

TEST REPORT

For

Alcatel LINKZONE™

Model Number: MW41TM

FCC ID: 2ACCJB071

Report Number : WT168003433

Test Laboratory	:	Shenzhen Academy of Metrology and Quality Inspection
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TEST REPORT DECLARATION

Applicant : TCL Communication Ltd

Address : 5F, C-Tower, No.232, Liangjing Road, Zhangjiang High-tech Park, Pudong, Shanghai, China

Manufacturer : TCL Mobile Communication Co. Ltd. Huizhou

Address : 70 Huifeng 4rd., ZhongKai High-Technology Development District, Huizhou, Guangdong, PRC. 516006

EUT Description : Alcatel LINKZONE™

Model No : MW41TM

Trade mark : Alcatel

Serial Number : /

FCC ID : 2ACCJB071

Test Standards:

FCC Part 15 15.207, 15.209, 15.247(2015)

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with FCC Rules Part 15.207, 15.209, 15.247 .

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

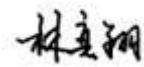
Project
Engineer:



(Chen Silin 陈司林)

Date: Jul.30, 2016

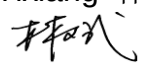
Checked by:



(Lin Yixiang 林奕翔)

Date: Jul.30, 2016

Approved by:



(Lin Bin 林斌)

Date: Jul.30, 2016

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1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	FCC Rules	Test Results
6dB DTS bandwidth measurement	15.247 (a) (2)	Pass
Maximum Peak Conducted Power	15.247 (b) (3)	Pass
Maximum Power Spectral Density Level	15.247 (3)	Pass
Conducted Bandedge and Spurious	15.247 (d)	Pass
Radiated Bandedge and Spurious	15.247 (d) 15.209 15.205	Pass
Conducted emission test for AC power port	15.207	Pass
Antenna Requirment	15.203	Pass

Remark: "N/A" means "Not applicable."

2. GENERAL INFORMATION

2.1. Report information

- 2.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.
- 2.1.2. The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 2.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579. The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number are 446246 806614 994606(semi anechoic chamber).

The Laboratory is registered to perform emission tests with Industry Canada (IC), and the registration number is 11177A-1 11177A-2.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is E2024086Z02.

2.3.Measurement Uncertainty

Conducted Emission

9kHz~30MHz 3.5dB

Radiated Emission

30MHz~1000MHz 4.5dB

1GHz~26.5GHz 4.6dB

3. PRODUCT DESCRIPTION

3.1.EUT Description

Description : Alcatel LINKZONE™

Manufacturer : TCL Mobile Communication Co. Ltd. Huizhou

Model Number : MW41TM

Operate Frequency : 2.412GHz~2.462GHz

Antenna Designation : WLAN/BT: PIFA Antenna 1dBi

Remark: /

WLAN :

Table 2 Working Frequency List(802.11b, 802.11g,802.11n HT20)

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

Table 3 Working Frequency List(802.11n HT40)

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

3.2.Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **2ACCJB071** filing to comply with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.

3.3. Block Diagram of EUT Configuration



Figure 1 EUT setup

3.4. Operating Condition of EUT

The Radiated spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission (X plane).

Worst-case mode and channel used for 30-1000 MHz radiated and power line conducted emissions was the mode and channel with the highest output power.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps

802.11g mode: 6 Mbps

802.11n HT20 mode: MCS0

802.11b and 802.11g operates in SISO mode. For SISO conducted measurements, the modes tested in this report will be considered as a worst case mode.

802.11n operate in SISO mode. For SISO conducted measurements, the modes tested in this report will be considered as a worst case mode.

3.5. Directional Antenna Gain

The EUT support a WIFI MIMO function.

3.6.Support Equipment List

Table 4 Support Equipment List

Name	Model No	S/N	Manufacturer
Li-polymer Battery	CAB1800014C1	---	BYD Lithium Battery Co.,Ltd
Adaptor for EUT	UC11US	---	TENPAO

3.7.Test Conditions

Date of test : Jun.24,2016-Jul.28 , 2016

Date of EUT Receive : Jun.24,2016

Temperature: 22-24 °C

Relative Humidity:47-50%

3.8.Special Accessories

Not available for this EUT intended for grant.

3.9.Equipment Modifications

Not available for this EUT intended for grant.

4. TEST EQUIPMENT USED

Table 5 Test Equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB2603	EMI Test Receiver	Rohde & Schwarz	ESCS30	Dec.18, 2015	1 Year
SB3321	AMN	Rohde & Schwarz	ESH2-Z5	Jan.17, 2016	1 Year
SB2604	AMN	Rohde & Schwarz	ESH3-Z5	Nov.18, 2015	1 Year
SB8501/09	EMI Test Receiver	Rohde & Schwarz	ESU40	Mar.18, 2016	1 Year
SB8501/04	Bilog Antenna	Schwarzbeck	VULB9163	Mar.18, 2016	1 Year
SB5472/02	Trilog Broadband Antenna(30M-3GHz)	Schwarzbeck	VULB9163	Jan.07 ,2016	1 Year
SB3435	Horn Antenna	Rohde & Schwarz	HF906	Jan.18, 2016	1 Year
SB8501/01	Double-Ridged Waveguide Horn Antenna(1G~18GHz)	Rohde & Schwarz	HF907	Mar.21, 2016	1 Year
SB3345	Loop Antenna	Schwarzbeck	FMZB1516	Jan.20, 2015	2 Years
SB8501/17	Preamplifier	Rohde & Schwarz	SCU-18	Mar.26, 2016	1 Year
SB8501/16	Preamplifier	Rohde & Schwarz	SCU-26	Mar.26, 2016	1 Year
SB8501/11	Horn Antenna	ETS-Lindgren	3160-09	Mar.28,2016	1 Year
SB9721/05	Power Meter	Agilent	N1913A	Dec.28, 2015	1 Year
SB9721/06	Power Sensor	Agilent	E9304A	Dec.28, 2015	1 Year
SB9060	Signal Analyzer	Rohde & Schwarz	FSQ	Apr.25,2016	1 Year

5. DUTY CYCLE

5.1.LIMITS OF DUTY CYCLE

None; for reporting purposes only

5.2.TEST PROCEDURE

1. Set span = Zero
2. RBW = 10MHz
3. VBW = 10MHz,
4. Detector = Peak

5.3.TEST SETUP

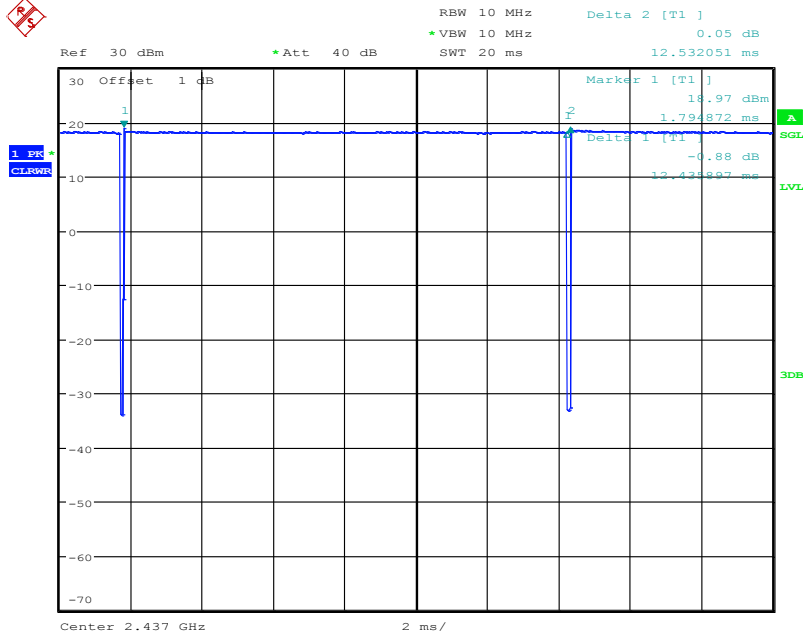


5.4.TEST DATA

Table 6 Duty Cycle Test Data

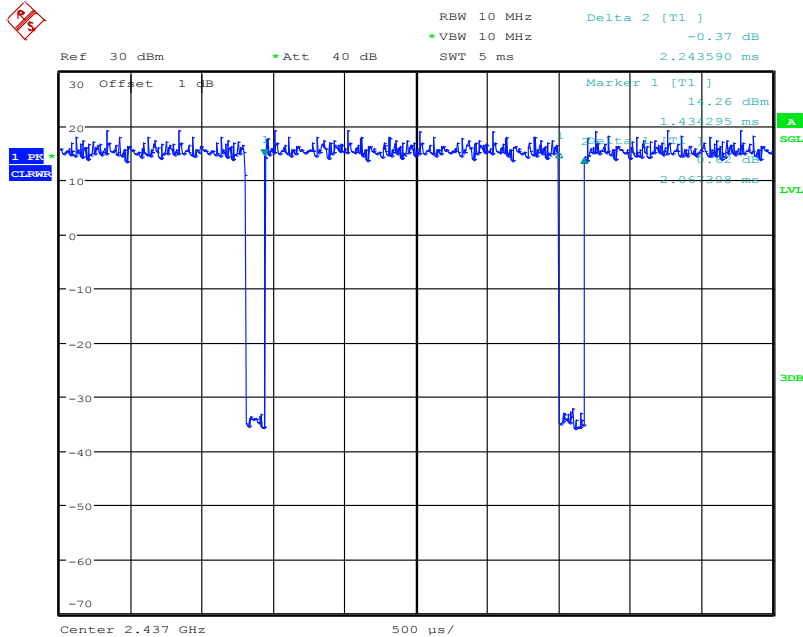
Mode	On Time (ms)	Duty Cycle(%)	Duty Factor	1/T Minimum VBW (kHz)
802.11b	12.43	99.2%	0	0.01
802.11g	2.07	92.41%	0.34	1
802.11n HT20	1.92	94.12%	0.26	1
802.11N HT40	0.945	89.24%	0.49	1

802.11b



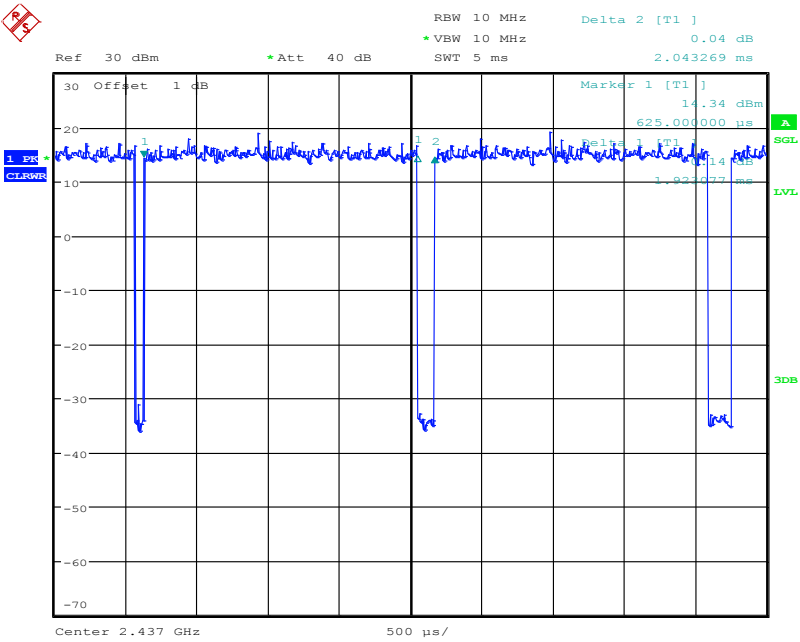
Date: 4.JUL.2016 14:41:41

802.11g



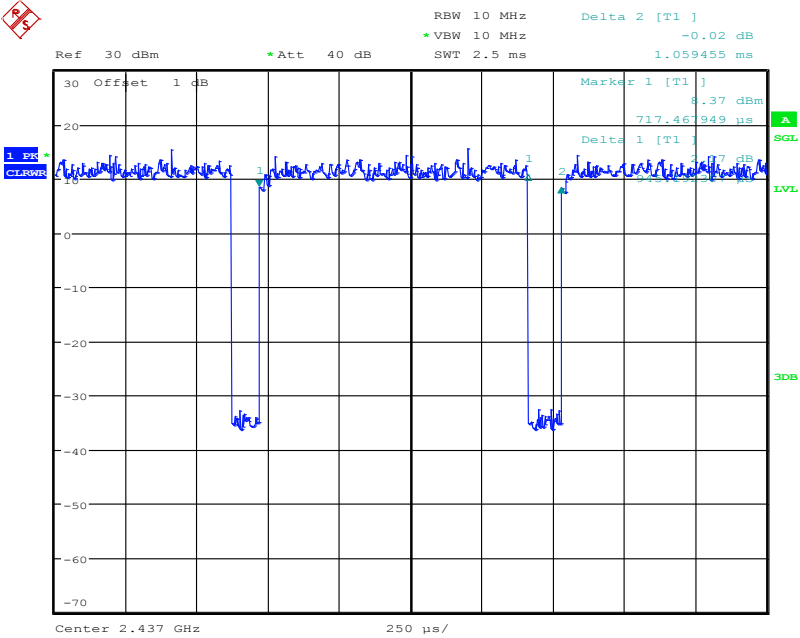
Date: 4.JUL.2016 14:54:27

802.11n HT20



Date: 4.JUL.2016 14:56:36

802.11n HT40



Date: 4.JUL.2016 14:58:39

6. 6DB BANDWIDTH MEASUREMENT

6.1.LIMITS OF 6dB BANDWIDTH MEASUREMENT

CFR 47 (FCC) part 15.247 (a) (2) , 558074 D01 DTS Meas Guidance v03r05

6.2.TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer.

a) Set RBW = 100 kHz.

b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.

c)Detector = Peak.

d)Trace mode = max hold.

e)Sweep = auto couple.

f)Allow the trace to stabilize.

g)Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

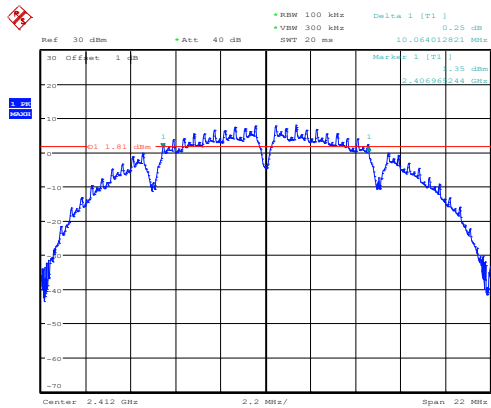
6.3.TEST SETUP



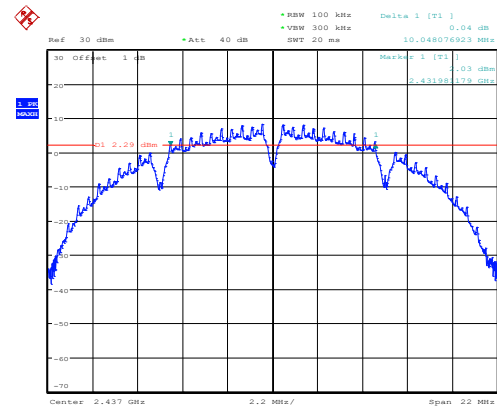
Test Data

Table 7 6dB Bandwidth Test Data 802.11b @Ant 1

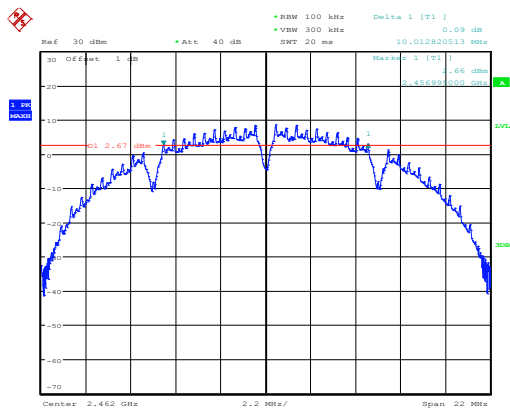
CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	results
2412	10.064	Pass
2437	10.048	Pass
2462	10.013	Pass



Date: 4.JUL.2016 15:13:58

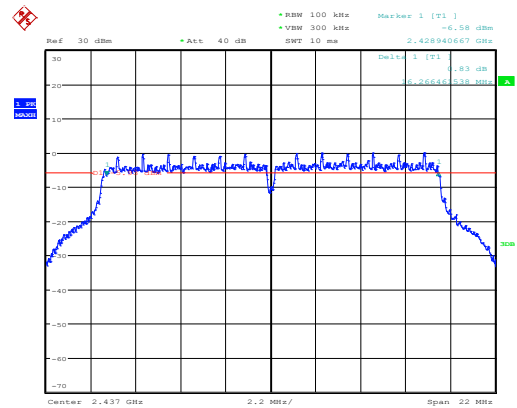


Date: 4.JUL.2016 15:20:08



Date: 4.JUL.2016 15:22:55

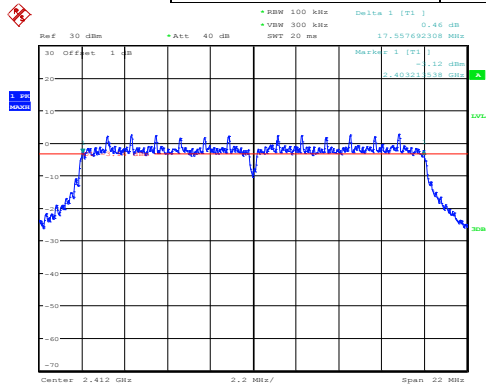
CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	results
2412	16.389	Pass
2437	16.266	Pass
2462	16.367	Pass



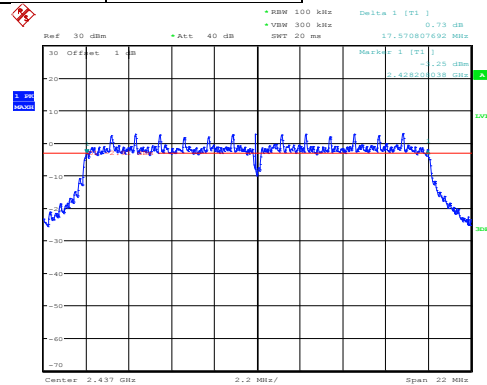
Date: 10.MAY.2016 14:14:15

Table 9 6dB Bandwidth Test Data 802.11n HT20 @Ant 1

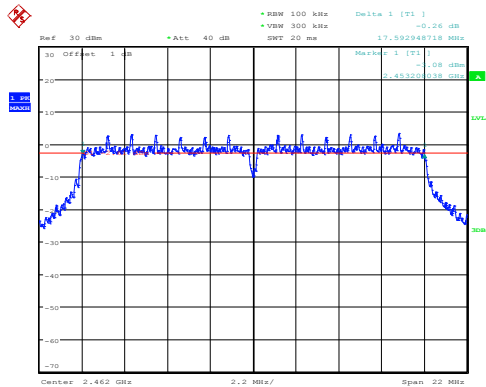
CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	results
2412	17.558	Pass
2437	17.571	Pass
2462	17.593	Pass



Date: 4.JUL.2016 15:35:09



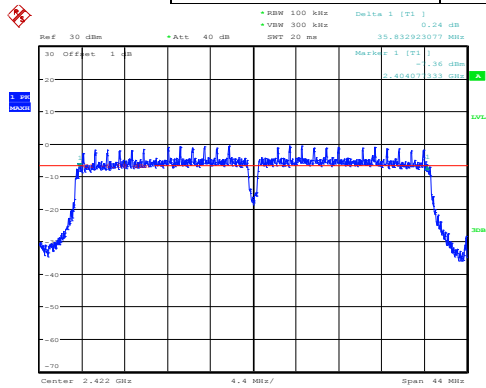
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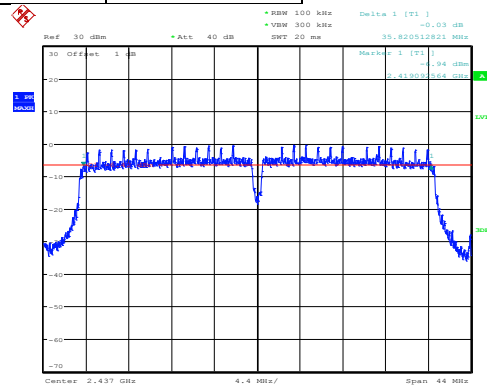
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Table 10 6dB Bandwidth Test Data 802.11n HT40 @Ant 1

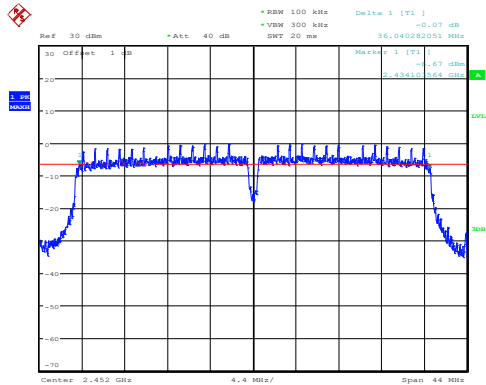
CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	results
2422	35.833	Pass
2437	35.821	Pass
2452	35.040	Pass



Date: 4.JUL.2016 15:53:54



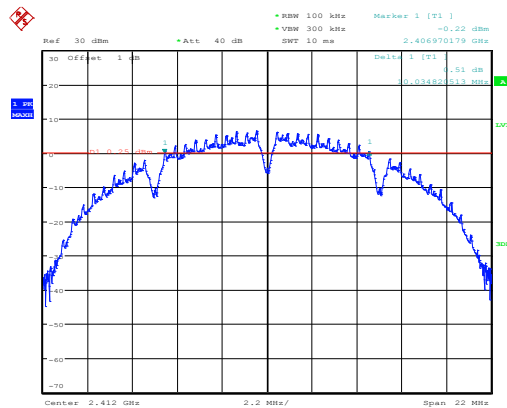
Date: 4.JUL.2016 15:56:13



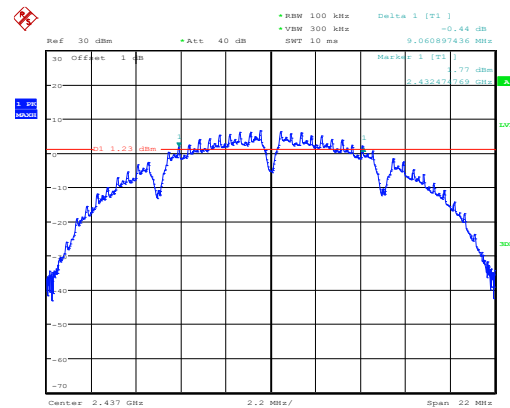
Date: 4.JUL.2016 15:58:39

Table 11 6dB Bandwidth Test Data 802.11b @Ant 2

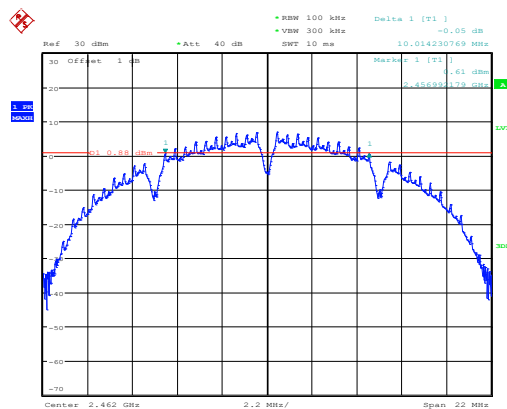
CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	results
2412	10.035	Pass
2437	9.061	Pass
2462	10.014	Pass



Date: 12.JUL.2016 09:55:16



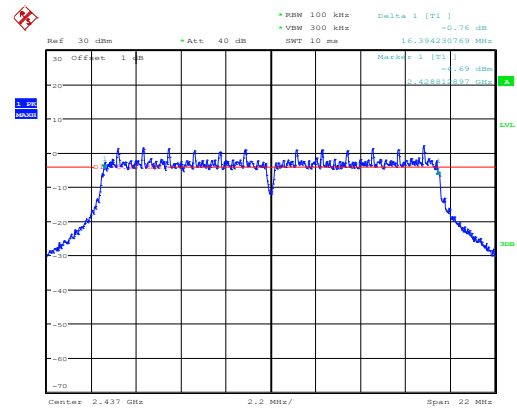
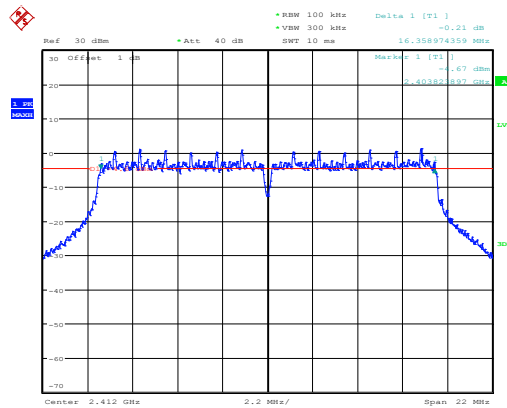
Date: 12.JUL.2016 09:59:23



Date: 12.JUL.2016 10:01:01

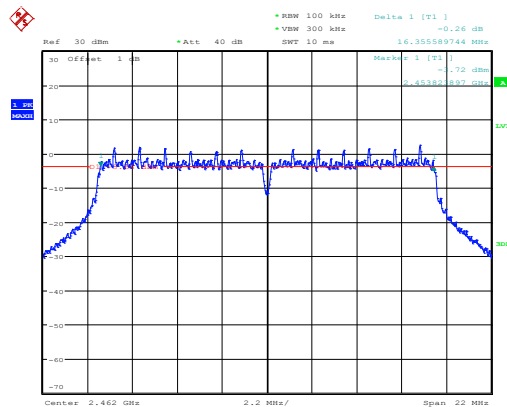
Table 12 6dB Bandwidth Test Data 802.11g @Ant 2

CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	results
2412	16.359	Pass
2437	16.394	Pass
2462	16.356	Pass



Date: 12.JUL.2016 10:27:48

Date: 12.JUL.2016 10:29:38



Date: 12.JUL.2016 10:30:57

Table 13 6dB Bandwidth Test Data 802.11n HT20 @Ant 2

CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	results
2412	17.522	Pass
2437	17.541	Pass
2462	17.522	Pass

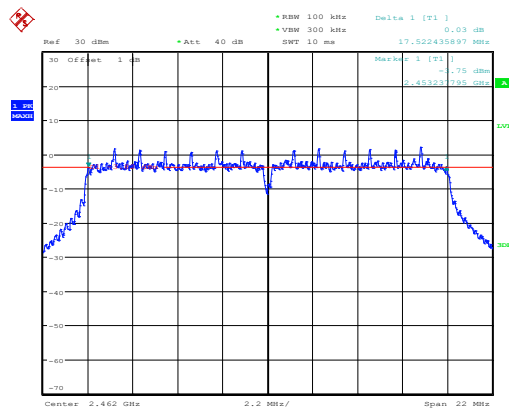
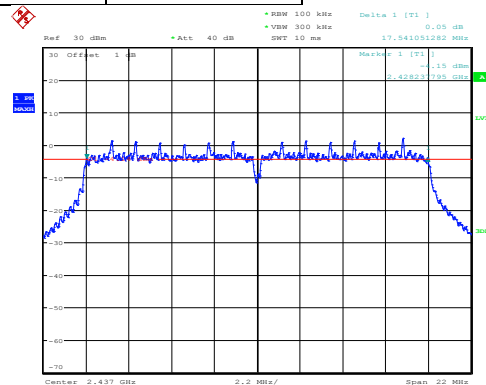
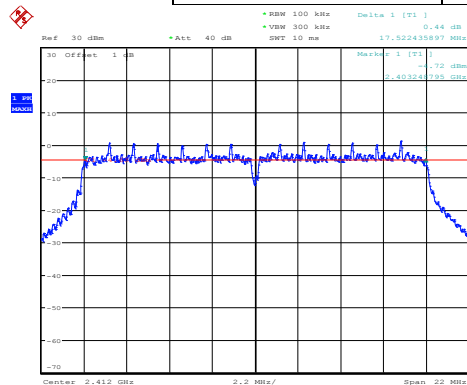
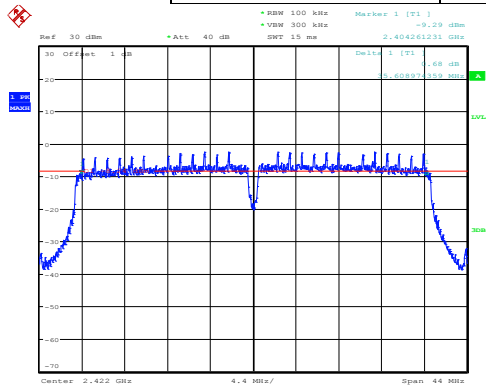
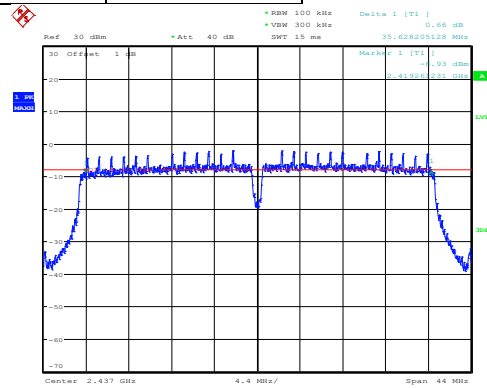


Table 14 6dB Bandwidth Test Data 802.11n HT40 @Ant 2

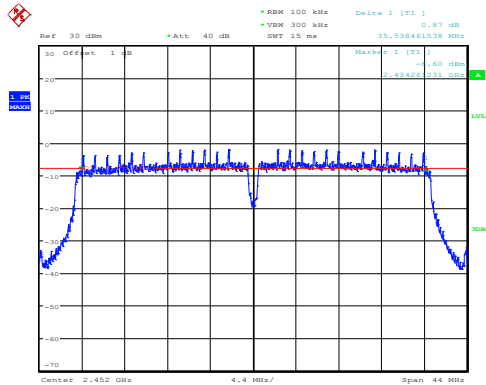
CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	results
2422	35.609	Pass
2437	35.628	Pass
2452	35.538	Pass



Date: 12.JUL.2016 10:41:21



Date: 12.JUL.2016 10:43:38



Date: 12.JUL.2016 10:45:22

7. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

7.1.LIMITS OF Maximum Conducted Output Power Measurement

CFR 47 (FCC) part 15.247 (b) (3), 558074 D01 DTS Meas Guidance v03r05

7.2.TEST PROCEDURE

The transmitter output was connected to the RF power meter.

a) Using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

1) The EUT is configured to transmit continuously, or to transmit with a constant duty factor.

2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.

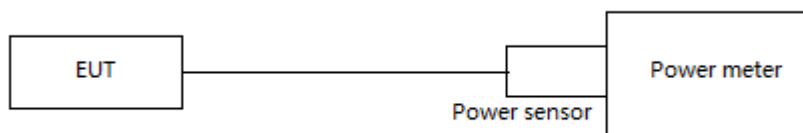
3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal as described in Section 6.0.

c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

d) Adjust the measurement in dBm by adding $10\log(1/x)$, where x is the duty cycle to the measurement result.

7.3.TEST SETUP



7.4.TEST DATA

Table 15 Maximum Conducted Output Power Test Data 802.11b @ Ant 1

Center Freq.[MHz]	Meas. Level (Cond.) [dBm]	Duty Factor	Maximum Conducted Output Power(Average) [dBm]	Limit [dBm]	Result
2412	16.97	0	16.97	< 30	Pass
2437	16.90	0	16.90	< 30	Pass
2462	17.15	0	17.15	< 30	Pass

Table 16 Maximum Conducted Output Power Test Data 802.11b @ Ant 2

Center Freq.[MHz]	Meas. Level (Cond.) [dBm]	Duty Factor	Maximum Conducted Output Power(Average) [dBm]	Limit [dBm]	Result
2412	14.72	0	14.72	< 30	Pass
2437	15.41	0	15.41	< 30	Pass
2462	15.86	0	15.86	< 30	Pass

Table 17 Maximum Conducted Output Power Test Data 802.11b @ Ant 1 +Ant 2

Center Freq.[MHz]	Maximum Conducted Output Power(Average) [dBm]	Limit [dBm]	Result
2412	19.0	< 30	Pass
2437	19.23	< 30	Pass
2462	19.56	< 30	Pass

Table 18 Maximum Conducted Output Power Test Data 802.11g @Ant 1

Center Freq.[MHz]	Meas. Level (Cond.) [dBm]	Duty Factor	Maximum Conducted Output Power(Average) [dBm]	Limit [dBm]	Result
2412	12.03	0.34	12.37	< 30	Pass
2437	12.34	0.34	12.68	< 30	Pass
2462	12.61	0.34	12.95	< 30	Pass

Table 19 Maximum Conducted Output Power Test Data 802.11g @Ant 2

Center Freq.[MHz]	Meas. Level (Cond.) [dBm]	Duty Factor	Maximum Conducted Output Power(Average) [dBm]	Limit [dBm]	Result
2412	12.30	0.34	12.64	< 30	Pass
2437	13.06	0.34	13.40	< 30	Pass
2462	13.45	0.34	13.79	< 30	Pass

Table 20 Maximum Conducted Output Power Test Data 802.11g @ Ant 1 +Ant 2

Center Freq.[MHz]	Maximum Conducted Output Power(Average) [dBm]	Limit [dBm]	Result
2412	15.52	< 30	Pass
2437	16.07	< 30	Pass
2462	16.40	< 30	Pass

Table 21 Maximum Conducted Output Power Test Data 802.11n HT20 @Ant 1

Center Freq.[MHz]	Meas. Level (Cond.) [dBm]	Duty Factor	Maximum Conducted Output Power(Average) [dBm]	Limit [dBm]	Result
2412	12.50	0.26	12.76	< 30	Pass
2437	12.54	0.26	12.80	< 30	Pass
2462	12.58	0.26	12.84	< 30	Pass

Table 22 Maximum Conducted Output Power Test Data 802.11n HT20 @Ant 2

Center Freq.[MHz]	Meas. Level (Cond.) [dBm]	Duty Factor	Maximum Conducted Output Power(Average) [dBm]	Limit [dBm]	Result
2412	12.58	0.26	12.84	< 30	Pass
2437	12.98	0.26	13.24	< 30	Pass
2462	13.45	0.26	13.71	< 30	Pass

Table 23 Maximum Conducted Output Power Test Data 802.11n HT20 @ Ant 1 +Ant 2

Center Freq.[MHz]	Maximum Conducted Output Power(Average) [dBm]	Limit [dBm]	Result
2412	15.81	< 30	Pass
2437	15.90	< 30	Pass
2462	16.31	< 30	Pass

Table 24 Maximum Conducted Output Power Test Data 802.11n HT40 @Ant 1

Center Freq.[MHz]	Meas. Level (Cond.) [dBm]	Duty Factor	Maximum Conducted Output Power(Average) [dBm]	Limit [dBm]	Result
2422	11.01	0.49	11.50	< 30	Pass
2437	11.24	0.49	11.73	< 30	Pass
2452	11.32	0.49	11.81	< 30	Pass

Table 25 Maximum Conducted Output Power Test Data 802.11n HT40 @Ant 2

Center Freq.[MHz]	Meas. Level (Cond.) [dBm]	Duty Factor	Maximum Conducted Output Power(Average) [dBm]	Limit [dBm]	Result
2422	11.35	0.49	11.84	< 30	Pass
2437	11.72	0.49	12.21	< 30	Pass
2452	12.06	0.49	12.55	< 30	Pass

Table 26 Maximum Conducted Output Power Test Data 802.11n HT40 @ Ant 1 +Ant 2

Center Freq.[MHz]	Maximum Conducted Output Power(Average) [dBm]	Limit [dBm]	Result
2422	14.13	< 30	Pass
2437	14.86	< 30	Pass
2452	15.21	< 30	Pass

8. MAXIMUM POWER SPECTRAL DENSITY LEVEL MEASUREMENT

8.1.LIMITS OF Maximum Power Spectral Density Level Measurement

CFR 47 (FCC) part 15.247 (e) , 558074 D01 DTS Meas Guidance v03r05

8.2.TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer.

a)Set analyzer center frequency to DTS channel center frequency.

b) Set span to at least 1.5 times the OBW.

c) Set RBW = 1-5% of the OBW, not to exceed 1 MHz

d) Set VBW $\geq 3 \times$ RBW.

e)Detector = power averaging (RMS) or sample detector

f) Number of points in sweep $\geq 2 \times$ span / RBW. (This gives bin-to-bin spacing $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins.)

g)Sweep time = auto couple.

h)Allow trace to fully stabilize.

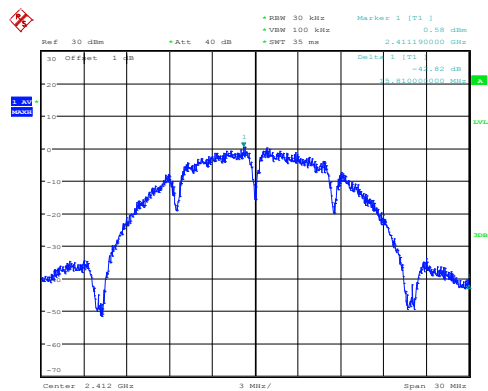
i)Use the peak marker function to determine the maximum amplitude level within the RBW.

j)If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

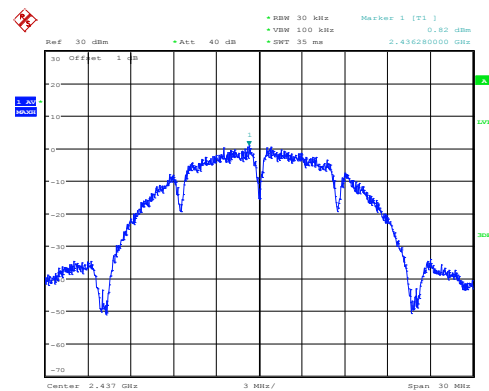
8.3.TEST DATA

Table 27 Maximum Power Spectral Density Level Test Data 802.11b @Ant 1

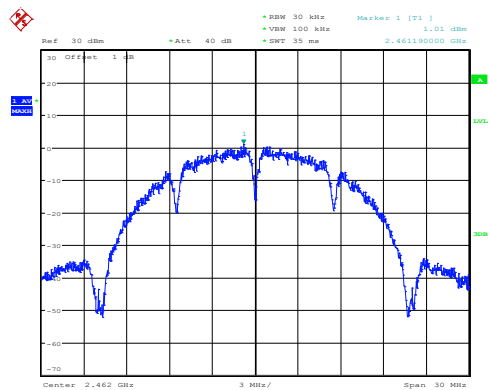
Center Freq.[MHz]	Meas.Level [dBm]	Duty Factor	Maximum Power Spectral Density [dBm]	Limit [dBm]	Result
2412	0.58	0	0.58	8	Pass
2437	0.82	0	0.82	8	Pass
2462	1.01	0	1.01	8	Pass



Date: 5.JUL.2016 10:02:15



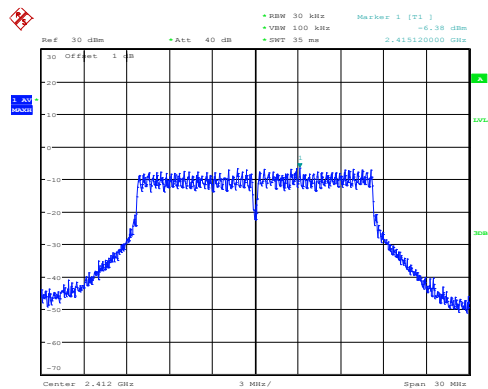
Date: 5.JUL.2016 10:03:41



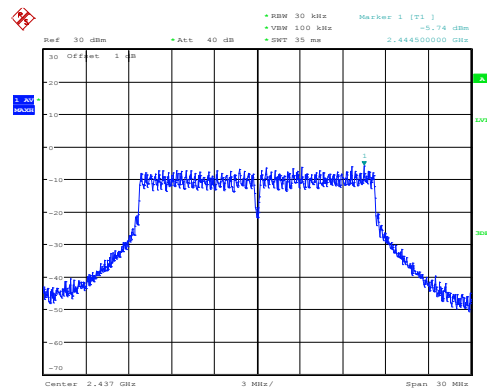
Date: 5.JUL.2016 10:04:32

Table 28 Maximum Power Spectral Density Level Test Data 802.11g @Ant 1

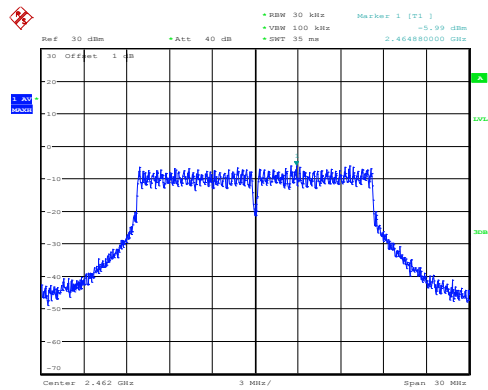
Center Freq.[MHz]	Meas.Level [dBm]	Duty Factor	Maximum Power Spectral Density [dBm]	Limit [dBm]	Result
2412	-6.38	0.34	-6.04	8	Pass
2437	-5.74	0.34	-5.40	8	Pass
2462	-5.99	0.34	-5.65	8	Pass



Date: 5.JUL.2016 10:06:28



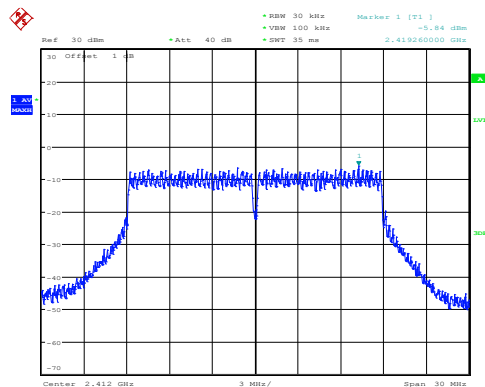
Date: 5.JUL.2016 10:07:36



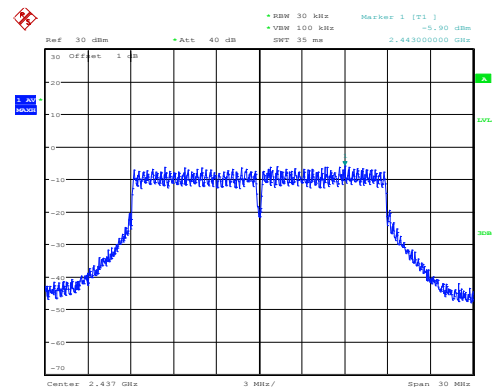
Date: 5.JUL.2016 10:08:30

Table 29 Maximum Power Spectral Density Level Test Data 802.11n HT20 @Ant 1

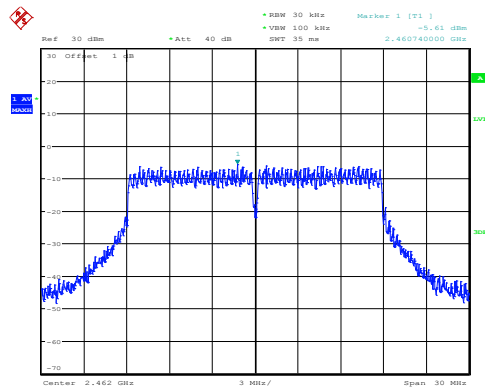
Center Freq.[MHz]	Meas.Level [dBm]	Duty Factor	Maximum Power Spectral Density [dBm]	Limit [dBm]	Result
2412	-5.84	0.26	-5.58	8	Pass
2437	-5.90	0.26	-5.64	8	Pass
2462	-5.61	0.26	-5.35	8	Pass



Date: 5.JUL.2016 10:10:10



Date: 5.JUL.2016 11:34:01



Date: 5.JUL.2016 11:34:27

Table 30 Maximum Power Spectral Density Level Test Data 802.11n HT40 @Ant 1

Center Freq.[MHz]	Meas.Level [dBm]	Duty Factor	Maximum Power Spectral Density [dBm]	Limit [dBm]	Result
2422	-10.70	0.49	-10.21	8	Pass
2437	-11.18	0.49	-10.67	8	Pass
2452	-10.21	0.49	-9.72	8	Pass

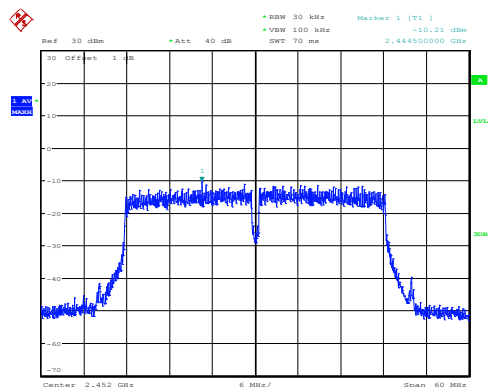
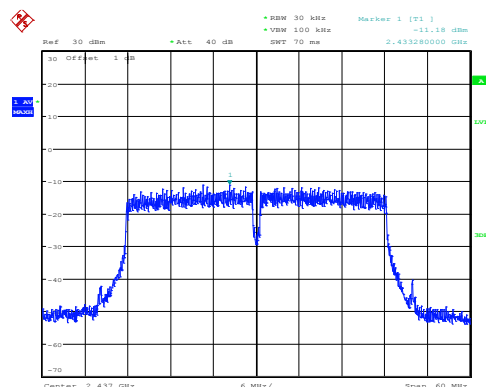
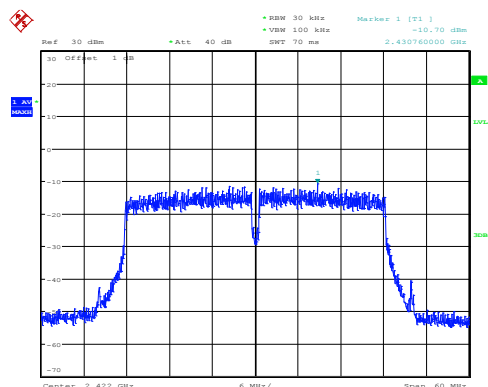
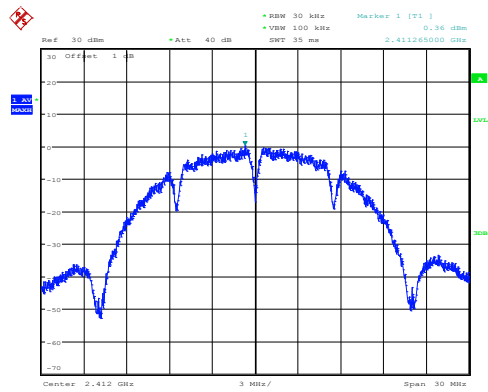
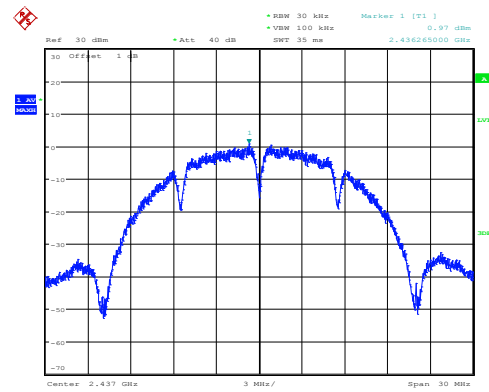


Table 31 Maximum Power Spectral Density Level Test Data 802.11b @Ant 2

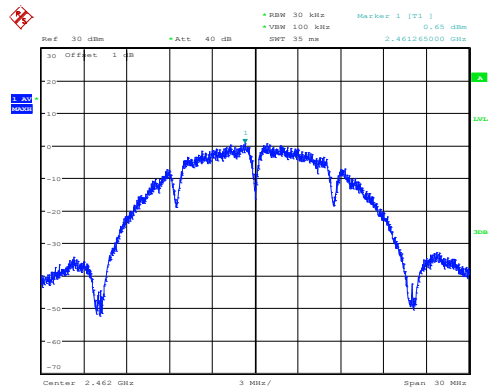
Center Freq.[MHz]	Meas.Level [dBm]	Duty Factor	Maximum Power Spectral Density [dBm]	Limit [dBm]	Result
2412	0.36	0	0.36	8	Pass
2437	0.97	0	0.97	8	Pass
2462	0.65	0	0.65	8	Pass



Date: 12.JUL.2016 16:05:04



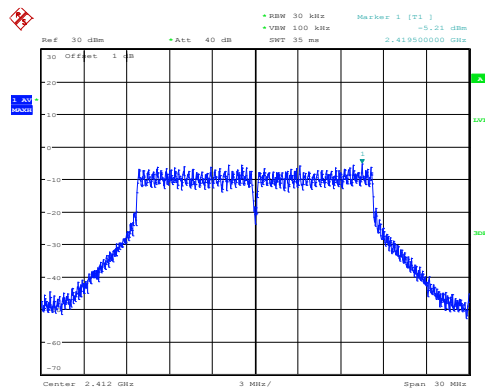
Date: 12.JUL.2016 16:05:41



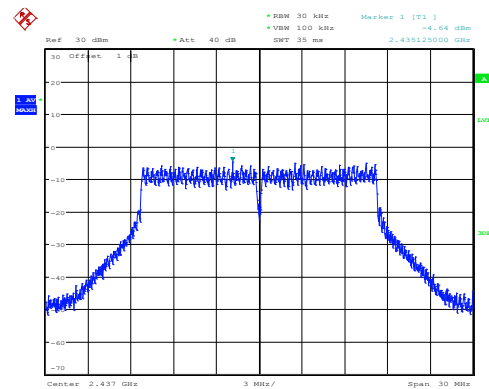
Date: 12.JUL.2016 16:06:14

Table 32 Maximum Power Spectral Density Level Test Data 802.11g @Ant 2

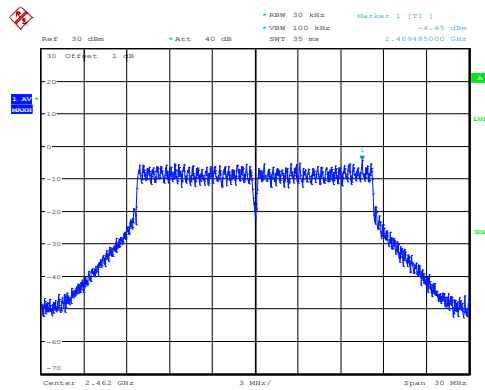
Center Freq.[MHz]	Meas.Level [dBm]	Duty Factor	Maximum Power Spectral Density [dBm]	Limit [dBm]	Result
2412	-5.21	0.34	-4.87	8	Pass
2437	-4.64	0.34	-4.30	8	Pass
2462	-4.45	0.34	-4.11	8	Pass



Date: 12.JUL.2016 16:07:24



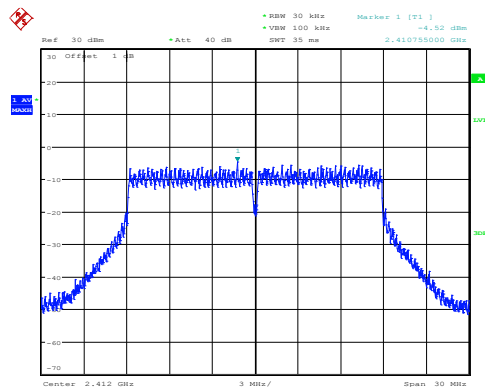
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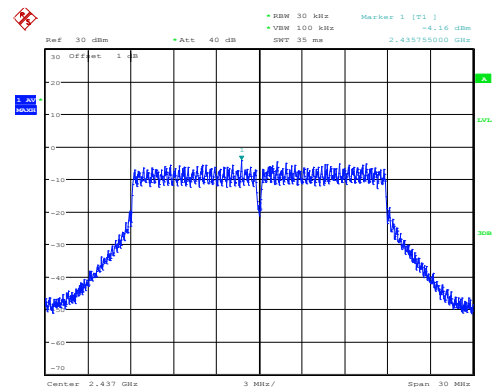
Date: 12.JUL.2016 16:08:07

Table 33 Maximum Power Spectral Density Level Test Data 802.11n HT20 @Ant 2

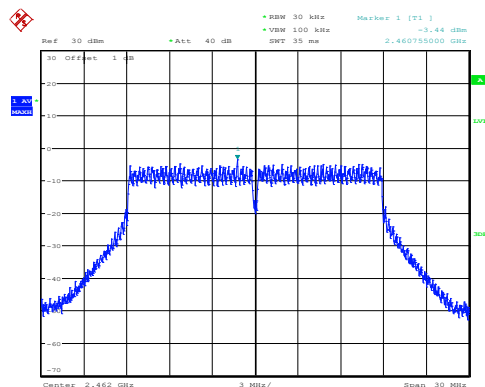
Center Freq.[MHz]	Meas.Level [dBm]	Duty Factor	Maximum Power Spectral Density [dBm]	Limit [dBm]	Result
2412	-4.52	0.26	-4.26	8	Pass
2437	-4.16	0.26	-3.90	8	Pass
2462	-3.44	0.26	-3.18	8	Pass



Date: 12.JUL.2016 16:09:12



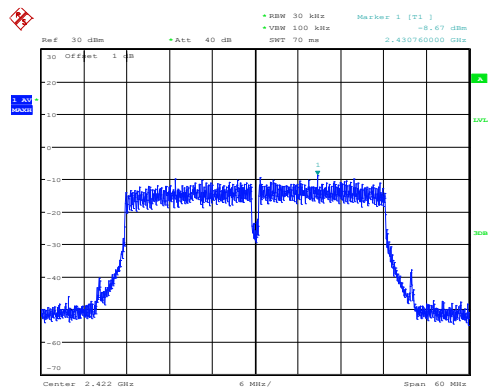
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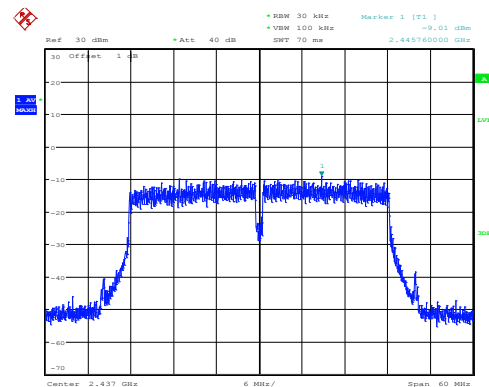
Date: 12.JUL.2016 16:10:25

Table 34 Maximum Power Spectral Density Level Test Data 802.11n HT40 @Ant 2

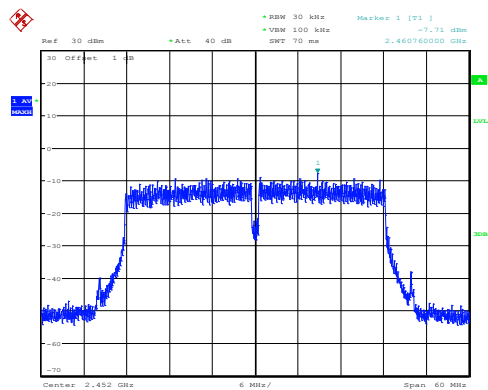
Center Freq.[MHz]	Meas.Level [dBm]	Duty Factor	Maximum Power Spectral Density [dBm]	Limit [dBm]	Result
2422	-8.67	0.49	-8.18	8	Pass
2437	-9.01	0.49	-8.52	8	Pass
2452	-7.71	0.49	-7.22	8	Pass



Date: 12.JUL.2016 16:11:34



Date: 12.JUL.2016 16:11:55



Date: 12.JUL.2016 16:12:27

Table 35 Maximum Power Spectral Density Level Test Data 802.11b @ Ant 1+Ant 2

Center Freq.[MHz]	Maximum Power Spectral Density [dBm]	Limit [dBm]	Result
2412	3.48	8	Pass
2437	3.91	8	Pass
2462	3.84	8	Pass

Table 36 Maximum Power Spectral Density Level Test Data 802.11g @ Ant 1+Ant 2

Center Freq.[MHz]	Maximum Power Spectral Density [dBm]	Limit [dBm]	Result
2412	-2.41	8	Pass
2437	-1.80	8	Pass
2462	-1.80	8	Pass

Table 37 Maximum Power Spectral Density Level Test Data 802.11n HT20 @ Ant 1+Ant 2

Center Freq.[MHz]	Maximum Power Spectral Density [dBm]	Limit [dBm]	Result
2412	-1.86	8	Pass
2437	-1.64	8	Pass
2462	-1.20	8	Pass

Table 38 Maximum Power Spectral Density Level Test Data 802.11n HT40 @ Ant 1+Ant 2

Center Freq.[MHz]	Maximum Power Spectral Density [dBm]	Limit [dBm]	Result
2412	-6.07	8	Pass
2437	-6.45	8	Pass
2462	-2.28	8	Pass

9. CONDUCTED BANDEGE AND SPURIOUS MEASUREMENT

9.1.LIMITS OF Conducted Bandedge and Spurious Measurement

CFR 47 (FCC) part 15.247 (d) and 558074 D01 DTS Meas Guidance v03r05

9.2.TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer.

Establish a reference level by using the following procedure:

- a)Set instrument center frequency to DTS channel center frequency.
- b)Set the span to ≥ 1.5 times the DTS bandwidth.
- c)Set the RBW = 100 kHz.
- d)Set the VBW $\geq 3 \times$ RBW.
- e)Detector = peak.
- f)Sweep time = auto couple.
- g)Trace mode = max hold.
- h)Allow trace to fully stabilize.
- i)Use the peak marker function to determine the maximum PSD level.

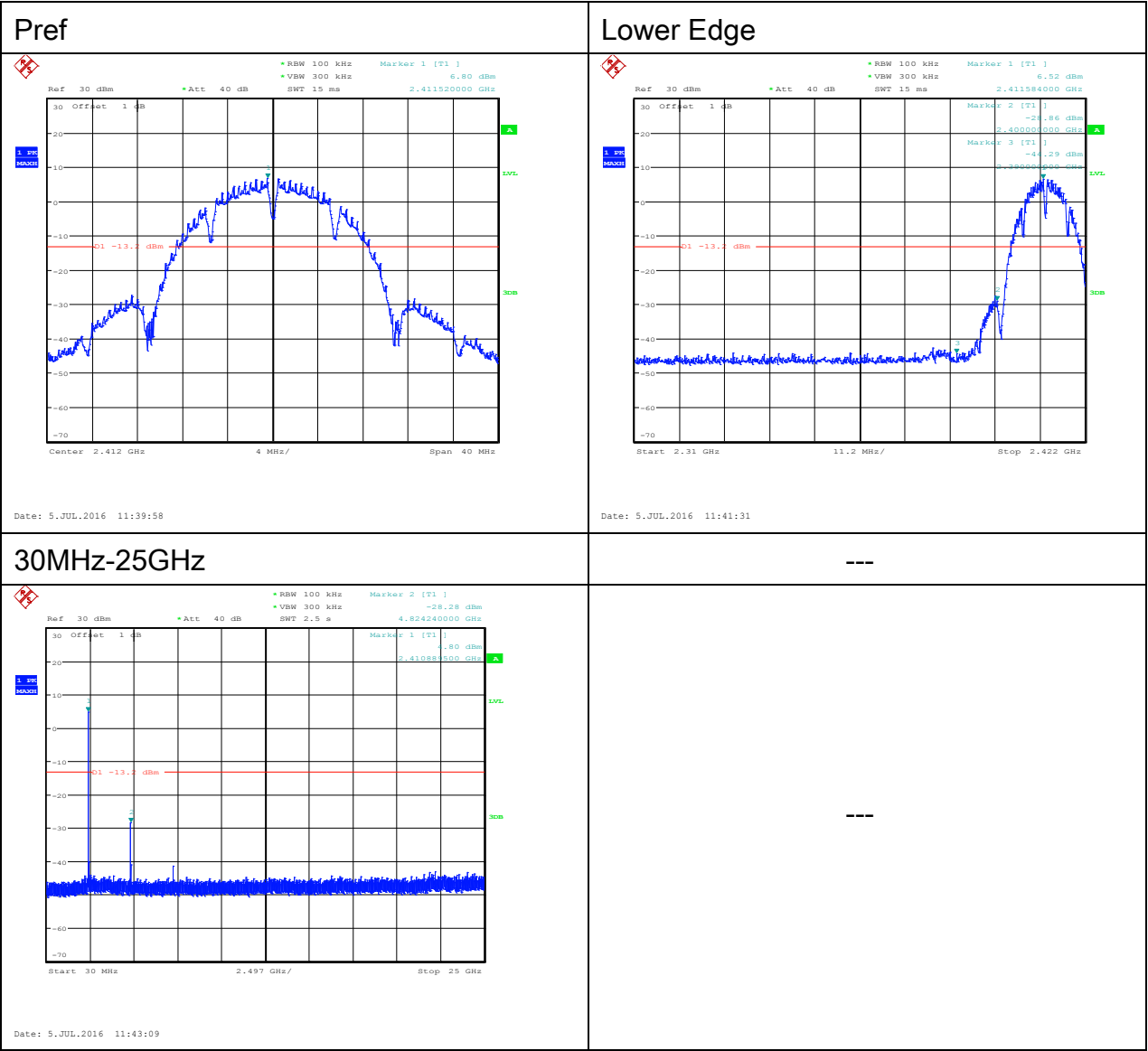
Emission level measurement

- a)Set the center frequency and span to encompass frequency range to be measured.
- b)Set the RBW = 100 kHz.
- c)Set the VBW $\geq 3 \times$ RBW.
- d)Detector = peak.
- e)Ensure that the number of measurement points $\geq$ span/RBW
- f)Sweep time = auto couple.
- g)Trace mode = max hold.
- h)Allow trace to fully stabilize.
- i)Use the peak marker function to determine the maximum amplitude level.

Test Result : ALL emission outside of 2400-2483.5 are lower at least 30dB than fundamental frequency.

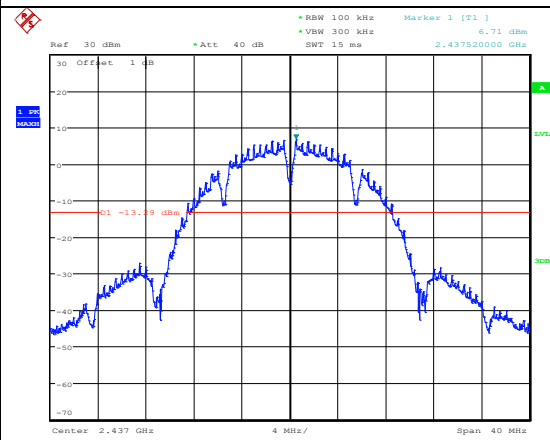
9.3.TEST DATA

802.11b CH1 @Ant 1



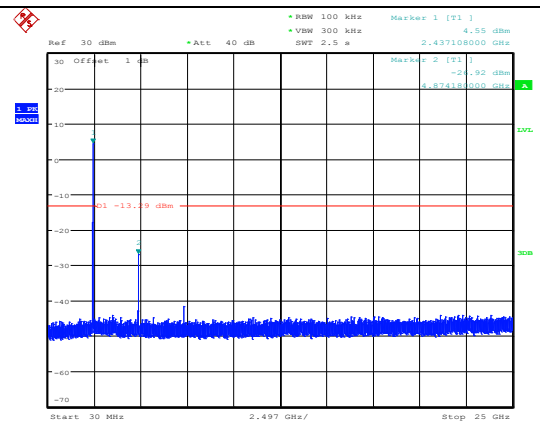
802.11b CH6 @Ant 1

Pref



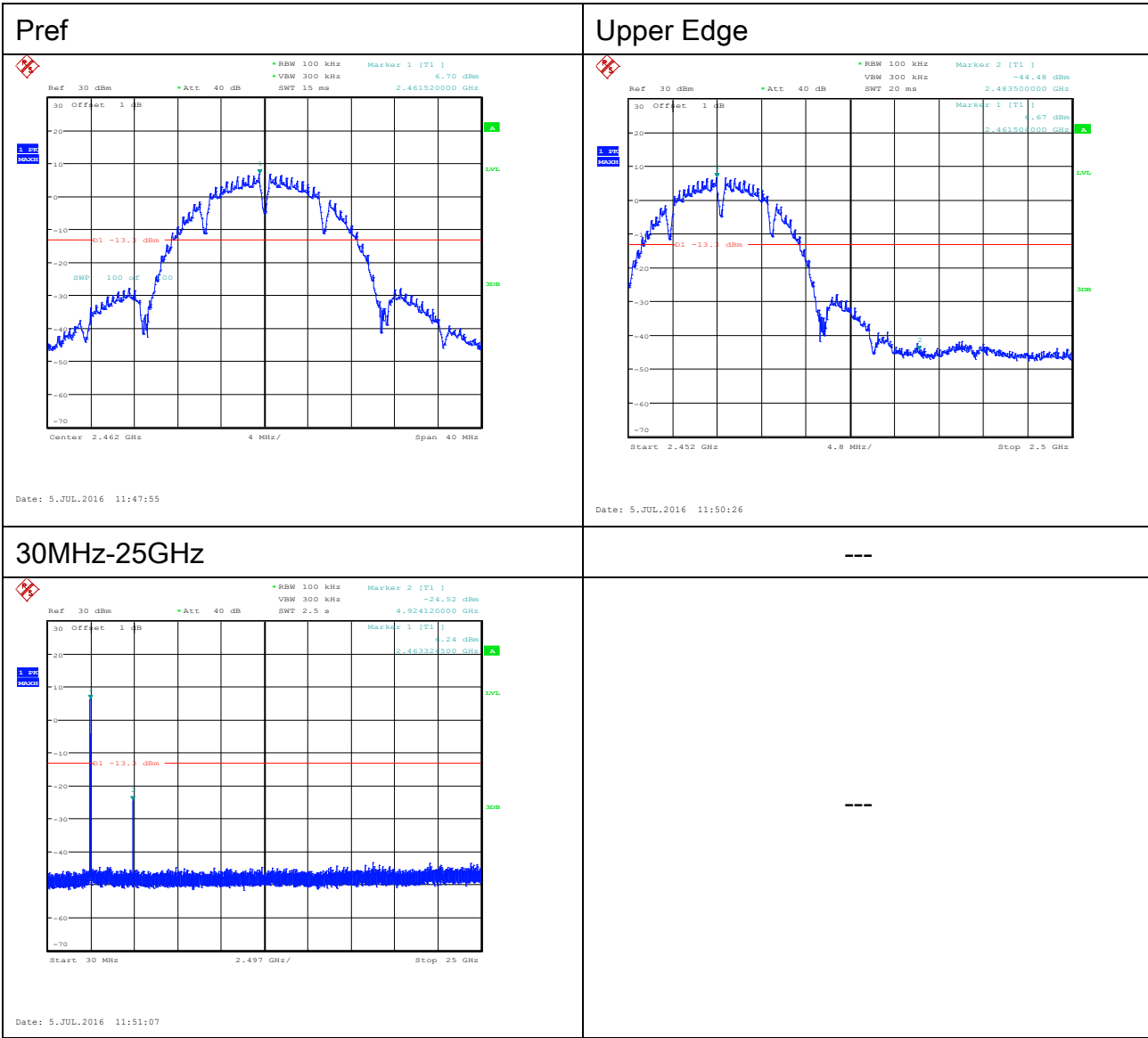
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30MHz-25GHz

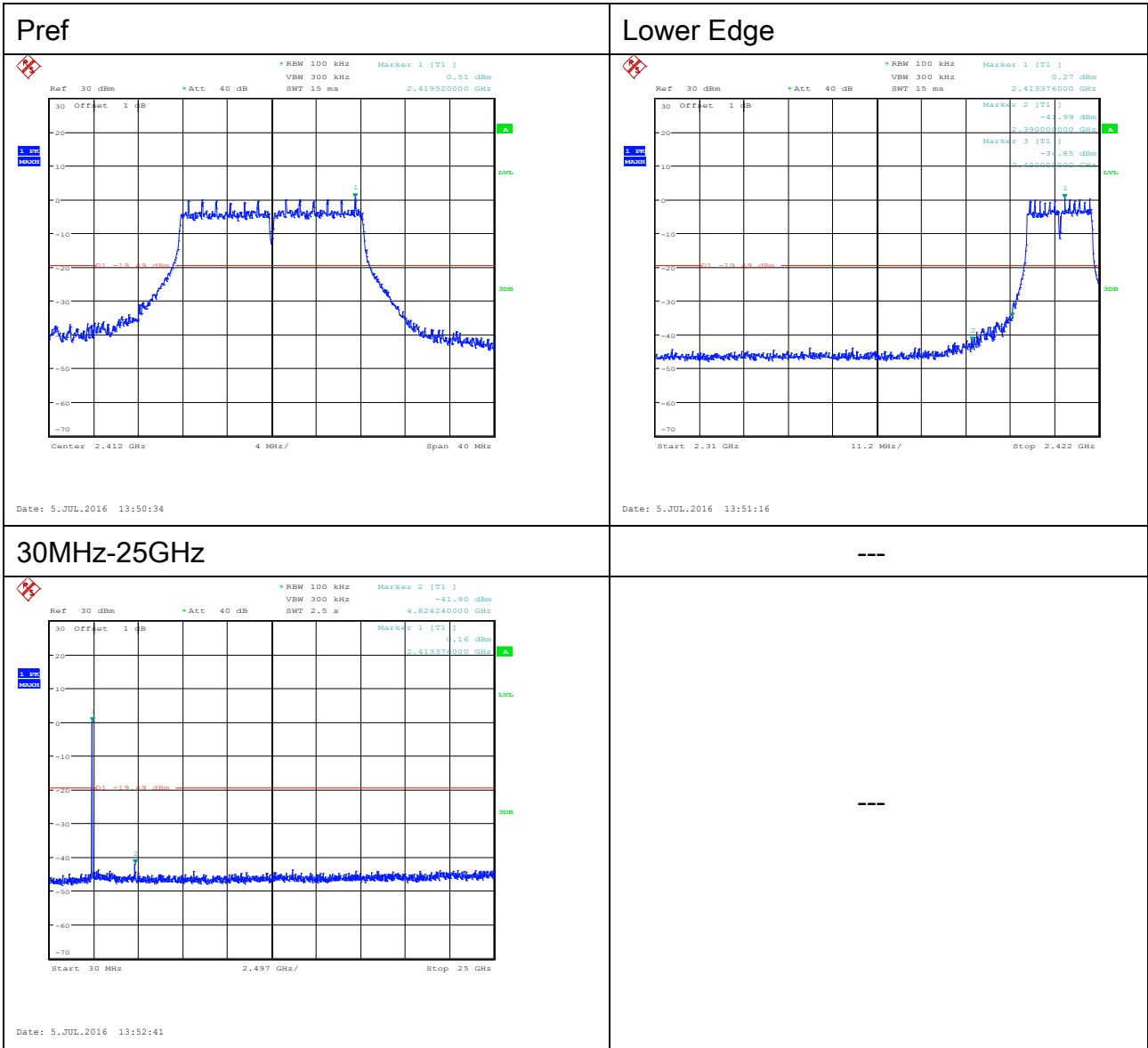


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802.11b CH11 @Ant 1

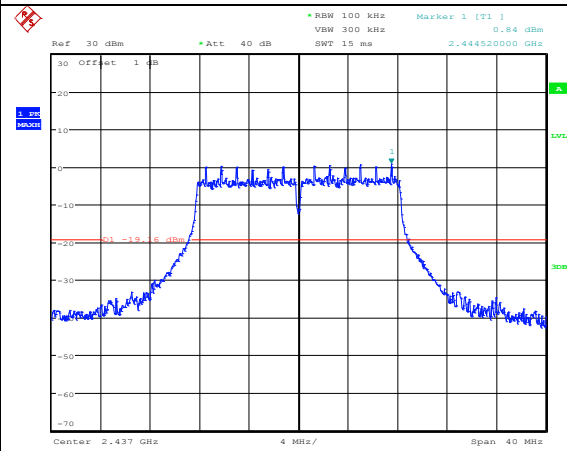


802.11g CH1 @Ant 1



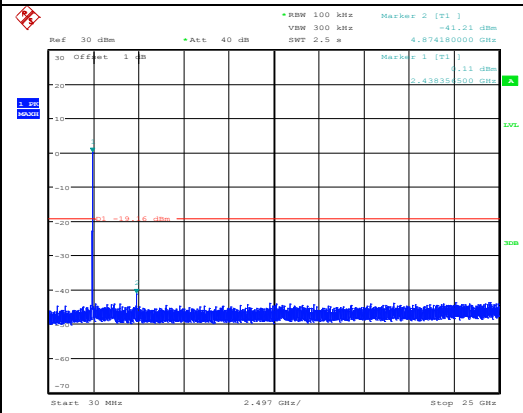
802.11g CH6 @ Ant 1

Pref



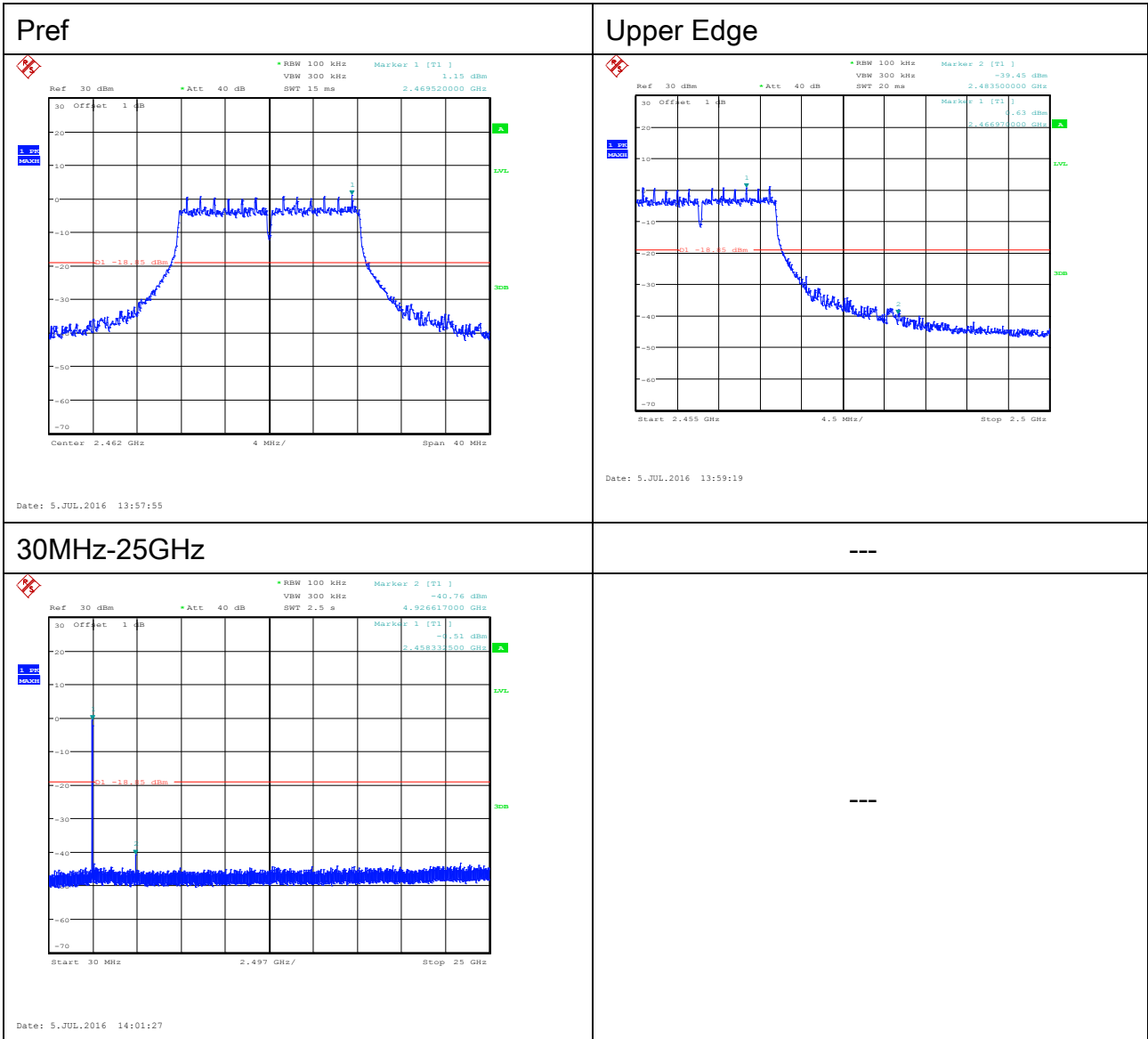
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30MHz-25GHz

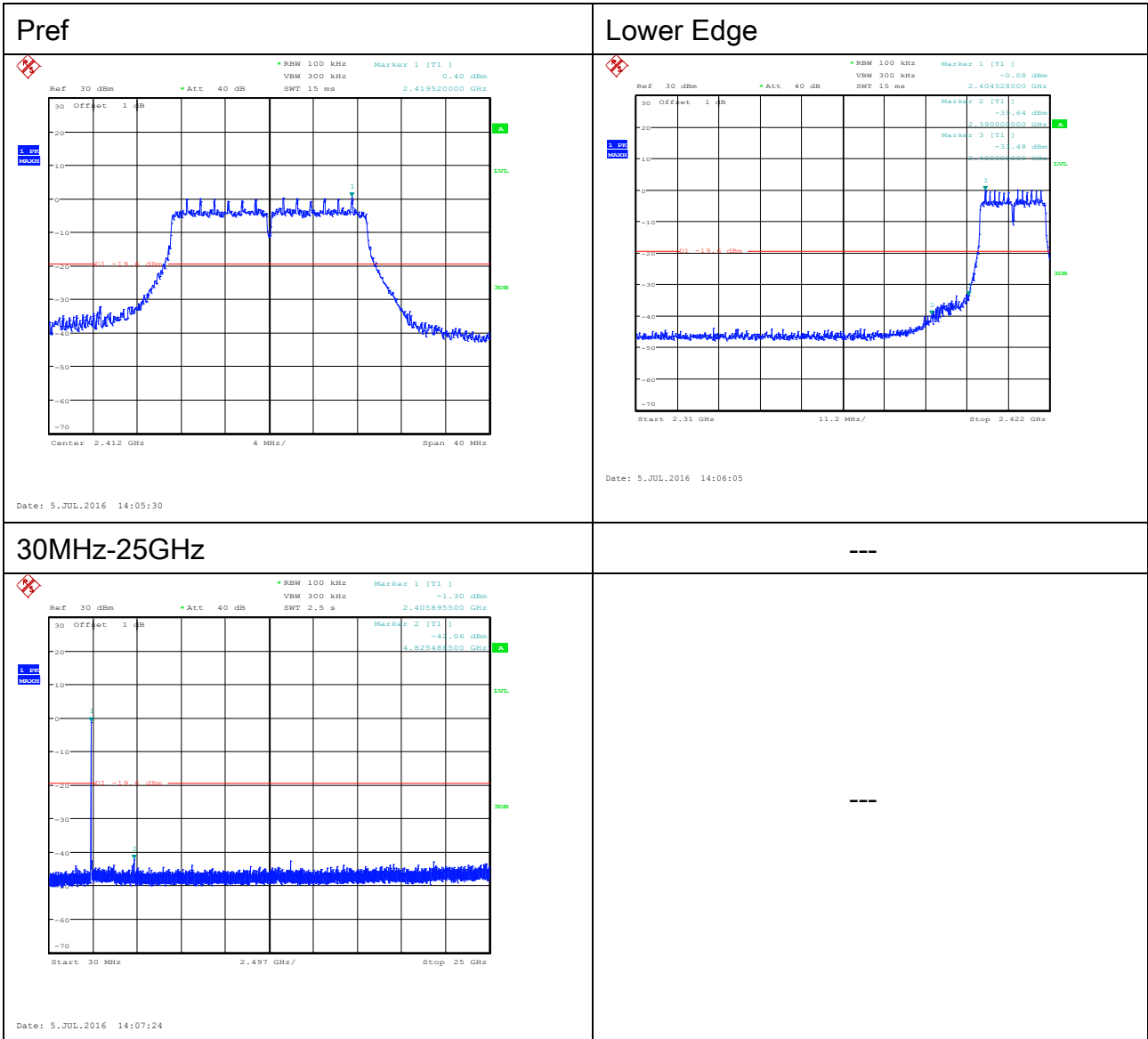


Date: 5.JUL.2016 13:56:40

802.11g CH11 @Ant 1

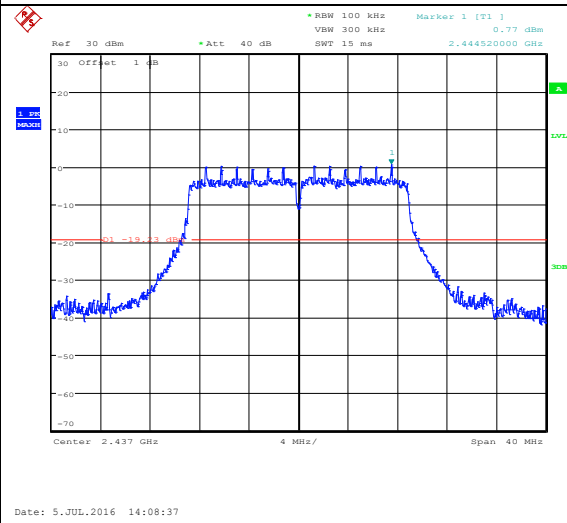


802.11n HT20 CH1 @Ant 1

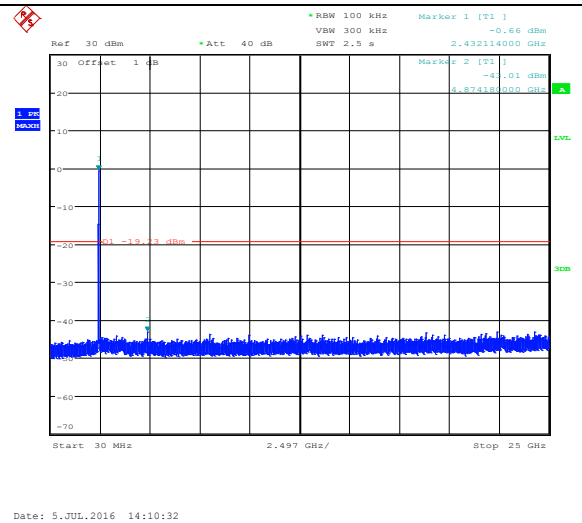


802.11n HT20 CH6 @Ant 1

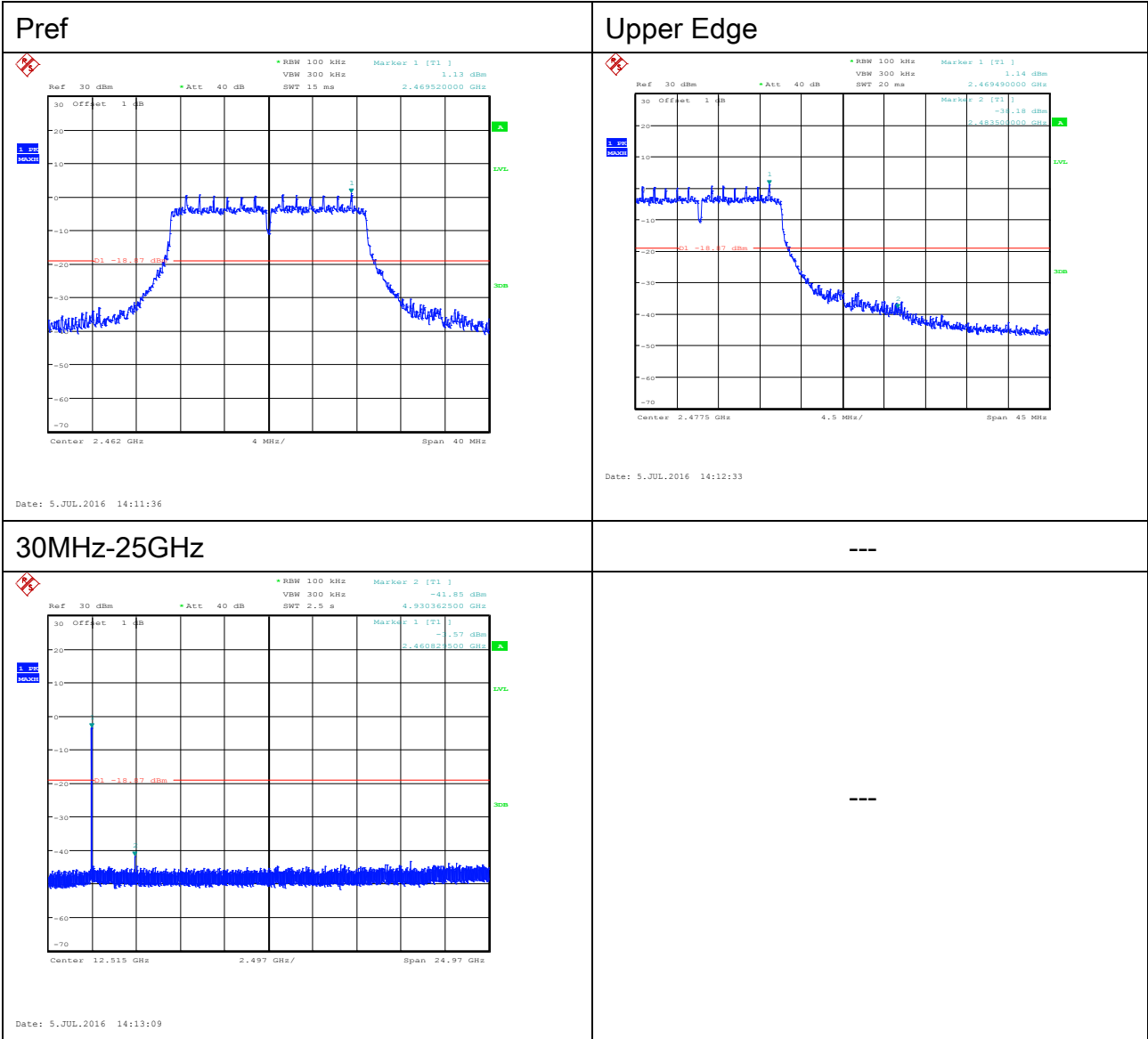
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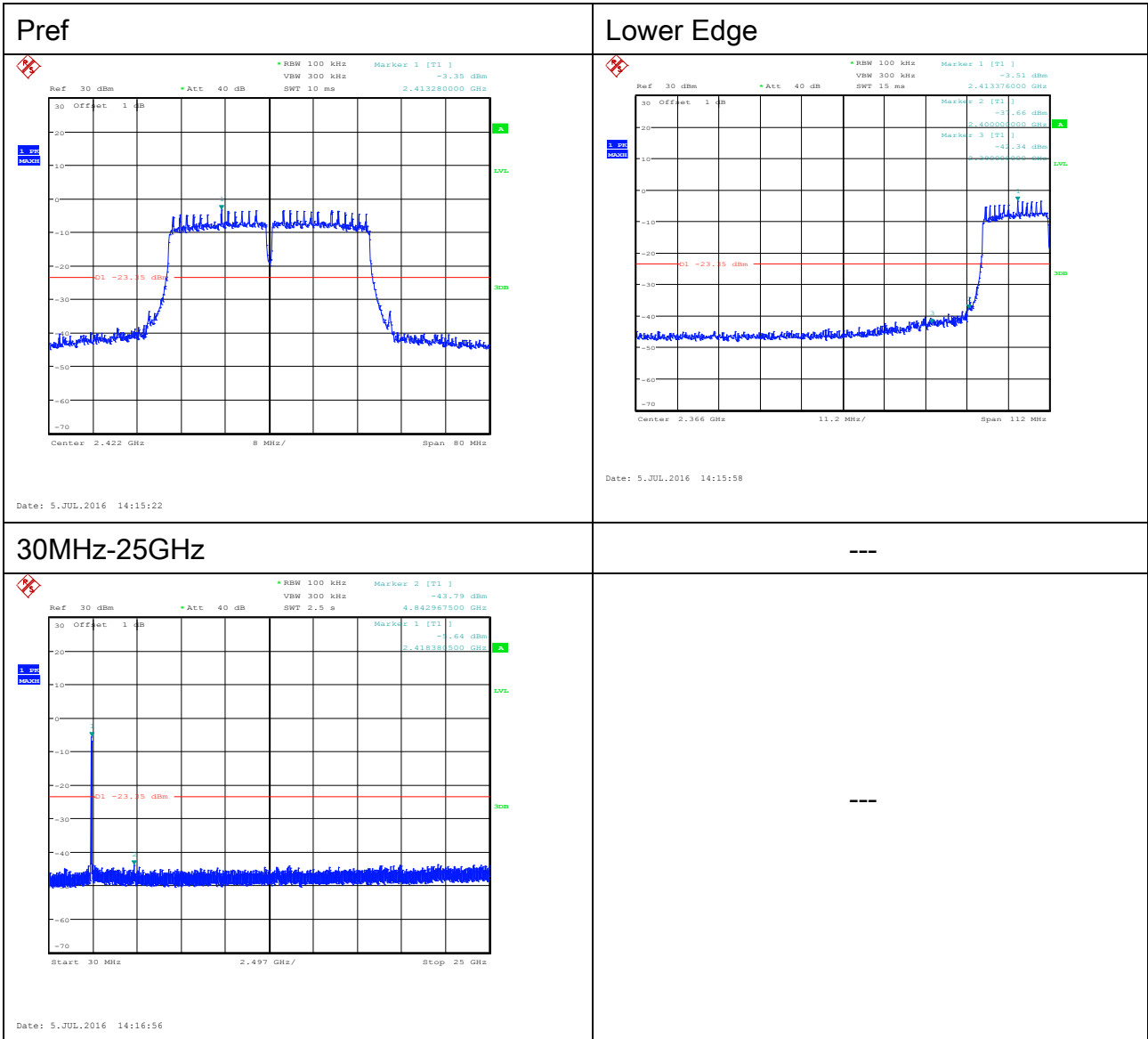
30MHz-25GHz



802.11n HT20 CH11 @Ant 1

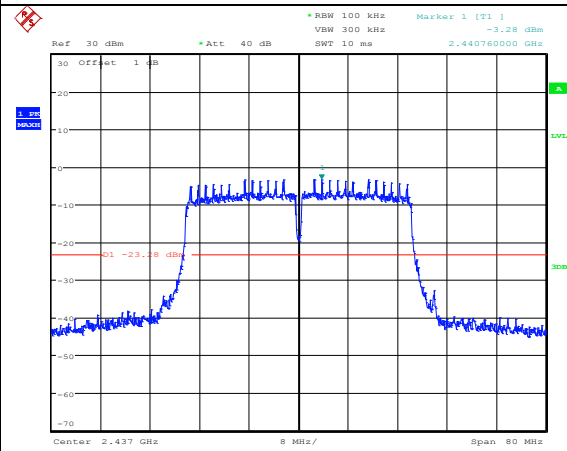


802.11n HT40 CH3 @Ant 1



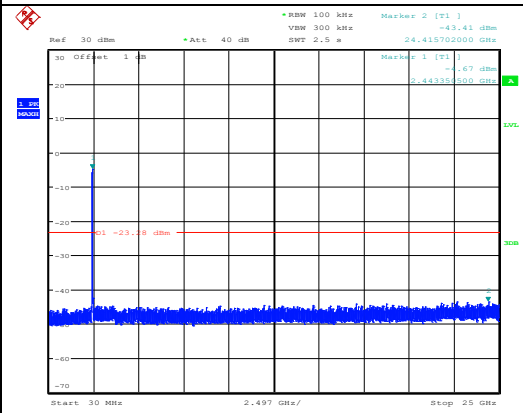
802.11n HT40 CH6 @Ant 1

Pref



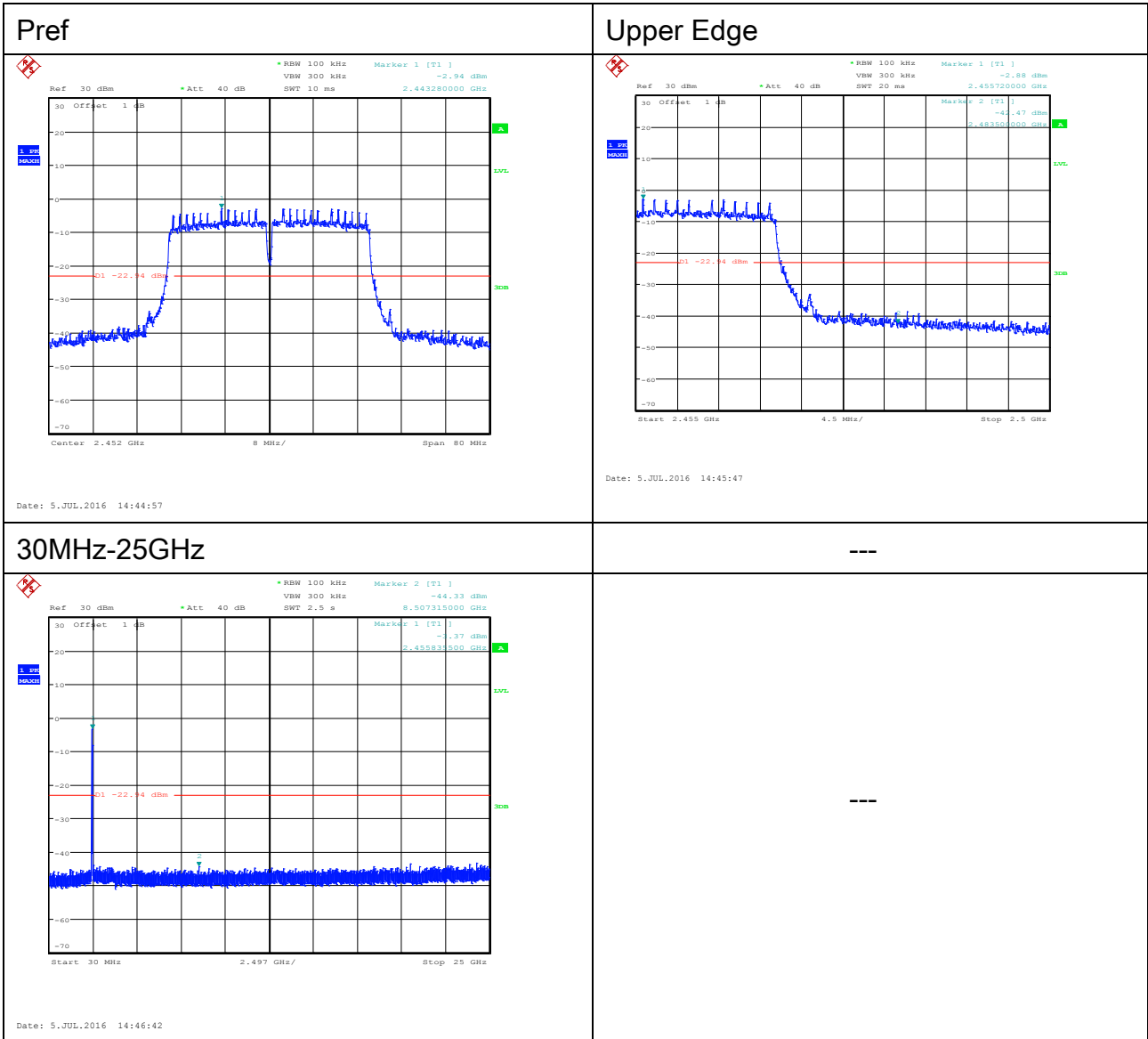
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30MHz-25GHz

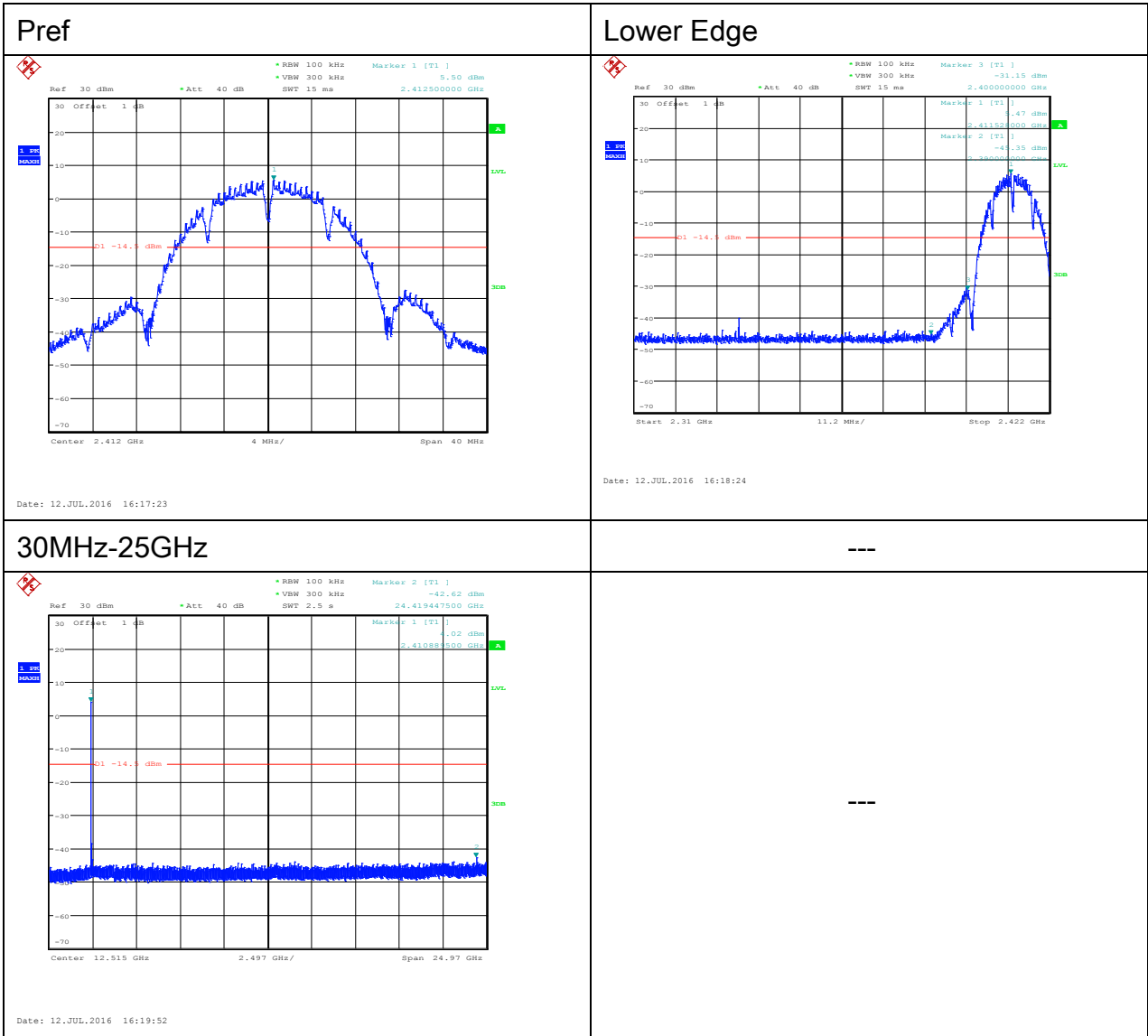


Date: 5.JUL.2016 14:19:04

802.11n HT40 CH9 @Ant 1

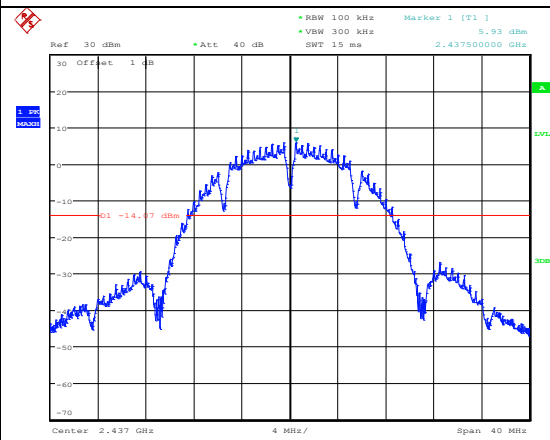


802.11b CH1 @Ant 2



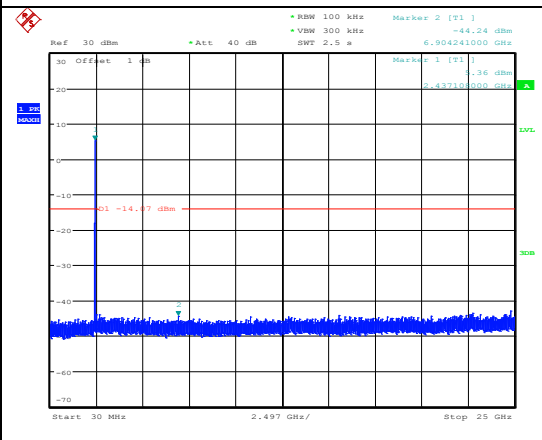
802.11b CH6 @Ant 2

Pref



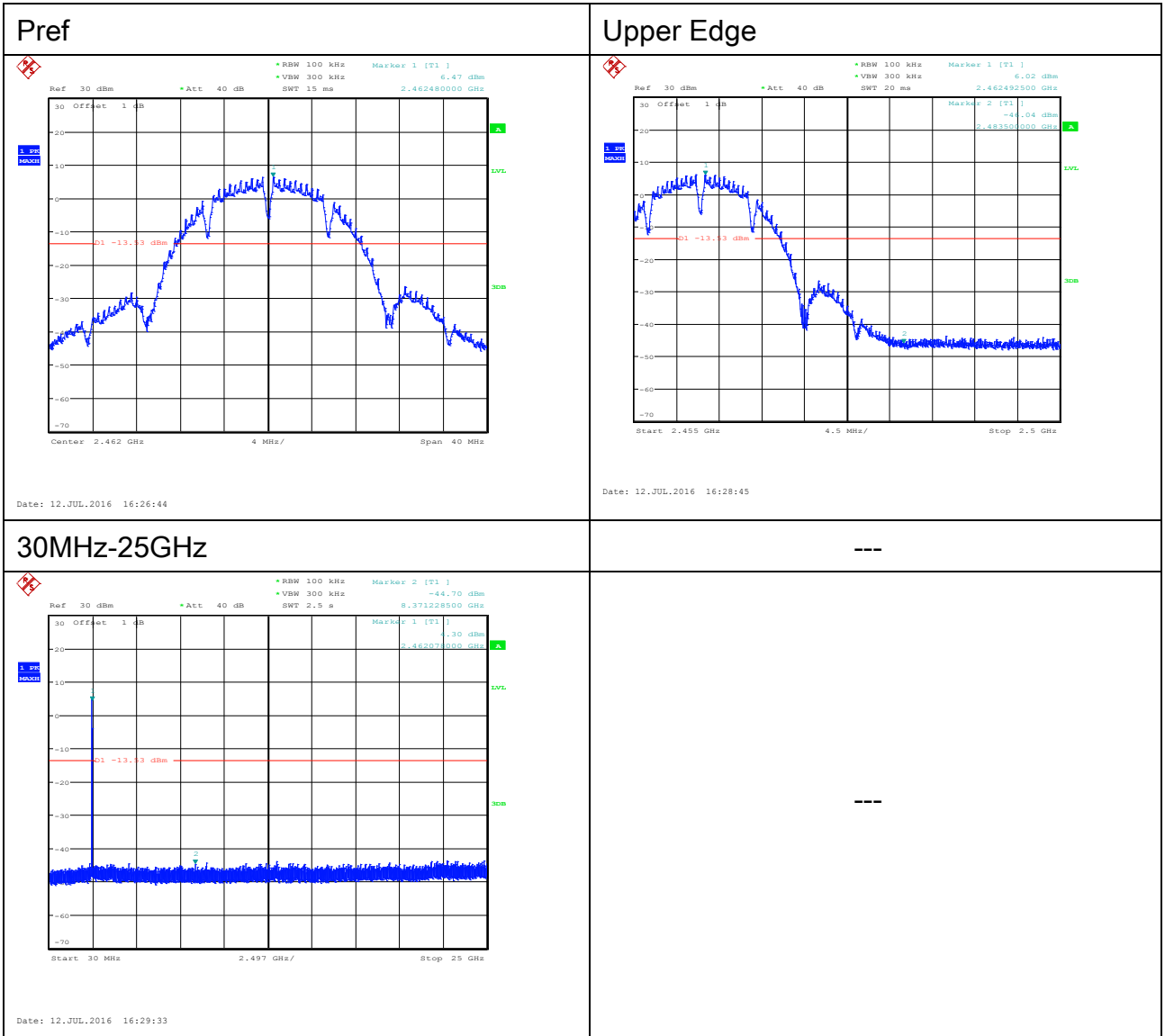
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30MHz-25GHz

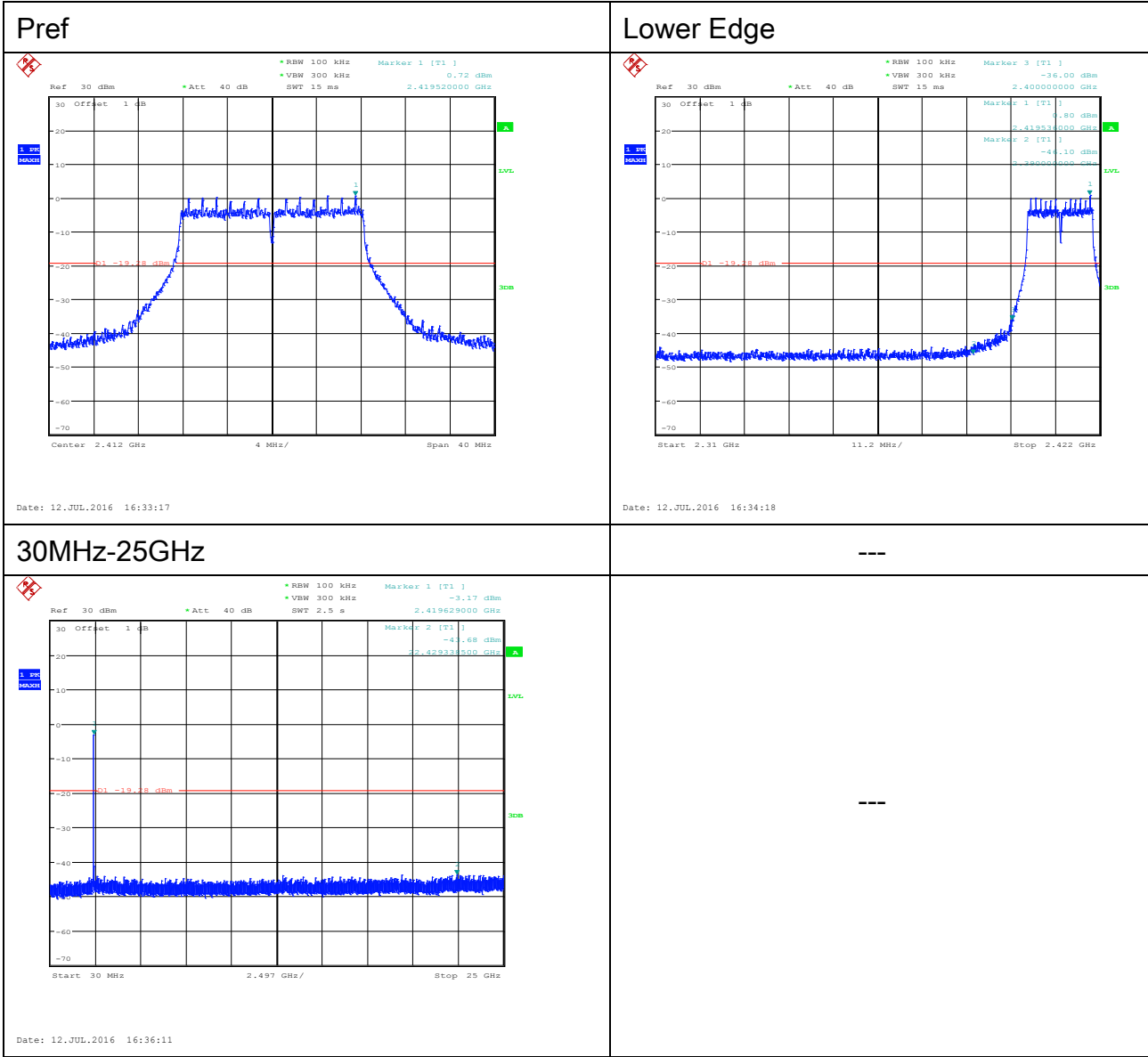


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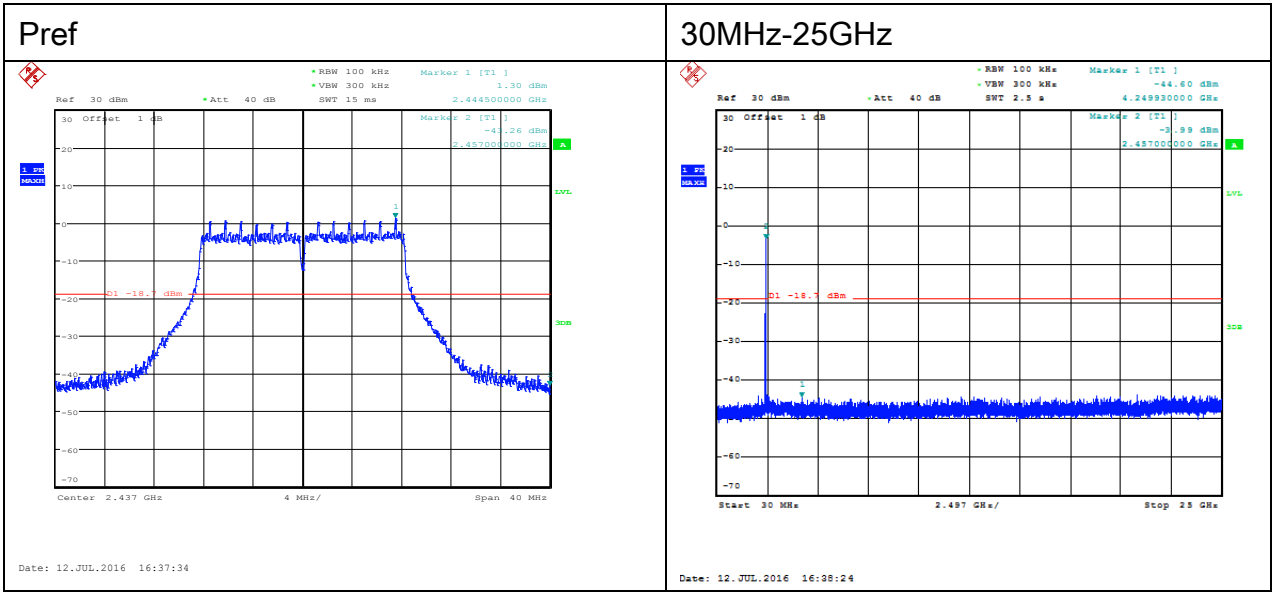
802.11b CH11 @Ant 2



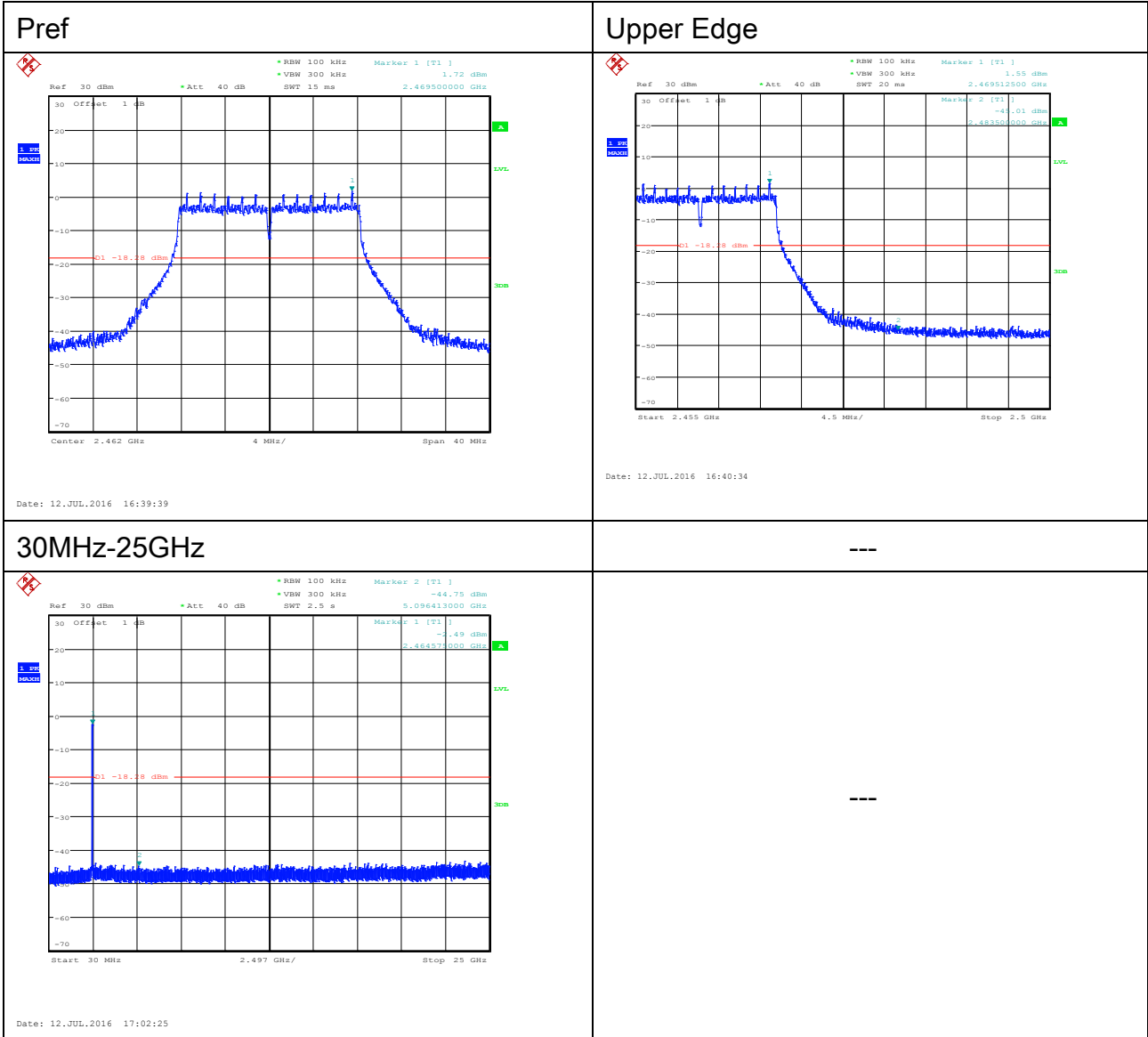
802.11g CH1 @Ant 2



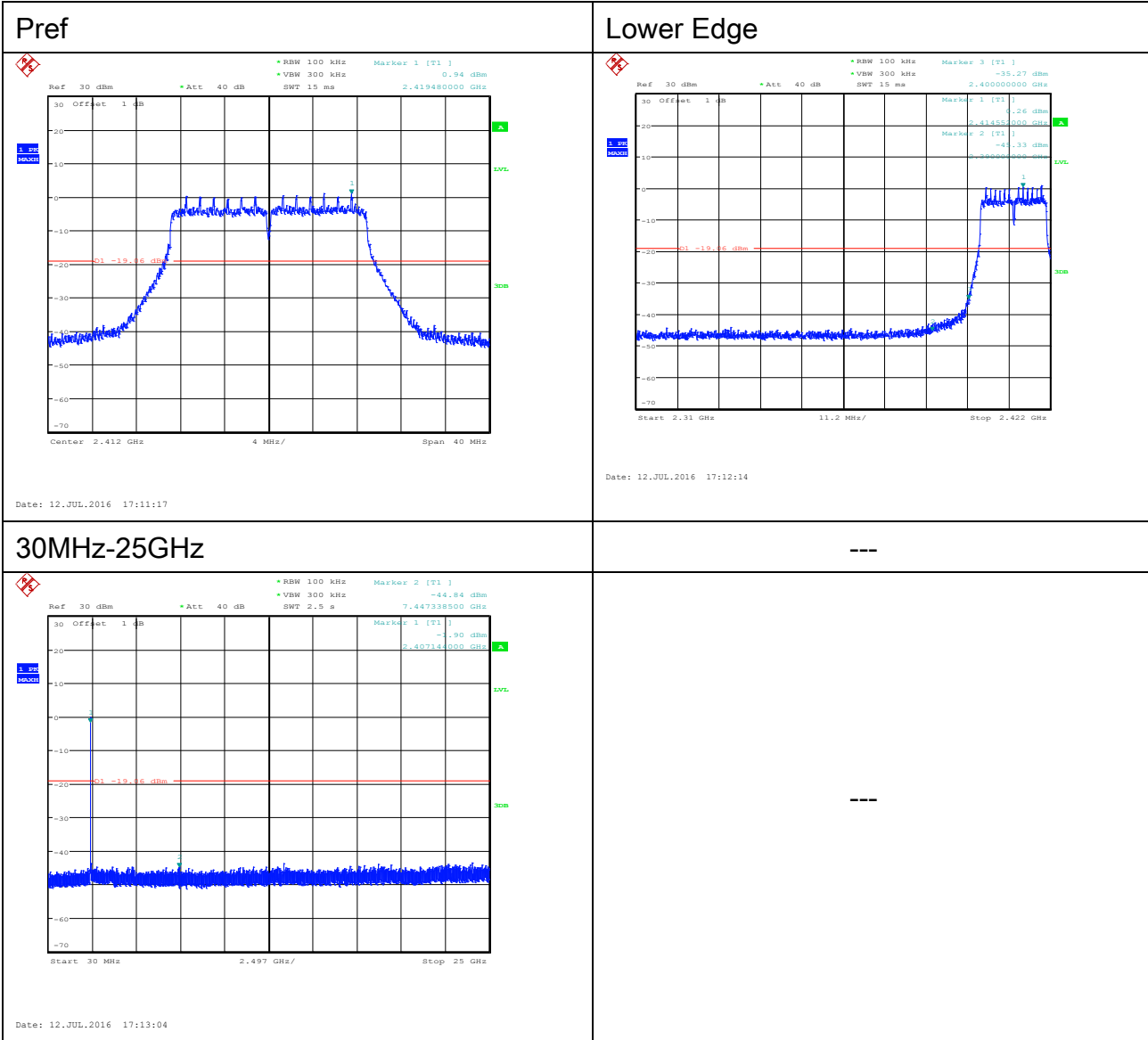
802.11g CH6 @ Ant 2



802.11g CH11 @Ant 2

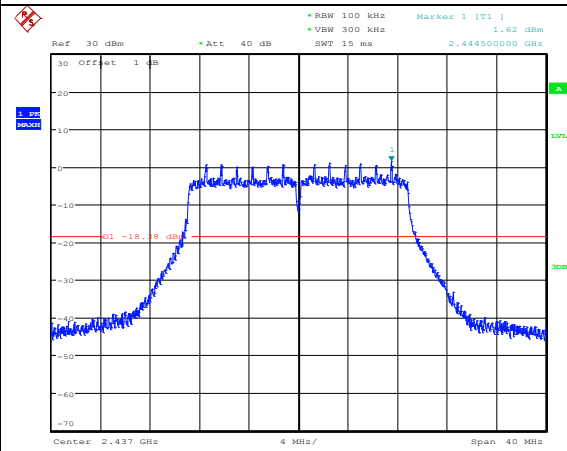


802.11n HT20 CH1 @Ant 2



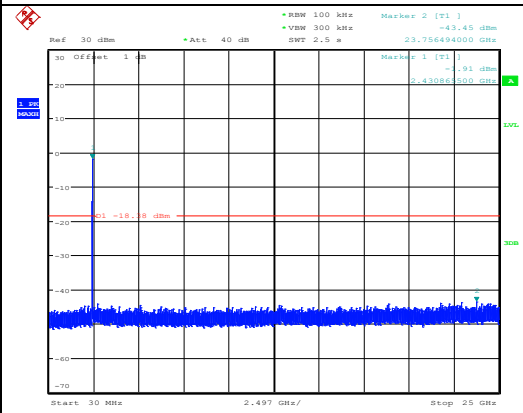
802.11n HT20 CH6 @Ant 2

Pref



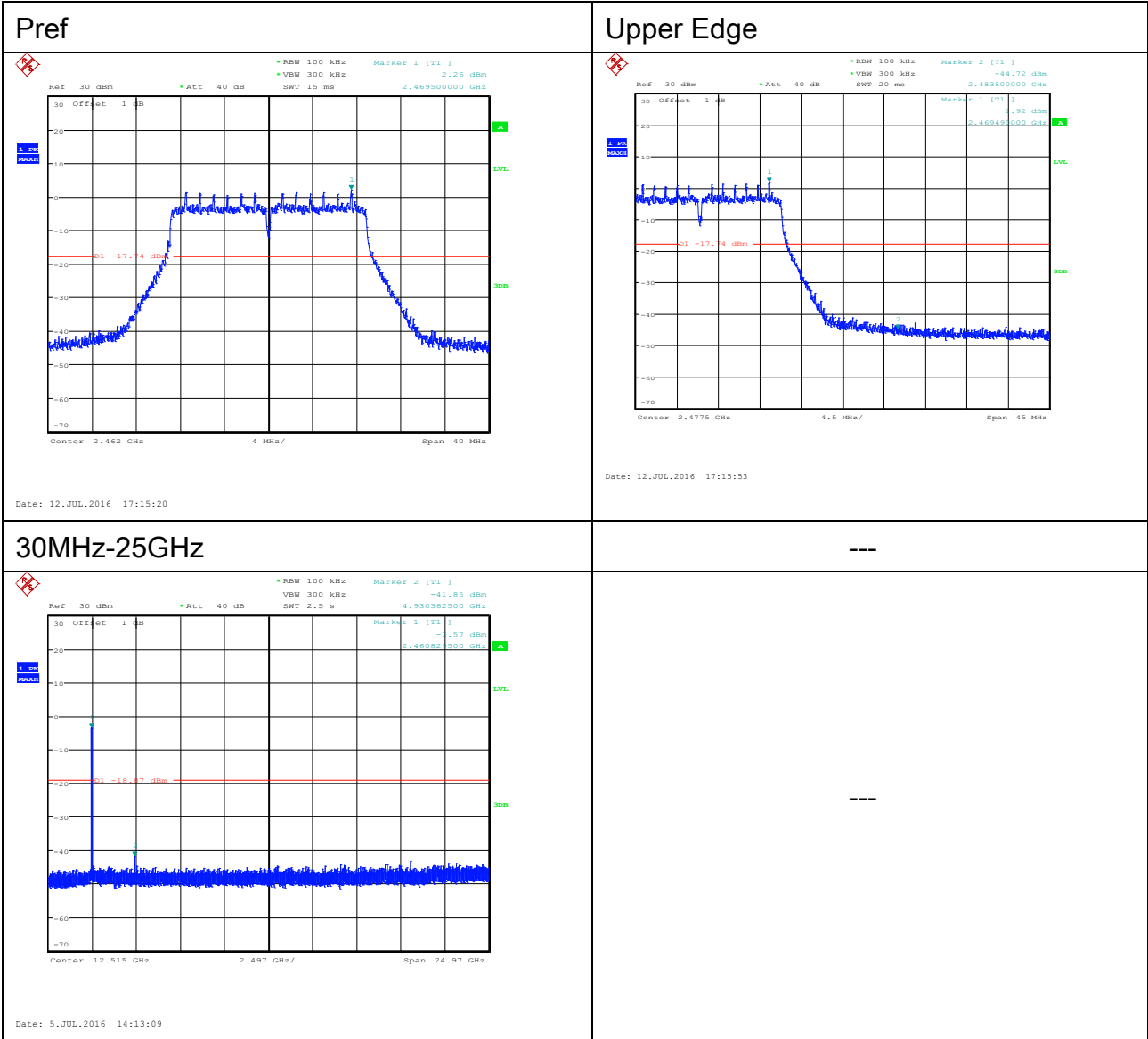
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30MHz-25GHz

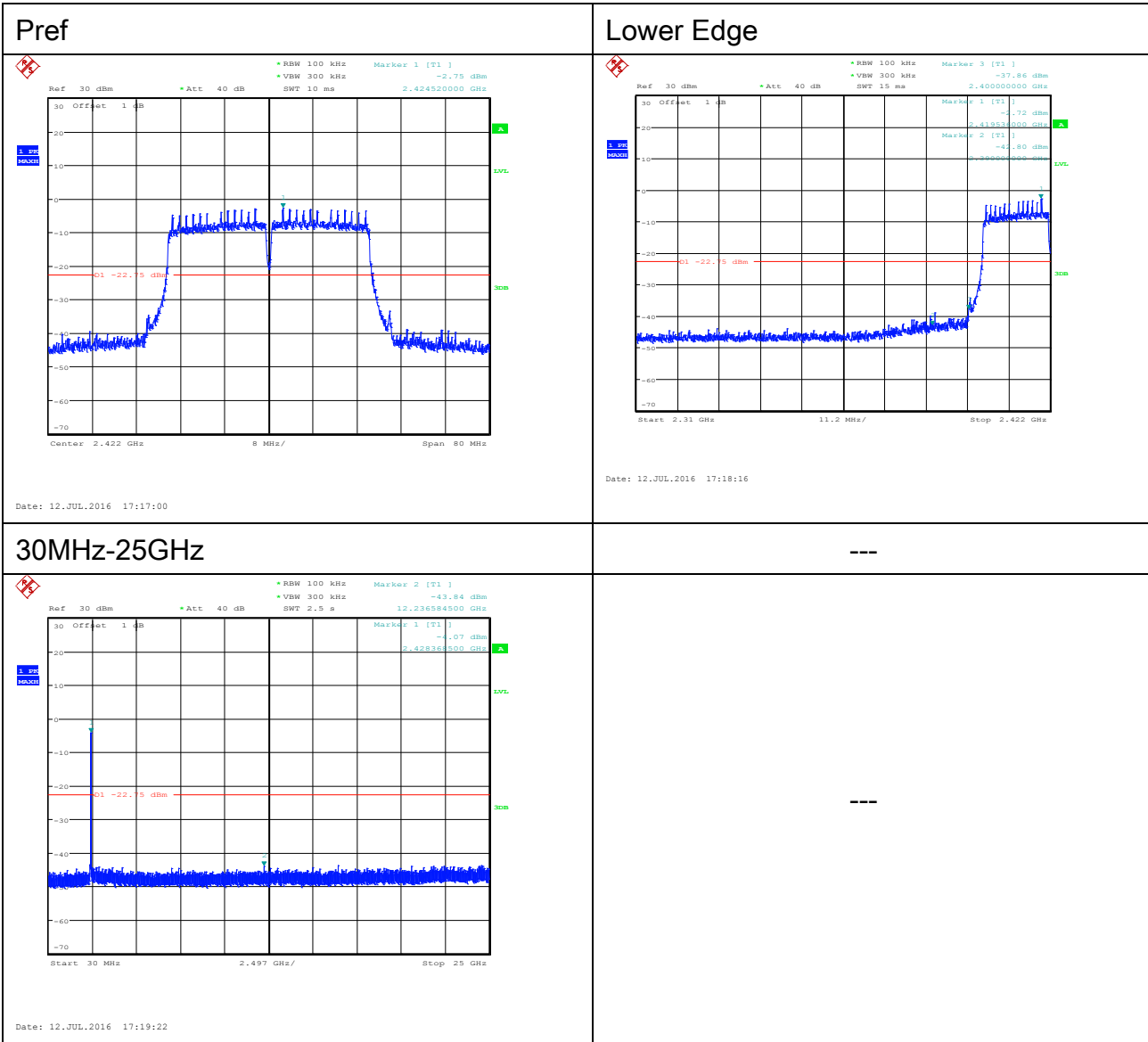


Date: 12.JUL.2016 17:14:27

802.11n HT20 CH11 @Ant 2

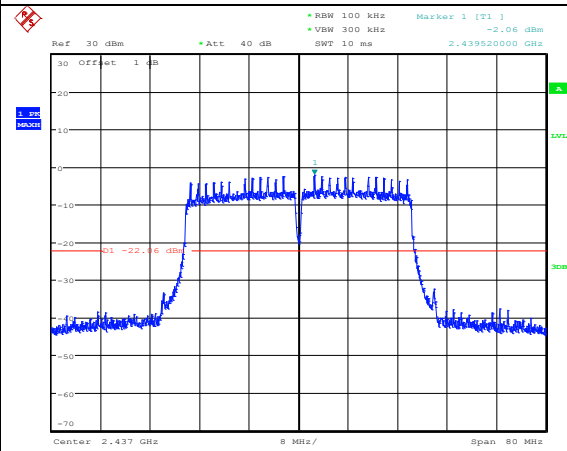


802.11n HT40 CH3 @Ant 2



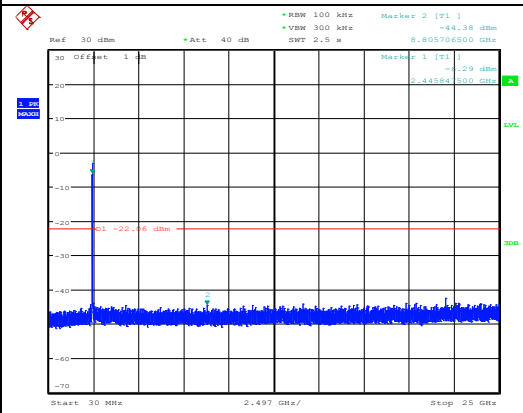
802.11n HT40 CH6 @Ant 2

Pref



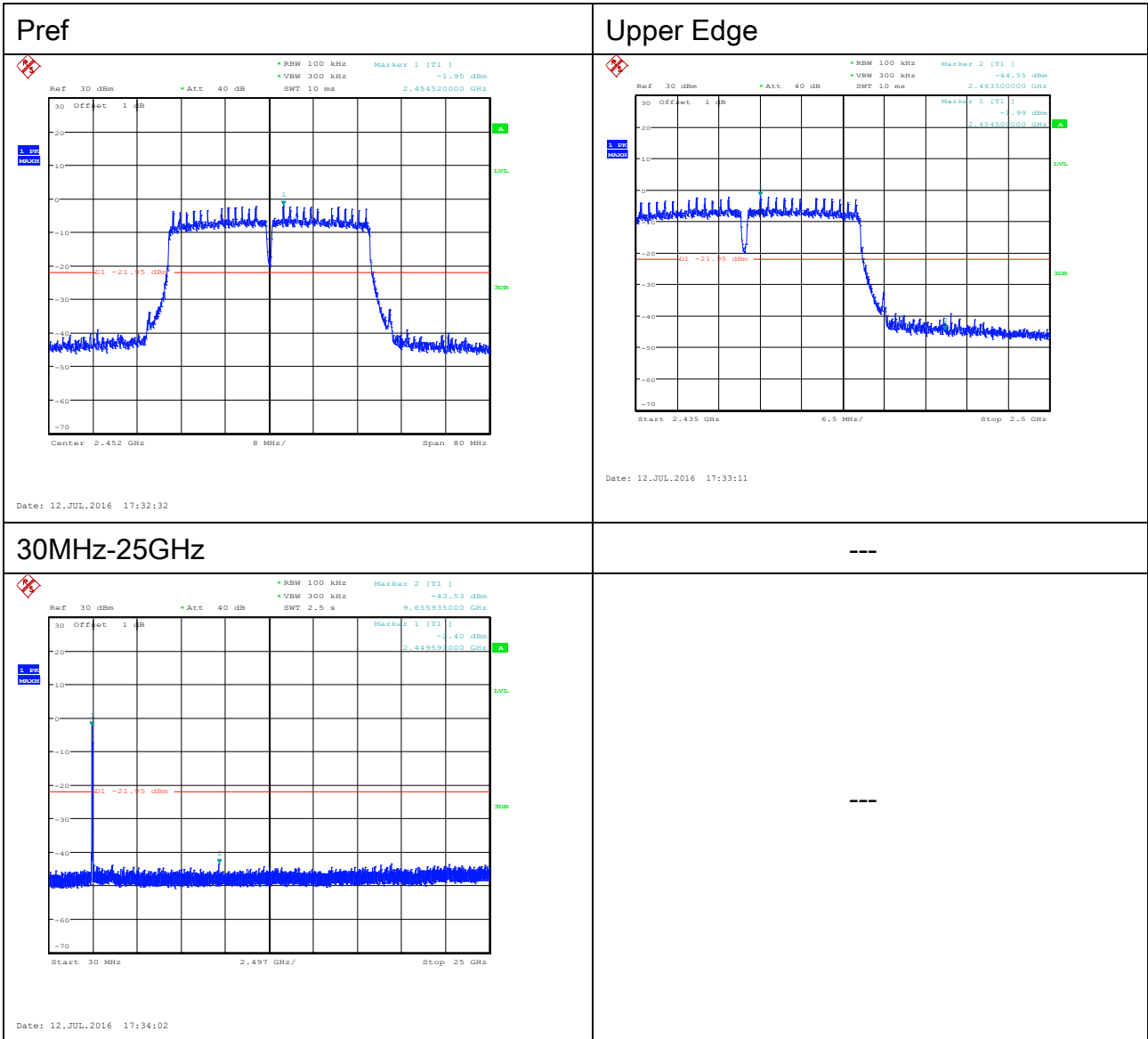
Date: 12.JUL.2016 17:30:47

30MHz-25GHz



Date: 12.JUL.2016 17:31:43

802.11n HT40 CH9 @Ant 2



10. RADIATED BANDEGE AND SPURIOUS MEASUREMENT

10.1. LIMITS OF Radiated Bandedge and Spurious Measurement

CFR 47 (FCC) part 15.247 (d) and 558074 D01 DTS Meas Guidance v03r05
RSS-247 Clause 5.5

10.2. TEST PROCEDURE

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. For measurement below 1GHz, the EUT was placed on a turntable with 0.8 meter, above ground. For measurement above 1 GHz, test at FAR, the EUT is placed on a non-conductive table, which is 1.5 meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f > 1$ GHz for peak measurement. Set RBW = 1 MHz, and 1/T (on time) for average measurement.

10.3.TEST DATA

9KHz-30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

Table 39 Radiated Emission Test Data 9k Hz-30MHz

Frequency MHz	Cable Loss(dB)	Antenna Factor(dB)	Readings(dBμV/m)	Level(dBμV/m)	Polarity(H/V)	Turntable Angle(deg)	Antenna Height(m)	Limits(dBμV/m)	Margin(dB)
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--

30MHz-1GHz

Worst case is shown below for 30MHz-1GHz only.

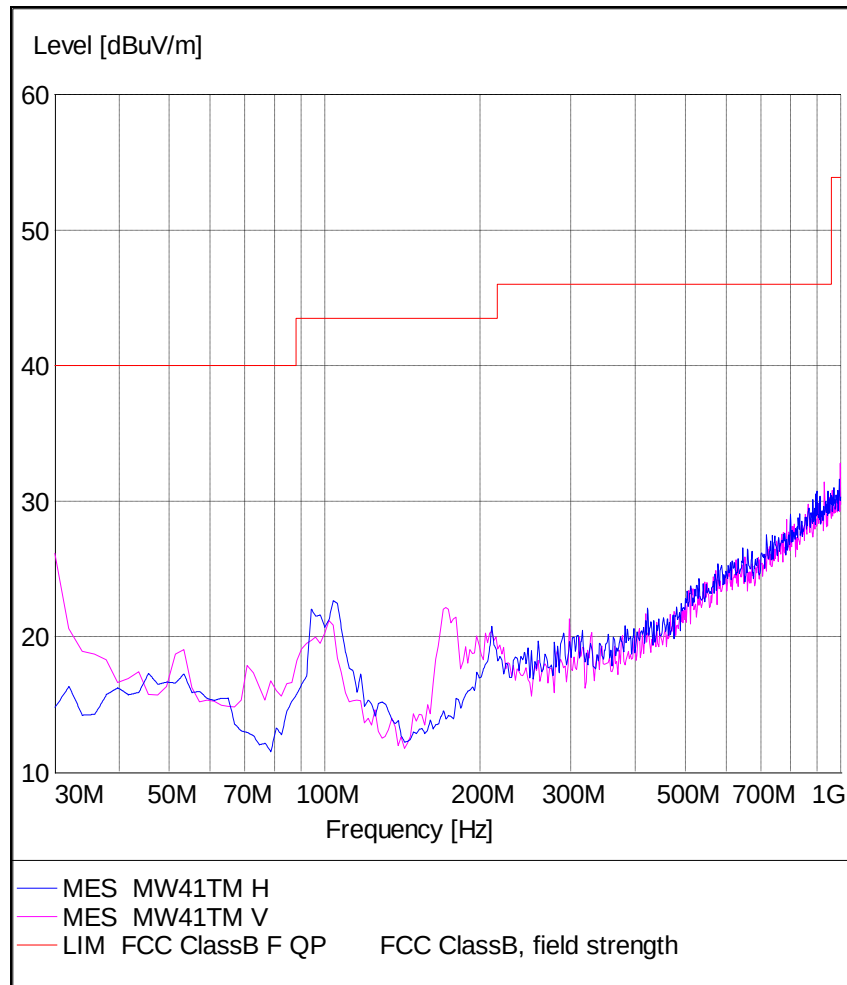
The emissions don't show in following result tables are more than 20dB below the limits.

Table 40 Radiated Emission Test Data 30MHz-1GHz

Frequency MHz	Cable Loss(dB)	Antenna Factor(dB)	Readings(dBμV/m)	Level(dBμV/m)	Polarity(H/V)	Turntable Angle(deg)	Antenna Height(m)	Limits(dBμV/m)	Margin(dB)
30	0.6	12.3	-0.8	12.1	H	240	2	40	27.9
42.7	0.8	13.6	-0.9	13.5	H	160	2	40	26.5
49.4	0.7	13.6	-0.4	13.9	H	180	2	40	26.1
88.3	1.1	10.3	1.7	13.1	H	138	2	43.5	30.4
98.031	1.0	12.8	0.3	14.1	H	220	2	43.5	29.4
113.451	1.2	12.3	0.4	13.9	H	270	2	43.5	29.6
30.016	0.6	12.3	15.2	28.1	V	240	1	40	11.9
35.83	0.6	12.3	8.1	21.0	V	200	1	40	19.0
53.3	0.7	13.3	3.1	17.1	V	300	1	40	22.9
70.666	0.9	8.7	13.7	23.3	V	240	1	40	16.7
95.667	1.1	12.8	5.2	19.1	V	160	1	43.5	24.4
194.21	1.7	10.6	6.9	19.2	V	200	1	43.5	24.3

Radiated Emission

EUT Name: MW41TM
Mode:
Test site: SMQ NETC EMC Lab.3m Chamber
Antenna Position: transmitting
Comment: AC 120V/60Hz



1-18G

11b

Ch1

Radiated Emission

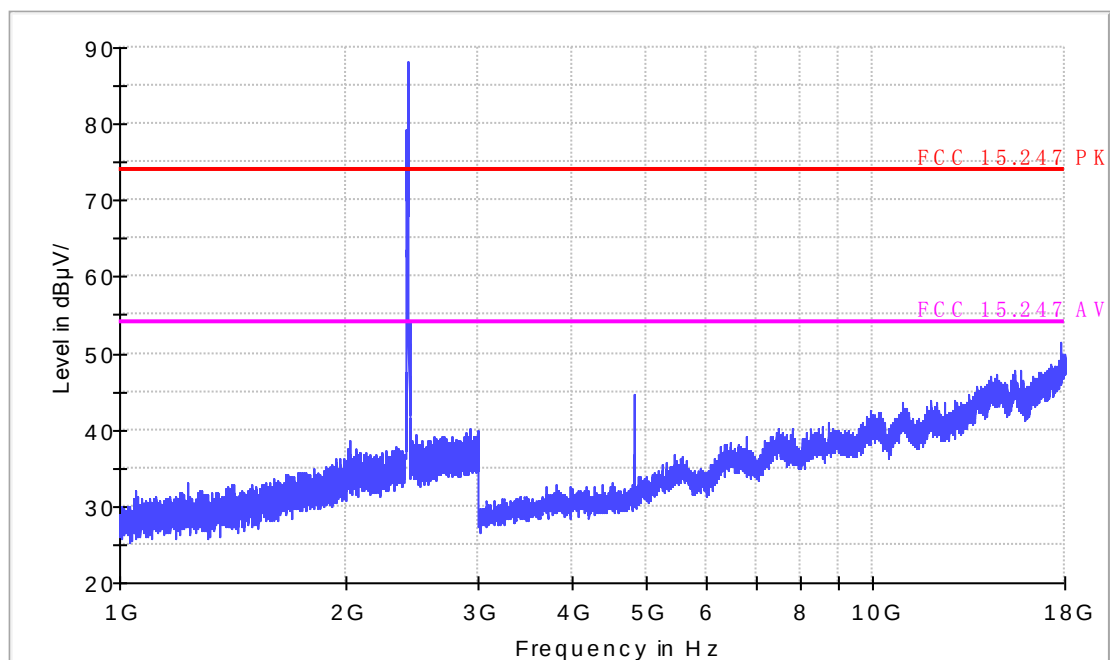
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11b CH1
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

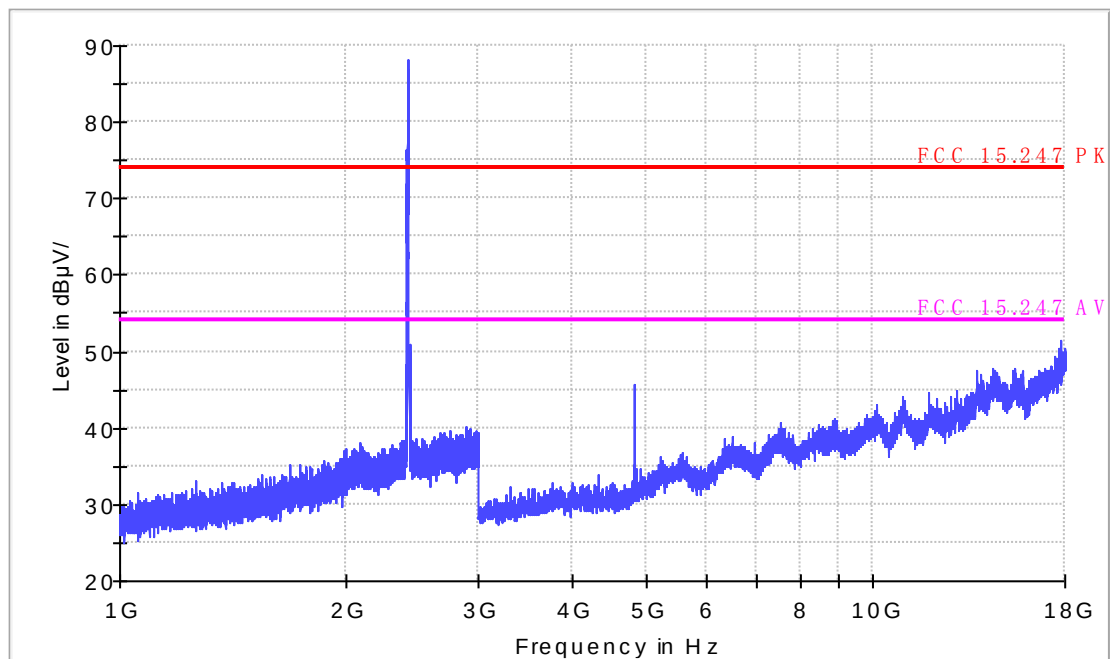
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11b CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G

11b

CH6

Radiated Emission

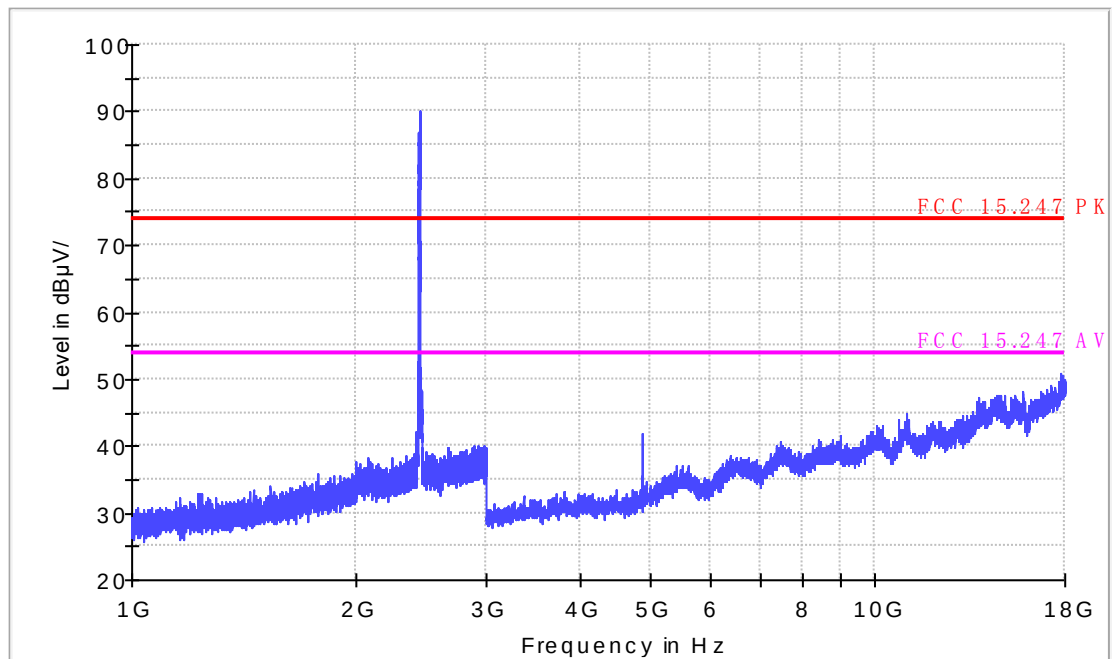
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11b CH6
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

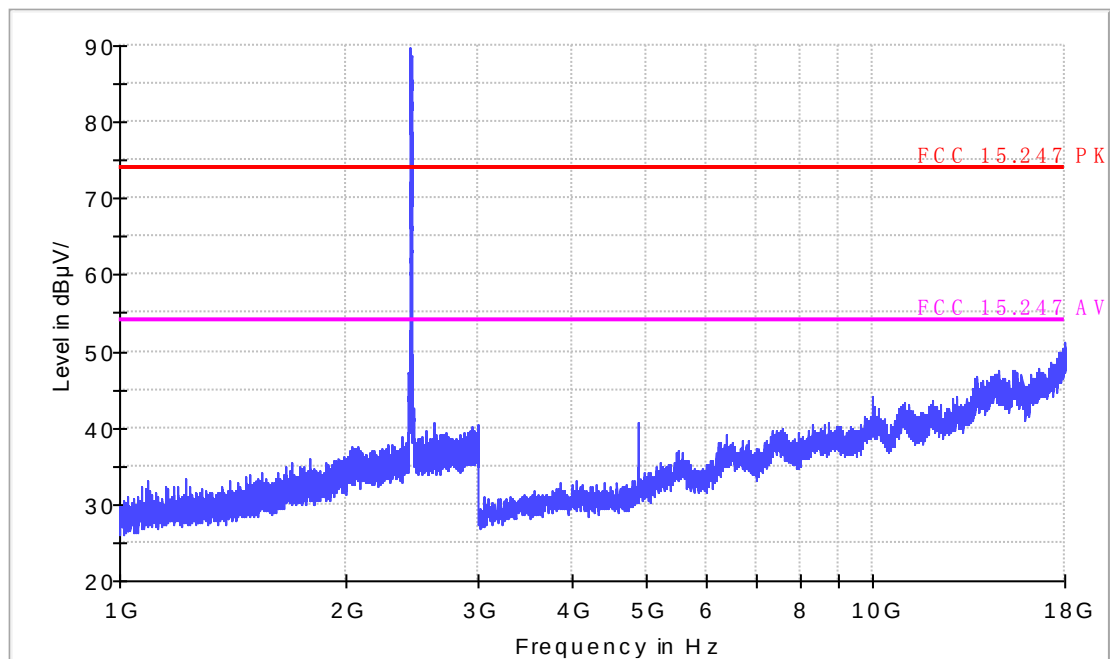
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11b CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G

11b

CH11

Radiated Emission

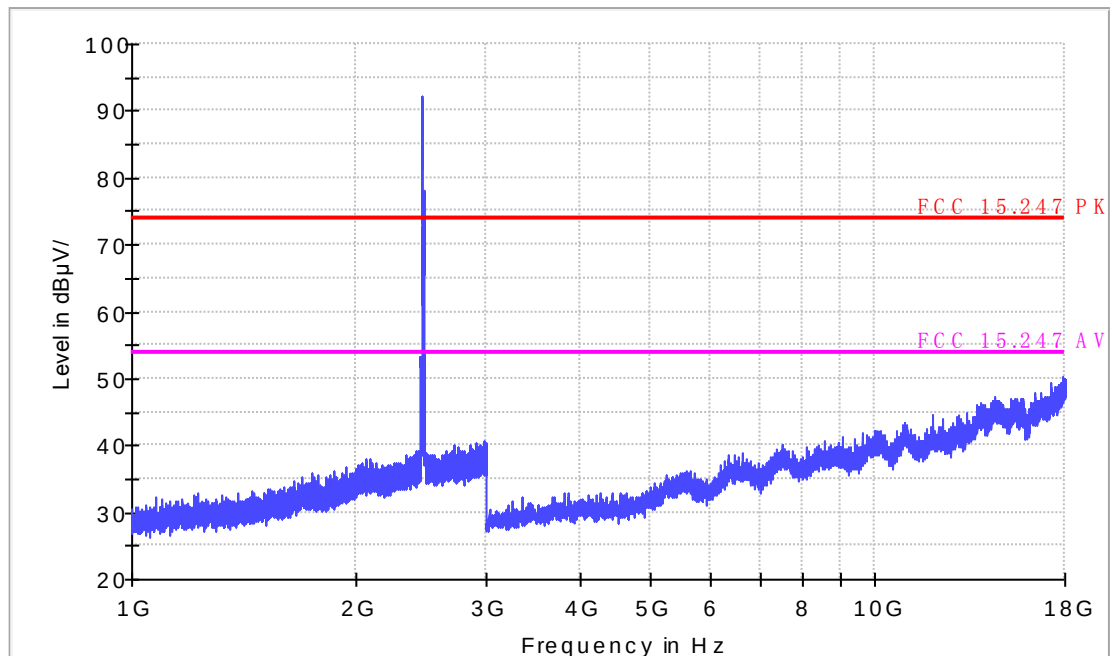
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

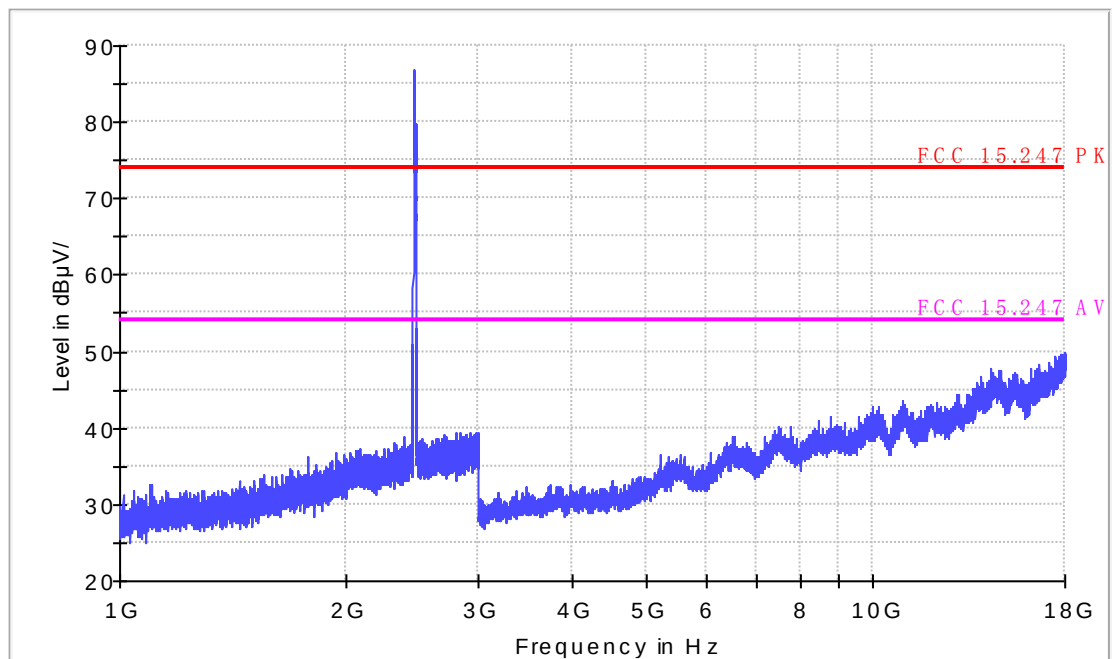
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G

11g

CH1

Radiated Emission

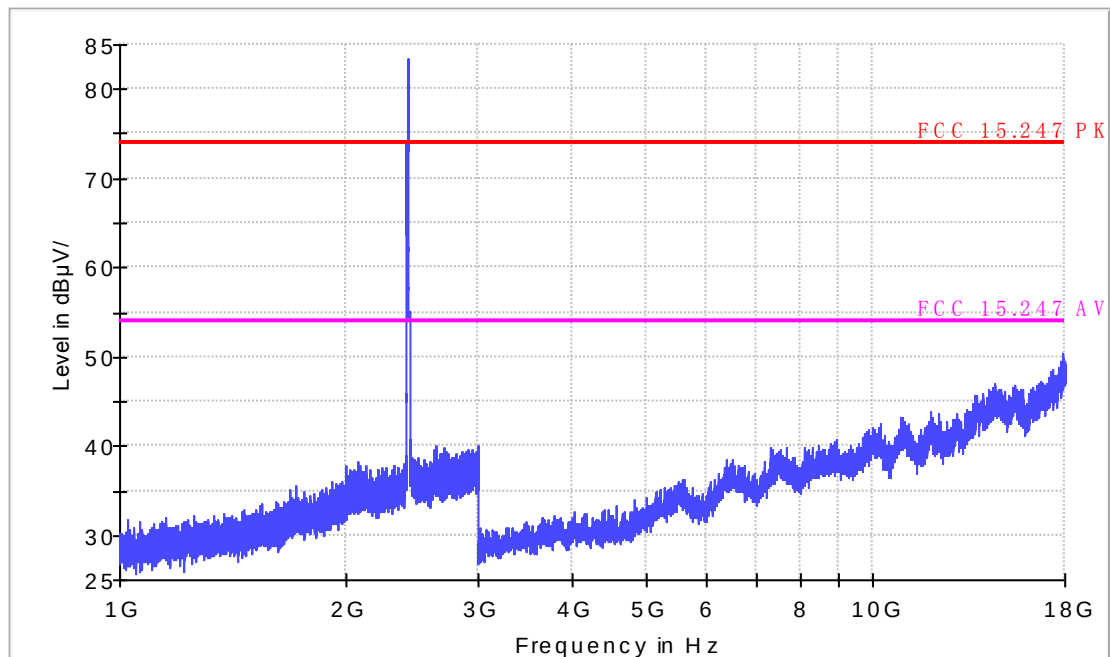
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11g CH1
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

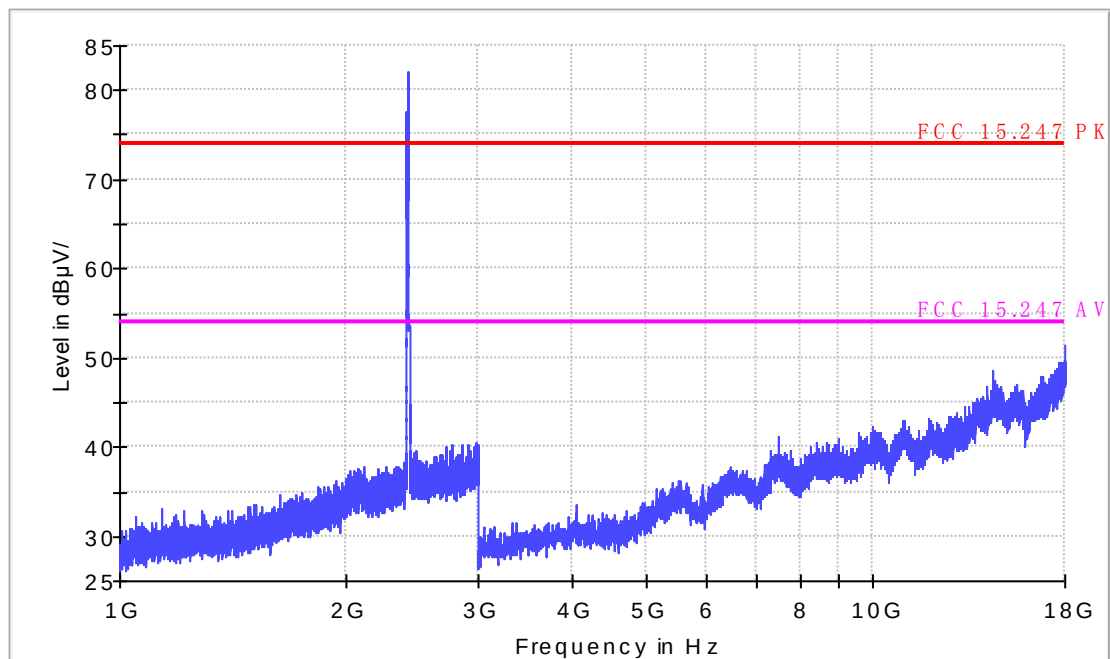
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11g CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G

11g

CH6

Radiated Emission

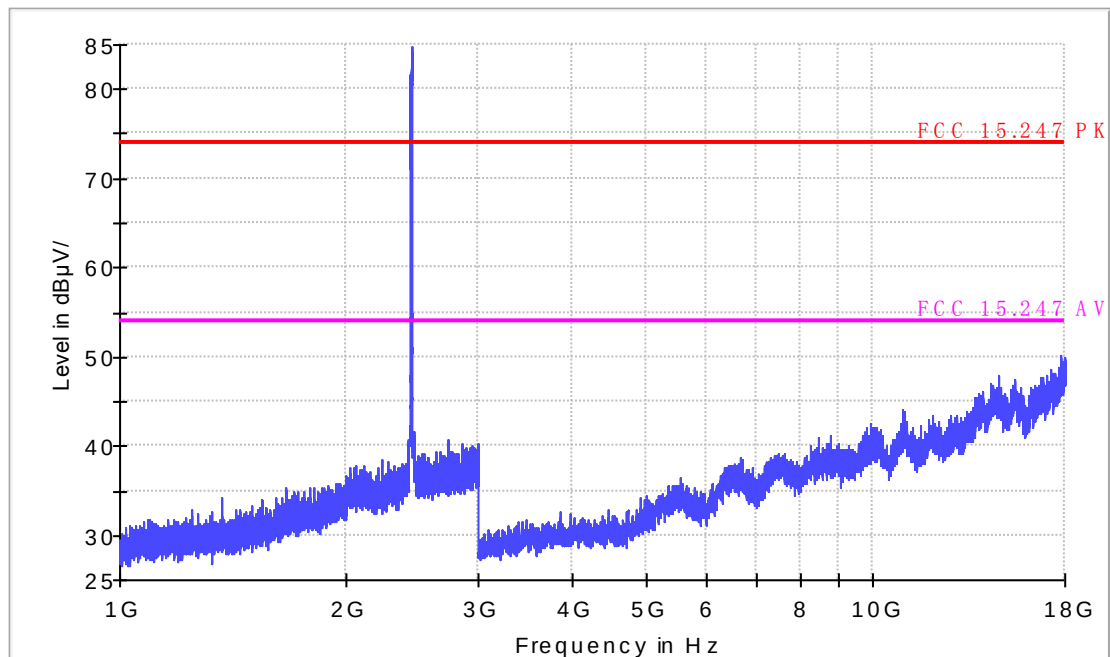
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11g CH6
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

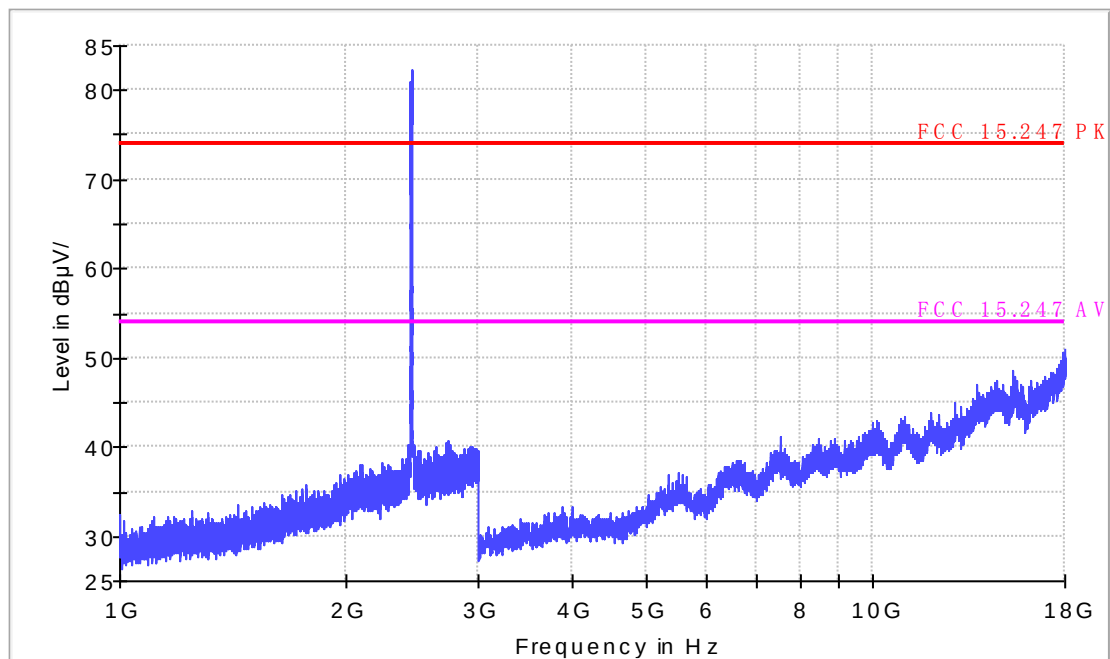
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11g CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G

11g

CH11

Radiated Emission

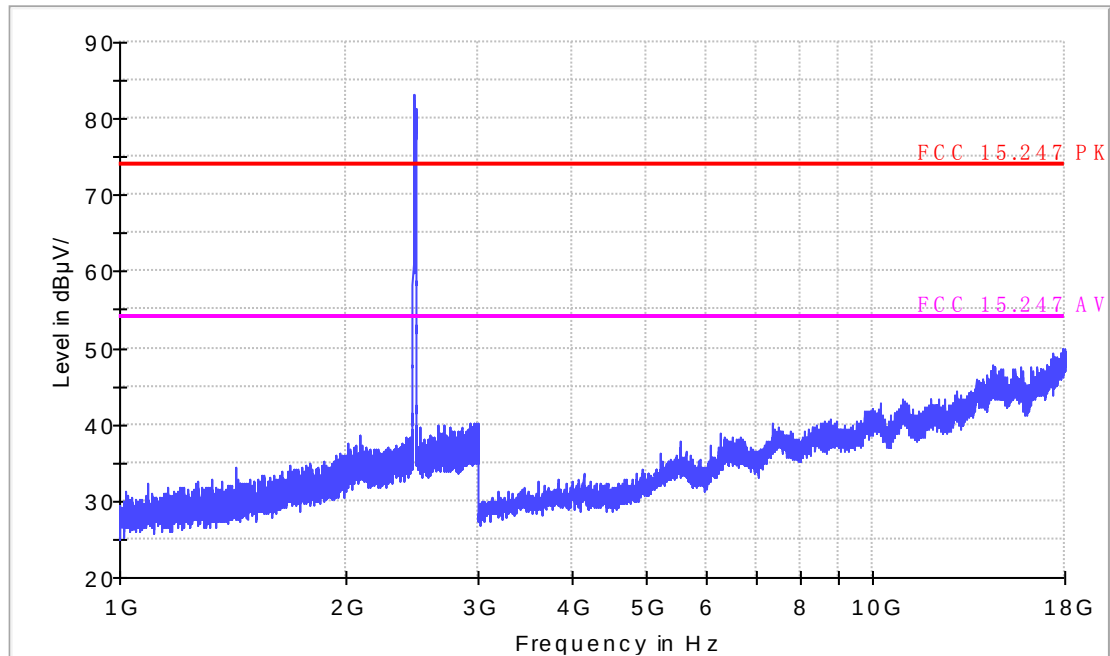
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11a CH11
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

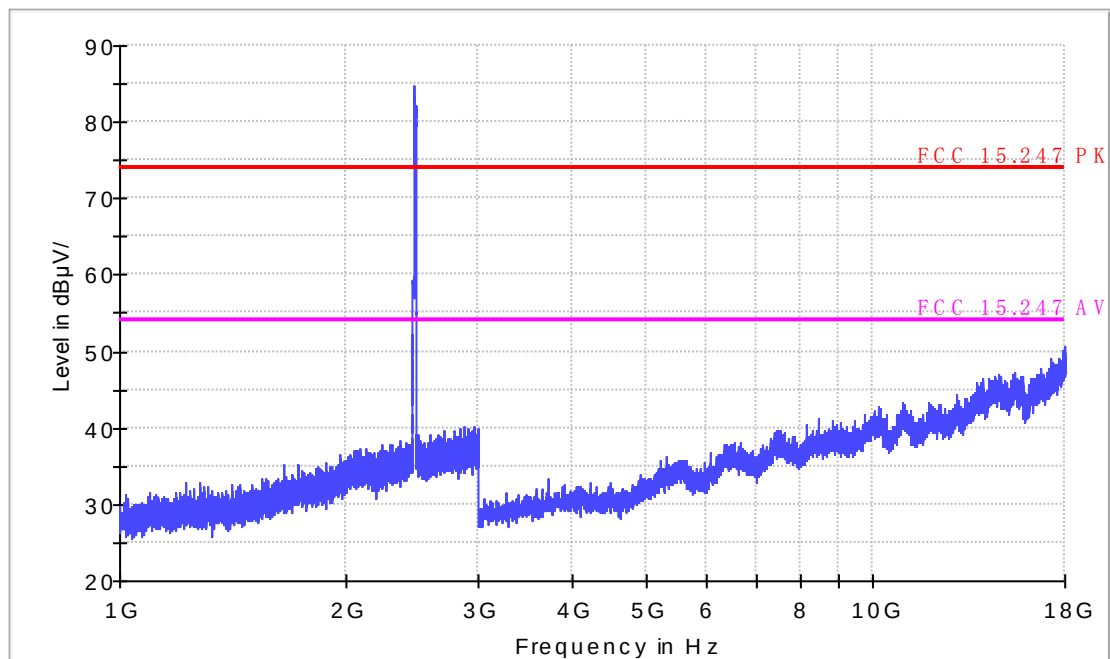
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11g CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G

11n-HT20

CH1

Radiated Emission

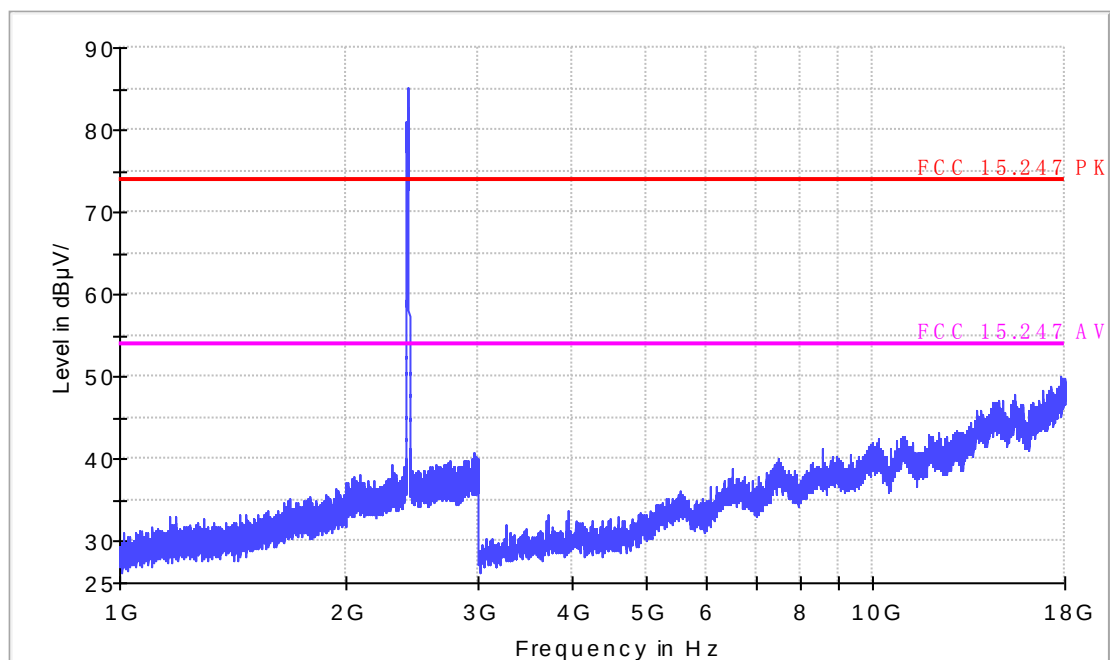
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n HT20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

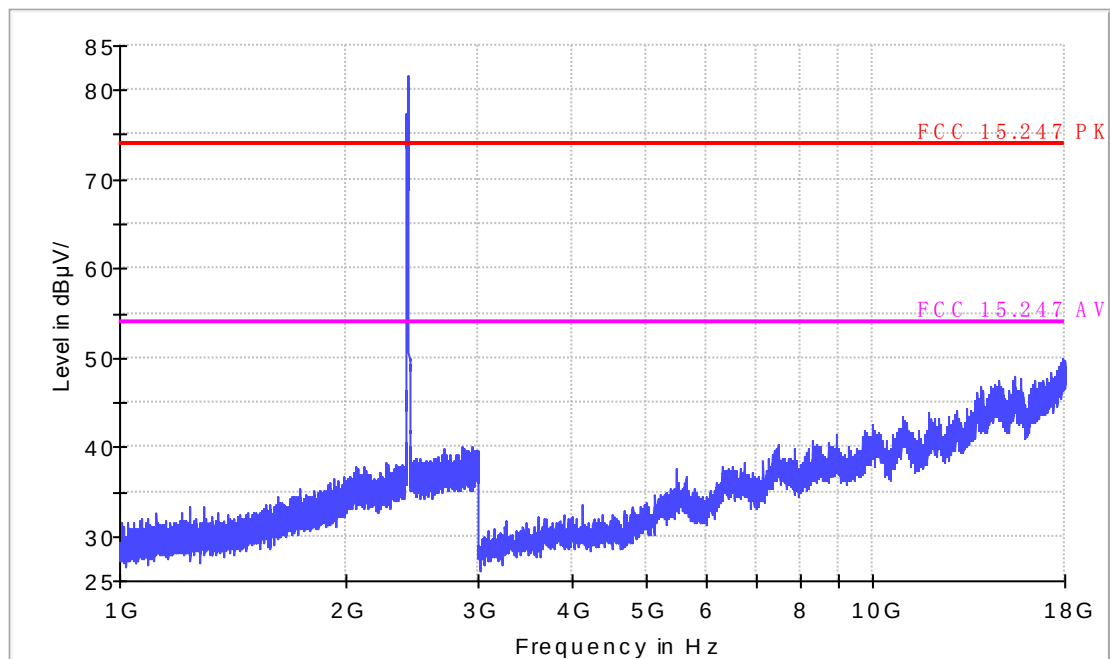
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n HT20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G

11n-HT20

CH6

Radiated Emission

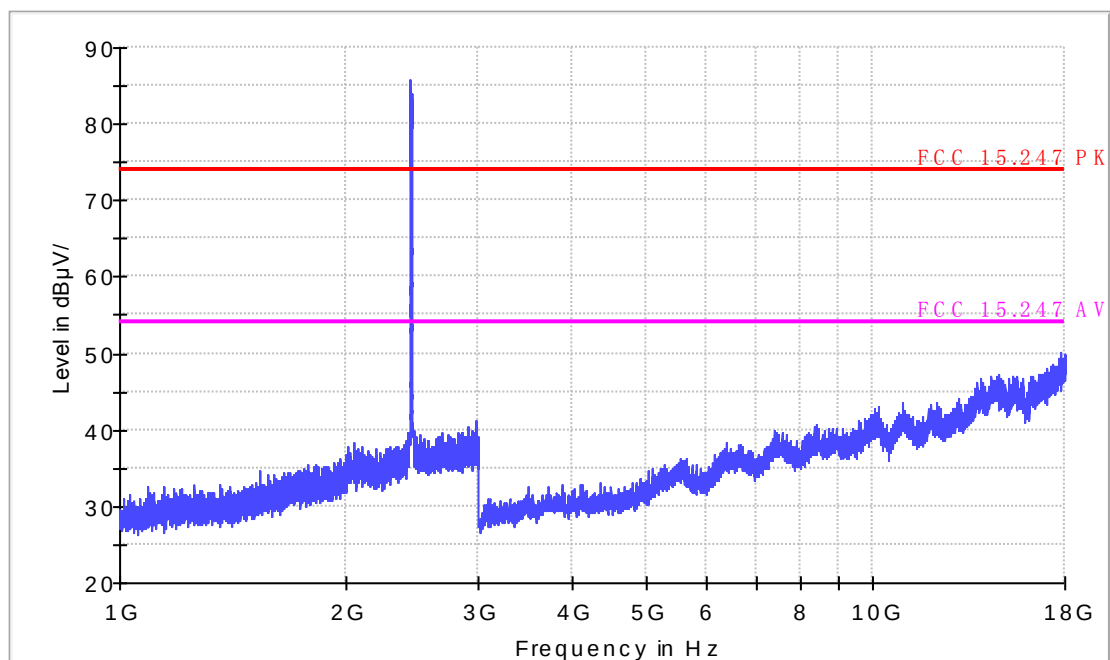
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n HT20 CH6
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

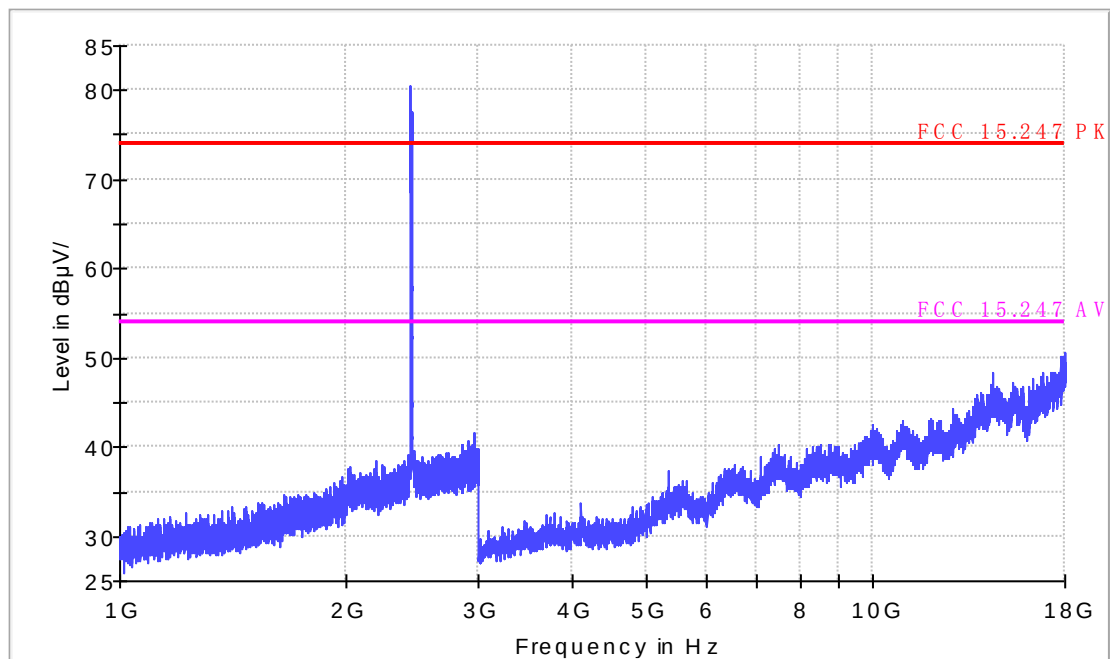
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n HT20 CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G

11n-HT20

CH11

Radiated Emission

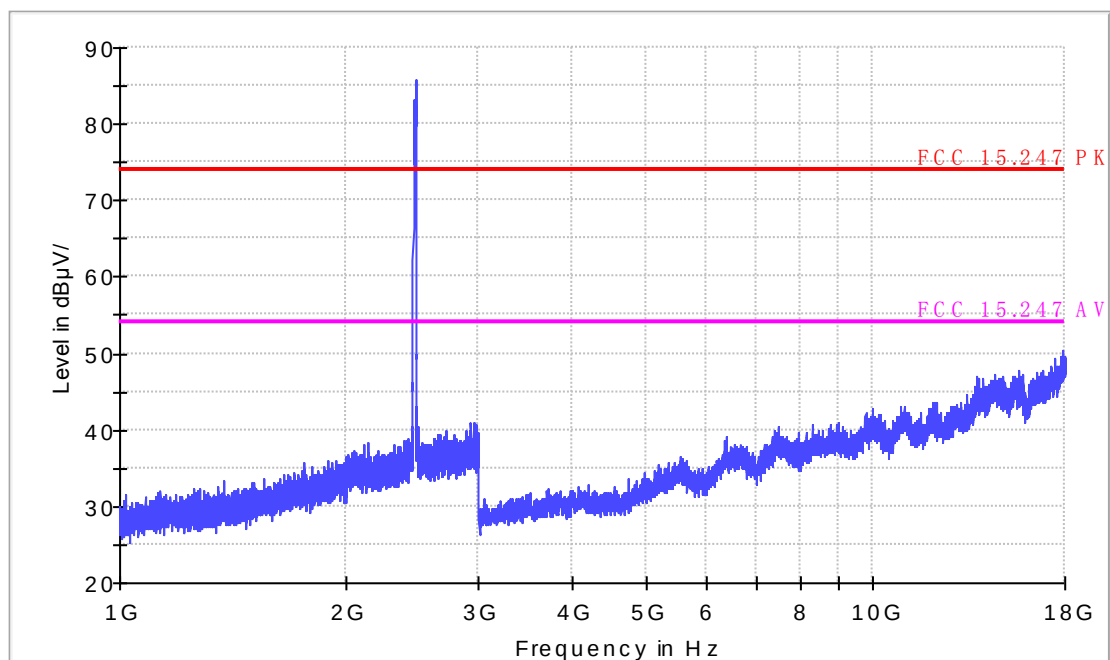
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n HT20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

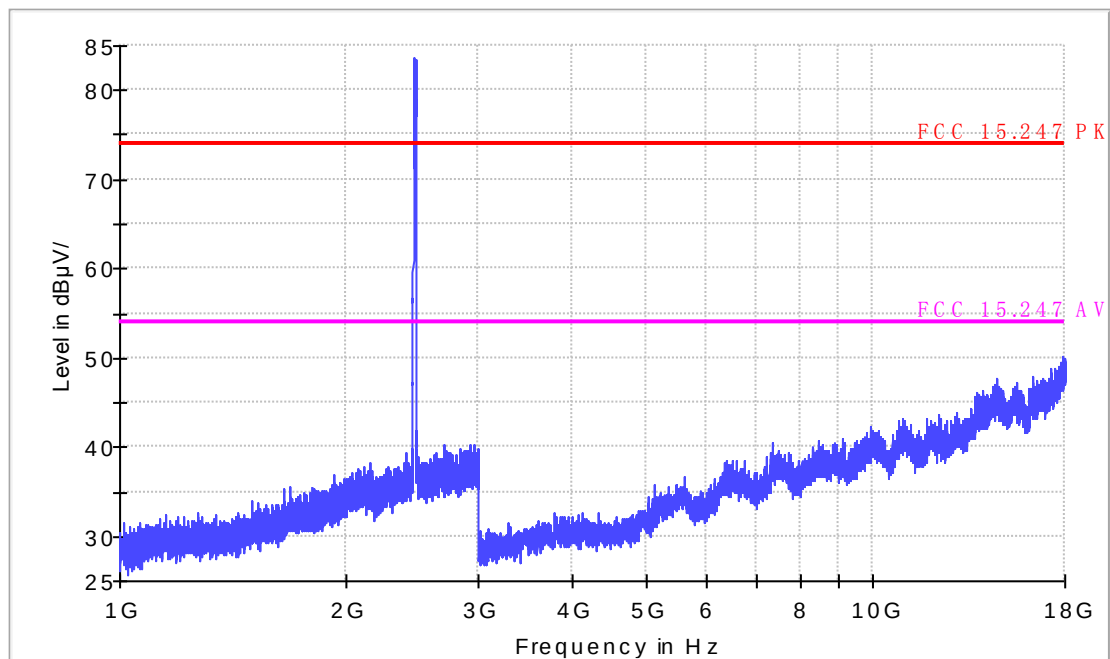
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n HT20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G

11n-HT40

CH3

Radiated Emission

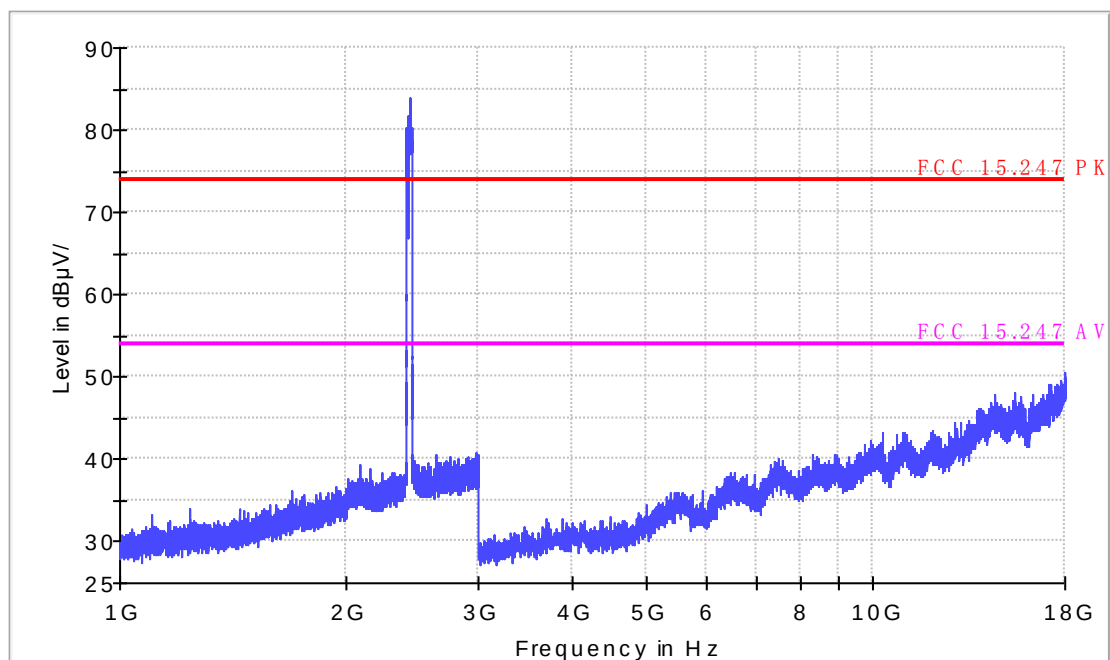
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n HT40 CH3
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

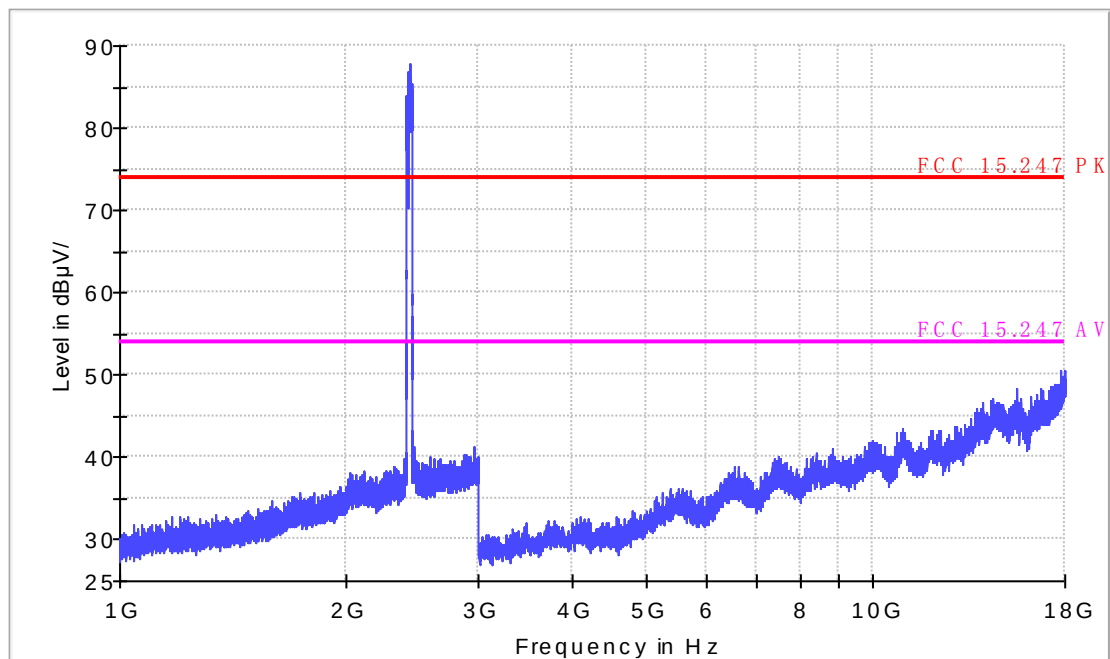
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n HT40 CH3
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G

11n-HT40

CH6

Radiated Emission

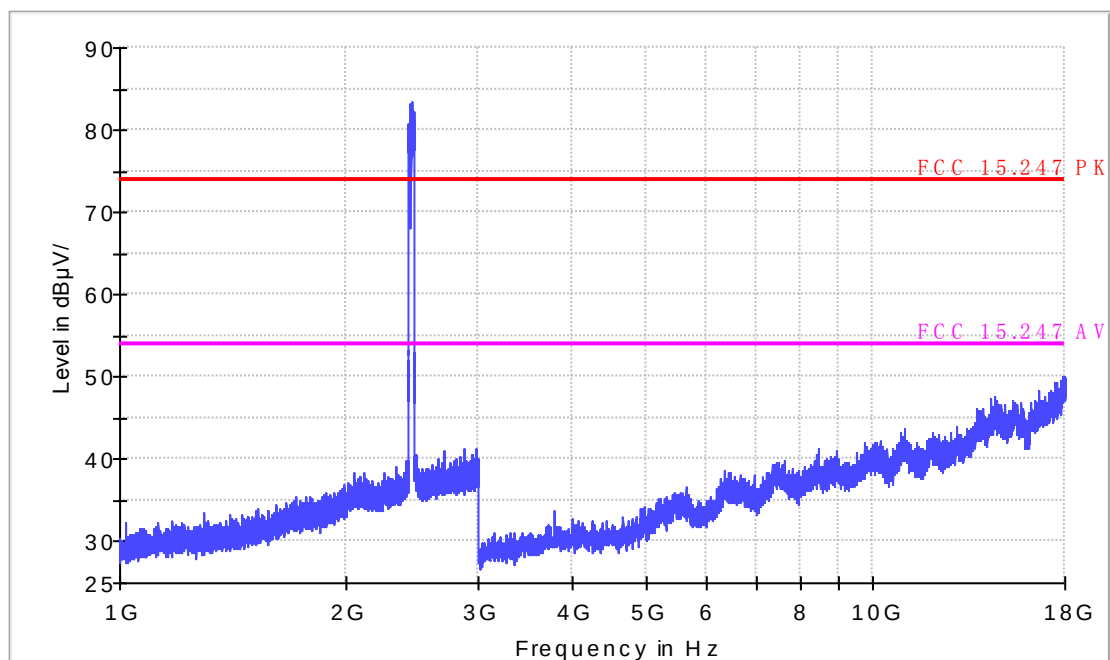
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n HT40 CH6
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

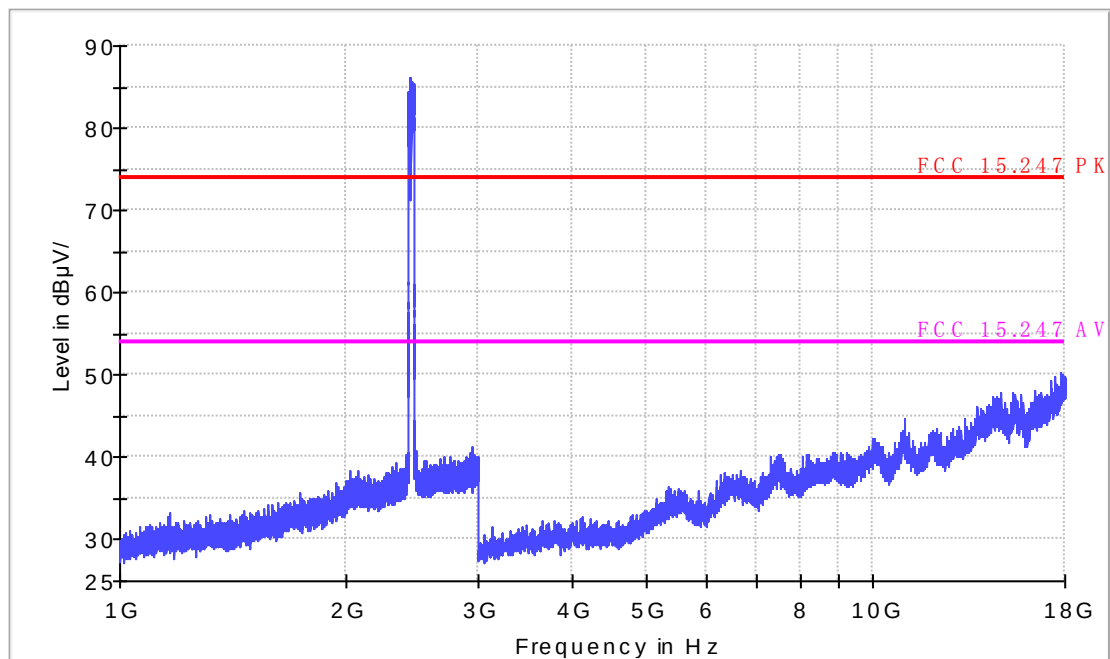
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n HT40 CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



1-18G

11n-HT40

CH9

Radiated Emission

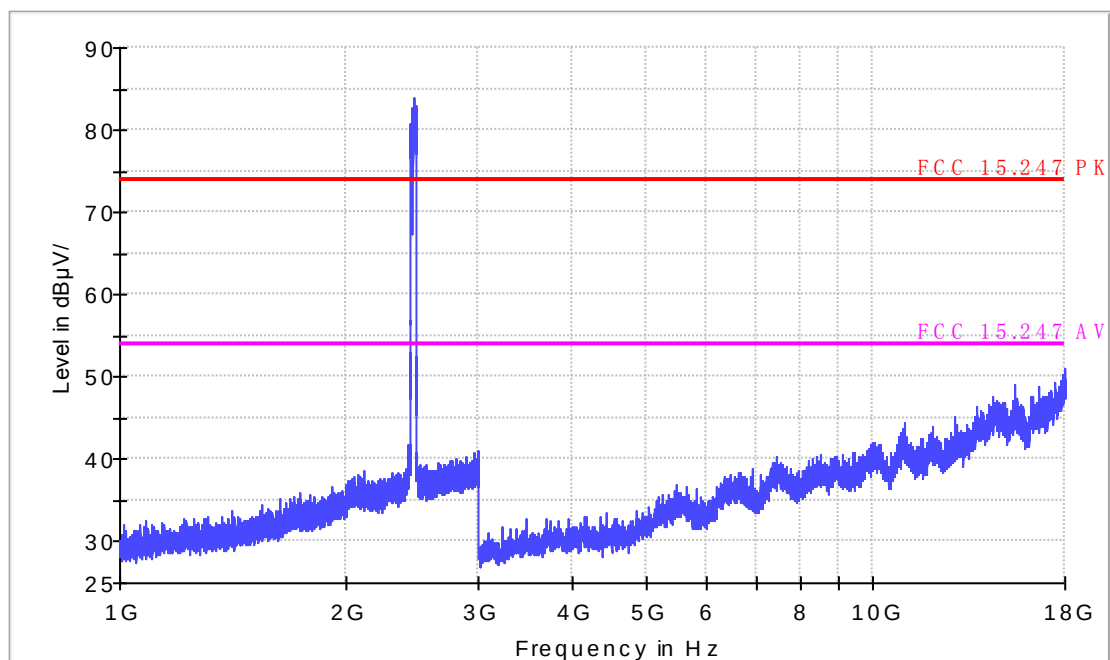
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n HT40 CH9
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

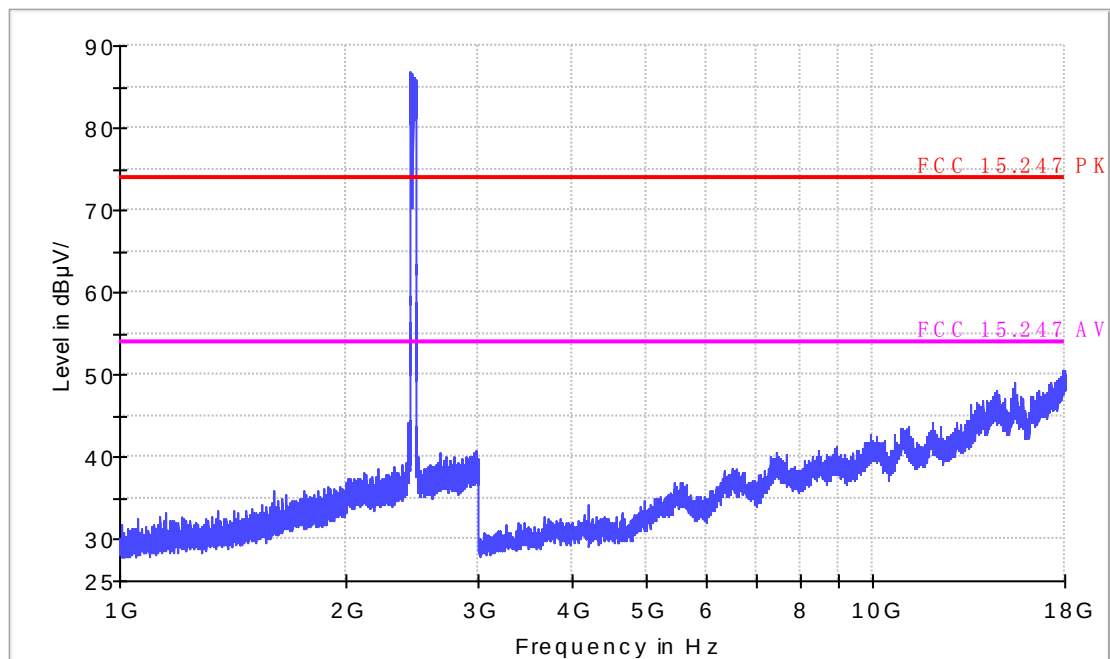
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n HT40 CH9
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

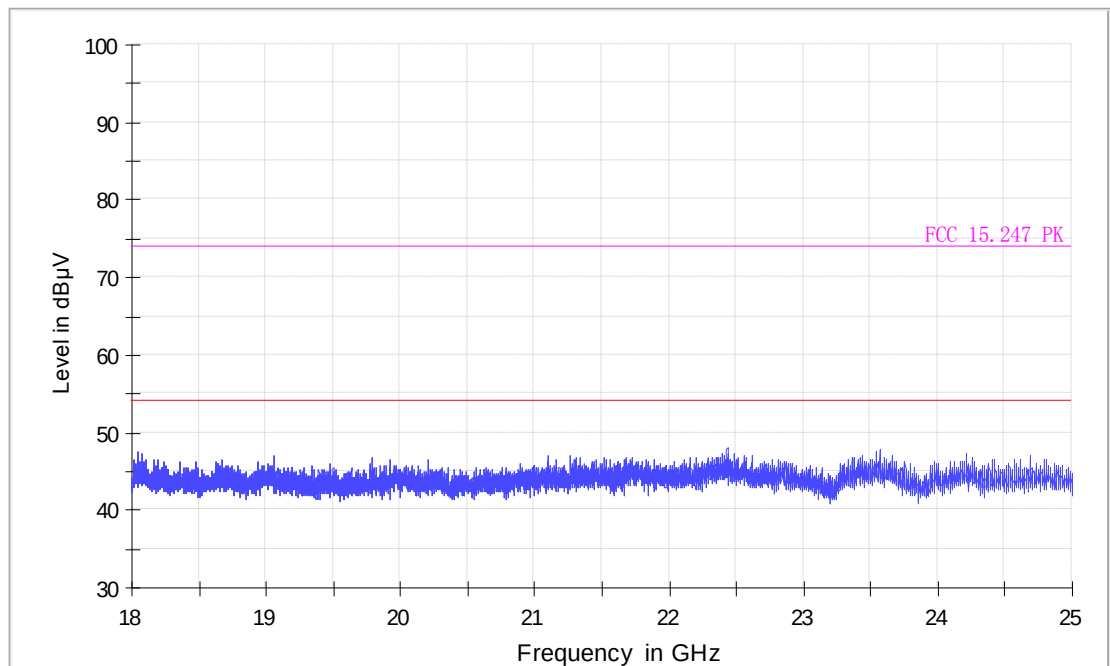
EUT Information

EUT Model Name: MW41TM
Operation mode: 11b CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

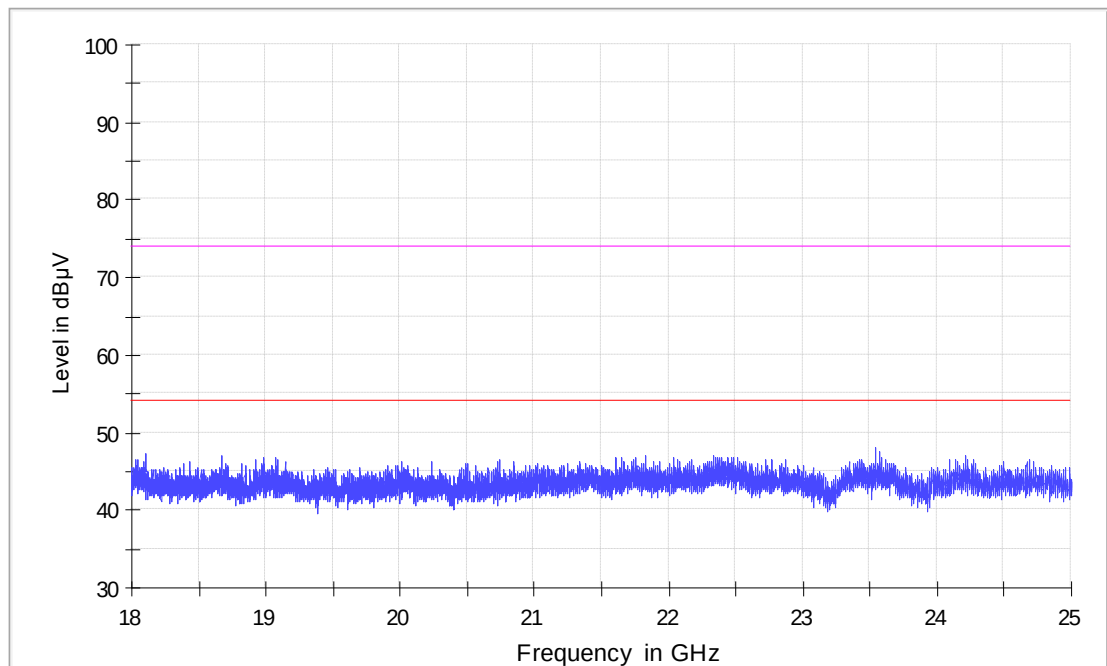
EUT Information

EUT Model Name: MW41TM
Operation mode: 11b CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

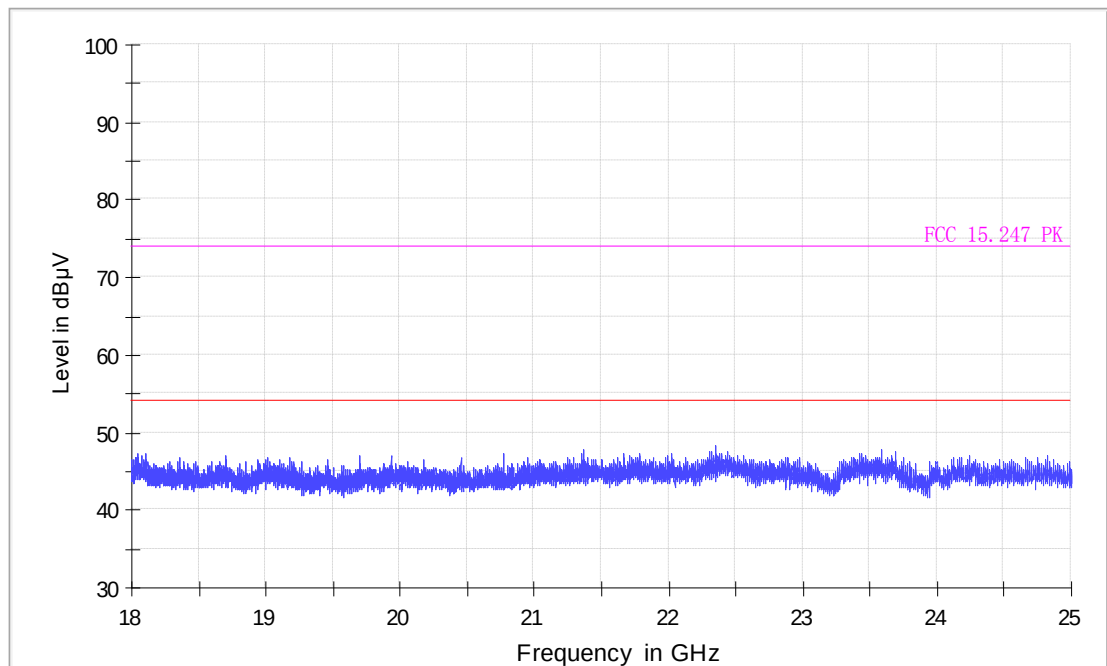
EUT Information

EUT Model Name: MW41TM
Operation mode: 11b CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

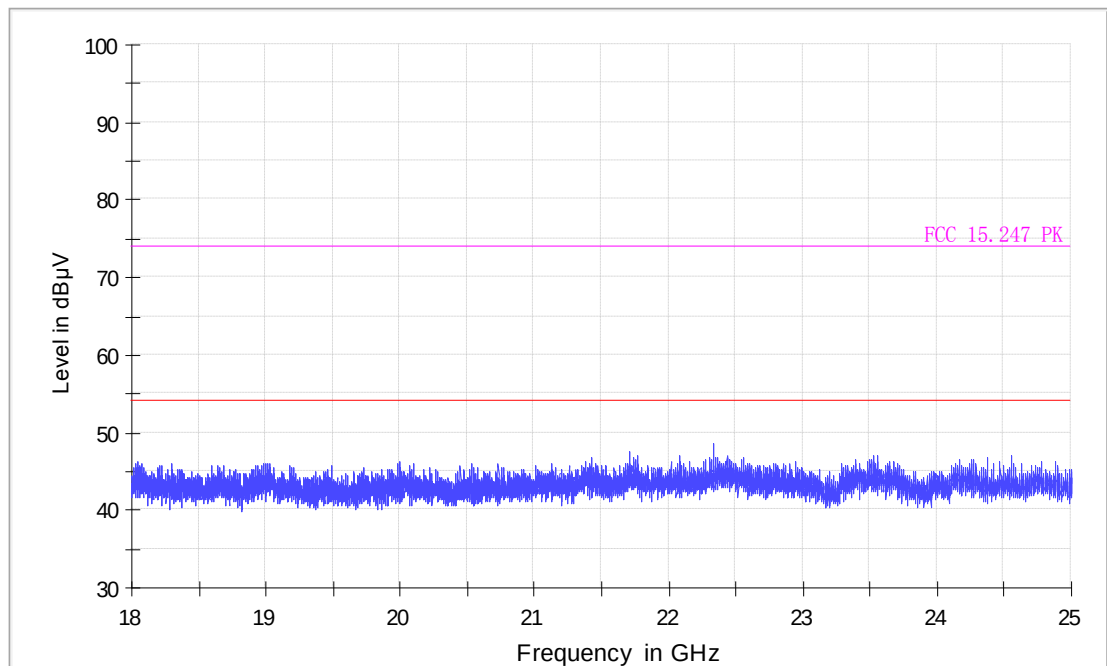
EUT Information

EUT Model Name: MW41TM
Operation mode: 11b CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

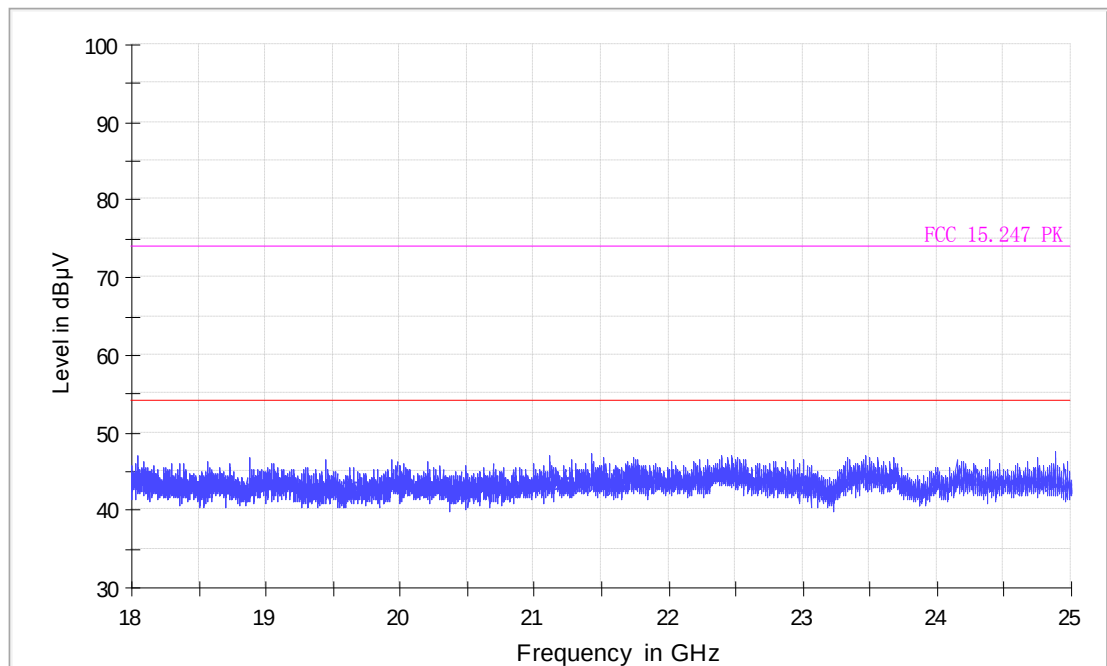
EUT Information

EUT Model Name: MW41TM
Operation mode: 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

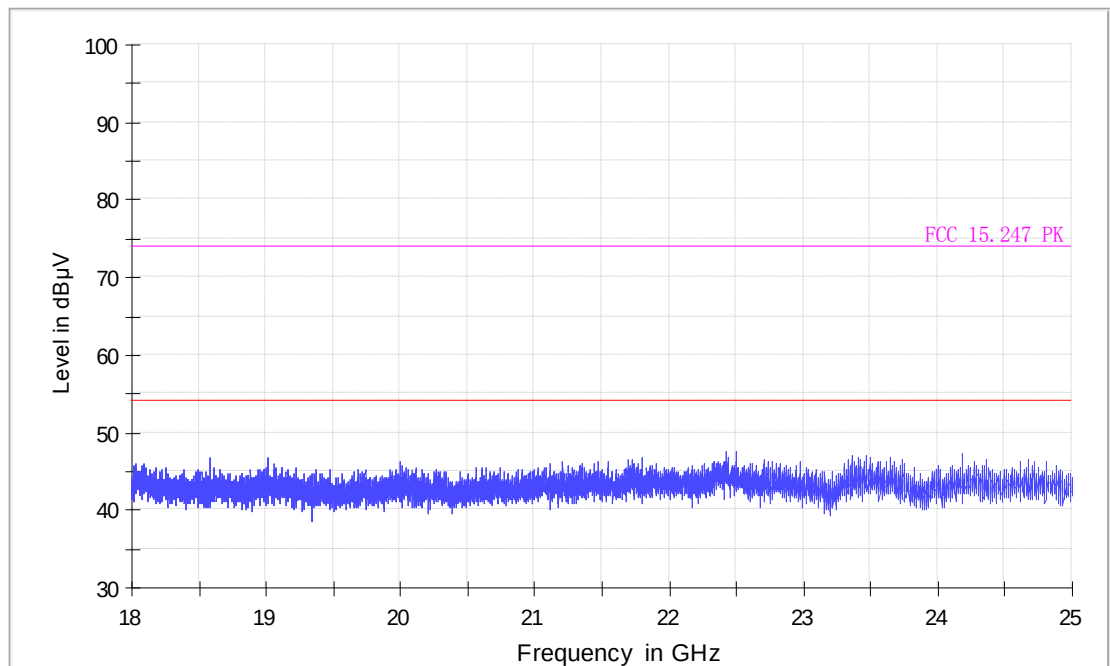
EUT Information

EUT Model Name: MW41TM
Operation mode: 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

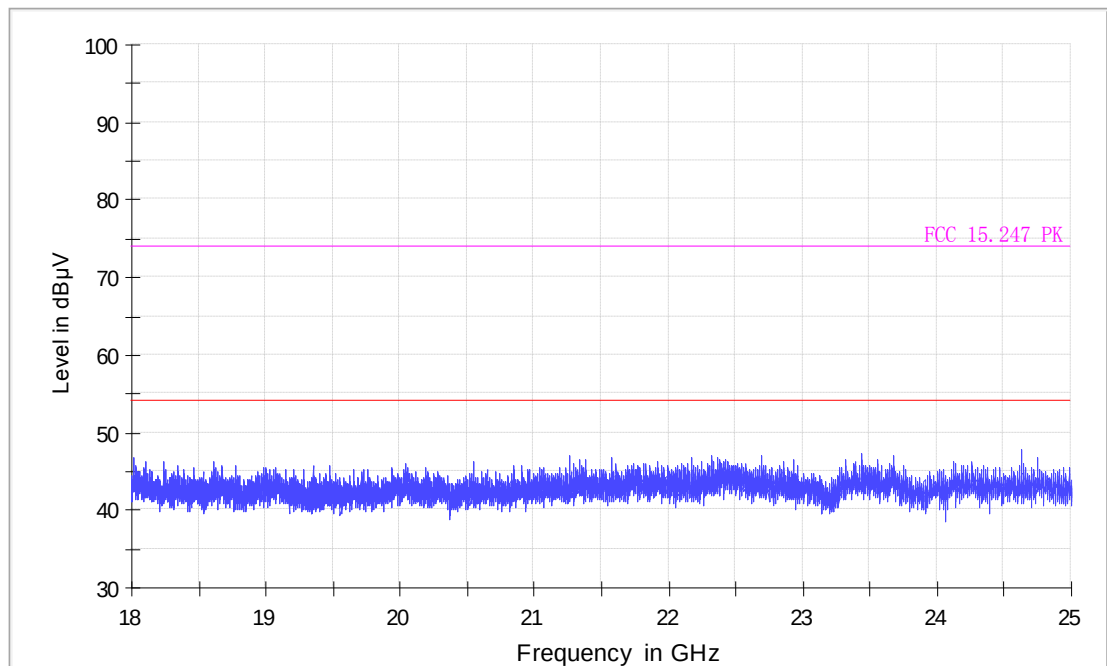
EUT Information

EUT Model Name: MW41TM
Operation mode: 11q CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

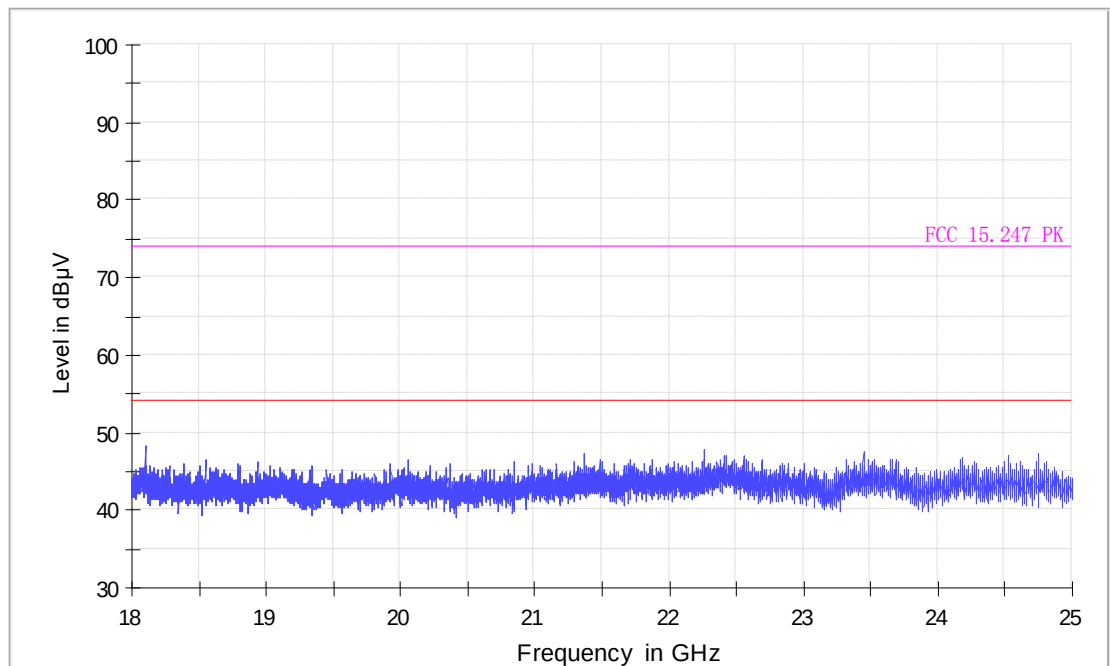
EUT Information

EUT Model Name: MW41TM
Operation mode: 11q CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

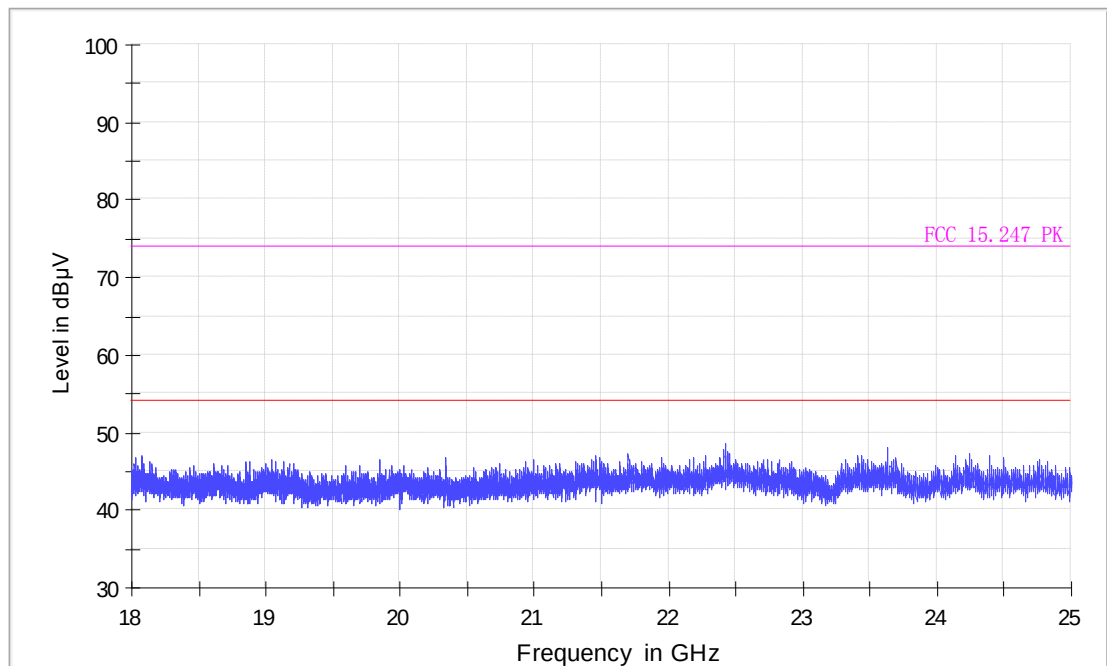
EUT Information

EUT Model Name: MW41TM
Operation mode: 11qCH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

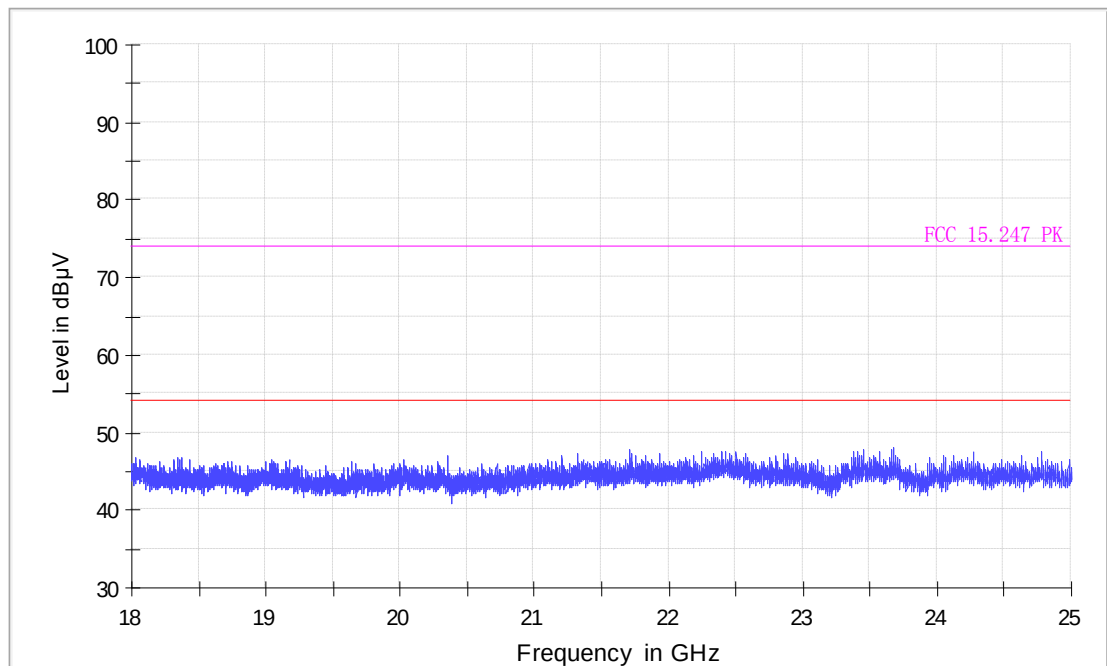
EUT Information

EUT Model Name: MW41TM
Operation mode: 11qCH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

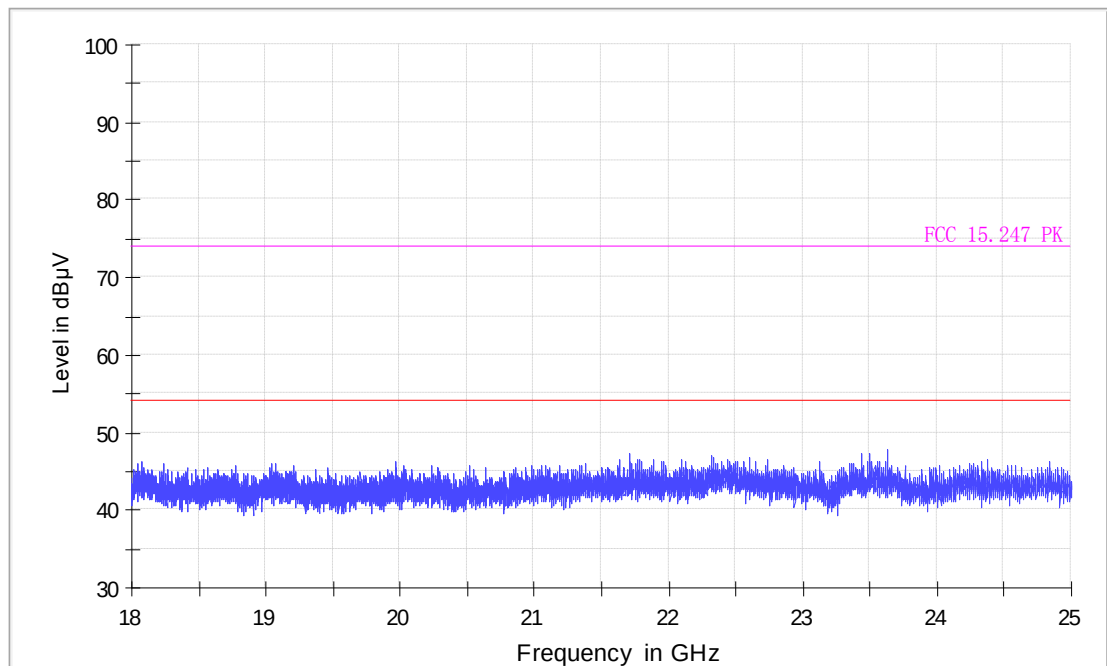
EUT Information

EUT Model Name: MW41TM
Operation mode: 11q CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

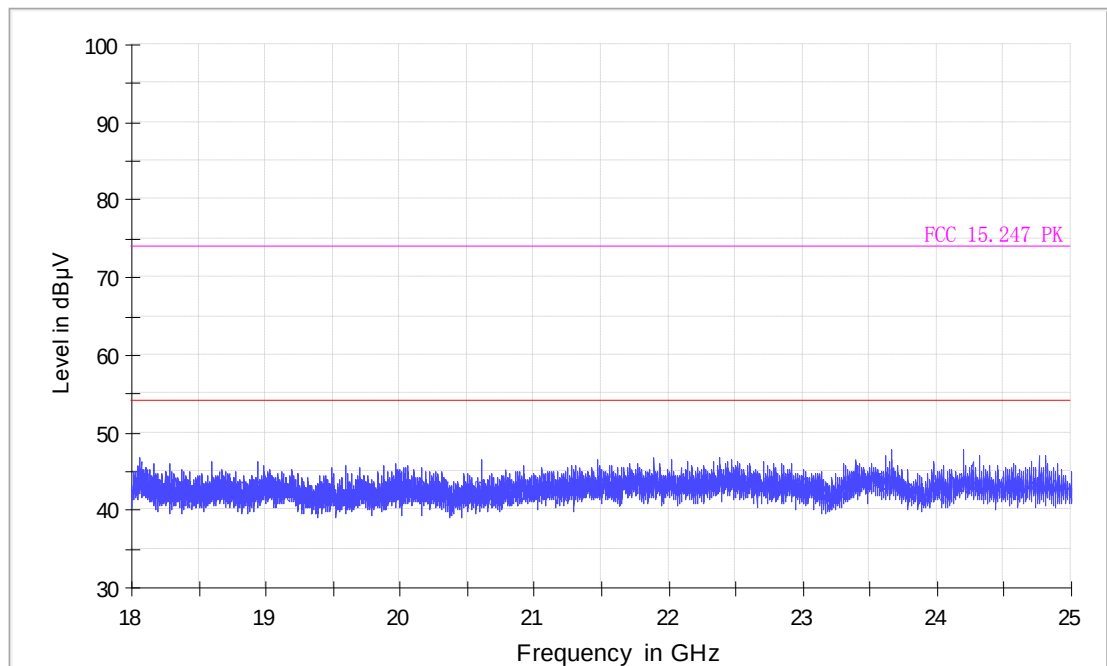
EUT Information

EUT Model Name: MW41TM
Operation mode: 11q CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

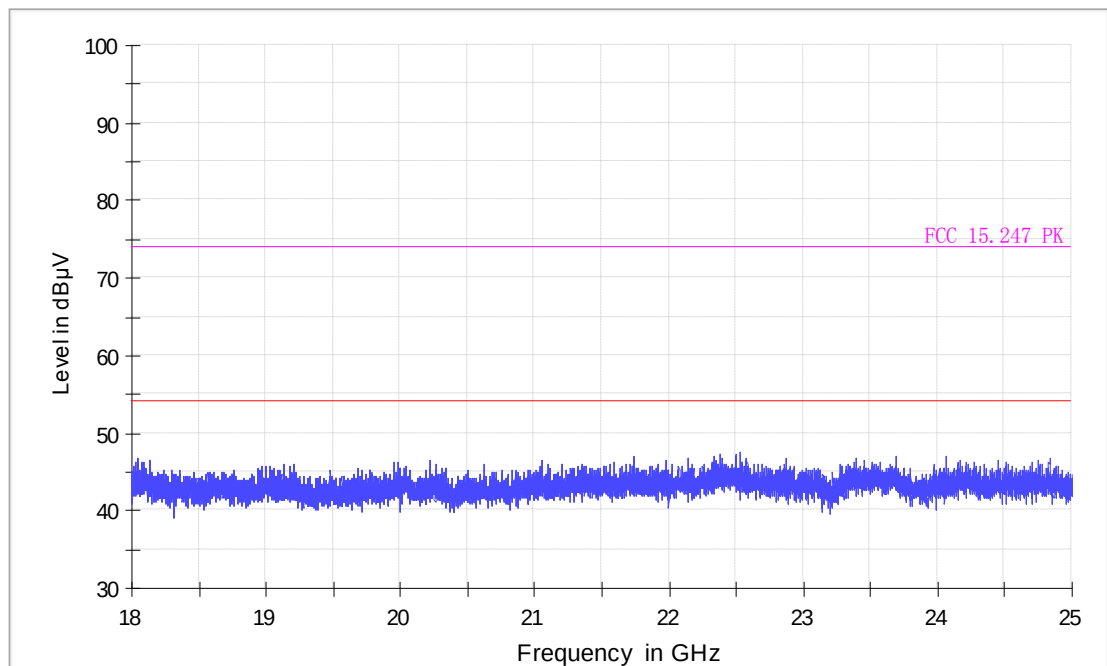
EUT Information

EUT Model Name: MW41TM
Operation mode: 11n-HT20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

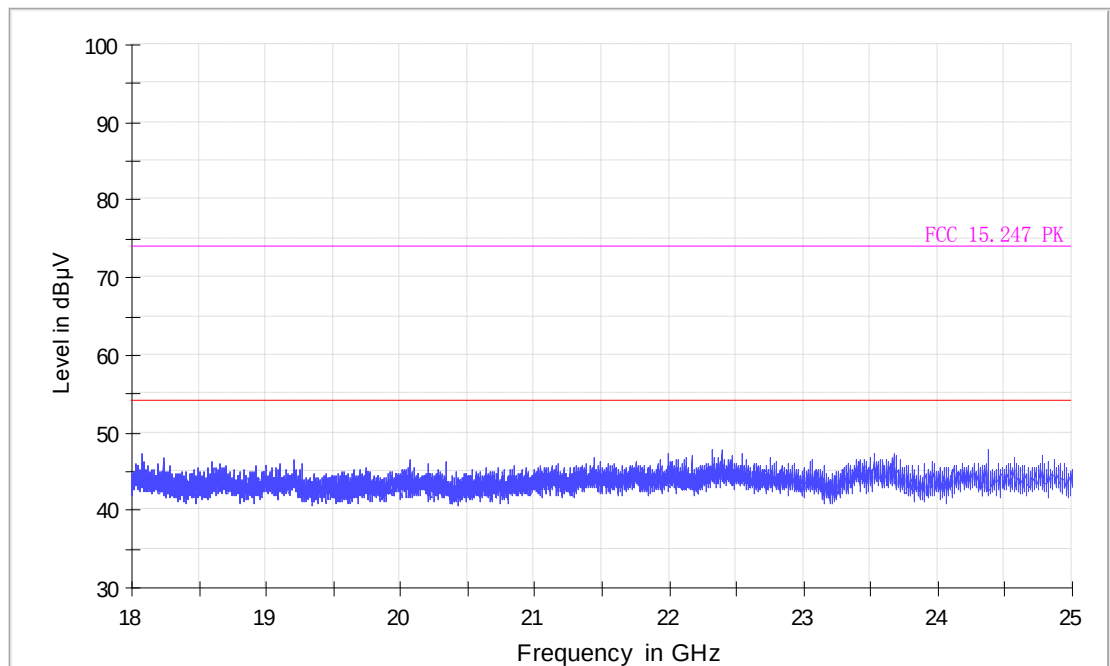
EUT Information

EUT Model Name: MW41TM
Operation mode: 11n-HT20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

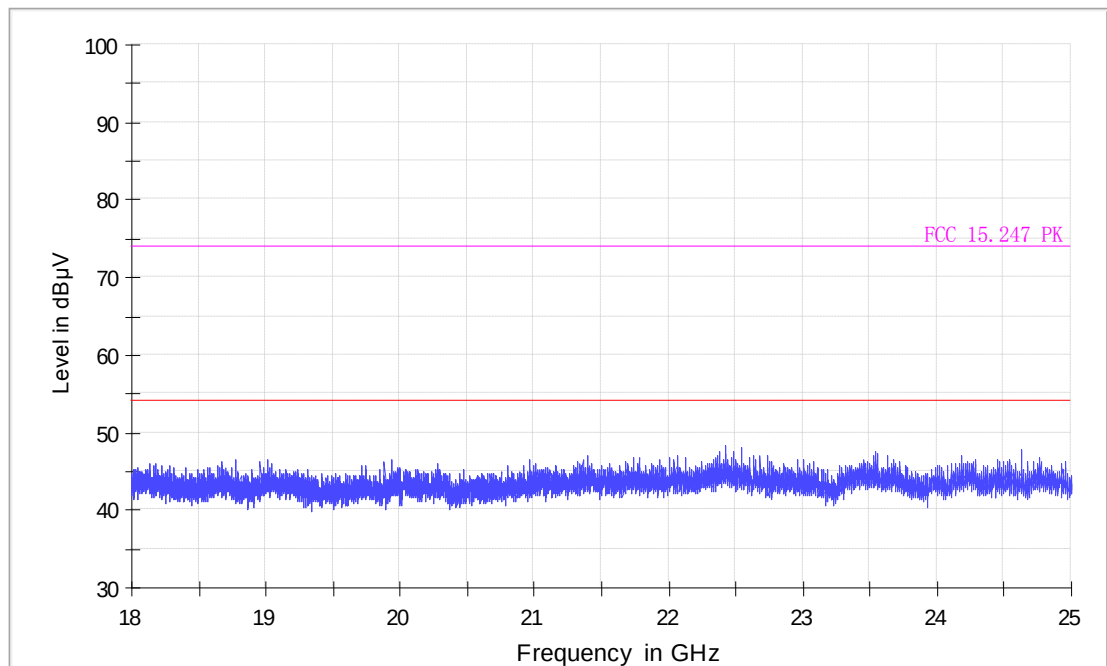
EUT Information

EUT Model Name: MW41TM
Operation mode: 11n-HT20 CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

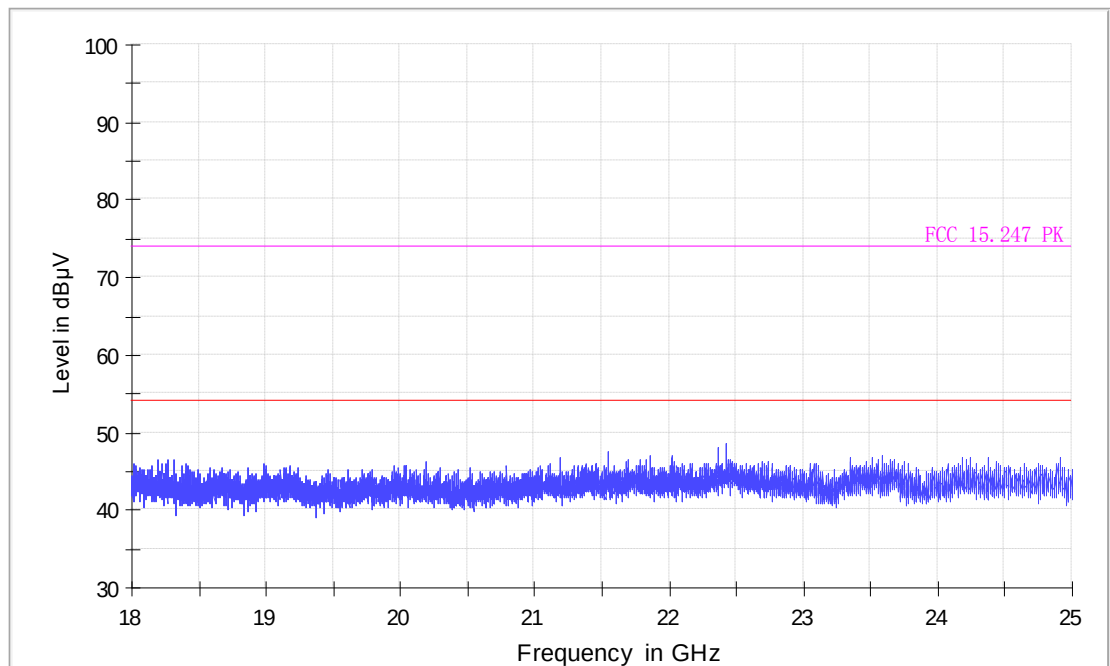
EUT Information

EUT Model Name: MW41TM
Operation mode: 11n-HT20 CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

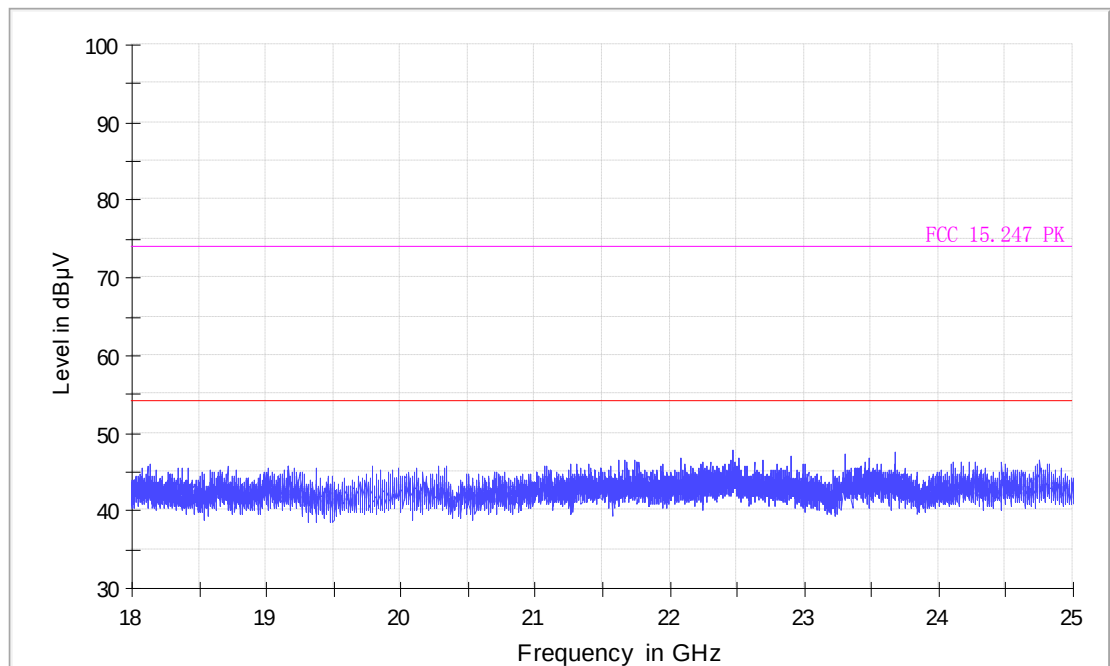
EUT Information

EUT Model Name: MW41TM
Operation mode: 11n-HT20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

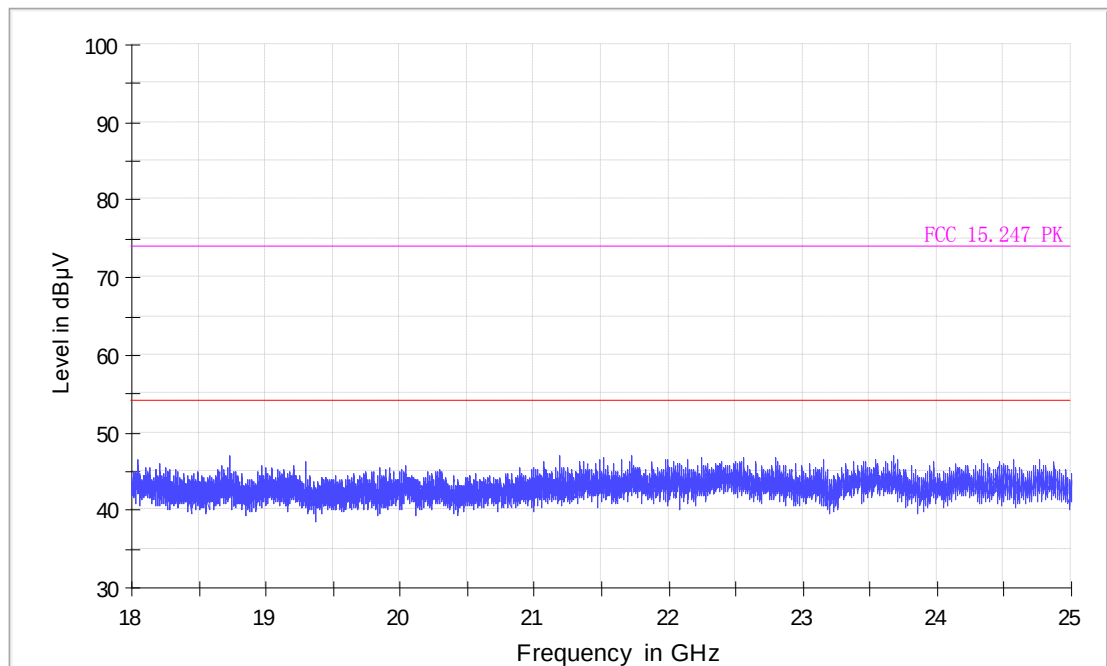
EUT Information

EUT Model Name: MW41TM
Operation mode: 11n-HT20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

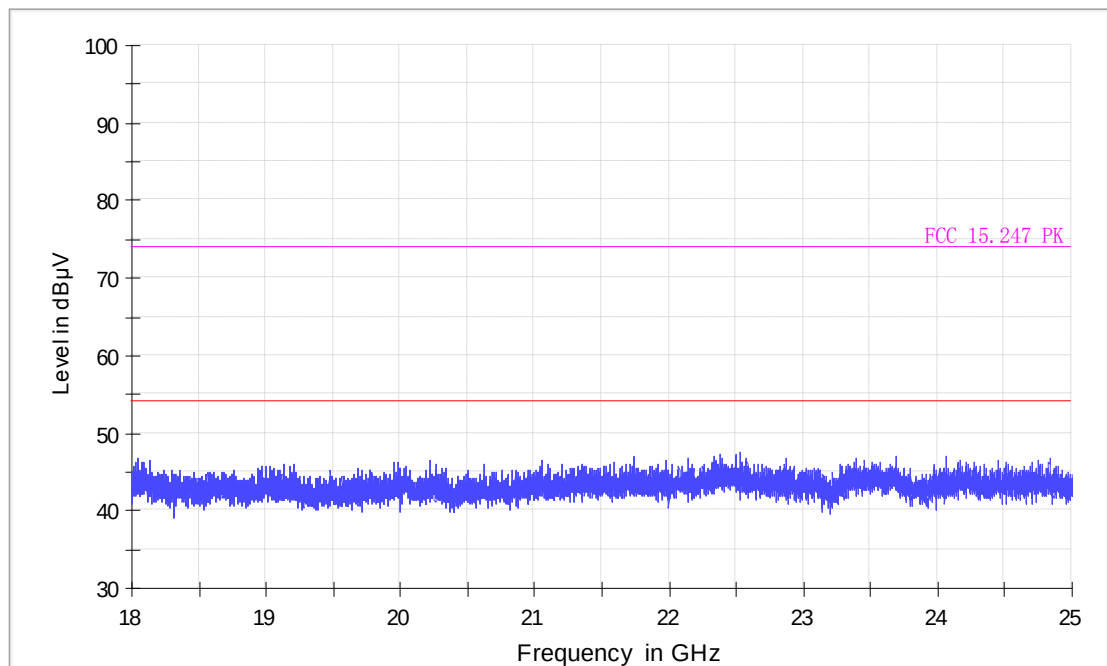
EUT Information

EUT Model Name: MW41TM
Operation mode: 11n-HT40 CH3
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

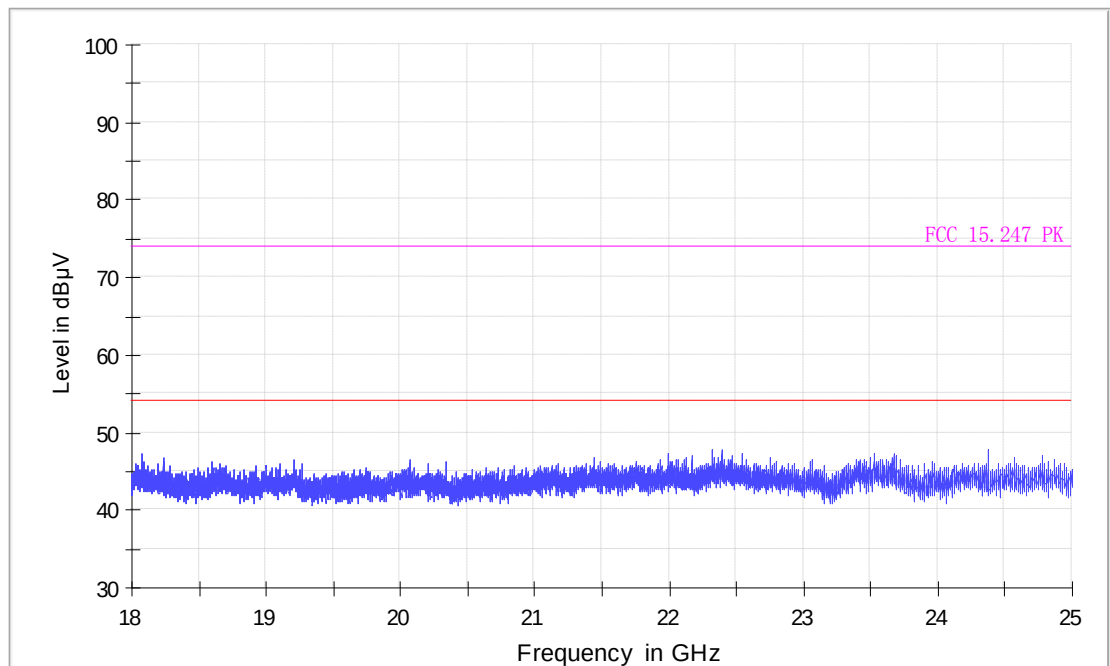
EUT Information

EUT Model Name: MW41TM
Operation mode: 11n-HT40 CH3
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

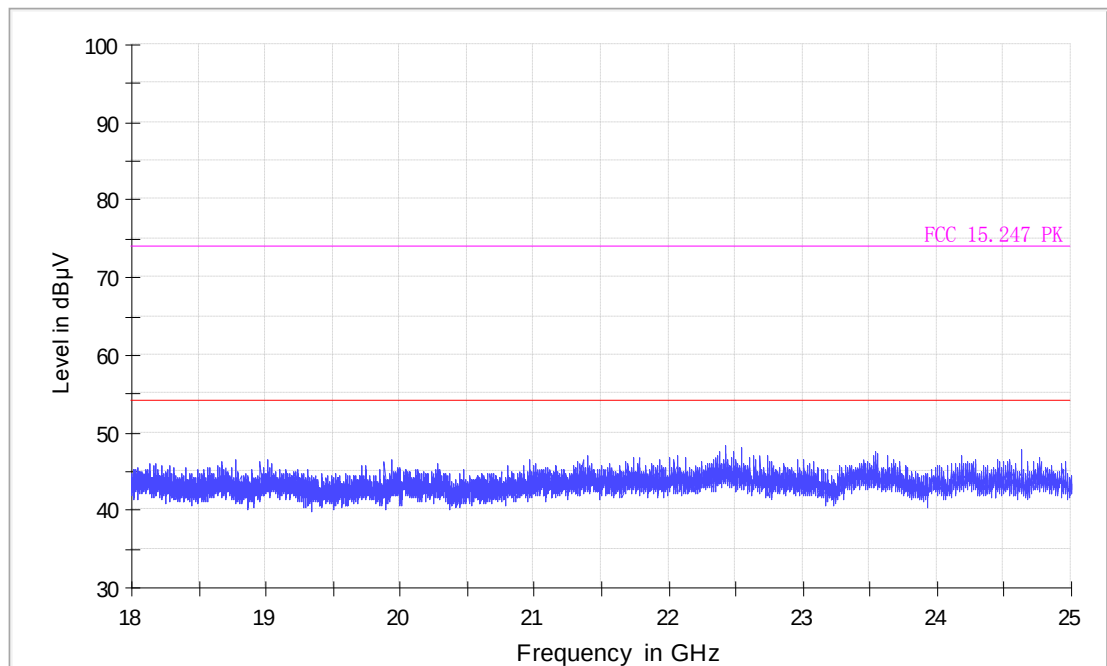
EUT Information

EUT Model Name: MW41TM
Operation mode: 11n-HT40 CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

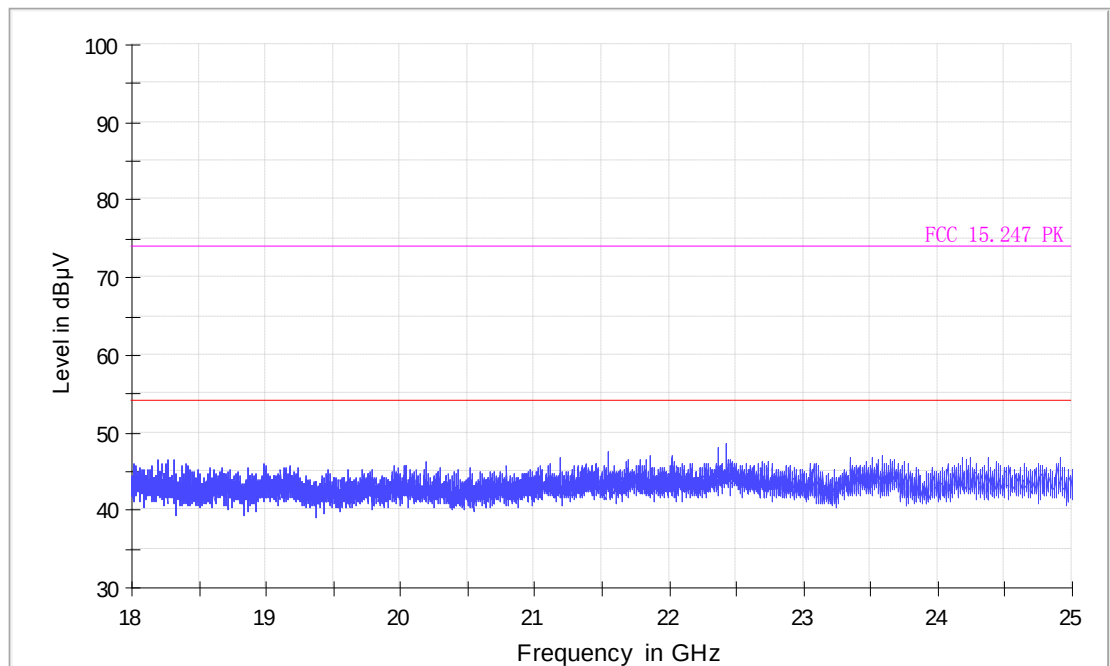
EUT Information

EUT Model Name: MW41TM
Operation mode: 11n-HT40 CH6
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

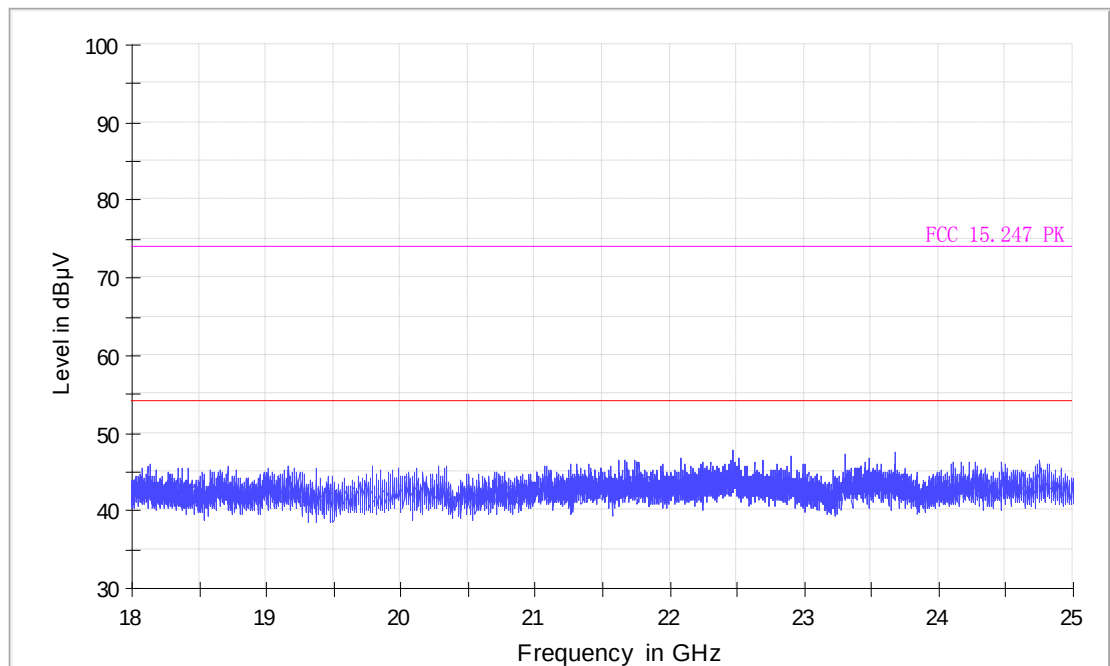
EUT Information

EUT Model Name: MW41TM
Operation mode: 11n-HT40 CH9
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Radiated Emission

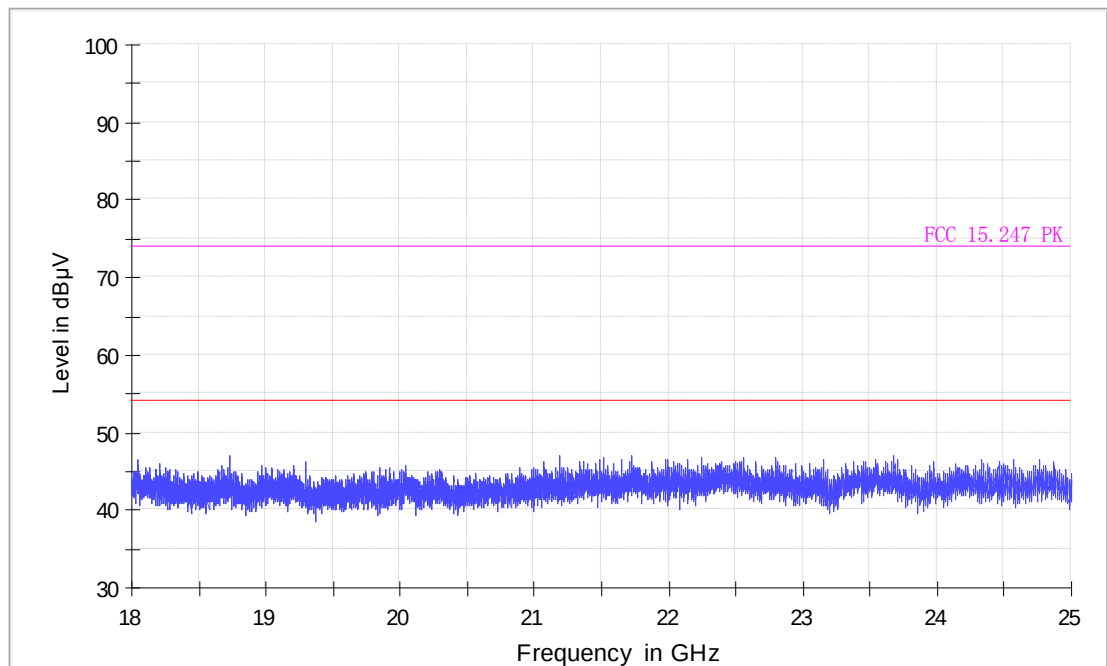
EUT Information

EUT Model Name: MW41TM
Operation mode: 11n-HT40 CH9
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 18-26.5GHz



Band edge

11b

CH1

Radiated Emission

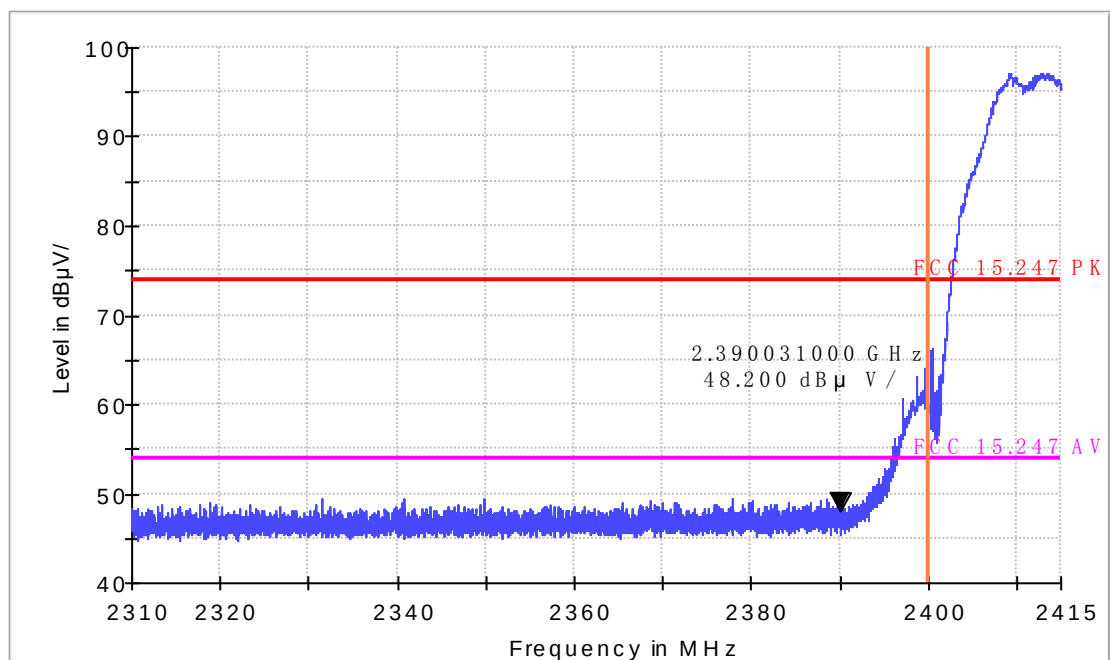
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11b CH1
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

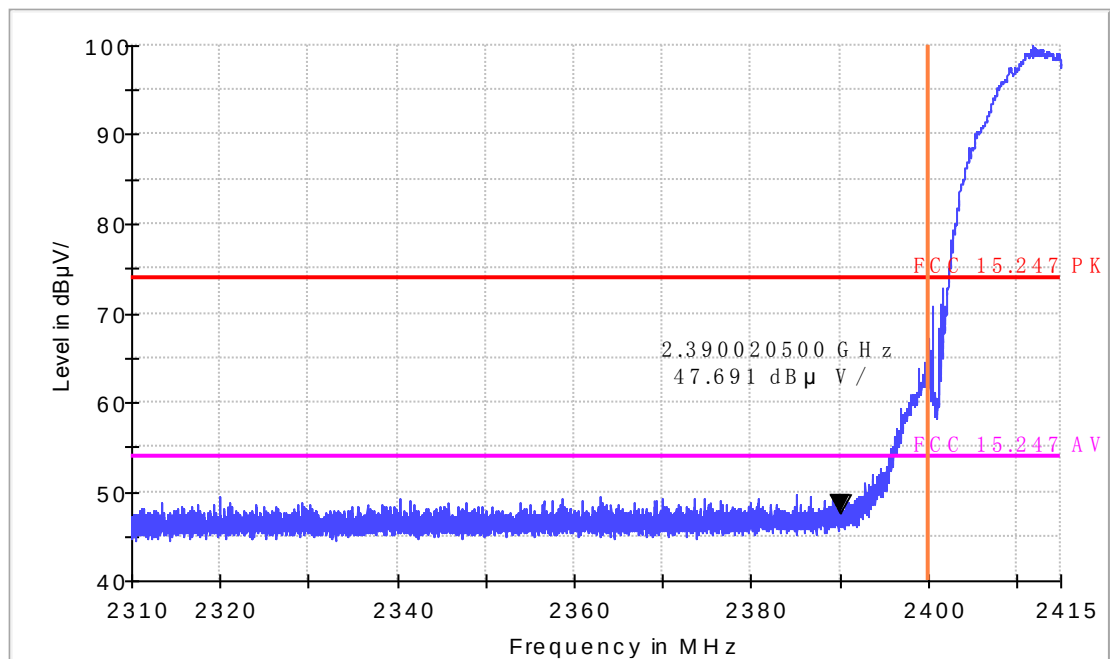
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11b CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

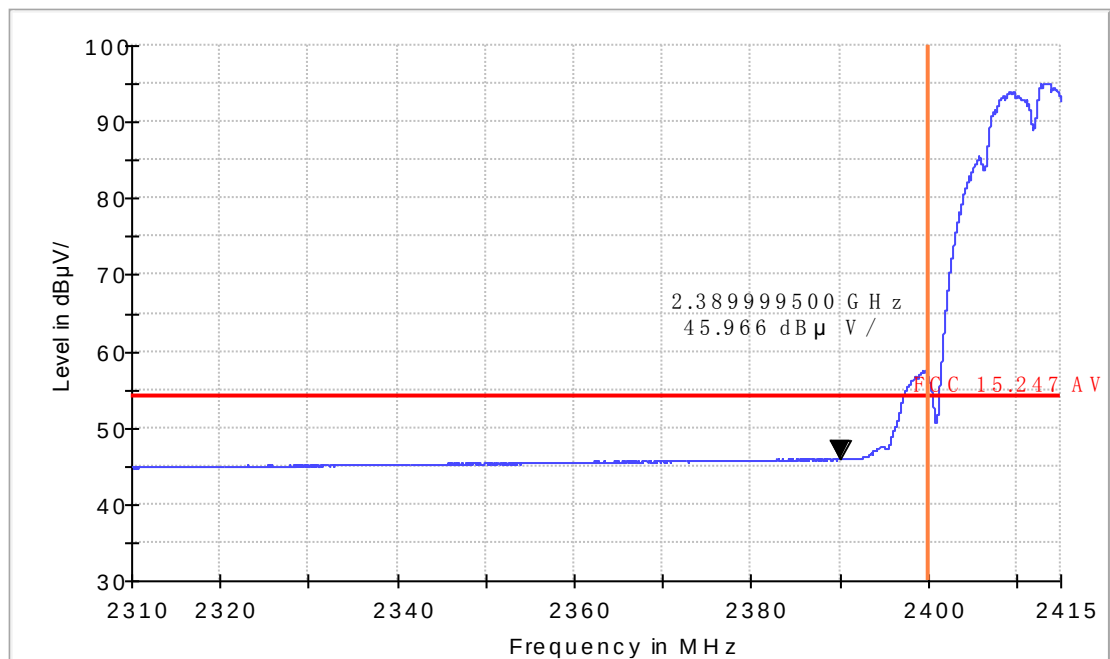
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11b CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

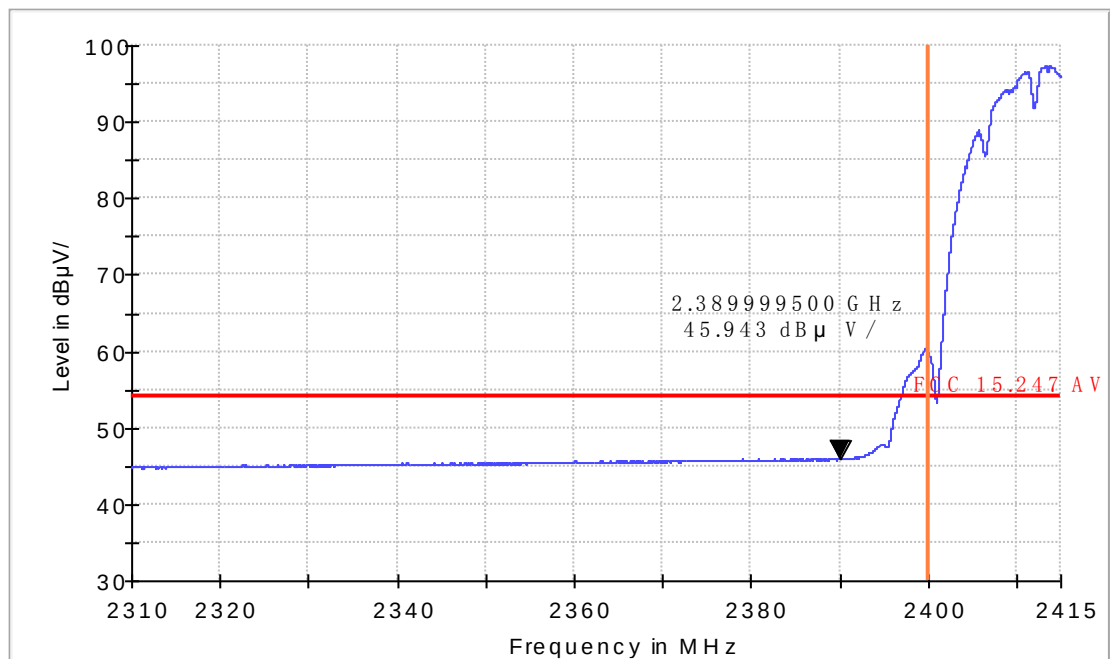
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11b CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Band edge

11g

CH1

Radiated Emission

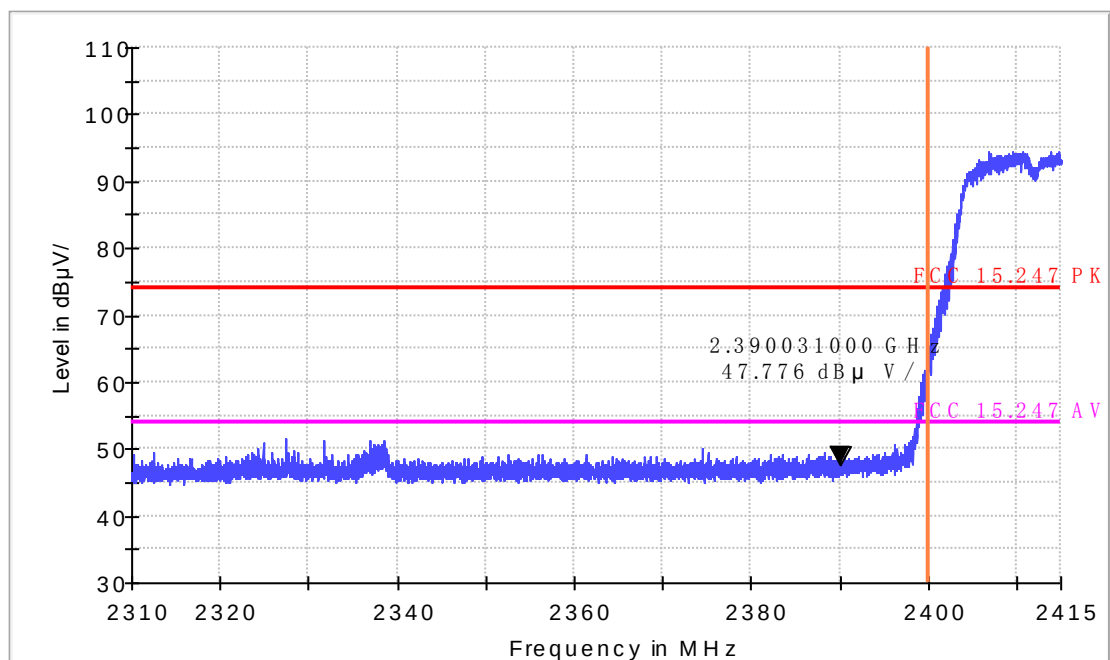
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11g CH1
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

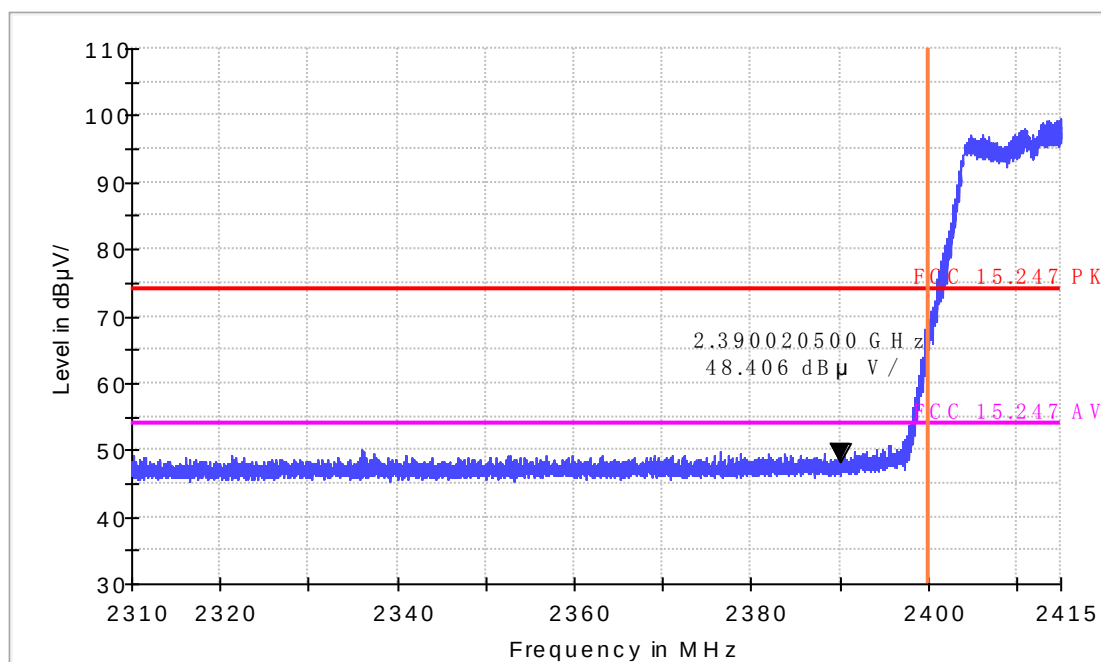
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11g CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

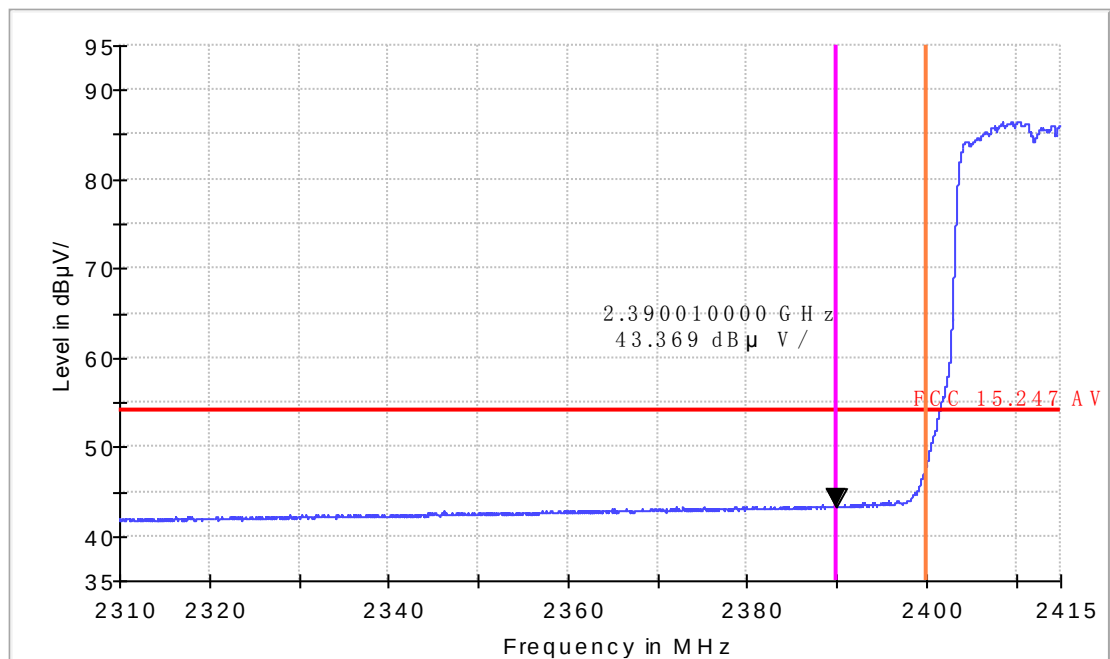
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11g CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

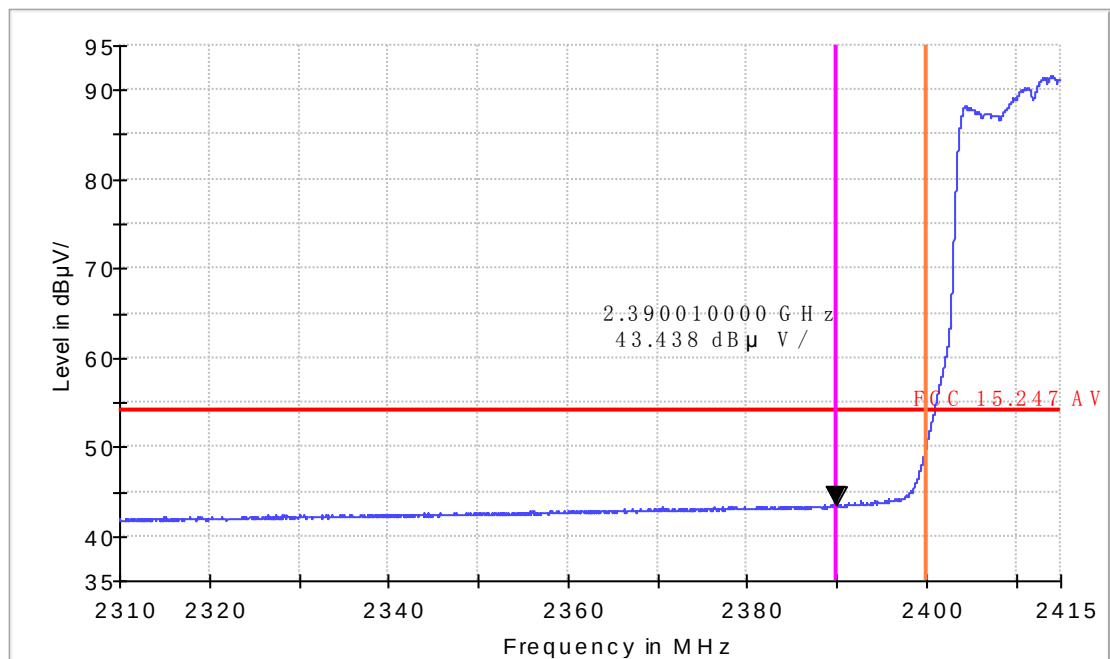
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11g CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Band edge

11n-HT20

CH1

Radiated Emission

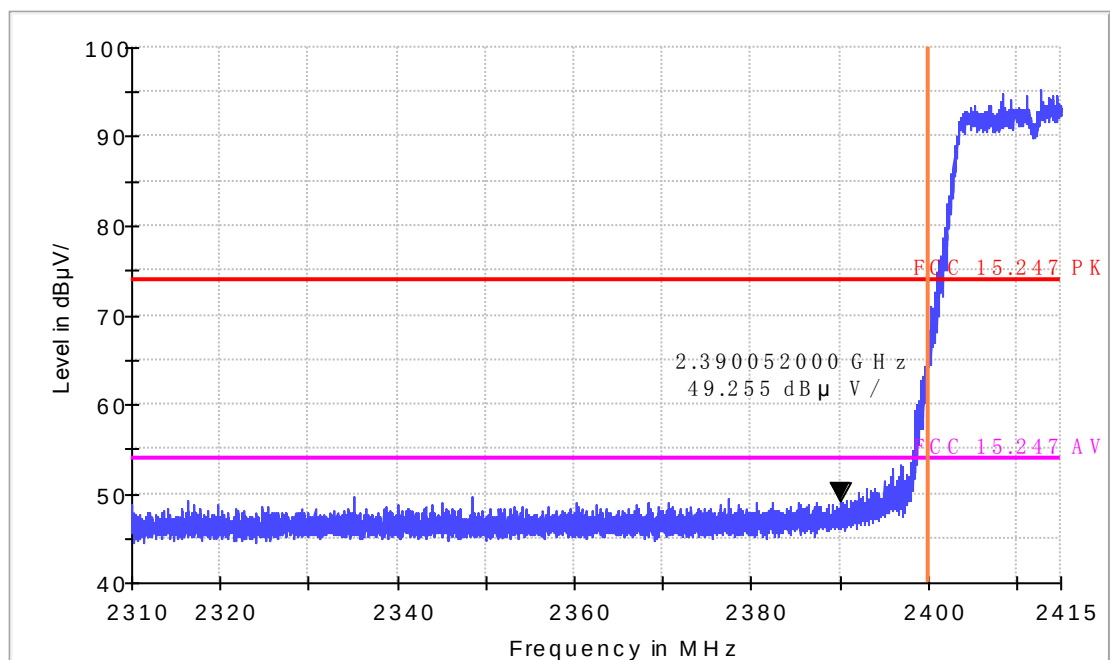
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

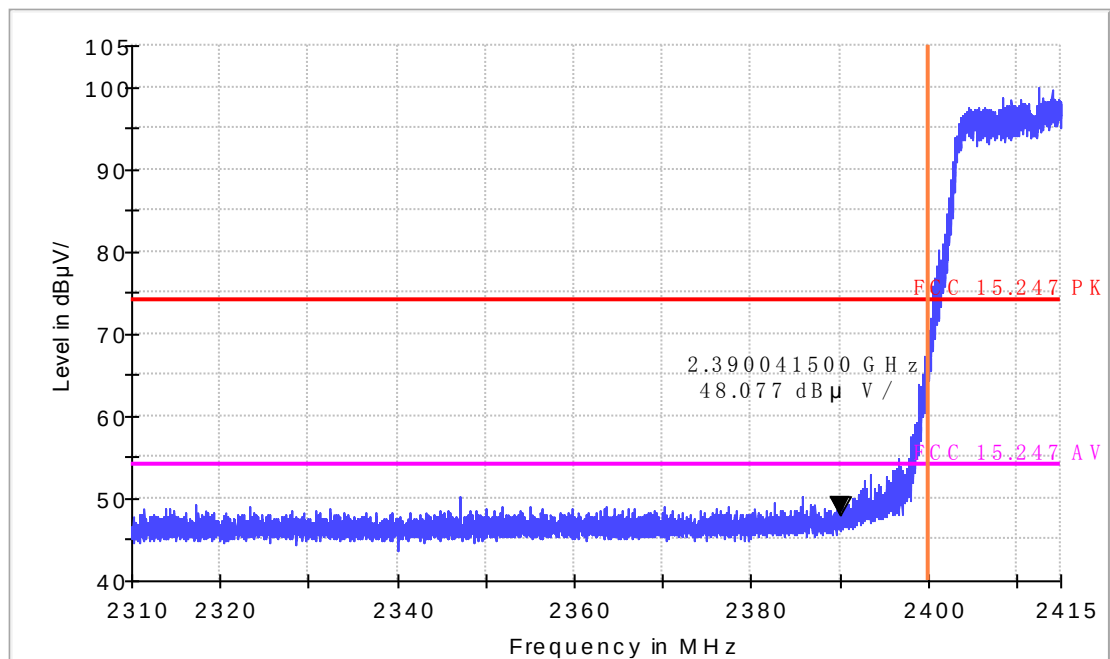
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

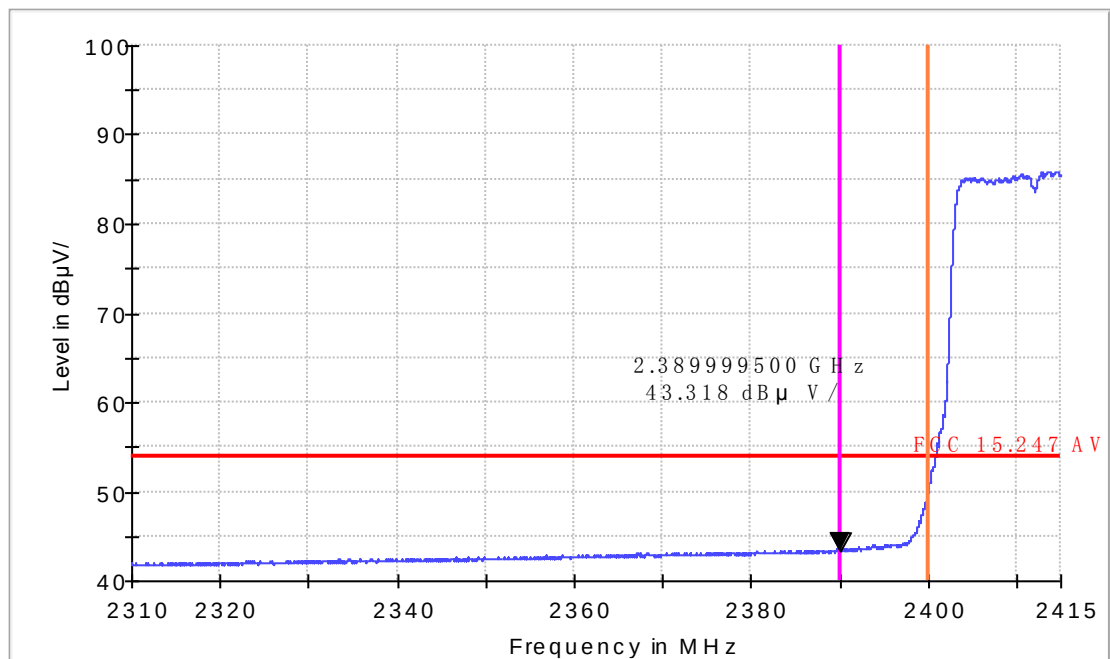
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

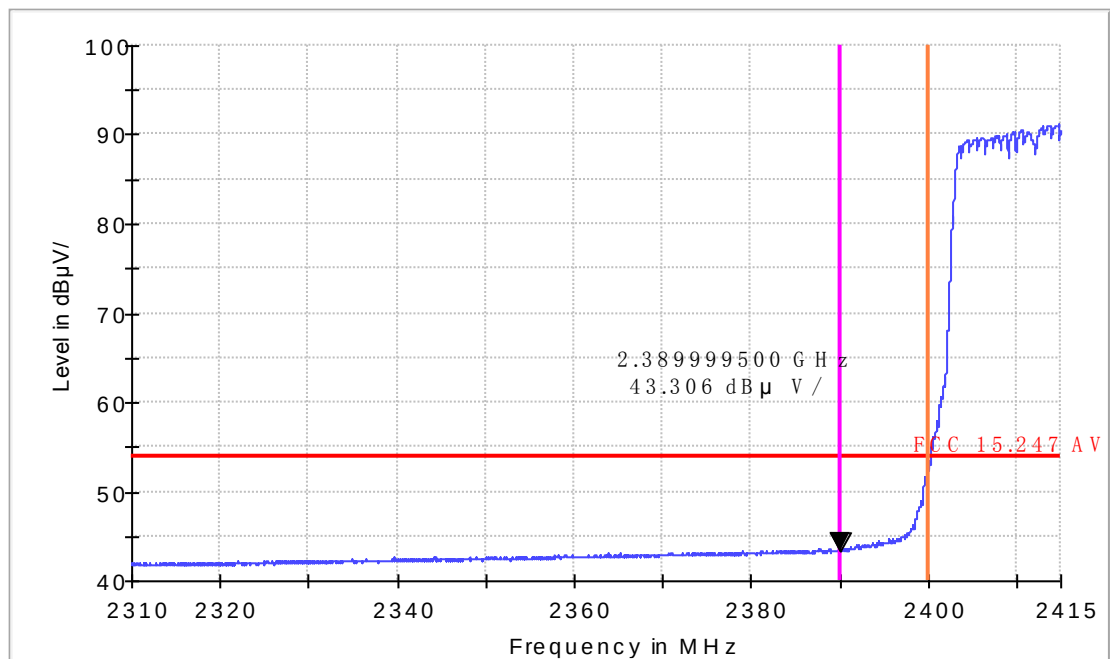
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Band edge

11n-HT40

CH3

Radiated Emission

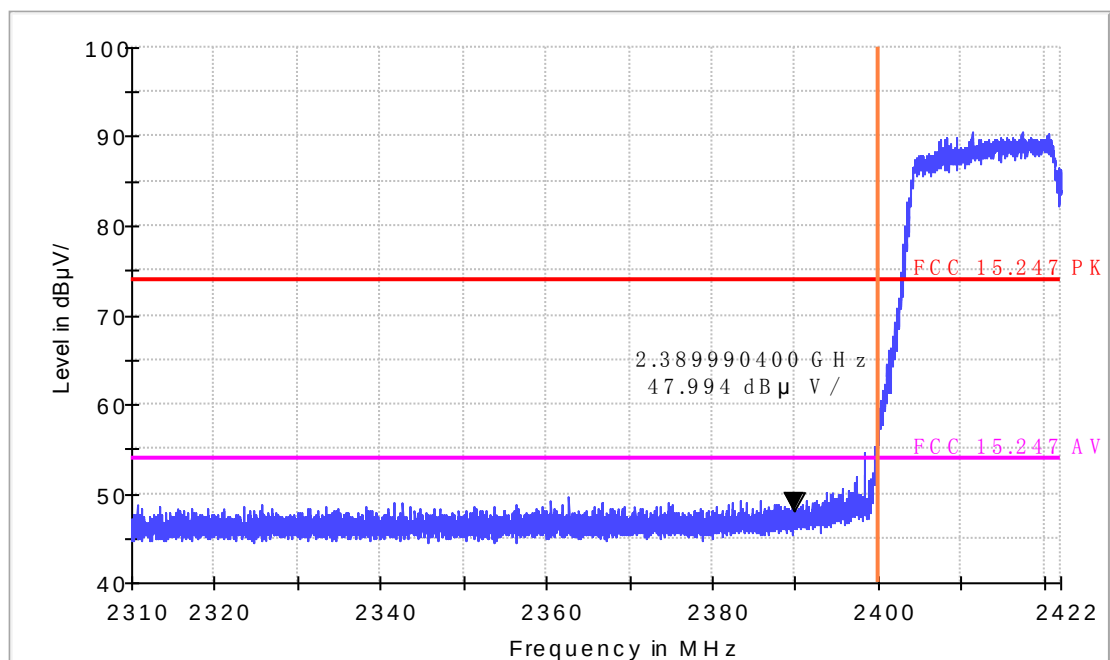
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n40 CH3
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

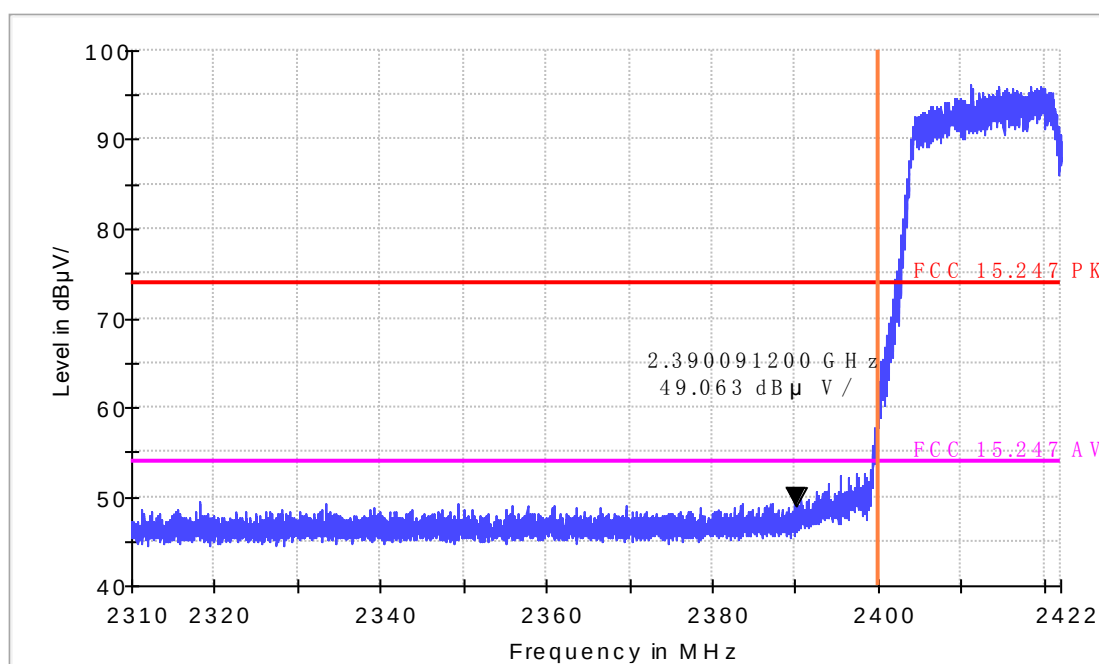
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n40 CH3
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

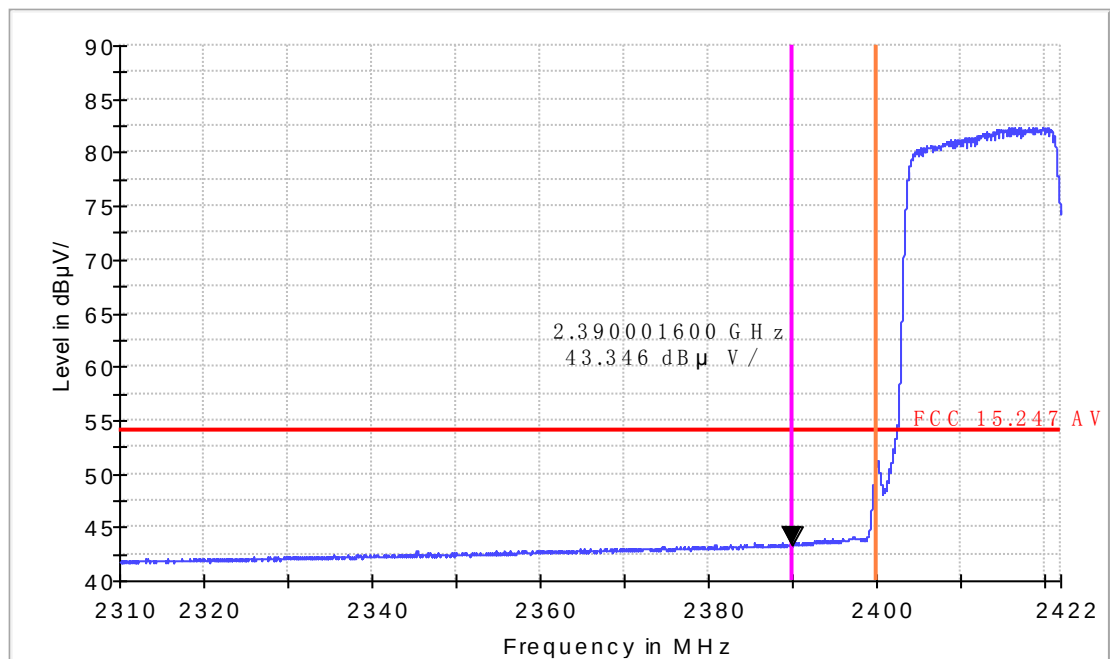
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n40 CH3
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

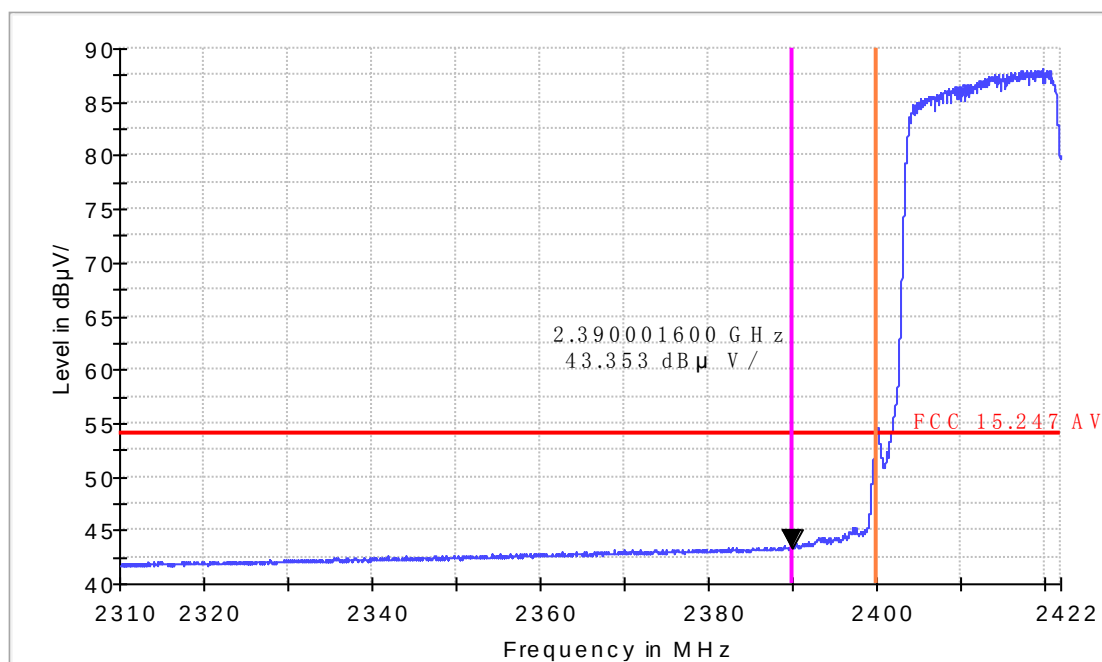
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n40 CH3
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Band edge

11b

CH11

Radiated Emission

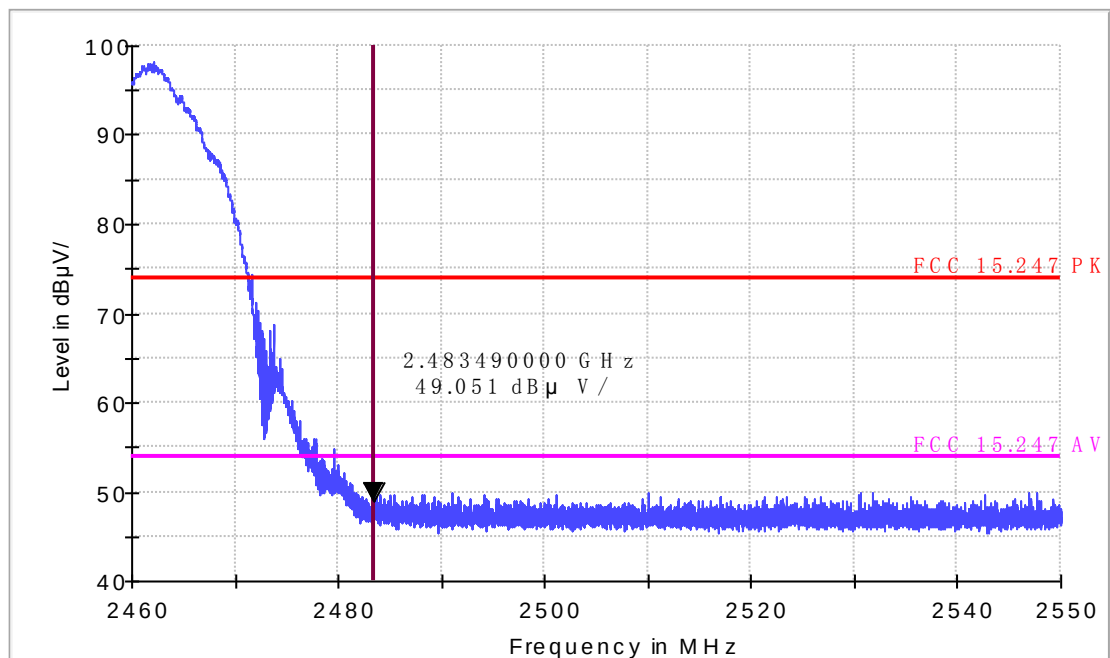
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

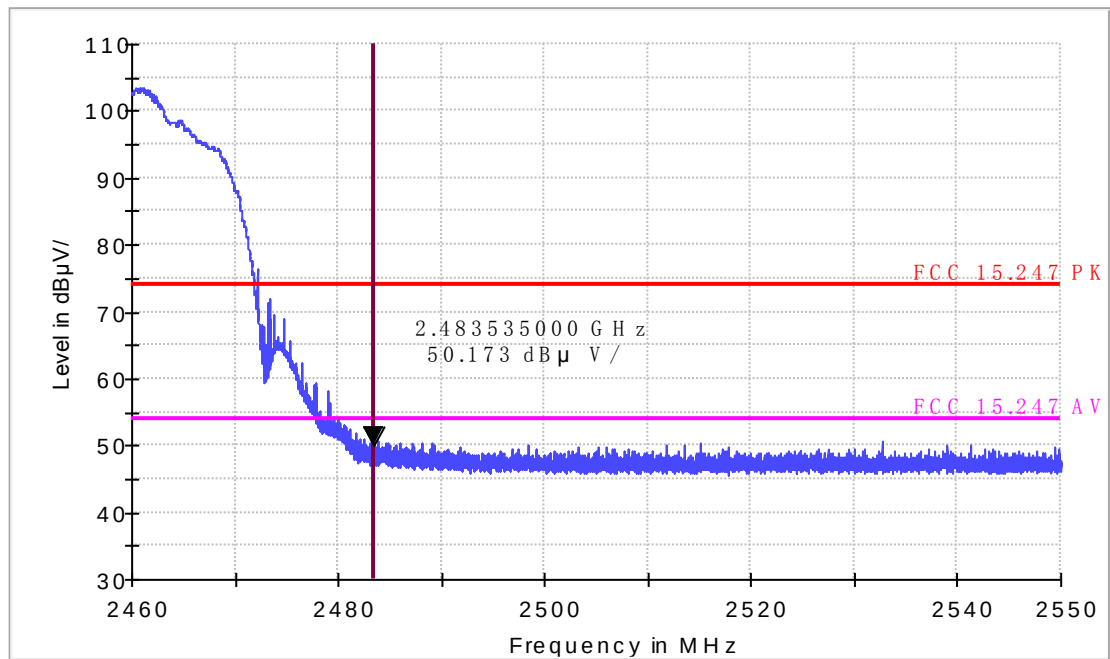
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

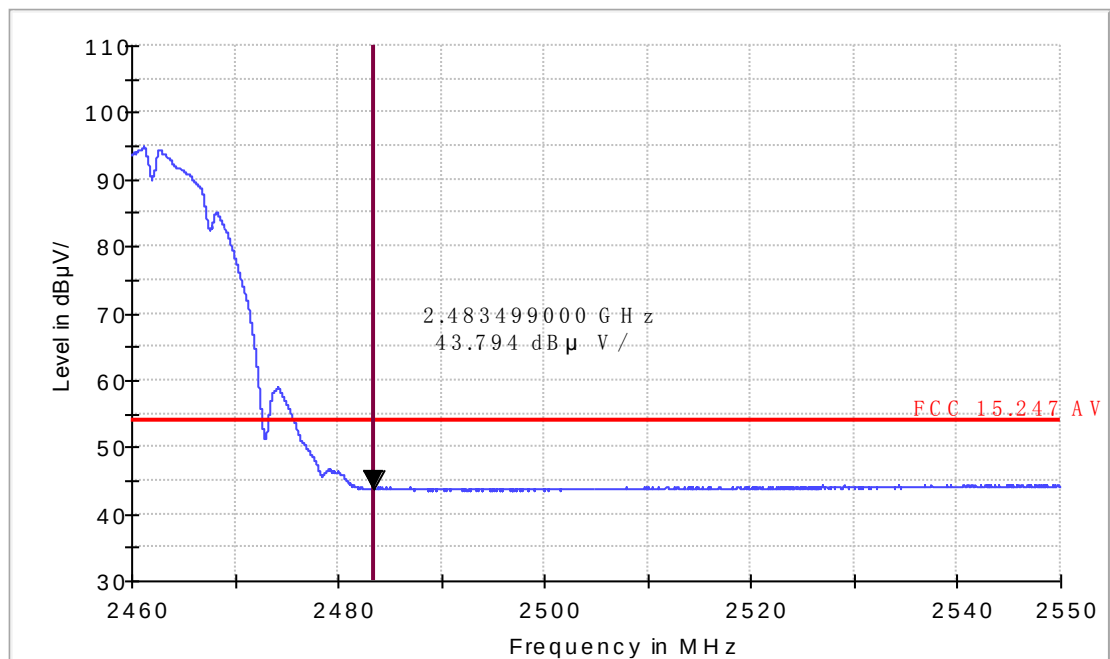
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

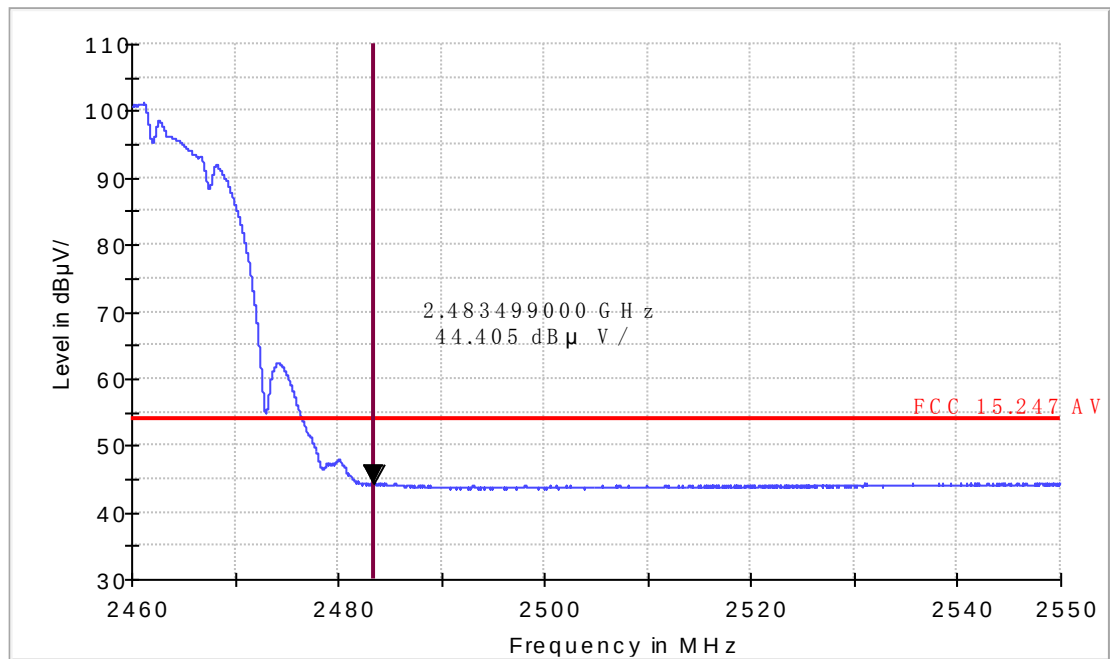
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Band edge

11g

CH11

Radiated Emission

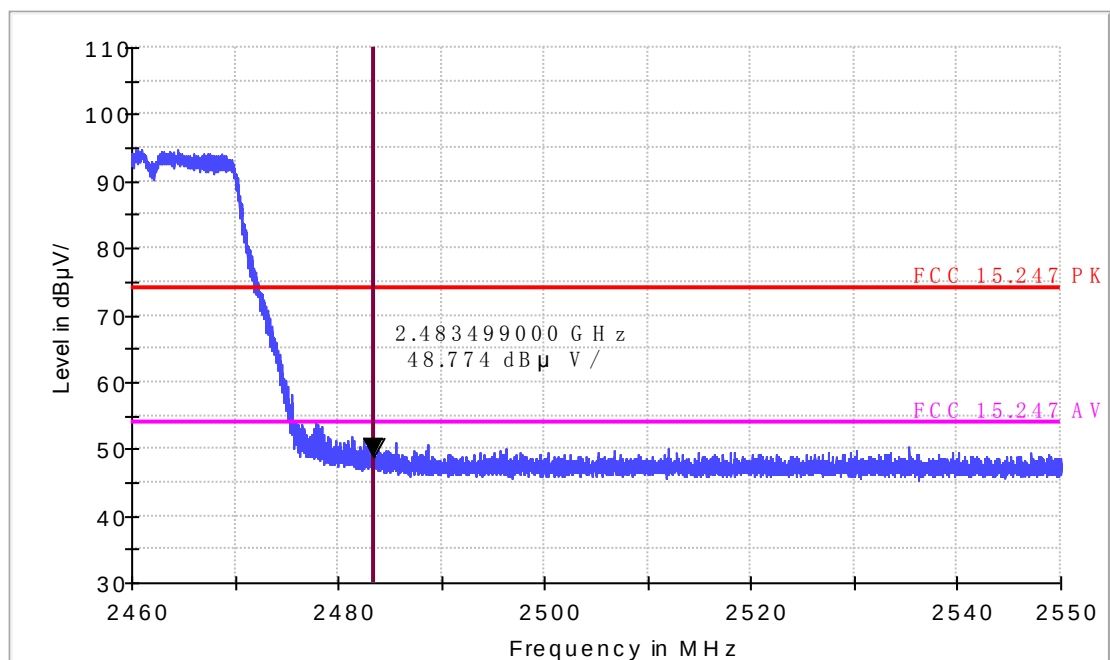
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11g CH11
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

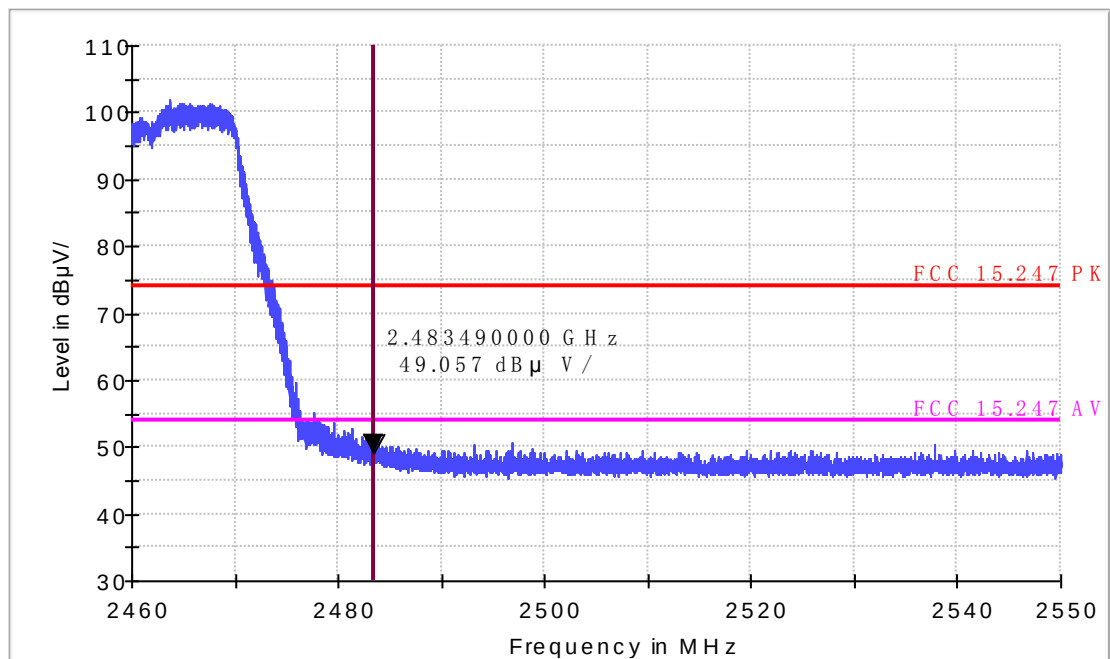
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11g CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

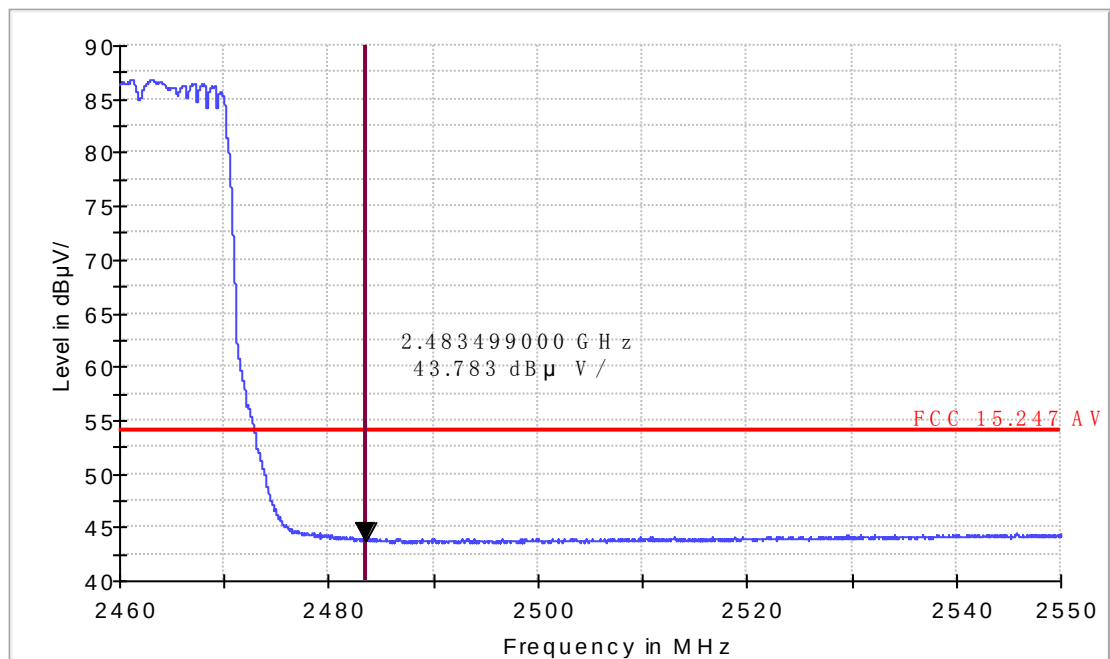
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11g CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

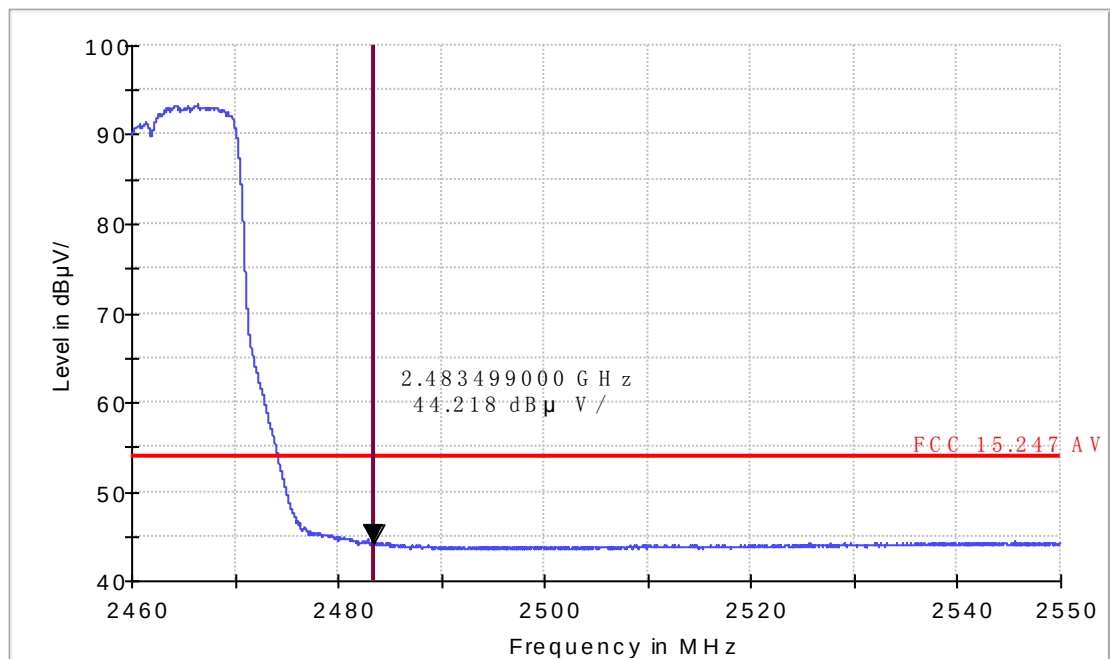
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11g CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Band edge

11n-HT20

CH11

Radiated Emission

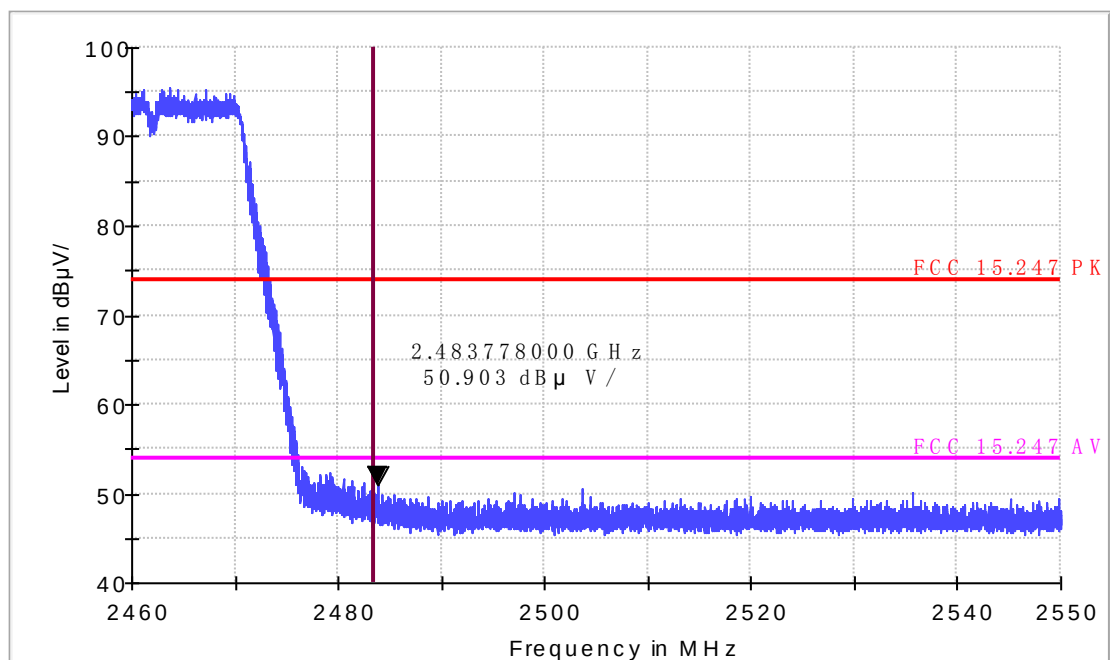
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

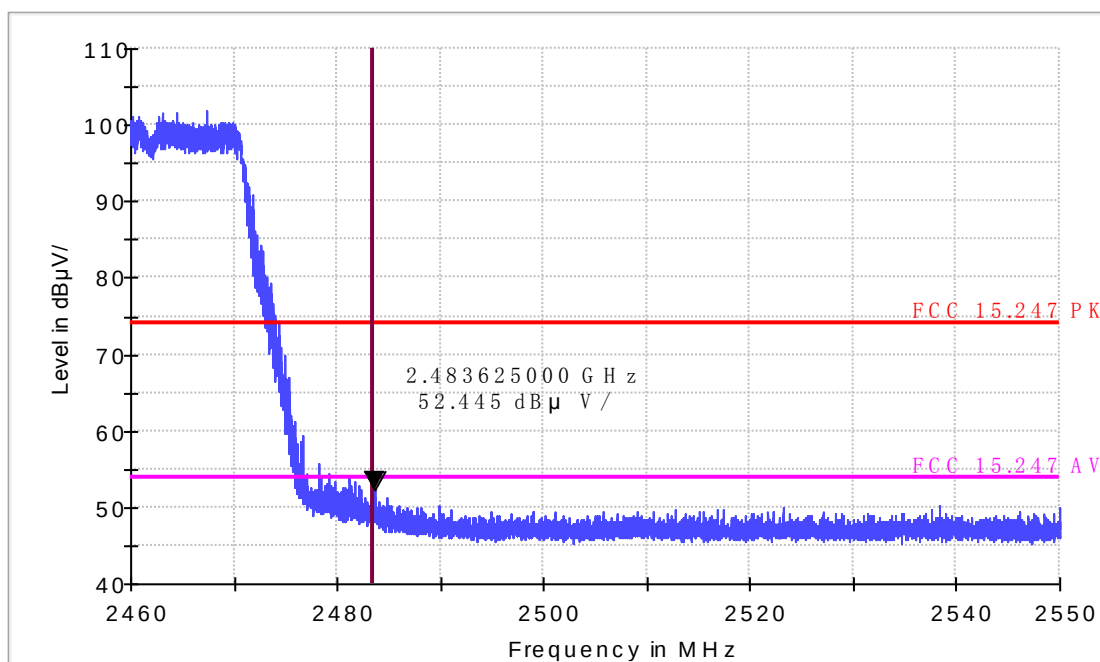
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

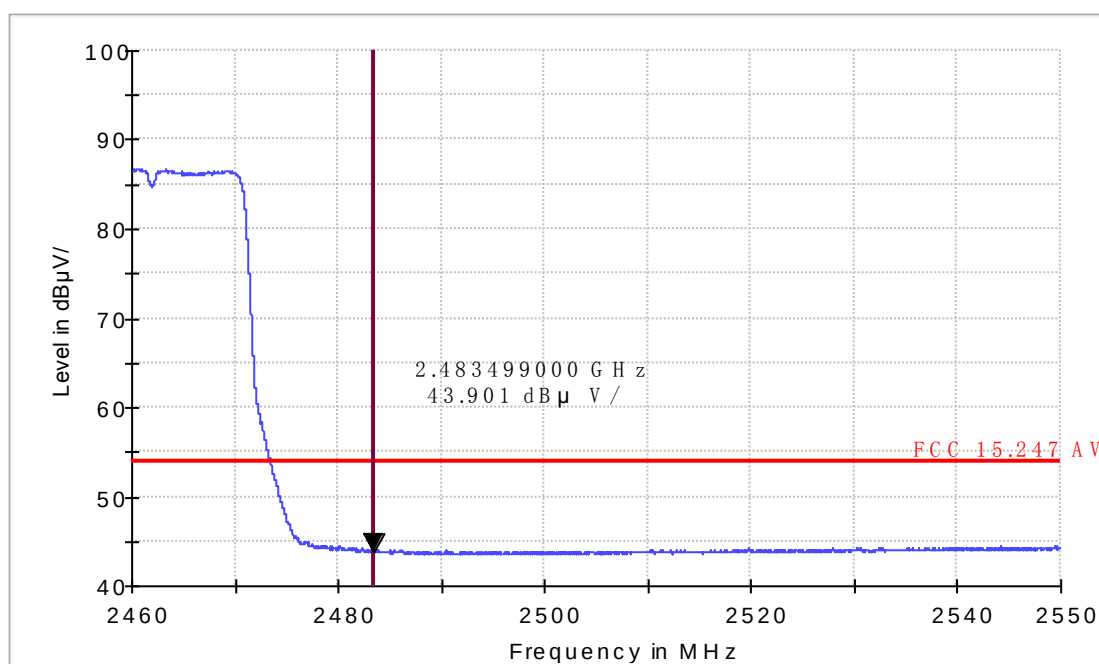
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

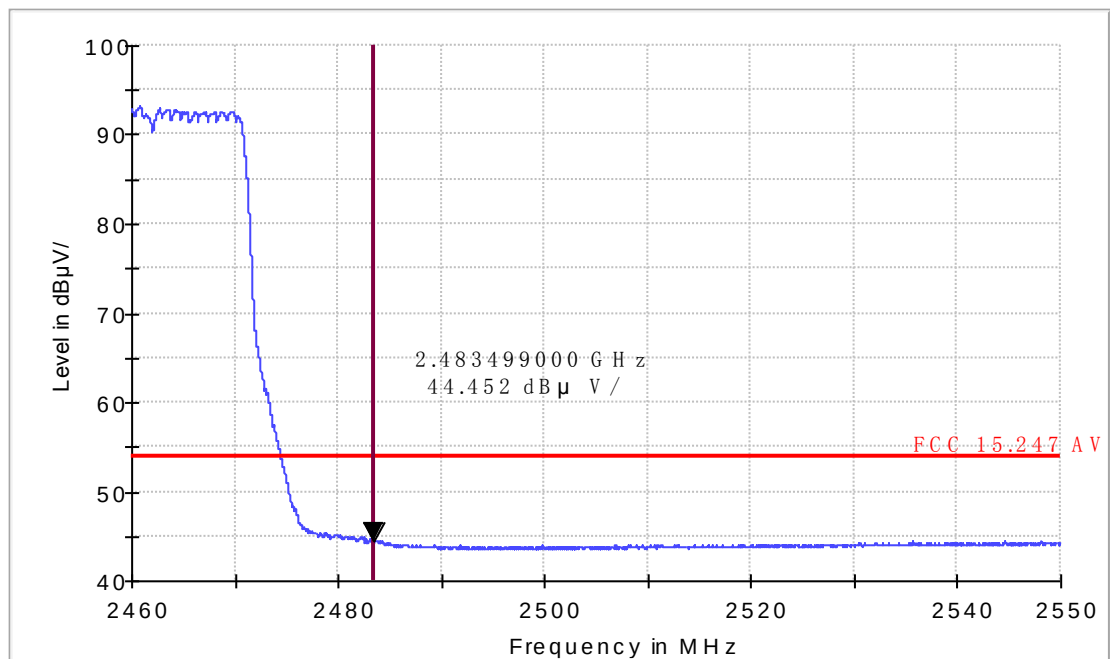
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Band edge

11n-HT40

CH9

Radiated Emission

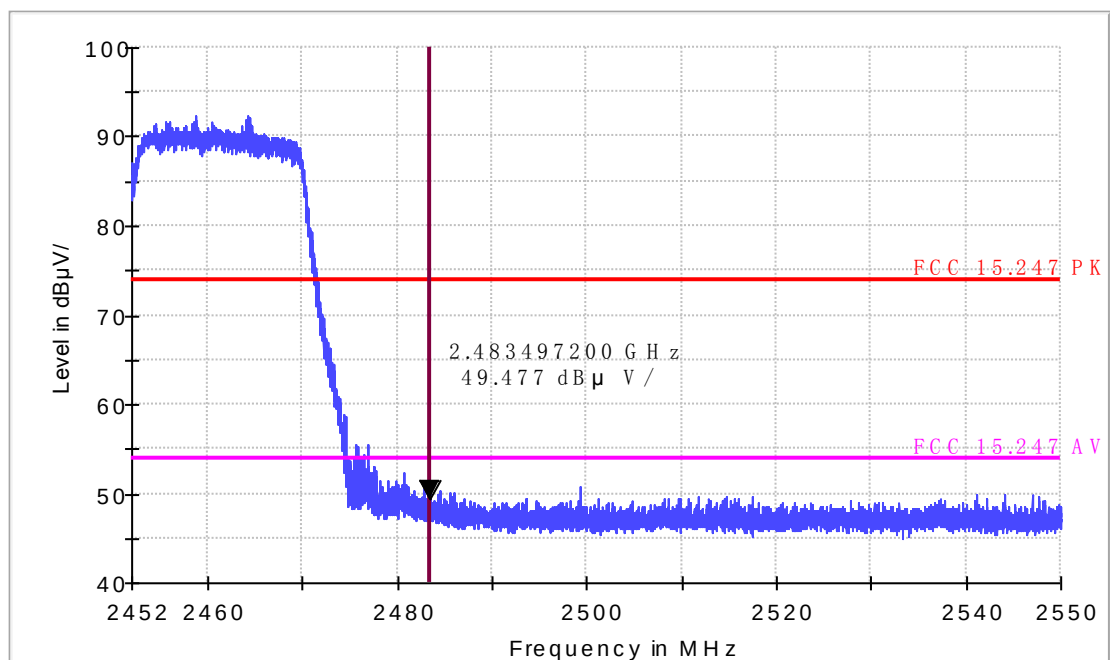
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n40 CH9
Test Voltage:
Comment:

Common Information

Test Site: SMO EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

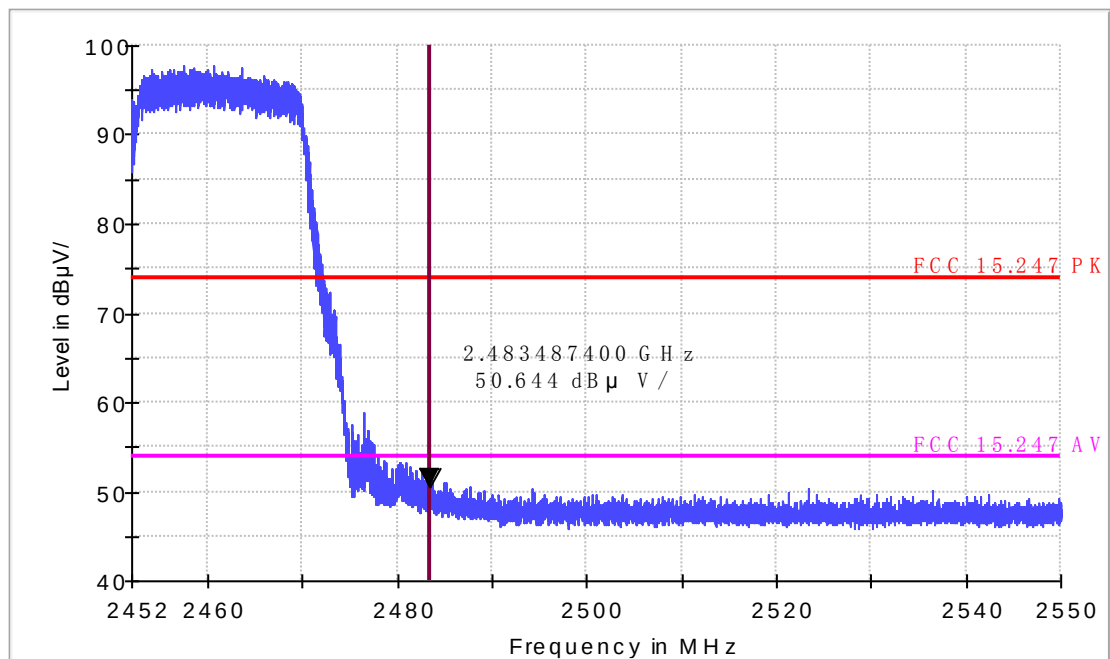
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n40 CH9
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

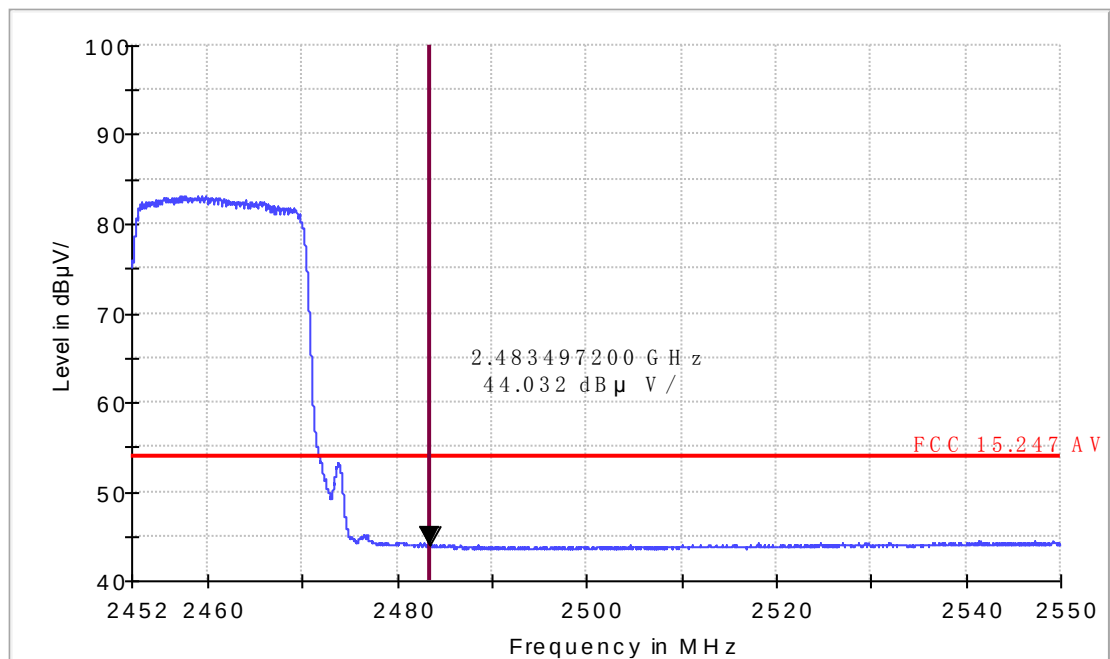
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n40 CH9
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

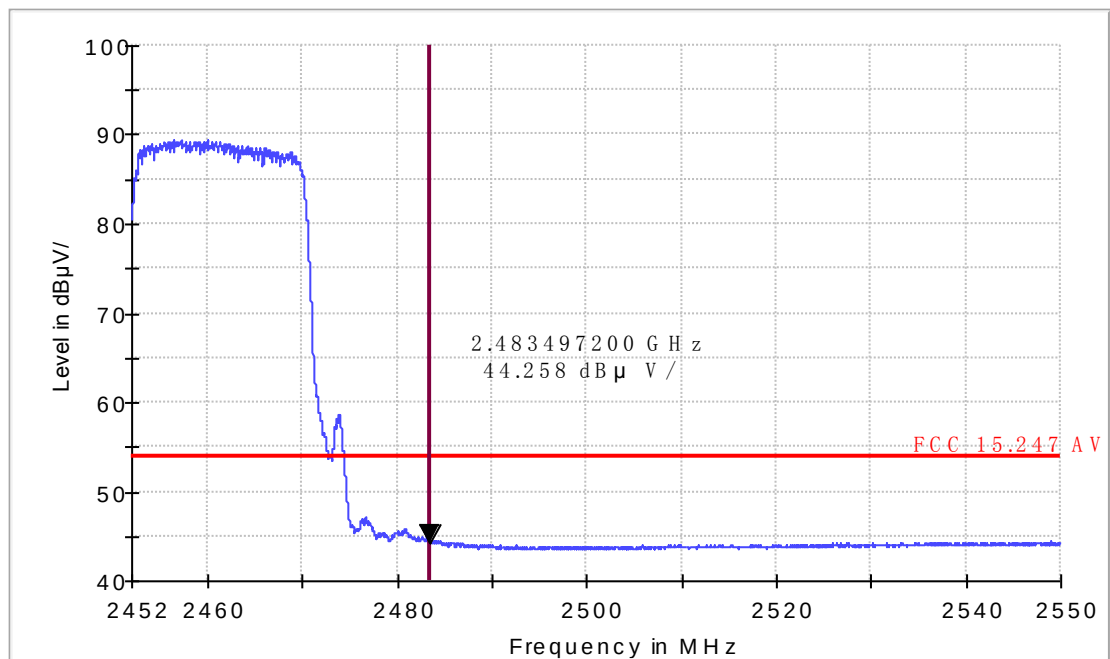
EUT Information

EUT Model Name: MW41TM
Operation mode: Wifi 11n40 CH9
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



11.CONDUCTED EMISSION TEST FOR AC POWER PORT MEASUREMENT

11.1.Test Standard and Limit

11.1.1.Test Standard

FCC Part 15 15.207
RSS-Gen Section8.8

11.1.2.Test Limit

Table 41 Conducted Disturbance Test Limit

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

* Decreasing linearly with logarithm of the frequency

* The lower limit shall apply at the transition frequency.

11.2.Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. According to the requirements of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

The bandwidth of EMI test receiver is set at 9kHz.

11.3.Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

11.4.Test Data

The emissions don't show in below are too low against the limits. Refer to the test curves.

Table 42 Conducted Disturbance Test Data

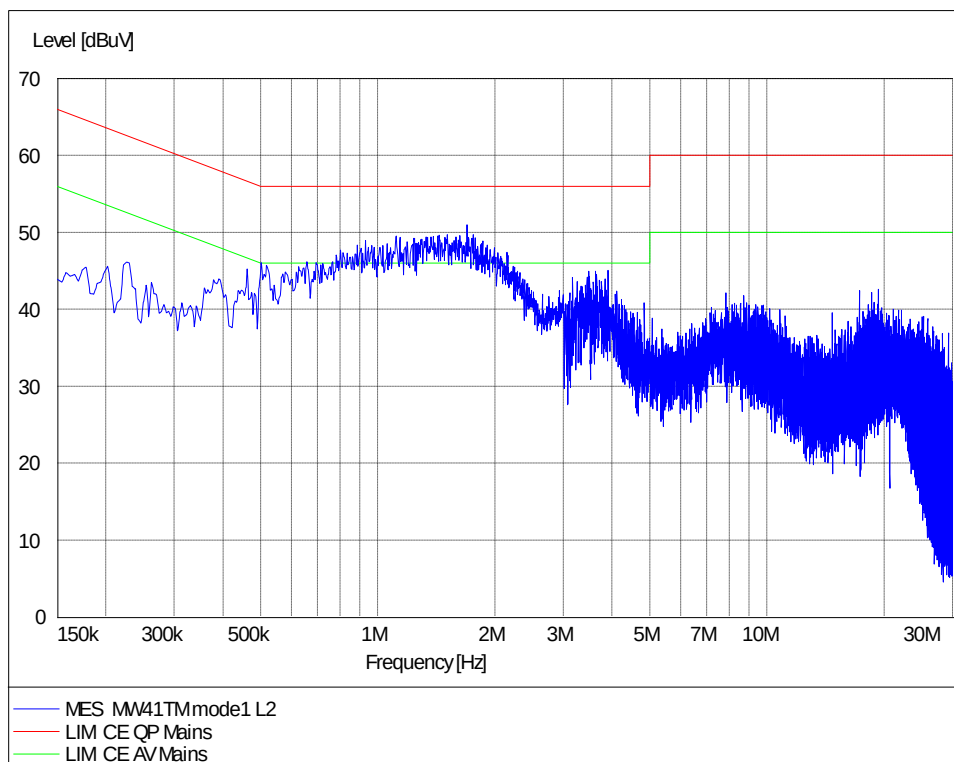
Model No.: MW41TM								
Test mode: Charging and transmitting								
	Frequency (MHz)	Correction Factor (dB)	Quasi-Peak			Average		
			Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)	Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)
Line	0.518	9.8	31.1	40.9	56	24.4	34.2	46
	0.814	9.8	28.8	38.6	56	16.6	26.4	46
	0.93	9.8	30.0	39.8	56	20.9	30.7	46
	1.23	9.8	31.2	41	56	21.7	31.5	46
	1.458	9.8	30.9	40.7	56	21.7	31.5	46
	1.698	9.8	30.1	39.9	56	21.5	31.3	46
Neutral	0.398	9.7	33.8	43.5	57.9	27.2	36.9	47.9
	0.51	9.8	31.5	41.3	56	24.8	34.6	46
	0.894	9.8	30.7	40.5	56	23.4	33.2	46
	1.114	9.8	30.1	39.9	56	23.2	33	46
	1.35	9.8	29.7	39.5	56	23.0	32.8	46
	1.662	9.8	29.1	38.9	56	22.2	32	46

REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)

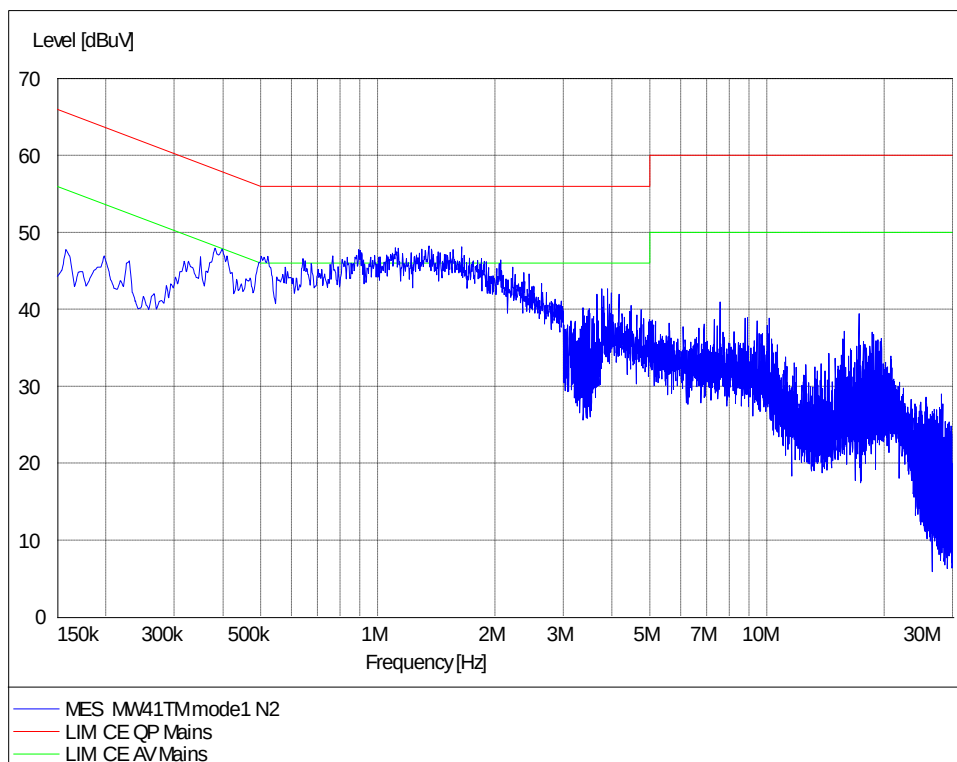
2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)

3. The other emission levels were very low against the limit.

EUT: MW41TM
Manufacturer:
Operating Condition: Charging and transmitting
Test Site:
Operator:
Test Specification: L
Comment: AC 120V/60Hz



EUT: MW41TM
Manufacturer:
Operating Condition: Charging and transmitting
Test Site:
Operator:
Test Specification: N
Comment: AC 120V/60Hz



12.ANTENNA REQUIREMENTS

12.1.Applicable requirements

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

12.2.Antenna Connector

Antenna Connector is on the PCB within enclosure and not accessible to user.

12.3.Antenna Gain

The antenna gain of EUT is less than 6 dBi.

13.99% OCCUPIED BANDWIDTH

13.1.LIMITS OF 99%Occupied Bandwidth

None; for reporting purposes only

13.2.TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer.

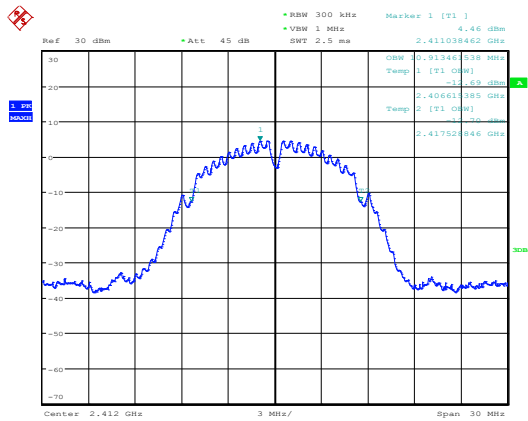
The transmitter output is connected to a spectrum analyzer. The RBW is set to $\geq 1\%$ of the 20 dB

bandwidth. The VBW is set to $\geq$ RBW. The sweep time is coupled

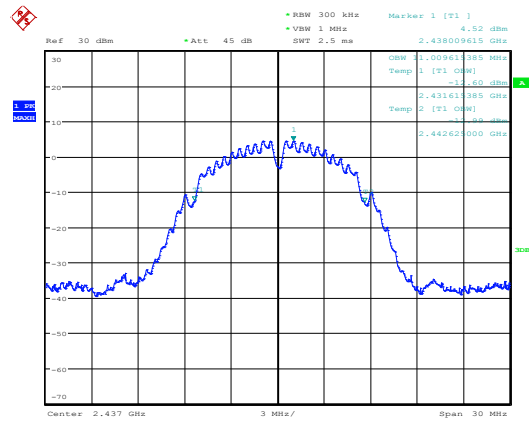
13.3.TEST DATA

Table 43 99%Occupied Bandwidth Test Data 802.11b

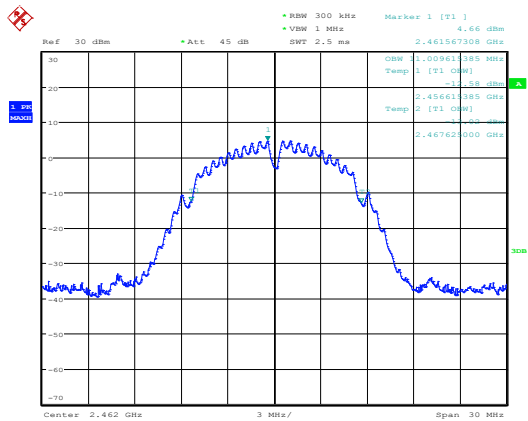
Center Freq.[MHz]	99%Occupied Bandwidth [MHz]
2412	10.913
2437	11.096
2462	11.096



Date: 10.MAY.2016 14:46:07



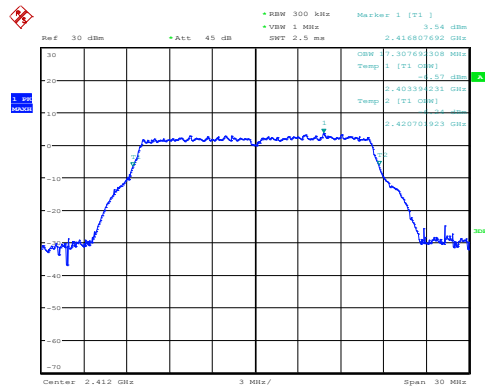
Date: 10.MAY.2016 14:46:27



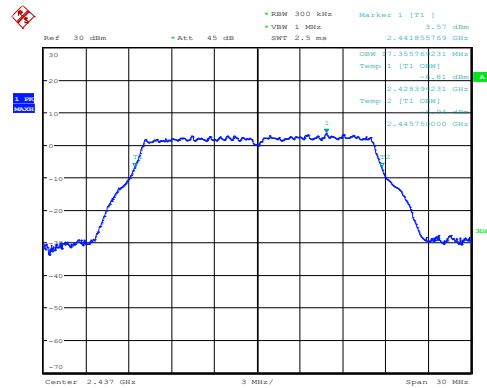
Date: 10.MAY.2016 14:46:53

Table 44 99%Occupied Bandwidth Test Data 802.11g

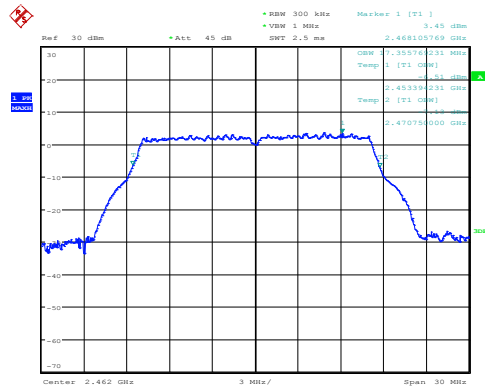
Center Freq.[MHz]	99%Occupied Bandwidth [MHz]
2412	17.308
2437	17.356
2462	17.356



Date: 10.MAY.2016 14:47:29



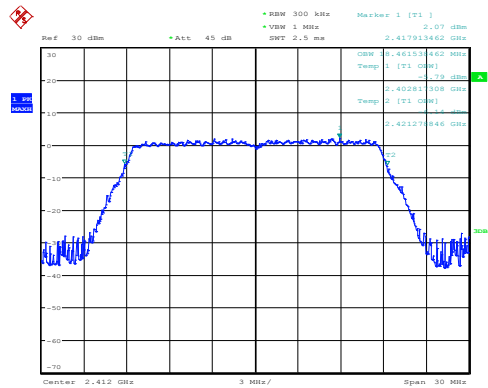
Date: 10.MAY.2016 14:48:18



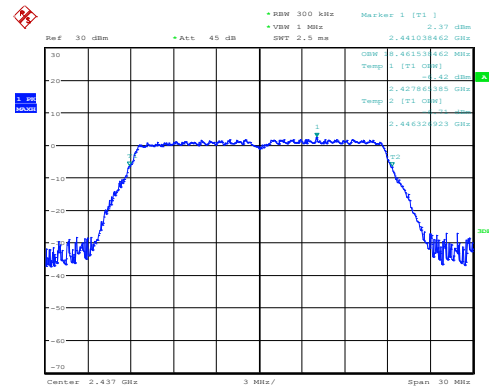
Date: 10.MAY.2016 14:48:56

Table 45 99%Occupied Bandwidth Test Data 802.11n HT20

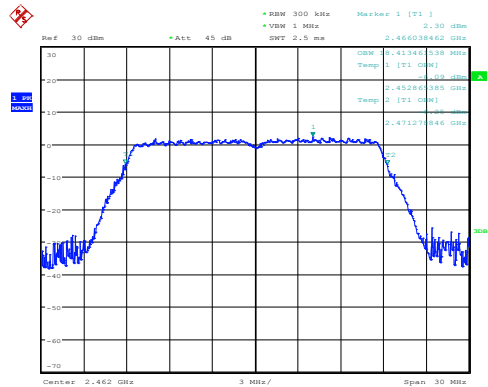
Center Freq.[MHz]	99%Occupied Bandwidth [MHz]
2412	18.462
2437	18.462
2462	18.413



Date: 10.MAY.2016 14:49:46



Date: 10.MAY.2016 14:50:35



Date: 10.MAY.2016 14:51:17