

TEST REPORT

Applicant Name : Bolt Modus Corp
Address : Oficina N.33 Edificio Ofidepositos Central, Calidonia - Distrito Federal, Panama
Report Number : SZNS220428-17186E-RF-00B
FCC ID: 2APW4EPIC3

Test Standard (s)

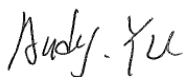
FCC PART 15.247

Sample Description

Product Type: Tablet PC
Model No.: EPIC 3
Multiple Model(s) No.: N/A
Trade Mark: yezz
Date Received: 2022/04/28
Report Date: 2022/07/04

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

Prepared and Checked By:

Andy Yu
EMC Engineer

Approved By:

Robert 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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Shenzhen Accurate Technology Co., Ltd.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	BLE 1M/2M: 2402-2480MHz Wi-Fi: 2412-2472MHz
Maximum Conducted Peak Output Power	BLE: 7.10dBm Wi-Fi: 8.28dBm(802.11b), 13.10dBm(802.11g) 13.12dBm(802.11n20), 13.05dBm(802.11n40)
Modulation Technique	BLE: GFSK Wi-Fi: DSSS, OFDM
Antenna Specification*	2 dBi (provided by the applicant)
Voltage Range	DC 3.8V from battery or DC 5.0V from adapter
Sample serial number	SZNS220428-17186E-RF-S1 for Conducted and Radiated Emissions SZNS220428-17186E-RF-S2 for RF Conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition
Adapter information	Model: CEPIC3 Input: AC 100-240V, 50/60Hz Output: DC 5.0V, 1.5A

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.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		5%
RF Frequency		0.082×10^{-7}
RF output power, conducted		0.73dB
Unwanted Emission, conducted		1.6dB
AC Power Lines Conducted Emissions		2.72dB
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.

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

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

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

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

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

“adb”* exercise software was used, power level as below:

Item	Mode	Data Rate	Power Level*		
			Low	Middle	High
Wi-Fi	802.11b	1Mbps	20	20	20
	802.11g	6Mbps	25	25	25
	802.11n-HT20	MCS0	25	25	25
	802.11n-HT40	MCS0	25	25	25
BLE	BLE-1M	1Mbps	Default	Default	Default

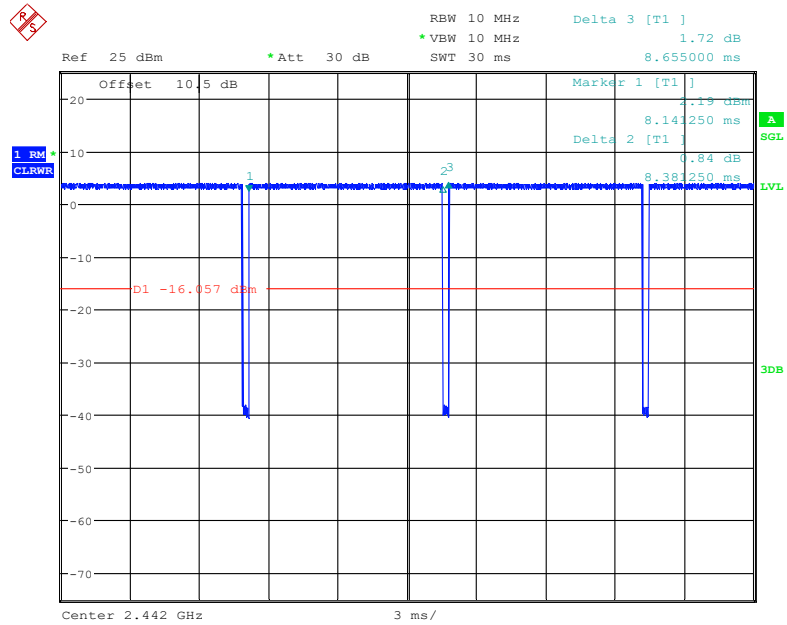
The worse-case data rates are determined to be as follows for each mode based upon investigations by measuring the output power and PSD across all data rated bandwidths, and modulations.

The software and power level was provided by applicant.

Duty cycle

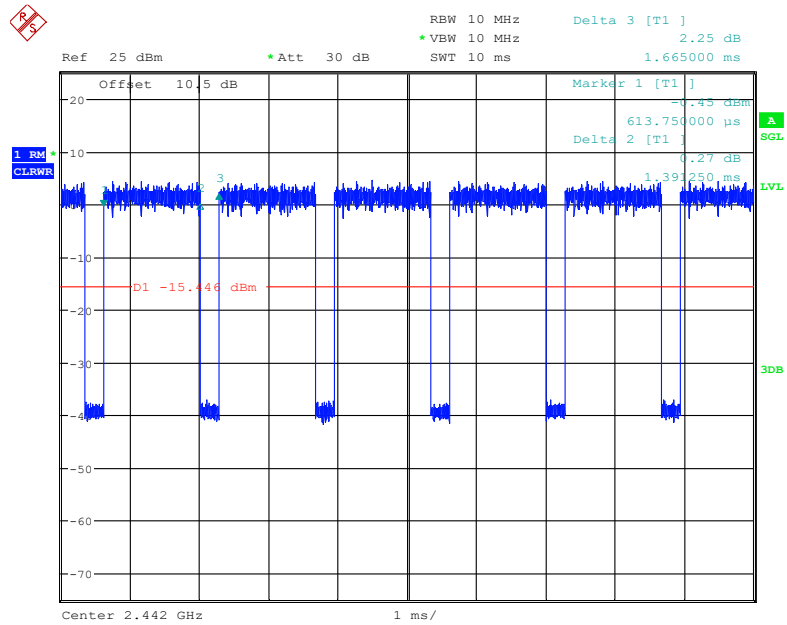
Mode	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	1/T (kHz)
802.11b	8.381	8.655	96.83	0.12
802.11g	1.391	1.665	83.54	0.72
802.11n-HT20	5.081	5.355	94.88	0.20
802.11n-HT40	2.468	2.741	90.04	0.41
BLE 1M	0.388	0.623	62.28	2.58

802.11b mode



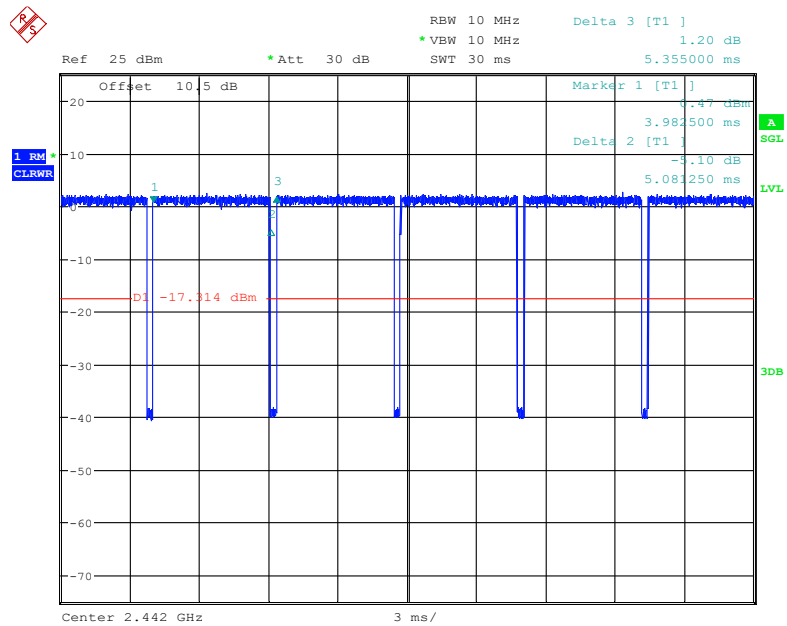
Date: 29.JUN.2022 09:51:37

802.11g mode, 2442 MHz



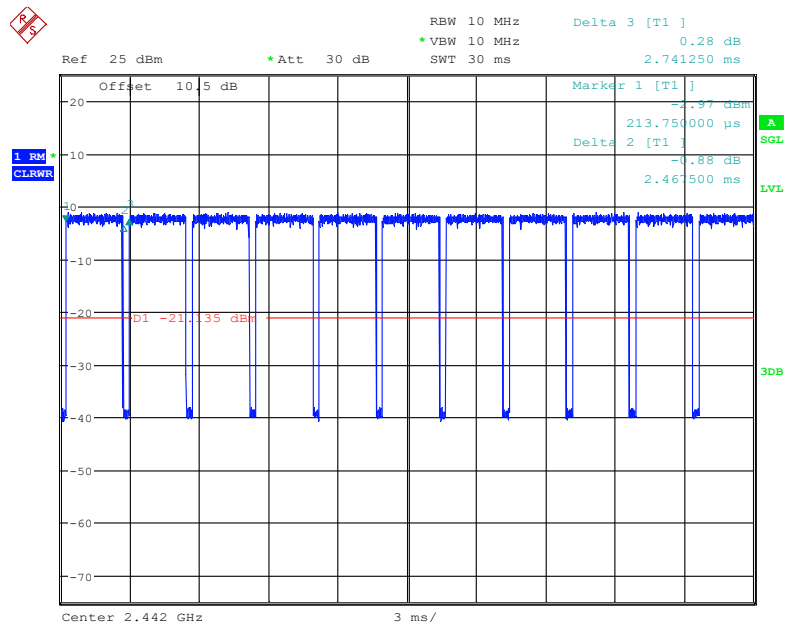
Date: 29.JUN.2022 10:10:17

802.11n-HT20 Mode, 2442 MHz



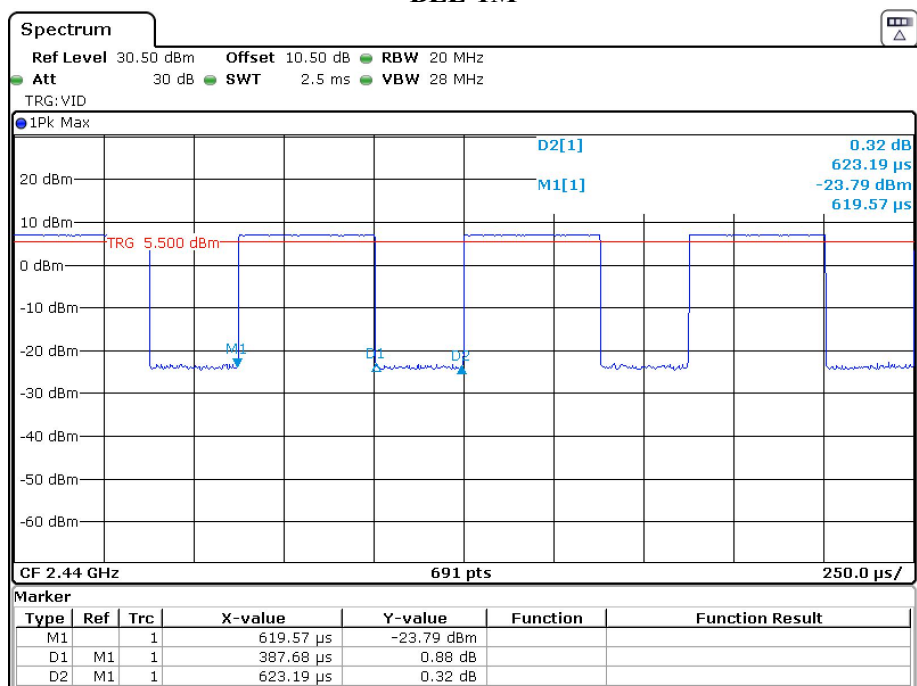
Date: 29.JUN.2022 10:21:50

802.11n-HT40 Mode, 2442 MHz



Date: 29.JUN.2022 10:33:48

BLE-1M



Date: 17.MAY.2022 18:03:59

Support Equipment List and Details

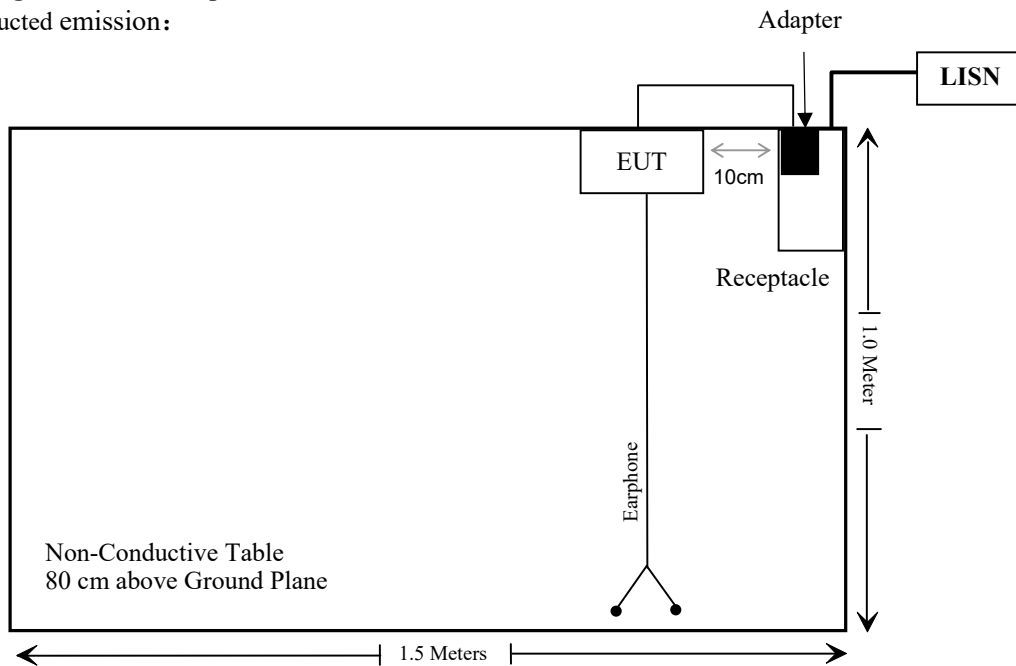
Manufacturer	Description	Model	Serial Number
Unknown	Earphone	Unknown	Unknown

External I/O Cable

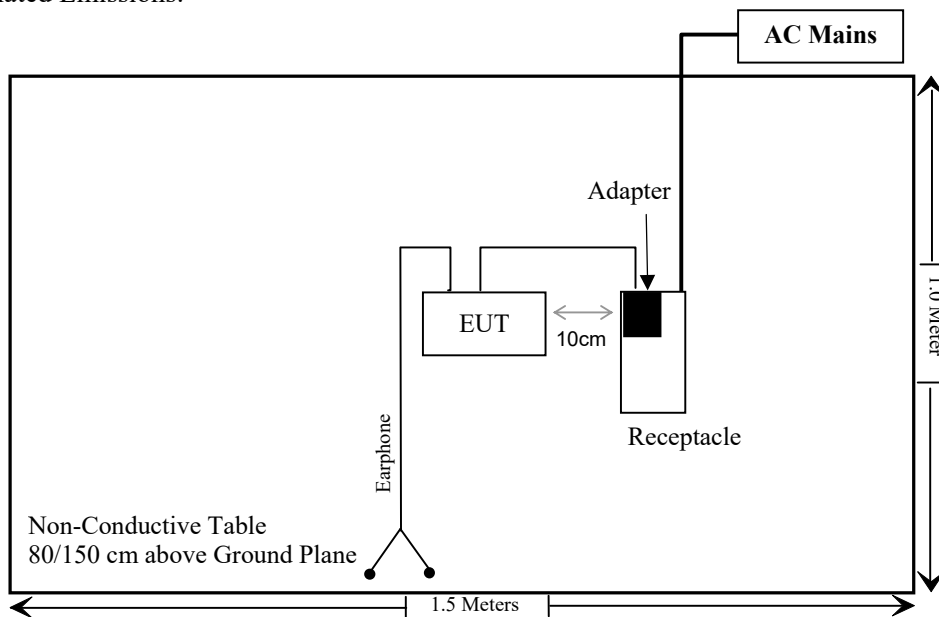
Cable Description	Length (m)	From/Port	To
Un-shielding Detachable USB Cable	1.0	EUT	Adapter

Block Diagram of Test Setup

For conducted emission:



For Radiated Emissions:



SUMMARY OF TEST RESULTS

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

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
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)					
Radiated Emissions Test					
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-18405536-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
Radiated Emission Test Software: e3 19821b (V9)					
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
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2021/12/14	2022/12/13

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde&Schwarz	Spectrum Analyzer	FSV-40	101948	2021/12/13	2022/12/12
WEINSCHTEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13
Rohde & Schwarz	Open Switch and Control Unit	OSP120 + OSP-B157	101244 + 100866	2021/12/13	2022/12/12
Unknown	RF Cable	Unknown	1	Each time	

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

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

Applicable Standard

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

Measurement Result

Please refer to SAR test report: SZNS220428-17186E-SA.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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

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

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

Antenna Connector Construction

The EUT has one internal antenna arrangement, which was permanently attached and the antenna gain is 2dBi, fulfill the requirement of this section. Please refer to the EUT photos.

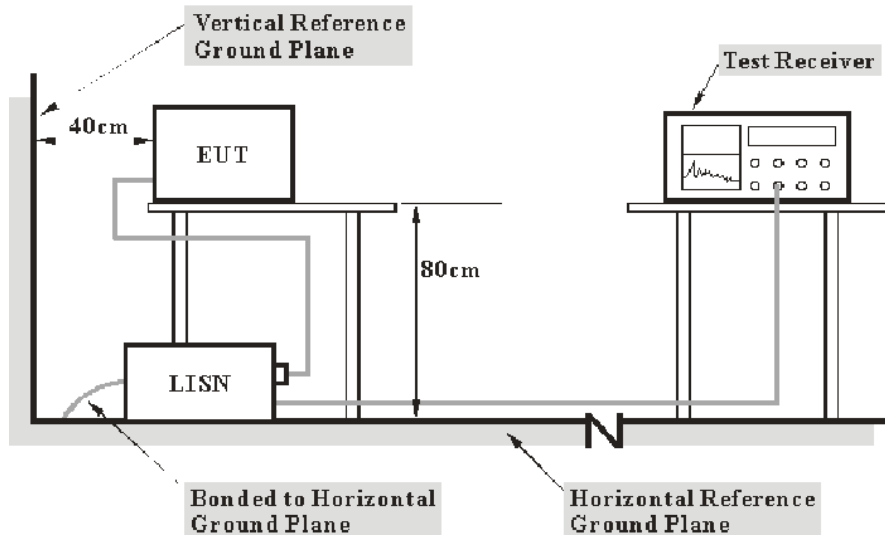
Result: Compliance.

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.

Transd Factor & Margin Calculation

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

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

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

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

$$\text{Level} = \text{reading level} + \text{Transd Factor}$$

Test Data

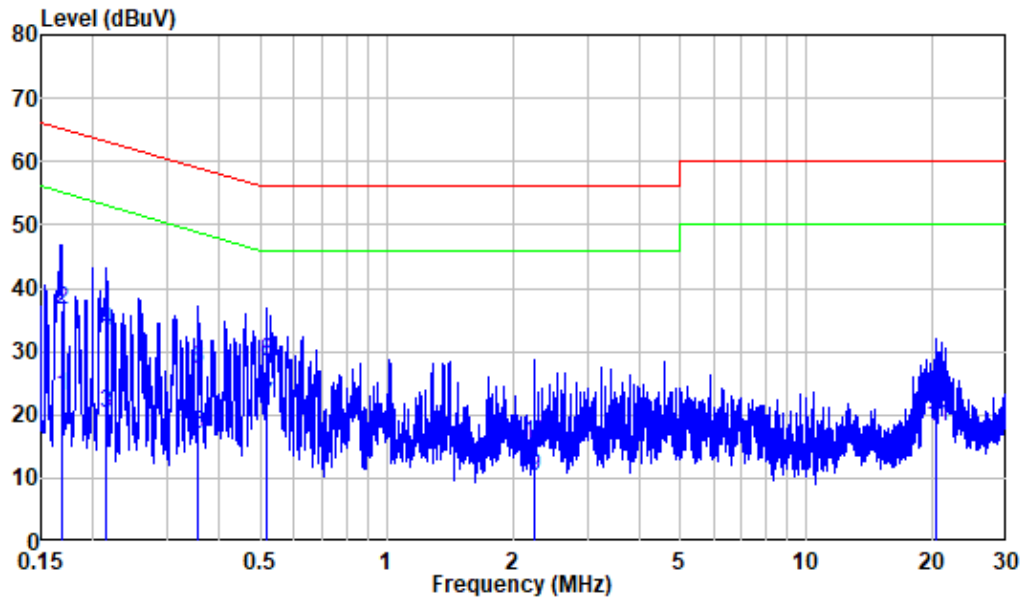
Environmental Conditions

Temperature:	23 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Jason Liu on 2022-05-23.

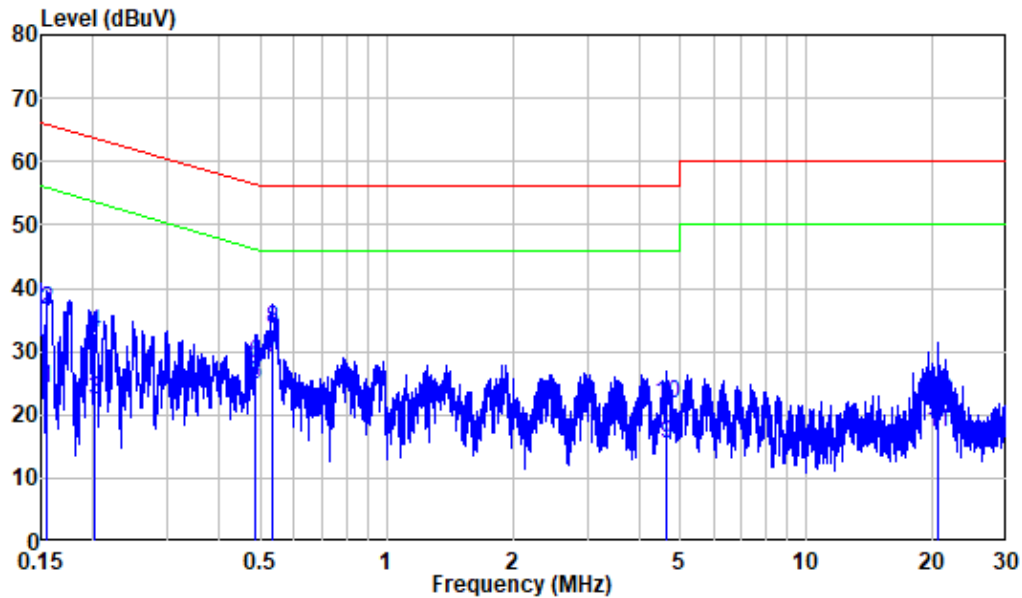
EUT operation mode: Transmitting (the worst case is 802.11n20 Mode, low channel)

AC 120V/60 Hz, Line



Site : Shielding Room
 Condition: Line
 Job No. : SZNS220428-17186E-RF
 Mode : 2.4G WIFI
 Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.168	9.80	13.10	22.90	55.04	-32.14	Average
2	0.168	9.80	26.74	36.54	65.04	-28.50	QP
3	0.215	9.80	10.49	20.29	53.02	-32.73	Average
4	0.215	9.80	23.53	33.33	63.02	-29.69	QP
5	0.356	9.80	7.25	17.05	48.83	-31.78	Average
6	0.356	9.80	17.47	27.27	58.83	-31.56	QP
7	0.518	9.81	11.56	21.37	46.00	-24.63	Average
8	0.518	9.81	18.69	28.50	56.00	-27.50	QP
9	2.250	9.82	0.52	10.34	46.00	-35.66	Average
10	2.250	9.82	5.68	15.50	56.00	-40.50	QP
11	20.404	10.00	8.21	18.21	50.00	-31.79	Average
12	20.404	10.00	12.42	22.42	60.00	-37.58	QP

AC 120V/60 Hz, Neutral

Site : Shielding Room
 Condition: Neutral
 Job No. : SZNS220428-17186E-RF
 Mode : 2.4G WIFI
 Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.155	9.80	14.50	24.30	55.71	-31.41	Average
2	0.155	9.80	26.70	36.50	65.71	-29.21	QP
3	0.202	9.80	12.67	22.47	53.52	-31.05	Average
4	0.202	9.80	23.14	32.94	63.52	-30.58	QP
5	0.488	9.80	14.87	24.67	46.20	-21.53	Average
6	0.488	9.80	18.17	27.97	56.20	-28.23	QP
7	0.534	9.81	19.18	28.99	46.00	-17.01	Average
8	0.534	9.81	23.62	33.43	56.00	-22.57	QP
9	4.628	9.88	5.62	15.50	46.00	-30.50	Average
10	4.628	9.88	11.89	21.77	56.00	-34.23	QP
11	20.526	10.11	7.14	17.25	50.00	-32.75	Average
12	20.526	10.11	11.99	22.10	60.00	-37.90	QP

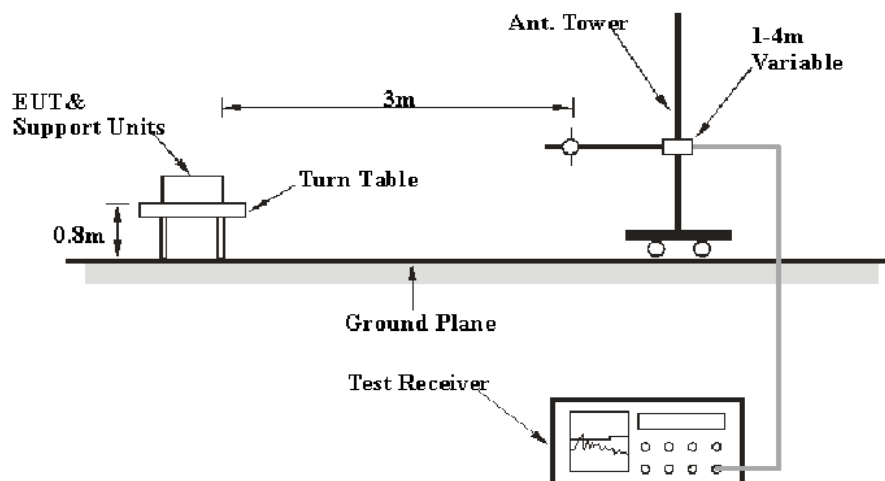
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

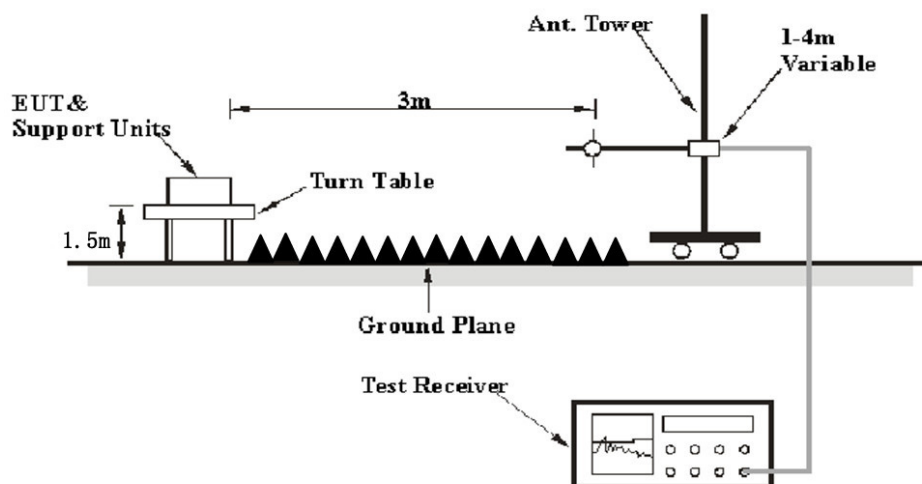
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1 GHz:



Above 1GHz:



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

EMI Test Receiver & Spectrum Analyzer Setup

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

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

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

Note 2: when duty cycle is less than 98%

Test Procedure

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

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

Factor & Margin Calculation

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

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

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

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

Test Data

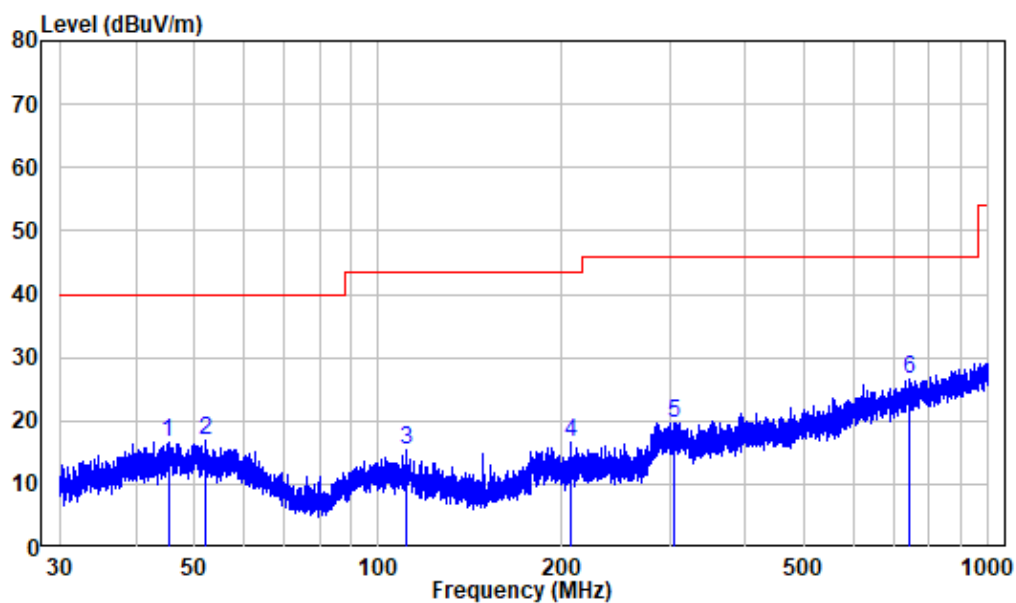
Environmental Conditions

Temperature:	25.1~30 °C
Relative Humidity:	52~65 %
ATM Pressure:	101.0 kPa

The testing was performed by Leo Li on 2022-05-24 for below 1GHz, Jeff Jiang and Level Li from 2022-05-16 to 2022-07-04 for above 1GHz
EUT operation mode: Transmitting(Pre-scan in the X, Y and Z axes of orientation, the worst case X-axes orientation was recorded)

30MHz-1GHz: (the worst case is 802.1n20Mode, low channel)

Horizontal



Site : chamber

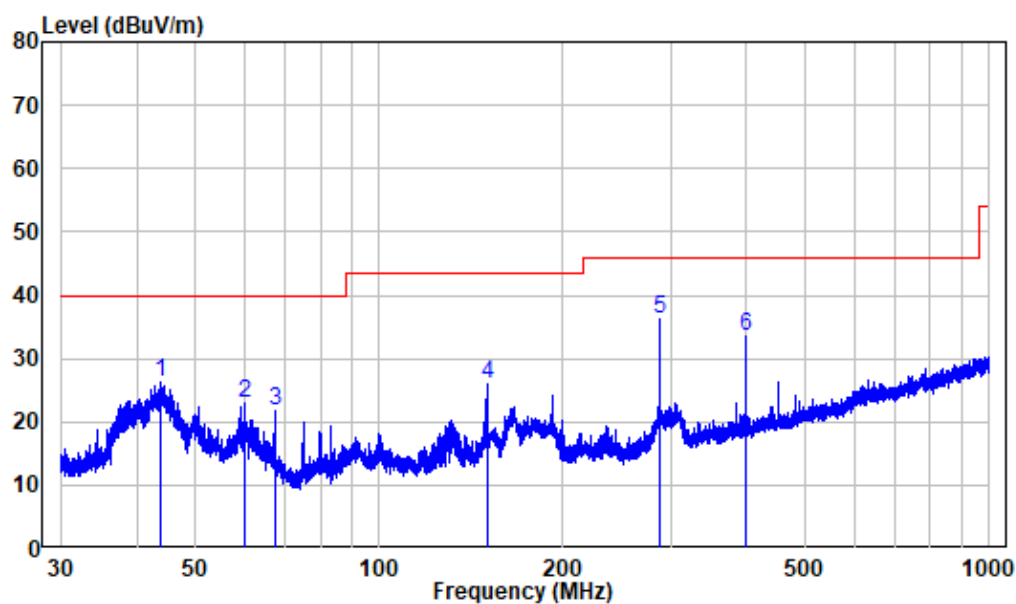
Condition: 3m HORIZONTAL

Job No. : SZNS220428-17186E-RF

Test Mode: Charging+Transmitting

	Freq	Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	45.217	-9.95	26.61	16.66	40.00	-23.34	Peak
2	52.139	-10.00	27.01	17.01	40.00	-22.99	Peak
3	111.396	-12.15	27.67	15.52	43.50	-27.98	Peak
4	207.032	-11.84	28.37	16.53	43.50	-26.97	Peak
5	305.680	-9.04	28.76	19.72	46.00	-26.28	Peak
6	740.309	-0.80	27.33	26.53	46.00	-19.47	Peak

Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : SZNS220428-17186E-RF
 Test Mode: Charging+Transmitting

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	43.812	-9.91	36.11	26.20	40.00	-13.80	Peak
2	60.095	-10.66	33.61	22.95	40.00	-17.05	Peak
3	67.291	-13.49	35.33	21.84	40.00	-18.16	Peak
4	150.011	-15.27	41.31	26.04	43.50	-17.46	Peak
5	287.990	-9.36	45.68	36.32	46.00	-9.68	Peak
6	400.081	-6.73	40.33	33.60	46.00	-12.40	Peak

1-25 GHz:**BLE:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/AV		Height (m)	Polar (H/V)				
BLE 1M, Low Channel									
2310	68.44	PK	164	1.2	H	-7.24	61.20	74	-12.80
2310	55.45	AV	164	1.2	H	-7.24	48.21	54	-5.79
2310	67.90	PK	4	2.1	V	-7.24	60.66	74	-13.34
2310	55.42	AV	4	2.1	V	-7.24	48.18	54	-5.82
2390	67.99	PK	225	1.6	H	-7.22	60.77	74	-13.23
2390	55.00	AV	225	1.6	H	-7.22	47.78	54	-6.22
2390	68.62	PK	62	1.6	V	-7.22	61.40	74	-12.60
2390	54.98	AV	62	1.6	V	-7.22	47.76	54	-6.24
4804	52.76	PK	342	2.3	H	-3.51	49.25	74	-24.75
4804	52.95	PK	168	1.6	V	-3.51	49.44	74	-24.56
BLE 1M, Middle Channel									
4880	55.57	PK	93	2.4	H	-3.38	52.19	74	-21.81
4880	55.60	PK	225	1.3	V	-3.38	52.22	74	-21.78
BLE 1M, High Channel									
2483.5	68.84	PK	212	1.4	H	-7.20	61.64	74	-12.36
2483.5	56.26	AV	212	1.4	H	-7.20	49.06	54	-4.94
2483.5	69.84	PK	20	1.9	V	-7.20	62.64	74	-11.36
2483.5	56.34	AV	20	1.9	V	-7.20	49.14	54	-4.86
2500	68.75	PK	91	2	H	-7.18	61.57	74	-12.43
2500	55.70	AV	91	2	H	-7.18	48.52	54	-5.48
2500	69.07	PK	12	2.3	V	-7.18	61.89	74	-12.11
2500	55.74	AV	12	2.3	V	-7.18	48.56	54	-5.44
4960	54.27	PK	187	1.1	H	-3.01	51.26	74	-22.74
4960	54.38	PK	128	2.4	V	-3.01	51.37	74	-22.63

Wi-Fi:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/AV		Height (m)	Polar (H/V)				
802.11b, Low Channel									
2310	68.16	PK	261	1.3	H	-7.24	60.92	74	-13.08
2310	53.89	AV	261	1.3	H	-7.24	46.65	54	-7.35
2310	68.33	PK	187	1.5	V	-7.24	61.09	74	-12.91
2310	53.92	AV	187	1.5	V	-7.24	46.68	54	-7.32
2390	69.55	PK	266	2.3	H	-7.22	62.33	74	-11.67
2390	54.26	AV	266	2.3	H	-7.22	47.04	54	-6.96
2390	69.81	PK	34	2	V	-7.22	62.59	74	-11.41
2390	54.30	AV	34	2	V	-7.22	47.08	54	-6.92
4824	60.06	PK	92	1.8	H	-3.52	56.54	74	-17.46
4824	56.55	AV	92	1.8	H	-3.52	53.03	54	-0.97
4824	59.97	PK	105	1.3	V	-3.52	56.45	74	-17.55
4824	53.91	AV	105	1.3	V	-3.52	50.39	54	-3.61
802.11b, Middle Channel									
4884	58.48	PK	175	1.5	H	-3.36	55.12	74	-18.88
4884	52.45	AV	175	1.5	H	-3.36	49.09	54	-4.91
4884	56.23	PK	29	2.1	V	-3.36	52.87	74	-21.13
802.11b, High Channel									
2483.5	69.85	PK	229	1.2	H	-7.20	62.65	74	-11.35
2483.5	55.13	AV	229	1.2	H	-7.20	47.93	54	-6.07
2483.5	69.86	PK	19	2.4	V	-7.20	62.66	74	-11.34
2483.5	54.92	AV	19	2.4	V	-7.20	47.72	54	-6.28
2500	68.62	PK	252	2.3	H	-7.18	61.44	74	-12.56
2500	55.10	AV	252	2.3	H	-7.18	47.92	54	-6.08
2500	68.78	PK	257	1.7	V	-7.18	61.6	74	-12.40
2500	54.87	AV	257	1.7	V	-7.18	47.69	54	-6.31
4944	56.89	PK	202	2.4	H	-3.07	53.82	74	-20.18
4944	54.47	PK	181	1.4	V	-3.07	51.40	74	-22.60

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/AV		Height (m)	Polar (H/V)				
802.11G, Low Channel									
2310	68.04	PK	83	1.9	H	-7.24	60.80	74	-13.20
2310	53.81	AV	83	1.9	H	-7.24	46.57	54	-7.43
2310	68.17	PK	7	1.7	V	-7.24	60.93	74	-13.07
2310	53.72	AV	7	1.7	V	-7.24	46.48	54	-7.52
2390	72.89	PK	281	1.4	H	-7.22	65.67	74	-8.33
2390	54.57	AV	281	1.4	H	-7.22	47.35	54	-6.65
2390	70.73	PK	12	1.2	V	-7.22	63.51	74	-10.49
2390	54.65	AV	12	1.2	V	-7.22	47.43	54	-6.57
4824	67.21	PK	129	2.3	H	-3.52	63.69	74	-10.31
4824	55.88	AV	129	2.3	H	-3.52	52.36	54	-1.64
4824	64.03	PK	197	1.9	V	-3.52	60.51	74	-13.49
4824	52.79	AV	197	1.9	V	-3.52	49.27	54	-4.73
802.11G, Middle Channel									
4884	63.44	PK	263	1.3	H	-3.36	60.08	74	-13.92
4884	50.09	AV	263	1.3	H	-3.36	46.73	54	-7.27
4884	59.15	PK	124	1	V	-3.36	55.79	74	-18.21
4884	46.18	AV	124	1	V	-3.36	42.82	54	-11.18
802.11G, High Channel									
2483.5	75.49	PK	111	1.1	H	-7.20	68.29	74	-5.71
2483.5	57.51	AV	111	1.1	H	-7.20	50.31	54	-3.69
2483.5	74.37	PK	252	1.9	V	-7.20	67.17	74	-6.83
2483.5	56.94	AV	252	1.9	V	-7.20	49.74	54	-4.26
2500	68.91	PK	260	1.5	H	-7.18	61.73	74	-12.27
2500	55.96	AV	260	1.5	H	-7.18	48.78	54	-5.22
2500	68.54	PK	52	1.6	V	-7.18	61.36	74	-12.64
2500	55.90	AV	52	1.6	V	-7.18	48.72	54	-5.28
4944	61.93	PK	37	2.2	H	-3.07	58.86	74	-15.14
4944	49.02	AV	37	2.2	H	-3.07	45.95	54	-8.05
4944	57.87	PK	159	1.2	V	-3.07	54.80	74	-19.20
4944	44.93	AV	159	1.2	V	-3.07	41.86	54	-12.14

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/AV		Height (m)	Polar (H/V)				
802.11N20, Low Channel									
2310	67.93	PK	103	1.7	H	-7.24	60.69	74	-13.31
2310	53.70	AV	103	1.7	H	-7.24	46.46	54	-7.54
2310	68.22	PK	308	1.1	V	-7.24	60.98	74	-13.02
2310	53.65	AV	308	1.1	V	-7.24	46.41	54	-7.59
2390	73.60	PK	71	1.8	H	-7.22	66.38	74	-7.62
2390	54.75	AV	71	1.8	H	-7.22	47.53	54	-6.47
2390	71.90	PK	66	1.1	V	-7.22	64.68	74	-9.32
2390	54.82	AV	66	1.1	V	-7.22	47.60	54	-6.40
4824	64.82	PK	339	1.3	H	-3.52	61.30	74	-12.70
4824	50.85	AV	339	1.3	H	-3.52	47.33	54	-6.67
4824	59.07	PK	127	1.4	V	-3.52	55.55	74	-18.45
4824	45.90	AV	127	1.4	V	-3.52	42.38	54	-11.62
802.11N20, Middle Channel									
4884	63.10	PK	222	1.4	H	-3.36	59.74	74	-14.26
4884	49.09	AV	222	1.4	H	-3.36	45.73	54	-8.27
4884	58.42	PK	132	1.9	V	-3.36	55.06	74	-18.94
4884	45.16	AV	132	1.9	V	-3.36	41.8	54	-12.20
802.11N20, High Channel									
2483.5	77.87	PK	303	2.2	H	-7.20	70.67	74	-3.33
2483.5	58.03	AV	303	2.2	H	-7.20	50.83	54	-3.17
2483.5	75.53	PK	23	1.3	V	-7.20	68.33	74	-5.67
2483.5	57.43	AV	23	1.3	V	-7.20	50.23	54	-3.77
2500	68.72	PK	20	2.4	H	-7.18	61.54	74	-12.46
2500	55.80	AV	20	2.4	H	-7.18	48.62	54	-5.38
2500	68.52	PK	292	2.1	V	-7.18	61.34	74	-12.66
2500	55.99	AV	292	2.1	V	-7.18	48.81	54	-5.19
4944	63.12	PK	227	2.2	H	-3.07	60.05	74	-13.95
4944	48.87	AV	227	2.2	H	-3.07	45.80	54	-8.20
4944	57.92	PK	307	1.6	V	-3.07	54.85	74	-19.15
4944	45.90	AV	307	1.6	V	-3.07	42.83	54	-11.17

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/AV		Height (m)	Polar (H/V)				
802.11N40, Low Channel									
2310	67.98	PK	216	1.8	H	-7.24	60.74	74	-13.26
2310	53.66	AV	216	1.8	H	-7.24	46.42	54	-7.58
2310	68.50	PK	69	1.5	V	-7.24	61.26	74	-12.74
2310	53.50	AV	69	1.5	V	-7.24	46.26	54	-7.74
2390	73.18	PK	239	1.6	H	-7.22	65.96	74	-8.04
2390	54.75	AV	239	1.6	H	-7.22	47.53	54	-6.47
2390	71.03	PK	356	1.9	V	-7.22	63.81	74	-10.19
2390	54.66	AV	356	1.9	V	-7.22	47.44	54	-6.56
4844	62.76	PK	314	1.5	H	-3.54	59.22	74	-14.78
4844	49.97	AV	314	1.5	H	-3.54	46.43	54	-7.57
4844	60.71	PK	38	1.8	V	-3.54	57.17	74	-16.83
4844	47.80	AV	38	1.8	V	-3.54	44.26	54	-9.74
802.11N40, Middle Channel									
4884	61.01	PK	81	1.6	H	-3.36	57.65	74	-16.35
4884	48.29	AV	81	1.6	H	-3.36	44.93	54	-9.07
4884	59.31	PK	149	1.3	V	-3.36	55.95	74	-18.05
4884	45.26	AV	149	1.3	V	-3.36	41.9	54	-12.10
802.11N40, High Channel									
2483.5	77.67	PK	333	2.4	H	-7.20	70.47	74	-3.53
2483.5	57.81	AV	333	2.4	H	-7.20	50.61	54	-3.39
2483.5	76.14	PK	328	1.8	V	-7.20	68.94	74	-5.06
2483.5	57.44	AV	328	1.8	V	-7.20	50.24	54	-3.76
2500	68.46	PK	18	1.5	H	-7.18	61.28	74	-12.72
2500	55.98	AV	18	1.5	H	-7.18	48.8	54	-5.20
2500	68.44	PK	161	1.1	V	-7.18	61.26	74	-12.74
2500	55.77	AV	161	1.1	V	-7.18	48.59	54	-5.41
4924	60.98	PK	182	2.5	H	-3.16	57.82	74	-16.18
4924	47.85	AV	182	2.5	H	-3.16	44.69	54	-9.31
4924	58.77	PK	32	1.6	V	-3.16	55.61	74	-18.39
4924	44.84	AV	32	1.6	V	-3.16	41.68	54	-12.32

Note:

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

Corrected Amplitude = Corrected Factor + Reading

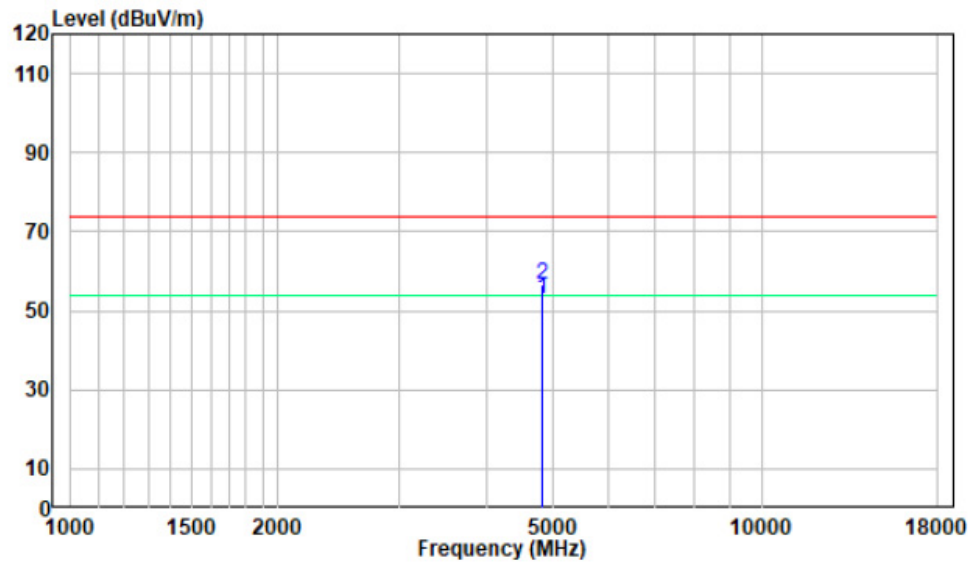
Margin = Corrected. Amplitude - Limit

The other spurious emission which is 20dB to the limit or in noise floor was not recorded.

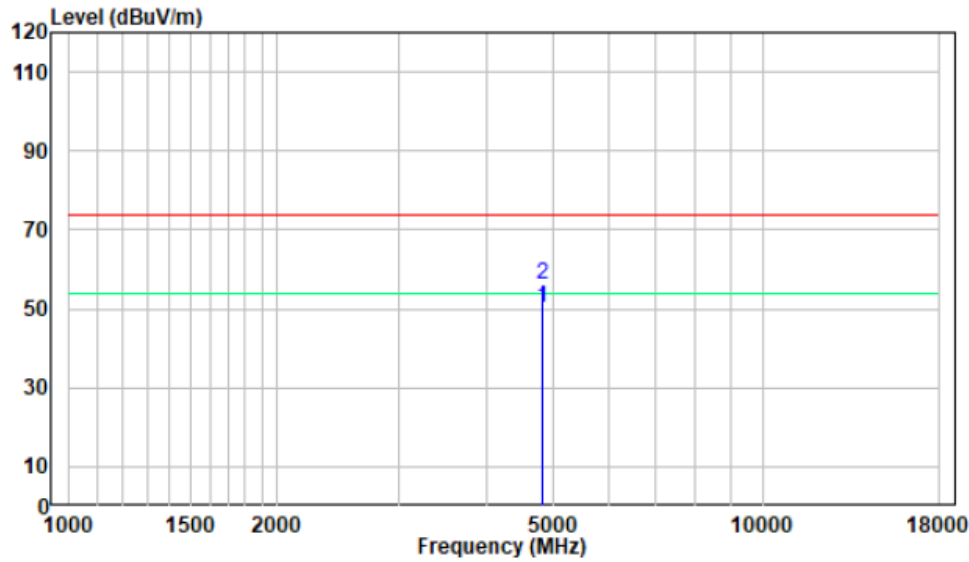
The test result of peak was less than the limit of average, so just peak values were recorded.

1-18 GHz:

Pre-scan for 802.11 B Low Channel
Horizontal

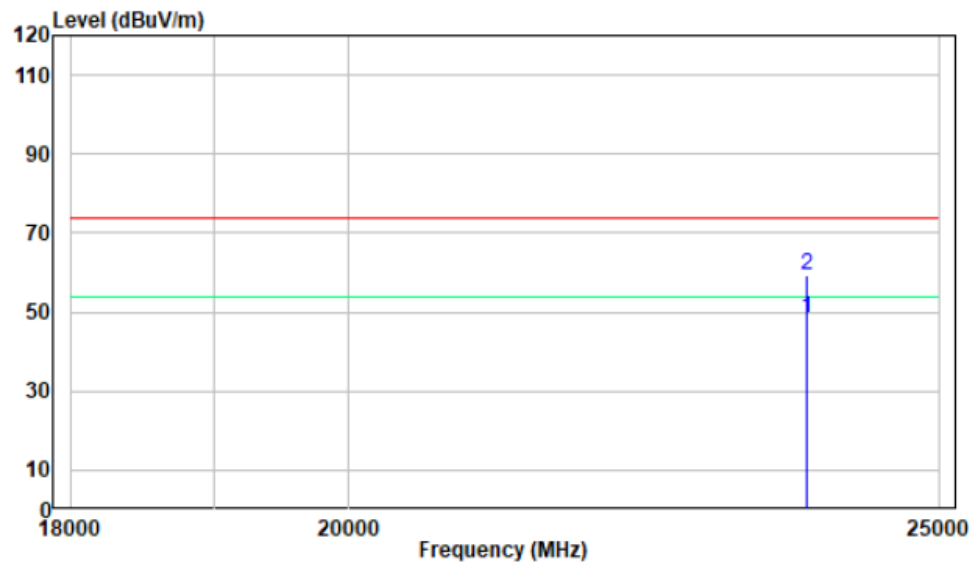


Vertical

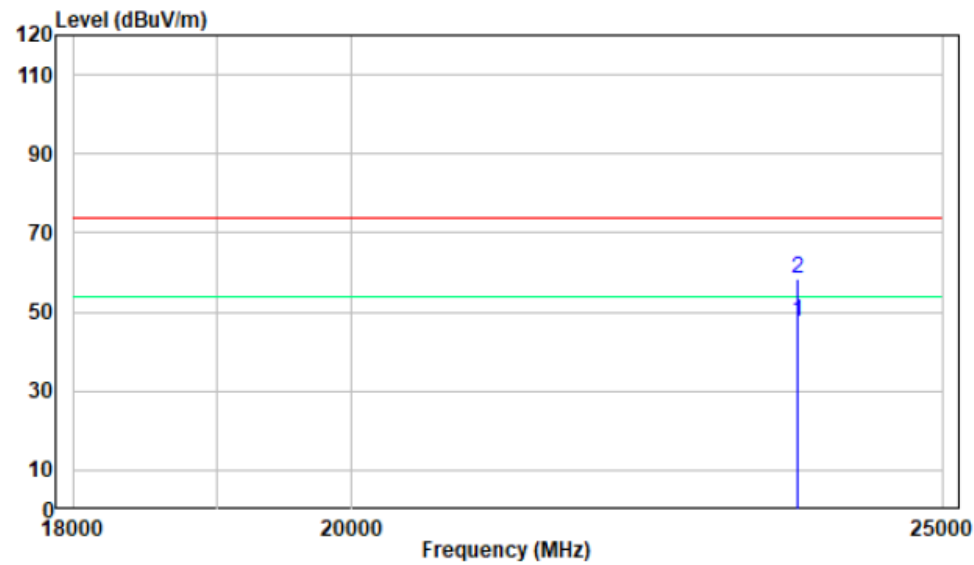


18 -25GHz:

Pre-scan for 802.11 B Low Channel
Horizontal



Vertical



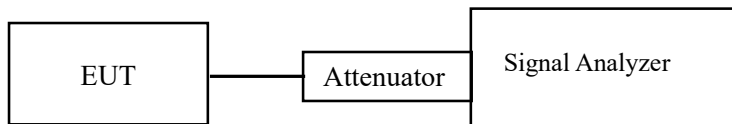
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

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

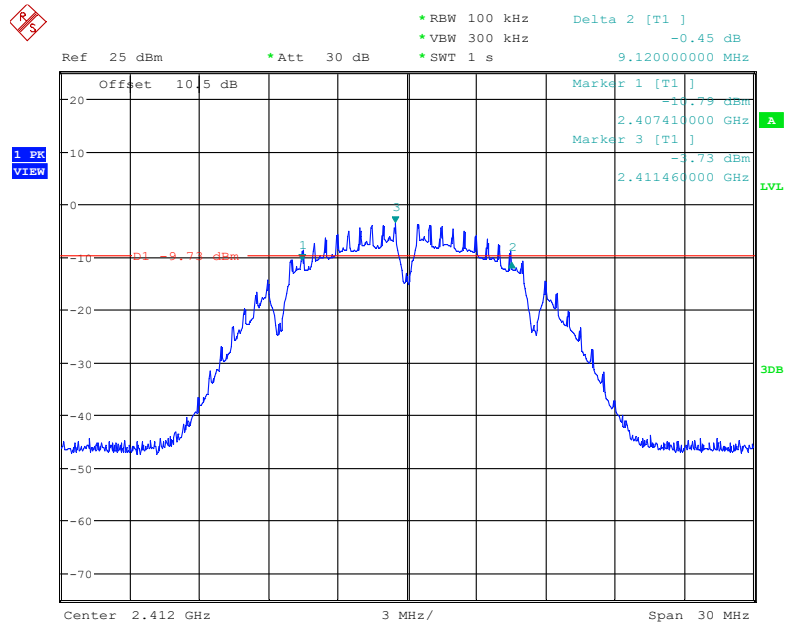
Environmental Conditions

Temperature:	27.5~27.9 °C
Relative Humidity:	35~52 %
ATM Pressure:	101.0 kPa

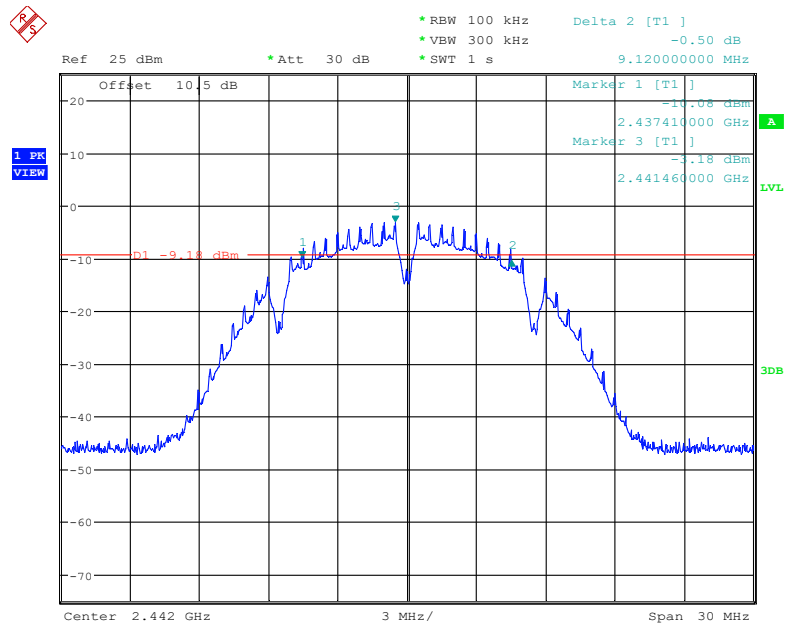
The testing was performed by Andy Yu from 2022-05-17 to 2022-06-29.

EUT operation mode: Transmitting

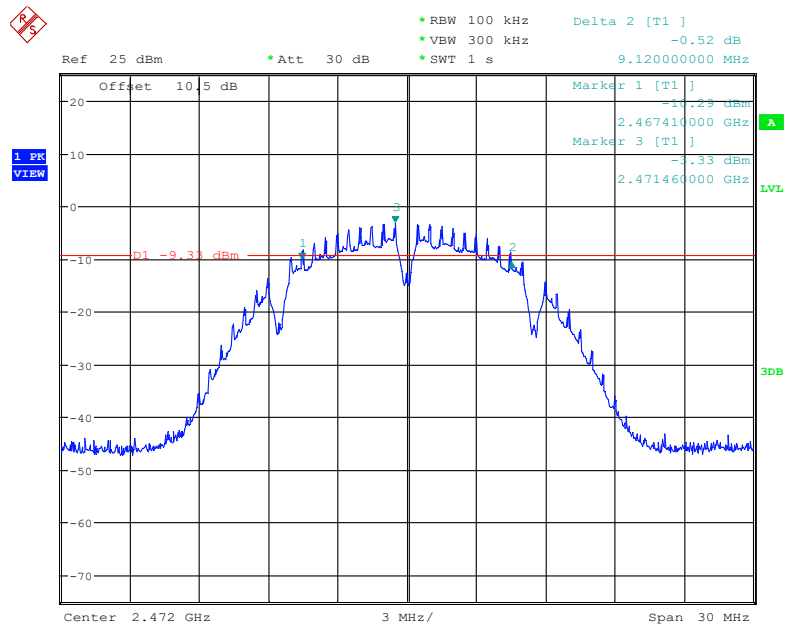
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)
802.11b mode			
Low	2412	9.12	≥ 500
Middle	2442	9.12	≥ 500
High	2472	9.12	≥ 500
802.11g mode			
Low	2412	16.41	≥ 500
Middle	2442	16.41	≥ 500
High	2472	16.41	≥ 500
802.11n-HT20 mode			
Low	2412	17.61	≥ 500
Middle	2442	17.61	≥ 500
High	2472	17.40	≥ 500
802.11n-HT40 mode			
Low	2422	35.22	≥ 500
Middle	2442	36.18	≥ 500
High	2462	36.12	≥ 500
BLE 1M			
Low	2402	0.732	≥ 500
Middle	2440	0.724	≥ 500
High	2480	0.721	≥ 500

6dB Bandwidth, 802.11b Low Channel

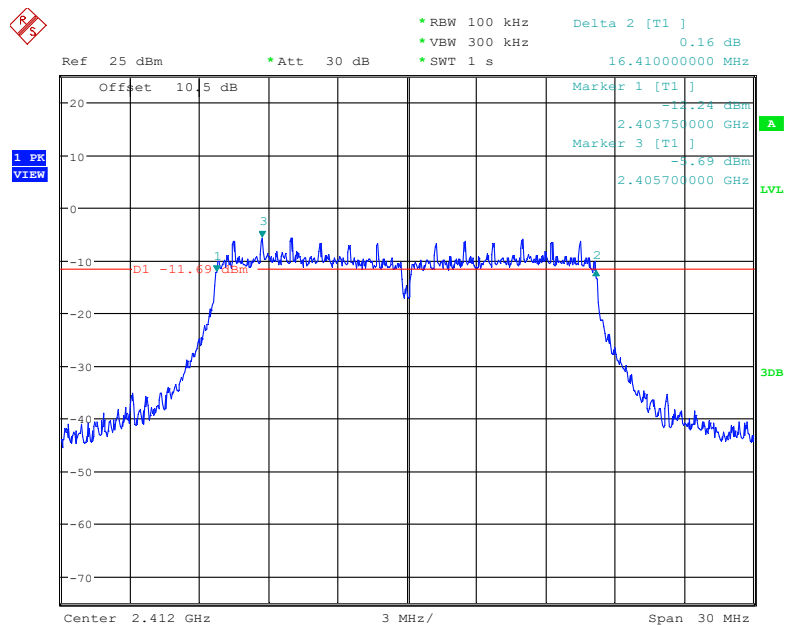
Date: 28.JUN.2022 10:35:36

6dB Bandwidth, 802.11b Middle Channel

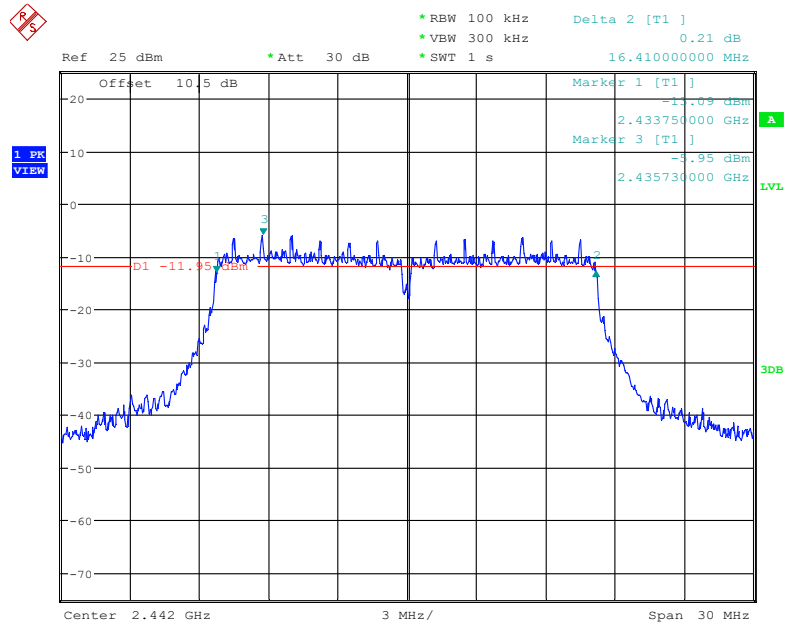
Date: 29.JUN.2022 09:53:32

6dB Bandwidth, 802.11b High Channel

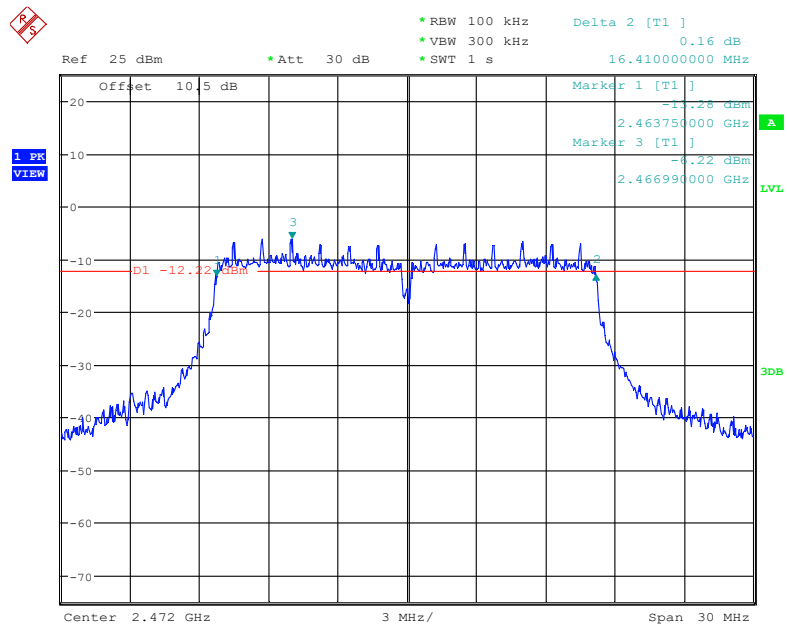
Date: 29.JUN.2022 09:59:04

6dB Bandwidth, 802.11g Low Channel

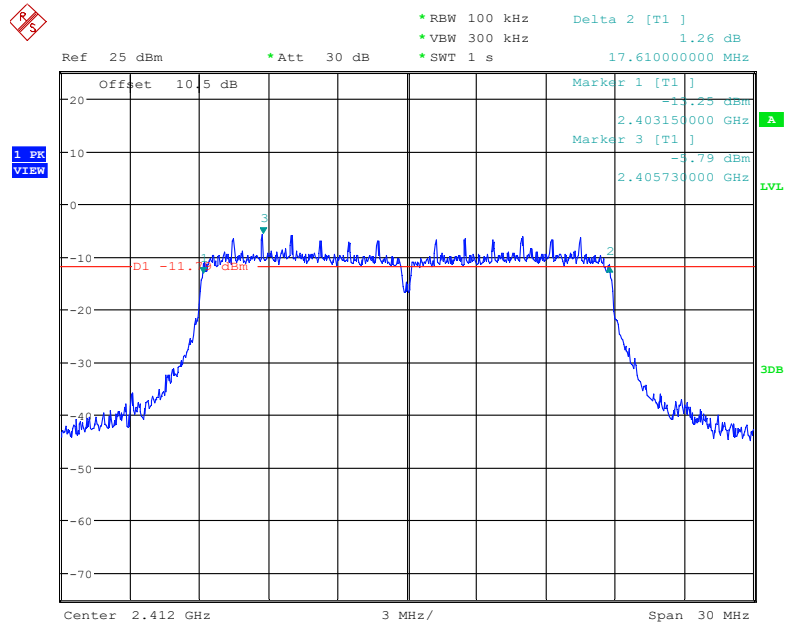
Date: 28.JUN.2022 11:23:54

6dB Bandwidth, 802.11g Middle Channel

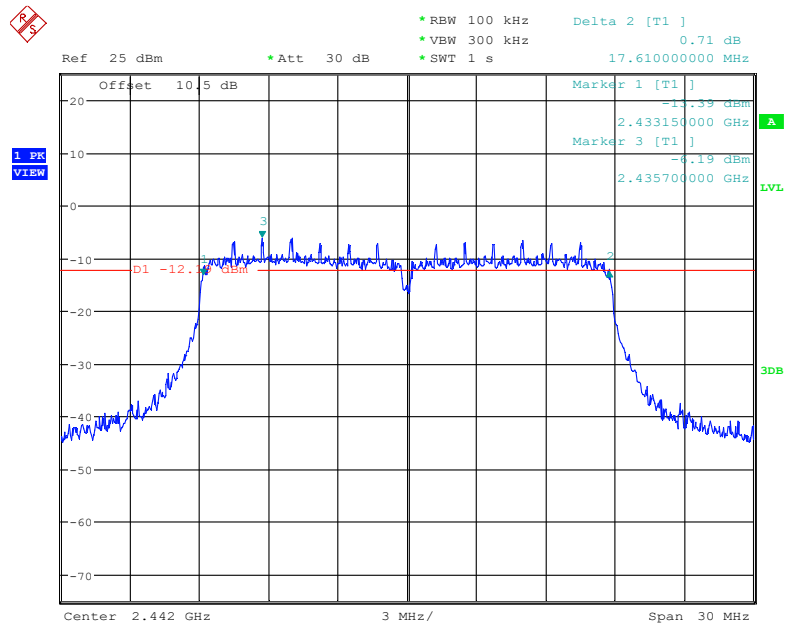
Date: 29.JUN.2022 10:12:10

6dB Bandwidth, 802.11g High Channel

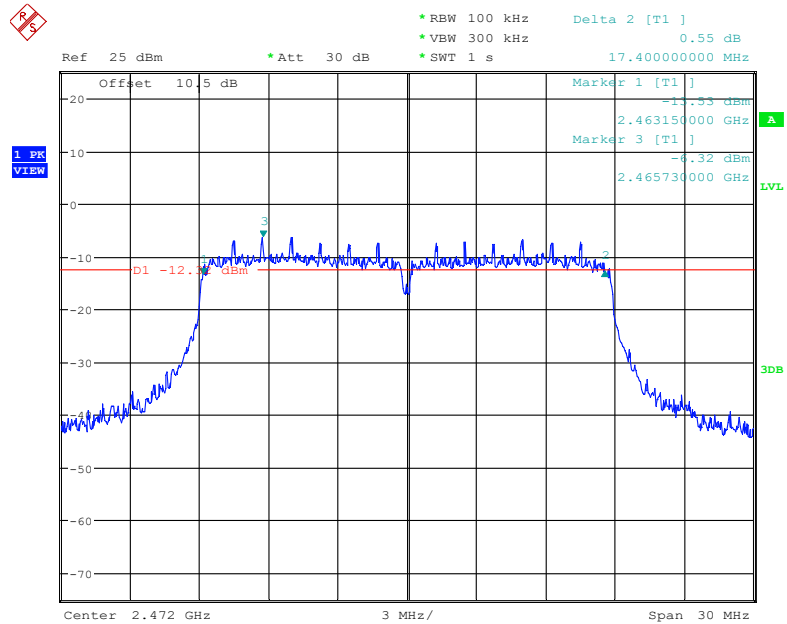
Date: 29.JUN.2022 10:02:54

6dB Bandwidth, 802.11n-HT20 Low Channel

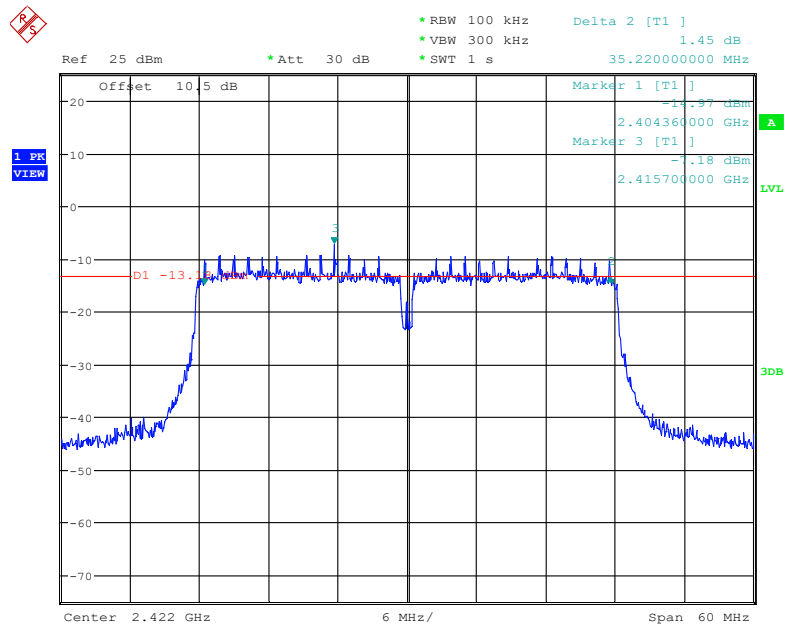
Date: 28.JUN.2022 11:29:15

6dB Bandwidth, 802.11n-HT20 Middle Channel

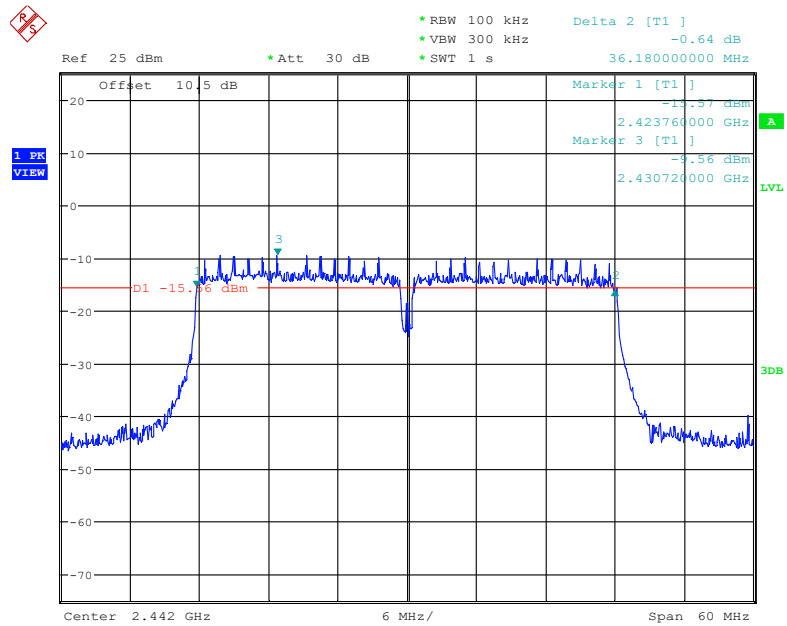
Date: 29.JUN.2022 10:23:43

6dB Bandwidth, 802.11n-HT20 High Channel

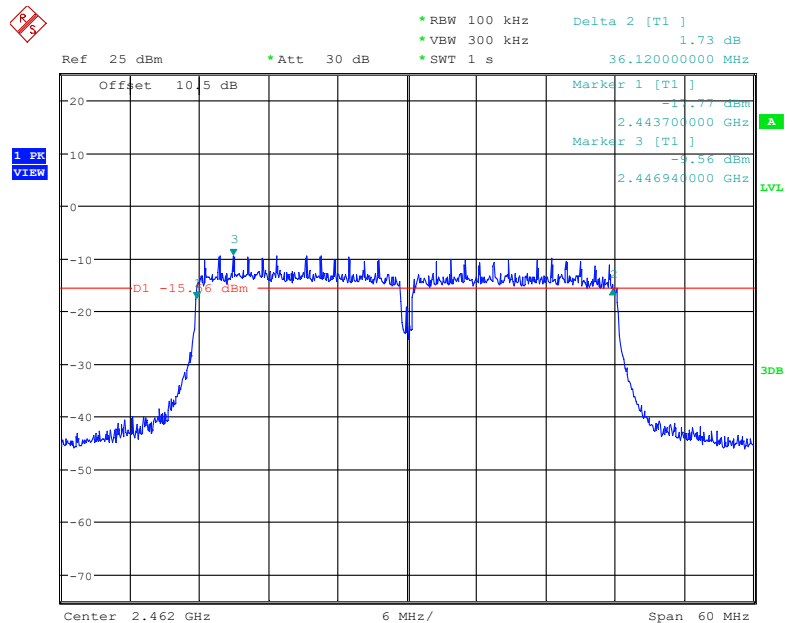
Date: 29.JUN.2022 10:15:46

6dB Bandwidth, 802.11n-HT40 Low Channel

Date: 28.JUN.2022 11:40:24

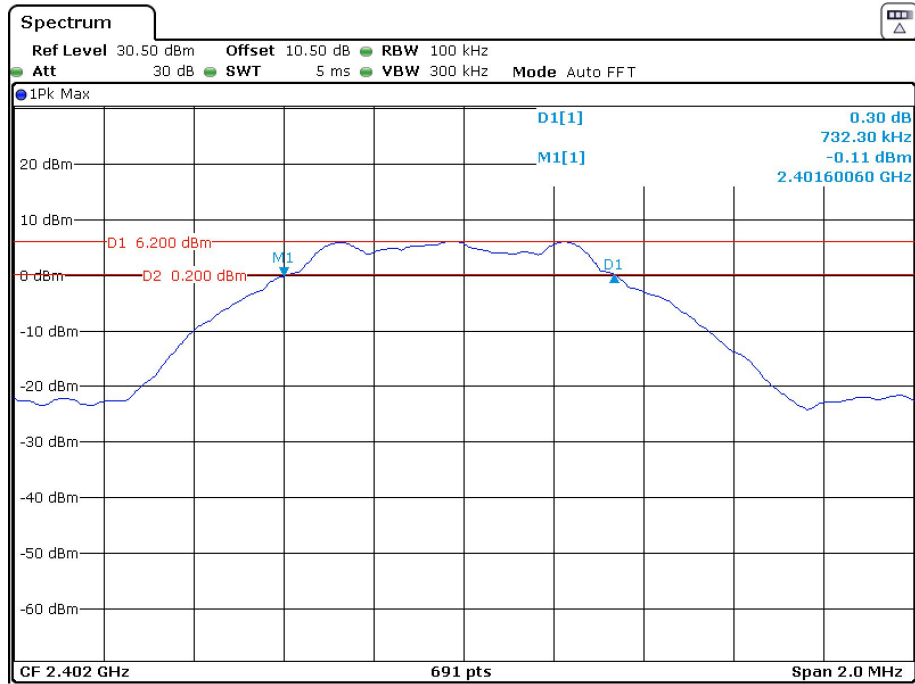
6dB Bandwidth, 802.11n-HT40 Middle Channel

Date: 29.JUN.2022 10:35:41

6dB Bandwidth, 802.11n-HT40 High Channel

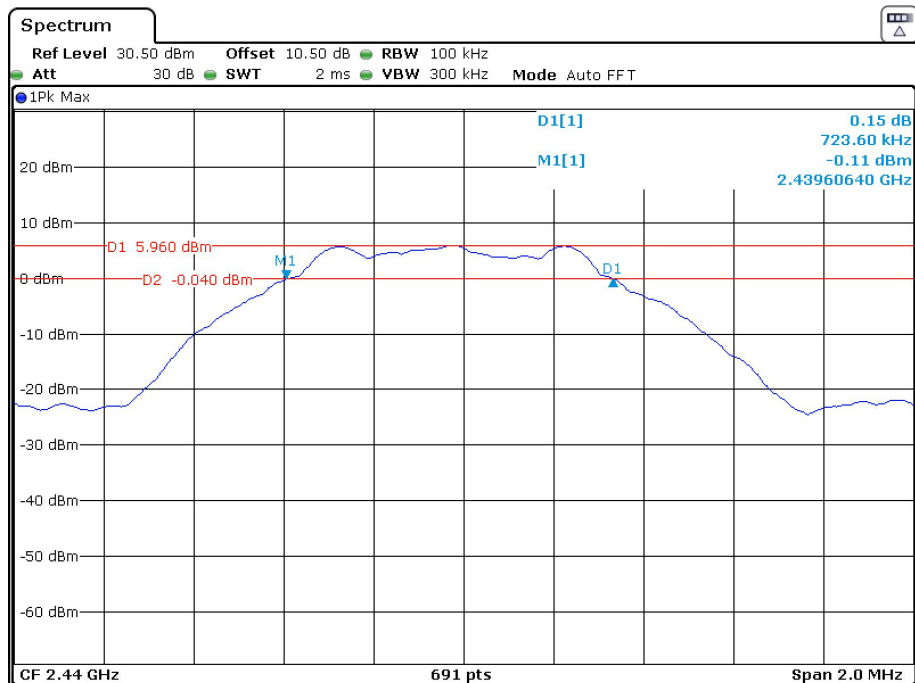
Date: 29.JUN.2022 10:38:52

6dB Bandwidth, BLE-1M Low Channel



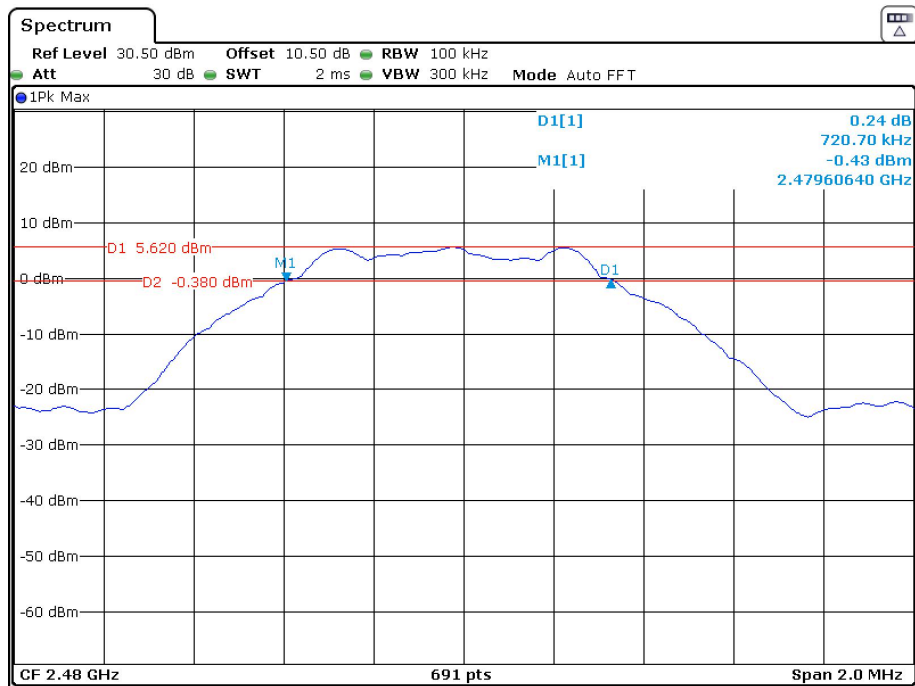
Date: 17.MAY.2022 17:39:05

6dB Bandwidth, BLE-1M Middle Channel



Date: 17.MAY.2022 17:43:06

6dB Bandwidth, BLE-1M High Channel



Date: 17.MAY.2022 17:45:01

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

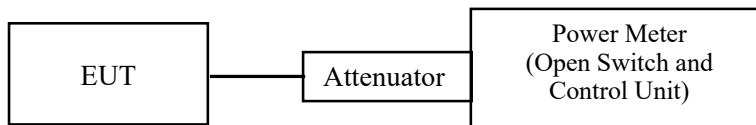
Applicable Standard

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

Test Procedure

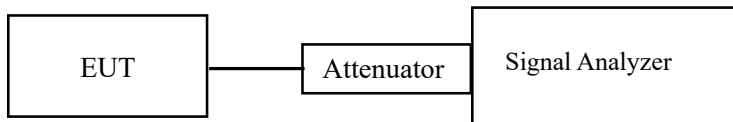
1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.

For Wi-Fi:



Note: the Open Switch and Control Unit with a built-in power sensor.

For BLE:



Test Data

Environmental Conditions

Temperature:	27.5~27.9 °C
Relative Humidity:	35~52 %
ATM Pressure:	101.0 kPa

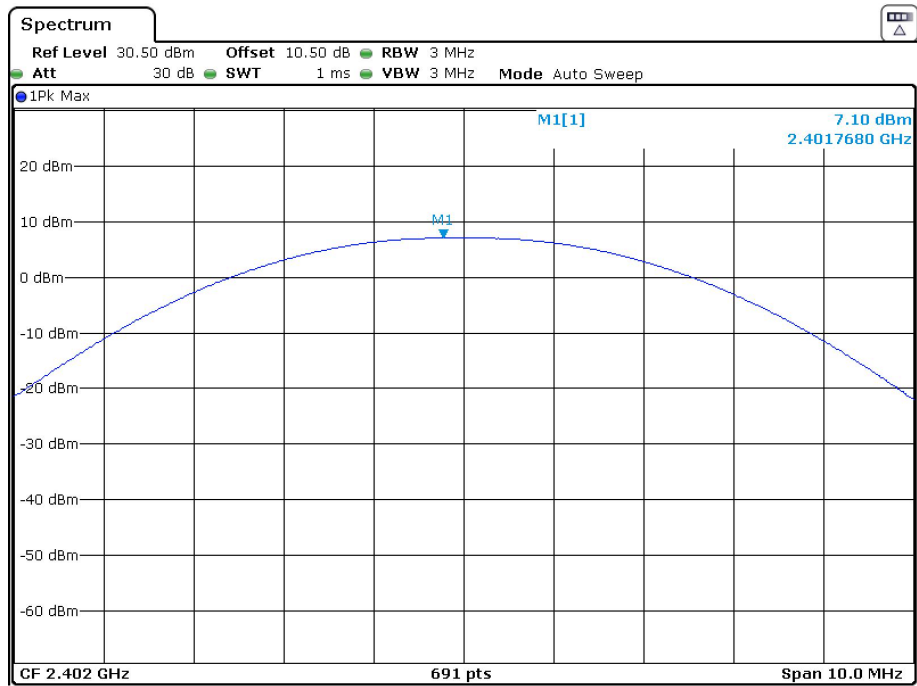
The testing was performed by Andy Yu from 2022-05-17 to 2022-06-29

EUT operation mode: Transmitting

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Max Conducted Average Output Power (dBm)	Limit (dBm)
802.11b mode				
Low	2412	7.66	3.98	30
Middle	2442	8.28	4.42	30
High	2472	8.11	4.35	30
802.11g mode				
Low	2412	11.92	4.32	30
Middle	2442	13.10	4.96	30
High	2472	12.82	4.89	30
802.11n HT20 mode				
Low	2412	12.00	4.08	30
Middle	2442	13.12	4.85	30
High	2472	12.96	4.63	30
802.11n HT40 mode				
Low	2422	11.92	4.20	30
Middle	2442	13.02	4.89	30
High	2462	13.05	4.77	30

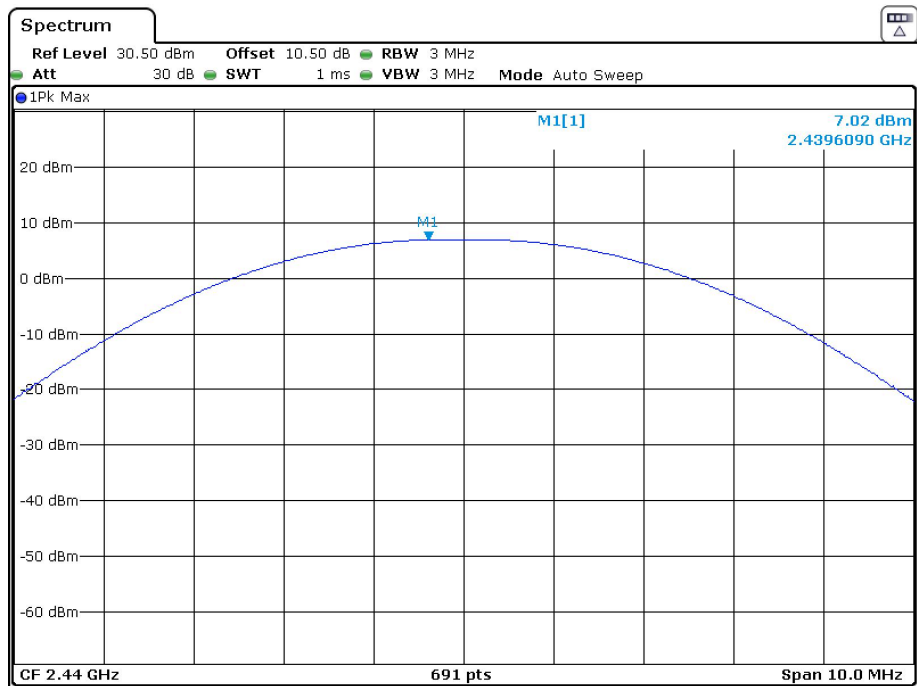
Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)
BLE 1M			
Low	2402	7.10	30
Middle	2440	7.02	30
High	2480	6.57	30

BLE-1M Low Channel



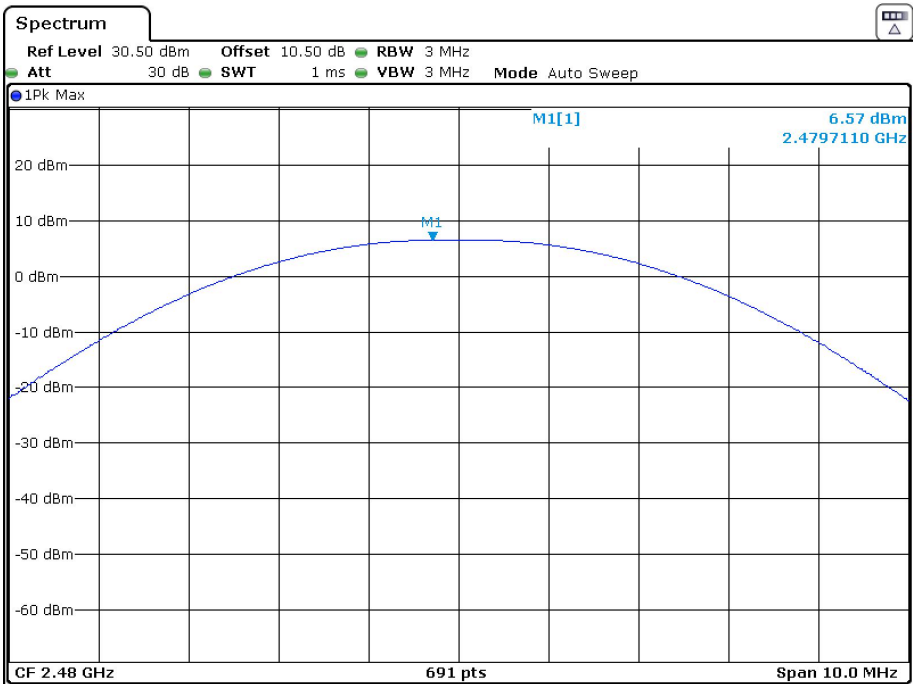
Date: 17.MAY.2022 17:20:26

BLE-1M Middle Channel



Date: 17.MAY.2022 17:22:31

BLE-1M High Channel



Date: 17.MAY.2022 17:24:57

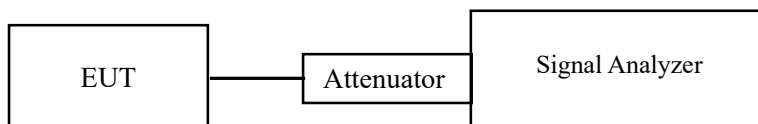
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

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:	27.5~27.9 °C
Relative Humidity:	35~52 %
ATM Pressure:	101.0 kPa

The testing was performed by Andy Yu from 2022-05-17 to 2022-06-29.

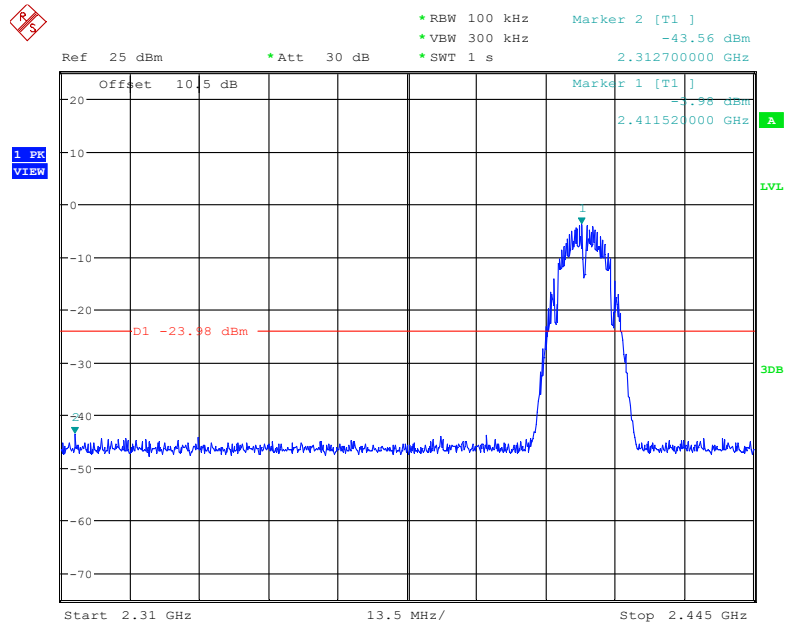
EUT operation mode: Transmitting

Test Result: Compliant.

Conducted Band Edge Result:

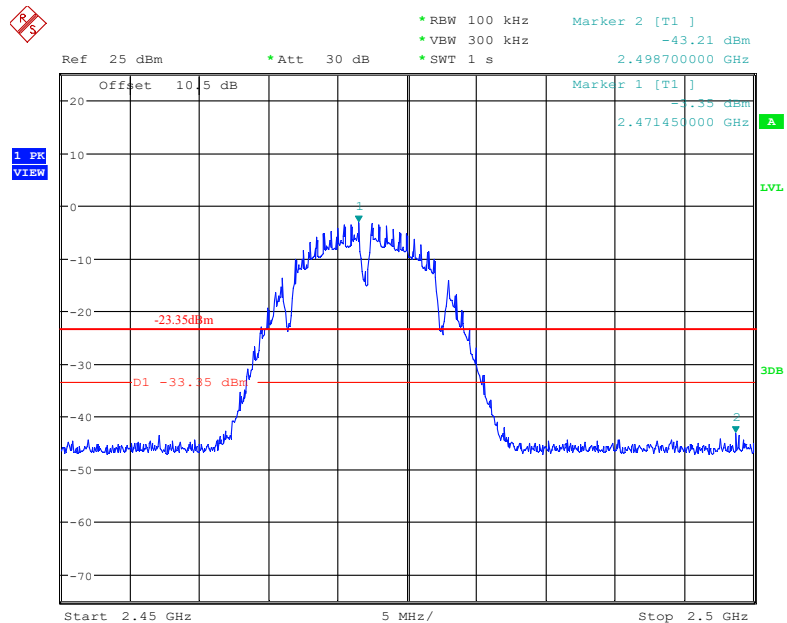
Please refer to the following plots.

802.11b: Band Edge, Left Side

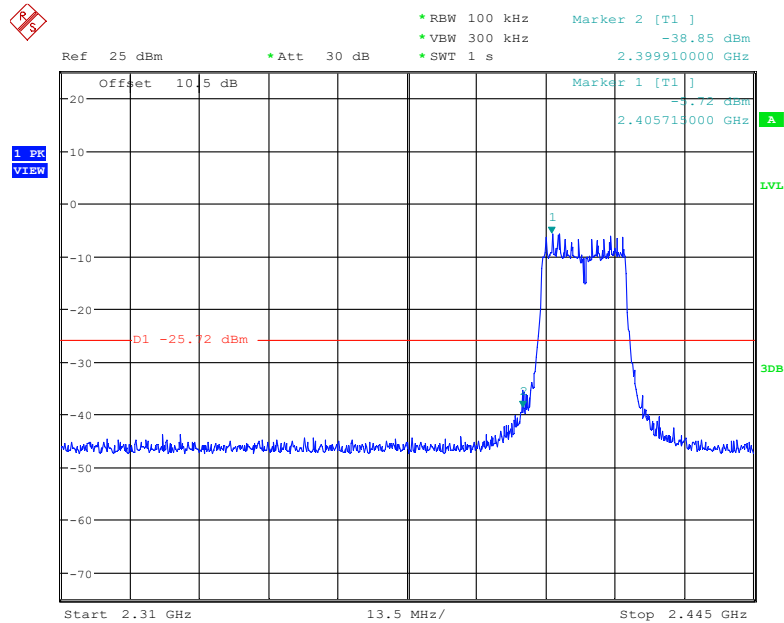


Date: 28.JUN.2022 10:36:43

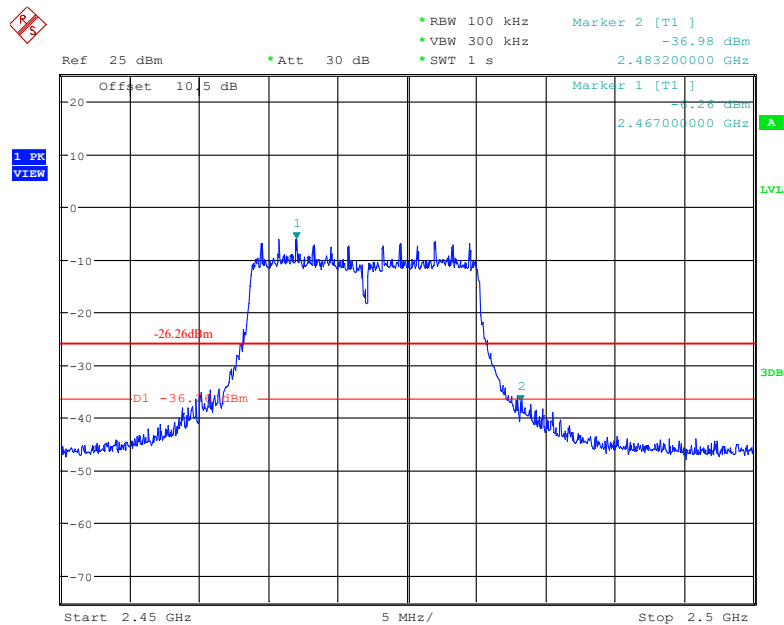
802.11b: Band Edge, Right Side



Date: 29.JUN.2022 10:00:11

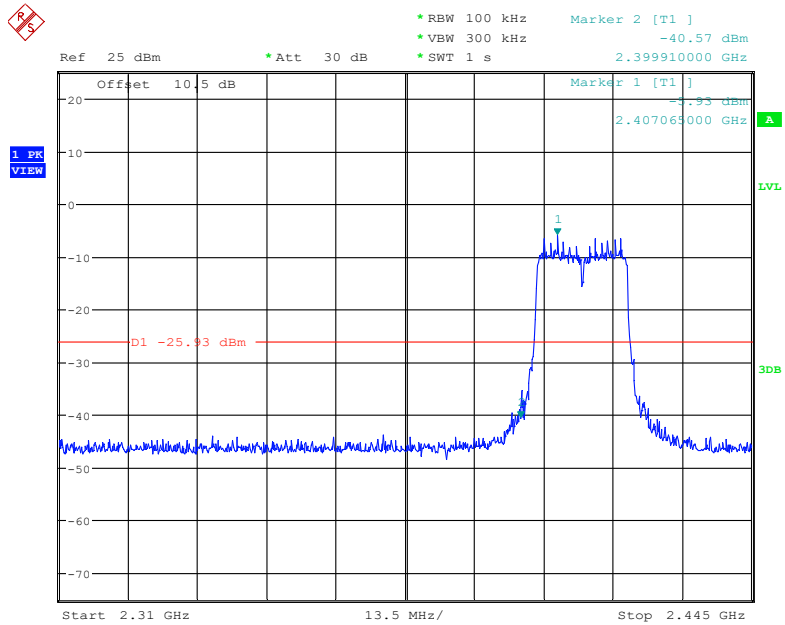
802.11g: Band Edge, Left Side

Date: 28.JUN.2022 11:25:00

802.11g: Band Edge, Right Side

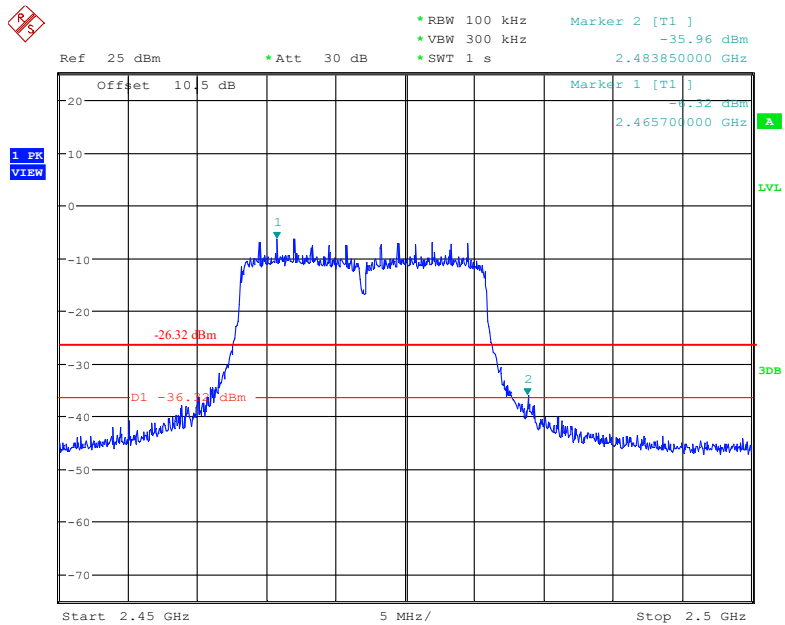
Date: 29.JUN.2022 10:07:54

802.11n-HT20: Band Edge, Left Side



Date: 28.JUN.2022 11:30:21

802.11n-HT20: Band Edge, Right Side



Date: 29.JUN.2022 10:16:54

Ref 25 dBm * Att 30 dB * RBW 100 kHz * VBW 300 kHz * SWT 1 s

Marker 2 [T1] -40.31 dBm 2.399235000 GHz

Marker 1 [T1] -29.49 dBm 2.407065000 GHz

1 PK VIEW

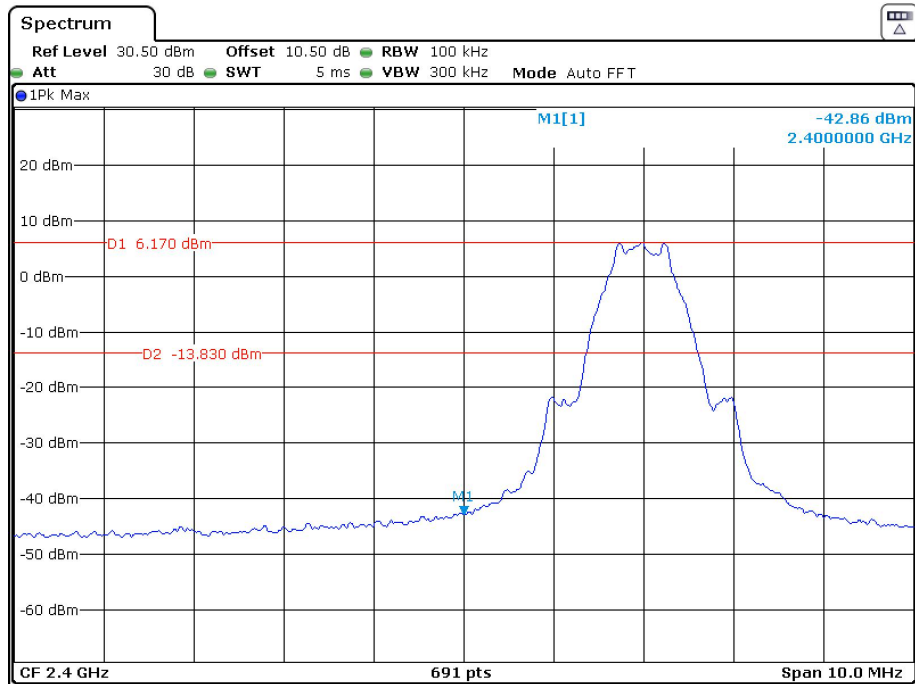
Start 2.31 GHz 13.5 MHz/ Stop 2.445 GHz

Date: 28.JUN.2022 11:41:30

[illegible]

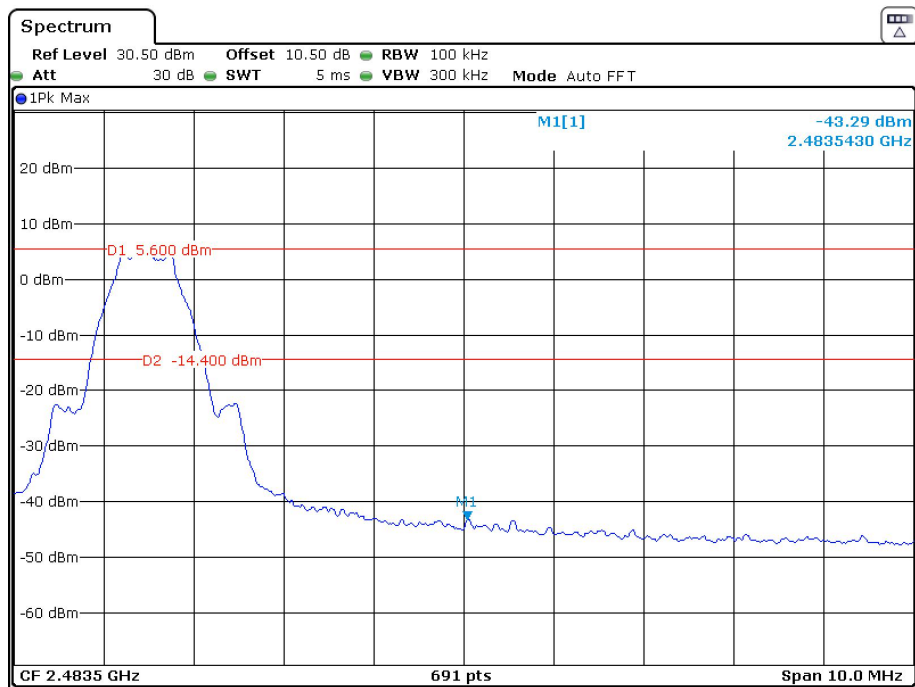
Date: 29.JUN.2022 11:04:04

BLE 1M: Band Edge, Left Side



Date: 17.MAY.2022 17:32:01

BLE 1M: Band Edge, Right Side



Date: 17.MAY.2022 17:30:35

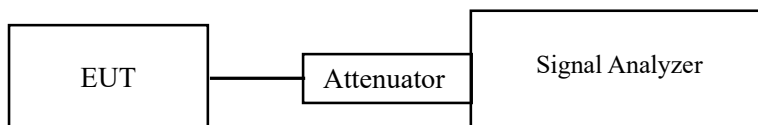
FCC §15.247(e) - POWER SPECTRAL DENSITY

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

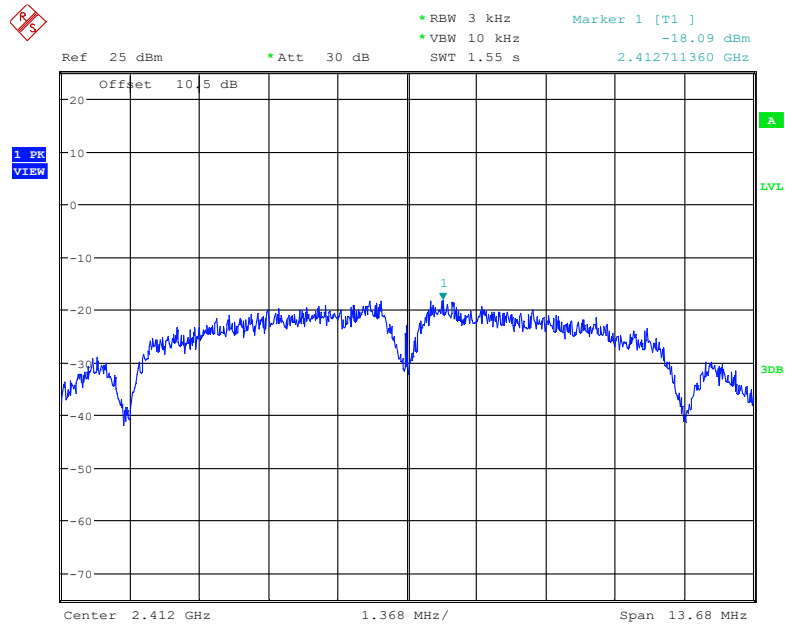
Environmental Conditions

Temperature:	27.5~27.9 °C
Relative Humidity:	35~52 %
ATM Pressure:	101.0 kPa

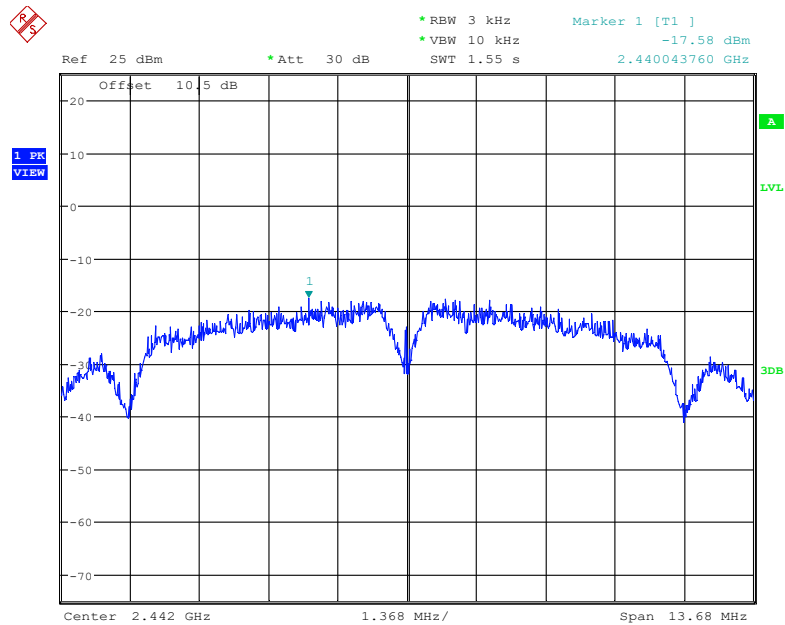
The testing was performed by Andy Yu from 2022-05-17 to 2022-06-29

EUT operation mode: Transmitting

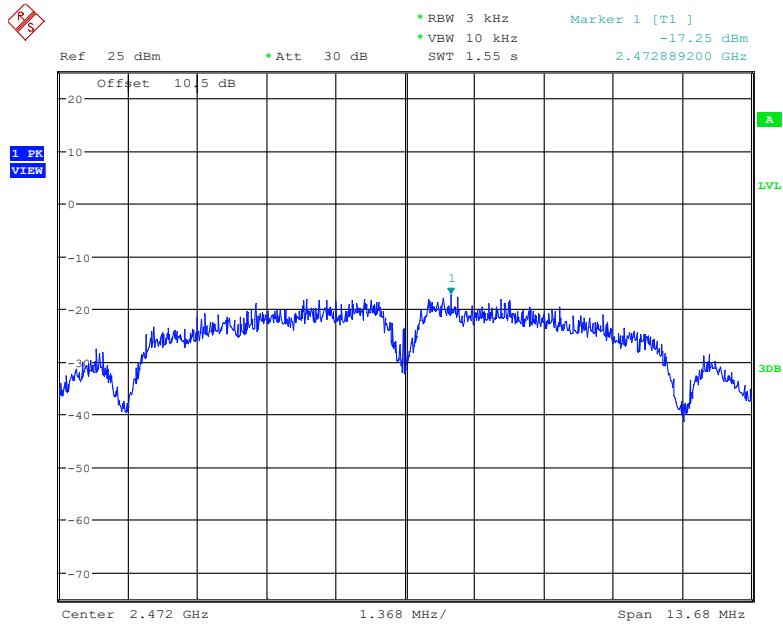
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b mode			
Low	2412	-18.09	≤ 8
Middle	2442	-17.58	≤ 8
High	2472	-17.25	≤ 8
802.11g mode			
Low	2412	-20.64	≤ 8
Middle	2442	-20.76	≤ 8
High	2472	-21.45	≤ 8
802.11n-HT20 mode			
Low	2412	-20.22	≤ 8
Middle	2442	-18.73	≤ 8
High	2472	-21.18	≤ 8
802.11n-HT40 mode			
Low	2422	-21.66	≤ 8
Middle	2442	-21.83	≤ 8
High	2462	-22.57	≤ 8
BLE 1M			
Low	2402	-9.46	≤ 8
Middle	2440	-9.35	≤ 8
High	2480	-9.71	≤ 8

Power Spectral Density, 802.11b Low Channel

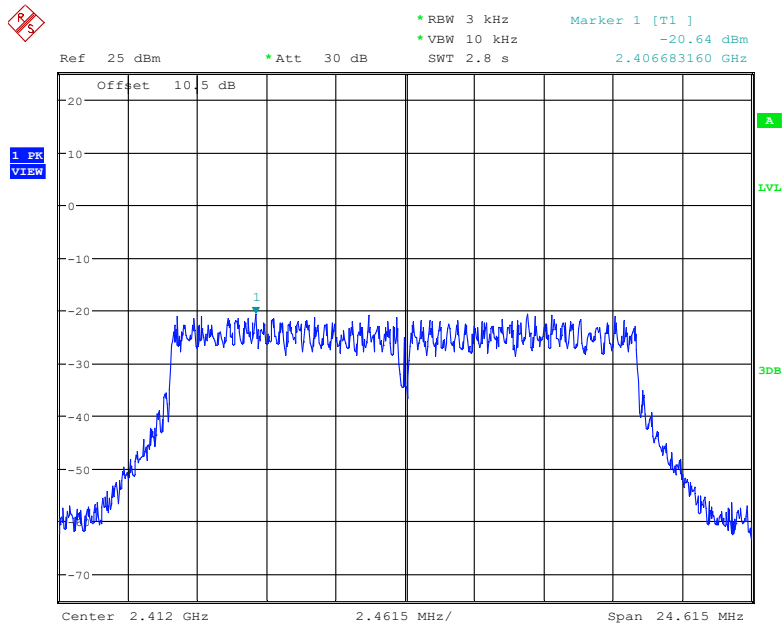
Date: 28.JUN.2022 10:36:15

Power Spectral Density, 802.11b Middle Channel

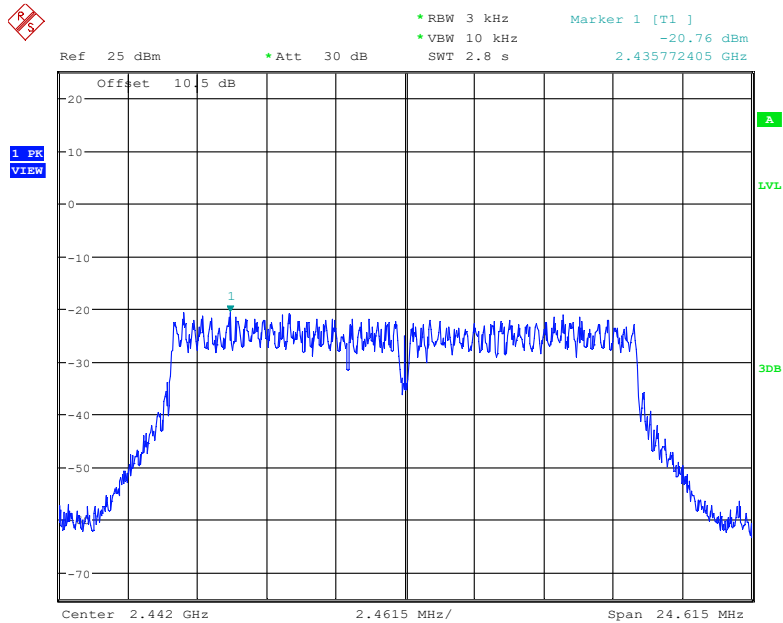
Date: 29.JUN.2022 09:54:10

Power Spectral Density, 802.11b High Channel

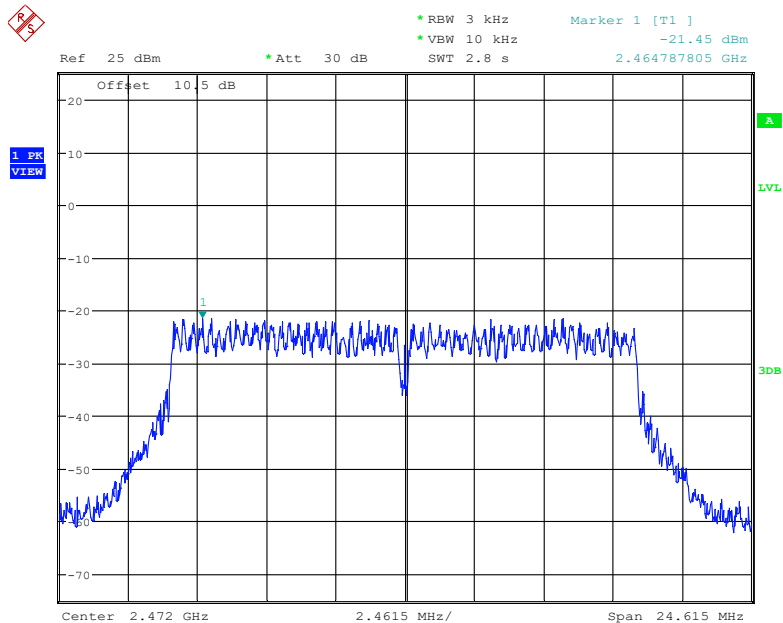
Date: 29.JUN.2022 09:59:42

Power Spectral Density, 802.11g Low Channel

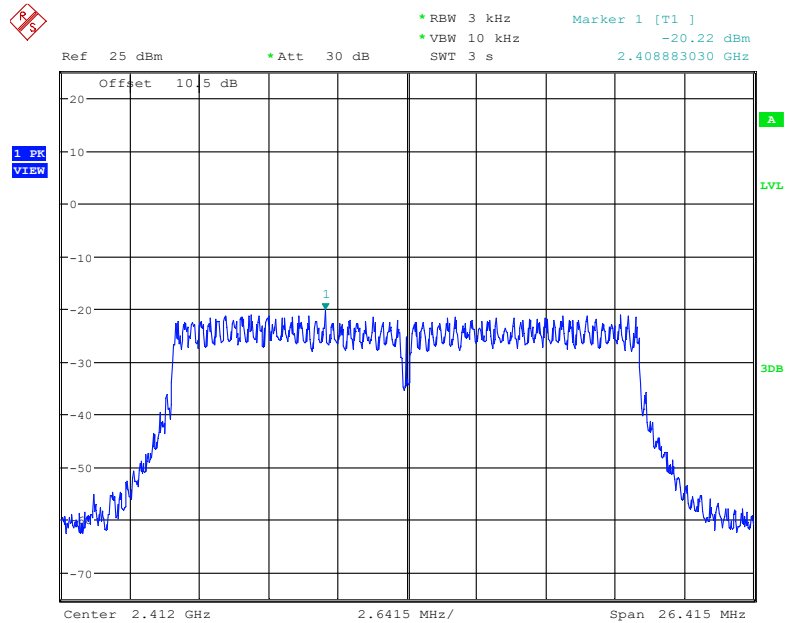
Date: 28.JUN.2022 11:24:32

Power Spectral Density, 802.11g Middle Channel

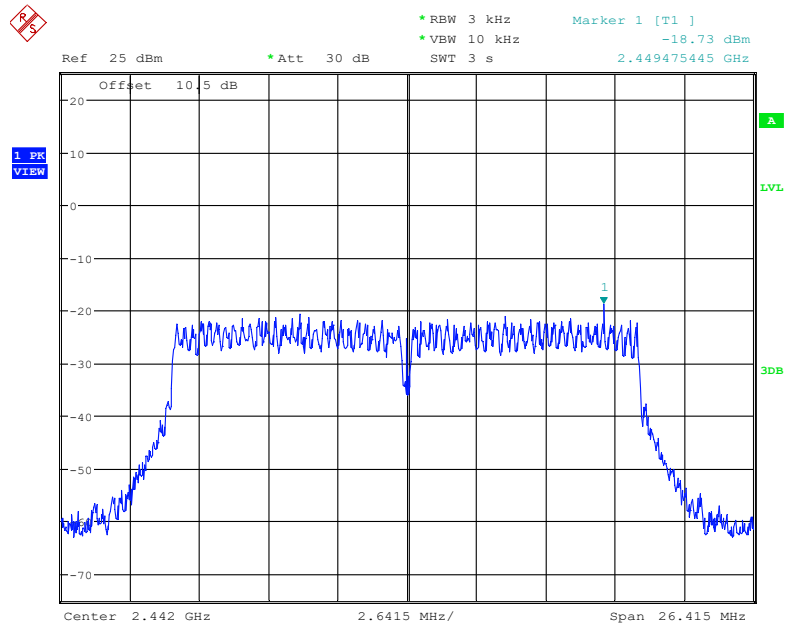
Date: 29.JUN.2022 10:12:49

Power Spectral Density, 802.11g High Channel

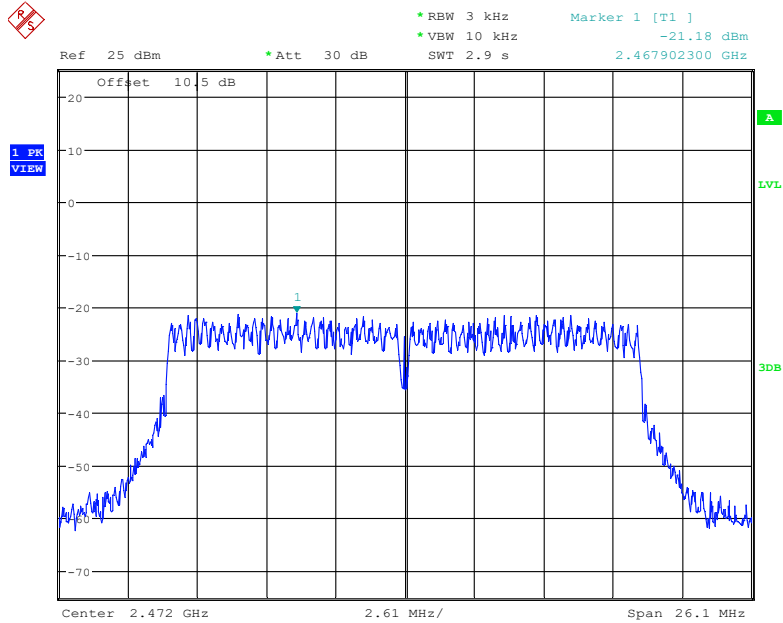
Date: 29.JUN.2022 10:03:33

Power Spectral Density, 802.11n-HT20 Low Channel

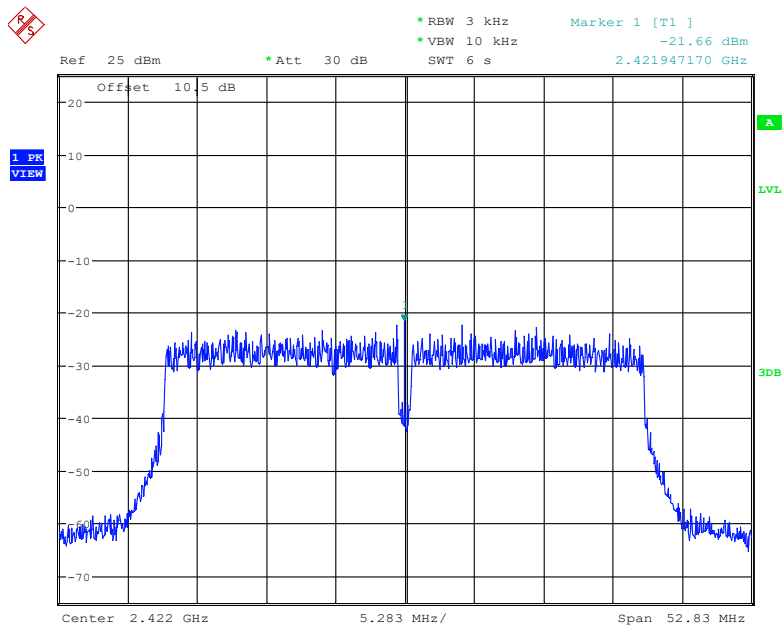
Date: 28.JUN.2022 11:29:53

Power Spectral Density, 802.11n-HT20 Middle Channel

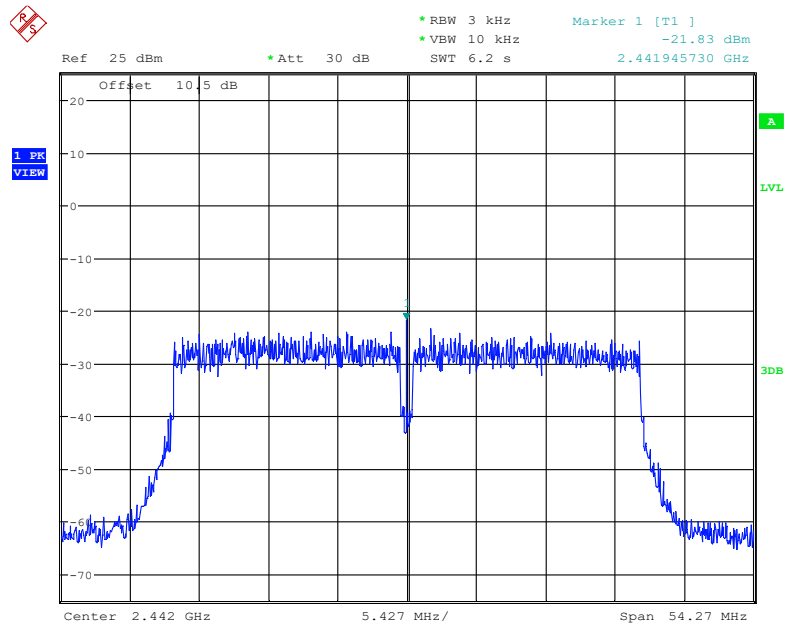
Date: 29.JUN.2022 10:24:21

Power Spectral Density, 802.11n-HT20 High Channel

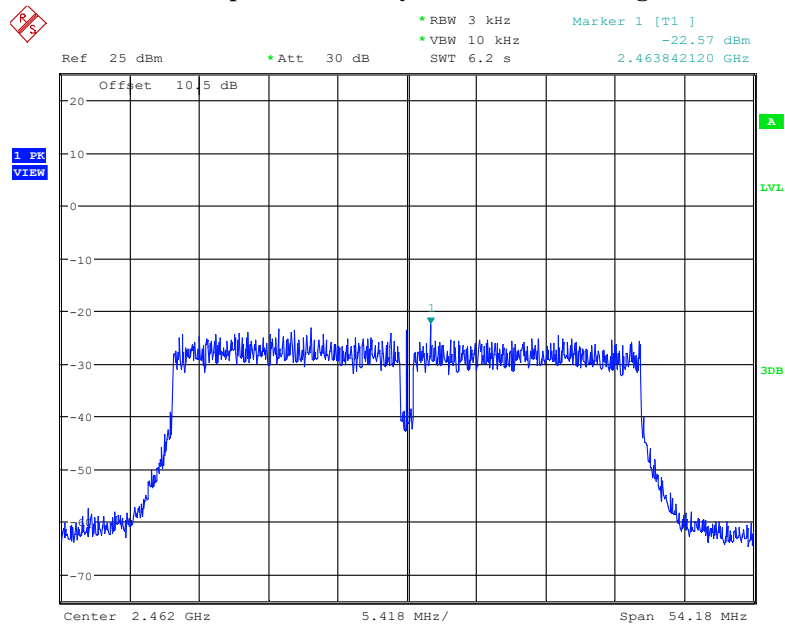
Date: 29.JUN.2022 10:16:25

Power Spectral Density, 802.11n-HT40 Low Channel

Date: 28.JUN.2022 11:41:02

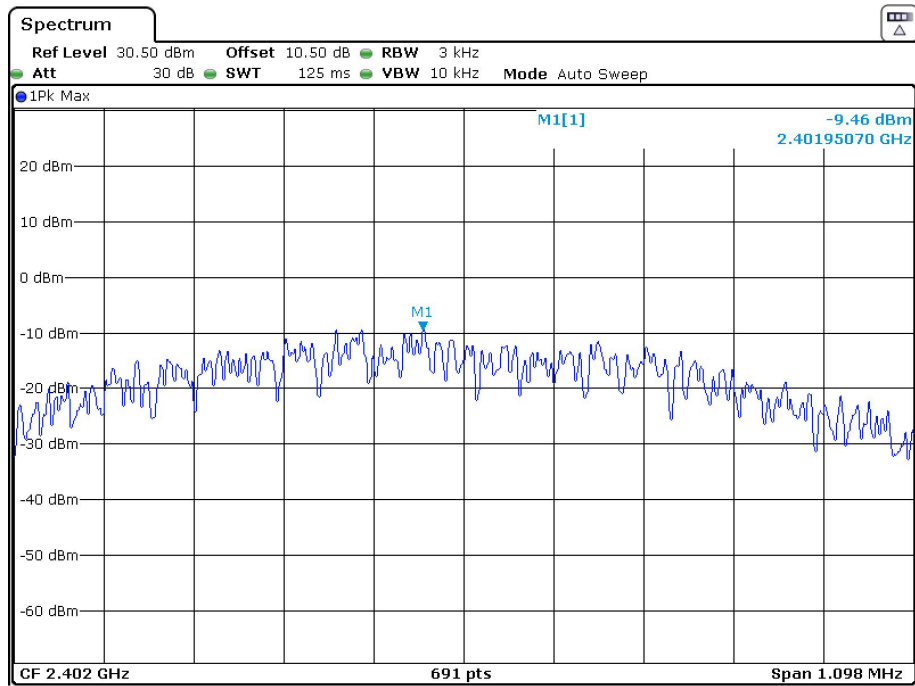
Power Spectral Density, 802.11n-HT40 Middle Channel

Date: 29.JUN.2022 10:36:19

Power Spectral Density, 802.11n-HT40 High Channel

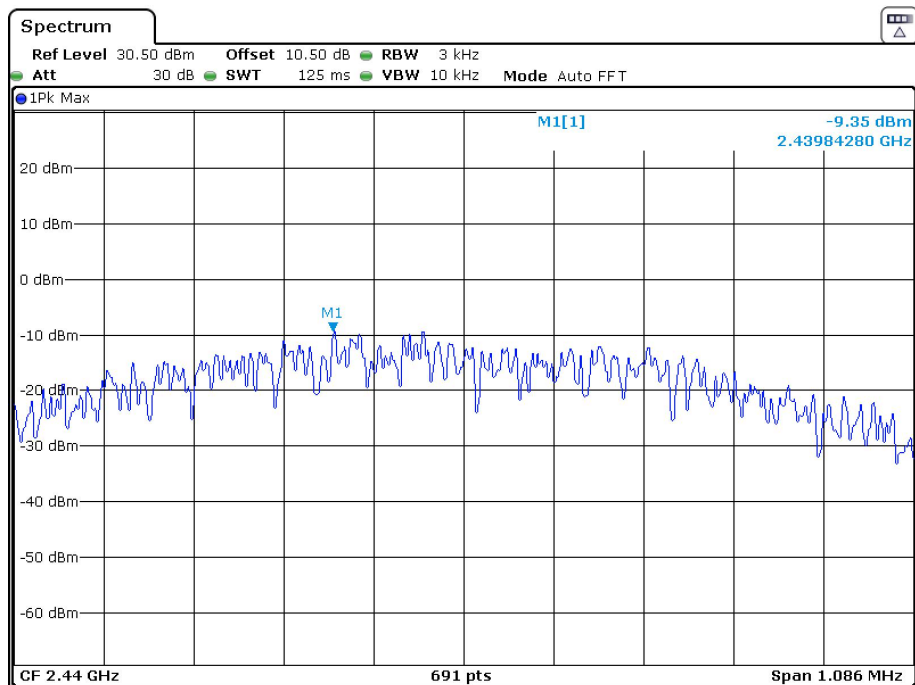
Date: 29.JUN.2022 10:39:31

Power Spectral Density, BLE 1M Low Channel

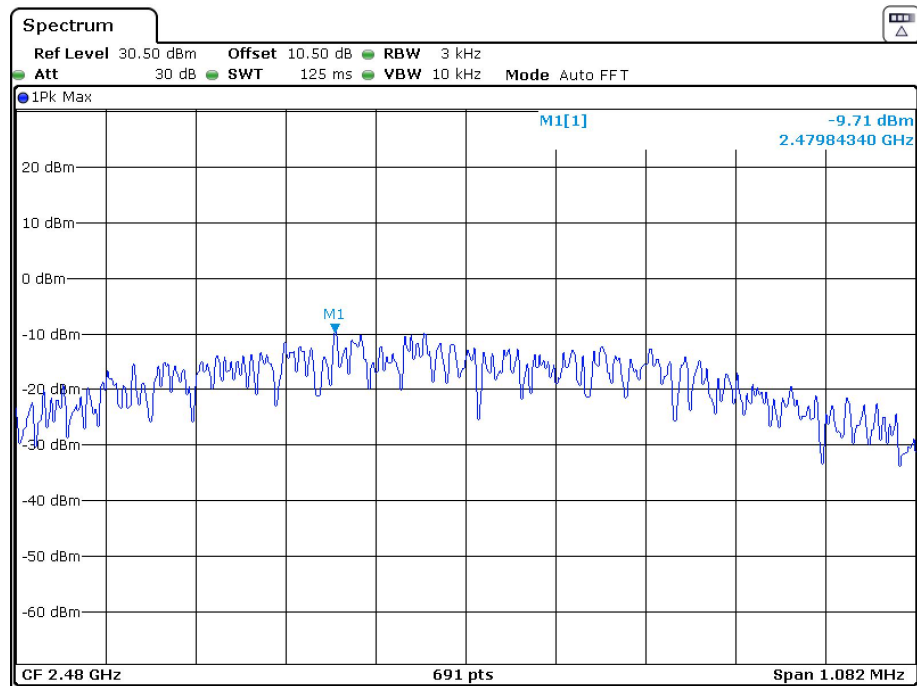


Date: 17.MAY.2022 17:53:17

Power Spectral Density, BLE 1M Middle Channel



Date: 17.MAY.2022 17:55:54

Power Spectral Density, BLE 1M High Channel

Date: 17.MAY.2022 17:58:04

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