

FCC 15.407 NII 5 GHz Test Report

for

Amino Communications Ltd.

**Buckingway Business Park, Anderson Road
Swaveasy Cambridgeshire CB24 4UQ, United Kingdom**

Product Name : IPTV STB/PVR
Model Name : Kamai XXXXXXXXXXXXX
Brand : amino
FCC ID : XVG500144BCBT

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



The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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APPENDIX A TEST DATA AND PLOTS

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TEST REPORT CERTIFICATION

Applicant : Amino Communications Ltd.

Manufacturer : Xavi Technologies Corp.

EUT Description

- (1) Product : IPTV STB/PVR
- (2) Model : Kamai XXXXXXXXXXXXX
- (3) Brand : amino
- (4) Power Rating : DC 12V

Applicable Standards:

47 CFR FCC Part 15 Subpart E

ANSI C63.10:2013

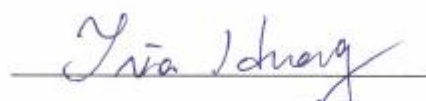
KDB 789033 D02 General UNII Test Procedures New Rules v02r01

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: 2018. 11. 27

Reviewed by:



(Tina Huang/Administrator)

Approved by:



(Ben Cheng/Manager)



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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Data	Revision Summary	Report Number
0	2018. 11. 27	Original Report	EM-F180128

2. SUMMARY OF TEST RESULTS

Rule	Description	Results
15.207	Conducted Emission	PASS
15.205/15.209	Radiated Band Edge and Radiated Spurious Emission	PASS
15.407(a)(5)/15.407(e)	Emission Bandwidth Measurement	PASS
15.407(a)	Maximum Output Power	PASS
15.407(b)	Conducted Band Edges and Conducted Spurious Emission	PASS
15.407(a)	Power Spectral Density	PASS
15.203	Antenna Requirement	Compliance
15.407	Frequency Stability	PASS



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3. GENERAL INFORMATION

3.1. Description of Application

Applicant	Amino Communications Ltd. Buckingway Business Park, Anderson Road Swaveasy Cambridgeshire CB24 4UQ, United Kingdom
Manufacturer	Xavi Technologies Corp. No. 468, Gu tang Road, Wu jiang city, Jiangsu province
Product	IPTV STB/PVR
Model	Kamai XXXXXXXXXXXX (Where "X" can be 6, 7, 8 or blank; "XXXXXXXXXXXX" can be any combination of 0~9, A~Z, -, /, or blank; for marketing purpose only)
Brand	amino

3.2. Description of EUT

Test Model	Kamai 7B		
Serial Number	N/A		
Power Rating	DC 12V		
RF Features	802.11 a/n/ac		
Transmit Type	UNII Bands	Mode	
		CDD	SDM
	802.11a	4T4R	---
	802.11n-HT20/ 802.11ac-VHT20	4T4R	4T4R
	802.11n-HT40/ 802.11ac-VHT40	4T4R	4T4R
	802.11ac-VHT80	4T4R	4T4R
	This device not support beamforming mode.		
Device Category	☐ Outdoor Access Point ☐ Fixed point-to-point Access Point ☐ Indoor Access Point ☒ Mobile and Portable client device		
Sample Status	Production		
Date of Receipt	2018. 03. 05		
Date of Test	2018. 03. 19~ 11. 27		
Interface Ports of EUT	● DC power In Port x1 ● S/PDIF optical output Port x1 ● USB 3.0 Port x1 ● HDMI Port x1 ● Ethernet Port x1 ● Analogue A/V Output Port x1		
Accessories Supplied	● AC/DC Adapter ● Remote Control ● 3.5mm jack to 3x RCA Cable ● HDMI Cable		

3.3. Antenna Information

WLAN Antenna					
No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)
1	Ant 5G-1	Waisin Technology Corporation	PCB Antenna	5150-5850	2.36
2	Ant 5G-2				2.31
3	Ant 5G-3				2.13
4	Ant 5G-4				2.35

3.4. EUT Specifications Assessed in Current Report

Mode	UNII Band	Fundamental Range (MHz)	Channel Number
802.11a	I	5180-5240	4
	II-2A	5260-5320	4
	II-2C	5500-5700	11
	III	5745-5825	5
802.11n-HT20/ 802.11ac-VHT20	I	5180-5240	4
	II-2A	5260-5320	4
	II-2C	5500-5700	11
	III	5745-5825	5
802.11n-HT40/ 802.11ac-VHT40	I	5190-5230	2
	II-2A	5270-5310	2
	II-2C	5510-5670	5
	III	5755-5795	2
802.11ac-VHT80	I	5210	1
	II-2A	5290	1
	II-2C	5530-5610	2
	III	5775	1
Remark: UNII Band II-2A and II-2C (DFS Function, Slave/no In service monitor, no Ad-Hoc mode)			

Mode	Modulation	Data Rate (Mbps)
802.11a	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11n-HT20	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 288.9
802.11n-HT40		Up to 600
802.11ac-VHT20	OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)	Up to 346.8
802.11ac-VHT40		Up to 800
802.11ac-VHT80		Up to 1733.2

Channel List					
802.11a/802.11n-HT20/802.11ac-VHT20					
UNII Band	Channel Number	Frequency (MHz)	UNII Band	Channel Number	Frequency (MHz)
I	36	5180	II-2C	116	5580
	40	5200		120	5600
	44	5220		124	5620
	48	5240		128	5640
II-2A	52	5260		132	5660
	56	5280		136	5680
	60	5300		140	5700
	64	5320		149	5745
II-2C	100	5500	III	153	5765
	104	5520		157	5785
	108	5540		161	5805
	112	5560		165	5825

Channel List					
802.11n-HT40/802.11ac-VHT40					
UNII Band	Channel Number	Frequency (MHz)	UNII Band	Channel Number	Frequency (MHz)
I	38	5190	II-2C	118	5590
	46	5230		126	5630
II-2A	54	5270		134	5670
	62	5310	III	151	5755
II-2C	102	5510		159	5795
	110	5550			

Channel List					
802.11ac-VHT80					
UNII Band	Channel Number	Frequency (MHz)	UNII Band	Channel Number	Frequency (MHz)
I	42	5210	II-2C	122	5610
II-2A	58	5290	III	155	5775
II-2C	106	5530			

Note Test modes are presented at section 3.7.

3.5. Description of Key Components

Item	Supplier	Model/Type	Description
AC/DC Adapter	MOSO	MSA-C2000IS 12.0-24Y-DE	Input: 100-240V~, 50/60Hz, 0.7A max. Output: DC 12V, 2A
Remote Control	N/A	N/A	N/A

3.7. Data Rate Relative to Output Power

802.11a				802.11n-HT20			
Channel	Modulation	Date Rate	Power (dBm)	Channel	Modulation	Date Rate	Power (dBm)
36	BPSK	6	21.02	36	BPSK	MCS0	21.00
36	QPSK	9	20.98	36	QPSK	MCS1	20.84
36	QPSK	12	20.74	36	QPSK	MCS2	20.52
36	16-QAM	18	20.69	36	16-QAM	MCS3	20.47
36	16-QAM	24	20.33	36	16-QAM	MCS4	20.31
36	64-QAM	36	20.28	36	64-QAM	MCS5	20.26
36	64-QAM	48	20.19	36	64-QAM	MCS6	20.14
36	64-QAM	54	20.02	36	64-QAM	MCS7	20.08

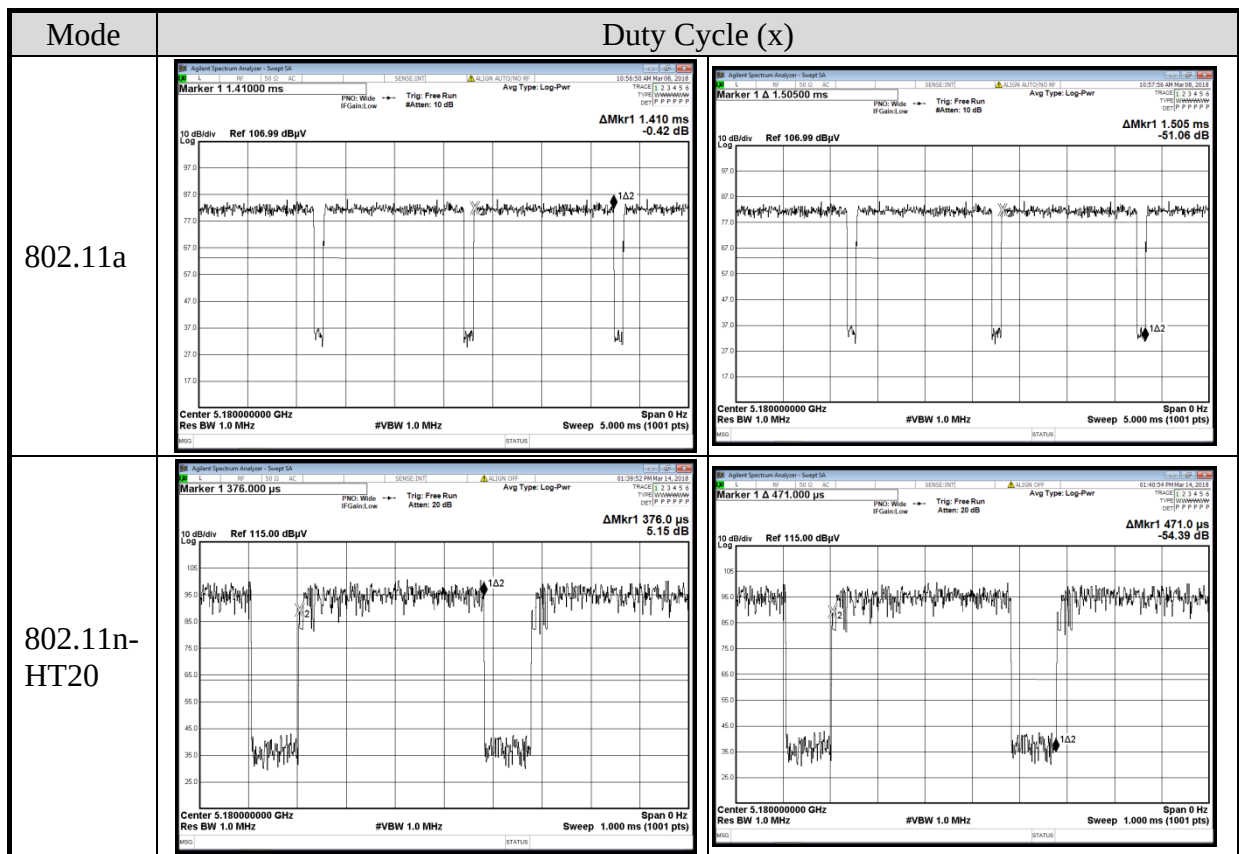
802.11ac-VHT40				802.11ac-VHT80			
Channel	Modulation	Date Rate	Power (dBm)	Channel	Modulation	Date Rate	Power (dBm)
38	BPSK	MCS0	23.25	42	BPSK	MCS0	21.77
38	QPSK	MCS1	23.09	42	QPSK	MCS1	21.68
38	QPSK	MCS2	22.92	42	QPSK	MCS2	21.53
38	16-QAM	MCS3	22.75	42	16-QAM	MCS3	21.32
38	16-QAM	MCS4	22.60	42	16-QAM	MCS4	21.25
38	64-QAM	MCS5	22.44	42	64-QAM	MCS5	21.01
38	64-QAM	MCS6	22.31	42	64-QAM	MCS6	20.99
38	64-QAM	MCS7	22.19	42	64-QAM	MCS7	20.90
38	256-QAM	MCS8	22.13	42	256-QAM	MCS8	20.78
38	256-QAM	MCS9	22.11	42	256-QAM	MCS9	20.74

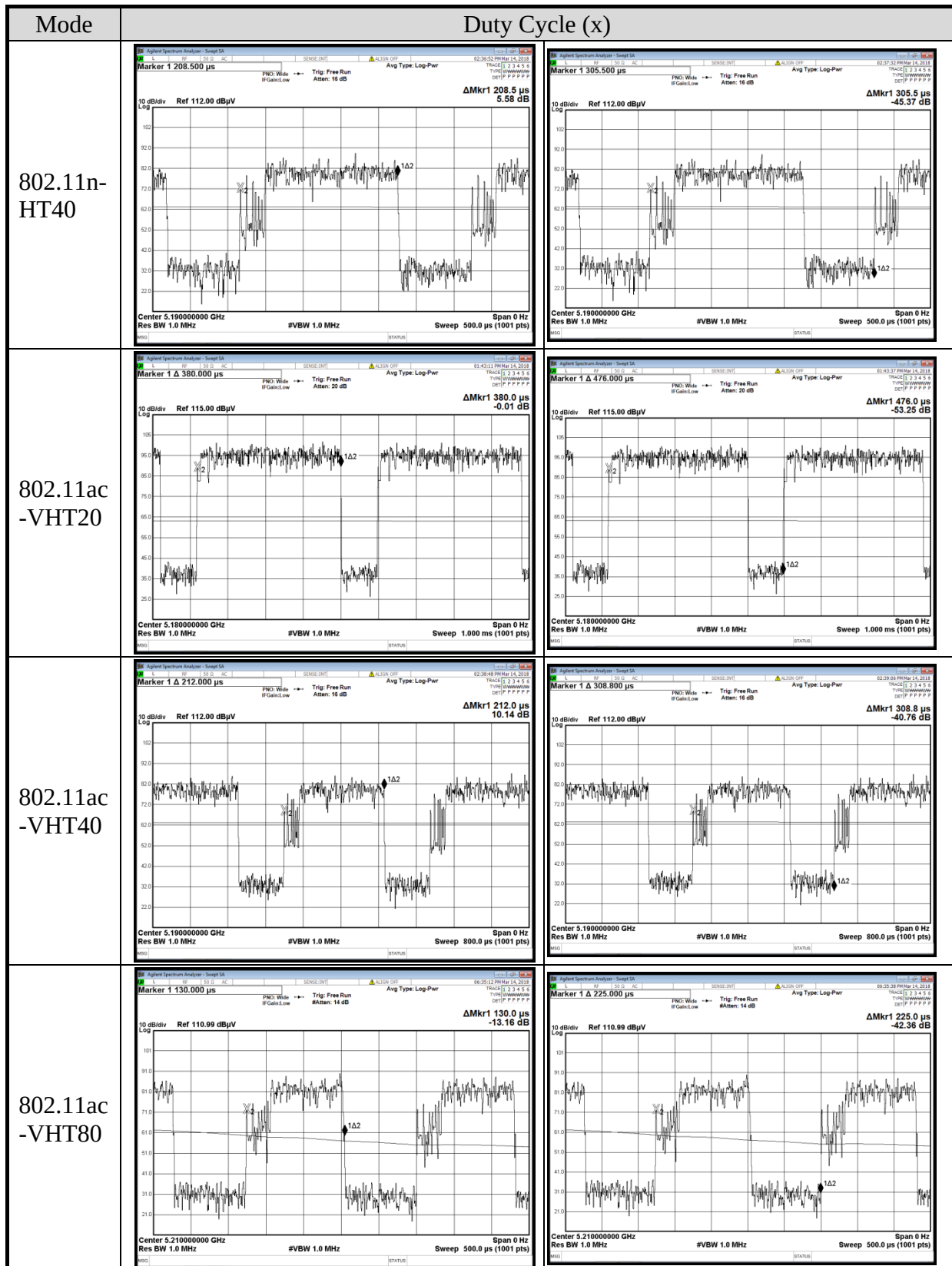
Note: Above results are assessed in average power.

3.8. Test Configuration

Mode	Duty Cycle (x)	T (ms)	Duty Cycle Factor (dB)
802.11a	0.937	1.410	0.28
802.11n-HT20	0.798	0.3760	0.98
802.11n-HT40	0.682	0.2085	1.66
802.11ac-VHT20	0.798	0.3800	0.98
802.11ac-VHT40	0.687	0.2120	1.63
802.11ac-VHT80	0.578	0.1300	2.38

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





AC Conduction	
Test Case	Normal operation

Item		Mode		Data Rate	Test Channel
Radiated Test Case	Radiated Band Edge ^{Note1}	CDD	802.11a	6 Mbps	36/64/100/140/149/165
			802.11n-HT20	MCS0, NSS=1	36/64/100/140/149/165
			802.11ac-VHT40	MCS0, NSS=1	38/62/102/134/151/159
			802.11ac-VHT80	MCS0, NSS=1	42/58/106/155
		SDM	802.11n-HT20	MCS24	36/64/100/140/149/165
			802.11ac-VHT40	MCS0, NSS=2	38/62/102/134/151/159
			802.11ac-VHT80	MCS0, NSS=2	42/58/106/155
	Radiated Spurious Emission ^{Note1 & 2}	CDD	802.11a	6 Mbps	36/40/48/52/60/64/116/140/140/149/157/165
			802.11n-HT20	MCS0, NSS=1	36/40/48/52/60/64/116/140/140/149/157/165
			802.11ac-VHT40	MCS0, NSS=1	38/46/54/62/102/110/134/151/159
			802.11ac-VHT80	MCS0, NSS=1	42/58/106/138/155
		SDM	802.11n-HT20	MCS24	36/40/48/52/60/64/116/140/140/149/157/165
			802.11ac-VHT40	MCS0, NSS=2	38/46/54/62/102/110/134/151/159
			802.11ac-VHT80	MCS0, NSS=2	42/58/106/138/155
Conducted Test Case	Emission Bandwidth ^{Note 3}	CDD	802.11a	6 Mbps	36/40/48/52/60/64/100/116/140/149/157/165
			802.11n-HT20	MCS0, NSS=1	36/40/48/52/60/64/100/116/140/149/157/165
			802.11ac-VHT40	MCS0, NSS=1	38/46/54/62/102/110/134/142/151/159
			802.11ac-VHT80	MCS0, NSS=1	42/58/106/122/138/155

Item	NSS	Mode	Data Rate	Test Channel
Conducted Test Case	CDD	802.11a	6 Mbps	36/40/48/52/60/64/100/116/140/149/157/165
		802.11n-HT20	MCS0, NSS=1	36/40/48/52/60/64/100/116/140/149/157/165
		802.11ac-VHT40	MCS0, NSS=1	38/46/54/62/102/110/134/142/151/159
		802.11ac-VHT80	MCS0, NSS=1	42/58/106/122/138/155
	SDM	802.11n-HT20	MCS24	36/40/48/52/60/64/100/116/140/149/157/165
		802.11ac-VHT40	MCS0, NSS=2	38/46/54/62/102/110/134/142/151/159
		802.11ac-VHT80	MCS0, NSS=2	42/58/106/122/138/155
	CDD	802.11a	6 Mbps	36/40/48/52/60/64/100/116/140/149/157/165
		802.11n-HT20	MCS0, NSS=1	36/40/48/52/60/64/100/116/140/149/157/165
		802.11ac-VHT40	MCS0, NSS=1	38/46/54/62/102/110/134/142/151/159
		802.11ac-VHT80	MCS0, NSS=1	42/58/106/122/138/155
	CDD	802.11a	6 Mbps	36/40/48/52/60/64/100/116/140/149/157/165
		802.11n-HT20	MCS0, NSS=1	36/40/48/52/60/64/100/116/140/149/157/165
		802.11ac-VHT40	MCS0, NSS=1	38/46/54/62/102/110/134/142/151/159
		802.11ac-VHT80	MCS0, NSS=1	42/58/106/122/138/155
		802.11n-HT20	MCS24	36/40/48/52/60/64/100/116/140/149/157/165
		802.11ac-VHT40	MCS0, NSS=2	38/46/54/62/102/110/134/142/151/159
		802.11ac-VHT80	MCS0, NSS=2	42/58/106/122/138/155

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: After pre-tested, the “CDD” is worst mode to test and presented in this report.

Note 4: After pre-tested for each ports, the worst port was selected and the test data presented in this report.

3.9. Tested Supporting System List

3.9.1. Support Peripheral Unit

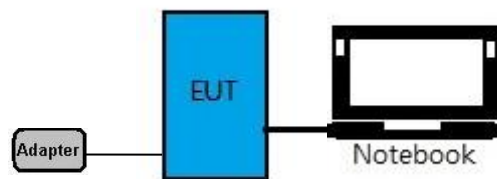
No.	Product	Brand	Model No.	Serial No.	Approval
1.	Notebook PC	acer	N16Q2	N/A	Contains FCC ID: PPD-QCNFA435 Contains IC: 4104A-QCNFA435

3.9.2. Cable Lists

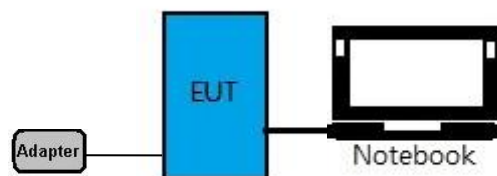
No.	Cable Description Of The Above Support Units
1.	USB Cable : Unshielded, Detachable, 1.8m Adapter: Chicony, M/N A11-065N1A DC Cord : Shielded, Undetachable, 1.8m, Bonded a ferrite core AC Power Cord : Unshielded, Detachable, 1.0m

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 “Tera term” is used for enabling EUT WLAN 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. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2005 (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 (1) No. 8 Shielding Room (2) Semi-Anechoic Chamber (IC Test Site Registration No.: 5183B-1) (3) Fully Anechoic Chamber (IC Test Site Registration No.: 5183B-4)

3.13. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conduction Test	150kHz~30MHz	$\pm 3.50\text{dB}$
Radiation Test (Distance: 3m)	30MHz~1000MHz	$\pm 3.68\text{dB}$
	Above 1GHz	$\pm 5.82\text{dB}$

Remark : Uncertainty = $ku_c(y)$

Test Item	Uncertainty
Emission Bandwidth	$\pm 0.2\text{kHz}$
Maximum output power	$\pm 0.33\text{dB}$
Power spectral density	$\pm 0.13\text{dB}$
Conducted Emission Limitations	$\pm 0.13\text{dB}$

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	ESR	101774	2018. 01. 24	1 Year
2.	A.M.N.	R&S	ENV4200	100169	2017. 11. 12	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-855-9	2017. 12. 14	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	100354	2018. 01. 16	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.8 S/R	2017. 04. 21	1 Year
6.	Test Software	Audix	e3	V.6.120424	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	2017. 09. 13	1 Year
					2018. 09. 12	1 Year
2.	Spectrum Analyzer	Agilent	N9030A-526	MY53310269	2018. 01. 04	1 Year
3.	Test Receiver	R & S	ESCS30	100338	2017. 06. 19	1 Year
					2018. 06. 20	1 Year
4.	Amplifier	HP	8447D	2944A06305	2018. 01. 30	1 Year
5.	Amplifier	HP	8449B	3008A02678	2018. 03. 06	1 Year
6.	Bilog Antenna	CHASE	CBL6112D	33821	2018. 01. 21	1 Year
7.	Loop Antenna	R&S	HFH2-Z2	891847/27	2017. 12. 18	1 Year
8.	Double-Ridged Waveguide Horn	ETS-Lindgren	3117	00135902	2018. 03. 08	1 Year
9.	Horn Antenna	EMCO	3116	2653	2017. 12. 19	1 Year
10.	5G Notch Filter	Microwave Circuits	N0452502	459775	2017. 12. 27	1 Year
11.	5G Notch Filter	Microwave Circuits	N0555983	459481	2017. 05. 20	1 Year
					2018. 05. 21	1 Year
12.	5G Notch Filter	Microwave Circuits	N0257881	459776	2017. 02. 03	1.5 Year
					2018. 08. 22	1.5 Year
13.	Digital Thermo-Hygro Meter	IMax	HTC-1	No.1 3m A/C	2017. 04. 21	1 Year
					2018. 04. 20	1 Year
14.	Digital Thermo-Hygro Meter	EVERY DAY	E-512	RF-02	2017. 04. 21	1 Year
					2018. 04. 20	1 Year
15.	Test Software	Audix	e3	V.6.110601	N.C.R.	N.C.R.

4.3. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9020B-544	MY57120357	2018. 01. 15	1 Year
2.	Spectrum Analyzer	Agilent	N9030A-544	US51350140	2017. 06. 20	1 Year
					2018. 06. 20	1 Year
3.	Power Meter	Anritsu	ML2495A	1145008	2017. 11. 03	1 Year
4.	Power Sensor	Anritsu	MA2411B	1126096	2017. 11. 03	1 Year
5.	Digital Thermo-Hygro Meter	Shenzhen Datronn Electronics	KT-905	RF	2018. 04. 20	1 Year

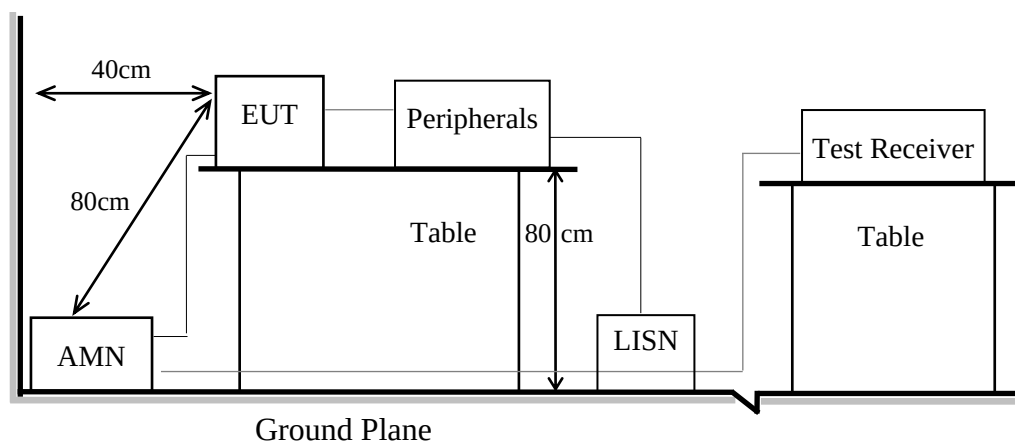
5. CONDUCTED EMISSION

5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of EUT

Indicated as section 3.9

5.1.2. Shielded Room Setup Diagram



5.2. Conducted Emission Limit

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

Remark 1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

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

5.3. Test Procedure

- 5.3.1. To set up the EUT as indicated in ANSI C 63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.
- 5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
- 5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
- 5.3.4. Checking frequency range from 150 kHz to 30 MHz and record the emission which does not have 20 dB below limit.



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5.4. Test Results

Please refer to Appendix A.

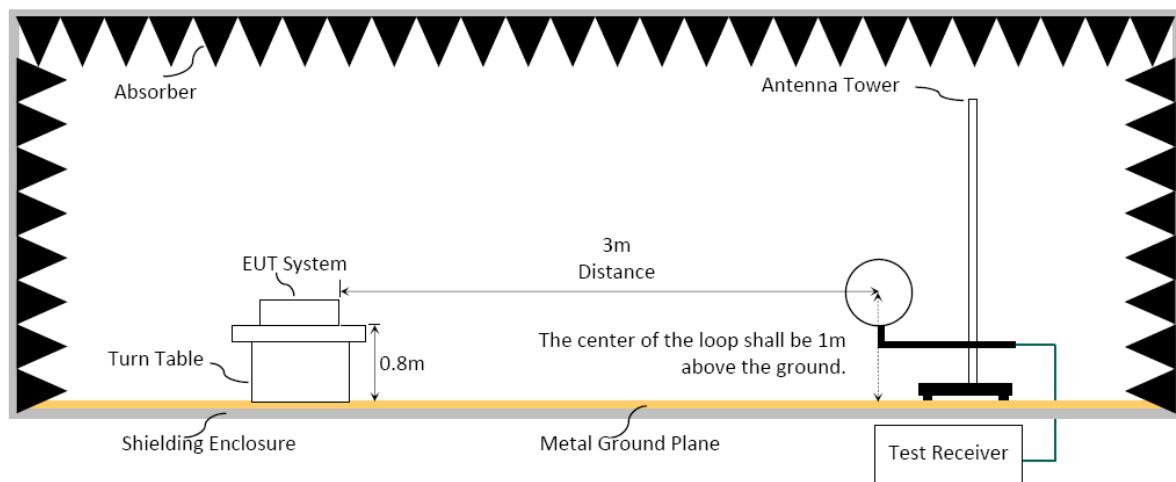
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

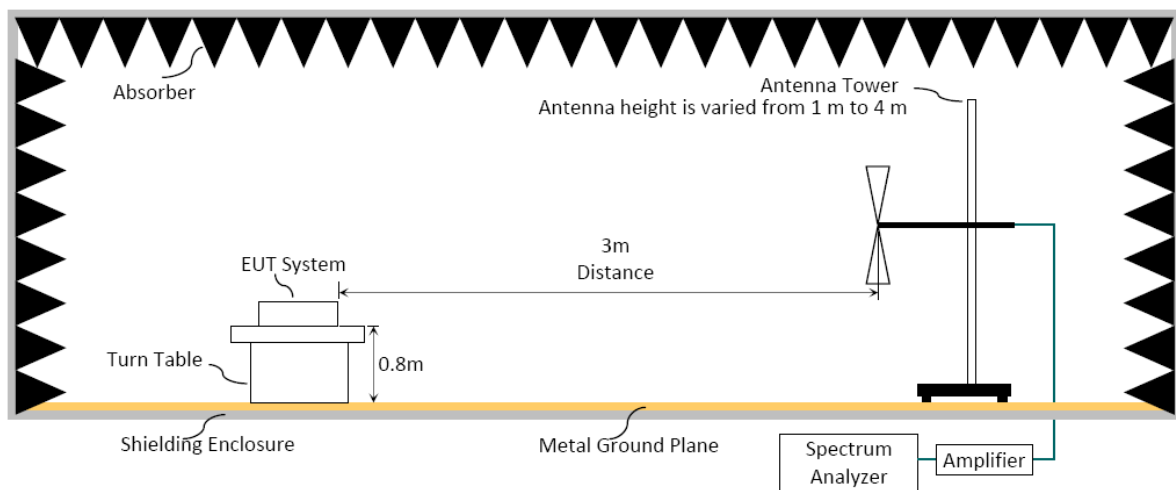
6.1.1. Block Diagram of EUT

Indicated as section 3.9

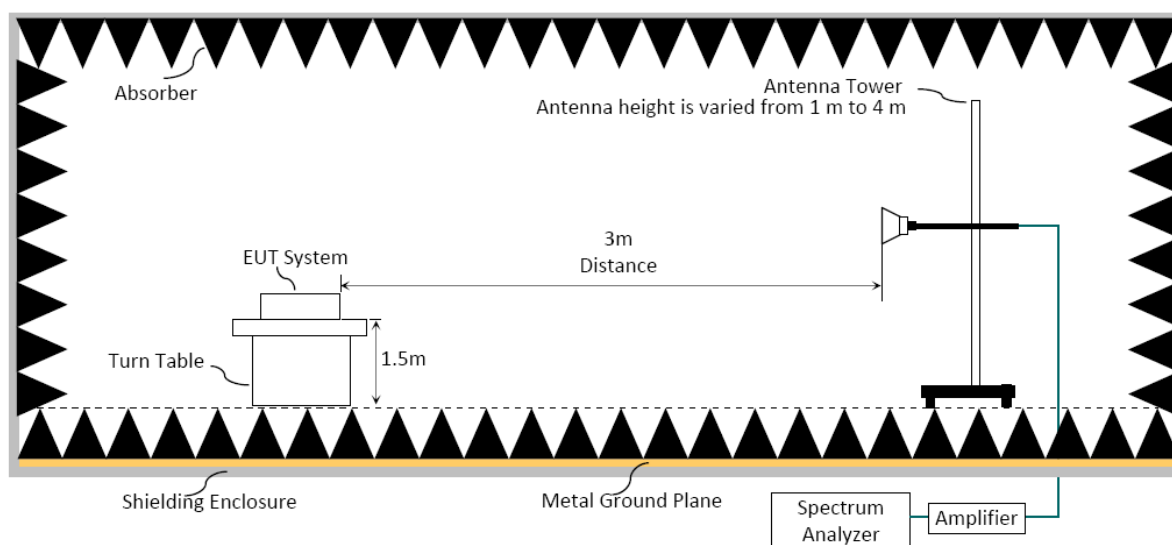
6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30-1000 MHz



6.1.4. Setup Diagram for above 1GHz



6.2. Radiated Emission Limits

Radiated emissions fall in restricted bands, as defined in Section 15.205 must be in compliance with the radiated emission limits specified in 15.209 as below.

6.2.1. General Limit

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

Remark : (1) dB μ V/m = 20 log (μ V/m)

(2) The tighter limit applies to the edge between two frequency bands.

(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

(4) Fundamental and emission fall within operation band are exempted from this section.

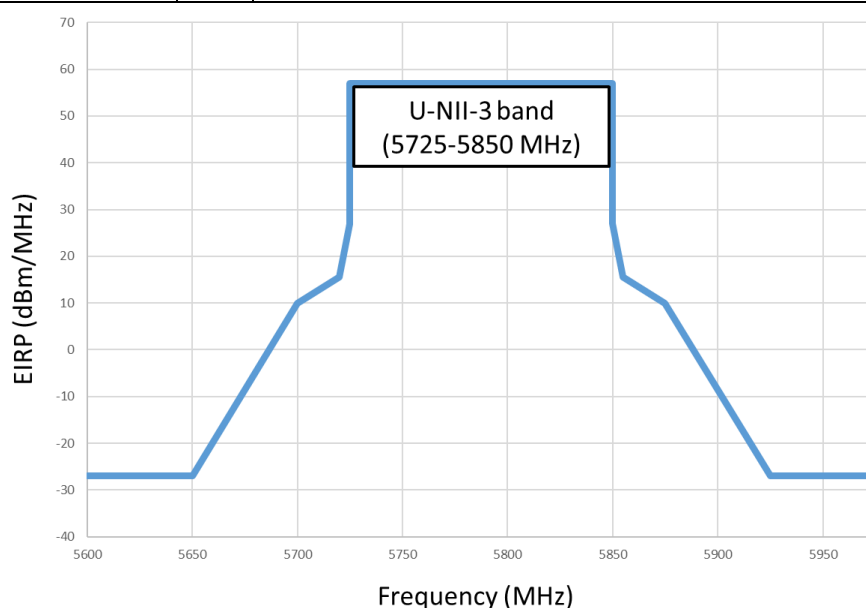
(5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

6.2.2. Limit for non-restricted frequency above 1 GHz

Frequency Band (MHz)	E.I.R.P. Limit	Field Strength Limit at 3 m
5150 to 5250	-27 dBm	68.2
5250 to 5350		68.2
5470 to 5725		68.2

Note: Field Strength at 3 m= E.I.R.P. + 95.2 dB

Frequency Band (MHz)	Field Strength Limit at 3 m	
5725 to 5850	☒	15.407(b)(4)(i) All emissions shall be limited to a level of 68.2 dB μ V/m at 75 MHz or more above or below the band edge increasing linearly to 105.2dB μ V/m at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 110.8 dB μ V/m at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 68.2 dB μ V/m at the band edge.
	☐	15.407(b)(4)(ii) ,compliance with the emission limits in § 15.247(d) Shall be at least 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power,. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))



6.3. Test Procedure

Frequency Range 9kHz~30MHz:

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

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

Frequency Range 30MHz ~ 40GHz:

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

Frequency below 1 GHz:

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

- (1) RBW = 120KHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.
- (7) 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.

Frequency above 1GHz to 10th harmonic (up to 40 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.
- (7) When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.

Average Detector:☒ **Option 1:**

(1) RBW = 1MHz

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

Modulation Type	T (ms)	1/T (kHz)	VBW Setting (kHz)
802.11a	1.41	0.709	680Hz
802.11n-HT20	0.376	2.660	2.7kHz
802.11ac-VHT40	0.2085	4.796	4.7kHz
802.11ac-VHT80	0.130	7.692	7.5kHz

N/A: 1/T is not implemented when duty cycle presented in section 3.7 is $\geq 98\%$.

(1) Detector = Peak.

(2) Sweep time = auto.

(3) Trace mode = max hold.

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

☐ **Option 2:**

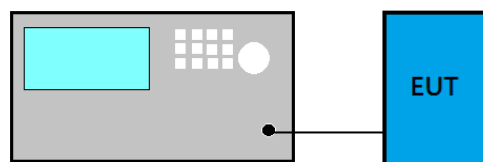
Average Emission Level = Peak Emission Level + D.C.C.F.

6.4. Measurement Result Explanation☒ Peak Emission Level = Antenna Factor + Cable Loss + Meter Reading☒ Average Emission Level = Antenna Factor + Cable Loss + Meter Reading☐ Average Emission Level = Peak Emission Level + DCCFDuty Cycle Correction Factor (DCCF) = $20\log(TX_{on}/TX_{on+off})$ presented in section 3.7☐ ERP = Peak Emission Level - 95.2dB - 2.14dB**6.5. Test Results**

Please refer to Appendix A.

7. EMISSION BANDWIDTH

7.1. Block Diagram of Test Setup



7.2. Specification Limits

Frequency Band (MHz)	Limit
5150 to 5250	Reference only
5250 to 5350	
5470 to 5725	
5725 to 5850	$\geq 500\text{kHz}$

7.3. Test Procedure

Following measurement procedure is reference to KDB 789033 D02 General UNII Test Procedures New Rules v02r01:

■ Applicable to all bands except to 5725 MHz- 5850 MHz

- (1) Set RBW= 1% of the emission bandwidth
- (2) Set VBW > RBW
- (3) Detector = Peak
- (4) Trace mode = max hold
- (5) Setting channel bandwidth function x dB to -26 dB to record the final bandwidth.

■ 5725 MHz- 5850 MHz

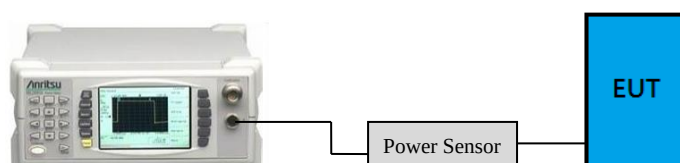
- (1) Set RBW = 100 kHz.
- (2) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- (3) Detector = Peak.
- (4) Trace mode = max hold.
- (5) Sweep = auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x dB to -6 dB to record the final bandwidth.

7.4. Test Results

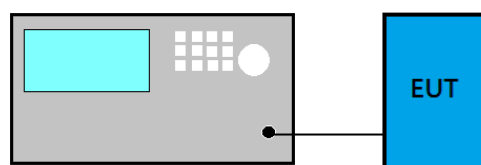
Please refer to Appendix A

8. MAXIMUM OUTPUT POWER

8.1. Block Diagram of Test Setup



- For 802.11ac-VHT80 mode only



8.2. Specification Limits

Frequency Band (MHz)	Category	Limit
5150 to 5250	Outdoor Access Point	1 W(30 dBm)/ Max e.i.r.p. ≤ 125 mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon
	Fixed point-to-point Access Point	1 W(30 dBm)
	Indoor Access Point	1 W(30 dBm)
	Mobile and Portable client device	250 mW(24 dBm)
5250 to 5350	N/A	250 mW or $11 \text{ dBm} + 10 \log B$ ^{Note1}
5470 to 5725		250 mW or $11 \text{ dBm} + 10 \log B$ ^{Note1}
5725 to 5850		1 W(30 dBm)

Note 1: B is the 26 dB emission bandwidth, which presented in section 7 and appendix A.1.

8.3. Test Procedure

Following measurement procedure is reference to KDB 789033 D02 General UNII Test Procedures New Rules v02r01:

■ **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) for 802.11ac-VHT80 mode only**

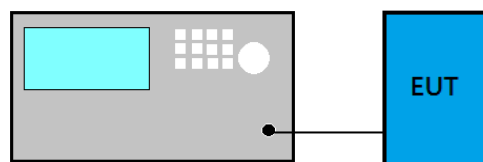
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 MHz
- (3) Set the video bandwidth (VBW) ≥ 3 MHz.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the signal using the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

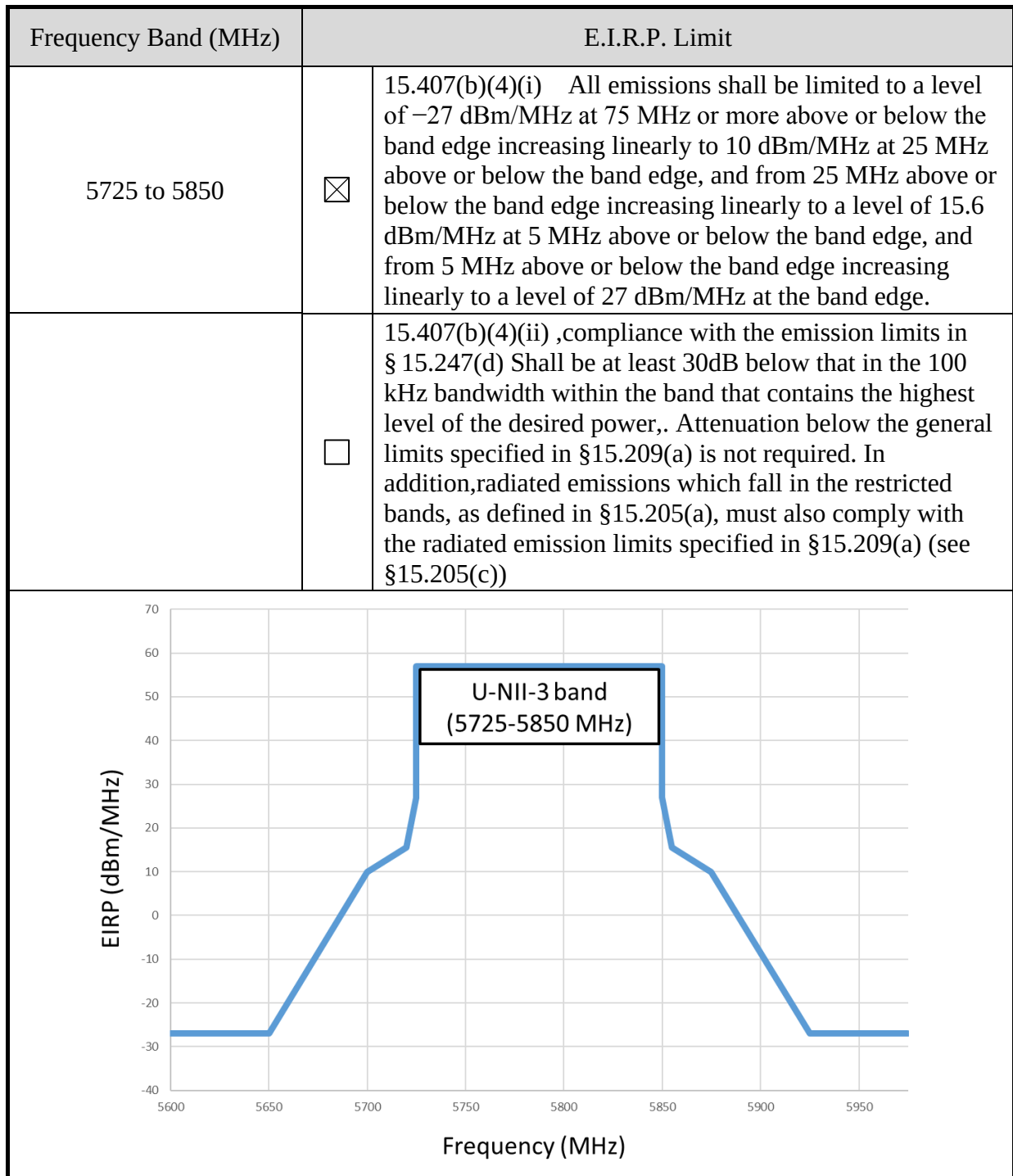
9. EMISSION LIMITATIONS MEASUREMENT

9.1. Block Diagram of Test Setup



9.2. Specification Limits

Frequency Band (MHz)	E.I.R.P. Limit
5150 to 5250	-27 dBm
5250 to 5350	
5470 to 5725	



9.3. Test Procedure

Following measurement procedure is reference to KDB 789033 D02 General UNII Test Procedures New Rules v02r01:

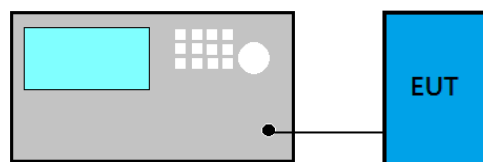
- (1) RBW = 1 MHz
- (2) VBW $\geq 3 \times$ RBW
- (3) Detector = Peak
- (4) Sweep time = auto
- (5) Trace mode = max hold
- (6) Allow sweeps to continue until the trace stabilizes.

9.4. Test Results

Please refer to Appendix A

10. POWER SPECTRAL DENSITY

10.1. Block Diagram of Test Setup



10.2. Specification Limits

Frequency Band (MHz)	Category	Limit
5150 to 5250	Outdoor Access Point	17dBm/MHz
	Fixed point-to-point Access Point	
	Indoor Access Point	
	Mobile and Portable client device	11 dBm/MHz
5250 to 5350	N/A	11 dBm/MHz
5470 to 5725		11 dBm/MHz
5725 to 5850		30dBm/500 kHz

10.3. Test Procedure

Following measurement procedure is reference to KDB 789033 D02 General UNII Test Procedures New Rules v02r01:

■ Method AVGSA-2 (Spectrum channel power)

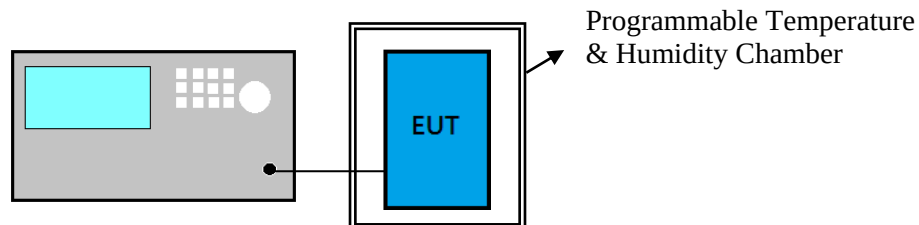
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 MHz
- (3) Set the video bandwidth (VBW) ≥ 3 MHz.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Use peak search function to find out the maximum power density.
- (8) Duty cycle factor is added when duty cycle presented in section 3.7 is $< 98\%$.

10.4. Test Results

Please refer to Appendix A

11. FREQUENCY STABILITY

11.1. Block Diagram of Test Setup



11.2. Specification Limits

NONE

11.3. Test Procedure

- (1) Frequency: Test frequency.
- (2) Span: enough to cover the complete power envelope
- (3) RBW: 1MHz(modulation ON) ; 10KHz(CW)
- (4) VBW: 1MHz(modulation ON) ; 10KHz(CW)
- (5) Detector Mode: Positive Peak
- (6) Indication mode: Max hold
- (7) Find the peak frequency and take calculate by the formula:
(Measurement Value-declaration frequency)/ declaration frequency)

11.4. Test Results

Please refer to Appendix A



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12.DEVIATION TO TEST SPECIFICATIONS

【NONE】



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APPDNDIX A

TEST DATA AND PLOTS

(Model: Kamai 7B)

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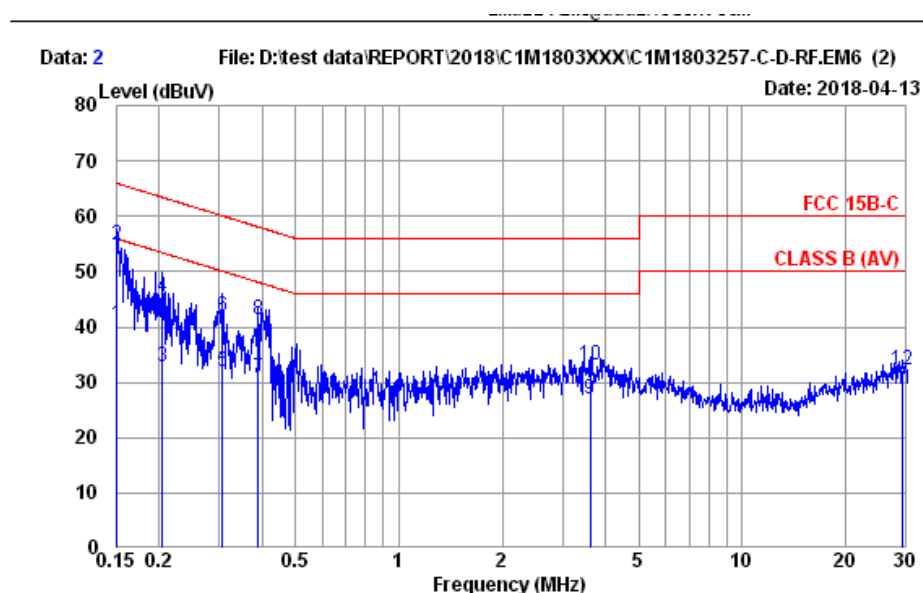
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A.1 CONDUCTED EMISSION

Test Date	2018/04/13	Temp./Hum.	25°C/56%
Test Voltage	AC 120V, 60Hz (Via AC/DC Adapter)		



Site no. : No.8 Shielded Room Data no. : 2
Condition : ENV4200 100169 LISN Phase : NEUTRAL
Limit : FCC 15B-C
Env. / Ins. : 25°C / 56% ESR3(1774) Engineer : Nick Du
EUT : Kamai 7B
Power Rating : 120Vac/60Hz
Test Mode : Operating

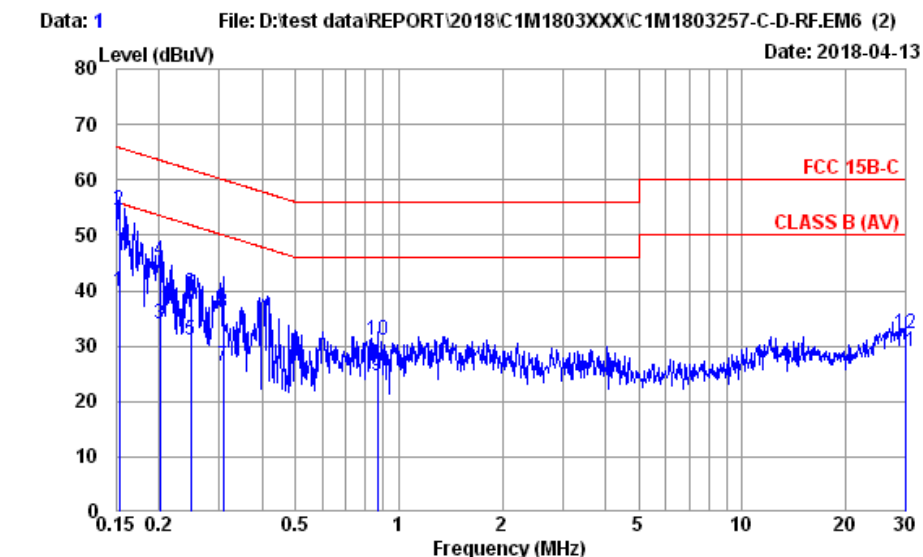
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.151	10.57	0.03	9.86	20.09	40.55	55.96	15.41	Average
2	0.151	10.57	0.03	9.86	34.25	54.71	65.96	11.25	QP
3	0.205	10.52	0.03	9.86	12.43	32.84	53.40	20.56	Average
4	0.205	10.52	0.03	9.86	25.12	45.53	63.40	17.87	QP
5	0.307	10.46	0.04	9.86	11.46	31.82	50.06	18.24	Average
6	0.307	10.46	0.04	9.86	21.68	42.04	60.06	18.02	QP
7	0.389	10.43	0.04	9.86	10.46	30.79	48.08	17.29	Average
8	0.389	10.43	0.04	9.86	20.89	41.22	58.08	16.86	QP
9	3.603	10.57	0.11	9.87	6.55	27.10	46.00	18.90	Average
10	3.603	10.57	0.11	9.87	12.57	33.12	56.00	22.88	QP
11	29.371	16.12	0.33	10.00	2.28	28.73	50.00	21.27	Average
12	29.371	16.12	0.33	10.00	5.92	32.37	60.00	27.63	QP

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

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Test Date	2018/04/13	Temp./Hum.	25°C/56%
Test Voltage	AC 120V, 60Hz (Via AC/DC Adapter)		



Site no. : No.8 Shielded Room Data no. : 1
Condition : ENV4200 100169 LISN Phase : LINE
Limit : FCC 15B-C
Env. / Ins. : 25°C / 56% ESR3(1774) Engineer : Nick Du
EUT : Kamai 7B
Power Rating : 120Vac/60Hz
Test Mode : Operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.153	10.62	0.03	9.86	19.48	39.99	55.82	15.83	Average
2	0.153	10.62	0.03	9.86	33.88	54.39	65.82	11.43	QP
3	0.202	10.56	0.03	9.86	13.56	34.01	53.54	19.53	Average
4	0.202	10.56	0.03	9.86	24.91	45.36	63.54	18.18	QP
5	0.248	10.53	0.03	9.86	10.61	31.03	51.82	20.79	Average
6	0.248	10.53	0.03	9.86	19.28	39.70	61.82	22.12	QP
7	0.308	10.49	0.04	9.86	5.90	26.29	50.02	23.73	Average
8	0.308	10.49	0.04	9.86	15.58	35.97	60.02	24.05	QP
9	0.866	10.44	0.06	9.86	4.19	24.55	46.00	21.45	Average
10	0.866	10.44	0.06	9.86	10.73	31.09	56.00	24.91	QP
11	29.841	16.31	0.34	10.01	2.26	28.92	50.00	21.08	Average
12	29.841	16.31	0.34	10.01	5.62	32.28	60.00	27.72	QP

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

A.2 RADIATED EMISSION

Test Date	2018/04/10~11/21	Temp./Hum.	24°C/51~53%
Test Voltage	AC 120V, 60Hz (via AC/DC Adapter)		

A.2.1 Emissions within Restricted Frequency Bands

A.2.1.1 Frequency 9kHz~30MHz

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

A.2.1.2 Frequency Below 1 GHz

Mode	802.11n-HT20	UNII Band	III
	CDD	Frequency	TX 5825MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
56.1900	13.35	1.67	9.08	24.10	40.00	15.90	Peak
101.7800	17.60	2.29	9.63	29.52	43.50	13.98	Peak
127.9700	18.39	2.60	10.22	31.21	43.50	12.29	Peak
199.7500	15.75	3.34	6.47	25.56	43.50	17.94	Peak
282.2000	19.38	4.14	18.01	41.53	46.00	4.47	Peak
647.8900	24.75	6.91	3.82	35.48	46.00	10.52	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
30.9700	24.27	1.22	13.48	38.97	40.00	1.03	Peak
57.1600	13.14	1.69	22.18	37.01	40.00	2.99	Peak
86.2600	14.93	2.09	16.99	34.01	40.00	5.99	Peak
128.9400	18.34	2.61	14.67	35.62	43.50	7.88	Peak
213.3300	16.71	3.47	8.05	28.23	43.50	15.27	Peak
282.2000	19.38	4.14	15.70	39.22	46.00	6.78	Peak

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Mode	802.11ac-VHT80	UNII Band	III
	SDM	Frequency	TX 5775MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
31.94	23.76	1.25	1.53	26.54	40.00	13.46	Peak
128.94	18.34	2.61	7.50	28.45	43.50	15.05	Peak
291.90	19.44	4.23	11.47	35.14	46.00	10.86	Peak
547.98	23.89	6.59	2.58	33.06	46.00	12.94	Peak
874.87	26.60	8.04	2.42	37.06	46.00	8.94	Peak
962.17	27.46	8.59	2.03	38.08	54.00	15.92	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
31.94	23.76	1.25	7.92	32.93	40.00	7.07	Peak
108.57	18.09	2.38	15.32	35.79	43.50	7.71	Peak
296.75	19.47	4.28	8.93	32.68	46.00	13.32	Peak
547.98	23.89	6.59	2.60	33.08	46.00	12.92	Peak
647.89	24.75	6.91	4.06	35.72	46.00	10.28	Peak
965.08	27.49	8.61	2.90	39.00	54.00	15.00	Peak

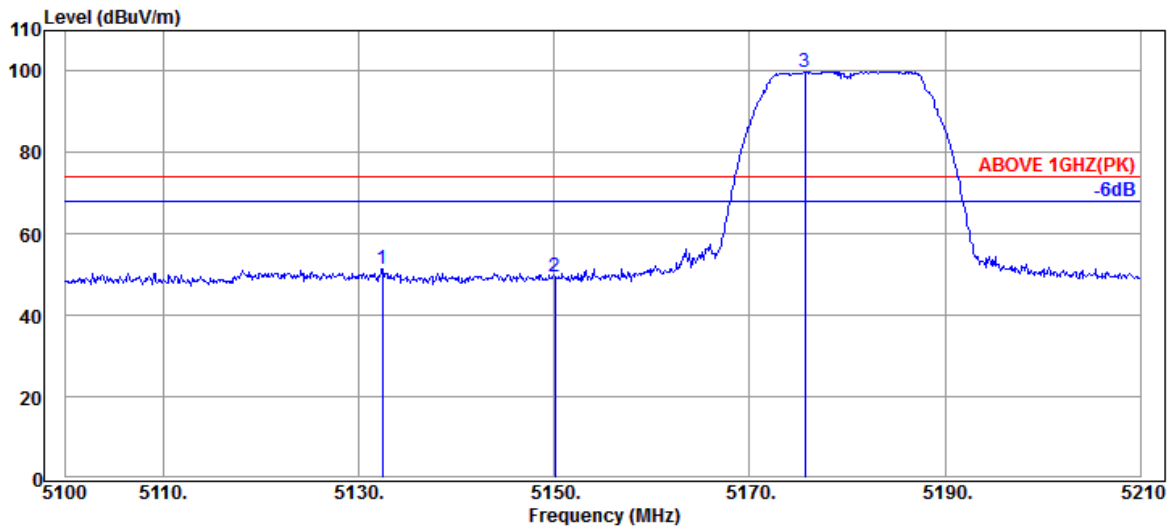
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A.2.1.3 Frequency Above 1 GHz to 10th harmonics

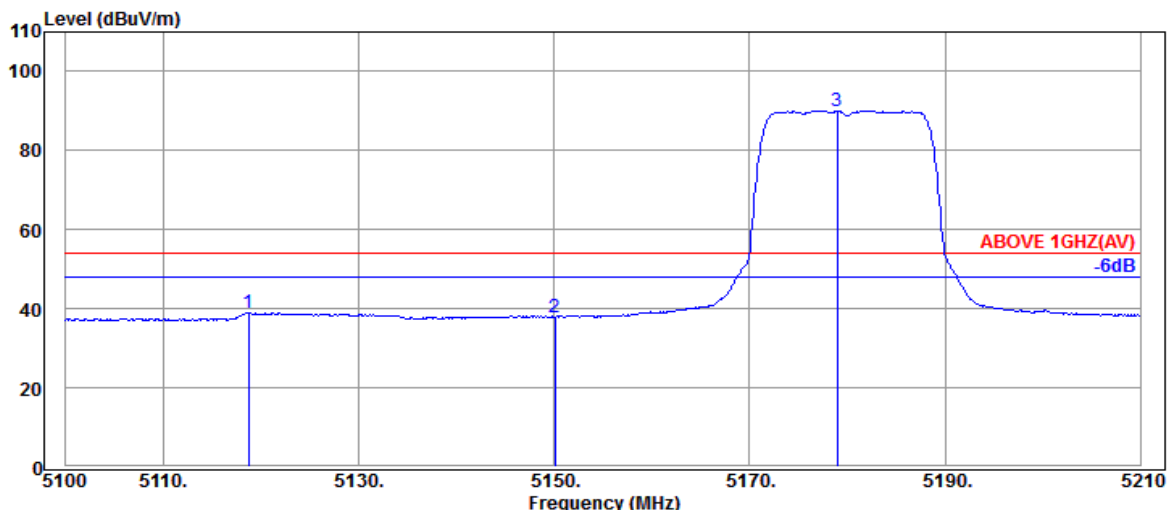
Band Edge:

Mode	802.11a	UNII Band	I
	CDD	Frequency	TX 5180MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5132.45	34.43	13.23	3.87	51.53	74.00	22.47	Peak
5150.05	34.45	13.22	1.71	49.38	74.00	24.62	Peak
5175.68	34.48	13.19	52.28	99.95	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5118.70	34.42	13.24	-8.76	38.90	54.00	15.10	Average
5150.05	34.45	13.22	-9.74	37.93	54.00	16.07	Average
5178.98	34.48	13.19	42.33	90.00	---	---	Average

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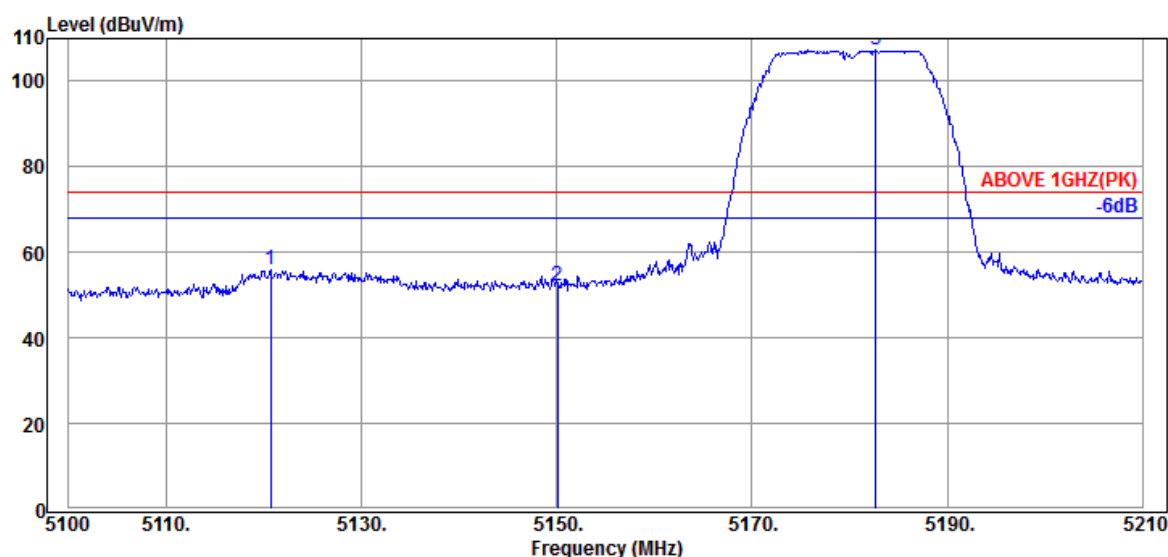
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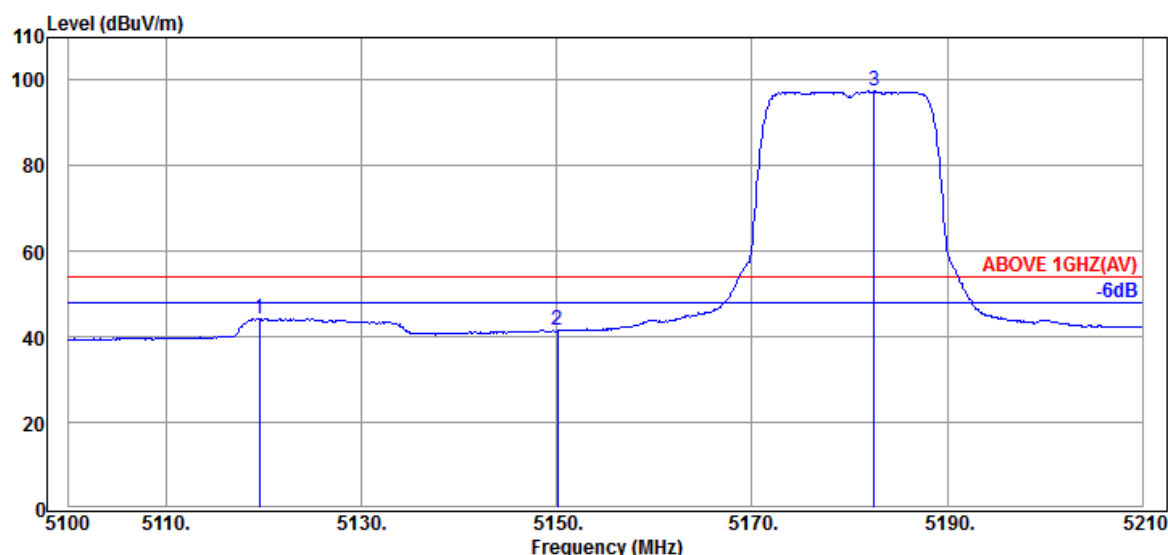
Fax: +886 2 26099303

Mode	802.11a	UNII Band	I
	CDD	Frequency	TX 5180MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5120.68	34.42	13.24	8.14	55.80	74.00	18.20	Peak
5150.05	34.45	13.22	4.31	51.98	74.00	22.02	Peak
5182.72	34.48	13.19	59.54	107.21	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5119.58	34.42	13.24	-3.27	44.39	54.00	9.61	Average
5150.05	34.45	13.22	-6.14	41.53	54.00	12.47	Average
5182.50	34.48	13.19	49.76	97.43	---	---	Average

File Number: C1M1803257

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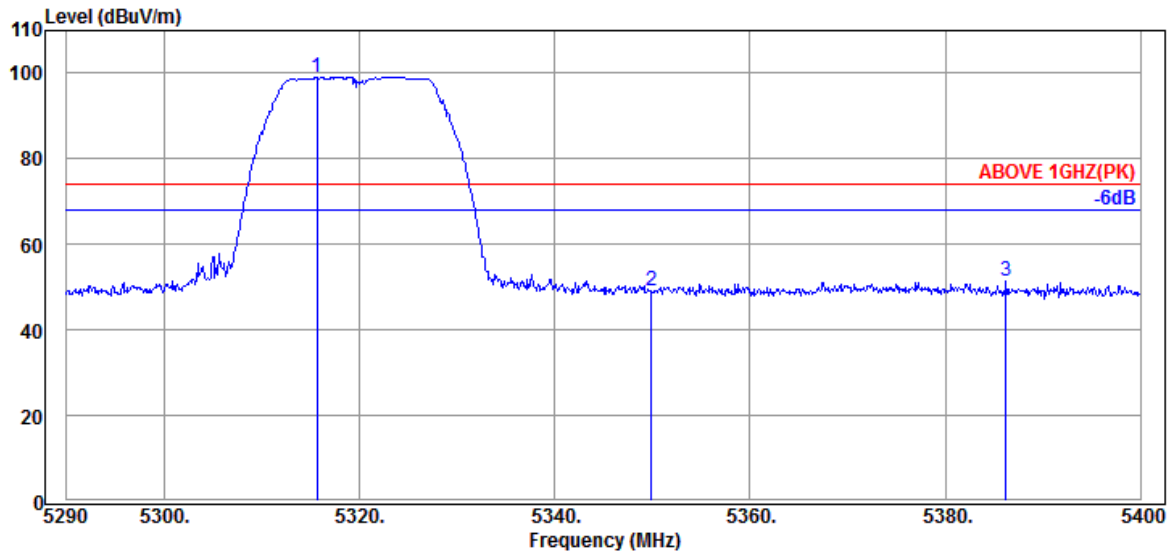
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New Taipei City244, Taiwan

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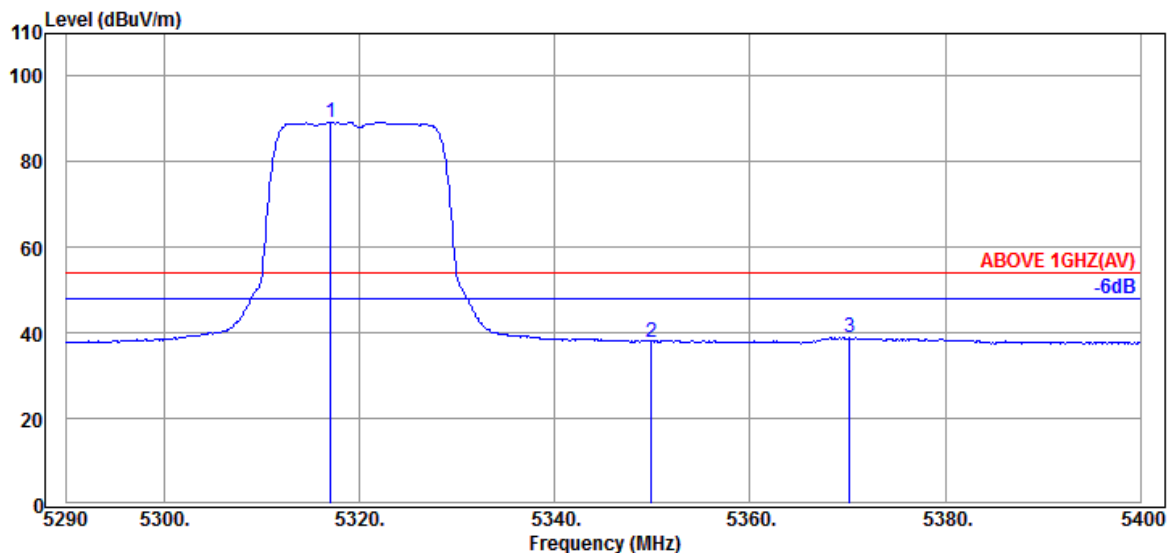
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Mode	802.11a	UNII Band	II-2A
	CDD	Frequency	TX 5320MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5315.63	34.62	13.22	51.31	99.15	---	---	Peak
5349.95	34.65	13.31	1.33	49.29	74.00	24.71	Peak
5386.25	34.68	13.39	3.34	51.41	74.00	22.59	Peak



Antenna at Horizontal Polarization

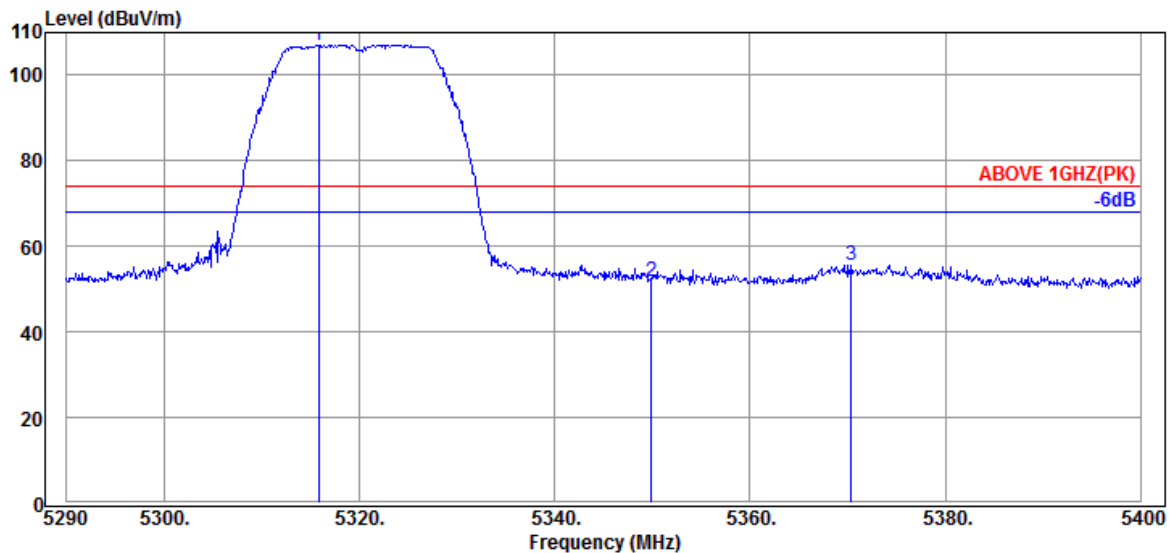
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5317.06	34.62	13.22	41.35	89.19	---	---	Average
5349.95	34.65	13.31	-10.00	37.96	54.00	16.04	Average
5370.19	34.67	13.35	-9.19	38.83	54.00	15.17	Average

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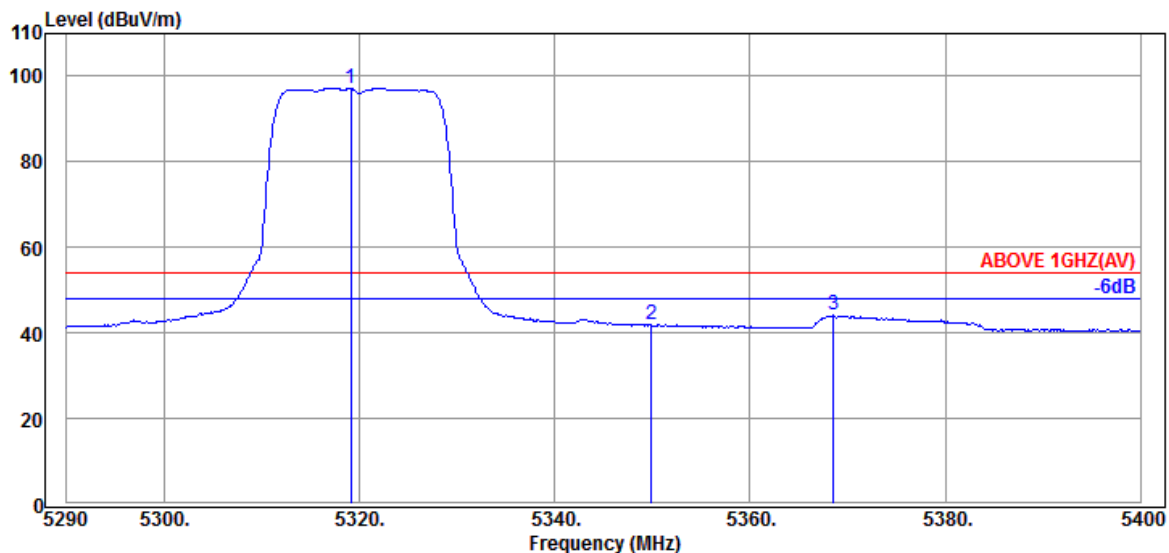
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Mode	802.11a	UNII Band	II-2A
	CDD	Frequency	TX 5320MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5315.85	34.62	13.22	59.32	107.16	---	---	Peak
5349.95	34.65	13.31	3.72	51.68	74.00	22.32	Peak
5370.41	34.67	13.35	7.64	55.66	74.00	18.34	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5319.15	34.62	13.22	49.35	97.19	---	---	Average
5349.95	34.65	13.31	-6.17	41.79	54.00	12.21	Average
5368.54	34.67	13.35	-3.88	44.14	54.00	9.86	Average

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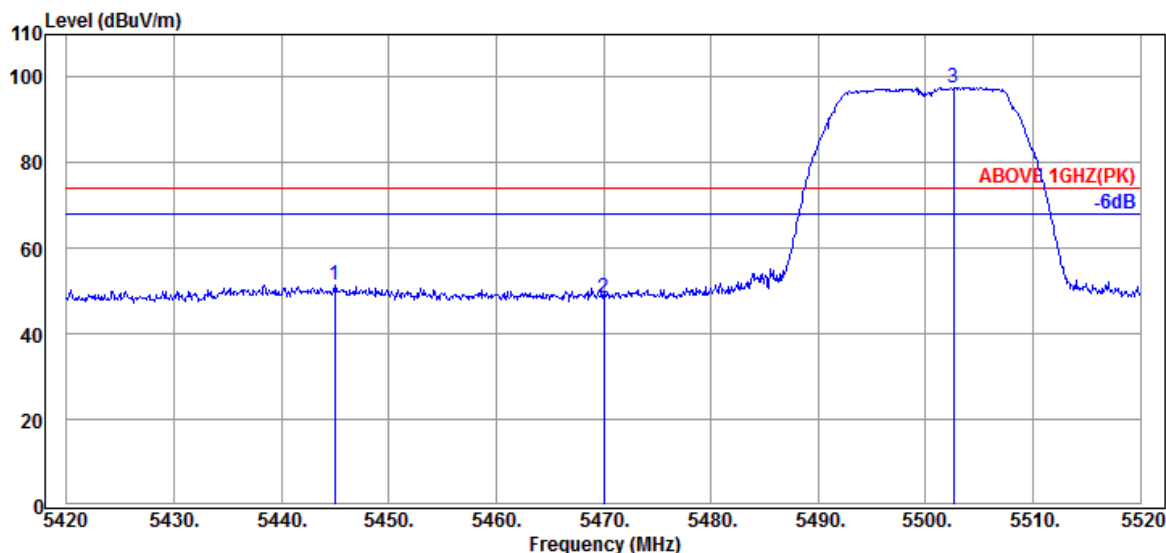
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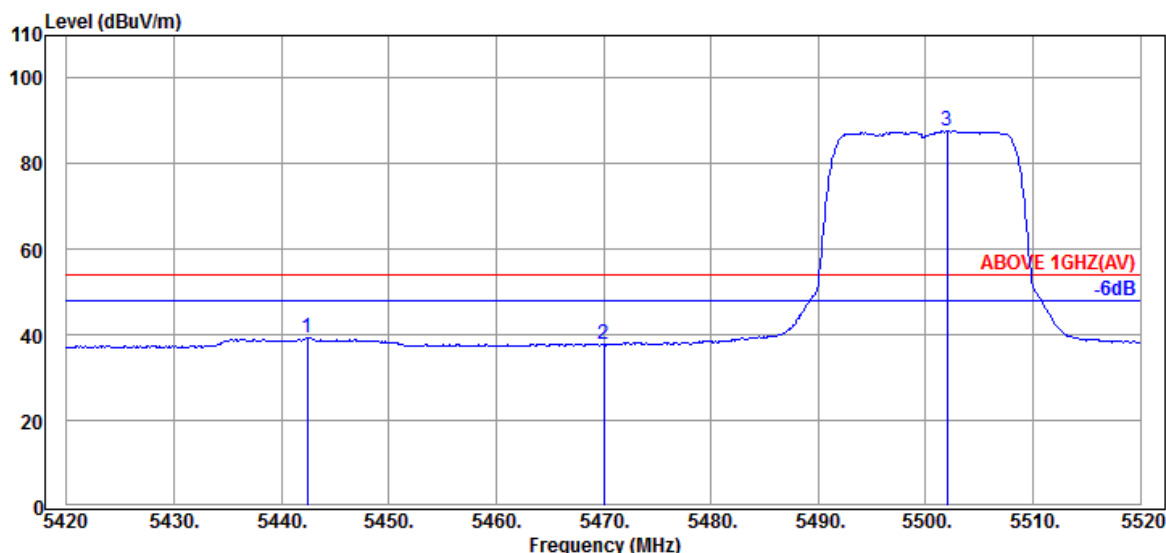
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Mode	802.11a	UNII Band	II-2C
	CDD	Frequency	TX 5500MHz



Antenna at Horizontal Polarization

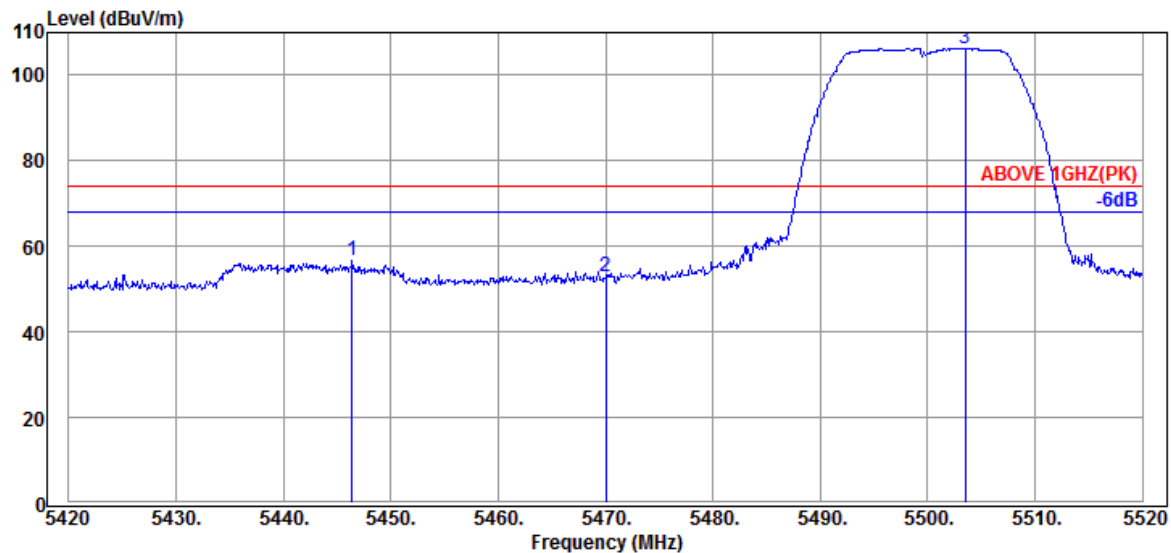
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5445.00	34.73	13.48	3.14	51.35	74.00	22.65	Peak
5470.00	34.77	13.51	0.25	48.53	74.00	25.47	Peak
5502.60	34.80	13.55	49.18	97.53	---	---	Peak



Antenna at Horizontal Polarization

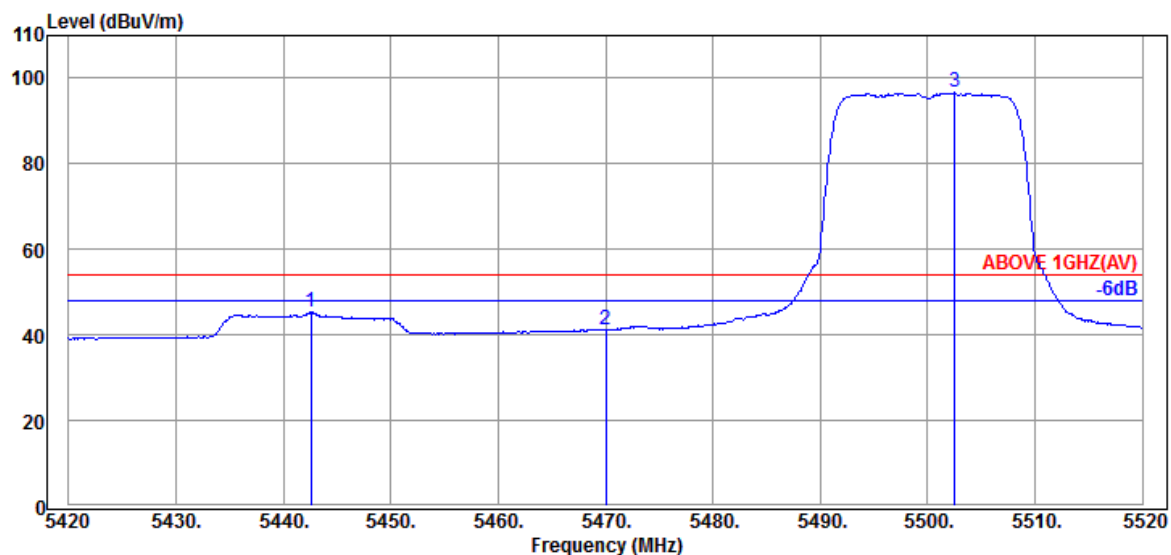
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5442.40	34.73	13.48	-8.92	39.29	54.00	14.71	Average
5470.00	34.77	13.51	-10.47	37.81	54.00	16.19	Average
5502.00	34.80	13.55	39.29	87.64	---	---	Average

Mode	802.11a	UNII Band	II-2C
	CDD	Frequency	TX 5500MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5446.40	34.75	13.49	8.61	56.85	74.00	17.15	Peak
5470.00	34.77	13.51	4.47	52.75	74.00	21.25	Peak
5503.50	34.80	13.55	57.89	106.24	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5442.60	34.73	13.48	-2.94	45.27	54.00	8.73	Average
5470.00	34.77	13.51	-7.14	41.14	54.00	12.86	Average
5502.50	34.80	13.55	48.26	96.61	---	---	Average

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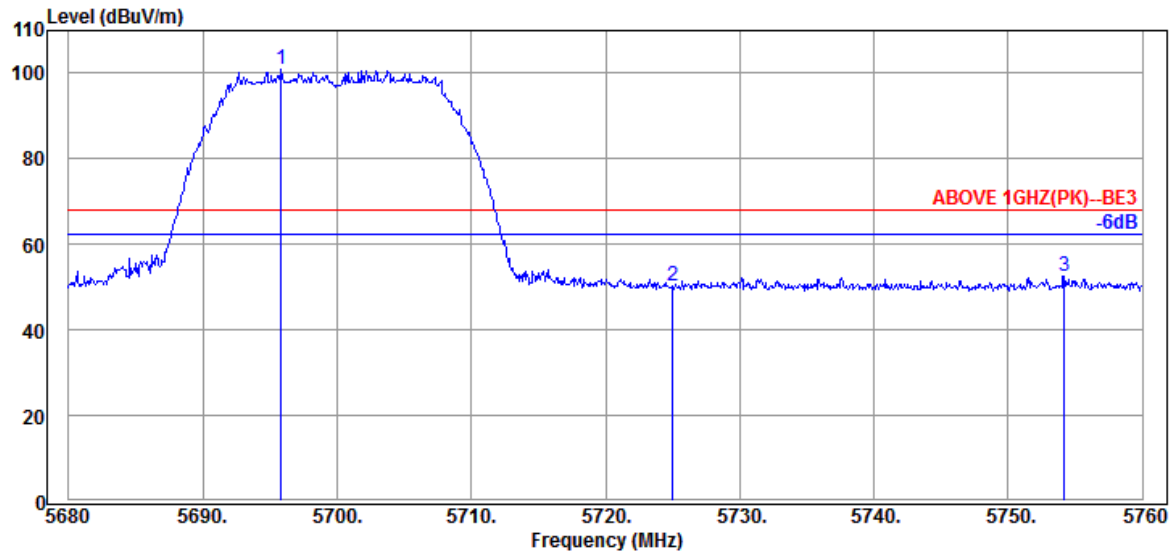
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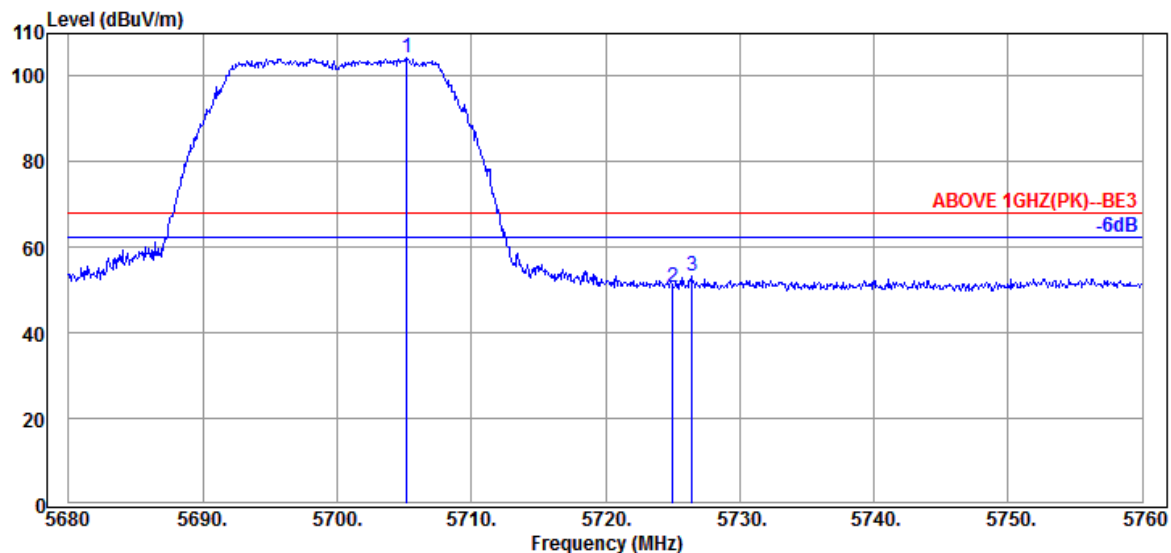
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Mode	802.11a	UNII Band	II-2C
	CDD	Frequency	TX 5700MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5695.84	35.03	13.90	51.90	100.83	68.20	---	Peak
5725.04	35.07	13.98	1.33	50.38	68.20	17.82	Peak
5754.16	35.11	14.06	3.32	52.49	68.20	15.71	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5705.20	35.05	13.94	55.17	104.16	68.20	---	Peak
5725.04	35.07	13.98	1.68	50.73	68.20	17.47	Peak
5726.48	35.07	13.98	4.10	53.15	68.20	15.05	Peak

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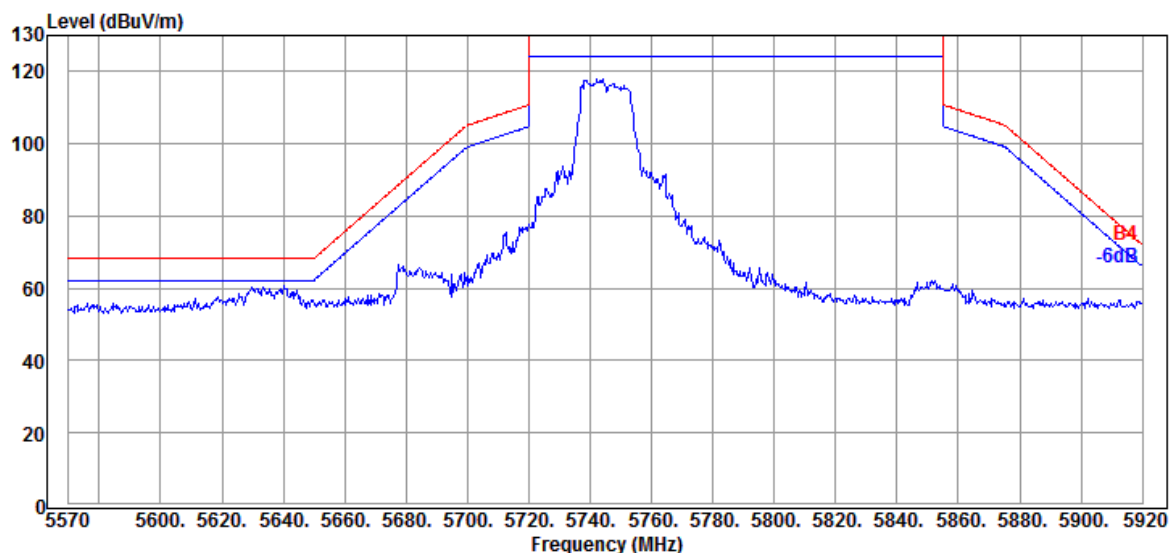
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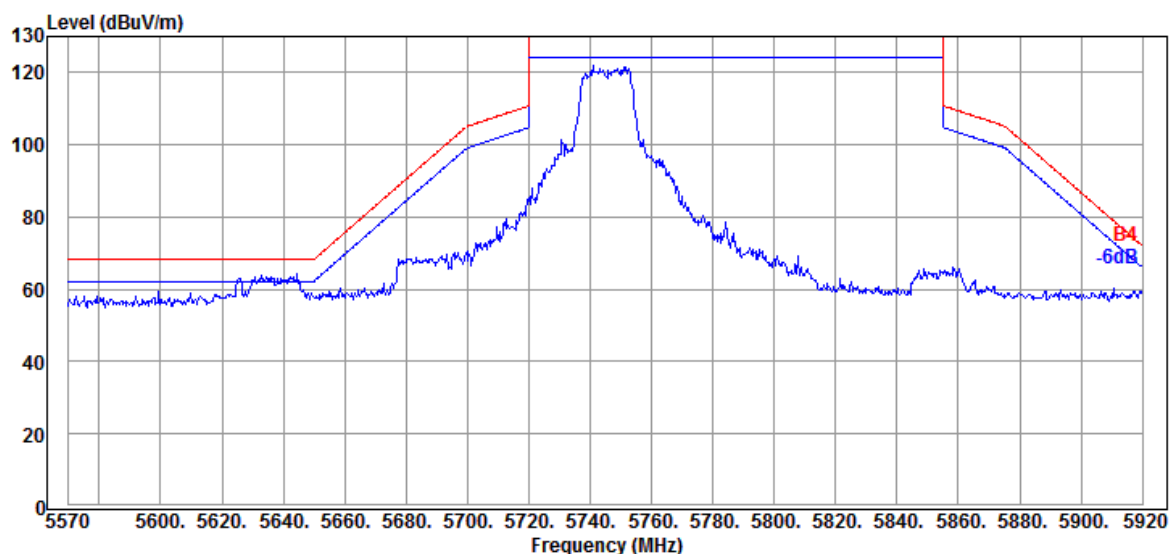
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Mode	802.11a	UNII Band	III
	CDD	Frequency	TX 5745MHz

Antenna at Horizontal Polarization



Antenna at Vertical Polarization

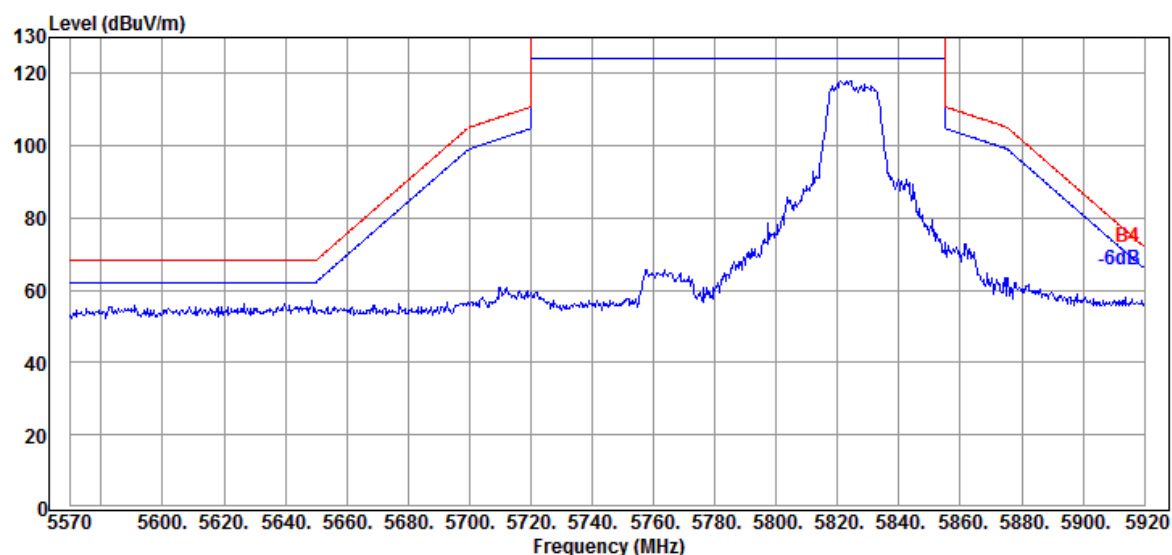


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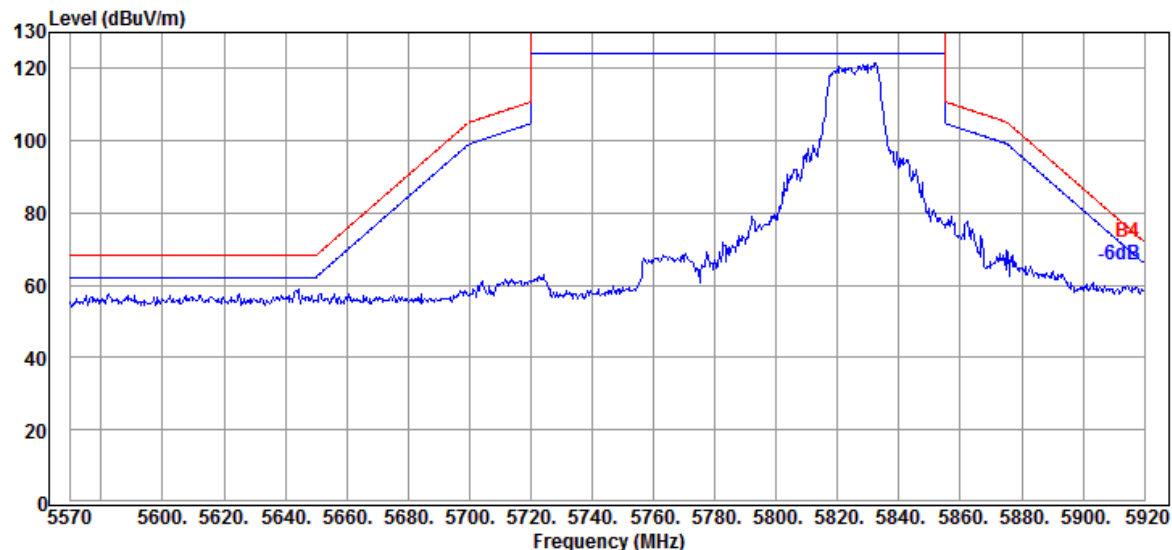
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Mode	802.11a	UNII Band	III
	CDD	Frequency	TX 57825MHz

Antenna at Horizontal Polarization



Antenna at Vertical Polarization



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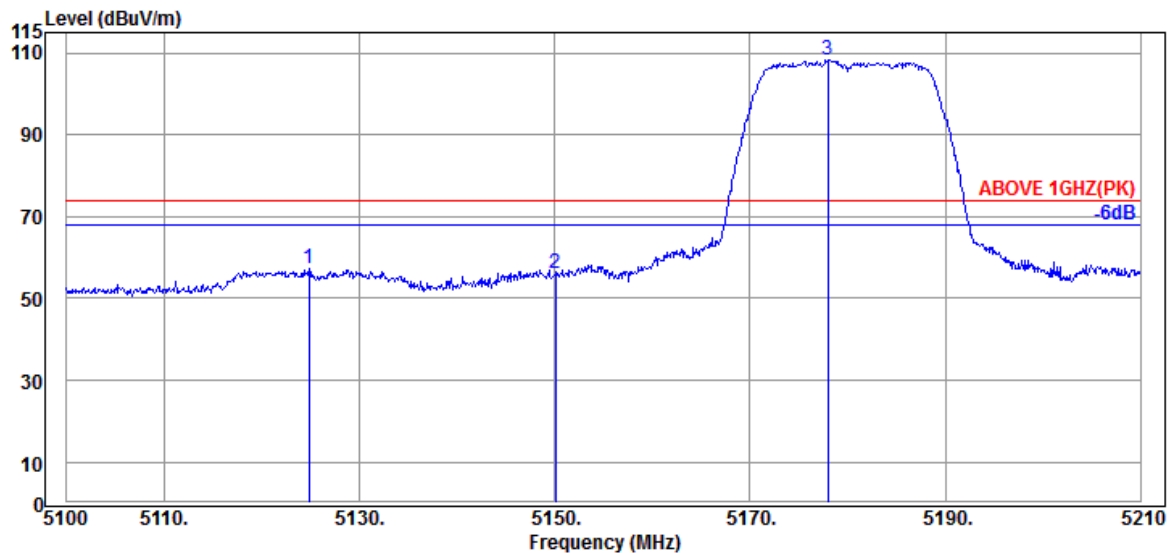
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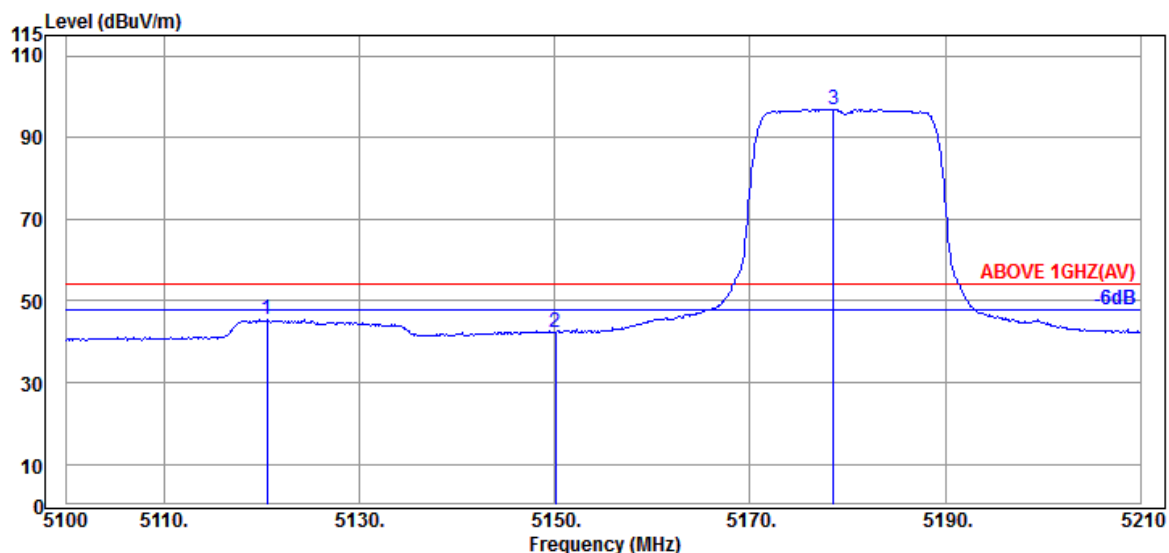
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Mode	802.11n-HT20	UNII Band	I
	CDD	Frequency	TX 5180MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5124.86	34.43	13.23	9.45	57.11	74.00	16.89	Peak
5150.05	34.45	13.22	8.33	56.00	74.00	18.00	Peak
5177.99	34.48	13.19	60.61	108.28	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5120.57	34.42	13.24	-2.39	45.27	54.00	8.73	Average
5150.05	34.45	13.22	-5.35	42.32	54.00	11.68	Average
5178.54	34.48	13.19	49.33	97.00	---	---	Average

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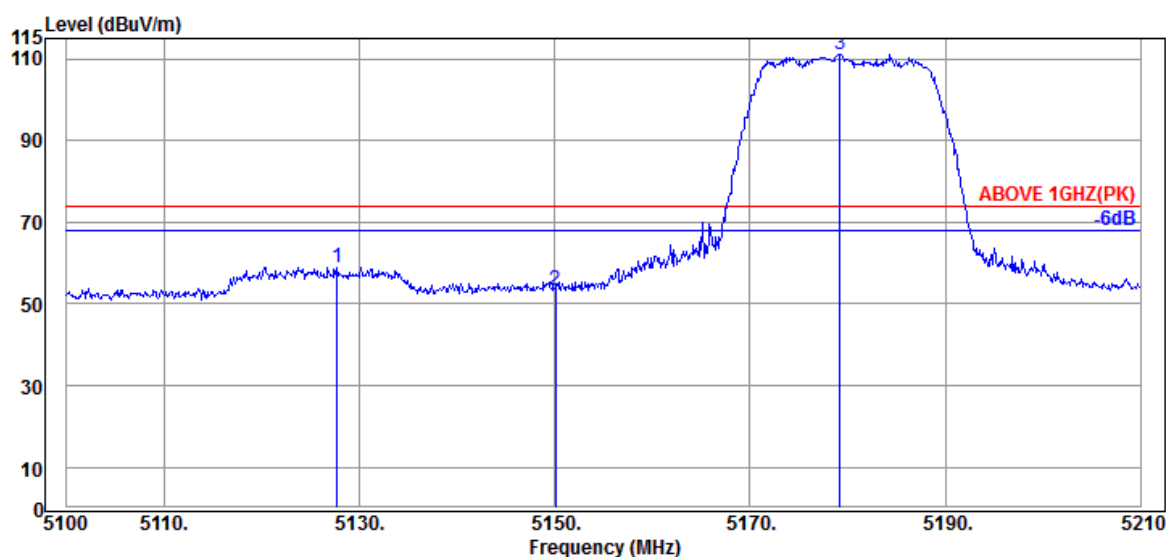
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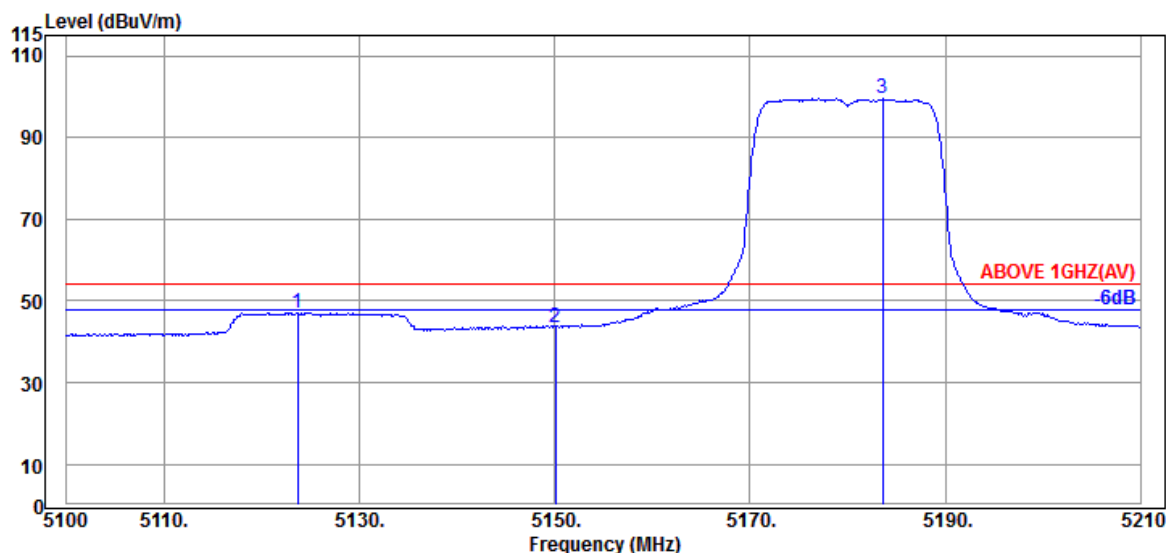
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Mode	802.11n-HT20	UNII Band	I
	CDD	Frequency	TX 5180MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5127.72	34.43	13.23	11.41	59.07	74.00	14.93	Peak
5150.05	34.45	13.22	5.74	53.41	74.00	20.59	Peak
5179.20	34.48	13.19	63.48	111.15	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5123.65	34.43	13.23	-0.58	47.08	54.00	6.92	Average
5150.05	34.45	13.22	-4.11	43.56	54.00	10.44	Average
5183.60	34.48	13.19	51.80	99.47	---	---	Average

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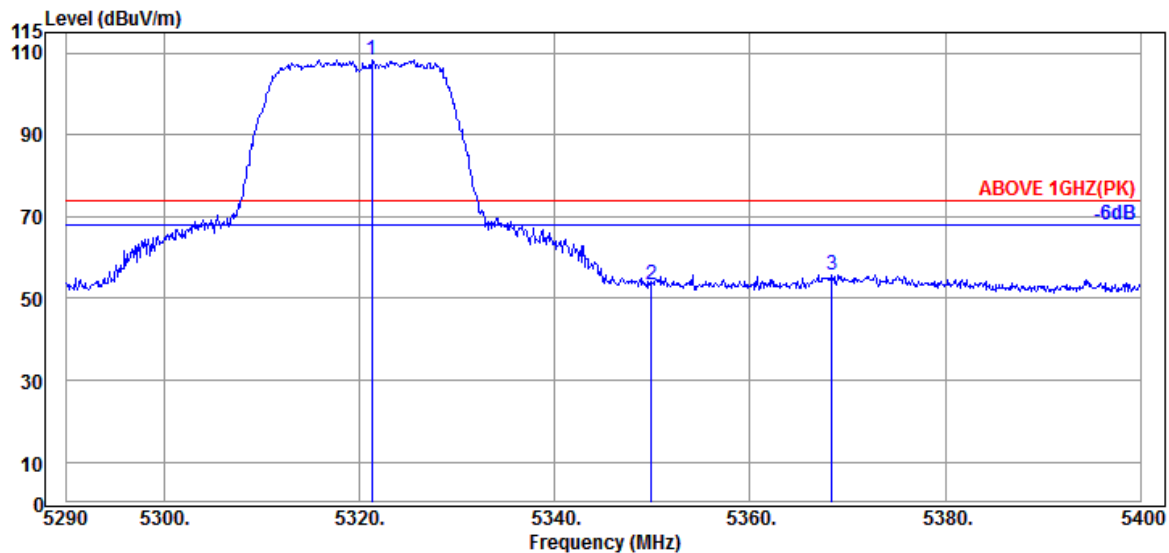
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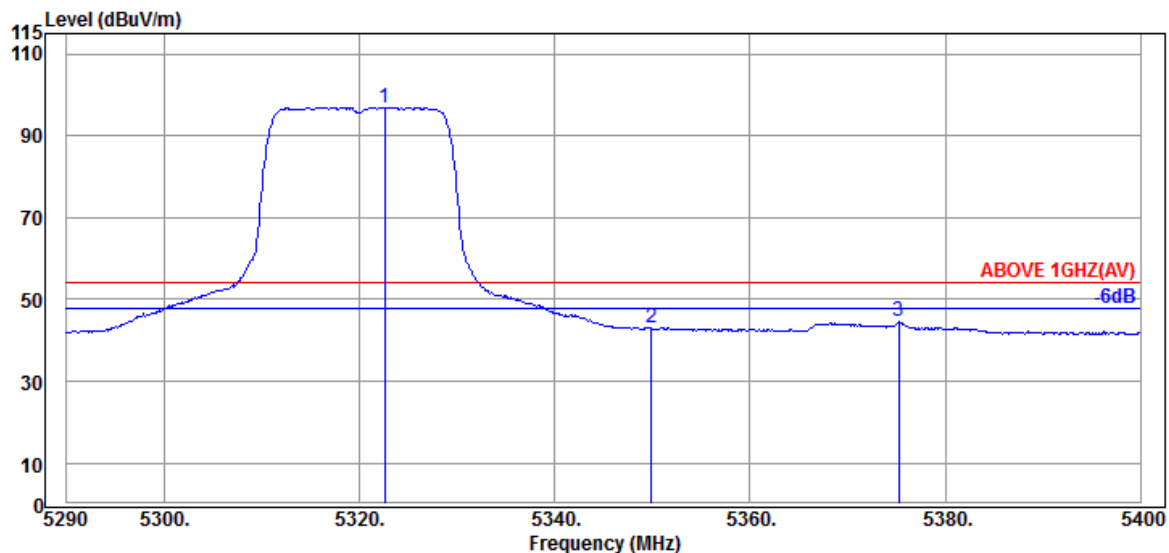
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Mode	802.11n-HT20	UNII Band	II-2A
	CDD	Frequency	TX 5320MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5321.24	34.62	13.22	60.51	108.35	---	---	Peak
5349.95	34.65	13.31	5.49	53.45	74.00	20.55	Peak
5368.43	34.67	13.35	7.87	55.89	74.00	18.11	Peak



Antenna at Horizontal Polarization

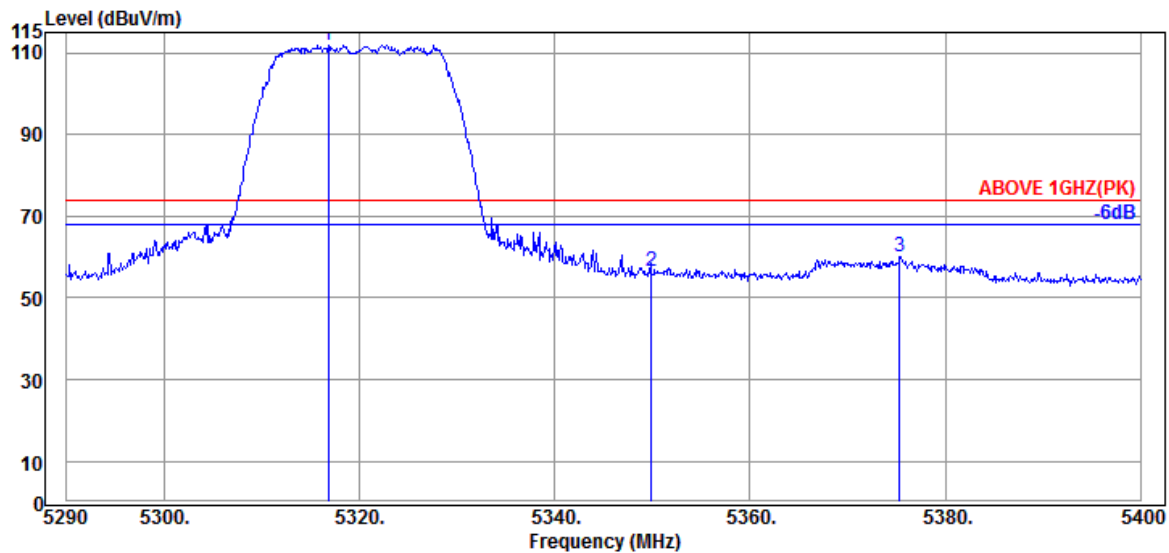
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5322.56	34.62	13.22	49.16	97.00	---	---	Average
5349.95	34.65	13.31	-4.99	42.97	54.00	11.03	Average
5375.25	34.67	13.35	-3.41	44.61	54.00	9.39	Average

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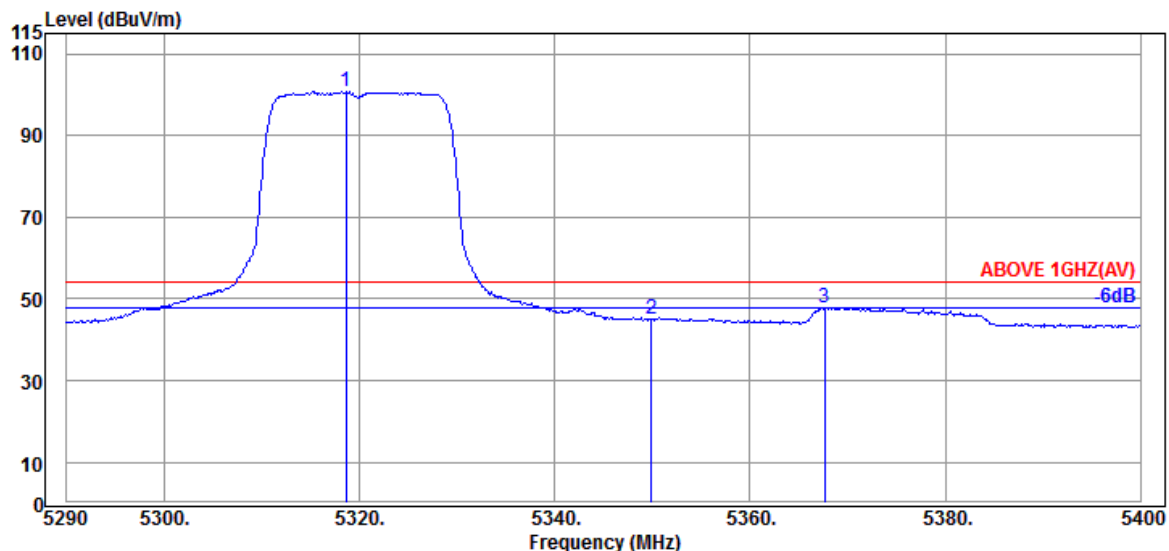
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Mode	802.11n-HT20	UNII Band	II-2A
	CDD	Frequency	TX 5320MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5316.84	34.62	13.22	63.98	111.82	---	---	Peak
5349.95	34.65	13.31	8.58	56.54	74.00	17.46	Peak
5375.36	34.67	13.35	12.06	60.08	74.00	13.92	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5318.60	34.62	13.22	52.90	100.74	54.00	---	Average
5349.95	34.65	13.31	-2.93	45.03	54.00	8.97	Average
5367.66	34.67	13.35	-0.19	47.83	54.00	6.17	Average

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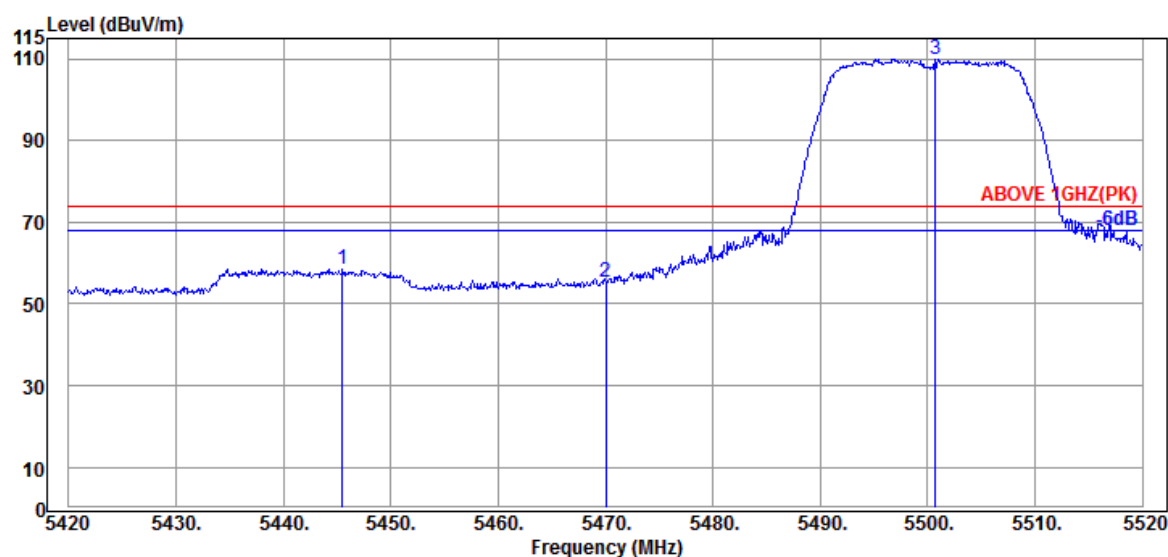
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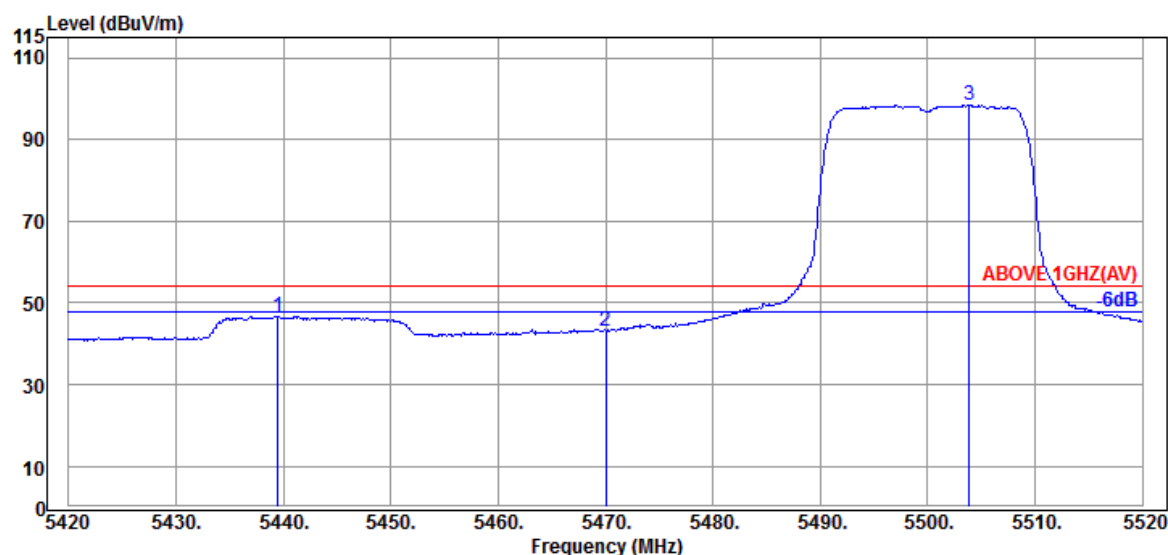
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Mode	802.11n-HT20	UNII Band	II-2C
	CDD	Frequency	TX 5500MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5445.50	34.75	13.49	10.22	58.46	74.00	15.54	Peak
5470.00	34.77	13.51	7.14	55.42	74.00	18.58	Peak
5500.70	34.80	13.55	61.50	109.85	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5439.50	34.73	13.48	-1.64	46.57	54.00	7.43	Average
5470.00	34.77	13.51	-5.22	43.06	54.00	10.94	Average
5503.90	34.80	13.55	50.10	98.45	---	---	Average

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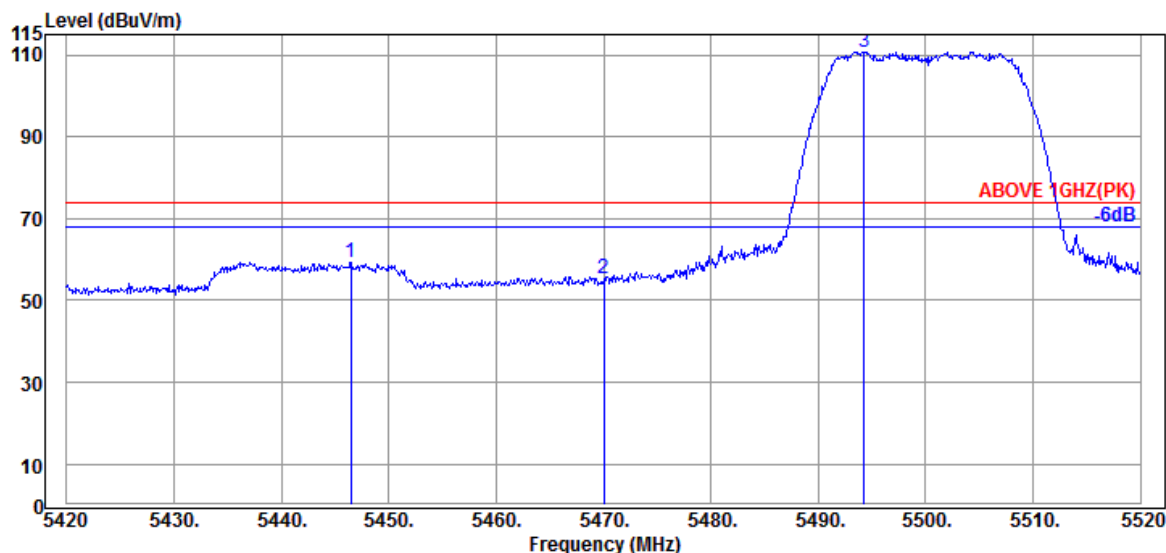
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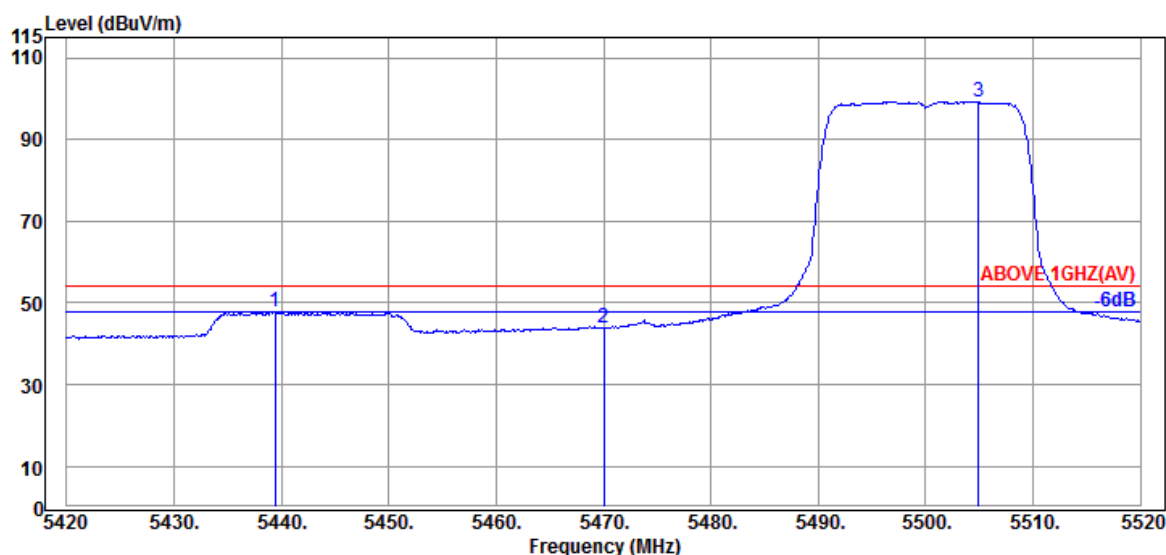
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Mode	802.11n-HT20	UNII Band	II-2C
	CDD	Frequency	TX 5500MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5446.50	34.75	13.49	11.21	59.45	74.00	14.55	Peak
5470.00	34.77	13.51	6.85	55.13	74.00	18.87	Peak
5494.30	34.78	13.53	62.35	110.66	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5439.40	34.73	13.48	-0.43	47.78	54.00	6.22	Average
5470.00	34.77	13.51	-4.41	43.87	54.00	10.13	Average
5504.90	34.80	13.55	51.01	99.36	---	---	Average

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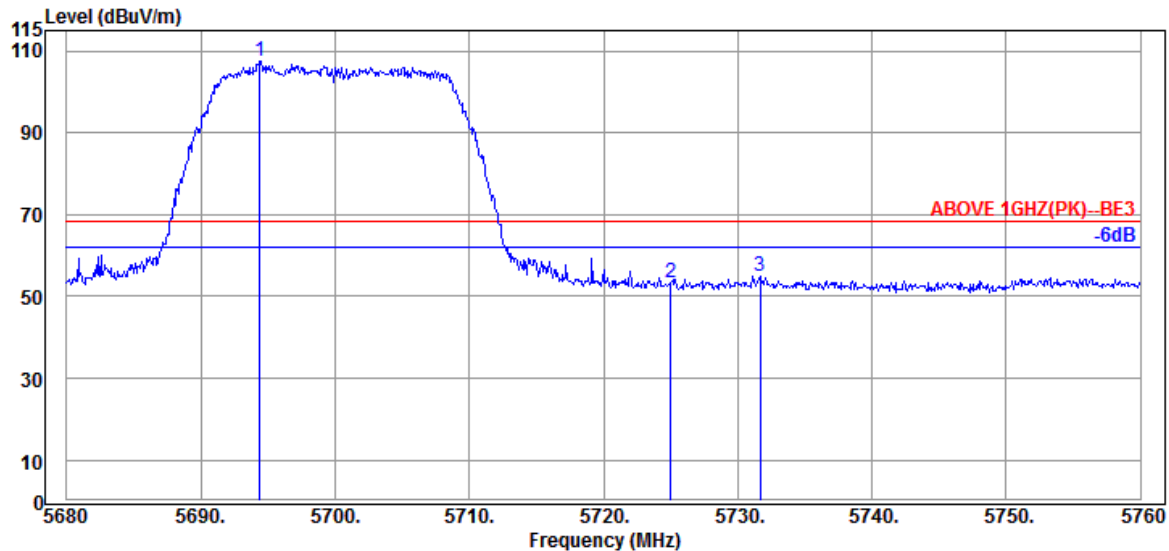
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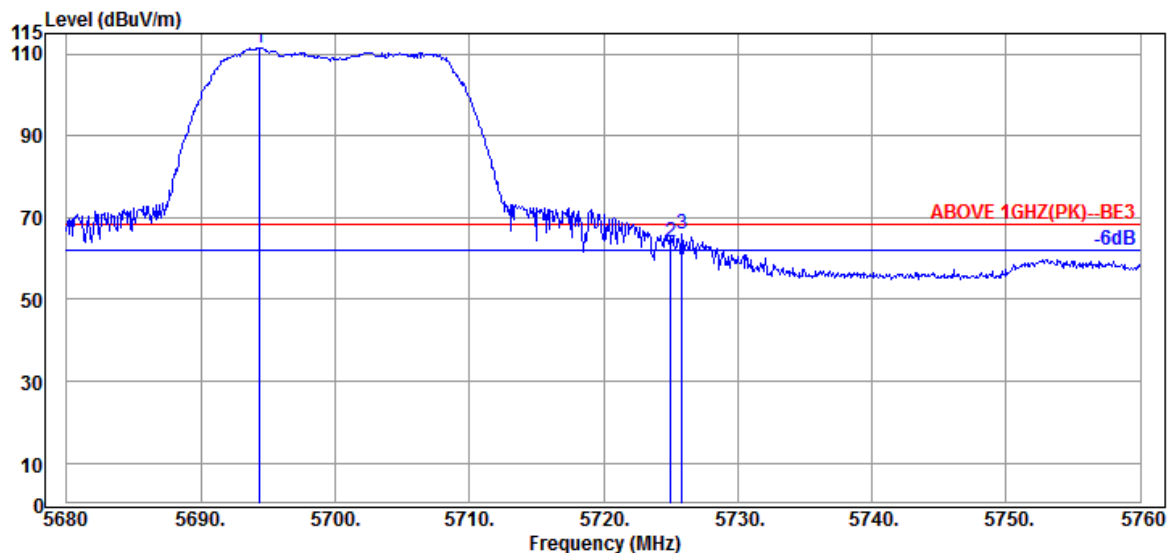
Fax: +886 2 26099303

Mode	802.11n-HT20	UNII Band	II-2C
	CDD	Frequency	TX 5700MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5694.40	35.03	13.90	58.53	107.46	68.20	---	Peak
5725.04	35.07	13.98	4.48	53.53	68.20	14.67	Peak
5731.68	35.07	13.98	6.01	55.06	68.20	13.14	Peak



Antenna at Vertical Polarization

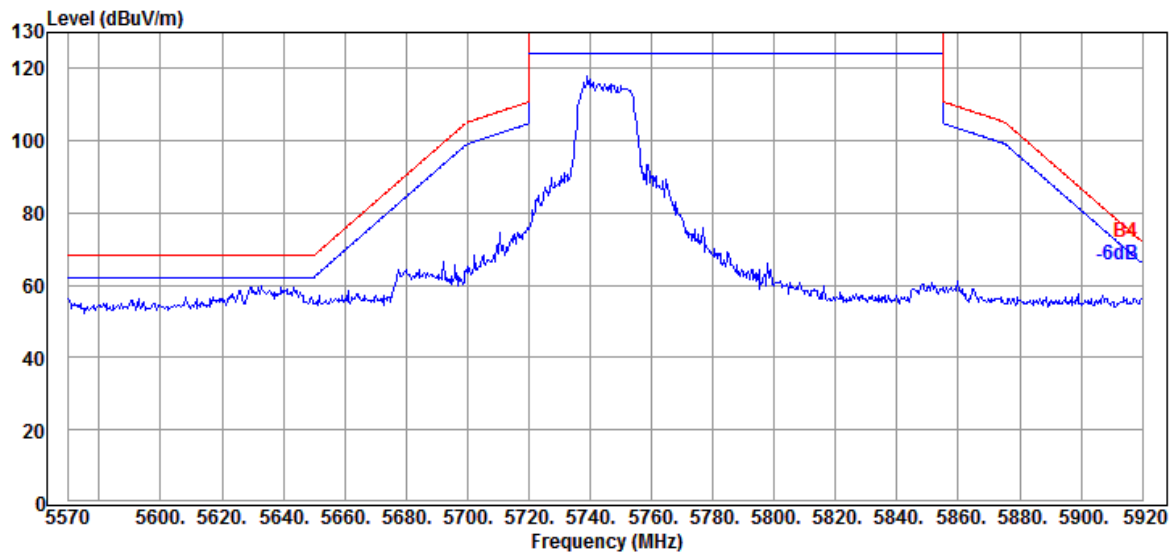
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5694.40	35.03	13.90	62.46	111.39	68.20	---	Peak
5725.04	35.07	13.98	15.02	64.07	68.20	4.13	Peak
5725.84	35.07	13.98	16.80	65.85	68.20	2.35	Peak

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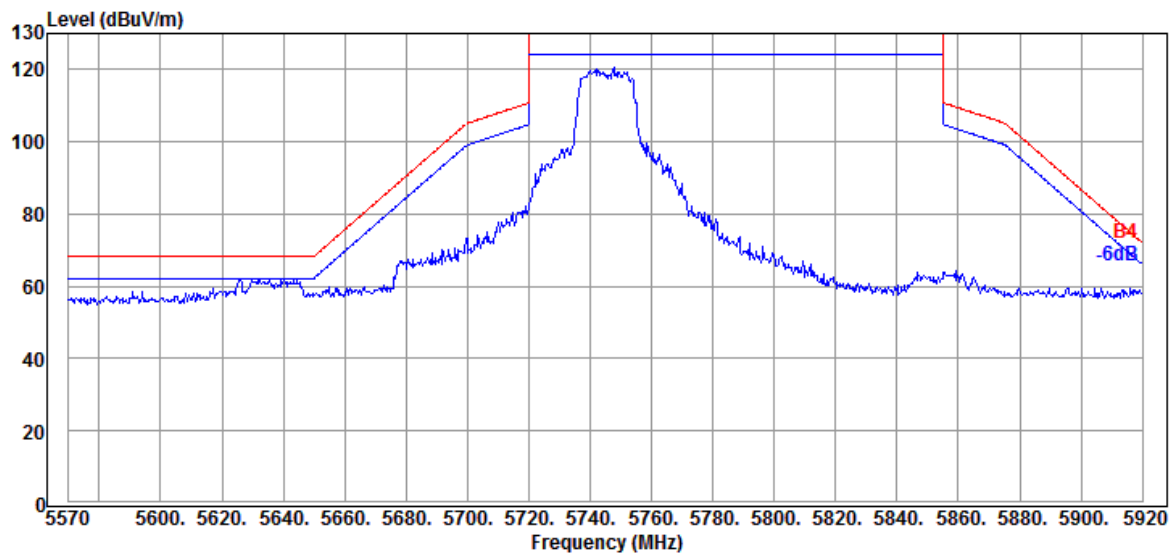
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Fax: +886 2 26099303

Mode	802.11n-HT20	UNII Band	III
	CDD	Frequency	TX 5745MHz

Antenna at Horizontal Polarization



Antenna at Vertical Polarization

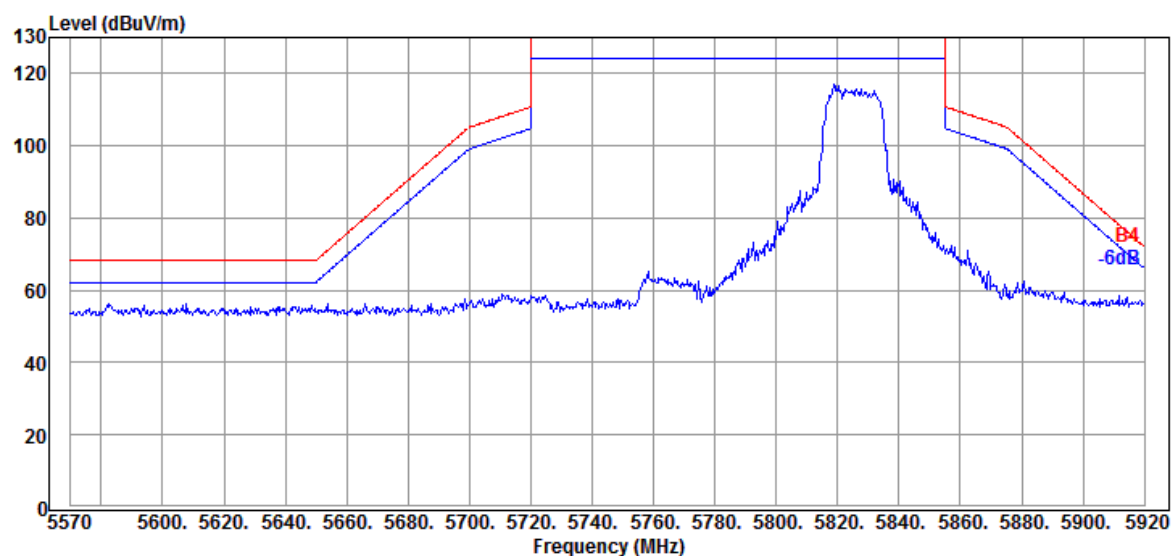


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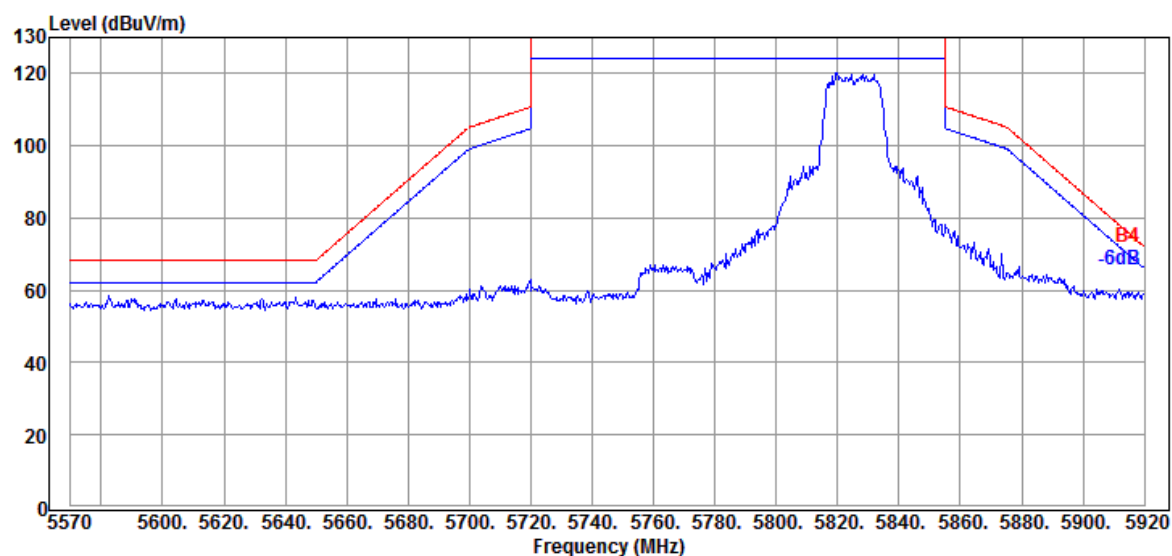
Tel: +886 2 26099301
Fax: +886 2 26099303

Mode	802.11n-HT20	UNII Band	III
	CDD	Frequency	TX 5825MHz

Antenna at Horizontal Polarization



Antenna at Vertical Polarization



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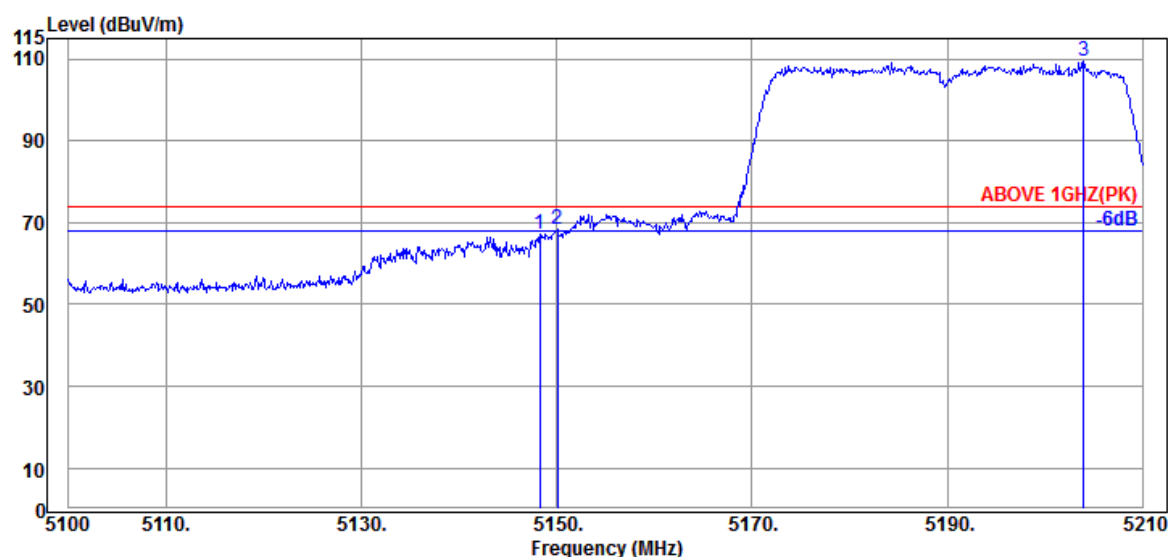
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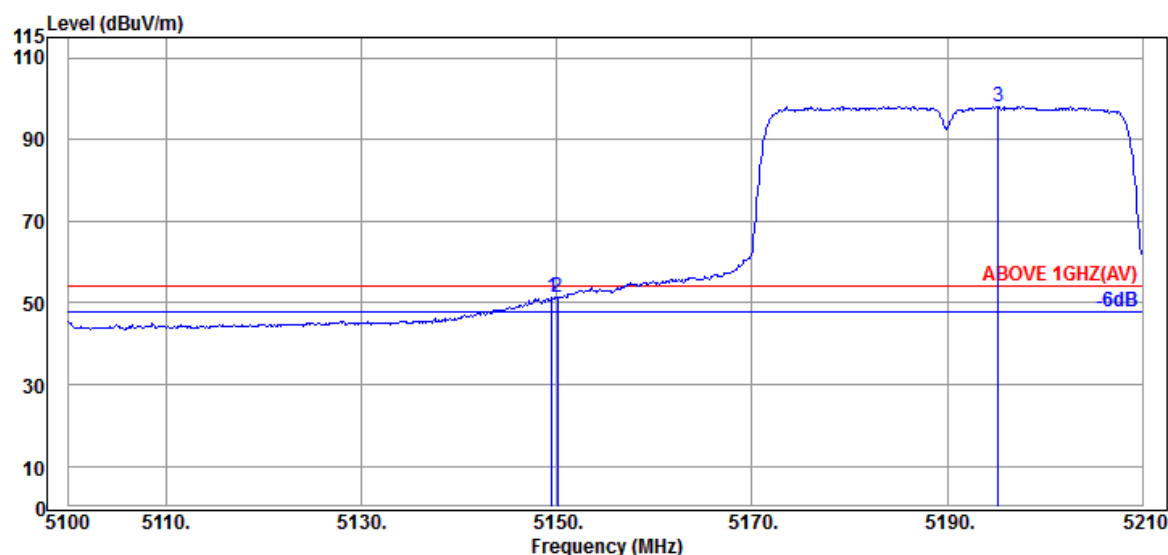
Fax: +886 2 26099303

Mode	802.11ac-VHT40	UNII Band	I
	CDD	Frequency	TX 5190MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5148.2900	34.45	13.22	19.48	67.15	74.00	6.85	Peak
5150.0500	34.45	13.22	20.54	68.21	74.00	5.79	Peak
5203.9500	34.50	13.18	61.79	109.47	---	---	Peak



Antenna at Horizontal Polarization

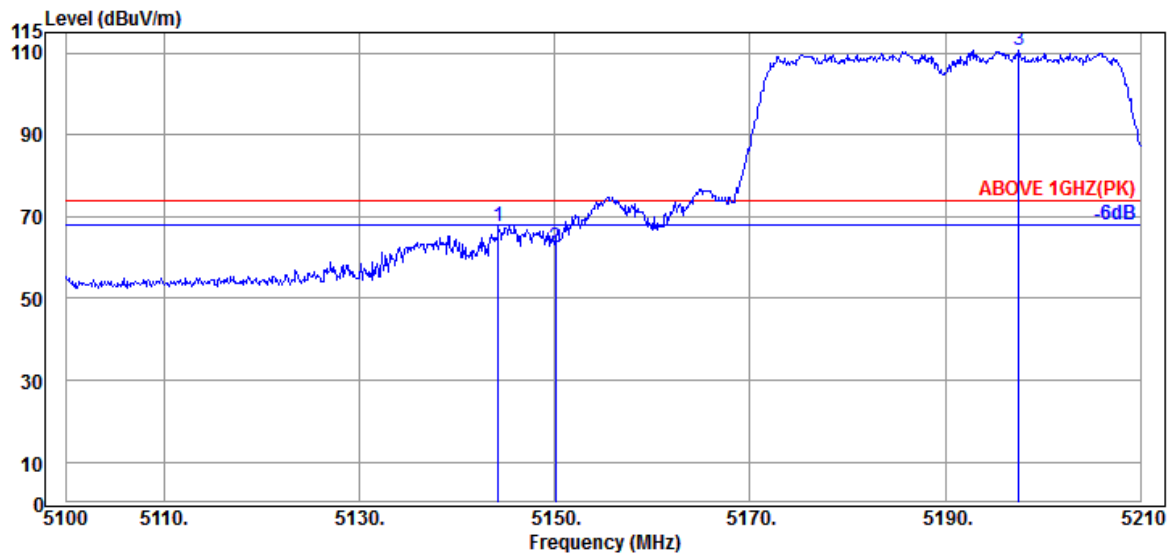
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.5000	34.45	13.22	3.51	51.18	54.00	2.82	Average
5150.0500	34.45	13.22	3.64	51.31	54.00	2.69	Average
5195.2600	34.50	13.18	50.44	98.12	---	---	Average

File Number: C1M1803257

Report Number: EM-F180128

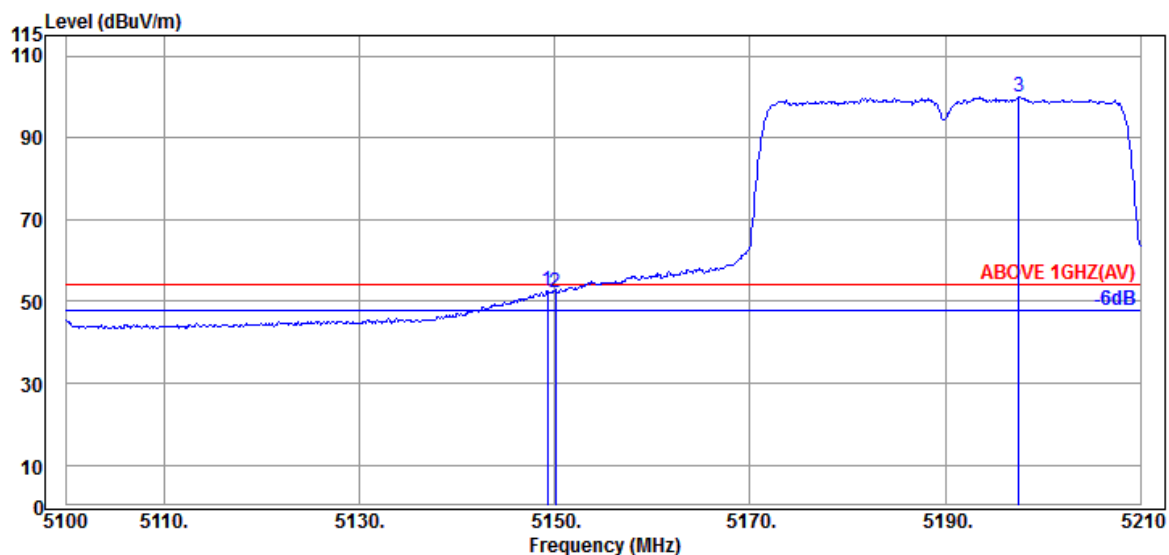
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Mode	802.11ac-VHT40	UNII Band	I
	CDD	Frequency	TX 5190MHz



Antenna at Vertical Polarization

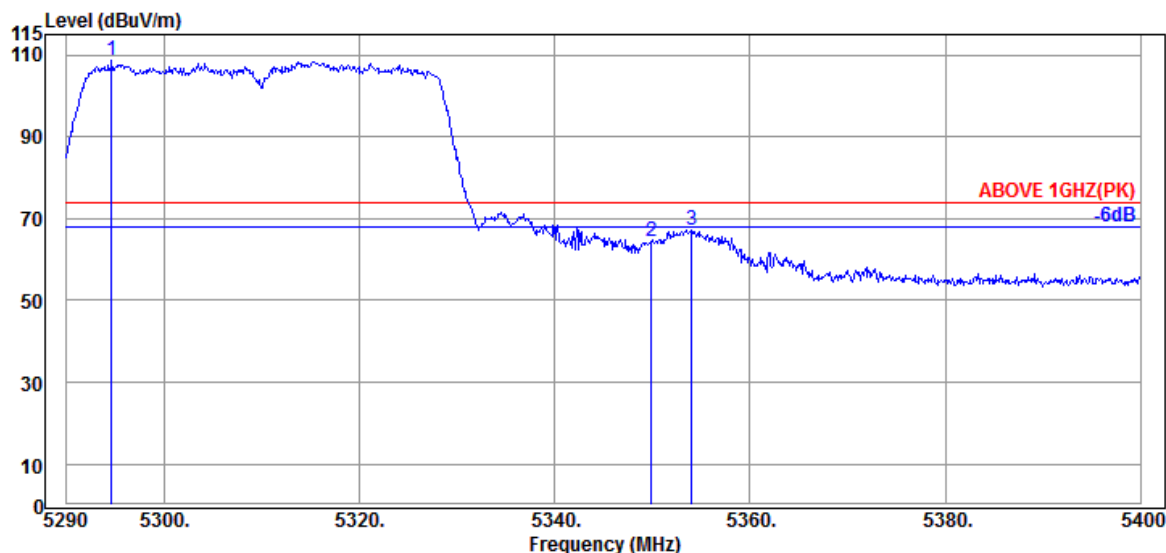
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5144.2200	34.45	13.22	19.96	67.63	74.00	6.37	Peak
5150.0500	34.45	13.22	14.85	62.52	74.00	11.48	Peak
5197.5700	34.50	13.18	62.85	110.53	---	---	Peak



Antenna at Vertical Polarization

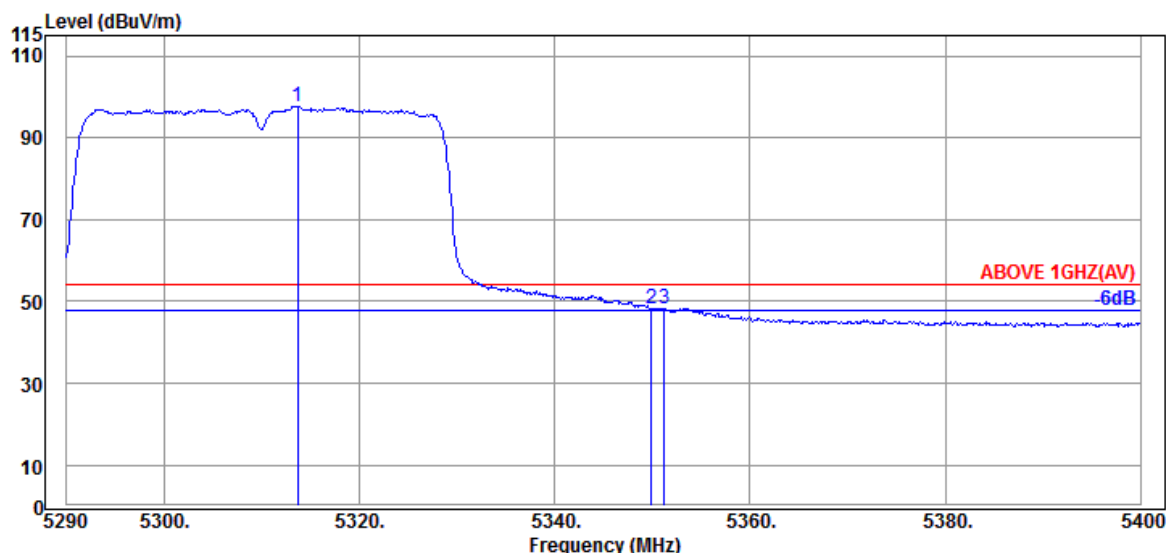
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.2800	34.45	13.22	5.01	52.68	54.00	1.32	Average
5150.0500	34.45	13.22	4.56	52.23	54.00	1.77	Average
5197.5700	34.50	13.18	52.44	100.12	---	---	Average

Mode	802.11ac-VHT40	UNII Band	II-2A
	CDD	Frequency	TX 5310MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5294.6200	34.60	13.17	60.79	108.56	---	---	Peak
5349.9500	34.65	13.31	16.39	64.35	74.00	9.65	Peak
5354.0200	34.65	13.31	19.34	67.30	74.00	6.70	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5313.6500	34.62	13.22	49.81	97.65	---	---	Average
5349.9500	34.65	13.31	0.28	48.24	54.00	5.76	Average
5351.2700	34.65	13.31	0.40	48.36	54.00	5.64	Average

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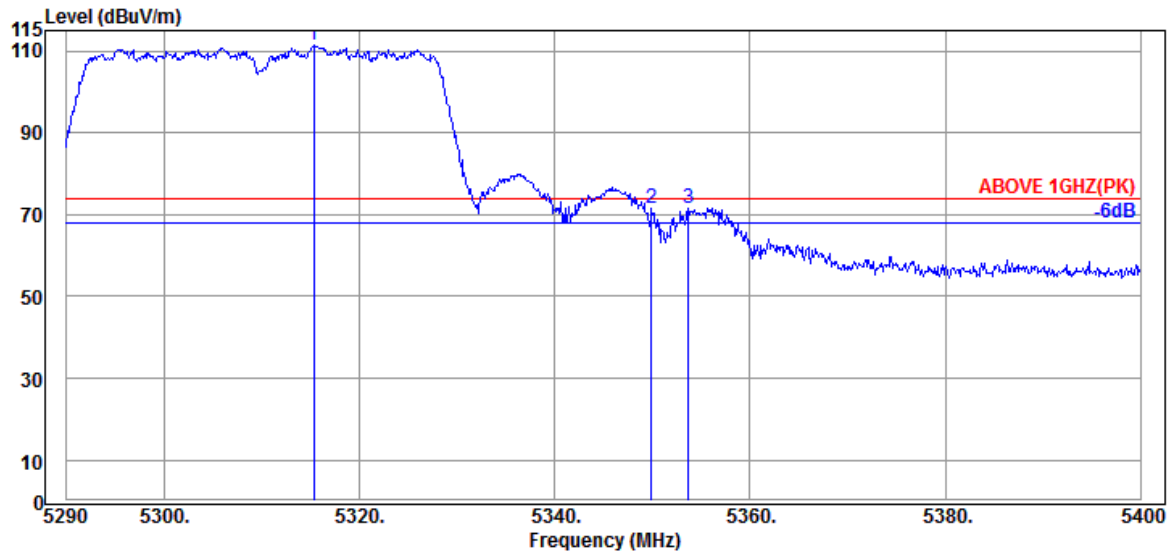
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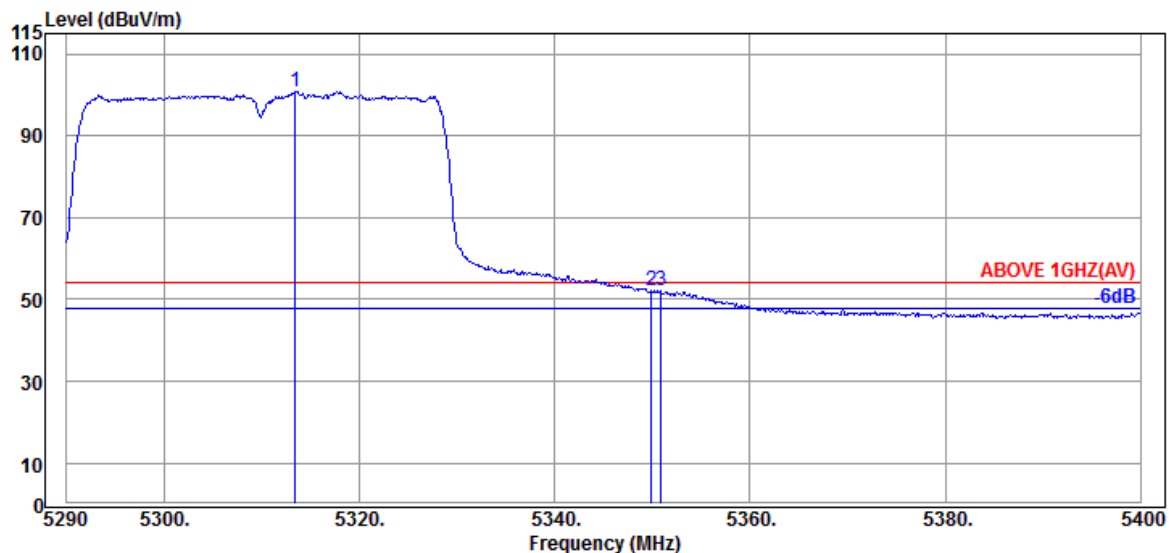
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Mode	802.11ac-VHT40	UNII Band	II-2A
	CDD	Frequency	TX 5310MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5315.3000	34.62	13.22	63.42	111.26	---	---	Peak
5349.9500	34.65	13.31	23.41	71.37	74.00	2.63	Peak
5353.6900	34.65	13.31	23.55	71.51	74.00	2.49	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5313.43	34.62	13.22	52.93	100.77	---	---	Average
5349.95	34.65	13.31	4.36	52.32	54.00	1.68	Average
5350.94	34.65	13.31	4.36	52.32	54.00	1.68	Average

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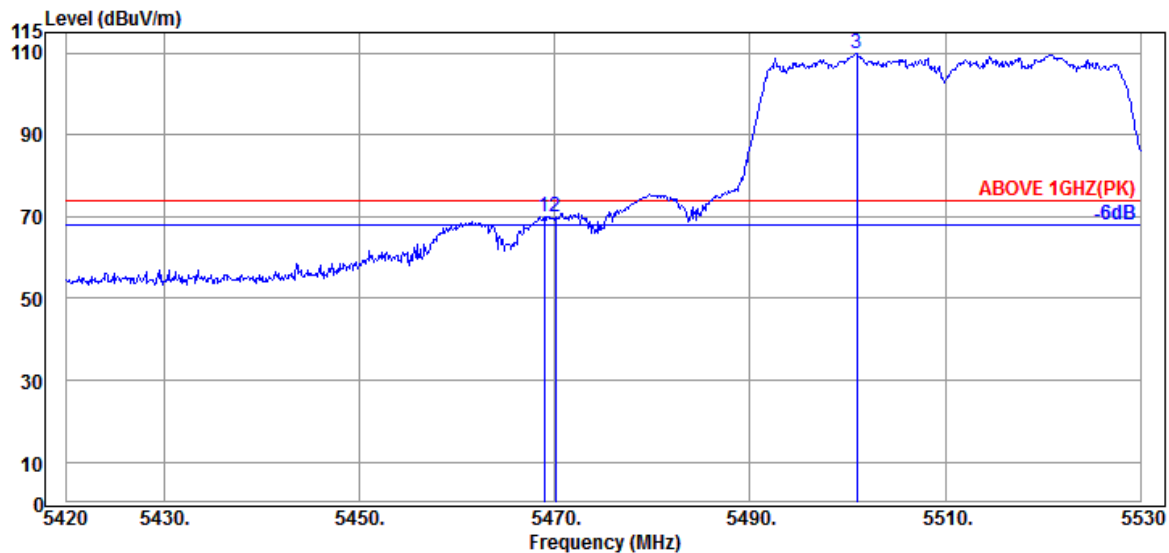
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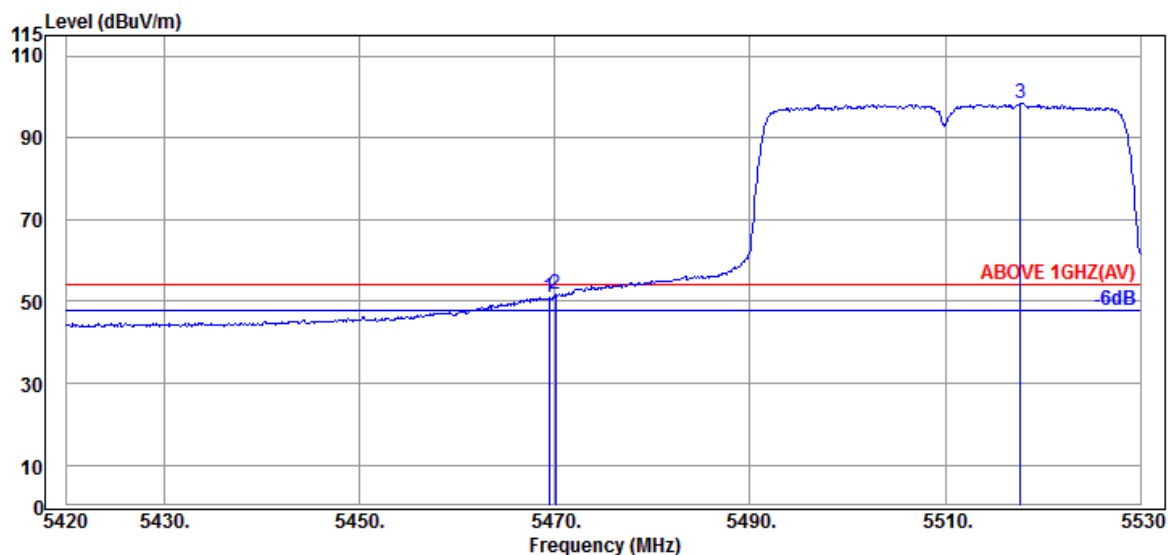
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Mode	802.11ac-VHT40	UNII Band	II-2C
	CDD	Frequency	TX 5510MHz



Antenna at Horizontal Polarization

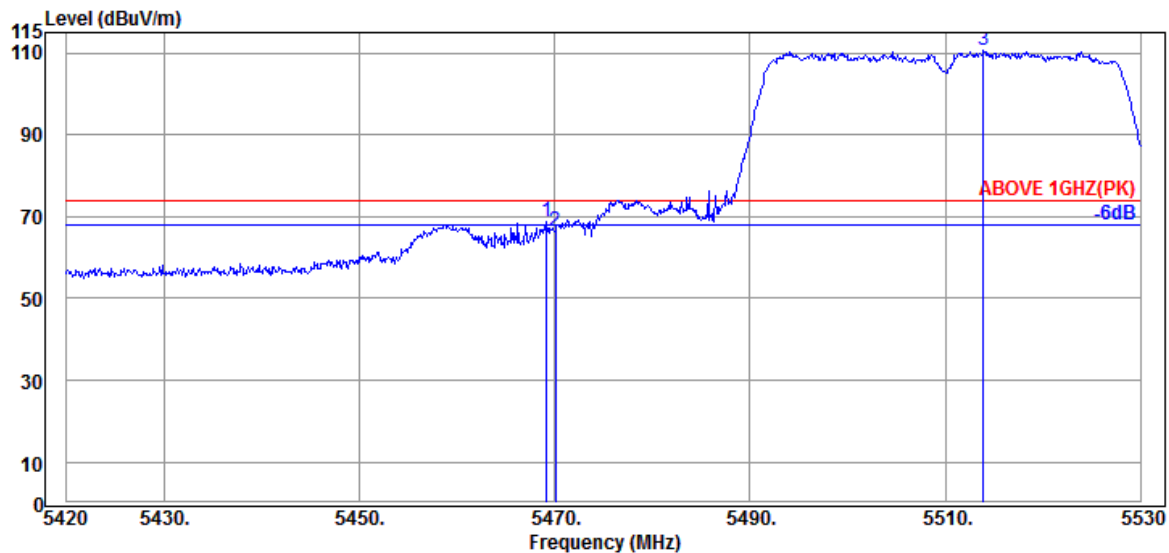
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5468.9500	34.77	13.51	21.74	70.02	74.00	3.98	Peak
5470.0500	34.77	13.51	21.53	69.81	74.00	4.19	Peak
5500.9600	34.80	13.55	61.35	109.70	---	---	Peak



Antenna at Horizontal Polarization

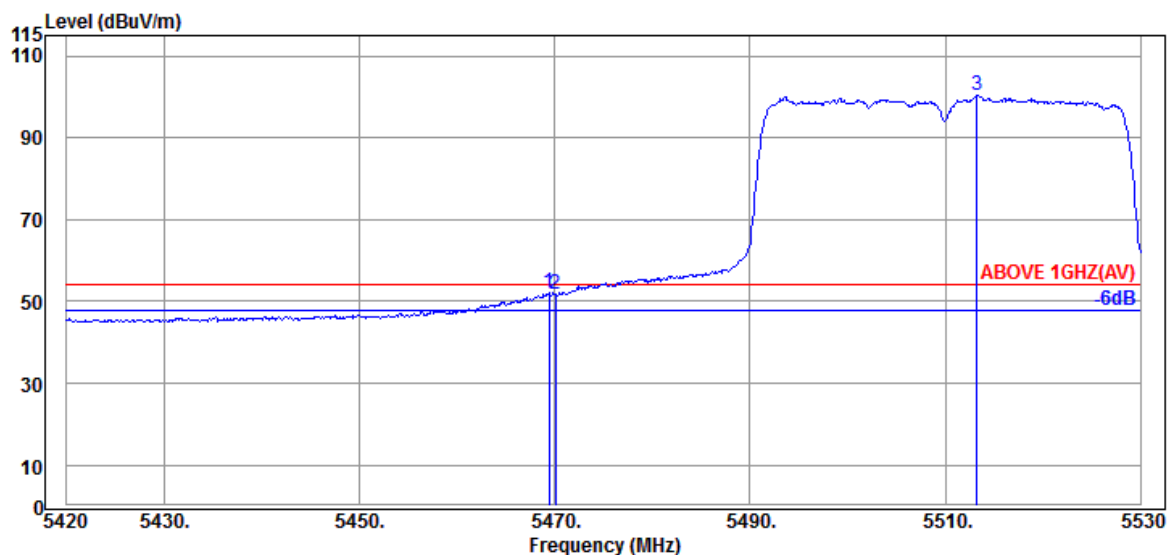
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5469.3900	34.77	13.51	2.89	51.17	54.00	2.83	Average
5470.0500	34.77	13.51	3.31	51.59	54.00	2.41	Average
5517.6800	34.82	13.58	50.01	98.41	---	---	Average

Mode	802.11ac-VHT40	UNII Band	II-2C
	CDD	Frequency	TX 5510MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5469.1700	34.77	13.51	20.48	68.76	74.00	5.24	Peak
5470.0500	34.77	13.51	18.04	66.32	74.00	7.68	Peak
5513.9400	34.82	13.58	62.06	110.46	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5469.3900	34.77	13.51	3.89	52.17	54.00	1.83	Average
5470.0500	34.77	13.51	3.53	51.81	54.00	2.19	Average
5513.2800	34.80	13.55	52.07	100.42	---	---	Average

Audix Technology Corp.

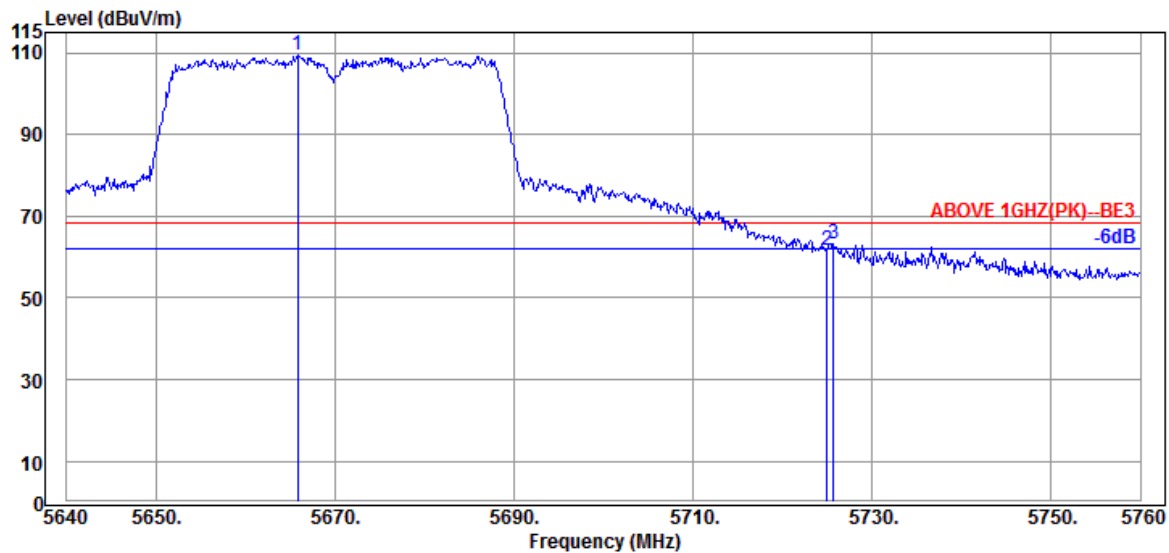
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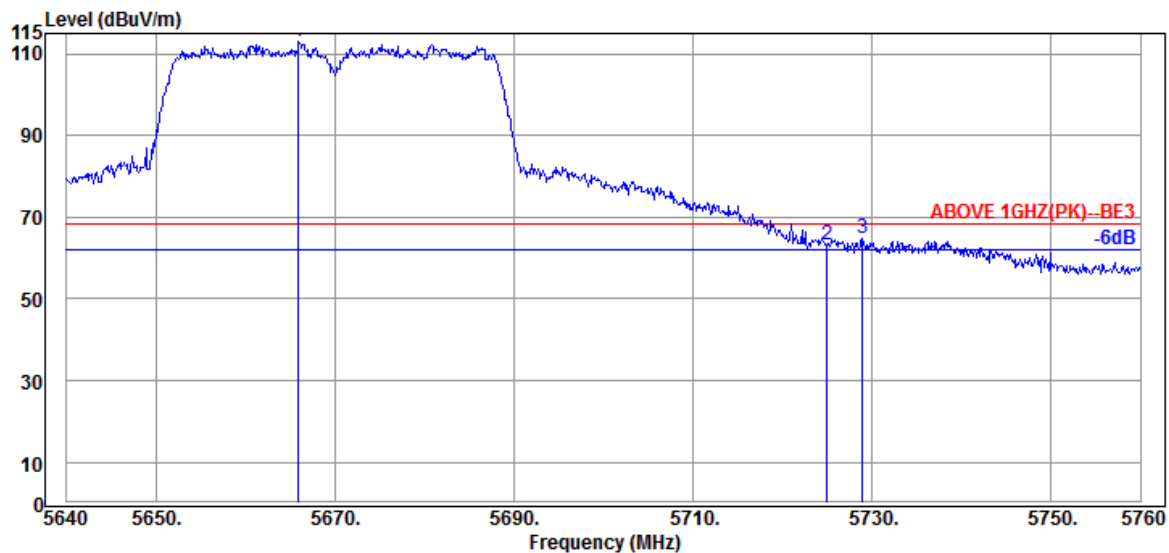
Fax: +886 2 26099303

Mode	802.11ac-VHT40	UNII Band	II-2C
	CDD	Frequency	TX 5670MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5665.80	34.99	13.83	60.54	109.36	68.20	---	Peak
5724.96	35.07	13.98	12.50	61.55	68.20	6.65	Peak
5725.68	35.07	13.98	14.19	63.24	68.20	4.96	Peak



Antenna at Vertical Polarization

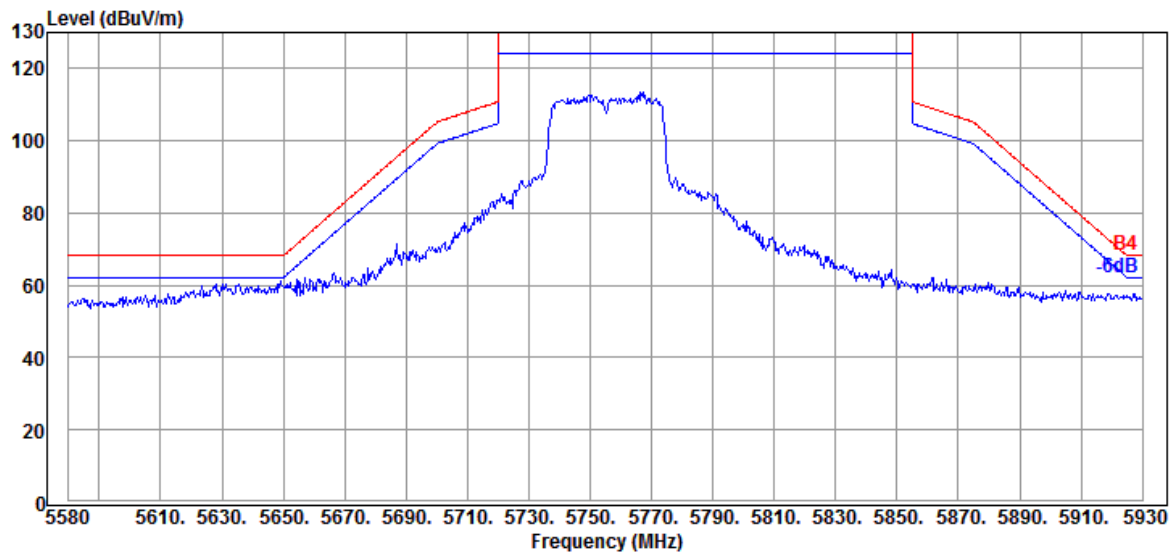
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5665.92	34.99	13.83	64.30	113.12	68.20	---	Peak
5724.96	35.07	13.98	14.22	63.27	68.20	4.93	Peak
5728.92	35.07	13.98	15.62	64.67	68.20	3.53	Peak

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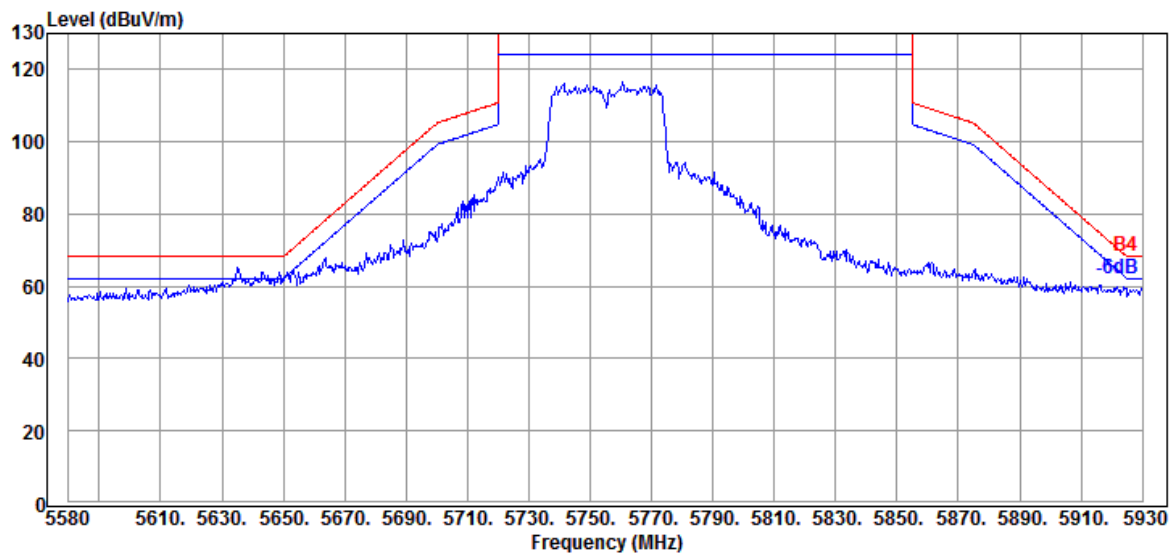
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Mode	802.11ac-VHT40	UNII Band	III
	CDD	Frequency	TX 5755MHz

Antenna at Horizontal Polarization



Antenna at Vertical Polarization

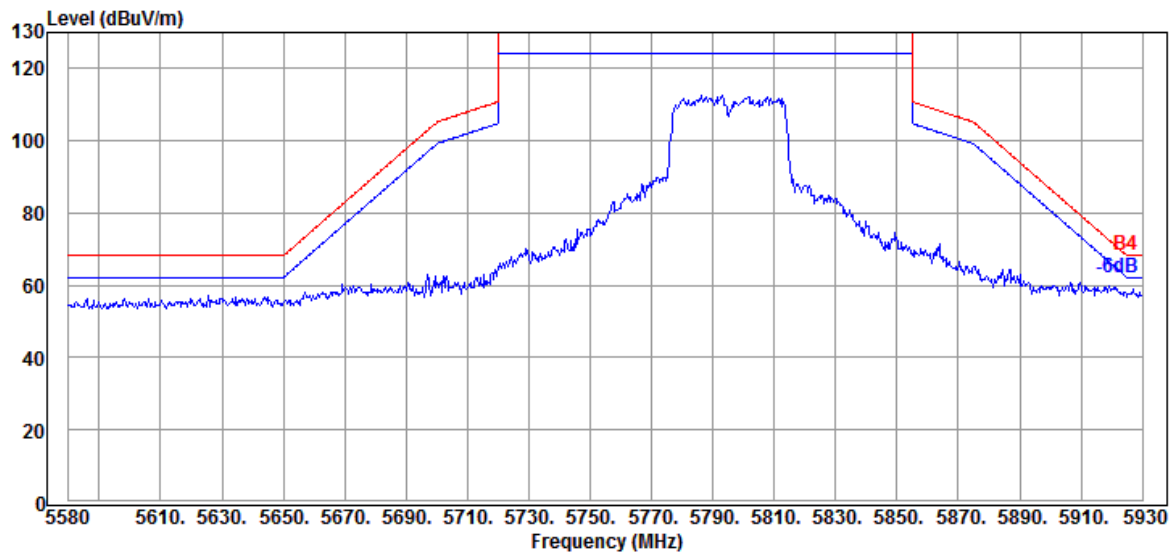


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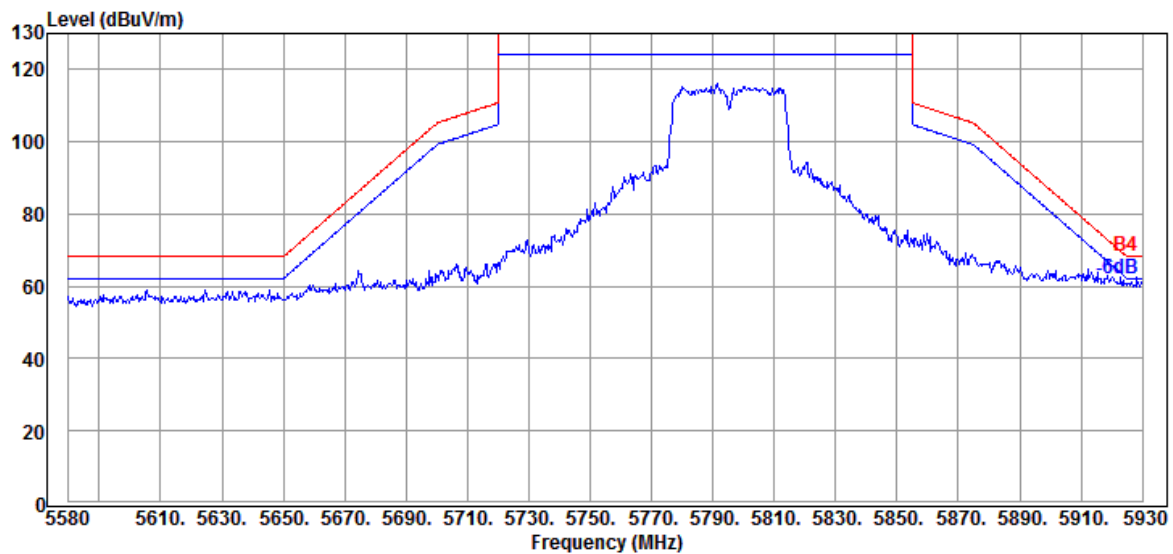
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Mode	802.11ac-VHT40	UNII Band	III
	CDD	Frequency	TX 5795MHz

Antenna at Horizontal Polarization



Antenna at Vertical Polarization



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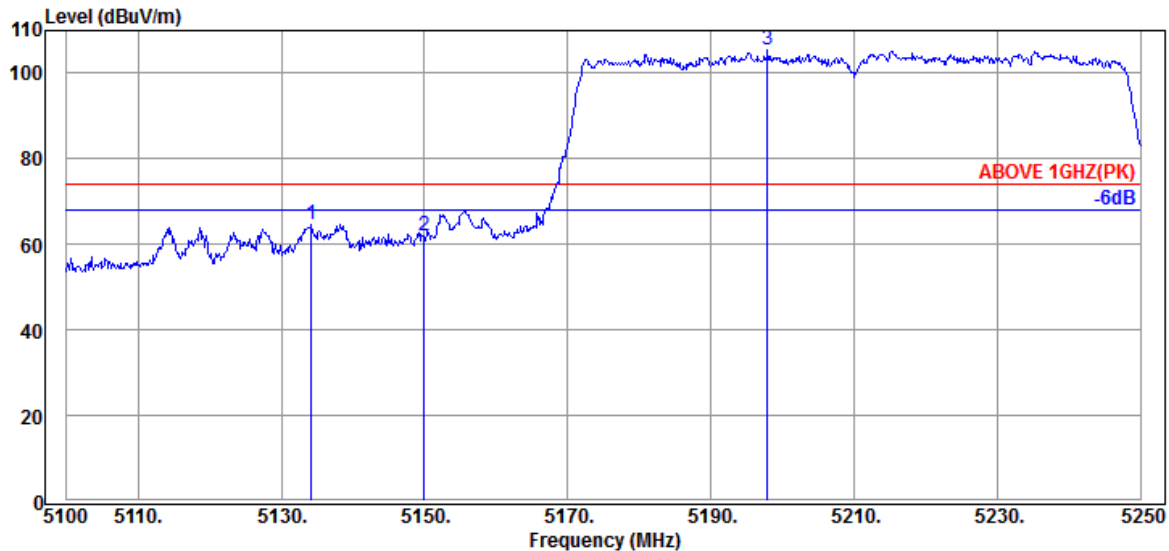
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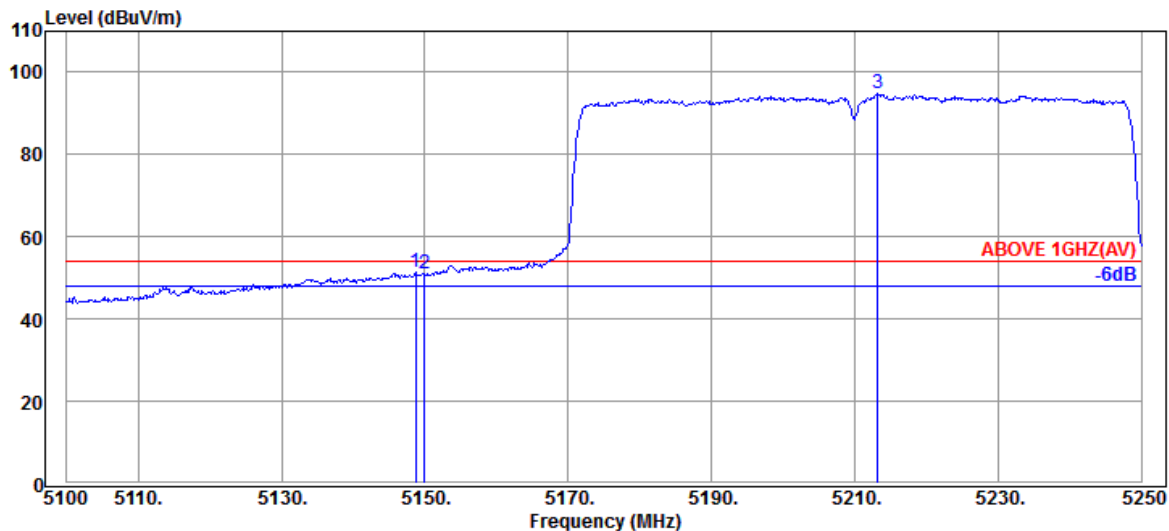
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Mode	802.11ac-VHT80	UNII Band	I
	CDD	Frequency	TX 5210MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5134.20	34.43	13.23	17.06	64.72	74.00	9.28	Peak
5149.95	34.45	13.22	14.29	61.96	74.00	12.04	Peak
5197.95	34.50	13.18	57.86	105.54	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5148.75	34.45	13.22	3.56	51.23	54.00	2.77	Average
5149.95	34.45	13.22	3.32	50.99	54.00	3.01	Average
5213.25	34.52	13.18	47.03	94.73	---	---	Average

Audix Technology Corp.

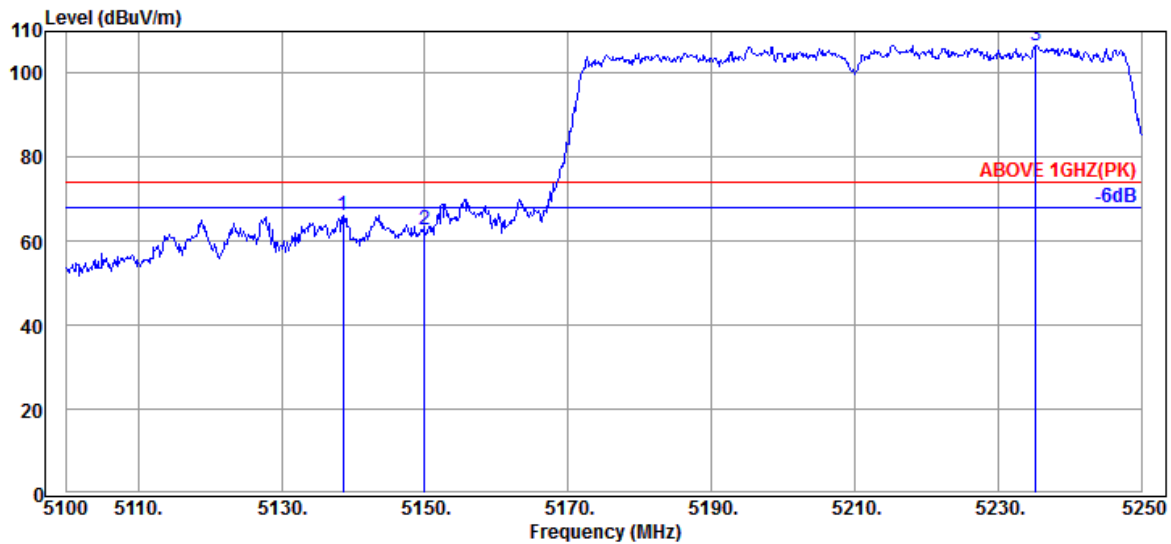
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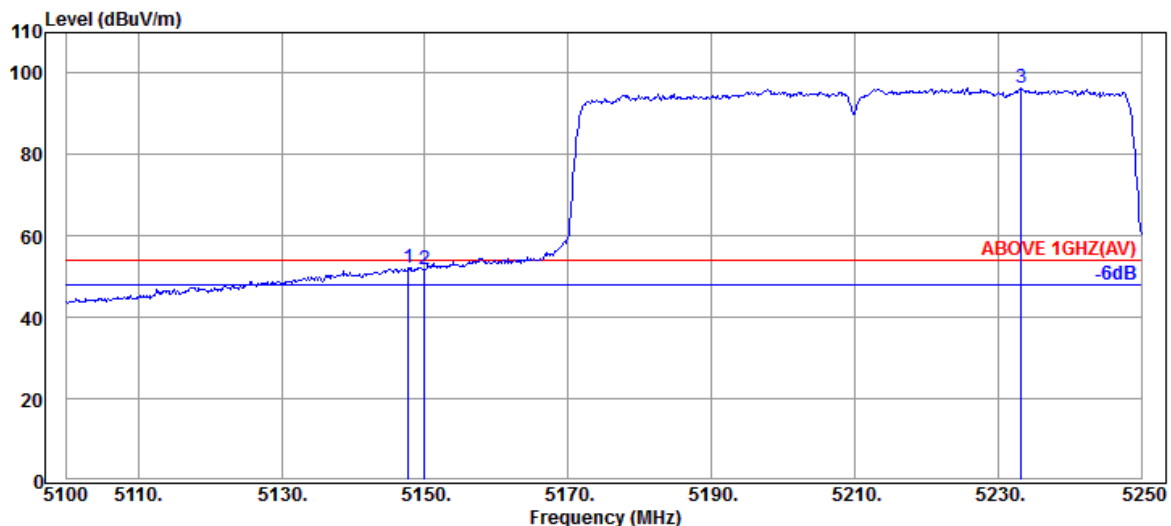
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Mode	802.11ac-VHT80	UNII Band	I
	CDD	Frequency	TX 5210MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5138.55	34.43	13.23	18.55	66.21	74.00	7.79	Peak
5149.95	34.45	13.22	15.10	62.77	74.00	11.23	Peak
5235.30	34.53	13.18	59.07	106.78	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5147.70	34.45	13.22	4.52	52.19	54.00	1.81	Average
5149.95	34.45	13.22	4.21	51.88	54.00	2.12	Average
5233.20	34.53	13.18	48.62	96.33	---	---	Average

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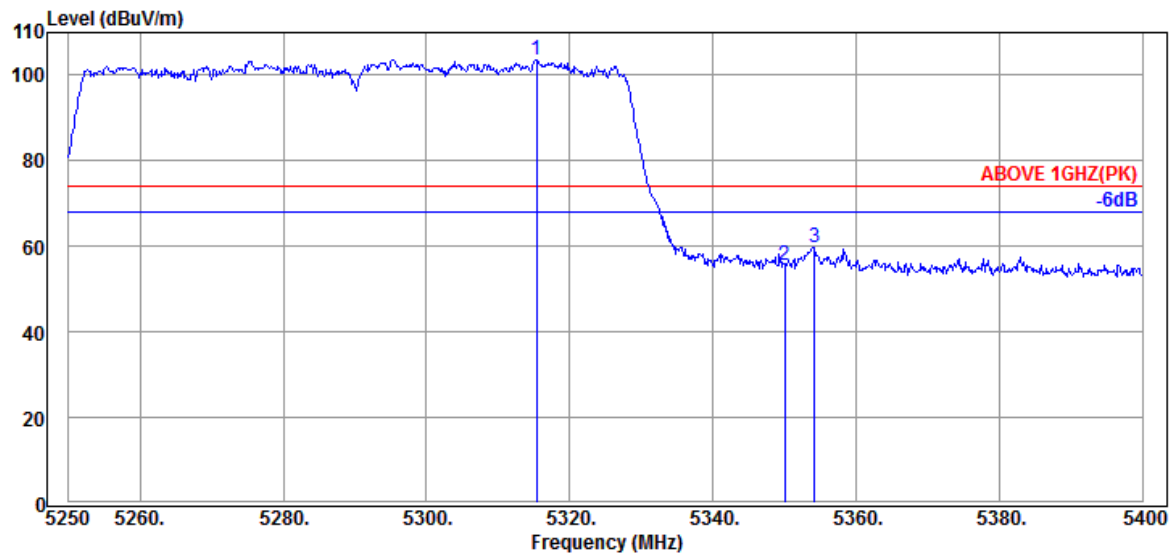
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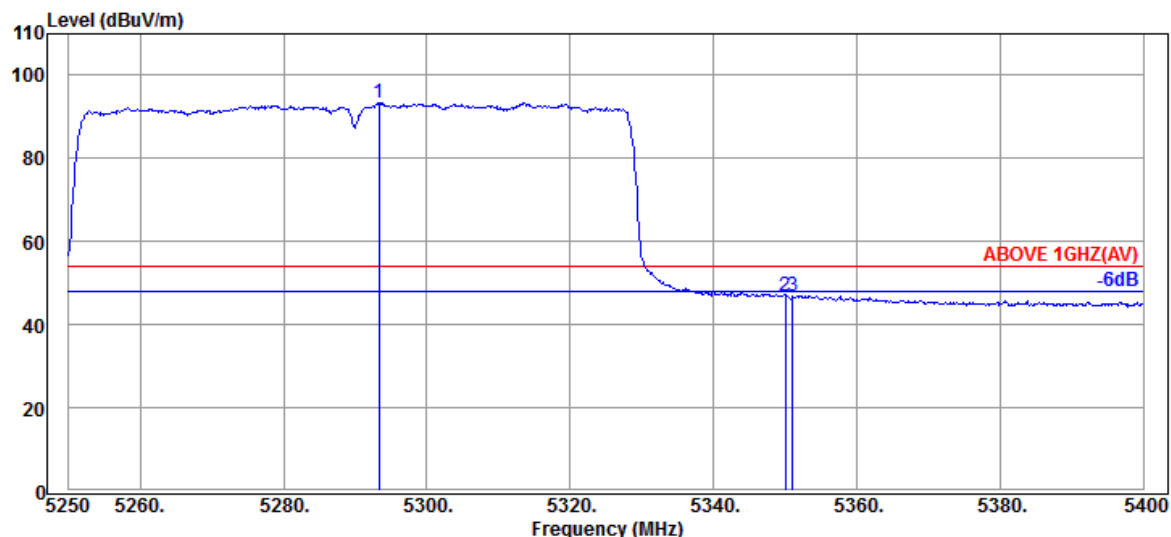
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Mode	802.11ac-VHT80	UNII Band	II-2A
	CDD	Frequency	TX 5290MHz



Antenna at Horizontal Polarization

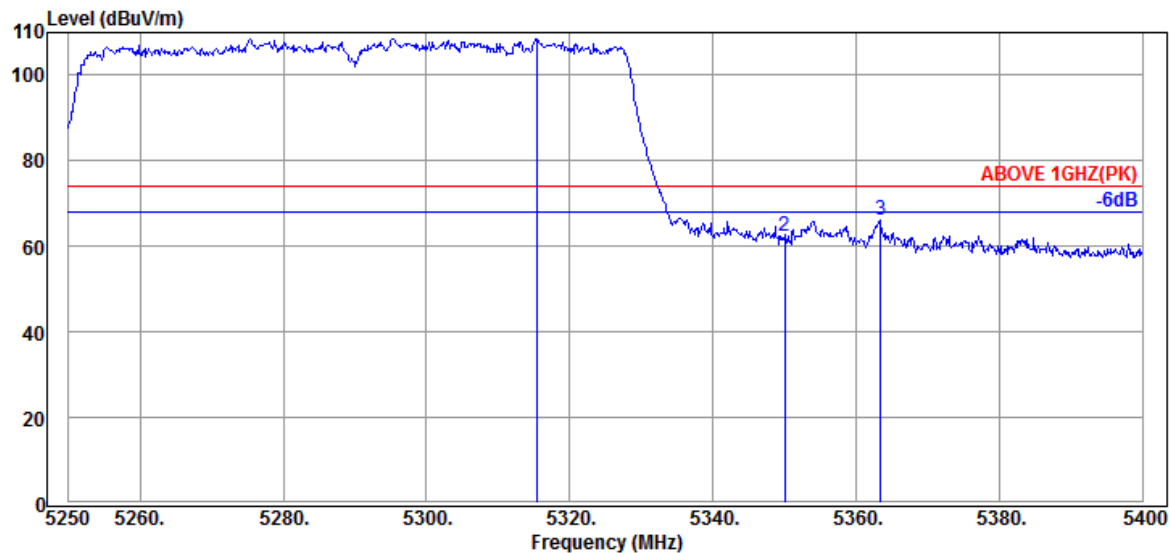
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5315.40	34.62	13.22	55.88	103.72	---	---	Peak
5350.05	34.65	13.31	7.55	55.51	74.00	18.49	Peak
5354.25	34.65	13.31	11.79	59.75	74.00	14.25	Peak



Antenna at Horizontal Polarization

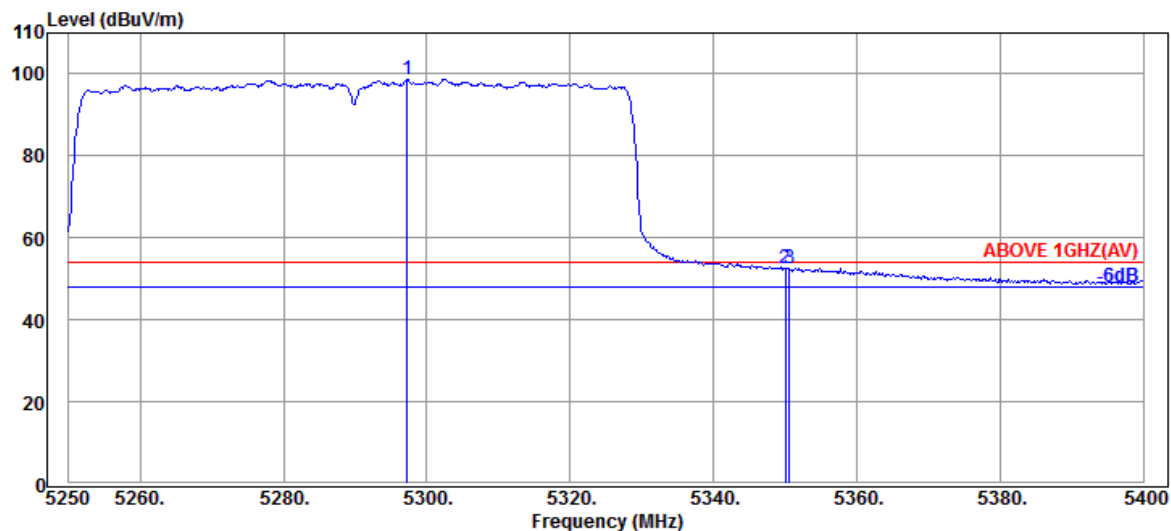
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5293.35	34.60	13.17	45.50	93.27	---	---	Average
5350.05	34.65	13.31	-1.00	46.96	54.00	7.04	Average
5351.10	34.65	13.31	-1.01	46.95	54.00	7.05	Average

Mode	802.11ac-VHT80	UNII Band	II-2A
	CDD	Frequency	TX 5290MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5315.40	34.62	13.22	60.69	108.53	---	---	Peak
5350.05	34.65	13.31	14.33	62.29	74.00	11.71	Peak
5363.40	34.67	13.35	17.98	66.00	74.00	8.00	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5297.25	34.60	13.17	50.90	98.67	---	---	Average
5350.05	34.65	13.31	4.70	52.66	54.00	1.34	Average
5350.65	34.65	13.31	4.62	52.58	54.00	1.42	Average

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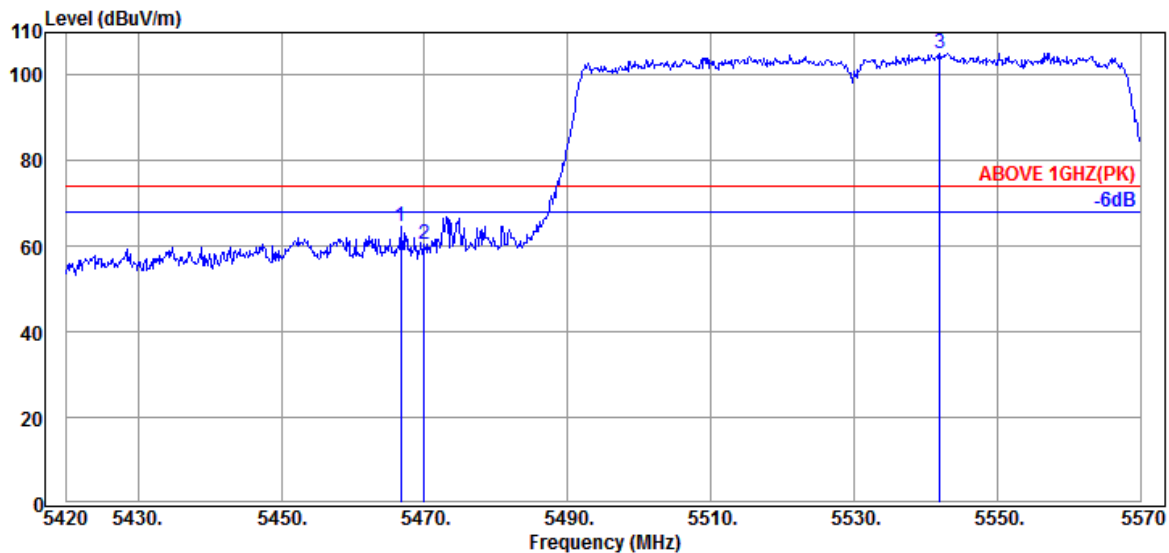
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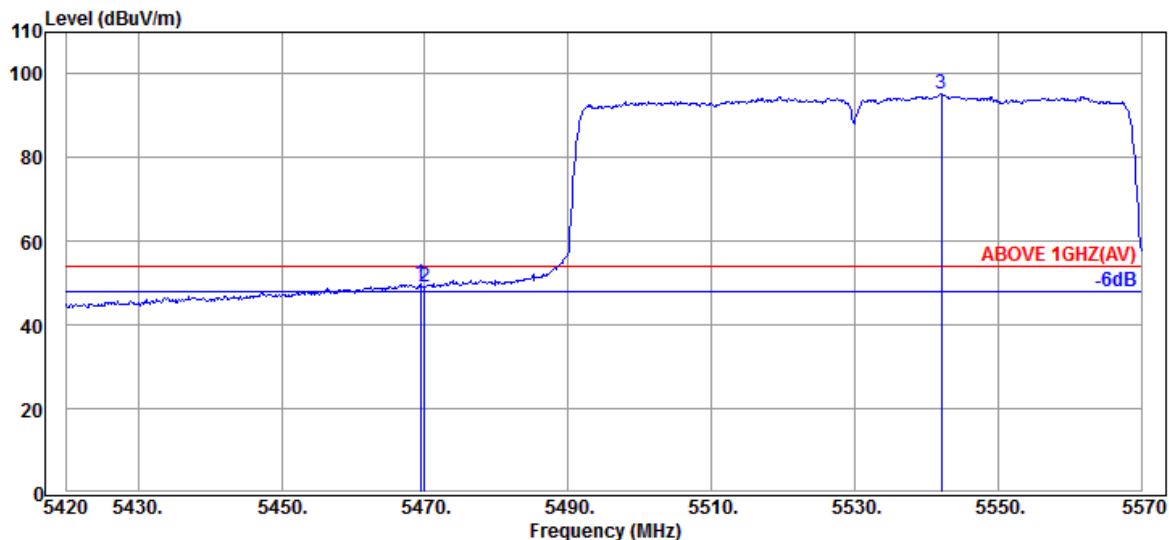
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Mode	802.11ac-VHT80	UNII Band	II-2C
	CDD	Frequency	TX 5530MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5466.65	34.77	13.51	16.30	64.58	74.00	9.42	Peak
5469.95	34.77	13.51	12.20	60.48	74.00	13.52	Peak
5541.95	34.84	13.61	56.61	105.06	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5469.35	34.77	13.51	1.61	49.89	54.00	4.11	Average
5469.95	34.77	13.51	0.72	49.00	54.00	5.00	Average
5542.10	34.84	13.61	46.84	95.29	---	---	Average

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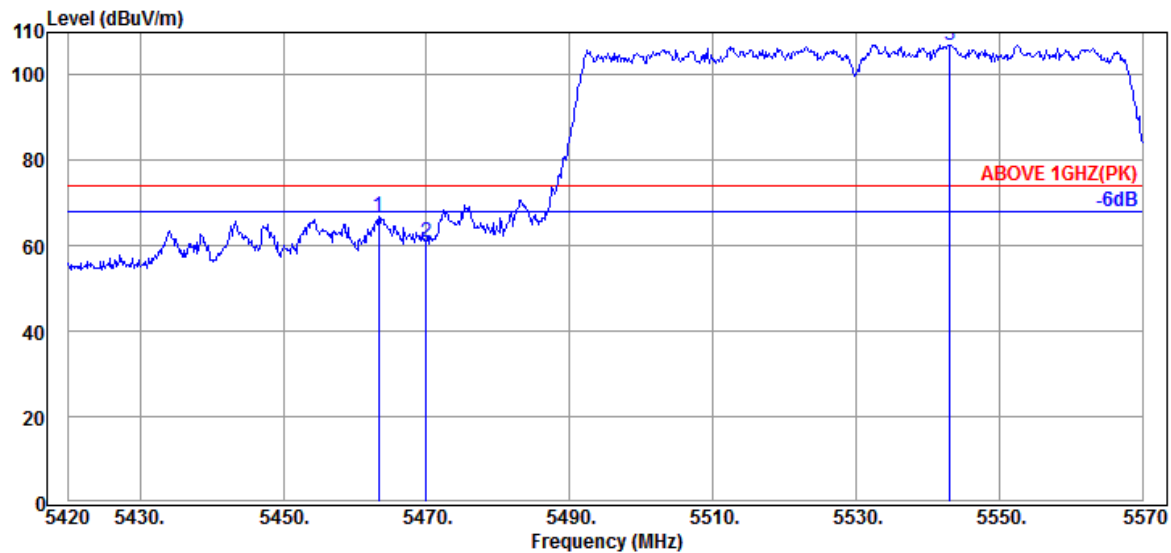
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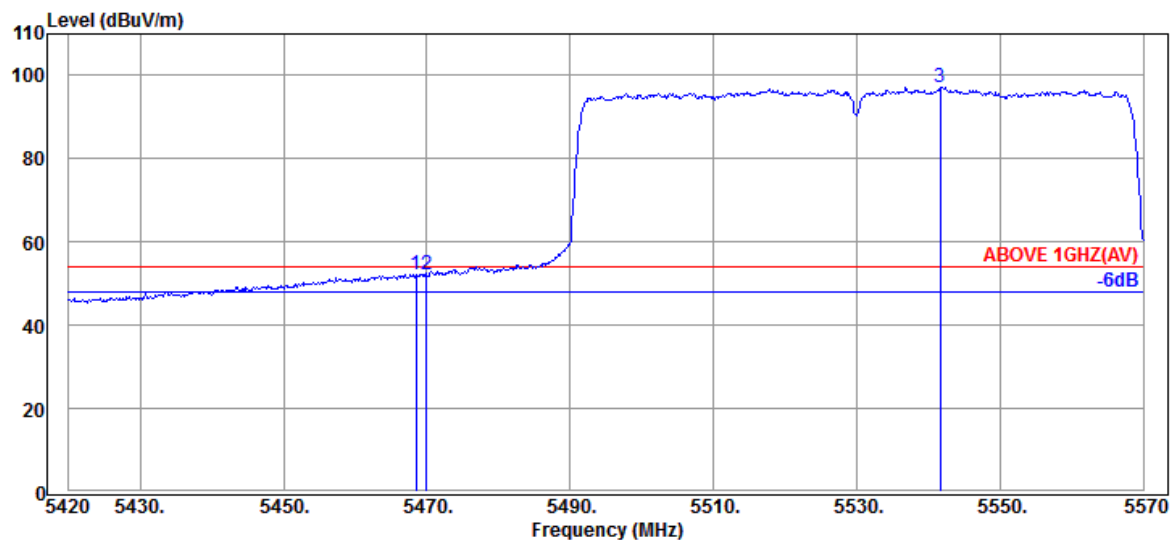
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Mode	802.11ac-VHT80	UNII Band	II-2C
	CDD	Frequency	TX 5530MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5463.35	34.77	13.51	18.81	67.09	74.00	6.91	Peak
5469.95	34.77	13.51	12.59	60.87	74.00	13.13	Peak
5543.15	34.84	13.61	58.69	107.14	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5468.45	34.77	13.51	4.04	52.32	54.00	1.68	Average
5469.95	34.77	13.51	4.02	52.30	54.00	1.70	Average
5541.65	34.84	13.61	48.67	97.12	---	---	Average

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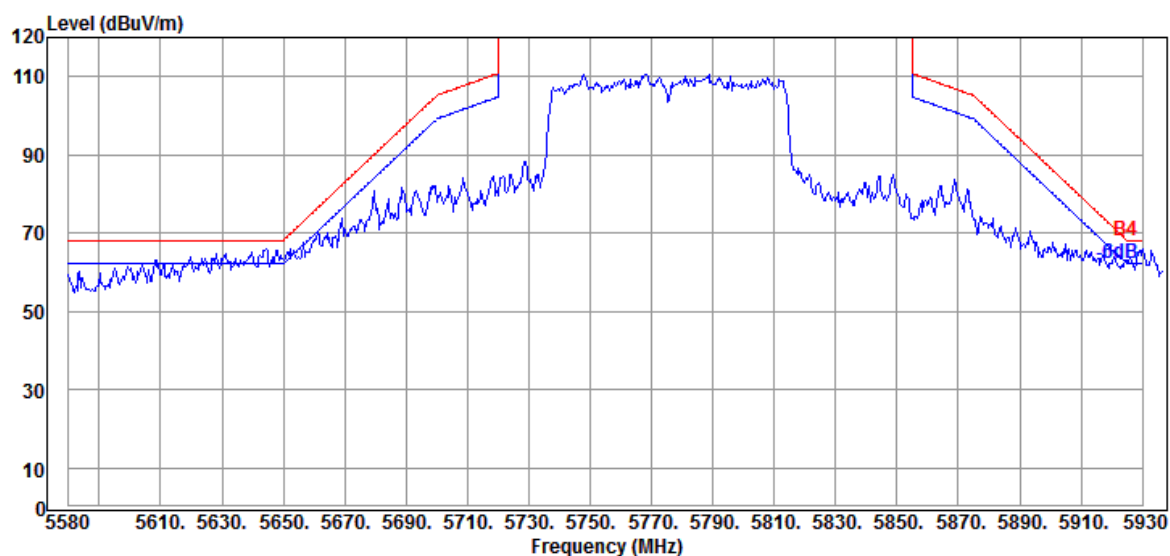
New Taipei City 244, Taiwan

Tel: +886 2 26099301

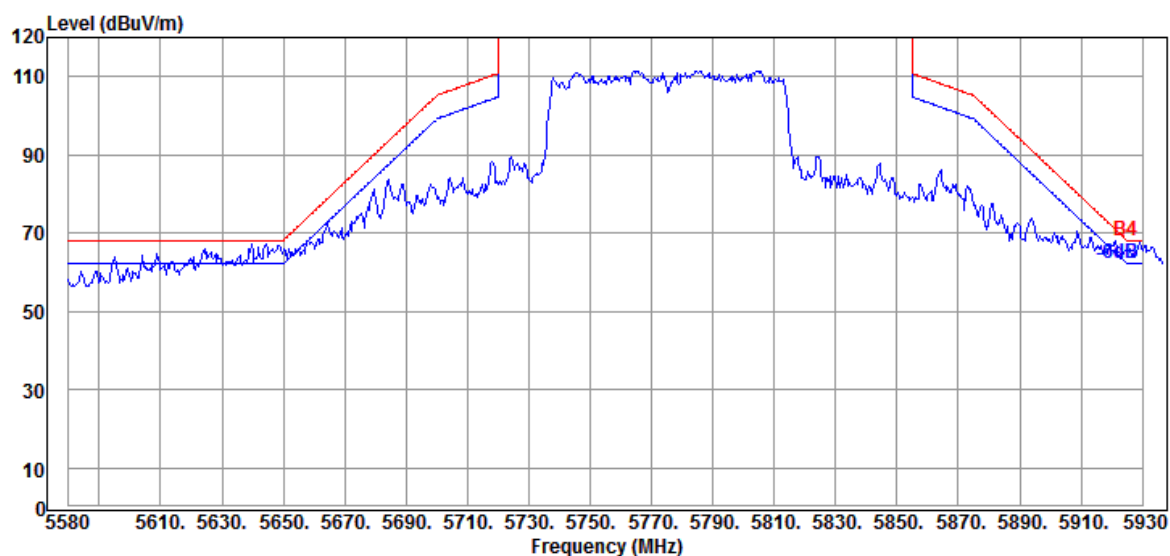
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Mode	802.11ac-VHT80	UNII Band	III
	CDD	Frequency	TX 5775MHz

Antenna at Horizontal Polarization



Antenna at Vertical Polarization



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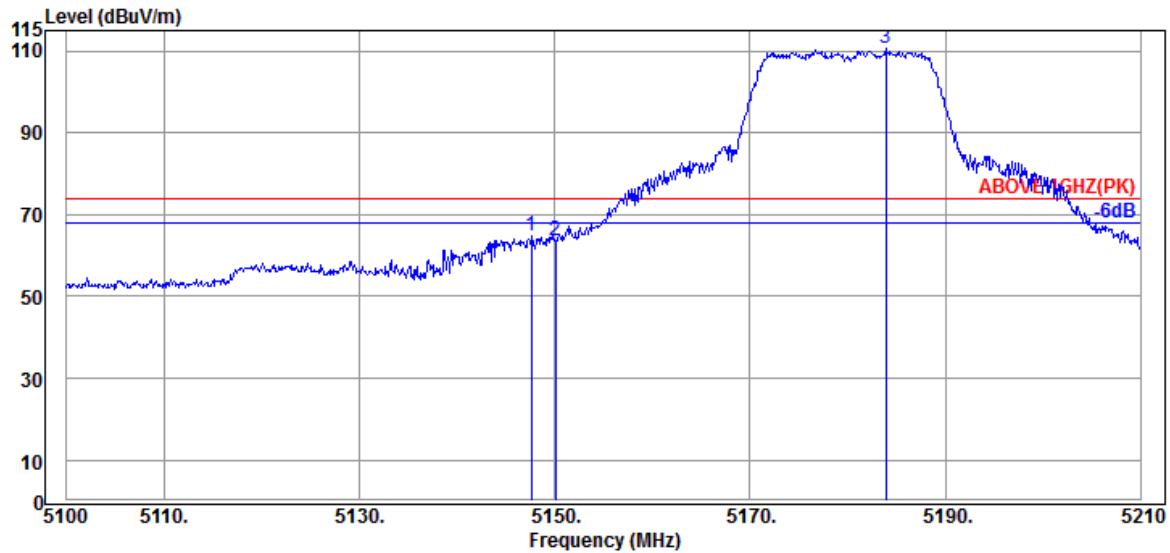
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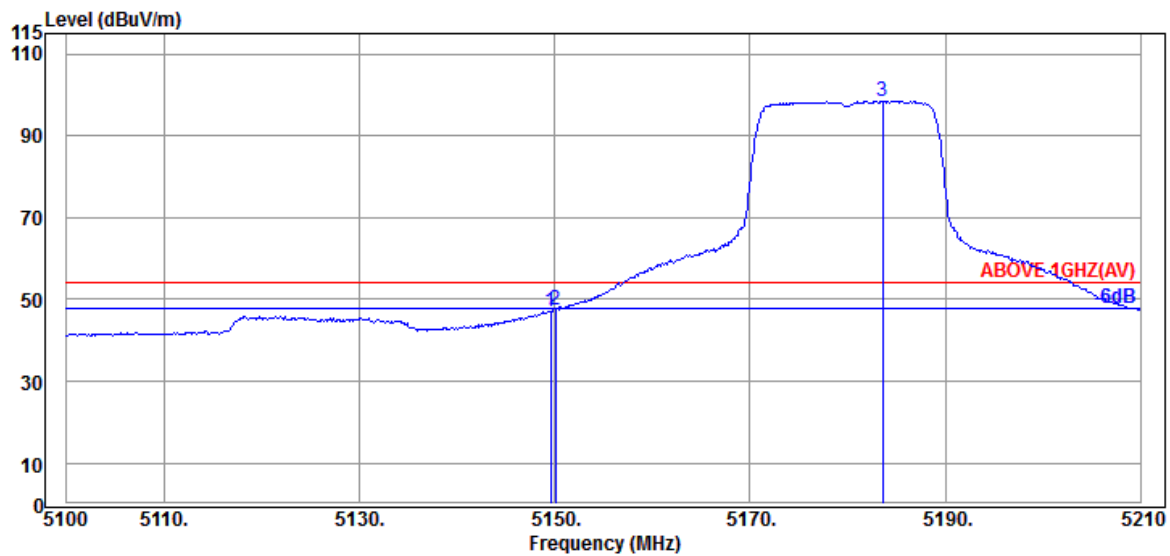
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Mode	802.11n-HT20	UNII Band	I
	SDM	Frequency	TX 5180MHz



Antenna at Horizontal Polarization

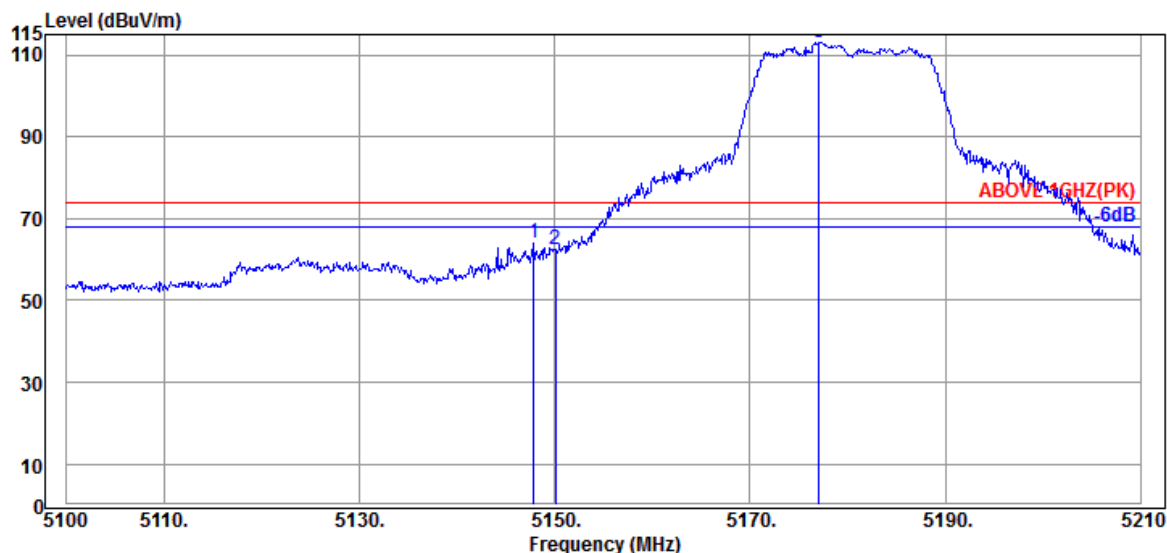
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5147.63	34.46	9.83	20.38	64.67	74.00	9.33	Peak
5150.05	34.46	9.83	19.52	63.81	74.00	10.19	Peak
5183.93	34.47	9.88	66.21	110.56	---	---	Peak



Antenna at Horizontal Polarization

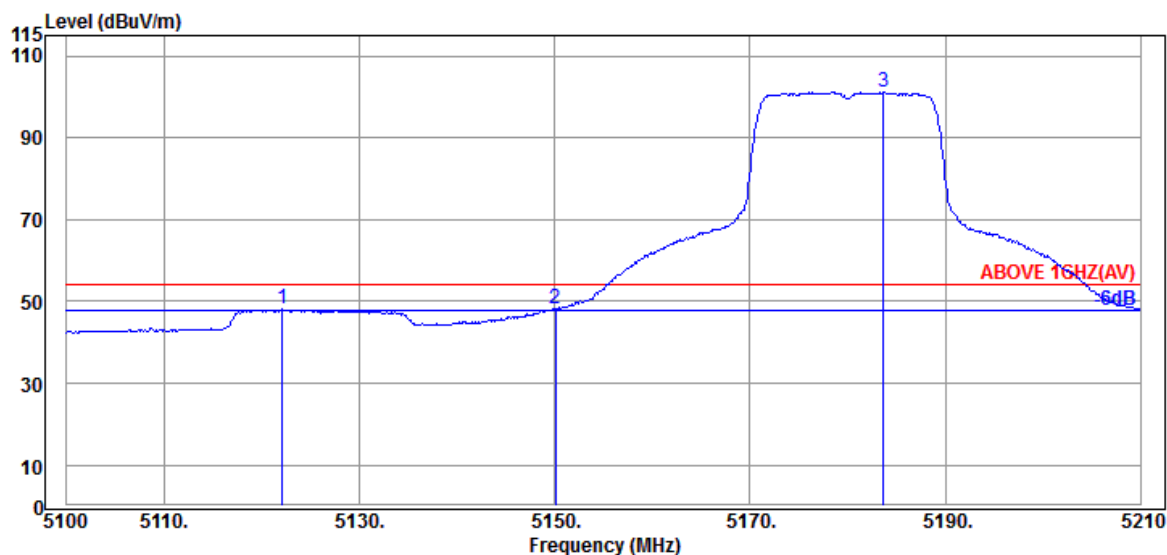
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.61	34.46	9.83	2.93	47.22	54.00	6.78	Average
5150.05	34.46	9.83	3.29	47.58	54.00	6.42	Average
5183.60	34.47	9.88	54.20	98.55	---	---	Average

Mode	802.11n-HT20	UNII Band	I
	SDM	Frequency	TX 5180MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5147.85	34.46	9.83	19.56	63.85	74.00	10.15	Peak
5150.05	34.46	9.83	18.02	62.31	74.00	11.69	Peak
5177.11	34.47	9.88	68.70	113.05	---	---	Peak



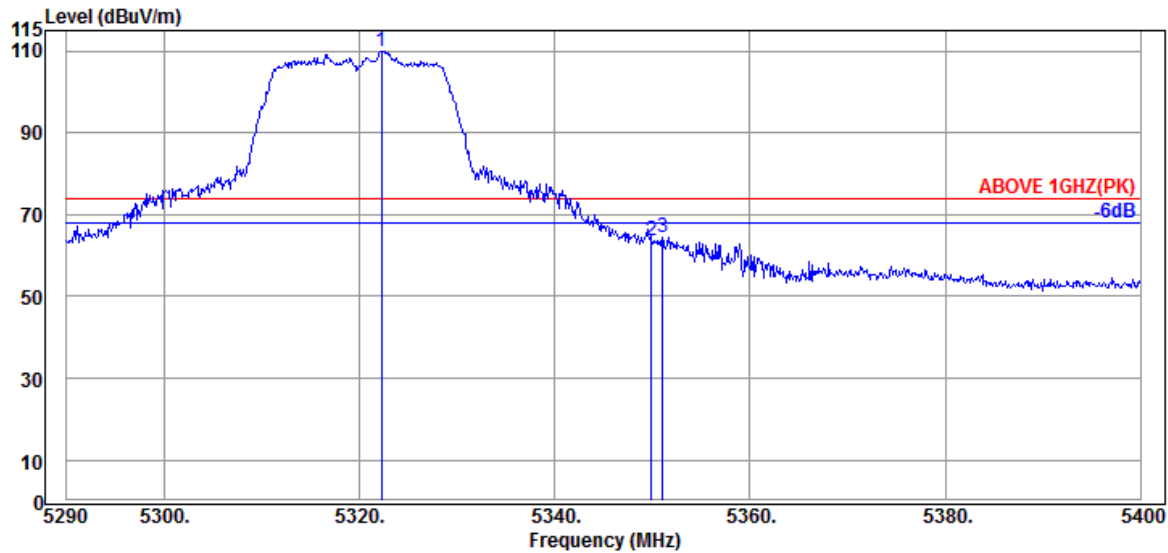
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5122.11	34.45	9.78	3.89	48.12	54.00	5.88	Average
5150.05	34.46	9.83	3.77	48.06	54.00	5.94	Average
5183.71	34.47	9.88	56.91	101.26	---	---	Average

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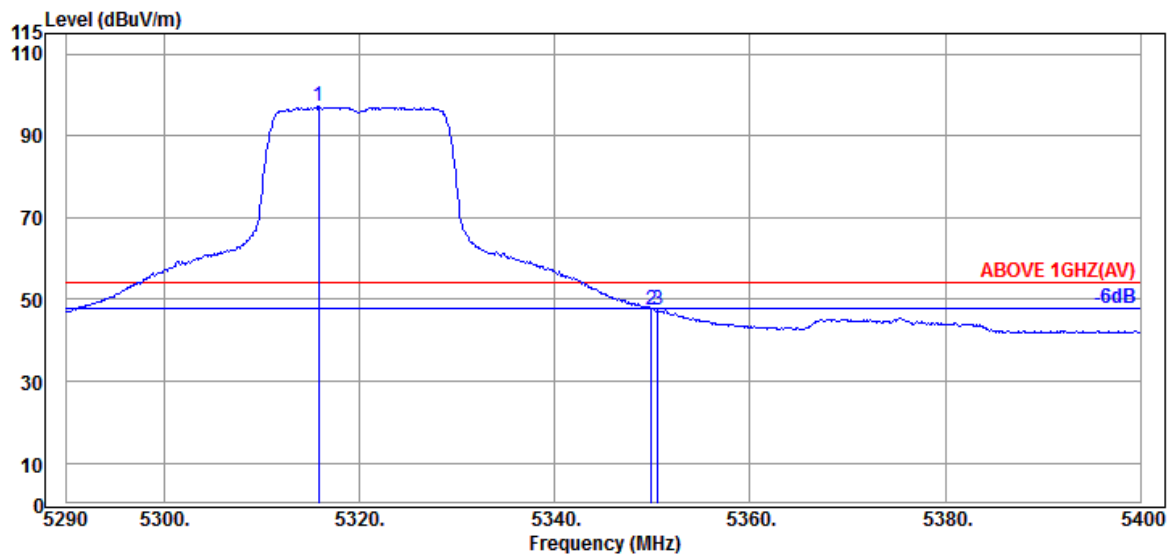
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Fax: +886 2 26099303

Mode	802.11n-HT20	UNII Band	II-2A
	SDM	Frequency	TX 5320MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5322.23	34.53	10.08	65.41	110.02	---	---	Peak
5349.95	34.54	10.13	18.89	63.56	74.00	10.44	Peak
5351.05	34.54	10.13	19.79	64.46	74.00	9.54	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5315.85	34.53	10.08	52.47	97.08	---	---	Average
5349.95	34.54	10.13	2.90	47.57	54.00	6.43	Average
5350.61	34.54	10.13	2.59	47.26	54.00	6.74	Average

Audix Technology Corp.

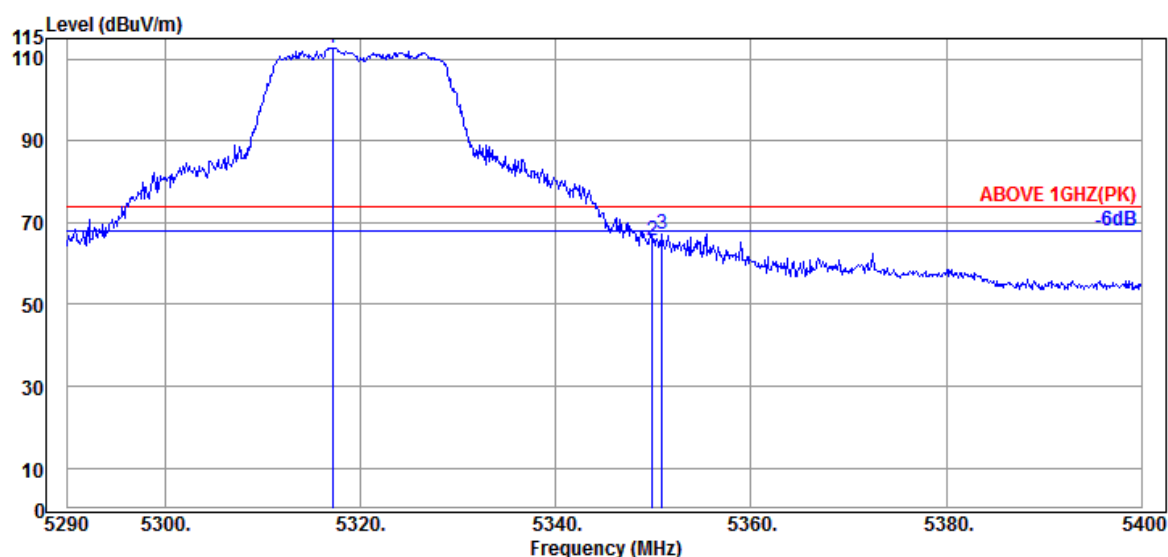
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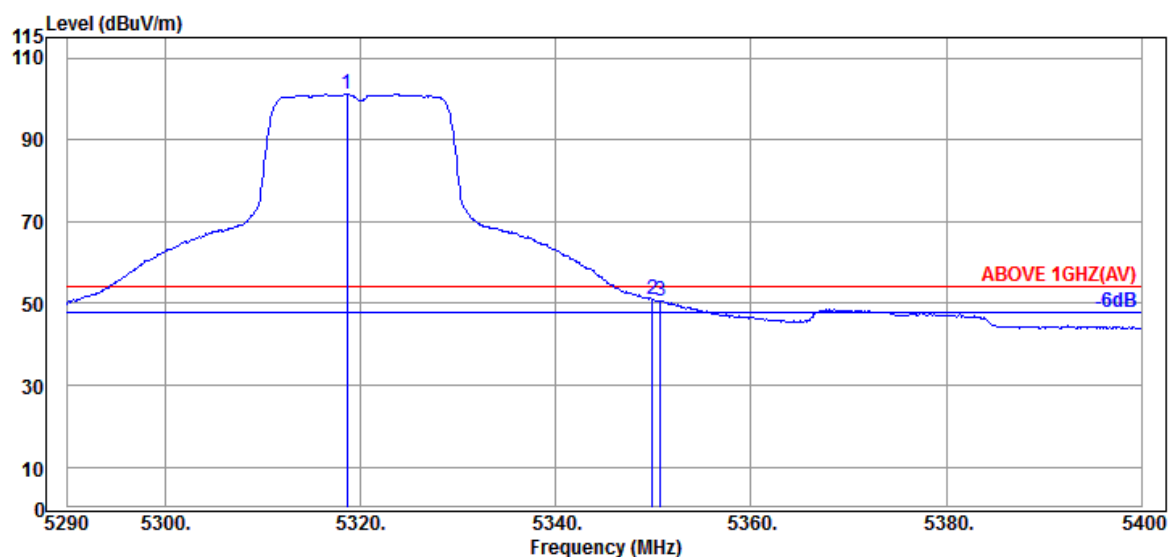
Fax: +886 2 26099303

Mode	802.11n-HT20	UNII Band	II-2A
	SDM	Frequency	TX 5320MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5317.17	34.53	10.08	68.16	112.77	---	---	Peak
5349.95	34.54	10.13	20.89	65.56	74.00	8.44	Peak
5350.94	34.54	10.13	22.42	67.09	74.00	6.91	Peak



Antenna at Vertical Polarization

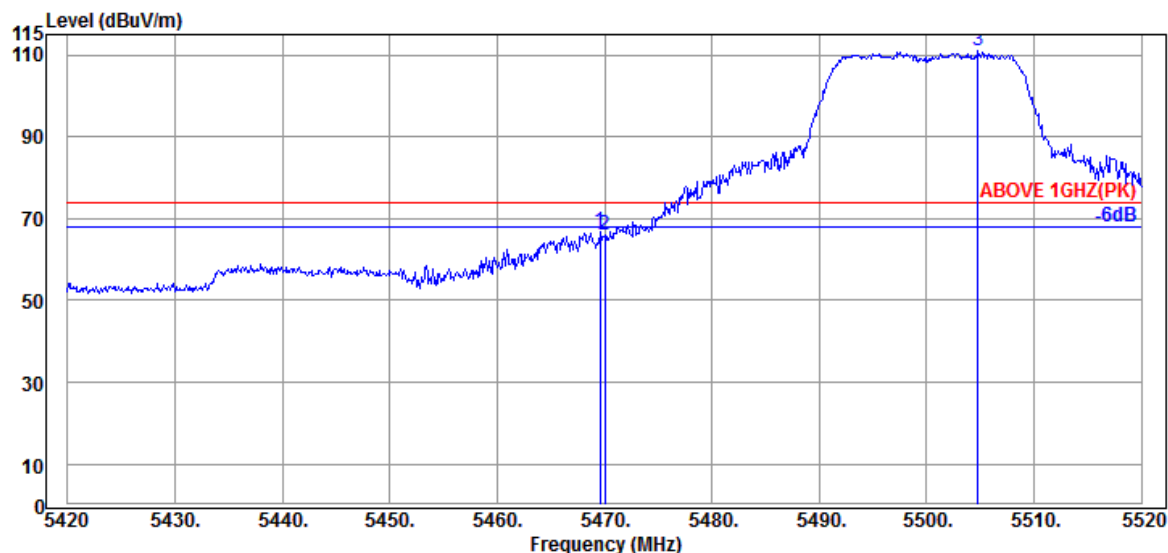
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5318.60	34.53	10.08	56.58	101.19	54.00	---	Average
5349.95	34.54	10.13	6.49	51.16	54.00	2.84	Average
5350.72	34.54	10.13	5.94	50.61	54.00	3.39	Average

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Report Number: EM-F180128

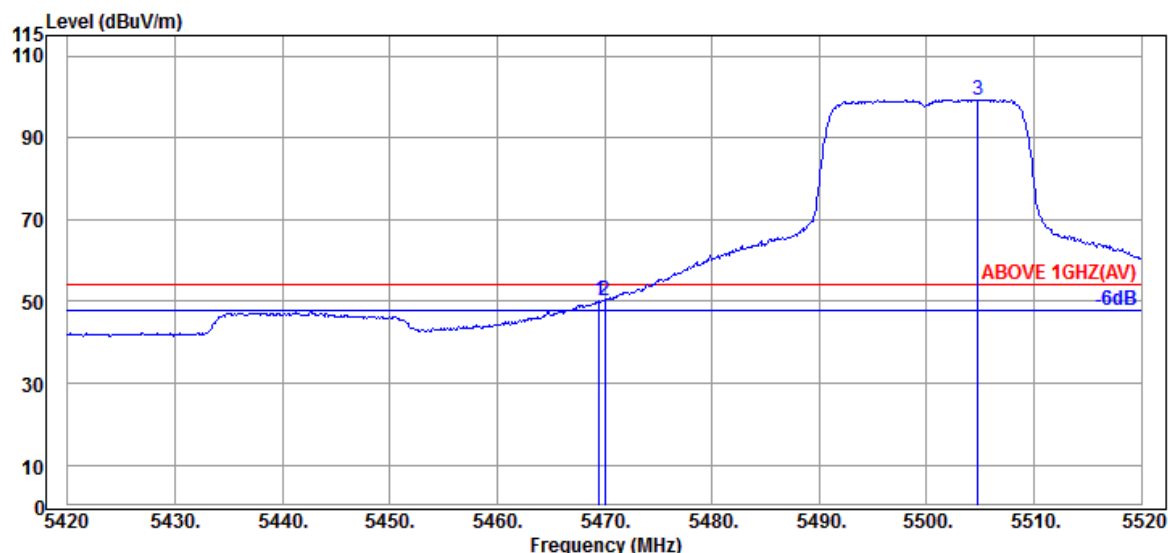
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Mode	802.11n-HT20	UNII Band	II-2C
	SDM	Frequency	TX 5500MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5469.60	34.59	10.30	21.95	66.84	74.00	7.16	Peak
5470.00	34.59	10.30	20.98	65.87	74.00	8.13	Peak
5504.80	34.60	10.35	66.08	111.03	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5469.50	34.59	10.30	5.38	50.27	54.00	3.73	Average
5470.00	34.59	10.30	5.35	50.24	54.00	3.76	Average
5504.80	34.60	10.35	54.41	99.36	---	---	Average

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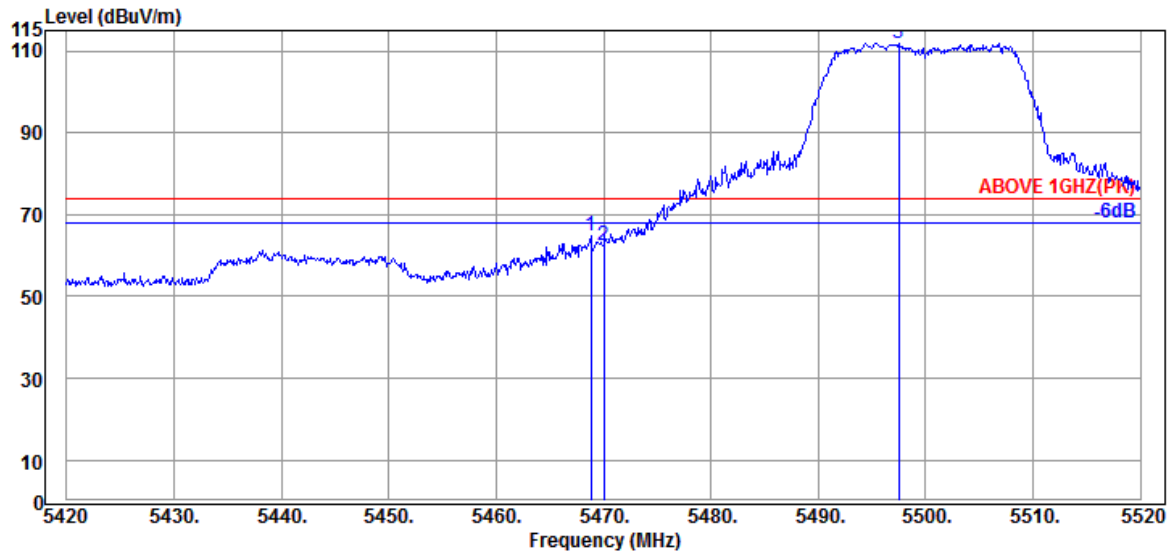
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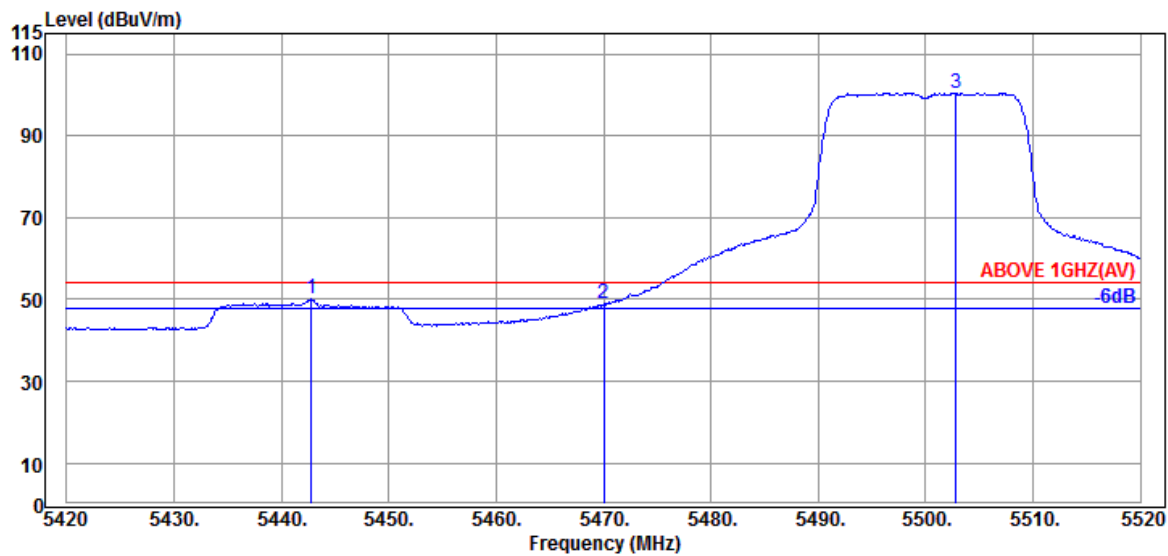
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Mode	802.11n-HT20	UNII Band	II-2C
	SDM	Frequency	TX 5500MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5468.80	34.59	10.30	20.05	64.94	74.00	9.06	Peak
5470.00	34.59	10.30	17.55	62.44	74.00	11.56	Peak
5497.50	34.60	10.35	67.03	111.98	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5442.80	34.57	10.25	5.32	50.14	54.00	3.86	Average
5470.00	34.59	10.30	4.09	48.98	54.00	5.02	Average
5502.80	34.60	10.35	55.58	100.53	---	---	Average

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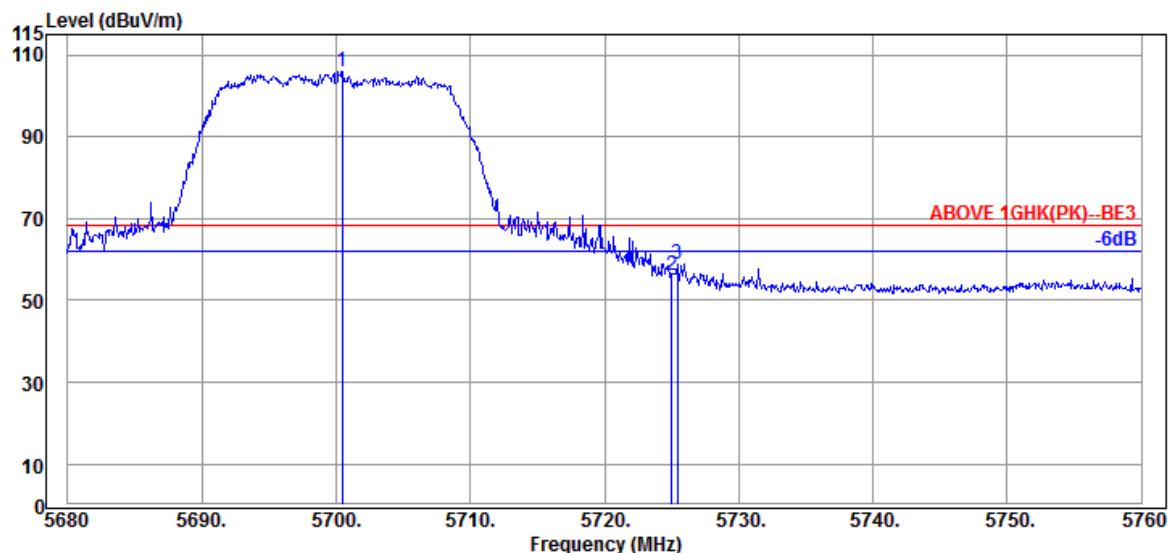
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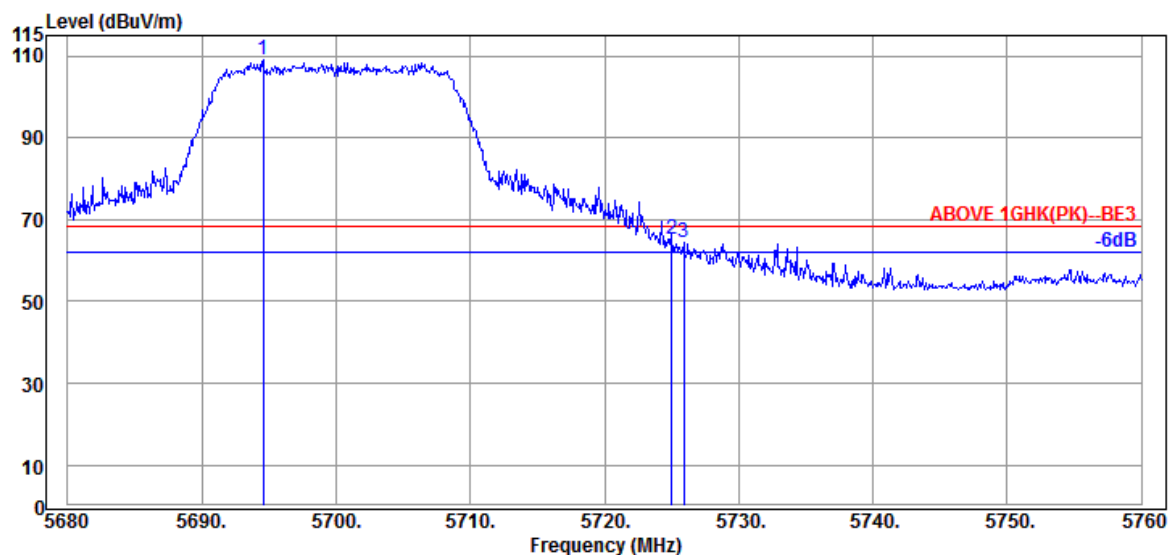
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Mode	802.11n-HT20	UNII Band	II-2C
	SDM	Frequency	TX 5700MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5700.48	34.83	10.50	60.65	105.98	68.20	---	Peak
5725.04	34.87	10.52	10.90	56.29	68.20	11.91	Peak
5725.44	34.87	10.52	13.63	59.02	68.20	9.18	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5694.56	34.83	10.50	63.64	108.97	68.20	---	Peak
5725.04	34.87	10.52	19.96	65.35	68.20	2.85	Peak
5725.92	34.87	10.52	18.91	64.30	68.20	3.90	Peak

File Number: C1M1803257

Report Number: EM-F180128

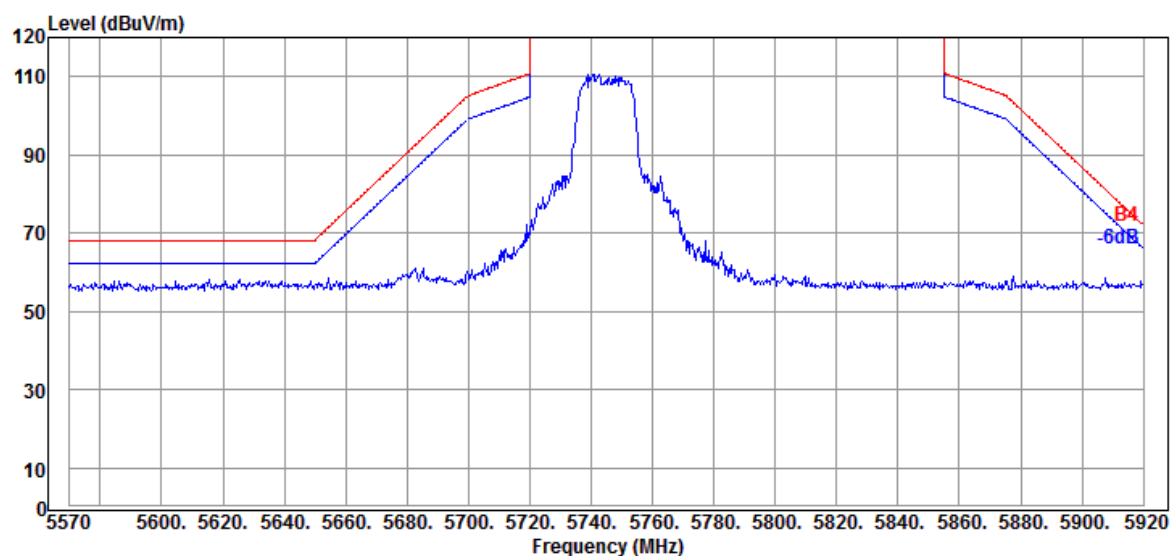
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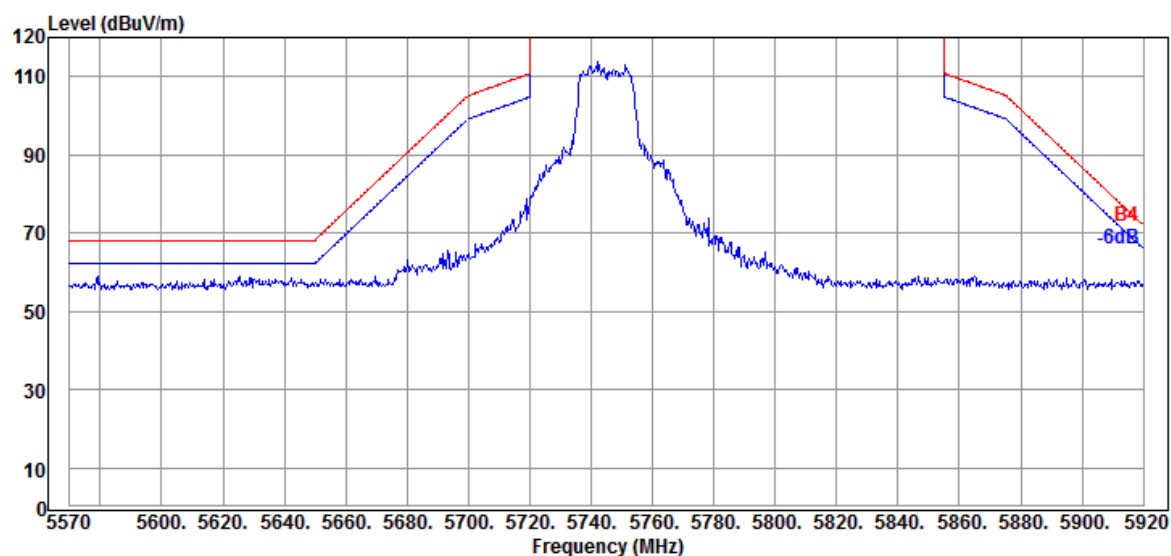
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Mode	802.11n-HT20	UNII Band	III
	SDM	Frequency	TX 5745MHz

Antenna at Horizontal Polarization



Antenna at Vertical Polarization

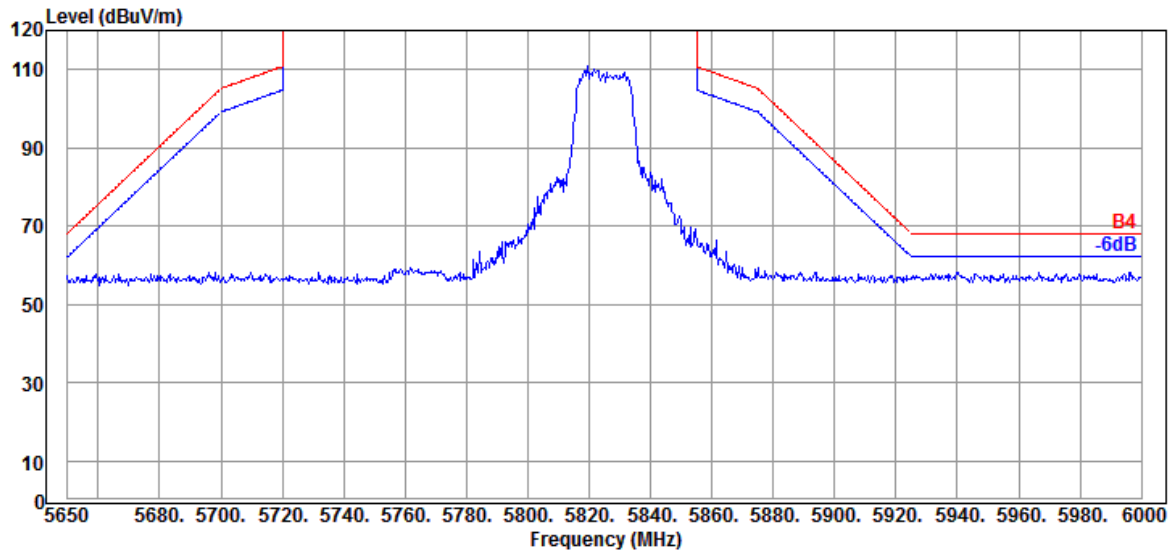


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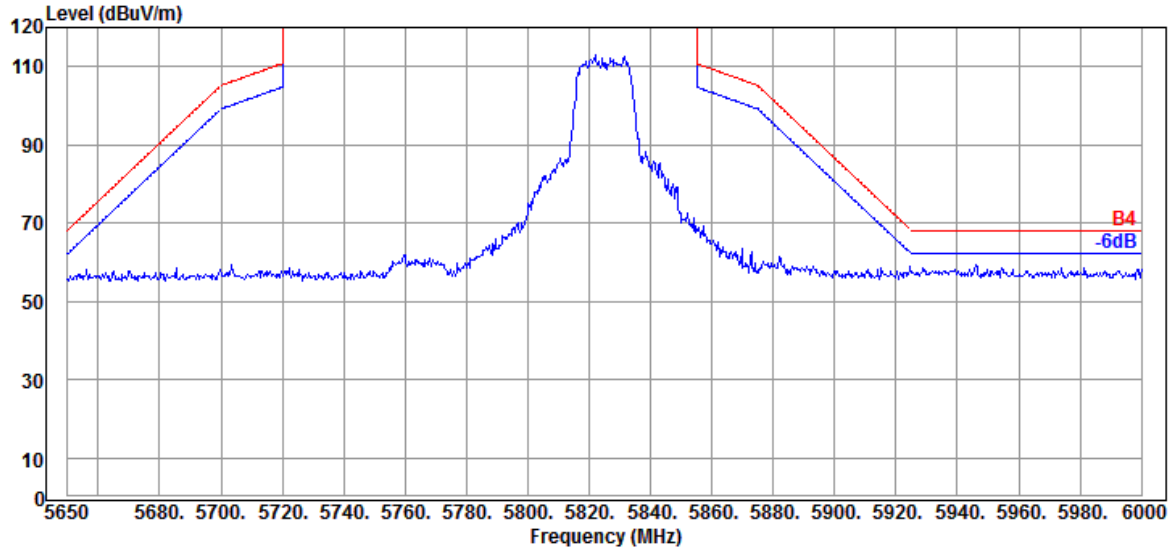
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Mode	802.11n-HT20	UNII Band	III
	SDM	Frequency	TX 5825MHz

Antenna at Horizontal Polarization



Antenna at Vertical Polarization



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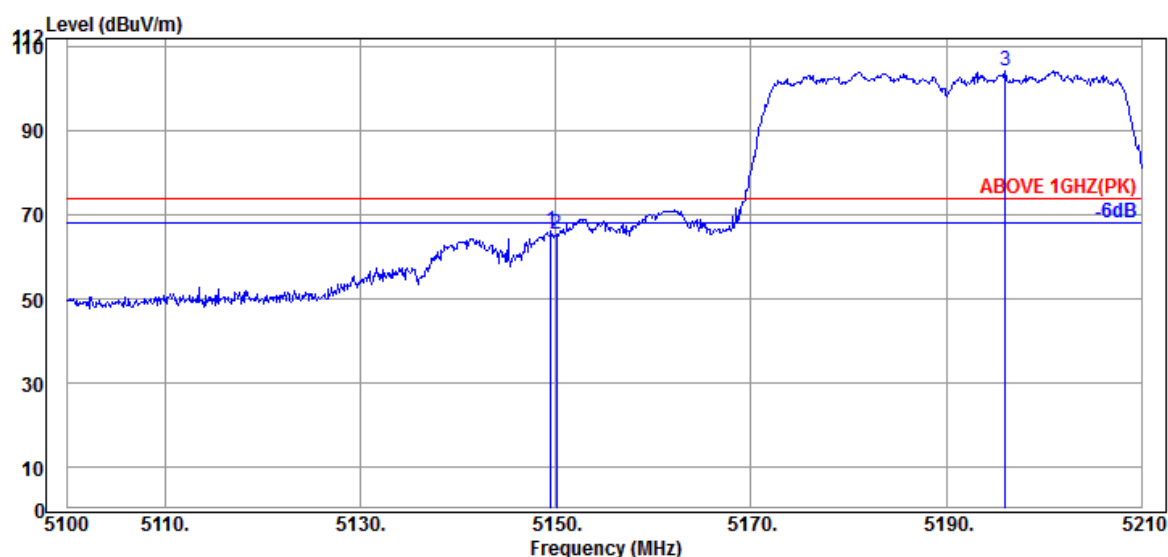
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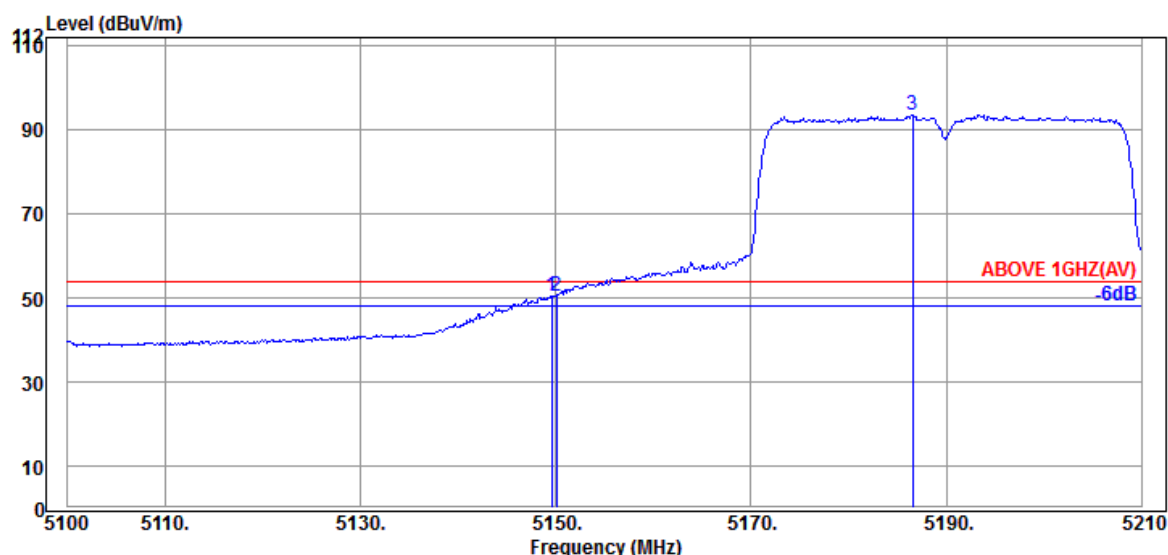
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Mode	802.11ac-VHT40	UNII Band	I
	SDM	Frequency	TX 5190MHz



Antenna at Horizontal Polarization

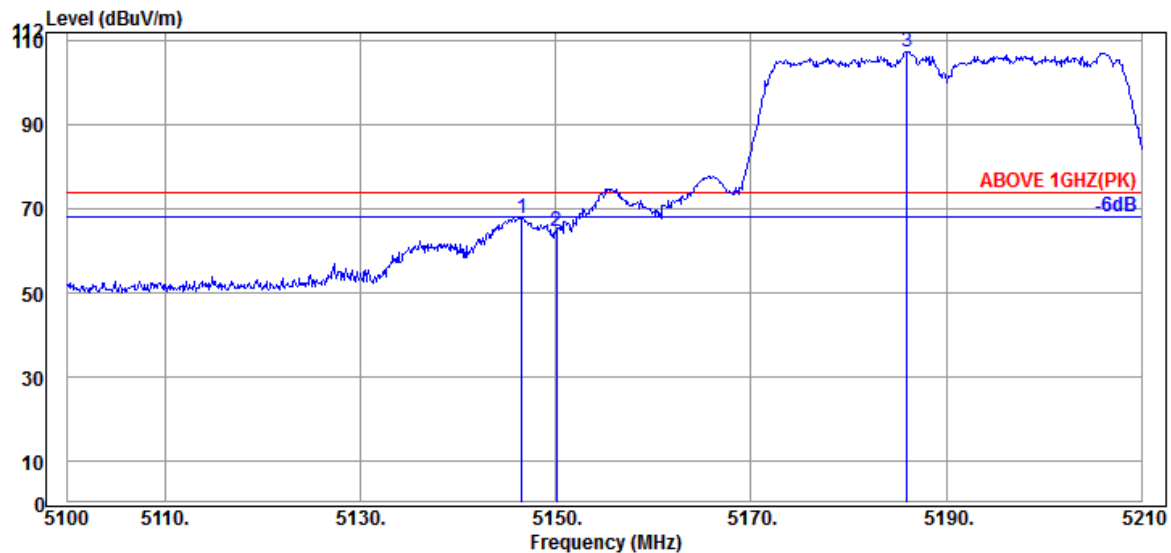
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5149.50	34.46	9.83	21.80	66.09	74.00	7.91	Peak
5150.05	34.46	9.83	21.04	65.33	74.00	8.67	Peak
5196.03	34.48	9.91	59.98	104.37	---	---	Peak



Antenna at Horizontal Polarization

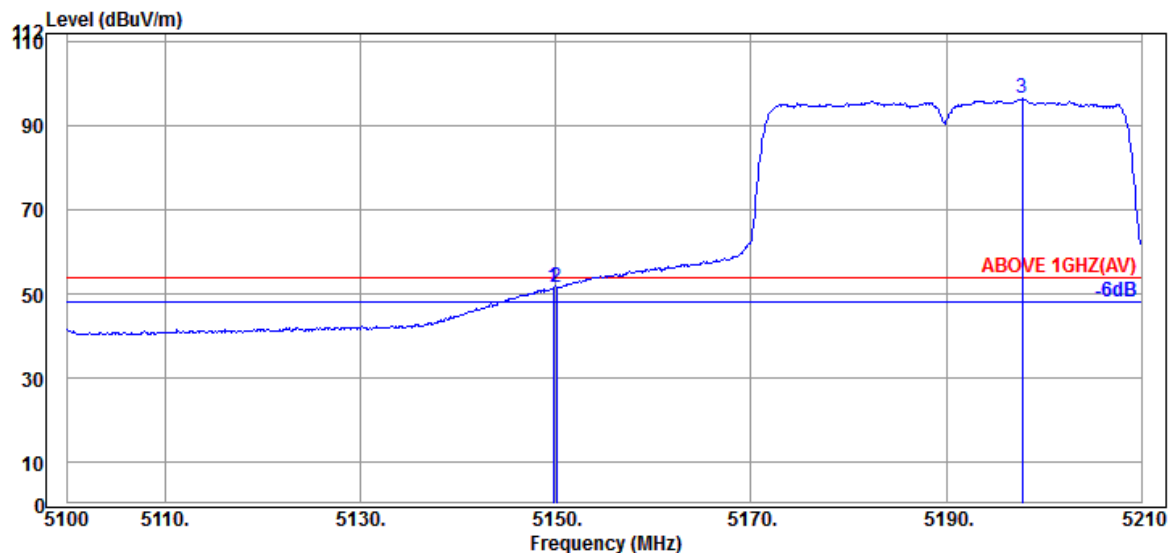
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.61	34.46	9.83	6.31	50.60	54.00	3.40	Average
5150.05	34.46	9.83	6.32	50.61	54.00	3.39	Average
5186.57	34.47	9.88	49.21	93.56	---	---	Average

Mode	802.11ac-VHT40	UNII Band	I
	SDM	Frequency	TX 5190MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5146.53	34.46	9.83	23.52	67.81	74.00	6.19	Peak
5150.05	34.46	9.83	20.50	64.79	74.00	9.21	Peak
5186.02	34.47	9.88	63.15	107.50	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.72	34.46	9.83	7.19	51.48	54.00	2.52	Average
5150.05	34.46	9.83	7.32	51.61	54.00	2.39	Average
5197.79	34.48	9.91	52.18	96.57	---	---	Average

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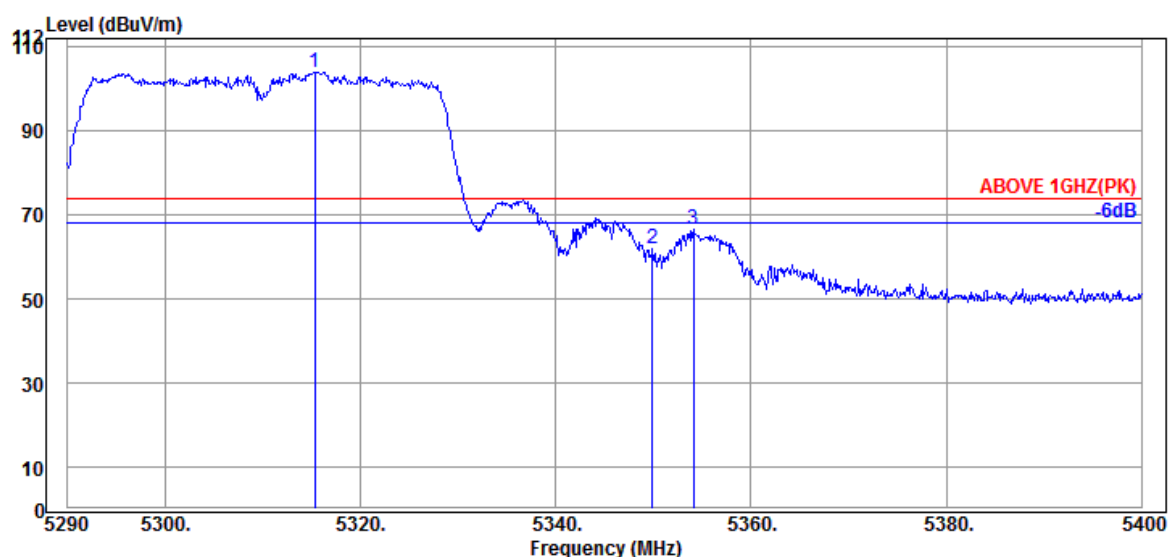
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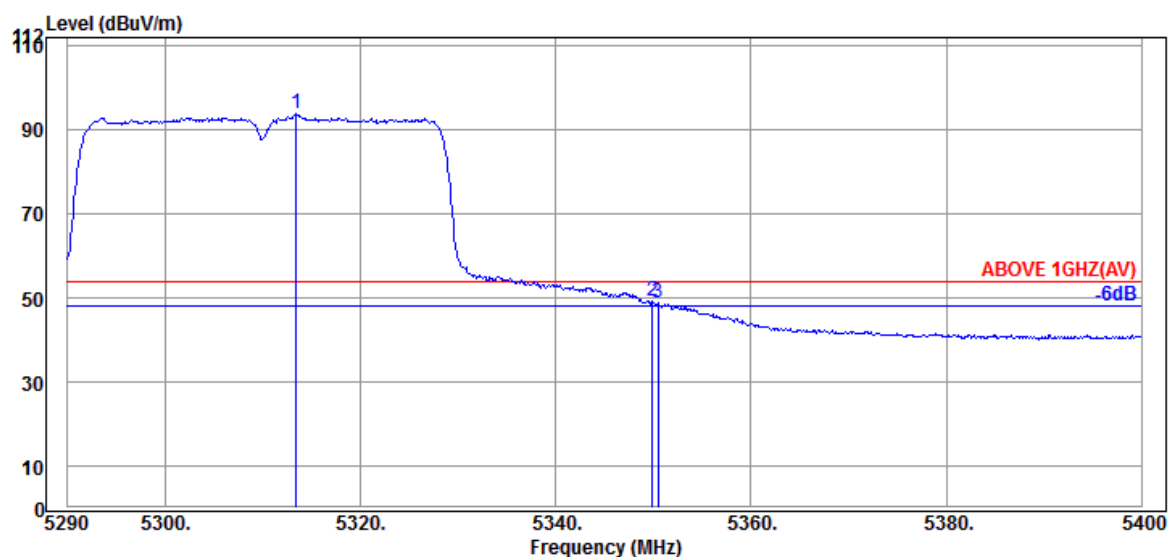
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Mode	802.11ac-VHT40	UNII Band	II-2A
	SDM	Frequency	TX 5310MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5315.30	34.53	10.08	59.47	104.08	---	---	Peak
5349.95	34.54	10.13	17.42	62.09	74.00	11.91	Peak
5354.13	34.54	10.13	21.80	66.47	74.00	7.53	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5313.43	34.53	10.08	49.18	93.79	---	---	Average
5349.95	34.54	10.13	4.70	49.37	54.00	4.63	Average
5350.50	34.54	10.13	4.27	48.94	54.00	5.06	Average

Audix Technology Corp.

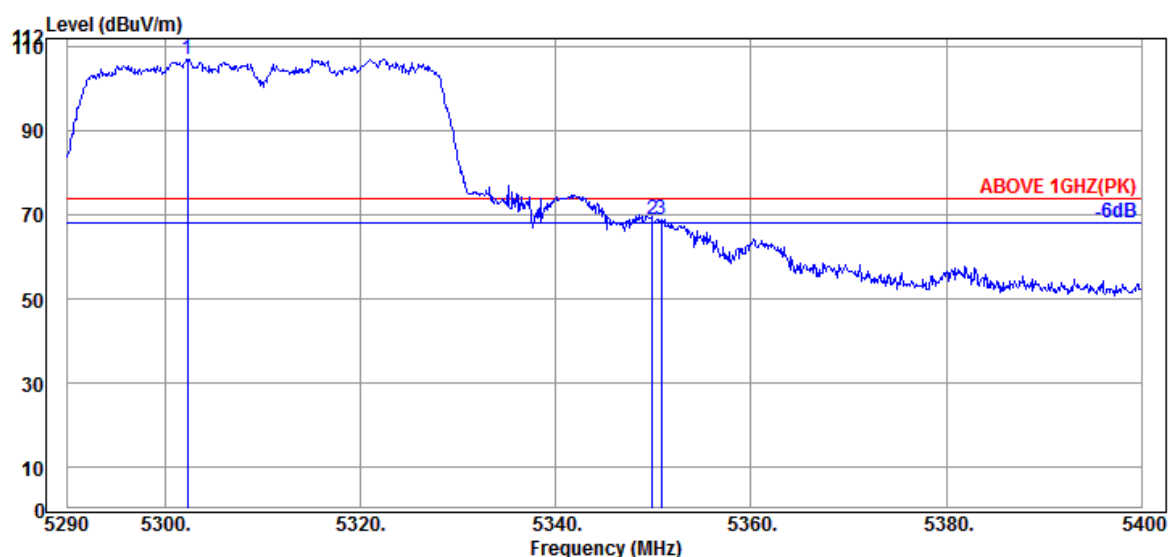
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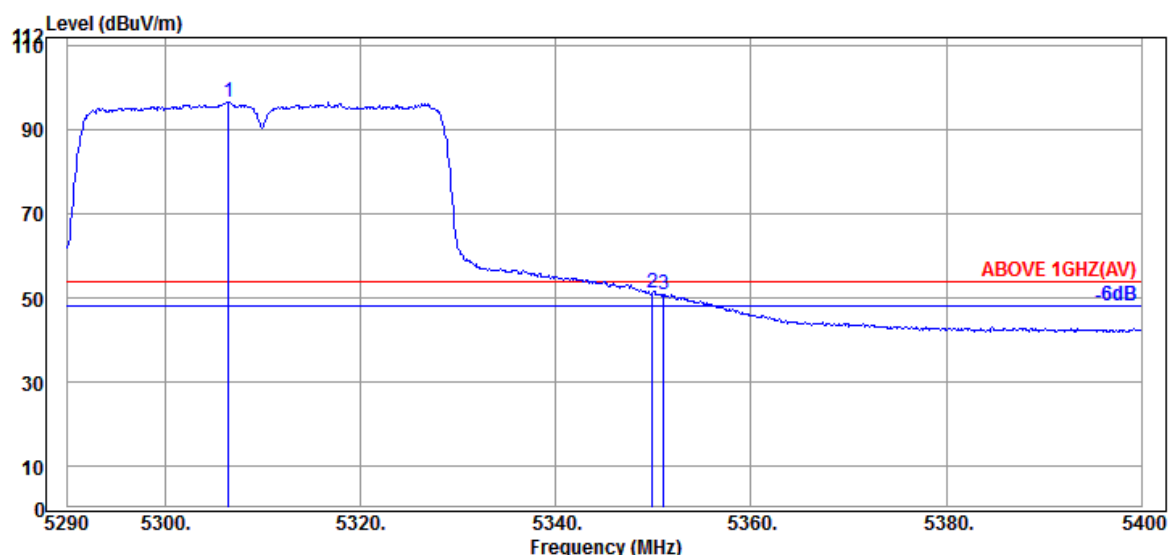
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Mode	802.11ac-VHT40	UNII Band	II-2A
	SDM	Frequency	TX 5310MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5302.32	34.52	10.05	62.46	107.03	---	---	Peak
5349.95	34.54	10.13	24.18	68.85	74.00	5.15	Peak
5350.83	34.54	10.13	24.12	68.79	74.00	5.21	Peak



Antenna at Vertical Polarization

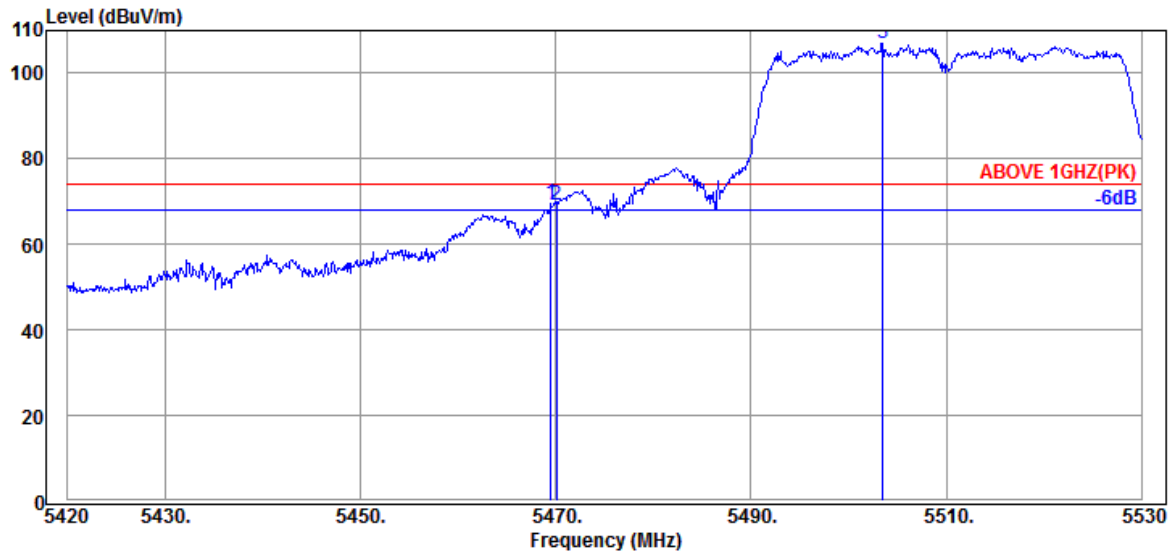
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5306.50	34.52	10.05	52.12	96.69	---	---	Average
5349.95	34.54	10.13	6.57	51.24	54.00	2.76	Average
5351.05	34.54	10.13	6.31	50.98	54.00	3.02	Average

File Number: C1M1803257

Report Number: EM-F180128

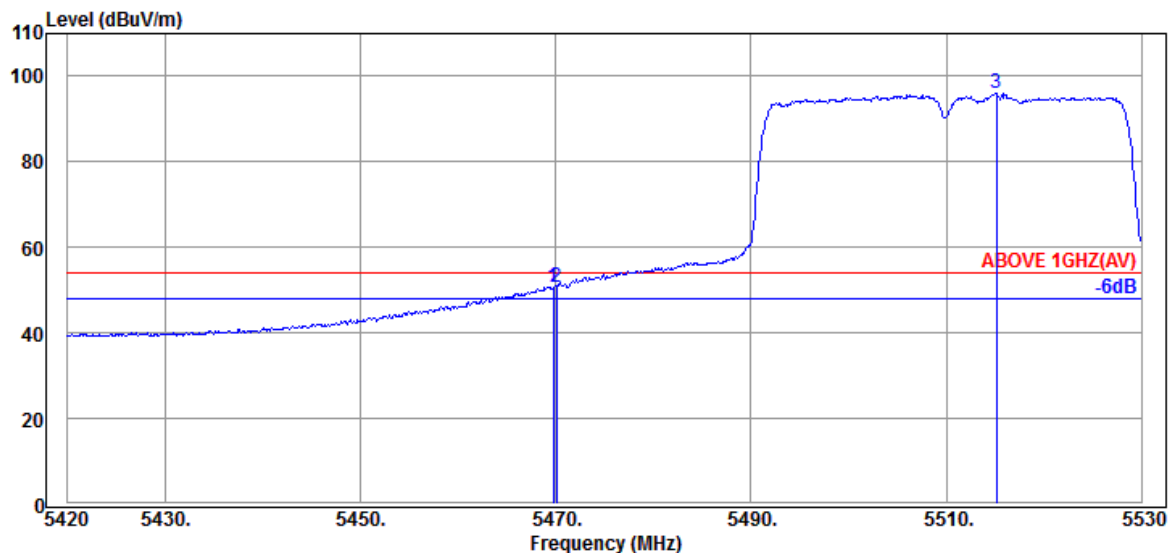
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Mode	802.11ac-VHT40	UNII Band	II-2C
	SDM	Frequency	TX 5510MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5469.50	34.59	10.30	24.55	69.44	74.00	4.56	Peak
5470.05	34.59	10.30	24.45	69.34	74.00	4.66	Peak
5503.49	34.60	10.35	62.01	106.96	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5469.72	34.59	10.30	5.86	50.75	54.00	3.25	Average
5470.05	34.59	10.30	5.73	50.62	54.00	3.38	Average
5515.15	34.62	10.36	50.88	95.86	---	---	Average

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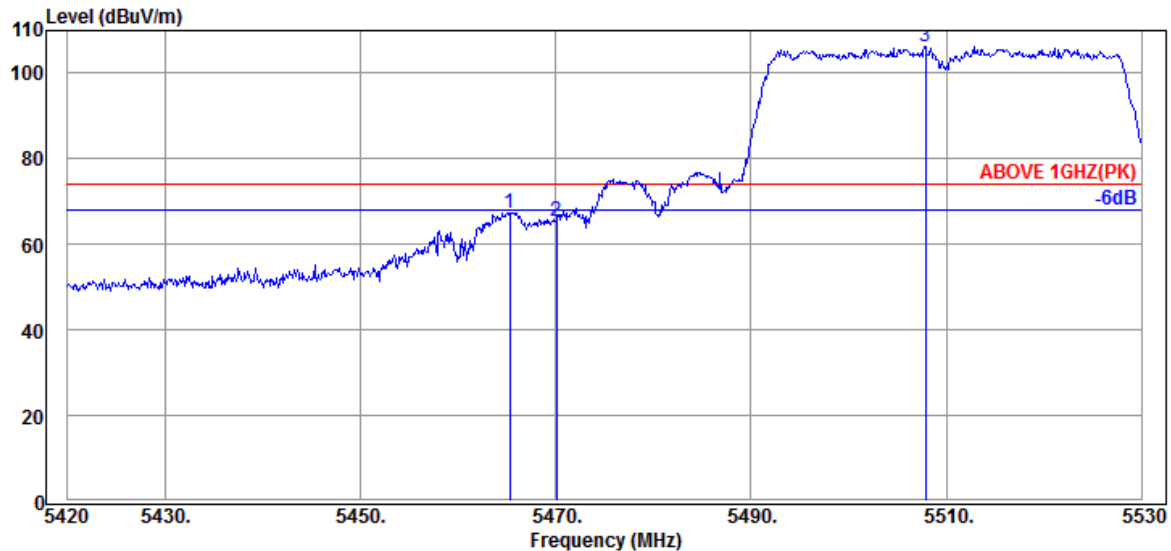
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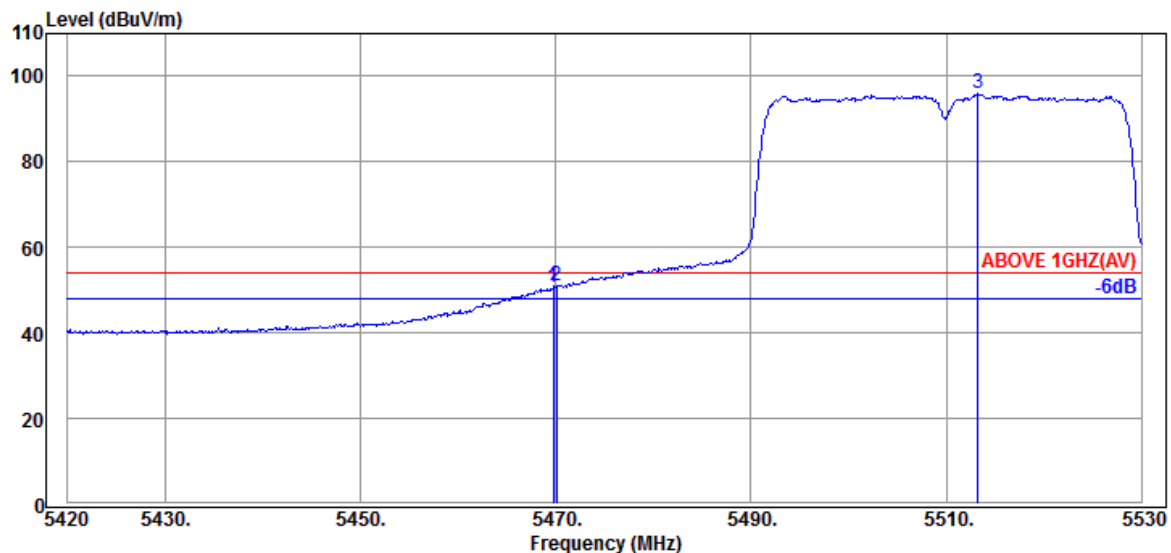
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Mode	802.11ac-VHT40	UNII Band	II-2C
	SDM	Frequency	TX 5510MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5465.32	34.59	10.30	22.58	67.47	74.00	6.53	Peak
5470.05	34.59	10.30	20.60	65.49	74.00	8.51	Peak
5507.89	34.60	10.35	61.31	106.26	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5469.72	34.59	10.30	5.88	50.77	54.00	3.23	Average
5470.05	34.59	10.30	6.03	50.92	54.00	3.08	Average
5513.28	34.60	10.35	50.98	95.93	---	---	Average

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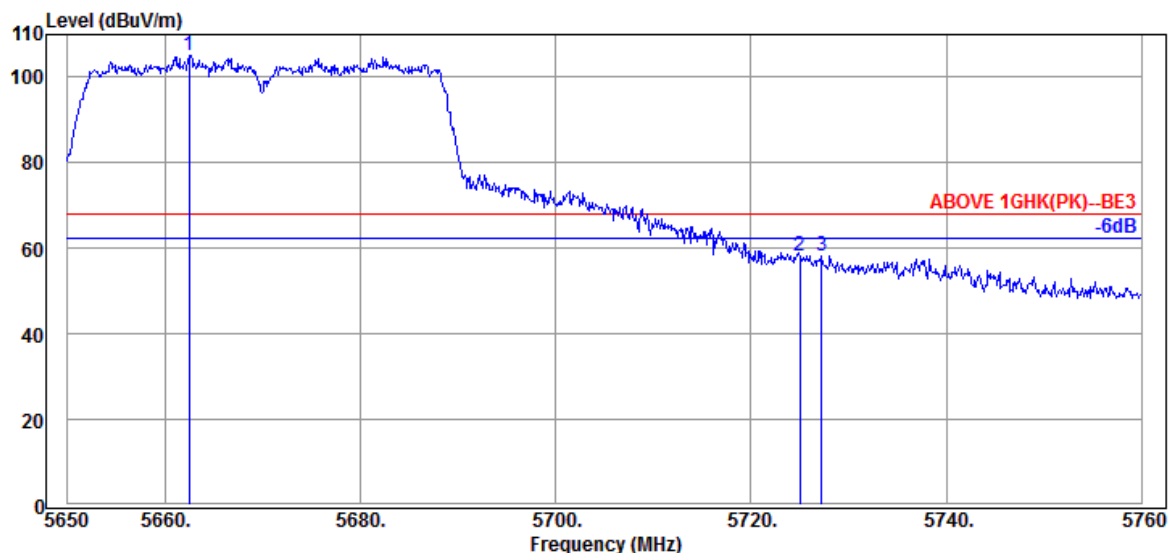
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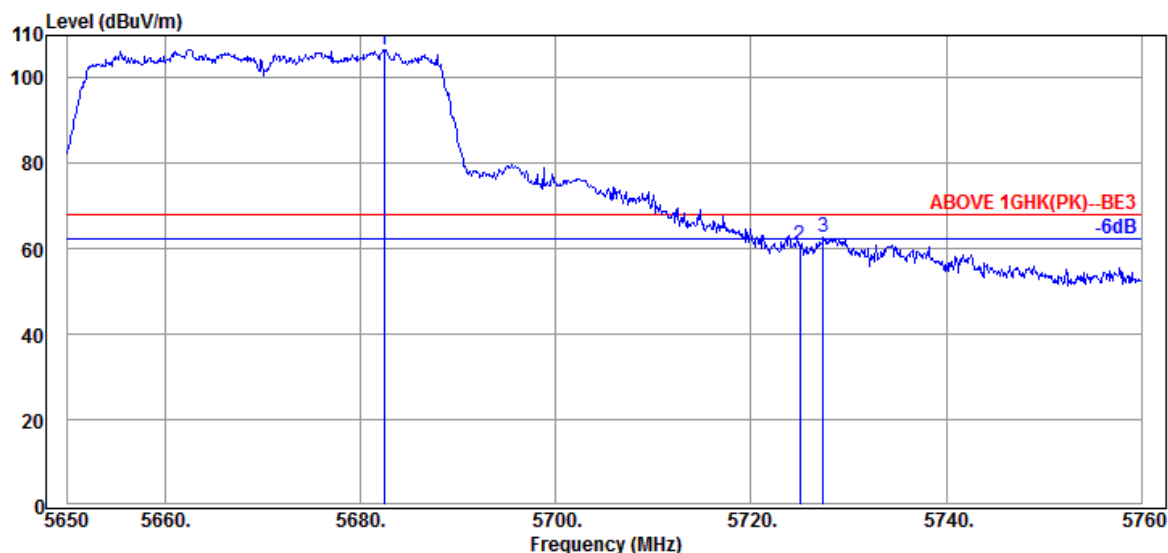
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Mode	802.11ac-VHT40	UNII Band	II-2C
	SDM	Frequency	TX 5670MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5662.43	34.79	10.47	59.80	105.06	68.20	---	Peak
5725.02	34.87	10.52	12.89	58.28	68.20	9.92	Peak
5727.22	34.87	10.52	12.80	58.19	68.20	10.01	Peak



Antenna at Vertical Polarization

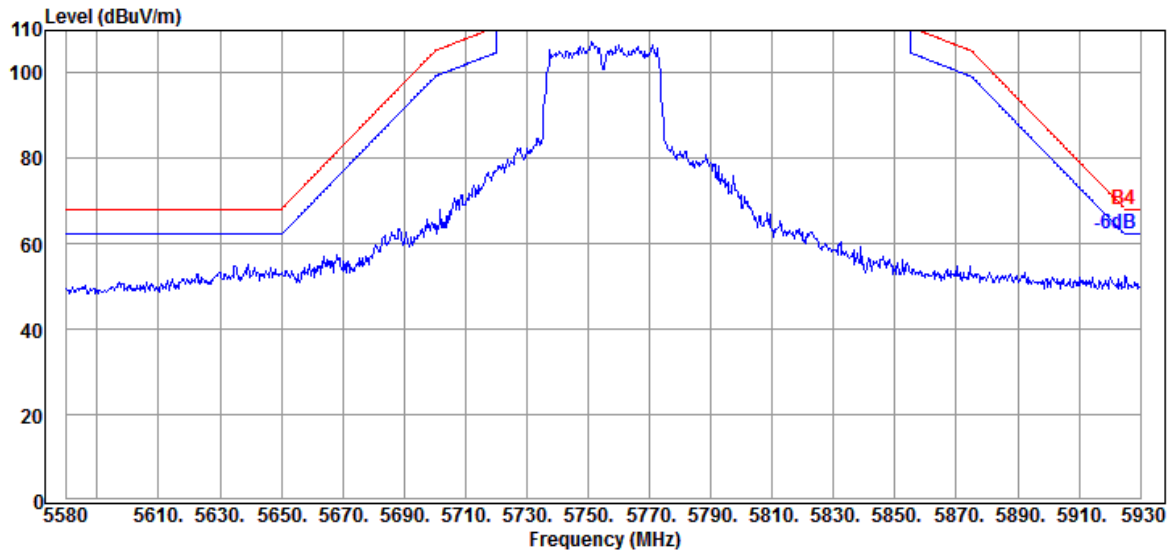
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5682.45	34.81	10.48	61.37	106.66	68.20	---	Peak
5725.02	34.87	10.52	15.33	60.72	68.20	7.48	Peak
5727.44	34.87	10.52	17.45	62.84	68.20	5.36	Peak

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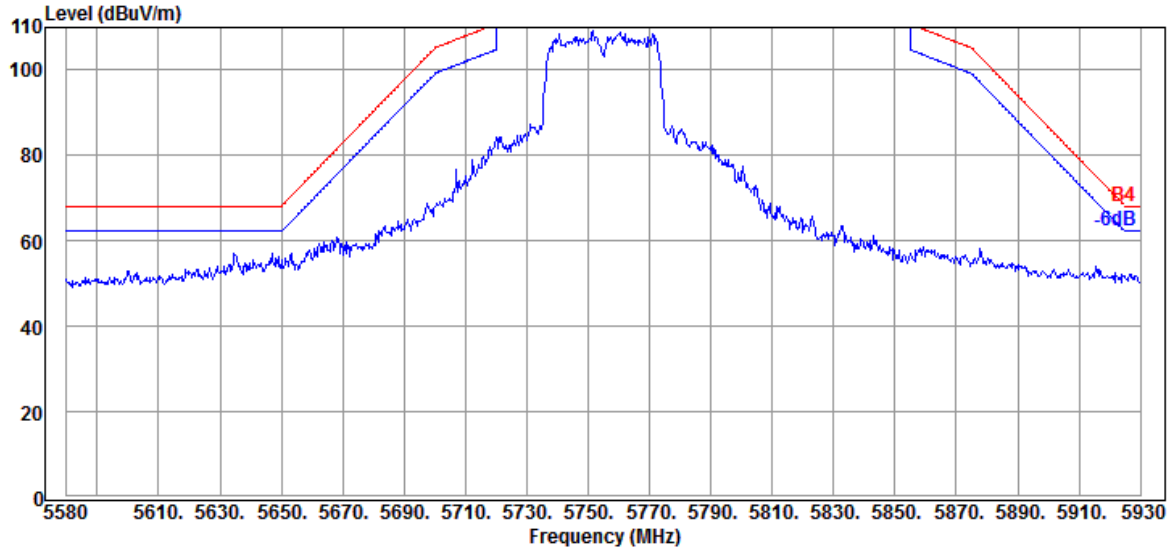
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Mode	802.11ac-VHT40	UNII Band	III
	SDM	Frequency	TX 5755MHz

Antenna at Horizontal Polarization



Antenna at Vertical Polarization

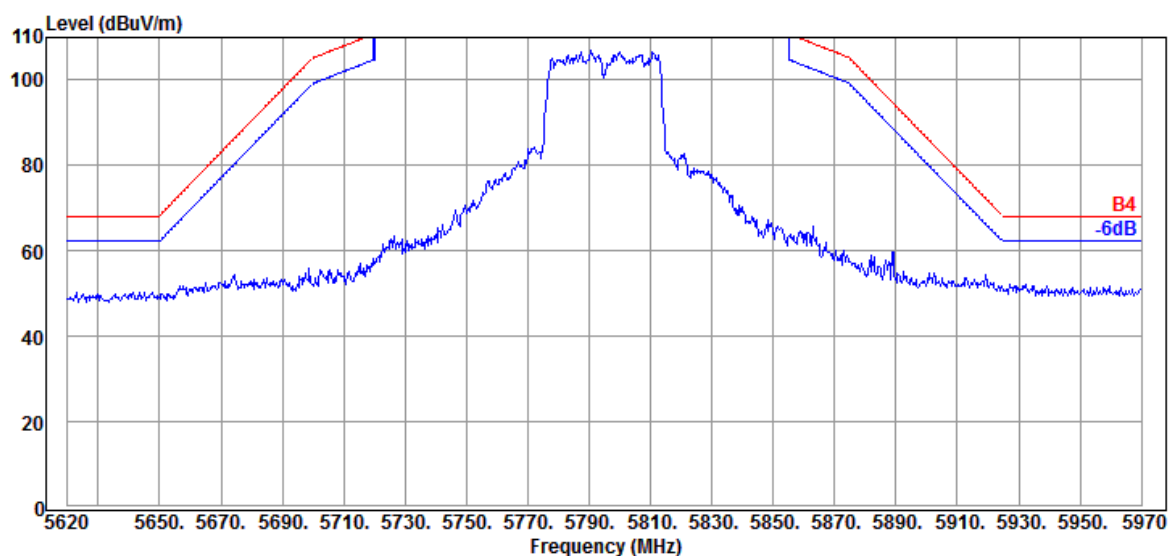


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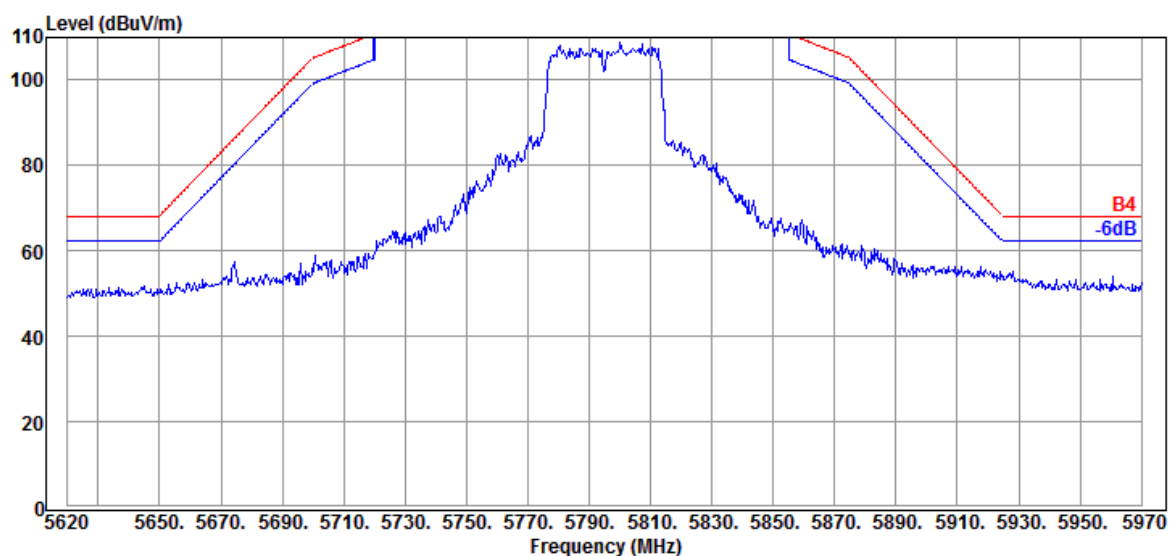
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Mode	802.11ac-VHT40	UNII Band	III
	SDM	Frequency	TX 5795MHz

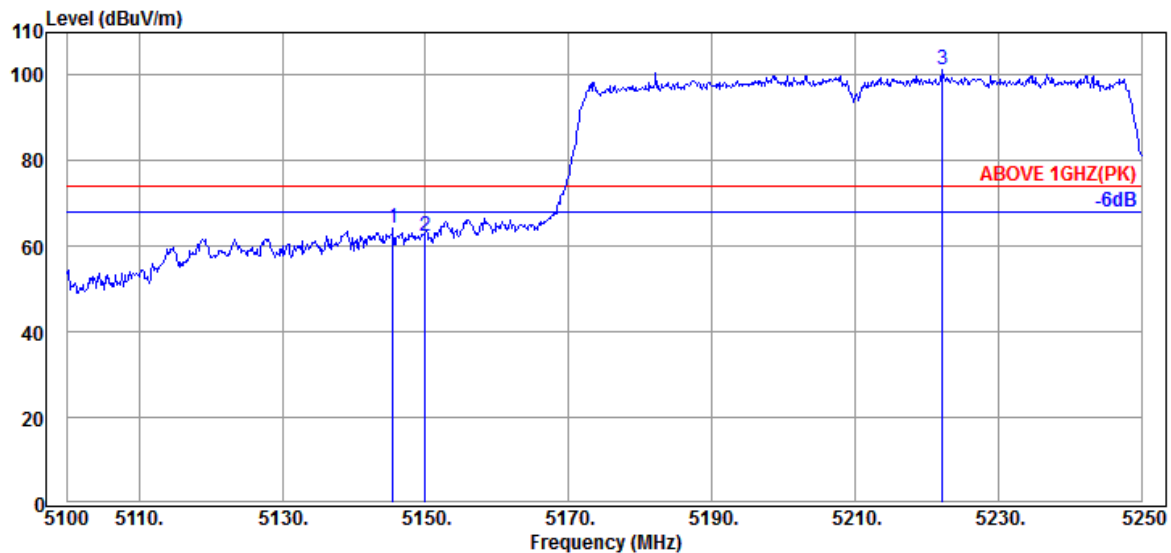
Antenna at Horizontal Polarization



Antenna at Vertical Polarization

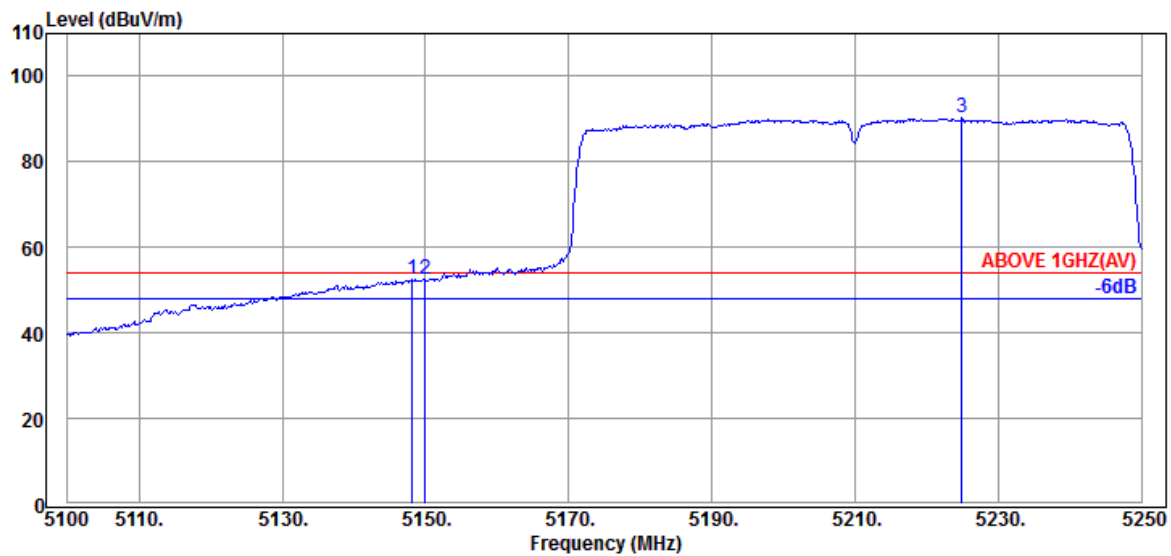


Mode	802.11ac-VHT80	UNII Band	I
	SDM	Frequency	TX 5210MHz



Antenna at Horizontal Polarization

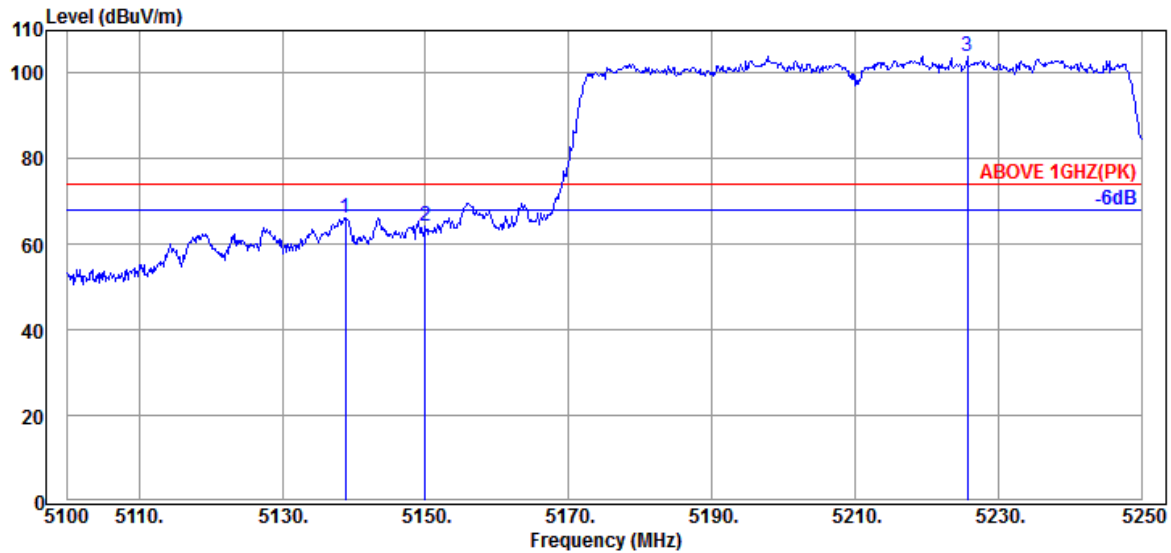
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5145.45	34.46	9.83	20.04	64.33	74.00	9.67	Peak
5149.95	34.46	9.83	17.99	62.28	74.00	11.72	Peak
5222.25	34.49	9.93	56.76	101.18	---	---	Peak



Antenna at Horizontal Polarization

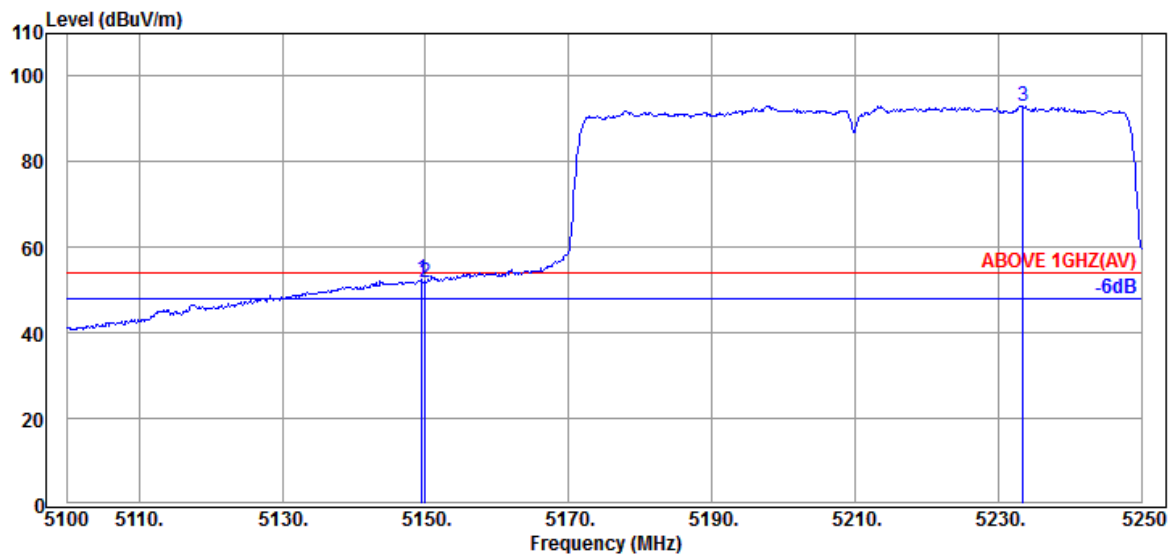
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5148.15	34.46	9.83	8.38	52.67	54.00	1.33	Average
5149.95	34.46	9.83	8.09	52.38	54.00	1.62	Average
5224.95	34.49	9.96	45.78	90.23	---	---	Average

Mode	802.11ac-VHT80	UNII Band	I
	SDM	Frequency	TX 5210MHz



Antenna at Vertical Polarization

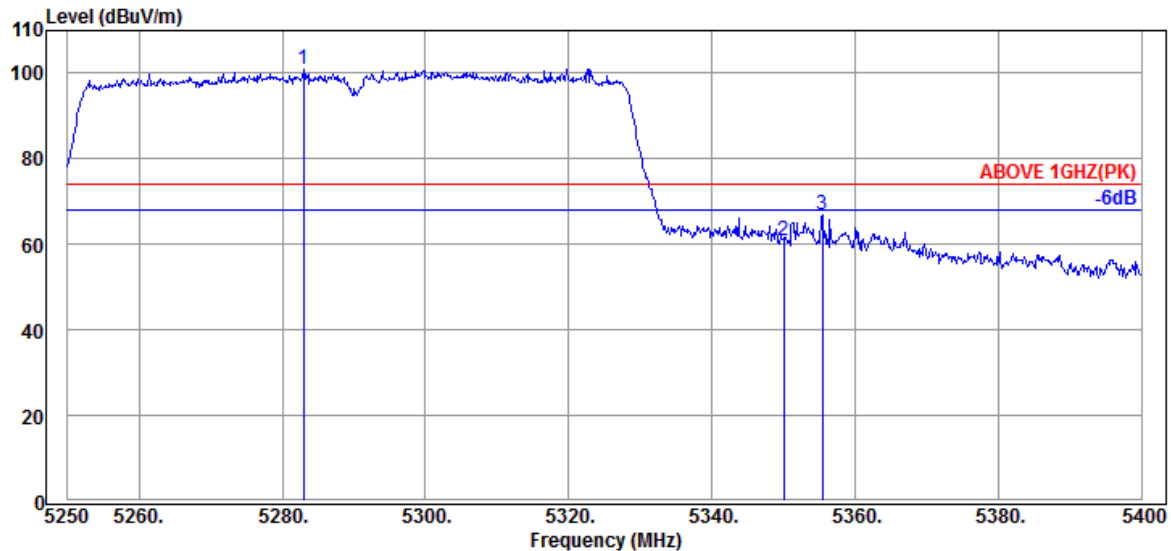
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5138.85	34.45	9.81	21.85	66.11	74.00	7.89	Peak
5149.95	34.46	9.83	20.08	64.37	74.00	9.63	Peak
5225.70	34.49	9.96	59.44	103.89	---	---	Peak



Antenna at Vertical Polarization

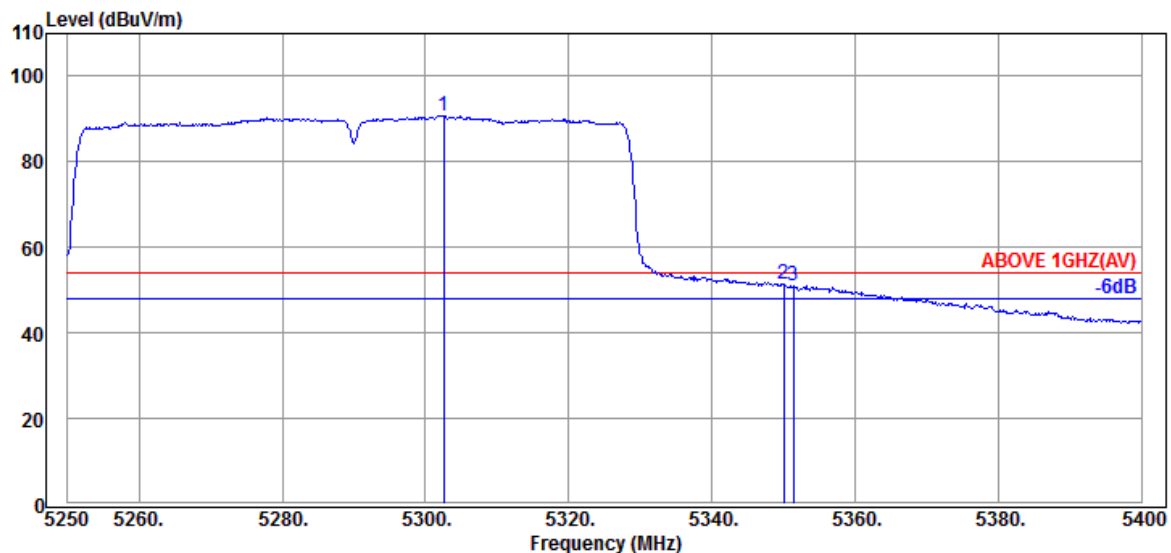
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.50	34.46	9.83	8.14	52.43	54.00	1.57	Average
5149.95	34.46	9.83	7.48	51.77	54.00	2.23	Average
5233.50	34.49	9.96	48.72	93.17	---	---	Average

Mode	802.11ac-VHT80	UNII Band	II-2A
	SDM	Frequency	TX 5290MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5283.00	34.51	10.03	56.33	100.87	---	---	Peak
5350.05	34.54	10.13	16.07	60.74	74.00	13.26	Peak
5355.45	34.54	10.13	22.17	66.84	74.00	7.16	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5302.50	34.52	10.05	46.24	90.81	---	---	Average
5350.05	34.54	10.13	6.58	51.25	54.00	2.75	Average
5351.40	34.54	10.13	6.28	50.95	54.00	3.05	Average

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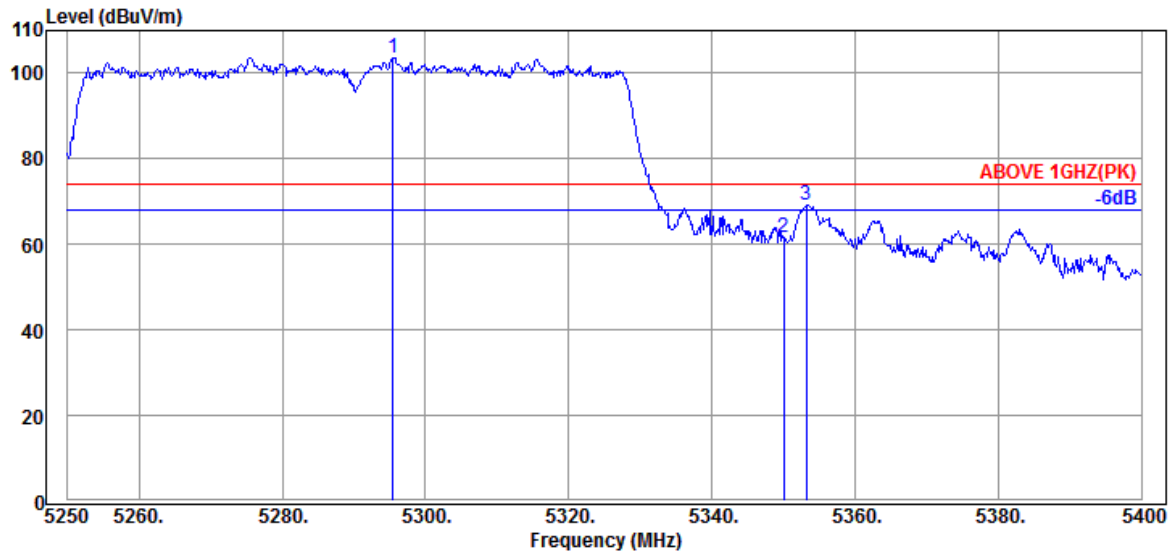
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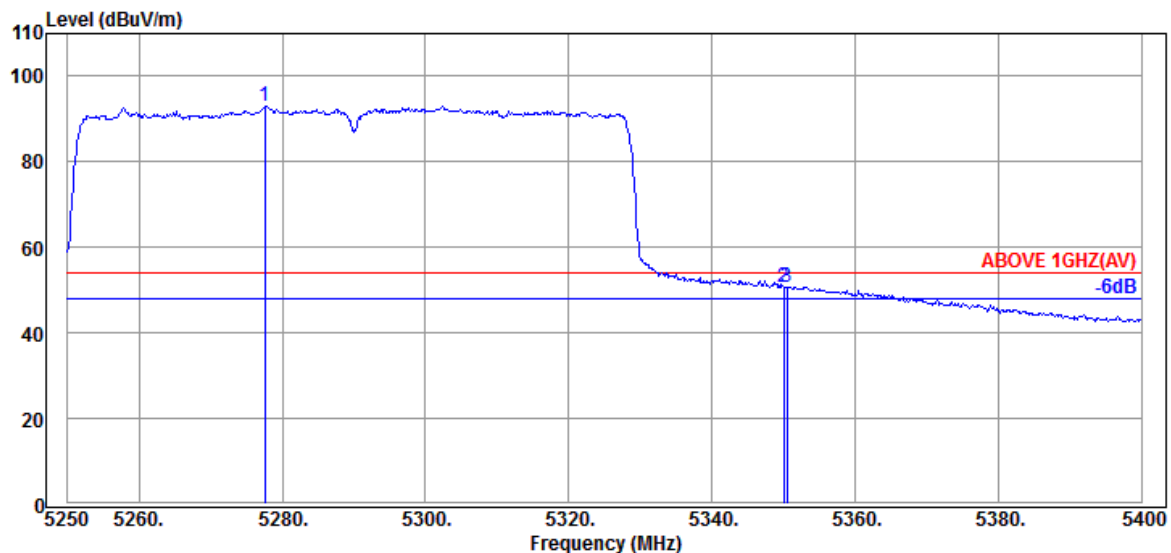
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Mode	802.11ac-VHT80	UNII Band	II-2A
	SDM	Frequency	TX 5290MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5295.45	34.52	10.05	59.06	103.63	---	---	Peak
5350.05	34.54	10.13	16.85	61.52	74.00	12.48	Peak
5353.20	34.54	10.13	24.55	69.22	74.00	4.78	Peak



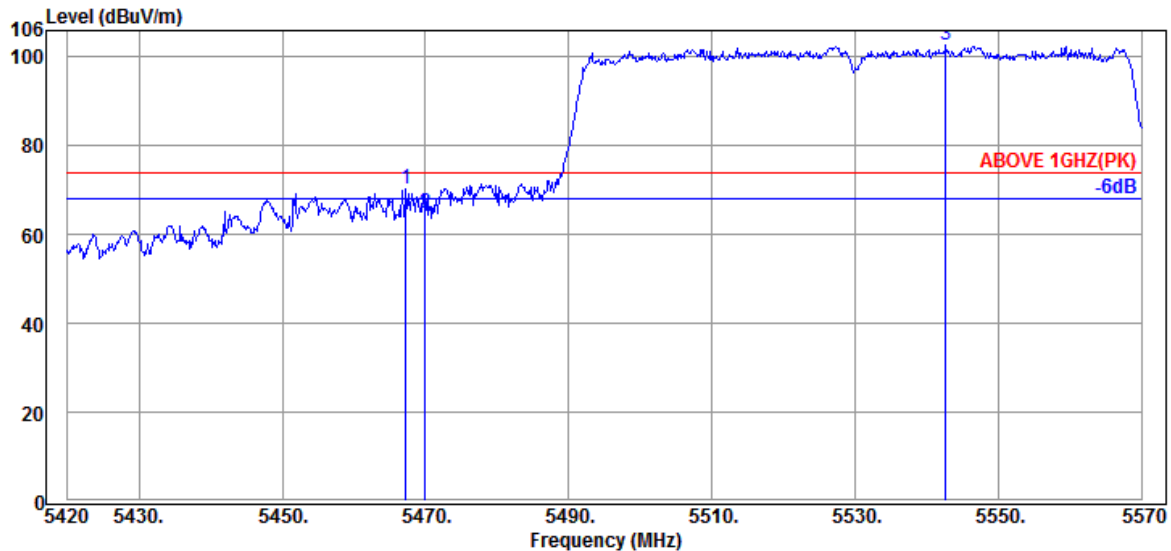
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5277.60	34.51	10.03	48.43	92.97	---	---	Average
5350.05	34.54	10.13	6.09	50.76	54.00	3.24	Average
5350.50	34.54	10.13	6.15	50.82	54.00	3.18	Average

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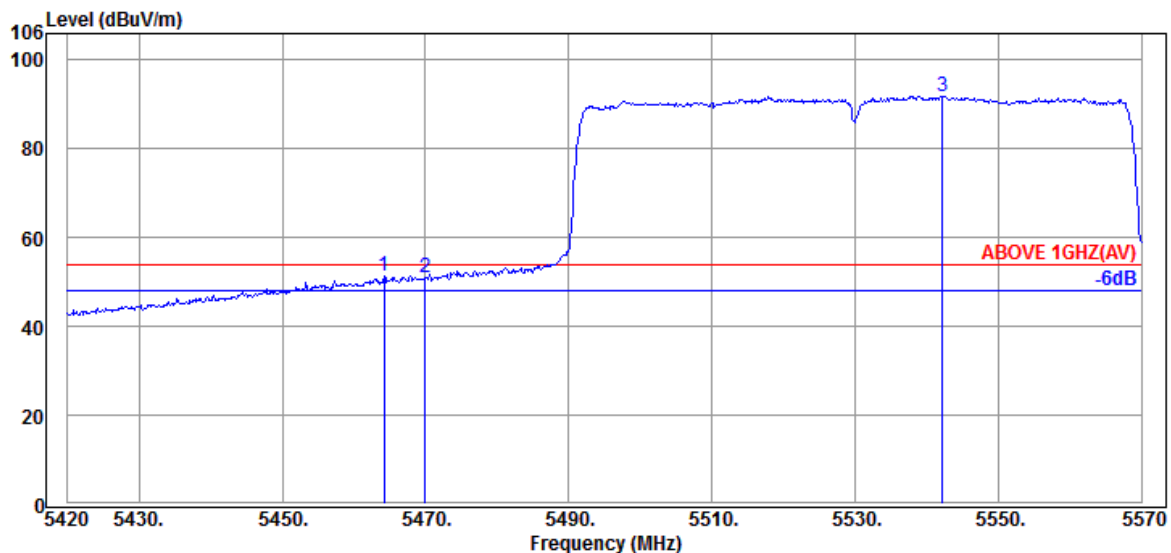
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Mode	802.11ac-VHT80	UNII Band	II-2C
	SDM	Frequency	TX 5530MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5467.25	34.59	10.30	25.38	70.27	74.00	3.73	Peak
5469.95	34.59	10.30	19.97	64.86	74.00	9.14	Peak
5542.70	34.64	10.38	57.63	102.65	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5464.25	34.59	10.30	6.34	51.23	54.00	2.77	Average
5469.95	34.59	10.30	6.06	50.95	54.00	3.05	Average
5542.25	34.64	10.38	46.82	91.84	---	---	Average

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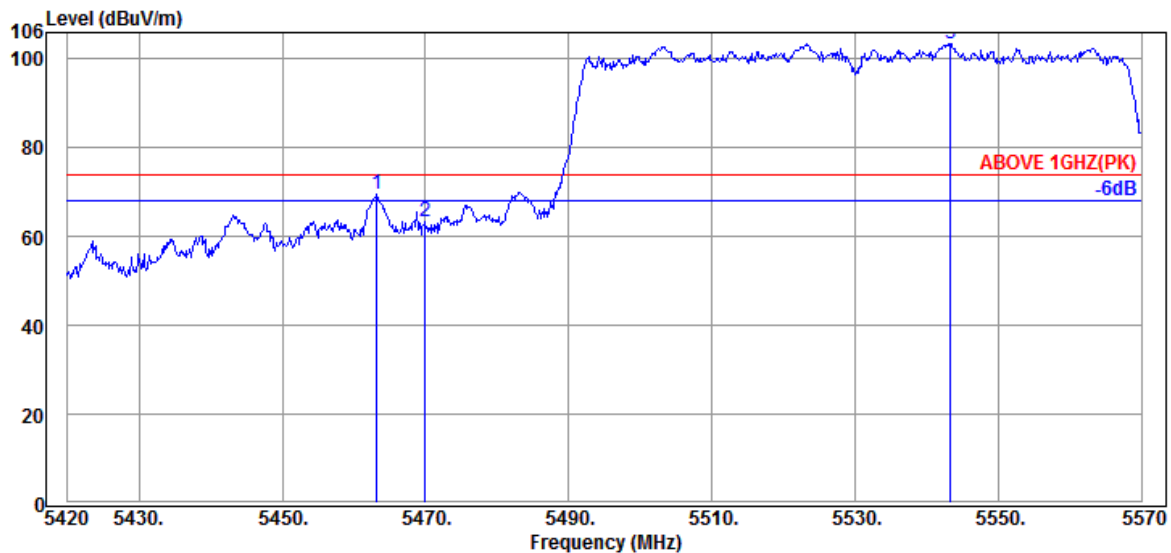
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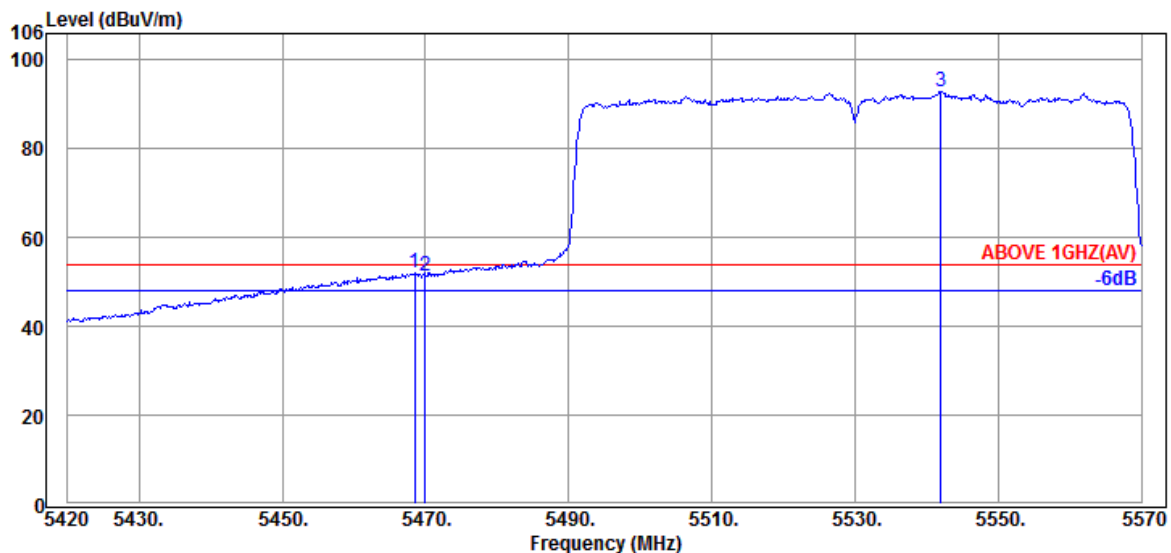
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Mode	802.11ac-VHT80	UNII Band	II-2C
	SDM	Frequency	TX 5530MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5463.20	34.59	10.30	24.63	69.52	74.00	4.48	Peak
5469.95	34.59	10.30	18.61	63.50	74.00	10.50	Peak
5543.30	34.64	10.38	58.43	103.45	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5468.45	34.59	10.30	7.28	52.17	54.00	1.83	Average
5469.95	34.59	10.30	6.58	51.47	54.00	2.53	Average
5541.95	34.64	10.38	48.01	93.03	---	---	Average

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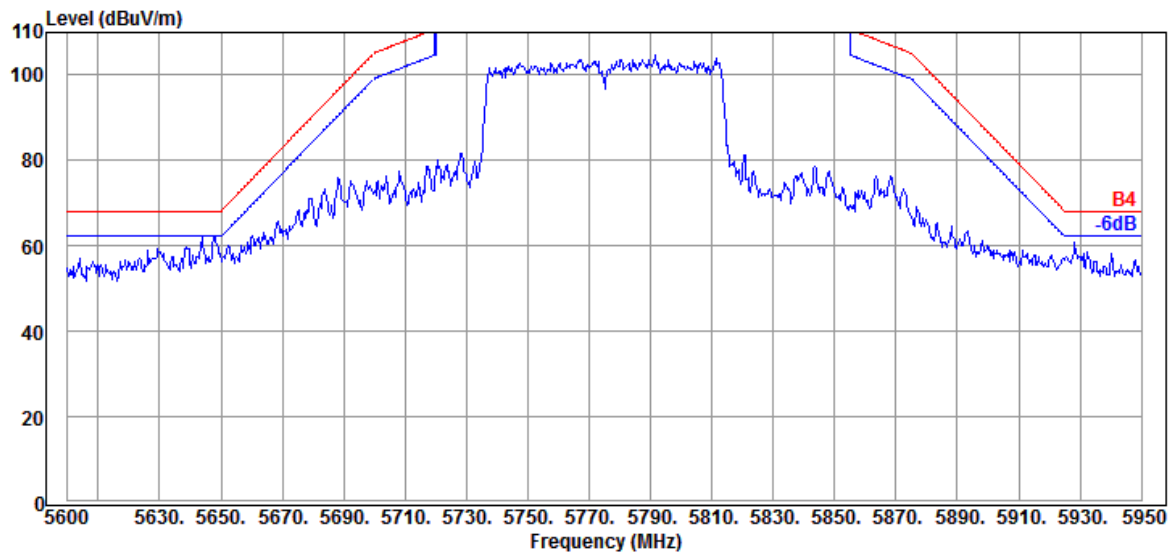
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Mode	802.11ac-VHT80	UNII Band	III
	SDM	Frequency	TX 5775MHz

Antenna at Horizontal Polarization



Antenna at Vertical Polarization

