TESTING LABORATORY
CERTIFICATE #4820.01

FCC PART 15.247

TEST REPORT

For

Chasing-Innovation Technology co.,Ltd

ROOM 506 XITA BUILDING, DIGITAL CULTURE INDUSTRY BASE, SHENLAN AVENUE10128,
NANSHAN DISTRICT Shenzhen China

FCC ID: 2AMOD-DORY

Report Type:	Product Name:
Original Report	GLADIUS Submersible Drone

Report Number:	RDG190904013-00A
Report Date:	2019-10-26
Reviewed By:	Jerry Zhang EMC Manager
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:	GLADIUS Submersible Drone
EUT Model:	CHASING DORY
Operation Frequency:	2412-2462MHz(802.11b/g/n ht20) 2422-2452MHz(802.11n ht40)
Output Power (Conducted):	25.52dBm
Modulation Type:	DSSS, OFDM
Rated Input Voltage:	Powered by Submersible Drone
External Dimension:	130mm*130mm*88mm (Buoy) 247mm*188mm*92mm (Submersible Drone)
Serial Number:	190904013
EUT Received Date:	2019/9/6
EUT Received Status:	Good

Objective

This report is prepared on behalf of ***Chasing-Innovation Technology 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 Rules Part 15-Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

FCC Part 15E NII submissions with FCC ID: 2AMOD-DORY.

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 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.55 dB,200M~1GHz: 5.92 dB,1G~6GHz: 4.98 dB, 6G~18GHz: 5.89 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.5 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.

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

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in Engineering Mode, which was provided by the manufacturer.

For 2.4GHz band, total 11 channels are provided:

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	/	/

For 802.11b, 802.11g, and 802.11n ht20 modes were test with channel 1,6,11.
For 802.11n ht40 modes were test with channel 3,6,9.

The worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all data rates bandwidths, and modulations. The device supports SISO in all modes, and MIMO in 802.11n modes, per pretest, MIMO mode was the worst mode and reported for 802.11n modes.

EUT Exercise Software

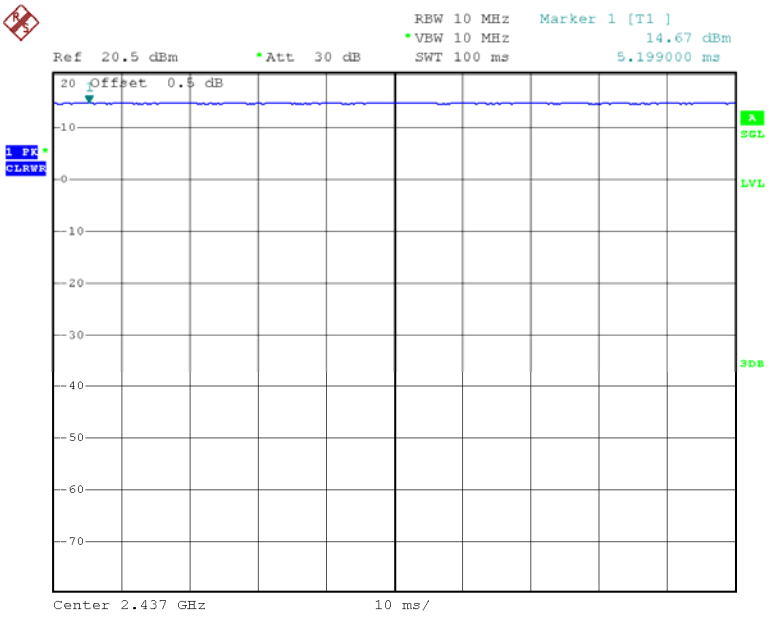
The software "MP_Kit_RTL11ac_8822U_MPTool.exe" was used for testing, which was provided by manufacturer. The maximum power was configured as below table, that provided by the manufacturer:

Mode	Channel	Frequency (MHz)	Data rate	Power level Setting	
				Chain 0 (Antenna 1)	Chain 1 (Antenna 2)
802.11b	Low	2412	1 Mbps	50	50
	Middle	2437	1 Mbps	51	50
	High	2462	1 Mbps	51	50
802.11g	Low	2412	6 Mbps	52	51
	Middle	2437	6 Mbps	53	52
	High	2462	6 Mbps	53	51
802.11n ht20	Low	2412	MCS8	53	53
	Middle	2437	MCS8	54	54
	High	2462	MCS8	54	54
802.11n ht40	Low	2422	MCS8	49	49
	Middle	2437	MCS8	49	49
	High	2452	MCS8	50	49

The maximum duty cycle as following table:

Test mode	T_{on} (ms)	T_{on+off} (ms)	Duty Cycle (%)
802.11b	100	100	100
802.11g	1.304	1.432	91.06
802.11n ht20	0.687	0.732	93.85
802.11n ht40	0.360	0.408	88.24

802.11b



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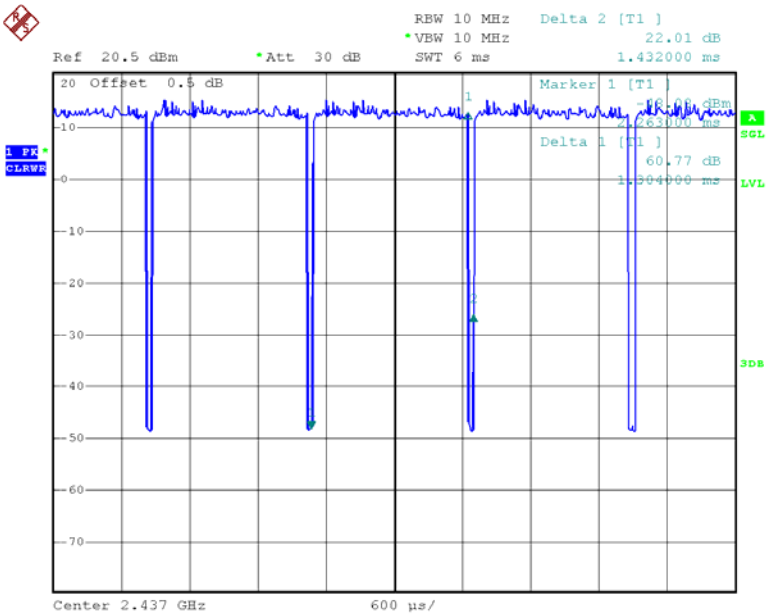
802.11g



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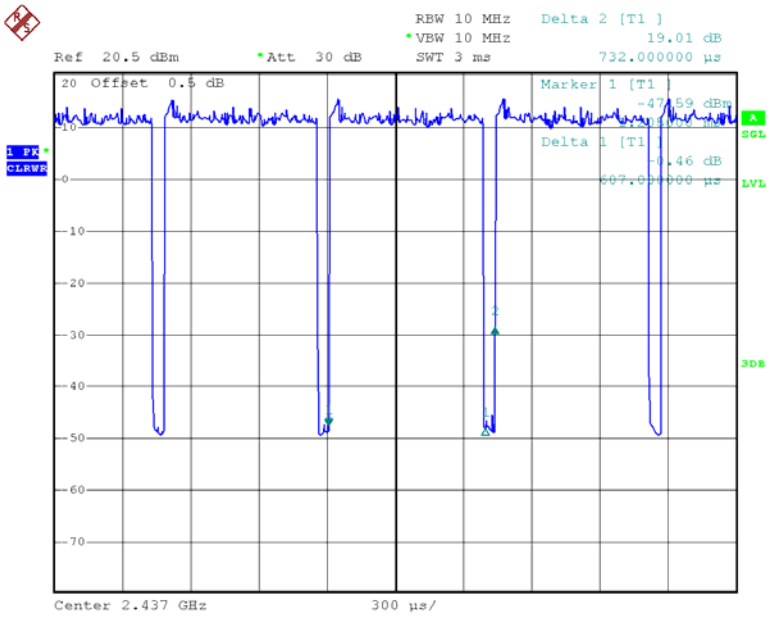
802.11n ht20



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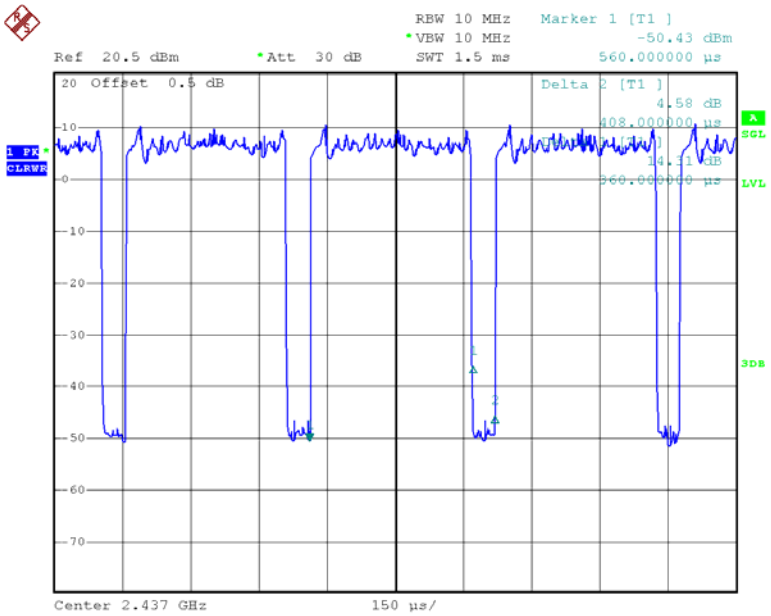
802.11n ht40



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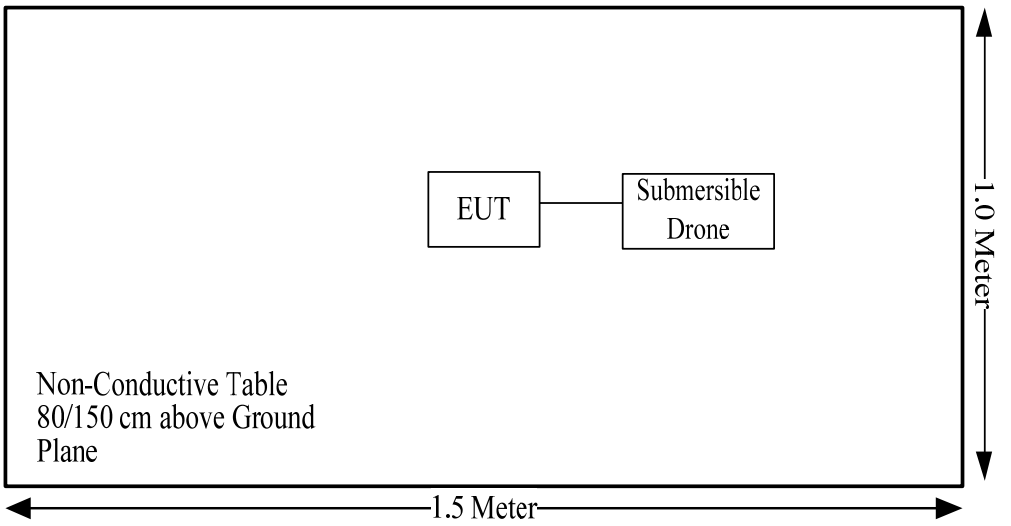
Equipment Modifications

No modification was made to the EUT.

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Buoy Cable	No	No	15	Submersible Drone	EUT

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.247 (i) & §1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	Compliance
§15.203	Antenna Requirement	Compliance
FCC §15.207 (a)	AC Line Conducted Emissions	Not Applicable
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB 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

Not Applicable: The EUT was powered by submersible drone.

FCC §15.247 (i) & §1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247(i)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/f²)	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.

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit
$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm^2);
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);

Calculated Data:

Frequency (MHz)	**Antenna Gain**		**Conducted output power including Tune-up Tolerance**		**Evaluation Distance (cm)**	**Power Density (mW/cm^2)**	**MPE Limit (mW/cm^2)**
	(dBi)	**(numeric)**	**(dBm)**	**(mW)**			
2412-2462	2	1.58	26	398.11	20.00	0.1251	1.0
5745-5825	2	1.58	18	63.10	20.00	0.0198	1.0

The WLAN 2.4G and 5G can`t transmit simultaneously

Result: Compliance, The device meets MPE requirement for Devices Used by the General Public (Uncontrolled Environment) at distance ≥20 cm.

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.
c. 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 two internal FPC antenna attached to the unit for 2.4GHz wifi, fulfill the requirement of this section. Please refer to the EUT photos.

Antenna Type	input impedance (Ohm)	Antenna Gain /Frequency Range
FPC	50	2.0 dBi/2.4~2.5GHz 2.0 dBi/5.725~5.85GHz

Result: Compliance.

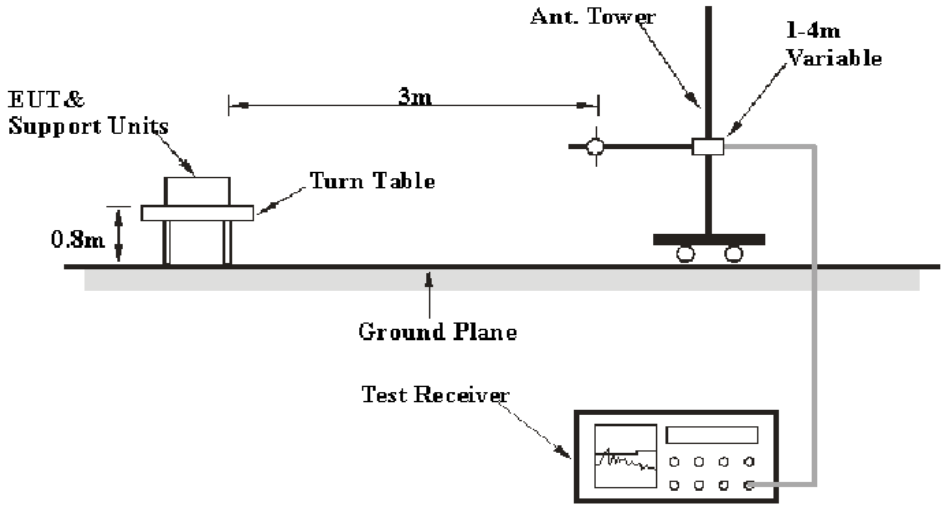
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

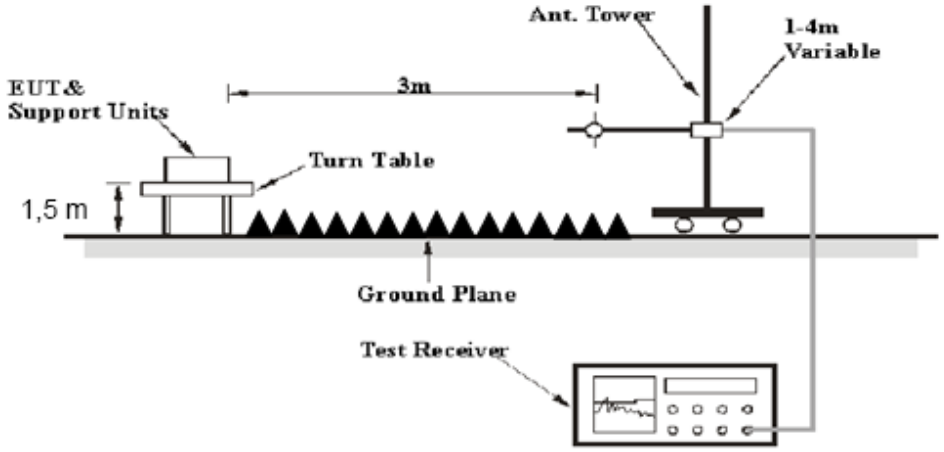
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission below 1GHz tests were performed in the 3 meters chamber A, above 1GHz tests were performed in the 3 meters chamber B, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

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 & Spectrum Analyzer Setup were set with the following configurations:

30MHz-1000MHz:

Measurement	RBW	Video B/W	IF B/W
QP	120 kHz	300 kHz	120kHz

1GHz- 25GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
AV	>98%	1MHz	10 Hz
	<98%	1MHz	1/T

Note: T is minimum transmission duration

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 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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiation Below 1GHz					
R&S	EMI Test Receiver	ESR3	102453	2019-06-26	2020-06-26
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Sunol Sciences	Antenna	JB3	A060611-1	2017-11-10	2020-11-10
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2019-05-06	2020-05-06
HP	Amplifier	8447D	2727A05902	2019-09-05	2020-09-05
Radiation Above 1GHz					
Agilent	Spectrum Analyzer	E4440A	SG43360054	2019-05-09	2020-05-09
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-01 1304	2016-11-18	2019-11-18
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-2.4J2.4J-50	C-0700-02	2019-06-27	2020-06-27
MITEQ	Amplifier	AFS42-00101800-25-S-42	2001271	2019-09-05	2020-09-05
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2019-06-27	2020-06-27
E-Microwave	Band-stop Filters	OBSF-2400-2483.5-S	OE01601525	2019-06-16	2020-06-16
Micro-tronics	High Pass Filter	HPM50111	S/N-G217	2019-06-16	2020-06-16

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

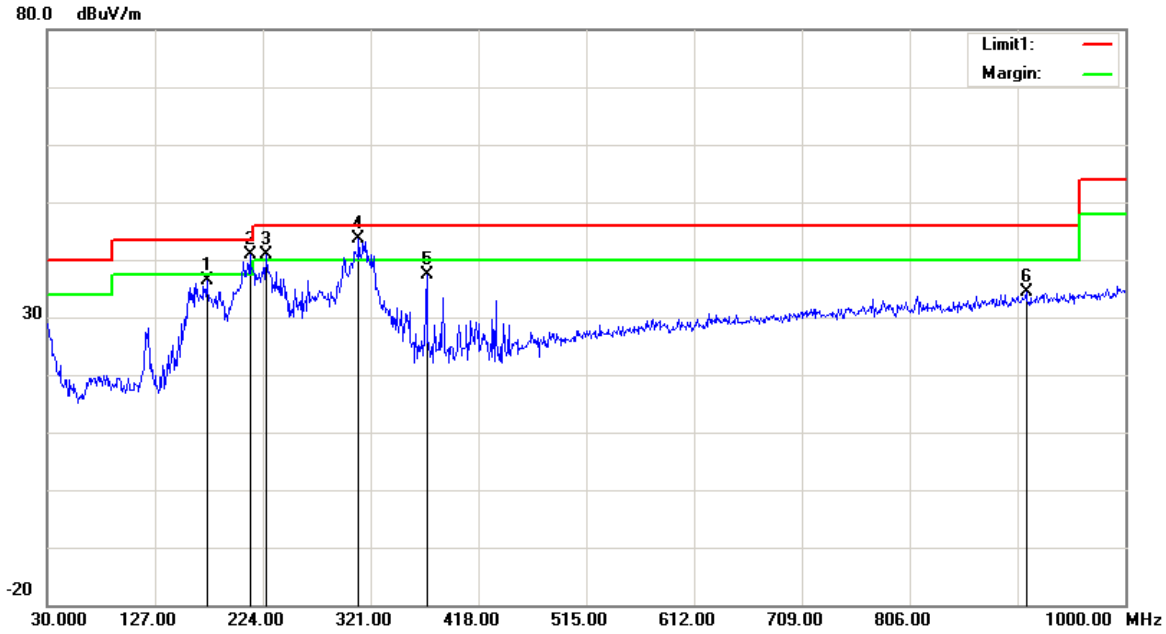
Test Items	Radiation Below 1GHz	Radiation Above 1GHz
Temperature:	27.9°C	26.9 °C
Relative Humidity:	52%	50 %
ATM Pressure:	100.1 kPa	101.2 kPa
Tester:	Neil Liao	Tyler Pan
Test Date:	2019-10-17	2019-09-26

Test Result: Compliance, please Refer to the following data

Test Mode: Transmitting

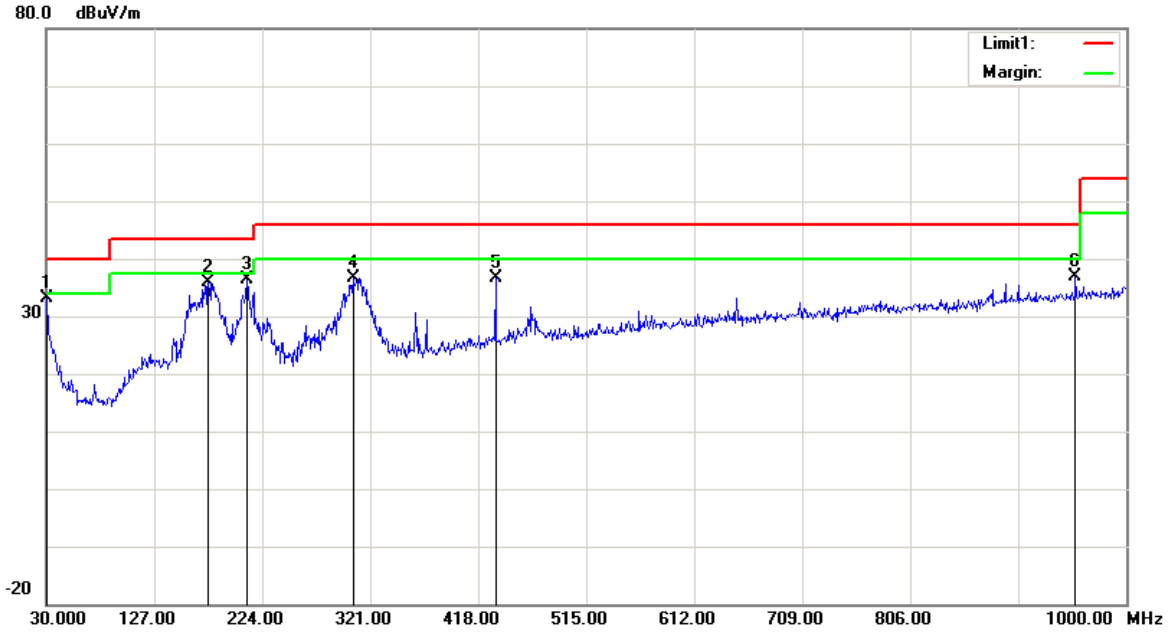
1) 30MHz-1GHz(802.11b mode low channel was the worst)

Horizontal:



Frequency (MHz)	Receiver Reading (dBuV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
173.5600	43.24	peak	-6.85	36.39	43.50	7.11
212.3600	48.24	peak	-7.36	40.88	43.50	2.62
226.9100	47.39	peak	-6.63	40.76	46.00	5.24
310.3300	47.19	peak	-3.58	43.61	46.00	2.39
371.4400	40.22	peak	-2.75	37.47	46.00	8.53
910.7600	34.24	peak	0.25	34.49	46.00	11.51

Vertical:



Frequency (MHz)	Receiver Reading (dBuV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.9700	32.27	peak	0.91	33.18	40.00	6.82
175.5000	42.85	peak	-6.88	35.97	43.50	7.53
210.4200	43.76	peak	-7.37	36.39	43.50	7.11
305.4800	40.44	peak	-3.70	36.74	46.00	9.26
433.5200	37.81	peak	-1.23	36.58	46.00	9.42
954.4100	36.00	peak	0.82	36.82	46.00	9.18

2) 1-25GHz:

802.11b Mode Chain 0:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2412 MHz									
2412.00	79.33	PK	H	28.12	1.81	0.00	109.26	N/A	N/A
2412.00	75.36	AV	H	28.12	1.81	0.00	105.29	N/A	N/A
2412.00	71.65	PK	V	28.12	1.81	0.00	101.58	N/A	N/A
2412.00	67.84	AV	V	28.12	1.81	0.00	97.77	N/A	N/A
2390.00	29.57	PK	H	28.08	1.80	0.00	59.45	74.00	14.55
2390.00	14.67	AV	H	28.08	1.80	0.00	44.55	54.00	9.45
4824.00	48.56	PK	H	32.95	3.19	37.20	47.50	74.00	26.50
4824.00	38.99	AV	H	32.95	3.19	37.20	37.93	54.00	16.07
7236.00	46.37	PK	H	35.81	4.77	37.27	49.68	74.00	24.32
7236.00	34.10	AV	H	35.81	4.77	37.27	37.41	54.00	16.59
Middle Channel: 2437 MHz									
2437.00	78.73	PK	H	28.17	1.82	0.00	108.72	N/A	N/A
2437.00	74.69	AV	H	28.17	1.82	0.00	104.68	N/A	N/A
2437.00	71.13	PK	V	28.17	1.82	0.00	101.12	N/A	N/A
2437.00	67.21	AV	V	28.17	1.82	0.00	97.20	N/A	N/A
4874.00	48.37	PK	H	33.05	3.26	37.21	47.47	74.00	26.53
4874.00	38.57	AV	H	33.05	3.26	37.21	37.67	54.00	16.33
7311.00	46.40	PK	H	36.01	4.64	37.36	49.69	74.00	24.31
7311.00	33.86	AV	H	36.01	4.64	37.36	37.15	54.00	16.85
High Channel: 2462 MHz									
2462.00	78.54	PK	H	28.22	1.83	0.00	108.59	N/A	N/A
2462.00	74.67	AV	H	28.22	1.83	0.00	104.72	N/A	N/A
2462.00	71.11	PK	V	28.22	1.83	0.00	101.16	N/A	N/A
2462.00	67.20	AV	V	28.22	1.83	0.00	97.25	N/A	N/A
2483.50	27.65	PK	H	28.27	1.84	0.00	57.76	74.00	16.24
2483.50	14.13	AV	H	28.27	1.84	0.00	44.24	54.00	9.76
4924.00	48.45	PK	H	33.15	3.27	37.22	47.65	74.00	26.35
4924.00	38.89	AV	H	33.15	3.27	37.22	38.09	54.00	15.91
7386.00	45.99	PK	H	36.20	4.51	37.46	49.24	74.00	24.76
7386.00	33.54	AV	H	36.20	4.51	37.46	36.79	54.00	17.21

802.11b Mode Chain 1:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2412 MHz									
2412.00	79.29	PK	H	28.12	1.81	0.00	109.22	N/A	N/A
2412.00	75.37	AV	H	28.12	1.81	0.00	105.30	N/A	N/A
2412.00	72.21	PK	V	28.12	1.81	0.00	102.14	N/A	N/A
2412.00	68.29	AV	V	28.12	1.81	0.00	98.22	N/A	N/A
2390.00	28.70	PK	H	28.08	1.80	0.00	58.58	74.00	15.42
2390.00	14.50	AV	H	28.08	1.80	0.00	44.38	54.00	9.62
4824.00	48.93	PK	H	32.95	3.19	37.20	47.87	74.00	26.13
4824.00	40.77	AV	H	32.95	3.19	37.20	39.71	54.00	14.29
7236.00	46.76	PK	H	35.81	4.77	37.27	50.07	74.00	23.93
7236.00	34.24	AV	H	35.81	4.77	37.27	37.55	54.00	16.45
Middle Channel: 2437 MHz									
2437.00	79.41	PK	H	28.17	1.82	0.00	109.40	N/A	N/A
2437.00	75.54	AV	H	28.17	1.82	0.00	105.53	N/A	N/A
2437.00	72.17	PK	V	28.17	1.82	0.00	102.16	N/A	N/A
2437.00	68.10	AV	V	28.17	1.82	0.00	98.09	N/A	N/A
4874.00	49.23	PK	H	33.05	3.26	37.21	48.33	74.00	25.67
4874.00	39.30	AV	H	33.05	3.26	37.21	38.40	54.00	15.60
7311.00	46.57	PK	H	36.01	4.64	37.36	49.86	74.00	24.14
7311.00	34.10	AV	H	36.01	4.64	37.36	37.39	54.00	16.61
High Channel: 2462 MHz									
2462.00	80.09	PK	H	28.22	1.83	0.00	110.14	N/A	N/A
2462.00	76.23	AV	H	28.22	1.83	0.00	106.28	N/A	N/A
2462.00	72.71	PK	V	28.22	1.83	0.00	102.76	N/A	N/A
2462.00	68.56	AV	V	28.22	1.83	0.00	98.61	N/A	N/A
2483.50	27.98	PK	H	28.27	1.84	0.00	58.09	74.00	15.91
2483.50	14.43	AV	H	28.27	1.84	0.00	44.54	54.00	9.46
4924.00	49.54	PK	H	33.15	3.27	37.22	48.74	74.00	25.26
4924.00	39.60	AV	H	33.15	3.27	37.22	38.80	54.00	15.20
7386.00	45.79	PK	H	36.20	4.51	37.46	49.04	74.00	24.96
7386.00	33.34	AV	H	36.20	4.51	37.46	36.59	54.00	17.41

802.11g Mode Chain 0:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2412 MHz									
2412.00	79.38	PK	H	28.12	1.81	0.00	109.31	N/A	N/A
2412.00	70.22	AV	H	28.12	1.81	0.00	100.15	N/A	N/A
2412.00	71.64	PK	V	28.12	1.81	0.00	101.57	N/A	N/A
2412.00	62.48	AV	V	28.12	1.81	0.00	92.41	N/A	N/A
2390.00	38.68	PK	H	28.08	1.80	0.00	68.56	74.00	5.44
2390.00	20.95	AV	H	28.08	1.80	0.00	50.83	54.00	3.17
4824.00	47.64	PK	H	32.95	3.19	37.20	46.58	74.00	27.42
4824.00	35.12	AV	H	32.95	3.19	37.20	34.06	54.00	19.94
7236.00	46.27	PK	H	35.81	4.77	37.27	49.58	74.00	24.42
7236.00	33.57	AV	H	35.81	4.77	37.27	36.88	54.00	17.12
Middle Channel: 2437 MHz									
2437.00	79.89	PK	H	28.17	1.82	0.00	109.88	N/A	N/A
2437.00	70.75	AV	H	28.17	1.82	0.00	100.74	N/A	N/A
2437.00	72.05	PK	V	28.17	1.82	0.00	102.04	N/A	N/A
2437.00	62.89	AV	V	28.17	1.82	0.00	92.88	N/A	N/A
4874.00	47.53	PK	H	33.05	3.26	37.21	46.63	74.00	27.37
4874.00	35.04	AV	H	33.05	3.26	37.21	34.14	54.00	19.86
7311.00	45.88	PK	H	36.01	4.64	37.36	49.17	74.00	24.83
7311.00	33.41	AV	H	36.01	4.64	37.36	36.70	54.00	17.30
High Channel: 2462 MHz									
2462.00	78.37	PK	H	28.22	1.83	0.00	108.42	N/A	N/A
2462.00	69.01	AV	H	28.22	1.83	0.00	99.06	N/A	N/A
2462.00	71.89	PK	V	28.22	1.83	0.00	101.94	N/A	N/A
2462.00	62.78	AV	V	28.22	1.83	0.00	92.83	N/A	N/A
2483.50	36.51	PK	H	28.27	1.84	0.00	66.62	74.00	7.38
2483.50	19.74	AV	H	28.27	1.84	0.00	49.85	54.00	4.15
4924.00	47.28	PK	H	33.15	3.27	37.22	46.48	74.00	27.52
4924.00	34.77	AV	H	33.15	3.27	37.22	33.97	54.00	20.03
7386.00	46.27	PK	H	36.20	4.51	37.46	49.52	74.00	24.48
7386.00	33.85	AV	H	36.20	4.51	37.46	37.10	54.00	16.90

802.11g Mode Chain 1:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2412 MHz									
2412.00	78.94	PK	H	28.12	1.81	0.00	108.87	N/A	N/A
2412.00	69.67	AV	H	28.12	1.81	0.00	99.60	N/A	N/A
2412.00	71.57	PK	V	28.12	1.81	0.00	101.50	N/A	N/A
2412.00	62.14	AV	V	28.12	1.81	0.00	92.07	N/A	N/A
2390.00	37.50	PK	H	28.08	1.80	0.00	67.38	74.00	6.62
2390.00	20.31	AV	H	28.08	1.80	0.00	50.19	54.00	3.81
4824.00	47.78	PK	H	32.95	3.19	37.20	46.72	74.00	27.28
4824.00	35.24	AV	H	32.95	3.19	37.20	34.18	54.00	19.82
7236.00	46.33	PK	H	35.81	4.77	37.27	49.64	74.00	24.36
7236.00	33.84	AV	H	35.81	4.77	37.27	37.15	54.00	16.85
Middle Channel: 2437 MHz									
2437.00	79.48	PK	H	28.17	1.82	0.00	109.47	N/A	N/A
2437.00	69.97	AV	H	28.17	1.82	0.00	99.96	N/A	N/A
2437.00	72.23	PK	V	28.17	1.82	0.00	102.22	N/A	N/A
2437.00	63.09	AV	V	28.17	1.82	0.00	93.08	N/A	N/A
4874.00	47.99	PK	H	33.05	3.26	37.21	47.09	74.00	26.91
4874.00	35.45	AV	H	33.05	3.26	37.21	34.55	54.00	19.45
7311.00	46.87	PK	H	36.01	4.64	37.36	50.16	74.00	23.84
7311.00	34.58	AV	H	36.01	4.64	37.36	37.87	54.00	16.13
High Channel: 2462 MHz									
2462.00	79.30	PK	H	28.22	1.83	0.00	109.35	N/A	N/A
2462.00	70.15	AV	H	28.22	1.83	0.00	100.20	N/A	N/A
2462.00	71.86	PK	V	28.22	1.83	0.00	101.91	N/A	N/A
2462.00	62.37	AV	V	28.22	1.83	0.00	92.42	N/A	N/A
2483.50	39.43	PK	H	28.27	1.84	0.00	69.54	74.00	4.46
2483.50	21.86	AV	H	28.27	1.84	0.00	51.97	54.00	2.03
4924.00	46.37	PK	H	33.15	3.27	37.22	45.57	74.00	28.43
4924.00	33.84	AV	H	33.15	3.27	37.22	33.04	54.00	20.96
7386.00	45.99	PK	H	36.20	4.51	37.46	49.24	74.00	24.76
7386.00	33.47	AV	H	36.20	4.51	37.46	36.72	54.00	17.28

802.11n ht20 Mode(2Tx was the worst):

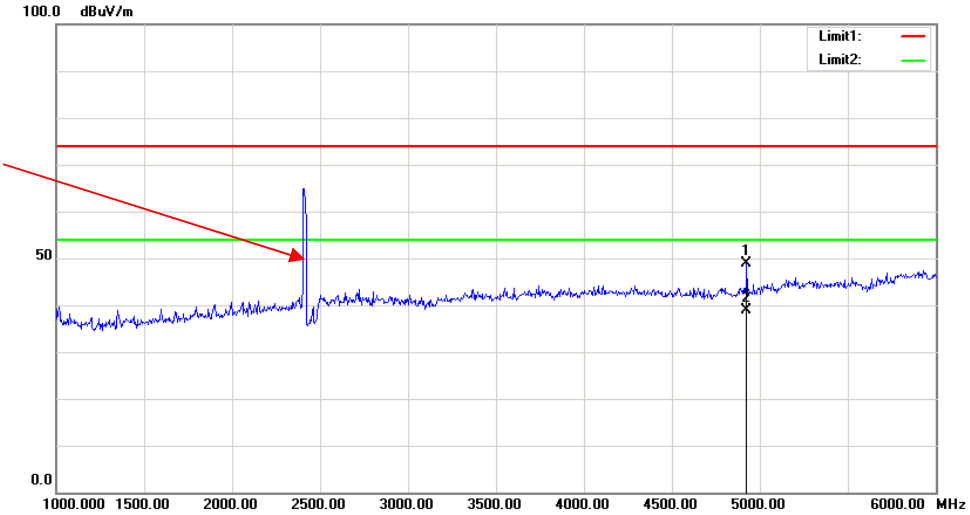
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2412 MHz									
2412.00	78.10	PK	H	28.12	1.81	0.00	108.03	N/A	N/A
2412.00	68.38	AV	H	28.12	1.81	0.00	98.31	N/A	N/A
2412.00	72.31	PK	V	28.12	1.81	0.00	102.24	N/A	N/A
2412.00	62.45	AV	V	28.12	1.81	0.00	92.38	N/A	N/A
2390.00	38.79	PK	H	28.08	1.80	0.00	68.67	74.00	5.33
2390.00	19.54	AV	H	28.08	1.80	0.00	49.42	54.00	4.58
4824.00	47.34	PK	H	32.95	3.19	37.20	46.28	74.00	27.72
4824.00	33.74	AV	H	32.95	3.19	37.20	32.68	54.00	21.32
7236.00	46.57	PK	H	35.81	4.77	37.27	49.88	74.00	24.12
7236.00	34.28	AV	H	35.81	4.77	37.27	37.59	54.00	16.41
Middle Channel: 2437 MHz									
2437.00	77.83	PK	H	28.17	1.82	0.00	107.82	N/A	N/A
2437.00	67.92	AV	H	28.17	1.82	0.00	97.91	N/A	N/A
2437.00	71.85	PK	V	28.17	1.82	0.00	101.84	N/A	N/A
2437.00	61.66	AV	V	28.17	1.82	0.00	91.65	N/A	N/A
4874.00	47.56	PK	H	33.05	3.26	37.21	46.66	74.00	27.34
4874.00	35.08	AV	H	33.05	3.26	37.21	34.18	54.00	19.82
7311.00	46.44	PK	H	36.01	4.64	37.36	49.73	74.00	24.27
7311.00	33.85	AV	H	36.01	4.64	37.36	37.14	54.00	16.86
High Channel: 2462 MHz									
2462.00	77.60	PK	H	28.22	1.83	0.00	107.65	N/A	N/A
2462.00	67.68	AV	H	28.22	1.83	0.00	97.73	N/A	N/A
2462.00	71.54	PK	V	28.22	1.83	0.00	101.59	N/A	N/A
2462.00	61.60	AV	V	28.22	1.83	0.00	91.65	N/A	N/A
2483.50	36.70	PK	H	28.27	1.84	0.00	66.81	74.00	7.19
2483.50	17.89	AV	H	28.27	1.84	0.00	48.00	54.00	6.00
4924.00	47.25	PK	H	33.15	3.27	37.22	46.45	74.00	27.55
4924.00	34.86	AV	H	33.15	3.27	37.22	34.06	54.00	19.94
7386.00	45.79	PK	H	36.20	4.51	37.46	49.04	74.00	24.96
7386.00	33.34	AV	H	36.20	4.51	37.46	36.59	54.00	17.41

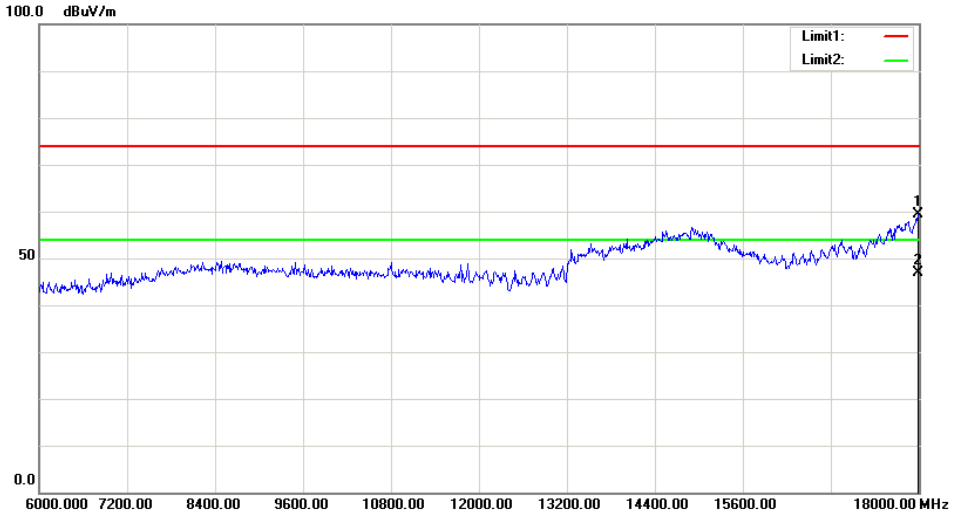
802.11n40 Mode(2Tx was the worst):

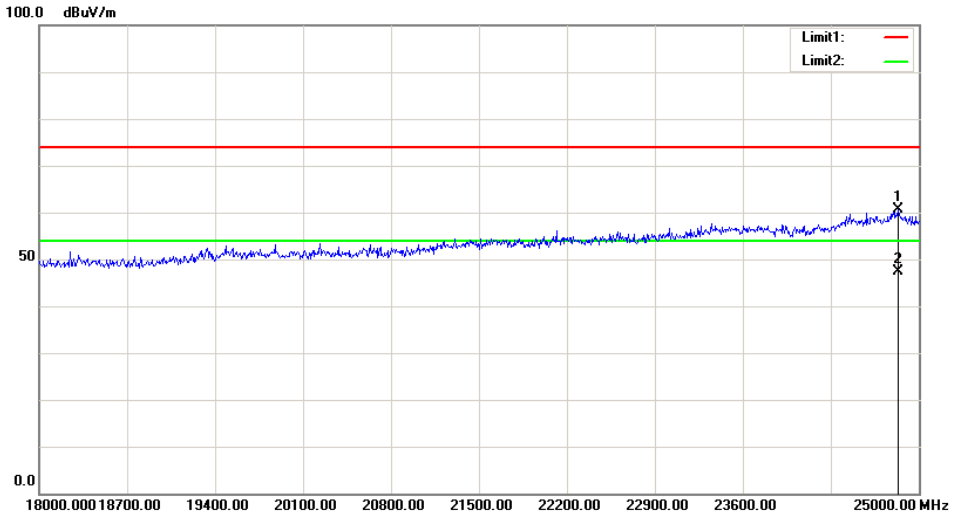
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2422 MHz									
2422.00	72.89	PK	H	28.14	1.81	0.00	102.84	N/A	N/A
2422.00	63.54	AV	H	28.14	1.81	0.00	93.49	N/A	N/A
2422.00	67.63	PK	V	28.14	1.81	0.00	97.58	N/A	N/A
2422.00	58.21	AV	V	28.14	1.81	0.00	88.16	N/A	N/A
2390.00	34.57	PK	H	28.08	1.80	0.00	64.45	74.00	9.55
2390.00	18.91	AV	H	28.08	1.80	0.00	48.79	54.00	5.21
4844.00	47.11	PK	H	32.99	3.22	37.20	46.12	74.00	27.88
4844.00	33.63	AV	H	32.99	3.22	37.20	32.64	54.00	21.36
7266.00	45.89	PK	H	35.89	4.72	37.31	49.19	74.00	24.81
7266.00	33.43	AV	H	35.89	4.72	37.31	36.73	54.00	17.27
Middle Channel: 2437 MHz									
2437.00	73.31	PK	H	28.17	1.82	0.00	103.30	N/A	N/A
2437.00	63.99	AV	H	28.17	1.82	0.00	93.98	N/A	N/A
2437.00	68.11	PK	V	28.17	1.82	0.00	98.10	N/A	N/A
2437.00	58.87	AV	V	28.17	1.82	0.00	88.86	N/A	N/A
4874.00	47.36	PK	H	33.05	3.26	37.21	46.46	74.00	27.54
4874.00	34.65	AV	H	33.05	3.26	37.21	33.75	54.00	20.25
7311.00	46.12	PK	H	36.01	4.64	37.36	49.41	74.00	24.59
7311.00	33.57	AV	H	36.01	4.64	37.36	36.86	54.00	17.14
High Channel: 2452 MHz									
2452.00	72.90	PK	H	28.20	1.83	0.00	102.93	N/A	N/A
2452.00	63.45	AV	H	28.20	1.83	0.00	93.48	N/A	N/A
2452.00	67.28	PK	V	28.20	1.83	0.00	97.31	N/A	N/A
2452.00	57.76	AV	V	28.20	1.83	0.00	87.79	N/A	N/A
2483.50	33.20	PK	H	28.27	1.84	0.00	63.31	74.00	10.69
2483.50	16.99	AV	H	28.27	1.84	0.00	47.10	54.00	6.90
4904.00	46.93	PK	H	33.11	3.30	37.21	46.13	74.00	27.87
4904.00	34.56	AV	H	33.11	3.30	37.21	33.76	54.00	20.24
7356.00	46.43	PK	H	36.13	4.56	37.42	49.70	74.00	24.30
7356.00	33.82	AV	H	36.13	4.56	37.42	37.09	54.00	16.91

Test plots(802.11b Low channel Chain 1 was the worst)
Horizontal:

Fundamental Test with Band Rejection Filter

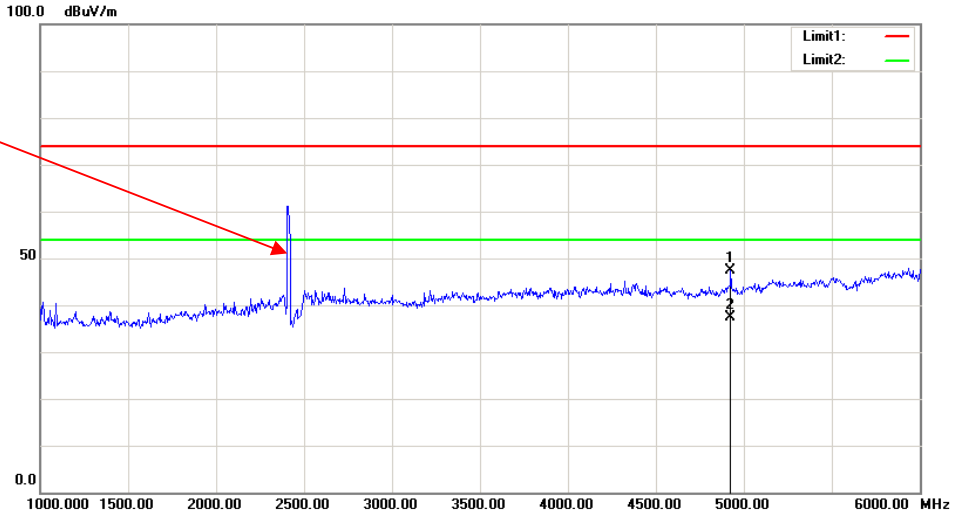


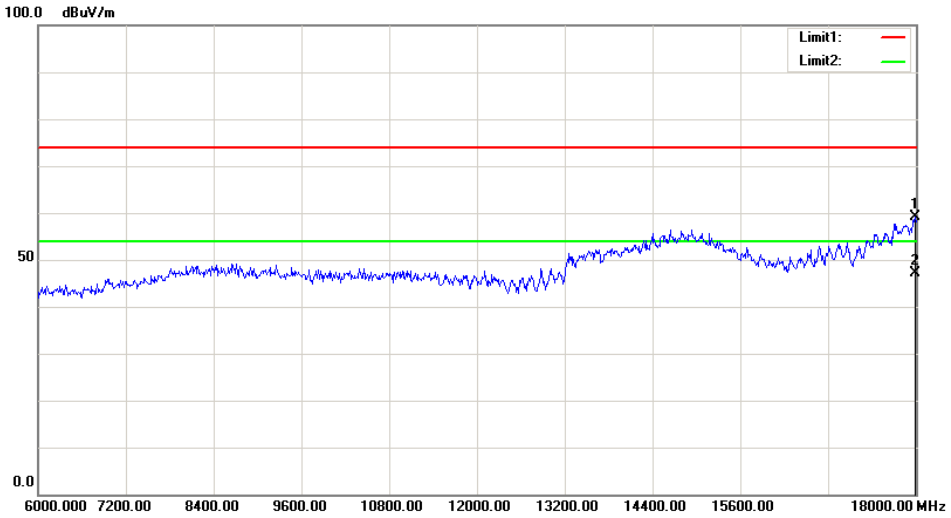


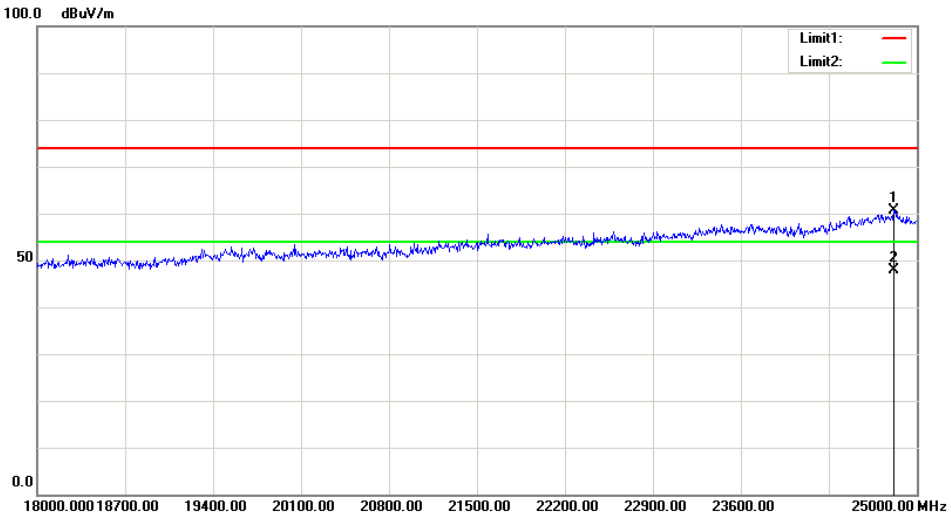


Vertical:

Fundamental Test with Band Rejection Filter







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

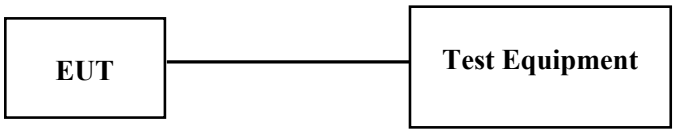
Applicable Standard

According to FCC §15.247(a) (2)

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) ≥ 3×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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2019-05-09	2020-05-09
Unknown	Coaxial Cable	C-SJ00-0010	C0010/03	Each time	N/A
E-Microwave	Blocking Control	EMDCB-00036	0E01201048	2019-05-06	2020-05-06

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

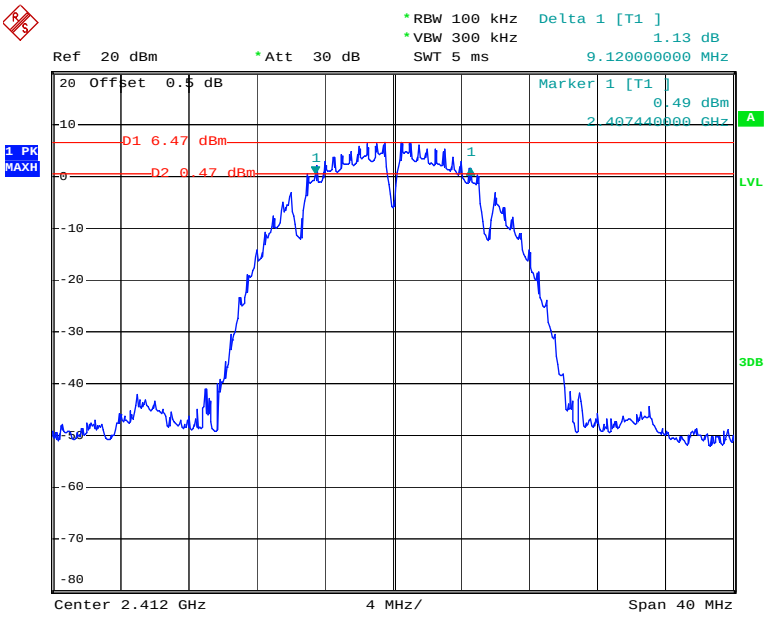
Temperature:	26.7 °C
Relative Humidity:	58 %
ATM Pressure:	100.8 kPa
Tester:	Chris Mo
Test Date:	2019-09-19

Test Mode: Transmitting

Test Result: Compliance. Test only performed at chain 0, please refer to the following table and plots.

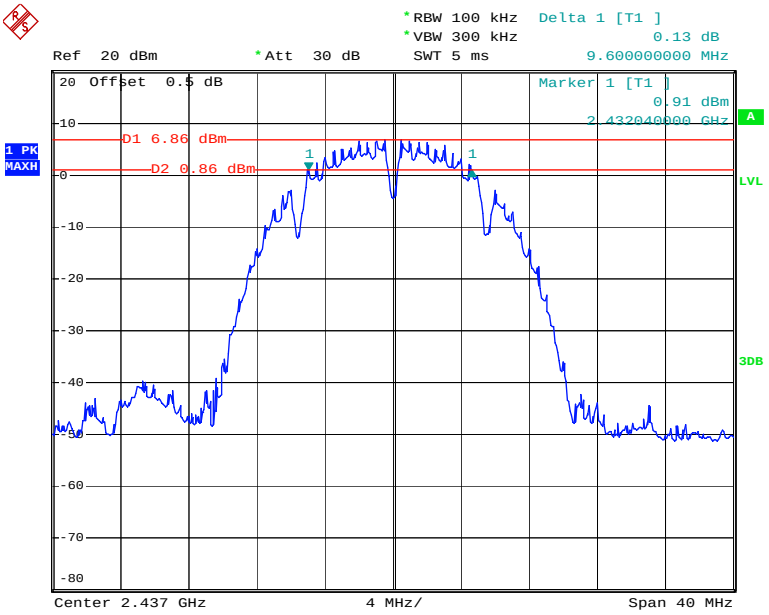
Test mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	Low	2412	9.120	≥0.5
	Middle	2437	9.600	≥0.5
	High	2462	9.600	≥0.5
802.11g	Low	2412	16.160	≥0.5
	Middle	2437	16.240	≥0.5
	High	2462	16.160	≥0.5
802.11n ht20	Low	2412	16.800	≥0.5
	Middle	2437	16.640	≥0.5
	High	2462	16.960	≥0.5
802.11n ht40	Low	2422	36.160	≥0.5
	Middle	2437	36.000	≥0.5
	High	2452	36.000	≥0.5

802.11b Low Channel



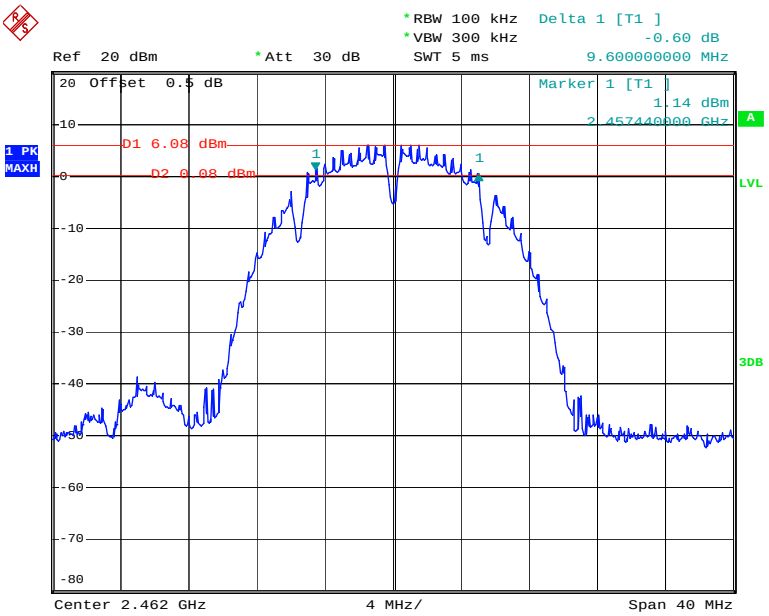
Date: 19.SEP.2019 13:40:03

802.11b Middle Channel



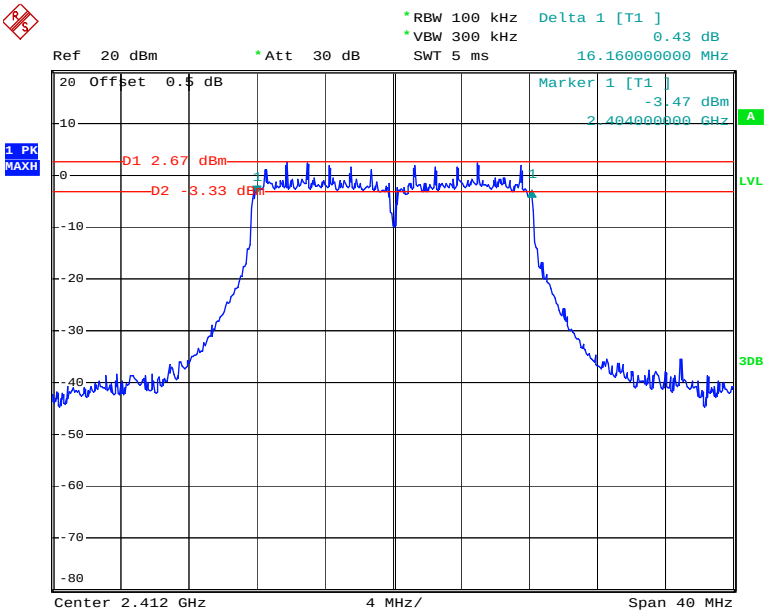
Date: 19.SEP.2019 13:42:45

802.11b High Channel



Date: 19.SEP.2019 13:44:23

802.11g Low Channel



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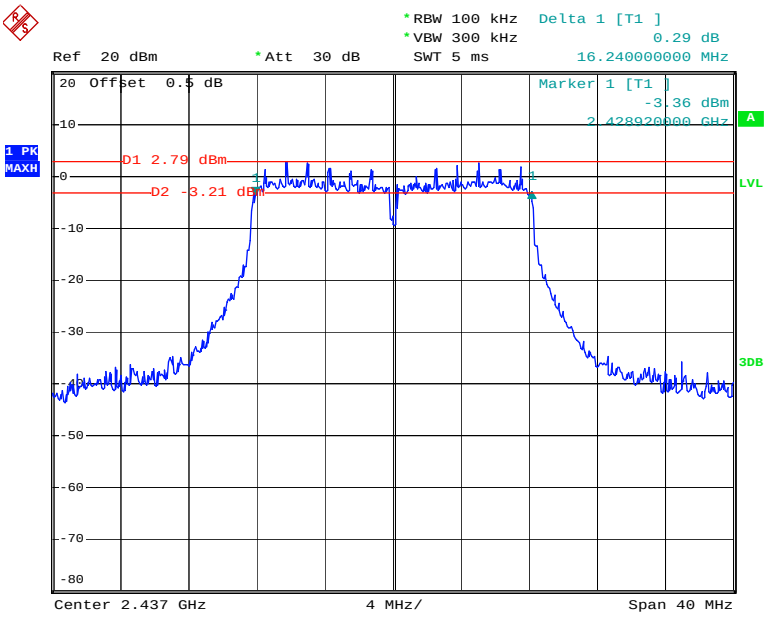
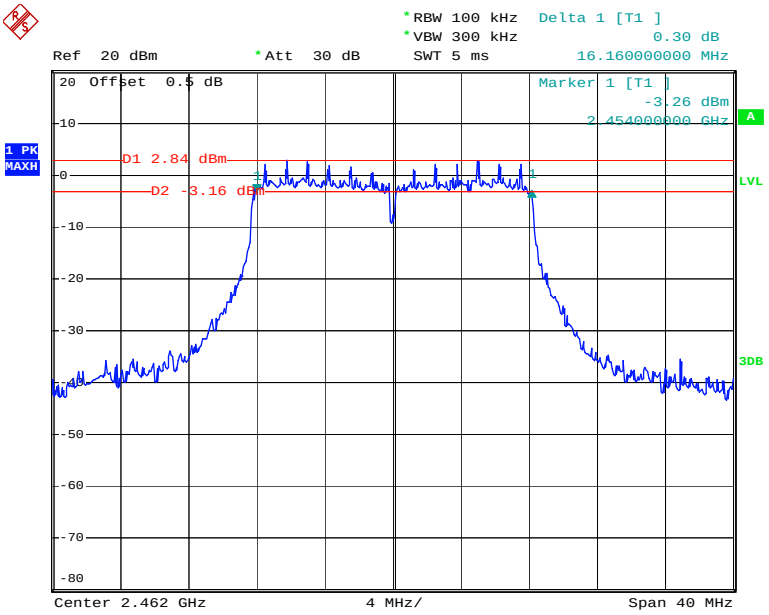
802.11g Middle Channel



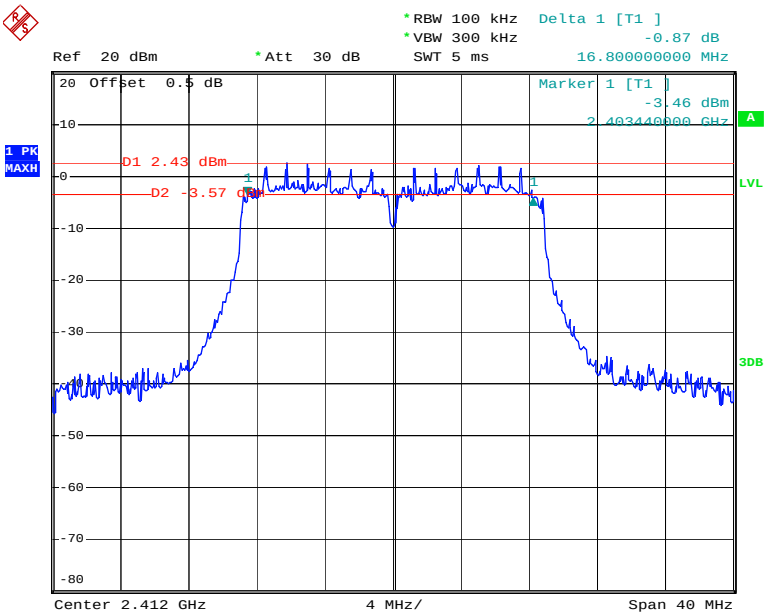
Date: 19.SEP.2019 13:23:00

802.11g High Channel



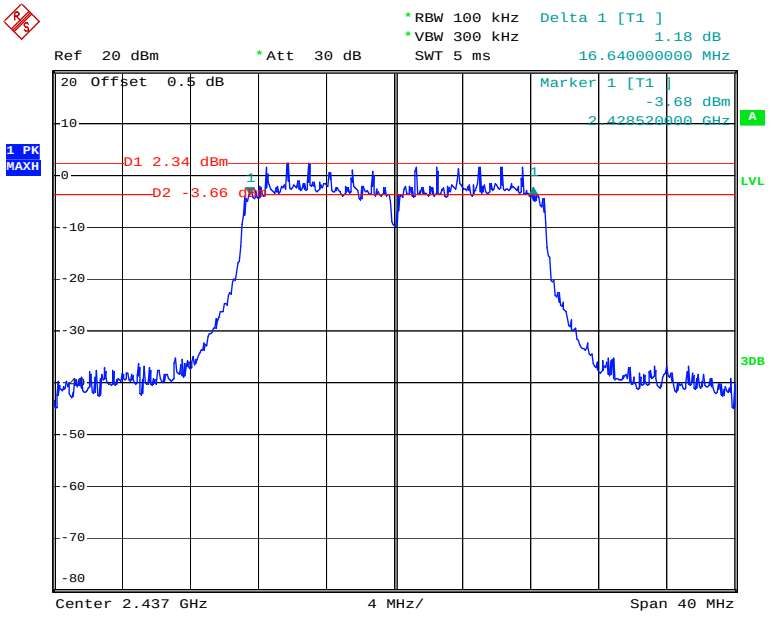
Date: 19.SEP.2019 13:25:15

802.11n ht20 Low Channel



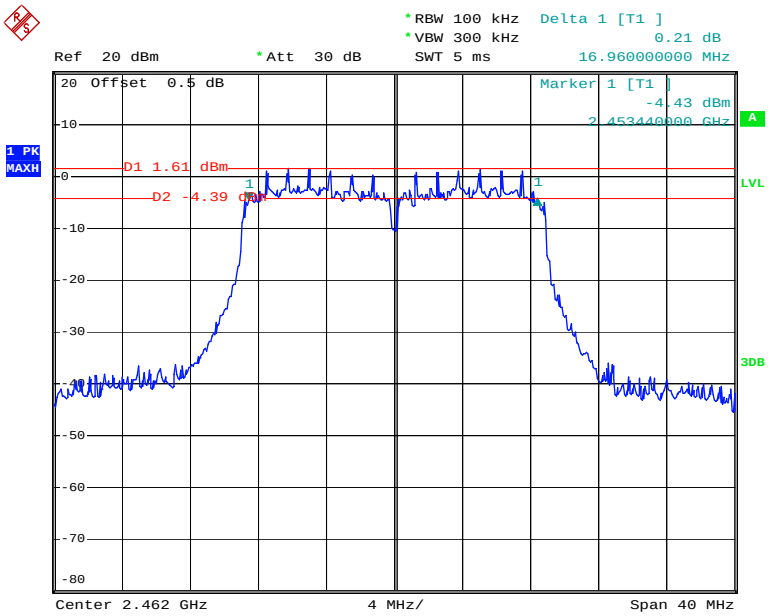
Date: 19.SEP.2019 13:26:57

802.11n ht20 Middle Channel



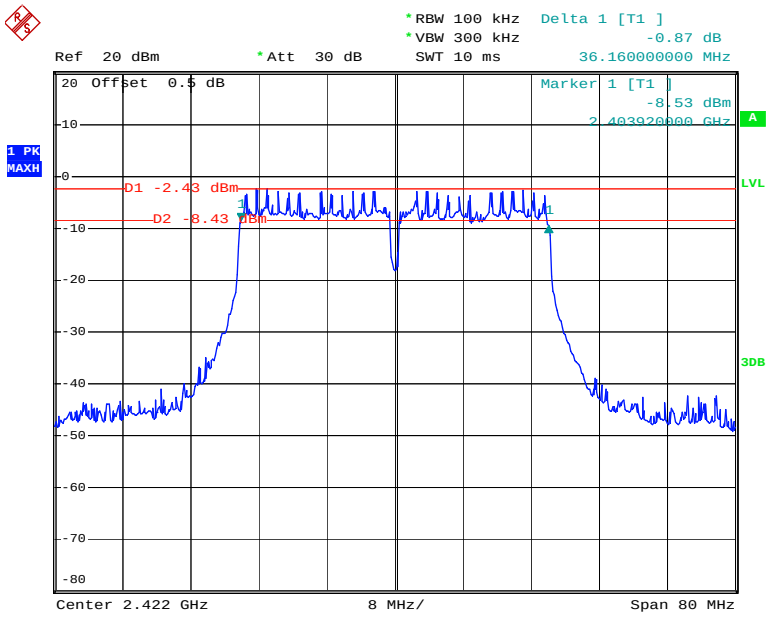
Date: 19.SEP.2019 13:28:16

802.11n ht20 High Channel



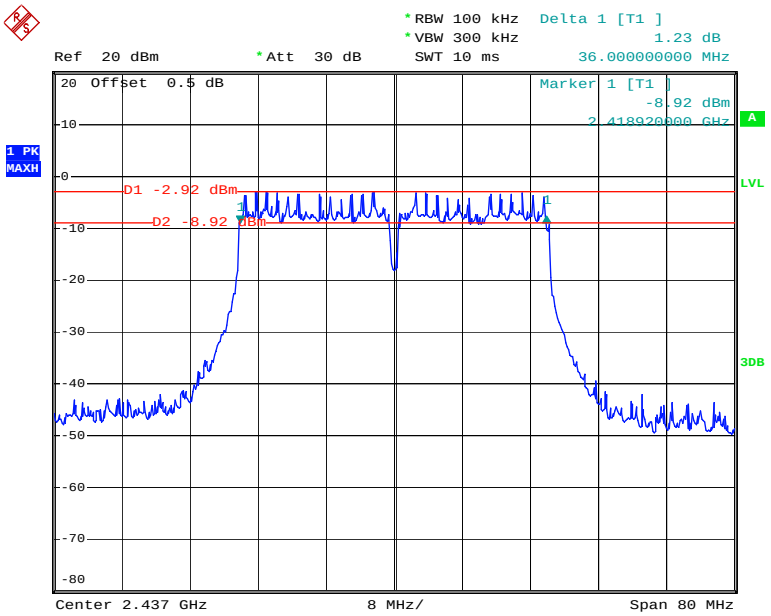
Date: 19.SEP.2019 13:29:32

802.11n ht40 Low Channel



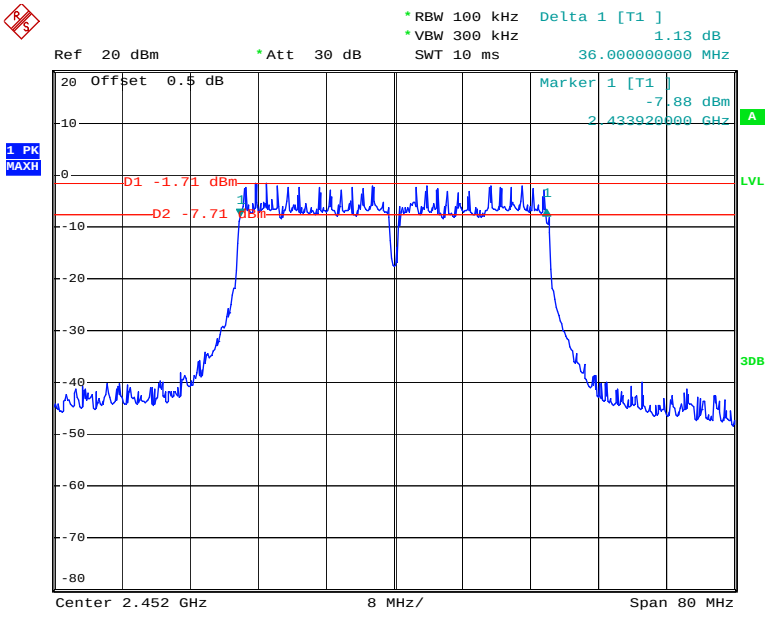
Date: 19.SEP.2019 13:31:34

802.11n ht40 Middle Channel



Date: 19.SEP.2019 13:33:19

802.11n ht40 High Channel



Date: 19.SEP.2019 13:37:13

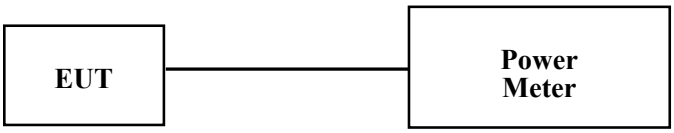
FCC §15.247(b) (3) - MAXIMUM PEAK CONDUCTED OUTPUT POWER

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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	USB Wideband Power Sensor	U2021XA	MY5425009	2019-05-09	2020-05-09
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
E-Microwave	Blocking Control	EMDCB-00036	0E01201048	2019-05-06	2020-05-06
E-Microwave	Coaxial Attenuators	EMCA10-5RN-6	OE01203239	2019-09-06	2020-09-06

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	26.7 °C
Relative Humidity:	58 %
ATM Pressure:	100.8 kPa
Tester:	Chris Mo
Test Date:	2019-09-19

Test Mode: Transmitting

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

Test mode	Frequency (MHz)	Max Peak Conducted Output Power (dBm)			Limit (dBm)
		Chain 0	Chain 1	Total	
802.11b	2412	19.86	19.66	/	30
	2437	19.88	19.18	/	30
	2462	19.50	19.08	/	30
802.11g	2412	23.04	22.82	/	30
	2437	23.00	22.97	/	30
	2462	22.70	23.05	/	30
802.11n ht20	2412	22.37	22.64	25.52	30
	2437	22.52	22.31	25.43	30
	2462	22.14	22.48	25.32	30
802.11n ht40	2422	22.22	22.74	25.50	30
	2437	21.94	22.69	25.34	30
	2452	22.08	22.59	25.35	30

Note:
The maximum antenna gain is 2.0 dBi. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;

So:

Directional gain = G_{ANT} + Array Gain = 2.0 dBi < 6dBi

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

Applicable Standard

According to FCC§15.247(d):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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2019-05-09	2020-05-09
Unknown	Coaxial Cable	C-SJ00-0010	C0010/03	Each time	N/A
E-Microwave	Blocking Control	EMDCB-00036	0E01201048	2019-05-06	2020-05-06

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

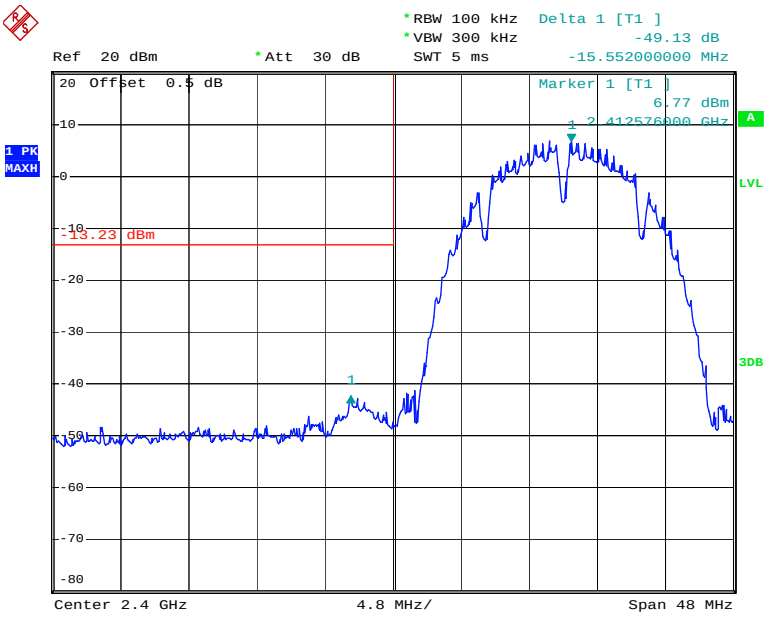
Environmental Conditions

Temperature:	26.7 °C
Relative Humidity:	58 %
ATM Pressure:	100.8 kPa
Tester:	Chris Mo
Test Date:	2019-09-19

Test mode: Transmitting

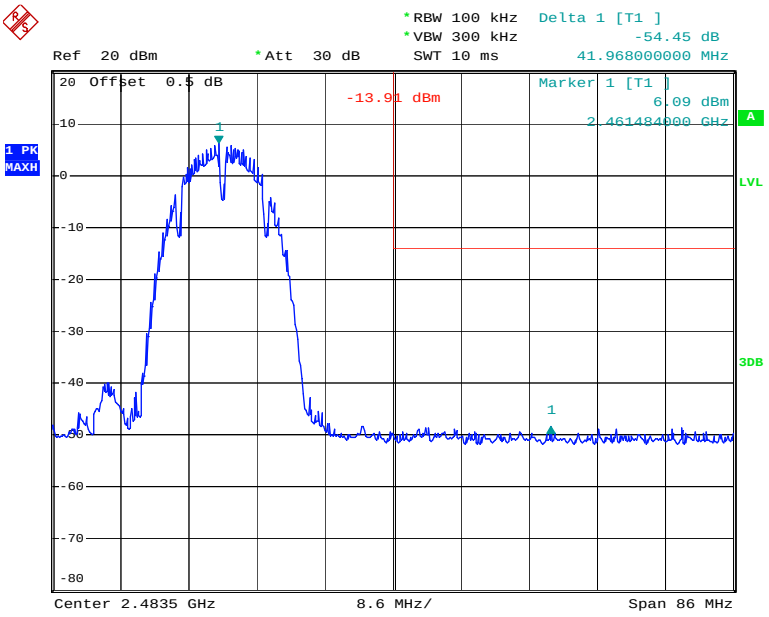
Test Result: Compliance.
Chain 0:

802.11b: Band Edge, Left Side



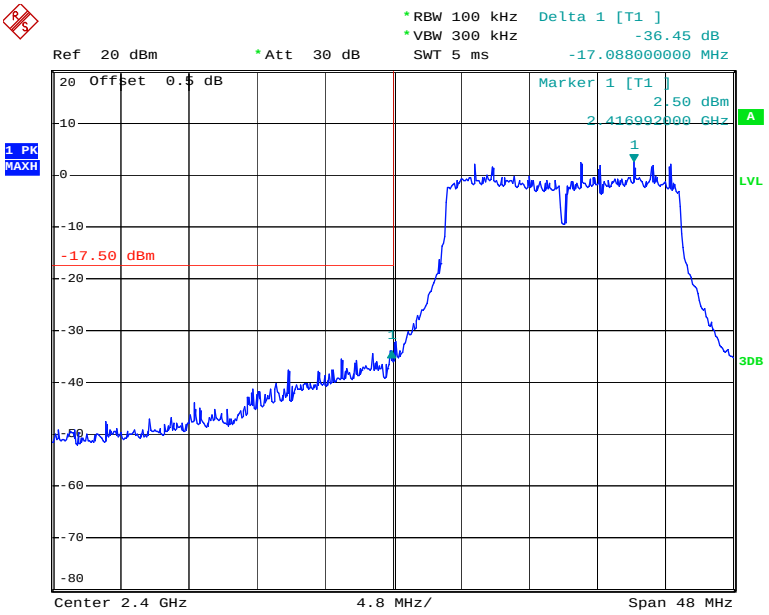
Date: 19.SEP.2019 13:46:30

802.11b: Band Edge, Right Side



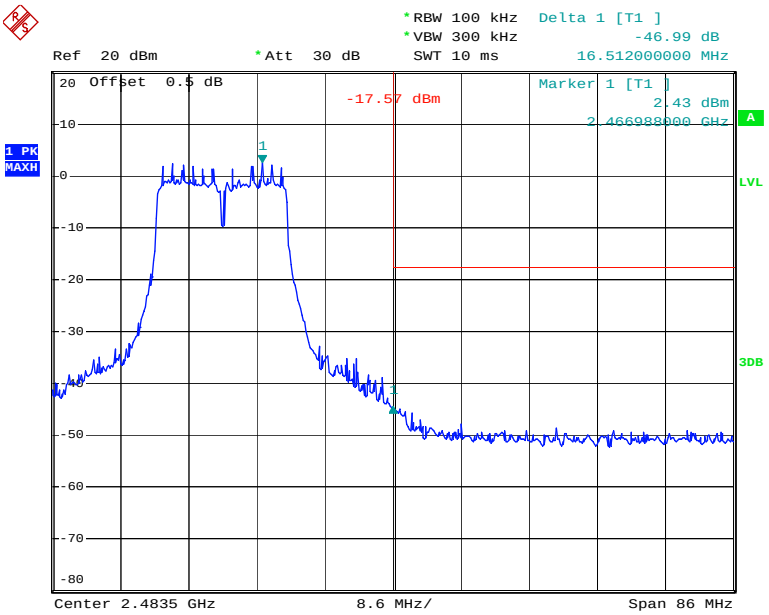
Date: 19.SEP.2019 13:45:48

802.11g: Band Edge, Left Side



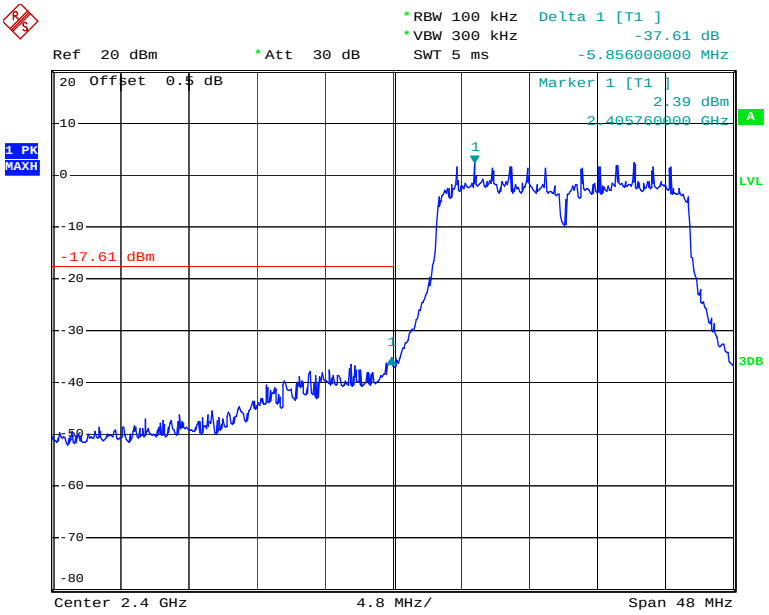
Date: 19.SEP.2019 13:47:27

802.11g: Band Edge, Right Side



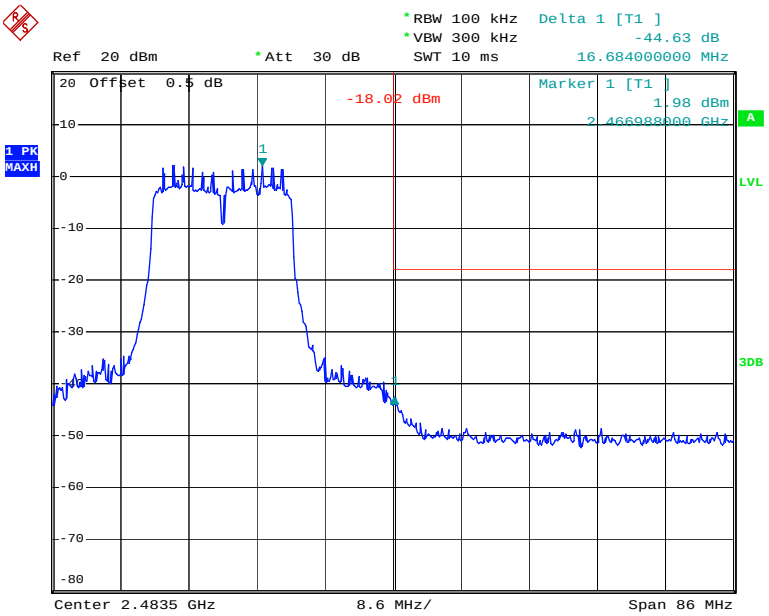
Date: 19.SEP.2019 13:48:08

802.11n ht20 Band Edge, Left Side



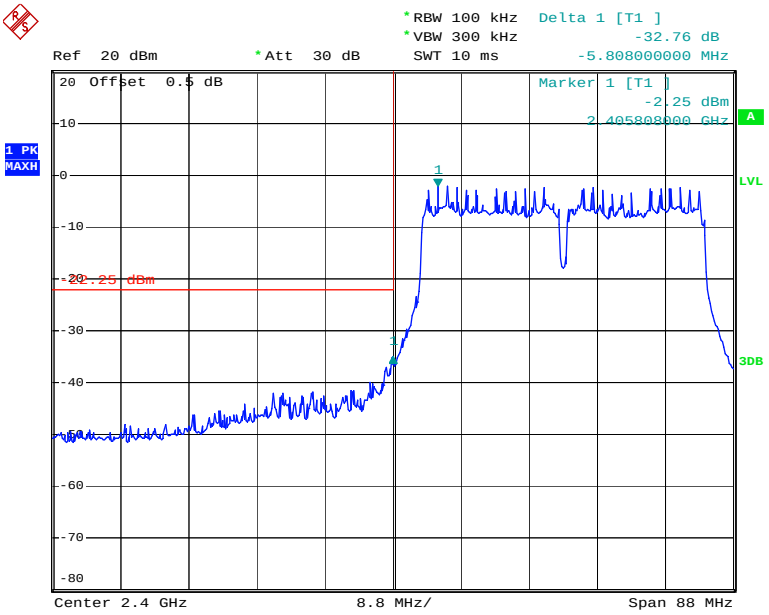
Date: 19.SEP.2019 13:48:54

802.11n ht20 Band Edge, Right Side



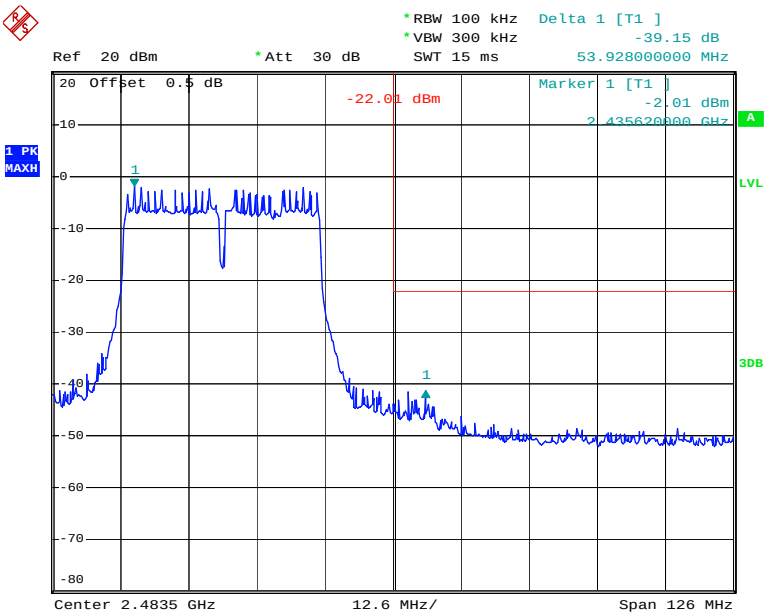
Date: 19.SEP.2019 13:49:38

802.11n ht40 Band Edge, Left Side



Date: 19.SEP.2019 13:50:27

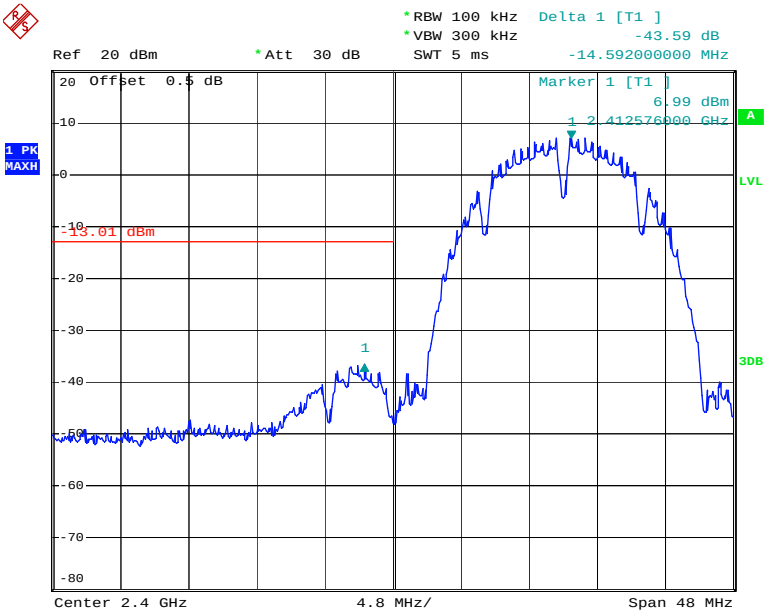
802.11n ht40 Band Edge, Right Side



Date: 19.SEP.2019 13:51:15

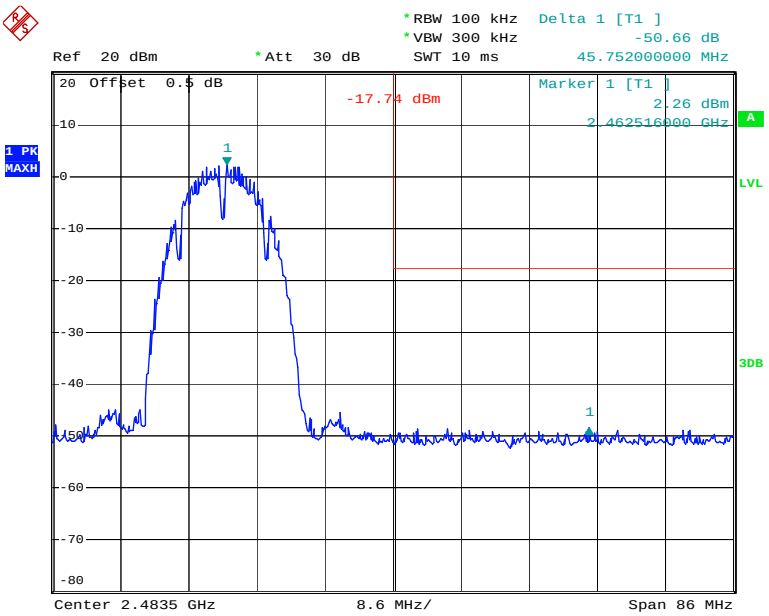
Chain 1:

802.11b: Band Edge, Left Side



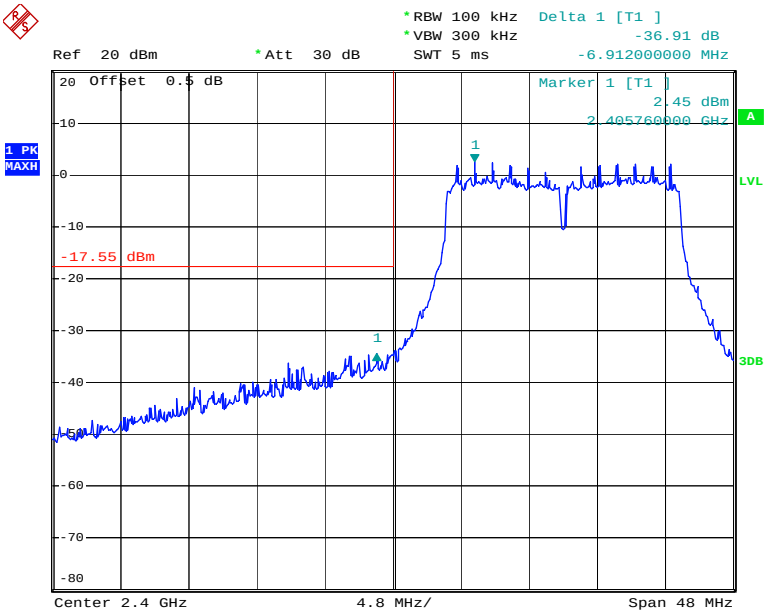
Date: 19.SEP.2019 13:54:03

802.11b: Band Edge, Right Side



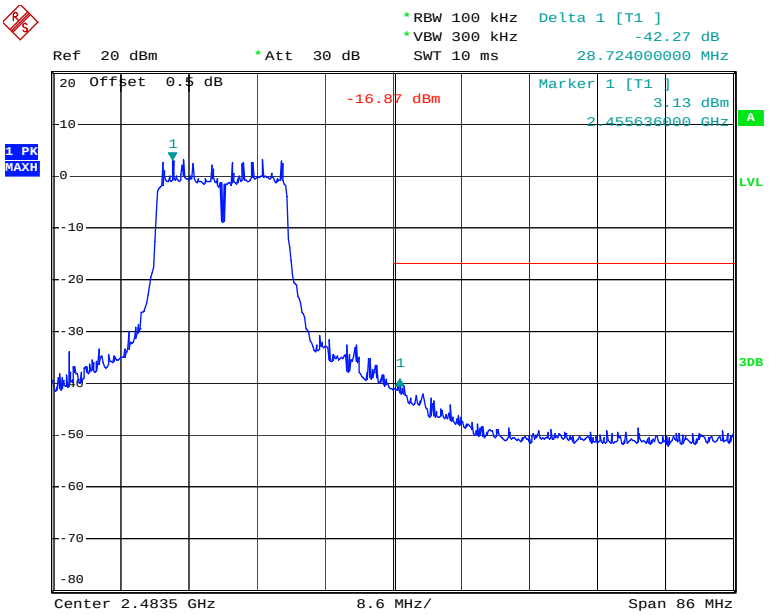
Date: 19.SEP.2019 13:54:33

802.11g: Band Edge, Left Side



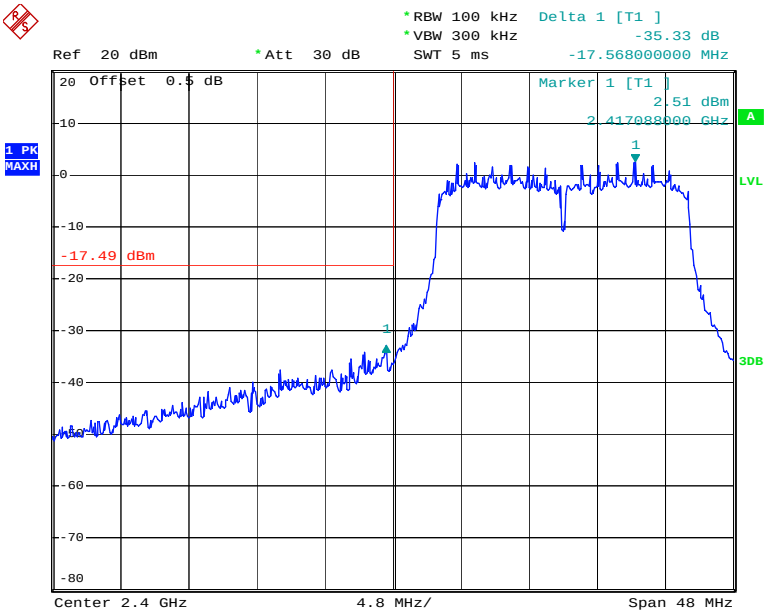
Date: 19.SEP.2019 13:55:12

802.11g: Band Edge, Right Side



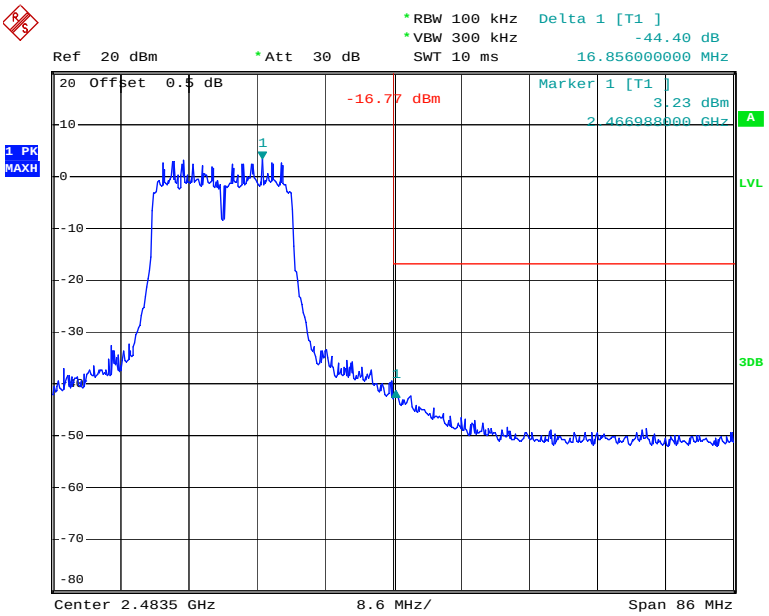
Date: 19.SEP.2019 13:55:46

802.11n ht20 Band Edge, Left Side



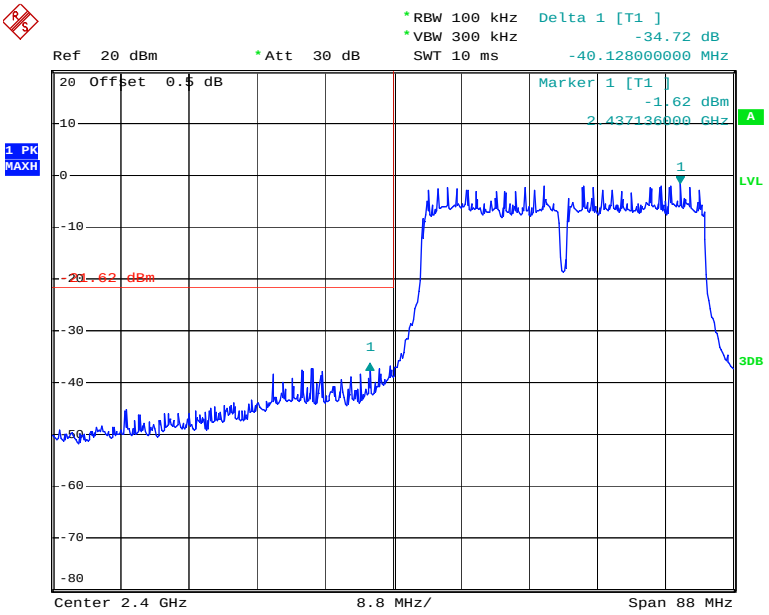
Date: 19.SEP.2019 13:56:38

802.11n ht20 Band Edge, Right Side



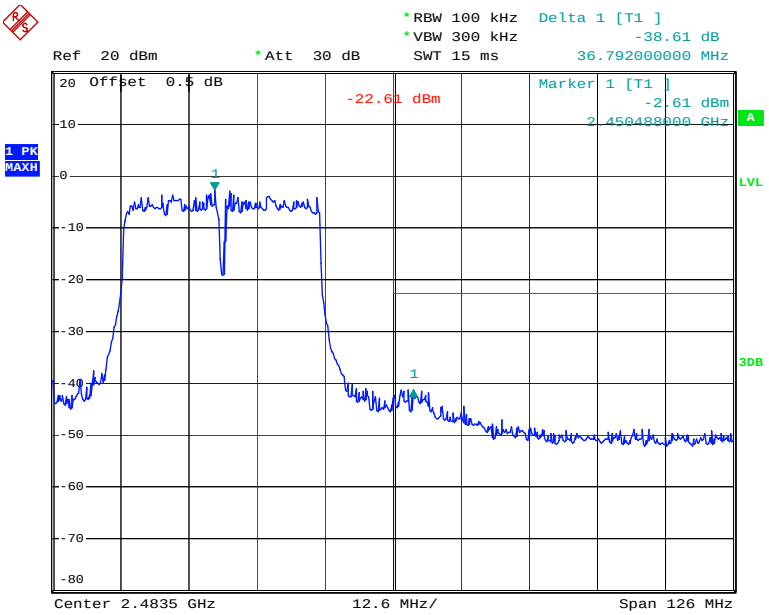
Date: 19.SEP.2019 13:57:18

802.11n ht40 Band Edge, Left Side



Date: 19.SEP.2019 13:53:09

802.11n ht40 Band Edge, Right Side



Date: 19.SEP.2019 13:52:09

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT was set 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 the RBW = 3 kHz, VBW = 10 kHz, Set the span to 1.5 times the DTS bandwidth.
4. Use the peak marker function to determine the maximum amplitude level.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2019-05-09	2020-05-09
Unknown	Coaxial Cable	C-SJ00-0010	C0010/03	Each time	N/A
E-Microwave	Blocking Control	EMDCB-00036	0E01201048	2019-05-06	2020-05-06

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	26.7 °C
Relative Humidity:	58 %
ATM Pressure:	100.8 kPa
Tester:	Chris Mo
Test Date:	2019-09-19

Test Mode: Transmitting

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

Test mode	Frequency (MHz)	Power Spectral Density (dBm/3kHz)			Limit (dBm/3kHz)
		Chain 0	Chain 1	Total	
802.11b	2412	-7.27	-6.51	/	≤8
	2437	-6.98	-6.47	/	≤8
	2462	-8.00	-6.43	/	≤8
802.11g	2412	-11.60	-11.98	/	≤8
	2437	-11.44	-10.84	/	≤8
	2462	-11.69	-10.83	/	≤8
802.11n ht20	2412	-13.30	-13.31	-10.29	≤8
	2437	-13.06	-12.60	-9.81	≤8
	2462	-13.55	-12.90	-10.2	≤8
802.11n ht40	2422	-16.92	-16.54	-13.72	≤8
	2437	-17.06	-16.27	-13.64	≤8
	2452	-16.16	-16.51	-13.32	≤8

Note:The maximum antenna gain is 2.0 dBi. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

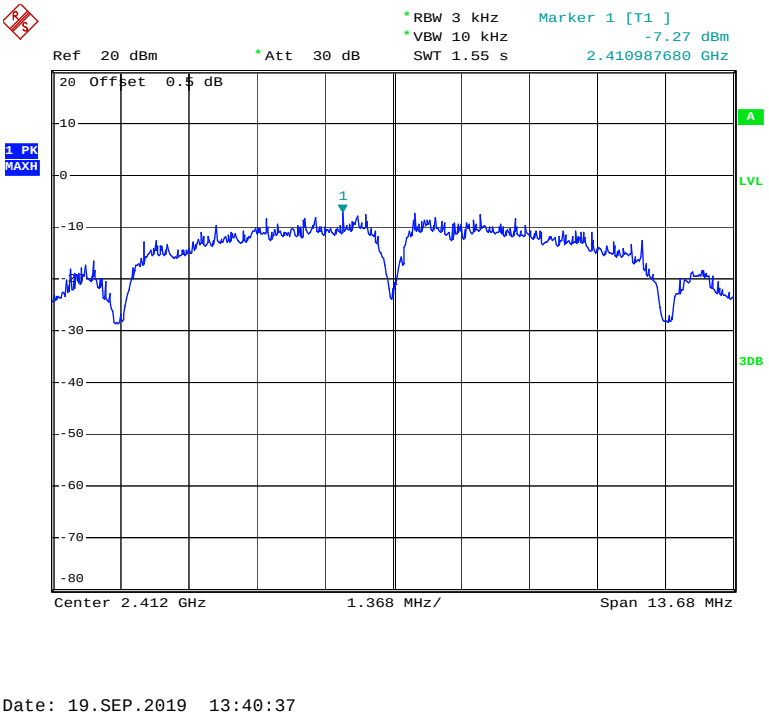
Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

So:

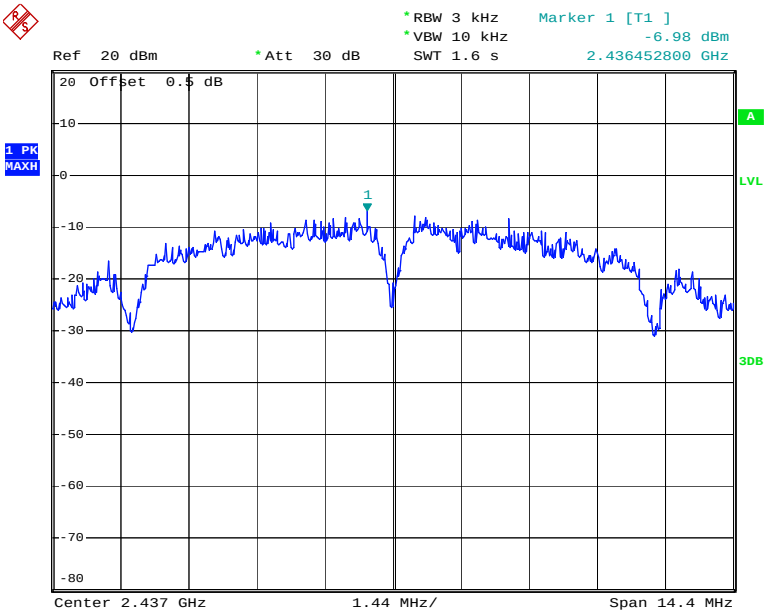
Directional gain = G_{ANT} + Array Gain =2.0dBi+10*log(2/1)=5.0dBi

Chain 0:

Power Spectral Density, 802.11b Low Channel

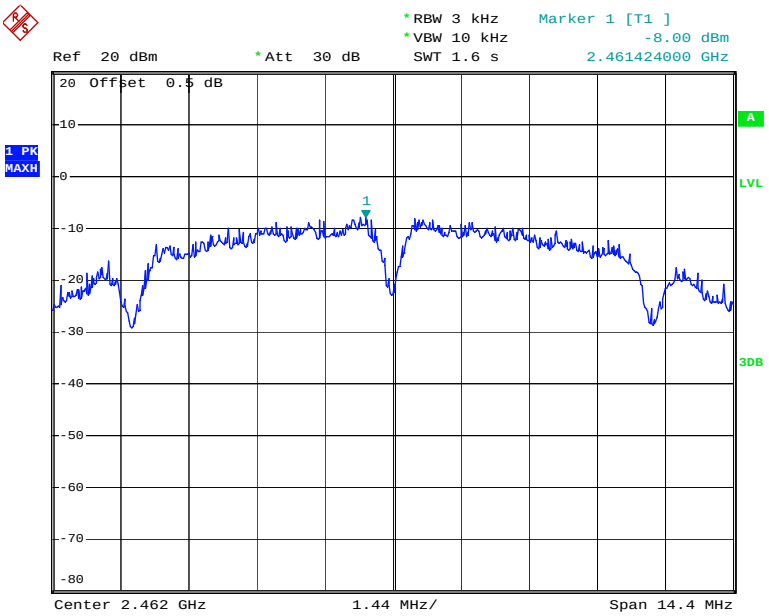


Power Spectral Density, 802.11b Middle Channel



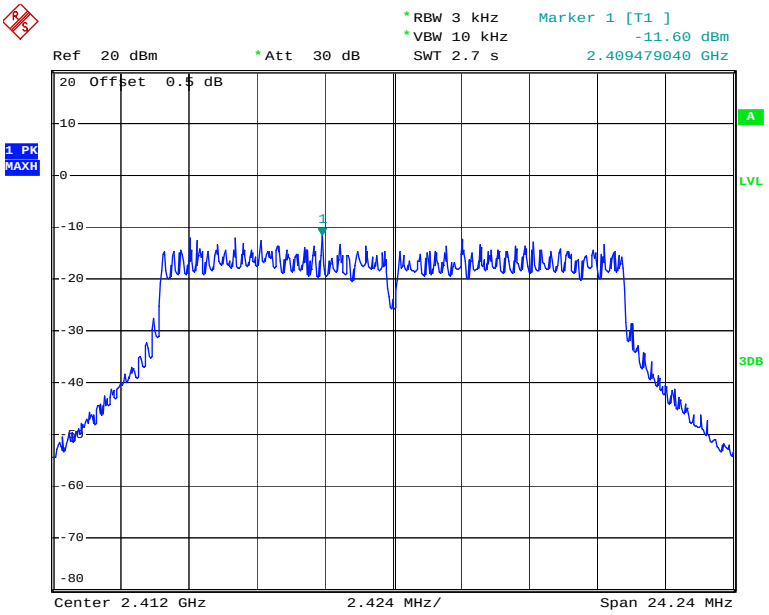
Date: 19.SEP.2019 13:43:20

Power Spectral Density, 802.11b High Channel



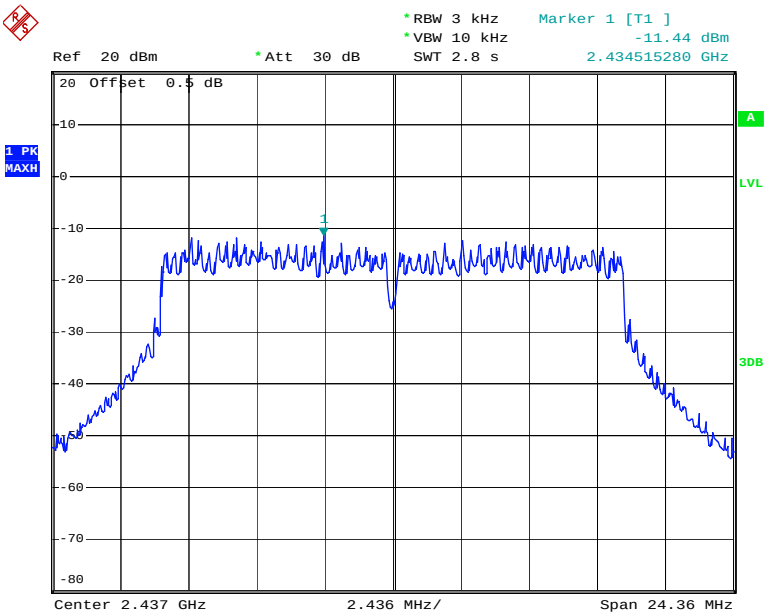
Date: 19.SEP.2019 13:45:09

Power Spectral Density, 802.11g Low Channel



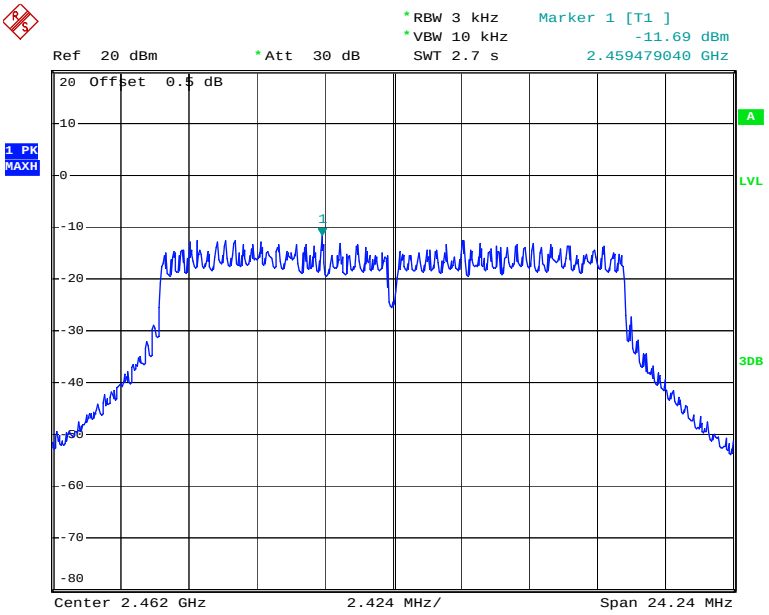
Date: 19.SEP.2019 13:22:02

Power Spectral Density, 802.11g Middle Channel



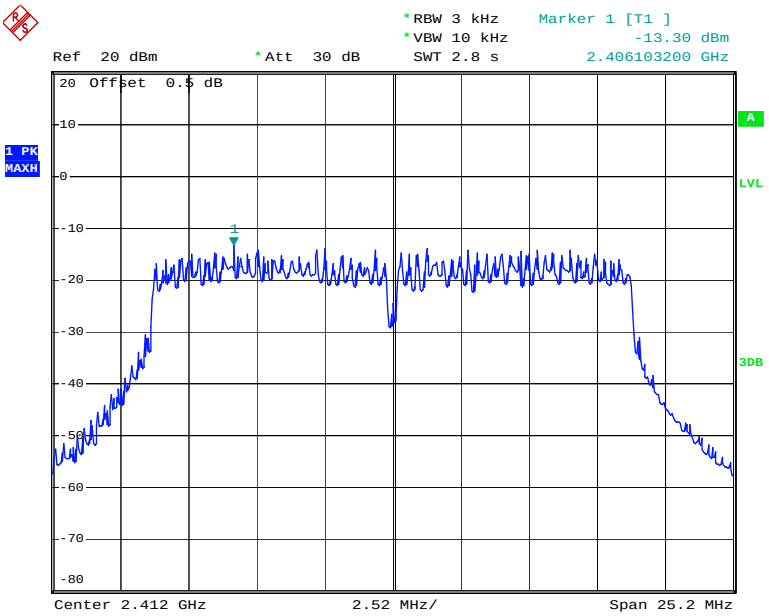
Date: 19.SEP.2019 13:23:46

Power Spectral Density, 802.11g High Channel



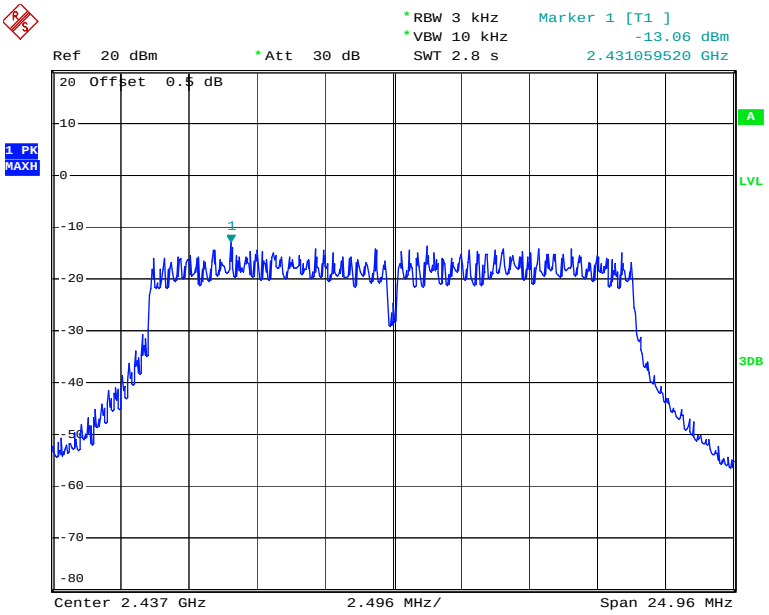
Date: 19.SEP.2019 13:26:01

Power Spectral Density, 802.11n ht20 Low Channel



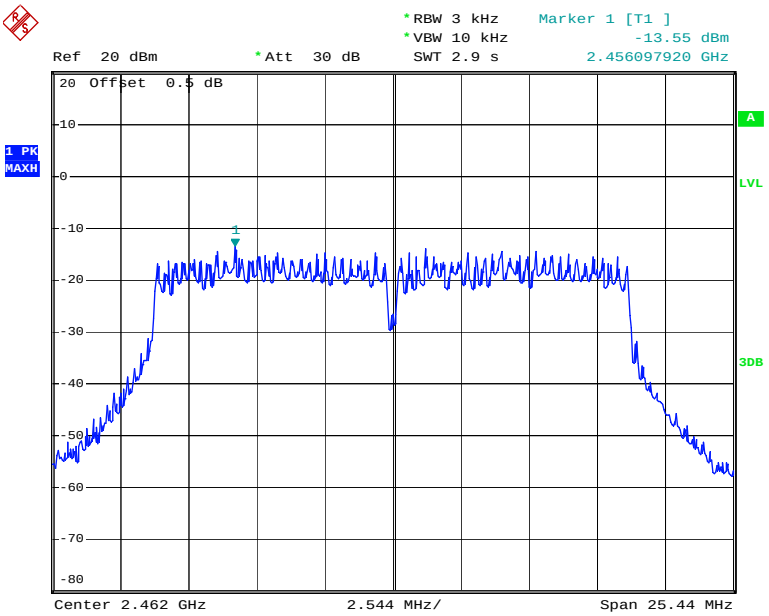
Date: 19.SEP.2019 13:27:34

Power Spectral Density, 802.11n ht20 Middle Channel



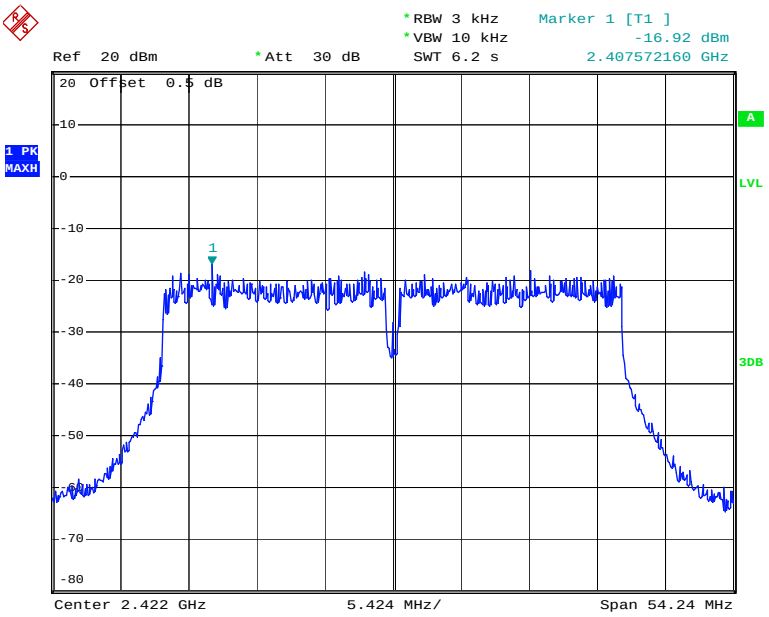
Date: 19.SEP.2019 13:28:53

Power Spectral Density, 802.11n ht20 High Channel



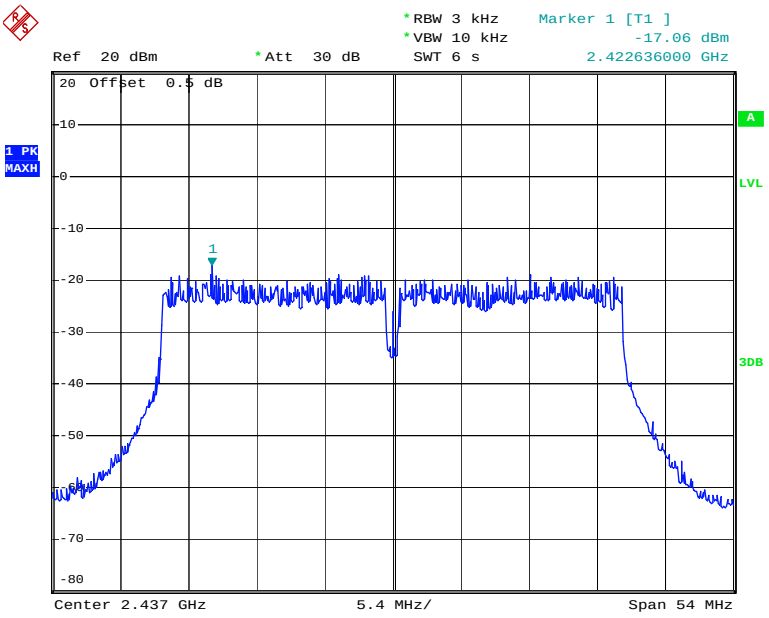
Date: 19.SEP.2019 13:30:10

Power Spectral Density, 802.11n ht40 Low Channel



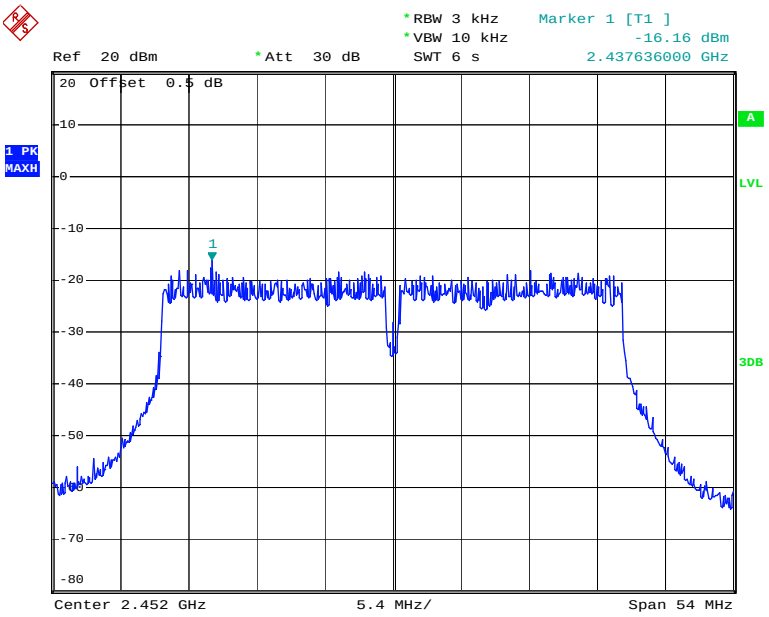
Date: 19.SEP.2019 13:32:33

Power Spectral Density, 802.11n ht40 Middle Channel



Date: 19.SEP.2019 13:34:17

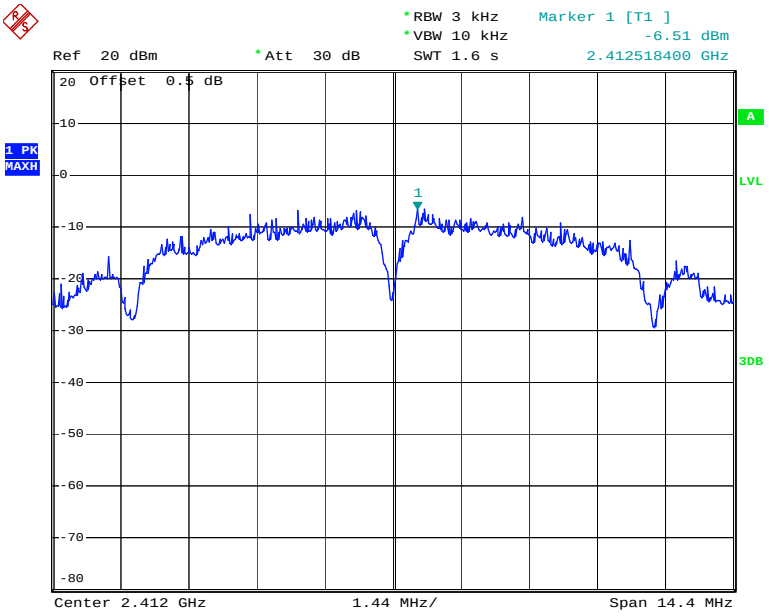
Power Spectral Density, 802.11n ht40 High Channel



Date: 19.SEP.2019 13:38:12

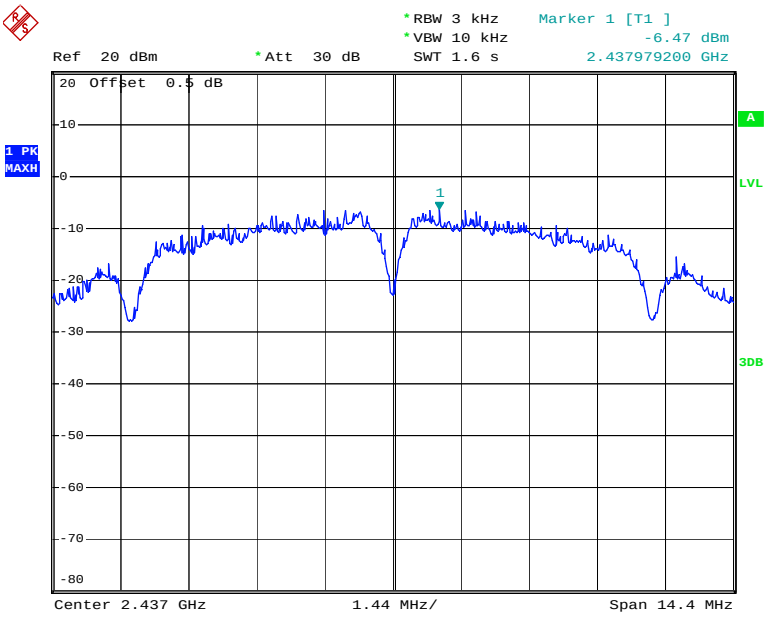
Chain 1:

Power Spectral Density, 802.11b Low Channel



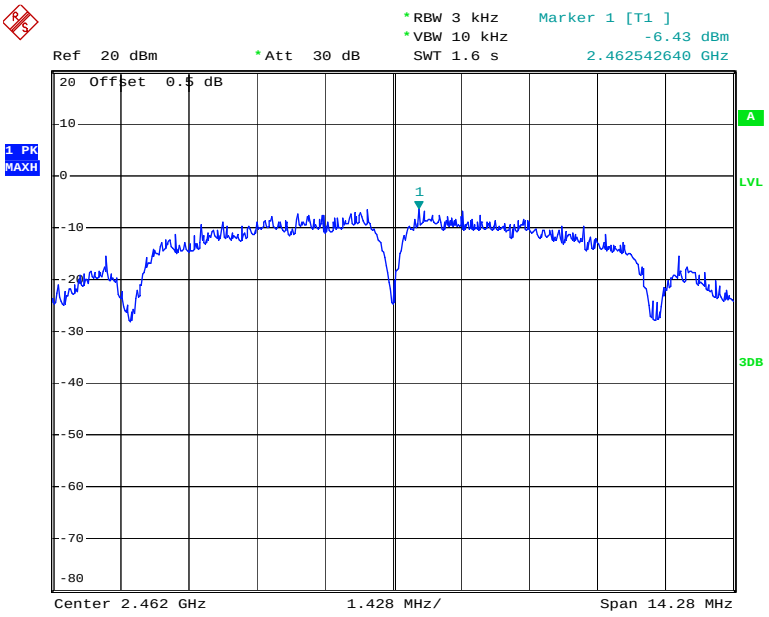
Date: 19.SEP.2019 13:58:54

Power Spectral Density, 802.11b Middle Channel



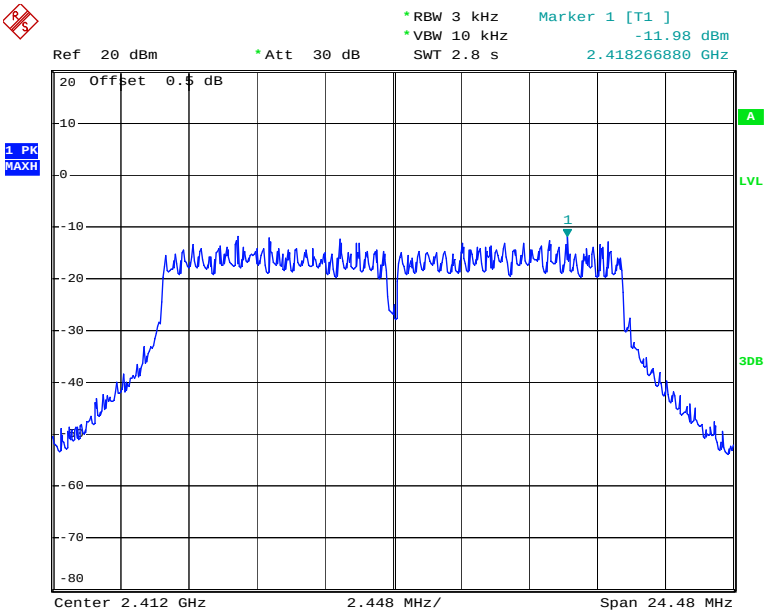
Date: 19.SEP.2019 14:00:01

Power Spectral Density, 802.11b High Channel



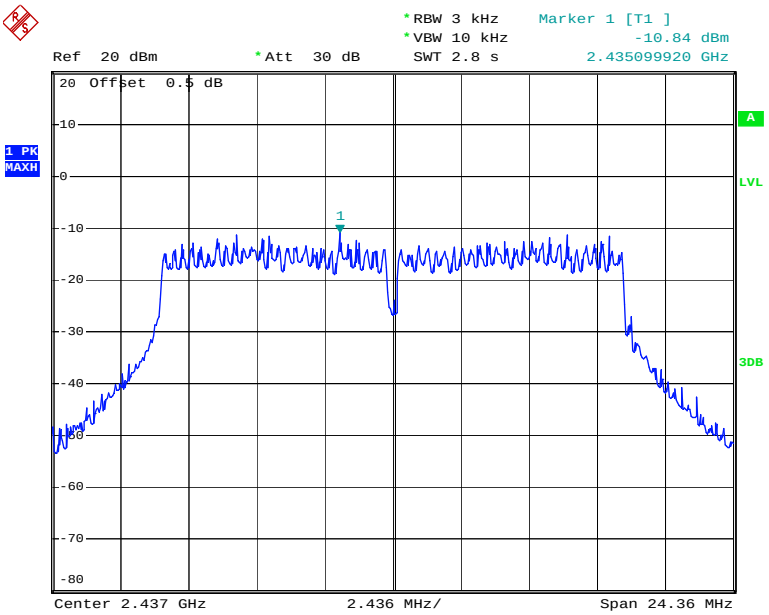
Date: 19.SEP.2019 14:01:23

Power Spectral Density, 802.11g Low Channel



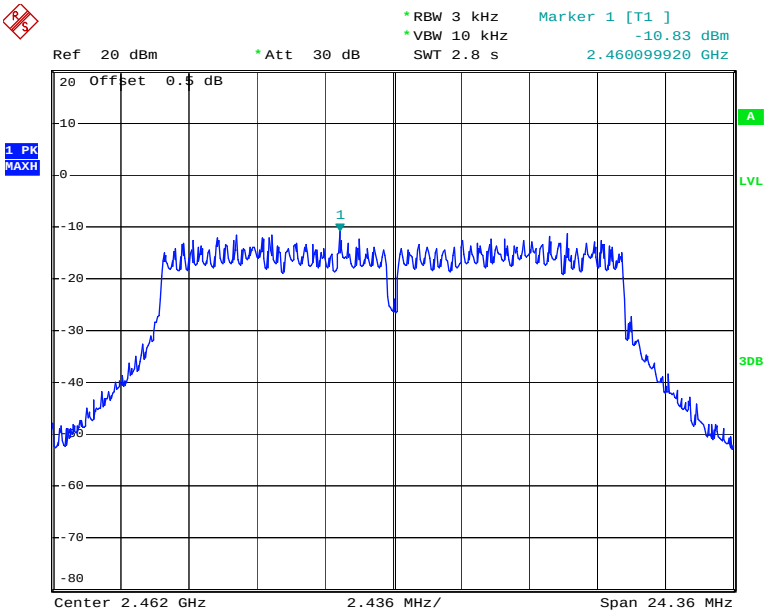
Date: 19.SEP.2019 14:02:35

Power Spectral Density, 802.11g Middle Channel



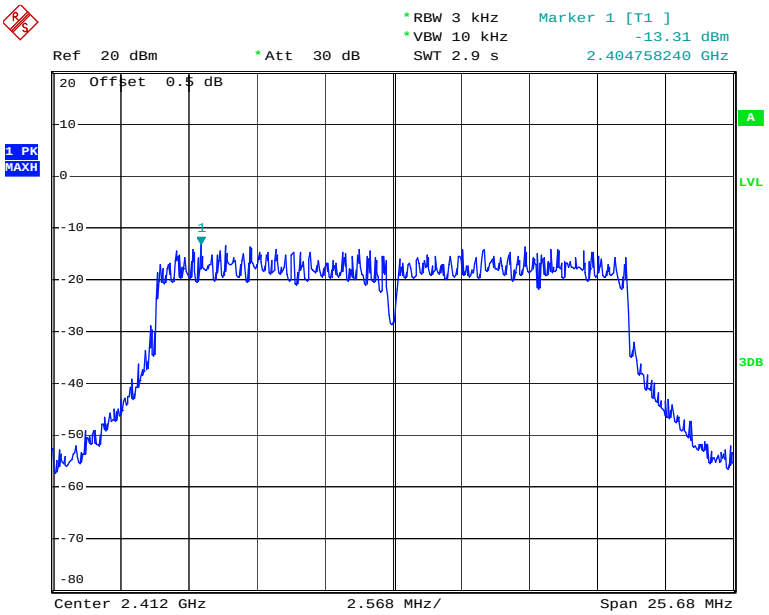
Date: 19.SEP.2019 14:04:02

Power Spectral Density, 802.11g High Channel



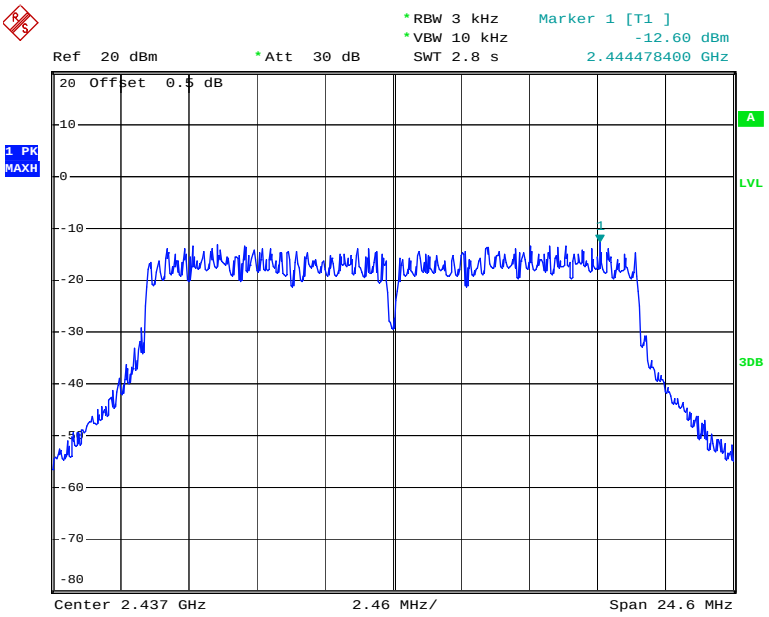
Date: 19.SEP.2019 14:05:22

Power Spectral Density, 802.11n ht20 Low Channel



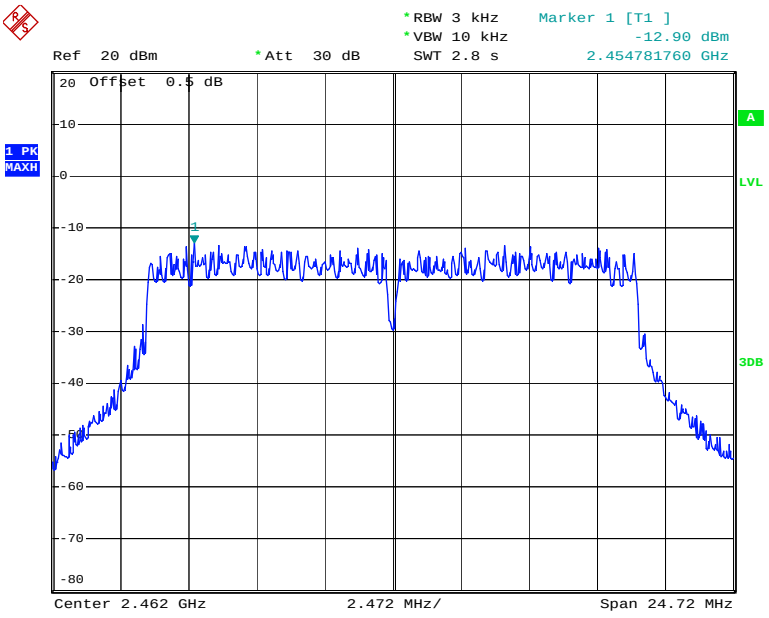
Date: 19.SEP.2019 14:06:41

Power Spectral Density, 802.11n ht20 Middle Channel



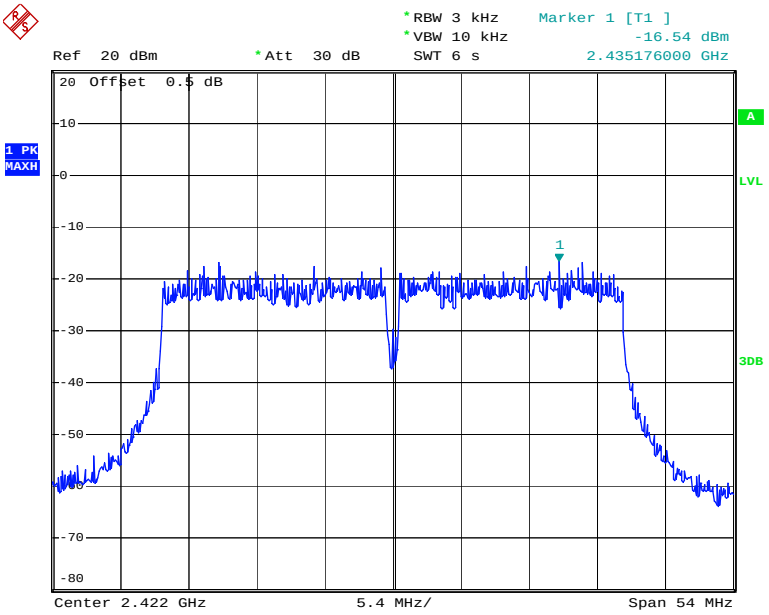
Date: 19.SEP.2019 14:08:08

Power Spectral Density, 802.11n ht20 High Channel



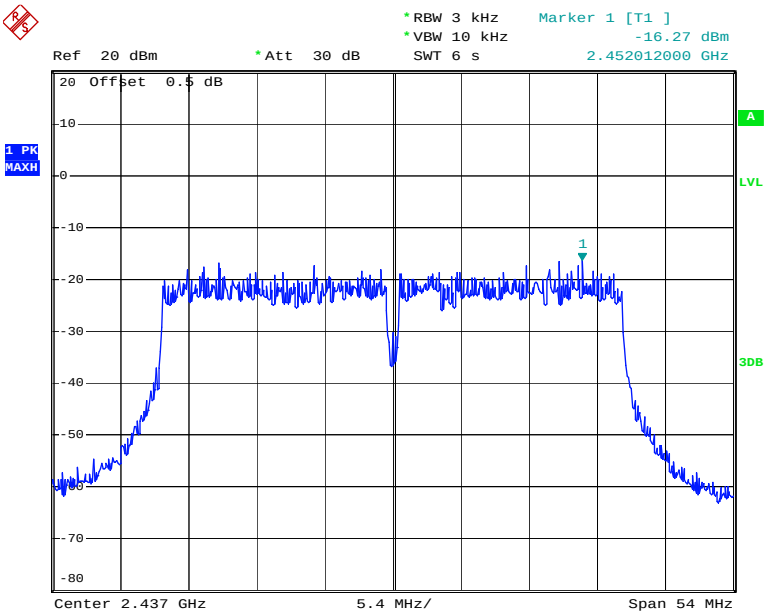
Date: 19.SEP.2019 14:09:19

Power Spectral Density, 802.11n ht40 Low Channel



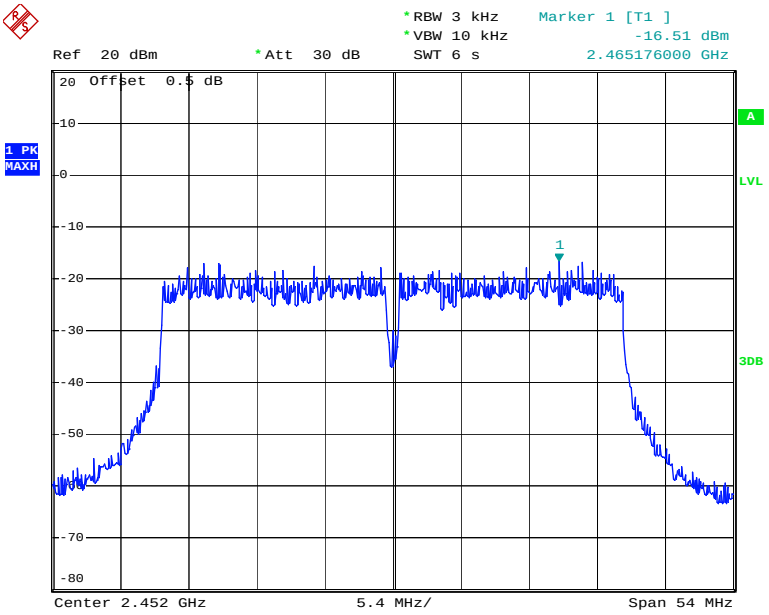
Date: 19.SEP.2019 14:10:51

Power Spectral Density, 802.11n ht40 Middle Channel



Date: 19.SEP.2019 14:12:20

Power Spectral Density, 802.11n ht40 High Channel



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