



FCC PART 15.247 TEST REPORT

For

Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.

No.6, Yong An Road, Beijiao, Shunde, Foshan, Guangdong, China

FCC ID: VG8IOT10MP1

Report Type: **Product Type:** Original Report Wi-Fi &BLE MODULE **Report Number:** RSZ190930551-00B **Report Date:** 2019-11-26 Kieronlus Kieron Luo Reviewed By: RF Engineer Prepared By: Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Wi-Fi&BLE MODULE
Tested Model	Midea_IOT10M_P1
Frequency Range	Bluetooth LE: 2402~2480MHz Wi-Fi: 2412~2462MHz
Conducted Peak Power	Bluetooth LE: 6.77 dBm Wi-Fi: 802.11b: 18.12 dBm, 802.11g: 19.96 dBm, 802.11N20: 17.93 dBm, 802.11N40: 17.42 dBm
Modulation Technique	Bluetooth LE: GFSK Wi-Fi: DSSS, OFDM
Antenna Specification	Bluetooth/Wi-Fi: 3dBi@2.4GHz
Voltage Range	DC 5 V
Date of Test	2019/10/21 to 2019/11/25
Sample serial number	190930551 (Assigned by BACL, Shenzhen)
Received date	2019/09/30
Sample/EUT Status	Good Condition

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Objective

This report is prepared on behalf of *Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.* 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.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DSS and Part 15.407 NII submissions with FCC ID: VG8IOT10MP1.

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.

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Measurement Uncertainty

Parameter		Uncertainty
Occupied Char	nnel 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,	Below 1GHz	±4.75dB
Radiated	Above 1GHz	±4.88dB
Temperature		±1℃
Humidity		±6%
Supply	voltages	±0.4%

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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.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 802.11b, 802.11g and 802.11n-HT20 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	/	/

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

For 802.11n-HT40 mode, 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2422	6	2447
2	2427	7	2452
3	2432	/	/
4	2437	/	/
5	2442	/	/

EUT was tested with Channel 1, 4 and 7.

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For BLE mode, 40 channels are provided to testing:

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

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EUT was tested with Channel 0, 19 and 39.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

"WCN_Combo_Tool_Setup.exe"Software was used for BLE test and "QATool_Dbg_Ram.exe" software was used for Wi-Fi test.

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

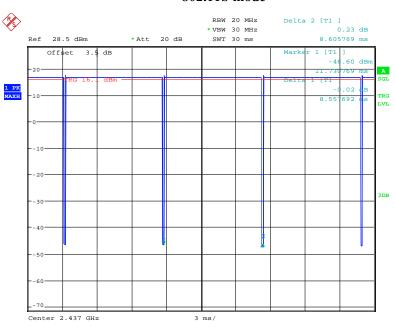
Mode	Data vota	Power level		
Mode	Data rate	Low channel	Middle channel	High channel
802.11b	1 Mbps	13.0	13.0	13.0
802.11g	6 Mbps	11.0	11.0	11.0
802.11n-HT20	MCS0	10.0	10.0	10.0
802.11n-HT40	MCS0	10.5	10.5	10.5
BLE	/	5	5	5

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

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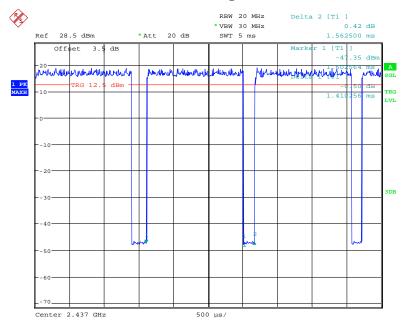
802.11b mode

Report No.: RSZ190930551-00B



Date: 24.OCT.2019 21:45:54

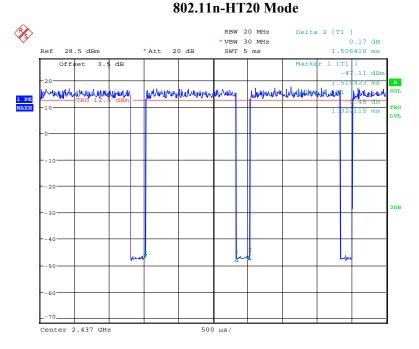
802.11g mode



Date: 24.OCT.2019 21:44:47

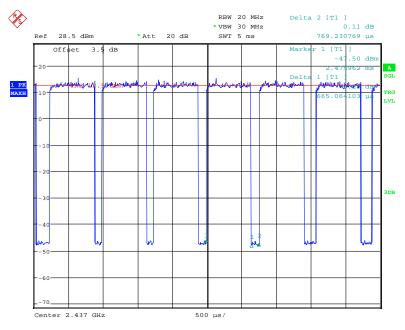
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Report No.: RSZ190930551-00B



Date: 24.OCT.2019 21:44:01

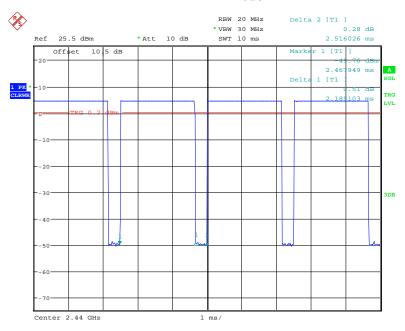
802.11n-HT40 Mode



Date: 24.OCT.2019 21:43:16

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BLE Mode



Date: 25.NOV.2019 10:41:33

Mode	Ton (ms)	Ton+off (ms)	Duty Cycle (%)
802.11b	8.558	8.606	99.44
802.11g	1.410	1.563	90.21
802.11n-HT20	1.322	1.506	87.78
802.11n-HT40	0.665	0.769	86.48
BLE	2.189	2.516	87.00

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Toshiba	Laptop	Satellite C600	PSCZNQ-00G006
Toshiba	AC/DC Adapter	PA3715E-1AC3	T0311043001798DA
N/A	Testing Jig#2	N/A	N/A
N/A	Testing Jig#1	N/A	N/A

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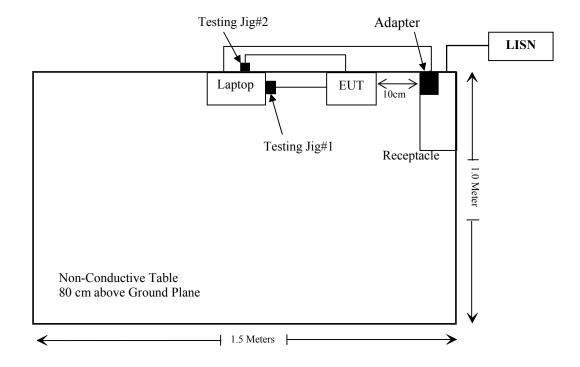
External I/O Cable

Cable Description	Length (m)	From Port	То
Un-Shielding Detachable AC Cable	2.0	LISN	Adapter
Un-Shielding Detachable DC Cable	2.0	Adapter	Laptop

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Block Diagram of Test Setup

For conducted emission:



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §2.1091	Maximum Permissible Exposure(MPE)	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

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TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
Conducted Emissions Test						
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2019-07-11	2020-07-11	
Rohde & Schwarz	LISN	ENV216	3560.6650.12- 101613-Yb	2019-01-25	2020-01-25	
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2019-03-02	2020-03-02	
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR	
Un-known	Conducted Emission Cable	78652	UF A210B-1- 0720-504504	2018-11-12	2019-11-12	
	Radia	ated Emission T	'est			
A.H. System	Horn Antenna	SAS-200/571	135	2018-09-01	2021-08-31	
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2019-07-22	2020-07-21	
COM-POWER	Pre-amplifier	PA-122	181919	2018-11-12	2019-11-12	
Sonoma Instrument	Amplifier	310N	186238	2018-11-12	2019-11-12	
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2017-12-22	2020-12-21	
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2019-07-09	2020-07-08	
Ducommun technologies	RF Cable	UFA147A- 2362-100100	MFR64639 231029-003	2018-11-12	2019-11-12	
Ducommun technologies	RF Cable	104PEA	218124002	2018-11-12	2019-11-12	
Ducommun technologies	RF Cable	RG-214	1	2018-11-12	2019-11-12	
Ducommun technologies	RF Cable	RG-214	1	2019-11-12	2020-11-12	
Ducommun technologies	RF Cable	RG-214	2	2018-11-12	2019-11-12	
Ducommun technologies	RF Cable	RG-214	2	2019-11-12	2020-11-12	
Ducommun Technologies	Horn Antenna	ARH-4223- 02	1007726-04	2017-12-29	2020-12-28	
Heatsink Required	Amplifier	QLW- 18405536-J0	15964001002	2018-11-12	2019-11-12	
Sinoscite	Band Reject Filter	BSF2402- 2480MN- 0898-001	99632	2018-11-12	2019-11-12	
Rohde & Schwarz	Auto test software	EMC 32	V9.10	NCR	NCR	

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^{*} 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) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

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	Limits for General Population/Uncontrolled Exposure											
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)								
0.3-1.34	614	1.63	*(100)	30								
1.34-30	824/f	2.19/f	$*(180/f^2)$	30								
30-300	27.5	0.073	0.2	30								
300-1500	/	/	f/1500	30								
1500-100,000	/	/	1.0	30								

f = frequency in MHz

* = Plane-wave equivalent power density

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm2)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Frequency			-	conducted ower	Evaluation Distance	Power Density	MPE Limit	
(MHz)	(dBi)	(numeric)	ric) (dBm) (mW)		(cm)	(mW/cm^2)	(mW/cm ²)	
2402-2480	3	2	7	5.01	20	0.002	1	
2412-2462	3	2	15.5	35.48	20	0.01	1	

Note: To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

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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:

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- 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 an integral antenna arrangement, which was permanently attached and the antenna gain is 3 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

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FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

EUT Setup



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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.

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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:

Correction Factor = LISN VDF + Cable Loss + 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:

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Margin = Limit – Corrected Amplitude

Test Results Summary

According to the EUT complied with the FCC Part 15.207,

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

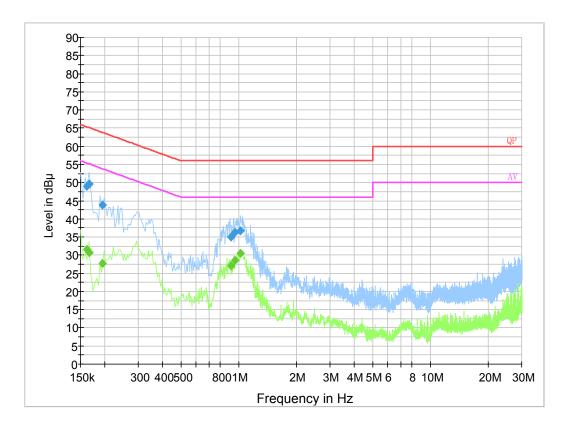
The testing was performed by Kiki Geng on 2019-10-21.

EUT operation mode: Transmitting

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BLE & Wi-Fi Mode: (Worst case at 802.11b mode, Low channel)

AC 120V/60 Hz, Line

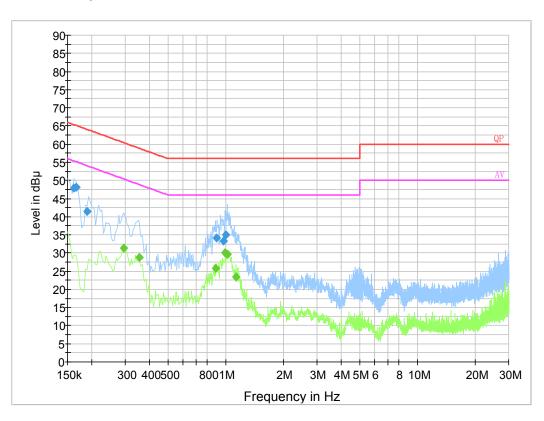


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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.161500	49.0	19.9	65.4	16.4	QP
0.165500	49.6	19.9	65.2	15.6	QP
0.194500	43.8	19.8	63.8	20.0	QP
0.915530	35.1	19.8	56.0	20.9	QP
0.959810	36.4	19.8	56.0	19.6	QP
1.018670	36.8	19.9	56.0	19.2	QP
0.161500	31.5	19.9	55.4	23.9	Ave.
0.165500	30.7	19.9	55.2	24.5	Ave.
0.194500	27.6	19.8	53.8	26.2	Ave.
0.915530	27.0	19.8	46.0	19.0	Ave.
0.959810	28.5	19.8	46.0	17.5	Ave.
1.018670	30.4	19.9	46.0	15.6	Ave.

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AC 120V/60 Hz, Neutral



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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.161500	47.9	19.8	65.4	17.5	QP
0.165500	48.2	19.8	65.2	17.0	QP
0.189500	41.4	19.8	64.1	22.7	QP
0.892470	34.2	19.7	56.0	21.8	QP
0.979090	33.4	19.8	56.0	22.6	QP
1.002730	35.1	19.8	56.0	20.9	QP
0.294000	31.3	19.7	50.4	19.1	Ave.
0.354000	28.7	19.9	48.9	20.2	Ave.
0.886000	25.8	19.7	46.0	20.2	Ave.
0.998000	30.1	19.8	46.0	15.9	Ave.
1.018000	29.5	19.8	46.0	16.5	Ave.
1.138000	23.4	19.8	46.0	22.6	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

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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:



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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.

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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:

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Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
	1MHz	3 MHz	/	PK
Above 1 GHz	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:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - 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:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

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Test Data

Environmental Conditions

Temperature:	24~25 °C
Relative Humidity:	50~52 %
ATM Pressure:	100.9~101.0 kPa

The testing was performed by Zero Yan on 2019-10-28 for below 1GHz, Curry Xiang on 2019-10-29 for above 1GHz (BLE) and Alan He on 2019-11-08 for above 1GHz (WI-FI).

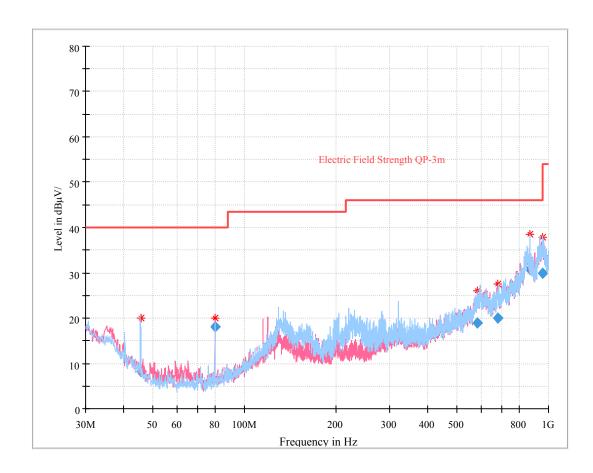
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EUT operation mode: Transmitting

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BLE & Wi-Fi Mode:

30 MHz~1 GHz: (Worst case at 802.11b mode, Low channel)



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Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
45.800125	8.11	399.0	Н	312.0	-17.6	40.00	31.89
79.997500	18.03	102.0	V	149.0	-20.0	40.00	21.97
583.593625	18.84	399.0	V	238.0	-2.8	46.00	27.16
683.643375	20.04	156.0	Н	24.0	-2.0	46.00	25.96
868.090500	30.83	396.0	Н	103.0	6.0	46.00	15.17
958.287875	29.91	316.0	Н	201.0	9.3	46.00	16.09

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1 GHz-25 GHz (BLE):

Enganomov	Re	eceiver	Turntable	Rx An	itenna	Corrected	Corrected	Limit	Mangin			
Frequency (MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	(dBµV/m)	Margin (dB)			
Low Channel (2402 MHz)												
2332.17	28.25	PK	42	2.2	Н	31.64	59.89	74	14.11			
2332.17	15.19	Ave.	42	2.2	Н	31.64	46.83	54	7.17			
2485.50	28.98	PK	124	1.0	Н	32.13	61.11	74	12.89			
2485.50	15.81	Ave.	124	1.0	Н	32.13	47.94	54	6.06			
4804.00	45.47	PK	297	1.3	Н	5.40	50.87	74	23.13			
4804.00	37.66	Ave.	297	1.3	Н	5.40	43.06	54	10.94			
			Middle C	hannel	(2440 N	MHz)		_				
4880.00	44.71	PK	216	2.2	Н	6.43	51.14	74	22.86			
4880.00	35.02	Ave.	216	2.2	Н	6.43	41.45	54	12.55			
			High Ch	nannel (2	2480 M	Hz)						
2386.47	28.14	PK	213	1.9	Н	31.87	60.01	74	13.99			
2386.47	15.32	Ave.	213	1.9	Н	31.87	47.19	54	6.81			
2483.59	28.66	PK	337	2.5	Н	32.13	60.79	74	13.21			
2483.59	15.73	Ave.	337	2.5	Н	32.13	47.86	54	6.14			
4960.00	45.67	PK	197	1.5	Н	6.95	52.62	74	21.38			
4960.00	36.09	Ave.	197	1.5	Н	6.95	43.04	54	10.96			

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1 GHz-25 GHz (Wi-Fi):

802.11b Mode:

Емодионом	Re	ceiver	Turntable	Rx An	tenna	Corrected	Corrected	Limit	Mongin			
Frequency (MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBμV/m)	(dBµV/m)	Margin (dB)			
Low Channel (2412 MHz)												
2346.53	28.33	PK	248	1.7	Н	31.64	59.97	74	14.03			
2346.53	13.67	Ave.	248	1.7	Н	31.64	45.31	54	8.69			
2497.91	28.34	PK	65	2.2	Н	32.13	60.47	74	13.53			
2497.91	13.83	Ave.	65	2.2	Н	32.13	45.96	54	8.04			
4824.00	46.11	PK	261	1.2	Н	6.28	52.39	74	21.61			
4824.00	37.56	Ave.	261	1.2	Н	6.28	43.84	54	10.16			
			Middle C	Channel	(2437N	(IHz)						
4874.00	44.49	PK	340	2.1	Н	6.76	51.25	74	22.75			
4874.00	36.01	Ave.	340	2.1	Н	6.76	42.77	54	11.23			
			High Ch	annel (2	2462 M	Hz)						
2381.72	28.51	PK	43	2.4	Н	31.87	60.38	74	13.62			
2381.72	14.42	Ave.	43	2.4	Н	31.87	46.29	54	7.71			
2483.99	29.13	PK	204	1.8	Н	32.13	61.26	74	12.74			
2483.99	15.22	Ave.	204	1.8	Н	32.13	47.35	54	6.65			
4924.00	45.53	PK	234	2.1	Н	6.76	52.29	74	21.71			
4924.00	36.75	Ave.	234	2.1	Н	6.76	43.51	54	10.49			

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802.11g Mode:

Fraguanay	Re	ceiver	Turntable	Rx An	tenna	Corrected	Corrected	Limit	Margin			
Frequency (MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	(dBµV/m)	(dB)			
Low Channel (2412 MHz)												
2389.94	29.35	PK	168	2.1	Н	31.87	61.22	74	12.78			
2389.94	15.5	Ave.	168	2.1	Н	31.87	47.37	54	6.63			
2494.62	29.14	PK	11	1.5	Н	32.13	61.27	74	12.73			
2494.62	15.02	Ave.	11	1.5	Н	32.13	47.15	54	6.85			
4824.00	48.64	PK	212	2.5	Н	6.28	54.92	74	19.08			
4824.00	37.12	Ave.	212	2.5	Н	6.28	43.40	54	10.60			
			Middle C	Channel	(2437N	(IHz)						
4874.00	48.35	PK	240	2.2	Н	6.76	55.11	74	18.89			
4874.00	36.39	Ave.	240	2.2	Н	6.76	43.15	54	10.85			
			High Ch	nannel (2	2462 M	Hz)						
2354.17	28.18	PK	297	1.9	Н	31.77	59.95	74	14.05			
2354.17	14.6	Ave.	297	1.9	Н	31.77	46.37	54	7.63			
2486.93	28.70	PK	152	1.7	Н	32.13	60.83	74	13.17			
2486.93	15.42	Ave.	152	1.7	Н	32.13	47.55	54	6.45			
4924.00	47.81	PK	150	1.6	Н	6.76	54.57	74	19.43			
4924.00	36.12	Ave.	150	1.6	Н	6.76	42.88	54	11.12			

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802.11n-HT20 Mode:

Емадиамач	Receiver		Turntable	Rx An	tenna	Corrected	Corrected	Limit	Mangin
Frequency (MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	(dBµV/m)	Margin (dB)
Low Channel (2412 MHz)									
2388.40	29.42	PK	112	1.0	Н	31.87	61.29	74	12.71
2388.40	14.83	Ave.	112	1.0	Н	31.87	46.70	54	7.30
2498.72	28.71	PK	252	2.4	Н	32.13	60.84	74	13.16
2498.72	14.69	Ave.	252	2.4	Н	32.13	46.82	54	7.18
4824.00	51.7	PK	147	2.1	Н	6.28	57.98	74	16.02
4824.00	36.73	Ave.	147	2.1	Н	6.28	43.01	54	10.99
			Middle C	Channel	(2437N	(IHz)			
4874.00	51.5	PK	230	2.4	Н	6.76	58.26	74	15.74
4874.00	36.44	Ave.	230	2.4	Н	6.76	43.20	54	10.80
	High Channel (2462 MHz)								
2381.72	28.41	PK	218	2.0	Н	31.87	60.28	74	13.72
2381.72	14.68	Ave.	218	2.0	Н	31.87	46.55	54	7.45
2483.99	29.23	PK	24	1.7	Н	32.13	61.36	74	12.64
2483.99	15.62	Ave.	24	1.7	Н	32.13	47.75	54	6.25
4924.00	51.69	PK	330	1.5	Н	6.76	58.45	74	15.55
4924.00	36.55	Ave.	330	1.5	Н	6.76	43.31	54	10.69

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802.11n-HT40 Mode:

Енадианац	Receiver		Turntable	Rx An	tenna	Corrected	Corrected	Limit	Mangin
Frequency (MHz)	Reading (dBµV)	PK/QP/Ave.	Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Amplitude (dBμV/m)	(dBµV/m)	Margin (dB)
	Low Channel (2422 MHz)								
2340.85	28.86	PK	258	1.6	Н	31.64	60.50	74	13.50
2340.85	14.95	Ave.	258	1.6	Н	31.64	46.59	54	7.41
2497.17	28.41	PK	146	1.2	Н	32.13	60.54	74	13.46
2497.17	15.08	Ave.	146	1.2	Н	32.13	47.21	54	6.79
4844.00	48.59	PK	246	1.3	Н	6.28	54.87	74	19.13
4844.00	35.74	Ave.	246	1.3	Н	6.28	42.02	54	11.98
			Middle C	Channel	(2437N	(Hz)			
4874.00	47.28	PK	183	1.6	Н	6.76	54.04	74	19.96
4874.00	35.2	Ave.	183	1.6	Н	6.76	41.96	54	12.04
	High Channel (2452 MHz)								
2331.12	28.63	PK	154	1.5	Н	31.64	60.27	74	13.73
2331.12	14.87	Ave.	154	1.5	Н	31.64	46.51	54	7.49
2484.95	32.72	PK	264	2.1	Н	32.13	64.85	74	9.15
2484.95	16.99	Ave.	264	2.1	Н	32.13	49.12	54	4.88
4904.00	48.4	PK	141	1.0	Н	6.76	55.16	74	18.84
4904.00	34.54	Ave.	141	1.0	Н	6.76	41.30	54	12.70

Report No.: RSZ190930551-00B

Note:

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

Corrected Amplitude = Corrected Factor + Reading

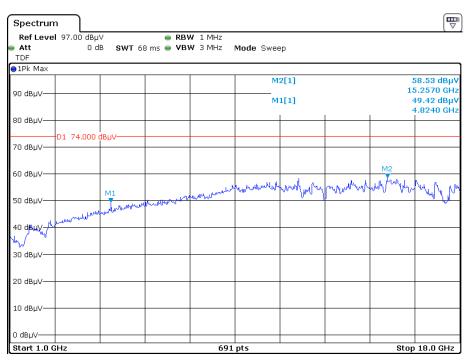
Margin = Limit - Corrected. Amplitude

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.

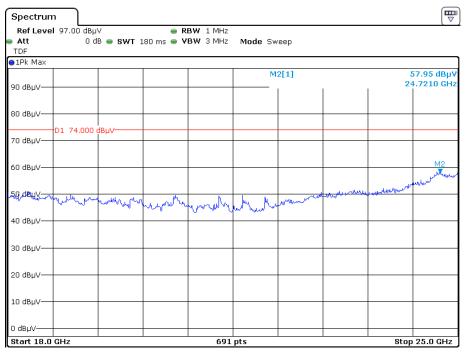
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Pre-scan with 802.11b Mode, Low channel Horizontal

Report No.: RSZ190930551-00B



Date: 8.NOV.2019 20:46:05

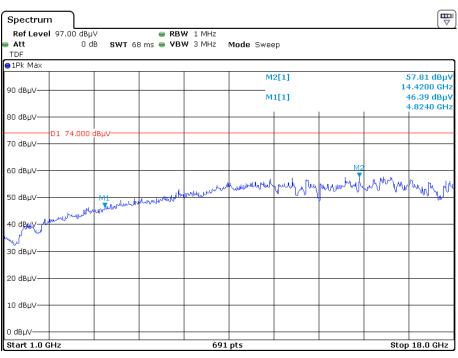


Date: 8.NOV.2019 21:37:52

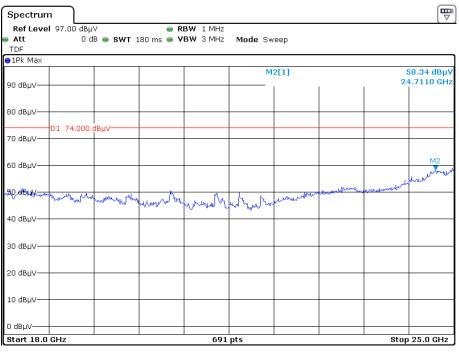
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Vertical

Report No.: RSZ190930551-00B



Date: 8.NOV.2019 20:57:26

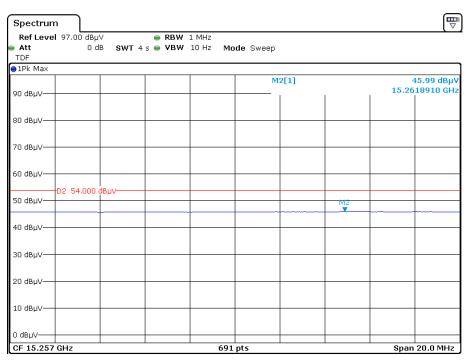


Date: 8.NOV.2019 21:49:48

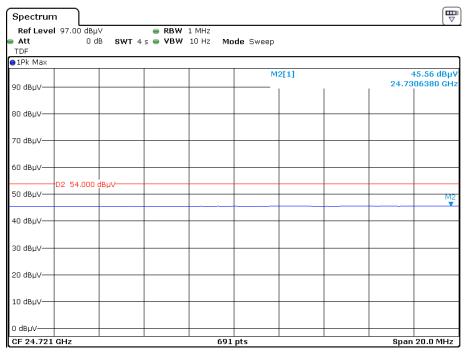
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Pre-scan for Average Horizontal

Report No.: RSZ190930551-00B



Date: 8.NOV.2019 20:51:42

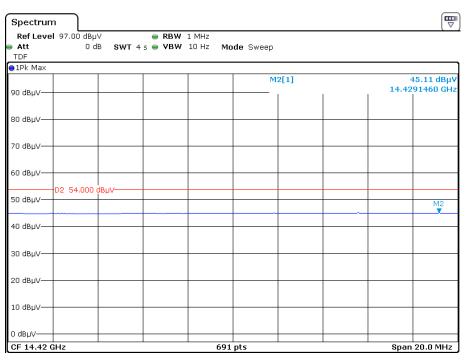


Date: 8.NOV.2019 21:43:22

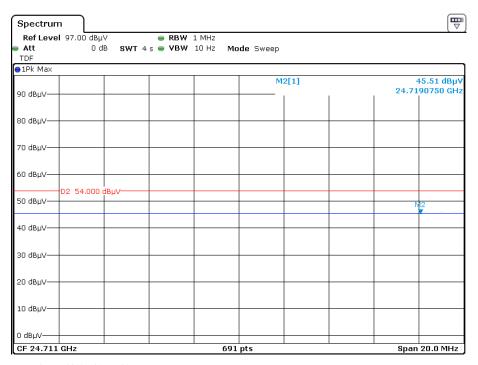
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Vertical

Report No.: RSZ190930551-00B



Date: 8.NOV.2019 21:04:07



Date: 8.NOV.2019 21:55:21

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FCC $\S15.247(a)$ (2) – 6 dB EMISSION BANDWIDTH

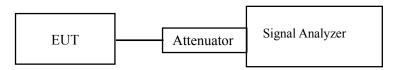
Applicable Standard

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.

Report No.: RSZ190930551-00B

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:	23 ℃	
Relative Humidity:	51 %	
ATM Pressure:	101.0 kPa	

The testing was performed by James Fu on 2019-10-21 and 2019-10-24.

Test Result: Pass.

Please refer to the following table and plots.

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Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)				
	802.11b mode						
Low	2412	9.62	≥500				
Middle	2437	9.62	≥500				
High	2462	10.06	≥500				
	802.11g						
Low	v 2412 15.0		≥500				
Middle	2437	15.13	≥500				
High	2462	15.06	≥500				
	802.11n-HT20 mode						
Low	2412	15.19	≥500				
Middle	2437	15.19	≥500				
High	2462	15.19	≥500				
	802.11n-HT40 mode						
Low	2422	2422 33.97 ≥500					
Middle	2437	35.26	≥500				
High	2452	35.26	≥500				

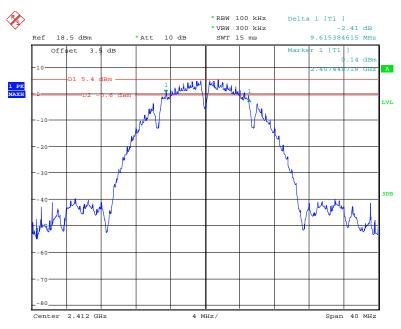
Report No.: RSZ190930551-00B

Channel	Frequency (MHz)	6 dB Emission Bandwidth(MHz)	Limit (kHz)			
BLE mode						
Low	2402	0.708	≥500			
Middle	2440	0.689	≥500			
High	2480	0.702	≥500			

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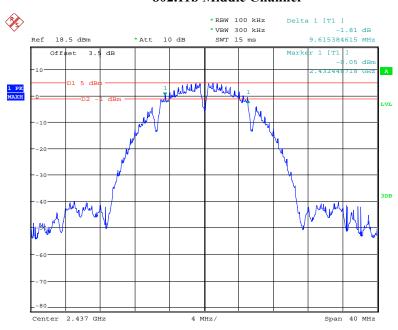
Report No.: RSZ190930551-00B

802.11b Low Channel



Date: 24.OCT.2019 19:47:37

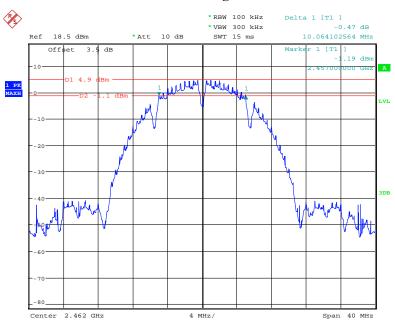
802.11b Middle Channel



Date: 24.OCT.2019 19:48:49

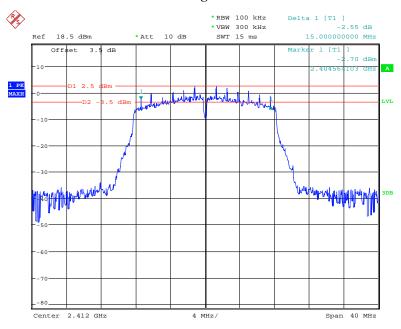
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802.11b High Channel



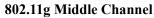
Date: 24.OCT.2019 19:49:43

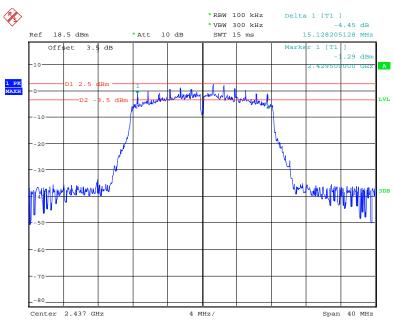
802.11g Low Channel



Date: 24.OCT.2019 19:55:20

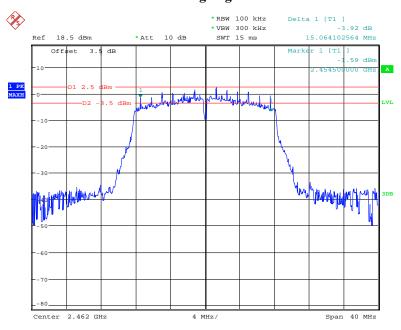
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Date: 24.OCT.2019 19:54:10

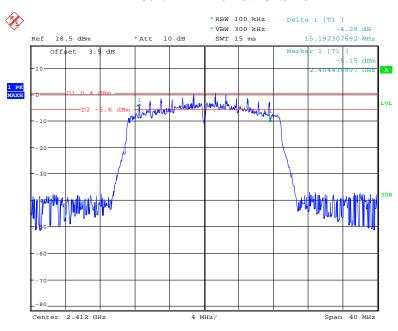
802.11g High Channel



Date: 24.OCT.2019 19:51:55

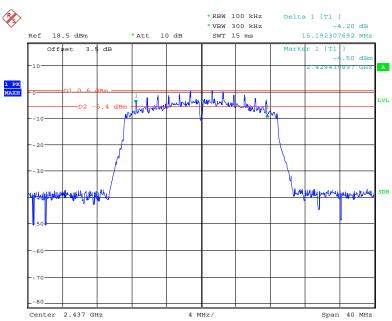
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802.11n-HT20 Low Channel



Date: 24.OCT.2019 19:57:49

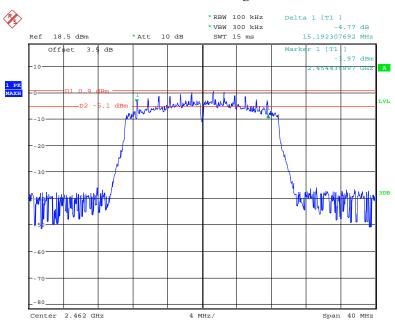
802.11n-HT20 Middle Channel



Date: 24.OCT.2019 20:00:08

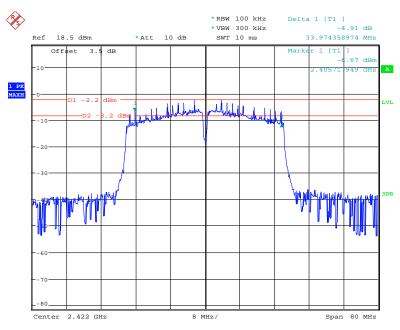
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802.11n-HT20 High Channel



Date: 24.OCT.2019 20:01:45

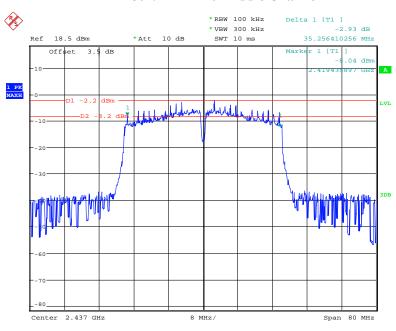
802.11n-HT40 Low Channel



Date: 24.OCT.2019 20:02:59

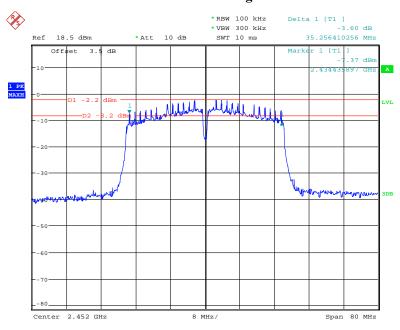
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802.11n-HT40 Middle Channel



Date: 24.OCT.2019 20:03:58

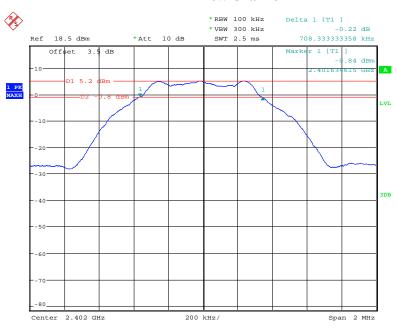
802.11n-HT40 High Channel



Date: 24.OCT.2019 20:06:40

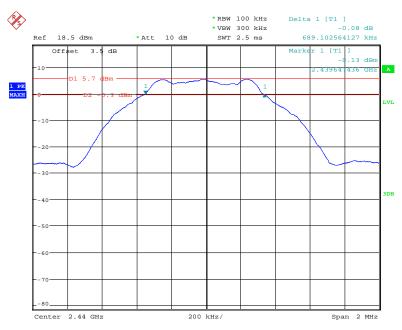
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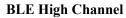
Date: 21.OCT.2019 19:07:49

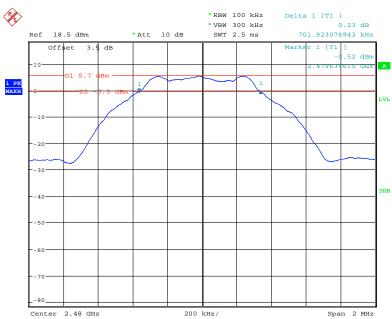
BLE Middle Channel



Date: 21.OCT.2019 19:09:35

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Date: 21.OCT.2019 19:12:59

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

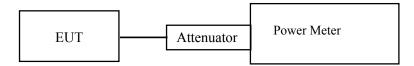
Applicable Standard

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.

Report No.: RSZ190930551-00B

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:	23 ℃	
Relative Humidity:	51 %	
ATM Pressure:	100.0 kPa	

The testing was performed by James Fu on 2019-10-24.

EUT operation mode: Transmitting

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Wi-Fi mode

Report No.: RSZ190930551-00B

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Max Conducted Average Output Power (dBm)	Limit (dBm)
		802.11b		
Low	2412	17.76	14.84	30
Middle	2437	18.12	15.00	30
High	2462	17.95	15.06	30
	802.11g			
Low	2412	19.78	14.06	30
Middle	2437	19.76	14.02	30
High	2462	19.96	14.24	30
	802.11n HT20			
Low	2412	17.87	11.94	30
Middle	2437	17.85	11.95	30
High	2462	17.93	12.03	30
802.11n HT40				
Low	2422	17.16	11.73	30
Middle	2437	17.34	11.81	30
High	2452	17.42	11.98	30

BLE mode

Channel	Frequency (MHz)	Max Peak Output Power (dBm)	Limit (dBm)	Result
Low	2402	6.36	30	Pass
Middle	2440	6.77	30	Pass
High	2480	6.75	30	Pass

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

Report No.: RSZ190930551-00B

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:	23 ℃	
Relative Humidity:	51 %	
ATM Pressure:	101.0 kPa	

The testing was performed by James Fu on 2019-10-21 and 2019-10-24.

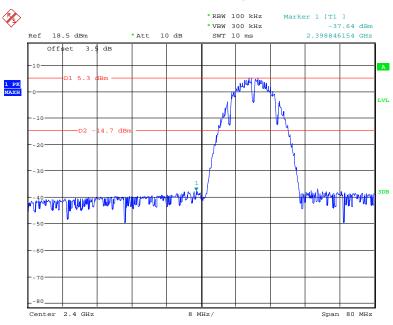
EUT operation mode: Transmitting

Test Result: Compliance

Please refer to the following plots.

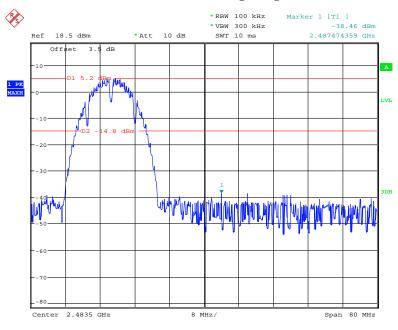
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802.11b: Band Edge, Left Side



Date: 24.OCT.2019 20:36:18

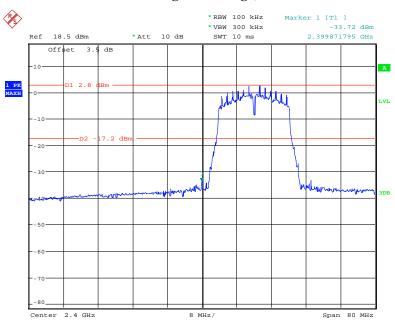
802.11b: Band Edge, Right Side



Date: 24.OCT.2019 20:39:11

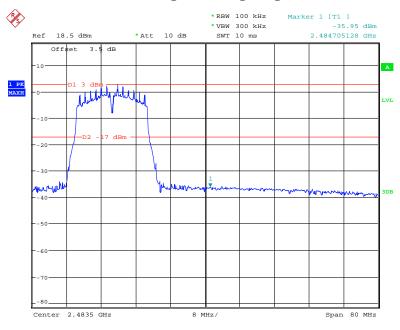
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802.11g: Band Edge, Left Side



Date: 24.OCT.2019 20:31:45

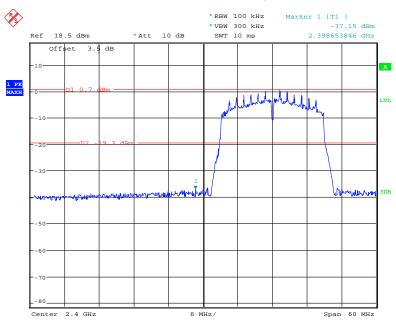
802.11g: Band Edge, Right Side



Date: 24.OCT.2019 20:28:11

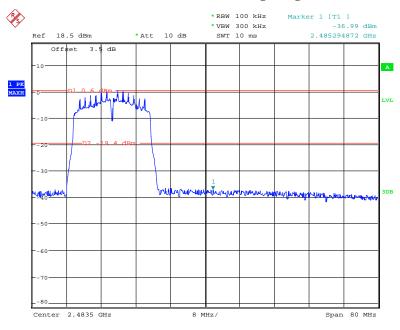
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Date: 24.OCT.2019 20:20:18

802.11n-HT20: Band Edge, Right Side

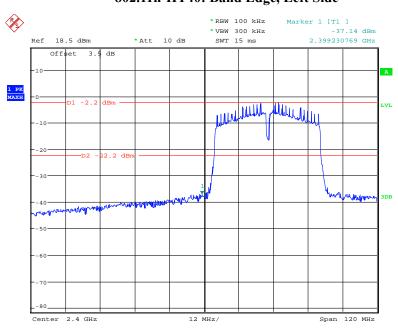


Date: 24.OCT.2019 20:25:23

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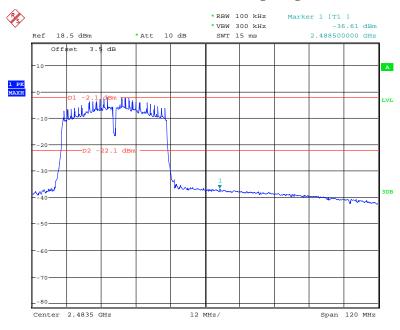
802.11n-HT40: Band Edge, Left Side

Report No.: RSZ190930551-00B



Date: 24.OCT.2019 20:15:08

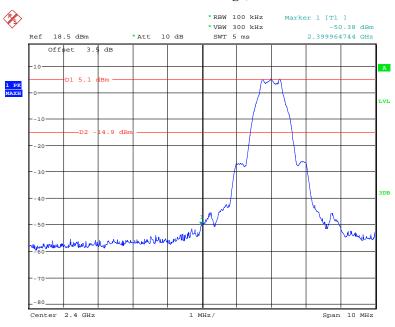
802.11n-HT40: Band Edge, Right Side



Date: 24.OCT.2019 20:12:46

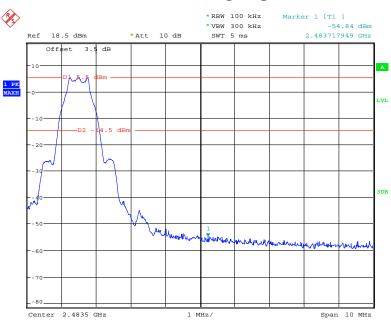
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BLE: Band Edge, Left Side



Date: 21.0CT.2019 19:14:39

BLE: Band Edge, Right Side



Date: 21.OCT.2019 19:13:59

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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.

Report No.: RSZ190930551-00B

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: $3kHz \le RBW \le 100 \text{ kHz}$.
- 3. Set the VBW $> 3 \times RBW$.
- 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:	23 ℃	
Relative Humidity:	51 %	
ATM Pressure:	101.0 kPa	

The testing was performed by James Fu on 2019-10-21 to 2019-11-25.

EUT operation mode: Transmitting

Test Result: Pass

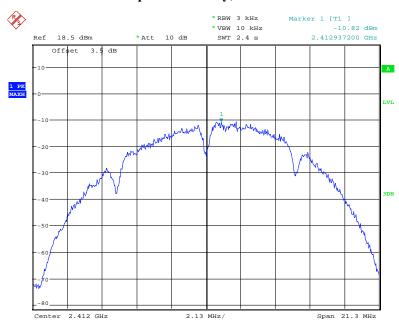
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	_				
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)		
	802.11b	mode			
Low	2412	-10.82	≤8		
Middle	2437	-10.78	≤8		
High	2462	-10.51	≤8		
	802.11g mode				
Low	2412	-14.04	≤8		
Middle	2437	-14.84	≤8		
High	2462	-12.39	≤8		
	802.11n-H7	Γ20 mode			
Low	2412	-14.76	≤8		
Middle	2437	-15.76	≤8		
High	2462	-15.53	≤8		
	802.11n-HT40 mode				
Low	2422	-16.69	≤8		
Middle	2437	-17.55	≤8		
High	2452	-18.62	≤8		
BLE mode					
Low	2402	-9.14	≤8		
Middle	2440	-8.70	≤8		
High	2480	-8.83	≤8		

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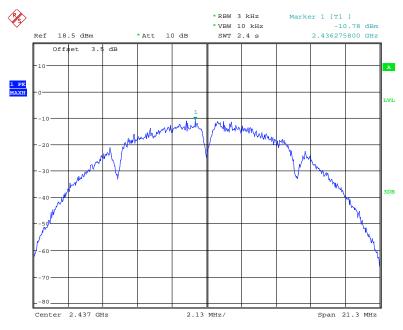
Power Spectral Density, 802.11b Low Channel

Report No.: RSZ190930551-00B



Date: 25.NOV.2019 10:47:37

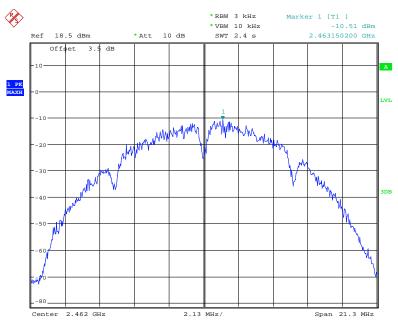
Power Spectral Density, 802.11b Middle Channel



Date: 25.NOV.2019 10:48:45

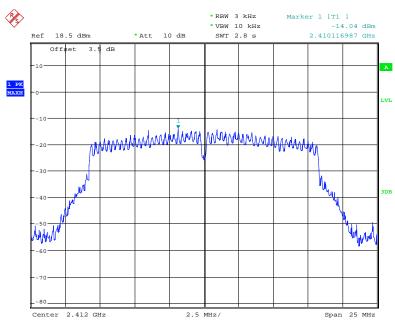
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Power Spectral Density, 802.11b High Channel



Date: 25.NOV.2019 10:51:01

Power Spectral Density, 802.11g Low Channel

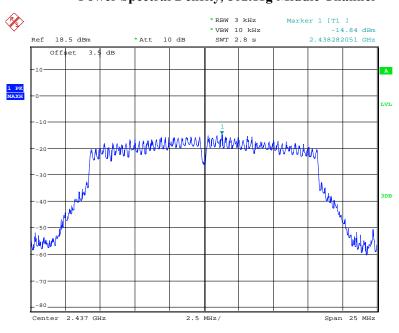


Date: 24.OCT.2019 21:15:33

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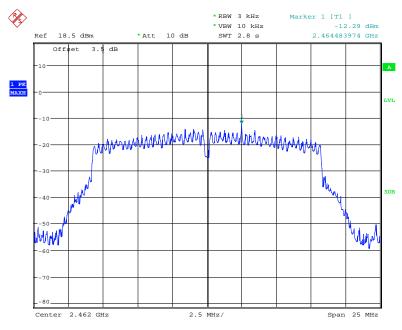
Power Spectral Density, 802.11g Middle Channel

Report No.: RSZ190930551-00B



Date: 24.OCT.2019 21:13:28

Power Spectral Density, 802.11g High Channel

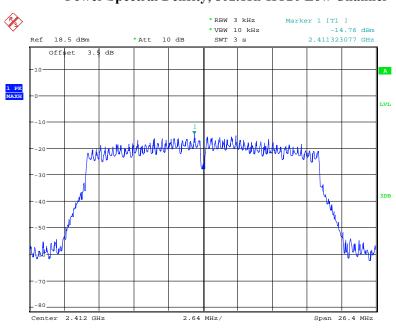


Date: 24.OCT.2019 21:12:27

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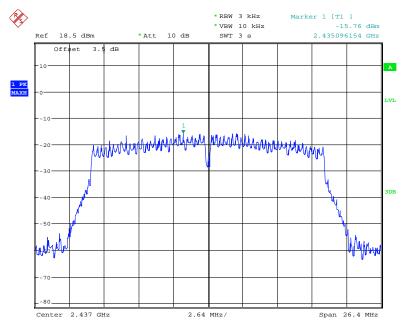
Power Spectral Density, 802.11n-HT20 Low Channel

Report No.: RSZ190930551-00B



Date: 24.OCT.2019 21:06:39

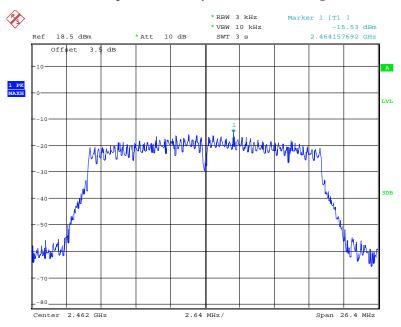
Power Spectral Density, 802.11n-HT20 Middle Channel



Date: 24.OCT.2019 21:09:02

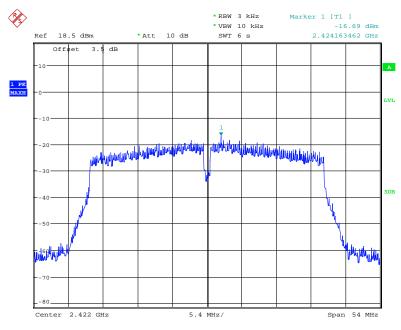
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Power Spectral Density, 802.11n-HT20 High Channel



Date: 24.OCT.2019 21:10:35

Power Spectral Density, 802.11n-HT40 Low Channel

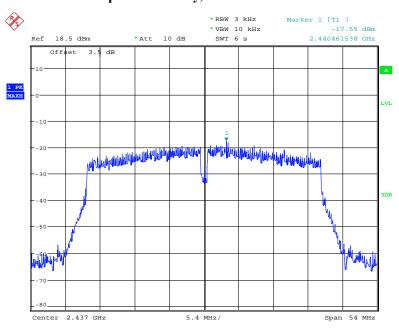


Date: 24.OCT.2019 21:31:49

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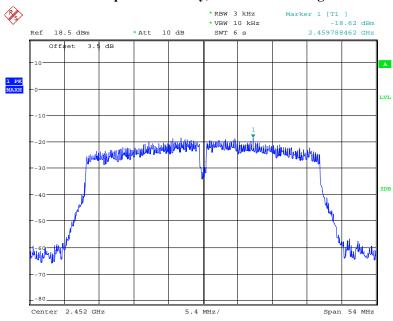
Power Spectral Density, 802.11n-HT40 Middle Channel

Report No.: RSZ190930551-00B



Date: 24.OCT.2019 21:35:27

Power Spectral Density, 802.11n-HT40 High Channel

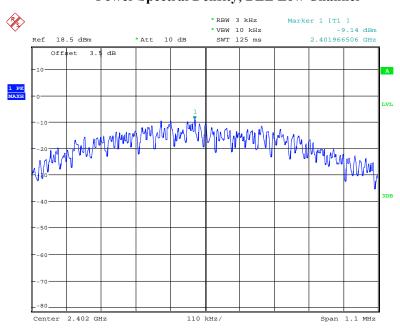


Date: 24.OCT.2019 21:40:59

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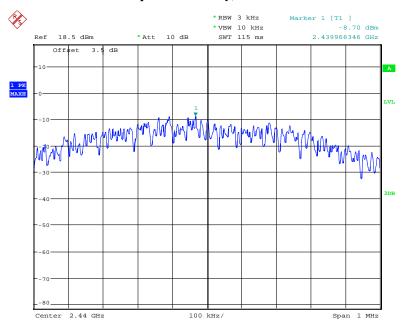
Power Spectral Density, BLE Low Channel

Report No.: RSZ190930551-00B



Date: 21.0CT.2019 19:19:16

Power Spectral Density, BLE Middle Channel

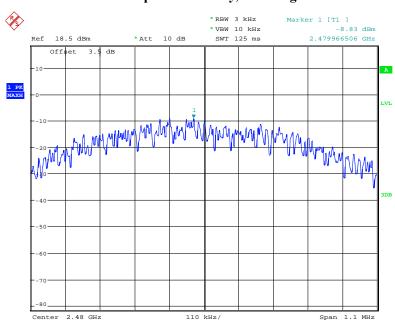


Date: 21.0CT.2019 19:19:57

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Power Spectral Density, BLE High Channel

Report No.: RSZ190930551-00B



Date: 21.OCT.2019 19:20:27

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

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