



FCC PART 15.247

TEST REPORT

For

SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD

A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE,
GUANLAN, LONGHUA, SHENZHEN, China

FCC ID: 2ANMU-Y1000-PRO

Report Type: Original Report	Product Type: Smart Phone
Report Number: RSZ200512011-00B	
Report Date: 2020-08-20	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Smart Phone
Model	Y1000 Pro
Voltage Range	DC 3.8 V from battery or DC 5.0V from adapter
Frequency Range	Bluetooth LE: 2402~2480MHz Wi-Fi: 2412~2462MHz
Transmit Power (Conducted Peak Power)	Bluetooth LE: -5.61dBm Wi-Fi: 802.11b: 15.87dBm, 802.11g: 16.63dBm 802.11n20: 16.73dBm, 802.11n40: 15.37dBm
Modulation Technique	Bluetooth LE: GFSK Wi-Fi: DSSS, OFDM
Antenna Specification	Bluetooth/Wi-Fi: 0.61dBi
Date of Test	2020-05-18 to 2020-08-20
Sample serial number	RSZ200512011-RF-S1 (Assigned by BACL, Shenzhen)
Received date	2020-05-12
Sample/EUT Status	Good condition
Adapter information	Model: HJ-0502000N2-US Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 2.0A

Objective

This 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 Bay Area Compliance Laboratories Corp. (Shenzhen). 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 with Power meter		±0.73dB
RF conducted test with spectrum		±1.6dB
AC Power Lines Conducted Emissions		±1.95dB
Emissions, Radiated	Below 1GHz	±4.75dB
	Above 1GHz	±4.88dB
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 Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, 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.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For Wi-Fi mode, 11 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	/	/
6	2437	/	/
7	2442	/	/

For 802.11b, 802.11g, 802.11n-HT20 mode, EUT was tested with Channel 1, 6 and 11,

For 802.11 n-HT40 mode, EUT was tested with Channel 3, 6 and 9.

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

BLE & Wi-Fi test in the engineer 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	1 Mbps	Default	Default	Default
802.11g	6 Mbps	Default	Default	Default
802.11n-HT20	MCS0	Default	Default	Default
802.11n-HT40	MCS0	Default	Default	Default
BLE	/	Default	Default	Default

Pre-scan with all the data rates, the above data rate is the worst case for Wi-Fi test.

Duty cycle

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

Support Equipment List and Details

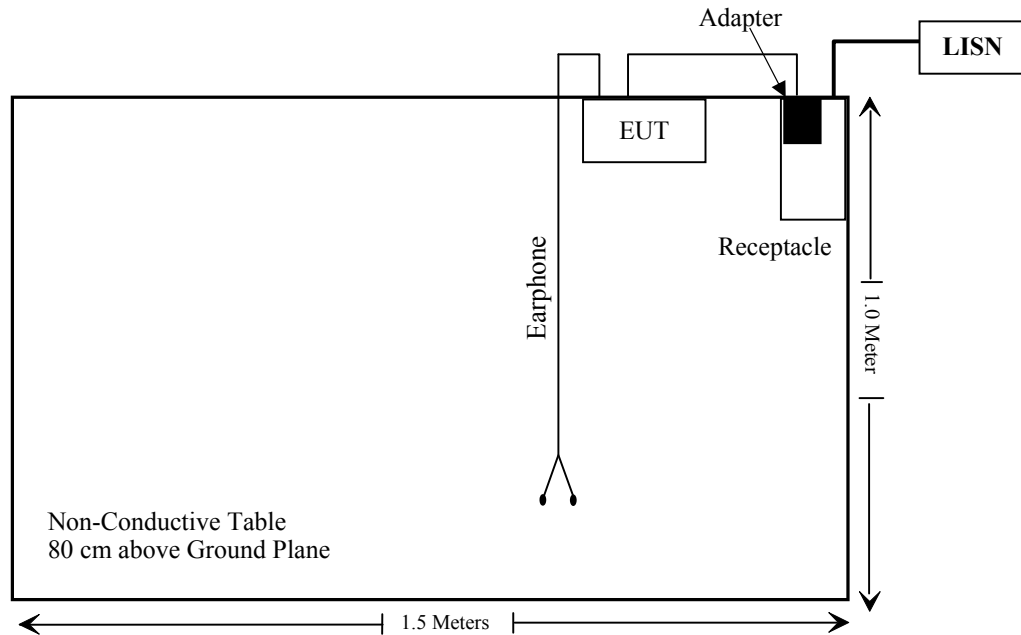
Manufacturer	Description	Model	Serial Number
/	/	/	/

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



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (1)& §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2019/7/9	2020/7/8
Rohde & Schwarz	LISN	ENV216	101613	2020/1/22	2021/1/21
Rohde & Schwarz	Transient Limitor	ESH3Z2	DE25985	2019/11/29	2020/11/28
Unknow	CE Cable	CE Cable	UF A210B-1-0720-504504	2019/11/29	2020/11/28
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
Radiated Emission Test					
R&S	EMI Test Receiver	ESR3	102455	2019/7/9	2020/7/8
Sonoma instrument	Pre-amplifier	310 N	186238	2020/4/20	2021/4/20
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2017/12/22	2020/12/21
Unknow	Cable 2	RF Cable 2	F-03-EM197	2019/11/29	2020/11/28
Unknow	Cable	Chamber Cable 1	F-03-EM236	2019/11/29	2020/11/28
Rohde & Schwarz	Auto test software	EMC 32	V9.10	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2019/7/22	2020/7/21
COM-POWER	Pre-amplifier	PA-122	181919	2019/11/29	2020/11/28
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2019/11/29	2020/11/28
Sunol Sciences	Horn Antenna	DRH-118	A052604	2017/12/22	2020/12/21
Insulted Wire Inc.	RF Cable	SPS-2503-3150	02222010	2019/11/29	2020/11/28
Unknow	RF Cable	W1101-EQ1 OUT	F-19-EM005	2019/11/29	2020/11/28
SNSD	Band Reject filter	BSF2402-2480MN-0898-001	2.4G filter	2020/4/20	2021/4/20
Ducommun Technologies	Horn antenna	ARH-4223-02	1007726-021304	2017/12/6	2020/12/5
RF Conducted Test					
Tonscend Corporation	RF control Unit	JS0806-2	19D8060154	2019/7/10	2020/7/9
Tonscend Corporation	RF control Unit	JS0806-2	19D8060154	2020/7/10	2021/7/9
Rohde & Schwarz	Signal and Spectrum Analyzer	FSV40	101473	2019/7/22	2020/7/21
Rohde & Schwarz	Signal and Spectrum Analyzer	FSV40	101473	2020/7/22	2021/7/21
Unknow	RF Cable	Unknow	2301 276	2019/11/29	2020/11/28

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) 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) (1) & §2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), 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 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Measurement Result

For BLE:

Mode	Frequency (MHz)	Max Tune-up Conducted Power (dBm)	Max Tune-up Conducted Power (mW)	Calculated Distance (mm)	Calculated value	Threshold (1-g SAR)	SAR Test Exclusion
BLE	2480	-5.0	0.32	5	0.1	3.0	Yes

Result: No SAR test is required.

For Wi-Fi:

Wi-Fi: please refer to the report number: RSZ200512011-SAB.

Result: Compliance.

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 arrangement, which was permanently attached and the antenna gain is 0.61dBi, fulfill the requirement of this section. Please refer to the EUT photos.

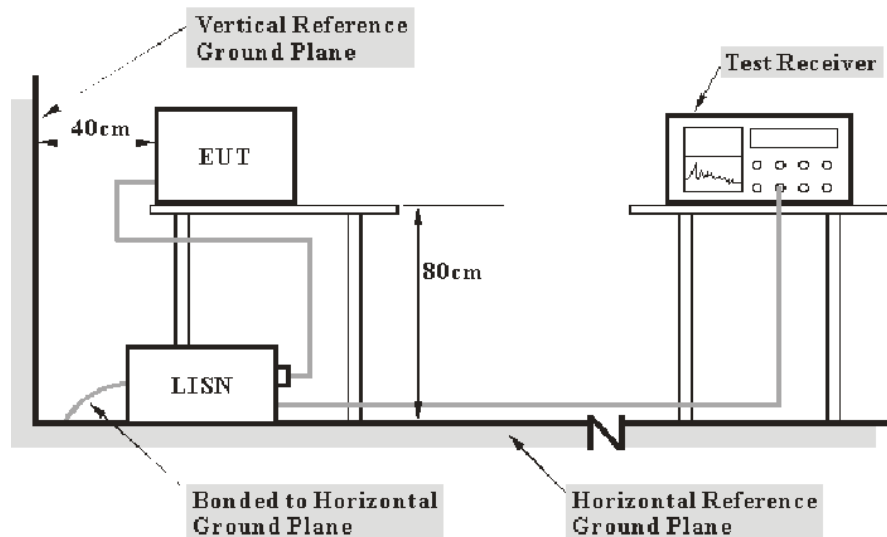
Result: Compliance.

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.

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

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

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

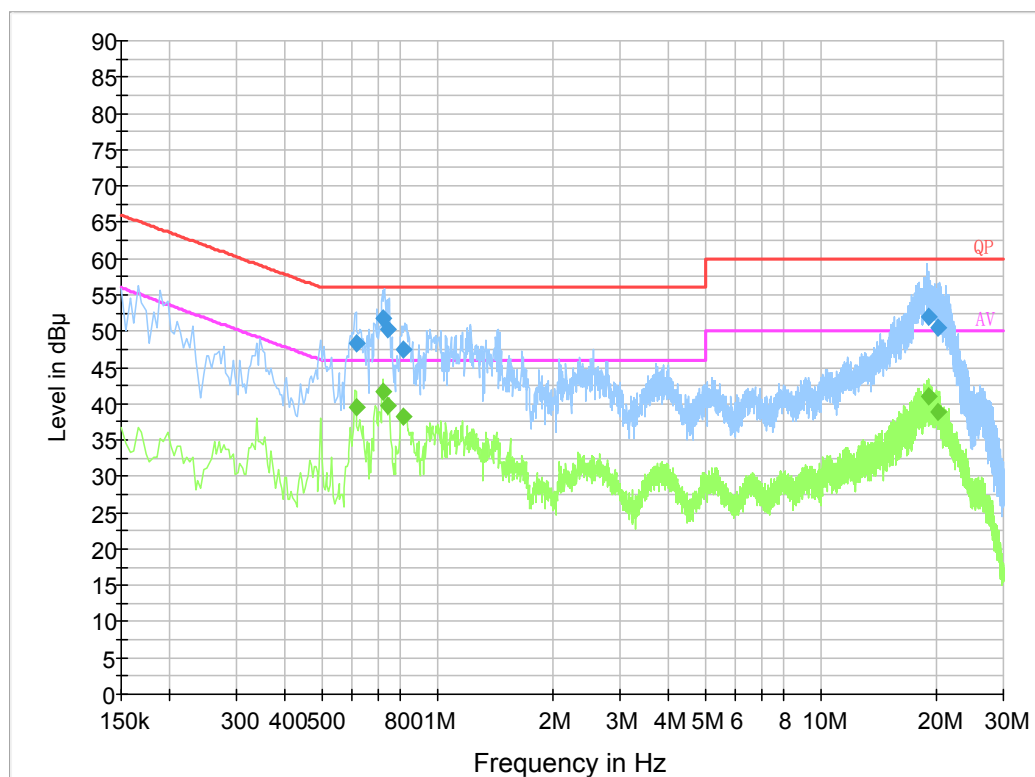
Test Data

Environmental Conditions

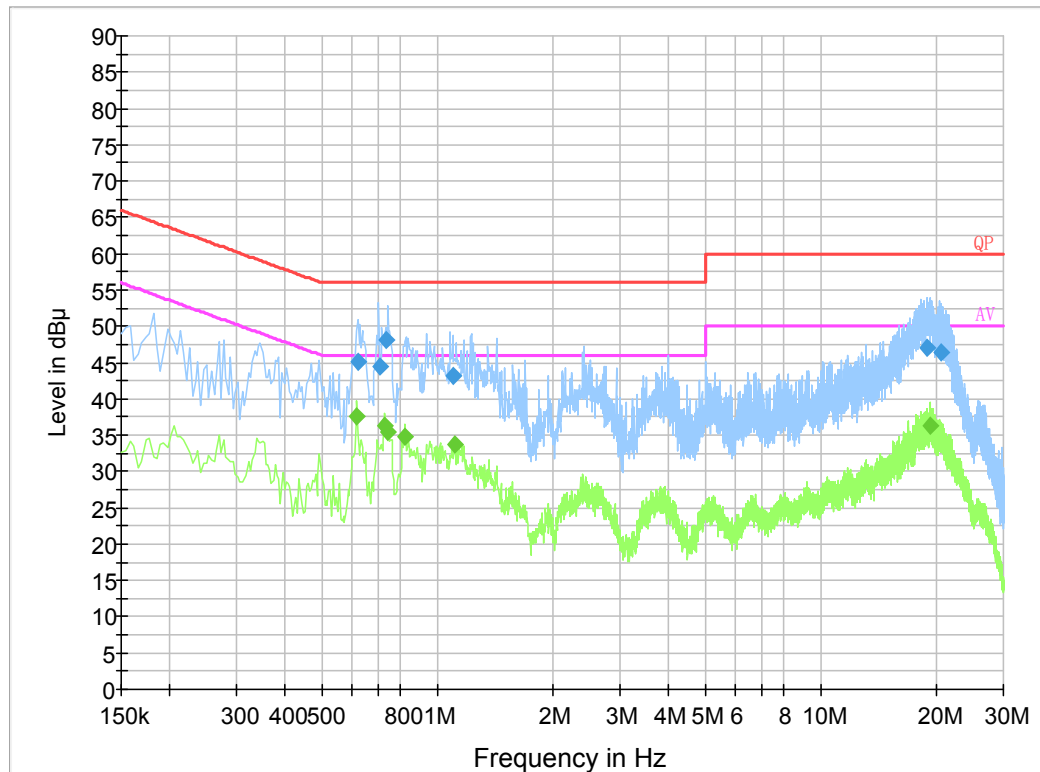
Temperature:	25 °C
Relative Humidity:	65 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2020-06-09.

EUT operation mode: Charging & Transmitting (Worst case: Wi-Fi 802.11n20 Mode, Middle channel)

AC 120V/60 Hz, Line

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.616790	48.3	19.8	56.0	7.7	QP
0.723050	51.9	19.8	56.0	4.1	QP
0.742690	50.3	19.8	56.0	5.7	QP
0.817610	47.4	19.8	56.0	8.6	QP
19.173270	51.9	20.5	60.0	8.1	QP
20.330050	50.5	20.5	60.0	9.5	QP
0.616790	39.5	19.8	46.0	6.5	Ave.
0.723050	41.6	19.8	46.0	4.4	Ave.
0.742690	39.8	19.8	46.0	6.2	Ave.
0.817610	38.3	19.8	46.0	7.7	Ave.
19.173270	40.9	20.5	50.0	9.1	Ave.
20.330050	39.0	20.5	50.0	11.0	Ave.

AC 120V/60 Hz, Neutral

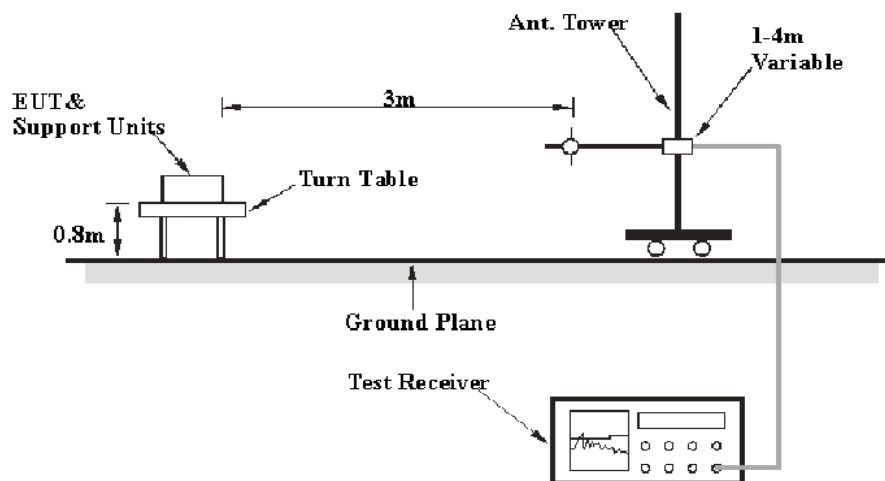
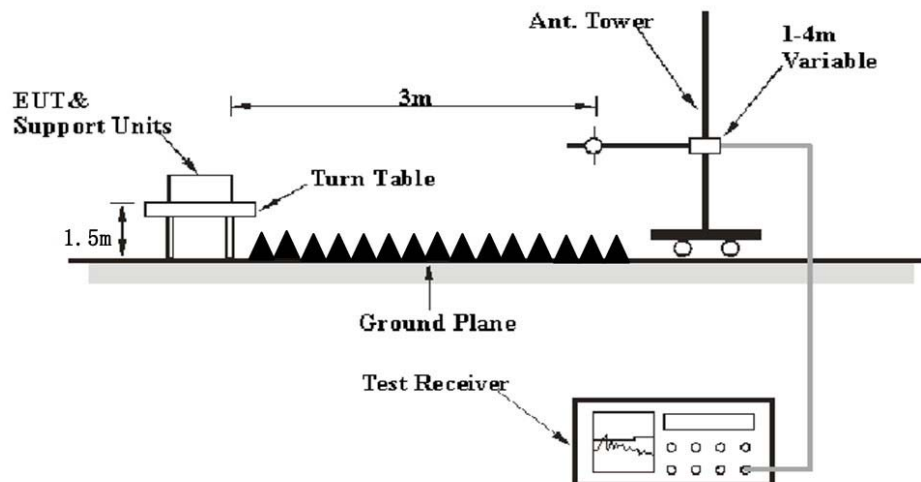
Frequency (MHz)	Corrected Amplitude (dB μ V)	Correction Factor (dB)	Limit (dB μ V)	Margin (dB)	Detector (PK/Ave./QP)
0.624670	45.0	19.8	56.0	11.0	QP
0.711410	44.6	19.8	56.0	11.4	QP
0.734810	48.1	19.8	56.0	7.9	QP
1.098230	43.2	19.8	56.0	12.8	QP
18.977870	47.1	20.3	60.0	12.9	QP
20.572030	46.4	20.4	60.0	13.6	QP
0.618000	37.6	19.8	46.0	8.4	Ave.
0.730000	36.2	19.8	46.0	9.8	Ave.
0.746000	35.5	19.8	46.0	10.5	Ave.
0.826000	34.8	19.8	46.0	11.2	Ave.
1.110000	33.7	19.8	46.0	12.3	Ave.
19.362000	36.3	20.4	50.0	13.7	Ave.

Note:

- 1) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
- 3) Margin = Limit – Corrected Amplitude

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

The system was investigated from 30 MHz to 25 GHz.

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.

Corrected Amplitude & Margin Calculation

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

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

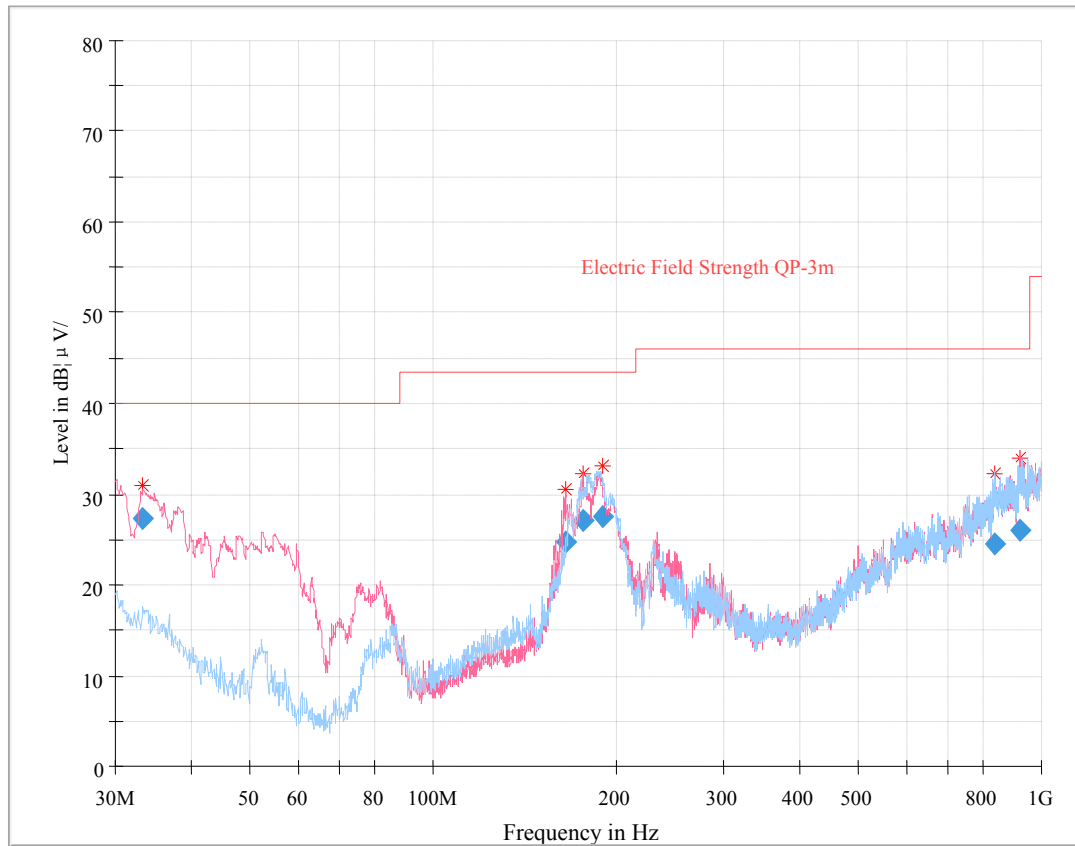
Test Data

Environmental Conditions

Temperature:	26 °C
Relative Humidity:	60 %
ATM Pressure:	101kPa

The testing was performed by Harris He on 2020-05-26 for below 1GHz and Charlie Cha on 2020-05-20 for Above 1GHz

EUT operation mode: Transmitting

30 MHz~1 GHz: (Worst case at 802.11n20 mode, Middle channel)

Frequency (MHz)	Corrected Amplitude (dBμV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
33.239875	27.37	102.0	V	137.0	-9.5	40.00	12.63
164.590125	24.78	108.0	V	73.0	-14.7	43.50	18.72
176.521250	27.08	101.0	V	48.0	-15.1	43.50	16.42
189.418750	27.59	174.0	H	282.0	-15.2	43.50	15.91
835.653375	24.62	347.0	H	138.0	2.7	46.00	21.38
921.608500	25.92	289.0	V	183.0	4.6	46.00	20.08

1 GHz-25 GHz (BLE):**1M**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2402 MHz)									
2344.35	28.51	PK	246	1.5	H	31.64	60.15	74	13.85
2344.35	13.64	Ave.	246	1.5	H	31.64	45.28	54	8.72
2491.45	28.63	PK	248	1.8	H	32.13	60.76	74	13.24
2491.45	13.73	Ave.	248	1.8	H	32.13	45.86	54	8.14
4804.00	43.85	PK	268	1.7	H	6.28	50.13	74	23.87
4804.00	28.29	Ave.	268	1.7	H	6.28	34.57	54	19.43
Middle Channel (2440 MHz)									
4880.00	43.81	PK	132	1.3	H	6.76	50.57	74	23.43
4880.00	28.13	Ave.	132	1.3	H	6.76	34.89	54	19.11
High Channel (2480 MHz)									
2326.85	28.53	PK	176	2.3	H	31.64	60.17	74	13.83
2326.85	13.62	Ave.	176	2.3	H	31.64	45.26	54	8.74
2489.61	29.02	PK	292	2.3	H	32.13	61.15	74	12.85
2489.61	13.84	Ave.	292	2.3	H	32.13	45.97	54	8.03
4960.00	43.75	PK	216	1.4	H	6.80	50.55	74	23.45
4960.00	28.09	Ave.	216	1.4	H	6.80	34.89	54	19.11

2M

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2402 MHz)									
2367.24	28.59	PK	350	1.0	H	31.87	60.46	74	13.54
2367.24	13.61	Ave.	350	1.0	H	31.87	45.48	54	8.52
2488.52	28.65	PK	286	2.4	H	32.13	60.78	74	13.22
2488.52	13.67	Ave.	286	2.4	H	32.13	45.80	54	8.20
4804.00	43.81	PK	177	2.4	H	6.28	50.09	74	23.91
4804.00	28.23	Ave.	177	2.4	H	6.28	34.51	54	19.49
Middle Channel (2440 MHz)									
4880.00	43.78	PK	157	1.8	H	6.76	50.54	74	23.46
4880.00	28.11	Ave.	157	1.8	H	6.76	34.87	54	19.13
High Channel (2480 MHz)									
2331.62	28.58	PK	39	1.1	H	31.64	60.22	74	13.78
2331.62	13.67	Ave.	39	1.1	H	31.64	45.31	54	8.69
2487.87	29.12	PK	322	1.1	H	32.13	61.25	74	12.75
2487.87	13.87	Ave.	322	1.1	H	32.13	46.00	54	8.00
4960.00	43.63	PK	120	1.1	H	6.80	50.43	74	23.57
4960.00	28.09	Ave.	120	1.1	H	6.80	34.89	54	19.11

1 GHz-25 GHz (Wi-Fi):**802.11b Mode:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2412 MHz)									
2331.27	28.71	PK	85	1.0	H	31.64	60.35	74	13.65
2331.27	13.59	Ave.	85	1.0	H	31.64	45.23	54	8.77
2488.74	28.68	PK	71	1.7	H	32.13	60.81	74	13.19
2488.74	13.58	Ave.	71	1.7	H	32.13	45.71	54	8.29
4824.00	45.51	PK	178	2.3	H	6.28	51.79	74	22.21
4824.00	37.74	Ave.	178	2.3	H	6.28	44.02	54	9.98
Middle Channel (2437MHz)									
4874.00	47.52	PK	115	2.2	H	6.76	54.28	74	19.72
4874.00	39.89	Ave.	115	2.2	H	6.76	46.65	54	7.35
High Channel (2462 MHz)									
2336.85	28.74	PK	122	2.3	H	31.64	60.38	74	13.62
2336.85	13.57	Ave.	122	2.3	H	31.64	45.21	54	8.79
2493.75	28.91	PK	268	1.3	H	32.13	61.04	74	12.96
2493.75	13.69	Ave.	268	1.3	H	32.13	45.82	54	8.18
4924.00	49.85	PK	105	2.3	H	6.76	56.61	74	17.39
4924.00	44.77	Ave.	105	2.3	H	6.76	50.20	54	3.80

802.11g Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2412 MHz)									
2335.62	28.78	PK	241	1.2	H	31.64	60.42	74	13.58
2335.62	13.61	Ave.	241	1.2	H	31.64	45.25	54	8.75
2489.67	28.74	PK	117	1.1	H	32.13	60.87	74	13.13
2489.67	13.54	Ave.	117	1.1	H	32.13	45.67	54	8.33
4824.00	43.78	PK	134	2.4	H	6.28	50.06	74	23.94
4824.00	28.39	Ave.	134	2.4	H	6.28	34.67	54	19.33
Middle Channel (2437MHz)									
4874.00	43.69	PK	141	2.2	H	6.76	50.45	74	23.55
4874.00	28.34	Ave.	141	2.2	H	6.76	35.10	54	18.90
High Channel (2462 MHz)									
2316.85	28.95	PK	143	2.5	H	31.64	60.59	74	13.41
2316.85	13.65	Ave.	143	2.5	H	31.64	45.29	54	8.71
2483.72	38.95	PK	207	2.0	H	32.13	71.08	74	2.92
2483.72	19.23	Ave.	207	2.0	H	32.13	51.36	54	2.64
4924.00	43.51	PK	99	1.6	H	6.76	50.27	74	23.73
4924.00	28.22	Ave.	99	1.6	H	6.76	34.98	54	19.02

802.11n-HT20 Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2412 MHz)									
2331.52	28.74	PK	142	2.5	H	31.64	60.38	74	13.62
2331.52	13.61	Ave.	142	2.5	H	31.64	45.25	54	8.75
2488.79	28.75	PK	144	1.9	H	32.13	60.88	74	13.12
2488.79	13.62	Ave.	144	1.9	H	32.13	45.75	54	8.25
4824.00	43.71	PK	143	1.1	H	6.28	49.99	74	24.01
4824.00	28.26	Ave.	143	1.1	H	6.28	34.54	54	19.46
Middle Channel (2437MHz)									
4874.00	43.68	PK	307	2.1	H	6.76	50.44	74	23.56
4874.00	28.21	Ave.	307	2.1	H	6.76	34.97	54	19.03
High Channel (2462 MHz)									
2336.85	28.81	PK	138	2.0	H	31.64	60.45	74	13.55
2336.85	13.64	Ave.	138	2.0	H	31.64	45.28	54	8.72
2484.75	37.67	PK	95	1.3	H	32.13	69.80	74	4.20
2484.75	18.12	Ave.	95	1.3	H	32.13	50.25	54	3.75
4924.00	43.65	PK	289	1.1	H	6.76	50.41	74	23.59
4924.00	28.19	Ave.	289	1.1	H	6.76	34.95	54	19.05

802.11n-HT40 Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)				
Low Channel (2422 MHz)									
2341.16	28.77	PK	356	1.6	H	31.64	60.41	74	13.59
2341.16	13.61	Ave.	356	1.6	H	31.64	45.25	54	8.75
2488.62	28.78	PK	23	1.5	H	32.13	60.91	74	13.09
2488.62	13.68	Ave.	23	1.5	H	32.13	45.81	54	8.19
4844.00	43.68	PK	54	1.7	H	6.28	49.96	74	24.04
4844.00	28.29	Ave.	54	1.7	H	6.28	34.57	54	19.43
Middle Channel (2437MHz)									
4874.00	43.66	PK	214	2.5	H	6.76	50.42	74	23.58
4874.00	28.23	Ave.	214	2.5	H	6.76	34.99	54	19.01
High Channel (2452 MHz)									
2354.15	28.65	PK	287	2.1	H	31.77	60.42	74	13.58
2354.15	13.51	Ave.	287	2.1	H	31.77	45.28	54	8.72
2487.56	29.87	PK	359	2.3	H	32.13	62.00	74	12.00
2487.56	13.95	Ave.	359	2.3	H	32.13	46.08	54	7.92
4904.00	43.62	PK	352	2.1	H	6.76	50.38	74	23.62
4904.00	28.18	Ave.	352	2.1	H	6.76	34.94	54	19.06

Note:

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

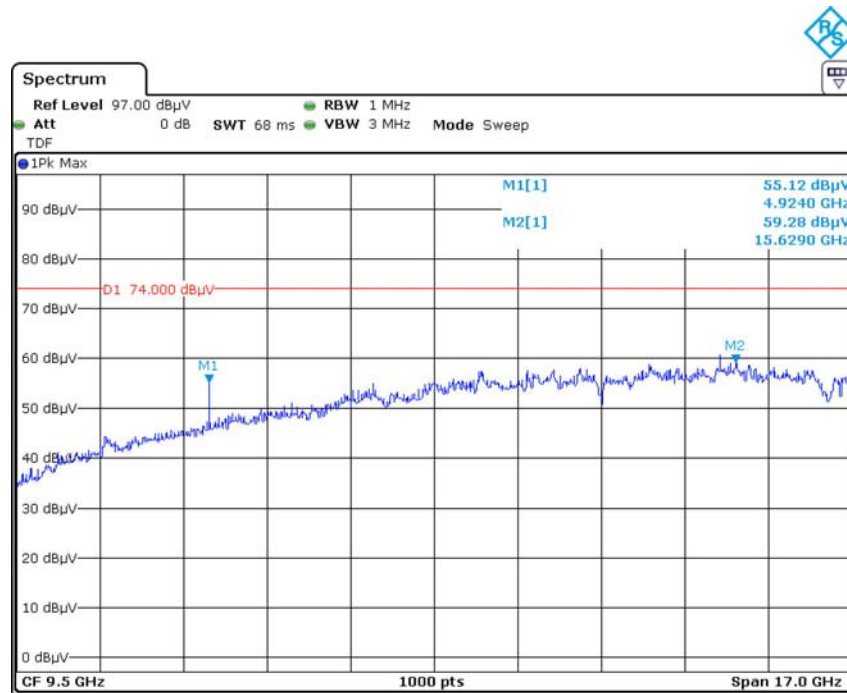
Corrected Amplitude = Corrected Factor + Reading

Margin = Limit - Corrected. Amplitude

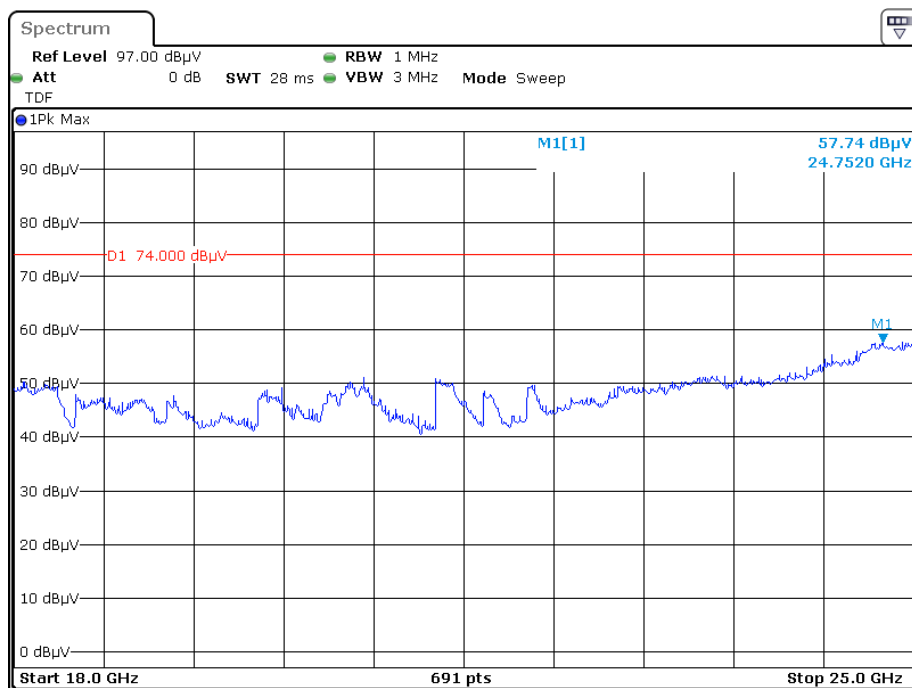
The other spurious emission which is 20dB to the limit was not recorded.

And for the pre-scan is performed with the 2400-2483.5MHz band filter.

**Pre-scan with 802.11b Mode, High channel
Horizontal**

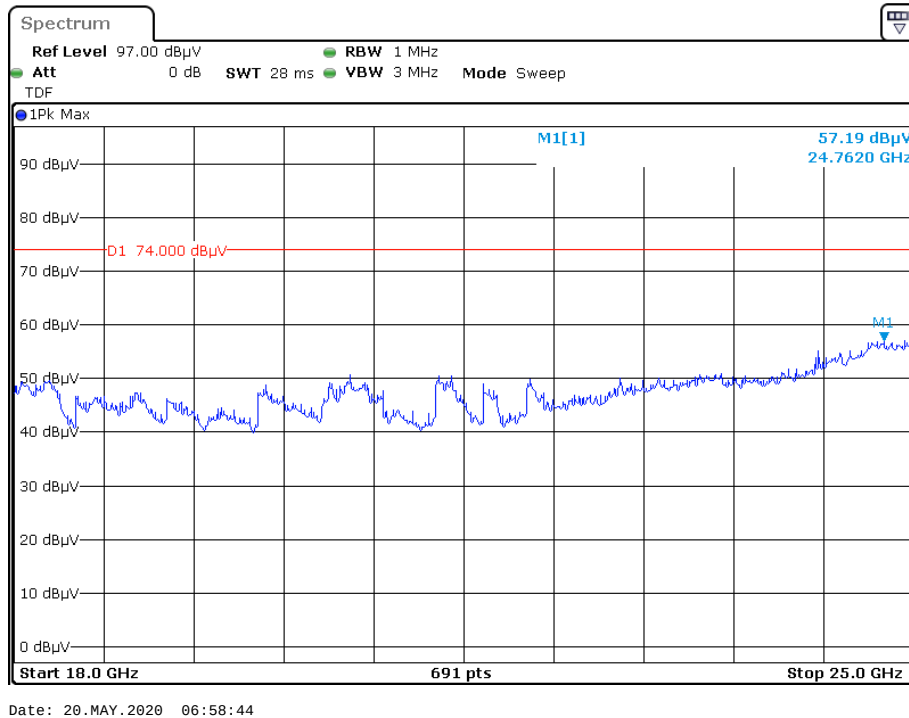
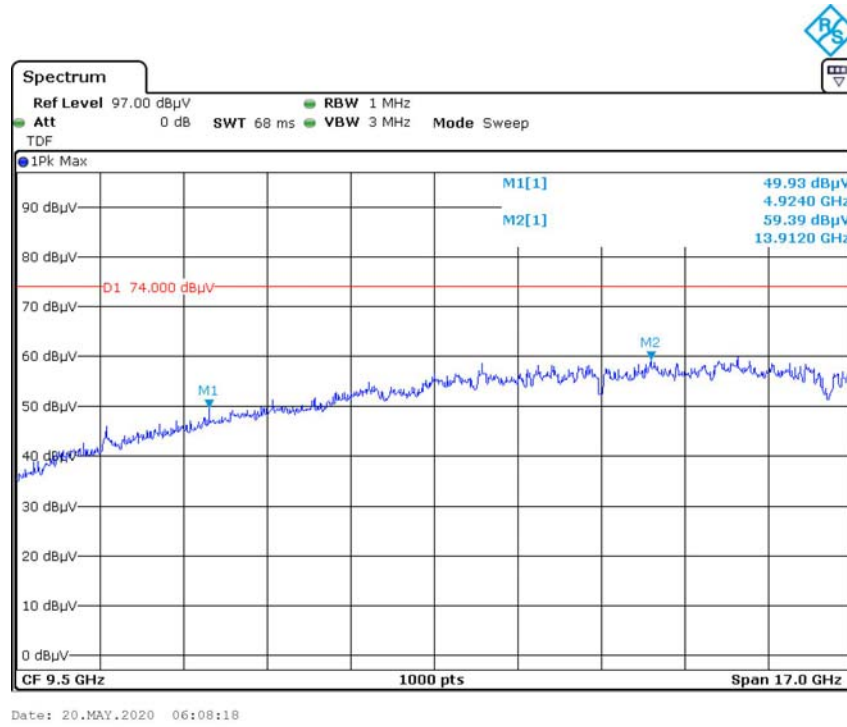


Date: 20.MAY.2020 05:54:54

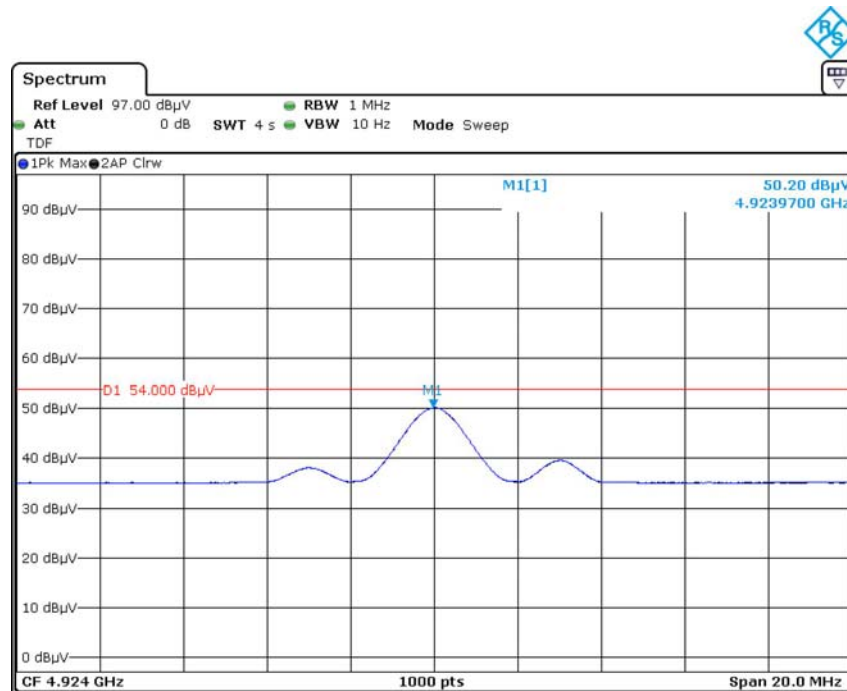


Date: 20.MAY.2020 06:51:12

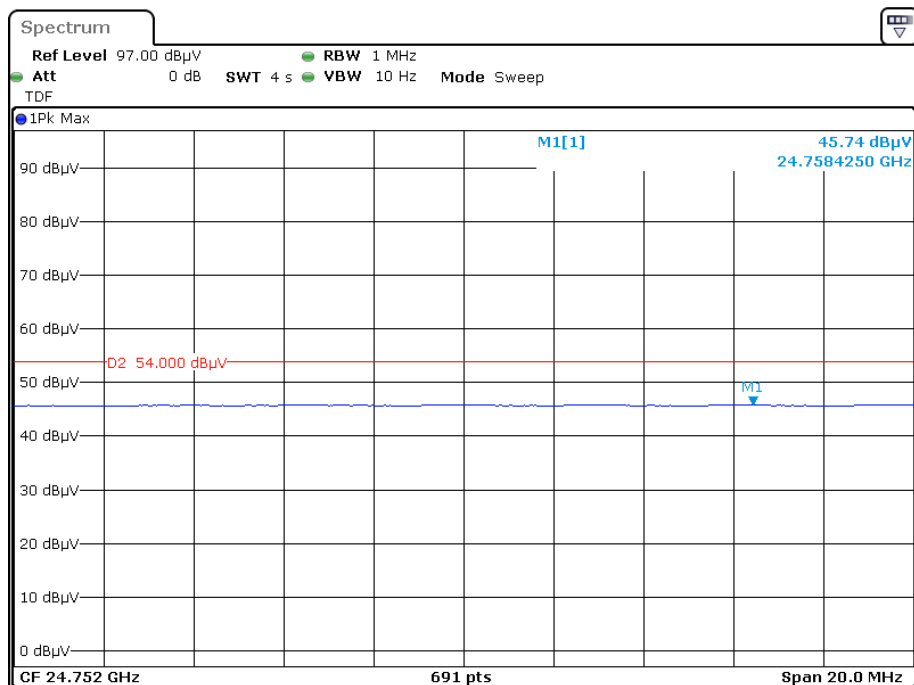
Vertical



Pre-scan for Average Horizontal

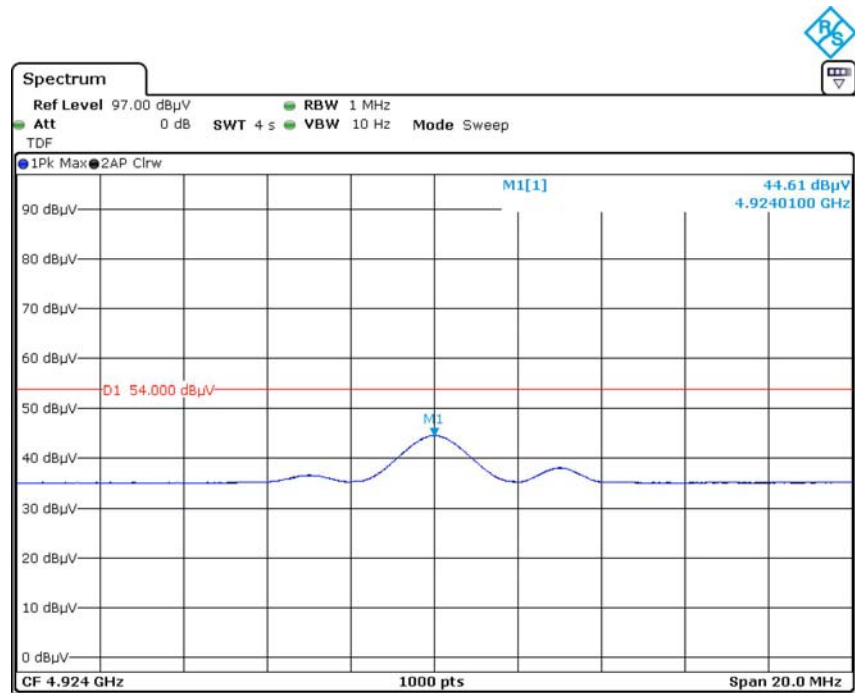


Date: 20.MAY.2020 06:03:18

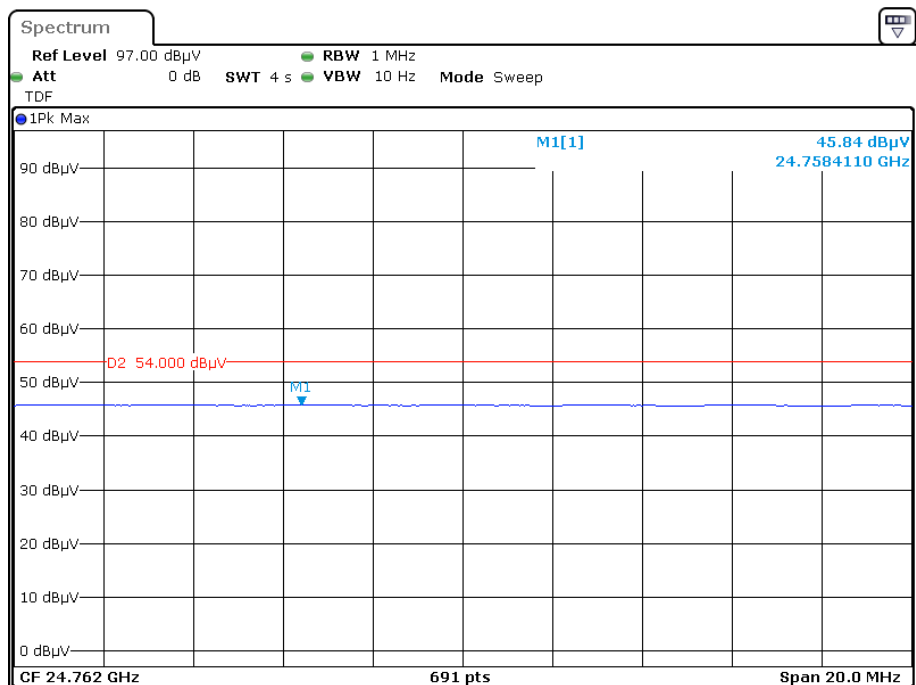


Date: 20.MAY.2020 06:54:20

Vertical



Date: 20.MAY.2020 06:14:54



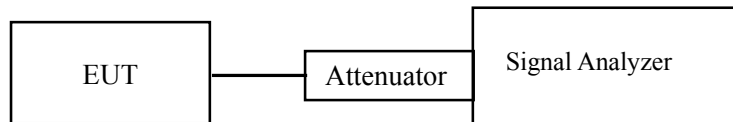
Date: 20.MAY.2020 07:03:25

FCC §15.247(a) (2) – 6 dB EMISSION 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 °C
Relative Humidity:	50 %
ATM Pressure:	101.0kPa

The testing was performed by James Fu on 2020-05-18 and 2020-08-20.

Test Result: Pass.

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

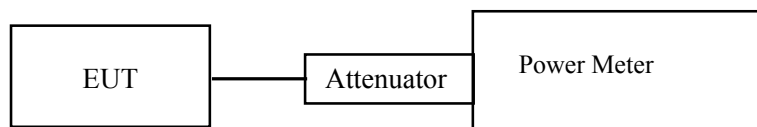
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

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.



Test Data

Environmental Conditions

Temperature:	24 °C
Relative Humidity:	50 %
ATM Pressure:	100.0 kPa

The testing was performed by James Fu on 2020-05-18.

EUT operation mode: Transmitting

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

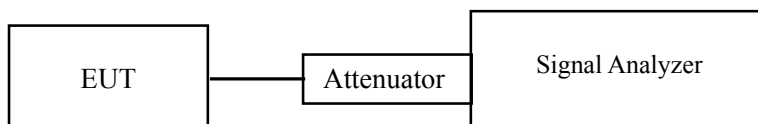
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

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 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by James Fu on 2020-05-18 and 2020-08-20.

EUT operation mode: Transmitting

Test Result: Compliance

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

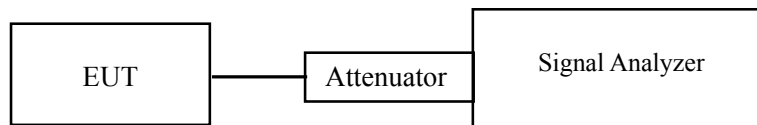
FCC §15.247(e) - POWER SPECTRAL DENSITY

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 °C
Relative Humidity:	50 %
ATM Pressure:	100.05~101.0 kPa

The testing was performed by James Fu on 2020-05-18 and 2020-08-20.

EUT operation mode: Transmitting

Test Result: Pass

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

APPENDIX Wi-Fi

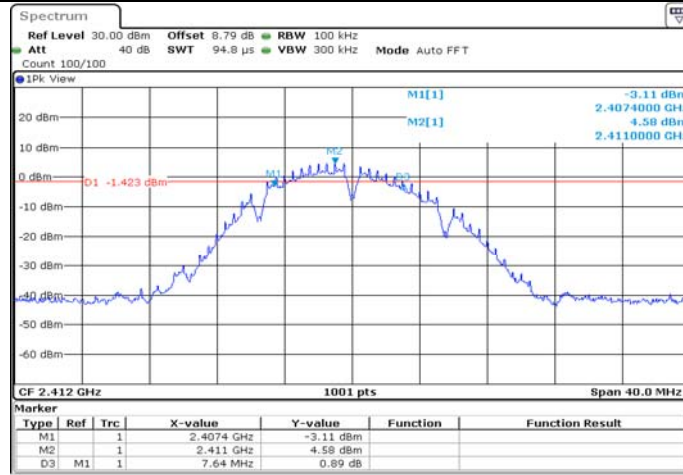
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.640	0.5	PASS
		2437	8.600	0.5	PASS
		2462	9.160	0.5	PASS
11G	Ant1	2412	12.000	0.5	PASS
		2437	16.120	0.5	PASS
		2462	16.680	0.5	PASS
11N20SISO	Ant1	2412	11.560	0.5	PASS
		2437	16.520	0.5	PASS
		2462	9.640	0.5	PASS
11N40SISO	Ant1	2422	20.880	0.5	PASS
		2437	23.040	0.5	PASS
		2452	16.240	0.5	PASS

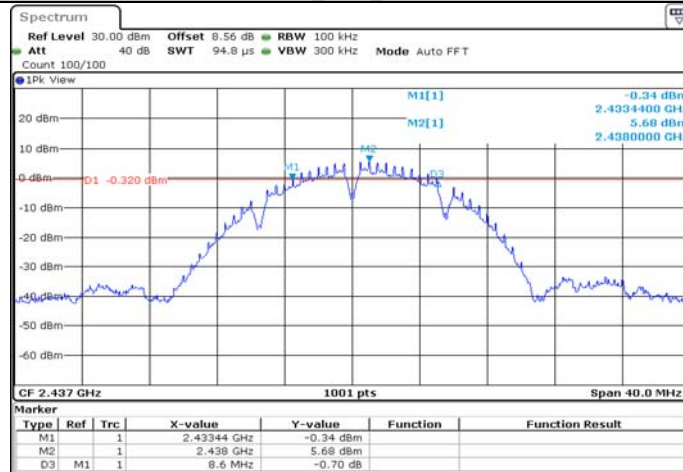
Test Graphs

11B_Ant1_2412



Date: 18.MAY.2020 21:45:47

11B_Ant1_2437

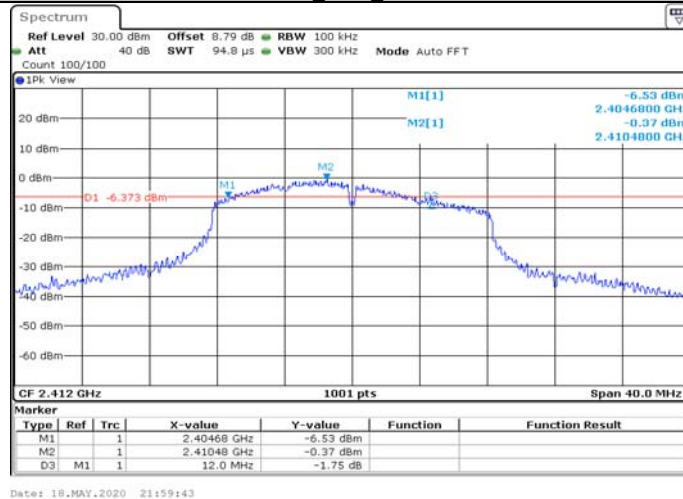


Date: 18.MAY.2020 21:47:41

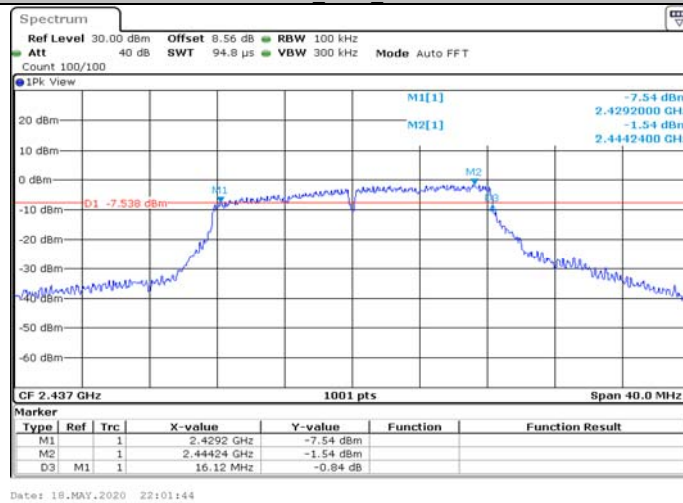
11B Ant1 2462



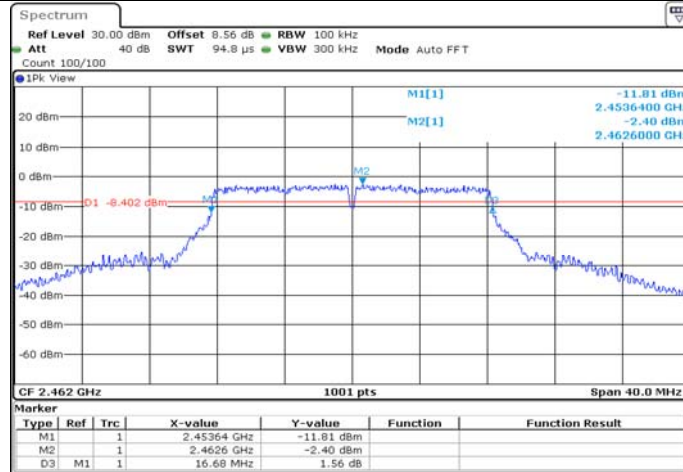
11G Ant1 2412



11G Ant1 2437

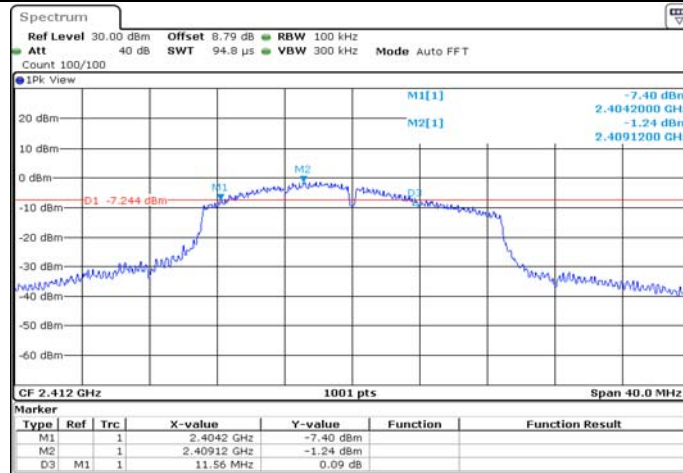


11G Ant1 2462



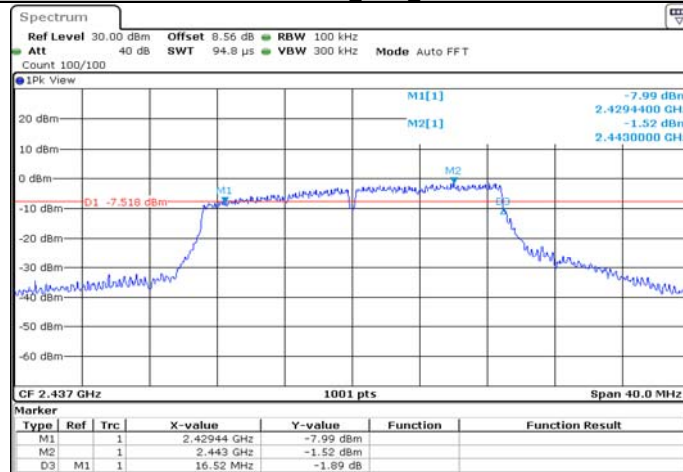
Date: 18.MAY.2020 22:04:20

11N20SISO Ant1 2412



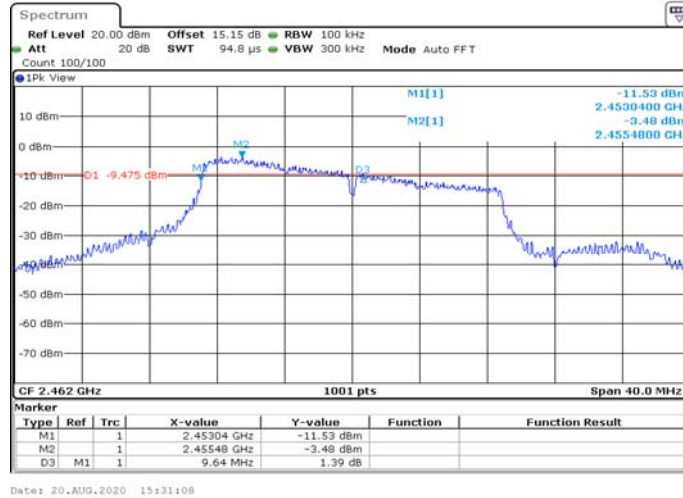
Date: 18.MAY.2020 22:09:17

11N20SISO Ant1 2437



Date: 18.MAY.2020 22:11:00

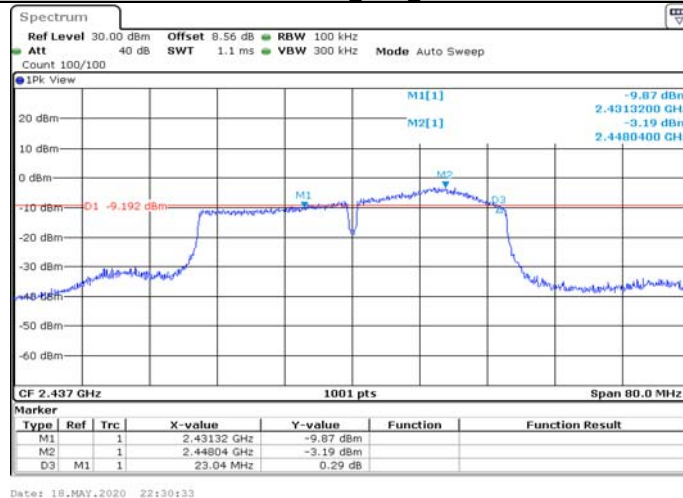
11N20SISO_Ant1 2462

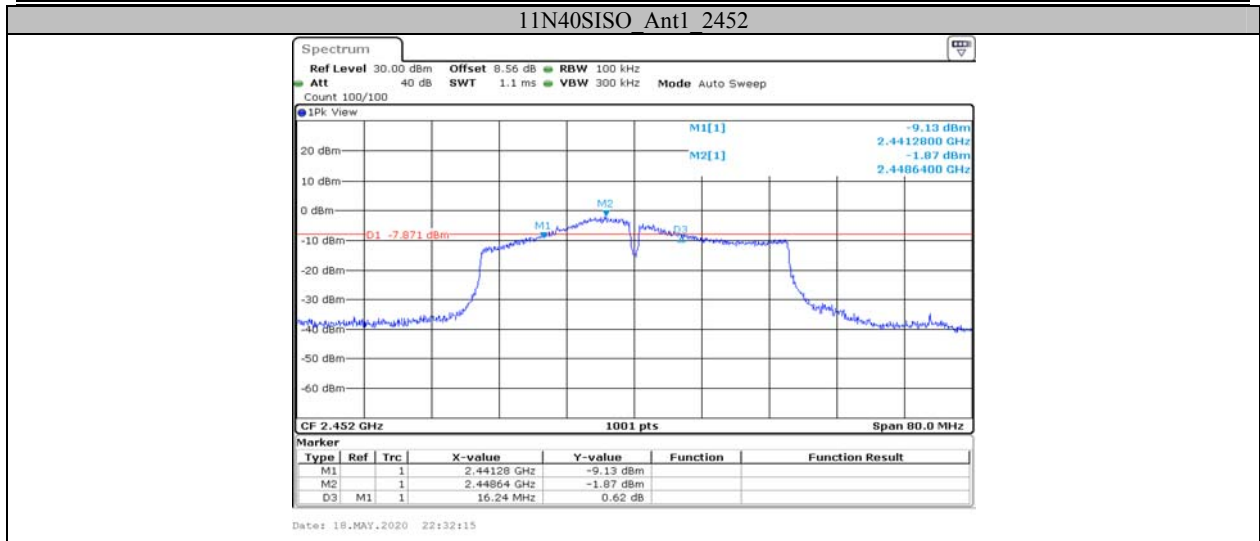


11N40SISO_Ant1 2422



11N40SISO_Ant1 2437





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

Test Mode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.507	---	PASS
		2437	13.546	---	PASS
		2462	14.026	---	PASS
11G	Ant1	2412	16.024	---	PASS
		2437	16.623	---	PASS
		2462	16.543	---	PASS
11N20SISO	Ant1	2412	17.223	---	PASS
		2437	17.662	---	PASS
		2462	17.821	---	PASS
11N40SISO	Ant1	2422	36.044	---	PASS
		2437	36.044	---	PASS
		2452	35.724	---	PASS

Test Graphs

11B_Ant1_2412



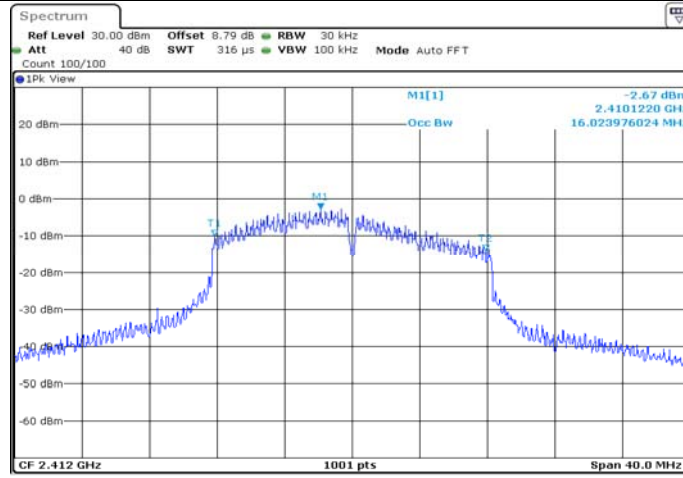
11B_Ant1_2437



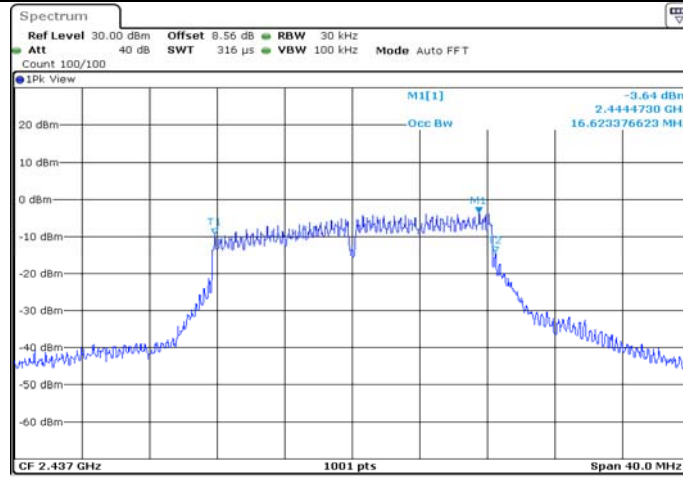
11B_Ant1_2462



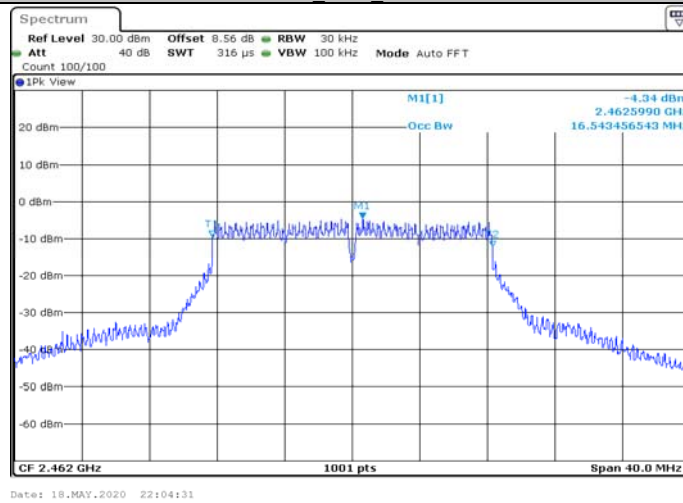
11G_Ant1_2412



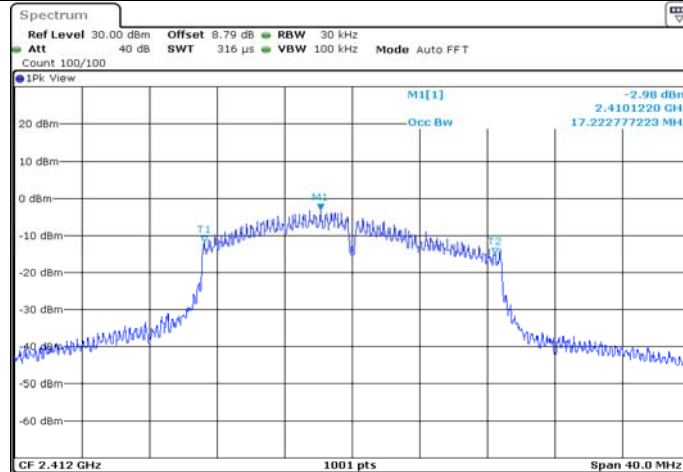
11G_Ant1_2437



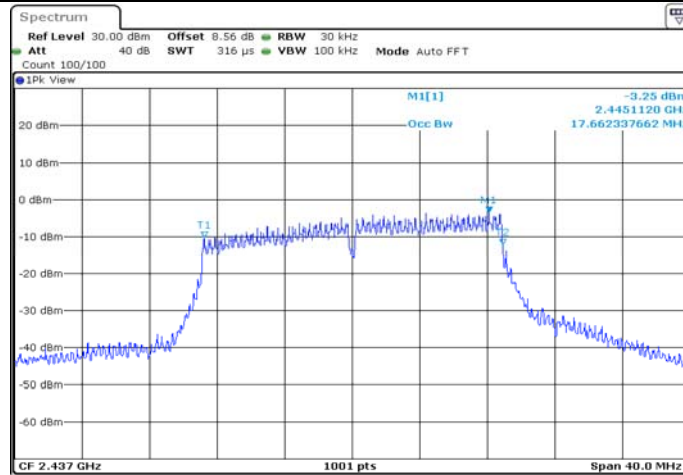
11G_Ant1_2462



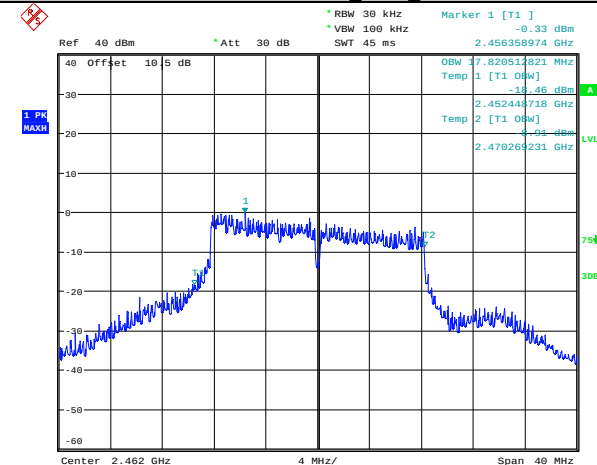
11N20SISO Ant1 2412



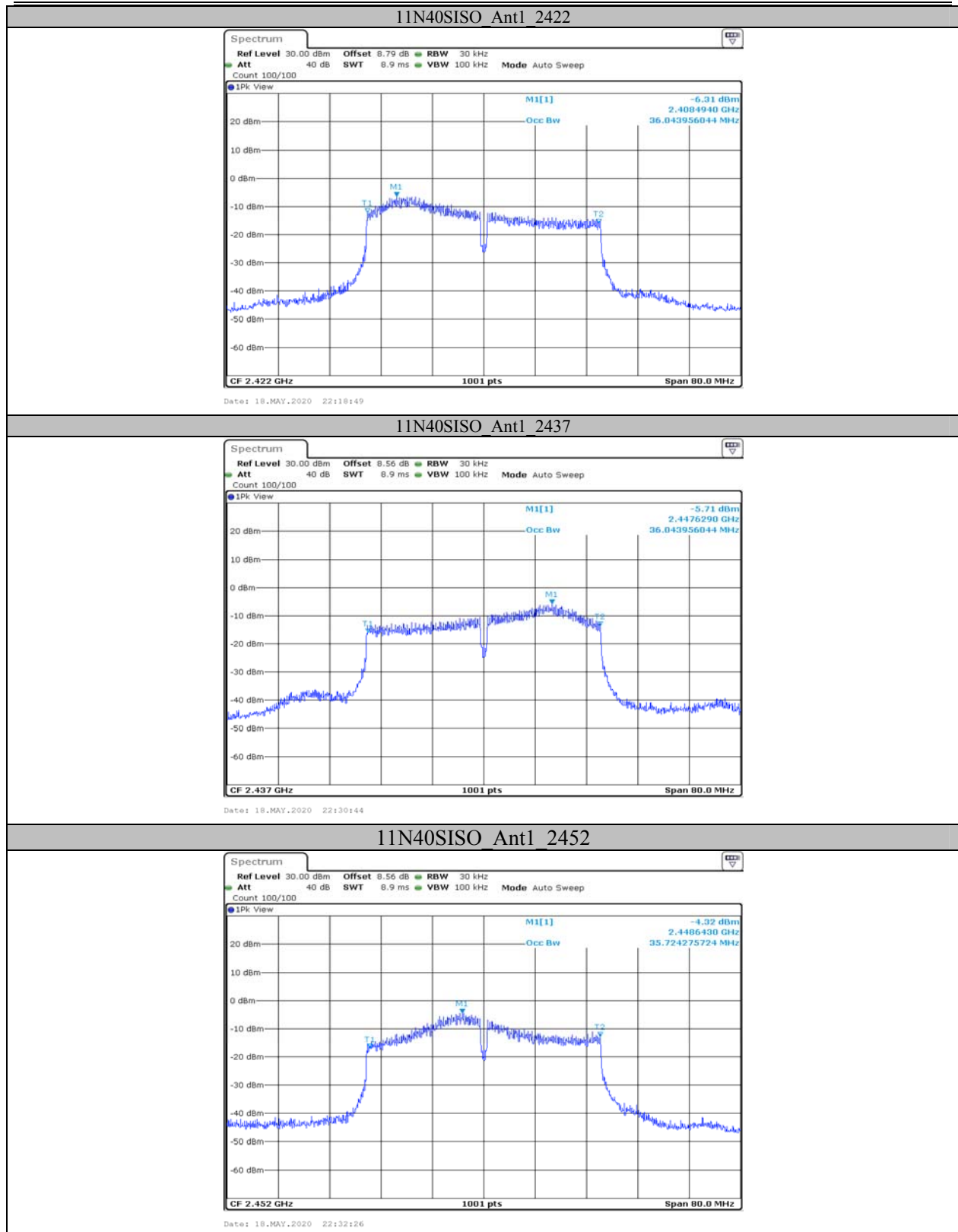
11N20SISO Ant1 2437



11N40SISO Ant1 2422



Date: 19.SEP.2020 11:02:58



Appendix C-1: Maximum conducted output power (PEAK)**Test Result**

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	14.74	<=30	PASS
		2437	15.87	<=30	PASS
		2462	15.72	<=30	PASS
11G	Ant1	2412	15.57	<=30	PASS
		2437	16.57	<=30	PASS
		2462	16.63	<=30	PASS
11N20SISO	Ant1	2412	15.41	<=30	PASS
		2437	16.73	<=30	PASS
		2462	16.58	<=30	PASS
11N40SISO	Ant1	2422	13.72	<=30	PASS
		2437	15.31	<=30	PASS
		2452	15.37	<=30	PASS

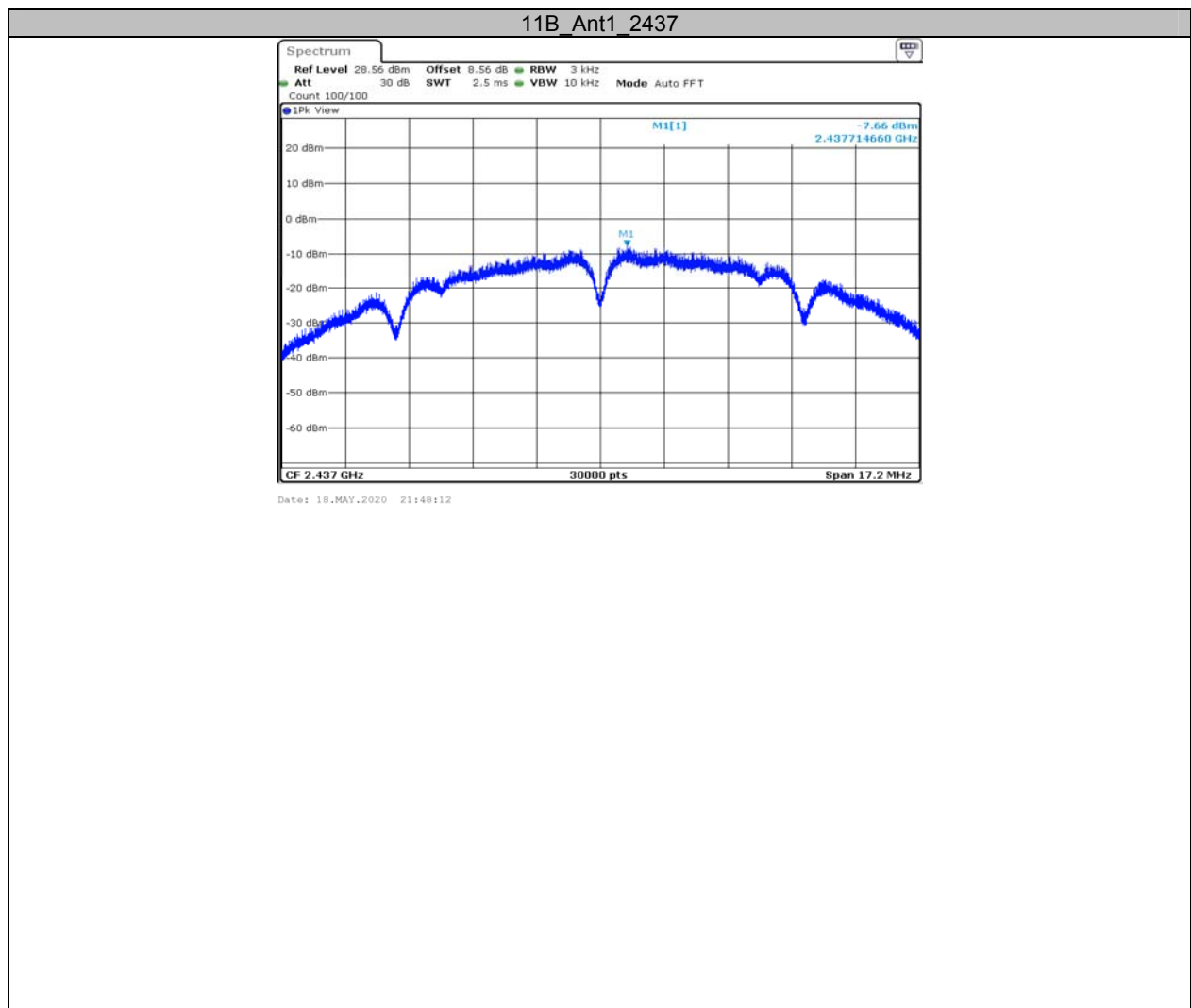
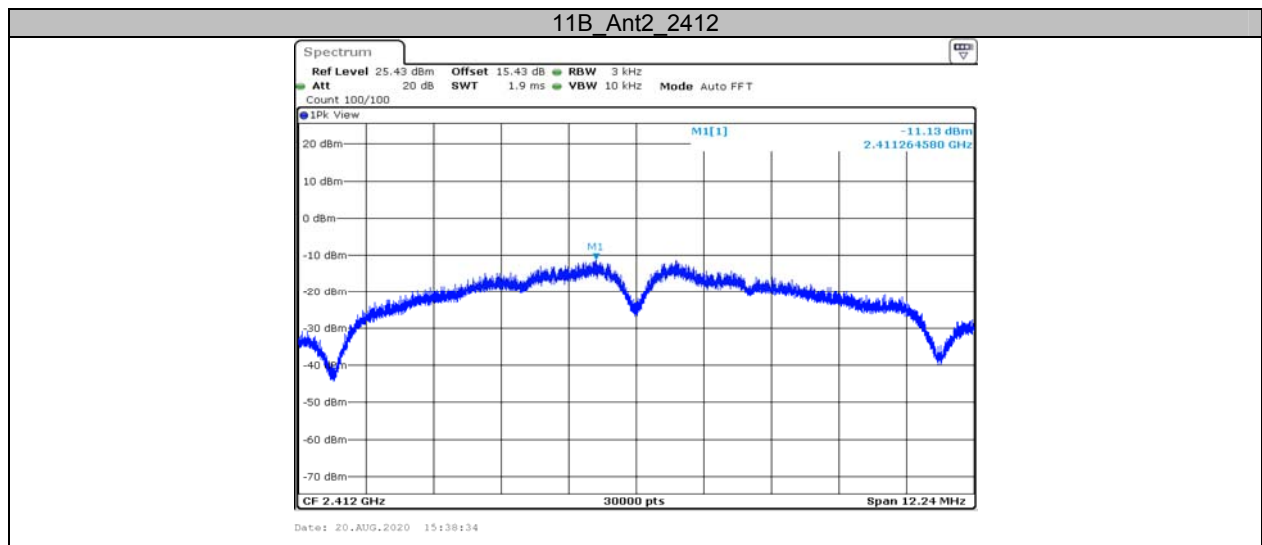
Appendix C-2: Maximum conducted output power (AVG)**Test Result**

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	13.10	<=30	PASS
		2437	14.11	<=30	PASS
		2462	14.13	<=30	PASS
11G	Ant1	2412	11.32	<=30	PASS
		2437	12.18	<=30	PASS
		2462	11.87	<=30	PASS
11N20SISO	Ant1	2412	11.06	<=30	PASS
		2437	12.16	<=30	PASS
		2462	11.80	<=30	PASS
11N40SISO	Ant1	2422	10.46	<=30	PASS
		2437	11.53	<=30	PASS
		2452	11.63	<=30	PASS

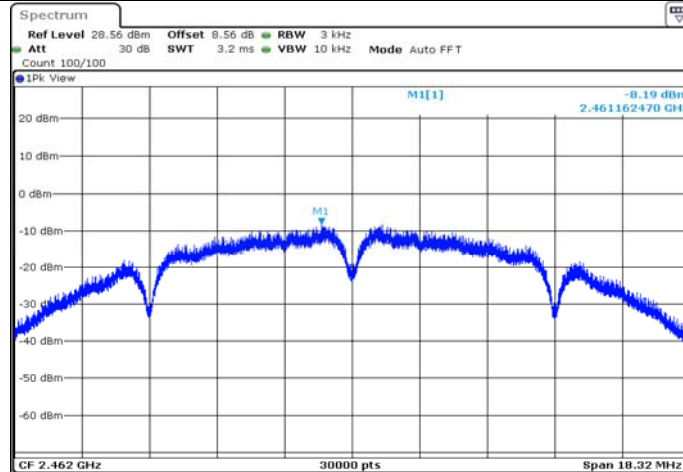
Appendix D: Maximum power spectral density**Test Result**

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.13	<=8	PASS
		2437	-7.66	<=8	PASS
		2462	-8.19	<=8	PASS
11G	Ant1	2412	-12.07	<=8	PASS
		2437	-12.58	<=8	PASS
		2462	-13.79	<=8	PASS
11N20SISO	Ant1	2412	-12.51	<=8	PASS
		2437	-12.62	<=8	PASS
		2462	-15.59	<=8	PASS
11N40SISO	Ant1	2422	-14.54	<=8	PASS
		2437	-13.31	<=8	PASS
		2452	-12.54	<=8	PASS

Test Graphs

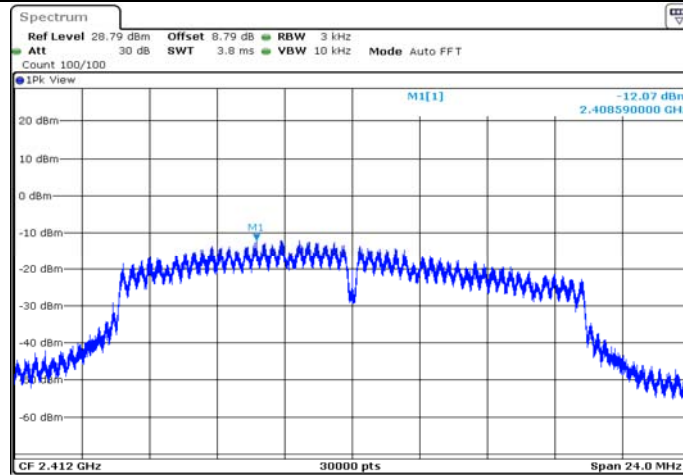


11B_Ant1_2462



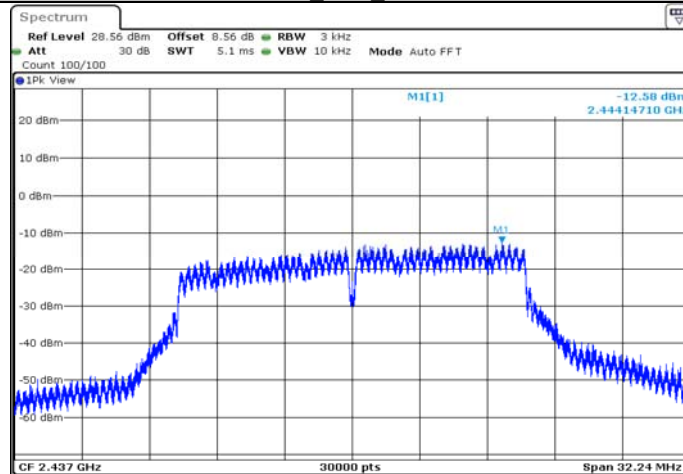
Date: 18.MAY.2020 21:56:23

11G_Ant1_2412



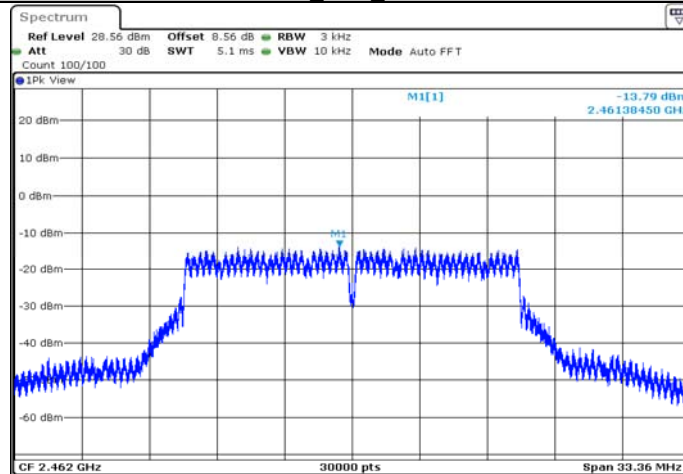
Date: 18.MAY.2020 21:59:49

11G_Ant1_2437



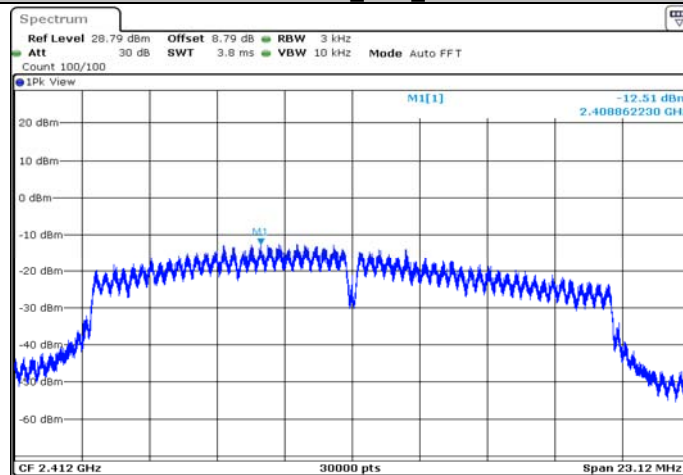
Date: 18.MAY.2020 22:02:15

11G Ant1_2462



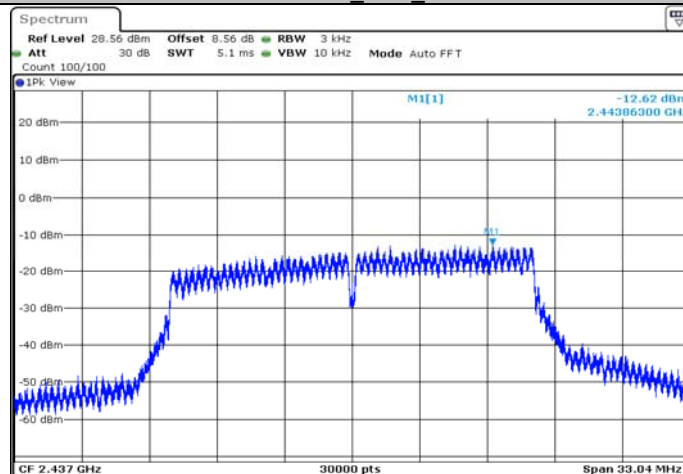
Date: 18.MAY.2020 22:05:22

11N20SISO Ant1_2412



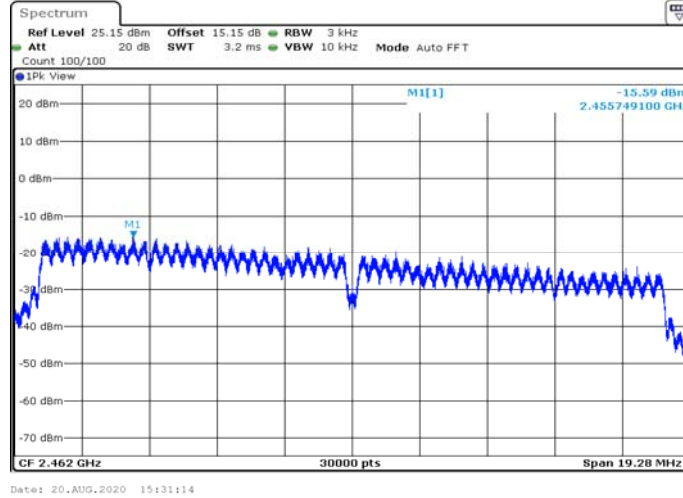
Date: 18.MAY.2020 22:09:24

11N20SISO Ant1_2437

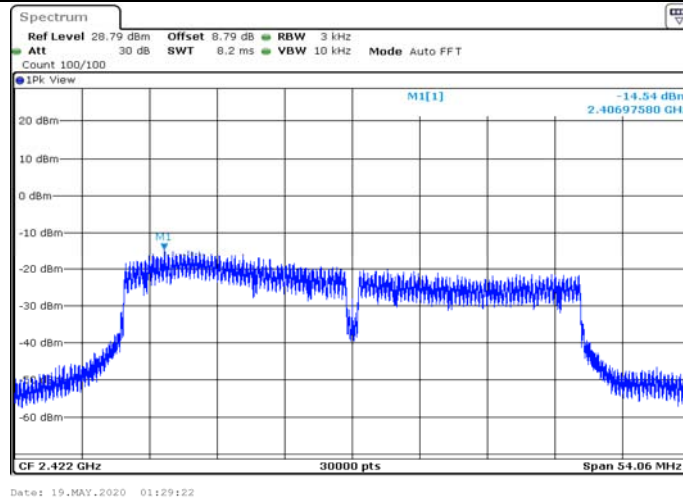


Date: 18.MAY.2020 22:11:31

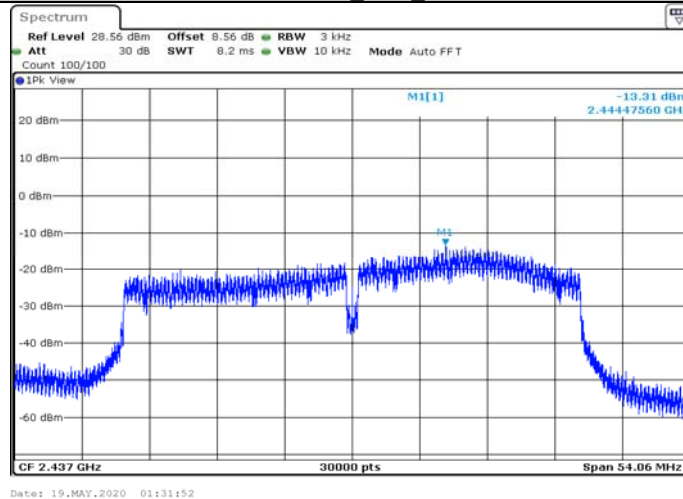
11N20SISO Ant2 2462

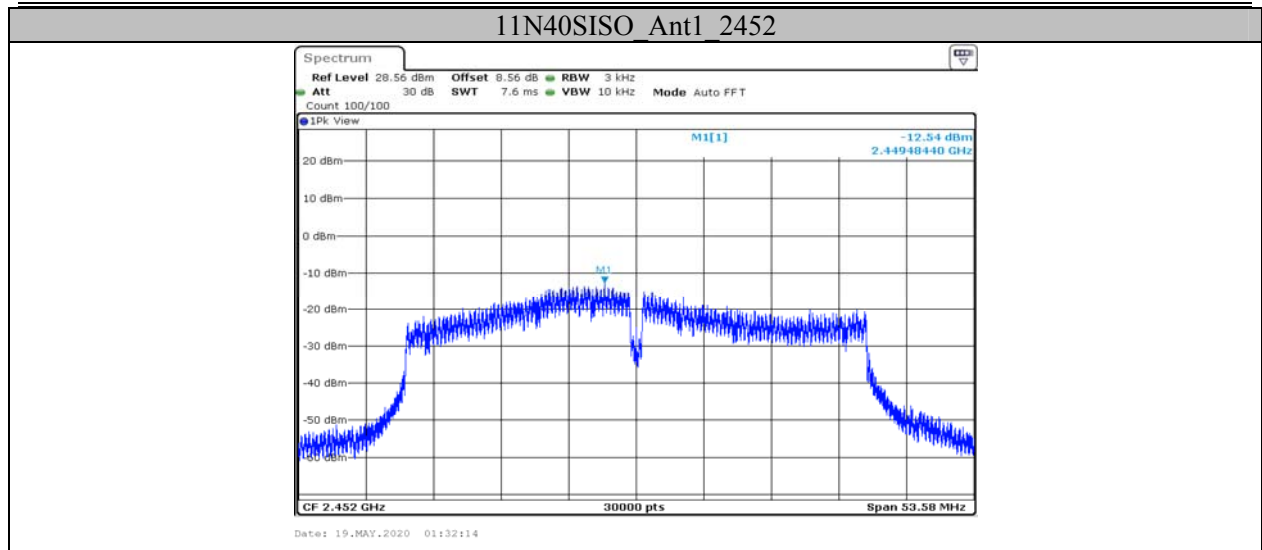


11N40SISO Ant1 2422



11N40SISO Ant1 2437

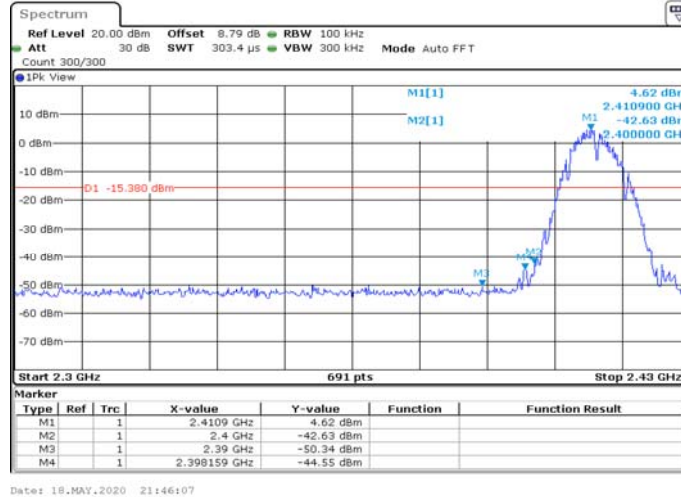




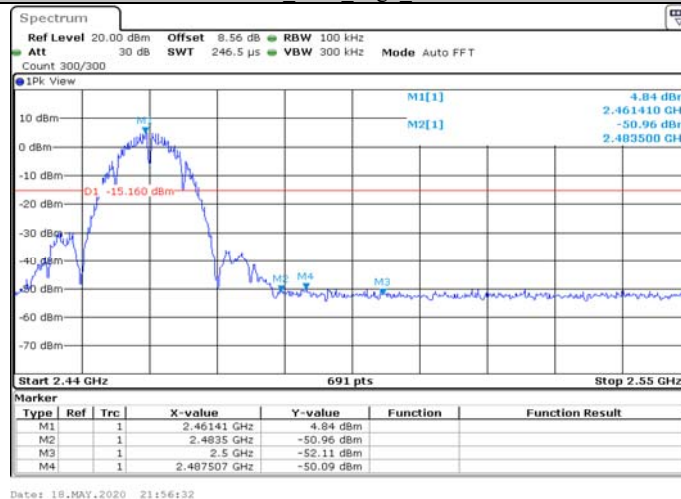
Appendix E: Band edge measurements

Test Graphs

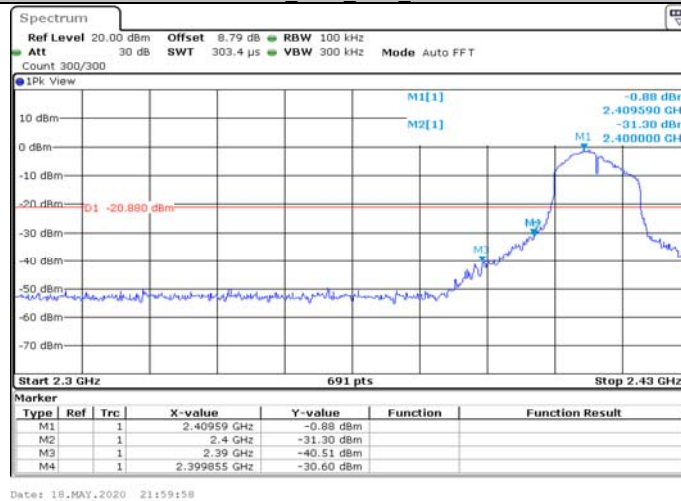
11B Ant1 Low 2412



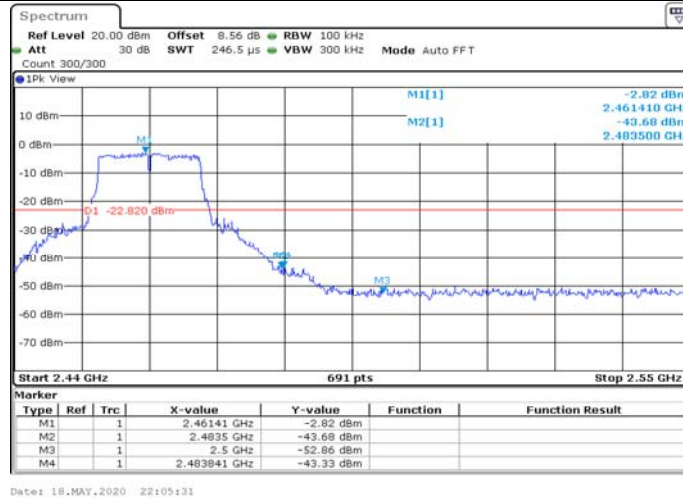
11B Ant1 High 2462



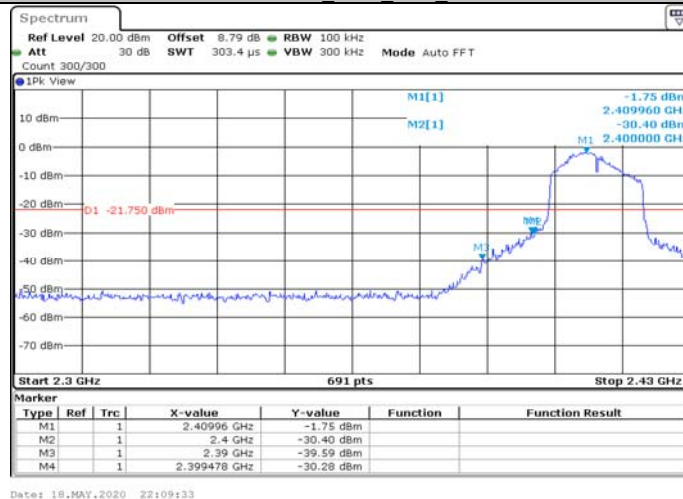
11G Ant1 Low 2412



11G Ant1 High 2462



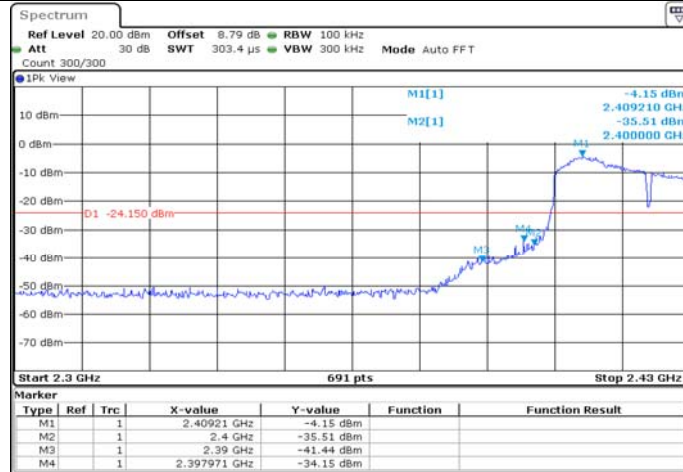
11N20SISO Ant1 Low 2412



11N20SISO Ant1 High 2462

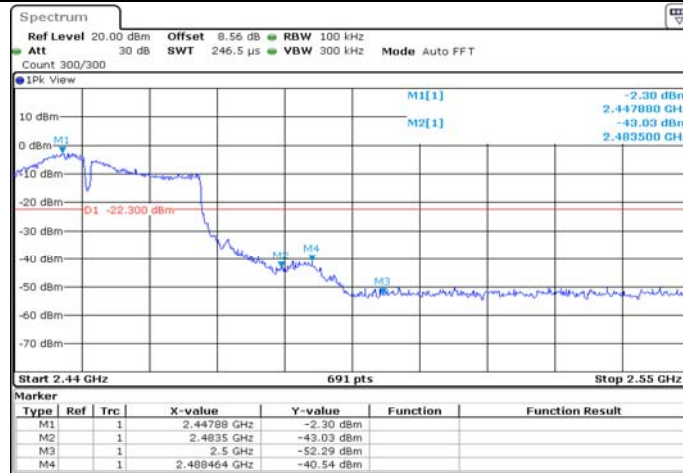


11N40SISO Ant1 Low 2422



Date: 18.MAY.2020 22:28:41

11N40SISO Ant1 High 2452



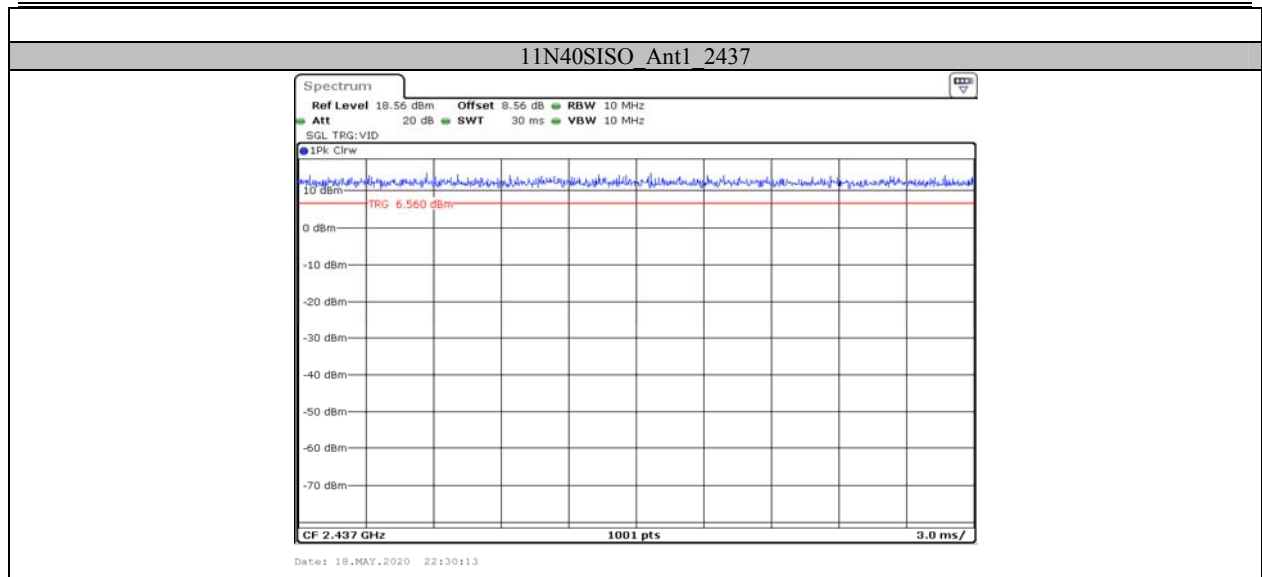
Date: 18.MAY.2020 22:33:26

Appendix F: Duty Cycle**Test Result**

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2437	30.00	30.00	100.00
11G	Ant1	2437	30.00	30.00	100.00
11N20SISO	Ant1	2437	30.00	30.00	100.00
11N40SISO	Ant1	2437	30.00	30.00	100.00

Test Graphs





APPENDIX BLE

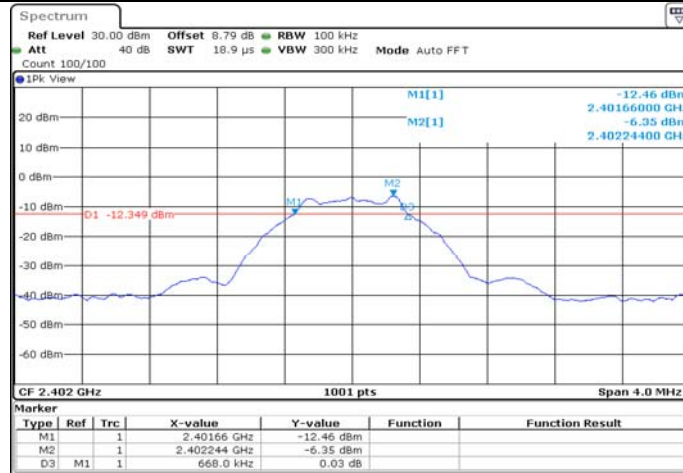
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	0.5	PASS
		2440	0.668	0.5	PASS
		2480	0.672	0.5	PASS
BLE_2M	Ant1	2402	1.164	0.5	PASS
		2440	1.172	0.5	PASS
		2480	1.172	0.5	PASS

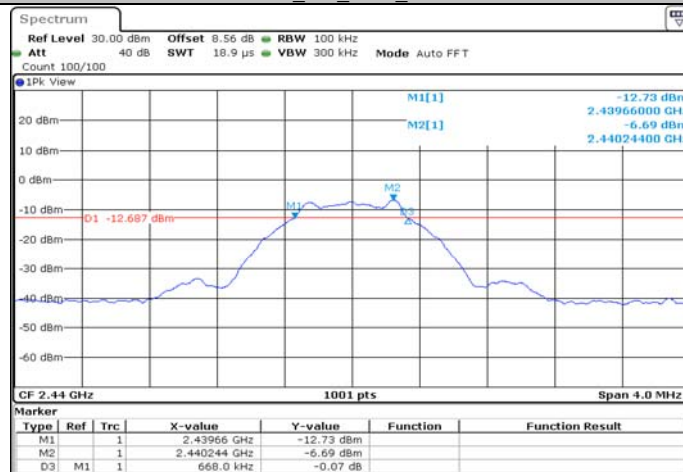
Test Graphs

BLE 1M Ant1_2402



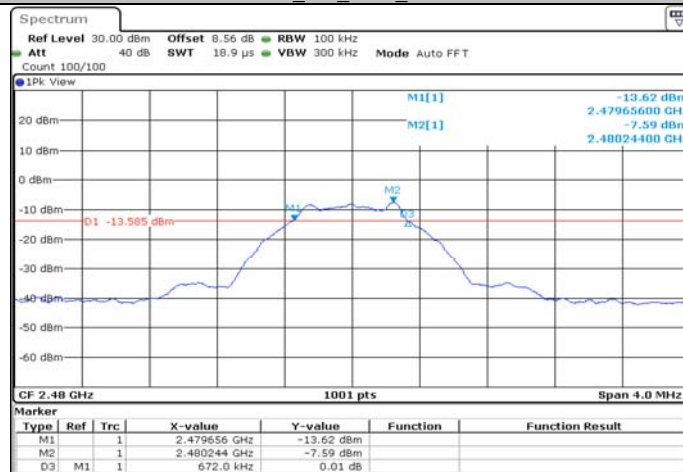
Date: 18.MAY.2020 19:45:13

BLE 1M Ant1_2440



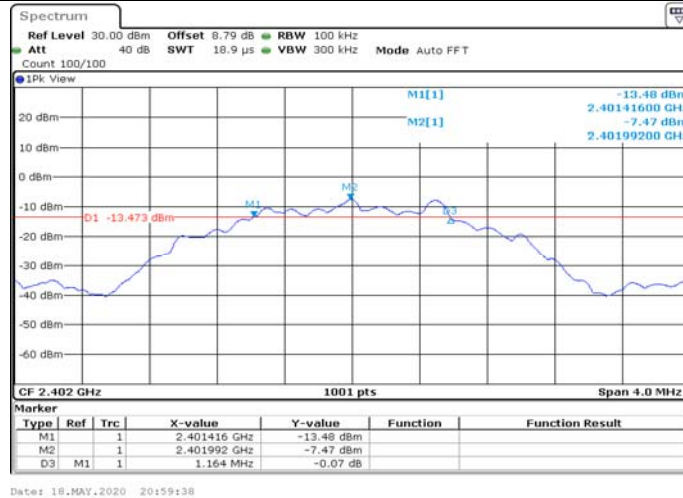
Date: 18.MAY.2020 19:47:16

BLE 1M Ant1_2480

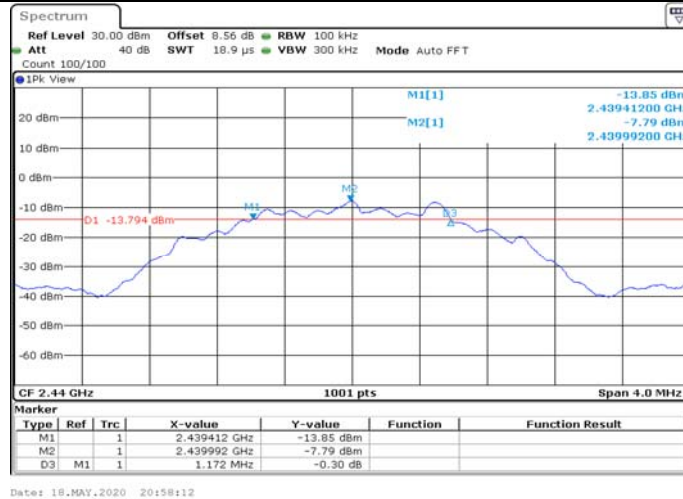


Date: 18.MAY.2020 19:48:39

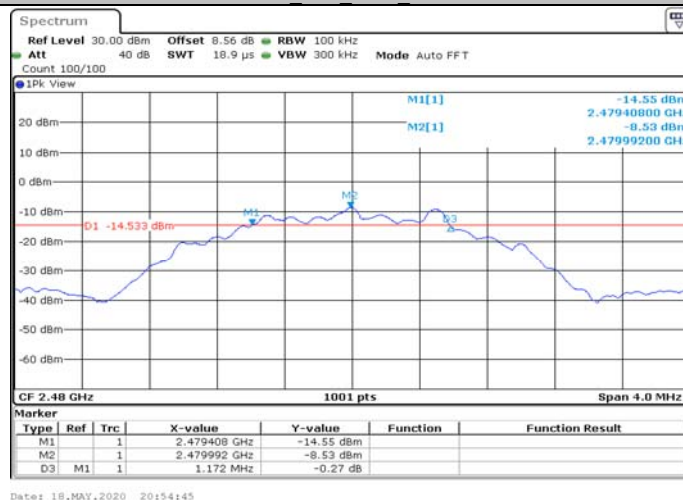
BLE 2M_Ant1_2402



BLE 2M_Ant1_2440



BLE 2M_Ant1_2480



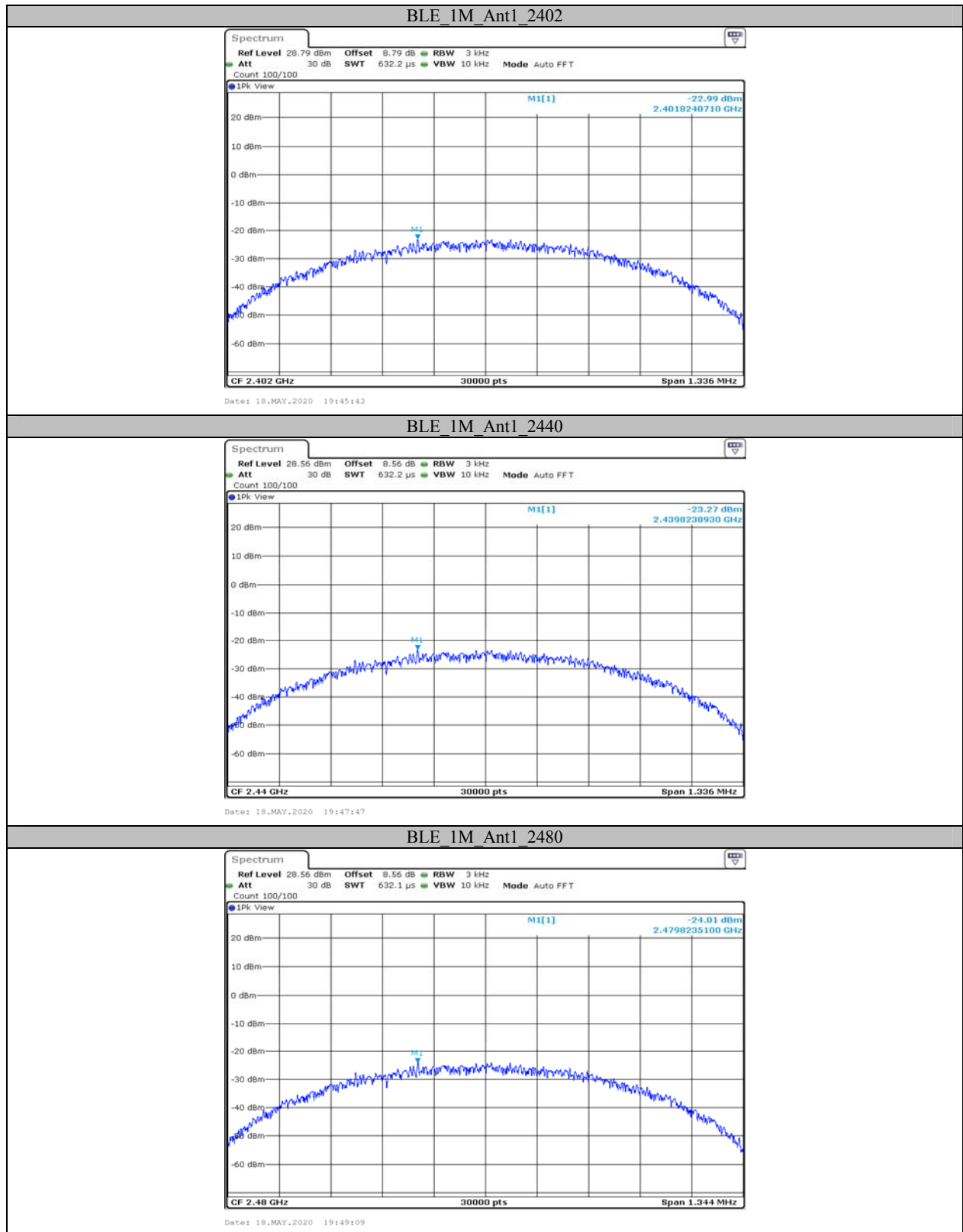
Appendix B: Maximum conducted Peak output power**Test Result**

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-5.92	<=30	PASS
		2440	-5.61	<=30	PASS
		2480	-6.85	<=30	PASS
BLE_2M	Ant1	2402	-6.01	<=30	PASS
		2440	-6.16	<=30	PASS
		2480	-7.13	<=30	PASS

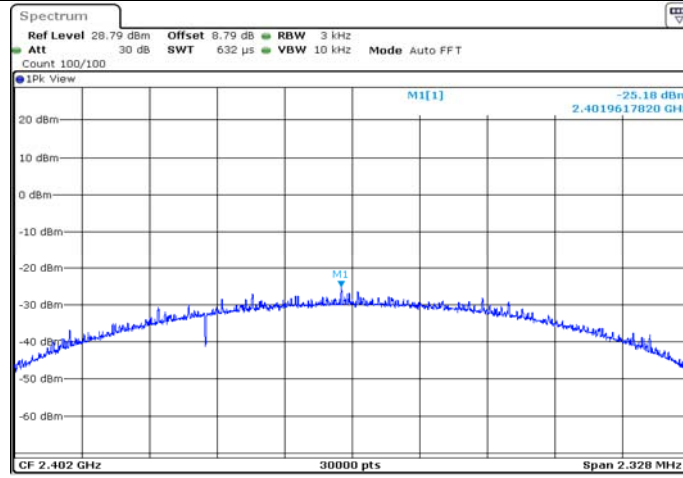
Appendix C: Maximum power spectral density**Test Result**

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-22.99	<=8	PASS
		2440	-23.27	<=8	PASS
		2480	-24.01	<=8	PASS
BLE_2M	Ant1	2402	-25.18	<=8	PASS
		2440	-25.92	<=8	PASS
		2480	-26.64	<=8	PASS

Test Graphs

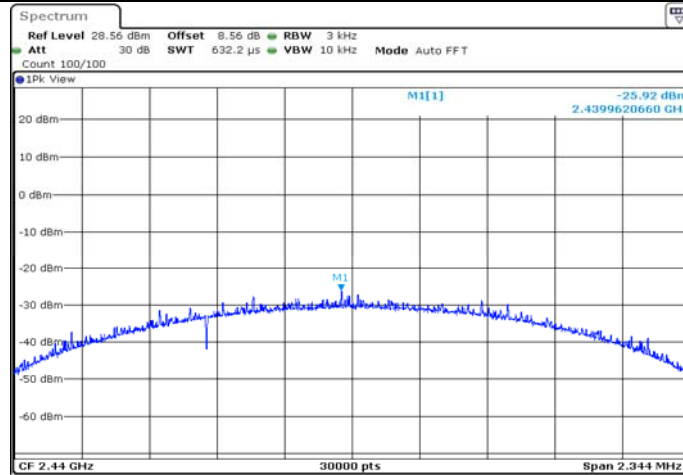


BLE 2M_Ant1 2402



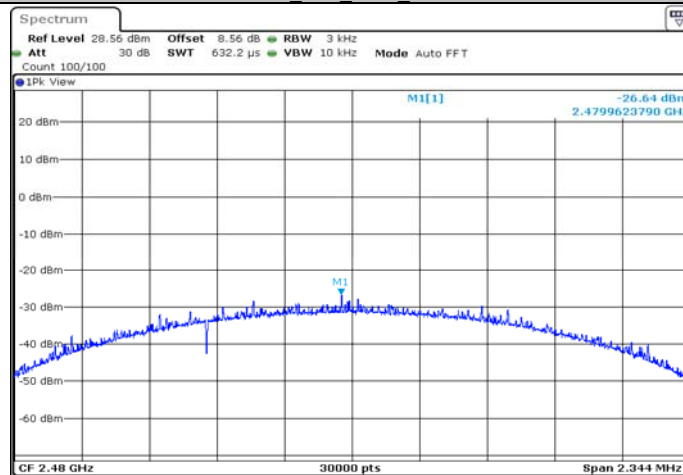
Date: 18.MAY.2020 21:00:08

BLE 2M_Ant1 2440



Date: 18.MAY.2020 20:58:42

BLE 2M_Ant1 2480

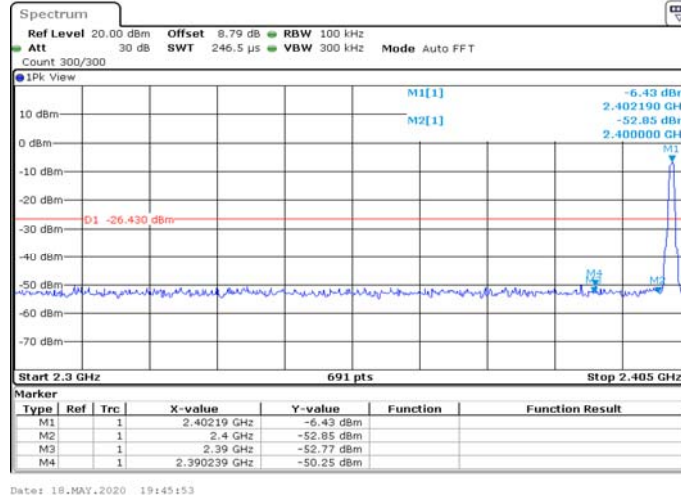


Date: 18.MAY.2020 20:55:15

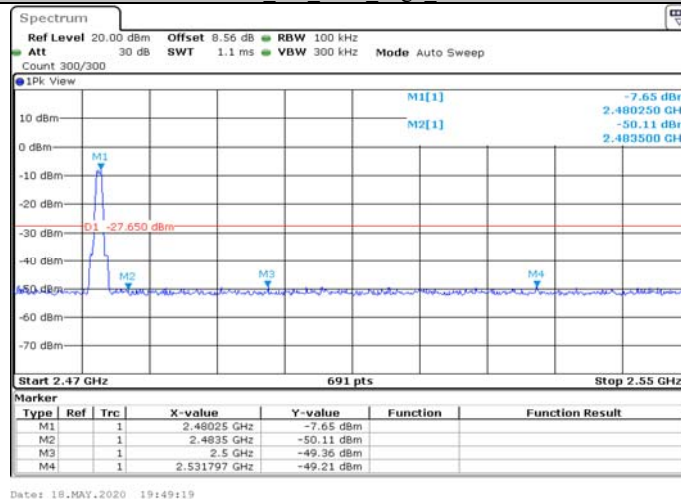
Appendix D: Band edge measurements

Test Graphs

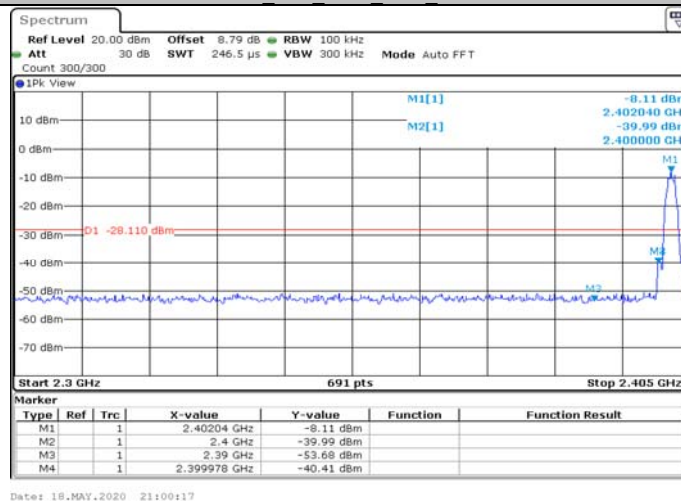
BLE 1M Ant1 Low 2402

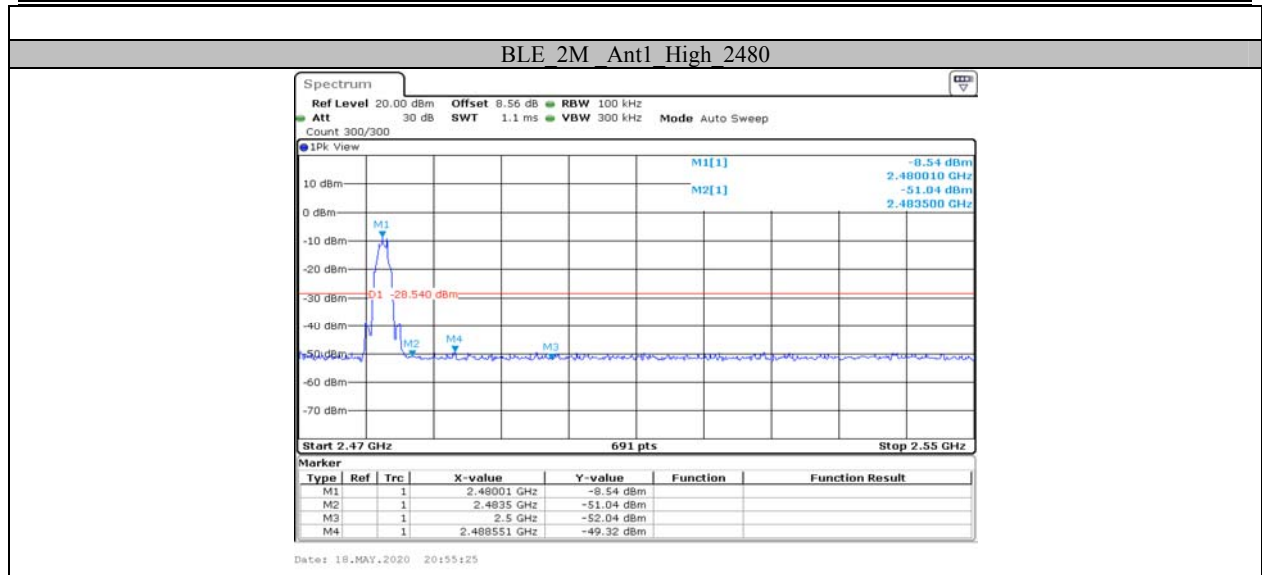


BLE 1M Ant1 High 2480



BLE 2M Ant1 Low 2402

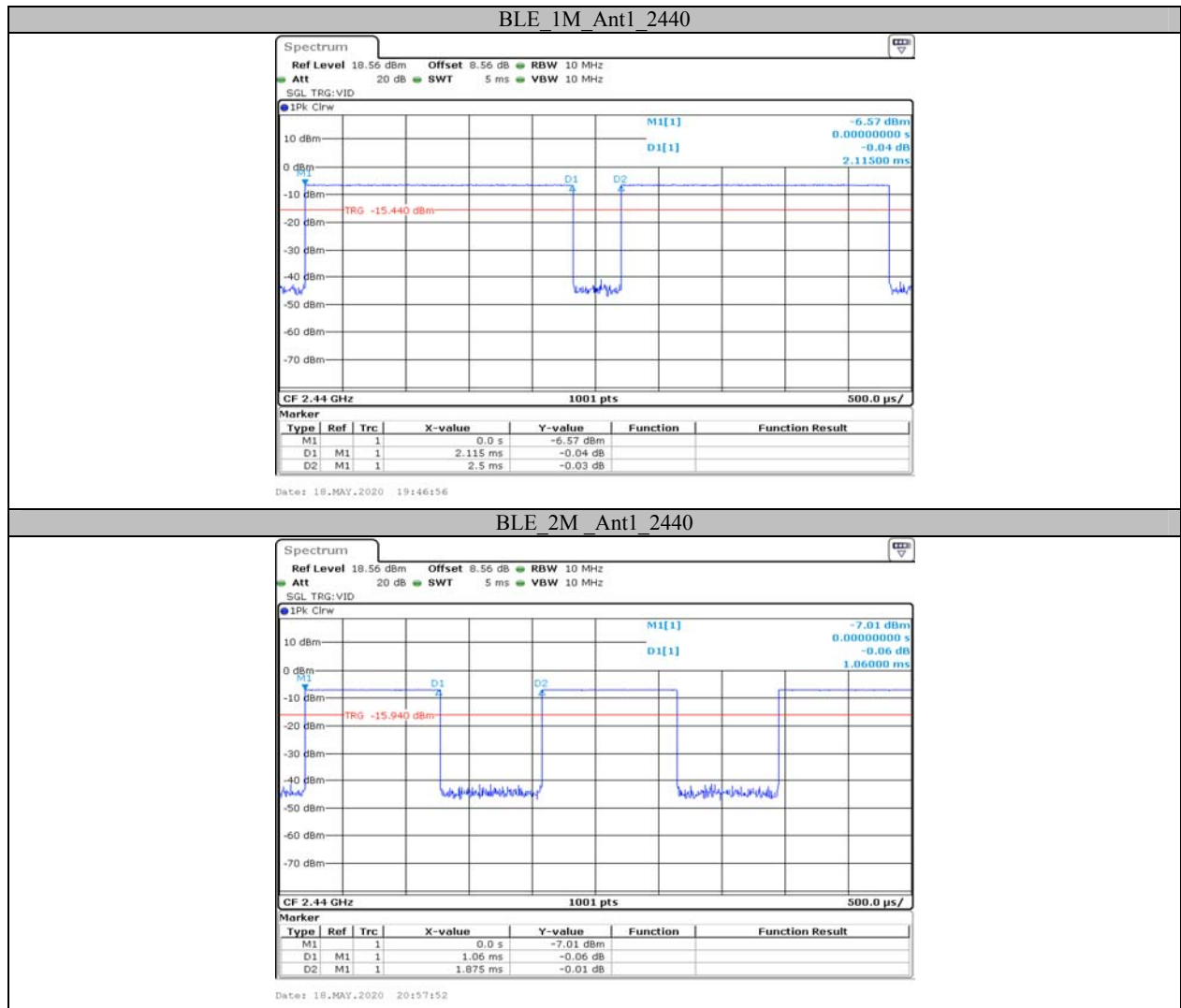




Appendix E: Duty Cycle**Test Result**

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2440	2.11	2.50	84.60
BLE_2M	Ant1	2440	1.06	1.88	56.53

Test Graphs



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