

FCC PART 15.247 TEST REPORT

For

MFOURTEL MEXICO S.A. DE C.V.

Av. Ejército Nacional 436 Piso 3 Chapultepec Morales Miguel Hidalgo Distrito Federal
11570, Mexico

FCC ID: CLNM4HS2

Report Type: Original Report	Product Type: 4G Mobile Wifi
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *MFOURTEL MEXICO S.A. DE C.V.*'s product, model number: *M4 HS2 (FCC ID: CLNM4HS2)* or the "EUT" in this report was a *4G Mobile Wifi*, which was measured approximately: 9.4 cm (L) × 6.2 cm (W) × 0.9 cm (H), rated with input voltage: DC 3.8V battery.

**All measurement and test data in this report was gathered from production sample serial number: 180312003. (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2018-03-12.*

Objective

This report is prepared on behalf of *MFOURTEL MEXICO S.A. DE C.V.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

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

Related Submittal(s)/Grant(s)

Part 22H/24E/27 PCB submissions with FCC ID: CLNM4HS2.

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 DTS Meas Guidance v04.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		±5%
RF Output Power with Power meter		±0.5dB
RF conducted test with spectrum		±1.5dB
AC Power Lines Conducted Emissions		±1.95dB
Emissions, Radiated	Below 1GHz	±4.75dB
	Above 1GHz	±4.88dB
Temperature		±3°C
Humidity		±6%
Supply voltages		±0.4%

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

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

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 802.11b, 802.11g and 802.11n-HT20 mode, 13 channels are provided to testing:

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

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

For 802.11n-HT40 mode, EUT was tested with Channel 3, 7 and 11.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

Wi-Fi test in the engineer mode.

“ADB command” was used.

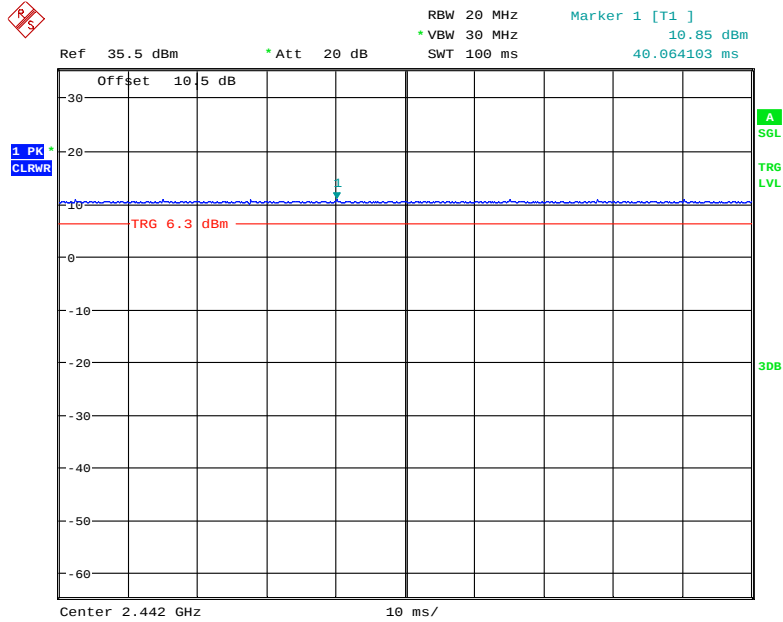
The device was tested with worst case as below:

Mode	Data rate	Power level		
		Low channel	Middle channel	High channel
802.11b	1 Mbps	24	24	24
802.11g	6 Mbps	28	28	28
802.11n-HT20	MCS0	28	28	28
802.11n-HT40	MCS0	30	30	30

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

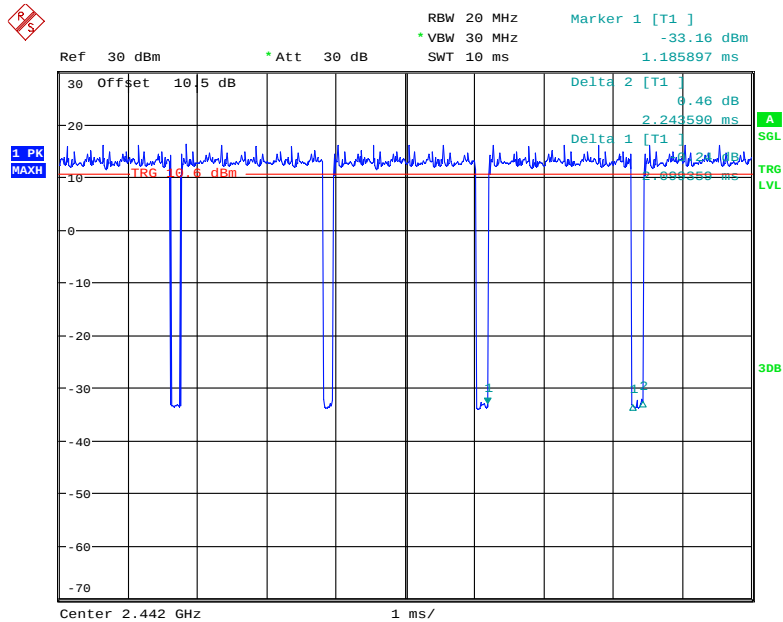
Duty cycle

802.11b mode



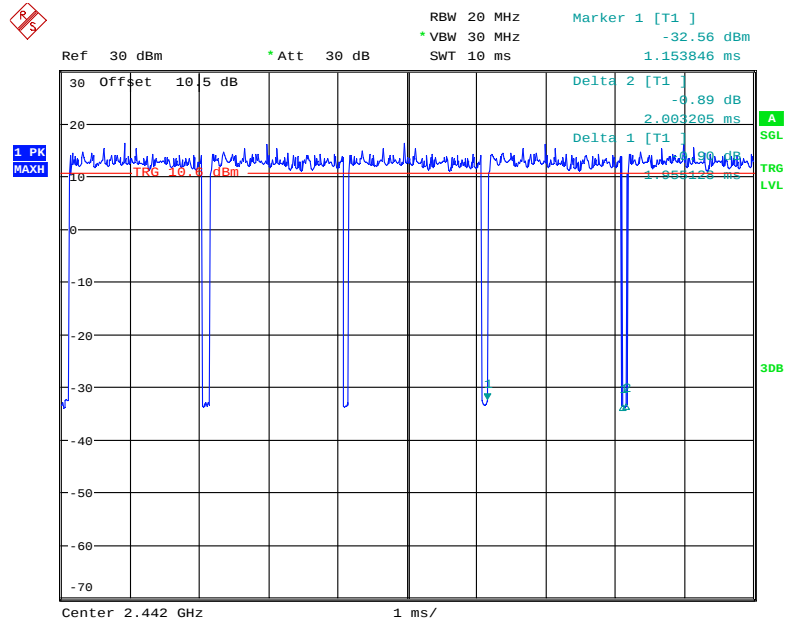
Date: 22.MAR.2018 21:51:21

802.11g mode



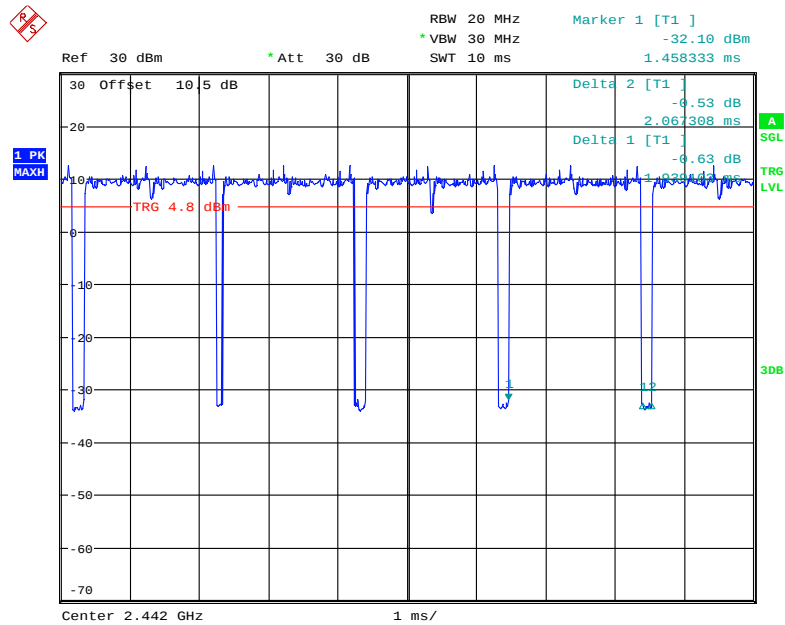
Date: 29.MAR.2018 21:55:18

802.11n-HT20 Mode



Date: 29.MAR.2018 21:56:43

802.11n-HT40 Mode



Date: 29.MAR.2018 21:57:45

Band	Duty Cycle (%)	T(ms)	1/T(kHz)	VBW Setting	10log(1/ Duty Cycle)
802.11b	100	-	-	10Hz	-
802.11g	94	2.099	0.48	1kHz	0.27
802.11n-HT20	98	-	-	10Hz	-
802.11n-HT40	94	1.939	0.52	3kHz	0.27

Support Equipment List and Details

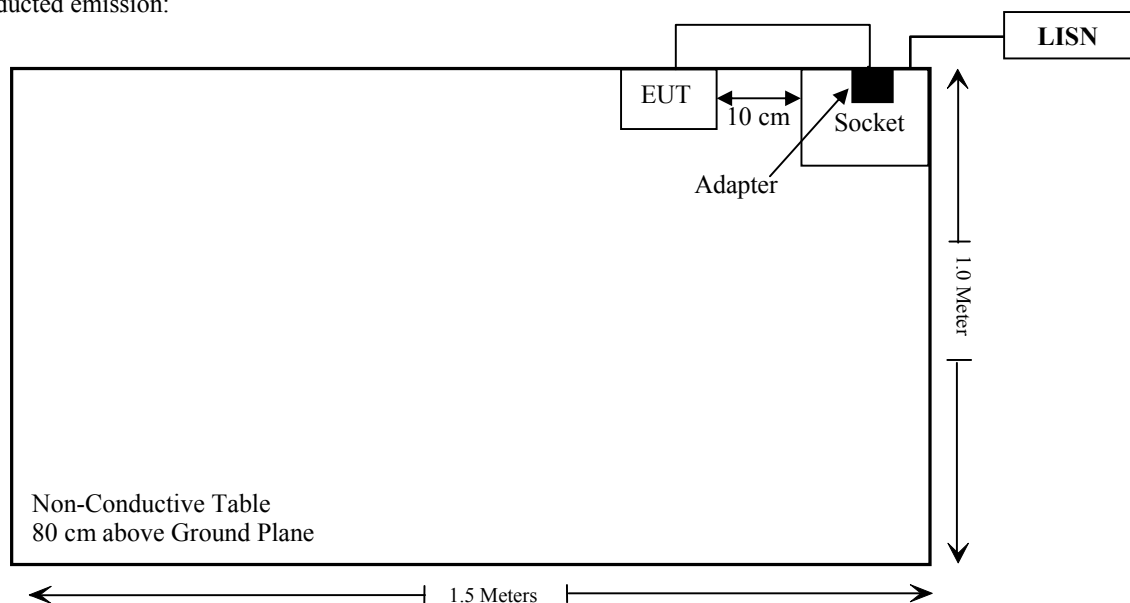
Manufacturer	Description	Model	Serial Number
SENA	Adapter	LS5U	N/A

External I/O Cable

Cable Description	Length (m)	From/Port	To
Un-Shielding Detachable USB Cable	0.6	EUT	Adapter

Block Diagram of Test Setup

For conducted emission:



SUMMARY OF TEST RESULTS

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

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2017-08-04	2018-08-04
Rohde & Schwarz	LISN	ENV216	3560.6650.12-101613-Yb	2017-12-07	2018-12-07
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2017-11-19	2018-05-21
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
N/A	Conducted Emission Cable	N/A	UF A210B-1-0720-504504	2017-11-12	2018-05-12
Radiated Emission Test					
A.H.System	Horn Antenna	SAS-200/571	135	2015-08-18	2018-08-17
Rohde & Schwarz	Signal Analyzer	FSEM	845987/005	2017-04-24	2018-04-24
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2017-05-21	2018-05-21
HP	Amplifier	HP8447E	1937A01046	2017-11-19	2018-05-21
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2017-12-17	2020-12-16
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2018-01-11	2019-01-11
Ducommun technologies	RF Cable	UFA210A-1-4724-30050U	MFR64369 223410-001	2017-11-19	2018-05-21
Ducommun technologies	RF Cable	104PEA	218124002	2017-11-19	2018-05-21
Ducommun technologies	RF Cable	RG-214	1	2017-11-19	2018-05-21
Ducommun technologies	RF Cable	RG-214	2	2017-11-19	2018-05-21
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-04	2017-12-29	2020-12-28
Ducommun Technologies	Pre-amplifier	ALN-22093530-01	991373-01	2017-08-03	2018-08-03
Sinoscite	Notch Filter	BSF2402-2480MN-0898-001	N/A	2017-05-21	2018-05-21

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Agilent	P-Series Power Meter	N1912A	MY5000448	2017-12-05	2018-12-05
Agilent	Wideband Power Sensor	N1921A	MY54210016	2017-12-05	2018-12-05
WEINSCHTEL	10dB Attenuator	5324	AU 3842	2017-11-23	2018-05-22
Rohde & Schwarz	SPECTRUM ANALYZER	FSU26	200120	2017-12-24	2018-12-24
Ducommun technologies	RF Cable	RG-214	3	2017-11-22	2018-05-22

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

FCC §1.1307(b) & §2.1093 - RF EXPOSURE INFORMATION

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliance, please refer to the SAR report: RSZ180312003-20.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

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

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

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

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

Antenna Connector Construction

The EUT has one internal PCB antenna and one FPC antenna arrangement, which were permanently attached and both of the two antennas gain are 1.0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

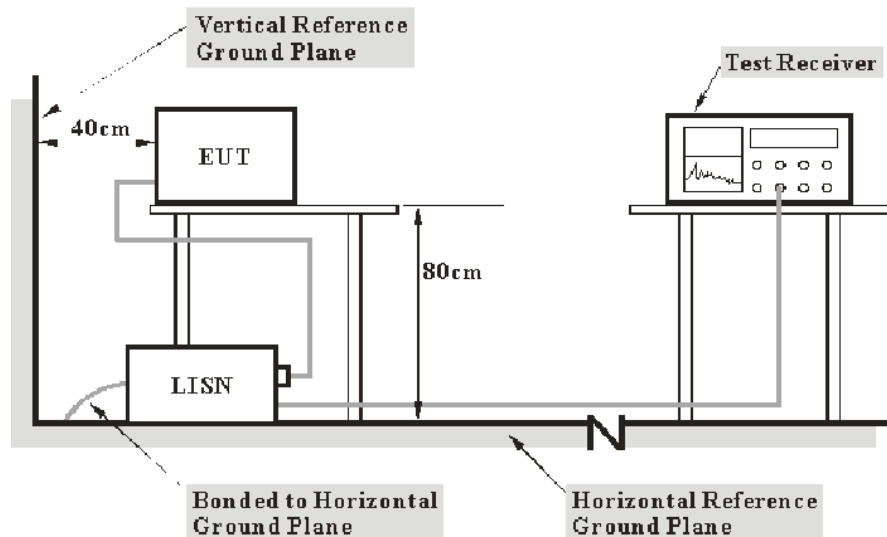
Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

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

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

Corrected Factor & Margin Calculation

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

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

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

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

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

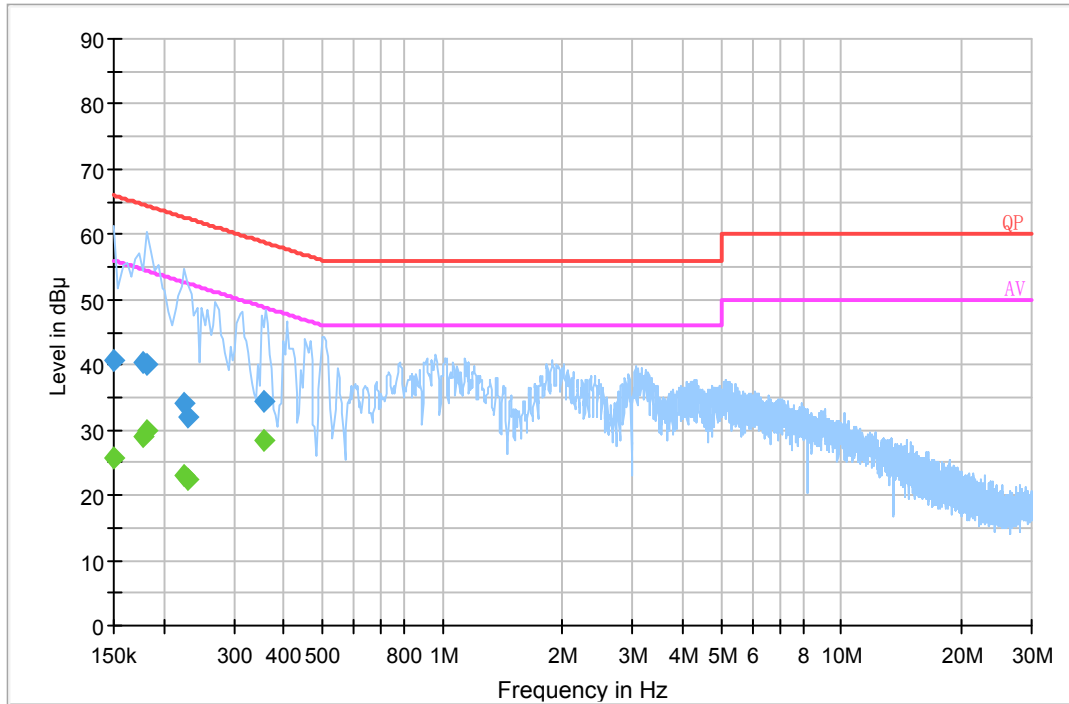
Temperature:	25 °C
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Tracy Hu on 2018-03-13.

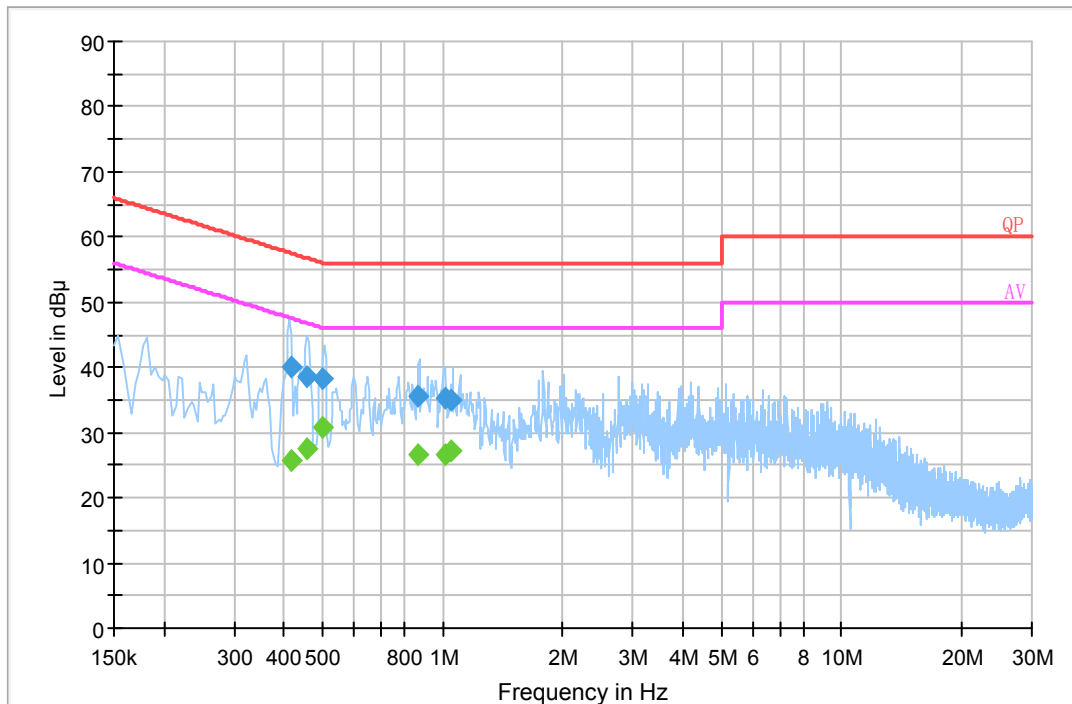
EUT operation mode: Transmitting & charging

Wi-Fi Mode: (worst case at 802.11g mode, Middle channel, MIMO mode)

AC 120 V/60 Hz, Line:



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.150000	40.8	20.2	66.0	25.2	QP
0.177500	40.5	20.2	64.6	24.1	QP
0.181500	40.2	20.2	64.4	24.2	QP
0.225500	34.1	20.2	62.6	28.5	QP
0.229500	32.1	20.2	62.5	30.4	QP
0.356570	34.4	20.2	58.8	24.4	QP
0.150000	25.7	20.2	56.0	30.3	Ave.
0.177500	28.9	20.2	54.6	25.7	Ave.
0.181500	29.8	20.2	54.4	24.6	Ave.
0.225500	22.9	20.2	52.6	29.7	Ave.
0.229500	22.4	20.2	52.5	30.1	Ave.
0.356570	28.4	20.2	48.8	20.4	Ave.

AC 120V/ 60 Hz, Neutral:

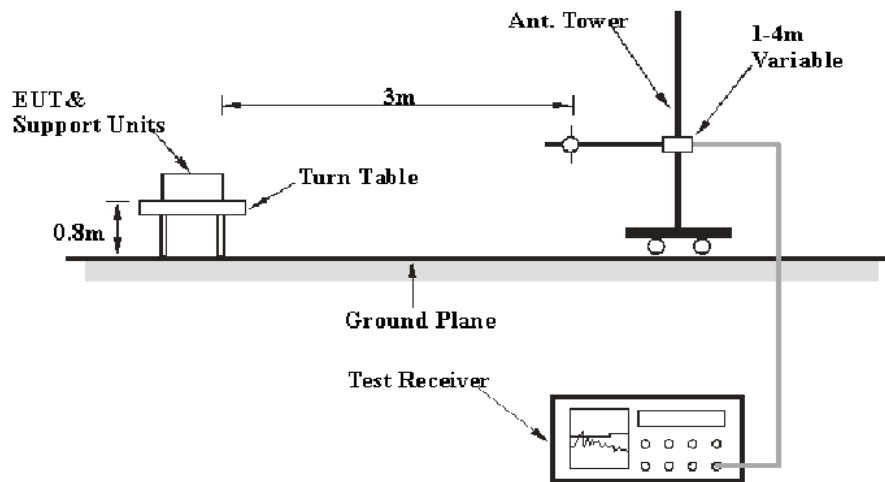
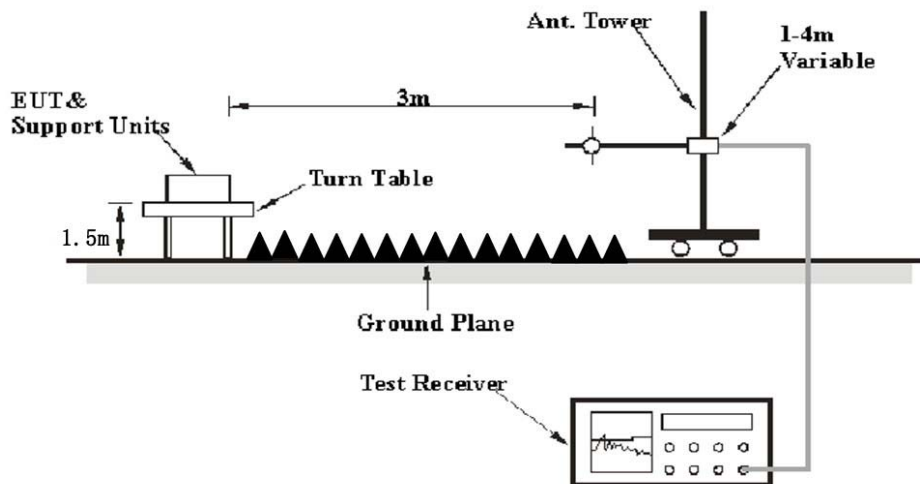
Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.415790	40.1	20.2	57.5	17.4	QP
0.459130	38.5	20.2	56.7	18.2	QP
0.502410	38.3	20.2	56.0	17.7	QP
0.868890	35.6	20.1	56.0	20.4	QP
1.010850	35.2	20.1	56.0	20.8	QP
1.050070	34.9	20.1	56.0	21.1	QP
0.415790	25.8	20.2	47.5	21.7	Ave.
0.459130	27.5	20.2	46.7	19.2	Ave.
0.502410	30.9	20.2	46.0	15.1	Ave.
0.868890	26.6	20.1	46.0	19.4	Ave.
1.010850	26.6	20.1	46.0	19.4	Ave.
1.050070	27.2	20.1	46.0	18.8	Ave.

Note:

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

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

FCC §15.247 (d); §15.209; §15.205;

EUT Setup**Below 1 GHz:****Above 1GHz:**

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

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

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

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

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

Note 2: when duty cycle is less than 98%

Test Procedure

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

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

Corrected Amplitude & Margin Calculation

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

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

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

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

Test Results Summary

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

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

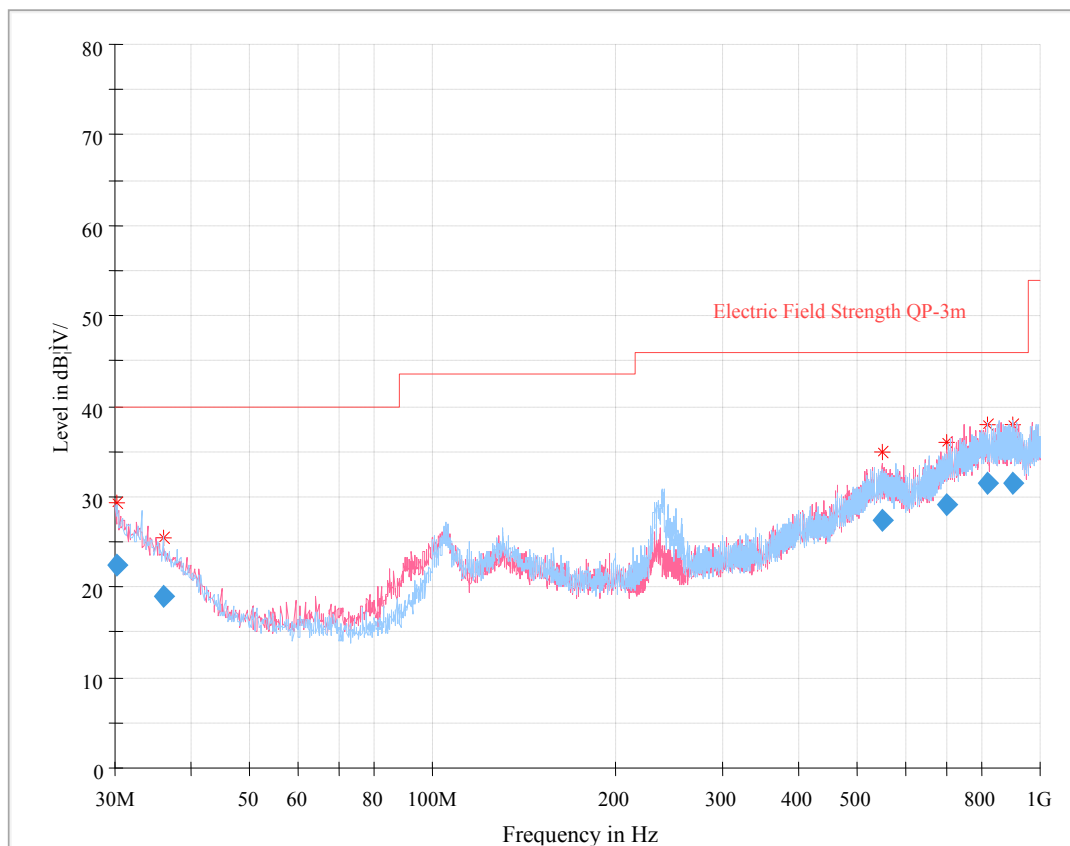
Test Data**Environmental Conditions**

Temperature:	24~25 °C
Relative Humidity:	51~52 %
ATM Pressure:	101.0~101.5 kPa

The testing was performed by Tracy Hu from 2018-03-27 to 2018-04-20.

EUT operation mode: Transmitting

30 MHz~1 GHz: (worst case at 802.11n HT20 Mode, Middle channel, antenna 0)



Frequency (MHz)	Corrected Amplitude (dBμV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
30.248830	22.52	226.0	H	341.0	0.1	40.00	17.48
36.108250	18.88	196.0	H	310.0	-3.7	40.00	21.12
549.829500	27.29	187.0	V	94.0	4.9	46.00	18.71
701.704625	29.06	368.0	V	204.0	6.7	46.00	16.94
819.091375	31.45	150.0	H	108.0	9.0	46.00	14.55
900.878625	31.54	333.0	H	334.0	9.7	46.00	14.46

1 GHz-25 GHz(SISO mode):**Antenna 0:****802.11b Mode:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
2412.00	62.57	PK	323	1.5	H	33.92	96.49	/	/
2412.00	56.87	Ave.	323	1.5	H	33.92	90.79	/	/
2412.00	57.30	PK	49	1.5	V	33.92	91.22	/	/
2412.00	51.86	Ave.	49	1.5	V	33.92	85.78	/	/
2315.61	26.78	PK	97	2.1	H	33.83	60.61	74	13.39
2315.61	13.12	Ave.	97	2.1	H	33.83	46.95	54	7.05
2485.71	27.22	PK	225	1.9	H	34.08	61.30	74	12.70
2485.71	13.46	Ave.	225	1.9	H	34.08	47.54	54	6.46
4824.00	43.52	PK	24	1.6	H	5.84	49.36	74	24.64
4824.00	29.33	Ave.	24	1.6	H	5.84	35.17	54	18.83
Middle Channel (2442MHz)									
2442.00	65.57	PK	126	2.4	H	33.92	99.49	/	/
2442.00	59.18	Ave.	126	2.4	H	33.92	93.10	/	/
2442.00	62.71	PK	312	2.3	V	33.92	96.63	/	/
2442.00	57.30	Ave.	312	2.3	V	33.92	91.22	/	/
4884.00	43.74	PK	277	2.0	H	6.21	49.95	74	24.05
4884.00	29.55	Ave.	277	2.0	H	6.21	35.76	54	18.24
High Channel (2472 MHz)									
2472.00	64.57	PK	116	1.3	H	34.08	98.65	/	/
2472.00	59.67	Ave.	116	1.3	H	34.08	93.75	/	/
2472.00	60.75	PK	68	1.9	V	34.08	94.83	/	/
2472.00	55.44	Ave.	68	1.9	V	34.08	89.52	/	/
2346.71	26.77	PK	343	1.9	H	33.83	60.60	74	13.40
2346.71	13.21	Ave.	343	1.9	H	33.83	47.04	54	6.96
2483.99	28.59	PK	313	1.5	H	34.08	62.67	74	11.33
2483.99	16.86	Ave.	313	1.5	H	34.08	50.94	54	3.06
4944.00	44.35	PK	27	1.6	H	6.21	50.56	74	23.44
4944.00	30.24	Ave.	27	1.6	H	6.21	36.45	54	17.55

802.11g Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
2412.00	62.15	PK	167	2.3	H	33.92	96.07	/	/
2412.00	48.77	Ave.	167	2.3	H	33.92	82.69	/	/
2412.00	60.21	PK	69	1.2	V	33.92	94.13	/	/
2412.00	47.07	Ave.	69	1.2	V	33.92	80.99	/	/
2334.52	27.05	PK	110	2.4	H	33.83	60.88	74	13.12
2334.52	13.28	Ave.	110	2.4	H	33.83	47.11	54	6.89
2491.35	26.88	PK	137	2.2	H	34.08	60.96	74	13.04
2491.35	13.14	Ave.	137	2.2	H	34.08	47.22	54	6.78
4824.00	42.57	PK	5	2.0	H	5.84	48.41	74	25.59
4824.00	28.89	Ave.	5	2.0	H	5.84	34.73	54	19.27
Middle Channel (2442MHz)									
2442.00	64.05	PK	33	1.5	H	33.92	97.97	/	/
2442.00	50.23	Ave.	33	1.5	H	33.92	84.15	/	/
2442.00	62.38	PK	120	1.8	V	33.92	96.30	/	/
2442.00	48.64	Ave.	120	1.8	V	33.92	82.56	/	/
4884.00	43.11	PK	90	1.5	H	6.21	49.32	74	24.68
4884.00	29.34	Ave.	90	1.5	H	6.21	35.55	54	18.45
High Channel (2472 MHz)									
2472.00	63.68	PK	149	1.2	H	34.08	97.76	/	/
2472.00	48.52	Ave.	149	1.2	H	34.08	82.60	/	/
2472.00	60.25	PK	213	1.2	V	34.08	94.33	/	/
2472.00	46.34	Ave.	213	1.2	V	34.08	80.42	/	/
2357.13	26.81	PK	305	1.7	H	33.92	60.73	74	13.27
2357.13	13.06	Ave.	305	1.7	H	33.92	46.98	54	7.02
2483.53	33.52	PK	354	1.0	H	34.08	67.60	74	6.40
2483.53	15.81	Ave.	354	1.0	H	34.08	49.89	54	4.11
4944.00	42.55	PK	3	1.9	H	6.21	48.76	74	25.24
4944.00	28.64	Ave.	3	1.9	H	6.21	34.85	54	19.15

802.11n-HT20 Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
2412.00	62.86	PK	278	2.0	H	33.92	96.78	/	/
2412.00	47.35	Ave.	278	2.0	H	33.92	81.27	/	/
2412.00	62.34	PK	223	2.0	V	33.92	96.26	/	/
2412.00	47.31	Ave.	223	2.0	V	33.92	81.23	/	/
2336.45	27.07	PK	21	1.4	H	33.83	60.90	74	13.10
2336.45	13.22	Ave.	21	1.4	H	33.83	47.05	54	6.95
2483.89	26.91	PK	171	1.6	H	34.08	60.99	74	13.01
2483.89	13.22	Ave.	171	1.6	H	34.08	47.30	54	6.70
4824.00	43.54	PK	150	2.3	H	5.84	49.38	74	24.62
4824.00	29.68	Ave.	150	2.3	H	5.84	35.52	54	18.48
Middle Channel (2442MHz)									
2442.00	63.16	PK	153	1.3	H	33.92	97.08	/	/
2442.00	48.27	Ave.	153	1.3	H	33.92	82.19	/	/
2442.00	61.38	PK	302	1.0	V	33.92	95.30	/	/
2442.00	46.53	Ave.	302	1.0	V	33.92	80.45	/	/
4884.00	43.26	PK	287	1.3	H	6.21	49.47	74	24.53
4884.00	29.34	Ave.	287	1.3	H	6.21	35.55	54	18.45
High Channel (2472 MHz)									
2472.00	63.30	PK	339	2.1	H	34.08	97.38	/	/
2472.00	48.22	Ave.	339	2.1	H	34.08	82.30	/	/
2472.00	61.25	PK	8	1.9	V	34.08	95.33	/	/
2472.00	46.84	Ave.	8	1.9	V	34.08	80.92	/	/
2345.62	27.34	PK	295	1.1	H	33.83	61.17	74	12.83
2345.62	13.55	Ave.	295	1.1	H	33.83	47.38	54	6.62
2483.59	36.15	PK	64	2.2	H	34.08	70.23	74	3.77
2483.59	16.28	Ave.	64	2.2	H	34.08	50.36	54	3.64
4944.00	42.67	PK	109	2.0	H	6.21	48.88	74	25.12
4944.00	28.89	Ave.	109	2.0	H	6.21	35.10	54	18.90

802.11n-HT40 Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2422 MHz)									
2422.00	59.31	PK	273	1.2	H	33.92	93.23	/	/
2422.00	45.89	Ave.	273	1.2	H	33.92	79.81	/	/
2422.00	57.50	PK	215	2.3	V	33.92	91.42	/	/
2422.00	44.86	Ave.	215	2.3	V	33.92	78.78	/	/
2331.48	26.67	PK	328	1.3	H	33.83	60.50	74	13.50
2331.48	13.13	Ave.	328	1.3	H	33.83	46.96	54	7.04
2484.78	26.74	PK	223	1.1	H	34.08	60.82	74	13.18
2484.78	13.11	Ave.	223	1.1	H	34.08	47.19	54	6.81
4844.00	43.15	PK	37	1.6	H	5.84	48.99	74	25.01
4844.00	29.33	Ave.	37	1.6	H	5.84	35.17	54	18.83
Middle Channel (2442MHz)									
2442.00	60.87	PK	56	1.6	H	33.92	94.79	/	/
2442.00	48.51	Ave.	56	1.6	H	33.92	82.43	/	/
2442.00	58.94	PK	231	1.3	V	33.92	92.86	/	/
2442.00	46.35	Ave.	231	1.3	V	33.92	80.27	/	/
4884.00	43.64	PK	225	2.1	H	6.21	49.85	74	24.15
4884.00	29.47	Ave.	225	2.1	H	6.21	35.68	54	18.32
High Channel (2462MHz)									
2462.00	61.91	PK	81	1.5	H	34.08	95.99	/	/
2462.00	48.92	Ave.	81	1.5	H	34.08	83.00	/	/
2462.00	59.54	PK	74	1.3	V	34.08	93.62	/	/
2462.00	46.87	Ave.	74	1.3	V	34.08	80.95	/	/
2357.77	27.13	PK	36	1.2	H	33.92	61.05	74	12.95
2357.77	13.36	Ave.	36	1.2	H	33.92	47.28	54	6.72
2483.56	32.12	PK	347	2.5	H	34.08	66.20	74	7.80
2483.56	16.65	Ave.	347	2.5	H	34.08	50.73	54	3.27
4924.00	43.55	PK	77	1.2	H	6.21	49.76	74	24.24
4924.00	29.63	Ave.	77	1.2	H	6.21	35.84	54	18.16

Antenna 1:**802.11b Mode:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
2412.00	58.14	PK	28	2.2	H	33.92	92.06	/	/
2412.00	53.28	Ave.	28	2.2	H	33.92	87.20	/	/
2412.00	55.71	PK	112	2.4	V	33.92	89.63	/	/
2412.00	50.24	Ave.	112	2.4	V	33.92	84.16	/	/
2336.45	26.65	PK	43	2.0	H	33.83	60.48	74	13.52
2336.45	13.12	Ave.	43	2.0	H	33.83	46.95	54	7.05
2486.22	27.28	PK	340	1.1	H	34.08	61.36	74	12.64
2486.22	13.46	Ave.	340	1.1	H	34.08	47.54	54	6.46
4824.00	43.56	PK	127	1.8	H	5.84	49.40	74	24.60
4824.00	29.48	Ave.	127	1.8	H	5.84	35.32	54	18.68
Middle Channel (2442MHz)									
2442.00	60.05	PK	38	1.2	H	33.92	93.97	/	/
2442.00	54.68	Ave.	38	1.2	H	33.92	88.60	/	/
2442.00	57.24	PK	244	1.6	V	33.92	91.16	/	/
2442.00	52.13	Ave.	244	1.6	V	33.92	86.05	/	/
4884.00	43.56	PK	320	2.5	H	6.21	49.77	74	24.23
4884.00	29.37	Ave.	320	2.5	H	6.21	35.58	54	18.42
High Channel (2472 MHz)									
2472.00	57.95	PK	85	1.5	H	34.08	92.03	/	/
2472.00	52.77	Ave.	85	1.5	H	34.08	86.85	/	/
2472.00	55.67	PK	249	2.2	V	34.08	89.75	/	/
2472.00	50.18	Ave.	249	2.2	V	34.08	84.26	/	/
2317.37	27.75	PK	46	2.3	H	33.83	61.58	74	12.42
2317.37	14.13	Ave.	46	2.3	H	33.83	47.96	54	6.04
2483.96	27.89	PK	229	1.7	H	34.08	61.97	74	12.03
2483.96	14.22	Ave.	229	1.7	H	34.08	48.30	54	5.70
4944.00	44.68	PK	154	1.9	H	6.21	50.89	74	23.11
4944.00	29.08	Ave.	154	1.9	H	6.21	35.29	54	18.71

802.11g Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
2412	60.51	PK	288	2.3	H	33.92	94.43	/	/
2412	48.31	Ave.	288	2.3	H	33.92	82.23	/	/
2412	57.8	PK	306	1.8	V	33.92	91.72	/	/
2412	45.15	Ave.	306	1.8	V	33.92	79.07	/	/
2337.09	26.69	PK	12	1.6	H	33.83	60.52	74	13.48
2337.09	13.12	Ave.	12	1.6	H	33.83	46.95	54	7.05
2485.55	27.13	PK	301	2.2	H	34.08	61.21	74	12.79
2485.55	13.34	Ave.	301	2.2	H	34.08	47.42	54	6.58
4824.00	43.18	PK	342	1.2	H	5.84	49.02	74	24.98
4824.00	29.22	Ave.	342	1.2	H	5.84	35.06	54	18.94
Middle Channel (2442MHz)									
2442	61.43	PK	19	1.9	H	33.92	95.35	/	/
2442	48.88	Ave.	19	1.9	H	33.92	82.80	/	/
2442	58.24	PK	217	1.9	V	33.92	92.16	/	/
2442	45.78	Ave.	217	1.9	V	33.92	79.70	/	/
4884.00	43.55	PK	351	2.2	H	6.21	49.76	74	24.24
4884.00	29.63	Ave.	351	2.2	H	6.21	35.84	54	18.16
High Channel (2472 MHz)									
2472.00	60.89	PK	229	1.8	H	34.08	94.97	/	/
2472.00	48.02	Ave.	229	1.8	H	34.08	82.10	/	/
2472.00	57.23	PK	219	2.3	V	34.08	91.31	/	/
2472.00	45.66	Ave.	219	2.3	V	34.08	79.74	/	/
2344.18	27.22	PK	158	2.0	H	33.83	61.05	74	12.95
2344.18	13.46	Ave.	158	2.0	H	33.83	47.29	54	6.71
2483.53	34.50	PK	275	2.3	H	34.08	68.58	74	5.42
2483.53	16.11	Ave.	275	2.3	H	34.08	50.19	54	3.81
4944.00	42.58	PK	166	1.8	H	6.21	48.79	74	25.21
4944.00	28.77	Ave.	166	1.8	H	6.21	34.98	54	19.02

802.11n-HT20 Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
2412	62.3	PK	280	2.2	H	33.92	96.22	/	/
2412	50.13	Ave.	280	2.2	H	33.92	84.05	/	/
2412	58.59	PK	222	2.3	V	33.92	92.51	/	/
2412	46.21	Ave.	222	2.3	V	33.92	80.13	/	/
2389.67	26.89	PK	279	1.8	H	33.92	60.81	74	13.19
2389.67	13.15	Ave.	279	1.8	H	33.92	47.07	54	6.93
2488.52	27.13	PK	106	1.2	H	34.08	61.21	74	12.79
2488.52	13.35	Ave.	106	1.2	H	34.08	47.43	54	6.57
4824.00	43.56	PK	341	1.8	H	5.84	49.40	74	24.60
4824.00	29.33	Ave.	341	1.8	H	5.84	35.17	54	18.83
Middle Channel (2442MHz)									
2442	62.76	PK	230	1.4	H	33.92	96.68	/	/
2442	50.55	Ave.	230	1.4	H	33.92	84.47	/	/
2442	58.63	PK	267	1.1	V	33.92	92.55	/	/
2442	46.68	Ave.	267	1.1	V	33.92	80.60	/	/
4884.00	42.87	PK	25	1.2	H	6.21	49.08	74	24.92
4884.00	29.10	Ave.	25	1.2	H	6.21	35.31	54	18.69
High Channel (2472 MHz)									
2472	61.45	PK	150	1.0	H	34.08	95.53	/	/
2472	48.69	Ave.	150	1.0	H	34.08	82.77	/	/
2472	57.48	PK	281	1.7	V	34.08	91.56	/	/
2472	44.57	Ave.	281	1.7	V	34.08	78.65	/	/
2367.87	26.88	PK	356	1.1	H	33.92	60.80	74	13.20
2367.87	13.22	Ave.	356	1.1	H	33.92	47.14	54	6.86
2483.56	36.67	PK	173	1.7	H	34.08	70.75	74	3.25
2483.56	16.19	Ave.	173	1.7	H	34.08	50.27	54	3.73
4944.00	43.25	PK	181	2.0	H	6.21	49.46	74	24.54
4944.00	29.48	Ave.	181	2.0	H	6.21	35.69	54	18.31

802.11n-HT40 Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2422 MHz)									
2422.00	59.51	PK	172	2.4	H	33.92	93.43	/	/
2422.00	47.23	Ave.	172	2.4	H	33.92	81.15	/	/
2422.00	57.23	PK	66	2.3	V	33.92	91.15	/	/
2422.00	44.82	Ave.	66	2.3	V	33.92	78.74	/	/
2354.61	27.16	PK	161	1.2	H	33.92	61.08	74	12.92
2354.61	13.39	Ave.	161	1.2	H	33.92	47.31	54	6.69
2487.65	26.88	PK	151	1.7	H	34.08	60.96	74	13.04
2487.65	13.22	Ave.	151	1.7	H	34.08	47.30	54	6.70
4844.00	42.58	PK	250	2.2	H	5.84	48.42	74	25.58
4844.00	28.69	Ave.	250	2.2	H	5.84	34.53	54	19.47
Middle Channel (2442MHz)									
2442.00	60.58	PK	59	1.6	H	33.92	94.50	/	/
2442.00	48.39	Ave.	59	1.6	H	33.92	82.31	/	/
2442.00	57.84	PK	258	2.0	V	33.92	91.76	/	/
2442.00	45.31	Ave.	258	2.0	V	33.92	79.23	/	/
4884.00	43.51	PK	310	1.9	H	6.21	49.72	74	24.28
4884.00	29.34	Ave.	310	1.9	H	6.21	35.55	54	18.45
High Channel (2462MHz)									
2462.00	60.72	PK	202	2.2	H	34.08	94.80	/	/
2462.00	48.15	Ave.	202	2.2	H	34.08	82.23	/	/
2462.00	59.24	PK	76	1.8	V	34.08	93.32	/	/
2462.00	46.37	Ave.	76	1.8	V	34.08	80.45	/	/
2338.37	26.43	PK	79	2.3	H	33.83	60.26	74	13.74
2338.37	13.08	Ave.	79	2.3	H	33.83	46.91	54	7.09
2483.56	32.51	PK	155	1.3	H	34.08	66.59	74	7.41
2483.56	16.82	Ave.	155	1.3	H	34.08	50.90	54	3.10
4924.00	43.33	PK	36	1.9	H	6.21	49.54	74	24.46
4924.00	29.46	Ave.	36	1.9	H	6.21	35.67	54	18.33

Note:

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

Corrected Amplitude = Corrected Factor + Reading

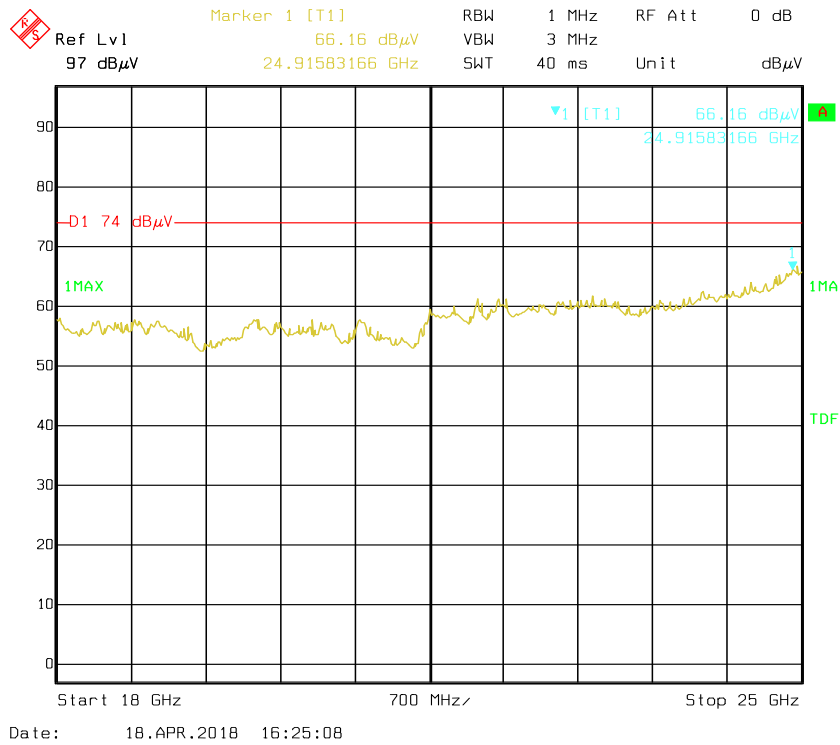
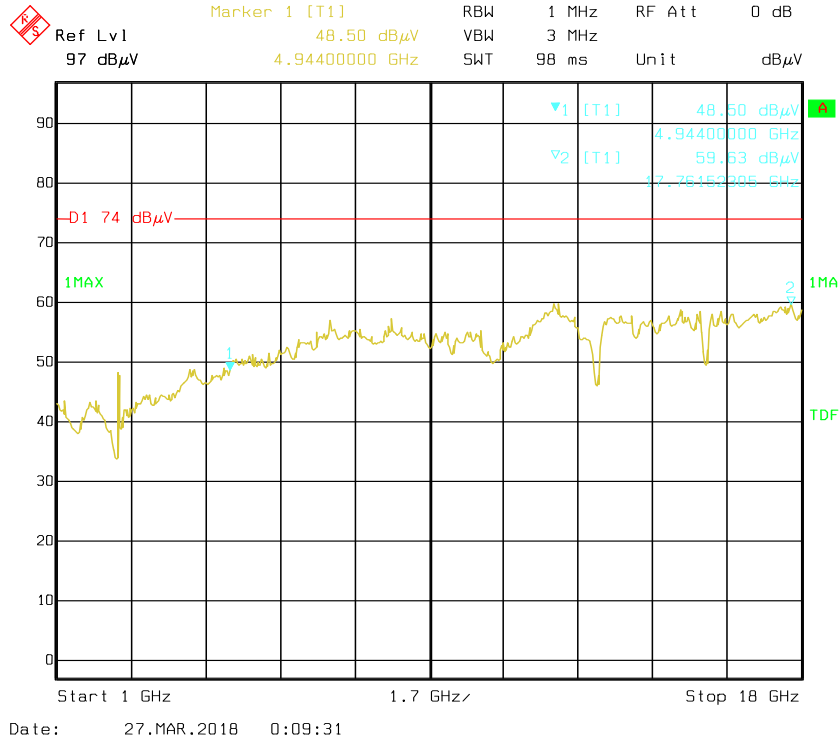
Margin = Limit - Corrected. Amplitude

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

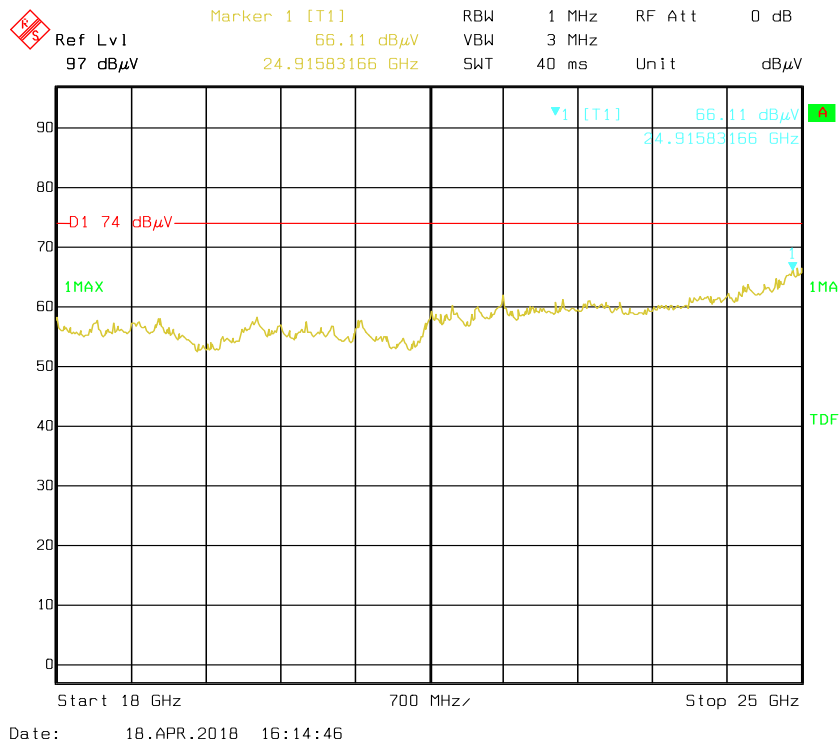
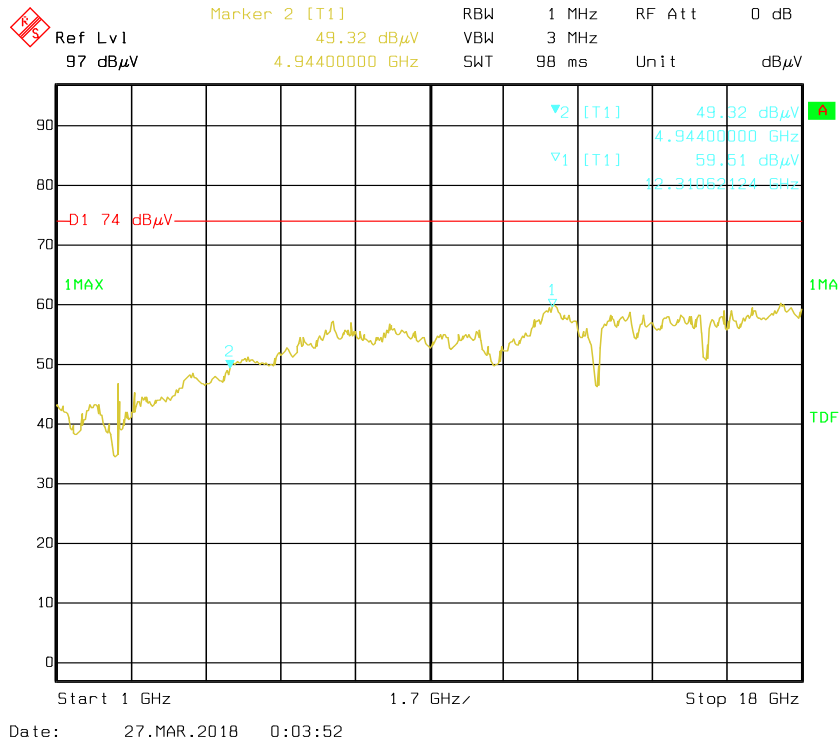
And for the pre-scan is performed with the 2400-2483.5MHz band filter.

Pre-scan with 802.11 b Mode, High channel for Peak

Horizontal

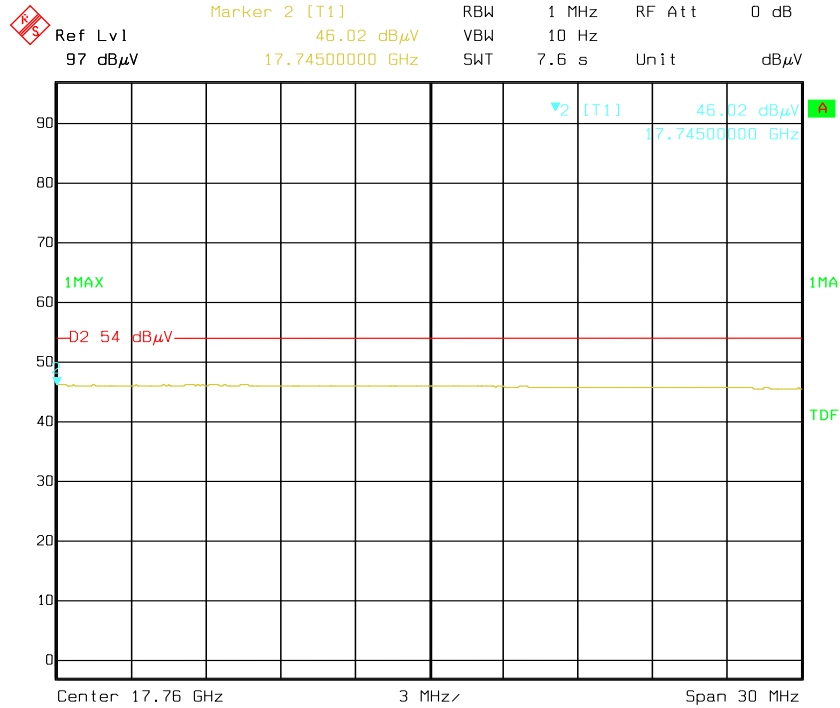


Vertical

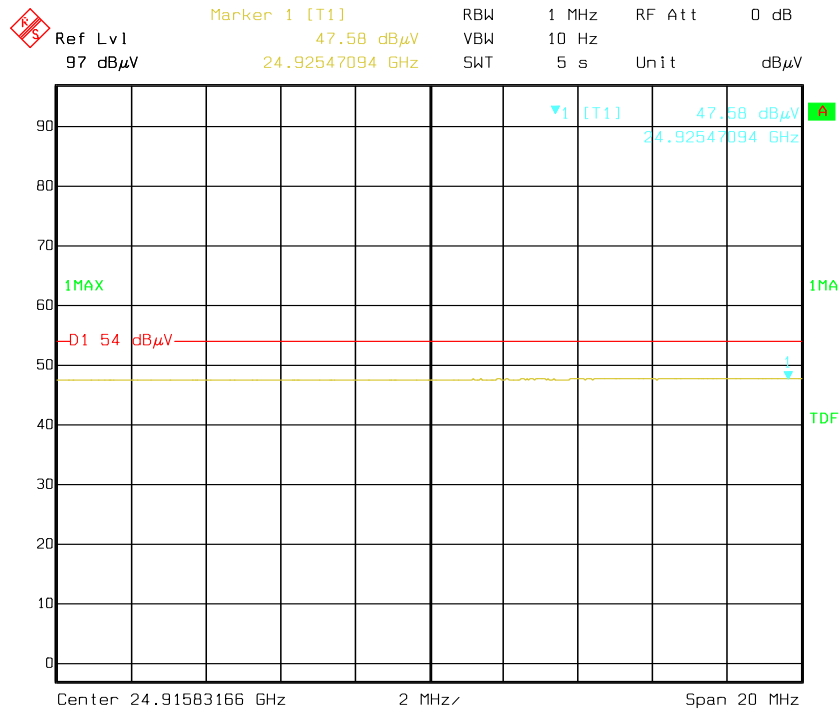


For Average

Horizontal

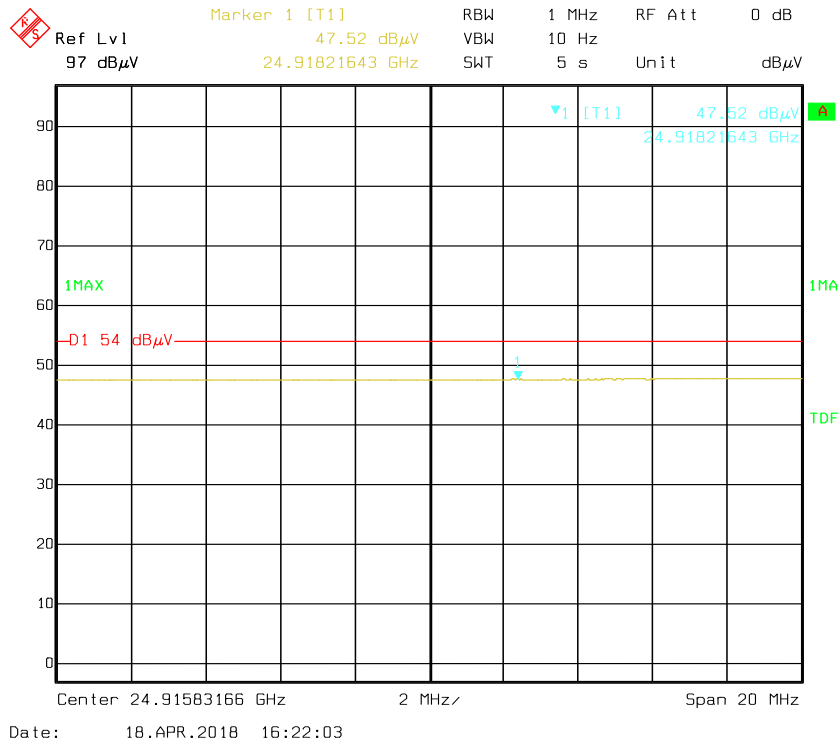
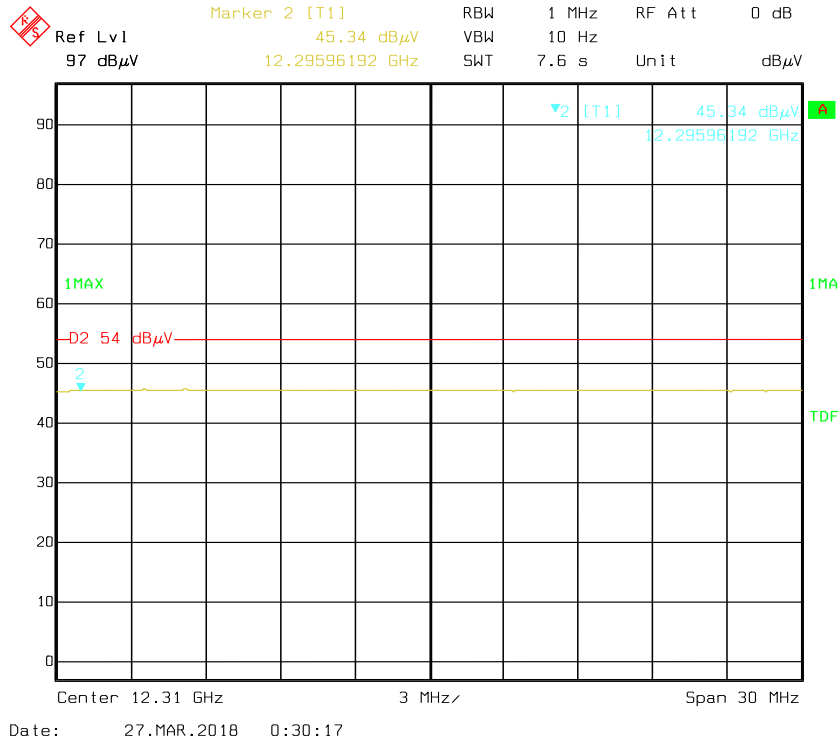


Date: 27.MAR.2018 0:25:40



Date: 18.APR.2018 16:28:08

Vertical



Antenna 0 & 1 transmitting(MIMO mode):**802.11b Mode:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
2412.00	63.14	PK	9	2.3	H	33.92	97.06	/	/
2412.00	56.97	Ave.	9	2.3	H	33.92	90.89	/	/
2412.00	57.59	PK	111	1.5	V	33.92	91.51	/	/
2412.00	52.15	Ave.	111	1.5	V	33.92	86.07	/	/
2370.56	27.71	PK	197	2.0	H	33.92	61.63	74	12.37
2370.56	13.76	Ave.	197	2.0	H	33.92	47.68	54	6.32
2487.65	27.06	PK	25	2.0	H	34.08	61.14	74	12.86
2487.65	13.42	Ave.	25	2.0	H	34.08	47.50	54	6.50
4824.00	45.05	PK	186	1.5	H	5.84	50.89	74	23.11
4824.00	35.32	Ave.	186	1.5	H	5.84	41.16	54	12.84
Middle Channel (2442MHz)									
2442.00	66.32	PK	172	1.9	H	33.92	100.24	/	/
2442.00	60.39	Ave.	172	1.9	H	33.92	94.31	/	/
2442.00	61.87	PK	138	1.7	V	33.92	95.79	/	/
2442.00	56.27	Ave.	138	1.7	V	33.92	90.19	/	/
4884.00	43.17	PK	102	2.0	H	6.21	49.38	74	24.62
4884.00	33.05	Ave.	102	2.0	H	6.21	39.26	54	14.74
High Channel (2472 MHz)									
2472.00	65.07	PK	356	2.1	H	34.08	99.15	/	/
2472.00	59.42	Ave.	356	2.1	H	34.08	93.50	/	/
2472.00	61.24	PK	115	2.4	V	34.08	95.32	/	/
2472.00	55.97	Ave.	115	2.4	V	34.08	90.05	/	/
2346.59	27.62	PK	352	1.3	H	33.83	61.45	74	12.55
2346.59	13.87	Ave.	352	1.3	H	33.83	47.70	54	6.30
2484.62	28.76	PK	198	2.1	H	34.08	62.84	74	11.16
2484.62	16.72	Ave.	198	2.1	H	34.08	50.80	54	3.20
4944.00	45.22	PK	336	1.1	H	6.21	51.43	74	22.57
4944.00	35.02	Ave.	336	1.1	H	6.21	41.23	54	12.77

802.11g Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
2412.00	64.89	PK	299	2.2	H	33.92	98.81	/	/
2412.00	53.58	Ave.	299	2.2	H	33.92	87.50	/	/
2412.00	60.55	PK	323	2.1	V	33.92	94.47	/	/
2412.00	49.92	Ave.	323	2.1	V	33.92	83.84	/	/
2334.52	27.05	PK	110	2.4	H	33.83	60.88	74	13.12
2334.52	13.28	Ave.	110	2.4	H	33.83	47.11	54	6.89
2491.35	26.88	PK	137	2.2	H	34.08	60.96	74	13.04
2491.35	13.14	Ave.	137	2.2	H	34.08	47.22	54	6.78
4824.00	42.57	PK	5	2.0	H	5.84	48.41	74	25.59
4824.00	28.89	Ave.	5	2.0	H	5.84	34.73	54	19.27
Middle Channel (2442MHz)									
2442.00	65.01	PK	90	2.1	H	33.92	98.93	/	/
2442.00	54.17	Ave.	90	2.1	H	33.92	88.09	/	/
2442.00	60.05	PK	198	1.5	V	33.92	93.97	/	/
2442.00	49.74	Ave.	198	1.5	V	33.92	83.66	/	/
4884.00	43.11	PK	90	1.5	H	6.21	49.32	74	24.68
4884.00	29.34	Ave.	90	1.5	H	6.21	35.55	54	18.45
High Channel (2472 MHz)									
2472.00	64.87	PK	338	2.4	H	34.08	98.95	/	/
2472.00	53.67	Ave.	338	2.4	H	34.08	87.75	/	/
2472.00	61.04	PK	44	2.1	V	34.08	95.12	/	/
2472.00	49.38	Ave.	44	2.1	V	34.08	83.46	/	/
2352.36	27.62	PK	247	1.7	H	33.92	61.54	74	12.46
2352.36	13.84	Ave.	247	1.7	H	33.92	47.76	54	6.24
2483.54	35.73	PK	122	1.3	H	34.08	69.81	74	4.19
2483.54	15.09	Ave.	122	1.3	H	34.08	49.17	54	4.83
4944.00	43.16	PK	295	2.5	H	6.21	49.37	74	24.63
4944.00	28.67	Ave.	295	2.5	H	6.21	34.88	54	19.12

802.11n-HT20 Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
2412.00	64.86	PK	356	2.1	H	33.92	98.78	/	/
2412.00	52.35	Ave.	356	2.1	H	33.92	86.27	/	/
2412.00	60.17	PK	90	2.4	V	33.92	94.09	/	/
2412.00	48.97	Ave.	90	2.4	V	33.92	82.89	/	/
2336.45	27.07	PK	21	1.4	H	33.83	60.90	74	13.10
2336.45	13.22	Ave.	21	1.4	H	33.83	47.05	54	6.95
2483.89	26.91	PK	171	1.6	H	34.08	60.99	74	13.01
2483.89	13.22	Ave.	171	1.6	H	34.08	47.30	54	6.70
4824.00	43.54	PK	150	2.3	H	5.84	49.38	74	24.62
4824.00	29.68	Ave.	150	2.3	H	5.84	35.52	54	18.48
Middle Channel (2442MHz)									
2442.00	65.22	PK	61	1.9	H	33.92	99.14	/	/
2442.00	54.41	Ave.	61	1.9	H	33.92	88.33	/	/
2442.00	60.25	PK	329	1.6	V	33.92	94.17	/	/
2442.00	49.64	Ave.	329	1.6	V	33.92	83.56	/	/
4884.00	43.26	PK	287	1.3	H	6.21	49.47	74	24.53
4884.00	29.34	Ave.	287	1.3	H	6.21	35.55	54	18.45
High Channel (2472 MHz)									
2472.00	64.13	PK	8	2.2	H	34.08	98.21	/	/
2472.00	53.28	Ave.	8	2.2	H	34.08	87.36	/	/
2472.00	60.95	PK	354	1.0	V	34.08	95.03	/	/
2472.00	49.17	Ave.	354	1.0	V	34.08	83.25	/	/
2371.52	26.92	PK	191	2.3	H	33.92	60.84	74	13.16
2371.52	13.75	Ave.	191	2.3	H	33.92	47.67	54	6.33
2483.5	37.84	PK	193	2.2	H	34.08	71.92	74	2.08
2483.5	16.76	Ave.	193	2.2	H	34.08	50.84	54	3.16
4944.00	43.14	PK	246	1.7	H	6.21	49.35	74	24.65
4944.00	28.88	Ave.	246	1.7	H	6.21	35.09	54	18.91

802.11n-HT40 Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2422 MHz)									
2422.00	60.39	PK	10	1.0	H	33.92	94.31	/	/
2422.00	49.27	Ave.	10	1.0	H	33.92	83.19	/	/
2422.00	56.87	PK	341	1.3	V	33.92	90.79	/	/
2422.00	45.11	Ave.	341	1.3	V	33.92	79.03	/	/
2331.48	26.67	PK	328	1.3	H	33.83	60.50	74	13.50
2331.48	13.13	Ave.	328	1.3	H	33.83	46.96	54	7.04
2484.78	26.74	PK	223	1.1	H	34.08	60.82	74	13.18
2484.78	13.11	Ave.	223	1.1	H	34.08	47.19	54	6.81
4844.00	43.15	PK	37	1.6	H	5.84	48.99	74	25.01
4844.00	29.33	Ave.	37	1.6	H	5.84	35.17	54	18.83
Middle Channel (2442MHz)									
2442.00	61.89	PK	121	1.2	H	33.92	95.81	/	/
2442.00	49.56	Ave.	121	1.2	H	33.92	83.48	/	/
2442.00	57.01	PK	109	1.4	V	33.92	90.93	/	/
2442.00	45.79	Ave.	109	1.4	V	33.92	79.71	/	/
4884.00	43.64	PK	225	2.1	H	6.21	49.85	74	24.15
4884.00	29.47	Ave.	225	2.1	H	6.21	35.68	54	18.32
High Channel (2462MHz)									
2462.00	60.87	PK	125	1.3	H	34.08	94.95	/	/
2462.00	49.25	Ave.	125	1.3	H	34.08	83.33	/	/
2462.00	55.74	PK	155	1.5	V	34.08	89.82	/	/
2462.00	45.14	Ave.	155	1.5	V	34.08	79.22	/	/
2371.52	27.26	PK	193	1.9	H	33.92	61.18	74	12.82
2371.52	13.76	Ave.	193	1.9	H	33.92	47.68	54	6.32
2483.8	28.93	PK	32	1.7	H	34.08	63.01	74	10.99
2483.8	14.43	Ave.	32	1.7	H	34.08	48.51	54	5.49
4924	43.27	PK	226	1.6	H	6.21	49.48	74	24.52
4924	28.89	Ave.	226	1.6	H	6.21	35.10	54	18.90

Note:

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

Corrected Amplitude = Corrected Factor + Reading

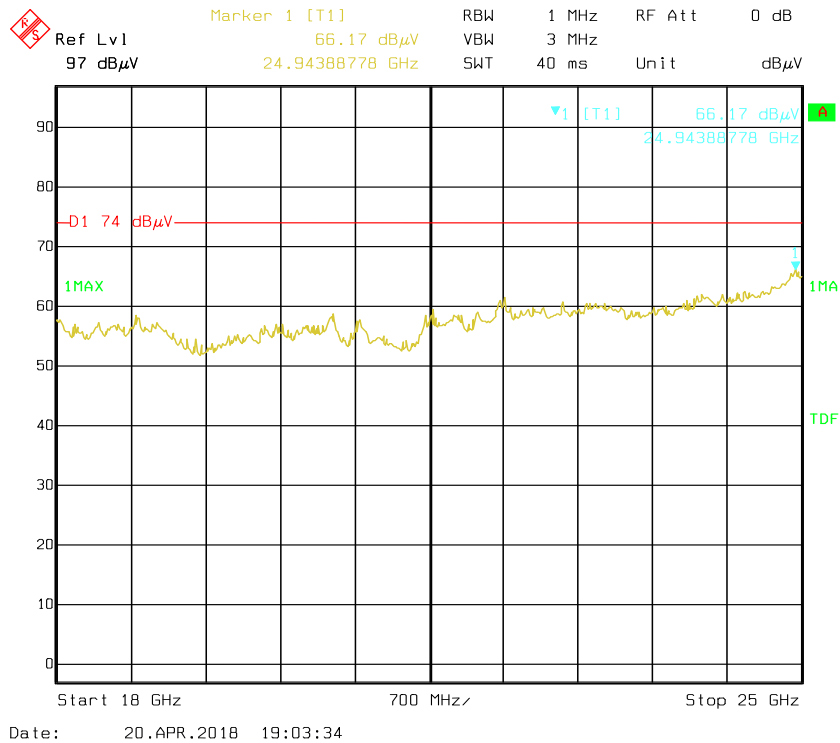
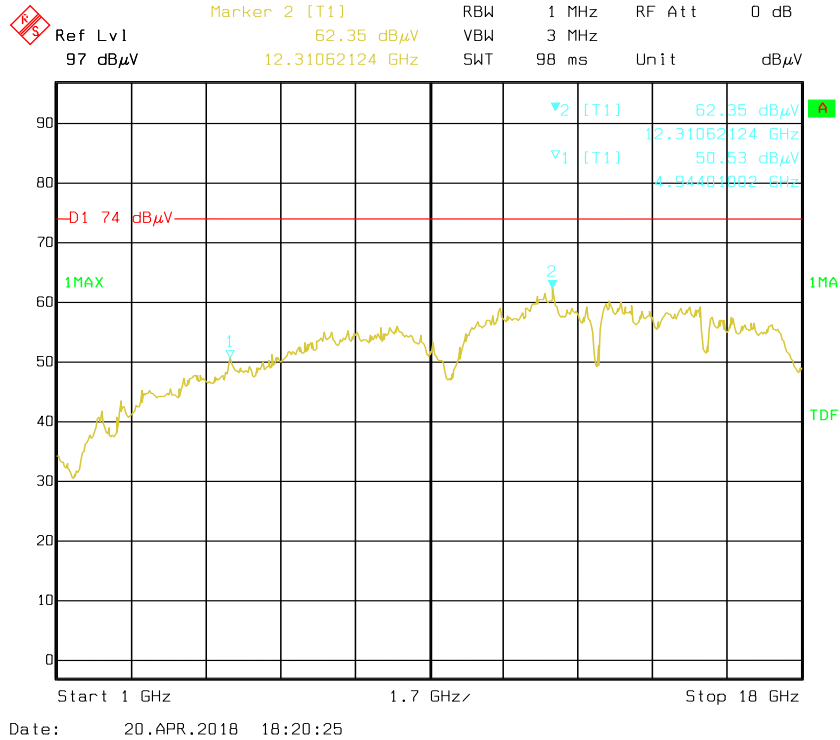
Margin = Limit - Corrected. Amplitude

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

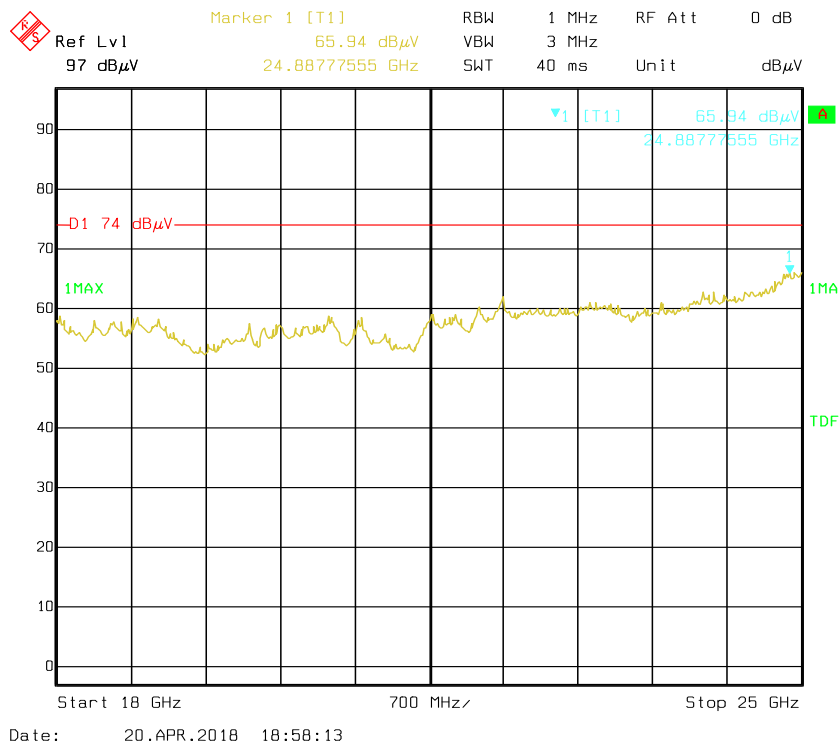
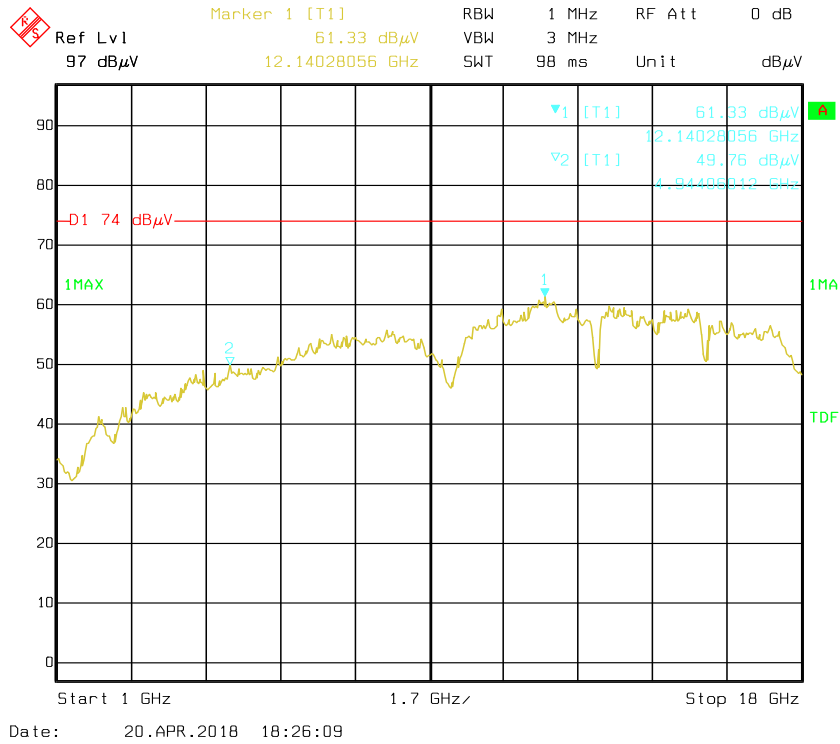
And for the pre-scan is performed with the 2400-2483.5MHz band filter.

Pre-scan with 802.11 b Mode, High channel for Peak

Horizontal

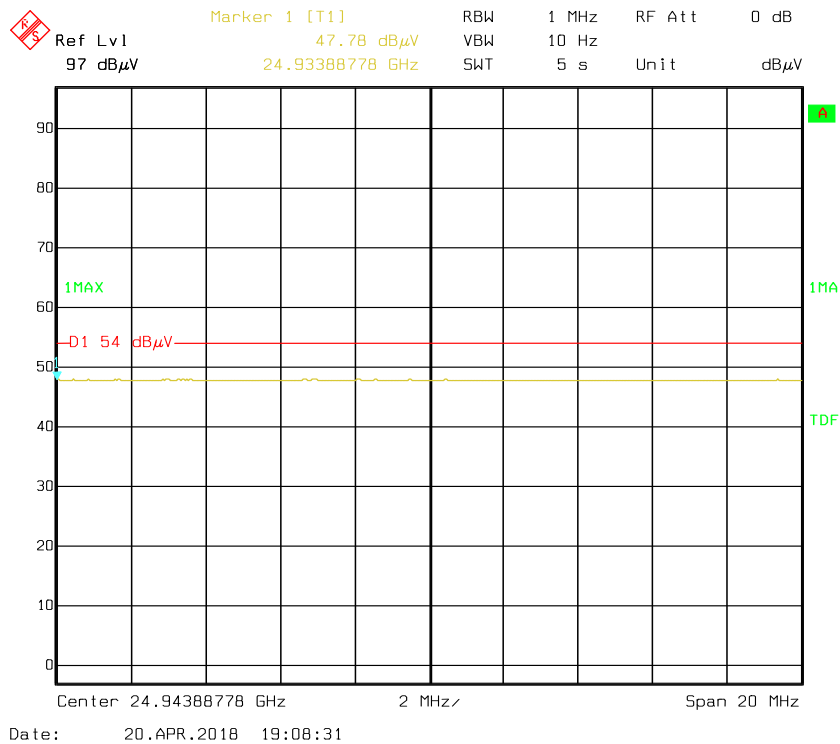
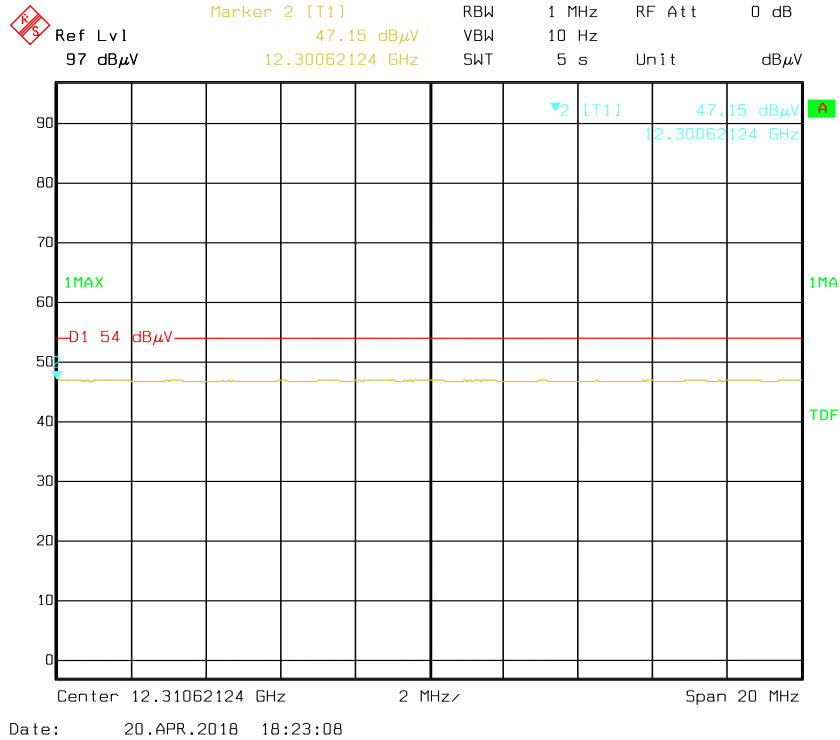


Vertical

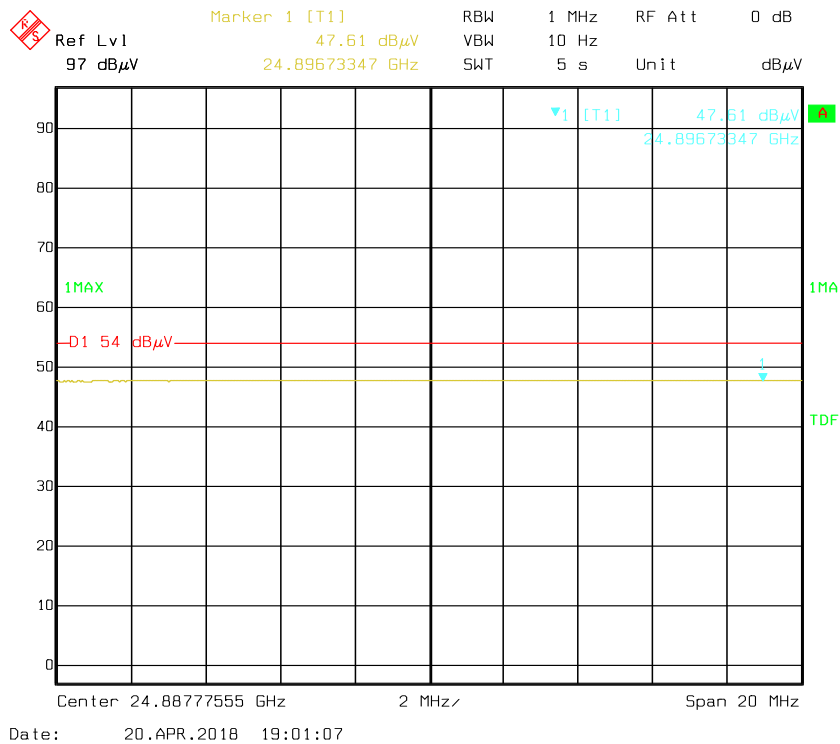
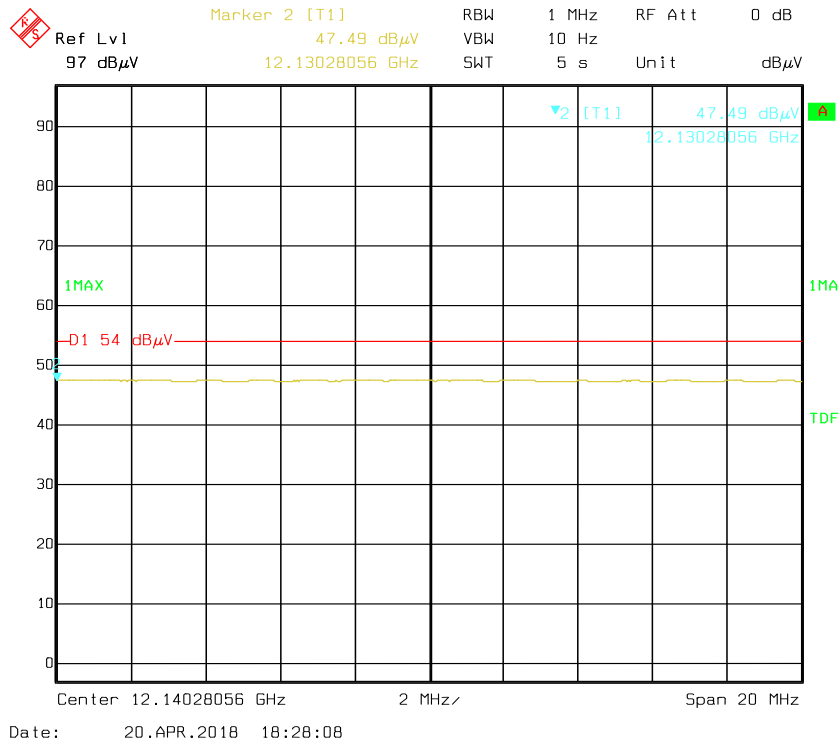


For Average

Horizontal



Vertical



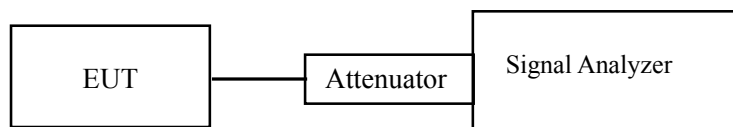
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH&99% OCCUPIED BANDWIDTH

Applicable Standard

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

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	25~26 °C
Relative Humidity:	52~53 %
ATM Pressure:	101.5~101.6 kPa

The testing was performed by Tracy Hu on 2018-03-22 and 2018-03-29.

Test Result: Pass.

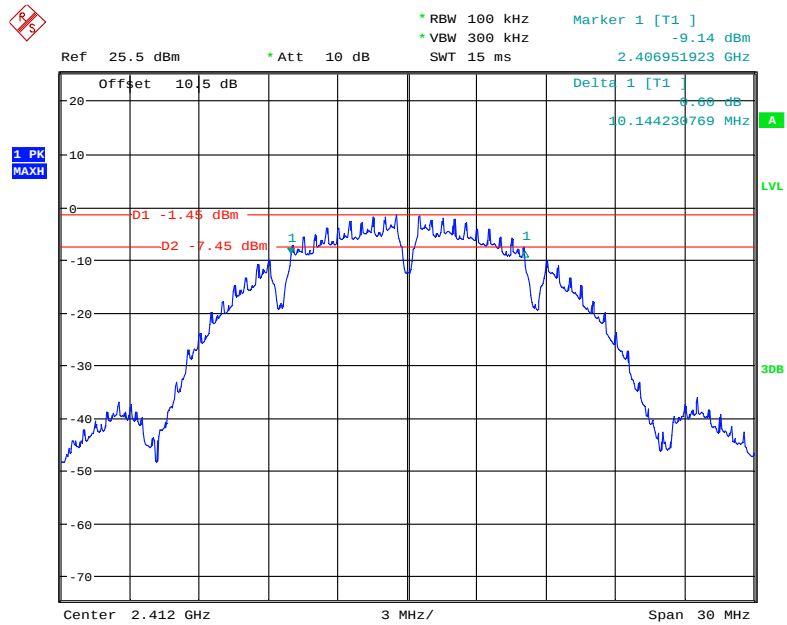
Please refer to the following table and plots.

EUT operation mode: Transmitting(SISO mode)

Antenna 0:

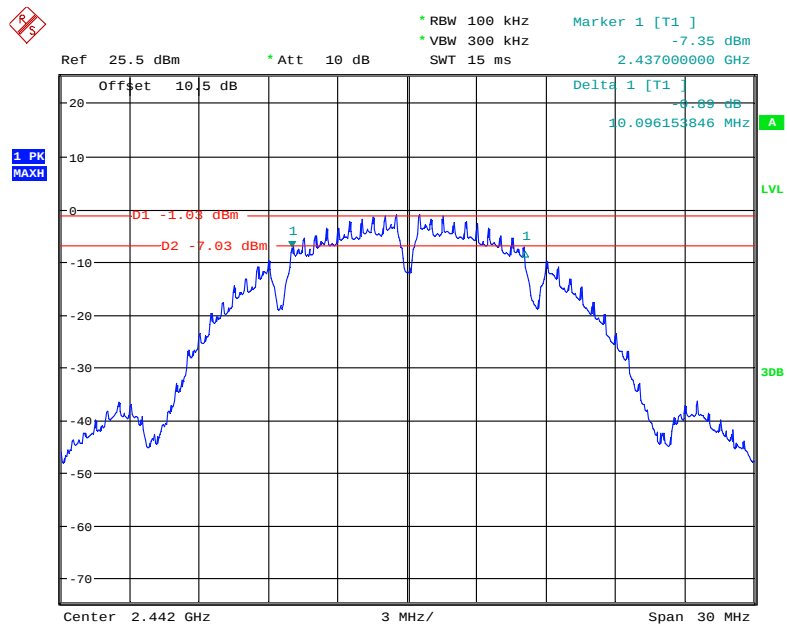
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)
802.11b			
Low	2412	10.14	≥500
Middle	2442	10.10	≥500
High	2472	10.14	≥500
802.11g			
Low	2412	16.49	≥500
Middle	2442	16.49	≥500
High	2472	16.44	≥500
802.11n-HT20			
Low	2412	17.74	≥500
Middle	2442	17.64	≥500
High	2472	17.64	≥500
802.11n-HT40			
Low	2422	36.25	≥500
Middle	2442	35.58	≥500
High	2462	35.87	≥500

6 dB Emission Bandwidth, 802.11b Low Channel



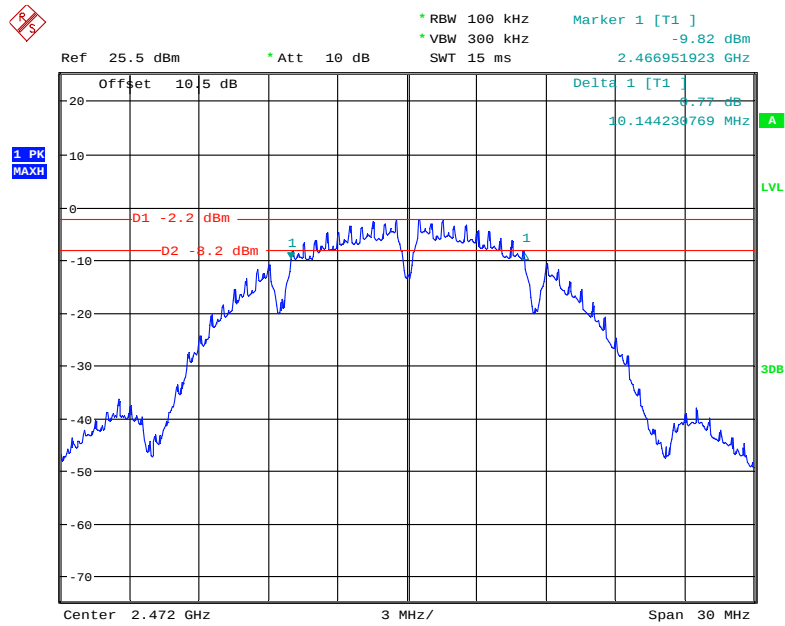
Date: 22.MAR.2018 20:53:42

6 dB Emission Bandwidth, 802.11b Middle Channel



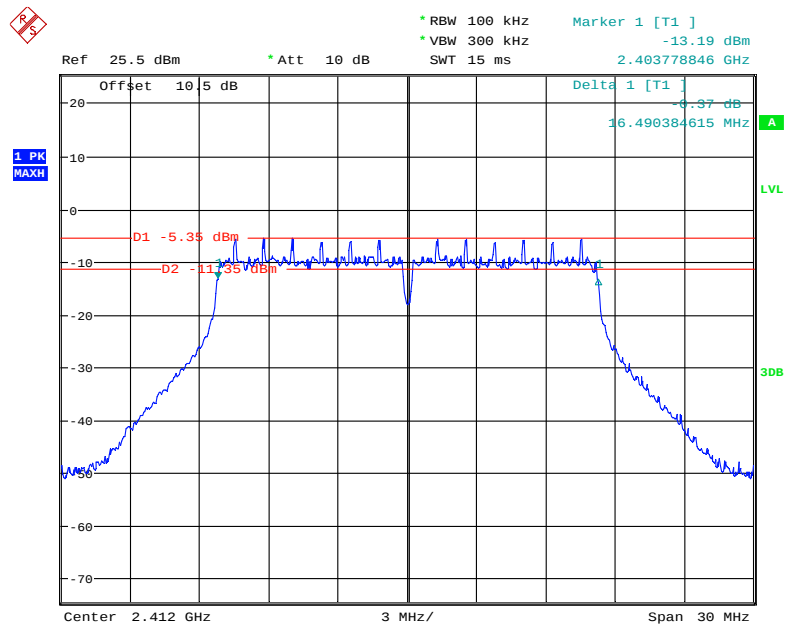
Date: 22.MAR.2018 20:59:15

6 dB Emission Bandwidth, 802.11b High Channel



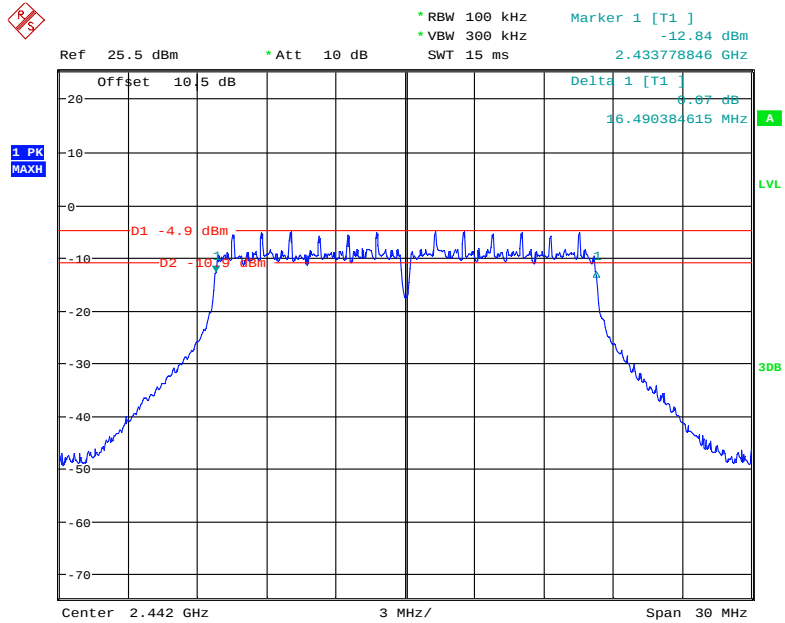
Date: 22.MAR.2018 20:55:25

6 dB Emission Bandwidth, 802.11g Low Channel



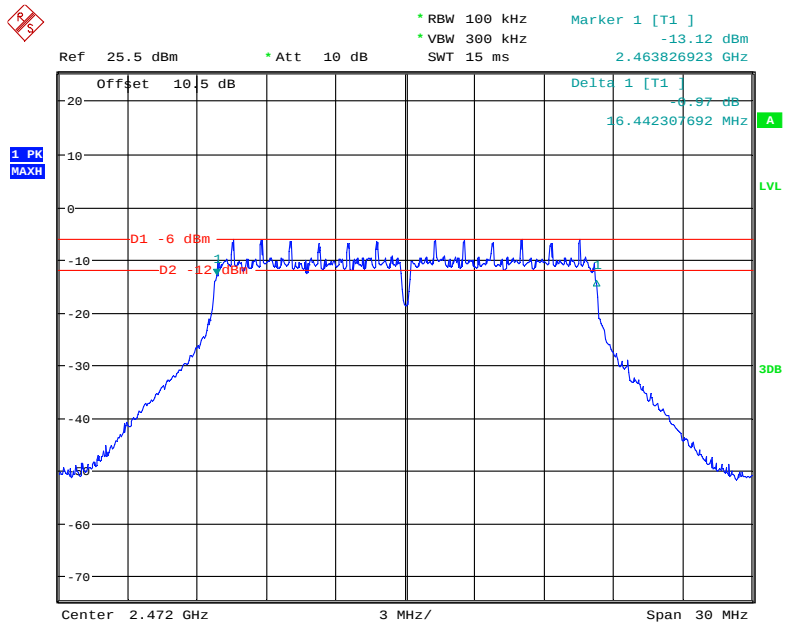
Date: 22.MAR.2018 21:00:50

6 dB Emission Bandwidth, 802.11g Middle Channel



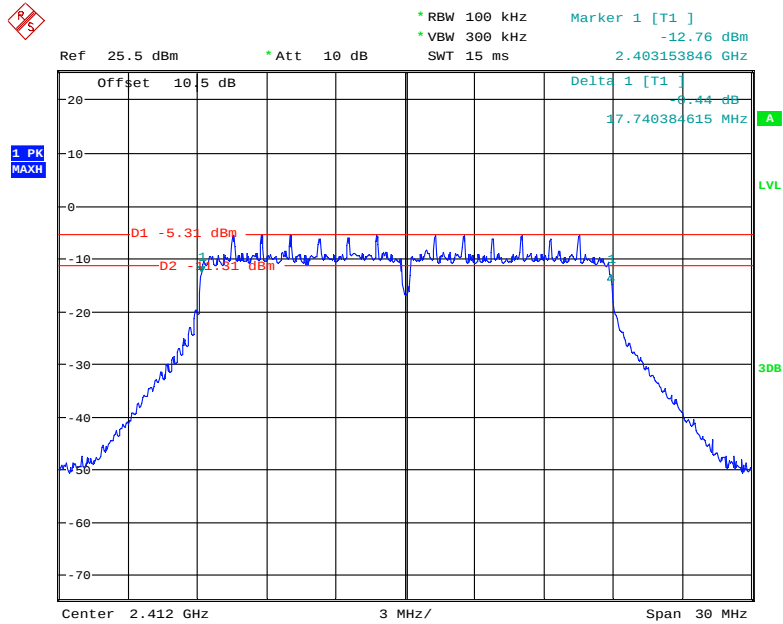
Date: 22.MAR.2018 21:05:45

6 dB Emission Bandwidth, 802.11g High Channel



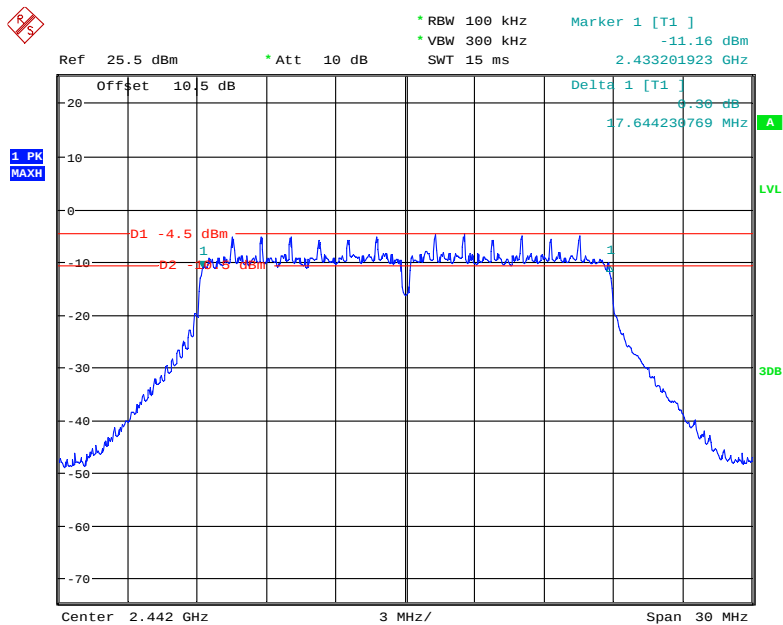
Date: 22.MAR.2018 21:02:54

6 dB Emission Bandwidth, 802.11n-HT20 Low Channel



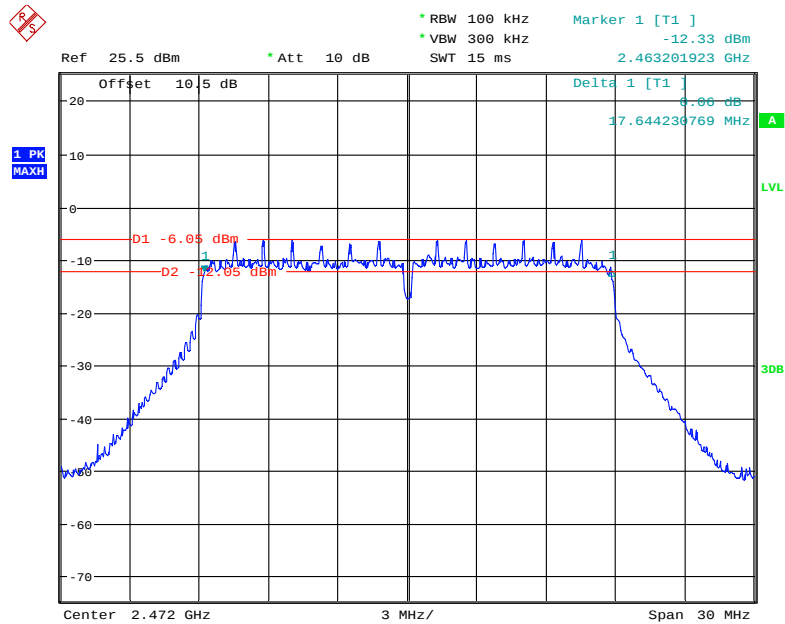
Date: 22.MAR.2018 21:13:44

6 dB Emission Bandwidth, 802.11n-HT20 Middle Channel



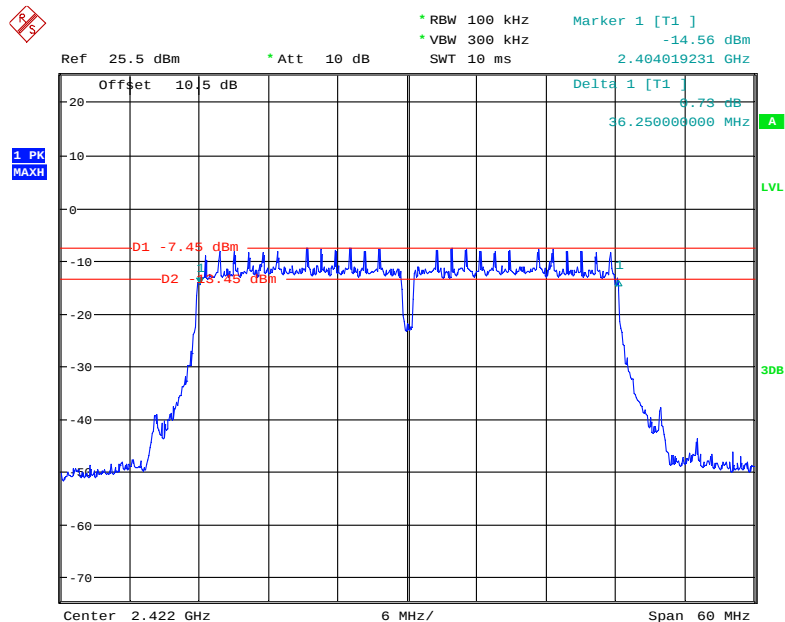
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6 dB Emission Bandwidth, 802.11n-HT20 High Channel

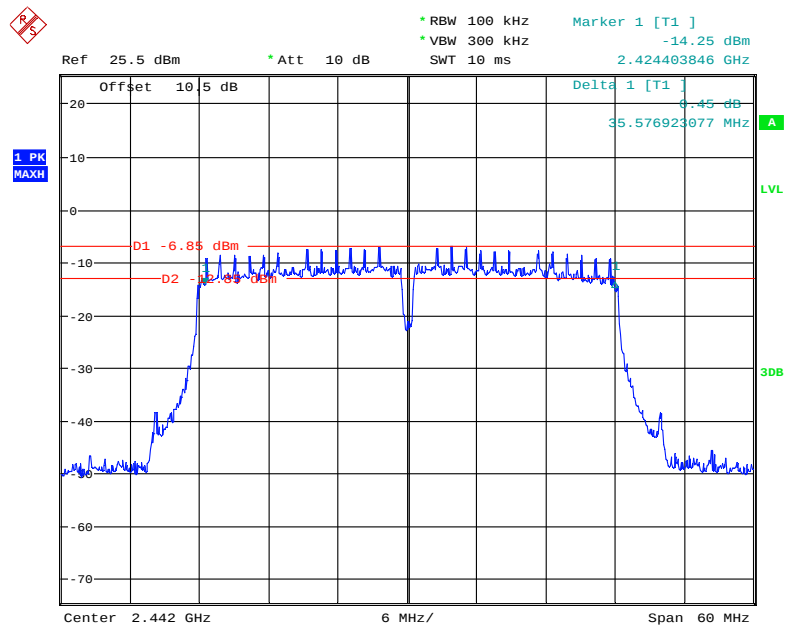


Date: 22.MAR.2018 21:11:31

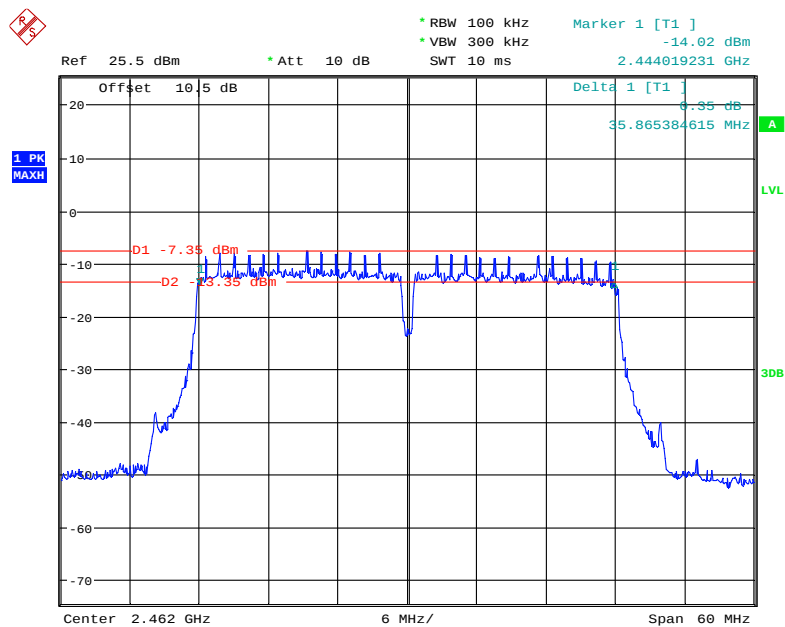
6 dB Emission Bandwidth, 802.11n-HT40 Low Channel



Date: 22.MAR.2018 22:50:51

6 dB Emission Bandwidth, 802.11n-HT40 Middle Channel

Date: 22.MAR.2018 22:52:24

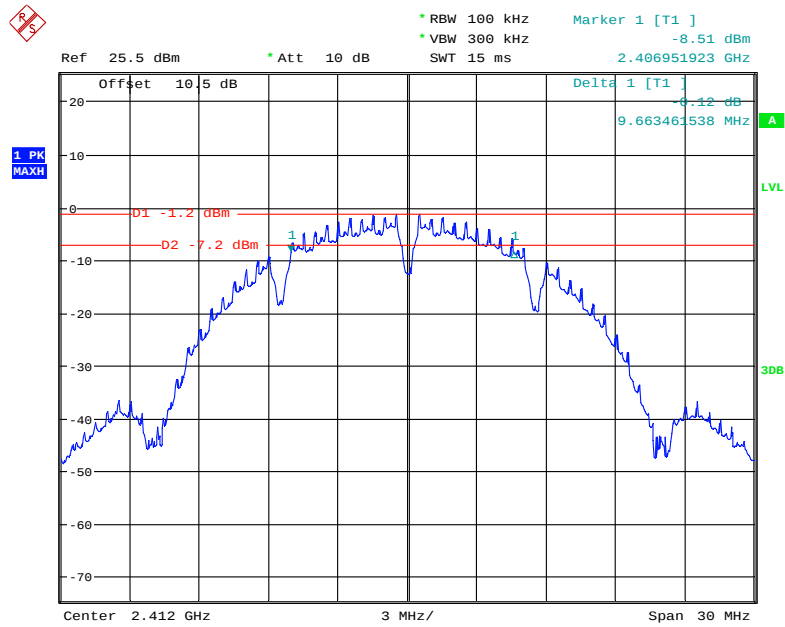
6 dB Emission Bandwidth, 802.11n-HT40 High Channel

Date: 22.MAR.2018 22:53:40

Antenna 1:

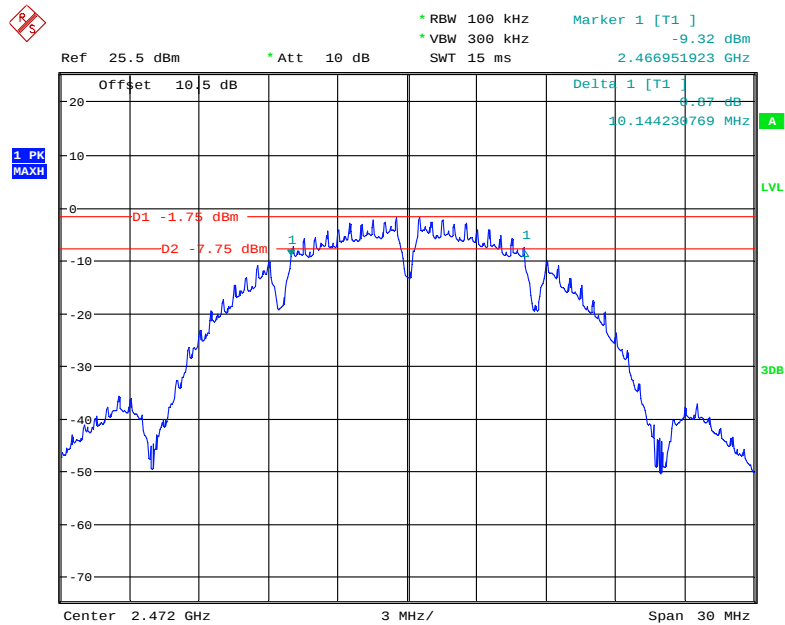
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)
802.11b			
Low	2412	9.66	≥ 500
Middle	2442	10.14	≥ 500
High	2472	10.14	≥ 500
802.11g			
Low	2412	16.44	≥ 500
Middle	2442	16.47	≥ 500
High	2472	16.44	≥ 500
802.11n-HT20			
Low	2412	17.69	≥ 500
Middle	2442	17.50	≥ 500
High	2472	17.69	≥ 500
802.11n-HT40			
Low	2422	36.15	≥ 500
Middle	2442	35.94	≥ 500
High	2462	36.07	≥ 500

6 dB Emission Bandwidth, 802.11b Low Channel



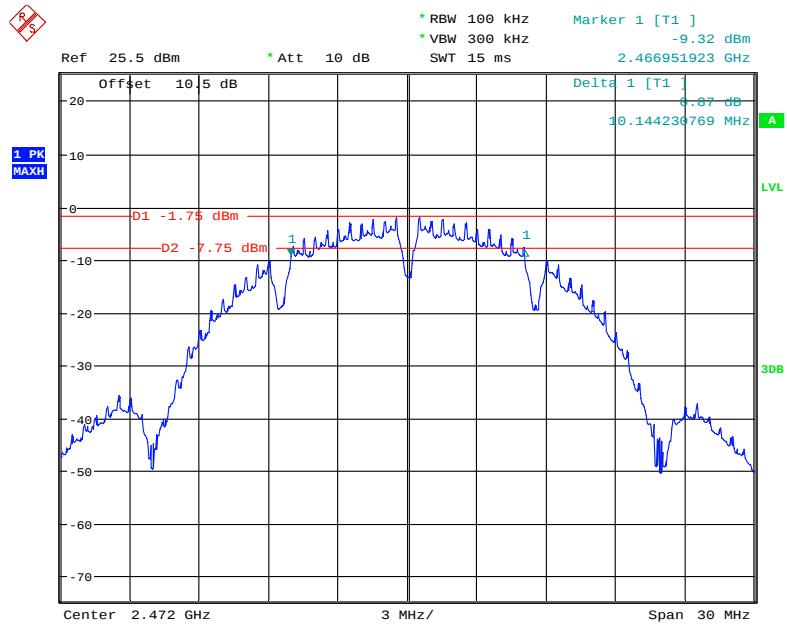
Date: 22.MAR.2018 23:41:46

6 dB Emission Bandwidth, 802.11b Middle Channel



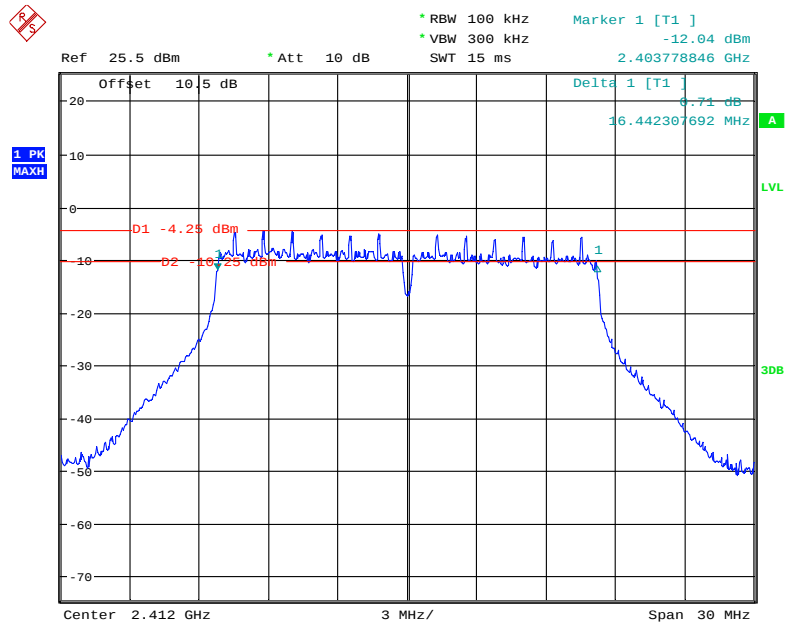
Date: 22.MAR.2018 23:43:25

6 dB Emission Bandwidth, 802.11b High Channel



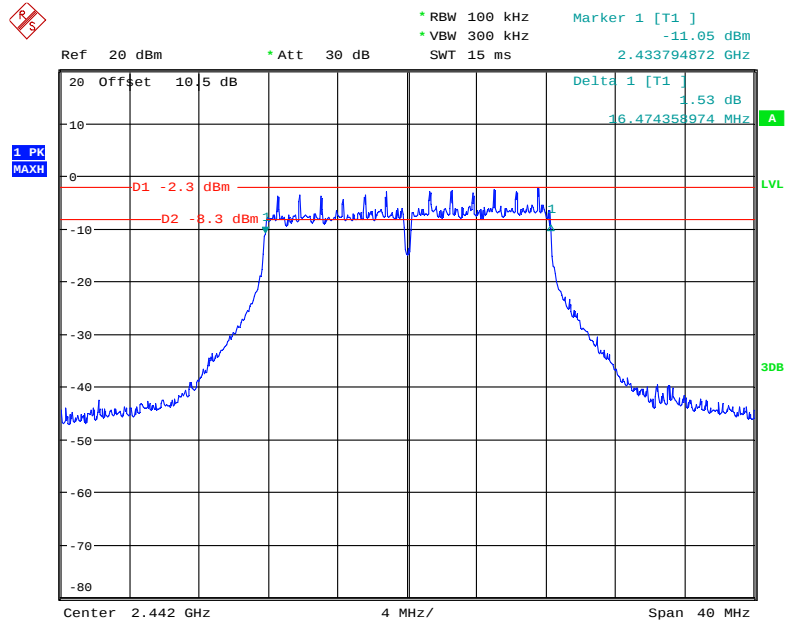
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6 dB Emission Bandwidth, 802.11g Low Channel



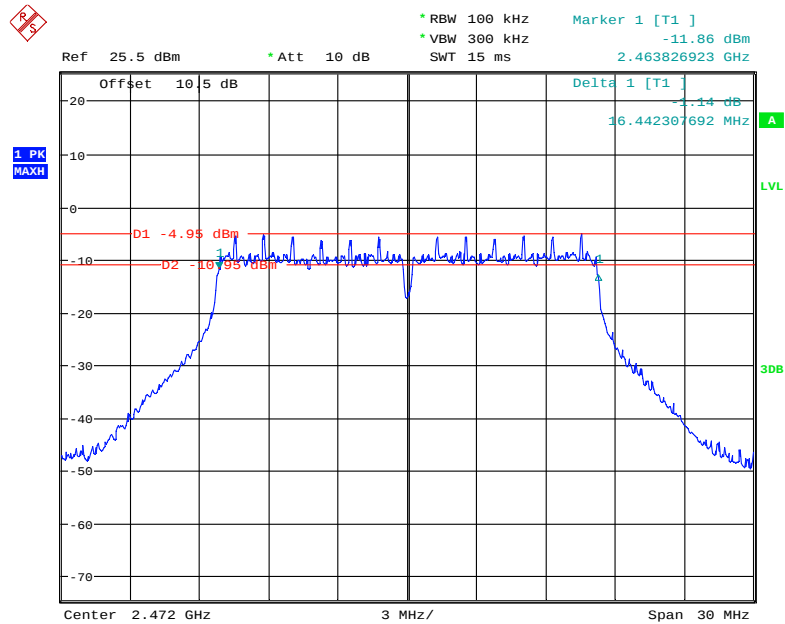
Date: 22.MAR.2018 23:54:47

6 dB Emission Bandwidth, 802.11g Middle Channel



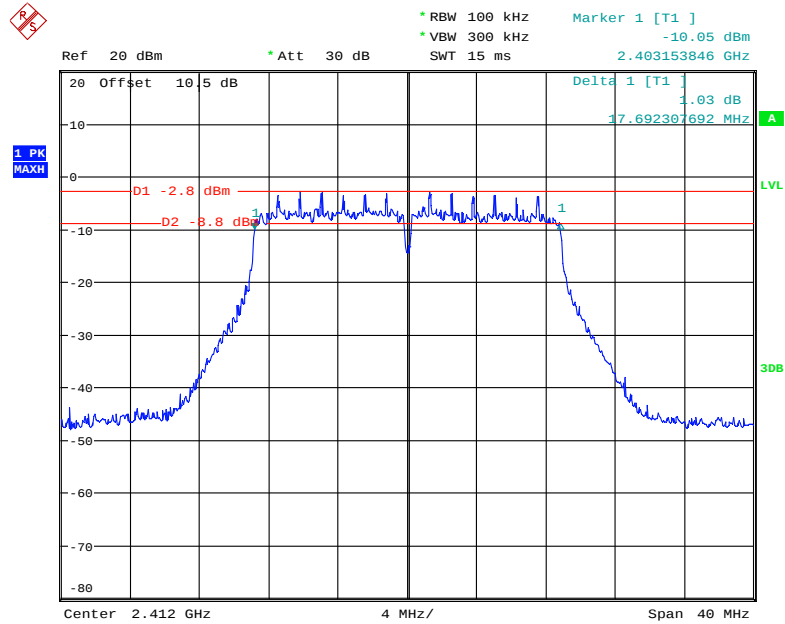
Date: 29.MAR.2018 21:26:49

6 dB Emission Bandwidth, 802.11g High Channel



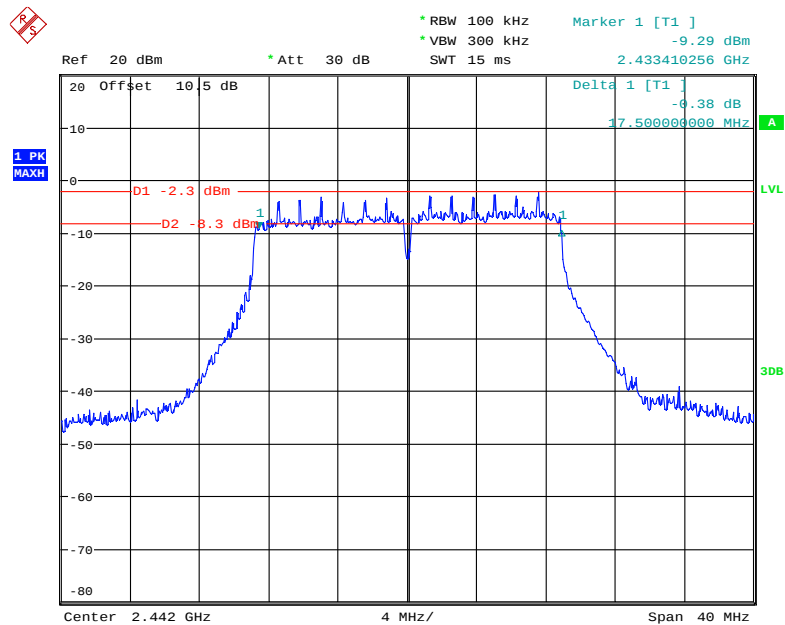
Date: 22.MAR.2018 23:53:02

6 dB Emission Bandwidth, 802.11n-HT20 Low Channel



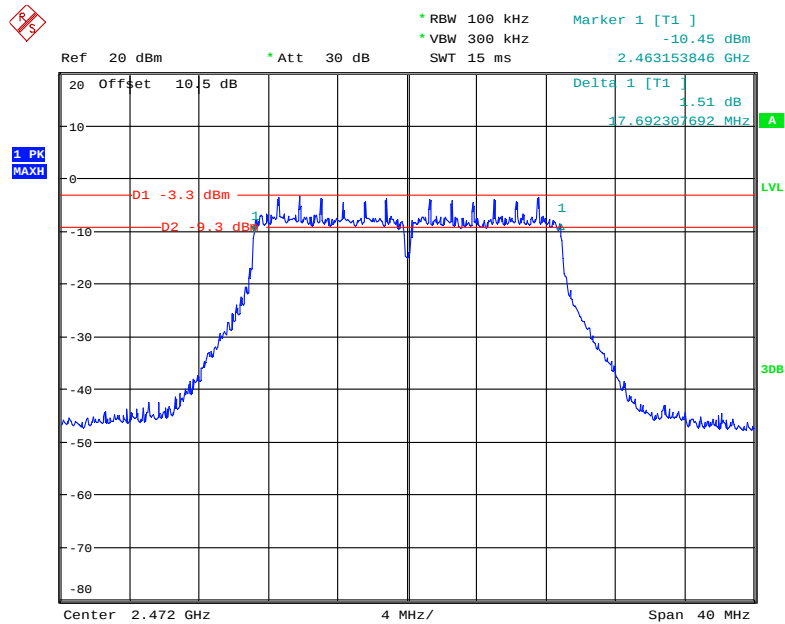
Date: 29.MAR.2018 21:31:40

6 dB Emission Bandwidth, 802.11n-HT20 Middle Channel



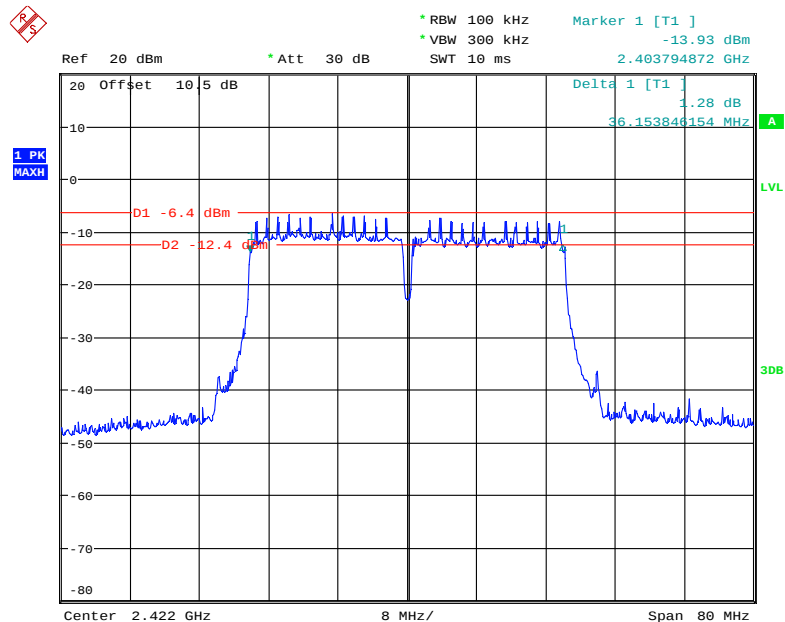
Date: 29.MAR.2018 21:29:43

6 dB Emission Bandwidth, 802.11n-HT20 High Channel



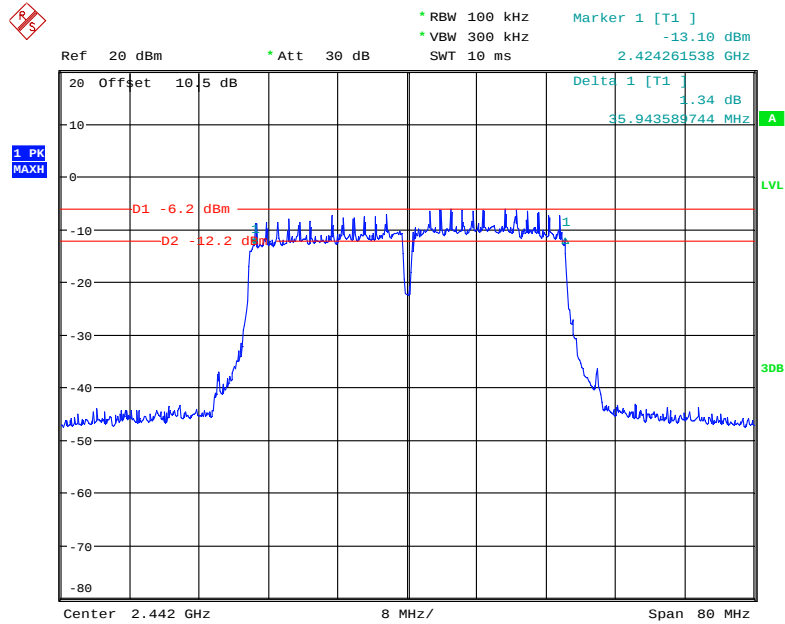
Date: 29.MAR.2018 21:30:44

6 dB Emission Bandwidth, 802.11n-HT40 Low Channel



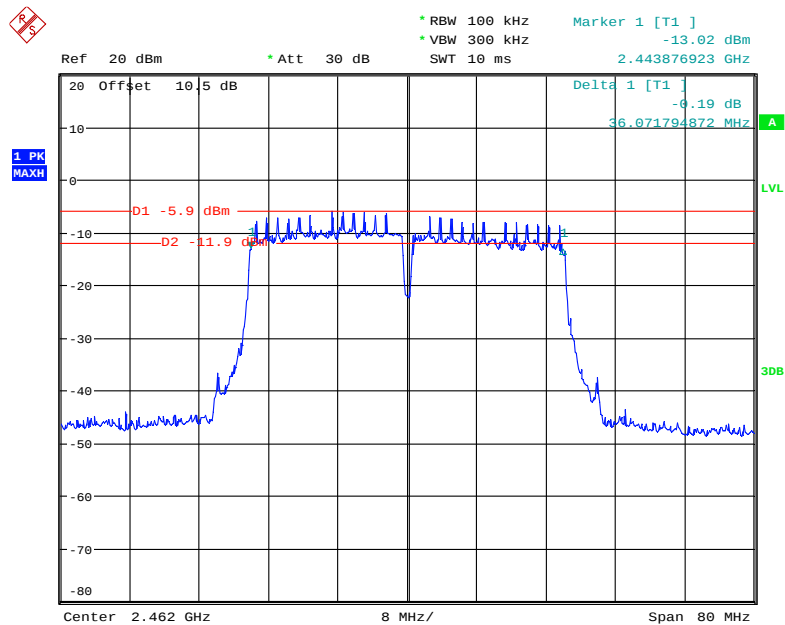
Date: 29.MAR.2018 21:33:01

6 dB Emission Bandwidth, 802.11n-HT40 Middle Channel



Date: 29.MAR.2018 21:34:17

6 dB Emission Bandwidth, 802.11n-HT40 High Channel



Date: 29.MAR.2018 21:34:59

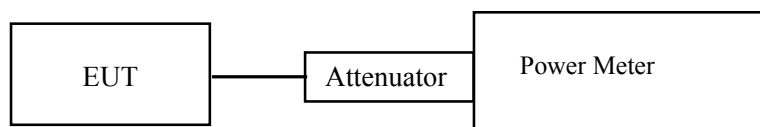
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

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

Test Procedure

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



Test Data

Environmental Conditions

Temperature:	23~25 °C
Relative Humidity:	51~52 %
ATM Pressure:	101.0~101.5 kPa

The testing was performed by Tracy Hu on 2018-03-22 and 2018-04-20.

EUT operation mode: Transmitting

SISO mode**Antenna 0:**

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Max Conducted Average Output Power (dBm)	Limit (dBm)
802.11b				
Low	2412	11.70	8.79	30
Middle	2442	12.33	9.18	30
High	2472	10.91	8.01	30
802.11g				
Low	2412	14.73	8.70	30
Middle	2442	15.05	8.85	30
High	2472	13.79	7.76	30
802.11n HT20				
Low	2412	14.67	8.49	30
Middle	2442	15.17	9.49	30
High	2472	13.95	8.06	30
802.11n HT40				
Low	2422	15.00	8.80	30
Middle	2442	14.86	9.12	30
High	2462	14.61	8.56	30

Antenna 1:

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Max Conducted Average Output Power (dBm)	Limit (dBm)
802.11b				
Low	2412	11.34	8.53	30
Middle	2442	11.50	8.71	30
High	2472	10.68	8.00	30
802.11g				
Low	2412	14.67	8.59	30
Middle	2442	15.06	9.03	30
High	2472	14.24	8.30	30
802.11n HT20				
Low	2412	14.66	8.73	30
Middle	2442	15.15	9.27	30
High	2472	14.24	8.43	30
802.11n HT40				
Low	2422	14.68	8.39	30
Middle	2442	15.13	9.21	30
High	2462	15.37	9.17	30

MIMO mode**Antenna 0 & 1:**

Channel	Frequency (MHz)	antenna	Conducted Peak Output Power (dBm)	Total Conducted Peak Output Power (dBm)	Conducted Average Output Power (dBm)	Total Conducted Average Output Power (dBm)	Limit (dBm)
802.11b							
Low	2412	ANT 0	11.48	14.35	8.92	11.73	30
		ANT 1	11.20		8.52		
Middle	2442	ANT 0	11.77	14.58	8.91	11.76	30
		ANT 1	11.35		8.59		
High	2472	ANT 0	10.81	13.62	8.05	10.87	30
		ANT 1	10.39		7.67		
802.11g							
Low	2412	ANT 0	15.23	17.83	9.32	12.00	30
		ANT 1	14.37		8.63		
Middle	2442	ANT 0	15.86	18.29	9.57	12.35	30
		ANT 1	14.60		9.09		
High	2472	ANT 0	14.87	17.16	9.06	11.38	30
		ANT 1	13.29		7.56		
802.11n HT20							
Low	2412	ANT 0	15.27	18.03	9.54	12.49	30
		ANT 1	14.76		9.42		
Middle	2442	ANT 0	14.63	17.74	9.43	12.49	30
		ANT 1	14.83		9.53		
High	2472	ANT 0	14.31	16.95	9.13	11.79	30
		ANT 1	13.54		8.40		
802.11n HT40							
Low	2422	ANT 0	15.42	18.08	9.43	12.19	30
		ANT 1	14.68		8.92		
Middle	2442	ANT 0	15.53	18.39	9.50	12.43	30
		ANT 1	15.23		9.33		
High	2462	ANT 0	16.13	18.30	9.53	12.10	30
		ANT 1	14.25		8.59		

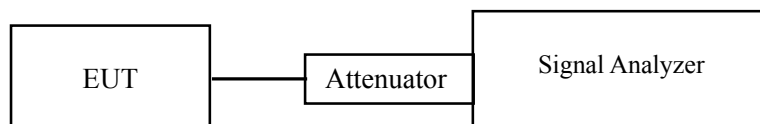
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

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:	52 %
ATM Pressure:	101.5 kPa

The testing was performed by Tracy Hu on 2018-03-22.

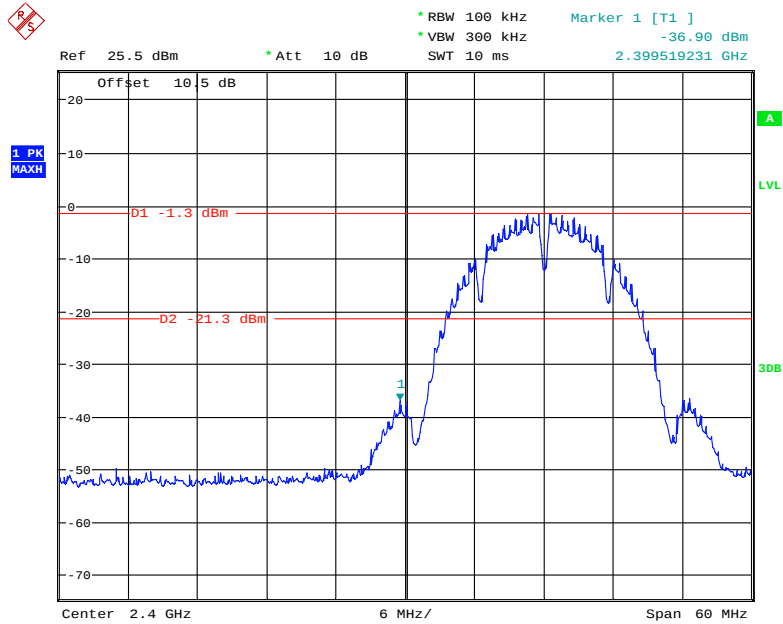
EUT operation mode: Transmitting(the worst case is SISO mode)

Test Result: Compliance

Please refer to the following plots.

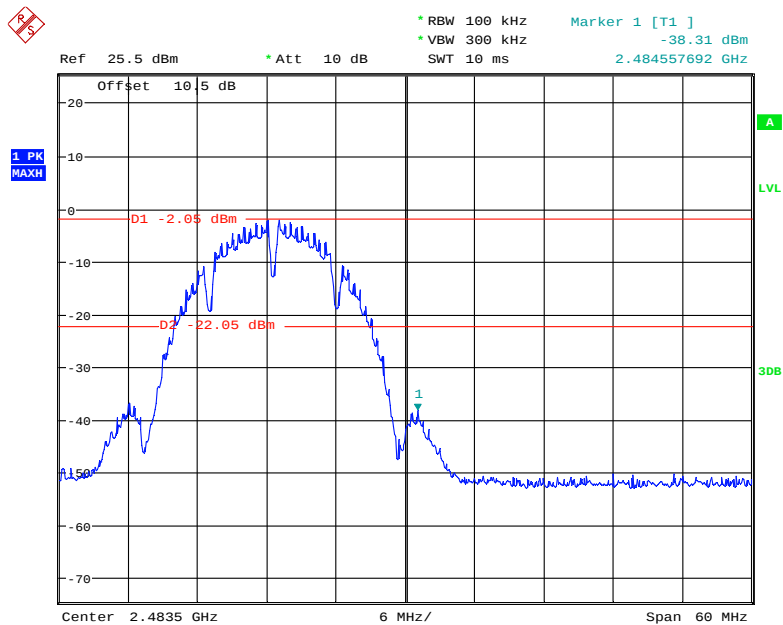
Antenna 0:

802.11b: Band Edge, Left Side



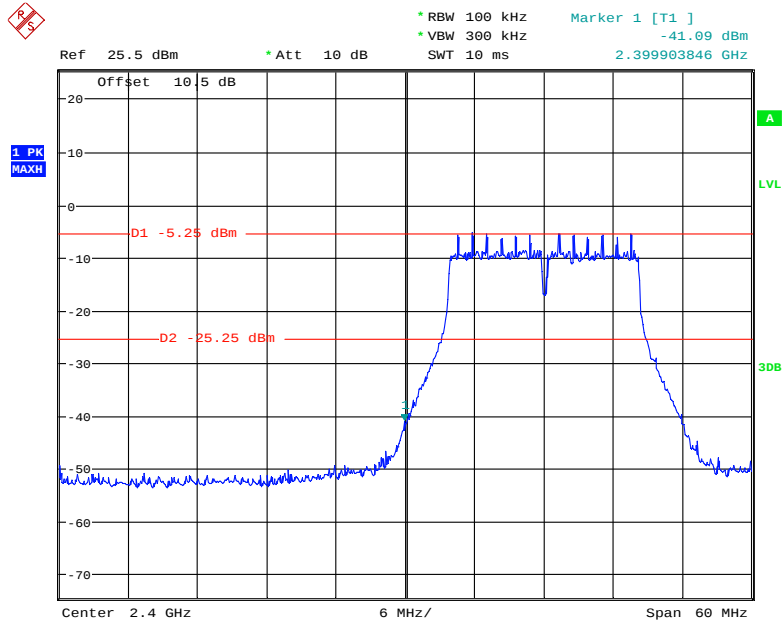
Date: 22.MAR.2018 20:52:01

802.11b: Band Edge, Right Side



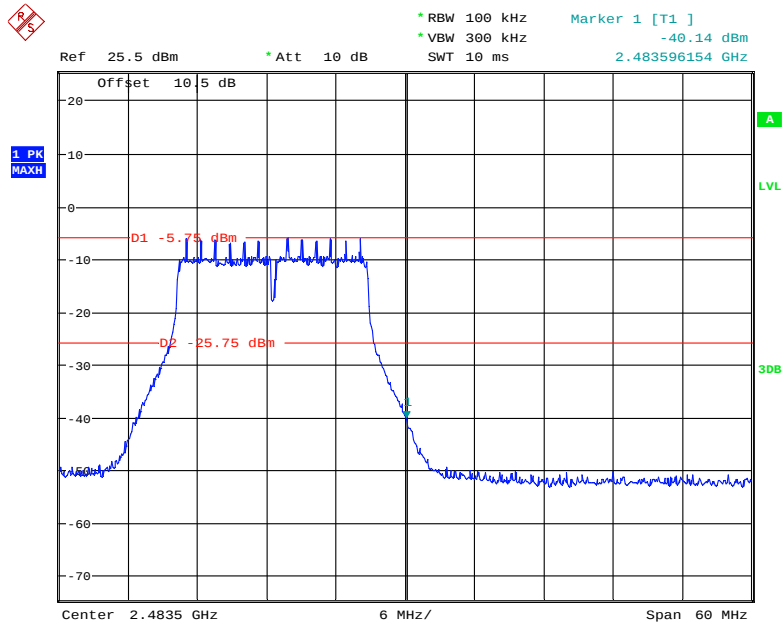
Date: 22.MAR.2018 20:50:19

802.11g: Band Edge, Left Side



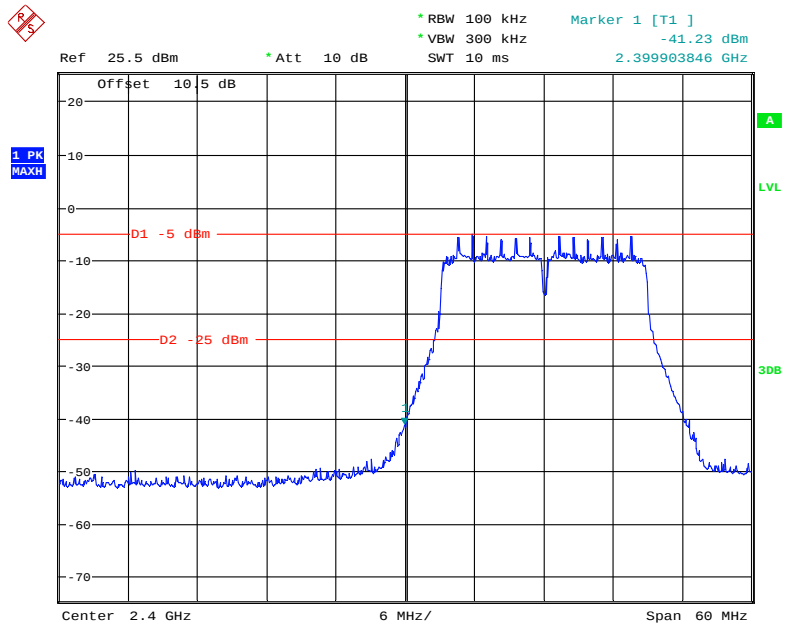
Date: 22.MAR.2018 20:48:16

802.11g: Band Edge, Right Side



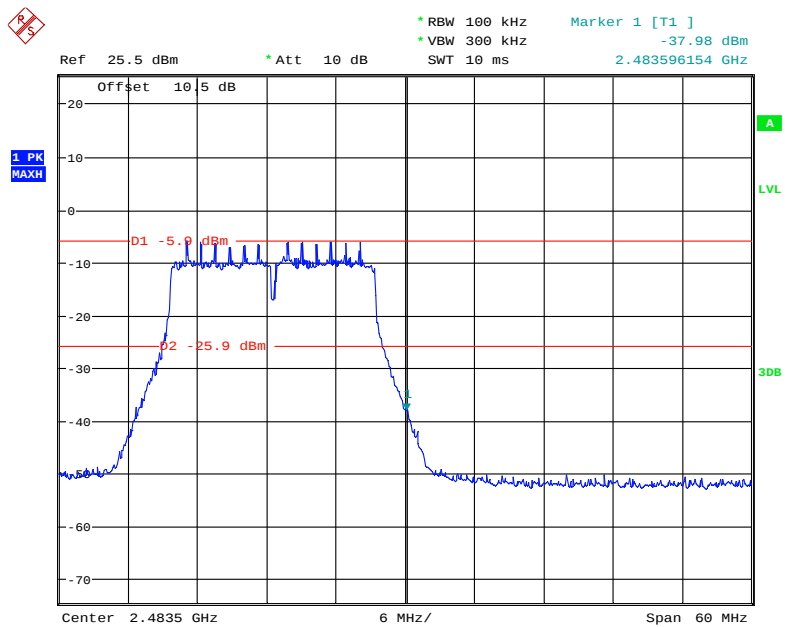
Date: 22.MAR.2018 20:46:03

802.11n-HT20: Band Edge, Left Side



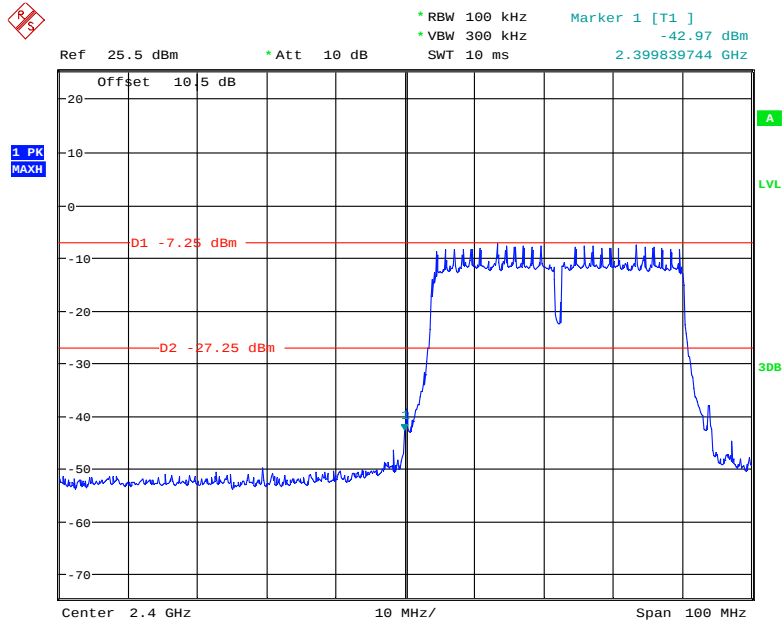
Date: 22.MAR.2018 20:40:33

802.11n-HT20: Band Edge, Right Side



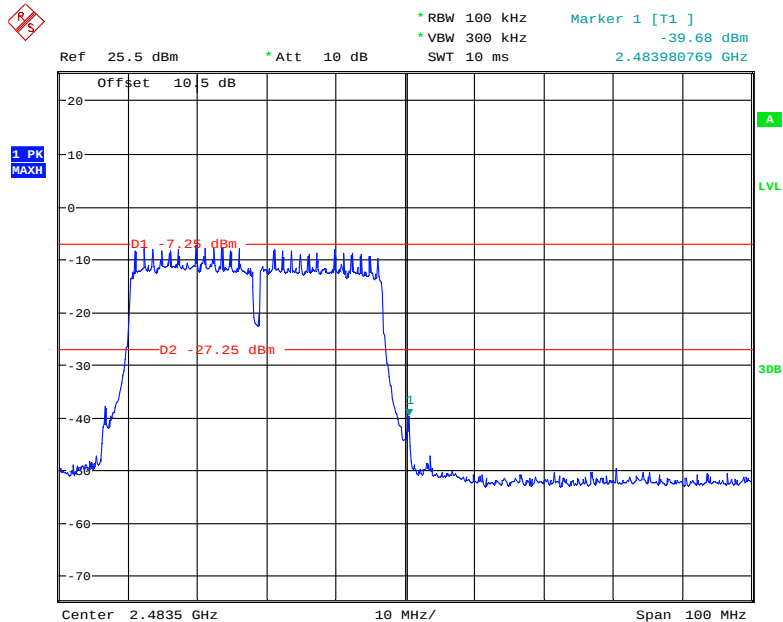
Date: 22.MAR.2018 20:43:03

802.11n-HT40: Band Edge, Left Side



Date: 22.MAR.2018 22:49:03

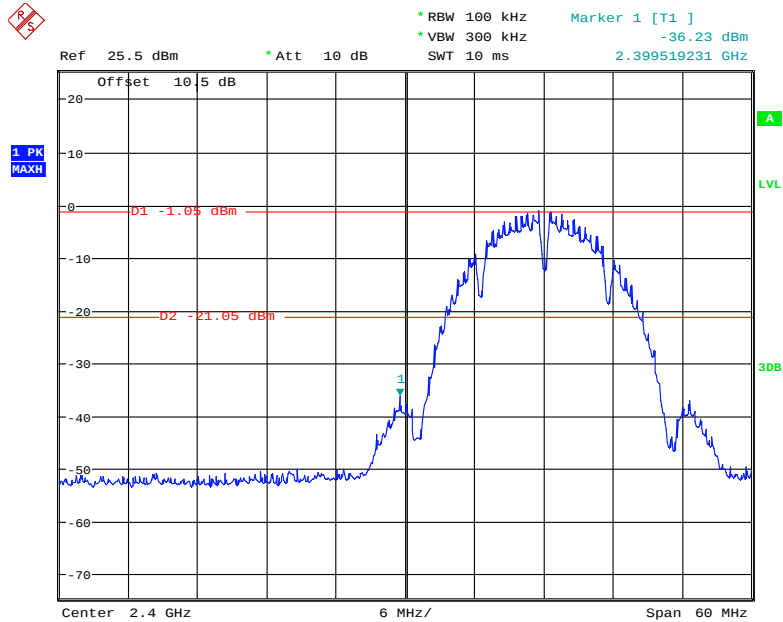
802.11n-HT40: Band Edge, Right Side



Date: 22.MAR.2018 22:47:53

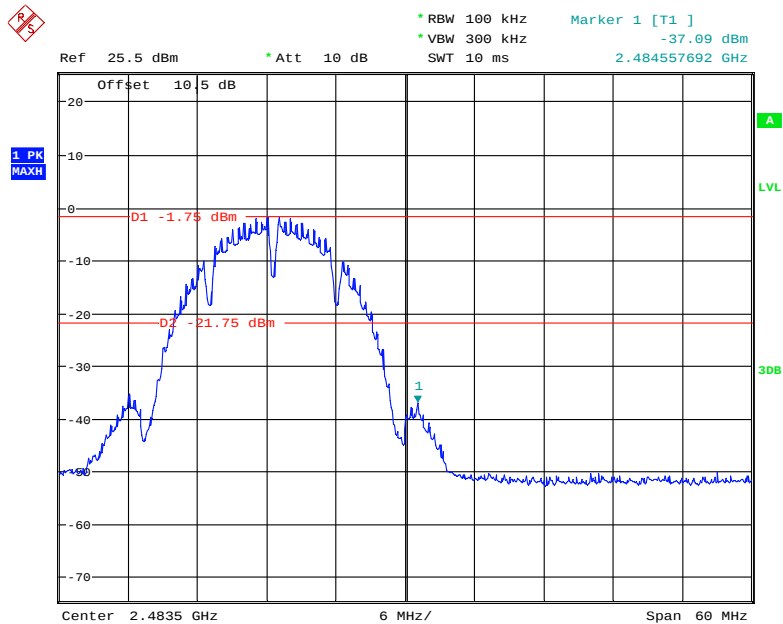
Antenna 1:

802.11b: Band Edge, Left Side



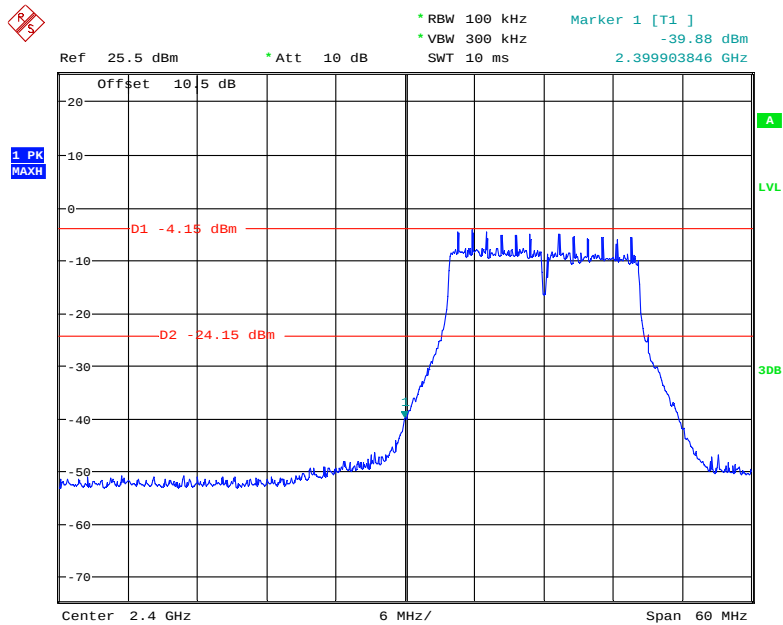
Date: 22.MAR.2018 23:40:16

802.11b: Band Edge, Right Side



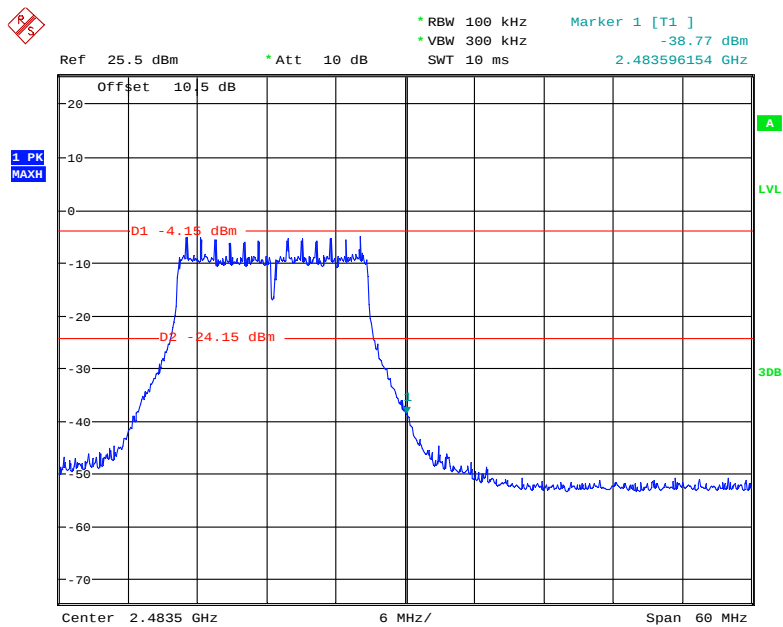
Date: 22.MAR.2018 23:39:05

802.11g: Band Edge, Left Side



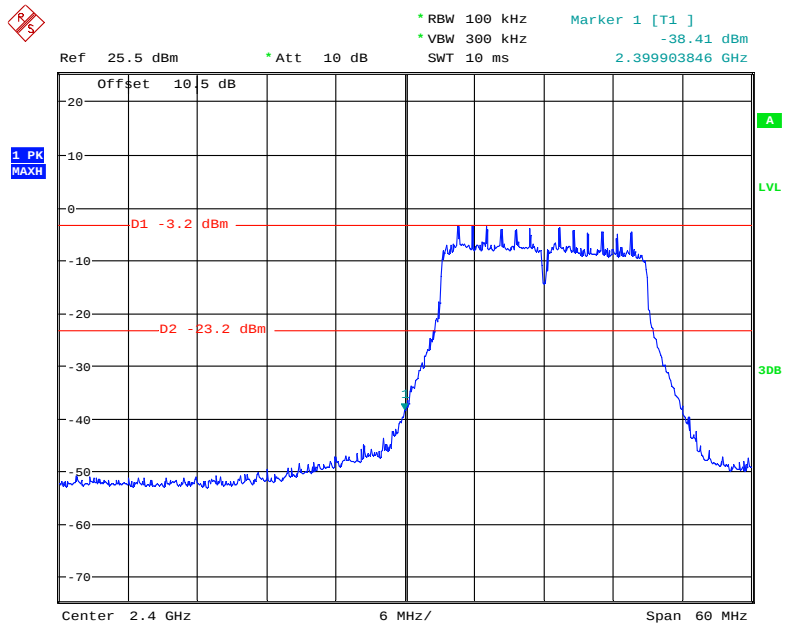
Date: 22.MAR.2018 23:34:46

802.11g: Band Edge, Right Side



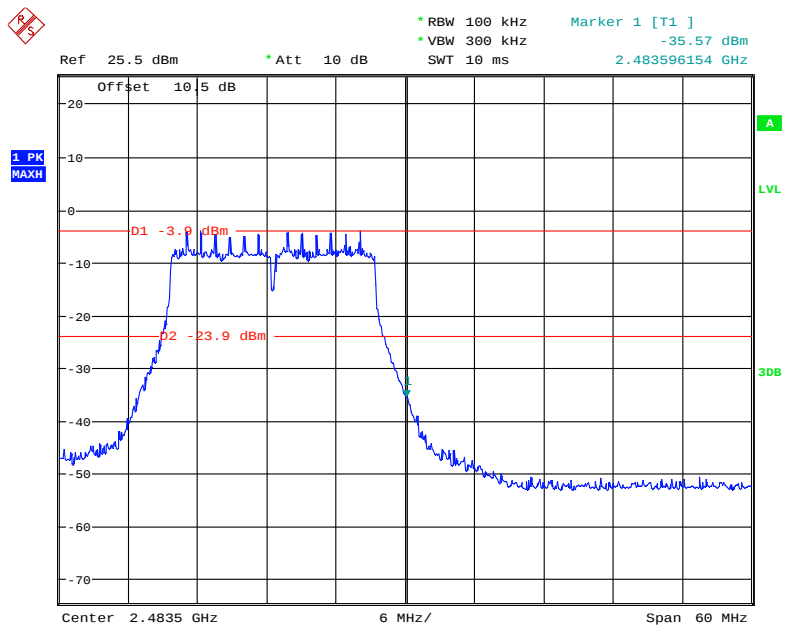
Date: 22.MAR.2018 23:36:11

802.11n-HT20: Band Edge, Left Side



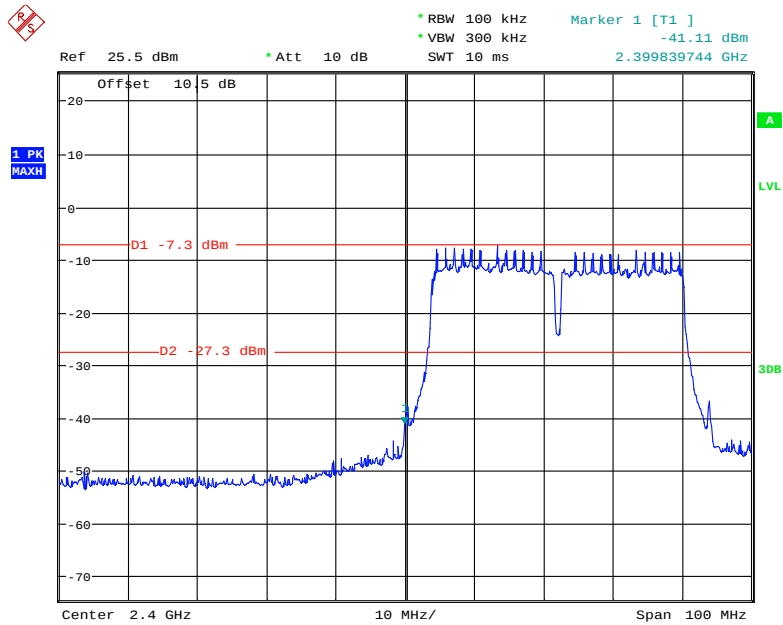
Date: 22.MAR.2018 23:32:22

802.11n-HT20: Band Edge, Right Side



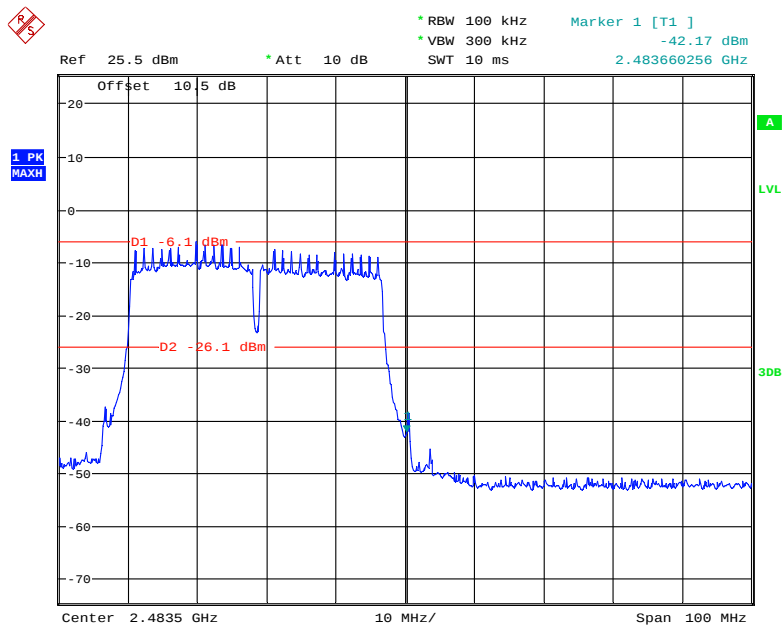
Date: 22.MAR.2018 23:29:34

802.11n-HT40: Band Edge, Left Side



Date: 22.MAR.2018 23:25:01

802.11n-HT40: Band Edge, Right Side



Date: 22.MAR.2018 23:22:43

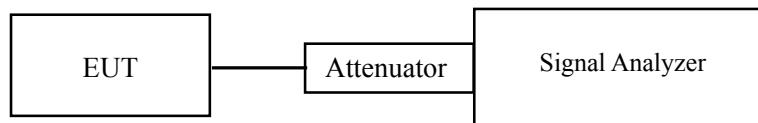
FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

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

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
3. Set the VBW $\geq 3 \times \text{RBW}$.
4. Set the span to 1.5 times the DTS bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

Temperature:	25~26 °C
Relative Humidity:	52~53 %
ATM Pressure:	101.5~101.6 kPa

The testing was performed by Tracy Hu from 2017-03-22 to 2018-04-18.

EUT operation mode: Transmitting

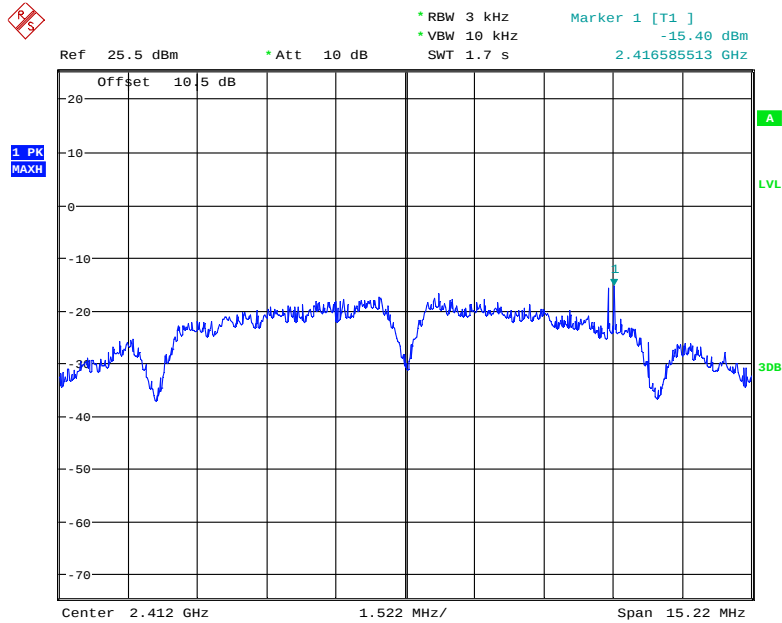
Test Result: Pass

SISO mode:

Antenna 0:

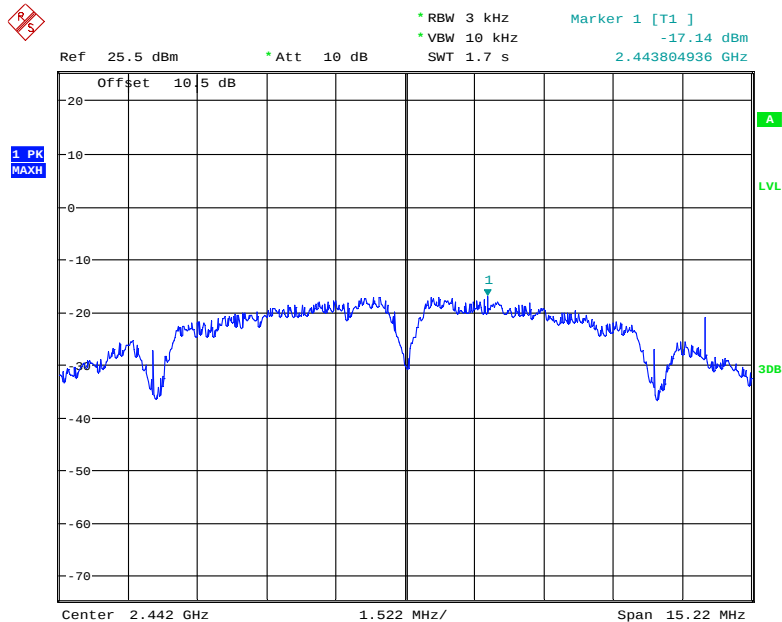
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b mode			
Low	2412	-15.40	≤ 8
Middle	2442	-17.14	≤ 8
High	2472	-16.17	≤ 8
802.11g mode			
Low	2412	-21.53	≤ 8
Middle	2442	-20.36	≤ 8
High	2472	-22.54	≤ 8
802.11n-HT20 mode			
Low	2412	-20.91	≤ 8
Middle	2442	-20.09	≤ 8
High	2472	-21.45	≤ 8
802.11n-HT40 mode			
Low	2422	-22.55	≤ 8
Middle	2442	-21.29	≤ 8
High	2462	-23.09	≤ 8

Power Spectral Density, 802.11b Low Channel



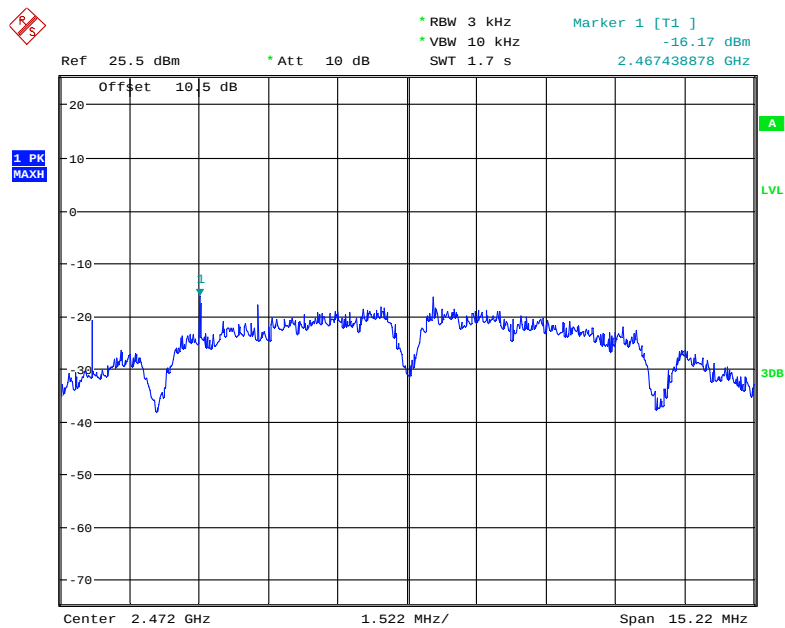
Date: 22.MAR.2018 21:48:27

Power Spectral Density, 802.11b Middle Channel



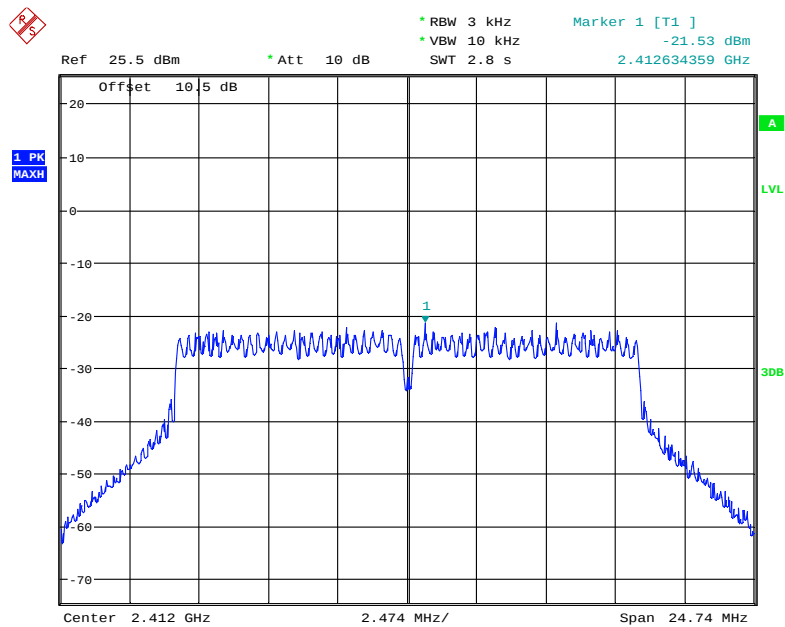
Date: 22.MAR.2018 21:47:28

Power Spectral Density, 802.11b High Channel



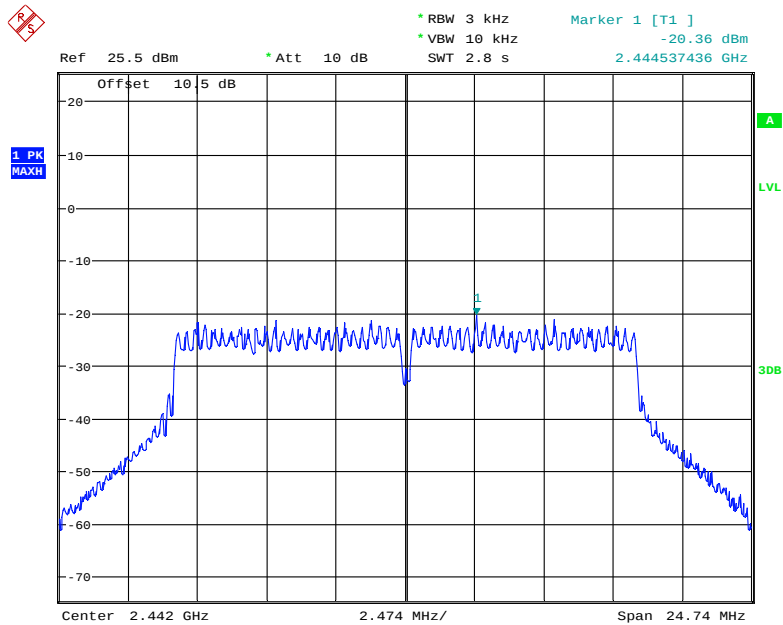
Date: 22.MAR.2018 21:49:07

Power Spectral Density, 802.11g Low Channel



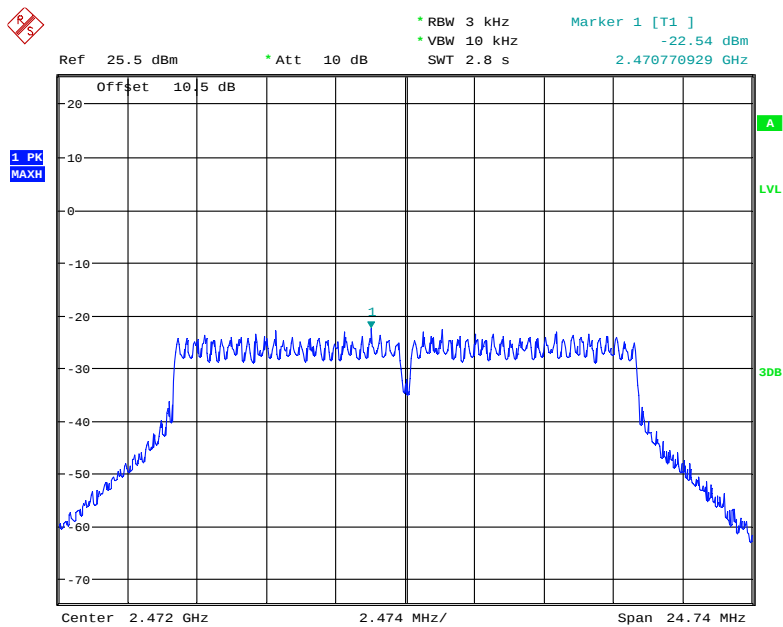
Date: 22.MAR.2018 21:45:10

Power Spectral Density, 802.11g Middle Channel



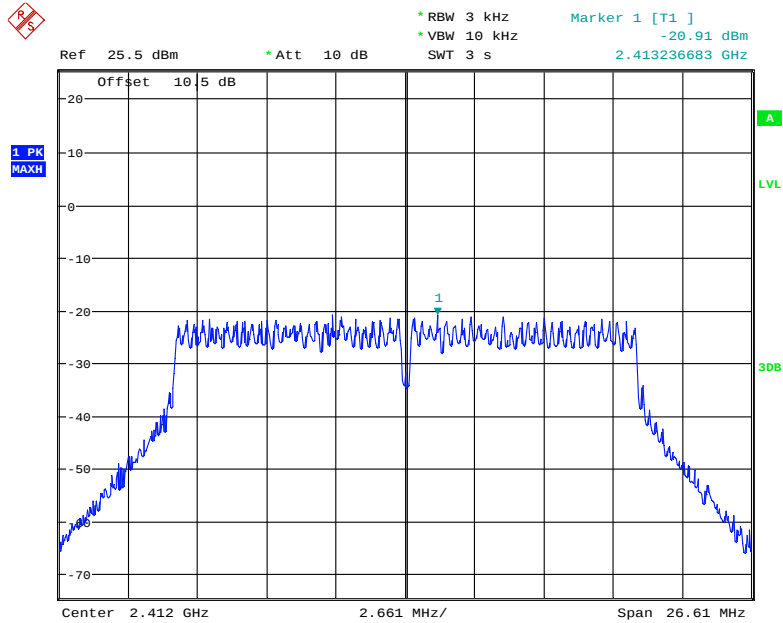
Date: 22.MAR.2018 21:43:47

Power Spectral Density, 802.11g High Channel



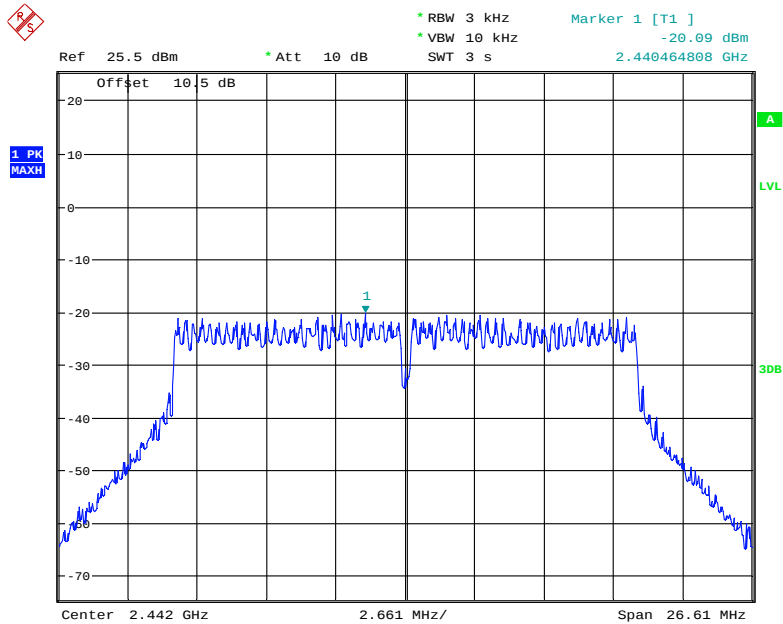
Date: 22.MAR.2018 21:45:50

Power Spectral Density, 802.11n-HT20 Low Channel



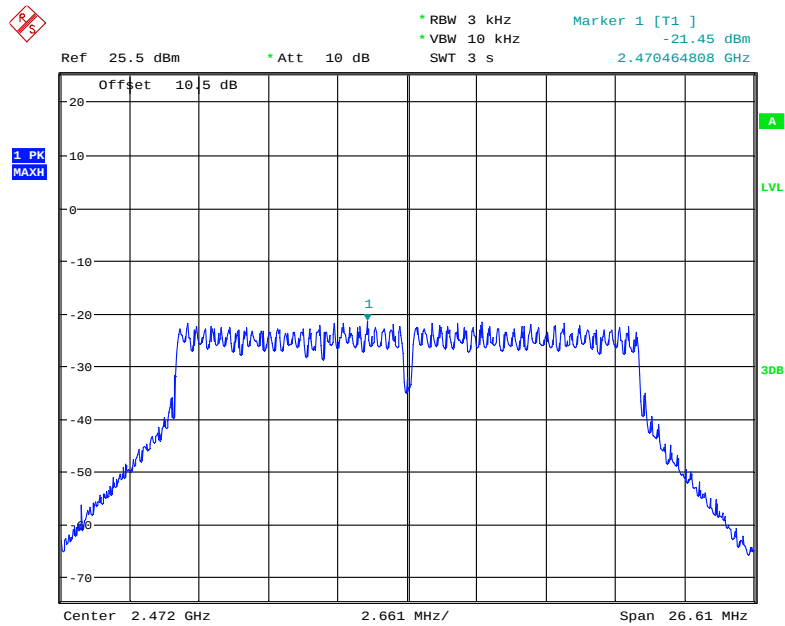
Date: 22.MAR.2018 21:40:42

Power Spectral Density, 802.11n-HT20 Middle Channel



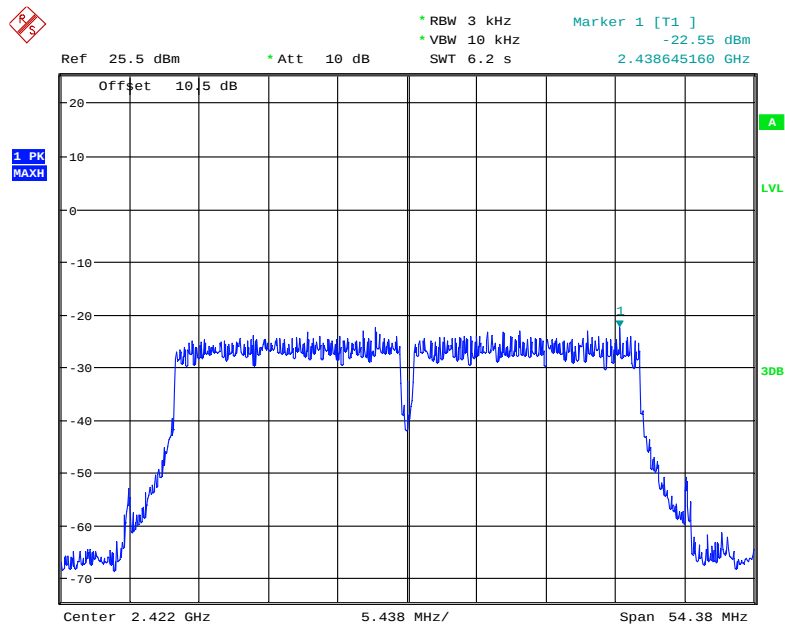
Date: 22.MAR.2018 21:39:58

Power Spectral Density, 802.11n-HT20 High Channel



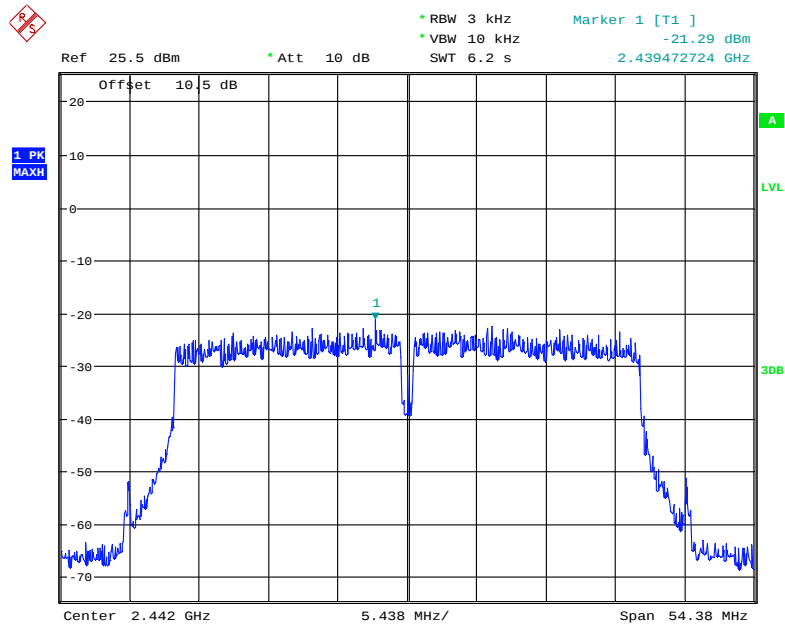
Date: 22.MAR.2018 21:41:40

Power Spectral Density, 802.11n-HT40 Low Channel



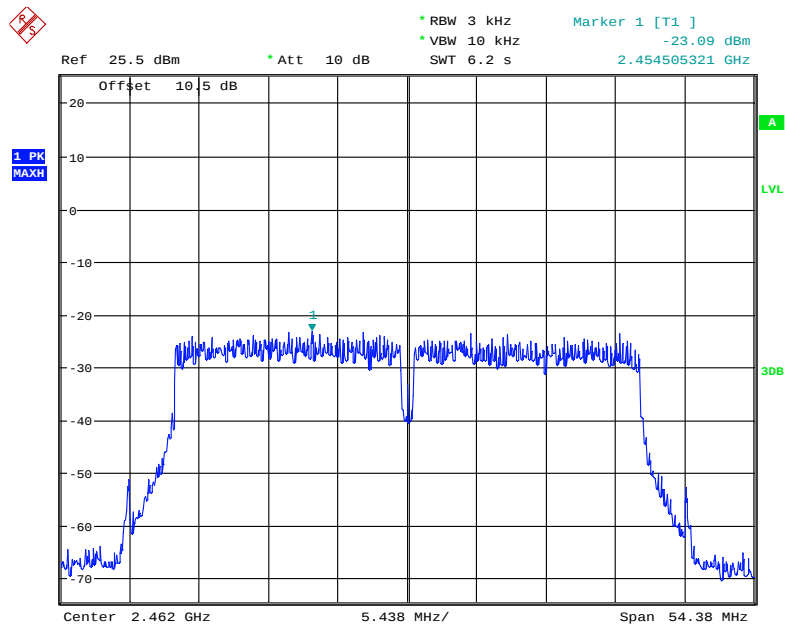
Date: 22.MAR.2018 22:58:26

Power Spectral Density, 802.11n-HT40 Middle Channel



Date: 22.MAR.2018 22:57:45

Power Spectral Density, 802.11n-HT40 High Channel



Date: 22.MAR.2018 22:56:52

Antenna 1:

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b mode			
Low	2412	-17.39	≤ 8
Middle	2442	-16.29	≤ 8
High	2472	-17.30	≤ 8
802.11g mode			
Low	2412	-18.66	≤ 8
Middle	2442	-18.85	≤ 8
High	2472	-20.05	≤ 8
802.11n-HT20 mode			
Low	2412	-18.10	≤ 8
Middle	2442	-18.38	≤ 8
High	2472	-19.05	≤ 8
802.11n-HT40 mode			
Low	2422	-21.79	≤ 8
Middle	2442	-21.21	≤ 8
High	2462	-20.62	≤ 8

Ref 17 dBm * Att 20 dB * RBW 3 kHz * VBW 10 kHz * SWT 1.7 s Marker 1 [T1] -17.39 dBm 2.410990385 GHz

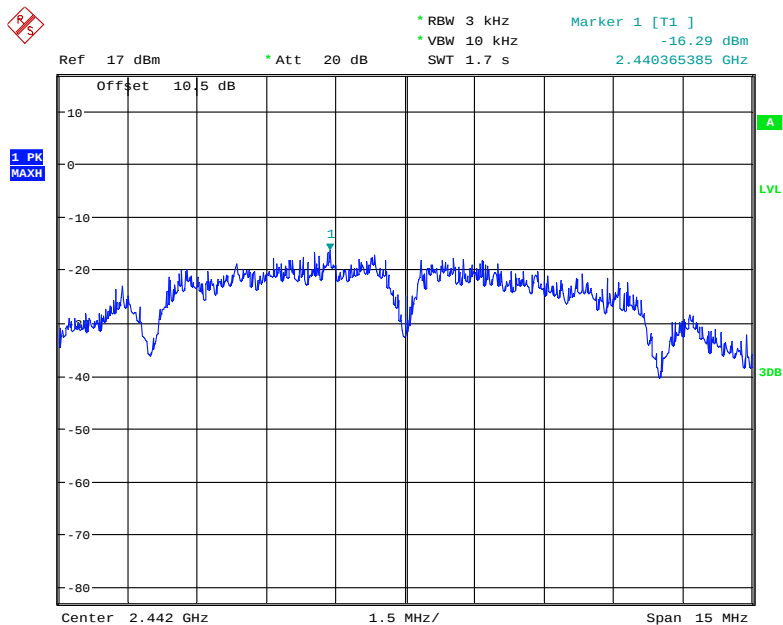
Offset 10.5 dB

1 PK MAXH

1

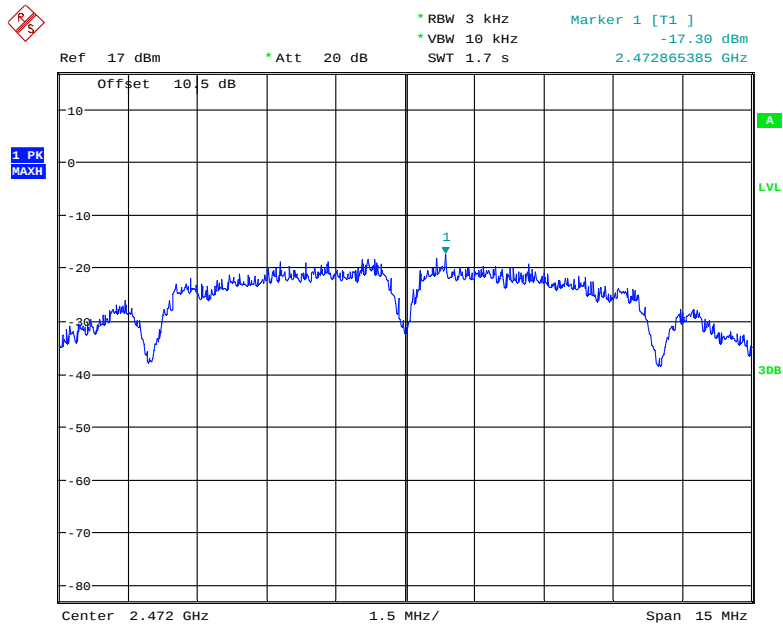
Center 2.412 GHz 1.5 MHz/ Span 15 MHz

Power Spectral Density, 802.11b Middle Channel



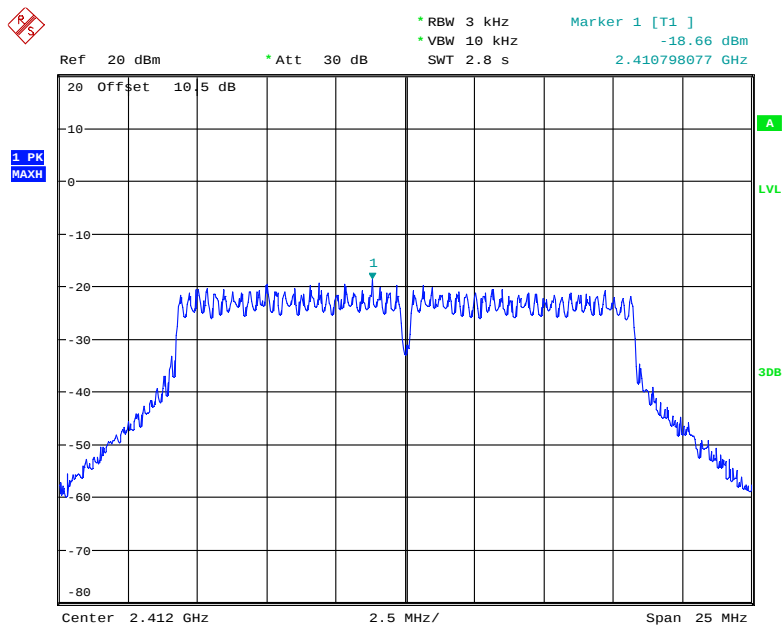
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Power Spectral Density, 802.11b High Channel



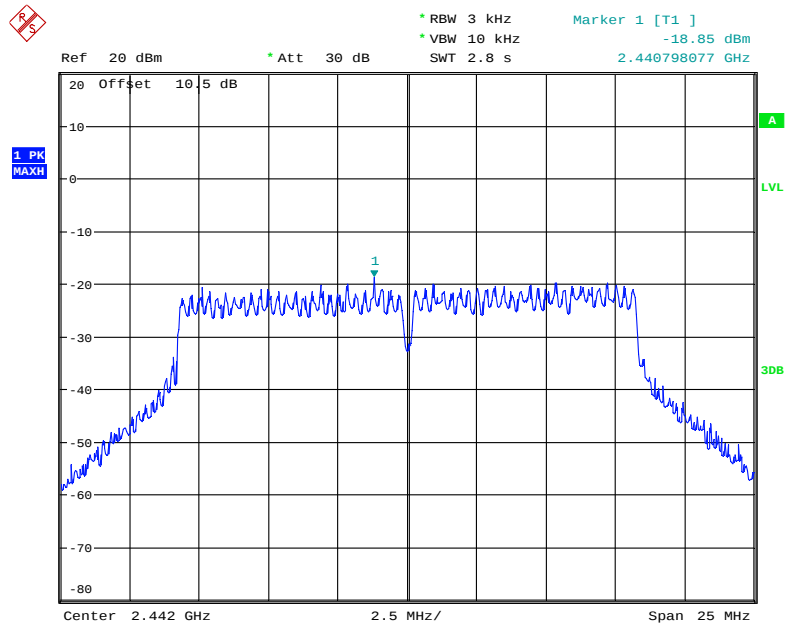
Date: 18.APR.2018 16:32:51

Power Spectral Density, 802.11g Low Channel



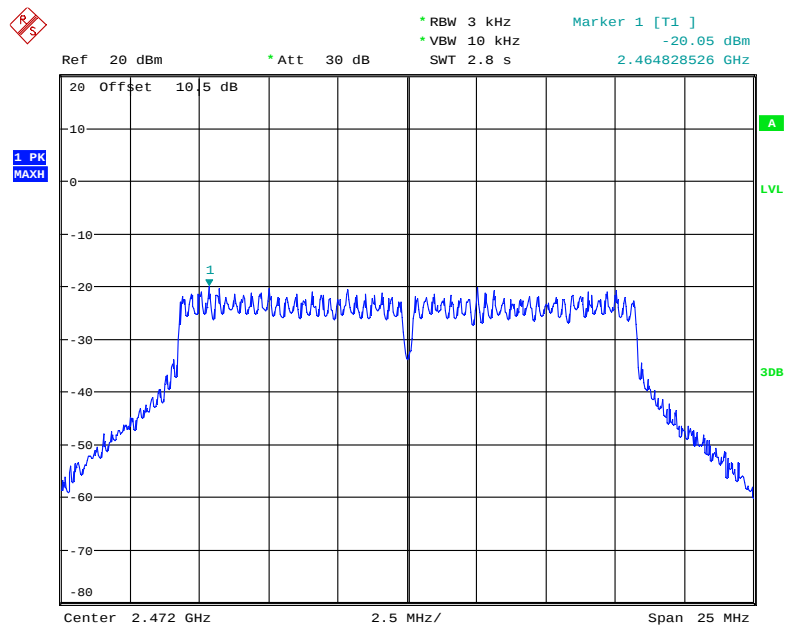
Date: 29.MAR.2018 21:44:07

Power Spectral Density, 802.11g Middle Channel



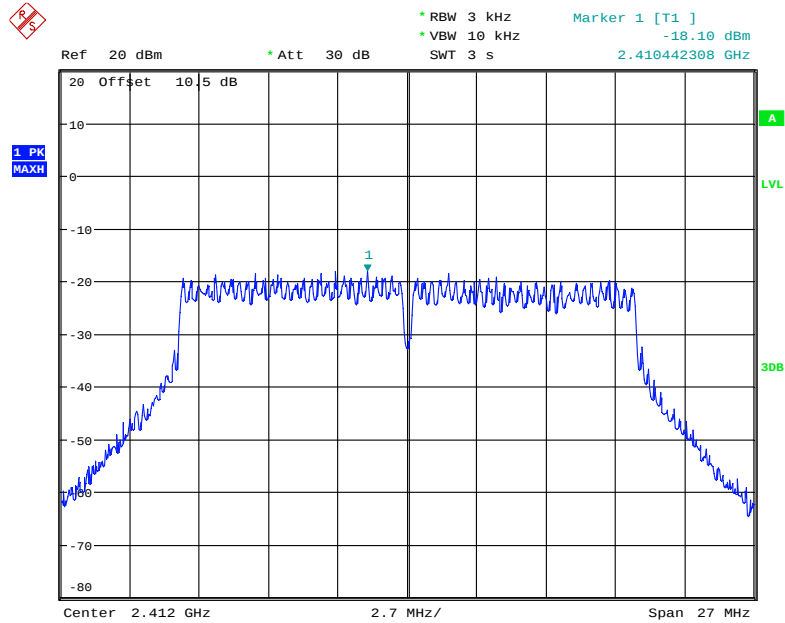
Date: 29.MAR.2018 21:43:35

Power Spectral Density, 802.11g High Channel



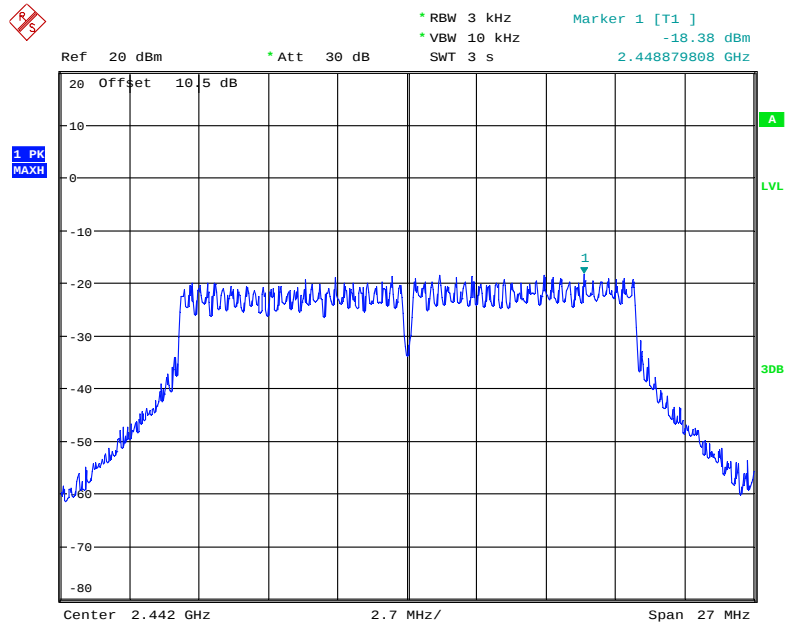
Date: 29.MAR.2018 21:43:00

Power Spectral Density, 802.11n-HT20 Low Channel



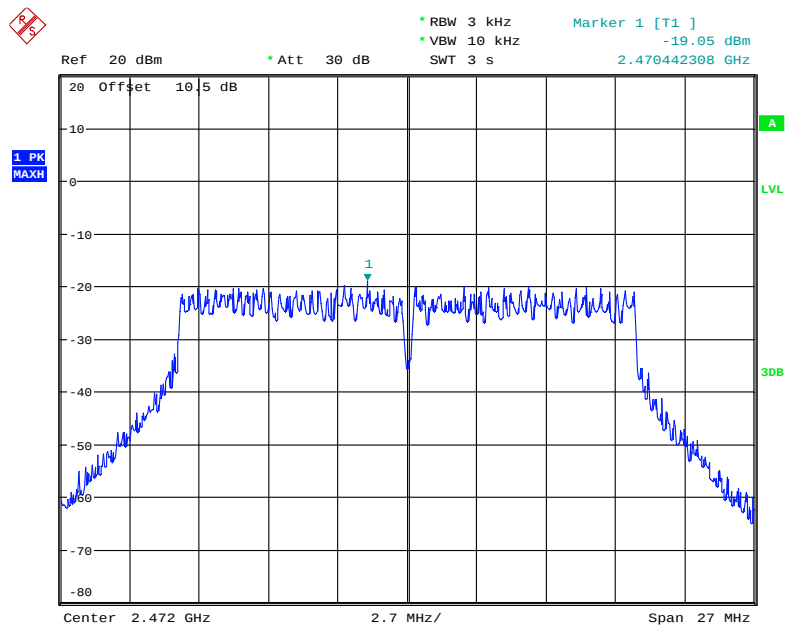
Date: 29.MAR.2018 21:41:17

Power Spectral Density, 802.11n-HT20 Middle Channel



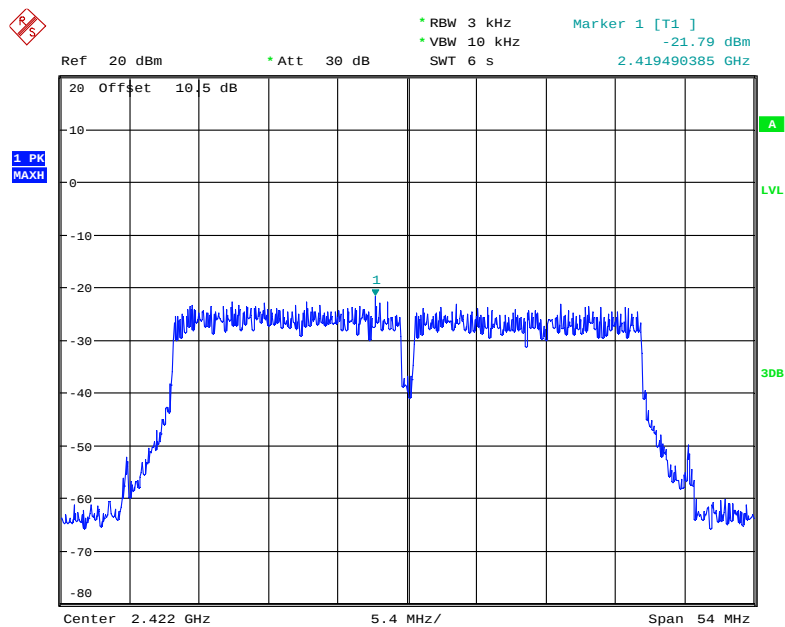
Date: 29.MAR.2018 21:41:49

Power Spectral Density, 802.11n-HT20 High Channel



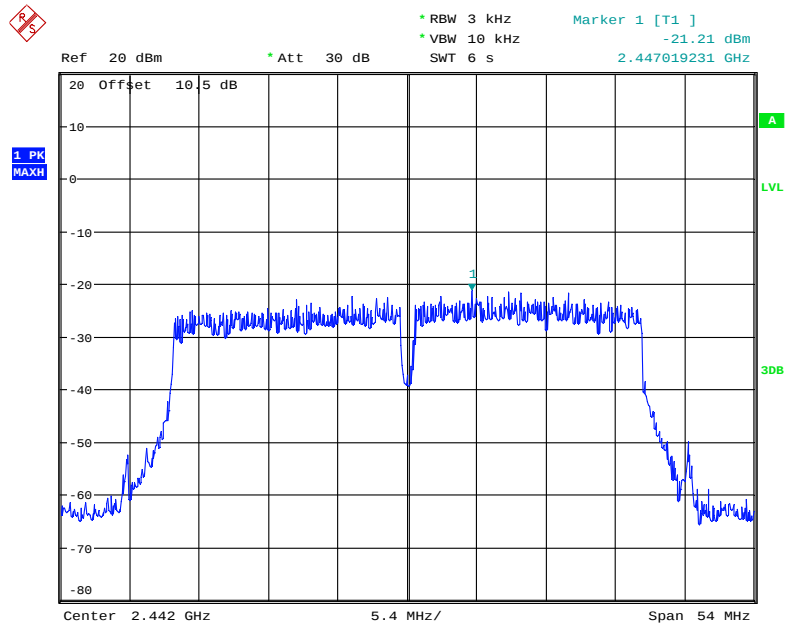
Date: 29.MAR.2018 21:42:11

Power Spectral Density, 802.11n-HT40 Low Channel



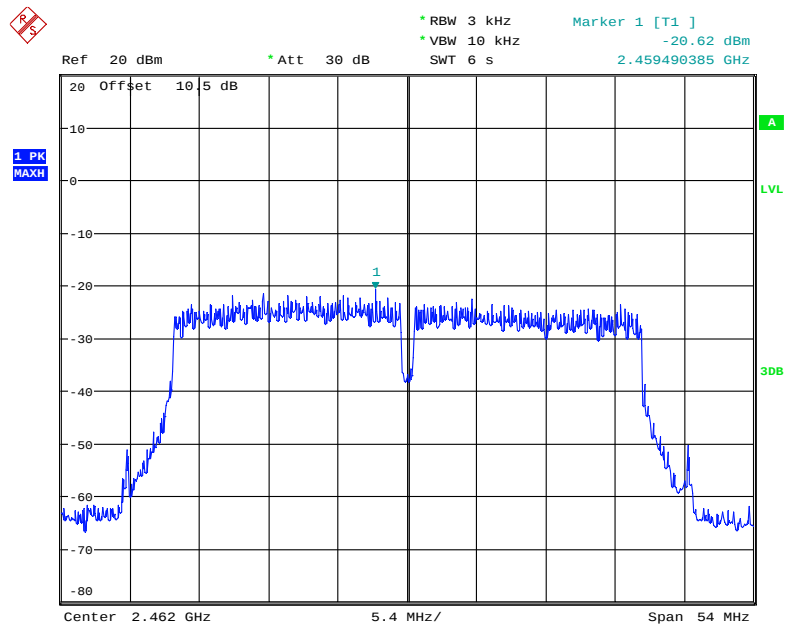
Date: 29.MAR.2018 21:40:13

Power Spectral Density, 802.11n-HT40 Middle Channel



Date: 29.MAR.2018 21:39:38

Power Spectral Density, 802.11n-HT40 High Channel



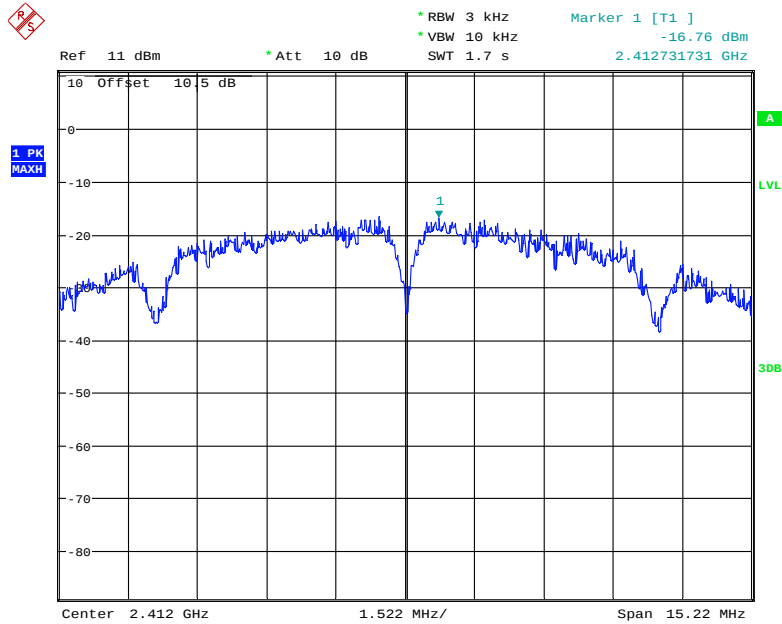
Date: 29.MAR.2018 21:39:00

Antenna 0 & 1 transmitting(MIMO mode):

Channel	Frequency (MHz)	Antennas	PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm)
802.11b					
Low	2412	ANT 0	-16.76	-14.12	≤8
		ANT 1	-17.54		
Middle	2442	ANT 0	-14.67	-12.66	≤8
		ANT 1	-16.97		
High	2472	ANT 0	-15.53	-12.54	≤8
		ANT 1	-15.57		
802.11g					
Low	2412	ANT 0	-20.44	-17.58	≤8
		ANT 1	-20.74		
Middle	2442	ANT 0	-19.68	-17.50	≤8
		ANT 1	-21.53		
High	2472	ANT 0	-20.45	-17.68	≤8
		ANT 1	-20.95		
802.11n20					
Low	2412	ANT 0	-19.62	-16.00	≤8
		ANT 1	-18.48		
Middle	2442	ANT 0	-18.06	-15.08	≤8
		ANT 1	-18.12		
High	2472	ANT 0	-19.23	-16.19	≤8
		ANT 1	-19.17		
802.11n40					
Low	2422	ANT 0	-22.81	-19.04	≤8
		ANT 1	-21.40		
Middle	2442	ANT 0	-20.69	-17.70	≤8
		ANT 1	-20.74		
High	2462	ANT 0	-21.01	-18.11	≤8
		ANT 1	-21.24		

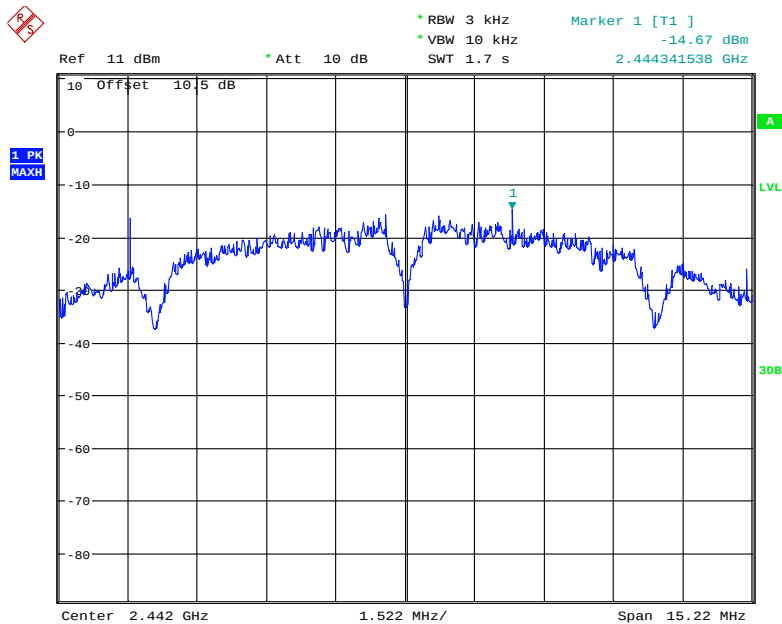
Antenna 0

Power Spectral Density, 802.11b Low Channel



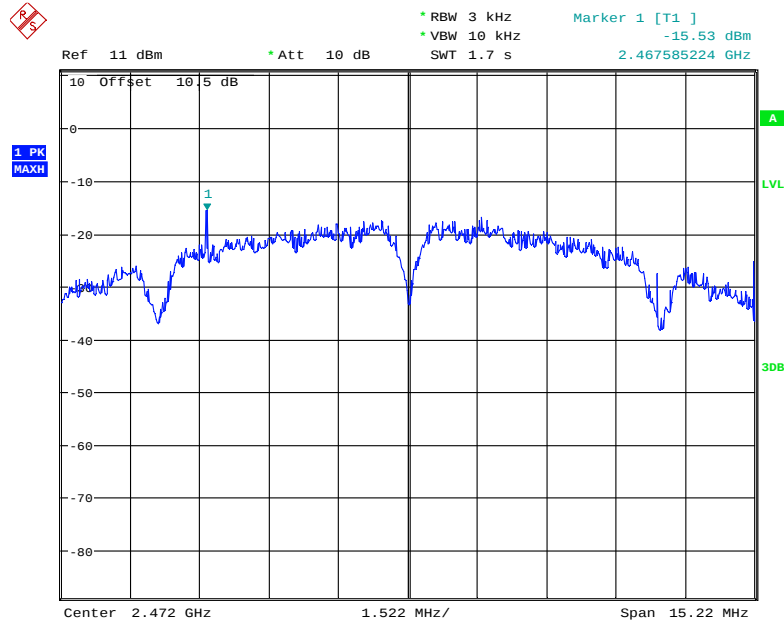
Date: 20.APR.2018 15:12:59

Power Spectral Density, 802.11b Middle Channel



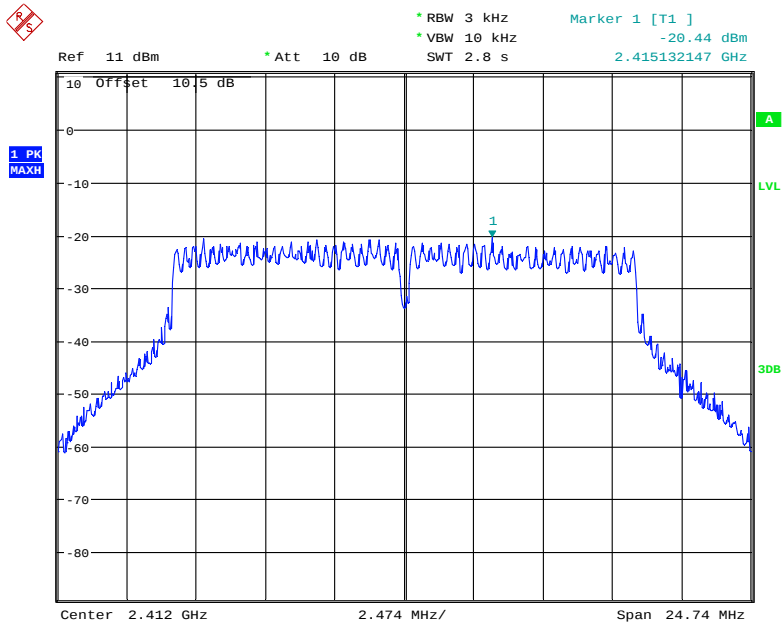
Date: 20.APR.2018 15:14:20

Power Spectral Density, 802.11b High Channel



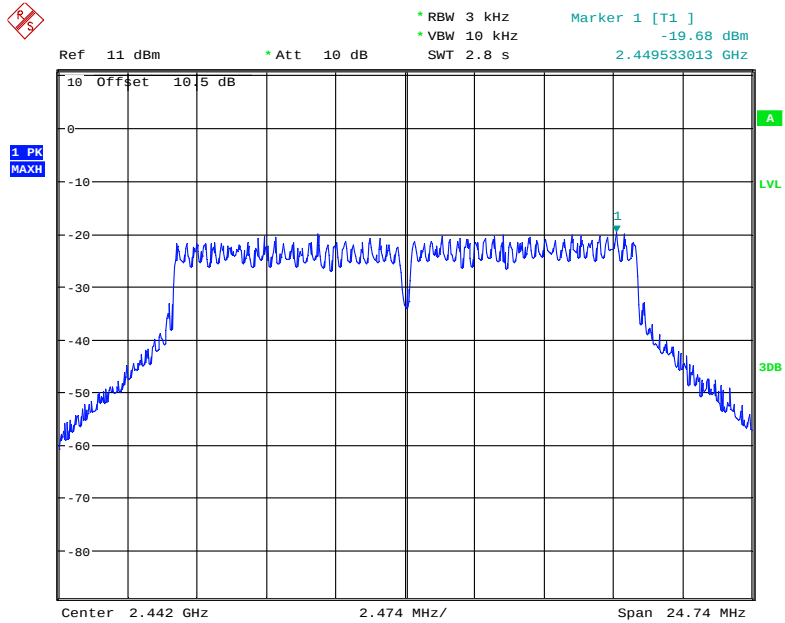
Date: 20.APR.2018 15:15:22

Power Spectral Density, 802.11g Low Channel



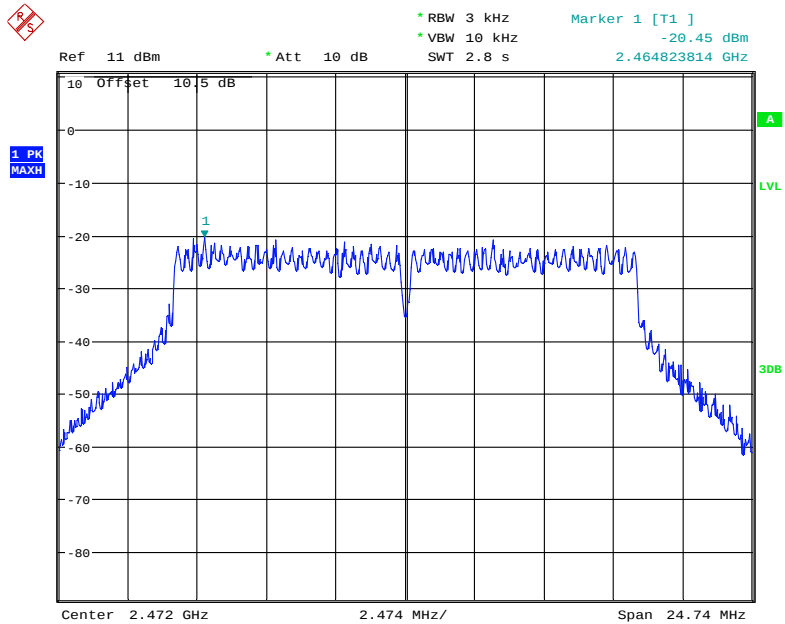
Date: 20.APR.2018 15:16:23

Power Spectral Density, 802.11g Middle Channel



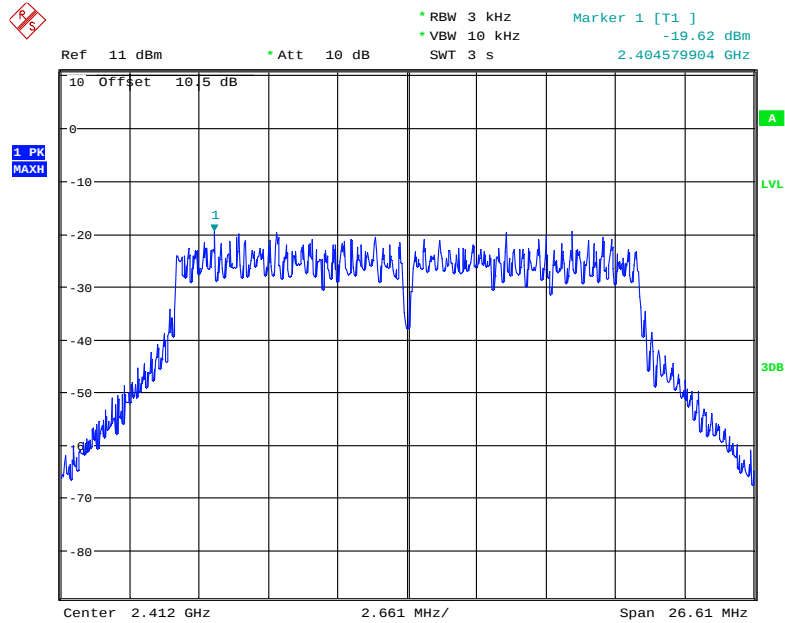
Date: 20.APR.2018 15:18:04

Power Spectral Density, 802.11g High Channel



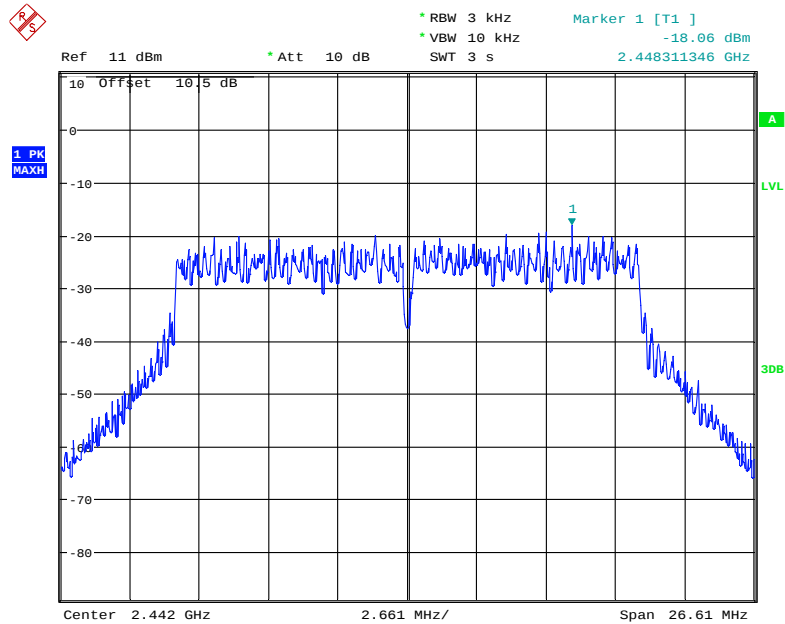
Date: 20.APR.2018 15:19:06

Power Spectral Density, 802.11n-HT20 Low Channel



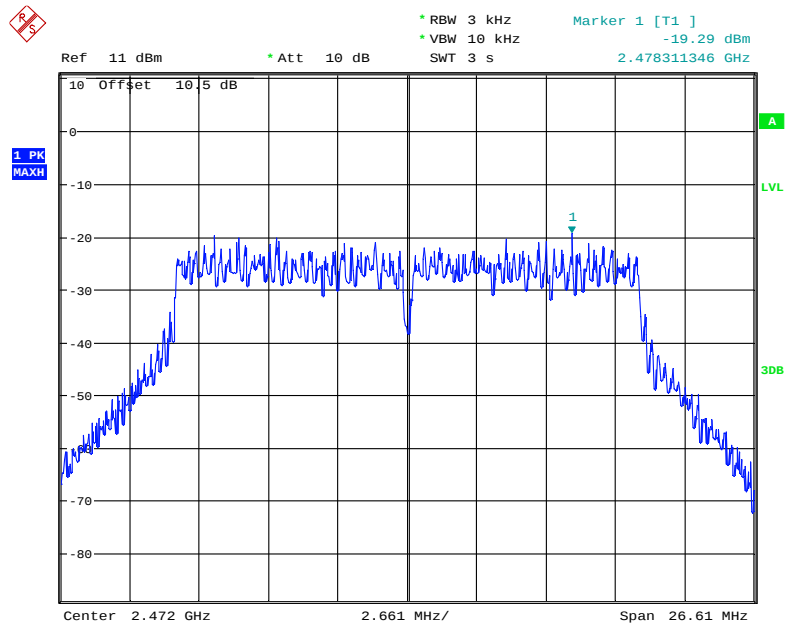
Date: 20.APR.2018 15:20:34

Power Spectral Density, 802.11n-HT20 Middle Channel



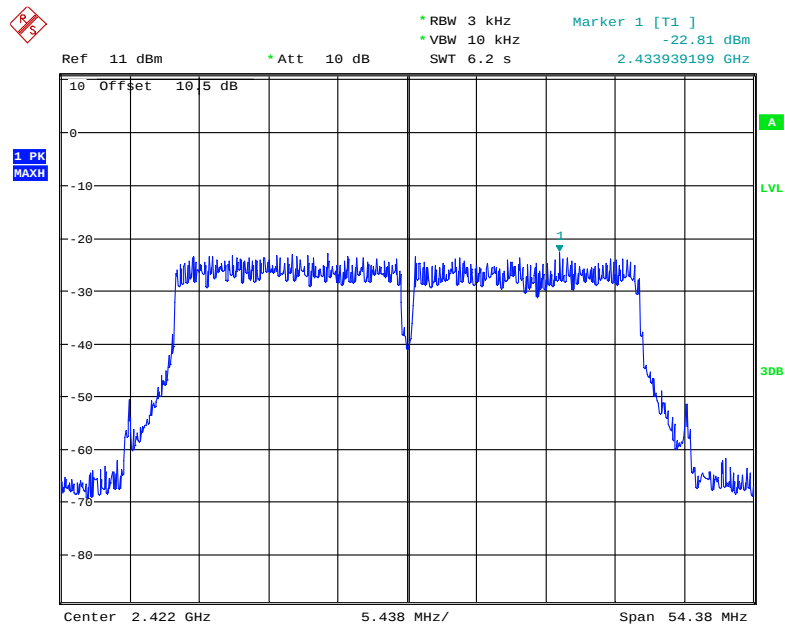
Date: 20.APR.2018 15:22:15

Power Spectral Density, 802.11n-HT20 High Channel



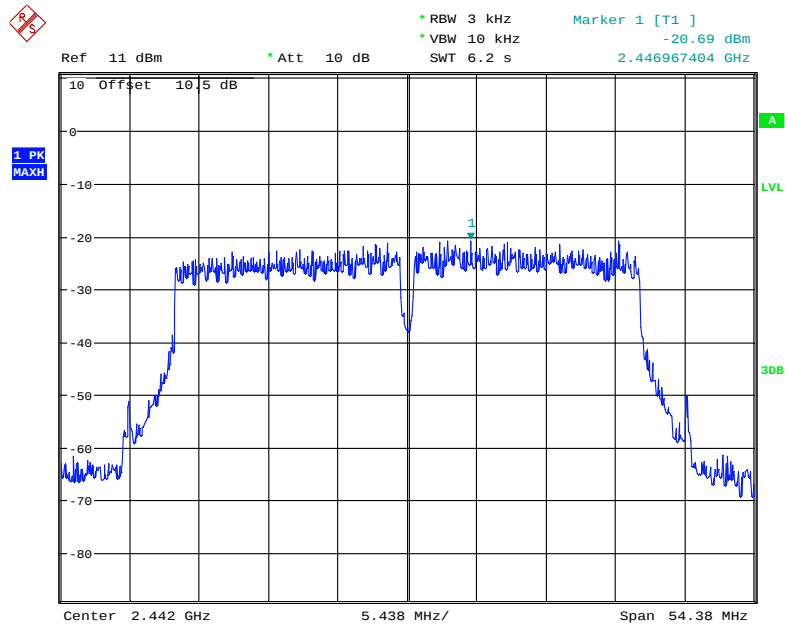
Date: 20.APR.2018 15:23:07

Power Spectral Density, 802.11n-HT40 Low Channel



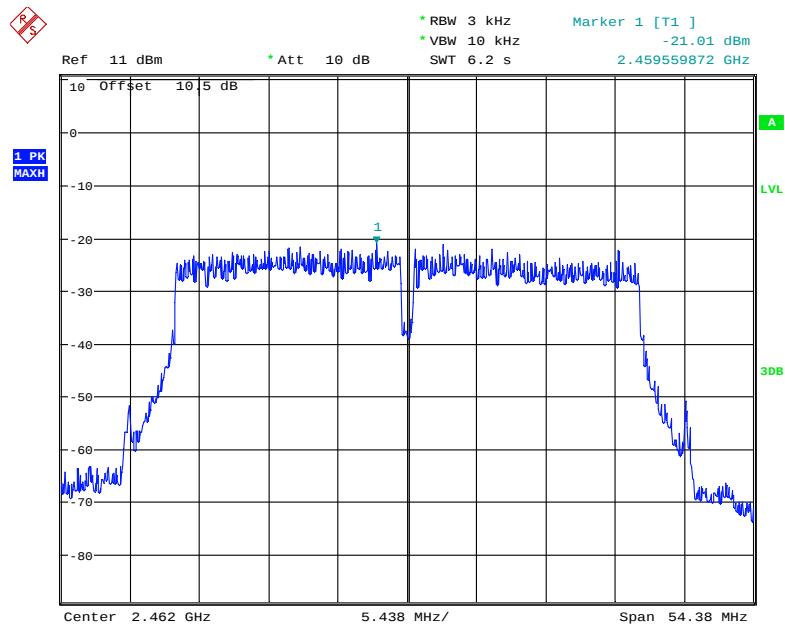
Date: 20.APR.2018 15:24:08

Power Spectral Density, 802.11n-HT40 Middle Channel



Date: 20.APR.2018 15:24:51

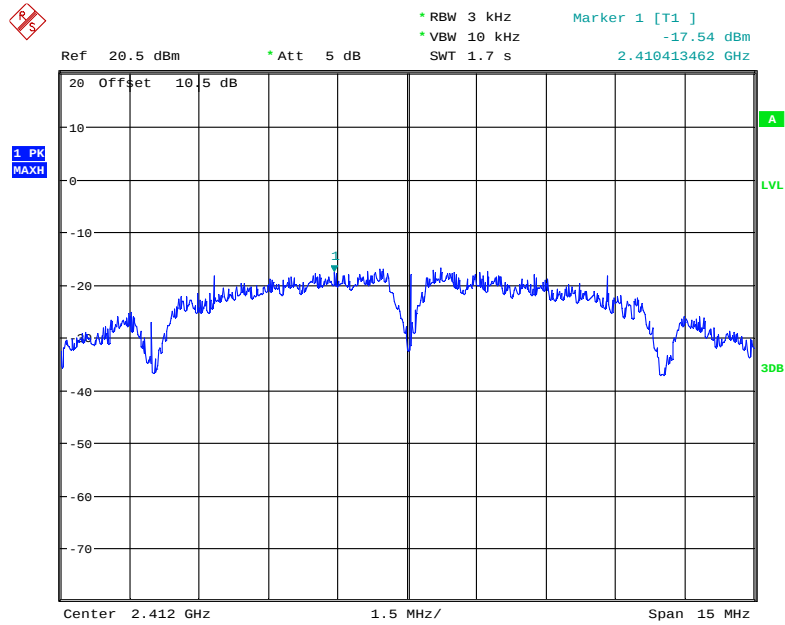
Power Spectral Density, 802.11n-HT40 High Channel



Date: 20.APR.2018 15:25:39

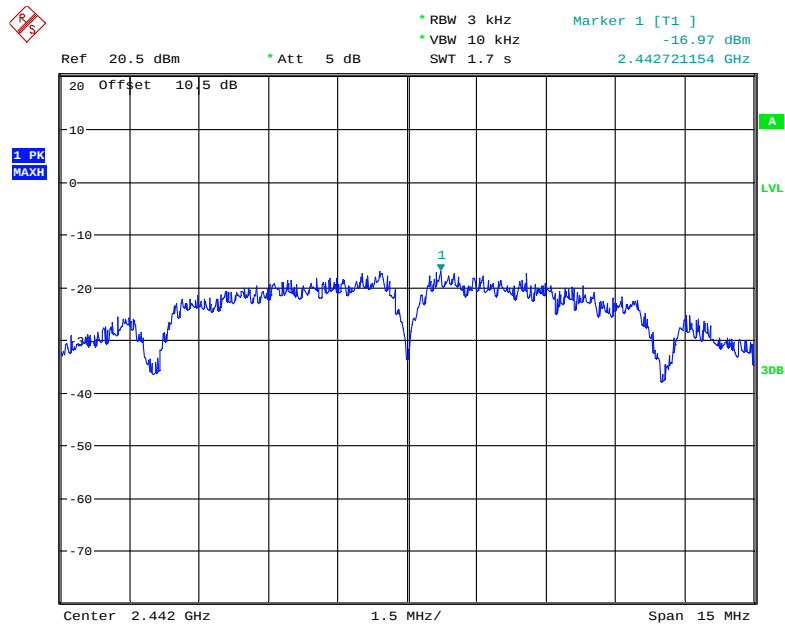
Antenna 1

Power Spectral Density, 802.11b Low Channel



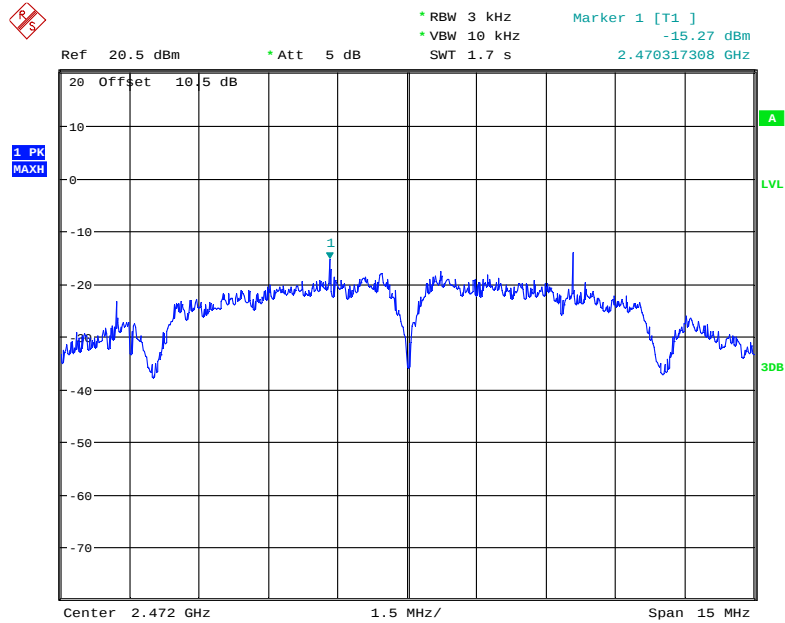
Date: 20.APR.2018 18:23:17

Power Spectral Density, 802.11b Middle Channel



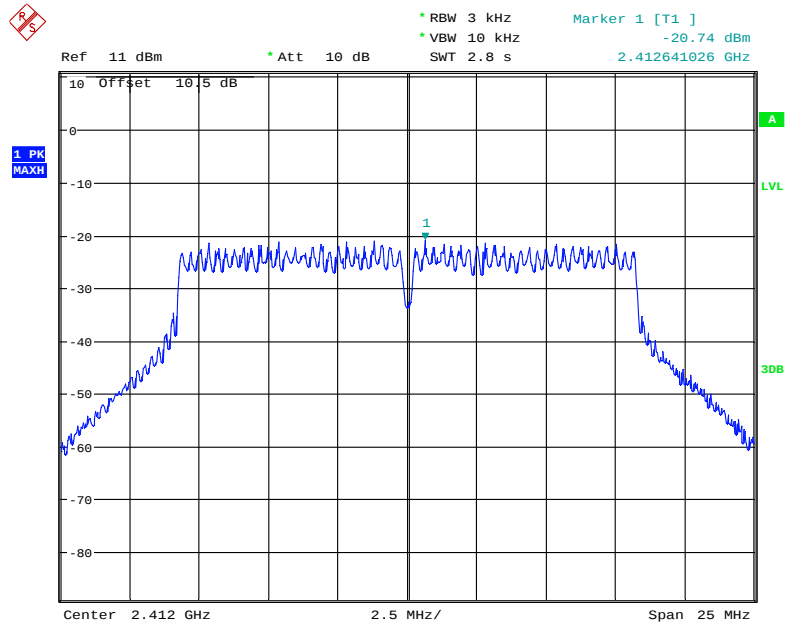
Date: 20.APR.2018 18:26:57

Power Spectral Density, 802.11b High Channel



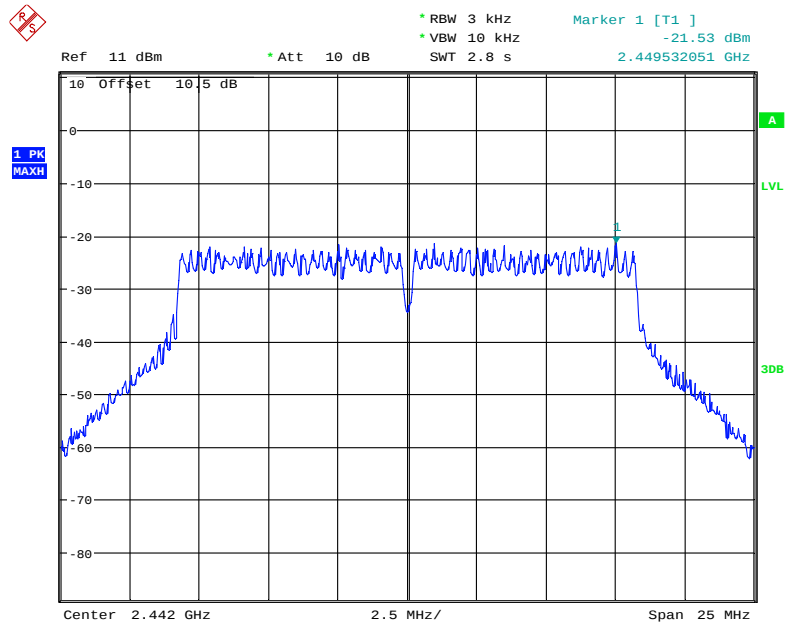
Date: 20.APR.2018 18:32:05

Power Spectral Density, 802.11g Low Channel



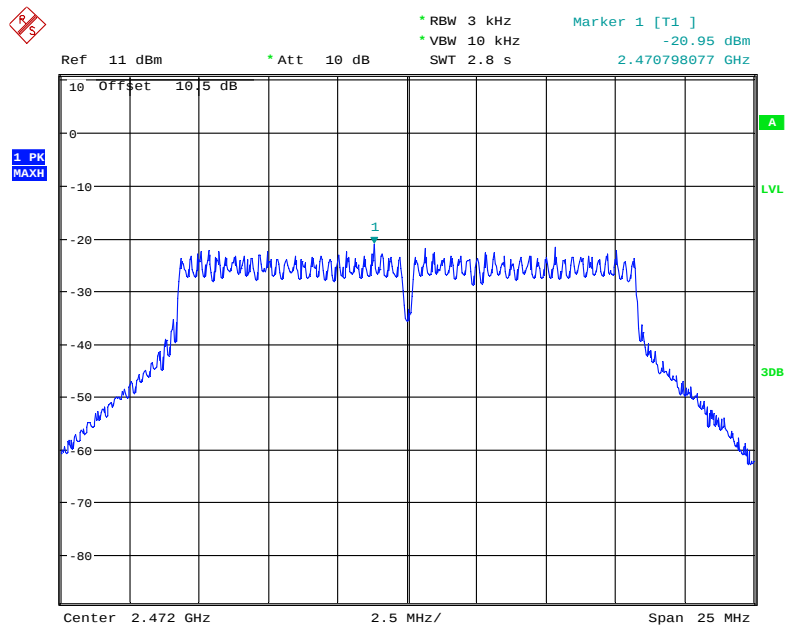
Date: 20.APR.2018 15:47:59

Power Spectral Density, 802.11g Middle Channel



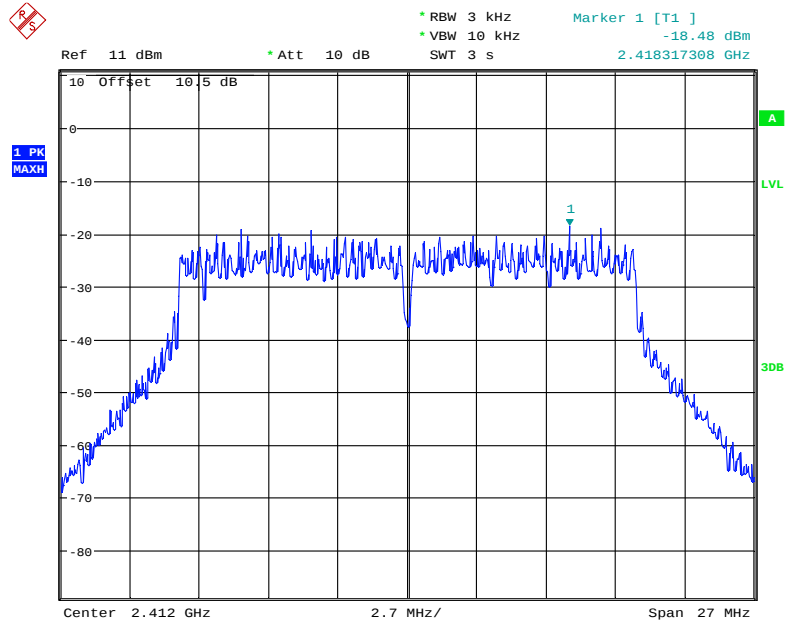
Date: 20.APR.2018 15:48:29

Power Spectral Density, 802.11g High Channel



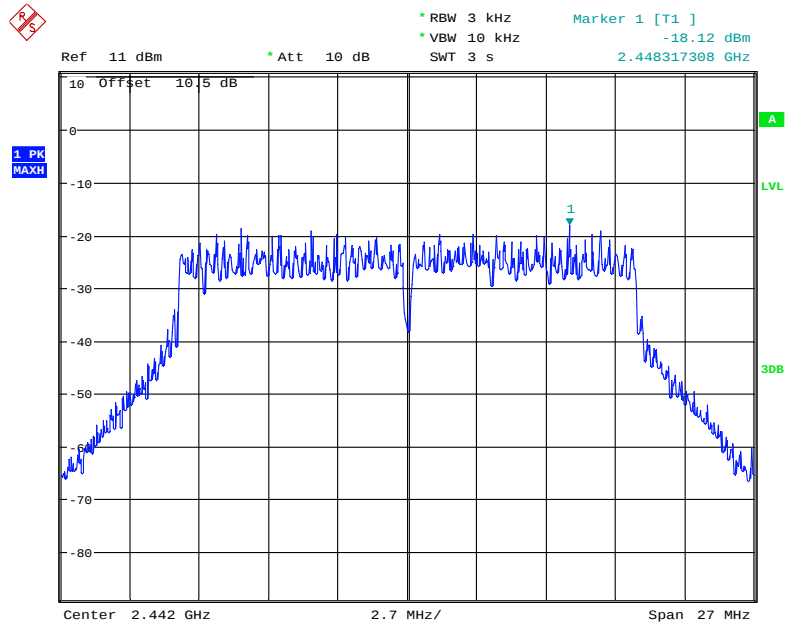
Date: 20.APR.2018 15:49:44

Power Spectral Density, 802.11n-HT20 Low Channel



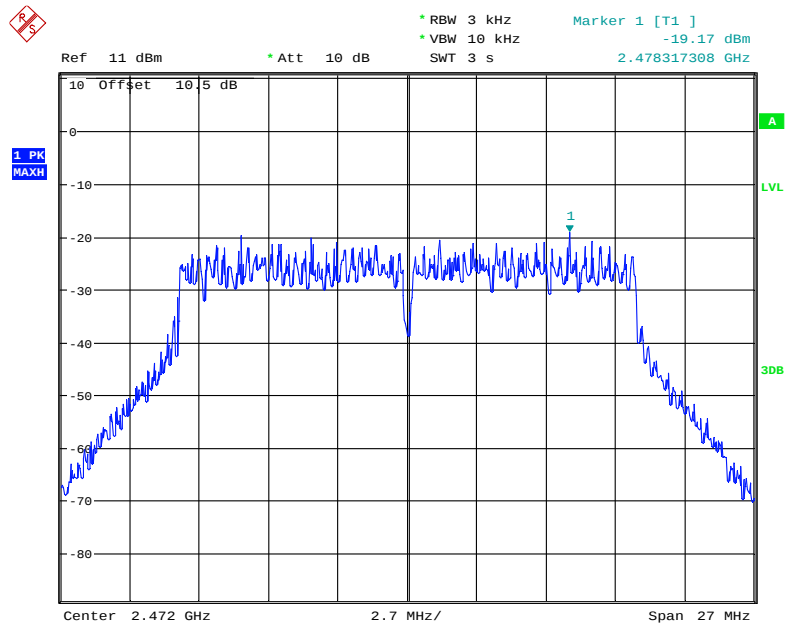
Date: 20.APR.2018 15:50:24

Power Spectral Density, 802.11n-HT20 Middle Channel



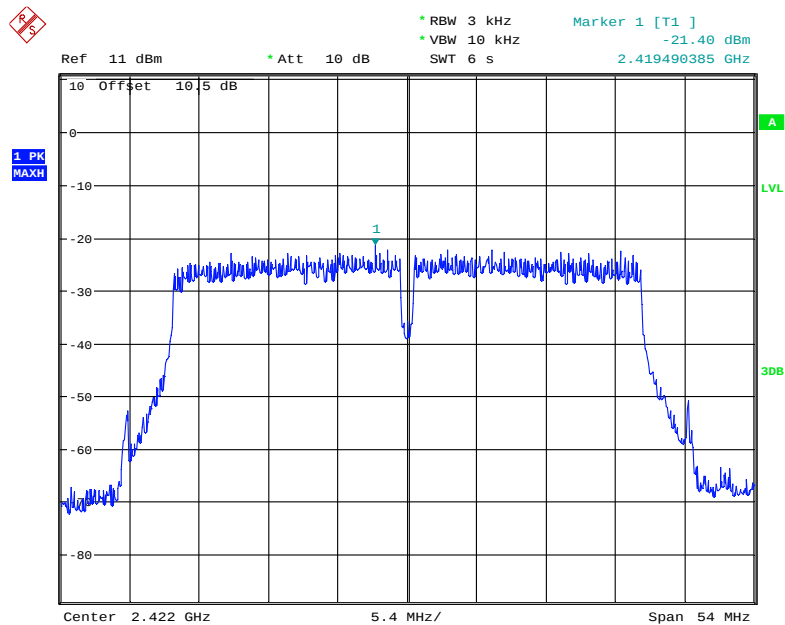
Date: 20.APR.2018 15:51:00

Power Spectral Density, 802.11n-HT20 High Channel



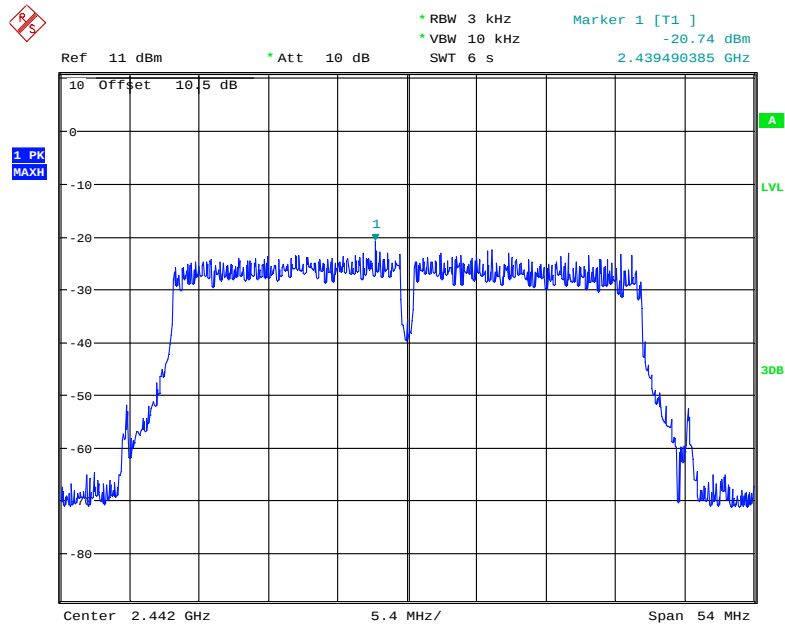
Date: 20.APR.2018 15:51:27

Power Spectral Density, 802.11n-HT40 Low Channel



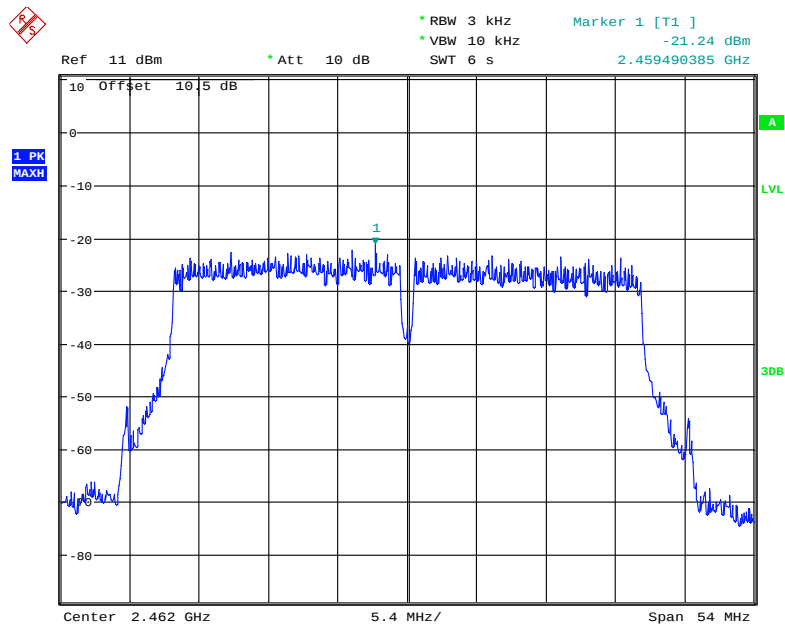
Date: 20.APR.2018 15:52:36

Power Spectral Density, 802.11n-HT40 Middle Channel



Date: 20.APR.2018 15:53:05

Power Spectral Density, 802.11n-HT40 High Channel



Date: 20.APR.2018 15:53:46

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