

FCC 15.247 & RSS-247 2.4GHz Test Report

for

Samsung Electronics Co., Ltd.

**129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do,
16677 Republic of Korea**

Product Name : Wi-Fi/BT/Zigbee Transceiver
Model Name : WCHB41M
Brand : SAMSUNG
FCC ID : A3LWCHB41M
IC : 649E-WCHB41M

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



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

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

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

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TEST REPORT

Applicant : Samsung Electronics Co., Ltd.
Manufacturer : Samsung Electronics Co., Ltd.
Factory : #1 CHEMTRONICS Co., Ltd
 #2 CHEMTROVINA COMPANY LIMITED
 #3 SJIT VINA Co., Ltd
 #4 SJIT CO., LTD.
 #5 Chengdu Xuguang Technology Co., Ltd.
 #6 XUGUANG TECHNOLOGY (VIETNAM) COMPANY LIMITED

EUT Description

- (1) Product : Wi-Fi/BT/Zigbee Transceiver
(2) Model : WCHB41M
(3) Brand : SAMSUNG
(4) Power Supply : DC 5V

Applicable Standards:

Title 47 CFR FCC Part 15 Subpart C
RSS-Gen (Issue 5) +A2, February 2021
RSS-247 (Issue 4), July 2025

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: 2025. 12. 09

Reviewed by:



(Sunnie Huang/Administrator)

Approved by:



(Johnny Hsueh/Deputy Manager)



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

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

1. REVISION RECORD OF TEST REPORT

Edition No	Issued Date	Revision Summary	Report Number
0	2025. 12. 09	Original Report	EM-F250673

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

The EUT's information described in this section are all provided by the applicant.

3.1. Description of Application

Applicant	Samsung Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677 Republic of Korea
Manufacturer	Samsung Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677 Republic of Korea
Factory	#1 CHEMTRONICS Co., Ltd 35, Hyeongjero, Namsa-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea #2 CHEMTROVINA COMPANY LIMITED 54-11, Dongtanhana 1-gil, Hwaseong-si, GyeonggiDo, 18423, Republic of Korea #3 SJIT VINA Co., Ltd Lot X2, Ho Nai Industrial Zone, Ho Nai 3 Commune, Trang Bom District, Dong Nai Province, Vietnam #4 SJIT CO., LTD. #54-11, Dongtanhana 1gil, Hwaseong-si, GyeonggiDo, KoreaGuangdong Jingrong Technology Co., Ltd. #5 Chengdu Xuguang Technology Co., Ltd. Building 1, Floors 1-2 and Building 2, Wenbai Avenue No.998, Baihe Street, Economic and Technological Development Zone (Longquanyi District), Chengdu City, Sichuan Province, P.R. China #6 XUGUANG TECHNOLOGY (VIETNAM) COMPANY LIMITED Factory No. 4, Lot CN1, An Duong Industrial Park, Hong Phong Commune, An Duong District, Hai Phong City, Vietnam
Product	Wi-Fi/BT/Zigbee Transceiver
Model	WCHB41M
Brand	SAMSUNG

3.2. Description of EUT

Test Model	WCH941M		
Serial Number	N/A		
Power Rating	DC 5V		
Software Version	WiFi: FC 1 BT: FC 1 Zigbee: FC 1		
RF Features	WLAN: 802.11 a/b/g/n/ac/ax, Bluetooth: BT and BLE (BT 5.4), Zigbee		
Transmit Type	2.4 GHz		
	802.11b	1T1R	
	802.11g	1T1R	
	802.11n-HT20/40	2T2R	
	802.11ax-HE20/40	2T2R	
	BT/BLE	1T1R	
	Zigbee	1T1R	
	U-NII Bands		
	802.11a	1T1R	
	802.11n-HT20/40	2T2R	
	802.11ac-VHT20/40/80	2T2R	
	802.11ax-HE20/40/80	2T2R	
	WLAN 6E Bands		
	802.11a	1T1R	
	802.11ax-HE20/40/80	2T2R	
	The MIMO is uncorrelated and supported SDM (Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).		
Device Category	☐ Outdoor Access Point ☐ Fixed point-to-point Access Point ☐ Indoor Access Point ☒ Mobile and Portable client device		
Sample Status	Trial sample		
Test Sample	Sample No.	Test Item	Firmware
	02	AC Conduction, RSE,	N/A
	01	RF Conducted	N/A
Date of Receipt	2025. 09. 15		
Date of Test	2025. 10. 15 ~ 12. 03		
Interface Ports of EUT	None		
Accessories Supplied	None		

Note: Pursuant ISO 17025:2017 section 7.8.2, Audix Technology Corp. does not assume responsibility for all EUT's information including RF features, transmit type, antenna information...etc are provided by customer.

3.3. Reference Test Guidance

KDB 662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10-2020 & ANSI C63.10-2020 + Cor.1-2023

3.4. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain(dBi)	
					BT 0	BT 1/ Zigbee
1.	WCHB41M	Shenzhen Hanyang Antenna Co., Ltd.	Chip Antenna	2400	-1.23	-1.64
				2410	-1.19	-1.45
				2420	-1.20	-1.27
				2430	-1.26	-1.07
				2440	-1.42	-0.91
				2450	-1.43	-0.81
				2460	-1.54	-0.72
				2470	-1.77	-0.65
				2480	-2.02	-0.51

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain(dBi)	
					ANT 0	ANT 1
2.	WCHB41M	Shenzhen Hanyang Antenna Co., Ltd.	Chip Antenna	2400	-0.44	-2.24
				2410	-0.38	-2.28
				2420	-0.55	-2.33
				2430	-0.66	-2.38
				2440	-0.92	-2.36
				2450	-1.14	-2.2
				2460	-1.23	-2.11
				2470	-1.25	-2.04
				2480	-1.37	-1.88
				5150	-1.01	-1.75
				5250	-0.44	-1.24
				5350	-1.60	-1.87
				5450	-1.92	-1.24
				5550	-1.84	-1.19
				5650	-1.95	-0.03
				5750	-2.46	0.19
				5850	-2.94	-0.10
				5925	-2.89	0.37
				6075	-2.27	0.04
				6225	-1.31	-0.29
				6375	-0.50	-0.31
				6425	-0.70	-0.27
				6675	-0.89	0.13
				6825	-0.08	0.34
				6975	-0.04	-0.70
				7125	-0.73	-1.07

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 =

2400~2500MHz: Directional gain = $10 \log[(10^{-2.88/10} + 10^{-1.23/10})/2] = -1.23$ dBi

Note 2. 5G: Directional gain =

5150 ~ 5250MHz: $= 10 \log[(10^{-1.24/10} + 10^{-0.44/10})/2] = -0.82$ dBi

5250 ~ 5350MHz: $= 10 \log[(10^{-1.24/10} + 10^{-0.44/10})/2] = -0.82$ dBi

5850 ~ 5925MHz: $= 10 \log[(10^{0.37/10} + 10^{-2.89/10})/2] = -0.96$ dBi

Note 3. UNII Band (WLAN 6G):

5925~6375MHz: Directional gain = $10 \log[(10^{-0.31/10} + 10^{0.5/10})/2] = -0.4$ dBi

6375~6525MHz: Directional gain = $10 \log[(10^{-0.31/10} + 10^{0.5/10})/2] = -0.4$ dBi

6525~6825MHz: Directional gain = $10 \log[(10^{0.34/10} + 10^{-0.08/10})/2] = 0.14$ dBi

6975~7125MHz: Directional gain = $10 \log[(10^{-0.7/10} + 10^{-0.04/10})/2] = -0.36$ dBi

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		

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

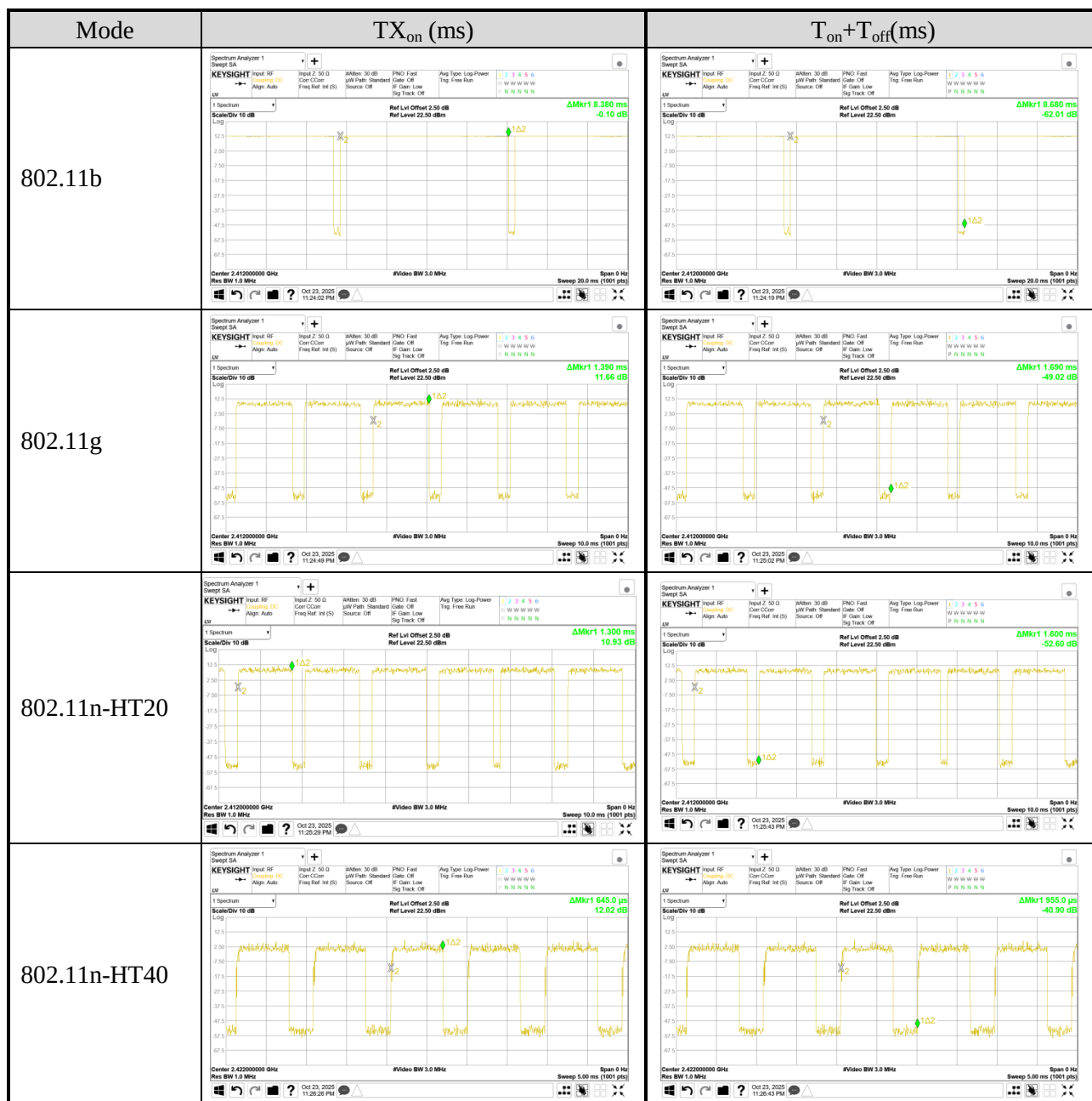
3.6. Description of Key Components

None

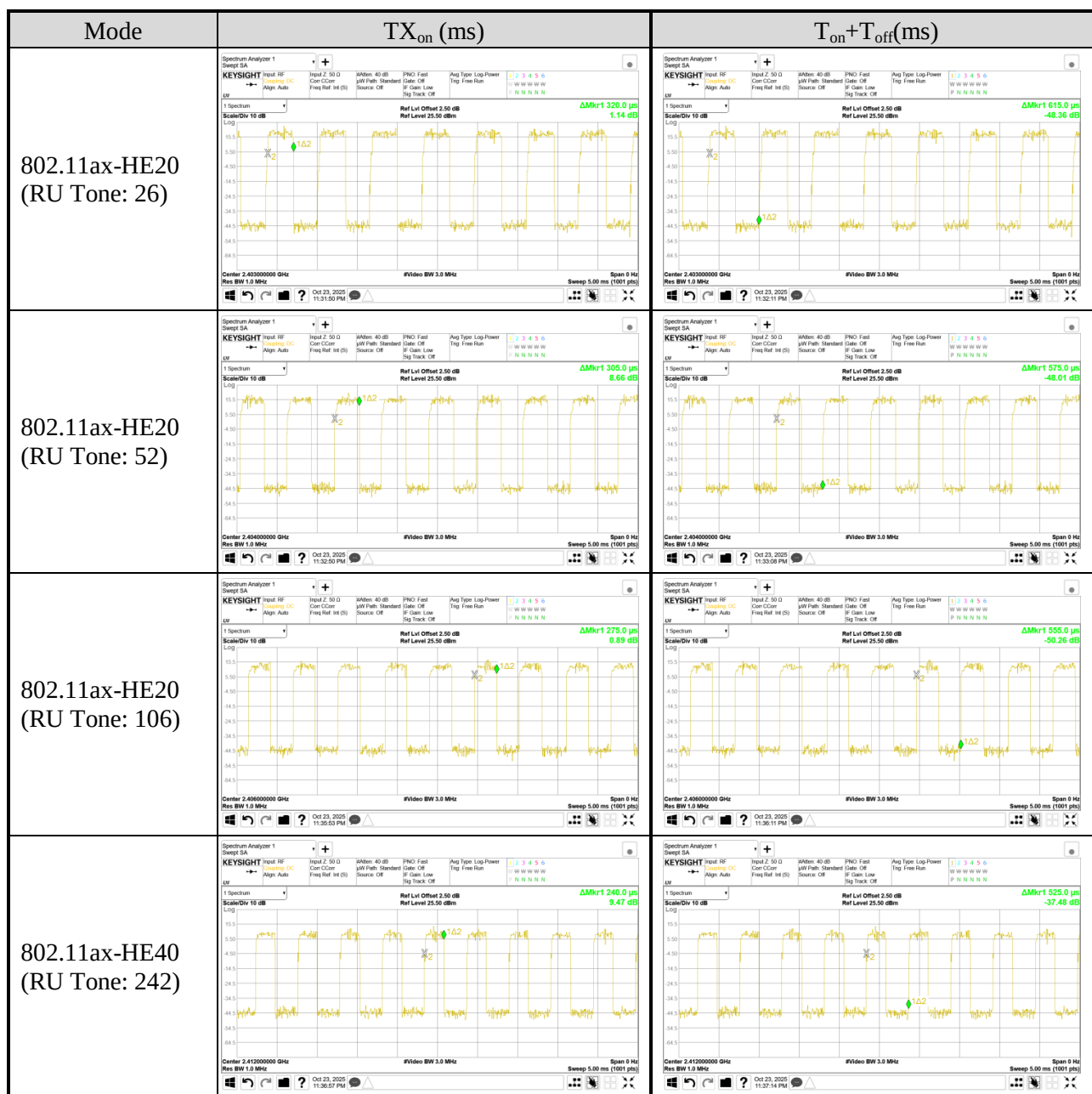
3.7. Test Configuration

Mode		TX _{on} (ms)	TX _{on+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
802.11b		8.38	8.68	0.965	0.155
802.11g		1.39	1.69	0.822	0.851
802.11n-HT20		1.30	1.60	0.813	0.899
802.11n-HT40		0.645	0.955	0.675	1.707
802.11ax-HE20		0.555	0.865	0.642	1.925
802.11ax-HE40		0.325	0.65	0.500	3.010
Mode	RU Tone	TX _{on} (ms)	TX _{on+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
802.11ax-HE20	26	0.320	0.615	0.520	2.840
	52	0.305	0.575	0.530	2.757
	106	0.275	0.555	0.495	3.054
802.11ax-HE40	242	0.240	0.525	0.457	3.401

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.







BLE Mode	T _{Xon} (ms)	T _{Xon+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
1Mbps	2.130	2.490	0.855	0.680
2Mbps	1.070	1.860	0.575	2.401

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.



**Audix Technology Corp.**No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City 244, Taiwan**Tel: +886 2 26099301****Fax: +886 2 26099303**

Item	Mode
AC Conduction Test Case	Normal Operation

Item		Mode	RU Tone	Data Rate	Test Channel	
Radiated Test Case	Radiated Spurious Emission (30MHz~1GHz) ^{Note 1,2}	802.11ax-HE20	---	MCS8	1	
		BLE		PHY Coded S2	39	
Radiated Test Case	Radiated Band Edge ^{Note1}	802.11b	---	1Mbps	1/11/12/13	
		802.11g	---	6Mbps	1/11/12/13	
		802.11n-HT20	---	MCS8	1/11/12/13	
		802.11n-HT40	---	MCS8	3/9/10/11	
		802.11ax-HE20	---	HE0	1/11/12/13	
		802.11ax-HE40	---	HE0	3/9/10/11	
		802.11ax-HE20	26/0	HE0	1	
			52/37	HE0	1	
			106/53	HE0	1	
			26/8	HE0	13	
			52/40	HE0	13	
			106/54	HE0	13	
		802.11ax-HE40	242/61	HE0	3	
			242/62	HE0	11	
		BLE			1Mbps	37/39
		Radiated Spurious Emission ^{Note1 & 2}	802.11b	---	1Mbps	7
			802.11g	---	6Mbps	13
			802.11n-HT20	---	MCS8	13
	802.11n-HT40		---	MCS8	6	
	802.11ax-HE20		---	HE0	13	
	802.11ax-HE40		---	HE0	6	
	BLE			1Mbps	37/17/39	

Item		Mode	RU Tone	RU Tone	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	1/2/7/11/12/13
		802.11g	---	6Mbps	1/7/11/12/13
		802.11n-HT20	---	MCS8	1/7/11/12/13
		802.11n-HT40	---	MCS8	3/4/7/9/10/11
		802.11ax-HE20	---	HE0	1/7/11/12/13
		802.11ax-HE40	---	HE0	3/4/7/9/10/11
		802.11ax-HE20	26/0	HE0	1
			52/37	HE0	1
			106/53	HE0	1
			26/8	HE0	13
			52/40	HE0	13
			106/54	HE0	13
		802.11ax-HE40	242/61	HE0	3
			242/62	HE0	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	1/13
		802.11n-HT20	---	MCS8	1/11/13
		802.11n-HT40	---	MCS8	3/11
		802.11ax-HE20	---	HE0	1/13
		802.11ax-HE40	---	HE0	3/11
		BLE		2Mbps	37/17/39

Item		Mode	RU Tone	RU Tone	Test Channel
Conducted Test Case	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
		802.11ax-HE20	26/0	HE0	1
			52/37	HE0	1
			106/53	HE0	1
			26/8	HE0	13
			52/40	HE0	13
			106/54	HE0	13
		802.11ax-HE40	242/61	HE0	3
			242/62	HE0	11
		BLE		2Mbps	37/17/39

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 data rates were selected based on preliminary testing that identified rate as the worst case for output power.

3.8. Output Power Setting

Mode (SISO)					
802.11b			802.11g		
Power Setting			Power Setting		
Centre Frequency (MHz)	ANT 0	ANT 1	Centre Frequency (MHz)	ANT 0	ANT 1
2412	17.000	17.000	2412	12.500	12.500
2417	16.000	16.000	2442	12.500	12.500
2442	16.000	16.000	2462	12.500	12.500
2462	16.000	16.000	2467	12.500	12.500
2467	16.000	16.000	2472	12.500	12.500
2472	15.000	15.000	--	--	--

Centre Frequency (MHz)	Mode (MIMO)			
	802.11n-HT20		802.11ax-HE20	
	Power Setting		Power Setting	
	ANT 0	ANT 1	ANT 0	ANT 1
2412	11.500	11.500	13.000	13.000
2442	11.500	11.500	13.000	13.000
2462	11.500	11.500	13.000	13.000
2467	11.500	11.500	13.000	13.000
2472	11.500	11.500	13.000	13.000

Centre Frequency (MHz)	Mode (MIMO)			
	802.11n-HT40		802.11ax-HE40	
	Power Setting		Power Setting	
	ANT 0	ANT 1	ANT 0	ANT 1
2422	14.000	14.000	12.000	12.000
2442	14.000	14.000	12.000	12.000
2447	14.000	14.000	12.000	12.000
2452	14.000	14.000	12.000	12.000
2457	14.000	14.000	12.000	12.000
2462	14.000	14.000	12.000	12.000

Centre Frequency (MHz)	Mode							
	BLE							
	1Mbps		2Mbps		PHY Coded S2		PHY Coded S8	
	Power Setting		Power Setting		Power Setting		Power Setting	
	BT 0	BT 1	BT 0	BT 1	BT 0	BT 1	BT 0	BT 1
2402	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000
2440	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000
2480	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

3.9. Tested Supporting System List

3.9.1. Support Peripheral Unit

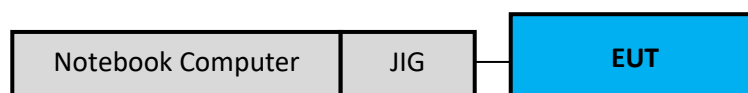
No.	Product	Brand	Model No.	Serial No.	Approval
1	Notebook Computer	acer	MS2343	N/A	N/A
2	JIG	N/A	N/A	N/A	N/A

3.9.2. Cable Lists

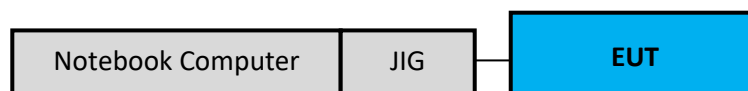
No.	Cable Description Of The Above Support Units
1	Bus Cable: Unshielded, Undetachable, 0.1 m

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 “QA Tool” for WiFi and “WCN Combo Tool” for BT is used for enabling EUT RF function under continues transmitting and choosing data rate/ channel.

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.7 Shielded Room (2) No.1 3m Semi Anechoic Chamber

3.13.Measurement Uncertainty

The measurement uncertainty levels have been estimated as specified in ETSI TR 100 028-2001

Test Items/Facilities			Frequency Range	Uncertainty
Conduction Test	☒	No. 7 Shielded Room	9kHz-150kHz	±3.7dB
	150kHz-30MHz		±3.4dB	
	☐	No. 8 Shielded Room	9kHz-150kHz	±3.7dB
	150kHz-30MHz		±3.4dB	
Radiation Test	☒	No.1 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.0dB
			200MHz-1000MHz, 3m, Horizontal	±4.0dB
			30MHz-200MHz, 3m, Vertical	±4.8dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
			1GHz-6GHz, 3m	±4.2dB
			6GHz-18GHz, 3m	±4.0dB
	☐	No.3 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.3dB
			200MHz-1000MHz, 3m, Horizontal	±4.0dB
			30MHz-200MHz, 3m, Vertical	±4.7dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
			1GHz-6GHz, 3m	±4.7dB
			6GHz-18GHz, 3m	±4.4dB
	☐	No.4 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
			200MHz-1000MHz, 3m, Horizontal	±3.9dB
			30MHz-200MHz, 3m, Vertical	±4.6dB
			200MHz-1000MHz, 3m, Vertical	±4.3dB
			1GHz-6GHz, 3m	±4.6dB
			6GHz-18GHz, 3m	±4.1dB
	☐	No.5 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.4dB
			200MHz-1000MHz, 3m, Horizontal	±4.2dB
			30MHz-200MHz, 3m, Vertical	±4.9dB
			200MHz-1000MHz, 3m, Vertical	±5.1dB
			1GHz-6GHz, 3m	±4.4dB
			6GHz-18GHz, 3m	±4.0dB
		Radiated emissions (18GHz-40GHz)		18GHz-40GHz, 3m

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

Test Item	Uncertainty
Bandwidth	±0.48%
Maximum peak output power	± 0.8dB
Power spectral density	±0.5dB
Conducted Emission Limitations	±1.24 dB

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	103114	2025.06.02	1 Year
2.	A.M.N.	R&S	ESH2-Z5	100366	2024.11.01	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1370-9	2025.02.05	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	101495	2024.12.07	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.7 S/R	2025.04.09	1 Year
6.	Signal Cable	Thermax/CDT	RG-142	CE-07	2025.05.08	1 Year
7.	Test Software	Audix	e3	V9 18621a	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	2025.08.07	1 Year
2.	Spectrum Analyzer	Keysight	N9010B-544	MY55460198	2025.07.09	1 Year
3.	Test Receiver	R&S	ESCS30	100338	2025.06.14	1 Year
4.	Amplifier	HP	8447D	2944A06305	2024.12.16	1 Year
5.	Microwave Preamplifier	Agilent	8449B	3008A02678	2025.02.12	1 Year
6.	Microwave Preamplifier	HP	8449B	3008A01284	2025.07.07	1 Year
7.	Microwave Amplifier	Keysight	83051A	MY56480113	2025.09.05	1 Year
8.	Loop antenna	TESEQ	HLA 6121	60478	2025.06.05	1 Year
9.	Bilog Antenna	TESEQ	CBL6112D	33821	2025.02.08	1 Year
10.	Horn Antenna	EMCO	3115	9112-3775	2025.05.06	1 Year
11.	Horn Antenna	COM-POWER	AH-840	101092	2025.01.09	1 Year
12.	2.4GHz Notch Filter	K&L Microwave	7NSL10-2441.5/E13 0.5-O/O	1	2025.04.10	1 Year
13.	High-Pass Filter	Microwave	H3G018G1	484796	2025.04.10	1 Year
14.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2025.01.03	1 Year
15.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 106	RE-14	2025.01.03	1 Year
16.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	RE-30	2025.08.19	1 Year
17.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2025.04.09	1 Year
18.	Test Software	Audix	e3	V9 18621a	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	N9010B	MY65100101	2025.05.05	1 Year
2.	Spectrum Analyzer	Keysight	N9010B	MY65100102	2025.05.14	1 Year
3.	Power Meter	Anritsu	ML2495A	2127005	2024.11.19	1 Year
4.	Power Sensor	Anritsu	MA2411B	1911360	2024.11.30	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	RF-03	2025.04.09	1 Year

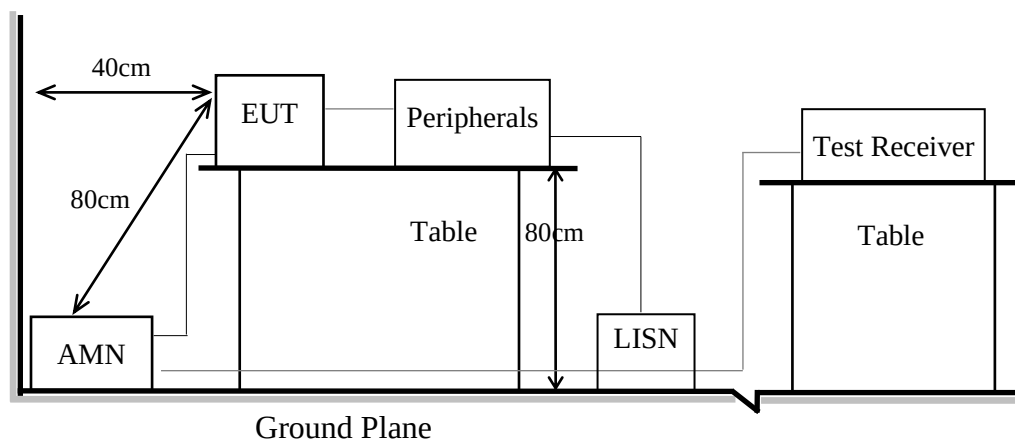
5. CONDUCTED EMISSION

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.

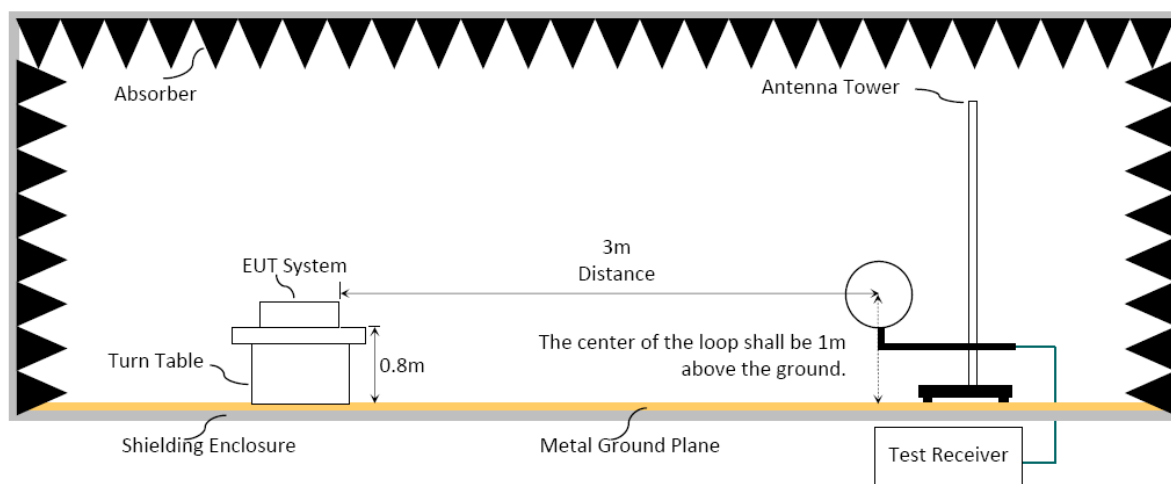
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

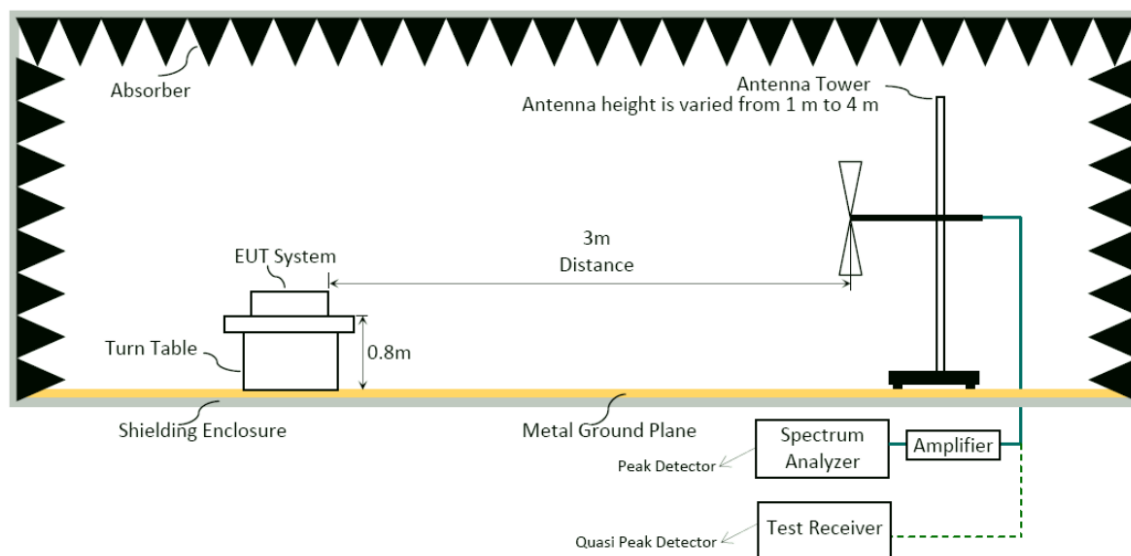
6.1.1. Block Diagram of EUT

Indicated as section 3.10

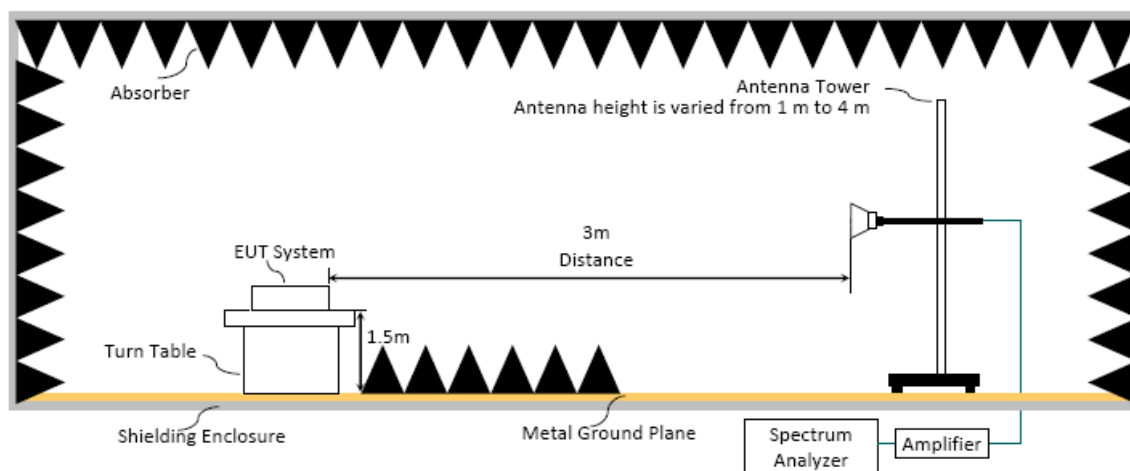
6.1.2. Setup Diagram for 9kHz-30MHz



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 C63.10-2020 & ANSI C63.10-2020 + COR.1-2023 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 C63.10-2020 & ANSI C63.10-2020 + COR.1-2023 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 $\geq 1/T$)
BLE (1Mbps)	470Hz
BLE (2Mbps)	1kHz
BLE (PHY Coded S2)	---
BLE (PHY Coded S8)	---

Mode		VBW Setting
802.11b		120Hz
802.11g		750Hz
802.11n-HT20		820Hz
802.11n-HT40		1.6kHz
802.11ax-HE20		2.0kHz
802.11ax-HE40		3.3kHz
Mode	RU Tone	VBW Setting
802.11ax-HE20	26	3.3kHz
	52	3.3kHz
	106	3.9kHz
802.11ax-HE40	242	4.3kHz

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

(4) Sweep time = auto.

(5) Trace mode = max hold.

(6) 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



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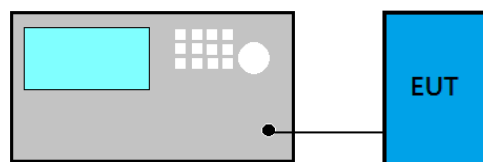
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6.5. Test Results

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 C63.10-2020 & ANSI C63.10-2020 + COR.1-2023:

For DTS Bandwidth

- (1) Set RBW shall be in the range of 1% to 5% of the OBW, but not less than 100kHz.
- (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.

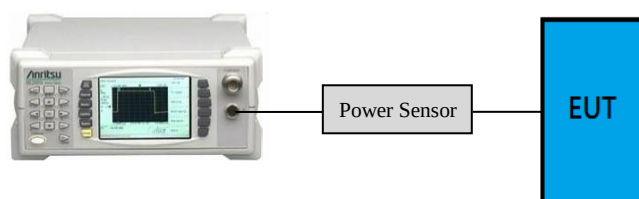
7.4. Test Results

Please refer to Appendix A

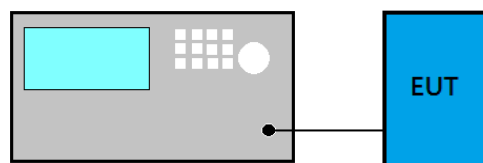
8. MAXIMUM PEAK OUTPUT POWER

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 C63.10-2020 & ANSI C63.10-2020 + COR.1-2023:

☒ **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)**

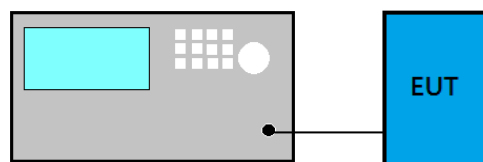
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 -5% of OBW
- (3) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the 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 C63.10-2020 & ANSI C63.10-2020 + COR.1-2023:

☒ 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

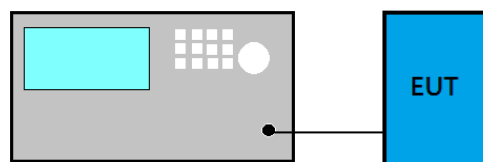
- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: 100 kHz.
- (4) Set the VBW $\geq 3 \times$ RBW.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully 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 C63.10-2020 & ANSI C63.10-2020 + COR.1-2023:

☒ **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



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

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

11.DEVIATION TO TEST SPECIFICATIONS

【NONE】



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

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

APPENDIX A

TEST DATA AND PLOTS

(Model: WCH941M)

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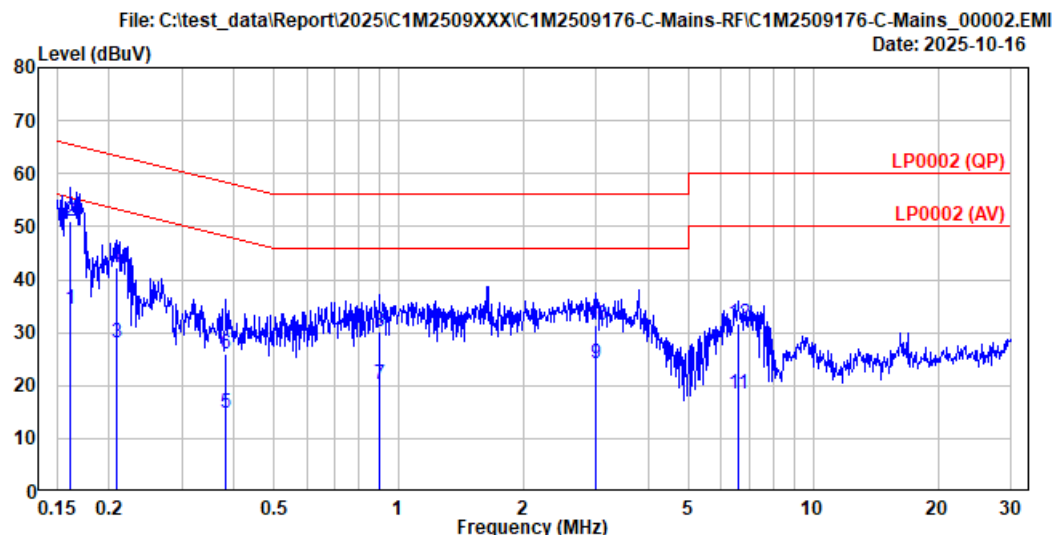
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Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan

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

A.1 CONDUCTED EMISSION

Test Date	2025/10/16	Temp./Hum.	24°C/61%
Test Voltage	DC 5V (Through jig via Notebook PC)	Tested By	Bruce Tseng



Site No.	: No.7 Shielded Room	Data No.	: 2
Instrument 1	: Receiver ESR(114)		
Instrument 2	: ESH2-Z5 (366)(A) CE-07 ESH3-Z2 (495)		
Limit	: LP0002 (QP)	Phase	: Neutral
Environment	: 24°C/61%	Test Rating	: 5Vdc
EUT Model	: WCHB41M	Engineer	: Bruce
Test Mode	: Operating		

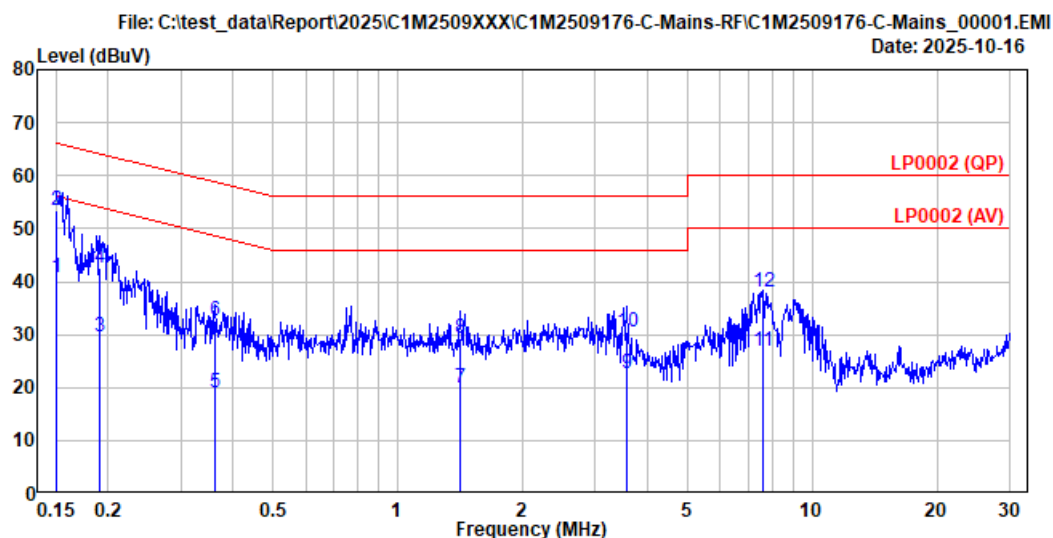
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.162	0.17	0.05	9.86	24.28	34.36	55.38	21.02	Average
2	0.162	0.17	0.05	9.86	40.84	50.92	65.38	14.46	QP
3	0.208	0.17	0.05	9.87	17.94	28.03	53.27	25.24	Average
4	0.208	0.17	0.05	9.87	32.22	42.31	63.27	20.96	QP
5	0.383	0.17	0.05	9.86	4.84	14.92	48.22	33.30	Average
6	0.383	0.17	0.05	9.86	16.01	26.09	58.22	32.13	QP
7	0.898	0.20	0.06	9.87	9.95	20.08	46.00	25.92	Average
8	0.898	0.20	0.06	9.87	20.01	30.14	56.00	25.86	QP
9	2.985	0.25	0.10	9.87	13.99	24.21	46.00	21.79	Average
10	2.985	0.25	0.10	9.87	21.03	31.25	56.00	24.75	QP
11	6.593	0.29	0.14	9.89	8.17	18.49	50.00	31.51	Average
12	6.593	0.29	0.14	9.89	21.26	31.58	60.00	28.42	QP

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

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Test Date	2025/10/16	Temp./Hum.	24°C/61%
Test Voltage	DC 5V (Through jig via Notebook PC)	Tested By	Bruce Tseng



Site No.	: No.7 Shielded Room	Data No.	: 1
Instrument 1	: Receiver ESR(114)		
Instrument 2	: ESH2-Z5 (366)(A) CE-07 ESH3-Z2 (495)		
Limit	: LP0002 (QP)	Phase	: Line
Environment	: 24°C/61%	Test Rating	: 5Vdc
EUT Model	: WCHB41M	Engineer	: Bruce
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	0.150	0.14	0.05	9.86	30.66	40.71	56.00	15.29	Average
2	0.150	0.14	0.05	9.86	43.34	53.39	66.00	12.61	QP
3	0.191	0.14	0.05	9.87	19.54	29.60	54.01	24.41	Average
4	0.191	0.14	0.05	9.87	32.62	42.68	64.01	21.33	QP
5	0.362	0.14	0.05	9.86	8.90	18.95	48.67	29.72	Average
6	0.362	0.14	0.05	9.86	22.44	32.49	58.67	26.18	QP
7	1.413	0.18	0.07	9.87	9.95	20.07	46.00	25.93	Average
8	1.413	0.18	0.07	9.87	19.23	29.35	56.00	26.65	QP
9	3.571	0.23	0.11	9.87	12.55	22.76	46.00	23.24	Average
10	3.571	0.23	0.11	9.87	20.38	30.59	56.00	25.41	QP
11	7.618	0.25	0.15	9.89	16.68	26.97	50.00	23.03	Average
12	7.618	0.25	0.15	9.89	27.88	38.17	60.00	21.83	QP

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

A.2 RADIATED EMISSION

Test Date	2025/10/15 ~ 22	Temp./Hum.	22~26°C/51~58%
Test Voltage	DC 5V (Through jig via Notebook PC)	Tested By	Kuper Hsu

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.

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New Taipei City 244, Taiwan

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A.2.1.2 Frequency Below 1GHz.

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)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
31.000	23.22	1.42	26.47	26.19	24.37	40.00	15.63	Peak
215.500	16.29	3.84	25.76	38.77	33.15	43.50	10.35	Peak
290.500	19.07	4.59	25.62	39.03	37.08	46.00	8.92	Peak
705.000	24.57	7.67	27.40	27.73	32.57	46.00	13.43	Peak
901.500	26.44	8.83	27.00	26.68	34.95	46.00	11.05	Peak
973.500	26.94	9.24	26.78	30.29	39.69	54.00	14.31	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
33.000	22.33	1.45	26.47	27.08	24.40	40.00	15.60	Peak
140.000	17.22	3.08	26.04	32.28	26.55	43.50	16.95	Peak
273.500	18.82	4.43	25.64	32.54	30.14	46.00	15.86	Peak
570.000	23.97	7.08	27.30	31.44	35.19	46.00	10.81	Peak
904.000	26.46	8.84	26.99	26.95	35.26	46.00	10.74	Peak
973.500	26.94	9.24	26.78	29.53	38.93	54.00	15.07	Peak

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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)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
31.000	23.22	1.42	26.47	25.63	23.81	40.00	16.19	Peak
139.500	17.23	3.07	26.04	37.62	31.89	43.50	11.61	Peak
294.500	19.12	4.63	25.61	38.98	37.12	46.00	8.88	Peak
708.000	24.57	7.68	27.39	29.12	33.98	46.00	12.02	Peak
923.000	26.58	8.95	26.93	28.18	36.79	46.00	9.21	Peak
976.500	26.96	9.25	26.77	27.44	36.88	54.00	17.12	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
31.500	22.99	1.43	26.47	25.79	23.75	40.00	16.25	Peak
139.000	17.25	3.07	26.04	32.85	27.13	43.50	16.37	Peak
378.500	20.98	5.79	26.25	31.59	32.11	46.00	13.89	Peak
574.000	24.00	7.08	27.31	34.29	38.07	46.00	7.93	Peak
929.500	26.63	8.99	26.91	27.95	36.66	46.00	9.34	Peak
963.500	26.87	9.18	26.81	27.72	36.96	54.00	17.04	Peak

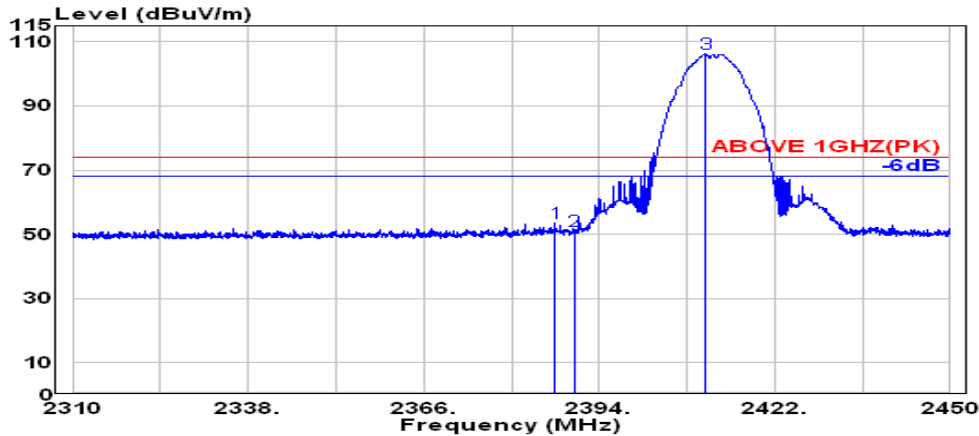
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A.2.1.3 Frequency Above 1 GHz to 10th harmonics

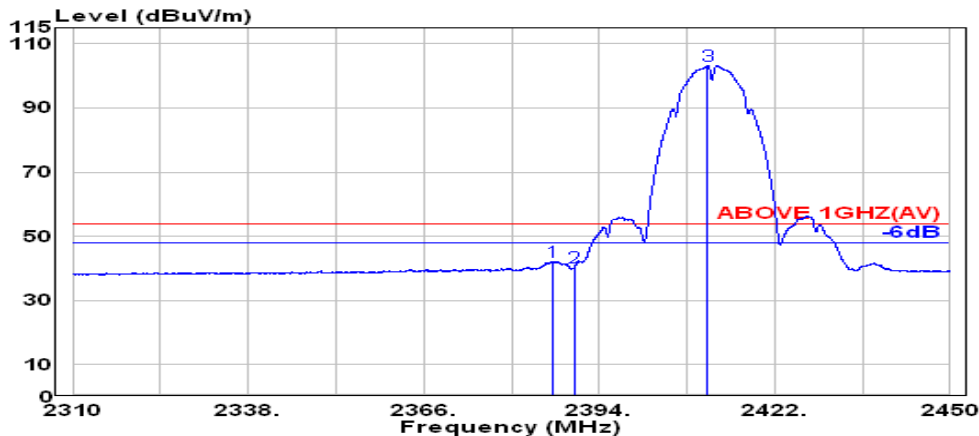
● Wireless LAN Mode

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 (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2386.900	32.17	6.23	34.50	49.46	53.37	74.00	20.63	Peak
2390.000	32.18	6.23	34.50	47.09	51.01	74.00	22.99	Peak
@ 2410.900	32.24	6.26	34.50	102.17	106.17	---	---	Peak



Antenna at Horizontal Polarization

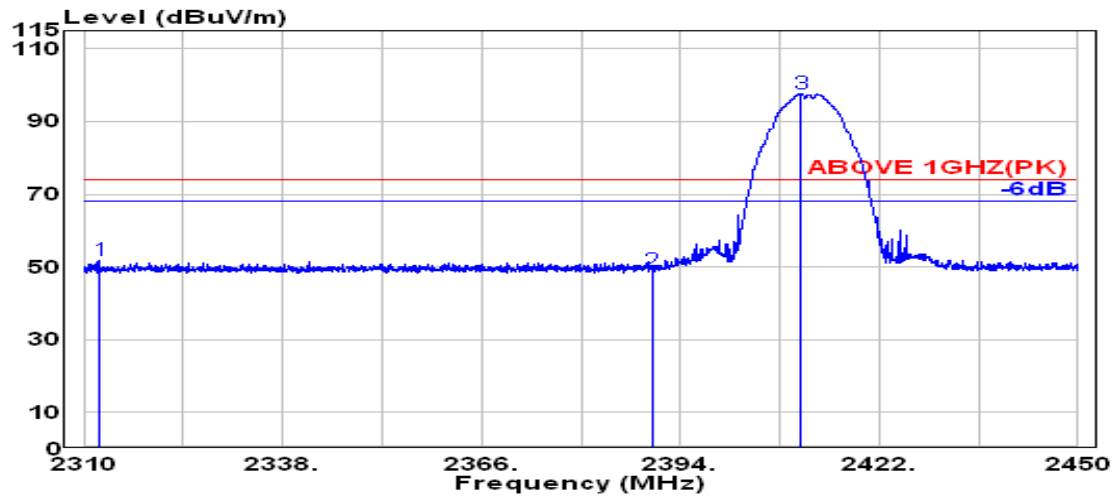
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2386.500	32.17	6.23	34.50	38.30	42.20	54.00	11.80	Average
2390.000	32.18	6.23	34.50	36.29	40.21	54.00	13.79	Average
@ 2411.200	32.25	6.27	34.50	99.28	103.29	---	---	Average

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

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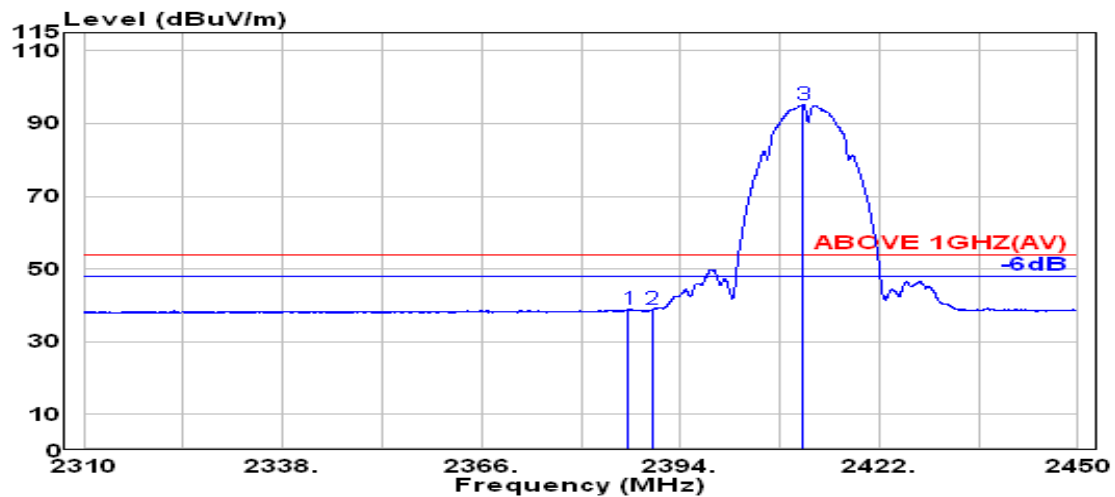
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Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2312.200	32.10	6.12	34.48	48.14	51.88	74.00	22.12	Peak
2390.000	32.18	6.23	34.50	45.06	48.98	74.00	25.02	Peak
@ 2410.950	32.24	6.26	34.50	93.61	97.62	---	---	Peak



Antenna at Vertical Polarization

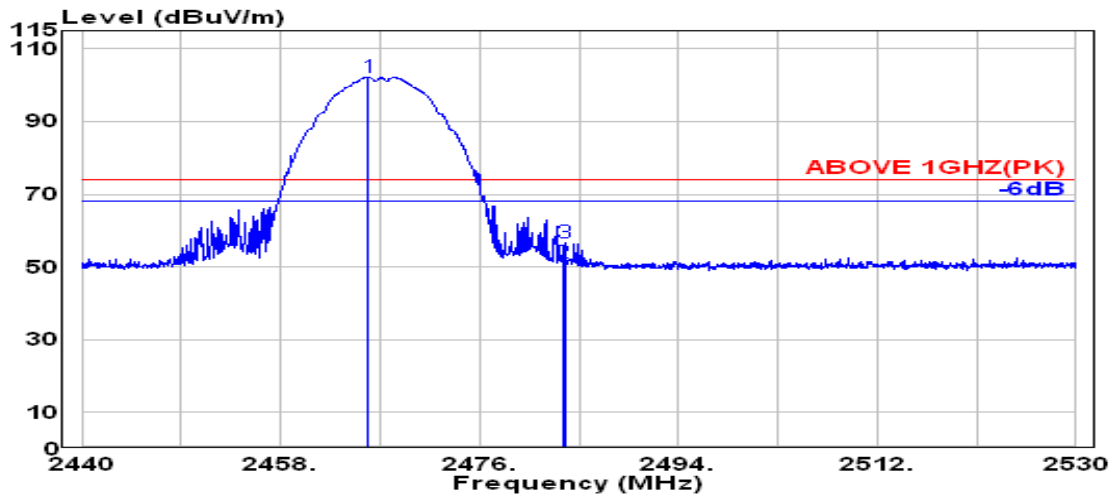
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2386.600	32.17	6.23	34.50	35.09	38.99	54.00	15.01	Average
2390.000	32.18	6.23	34.50	34.89	38.81	54.00	15.19	Average
@ 2411.200	32.25	6.27	34.50	91.24	95.24	---	---	Average

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

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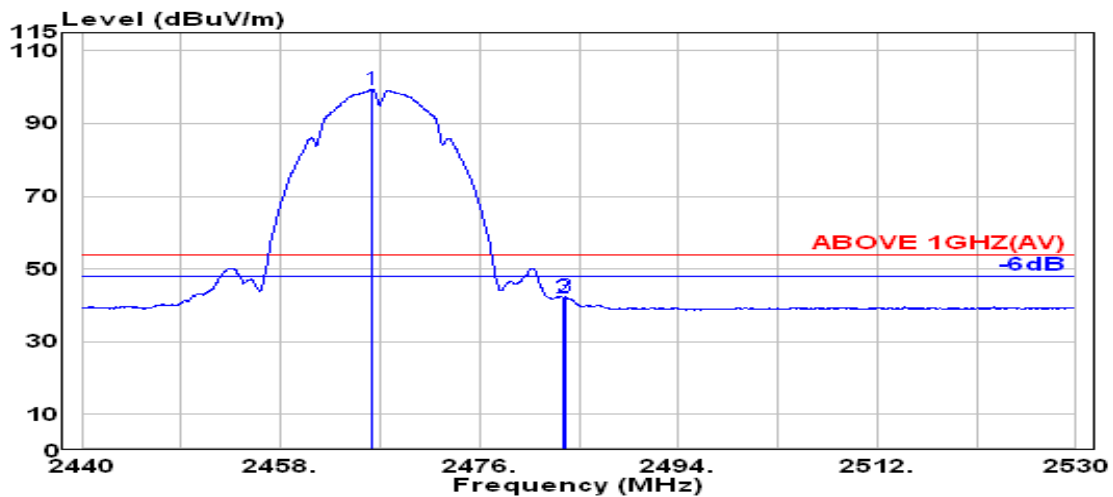
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Mode	802.11b	Frequency	TX 2467 MHz
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Antenna at Horizontal Polarization

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
@ 2465.950	32.40	6.34	34.51	97.99	102.22	---	---	Peak
2483.500	32.40	6.37	34.52	46.74	50.99	74.00	23.01	Peak
2483.700	32.40	6.37	34.52	52.41	56.66	74.00	17.34	Peak



Antenna at Horizontal Polarization

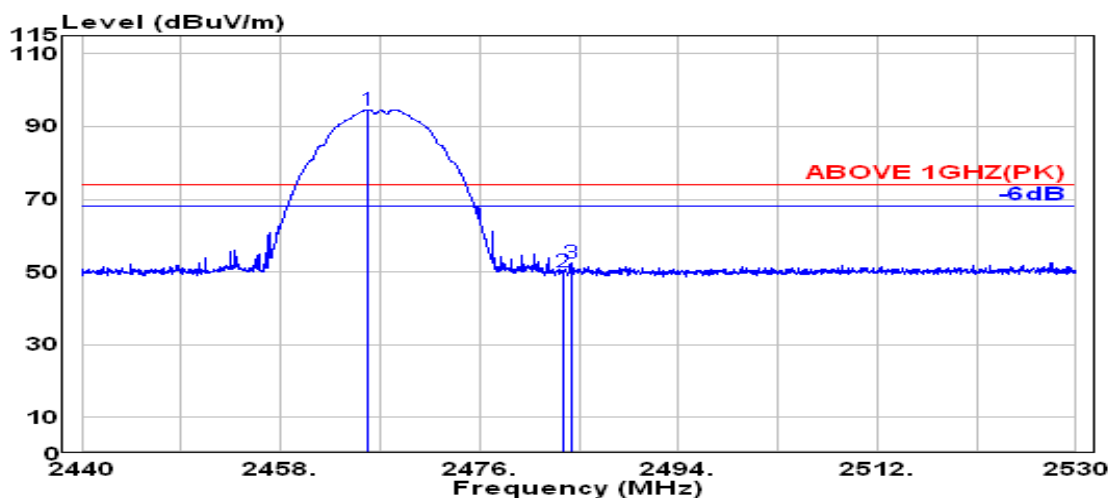
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2466.200	32.40	6.34	34.51	95.18	99.41	---	---	Average
2483.500	32.40	6.37	34.52	37.84	42.10	54.00	11.90	Average
2483.700	32.40	6.37	34.52	38.04	42.29	54.00	11.71	Average

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

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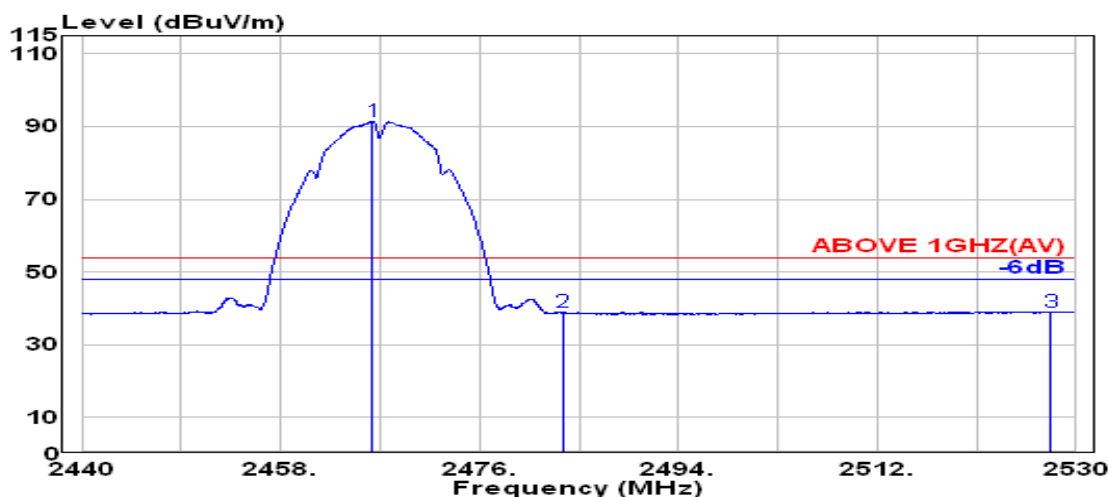
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Mode	802.11b	Frequency	TX 2467 MHz
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Antenna at Vertical Polarization

	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
@	2465.850	32.40	6.34	34.51	90.39	94.62	---	---	Peak
	2483.500	32.40	6.37	34.52	45.86	50.11	74.00	23.89	Peak
	2484.250	32.40	6.37	34.52	48.38	52.63	74.00	21.37	Peak



Antenna at Vertical Polarization

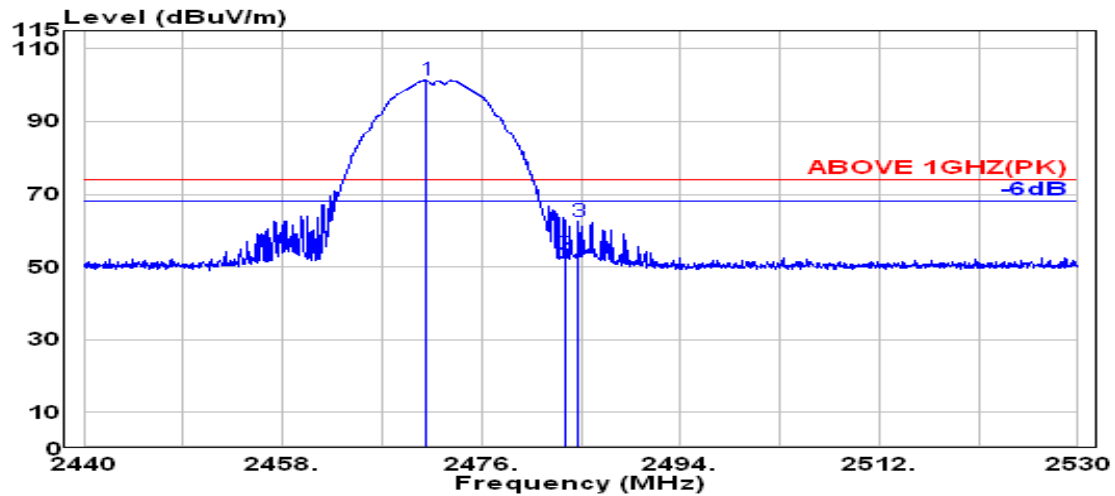
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2466.250	32.40	6.34	34.51	87.19	91.42	---	---	Average
	2483.500	32.40	6.37	34.52	34.67	38.92	54.00	15.08	Average
	2527.700	32.57	6.43	34.53	34.63	39.10	54.00	14.90	Average

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

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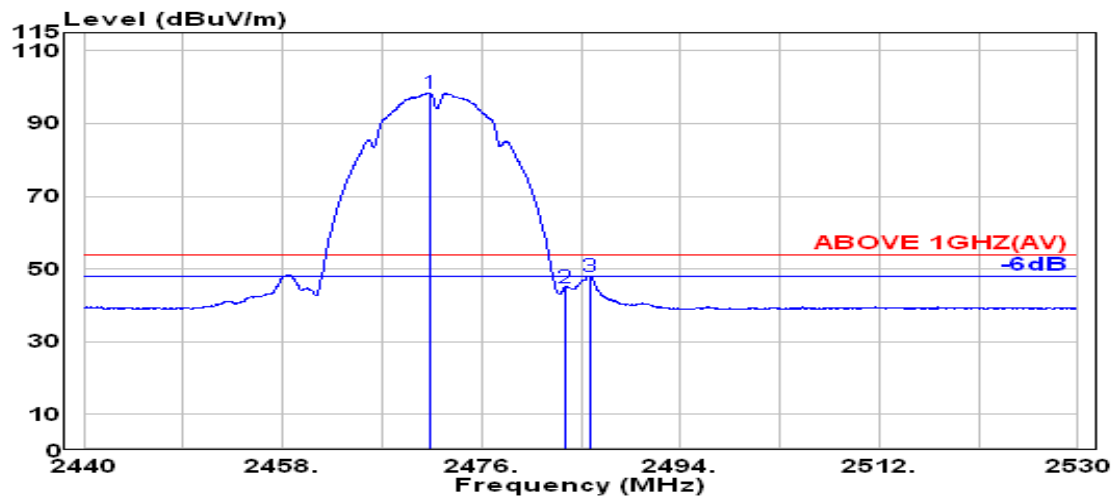
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Mode	802.11b	Frequency	TX 2472 MHz
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Antenna at Horizontal Polarization

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
@ 2471.000	32.40	6.35	34.51	97.10	101.33	---	---	Peak
2483.500	32.40	6.37	34.52	49.24	53.49	74.00	20.51	Peak
2484.750	32.40	6.37	34.52	58.31	62.56	74.00	11.44	Peak

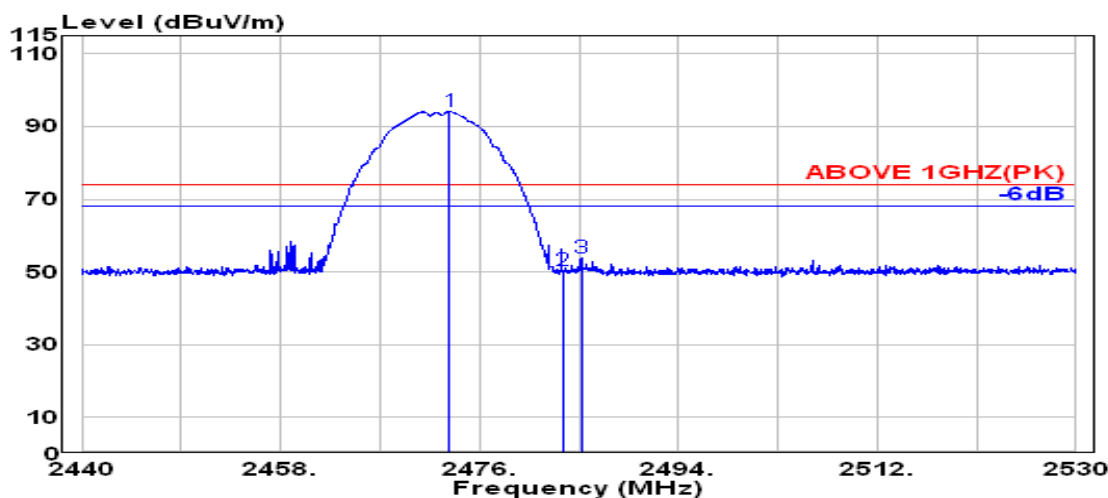


Antenna at Horizontal Polarization

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
@ 2471.250	32.40	6.35	34.51	94.23	98.47	---	---	Average
2483.500	32.40	6.37	34.52	40.58	44.83	54.00	9.17	Average
2485.750	32.40	6.37	34.52	43.87	48.13	54.00	5.87	Average

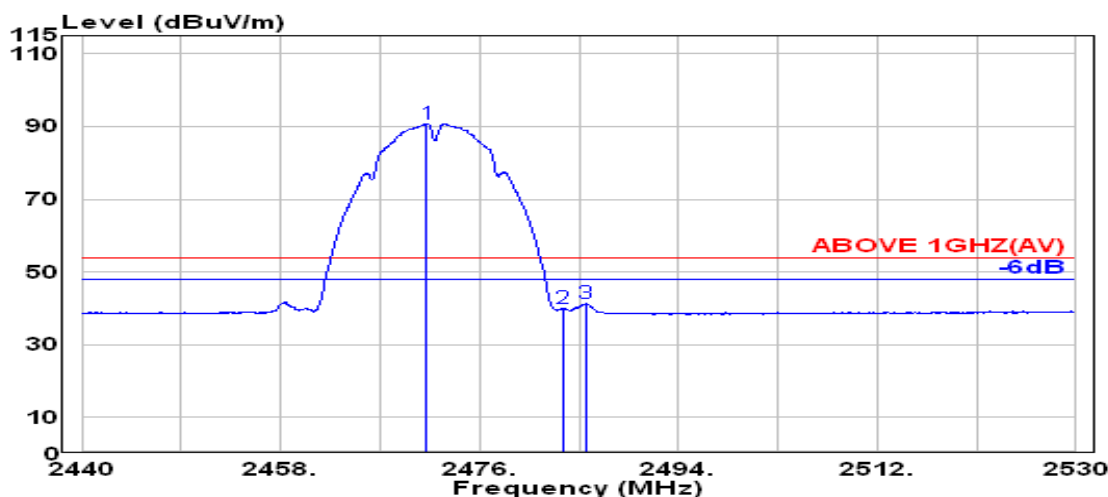
Remark: The “@” means fundamental frequency, it is ignored in this section

Mode	802.11b	Frequency	TX 2472 MHz
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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
@	2473.300	32.40	6.35	34.51	89.88	94.12	---	---	Peak
	2483.500	32.40	6.37	34.52	45.99	50.24	74.00	23.76	Peak
	2485.200	32.40	6.37	34.52	49.67	53.93	74.00	20.07	Peak



Antenna at Vertical Polarization

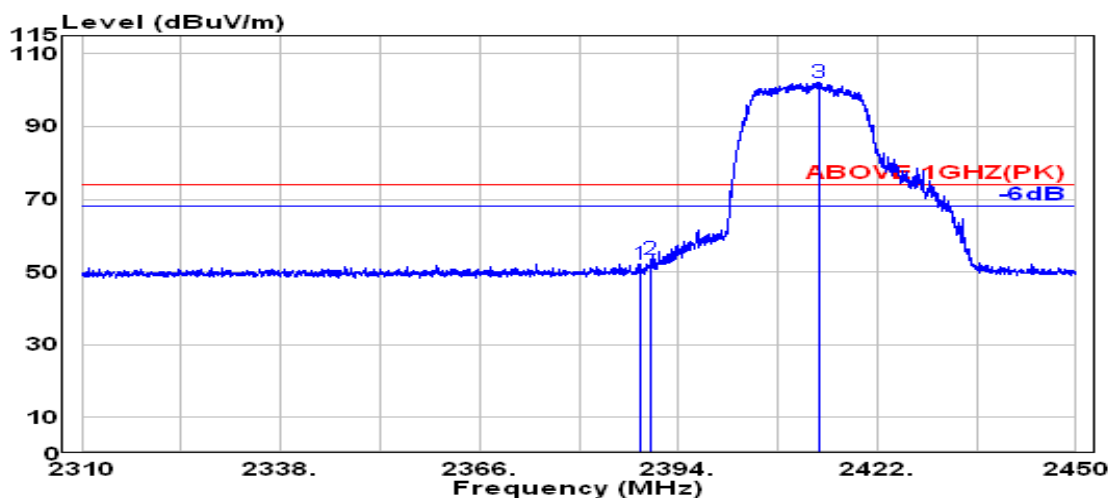
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@	2471.200	32.40	6.35	34.51	86.62	90.85	---	---	Average
	2483.500	32.40	6.37	34.52	35.59	39.84	54.00	14.16	Average
	2485.600	32.40	6.37	34.52	36.99	41.24	54.00	12.76	Average

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

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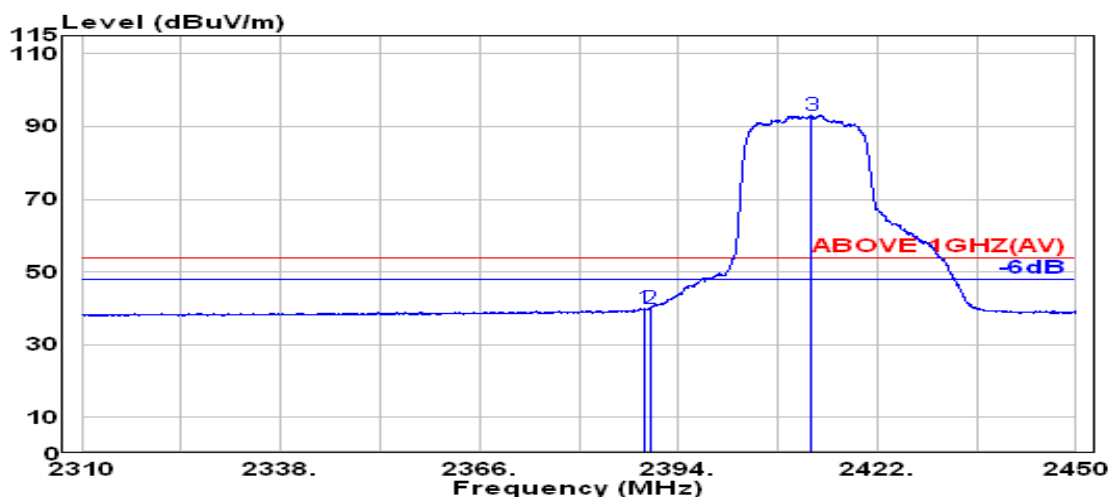
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Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

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
2388.500	32.18	6.23	34.50	48.33	52.24	74.00	21.76	Peak
2390.000	32.18	6.23	34.50	49.50	53.42	74.00	20.58	Peak
@ 2413.700	32.26	6.27	34.50	98.14	102.16	---	---	Peak



Antenna at Horizontal Polarization

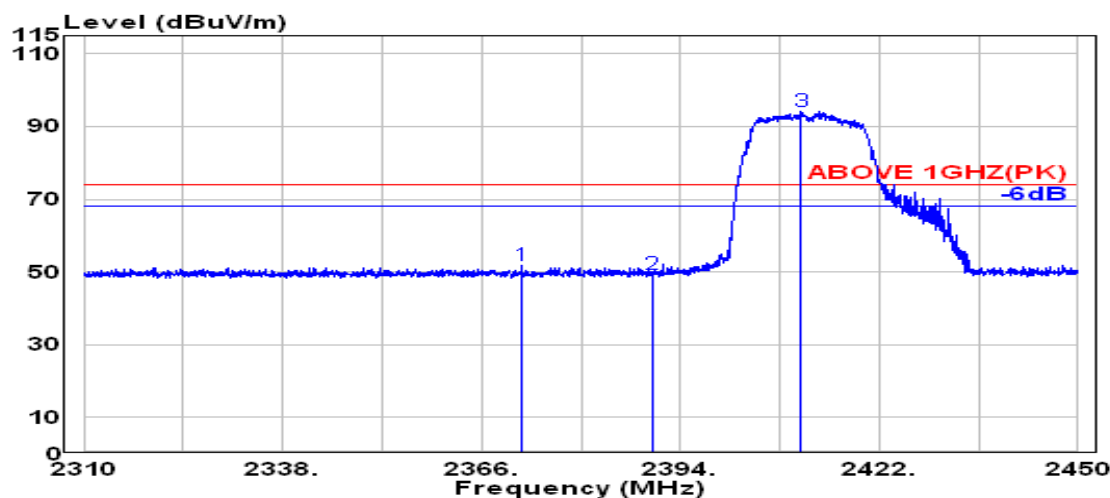
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.200	32.18	6.23	34.50	36.01	39.92	54.00	14.08	Average
2390.000	32.18	6.23	34.50	36.19	40.11	54.00	13.89	Average
@ 2412.750	32.25	6.27	34.50	89.06	93.07	---	---	Average

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

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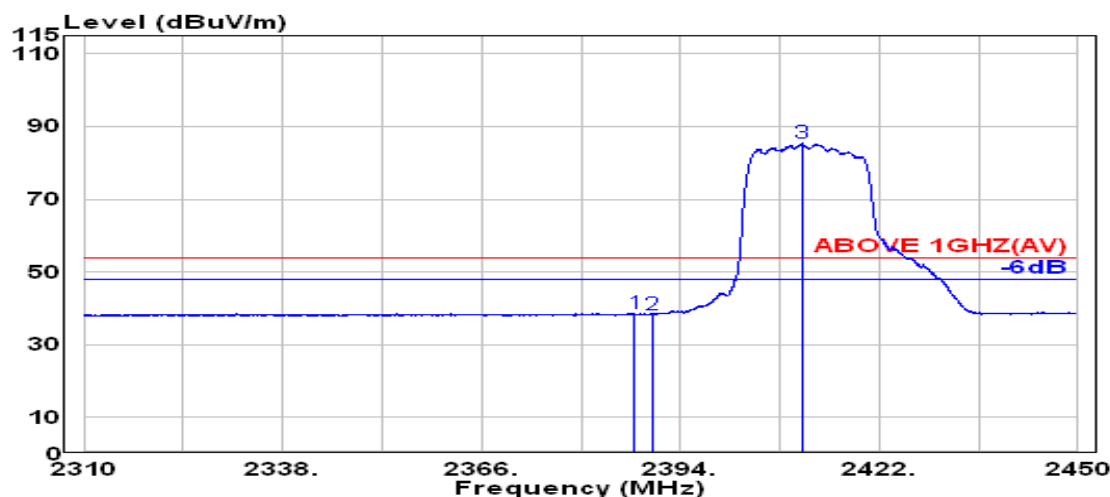
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Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2371.600	32.14	6.21	34.49	47.80	51.66	74.00	22.34	Peak
2390.000	32.18	6.23	34.50	45.37	49.29	74.00	24.71	Peak
@ 2410.900	32.24	6.26	34.50	90.19	94.19	---	---	Peak



Antenna at Vertical Polarization

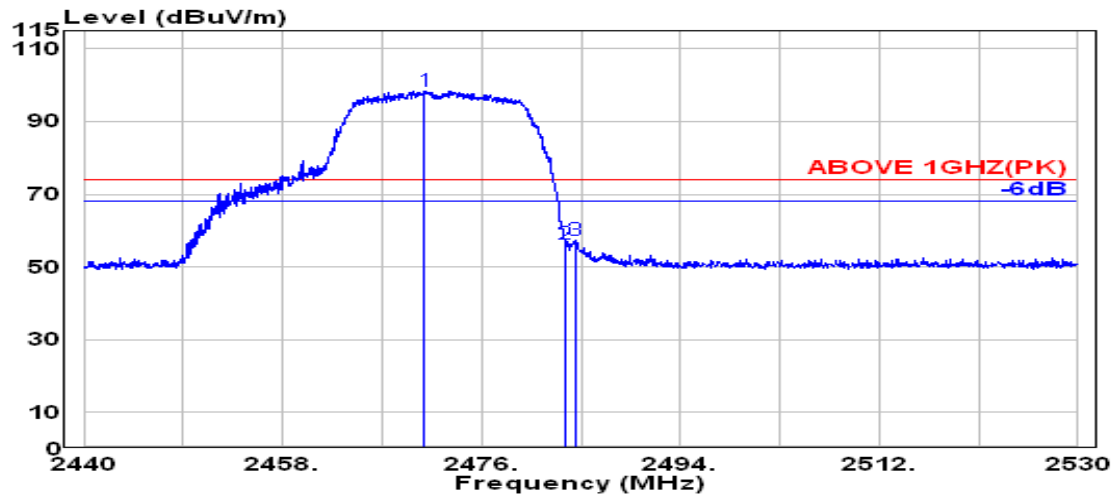
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.600	32.18	6.23	34.50	34.71	38.62	54.00	15.38	Average
2390.000	32.18	6.23	34.50	34.35	38.27	54.00	15.73	Average
@ 2411.150	32.24	6.27	34.50	81.44	85.45	---	---	Average

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

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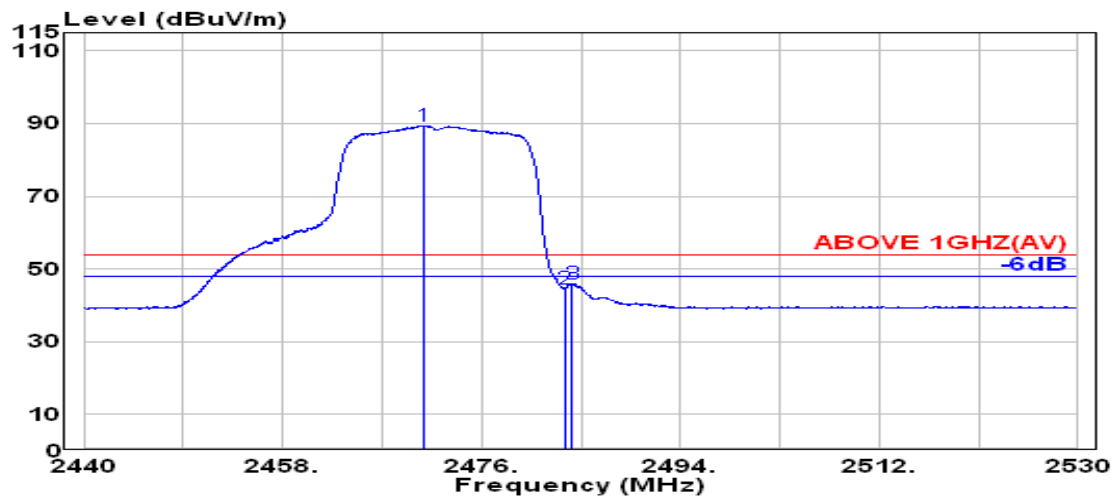
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Mode	802.11g	Frequency	TX 2472 MHz
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Antenna at Horizontal Polarization

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
@ 2470.850	32.40	6.35	34.51	94.22	98.46	---	---	Peak
2483.500	32.40	6.37	34.52	52.15	56.40	74.00	17.60	Peak
2484.450	32.40	6.37	34.52	53.01	57.26	74.00	16.74	Peak



Antenna at Horizontal Polarization

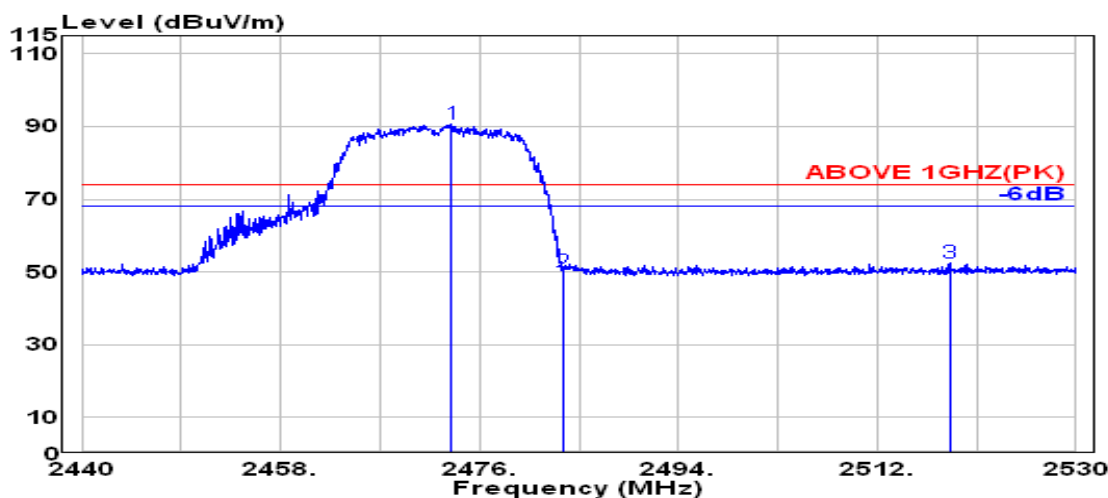
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2470.700	32.40	6.35	34.51	85.21	89.45	---	---	Average
2483.500	32.40	6.37	34.52	40.31	44.56	54.00	9.44	Average
2484.200	32.40	6.37	34.52	41.51	45.76	54.00	8.24	Average

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

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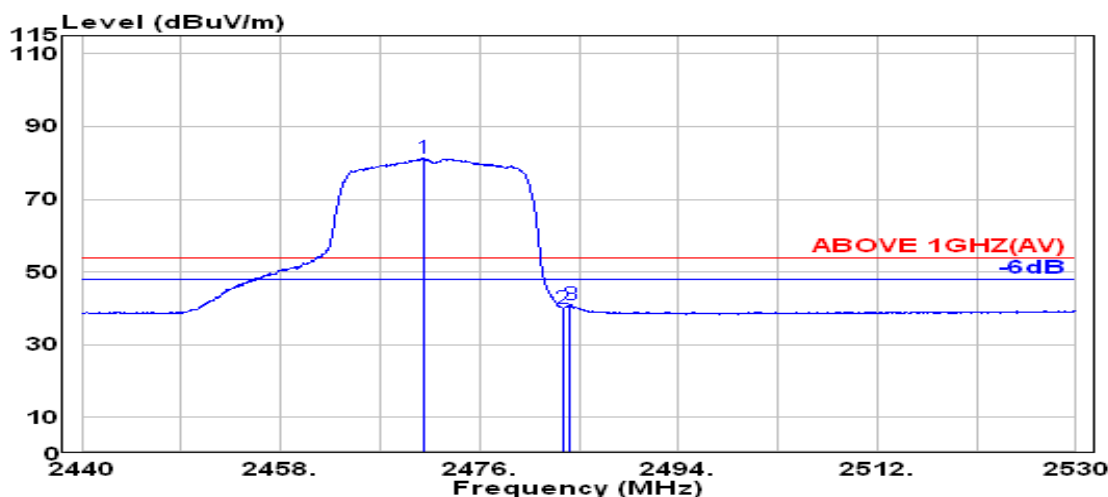
Tel: +886 2 26099301
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Mode	802.11g	Frequency	TX 2472 MHz
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Antenna at Vertical Polarization

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
@ 2473.450	32.40	6.35	34.51	86.42	90.66	---	---	Peak
2483.500	32.40	6.37	34.52	45.78	50.03	74.00	23.97	Peak
2518.550	32.51	6.41	34.52	47.92	52.33	74.00	21.67	Peak

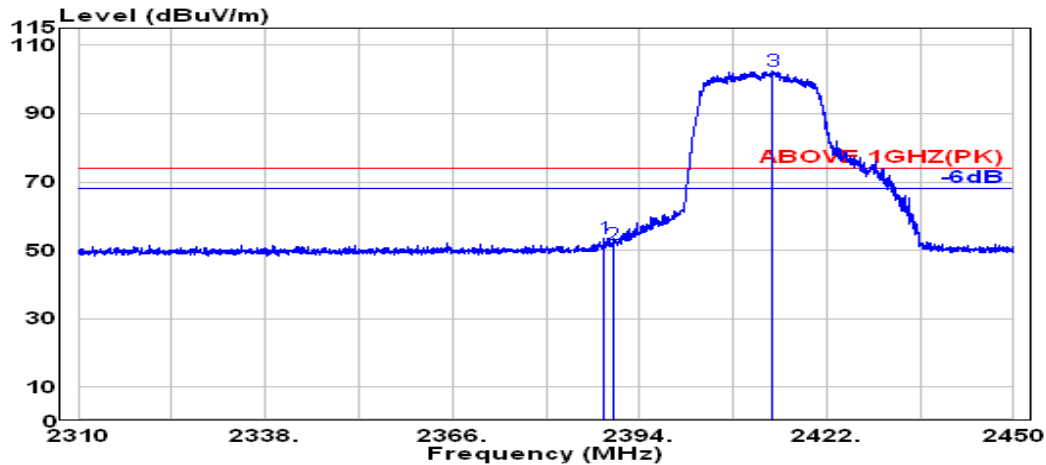


Antenna at Vertical Polarization

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
@ 2470.900	32.40	6.35	34.51	77.07	81.31	---	---	Average
2483.500	32.40	6.37	34.52	35.70	39.95	54.00	14.05	Average
2484.150	32.40	6.37	34.52	36.64	40.90	54.00	13.10	Average

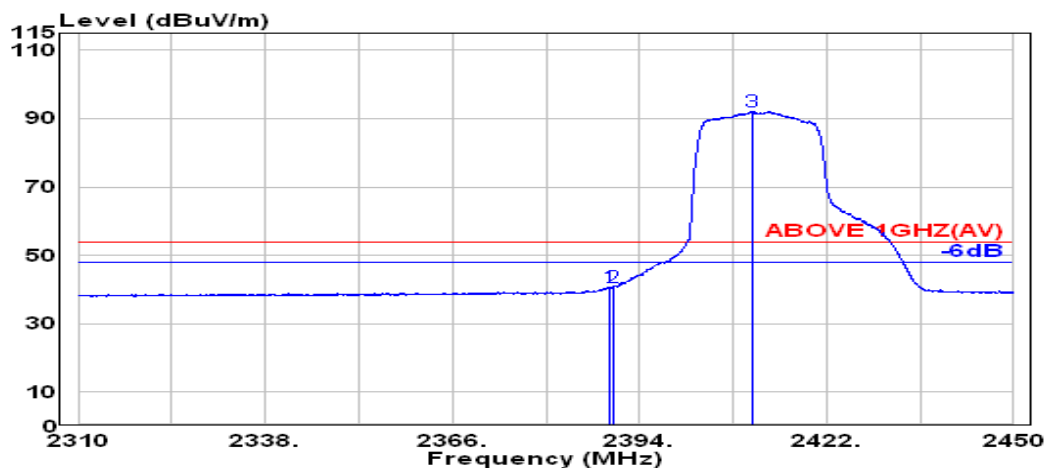
Remark: The “@” means fundamental frequency, it is ignored in this section

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.750	28.20	5.70	39.92	59.57	53.55	74.00	20.45	Peak
2390.000	28.20	5.70	39.92	57.95	51.93	74.00	22.07	Peak
@ 2413.950	28.23	5.74	39.92	108.30	102.35	---	---	Peak



Antenna at Horizontal Polarization

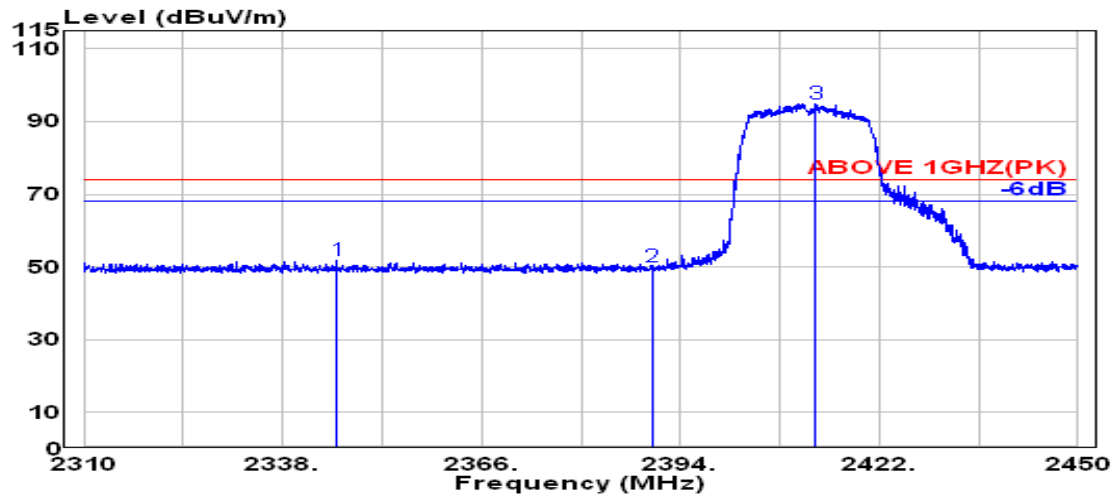
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.450	28.20	5.70	39.92	46.54	40.53	54.00	13.47	Average
2390.000	28.20	5.70	39.92	46.83	40.82	54.00	13.18	Average
@ 2410.800	28.22	5.73	39.92	98.11	92.15	---	---	Average

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

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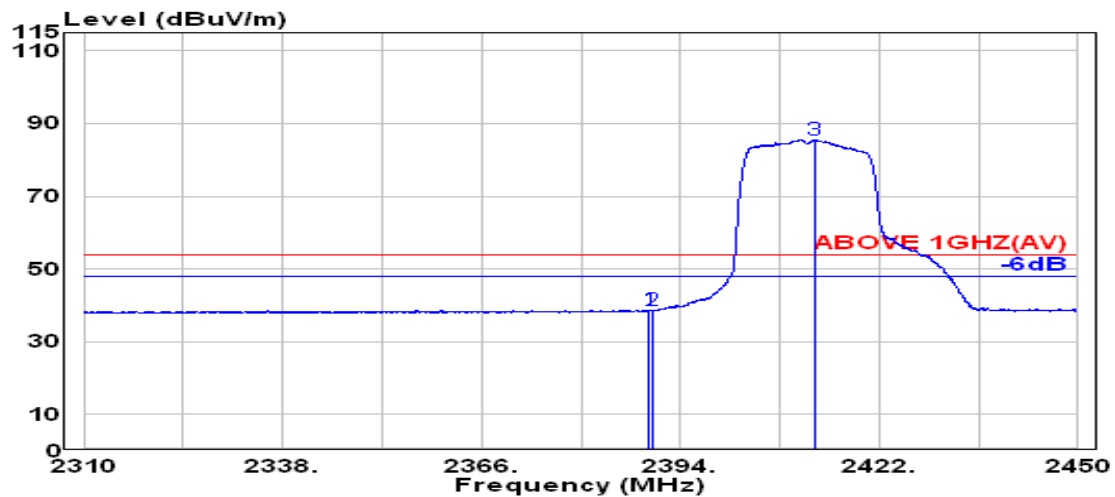
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Mode	802.11n-HT20	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2345.600	28.18	5.64	39.92	57.72	51.62	74.00	22.38	Peak
2390.000	28.20	5.70	39.92	56.12	50.10	74.00	23.90	Peak
@ 2413.000	28.23	5.73	39.92	100.89	94.93	---	---	Peak

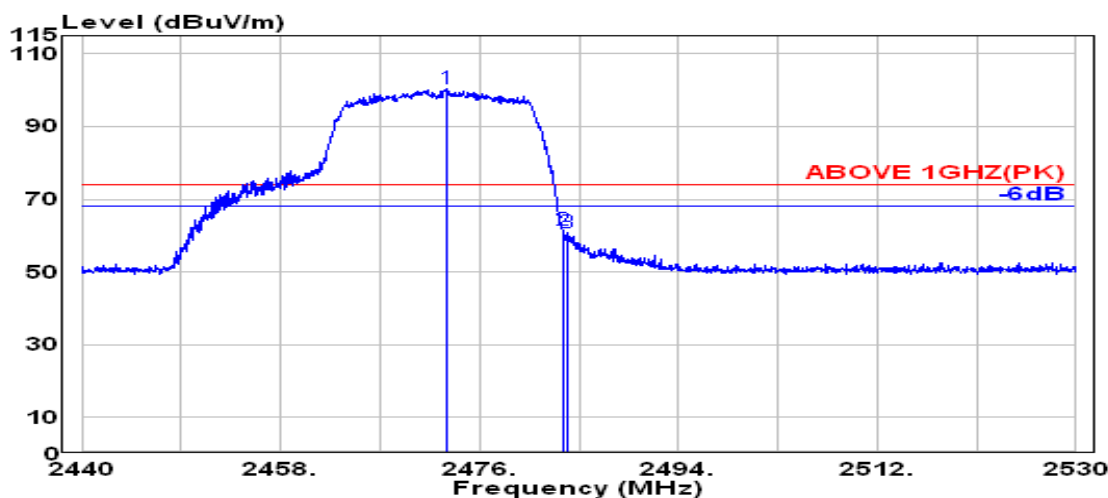


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.600	28.20	5.70	39.92	44.65	38.63	54.00	15.37	Average
2390.000	28.20	5.70	39.92	44.53	38.52	54.00	15.48	Average
@ 2412.900	28.23	5.73	39.92	91.56	85.60	---	---	Average

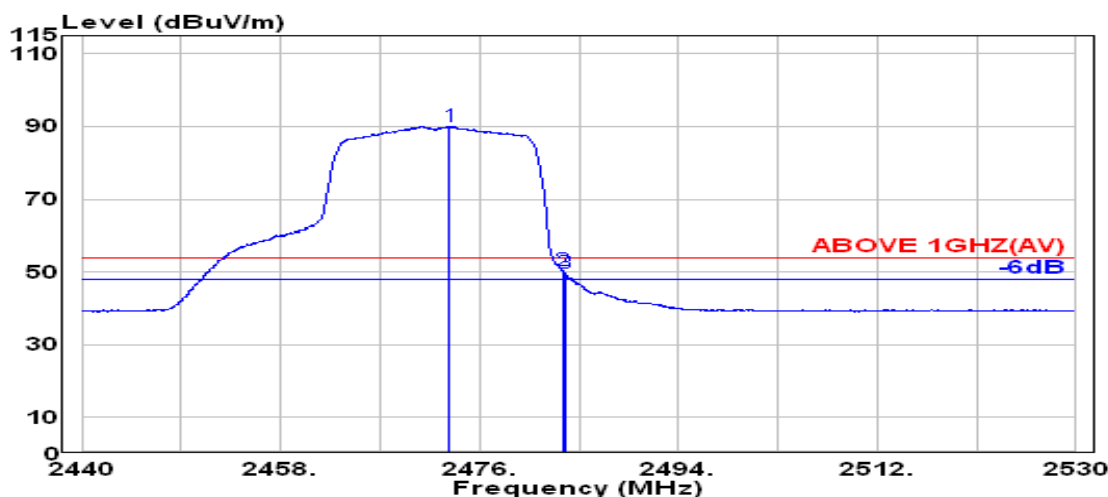
Remark: The “@” means fundamental frequency, it is ignored in this section

Mode	802.11n-HT20	Frequency	TX 2472 MHz
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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
@ 2472.950	28.39	5.81	39.92	106.11	100.40	---	---	Peak
2483.500	28.43	5.83	39.92	67.07	61.41	74.00	12.59	Peak
2483.950	28.44	5.83	39.92	66.62	60.97	74.00	13.03	Peak



Antenna at Horizontal Polarization

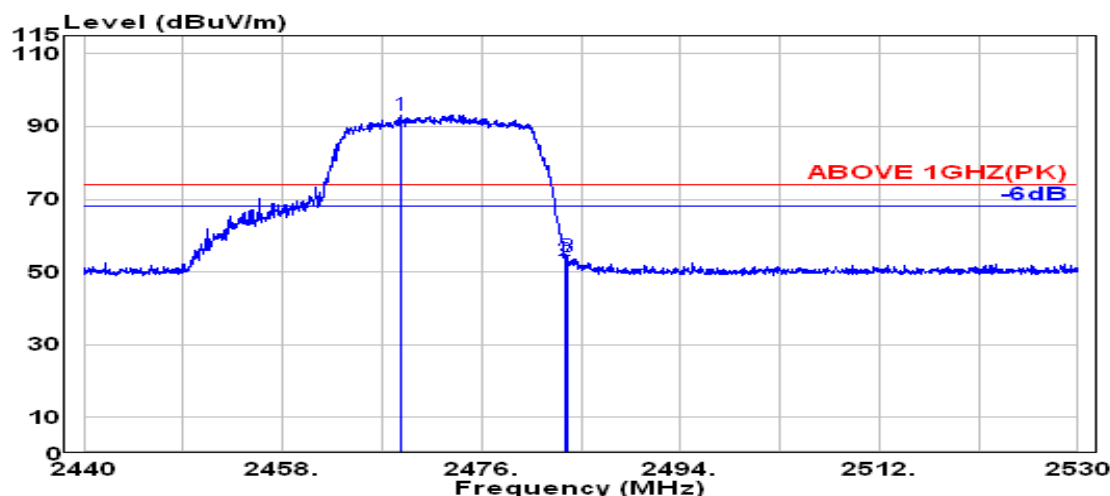
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2473.300	28.39	5.81	39.92	95.76	90.05	---	---	Average
2483.500	28.43	5.83	39.92	55.91	50.26	54.00	3.74	Average
2483.700	28.44	5.83	39.92	55.45	49.79	54.00	4.21	Average

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

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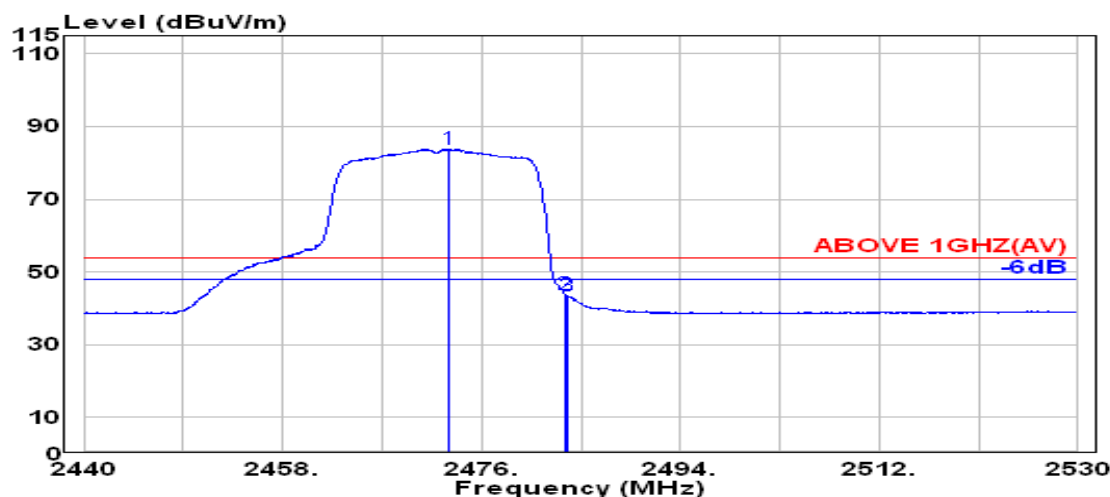
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Mode	802.11n-HT20	Frequency	TX 2472 MHz
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Antenna at Vertical Polarization

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
@ 2468.650	28.38	5.81	39.92	99.00	93.27	---	---	Peak
2483.500	28.43	5.83	39.92	58.88	53.22	74.00	20.78	Peak
2483.750	28.44	5.83	39.92	59.92	54.26	74.00	19.74	Peak



Antenna at Vertical Polarization

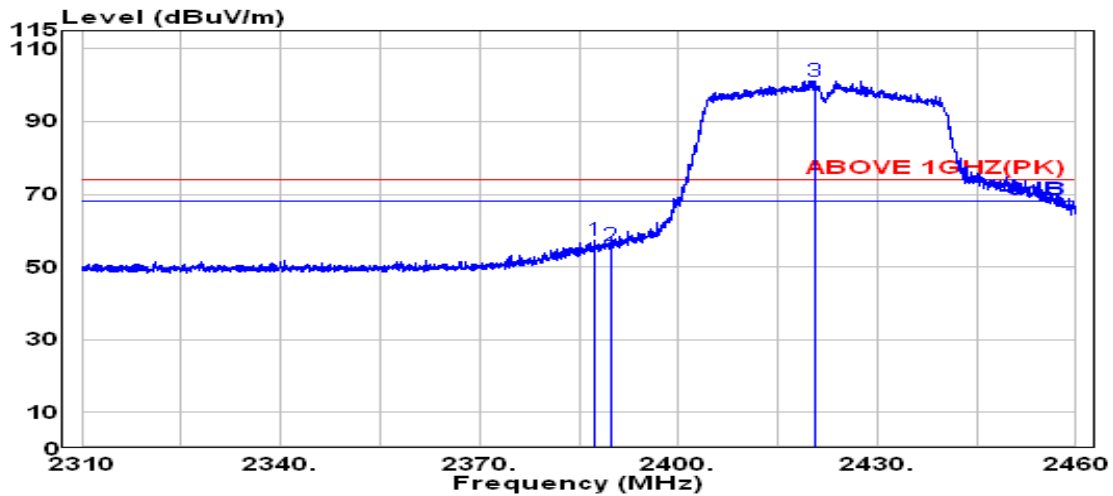
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@ 2473.000	28.39	5.81	39.92	89.56	83.85	---	---	Average
2483.500	28.43	5.83	39.92	49.58	43.93	54.00	10.07	Average
2483.750	28.44	5.83	39.92	49.26	43.60	54.00	10.40	Average

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

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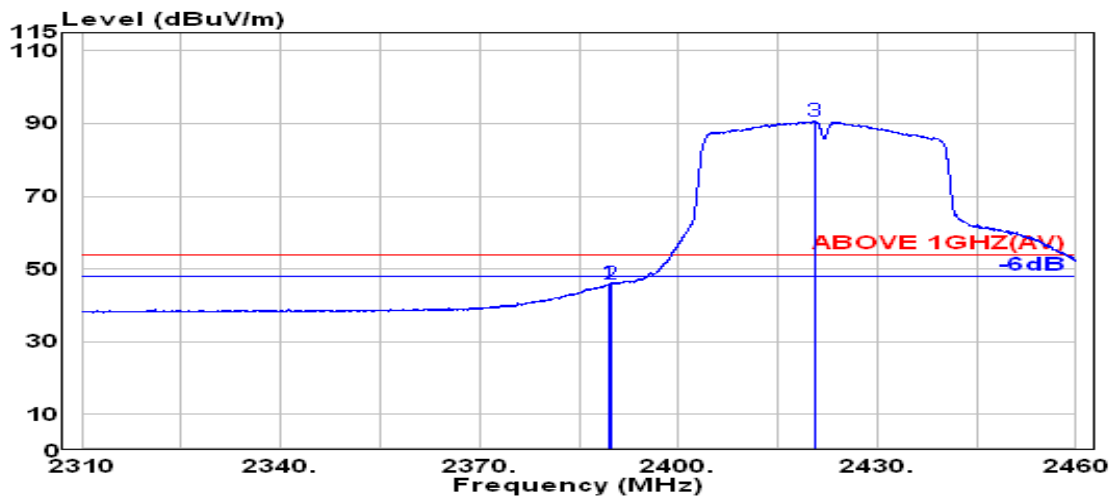
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Mode	802.11n-HT40	Frequency	TX 2422MHz
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Antenna at Horizontal Polarization

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
2387.300	28.20	5.70	39.92	63.31	57.29	74.00	16.71	Peak
2389.800	28.20	5.70	39.92	62.14	56.12	74.00	17.88	Peak
@ 2420.500	28.24	5.74	39.92	107.18	101.24	---	---	Peak



Antenna at Horizontal Polarization

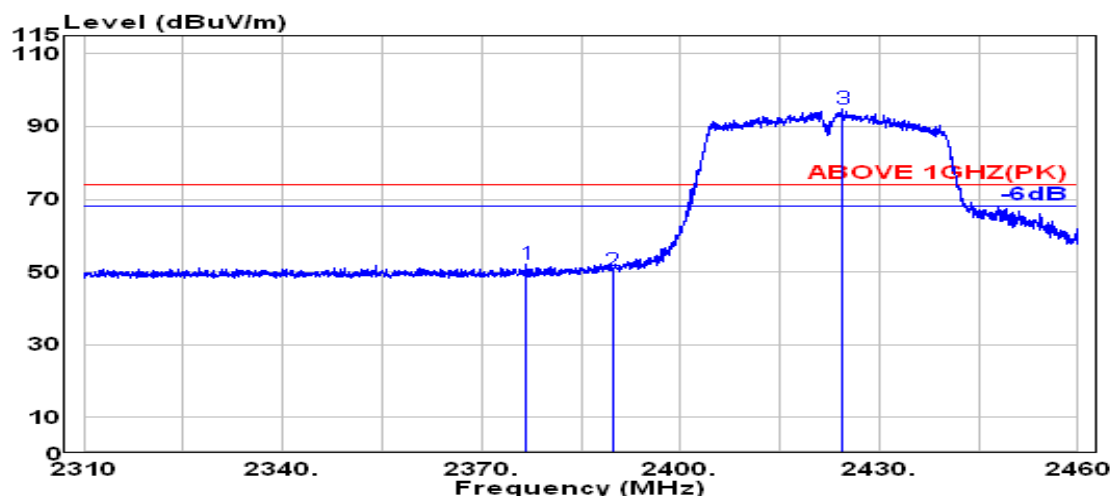
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.450	28.20	5.70	39.92	51.77	45.75	54.00	8.25	Average
2389.800	28.20	5.70	39.92	51.72	45.71	54.00	8.29	Average
@ 2420.600	28.24	5.74	39.92	96.71	90.77	---	---	Average

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

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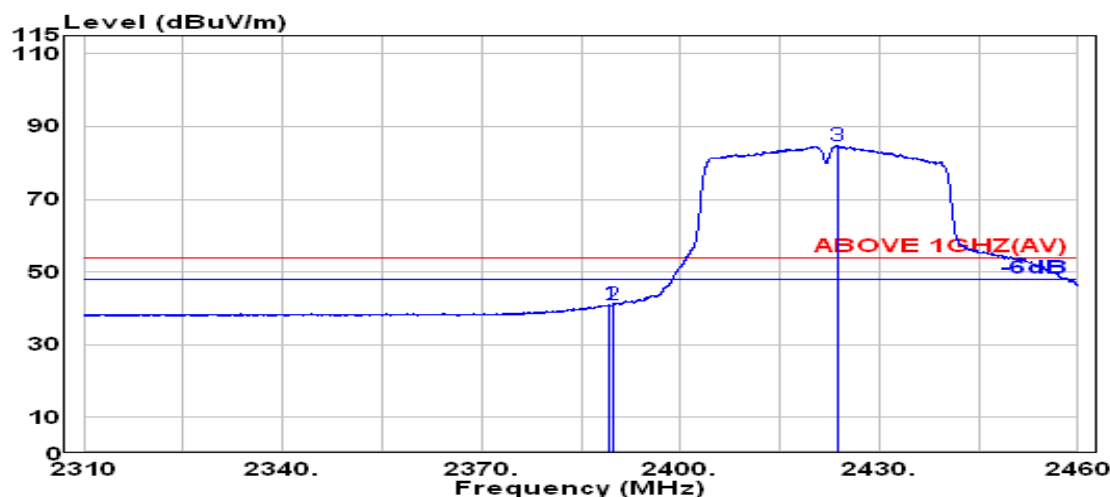
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Mode	802.11n-HT40	Frequency	TX 2422MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2376.800	28.20	5.68	39.92	58.27	52.24	74.00	21.76	Peak
2389.800	28.20	5.70	39.92	56.43	50.42	74.00	23.58	Peak
@ 2424.400	28.25	5.75	39.92	100.78	94.86	---	---	Peak



Antenna at Vertical Polarization

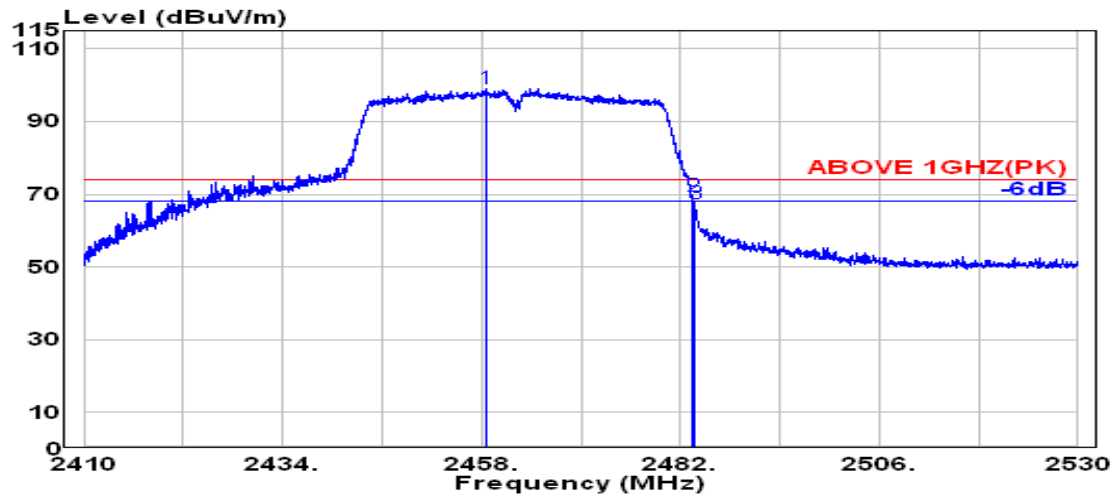
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2389.350	28.20	5.70	39.92	46.89	40.87	54.00	13.13	Average
2389.800	28.20	5.70	39.92	47.13	41.12	54.00	12.88	Average
@ 2423.700	28.25	5.75	39.92	90.70	84.78	---	---	Average

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

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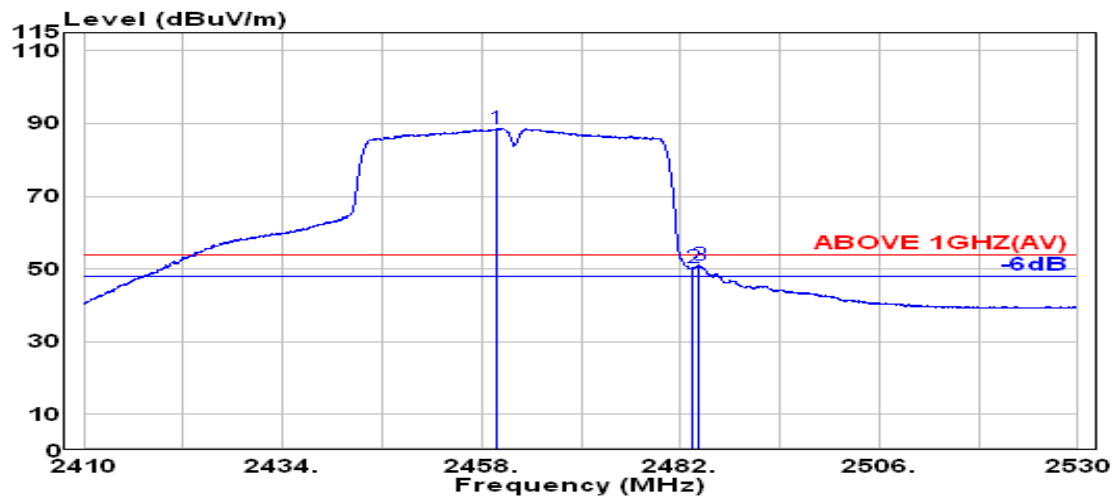
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Mode	802.11n-HT40	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2458.500	28.33	5.80	39.92	104.86	99.07	---	---	Peak
2483.500	28.43	5.83	39.92	75.27	69.61	74.00	4.39	Peak
2483.750	28.44	5.83	39.92	73.01	67.36	74.00	6.64	Peak



Antenna at Horizontal Polarization

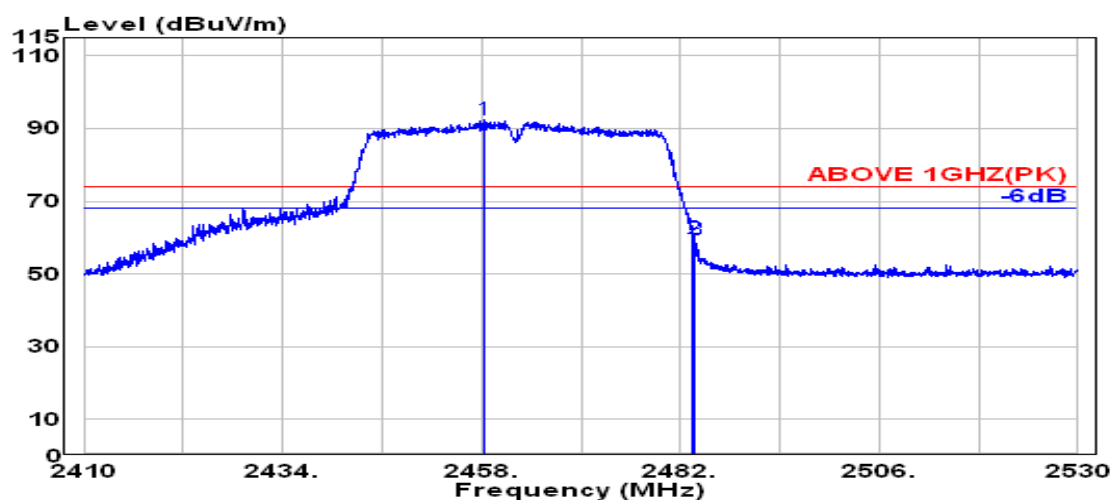
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2459.800	28.34	5.80	39.92	94.51	88.73	---	---	Average
2483.500	28.43	5.83	39.92	55.94	50.28	54.00	3.72	Average
2484.250	28.44	5.83	39.92	56.59	50.94	54.00	3.06	Average

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

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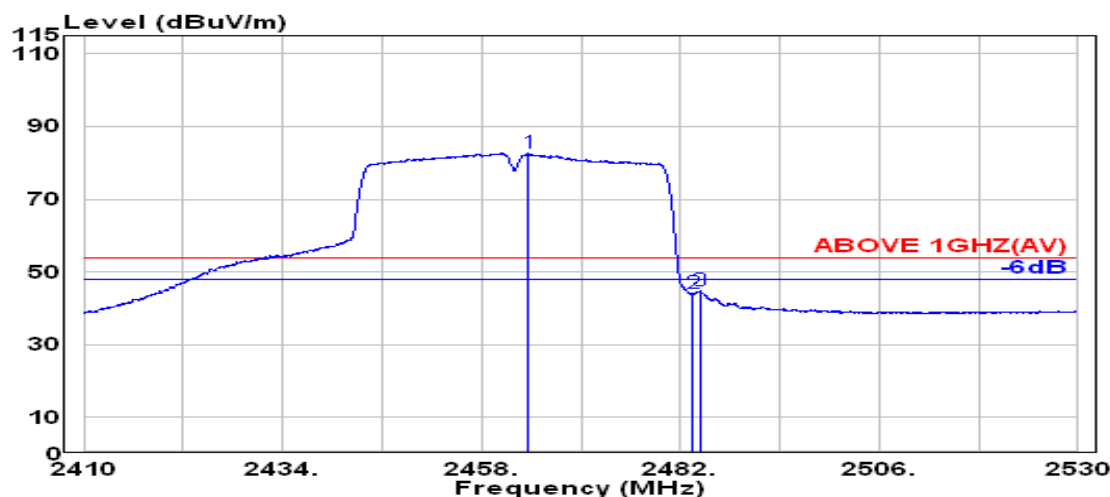
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Mode	802.11n-HT40	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2458.250	28.33	5.79	39.92	98.37	92.58	---	---	Peak
2483.500	28.43	5.83	39.92	65.59	59.93	74.00	14.07	Peak
2483.700	28.44	5.83	39.92	65.10	59.44	74.00	14.56	Peak



Antenna at Vertical Polarization

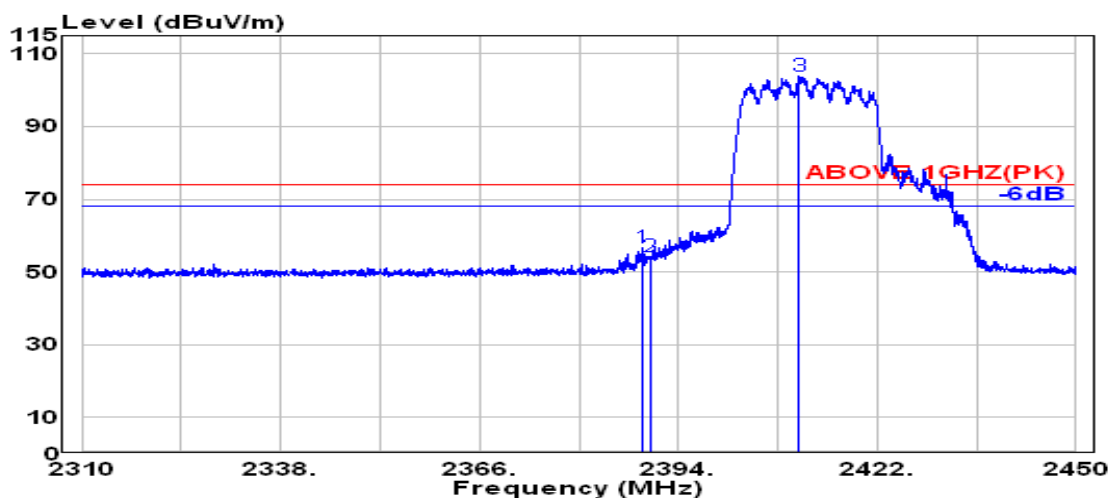
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2463.600	28.35	5.80	39.92	88.61	82.85	---	---	Average
2483.500	28.43	5.83	39.92	49.71	44.05	54.00	9.95	Average
2484.400	28.44	5.83	39.92	50.38	44.72	54.00	9.28	Average

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

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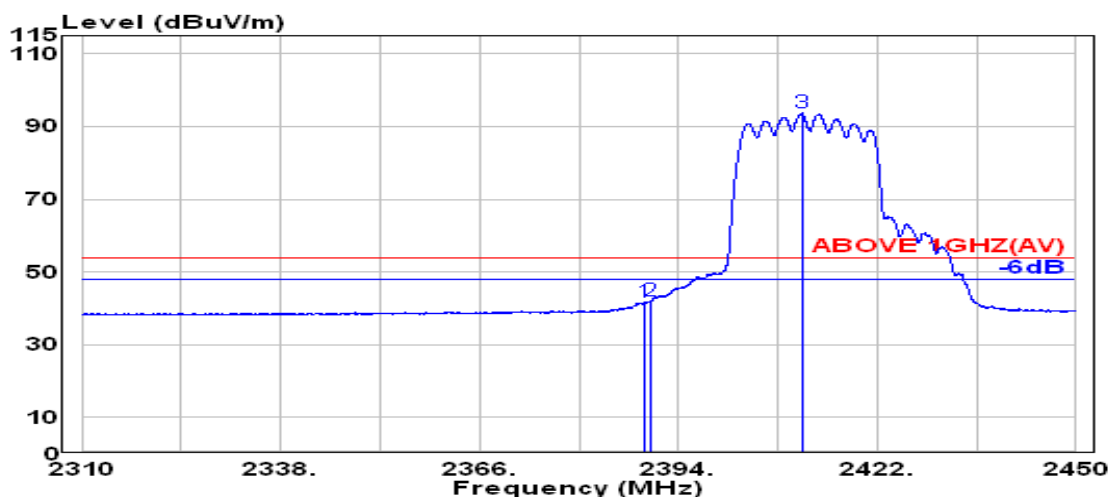
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Mode	802.11ax-HE20	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

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
2388.850	28.20	5.70	39.92	62.57	56.56	74.00	17.44	Peak
2390.000	28.20	5.70	39.92	60.20	54.18	74.00	19.82	Peak
@ 2411.000	28.22	5.73	39.92	109.86	103.89	---	---	Peak



Antenna at Horizontal Polarization

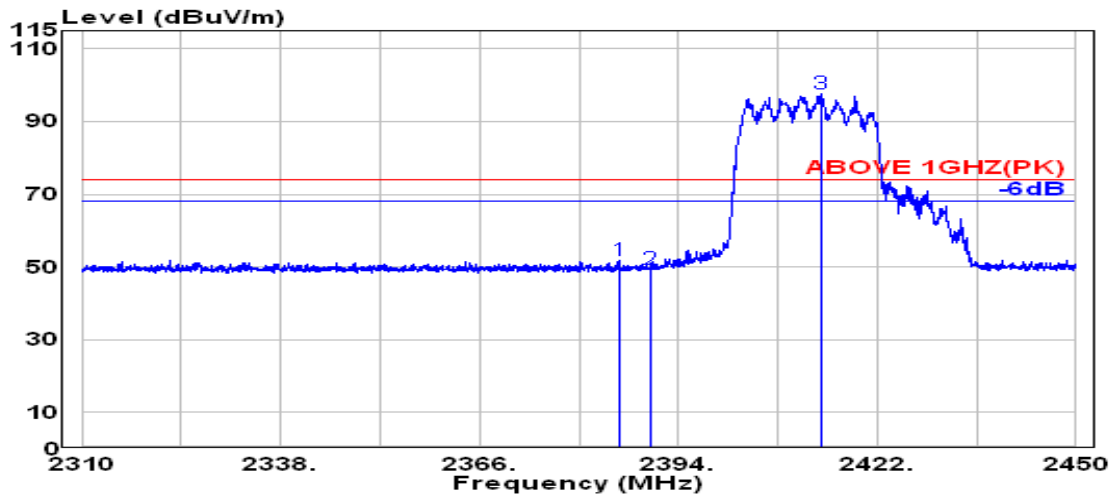
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.100	28.20	5.70	39.92	47.63	41.61	54.00	12.39	Average
2390.000	28.20	5.70	39.92	48.01	41.99	54.00	12.01	Average
@ 2411.350	28.22	5.73	39.92	99.63	93.67	---	---	Average

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

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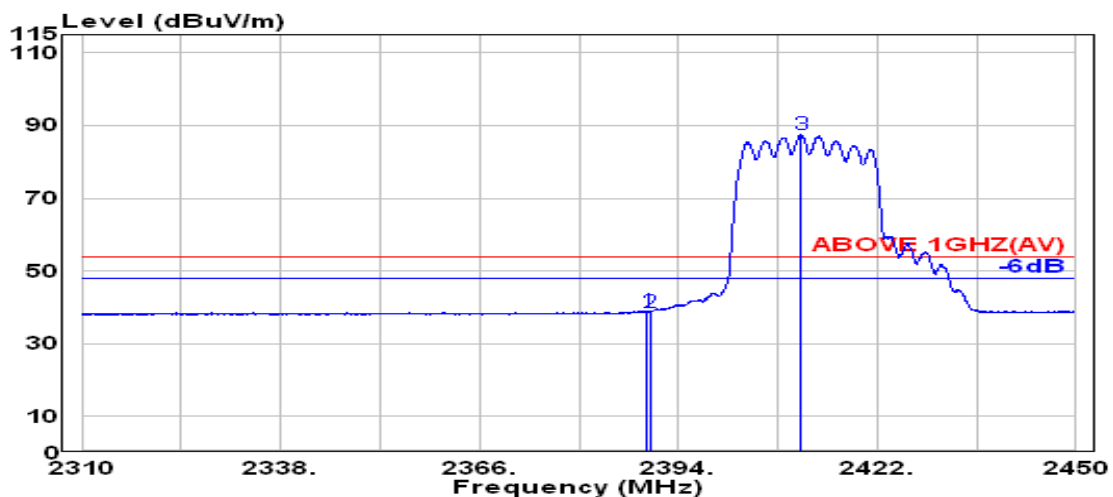
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Mode	802.11ax-HE20	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2385.600	28.20	5.70	39.92	57.83	51.81	74.00	22.19	Peak
2390.000	28.20	5.70	39.92	55.50	49.49	74.00	24.51	Peak
@ 2414.000	28.23	5.74	39.92	103.44	97.49	---	---	Peak



Antenna at Vertical Polarization

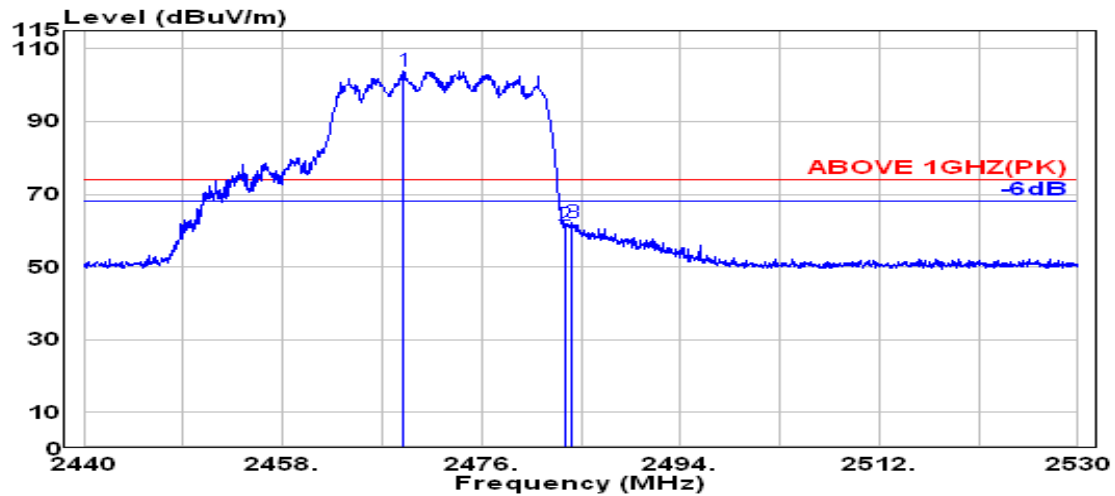
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.600	28.20	5.70	39.92	44.98	38.97	54.00	15.03	Average
2390.000	28.20	5.70	39.92	44.68	38.66	54.00	15.34	Average
@ 2411.250	28.22	5.73	39.92	93.47	87.51	---	---	Average

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

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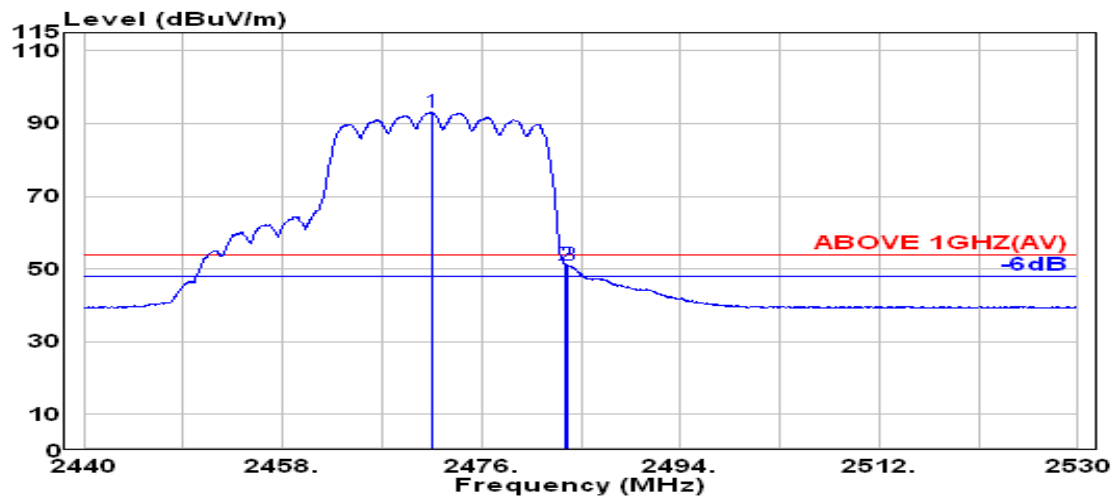
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Mode	802.11ax-HE20	Frequency	TX 2472 MHz
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Antenna at Horizontal Polarization

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
@ 2468.950	28.38	5.81	39.92	109.51	103.78	---	---	Peak
2483.500	28.43	5.83	39.92	67.16	61.50	74.00	12.50	Peak
2484.150	28.44	5.83	39.92	67.72	62.06	74.00	11.94	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
@ 2471.500	28.39	5.81	39.92	98.95	93.23	---	---	Average
2483.500	28.43	5.83	39.92	56.91	51.25	54.00	2.75	Average
2483.800	28.44	5.83	39.92	56.65	51.00	54.00	3.00	Average

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

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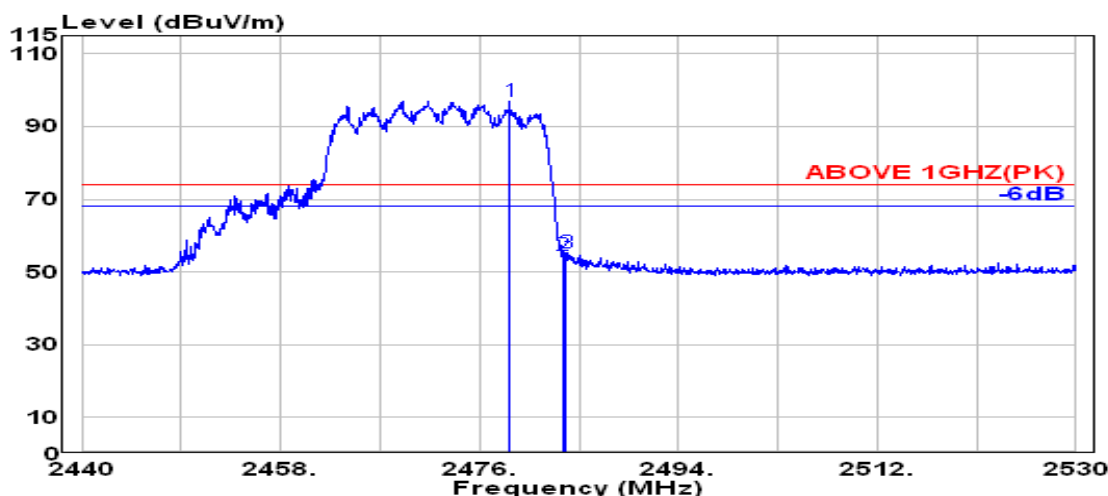
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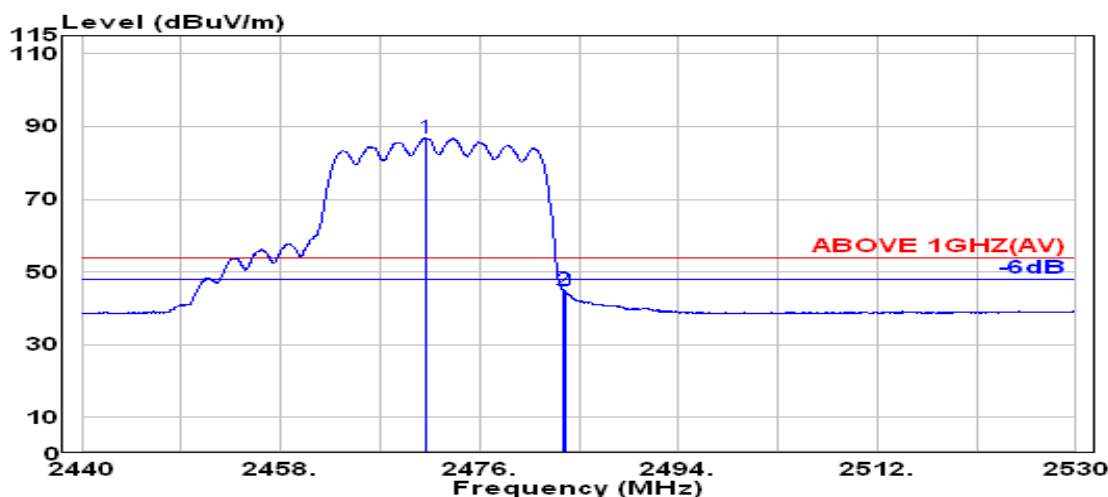
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Mode	802.11ax-HE20	Frequency	TX 2472 MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2478.700	28.42	5.82	39.92	102.69	97.01	---	---	Peak
2483.500	28.43	5.83	39.92	60.26	54.61	74.00	19.39	Peak
2483.850	28.44	5.83	39.92	60.95	55.29	74.00	18.71	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2471.100	28.38	5.81	39.92	92.62	86.90	---	---	Average
2483.500	28.43	5.83	39.92	50.68	45.02	54.00	8.98	Average
2483.700	28.44	5.83	39.92	50.32	44.66	54.00	9.34	Average

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

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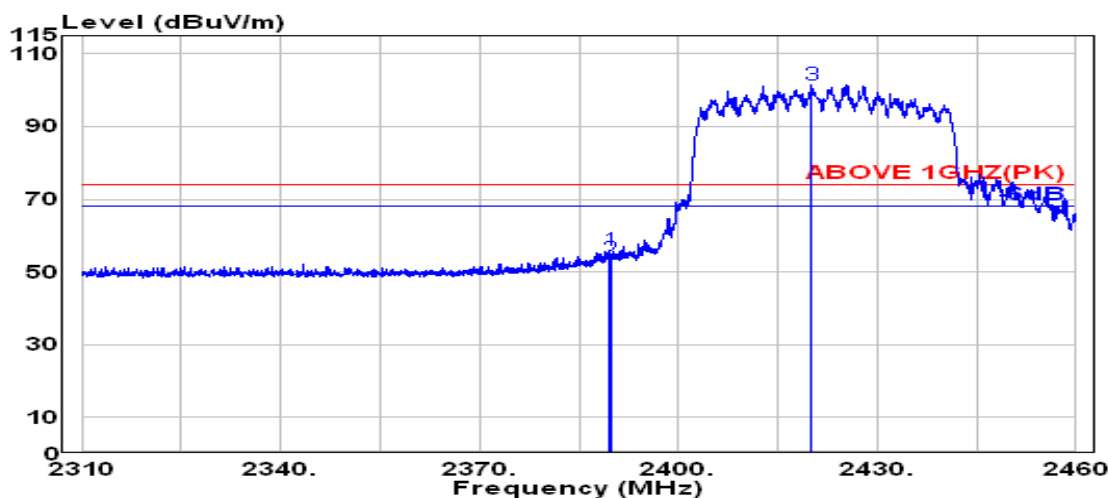
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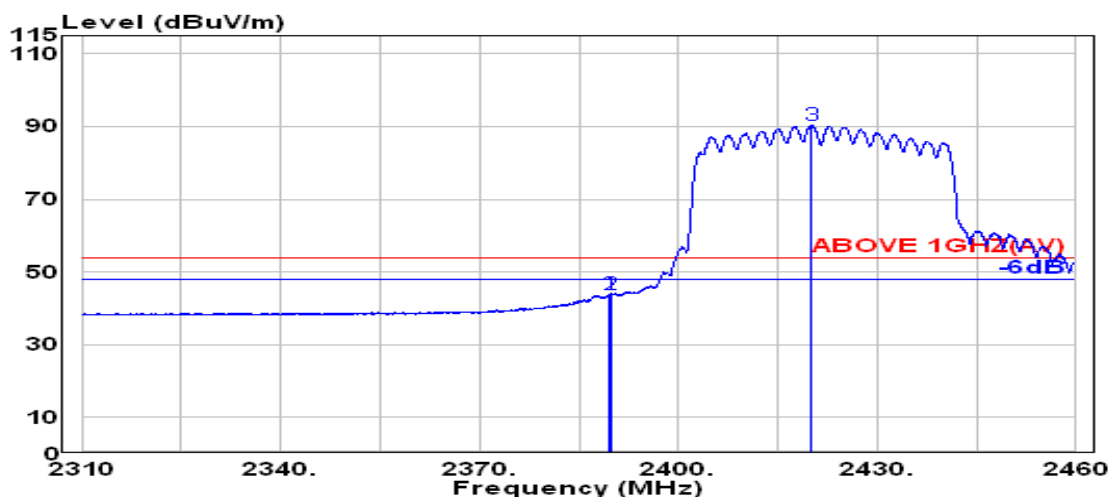
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Mode	802.11ax-HE40	Frequency	TX 2422MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.600	28.20	5.70	39.92	61.91	55.90	74.00	18.10	Peak
2389.800	28.20	5.70	39.92	59.37	53.35	74.00	20.65	Peak
@ 2420.000	28.24	5.74	39.92	107.48	101.54	---	---	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
2389.650	28.20	5.70	39.92	49.81	43.80	54.00	10.20	Average
2389.800	28.20	5.70	39.92	49.96	43.95	54.00	10.05	Average
@ 2420.050	28.24	5.74	39.92	96.33	90.40	---	---	Average

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

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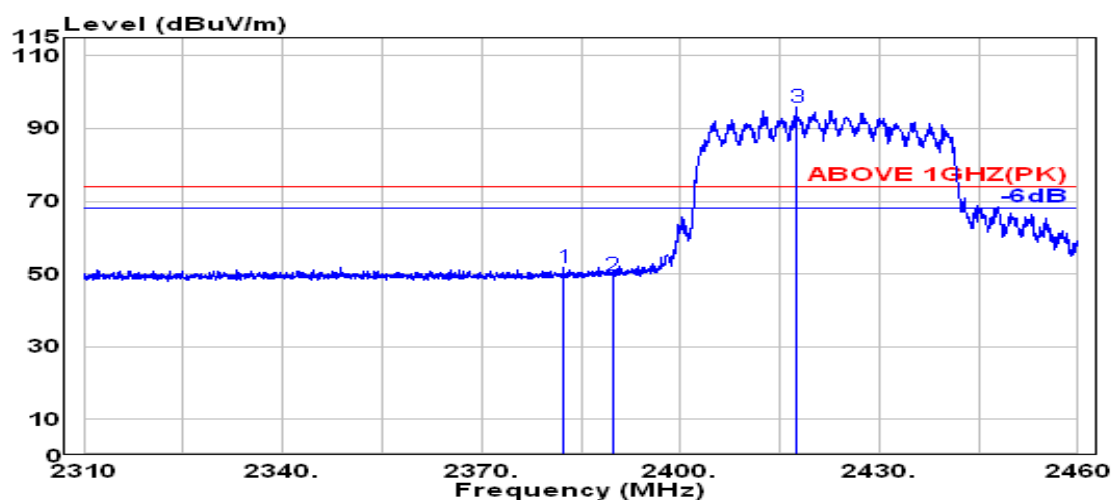
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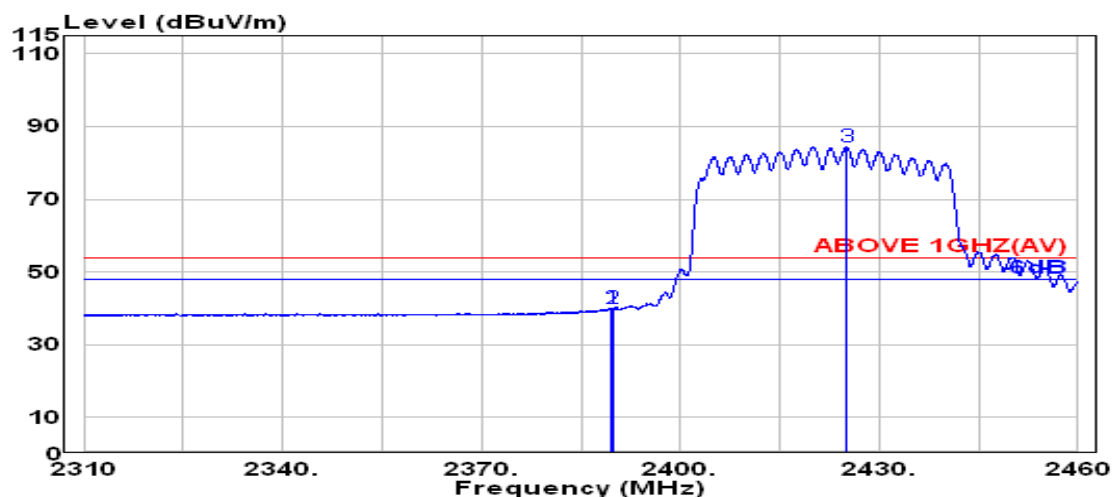
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Mode	802.11ax-HE40	Frequency	TX 2422MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2382.350	28.20	5.69	39.92	57.93	51.90	74.00	22.10	Peak
2389.800	28.20	5.70	39.92	55.66	49.65	74.00	24.35	Peak
@ 2417.500	28.24	5.74	39.92	101.82	95.88	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.600	28.20	5.70	39.92	46.08	40.07	54.00	13.93	Average
2389.800	28.20	5.70	39.92	46.02	40.01	54.00	13.99	Average
@ 2425.100	28.25	5.75	39.92	90.43	84.51	---	---	Average

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

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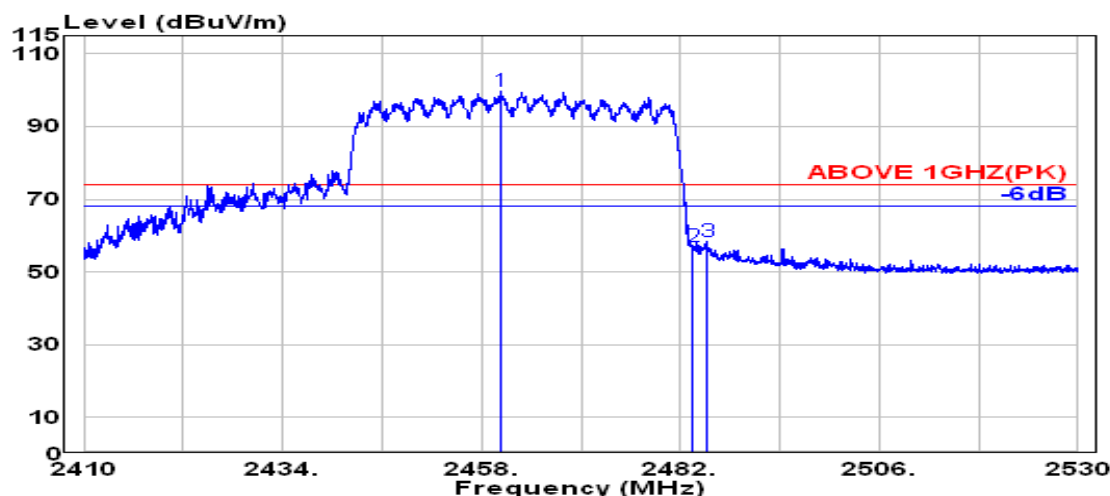
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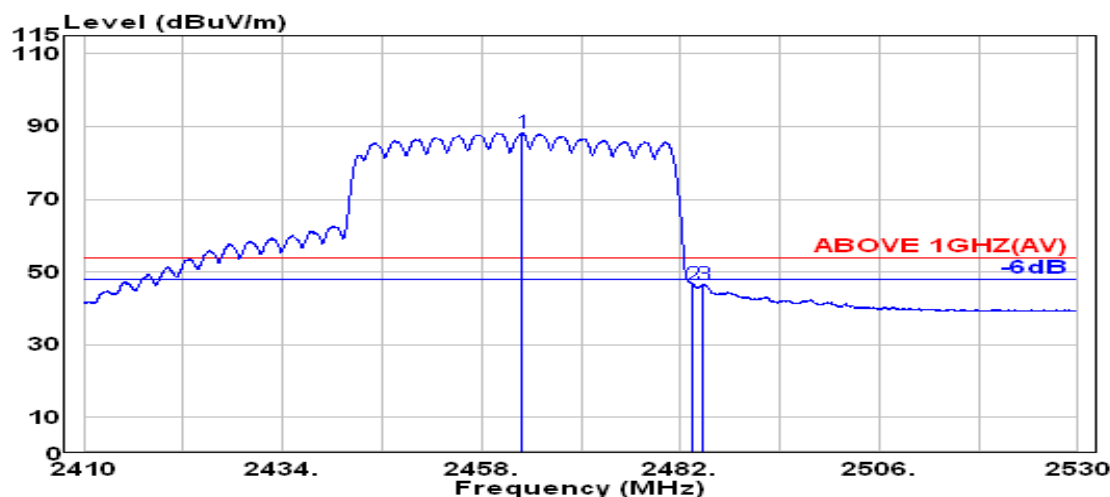
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Mode	802.11ax-HE40	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2460.300	28.34	5.80	39.92	105.40	99.62	---	---	Peak
2483.500	28.43	5.83	39.92	62.73	57.07	74.00	16.93	Peak
2485.200	28.44	5.83	39.92	63.96	58.31	74.00	15.69	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
@ 2462.850	28.35	5.80	39.92	93.97	88.21	---	---	Average
2483.500	28.43	5.83	39.92	52.37	46.72	54.00	7.28	Average
2484.750	28.44	5.83	39.92	52.23	46.58	54.00	7.42	Average

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

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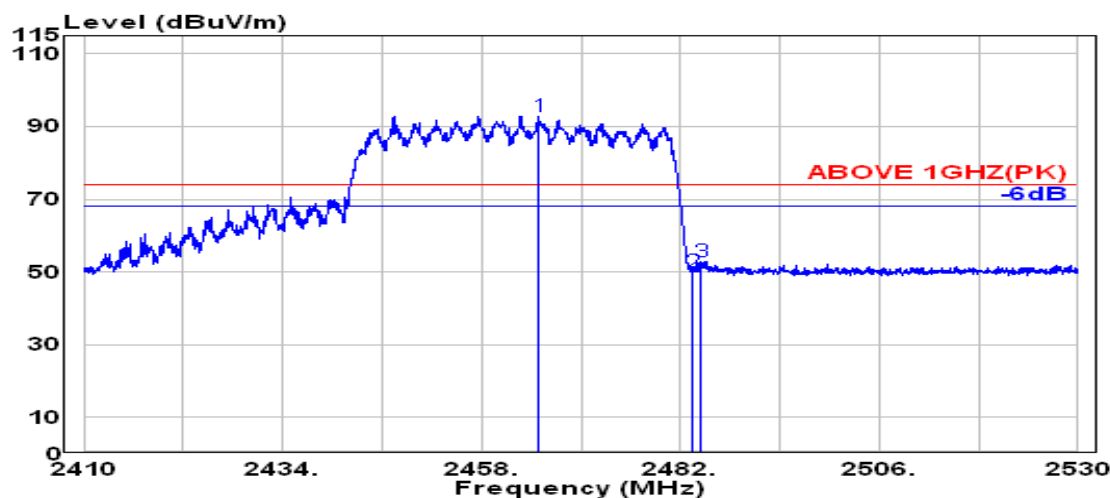
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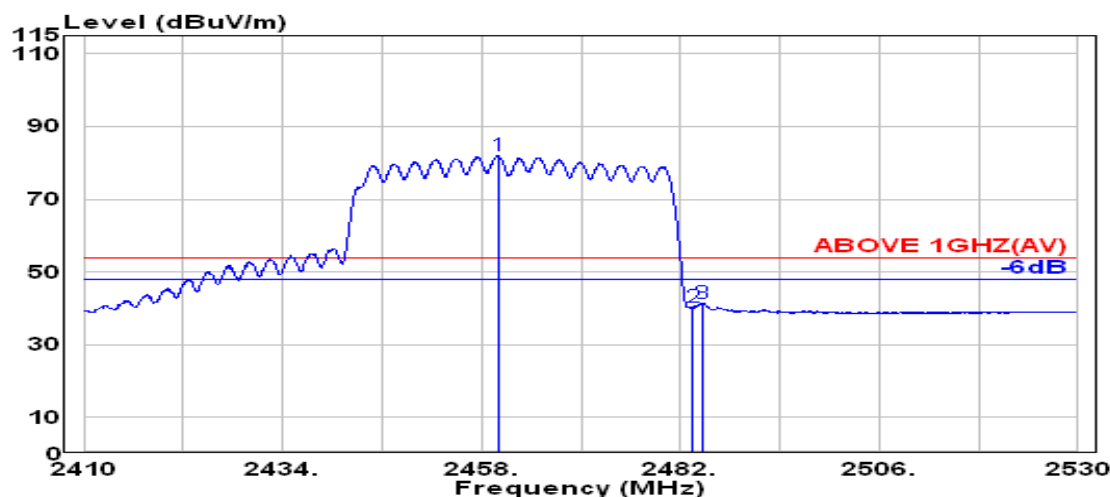
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Mode	802.11ax-HE40	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

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
@ 2464.900	28.36	5.80	39.92	98.52	92.76	---	---	Peak
2483.500	28.43	5.83	39.92	55.83	50.17	74.00	23.83	Peak
2484.450	28.44	5.83	39.92	58.38	52.73	74.00	21.27	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
@ 2460.000	28.34	5.80	39.92	87.70	81.92	---	---	Average
2483.500	28.43	5.83	39.92	45.87	40.22	54.00	13.78	Average
2484.650	28.44	5.83	39.92	47.07	41.42	54.00	12.58	Average

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

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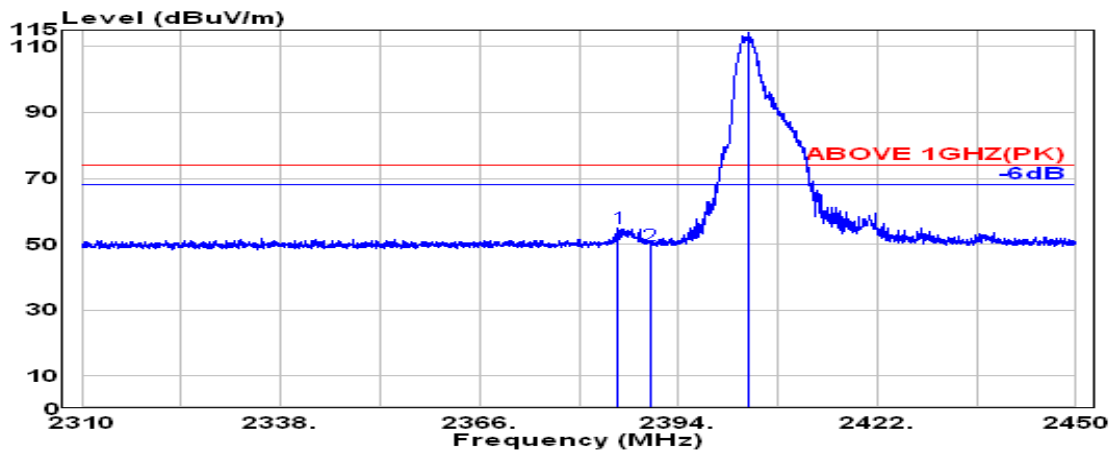
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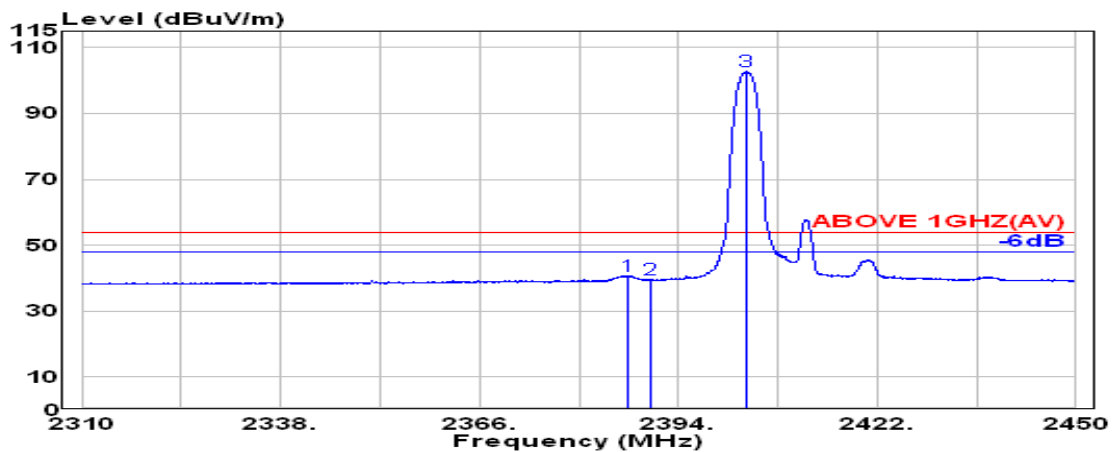
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Mode	802.11ax-HE20	Frequency	TX 2412 MHz
RU Configuration	26/0		



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
2385.550	28.20	5.70	39.92	60.94	54.92	74.00	19.08	Peak
2390.000	28.20	5.70	39.92	55.58	49.57	74.00	24.43	Peak
@ 2403.850	28.21	5.72	39.92	120.44	114.45	---	---	Peak



Antenna at Horizontal Polarization

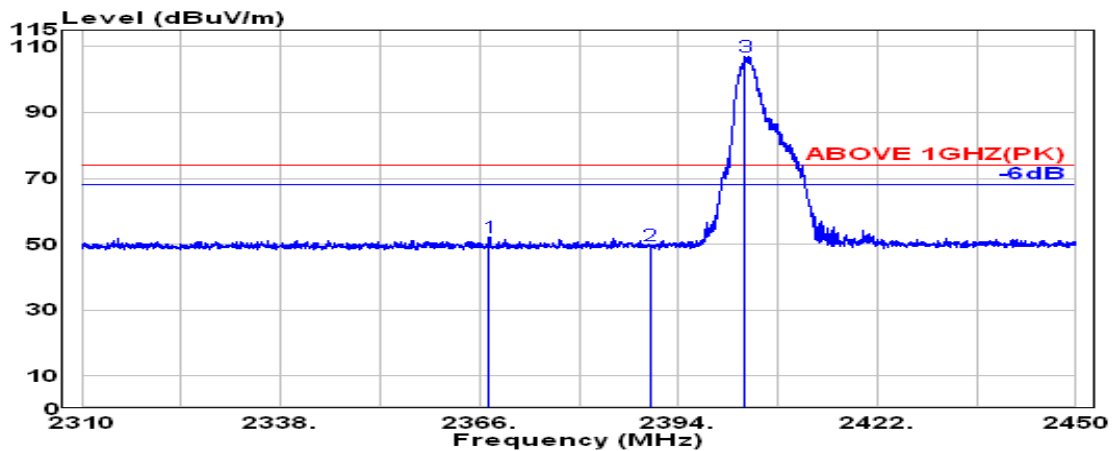
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2386.800	28.20	5.70	39.92	46.74	40.72	54.00	13.28	Average
2390.000	28.20	5.70	39.92	45.50	39.49	54.00	14.51	Average
@ 2403.550	28.21	5.72	39.92	108.78	102.79	---	---	Average

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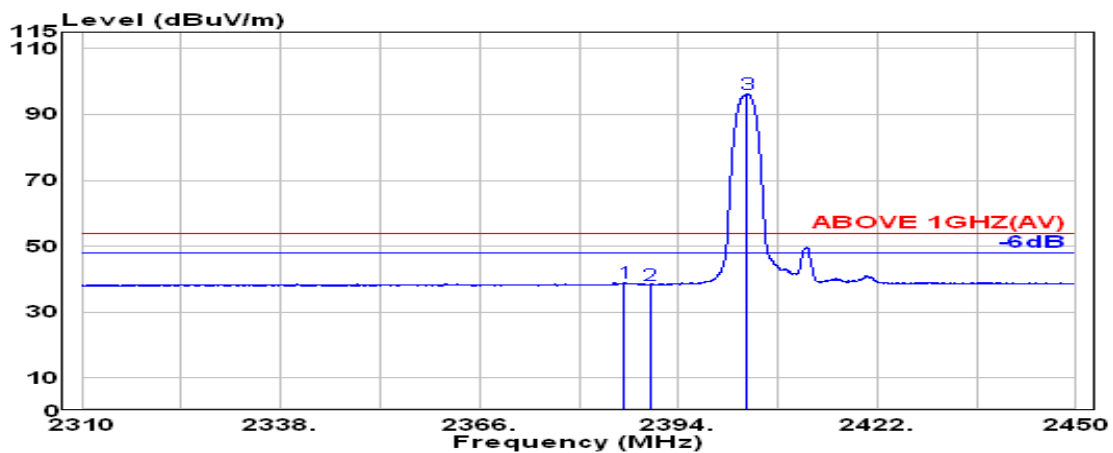
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Mode	802.11ax-HE20	Frequency	TX 2412 MHz
RU Configuration	26/0		



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2367.350	28.20	5.67	39.92	58.07	52.02	74.00	21.98	Peak
2390.000	28.20	5.70	39.92	55.82	49.81	74.00	24.19	Peak
@ 2403.350	28.21	5.72	39.92	113.05	107.06	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2386.300	28.20	5.70	39.92	45.11	39.09	54.00	14.91	Average
2390.000	28.20	5.70	39.92	44.31	38.29	54.00	15.71	Average
@ 2403.700	28.21	5.72	39.92	102.20	96.21	---	---	Average

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

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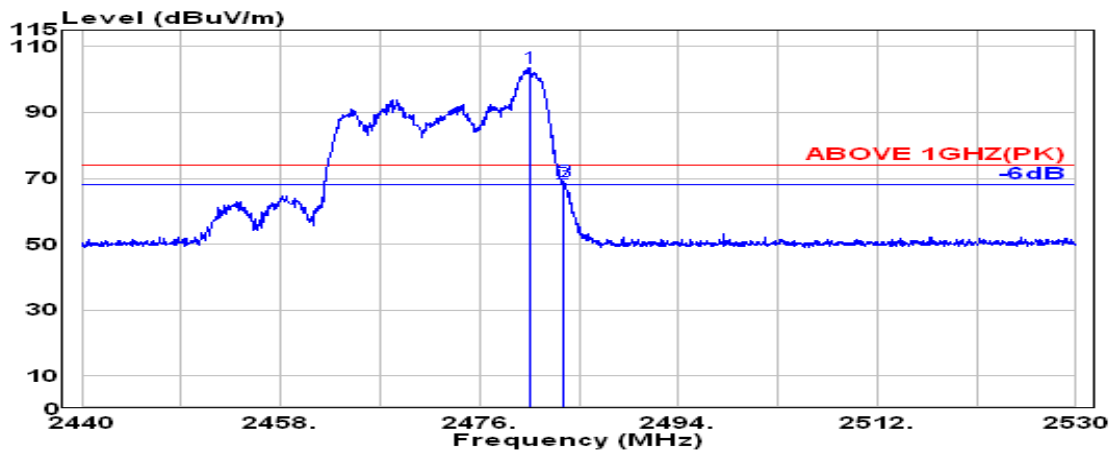
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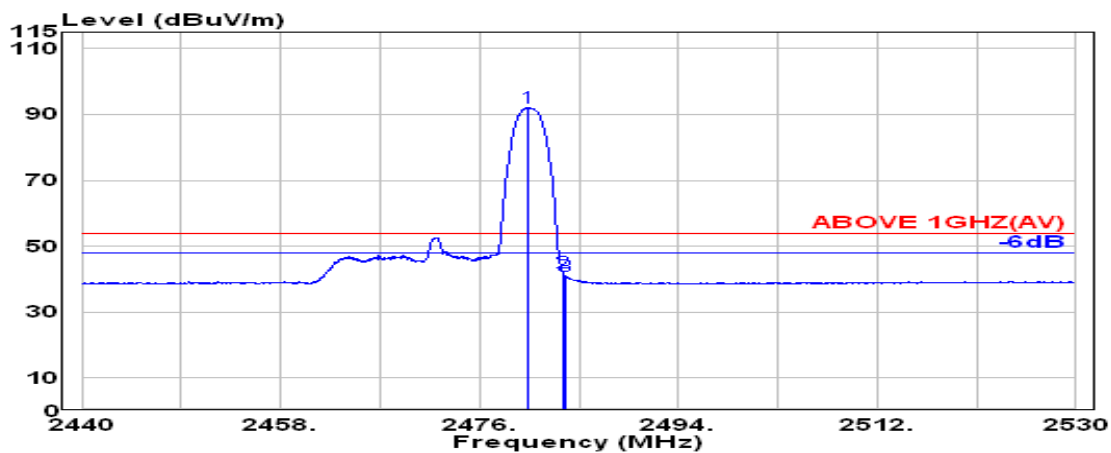
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Mode	802.11ax-HE20	Frequency	TX 2472 MHz
RU Configuration	26/8		



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
@ 2480.500	28.42	5.82	39.92	109.28	103.61	---	---	Peak
2483.500	28.43	5.83	39.92	74.22	68.56	74.00	5.44	Peak
2483.650	28.44	5.83	39.92	74.95	69.30	74.00	4.70	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
@ 2480.300	28.42	5.82	39.92	97.65	91.98	---	---	Average
2483.500	28.43	5.83	39.92	47.56	41.90	54.00	12.10	Average
2483.700	28.44	5.83	39.92	46.52	40.87	54.00	13.13	Average

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

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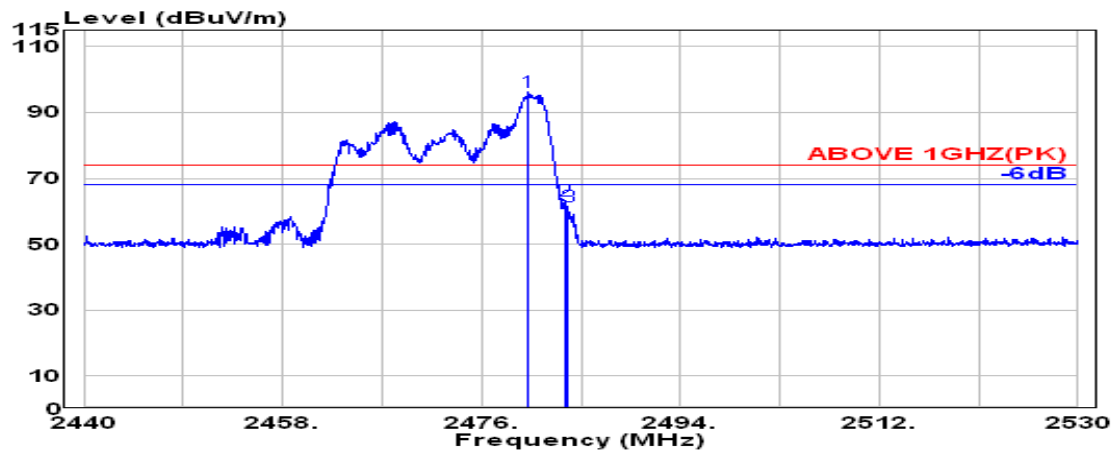
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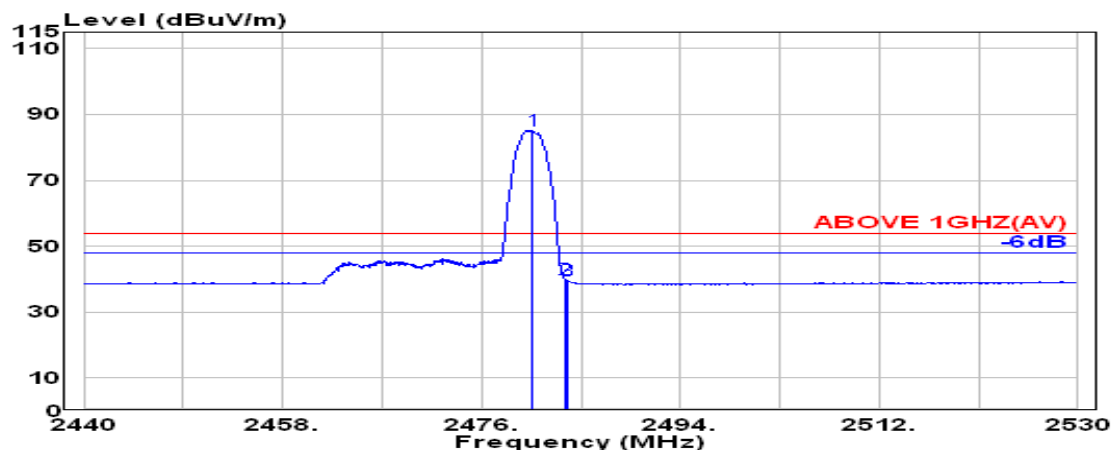
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Mode	802.11ax-HE20	Frequency	TX 2472 MHz
RU Configuration	26/8		



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.150	28.42	5.82	39.92	102.10	96.42	---	---	Peak
2483.500	28.43	5.83	39.92	68.91	63.25	74.00	10.75	Peak
2483.800	28.44	5.83	39.92	67.23	61.57	74.00	12.43	Peak



Antenna at Vertical Polarization

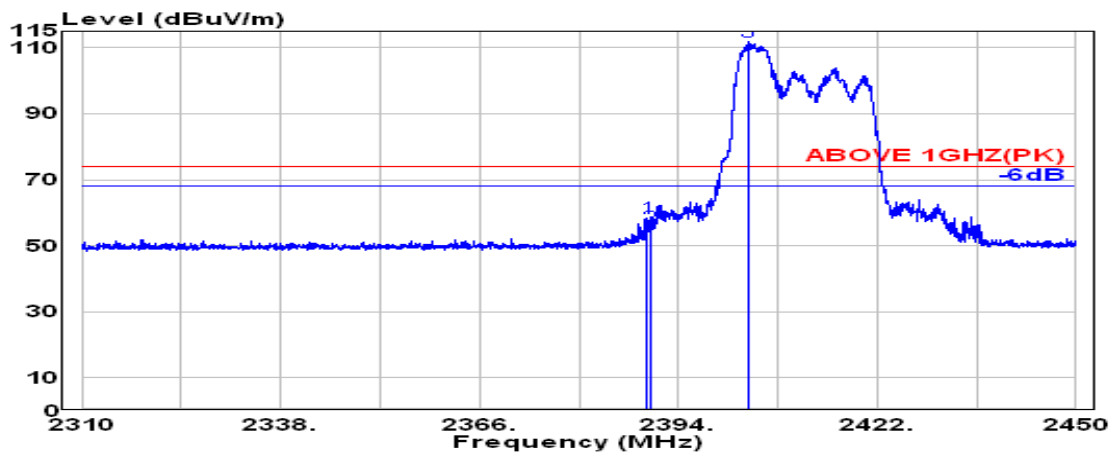
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@ 2480.600	28.42	5.82	39.92	90.95	85.28	---	---	Average
2483.500	28.43	5.83	39.92	45.74	40.08	54.00	13.92	Average
2483.700	28.44	5.83	39.92	45.16	39.50	54.00	14.50	Average

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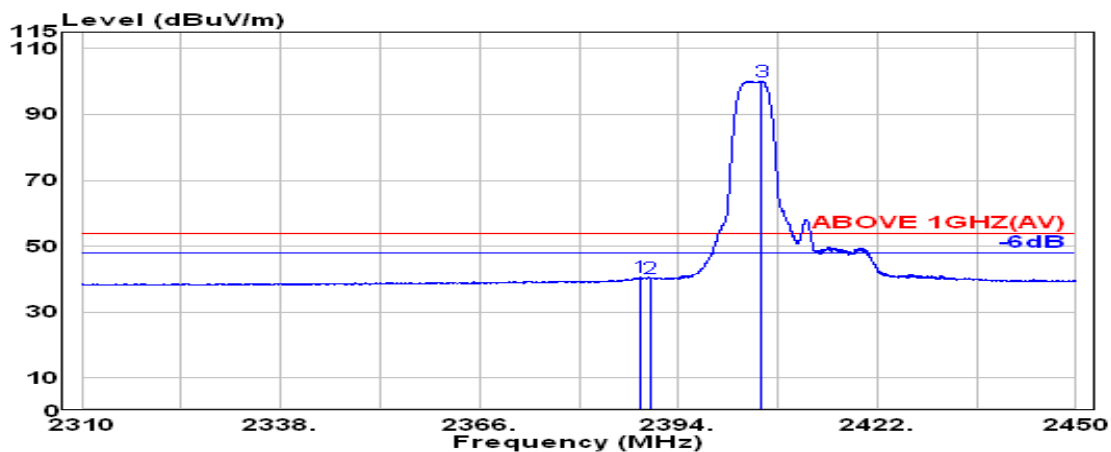
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Mode	802.11ax-HE20	Frequency	TX 2412 MHz
RU Configuration	52/37		



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
2389.600	28.20	5.70	39.92	64.45	58.44	74.00	15.56	Peak
2390.000	28.20	5.70	39.92	61.70	55.69	74.00	18.31	Peak
@ 2403.850	28.21	5.72	39.92	117.86	111.87	---	---	Peak



Antenna at Horizontal Polarization

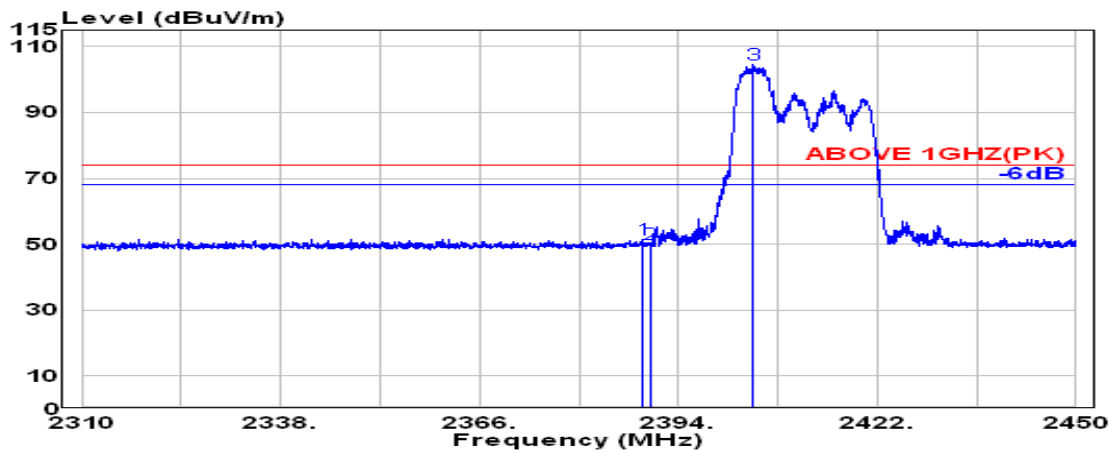
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2388.550	28.20	5.70	39.92	46.55	40.53	54.00	13.47	Average
2390.000	28.20	5.70	39.92	46.30	40.29	54.00	13.71	Average
@ 2405.650	28.21	5.72	39.92	106.12	100.14	---	---	Average

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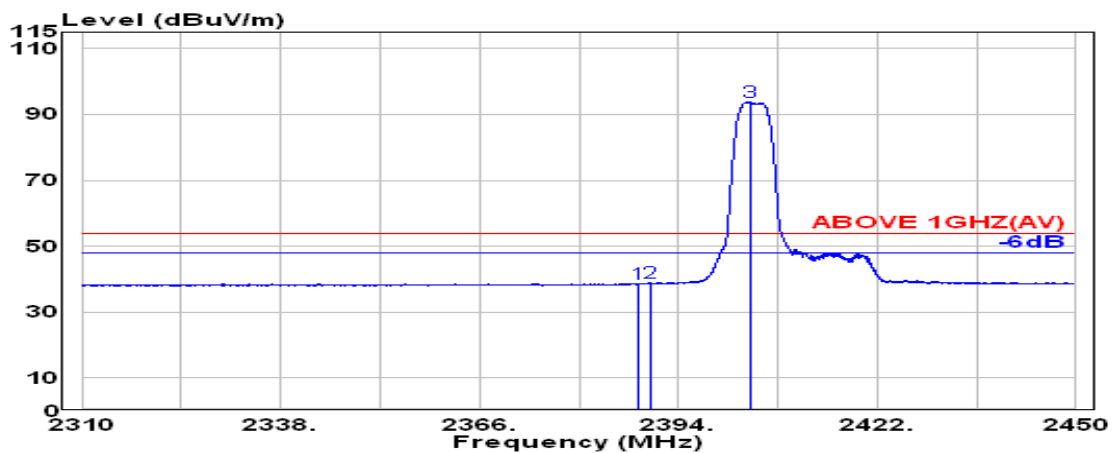
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Mode	802.11ax-HE20	Frequency	TX 2412 MHz
RU Configuration	52/37		



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 (dBμV/m)	Margin (dB)	Detector
2389.000	28.20	5.70	39.92	57.44	51.42	74.00	22.58	Peak
2390.000	28.20	5.70	39.92	56.02	50.00	74.00	24.00	Peak
@ 2404.550	28.21	5.72	39.92	110.48	104.49	---	---	Peak



Antenna at Vertical Polarization

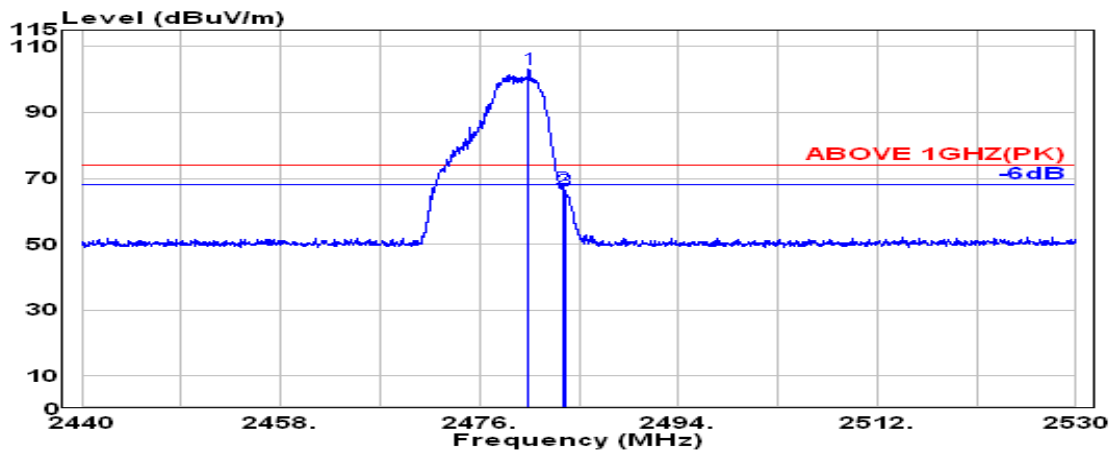
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2388.200	28.20	5.70	39.92	44.75	38.74	54.00	15.26	Average
2390.000	28.20	5.70	39.92	44.78	38.77	54.00	15.23	Average
@ 2404.100	28.21	5.72	39.92	99.98	93.99	---	---	Average

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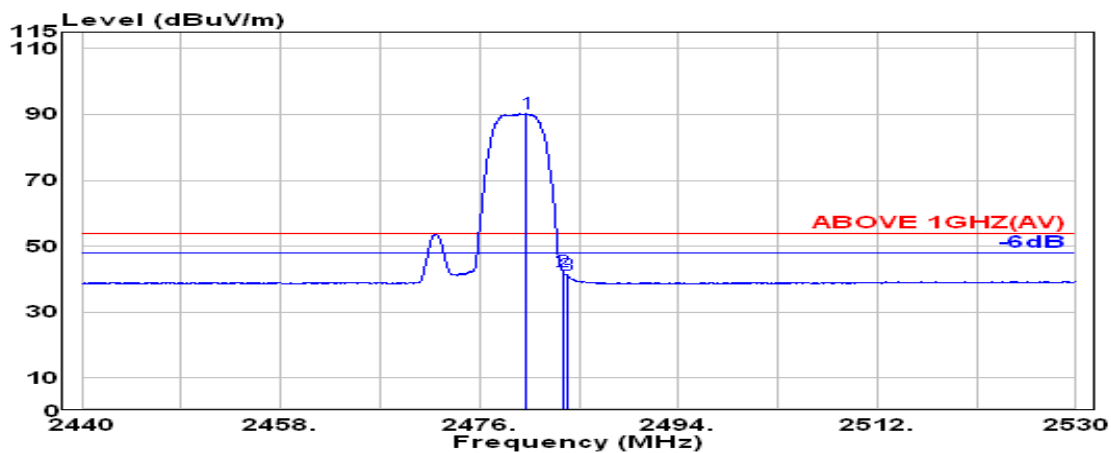
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Mode	802.11ax-HE20	Frequency	TX 2472 MHz
RU Configuration	52/40		



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.450	28.42	5.82	39.92	108.90	103.22	---	---	Peak
2483.500	28.43	5.83	39.92	72.60	66.95	74.00	7.05	Peak
2483.750	28.44	5.83	39.92	72.05	66.39	74.00	7.61	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
@ 2480.200	28.42	5.82	39.92	95.98	90.31	---	---	Average
2483.500	28.43	5.83	39.92	48.17	42.51	54.00	11.49	Average
2483.900	28.44	5.83	39.92	47.09	41.44	54.00	12.56	Average

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

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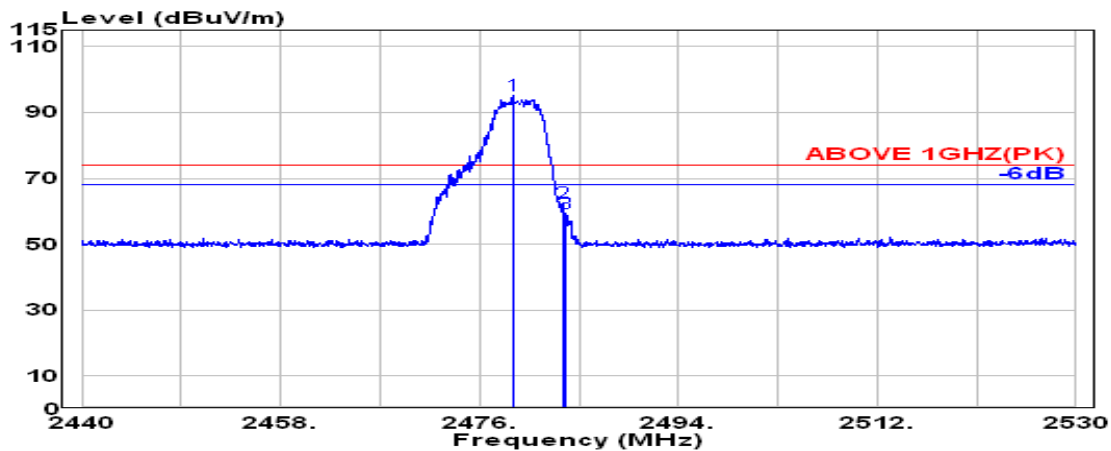
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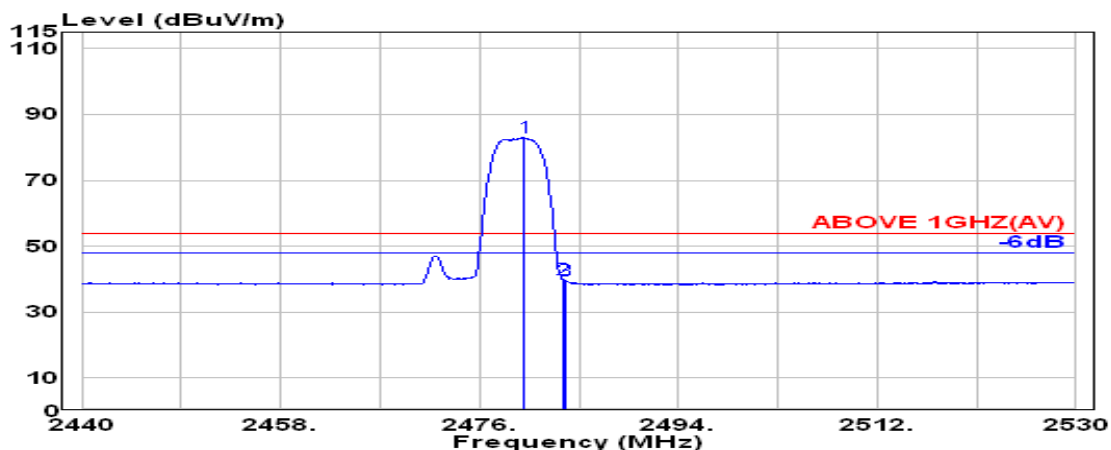
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Mode	802.11ax-HE20	Frequency	TX 2472 MHz
RU Configuration	52/40		



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.050	28.42	5.82	39.92	100.84	95.16	---	---	Peak
2483.500	28.43	5.83	39.92	68.38	62.72	74.00	11.28	Peak
2483.750	28.44	5.83	39.92	64.94	59.29	74.00	14.71	Peak



Antenna at Vertical Polarization

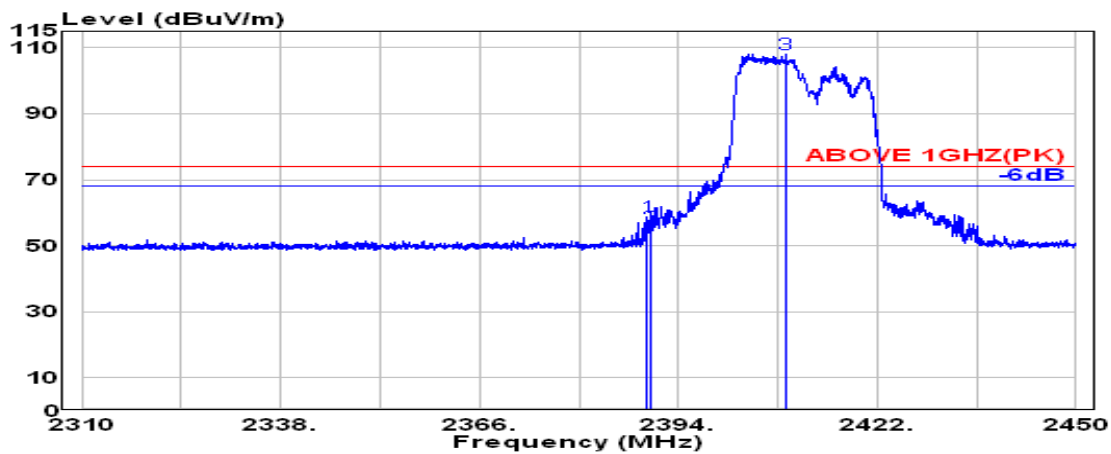
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.000	28.42	5.82	39.92	88.68	83.01	---	---	Average
2483.500	28.43	5.83	39.92	45.69	40.03	54.00	13.97	Average
2483.700	28.44	5.83	39.92	45.21	39.55	54.00	14.45	Average

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

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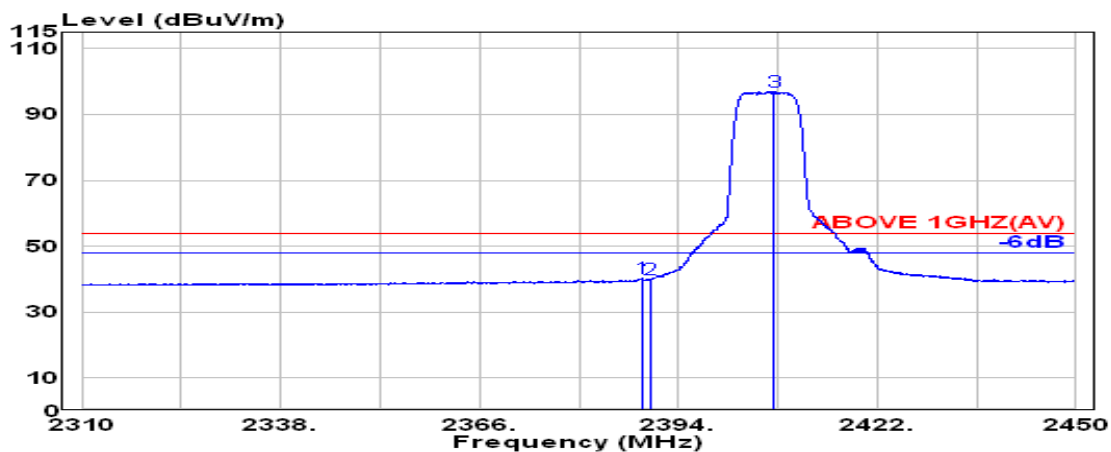
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Mode	802.11ax-HE20	Frequency	TX 2412MHz
RU Configuration	106/53		



Antenna at 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
2389.600	28.20	5.70	39.92	64.70	58.68	74.00	15.32	Peak
2390.000	28.20	5.70	39.92	61.78	55.76	74.00	18.24	Peak
@ 2409.050	28.22	5.73	39.92	114.03	108.06	---	---	Peak



Antenna at Horizontal Polarization

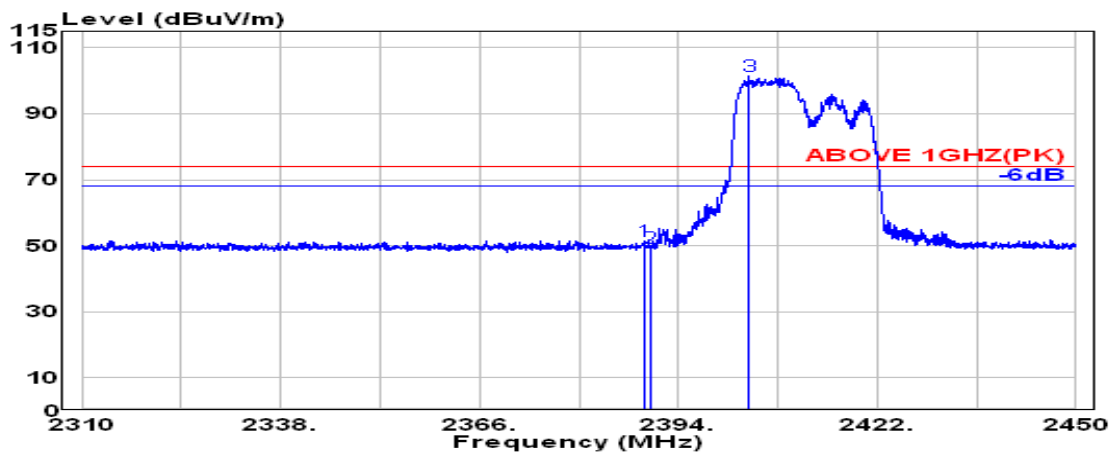
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2388.800	28.20	5.70	39.92	46.27	40.25	54.00	13.75	Average
2390.000	28.20	5.70	39.92	45.99	39.98	54.00	14.02	Average
@ 2407.500	28.22	5.73	39.92	103.04	97.06	---	---	Average

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

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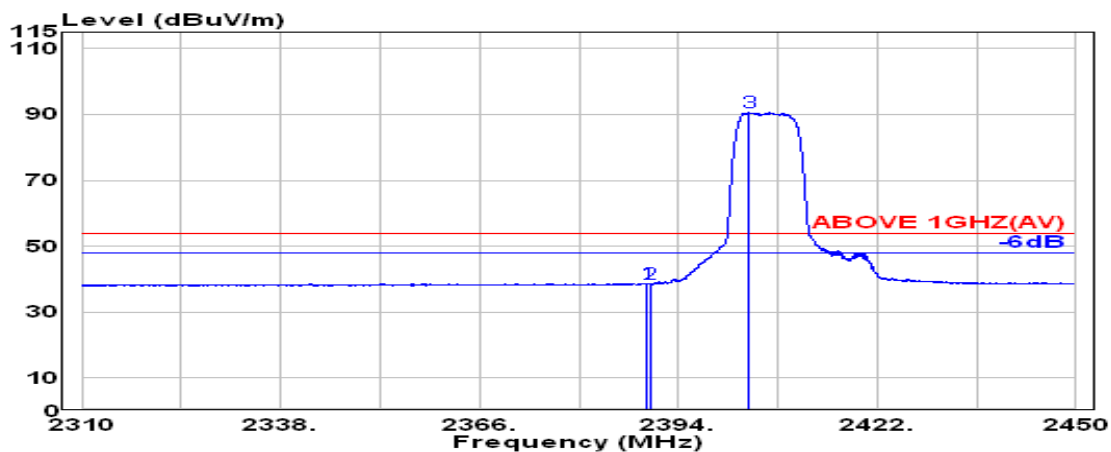
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Mode	802.11ax-HE20	Frequency	TX 2412MHz
RU Configuration	106/53		



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.200	28.20	5.70	39.92	57.57	51.56	74.00	22.44	Peak
2390.000	28.20	5.70	39.92	55.39	49.37	74.00	24.63	Peak
@ 2403.900	28.21	5.72	39.92	107.29	101.30	---	---	Peak



Antenna at Vertical Polarization

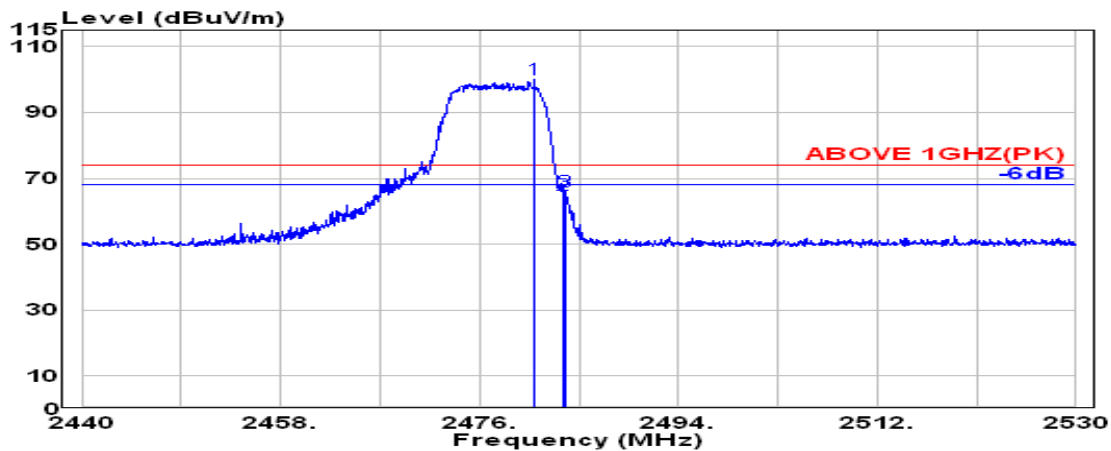
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2389.550	28.20	5.70	39.92	44.67	38.66	54.00	15.34	Average
2390.000	28.20	5.70	39.92	44.53	38.52	54.00	15.48	Average
@ 2403.950	28.21	5.72	39.92	96.65	90.67	---	---	Average

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

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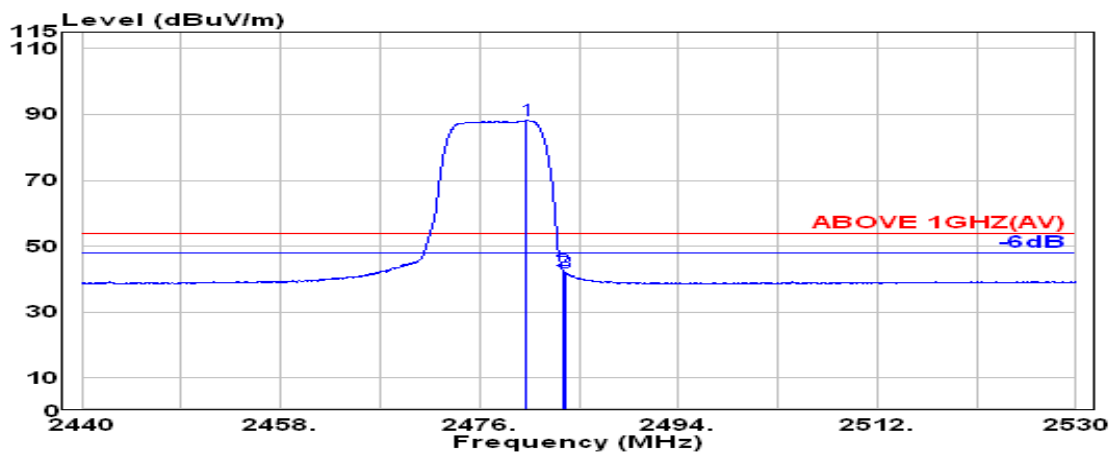
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Mode	802.11ax-HE20	Frequency	TX 2472MHz
RU Configuration	106/54		



Antenna at 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
@ 2480.900	28.42	5.82	39.92	105.85	100.18	---	---	Peak
2483.500	28.43	5.83	39.92	70.81	65.15	74.00	8.85	Peak
2483.700	28.44	5.83	39.92	71.55	65.90	74.00	8.10	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
@ 2480.250	28.42	5.82	39.92	93.93	88.25	---	---	Average
2483.500	28.43	5.83	39.92	48.57	42.91	54.00	11.09	Average
2483.700	28.44	5.83	39.92	47.77	42.12	54.00	11.88	Average

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

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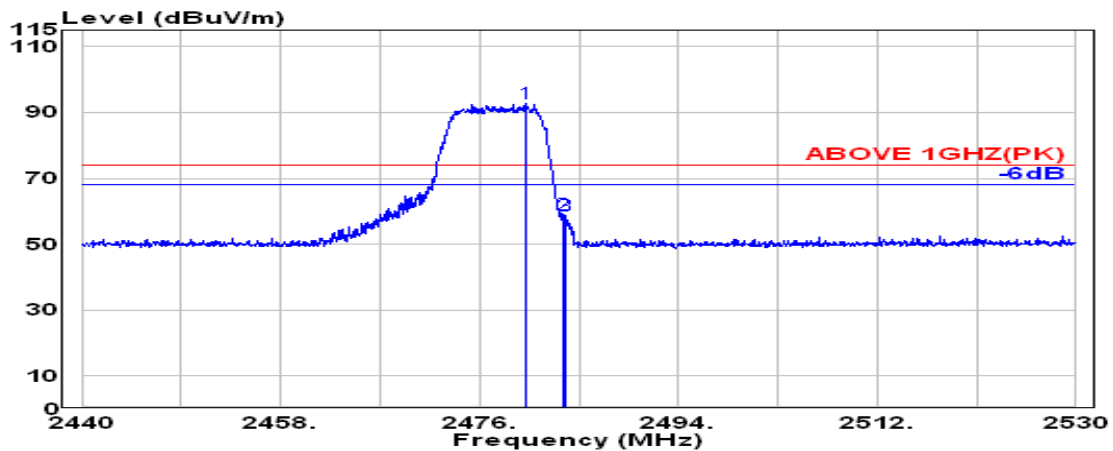
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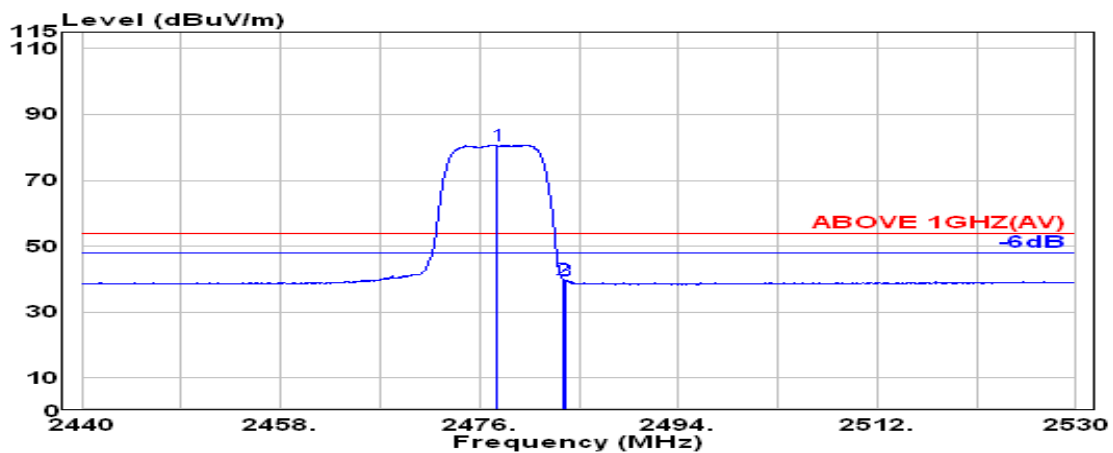
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Mode	802.11ax-HE20	Frequency	TX 2472MHz
RU Configuration	106/54		



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.150	28.42	5.82	39.92	98.54	92.87	---	---	Peak
2483.500	28.43	5.83	39.92	64.78	59.12	74.00	14.88	Peak
2483.700	28.44	5.83	39.92	64.32	58.67	74.00	15.33	Peak



Antenna at Vertical Polarization

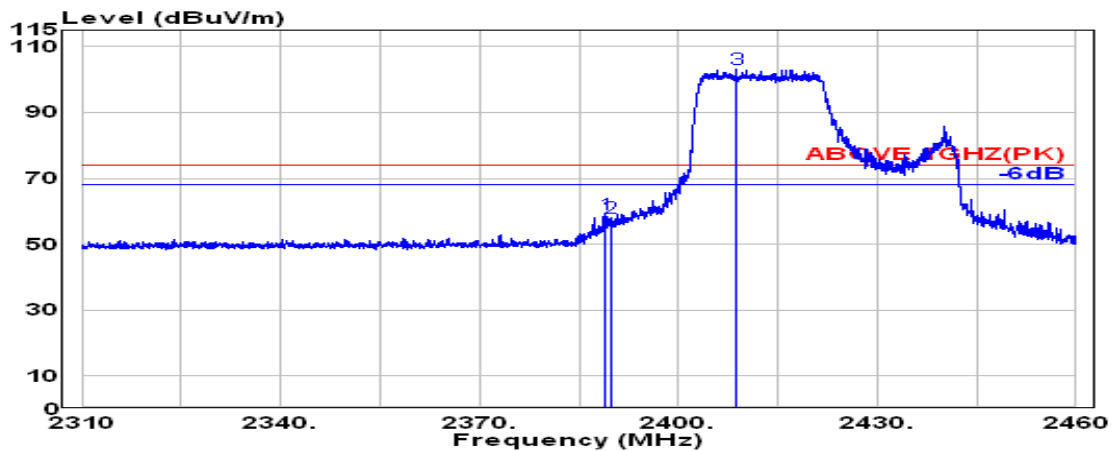
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2477.550	28.41	5.82	39.92	86.42	80.73	---	---	Average
2483.500	28.43	5.83	39.92	45.61	39.95	54.00	14.05	Average
2483.700	28.44	5.83	39.92	45.26	39.61	54.00	14.39	Average

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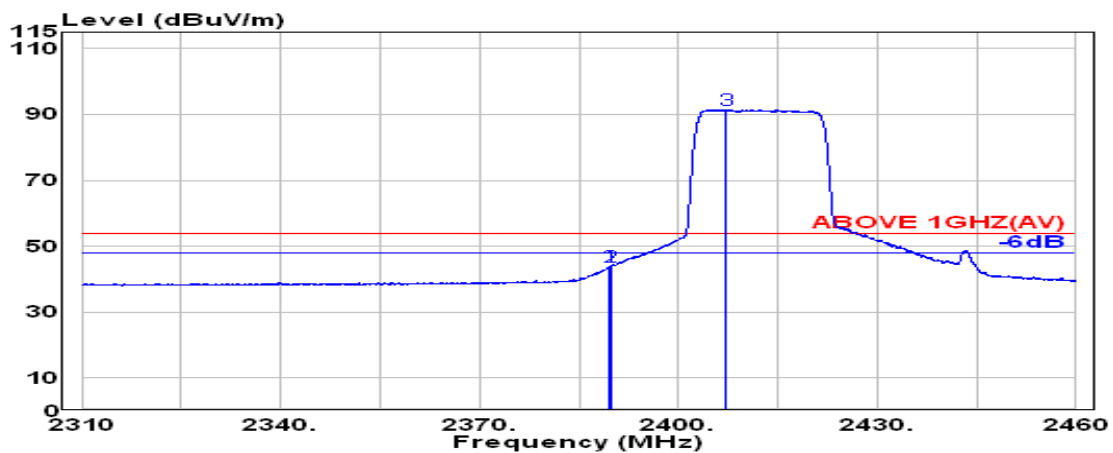
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Mode	802.11ax-HE40	Frequency	TX 2422MHz
RU Configuration	242/61		



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.050	28.20	5.70	39.92	64.96	58.95	74.00	15.05	Peak
2389.800	28.20	5.70	39.92	64.04	58.03	74.00	15.97	Peak
@ 2408.750	28.22	5.73	39.92	109.23	103.26	---	---	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	5.70	39.92	49.70	43.69	54.00	10.31	Average
2389.800	28.20	5.70	39.92	49.97	43.95	54.00	10.05	Average
@ 2407.200	28.21	5.73	39.92	97.52	91.54	---	---	Average

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

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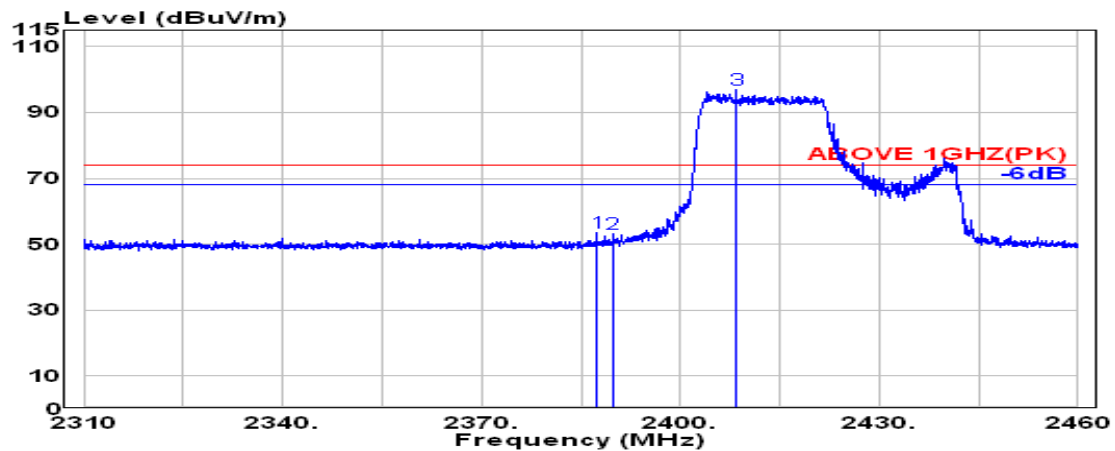
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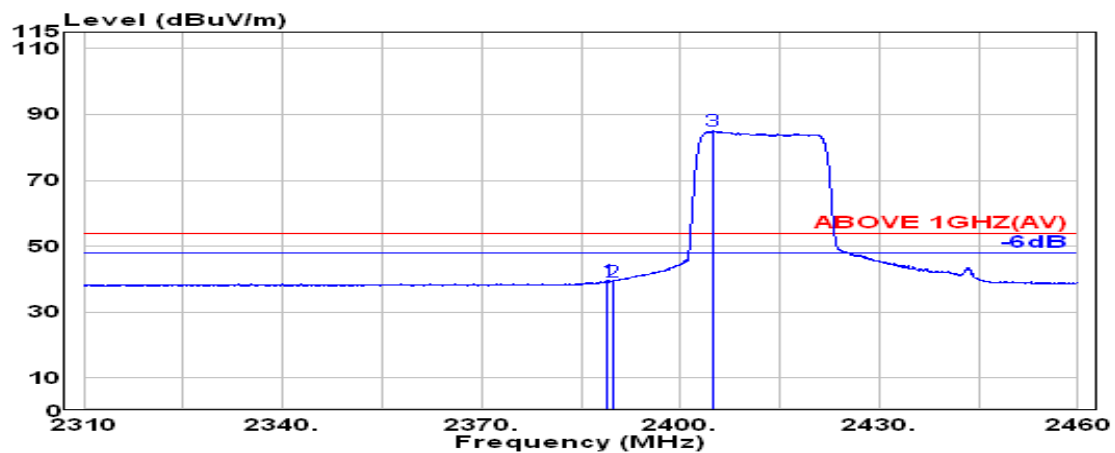
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Mode	802.11ax-HE40	Frequency	TX 2422MHz
RU Configuration	242/61		



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.350	28.20	5.70	39.92	59.39	53.38	74.00	20.62	Peak
2389.800	28.20	5.70	39.92	59.23	53.22	74.00	20.78	Peak
@ 2408.400	28.22	5.73	39.92	102.91	96.94	---	---	Peak



Antenna at Vertical Polarization

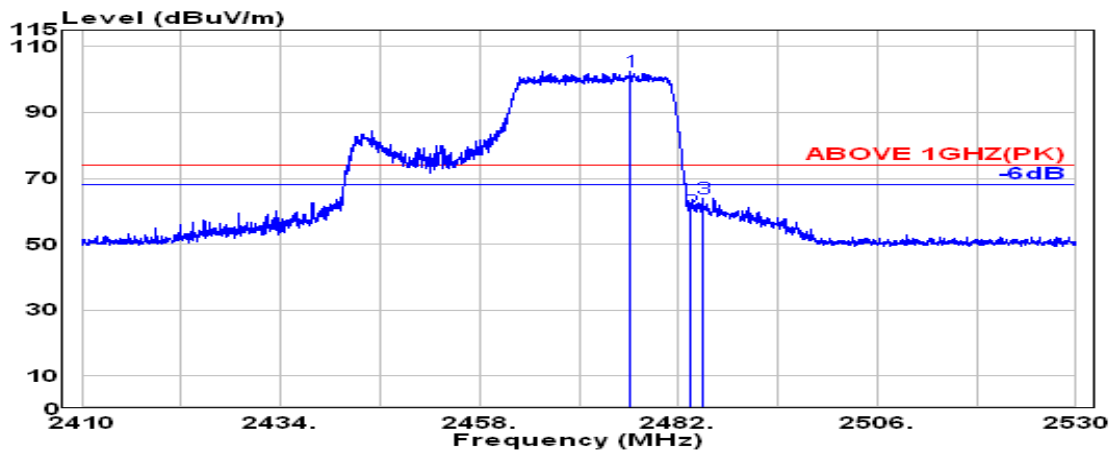
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2389.050	28.20	5.70	39.92	45.54	39.52	54.00	14.48	Average
2389.800	28.20	5.70	39.92	45.42	39.40	54.00	14.60	Average
@ 2404.800	28.21	5.72	39.92	90.96	84.98	---	---	Average

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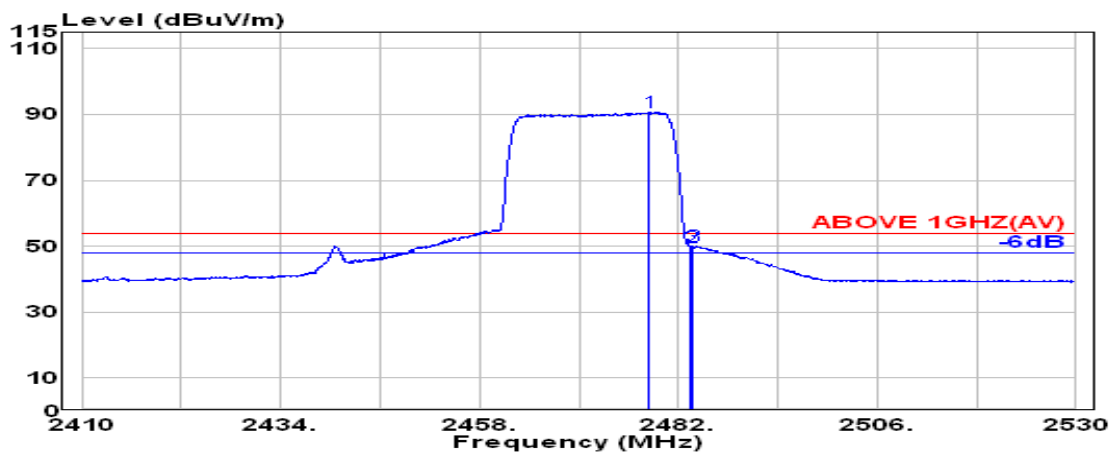
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Mode	802.11ax-HE40	Frequency	TX 2462MHz
RU Configuration	242/62		



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2476.200	28.41	5.82	39.92	108.26	102.56	---	---	Peak
2483.500	28.43	5.83	39.92	65.62	59.97	74.00	14.03	Peak
2485.000	28.44	5.83	39.92	69.73	64.08	74.00	9.92	Peak



Antenna at Horizontal Polarization

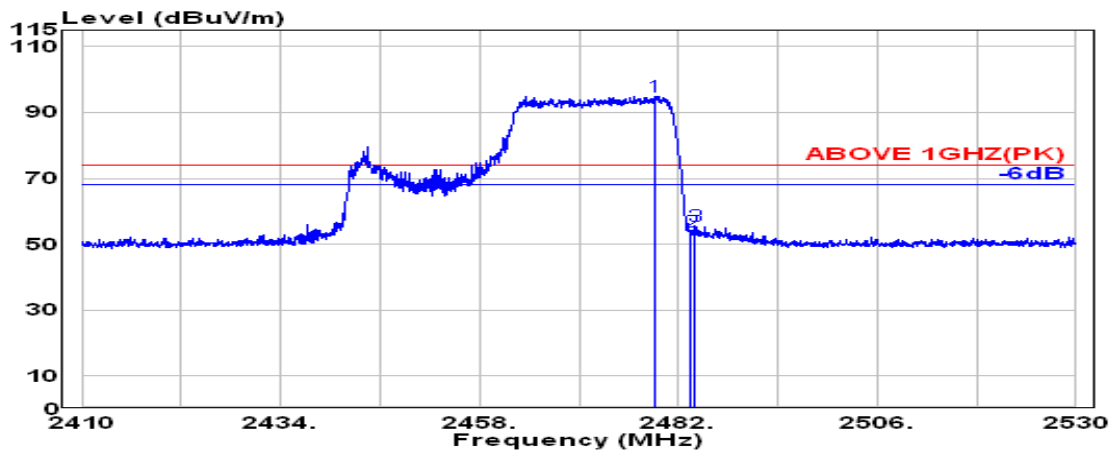
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2478.400	28.41	5.82	39.92	96.53	90.85	---	---	Average
2483.500	28.43	5.83	39.92	55.49	49.84	54.00	4.16	Average
2483.700	28.44	5.83	39.92	55.59	49.94	54.00	4.06	Average

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

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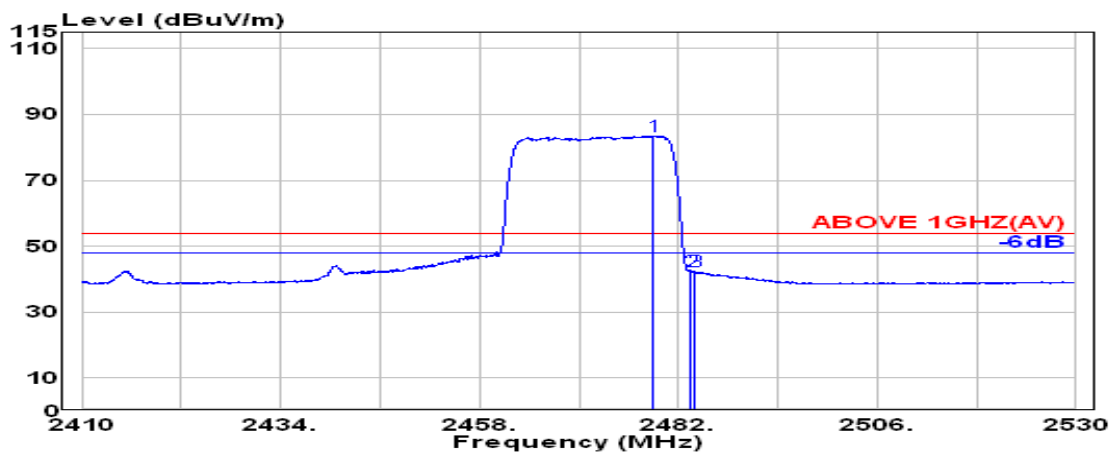
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Mode	802.11ax-HE40	Frequency	TX 2462MHz
RU Configuration	242/62		



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.050	28.42	5.82	39.92	100.68	95.00	---	---	Peak
2483.500	28.43	5.83	39.92	59.64	53.98	74.00	20.02	Peak
2484.050	28.44	5.83	39.92	61.13	55.47	74.00	18.53	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2478.900	28.42	5.82	39.92	89.16	83.48	---	---	Average
2483.500	28.43	5.83	39.92	47.99	42.33	54.00	11.67	Average
2483.950	28.44	5.83	39.92	47.89	42.24	54.00	11.76	Average

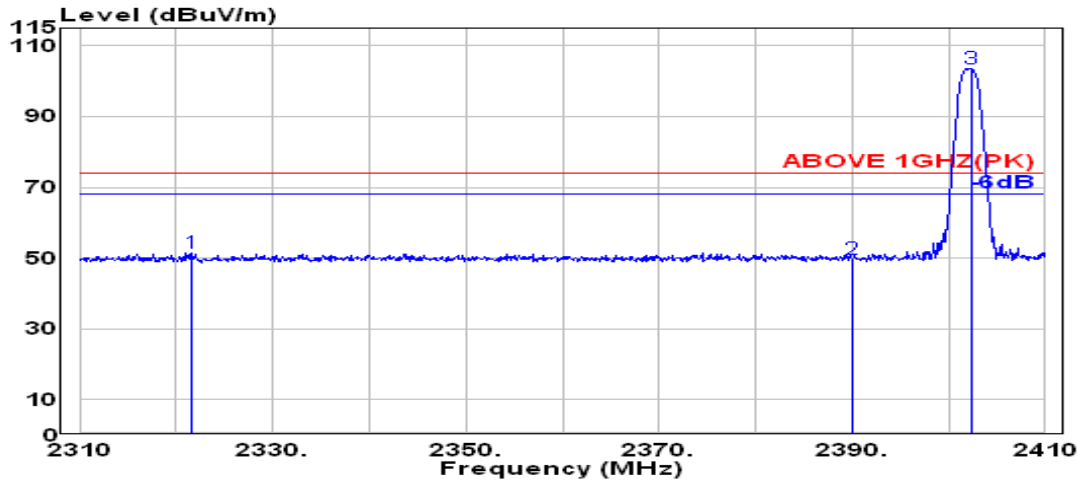
Remark: The “@” means fundamental frequency, it is ignored in this section

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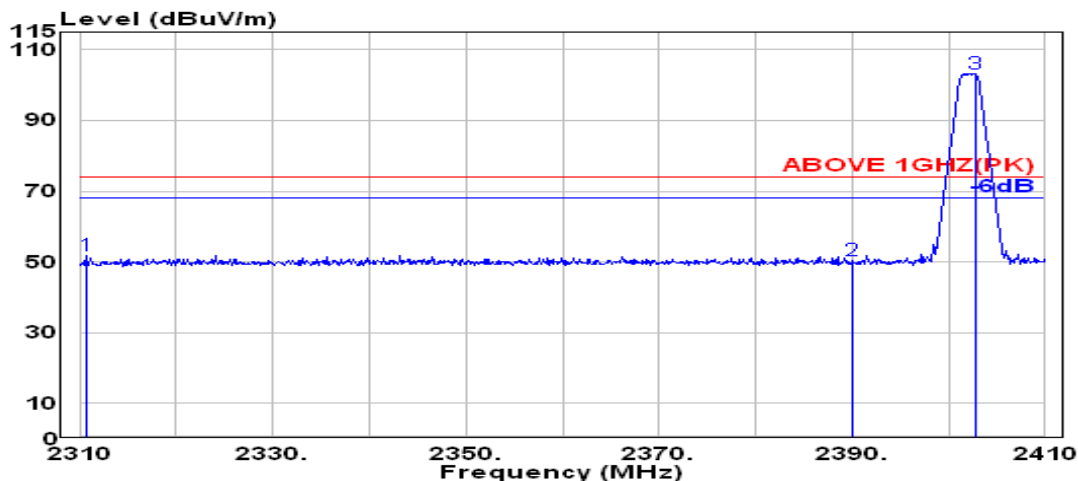
● BLE Mode

Mode	BLE (1Mbps)	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 (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2321.500	28.09	5.61	39.92	57.62	51.40	74.00	22.60	Peak
2390.000	28.20	5.70	39.92	55.65	49.63	74.00	24.37	Peak
@ 2402.300	28.20	5.72	39.92	109.46	103.46	---	---	Peak



Antenna at Horizontal Polarization

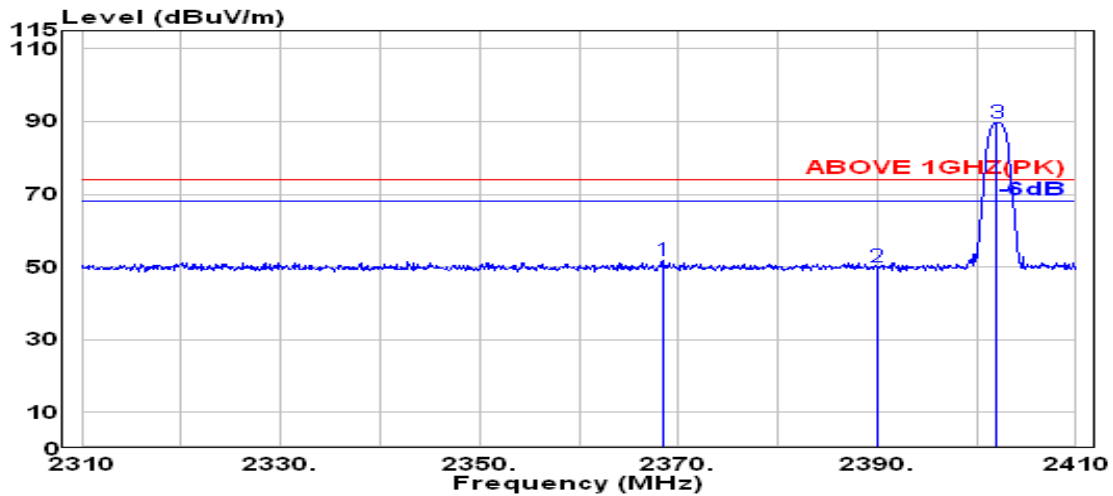
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2310.700	28.04	5.59	39.92	58.18	51.89	74.00	22.11	Peak
2390.000	28.20	5.70	39.92	56.29	50.28	74.00	23.72	Peak
@ 2402.700	28.21	5.72	39.92	109.22	103.22	---	---	Peak

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

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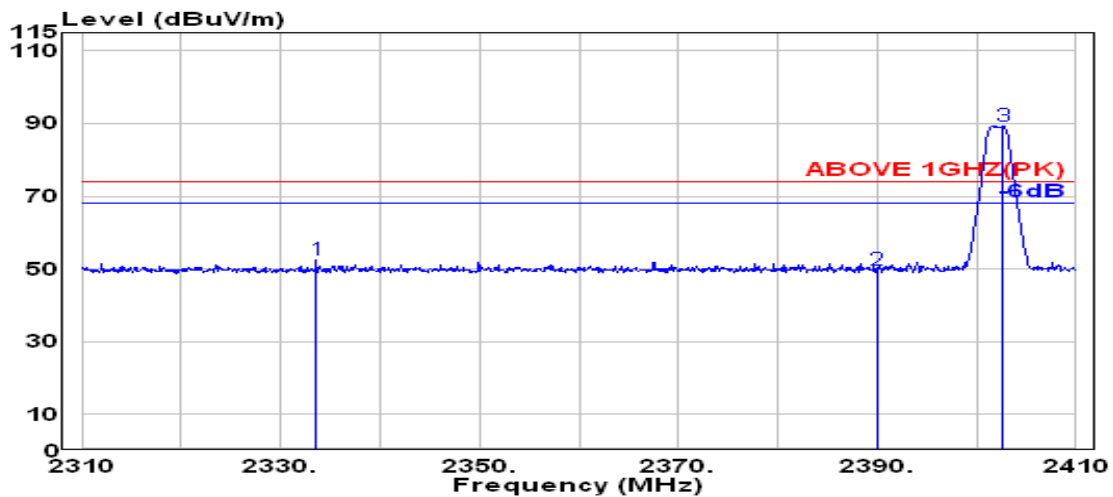
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Mode	BLE (1Mbps)	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

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
2368.400	28.20	5.67	39.92	57.80	51.75	74.00	22.25	Peak
2390.000	28.20	5.70	39.92	56.21	50.19	74.00	23.81	Peak
@ 2402.000	28.20	5.72	39.92	95.63	89.63	---	---	Peak



Antenna at Vertical Polarization

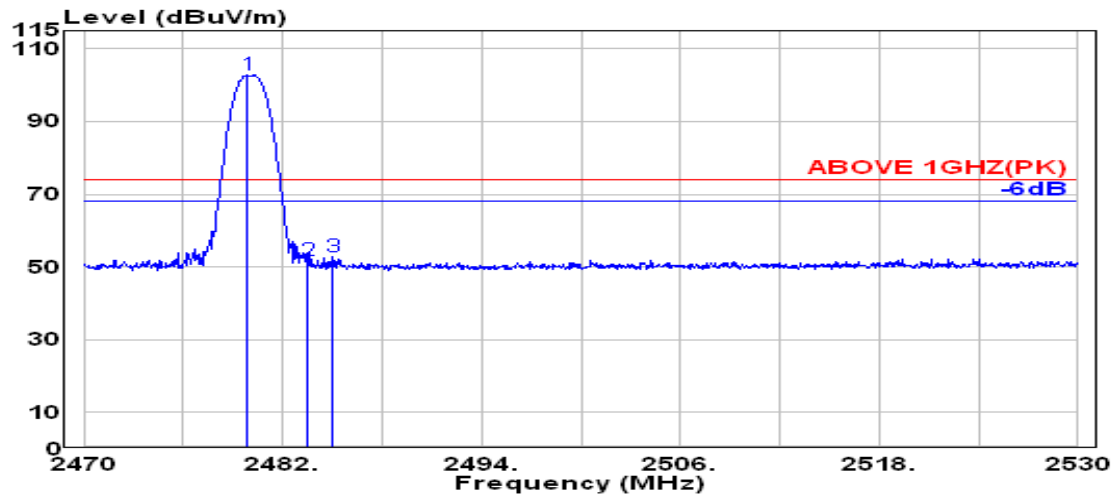
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2333.600	28.13	5.62	39.92	58.58	52.42	74.00	21.58	Peak
2390.000	28.20	5.70	39.92	55.60	49.58	74.00	24.42	Peak
@ 2402.600	28.21	5.72	39.92	95.23	89.24	---	---	Peak

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

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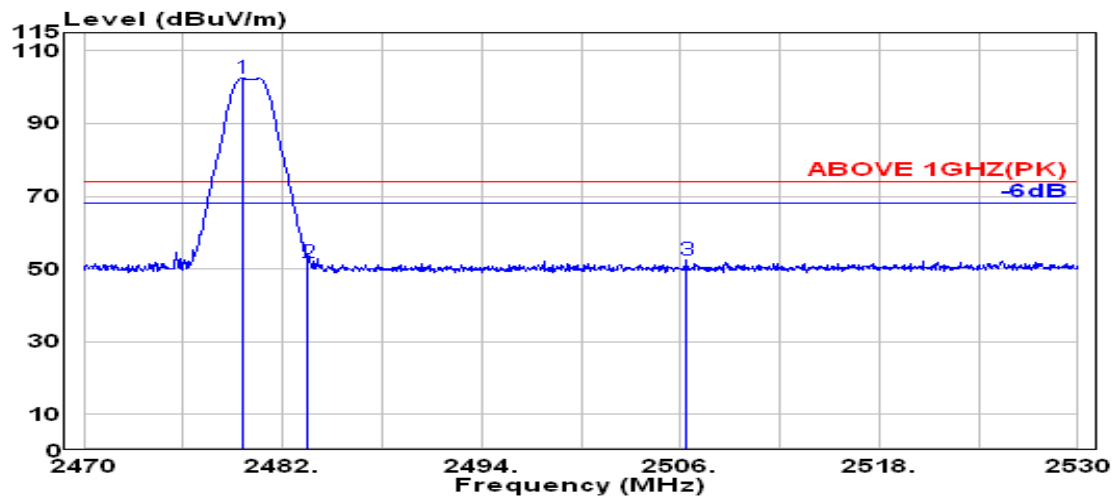
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Mode	BLE (1Mbps)	Frequency	TX 2480 MHz
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Antenna at Horizontal Polarization

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
@ 2479.850	28.42	5.82	39.92	108.39	102.71	---	---	Peak
2483.500	28.43	5.83	39.92	57.42	51.76	74.00	22.24	Peak
2485.000	28.44	5.83	39.92	58.53	52.88	74.00	21.12	Peak



Antenna at Horizontal Polarization

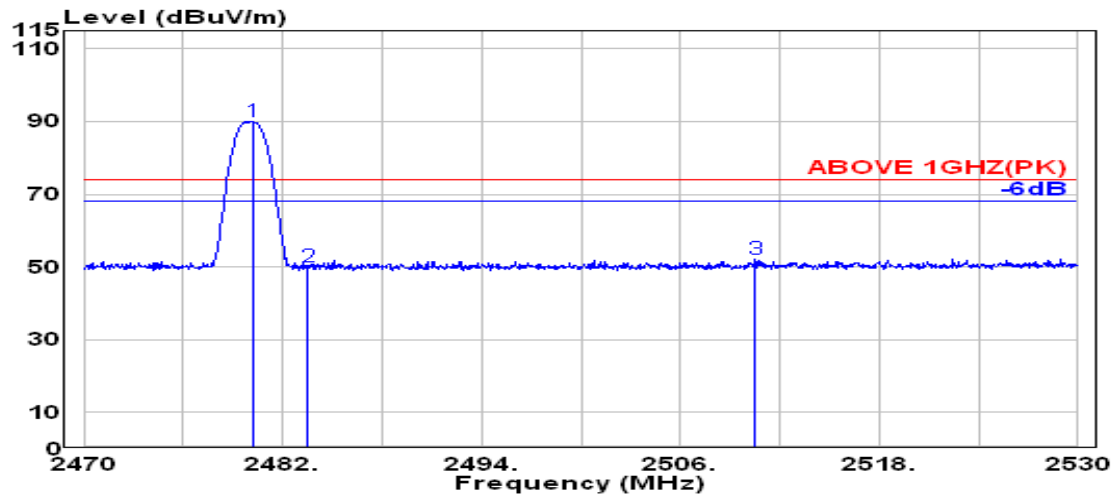
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.550	28.42	5.82	39.92	108.11	102.44	---	---	Peak
2483.500	28.43	5.83	39.92	57.56	51.91	74.00	22.09	Peak
2506.350	28.53	5.86	39.92	57.93	52.39	74.00	21.61	Peak

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

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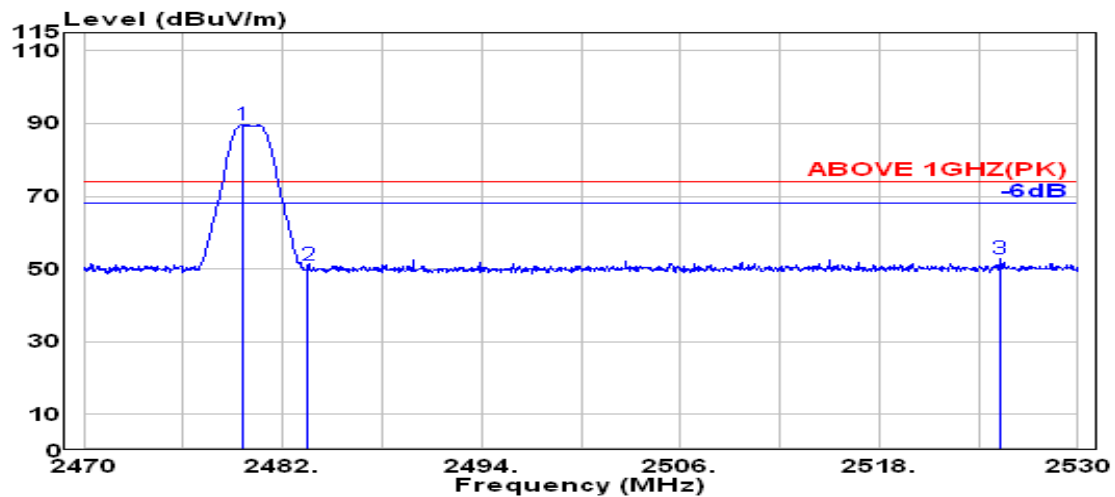
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Mode	BLE (1Mbps)	Frequency	TX 2480 MHz
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Antenna at Vertical Polarization

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
@ 2480.200	28.42	5.82	39.92	95.56	89.88	---	---	Peak
2483.500	28.43	5.83	39.92	55.73	50.07	74.00	23.93	Peak
2510.500	28.54	5.86	39.92	57.70	52.18	74.00	21.82	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
@ 2479.550	28.42	5.82	39.92	95.43	89.75	---	---	Peak
2483.500	28.43	5.83	39.92	56.86	51.20	74.00	22.80	Peak
2525.250	28.60	5.88	39.92	58.20	52.75	74.00	21.25	Peak

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

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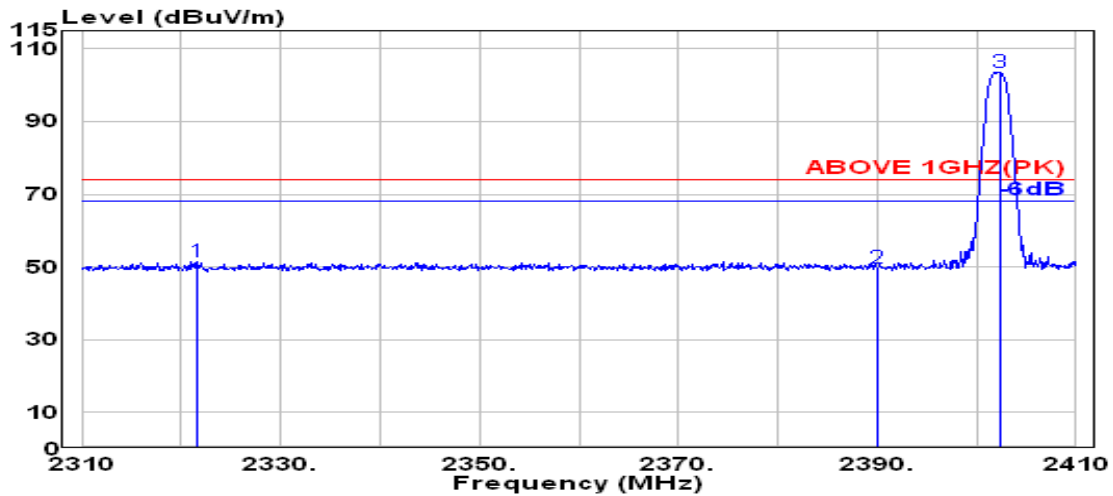
Report Number: EM-F250673

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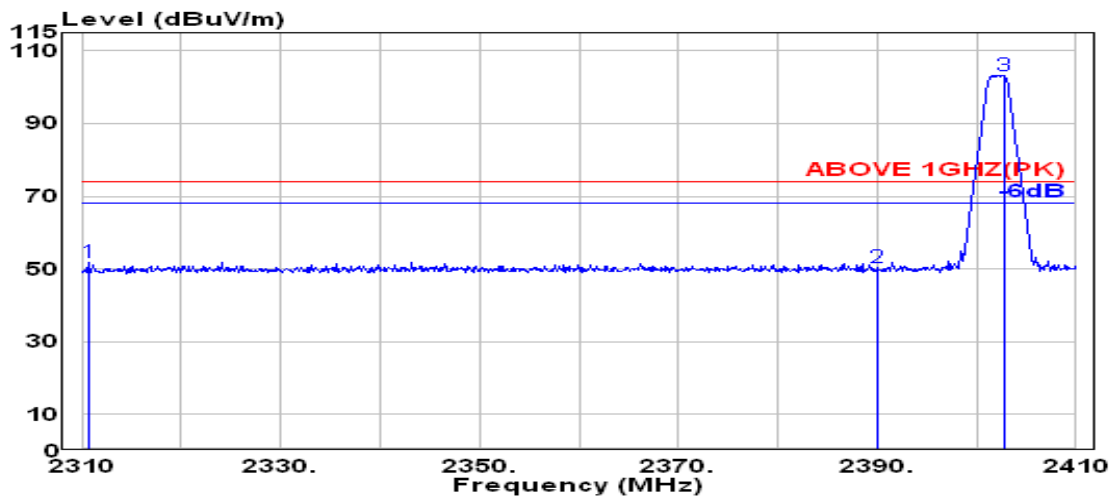
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Mode	BLE (2Mbps)	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

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
2321.500	28.09	5.61	39.92	57.62	51.40	74.00	22.60	Peak
2390.000	28.20	5.70	39.92	55.65	49.63	74.00	24.37	Peak
@ 2402.300	28.20	5.72	39.92	109.46	103.46	---	---	Peak



Antenna at Horizontal Polarization

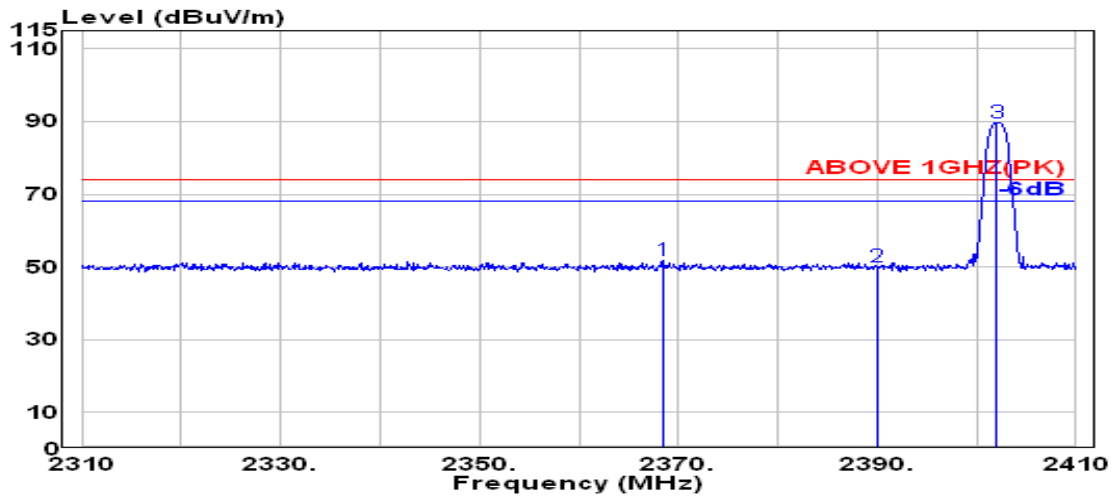
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2310.700	28.04	5.59	39.92	58.18	51.89	74.00	22.11	Peak
2390.000	28.20	5.70	39.92	56.29	50.28	74.00	23.72	Peak
@ 2402.700	28.21	5.72	39.92	109.22	103.22	---	---	Peak

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

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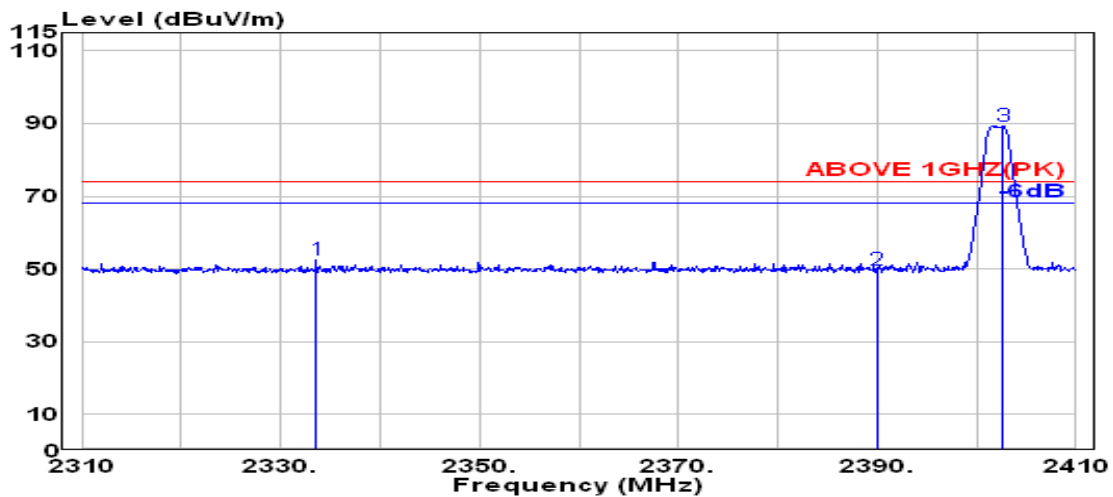
Tel: +886 2 26099301
Fax: +886 2 26099303

Mode	BLE (2Mbps)	Frequency	TX 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
2368.400	28.20	5.67	39.92	57.80	51.75	74.00	22.25	Peak
2390.000	28.20	5.70	39.92	56.21	50.19	74.00	23.81	Peak
@ 2402.000	28.20	5.72	39.92	95.63	89.63	---	---	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
2333.600	28.13	5.62	39.92	58.58	52.42	74.00	21.58	Peak
2390.000	28.20	5.70	39.92	55.60	49.58	74.00	24.42	Peak
@ 2402.600	28.21	5.72	39.92	95.23	89.24	---	---	Peak

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

File Number: C1M2509176

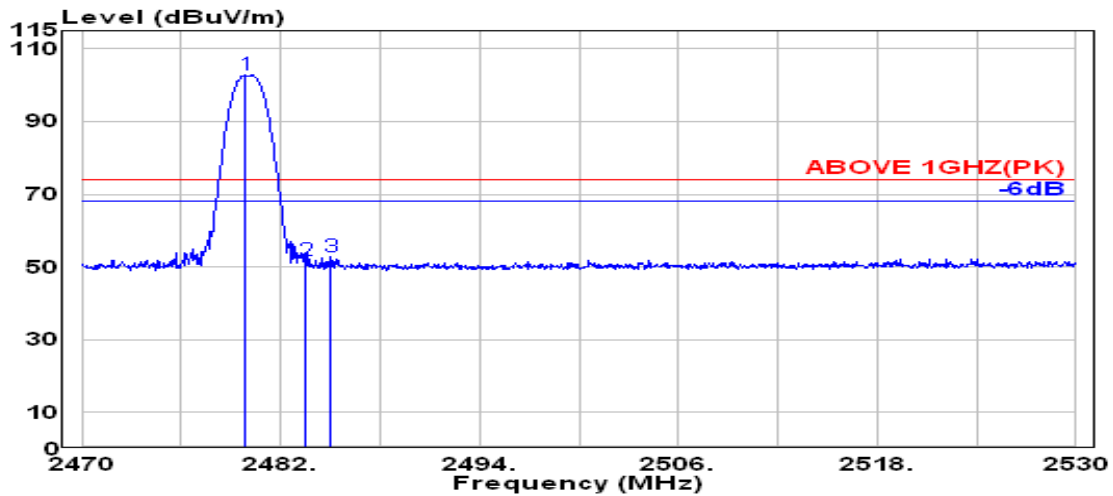
Report Number: EM-F250673

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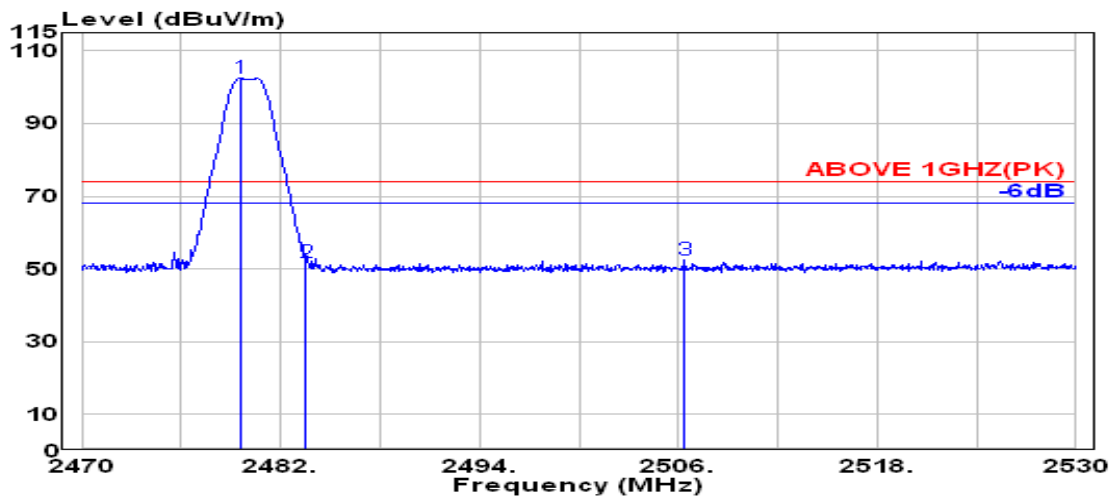
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Mode	BLE (2Mbps)	Frequency	TX 2480 MHz
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Antenna at Horizontal Polarization

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
@ 2479.850	28.42	5.82	39.92	108.39	102.71	---	---	Peak
2483.500	28.43	5.83	39.92	57.42	51.76	74.00	22.24	Peak
2485.000	28.44	5.83	39.92	58.53	52.88	74.00	21.12	Peak

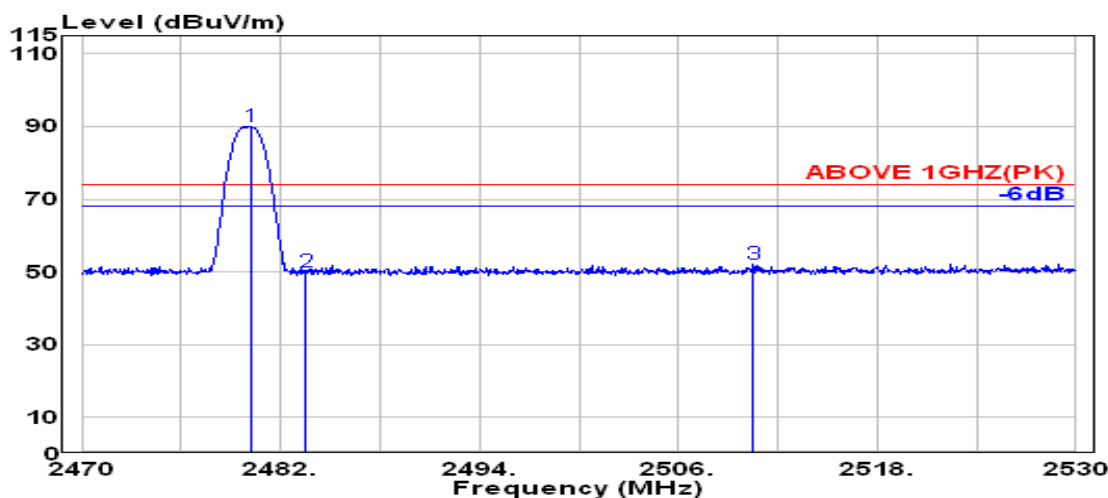


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.550	28.42	5.82	39.92	108.11	102.44	---	---	Peak
2483.500	28.43	5.83	39.92	57.56	51.91	74.00	22.09	Peak
2506.350	28.53	5.86	39.92	57.93	52.39	74.00	21.61	Peak

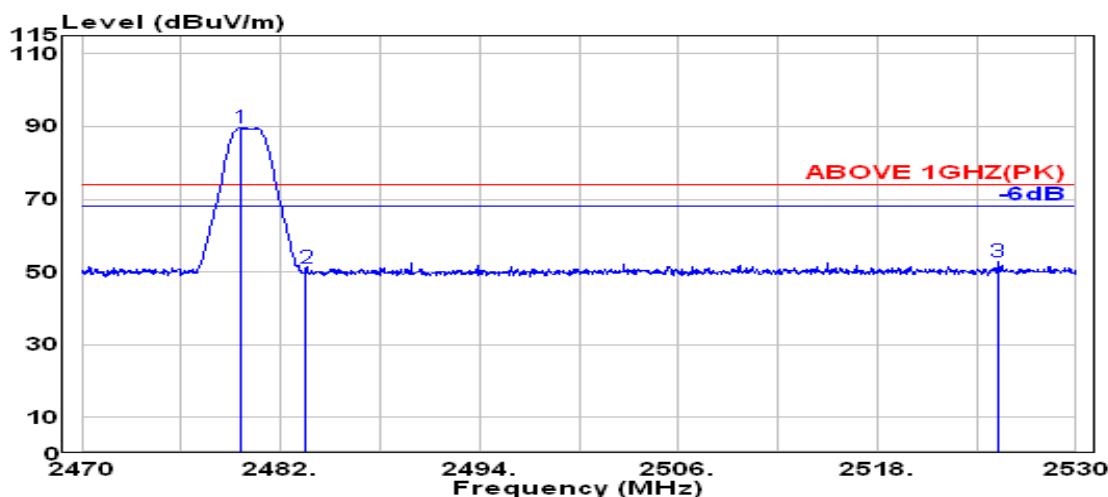
Remark: The “@” means fundamental frequency, it is ignored in this section

Mode	BLE (2Mbps)	Frequency	TX 2480 MHz
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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
@ 2480.200	28.42	5.82	39.92	95.56	89.88	---	---	Peak
2483.500	28.43	5.83	39.92	55.73	50.07	74.00	23.93	Peak
2510.500	28.54	5.86	39.92	57.70	52.18	74.00	21.82	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
@ 2479.550	28.42	5.82	39.92	95.43	89.75	---	---	Peak
2483.500	28.43	5.83	39.92	56.86	51.20	74.00	22.80	Peak
2525.250	28.60	5.88	39.92	58.20	52.75	74.00	21.25	Peak

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

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

The 802.11ax was assessed with full RU mode.

● Wireless LAN Mode

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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4824.000	32.80	8.04	39.17	40.49	42.15	54.00	11.85	Peak

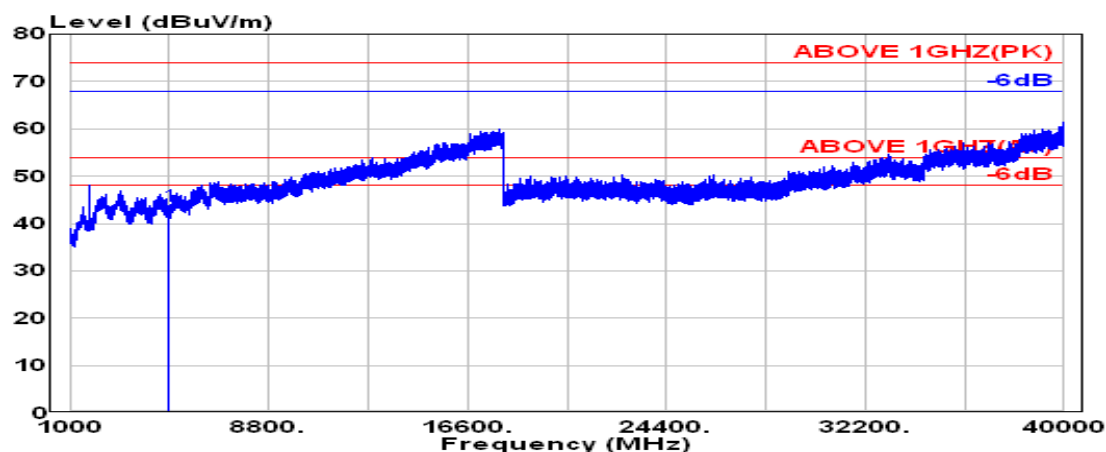
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4824.000	32.80	8.04	39.17	39.94	41.60	54.00	12.40	Peak

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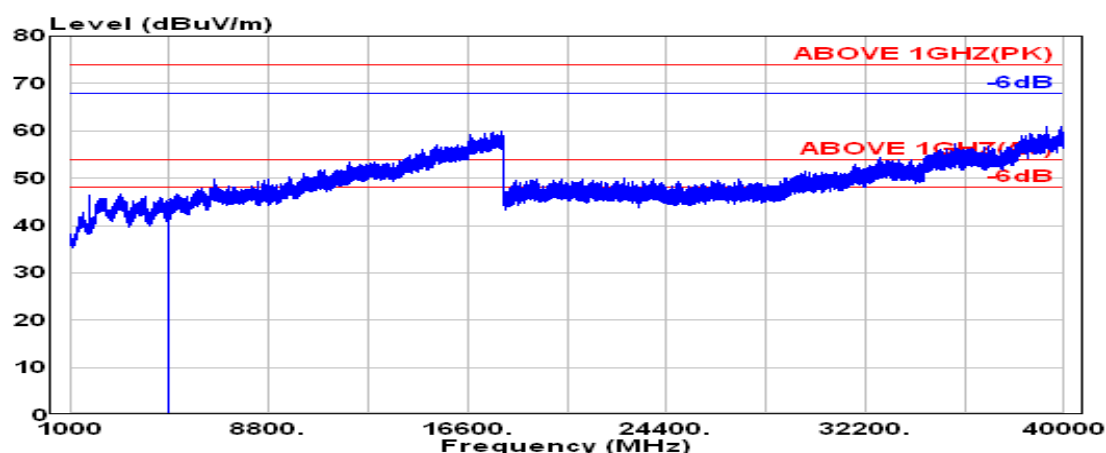
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Fax: +886 2 26099303

Mode	802.11b	Frequency	TX 2442MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
4884.000	33.04	8.08	39.15	41.72	43.69	54.00	10.31	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
4884.000	33.04	8.08	39.15	40.33	42.30	54.00	11.70	Peak

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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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4944.000	33.19	8.12	39.12	40.00	42.19	54.00	11.81	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4944.000	33.19	8.12	39.12	40.15	42.34	54.00	11.66	Peak

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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4824.000	32.80	8.04	39.17	41.15	42.82	54.00	11.18	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4824.000	32.80	8.04	39.17	40.80	42.46	54.00	11.54	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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.04	8.08	39.15	40.74	42.70	54.00	11.30	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.04	8.08	39.15	39.66	41.63	54.00	12.37	Peak

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Mode	802.11g	Frequency	TX 2472MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4944.000	33.19	8.12	39.12	39.63	41.82	54.00	12.18	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4944.000	33.19	8.12	39.12	40.10	42.28	54.00	11.72	Peak

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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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4824.000	32.80	8.04	39.17	40.46	42.12	54.00	11.88	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4824.000	32.80	8.04	39.17	38.79	40.45	54.00	13.55	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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.04	8.08	39.15	39.26	41.23	54.00	12.77	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.04	8.08	39.15	38.26	40.23	54.00	13.77	Peak

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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4944.000	33.19	8.12	39.12	40.36	42.54	54.00	11.46	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4944.000	33.19	8.12	39.12	40.52	42.71	54.00	11.29	Peak

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4844.000	32.88	8.05	39.16	39.70	41.47	54.00	12.53	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4844.000	32.88	8.05	39.16	40.20	41.96	54.00	12.04	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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.04	8.08	39.15	39.26	41.23	54.00	12.77	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.04	8.08	39.15	40.78	42.75	54.00	11.25	Peak

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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4924.000	33.15	8.11	39.13	40.26	42.39	54.00	11.61	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4924.000	33.15	8.11	39.13	40.58	42.71	54.00	11.29	Peak

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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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4824.000	32.80	8.04	39.17	40.57	42.23	54.00	11.77	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4824.000	32.80	8.04	39.17	40.03	41.69	54.00	12.31	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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.04	8.08	39.15	40.60	42.57	54.00	11.43	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.04	8.08	39.15	39.95	41.92	54.00	12.08	Peak

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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4944.000	33.19	8.12	39.12	40.64	42.83	54.00	11.17	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4944.000	33.19	8.12	39.12	39.68	41.87	54.00	12.13	Peak

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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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4844.000	32.88	8.05	39.16	39.53	41.30	54.00	12.70	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4844.000	32.88	8.05	39.16	39.85	41.62	54.00	12.38	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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.04	8.08	39.15	40.69	42.66	54.00	11.34	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4884.000	33.04	8.08	39.15	40.89	42.86	54.00	11.14	Peak

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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4924.000	33.15	8.11	39.13	39.76	41.89	54.00	12.11	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4924.000	33.15	8.11	39.13	39.47	41.59	54.00	12.41	Peak

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● **BLE Mode**

Mode	BLE (1Mbps)	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.72	8.02	39.18	40.99	42.55	54.00	11.45	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.72	8.02	39.18	40.81	42.37	54.00	11.63	Peak

Mode	BLE (1Mbps)	Frequency	TX 2440MHz
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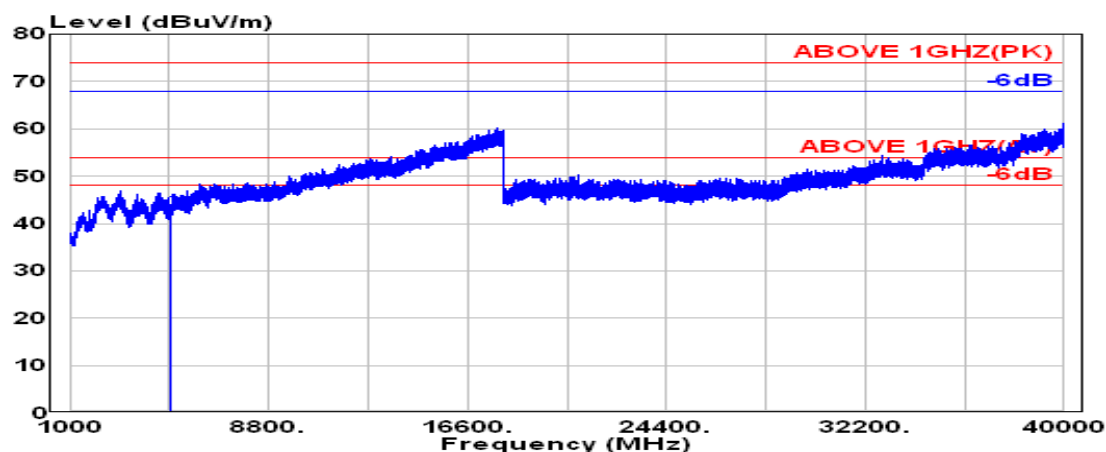
Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4880.000	33.02	8.08	39.15	39.84	41.78	54.00	12.22	Peak

Antenna at Vertical Polarization

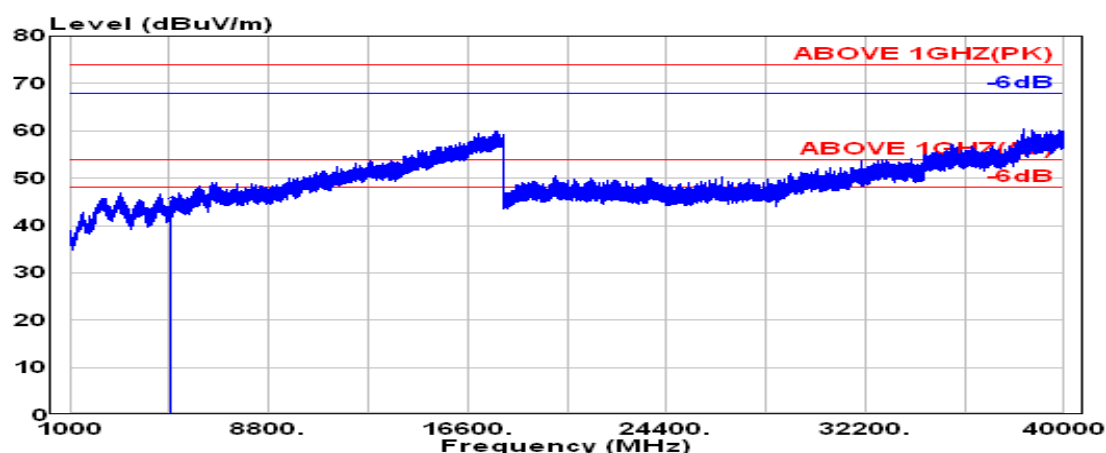
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4880.000	33.02	8.08	39.15	39.71	41.66	54.00	12.34	Peak

Mode	BLE (1Mbps)	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
4960.000	33.22	8.13	39.12	40.37	42.61	54.00	11.39	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
4960.000	33.22	8.13	39.12	40.55	42.79	54.00	11.21	Peak

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 5 general radiated emissions limits is not required.

A.3 DTS/OCCUPIED BANDWIDTH

Test Date	2025/11/02 ~ 12/ 03	Temp./Hum.	20~23℃ /61~65%
Cable Loss	Wireless LAN: 2.00dB BLE: 0.4dB	Tested By	Sean Wang
Test Voltage	DC 5V (Through jig via Notebook PC)		

A.3.1 DTS/Occupied Bandwidth Result

Mode	Centre Frequency (MHz)	DTS (6dB) Bandwidth (MHz)		Occupied (99%) Bandwidth (MHz)		Limit
		ANT0	ANT1	ANT0	ANT1	
802.11b	2412	8.108	8.058	12.682	12.671	>500kHz
	2442	8.108	8.071	12.664	12.692	
	2462	8.103	8.106	12.662	12.693	
	2472	8.107	8.106	12.655	12.680	
802.11g	2412	16.15	16.28	16.863	16.802	
	2442	16.41	16.43	18.375	17.961	
	2462	16.42	16.43	17.591	17.853	
	2472	16.26	16.30	16.911	16.823	
802.11n-HT20	2412	17.40	17.61	17.872	17.843	
	2442	17.67	17.71	18.941	19.556	
	2462	17.69	17.72	18.755	19.120	
	2472	17.48	17.63	17.969	17.916	
802.11n-HT40	2422	36.09	35.82	36.064	36.190	
	2442	36.18	35.84	36.091	36.254	
	2452	36.18	35.68	36.084	36.255	
	2462	35.51	36.17	36.065	36.227	
802.11ax-HE20	2412	18.80	18.88	18.841	18.867	
	2442	19.02	19.02	19.483	19.521	
	2462	19.01	19.00	19.342	19.358	
	2472	18.83	18.76	18.875	18.895	
802.11ax-HE40	2422	37.74	37.65	37.661	37.651	
	2442	37.36	35.66	37.793	37.774	
	2452	37.65	37.71	37.702	37.710	
	2462	37.92	37.85	37.736	37.759	

Note: We only presented the middle channel plots for each test mode.

Audix Technology Corp.

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

New Taipei City 244, Taiwan

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

Mode	Centre Frequency (MHz)	DTS (6dB) Bandwidth (MHz)		Occupied (99%) Bandwidth (MHz)		Limit
		BT0	BT1	BT0	BT1	
BLE (1Mbps)	2402	0.6660	0.6657	1.0382	1.0405	>500kHz
	2440	0.6648	0.6631	1.0412	1.0405	
	2480	0.6669	0.6623	1.0399	1.0419	
BLE (2Mbps)	2402	1.235	1.238	2.0678	2.0693	
	2440	1.172	1.167	2.0666	2.0717	
	2480	1.176	1.178	2.0721	2.0793	
BLE (PHY Coded S2)	2402	0.6846	0.6777	1.0218	1.0317	
	2440	0.6594	0.6599	1.0277	1.0277	
	2480	0.6640	0.6591	1.0274	1.0261	
BLE (PHY Coded S8)	2402	0.6871	0.6786	1.0565	1.0562	
	2440	0.6860	0.6839	1.0616	1.0605	
	2480	0.6833	0.6835	1.0576	1.0611	

Note: We only presented the middle channel plots for each test mode.

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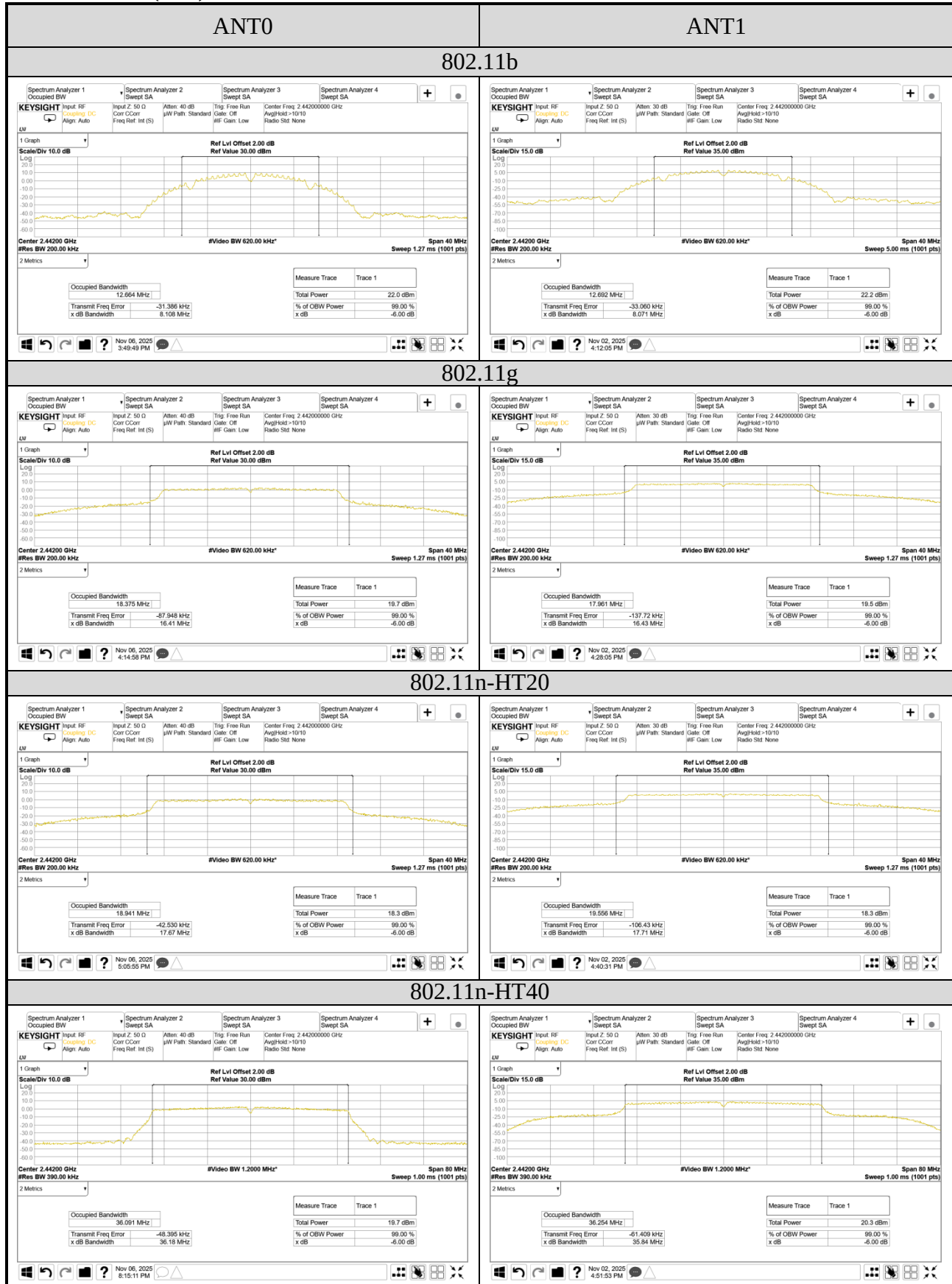
New Taipei City 244, Taiwan

Tel: +886 2 26099301

Fax: +886 2 26099303

A.3.2 Measurement Plots

● DTS (6dB) Bandwidth



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

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



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

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

