

FCC 15.247 & RSS-247 2.4GHz Test Report

for

Ethereal Home Theater, LLC
460 Walker St, Holly Hill, FL 32117, United States

**Product Name : 13 OUTLET 2U SMART
POWER**
Model Name : PR-R13PI
Brand : BIG DOG POWER
FCC ID : 2A47N-PRR13PI
IC : 27941-PRR13PI

**Prepared by: : AUDIX Technology Corporation,
EMC Department**



The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

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Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

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TEST REPORT

Applicant : Ethereal Home Theater, LLC
EUT Description
(1) Product : 13 OUTLET 2U SMART POWER
(2) Model : PR-R13PI
(3) Brand : BIG DOG POWER
(4) Power Supply: AC 120V, 60Hz

Applicable Standards:

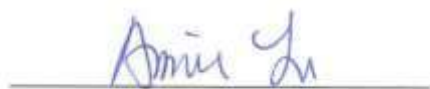
Title 47 CFR FCC Part 15 Subpart C
RSS-Gen (Issue 5), Amendment 2, February 2021
RSS-247 (Issue 2), February 2017
ANSI C63.10:2013

Audix Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Audix Technology Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

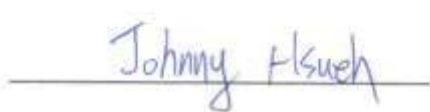
Date of Report: 2022. 03. 18

Reviewed by:



(Annie Yu/Administrator)

Approved by:



(Johnny Hsueh/Section Manager)



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No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

1. REVISION RECORD OF TEST REPORT

Edition No	Issued Data	Revision Summary	Report Number
0	2022. 03. 18	Original Report	EM-F220108

2. SUMMARY OF TEST RESULTS

Rule		Description	Results
FCC	IC		
15.207	RSS-Gen §8.8	Conducted Emission	PASS
15.247(d)/ 15.205	RSS-Gen §8.9 RSS-247 §5.5	Radiated Band Edge and Radiated Spurious Emission	PASS (Note*)
15.247(a)(2)	RSS-247 §5.2(1)	DTS/Occupied Bandwidth	PASS
15.247(b)(3)	RSS-247 §5.4(4)	Maximum Peak Output Power	PASS
15.247(d)	RSS-247 §5.5	Conducted Band Edges and Conducted Spurious Emission	PASS
15.247 (e)	RSS-247 §5.2(2)	Peak Power Spectral Density	PASS
15.203	---	Antenna Requirement	Compliance
Note: The uncertainties value is not used in determining the result. (*)According to ANSI C63.10-2013 5.10.7, we evaluated that EUT connect with at least one external accessories of each type of port at full load.			



Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

3. GENERAL INFORMATION

3.1. Description of Application

Applicant	Ethereal Home Theater, LLC 460 Walker St, Holly Hill, FL 32117, United States
Product	13 OUTLET 2U SMART POWER
Model	PR-R13PI
Brand	BIG DOG POWER

3.2. Description of EUT

Test Model	PR-R13PI		
Serial Number	N/A		
Power Rating	AC 120V, 60Hz		
RF Features	WLAN:802.11b/g/n		
Transmit Type	802.11b	1T1R	
	802.11g	1T1R	
	802.11n-HT20	1T1R	
	802.11n-HT40	1T1R	
Test Sample	Sample No.	Test Item	Firmware
	02	AC Conduction, RSE, Conducted Tests	N/A
Sample Status	Trial sample		
Date of Receipt	2022. 01. 18		
Date of Test	2022. 02. 21 ~ 03. 07		
Interface Ports of EUT	Front • USB port x1 • Service Outlet x1 Rear • Ethernet port x1 • UPS port x1 • Antenna port x1 • Grounding port x1 • Thermistor Inputs *1 • USB port x1 • Contact Sensor Input x1 • Relay Output x1 • AC Inlet x1 • AC Outlet x12		
Accessories Supplied	AC Power Cord (3C)		

3.3. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain(dBi)
1.	Q0211	Shenzhen, science and technology co., LTD	Dipole	2400~2483.5	2.0

3.4. EUT Specifications Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation	Data Rate (Mbps)
802.11b	2412-2472	13	DSSS (DBPSK/DQPSK/CCK)	Up to 11
802.11g		13	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11n-HT20				Up to 72.2
802.11n-HT40	2422-2462	11	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 150

Channel List			
802.11 b/g/n-HT20		802.11n-HT40	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	10	2457
9	2452	11	2462
10	2457	---	
11	2462		
12	2467		
13	2472		

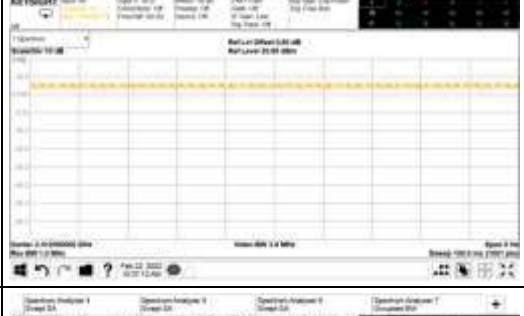
3.5. Descriptions of Key Components

Item	Supplier	Model / Type	Character
WiFi Module	Espressif Systems (Shanghai) Co.,Ltd	ESP32-WROOM-32U	FCC ID: 2AC7Z-ESP32WROOM32U IC: 21098-ESPWROOM32U

3.6. Test Configuration

Mode	TX _{on} (ms)	1/ TX _{on} (kHz)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
802.11b	1.000	1.000	1.000	N/A
802.11g	1.000	1.000	1.000	N/A
802.11n-HT20	1.000	1.000	1.000	N/A
802.11n-HT40	1.000	1.000	1.000	N/A

Note: When duty cycle is less than 98% (0.98) that duty cycle factor 10log(1/x) is needed to add in conducted test items measured in average detector.

Mode	TX _{on} (ms)	T _{on} +T _{off} (ms)
802.11b		---
802.11g		---
802.11n-HT20		---
802.11n-HT40		---

AC Conduction
Normal operation

Item	Mode	Data Rate	Test Channel
Radiated Test Case	Radiated Band Edge Note1	802.11b	1Mbps
		802.11g	6Mbps
		802.11n-HT20	MCS0
		802.11n-HT40	MCS0
	Radiated Spurious Emission Note1 & 2	802.11b	7
		802.11g	7
		802.11n-HT20	2
		802.11n-HT40	4
Conducted Test Case	DTS/occupied Bandwidth	802.11b	1Mbps
		802.11g	6Mbps
		802.11n-HT20	MCS0
		802.11n-HT40	MCS0
	Peak Output Power	802.11b	1Mbps
		802.11g	6Mbps
		802.11n-HT20	MCS0
		802.11n-HT40	MCS0
	Band Edge	802.11b	1Mbps
		802.11g	6Mbps
		802.11n-HT20	MCS0
		802.11n-HT40	MCS0
	Spurious Emission	802.11b	1Mbps
		802.11g	6Mbps
		802.11n-HT20	MCS0
		802.11n-HT40	MCS0
	Peak Power Spectral Density	802.11b	1Mbps
		802.11g	6Mbps
		802.11n-HT20	MCS0
		802.11n-HT40	MCS0

Note 1: ☒ Mobile Device

☐ Portable Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow: ☐ Lie ☐ Side ☐ Stand

Note 2: Low, mid, and high channels were measured, only the worst channel of each modulation was presented in this report.

3.7. Output Power Setting

Mode	Centre Frequency (MHz)	Power Setting	Mode	Centre Frequency (MHz)	Power Setting
802.11b	2412	33	802.11g	2412	27
	2417	10		2417	14
	2442	9		2442	13
	2462	8		2457	13
	2467	8		2462	21
	2472	8		2467	21
				2472	70

Mode	Centre Frequency (MHz)	Power Setting	Mode	Centre Frequency (MHz)	Power Setting
802.11n-HT20	2412	26	802.11n-HT40	2422	15
	2417	13		2427	4
	2442	13		2442	3
	2457	13		2447	5
	2462	22		2452	19
	2467	22		2457	19
	2472	71		2462	50

3.8. Tested Supporting System List

3.8.1. Support Peripheral Unit

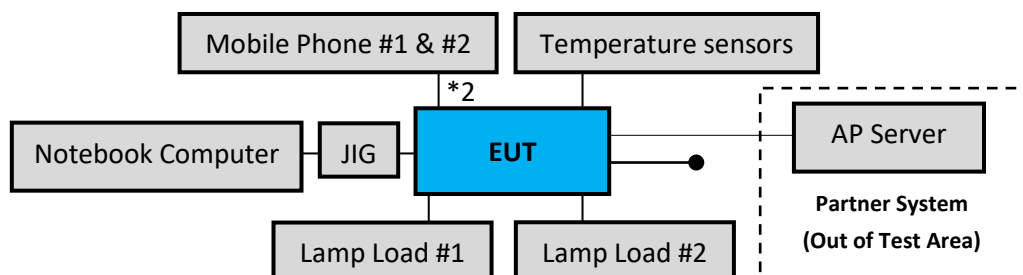
No.	Product	Brand	Model No.	Serial No.	Approval
1.	Mobile Phone #1	ASUS	ASUS_Z01FD	N/A	N/A
2.	Mobile Phone #2	ASUS	ASUS_I003D	N/A	N/A
3.	Notebook Computer	hp	TPN-Q189	5CD8175992	Contains FCC ID: PD93168NG Contains IC: 1000M-3168NG
4.	Temperature sensors*4	N/A	N/A	N/A	N/A
5.	Lamp Load #1 (100W*6)	N/A	N/A	N/A	N/A
6.	Lamp Load #2 (200W*4)	N/A	N/A	N/A	N/A
7.	JIG	N/A	N/A	N/A	N/A
Partner System					
8.	AP Server	ASUS	RT-AX88U	N/A	FCC ID: MSQ-RTAXHP00 IC: 3568A-RTAXHP00

3.8.2. Cable Lists

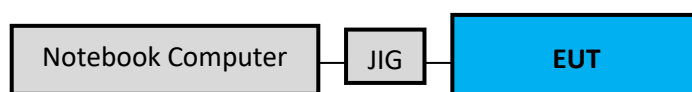
No.	Cable Description Of The Above Support Units
1.	USB Cable: Shielded, Detachable, 1.0m
2.	USB Cable: Shielded, Detachable, 1.0m
3.	Adapter: hp, M/N PPP-012C-S, DC Cord: Shielded, Undetachable, 1.8m, Bonded a ferrite core AC Power Cord: Unshielded, Detachable, 1.0m
4.	Contact cable: Unshielded, Detachable, 2.0m
5.	AC Power Cord: Unshielded, Detachable, 1.0m
6.	AC Power Cord*4: Unshielded, Detachable, 2.0m
7.	USB Cable: Shielded, Detachable, 1.5m
8.	AC Power Cord: Unshielded, Detachable, 1.8m LAN Cable: Unshielded, Detachable, 3.0m
9.	LAN Cable: Unshielded, Detachable, 3.0m

3.9. Setup Configuration

3.9.1. EUT Configuration for Power Line & Radiated Emission



3.9.2. EUT Configuration for RF Conducted Test Items



3.10. Operating Condition of EUT

The JIG which is the interface be used to connect between EUT and notebook computer for enable EUT test mode under test program "EspRFtest Tool_v2.8_Mauanl.exe".

3.11. Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 491, Zhongfu Rd., Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2017 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is : TW1724 ISED CAB Identifier Number under APEC TEL MRA by NCC is TW1724 (1) No.7 Shielded Room (2) No.1 3m Semi Anechoic Chamber

3.12.Measurement Uncertainty

Test Items/Facilities			Frequency Range	Uncertainty
Conduction Test			9kHz-150kHz	±3.7dB
			150kHz-30MHz	±3.4dB
Radiation Test	☒	No.1 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.8dB
			200MHz-1000MHz, 3m, Horizontal	±4.1dB
			30MHz-200MHz, 3m, Vertical	±4.5dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
			1GHz-6GHz, 3m	±4.7dB
			6GHz-18GHz, 3m	±4.1dB
			18GHz-40GHz, 3m	±3.52dB
	☐	No.3 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
			200MHz-1000MHz, 3m, Horizontal	±4.2dB
			30MHz-200MHz, 3m, Vertical	±4.3dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
	☐	No.4 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.1dB
			200MHz-1000MHz, 3m, Horizontal	±4.5dB
			30MHz-200MHz, 3m, Vertical	±4.4dB
			200MHz-1000MHz, 3m, Vertical	±4.8dB
			1GHz-6GHz, 3m	±5.0dB
			6GHz-18GHz, 3m	±4.7dB
	☐	No.5 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.2dB
			200MHz-1000MHz, 3m, Horizontal	±4.3dB
			30MHz-200MHz, 3m, Vertical	±4.3dB
			200MHz-1000MHz, 3m, Vertical	±4.7dB
			1GHz-6GHz, 3m	±4.8dB
			6GHz-18GHz, 3m	±4.5dB

Remark : Uncertainty = $k_{uc}(y)$

Test Item	Uncertainty
Bandwidth	± 0.05kHz
Maximum peak output power	± 0.33dB
Power spectral density	± 0.13dB
Conducted Emission Limitations	± 0.13dB

4. MEASUREMENT EQUIPMENT LIST

4.1. Conducted Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESCI	101276	2022.02.21	1 Year
2.	A.M.N.	R&S	ESH2-Z5	100366	2021.06.29	1 Year
3.	Pulse Limiter	R&S	ESH3-Z2	101495	2021.12.23	1 Year
4.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.7 S/R	2021.04.15	1 Year
5.	Coaxial Cable	Thermax/CDT	RG-142	CE-07	2021.05.17	1 Year
6.	Test Software	Audix	e3	V6.120619c	N.C.R.	N.C.R.

4.2. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2021.09.09	1 Year
2.	Spectrum Analyzer	Keysight	N9010B-544	MY55460198	2021.04.14	1 Year
3.	Test Receiver	R&S	ESCS30	100338	2021.06.17	1 Year
4.	Amplifier	HP	8447D	2944A06305	2022.01.15	1 Year
5.	Microwave Amplifier	Keysight	83051A	MY53010042	2021.07.30	1 Year
6.	Microwave Preamplifier	HP	8449B	3008A01284	2021.05.19	1 Year
7.	Bilog Antenna	TESEQ	CBL6112D	33821	2021.07.16	1 Year
8.	Horn Antenna	EMCO	3115	9112-3775	2021.05.12	1 Year
9.	Horn Antenna	COM-POWER	AH-840	101092	2022.01.06	1 Year
10.	2.4GHz Notch Filter	K&L Microwave	7NSL10-2441.5/E130.5-O/O	2	2021.07.24	1 Year
11.	3GHz Notch Filter	Microwave	H3G018G1	484796	2021.07.24	1 Year
12.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2022.01.20	1 Year
13.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 106	RE-14	2022.01.20	1 Year
14.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	RE-30	2021.08.25	1 Year
15	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2021.04.15	1 Year
16	Test Software	Audix	e3	V6.120619c	N.C.R.	N.C.R.

4.3. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9030B	MY61330403	2021.12.21	1 Year
2.	Power Meter	Anritsu	ML2495A	1145008	2021.06.30	1 Year
3.	Power Sensor	Anritsu	MA2411B	1126096	2021.06.30	1 Year
4.	Digital Thermo-Hygro Meter	iMax	HTC-1	RF-03	2021.04.15	1 Year

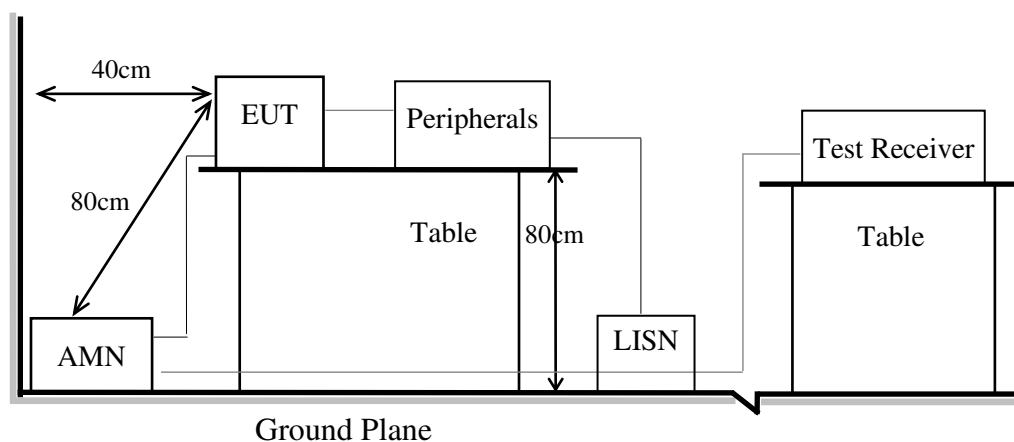
5. CONDUCTED EMISSION

5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of EUT

Indicated as section 3.9

5.1.2. Shielded Room Setup Diagram



5.2. Conducted Emission Limit

Frequency	Conducted Limit	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

Remark1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

2.: The lower limit applies to the band edges.

5.3. Test Procedure

- 5.3.1. To set up the EUT as indicated in ANSI C63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.
- 5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
- 5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
- 5.3.4. Checking frequency range from 150kHz to 30 MHz and record the emission which does not have 20 dB below limit.

5.4. Test Results

Please refer to Appendix A.

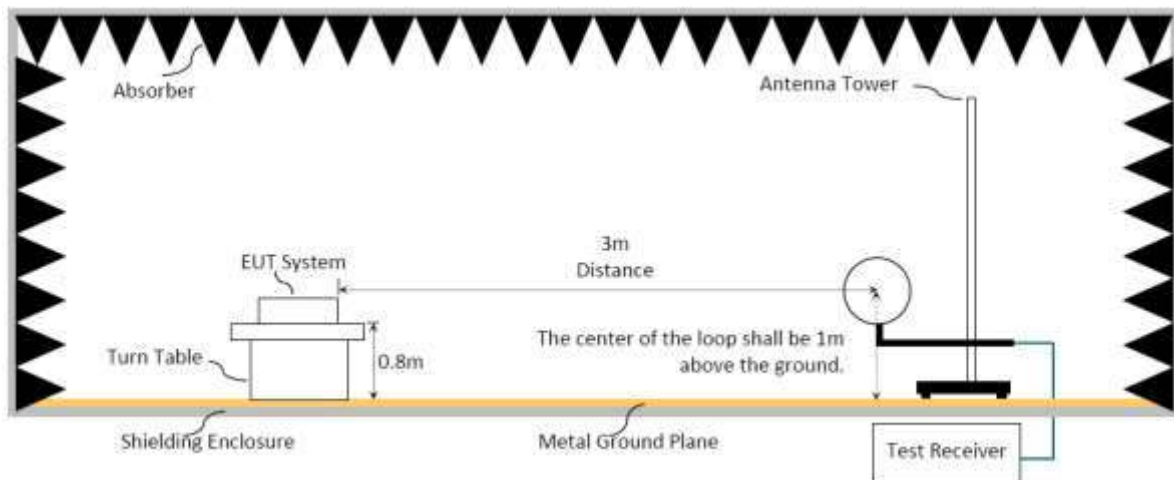
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

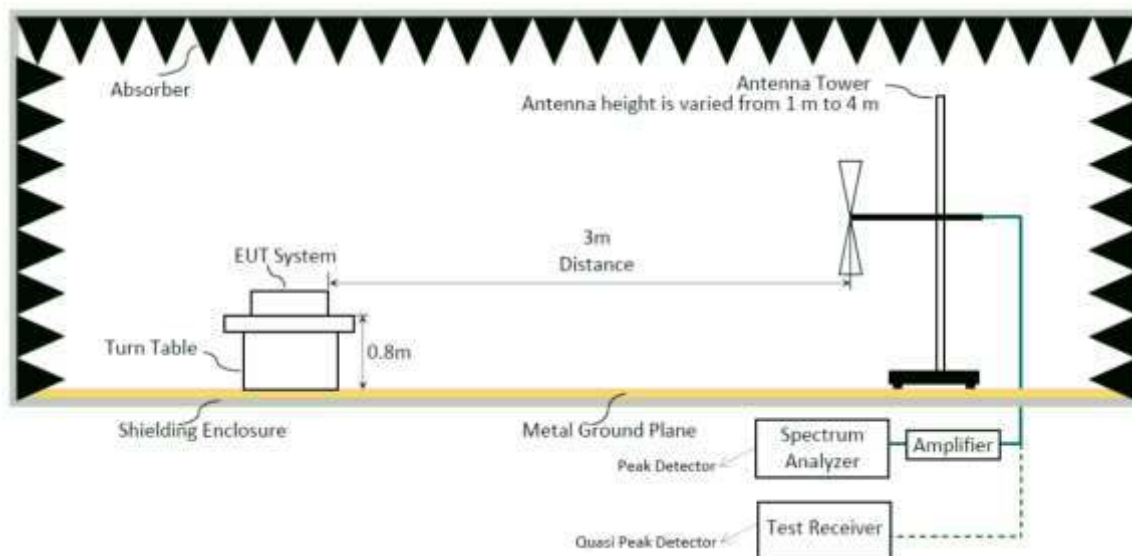
6.1.1. Block Diagram of EUT

Indicated as section 3.9

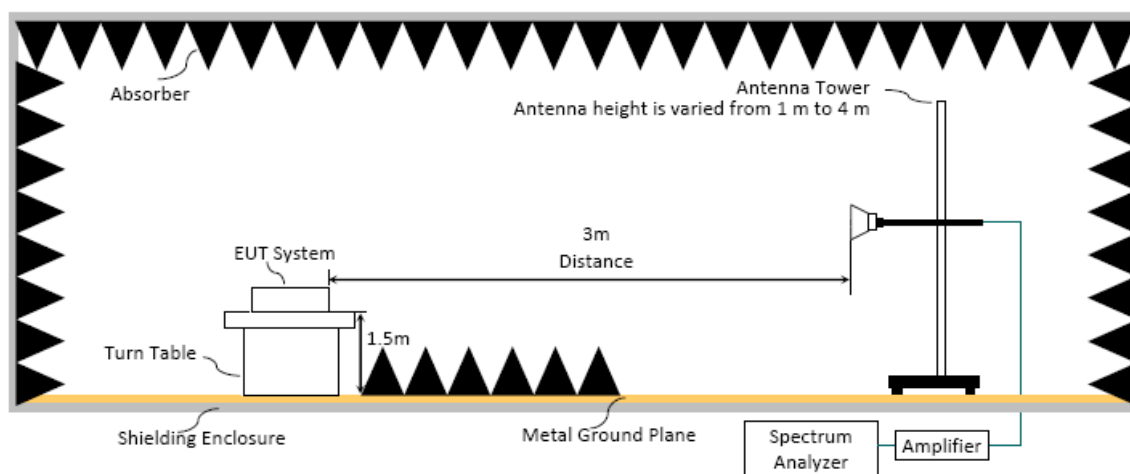
6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30-1000MHz



6.1.4. Setup Diagram for above 1GHz



6.2. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance(m)	Limits	
		dBμV/m	μV/m
0.009 - 0.490	300	67.6-20 log f(kHz)	2400/f kHz
0.490 - 1.705	30	87.6-20 log f(kHz)	24000/f kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dBμV/m (Peak) 54.0 dBμV/m (Average)	

Remark : (1) $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$

- (2) The tighter limit applies to the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) Fundamental and emission fall within operation band are exempted from this section.
- (5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

6.3. Test Procedure

Frequency Range 9kHz~30MHz:

The EUT setup on the turntable which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

- (1) RBW = 9kHz with peak and average detector.
- (2) Detector: average and peak (9kHz-490kHz)
Q.P. (490kHz-30MHz)

Frequency Range 30MHz ~ 25GHz:

The EUT setup on the turn table which has 80cm (for 30-1000MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

Frequency below 1GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1) RBW = 120KHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Note 1: When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.

Note 2: When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

Frequency above 1GHz to 10th harmonic (up to 25 GHz):

Peak Detector:

- (1) RBW = 1MHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Note: When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.

Average Detector:**■ Option 1:**

(1) RBW = 1MHz

(2) VBW $\geq$ 1/ T.

Modulation Type	T (ms)	1/ T (kHz)	VBW Setting(Hz)
802.11b	1.000	1.000	10Hz
802.11g	1.000	1.000	10Hz
802.11n-HT20	1.000	1.000	10Hz
802.11n-HT40	1.000	1.000	10Hz

N/A: 1/ T is not implemented when duty cycle presented in section 3.6 is $\geq$ 98%.

(1) Detector = Peak.

(2) Sweep time = auto.

(3) Trace mode = max hold.

(4) Allow sweeps to continue until the trace stabilizes.

□ Option 2:

Average Emission Level = Peak Emission Level + D.C.C.F.

6.4. Measurement Result Explanation

■ Peak Emission Level = Antenna Factor + Cable Loss + Meter Reading (including Preamp factor if test used)

■ Average Emission Level = Antenna Factor + Cable Loss + Meter Reading (including Preamp factor if test used)

□ Average Emission Level = Peak Emission Level + DCCF

Duty Cycle Correction Factor (DCCF) = $20\log(TX_{on}/TX_{on+off})$ presented in section 3.6

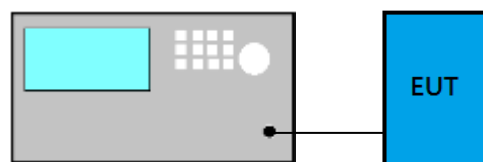
□ ERP = Peak Emission Level - 95.2dB - 2.14dB

6.5. Test Results

Please refer to Appendix A.

7. DTS/OCCUPIED BANDWIDTH

7.1. Block Diagram of Test Setup



7.2. Specification Limits

The minimum bandwidth shall be at least 500kHz.

7.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

For DTS Bandwidth

- (1) Set RBW = 100 kHz.
- (2) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- (3) Detector = Peak.
- (4) Trace mode = max hold.
- (5) Sweep = auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x to -6dB power to record the final bandwidth..

For 99% Occupied Bandwidth

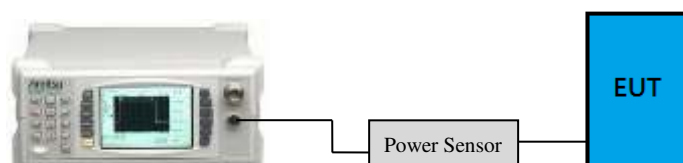
- (1) Set Span range 1.5~5 times the OBW
- (2) Set RBW close to 1% to 5% of OBW.
- (3) Set $\text{VBW} \geq 3 \times \text{RBW}$.
- (4) Detector = Peak.
- (5) Trace mode = Max hold
- (6) Sweep = Auto couple.
- (7) Allow the trace to stabilize.

7.4. Test Results

Please refer to Appendix A

8. MAXIMUM PEAK OUTPUT POWER

8.1. Block Diagram of Test Setup



8.2. Specification Limits

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm), and E.I.R.P.: 4Watt (36dBm)

8.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

☒ **PKPM1 Peak power meter method:**

EUT is connected to power sensor and record the maximum output power.

☐ **Maximum peak conducted output power method:**

- (1) Set the RBW $\geq$ DTS bandwidth
- (2) Set VBW $\geq 3 \times$ RBW
- (3) Set span $\geq 3 \times$ RBW.
- (4) Sweep time = auto couple
- (5) Detector = peak.
- (6) Trace mode = max hold.
- (7) Allow trace to fully stabilize.
- (8) Use peak marker function to determine the peak amplitude level.

☒ **Method AVGPM (Measurement using an RF average power meter):**

EUT is connected to power sensor and record the maximum average output power and duty cycle factor is added when duty cycle presented in section 3.7 is $< 98\%$.

☐ **Method AVGSA-2 (Spectrum channel power)**

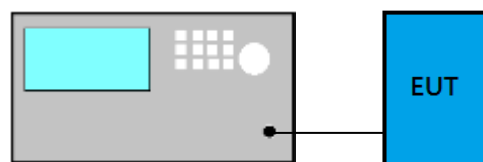
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 -5% of OBW
- (3) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.
- (8) Duty cycle factor is added when duty cycle presented in section 3.7 is $< 98\%$.

8.4. Test Results

Please refer to Appendix A

9. EMISSION LIMITATIONS

9.1. Block Diagram of Test Setup



9.2. Specification Limits

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, that the required attenuation shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a)/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 (See Section 15.205(c)).

9.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

■ Reference Level

- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: 100 kHz.
- (4) Set the VBW $\geq 3 \times$ RBW.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize to find the max PSD as reference level.

■ Emission Level Measurement

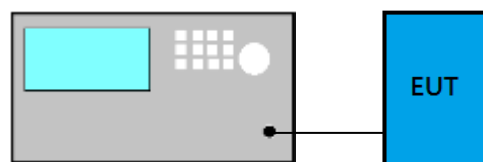
- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: 100 kHz.
- (4) Set the VBW $\geq 3 \times$ RBW.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize to find the max level.

9.4. Test Results

Please refer to Appendix A

10. POWER SPECTRAL DENSITY

10.1. Block Diagram of Test Setup



10.2. Specification Limits

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

10.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

■ Method PKPSD (peak PSD)

- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
- (4) Set the VBW $\geq 3 \times \text{RBW}$.
- (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.
- (10) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

□ Method AVGPSD-2

- (1) Using peak PSD procedure step 1 to step 4.
- (2) Detector = RMS detector
- (3) Sweep time = auto couple
- (4) Trace mode = trace averaging over a minimum of 100 traces
- (5) Use the peak marker function to determine the maximum amplitude level.
- (6) Duty cycle factor is added when duty cycle presented in section 3.7 < 98%.
- (7) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

10.4. Test Results

Please refer to Appendix A



11.DEVIATION TO TEST SPECIFICATIONS

【NONE】



*Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan*

*Tel: +886 2 26099301
Fax: +886 2 26099303*

APPENDIX A

TEST DATA AND PLOTS

(Model: PR-R13PI)

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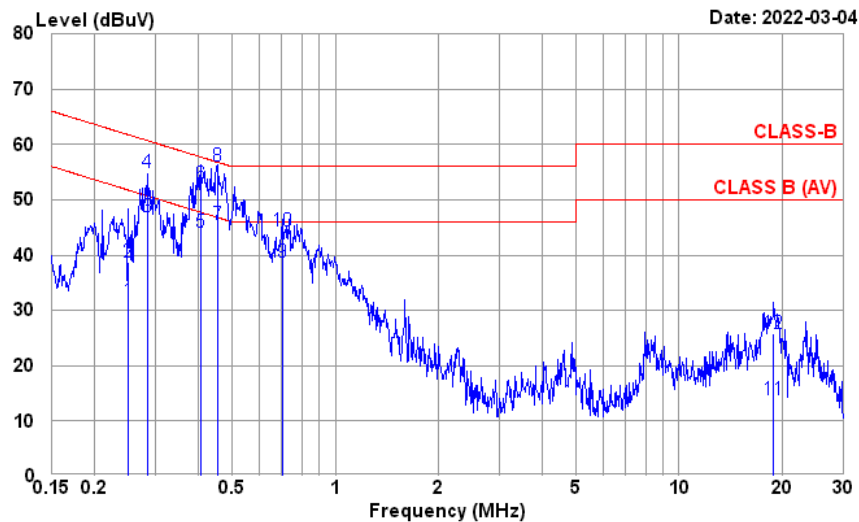
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New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

A.1 CONDUCTED EMISSION

Test Date	2022/03/04	Temp./Hum.	26°C/61%
Test Voltage	AC 120V/60Hz	Tested By	Nick Du

Data: 2 File: D:\test data\REPORT\2022\1C1M2201XXX\1C1M2201270-RF\1C1M2201270-C-D-RF.EMI



Site No. : No.7 Shielded Room Data No. : 2
Instrument 1 : Receiver ESCI(276)
Instrument 2 : ESH2-Z5 (366)(A) | CE-07 | ESH3-Z2 (495)
Limit : CLASS-B Phase : LINE
Environment : 26°C / 61% Engineer : Nick_Du
EUT Model : PR-R13PI Test Rating : 120Vac/60Hz
Test Mode : Operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.249	0.12	0.03	9.85	21.70	31.70	51.78	20.08	Average
2	0.249	0.12	0.03	9.85	28.74	38.74	61.78	23.04	QP
3	0.285	0.13	0.03	9.85	36.88	46.89	50.68	3.79	Average
4	0.285	0.13	0.03	9.85	44.80	54.81	60.68	5.87	QP
5	0.406	0.13	0.03	9.85	34.07	44.08	47.73	3.65	Average
6	0.406	0.13	0.03	9.85	42.75	52.76	57.73	4.97	QP
7	0.454	0.13	0.03	9.86	35.41	45.43	46.80	1.37	Average
8	0.454	0.13	0.03	9.86	46.01	56.03	56.80	0.77	QP
9	0.701	0.15	0.04	9.86	28.70	38.75	46.00	7.25	Average
10	0.701	0.15	0.04	9.86	34.22	44.27	56.00	11.73	QP
11	18.820	0.57	0.20	9.93	3.26	13.96	50.00	36.04	Average
12	18.820	0.57	0.20	9.93	15.05	25.75	60.00	34.25	QP

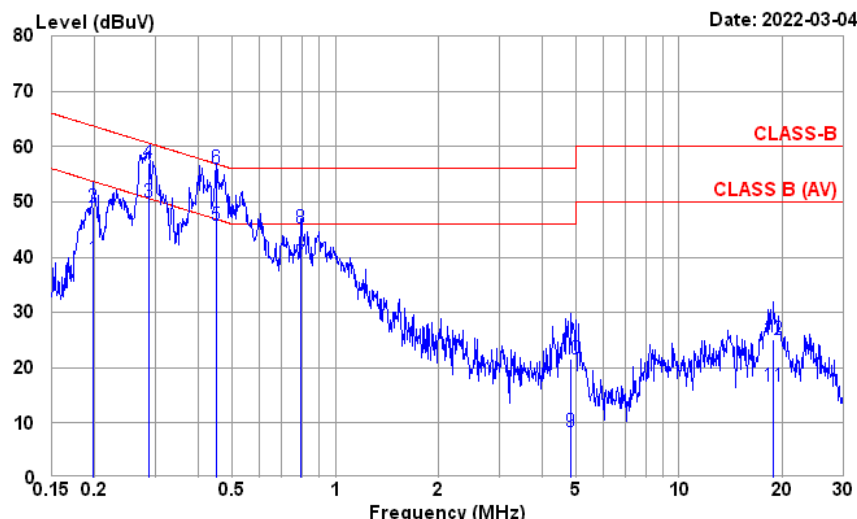
Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Test Date	2022/03/04	Temp./Hum.	26°C/61%
Test Voltage	AC 120V/60Hz	Tested By	Nick Du

Data: 1 File: D:\test data\REPORT\2022\CI1M2201XXX\CI1M2201270-RF\CI1M2201270-C-D-RF.EMI



Site No.	: No.7 Shielded Room	Data No.	: 1
Instrument 1	: Receiver ESCI(276)		
Instrument 2	: ESH2-Z5 (366)(A) CE-07 ESH3-Z2 (495)		
Limit	: CLASS-B	Phase	: NEUTRAL
Environment	: 26°C / 61%	Engineer	: Nick Du
EUT Model	: PR-R13PI	Test Rating	: 120Vac/60Hz
Test Mode	: Operating		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.198	0.16	0.03	9.85	29.51	39.55	53.71	14.16	Average
2	0.198	0.16	0.03	9.85	39.00	49.04	63.71	14.67	QP
3	0.286	0.17	0.03	9.85	40.00	50.05	50.63	0.58	Average
4	0.286	0.17	0.03	9.85	46.96	57.01	60.63	3.62	QP
5	0.452	0.18	0.03	9.86	35.76	45.83	46.85	1.02	Average
6	0.452	0.18	0.03	9.86	45.99	56.06	56.85	0.79	QP
7	0.796	0.20	0.04	9.86	28.97	39.07	46.00	6.93	Average
8	0.796	0.20	0.04	9.86	35.22	45.32	56.00	10.68	QP
9	4.848	0.30	0.10	9.87	-1.73	8.54	46.00	37.46	Average
10	4.848	0.30	0.10	9.87	11.40	21.67	56.00	34.33	QP
11	18.820	0.73	0.20	9.93	5.91	16.77	50.00	33.23	Average
12	18.820	0.73	0.20	9.93	14.32	25.18	60.00	34.82	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

A.2 RADIATED EMISSION

Test Date	2022/03/02 ~ 03	Temp./Hum.	20 ~ 21°C/55 ~ 65%
Test Voltage	AC 120V/60Hz	Tested By	Martin Chen

A.2.1 Emissions within Restricted Frequency Bands

A.2.1.1 Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

A.2.1.2 Frequency Below 1GHz

Mode	802.11n-HT40	Frequency	TX 2427MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
59.100	12.37	1.98	26.42	49.13	37.06	40.00	2.94	Peak
114.390	17.61	2.79	26.19	46.66	40.87	43.50	2.63	Peak
199.750	15.10	3.70	25.79	48.83	41.84	43.50	1.66	Peak
407.330	21.54	6.00	26.47	43.15	44.22	46.00	1.78	Peak
527.610	23.48	6.86	27.22	37.93	41.05	46.00	4.95	Peak
990.300	27.05	9.24	26.69	28.89	38.49	54.00	15.51	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
35.820	21.22	1.55	26.48	42.27	38.56	40.00	1.44	Peak
45.520	16.09	1.74	26.47	47.32	38.68	40.00	1.32	Peak
95.960	15.85	2.56	26.30	50.00	42.11	43.50	1.39	Peak
407.330	21.54	6.00	26.47	38.61	39.68	46.00	6.32	Peak
551.860	23.75	6.94	27.29	36.05	39.45	46.00	6.55	Peak
986.420	27.02	9.22	26.69	28.56	38.11	54.00	15.89	Peak

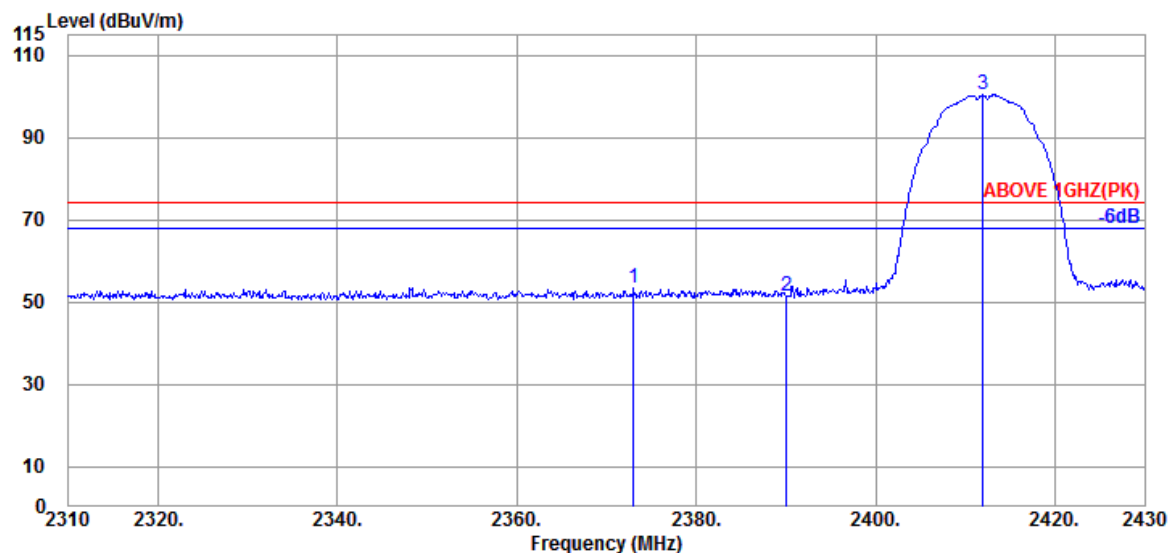
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No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

A.2.1.3 Frequency Above 1 GHz to 10th harmonics

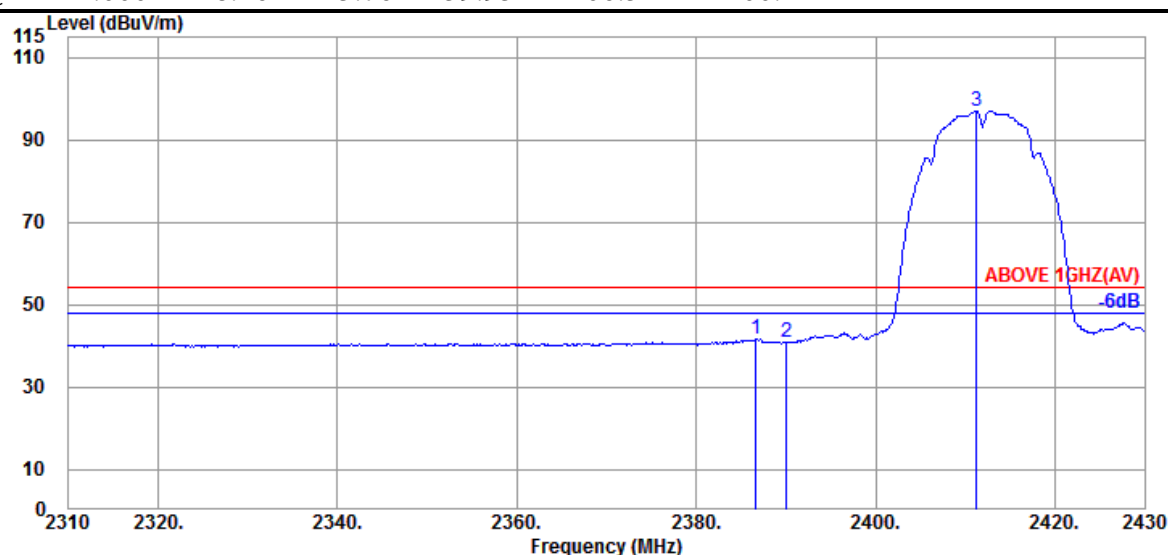
Band Edge:

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2373.000	28.20	5.70	39.96	59.48	53.42	74.00	20.58	Peak
2390.040	28.20	5.72	39.95	57.63	51.60	74.00	22.40	Peak
@ 2412.000	28.26	5.76	39.95	106.34	100.41	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2386.680	28.20	5.72	39.96	47.52	41.48	54.00	12.52	Average
2390.040	28.20	5.72	39.95	46.84	40.81	54.00	13.19	Average
@ 2411.280	28.26	5.76	39.95	103.05	97.12	---	---	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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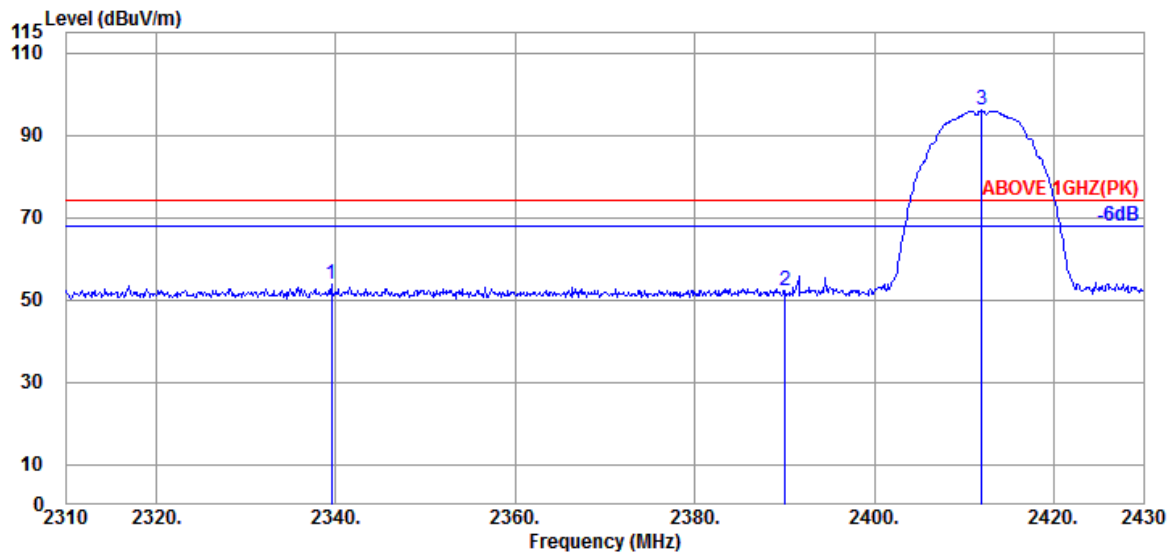
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New Taipei City 244, Taiwan

Tel: +886 2 26099301

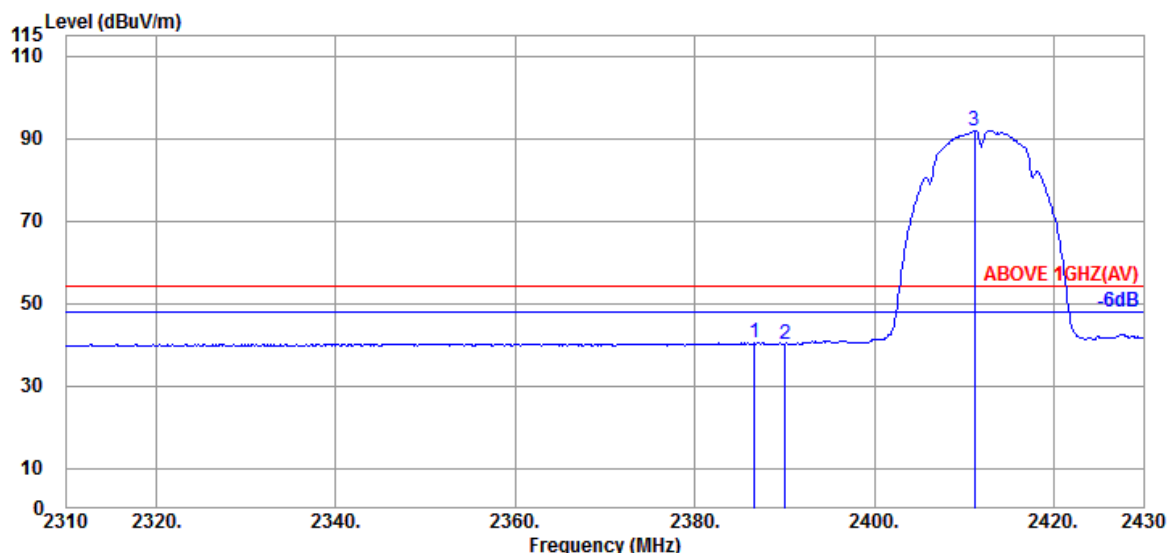
Fax: +886 2 26099303

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2339.520	28.12	5.64	39.96	59.94	53.74	74.00	20.26	Peak
2390.040	28.20	5.72	39.95	58.21	52.18	74.00	21.82	Peak
@ 2412.000	28.26	5.76	39.95	102.00	96.07	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2386.680	28.20	5.72	39.96	46.44	40.40	54.00	13.60	Average
2390.040	28.20	5.72	39.95	46.14	40.11	54.00	13.89	Average
@ 2411.60	28.23	5.75	39.95	97.97	92.00	---	---	Average

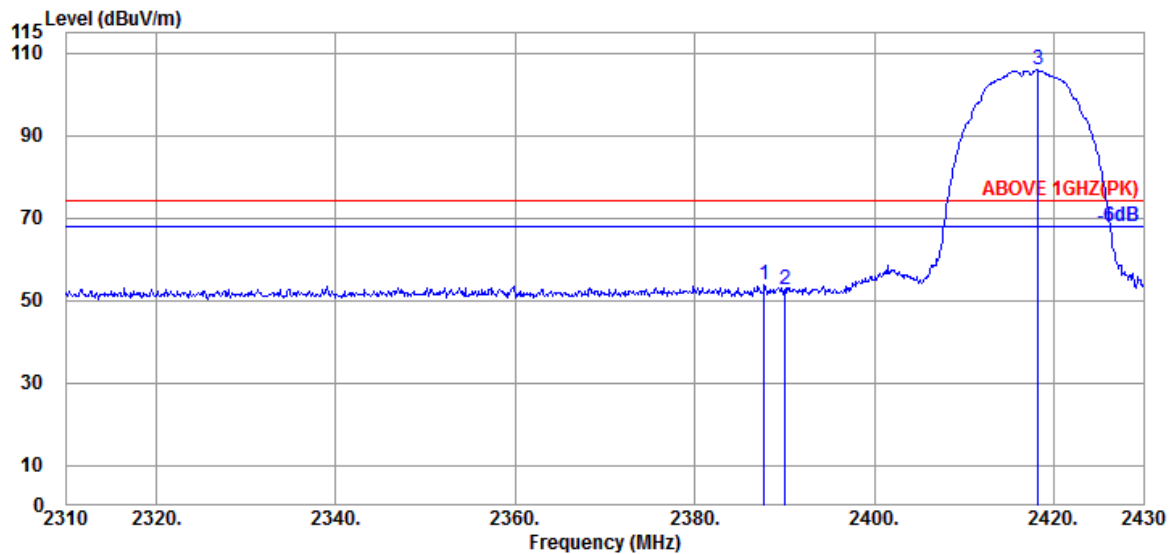
Remark: The “@” means fundamental frequency, it is ignored in this section.

File Number: CIM2201270

Report Number: EM-F220108

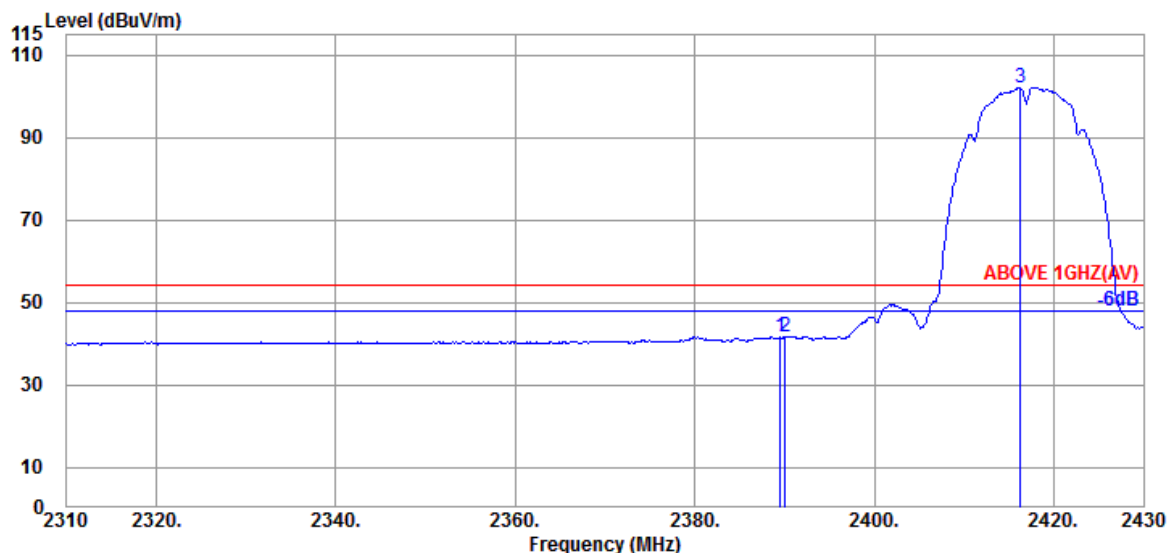
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Mode	802.11b	Frequency	TX 2417MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.760	28.20	5.72	39.95	59.76	53.73	74.00	20.27	Peak
2390.040	28.20	5.72	39.95	58.47	52.44	74.00	21.56	Peak
@ 2418.240	28.29	5.77	39.95	111.72	105.83	---	---	Peak

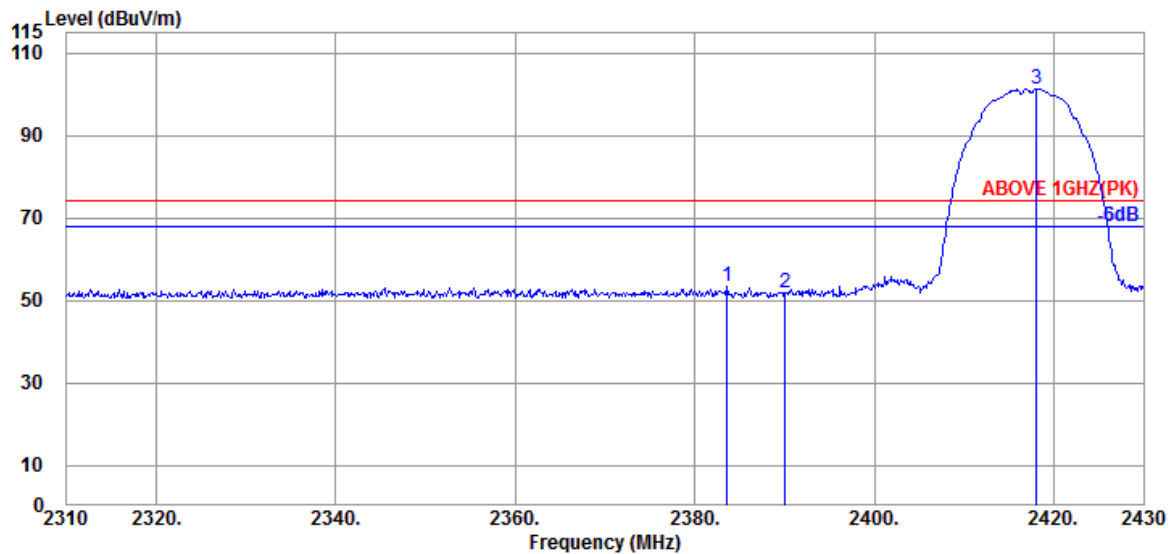


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.560	28.20	5.72	39.95	47.71	41.68	54.00	12.32	Average
2390.040	28.20	5.72	39.95	47.53	41.50	54.00	12.50	Average
@ 2416.320	28.26	5.76	39.95	108.15	102.22	---	---	Average

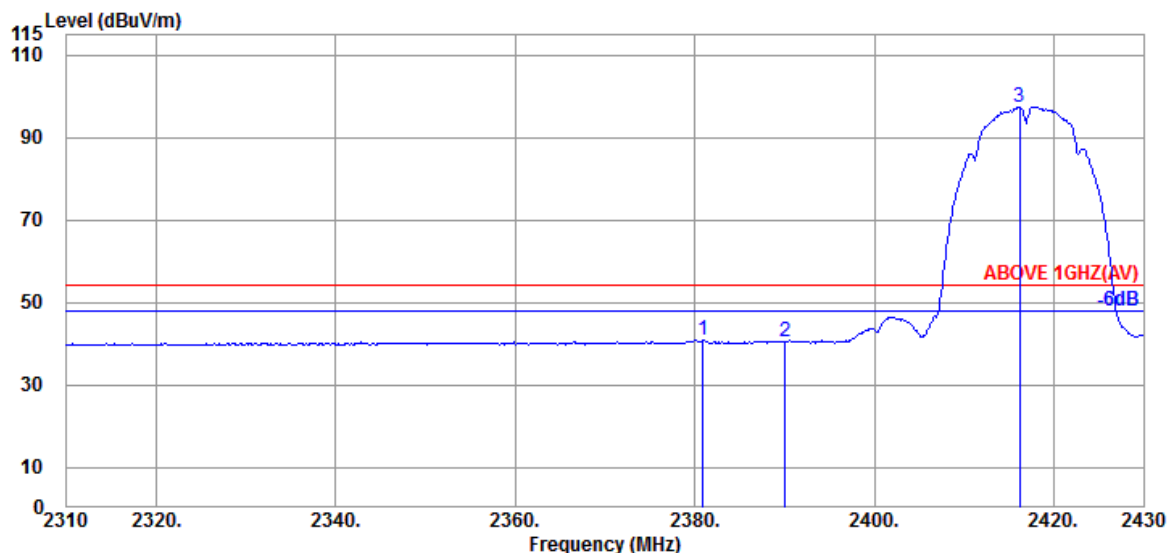
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11b	Frequency	TX 2417MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2383.560	28.20	5.72	39.96	59.60	53.56	74.00	20.44	Peak
2390.040	28.20	5.72	39.95	57.76	51.73	74.00	22.27	Peak
@ 2418.120	28.26	5.76	39.95	107.22	101.29	---	---	Peak



Antenna at Vertical Polarization

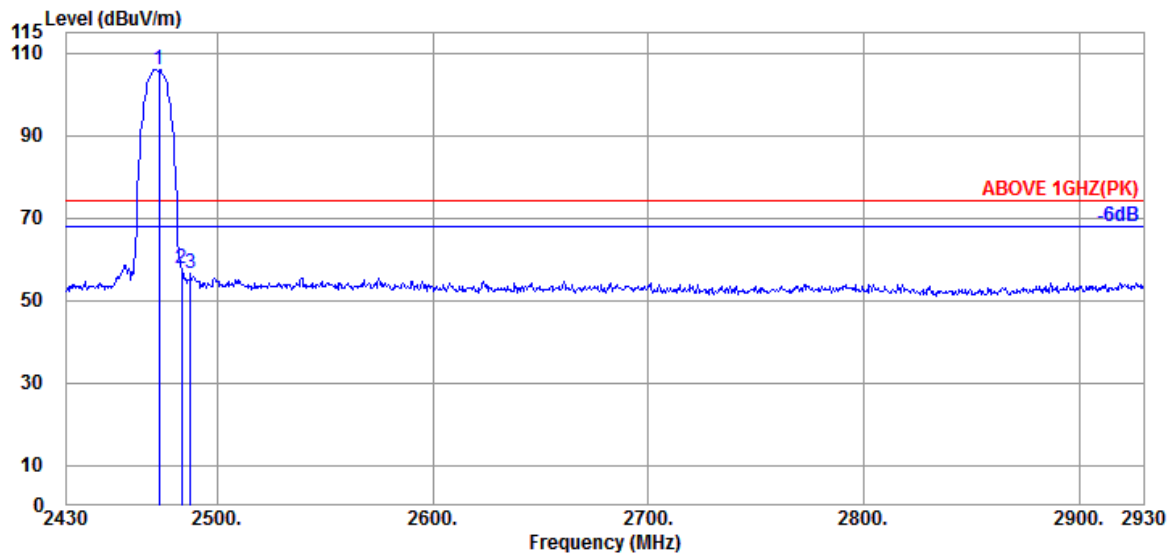
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2380.920	28.20	5.71	39.96	46.81	40.76	54.00	13.24	Average
2390.040	28.20	5.72	39.95	46.42	40.39	54.00	13.61	Average
@ 2416.200	28.26	5.76	39.95	103.40	97.47	---	---	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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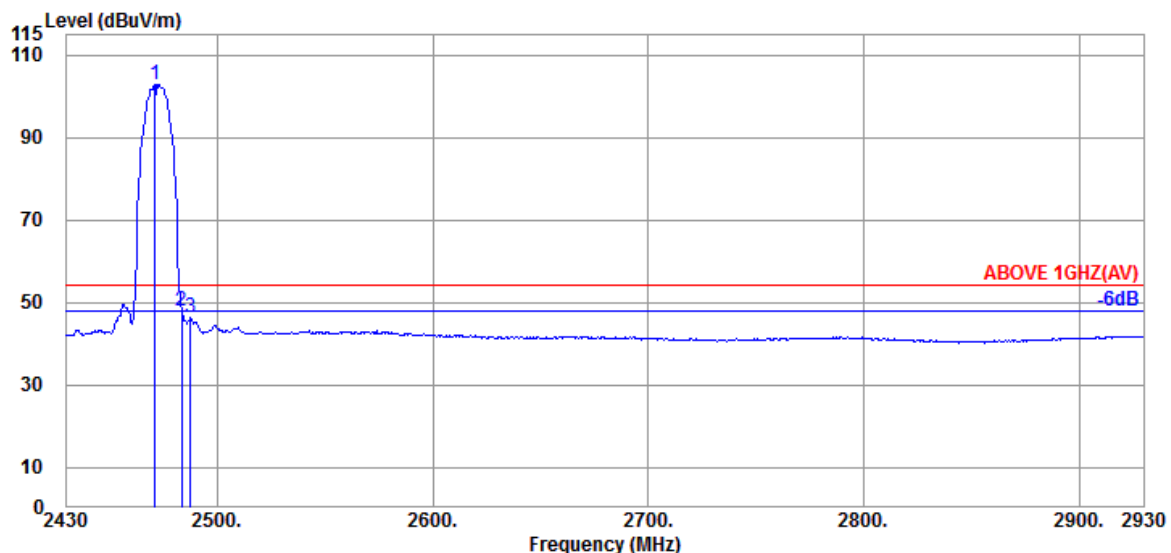
Tel: +886 2 26099301
Fax: +886 2 26099303

Mode	802.11b	Frequency	TX 2472MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2473.000	28.44	5.85	39.94	111.62	105.97	---	---	Peak
2483.500	28.47	5.87	39.94	63.26	57.66	74.00	16.34	Peak
2487.500	28.47	5.87	39.94	62.02	56.42	74.00	17.58	Peak



Antenna at Horizontal Polarization

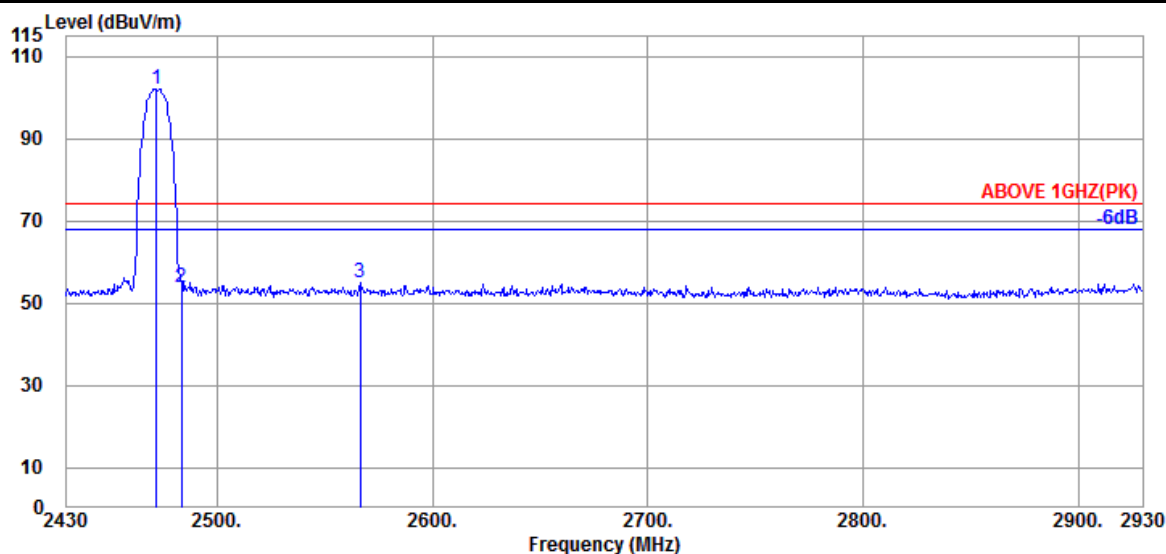
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@ 2471.000	28.44	5.85	39.94	108.46	102.81	---	---	Average
2483.500	28.47	5.87	39.94	53.34	47.74	54.00	6.26	Average
2487.500	28.47	5.87	39.94	51.88	46.28	54.00	7.72	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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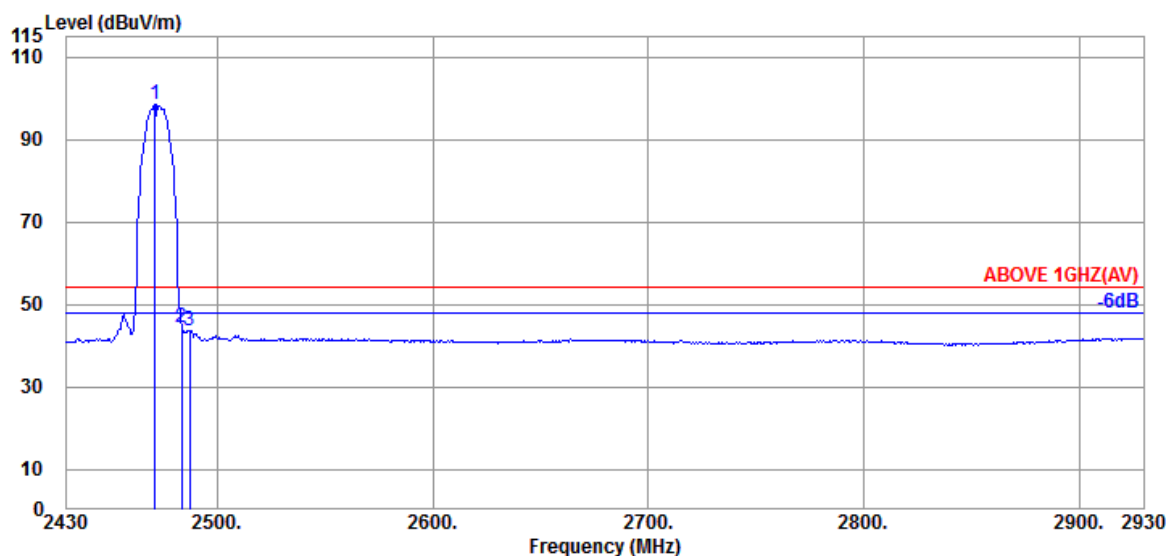
Tel: +886 2 26099301
Fax: +886 2 26099303

Mode	802.11b	Frequency	TX 2472MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2472.000	28.44	5.85	39.94	107.79	102.14	---	---	Peak
2483.500	28.47	5.87	39.94	59.18	53.58	74.00	20.42	Peak
2566.500	28.76	6.05	39.96	60.02	54.87	74.00	19.13	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2471.000	28.44	5.85	39.94	104.10	98.45	---	---	Average
2483.500	28.47	5.87	39.94	49.89	44.29	54.00	9.71	Average
2487.000	28.47	5.87	39.94	49.25	43.65	54.00	10.35	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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Report Number: EM-F220108

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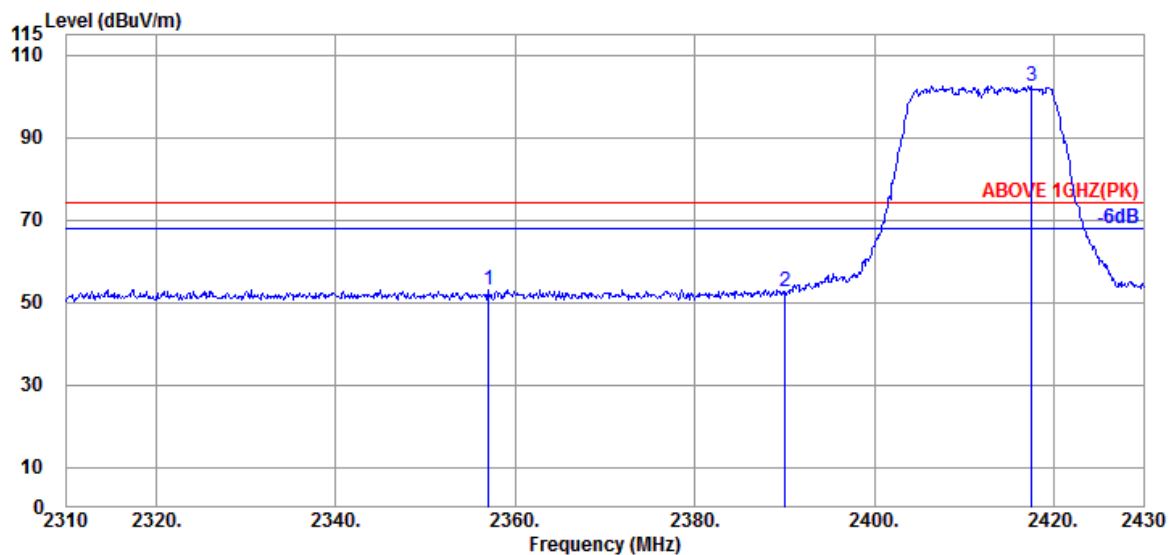
No. 491, Zhongfu Rd., Linkou Dist.,

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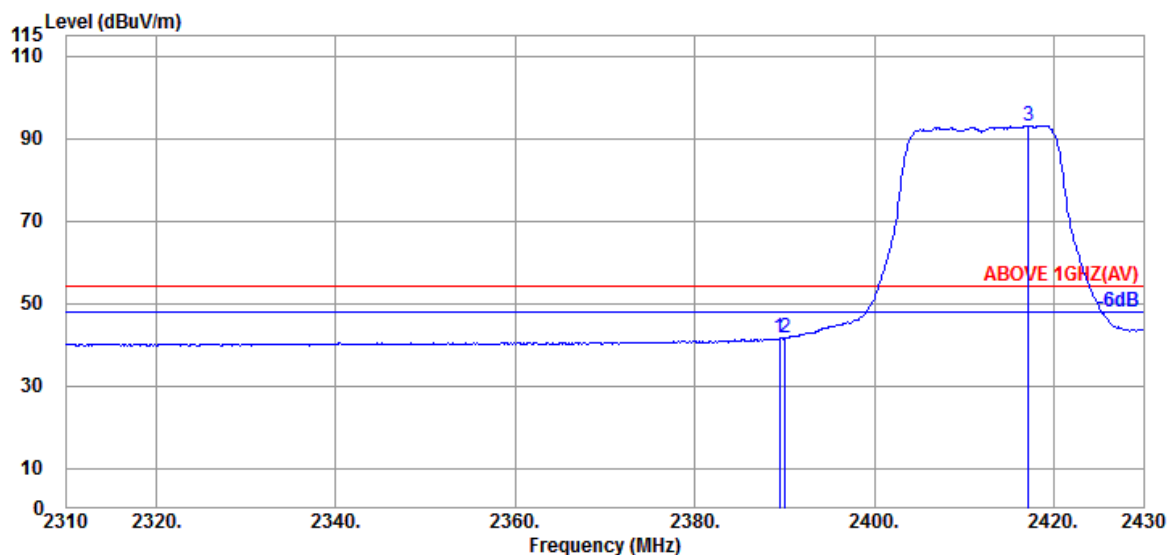
Fax: +886 2 26099303

Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2357.040	28.20	5.67	39.96	59.21	53.12	74.00	20.88	Peak
2390.040	28.20	5.72	39.95	58.79	52.76	74.00	21.24	Peak
@ 2417.520	28.26	5.76	39.95	108.40	102.47	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.440	28.20	5.72	39.95	47.60	41.57	54.00	12.43	Average
2390.040	28.20	5.72	39.95	47.73	41.70	54.00	12.30	Average
@ 2417.160	28.26	5.76	39.95	99.08	93.15	---	---	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.

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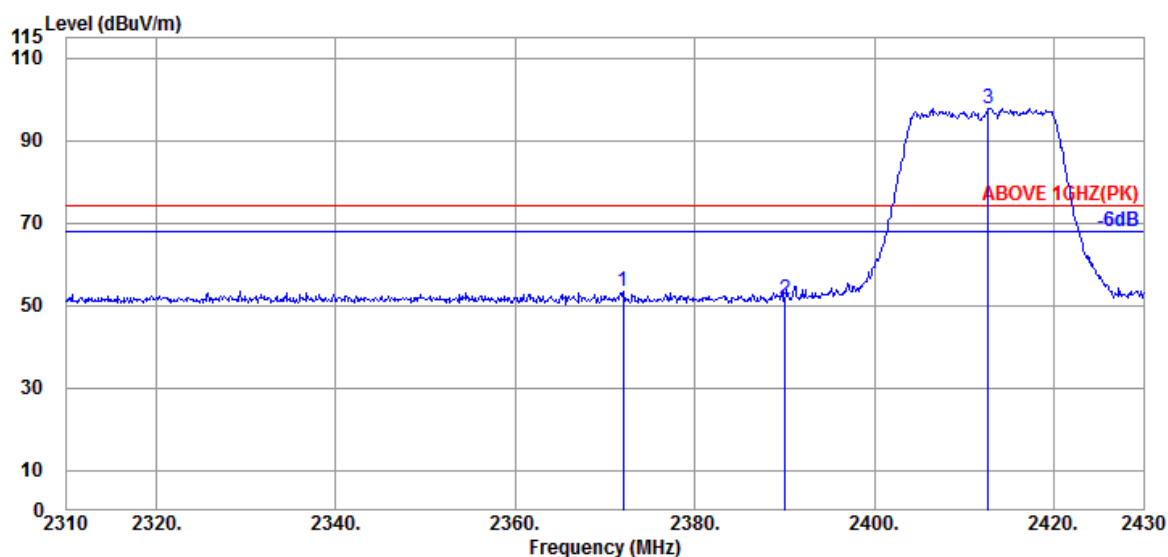
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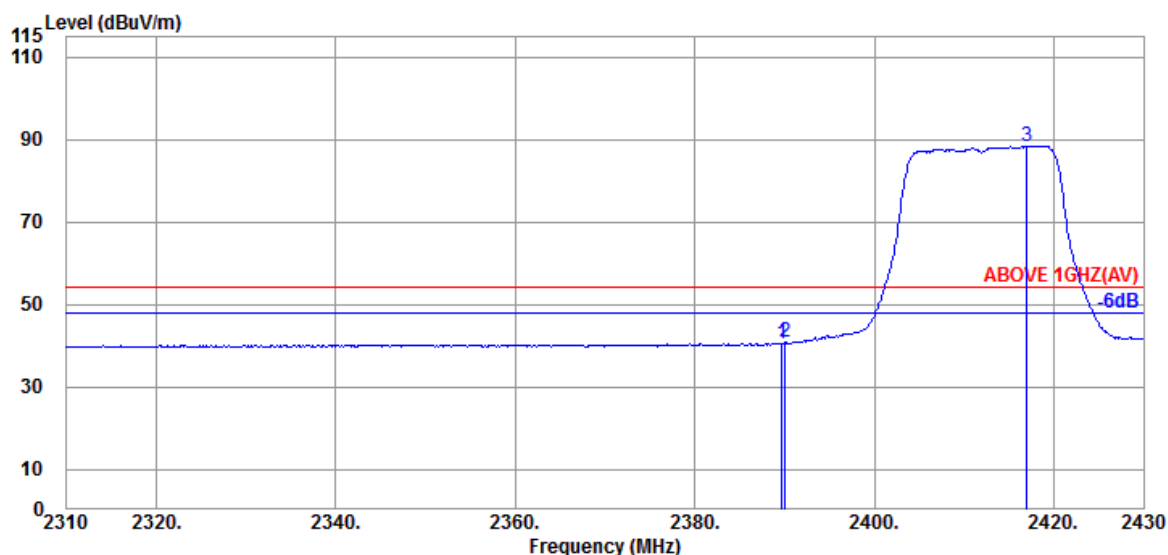
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Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2372.040	28.20	5.70	39.96	59.39	53.33	74.00	20.67	Peak
2390.040	28.20	5.72	39.95	57.52	51.49	74.00	22.51	Peak
@ 2412.720	28.26	5.76	39.95	103.83	97.90	---	---	Peak

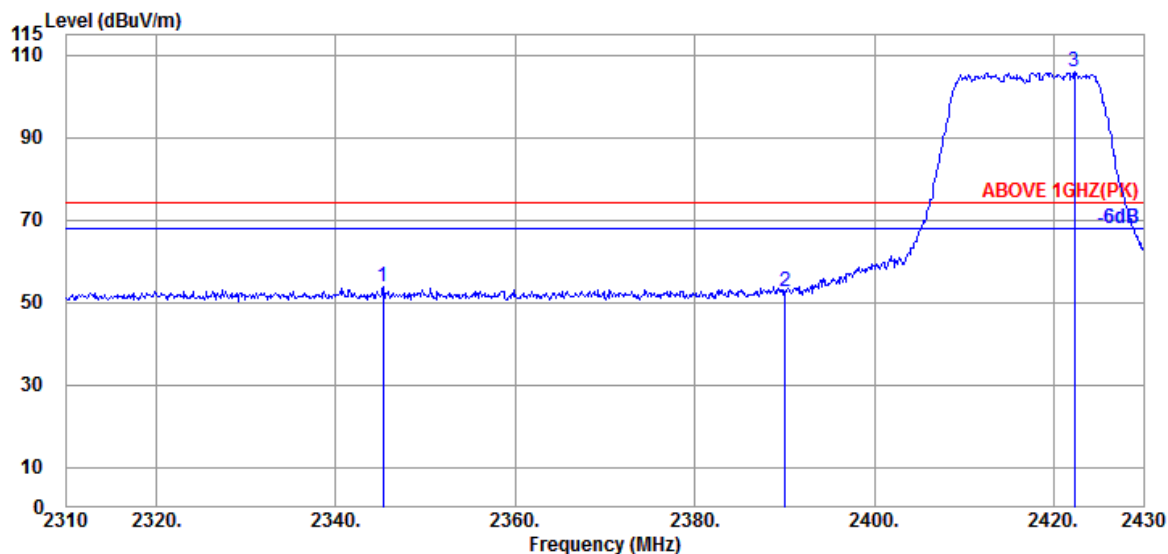


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	28.20	5.72	39.95	46.63	40.60	54.00	13.40	Average
2390.040	28.20	5.72	39.95	46.71	40.68	54.00	13.32	Average
@ 2417.040	28.26	5.76	39.95	94.42	88.49	---	---	Average

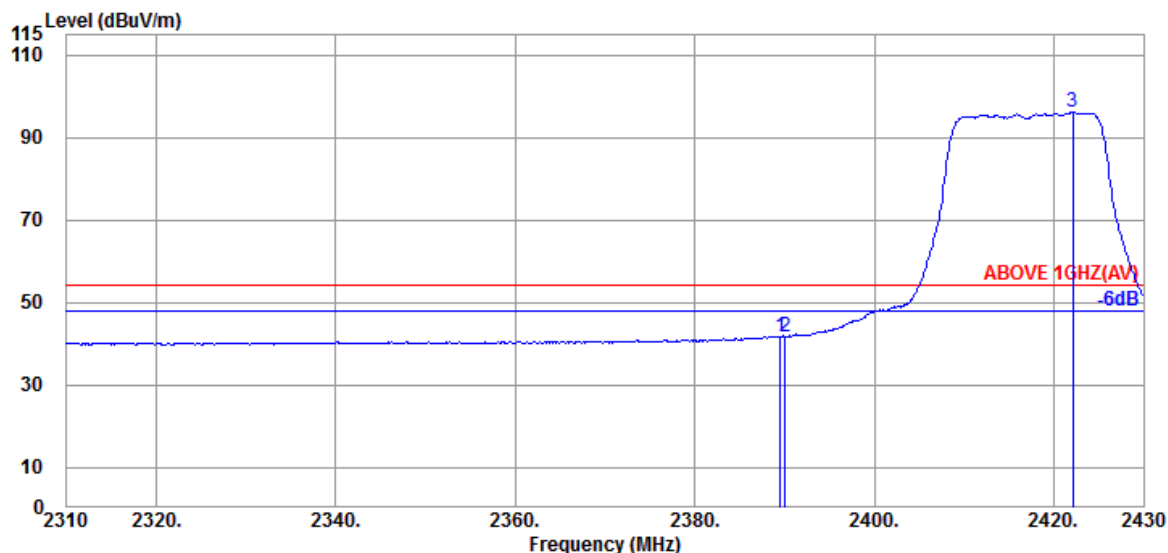
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2417MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2345.280	28.16	5.65	39.96	60.00	53.85	74.00	20.15	Peak
2390.040	28.20	5.72	39.95	58.56	52.53	74.00	21.47	Peak
@ 2422.320	28.29	5.77	39.95	111.69	105.80	---	---	Peak



Antenna at Horizontal Polarization

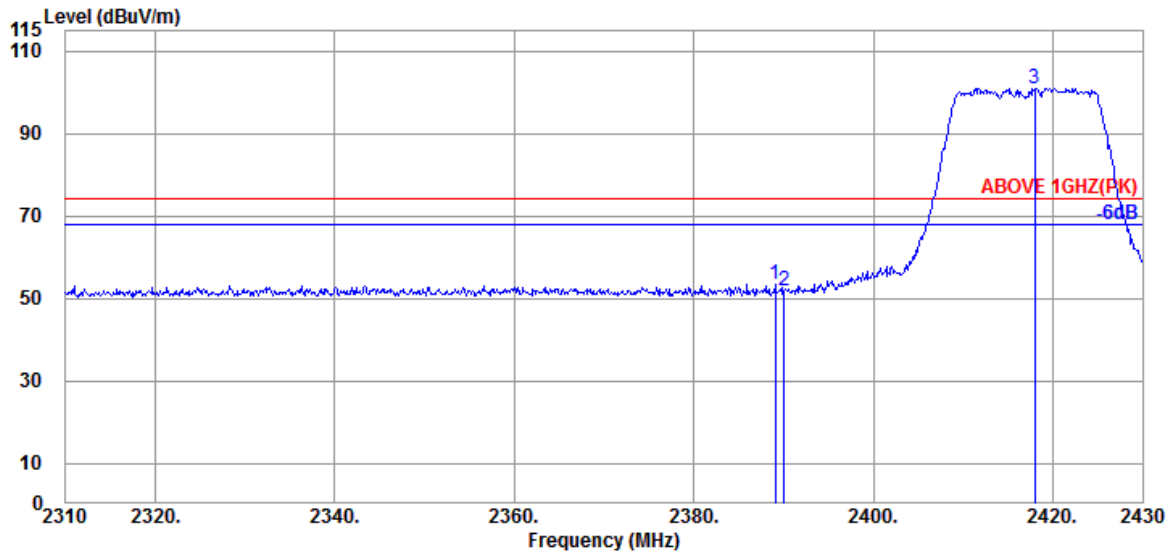
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2389.560	28.20	5.72	39.95	47.79	41.76	54.00	12.24	Average
2390.040	28.20	5.72	39.95	47.76	41.73	54.00	12.27	Average
@ 2422.080	28.29	5.77	39.95	101.97	96.08	---	---	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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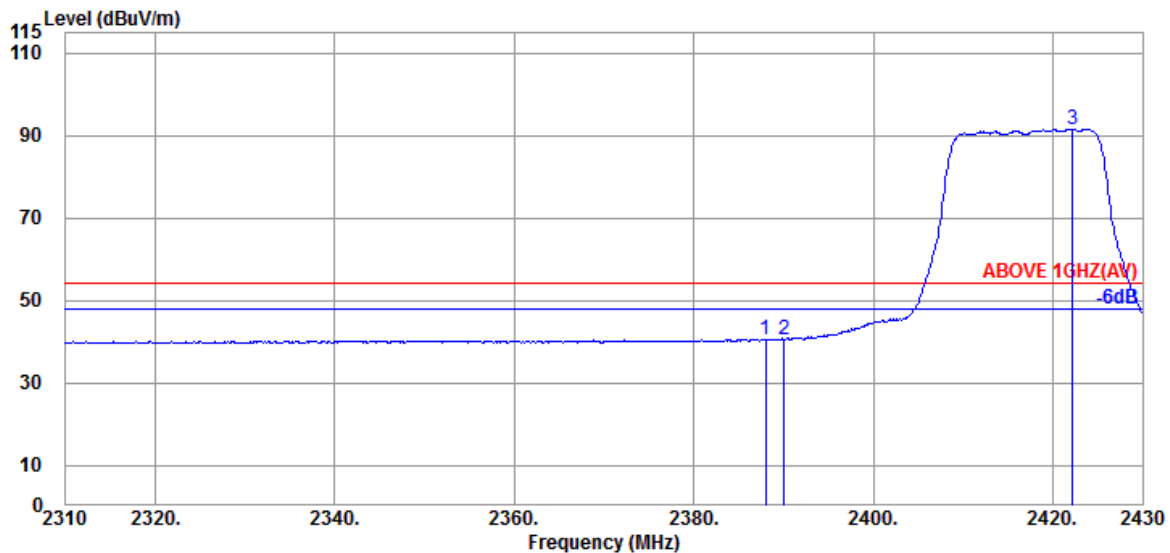
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Mode	802.11g	Frequency	TX 2417MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.080	28.20	5.72	39.95	59.58	53.55	74.00	20.45	Peak
2390.040	28.20	5.72	39.95	57.96	51.93	74.00	22.07	Peak
@ 2418.000	28.26	5.76	39.95	106.99	101.06	---	---	Peak

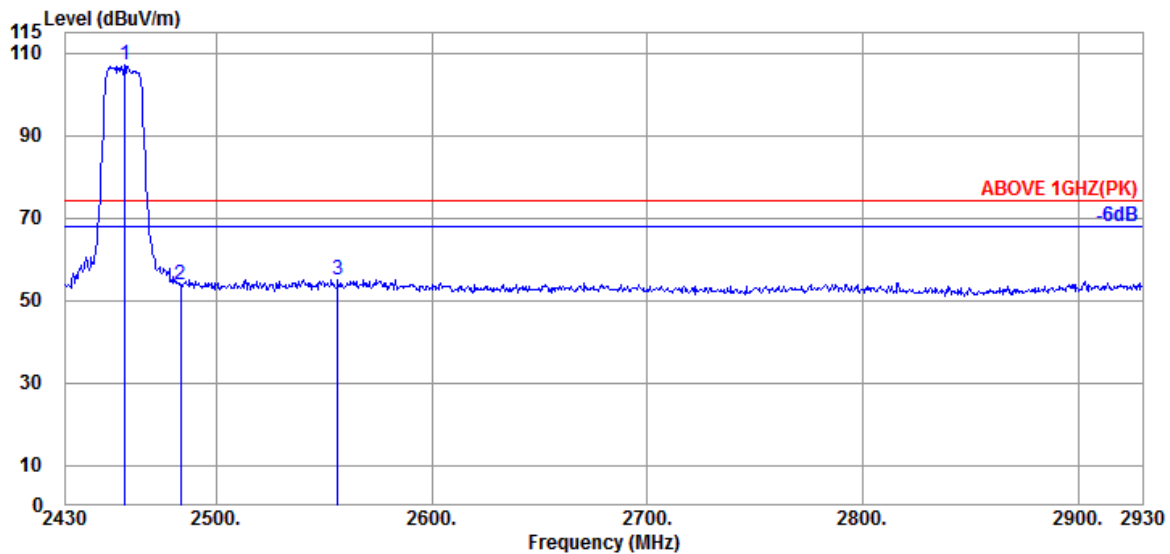


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.000	28.20	5.72	39.95	46.64	40.61	54.00	13.39	Average
2390.040	28.20	5.72	39.95	46.53	40.50	54.00	13.50	Average
@ 2422.200	28.29	5.77	39.95	97.54	91.65	---	---	Average

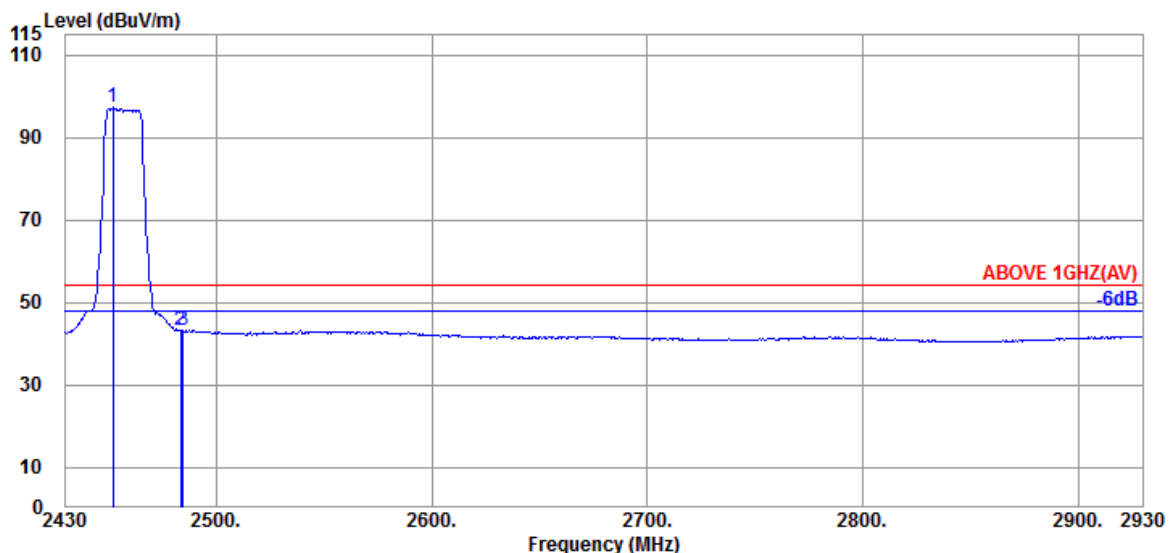
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2457.500	28.41	5.83	39.95	113.00	107.29	---	---	Peak
2483.500	28.47	5.87	39.94	59.43	53.83	74.00	20.17	Peak
2556.500	28.73	6.03	39.96	60.29	55.09	74.00	18.91	Peak



Antenna at Horizontal Polarization

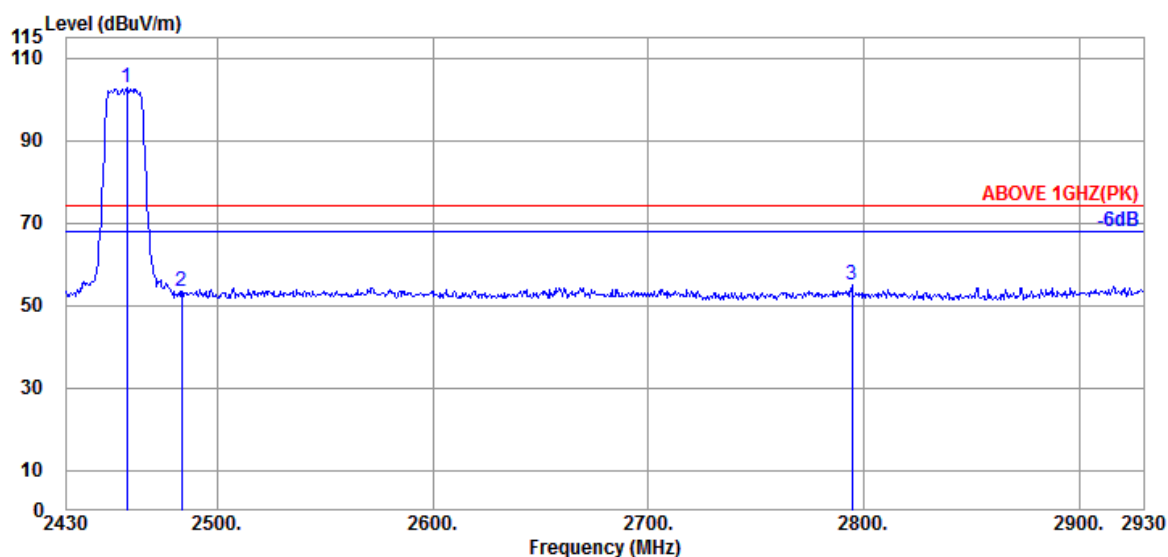
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@ 2452.000	28.40	5.81	39.95	102.93	97.19	---	---	Average
2483.500	28.47	5.87	39.94	48.59	42.99	54.00	11.01	Average
2484.500	28.47	5.87	39.94	48.78	43.18	54.00	10.82	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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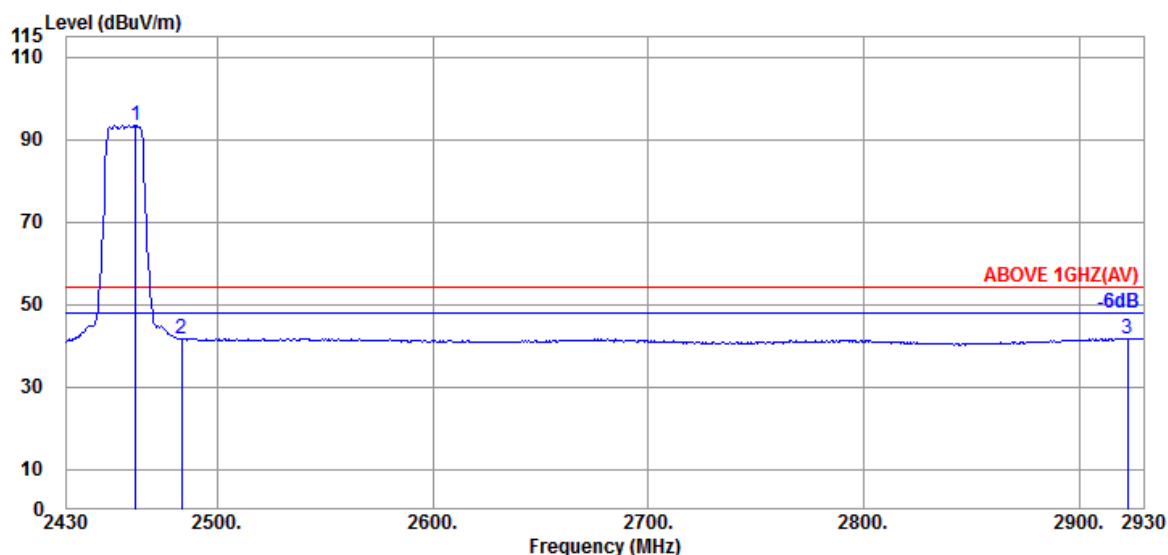
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Mode	802.11g	Frequency	TX 2457MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2458.000	28.41	5.83	39.95	108.41	102.70	---	---	Peak
2483.500	28.47	5.87	39.94	58.86	53.26	74.00	20.74	Peak
2794.500	28.90	6.58	40.03	59.38	54.83	74.00	19.17	Peak

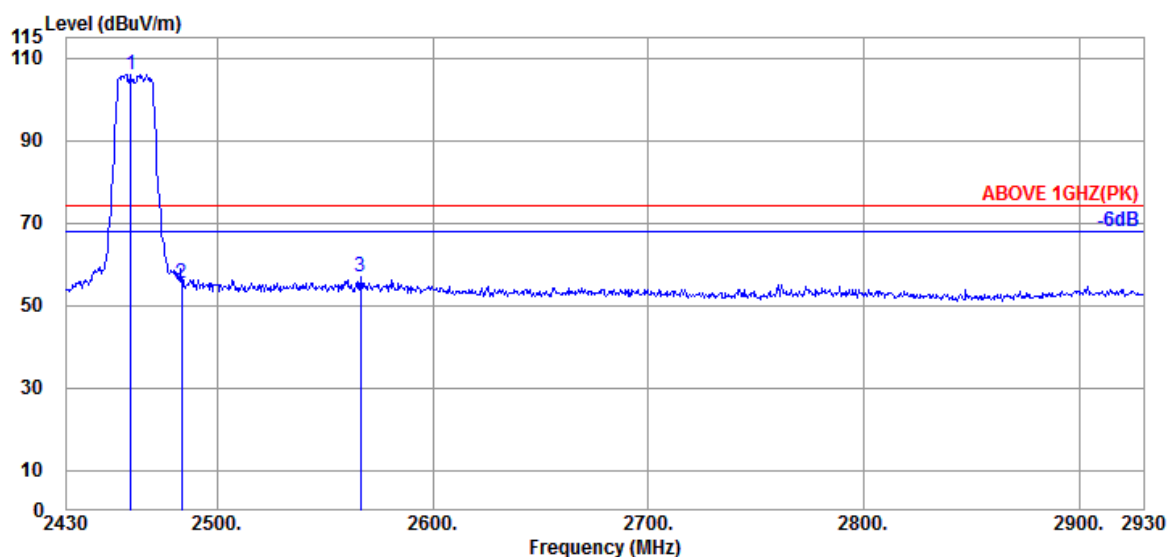


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2462.000	28.43	5.84	39.95	99.12	93.44	---	---	Average
2483.500	28.47	5.87	39.94	47.16	41.56	54.00	12.44	Average
2922.500	29.85	6.84	40.06	45.14	41.77	54.00	12.23	Average

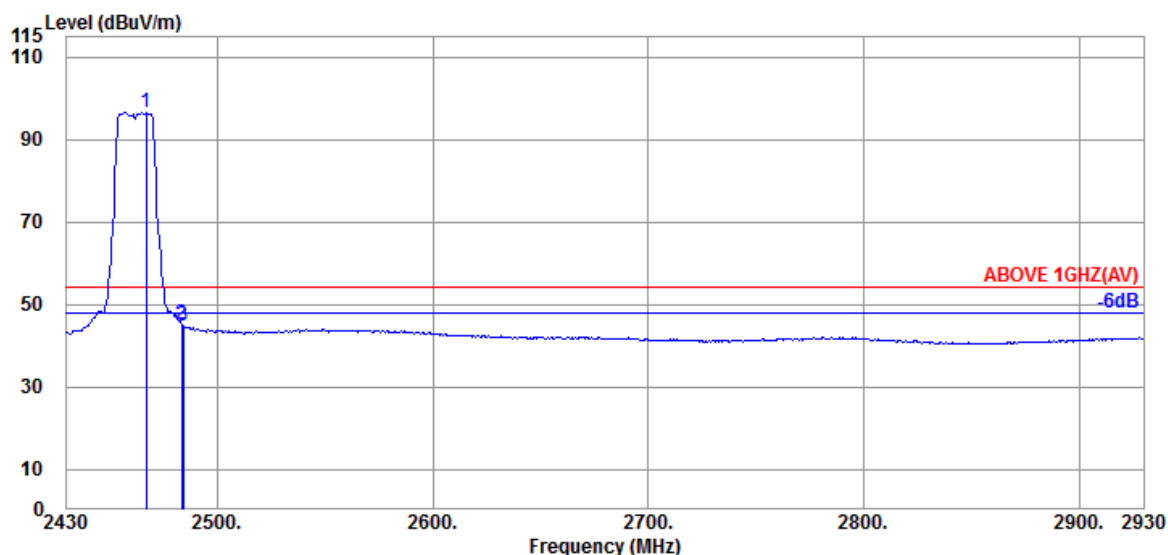
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2460.000	28.41	5.83	39.95	111.77	106.06	---	---	Peak
2483.500	28.47	5.87	39.94	61.14	55.54	74.00	18.46	Peak
2566.500	28.76	6.05	39.96	62.00	56.85	74.00	17.15	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2467.000	28.43	5.84	39.94	102.19	96.52	---	---	Average
2483.500	28.47	5.87	39.94	50.87	45.27	54.00	8.73	Average
2484.000	28.47	5.87	39.94	50.47	44.87	54.00	9.13	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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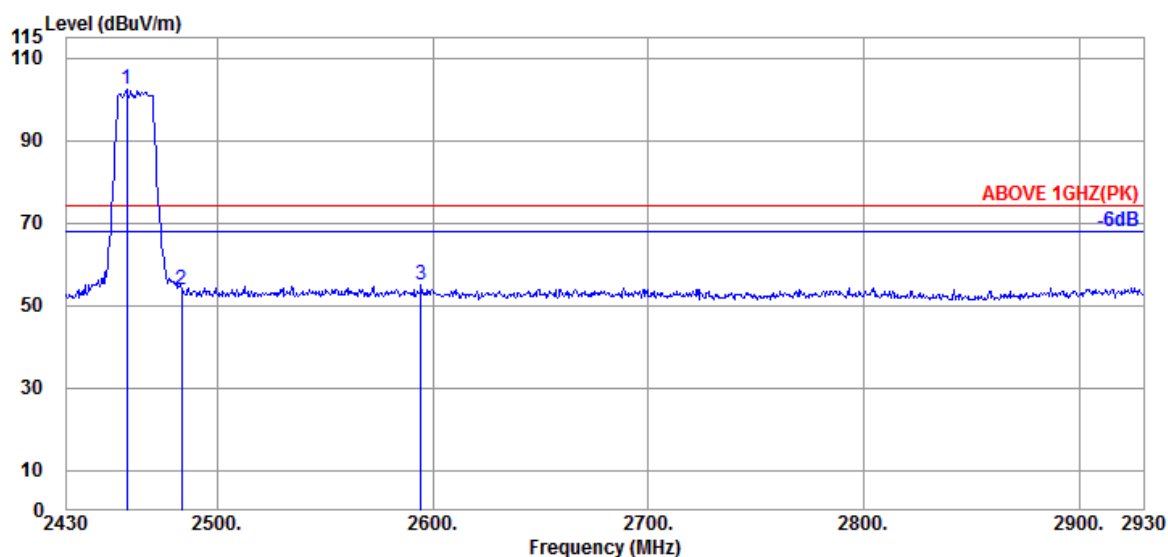
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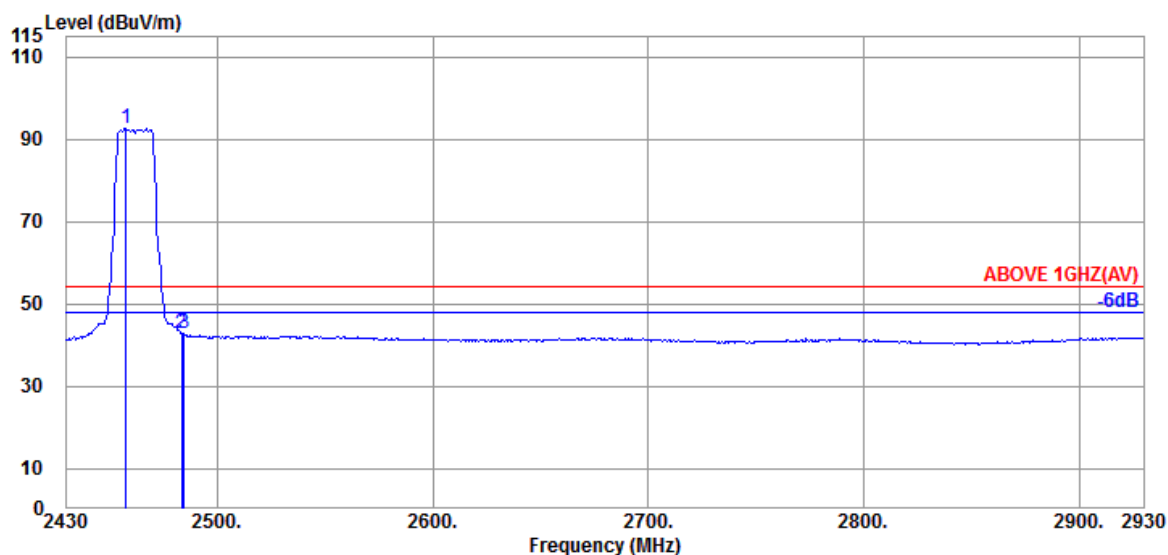
Fax: +886 2 26099303

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2458.000	28.41	5.83	39.95	108.07	102.36	---	---	Peak
2483.500	28.47	5.87	39.94	59.39	53.79	74.00	20.21	Peak
2594.500	28.87	6.12	39.97	59.81	54.83	74.00	19.17	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2457.500	28.41	5.83	39.95	98.23	92.52	---	---	Average
2483.500	28.47	5.87	39.94	48.39	42.79	54.00	11.21	Average
2484.500	28.47	5.87	39.94	48.38	42.78	54.00	11.22	Average

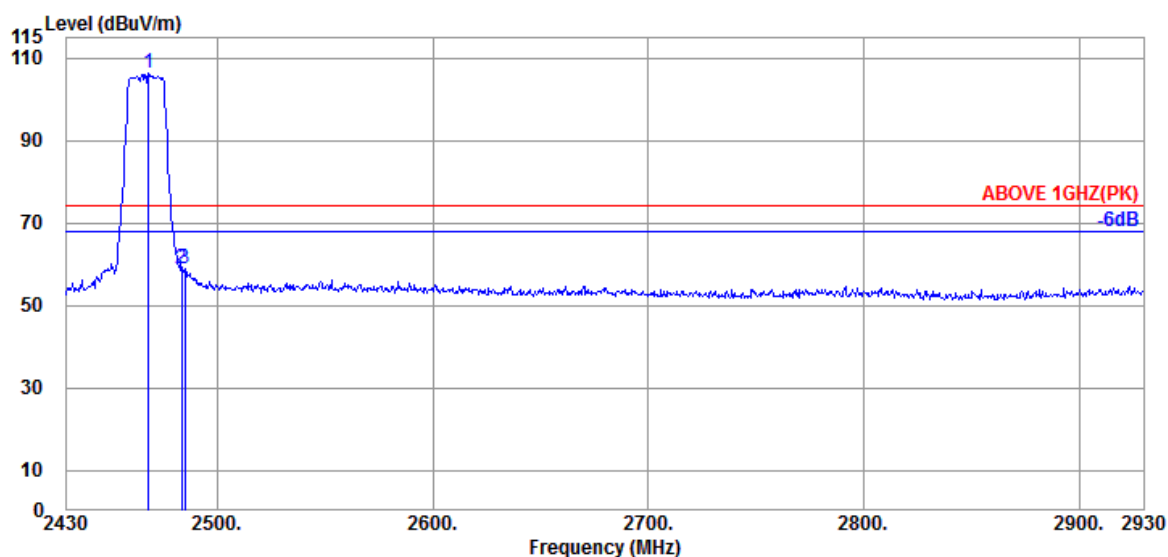
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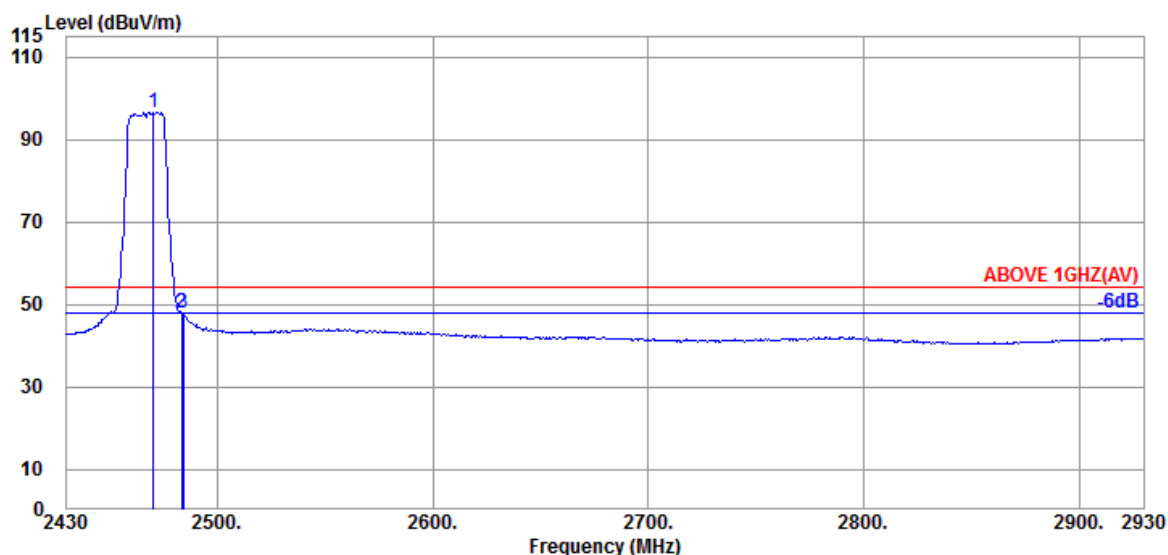
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Mode	802.11g	Frequency	TX 2467MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2468.000	28.44	5.85	39.94	112.12	106.47	---	---	Peak
2483.500	28.47	5.87	39.94	64.37	58.77	74.00	15.23	Peak
2485.000	28.47	5.87	39.94	64.44	58.84	74.00	15.16	Peak



Antenna at Horizontal Polarization

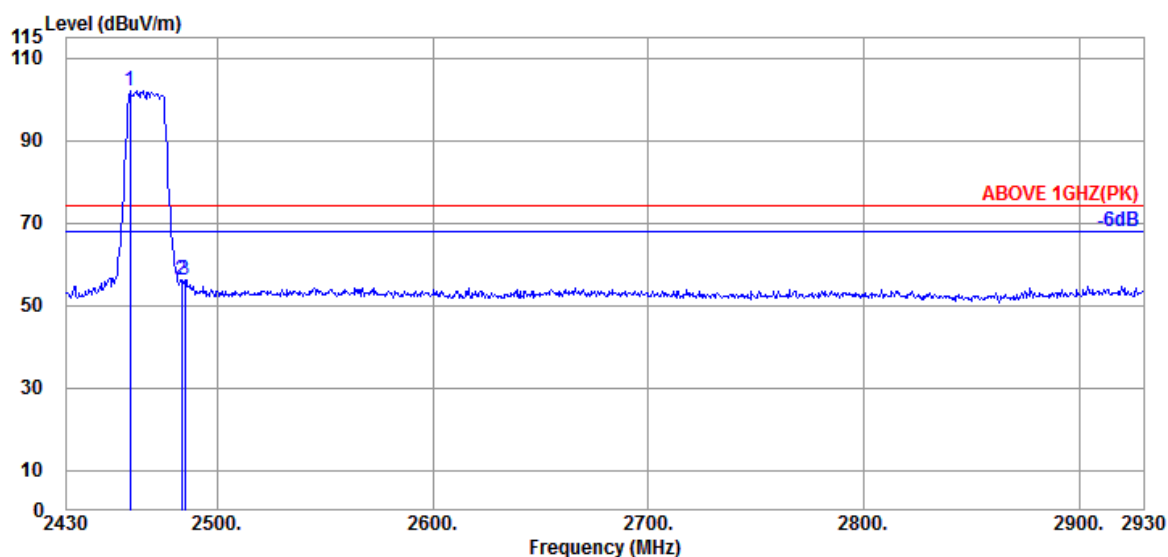
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2470.500	28.44	5.85	39.94	102.17	96.52	---	---	Average
2483.500	28.47	5.87	39.94	53.65	48.05	54.00	5.95	Average
2484.000	28.47	5.87	39.94	53.49	47.89	54.00	6.11	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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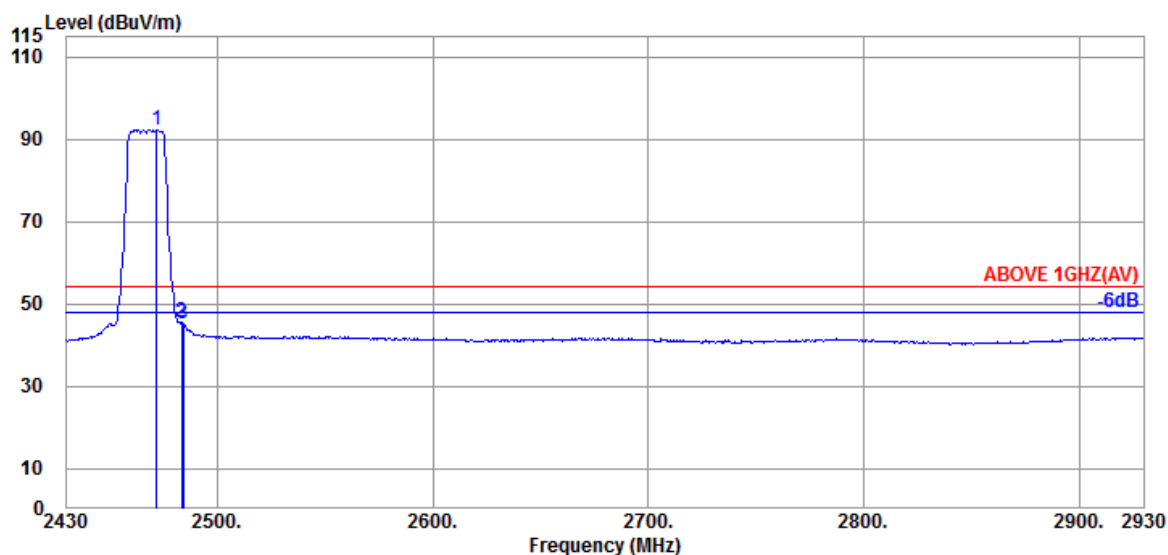
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Mode	802.11g	Frequency	TX 2467MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2459.500	28.41	5.83	39.95	107.75	102.04	---	---	Peak
2483.500	28.47	5.87	39.94	61.58	55.98	74.00	18.02	Peak
2485.000	28.47	5.87	39.94	61.80	56.20	74.00	17.80	Peak



Antenna at Vertical Polarization

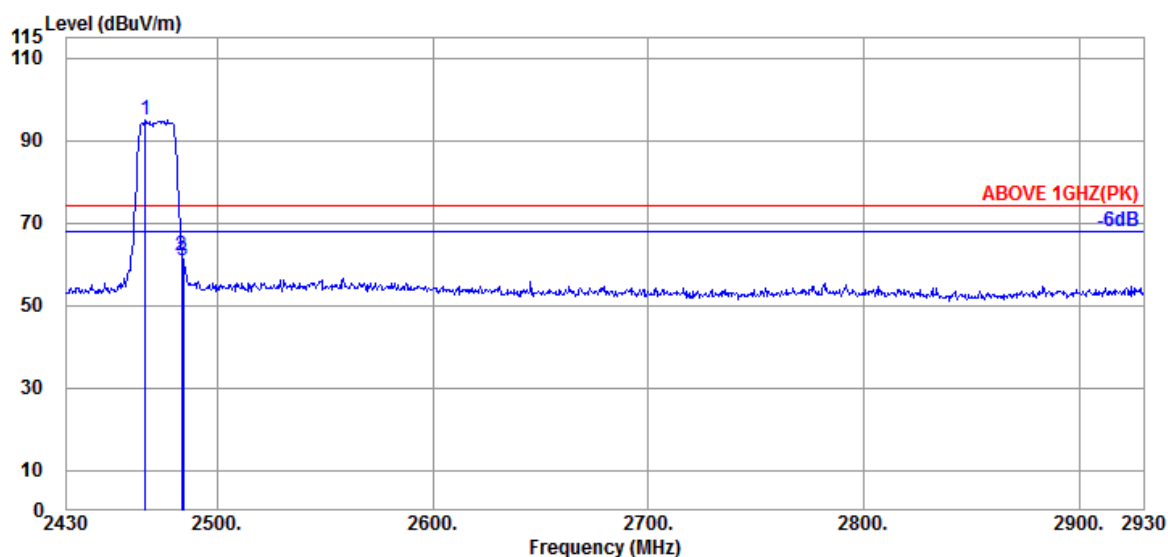
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@ 2472.000	28.44	5.85	39.94	97.88	92.23	---	---	Average
2483.500	28.47	5.87	39.94	51.06	45.46	54.00	8.54	Average
2484.000	28.47	5.87	39.94	50.68	45.08	54.00	8.92	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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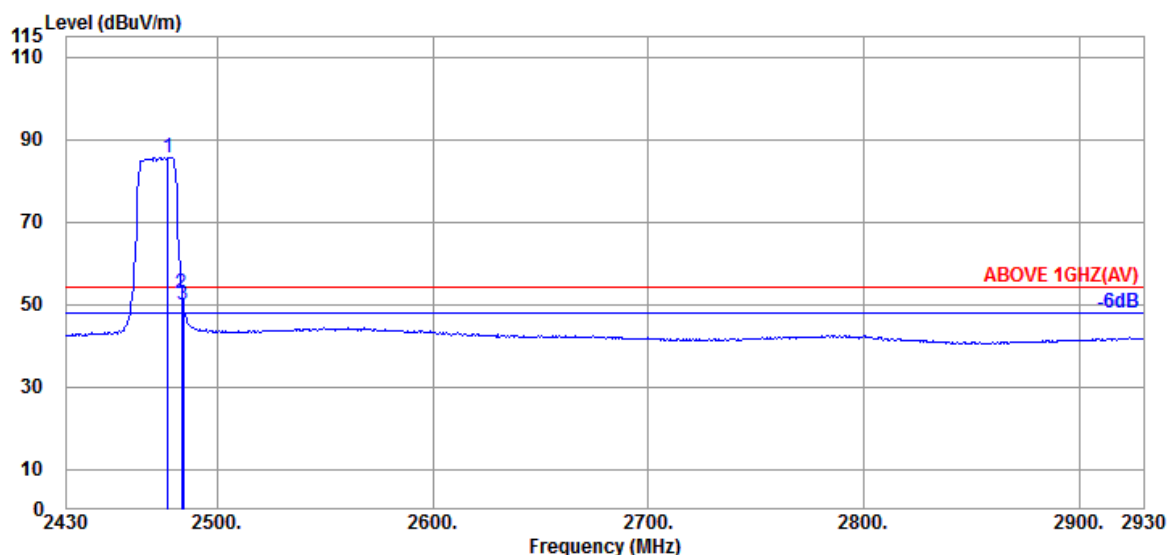
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Mode	802.11g	Frequency	TX 2472MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2466.500	28.43	5.84	39.95	100.76	95.08	---	---	Peak
2483.500	28.47	5.87	39.94	67.68	62.08	74.00	11.92	Peak
2484.000	28.47	5.87	39.94	66.40	60.80	74.00	13.20	Peak



Antenna at Horizontal Polarization

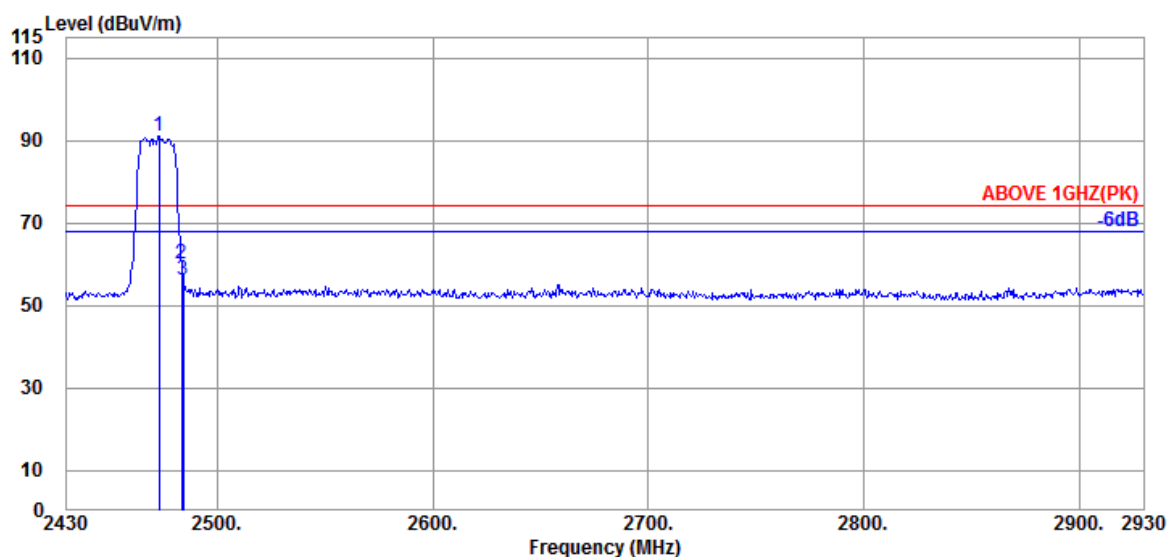
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2477.000	28.46	5.86	39.94	91.25	85.63	---	---	Average
2483.500	28.47	5.87	39.94	58.09	52.49	54.00	1.51	Average
2484.000	28.47	5.87	39.94	55.63	50.03	54.00	3.97	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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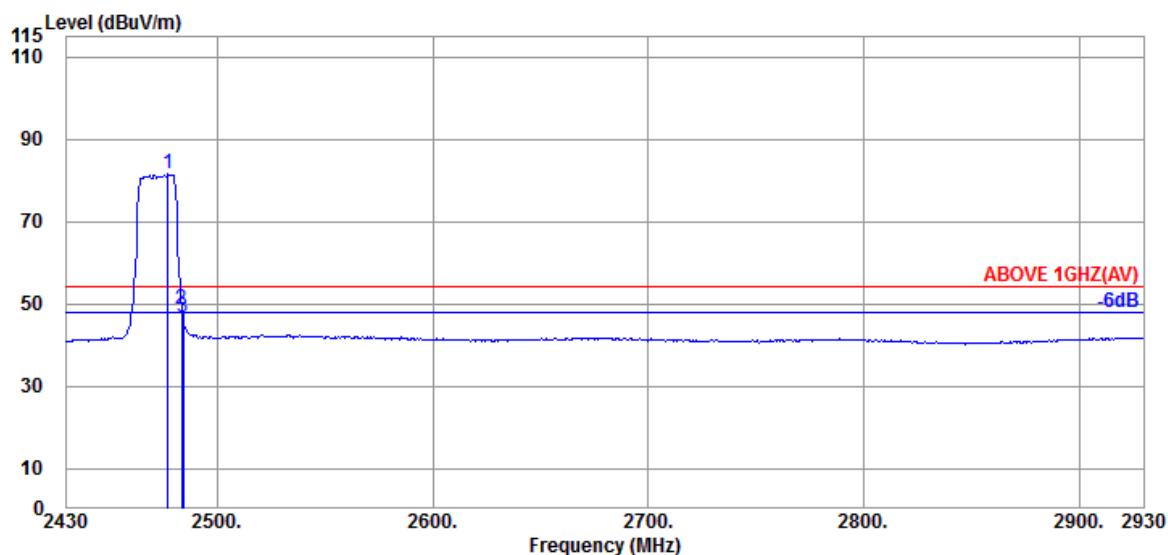
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Mode	802.11g	Frequency	TX 2472MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2473.000	28.44	5.85	39.94	96.58	90.93	---	---	Peak
2483.500	28.47	5.87	39.94	65.76	60.16	74.00	13.84	Peak
2484.000	28.47	5.87	39.94	61.82	56.22	74.00	17.78	Peak

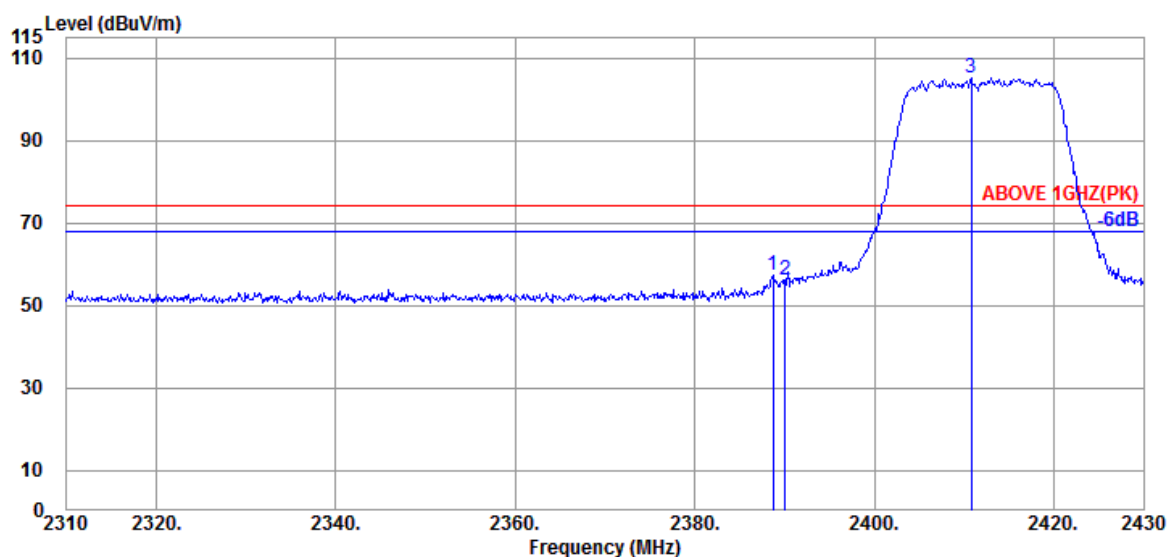


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2477.000	28.46	5.86	39.94	87.15	81.53	---	---	Average
2483.500	28.47	5.87	39.94	54.08	48.48	54.00	5.52	Average
2484.000	28.47	5.87	39.94	52.13	46.53	54.00	7.47	Average

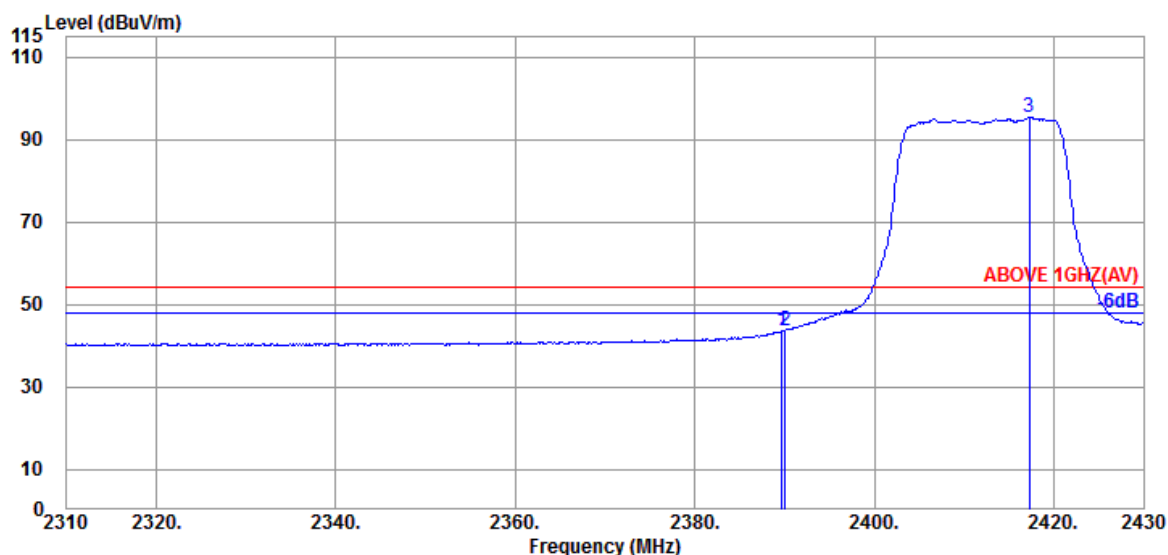
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.720	28.20	5.72	39.95	63.43	57.40	74.00	16.60	Peak
2390.040	28.20	5.72	39.95	62.10	56.07	74.00	17.93	Peak
@ 2410.800	28.23	5.75	39.95	111.11	105.14	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	28.20	5.72	39.95	49.68	43.65	54.00	10.35	Average
2390.040	28.20	5.72	39.95	49.72	43.69	54.00	10.31	Average
@ 2417.280	28.26	5.76	39.95	101.30	95.37	---	---	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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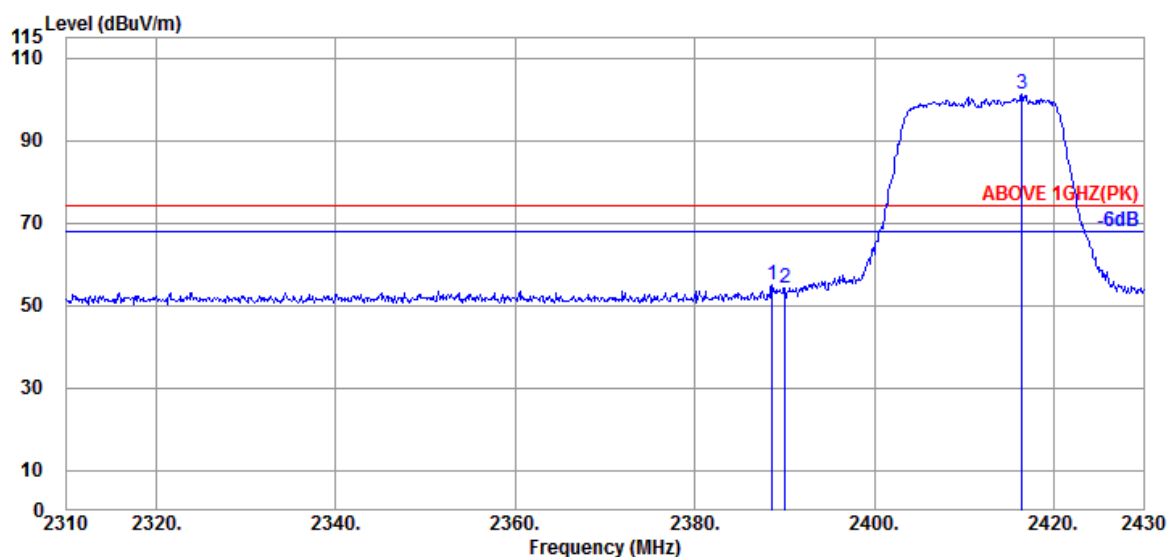
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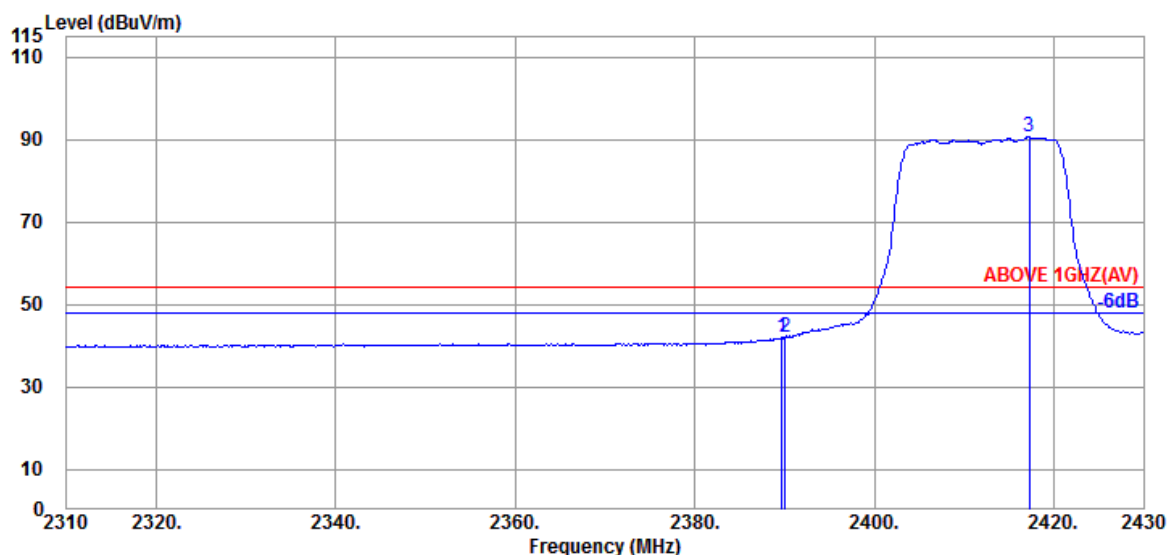
Fax: +886 2 26099303

Mode	802.11n-HT20	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.600	28.20	5.72	39.95	60.79	54.76	74.00	19.24	Peak
2390.040	28.20	5.72	39.95	60.27	54.24	74.00	19.76	Peak
@ 2416.440	28.26	5.76	39.95	107.06	101.13	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	28.20	5.72	39.95	48.14	42.11	54.00	11.89	Average
2390.040	28.20	5.72	39.95	47.99	41.96	54.00	12.04	Average
@ 2417.280	28.26	5.76	39.95	96.65	90.72	---	---	Average

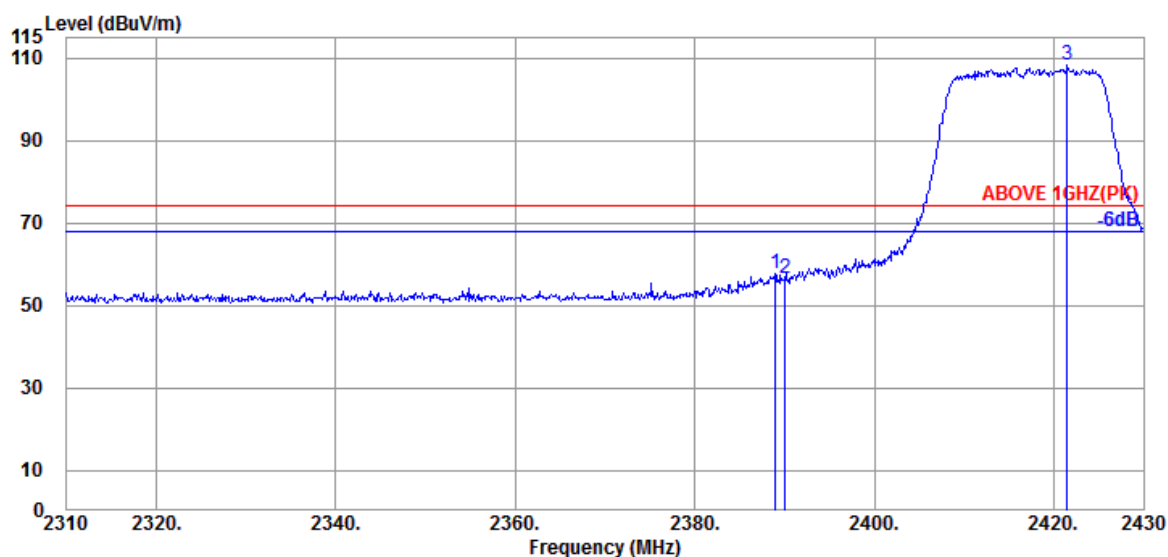
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File Number: CIM2201270

Report Number: EM-F220108

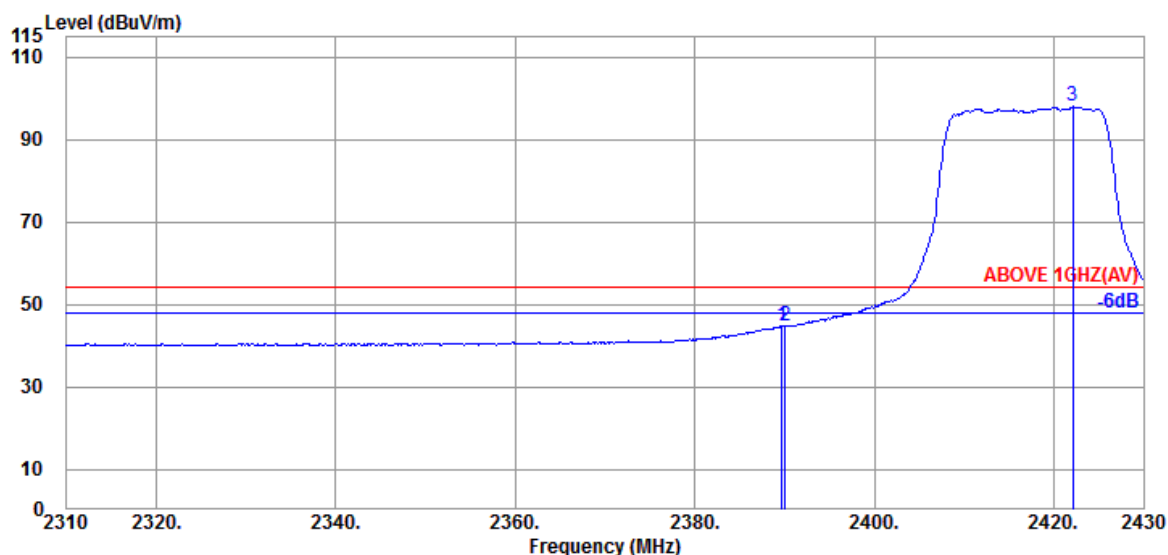
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Mode	802.11n-HT20	Frequency	TX 2417MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.960	28.20	5.72	39.95	63.63	57.60	74.00	16.40	Peak
2390.040	28.20	5.72	39.95	62.41	56.38	74.00	17.62	Peak
@ 2421.480	28.29	5.77	39.95	114.41	108.52	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	28.20	5.72	39.95	50.68	44.65	54.00	9.35	Average
2390.040	28.20	5.72	39.95	50.85	44.82	54.00	9.18	Average
@ 2422.080	28.29	5.77	39.95	103.86	97.97	---	---	Average

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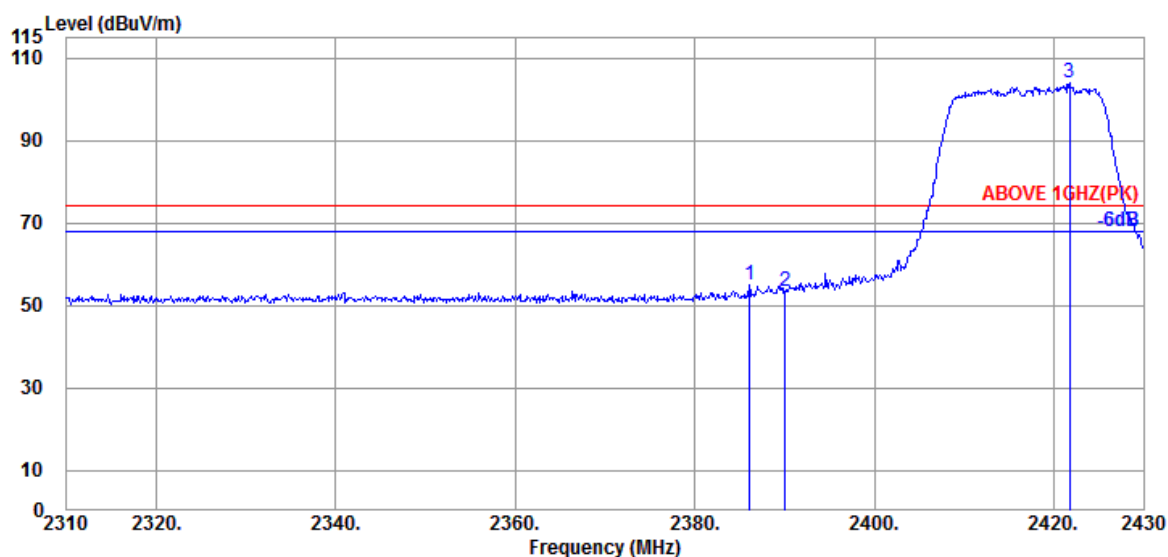
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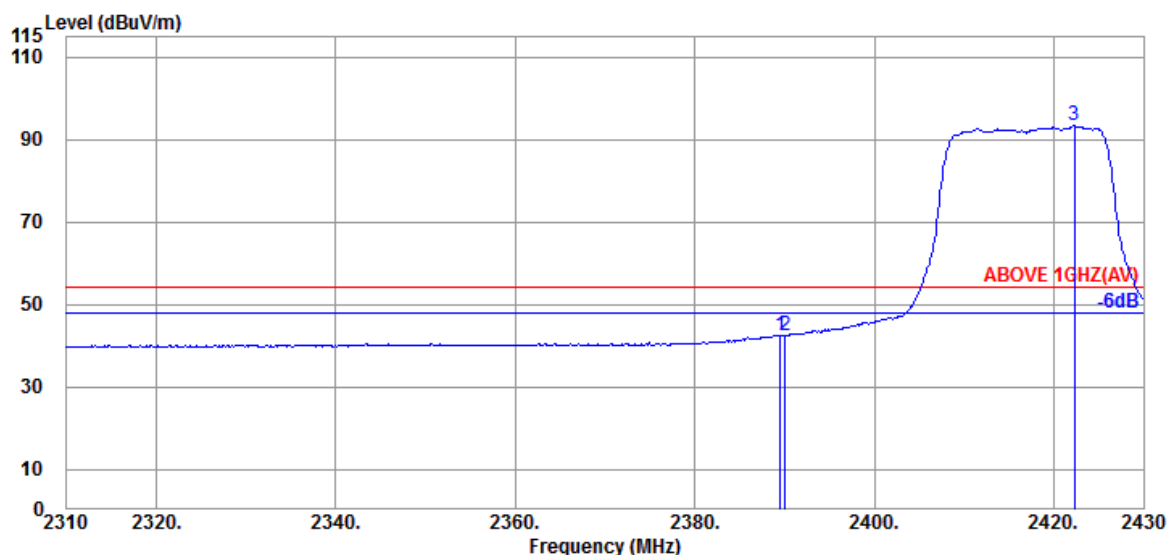
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Mode	802.11n-HT20	Frequency	TX 2417MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2386.080	28.20	5.72	39.96	61.09	55.05	74.00	18.95	Peak
2390.040	28.20	5.72	39.95	59.33	53.30	74.00	20.70	Peak
@ 2421.720	28.29	5.77	39.95	109.71	103.82	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.560	28.20	5.72	39.95	48.55	42.52	54.00	11.48	Average
2390.040	28.20	5.72	39.95	48.40	42.37	54.00	11.63	Average
@ 2422.320	28.29	5.77	39.95	99.25	93.36	---	---	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.

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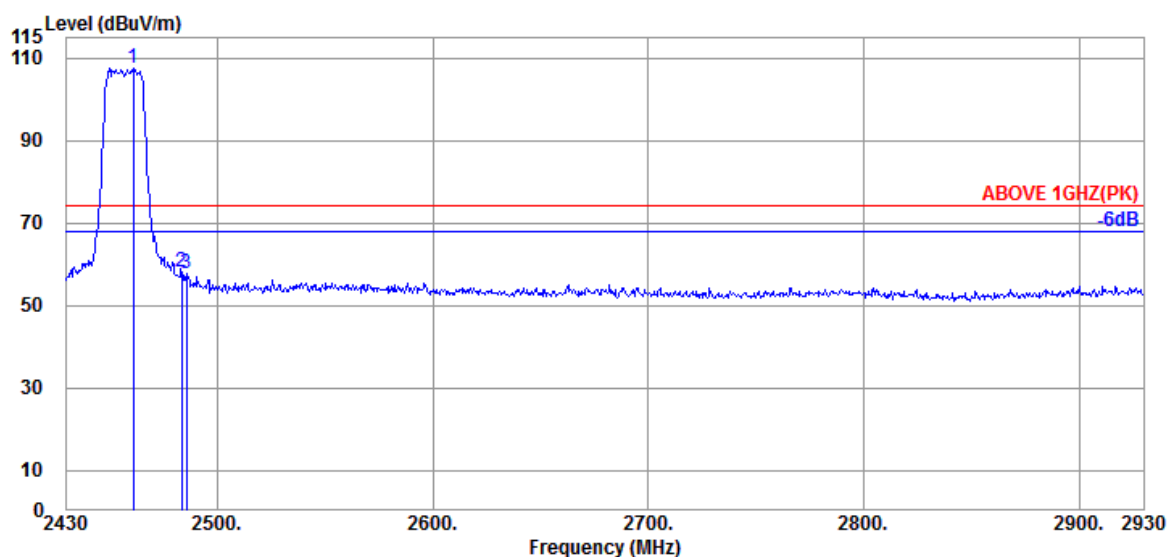
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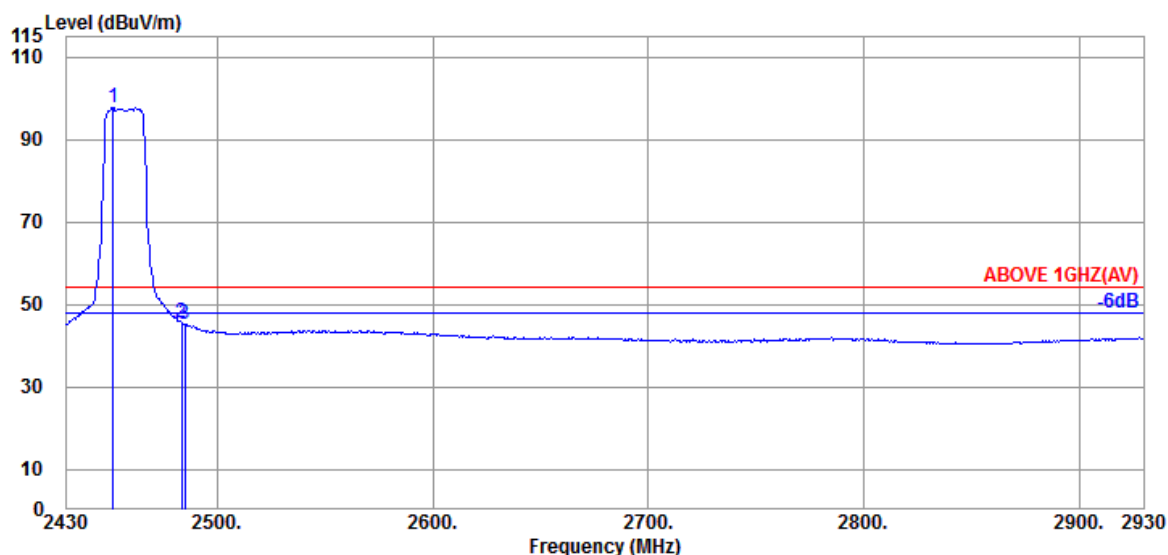
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Mode	802.11n-HT20	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2461.000	28.43	5.84	39.95	113.24	107.56	---	---	Peak
2483.500	28.47	5.87	39.94	63.58	57.98	74.00	16.02	Peak
2485.500	28.47	5.87	39.94	63.39	57.79	74.00	16.21	Peak

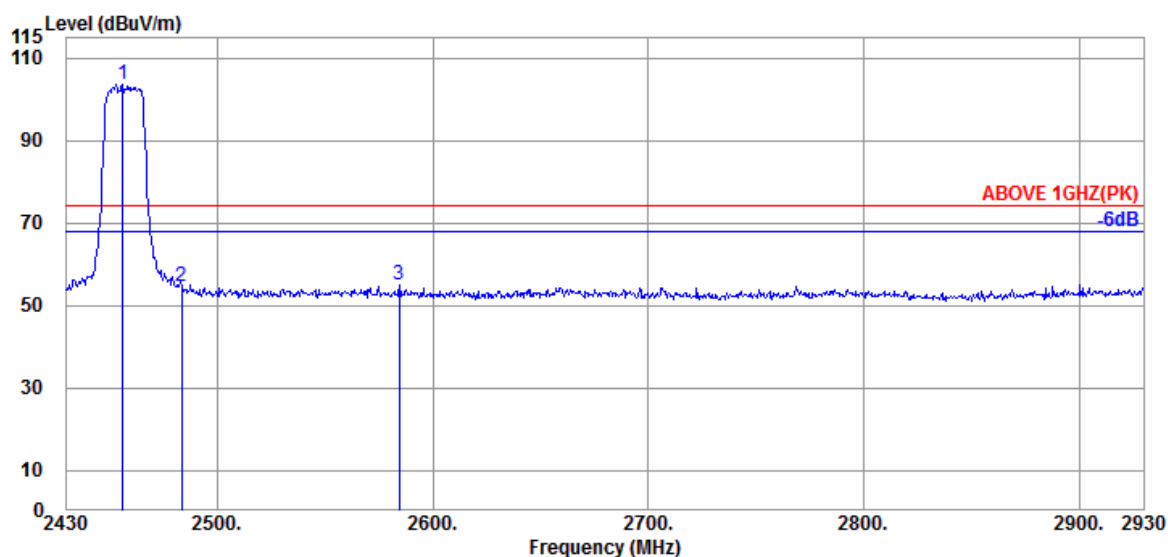


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2451.500	28.40	5.81	39.95	103.49	97.75	---	---	Average
2483.500	28.47	5.87	39.94	51.15	45.55	54.00	8.45	Average
2485.000	28.47	5.87	39.94	50.93	45.33	54.00	8.67	Average

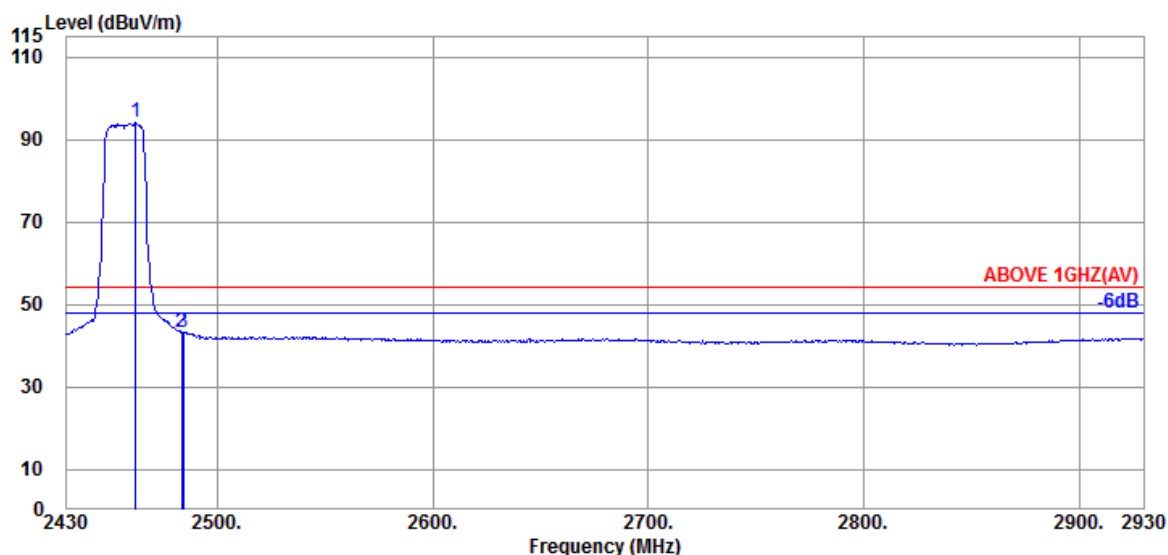
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2457MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2456.000	28.41	5.83	39.95	109.45	103.74	---	---	Peak
2483.500	28.47	5.87	39.94	60.11	54.51	74.00	19.49	Peak
2584.500	28.84	6.10	39.97	60.10	55.07	74.00	18.93	Peak



Antenna at Vertical Polarization

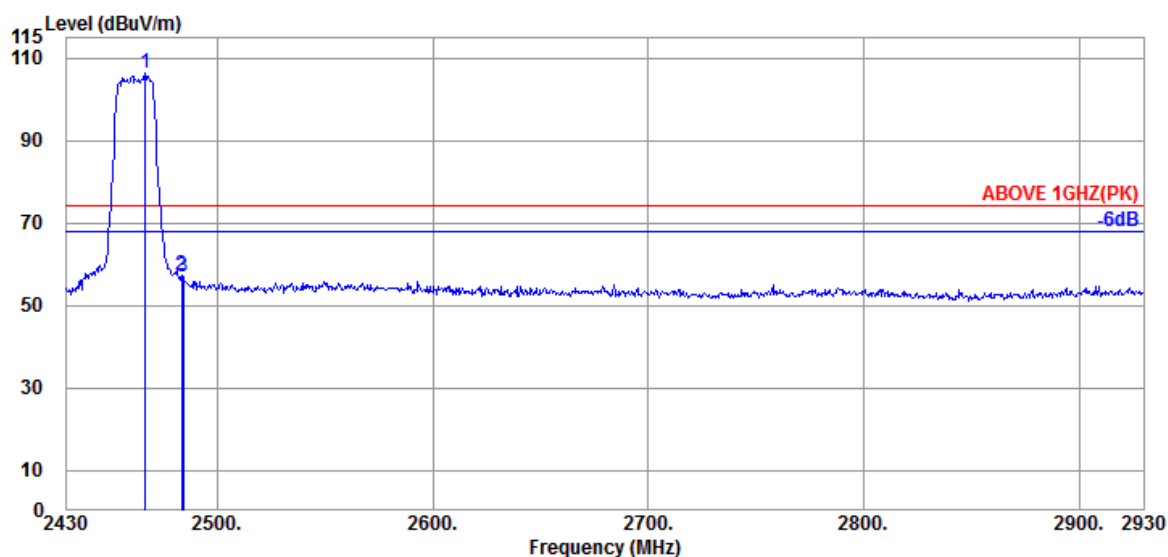
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@ 2462.000	28.43	5.84	39.95	99.80	94.12	---	---	Average
2483.500	28.47	5.87	39.94	48.79	43.19	54.00	10.81	Average
2484.000	28.47	5.87	39.94	48.81	43.21	54.00	10.79	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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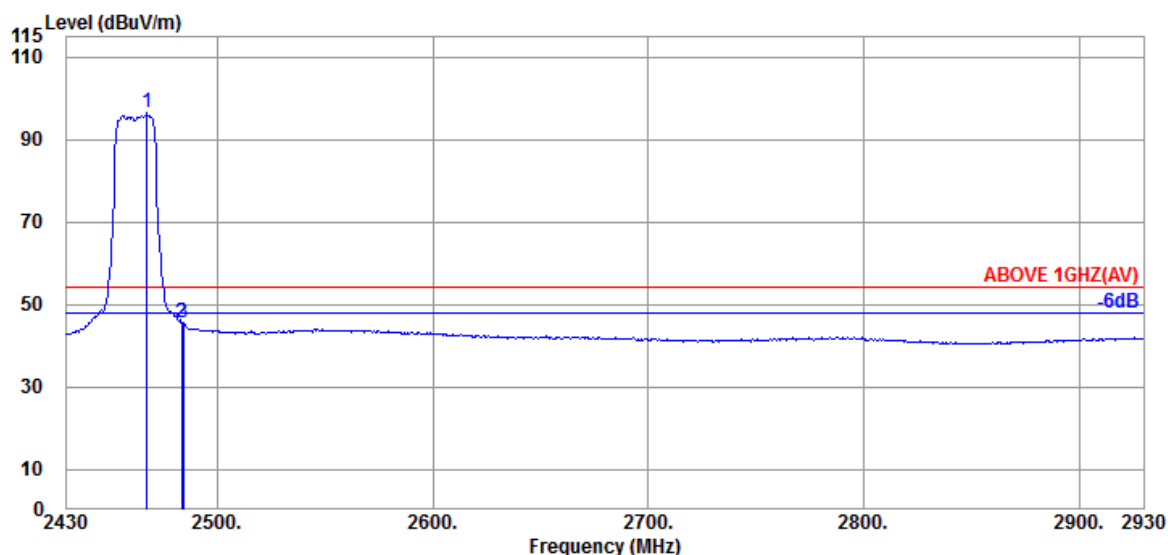
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Mode	802.11n-HT20	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2466.500	28.43	5.84	39.95	112.21	106.53	---	---	Peak
2483.500	28.47	5.87	39.94	62.89	57.29	74.00	16.71	Peak
2484.000	28.47	5.87	39.94	62.48	56.88	74.00	17.12	Peak

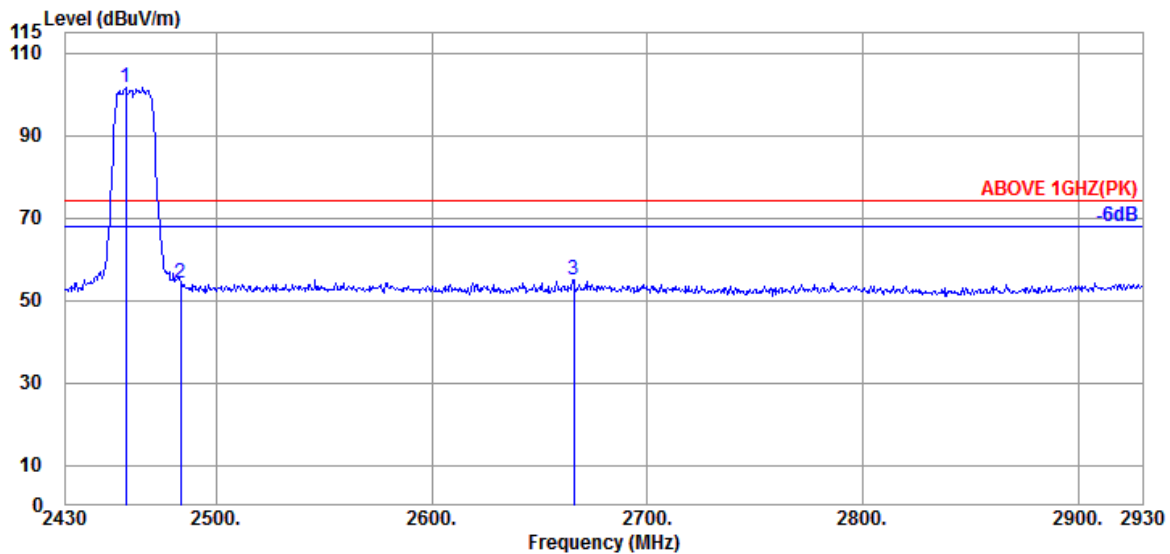


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2467.500	28.43	5.84	39.94	102.04	96.37	---	---	Average
2483.500	28.47	5.87	39.94	51.04	45.44	54.00	8.56	Average
2484.000	28.47	5.87	39.94	50.94	45.34	54.00	8.66	Average

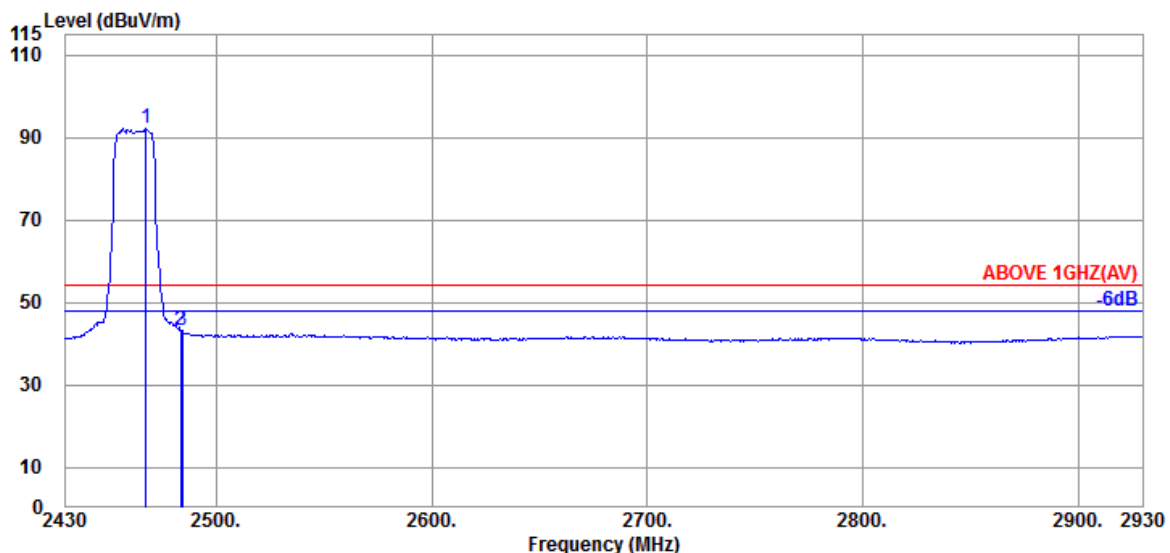
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2458.000	28.41	5.83	39.95	107.43	101.72	---	---	Peak
2483.500	28.47	5.87	39.94	59.69	54.09	74.00	19.91	Peak
2666.000	28.93	6.28	39.99	59.86	55.08	74.00	18.92	Peak



Antenna at Vertical Polarization

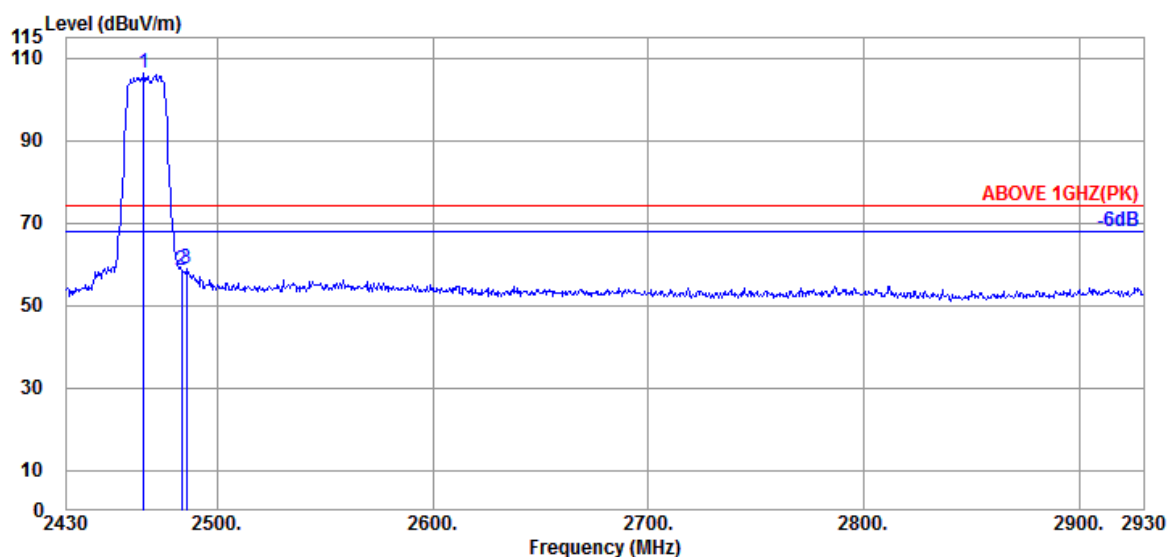
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@ 2467.500	28.43	5.84	39.94	97.90	92.23	---	---	Average
2483.500	28.47	5.87	39.94	48.79	43.19	54.00	10.81	Average
2484.000	28.47	5.87	39.94	48.58	42.98	54.00	11.02	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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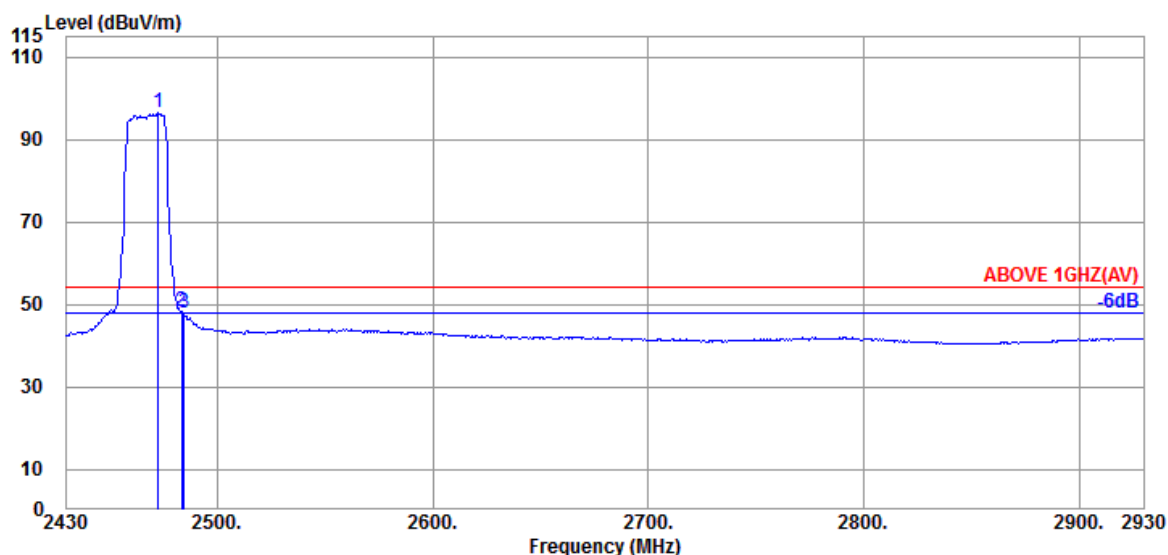
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Mode	802.11n-HT20	Frequency	TX 2467MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2466.000	28.43	5.84	39.95	111.86	106.18	---	---	Peak
2483.500	28.47	5.87	39.94	63.96	58.36	74.00	15.64	Peak
2485.500	28.47	5.87	39.94	64.62	59.02	74.00	14.98	Peak

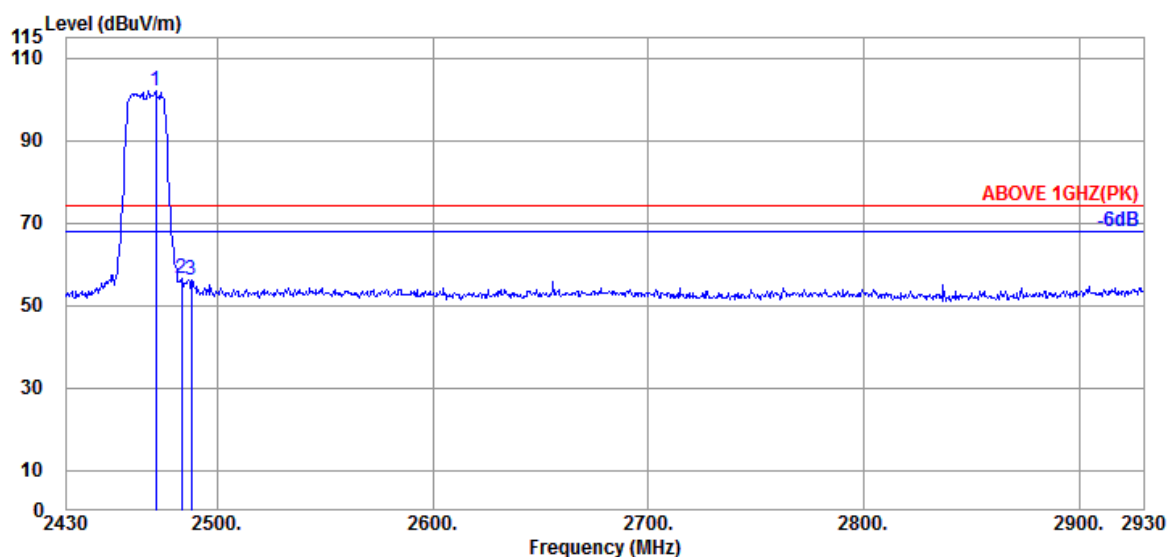


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2472.500	28.44	5.85	39.94	102.02	96.37	---	---	Average
2483.500	28.47	5.87	39.94	53.94	48.34	54.00	5.66	Average
2484.500	28.47	5.87	39.94	53.52	47.92	54.00	6.08	Average

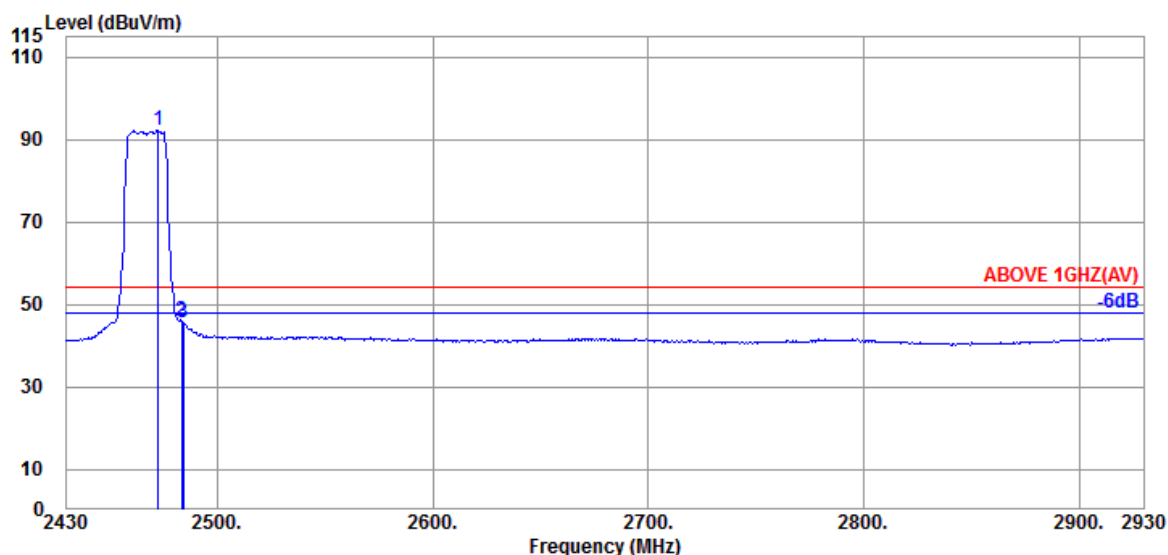
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2467MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2471.500	28.44	5.85	39.94	107.81	102.16	---	---	Peak
2483.500	28.47	5.87	39.94	62.14	56.54	74.00	17.46	Peak
2488.000	28.47	5.87	39.94	61.82	56.22	74.00	17.78	Peak



Antenna at Vertical Polarization

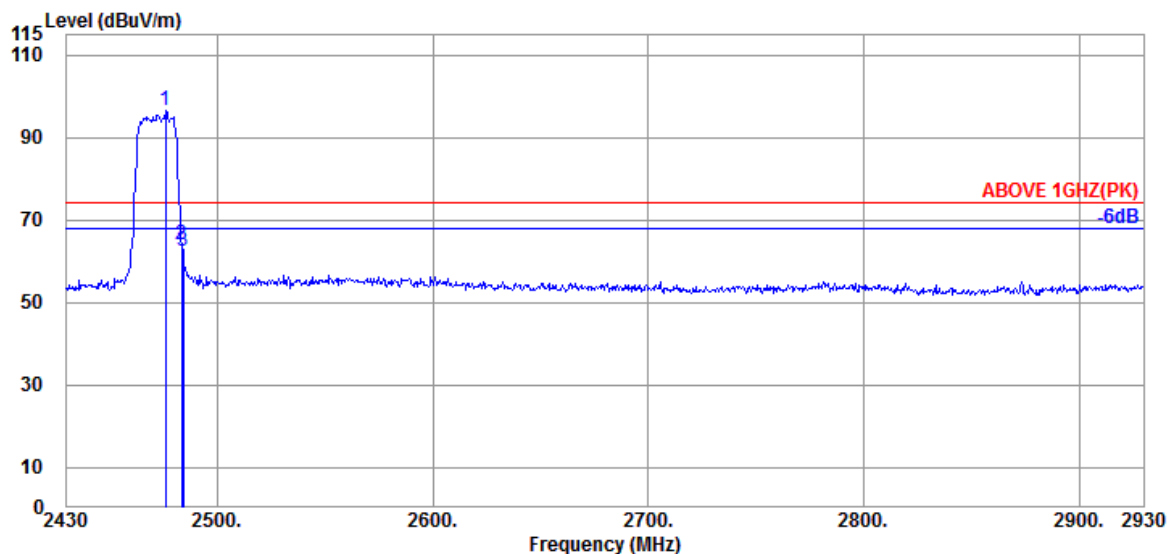
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@ 2472.500	28.44	5.85	39.94	97.93	92.28	---	---	Average
2483.500	28.47	5.87	39.94	51.35	45.75	54.00	8.25	Average
2484.000	28.47	5.87	39.94	50.98	45.38	54.00	8.62	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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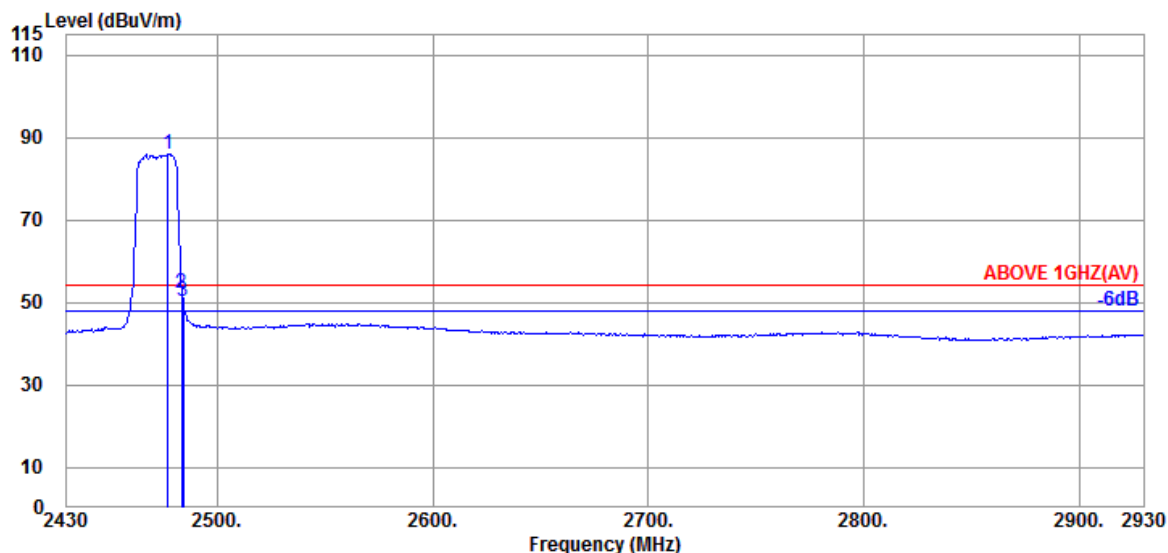
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Mode	802.11n-HT20	Frequency	TX 2472MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2476.000	28.46	5.86	39.94	102.00	96.38	---	---	Peak
2483.500	28.47	5.87	39.94	69.42	63.82	74.00	10.18	Peak
2484.000	28.47	5.87	39.94	67.92	62.32	74.00	11.68	Peak



Antenna at Horizontal Polarization

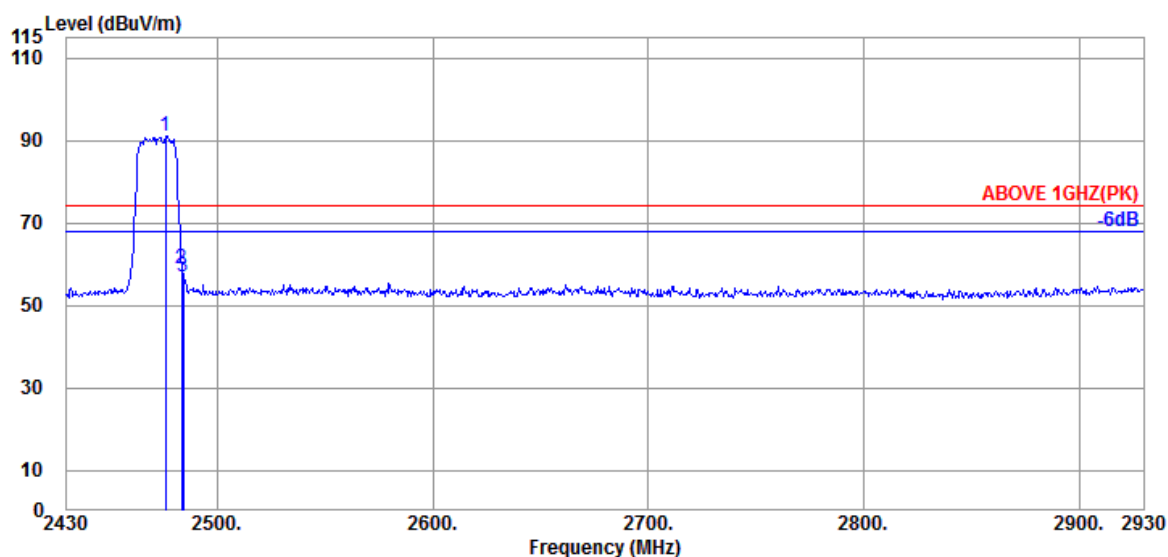
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2477.000	28.46	5.86	39.94	91.52	85.90	---	---	Average
2483.500	28.47	5.87	39.94	57.97	52.37	54.00	1.63	Average
2484.000	28.47	5.87	39.94	55.83	50.23	54.00	3.77	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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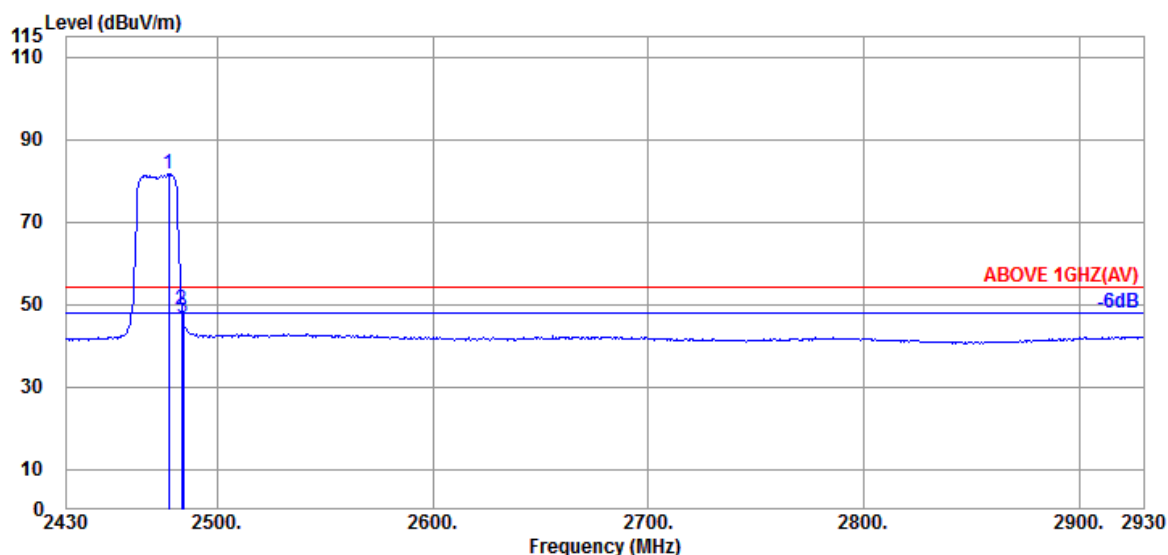
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Mode	802.11n-HT20	Frequency	TX 2472MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2476.000	28.46	5.86	39.94	96.55	90.93	---	---	Peak
2483.500	28.47	5.87	39.94	64.48	58.88	74.00	15.12	Peak
2484.000	28.47	5.87	39.94	62.37	56.77	74.00	17.23	Peak

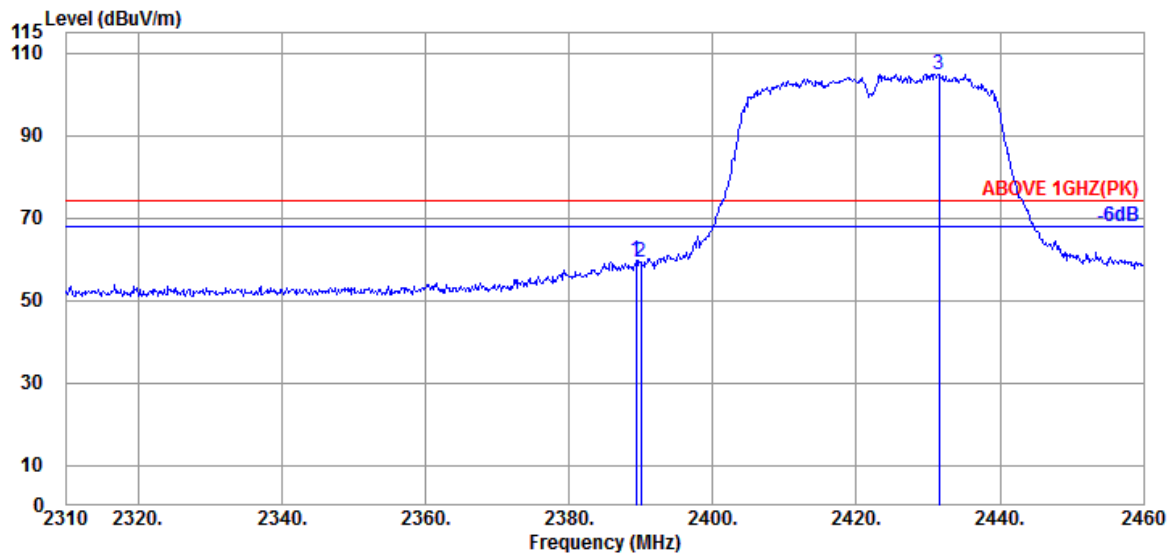


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2477.500	28.46	5.86	39.94	87.33	81.71	---	---	Average
2483.500	28.47	5.87	39.94	54.11	48.51	54.00	5.49	Average
2484.000	28.47	5.87	39.94	52.24	46.64	54.00	7.36	Average

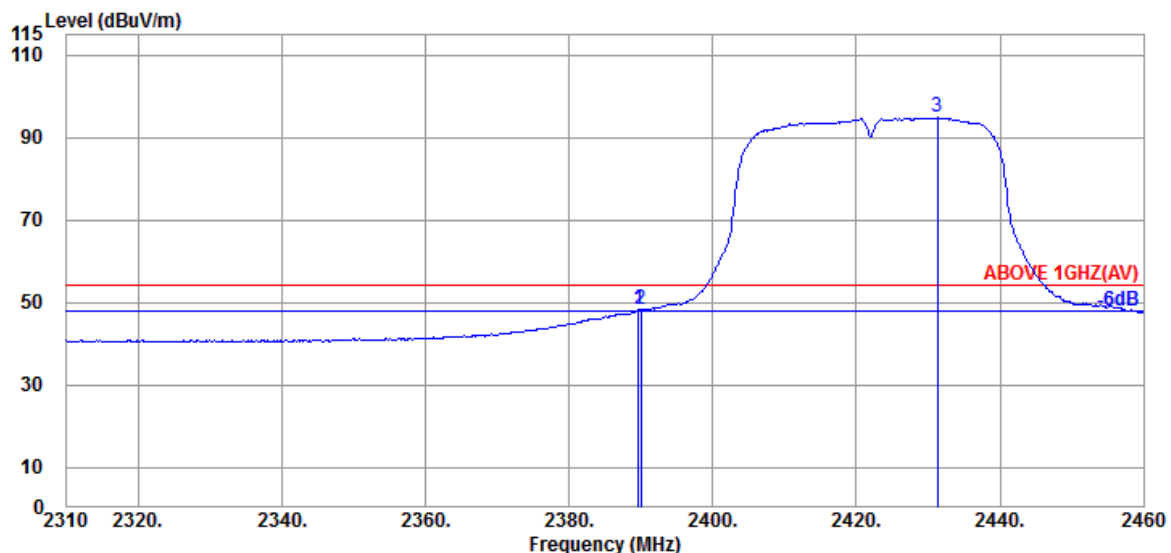
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT40	Frequency	TX 2422MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Liits (dBUV/m)	Margin (dB)	Detector
2389.350	28.20	5.72	39.95	65.62	59.59	74.00	14.41	Peak
2389.950	28.20	5.72	39.95	65.14	59.11	74.00	14.89	Peak
@ 2431.500	28.31	5.78	39.95	110.79	104.93	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.650	28.20	5.72	39.95	54.12	48.09	54.00	5.91	Average
2389.950	28.20	5.72	39.95	54.15	48.12	54.00	5.88	Average
@ 2431.350	28.31	5.78	39.95	100.66	94.80	---	---	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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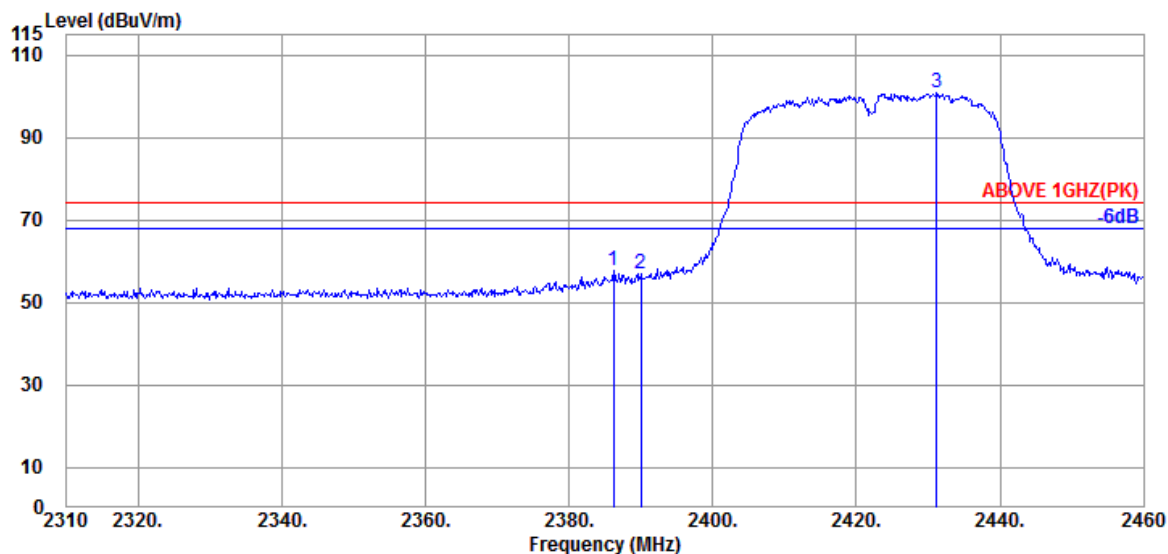
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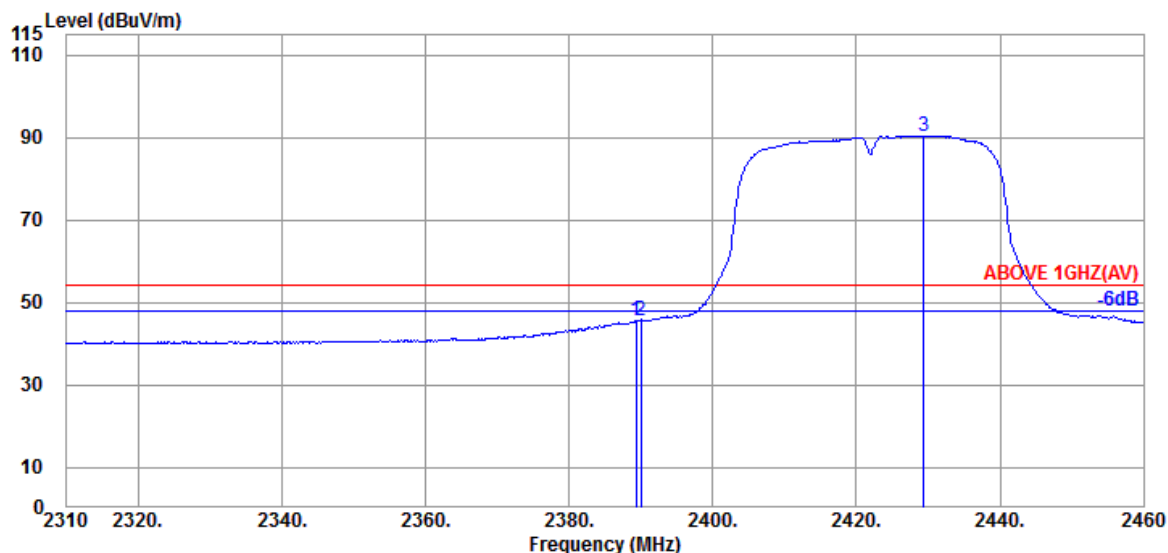
Fax: +886 2 26099303

Mode	802.11n-HT40	Frequency	TX 2422MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2386.200	28.20	5.72	39.96	63.85	57.81	74.00	16.19	Peak
2389.950	28.20	5.72	39.95	62.84	56.81	74.00	17.19	Peak
@ 2431.200	28.31	5.78	39.95	106.78	100.92	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.350	28.20	5.72	39.95	51.65	45.62	54.00	8.38	Average
2389.950	28.20	5.72	39.95	51.61	45.58	54.00	8.42	Average
@ 2429.400	28.31	5.78	39.95	96.32	90.46	---	---	Average

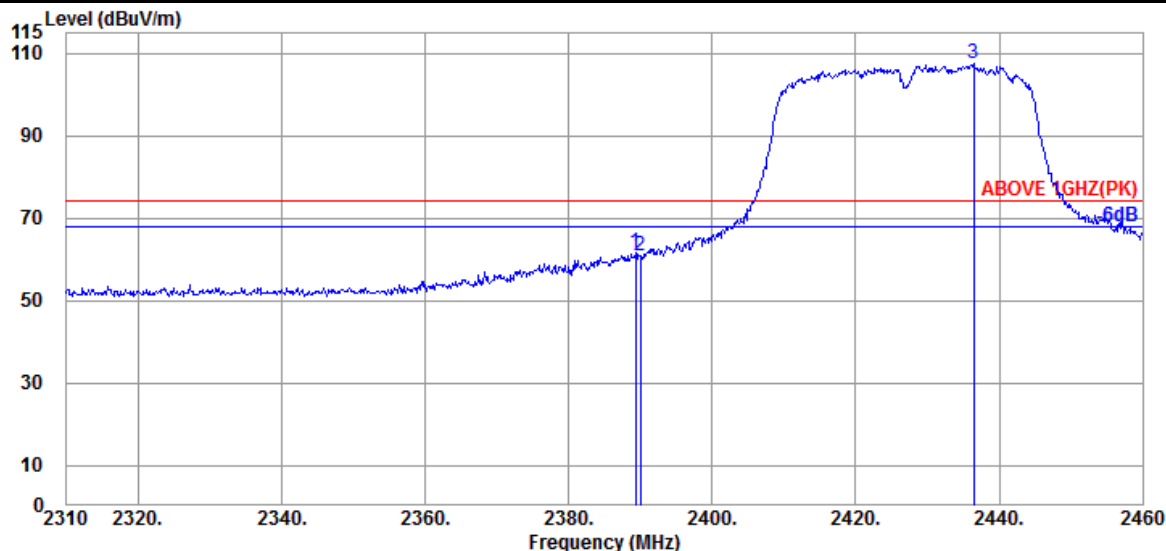
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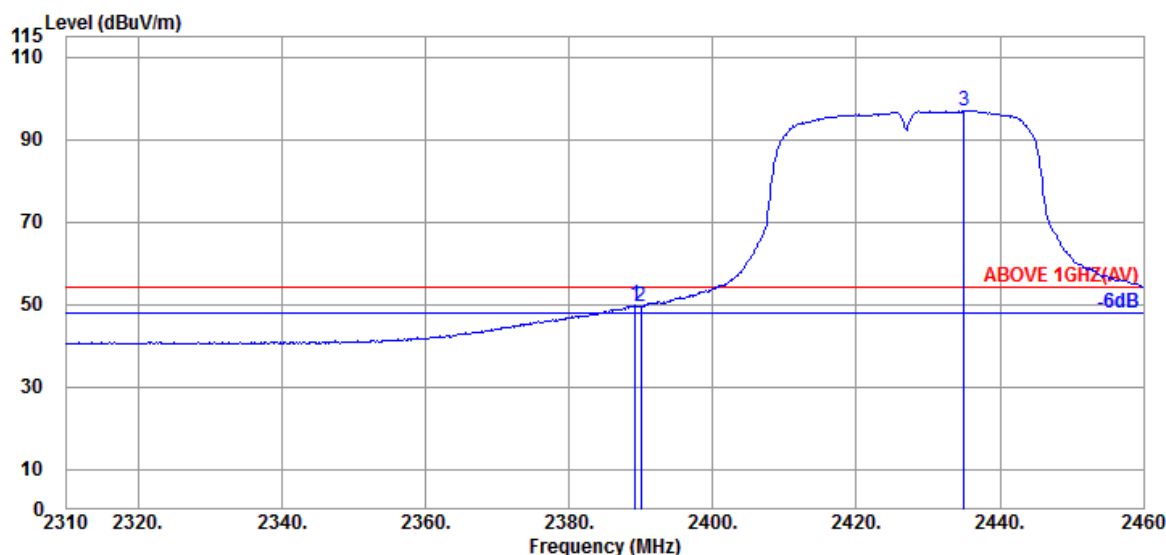
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Mode	802.11n-HT40	Frequency	TX 2427MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Liits (dBμV/m)	Margin (dB)	Detector
2389.350	28.20	5.72	39.95	67.49	61.46	74.00	12.54	Peak
2389.950	28.20	5.72	39.95	66.72	60.69	74.00	13.31	Peak
@ 2436.450	28.34	5.79	39.95	113.29	107.47	---	---	Peak

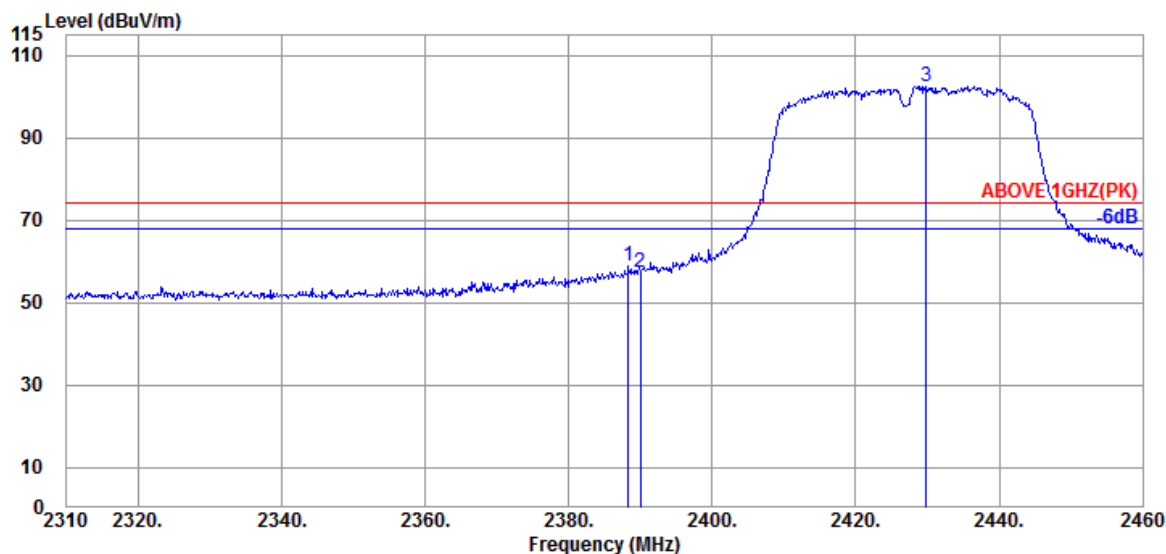


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.200	28.20	5.72	39.95	55.92	49.89	54.00	4.11	Average
2389.950	28.20	5.72	39.95	55.57	49.54	54.00	4.46	Average
@ 2434.950	28.34	5.79	39.95	102.81	96.99	---	---	Average

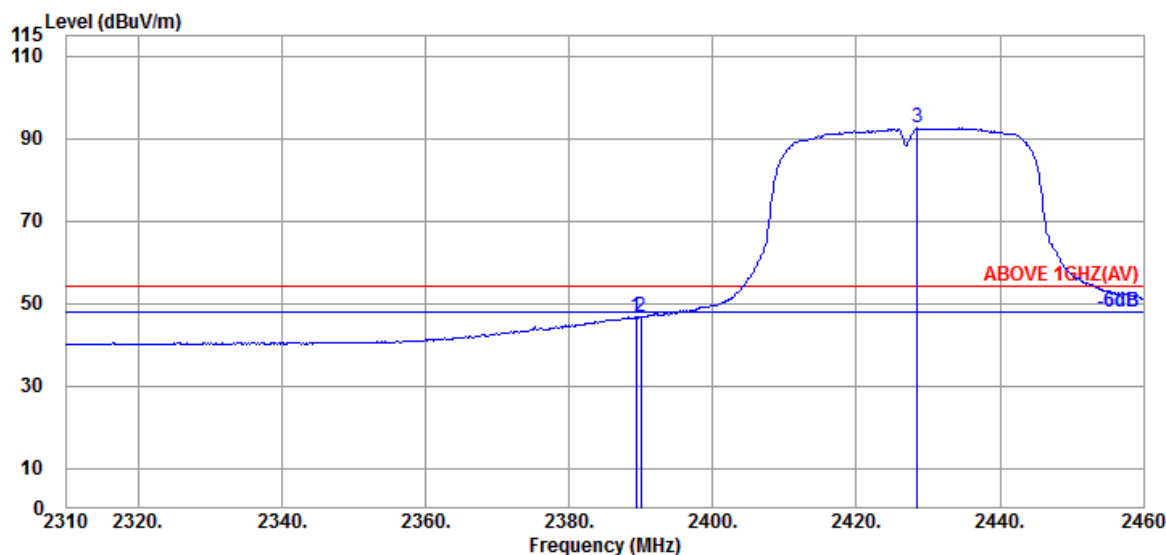
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT40	Frequency	TX 2427MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.300	28.20	5.72	39.95	64.78	58.75	74.00	15.25	Peak
2389.950	28.20	5.72	39.95	63.14	57.11	74.00	16.89	Peak
@ 2429.850	28.31	5.78	39.95	108.34	102.48	---	---	Peak

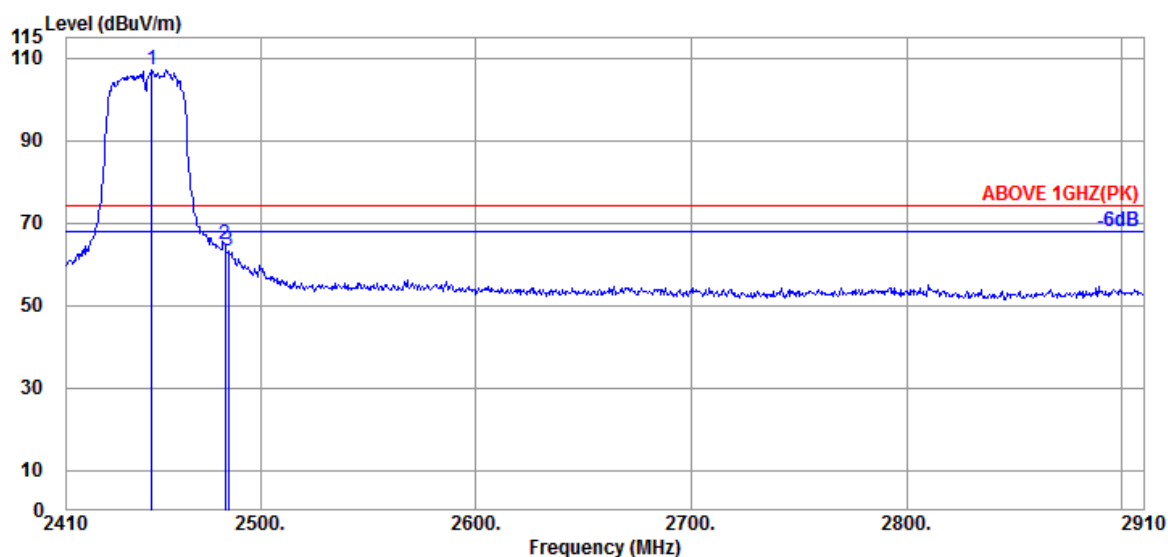


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.350	28.20	5.72	39.95	52.83	46.80	54.00	7.20	Average
2389.950	28.20	5.72	39.95	52.82	46.79	54.00	7.21	Average
@ 2428.500	28.31	5.78	39.95	98.33	92.47	---	---	Average

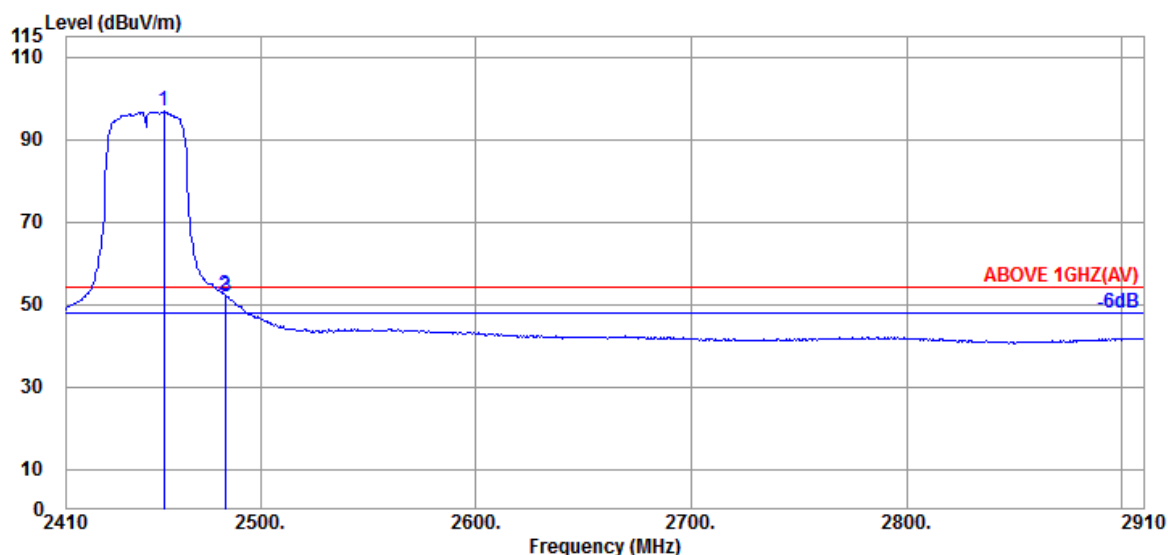
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT40	Frequency	TX 2447MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2449.500	28.40	5.81	39.95	112.81	107.07	---	---	Peak
2483.500	28.47	5.87	39.94	70.30	64.70	74.00	9.30	Peak
2485.000	28.47	5.87	39.94	68.64	63.04	74.00	10.96	Peak



Antenna at Horizontal Polarization

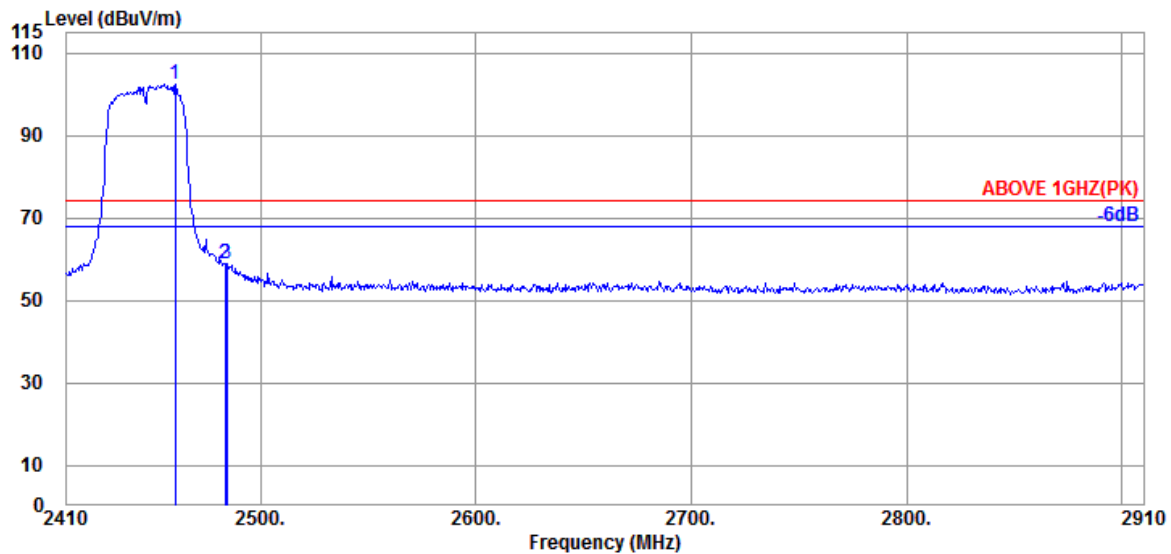
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@ 2455.000	28.41	5.83	39.95	102.59	96.88	---	---	Average
2483.500	28.47	5.87	39.94	57.78	52.18	54.00	1.82	Average
2484.000	28.47	5.87	39.94	57.52	51.92	54.00	2.08	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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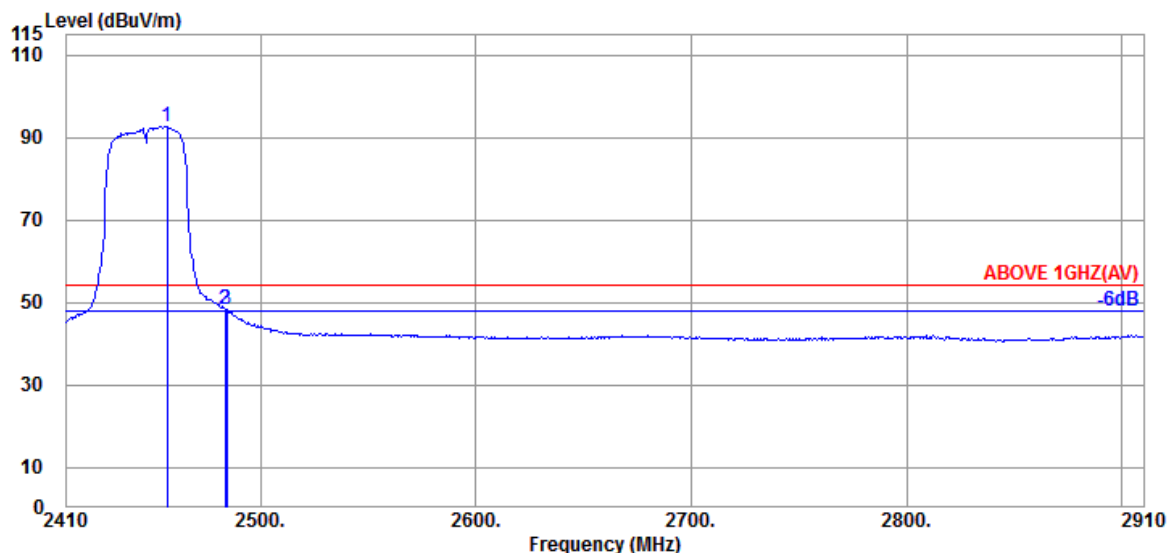
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Mode	802.11n-HT40	Frequency	TX 2447MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2460.500	28.43	5.84	39.95	107.98	102.30	---	---	Peak
2483.500	28.47	5.87	39.94	64.50	58.90	74.00	15.10	Peak
2484.500	28.47	5.87	39.94	64.52	58.92	74.00	15.08	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2456.500	28.41	5.83	39.95	98.51	92.80	---	---	Average
2483.500	28.47	5.87	39.94	54.04	48.44	54.00	5.56	Average
2484.500	28.47	5.87	39.94	53.75	48.15	54.00	5.85	Average

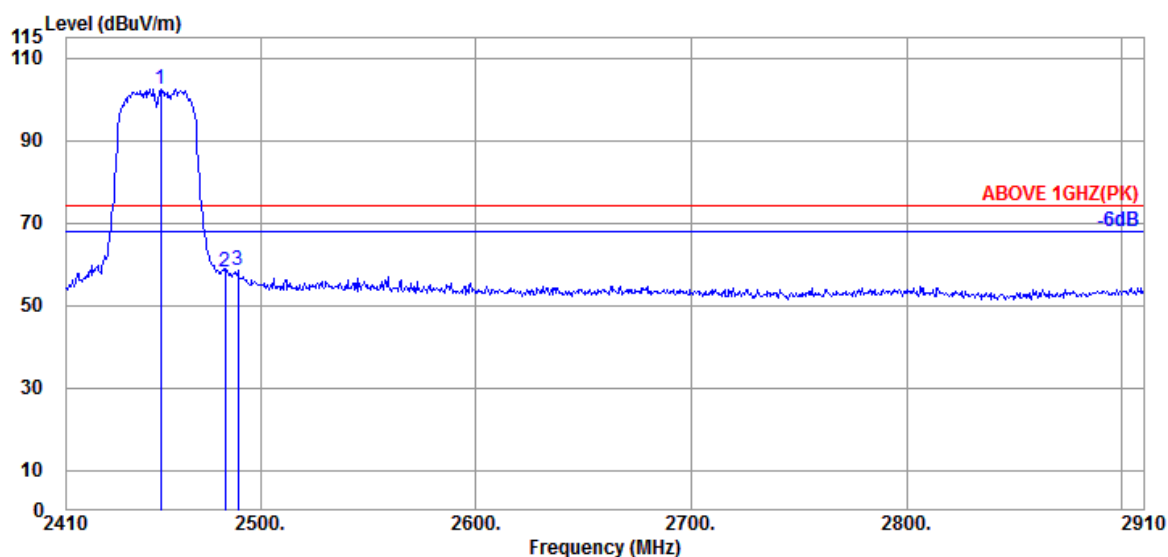
Remark: The “@” means fundamental frequency, it is ignored in this section.

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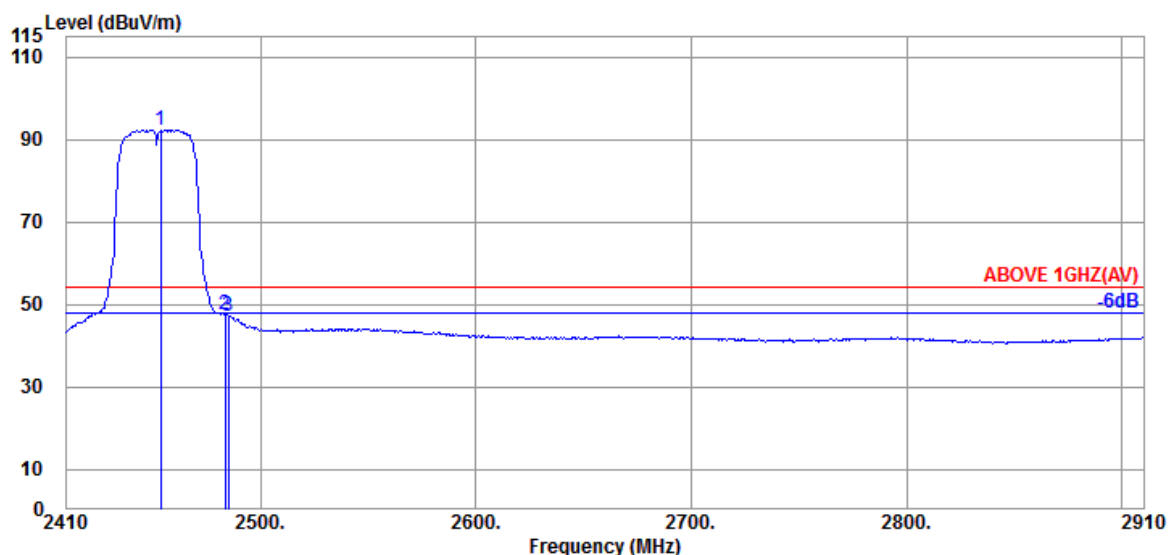
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Mode	802.11n-HT40	Frequency	TX 2452MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2453.500	28.41	5.83	39.95	108.21	102.50	---	---	Peak
2483.500	28.47	5.87	39.94	63.72	58.12	74.00	15.88	Peak
2489.500	28.49	5.88	39.94	63.95	58.38	74.00	15.62	Peak



Antenna at Horizontal Polarization

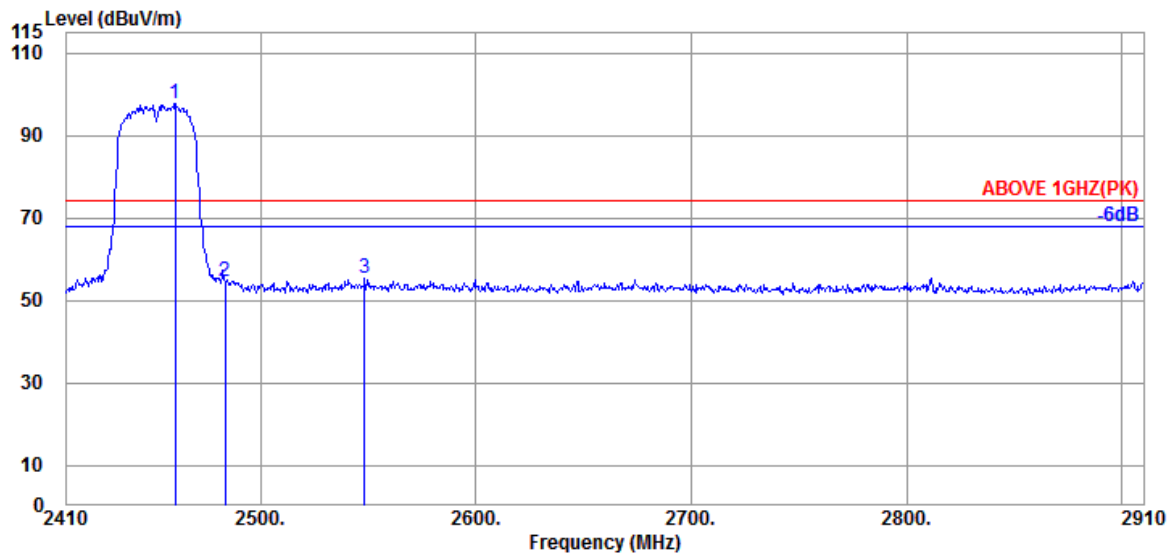
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2453.500	28.41	5.83	39.95	98.05	92.34	---	---	Average
2483.500	28.47	5.87	39.94	53.09	47.49	54.00	6.51	Average
2485.000	28.47	5.87	39.94	52.82	47.22	54.00	6.78	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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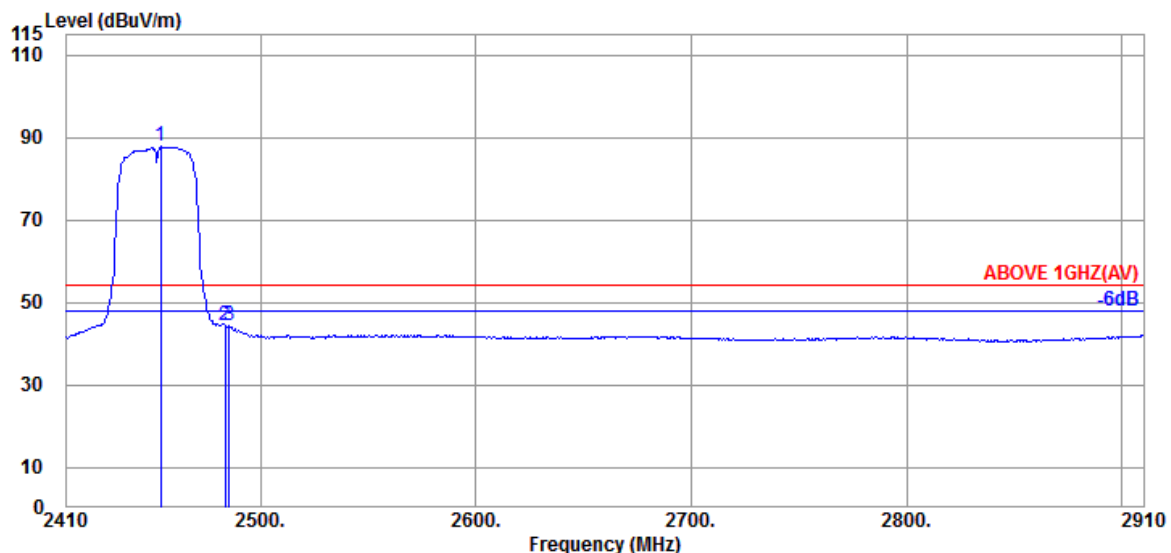
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Mode	802.11n-HT40	Frequency	TX 2452MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2460.500	28.43	5.84	39.95	103.37	97.69	---	---	Peak
2483.500	28.47	5.87	39.94	59.99	54.39	74.00	19.61	Peak
2548.500	28.70	6.01	39.95	60.54	55.30	74.00	18.70	Peak



Antenna at Vertical Polarization

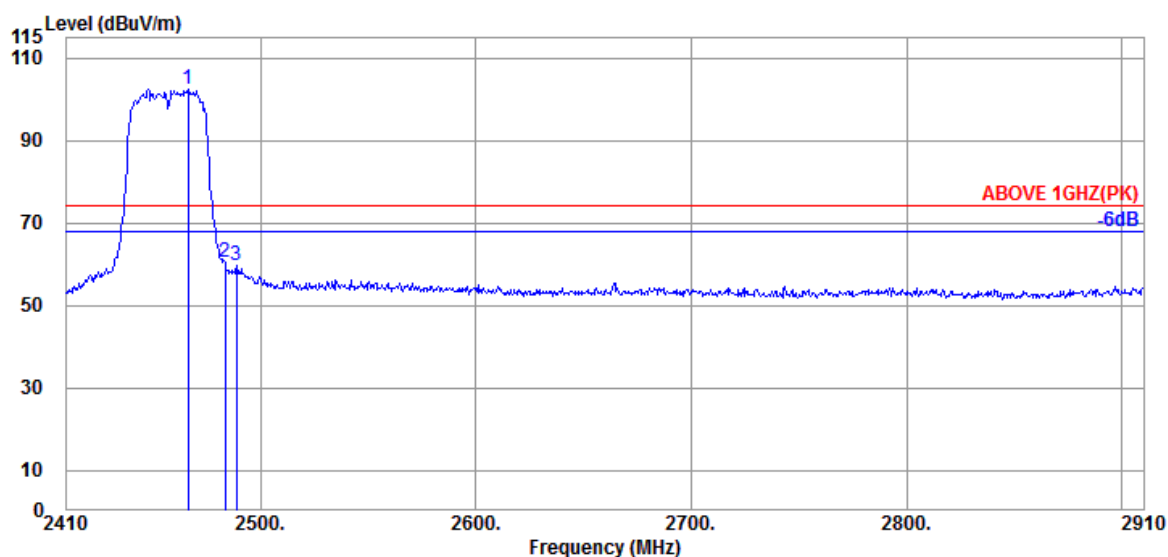
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2453.500	28.41	5.83	39.95	93.53	87.82	---	---	Average
2483.500	28.47	5.87	39.94	49.93	44.33	54.00	9.67	Average
2485.500	28.47	5.87	39.94	49.81	44.21	54.00	9.79	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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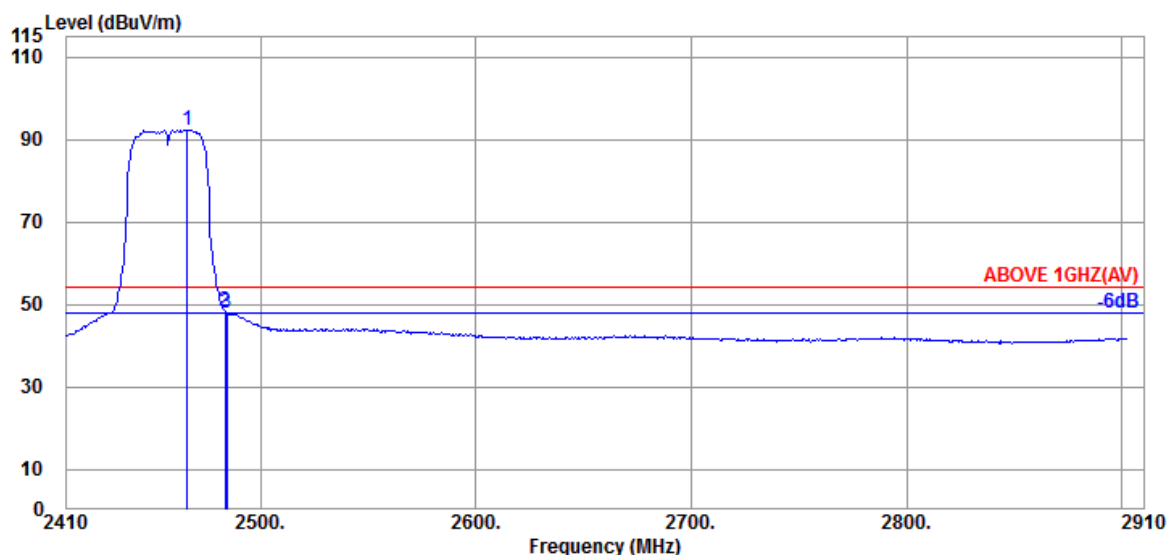
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Mode	802.11n-HT40	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2466.500	28.43	5.84	39.95	108.22	102.54	---	---	Peak
2483.500	28.47	5.87	39.94	65.99	60.39	74.00	13.61	Peak
2489.000	28.47	5.87	39.94	65.08	59.48	74.00	14.52	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2466.000	28.43	5.84	39.95	98.11	92.43	---	---	Average
2483.500	28.47	5.87	39.94	53.81	48.21	54.00	5.79	Average
2484.500	28.47	5.87	39.94	53.42	47.82	54.00	6.18	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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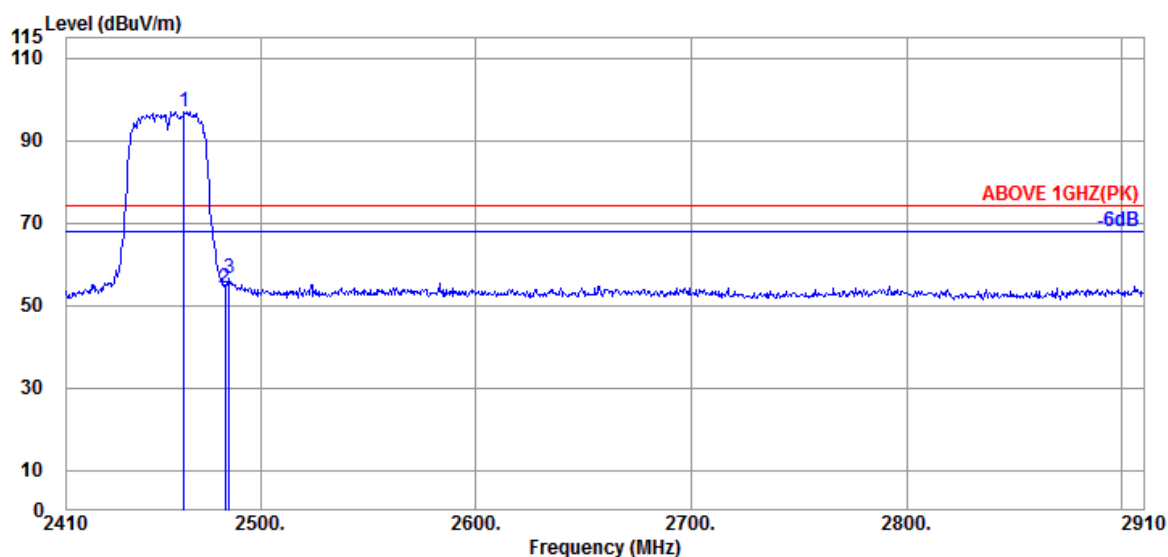
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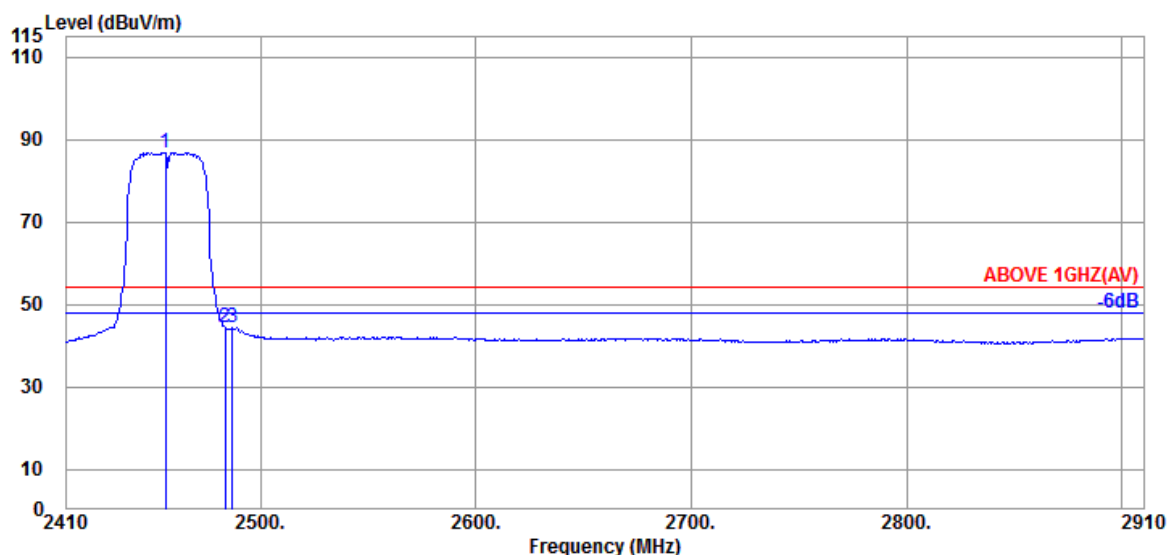
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Mode	802.11n-HT40	Frequency	TX 2457MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2464.500	28.43	5.84	39.95	102.67	96.99	---	---	Peak
2483.500	28.47	5.87	39.94	59.94	54.34	74.00	19.66	Peak
2485.500	28.47	5.87	39.94	62.17	56.57	74.00	17.43	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2456.000	28.41	5.83	39.95	92.63	86.92	---	---	Average
2483.500	28.47	5.87	39.94	50.04	44.44	54.00	9.56	Average
2487.000	28.47	5.87	39.94	49.84	44.24	54.00	9.76	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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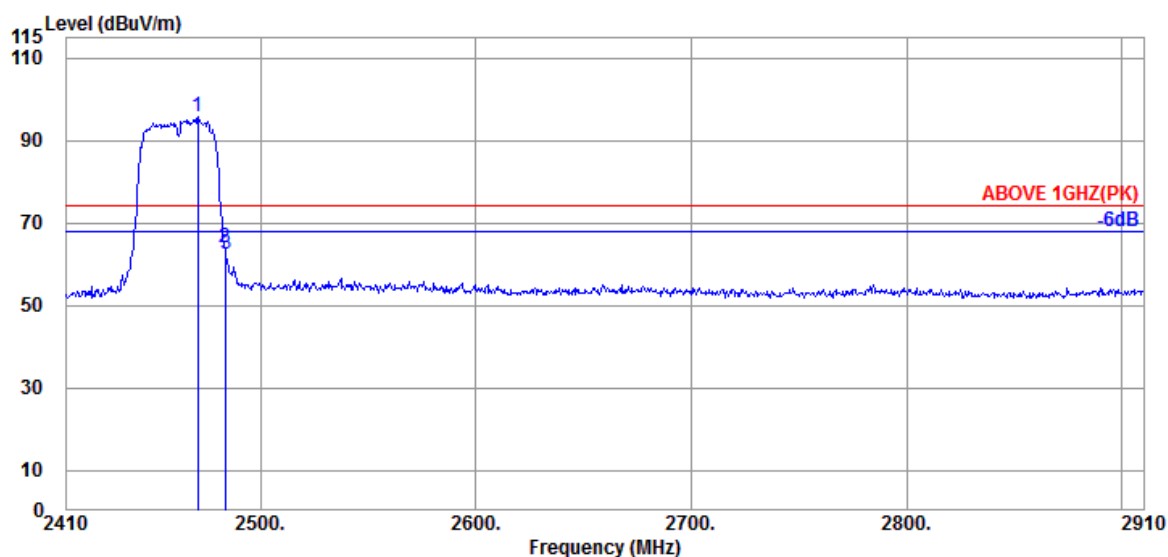
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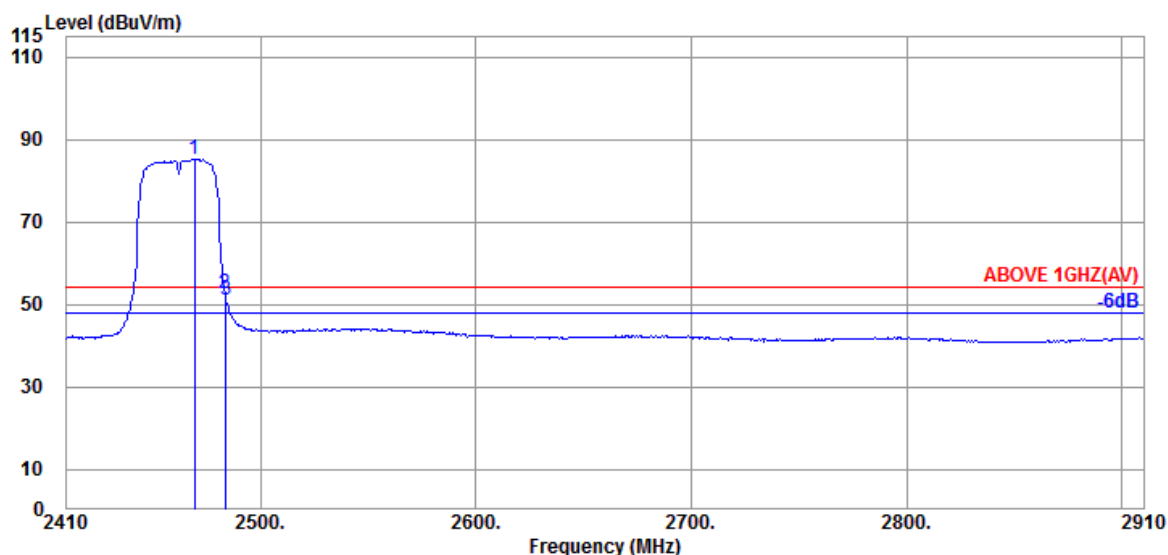
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Mode	802.11n-HT40	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2471.000	28.44	5.85	39.94	101.53	95.88	---	---	Peak
2483.500	28.47	5.87	39.94	69.59	63.99	74.00	10.01	Peak
2484.000	28.47	5.87	39.94	68.13	62.53	74.00	11.47	Peak



Antenna at Horizontal Polarization

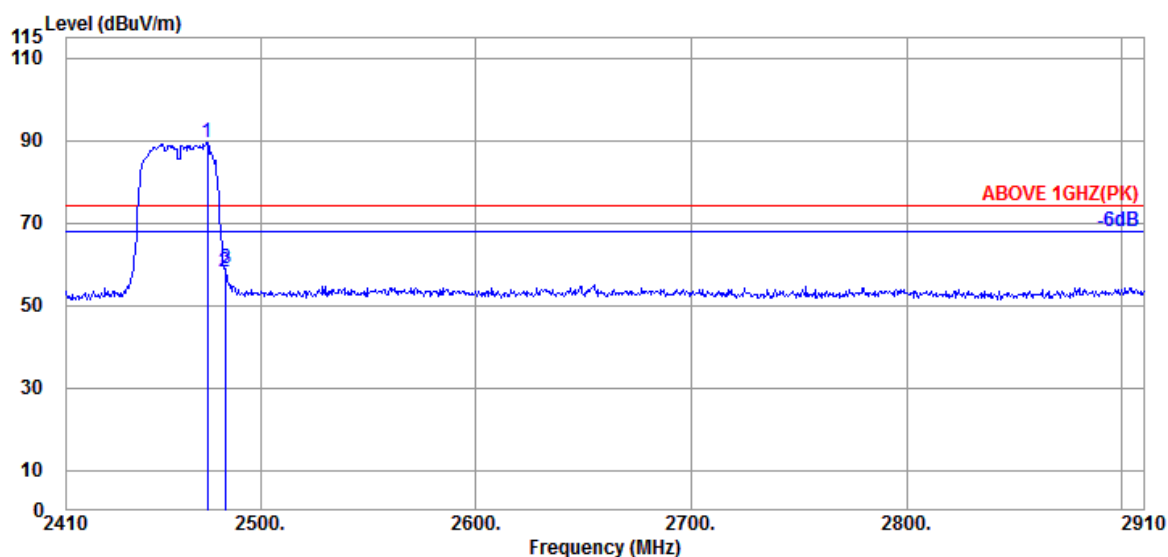
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2469.500	28.44	5.85	39.94	90.95	85.30	---	---	Average
2483.500	28.47	5.87	39.94	58.10	52.50	54.00	1.50	Average
2484.000	28.47	5.87	39.94	56.53	50.93	54.00	3.07	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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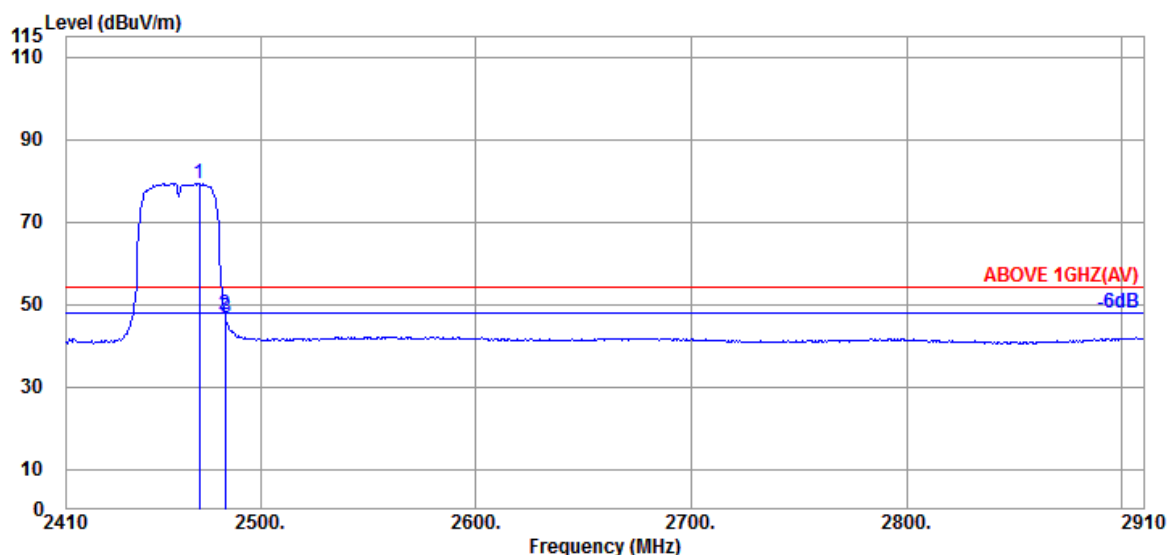
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Mode	802.11n-HT40	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2475.500	28.46	5.86	39.94	95.22	89.60	---	---	Peak
2483.500	28.47	5.87	39.94	63.73	58.13	74.00	15.87	Peak
2484.000	28.47	5.87	39.94	64.53	58.93	74.00	15.07	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2471.500	28.44	5.85	39.94	85.03	79.38	---	---	Average
2483.500	28.47	5.87	39.94	53.08	47.48	54.00	6.52	Average
2484.000	28.47	5.87	39.94	52.14	46.54	54.00	7.46	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

A.2.2 Emissions outside the frequency band:

The emissions (up to 25GHz) not reported for there is no emission be found.

Mode	802.11b	Frequency	TX 2442MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.20	8.64	39.35	44.93	47.42	54.00	6.58	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.20	8.64	39.35	45.89	48.38	54.00	5.62	Peak

Mode	802.11g	Frequency	TX 2442MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.20	8.64	39.35	40.02	42.51	54.00	11.49	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.20	8.64	39.35	40.68	43.17	54.00	10.83	Peak

Mode	802.11n-HT20	Frequency	TX 2417MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4834.000	33.17	8.57	39.37	39.50	41.87	54.00	12.13	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4834.000	33.17	8.57	39.37	40.76	43.13	54.00	10.87	Peak

Audix Technology Corp.

No. 491, Zhongfu Rd., Linkou Dist.,

New Taipei City 244, Taiwan

Tel: +886 2 26099301**Fax: +886 2 26099303**

Mode	802.11n-HT40	Frequency	TX 2427MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4854.000	33.20	8.61	39.36	39.47	41.92	54.00	12.08	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4854.000	33.20	8.61	39.36	39.61	42.06	54.00	11.94	Peak

Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

A.2.3 Emissions in Non-restricted Frequency Bands:

Pursuant to ANSI C63.10:2013 that emission levels below the FCC 15.209(a)/RSS-Gen Section 8.9 table 4 general radiated emissions limits is not required.