



TESTING LABORATORY
CERTIFICATE#4323.01



FCC PART 15.247

TEST REPORT

For

Changzhou Shincobroad Electronics Co.,Ltd

No.8 West Taihu Road, Xinbei District, Changzhou, China 213022

FCC ID: 2AOP9-50SVL01

Report Type: Original Report	Product Type: 50" 4K ULTRA HD TV
Test Engineer: Max Min	<i>Max Min</i>
Report Number: RKSA180226001-00A	
Report Date: 2018-03-09	
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FINAL

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	Changzhou Shincobroad Electronics Co.,Ltd
Tested Model	50SVL01
Product Type	50" 4K ULTRA HD TV
Dimension	44.6" (W) x 26.2" (H) x 3.7" (D)
Power Supply	AC 100-240V

**All measurement and test data in this report was gathered from production sample serial number: 20180226001 (Assigned by the BACL. The EUT supplied by the applicant was received on 2018-02-26)*

Objective

This report is prepared on behalf of Changzhou Shincobroad Electronics Co., Ltd in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions 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)

No related Submittal(s)/Grant(s)

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 FCC KDB558074 D01 DTS Meas Guidance v04.

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

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0°C
Humidity		6%

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road,Kunshan,Jiangsu province,China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01) and the FCC designation No. CN1185 under the FCC KDB 974614 D01. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Channel list for 802.11b, 802.11g and 802.11n-HT20 mode:

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

EUT was tested with Channel 1, 6 and 11.

Channel list for 802.11n-HT40 mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	8	2447
4	2427	9	2452
5	2432	/	/
6	2437	/	/
7	2442	/	/

EUT was tested with Channel 3, 6 and 9.

For Conducted Test:

802.11b & 802.11g&802.11n: each transmit chains were tested

For Radiated Test:

802.11b & 802.11g, SISO for each transmit chain

For 802.11n: MIMO for two transmit chains

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

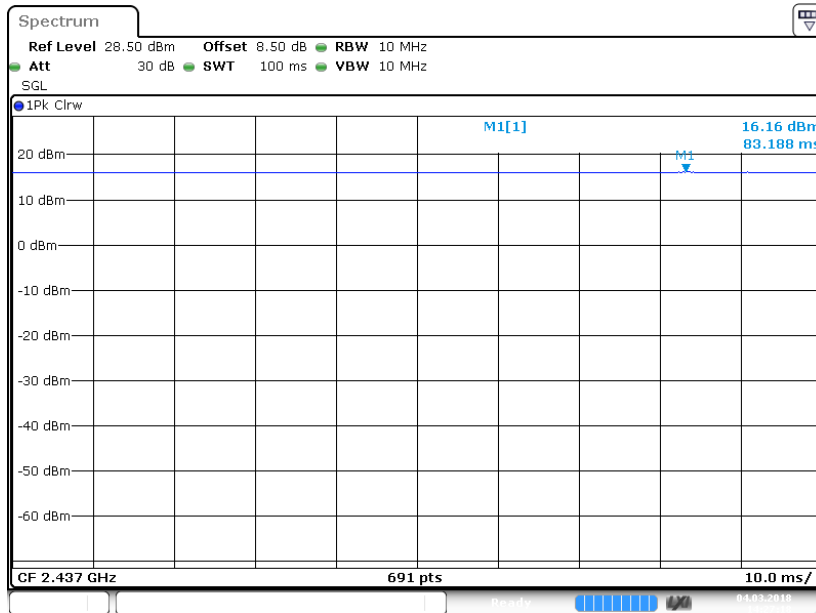
RF test tool: Secure CRT

Pre-scan with all the data rates, and the worst case was performed as below:

Mode	Data rate	Power level
802.11b	1 Mbps	12
802.11g	6 Mbps	12
802.11n-HT20	MCS0	12
802.11n-HT40	MCS0	7

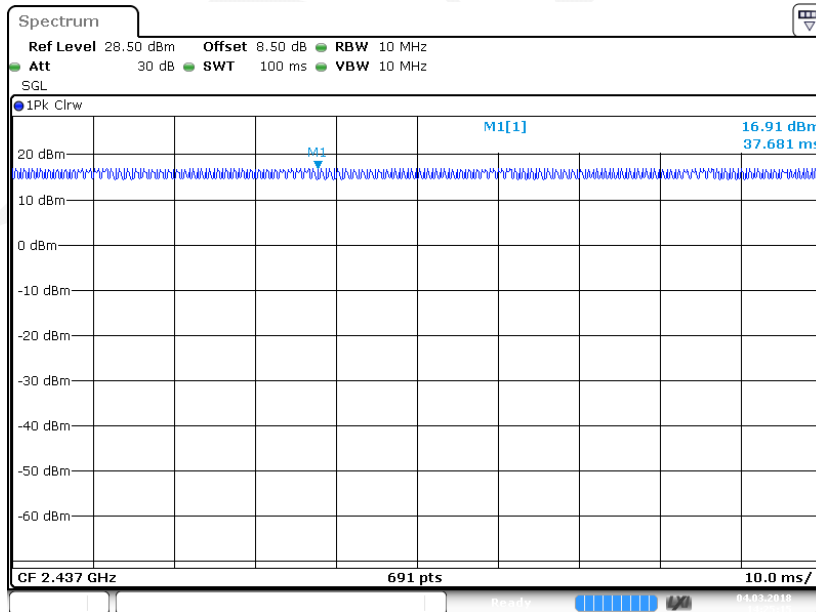
Duty Cycle:

802.11b Mode Middle Channel



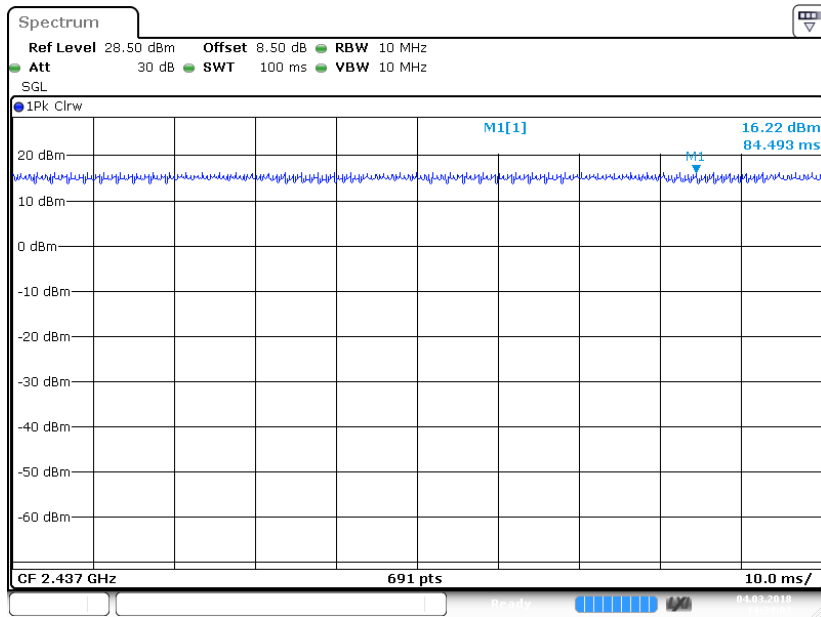
Date: 4 MAR 2018 14:27:18

802.11g Mode Middle Channel



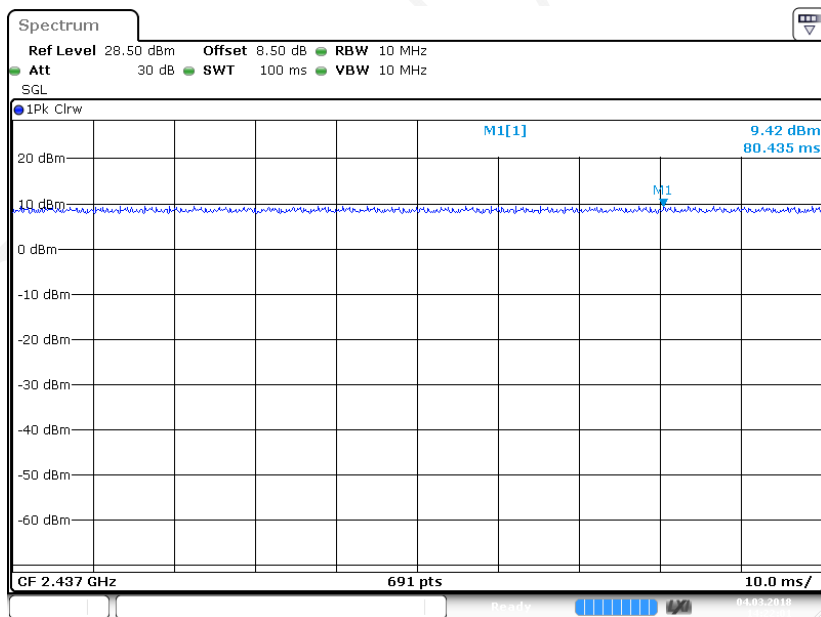
Date: 4 MAR 2018 14:25:15

802.11n-HT20 Mode Middle Channel



Date: 4 MAR 2018 14:24:03

802.11n-HT40 Mode Middle Channel



Date: 4 MAR 2018 14:22:02

Mode	Duty Cycle	T(ms)	1/T(kHz)	10log(1/x)
802.11b	100.00%	/	/	0.00
802.11g	100.00%	/	/	0.00
802.11n-HT20	100.00%	/	/	0.00
802.11n-HT40	100.00%	/	/	0.00

Note: “x” means the Duty Cycle.

Support Equipment List and Details

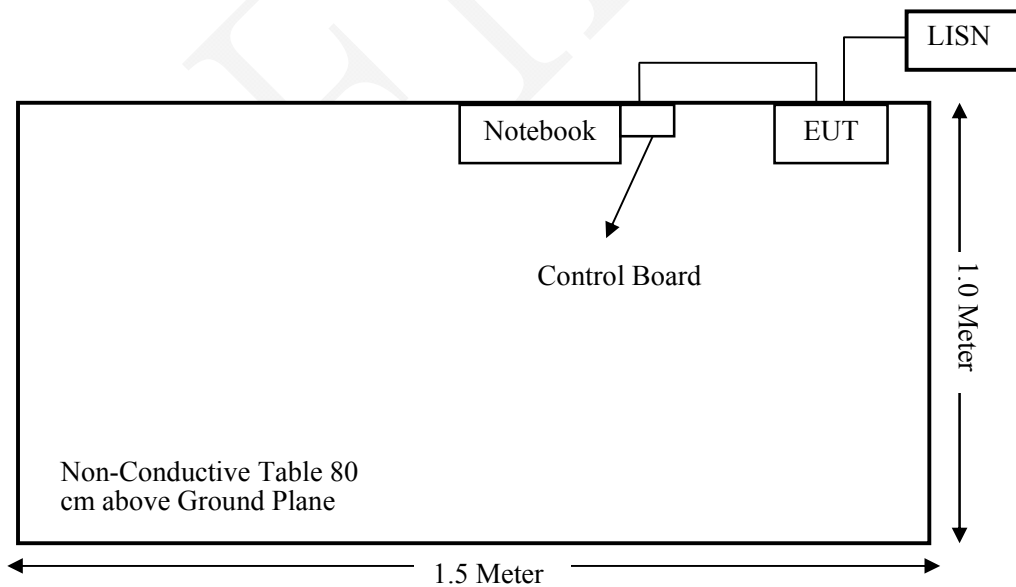
Manufacturer	Description	Model	Serial Number
DELL	Notebook	GX620	D65874152
DELL	Adapter	LA65NS0-00	DF263
Shincobroad	Control Board	/	/

External I/O Cable

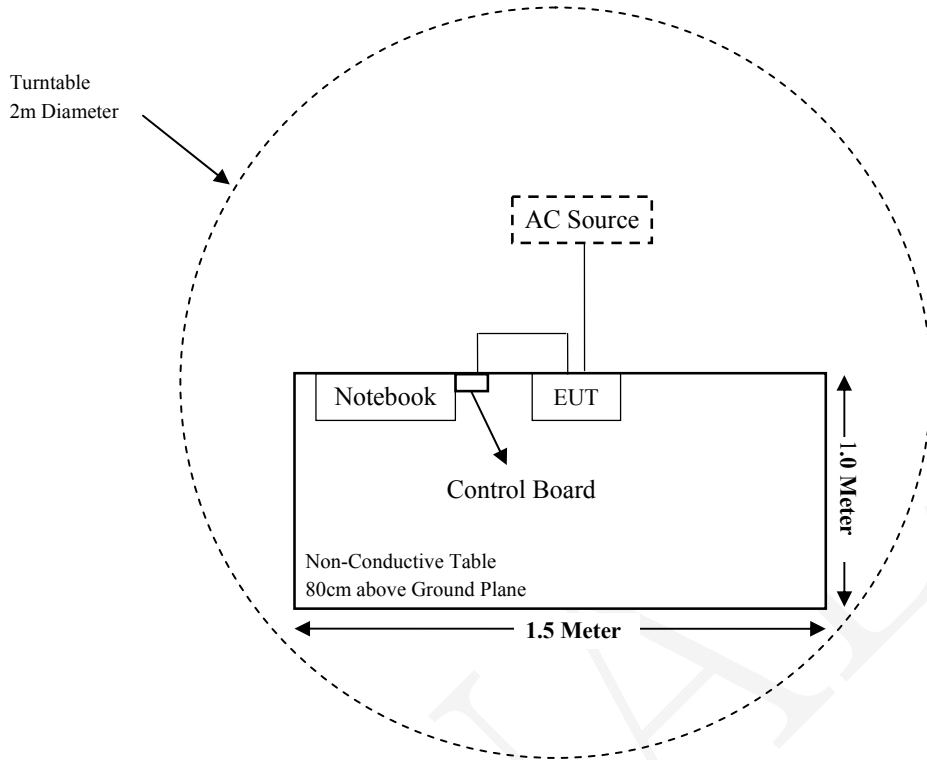
Cable Description	Length (m)	From Port	To
VGA Cable	0.8	EUT	Control Board

Block Diagram of Test Setup

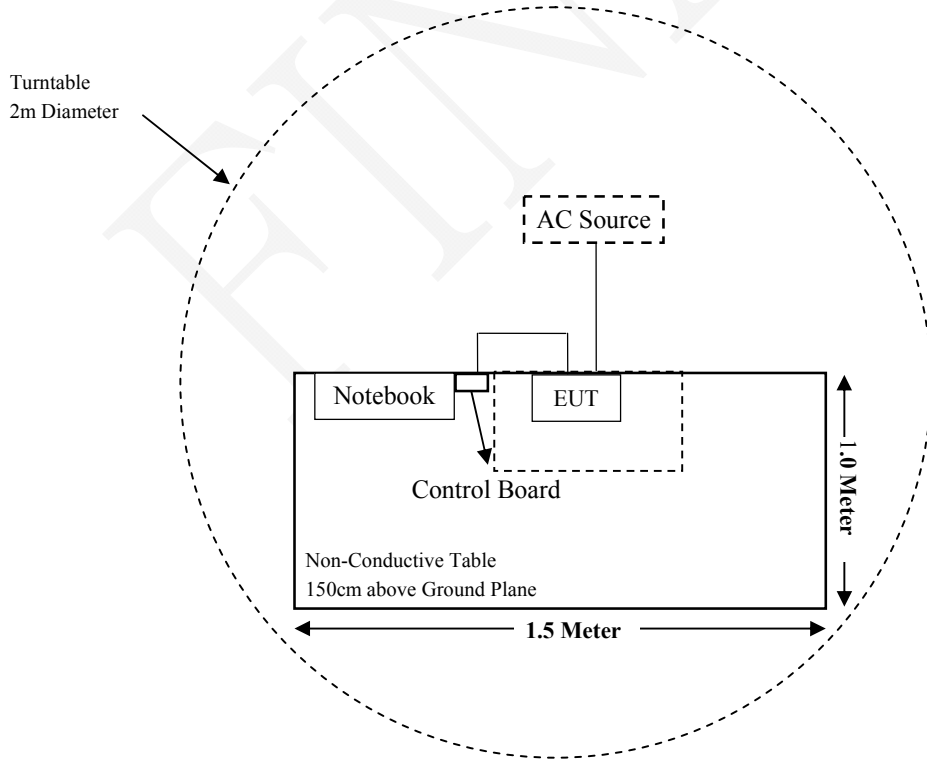
For Conducted Emissions:



For Radiated Emissions(Below 1GHz):



For Radiated Emissions(Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247(d)	Spurious Emissions at Antenna Port	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
Radiated Emission Test (Chamber 1#)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2017-11-12	2018-11-11
Sunol Sciences	Broadband Antenna	JB3	A090413-1	2016-12-26	2019-12-25
Sonoma Instrument	Pre-amplifier	310N	171205	2017-08-15	2018-08-14
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-8	008	2017-08-15	2018-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2017-08-15	2018-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2017-08-15	2018-08-14
Radiated Emission Test (Chamber 2#)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207	2017-08-27	2018-08-26
ETS-LINDGREN	Horn Antenna	3115	6229	2016-01-11	2019-01-10
ETS-LINDGREN	Horn Antenna	3116	00084159	2016-10-18	2019-10-17
SINOSCITE	Band Reject Filter	BSF2400-2483MN-0995	/	2017-08-05	2018-08-04
Narda	Pre-amplifier	AFS42-00101800	2001270	2017-12-12	2018-12-11
Heatsink Required	Amplifier	QLW-18405536-J0	15964001009	2017-12-12	2018-12-11
Narda	Attenuator/10dB	10dB	/	2017-12-12	2018-12-11
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-6	006	2017-08-15	2018-08-14
MICRO-COAX	Coaxial Cable	Cable-11	011	2017-08-15	2018-08-14
MICRO-COAX	Coaxial Cable	Cable-12	012	2017-08-15	2018-08-14
MICRO-COAX	Coaxial Cable	Cable-13	013	2017-08-15	2018-08-14
RF Conducted Test					
Rohde & Schwarz	FSV40 Signal Analyzer	FSV40	101116	2017-07-22	2018-07-21
Narda	Attenuator/6dB	6dB	/	2017-12-12	2018-12-11
Agilent	Power Meter	N1912A	MY5000492	2017-11-18	2018-11-17
Agilent	Power Sensor	N1921A	MY54210024	2017-11-18	2018-11-17
Shincobroad	RF Cable	/	/	/	/
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCS30	834115/007	2017-11-12	2018-11-11
Rohde & Schwarz	LISN	ESH3-Z5	862770/011	2017-11-12	2018-11-11
BACL	Auto test Software	BACL-EMC	CE001	/	/
Narda	Attenuator/6dB	10690812-2	26850-6	2018-01-10	2019-01-09
MICRO-COAX	Coaxial Cable	Cable-15	015	2017-08-15	2018-08-14

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

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

Applicable Standard

According to §2.1091 and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission’s guideline.

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

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

f = frequency in MHz; * = Plane-wave equivalent power density;

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

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

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

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

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

Calculated Data:

Mode	Frequency (MHz)	Antenna Gain		Tune-up Conducted Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
802.11b	2412-2462	1.20	1.32	17.00	50.12	20	0.0131	1.0
802.11g		1.20	1.32	17.00	50.12	20	0.0131	1.0
802.11n-HT20		1.20	1.32	20.00	100.00	20	0.0262	1.0
802.11n-HT40	2422-2452	1.20	1.32	17.00	50.12	20	0.0131	1.0

Result: The device meet FCC MPE at 20 cm distance.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

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

- a. Antenna must be permanently attached to the unit.
 - b. Antenna must use a unique type of connector to attach to the EUT.
- Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

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 two PIFA antennas which used unique couplings to the intentional radiator; fulfill the requirement of this section. Please refer to the EUT photos.

Chain	Antenna Type	Max. Antenna Gain
0	PIFA	1.2 dBi
1	PIFA	1.2 dBi

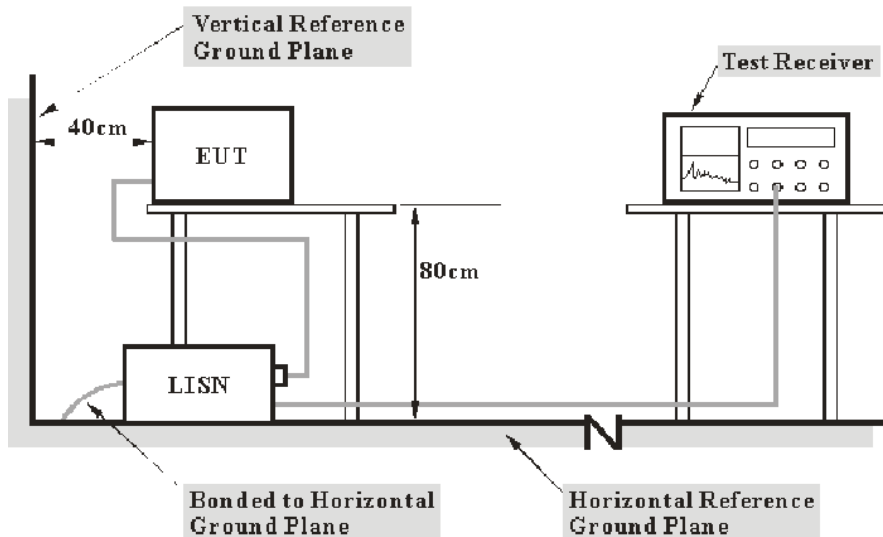
Result: Compliance.

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.

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 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:

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

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:

$$\text{Margin} = \text{Limit} - \text{Reading}$$

Test Results Summary

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

Test Data

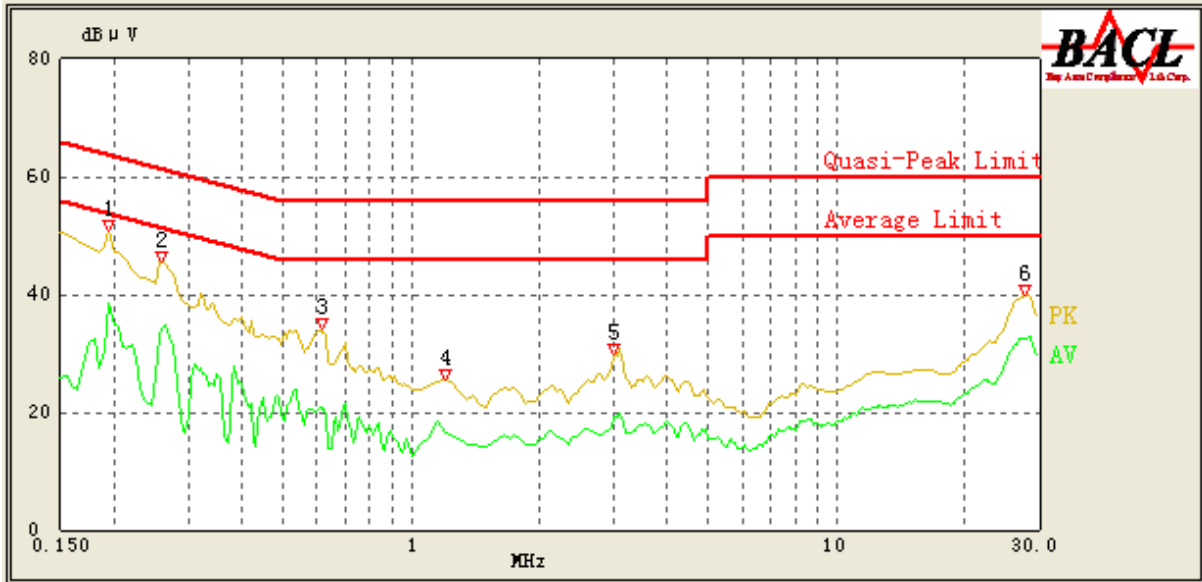
Environmental Conditions

Temperature:	21.2 °C
Relative Humidity:	52 %
ATM Pressure:	101.1 kPa

The testing was performed by Max Min on 2018-03-07.

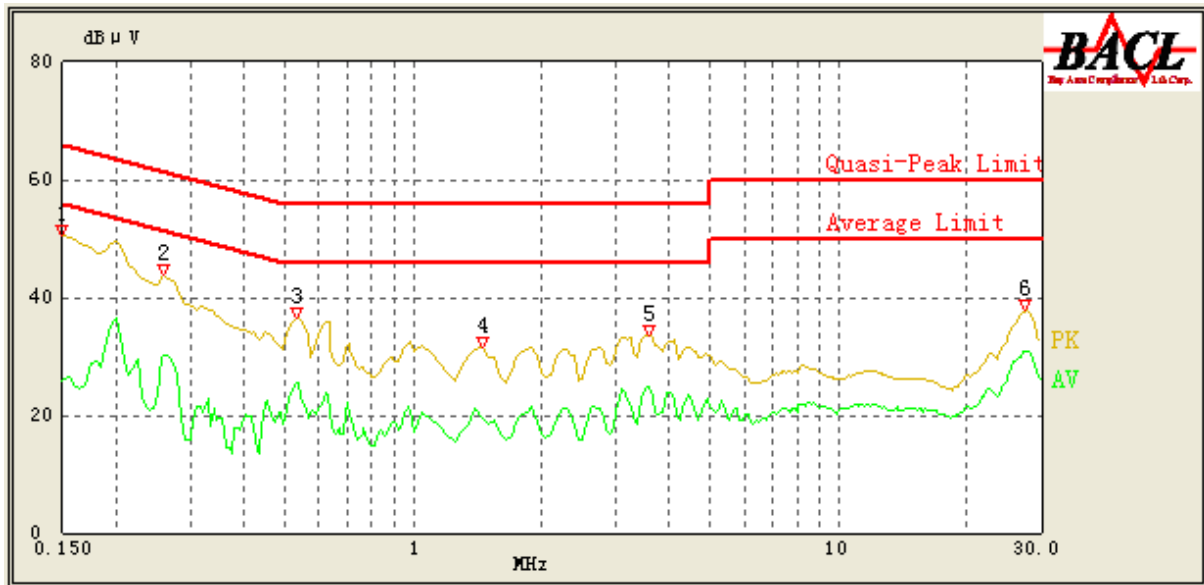
EUT operation mode: Transmitting in low channel of 802.11n-HT20 mode. (Worst case)

AC 120V/60 Hz, Line



Frequency (MHz)	Reading (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.195	50.93	QP	9.000	L1	16.01	64.71	13.78	Compliance
0.195	38.51	AV	9.000	L1	16.01	54.71	16.20	Compliance
0.260	45.54	QP	9.000	L1	16.02	62.86	17.32	Compliance
0.260	34.16	AV	9.000	L1	16.02	52.86	18.70	Compliance
0.615	34.13	QP	9.000	L1	16.01	56.00	21.87	Compliance
0.615	20.64	AV	9.000	L1	16.01	46.00	25.36	Compliance
1.200	25.64	QP	9.000	L1	15.87	56.00	30.36	Compliance
1.200	16.57	AV	9.000	L1	15.87	46.00	29.43	Compliance
3.000	29.99	QP	9.000	L1	15.85	56.00	26.01	Compliance
3.000	19.14	AV	9.000	L1	15.85	46.00	26.86	Compliance
27.800	39.90	QP	9.000	L1	16.53	60.00	20.10	Compliance
28.000	32.57	AV	9.000	L1	16.54	50.00	17.43	Compliance

AC 120V/60 Hz, Neutral



Frequency (MHz)	Reading (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.150	50.53	QP	9.000	N	16.06	66.00	15.47	Compliance
0.150	25.81	AV	9.000	N	16.06	56.00	30.19	Compliance
0.260	43.73	QP	9.000	N	16.06	62.86	19.13	Compliance
0.260	30.06	AV	9.000	N	16.06	52.86	22.80	Compliance
0.530	36.65	QP	9.000	N	16.09	56.00	19.35	Compliance
0.530	25.42	AV	9.000	N	16.09	46.00	20.58	Compliance
1.450	31.46	QP	9.000	N	15.93	56.00	24.54	Compliance
1.450	19.58	AV	9.000	N	15.93	46.00	26.42	Compliance
3.600	33.51	QP	9.000	N	15.89	56.00	22.49	Compliance
3.600	24.76	AV	9.000	N	15.89	46.00	21.24	Compliance
27.400	37.90	QP	9.000	N	16.29	60.00	22.10	Compliance
27.400	30.93	AV	9.000	N	16.29	50.00	19.07	Compliance

Note:

- Corrected Factor = LISN VDF (Voltage Division Factor) + Cable Loss
Margin = Limit - Reading

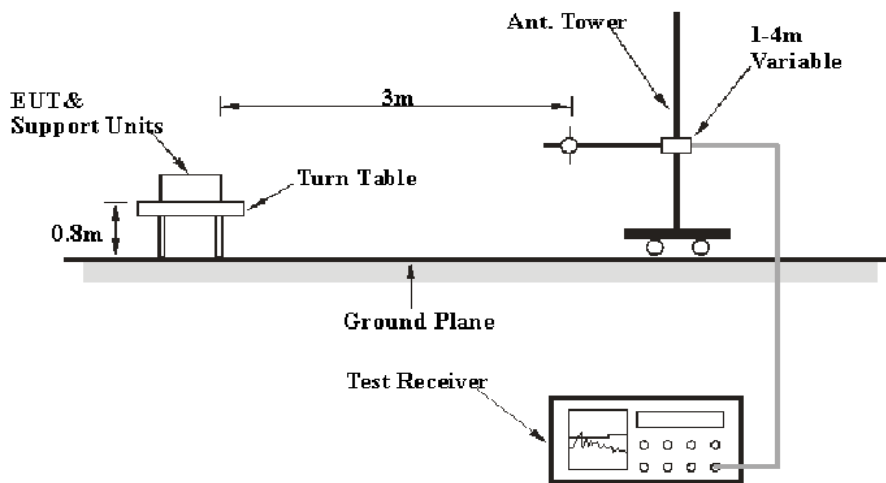
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

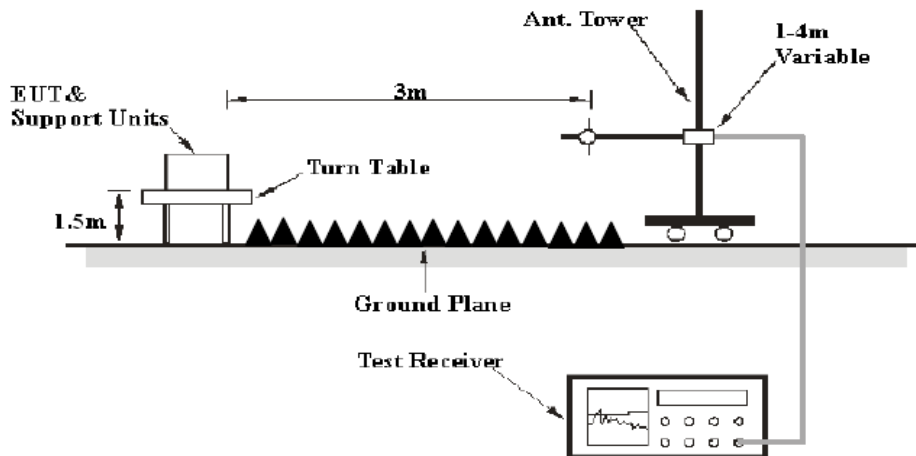
FCC §15.247 (d); §15.209; §15.205;

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 Setup

The system was investigated from 30 MHz to 25 GHz.

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

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

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 mode 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.

Test Data

Environmental Conditions

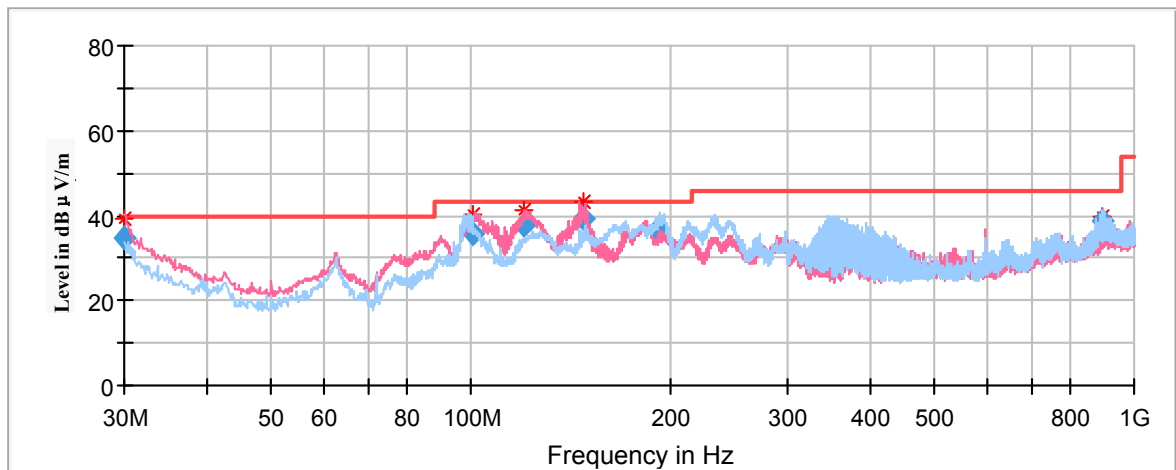
Temperature:	24.2°C
Relative Humidity:	50 %
ATM Pressure:	101.3 kPa

The testing was performed by Max Min on 2018-03-04 to 2018-03-07.

Spurious Emission Test:

30MHz-1GHz:

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X,Y and Z axes of orientation, the worst case low channel of 802.11n-HT20 mode in X-axis of orientation was recorded



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dBμV/m)	Height (cm)	Polar (H/V)				
30.005850	34.56	101.0	V	321.0	-4.4	40.00	5.44
100.974800	35.91	101.0	V	175.0	-15.2	43.50	7.59
120.584300	37.75	101.0	V	191.0	-11.6	43.50	5.75
148.321150	39.37	101.0	V	175.0	-12.7	43.50	4.13
192.040150	36.56	101.0	H	223.0	-13.3	43.50	6.94
894.959700	38.70	101.0	H	67.0	0.1	46.00	7.30

1GHz-18GHz

802.11b Mode (Chain 0):

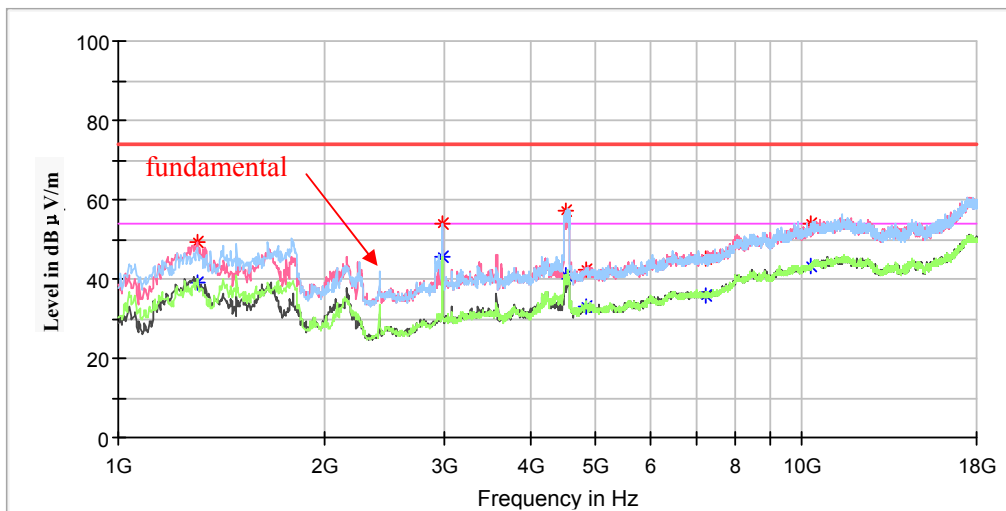
(Pre-scan in the X,Y and Z axes of orientation, the worst case X-axis of orientation was recorded.)

Note:

1. This test was performed with the 2.4-2.4835GHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
 Corrected Amplitude = Corrected Factor + Reading
 Margin = Limit – Corrected. Amplitude

Low Channel: 2412MHz

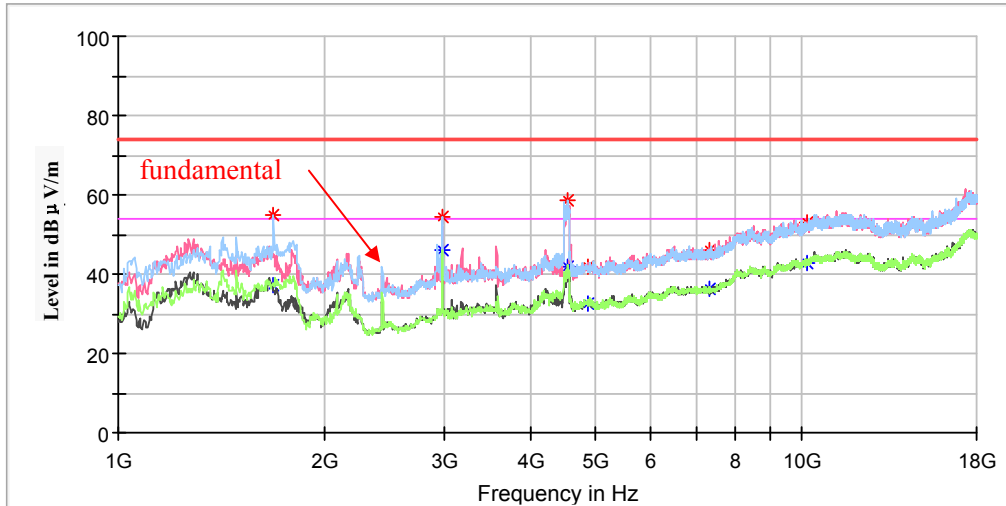
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1302.600000	---	38.94	200.0	V	34.0	-9.5	54.00	15.06
1302.600000	49.16	---	200.0	V	34.0	-9.5	74.00	24.84
2982.200000	---	45.60	150.0	H	324.0	-2.1	54.00	8.40
2982.200000	53.87	---	150.0	H	324.0	-2.1	74.00	20.13
4502.000000	---	40.98	250.0	H	357.0	1.8	54.00	13.02
4502.000000	57.43	---	250.0	H	357.0	1.8	74.00	16.57
4824.000000	---	32.84	200.0	H	15.0	2.5	54.00	21.16
4824.000000	42.39	---	200.0	H	15.0	2.5	74.00	31.61
7236.000000	---	35.76	150.0	H	354.0	9.8	54.00	18.24
7236.000000	45.01	---	150.0	H	354.0	9.8	74.00	28.99
10292.200000	---	43.16	200.0	H	42.0	16.1	54.00	10.84
10292.200000	53.82	---	200.0	H	42.0	16.1	74.00	20.18

Middle Channel: 2437MHz

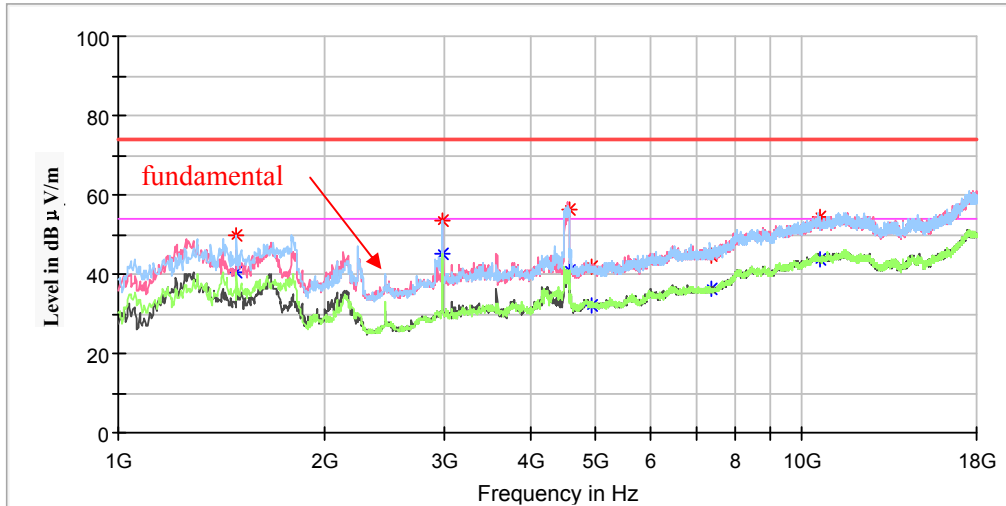
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1686.800000	---	37.27	200.0	H	190.0	-7.2	54.00	16.73
1686.800000	54.79	---	200.0	H	190.0	-7.2	74.00	19.21
2982.200000	---	45.96	150.0	V	326.0	-2.1	54.00	8.04
2982.200000	54.22	---	150.0	V	326.0	-2.1	74.00	19.78
4553.000000	---	42.00	250.0	H	351.0	1.9	54.00	12.00
4553.000000	58.44	---	250.0	H	351.0	1.9	74.00	15.56
4874.000000	41.99	---	200.0	H	80.0	2.6	74.00	32.01
4874.000000	---	32.68	200.0	H	80.0	2.6	54.00	21.32
7311.000000	46.16	---	150.0	H	157.0	10.0	74.00	27.84
7311.000000	---	36.33	150.0	H	157.0	10.0	54.00	17.67
10193.600000	---	42.86	250.0	H	103.0	15.7	54.00	11.14
10193.600000	53.23	---	250.0	H	103.0	15.7	74.00	20.77

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1489.600000	49.68	---	150.0	V	318.0	-8.1	74.00	24.32
1489.600000	---	40.31	150.0	V	318.0	-8.1	54.00	13.69
2982.200000	53.39	---	200.0	H	341.0	-2.1	74.00	20.61
2982.200000	---	44.89	200.0	H	341.0	-2.1	54.00	9.11
4563.200000	---	40.77	250.0	H	353.0	1.9	54.00	13.23
4563.200000	56.33	---	250.0	H	353.0	1.9	74.00	17.67
4924.000000	---	32.04	200.0	H	310.0	2.7	54.00	21.96
4924.000000	42.07	---	200.0	H	310.0	2.7	74.00	31.93
7386.000000	44.72	---	150.0	H	34.0	10.1	74.00	29.28
7386.000000	---	36.39	150.0	H	34.0	10.1	54.00	17.61
10622.000000	---	43.69	200.0	H	180.0	17.0	54.00	10.31
10622.000000	54.34	---	200.0	H	180.0	17.0	74.00	19.66

802.11b Mode (Chain 1):

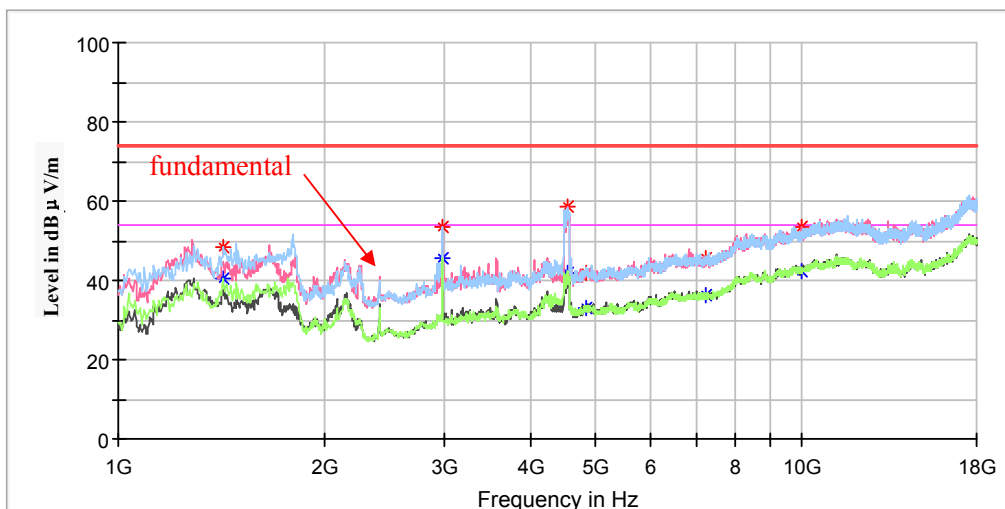
(Pre-scan in the X,Y and Z axes of orientation, the worst case X-axis of orientation was recorded.)

Note:

1. This test was performed with the 2.4-2.4835GHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
 Corrected Amplitude = Corrected Factor + Reading
 Margin = Limit – Corrected. Amplitude

Low Channel: 2412MHz

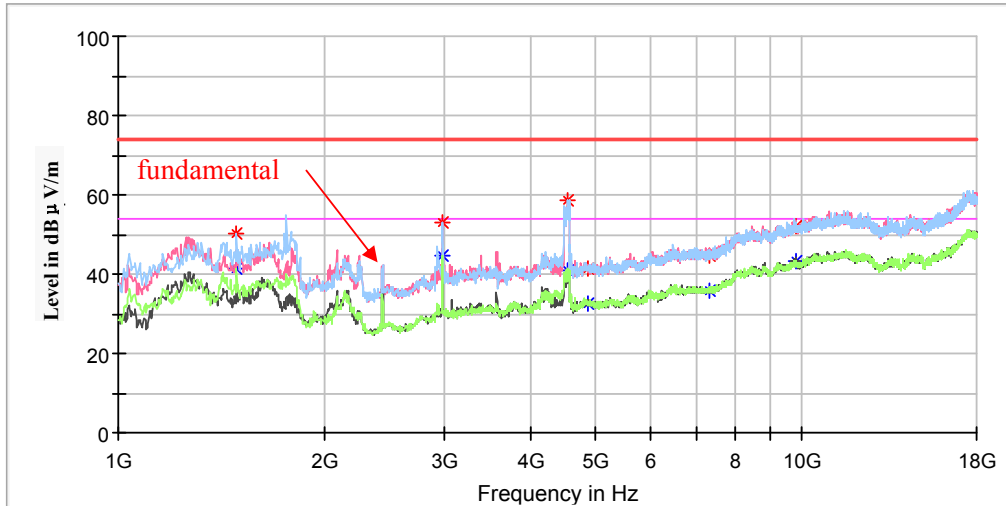
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1421.600000	---	40.49	200.0	H	312.0	-8.6	54.00	13.51
1421.600000	48.31	---	200.0	H	312.0	-8.6	74.00	25.69
2982.200000	---	45.35	150.0	H	341.0	-2.1	54.00	8.65
2982.200000	53.44	---	150.0	H	341.0	-2.1	74.00	20.56
4549.600000	---	41.73	200.0	H	349.0	1.9	54.00	12.27
4549.600000	58.46	---	200.0	H	349.0	1.9	74.00	15.54
4824.000000	41.87	---	150.0	H	22.0	2.5	74.00	32.13
4824.000000	---	32.86	150.0	H	22.0	2.5	54.00	21.14
7236.000000	---	36.39	250.0	H	35.0	9.8	54.00	17.61
7236.000000	45.74	---	250.0	H	35.0	9.8	74.00	28.26
10006.600000	---	42.33	200.0	V	349.0	14.9	54.00	11.67
10006.600000	53.43	---	200.0	V	349.0	14.9	74.00	20.57

Middle Channel: 2437MHz

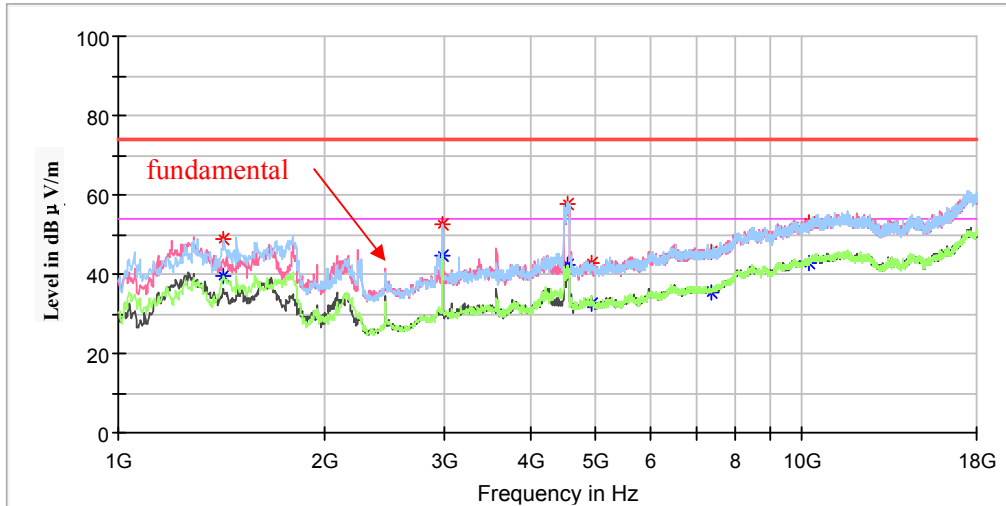
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1489.600000	---	41.26	200.0	H	310.0	-8.1	54.00	12.74
1489.600000	50.08	---	200.0	H	310.0	-8.1	74.00	23.92
2982.200000	---	44.88	150.0	H	339.0	-2.1	54.00	9.12
2982.200000	52.97	---	150.0	H	339.0	-2.1	74.00	21.03
4549.600000	---	41.14	200.0	H	352.0	1.9	54.00	12.86
4549.600000	58.43	---	200.0	H	352.0	1.9	74.00	15.57
4874.000000	---	32.75	150.0	H	354.0	2.6	54.00	21.25
4874.000000	41.45	---	150.0	H	254.0	2.6	74.00	32.55
7311.000000	---	35.92	200.0	H	359.0	10.0	54.00	18.08
7311.000000	44.85	---	200.0	H	359.0	10.0	74.00	29.15
9812.800000	---	43.35	150.0	V	152.0	14.9	54.00	10.65
9812.800000	52.18	---	150.0	V	152.0	14.9	74.00	21.82

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1428.400000	---	39.74	200.0	H	321.0	-8.6	54.00	14.26
1428.400000	48.63	---	200.0	H	321.0	-8.6	74.00	25.37
2982.200000	---	44.74	150.0	H	319.0	-2.1	54.00	9.26
2982.200000	52.58	---	150.0	H	319.0	-2.1	74.00	21.42
4529.200000	---	42.50	250.0	H	354.0	1.9	54.00	11.50
4529.200000	57.84	---	250.0	H	354.0	1.9	74.00	16.16
4924.000000	---	32.76	200.0	H	290.0	2.7	54.00	21.24
4924.000000	42.66	---	200.0	H	290.0	2.7	74.00	31.34
7386.000000	---	35.45	150.0	H	265.0	10.1	54.00	18.55
7386.000000	45.56	---	150.0	H	265.0	10.1	74.00	28.44
10265.000000	---	42.93	200.0	V	203.0	16.0	54.00	11.07
10265.000000	52.80	---	200.0	V	203.0	16.0	74.00	21.20

802.11g Mode(Chain 0):

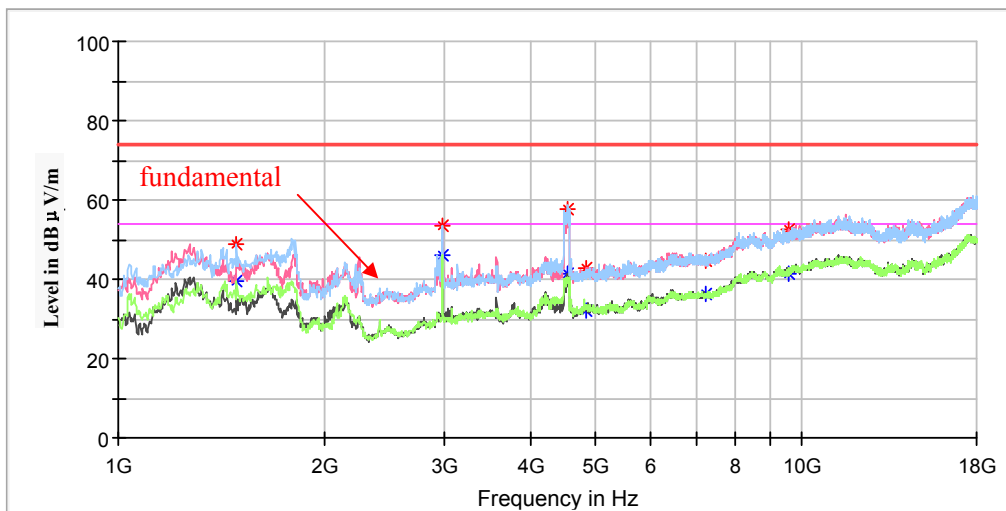
(Pre-scan in the X,Y and Z axes of orientation, the worst case X-axis of orientation was recorded.)

Note:

1. This test was performed with the 2.4-2.4835GHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
 Corrected Amplitude = Corrected Factor + Reading
 Margin = Limit – Corrected. Amplitude

Low Channel: 2412MHz

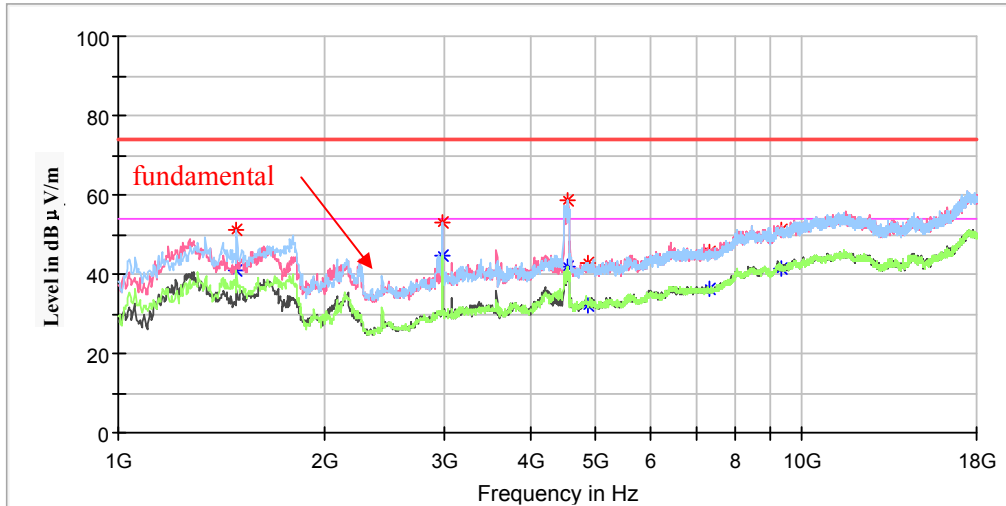
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1489.600000	---	39.54	200.0	H	62.0	-8.1	54.00	14.46
1489.600000	49.06	---	200.0	H	62.0	-8.1	74.00	24.94
2982.200000	---	45.87	150.0	H	324.0	-2.1	54.00	8.13
2982.200000	53.58	---	150.0	H	324.0	-2.1	74.00	20.42
4553.000000	---	41.37	250.0	V	11.0	1.9	54.00	12.63
4553.000000	57.50	---	250.0	V	11.0	1.9	74.00	16.50
4824.000000	42.66	---	150.0	H	67.0	2.5	74.00	31.34
4824.000000	---	32.04	150.0	H	67.0	2.5	54.00	21.96
7236.000000	44.87	---	200.0	H	137.0	9.8	74.00	29.13
7236.000000	---	36.15	200.0	H	137.0	9.8	54.00	17.85
9574.800000	---	41.49	150.0	H	338.0	14.9	54.00	12.51
9574.800000	52.35	---	150.0	H	338.0	14.9	74.00	21.65

Middle Channel: 2437MHz

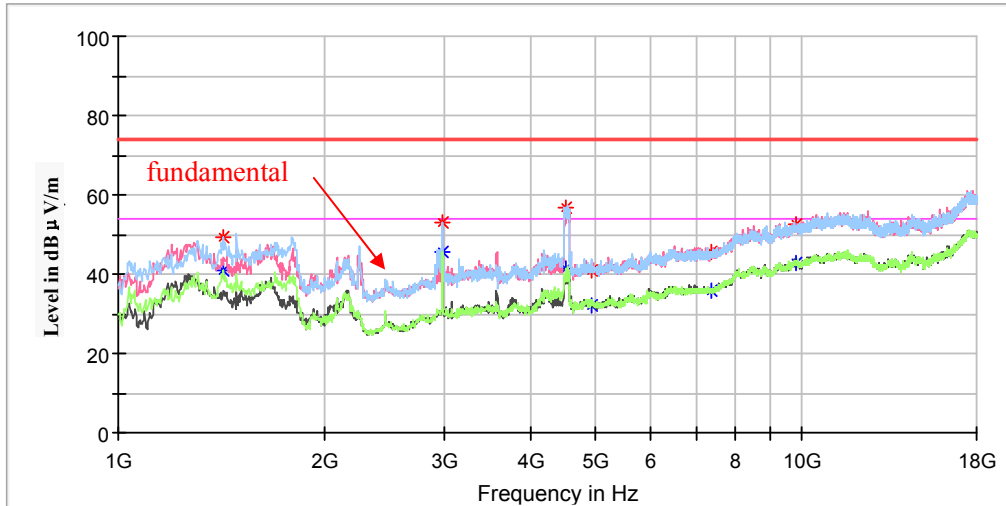
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1489.600000	---	40.98	200.0	H	313.0	-8.1	54.00	13.02
1489.600000	51.08	---	200.0	H	313.0	-8.1	74.00	22.92
2982.200000	---	44.78	150.0	H	324.0	-2.1	54.00	9.22
2982.200000	53.13	---	150.0	H	324.0	-2.1	74.00	20.87
4549.600000	---	41.68	200.0	H	353.0	1.9	54.00	12.32
4549.600000	58.83	---	200.0	H	353.0	1.9	74.00	15.17
4874.000000	---	32.09	250.0	H	22.0	2.6	54.00	21.91
4874.000000	42.76	---	250.0	H	22.0	2.6	74.00	31.24
7311.000000	---	36.30	150.0	H	147.0	10.0	54.00	17.70
7311.000000	45.53	---	150.0	H	147.0	10.0	74.00	28.47
9343.600000	---	41.26	200.0	V	240.0	14.2	54.00	12.74
9343.600000	51.29	---	200.0	V	240.0	14.2	74.00	22.71

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1425.000000	---	40.73	200.0	H	326.0	-8.6	54.00	13.27
1425.000000	49.48	---	200.0	H	326.0	-8.6	74.00	24.52
2982.200000	---	45.77	150.0	H	325.0	-2.1	54.00	8.23
2982.200000	52.95	---	150.0	H	325.0	-2.1	74.00	21.05
4522.400000	---	41.37	250.0	H	350.0	1.9	54.00	12.63
4522.400000	56.62	---	250.0	H	350.0	1.9	74.00	17.38
4924.000000	---	32.32	150.0	H	214.0	2.7	54.00	21.68
4924.000000	41.04	---	150.0	H	214.0	2.7	74.00	32.96
7386.000000	---	35.67	250.0	H	217.0	10.1	54.00	18.33
7386.000000	45.39	---	250.0	H	217.0	10.1	74.00	28.61
9802.600000	---	42.57	200.0	V	60.0	14.9	54.00	11.43
9802.600000	52.56	---	200.0	V	60.0	14.9	74.00	21.44

802.11g Mode(Chain 1):

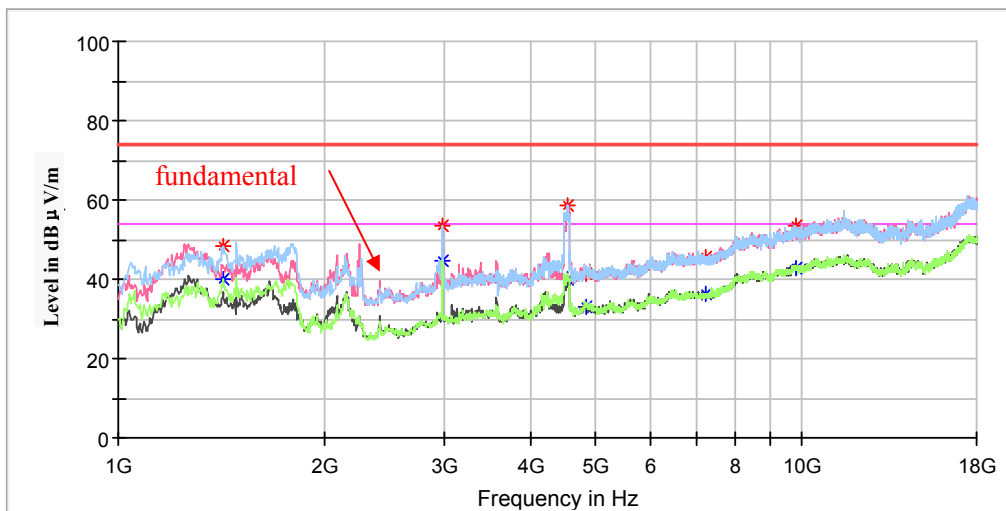
(Pre-scan in the X,Y and Z axes of orientation, the worst case X-axis of orientation was recorded.)

Note:

1. This test was performed with the 2.4-2.4835GHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
 Corrected Amplitude = Corrected Factor + Reading
 Margin = Limit – Corrected. Amplitude

Low Channel: 2412MHz

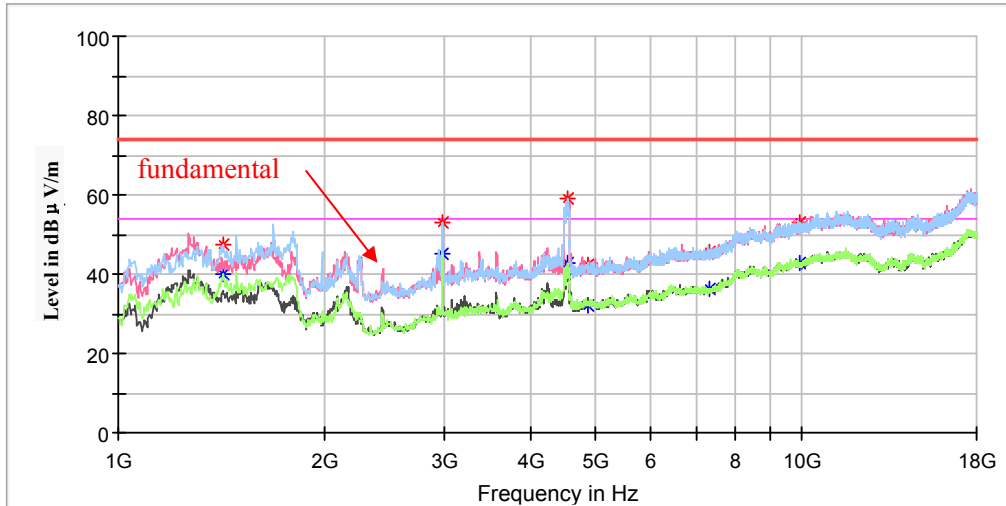
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1428.400000	---	39.78	200.0	H	327.0	-8.6	54.00	14.22
1428.400000	48.24	---	200.0	H	327.0	-8.6	74.00	25.76
2982.200000	53.33	---	150.0	H	319.0	-2.1	74.00	20.67
2982.200000	---	44.71	150.0	H	319.0	-2.1	54.00	9.29
4549.600000	58.70	---	200.0	H	353.0	1.9	74.00	15.30
4549.600000	---	39.97	200.0	H	353.0	1.9	54.00	14.03
4824.000000	---	33.17	150.0	H	117.0	2.5	54.00	20.83
4824.000000	41.26	---	150.0	H	117.0	2.5	74.00	32.74
7236.000000	---	36.10	200.0	H	170.0	9.8	54.00	17.90
7236.000000	45.47	---	200.0	H	170.0	9.8	74.00	28.53
9789.000000	---	42.86	250.0	V	47.0	14.9	54.00	11.14
9789.000000	53.57	---	250.0	V	47.0	14.9	74.00	20.43

Middle Channel: 2437MHz

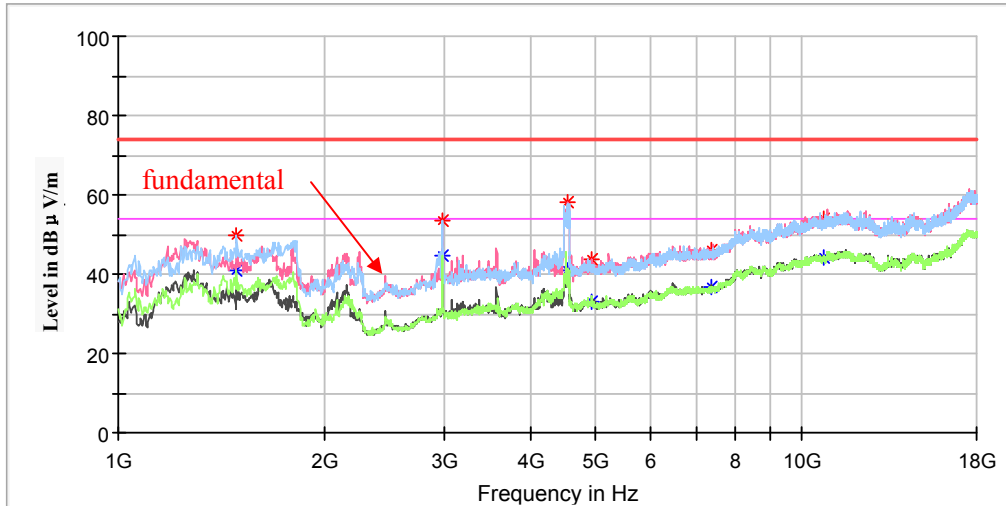
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1425.000000	---	40.18	200.0	V	323.0	-8.6	54.00	13.82
1425.000000	47.44	---	200.0	V	323.0	-8.6	74.00	26.56
2982.200000	---	45.32	150.0	H	319.0	-2.1	54.00	8.68
2982.200000	52.82	---	150.0	H	319.0	-2.1	74.00	21.18
4553.000000	---	42.62	200.0	H	351.0	1.9	54.00	11.38
4553.000000	58.89	---	200.0	H	351.0	1.9	74.00	15.11
4874.000000	---	32.28	250.0	H	338.0	2.6	54.00	21.72
4874.000000	42.18	---	250.0	H	338.0	2.6	74.00	31.82
7311.000000	---	36.19	150.0	H	354.0	9.9	54.00	17.81
7311.000000	45.78	---	150.0	H	354.0	9.9	74.00	28.22
9938.600000	---	42.69	200.0	H	80.0	14.9	54.00	11.31
9938.600000	52.92	---	200.0	H	80.0	14.9	74.00	21.08

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1489.600000	49.70	---	150.0	H	327.0	-8.1	74.00	24.30
1489.600000	---	40.94	150.0	H	327.0	-8.1	54.00	13.06
2982.200000	---	44.63	250.0	H	341.0	-2.1	54.00	9.37
2982.200000	53.48	---	250.0	H	341.0	-2.1	74.00	20.52
4553.000000	---	40.77	200.0	V	6.0	1.9	54.00	13.23
4553.000000	58.01	---	200.0	V	6.0	1.9	74.00	15.99
4924.000000	---	32.93	250.0	H	96.0	2.7	54.00	21.07
4924.000000	43.69	---	250.0	H	96.0	2.7	74.00	30.31
7386.000000	---	36.87	150.0	H	238.0	10.1	54.00	17.13
7386.000000	46.15	---	150.0	H	238.0	10.1	74.00	27.85
10737.600000	---	44.16	200.0	H	190.0	17.1	54.00	9.84
10737.600000	53.96	---	200.0	H	190.0	17.1	74.00	20.04

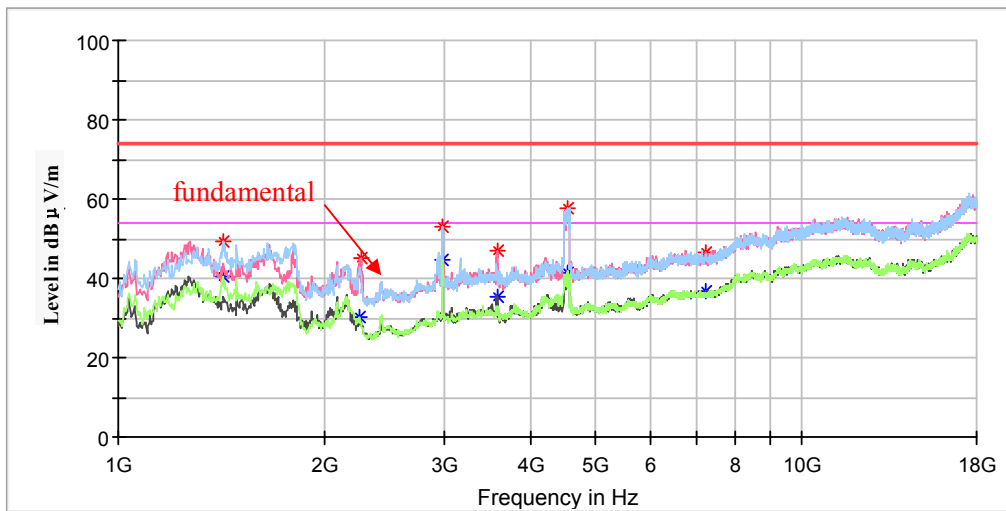
802.11n-HT20 Mode(Chain0+Chain1):

Note:

1. This test was performed with the 2.4-2.4835GHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
 Corrected Amplitude = Corrected Factor + Reading
 Margin = Limit – Corrected. Amplitude

Low Channel: 2412MHz

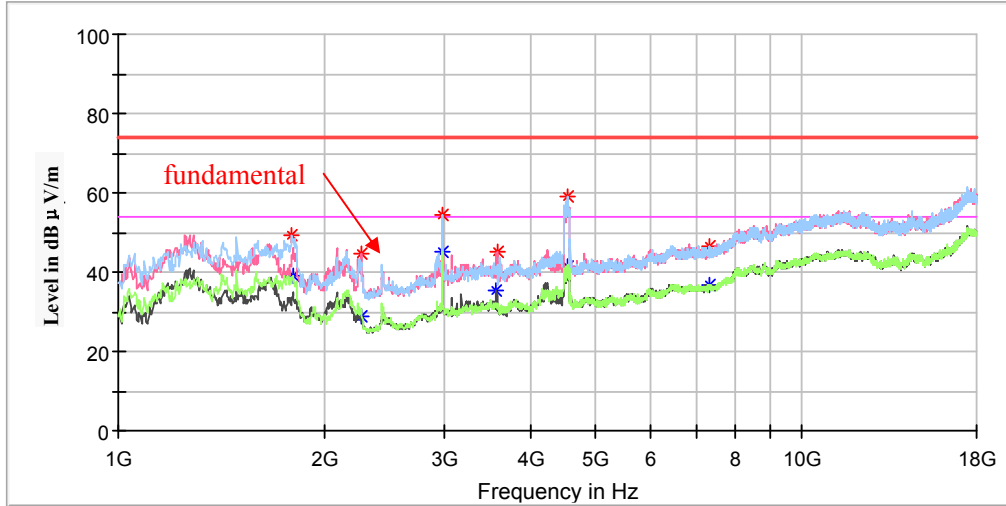
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1421.600000	---	40.52	200.0	H	312.0	-8.6	54.00	13.48
1421.600000	49.25	---	200.0	H	312.0	-8.6	74.00	24.75
2251.200000	---	30.21	150.0	V	210.0	-5.3	54.00	23.79
2251.200000	44.92	---	150.0	V	210.0	-5.3	74.00	29.08
2982.200000	52.90	---	250.0	H	324.0	-2.1	74.00	21.10
2982.200000	---	44.71	250.0	H	324.0	-2.1	54.00	9.29
3580.600000	46.88	---	150.0	H	341.0	-0.6	74.00	27.12
3580.600000	---	35.34	150.0	H	341.0	-0.6	54.00	18.66
4536.000000	---	41.45	250.0	H	349.0	1.9	54.00	12.55
4536.000000	57.51	---	250.0	H	349.0	1.9	74.00	16.49
7222.000000	46.47	---	200.0	H	236.0	9.8	74.00	27.53
7222.000000	---	36.70	200.0	H	236.0	9.8	54.00	17.30

Middle Channel: 2437MHz

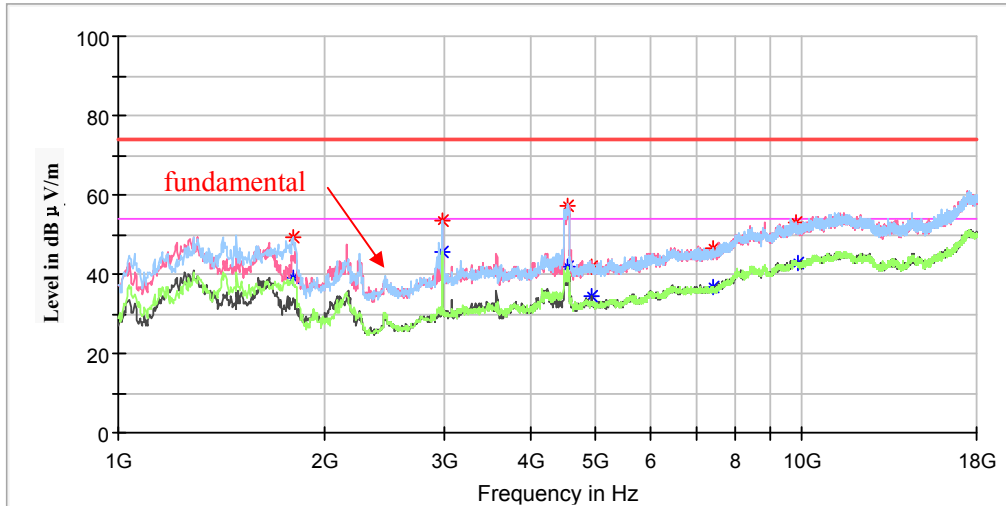
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1795.600000	49.39	---	150.0	H	354.0	-6.8	74.00	24.61
1795.600000	---	39.02	150.0	H	354.0	-6.8	54.00	14.98
2264.800000	---	28.85	200.0	V	120.0	-5.3	54.00	25.15
2264.800000	44.44	---	200.0	V	120.0	-5.3	74.00	29.56
2982.200000	---	45.17	150.0	H	332.0	-2.1	54.00	8.83
2982.200000	54.25	---	150.0	H	332.0	-2.1	74.00	19.75
3577.200000	---	35.49	200.0	H	97.0	-0.6	54.00	18.51
3577.200000	45.16	---	200.0	H	97.0	-0.6	74.00	28.84
4546.200000	58.85	---	250.0	H	353.0	1.9	74.00	15.15
4546.200000	---	41.46	250.0	H	353.0	1.9	54.00	12.54
7311.000000	46.41	---	150.0	H	354.0	10.0	74.00	27.59
7311.000000	---	36.51	150.0	H	354.0	10.0	54.00	17.49

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1802.400000	---	38.98	250.0	V	353.0	-6.8	54.00	15.02
1802.400000	49.44	---	250.0	V	353.0	-6.8	74.00	24.56
2982.200000	---	45.72	200.0	H	341.0	-2.1	54.00	8.28
2982.200000	53.52	---	200.0	H	341.0	-2.1	74.00	20.48
4549.600000	57.38	---	150.0	H	114.0	1.9	74.00	16.62
4549.600000	---	41.92	150.0	H	114.0	1.9	54.00	12.08
4924.000000	42.03	---	250.0	H	64.0	2.7	74.00	31.97
4924.000000	---	34.24	250.0	H	64.0	2.7	54.00	19.76
7386.000000	46.63	---	200.0	H	156.0	10	74.00	27.37
7486.000000	---	36.67	200.0	H	156.0	10	54.00	17.33
9826.400000	52.85	---	150.0	H	349.0	14.9	74.00	21.15
9826.400000	---	42.69	150.0	H	349.0	14.9	54.00	11.31

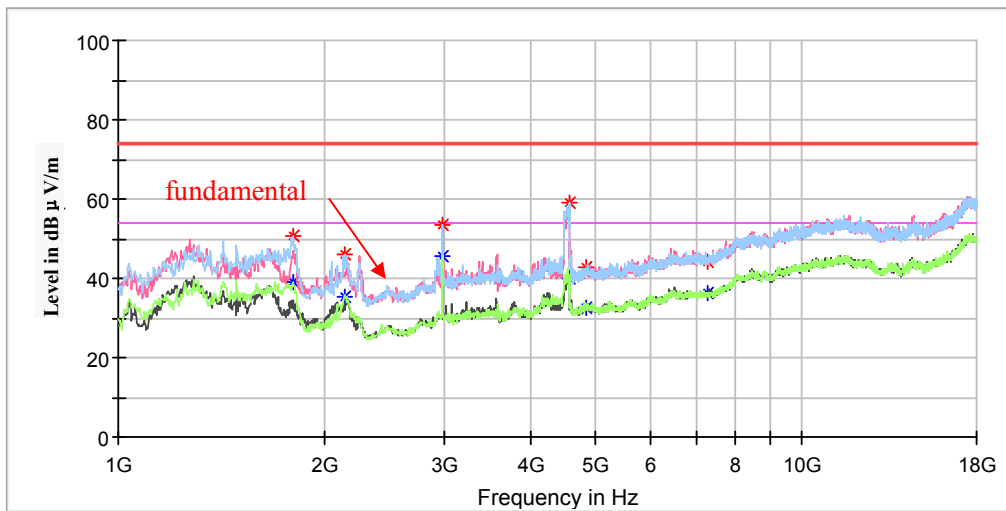
802.11n-HT40 Mode(Chain0+Chain1):

Note:

1. This test was performed with the 2.4-2.4835GHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
 Corrected Amplitude = Corrected Factor + Reading
 Margin = Limit – Corrected. Amplitude

Low Channel: 2422MHz

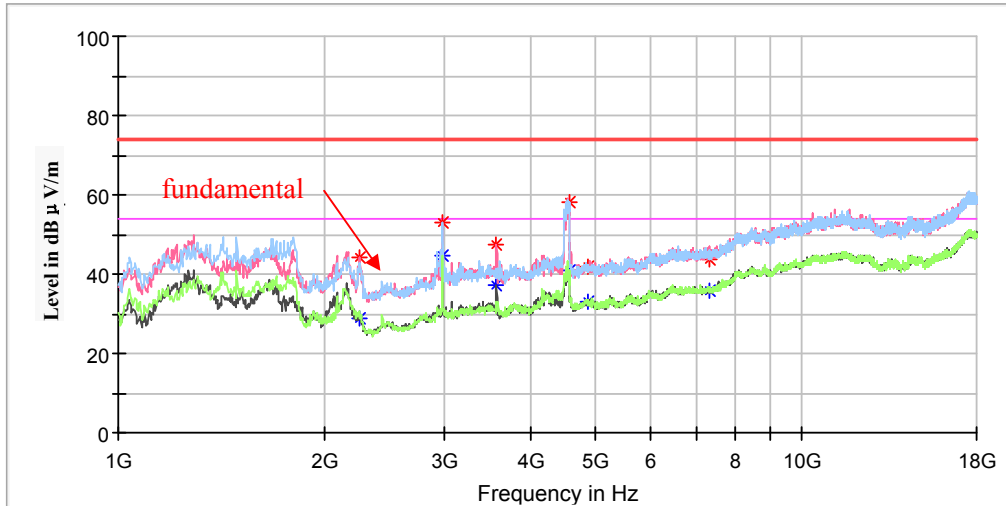
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1799.000000	50.58	---	150.0	H	359.0	-6.8	74.00	23.42
1799.000000	---	38.85	150.0	H	359.0	-6.8	54.00	15.15
2139.000000	46.09	---	200.0	V	75.0	-5.6	74.00	27.91
2139.000000	---	35.20	200.0	V	75.0	-5.6	54.00	18.80
2982.200000	53.31	---	150.0	H	341.0	-2.1	74.00	20.69
2982.200000	---	45.77	150.0	H	341.0	-2.1	54.00	8.23
4566.600000	59.08	---	200.0	H	353.0	2.0	74.00	14.92
4566.600000	---	40.12	200.0	H	353.0	2.0	54.00	13.88
4844.000000	---	32.71	150.0	H	56.0	2.6	54.00	21.29
4844.000000	42.74	---	150.0	H	56.0	2.6	74.00	31.26
7266.000000	---	36.13	200.0	H	196.0	9.9	54.00	17.87
7266.000000	44.31	---	200.0	H	196.0	9.9	74.00	29.69

Middle Channel: 2437MHz

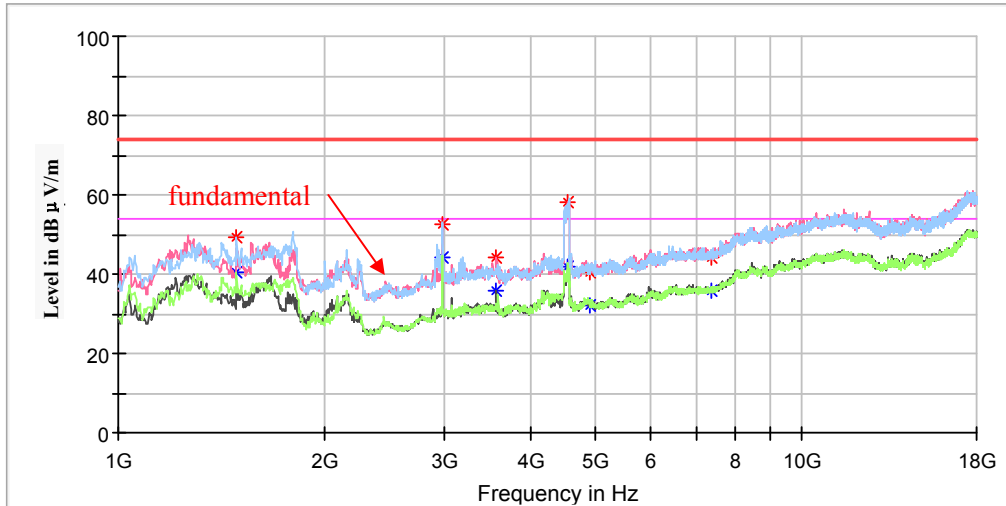
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
2254.600000	---	28.66	200.0	V	30.0	-5.3	54.00	25.34
2254.600000	44.30	---	200.0	V	30.0	-5.3	74.00	29.70
2982.200000	52.80	---	150.0	H	323.0	-2.1	74.00	21.20
2982.200000	---	44.83	150.0	H	323.0	-2.1	54.00	9.17
3577.200000	47.35	---	250.0	H	335.0	-0.6	74.00	26.65
3577.200000	---	37.34	250.0	H	335.0	-0.6	54.00	16.66
4566.600000	58.27	---	200.0	H	353.0	2.0	74.00	15.73
4566.600000	---	40.94	200.0	H	353.0	2.0	54.00	13.06
4874.000000	---	32.91	150.0	H	210.0	2.6	54.00	21.09
4874.000000	41.88	---	150.0	H	210.0	2.6	74.00	32.12
7311.000000	---	35.69	250.0	H	291.0	10.0	54.00	18.31
7311.000000	43.66	---	250.0	H	291.0	10.0	74.00	30.34

High Channel: 2452MHz

Full Spectrum

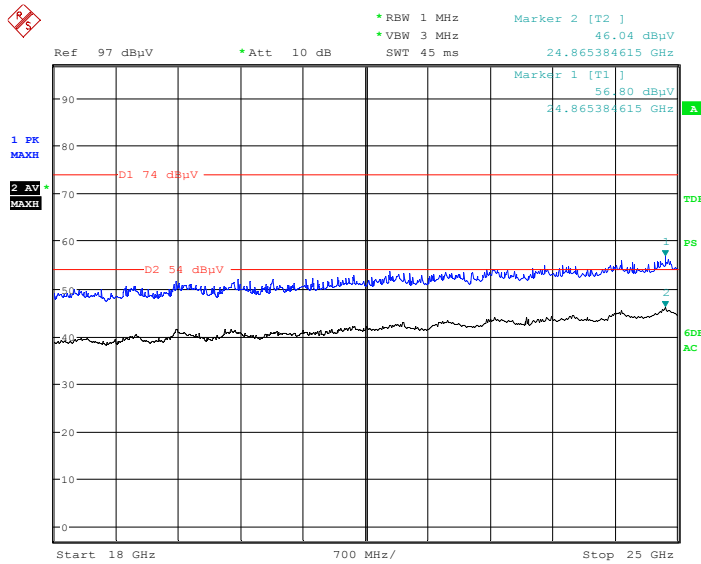


Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1489.600000	---	40.61	200.0	H	312.0	-8.1	54.00	13.39
1489.600000	49.08	---	200.0	H	312.0	-8.1	74.00	24.92
2982.200000	---	44.35	250.0	V	50.0	-2.1	54.00	9.65
2982.200000	52.70	---	250.0	V	50.0	-2.1	74.00	21.30
3577.200000	---	35.93	150.0	H	341.0	-0.6	54.00	18.07
3577.200000	44.02	---	150.0	H	341.0	-0.6	74.00	29.98
4553.000000	---	42.08	200.0	H	344.0	1.9	54.00	11.92
4553.000000	58.37	---	200.0	H	344.0	1.9	74.00	15.63
4904.000000	---	32.19	150.0	H	164.0	2.7	54.00	21.81
4904.000000	40.38	---	150.0	H	164.0	2.7	74.00	33.62
7356.000000	---	35.71	200.0	H	290.0	10.0	54.00	18.29
7356.000000	44.32	---	200.0	H	290.0	10.0	74.00	29.68

18GHz-25GHz

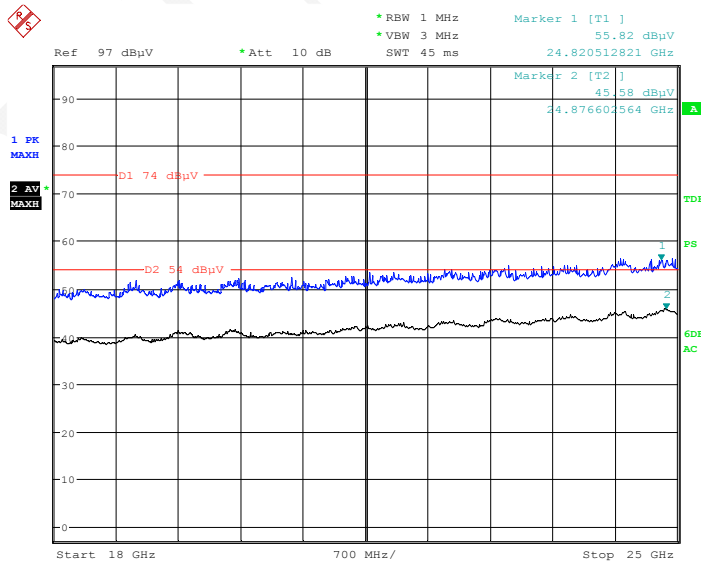
Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X,Y and Z axes of orientation, the worst case low channel of 802.11n-HT20 mode in X-axis of orientation was recorded

Horizontal



Date: 7.MAR.2018 15:49:20

Vertical



Date: 7.MAR.2018 17:38:52

Fundamental Test & Restricted Bands Emissions Test:

Note:

1. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
2. Corrected Amplitude = Corrected Factor + Reading
3. Margin = Limit - Corrected. Amplitude

802.11b Mode (Chain 0): (Pre-scan in the X,Y and Z axes of orientation, the worst case in Y-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV /m)	Average (dBµV /m)	Height (cm)	Polar (H/V)				
Low Channel: 2412MHz								
2412.00	---	95.26	211	H	126	5.1	/	/
2412.00	98.37	---	211	H	126	5.1	/	/
2390.00	---	40.76	207	H	257	5.1	54	13.24
2390.00	49.79	---	207	H	257	5.1	74	24.21
Middle Channel: 2437MHz								
2437.00	97.98	---	227	H	114	5.2	/	/
2437.00	---	95.92	227	H	114	5.2	/	/
High Channel: 2462MHz								
2462.00	---	96.99	210	H	321	5.2	/	/
2462.00	99.47	---	210	H	321	5.2	/	/
2483.50	---	41.83	237	H	200	5.3	54	12.17
2483.50	53.22	---	237	H	200	5.3	74	20.78

802.11b Mode (Chain 1): (Pre-scan in the X,Y and Z axes of orientation, the worst case in Y-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV /m)	Average (dBµV /m)	Height (cm)	Polar (H/V)				
Low Channel: 2412MHz								
2412.00	---	96.87	176	H	203	5.1	/	/
2412.00	99.96	---	176	H	203	5.1	/	/
2390.00	---	42.36	170	H	292	5.1	54	11.64
2390.00	51.87	---	170	H	292	5.1	74	22.13
Middle Channel: 2437MHz								
2437.00	100.02	---	224	H	48	5.2	/	/
2437.00	---	98.19	224	H	48	5.2	/	/
High Channel: 2462MHz								
2462.00	---	98.38	197	H	323	5.2	/	/
2462.00	100.32	---	197	H	323	5.2	/	/
2483.50	---	42.89	166	H	259	5.3	54	11.11
2483.50	53.73	---	166	H	259	5.3	74	20.27

802.11g Mode (Chain 0): (Pre-scan in the X,Y and Z axes of orientation, the worst case in Y-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
Low Channel: 2412MHz								
2412.00	---	84.01	200	H	233	5.1	/	/
2412.00	95.36	---	200	H	233	5.1	/	/
2390.00	---	40.53	150	H	98	5.1	54	13.47
2390.00	52.31	---	150	H	98	5.1	74	21.69
Middle Channel: 2437MHz								
2437.00	91.78	---	200	H	85	5.2	/	/
2437.00	---	84.89	200	H	85	5.2	/	/
High Channel: 2462MHz								
2462.00	---	85.67	200	H	74	5.2	/	/
2462.00	92.45	---	200	H	74	5.2	/	/
2483.50	---	41.66	150	H	209	5.3	54	12.34
2483.50	52.16	---	150	H	209	5.3	74	21.84

802.11g Mode (Chain 1): (Pre-scan in the X,Y and Z axes of orientation, the worst case in Y-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
Low Channel: 2412MHz								
2412.00	---	90.79	200	H	112	5.1	/	/
2412.00	98.07	---	200	H	112	5.1	/	/
2390.00	---	41.98	150	H	356	5.1	54	12.02
2390.00	53.12	---	150	H	356	5.1	74	20.88
Middle Channel: 2437MHz								
2437.00	98.16	---	200	H	7	5.2	/	/
2437.00	---	91.75	200	H	7	5.2	/	/
High Channel: 2462MHz								
2462.00	---	90.13	200	H	74	5.2	/	/
2462.00	98.32	---	200	H	74	5.2	/	/
2483.50	---	44.31	150	H	142	5.3	54	9.69
2483.50	57.36	---	150	H	142	5.3	74	16.64

802.11n-HT20 Mode (Chain0+Chain1): (Pre-scan in the X,Y and Z axes of orientation, the worst case in Y-axis of orientation was recorded)

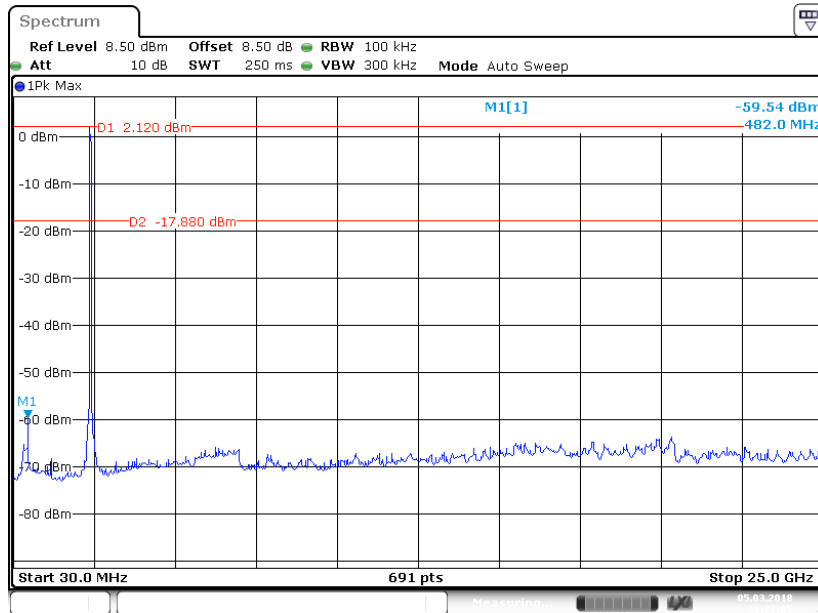
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
Low Channel: 2412MHz								
2412.00	---	90.12	200	H	188	5.1	/	/
2412.00	97.78	---	200	H	188	5.1	/	/
2390.00	---	43.56	150	H	79	5.1	54	10.44
2390.00	58.39	---	150	H	79	5.1	74	15.61
Middle Channel: 2437MHz								
2437.00	96.37	---	200	H	312	5.2	/	/
2437.00	---	89.76	200	H	312	5.2	/	/
High Channel: 2462MHz								
2462.00	---	90.13	200	H	158	5.2	/	/
2462.00	97.68	---	200	H	158	5.2	/	/
2483.50	---	44.13	150	H	271	5.3	54	9.87
2483.50	57.69	---	150	H	271	5.3	74	16.31

802.11n-HT40 Mode (Chain0+Chain1): (Pre-scan in the X,Y and Z axes of orientation, the worst case in Y-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
Low Channel: 2422MHz								
2422.00	---	87.76	200	H	218	5.1	/	/
2422.00	93.99	---	200	H	218	5.1	/	/
2390.00	---	43.18	150	H	73	5.1	54	10.82
2390.00	56.21	---	150	H	73	5.1	74	17.79
Middle Channel: 2437MHz								
2437.00	94.77	---	150	H	323	5.2	/	/
2437.00	---	97.87	150	H	323	5.2	/	/
High Channel: 2452MHz								
2452.00	---	87.39	200	H	132	5.2	/	/
2452.00	94.76	---	200	H	132	5.2	/	/
2483.50	---	42.89	150	H	167	5.3	54	11.11
2483.50	55.17	---	150	H	137	5.3	74	18.83

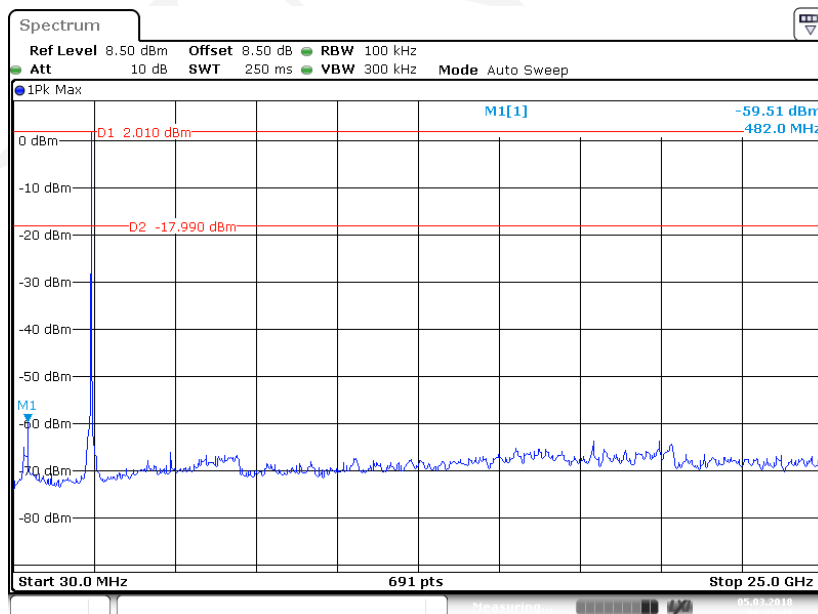
Conducted Spurious Emissions at Antenna Port

Chain0: 802.11b Low Channel



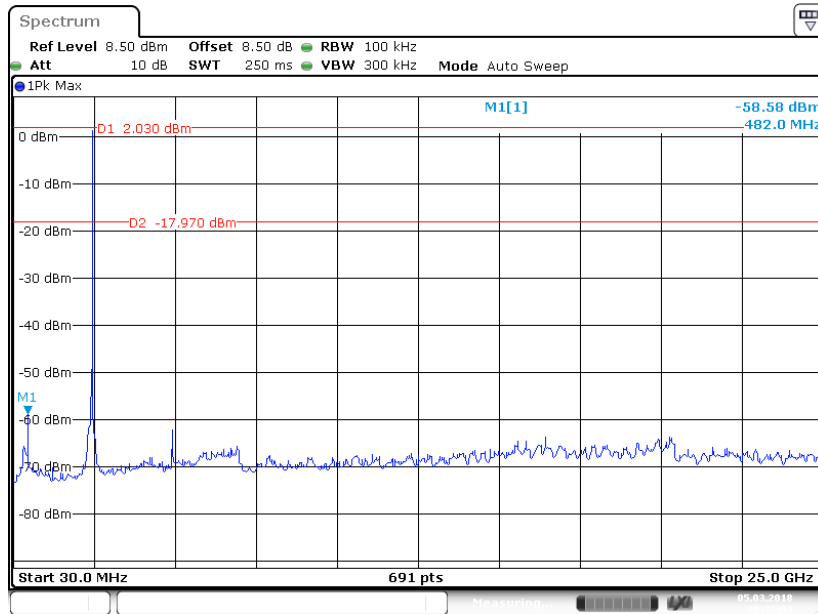
Date: 5 MAR 2018 06:27:05

Chain0: 802.11b Middle Channel



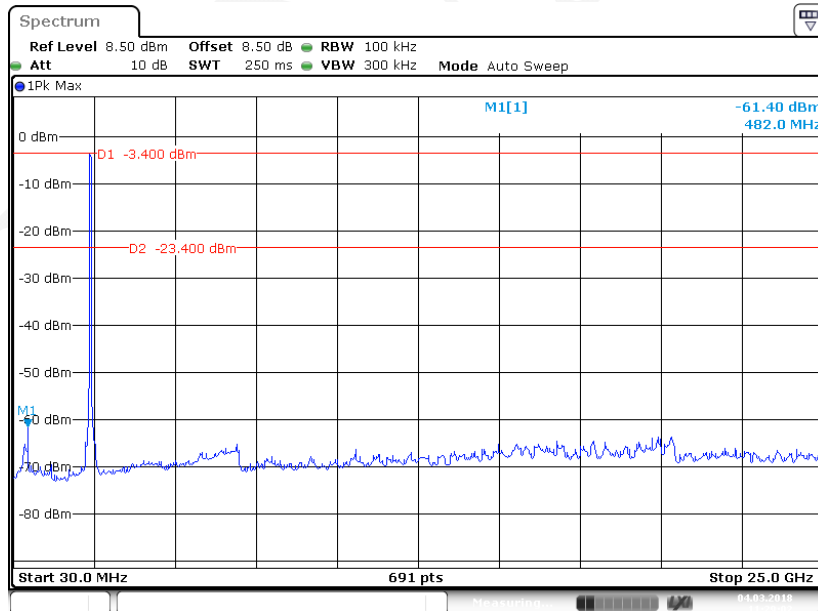
Date: 5 MAR 2018 06:32:48

Chain0: 802.11b High Channel



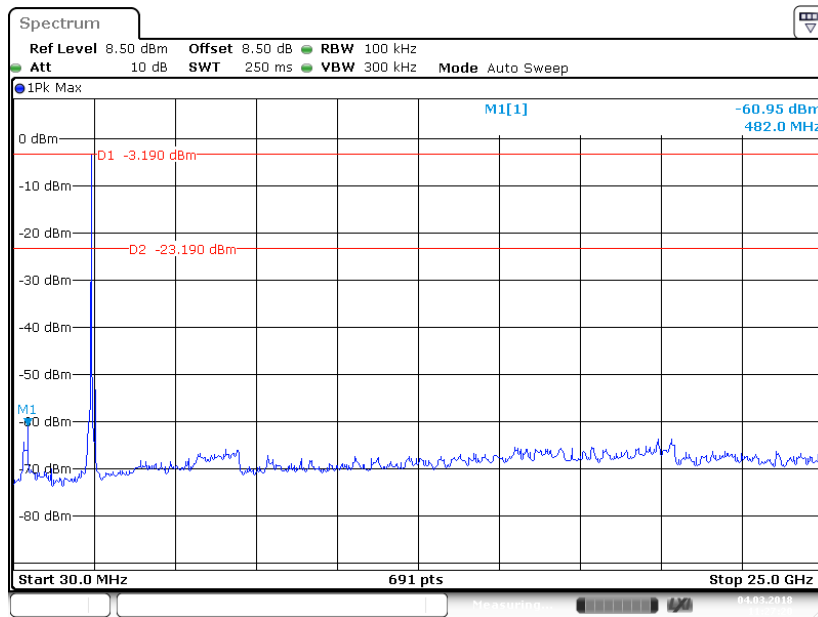
Date: 5 MAR 2018 06:32:03

Chain0: 802.11g Low Channel

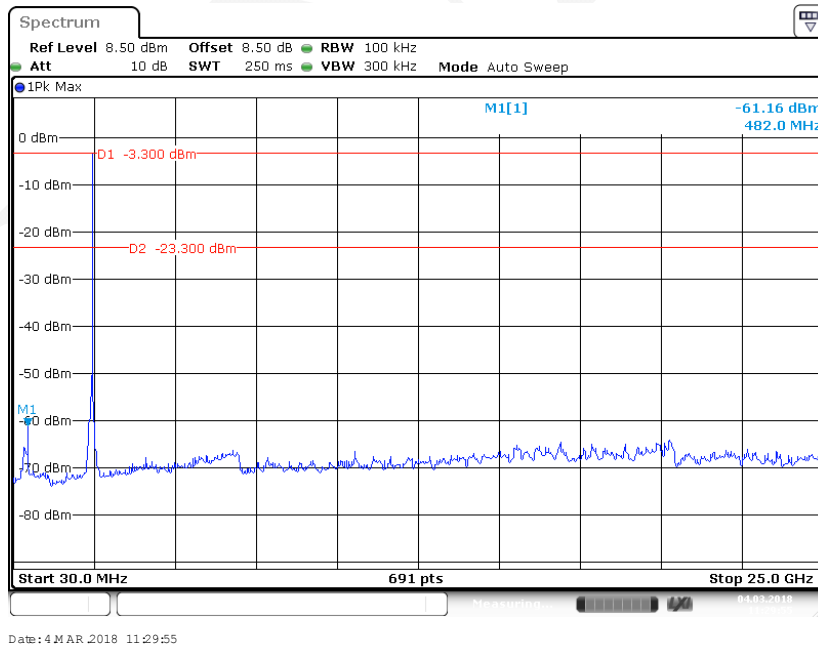


Date: 4 MAR 2018 11:29:03

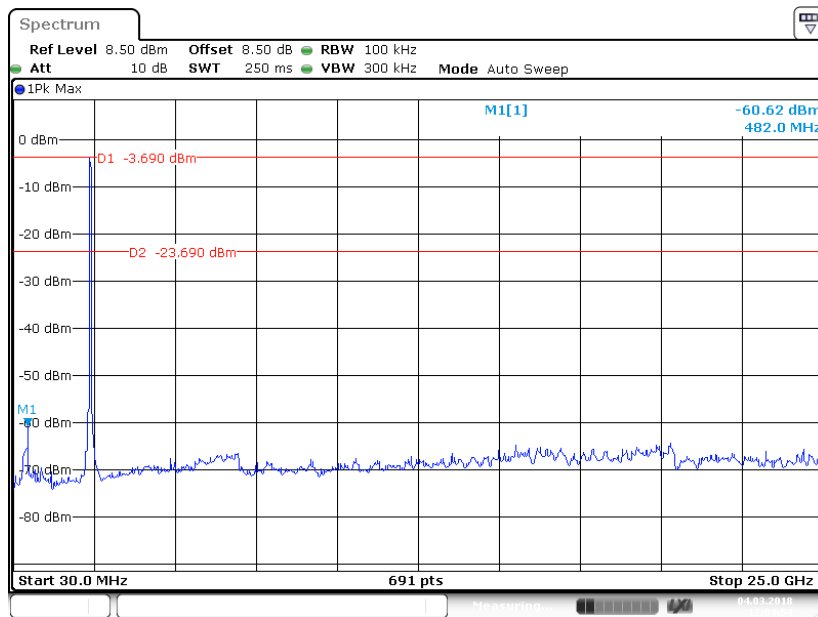
Chain0: 802.11g Middle Channel



Chain0: 802.11g High Channel

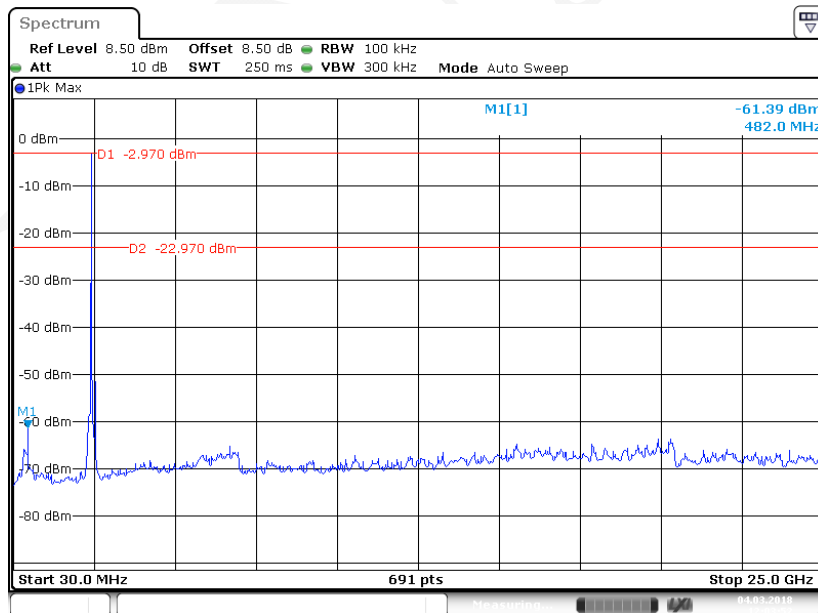


Chain0: 802.11n-HT20 Low Channel



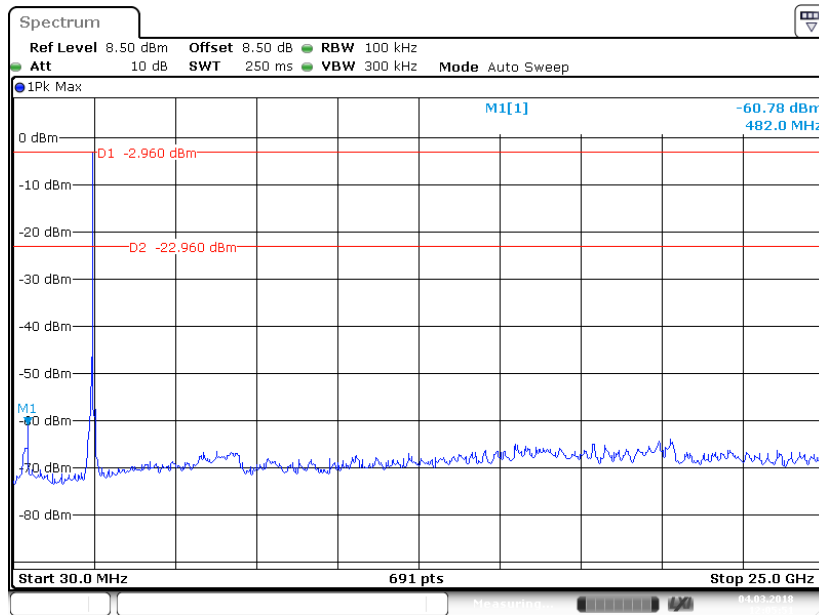
Date: 4 MAR 2018 12:04:54

Chain0: 802.11n-HT20 Middle Channel

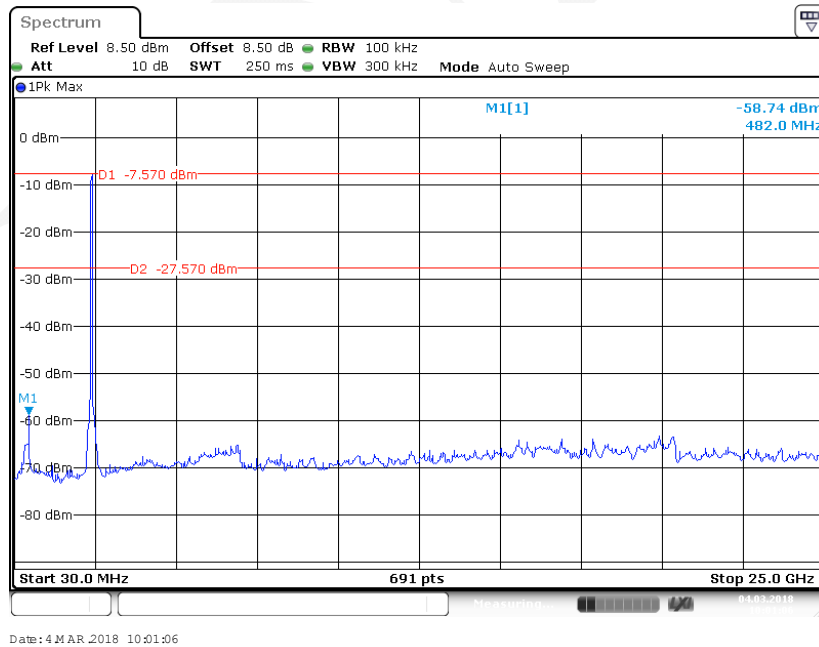


Date: 4 MAR 2018 12:03:53

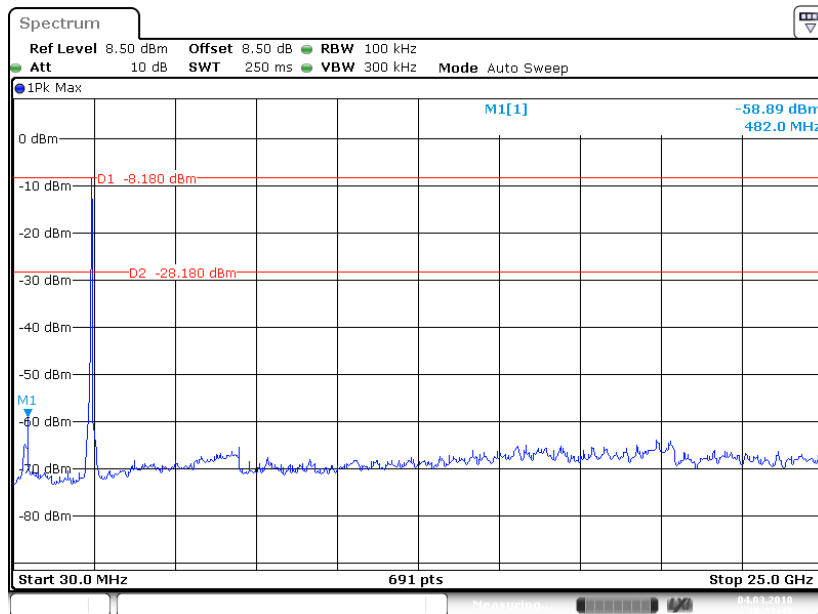
Chain0: 802.11n-HT20 High Channel



Chain0: 802.11n-HT40 Low Channel

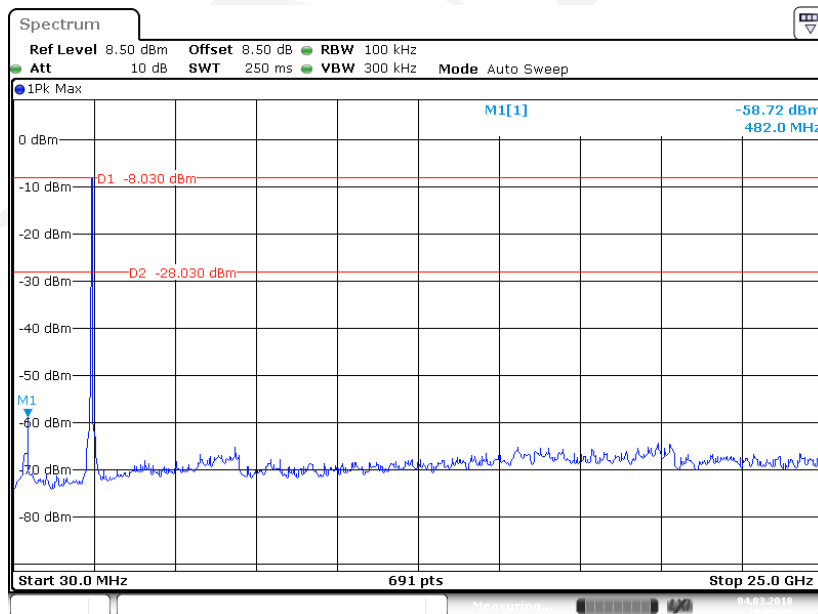


Chain0: 802.11n-HT40 Middle Channel



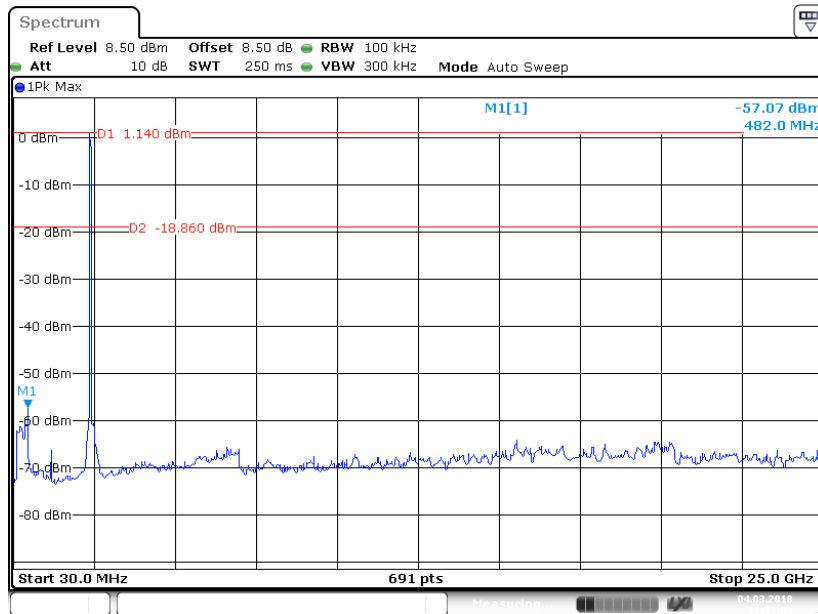
Date: 4 MAR 2018 10:21:48

Chain0: 802.11n-HT40 High Channel



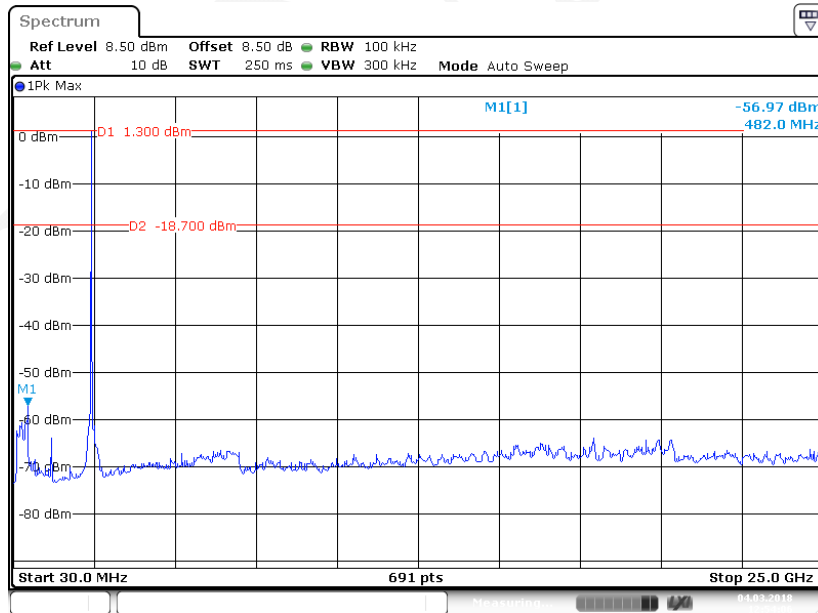
Date: 4 MAR 2018 10:20:30

Chain1: 802.11b Low Channel



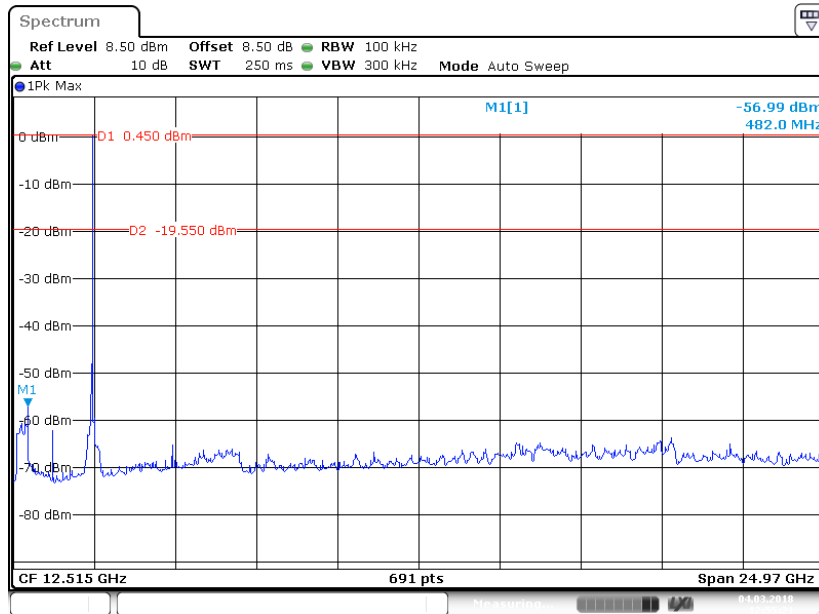
Date: 4 MAR 2018 12:53:09

Chain1: 802.11b Middle Channel

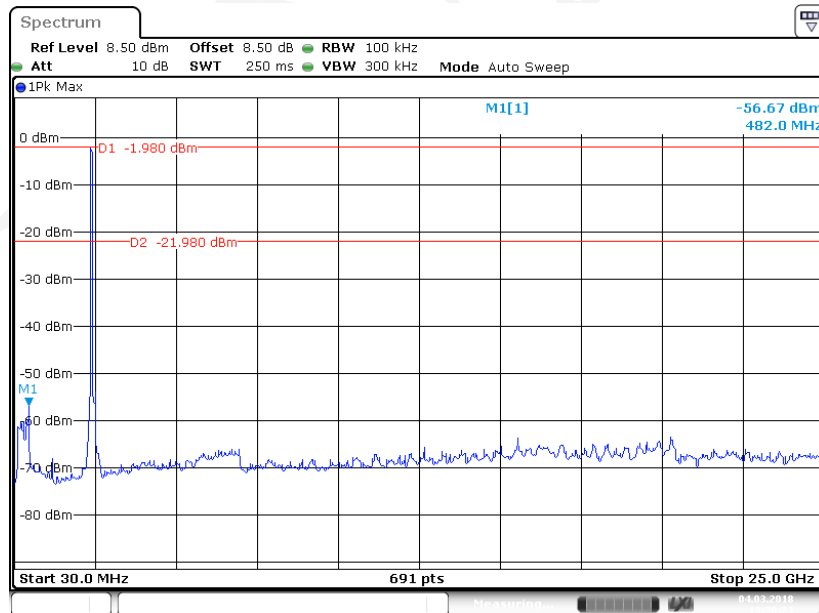


Date: 4 MAR 2018 12:54:06

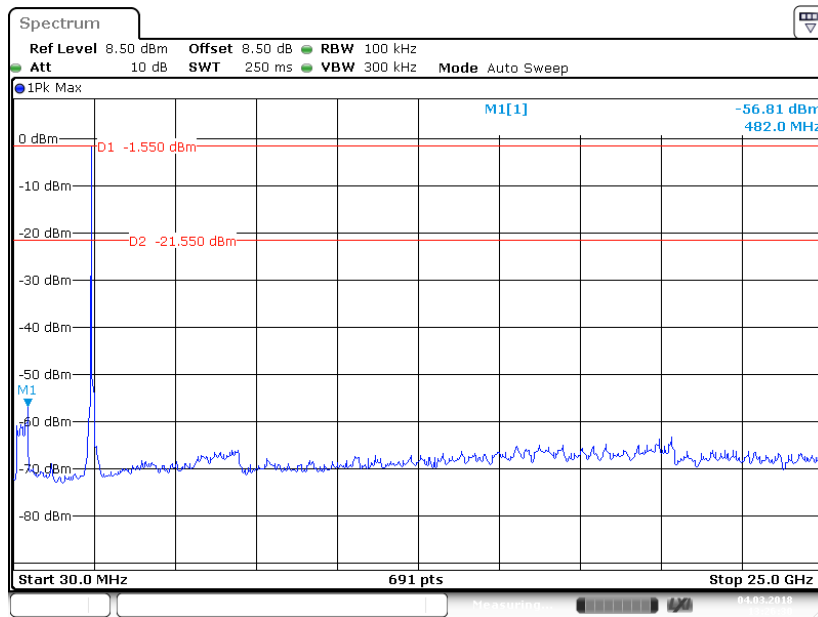
Chain1: 802.11b High Channel



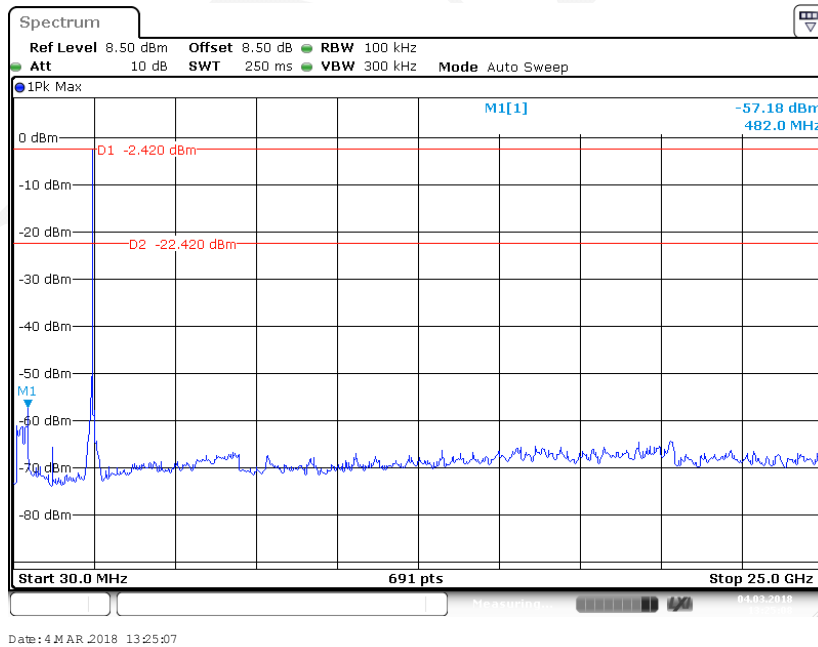
Chain1: 802.11g Low Channel



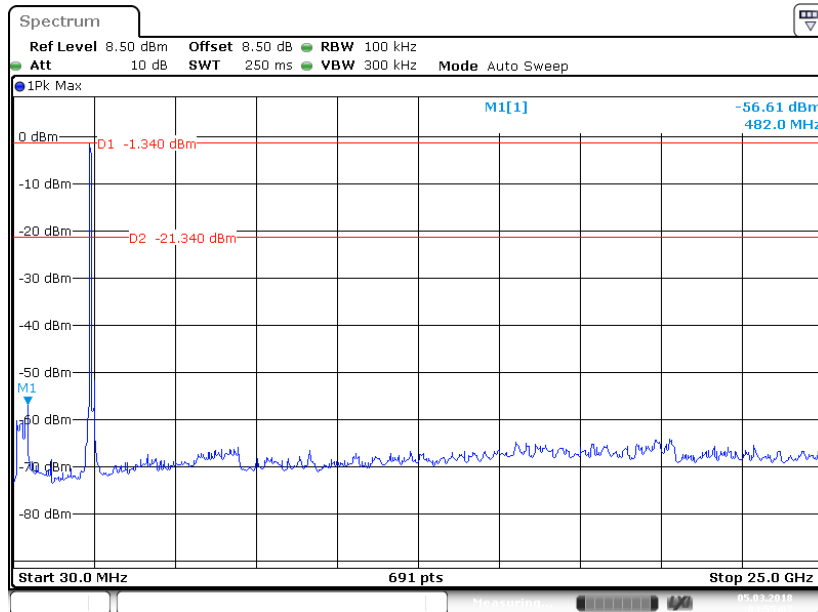
Chain1: 802.11g Middle Channel



Chain1: 802.11g High Channel

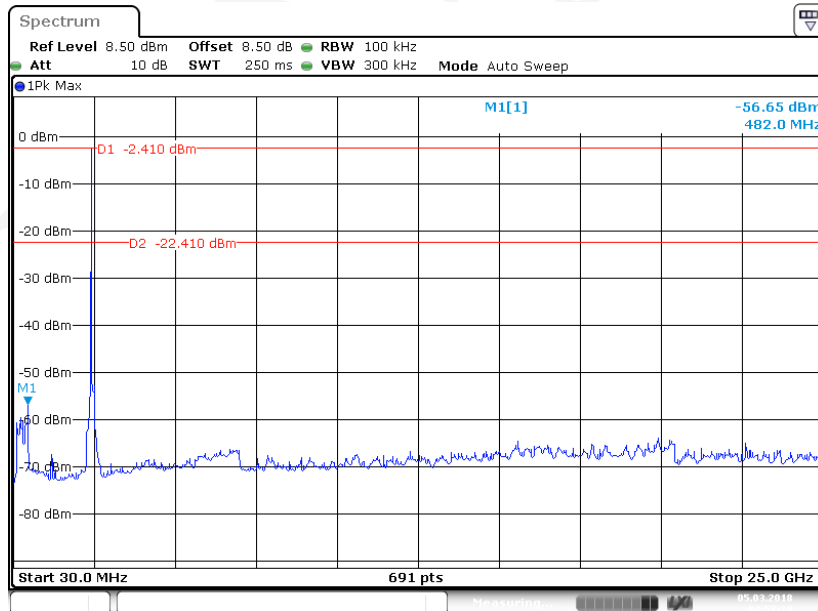


Chain1: 802.11n-HT20 Low Channel



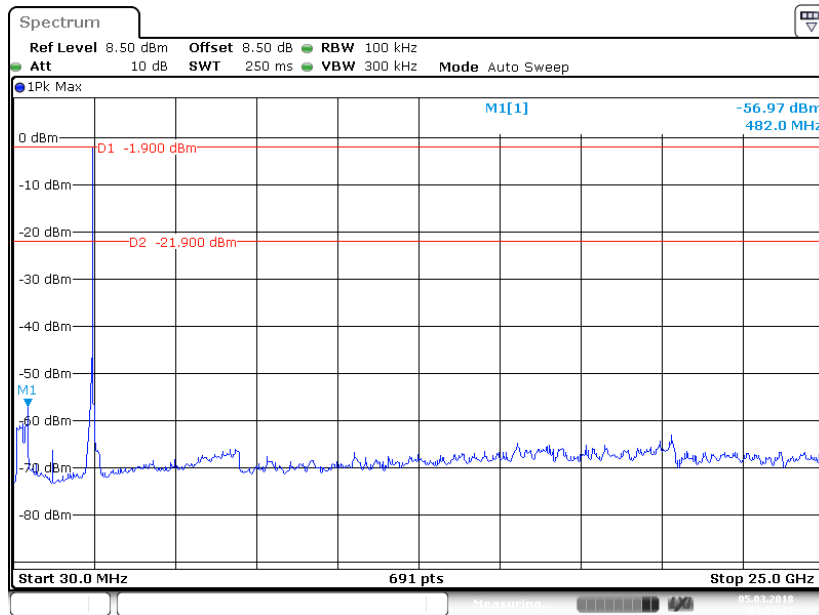
Date: 5 MAR 2018 04:55:07

Chain1: 802.11n-HT20 Middle Channel



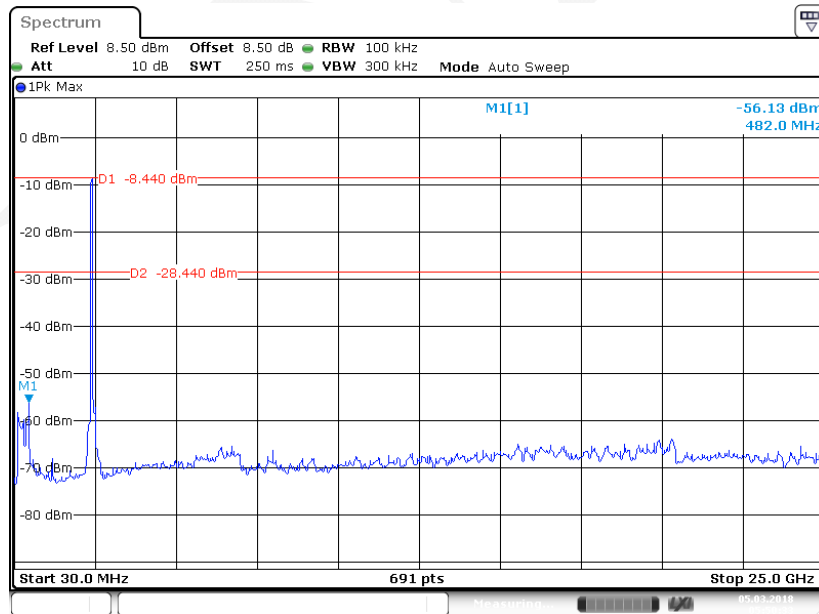
Date: 5 MAR 2018 04:57:21

Chain1: 802.11n-HT20 High Channel



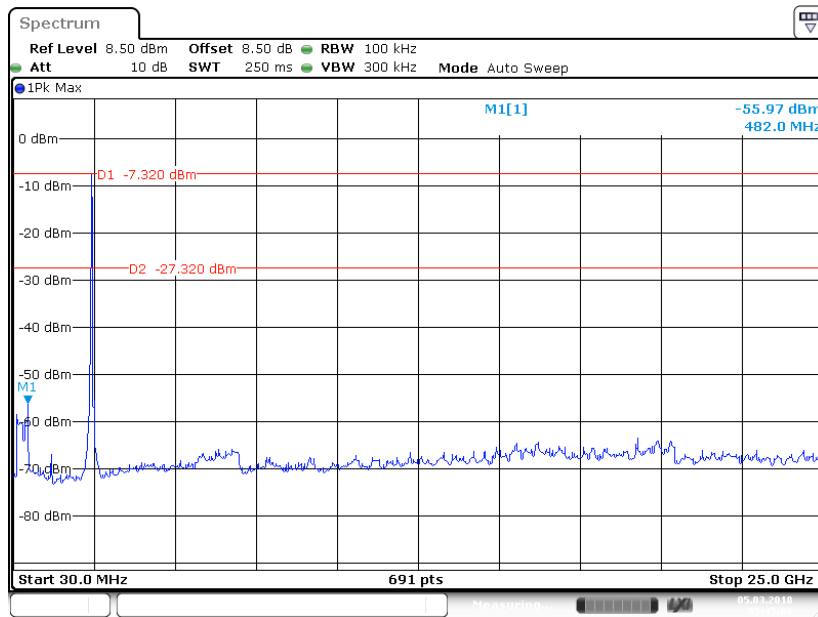
Date: 5 MAR 2018 04:53:41

Chain1: 802.11n-HT40 Low Channel

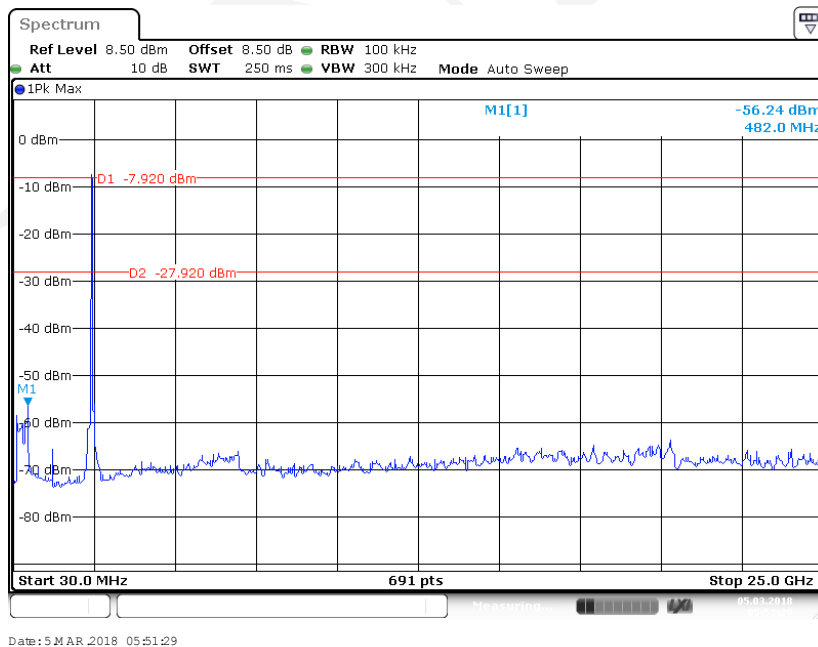


Date: 5 MAR 2018 05:50:34

Chain1: 802.11n-HT40 Middle Channel



Chain1: 802.11n-HT40 High Channel



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

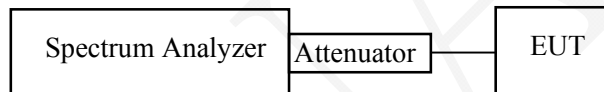
Applicable Standard

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

Test Procedure

According to KDB558074 D01 DTS Meas Guidance v04 sub-clause 8.1

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Test Data

Environmental Conditions

Temperature:	24.2°C
Relative Humidity:	50 %
ATM Pressure:	101.3 kPa

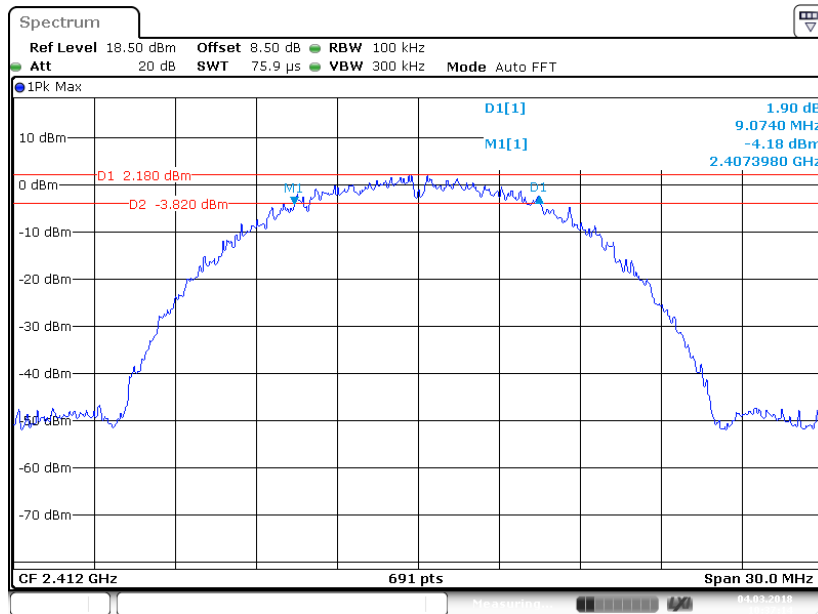
The testing was performed by Max Min on 2018-03-04 to 2018-03-05.

Test Result: Pass.

EUT operation mode: Transmitting

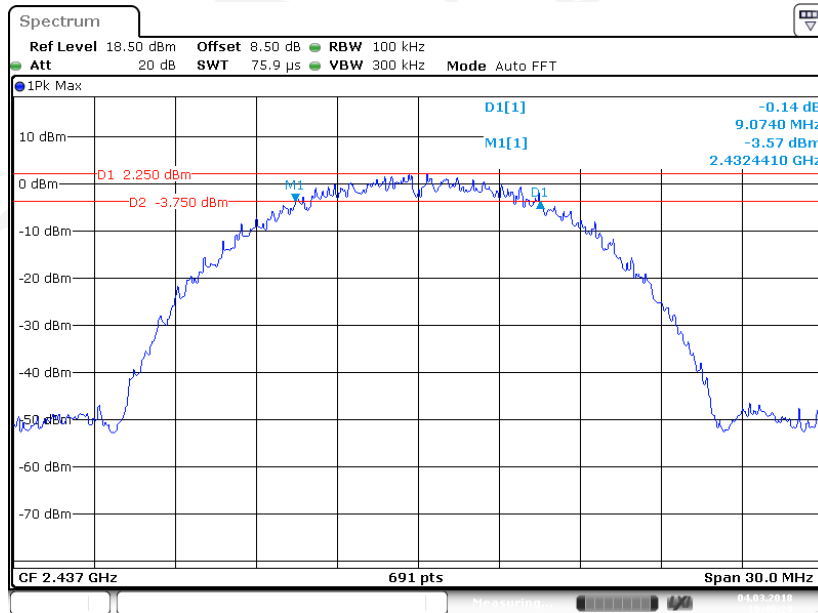
Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)		Limit (kHz)
		Chain0	Chain1	
802.11b mode				
Low	2412	9.07	9.55	≥500
Middle	2437	9.07	9.60	≥500
High	2462	9.07	9.51	≥500
802.11g mode				
Low	2412	16.28	15.02	≥500
Middle	2437	16.28	15.41	≥500
High	2462	16.28	15.41	≥500
802.11n-HT20 mode				
Low	2412	16.02	15.41	≥500
Middle	2437	16.06	15.41	≥500
High	2462	16.02	15.11	≥500
802.11n-HT40 mode				
Low	2422	35.08	35.08	≥500
Middle	2437	35.09	35.10	≥500
High	2452	35.09	35.08	≥500

Chain0: 802.11b Low Channel



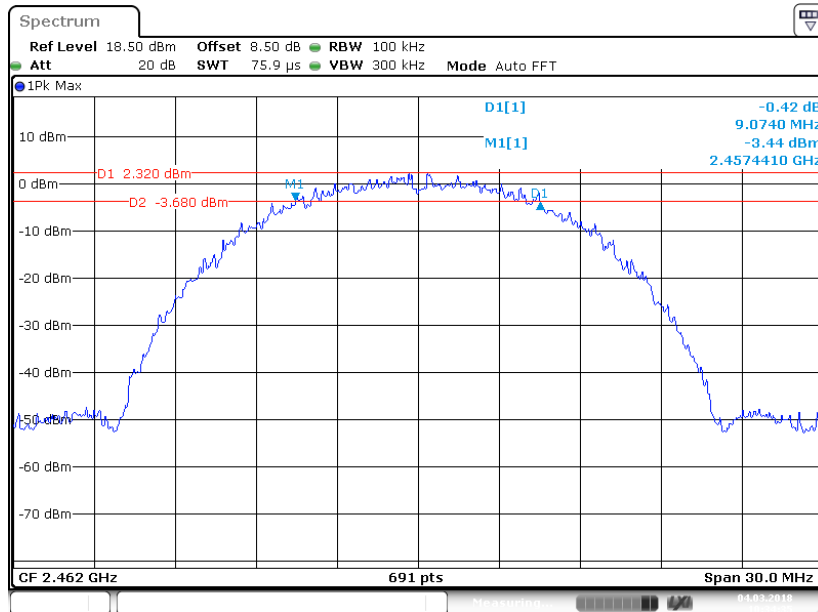
Date: 4 MAR 2018 10:37:15

Chain0: 802.11b Middle Channel



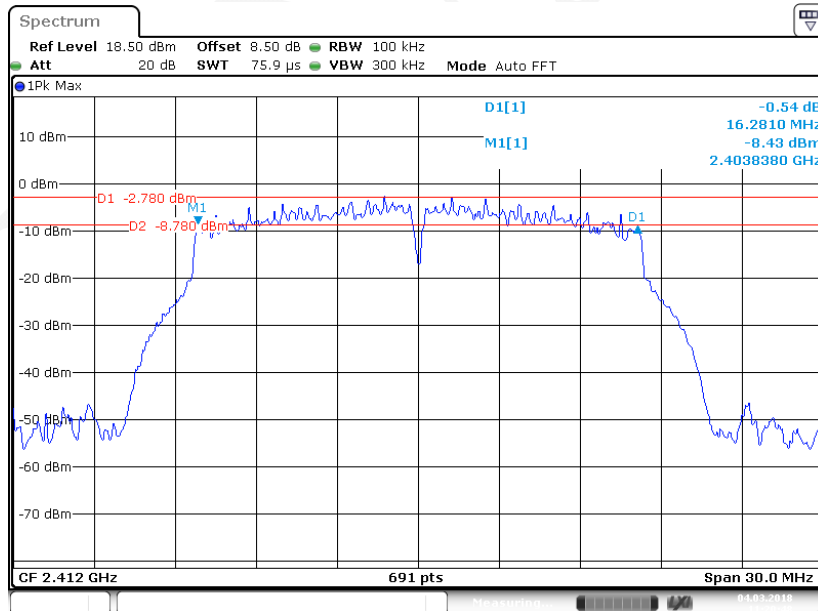
Date: 4 MAR 2018 10:40:30

Chain0: 802.11b High Channel



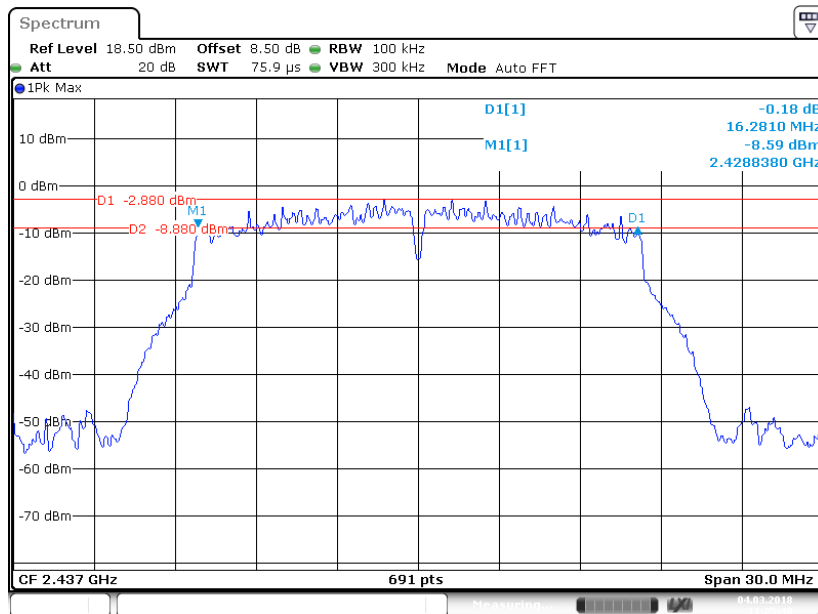
Date: 4 MAR 2018 10:34:35

Chain0: 802.11g Low Channel

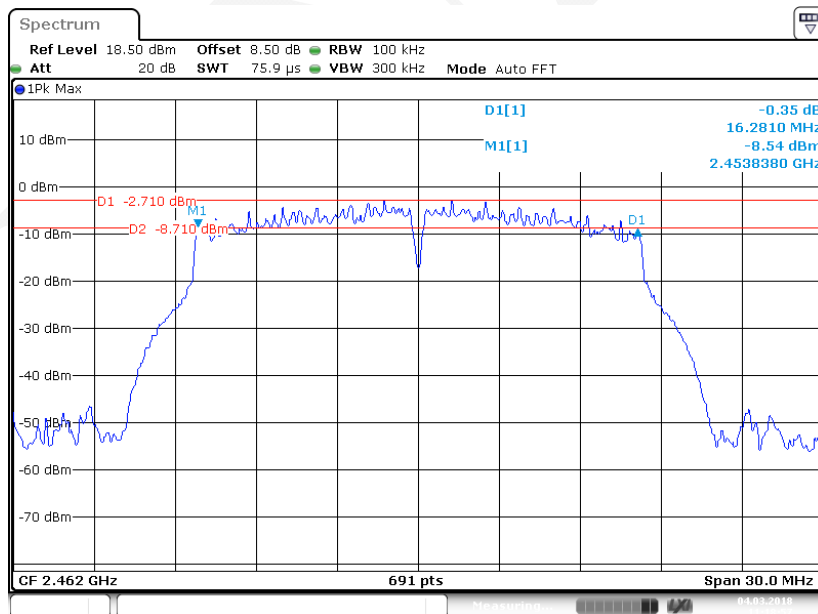


Date: 4 MAR 2018 11:20:47

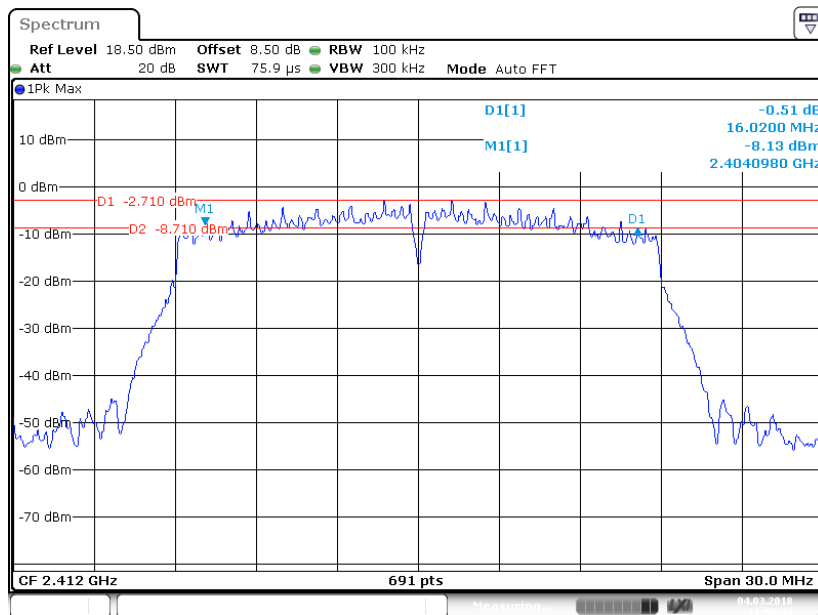
Chain0: 802.11g Middle Channel



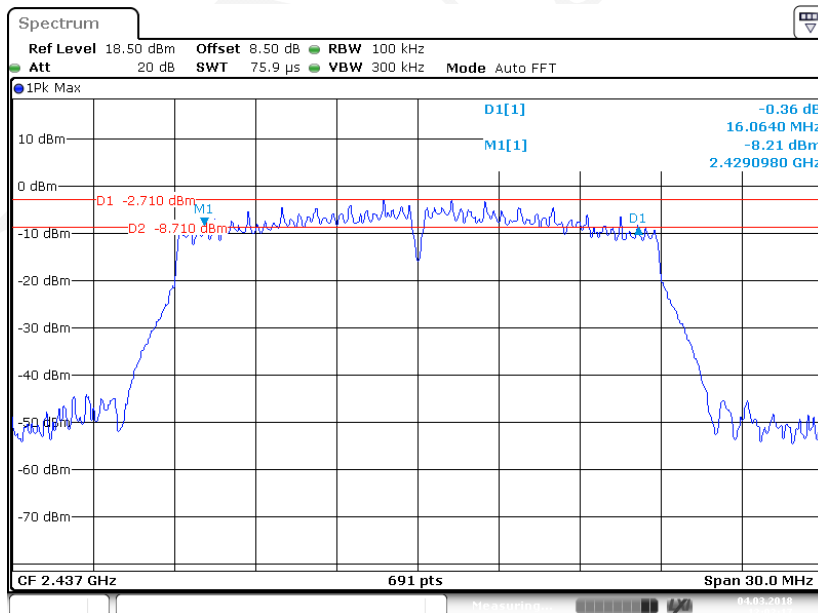
Chain0: 802.11g High Channel



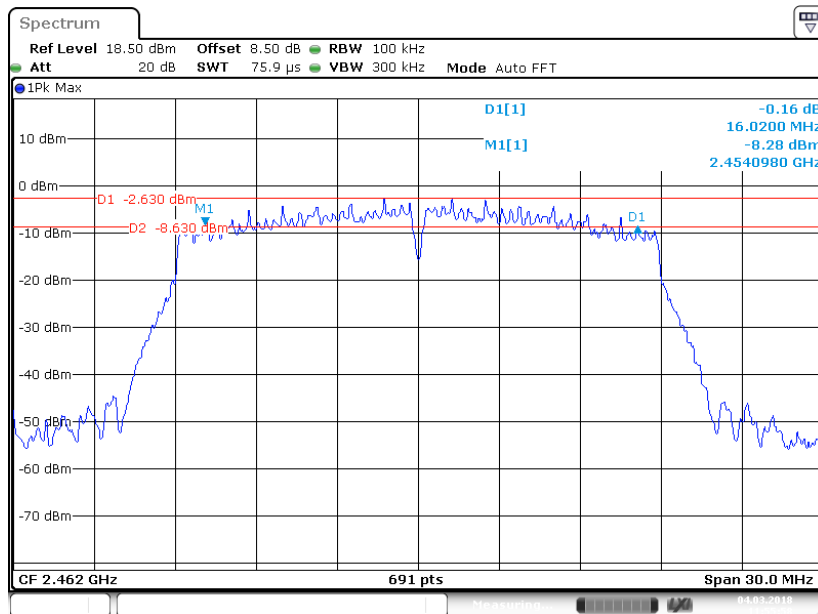
Chain0: 802.11n-HT20 Low Channel



Chain0: 802.11n-HT20 Middle Channel

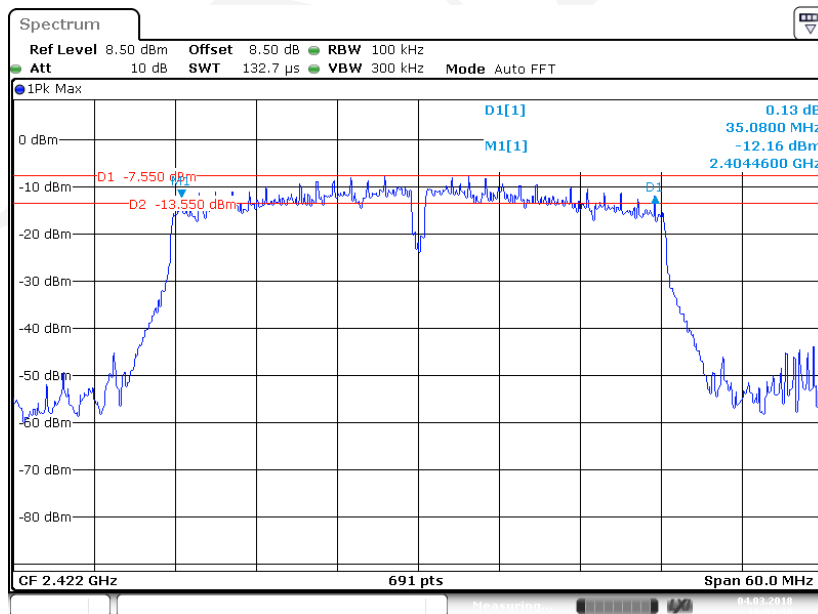


Chain0: 802.11n-HT20 High Channel



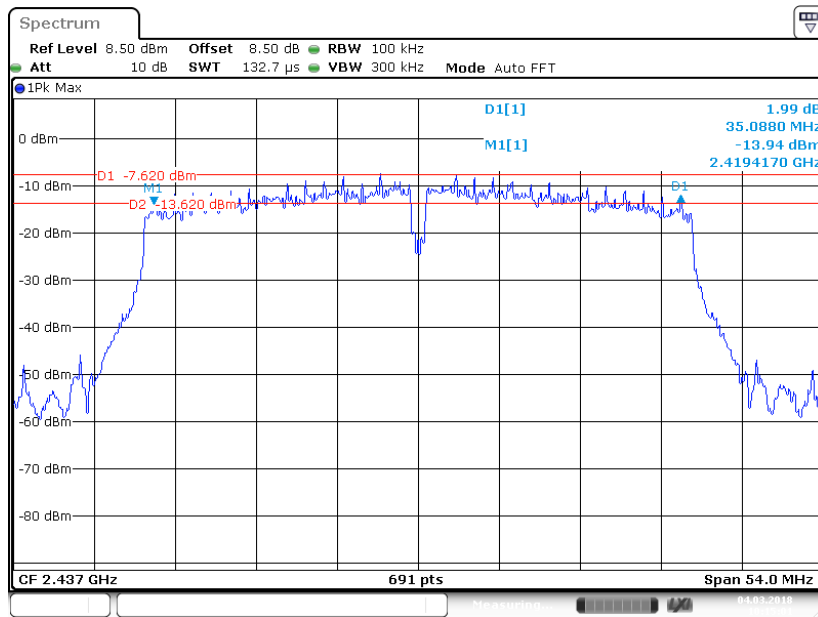
Date: 4 MAR 2018 11:55:58

Chain0: 802.11n-HT40 Low Channel



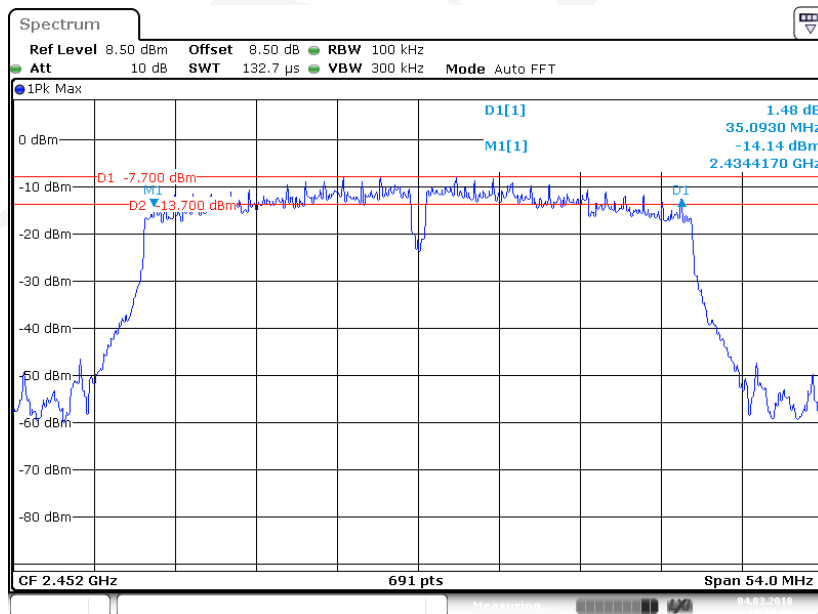
Date: 4 MAR 2018 10:03:31

Chain0: 802.11n-HT40 Middle Channel



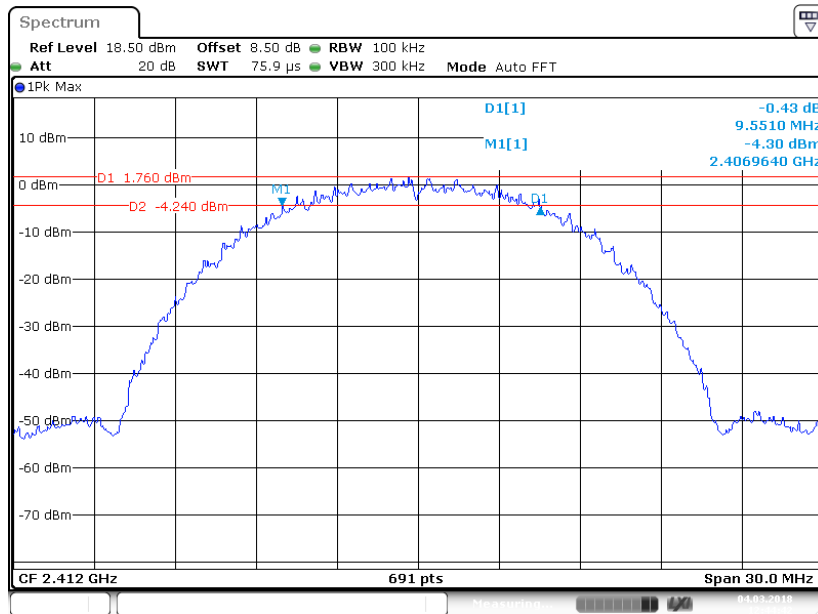
Date: 4 MAR 2018 10:15:02

Chain0: 802.11n-HT40 High Channel



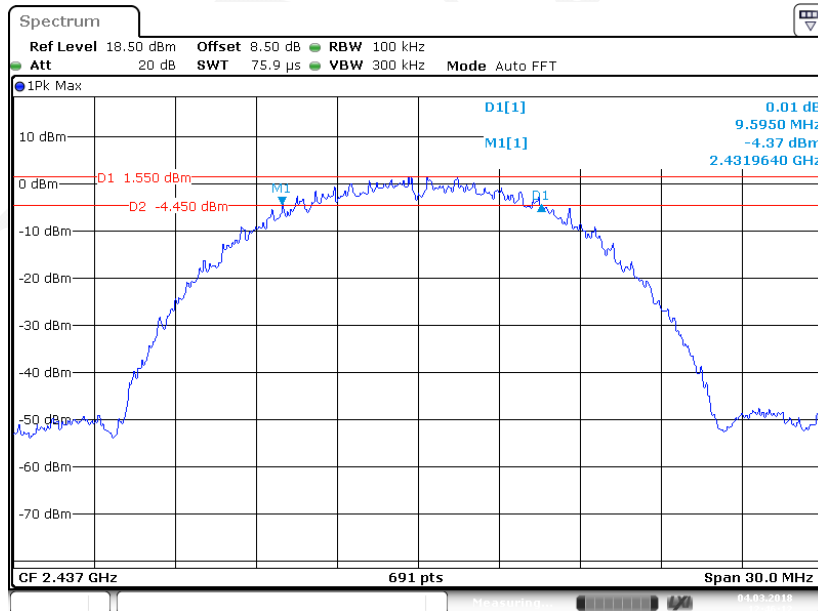
Date: 4 MAR 2018 10:19:26

Chain1: 802.11b Low Channel



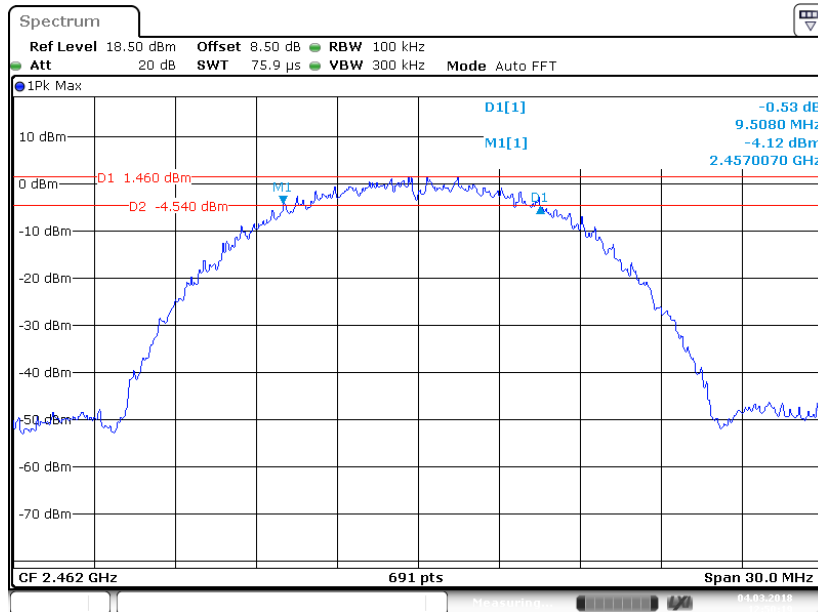
Date: 4 MAR 2018 12:44:43

Chain1: 802.11b Middle Channel



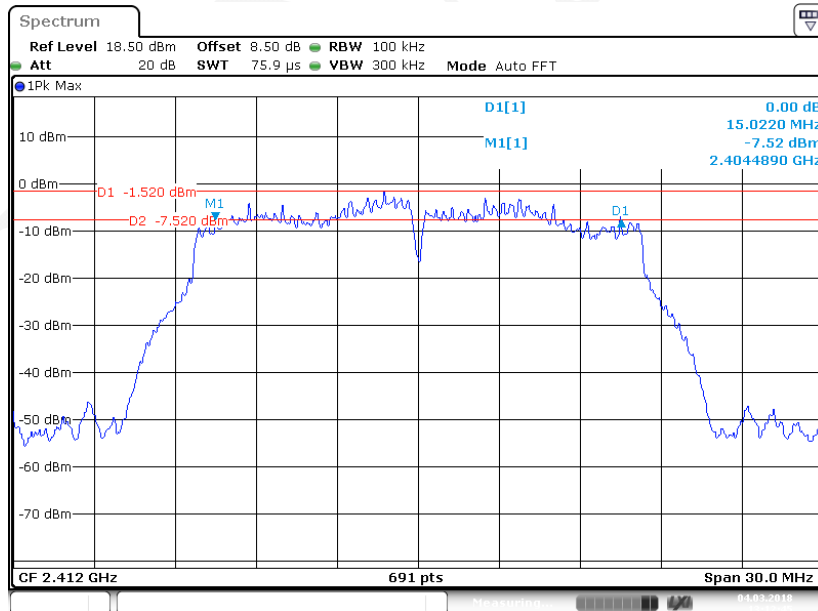
Date: 4 MAR 2018 12:46:12

Chain1: 802.11b High Channel



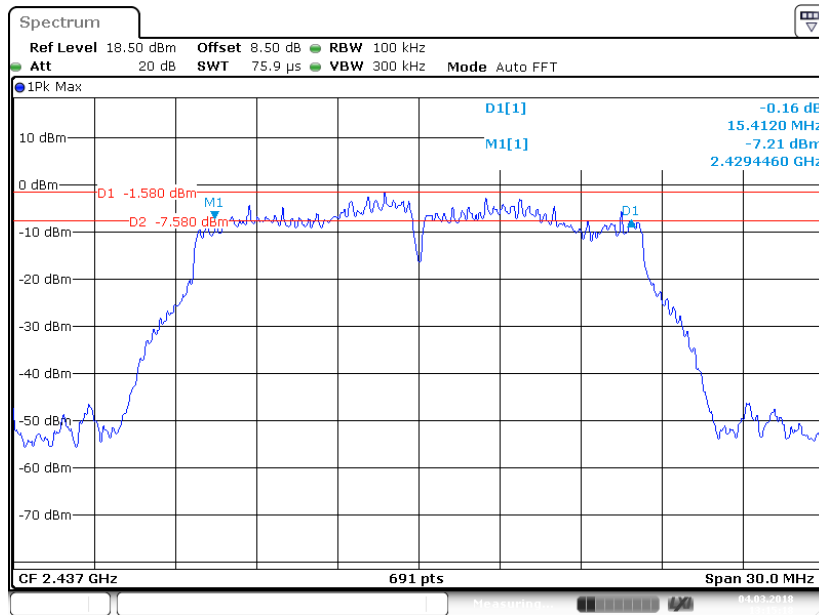
Date: 4 MAR 2018 12:50:19

Chain1: 802.11g Low Channel

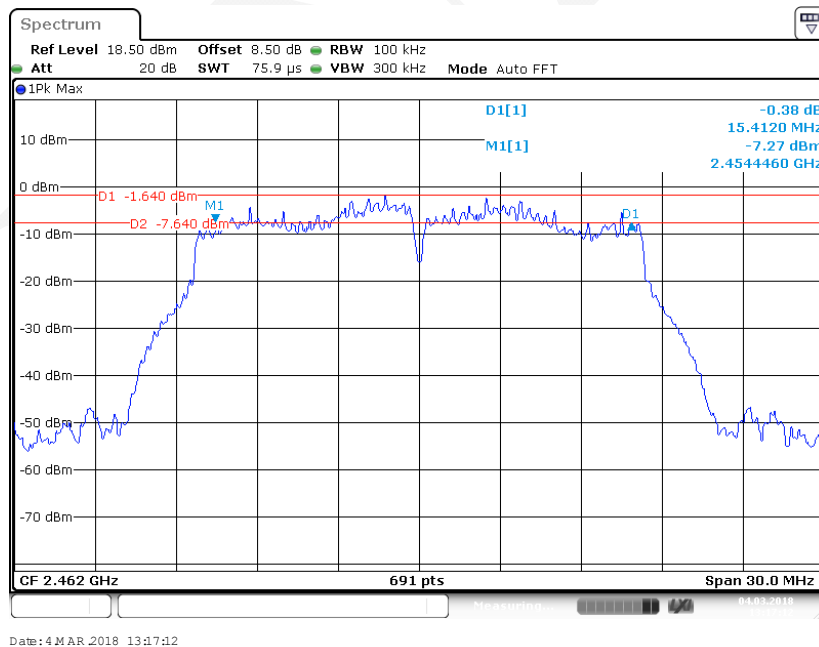


Date: 4 MAR 2018 13:12:46

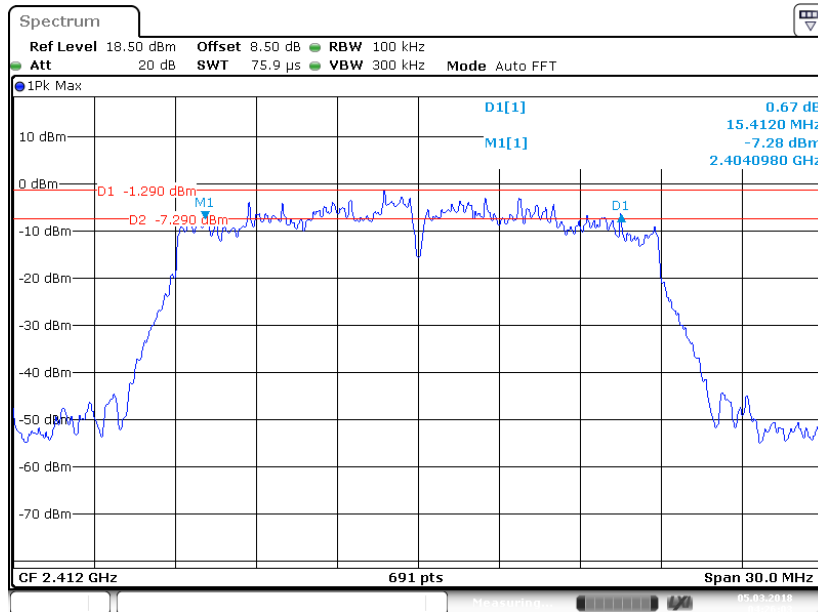
Chain1: 802.11g Middle Channel



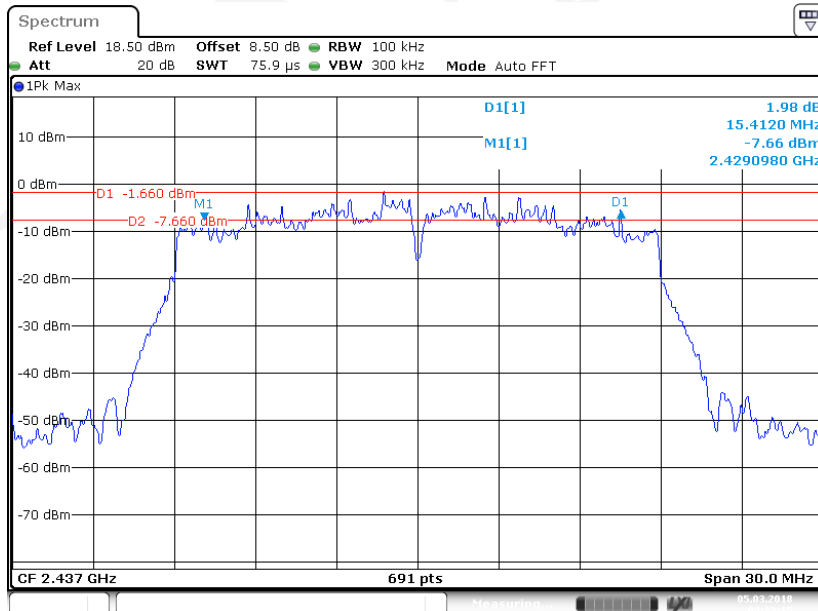
Chain1: 802.11g High Channel



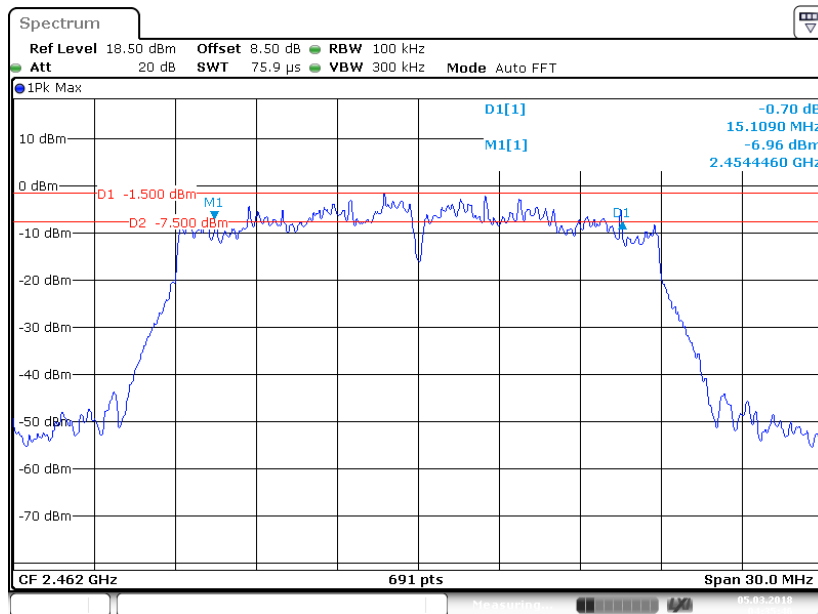
Chain1: 802.11n-HT20 Low Channel



Chain1: 802.11n-HT20 Middle Channel

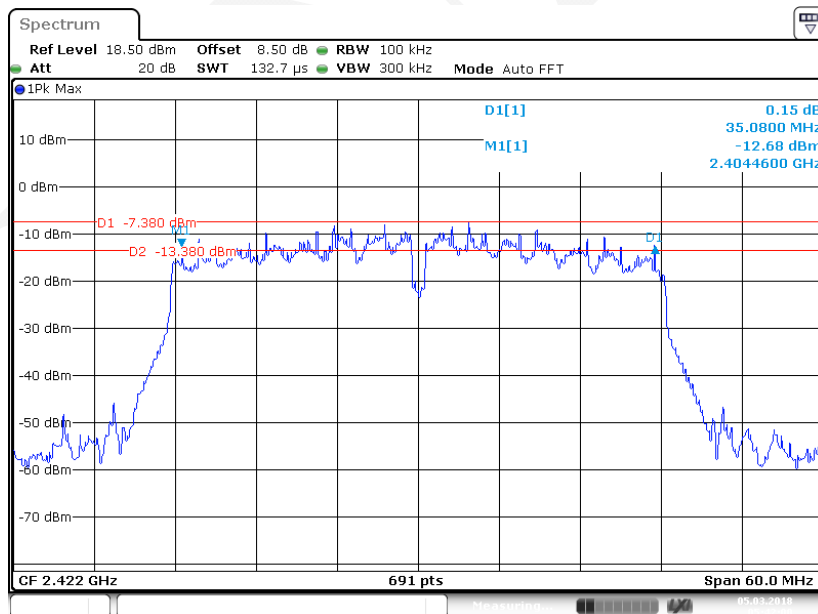


Chain1: 802.11n-HT20 High Channel



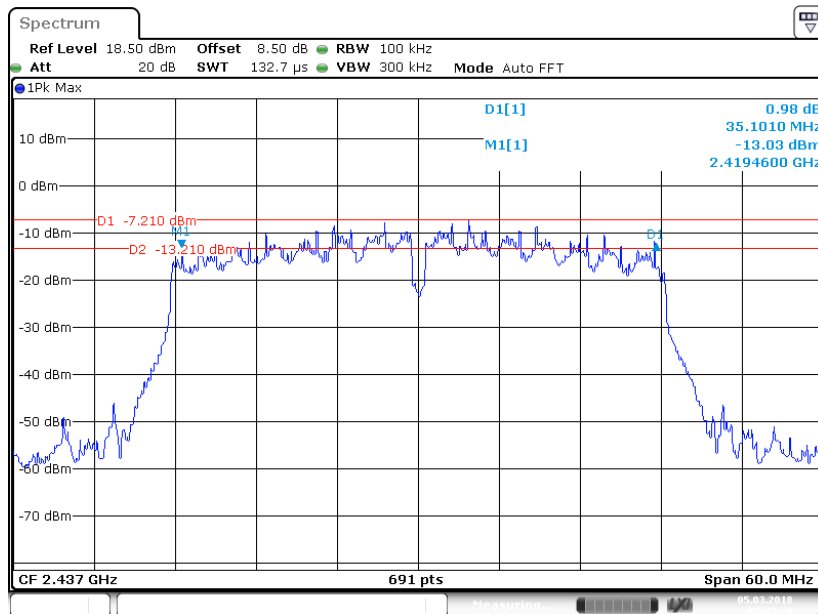
Date: 5 MAR 2018 04:35:47

Chain1: 802.11n-HT40 Low Channel

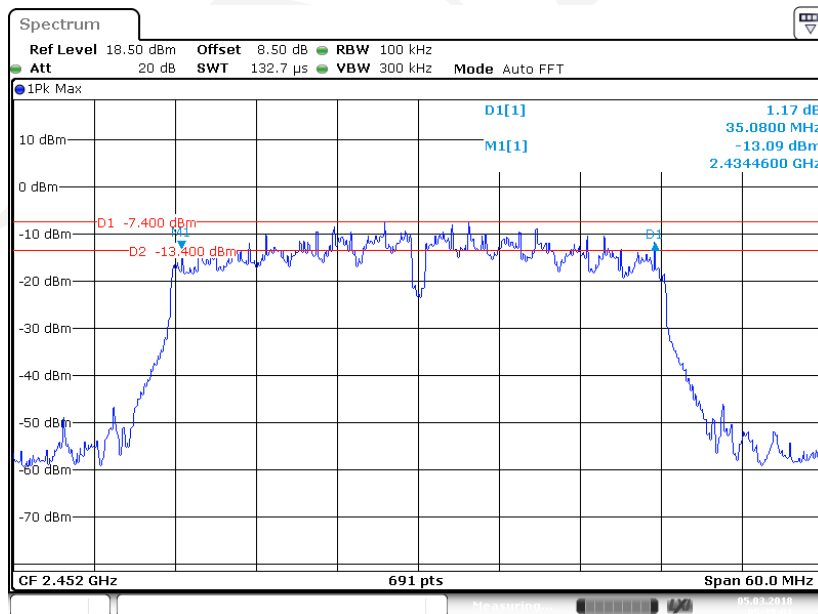


Date: 5 MAR 2018 05:42:00

Chain1: 802.11n-HT40 Middle Channel



Chain1: 802.11n-HT40 High Channel



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

According to KDB558074 D01 DTS Meas Guidance v04

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:	24.2°C
Relative Humidity:	50 %
ATM Pressure:	101.3 kPa

The testing was performed by Max Min on 2018-03-04 to 2018-03-05.

EUT operation mode: Transmitting

Test mode	Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)			Limit (dBm)	Result
			Chain0	Chain1	Total		
802.11b	Low	2412	16.94	16.65	/	30	Pass
	Middle	2437	16.87	16.45	/	30	Pass
	High	2462	16.88	15.94	/	30	Pass
802.11g	Low	2412	16.36	16.66	/	30	Pass
	Middle	2437	16.42	16.60	/	30	Pass
	High	2462	16.38	16.57	/	30	Pass
802.11n-HT20	Low	2412	16.25	16.60	19.44	30	Pass
	Middle	2437	16.33	16.52	19.44	30	Pass
	High	2462	16.31	16.54	19.44	30	Pass
802.11n-HT40	Low	2422	13.94	13.45	16.71	30	Pass
	Middle	2437	13.95	13.47	16.73	30	Pass
	High	2452	13.70	13.45	16.59	30	Pass

Note: The total output power= $10\log_{10}(10^{(Chain\ 0/10)} + 10^{(Chain\ 1/10)})$

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

According to KDB558074 D01 DTS Meas Guidance v04 sub-clause 13.2 and ANSI C63.10-2013 clause 6.10.

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

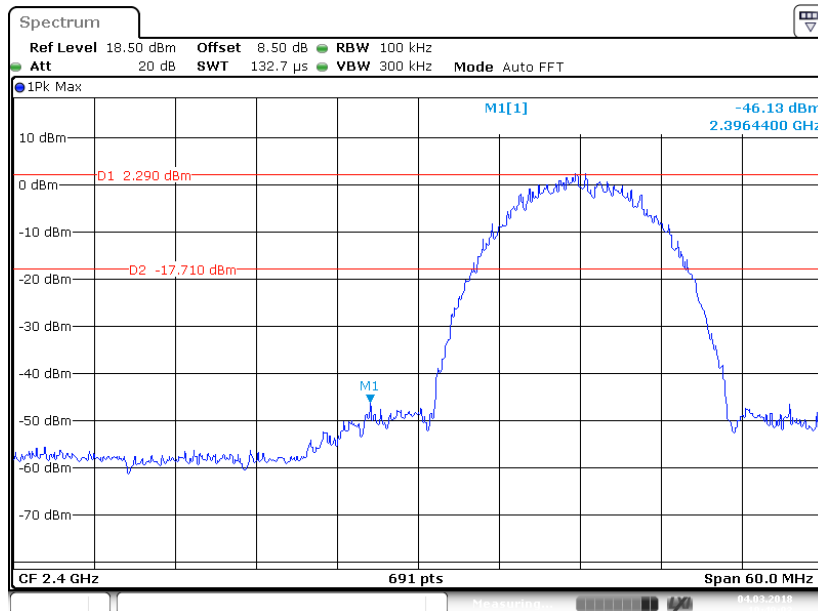
Temperature:	24.2°C
Relative Humidity:	50 %
ATM Pressure:	101.3 kPa

The testing was performed by Max Min on 2018-03-04 to 2018-03-05.

Test Result: *Compliance*

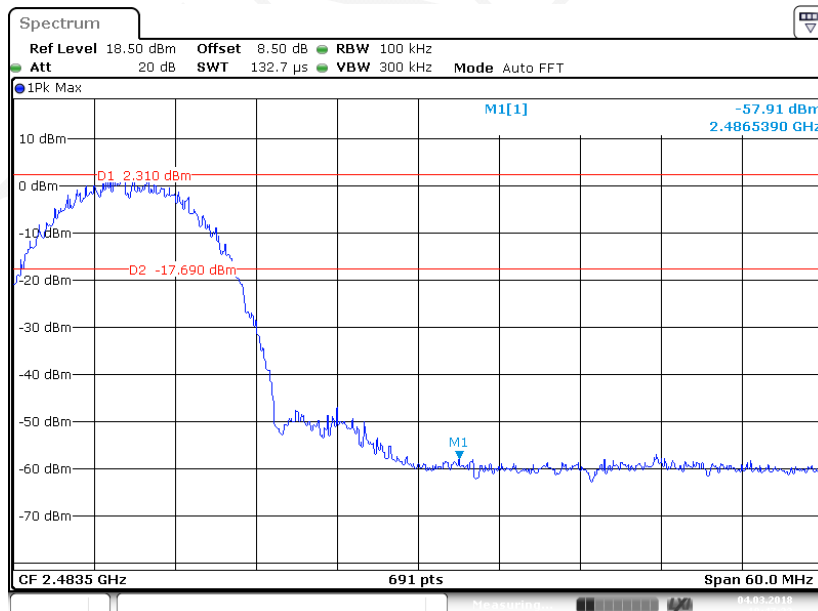
Band Edge

Chain0: 802.11b Mode Left Side



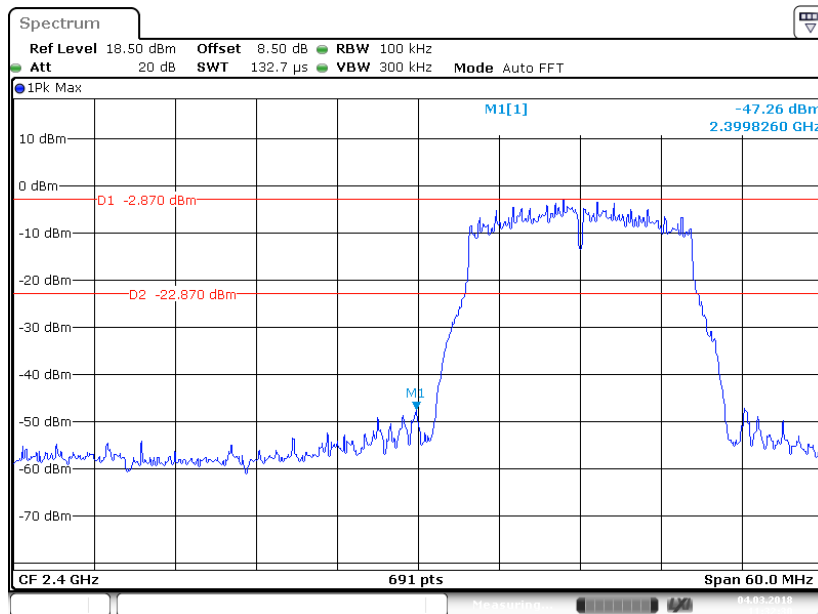
Date: 4 MAR 2018 10:49:04

Chain0: 802.11b Mode Right Side

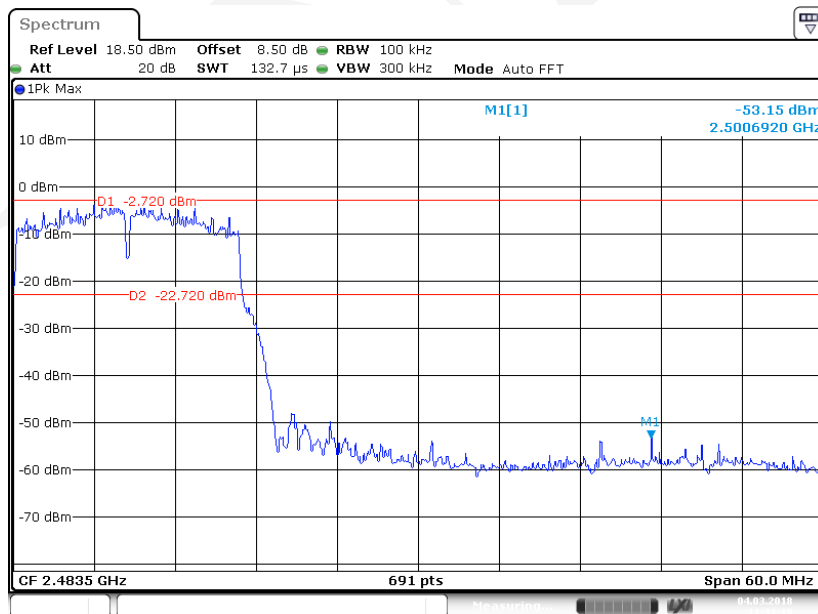


Date: 4 MAR 2018 10:47:23

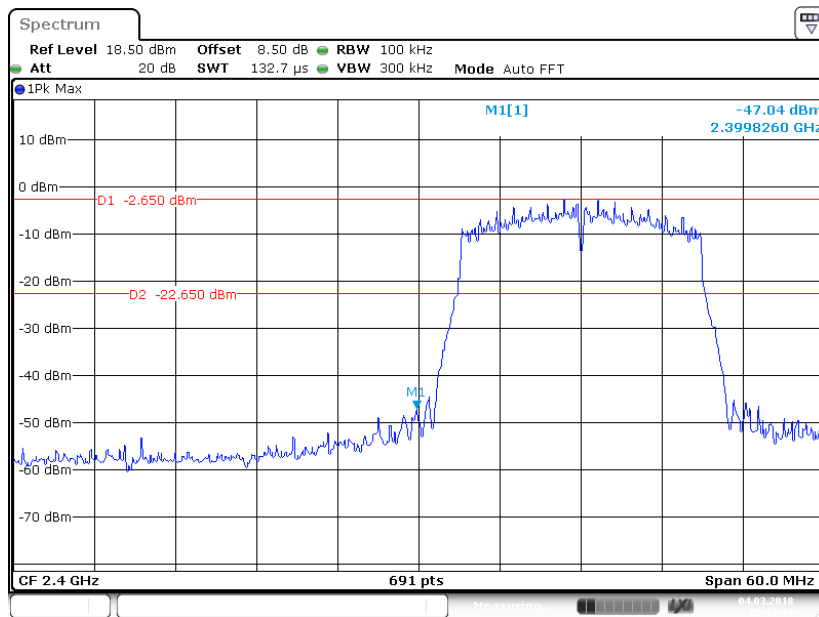
Chain0: 802.11g Mode Left Side



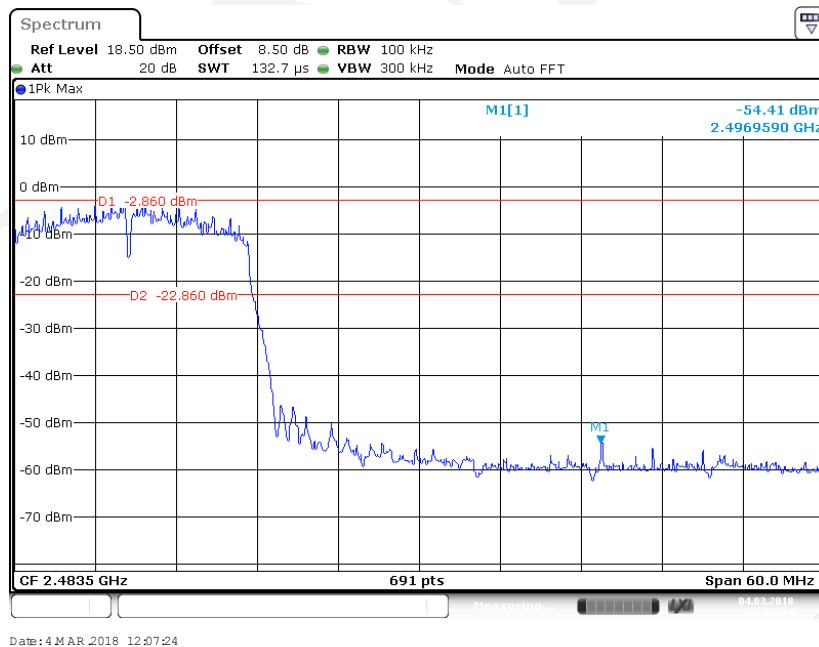
Chain0: 802.11g Mode Right Side



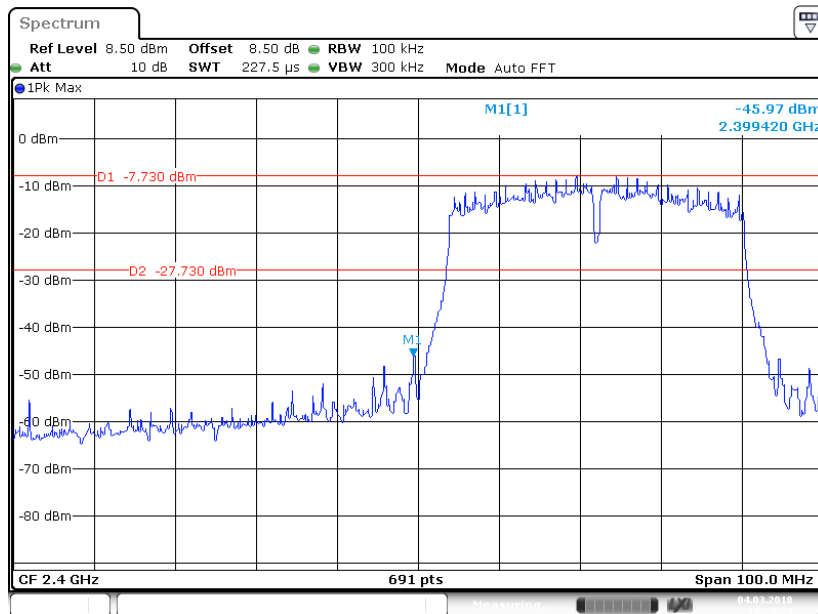
Chain0: 802.11n-HT20 Mode Left Side



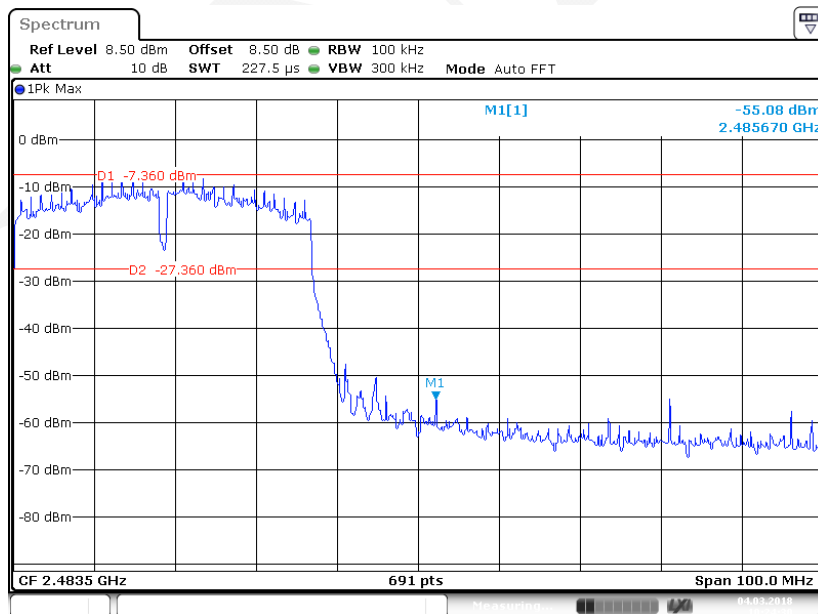
Chain0: 802.11n-HT20 Mode Right Side



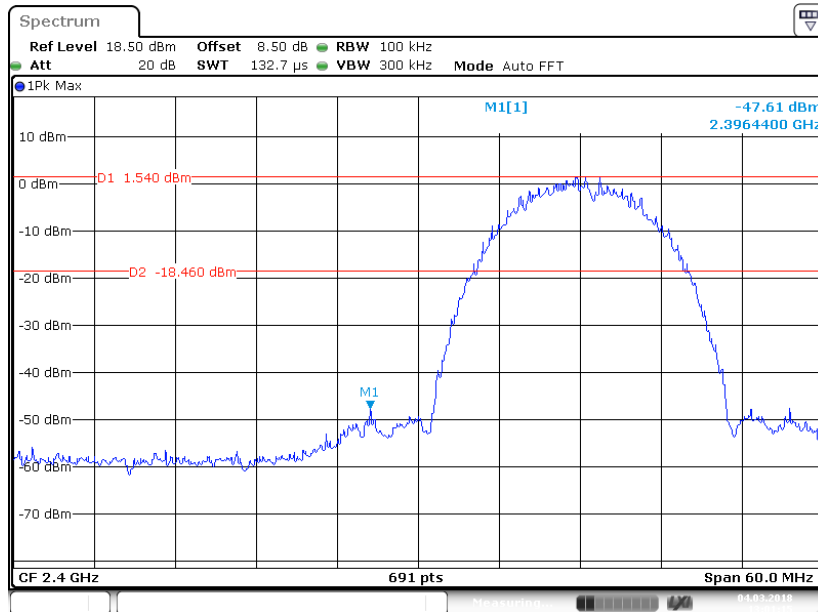
Chain0: 802.11n-HT40 Mode Left Side



Chain0: 802.11n-HT40 Mode Right Side

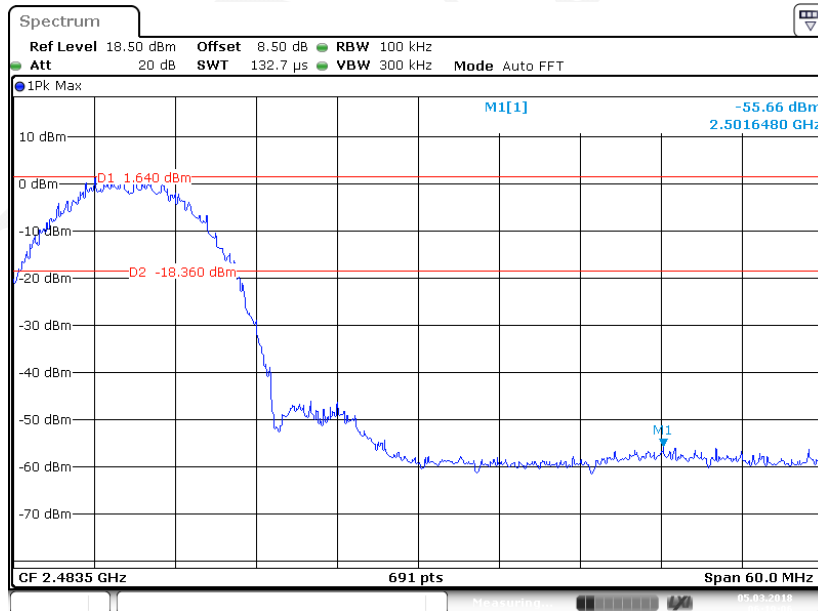


Chain1: 802.11b Mode Left Side



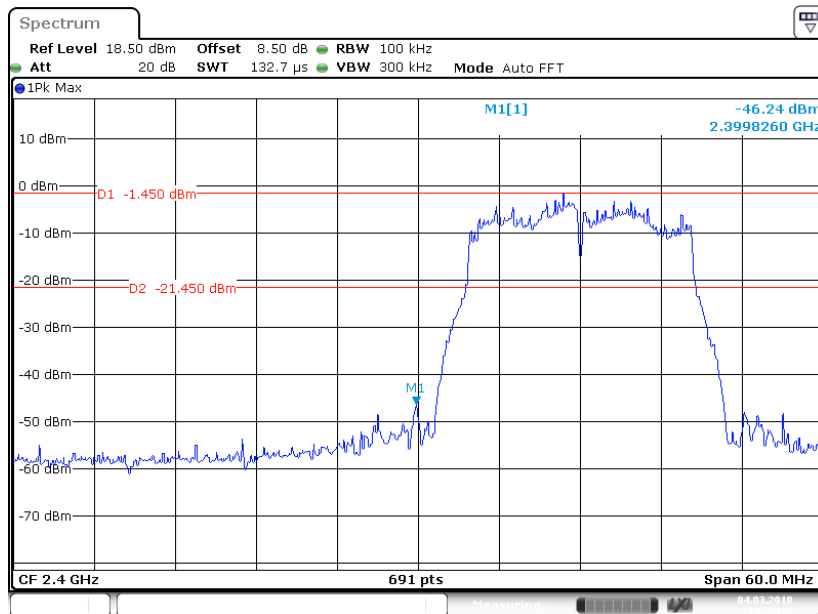
Date: 4 MAR 2018 13:01:15

Chain1: 802.11b Mode Right Side

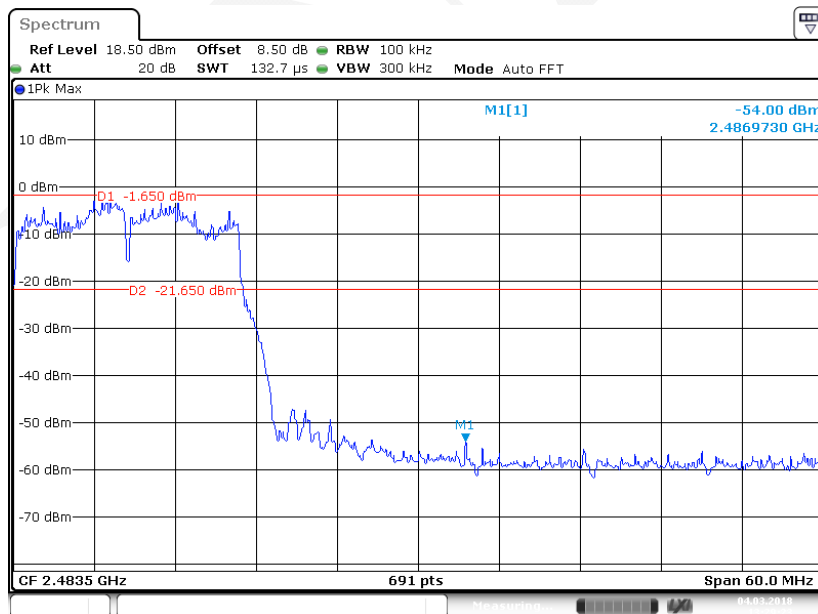


Date: 5 MAR 2018 06:19:07

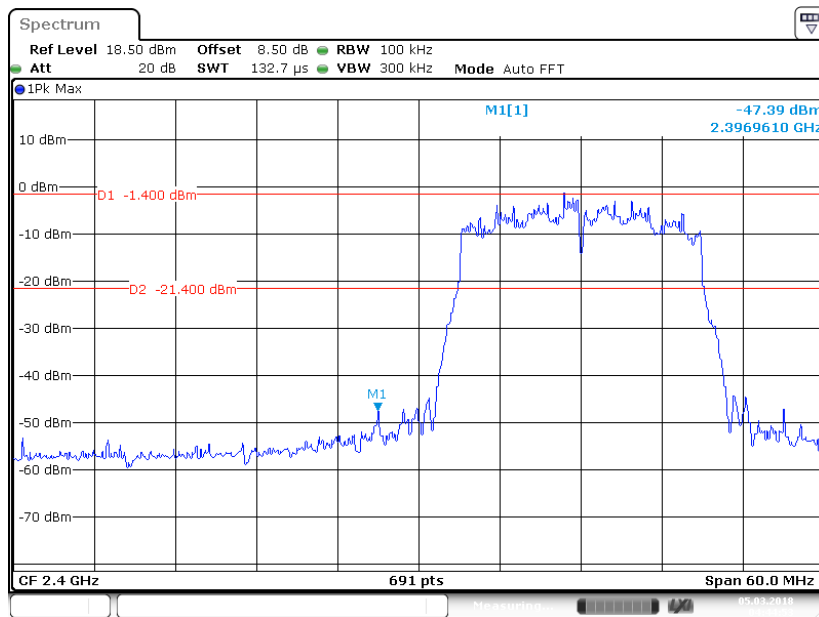
Chain1: 802.11g Mode Left Side



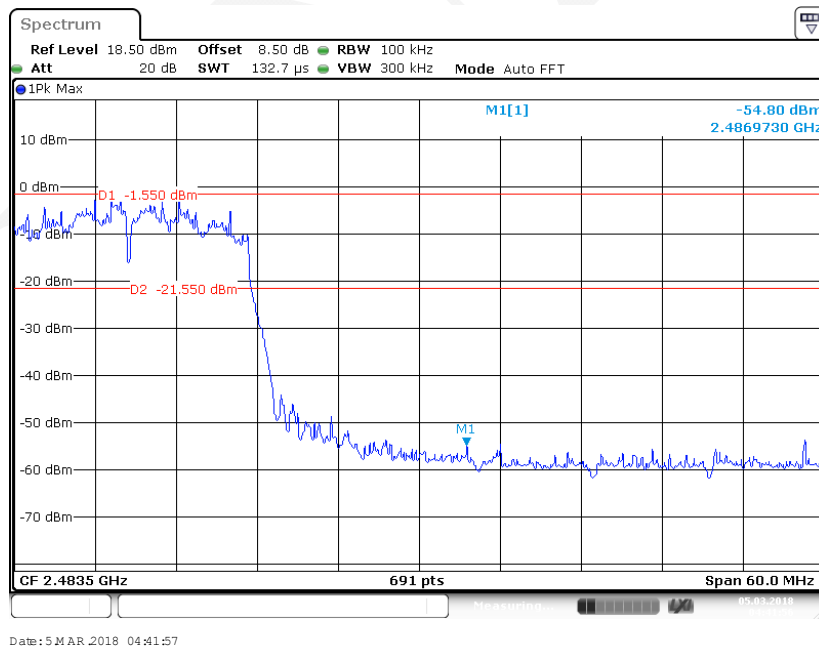
Chain1: 802.11g Mode Right Side



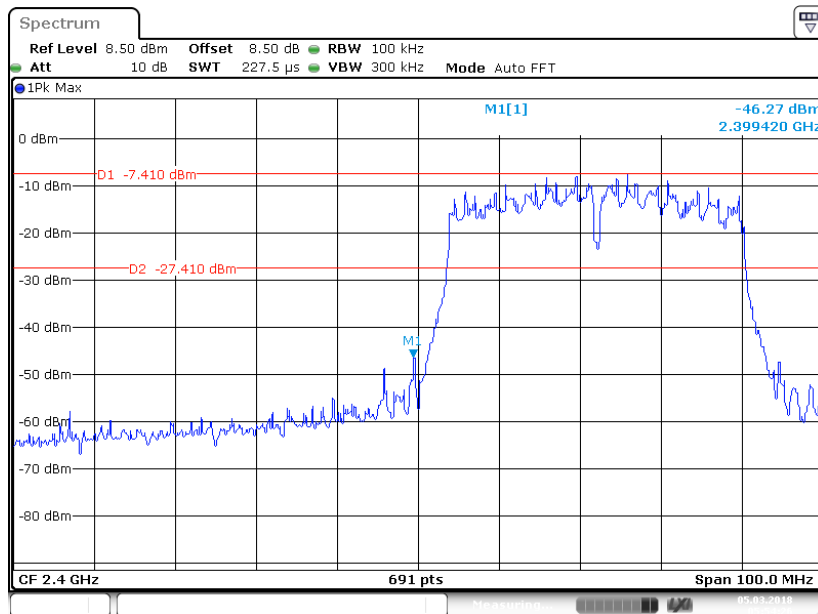
Chain1: 802.11n-HT20 Mode Left Side



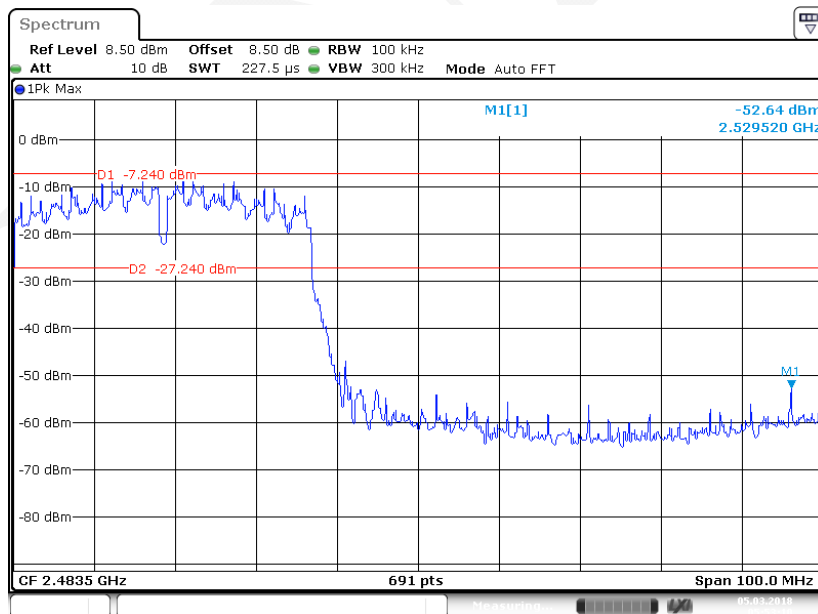
Chain1: 802.11n-HT20 Mode Right Side



Chain1: 802.11n-HT40 Mode Left Side



Chain1: 802.11n-HT40 Mode Right Side



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

According to KDB558074 D01 DTS Meas Guidance v04. sub-clause 10.2

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:	24.2°C
Relative Humidity:	50 %
ATM Pressure:	101.3 kPa

The testing was performed by Max Min on 2018-03-04 to 2018-03-05.

EUT operation mode: Transmitting

Test Result: Pass

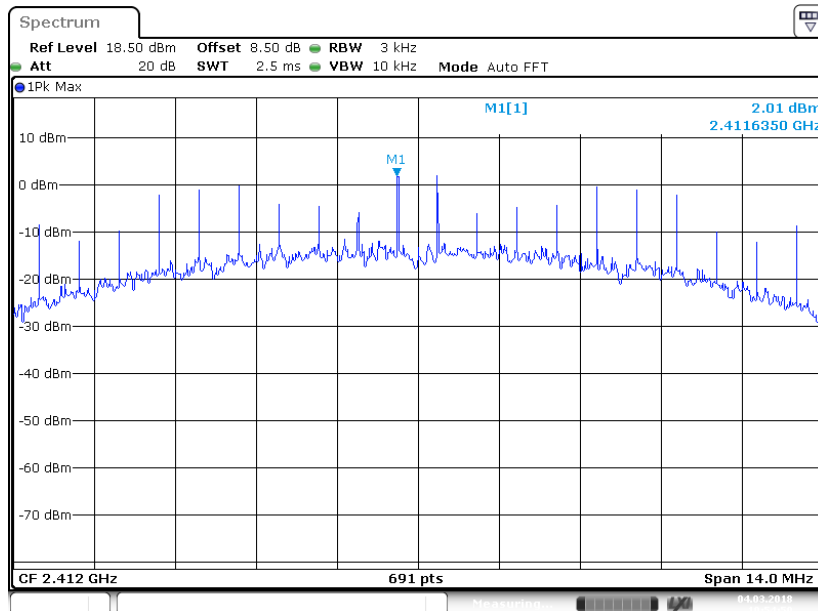
Channel	Frequency (MHz)	PSD (dBm/3kHz)			Limit (dBm/3kHz)
		Chain0	Chain1	Total	
802.11b mode					
Low	2412	2.01	1.45	/	≤8
Middle	2437	2.05	1.46	/	≤8
High	2462	2.15	1.35	/	≤8
802.11g mode					
Low	2412	-17.25	-16.05	/	≤8
Middle	2437	-16.93	-16.58	/	≤8
High	2462	-17.19	-16.68	/	≤8
802.11n-HT20 mode					
Low	2412	-17.01	-16.07	-13.50	≤8
Middle	2437	-16.31	-15.75	-13.01	≤8
High	2462	-16.90	-15.79	-13.30	≤8
802.11n-HT40 mode					
Low	2422	-22.06	-21.75	-18.89	≤8
Middle	2437	-22.81	-22.16	-19.46	≤8
High	2452	-22.27	-21.83	-19.03	≤8

Note:

The total PSD=10*Log10 (10[^] (Chain 0/10) +10[^] (Chain 1/10))

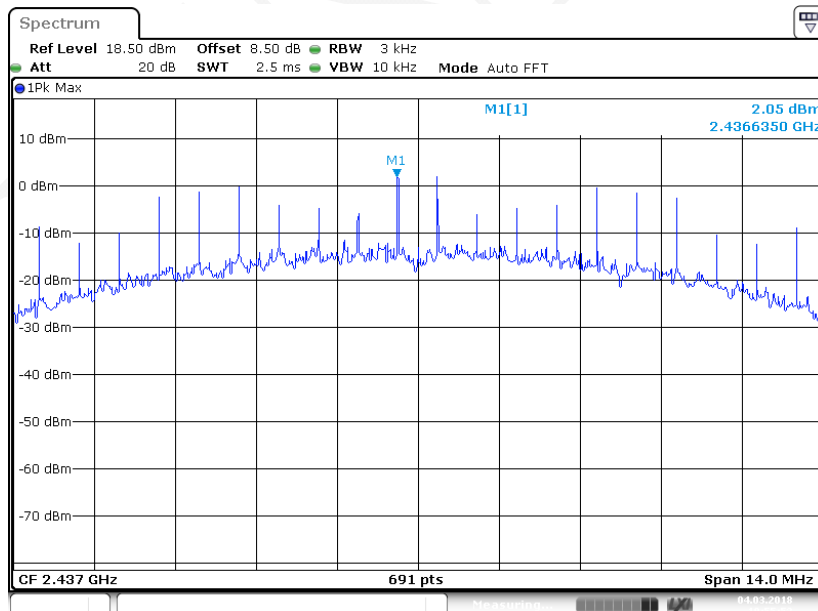
Chain0:

802.11b Low Channel



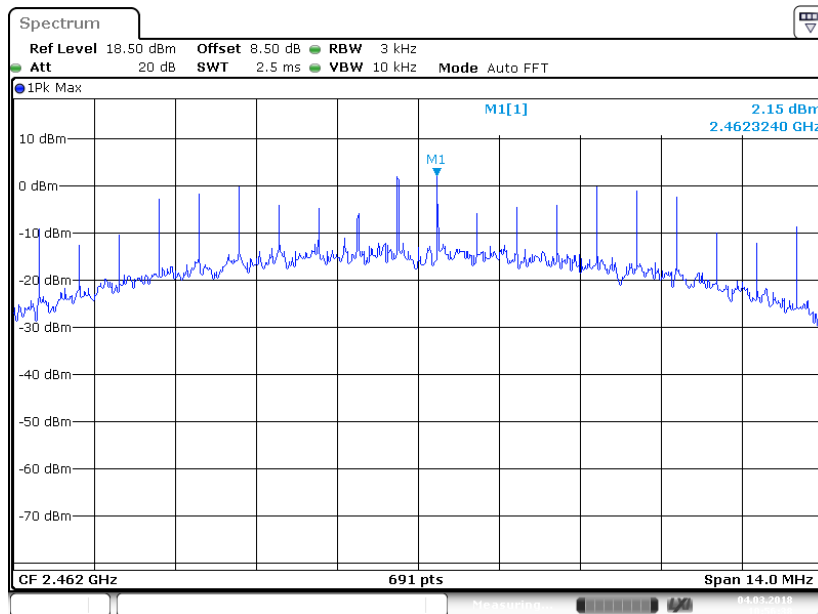
Date: 4 MAR 2018 10:54:50

802.11b Middle Channel



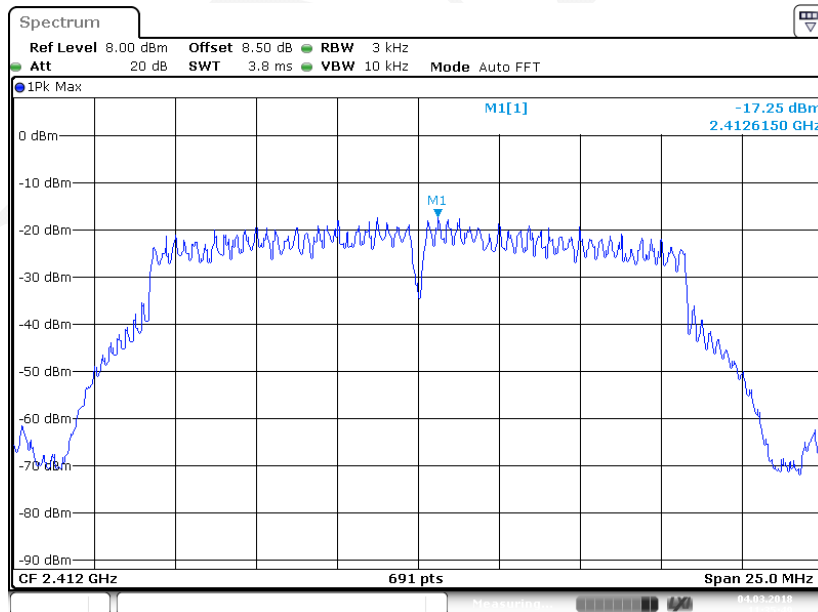
Date: 4 MAR 2018 10:55:52

802.11b High Channel



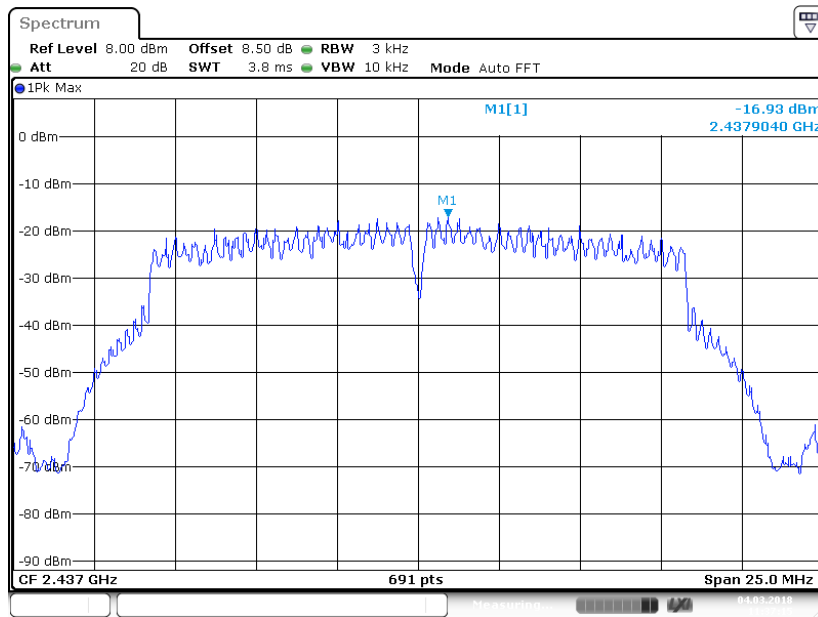
Date: 4 MAR 2018 10:56:39

802.11g Low Channel



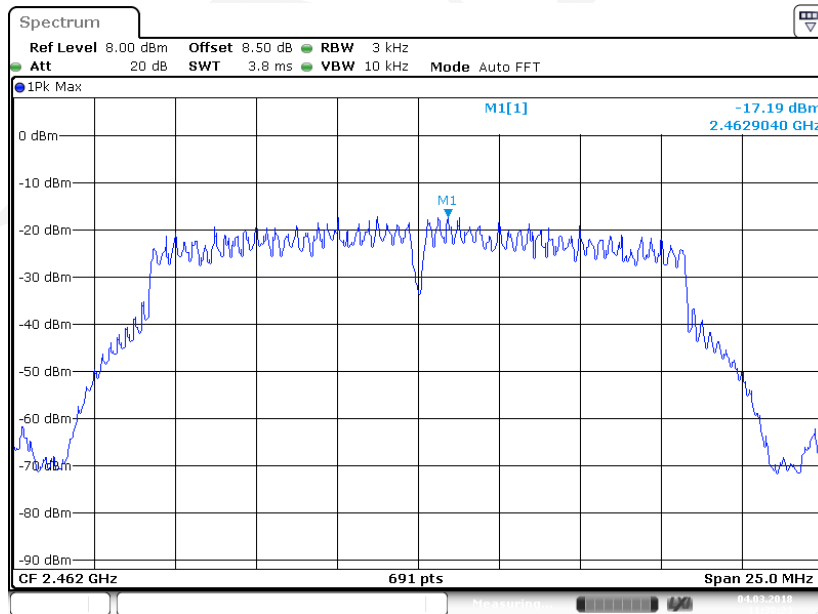
Date: 4 MAR 2018 11:35:49

802.11g Middle Channel



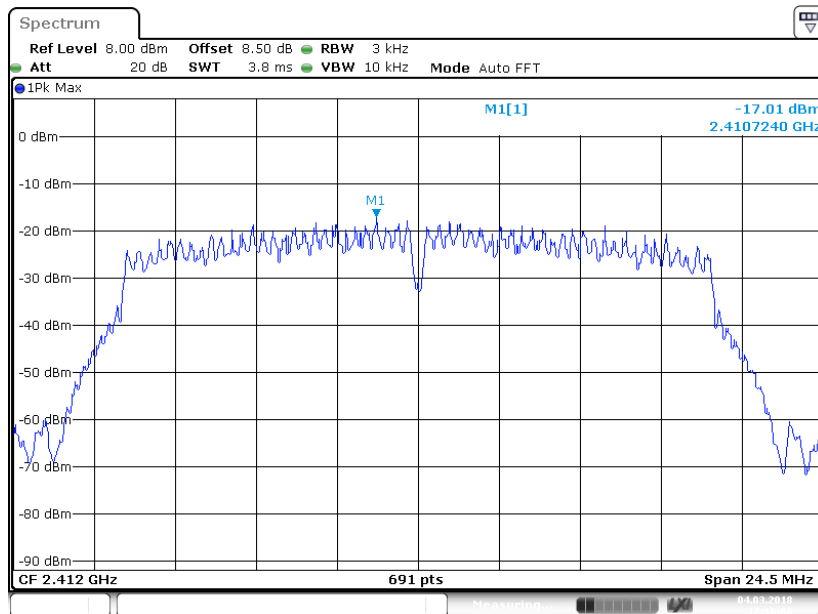
Date: 4 MAR 2018 11:37:15

802.11g High Channel



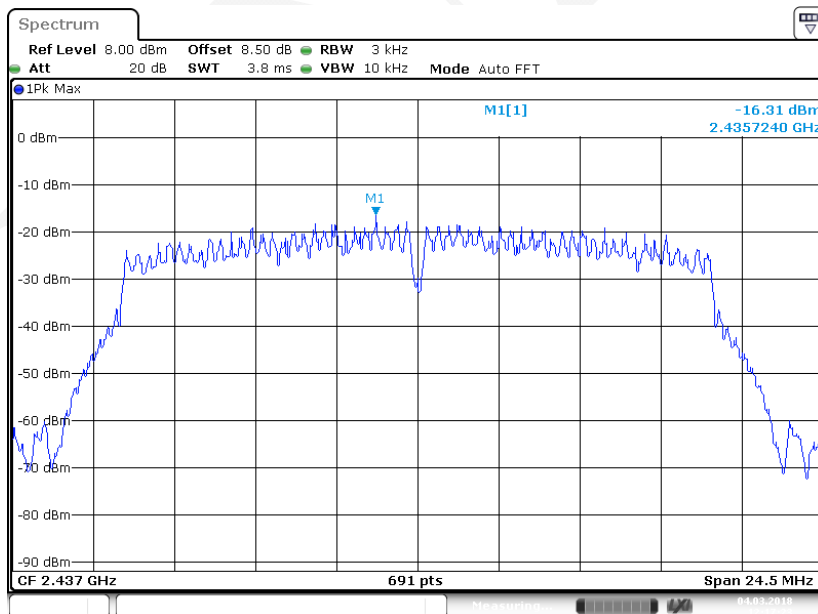
Date: 4 MAR 2018 11:38:23

802.11n-HT20 Low Channel



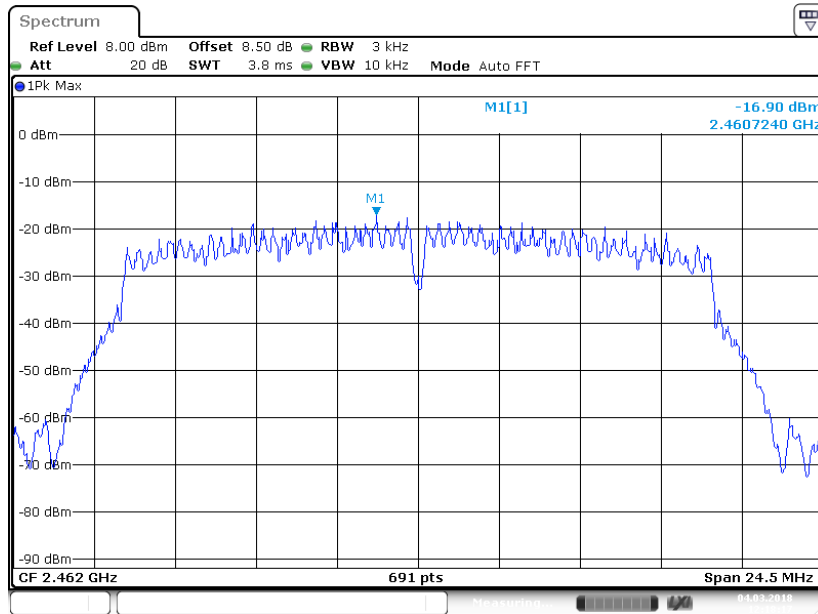
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802.11n-HT20 Middle Channel



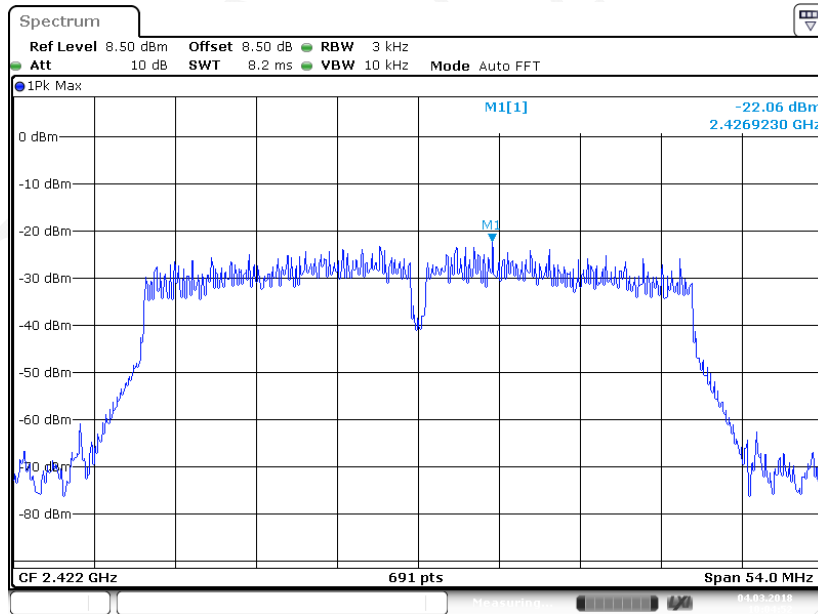
Date: 4 MAR 2018 12:17:24

802.11n-HT20 High Channel



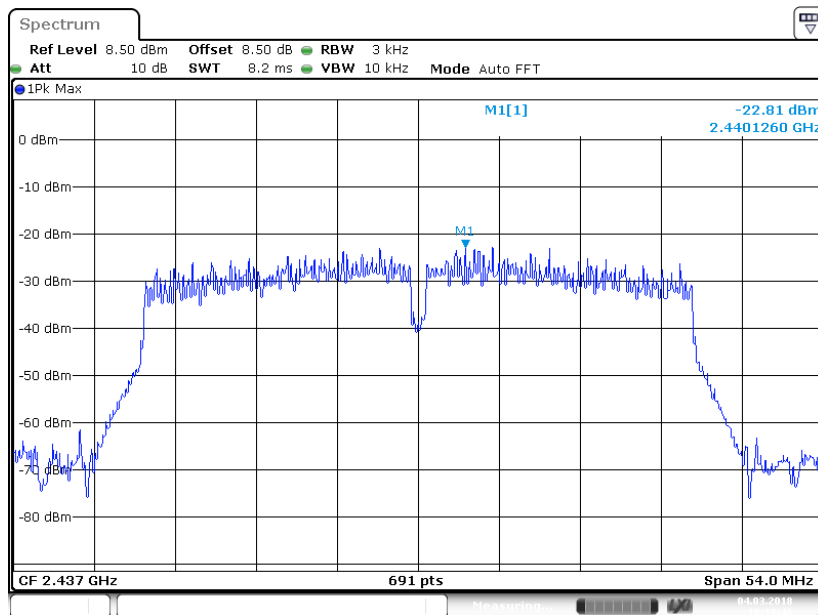
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802.11n-HT40 Low Channel



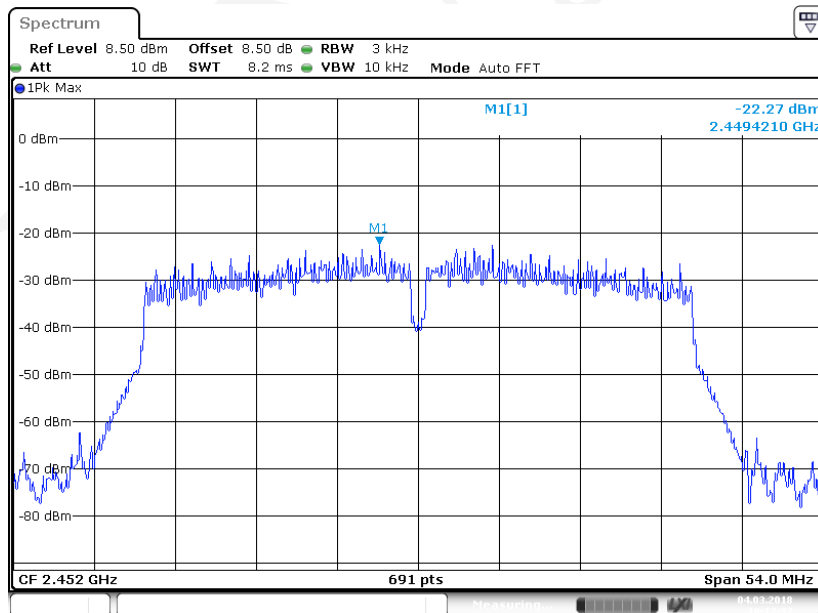
Date: 4 MAR 2018 10:04:52

802.11n-HT40 Middle Channel



Date: 4 MAR 2018 10:13:46

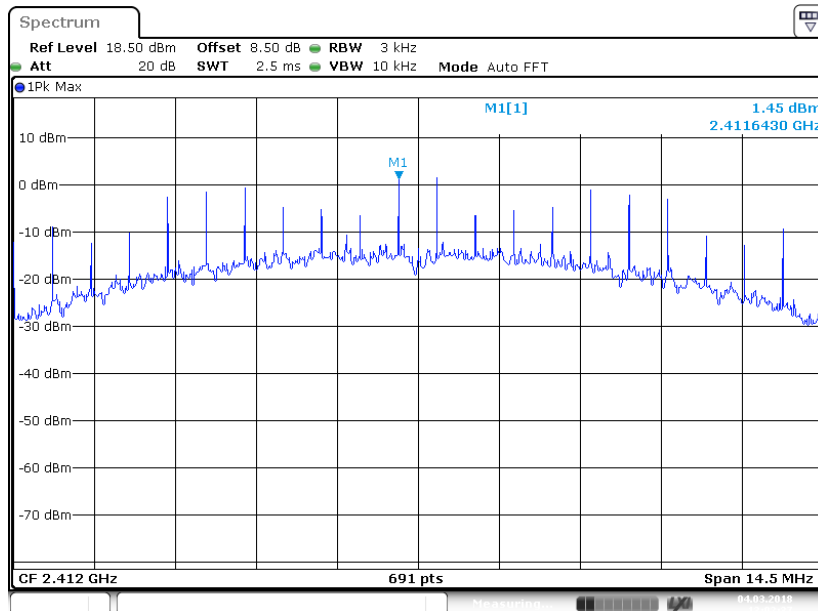
802.11n-HT40 High Channel



Date: 4 MAR 2018 10:12:38

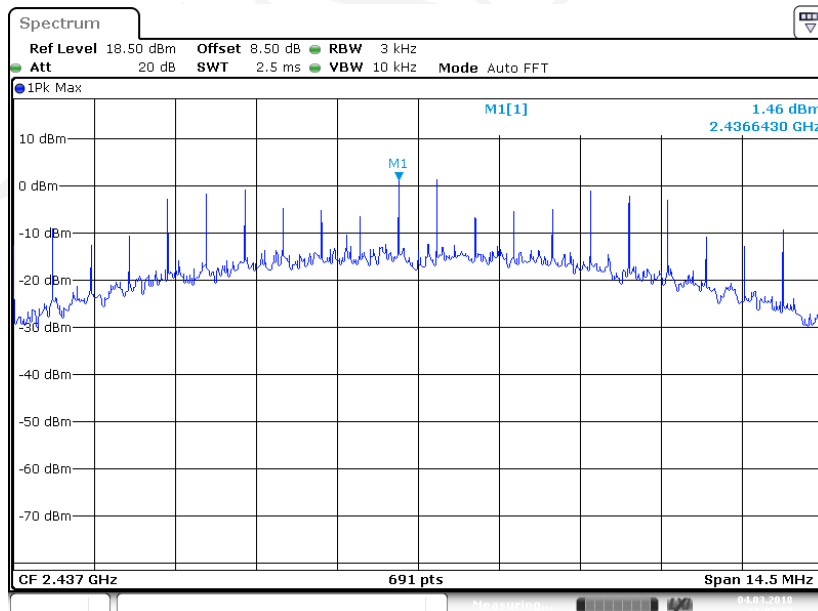
Chain1:

802.11b Low Channel



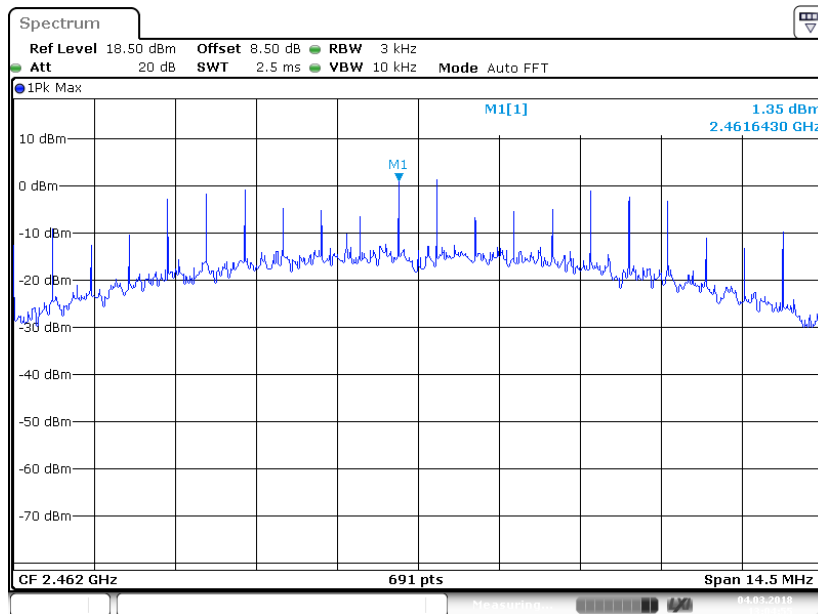
Date: 4 MAR 2018 13:02:37

802.11b Middle Channel



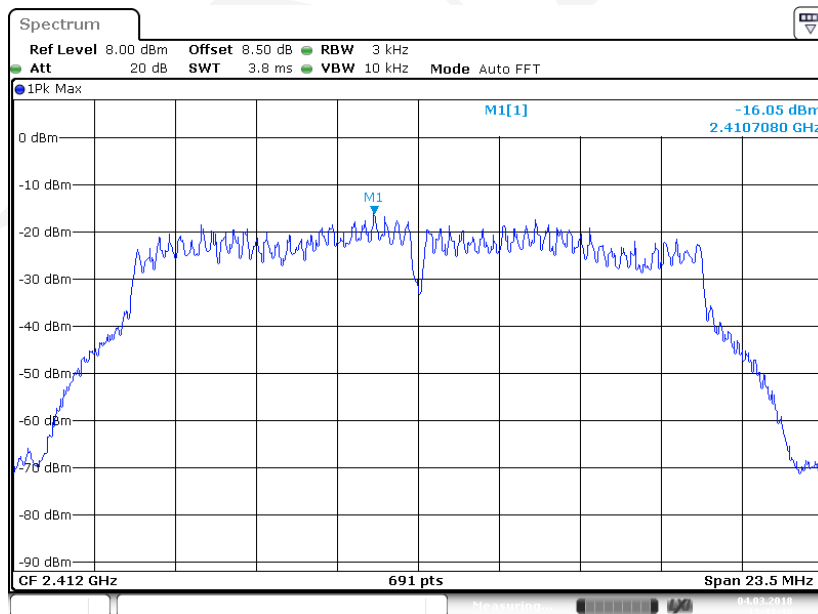
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802.11b High Channel



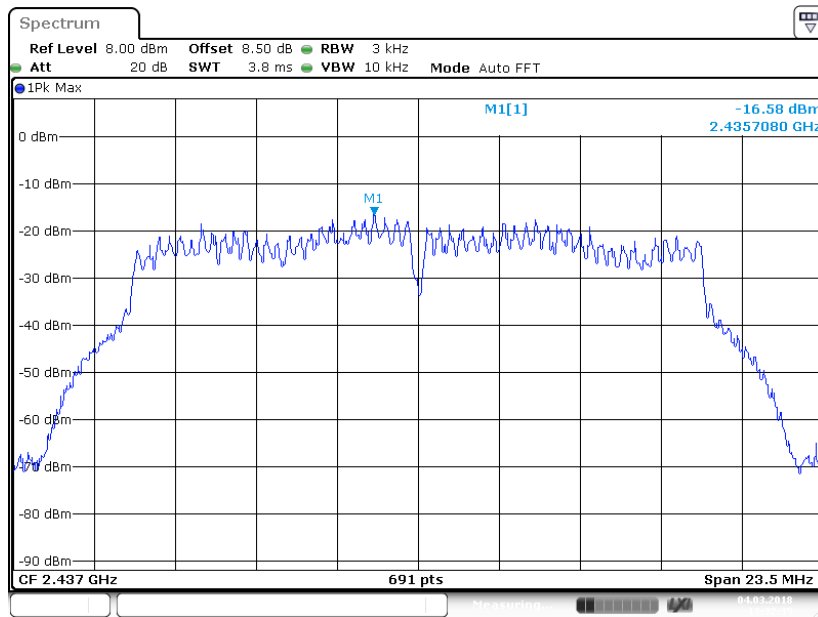
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802.11g Low Channel

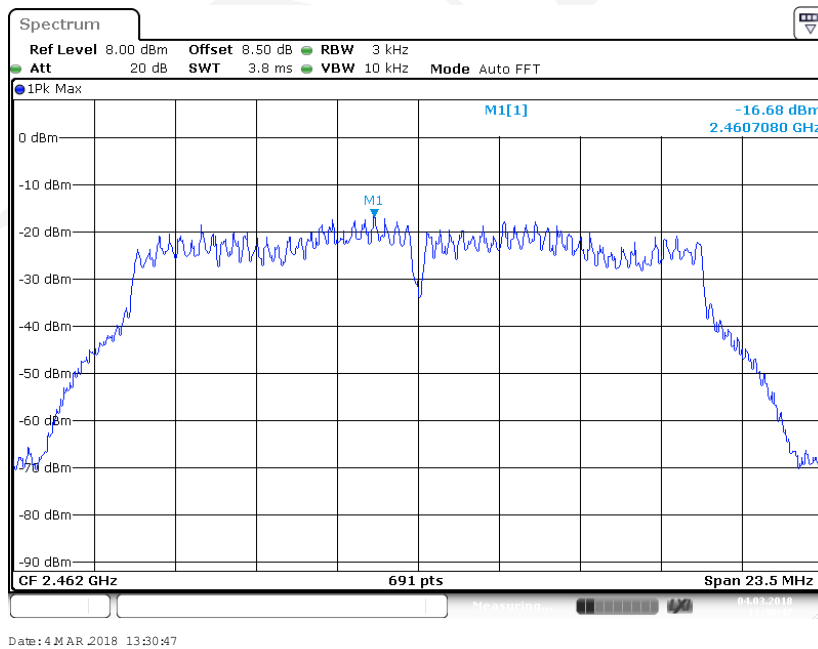


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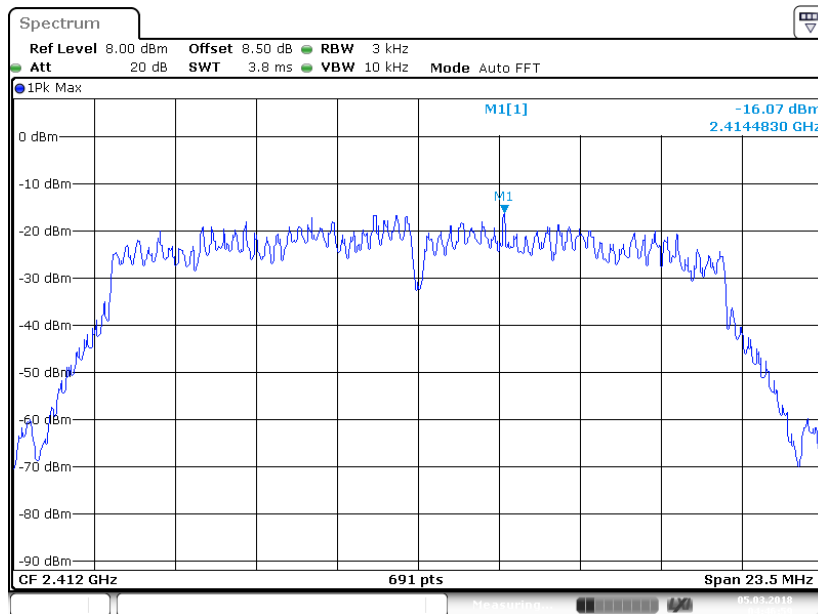
802.11g Middle Channel



802.11g High Channel

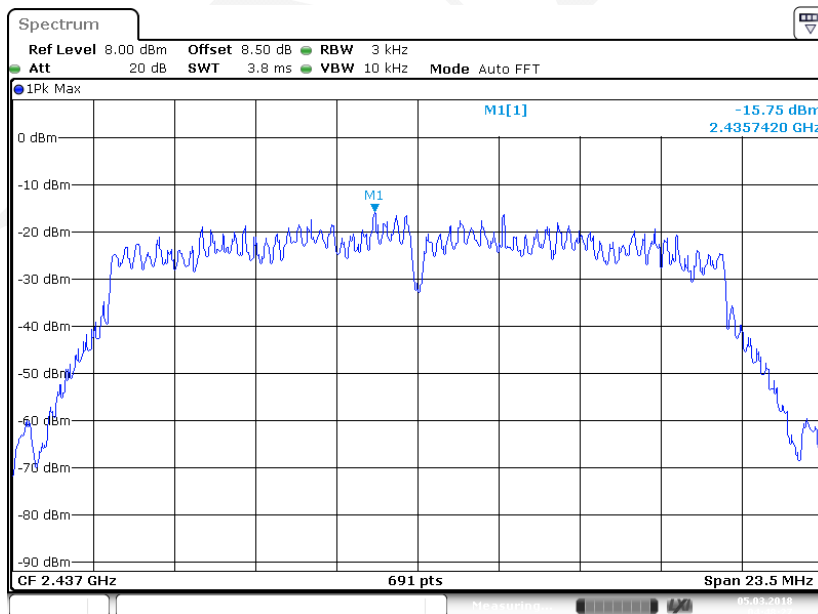


802.11n-HT20 Low Channel



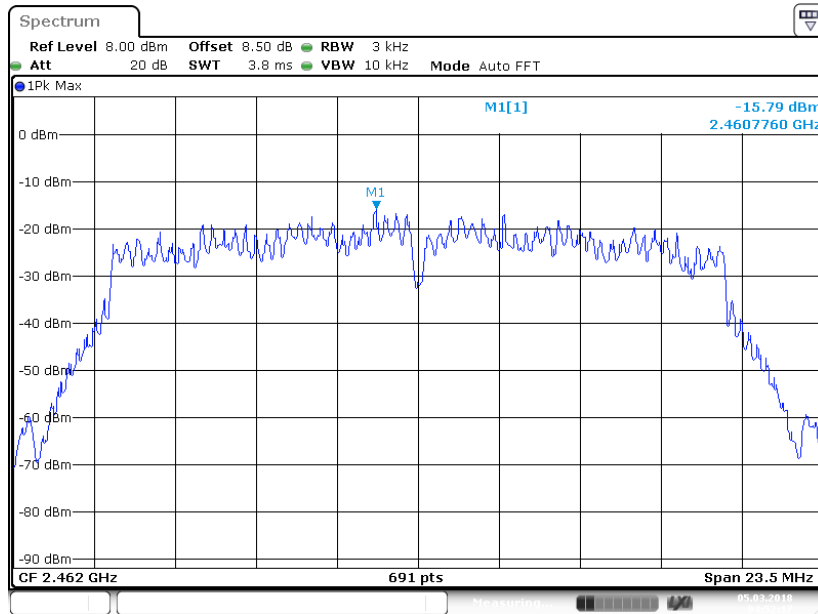
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802.11n-HT20 Middle Channel



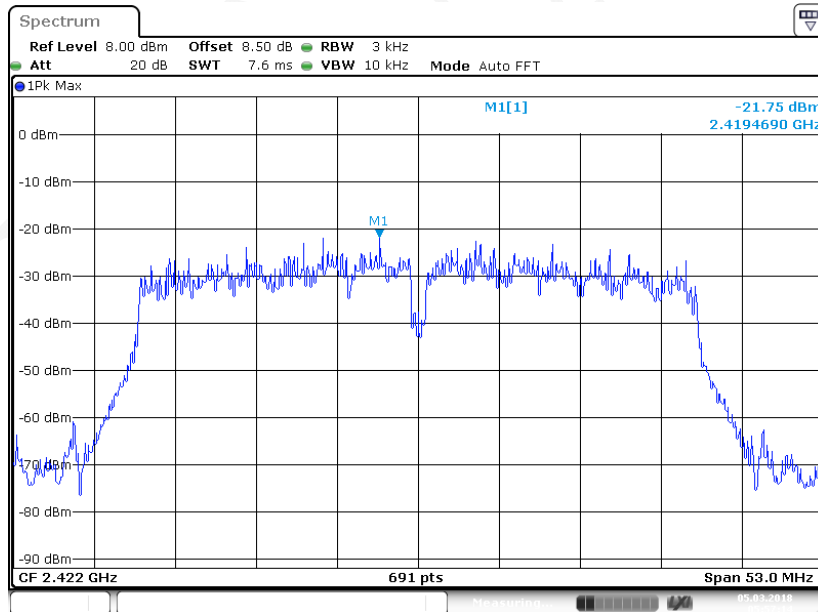
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802.11n-HT20 High Channel



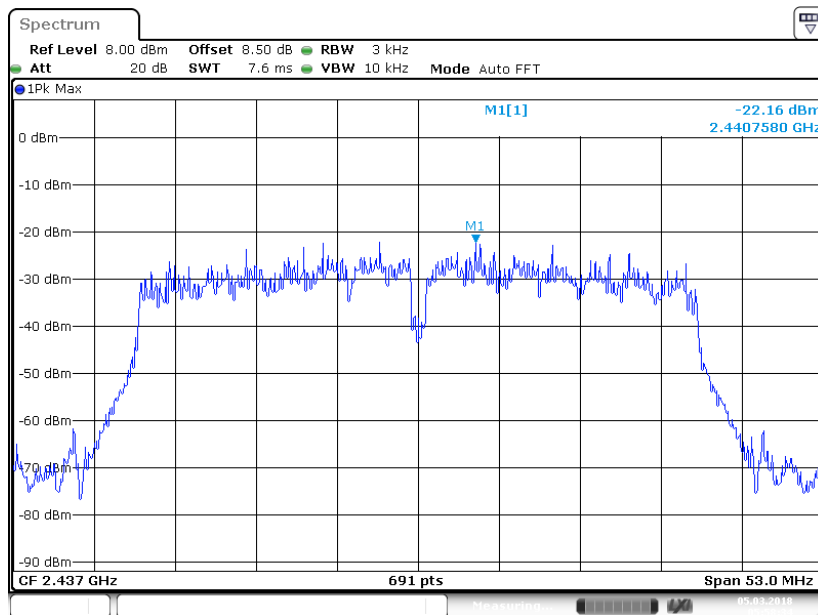
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802.11n-HT40 Low Channel



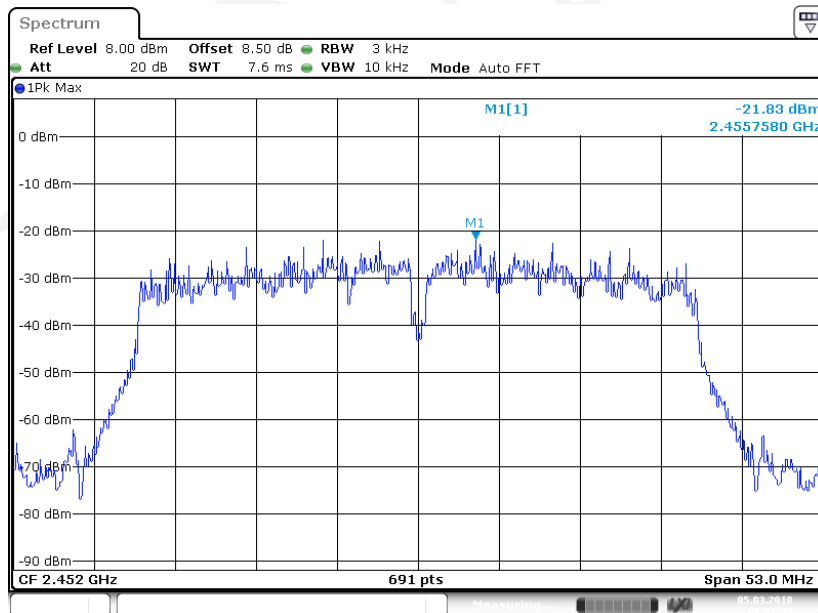
Date: 5 MAR 2018 05:57:14

802.11n-HT40 Middle Channel



Date: 5 MAR 2018 05:58:34

802.11n-HT40 High Channel



Date: 5 MAR 2018 06:01:41

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