

FCC 15.247 & RSS-247 2.4 GHz Test Report

for

LG Electronics Inc.

**222, LG-ro Jinwi-myeon, Pyeongtaek-Si, Gyeonggi-Do,
451-713, Korea**

Product Name : Notebook Computer
Model Name : 17U70N
Brand : LG
FCC ID : BEJNT-17U70N
IC : 2703H-17U70N

**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.
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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TEST REPORT

Applicant : LG Electronics Inc.
Manufacturer : LG Electronics Inc.
Factory : DIGITEK (CHONGQING) LIMITED
EUT Description
(1) Product : Notebook Computer
(2) Model : 17U70N
(3) Brand : LG
(4) Power Supply: DC 19V

Applicable Standards:

47 CFR FCC Part 15 Subpart C
RSS-Gen (Issue 5), April 2018
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: 2020. 03. 12

Reviewed by:



(Tina Huang/Section Manager)

Approved by:



(Johnny Hsueh/Section Manager)



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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Data	Revision Summary	Report Number
0	2020. 03. 12	Original Report	EM-F200116

2. SUMMARY OF TEST RESULTS

Rule		Description	Data Reused	Results
FCC	IC			
15.207	RSS-Gen §8.8	Conducted Emission	No	PASS
15.247(d)/ 15.205	RSS-Gen §8.9 RSS-247 §5.5	Radiated Band Edge and Radiated Spurious Emission	No	PASS
15.247(a)(2)	RSS-247 §5.2(1)	6dB/Occupied Bandwidth	Yes	PASS
15.247(b)(3)	RSS-247 §5.4(4)	Maximum Peak Output Power	SPOT CHECK ^{Note 2}	PASS
15.247(d)	RSS-247 §5.5	Conducted Band Edges and Conducted Spurious Emission	Yes	PASS
15.247 (e)	RSS-247 §5.2(2)	Peak Power Spectral Density	Yes	PASS
15.203	RSS-Gen §8.3	Antenna Requirement	---	Compliance
Note: 1. The uncertainties value is not used in determining the result. 2. This device embedded with same radio transmitter with FCC ID: BEJNT-15Z90N grant on 11/29 2019 and IC: 2703H-15Z90N approved on 12/04/2019. According to KDB 484596 D01, we did spot check for output power and all output power values keep identical thus we reuse all results except to E.I.R.P. test items.				

3. GENERAL INFORMATION

3.1. Description of Application

Applicant	LG Electronics Inc. 222, LG-ro Jinwi-myeon, Pyeongtaek-Si, Gyeonggi-Do, 451-713, Korea
Manufacturer	LG Electronics Inc. 222, LG-ro Jinwi-myeon, Pyeongtaek-Si, Gyeonggi-Do, 451-713, Korea
Factory	DIGITEK (CHONGQING) LIMITED B01, Section C, Airport Function Zone, Lianglu Cuntan Free Trade Port Area, Yubei District, Chongqing City, China.
Product	Notebook Computer
Model	17U70N
Brand	LG

3.2. Description of EUT

Test Model	17U70N																												
Serial Number	N/A																												
Power Rating	DC 19V																												
Software Version	N/A																												
RF Features	WLAN: 802.11 a/b/g/n/ac/ax Bluetooth: BT and BLE (BT 5.0)																												
Transmit Type	<table><thead><tr><th colspan="2">2.4 GHz</th></tr></thead><tbody><tr><td>802.11b</td><td>1T1R</td></tr><tr><td>802.11g</td><td>1T1R</td></tr><tr><td>802.11n-HT20</td><td>2T2R</td></tr><tr><td>802.11n-HT40</td><td>2T2R</td></tr><tr><td>802.11ax-HE20</td><td>2T2R</td></tr><tr><td>802.11ax-HE40</td><td>2T2R</td></tr><tr><td>BT/BLE</td><td>1T1R</td></tr></tbody></table> <table><thead><tr><th colspan="2">UNII Bands</th></tr></thead><tbody><tr><td>802.11a</td><td>1T1R</td></tr><tr><td>802.11n-HT20/802.11ac-VHT20/802.11ax-HE20</td><td>2T2R</td></tr><tr><td>802.11n-HT40/802.11ac-VHT40/802.11ax-HE40</td><td>2T2R</td></tr><tr><td>802.11ac-VHT80/802.11ax-HE80</td><td>2T2R</td></tr><tr><td>802.11ac-VHT160/802.11ax-HE160</td><td>2T2R</td></tr></tbody></table> The MIMO is uncorrelated and supported SDM mode only.	2.4 GHz		802.11b	1T1R	802.11g	1T1R	802.11n-HT20	2T2R	802.11n-HT40	2T2R	802.11ax-HE20	2T2R	802.11ax-HE40	2T2R	BT/BLE	1T1R	UNII Bands		802.11a	1T1R	802.11n-HT20/802.11ac-VHT20/802.11ax-HE20	2T2R	802.11n-HT40/802.11ac-VHT40/802.11ax-HE40	2T2R	802.11ac-VHT80/802.11ax-HE80	2T2R	802.11ac-VHT160/802.11ax-HE160	2T2R
2.4 GHz																													
802.11b	1T1R																												
802.11g	1T1R																												
802.11n-HT20	2T2R																												
802.11n-HT40	2T2R																												
802.11ax-HE20	2T2R																												
802.11ax-HE40	2T2R																												
BT/BLE	1T1R																												
UNII Bands																													
802.11a	1T1R																												
802.11n-HT20/802.11ac-VHT20/802.11ax-HE20	2T2R																												
802.11n-HT40/802.11ac-VHT40/802.11ax-HE40	2T2R																												
802.11ac-VHT80/802.11ax-HE80	2T2R																												
802.11ac-VHT160/802.11ax-HE160	2T2R																												
Sample Status	Mass production																												
Date of Receipt	2020. 03. 04																												
Date of Test	2020. 03. 05 ~ 11																												
Interface Ports of EUT	• One Micro SD Card Slot • One Earphone Port • Two USB 3.0 Ports • One USB 2.0 Port • One USB Type C Port • One HDMI Port • One LAN Port • One DC Input Port																												
Accessories Supplied	• AC Adapter																												

3.3. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)
1.	SJ17W Main Antenna (Main)	Hua Cheng (HTK)	PIFA	2400~2500	-2.63
				5150~5850	0.85
	SJ17W Aux Antenna (AUX)	Hua Cheng (HTK)	PIFA	2400~2500	-1.40
				5150~5850	-1.28
2	SJ17W_WLAN MAN ANT_HF Antenna (Main)	ACON (Advanced Wireless & Antenna Inc.)	PIFA	2400~2500	-3.05
				5150~5850	0.36
	SJ17W_WLAN AUX ANT_HF Antenna (AUX)	ACON (Advanced Wireless & Antenna Inc.)	PIFA	2400~2500	-2.85
				5150~5850	-1.47

3.4. UT 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 144.4
802.11n-HT40	2422-2462	9	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 300
802.11ax-HE20	2412-2472	13	OFDMA (BPSK/ QPSK/ 16QAM/ 64QAM/ 256QAM/1024QAM)	Up to 287
802.11ax-HE40	2422-2462	9		Up to 574
BLE	2402-2480	40	GFSK (1M, 2M, PHY Coded S8, PHY Coded S2)	Up to 2

Channel List			
802.11 b/g/n-HT20/ax-HE20		802.11n-HT40/ax-HE40	
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		

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Channel List							
BLE							
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
37	2402	09	2422	18	2442	28	2462
00	2404	10	2424	19	2444	29	2464
01	2406	38	2426	20	2446	30	2466
02	2408	11	2428	21	2448	31	2468
03	2410	12	2430	22	2450	32	2470
04	2412	13	2432	23	2452	33	2472
05	2414	14	2434	24	2454	34	2474
06	2416	15	2436	25	2456	35	2476
07	2418	16	2438	26	2458	36	2478
08	2420	17	2440	27	2460	39	2480

RMS Output Power (dBm)						
Channel	802.11b	802.11g	802.11n-HT20	802.11ax-HE20	802.11n-HT40	802.11ax-HE40
1	19.35	16.91	17.13	17.03	---	---
2	19.96	17.94	18.43	18.26		
3	20.01	18.02	18.38	18.28	16.83	16.69
4	19.98	17.99	18.41	18.31	15.78	15.56
5	19.99	17.92	18.43	18.34	15.83	15.64
6	20.1	18.06	18.48	18.35	15.74	15.52
7	20.04	19.74	20.15	20.05	17.63	17.46
8	20.00	18.24	18.68	18.54	17.77	17.58
9	19.98	18.18	18.64	18.52	16.19	15.99
10	20.02	18.21	18.60	18.49	12.49	12.27
11	19.08	17.47	17.74	17.64	4.01	3.63
12	18.18	14.79	14.91	14.80	---	---
13	13.08	1.52	2.58	2.5		

3.5. Descriptions of Key Components

3.5.1. For the All Component Lists

Item	Supplier	Model / Type	Character
System	Microsoft	Win10 Home	---
	Microsoft	Win10 Pro	---
Main Board	LG	SJ17C MB	---
SUB Board	LG	SJ17C IO BD	---
CPU (Socket:FCBGA1528)	Intel	i3-10110U	2.1GHz, up to 4.1GHz
		i5-10210U	1.6GHz, up to 4.2GHz
		i7-10510U	1.8GHz, up to 4.9GHz
GPU	NVIDIA	N18P-G0-MP-A1	--
17" LCD Panel	LG Display	LP170WQ1(SP)(A1)	Resolution: 2560 x 1600, 60Hz WQXGA IPS (Normal Non touch)
Storage (SSD) (Max. 2 pcs)	Samsung	MZVLB256HAHQ-00000	NVMe, 256GB
		MZVLB256HBHQ-00000	NVMe,256GB
		MZVLB512HBHQ-00000	NVMe,512GB
	WD	SDASN8Y-256G-1009	SATA, 256GB
		SDASN8Y-512G-1009	SATA, 512GB
Memory (RAM) (on Board)	SK hynix	H5GC8H24AJR-R2C	GDDR5 256Mb*32
	Micro	MT51J256M32HF	GDDR5 256Mb*32
Memory (RAM) (on card)	Samsung	HMA81GS6CJR8N-VKN0	8GB DDR4 SODIMM
		HMA851S6CJR6N-VKN0	4GB DDR4 SODIMM
	SK hynix	M471A1K43CB1-CTD	8GB DDR4 SODIMM (on Card)
		M471A5244CB0-CTD	4GB DDR4 SODIMM
Battery Pack	LG	LBS1224E	72Wh, DC7.7V, 9450mAh
WLAN Combo Card	Intel	AX201D2W	WWLAN and BT, 2x2 CNVi 1216 FCC ID: PD9AX201D2 IC: 1000M-AX201D2
WLAN Combo Antenna	ACON (Advanced Wireless & Antenna Inc.)	SJ17W_WLAN MAN ANT_HF Antenna	PIFA Type Main: Black, Aux: White
		SJ17W_WLAN AUX ANT_HF Antenna	
	Hua Cheng (HTK)	SJ17W Main Antenna	PIFA Type Main: Black, Aux: White
		SJ17W Aux Antenna	
Click Pad	ELAN	SB876A-26H0	--
	LITEON	SG-96010-00A	--

Item	Supplier	Model / Type	Character
Web Camera	Chicony	CKFIH3421005110LH	With two microphones
AC Adapter	Chicony	A15-120P1A	I/P: AC 100-240V, 50-60Hz, 2.0A, O/P: DC 19V, 6.32A, 120W
	Chicony	A12-065N2A	I/P: AC 100-240V, 50-60Hz, 1.7A, O/P: DC 19V, 3.42A, 65W
	DC Power Cord: Non-Shielded, Undetached, 1.8m, bonded a ferrite core AC Power Cord: Non-Shielded, Detached, 1m (3C)		

Remark: For more detailed features description, please refer to the manufacturer's specifications or the user manual.

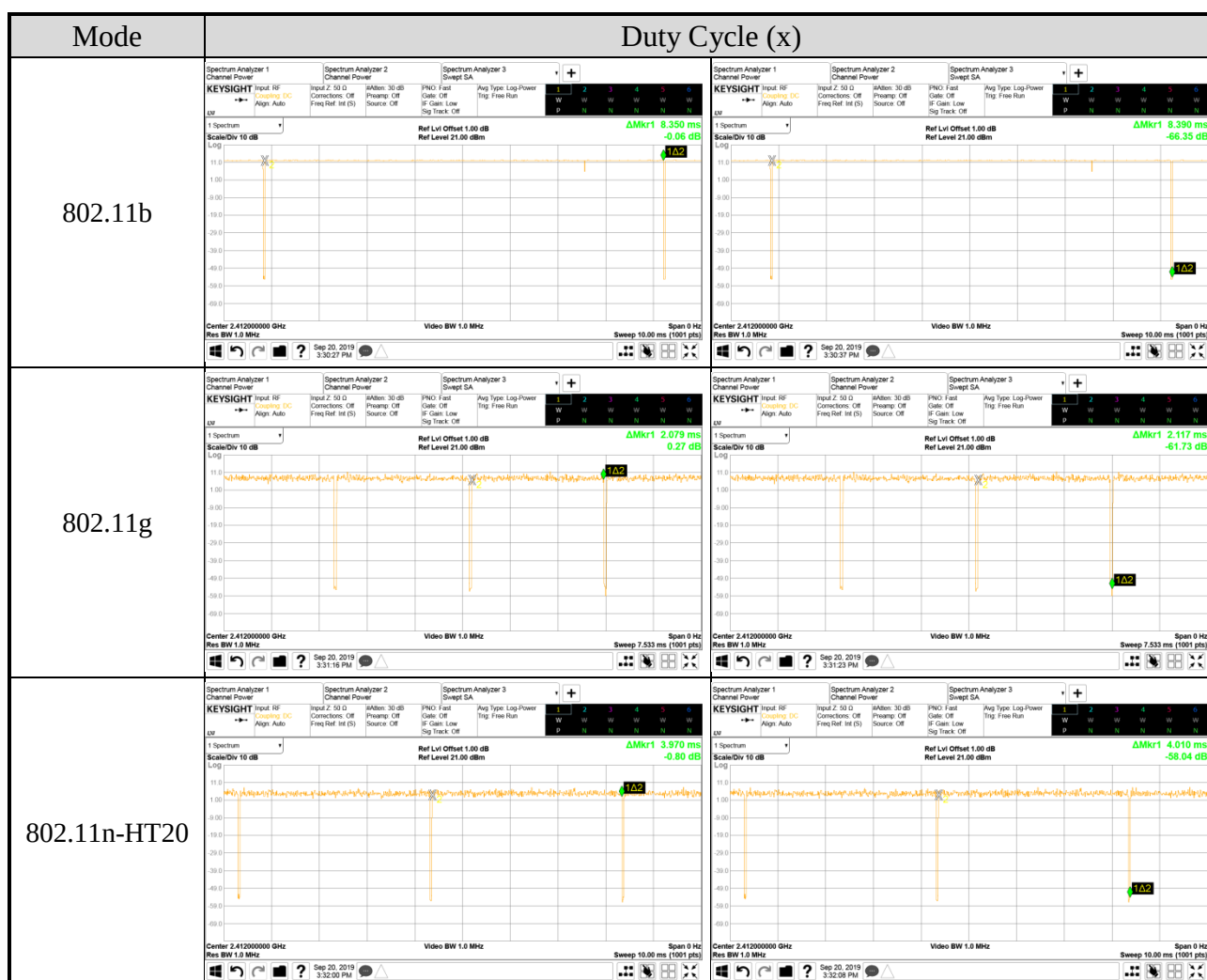
3.5.2. The EUT collocates with following worst components, which are used to establish a basic configuration of system during test:

SKU		1	2
System	Microsoft, Win10 Home	V	V
Main Board	LG, SJ17C MB	V	V
SUB Board	LG, SJ17C IO BD	V	V
CPU	Intel, i7-10510U	V	
	Intel, i5-10210U		V
GPU	NVIDIA, N18P-G0-MP-A1	V	
17" LCD Panel	LG Display, LP170WQ1(SP)(A1)	V	V
Storage (SSD)	Samsung, MZVLB256HAHQ-00000, 256GB	V	V
	Samsung, MZVLB512HBJQ-00000, 512GB	V	
Memory (RAM) (on Board)	SK hynix, GDDR5 256Mb*32	V	
Memory (RAM) (on Card)	Samsung, 4GB		V
	Samsung, 8GB x2	V	
	SK hynix, 4GB		V
Battery Pack	LG, LBS1224E	V	V
WLAN Combo Card	Intel, AX201D2W	V	V
WLAN Combo Antenna	ACON (Advanced Wireless & Antenna Inc.), Main & AUX		V
	Hua Cheng (HTK), Main & AUX	V	
Click Pad	ELAN, SB876A-26H0	V	V
Web Camera	Chicony, CKFIH3421005110LH	V	V
AC Adapter	Chicony, A15-120P1A	V	
	Chicony, A12-065N2A		V

3.6. Test Configuration

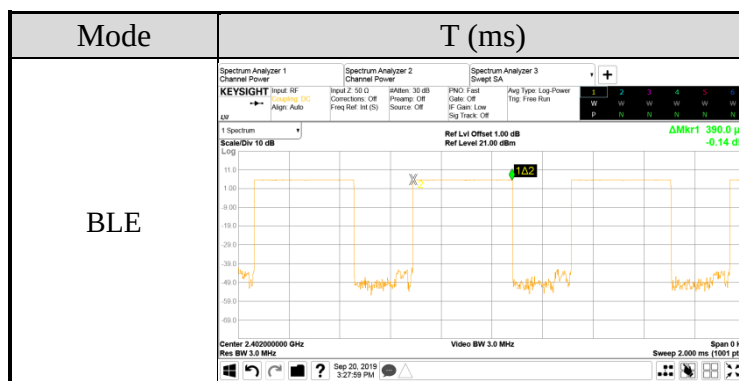
Mode	Duty Cycle (x)	T (ms)	Duty Cycle Factor (dB)
802.11b	1.00	8.35	N/A
802.11g	0.98	2.079	N/A
802.11n-HT20	0.99	3.97	N/A
802.11n-HT40	0.99	3.96	N/A
802.11ax-HE20	0.99	3.95	N/A
802.11ax-HE40	0.98	3.93	N/A
BLE	---	0.390	---

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



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AC Conduction	
SKU #1	Normal operation (with A15-120P1A ADP)
SKU #2	Normal operation (with A12-065N2A ADP)

Item	Mode	Data Rate	Test Channel
Radiated Test Case	Radiated Band Edge ^{Note1 & 5}	802.11b	1Mbps
		802.11g	6Mbps
		802.11n-HT20	MCS8
		802.11n-HT40	MCS8
		802.11ax-HE20	HE0
		802.11ax-HE40	HE0
		BLE	1Mbps
	Radiated Spurious Emission ^{Note1 & 2 & 5}	802.11b	1Mbps
		802.11g	6Mbps
		802.11n-HT20	MCS8
		802.11n-HT40	MCS8
		802.11ax-HE20	HE0
		802.11ax-HE40	HE0
		BLE	1Mbps

Item	Mode	RU Config	Test Channel
Radiated Test Case	Radiated Band Edge ^{Note1 & 5}	802.11ax-HE20	26/0
		802.11ax-HE20	52/37
		802.11ax-HE20	106/53
		802.11ax-HE20	26/8
		802.11ax-HE20	52/40
		802.11ax-HE20	106/54
	802.11ax-HE40	802.11ax-HE40	242/61
		802.11ax-HE40	242/62

Item		Mode	Data Rate	Test Channel
Conducted Test Case	6dB/Occupied Bandwidth (Data Reused)	802.11b	1Mbps	1/7/11/13
		802.11g	6Mbps	1/7/11/13
		802.11n-HT20	MCS8	1/7/11/13
		802.11n-HT40	MCS8	3/7/9/11
		802.11ax-HE20	HE0	1/7/11/13
		802.11ax-HE40	HE0	3/7/9/11
		BLE	1Mbps	37/17/39
	Peak Output Power (SPOT Check)	802.11b	1Mbps	1/2/7/10/11/12/13
		802.11g	6Mbps	1/2/7/10/11/12/13
		802.11n-HT20	MCS8	1/2/7/10/11/12/13
		802.11n-HT40	MCS8	3/4/7/8/9/10/11
		802.11ax-HE20	HE0	1/2/7/10/11/12/13
		802.11ax-HE40	HE0	3/4/7/8/9/10/11
		BLE	1Mbps	37/17/39
			2Mbps	37/17/39
			PHY Coded S2	37/17/39
			PHY Coded S8	37/17/39
	Band Edge (Data Reused)	802.11b	1Mbps	1/11/13
		802.11g	6Mbps	1/11/13
		802.11n-HT20	MCS8	1/11/13
		802.11n-HT40	MCS8	3/9/11
		802.11ax-HE20	HE0	1/11/13
		802.11ax-HE40	HE0	3/9/11
		BLE	1Mbps	37/39
	Spurious Emission (Data Reused)	802.11b	1Mbps	1/7/11/13
		802.11g	6Mbps	1/7/11/13
		802.11n-HT20	MCS8	1/7/11/13
		802.11n-HT40	MCS8	3/7/9/11
		802.11ax-HE20	HE0	1/7/11/13
		802.11ax-HE40	HE0	3/7/9/11
		BLE	1Mbps	37/17/39
	Peak Power Spectral Density (Data Reused)	802.11b	1Mbps	1/7/11/13
		802.11g	6Mbps	1/7/11/13
		802.11n-HT20	MCS8	1/7/11/13
		802.11n-HT40	MCS8	3/7/9/11
		802.11ax-HE20	HE0	1/7/11/13
		802.11ax-HE40	HE0	3/7/9/11
		BLE	1Mbps	37/17/39

Item		Mode	Data Rate	RU Configuration	Test Channel
Conducted Test Case	6dB/Occupied Bandwidth (Data Reused)	802.11ax-HE20	HE0	26/0	1
				52/37	
				106/53	
		802.11ax-HE40	HE0	26/8	13
				52/40	
				106/54	
	Peak Output Power (SPOT Check)	802.11ax-HE20	HE0	242/61	3
				242/62	11
		802.11ax-HE40	HE0	26/0	1
				52/37	
				106/53	
	Peak Power Spectral Density (Data Reused)	802.11ax-HE20	HE0	26/8	13
				52/40	
				106/5	
		802.11ax-HE40	HE0	242/61	3
				242/62	11

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.

Note 3: The modulation and bandwidth are similar for 802.11n mode for HT20/HT40 and 802.11ac mode for VHT20/VHT40, therefore investigated worst case to representative mode in the test report.

Note 4: The data rates were selected based on preliminary testing that identified those rate as the worst case for output power.

Note 5: Both of the antennas are the same type, we performed testing of the highest antenna gain SKU #1 (with HTK Antenna).

3.7. Tested Supporting System List

3.7.1. Support Peripheral Unit

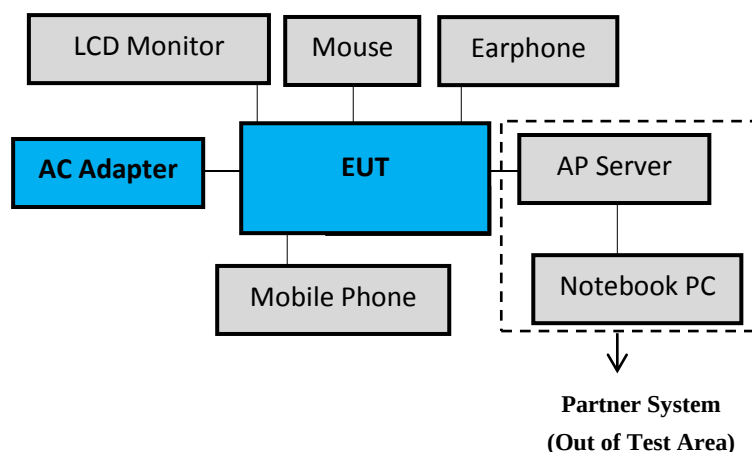
No.	Product	Brand	Model No.	Serial No.	Approval
1.	LCD Monitor	LG	22LK330-DB	N/A	N/A
2.	USB Mouse	hp	N910U	N/A	FCC By DoC
3.	Earphone	APPLE	N/A	N/A	N/A
4.	Mobile Phone	APPLE	A2097	N/A	NCC ID: CCAI184G0070T9
5.	Memory Card	Apacer	N/A	N/A	FCC By DoC
Partner System					
6.	AP Server	D-Link	DIR-868L	R3WE1D7002319	FCC ID: KA2IR868LA1
					Contains FCC ID: RRK2012060056-1
7.	Notebook PC	Lenovo	TP00034A	895097	FCC By DoC

3.7.2. Cable Lists

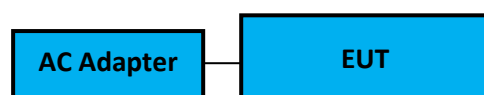
No.	Cable Description Of The Above Support Units
1.	HDMI Cable: Shielded, Detachable, 1.5m AC Power Cord: Unshielded, Detachable, 1.8m
2.	USB Cable: Unshielded, Undetachable, 1.8m
3.	Earphone Cable: Unshielded, Undetachable, 0.9m
4.	USB Type C to lightning Cable: Shielded, Detachable, 1.0m
5.	N/A
6.	AC adapter: M/N:WA-30B12, Cable: Unshielded, Detachable, 1.2m LAN cable: Unshielded, Detachable, 3.0m
7.	LAN cable: Unshielded, Detachable, 1.8m

3.8. Setup Configuration

3.8.1. EUT Configuration for Power Line & Radiated Emission Test Items



3.8.2. EUT Configuration for RF Conducted & Radiated Emission Test Items



3.9. Operating Condition of EUT

Test program “DRTU” is used for enabling EUT BT or WLAN function under continues transmitting and choosing data rate/ channel.

[Chain 0 is aux port (A Button in DRTU) Chain 1 is main port (B Button in DRTU)].

3.10. Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 53-11, Dingfu, 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.8 Shielded Room (2) No.1 3m Semi Anechoic Chamber (3) Fully Anechoic Chamber

3.11.Measurement Uncertainty

Test Items/Facilities		Frequency Range	Uncertainty
Conduction Test		9kHz-150kHz	±3.7dB
		150kHz-30MHz	±3.5dB
Radiation Test	No.1 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.1dB
		200MHz-1000MHz, 3m, Horizontal	±3.9dB
		30MHz-200MHz, 3m, Vertical	±4.2dB
		200MHz-1000MHz, 3m, Vertical	±4.1dB
		1GHz-6GHz, 3m	±4.2dB
		6GHz-18GHz, 3m	±4.6dB
	No.3 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
		200MHz-1000MHz, 3m, Horizontal	±3.9dB
		30MHz-200MHz, 3m, Vertical	±4.4dB
		200MHz-1000MHz, 3m, Vertical	±4.1dB
	No.4 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.3dB
		200MHz-1000MHz, 3m, Horizontal	±4.0dB
		30MHz-200MHz, 3m, Vertical	±4.3dB
		200MHz-1000MHz, 3m, Vertical	±4.4dB
		1GHz-6GHz, 3m	±4.5dB
		6GHz-18GHz, 3m	±4.6dB
	No.5 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.0dB
		200MHz-1000MHz, 3m, Horizontal	±3.9dB
		30MHz-200MHz, 3m, Vertical	±4.2dB
		200MHz-1000MHz, 3m, Vertical	±4.3dB
		1GHz-6GHz, 3m	±4.3dB
		6GHz-18GHz, 3m	±4.7dB
	Fully Anechoic Chamber	30MHz~1000MHz	±4.7dB
		1GHz~18GHz	±5.3dB

Remark : Uncertainty = $ku_c(y)$

Test Item	Uncertainty
6dB 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	ESR3	101774	2020. 02. 04	1 Year
2.	A.M.N.	R&S	ENV4200	100169	2019. 11. 13	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-855-9	2019. 12. 10	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	100354	2020. 01. 05	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.8 S/R	2019. 04. 20	1 Year
6.	Coaxial Cable	Yeida	RG/58AU	CE-08	2019. 09. 20	1 Year
7.	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-507	MY52220264	2019. 08. 07	1 Year
2.	Spectrum Analyzer	Agilent	N9030A-526	MY53310269	2020. 01.16	1 Year
3.	Test Receiver	R&S	ESCS30	100338	2019. 06.12	1 Year
4.	Amplifier	HP	8447D	2944A06305	2020. 01. 16	1 Year
5.	Amplifier	HP	8449B	3008A02678	2020. 02. 27	1 Year
6.	Amplifier	Keysight	83051A	MY53010042	2019. 08. 08	1 Year
7.	Loop Antenna	R&S	HFH2-Z2	891847/27	2019. 12. 26	2 Years
8.	Bilog Antenna	TESEQ	CBL6112D	33821	2020. 01. 17	1 Year
9.	Horn Antenna	EMCO	3115	9609-4927	2019. 06. 24	1 Year
10.	Horn Antenna	COM-POWER	AH-840	101092	2019 .05. 14	1 Year
11.	2.4GHz Notch Filter	K&L	7NSL10-2441 .5/E130.5-O/ O	1	2019. 07. 24	1 Year
12.	3GHz Notch Filter	Microwave	H3G018G1	484796	2019. 08. 21	1 Year
13.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2020. 01. 31	1 Year
14.	Coaxial Cable	HUBER+SU HNER	SUCOFLEX 104	RF CABLE-01	2019. 09. 20	1 Year
15.	Coaxial Cable	HUBER+ SUHNER	SUCOFLEX 102	No.1 18-40GHz Cable	2019. 09. 20	1 Year
16.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2019. 04. 20	1 Year
17.	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	N9020B-544	MY57120357	2019. 01. 17	1 Year
2.	Power Meter	Anritsu	ML2495A	1145008	2019. 11. 06	1 Year
3.	Power Sensor	Anritsu	MA2411B	1126096	2019. 11. 06	1 Year
4.	Digital Thermo-Hygro Meter	Shenzhen Datronn Electronics	KT-905	RF	2019. 04. 20	1 Year

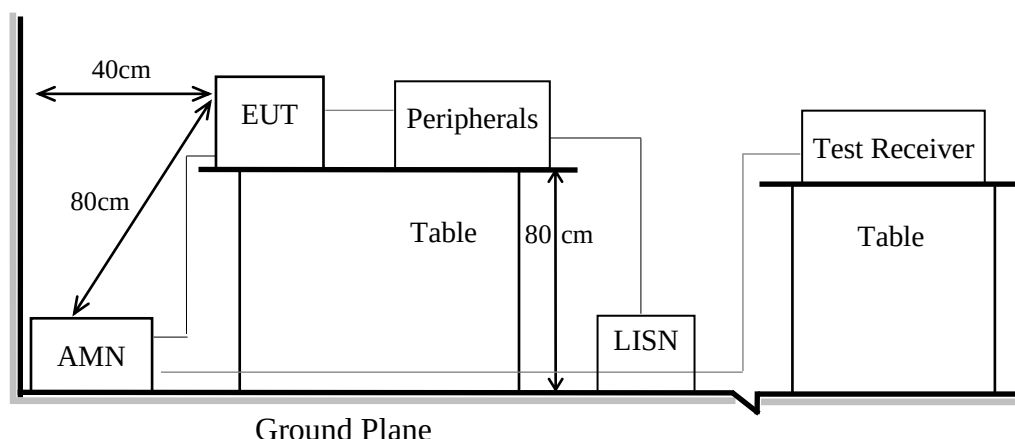
5. CONDUCTED EMISSION

5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of EUT

Indicated as section 3.8

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

Remark 1.: 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 150 kHz to 30 MHz and record the emission which does not have 20 dB below limit.

5.4. Test Results

Please refer to Appendix A.

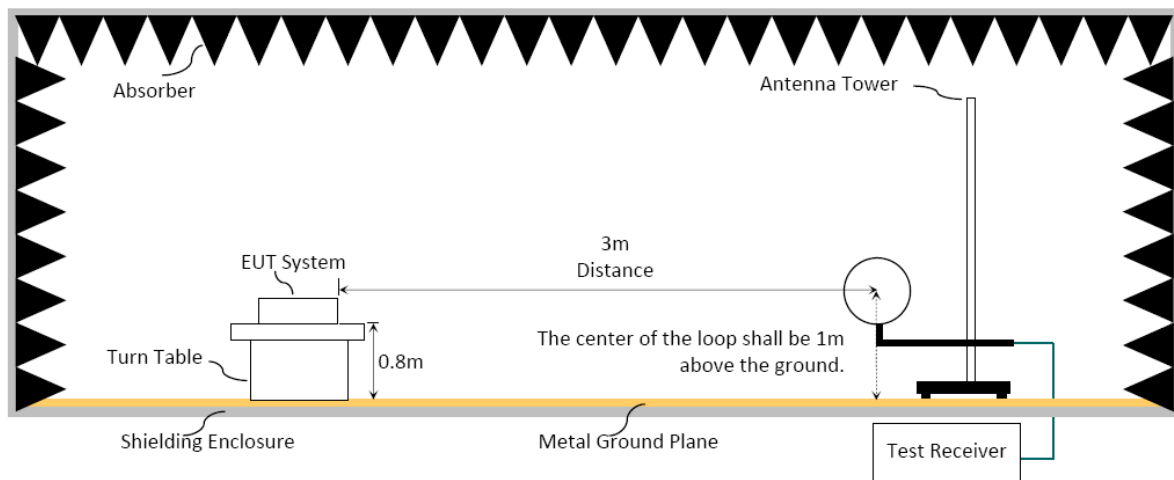
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

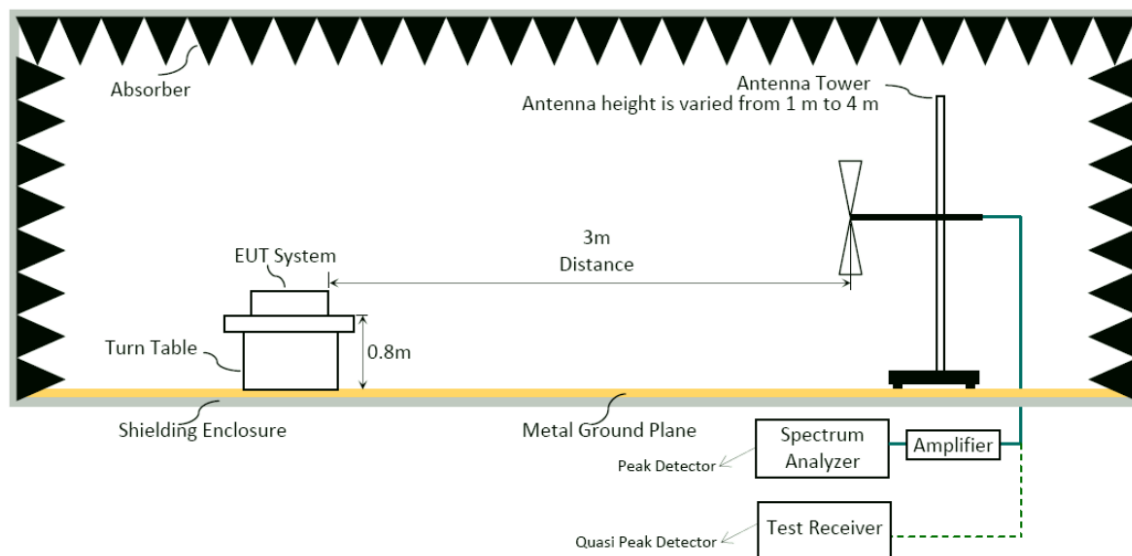
6.1.1. Block Diagram of EUT

Indicated as section 3.8

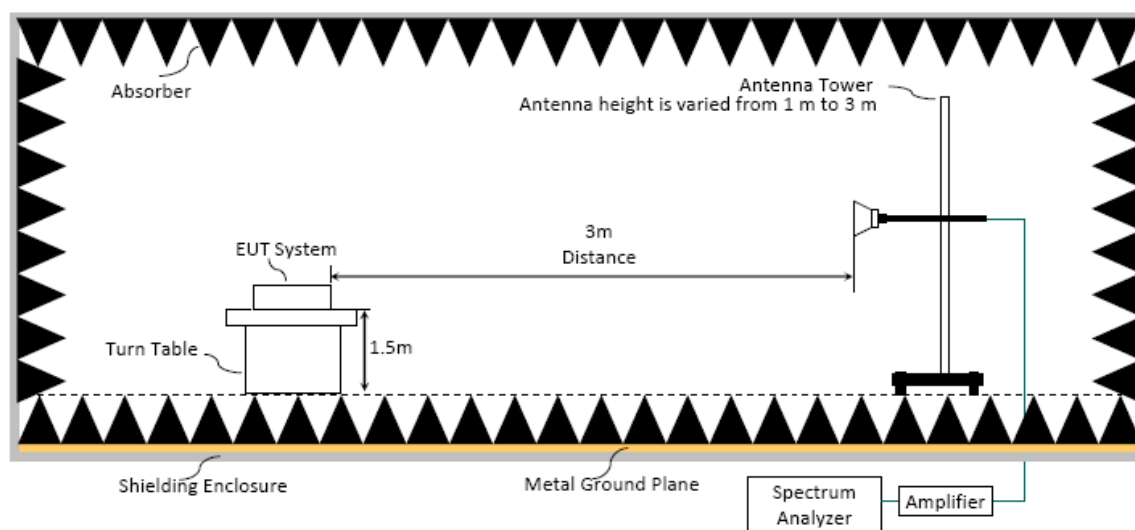
6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30-1000 MHz



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	
		dB μ V/m	μ V/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 dB μ V/m (Peak) 54.0 dB μ V/m (Average)	

Remark : (1) dB μ V/m = 20 log (μ 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 turn table 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 (for 30-1000MHz) and from 1m to 3m (for above 1GHz) 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 1 GHz:

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)
BLE	0.90	1.111111	10Hz
802.11b	8.35	0.119760	10Hz
802.11g	2.079	0.481000	10Hz
802.11n-HT20	3.97	0.251889	10Hz
802.11n-HT40	3.96	0.252525	10Hz
802.11ax-HE20	3.95	0.253165	10Hz
802.11ax-HE40	3.93	0.254453	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:

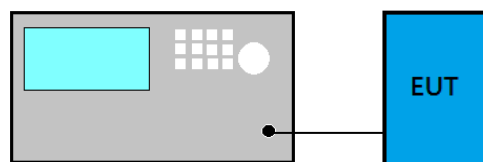
Average Emission Level = Peak Emission Level + D.C.C.F.

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 + DCCFDuty 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. 6dB/OCCUPIED BANDWIDTH

7.1. Block Diagram of Test Setup



7.2. Specification Limits

The minimum 6dB bandwidth shall be at least 500kHz.

7.3. Test Procedure

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

- (1) Set RBW = 100 kHz.
- (2) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Trace mode = max hold.
- (5) Sweep = auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x to -6dB or 99% power to record the final bandwidth.

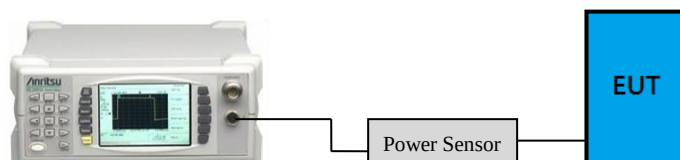
7.4. Test Results

Please refer to Appendix A

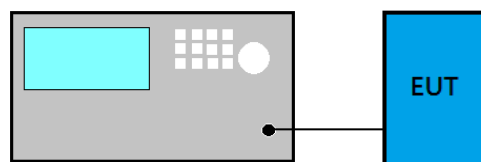
8. MAXIMUM PEAK OUTPUT POWER

8.1. Block Diagram of Test Setup

- For WLAN Function



- For BLE Function



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)

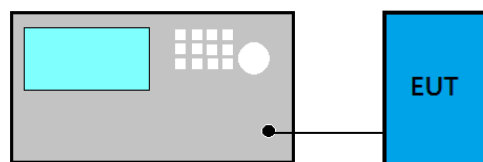
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 -5% of OBW
- (3) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the 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

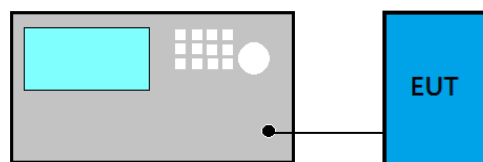
- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: 100 kHz.
- (4) Set the VBW $\geq 3 \times$ RBW.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully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



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11.DEVIATION TO TEST SPECIFICATIONS

【NONE】



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APPENDIX A

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APPDNDIX A

TEST DATA AND PLOTS

(Model: 17U70N)

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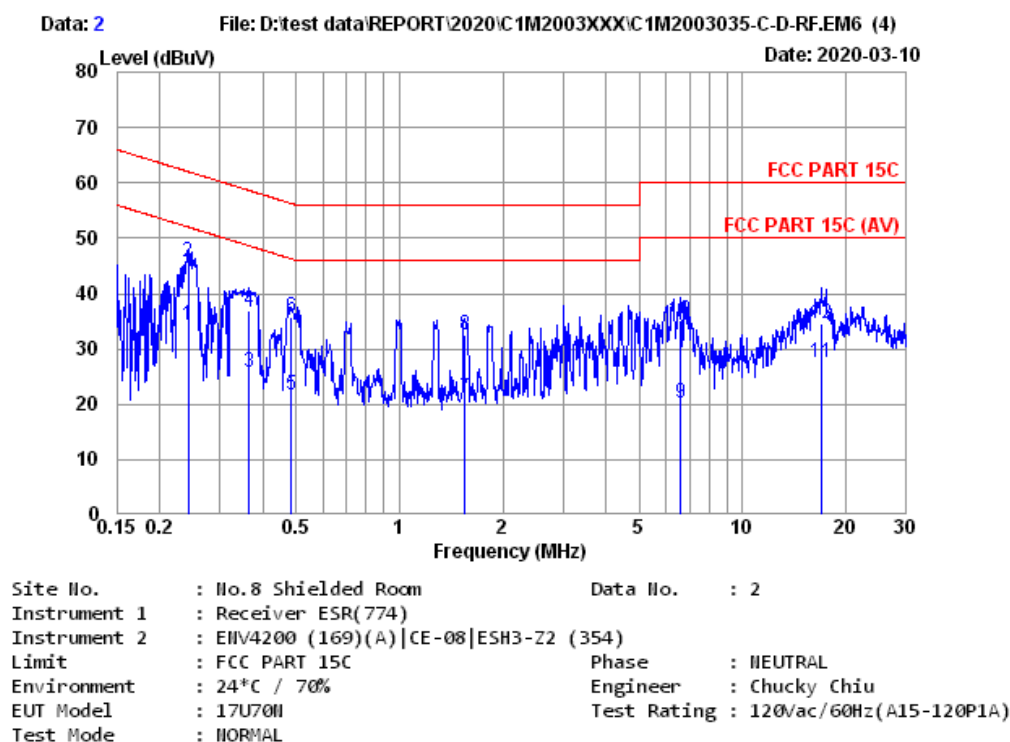
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A.1 CONDUCTED EMISSION

Test Date	2020/03/10	Temp./Hum.	24°C/70%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu
Test SKU	SKU #1		



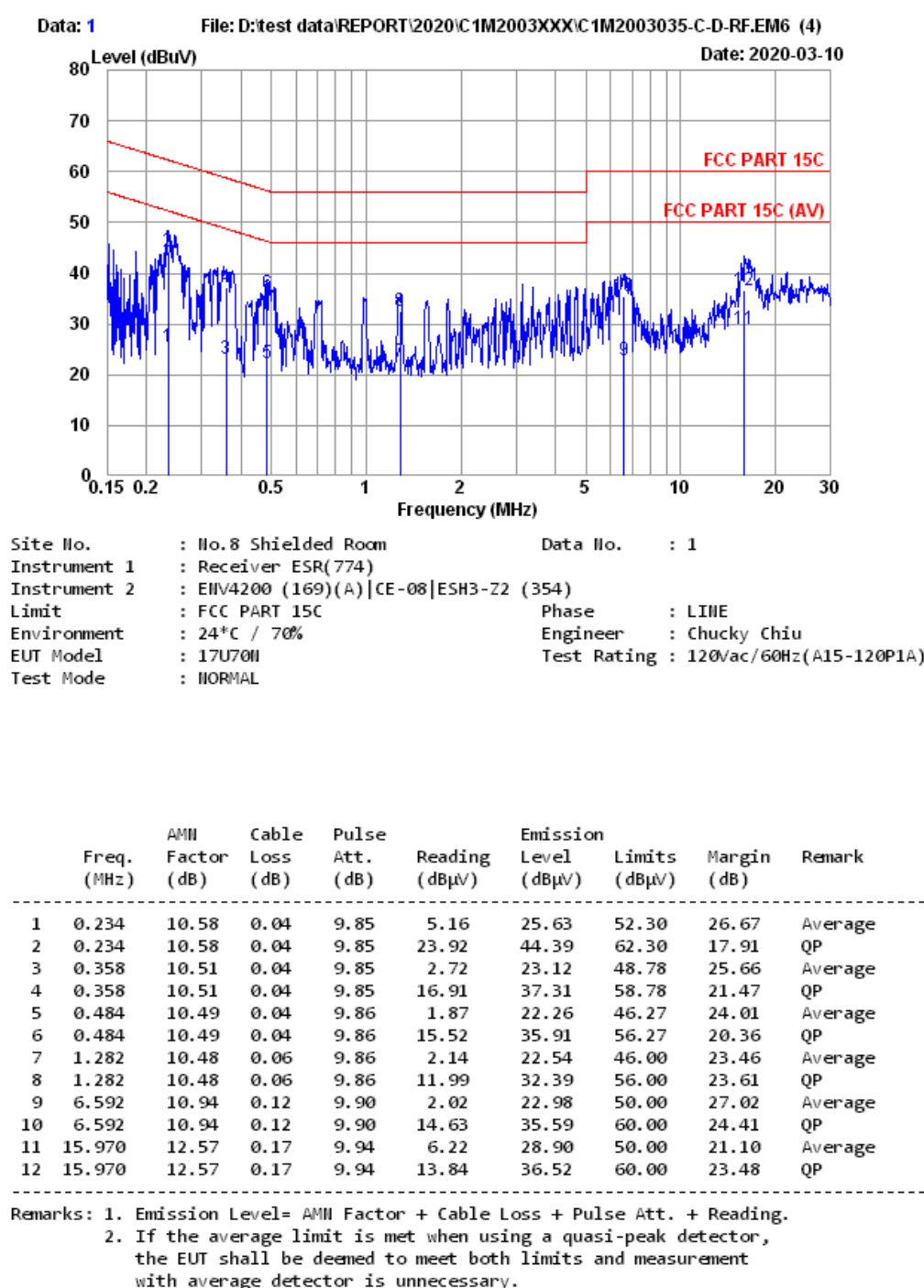
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.242	10.61	0.04	9.85	13.73	34.23	52.04	17.81	Average
2	0.242	10.61	0.04	9.85	25.18	45.68	62.04	16.36	QP
3	0.365	10.54	0.04	9.85	5.39	25.82	48.61	22.79	Average
4	0.365	10.54	0.04	9.85	16.53	36.96	58.61	21.65	QP
5	0.484	10.52	0.04	9.86	1.37	21.79	46.27	24.48	Average
6	0.484	10.52	0.04	9.86	15.30	35.72	56.27	20.55	QP
7	1.552	10.53	0.06	9.86	0.60	21.05	46.00	24.95	Average
8	1.552	10.53	0.06	9.86	11.95	32.40	56.00	23.60	QP
9	6.592	11.09	0.12	9.90	-0.78	20.33	50.00	29.67	Average
10	6.592	11.09	0.12	9.90	14.10	35.21	60.00	24.79	QP
11	16.928	13.10	0.17	9.95	4.22	27.44	50.00	22.56	Average
12	16.928	13.10	0.17	9.95	11.28	34.50	60.00	25.50	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.

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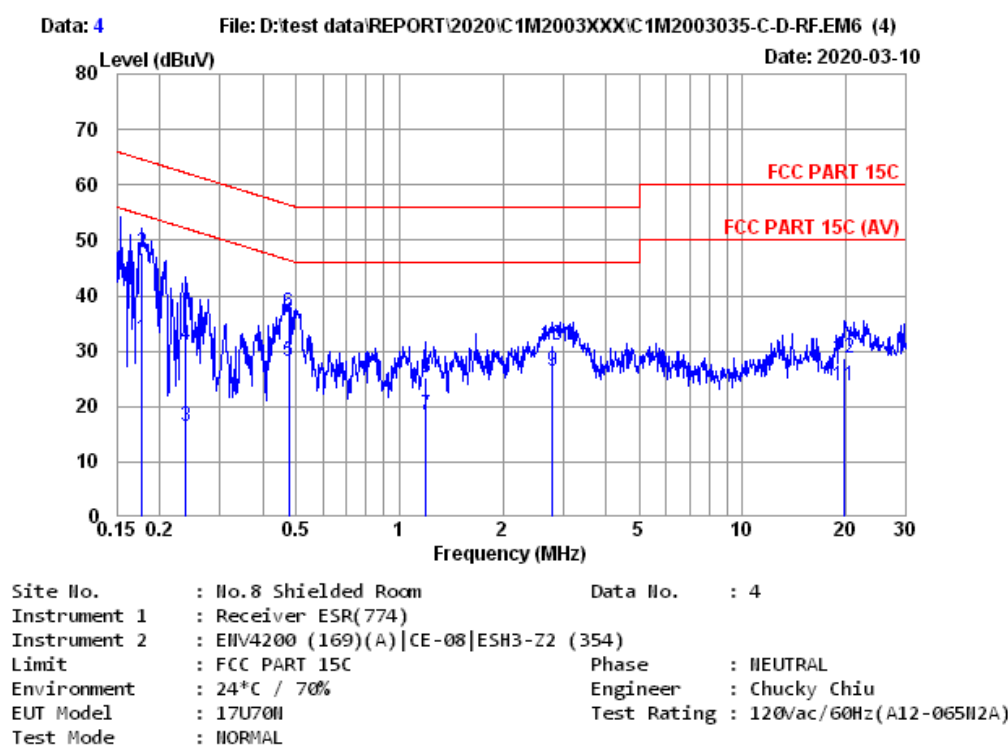
Test Date	2020/03/10	Temp./Hum.	24°C/70%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu
Test SKU	SKU #1		



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Test Date	2020/03/10	Temp./Hum.	24°C/70%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu
Test SKU	SKU #2		



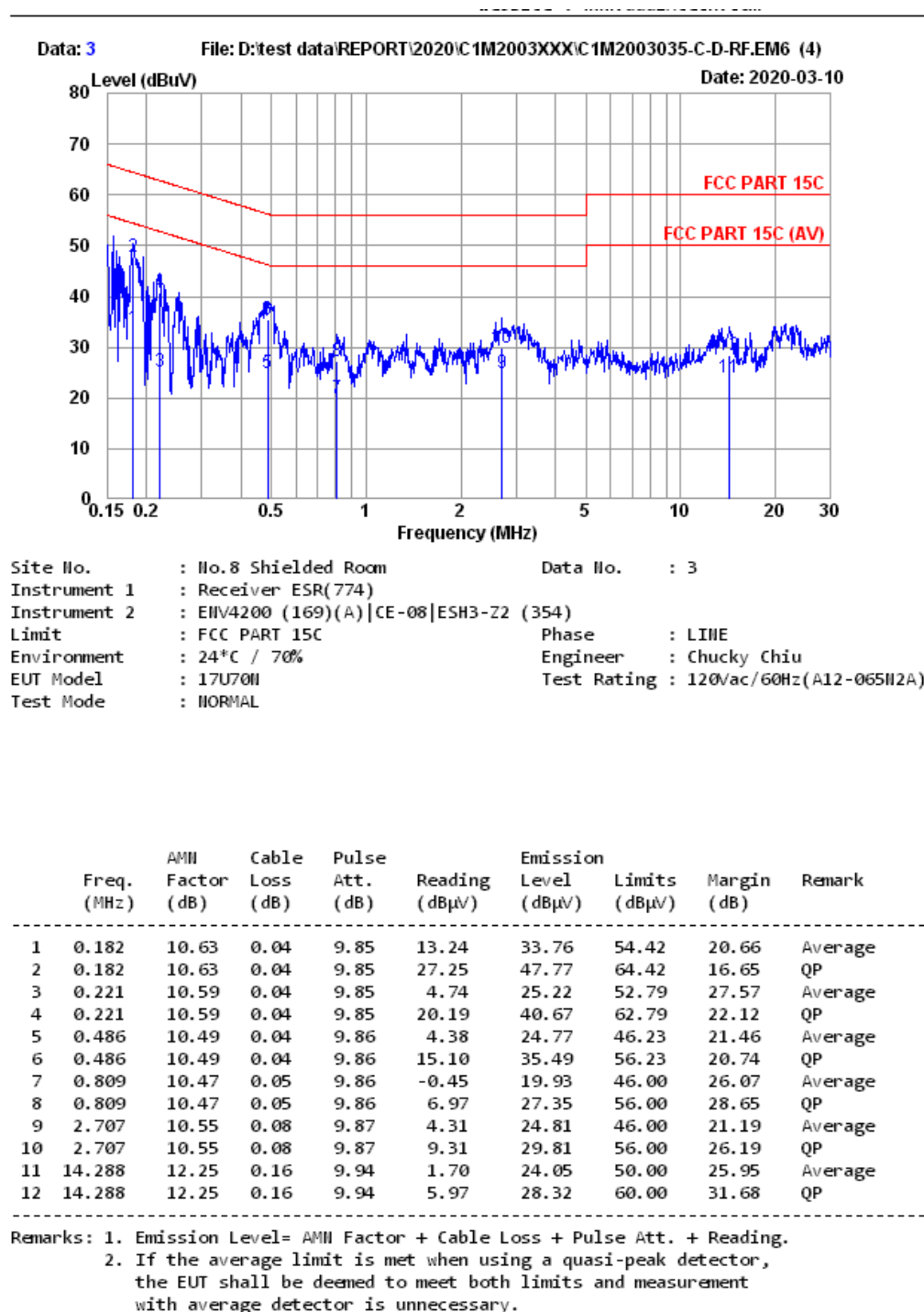
	Freq. (MHz)	AM/FM Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.178	10.69	0.04	9.85	11.67	32.25	54.59	22.34	Average
2	0.178	10.69	0.04	9.85	27.23	47.81	64.59	16.78	QP
3	0.238	10.62	0.04	9.85	-4.04	16.47	52.17	35.70	Average
4	0.238	10.62	0.04	9.85	10.48	30.99	62.17	31.18	QP
5	0.476	10.52	0.04	9.86	7.81	28.23	46.41	18.18	Average
6	0.476	10.52	0.04	9.86	16.36	36.78	56.41	19.63	QP
7	1.197	10.51	0.05	9.86	-1.95	18.47	46.00	27.53	Average
8	1.197	10.51	0.05	9.86	4.69	25.11	56.00	30.89	QP
9	2.794	10.61	0.08	9.87	5.74	26.30	46.00	19.70	Average
10	2.794	10.61	0.08	9.87	10.46	31.02	56.00	24.98	QP
11	19.845	13.60	0.19	9.96	-0.05	23.70	50.00	26.30	Average
12	19.845	13.60	0.19	9.96	5.08	28.83	60.00	31.17	QP

Remarks: 1. Emission Level= AM/FM 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.

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Test Date	2020/03/10	Temp./Hum.	24°C/70%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu
Test SKU	SKU #2		



A.2 RADIATED EMISSION

Test Date	2020/03/05~11	Temp./Hum.	19~23°C /58~67%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Sam Chang
Test SKU	SKU #1		

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-HT20	Frequency	TX 2442MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
33.880	22.55	1.32	1.11	24.98	40.00	15.02	Peak
101.780	16.92	2.45	4.98	24.35	43.50	19.15	Peak
332.640	20.18	5.04	5.24	30.46	46.00	15.54	Peak
553.800	24.22	6.98	1.38	32.58	46.00	13.42	Peak
857.410	26.52	8.47	1.50	36.49	46.00	9.51	Peak
961.200	27.19	8.99	1.60	37.78	54.00	16.22	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
33.880	22.55	1.32	0.23	24.10	40.00	15.90	Peak
125.060	18.55	2.75	1.82	23.12	43.50	20.38	Peak
403.450	21.90	6.05	2.30	30.25	46.00	15.75	Peak
693.480	24.97	7.58	1.85	34.40	46.00	11.60	Peak
923.370	26.96	8.82	1.12	36.90	46.00	9.10	Peak
968.960	27.23	9.02	1.33	37.58	54.00	16.42	Peak

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Mode	BLE	Frequency	TX 2440MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
31.940	23.35	1.26	-0.22	24.39	40.00	15.61	Peak
101.780	16.92	2.45	4.44	23.81	43.50	19.69	Peak
216.240	16.49	3.70	7.19	27.38	46.00	18.62	Peak
688.630	24.96	7.55	1.29	33.80	46.00	12.20	Peak
924.340	26.97	8.83	2.08	37.88	46.00	8.12	Peak
987.390	27.32	9.10	0.98	37.40	54.00	16.60	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
33.880	22.55	1.32	1.54	25.41	40.00	14.59	Peak
133.790	18.27	2.86	1.07	22.20	43.50	21.30	Peak
385.990	21.54	5.82	1.79	29.15	46.00	16.85	Peak
640.130	24.88	7.26	1.19	33.33	46.00	12.67	Peak
869.050	26.61	8.54	1.61	36.76	46.00	9.24	Peak
972.840	27.25	9.04	1.13	37.42	54.00	16.58	Peak

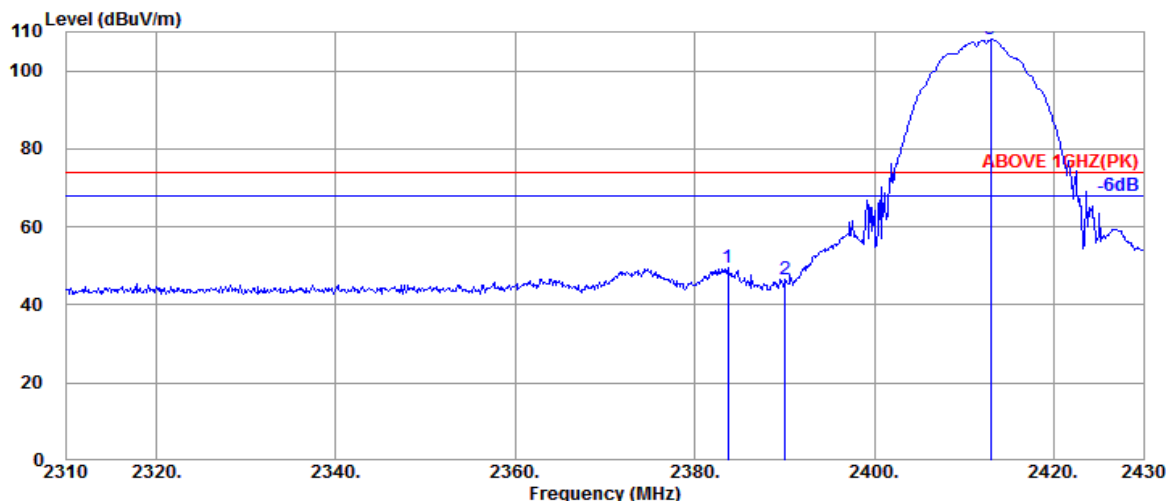
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A.2.1.3 Frequency Above 1 GHz to 10th harmonics

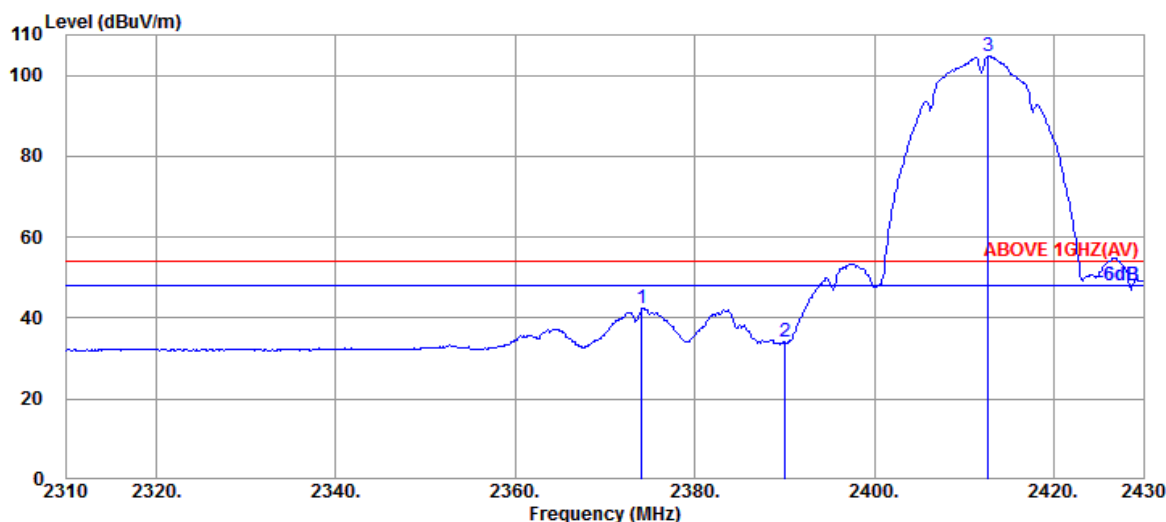
Band Edge:

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2383.680	28.27	8.51	12.73	49.51	74.00	24.49	Peak
2390.040	28.40	8.52	9.76	46.68	74.00	27.32	Peak
@ 2412.960	28.43	8.53	71.07	108.03	---	---	Peak



Antenna at Horizontal Polarization

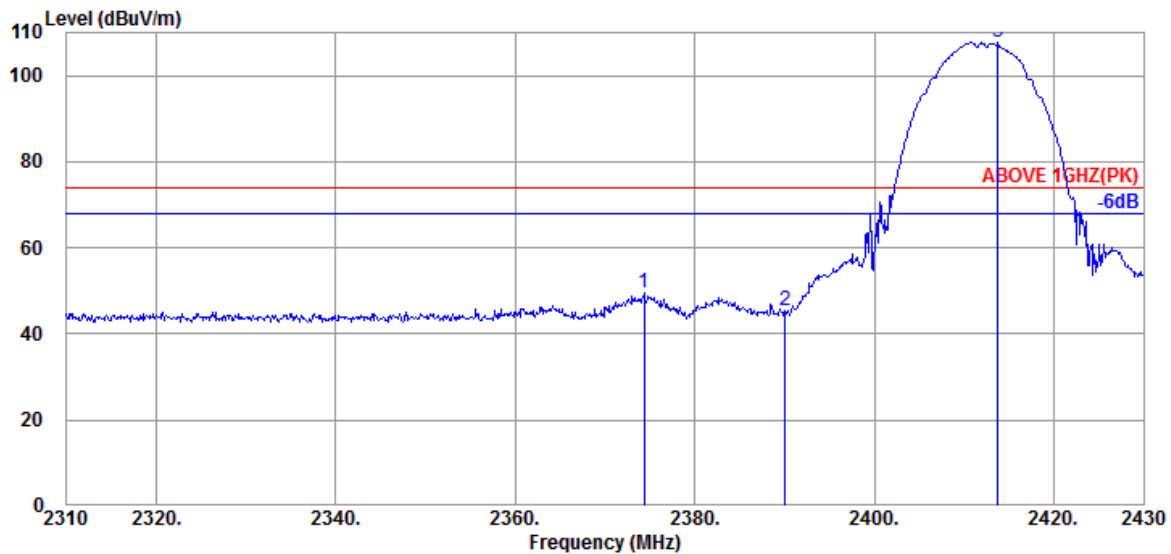
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2374.080	28.27	8.51	5.59	42.37	54.00	11.63	Average
2390.040	28.40	8.52	-2.85	34.07	54.00	19.93	Average
@ 2412.720	28.43	8.53	67.89	104.85	---	---	Average

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

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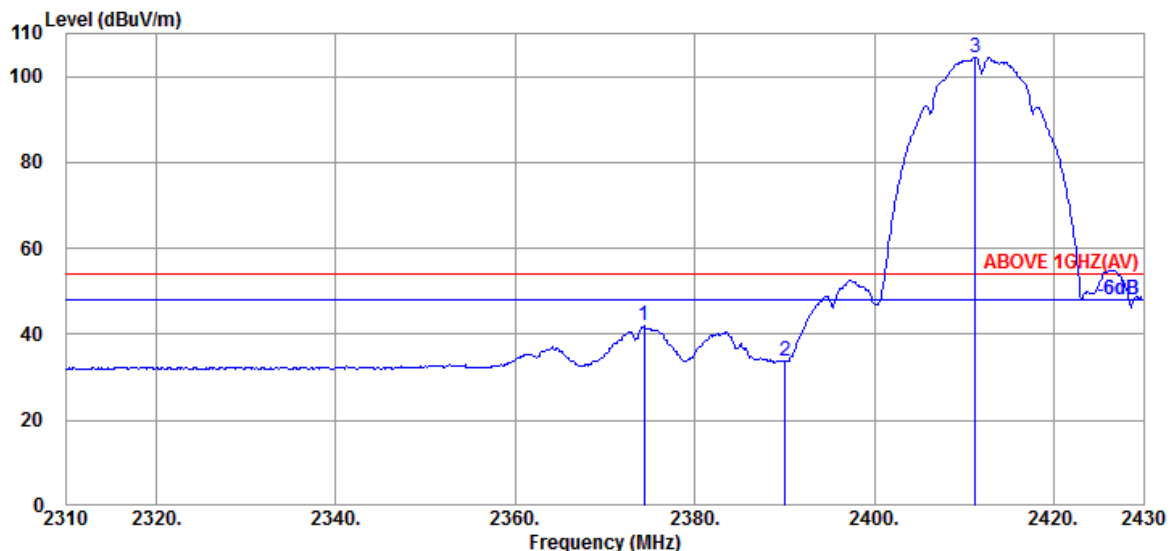
Tel: +886 2 26099301
Fax: +886 2 26099303

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2374.320	28.27	8.51	12.66	49.44	74.00	24.56	Peak
2390.040	28.40	8.52	8.43	45.35	74.00	28.65	Peak
@ 2413.800	28.43	8.53	70.97	107.93	---	---	Peak

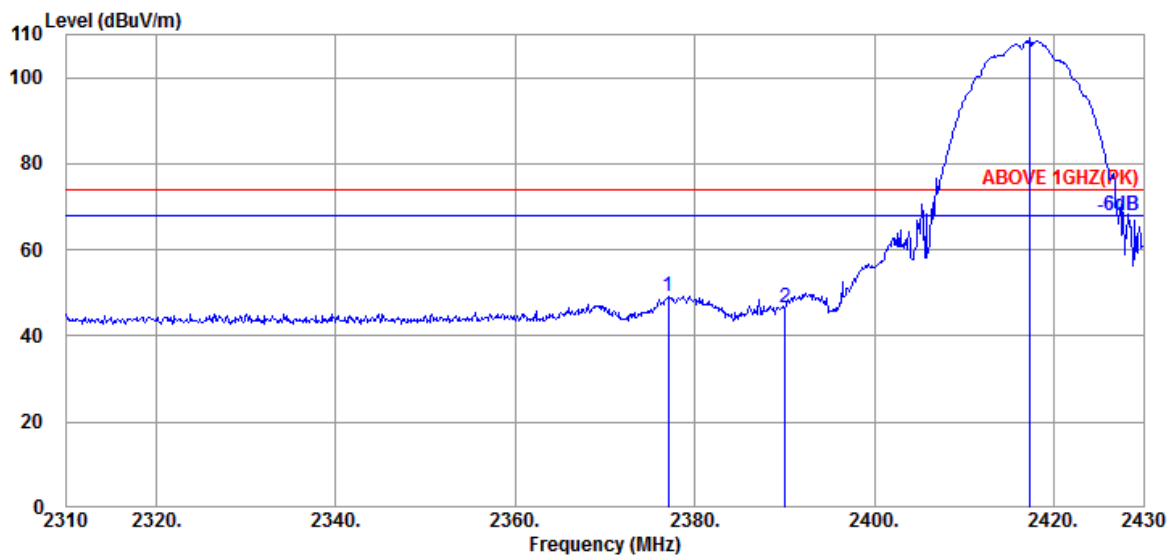


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2374.320	28.27	8.51	5.11	41.89	54.00	12.11	Average
2390.040	28.40	8.52	-3.15	33.77	54.00	20.23	Average
@ 2411.280	28.43	8.53	67.42	104.38	---	---	Average

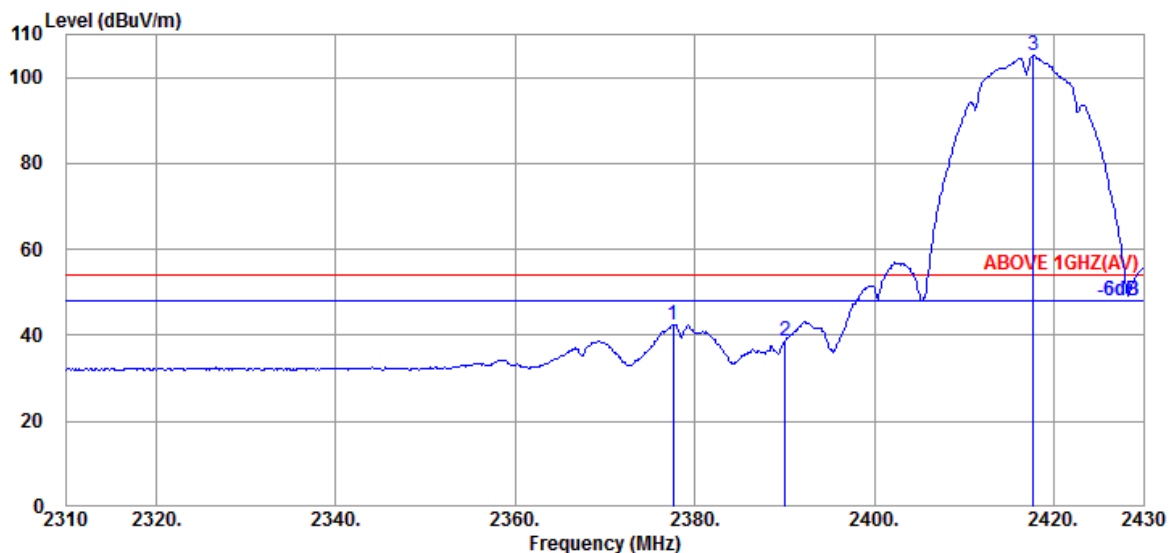
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11b	Frequency	TX 2417MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2377.080	28.27	8.51	12.57	49.35	74.00	24.65	Peak
2390.040	28.40	8.52	9.70	46.62	74.00	27.38	Peak
@ 2417.400	28.43	8.53	72.28	109.24	---	---	Peak

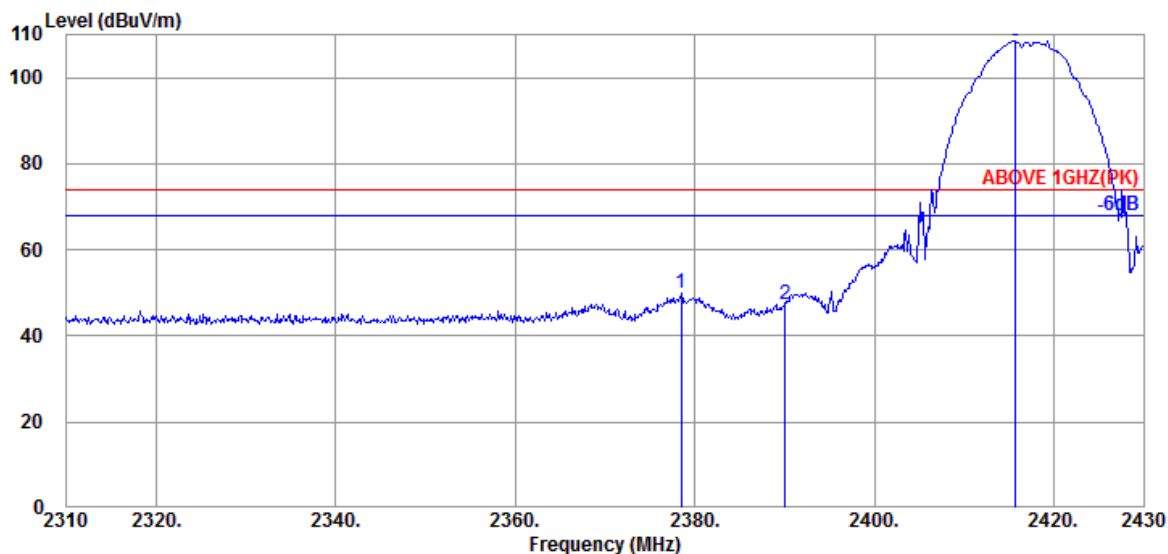


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2377.560	28.27	8.51	5.80	42.58	54.00	11.42	Average
2390.040	28.40	8.52	1.86	38.78	54.00	15.22	Average
@ 2417.760	28.43	8.53	68.14	105.10	---	---	Average

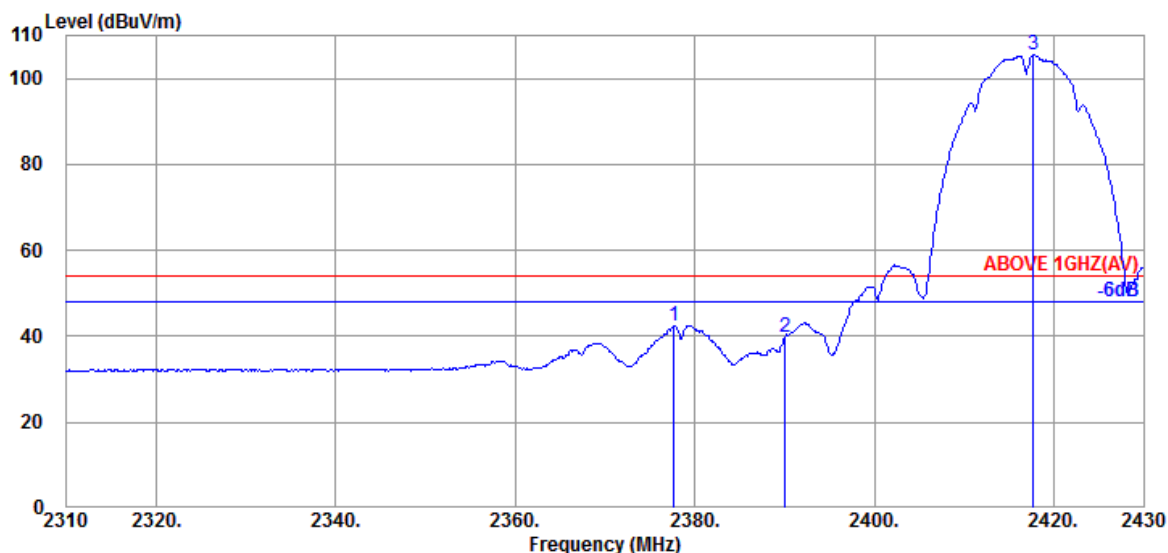
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11b	Frequency	TX 2417MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2378.520	28.27	8.51	13.17	49.95	74.00	24.05	Peak
2390.040	28.40	8.52	10.56	47.48	74.00	26.52	Peak
@ 2415.720	28.43	8.53	71.40	108.36	---	---	Peak



Antenna at Vertical Polarization

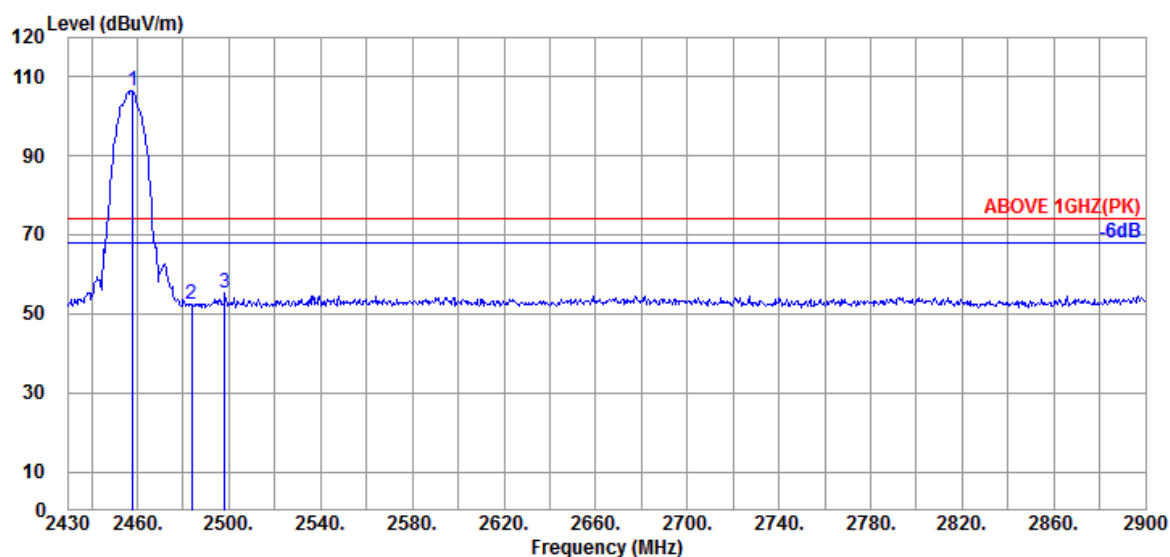
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2377.680	28.27	8.51	5.82	42.60	54.00	11.40	Average
2390.040	28.40	8.52	2.71	39.63	54.00	14.37	Average
@ 2417.760	28.43	8.53	68.46	105.42	---	---	Average

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

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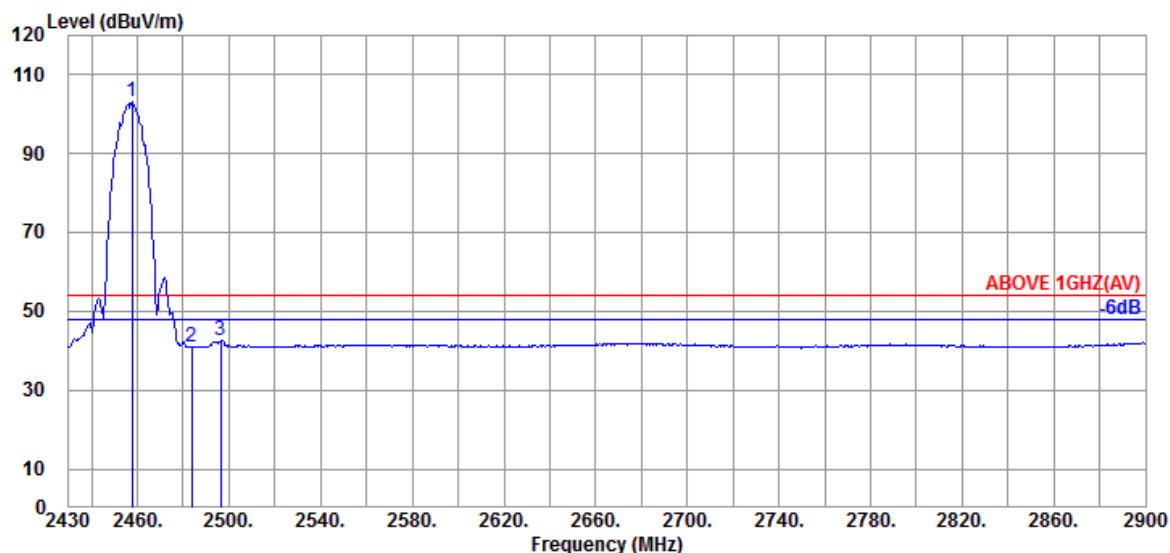
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Mode	802.11b	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2458.200	28.60	8.57	69.37	106.54	---	---	Peak
	2483.580	28.70	8.58	15.06	52.34	74.00	21.66	Peak
	2498.150	28.80	8.59	17.91	55.30	74.00	18.70	Peak



Antenna at Horizontal Polarization

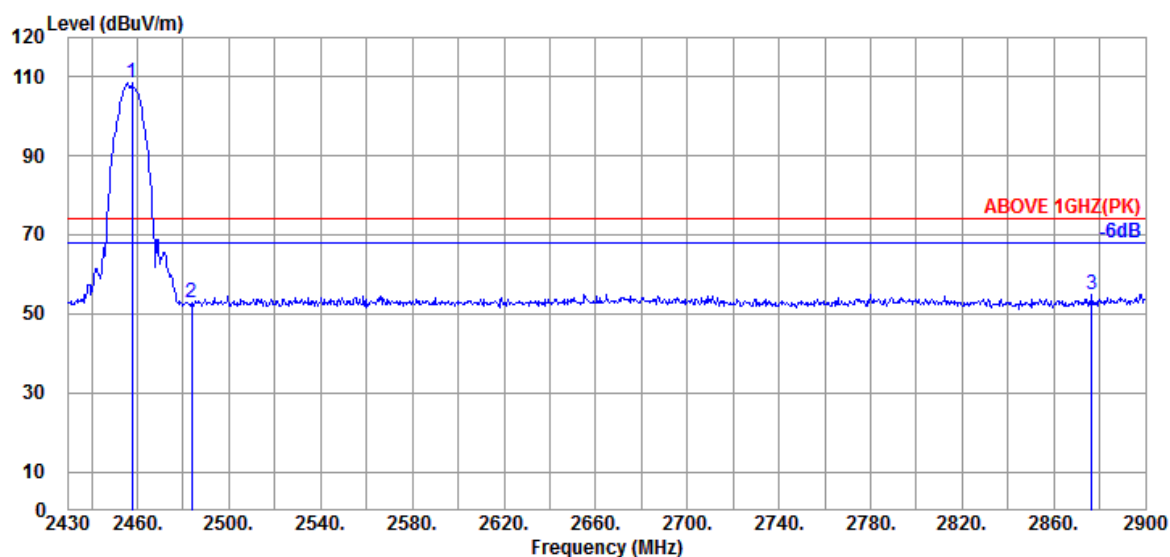
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@	2457.730	28.60	8.57	65.98	103.15	---	---	Average
	2483.580	28.70	8.58	3.66	40.94	54.00	13.06	Average
	2496.270	28.80	8.59	5.09	42.48	54.00	11.52	Average

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

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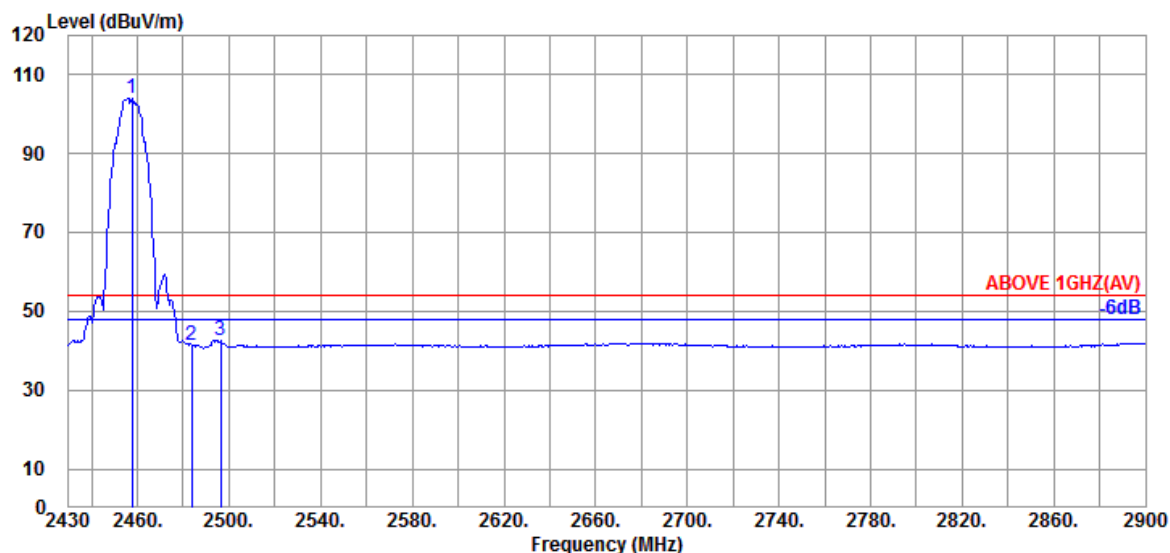
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Mode	802.11b	Frequency	TX 2457MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2457.730	28.60	8.57	71.48	108.65	---	---	Peak
	2483.580	28.70	8.58	15.42	52.70	74.00	21.30	Peak
	2876.500	29.27	8.68	16.97	54.92	74.00	19.08	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2457.730	28.60	8.57	66.97	104.14	---	---	Average
	2483.580	28.70	8.58	4.25	41.53	54.00	12.47	Average
	2496.270	28.80	8.59	5.31	42.70	54.00	11.30	Average

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

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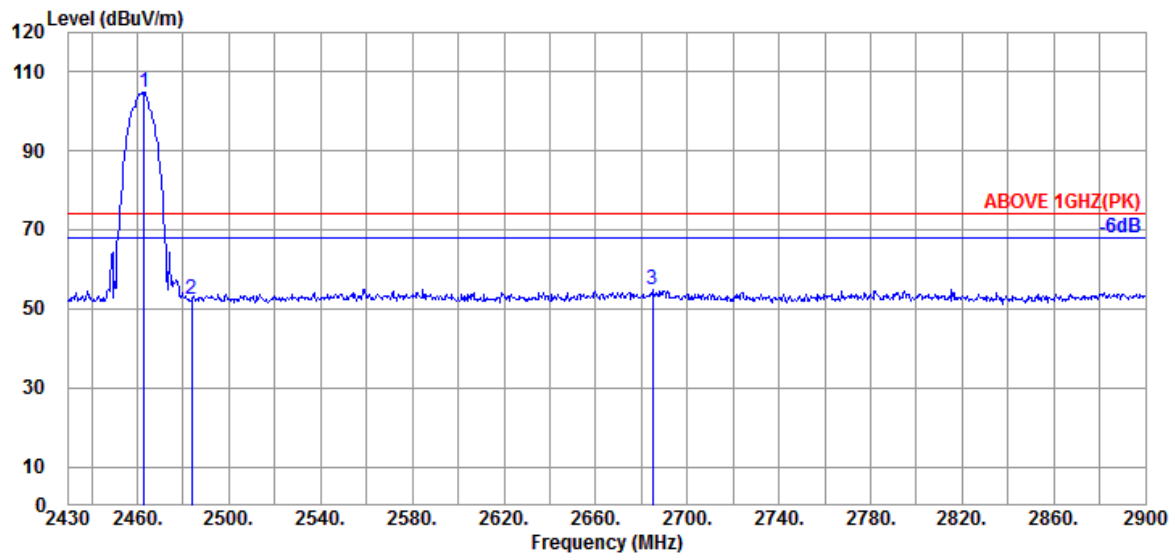
Report Number: EM-F200116

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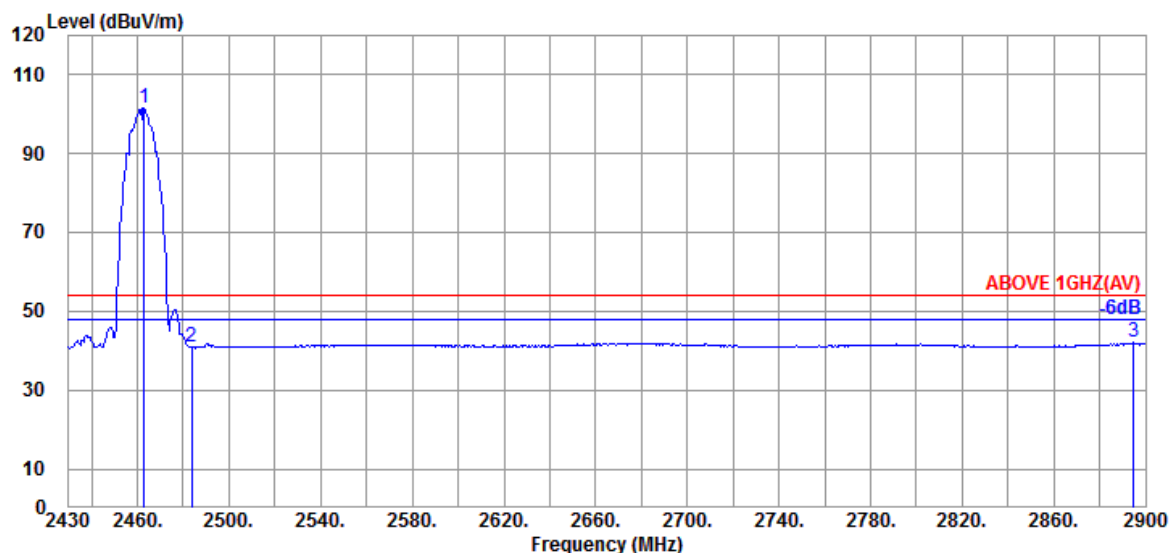
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Mode	802.11b	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2462.900	28.60	8.57	67.76	104.93	---	---	Peak
	2483.580	28.70	8.58	14.99	52.27	74.00	21.73	Peak
	2684.740	29.03	8.63	17.30	54.96	74.00	19.04	Peak



Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2462.900	28.60	8.57	64.40	101.57	---	---	Average
	2483.580	28.70	8.58	3.73	41.01	54.00	12.99	Average
	2894.830	29.43	8.68	3.88	41.99	54.00	12.01	Average

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

File Number: C1M2003035

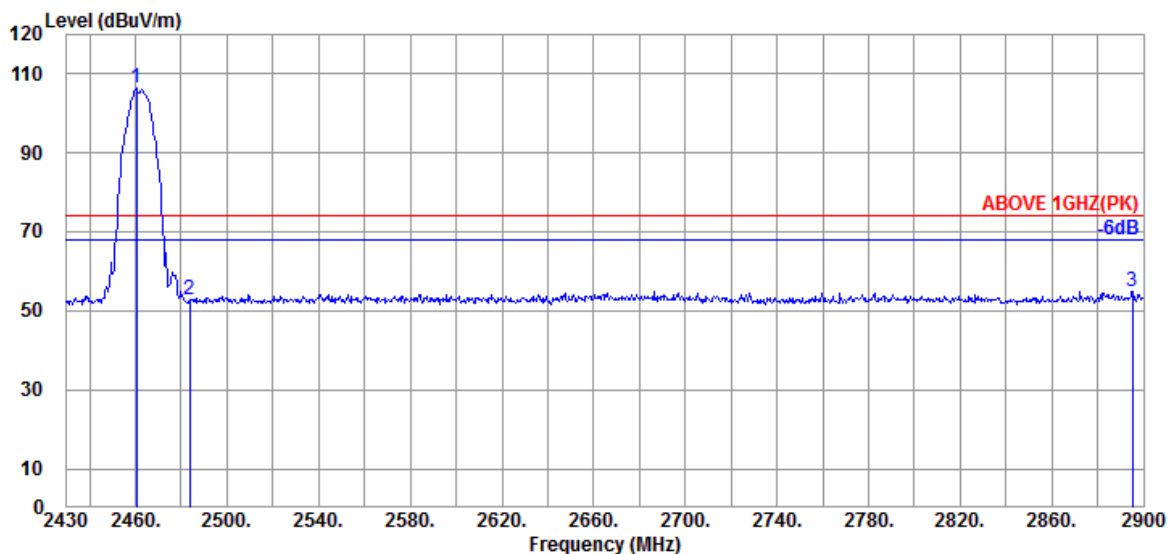
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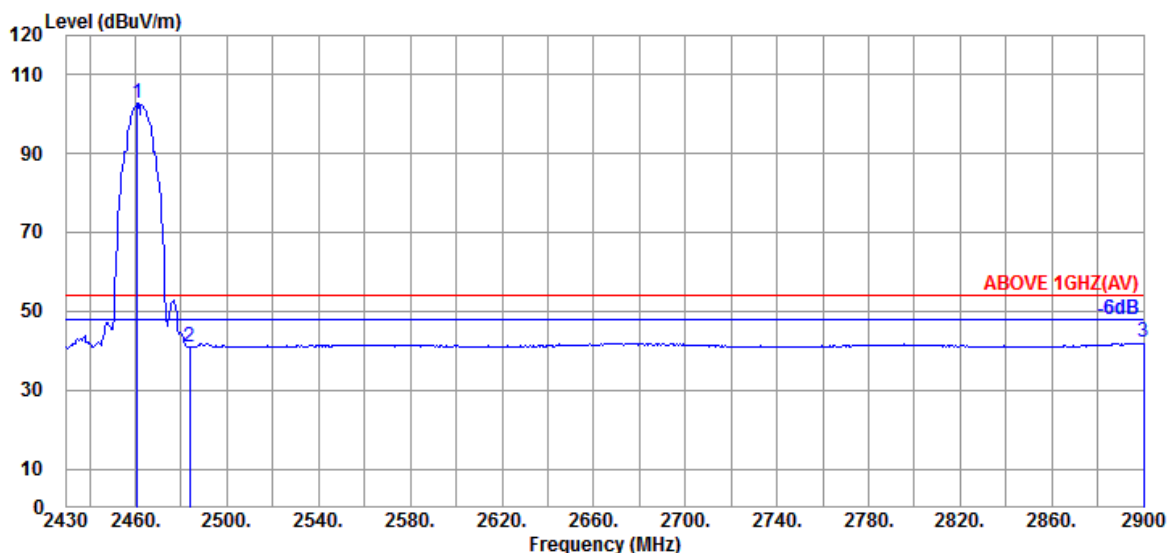
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Mode	802.11b	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2460.550	28.60	8.57	69.26	106.43	---	---	Peak
	2483.580	28.70	8.58	15.58	52.86	74.00	21.14	Peak
	2895.300	29.43	8.68	16.79	54.90	74.00	19.10	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2461.020	28.60	8.57	65.69	102.86	---	---	Average
	2483.580	28.70	8.58	3.74	41.02	54.00	12.98	Average
	2900.000	29.60	8.69	3.69	41.98	54.00	12.02	Average

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

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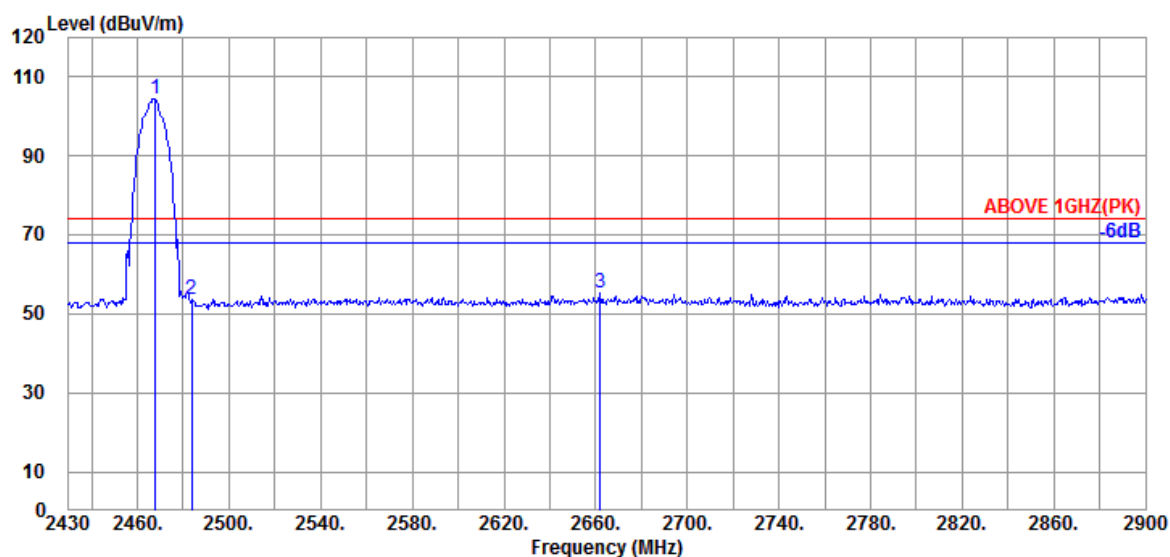
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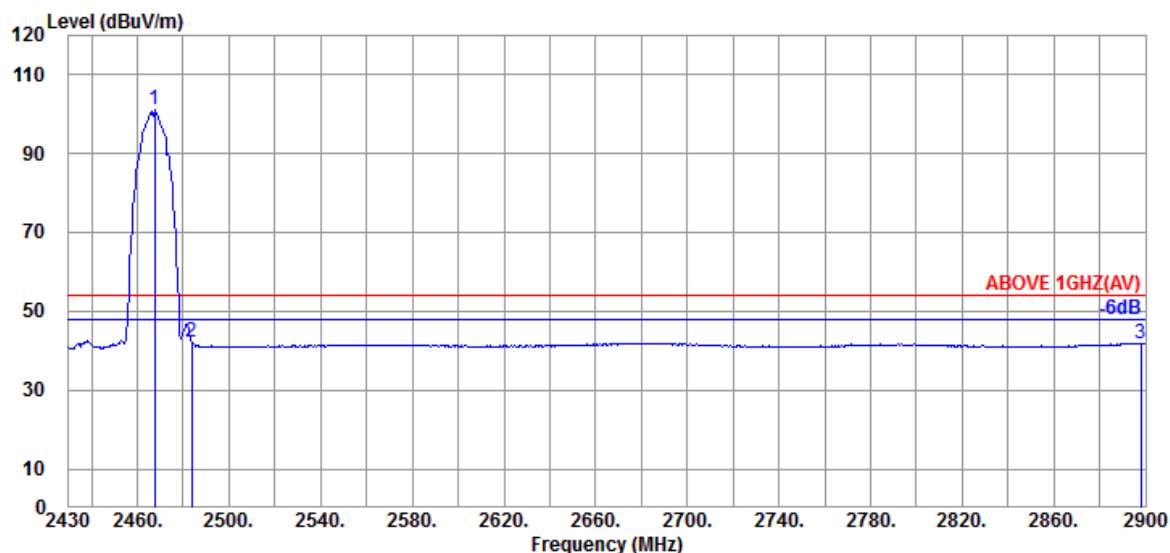
Fax: +886 2 26099303

Mode	802.11b	Frequency	TX 2467MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2468.070	28.60	8.57	67.18	104.35	---	---	Peak
	2483.580	28.70	8.58	16.21	53.49	74.00	20.51	Peak
	2662.180	28.97	8.63	17.52	55.12	74.00	18.88	Peak



Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2467.600	28.60	8.57	63.91	101.08	---	---	Average
	2483.580	28.70	8.58	4.73	42.01	54.00	11.99	Average
	2898.120	29.60	8.69	3.64	41.93	54.00	12.07	Average

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

File Number: C1M2003035

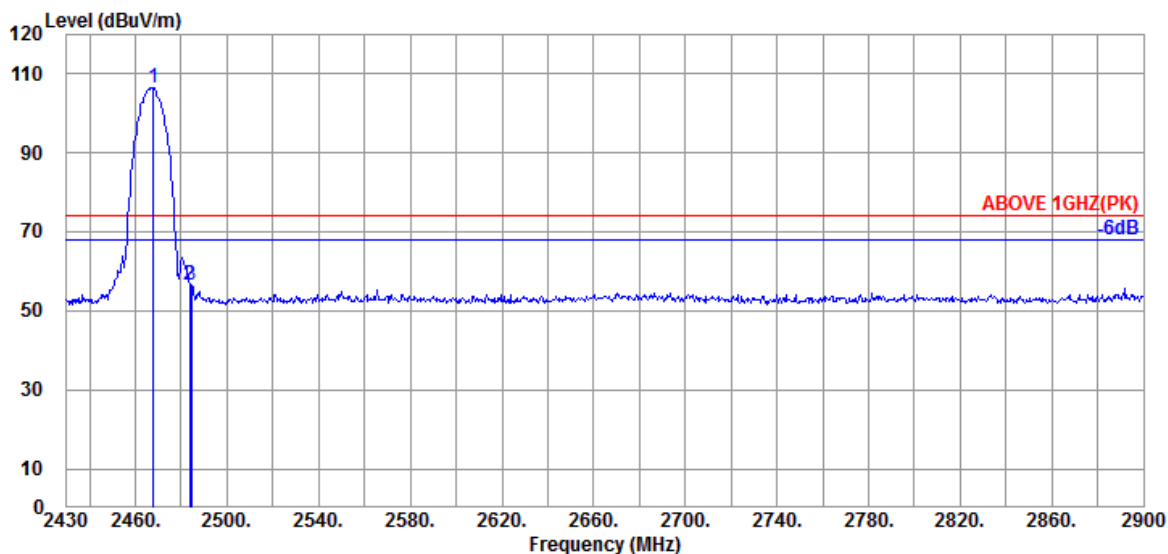
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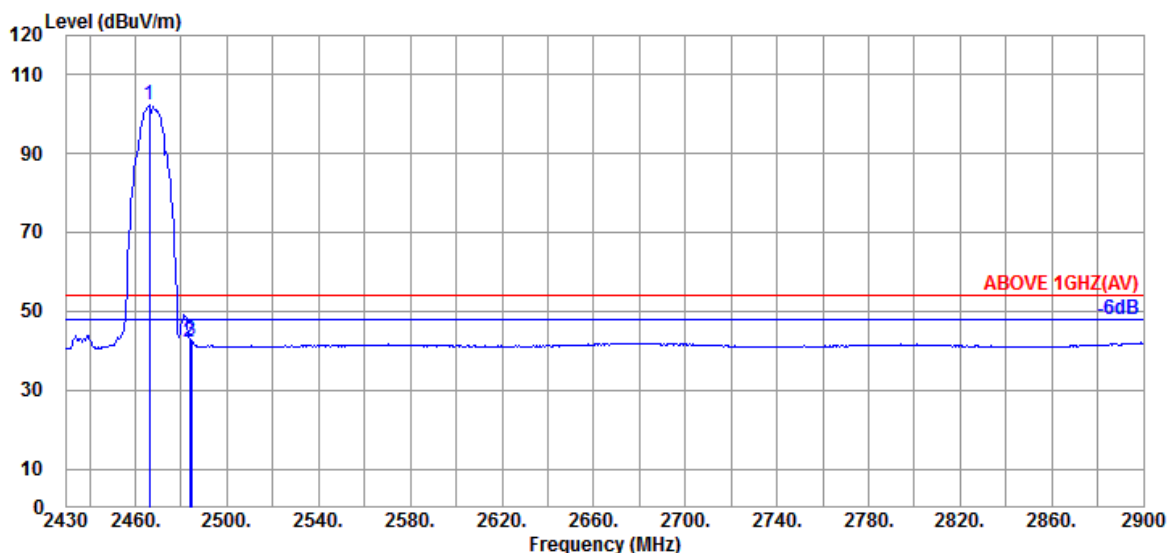
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Mode	802.11b	Frequency	TX 2467MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2468.070	28.60	8.57	69.50	106.67	---	---	Peak
	2483.580	28.70	8.58	19.19	56.47	74.00	17.53	Peak
	2484.520	28.70	8.58	19.08	56.36	74.00	17.64	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2466.190	28.60	8.57	65.13	102.30	---	---	Average
	2483.580	28.70	8.58	5.09	42.37	54.00	11.63	Average
	2484.520	28.70	8.58	5.52	42.80	54.00	11.20	Average

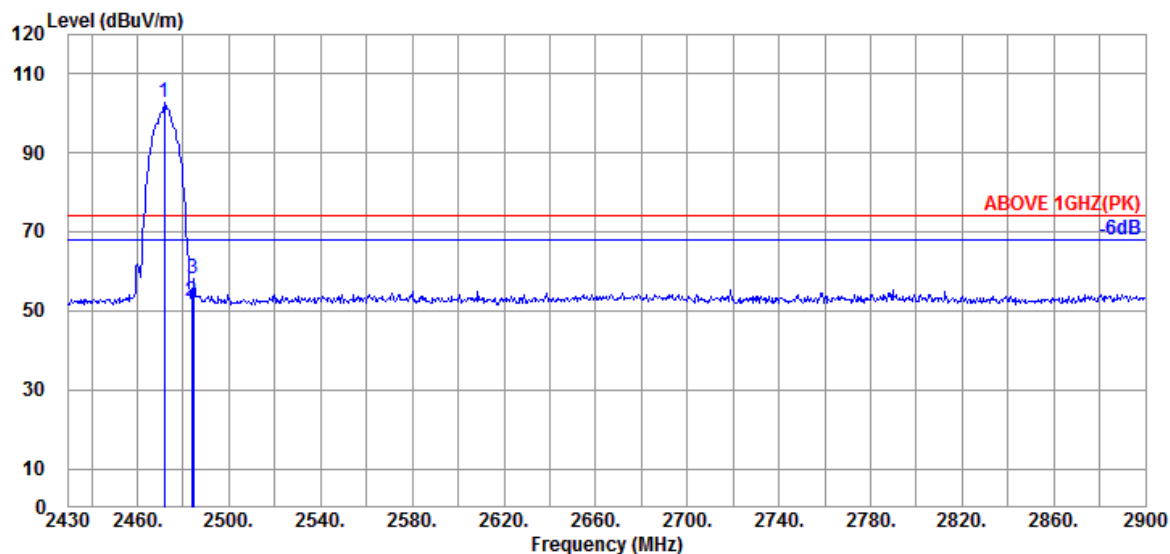
Remark: The “@” means fundamental frequency, it is ignored in this section.

File Number: C1M2003035

Report Number: EM-F200116

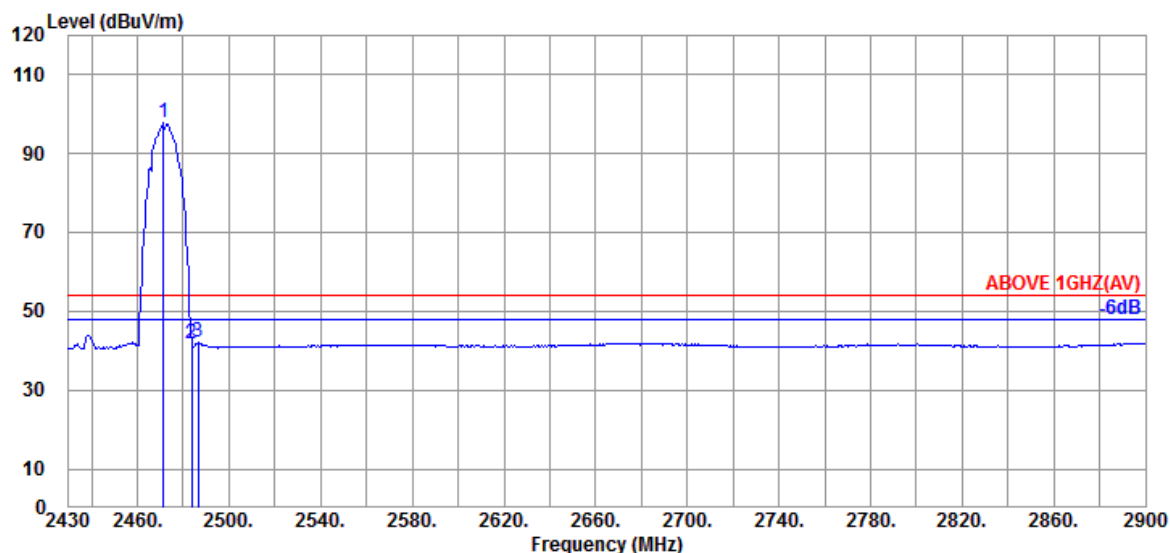
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Mode	802.11b	Frequency	TX 2472MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2471.830	28.70	8.58	65.64	102.92	---	---	Peak
	2483.580	28.70	8.58	15.29	52.57	74.00	21.43	Peak
	2484.520	28.70	8.58	20.98	58.26	74.00	15.74	Peak



Antenna at Horizontal Polarization

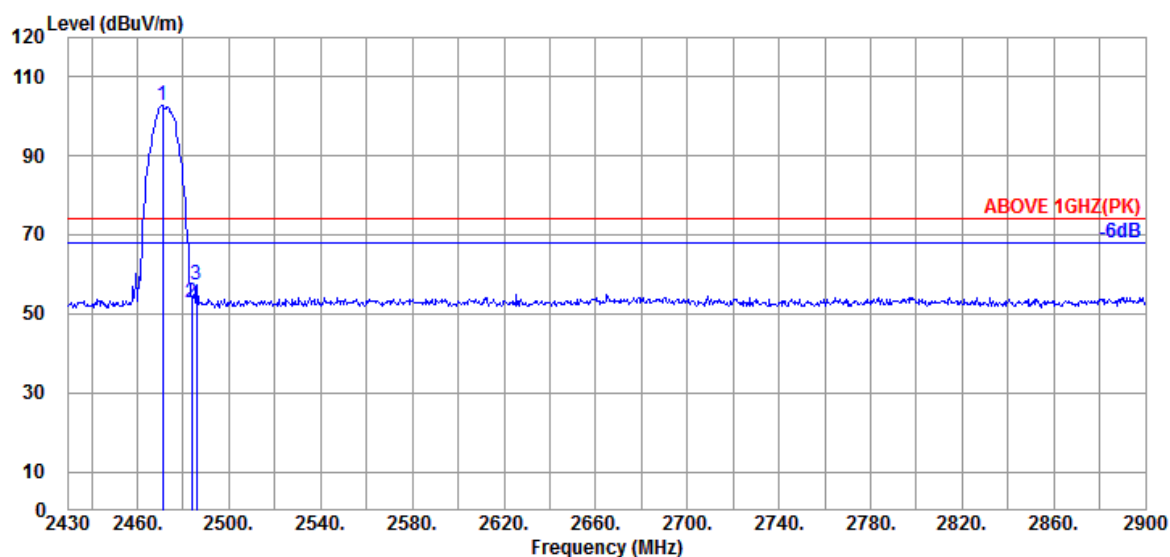
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@	2471.360	28.70	8.58	60.43	97.71	---	---	Average
	2483.580	28.70	8.58	4.41	41.69	54.00	12.31	Average
	2486.400	28.70	8.58	4.83	42.11	54.00	11.89	Average

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

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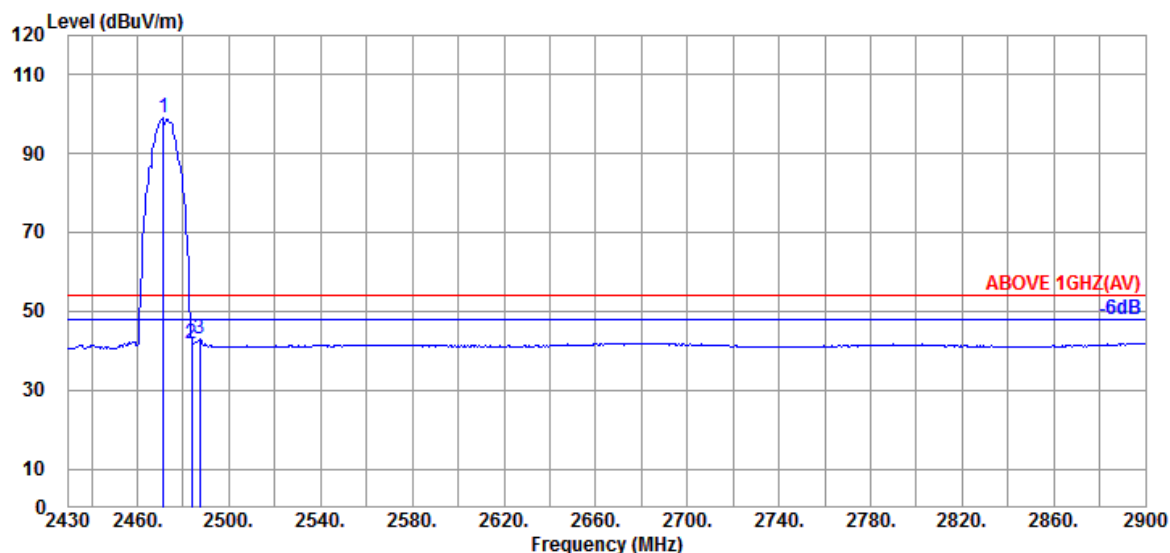
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Mode	802.11b	Frequency	TX 2472MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2470.890	28.70	8.58	65.43	102.71	---	---	Peak
	2483.580	28.70	8.58	15.47	52.75	74.00	21.25	Peak
	2485.930	28.70	8.58	20.00	57.28	74.00	16.72	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2471.360	28.70	8.58	61.90	99.18	---	---	Average
	2483.580	28.70	8.58	4.68	41.96	54.00	12.04	Average
	2487.340	28.70	8.58	5.53	42.81	54.00	11.19	Average

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

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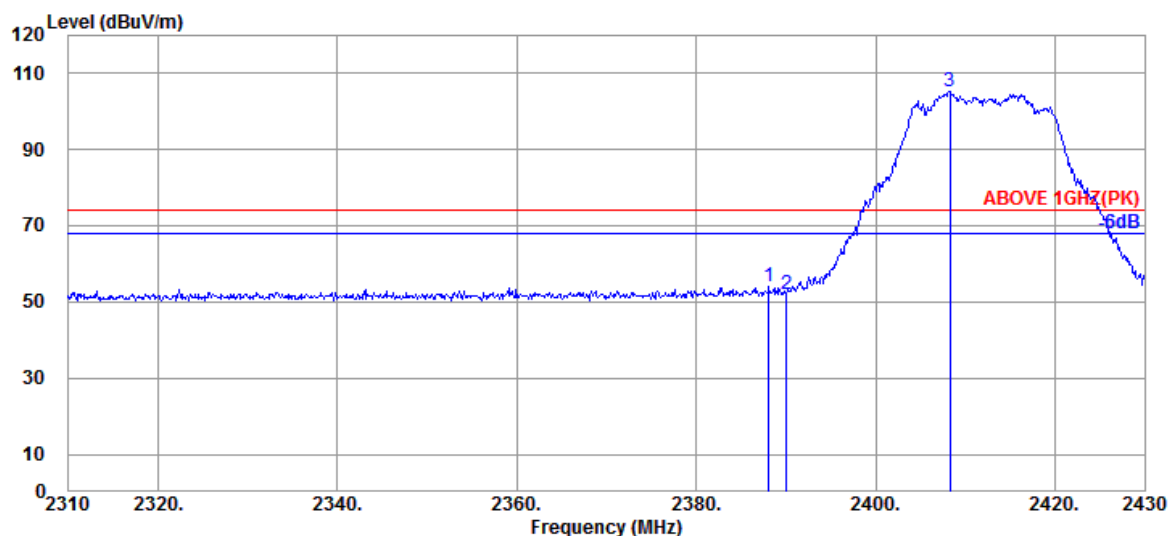
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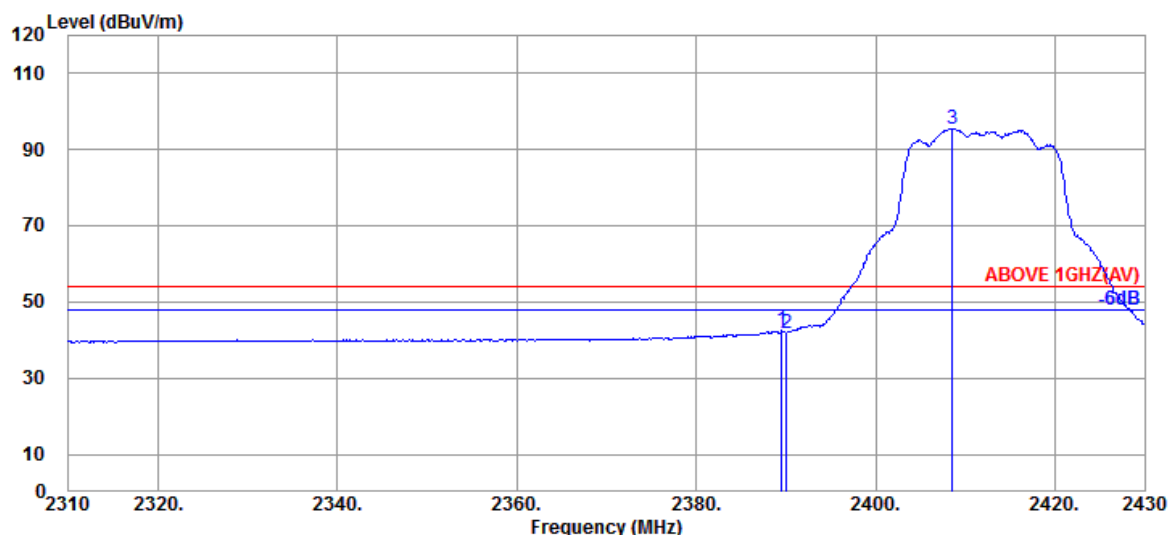
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Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2388.120	28.40	8.52	17.23	54.15	74.00	19.85	Peak
2390.040	28.40	8.52	15.07	51.99	74.00	22.01	Peak
@ 2408.280	28.43	8.53	68.28	105.24	---	---	Peak



Antenna at Horizontal Polarization

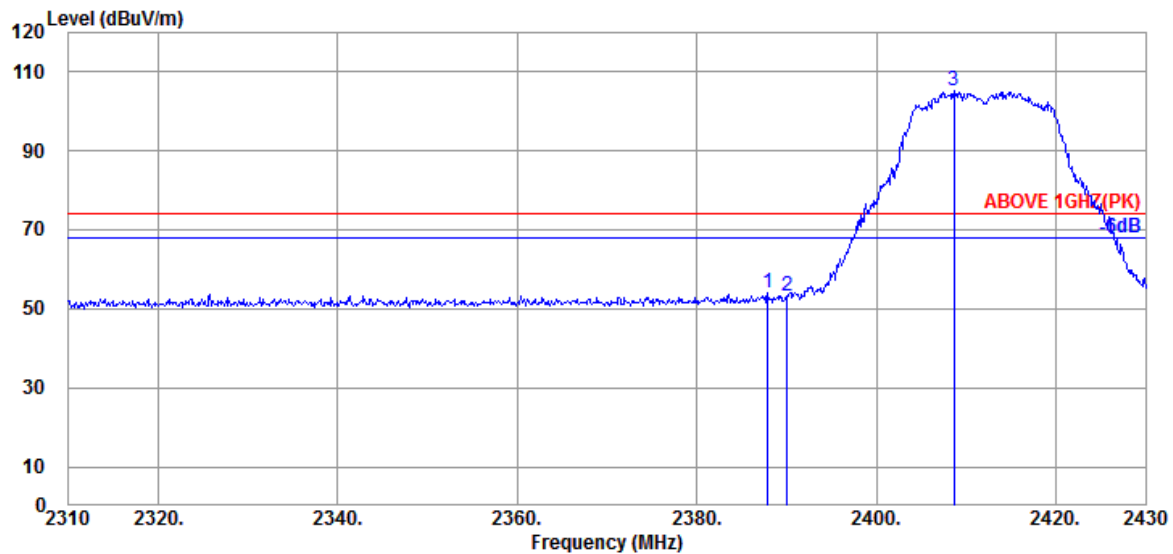
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2389.560	28.40	8.52	5.53	42.45	54.00	11.55	Average
2390.040	28.40	8.52	4.91	41.83	54.00	12.17	Average
@ 2408.520	28.43	8.53	58.45	95.41	---	---	Average

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

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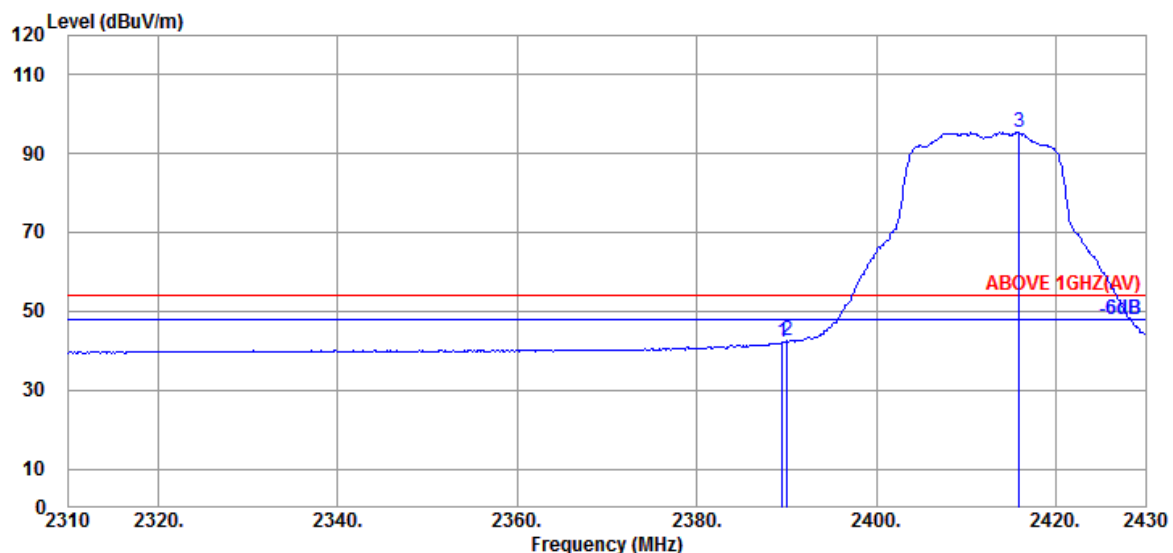
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Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2387.880	28.40	8.52	16.95	53.87	74.00	20.13	Peak
2390.040	28.40	8.52	16.28	53.20	74.00	20.80	Peak
@ 2408.640	28.43	8.53	68.34	105.30	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.560	28.40	8.52	5.16	42.08	54.00	11.92	Average
2390.040	28.40	8.52	5.50	42.42	54.00	11.58	Average
@ 2415.960	28.43	8.53	58.51	95.47	---	---	Average

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

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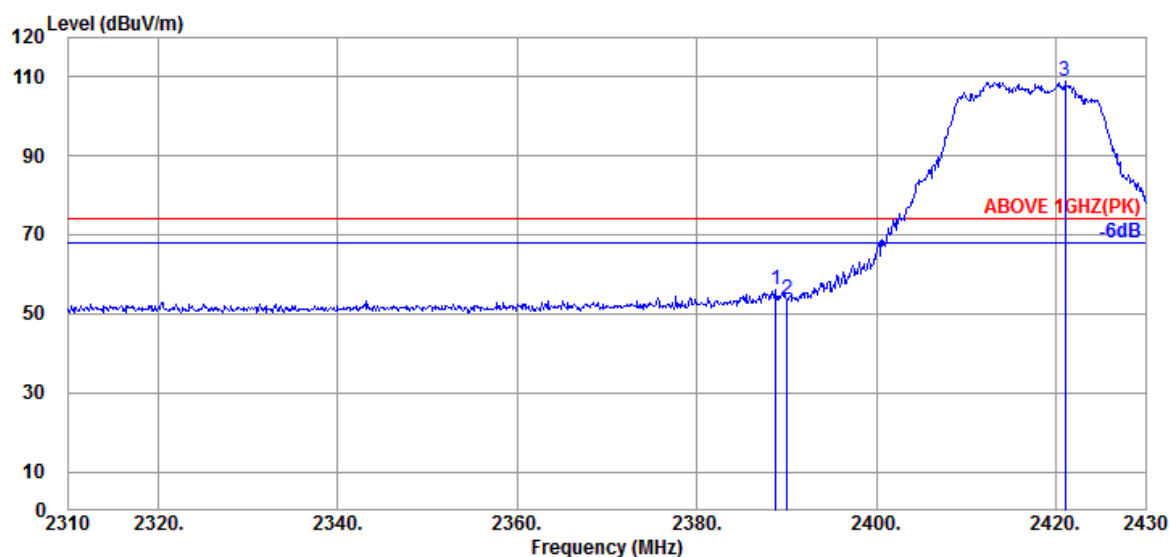
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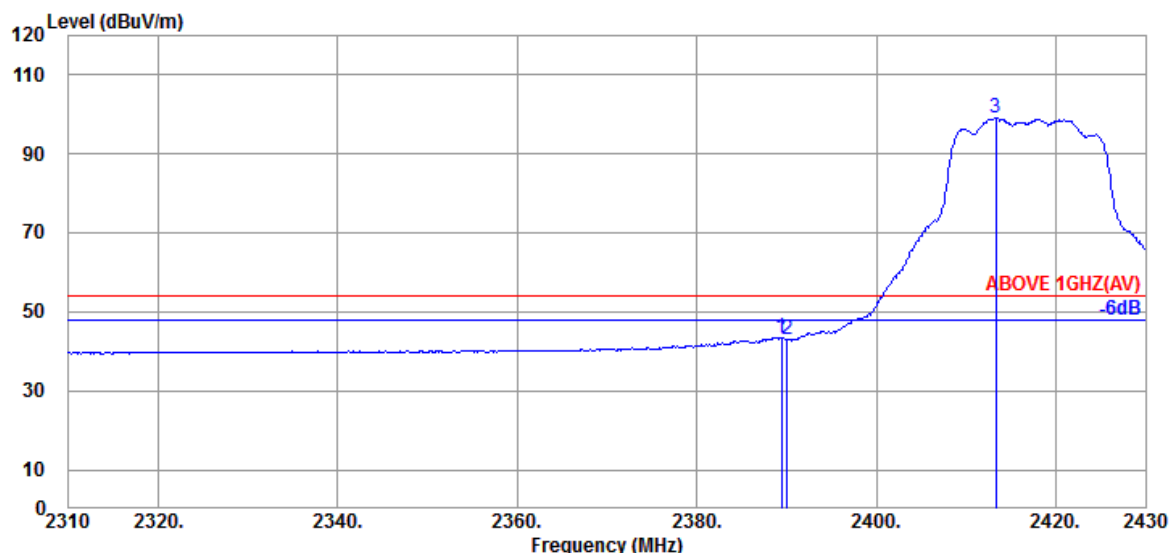
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Mode	802.11g	Frequency	TX 2417MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2388.840	28.40	8.52	19.02	55.94	74.00	18.06	Peak
2390.040	28.40	8.52	16.76	53.68	74.00	20.32	Peak
@ 2421.000	28.47	8.54	71.82	108.83	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.440	28.40	8.52	6.63	43.55	54.00	10.45	Average
2390.040	28.40	8.52	6.06	42.98	54.00	11.02	Average
@ 2413.320	28.43	8.53	62.28	99.24	---	---	Average

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

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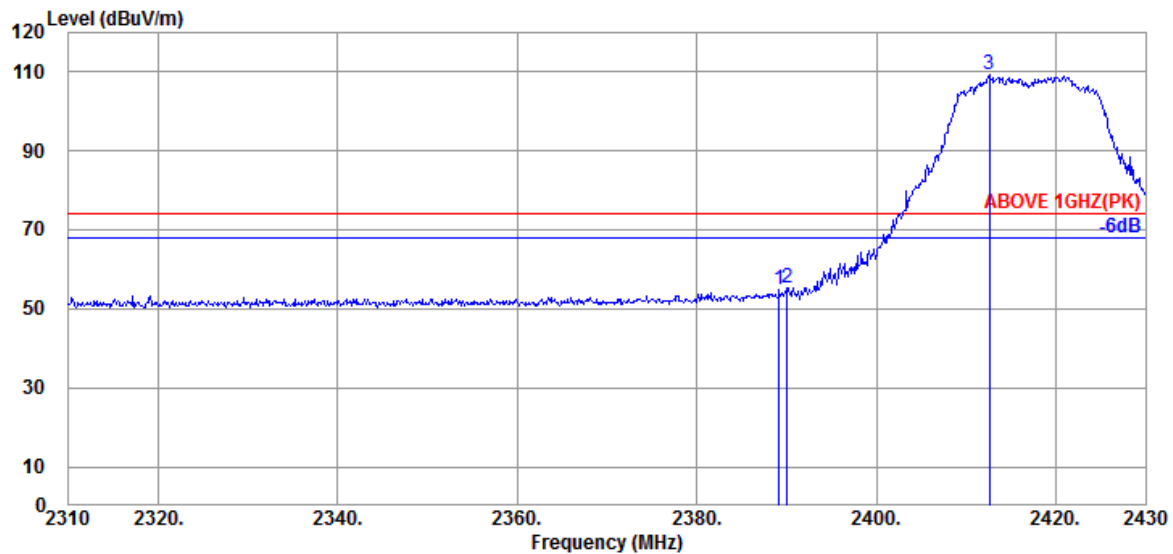
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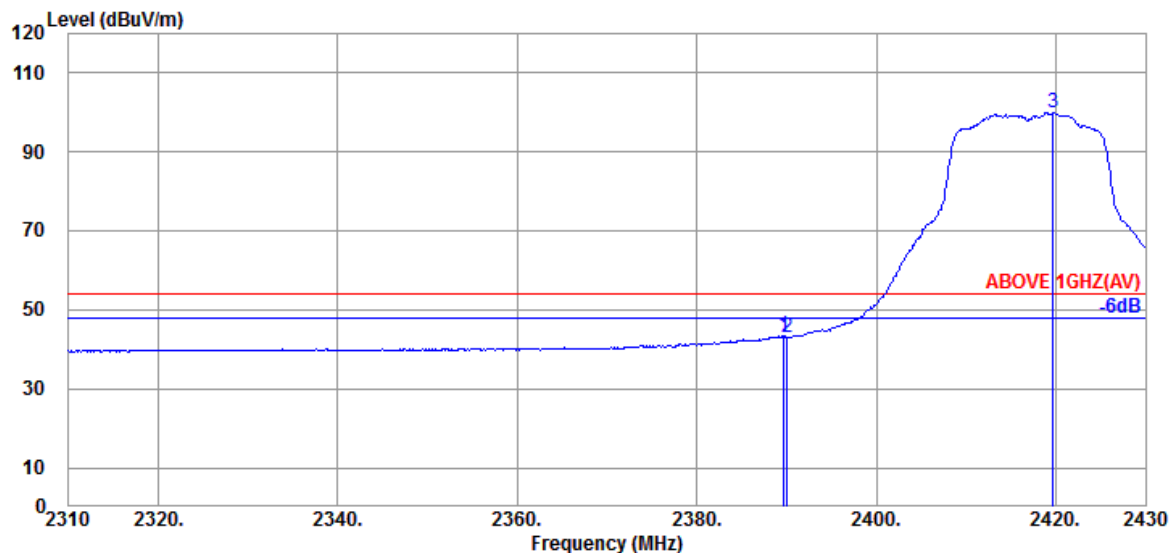
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Mode	802.11g	Frequency	TX 2417MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.200	28.40	8.52	17.83	54.75	74.00	19.25	Peak
2390.040	28.40	8.52	18.28	55.20	74.00	18.80	Peak
@ 2412.600	28.43	8.53	72.41	109.37	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.680	28.40	8.52	6.54	43.46	54.00	10.54	Average
2390.040	28.40	8.52	6.02	42.94	54.00	11.06	Average
@ 2419.680	28.47	8.54	62.80	99.81	---	---	Average

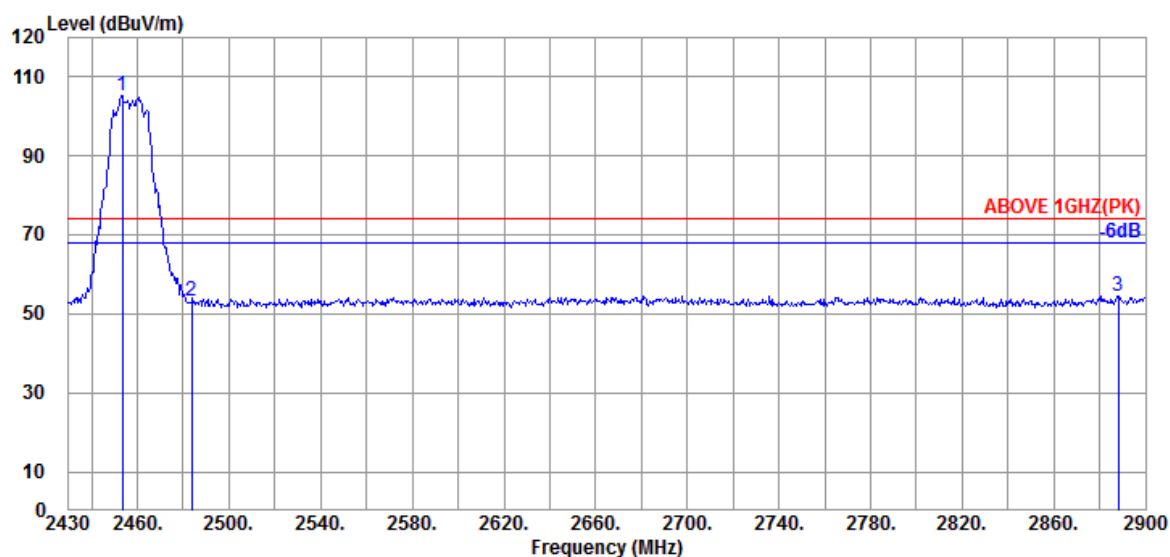
Remark: The “@” means fundamental frequency, it is ignored in this section.

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Report Number: EM-F200116

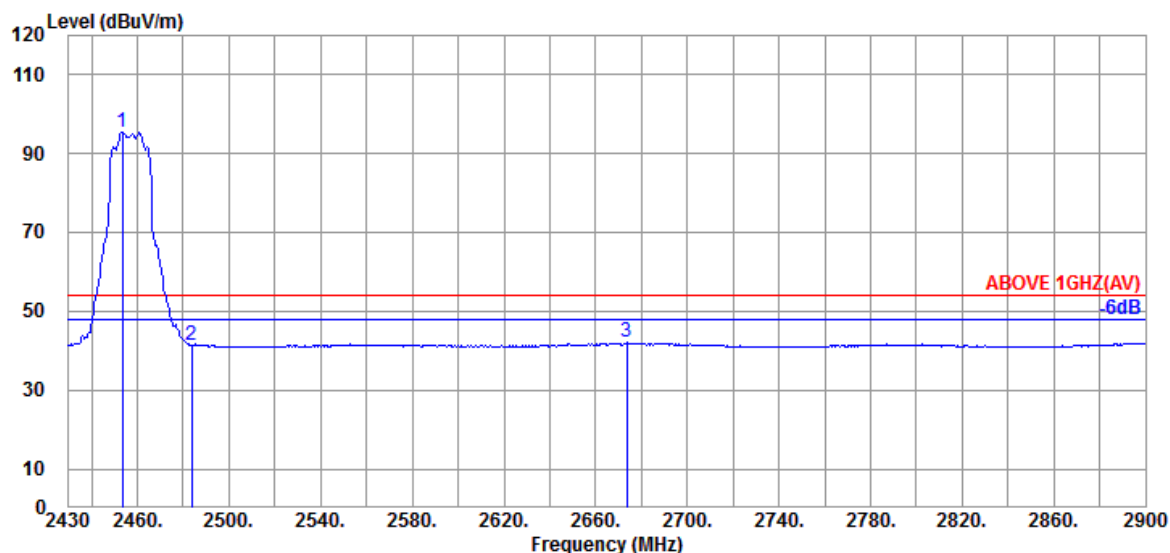
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Mode	802.11g	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2453.500	28.60	8.57	68.13	105.30	---	---	Peak
	2483.580	28.70	8.58	15.86	53.14	74.00	20.86	Peak
	2888.250	29.43	8.68	16.57	54.68	74.00	19.32	Peak

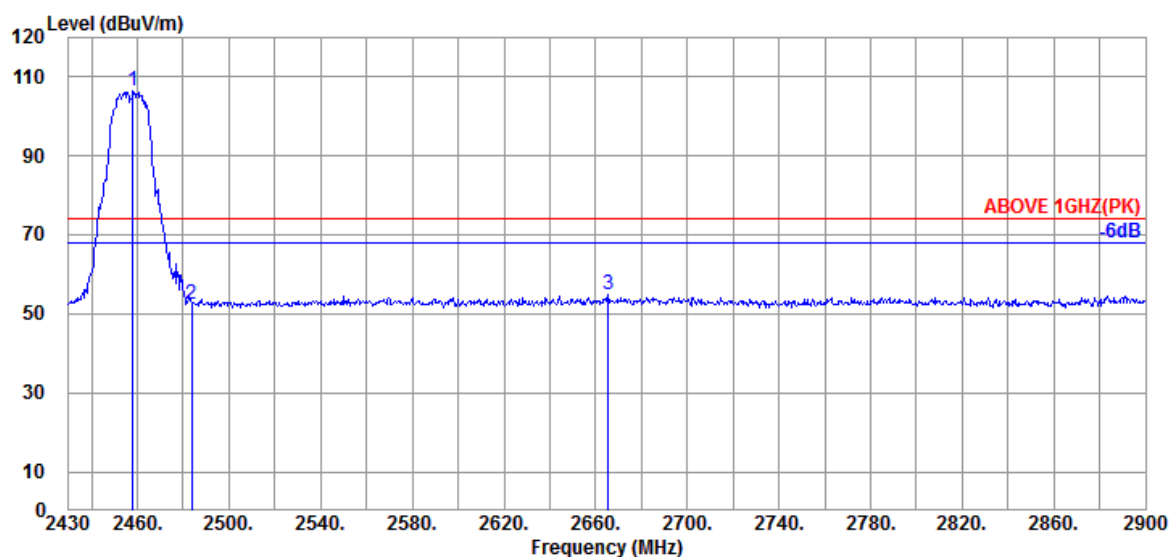


Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2453.500	28.60	8.57	58.17	95.34	---	---	Average
	2483.580	28.70	8.58	4.27	41.55	54.00	12.45	Average
	2673.460	28.97	8.63	4.38	41.98	54.00	12.02	Average

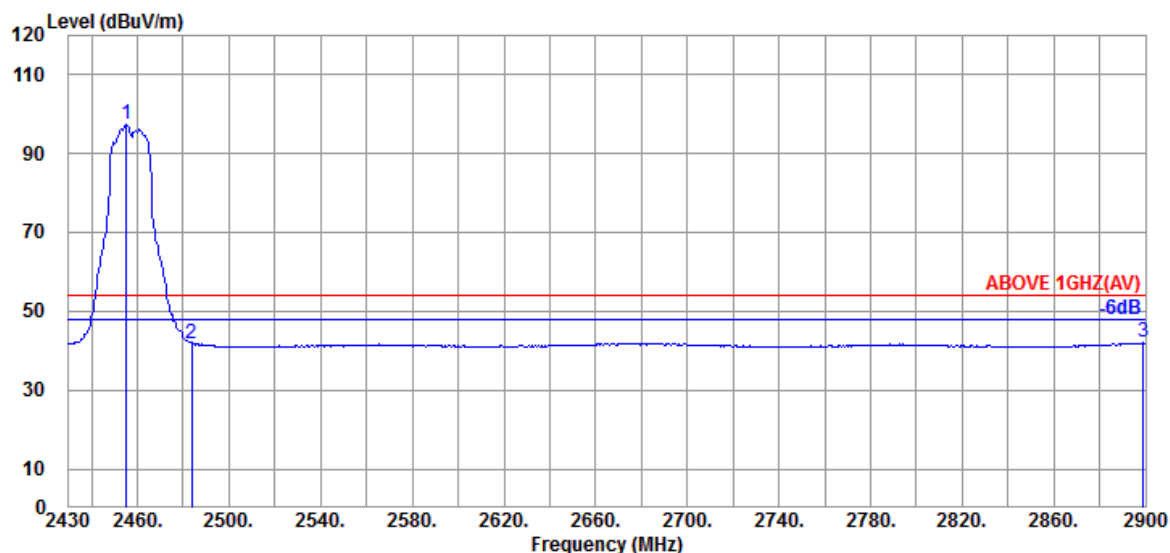
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11b	Frequency	TX 2457MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2458.200	28.60	8.57	69.12	106.29	---	---	Peak
2483.580	28.70	8.58	15.24	52.52	74.00	21.48	Peak
2665.470	28.97	8.63	17.27	54.87	74.00	19.13	Peak

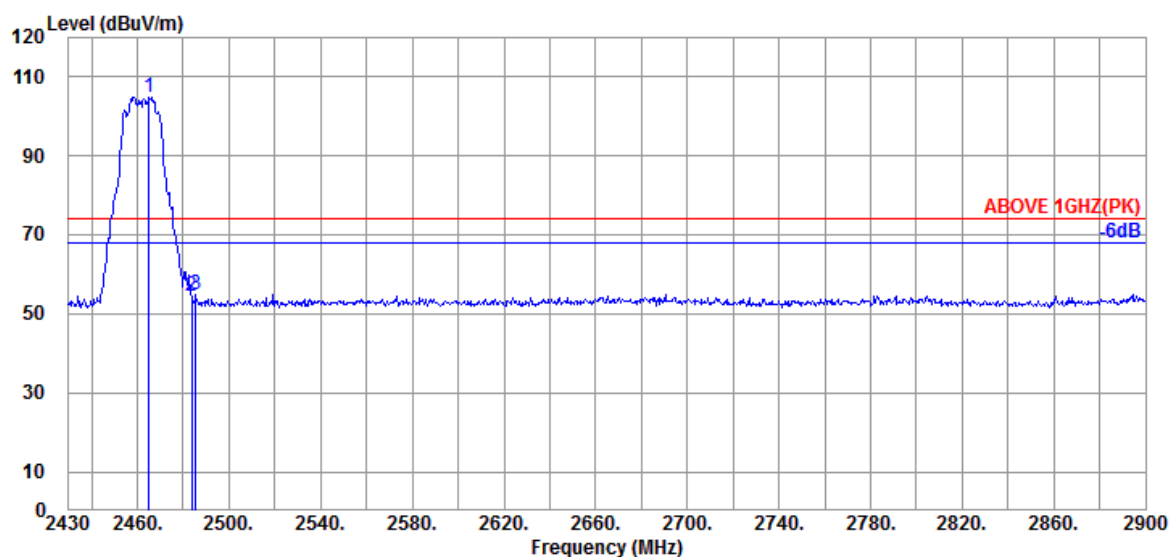


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2455.380	28.60	8.57	60.15	97.32	---	---	Average
2483.580	28.70	8.58	4.57	41.85	54.00	12.15	Average
2899.060	29.60	8.69	3.72	42.01	54.00	11.99	Average

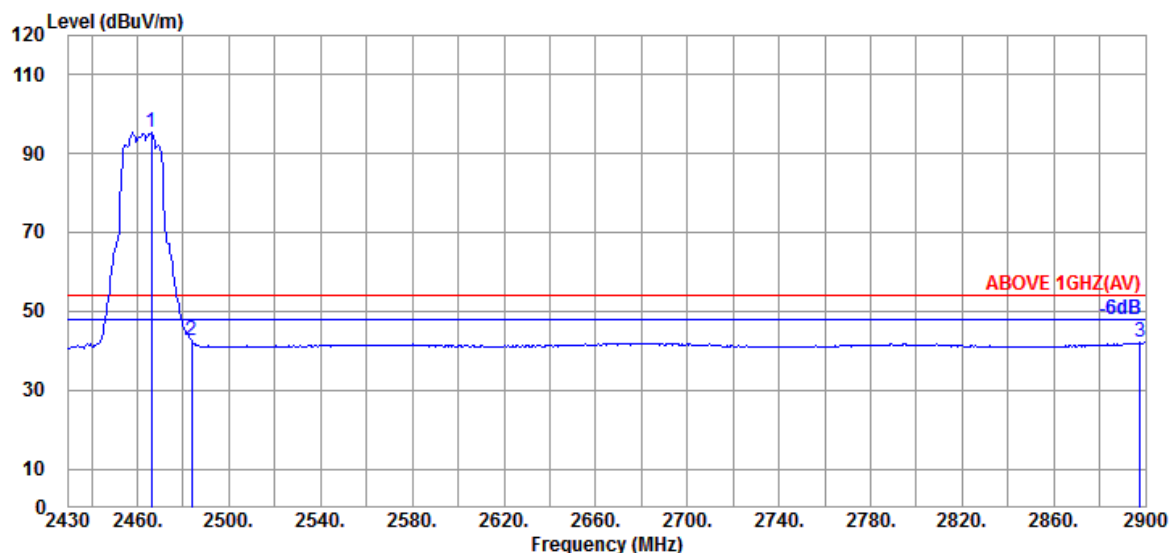
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2465.250	28.60	8.57	67.84	105.01	---	---	Peak
	2483.580	28.70	8.58	17.20	54.48	74.00	19.52	Peak
	2485.460	28.70	8.58	17.67	54.95	74.00	19.05	Peak

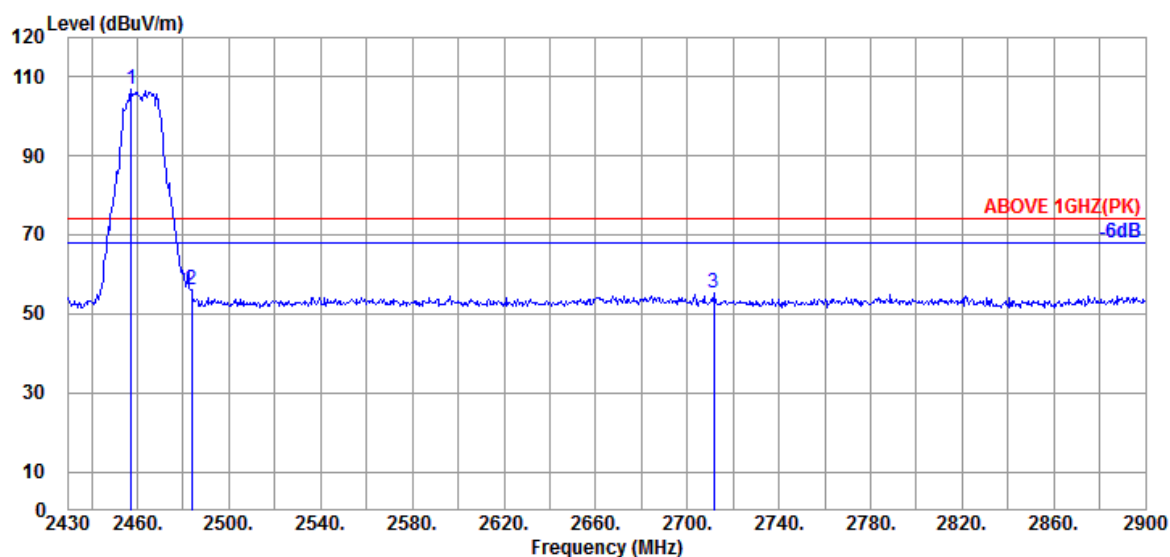


Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2466.190	28.60	8.57	58.19	95.36	---	---	Average
	2483.580	28.70	8.58	5.35	42.63	54.00	11.37	Average
	2897.650	29.60	8.69	3.76	42.05	54.00	11.95	Average

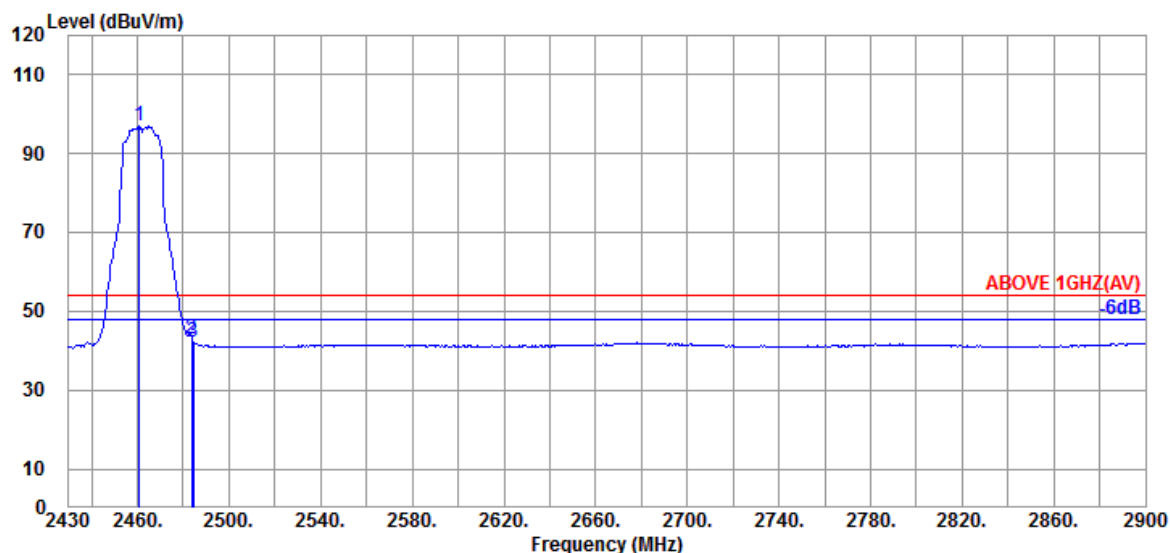
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2457.260	28.60	8.57	69.78	106.95	---	---	Peak
	2483.580	28.70	8.58	18.81	56.09	74.00	17.91	Peak
	2711.530	29.03	8.64	17.42	55.09	74.00	18.91	Peak

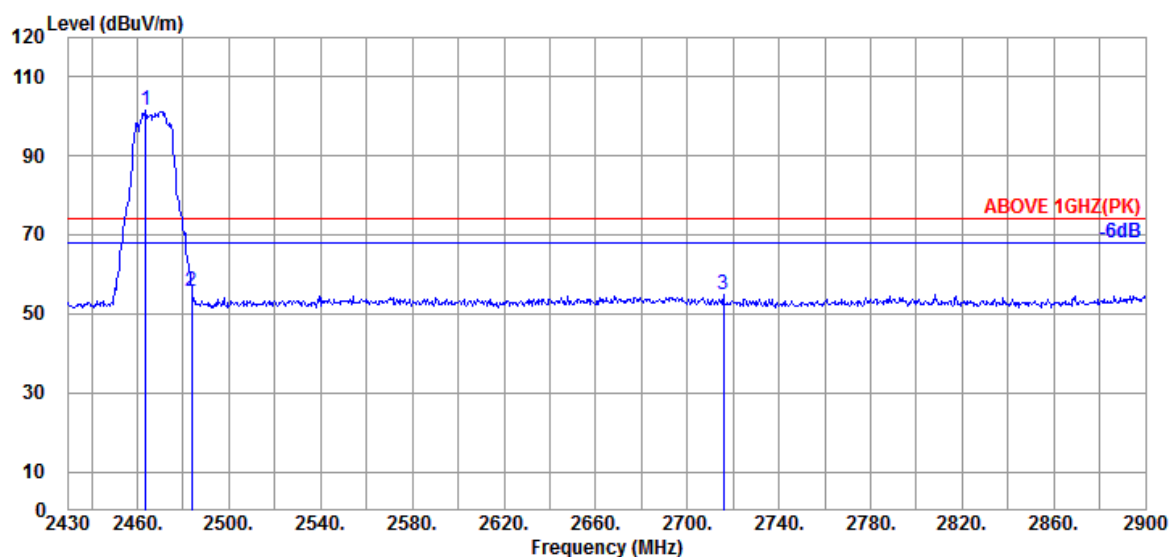


Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2461.020	28.60	8.57	59.99	97.16	---	---	Average
	2483.580	28.70	8.58	5.72	43.00	54.00	11.00	Average
	2484.520	28.70	8.58	4.82	42.10	54.00	11.90	Average

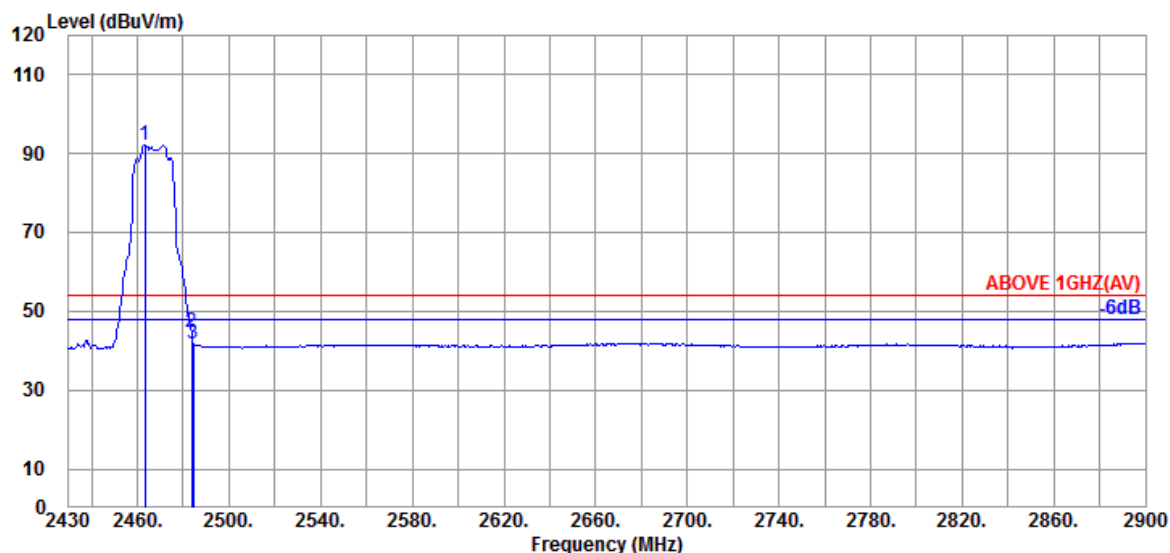
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2467MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2463.840	28.60	8.57	64.38	101.55	---	---	Peak
	2483.580	28.70	8.58	18.61	55.89	74.00	18.11	Peak
	2715.760	29.03	8.64	17.19	54.86	74.00	19.14	Peak

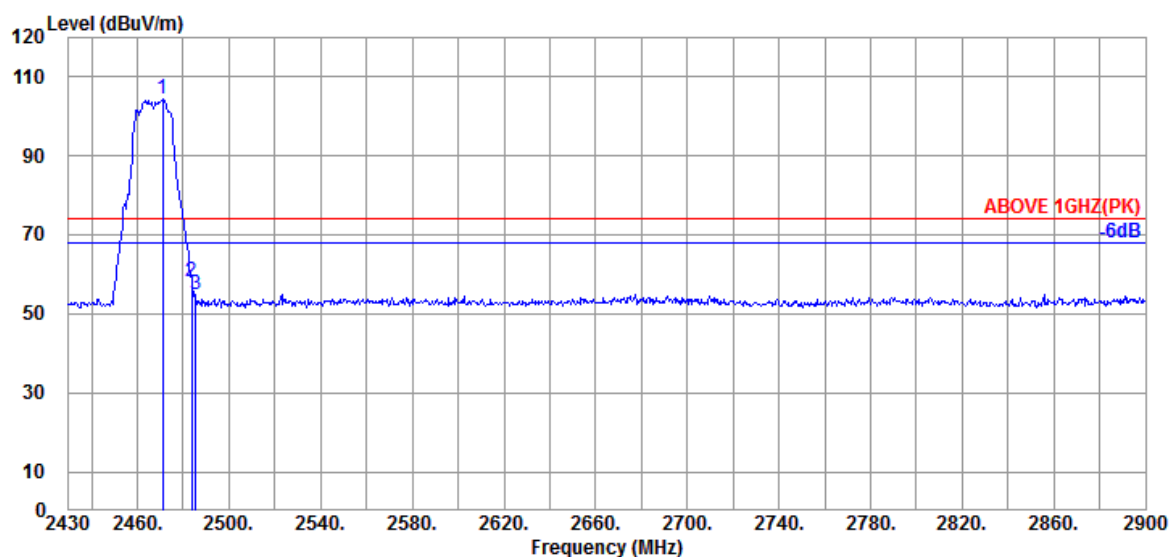


Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2463.370	28.60	8.57	55.07	92.24	---	---	Average
	2483.580	28.70	8.58	7.16	44.44	54.00	9.56	Average
	2484.520	28.70	8.58	4.67	41.95	54.00	12.05	Average

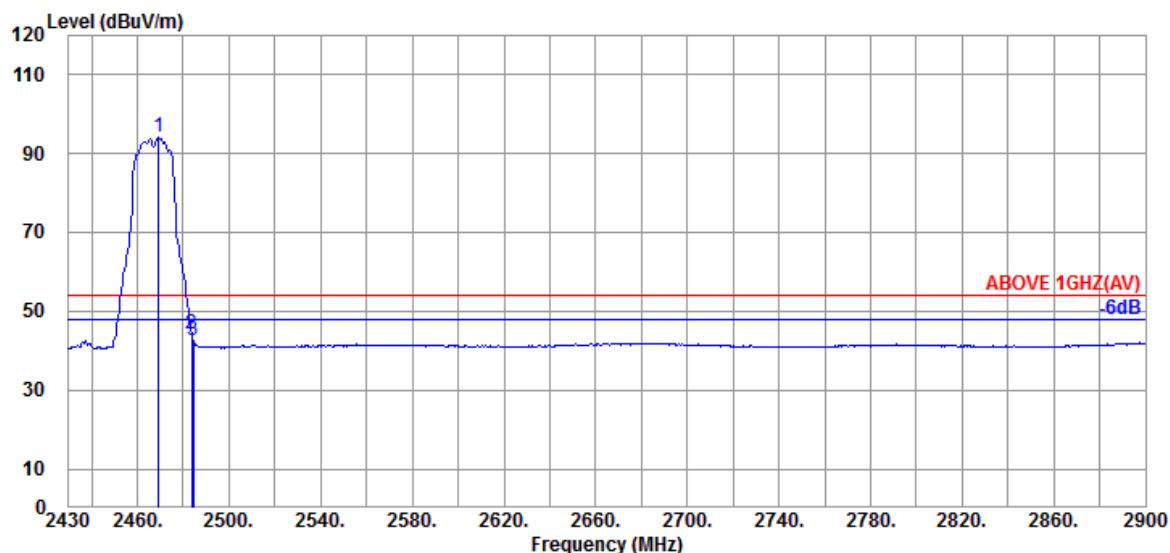
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2467MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2470.890	28.70	8.58	67.04	104.32	---	---	Peak
	2483.580	28.70	8.58	21.05	58.33	74.00	15.67	Peak
	2485.460	28.70	8.58	17.76	55.04	74.00	18.96	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2469.480	28.60	8.57	56.91	94.08	---	---	Average
	2483.580	28.70	8.58	6.79	44.07	54.00	9.93	Average
	2484.520	28.70	8.58	5.21	42.49	54.00	11.51	Average

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

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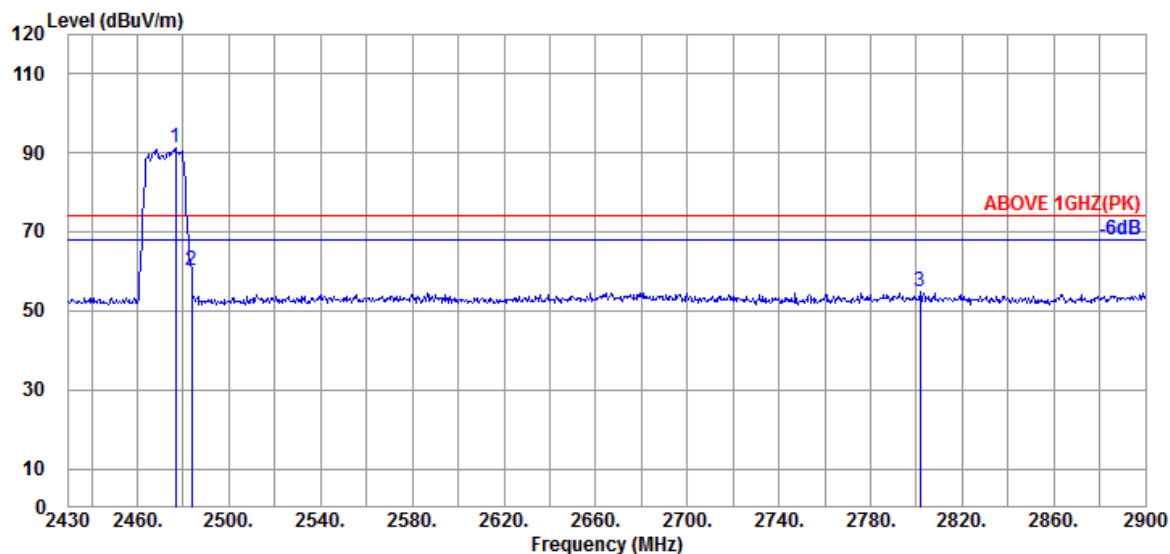
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Tel: +886 2 26099301

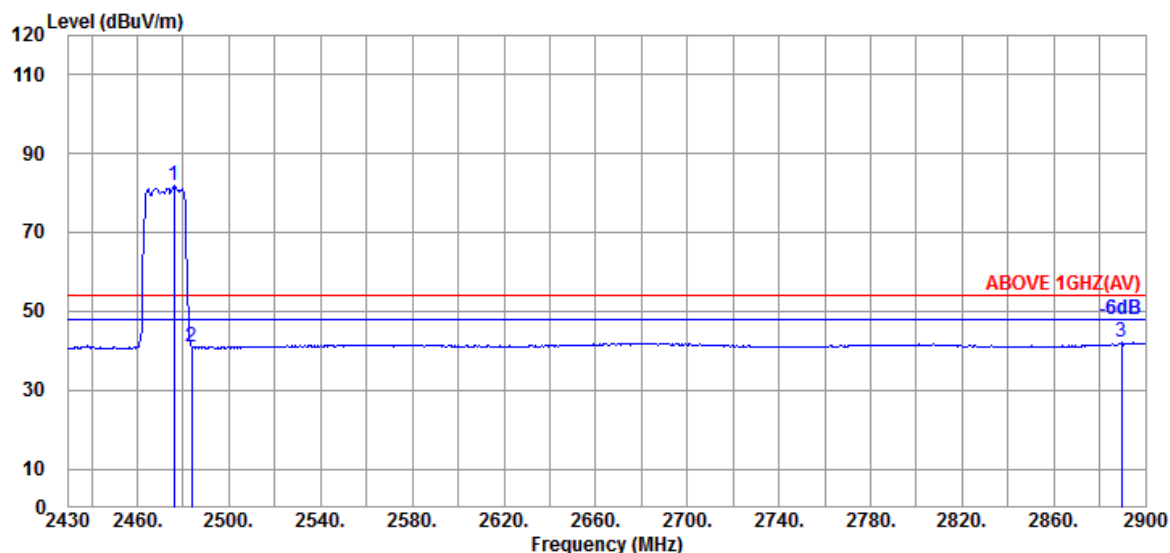
Fax: +886 2 26099303

Mode	802.11g	Frequency	TX 2472MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2476.530	28.70	8.58	54.06	91.34	---	---	Peak
	2483.580	28.70	8.58	22.78	60.06	74.00	13.94	Peak
	2801.770	29.10	8.66	17.25	55.01	74.00	18.99	Peak



Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2476.060	28.70	8.58	44.46	81.74	---	---	Average
	2483.580	28.70	8.58	3.59	40.87	54.00	13.13	Average
	2889.660	29.43	8.68	3.92	42.03	54.00	11.97	Average

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

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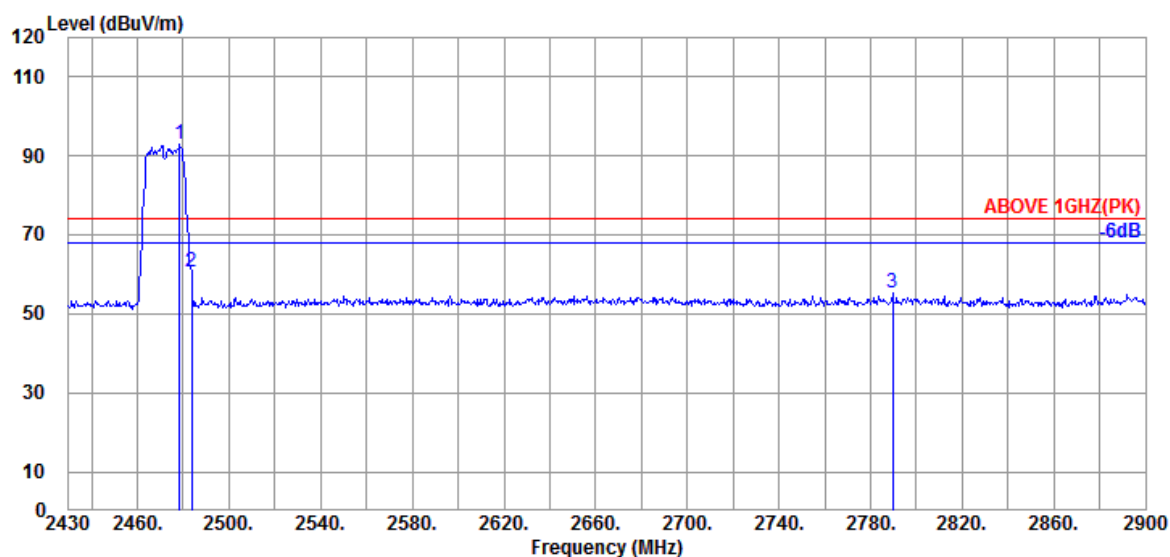
Report Number: EM-F200116

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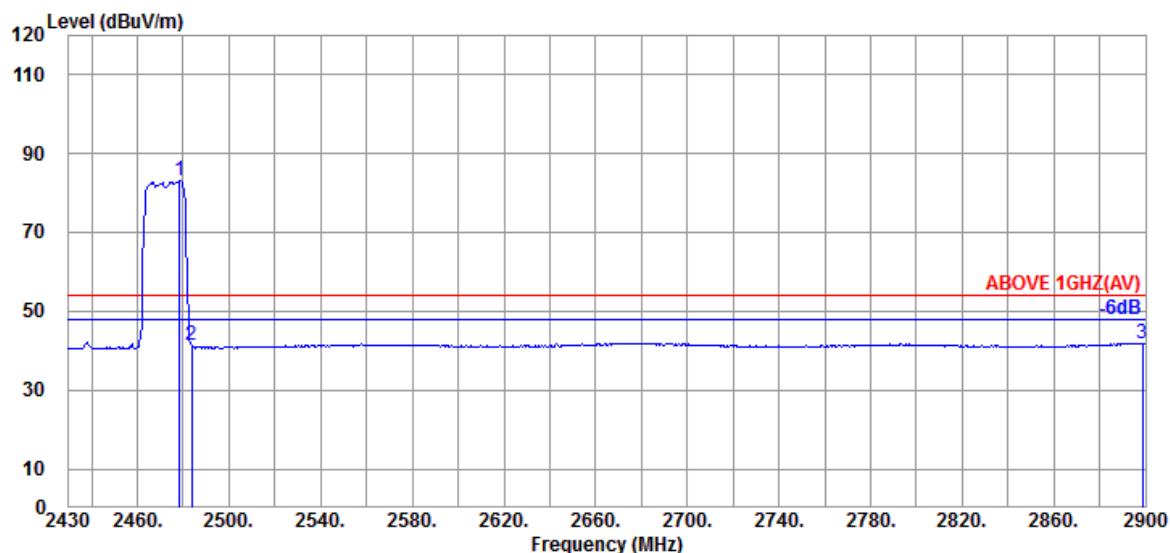
Tel: +886 2 26099301
Fax: +886 2 26099303

Mode	802.11g	Frequency	TX 2472MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2478.410	28.70	8.58	55.54	92.82	---	---	Peak
	2483.580	28.70	8.58	23.37	60.65	74.00	13.35	Peak
	2789.550	29.03	8.66	17.66	55.35	74.00	18.65	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2478.410	28.70	8.58	45.91	83.19	---	---	Average
	2483.580	28.70	8.58	3.95	41.23	54.00	12.77	Average
	2898.590	29.60	8.69	3.64	41.93	54.00	12.07	Average

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

File Number: C1M2003035

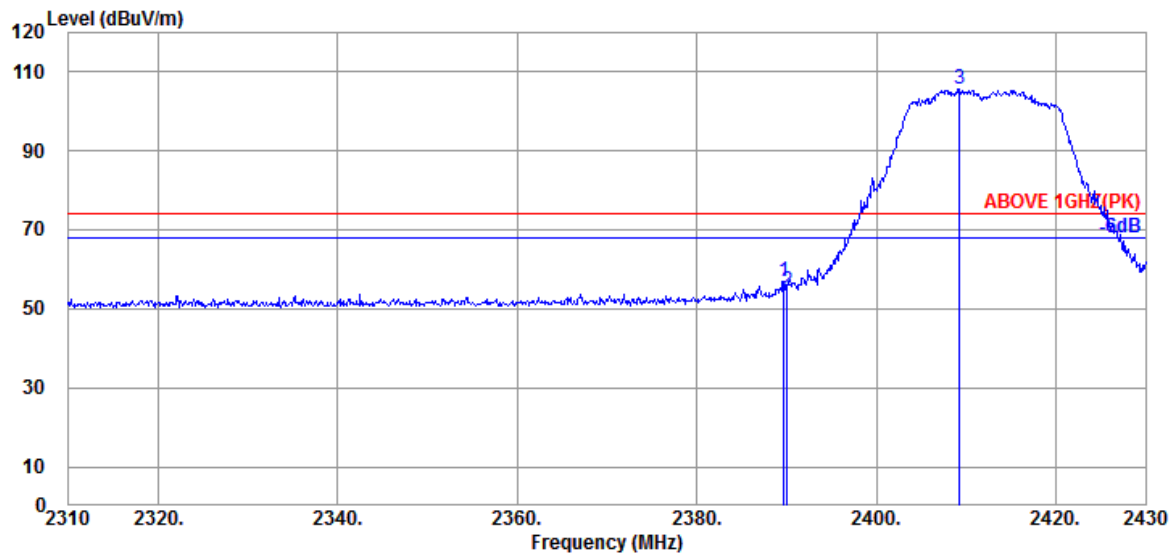
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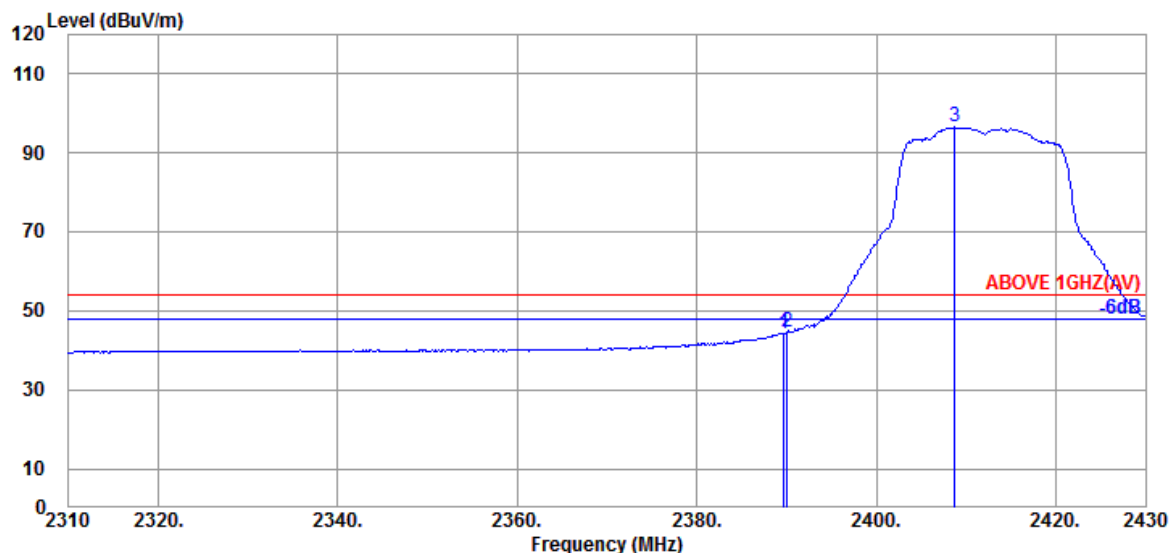
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Fax: +886 2 26099303

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.680	28.40	8.52	20.16	57.08	74.00	16.92	Peak
2390.040	28.40	8.52	17.35	54.27	74.00	19.73	Peak
@ 2409.240	28.43	8.53	68.79	105.75	---	---	Peak



Antenna at Horizontal Polarization

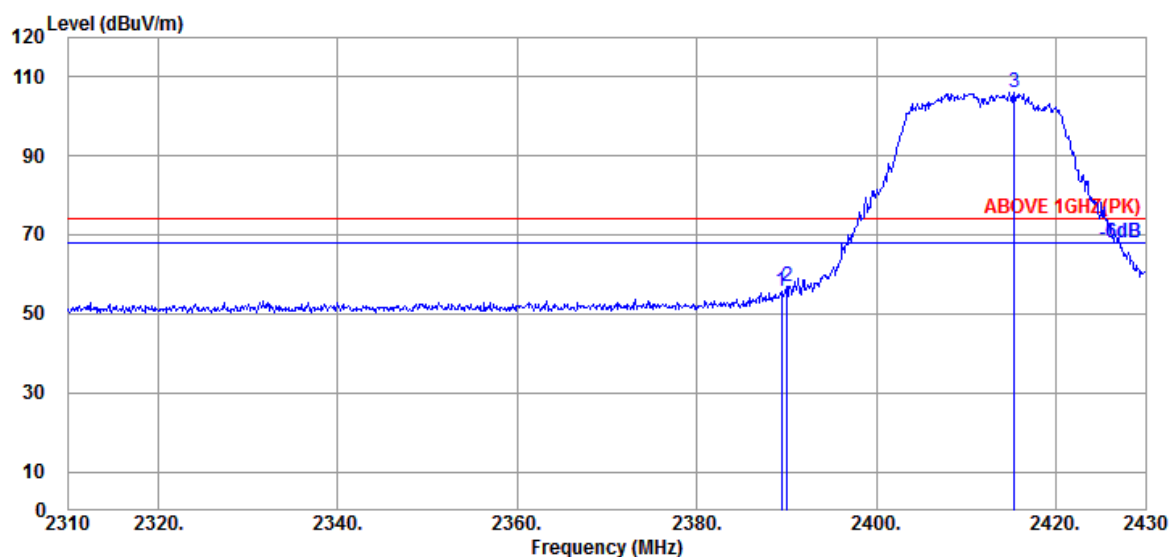
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.680	28.40	8.52	7.38	44.30	54.00	9.70	Average
2390.040	28.40	8.52	7.58	44.50	54.00	9.50	Average
@ 2408.760	28.43	8.53	59.56	96.52	---	---	Average

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

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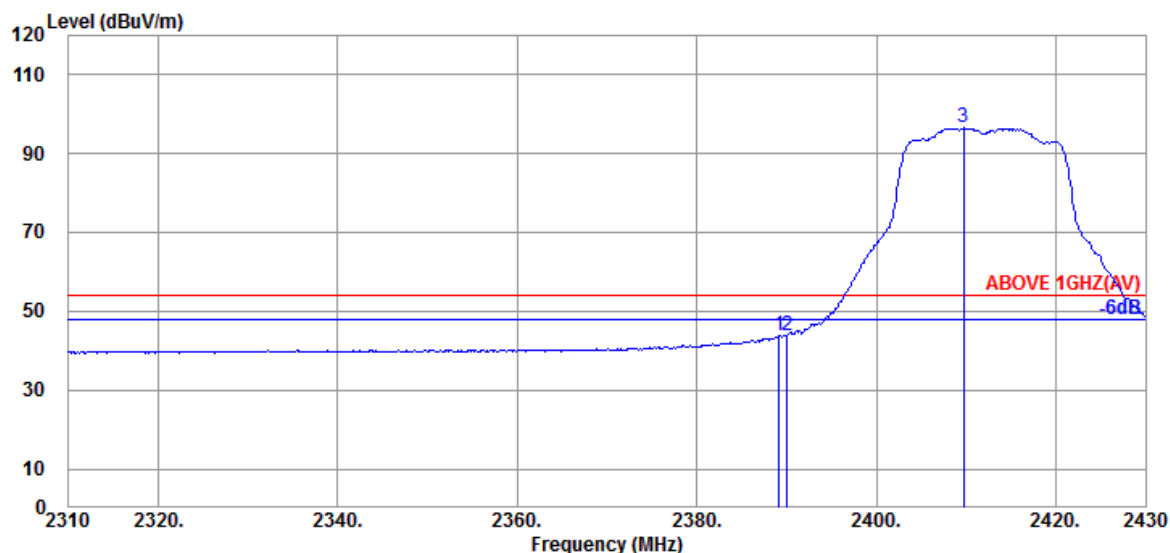
Tel: +886 2 26099301
Fax: +886 2 26099303

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.440	28.40	8.52	18.74	55.66	74.00	18.34	Peak
2390.040	28.40	8.52	19.88	56.80	74.00	17.20	Peak
@ 2415.360	28.43	8.53	69.07	106.03	---	---	Peak



Antenna at Vertical Polarization

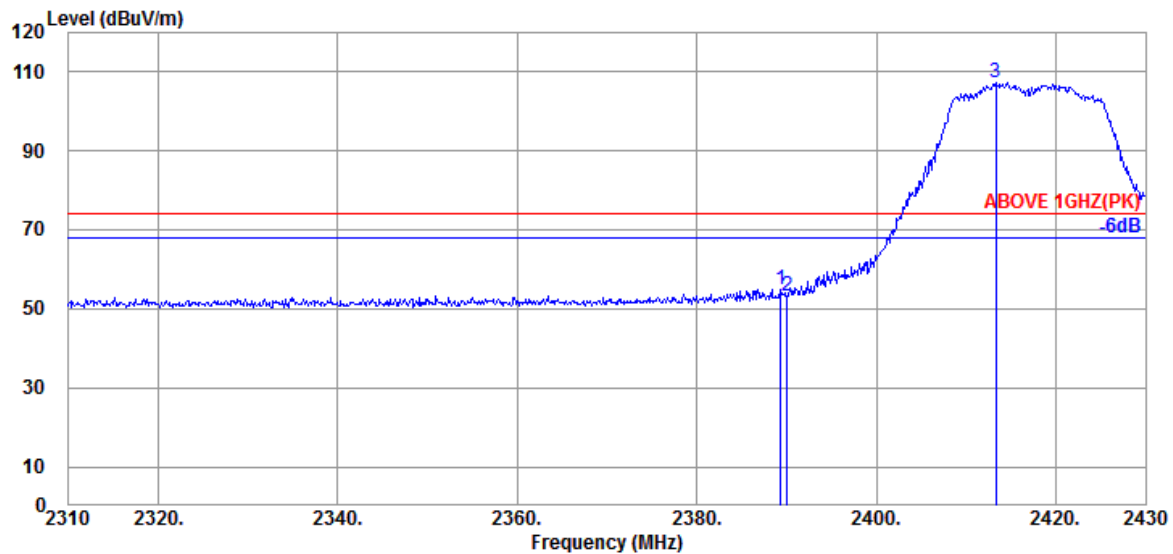
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.200	28.40	8.52	6.93	43.85	54.00	10.15	Average
2390.040	28.40	8.52	6.77	43.69	54.00	10.31	Average
@ 2409.720	28.43	8.53	59.52	96.48	---	---	Average

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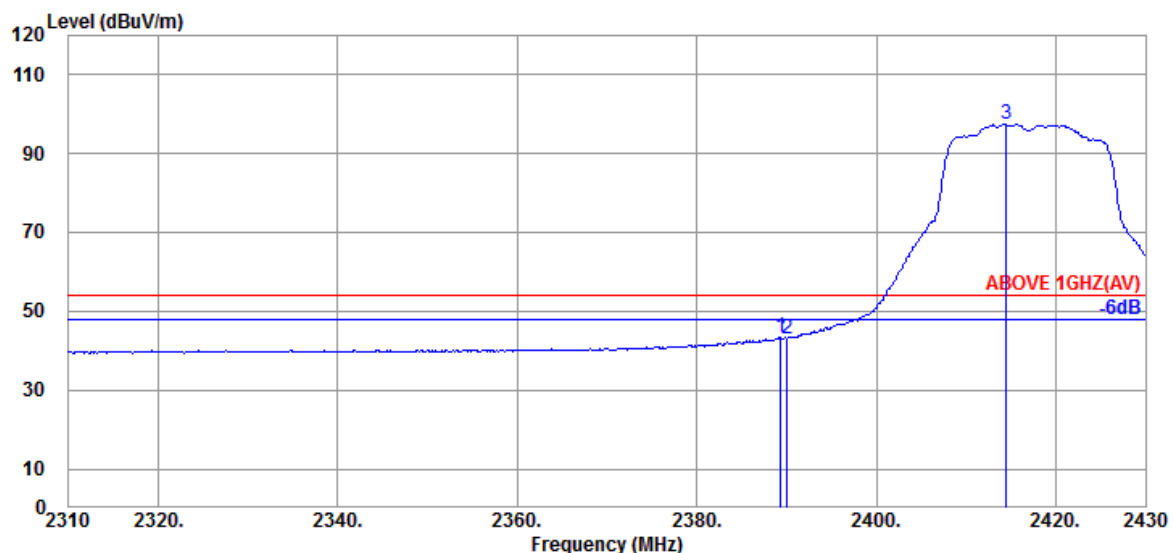
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Fax: +886 2 26099303

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)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.320	28.40	8.52	18.15	55.07	74.00	18.93	Peak
2390.040	28.40	8.52	16.47	53.39	74.00	20.61	Peak
@ 2413.320	28.43	8.53	70.28	107.24	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.320	28.40	8.52	6.32	43.24	54.00	10.76	Average
2390.040	28.40	8.52	6.25	43.17	54.00	10.83	Average
@ 2414.520	28.43	8.53	60.51	97.47	---	---	Average

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

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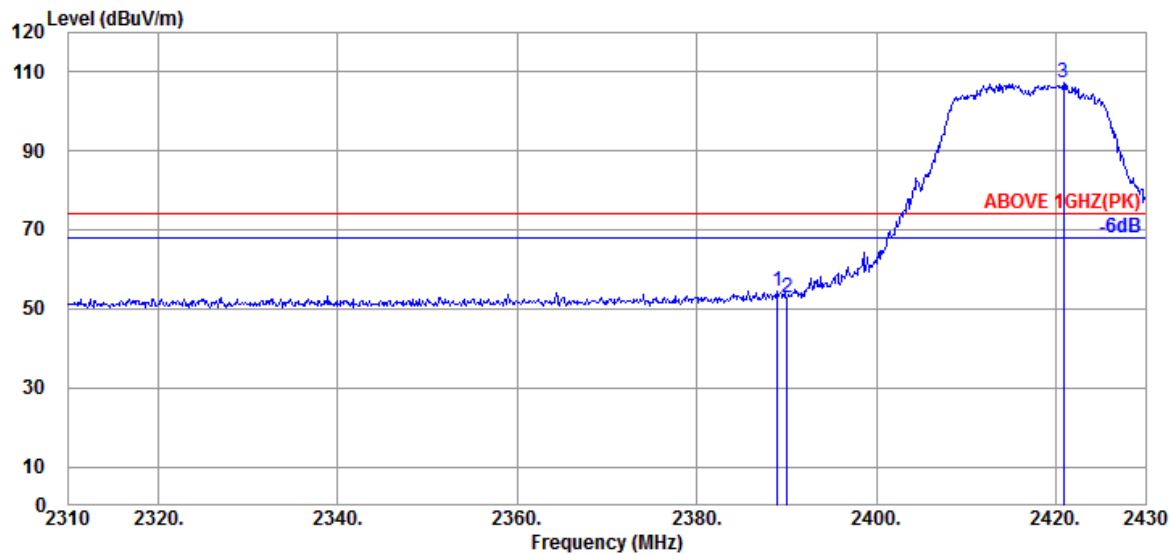
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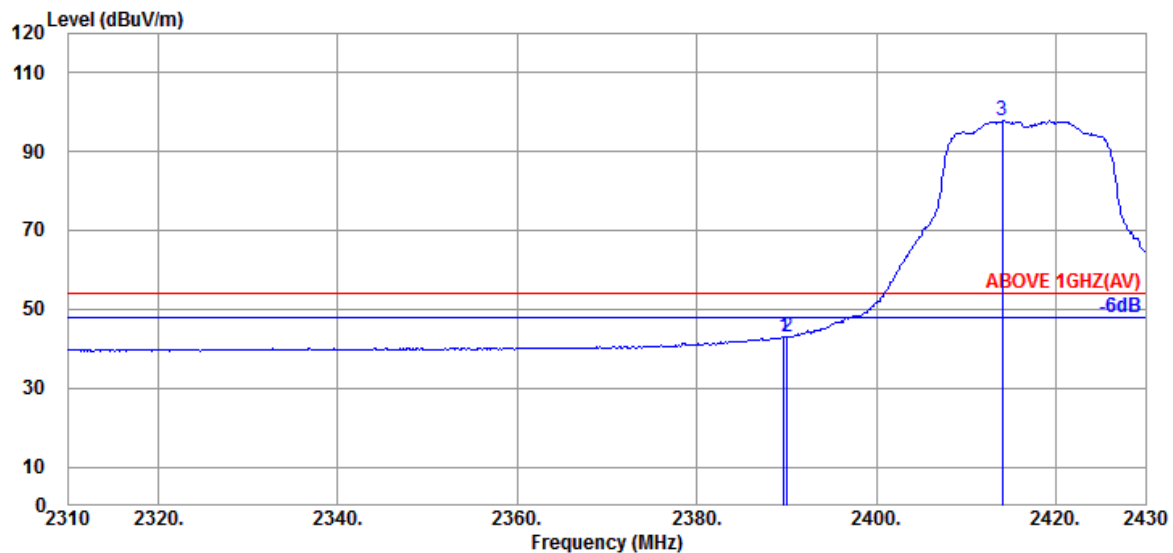
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Mode	802.11n-HT20	Frequency	TX 2417MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2388.960	28.40	8.52	17.48	54.40	74.00	19.60	Peak
2390.040	28.40	8.52	15.99	52.91	74.00	21.09	Peak
@ 2420.880	28.47	8.54	70.24	107.25	---	---	Peak



Antenna at Vertical Polarization

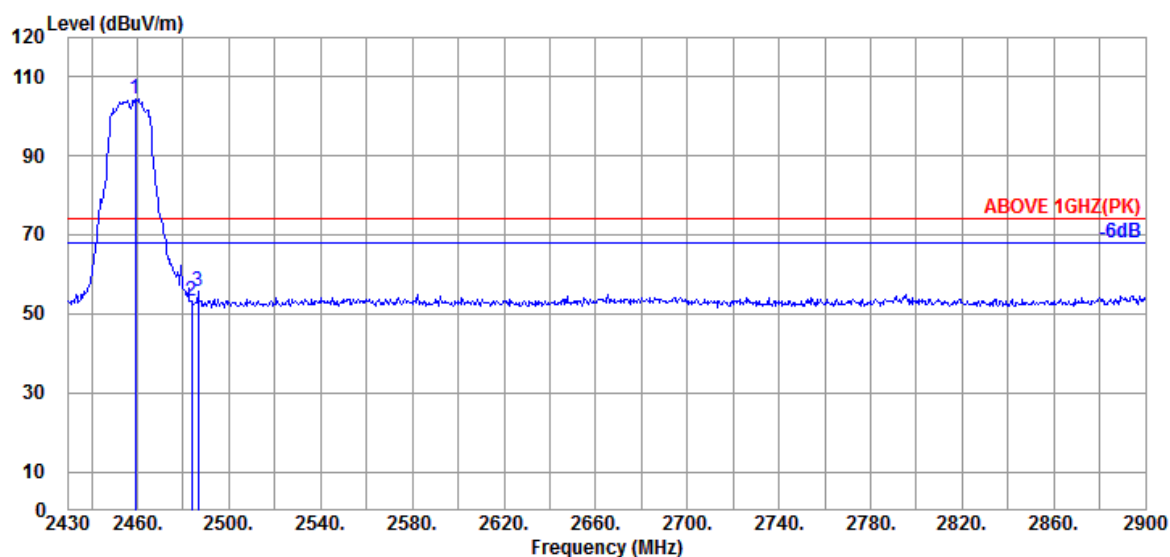
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.680	28.40	8.52	6.07	42.99	54.00	11.01	Average
2390.040	28.40	8.52	6.09	43.01	54.00	10.99	Average
@ 2414.040	28.43	8.53	60.81	97.77	---	---	Average

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

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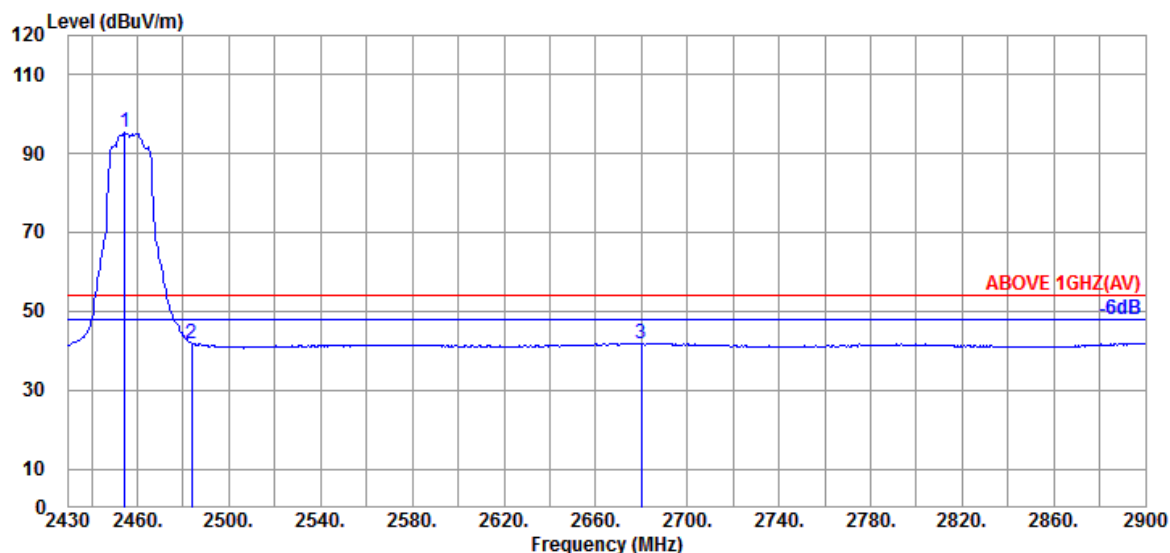
Tel: +886 2 26099301
Fax: +886 2 26099303

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

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2459.140	28.60	8.57	67.24	104.41	---	---	Peak
	2483.580	28.70	8.58	15.80	53.08	74.00	20.92	Peak
	2486.400	28.70	8.58	18.40	55.68	74.00	18.32	Peak



Antenna at Horizontal Polarization

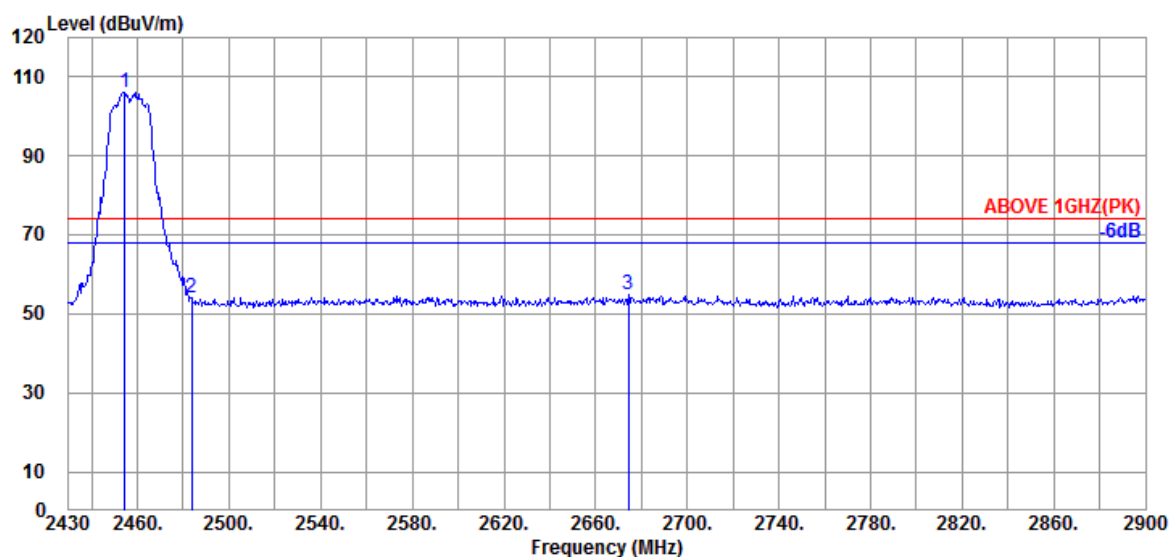
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@	2454.440	28.60	8.57	58.06	95.23	---	---	Average
	2483.580	28.70	8.58	4.57	41.85	54.00	12.15	Average
	2680.040	29.03	8.63	4.32	41.98	54.00	12.02	Average

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

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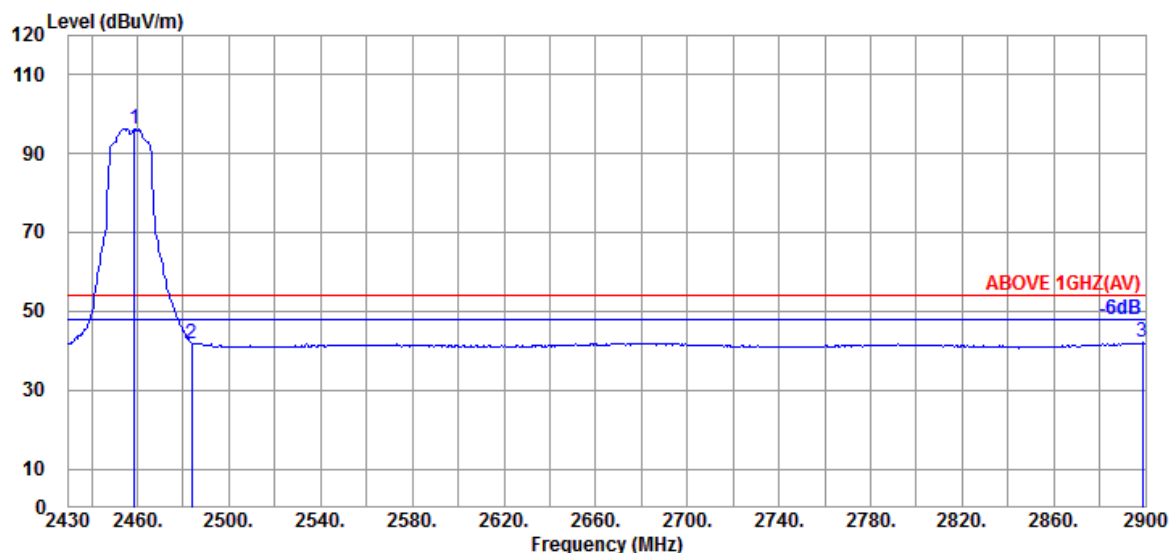
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Fax: +886 2 26099303

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

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2454.440	28.60	8.57	68.82	105.99	---	---	Peak
	2483.580	28.70	8.58	16.91	54.19	74.00	19.81	Peak
	2674.400	28.97	8.63	17.40	55.00	74.00	19.00	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2458.670	28.60	8.57	59.02	96.19	---	---	Average
	2483.580	28.70	8.58	4.60	41.88	54.00	12.12	Average
	2898.590	29.60	8.69	3.77	42.06	54.00	11.94	Average

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

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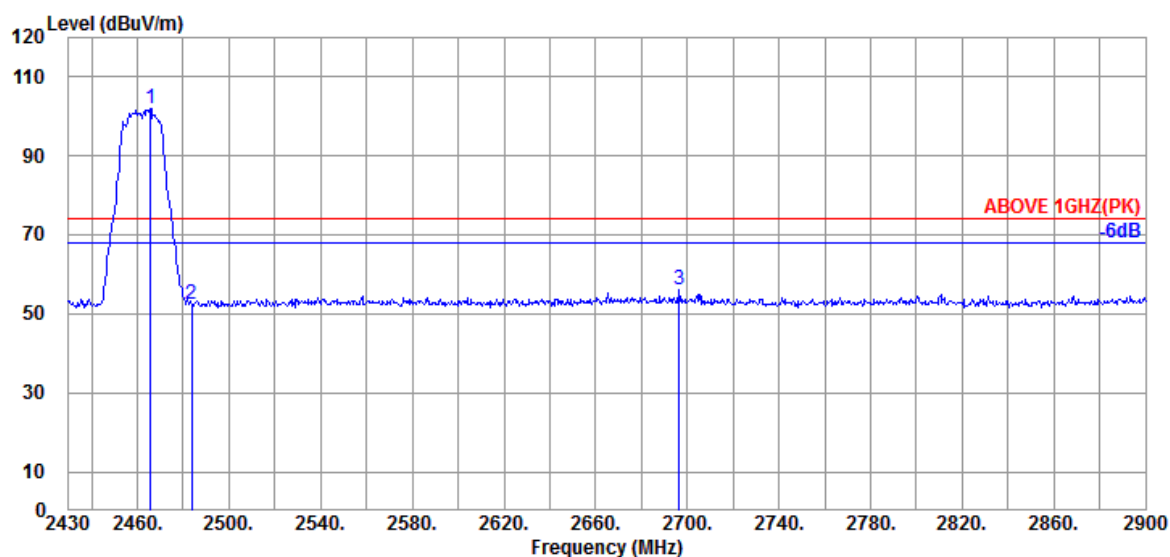
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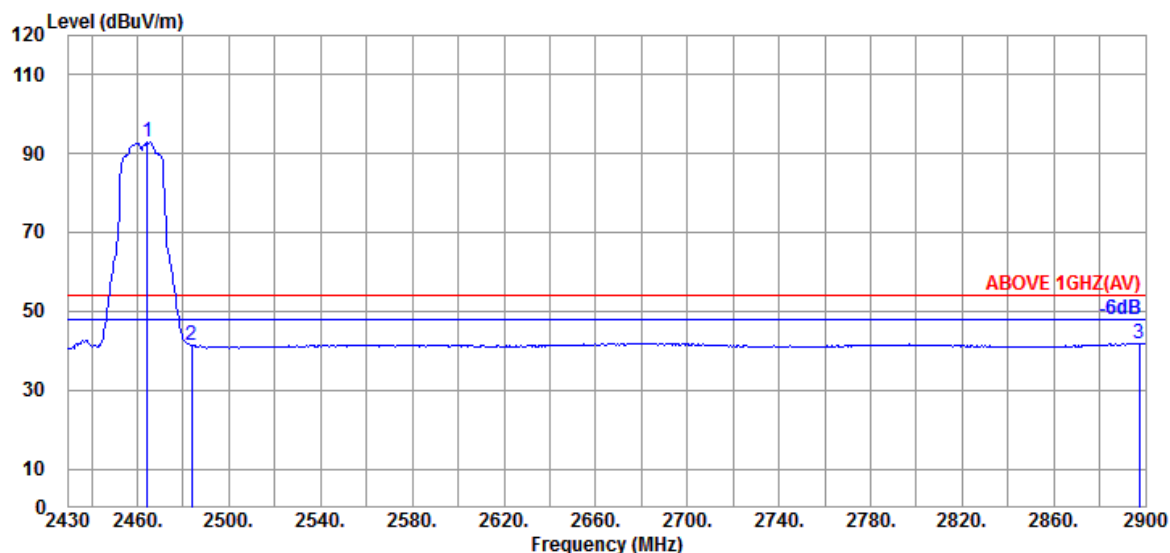
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Mode	802.11n-HT20	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2465.720	28.59	8.57	64.82	101.98	---	---	Peak
	2483.580	28.70	8.58	15.04	52.32	74.00	21.68	Peak
	2696.490	29.09	8.64	18.29	56.02	74.00	17.98	Peak



Antenna at Horizontal Polarization

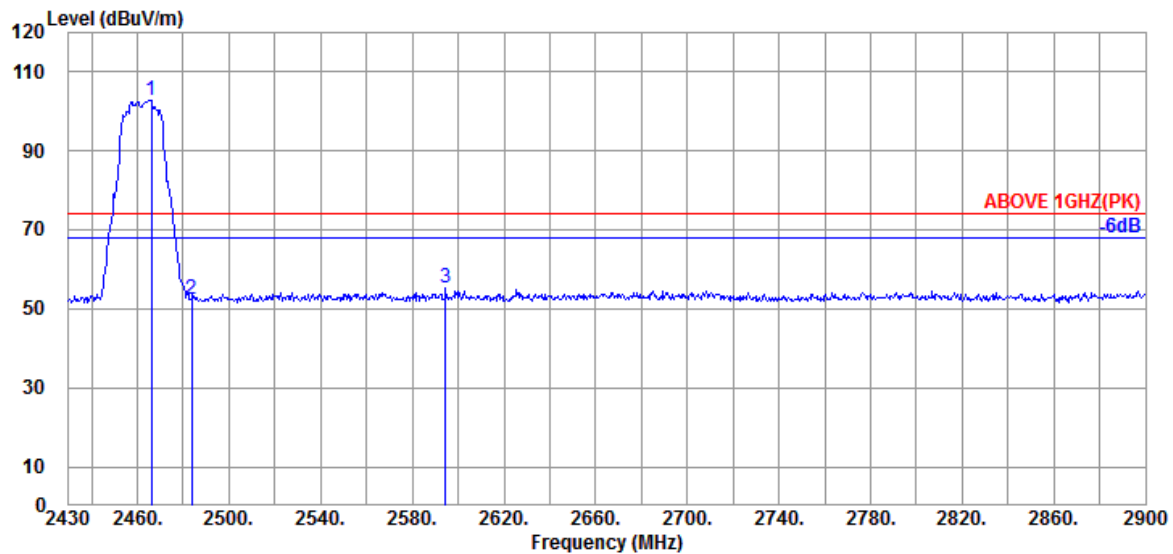
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2464.310	28.59	8.57	55.75	92.91	---	---	Average
	2483.580	28.70	8.58	4.16	41.44	54.00	12.56	Average
	2897.180	29.57	8.69	3.70	41.96	54.00	12.04	Average

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

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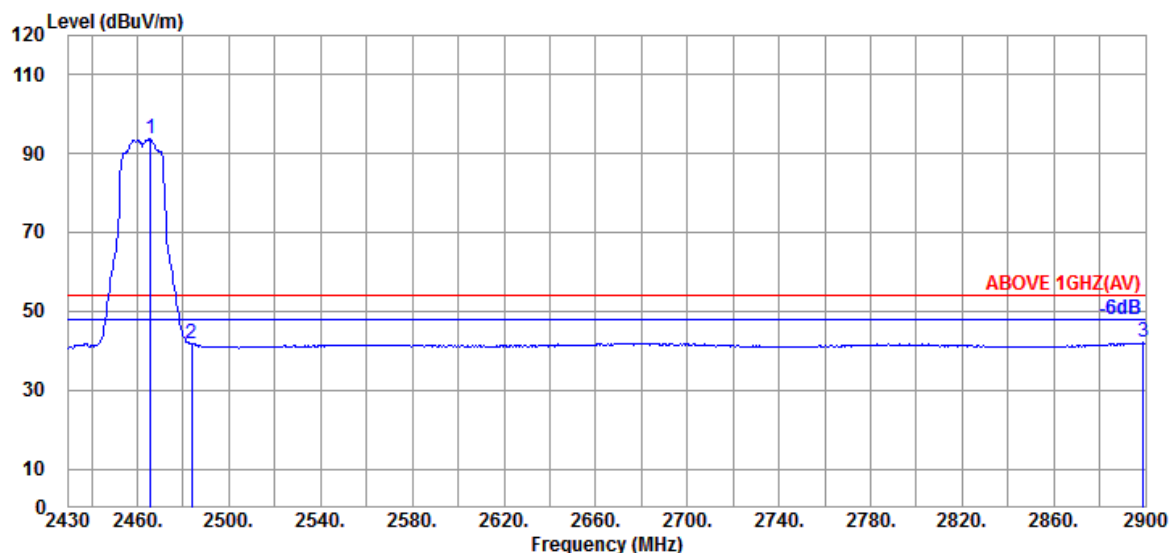
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Fax: +886 2 26099303

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

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2466.190	28.60	8.57	65.73	102.90	---	---	Peak
	2483.580	28.70	8.58	15.29	52.57	74.00	21.43	Peak
	2594.500	29.08	8.61	17.54	55.23	74.00	18.77	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2465.720	28.59	8.57	56.60	93.76	---	---	Average
	2483.580	28.70	8.58	4.61	41.89	54.00	12.11	Average
	2899.060	29.59	8.69	3.72	42.00	54.00	12.00	Average

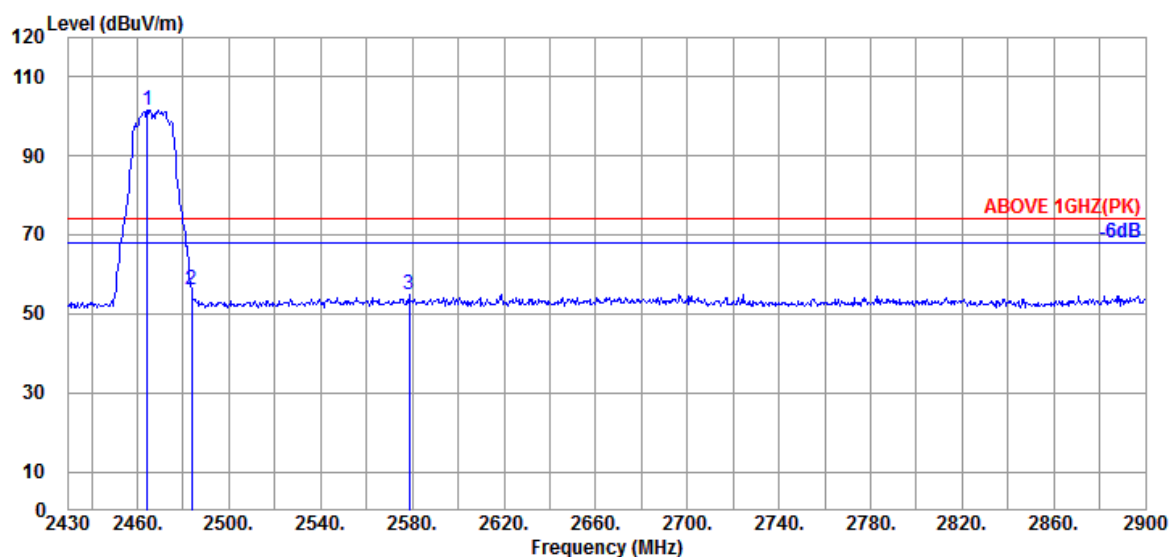
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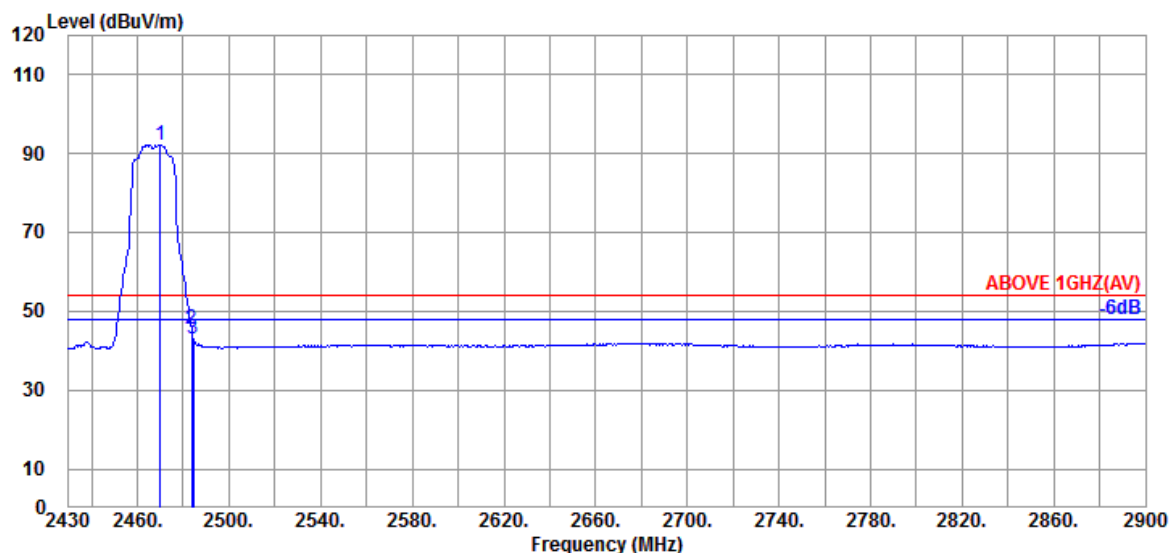
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Mode	802.11n-HT20	Frequency	TX 2467MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2464.310	28.59	8.57	64.55	101.71	---	---	Peak
	2483.580	28.70	8.58	18.91	56.19	74.00	17.81	Peak
	2578.520	29.01	8.61	17.31	54.93	74.00	19.07	Peak



Antenna at Horizontal Polarization

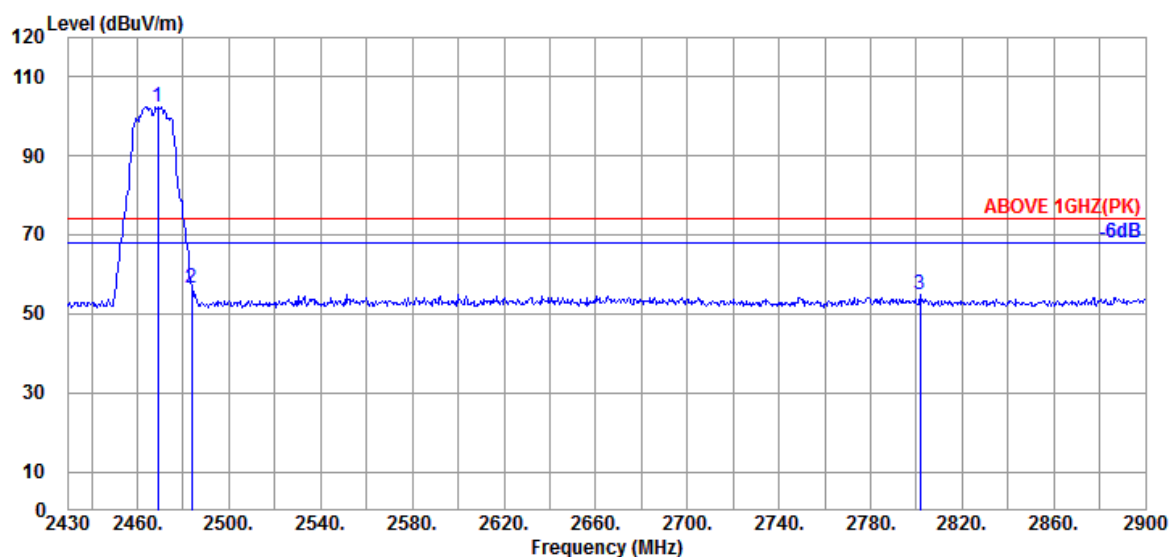
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2469.950	28.62	8.57	55.03	92.22	---	---	Average
	2483.580	28.70	8.58	8.03	45.31	54.00	8.69	Average
	2484.520	28.71	8.58	5.88	43.17	54.00	10.83	Average

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

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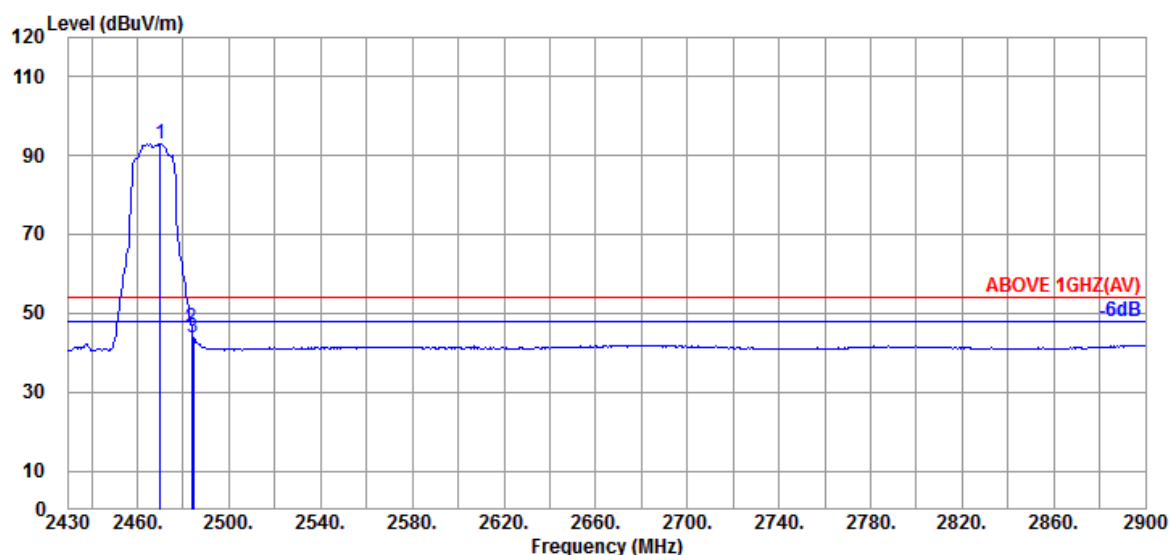
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Fax: +886 2 26099303

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

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2469.010	28.61	8.57	65.25	102.43	---	---	Peak
	2483.580	28.70	8.58	19.37	56.65	74.00	17.35	Peak
	2801.770	29.10	8.66	17.13	54.89	74.00	19.11	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2469.950	28.62	8.57	55.78	92.97	---	---	Average
	2483.580	28.70	8.58	8.95	46.23	54.00	7.77	Average
	2484.520	28.71	8.58	6.57	43.86	54.00	10.14	Average

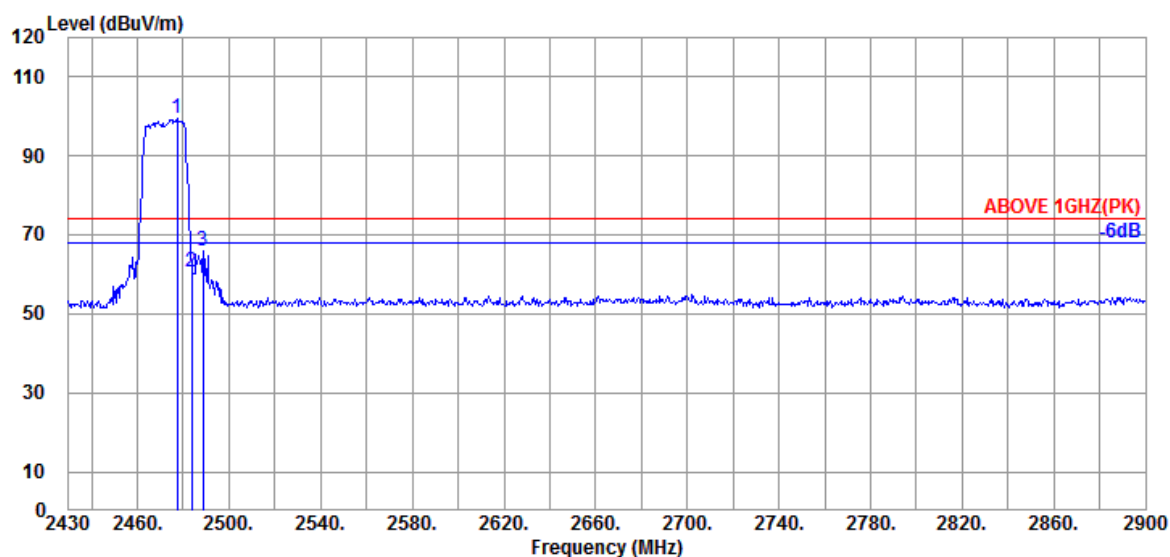
Remark: The “@” means fundamental frequency, it is ignored in this section.

File Number: C1M2003035

Report Number: EM-F200116

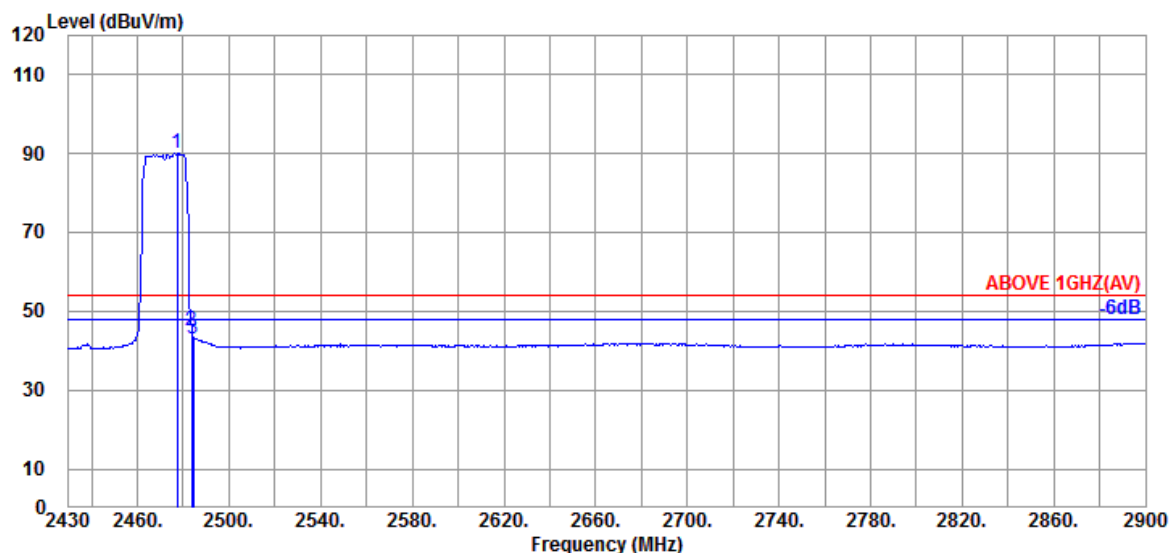
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Mode	802.11n-HT20	Frequency	TX 2472MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2477.470	28.66	8.58	62.10	99.34	---	---	Peak
	2483.580	28.70	8.58	23.28	60.56	74.00	13.44	Peak
	2488.750	28.73	8.59	28.70	66.02	74.00	7.98	Peak



Antenna at Horizontal Polarization

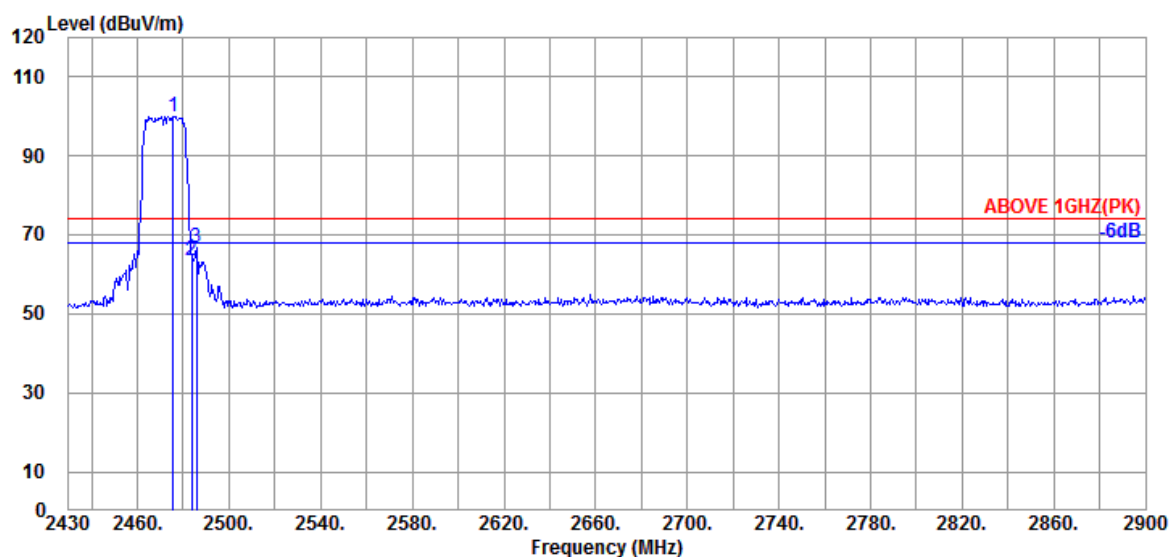
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2477.470	28.66	8.58	52.77	90.01	---	---	Average
	2483.580	28.70	8.58	7.70	44.98	54.00	9.02	Average
	2484.520	28.71	8.58	5.82	43.11	54.00	10.89	Average

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

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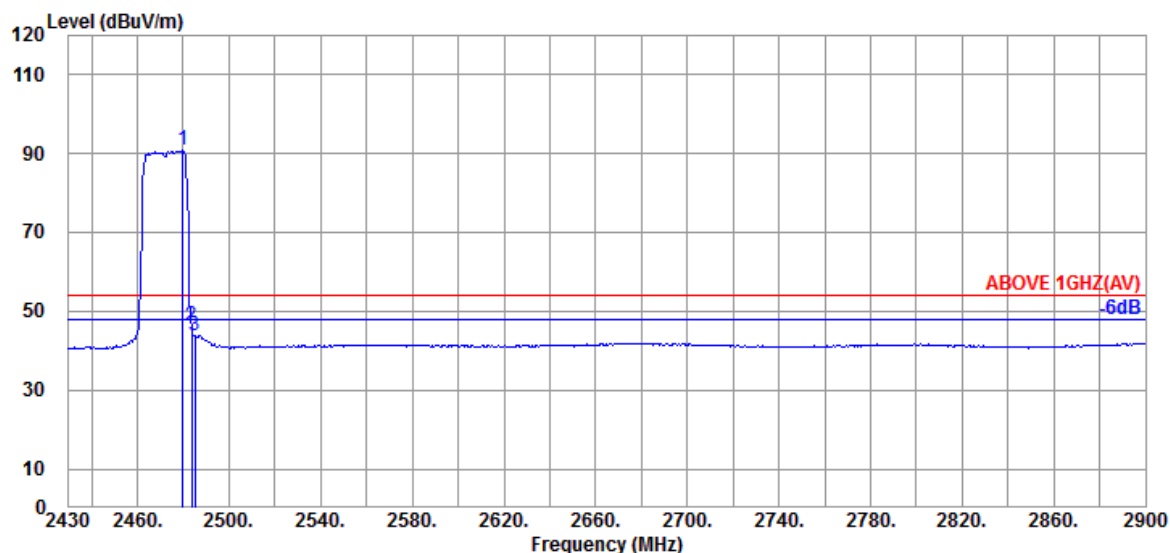
Tel: +886 2 26099301
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Mode	802.11n-HT20	Frequency	TX 2472MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2475.590	28.65	8.58	62.89	100.12	---	---	Peak
	2483.580	28.70	8.58	26.06	63.34	74.00	10.66	Peak
	2485.930	28.72	8.58	29.57	66.87	74.00	7.13	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2479.820	28.68	8.58	53.61	90.87	---	---	Average
	2483.580	28.70	8.58	8.80	46.08	54.00	7.92	Average
	2484.990	28.71	8.58	6.46	43.75	54.00	10.25	Average

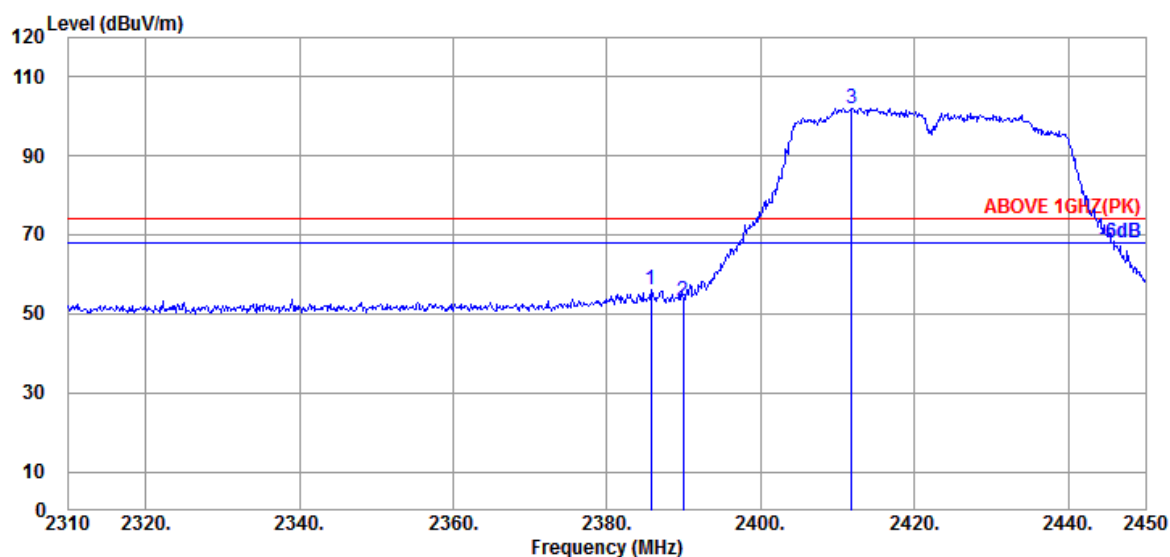
Remark: The “@” means fundamental frequency, it is ignored in this section.

File Number: C1M2003035

Report Number: EM-F200116

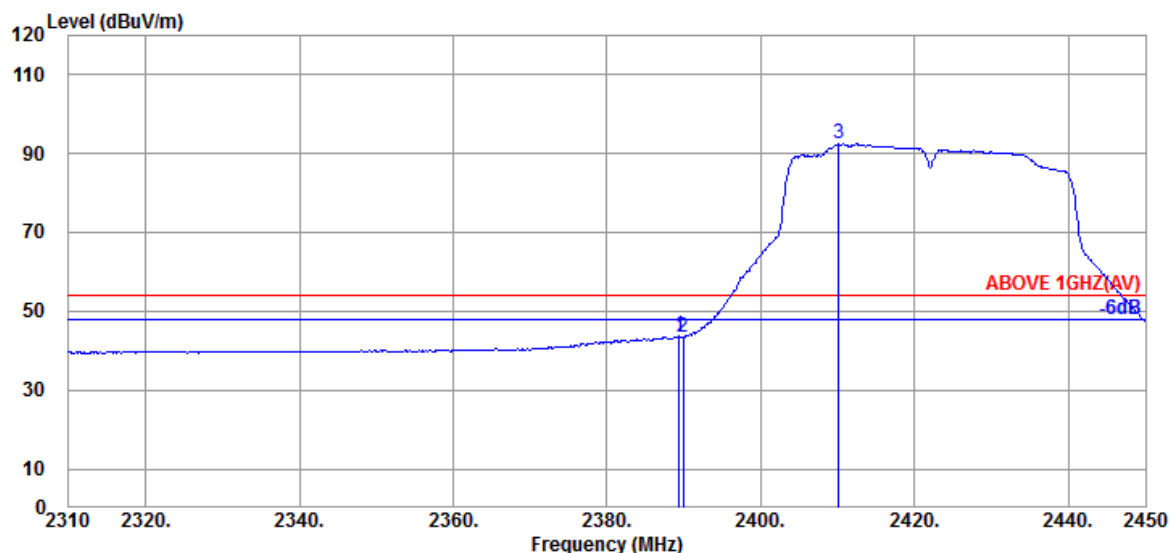
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Mode	802.11n-HT40	Frequency	TX 2422MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2385.740	28.29	8.52	19.30	56.11	74.00	17.89	Peak
2389.940	28.32	8.52	16.51	53.35	74.00	20.65	Peak
@ 2411.780	28.42	8.53	65.07	102.02	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.380	28.32	8.52	6.78	43.62	54.00	10.38	Average
2389.940	28.32	8.52	6.69	43.53	54.00	10.47	Average
@ 2410.100	28.42	8.53	55.51	92.46	---	---	Average

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

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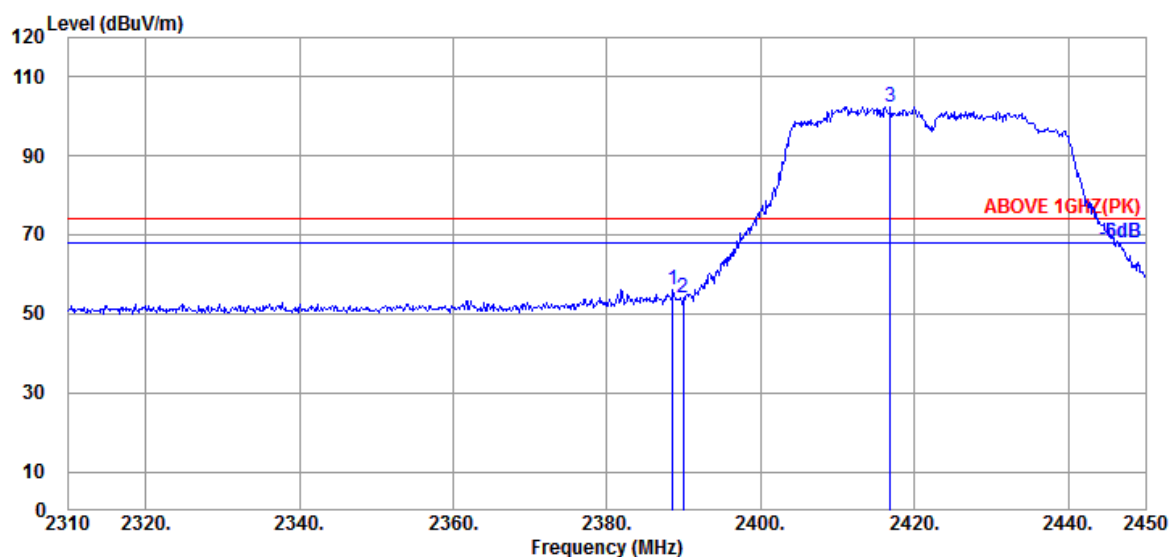
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New Taipei City 244, Taiwan

Tel: +886 2 26099301

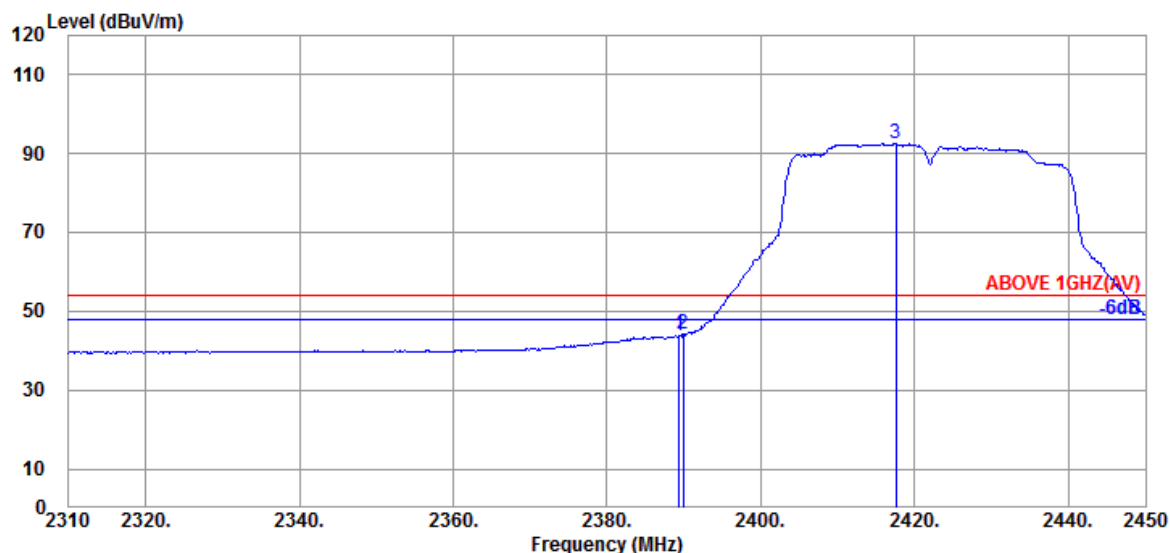
Fax: +886 2 26099303

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.540	28.31	8.52	19.39	56.22	74.00	17.78	Peak
2389.940	28.32	8.52	17.26	54.10	74.00	19.90	Peak
@ 2416.820	28.43	8.53	65.45	102.41	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.380	28.32	8.52	7.06	43.90	54.00	10.10	Average
2389.940	28.32	8.52	7.34	44.18	54.00	9.82	Average
@ 2417.520	28.44	8.53	55.59	92.56	---	---	Average

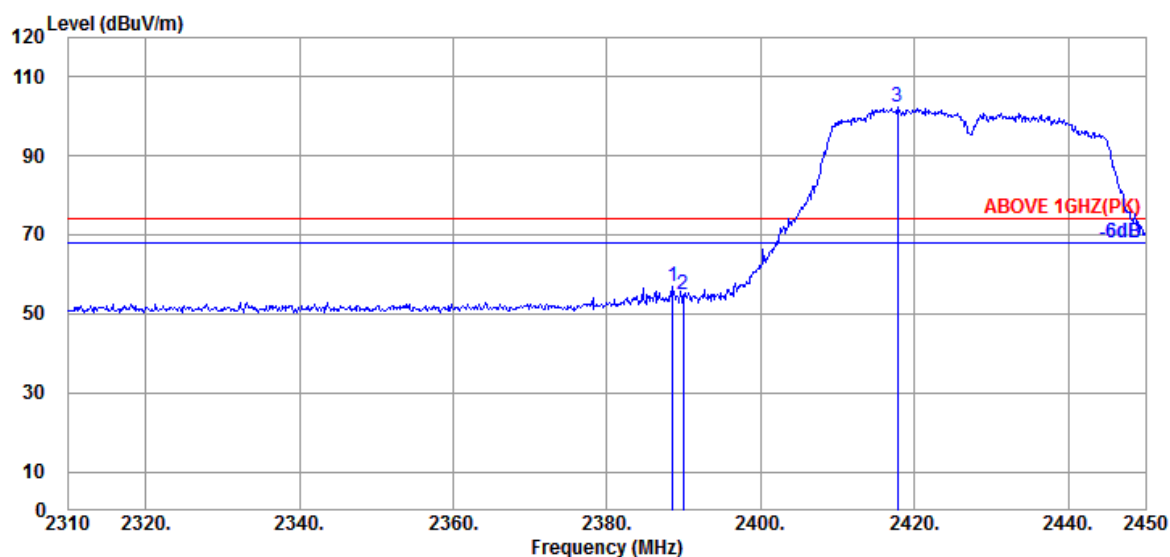
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Report Number: EM-F200116

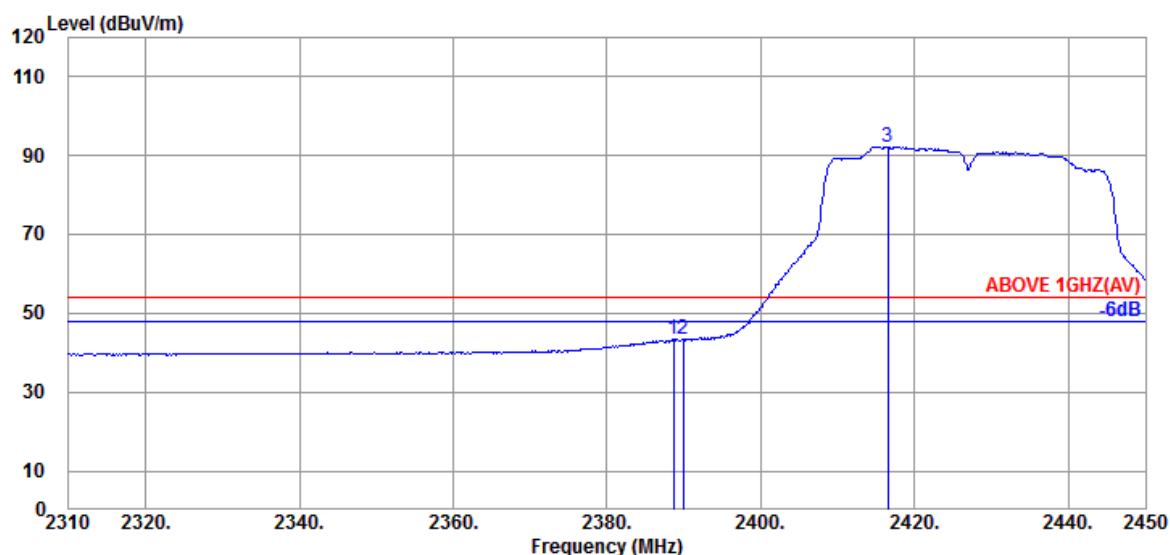
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Mode	802.11n-HT40	Frequency	TX 2427MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2388.540	28.31	8.52	20.16	56.99	74.00	17.01	Peak
2389.940	28.32	8.52	18.22	55.06	74.00	18.94	Peak
@ 2417.800	28.44	8.53	65.23	102.20	---	---	Peak

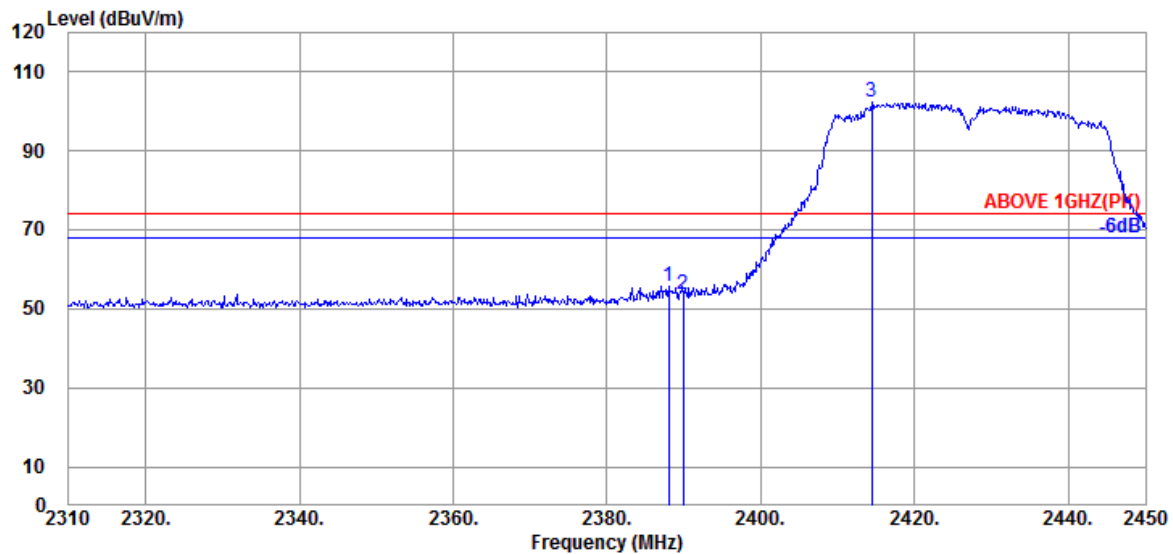


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2388.680	28.31	8.52	6.63	43.46	54.00	10.54	Average
2389.940	28.32	8.52	6.38	43.22	54.00	10.78	Average
@ 2416.540	28.43	8.53	55.38	92.34	---	---	Average

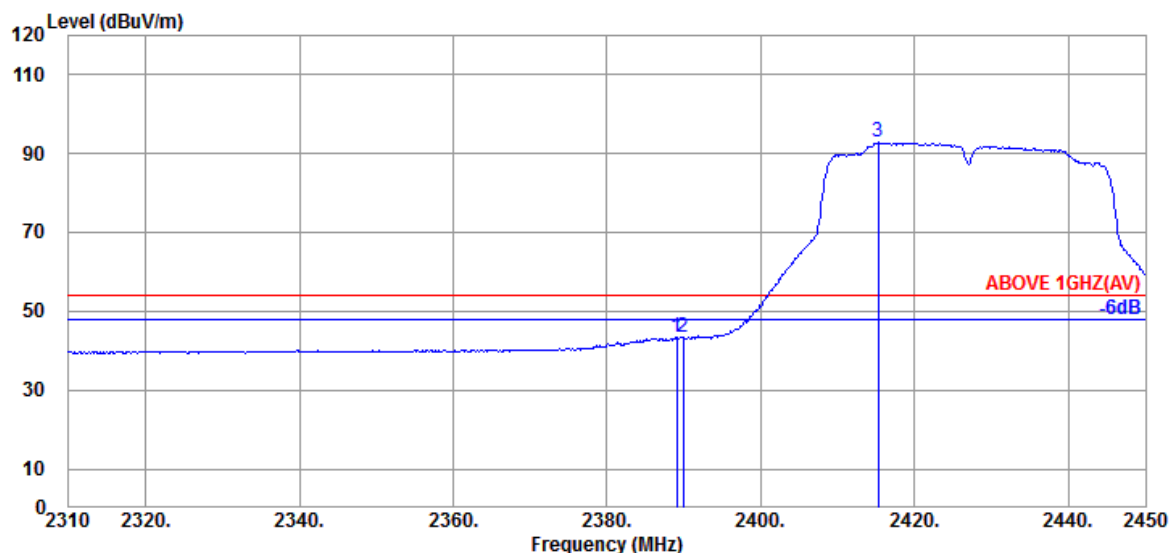
Remark: The “@” means fundamental frequency, it is ignored in this section.

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)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2387.980	28.30	8.52	18.98	55.80	74.00	18.20	Peak
2389.940	28.32	8.52	16.92	53.76	74.00	20.24	Peak
@ 2414.440	28.43	8.53	65.32	102.28	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.100	28.31	8.52	6.48	43.31	54.00	10.69	Average
2389.940	28.32	8.52	6.39	43.23	54.00	10.77	Average
@ 2415.280	28.43	8.53	55.94	92.90	---	---	Average

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

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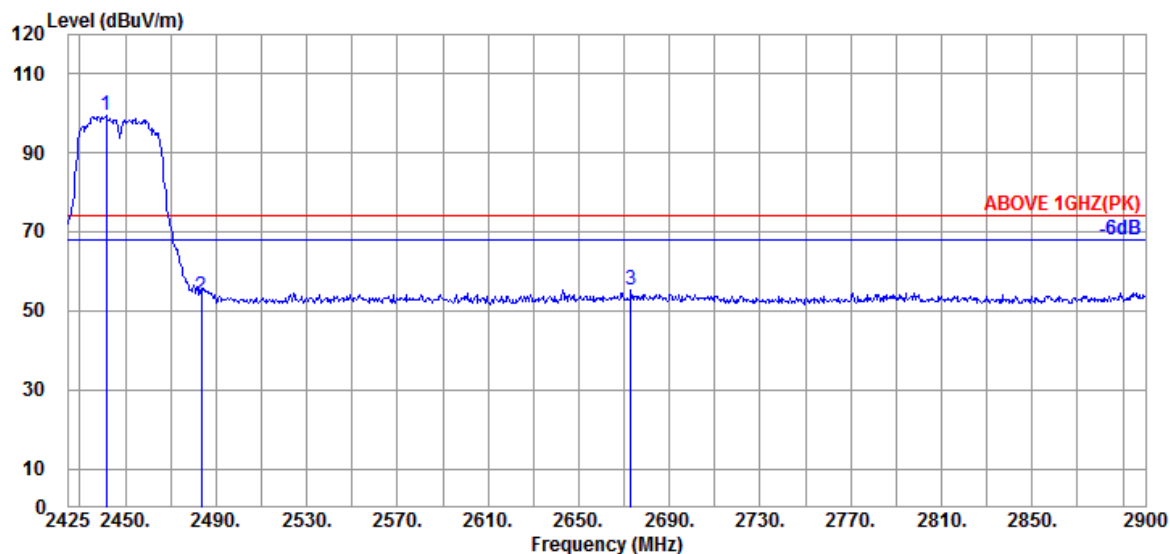
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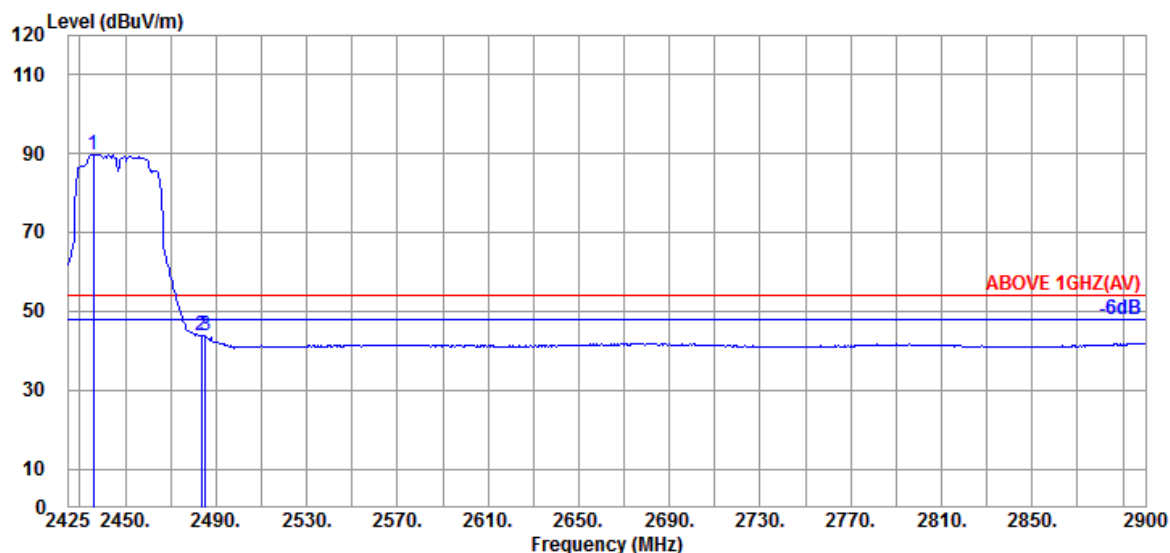
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Mode	802.11n-HT40	Frequency	TX 2447MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2441.625	28.48	8.55	62.36	99.39	---	---	Peak
	2483.425	28.70	8.58	16.56	53.84	74.00	20.16	Peak
	2672.950	28.99	8.63	17.70	55.32	74.00	18.68	Peak



Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2435.925	28.47	8.54	52.74	89.75	---	---	Average
	2483.425	28.70	8.58	6.40	43.68	54.00	10.32	Average
	2485.325	28.71	8.58	6.37	43.66	54.00	10.34	Average

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

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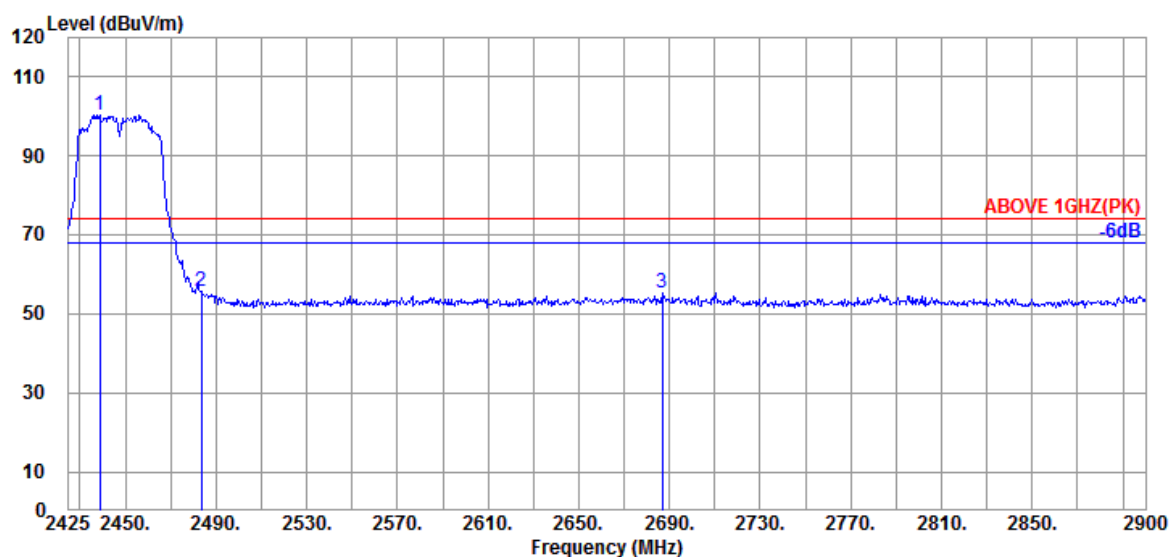
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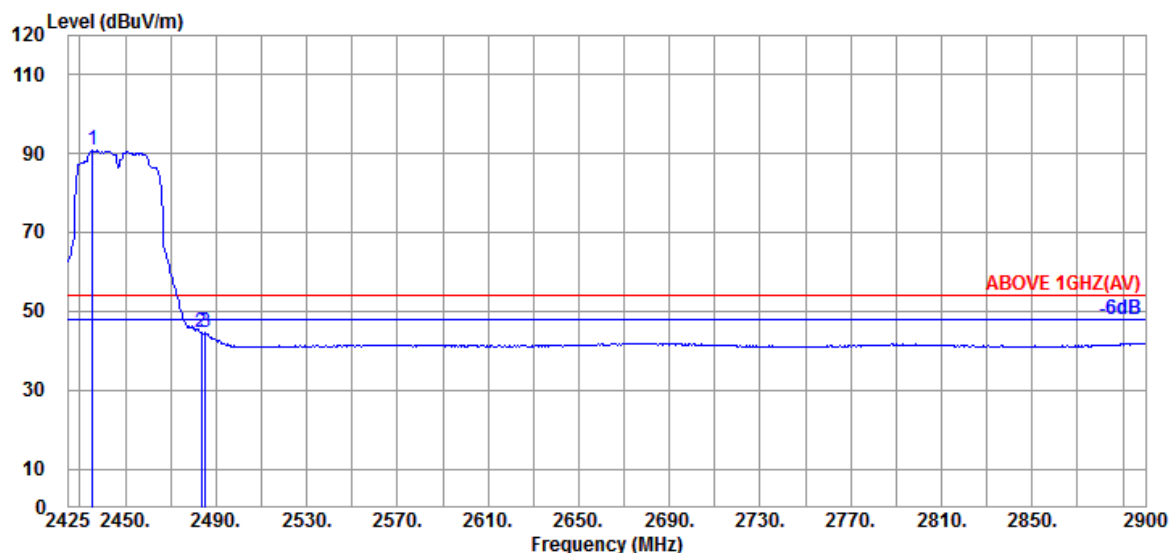
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Mode	802.11n-HT40	Frequency	TX 2447MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2438.775	28.48	8.55	63.50	100.53	---	---	Peak
	2483.425	28.70	8.58	18.32	55.60	74.00	18.40	Peak
	2686.725	29.05	8.63	17.56	55.24	74.00	18.76	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2435.450	28.47	8.54	53.79	90.80	---	---	Average
	2483.425	28.70	8.58	7.32	44.60	54.00	9.40	Average
	2485.325	28.71	8.58	7.18	44.47	54.00	9.53	Average

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

File Number: C1M2003035

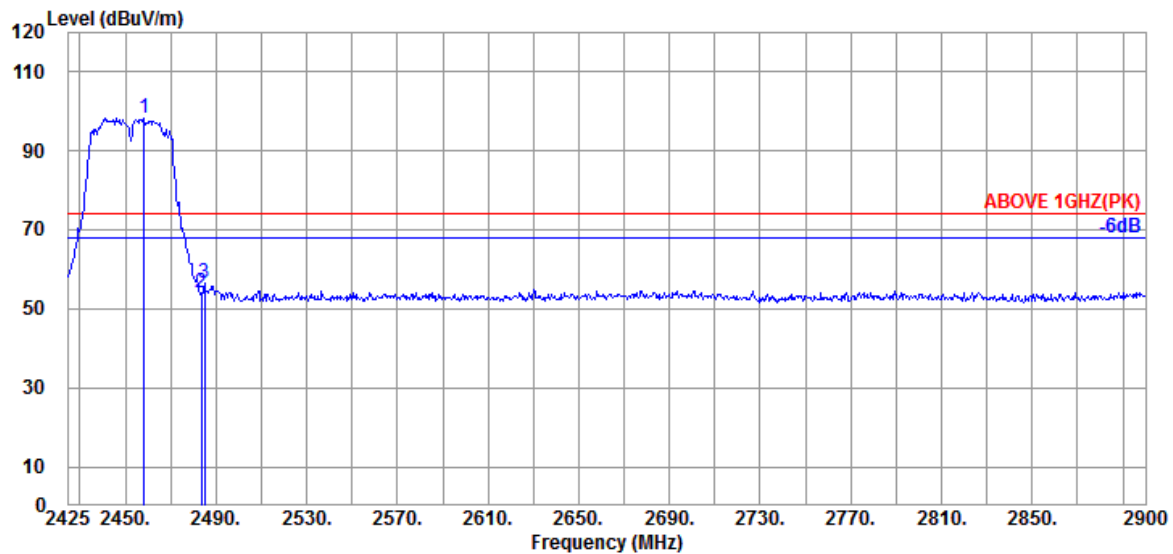
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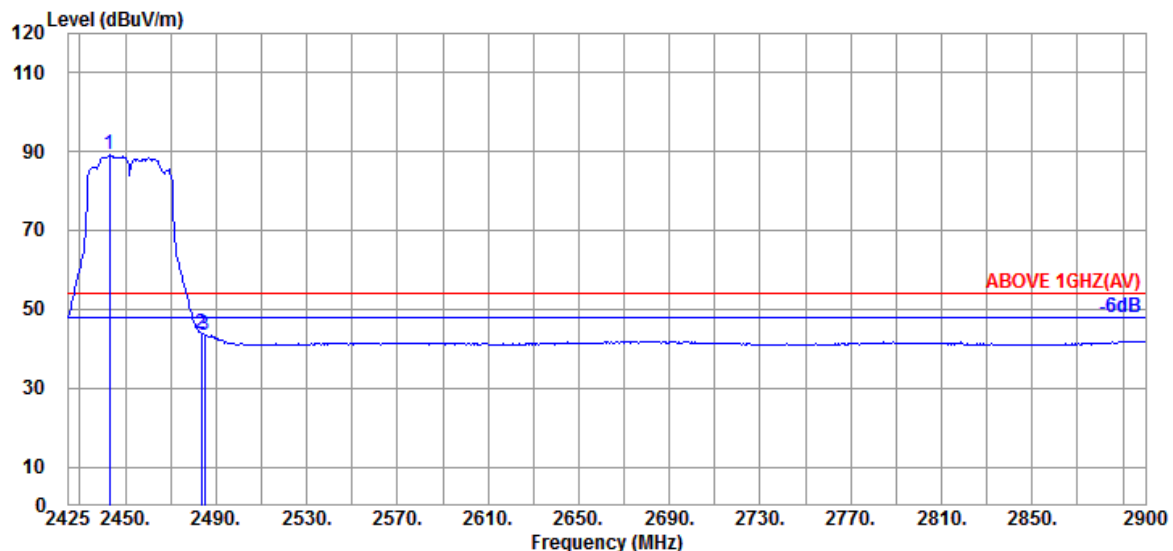
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Mode	802.11n-HT40	Frequency	TX 2452MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2458.250	28.55	8.57	61.22	98.34	---	---	Peak
	2483.425	28.70	8.58	16.78	54.06	74.00	19.94	Peak
	2484.850	28.71	8.58	19.18	56.47	74.00	17.53	Peak



Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2443.050	28.49	8.55	52.09	89.13	---	---	Average
	2483.425	28.70	8.58	6.71	43.99	54.00	10.01	Average
	2484.850	28.71	8.58	6.23	43.52	54.00	10.48	Average

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

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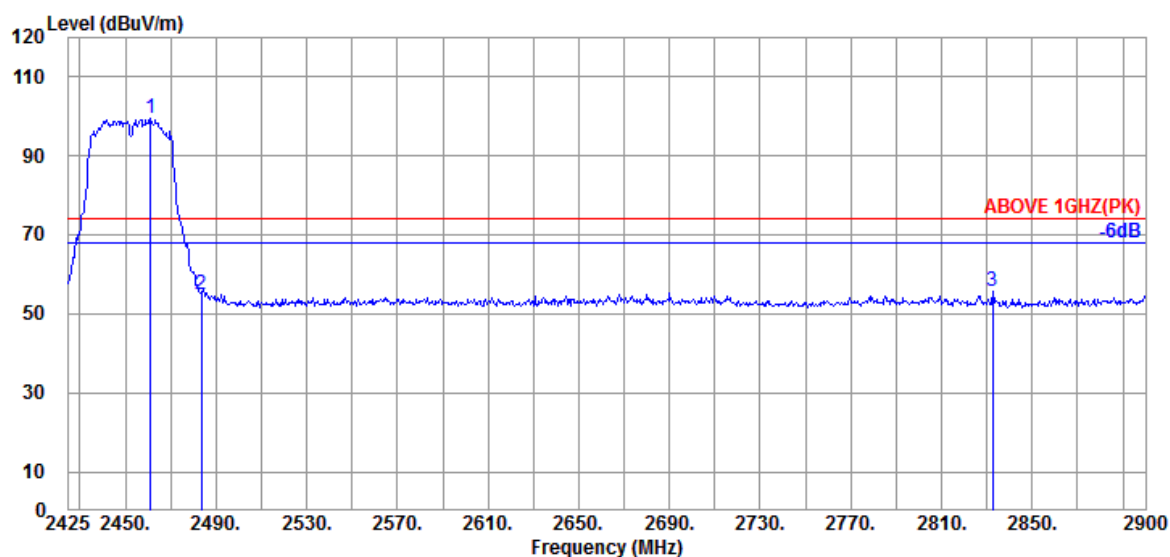
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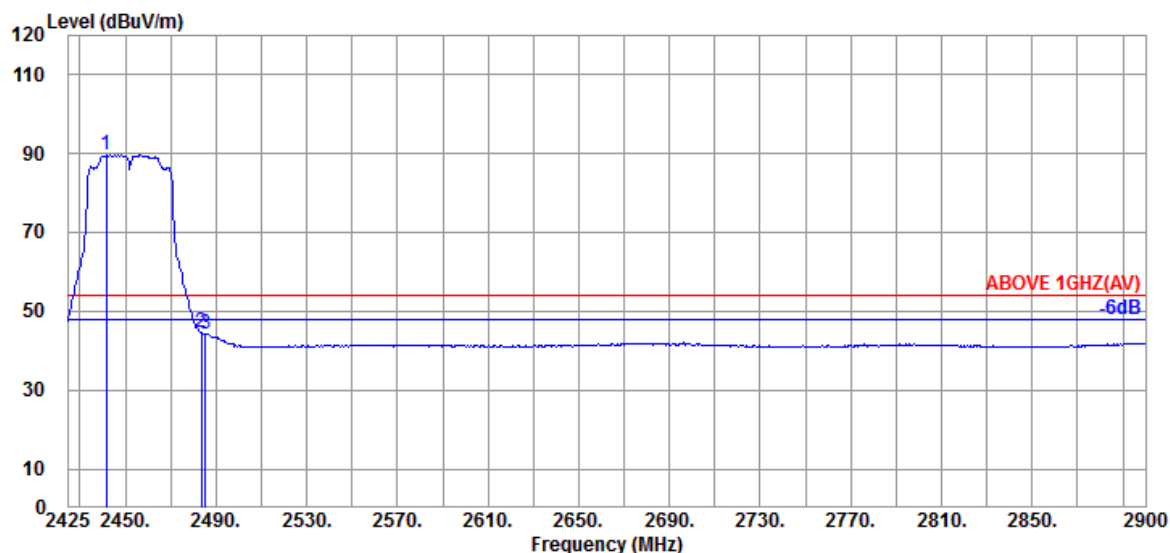
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Mode	802.11n-HT40	Frequency	TX 2452MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2461.100	28.57	8.57	62.22	99.36	---	---	Peak
	2483.425	28.70	8.58	17.53	54.81	74.00	19.19	Peak
	2832.550	29.10	8.67	18.06	55.83	74.00	18.17	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2441.625	28.48	8.55	52.74	89.77	---	---	Average
	2483.425	28.70	8.58	7.17	44.45	54.00	9.55	Average
	2485.325	28.71	8.58	6.96	44.25	54.00	9.75	Average

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

File Number: C1M2003035

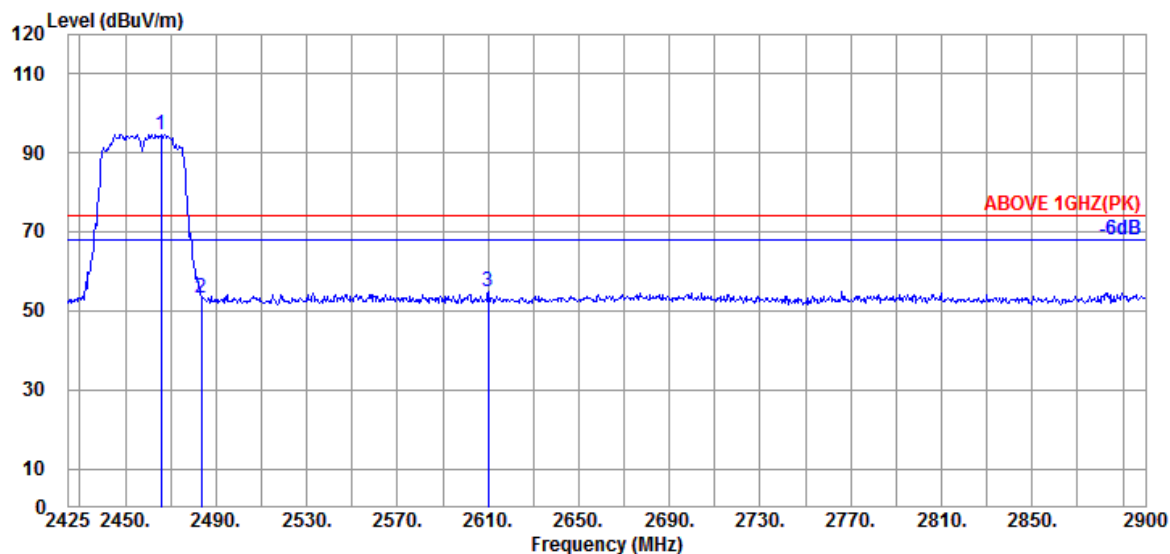
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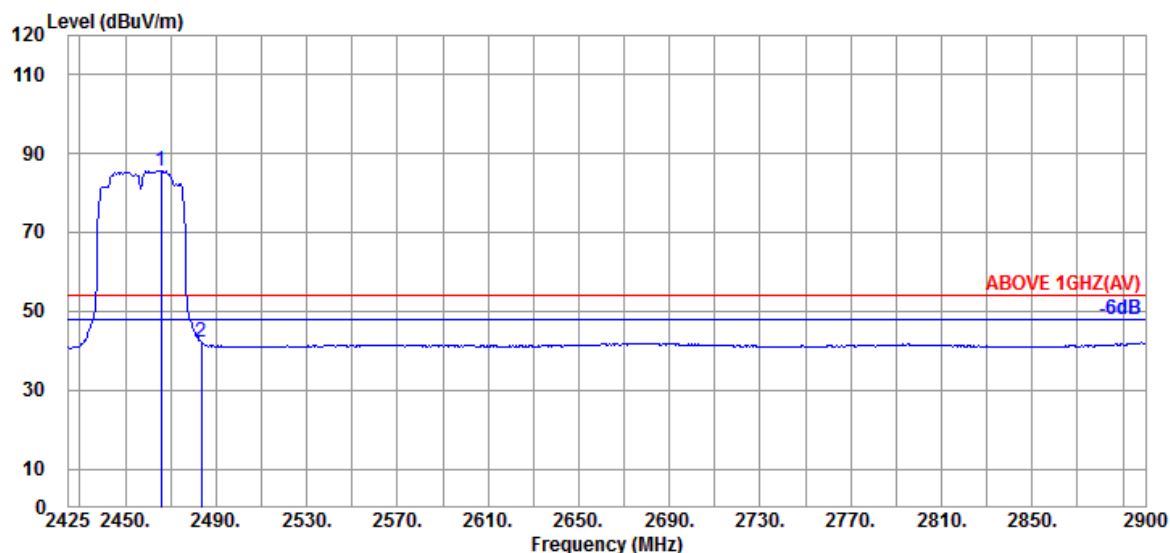
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Mode	802.11n-HT40	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2465.850	28.60	8.57	57.63	94.80	---	---	Peak
	2483.425	28.70	8.58	15.96	53.24	74.00	20.76	Peak
	2610.250	29.06	8.62	17.28	54.96	74.00	19.04	Peak



Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2465.850	28.60	8.57	48.41	85.58	---	---	Average
	2483.425	28.70	8.58	4.87	42.15	54.00	11.85	Average
	2900.000	29.60	8.69	3.72	42.01	54.00	11.99	Average

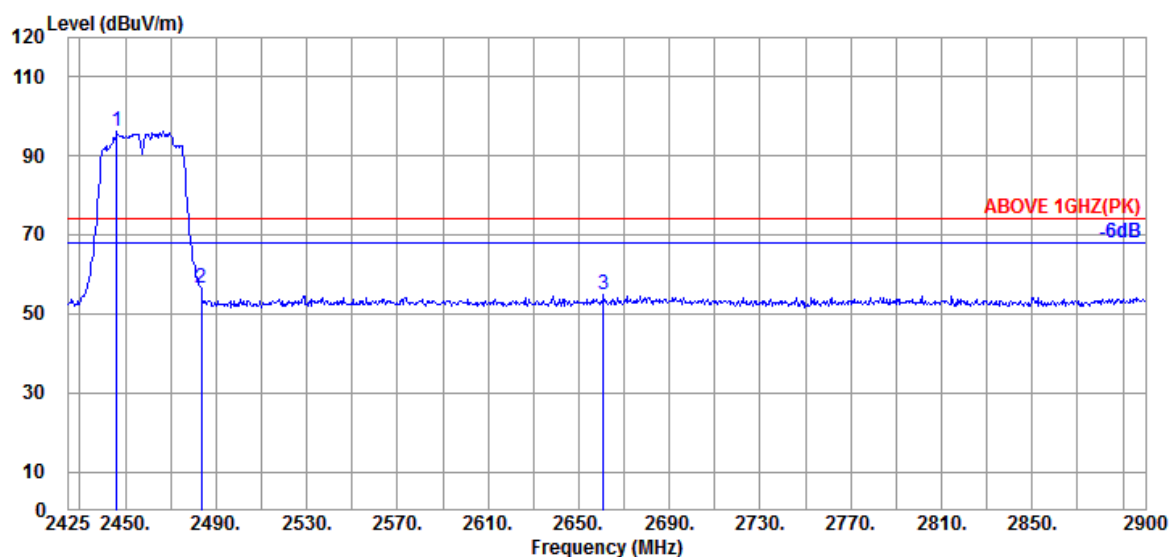
Remark: The “@” means fundamental frequency, it is ignored in this section.

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Report Number: EM-F200116

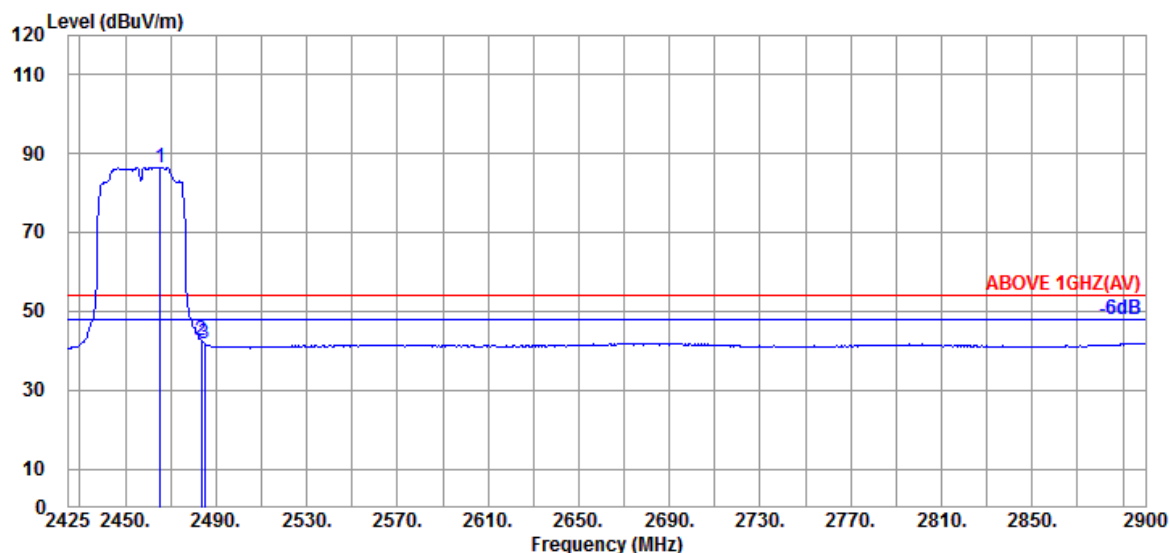
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Mode	802.11n-HT40	Frequency	TX 2457MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2446.375	28.49	8.55	59.17	96.21	---	---	Peak
	2483.425	28.70	8.58	19.26	56.54	74.00	17.46	Peak
	2661.075	28.94	8.63	17.12	54.69	74.00	19.31	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2465.375	28.59	8.57	49.34	86.50	---	---	Average
	2483.425	28.70	8.58	5.16	42.44	54.00	11.56	Average
	2484.850	28.71	8.58	4.65	41.94	54.00	12.06	Average

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