

FCC 15.247 & RSS-247 2.4GHz Test Report

for

LG Electronics Inc.

**222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do,
17709 Republic of Korea**

Product Name : Notebook Computer
Model Name : (1)15ZB90Q (2)15ZG90Q
Brand : LG
FCC ID : BEJNT-15ZB90Q
IC : 2703H-15ZB90Q

**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.

TABLE OF CONTENTS

Description	Page
TEST REPORT	4
1. REVISION RECORD OF TEST REPORT	5
2. SUMMARY OF TEST RESULTS	6
3. GENERAL INFORMATION	7
3.1. Description of Application	7
3.2. Description of EUT	8
3.3. Reference Test Guidance	9
3.4. Antenna Information	9
3.5. EUT Specifications Assessed in Current Report	10
3.6. Descriptions of Key Components	12
3.7. Test Configuration	14
3.8. Output Power Setting	21
3.9. Tested Supporting System List	22
3.10. Setup Configuration	23
3.11. Operating Condition of EUT	23
3.12. Description of Test Facility	24
3.13. Measurement Uncertainty	25
4. MEASUREMENT EQUIPMENT LIST	26
4.1. Conducted Emission Measurement	26
4.2. Radiated Emission Measurement	27
4.3. RF Conducted Measurement	27
5. CONDUCTED EMISSION	28
5.1. Block Diagram of Test Setup	28
5.2. Conducted Emission Limit	28
5.3. Test Procedure	28
5.4. Test Results	28
6. RADIATED EMISSION	29
6.1. Block Diagram of Test Setup	29
6.2. Radiated Emission Limits	30
6.3. Test Procedure	31
6.4. Measurement Result Explanation	32
6.5. Test Results	32
7. DTS/OCCUPIED BANDWIDTH	33
7.1. Block Diagram of Test Setup	33
7.2. Specification Limits	33
7.3. Test Procedure	33
7.4. Test Results	33
8. MAXIMUM PEAK OUTPUT POWER	34
8.1. Block Diagram of Test Setup	34
8.2. Specification Limits	34
8.3. Test Procedure	35
8.4. Test Results	35
9. EMISSION LIMITATIONS	36



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9.1. Block Diagram of Test Setup	36
9.2. Specification Limits	36
9.3. Test Procedure	36
9.4. Test Results	37
10. POWER SPECTRAL DENSITY	38
10.1. Block Diagram of Test Setup	38
10.2. Specification Limits	38
10.3. Test Procedure	38
10.4. Test Results	38
11. DEVIATION TO TEST SPECIFICATIONS	39

APPENDIX A TEST DATA AND PLOTS

APPENDIX B TEST PHOTOGRAPHS

TEST REPORT

Applicant : LG Electronics Inc.
Manufacturer : LG Electronics Inc.
Factory : LG Electronics Nanjing New Technology Co., Ltd.
EUT Description
(1) Product : Notebook Computer
(2) Model : (1)15ZB90Q (2)15ZG90Q
(3) Brand : LG
(4) Power Supply: DC 20V, 3.25A

Applicable Standards:

Title 47 CFR FCC Part 15 Subpart C
RSS-Gen (Issue 5), Amendment 2, February 2021
RSS-247 (Issue 2), February 2017

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

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

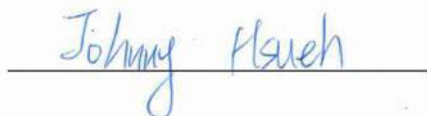
Date of Report: 2022. 07. 21

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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Date	Revision Summary	Report Number
0	2022. 07. 21	Original Report	EM-F220521

2. SUMMARY OF TEST RESULTS

Rule		Description	Results
FCC	IC		
15.207	RSS-Gen §8.8	Conducted Emission	PASS
15.247(d)/ 15.205	RSS-Gen §8.9 RSS-247 §5.5	Radiated Band Edge and Radiated Spurious Emission	PASS
15.247(a)(2)	RSS-247 §5.2(1)	DTS/Occupied Bandwidth	PASS
15.247(b)(3)	RSS-247 §5.4(4)	Maximum Peak Output Power	PASS
15.247(d)	RSS-247 §5.5	Conducted Band Edges and Conducted Spurious Emission	PASS
15.247 (e)	RSS-247 §5.2(2)	Peak Power Spectral Density	PASS
15.203	---	Antenna Requirement	Compliance
Note: The uncertainties value is not used in determining the result.			

3. GENERAL INFORMATION

3.1. Description of Application

Applicant	LG Electronics Inc. 222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do, 17709 Republic of Korea
Manufacturer	LG Electronics Inc. 222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do, 17709 Republic of Korea
Factory	LG Electronics Nanjing New Technology Co., Ltd. No.346, Yaoxin Road, Economic & Technical Development Zone, Nanjing, China.
Product	Notebook Computer
Model	(1)15ZB90Q (2)15ZG90Q The difference between all models is different in the sales customers and color difference.
Brand	LG

3.2. Description of EUT

Test Model	15ZB90Q		
Serial Number	N/A		
Power Rating	DC 20V, 3.25A		
Software Version	XY (X, Y can be 0 to 9 for different SW version not influence RF parameter)		
RF Features	WLAN:802.11 a/b/g/n/ac/ax Bluetooth: BT and BLE (BT 5.1)		
Transmit Type	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	
	U-NII 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	
	The MIMO is uncorrelated and supported SDM mode only.		
Test Sample	Sample No.	Test Item	Firmware
	03	AC Conduction, RSE, RF Conducted	N/A
Sample Status	Trial sample		
Date of Receipt	2022. 06. 30		
Date of Test	2022. 07. 08 ~ 20		
Interface Ports of EUT	• One HDMI Port • Two USB Type C Port • One Earphone Port • One Micro SD Card Slot • Two USB 3.0 Ports		
Accessories Supplied	• AC Adapter • LAN Gender		

3.3. Reference Test Guidance

KDB 662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10:2013

3.4. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain(dBi)	
					Main	AUX
1.	WA-P-LELE-04-026	INPAQ	Mono-Pole	2400	3.1	1.9
				2425	4.8	2.3
				2450	4.4	2.2
				2475	4.5	3.2
				2500	5.3	3.4
				5150	2.7	2.7
				5250	3.7	3.7
				5350	3.1	3.1
				5725	3.1	3.1
				5825	3.0	3.0
				5925	2.0	2.3
				6525	1.9	2.2
				7125	1.9	2.1
According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}]$ dBi Note 1. 2.4G: Directional gain = 2400MHz: Directional gain = $10 \log[(10^{3.1/10} + 10^{1.9/10})/2] = 2.54\text{dBi}$ 2425MHz: Directional gain = $10 \log[(10^{4.8/10} + 10^{2.3/10})/2] = 3.73\text{dBi}$ 2450MHz: Directional gain = $10 \log[(10^{4.4/10} + 10^{2.2/10})/2] = 3.44\text{dBi}$ 2475MHz: Directional gain = $10 \log[(10^{4.5/10} + 10^{3.2/10})/2] = 3.90\text{dBi}$ Note 2. 5G: Directional gain = 5150MHz: = $10 \log[(10^{2.7/10} + 10^{2.7/10})/2] = 2.70\text{dBi}$ 5250MHz: = $10 \log[(10^{3.7/10} + 10^{3.7/10})/2] = 3.70\text{dBi}$ 5350MHz: = $10 \log[(10^{3.1/10} + 10^{3.1/10})/2] = 3.10\text{dBi}$ 5725MHz: = $10 \log[(10^{3.1/10} + 10^{3.1/10})/2] = 3.10\text{dBi}$ 5825MHz: = $10 \log[(10^{3.0/10} + 10^{3.0/10})/2] = 3.00\text{dBi}$ Note 3. UNII Band (WLAN 6G): 5925MHz: Directional gain = $10 \log[(10^{2.0/10} + 10^{2.3/10})/2] = 2.15\text{dBi}$ 6525MHz: Directional gain = $10 \log[(10^{1.9/10} + 10^{2.2/10})/2] = 2.05\text{dBi}$ 7125MHz: Directional gain = $10 \log[(10^{1.9/10} + 10^{2.1/10})/2] = 2.00\text{dBi}$ We chose the antenna gain corresponding to the frequency listed on the table which is closer to center frequency of WLAN.						

3.5. EUT Specifications Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation	Data Rate (Mbps)
802.11b	2412-2472	13	DSSS (DBPSK/DQPSK/CCK)	Up to 11
802.11g		13	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11n-HT20				Up to 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 (1Mbps, 2Mbps, 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

3.6. Descriptions of Key Components

3.6.1. For the All Component Lists

Item	Supplier	Model / Type	Character
System	Microsoft	Win 10	---
		Win 10 Pro	---
		Win 11	---
Main Board	LG	Queen LP4X MAIN B/D PCB	Main Board Manufacturer: #1 HannstarBoardTech(Jiang Yin)Corp.,Ltd. #2 Elec&Eltek Company (MCO) Limited.
WLAN SUB Board	LG	15Z90Q B2B SUB B/D	Manufacturer: #1 HannstarBoardTech(Jiang Yin)Corp.,Ltd. #2 Elec&Eltek Company (MCO) Limited. #3 JiangSuHuaShen Electronic co.,ltd (HXF)
CPU (Socket: BGA1744)	Intel	i7-1260P	2.5GHz
	Intel	i7-1255U	2.5GHz
	Intel	i5-1240P	2.1GHz
	Intel	i5-1235U	2.1GHz
	Intel	i3-1220P	1.5GHz
	Intel	i3-1215U	1.5GHz
15" LCD Panel	LG Display	LP156WQ1 (SP)(Z2)	Resolution: 1920 x 1080, 60Hz FHD IPS
Storage (SSD)	SK hynix	---	1TB
		---	512GB
		---	256GB
	Samsung	---	1TB
		---	512GB
		---	256GB
Memory (RAM)	Samsung	---	32GB LPDDR4x(On Board)
		---	16GB LPDDR4x(On Board)
		---	8GB LPDDR4x(On Board)
	SK Hynix	---	32GB LPDDR4x(On Board)
		---	16GB LPDDR4x(On Board)
		---	8GB LPDDR4x(On Board)
Battery Pack	LG	LBV7227E	DC7.74V, 80Wh Typ 10336mAh
WLAN Combo Card	Intel	AX211D2W	WLAN and BT, 2x2 PCIe M.2 1216 SD adapter card FCC ID: PD9AX211D2 IC: 1000M-AX211D2
WLAN Combo Antenna	LG (INPAQ)	WA-P-LELE-04-026	PCB, Mono-pole Type Main: Black, Aux: Gray
Keyboard	TIC	KT0120B8E	---
	LITE ON	SN8101	---
Touch Pad	LITE-ON	SP8000(SG-A0620-00A)	LGPN (EBD63285207)
	ELAN	SD068D-26H0	LGPN (EBD62827905)
Web Camera	Chicony	CKFKH33-0	EBP63421711
	Luxvisions	0BF108N3	EBP63421709

Item	Supplier	Model / Type	Character
LAN Gender (Type C to LAN)	SUZHOU MEC ELECTRONICS	80-5946-111	(White) 10/100Megabit Ethernet
		80-5946-101	(Black) 10/100 Megabit Ethernet
	ARIN TECH CO. LTD	GD-08MF-36-WH-LP10	(White) 10/100Megabit Ethernet
		GD-08MF-36-BK-LP11	(Black) 10/100 Megabit Ethernet
	HUIZHOU DEHONG TECHNOLOGY CO.,LTD.	370-50713	(White) 10/100Megabit Ethernet
		370-50714	(Black) 10/100 Megabit Ethernet
	Type C to LAN: Shielded, Undetached, 0.12m		
AC Adapter (65W)	LG (HONOR)	ADT-65DSU-D03-2	I/P: AC 100-240V, 1.6A, 50-60Hz O/P: DC 20V, 3.25A
	DC Power Cord: Non-Shielded, Undetached, 1.5m		
	AC Power Cord: Non-Shielded, Detached, 1.0m (2C) (For Other Countries) AC Power Cord: Non-Shielded, Detached, 1.55m (2C) (For US, Canada, Mexico)		

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

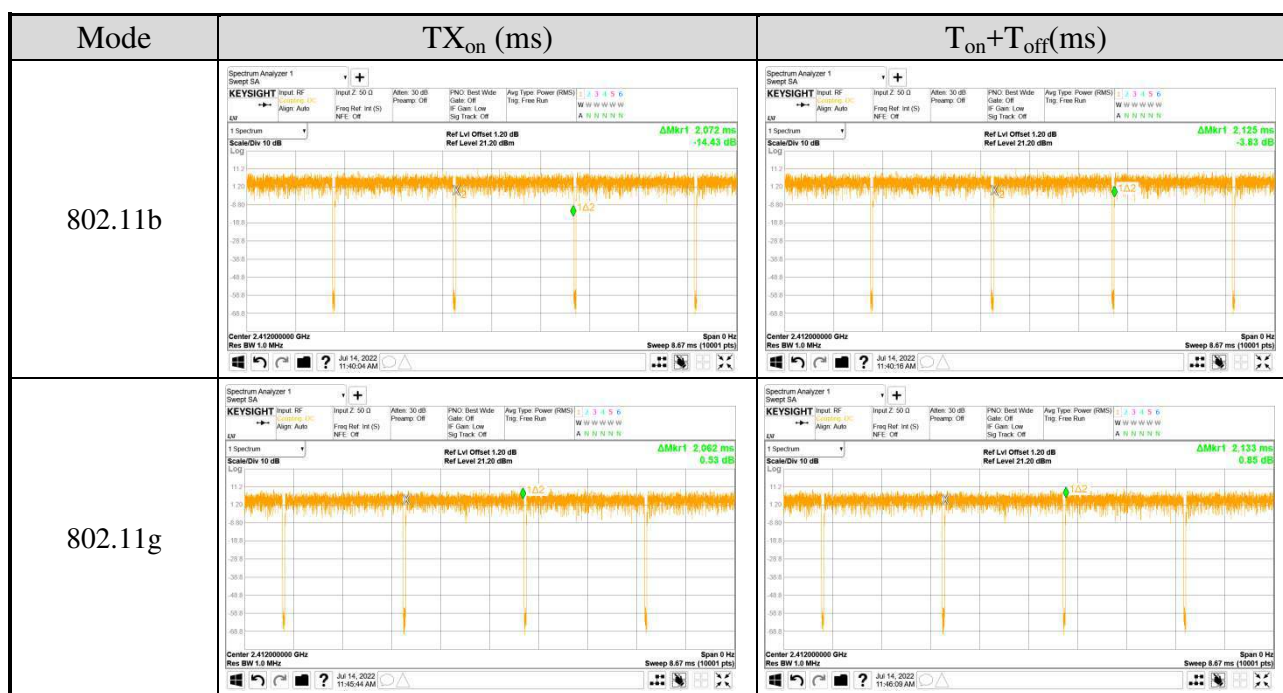
3.6.2. The EUT collocates with following worst components, which are used to establish a basic configuration of system during test:

SKU (Mode) 1			
Main Board		LG, Queen LP4X MAIN B/D PCB	
SUB Board		LG, 15Z90Q B2B SUB B/D	
CPU		Intel, i7-1260P	
15” LCD Panel		LG Display, LP156WQ1 (SP)(Z2)	
Storage (SSD)		SK hynix, 1TB	
		Samsung, 1TB	
Memory (RAM)		32GB	
Battery Pack		LG, 80Wh	
Keyboard		TIC, KT0120B8E	
Touch Pad		LITE-ON, SP8000(SG-A0620-00A)	
Web Camera		Chicony, CKFKH33-0	
WLAN Combo Card		Intel, AX211D2W	
		WL 2.4G+BT	
WLAN Combo Antenna		LG (INPAQ), WA-P-LELE-04-026	
HDMI		1920 x 1080, 60Hz	
Type C #1	AC Adapter	LG (HONOR), ADT-65DSU-D03-2	
Type C #2	Link to LAN Gender	MEC (Black)	10/100Mbps

3.7. Test Configuration

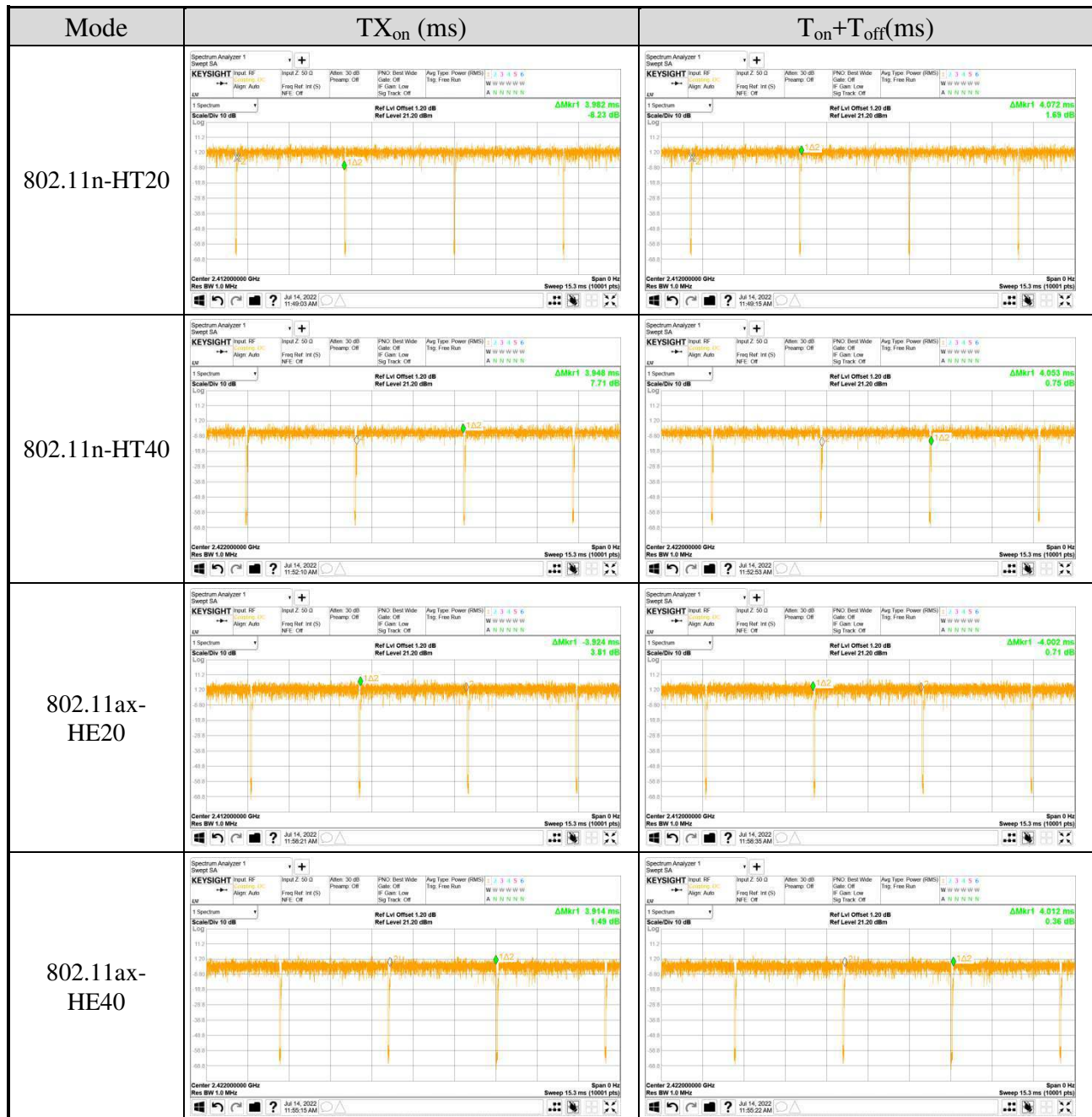
Mode	TX _{on} (ms)	TX _{on+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
802.11b	2.072	2.125	0.975	0.110
802.11g	2.062	2.133	0.967	0.146
802.11n-HT20	3.982	4.072	0.978	0.097
802.11n-HT40	3.948	4.053	0.974	0.114
802.11ax-HE20	3.924	4.002	0.981	N/A
802.11ax-HE40	3.914	4.012	0.976	0.106
802.11ax-HE20 (RU Configuration)	3.024	3.081	0.981	N/A
802.11ax-HE40 (RU Configuration)	5.436	5.534	0.982	N/A

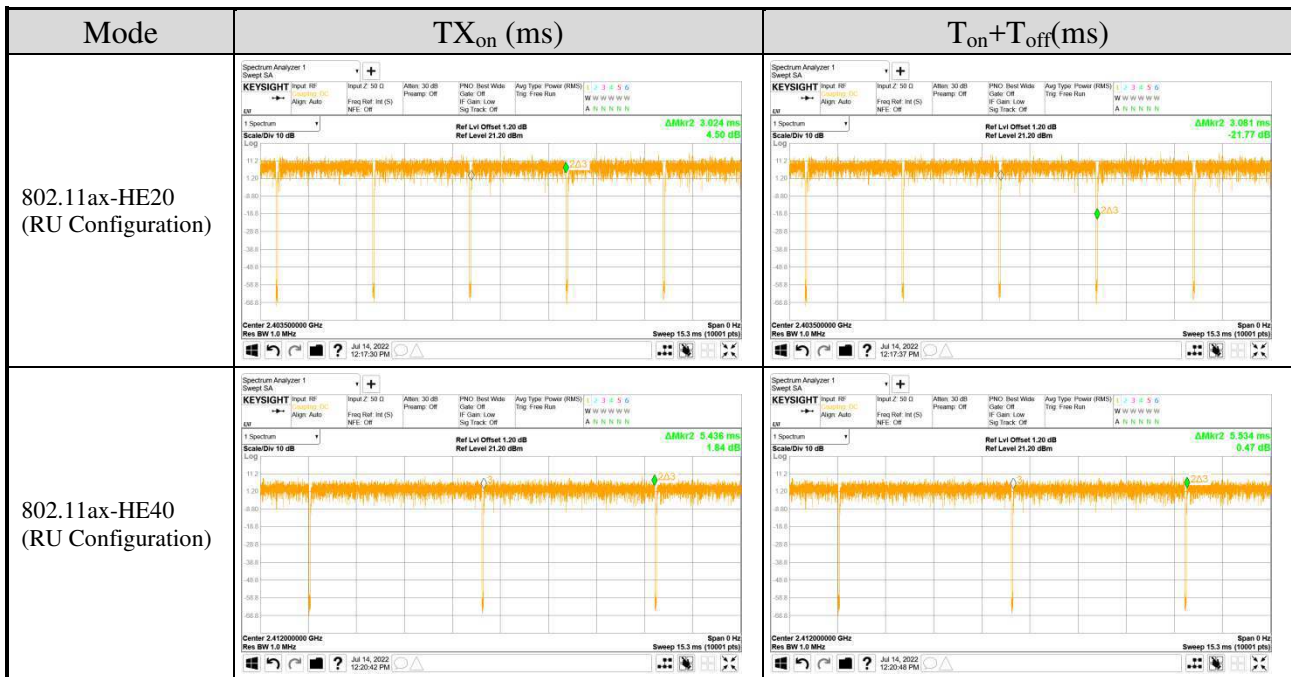
Note: When duty cycle is less than 98% (0.98) that duty cycle factor 10log(1/x) is needed to add in conducted test items measured in average detector.



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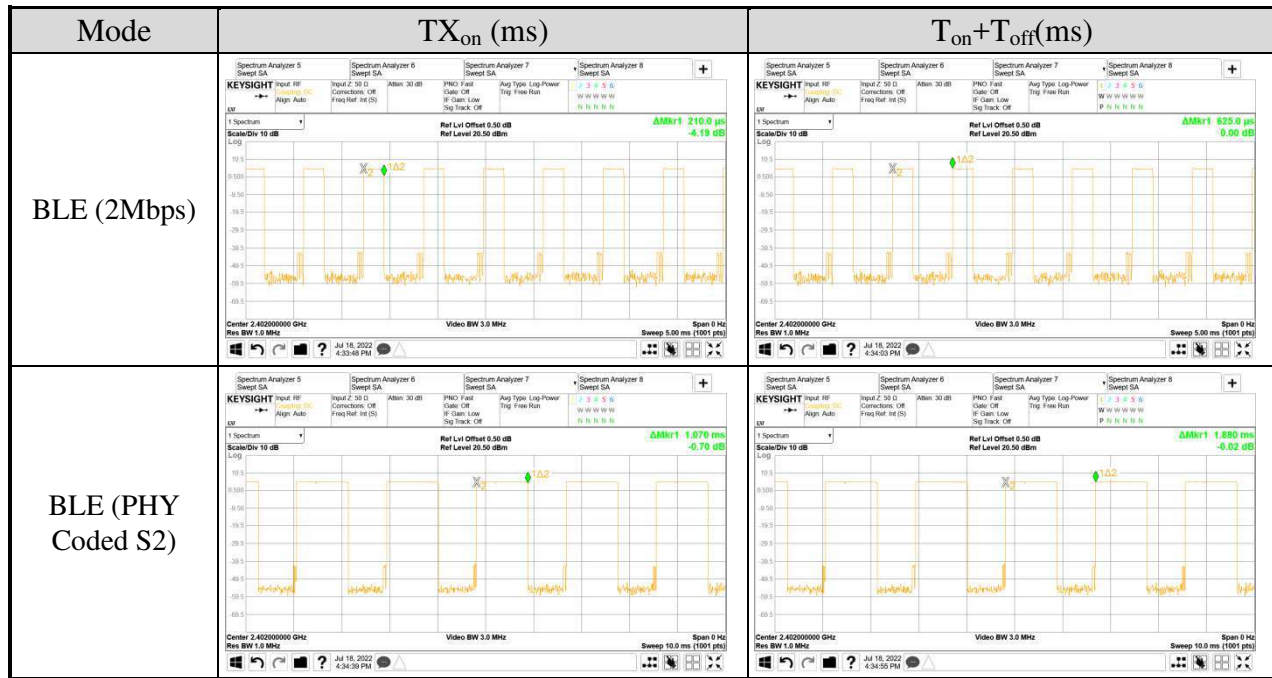


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Mode	TX _{on} (ms)	TX _{on+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
BLE (2Mbps)	0.210	0.625	0.336	4.737
BLE (PHY Coded S2)	1.070	1.880	0.569	2.448

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



AC Conduction	
Normal operation	

Item		Mode	Data Rate	Test Channel
Radiated Test Case	Radiated Spurious Emission (30MHz~1GHz)	802.11n-HT20	MCS8	7
		BLE	2Mbps	39

Item		Mode	Data Rate	Test Channel
Radiated Test Case	Radiated Band Edge ^{Note1}	802.11b	1Mbps	1/11/12/13
		802.11g	6Mbps	1/2/10/11/12/13
		802.11n-HT20	MCS8	1/2/3/10/11/12/13
		802.11n-HT40	MCS8	3/9/10/11
		802.11ax-HE20	HE0	1/2/3/10/11/12/13
		802.11ax-HE40	HE0	3/9/10/11
		BLE	2Mbps	37/39
	Radiated Spurious Emission ^{Note1 & 2}	802.11b	1Mbps	7
		802.11g	6Mbps	7
		802.11n-HT20	MCS8	7
		802.11n-HT40	MCS8	7
		802.11ax-HE20	HE0	7
		802.11ax-HE40	HE0	7
		BLE	2Mbps	37/17/39

Item		Mode	RU Config	Test Channel
Radiated Test Case	Radiated Band Edge ^{Note 1}	802.11ax-HE20	26/0	1
			52/37	
			106/53	
			26/8	13
			52/40	
			106/54	
		802.11ax-HE40	242/61	3
			242/62	11

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

Item		Mode	Data Rate	RU Configuration	Test Channel	
Conducted Test Case	DTS/Occupied Bandwidth	802.11ax-HE20	HE0	26/0	1	
				52/37		
				106/53		
			HE0	26/8	13	
				52/40		
				106/54		
		802.11ax-HE40	HE0	242/61	3	
			HE0	242/62	11	
	Peak Output Power	802.11ax-HE20	HE0	26/0	1	
				52/37		
				106/53		
			HE0	26/8	13	
				52/40		
				106/5		
		802.11ax-HE40	HE0	242/61	3	
			HE0	242/62	11	
		Peak Power Spectral Density	802.11ax-HE20	HE0	26/0	1
					52/37	
					106/53	
				HE0	26/8	13
	52/40					
	106/54					
	802.11ax-HE40		HE0	242/61	3	
			HE0	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 rate as the worst case for output power.

3.8. Output Power Setting

Mode	Centre Frequency (MHz)	Power Setting		Mode	Centre Frequency (MHz)	Power Setting	
		AUX	Main			AUX	Main
802.11b	2412	20.000	20.000	802.11g	2412	17.000	17.500
	2442	20.000	20.000		2417	19.000	19.250
	2462	20.000	20.000		2442	20.000	20.000
	2467	19.000	18.750		2457	18.750	19.000
	2472	16.500	16.500		2462	16.750	17.000
					2467	14.500	14.500
			2472	11.500	11.500		

Mode	RU Configuration	Centre Frequency (MHz)	Power Setting	
			AUX	Main
802.11ax-HE20	26/0	2412	18.250	18.250
	52/37		18.500	18.500
	106/53		18.250	18.250
	26/0	2472	5.500	5.500
	52/37		6.000	6.000
	106/53		6.000	6.000
802.11ax-HE40	242/61	2422	15.250	15.250
	242/62	2462	7.250	7.250

Mode	Centre Frequency (MHz)	Power Setting			
		1Mbps	2Mbps	PHY Coded S2	PHY Coded S8
BLE	2402	Default	Default	Default	Default
	2440	Default	Default	Default	Default
	2480	Default	Default	Default	Default

3.9. Tested Supporting System List

3.9.1. Support Peripheral Unit

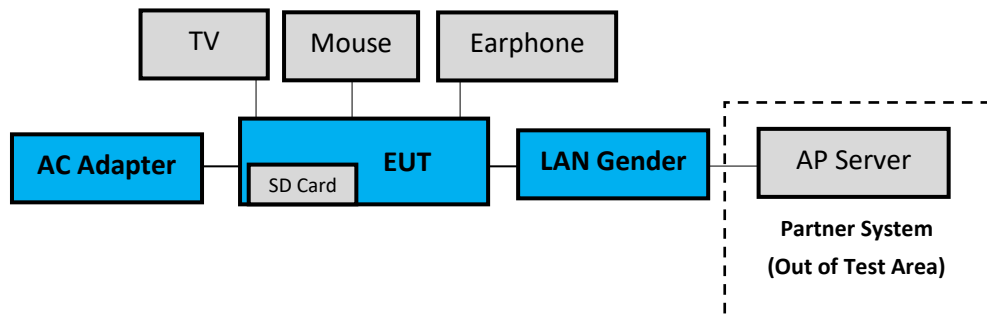
No.	Product	Brand	Model No.	Serial No.	Approval
1.	TV	LG	22LK330-DB	N/A	N/A
2.	USB Mouse	Logitech	M-B0001	N/A	N/A
3.	Earphone	APPLE	N/A	N/A	N/A
4.	SD Card	ADATA	MicroSDHC Card	N/A	N/A
Partner System					
5.	AP Server	ASUS	RT-AX88U	N/A	FCC ID: MSQ-RTAXHP00 IC: 3568A-RTAXHP00

3.9.2. Cable Lists

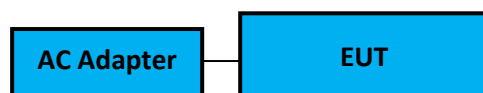
No.	Cable Description Of The Above Support Units
1.	HDMI Cable: Shielded, Detachable, 1.2m AC Power Cord: Unshielded, Detachable, 1.8m
2.	USB Cable: Unshielded, Undetachable, 0.7m
3.	Earphone Cable: Unshielded, Undetachable, 1.2m
4.	N/A
5.	AC adapter: M/N:WA-30B12, Cable: Unshielded, Detachable, 1.2m LAN cable: Unshielded, Detachable, 3.0m
6.	LAN cable: Unshielded, Detachable, 1.8m

3.10. Setup Configuration

3.10.1. EUT Configuration for Power Line & Radiated Emission



3.10.2. EUT Configuration for RF Conducted Test Items



3.11. Operating Condition of EUT

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

[ANT AUX port (A Button in DRTU), ANT Main port (B Button in DRTU)].

3.12. Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 491, Zhongfu Rd., Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2017 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is : TW1724 ISED CAB Identifier Number under APEC TEL MRA by NCC is TW1724 (1) No.8 Shielded Room (2) No.1 3m Semi Anechoic Chamber

3.13.Measurement Uncertainty

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

Remark : Uncertainty = $ku_c(y)$

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

4. MEASUREMENT EQUIPMENT LIST

4.1. Conducted Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESR3	101774	2022. 01. 11	1 Year
2.	A.M.N.	R&S	ENV432	101567	2022. 05. 26	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-855-9	2021. 12. 19	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	100354	2021. 12. 23	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.8 S/R	2022. 04. 14	1 Year
6.	Coaxial Cable	Yeida	RG/58AU	CE-08	2021. 09. 13	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-526	MY53400071	2021. 09. 09	1 Year
2.	Spectrum Analyzer	Keysight	N9010B-544	MY55460198	2022. 04. 08	1 Year
3.	Test Receiver	R&S	ESCS30	100338	2022. 06. 15	1 Year
4.	Amplifier	HP	8447D	2944A06305	2022. 01. 05	1 Year
5.	Microwave Amplifier	Keysight	83051A	MY53010042	2021. 07. 30	1 Year
6.	Microwave Amplifier	HP	8449B	3008A01284	2022. 06. 01	1 Year
7.	Loop Antenna	ETS LINDGREN	6512	00035867	2021. 09. 29	1 Year
8.	Bilog Antenna	TESEQ	CBL6112D	33821	2022. 07. 01	1 Year
9.	Double-Ridged Waveguide Horn	EMCO	3115	9112-3775	2022. 05. 18	1 Year
10.	Horn Antenna	COM-POWER	AH-840	101092	2022. 01. 06	1 Year
11.	2.4GHz Notch Filter	K&L Microwave	7NSL10-244 1.5/E130.5- O/O	2	2021 .07. 24	1 Year
12.	3GHz Notch Filter	Microwave	H3G018G1	484796	2021 .07. 24	1 Year
13.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2022. 01. 20	1 Year
14.	Coaxial Cable	HUBER+ SUHNER	SUCOFLEX 106	RE-14	2022. 01. 20	1 Year
15.	Coaxial Cable	HUBER+ SUHNER	SUCOFLEX 102	RE-30	2021. 08. 25	1 Year
16.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2022. 04. 14	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	2022. 03. 02	1 Year
2.	Spectrum Analyzer	Agilent	N9030A-526	MY53310269	2022. 02. 01	1 Year
3.	Power Meter	Anritsu	ML2495A	1145008	2022. 06. 22	1 Year
4.	Power Sensor	Anritsu	MA2411B	1126096	2022. 06. 22	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	RF-03	2022. 04. 14	1 Year

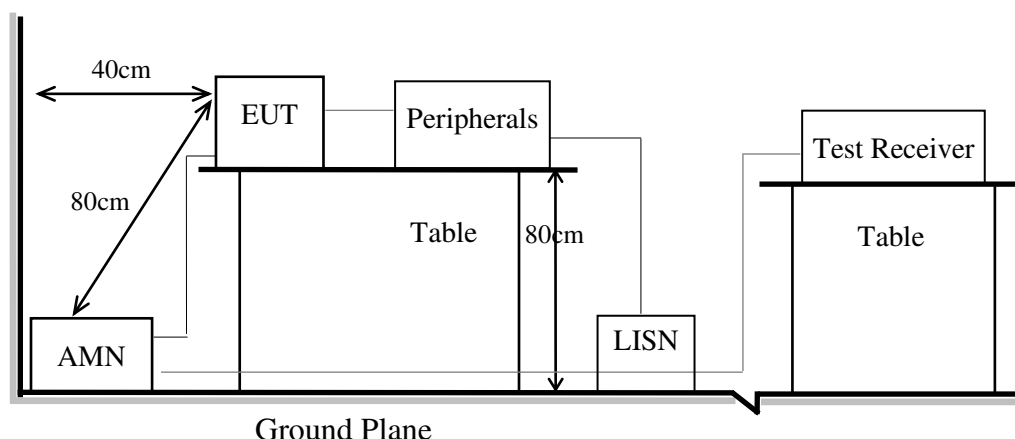
5. CONDUCTED EMISSION

5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of EUT

Indicated as section 3.10

5.1.2. Shielded Room Setup Diagram



5.2. Conducted Emission Limit

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

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

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

5.3. Test Procedure

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

5.4. Test Results

Please refer to Appendix A.

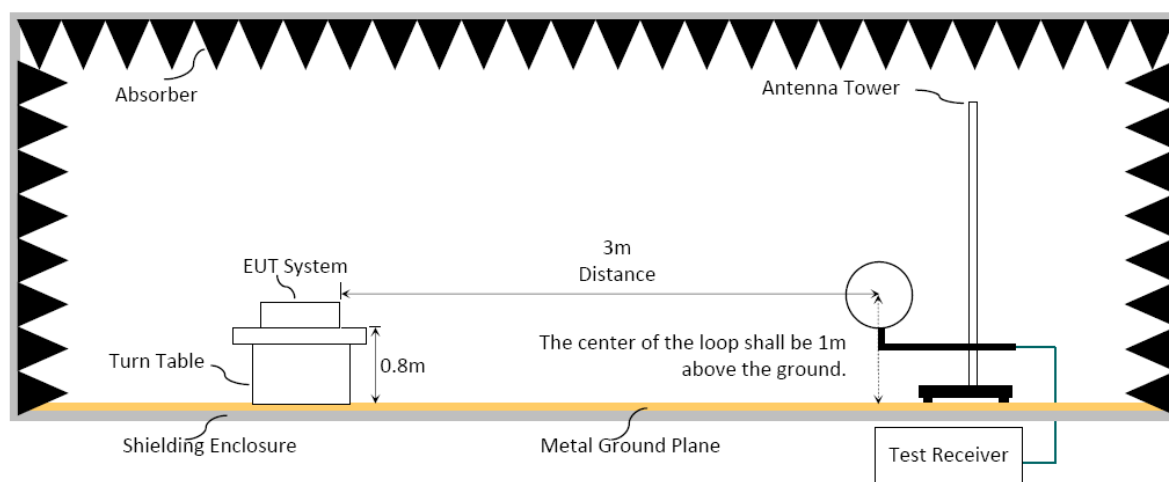
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

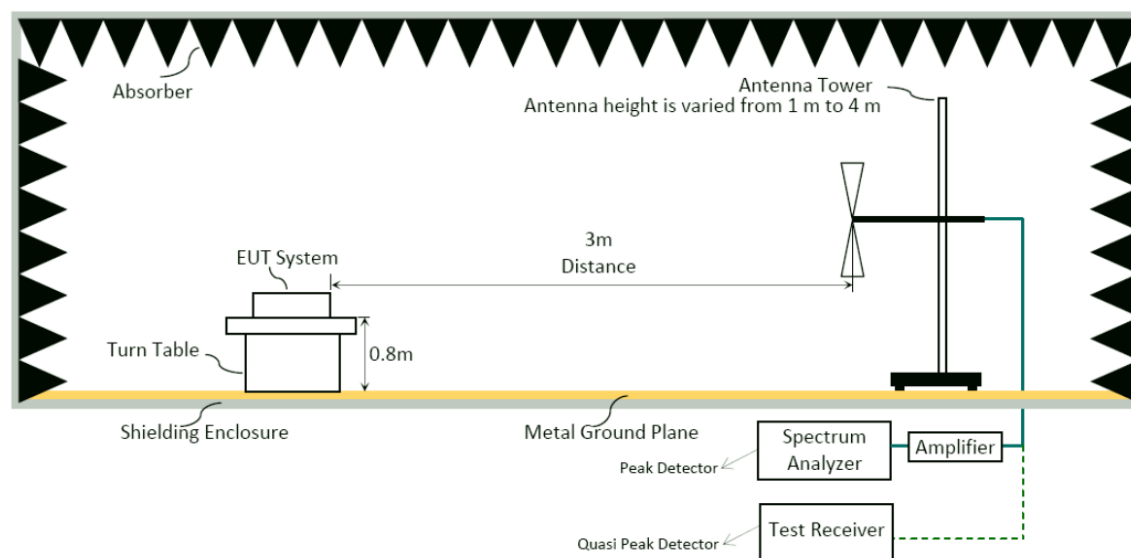
6.1.1. Block Diagram of EUT

Indicated as section 3.10

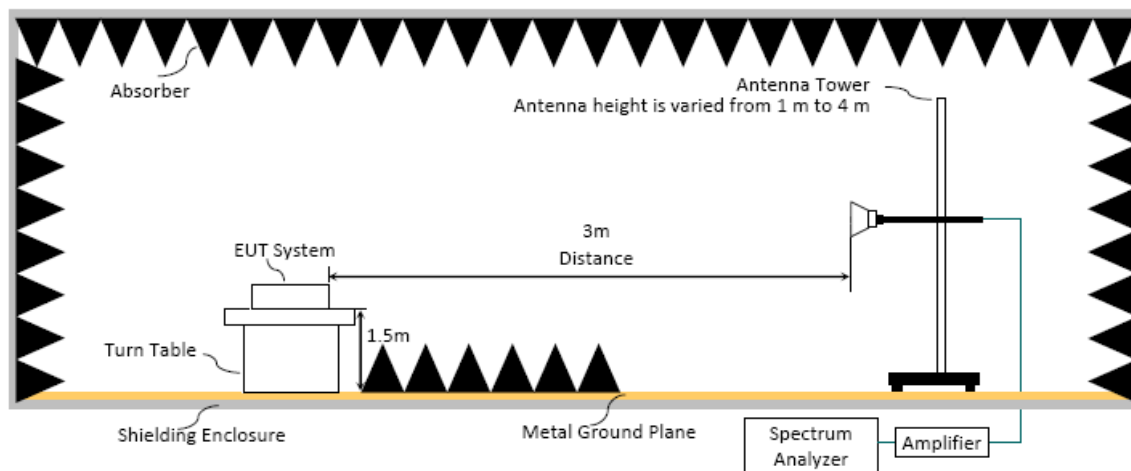
6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30-1000MHz



6.1.4. Setup Diagram for above 1GHz



6.2. Radiated Emission Limits

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

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

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

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

6.3. Test Procedure

Frequency Range 9kHz~30MHz:

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

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

Frequency Range 30MHz ~ 25GHz:

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

Frequency below 1GHz:

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

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

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

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

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

Peak Detector:

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

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

Average Detector:

■ Option 1:

(1) RBW = 1MHz

(2) VBW $\geq 1/T$. (Duty Cycle $< 98\%$, when duty cycle presented in section 3.7)

Modulation Type	VBW Setting (VBW $\geq 1/T$)
802.11b	510Hz
802.11g	510Hz
802.11n-HT20	270Hz
802.11n-HT40	270Hz
802.11ax-HE40	270Hz
BLE (PHY Coded S2)	5.1kHz

(3) VBW = 10Hz (Duty Cycle $\geq 98\%$, when duty cycle presented in section 3.7)

Modulation Type	VBW Setting
802.11ax-HE20	10Hz
802.11ax-HE20 (RU Configuration)	10Hz
802.11ax-HE40 (RU Configuration)	10Hz

(4) Detector = Peak.

(5) Sweep time = auto.

(6) Trace mode = max hold.

(7) 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 (dB μ V/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) + Reading (dB μ V).

■ Average Emission Level (dB μ V/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) + Reading (dB μ V).

□ Average Emission Level (dB μ V/m) = Peak Emission Level (dB μ V/m) + DCCF (dB)
Duty Cycle Correction Factor (DCCF) (dB) = $20\log(TX_{on}/TX_{on+off})$ presented in section 3.7.

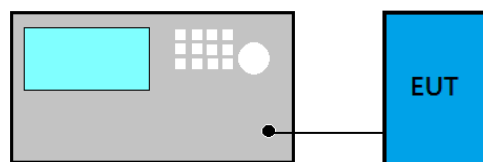
□ ERP (dBm) = Peak Emission Level (dB μ V/m) - 95.2dB - 2.14dB

6.5. Test Results

Please refer to Appendix A.

7. DTS/OCCUPIED BANDWIDTH

7.1. Block Diagram of Test Setup



7.2. Specification Limits

The minimum bandwidth shall be at least 500kHz.

7.3. Test Procedure

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

For DTS Bandwidth

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

For 99% Occupied Bandwidth

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

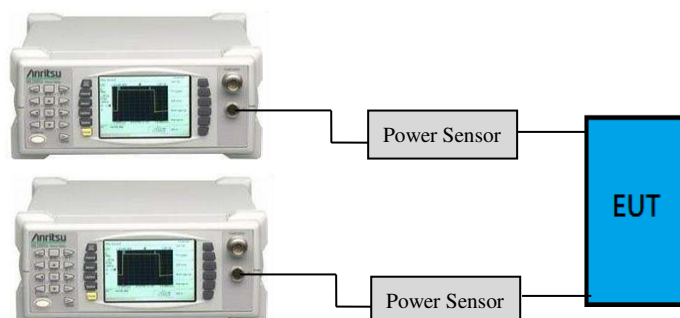
7.4. Test Results

Please refer to Appendix A

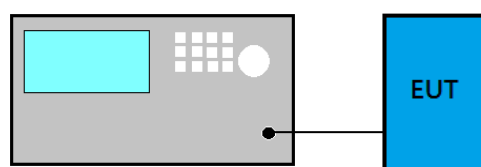
8. MAXIMUM PEAK OUTPUT POWER

8.1. Block Diagram of Test Setup

- 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)

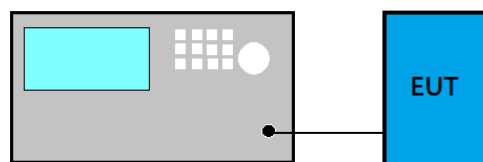
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 -5% of OBW
- (3) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the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

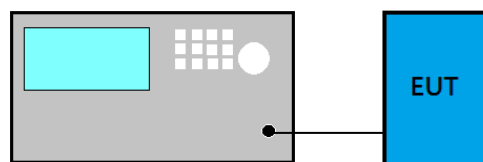
- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: 100 kHz.
- (4) Set the VBW $\geq 3 \times$ RBW.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully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

TEST DATA AND PLOTS

(Model: 15ZB90Q)

TABLE OF CONTENTS

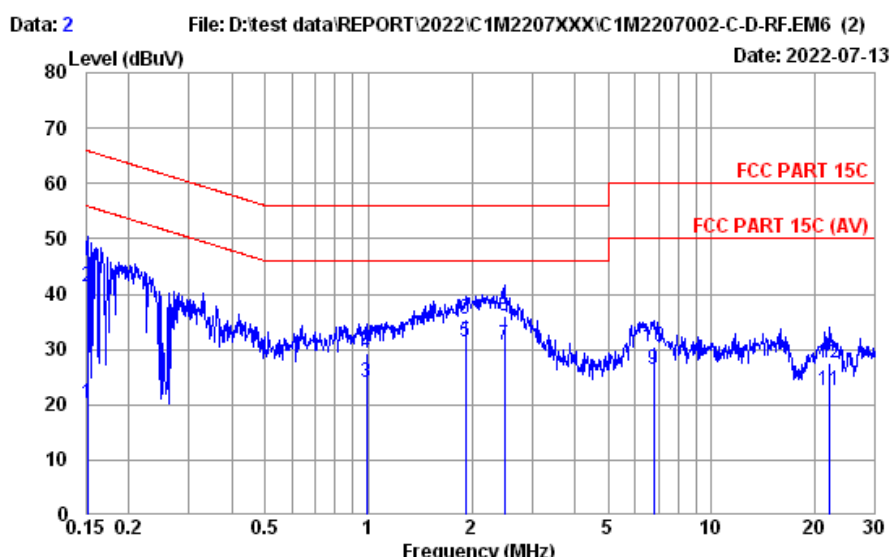
A.1 CONDUCTED EMISSION	2
A.2 RADIATED EMISSION	4
A.2.1 Emissions within Restricted Frequency Bands	4
A.2.2 Emissions outside the frequency band:	94
A.2.3 Emissions in Non-restricted Frequency Bands:	97
A.3 DTS/OCCUPIED BANDWIDTH	98
A.3.1 DTS/Occupied Bandwidth Result	98
A.3.2 Measurement Plots	100
A.4 MAXIMUM PEAK OUTPUT POWER	122
A.4.1 Peak Output Power	122
A.4.2 Average Output Power (Reporting only)	126
A.4.3 Measurement Plots	129
A.5 EMISSION LIMITATIONS	131
A.6 POWER SPECTRAL DENSITY	157
A.6.1 Power Spectral Density Result	157
A.6.2 Measurement Plots	160

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A.1 CONDUCTED EMISSION

Test Date	2022/07/13	Temp./Hum.	26°C/47%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung



Site No. : No.8 Shielded Room Data No. : 2
Instrument 1 : Receiver ESR3(774)
Instrument 2 : EHV432 (567)(A)|CE-08|ESH3-Z2 (354)
Limit : FCC PART 15C Phase : NEUTRAL
Environment : 26°C / 47% Engineer : Roy Hung
EUT Model : 15ZB90Q Test Rating : 120Vac/60Hz
Test Mode : Operating

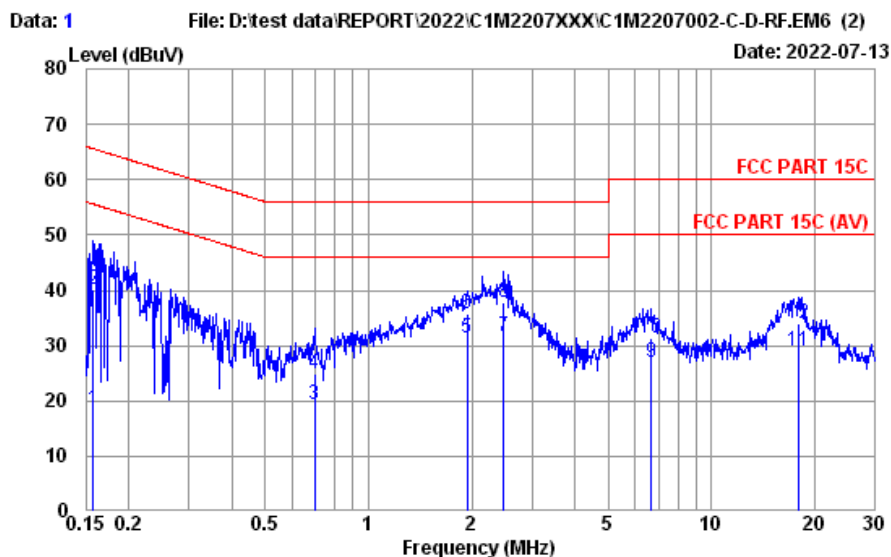
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	10.34	0.03	9.85	-0.05	20.17	55.91	35.74	Average
2	0.152	10.34	0.03	9.85	21.10	41.32	65.91	24.59	QP
3	0.989	10.34	0.04	9.85	3.92	24.15	46.00	21.85	Average
4	0.989	10.34	0.04	9.85	8.98	29.21	56.00	26.79	QP
5	1.918	10.36	0.06	9.86	10.98	31.26	46.00	14.74	Average
6	1.918	10.36	0.06	9.86	15.23	35.51	56.00	20.49	QP
7	2.487	10.37	0.07	9.86	10.49	30.79	46.00	15.21	Average
8	2.487	10.37	0.07	9.86	15.76	36.06	56.00	19.94	QP
9	6.769	10.53	0.11	9.87	5.88	26.39	50.00	23.61	Average
10	6.769	10.53	0.11	9.87	10.04	30.55	60.00	29.45	QP
11	21.946	11.12	0.20	9.95	1.29	22.56	50.00	27.44	Average
12	21.946	11.12	0.20	9.95	6.25	27.52	60.00	32.48	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	2022/07/13	Temp./Hum.	26°C/47%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung



Site No. : No.8 Shielded Room Data No. : 1
Instrument 1 : Receiver ESR3(774)
Instrument 2 : EHV432 (567)(A) | CE-08 | ESH3-Z2 (354)
Limit : FCC PART 15C Phase : LINE
Environment : 26°C / 47% Engineer : Roy Hung
EUT Model : 15ZB90Q Test Rating : 120Vac/60Hz
Test Mode : Operating

	Freq. (MHz)	AMM Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.157	10.22	0.03	9.85	-1.69	18.41	55.60	37.19	Average
2	0.157	10.22	0.03	9.85	20.18	40.28	65.60	25.32	QP
3	0.697	10.23	0.04	9.85	-0.83	19.29	46.00	26.71	Average
4	0.697	10.23	0.04	9.85	4.82	24.94	56.00	31.06	QP
5	1.939	10.25	0.06	9.86	11.31	31.48	46.00	14.52	Average
6	1.939	10.25	0.06	9.86	15.67	35.84	56.00	20.16	QP
7	2.474	10.26	0.07	9.86	11.32	31.51	46.00	14.49	Average
8	2.474	10.26	0.07	9.86	17.52	37.71	56.00	18.29	QP
9	6.662	10.36	0.11	9.87	6.48	26.82	50.00	23.18	Average
10	6.662	10.36	0.11	9.87	11.07	31.41	60.00	28.59	QP
11	17.849	10.60	0.18	9.93	8.24	28.95	50.00	21.05	Average
12	17.849	10.60	0.18	9.93	13.24	33.95	60.00	26.05	QP

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

A.2 RADIATED EMISSION

Test Date	2022/07/08 ~ 11	Temp./Hum.	23 ~ 25°C/58 ~ 62%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Hua Wu

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	802.11ax-HE20	Frequency	TX 2442MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
30.000	23.65	1.41	26.49	27.70	26.27	40.00	13.73	Peak
53.280	13.34	1.89	26.44	38.67	27.46	40.00	12.54	Peak
124.090	17.75	2.90	26.13	33.06	27.58	43.50	15.92	Peak
159.010	15.73	3.29	25.95	32.80	25.87	43.50	17.63	Peak
217.210	16.27	3.91	25.75	43.53	37.96	46.00	8.04	Peak
431.580	21.97	6.21	26.68	31.24	32.74	46.00	13.26	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
36.790	20.71	1.57	26.48	38.59	34.39	40.00	5.61	Peak
52.310	13.50	1.87	26.45	45.87	34.79	40.00	5.21	Peak
82.380	13.34	2.39	26.34	42.59	31.98	40.00	8.02	Peak
163.860	15.55	3.34	25.93	36.68	29.64	43.50	13.86	Peak
203.630	15.34	3.74	25.78	39.27	32.57	43.50	10.93	Peak
227.880	16.90	4.02	25.73	38.31	33.50	46.00	12.50	Peak

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Mode	BLE (PHY Coded S2)	Frequency	TX 2440MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
36.790	20.71	1.57	26.48	30.20	26.00	40.00	14.00	Peak
52.310	13.50	1.87	26.45	38.08	27.00	40.00	13.00	Peak
101.780	16.65	2.63	26.28	32.40	25.40	43.50	18.10	Peak
127.970	17.55	2.95	26.11	33.36	27.75	43.50	15.75	Peak
214.300	16.07	3.88	25.76	43.37	37.56	43.50	5.94	Peak
540.220	23.61	6.90	27.24	30.91	34.18	46.00	11.82	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
36.790	20.71	1.57	26.48	38.61	34.41	40.00	5.59	Peak
52.310	13.50	1.87	26.45	45.78	34.70	40.00	5.30	Peak
82.380	13.34	2.39	26.34	43.35	32.74	40.00	7.26	Peak
204.600	15.44	3.76	25.78	39.26	32.68	43.50	10.82	Peak
226.910	16.85	4.02	25.73	37.15	32.29	46.00	13.71	Peak
440.310	22.13	6.29	26.74	32.13	33.81	46.00	12.19	Peak

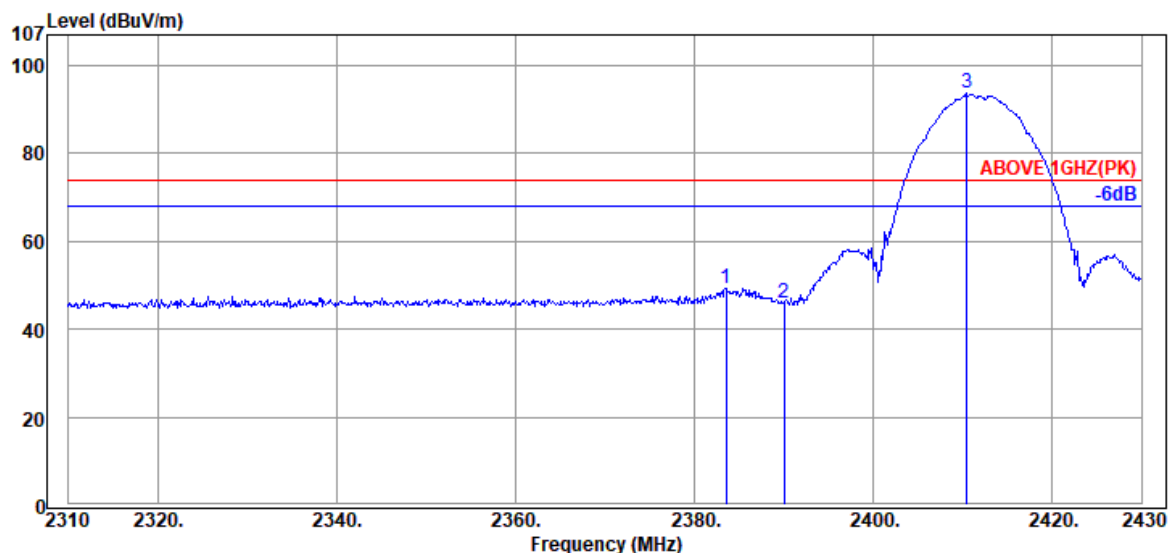
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A.2.1.3 Frequency Above 1 GHz to 10th harmonics

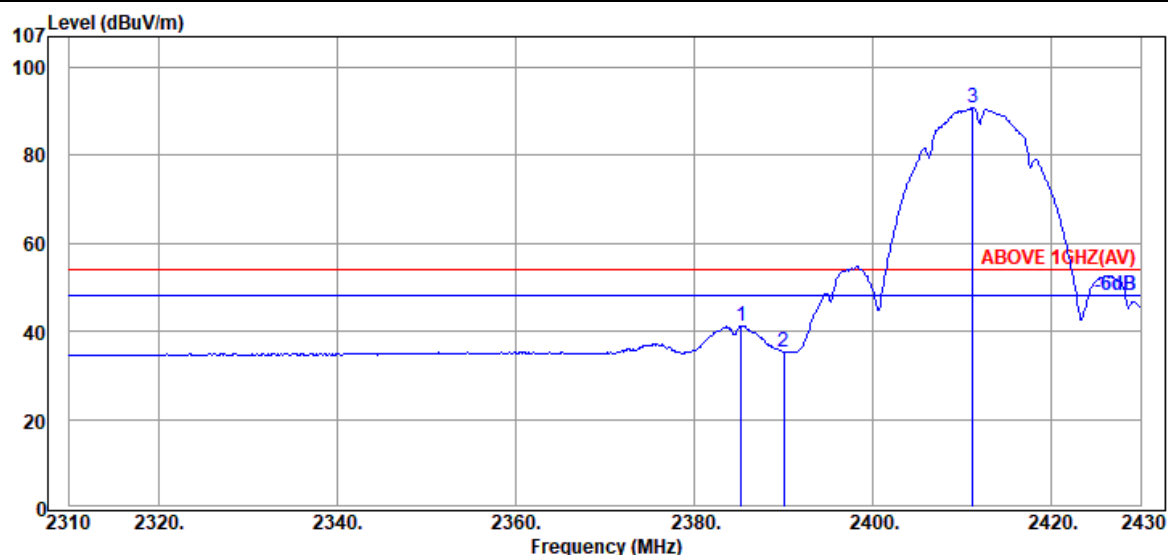
Band Edge:

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2383.560	28.20	5.72	39.93	55.23	49.22	74.00	24.78	Peak
2390.040	28.20	5.72	39.93	51.81	45.80	74.00	28.20	Peak
@ 2410.440	28.23	5.75	39.93	99.79	93.84	---	---	Peak



Antenna at Horizontal Polarization

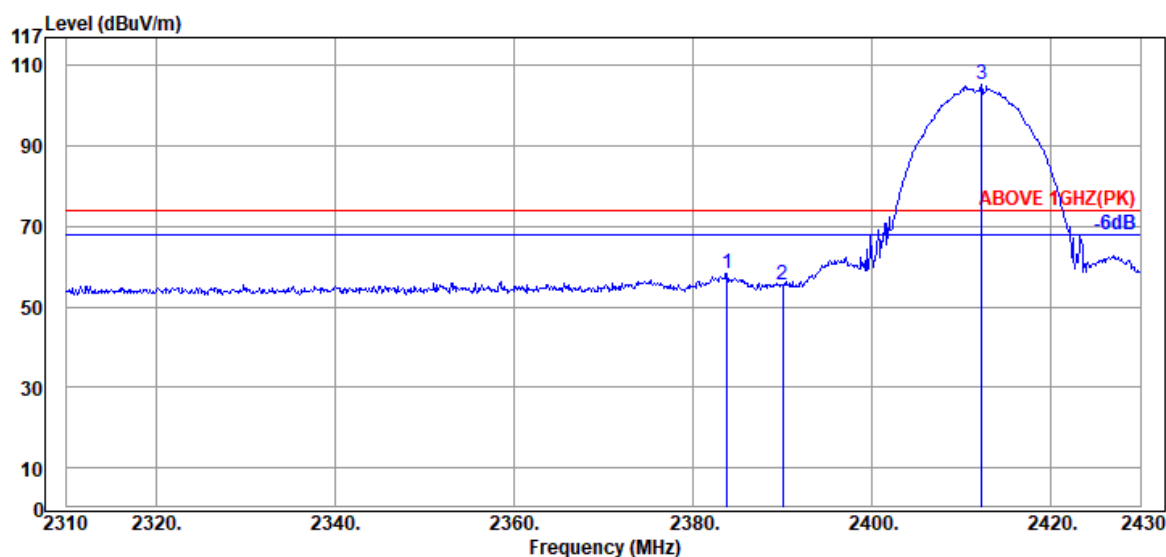
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2385.240	28.20	5.72	39.93	47.33	41.32	54.00	12.68	Average
2390.040	28.20	5.72	39.93	41.43	35.42	54.00	18.58	Average
@ 2411.160	28.23	5.75	39.93	96.93	90.98	---	---	Average

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

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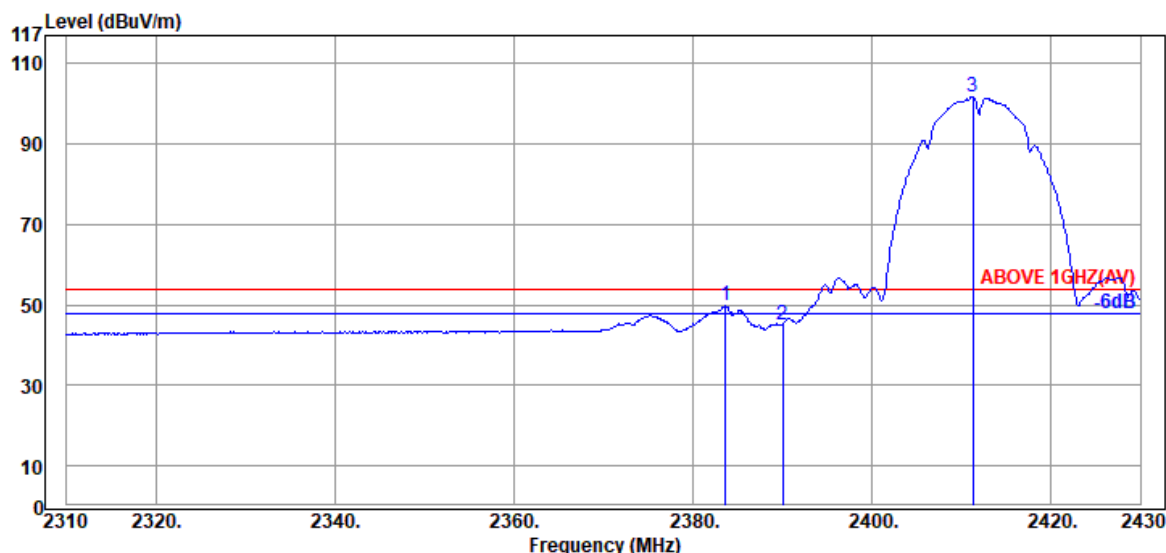
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Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2383.800	28.20	5.72	39.93	64.27	58.26	74.00	15.74	Peak
2390.040	28.20	5.72	39.93	61.35	55.34	74.00	18.66	Peak
@ 2412.240	28.26	5.76	39.93	111.20	105.29	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2383.680	28.20	5.72	39.93	55.67	49.66	54.00	4.34	Average
2390.040	28.20	5.72	39.93	51.23	45.22	54.00	8.78	Average
@ 2411.280	28.26	5.76	39.93	107.64	101.73	---	---	Average

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

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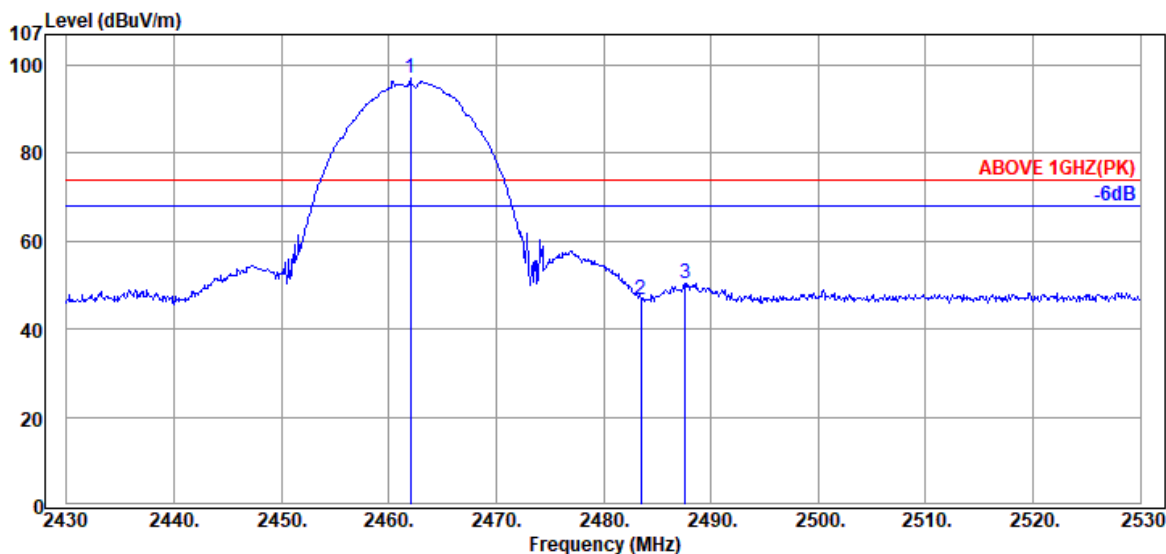
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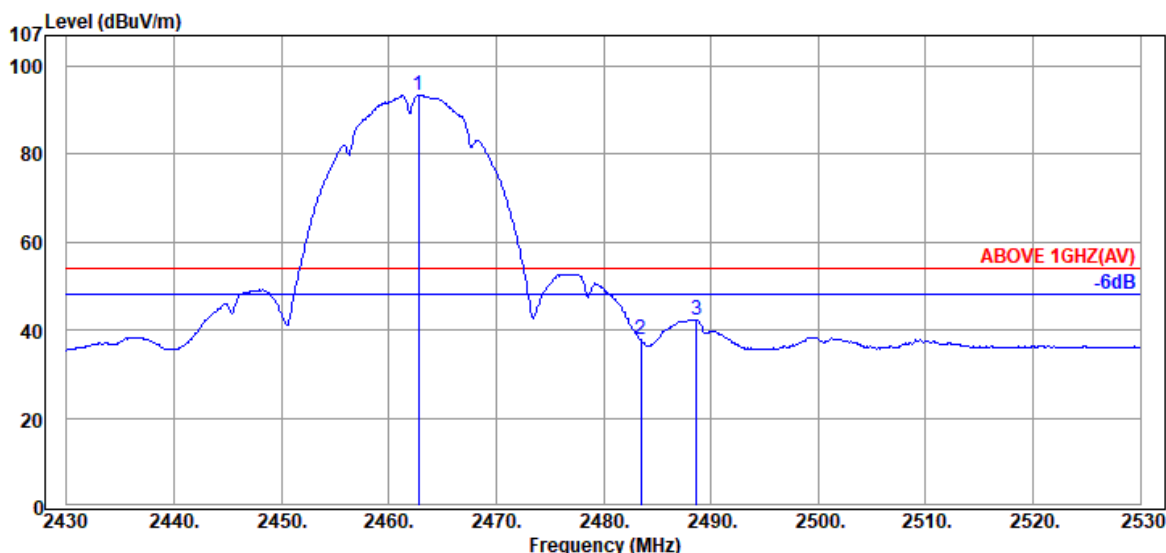
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Mode	802.11b	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2462.000	28.43	5.84	39.92	102.72	97.07	---	---	Peak
2483.500	28.47	5.87	39.92	52.11	46.53	74.00	27.47	Peak
2487.600	28.47	5.87	39.92	55.84	50.26	74.00	23.74	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2462.800	28.43	5.84	39.92	99.12	93.47	---	---	Average
2483.500	28.47	5.87	39.92	43.37	37.79	54.00	16.21	Average
2488.700	28.47	5.87	39.92	47.93	42.35	54.00	11.65	Average

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

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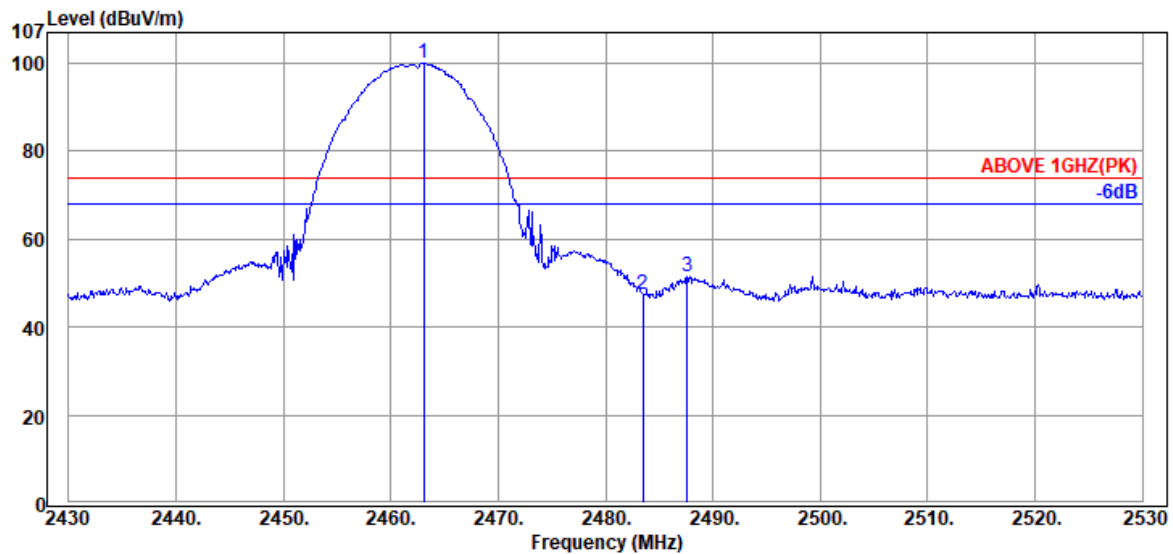
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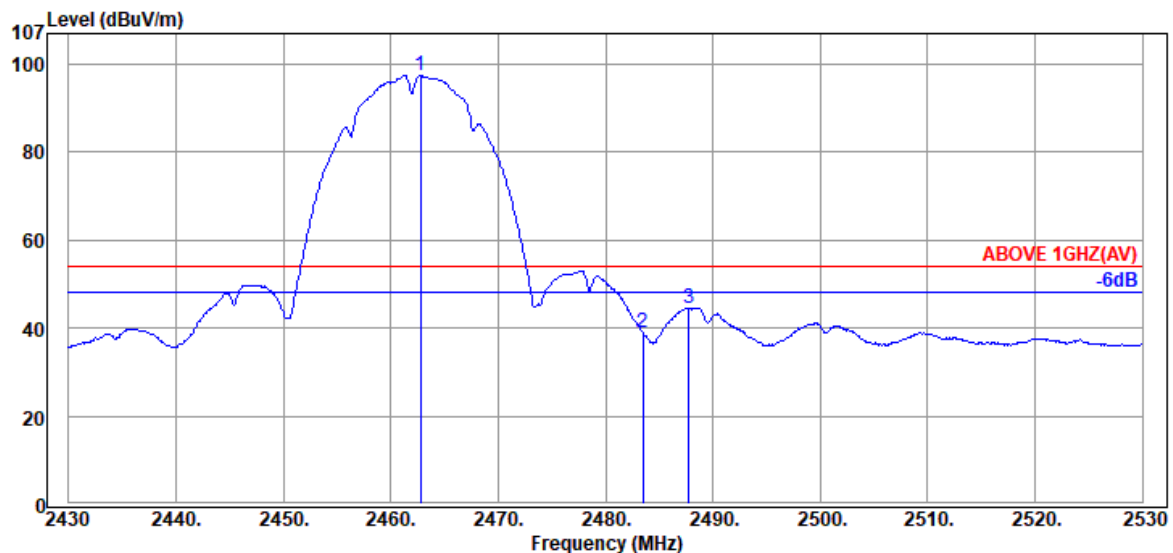
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2463.100	28.43	5.84	39.92	105.82	100.17	---	---	Peak
2483.500	28.47	5.87	39.92	52.99	47.41	74.00	26.59	Peak
2487.600	28.47	5.87	39.92	56.98	51.40	74.00	22.60	Peak

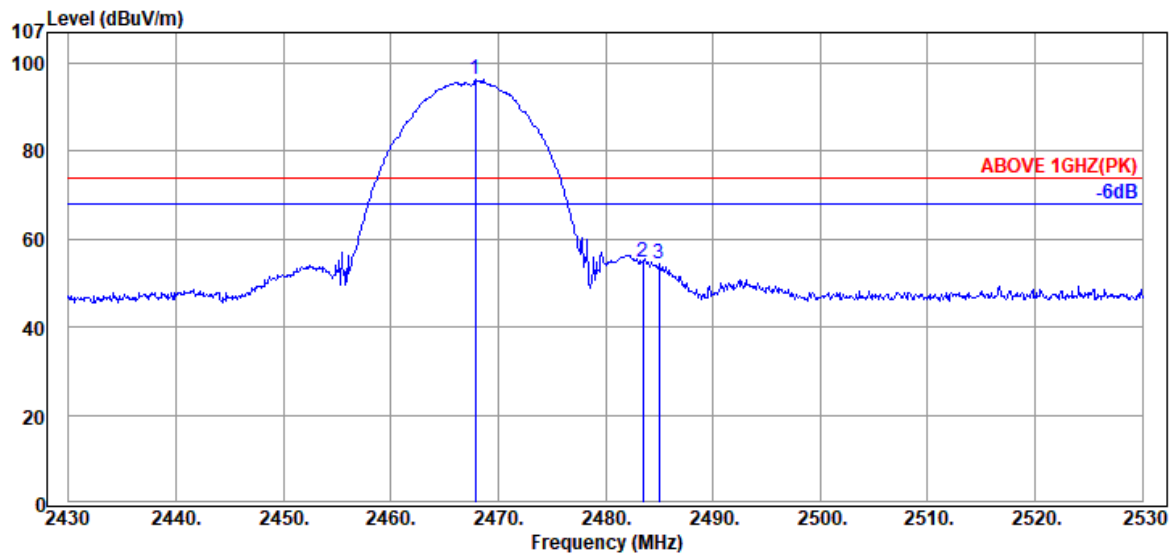


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2462.800	28.43	5.84	39.92	103.12	97.47	---	---	Average
2483.500	28.47	5.87	39.92	44.69	39.11	54.00	14.89	Average
2487.800	28.47	5.87	39.92	50.23	44.65	54.00	9.35	Average

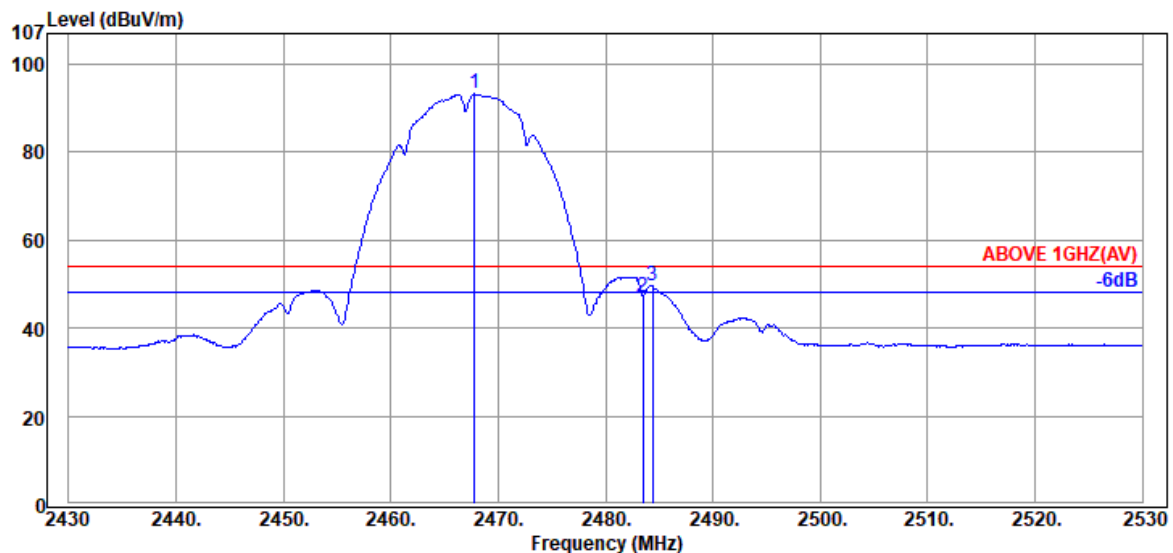
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11b	Frequency	TX 2467MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2467.900	28.44	5.85	39.92	101.92	96.29	---	---	Peak
2483.500	28.47	5.87	39.92	60.44	54.86	74.00	19.14	Peak
2485.000	28.47	5.87	39.92	60.02	54.44	74.00	19.56	Peak

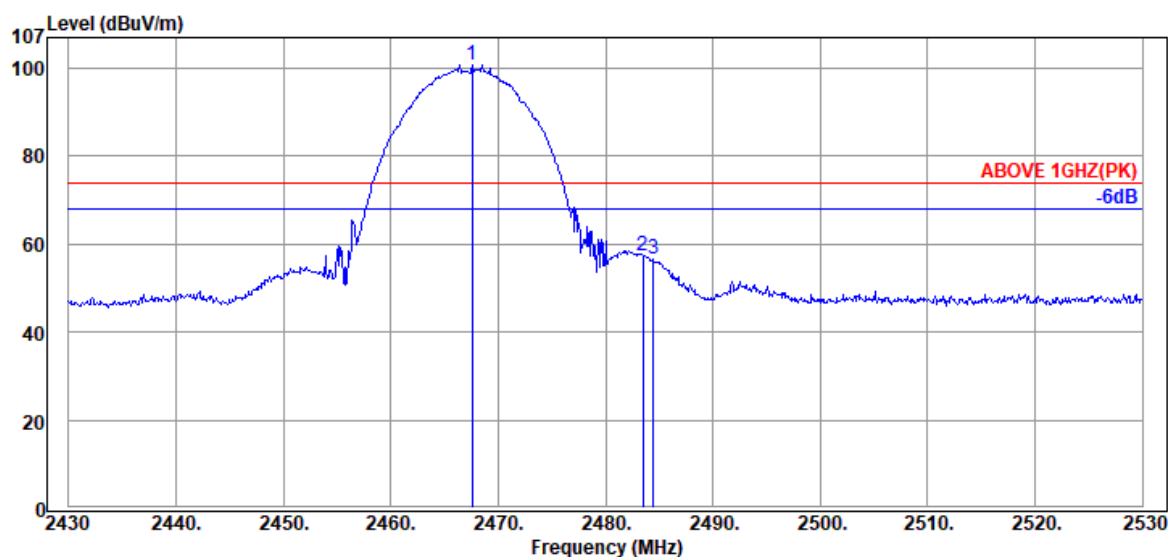


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2467.800	28.44	5.85	39.92	98.96	93.33	---	---	Average
2483.500	28.47	5.87	39.92	52.79	47.21	54.00	6.79	Average
2484.400	28.47	5.87	39.92	55.19	49.61	54.00	4.39	Average

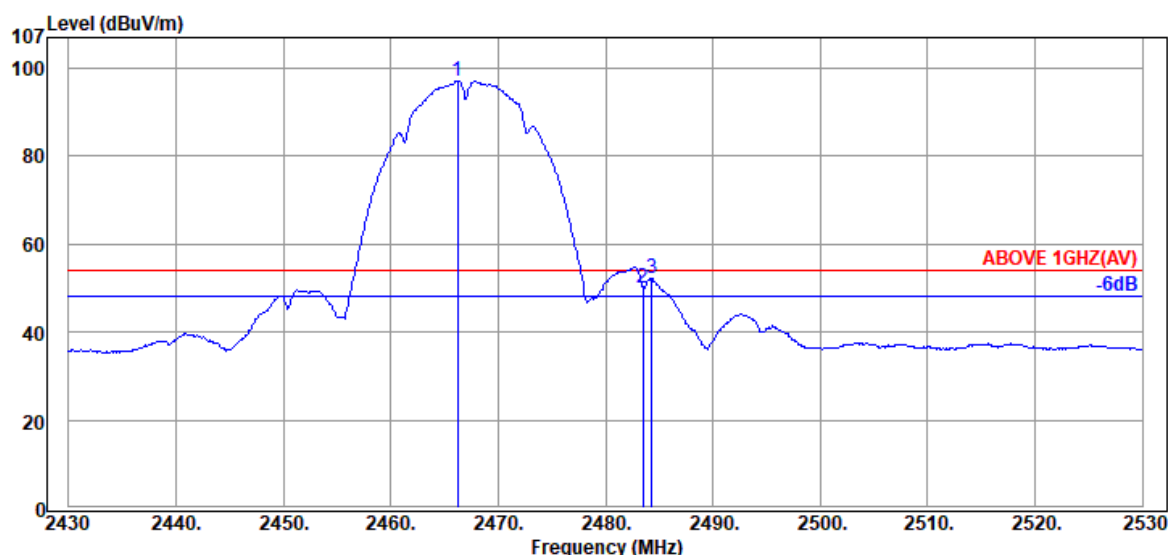
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	802.11b	Frequency	TX 2467MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2467.600	28.44	5.85	39.92	106.31	100.68	---	---	Peak
2483.500	28.47	5.87	39.92	63.08	57.50	74.00	16.50	Peak
2484.500	28.47	5.87	39.92	62.05	56.47	74.00	17.53	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2466.200	28.43	5.84	39.92	102.81	97.16	---	---	Average
2483.500	28.47	5.87	39.92	55.70	50.12	54.00	3.88	Average
2484.300	28.47	5.87	39.92	57.68	52.10	54.00	1.90	Average

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

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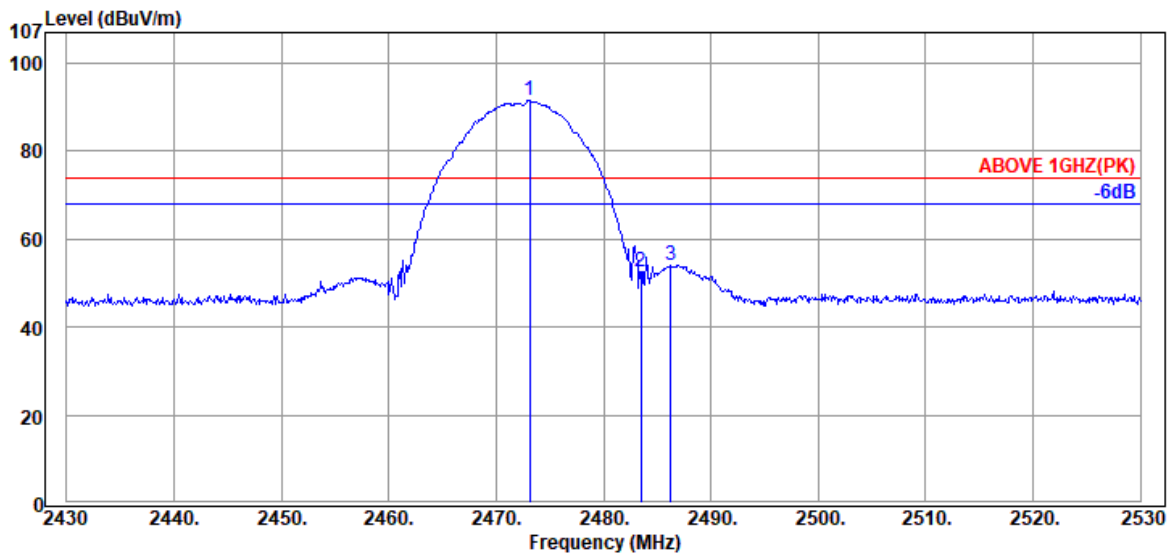
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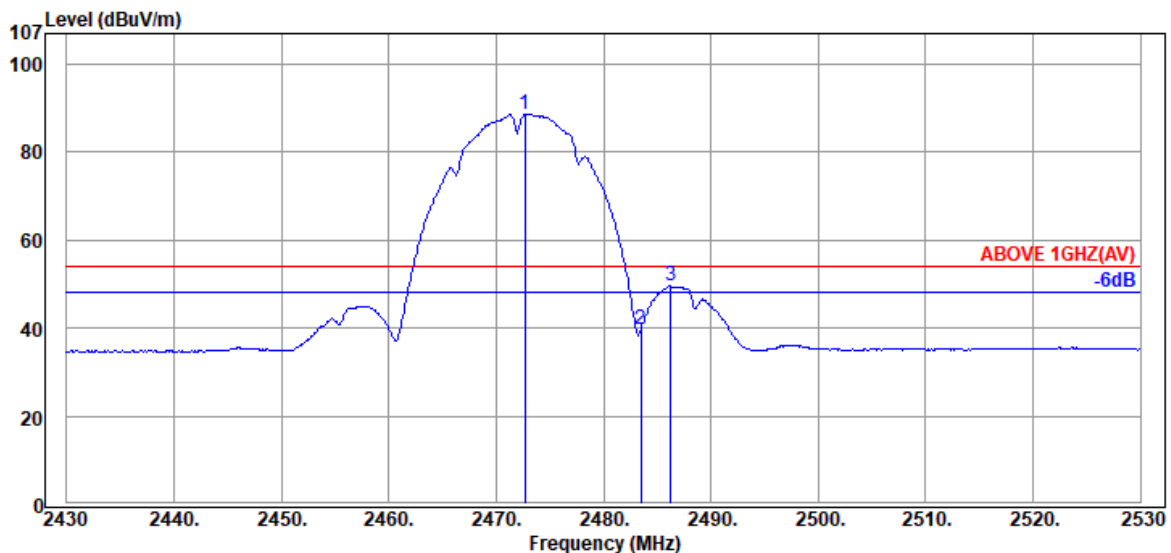
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Mode	802.11b	Frequency	TX 2472MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2473.100	28.44	5.85	39.92	97.17	91.54	---	---	Peak
2483.500	28.47	5.87	39.92	58.15	52.57	74.00	21.43	Peak
2486.300	28.47	5.87	39.92	59.63	54.05	74.00	19.95	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2472.700	28.44	5.85	39.92	94.42	88.79	---	---	Average
2483.500	28.47	5.87	39.92	45.23	39.65	54.00	14.35	Average
2486.300	28.47	5.87	39.92	55.11	49.53	54.00	4.47	Average

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

File Number: C1M2207002

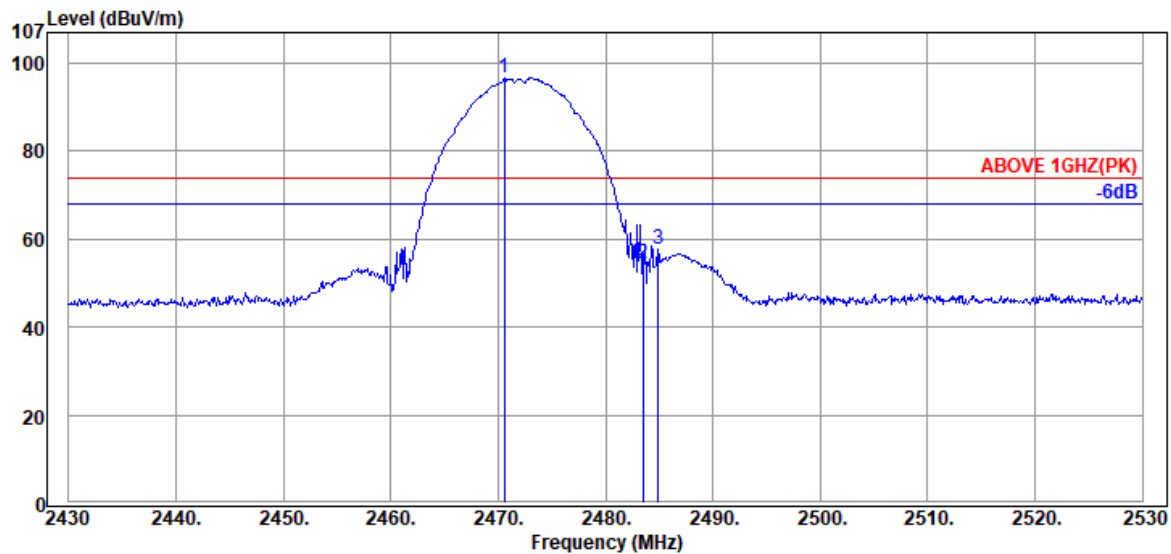
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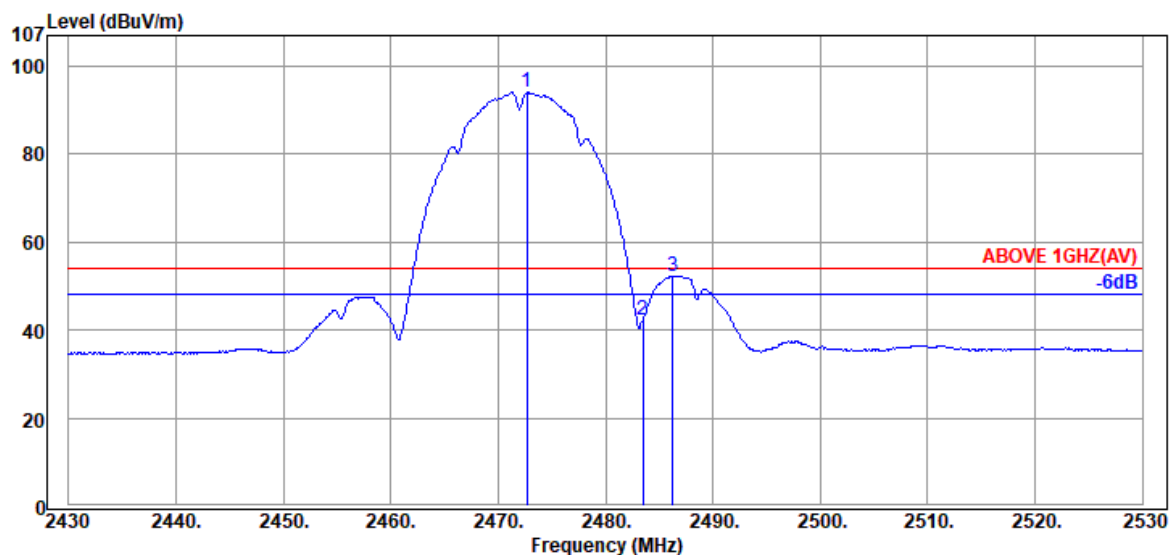
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Mode	802.11b	Frequency	TX 2472MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2470.600	28.44	5.85	39.92	102.37	96.74	---	---	Peak
2483.500	28.47	5.87	39.92	59.82	54.24	74.00	19.76	Peak
2484.900	28.47	5.87	39.92	63.36	57.78	74.00	16.22	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2472.700	28.44	5.85	39.92	99.67	94.04	---	---	Average
2483.500	28.47	5.87	39.92	47.91	42.33	54.00	11.67	Average
2486.300	28.47	5.87	39.92	57.94	52.36	54.00	1.64	Average

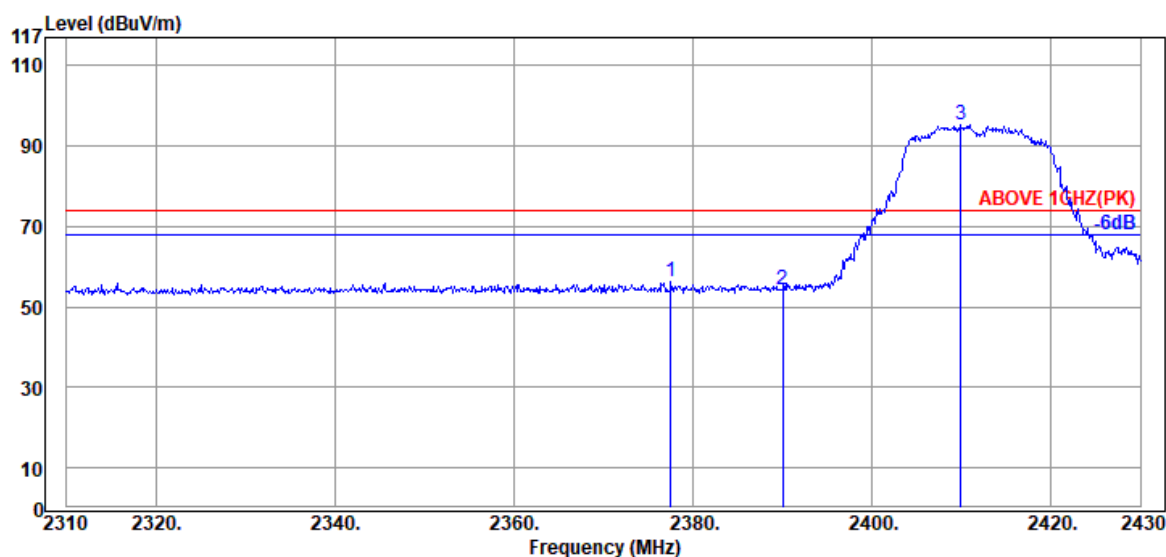
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File Number: CIM2207002

Report Number: EM-F220521

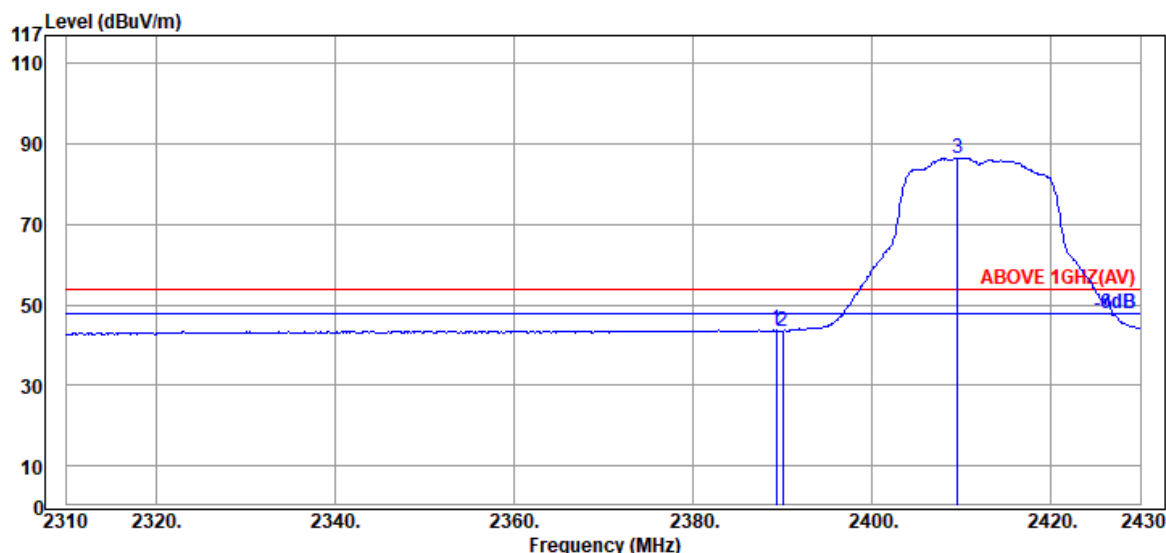
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Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2377.560	28.20	5.71	39.93	62.48	56.46	74.00	17.54	Peak
2390.040	28.20	5.72	39.93	60.33	54.32	74.00	19.68	Peak
@ 2409.960	28.23	5.75	39.93	101.39	95.44	---	---	Peak

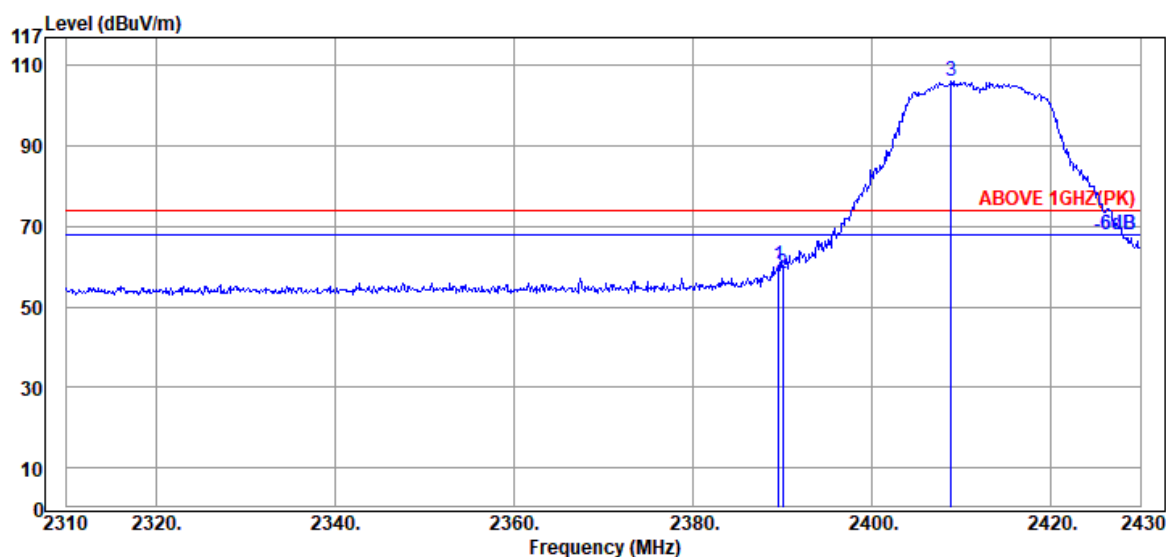


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.320	28.20	5.72	39.93	49.71	43.70	54.00	10.30	Average
2390.040	28.20	5.72	39.93	49.57	43.56	54.00	10.44	Average
@ 2409.600	28.23	5.75	39.93	92.59	86.64	---	---	Average

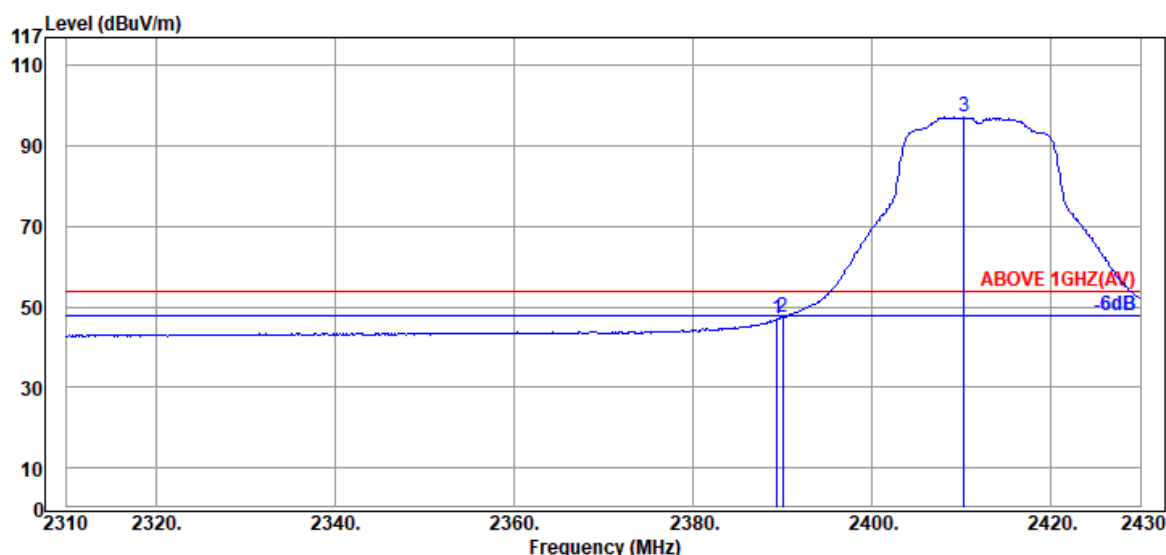
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.560	28.20	5.72	39.93	66.20	60.19	74.00	13.81	Peak
2390.040	28.20	5.72	39.93	64.37	58.36	74.00	15.64	Peak
@ 2408.880	28.23	5.75	39.93	112.06	106.11	---	---	Peak



Antenna at Vertical Polarization

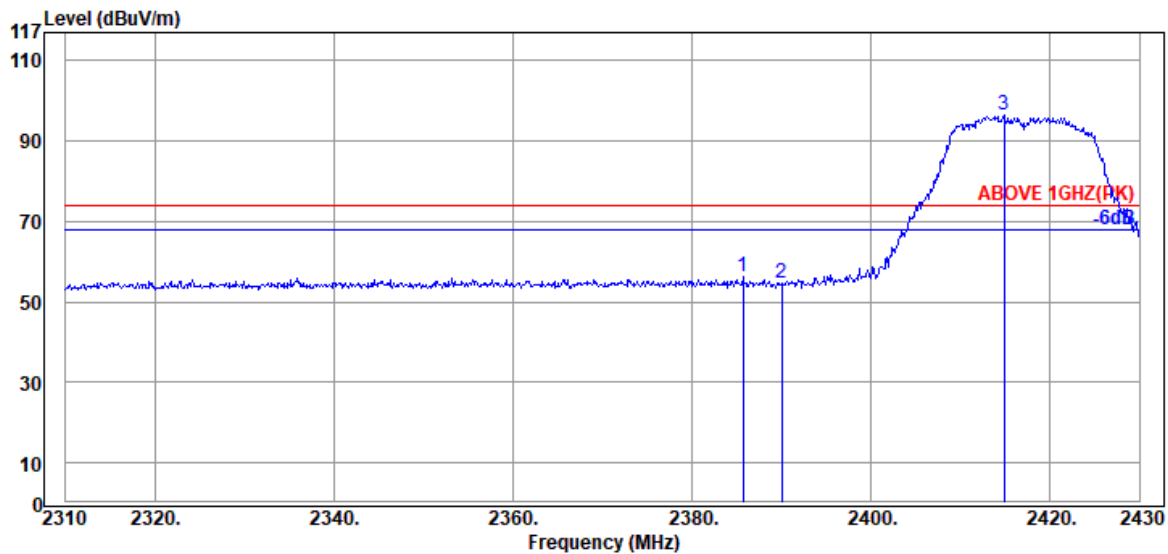
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2389.440	28.20	5.72	39.93	53.05	47.04	54.00	6.96	Average
2390.040	28.20	5.72	39.93	53.30	47.29	54.00	6.71	Average
@ 2410.320	28.23	5.75	39.93	103.22	97.27	---	---	Average

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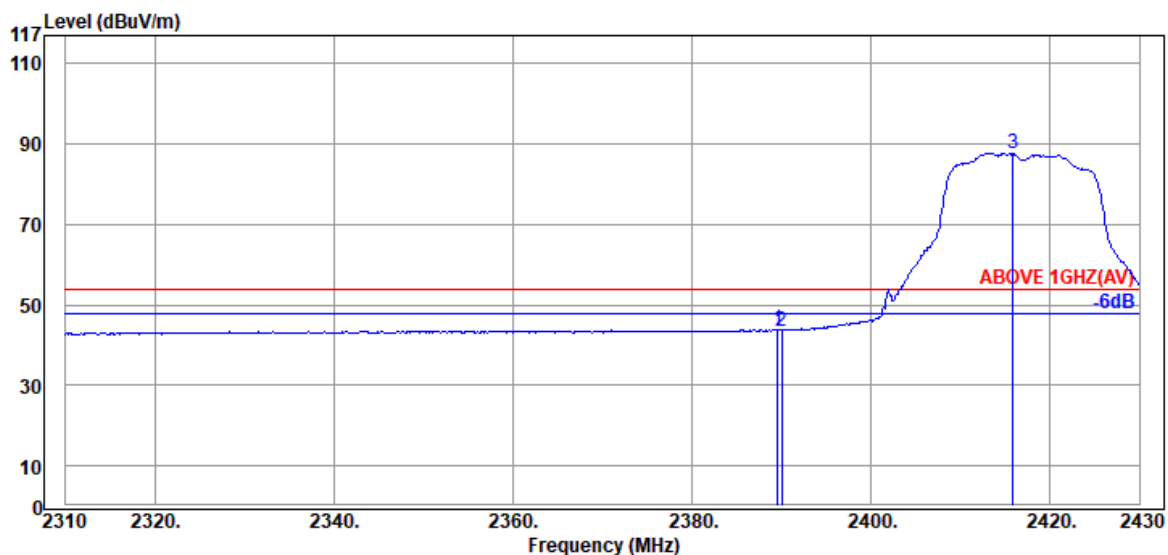
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Mode	802.11g	Frequency	TX 2417MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2385.720	28.20	5.72	39.93	62.22	56.21	74.00	17.79	Peak
2390.040	28.20	5.72	39.93	60.86	54.85	74.00	19.15	Peak
@ 2414.880	28.26	5.76	39.93	102.38	96.47	---	---	Peak



Antenna at Horizontal Polarization

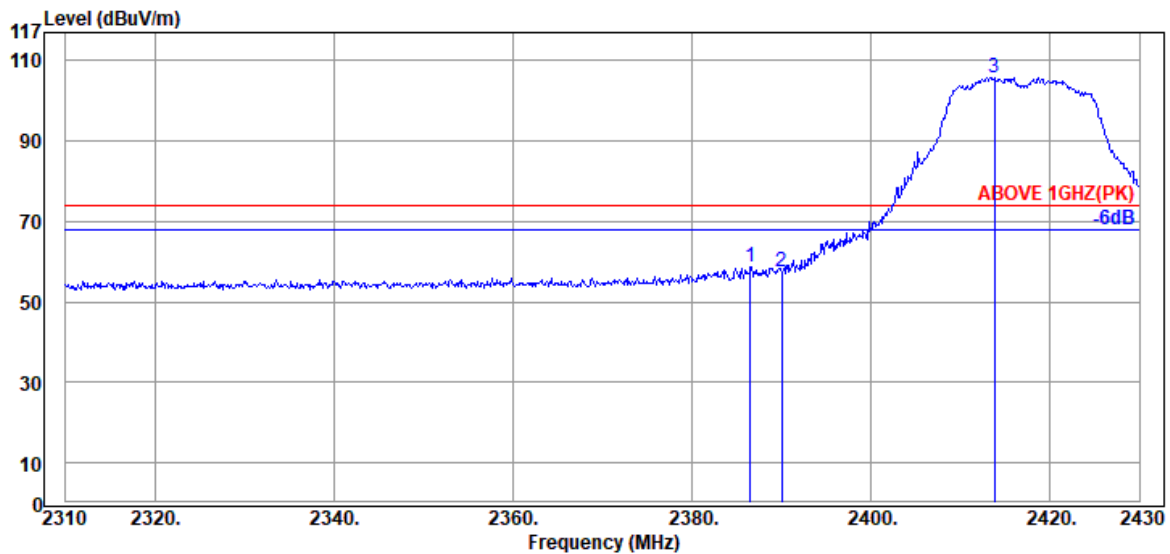
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.560	28.20	5.72	39.93	49.84	43.83	54.00	10.17	Average
2390.040	28.20	5.72	39.93	49.60	43.59	54.00	10.41	Average
@ 2415.840	28.26	5.76	39.93	93.59	87.68	---	---	Average

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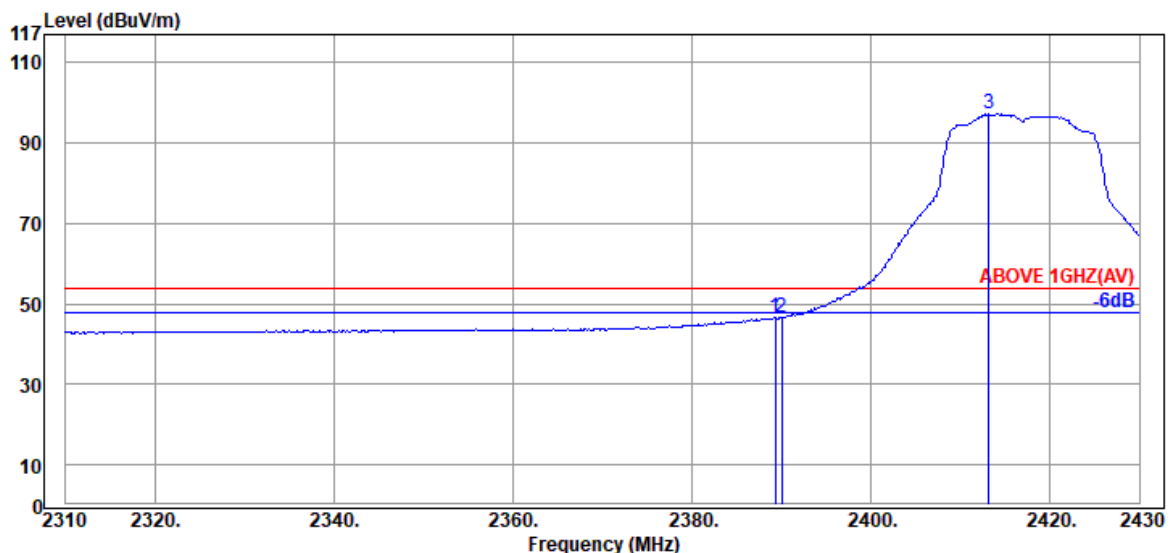
Mode	802.11g	Frequency	TX 2417MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2386.560	28.20	5.72	39.93	64.72	58.71	74.00	15.29	Peak
2390.040	28.20	5.72	39.93	63.56	57.55	74.00	16.45	Peak
@ 2413.800	28.26	5.76	39.93	111.62	105.71	---	---	Peak

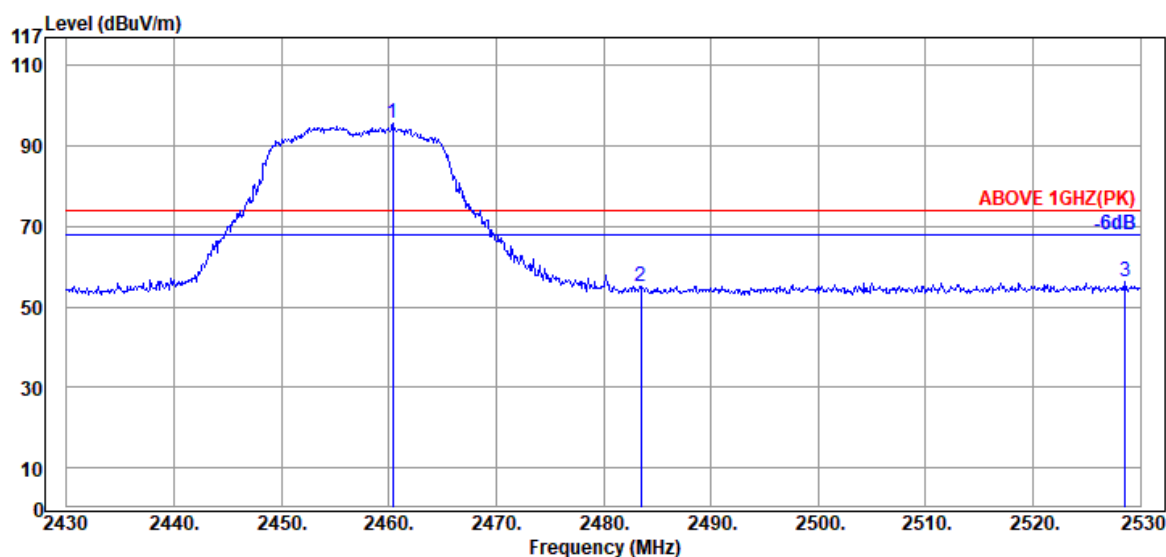
Antenna at Vertical Polarization



Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.320	28.20	5.72	39.93	52.55	46.54	54.00	7.46	Average
2390.040	28.20	5.72	39.93	52.61	46.60	54.00	7.40	Average
@ 2413.200	28.26	5.76	39.93	103.10	97.19	---	---	Average

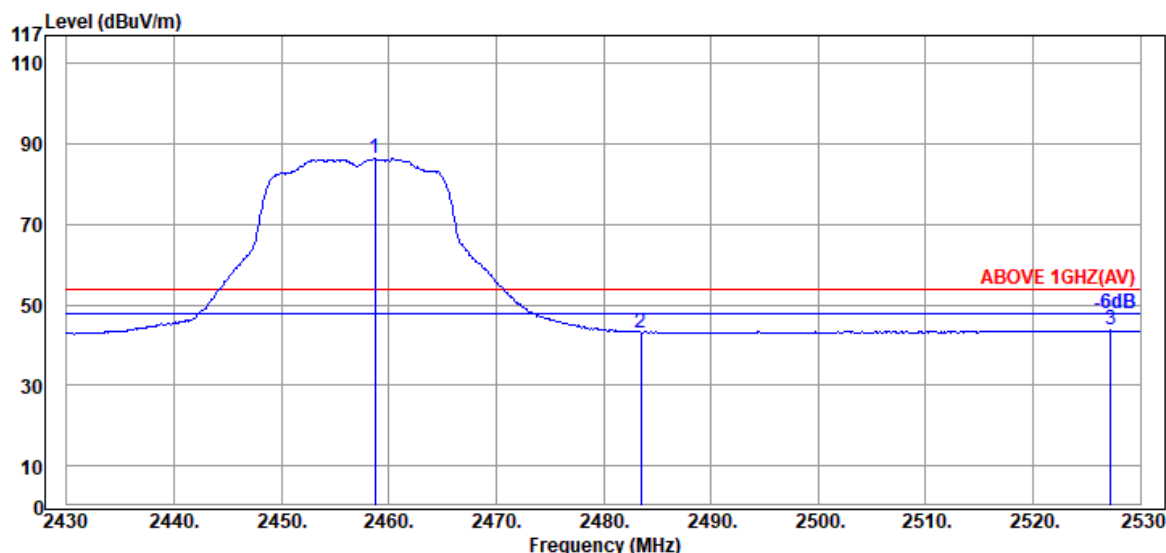
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2460.400	28.41	5.83	39.92	101.35	95.67	---	---	Peak
2483.500	28.47	5.87	39.92	60.58	55.00	74.00	19.00	Peak
2528.600	28.61	5.96	39.93	61.66	56.30	74.00	17.70	Peak



Antenna at Horizontal Polarization

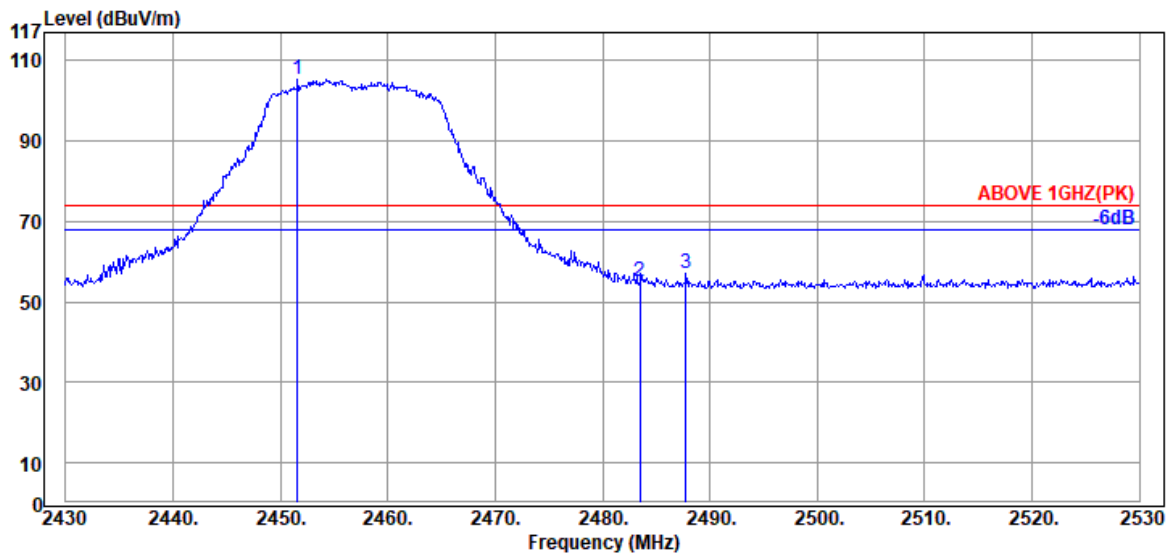
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@ 2458.700	28.41	5.83	39.92	92.02	86.34	---	---	Average
2483.500	28.47	5.87	39.92	48.76	43.18	54.00	10.82	Average
2527.200	28.61	5.96	39.93	49.00	43.64	54.00	10.36	Average

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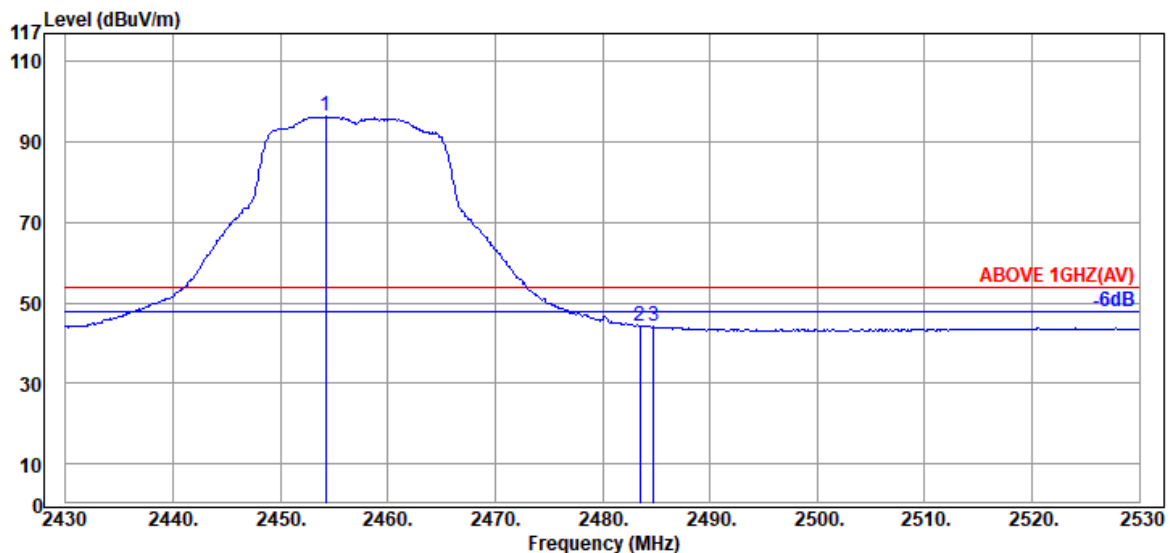
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Mode	802.11g	Frequency	TX 2457MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2451.600	28.40	5.81	39.92	110.86	105.15	---	---	Peak
2483.500	28.47	5.87	39.92	60.78	55.20	74.00	18.80	Peak
2487.800	28.47	5.87	39.92	62.50	56.92	74.00	17.08	Peak

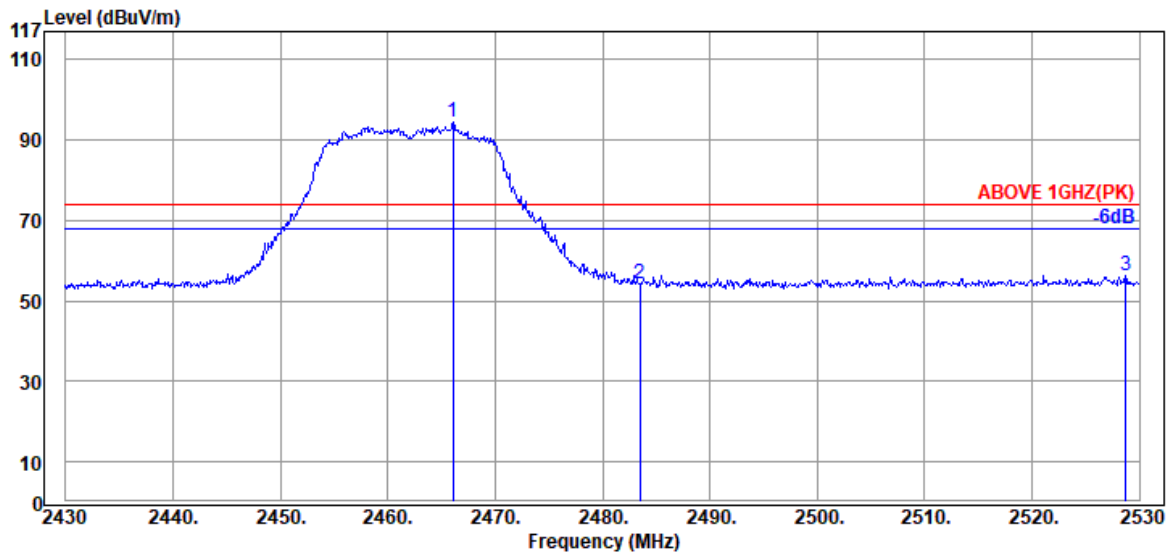


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2454.200	28.41	5.83	39.92	102.00	96.32	---	---	Average
2483.500	28.47	5.87	39.92	49.83	44.25	54.00	9.75	Average
2484.800	28.47	5.87	39.92	49.74	44.16	54.00	9.84	Average

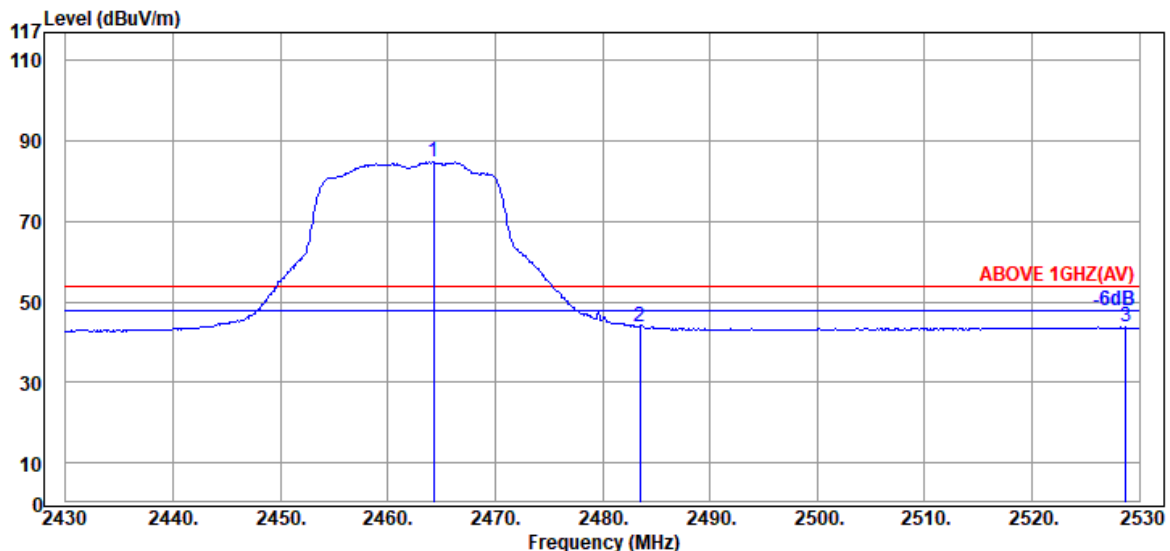
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2466.100	28.43	5.84	39.92	100.01	94.36	---	---	Peak
2483.500	28.47	5.87	39.92	59.97	54.39	74.00	19.61	Peak
2528.700	28.61	5.96	39.93	61.67	56.31	74.00	17.69	Peak

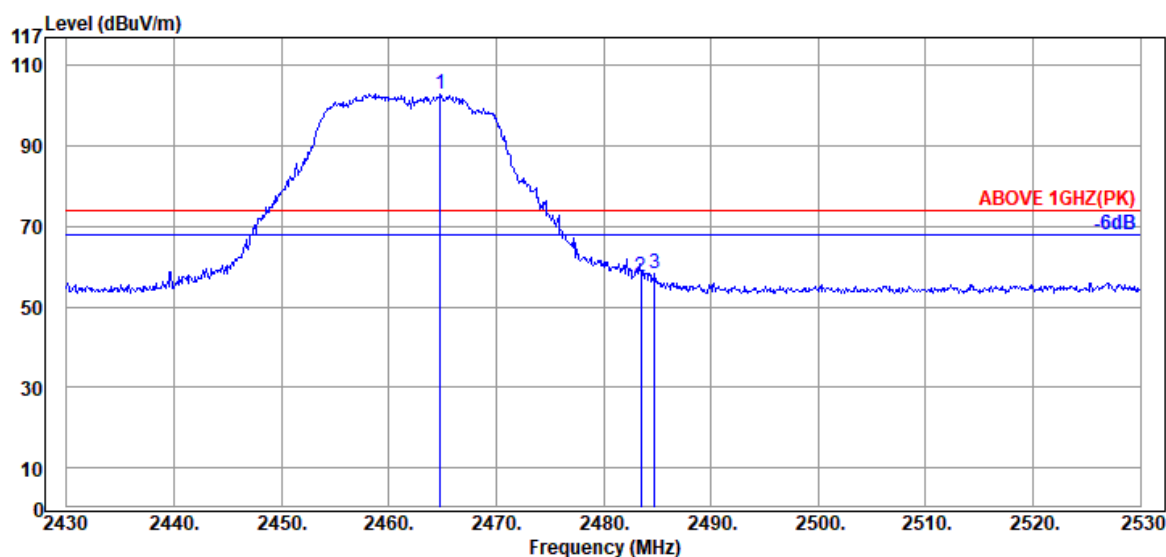


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2464.300	28.43	5.84	39.92	90.40	84.75	---	---	Average
2483.500	28.47	5.87	39.92	49.49	43.91	54.00	10.09	Average
2528.700	28.61	5.96	39.93	49.05	43.69	54.00	10.31	Average

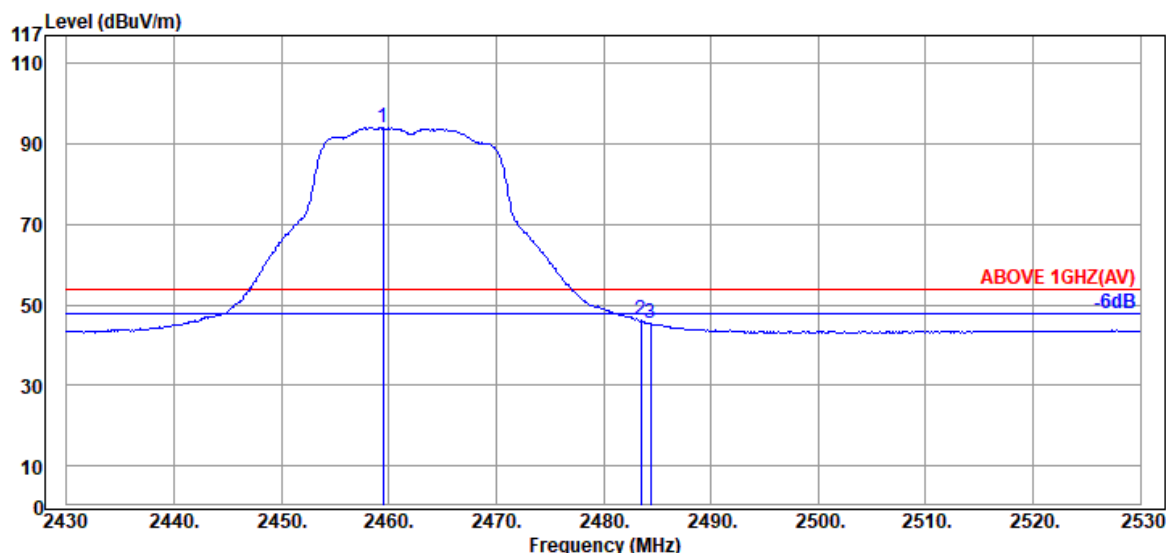
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2464.800	28.43	5.84	39.92	108.50	102.85	---	---	Peak
2483.500	28.47	5.87	39.92	63.07	57.49	74.00	16.51	Peak
2484.800	28.47	5.87	39.92	63.94	58.36	74.00	15.64	Peak



Antenna at Vertical Polarization

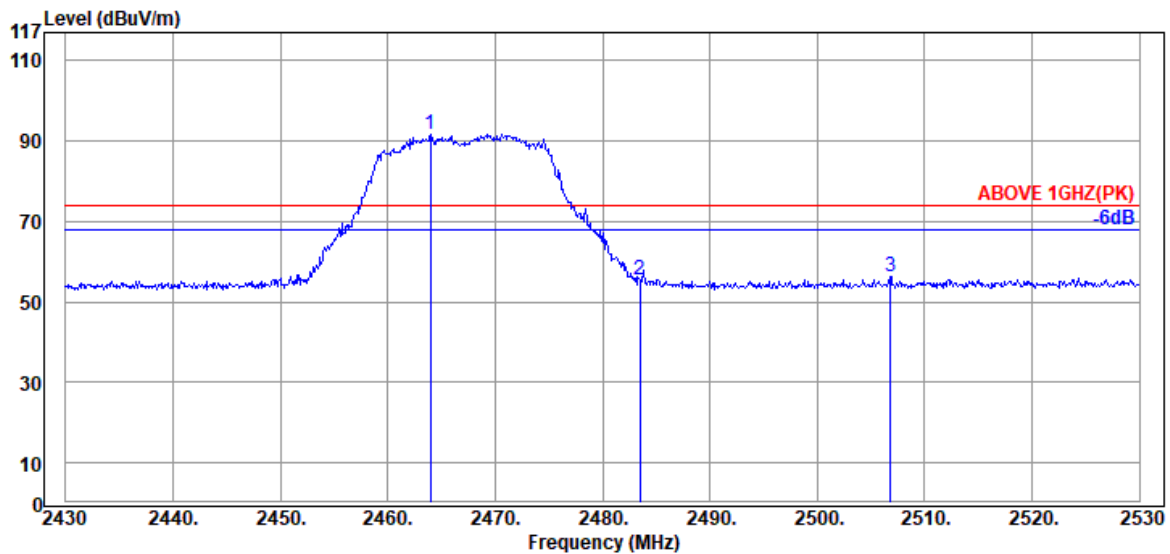
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@ 2459.500	28.41	5.83	39.92	99.79	94.11	---	---	Average
2483.500	28.47	5.87	39.92	51.65	46.07	54.00	7.93	Average
2484.400	28.47	5.87	39.92	51.00	45.42	54.00	8.58	Average

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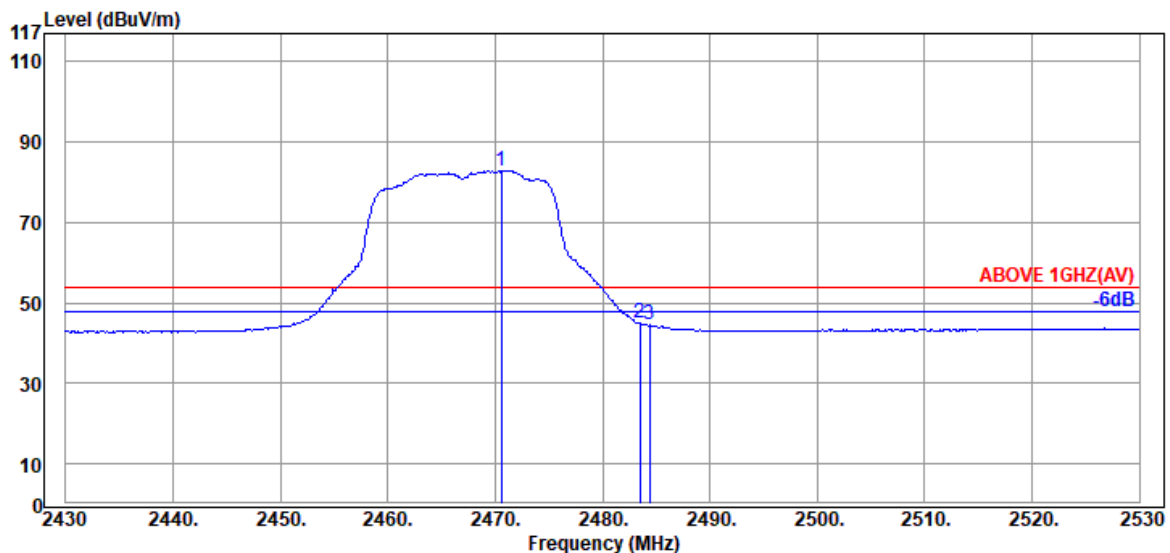
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Mode	802.11g	Frequency	TX 2467MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2464.000	28.43	5.84	39.92	97.28	91.63	---	---	Peak
2483.500	28.47	5.87	39.92	61.11	55.53	74.00	18.47	Peak
2506.800	28.53	5.91	39.92	61.86	56.38	74.00	17.62	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2470.600	28.44	5.85	39.92	88.65	83.02	---	---	Average
2483.500	28.47	5.87	39.92	50.67	45.09	54.00	8.91	Average
2484.400	28.47	5.87	39.92	50.01	44.43	54.00	9.57	Average

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

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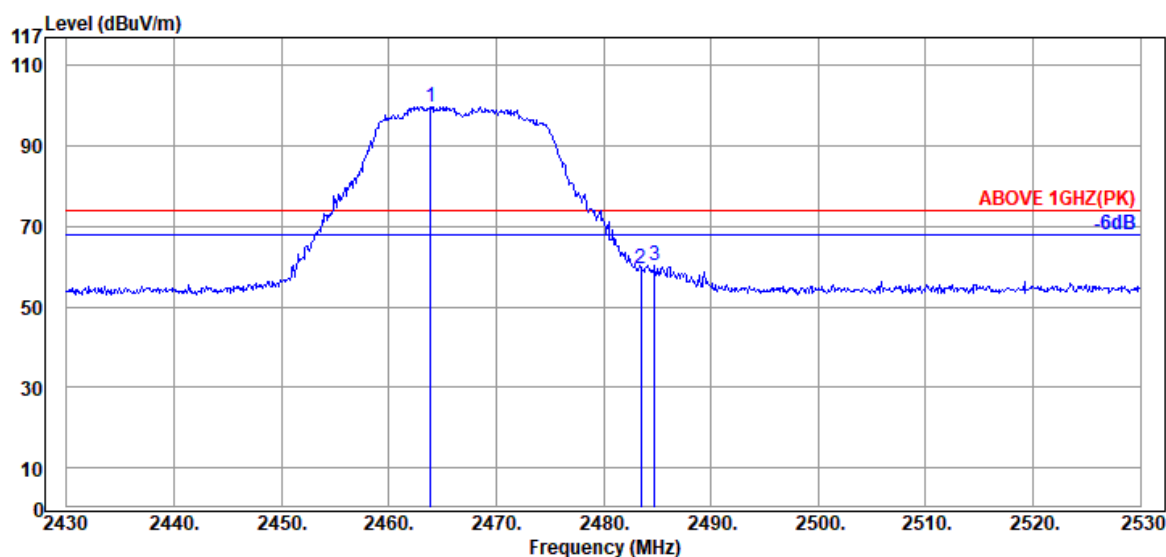
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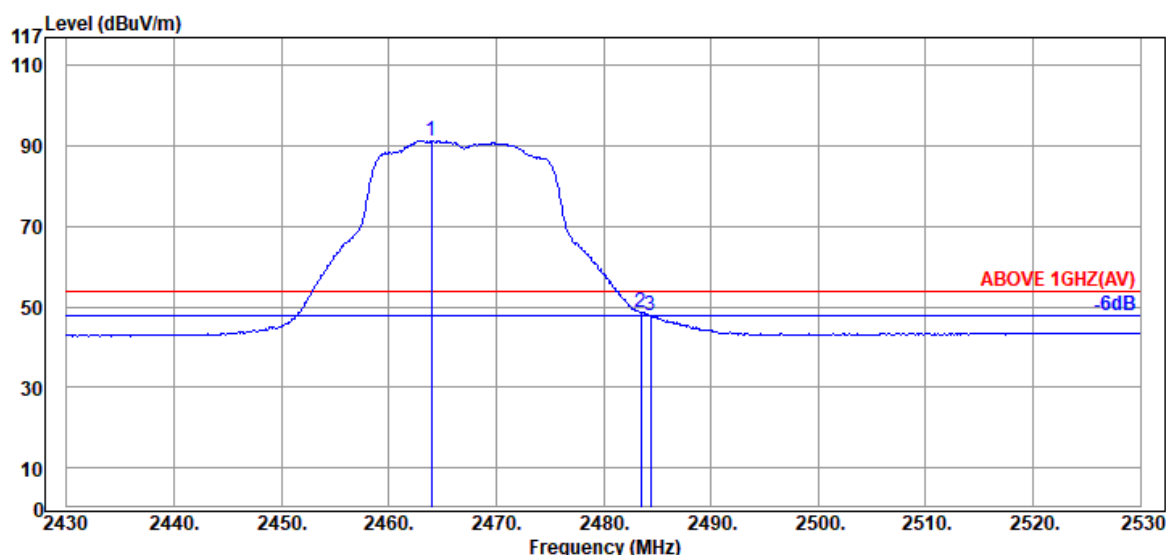
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Mode	802.11g	Frequency	TX 2467MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2463.900	28.43	5.84	39.92	105.54	99.89	---	---	Peak
2483.500	28.47	5.87	39.92	65.27	59.69	74.00	14.31	Peak
2484.800	28.47	5.87	39.92	65.75	60.17	74.00	13.83	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2464.000	28.43	5.84	39.92	96.89	91.24	---	---	Average
2483.500	28.47	5.87	39.92	54.11	48.53	54.00	5.47	Average
2484.400	28.47	5.87	39.92	53.30	47.72	54.00	6.28	Average

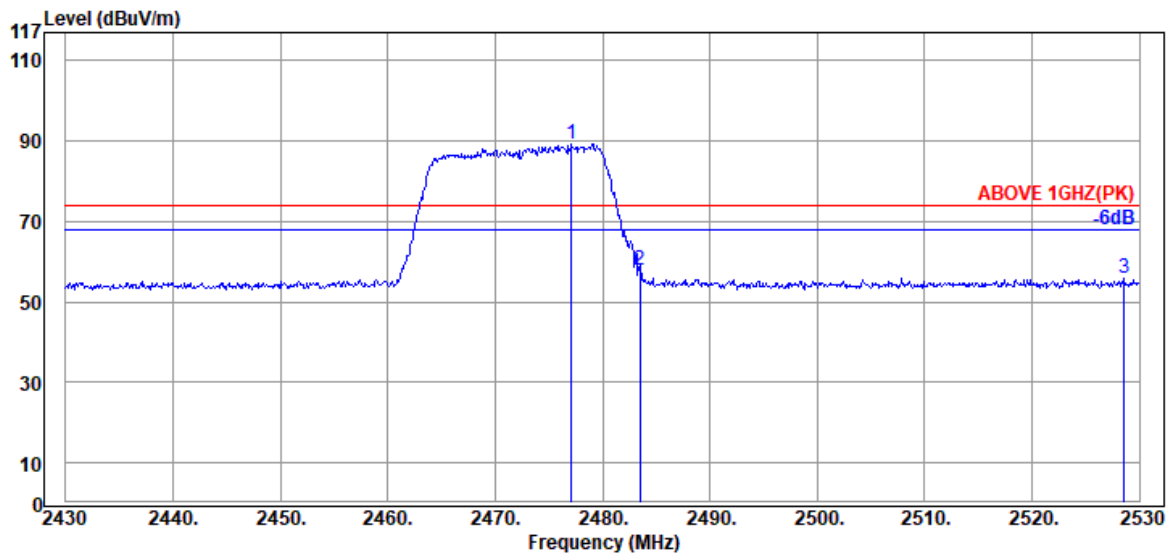
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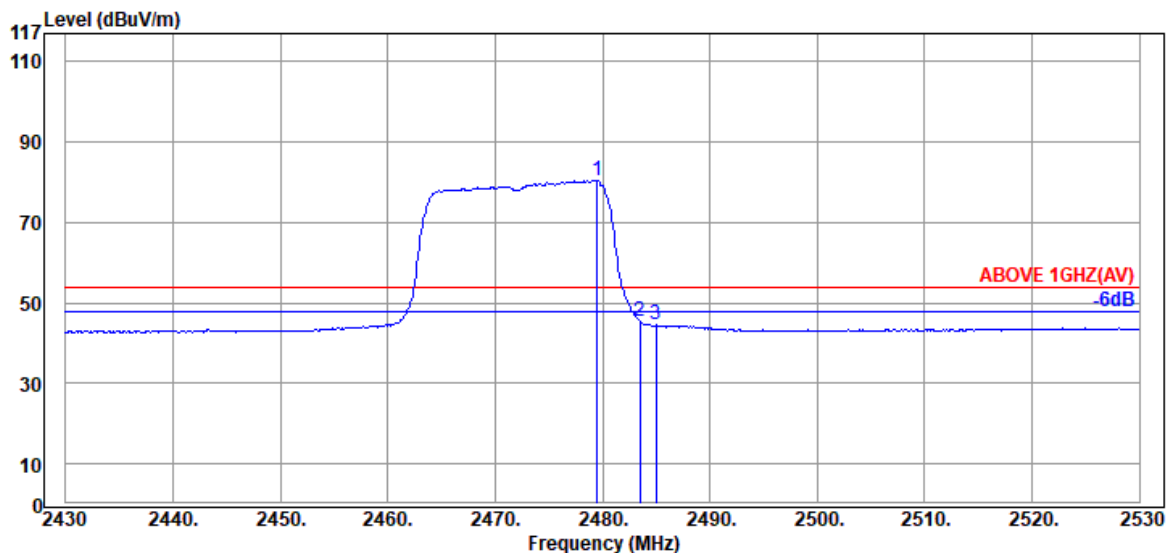
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Mode	802.11g	Frequency	TX 2472MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2477.100	28.46	5.86	39.92	94.90	89.30	---	---	Peak
2483.500	28.47	5.87	39.92	63.56	57.98	74.00	16.02	Peak
2528.600	28.61	5.96	39.93	61.21	55.85	74.00	18.15	Peak



Antenna at Horizontal Polarization

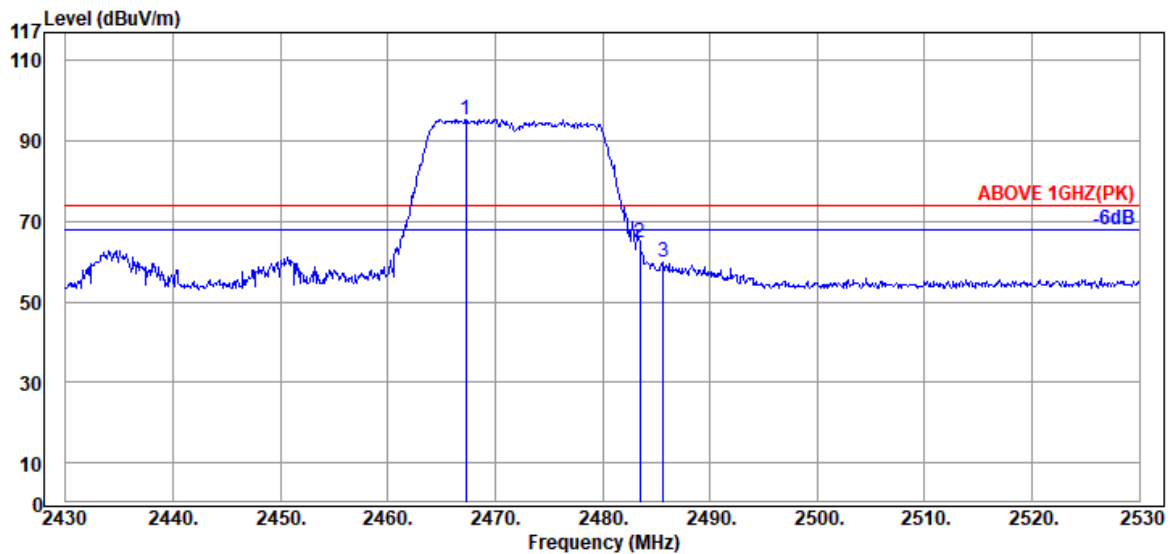
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.500	28.46	5.86	39.92	86.19	80.59	---	---	Average
2483.500	28.47	5.87	39.92	51.03	45.45	54.00	8.55	Average
2485.000	28.47	5.87	39.92	50.18	44.60	54.00	9.40	Average

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

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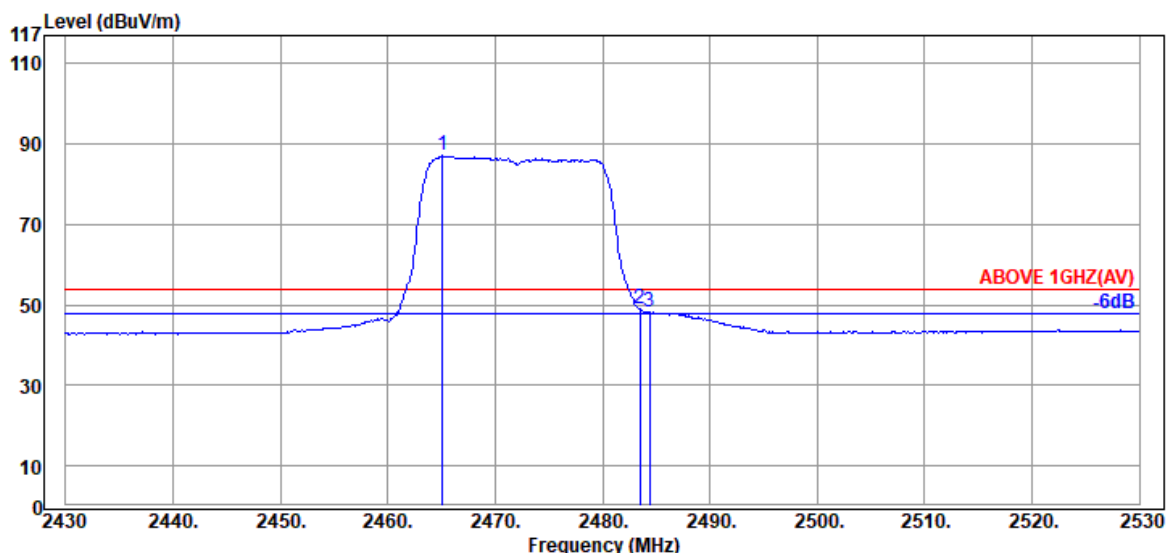
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Mode	802.11g	Frequency	TX 2472MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2467.300	28.43	5.84	39.92	101.08	95.43	---	---	Peak
2483.500	28.47	5.87	39.92	70.37	64.79	74.00	9.21	Peak
2485.700	28.47	5.87	39.92	65.46	59.88	74.00	14.12	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2465.100	28.43	5.84	39.92	92.73	87.08	---	---	Average
2483.500	28.47	5.87	39.92	54.57	48.99	54.00	5.01	Average
2484.400	28.47	5.87	39.92	53.79	48.21	54.00	5.79	Average

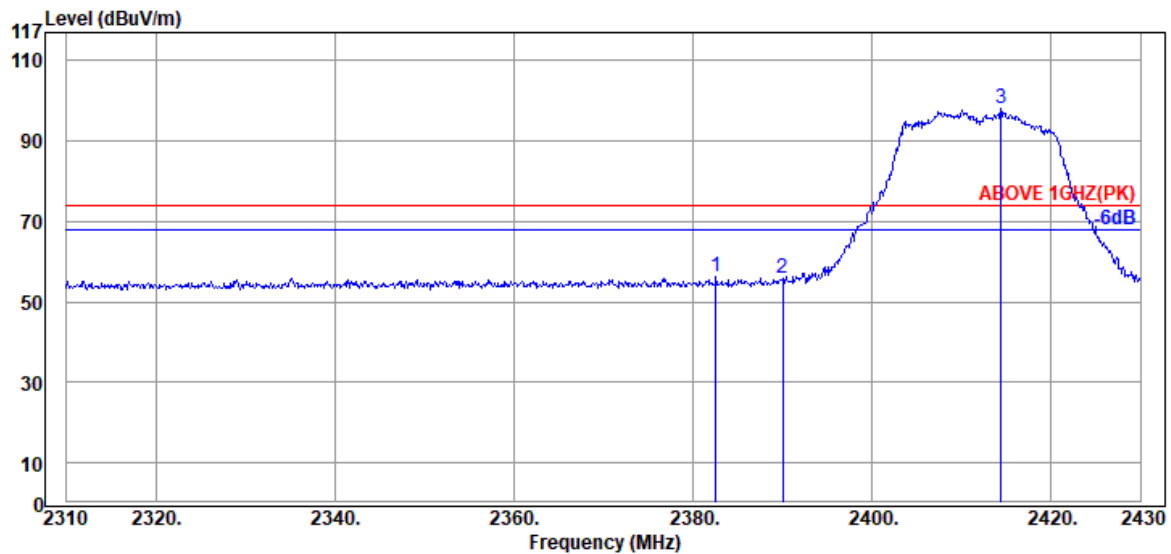
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Report Number: EM-F220521

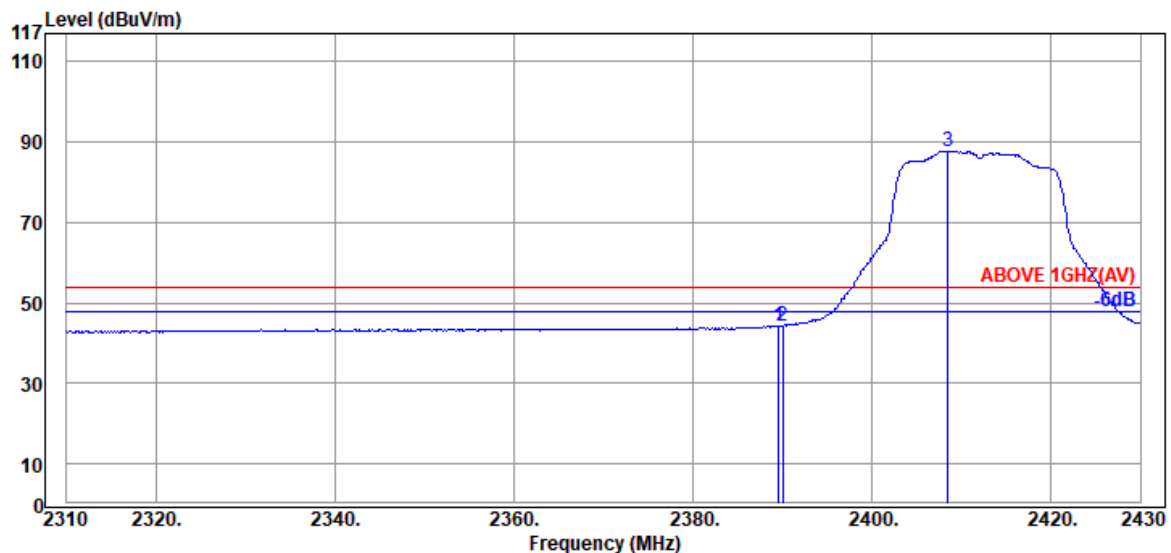
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Mode	802.11n-HT20	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2382.600	28.20	5.71	39.93	62.17	56.15	74.00	17.85	Peak
2390.040	28.20	5.72	39.93	61.98	55.97	74.00	18.03	Peak
@ 2414.400	28.26	5.76	39.93	103.94	98.03	---	---	Peak



Antenna at Horizontal Polarization

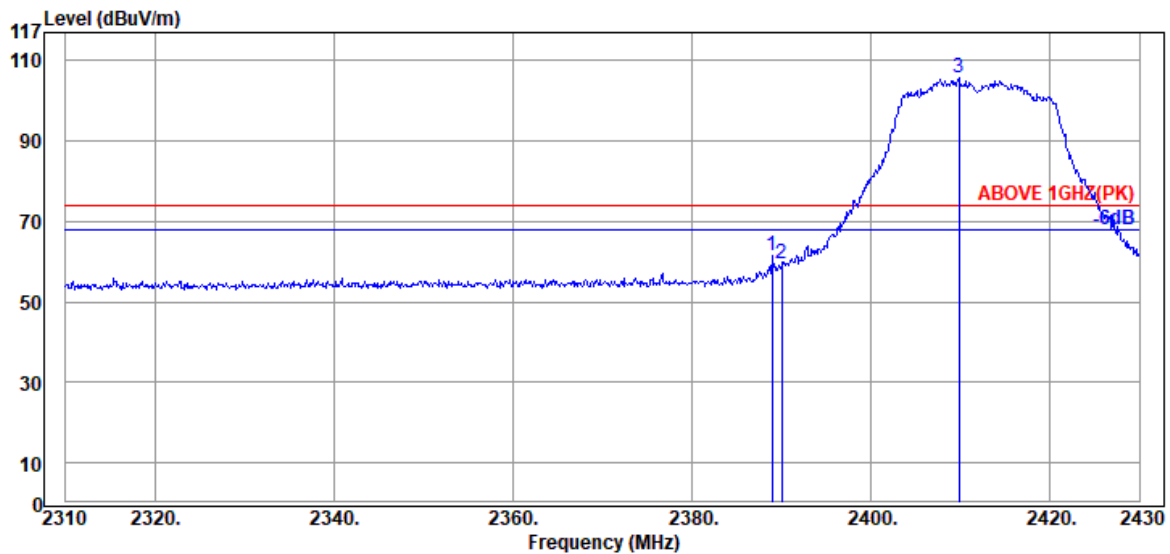
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.560	28.20	5.72	39.93	50.25	44.24	54.00	9.76	Average
2390.040	28.20	5.72	39.93	50.21	44.20	54.00	9.80	Average
@ 2408.520	28.23	5.75	39.93	93.69	87.74	---	---	Average

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

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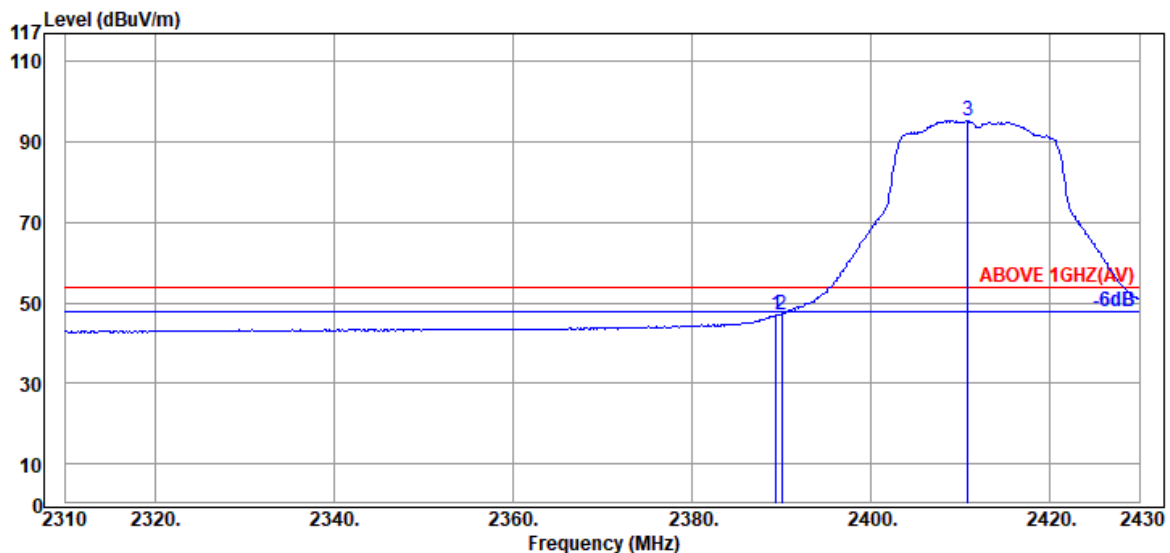
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Mode	802.11n-HT20	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2388.960	28.20	5.72	39.93	67.47	61.46	74.00	12.54	Peak
2390.040	28.20	5.72	39.93	65.36	59.35	74.00	14.65	Peak
@ 2409.840	28.23	5.75	39.93	111.54	105.59	---	---	Peak

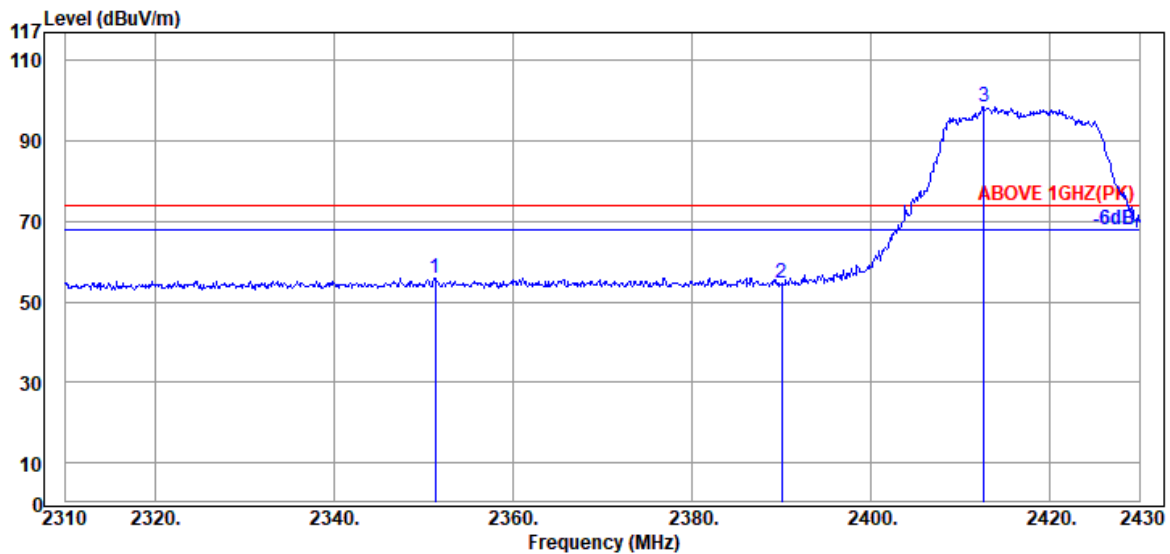


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.440	28.20	5.72	39.93	53.11	47.10	54.00	6.90	Average
2390.040	28.20	5.72	39.93	53.11	47.10	54.00	6.90	Average
@ 2410.800	28.23	5.75	39.93	101.31	95.36	---	---	Average

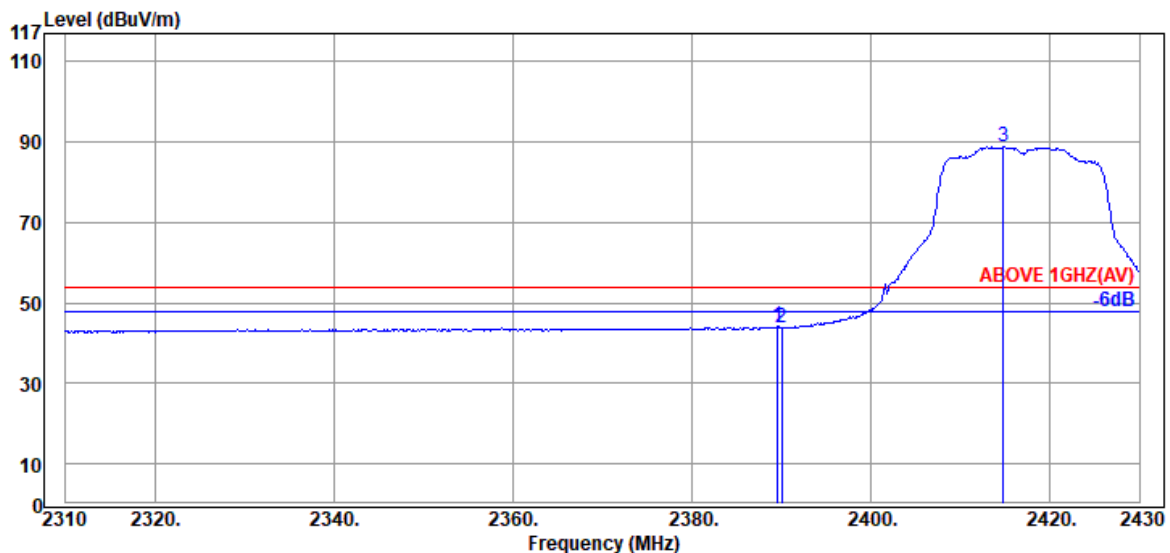
Remark: The “@” means fundamental frequency, it is ignored in this section.

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2351.280	28.20	5.66	39.93	62.15	56.08	74.00	17.92	Peak
2390.040	28.20	5.72	39.93	60.81	54.80	74.00	19.20	Peak
@ 2412.600	28.26	5.76	39.93	104.57	98.66	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.560	28.20	5.72	39.93	50.06	44.05	54.00	9.95	Average
2390.040	28.20	5.72	39.93	49.76	43.75	54.00	10.25	Average
@ 2414.760	28.26	5.76	39.93	94.67	88.76	---	---	Average

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

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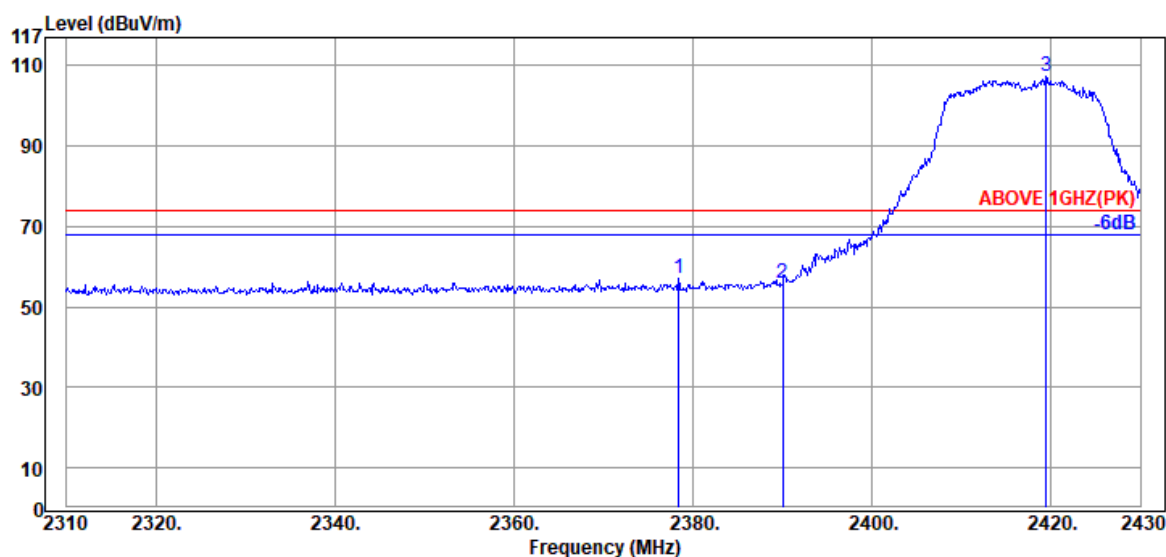
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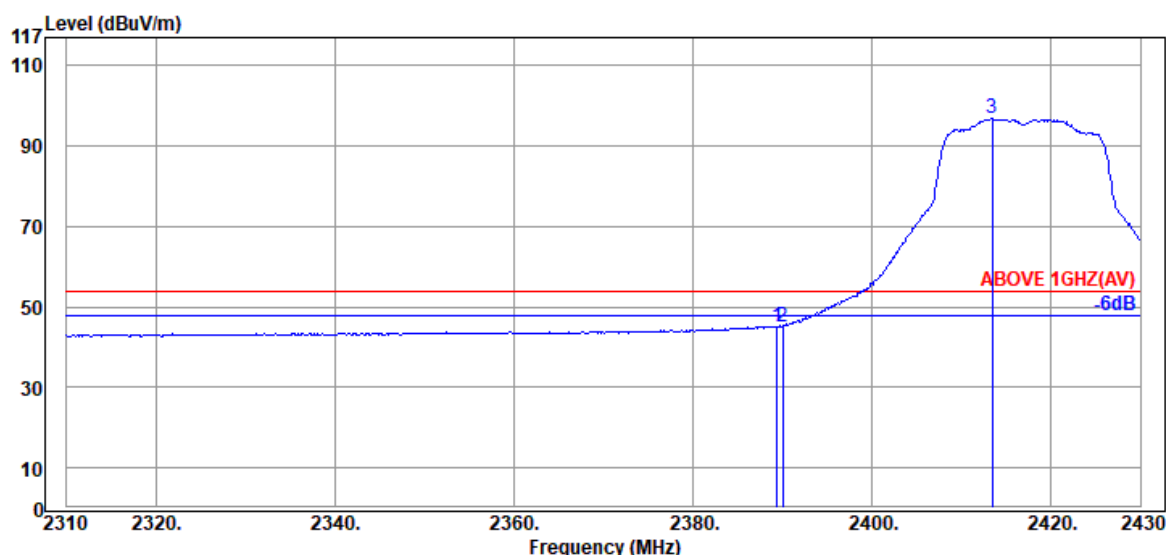
Fax: +886 2 26099303

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2378.400	28.20	5.71	39.93	63.06	57.04	74.00	16.96	Peak
2390.040	28.20	5.72	39.93	61.99	55.98	74.00	18.02	Peak
@ 2419.440	28.29	5.77	39.93	113.02	107.15	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.440	28.20	5.72	39.93	51.24	45.23	54.00	8.77	Average
2390.040	28.20	5.72	39.93	51.19	45.18	54.00	8.82	Average
@ 2413.440	28.26	5.76	39.93	102.70	96.79	---	---	Average

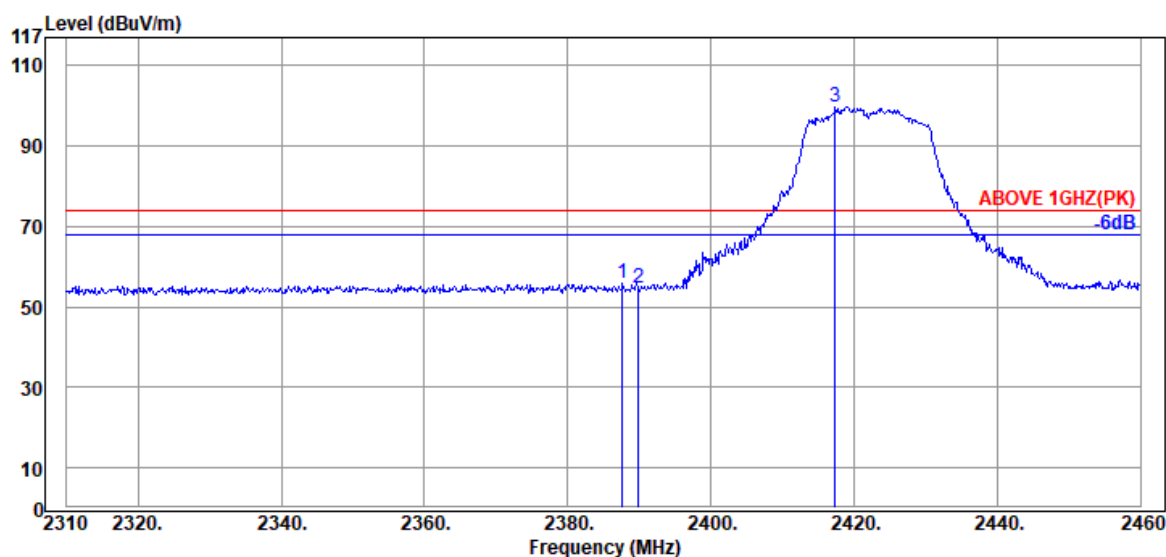
Remark: The “@” means fundamental frequency, it is ignored in this section.

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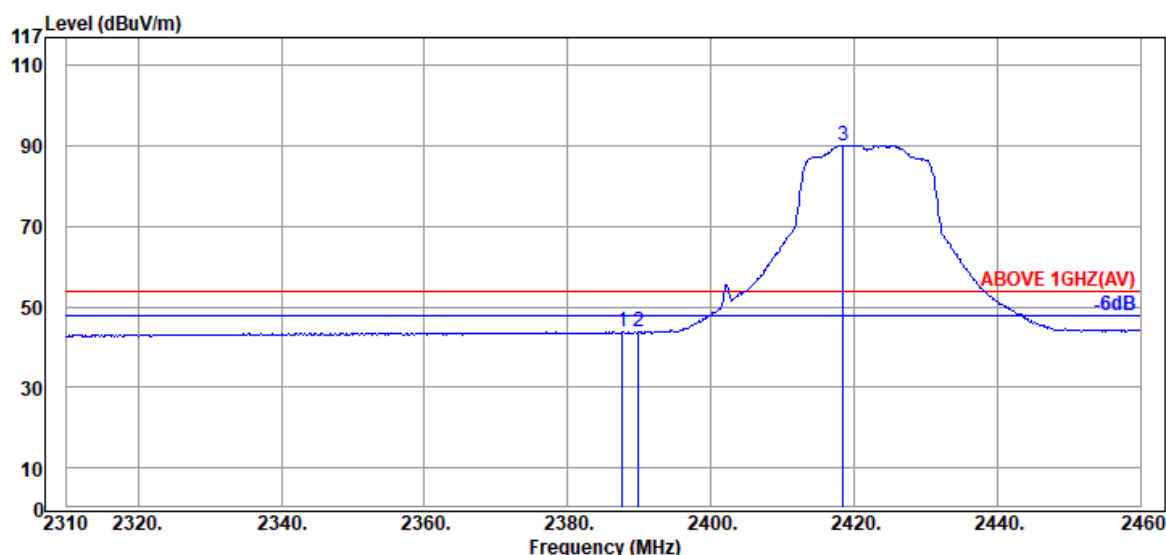
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Mode	802.11n-HT20	Frequency	TX 2422MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2387.700	28.20	5.72	39.93	61.97	55.96	74.00	18.04	Peak
2389.950	28.20	5.72	39.93	60.65	54.64	74.00	19.36	Peak
@ 2417.400	28.26	5.76	39.93	105.74	99.83	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2387.700	28.20	5.72	39.93	49.76	43.75	54.00	10.25	Average
2389.950	28.20	5.72	39.93	49.84	43.83	54.00	10.17	Average
@ 2418.450	28.29	5.77	39.93	96.05	90.18	---	---	Average

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

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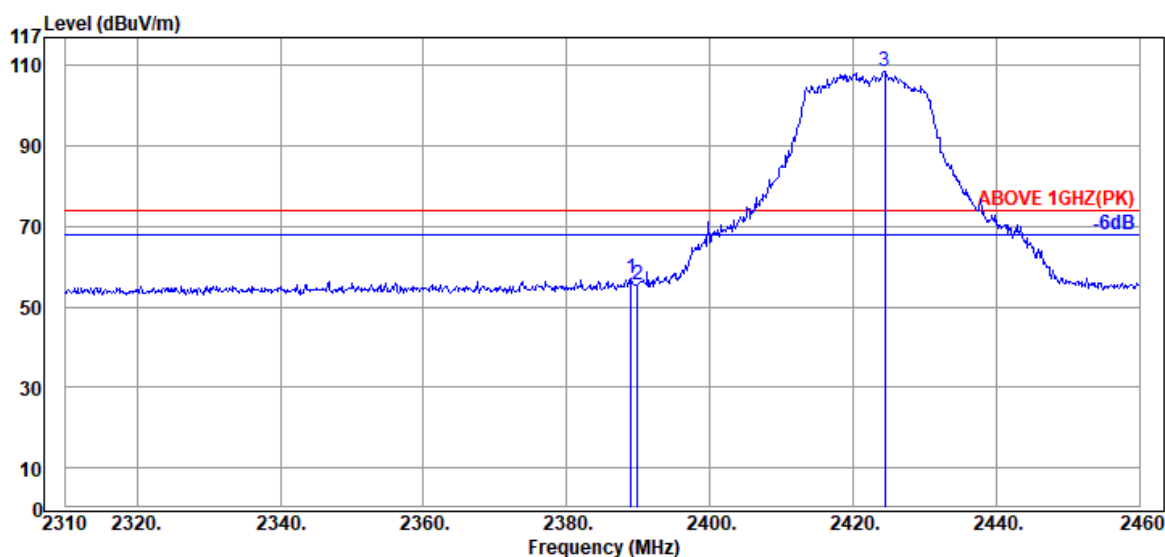
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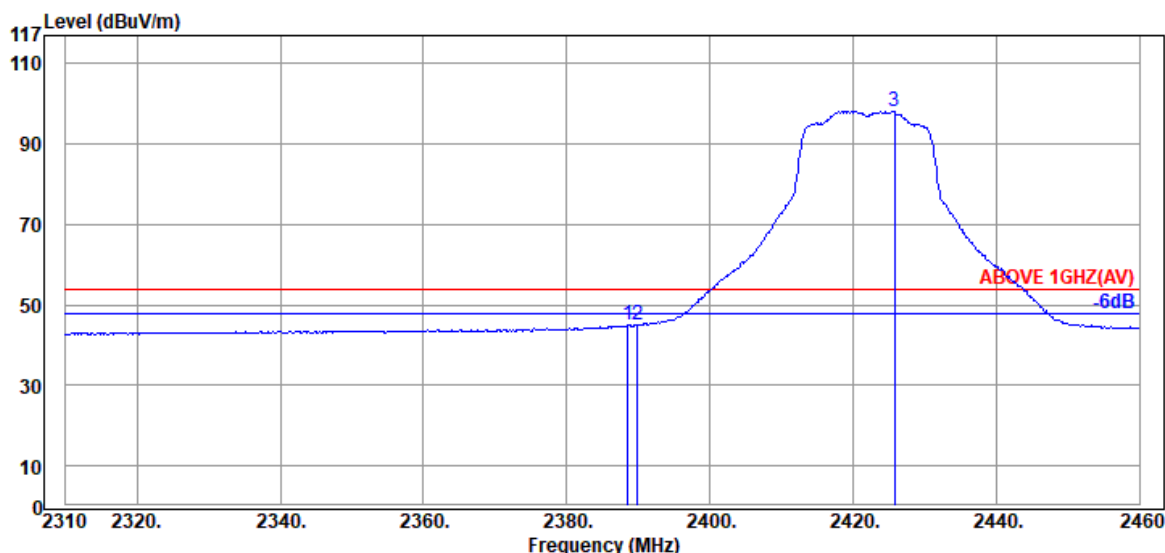
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Mode	802.11n-HT20	Frequency	TX 2422MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.050	28.20	5.72	39.93	62.96	56.95	74.00	17.05	Peak
2389.950	28.20	5.72	39.93	61.69	55.68	74.00	18.32	Peak
@ 2424.450	28.29	5.77	39.93	114.42	108.55	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2388.600	28.20	5.72	39.93	51.03	45.02	54.00	8.98	Average
2389.950	28.20	5.72	39.93	50.89	44.88	54.00	9.12	Average
@ 2425.800	28.31	5.78	39.93	103.92	98.08	---	---	Average

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

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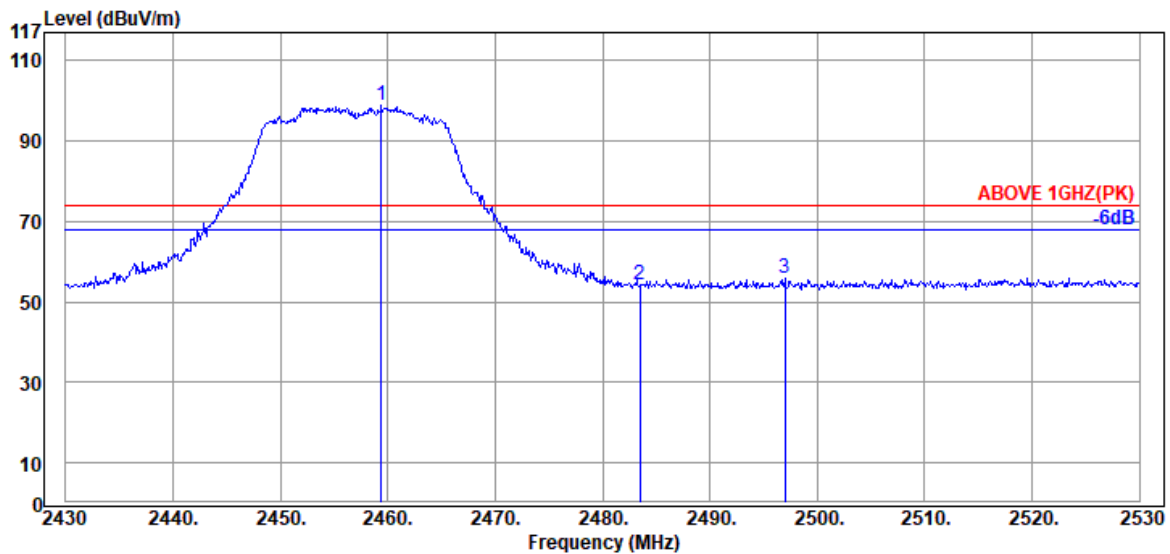
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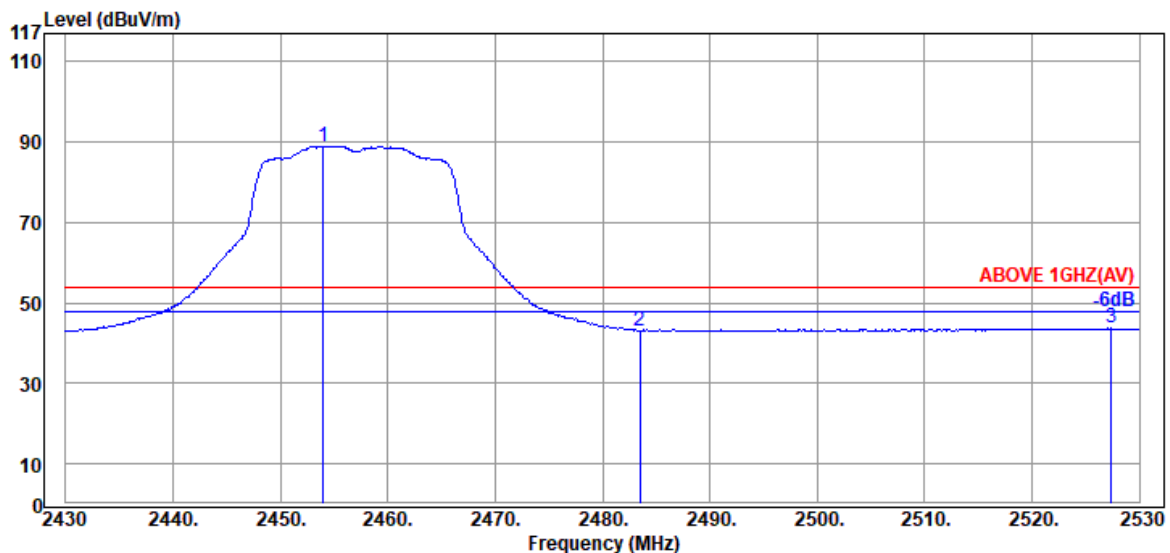
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Mode	802.11n-HT20	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2459.400	28.41	5.83	39.92	104.66	98.98	---	---	Peak
2483.500	28.47	5.87	39.92	59.66	54.08	74.00	19.92	Peak
2497.000	28.50	5.89	39.92	61.45	55.92	74.00	18.08	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2454.000	28.41	5.83	39.92	94.73	89.05	---	---	Average
2483.500	28.47	5.87	39.92	48.71	43.13	54.00	10.87	Average
2527.400	28.61	5.96	39.93	49.04	43.68	54.00	10.32	Average

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

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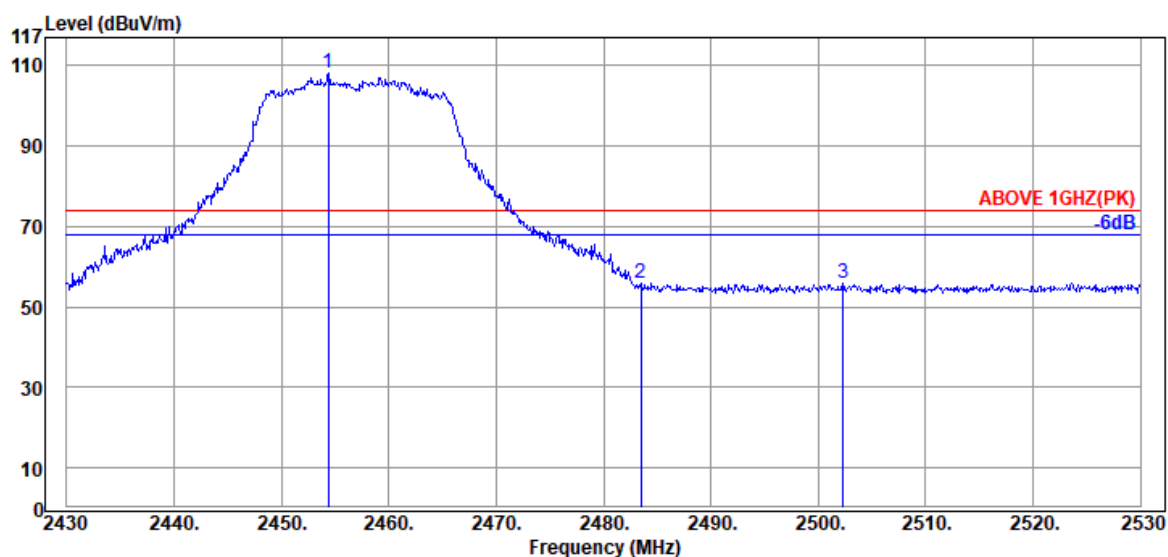
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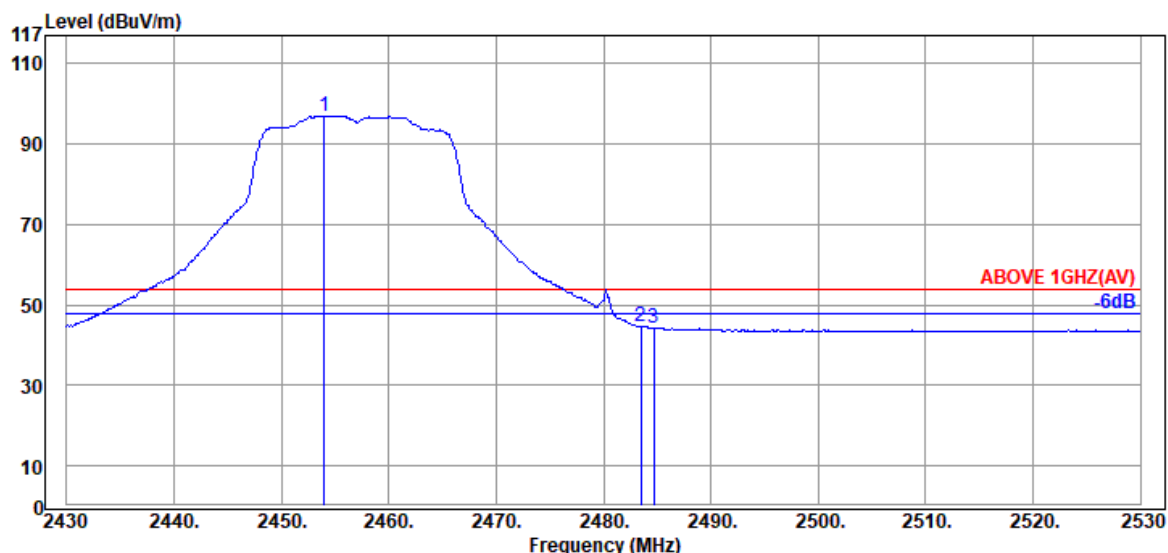
Fax: +886 2 26099303

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)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2454.400	28.41	5.83	39.92	113.72	108.04	---	---	Peak
2483.500	28.47	5.87	39.92	61.62	56.04	74.00	17.96	Peak
2502.300	28.50	5.89	39.92	61.48	55.95	74.00	18.05	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2454.000	28.41	5.83	39.92	102.76	97.08	---	---	Average
2483.500	28.47	5.87	39.92	50.08	44.50	54.00	9.50	Average
2484.700	28.47	5.87	39.92	49.90	44.32	54.00	9.68	Average

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

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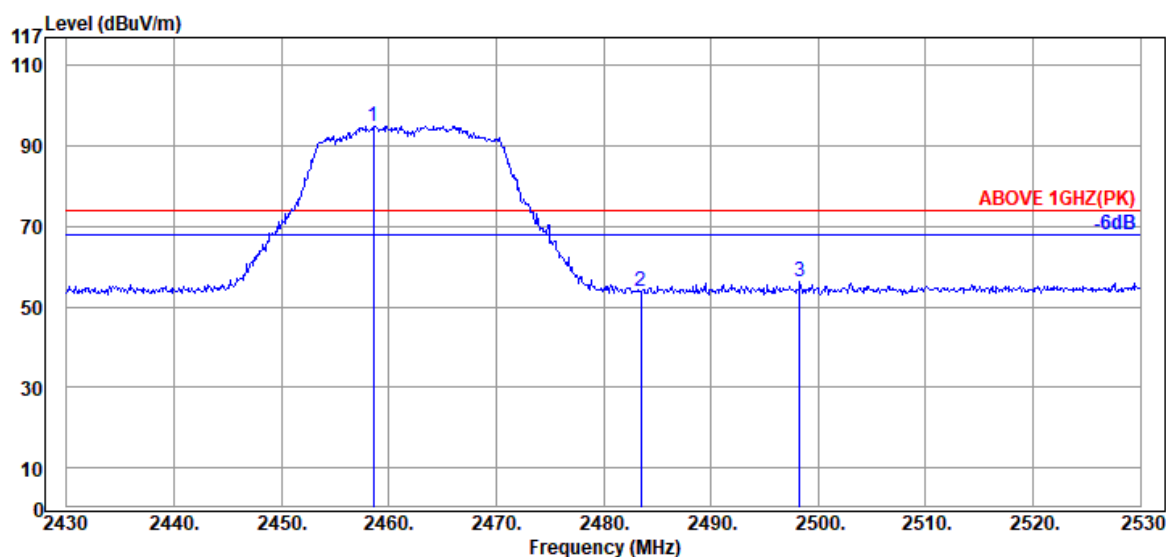
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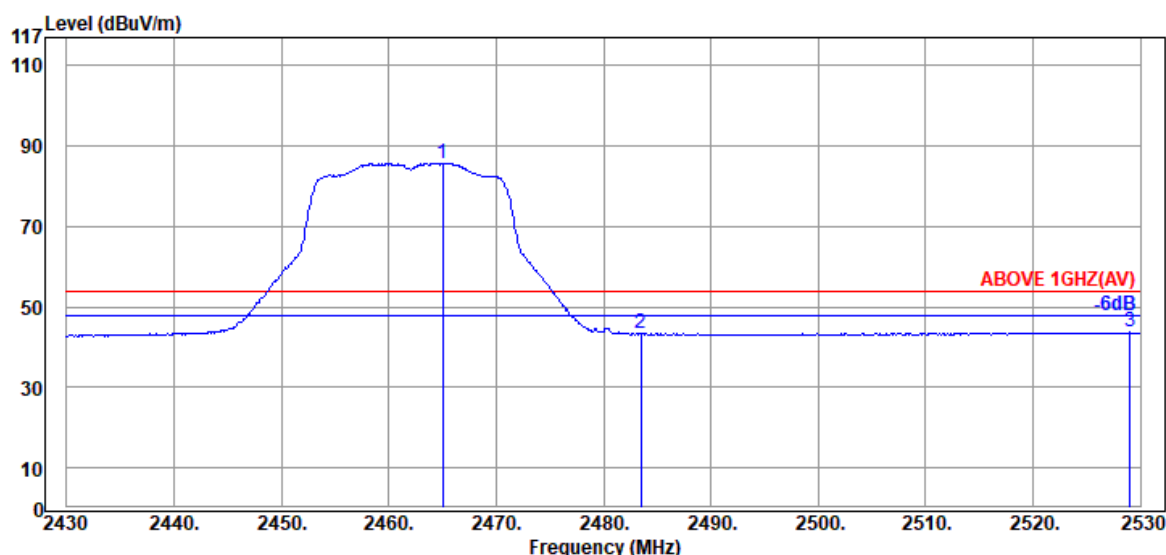
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Mode	802.11n-HT20	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2458.600	28.41	5.83	39.92	100.65	94.97	---	---	Peak
2483.500	28.47	5.87	39.92	59.51	53.93	74.00	20.07	Peak
2498.300	28.50	5.89	39.92	61.68	56.15	74.00	17.85	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2465.000	28.43	5.84	39.92	91.41	85.76	---	---	Average
2483.500	28.47	5.87	39.92	48.82	43.24	54.00	10.76	Average
2529.000	28.61	5.96	39.93	49.03	43.67	54.00	10.33	Average

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

File Number: CIM2207002

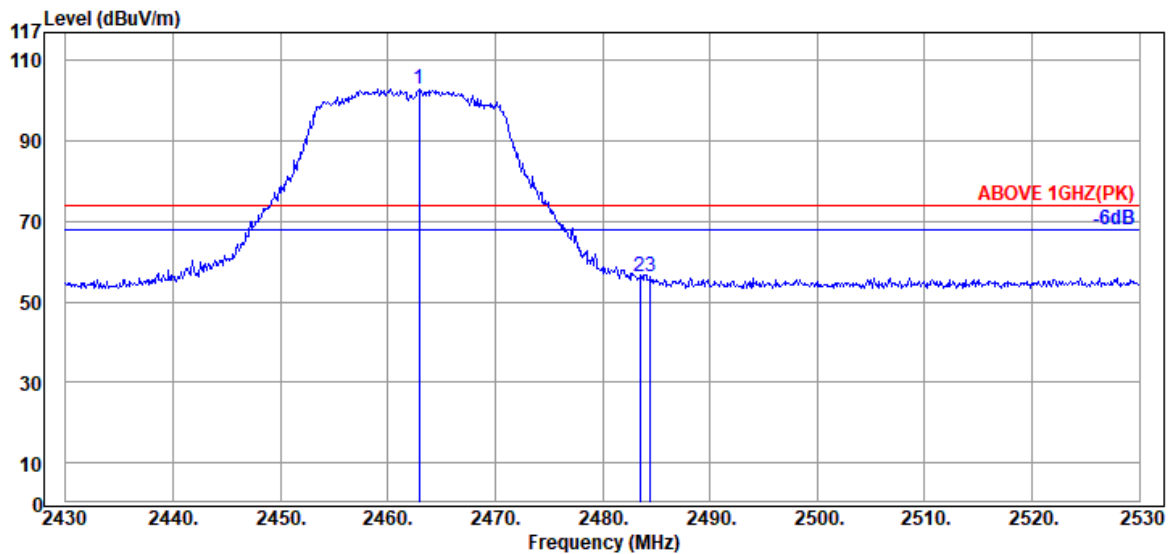
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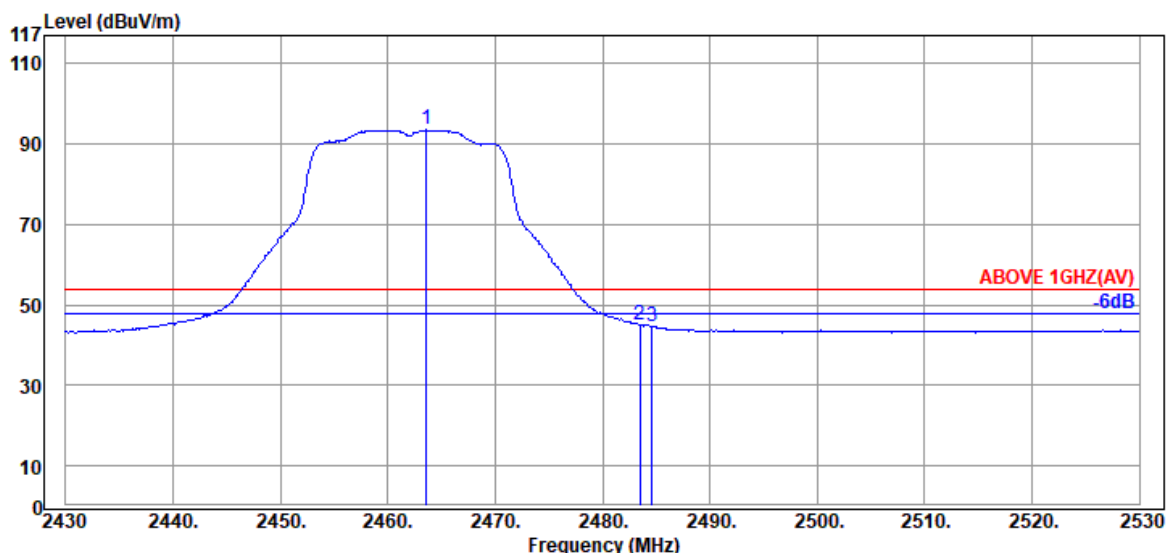
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Mode	802.11n-HT20	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2462.900	28.43	5.84	39.92	108.50	102.85	---	---	Peak
2483.500	28.47	5.87	39.92	61.92	56.34	74.00	17.66	Peak
2484.500	28.47	5.87	39.92	61.83	56.25	74.00	17.75	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2463.600	28.43	5.84	39.92	99.21	93.56	---	---	Average
2483.500	28.47	5.87	39.92	50.70	45.12	54.00	8.88	Average
2484.600	28.47	5.87	39.92	50.22	44.64	54.00	9.36	Average

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

File Number: CIM2207002

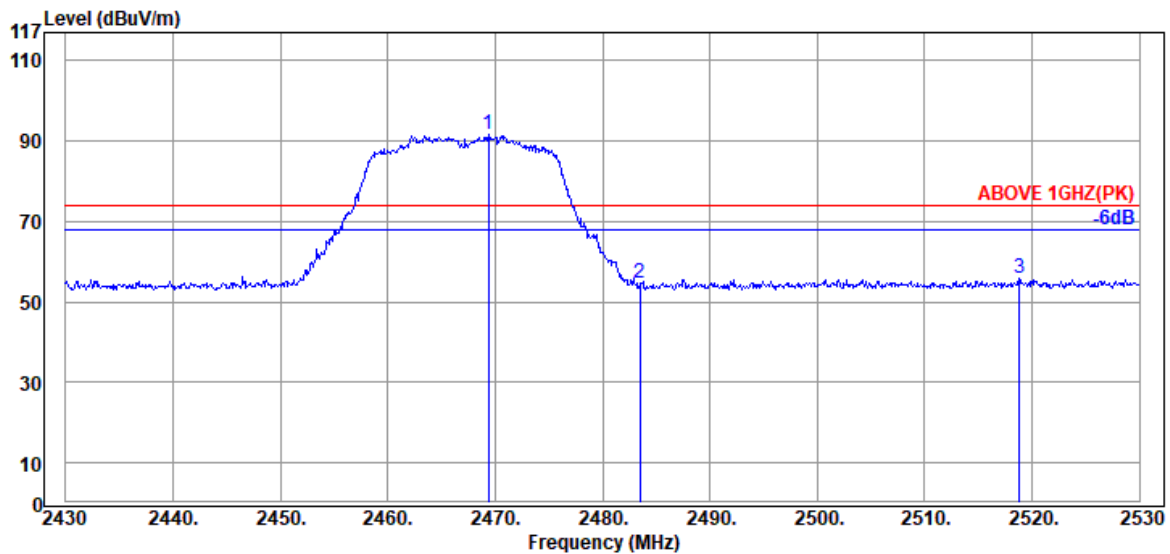
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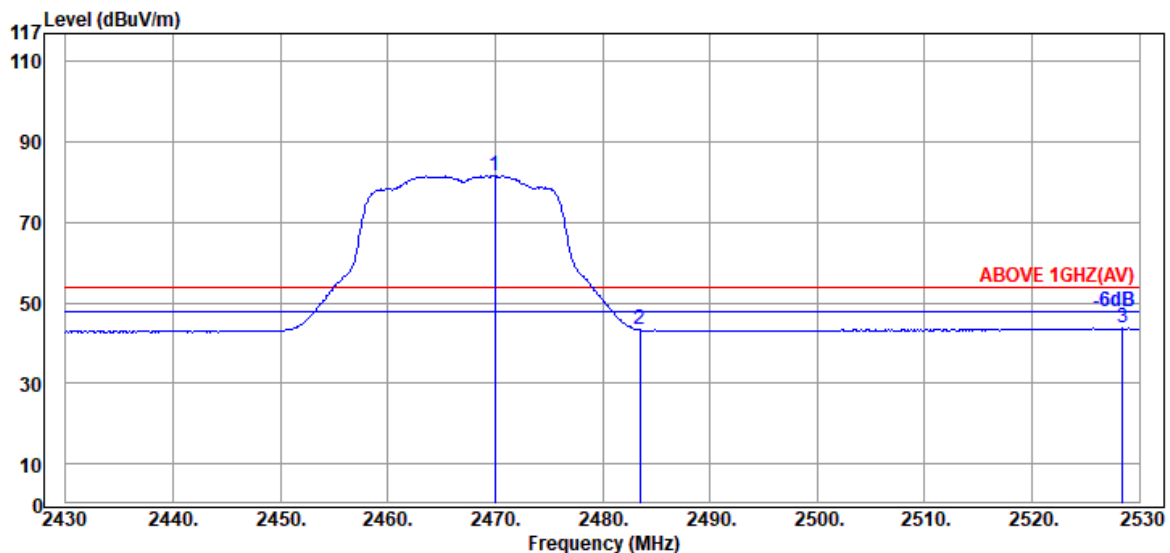
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Mode	802.11n-HT20	Frequency	TX 2467MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2469.400	28.44	5.85	39.92	97.41	91.78	---	---	Peak
2483.500	28.47	5.87	39.92	60.12	54.54	74.00	19.46	Peak
2518.800	28.59	5.94	39.93	61.09	55.69	74.00	18.31	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2470.000	28.44	5.85	39.92	87.29	81.66	---	---	Average
2483.500	28.47	5.87	39.92	48.94	43.36	54.00	10.64	Average
2528.400	28.61	5.96	39.93	49.07	43.71	54.00	10.29	Average

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

File Number: C1M2207002

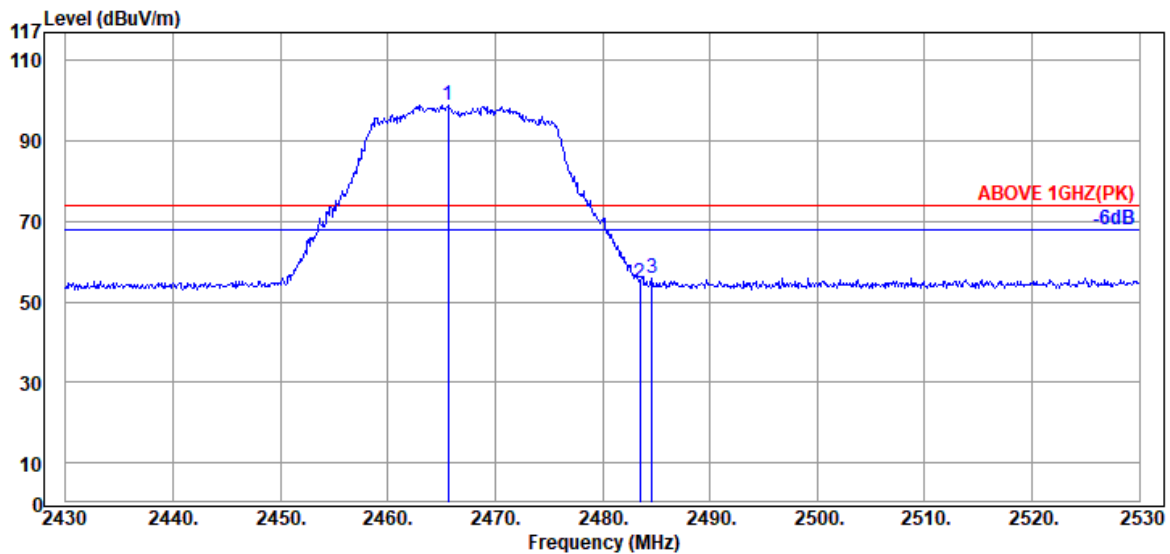
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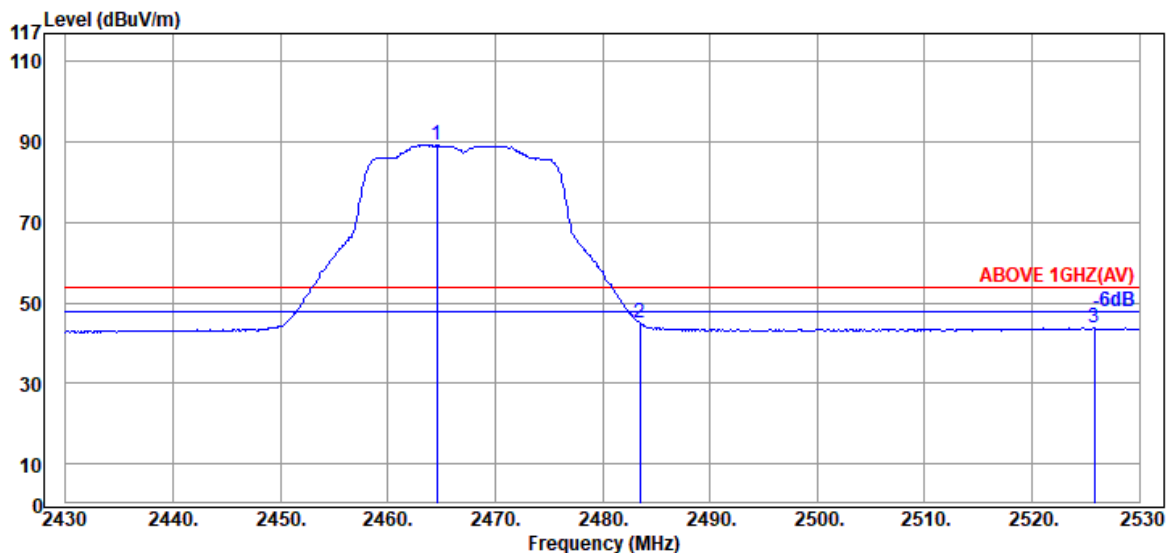
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Mode	802.11n-HT20	Frequency	TX 2467MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2465.600	28.43	5.84	39.92	104.44	98.79	---	---	Peak
2483.500	28.47	5.87	39.92	60.43	54.85	74.00	19.15	Peak
2484.600	28.47	5.87	39.92	61.55	55.97	74.00	18.03	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2464.600	28.43	5.84	39.92	94.95	89.30	---	---	Average
2483.500	28.47	5.87	39.92	50.64	45.06	54.00	8.94	Average
2525.800	28.61	5.96	39.93	49.25	43.89	54.00	10.11	Average

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

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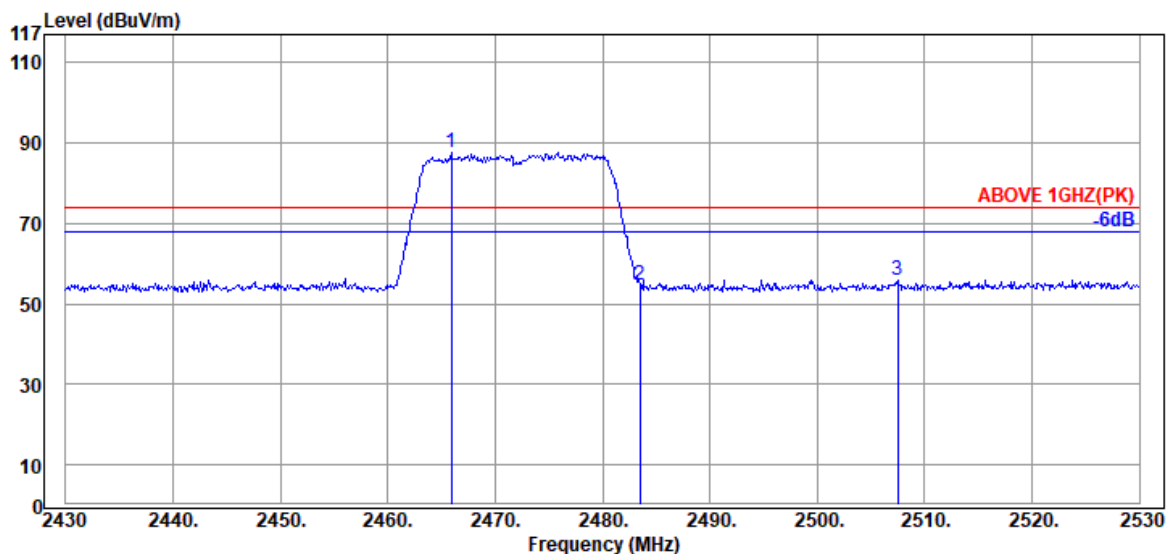
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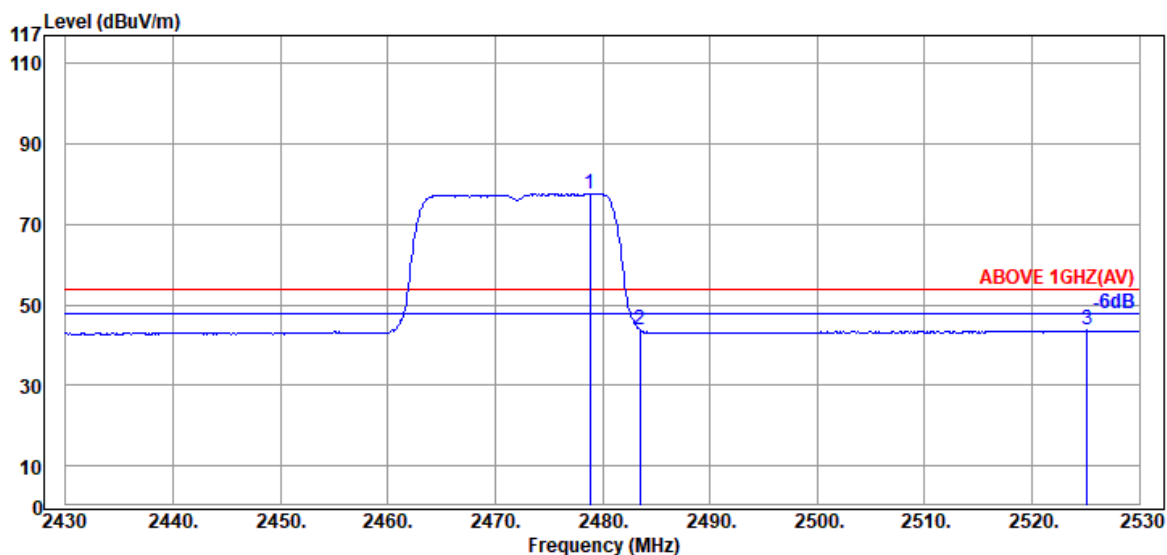
Fax: +886 2 26099303

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2465.900	28.43	5.84	39.92	93.34	87.69	---	---	Peak
2483.500	28.47	5.87	39.92	60.27	54.69	74.00	19.31	Peak
2507.500	28.53	5.91	39.92	61.32	55.84	74.00	18.16	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2478.800	28.46	5.86	39.92	83.34	77.74	---	---	Average
2483.500	28.47	5.87	39.92	49.21	43.63	54.00	10.37	Average
2525.100	28.59	5.94	39.93	49.12	43.72	54.00	10.28	Average

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

File Number: CIM2207002

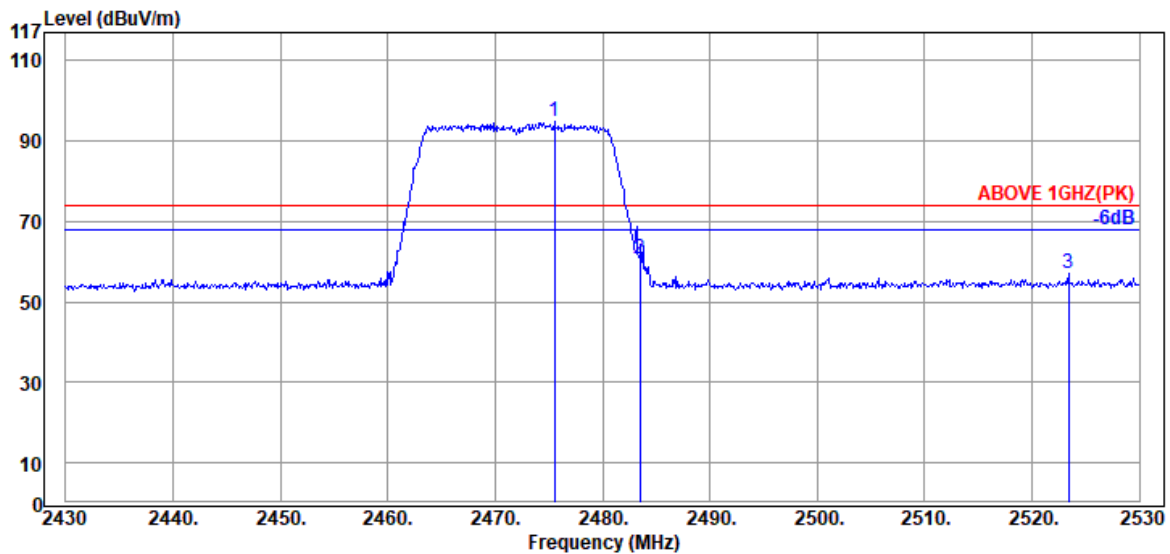
Report Number: EM-F220521

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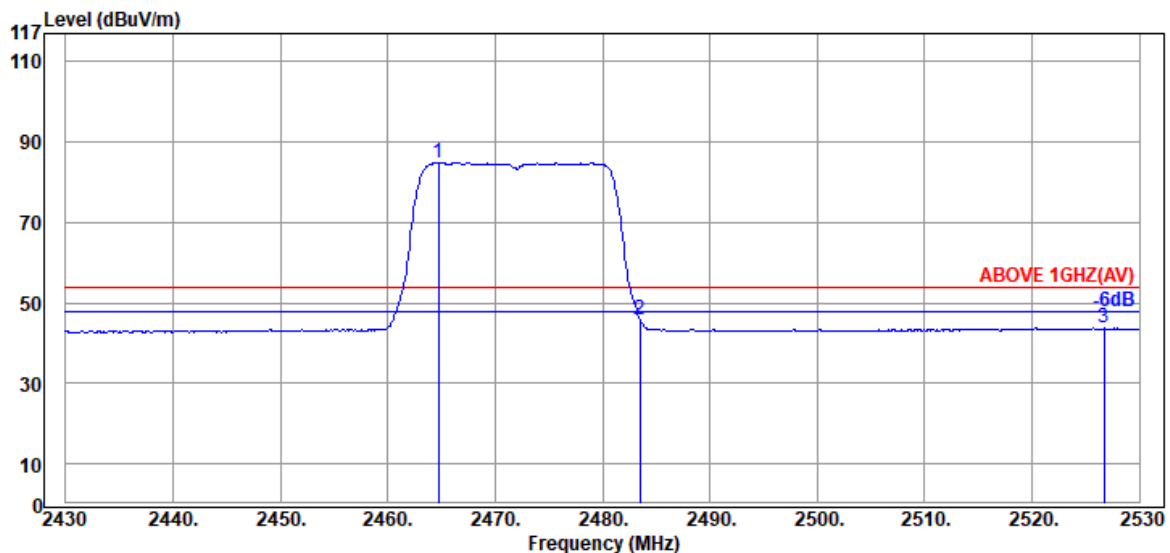
Tel: +886 2 26099301
Fax: +886 2 26099303

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2475.500	28.46	5.86	39.92	100.40	94.80	---	---	Peak
2483.500	28.47	5.87	39.92	66.40	60.82	74.00	13.18	Peak
2523.400	28.59	5.94	39.93	62.35	56.95	74.00	17.05	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2464.700	28.43	5.84	39.92	90.63	84.98	---	---	Average
2483.500	28.47	5.87	39.92	51.40	45.82	54.00	8.18	Average
2526.700	28.61	5.96	39.93	49.09	43.73	54.00	10.27	Average

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

File Number: C1M2207002

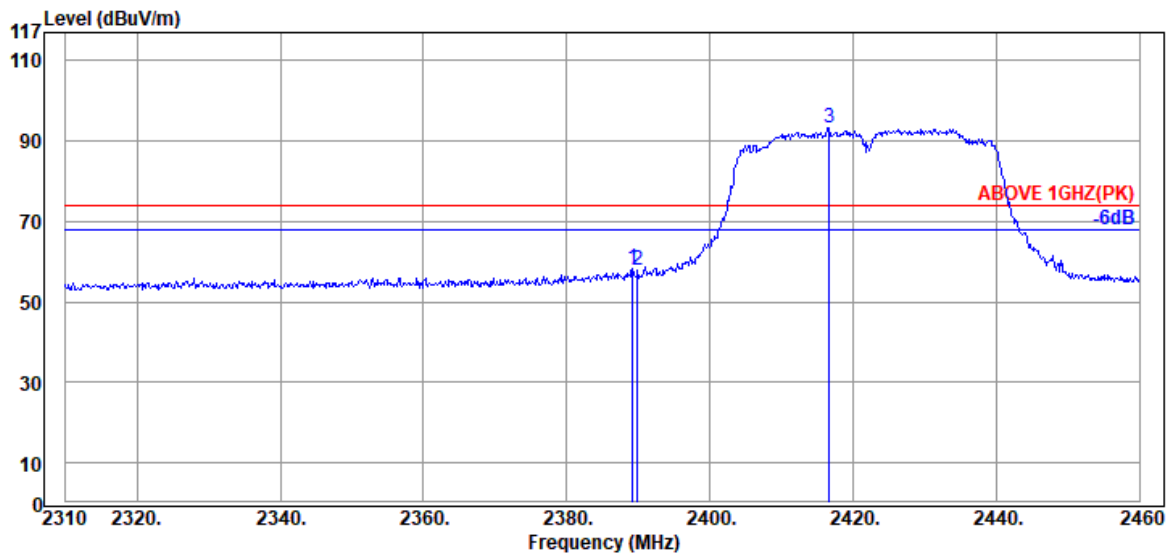
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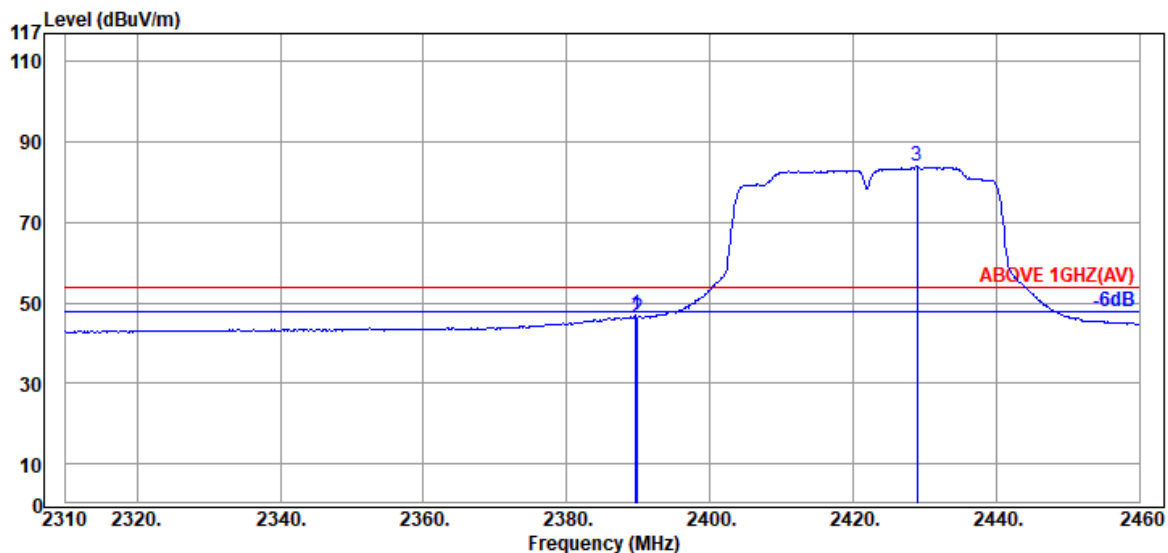
Tel: +886 2 26099301
Fax: +886 2 26099303

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Liits (dBUV/m)	Margin (dB)	Detector
2389.200	28.20	5.72	39.93	64.13	58.12	74.00	15.88	Peak
2389.950	28.20	5.72	39.93	64.10	58.09	74.00	15.91	Peak
@ 2416.650	28.26	5.76	39.93	99.13	93.22	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.650	28.20	5.72	39.93	52.86	46.85	54.00	7.15	Average
2389.950	28.20	5.72	39.93	52.33	46.32	54.00	7.68	Average
@ 2428.950	28.31	5.78	39.93	89.83	83.99	---	---	Average

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

File Number: C1M2207002

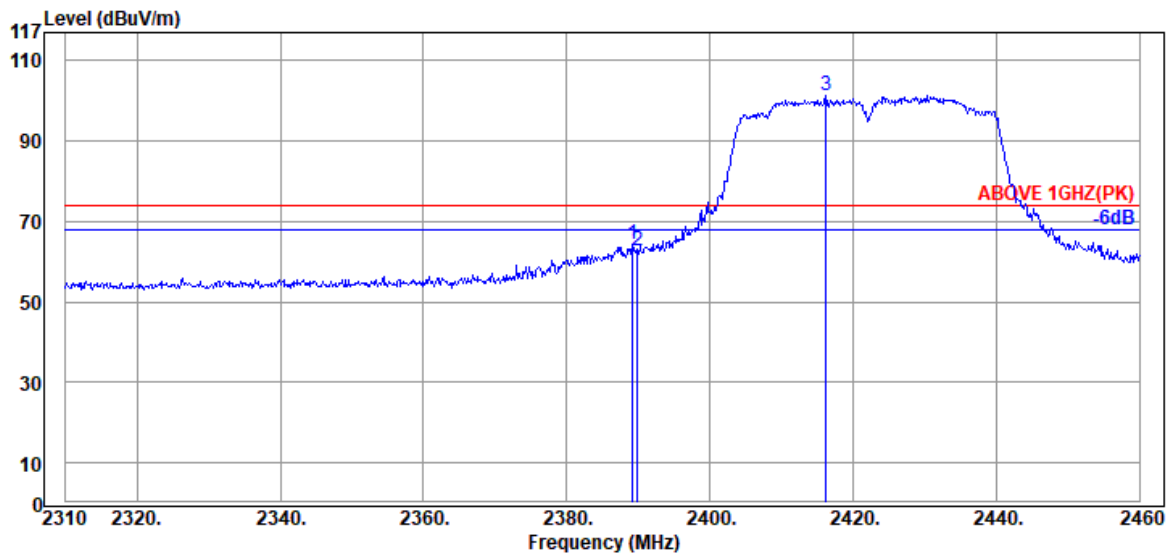
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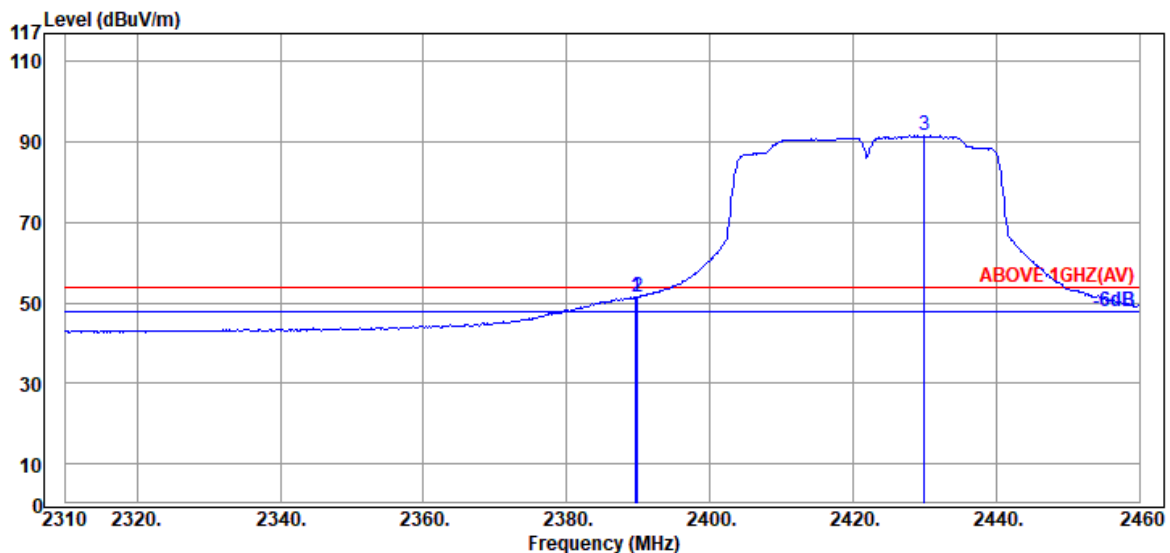
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Fax: +886 2 26099303

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.200	28.20	5.72	39.93	70.16	64.15	74.00	9.85	Peak
2389.950	28.20	5.72	39.93	68.85	62.84	74.00	11.16	Peak
@ 2416.200	28.26	5.76	39.93	107.15	101.24	---	---	Peak



Antenna at Vertical Polarization

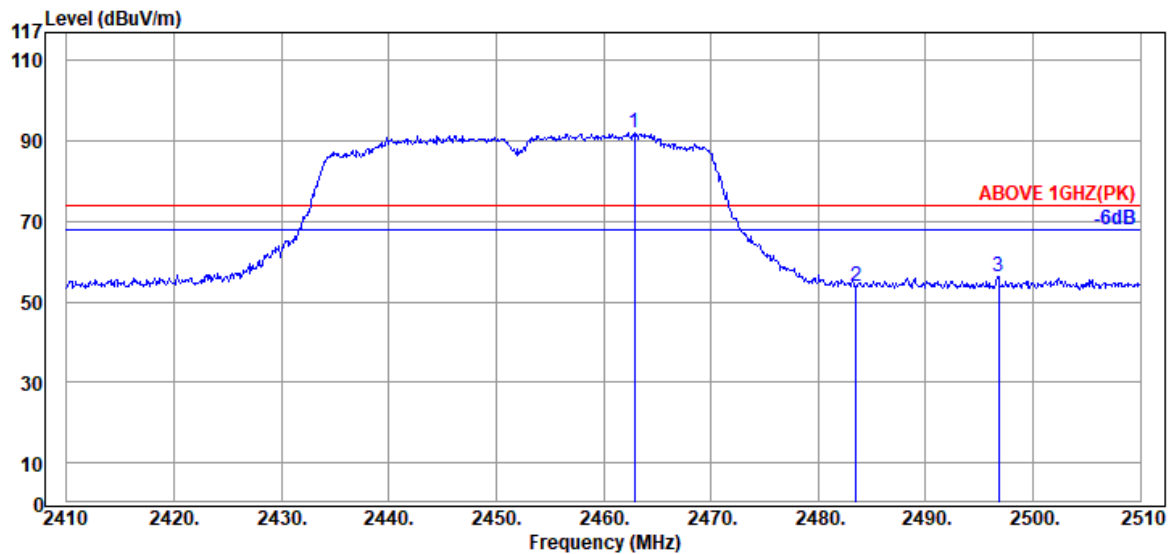
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2389.650	28.20	5.72	39.93	57.35	51.34	54.00	2.66	Average
2389.950	28.20	5.72	39.93	57.51	51.50	54.00	2.50	Average
@ 2430.000	28.31	5.78	39.93	97.50	91.66	---	---	Average

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

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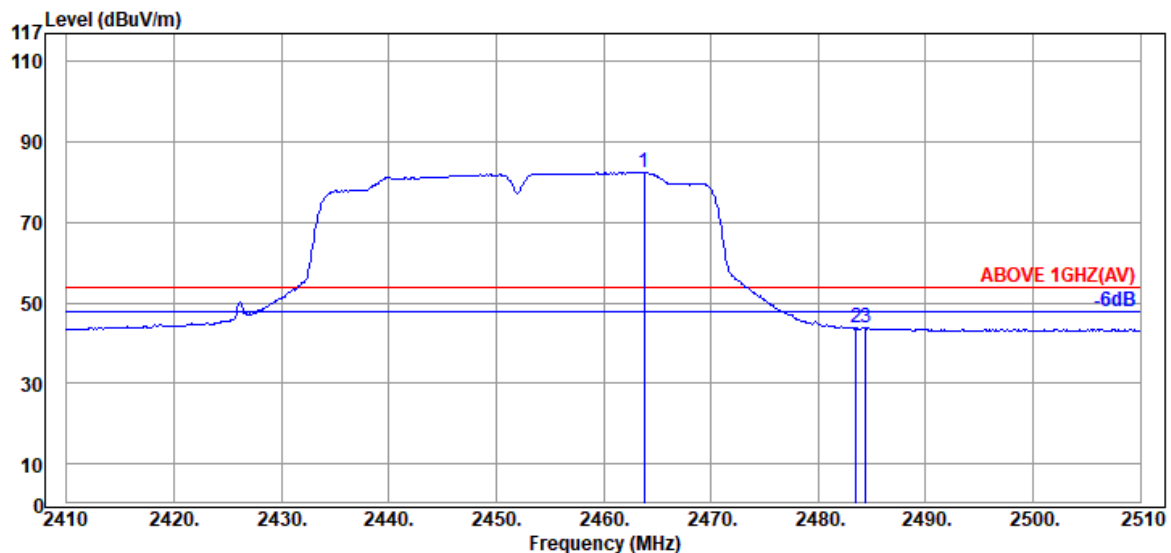
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Fax: +886 2 26099303

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2462.900	28.43	5.84	39.92	97.64	91.99	---	---	Peak
2483.500	28.47	5.87	39.92	59.62	54.04	74.00	19.96	Peak
2496.800	28.50	5.89	39.92	61.92	56.39	74.00	17.61	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2463.800	28.43	5.84	39.92	88.24	82.59	---	---	Average
2483.500	28.47	5.87	39.92	49.27	43.69	54.00	10.31	Average
2484.400	28.47	5.87	39.92	49.28	43.70	54.00	10.30	Average

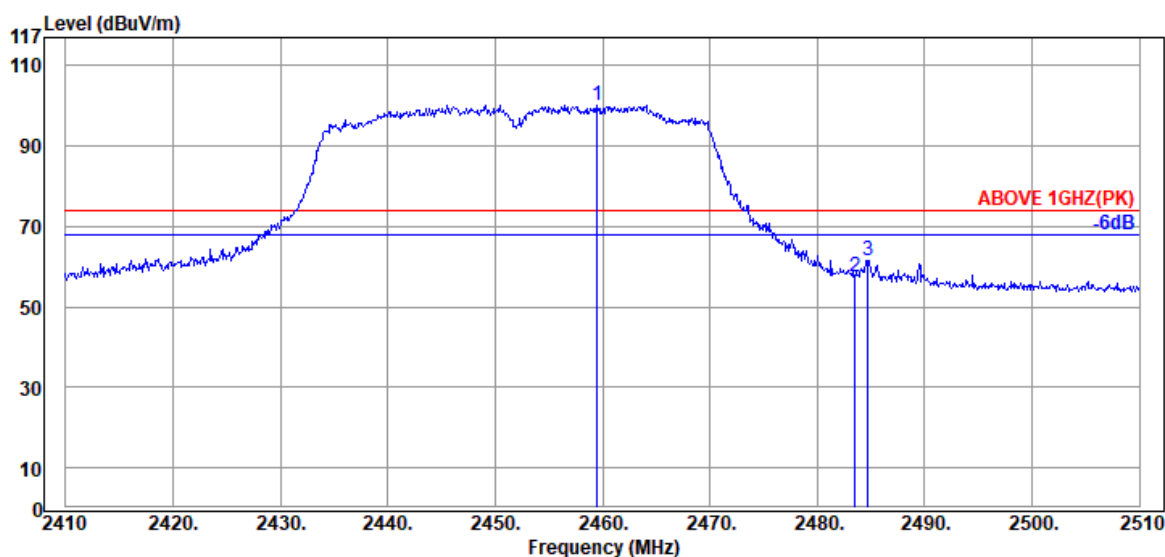
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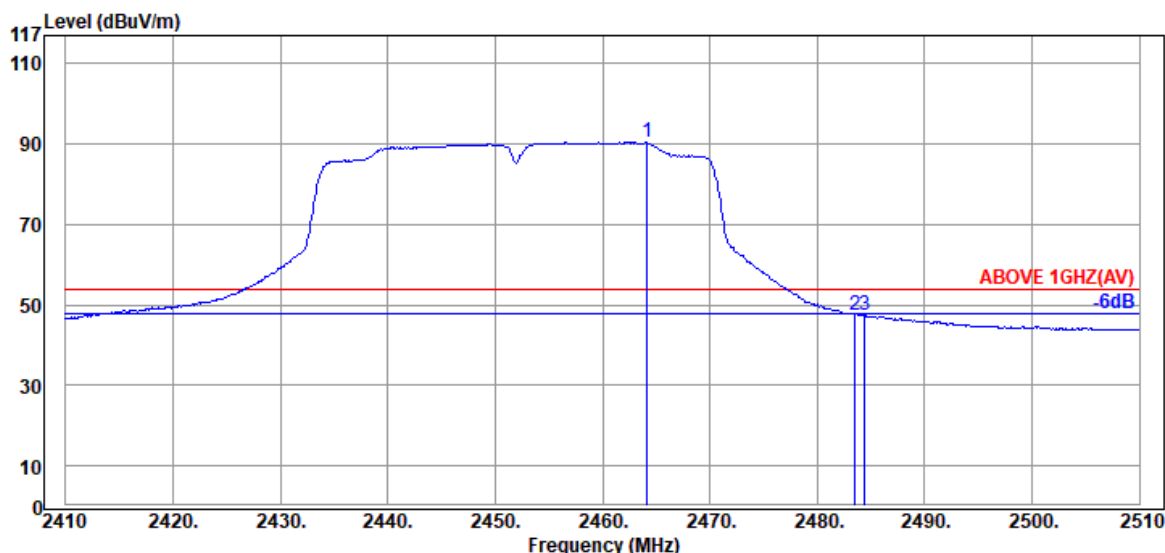
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Mode	802.11n-HT40	Frequency	TX 2452MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2459.500	28.41	5.83	39.92	105.85	100.17	---	---	Peak
2483.500	28.47	5.87	39.92	62.95	57.37	74.00	16.63	Peak
2484.700	28.47	5.87	39.92	67.21	61.63	74.00	12.37	Peak

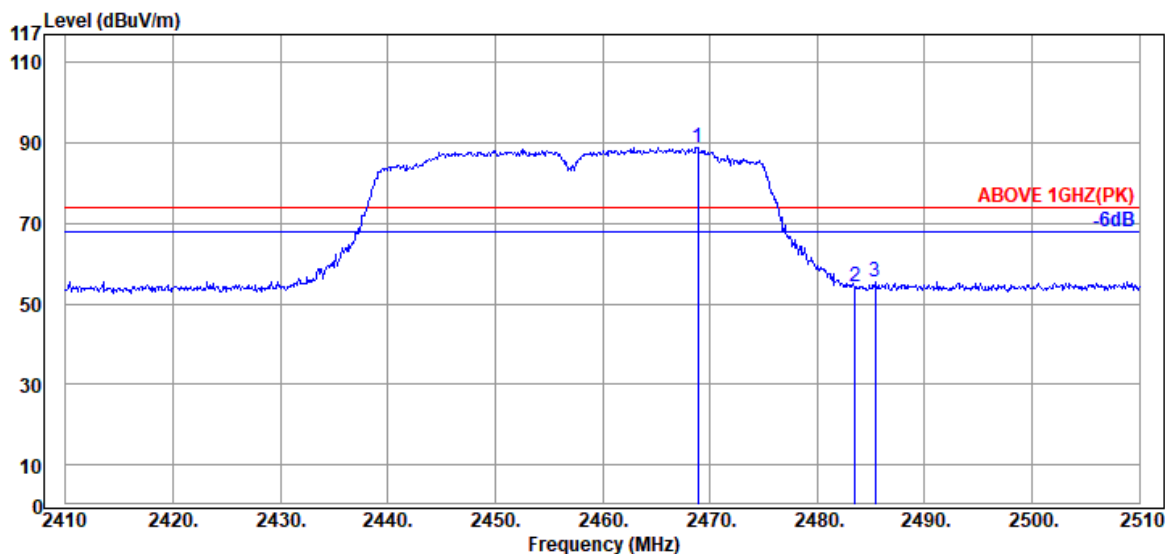


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2464.200	28.43	5.84	39.92	96.15	90.50	---	---	Average
2483.500	28.47	5.87	39.92	53.22	47.64	54.00	6.36	Average
2484.400	28.47	5.87	39.92	53.04	47.46	54.00	6.54	Average

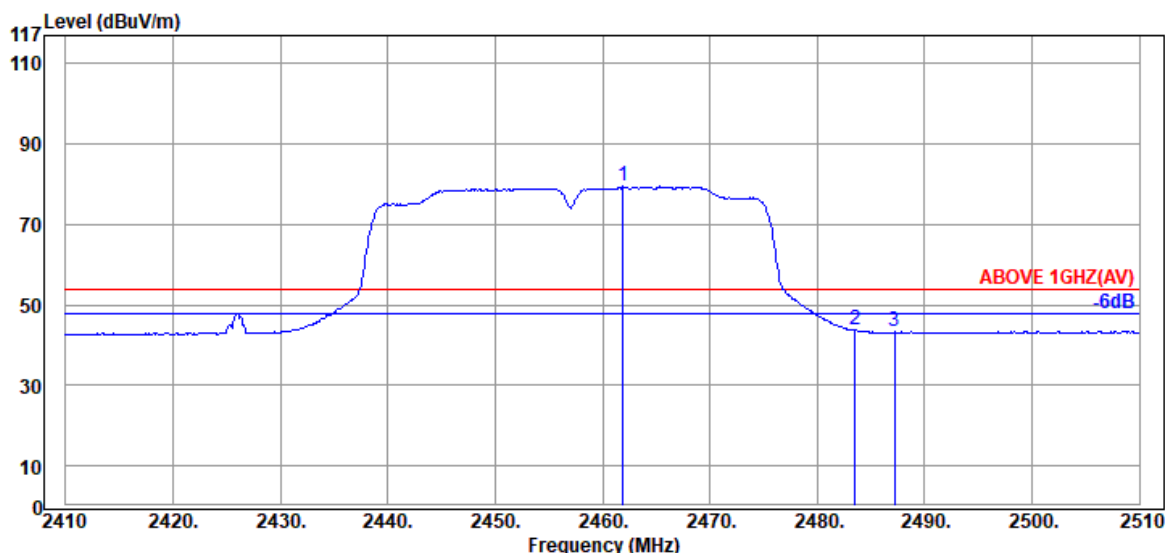
Remark: The “@” means fundamental frequency, it is ignored in this section.

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2468.900	28.44	5.85	39.92	94.61	88.98	---	---	Peak
2483.500	28.47	5.87	39.92	59.70	54.12	74.00	19.88	Peak
2485.400	28.47	5.87	39.92	61.03	55.45	74.00	18.55	Peak

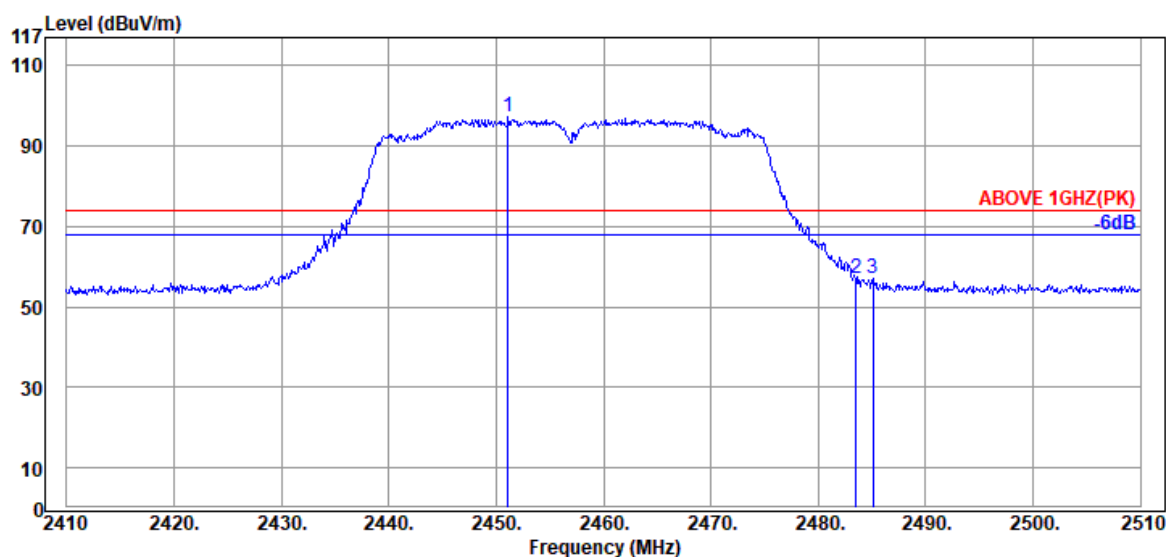


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2461.900	28.43	5.84	39.92	85.10	79.45	---	---	Average
2483.500	28.47	5.87	39.92	49.21	43.63	54.00	10.37	Average
2487.200	28.47	5.87	39.92	49.00	43.42	54.00	10.58	Average

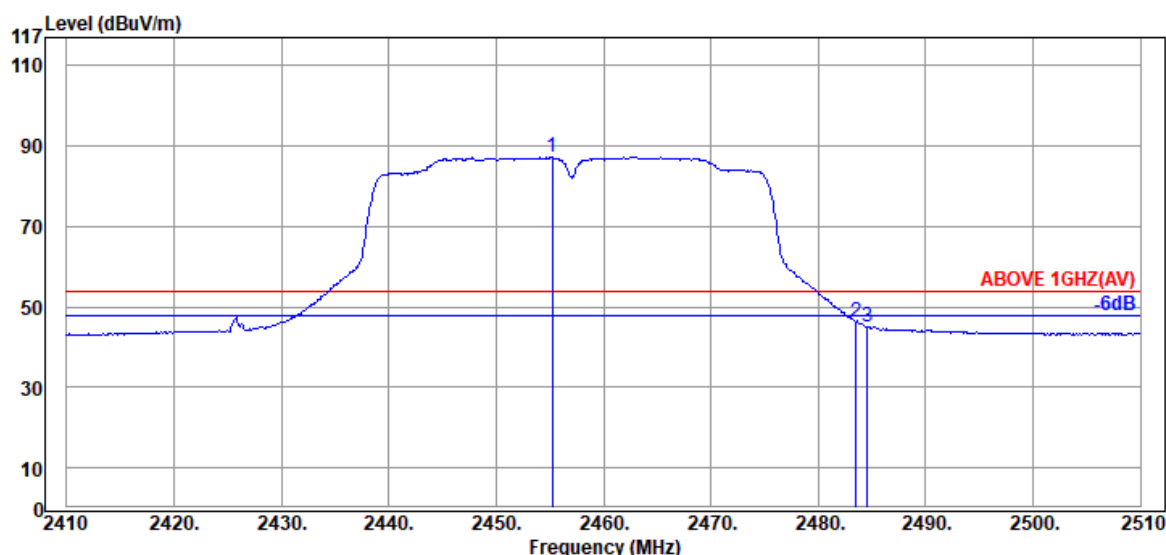
Remark: The “@” means fundamental frequency, it is ignored in this section.

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2451.100	28.40	5.81	39.92	102.84	97.13	---	---	Peak
2483.500	28.47	5.87	39.92	62.66	57.08	74.00	16.92	Peak
2485.100	28.47	5.87	39.92	62.48	56.90	74.00	17.10	Peak

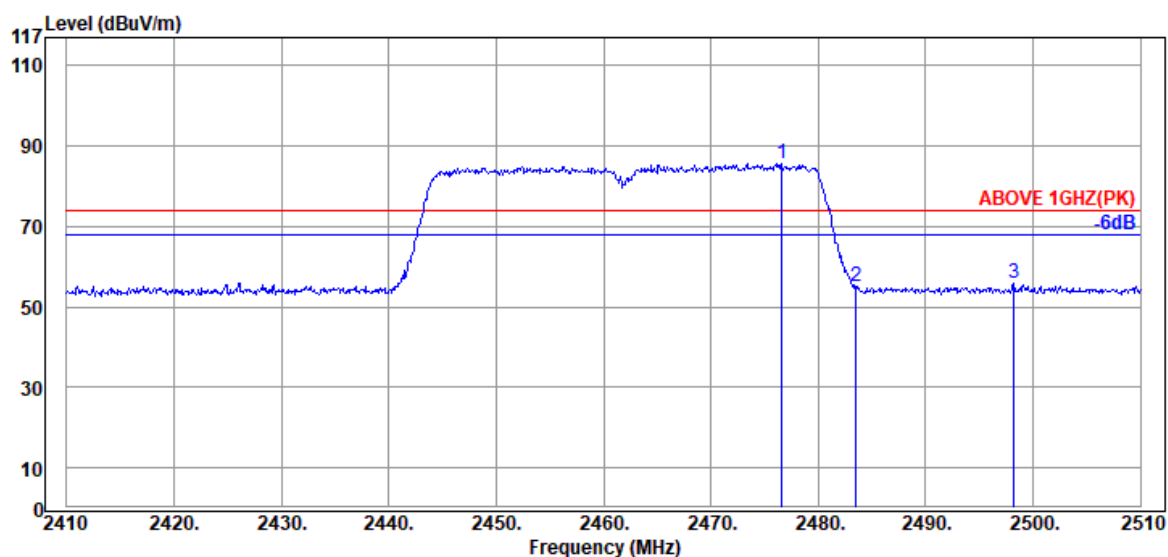


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2455.200	28.41	5.83	39.92	93.02	87.34	---	---	Average
2483.500	28.47	5.87	39.92	51.97	46.39	54.00	7.61	Average
2484.600	28.47	5.87	39.92	50.80	45.22	54.00	8.78	Average

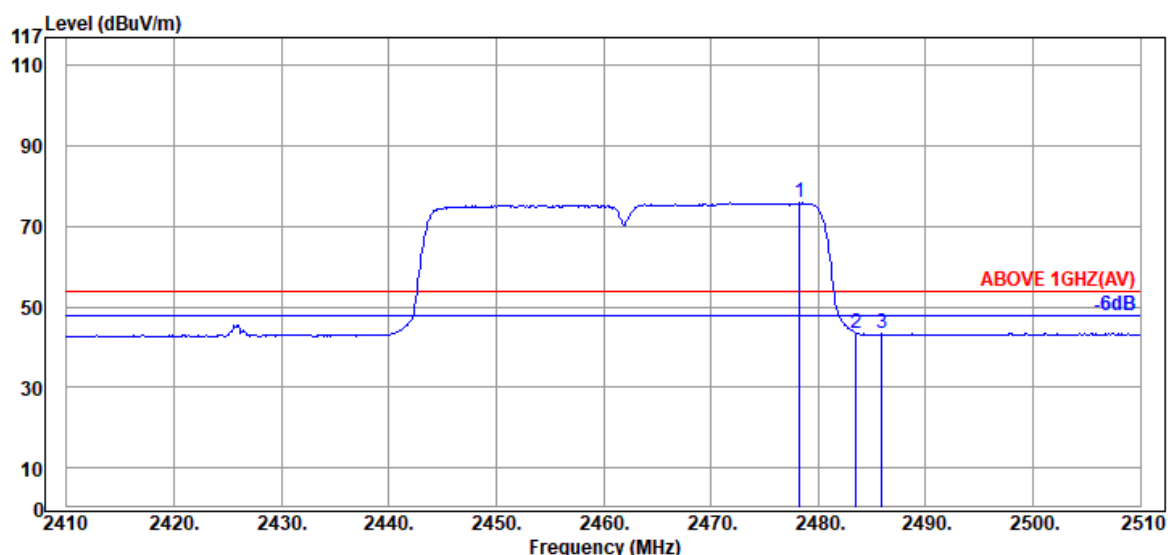
Remark: The “@” means fundamental frequency, it is ignored in this section.

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2476.600	28.46	5.86	39.92	91.44	85.84	---	---	Peak
2483.500	28.47	5.87	39.92	60.48	54.90	74.00	19.10	Peak
2498.200	28.50	5.89	39.92	61.54	56.01	74.00	17.99	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2478.300	28.46	5.86	39.92	81.48	75.88	---	---	Average
2483.500	28.47	5.87	39.92	49.07	43.49	54.00	10.51	Average
2485.900	28.47	5.87	39.92	48.97	43.39	54.00	10.61	Average

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

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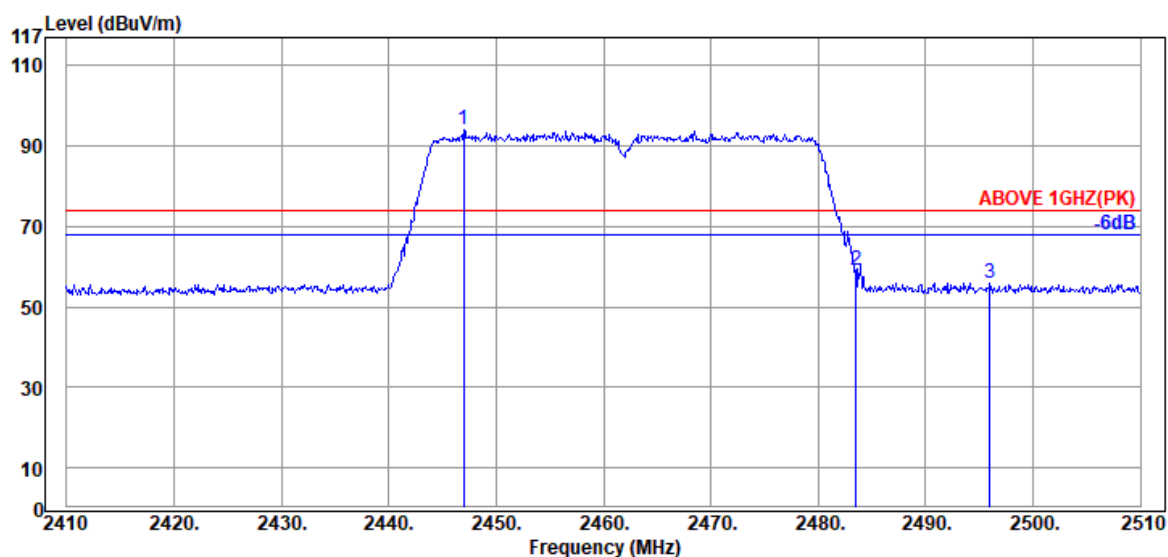
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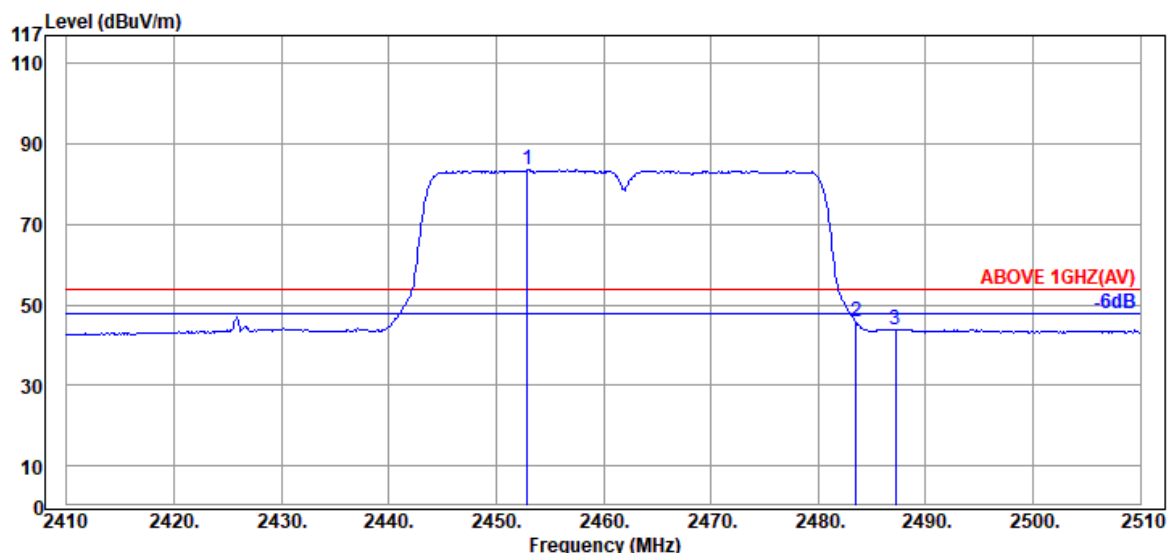
Fax: +886 2 26099303

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2447.000	28.40	5.81	39.93	99.77	94.05	---	---	Peak
2483.500	28.47	5.87	39.92	64.61	59.03	74.00	14.97	Peak
2496.000	28.49	5.88	39.92	61.57	56.02	74.00	17.98	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2452.900	28.40	5.81	39.92	89.26	83.55	---	---	Average
2483.500	28.47	5.87	39.92	51.50	45.92	54.00	8.08	Average
2487.200	28.47	5.87	39.92	49.54	43.96	54.00	10.04	Average

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

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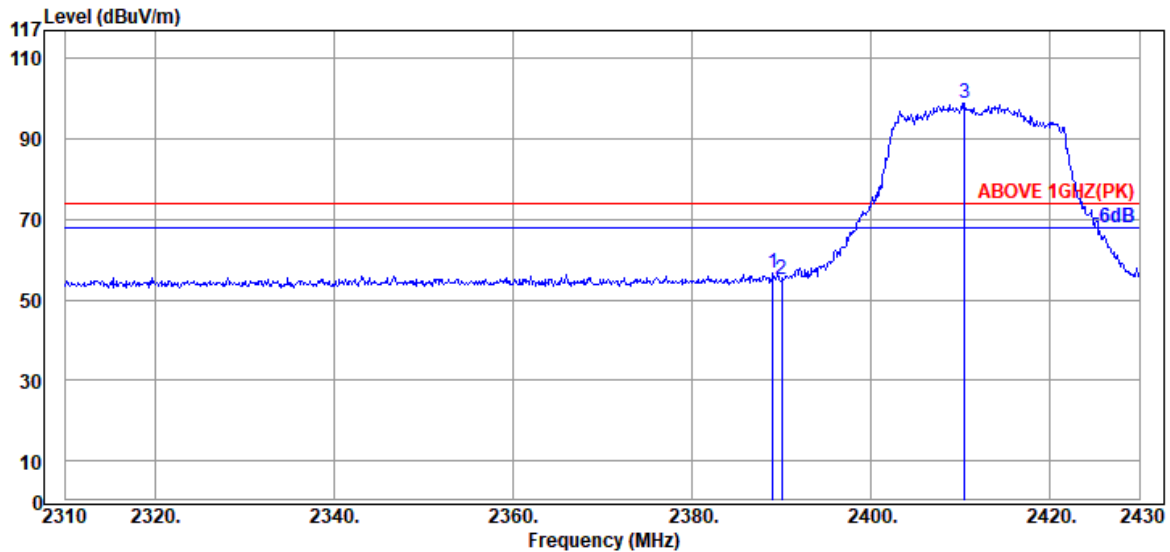
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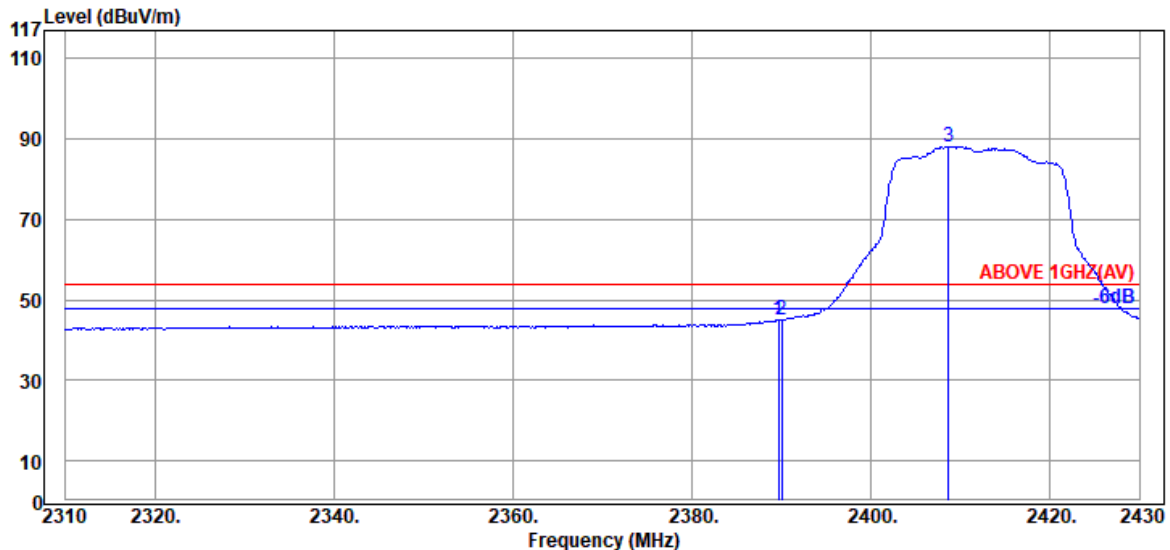
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Mode	802.11ax-HE20	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.080	28.20	5.72	39.93	62.69	56.68	74.00	17.32	Peak
2390.040	28.20	5.72	39.93	60.99	54.98	74.00	19.02	Peak
@ 2410.440	28.23	5.75	39.93	105.04	99.09	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	28.20	5.72	39.93	51.01	45.00	54.00	9.00	Average
2390.040	28.20	5.72	39.93	50.90	44.89	54.00	9.11	Average
@ 2408.640	28.23	5.75	39.93	94.10	88.15	---	---	Average

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

File Number: CIM2207002

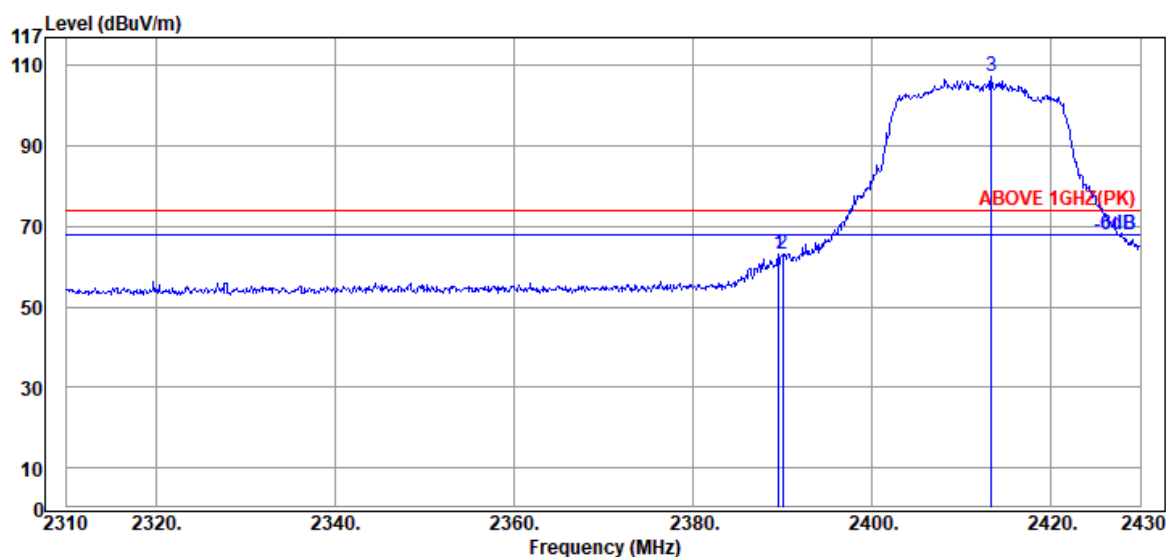
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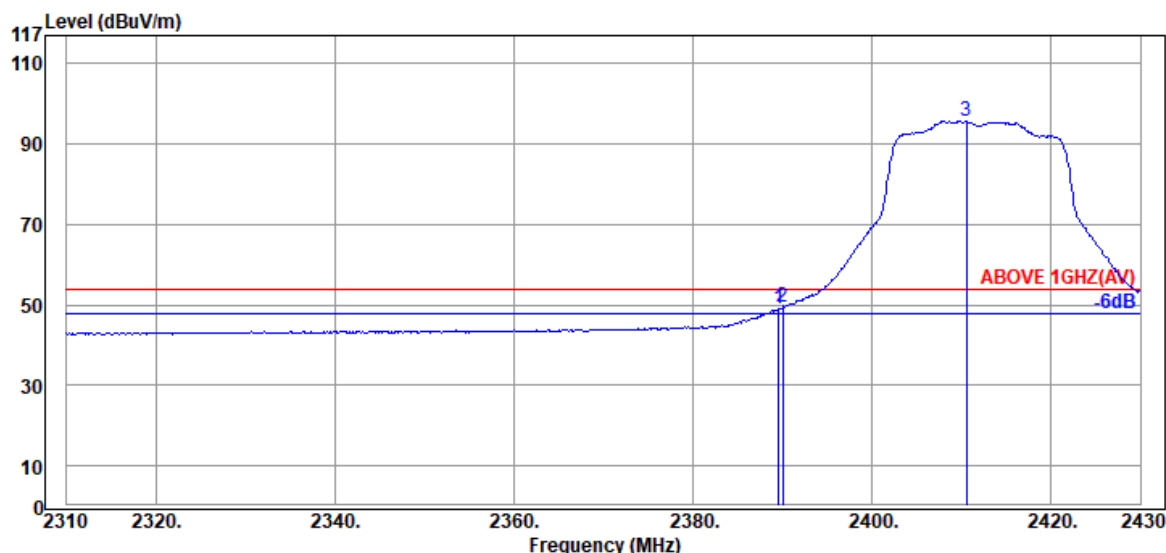
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Mode	802.11ax-HE20	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.560	28.20	5.72	39.93	69.16	63.15	74.00	10.85	Peak
2390.040	28.20	5.72	39.93	68.95	62.94	74.00	11.06	Peak
@ 2413.320	28.26	5.76	39.93	113.37	107.46	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.560	28.20	5.72	39.93	54.97	48.96	54.00	5.04	Average
2390.040	28.20	5.72	39.93	55.57	49.56	54.00	4.44	Average
@ 2410.560	28.23	5.75	39.93	101.60	95.65	---	---	Average

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

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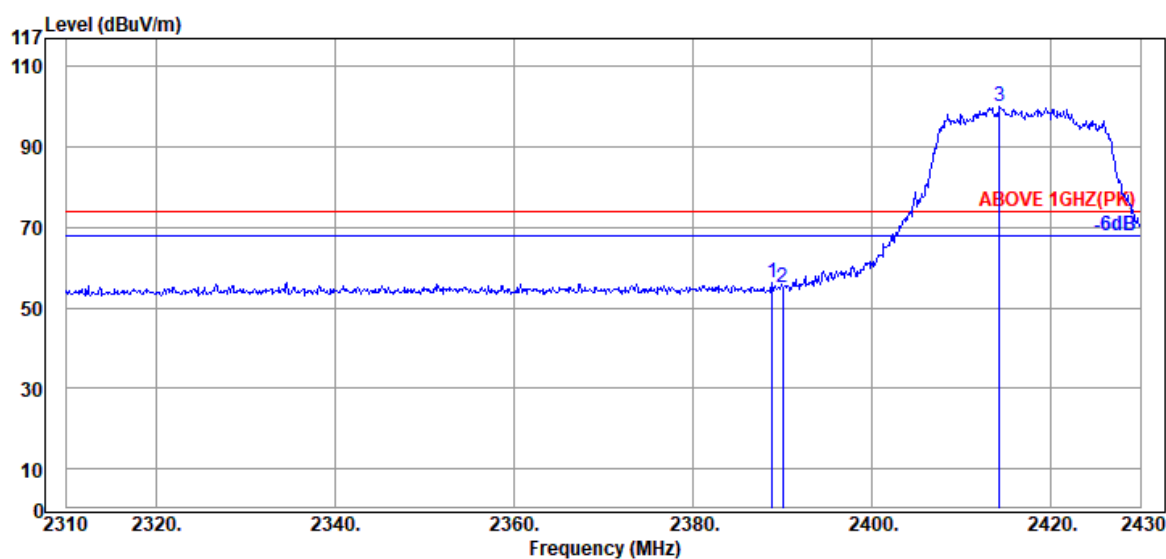
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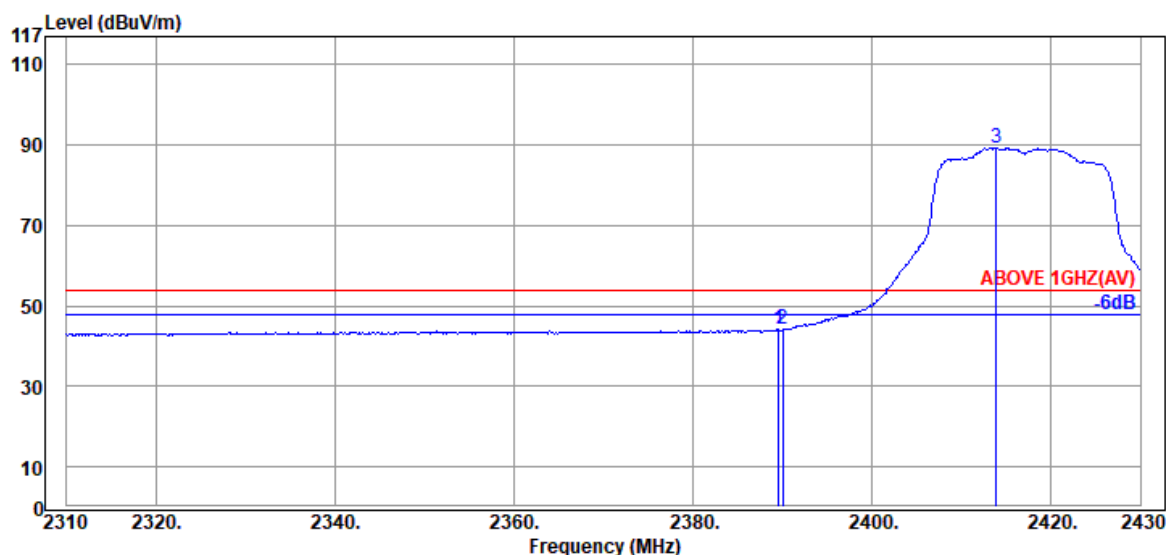
Fax: +886 2 26099303

Mode	802.11ax-HE20	Frequency	TX 2417MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.840	28.20	5.72	39.93	62.30	56.29	74.00	17.71	Peak
2390.040	28.20	5.72	39.93	60.91	54.90	74.00	19.10	Peak
@ 2414.280	28.26	5.76	39.93	106.07	100.16	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.560	28.20	5.72	39.93	50.10	44.09	54.00	9.91	Average
2390.040	28.20	5.72	39.93	50.05	44.04	54.00	9.96	Average
@ 2413.920	28.26	5.76	39.93	95.17	89.26	---	---	Average

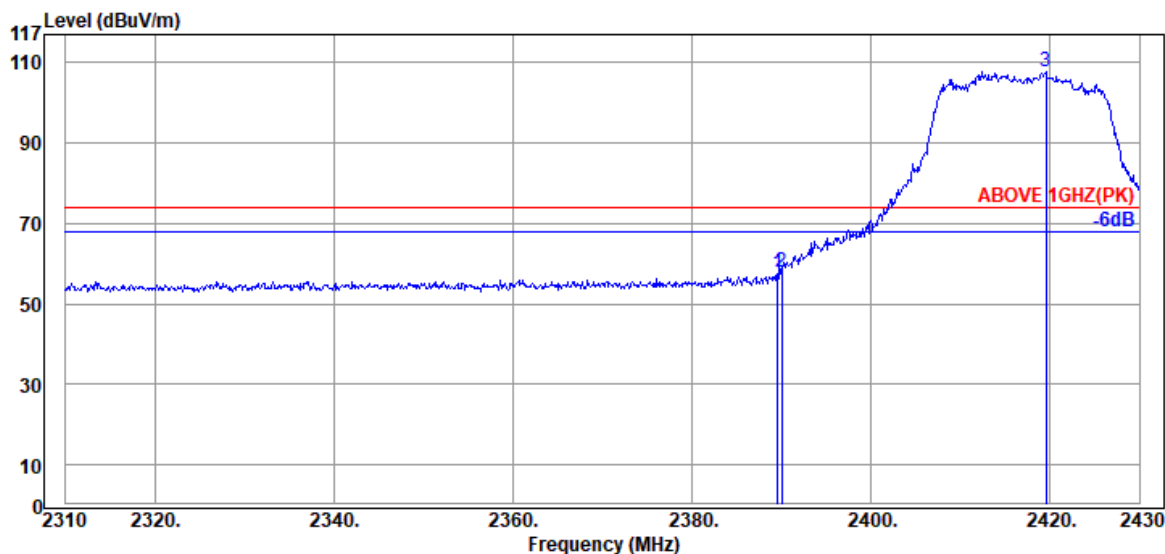
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Report Number: EM-F220521

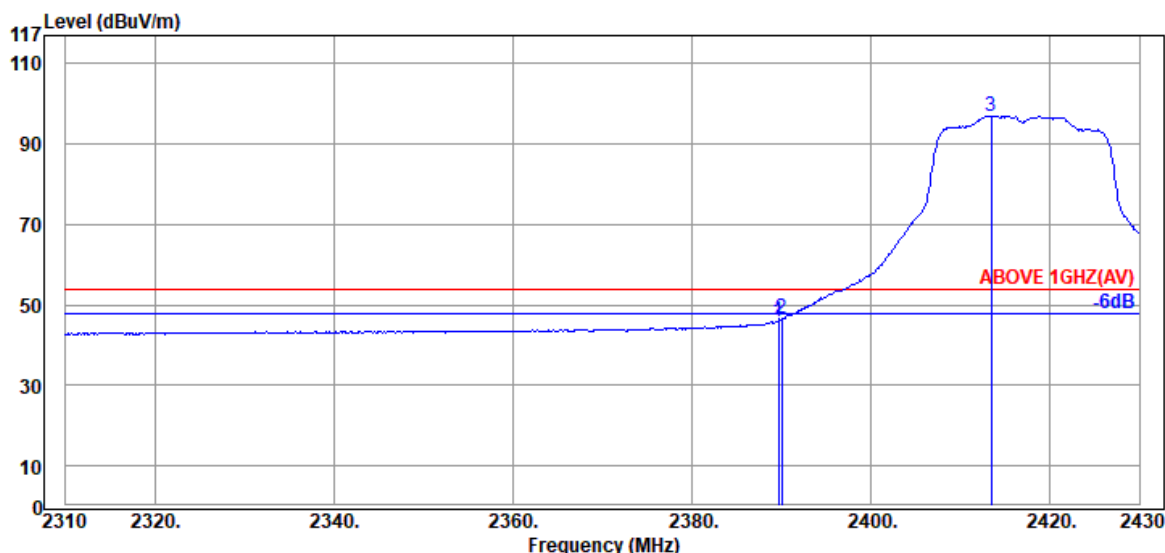
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Mode	802.11ax-HE20	Frequency	TX 2417MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.560	28.20	5.72	39.93	63.54	57.53	74.00	16.47	Peak
2390.040	28.20	5.72	39.93	64.02	58.01	74.00	15.99	Peak
@ 2419.560	28.29	5.77	39.93	113.64	107.77	---	---	Peak



Antenna at Vertical Polarization

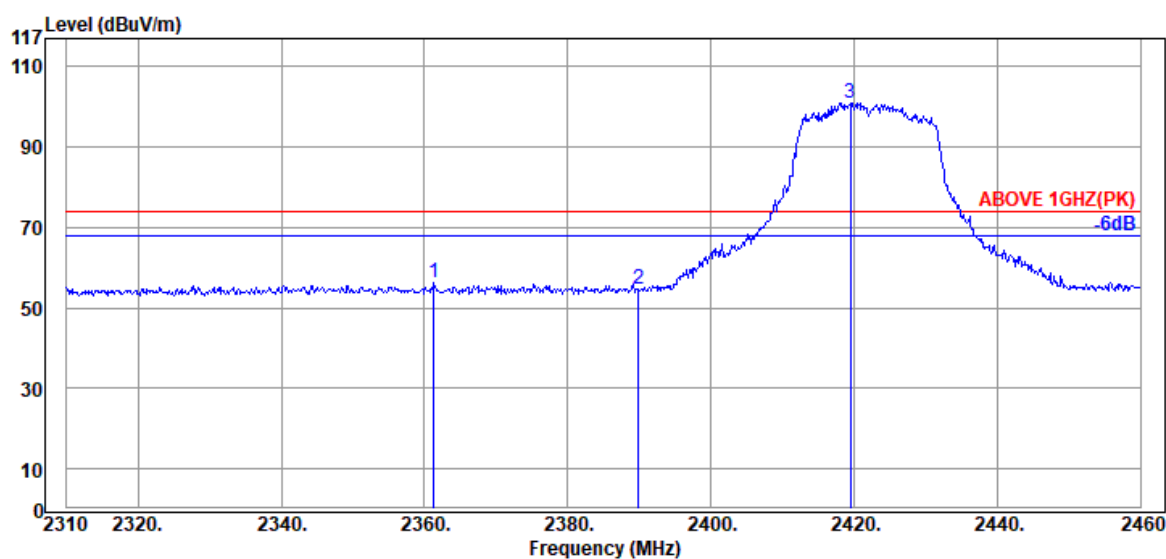
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2389.680	28.20	5.72	39.93	52.05	46.04	54.00	7.96	Average
2390.040	28.20	5.72	39.93	52.54	46.53	54.00	7.47	Average
@ 2413.440	28.26	5.76	39.93	102.90	96.99	---	---	Average

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

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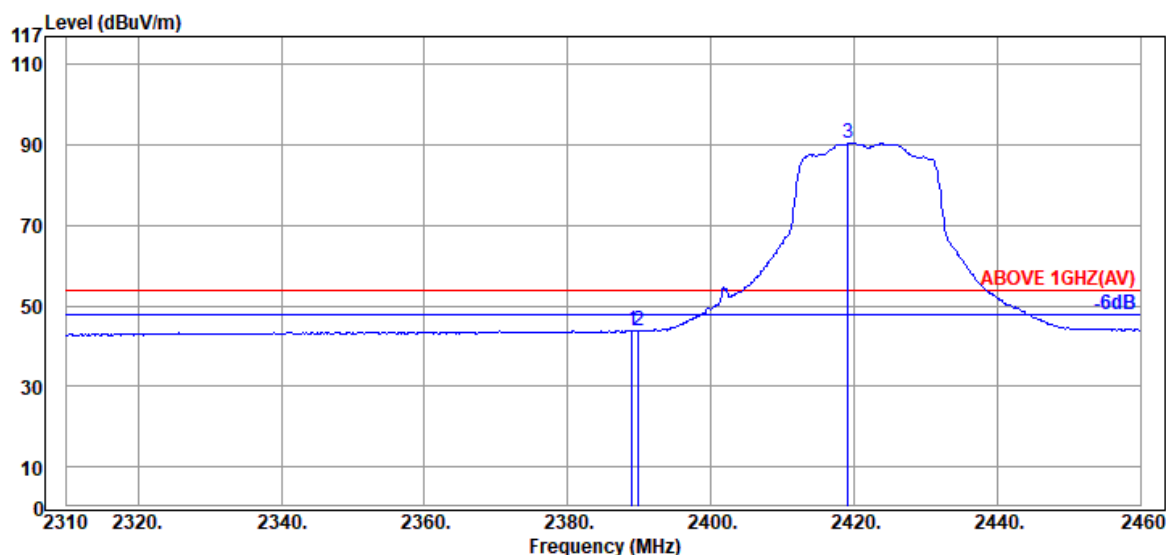
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Mode	802.11ax-HE20	Frequency	TX 2422MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2361.300	28.20	5.67	39.93	62.21	56.15	74.00	17.85	Peak
2389.950	28.20	5.72	39.93	60.66	54.65	74.00	19.35	Peak
@ 2419.500	28.29	5.77	39.93	106.95	101.08	---	---	Peak



Antenna at Horizontal Polarization

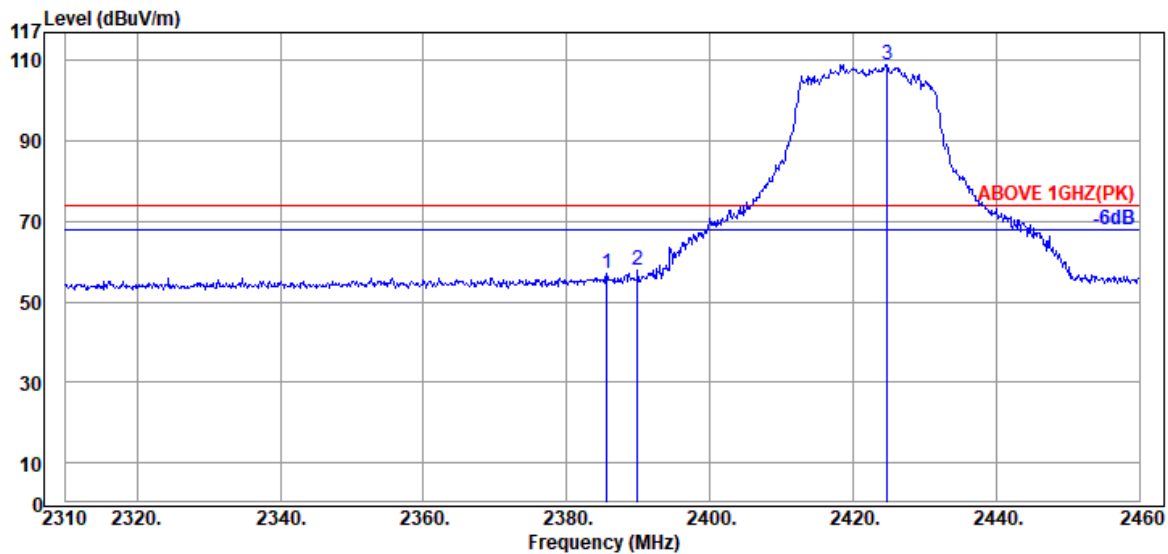
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2389.050	28.20	5.72	39.93	49.90	43.89	54.00	10.11	Average
2389.950	28.20	5.72	39.93	49.91	43.90	54.00	10.10	Average
@ 2419.200	28.29	5.77	39.93	96.33	90.46	---	---	Average

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

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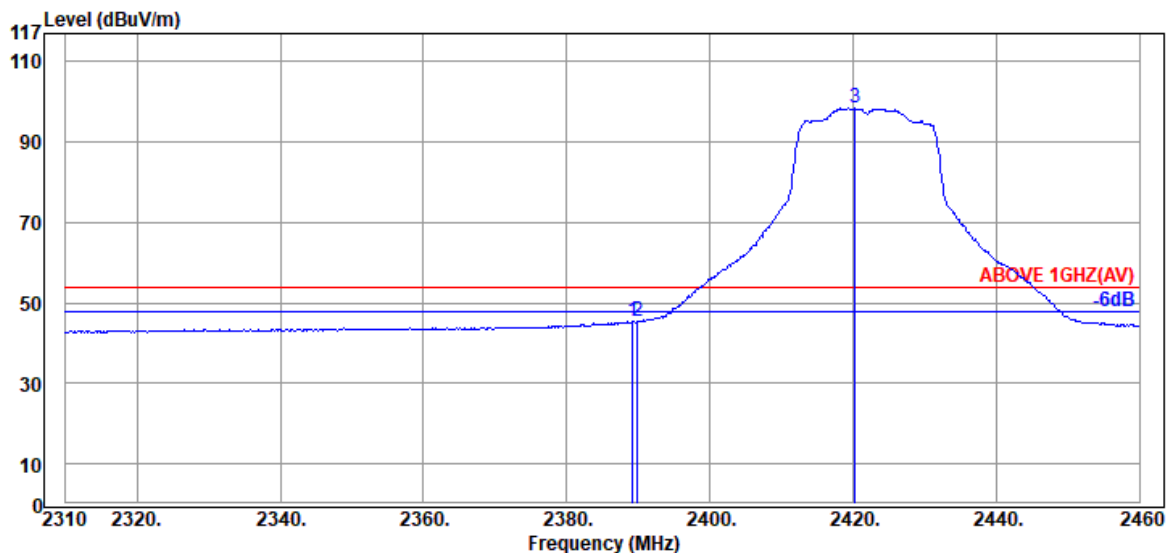
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Mode	802.11ax-HE20	Frequency	TX 2422MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2385.600	28.20	5.72	39.93	63.25	57.24	74.00	16.76	Peak
2389.950	28.20	5.72	39.93	63.85	57.84	74.00	16.16	Peak
@ 2424.750	28.29	5.77	39.93	114.89	109.02	---	---	Peak



Antenna at Vertical Polarization

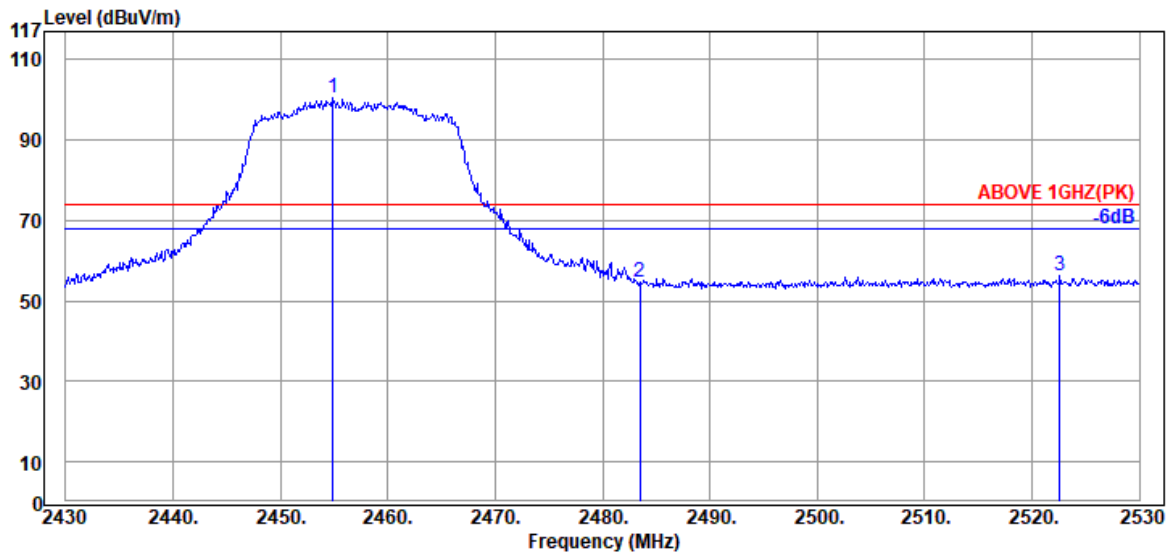
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2389.200	28.20	5.72	39.93	51.36	45.35	54.00	8.65	Average
2389.950	28.20	5.72	39.93	51.44	45.43	54.00	8.57	Average
@ 2420.250	28.29	5.77	39.93	104.24	98.37	---	---	Average

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

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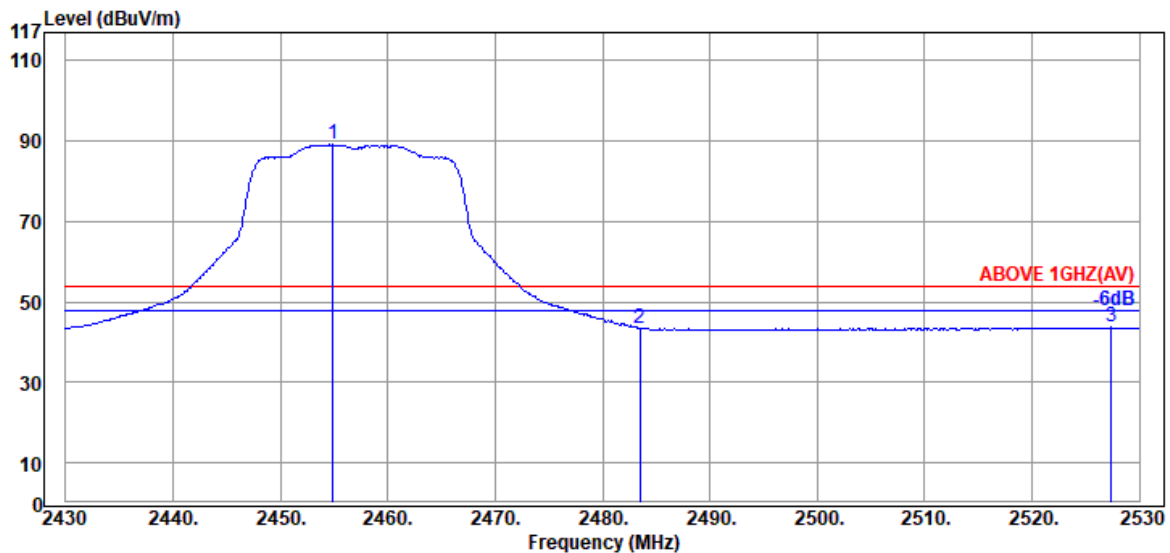
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Mode	802.11ax-HE20	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2454.900	28.41	5.83	39.92	106.10	100.42	---	---	Peak
2483.500	28.47	5.87	39.92	60.15	54.57	74.00	19.43	Peak
2522.600	28.59	5.94	39.93	61.71	56.31	74.00	17.69	Peak

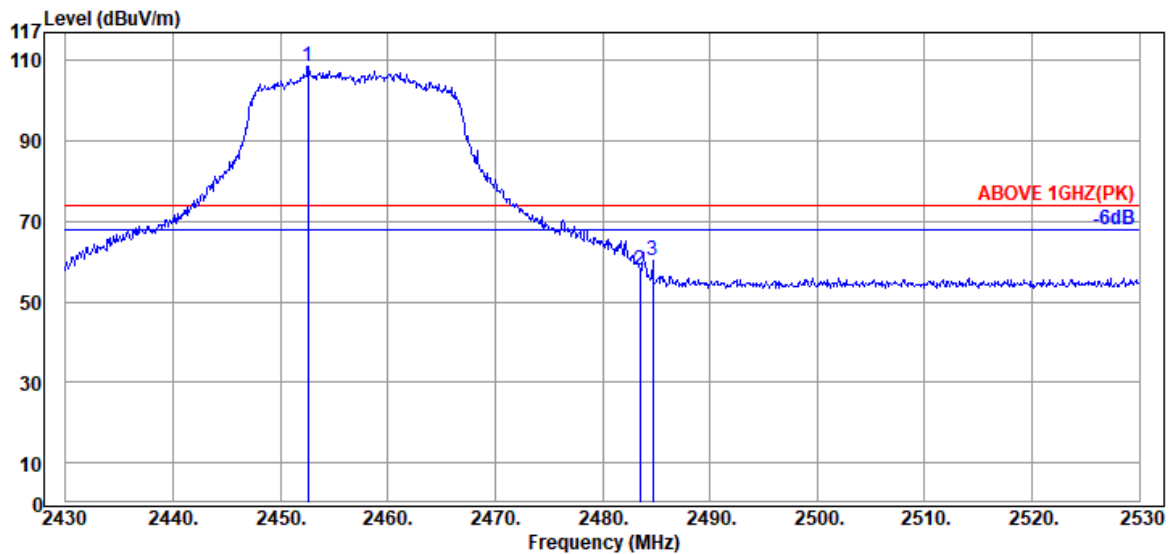


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2454.900	28.41	5.83	39.92	94.85	89.17	---	---	Average
2483.500	28.47	5.87	39.92	49.09	43.51	54.00	10.49	Average
2527.400	28.61	5.96	39.93	49.02	43.66	54.00	10.34	Average

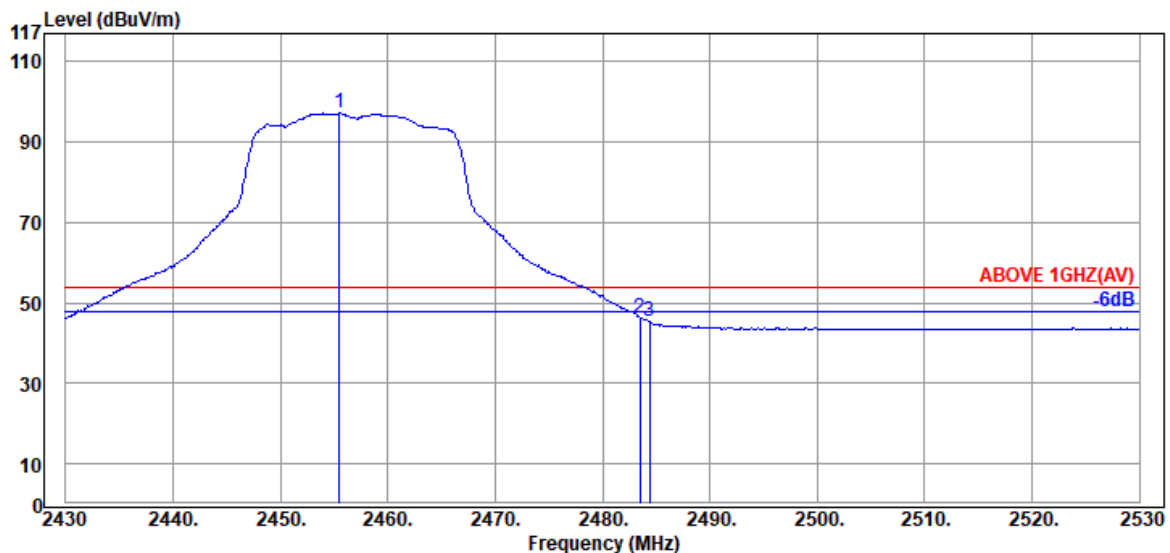
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11ax-HE20	Frequency	TX 2457MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2452.600	28.40	5.81	39.92	114.27	108.56	---	---	Peak
2483.500	28.47	5.87	39.92	63.49	57.91	74.00	16.09	Peak
2484.700	28.47	5.87	39.92	65.69	60.11	74.00	13.89	Peak

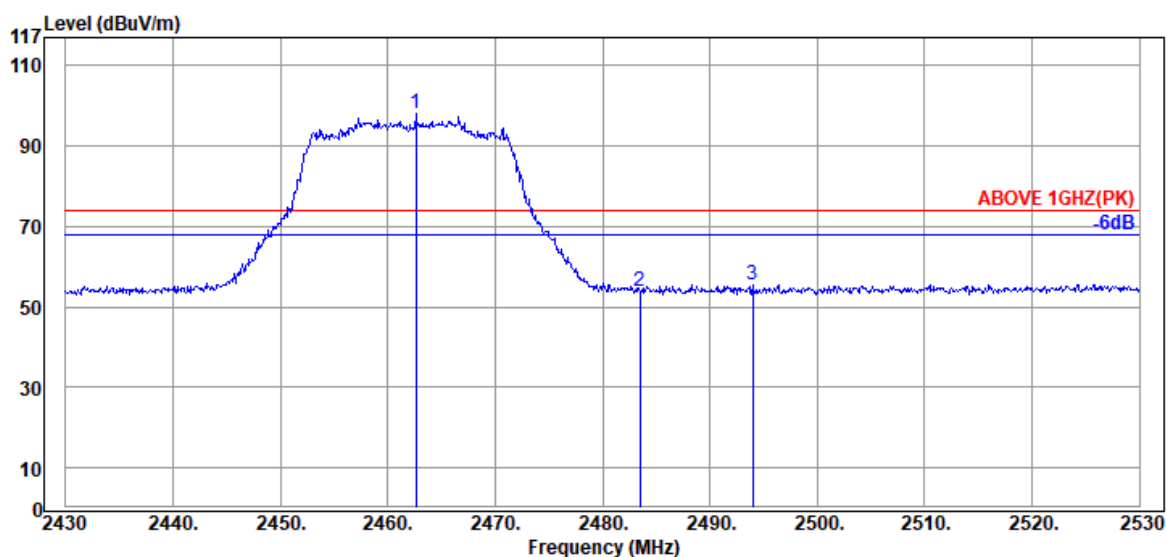


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2455.500	28.41	5.83	39.92	102.85	97.17	---	---	Average
2483.500	28.47	5.87	39.92	51.95	46.37	54.00	7.63	Average
2484.400	28.47	5.87	39.92	51.03	45.45	54.00	8.55	Average

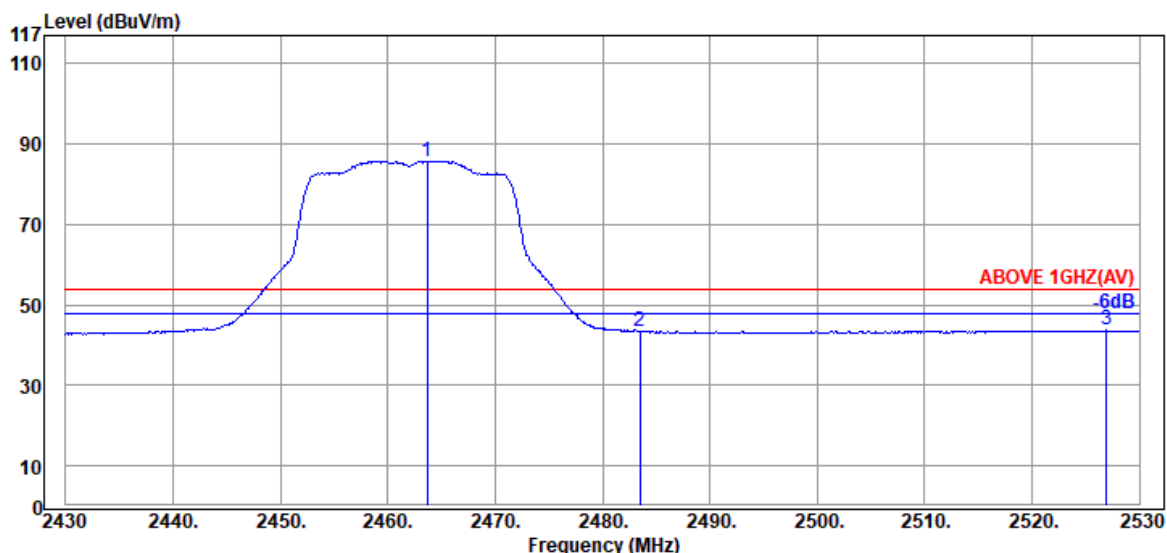
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11ax-HE20	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2462.600	28.43	5.84	39.92	103.70	98.05	---	---	Peak
2483.500	28.47	5.87	39.92	59.39	53.81	74.00	20.19	Peak
2494.000	28.49	5.88	39.92	61.21	55.66	74.00	18.34	Peak

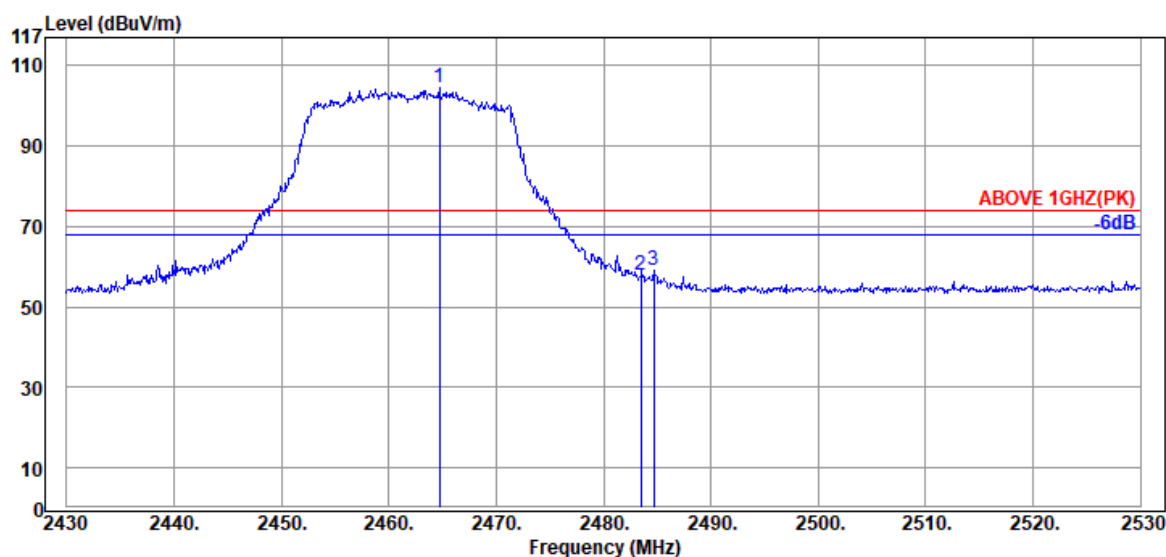


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2463.700	28.43	5.84	39.92	91.49	85.84	---	---	Average
2483.500	28.47	5.87	39.92	49.02	43.44	54.00	10.56	Average
2526.900	28.61	5.96	39.93	49.03	43.67	54.00	10.33	Average

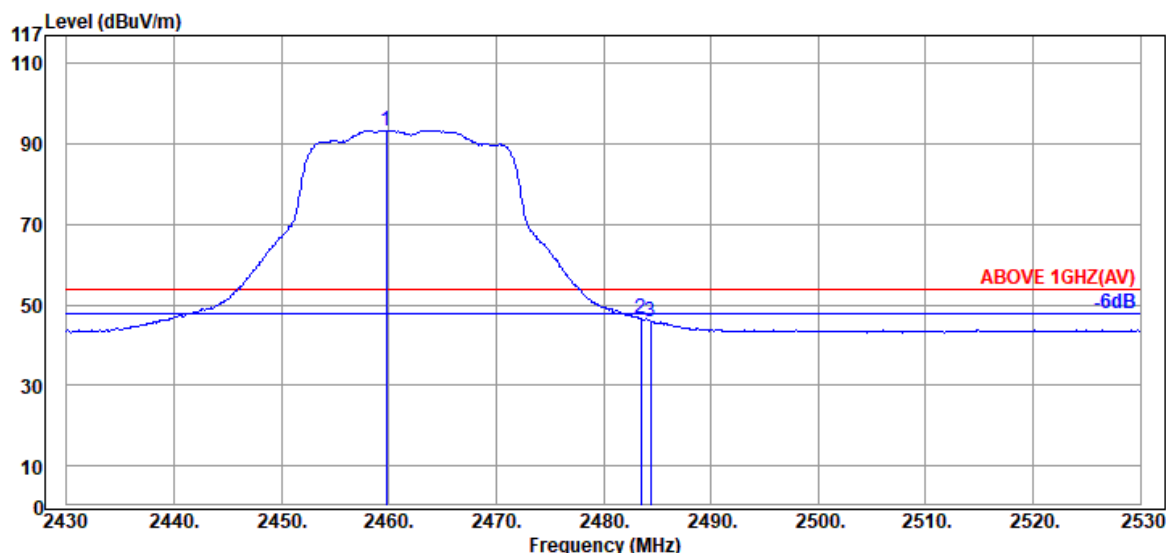
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11ax-HE20	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2464.700	28.43	5.84	39.92	110.13	104.48	---	---	Peak
2483.500	28.47	5.87	39.92	63.50	57.92	74.00	16.08	Peak
2484.700	28.47	5.87	39.92	64.81	59.23	74.00	14.77	Peak



Antenna at Vertical Polarization

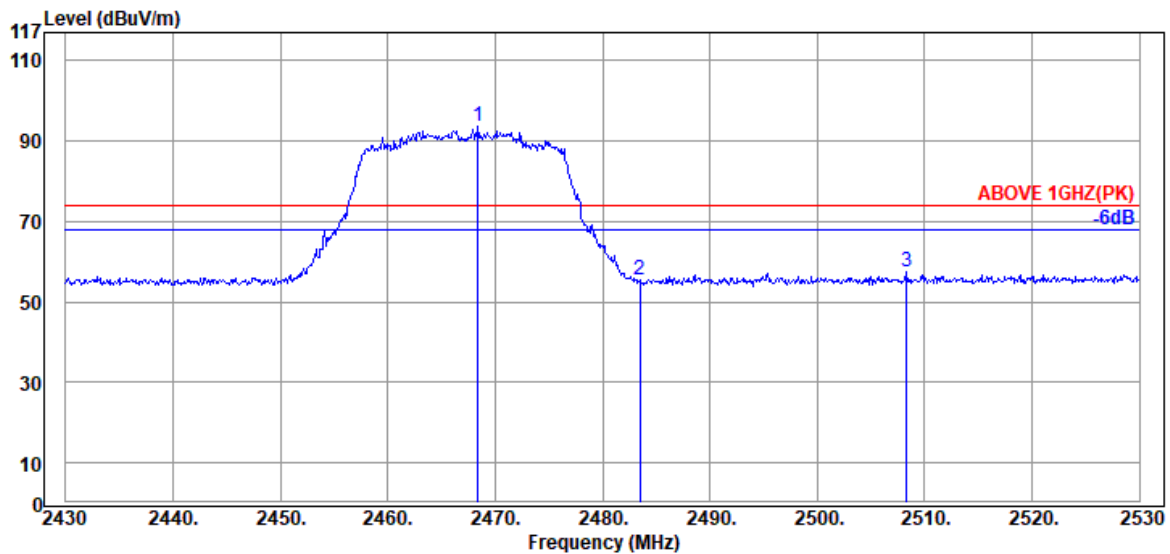
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@ 2459.800	28.41	5.83	39.92	99.13	93.45	---	---	Average
2483.500	28.47	5.87	39.92	52.12	46.54	54.00	7.46	Average
2484.400	28.47	5.87	39.92	51.52	45.94	54.00	8.06	Average

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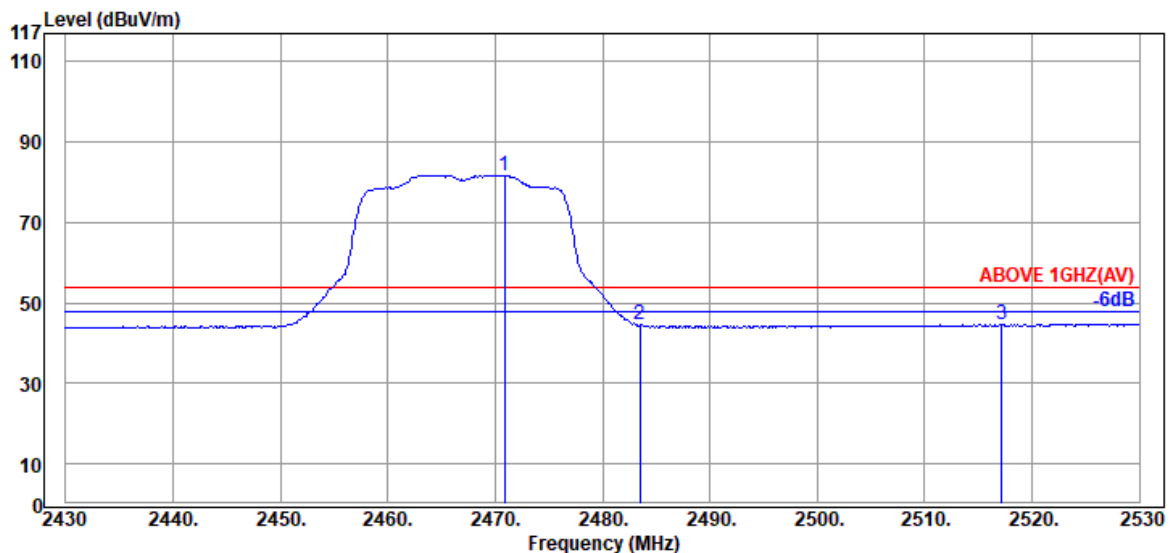
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Mode	802.11ax-HE20	Frequency	TX 2467MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2468.400	28.44	5.85	39.92	99.22	93.59	---	---	Peak
2483.500	28.47	5.87	39.92	60.97	55.39	74.00	18.61	Peak
2508.300	28.53	5.91	39.92	62.88	57.40	74.00	16.60	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2470.900	28.44	5.85	39.92	87.44	81.81	---	---	Average
2483.500	28.47	5.87	39.92	50.02	44.44	54.00	9.56	Average
2517.200	28.56	5.93	39.93	50.19	44.75	54.00	9.25	Average

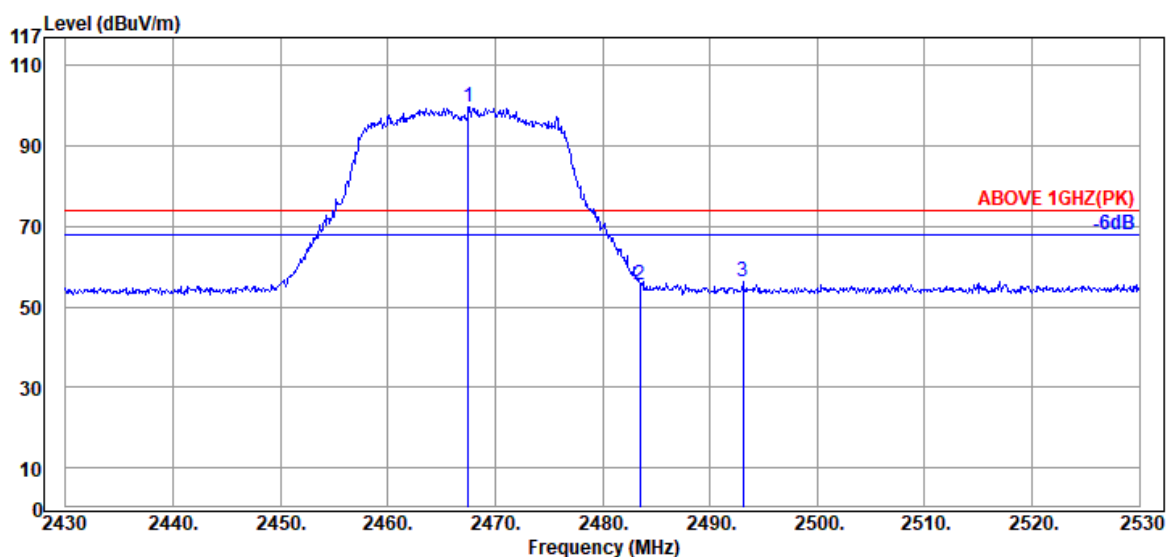
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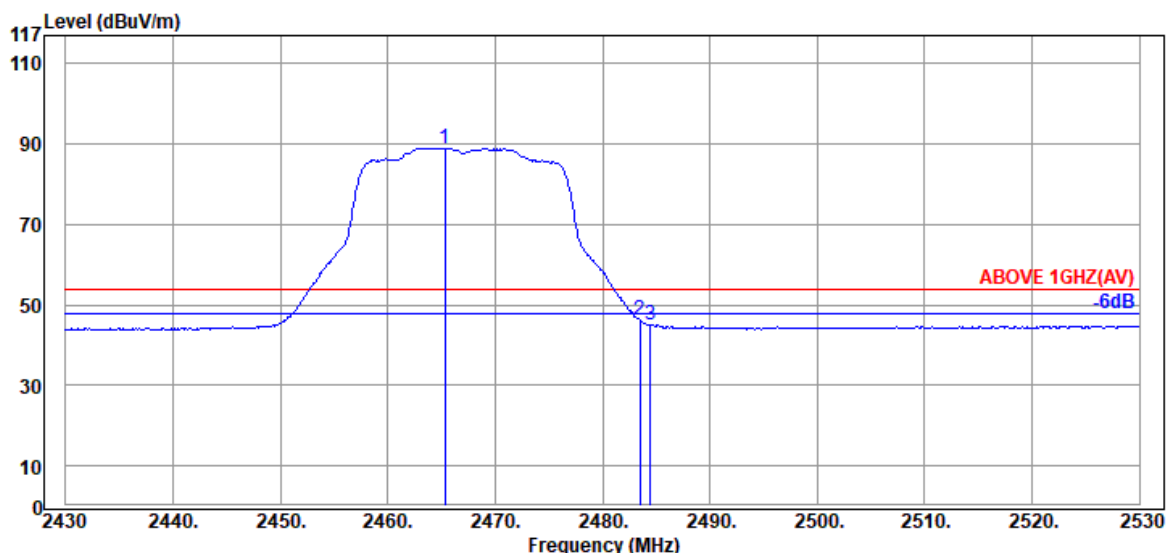
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Mode	802.11ax-HE20	Frequency	TX 2467MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2467.500	28.43	5.84	39.92	105.55	99.90	---	---	Peak
2483.500	28.47	5.87	39.92	60.89	55.31	74.00	18.69	Peak
2493.100	28.49	5.88	39.92	61.84	56.29	74.00	17.71	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2465.300	28.43	5.84	39.92	94.67	89.02	---	---	Average
2483.500	28.47	5.87	39.92	51.93	46.35	54.00	7.65	Average
2484.500	28.47	5.87	39.92	50.55	44.97	54.00	9.03	Average

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

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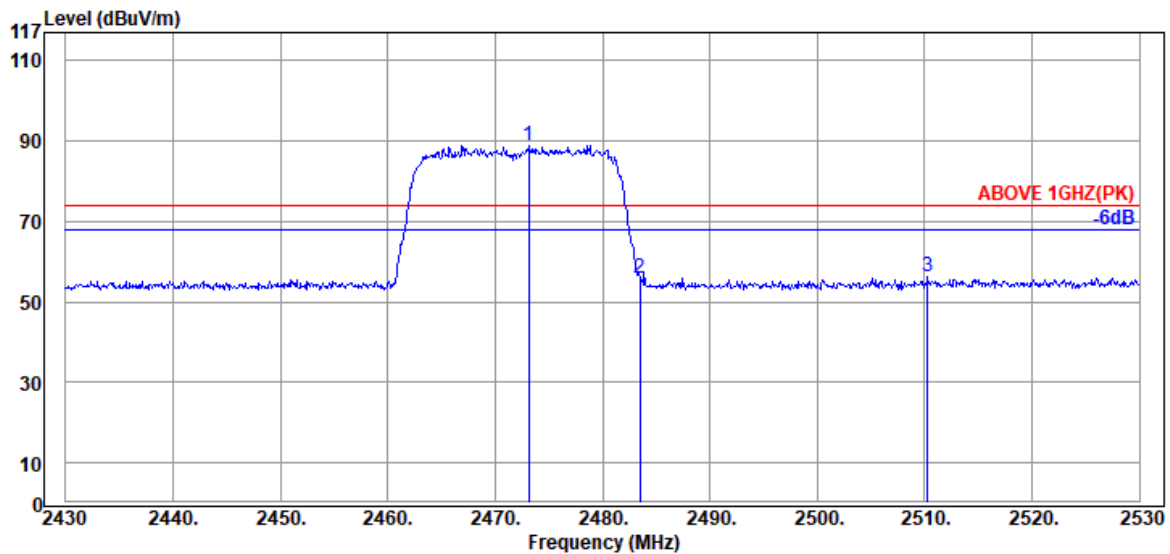
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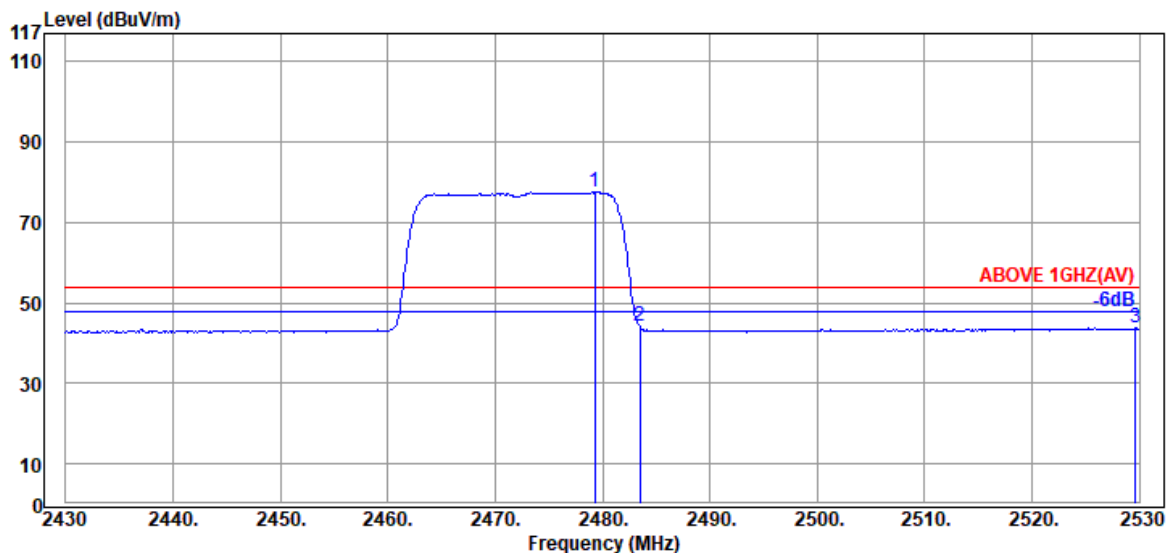
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Mode	802.11ax-HE20	Frequency	TX 2472MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2473.100	28.44	5.85	39.92	94.52	88.89	---	---	Peak
2483.500	28.47	5.87	39.92	61.36	55.78	74.00	18.22	Peak
2510.300	28.53	5.91	39.92	61.92	56.44	74.00	17.56	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.300	28.46	5.86	39.92	83.15	77.55	---	---	Average
2483.500	28.47	5.87	39.92	49.82	44.24	54.00	9.76	Average
2529.600	28.61	5.96	39.93	49.17	43.81	54.00	10.19	Average

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

File Number: CIM2207002

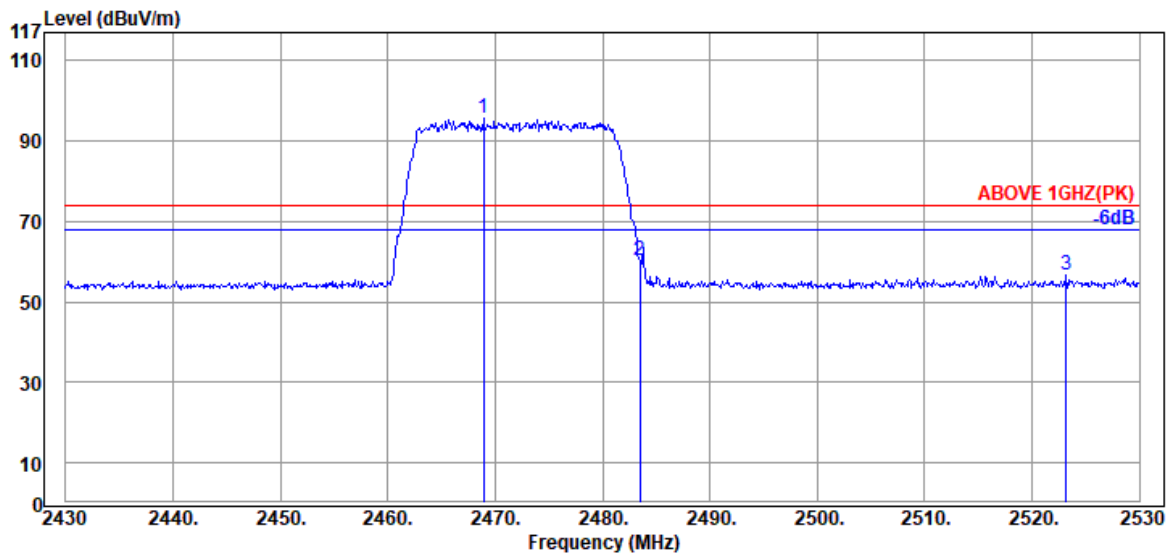
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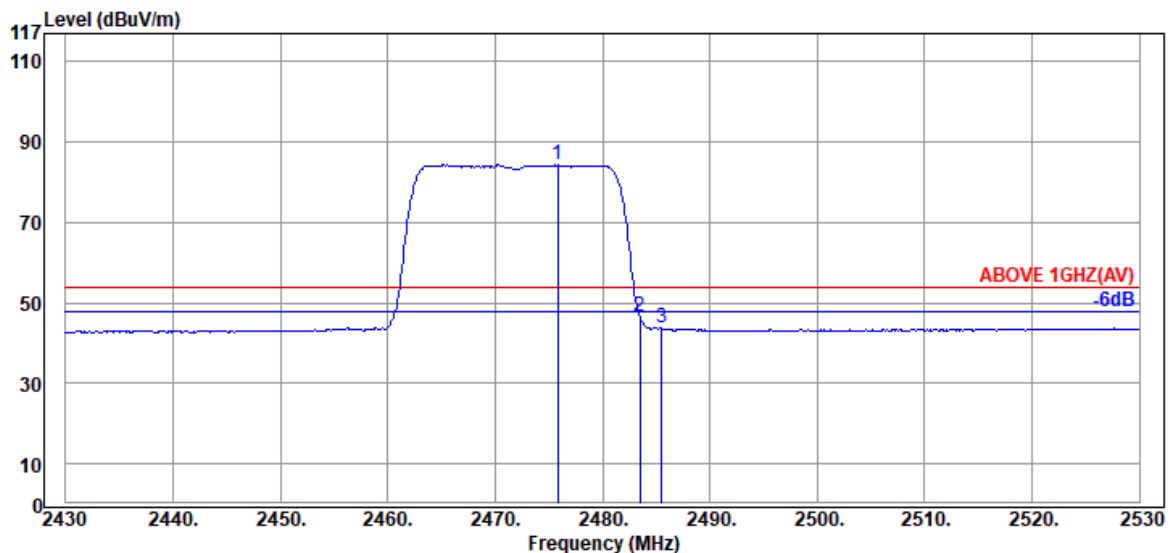
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Mode	802.11ax-HE20	Frequency	TX 2472MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2468.900	28.44	5.85	39.92	101.47	95.84	---	---	Peak
2483.500	28.47	5.87	39.92	65.81	60.23	74.00	13.77	Peak
2523.200	28.59	5.94	39.93	61.99	56.59	74.00	17.41	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2475.800	28.46	5.86	39.92	90.02	84.42	---	---	Average
2483.500	28.47	5.87	39.92	52.12	46.54	54.00	7.46	Average
2485.500	28.47	5.87	39.92	49.46	43.88	54.00	10.12	Average

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

File Number: C1M2207002

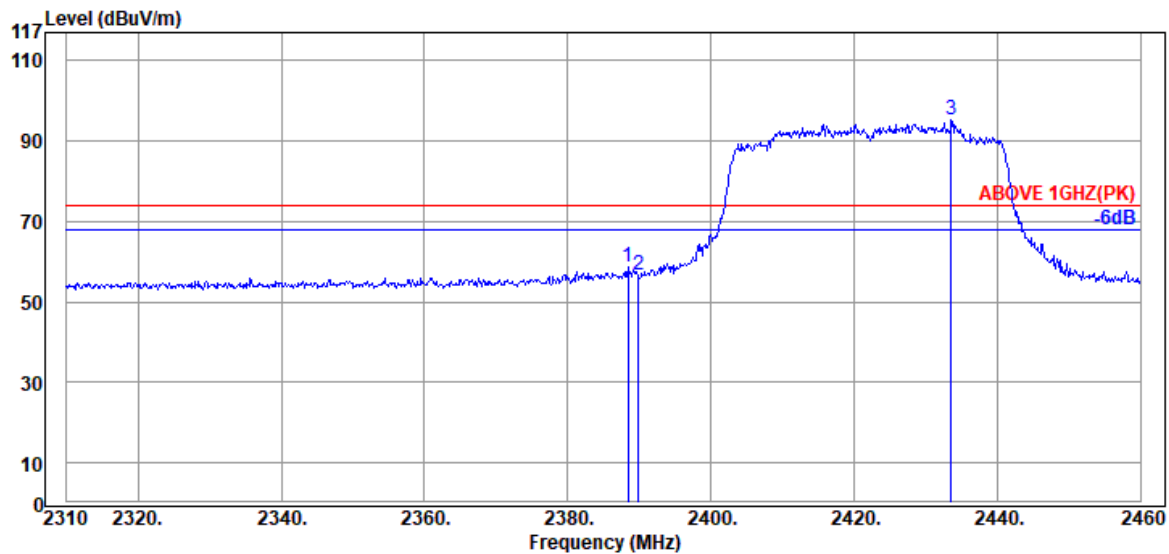
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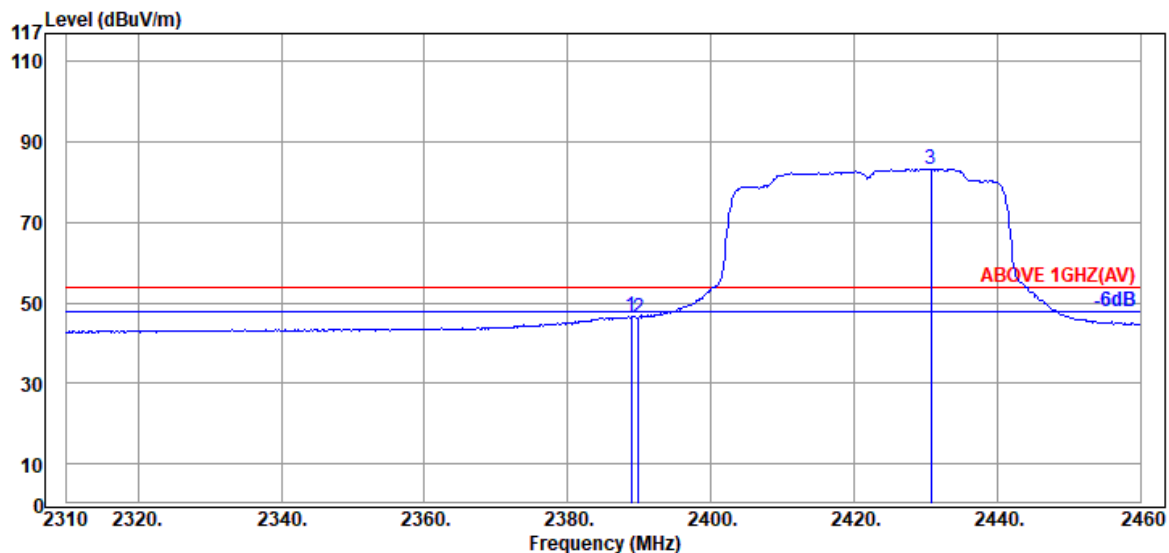
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Mode	802.11ax-HE40	Frequency	TX 2422MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2388.450	28.20	5.72	39.93	64.57	58.56	74.00	15.44	Peak
2389.950	28.20	5.72	39.93	62.70	56.69	74.00	17.31	Peak
@ 2433.600	28.34	5.79	39.93	101.09	95.29	---	---	Peak

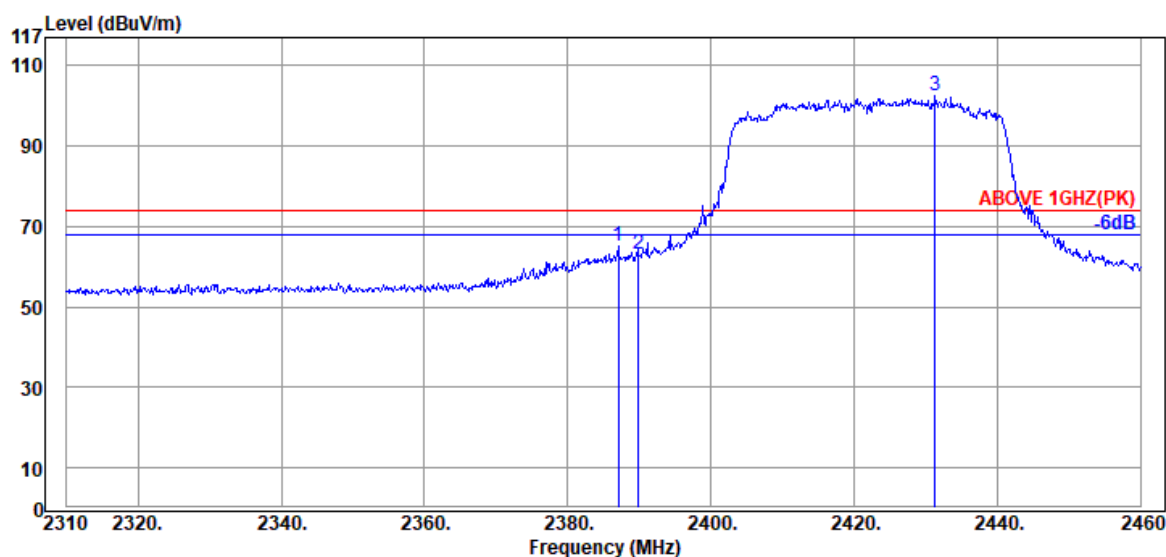


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2388.900	28.20	5.72	39.93	52.59	46.58	54.00	7.42	Average
2389.950	28.20	5.72	39.93	52.29	46.28	54.00	7.72	Average
@ 2430.750	28.31	5.78	39.93	89.21	83.37	---	---	Average

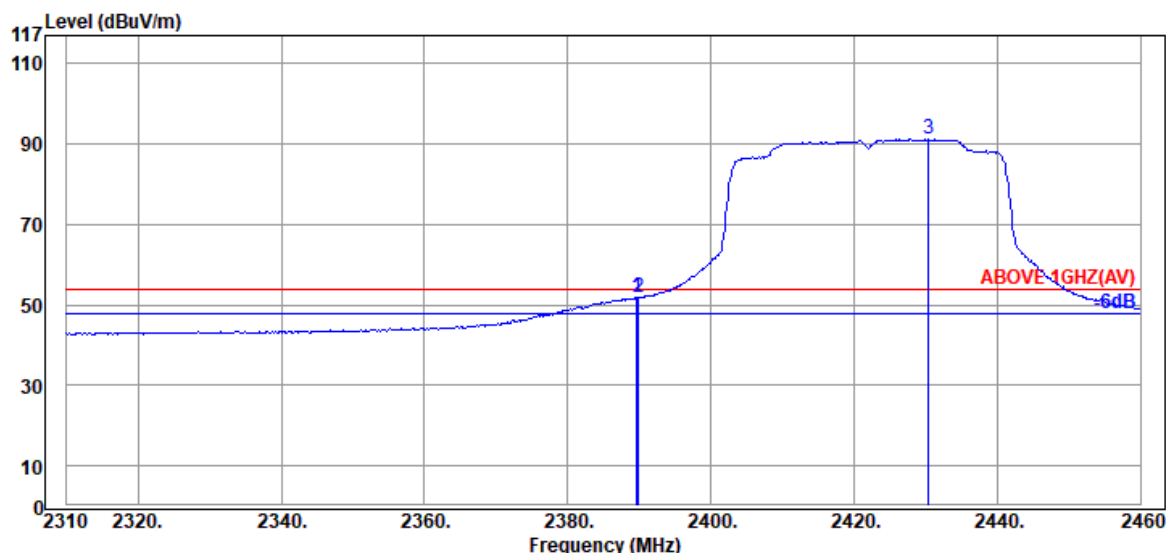
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11ax-HE40	Frequency	TX 2422MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2387.100	28.20	5.72	39.93	70.96	64.95	74.00	9.05	Peak
2389.950	28.20	5.72	39.93	69.17	63.16	74.00	10.84	Peak
@ 2431.350	28.31	5.78	39.93	108.56	102.72	---	---	Peak



Antenna at Vertical Polarization

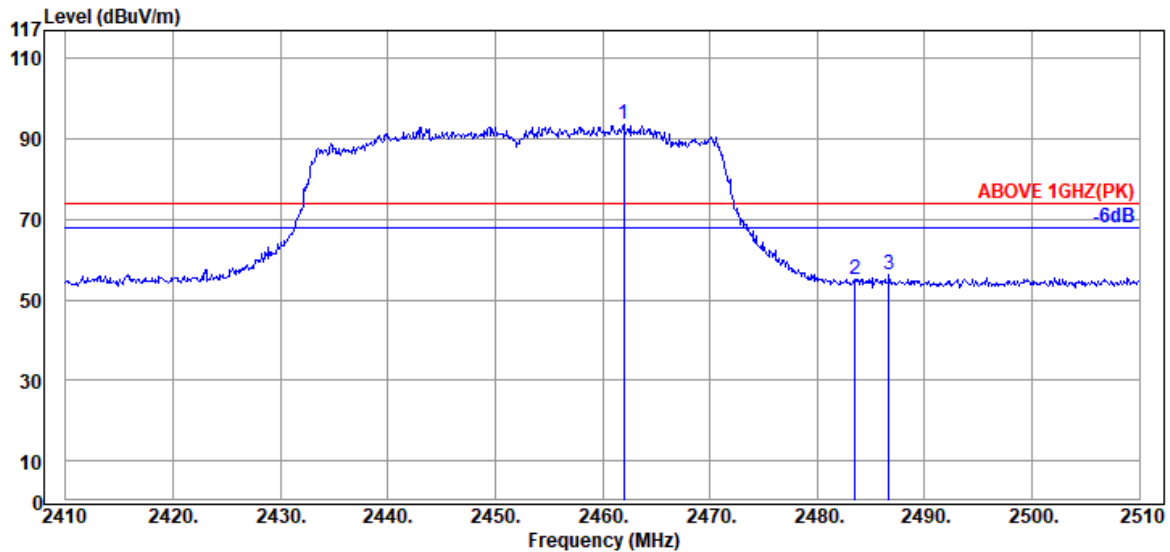
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.650	28.20	5.72	39.93	57.84	51.83	54.00	2.17	Average
2389.950	28.20	5.72	39.93	57.69	51.68	54.00	2.32	Average
@ 2430.450	28.31	5.78	39.93	97.03	91.19	---	---	Average

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

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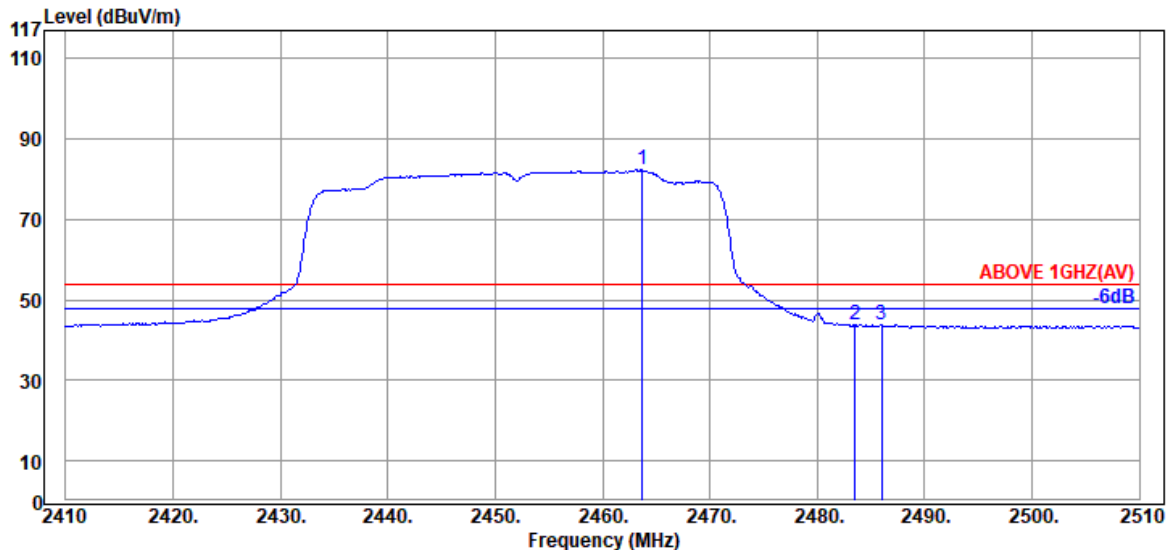
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Fax: +886 2 26099303

Mode	802.11ax-HE40	Frequency	TX 2452MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2462.000	28.43	5.84	39.92	99.27	93.62	---	---	Peak
2483.500	28.47	5.87	39.92	60.67	55.09	74.00	18.91	Peak
2486.700	28.47	5.87	39.92	61.71	56.13	74.00	17.87	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2463.700	28.43	5.84	39.92	87.94	82.29	---	---	Average
2483.500	28.47	5.87	39.92	49.32	43.74	54.00	10.26	Average
2486.000	28.47	5.87	39.92	49.42	43.84	54.00	10.16	Average

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Report Number: EM-F220521

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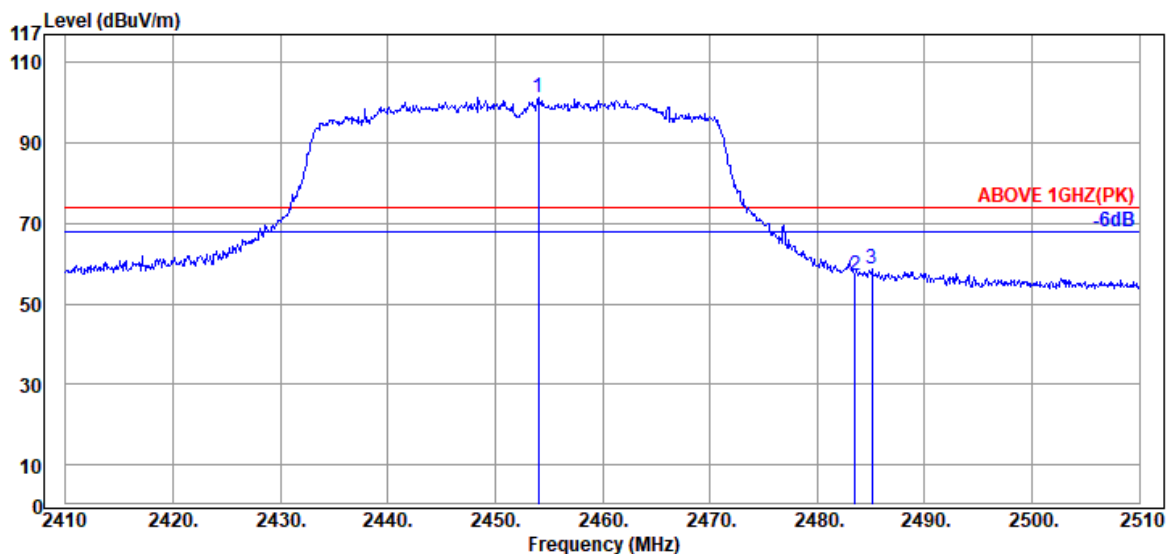
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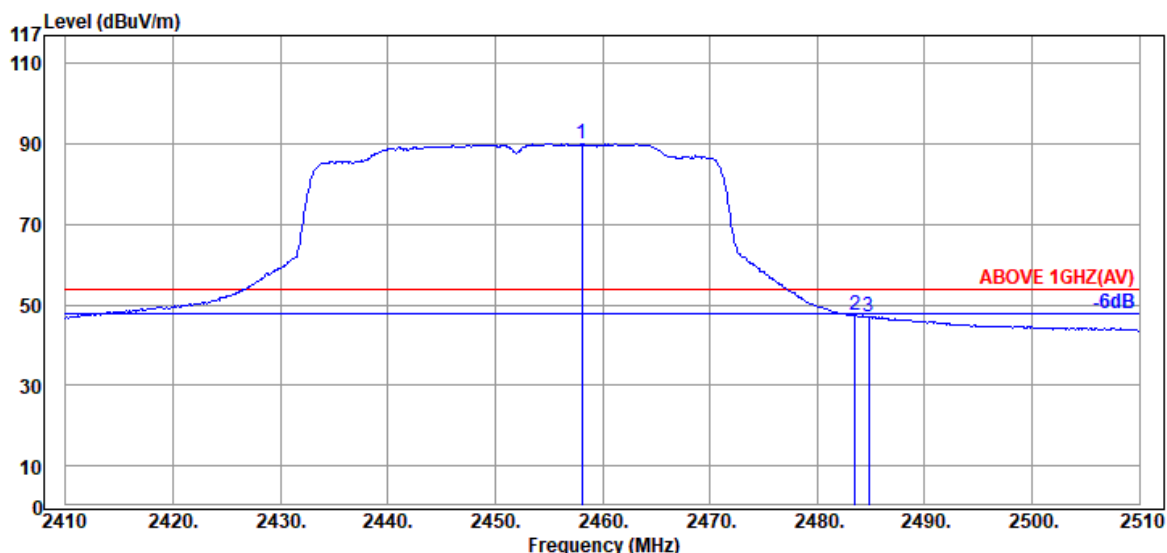
Fax: +886 2 26099303

Mode	802.11ax-HE40	Frequency	TX 2452MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2454.000	28.41	5.83	39.92	107.11	101.43	---	---	Peak
2483.500	28.47	5.87	39.92	62.70	57.12	74.00	16.88	Peak
2485.100	28.47	5.87	39.92	64.26	58.68	74.00	15.32	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2458.100	28.41	5.83	39.92	95.77	90.09	---	---	Average
2483.500	28.47	5.87	39.92	53.06	47.48	54.00	6.52	Average
2484.800	28.47	5.87	39.92	52.73	47.15	54.00	6.85	Average

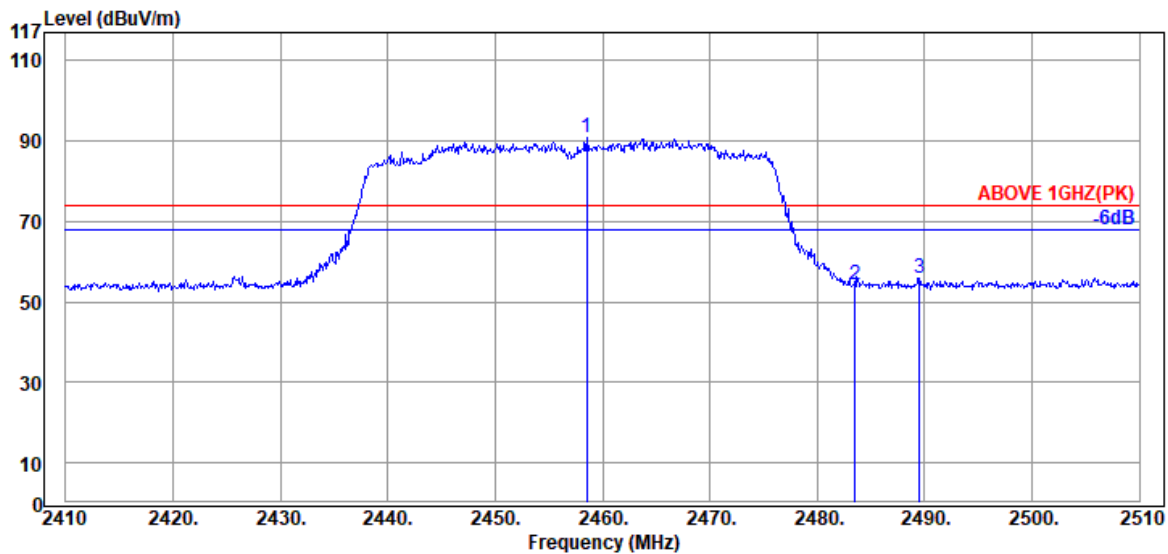
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File Number: CIM2207002

Report Number: EM-F220521

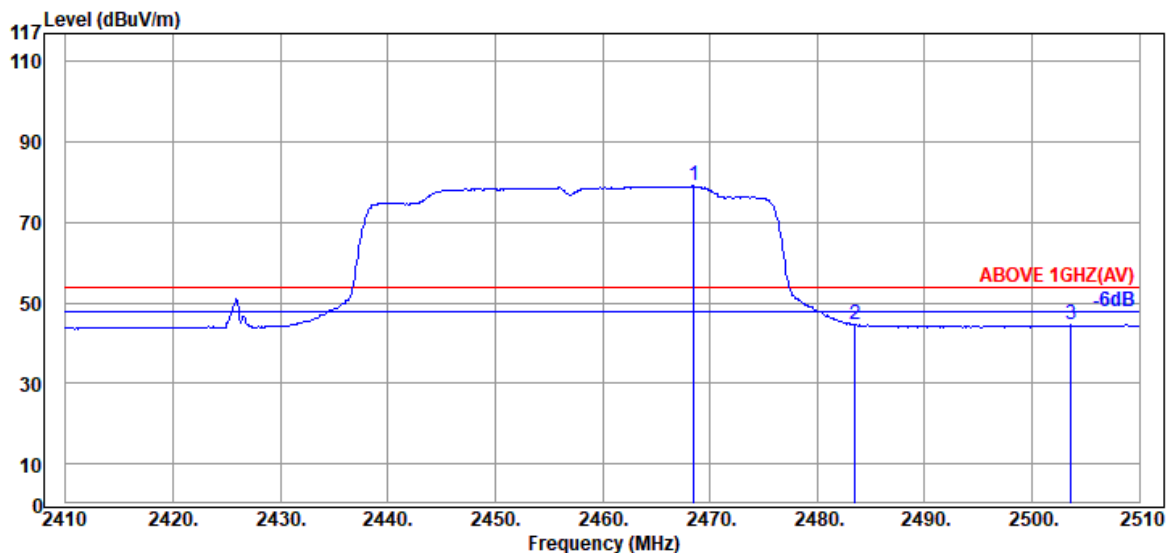
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Mode	802.11ax-HE40	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2458.500	28.41	5.83	39.92	96.65	90.97	---	---	Peak
2483.500	28.47	5.87	39.92	59.91	54.33	74.00	19.67	Peak
2489.500	28.49	5.88	39.92	61.55	56.00	74.00	18.00	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2468.500	28.44	5.85	39.92	84.74	79.11	---	---	Average
2483.500	28.47	5.87	39.92	50.15	44.57	54.00	9.43	Average
2503.600	28.53	5.91	39.92	49.94	44.46	54.00	9.54	Average

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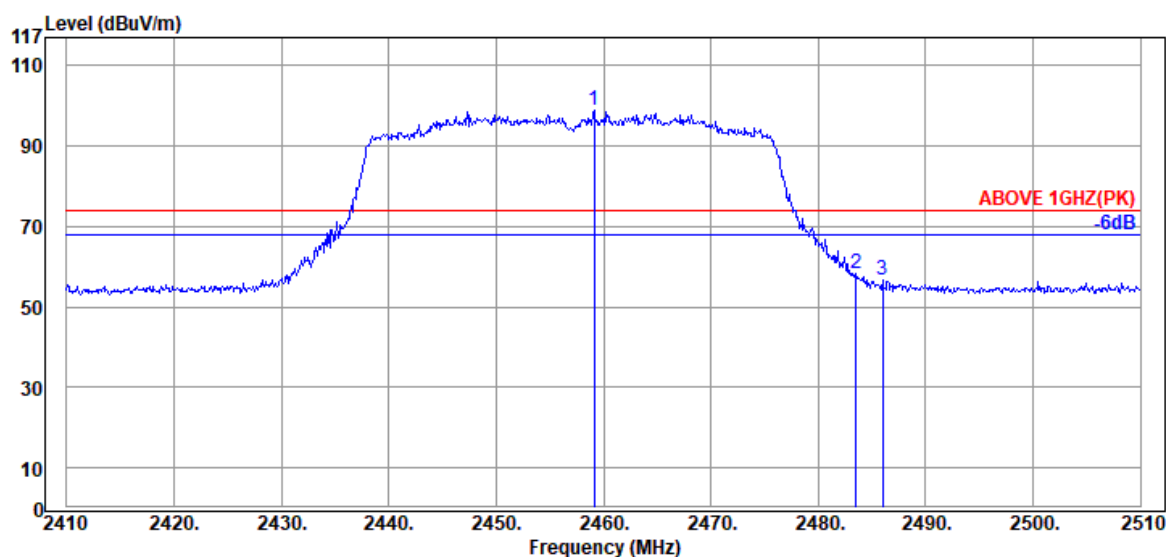
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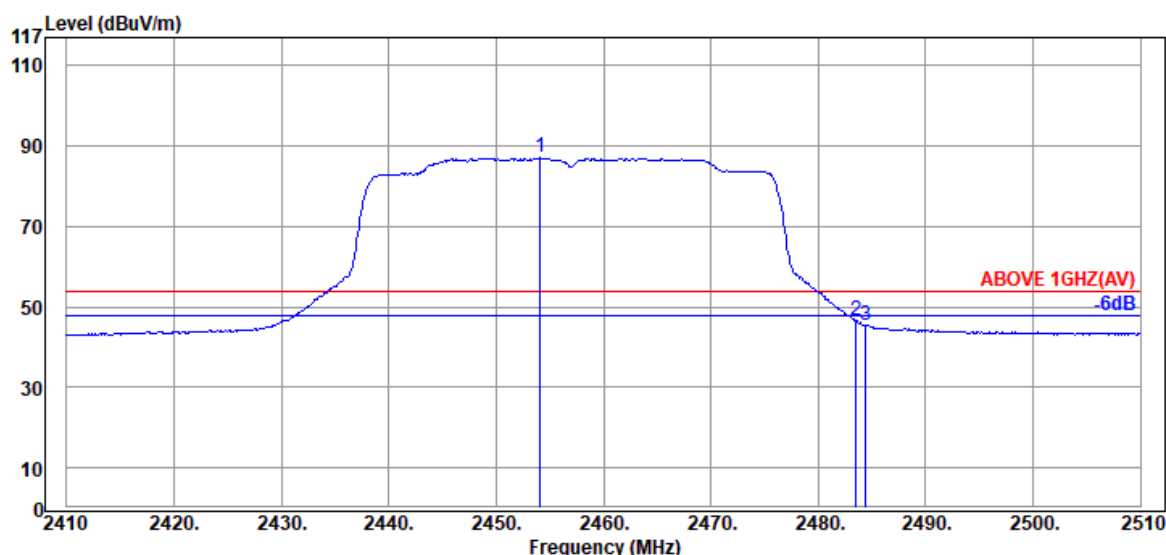
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Mode	802.11ax-HE40	Frequency	TX 2457MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2459.100	28.41	5.83	39.92	104.50	98.82	---	---	Peak
2483.500	28.47	5.87	39.92	63.86	58.28	74.00	15.72	Peak
2486.000	28.47	5.87	39.92	62.30	56.72	74.00	17.28	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2454.100	28.41	5.83	39.92	92.74	87.06	---	---	Average
2483.500	28.47	5.87	39.92	52.08	46.50	54.00	7.50	Average
2484.400	28.47	5.87	39.92	51.14	45.56	54.00	8.44	Average

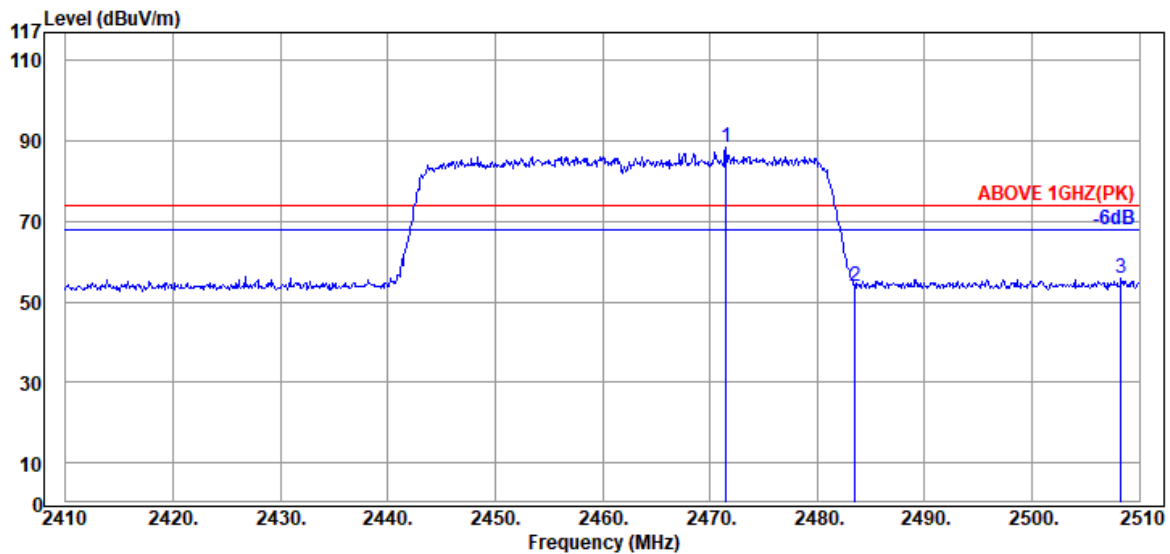
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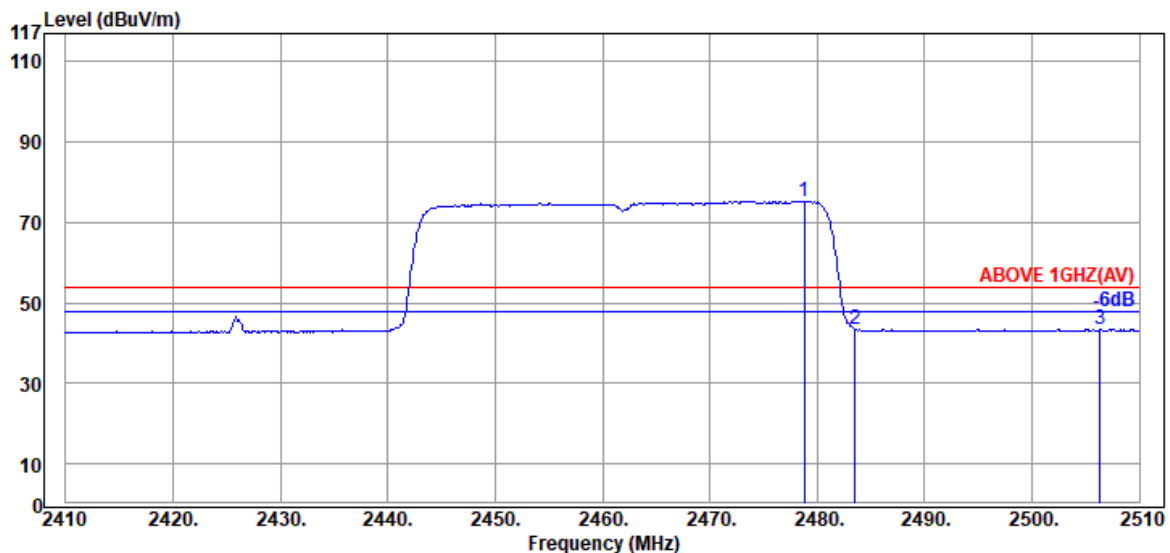
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Mode	802.11ax-HE40	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2471.500	28.44	5.85	39.92	93.95	88.32	---	---	Peak
2483.500	28.47	5.87	39.92	59.53	53.95	74.00	20.05	Peak
2508.300	28.53	5.91	39.92	61.50	56.02	74.00	17.98	Peak

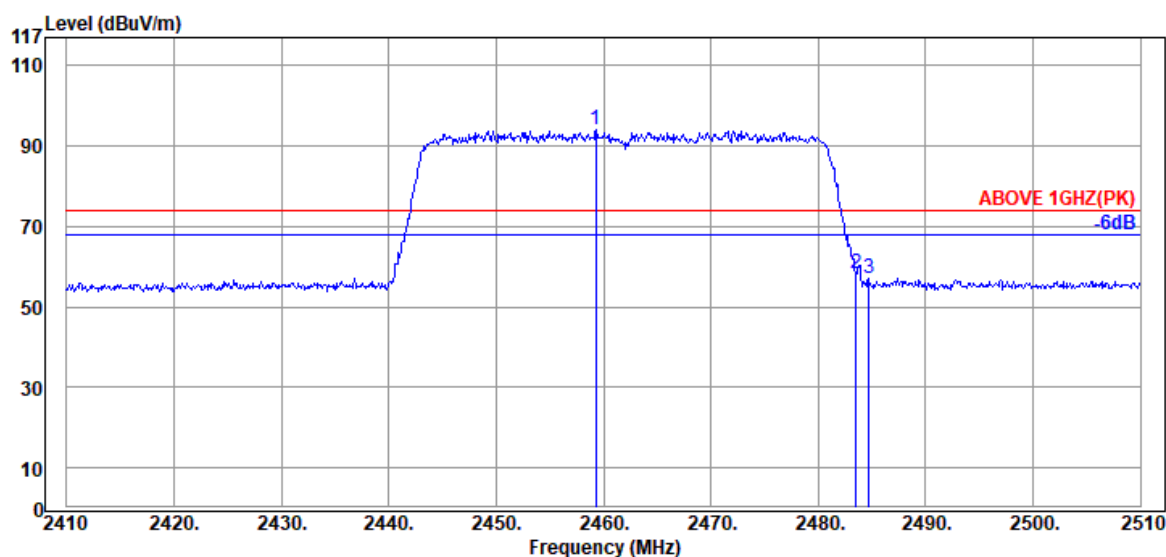


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2478.800	28.46	5.86	39.92	80.97	75.37	---	---	Average
2483.500	28.47	5.87	39.92	49.13	43.55	54.00	10.45	Average
2506.300	28.53	5.91	39.92	48.86	43.38	54.00	10.62	Average

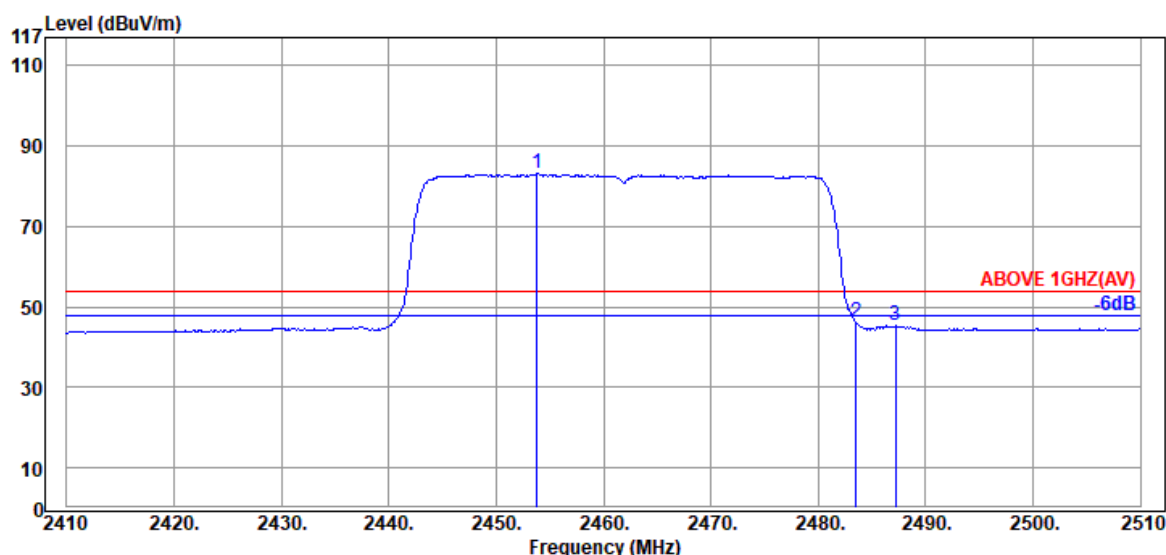
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11ax-HE40	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2459.300	28.41	5.83	39.92	99.63	93.95	---	---	Peak
2483.500	28.47	5.87	39.92	63.70	58.12	74.00	15.88	Peak
2484.700	28.47	5.87	39.92	62.87	57.29	74.00	16.71	Peak



Antenna at Vertical Polarization

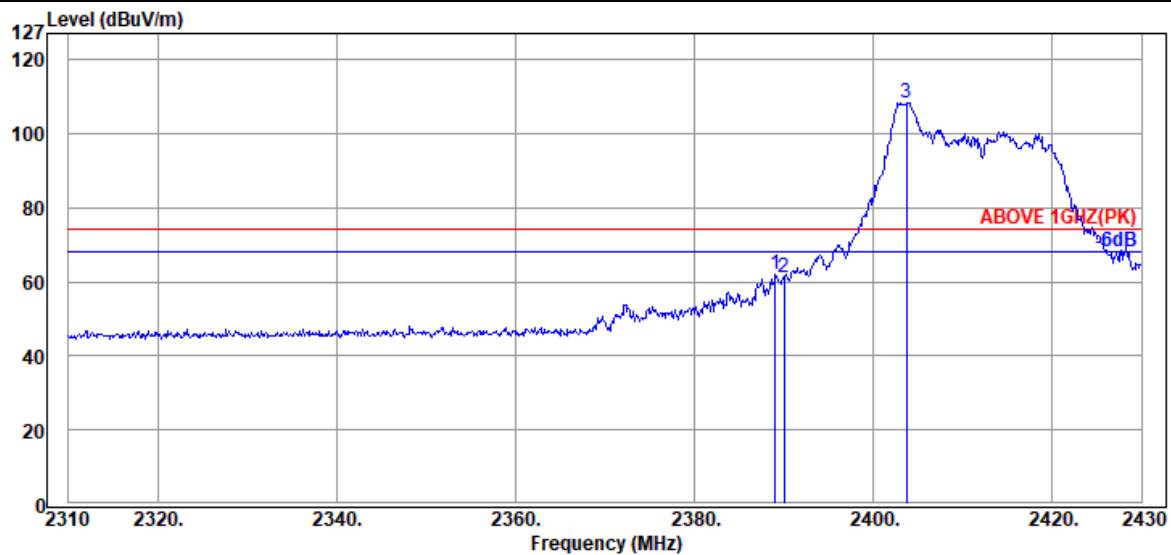
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@ 2453.800	28.41	5.83	39.92	88.86	83.18	---	---	Average
2483.500	28.47	5.87	39.92	51.94	46.36	54.00	7.64	Average
2487.200	28.47	5.87	39.92	50.83	45.25	54.00	8.75	Average

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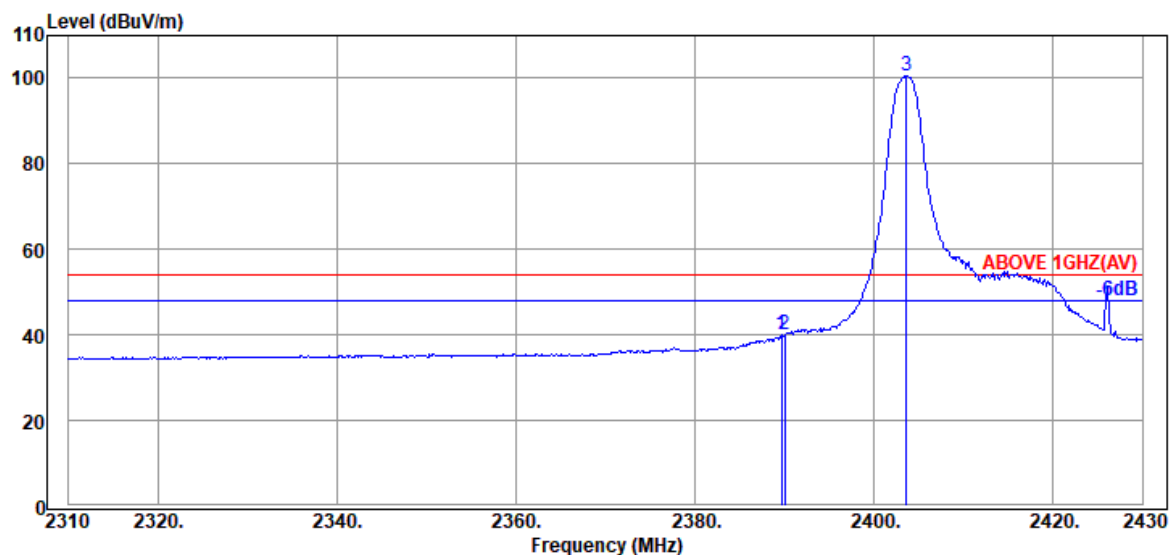
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Mode	802.11ax-HE20	Frequency	TX 2412MHz
		RU Configuration	26/0



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.080	28.20	5.72	39.93	67.83	61.82	74.00	12.18	Peak
2390.040	28.20	5.72	39.93	67.06	61.05	74.00	12.95	Peak
@ 2403.720	28.20	5.74	39.93	114.40	108.41	---	---	Peak



Antenna at Horizontal Polarization

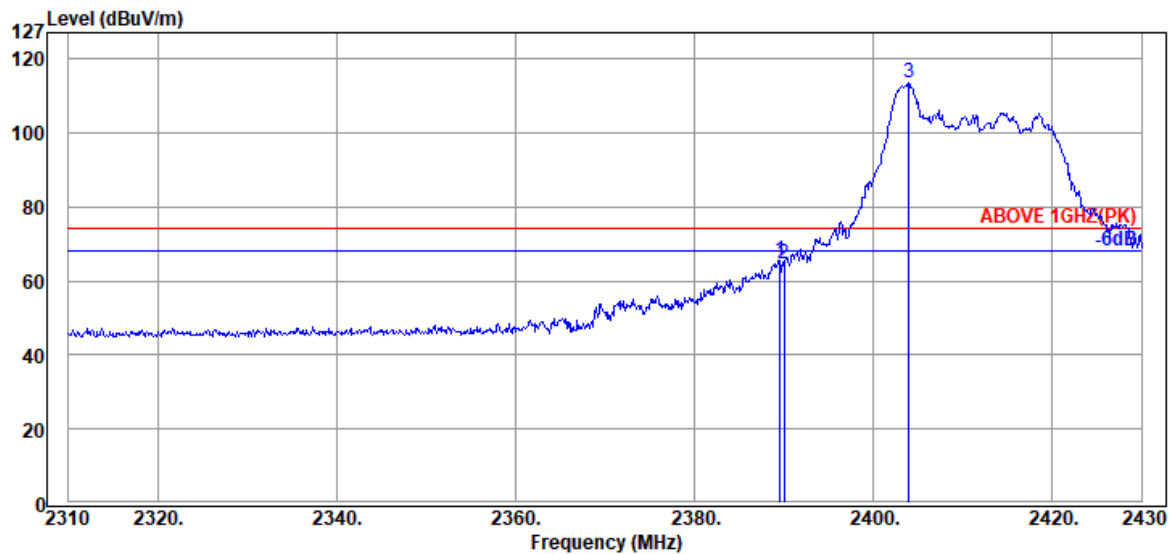
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	28.20	5.72	39.93	46.14	40.13	54.00	13.87	Average
2390.040	28.20	5.72	39.93	45.94	39.93	54.00	14.07	Average
@ 2403.600	28.20	5.74	39.93	106.62	100.63	---	---	Average

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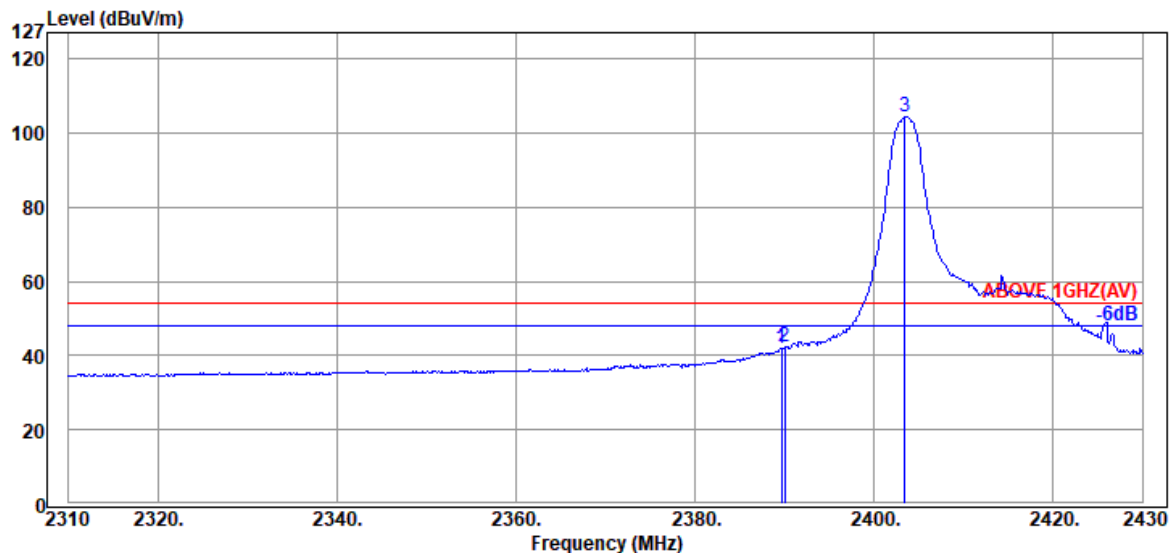
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Mode	802.11ax-HE20	Frequency	TX 2412MHz
		RU Configuration	26/0



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.560	28.20	5.72	39.93	71.51	65.50	74.00	8.50	Peak
2390.040	28.20	5.72	39.93	70.59	64.58	74.00	9.42	Peak
@ 2403.960	28.20	5.74	39.93	119.32	113.33	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	28.20	5.72	39.93	47.87	41.86	54.00	12.14	Average
2390.040	28.20	5.72	39.93	48.29	42.28	54.00	11.72	Average
@ 2403.480	28.20	5.74	39.93	110.42	104.43	---	---	Average

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

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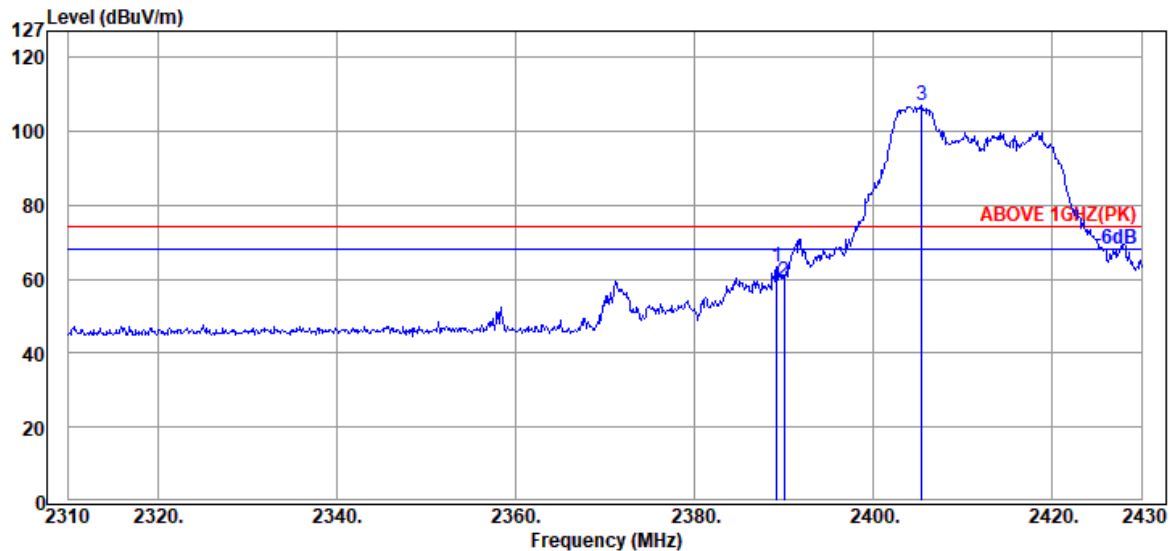
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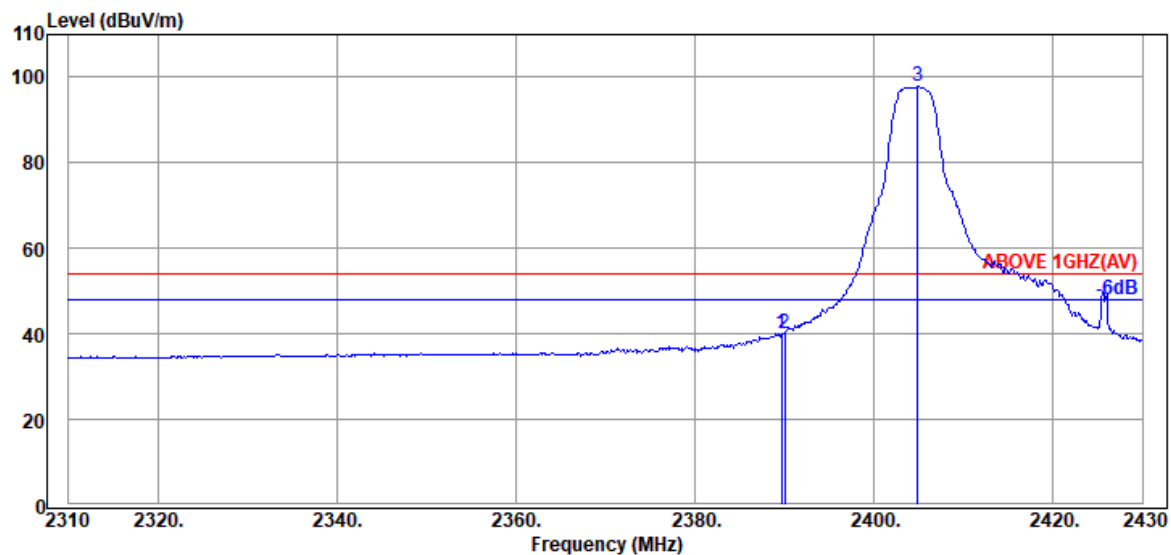
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Mode	802.11ax-HE20	Frequency	TX 2412MHz
		RU Configuration	52/37



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.200	28.20	5.72	39.93	69.29	63.28	74.00	10.72	Peak
2390.040	28.20	5.72	39.93	65.54	59.53	74.00	14.47	Peak
@ 2405.400	28.23	5.75	39.93	112.85	106.90	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	28.20	5.72	39.93	46.10	40.09	54.00	13.91	Average
2390.040	28.20	5.72	39.93	45.89	39.88	54.00	14.12	Average
@ 2404.920	28.23	5.75	39.93	103.73	97.78	---	---	Average

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

File Number: C1M2207002

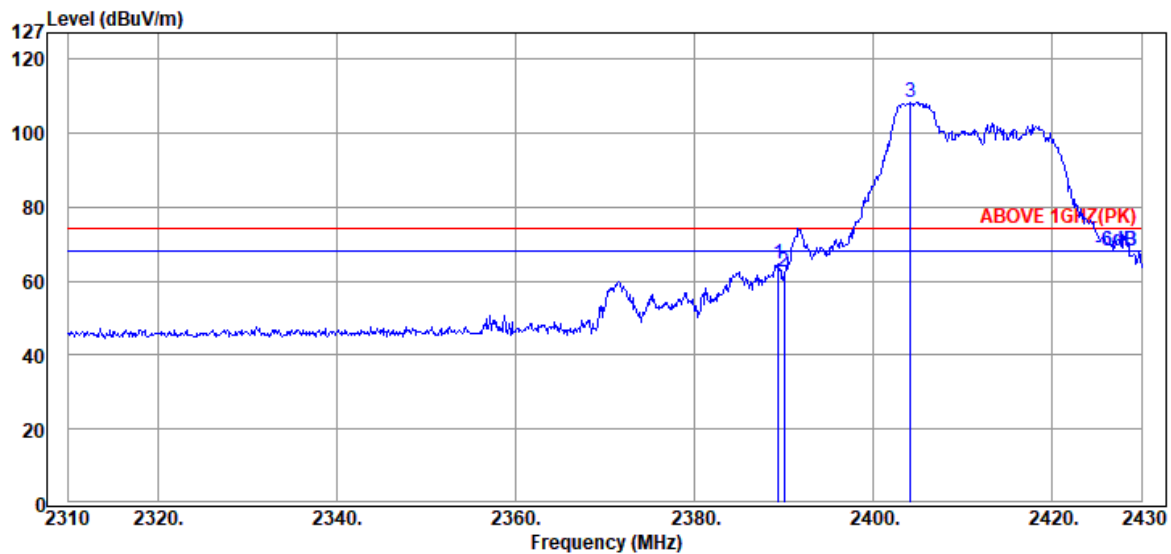
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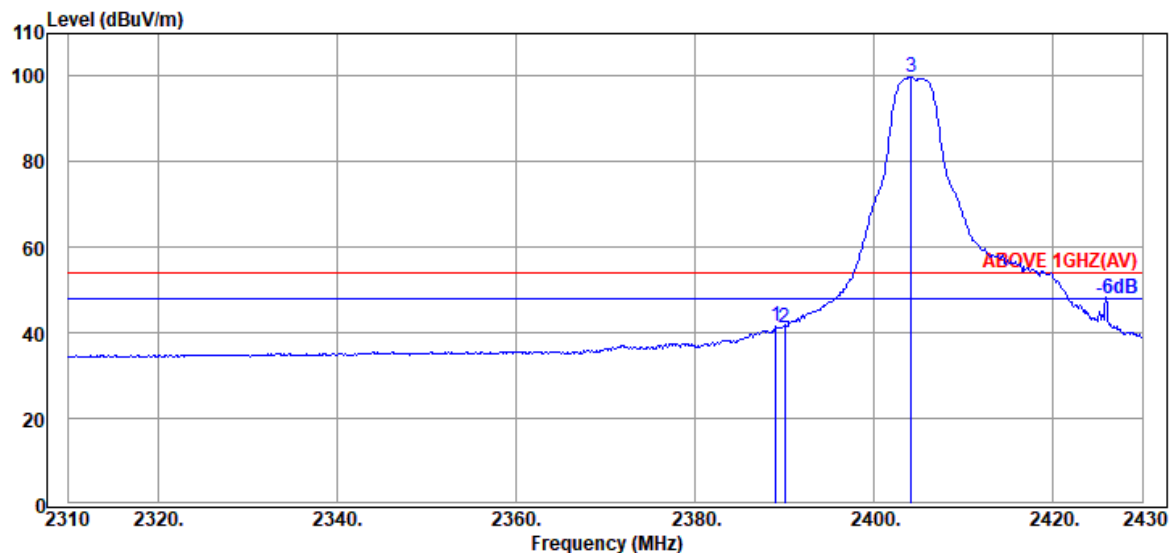
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Mode	802.11ax-HE20	Frequency	TX 2412MHz
		RU Configuration	52/37



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.440	28.20	5.72	39.93	70.71	64.70	74.00	9.30	Peak
2390.040	28.20	5.72	39.93	68.47	62.46	74.00	11.54	Peak
@ 2404.200	28.20	5.74	39.93	114.27	108.28	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.080	28.20	5.72	39.93	47.58	41.57	54.00	12.43	Average
2390.040	28.20	5.72	39.93	47.38	41.37	54.00	12.63	Average
@ 2404.200	28.20	5.74	39.93	105.92	99.93	---	---	Average

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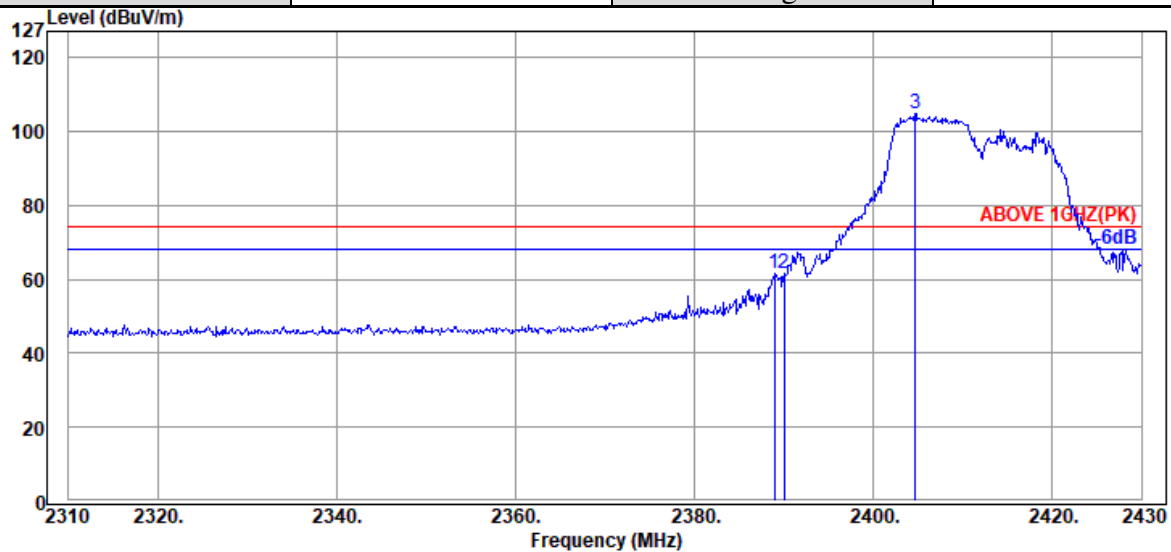
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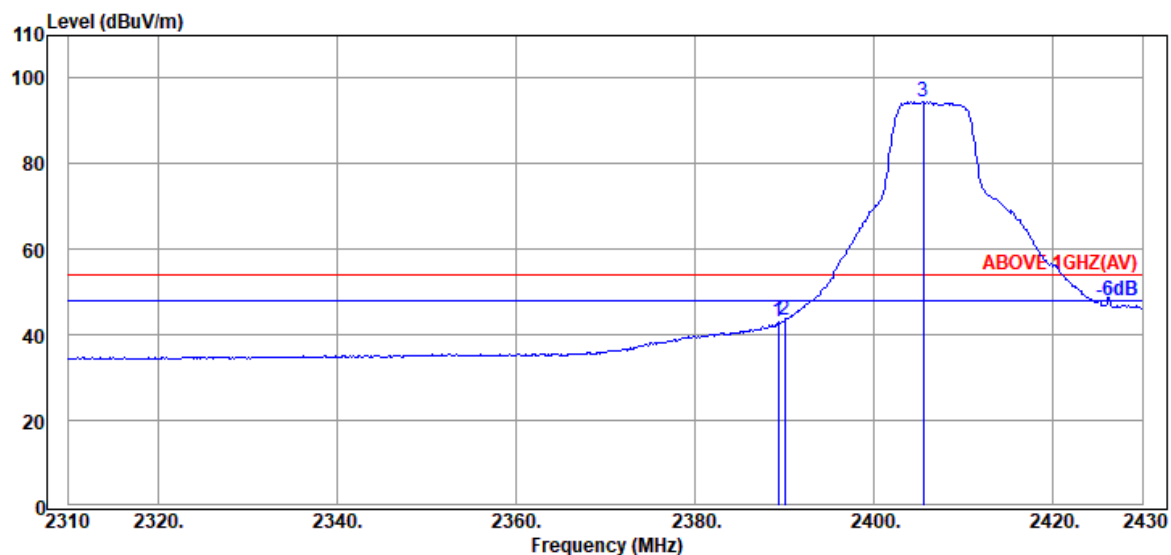
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Mode	802.11ax-HE20	Frequency	TX 2412MHz
		RU Configuration	106/53



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.960	28.20	5.72	39.93	67.37	61.36	74.00	12.64	Peak
2390.040	28.20	5.72	39.93	67.39	61.38	74.00	12.62	Peak
@ 2404.680	28.23	5.75	39.93	110.76	104.81	---	---	Peak



Antenna at Horizontal Polarization

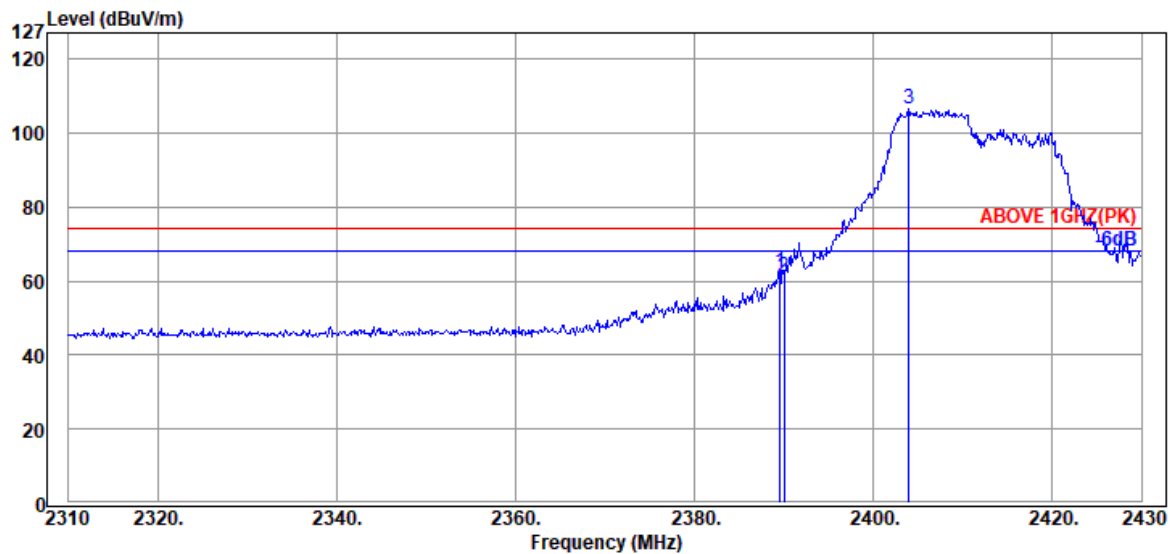
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2389.320	28.20	5.72	39.93	49.00	42.99	54.00	11.01	Average
2390.040	28.20	5.72	39.93	49.47	43.46	54.00	10.54	Average
@ 2405.520	28.23	5.75	39.93	100.60	94.65	---	---	Average

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

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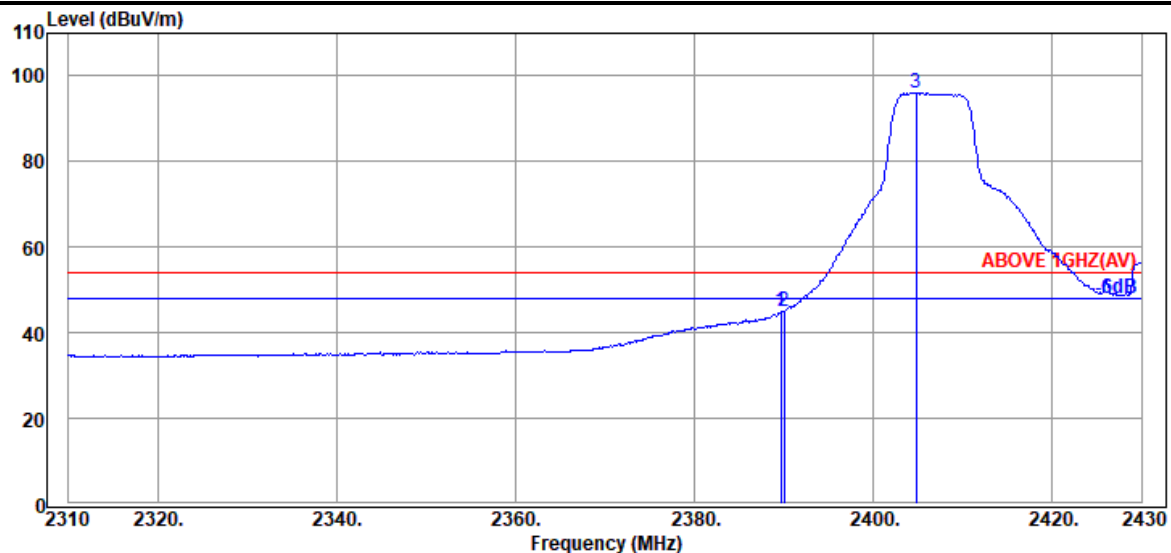
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Mode	802.11ax-HE20	Frequency	TX 2412MHz
		RU Configuration	106/53



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.560	28.20	5.72	39.93	68.39	62.38	74.00	11.62	Peak
2390.040	28.20	5.72	39.93	67.21	61.20	74.00	12.80	Peak
@ 2403.960	28.20	5.74	39.93	112.36	106.37	---	---	Peak



Antenna at Vertical Polarization

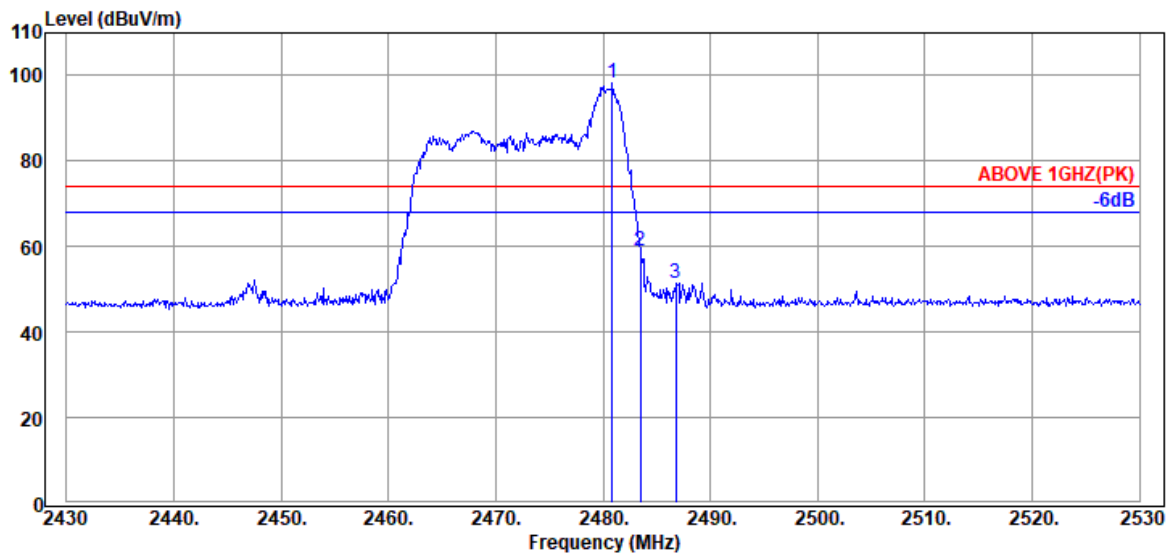
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	28.20	5.72	39.93	51.00	44.99	54.00	9.01	Average
2390.040	28.20	5.72	39.93	50.90	44.89	54.00	9.11	Average
@ 2404.800	28.23	5.75	39.93	102.10	96.15	---	---	Average

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

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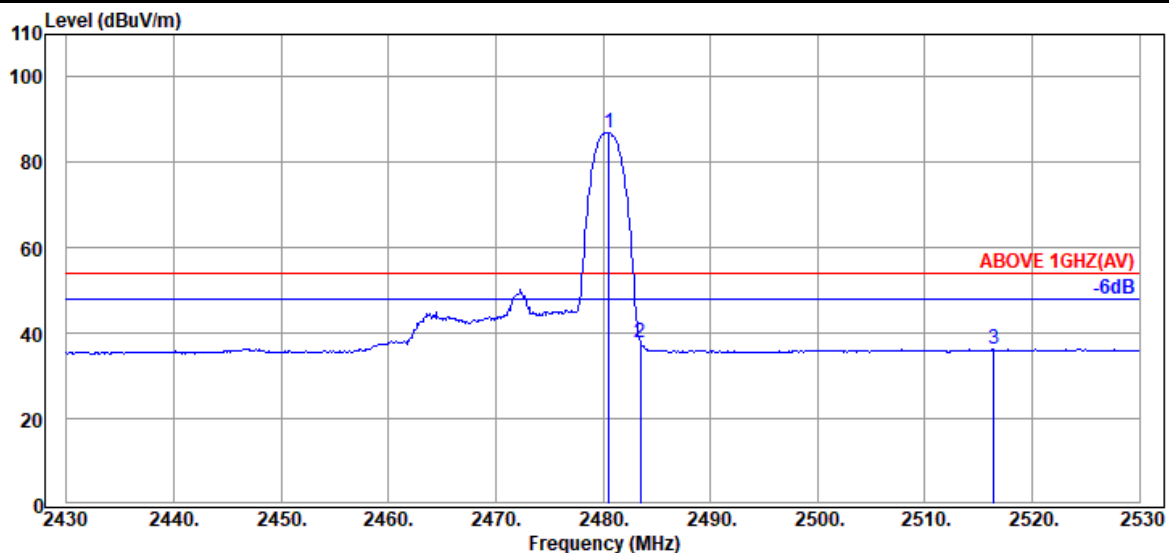
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Fax: +886 2 26099303

Mode	802.11ax-HE20	Frequency	TX 2472MHz
		RU Configuration	26/8



Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.900	28.46	5.86	39.92	103.79	98.19	---	---	Peak
	2483.500	28.47	5.87	39.92	64.71	59.13	74.00	14.87	Peak
	2486.800	28.47	5.87	39.92	57.14	51.56	74.00	22.44	Peak



Antenna at Horizontal Polarization

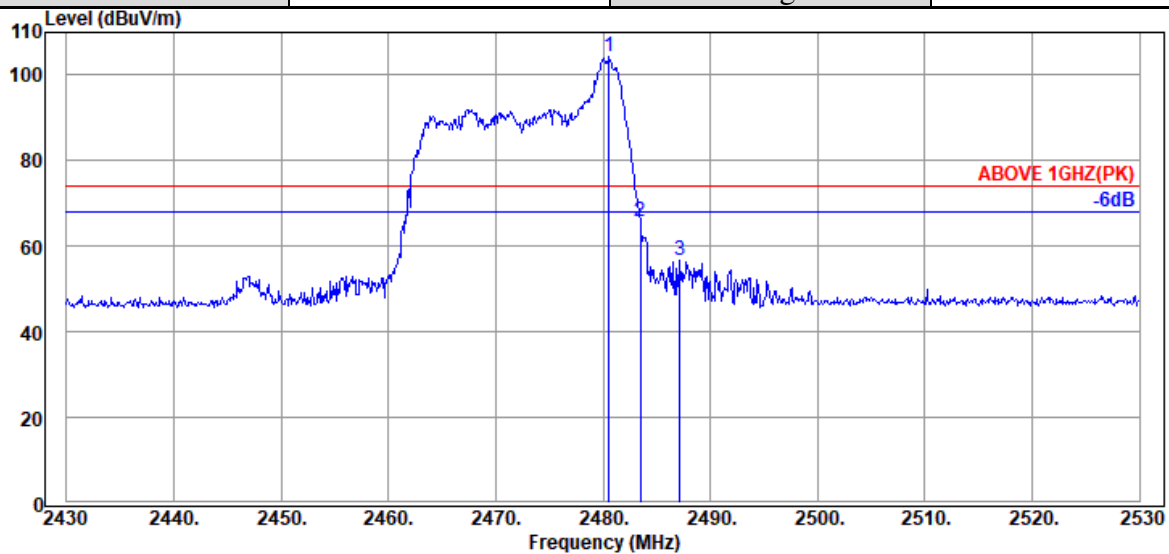
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.600	28.46	5.86	39.92	92.69	87.09	---	---	Average
	2483.500	28.47	5.87	39.92	43.34	37.76	54.00	16.24	Average
	2516.400	28.56	5.93	39.93	41.73	36.29	54.00	17.71	Average

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

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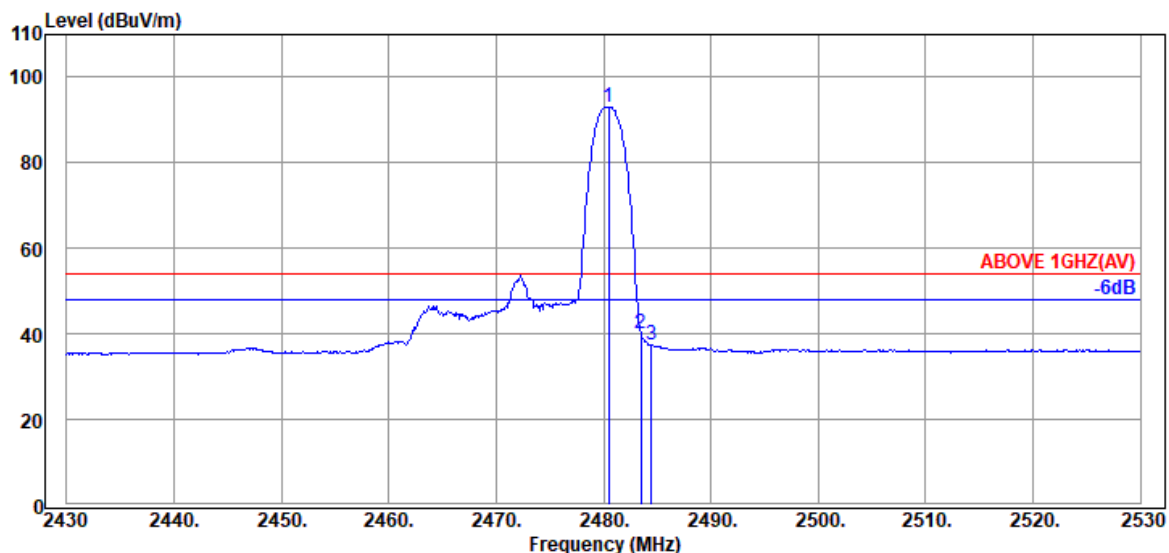
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Mode	802.11ax-HE20	Frequency	TX 2472MHz
		RU Configuration	26/8



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.600	28.46	5.86	39.92	109.82	104.22	---	---	Peak
2483.500	28.47	5.87	39.92	71.17	65.59	74.00	8.41	Peak
2487.200	28.47	5.87	39.92	62.29	56.71	74.00	17.29	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.500	28.46	5.86	39.92	98.74	93.14	---	---	Average
2483.500	28.47	5.87	39.92	45.60	40.02	54.00	13.98	Average
2484.500	28.47	5.87	39.92	43.14	37.56	54.00	16.44	Average

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

File Number: CIM2207002

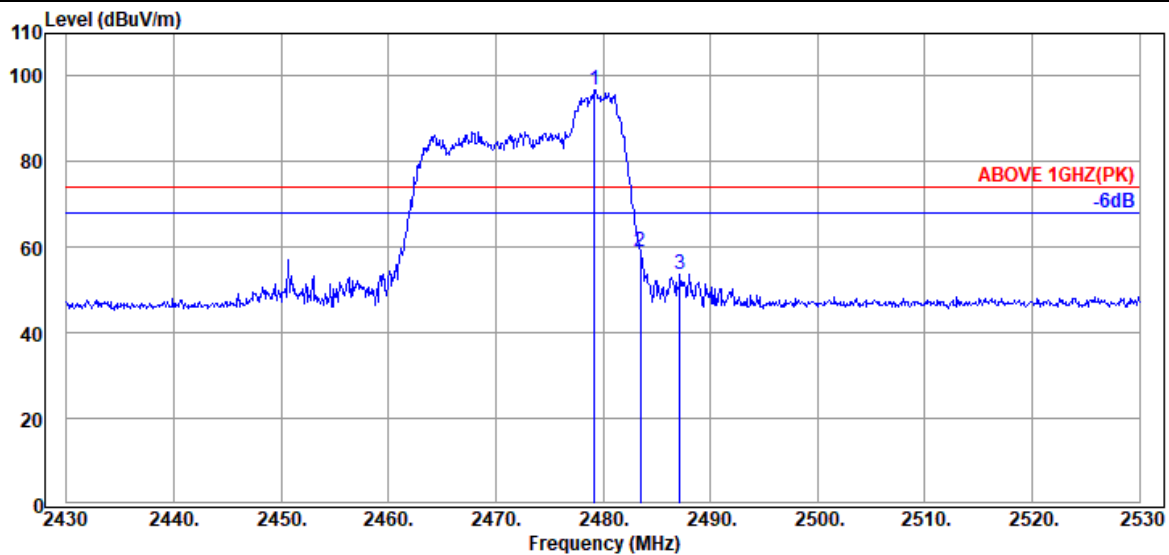
Report Number: EM-F220521

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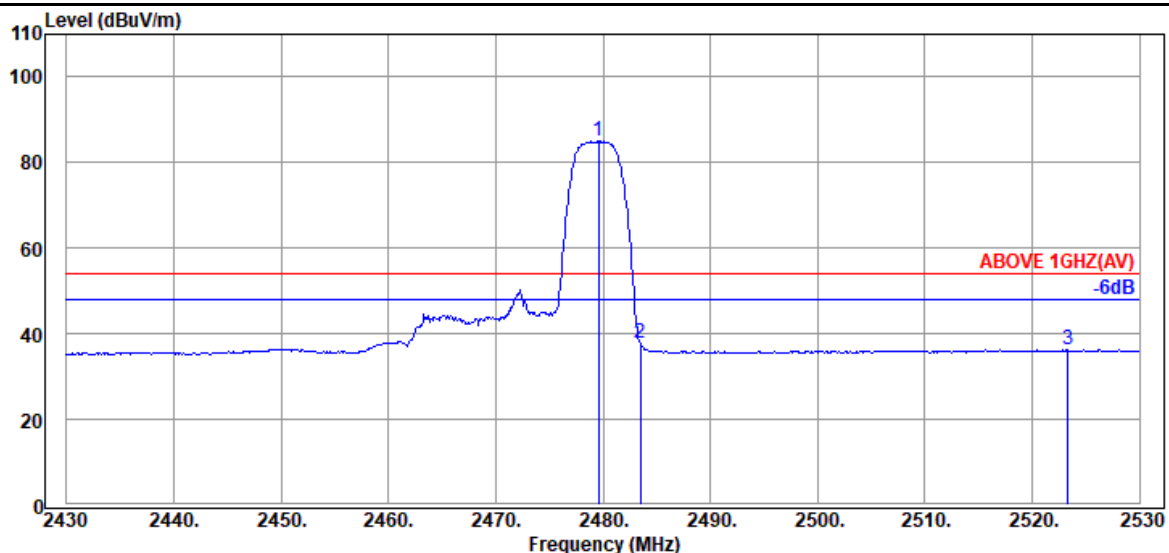
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Mode	802.11ax-HE20	Frequency	TX 2472MHz
		RU Configuration	52/40



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.200	28.46	5.86	39.92	102.51	96.91	---	---	Peak
2483.500	28.47	5.87	39.92	64.43	58.85	74.00	15.15	Peak
2487.200	28.47	5.87	39.92	59.40	53.82	74.00	20.18	Peak



Antenna at Horizontal Polarization

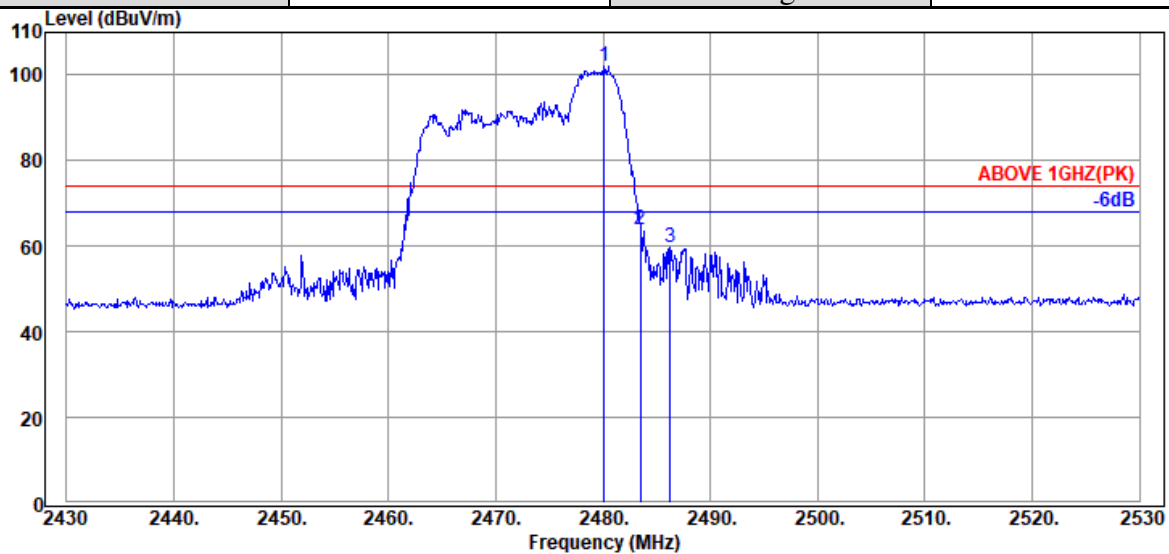
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.600	28.46	5.86	39.92	90.59	84.99	---	---	Average
2483.500	28.47	5.87	39.92	43.37	37.79	54.00	16.21	Average
2523.300	28.59	5.94	39.93	41.67	36.27	54.00	17.73	Average

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

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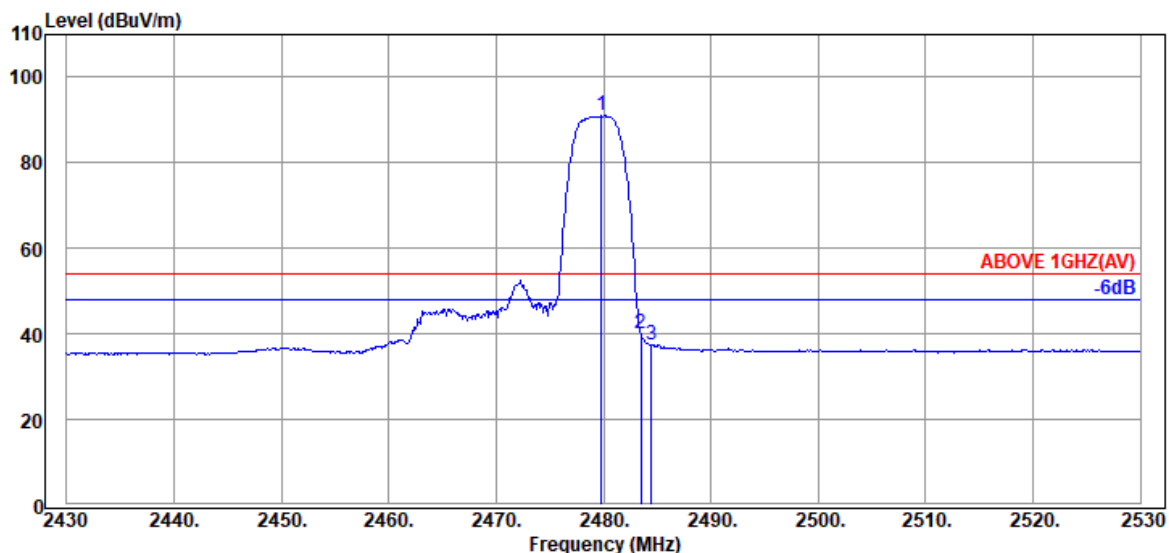
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Fax: +886 2 26099303

Mode	802.11ax-HE20	Frequency	TX 2472MHz
		RU Configuration	52/40



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.100	28.46	5.86	39.92	107.79	102.19	---	---	Peak
2483.500	28.47	5.87	39.92	69.33	63.75	74.00	10.25	Peak
2486.300	28.47	5.87	39.92	65.47	59.89	74.00	14.11	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.800	28.46	5.86	39.92	96.68	91.08	---	---	Average
2483.500	28.47	5.87	39.92	45.59	40.01	54.00	13.99	Average
2484.500	28.47	5.87	39.92	43.13	37.55	54.00	16.45	Average

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

File Number: CIM2207002

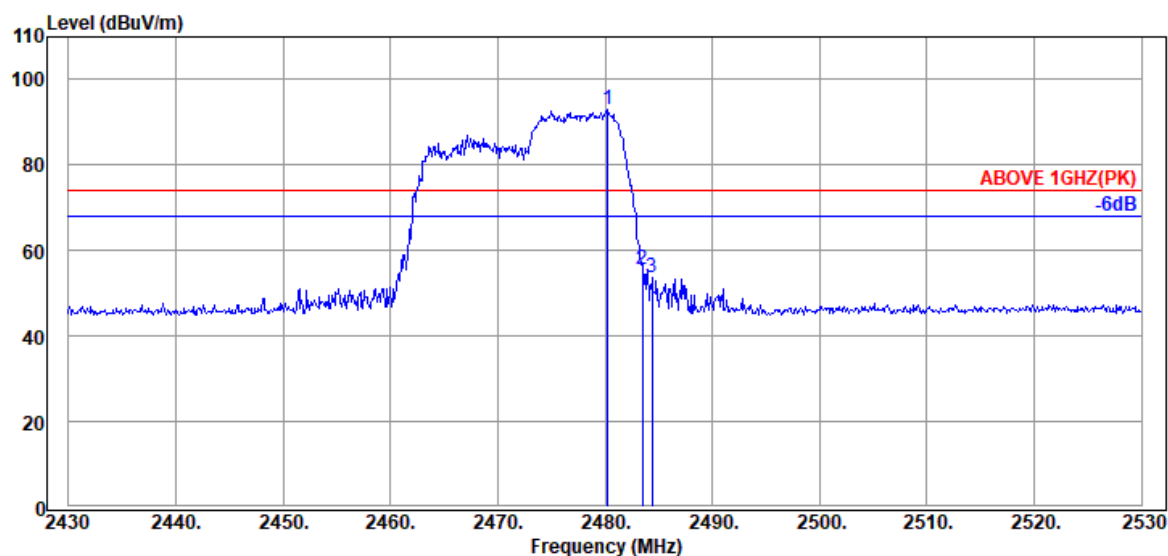
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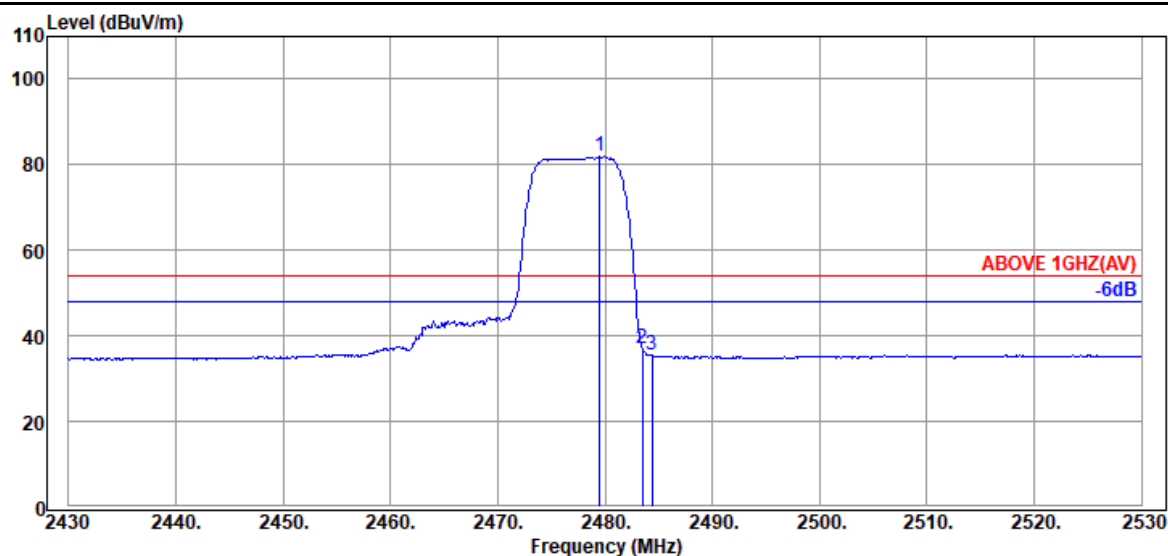
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Mode	802.11ax-HE20	Frequency	TX 2472MHz
		RU Configuration	106/54



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.300	28.46	5.86	39.92	98.51	92.91	---	---	Peak
2483.500	28.47	5.87	39.92	60.97	55.39	74.00	18.61	Peak
2484.400	28.47	5.87	39.92	59.19	53.61	74.00	20.39	Peak



Antenna at Horizontal Polarization

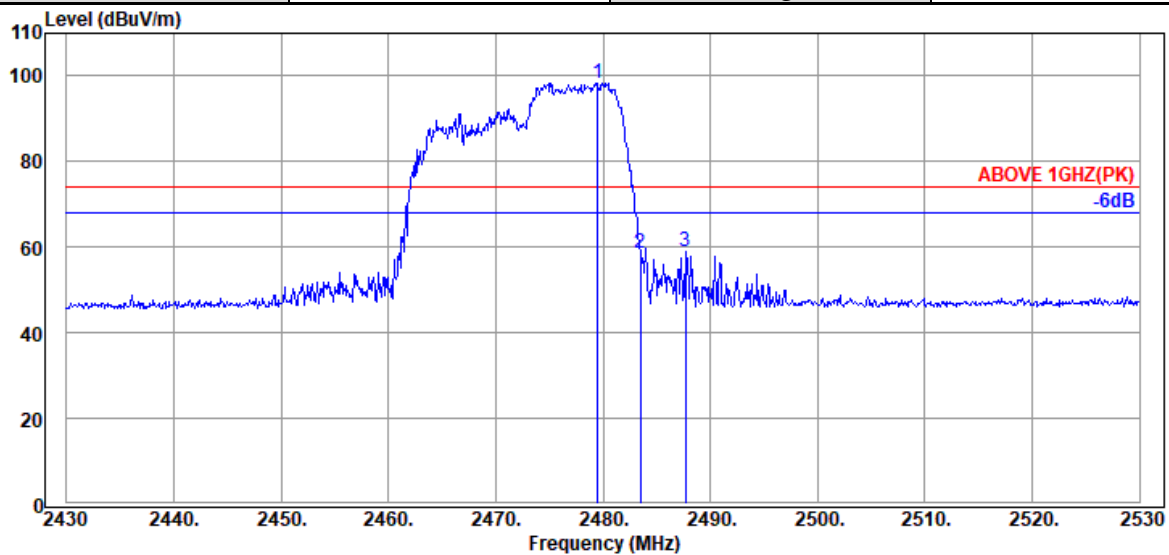
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@ 2479.500	28.46	5.86	39.92	87.65	82.05	---	---	Average
2483.500	28.47	5.87	39.92	42.53	36.95	54.00	17.05	Average
2484.400	28.47	5.87	39.92	41.15	35.57	54.00	18.43	Average

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

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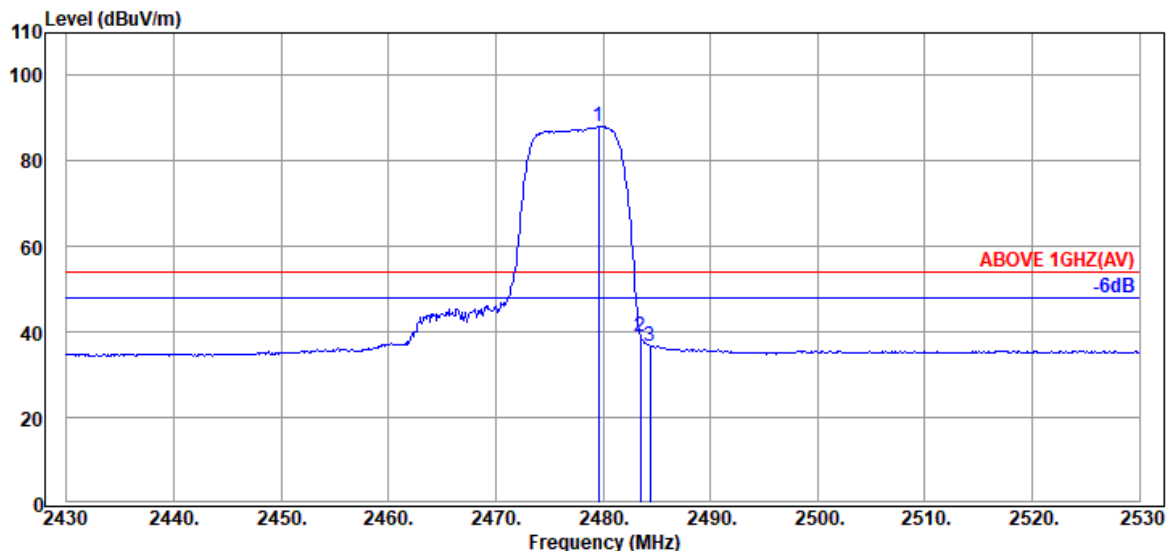
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Mode	802.11ax-HE20	Frequency	TX 2472MHz
		RU Configuration	106/54



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.500	28.46	5.86	39.92	103.98	98.38	---	---	Peak
2483.500	28.47	5.87	39.92	64.24	58.66	74.00	15.34	Peak
2487.700	28.47	5.87	39.92	64.71	59.13	74.00	14.87	Peak



Antenna at Vertical Polarization

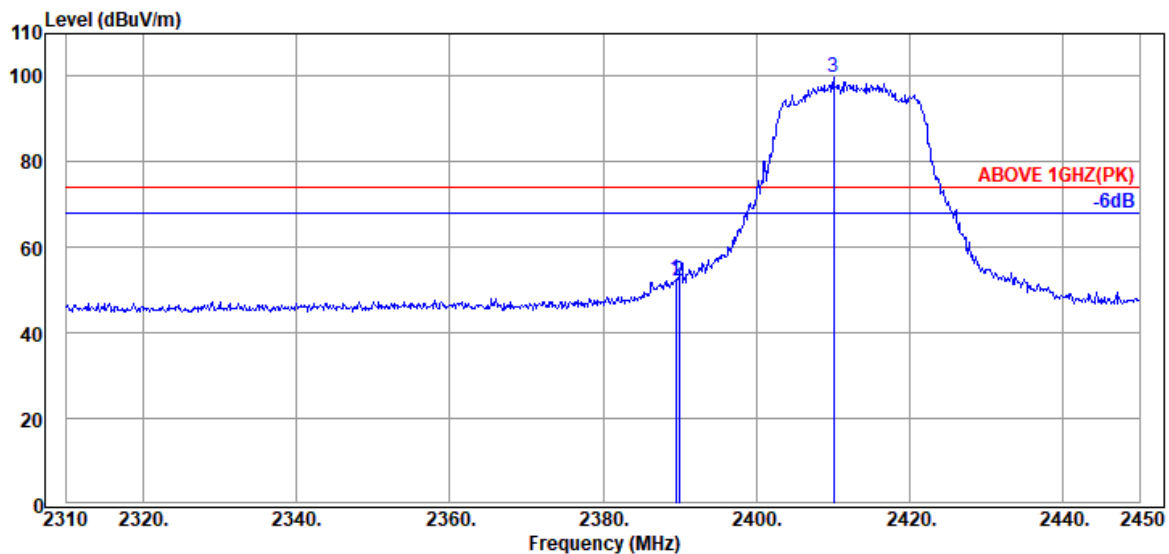
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@ 2479.600	28.46	5.86	39.92	93.61	88.01	---	---	Average
2483.500	28.47	5.87	39.92	44.65	39.07	54.00	14.93	Average
2484.400	28.47	5.87	39.92	42.41	36.83	54.00	17.17	Average

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

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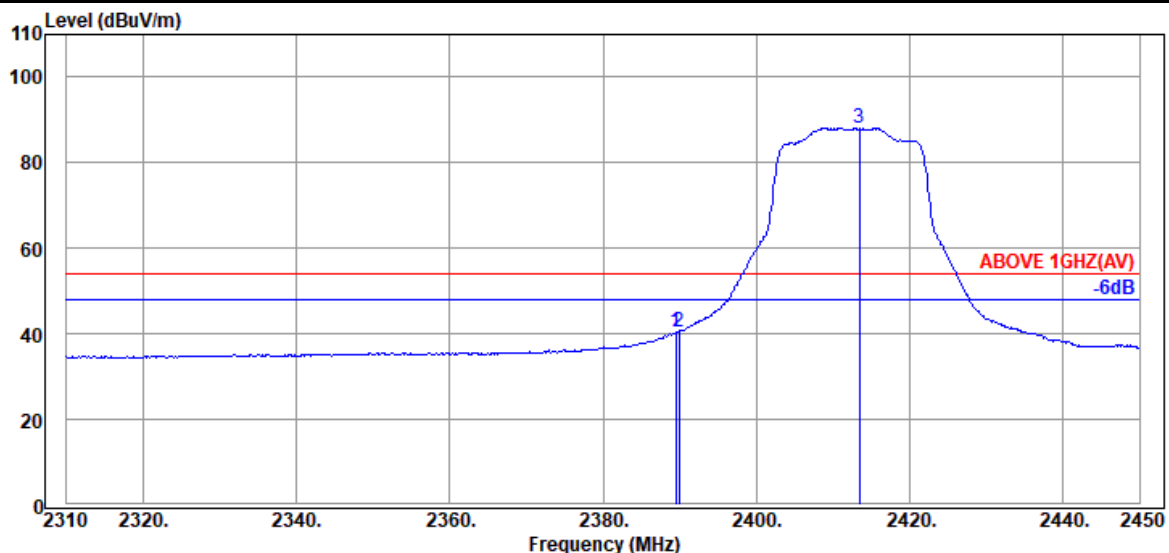
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Mode	802.11ax-HE40	Frequency	TX 2422MHz
		RU Configuration	242/61



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.520	28.20	5.72	39.93	58.55	52.54	74.00	21.46	Peak
2389.940	28.20	5.72	39.93	58.23	52.22	74.00	21.78	Peak
@ 2410.100	28.23	5.75	39.93	105.82	99.87	---	---	Peak



Antenna at Horizontal Polarization

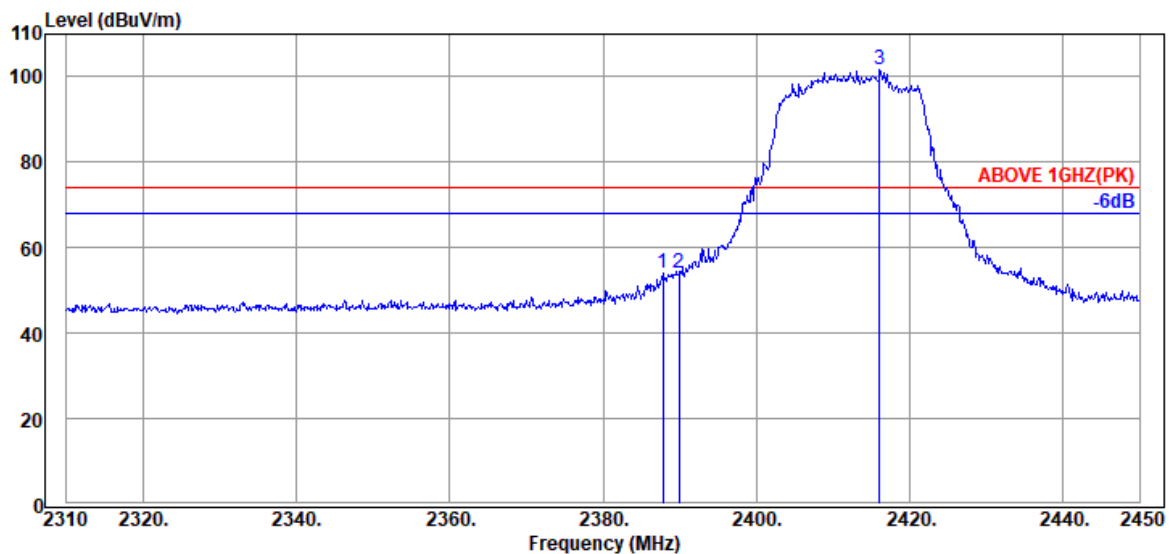
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.520	28.20	5.72	39.93	46.36	40.35	54.00	13.65	Average
2389.940	28.20	5.72	39.93	46.52	40.51	54.00	13.49	Average
@ 2413.460	28.26	5.76	39.93	94.01	88.10	---	---	Average

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

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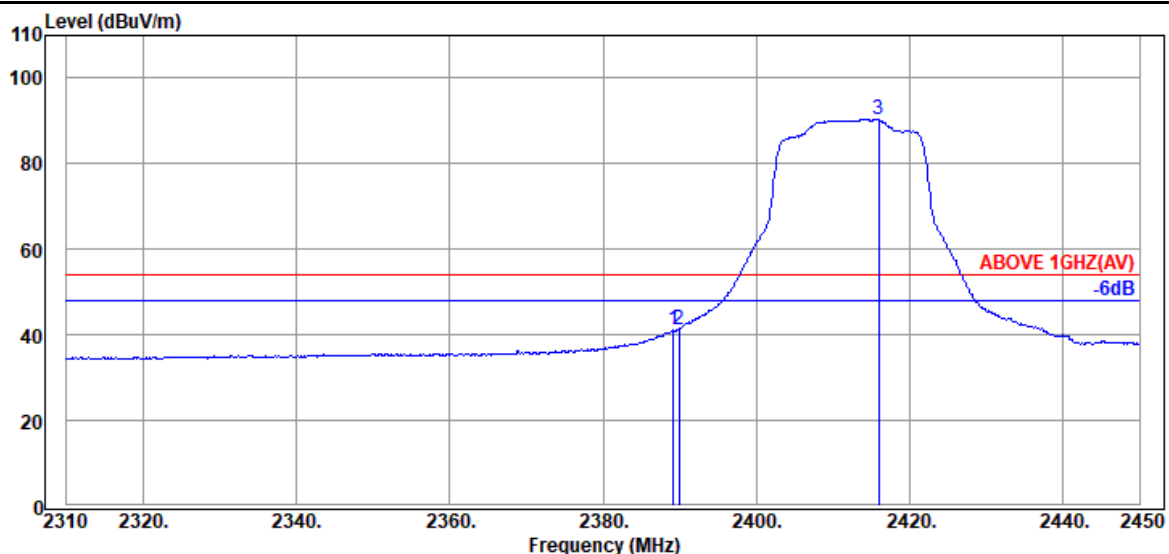
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Mode	802.11ax-HE40	Frequency	TX 2422MHz
		RU Configuration	242/61



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.840	28.20	5.72	39.93	60.04	54.03	74.00	19.97	Peak
2389.940	28.20	5.72	39.93	60.07	54.06	74.00	19.94	Peak
@ 2416.120	28.26	5.76	39.93	107.45	101.54	---	---	Peak



Antenna at Vertical Polarization

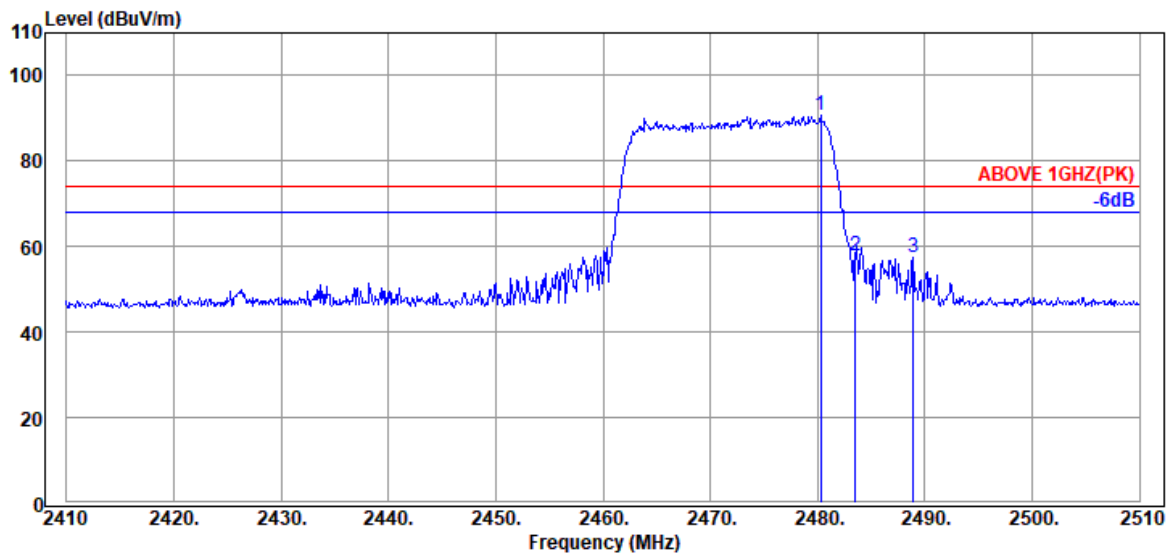
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.240	28.20	5.72	39.93	47.05	41.04	54.00	12.96	Average
2389.940	28.20	5.72	39.93	47.36	41.35	54.00	12.65	Average
@ 2415.980	28.26	5.76	39.93	96.26	90.35	---	---	Average

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

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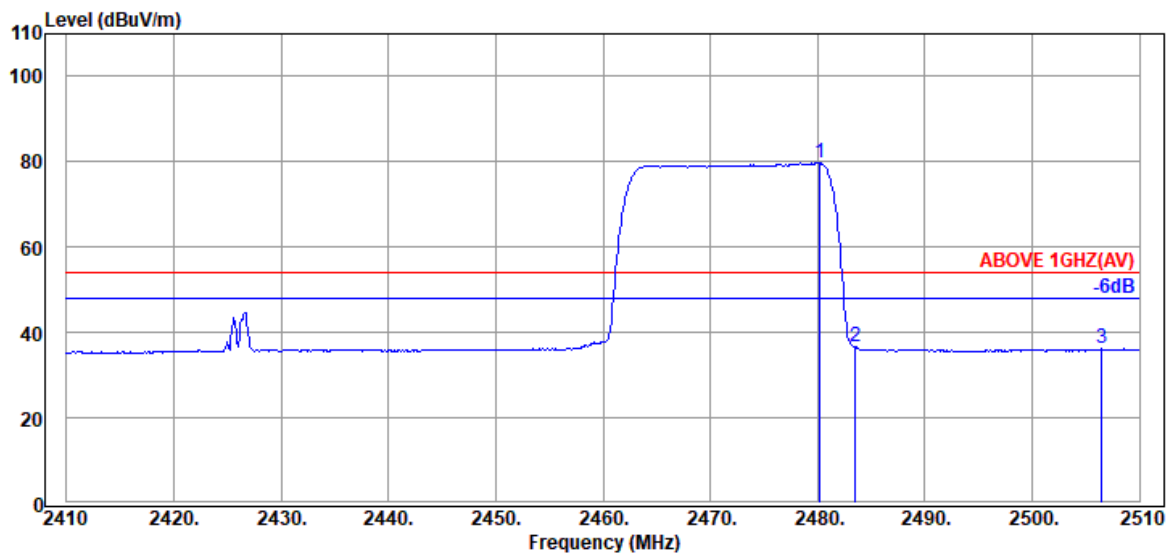
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Mode	802.11ax-HE40	Frequency	TX 2462MHz
		RU Configuration	242/62



Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.300	28.46	5.86	39.92	96.31	90.71	---	---	Peak
	2483.500	28.47	5.87	39.92	63.52	57.94	74.00	16.06	Peak
	2488.900	28.47	5.87	39.92	63.08	57.50	74.00	16.50	Peak



Antenna at Horizontal Polarization

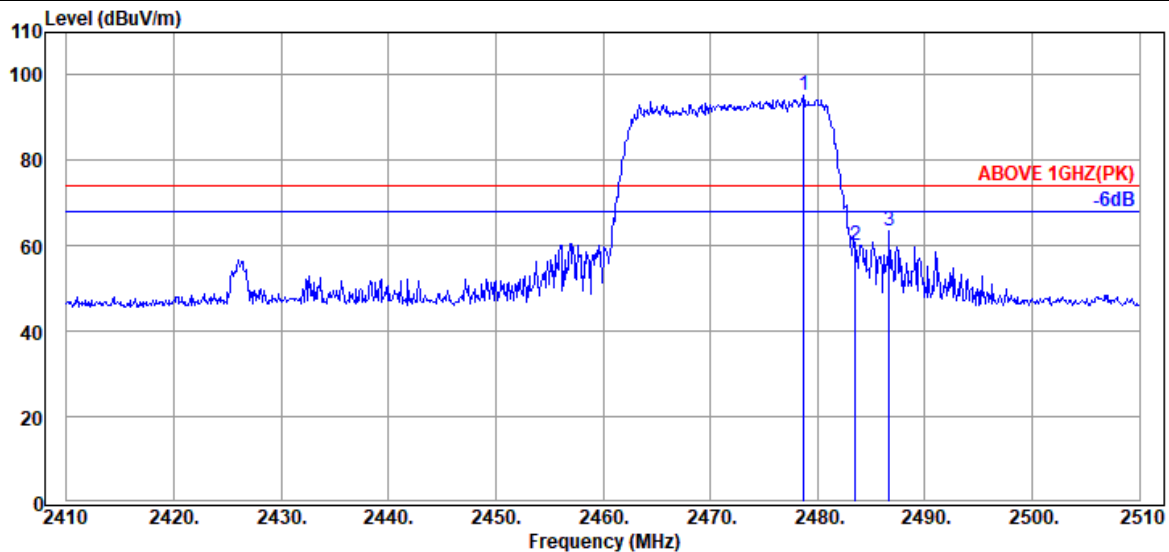
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.200	28.46	5.86	39.92	85.54	79.94	---	---	Average
	2483.500	28.47	5.87	39.92	42.15	36.57	54.00	17.43	Average
	2506.500	28.53	5.91	39.92	41.74	36.26	54.00	17.74	Average

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

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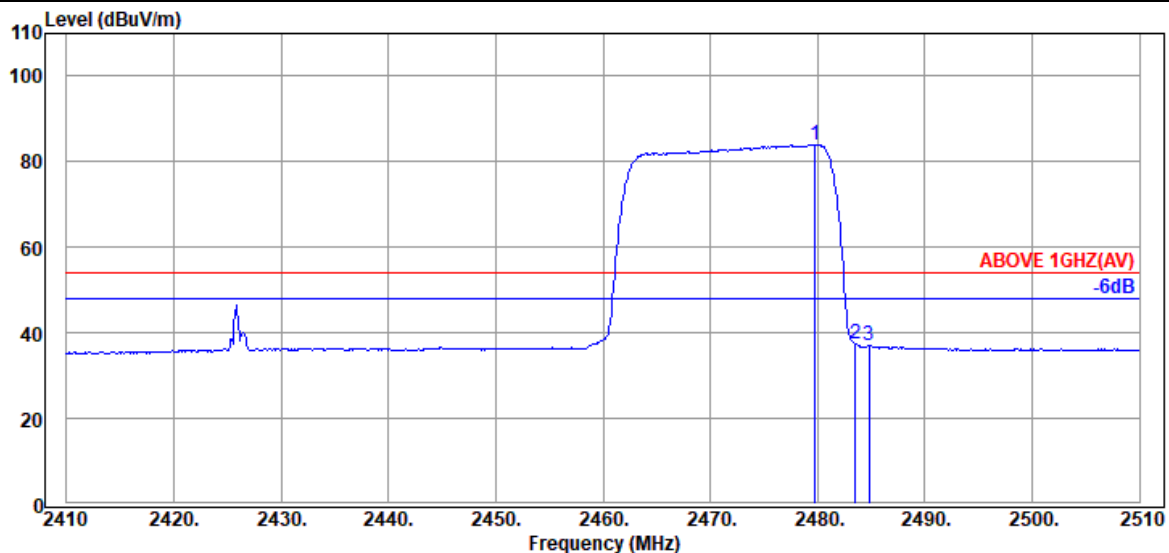
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Mode	802.11ax-HE40	Frequency	TX 2462MHz
		RU Configuration	242/62



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2478.700	28.46	5.86	39.92	100.95	95.35	---	---	Peak
2483.500	28.47	5.87	39.92	65.66	60.08	74.00	13.92	Peak
2486.700	28.47	5.87	39.92	69.19	63.61	74.00	10.39	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.800	28.46	5.86	39.92	89.57	83.97	---	---	Average
2483.500	28.47	5.87	39.92	43.17	37.59	54.00	16.41	Average
2484.800	28.47	5.87	39.92	42.48	36.90	54.00	17.10	Average

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

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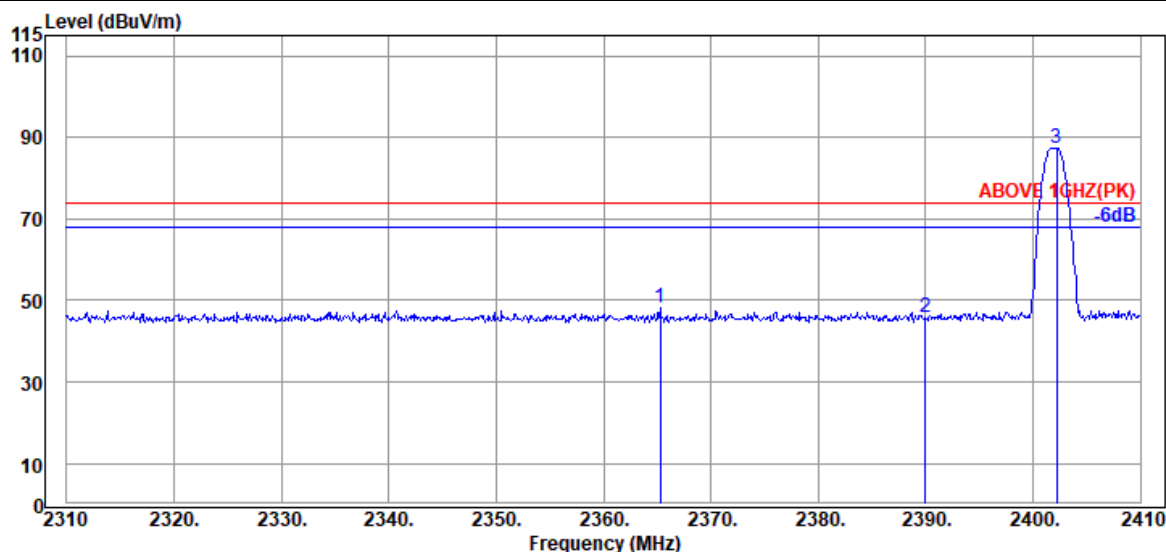
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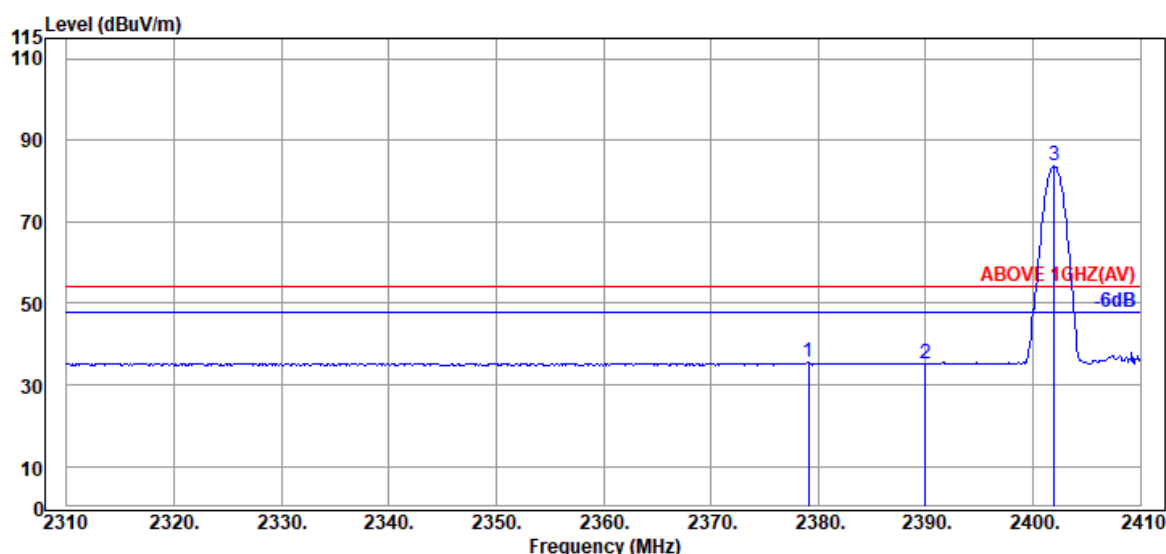
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Mode	BLE (PHY Coded S2)	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2365.300	32.00	8.26	34.50	42.62	48.38	74.00	25.62	Peak
2390.000	32.00	8.27	34.51	39.99	45.75	74.00	28.25	Peak
@ 2402.200	32.00	8.29	34.51	81.66	87.44	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2379.100	32.00	8.27	34.50	29.67	35.44	54.00	18.56	Average
2390.000	32.00	8.27	34.51	29.35	35.11	54.00	18.89	Average
@ 2402.000	32.00	8.29	34.51	78.07	83.85	---	---	Average

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

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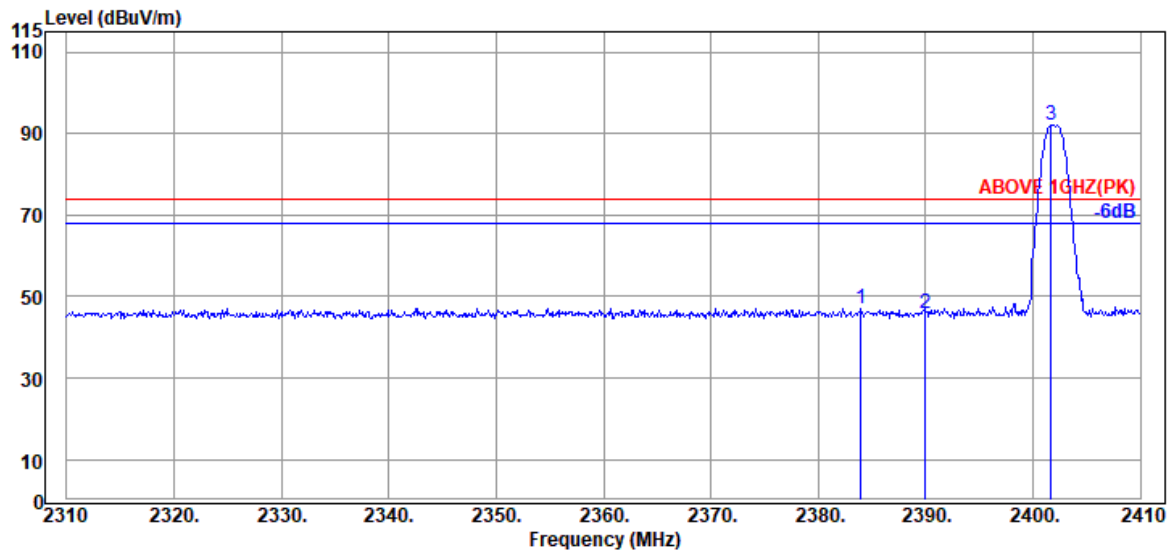
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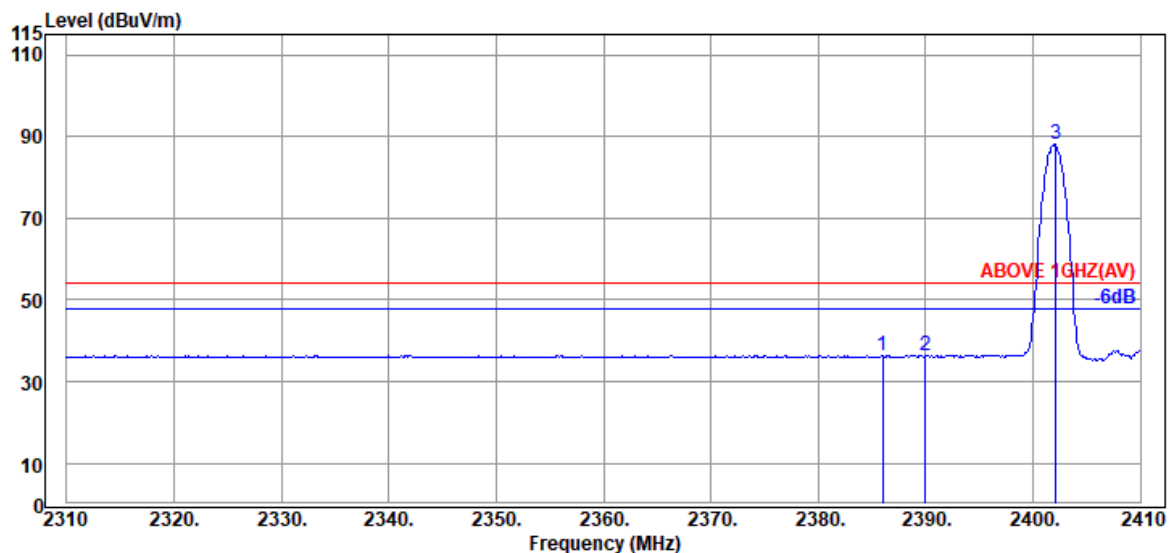
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Mode	BLE (PHY Coded S2)	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2384.000	32.00	8.27	34.51	41.46	47.22	74.00	26.78	Peak
2390.000	32.00	8.27	34.51	40.21	45.97	74.00	28.03	Peak
@ 2401.700	32.00	8.29	34.51	86.17	91.95	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2386.000	32.00	8.27	34.51	30.58	36.34	54.00	17.66	Average
2390.000	32.00	8.27	34.51	30.48	36.24	54.00	17.76	Average
@ 2402.100	32.00	8.29	34.51	82.28	88.06	---	---	Average

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

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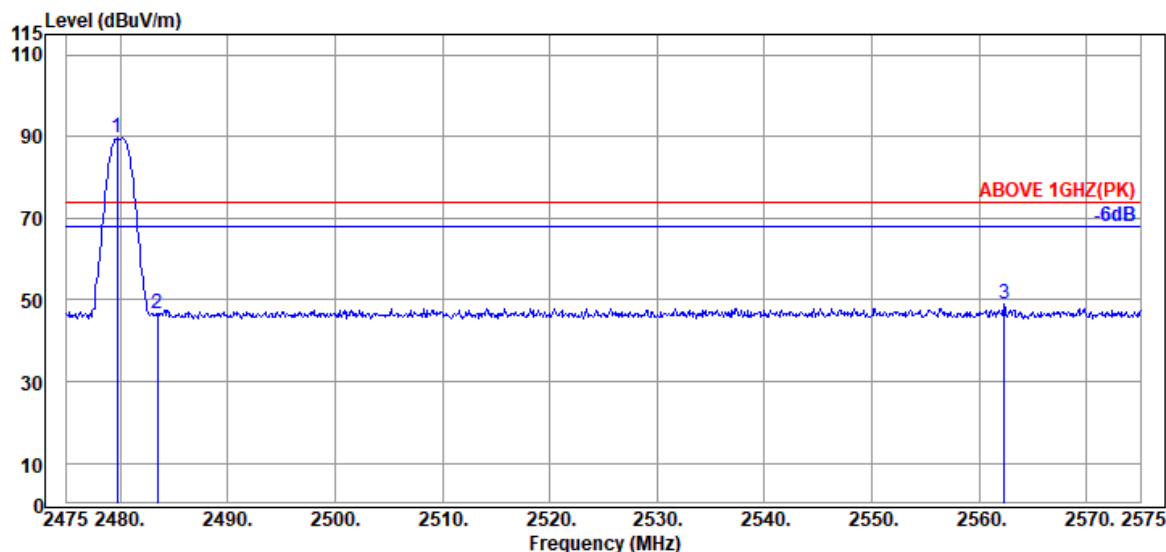
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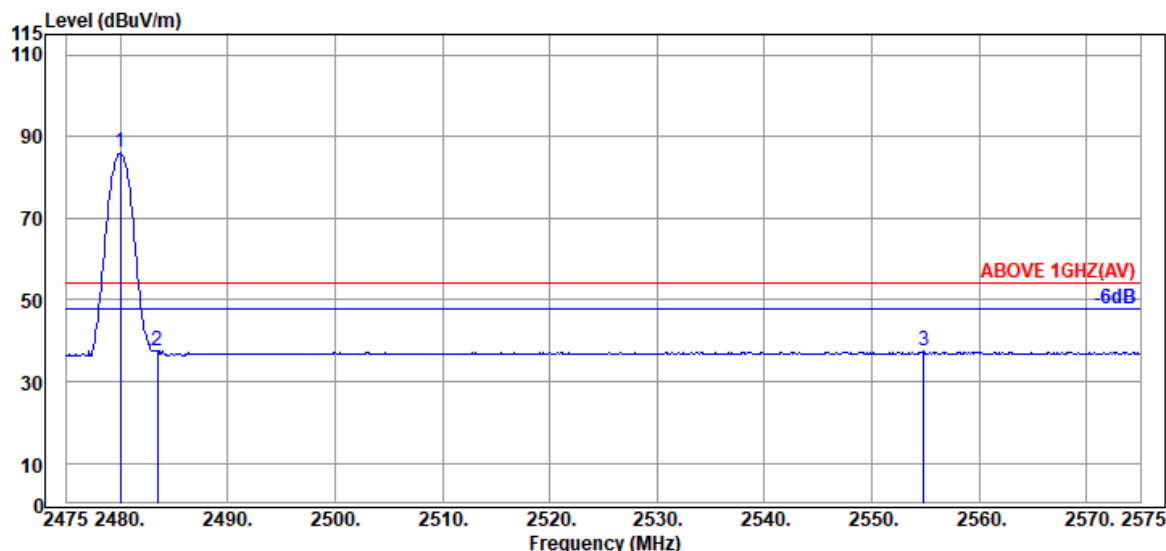
Fax: +886 2 26099303

Mode	BLE (PHY Coded S2)	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.700	32.34	8.36	34.53	83.42	89.59	---	---	Peak
2483.500	32.43	8.36	34.53	40.47	46.73	74.00	27.27	Peak
2562.300	32.37	8.44	34.54	42.62	48.89	74.00	25.11	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.000	32.34	8.36	34.53	79.80	85.97	---	---	Average
2483.500	32.43	8.36	34.53	31.48	37.74	54.00	16.26	Average
2554.800	32.39	8.44	34.54	31.14	37.43	54.00	16.57	Average

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

File Number: CIM2207002

Report Number: EM-F220521

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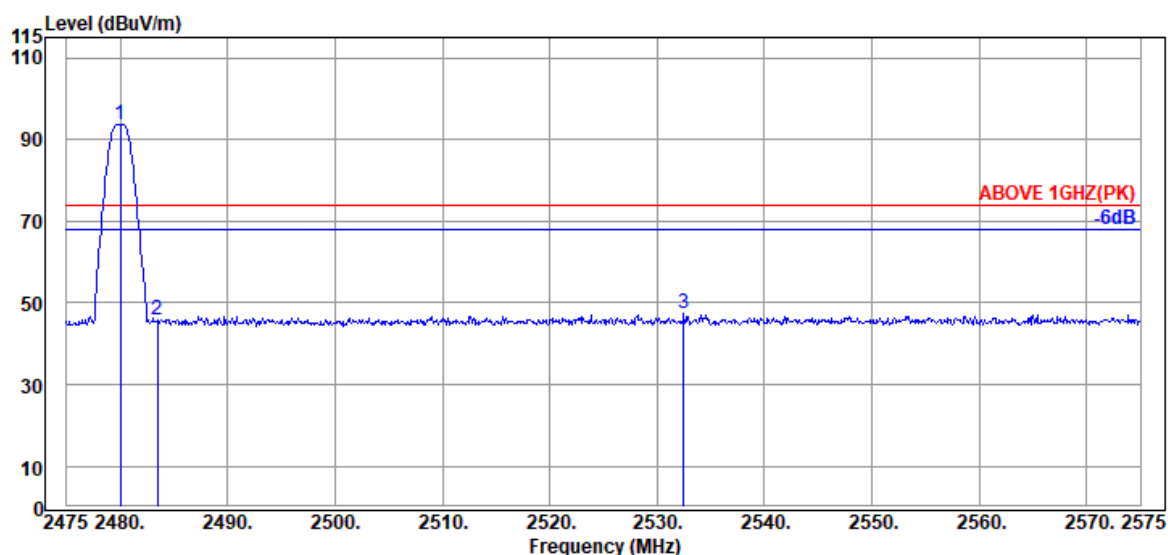
No. 491, Zhongfu Rd., Linkou Dist.,

New Taipei City244, Taiwan

Tel: +886 2 26099301

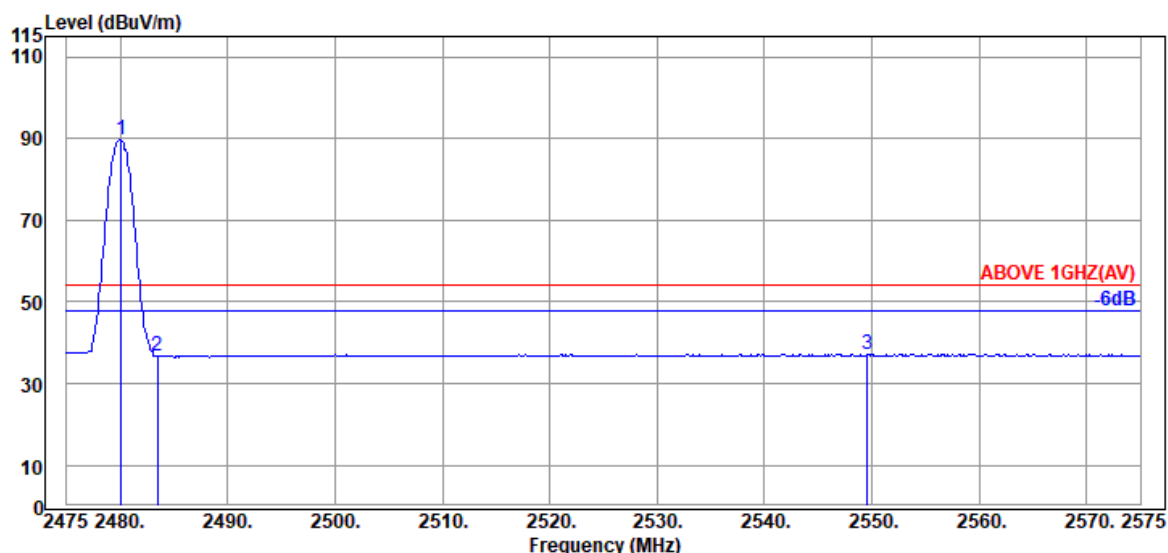
Fax: +886 2 26099303

Mode	BLE (PHY Coded S2)	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.000	32.34	8.36	34.53	87.66	93.83	---	---	Peak
2483.500	32.43	8.36	34.53	39.56	45.82	74.00	28.18	Peak
2532.500	32.49	8.41	34.54	40.87	47.23	74.00	26.77	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.100	32.34	8.36	34.53	83.60	89.77	---	---	Average
2483.500	32.43	8.36	34.53	30.40	36.66	54.00	17.34	Average
2549.600	32.40	8.42	34.54	30.93	37.21	54.00	16.79	Average

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

File Number: CIM2207002

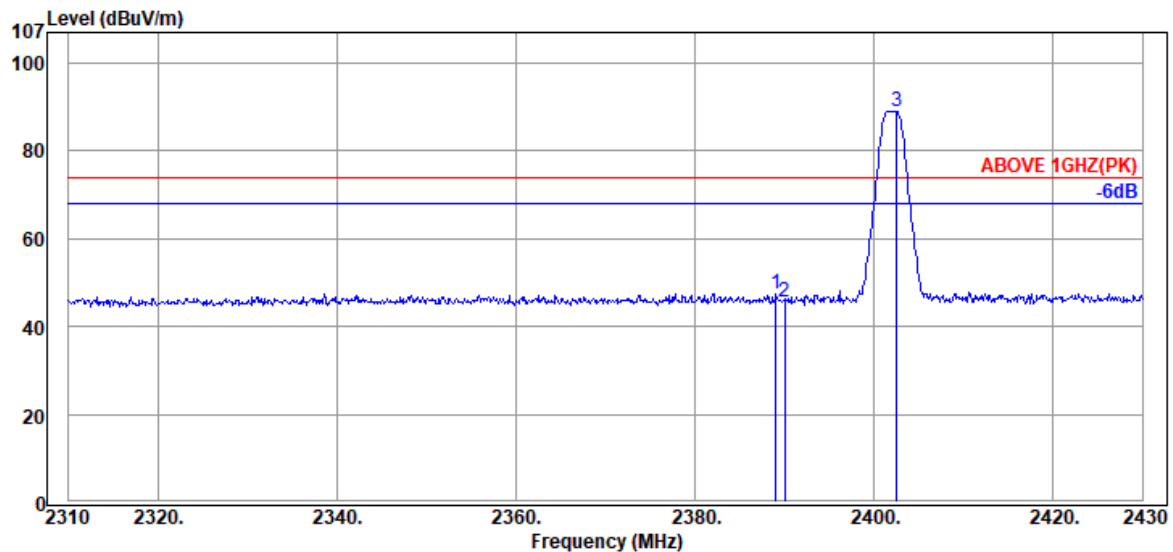
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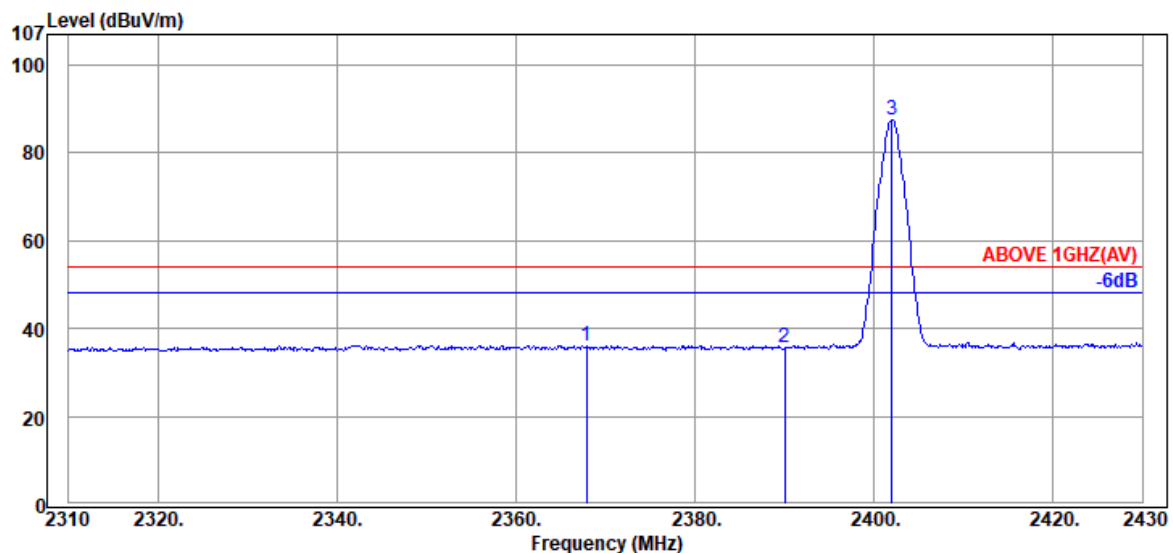
Tel: +886 2 26099301
Fax: +886 2 26099303

Mode	BLE (2Mbps)	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.080	28.20	5.72	39.93	53.60	47.59	74.00	26.41	Peak
2390.040	28.20	5.72	39.93	51.65	45.64	74.00	28.36	Peak
@ 2402.520	28.20	5.74	39.93	95.07	89.08	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2367.840	28.20	5.69	39.93	42.22	36.18	54.00	17.82	Average
2390.040	28.20	5.72	39.93	41.82	35.81	54.00	18.19	Average
@ 2402.040	28.20	5.74	39.93	93.52	87.53	---	---	Average

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

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Report Number: EM-F220521

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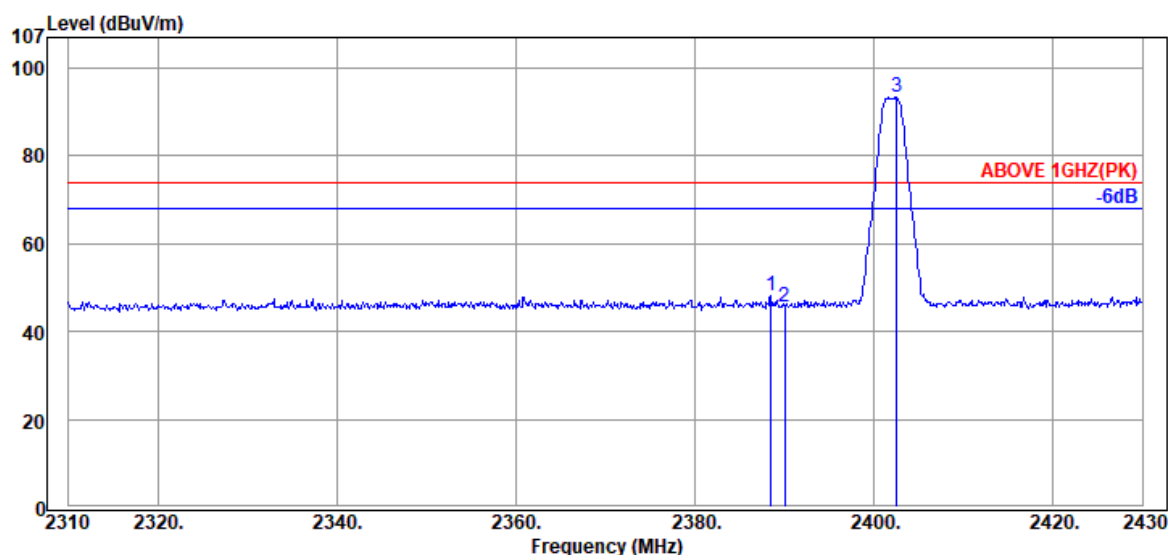
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New Taipei City 244, Taiwan

Tel: +886 2 26099301

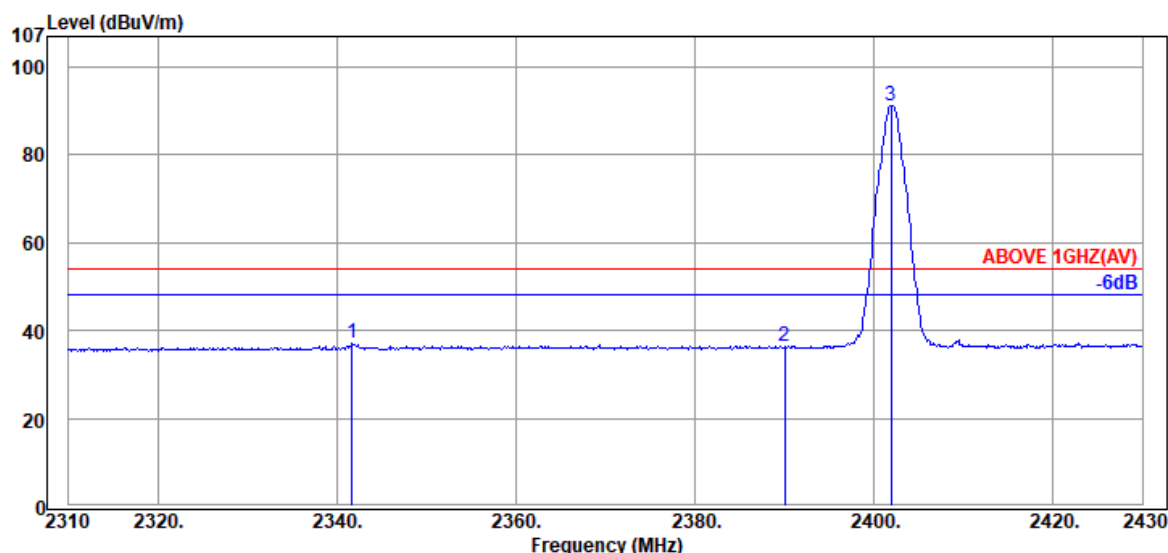
Fax: +886 2 26099303

Mode	BLE (2Mbps)	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.480	28.20	5.72	39.93	54.00	47.99	74.00	26.01	Peak
2390.040	28.20	5.72	39.93	51.43	45.42	74.00	28.58	Peak
@ 2402.520	28.20	5.74	39.93	99.33	93.34	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2341.680	28.12	5.64	39.93	43.24	37.07	54.00	16.93	Average
2390.040	28.20	5.72	39.93	42.42	36.41	54.00	17.59	Average
@ 2401.920	28.20	5.74	39.93	97.29	91.30	---	---	Average

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

File Number: CIM2207002

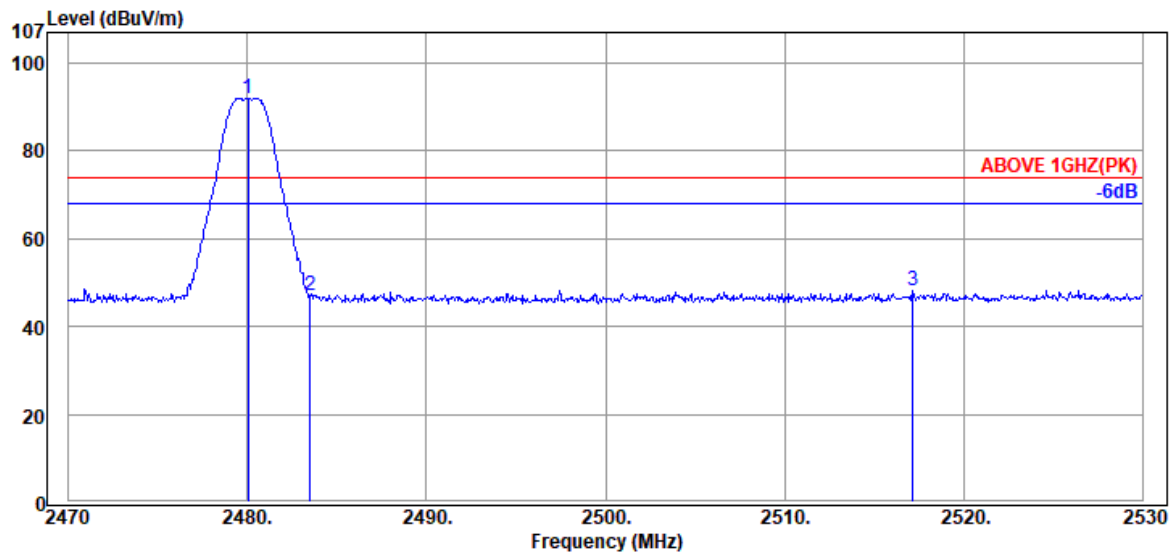
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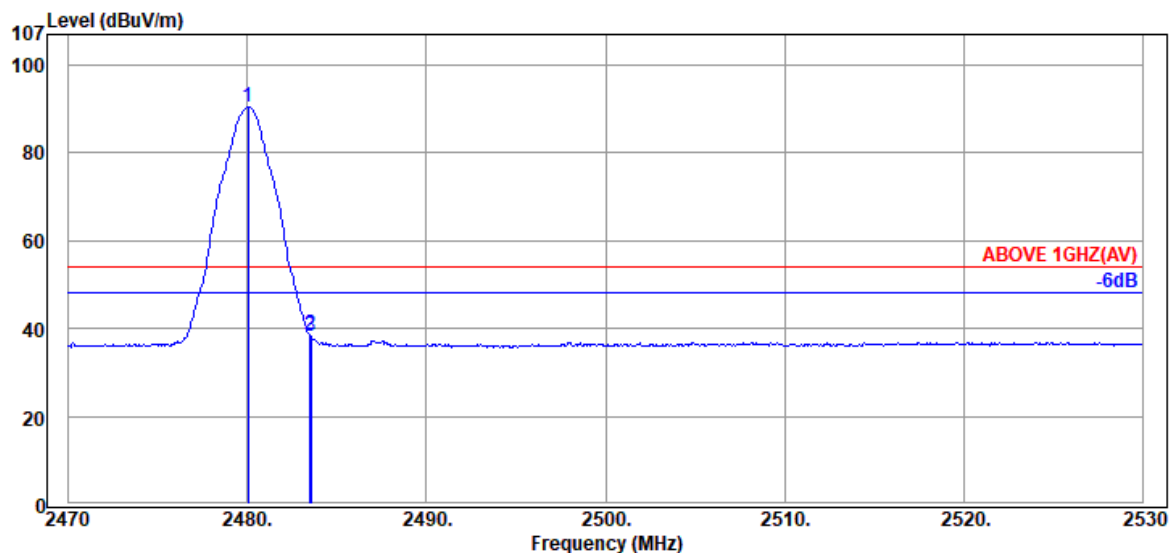
Tel: +886 2 26099301
Fax: +886 2 26099303

Mode	BLE (2Mbps)	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.020	28.46	5.86	39.92	97.63	92.03	---	---	Peak
2483.500	28.47	5.87	39.92	52.56	46.98	74.00	27.02	Peak
2517.160	28.56	5.93	39.93	53.62	48.18	74.00	25.82	Peak



Antenna at Horizontal Polarization

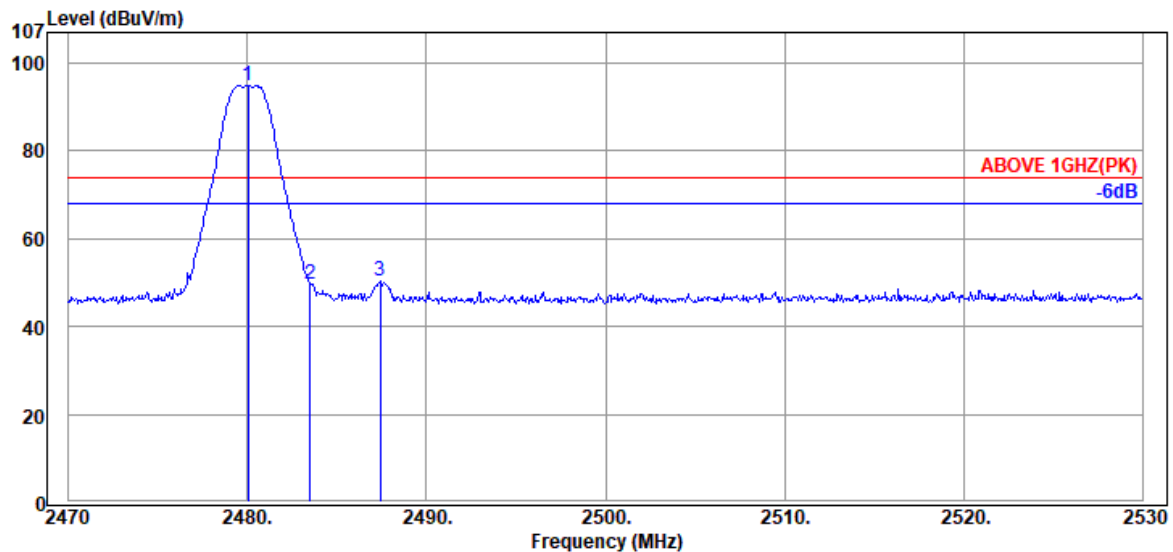
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.020	28.46	5.86	39.92	96.08	90.48	---	---	Average
2483.500	28.47	5.87	39.92	44.09	38.51	54.00	15.49	Average
2483.560	28.47	5.87	39.92	43.64	38.06	54.00	15.94	Average

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

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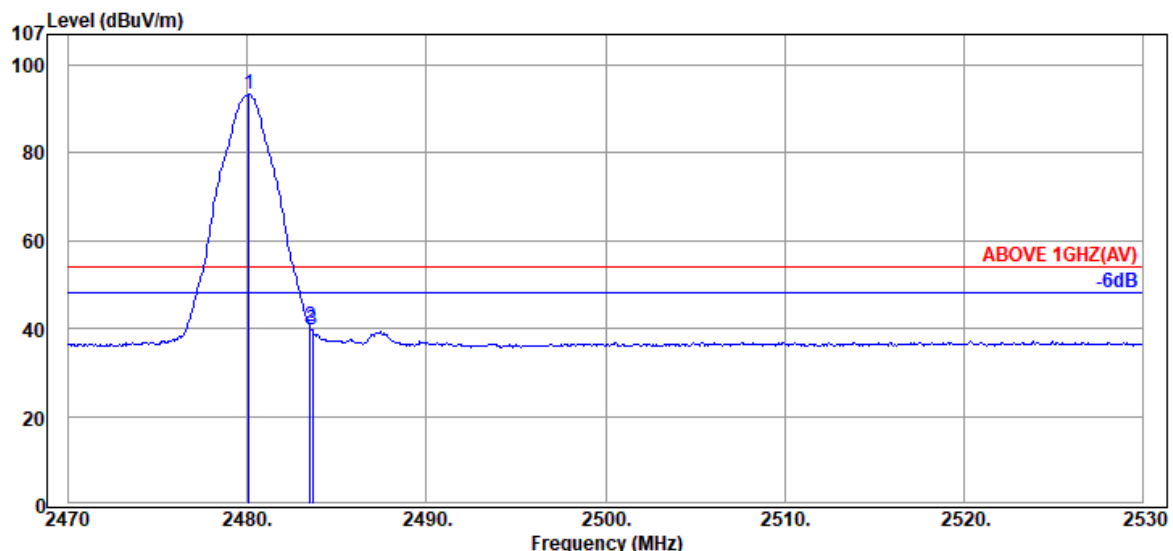
Tel: +886 2 26099301
Fax: +886 2 26099303

Mode	BLE (2Mbps)	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.020	28.46	5.86	39.92	100.48	94.88	---	---	Peak
2483.500	28.47	5.87	39.92	55.21	49.63	74.00	24.37	Peak
2487.400	28.47	5.87	39.92	56.04	50.46	74.00	23.54	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.080	28.46	5.86	39.92	98.91	93.31	---	---	Average
2483.500	28.47	5.87	39.92	45.87	40.29	54.00	13.71	Average
2483.620	28.47	5.87	39.92	45.44	39.86	54.00	14.14	Average

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

A.2.2 Emissions outside the frequency band:

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

Mode	802.11b	Frequency	TX 2442MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.20	8.64	39.35	40.79	43.28	54.00	10.72	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.20	8.64	39.35	41.49	43.98	54.00	10.02	Peak

Mode	802.11g	Frequency	TX 2442MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.20	8.64	39.35	41.36	43.85	54.00	10.15	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.20	8.64	39.35	40.54	43.03	54.00	10.97	Peak

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)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.20	8.64	39.35	40.33	42.82	54.00	11.18	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.20	8.64	39.35	41.92	44.41	54.00	9.59	Peak

Mode	802.11n-HT40	Frequency	TX 2442MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.20	8.64	39.35	40.99	43.48	54.00	10.52	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.20	8.64	39.35	41.26	43.75	54.00	10.25	Peak

Mode	802.11ax-HE20	Frequency	TX 2442MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.20	8.64	39.35	41.25	43.74	54.00	10.26	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.20	8.64	39.35	40.71	43.20	54.00	10.80	Peak

Mode	802.11ax-HE40	Frequency	TX 2442MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.20	8.64	39.35	40.38	42.87	54.00	11.13	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.20	8.64	39.35	41.11	43.60	54.00	10.40	Peak

Mode	BLE (PHY Coded S2)	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	33.10	8.53	39.39	39.99	42.23	54.00	11.77	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	33.10	8.53	39.39	39.83	42.07	54.00	11.93	Peak

Mode	BLE (PHY Coded S2)	Frequency	TX 2440MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4880.000	33.20	8.62	39.35	40.43	42.90	54.00	11.10	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4880.000	33.20	8.62	39.35	39.57	42.04	54.00	11.96	Peak

Mode	BLE (PHY Coded S2)	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.38	8.74	39.31	41.14	43.95	54.00	10.05	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.38	8.74	39.31	40.32	43.13	54.00	10.87	Peak

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A.2.3 Emissions in Non-restricted Frequency Bands:

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