

FCC PART 15.247 TEST REPORT

For

Sichuan Weiyu Electric Co.,Ltd

No.1, Tumenjiang Road (C2# Building, Tianyu Science & Technology Park),
Deyang, Sichuan, China

FCC ID: 2AZGWM3P-2104

Report Type: Original Report	Product Name: LEVEL 2 AC EV CHARGER
Report Number: RSC210316004-0D	
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Reviewed By: Sula Huang	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	Sichuan Weiyu Electric Co.,Ltd
Product	LEVEL 2 AC EV CHARGER
Tested Model	M3P140U
Multiple Model	M3P132U
FCC ID	2AZGWM3P-2104
Frequency*	2.4G Wi-Fi: 2412-2462MHz (802.11b/g/n20)
Modulation Type*	802.11b: DSSS 802.11g/n20: OFDM
RF Output Power	802.11b:14.26 dBm 802.11g:19.64 dBm 802.11n20:19.43 dBm
Voltage Range	AC 177-264V, 47-63Hz
Test Voltage	AC240V, 60Hz
Measure approximately	309 mm (L) x 215 mm (W) x 114 mm (H)
Sample serial number	210316004/01 (assigned by the BACL, Chengdu)
Sample/EUT Status	The test sample was in good condition and received: 2021-03-16

Note: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Objective

This report is prepared on behalf of **Sichuan Weiyu Electric Co.,Ltd** in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communications Commission's rules.

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

Related Submittal(s)/Grant(s)

FCC Part 15C DXX submissions with FCC ID: 2AZGWM3P-2104

Measurement Uncertainty

Item			Uncertainty
AC power line conducted emission			2.24 dB
Radiated Emission(Field Strength)	30MHz-200MHz	H	4.47 dB
		V	4.73 dB
	200MHz-1GHz	H	4.87 dB
		V	5.93 dB
	1GHz-6GHz		4.51 dB
	6GHz-18GHz		4.49 dB
	18GHz-40GHz		5.48 dB
RF Frequency			$\pm 0.86\times 10^{-7}$
RF output power, conducted			± 0.61 dB
Occupied Bandwidth			$\pm 5\%$
Power Spectrum Density, conducted			± 2.5 dB
Spurious emissions, conducted			± 2.5 dB
Humidity			$\pm 5\%$
Temperature			$\pm 1^{\circ}\text{C}$
Voltage(AC,<10kHz)			$\pm 1\%$
Time			$\pm 1\%$

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the corresponding inclusion factor K when the inclusion probability is about 95%.

Test Methodology

All measurements contained in this report were conducted with:

1. ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.
2. KDB558074 D01 DTS Meas Guidance v05r02.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Chengdu) to collect test data is located No.5040, Huilongwan Plaza, No. 1, Shawan Road, Jinniu District, Chengdu, Sichuan, China.

Bay Area Compliance Laboratories Corp. (Chengdu) lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4324.01) and the FCC designation No. CN1186 under the FCC KDB 974614 D01. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

SYSTEM TEST CONFIGURATION

Description of Test Configuration*

The system was configured in testing mode, which was provided by manufacturer.

For Wi-Fi mode, 802.11b, 802.11g, and 802.11n-HT20 mode, 11 channels are provided to testing:

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

EUT were tested with Channel 1, 6 and 11.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software*

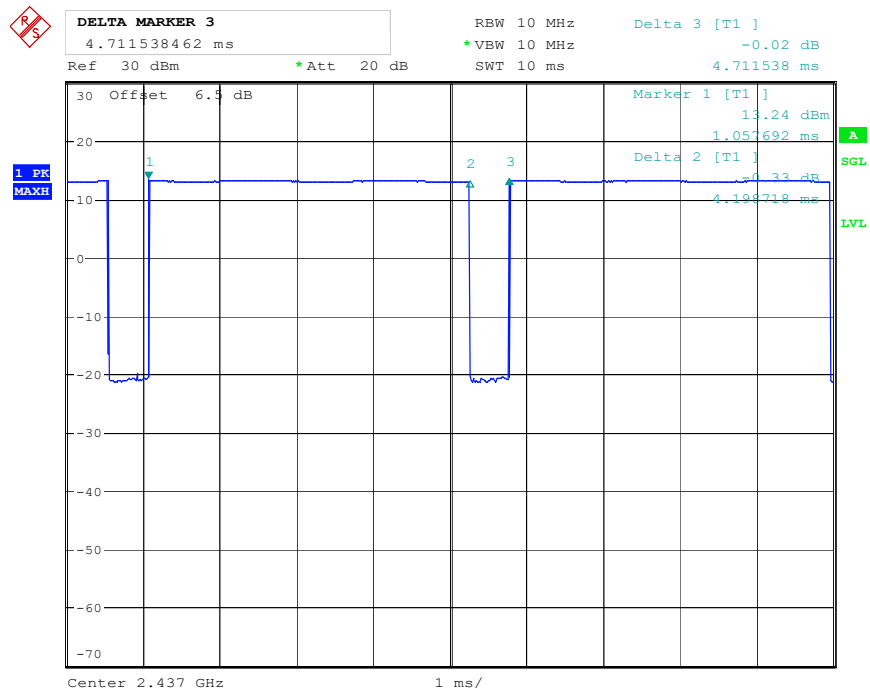
The setting by the software built-in the device as following table:

Test Mode	Test Software Version	RF test tool		
802.11b	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	1Mbps	1Mbps	1Mbps
	Power Level	30	30	30
802.11g	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	6Mbps	6Mbps	6Mbps
	Power Level	10	10	10
802.11n-HT20	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	MCS0	MCS0	MCS0
	Power Level	10	10	10

Duty Cycle information is below:

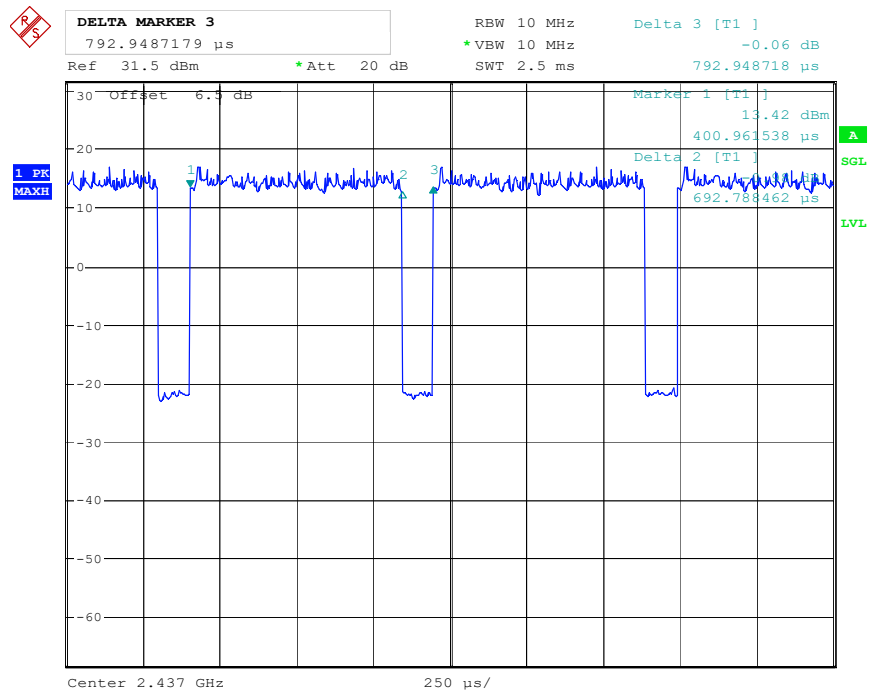
Mode	T _{on}	T _p	Duty Cycle	Duty Cycle Factor(dB)
	(ms)	(ms)	(%)	
802.11b	4.199	4.712	89.11	0.50
802.11g	0.693	0.793	87.39	0.59
802.11n20	0.657	0.757	86.79	0.62

802.11b



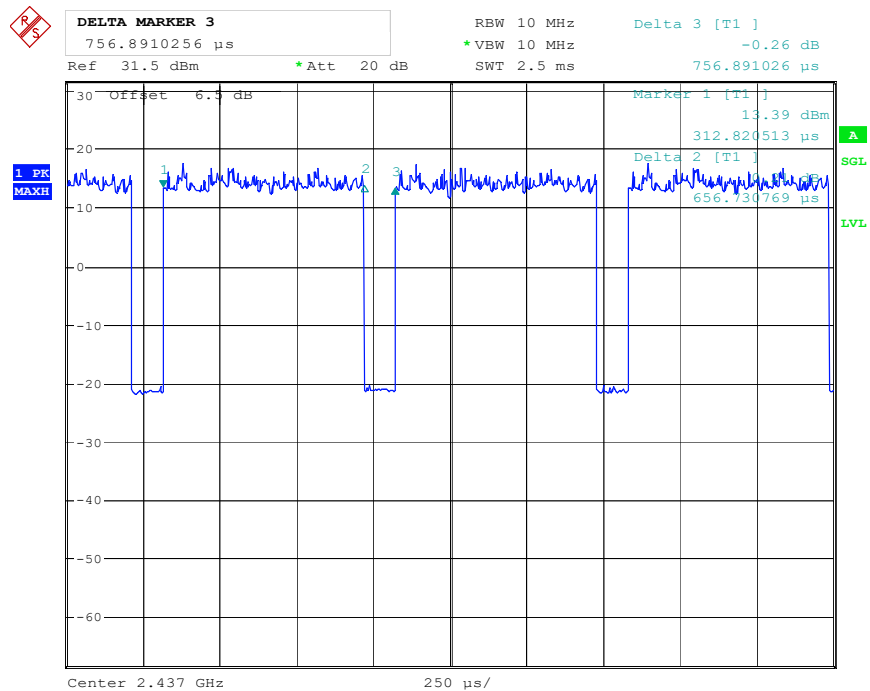
Date: 18.MAR.2021 16:12:35

802.11g



Date: 18.MAR.2021 16:12:14

802.11n-HT20



Date: 18.MAR.2021 16:13:06

Support Equipment List and Details

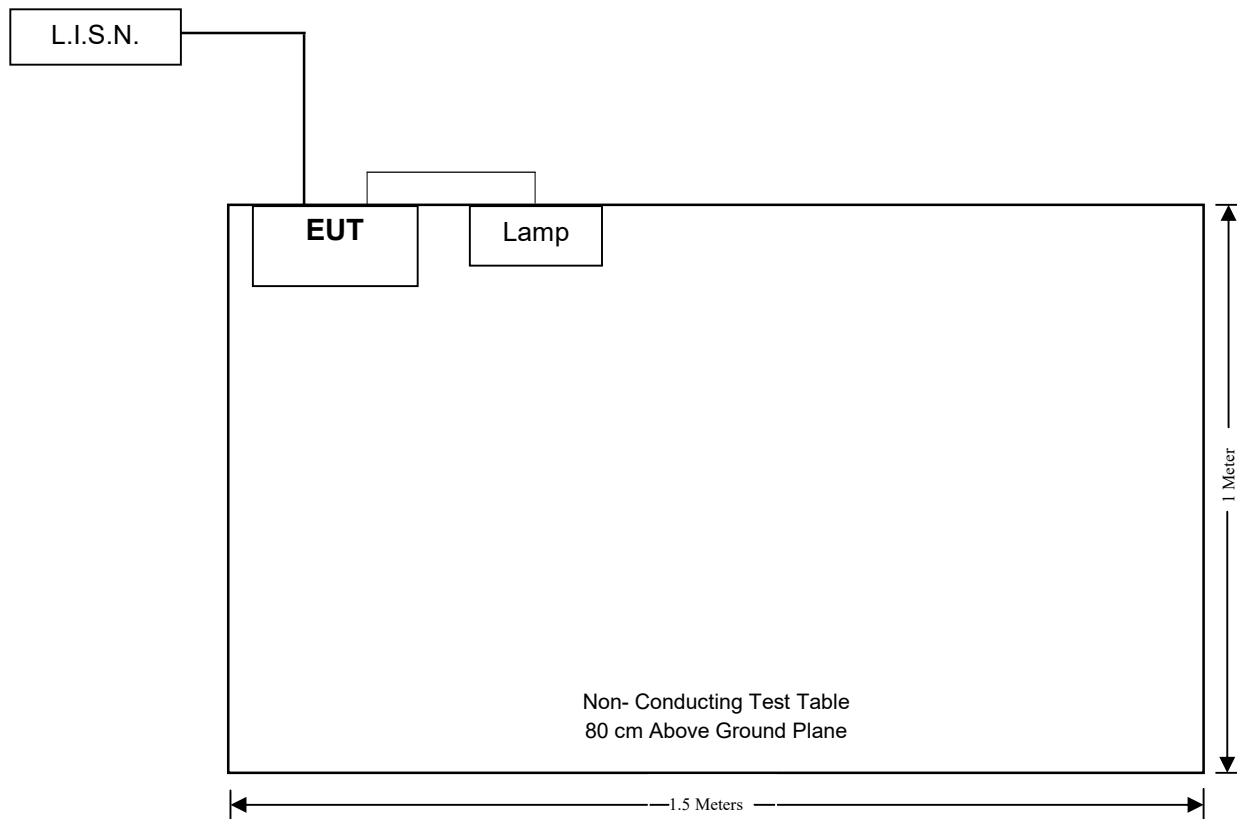
Manufacturer	Description	Model	Serial Number
PHILIPS	Load(Lamp)	Unknown	Unknown

External I/O Cable

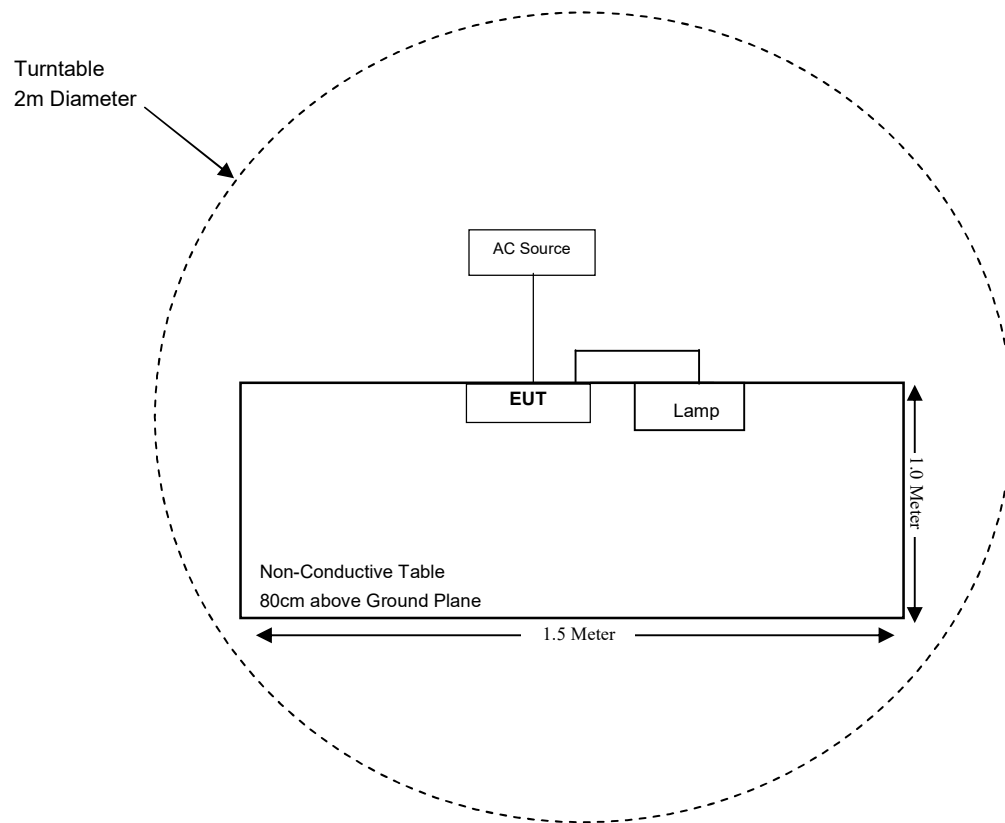
Cable Description	Length (m)	From	To
Unshielded AC Power Cable	5.0	EUT	Load(Lamp)

Block Diagram of Test Setup

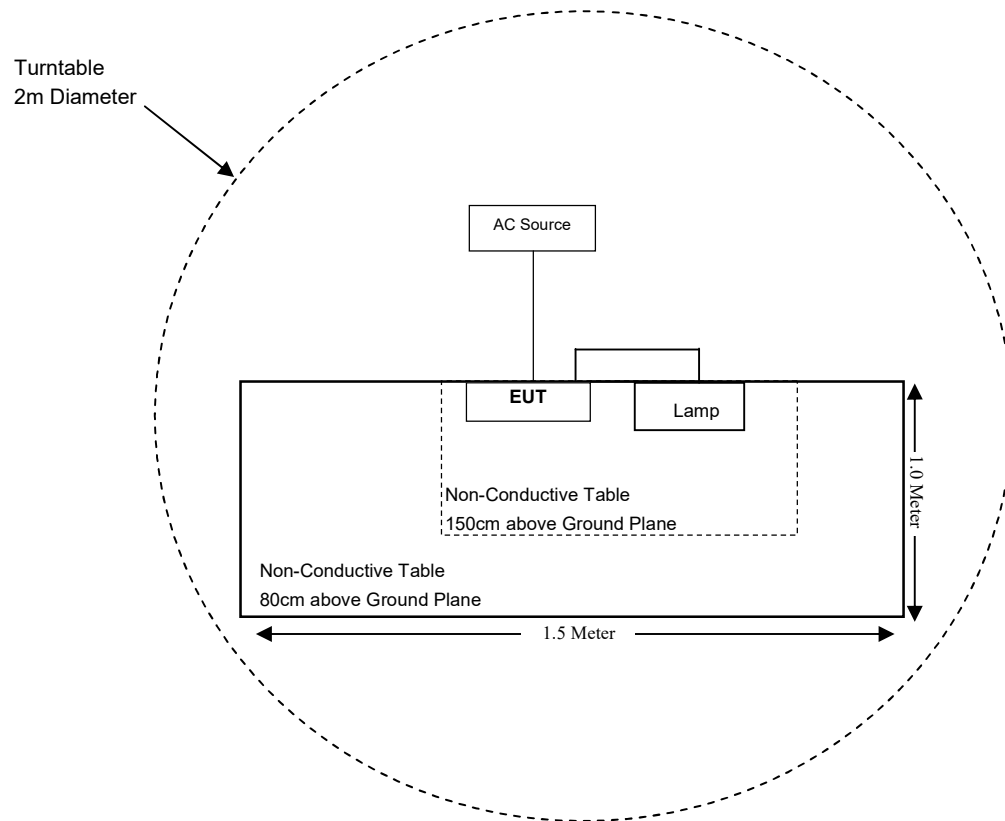
For Conducted Emissions:



For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.247 & §1.1310 & §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

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

TEST EQUIPMENTS LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emission					
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2020-04-13	2021-04-12
ROHDE&SCHWARZ	L.I.S.N.	ENV216	3560.6550.16	2021-01-13	2022-01-12
HP	RF Limiter	11947A	3107A01270	2020-08-13	2021-08-12
Unknown	Conducted Cable	L-E-003	000003	2020-08-04	2021-08-03
Rohde & Schwarz	EMC32	EMC32	V 8.52.0	NCR	NCR
Radiated Emission					
EMCT	Semi-Anechoic Chamber	966	001	2020-07-24	2025-07-23
SONOMA INSTRUMENT	Pre-Amplifier	310 N	186684	2020-08-10	2021-08-09
SUNOL SCIENCES	Broadband Antenna	JB3	A121808	2019-12-10	2022-12-09
Rohde & Schwarz	EMI Test Receiver	ESR3	102456	2020-04-13	2021-04-12
Unknown	RF Cable (Below 1GHz)	L-E-005	000005	2020-09-04	2021-09-03
Unknown	RF Cable (Below 1GHz)	T-E128	000128	2020-10-16	2021-10-15
UTIFLEX	RF Cable (Below 1GHz)	T-E237	233522-001	2020-07-17	2021-07-16
Rohde & Schwarz	Spectrum Analyzer	FSU26	200835	2020-04-13	2021-04-12
EMCO	Horn Antenna	3115	2192	2019-09-25	2021-09-24
Mini-circuits	Pre-Amplifier	ZVA-183-S+	771001215	2020-09-20	2021-09-19
MICRO-TRONICS	2.4GHz Notch Filter	BRM50702	G396	2021-02-21	2022-02-20
SUHNER+HUBER	RF Cable (Above 1GHz)	SUCOFLEX 104PE	93533/4PE	2020-05-18	2021-05-17
IW-MICROWAVE	RF Cable (Above 1GHz)	SPS-2301	111503	2020-08-31	2021-08-30
Rohde & Schwarz	EMI Test Receiver	ESIB 40	100215	2020-04-13	2021-04-12
EM Electronics	Pre-Amplifier	EM18G40	060725	2020-07-23	2021-07-22
A.H. Systems, Inc	Horn Antenna	SAS-574	510	2019-09-02	2021-09-01
HUBER+SUHNER	RF Cable (Above 1GHz)	T-E222	2551/2	2020-07-18	2021-07-17
ORIDA RF Labs	RF Cable (Above 1GHz)	T-E210	1042	2020-07-18	2021-07-17
Rohde & Schwarz	EMC32	EMC32	V9.10.00	NCR	NCR

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	100113	2020-04-13	2021-04-12
Agilent	USB power sensor	U2021XA	MY53320008	2021-01-13	2022-01-12
Mini-circuits	6dB Attenuator	BW-S6W5+	00433	2020-09-10	2021-09-09
Unknown	RF Coaxial Cable	SMA-IPEX	Unknown	Each Time	

FCC §15.247 & §1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE

Applicable Standard

According to subpart 15.247 and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) 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;

According to §1.1310 and §2.1091 RF exposure is calculated.

Per 447498 D01 General RF Exposure Guidance v06, simultaneous transmission MPE test exclusion applies when the sum of the MPE for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0.

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = PG/4\pi R^2$$

Where:

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);

Radio Mode	Frequency Range (MHz)	Antenna Gain*		Tune-up Conducted Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
Wi-Fi	2412-2462	5.0	3.16	20.0	100.00	20	0.063	1.0

Result: The device meets FCC MPE at ≥20 cm distance.

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.

Antenna Connector Construction*

The EUT has one internal Wi-Fi antenna, fulfill the requirement of this section. Please refer to the EUT photos.

Antenna	Manufacturer	Model Number	Antenna Gain (Max)	Impedance (Ohm)	Antenna Connector	Antenna Type
2.4G Wi-Fi	SHENZHEN BJL WIRELESS TECHNOLOGY CO.,LTD.	BJL-PW2405-3000	5.0dBi	50Ω	IPEX	FPC

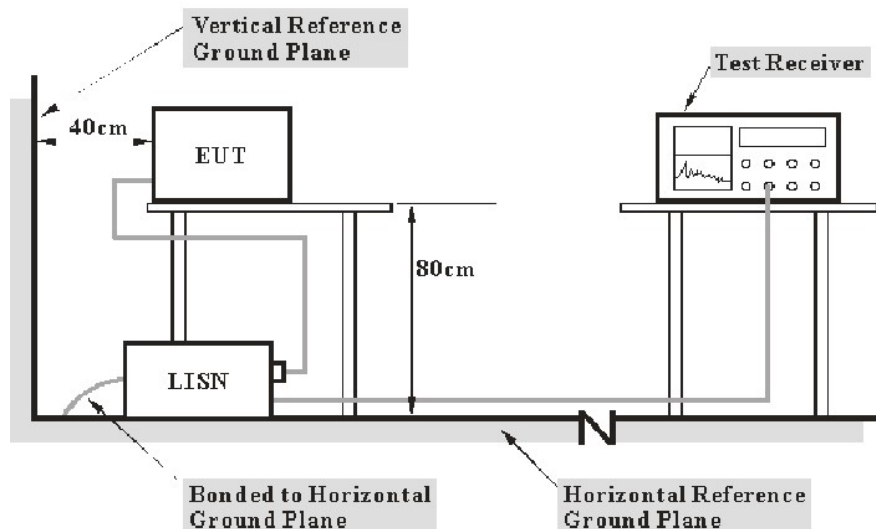
Result: Compliance

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 first L.I.S.N.

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

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

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

$$C_f = A_C + VDF$$

Herein,

V_C (cord. Reading): corrected voltage amplitude

V_R : reading voltage amplitude

A_C : attenuation caused by cable loss

VDF: voltage division factor of AMN

C_f : Correction Factor

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

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

Test Data

Test Environment Conditions

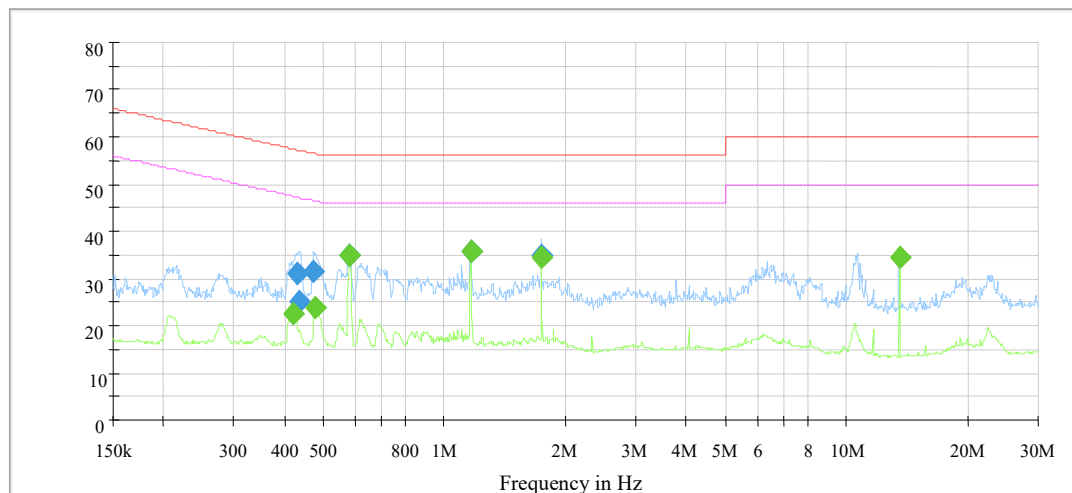
Temperature:	22 °C
Relative Humidity:	49 %
ATM Pressure:	95.6 kPa

The testing was performed by Winfred Wang on 2021-03-31.

Test Mode: Transmitting

802.11g Low Channel-Worst Case

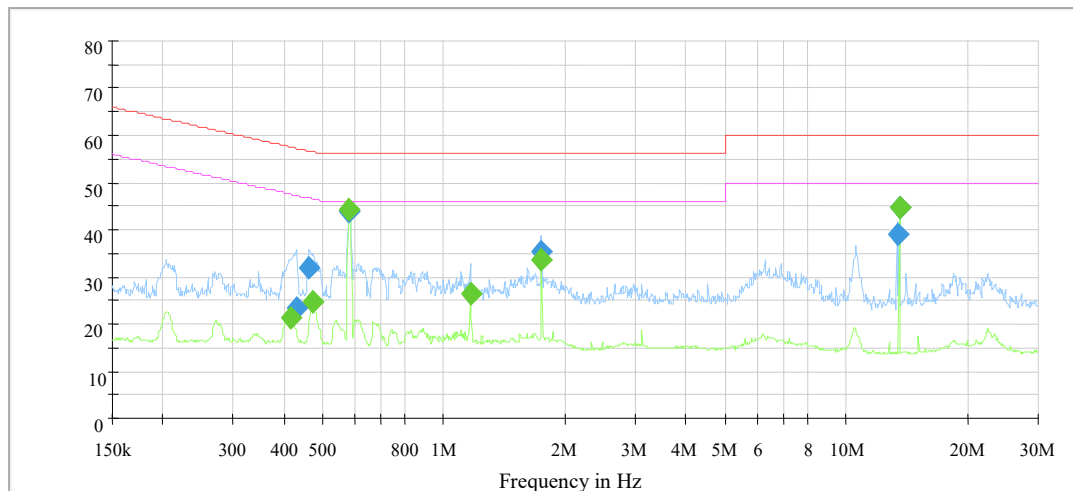
Line 1 :



Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.429666	31.0	300.0	9.000	L1	19.6	26.3	57.3
0.436143	24.9	300.0	9.000	L1	19.6	32.2	57.1
0.474736	31.3	300.0	9.000	L1	19.6	25.1	56.4
0.582452	35.0	300.0	9.000	L1	19.6	21.0	56.0
1.165046	35.9	300.0	9.000	L1	19.6	20.1	56.0
1.744994	34.7	300.0	9.000	L1	19.6	21.3	56.0

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.421179	22.8	300.0	9.000	L1	19.6	24.7	47.4
0.479495	23.6	300.0	9.000	L1	19.6	22.7	46.3
0.582452	34.8	300.0	9.000	L1	19.6	11.2	46.0
1.165046	35.6	300.0	9.000	L1	19.6	10.4	46.0
1.744994	34.6	300.0	9.000	L1	19.6	11.4	46.0
13.553308	34.6	300.0	9.000	L1	19.6	15.4	50.0

Line 2:



Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.429666	23.5	300.0	9.000	L2	19.6	33.8	57.3
0.463043	31.8	300.0	9.000	L2	19.6	24.8	56.6
0.582452	43.8	300.0	9.000	L2	19.6	12.2	56.0
1.753719	35.4	300.0	9.000	L2	19.6	20.6	56.0
13.418785	38.5	300.0	9.000	L2	19.6	21.5	60.0
13.553308	44.5	300.0	9.000	L2	19.6	15.5	60.0

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.414924	21.3	300.0	9.000	L2	19.6	26.2	47.5
0.470024	24.7	300.0	9.000	L2	19.6	21.8	46.5
0.582452	44.0	300.0	9.000	L2	19.6	2.0	46.0
1.165046	26.2	300.0	9.000	L2	19.6	19.8	46.0
1.744994	33.6	300.0	9.000	L2	19.6	12.4	46.0
13.553308	44.7	300.0	9.000	L2	19.6	5.3	50.0

Note:

- 1) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
The corrected factor has been input into the transducer of the test software.
- 2) Corrected Amplitude = Reading + Correction Factor
- 3) Margin = Limit – Corrected Amplitude

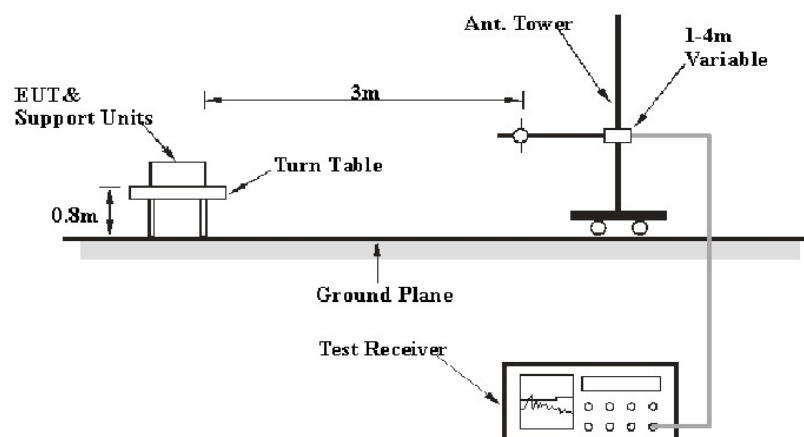
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

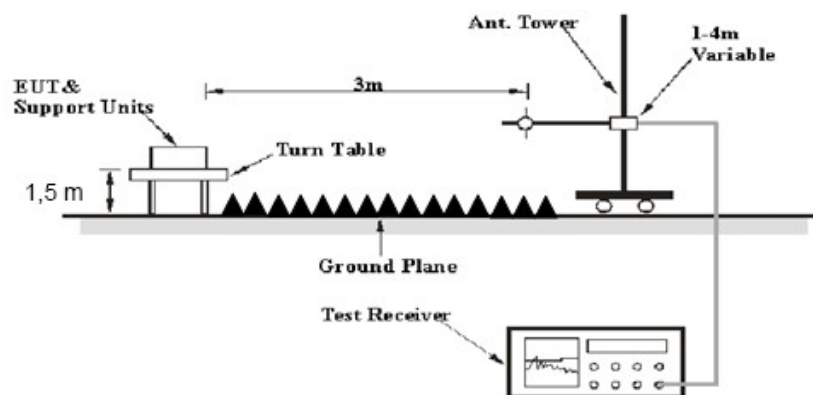
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber 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.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

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 Setup was set with the following configurations:

Frequency Range	RBW	Video B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	QP
Above 1 GHz	1MHz	3 MHz	PK
	1MHz	3 MHz	AV

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

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

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

Corrected Amplitude & Margin Calculation

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

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

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

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

Test Data

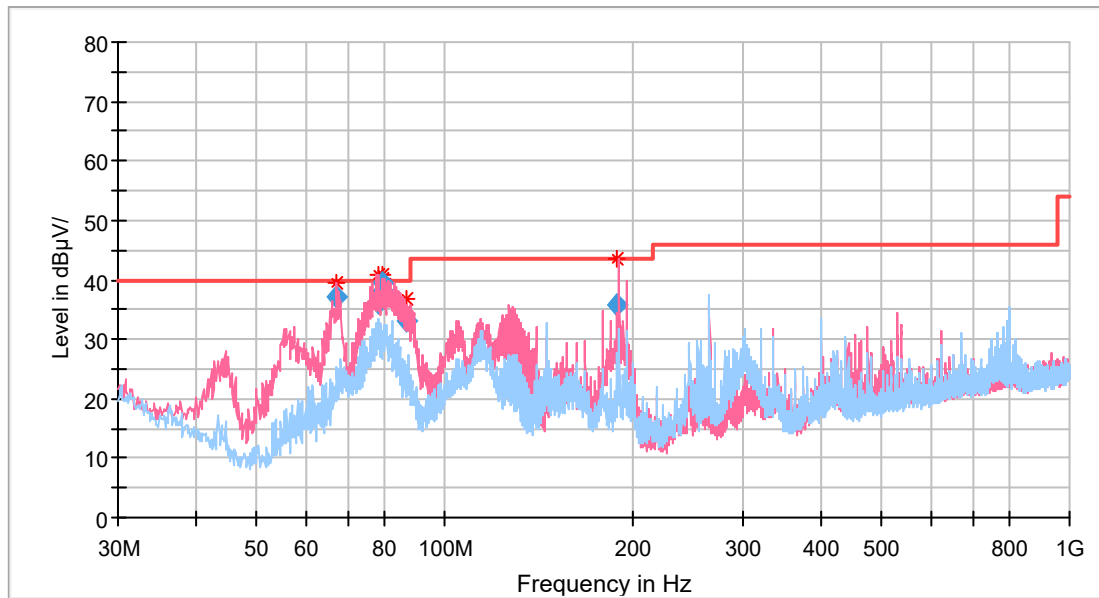
Test Environment Conditions

Temperature:	24 °C
Relative Humidity:	45 %
ATM Pressure:	95.7 kPa

The testing was performed by Winfred Wang on 2021-03-31.

Test Mode: Transmitting

30 MHz-1 GHz: 802.11g_Low Channel_Worst Case

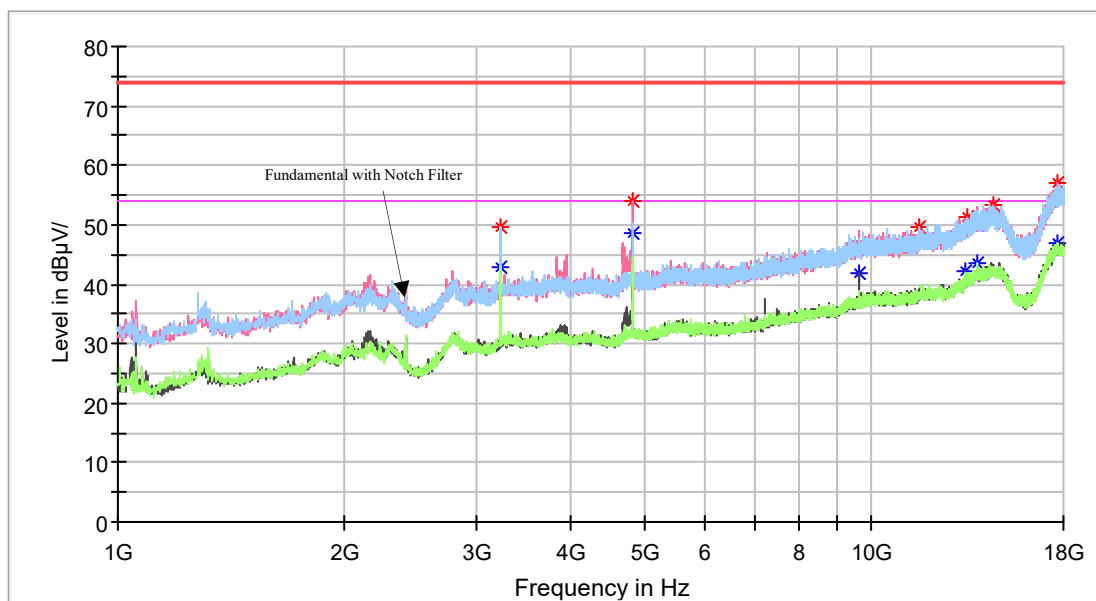


Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
67.266750	36.98	40.00	3.02	1000.0	120.000	103.0	V	0.0	-17.2
78.476500	36.20	40.00	3.80	1000.0	120.000	101.0	V	108.0	-17.4
79.685125	38.19	40.00	1.81	1000.0	120.000	106.0	V	107.0	-17.6
79.687875	39.41	40.00	0.59	1000.0	120.000	111.0	V	54.0	-17.6
87.018375	33.12	40.00	6.88	1000.0	120.000	114.0	V	101.0	-17.8
188.968750	35.77	43.50	7.73	1000.0	120.000	102.0	V	104.0	-13.8

1GHz-18GHz:

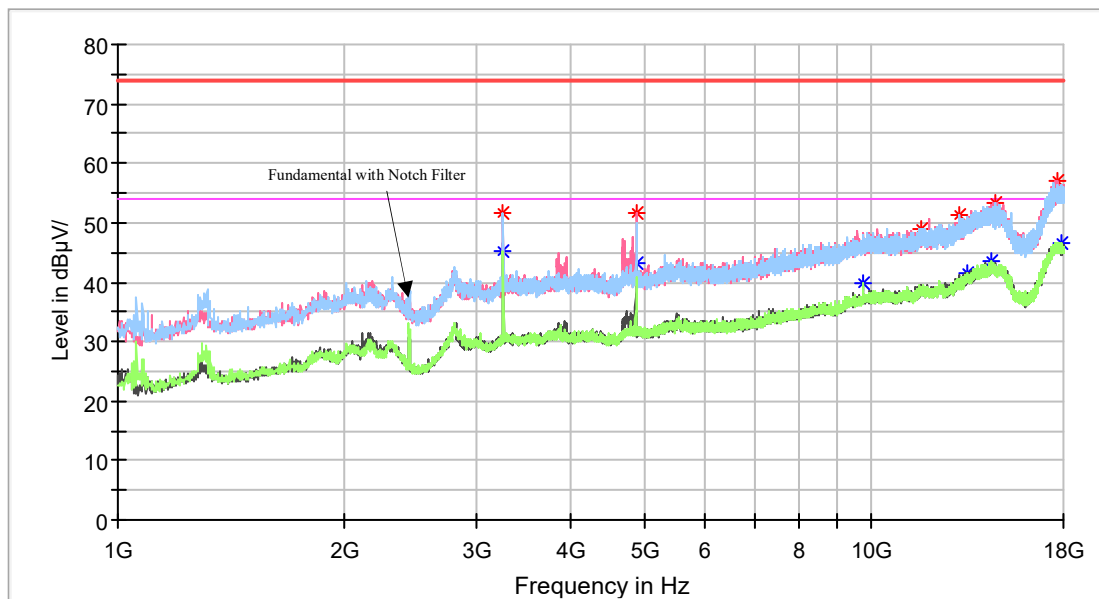
802.11b Mode

2412 MHz



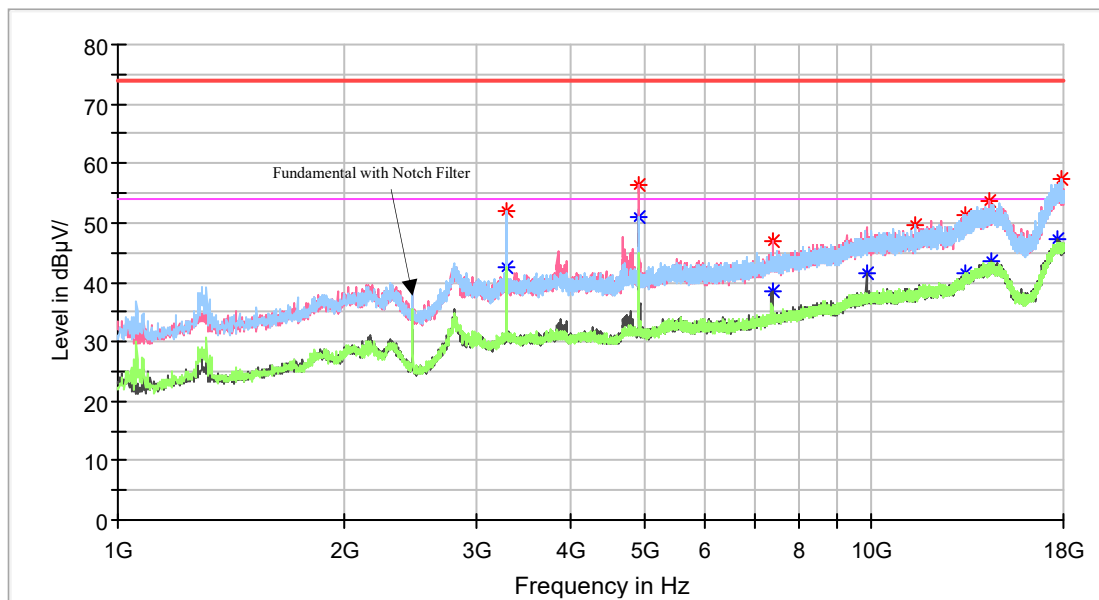
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3215.100000	---	42.91	54.00	11.09	186.0	H	335.0	8.2
3215.100000	49.53	---	74.00	24.47	186.0	H	335.0	8.2
4823.300000	---	48.73	54.00	5.27	186.0	V	2.0	11.9
4823.300000	54.17	---	74.00	19.83	186.0	V	2.0	11.9
9647.900000	---	41.92	54.00	12.08	186.0	V	237.0	19.4
11570.600000	49.73	---	74.00	24.27	186.0	H	111.0	20.9
13360.700000	---	42.05	54.00	11.95	186.0	V	95.0	23.6
13450.800000	51.33	---	74.00	22.67	186.0	V	84.0	23.9
13855.400000	---	43.55	54.00	10.45	186.0	H	12.0	24.8
14526.900000	53.49	---	74.00	20.51	186.0	V	189.0	25.5
17629.400000	---	47.08	54.00	6.92	186.0	V	274.0	29.2
17694.000000	56.92	---	74.00	17.08	186.0	V	319.0	29.2

2437 MHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3249.100000	---	45.18	54.00	8.82	162.0	H	333.0	8.3
3249.100000	51.69	---	74.00	22.31	162.0	H	333.0	8.3
4872.600000	51.72	---	74.00	22.28	162.0	V	0.0	12.0
4874.300000	---	43.18	54.00	10.82	162.0	V	350.0	12.0
9748.200000	---	39.99	54.00	14.01	162.0	V	239.0	19.5
11638.600000	49.08	---	74.00	24.92	162.0	H	134.0	20.9
13075.100000	51.21	---	74.00	22.79	162.0	H	289.0	22.6
13391.300000	---	41.40	54.00	12.60	162.0	H	106.0	23.7
14469.100000	---	43.45	54.00	10.55	162.0	H	353.0	25.5
14627.200000	53.44	---	74.00	20.56	162.0	H	0.0	25.5
17626.000000	56.91	---	74.00	17.09	162.0	V	83.0	29.2
17899.700000	---	46.71	54.00	7.29	162.0	V	8.0	29.2

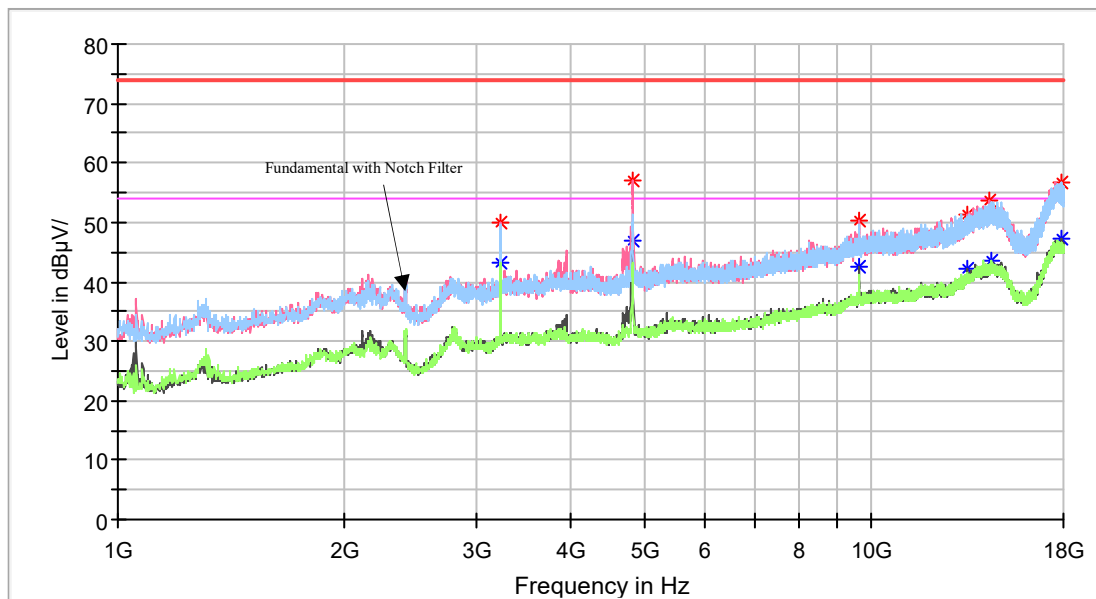
2462 MHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3281.400000	52.12	---	74.00	21.88	164.0	V	288.0	8.5
3283.100000	---	42.47	54.00	11.53	164.0	H	337.0	8.5
4923.600000	---	50.88	54.00	3.12	164.0	V	336.0	12.2
4923.600000	56.46	---	74.00	17.54	164.0	V	336.0	12.2
7385.200000	---	38.37	54.00	15.63	164.0	V	266.0	15.7
7386.900000	46.92	---	74.00	27.08	164.0	V	266.0	15.7
9848.500000	---	41.43	54.00	12.57	164.0	V	10.0	19.6
11463.500000	49.51	---	74.00	24.49	164.0	H	1.0	20.8
13367.500000	---	41.50	54.00	12.50	164.0	H	279.0	23.6
13372.600000	51.37	---	74.00	22.63	164.0	H	1.0	23.6
14394.300000	53.77	---	74.00	20.23	164.0	V	34.0	25.4
14426.600000	---	43.62	54.00	10.38	164.0	V	210.0	25.5
17631.100000	---	47.14	54.00	6.86	164.0	V	0.0	29.2
17847.000000	57.24	---	74.00	16.76	164.0	H	107.0	29.2

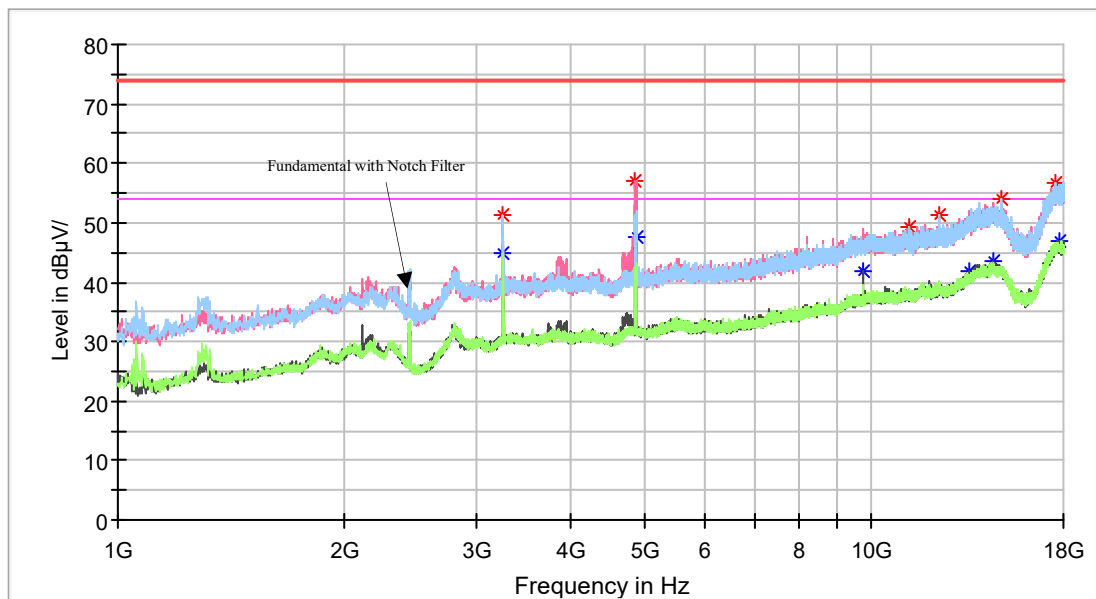
802.11g Mode

2412 MHz



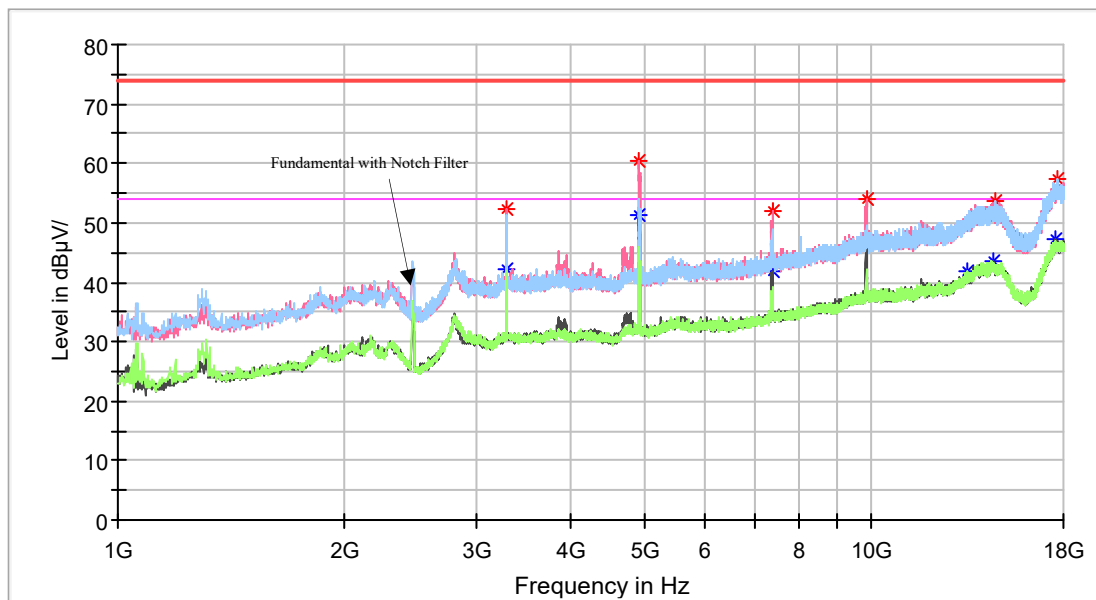
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3215.100000	50.11	---	74.00	23.89	186.0	V	294.0	8.2
3215.100000	---	43.28	54.00	10.72	186.0	V	294.0	8.2
4818.200000	56.93	---	74.00	17.07	186.0	V	359.0	11.8
4823.300000	---	47.02	54.00	6.98	186.0	V	338.0	11.9
9647.900000	50.13	---	74.00	23.87	186.0	V	232.0	19.4
9647.900000	---	42.69	54.00	11.31	186.0	V	232.0	19.4
13387.900000	51.24	---	74.00	22.76	186.0	V	327.0	23.7
13396.400000	---	42.05	54.00	11.95	186.0	V	23.0	23.7
14392.600000	53.78	---	74.00	20.22	186.0	V	186.0	25.4
14426.600000	---	43.57	54.00	10.43	186.0	H	358.0	25.5
17843.600000	56.71	---	74.00	17.29	186.0	H	0.0	29.2
17937.100000	---	47.13	54.00	6.87	186.0	V	0.0	29.2

2437 MHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3249.100000	---	44.95	54.00	9.05	162.0	H	333.0	8.3
3249.100000	51.43	---	74.00	22.57	162.0	H	333.0	8.3
4869.200000	57.12	---	74.00	16.88	162.0	V	350.0	12.0
4874.300000	---	47.52	54.00	6.48	162.0	V	0.0	12.0
9748.200000	---	41.98	54.00	12.02	162.0	V	238.0	19.5
11215.300000	49.25	---	74.00	24.75	162.0	H	9.0	20.5
12306.700000	51.32	---	74.00	22.68	162.0	H	144.0	21.2
13461.000000	---	41.70	54.00	12.30	162.0	V	0.0	23.9
14508.200000	---	43.44	54.00	10.56	162.0	V	49.0	25.5
14889.000000	53.92	---	74.00	20.08	162.0	H	82.0	25.4
17530.800000	56.80	---	74.00	17.20	162.0	H	166.0	29.2
17767.100000	---	46.97	54.00	7.03	162.0	V	38.0	29.2

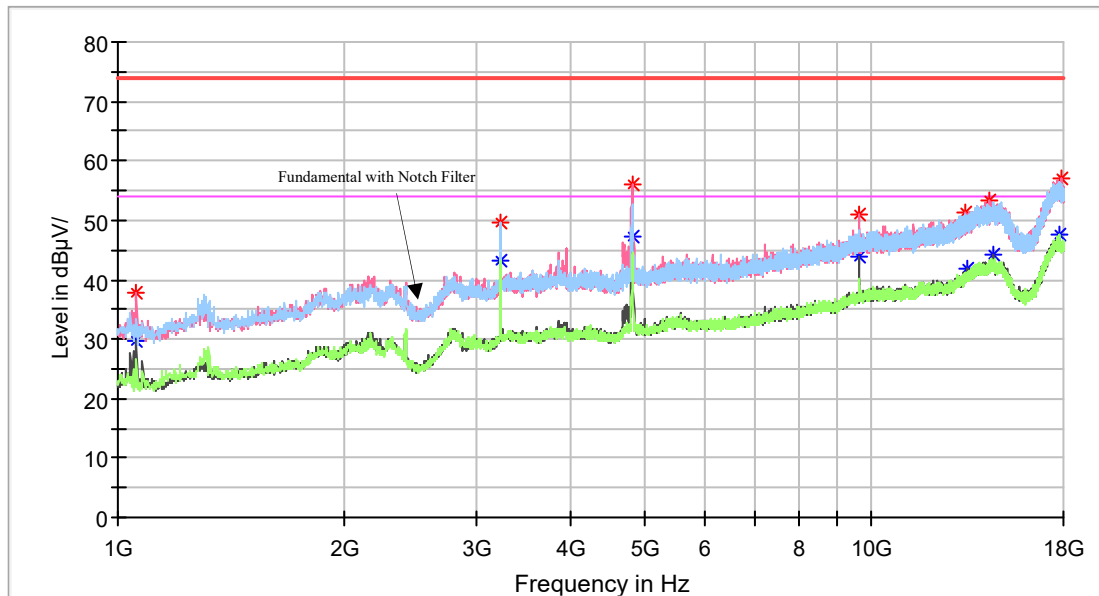
2462 MHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3283.100000	52.18	---	74.00	21.82	164.0	V	289.0	8.5
3283.100000	---	42.33	54.00	11.67	164.0	V	289.0	8.5
4921.900000	---	51.45	54.00	2.55	150.0	V	338.0	12.2
4921.900000	60.31	---	74.00	13.69	150.0	V	338.0	12.2
7385.200000	---	41.76	54.00	12.24	164.0	V	221.0	15.7
7386.900000	52.14	---	74.00	21.86	150.0	V	261.0	15.7
9848.500000	---	47.05	54.00	6.95	150.0	V	238.0	19.6
9848.500000	54.14	---	74.00	19.86	150.0	V	238.0	19.6
13421.900000	---	41.88	54.00	12.12	150.0	H	7.0	23.8
14542.200000	---	43.68	54.00	10.32	150.0	V	250.0	25.5
14601.700000	53.64	---	74.00	20.36	164.0	H	0.0	25.5
17518.900000	---	47.33	54.00	6.67	164.0	V	255.0	29.2
17694.000000	57.36	---	74.00	16.64	150.0	H	127.0	29.2

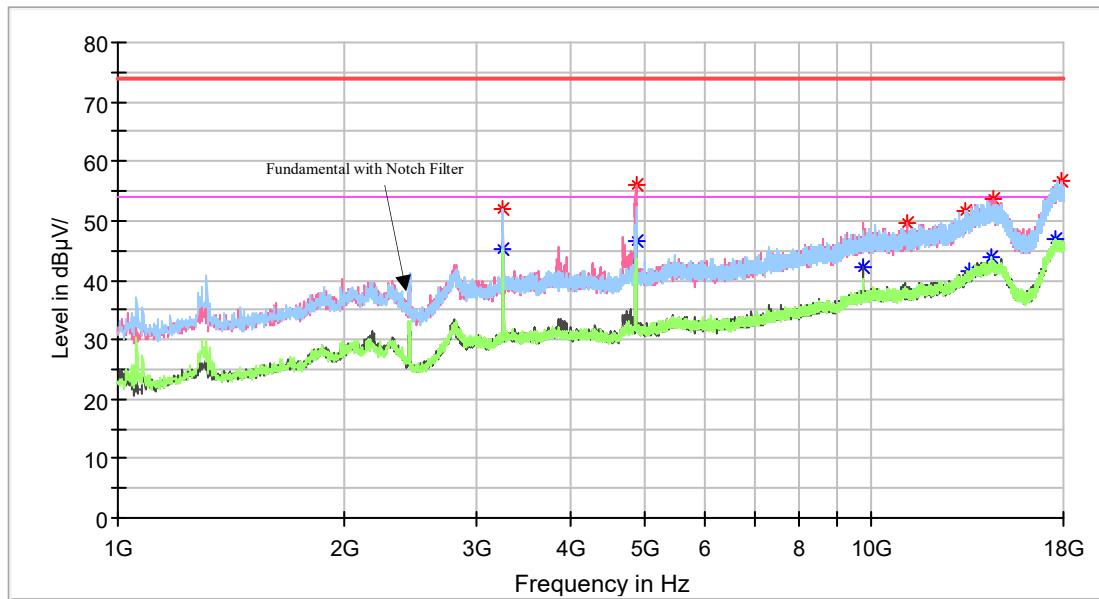
802.11n-HT20 Mode

2412 MHz



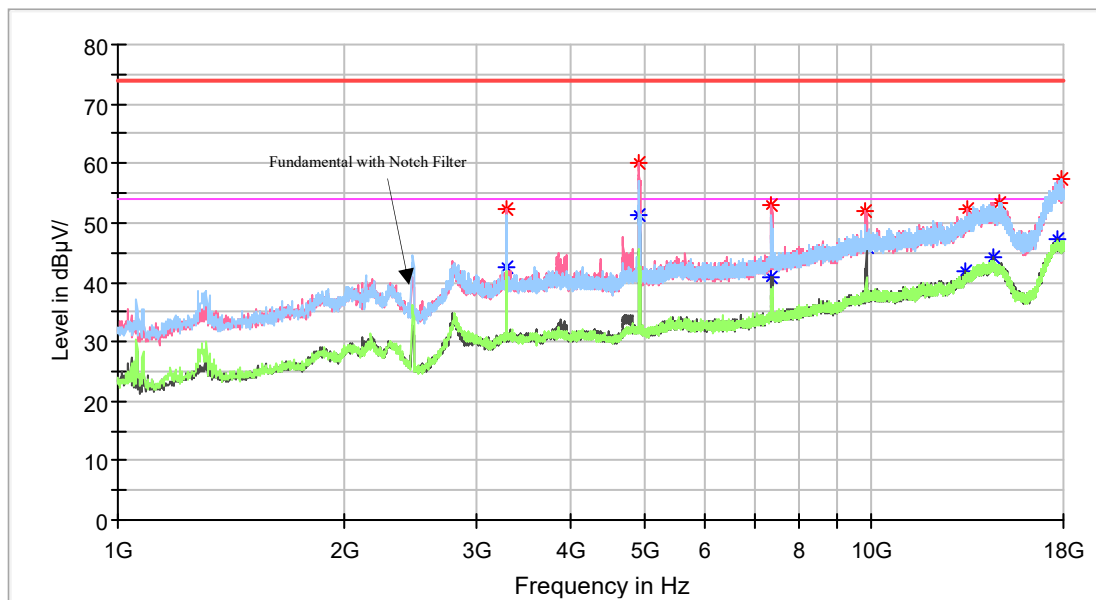
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1059.500000	---	29.60	54.00	24.40	186.0	V	48.0	-0.1
1059.500000	37.92	---	74.00	36.08	186.0	V	48.0	-0.1
3215.100000	49.54	---	74.00	24.46	186.0	H	337.0	8.2
3215.100000	---	43.20	54.00	10.80	186.0	H	337.0	8.2
4823.300000	55.92	---	74.00	18.08	186.0	V	332.0	11.9
4823.300000	---	47.23	54.00	6.77	186.0	V	332.0	11.9
9647.900000	50.85	---	74.00	23.15	186.0	V	266.0	19.4
9647.900000	---	43.73	54.00	10.27	186.0	V	266.0	19.4
13353.900000	51.23	---	74.00	22.77	186.0	V	0.0	23.6
13449.100000	---	41.90	54.00	12.10	186.0	V	164.0	23.9
14379.000000	53.42	---	74.00	20.58	186.0	V	0.0	25.4
14537.100000	---	44.10	54.00	9.90	186.0	V	255.0	25.5

2437 MHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3249.100000	---	45.15	54.00	8.85	162.0	H	330.0	8.3
3249.100000	51.89	---	74.00	22.11	162.0	H	330.0	8.3
4870.900000	56.00	---	74.00	18.00	162.0	V	0.0	12.0
4874.300000	---	46.67	54.00	7.33	162.0	V	4.0	12.0
9748.200000	---	42.22	54.00	11.78	162.0	V	242.0	19.5
11177.900000	49.67	---	74.00	24.33	162.0	V	0.0	20.5
13345.400000	51.67	---	74.00	22.33	162.0	V	75.0	23.5
13457.600000	---	41.51	54.00	12.49	162.0	H	86.0	23.9
14409.600000	---	43.82	54.00	10.18	162.0	H	264.0	25.4
14537.100000	53.56	---	74.00	20.44	162.0	V	0.0	25.5
17539.300000	---	46.83	54.00	7.17	162.0	H	86.0	29.2
17920.100000	56.73	---	74.00	17.27	162.0	V	98.0	29.2

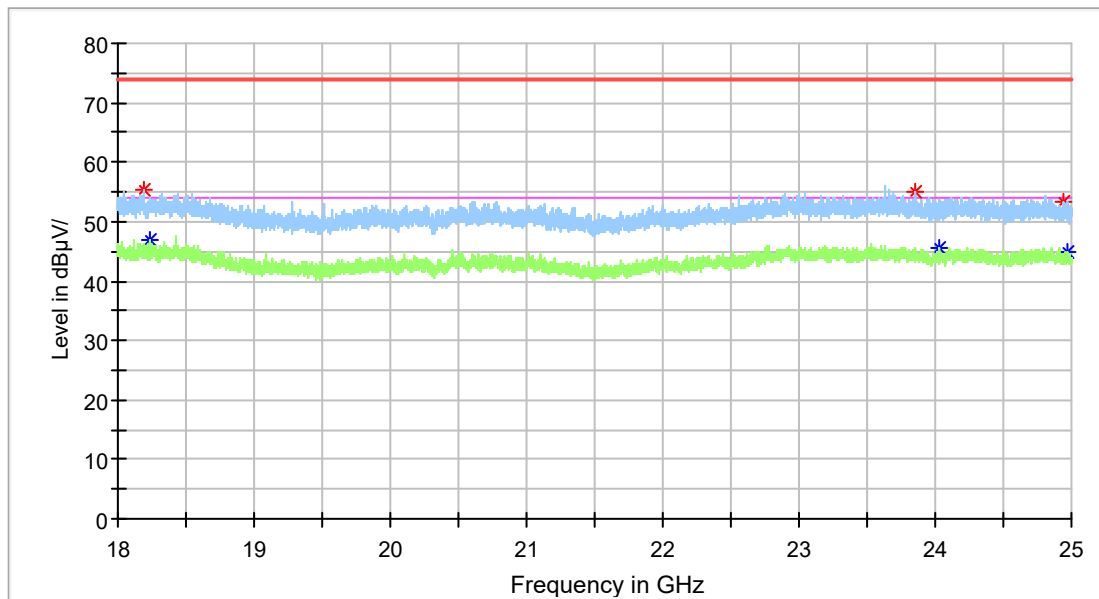
2462 MHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3283.100000	---	42.69	54.00	11.31	164.0	V	287.0	8.5
3283.100000	52.15	---	74.00	21.85	164.0	V	287.0	8.5
4923.600000	60.17	---	74.00	13.83	150.0	V	341.0	12.2
4925.300000	---	51.31	54.00	2.69	150.0	V	23.0	12.2
7381.800000	---	40.72	54.00	13.28	164.0	V	261.0	15.7
7383.500000	53.04	---	74.00	20.96	164.0	V	261.0	15.7
9841.700000	51.92	---	74.00	22.08	150.0	V	233.0	19.6
9848.500000	---	45.88	54.00	8.12	150.0	V	233.0	19.6
13347.100000	---	41.91	54.00	12.09	164.0	V	276.0	23.5
13418.500000	52.27	---	74.00	21.73	150.0	V	290.0	23.8
14496.300000	---	44.24	54.00	9.76	164.0	V	91.0	25.5
14836.300000	53.44	---	74.00	20.56	164.0	H	344.0	25.4
17634.500000	---	47.40	54.00	6.60	150.0	V	0.0	29.2
17925.200000	57.29	---	74.00	16.71	150.0	H	15.0	29.2

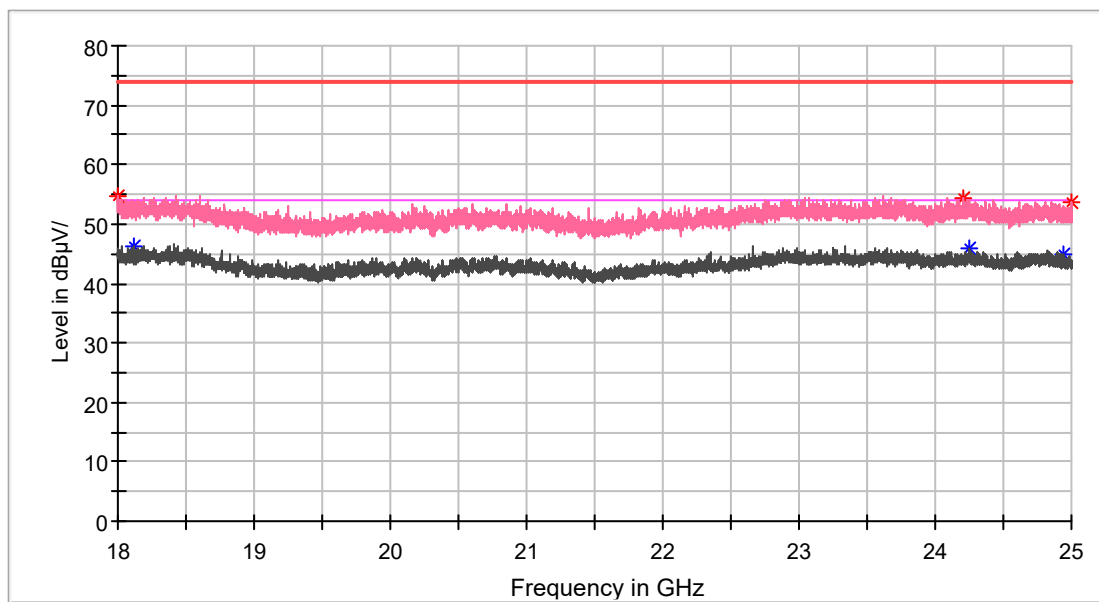
18 GHz to 25 GHz: 802.11g_High Channel-Worst Case

Horizontal



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18189.000000	55.25	---	74.00	18.75	100.0	H	267.0	9.5
18238.000000	---	47.00	54.00	7.00	100.0	H	43.0	9.5
23848.500000	54.90	---	74.00	19.10	100.0	H	175.0	11.6
24025.600000	---	45.60	54.00	8.40	100.0	H	294.0	11.5
24948.200000	53.34	---	74.00	20.66	100.0	H	18.0	11.5
24975.500000	---	45.04	54.00	8.96	100.0	H	259.0	11.5

Vertical



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18002.800000	54.55	---	74.00	19.45	100.0	V	352.0	9.3
18112.000000	---	46.21	54.00	7.79	100.0	V	0.0	9.4
24199.900000	54.42	---	74.00	19.58	100.0	V	128.0	11.5
24257.300000	---	45.85	54.00	8.15	100.0	V	57.0	11.5
24939.800000	---	44.87	54.00	9.13	100.0	V	252.0	11.5
24997.200000	53.55	---	74.00	20.45	100.0	V	93.0	11.5

Band Edge Emission:

802.11b Mode

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
	Reading	Measurement	Polar	Factor					
MHz	dBμV	PK/AV	H/V	dB(1/m)	dB	dB	dBμV/m	dBμV/m	dB
Frequency: 2412 MHz									
2390	30.48	PK	H	29.15	3.54	0.00	63.17	74.00	10.83
2390	18.04	AV	H	29.15	3.54	0.00	50.73	54.00	3.27
2390	28.56	PK	V	29.15	3.54	0.00	61.25	74.00	12.75
2390	14.68	AV	V	29.15	3.54	0.00	47.37	54.00	6.63
Frequency: 2462 MHz									
2483.5	29.56	PK	H	29.02	3.61	0.00	62.19	74.00	11.81
2483.5	17.6	AV	H	29.02	3.61	0.00	50.23	54.00	3.77

802.11g Mode

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
	Reading	Measurement	Polar	Factor					
MHz	dBμV	PK/AV	H/V	dB(1/m)	dB	dB	dBμV/m	dBμV/m	dB
Frequency: 2412 MHz									
2390	34.15	PK	H	29.15	3.54	0.00	66.84	74.00	7.16
2390	19.69	AV	H	29.15	3.54	0.00	52.38	54.00	1.62
Frequency: 2462 MHz									
2483.5	35.67	PK	H	29.02	3.61	0.00	68.30	74.00	5.70
2483.5	19.51	AV	H	29.02	3.61	0.00	52.14	54.00	1.86

802.11n-HT20 Mode

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
	Reading	Measurement	Polar	Factor					
MHz	dBμV	PK/AV	H/V	dB(1/m)	dB	dB	dBμV/m	dBμV/m	dB
Frequency: 2412 MHz									
2390	35.65	PK	H	29.15	3.54	0.00	68.34	74.00	5.66
2390	19.70	AV	H	29.15	3.54	0.00	52.39	54.00	1.61
Frequency: 2462 MHz									
2483.5	40.89	PK	H	29.02	3.61	0.00	73.52	74.00	0.48
2483.5	20.35	AV	H	29.02	3.61	0.00	52.98	54.00	1.02

Note:

Corrected Amplitude = Corrected Factor + Reading

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

Margin = Limit- Corr. Amplitude

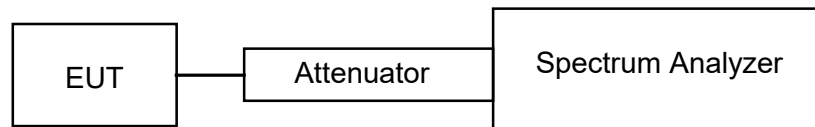
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

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

Test Procedure

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	50 %
ATM Pressure:	95.6 kPa

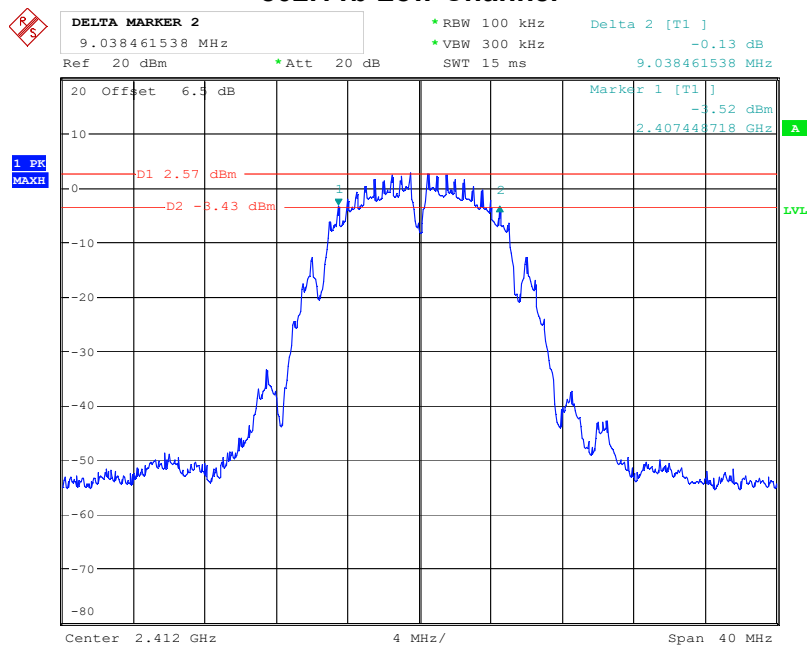
The testing was performed by Winfred Wang on 2021-03-18.

Test Mode: Transmitting

Test Result: Compliance. Please refer to the following table and plots.

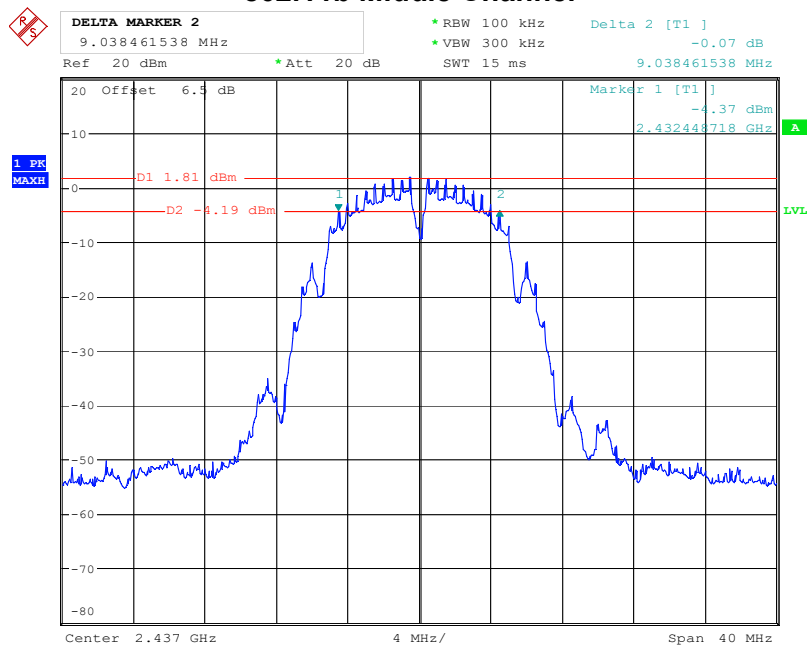
Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
802.11b	Low	2412	9.04	≥0.50
	Middle	2437	9.04	≥0.50
	High	2462	9.04	≥0.50
802.11g	Low	2412	16.47	≥0.50
	Middle	2437	16.41	≥0.50
	High	2462	16.35	≥0.50
802.11n- HT20	Low	2412	17.56	≥0.50
	Middle	2437	17.56	≥0.50
	High	2462	17.63	≥0.50

802.11b Low Channel



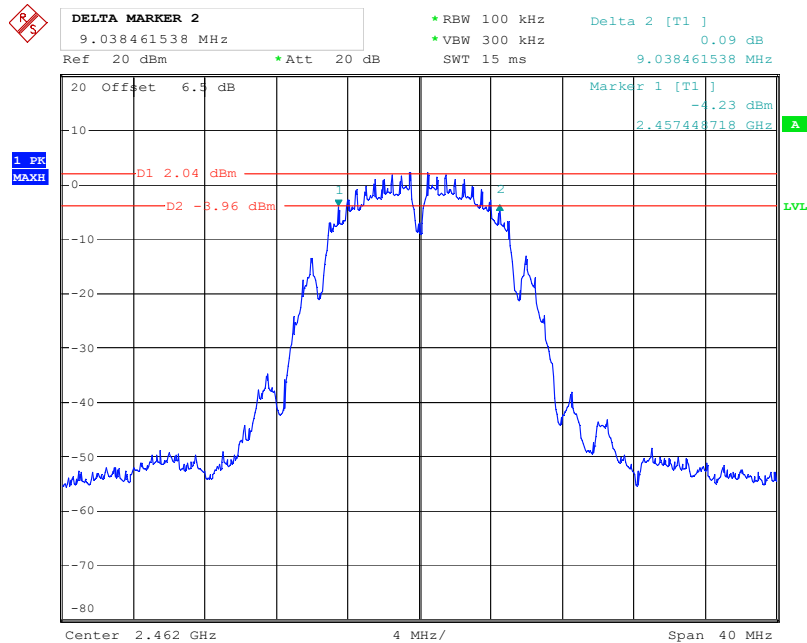
Date: 18.MAR.2021 15:07:45

802.11b Middle Channel



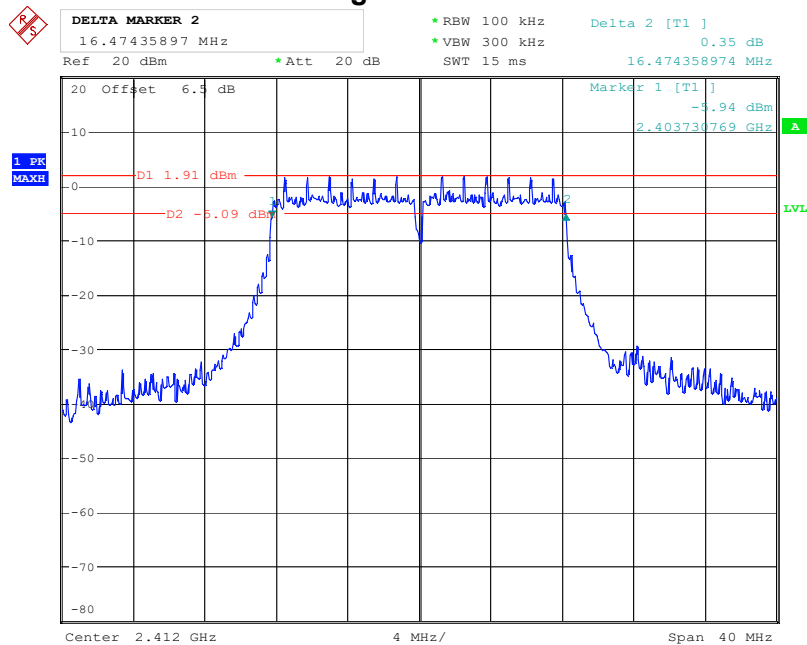
Date: 18.MAR.2021 15:06:01

802.11b High Channel



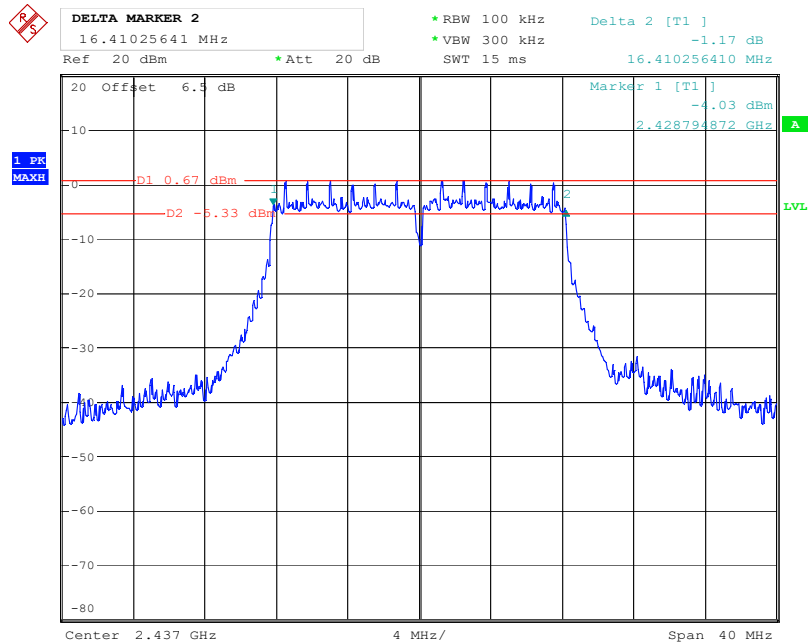
Date: 18.MAR.2021 15:09:29

802.11g Low Channel



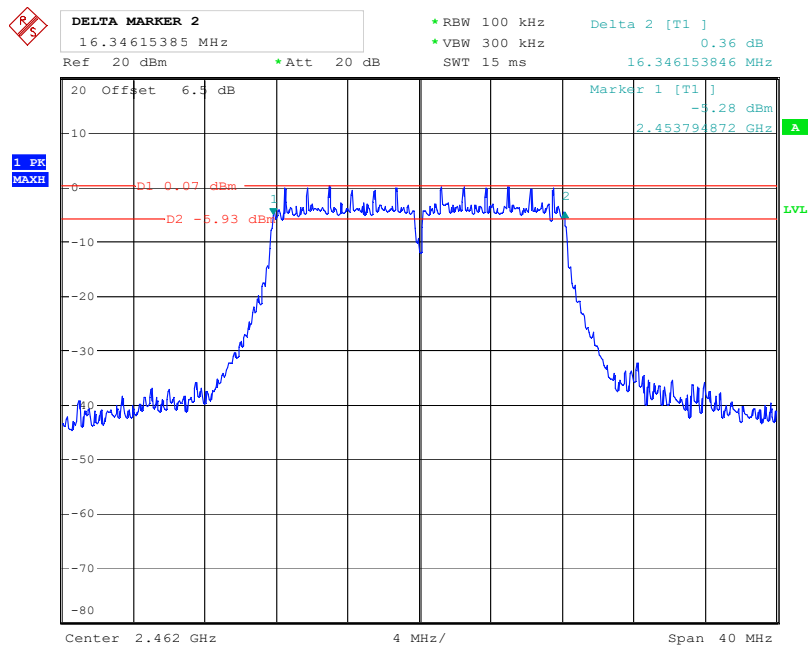
Date: 18.MAR.2021 15:08:03

802.11g Middle Channel



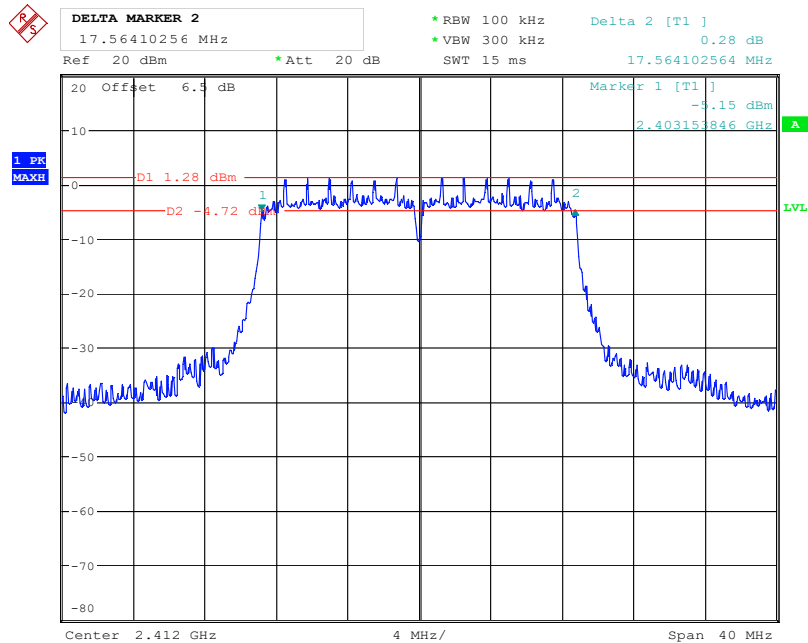
Date: 18.MAR.2021 15:09:19

802.11g High Channel



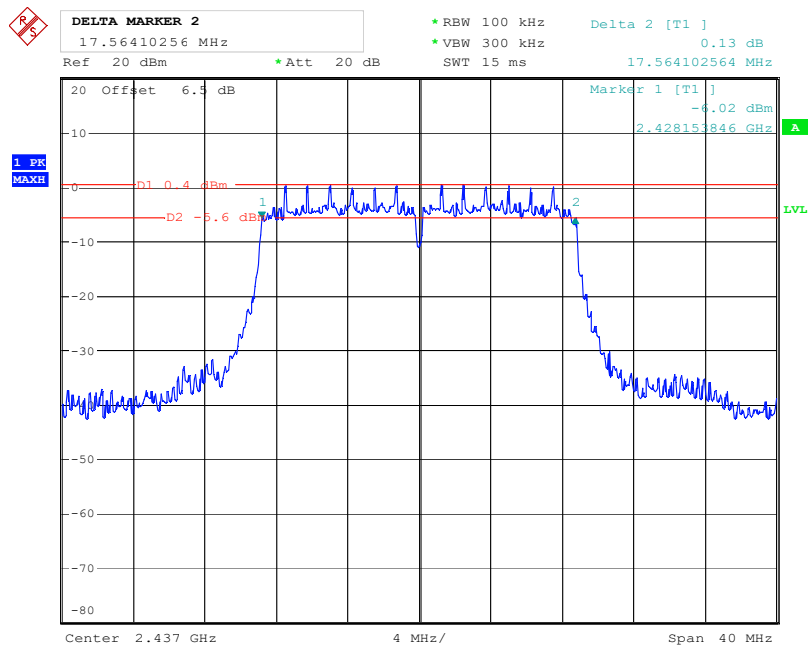
Date: 18.MAR.2021 15:15:52

802.11n-HT20 Low Channel



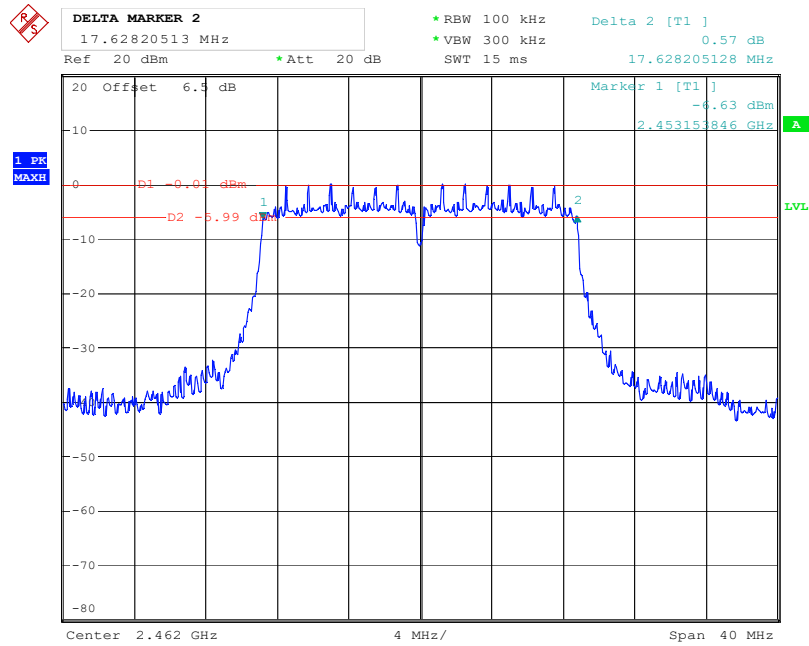
Date: 18.MAR.2021 15:19:19

802.11n-HT20 Middle Channel



Date: 18.MAR.2021 15:21:28

802.11n-HT20 High Channel



Date: 18.MAR.2021 15:24:46

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 test equipment.
3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	50 %
ATM Pressure:	95.6 kPa

The testing was performed by Winfred Wang on 2021-03-18.

Test Mode: Transmitting

Test Result: Compliance. Please refer to the following table.

Mode	Channel	Frequency (MHz)	Max Peak Conducted Output Power (dBm)	Max Average Conducted Output Power (dBm)	Limit (dBm)
802.11b	Low	2412	14.02	10.39	30
	Middle	2437	13.54	10.06	30
	High	2462	14.26	10.63	30
802.11g	Low	2412	19.64	10.72	30
	Middle	2437	19.18	13.51	30
	High	2462	19.47	14.03	30
802.11n-HT20	Low	2412	18.97	13.52	30
	Middle	2437	19.06	13.33	30
	High	2462	19.43	13.98	30

Note: The duty cycle factor was calculated in result.

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

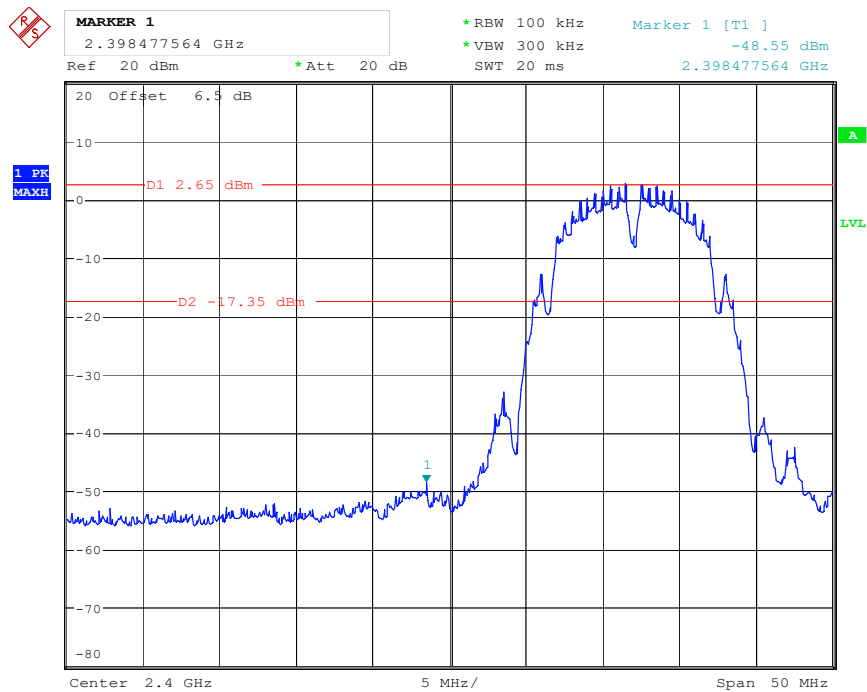
Temperature:	25 °C
Relative Humidity:	50 %
ATM Pressure:	95.6 kPa

The testing was performed by Winfred Wang on 2021-03-18.

Test mode: Transmitting

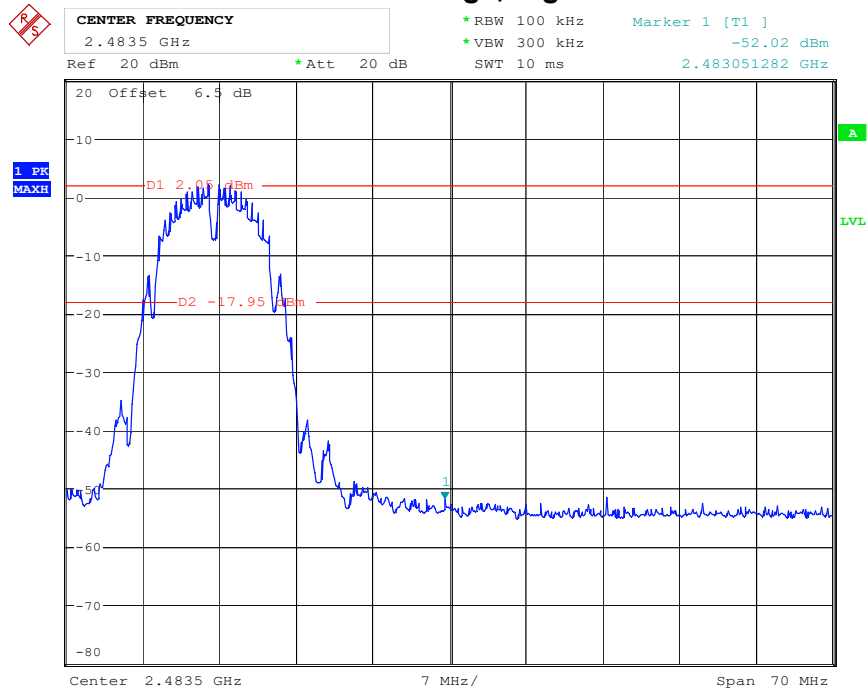
Test Result: Compliance. Please refer to following plots.

802.11b: Band Edge, Left Side



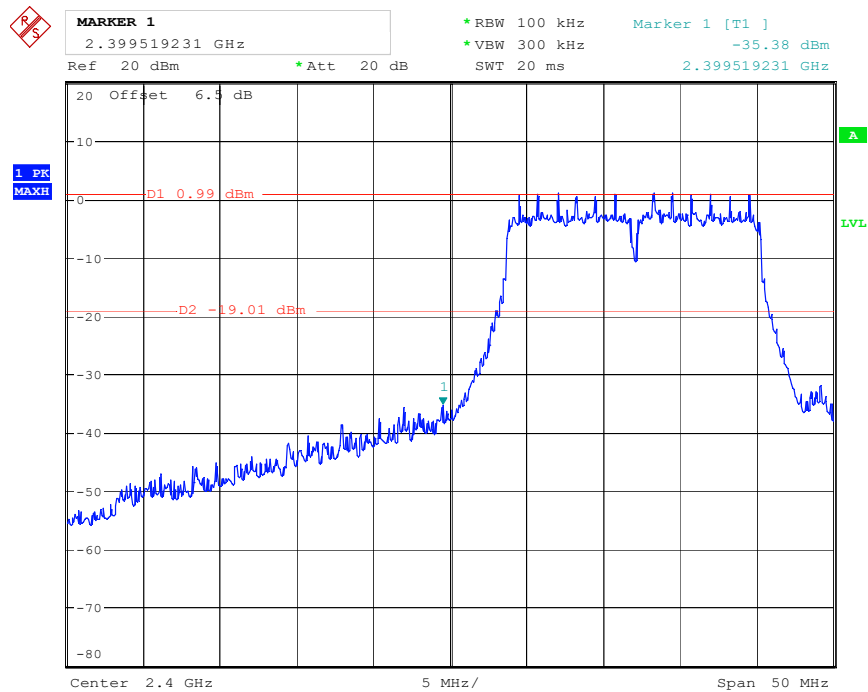
Date: 18.MAR.2021 18:41:38

802.11b: Band Edge, Right Side



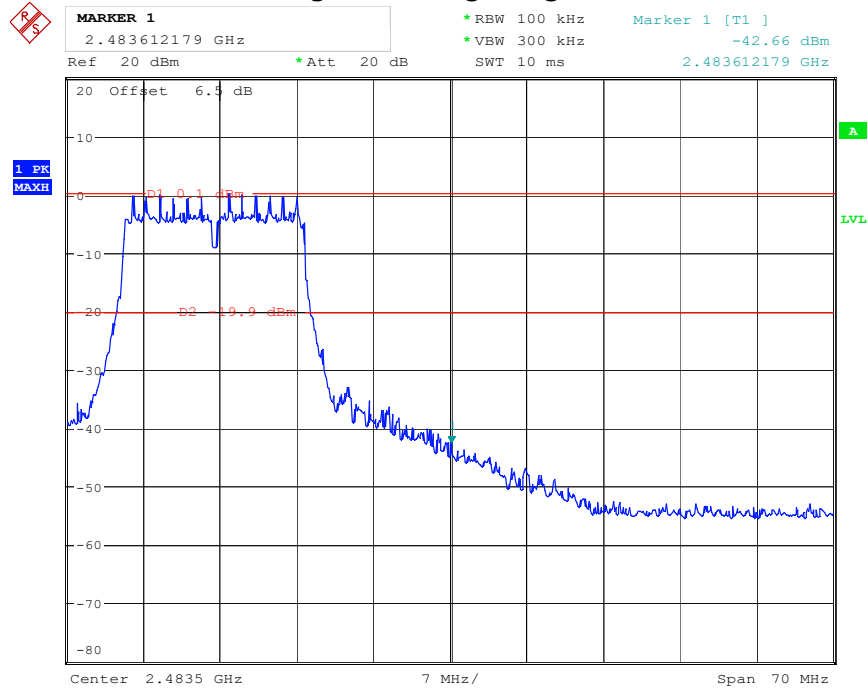
Date: 18.MAR.2021 18:43:21

802.11g: Band Edge, Left Side



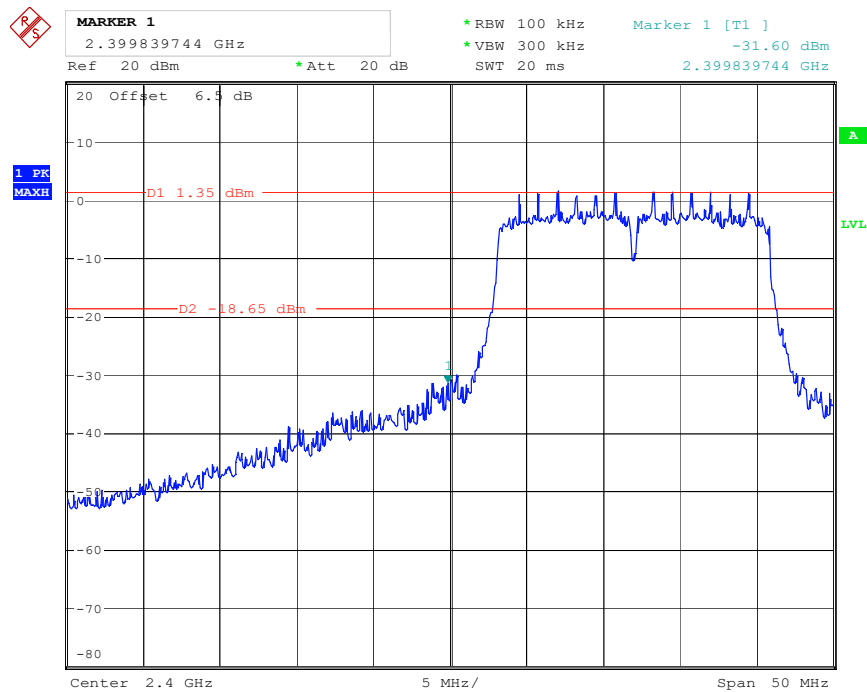
Date: 18.MAR.2021 18:46:17

802.11g: Band Edge, Right Side



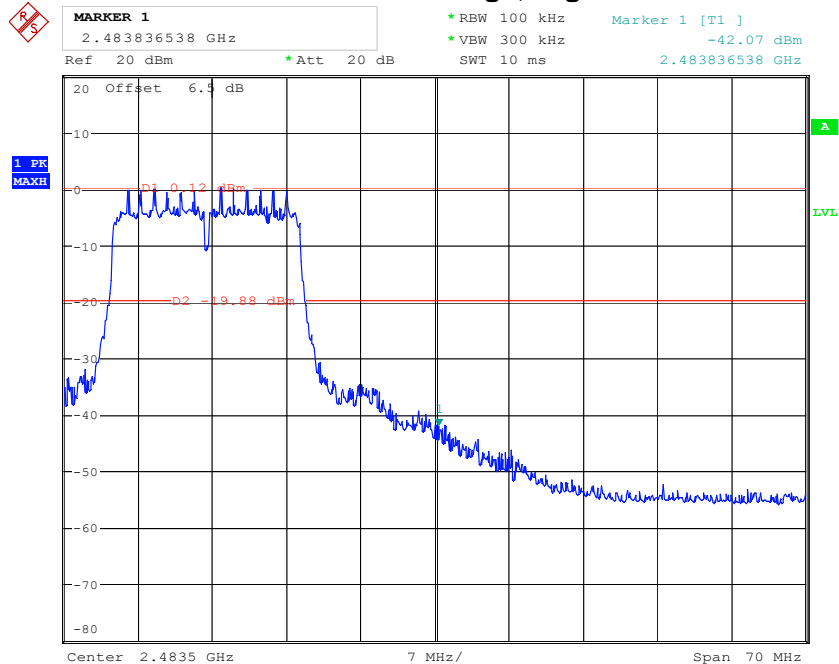
Date: 18.MAR.2021 18:45:01

802.11n-HT20 Band Edge, Left Side



Date: 18.MAR.2021 18:49:33

802.11n-HT20 Band Edge, Right Side



Date: 18.MAR.2021 18:50:42

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

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq 3 \times \text{RBW}$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	50 %
ATM Pressure:	95.6 kPa

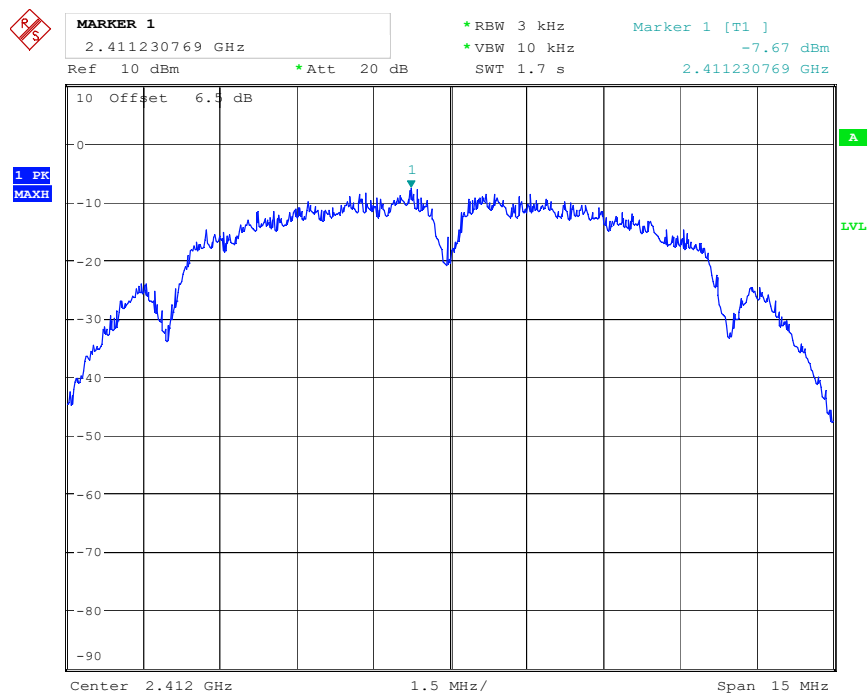
The testing was performed by Winfred Wang on 2021-03-18.

Test Mode: Transmitting

Test Result: Compliance. Please refer to the following table and plots

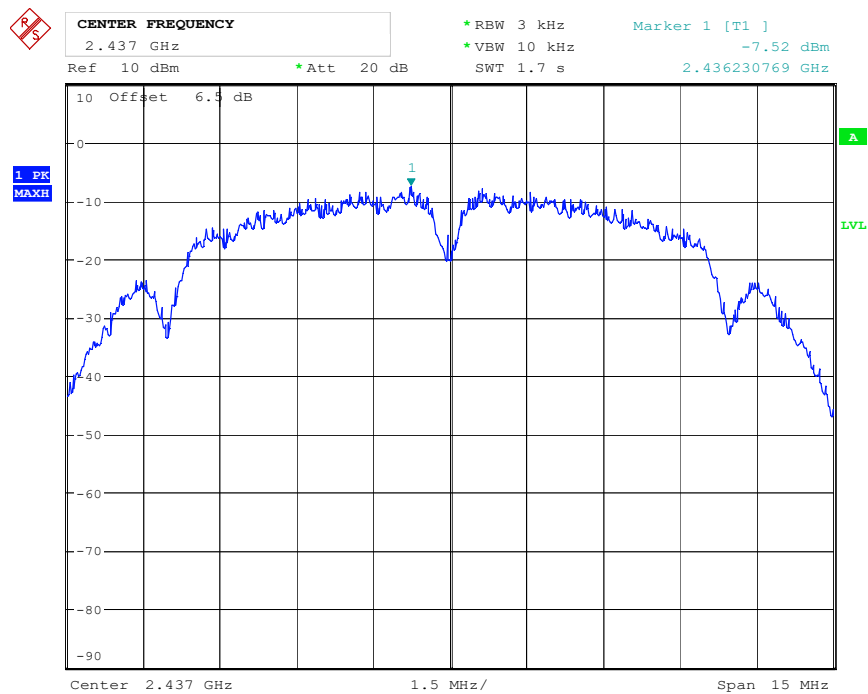
Mode	Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	Low	2412	-7.67	8
	Middle	2437	-7.52	8
	High	2462	-8.53	8
802.11g	Low	2412	-12.87	8
	Middle	2437	-13.26	8
	High	2462	-13.32	8
802.11n-HT20	Low	2412	-12.59	8
	Middle	2437	-13.31	8
	High	2462	-13.70	8

Power Spectral Density, 802.11b Low Channel



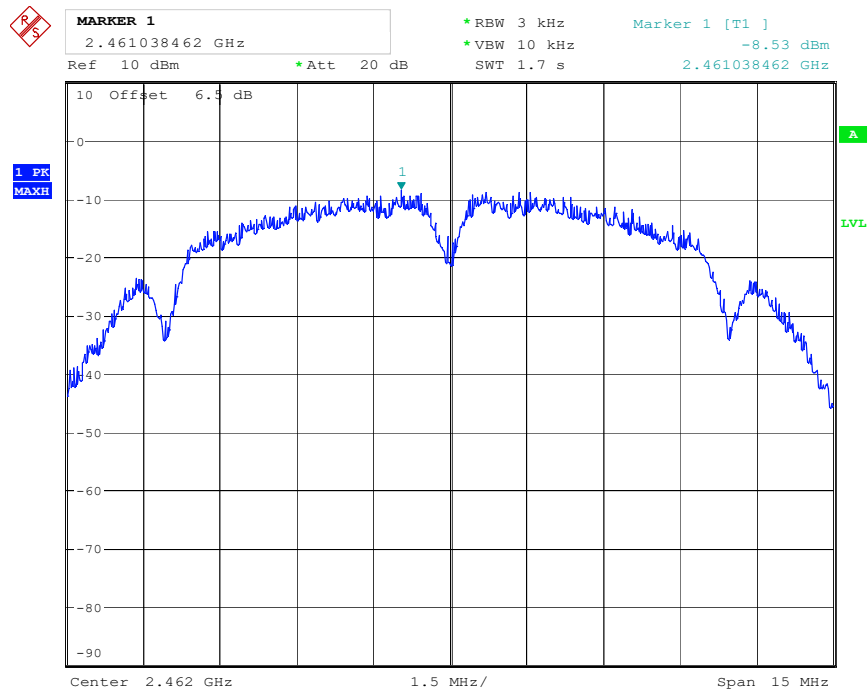
Date: 18.MAR.2021 15:54:59

Power Spectral Density, 802.11b Middle Channel



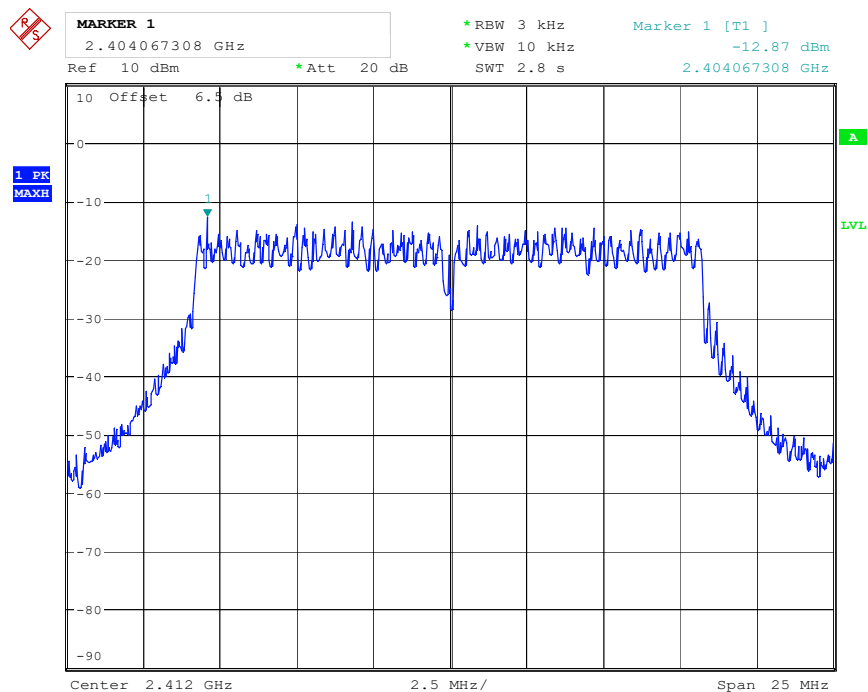
Date: 18.MAR.2021 15:58:12

Power Spectral Density, 802.11b High Channel

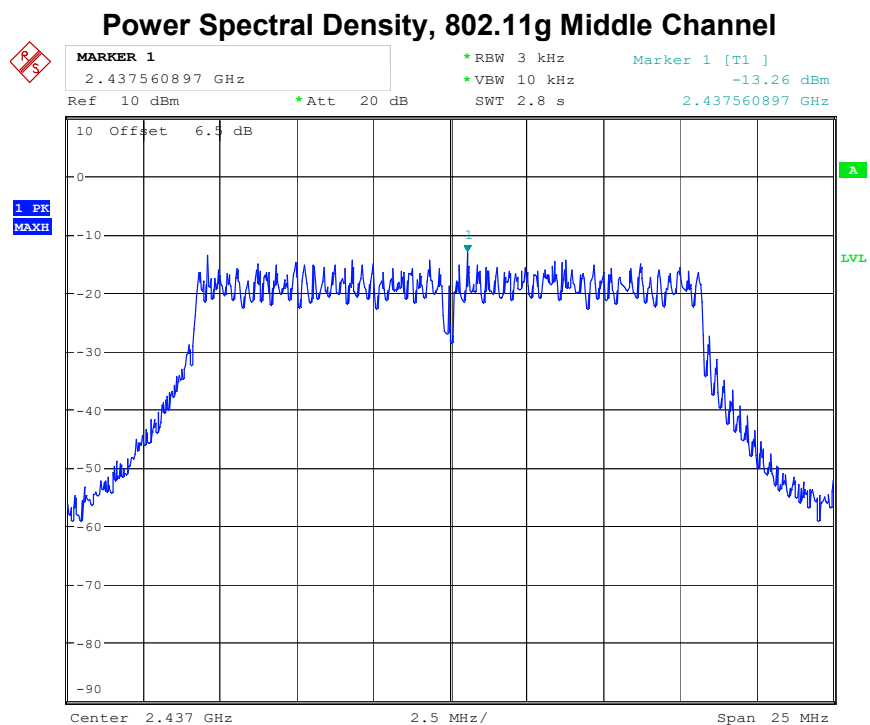


Date: 18.MAR.2021 16:00:57

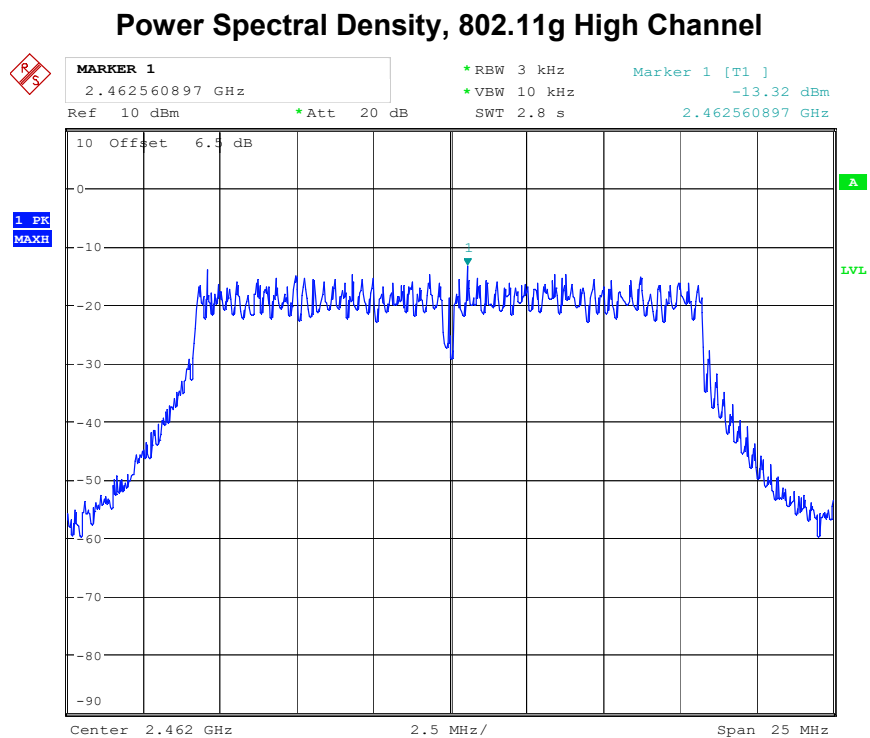
Power Spectral Density, 802.11g Low Channel



Date: 18.MAR.2021 16:01:49

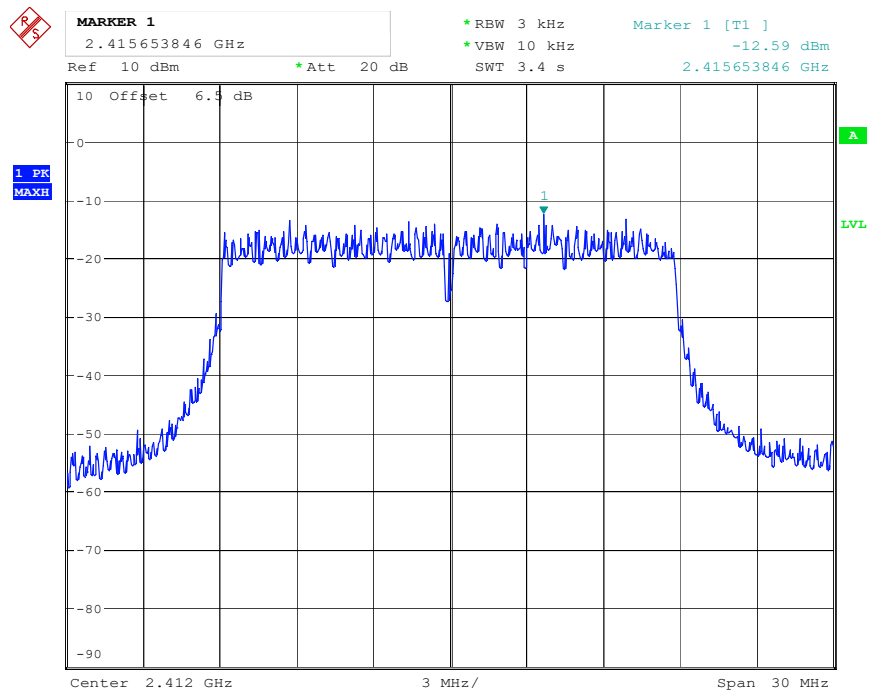


Date: 18.MAR.2021 16:02:36



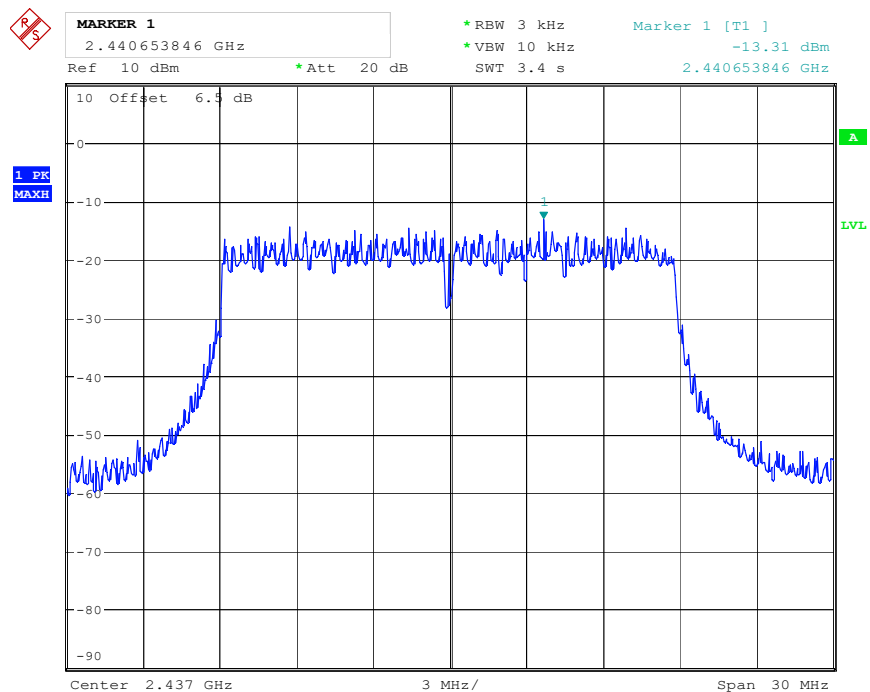
Date: 18.MAR.2021 16:04:02

Power Spectral Density, 802.11n-HT20 Low Channel



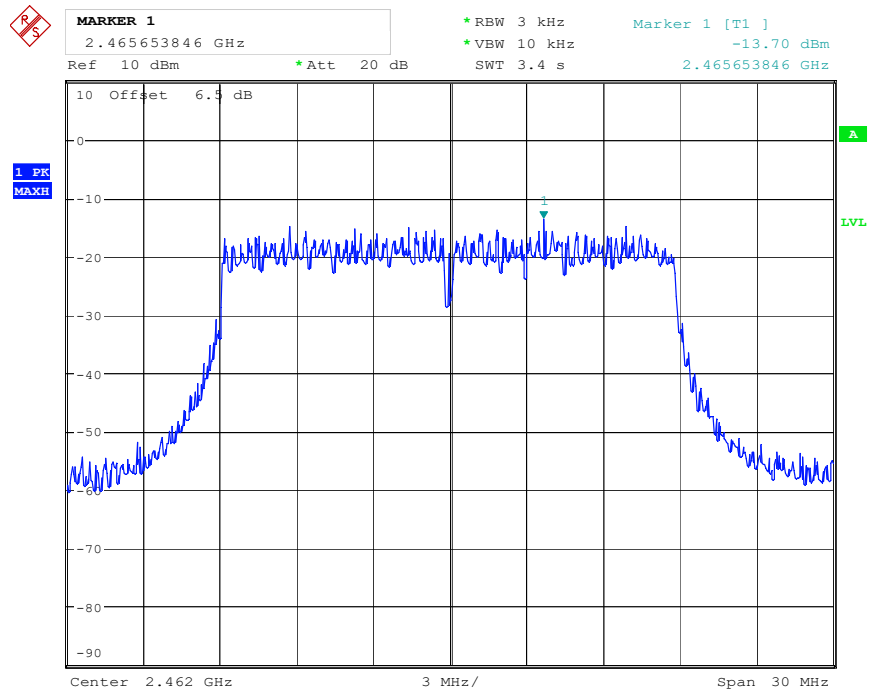
Date: 18.MAR.2021 16:10:09

Power Spectral Density, 802.11n-HT20 Middle Channel



Date: 18.MAR.2021 16:12:33

Power Spectral Density, 802.11n-HT20 High Channel



Date: 18.MAR.2021 16:15:41

END OF REPORT