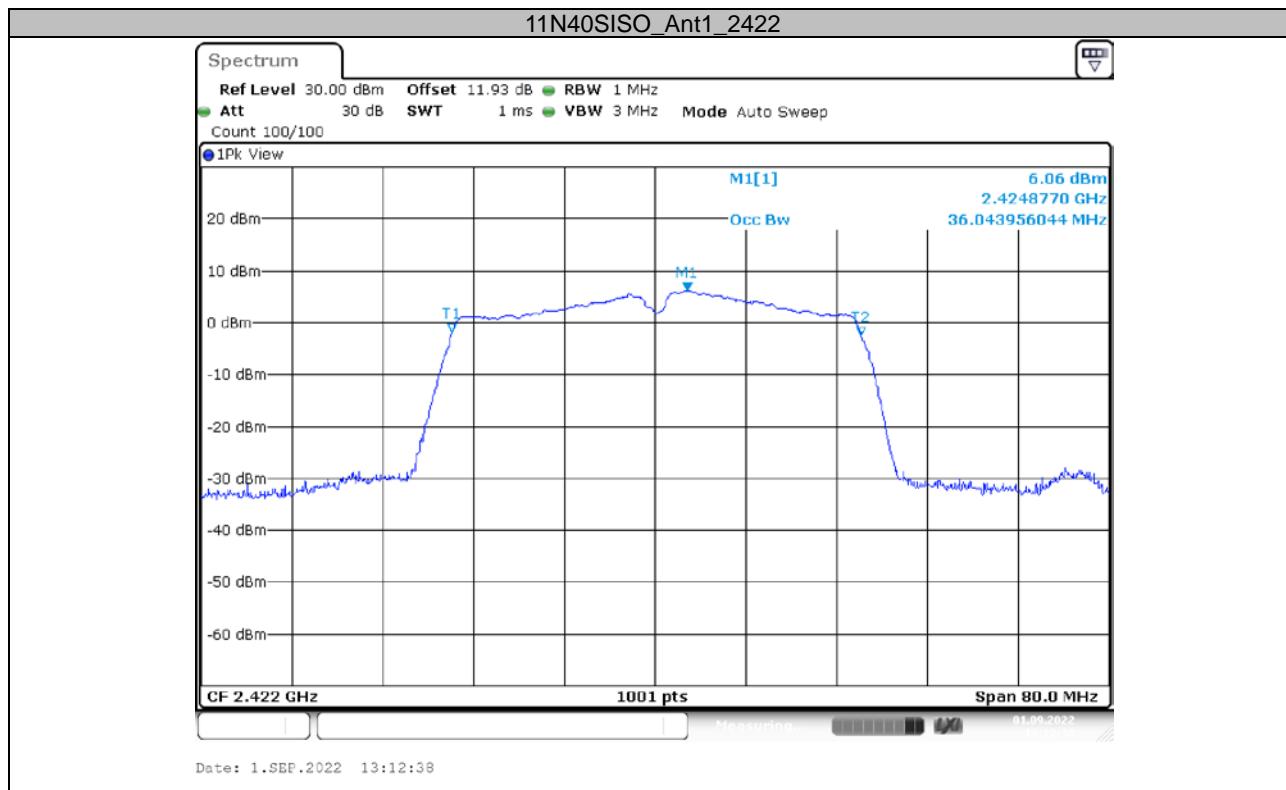


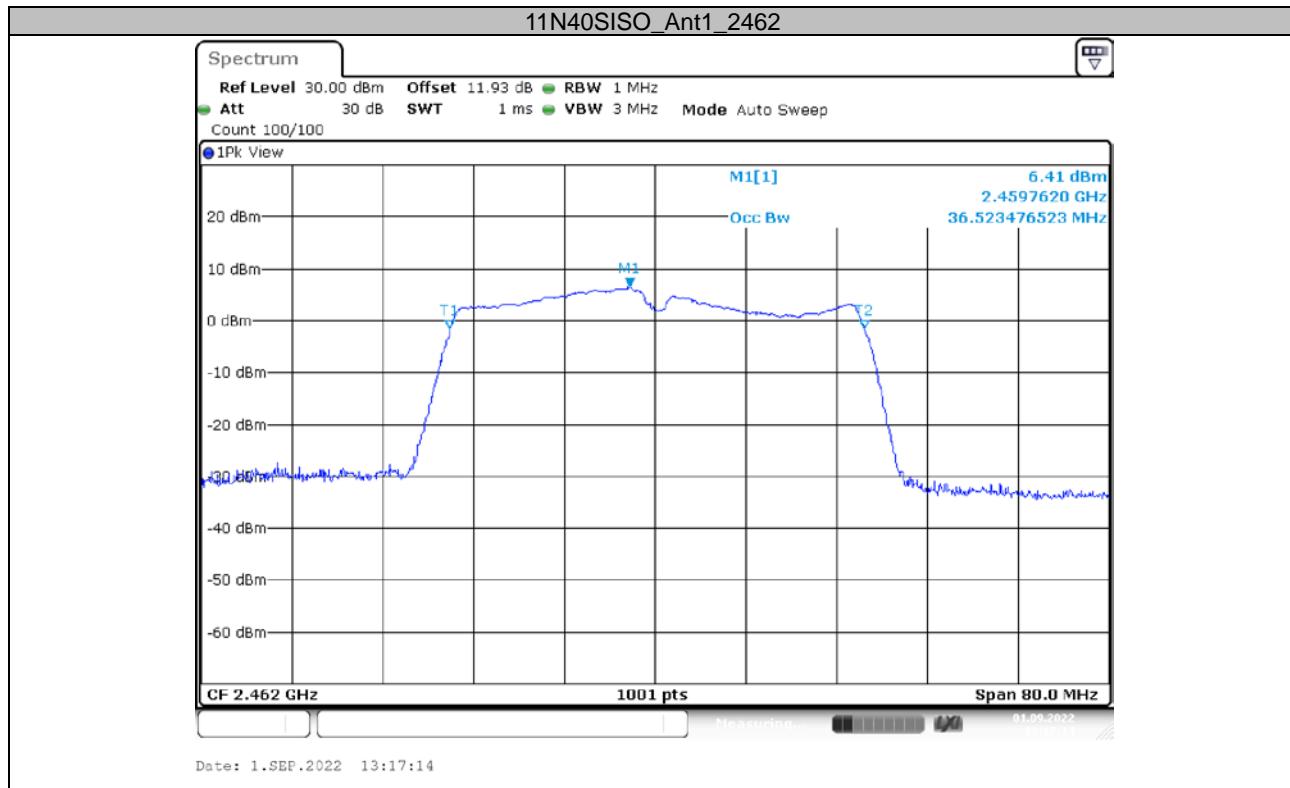












## Appendix C: Maximum conducted output power

### Test Result

#### (Peak Power)

Test Mode	Antenna	Channel [MHz]	Result[dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.47	<=30	PASS
		2442	<b>14.50</b>	<=30	PASS
		2472	13.42	<=30	PASS
11G	Ant1	2412	14.87	<=30	PASS
		2442	<b>15.60</b>	<=30	PASS
		2472	14.27	<=30	PASS
11N20SISO	Ant1	2412	15.41	<=30	PASS
		2442	<b>15.53</b>	<=30	PASS
		2472	14.25	<=30	PASS
11N40SISO	Ant1	2422	14.89	<=30	PASS
		2442	13.89	<=30	PASS
		2462	<b>14.91</b>	<=30	PASS

#### (Average Power)

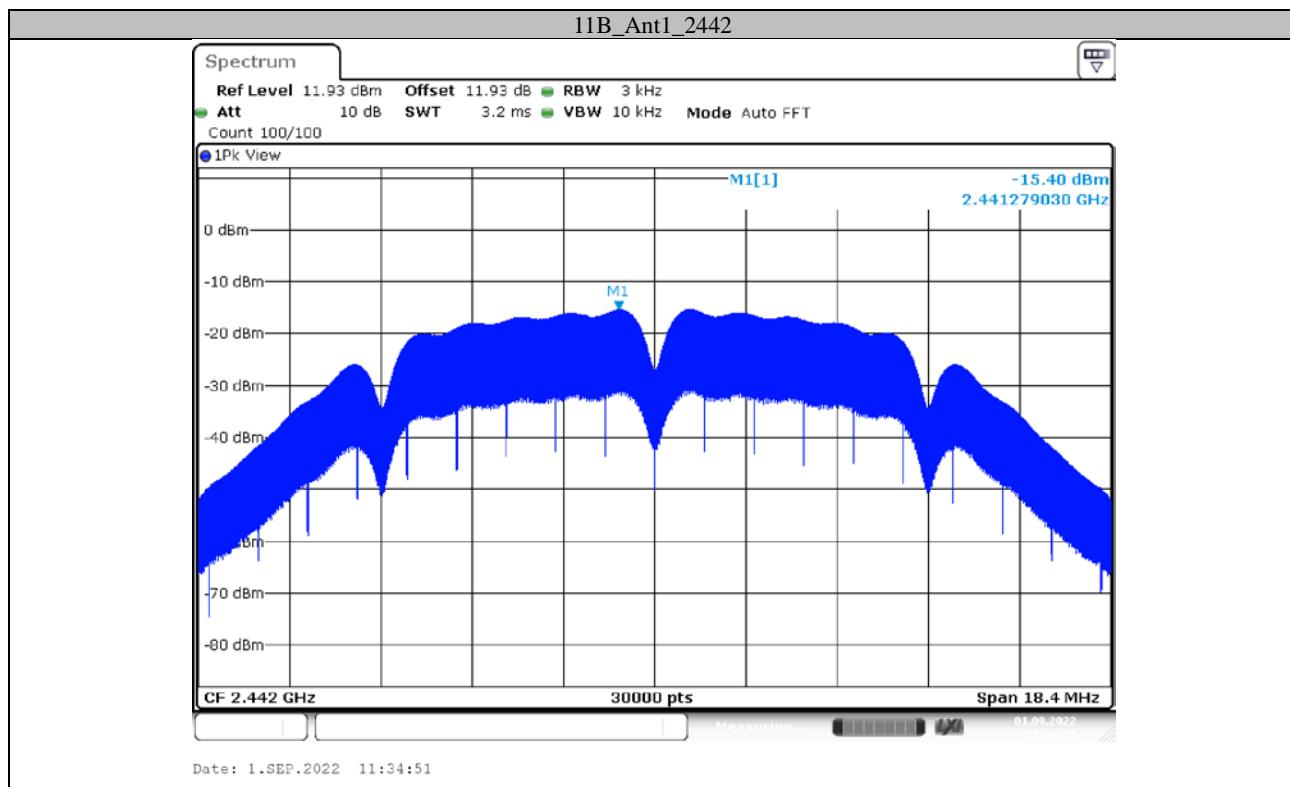
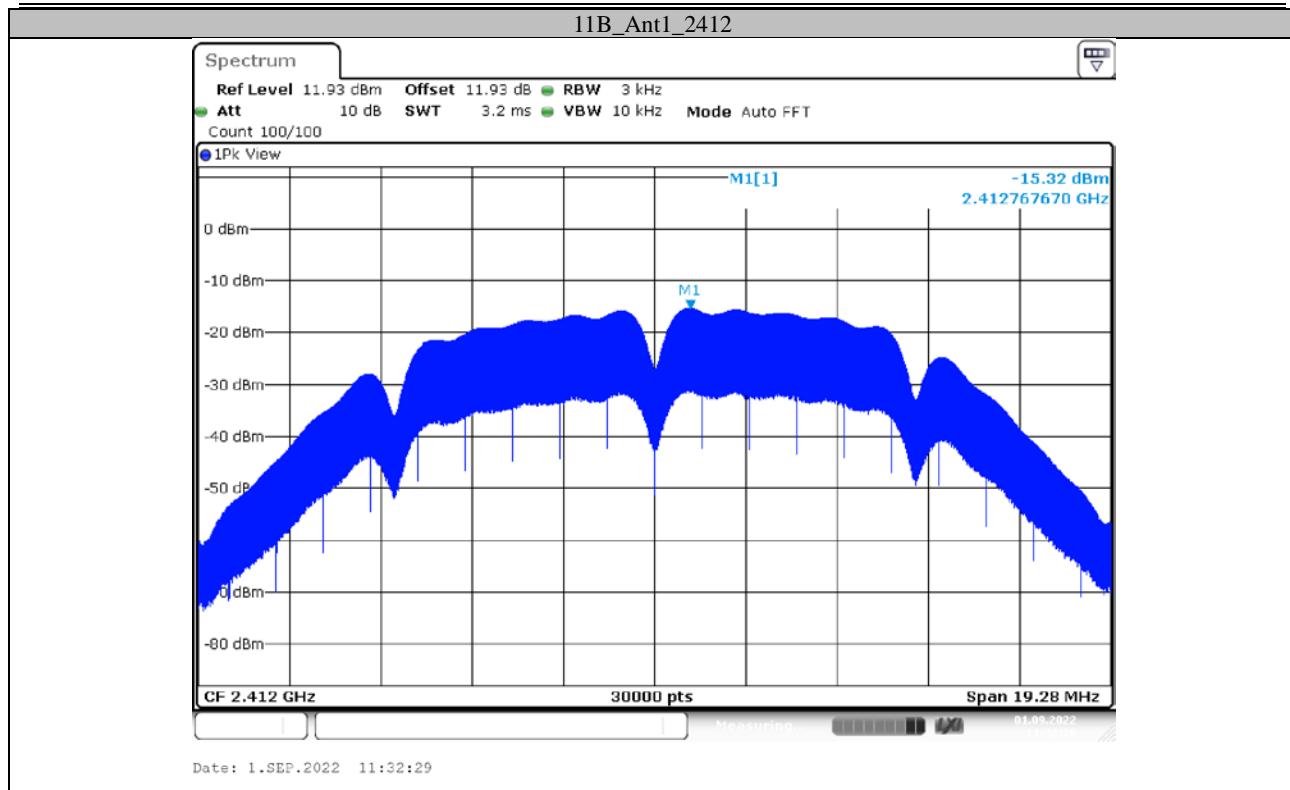
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	12.30	<=30	PASS
		2442	12.80	<=30	PASS
		2472	11.89	<=30	PASS
11G	Ant1	2412	9.21	<=30	PASS
		2442	9.45	<=30	PASS
		2472	8.82	<=30	PASS
11N20SISO	Ant1	2412	9.07	<=30	PASS
		2442	9.32	<=30	PASS
		2472	8.72	<=30	PASS
11N40SISO	Ant1	2422	9.27	<=30	PASS
		2442	9.15	<=30	PASS
		2462	9.10	<=30	PASS

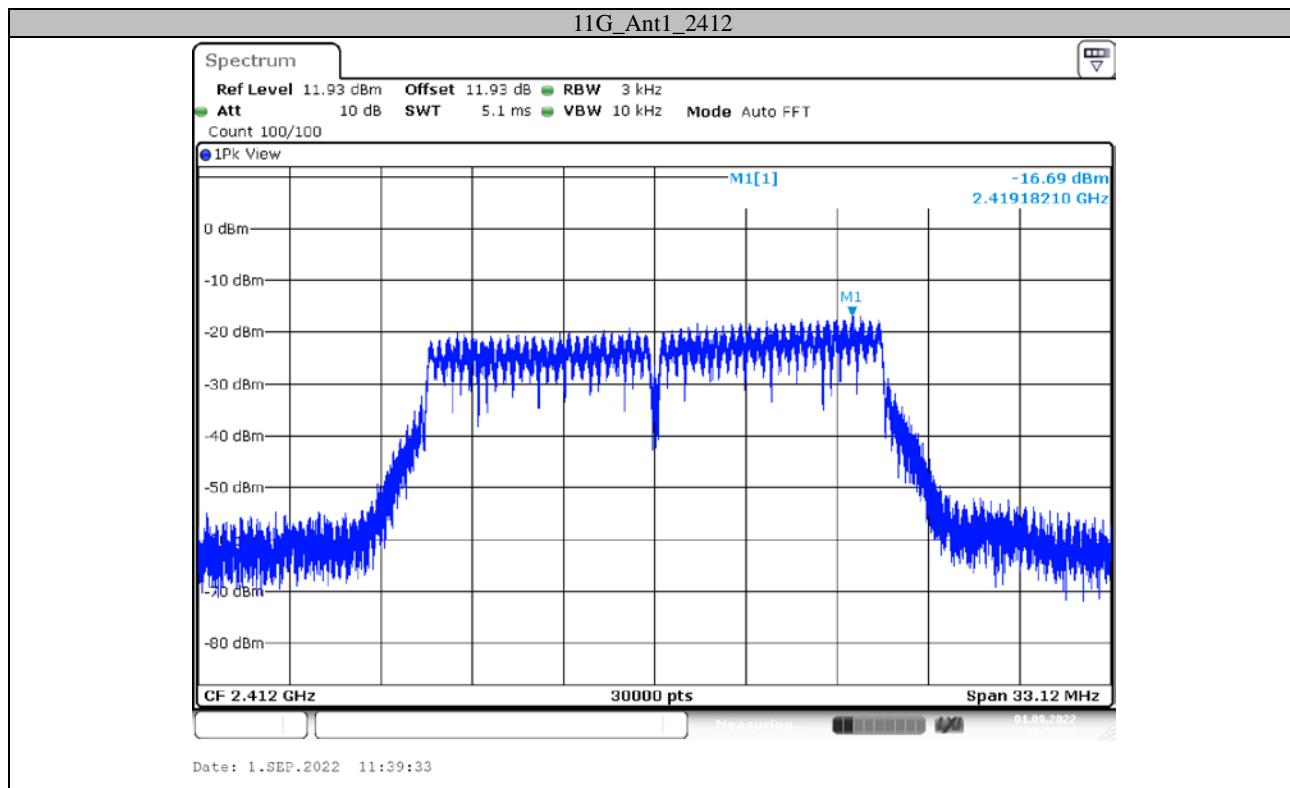
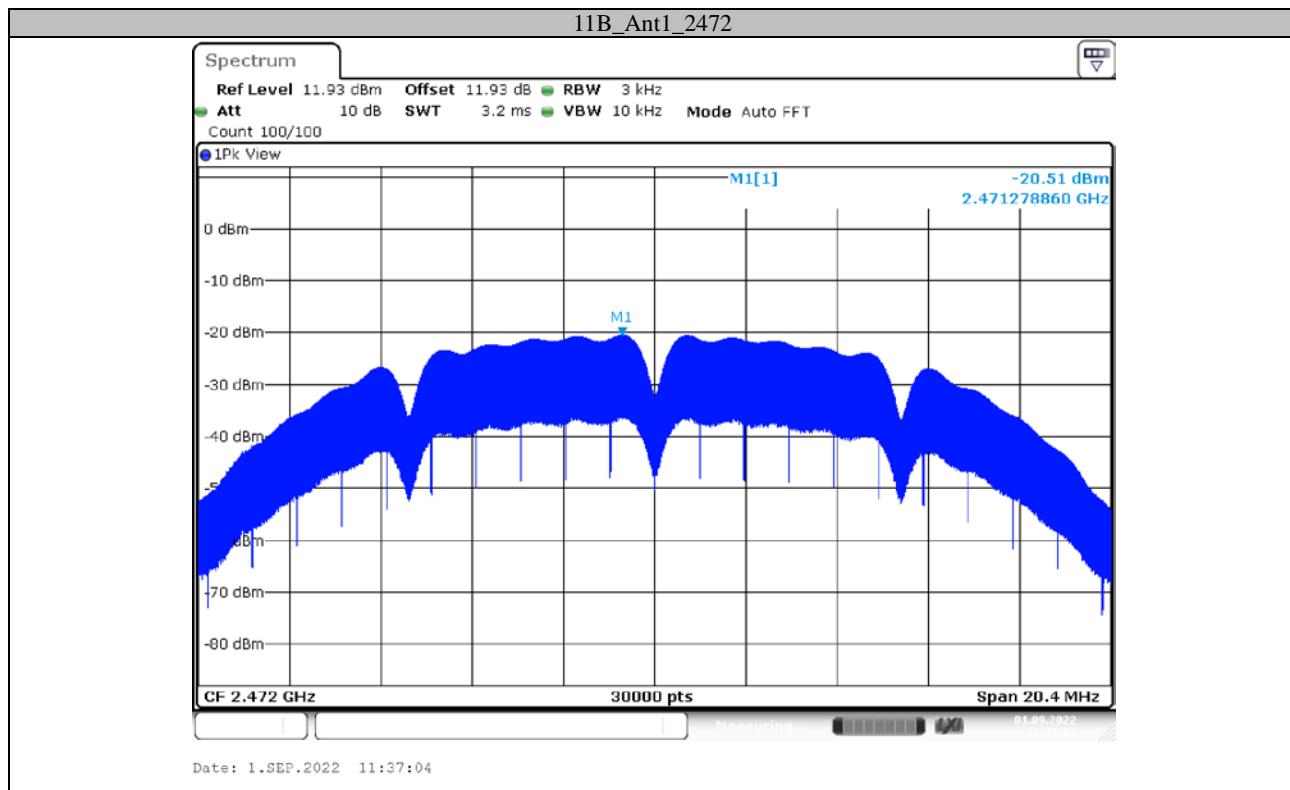
## Appendix D: Power spectral density

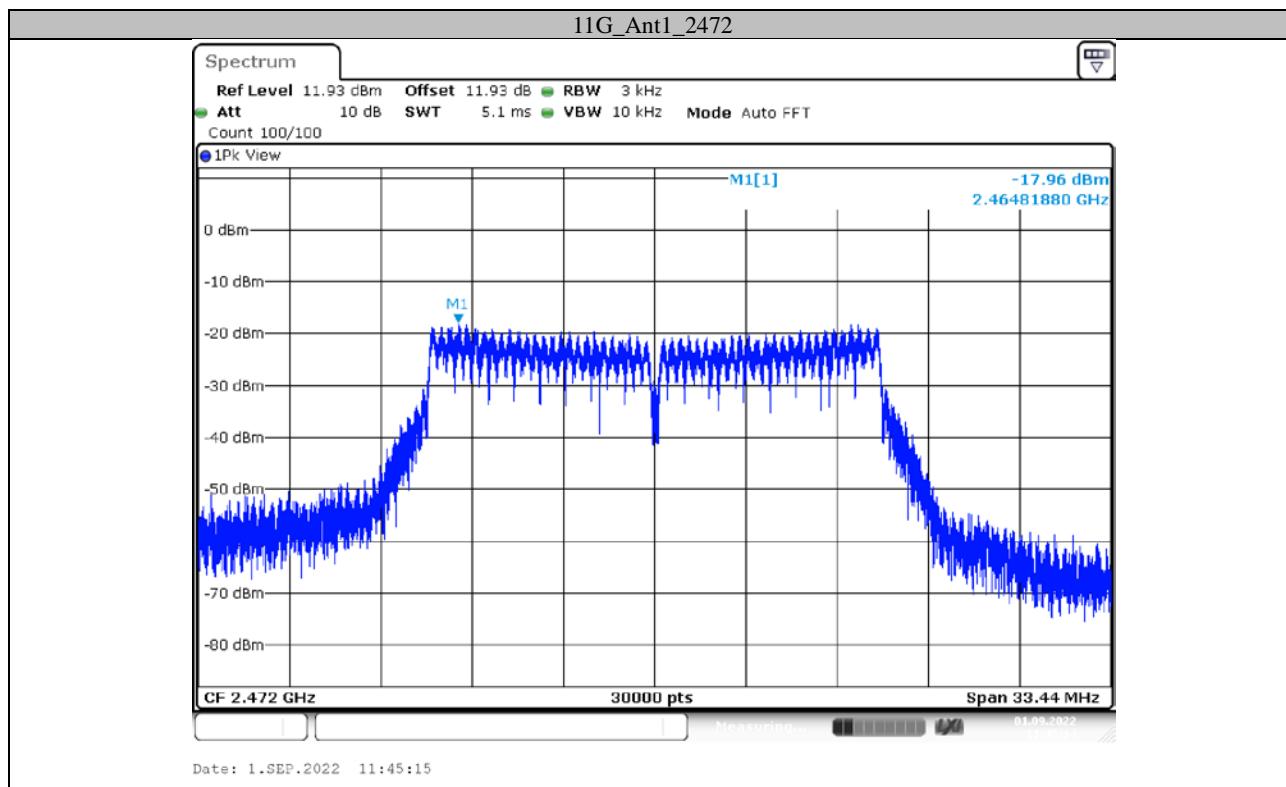
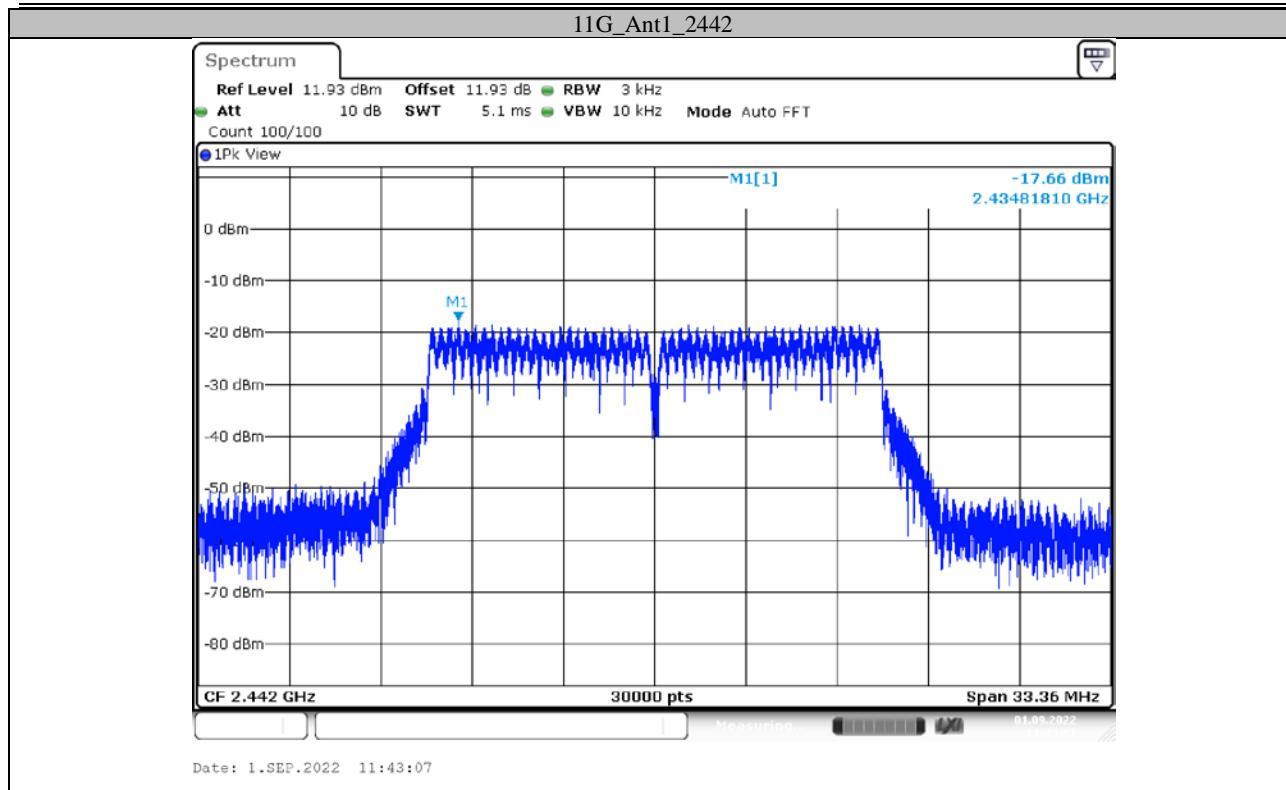
### Test Result

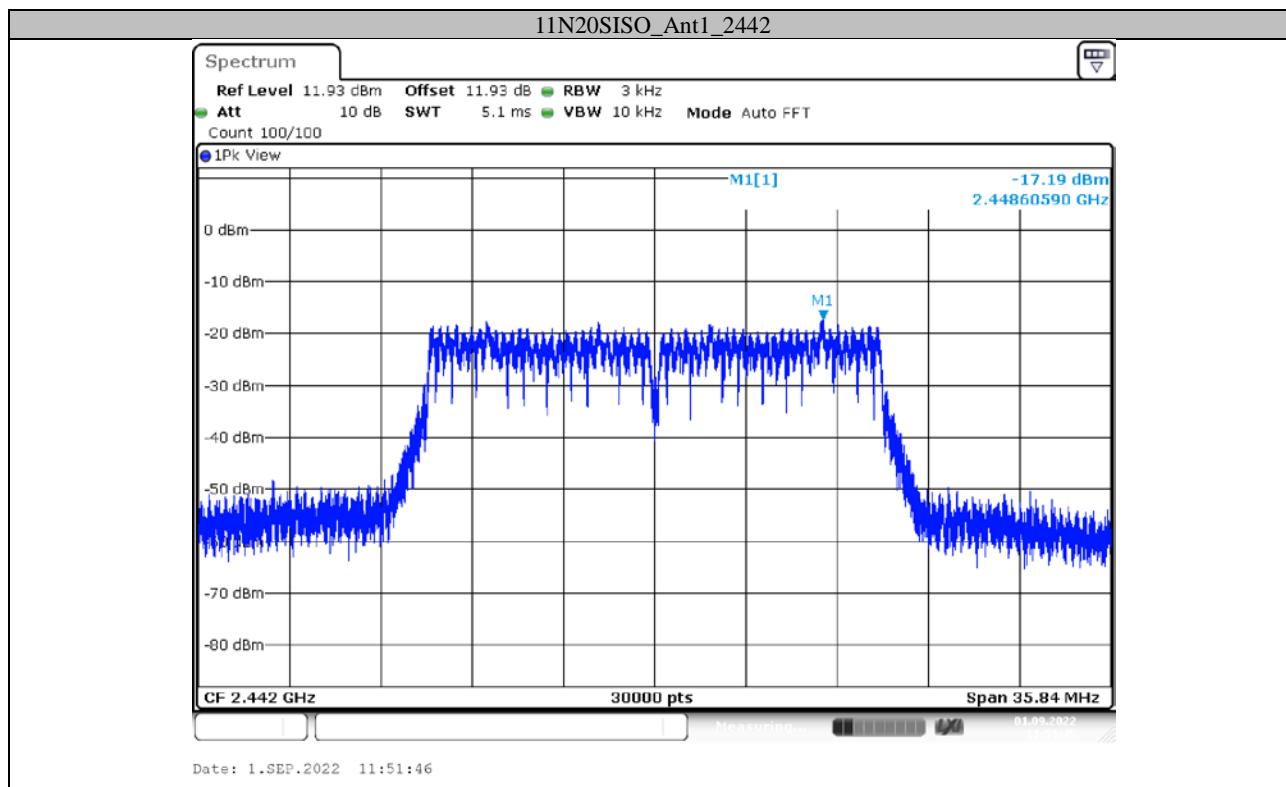
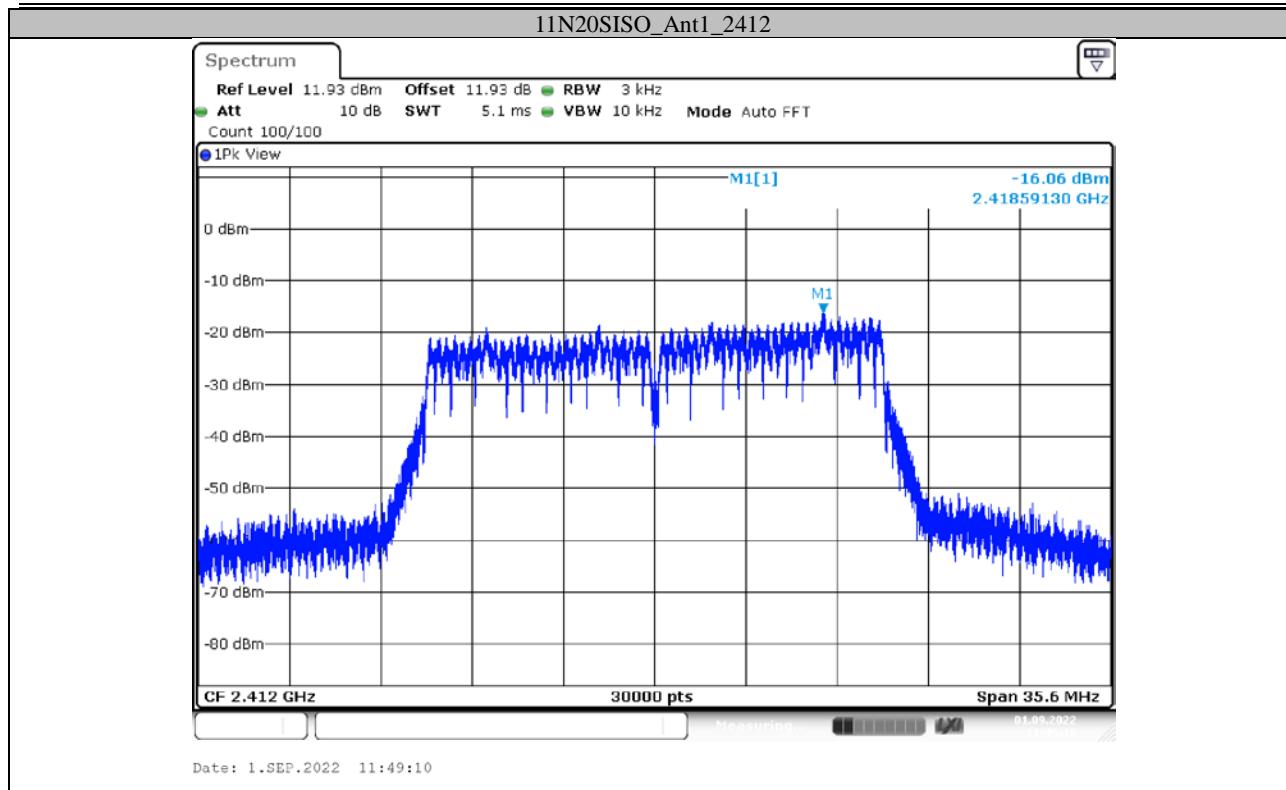
Test Mode	Antenna	Channel[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.32	<=8	PASS
		2442	-15.4	<=8	PASS
		2472	-20.51	<=8	PASS
11G	Ant1	2412	-16.69	<=8	PASS
		2442	-17.66	<=8	PASS
		2472	-17.96	<=8	PASS
11N20SISO	Ant1	2412	-16.06	<=8	PASS
		2442	-17.19	<=8	PASS
		2472	-17.02	<=8	PASS
11N40SISO	Ant1	2422	-17.51	<=8	PASS
		2442	-17.57	<=8	PASS
		2462	-17.6	<=8	PASS

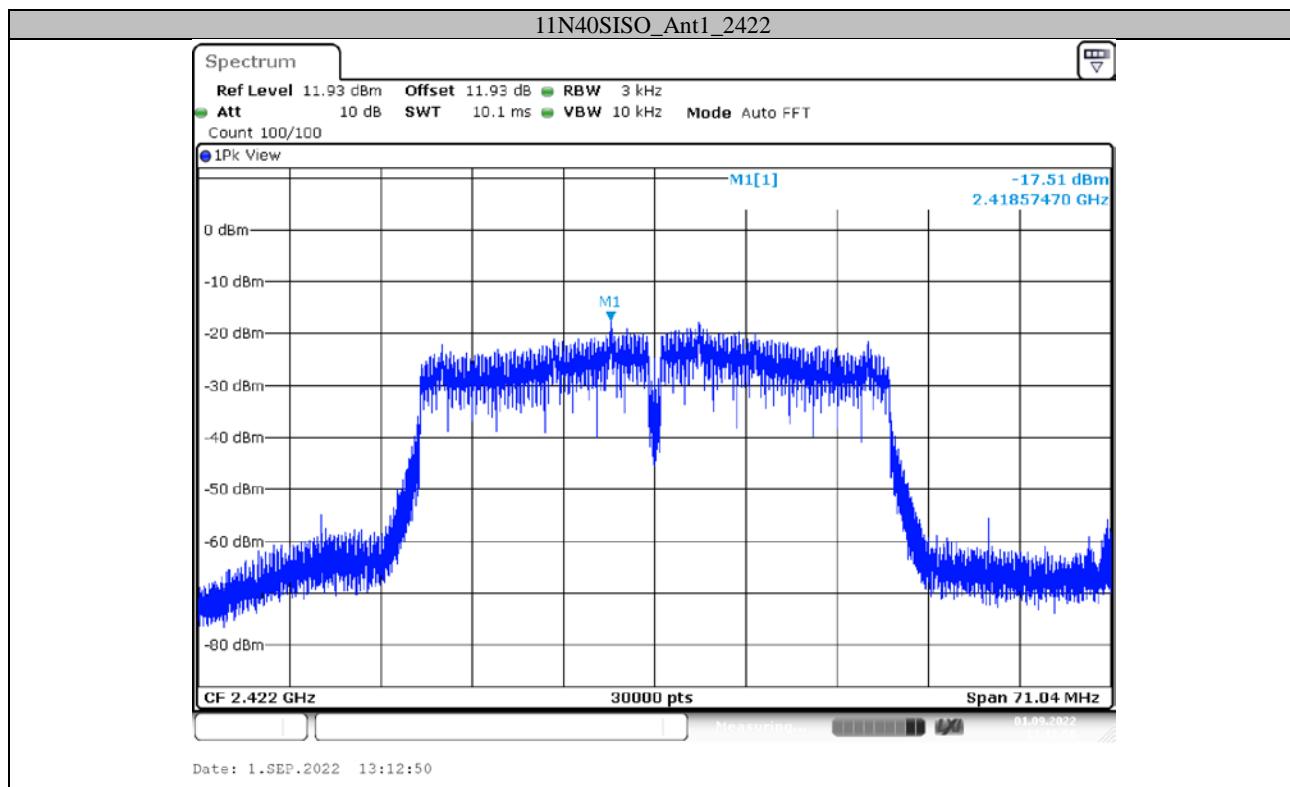
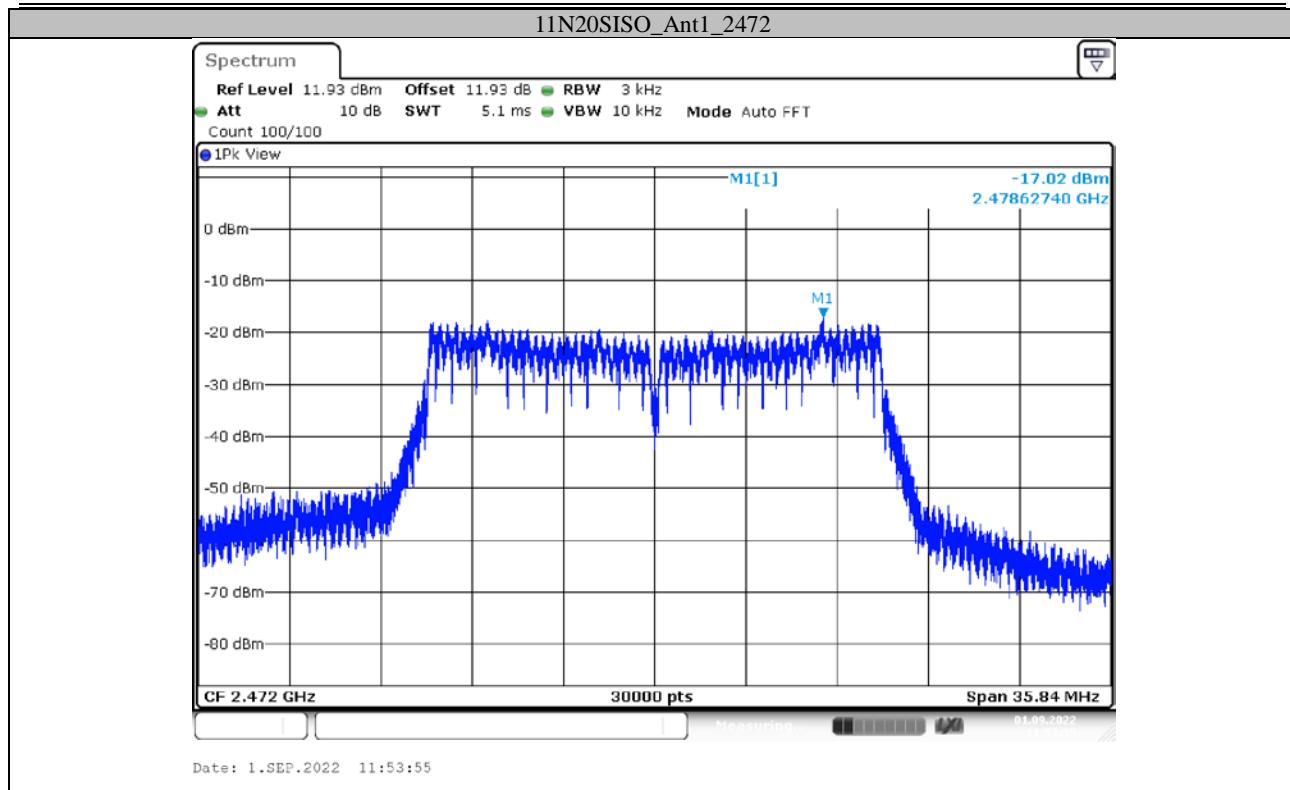
### Test Graphs

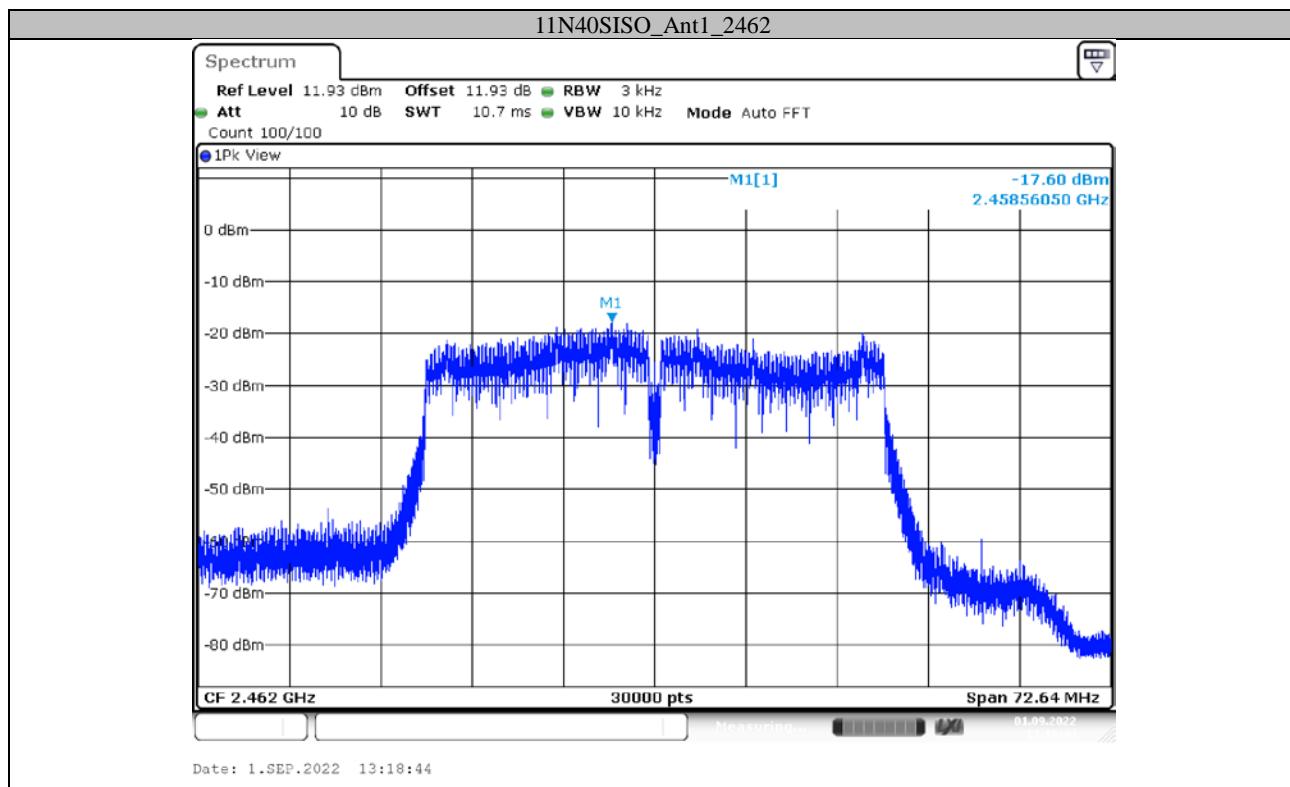
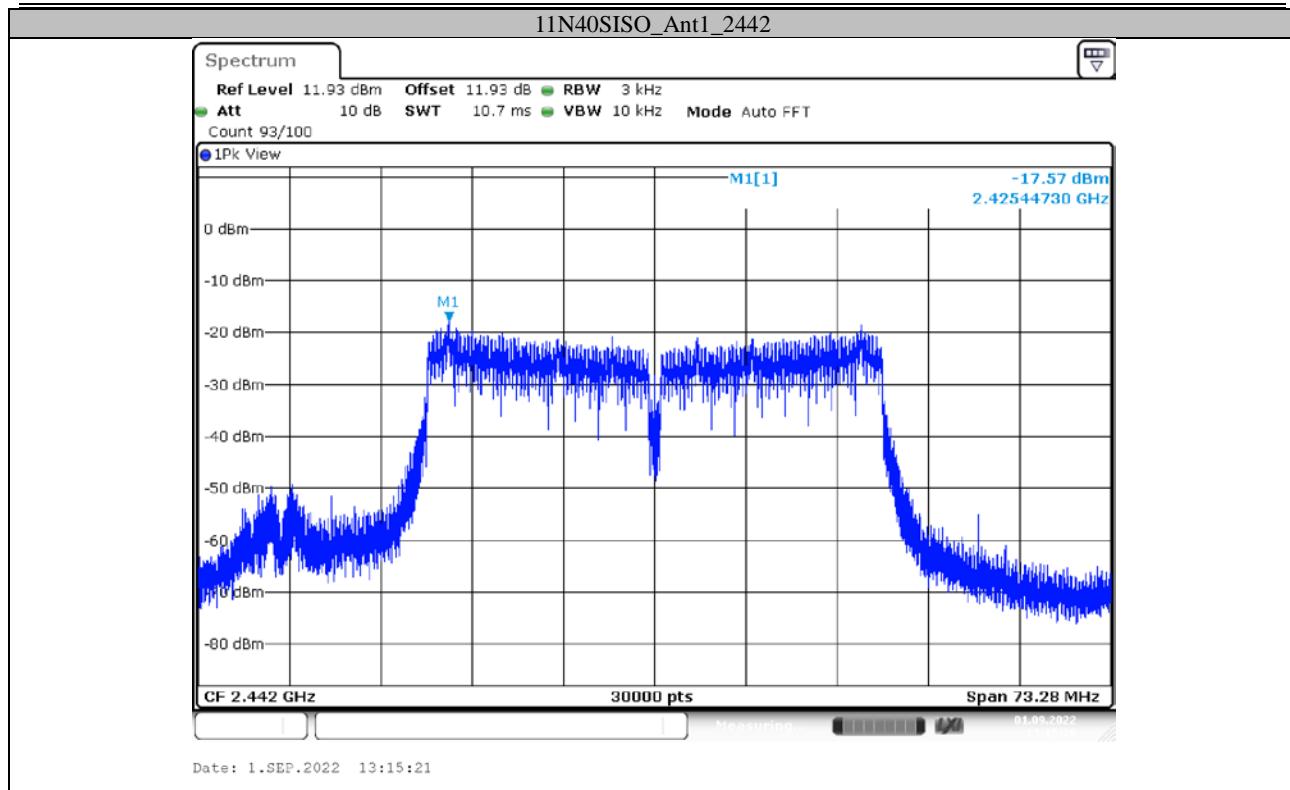






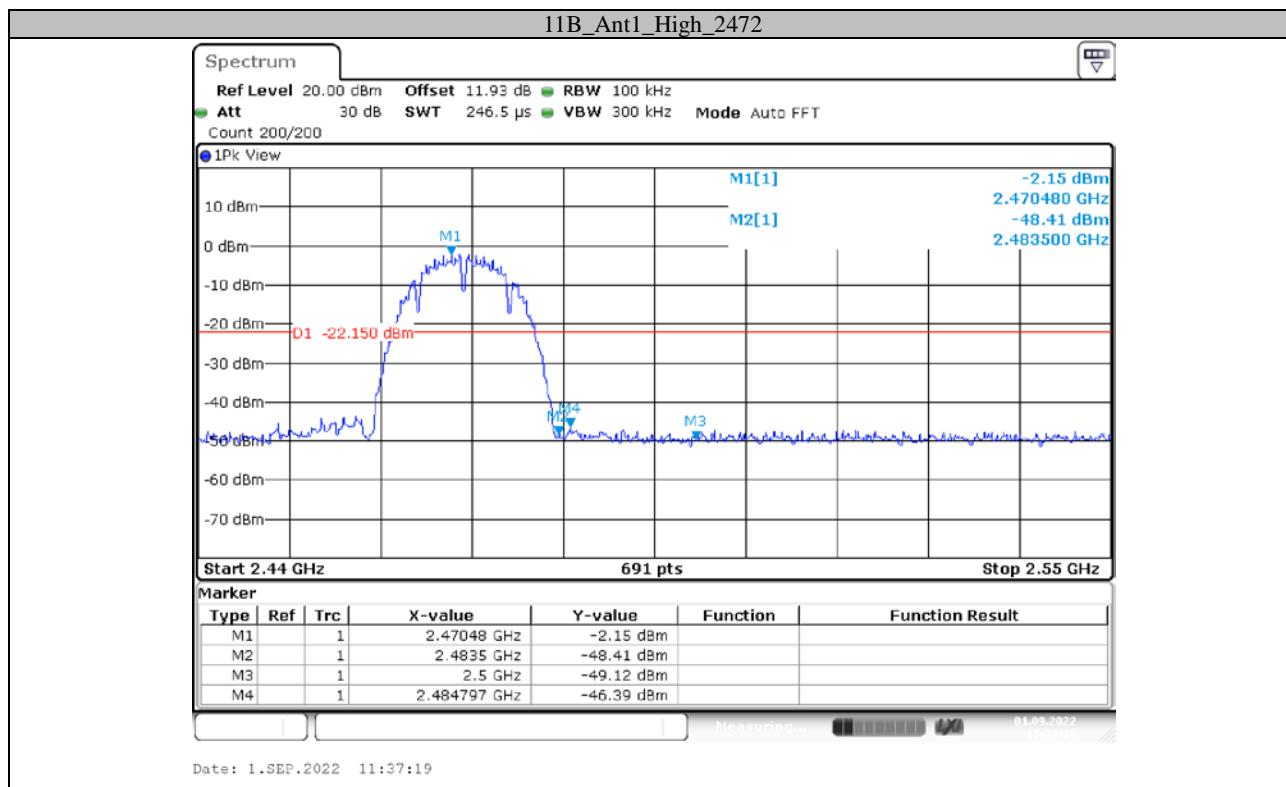
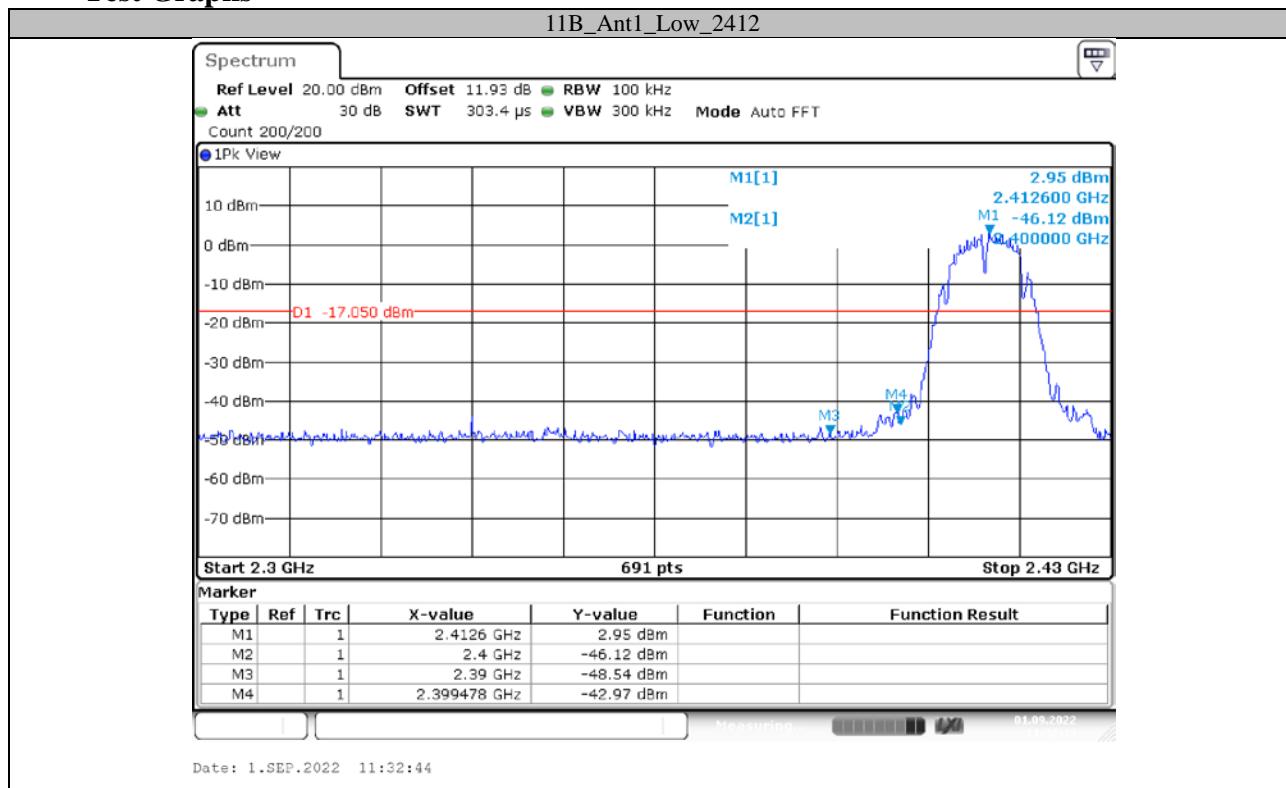


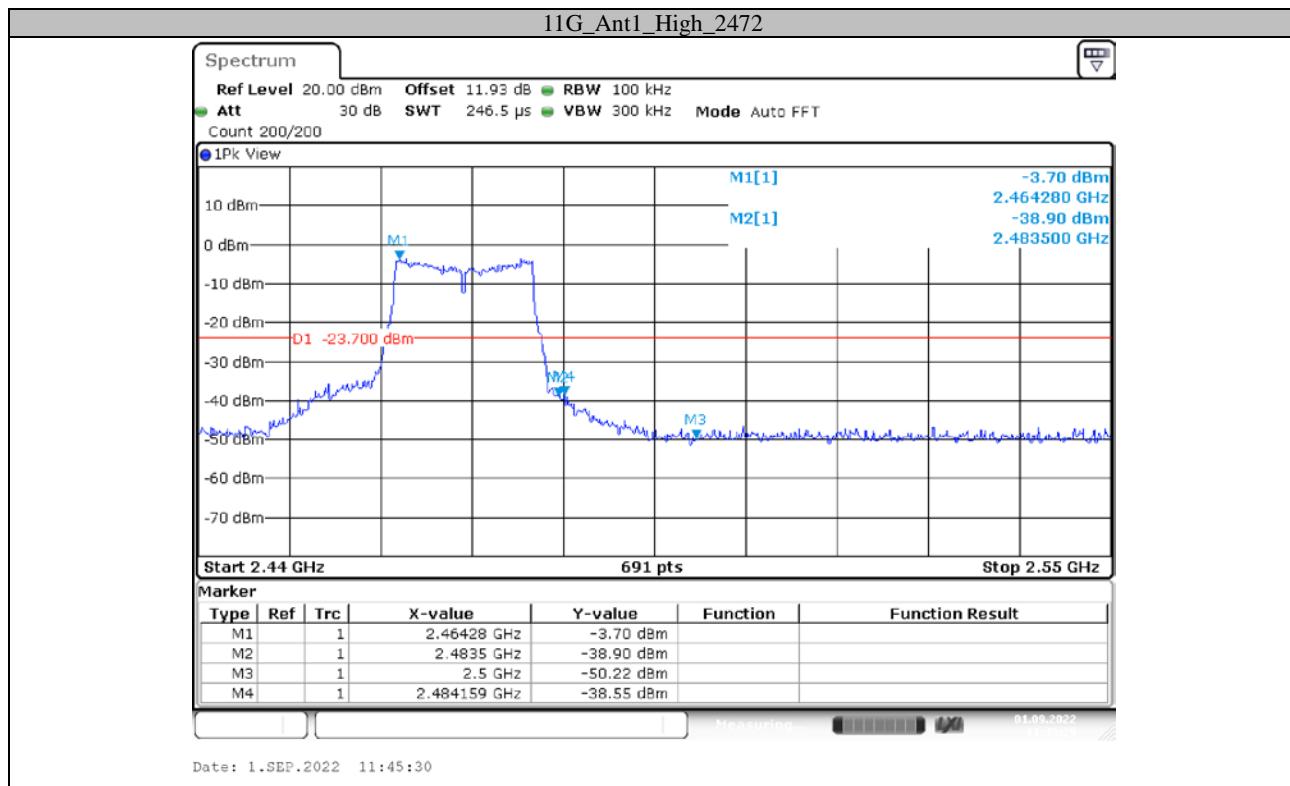
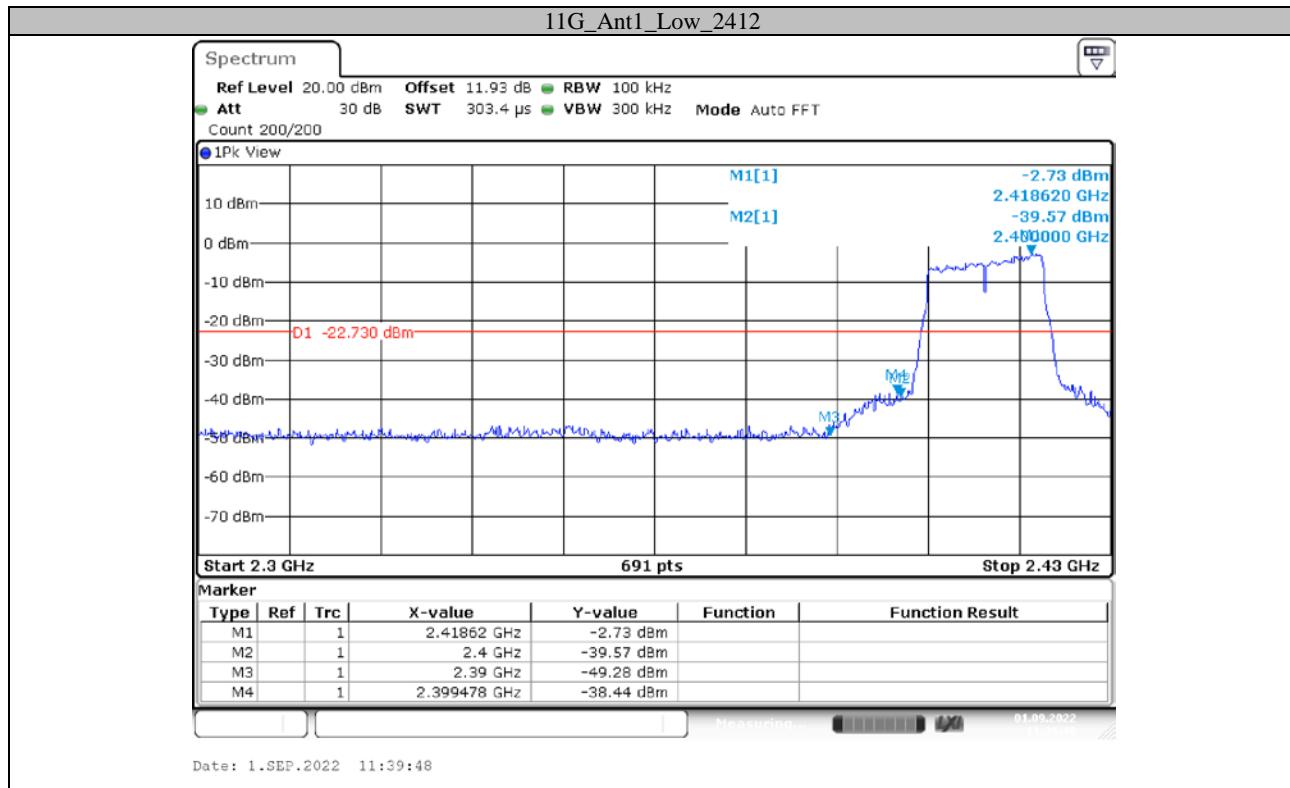


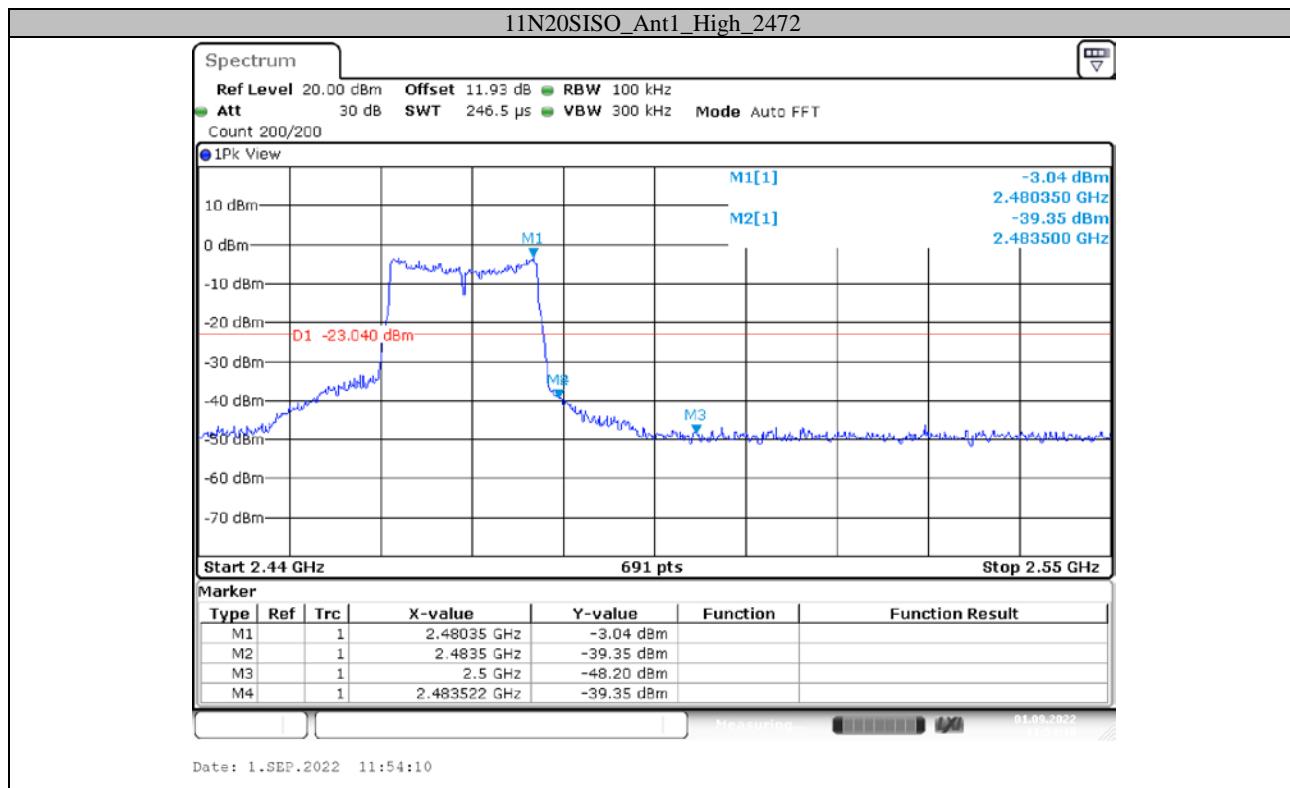
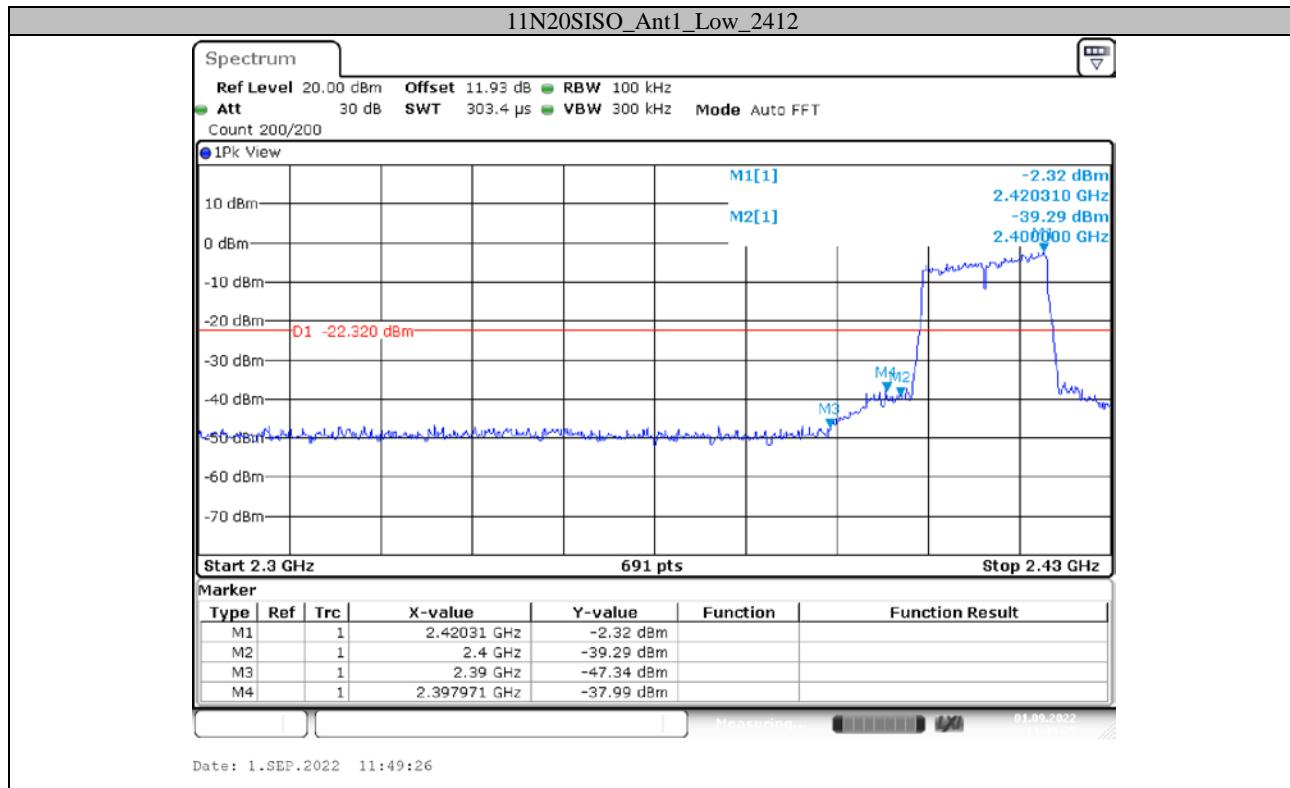


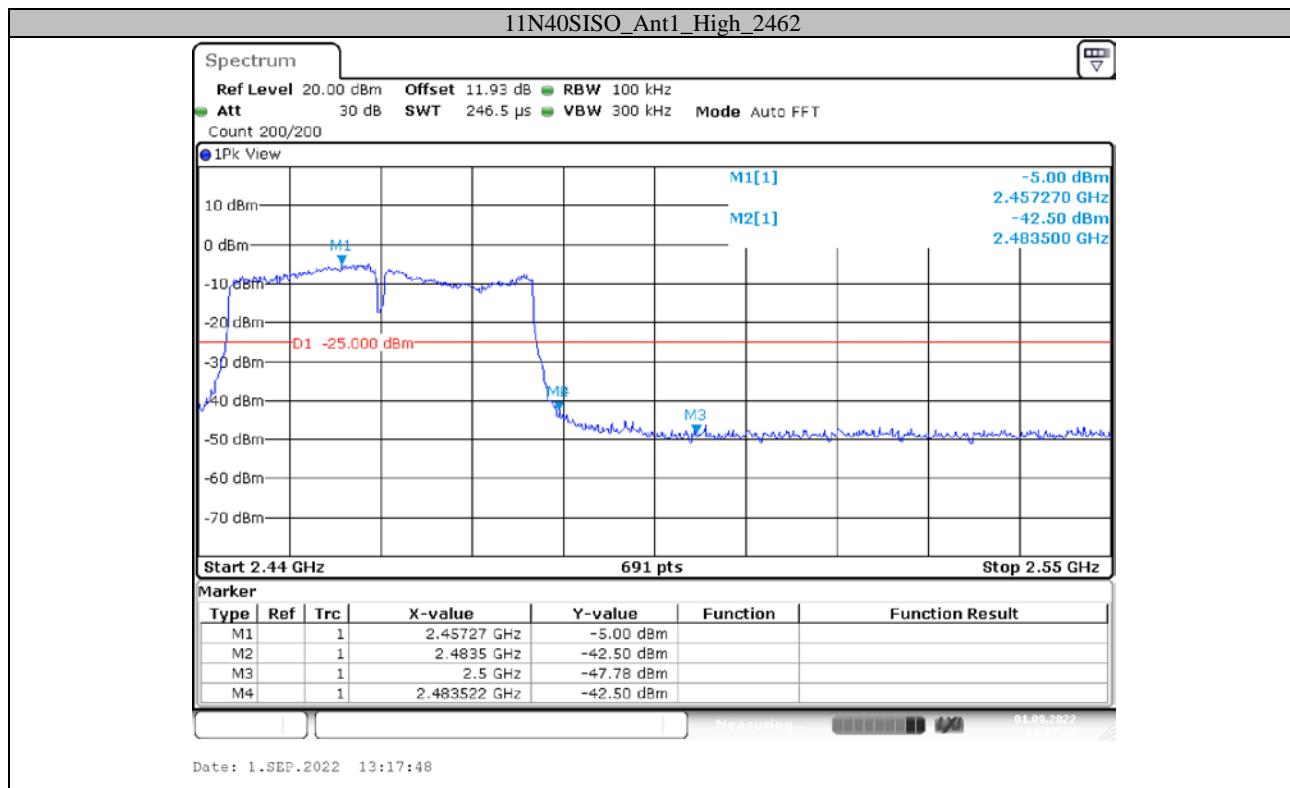
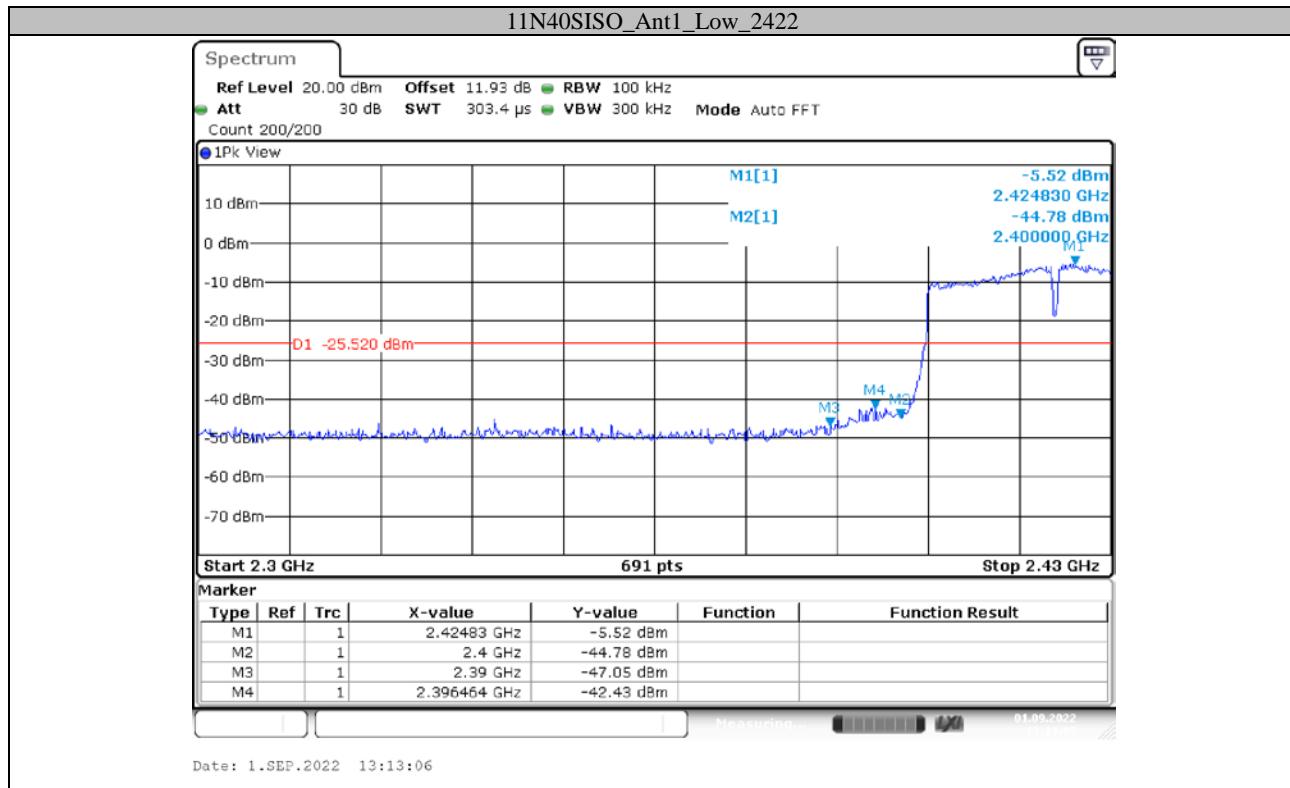
## Appendix E: Band edge measurements

### Test Graphs







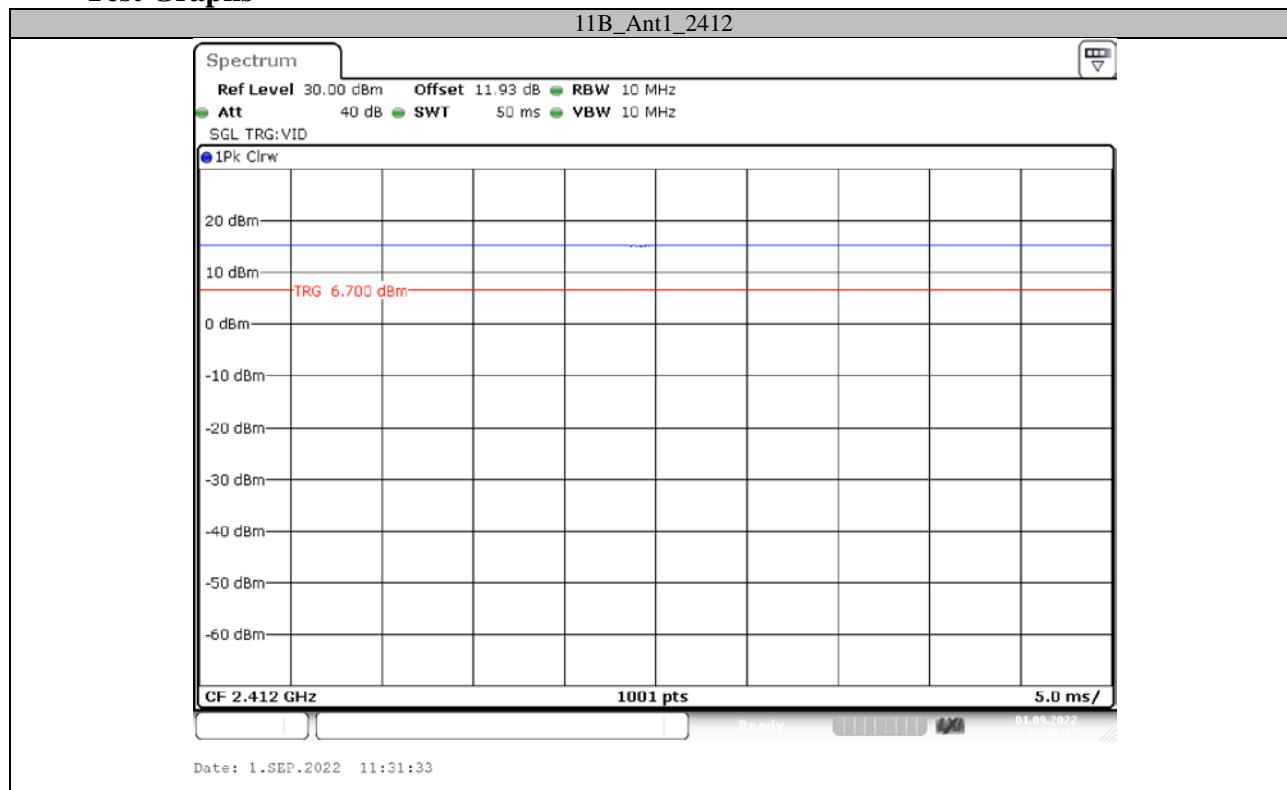


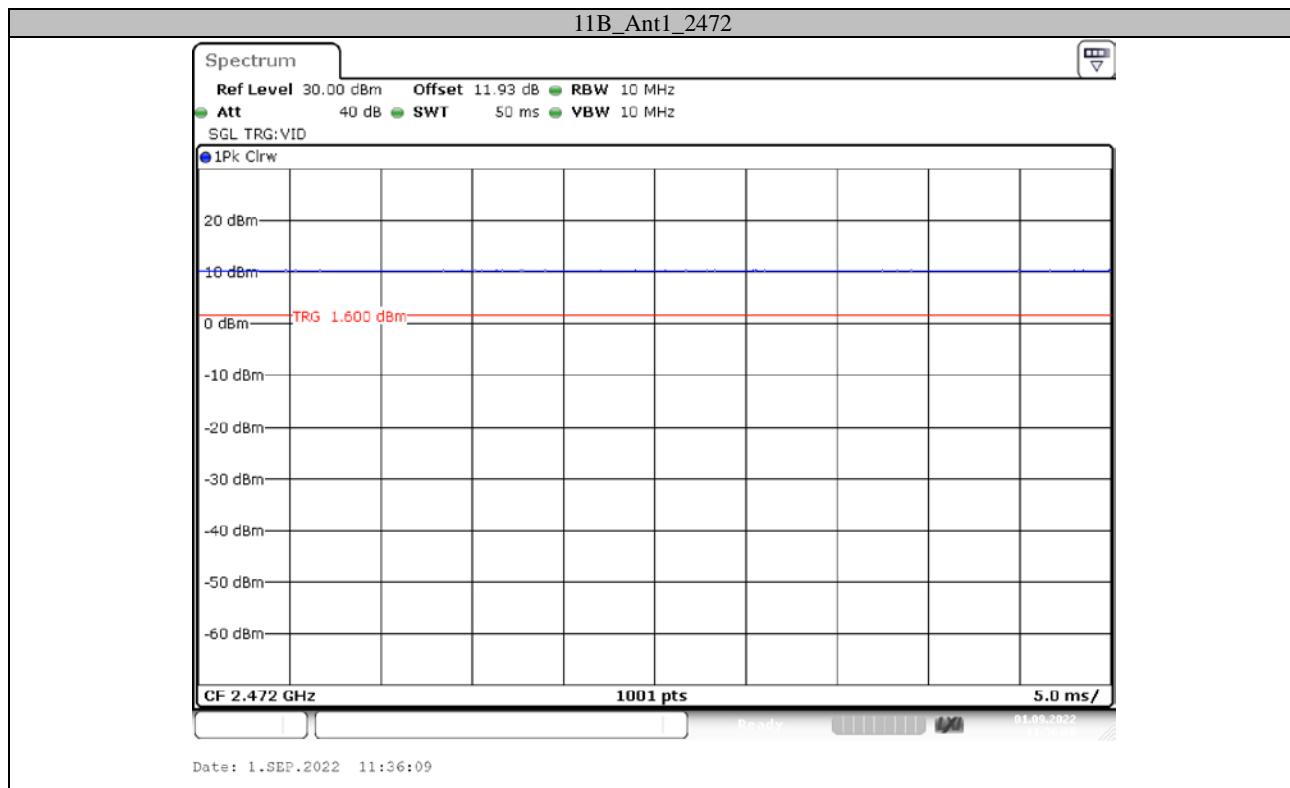
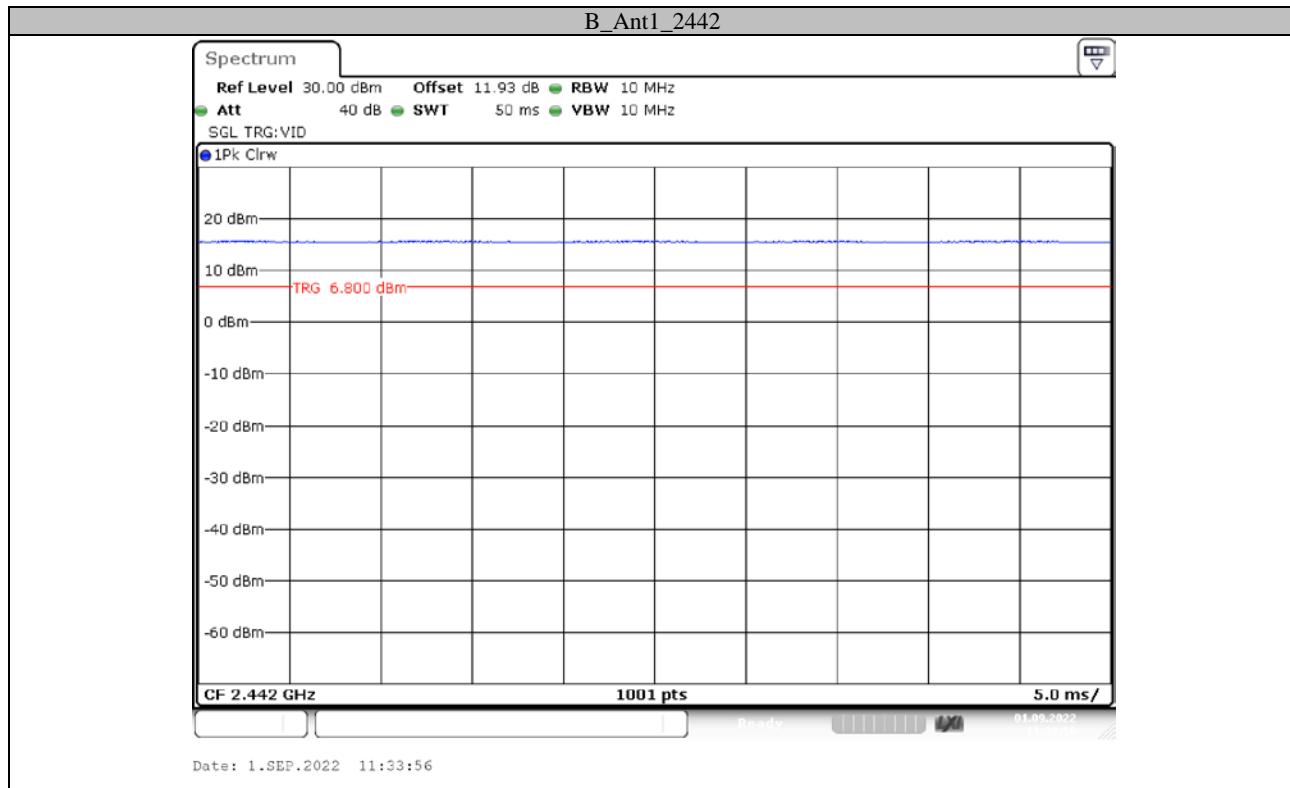
## Appendix F: Duty Cycle

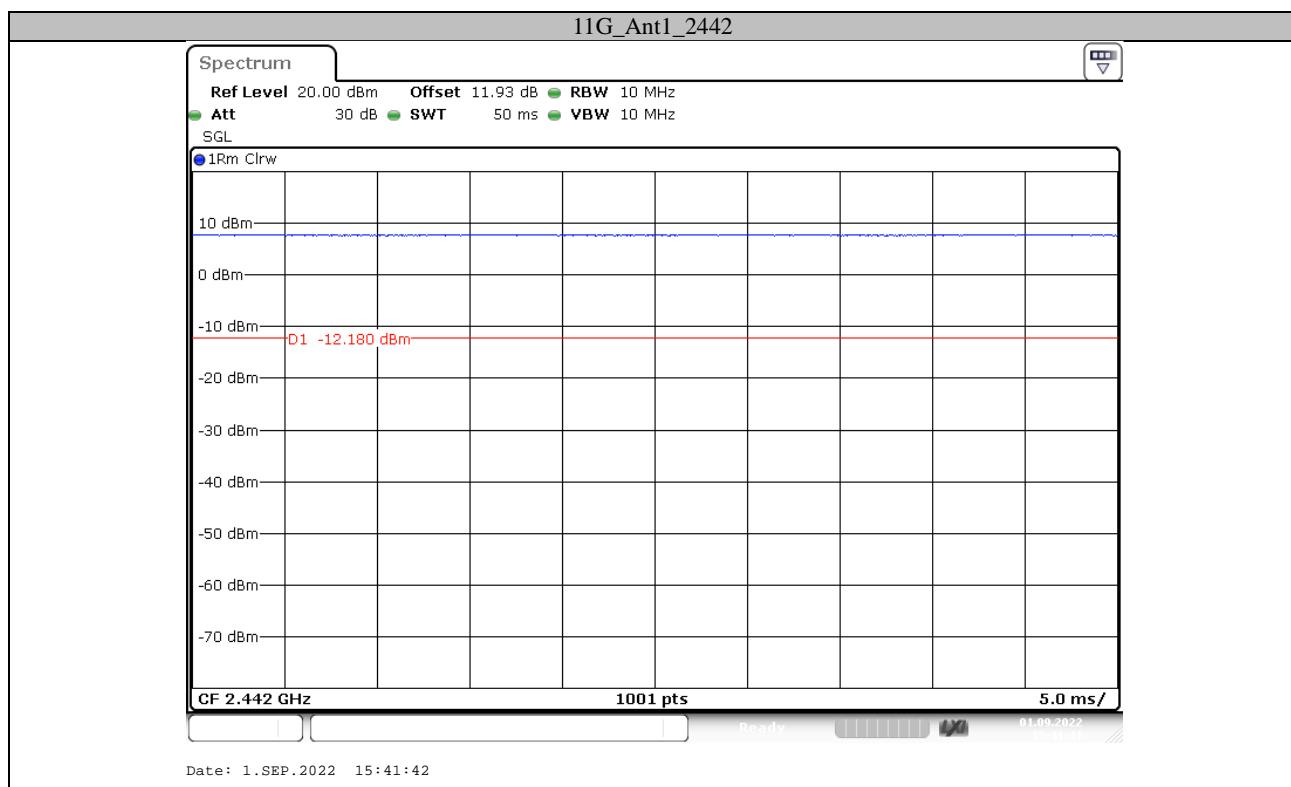
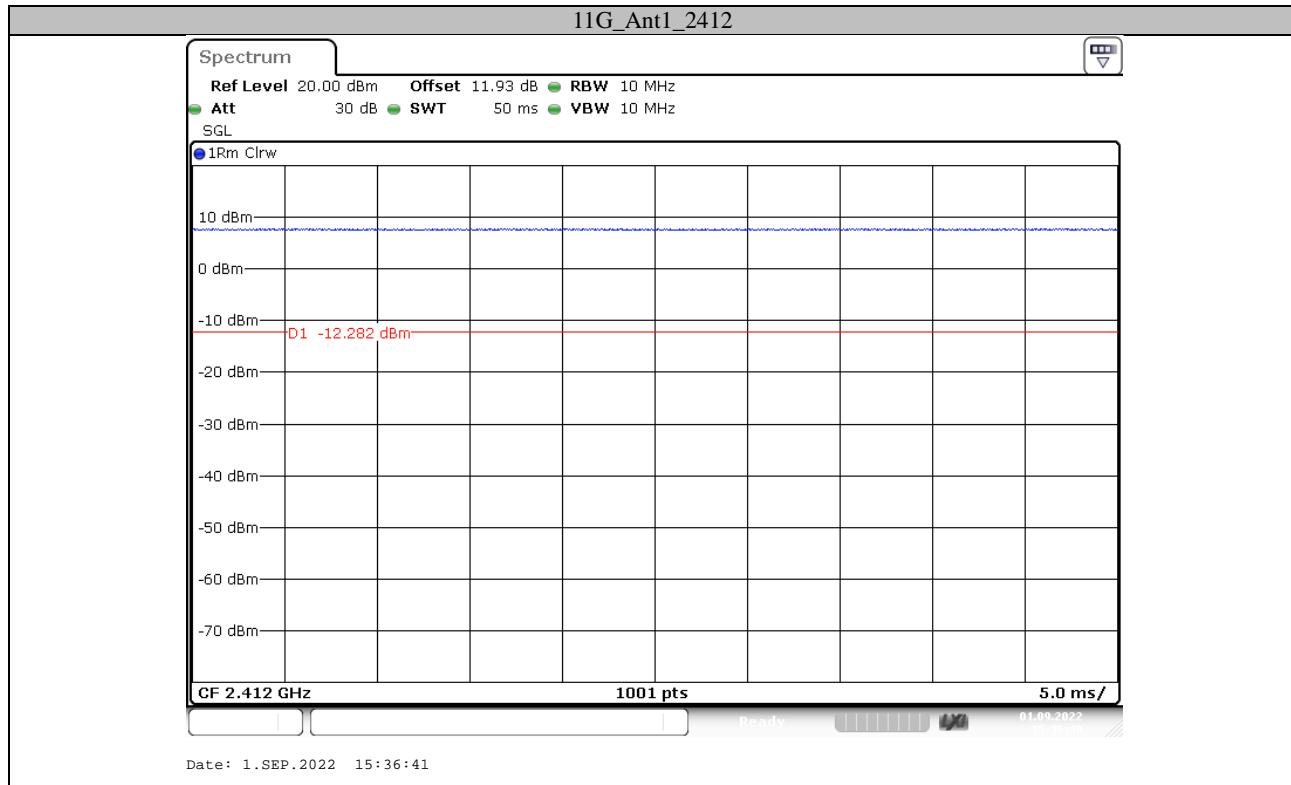
### Test Result

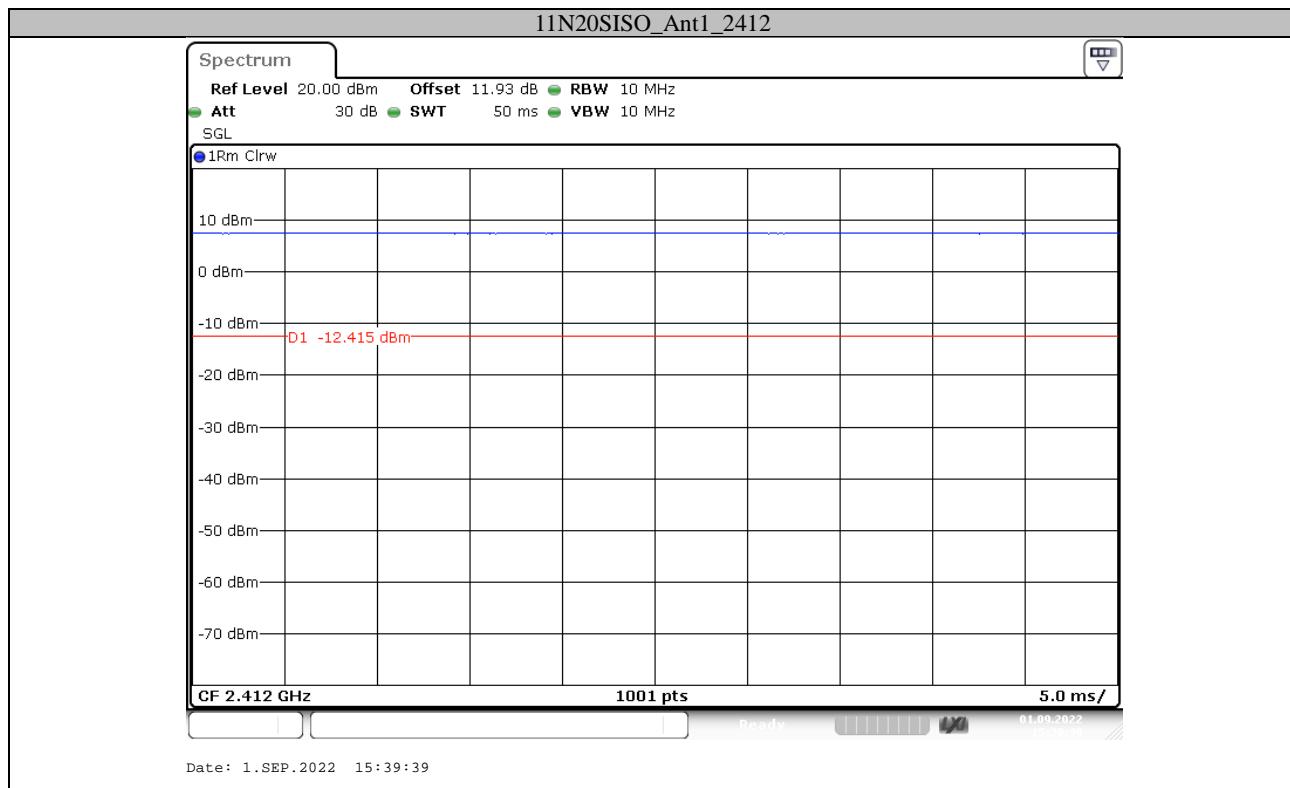
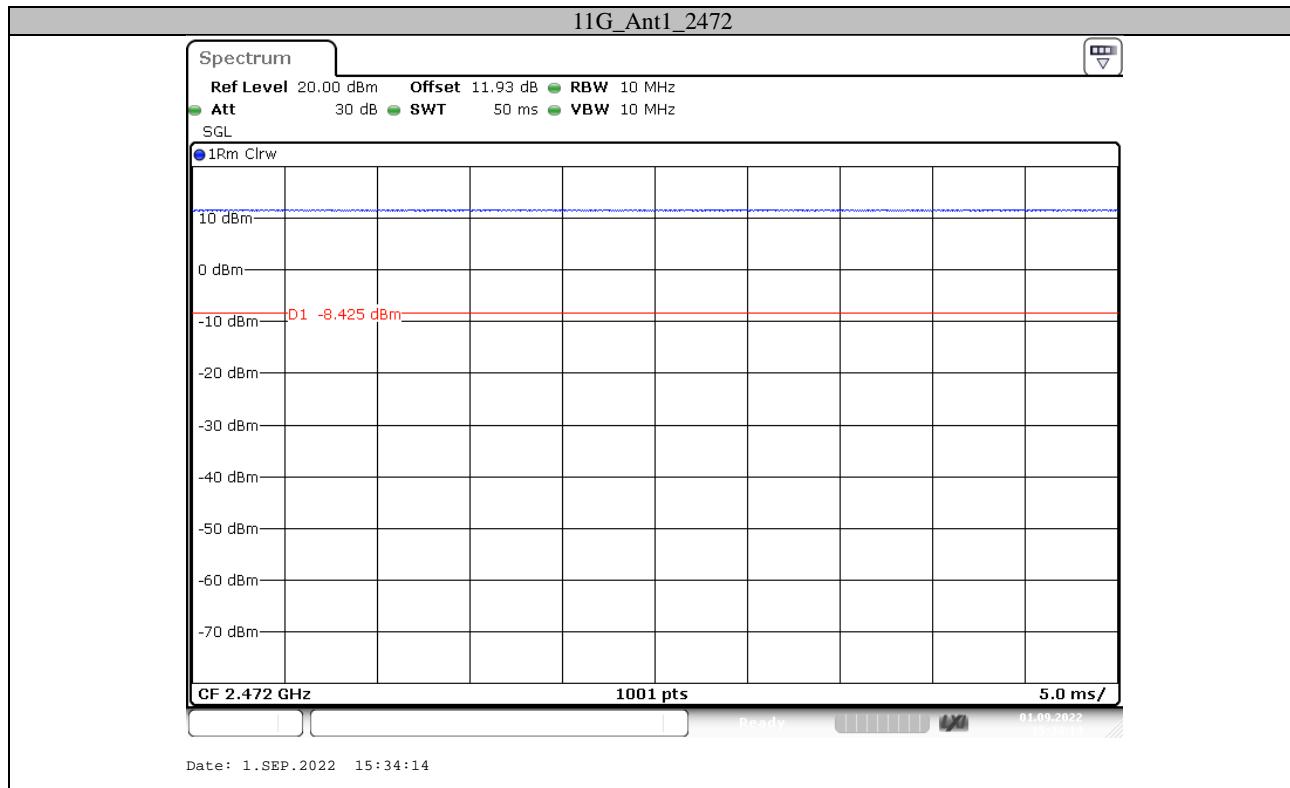
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	50.00	50.00	100.00
		2442	50.00	50.00	100.00
		2472	50.00	50.00	100.00
11G	Ant1	2412	50.00	50.00	100.00
		2442	50.00	50.00	100.00
		2472	50.00	50.00	100.00
11N20SISO	Ant1	2412	50.00	50.00	100.00
		2442	50.00	50.00	100.00
		2472	50.00	50.00	100.00
11N40SISO	Ant1	2422	50.00	50.00	100.00
		2442	50.00	50.00	100.00
		2462	50.00	50.00	100.00

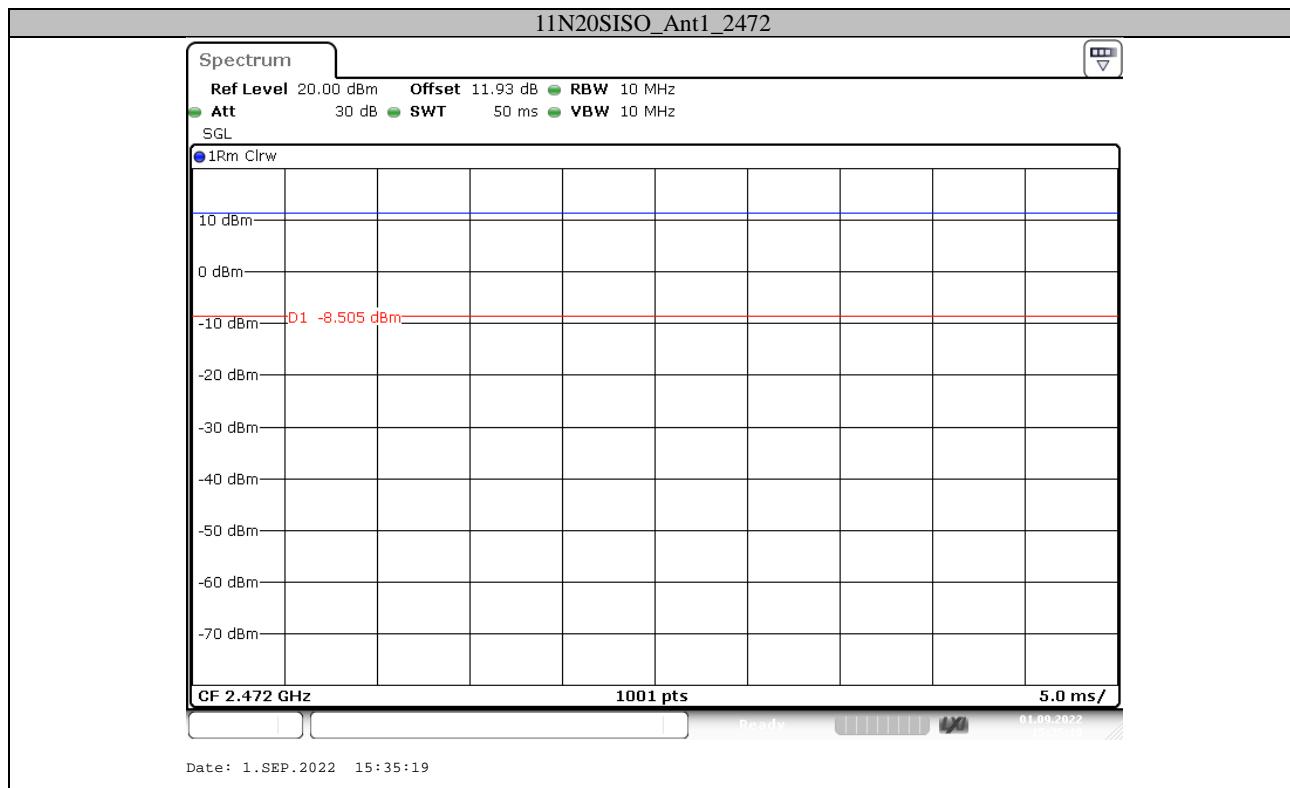
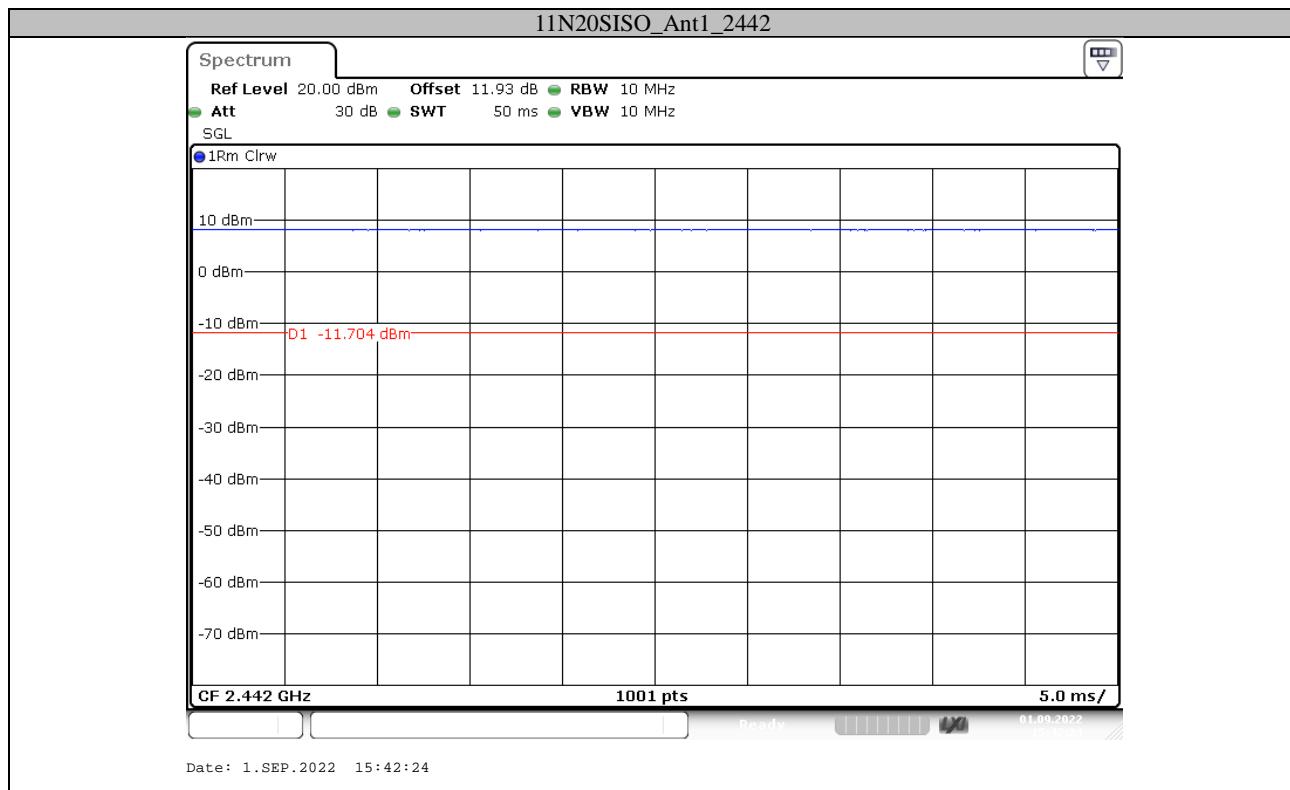
### Test Graphs

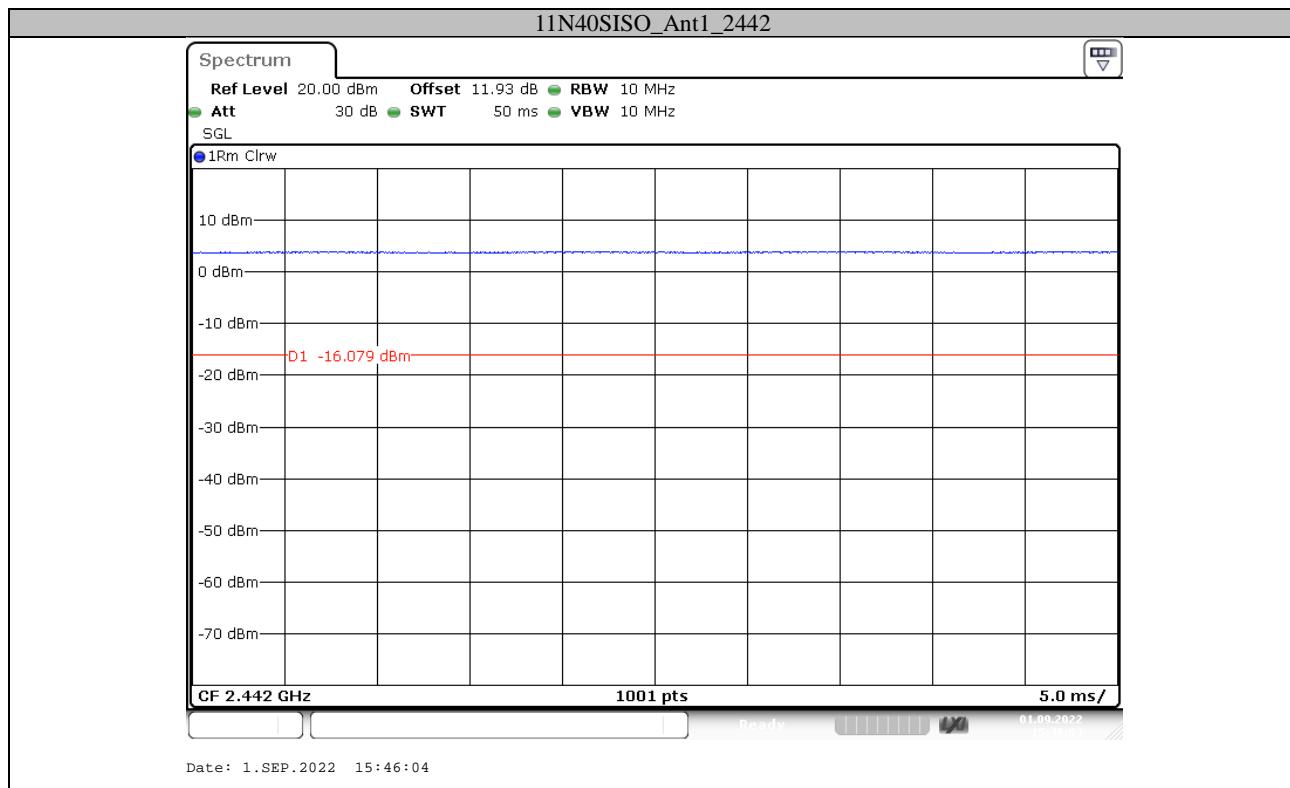
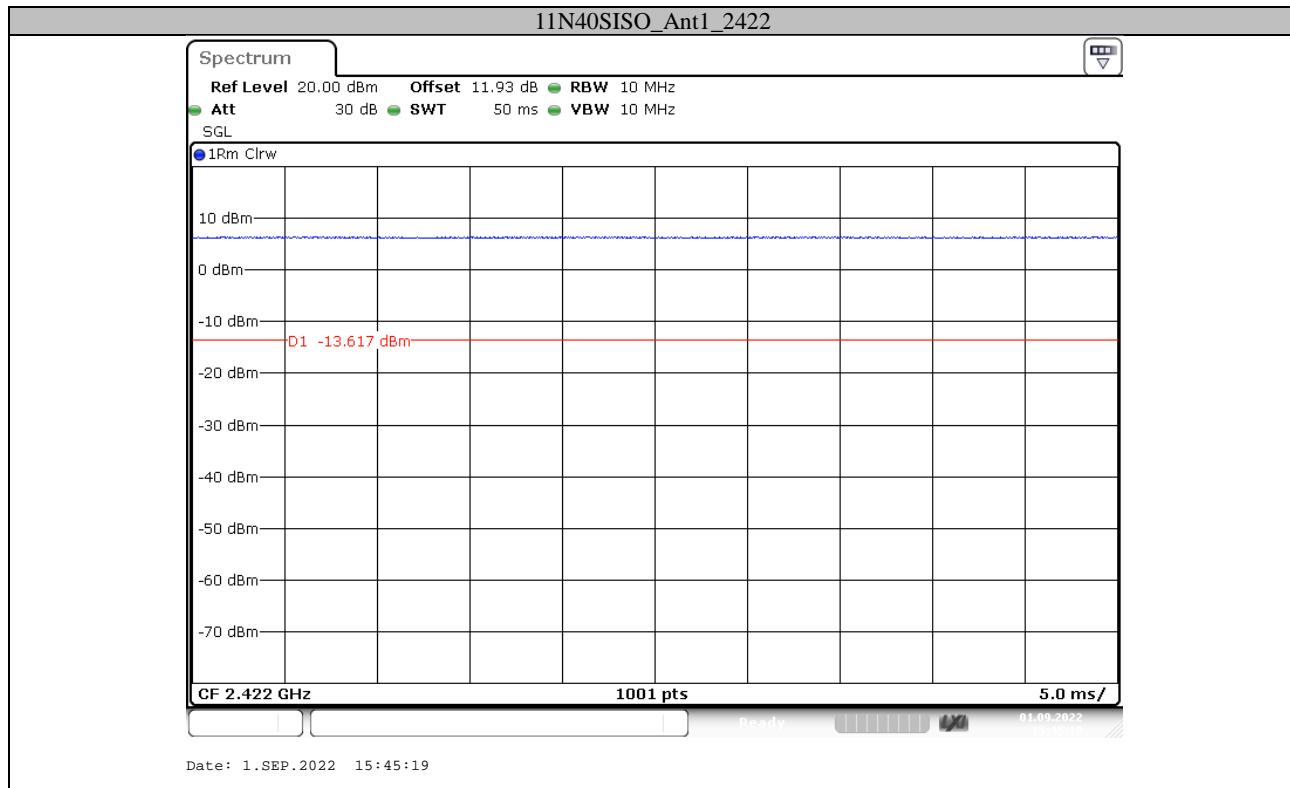


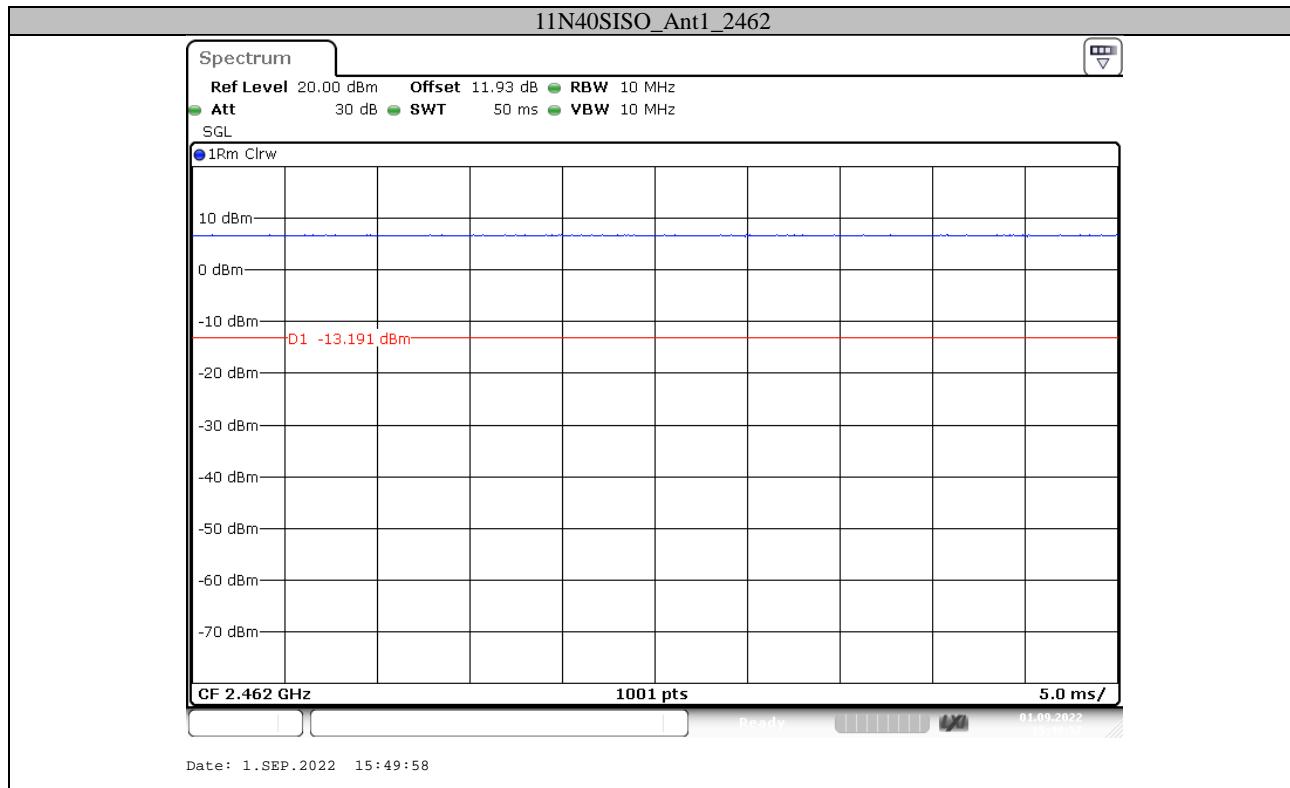












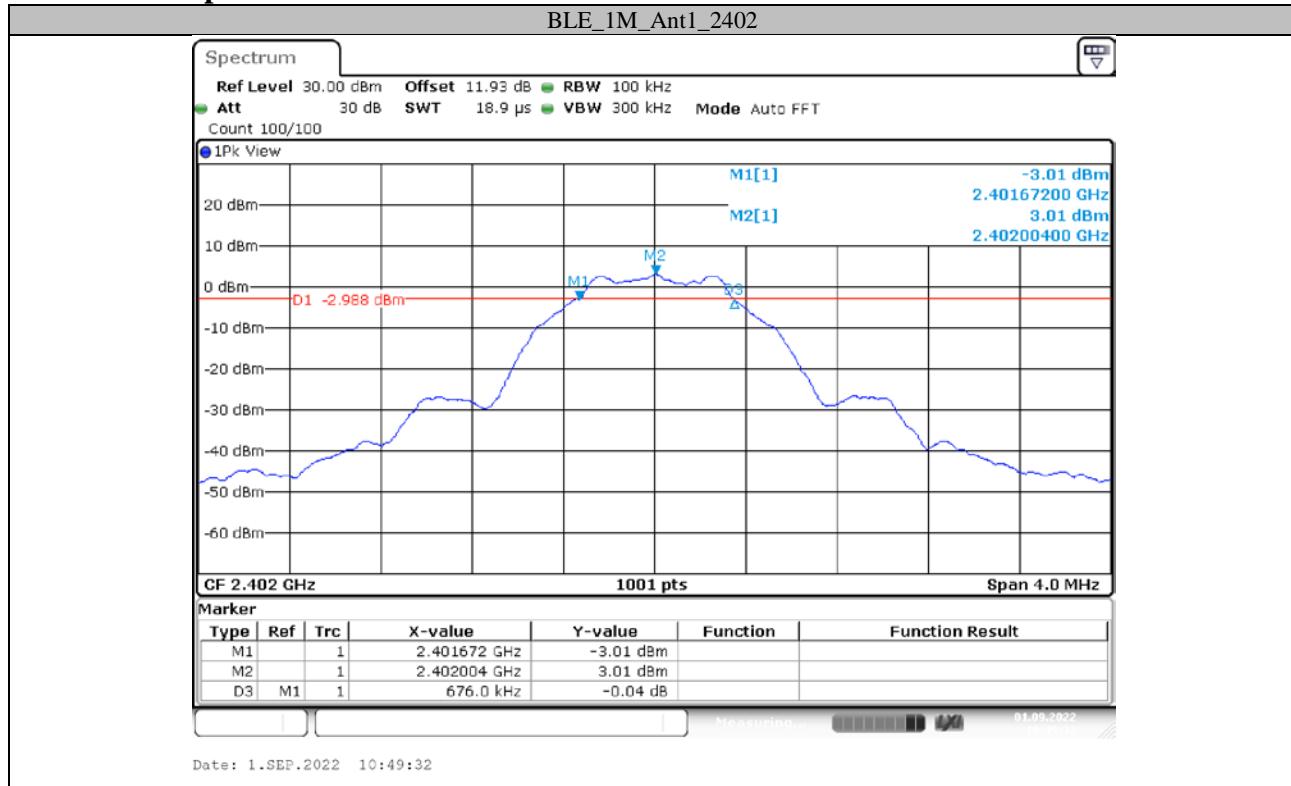
## APPENDIX BLE

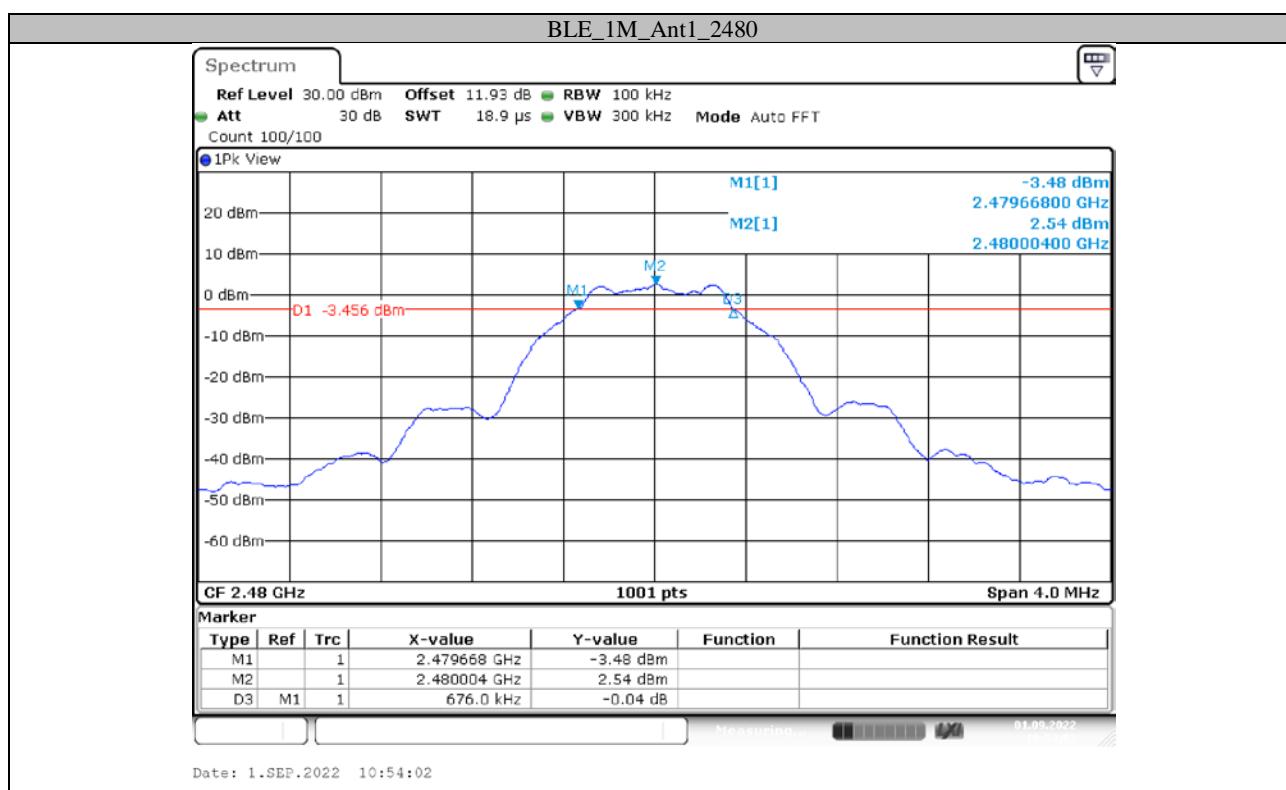
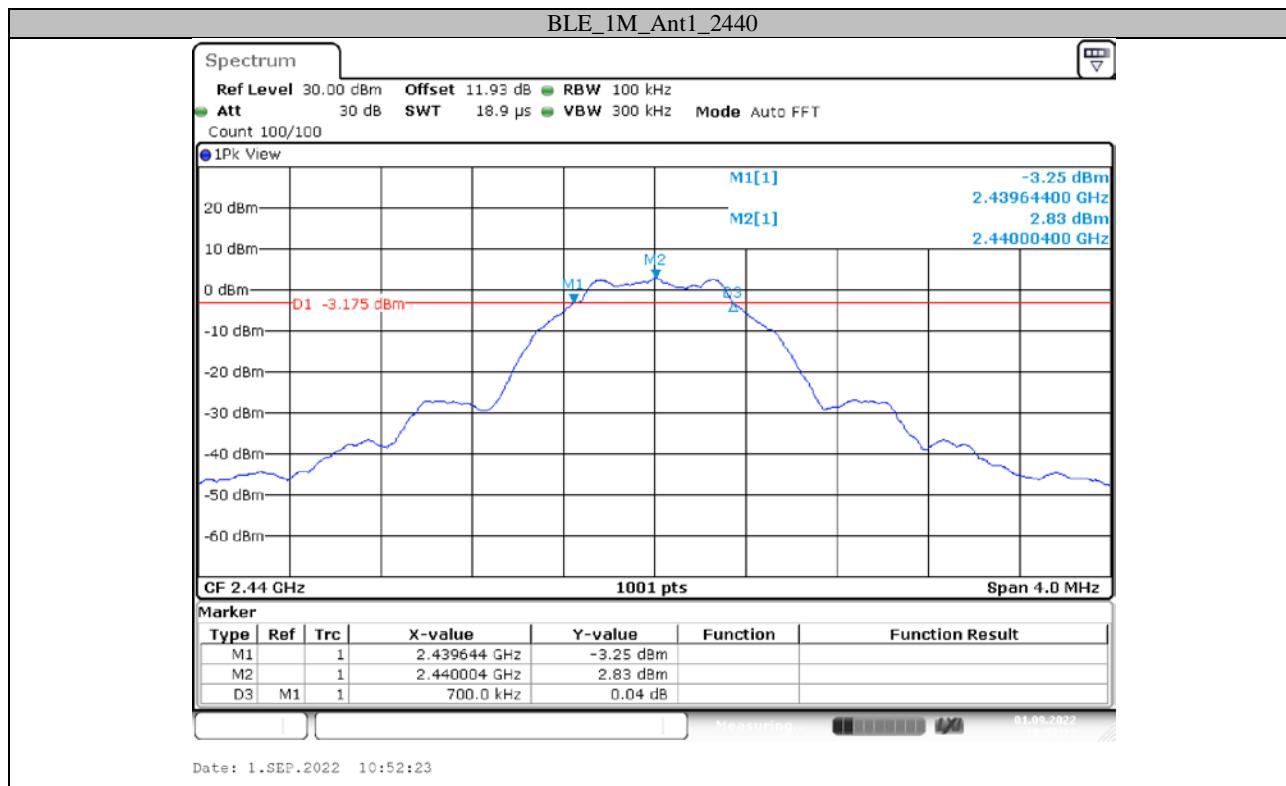
### Appendix A: 6dB Emission Bandwidth

#### Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	0.5	PASS
		2440	0.700	0.5	PASS
		2480	0.676	0.5	PASS

#### Test Graphs



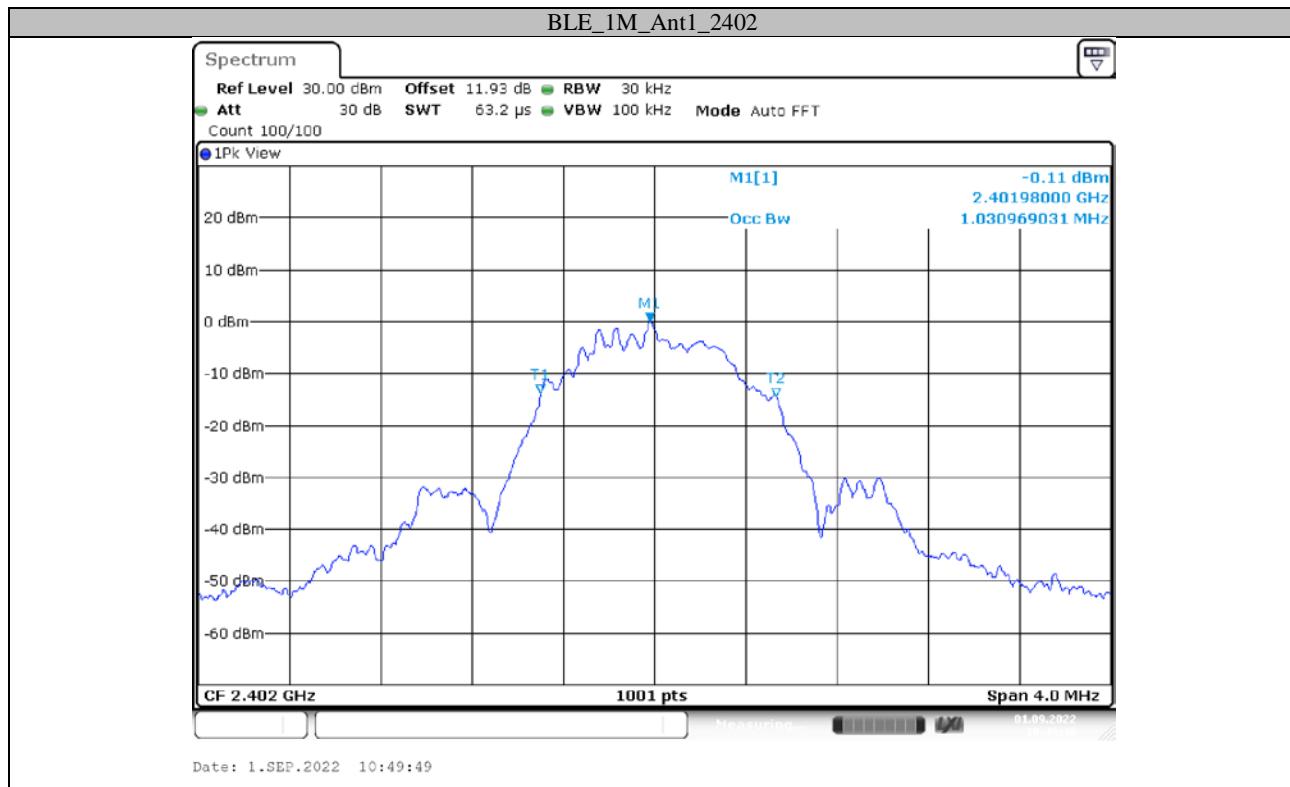


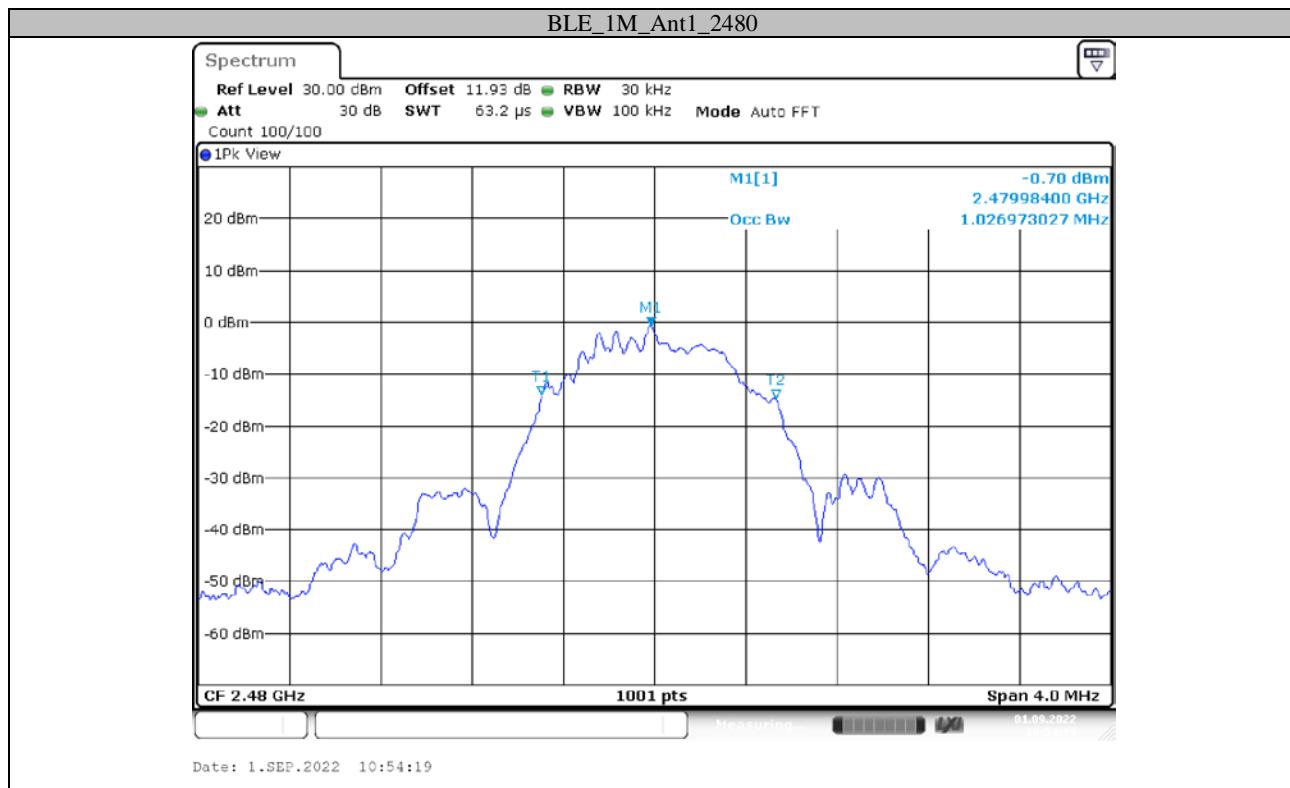
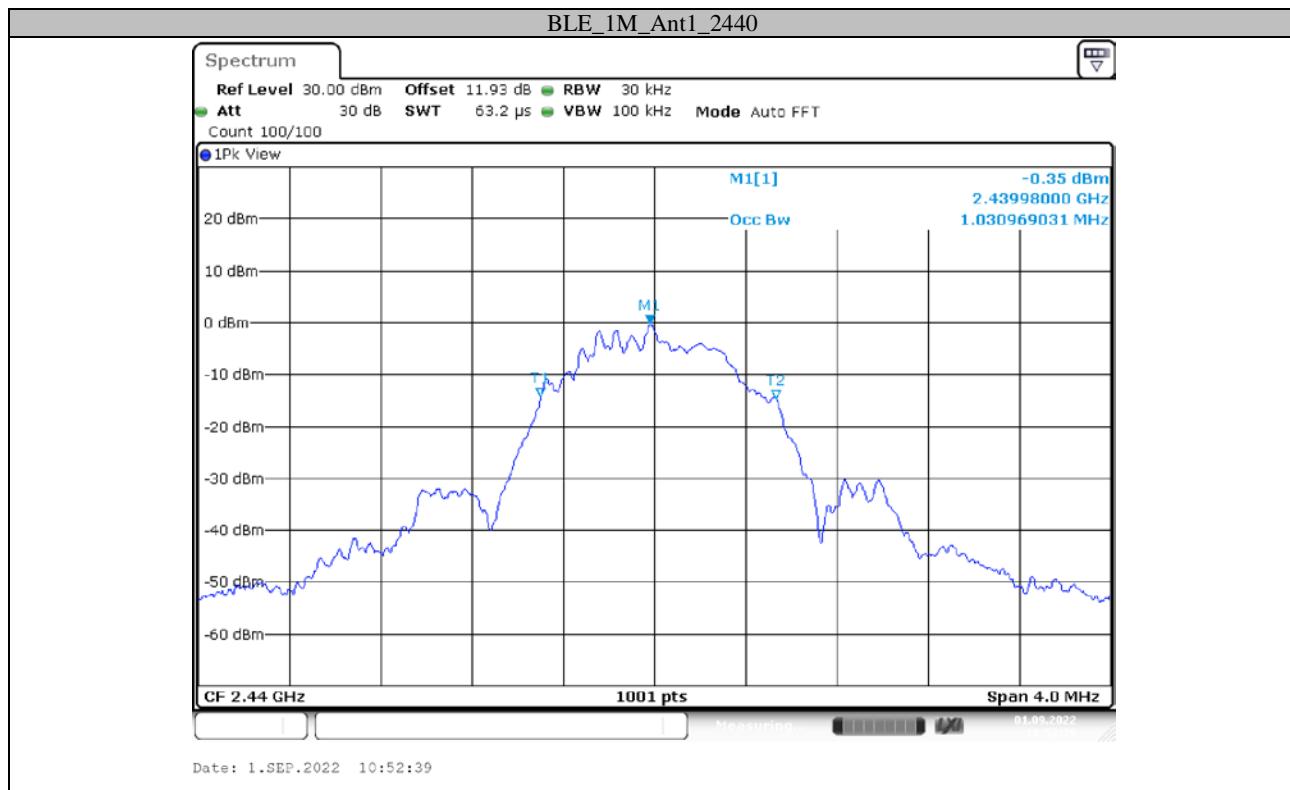
## Appendix B: Occupied Channel Bandwidth

### Test Result

Test Mode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.031	---	PASS
		2440	1.031	---	PASS
		2480	1.027	---	PASS

### Test Graphs





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

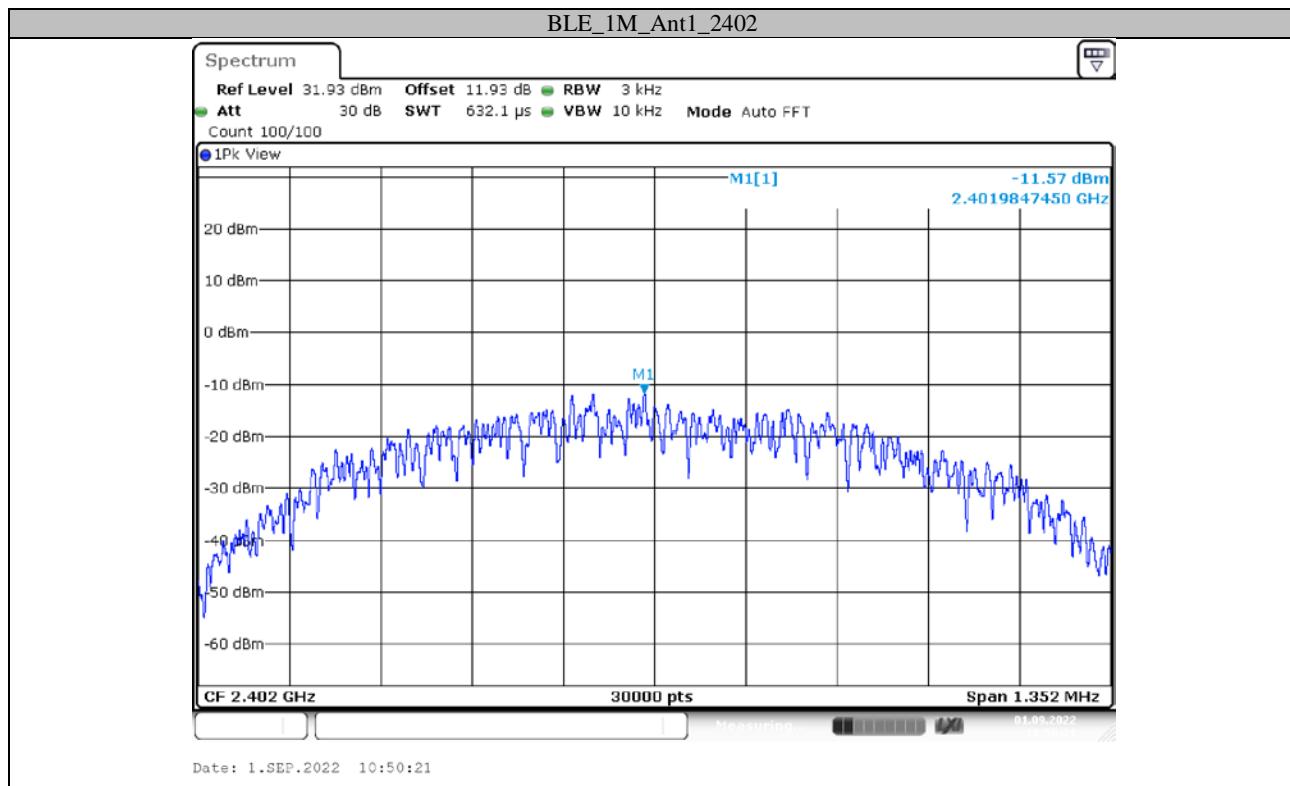
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	<b>3.61</b>	<=30	PASS
		2440	3.41	<=30	PASS
		2480	3.19	<=30	PASS

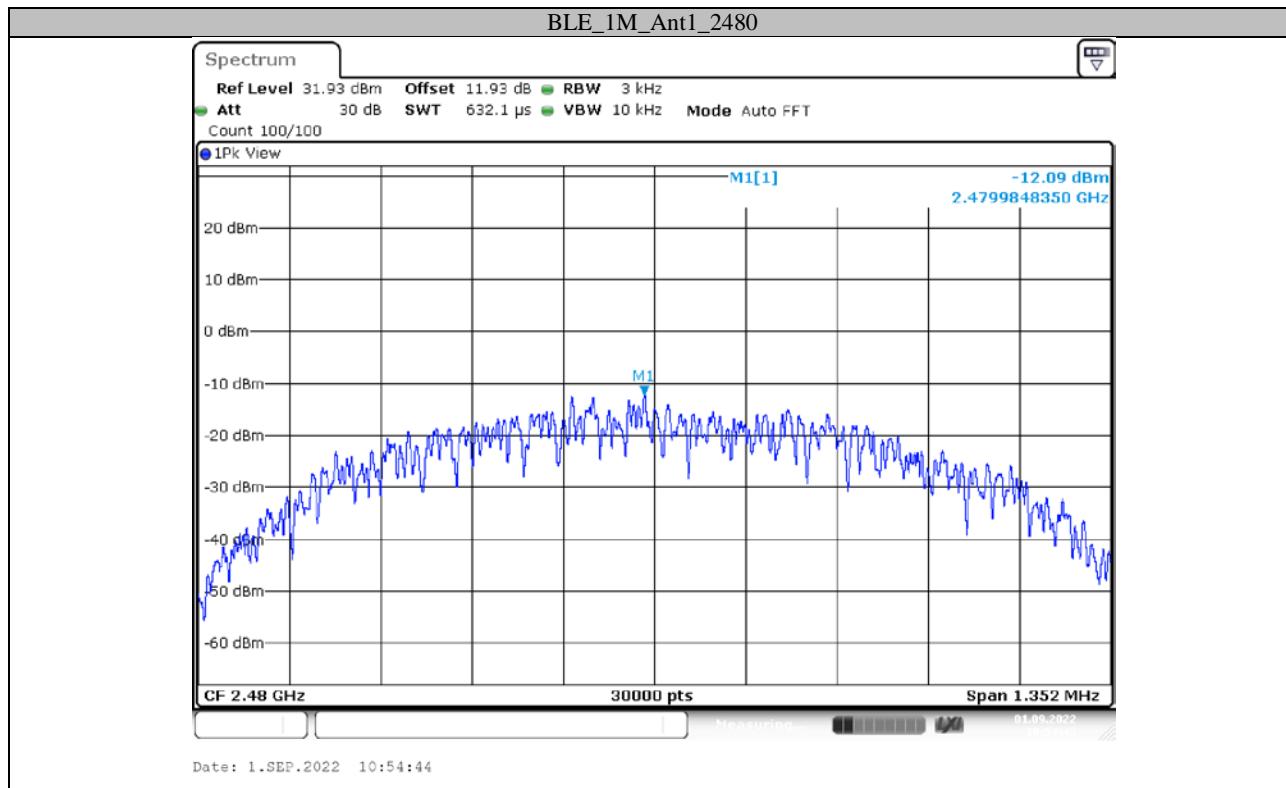
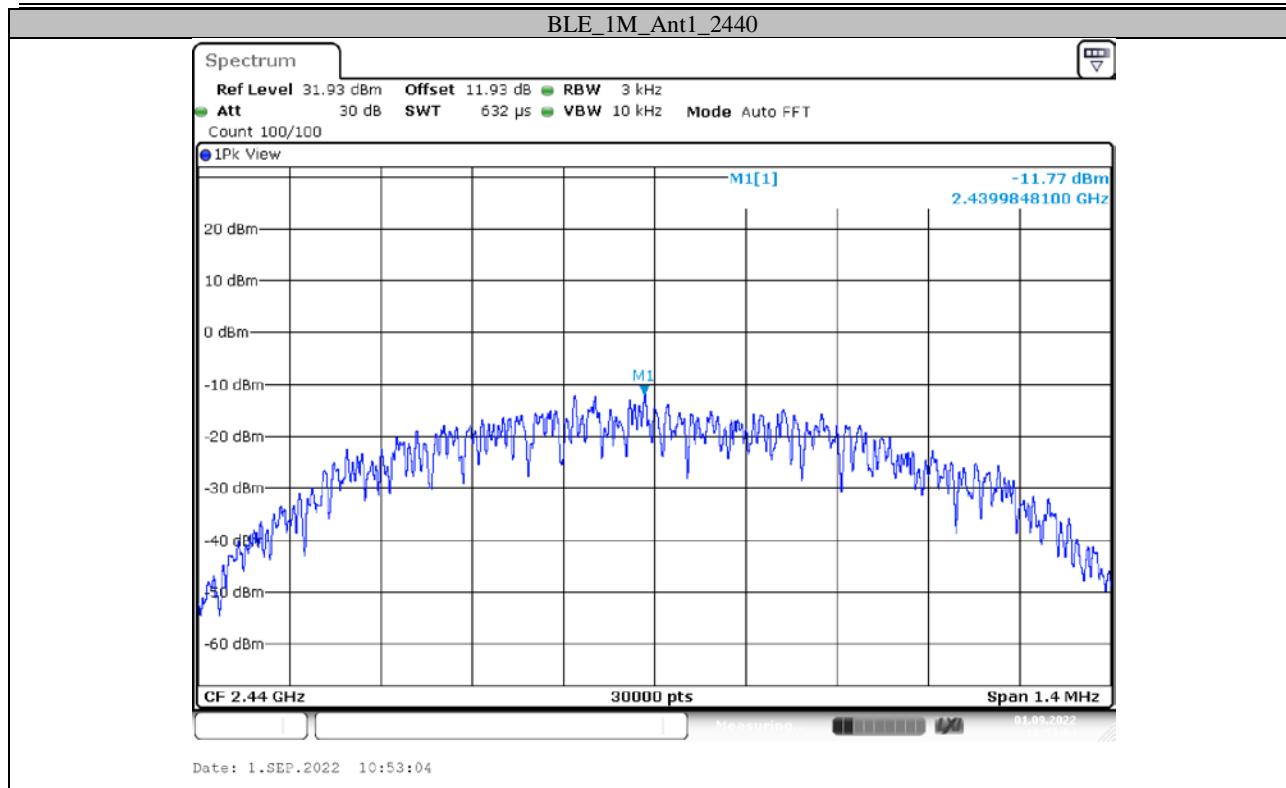
## Appendix D: Power spectral density

### Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.57	<=8	PASS
		2440	-11.77	<=8	PASS
		2480	-12.09	<=8	PASS

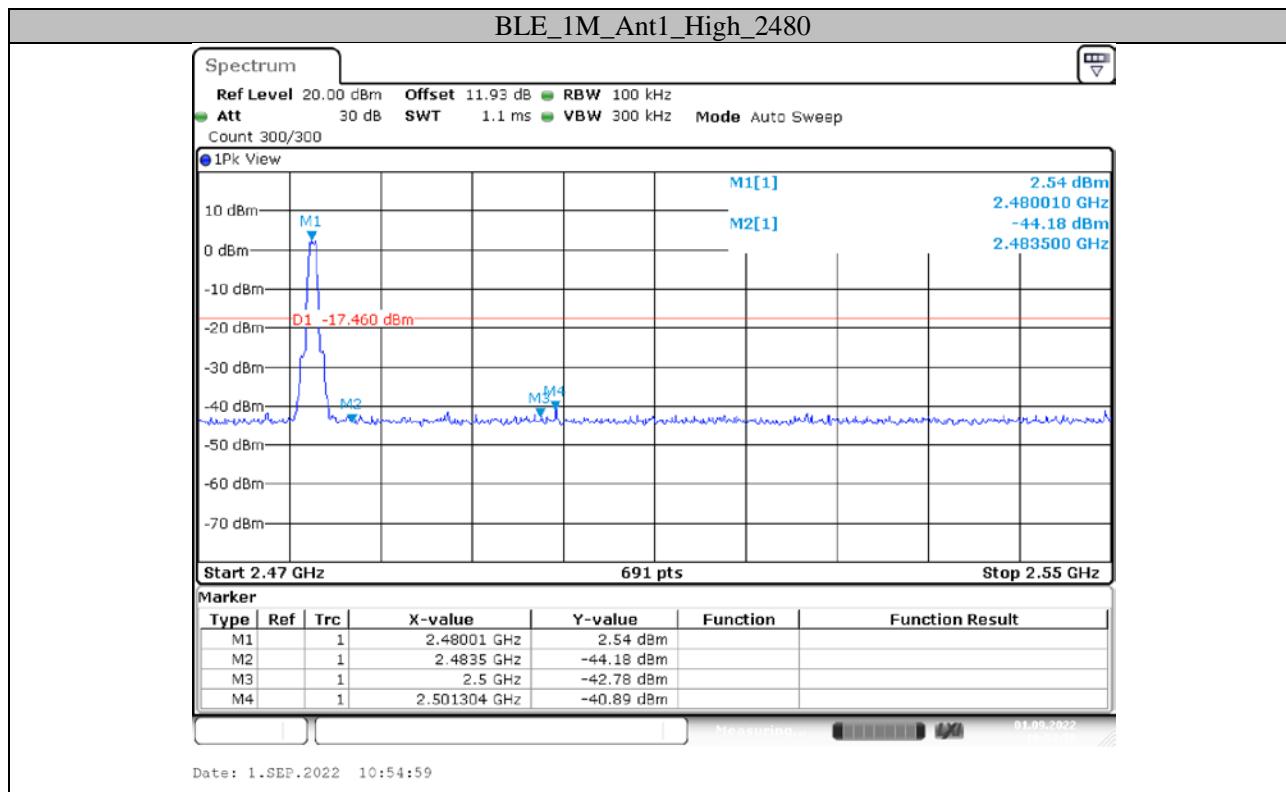
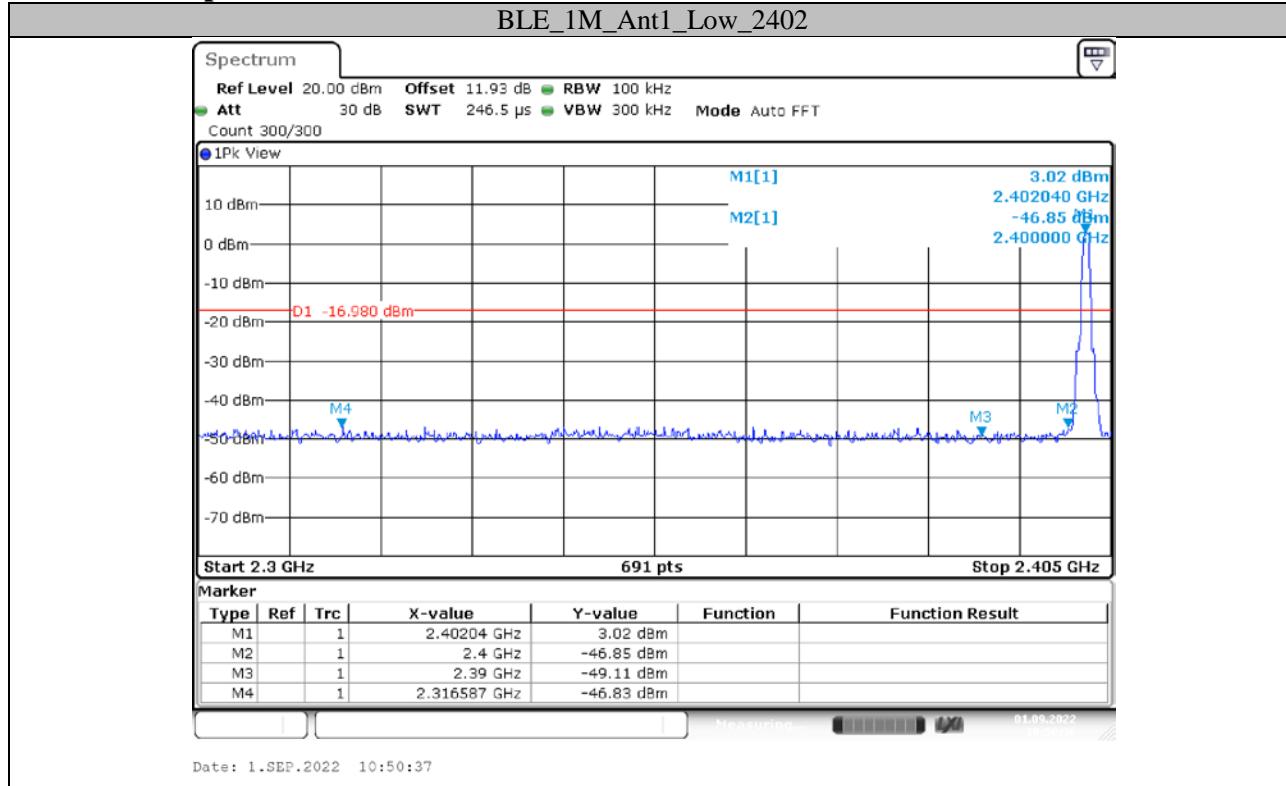
### Test Graphs





## Appendix E: Band edge measurements

### Test Graphs

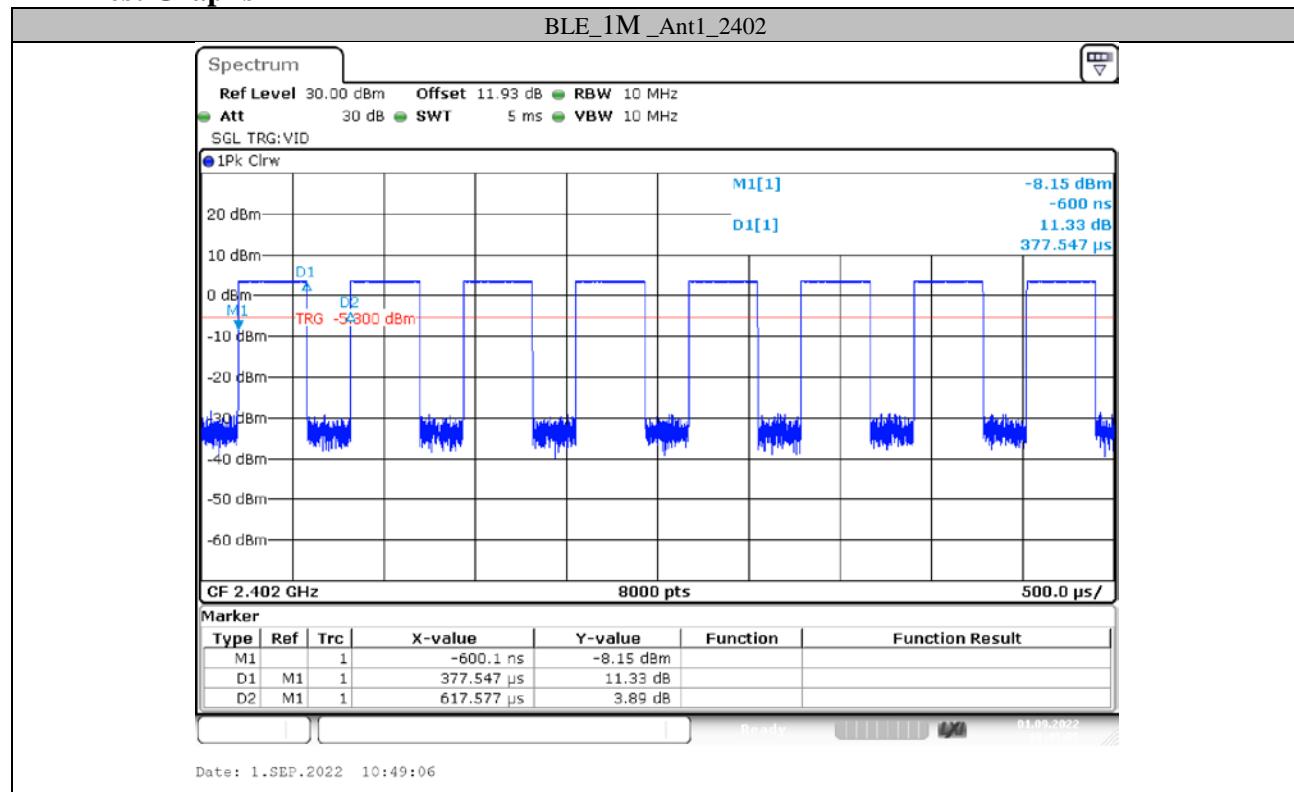


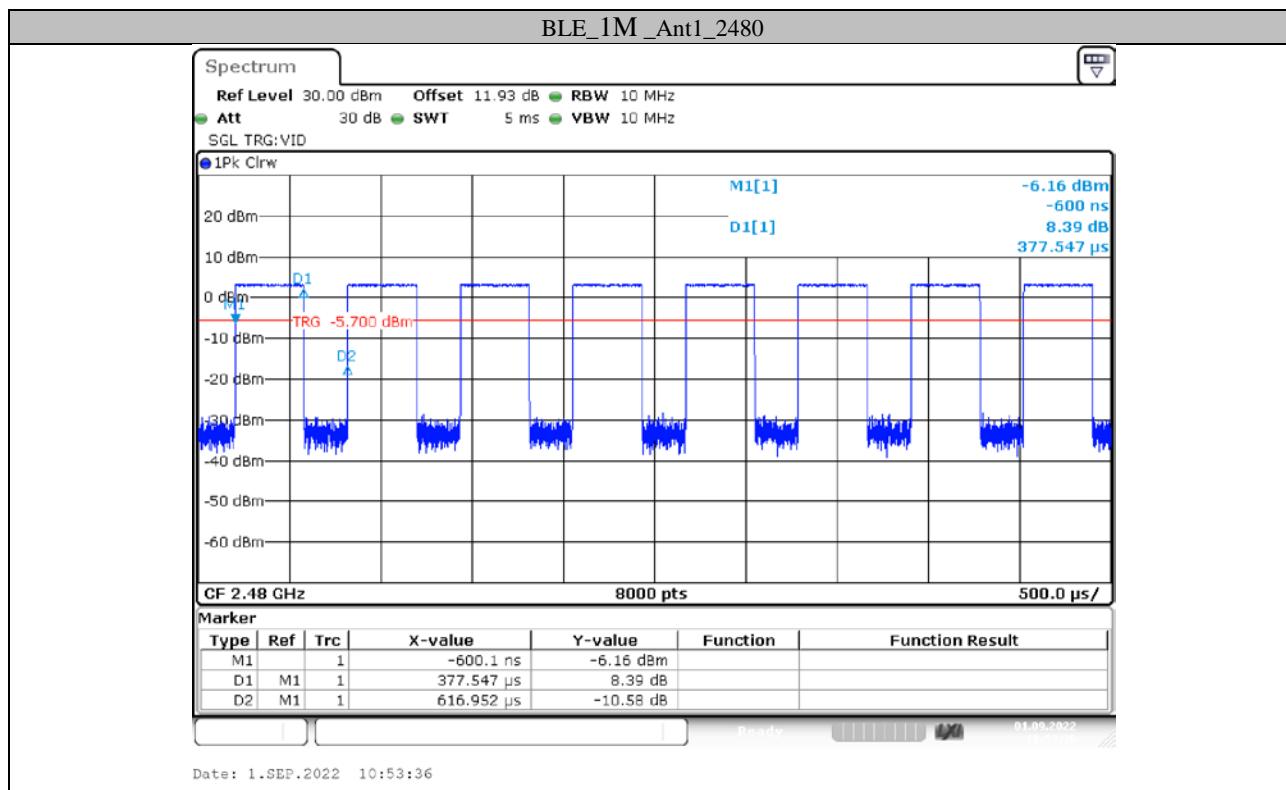
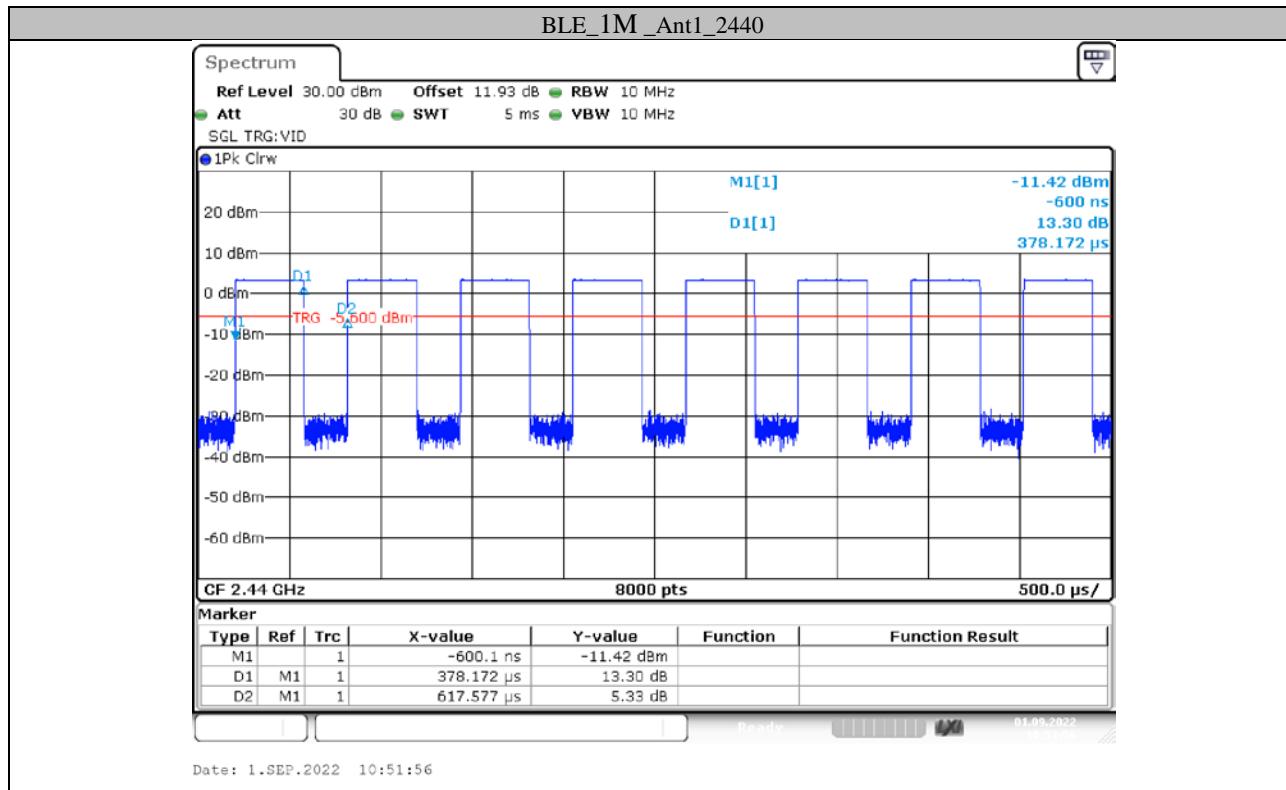
## Appendix F: Duty Cycle

### Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2402	0.38	0.62	61.13
		2440	0.38	0.62	61.23
		2480	0.38	0.62	61.20

### Test Graphs





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