



Shenzhen HTT Technology Co., Ltd.

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15 SUBPART E 15.407

Report Reference No.....: HTT202404147F02

FCC ID.....: 2BEMH-MPL1P

Compiled by

(position+printed name+signature)..: File administrators

Supervised by

(position+printed name+signature)..: Project Engineer

Approved by

(position+printed name+signature)..: RF Manager

Date of issue.....: Apr. 19, 2024

Heber He

Bruce Zhu

Kevin Han



Testing Laboratory Name: Shenzhen HTT Technology Co.,Ltd.

Address.....: 1F, Building B, Huafeng International Robotics Industrial Park,
Hangcheng Road,Nanchang Community, Xixiang Street, Bao'an
District, Shenzhen, Guangdong, China

Applicant's name: YEAHER INC.

Address: 51 Steel Dr, Unit A, New Castle, DE 19720 United States

Test specification

Standard: FCC Part 15 Subpart E 15.407

Shenzhen HTT Technology Co.,Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen HTT Technology Co.,Ltd. is acknowledged as copyright owner and source of the material. Shenzhen HTT Technology Co.,Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description: MINI PC

Trade Mark: N/A

Manufacturer: Nimo Direct Inc.

Model/Type reference.....: MPL1P

Listed Models: MPL1W

Modulation: OFDM

Frequency.....: From 5180MHz-5240MHz, 5745MHz-5825MHz

Ratings: DC 12.0V From External Circuit

Result.....: PASS

TEST REPORT

Equipment under Test : MINI PC

Model /Type : MPL1P

Serial Models : MPL1W

Applicant : YEAHER INC.

Model Declaration : PCB board, structure and internal of these model(s) are the same, So no additional models were tested.

Address : 51 Steel Dr, Unit A, New Castle, DE 19720 United States

Manufacturer : Nimo Direct Inc.

Address : 51 Steel Dr, Unit A, New Castle, DE 19720 United States

Test Result:	PASS
--------------	------

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

<u>1</u>	<u>TEST STANDARDS</u>	<u>4</u>
<u>2</u>	<u>SUMMARY</u>	<u>5</u>
2.1	General Remarks	5
2.2	Product Description	5
2.3	Equipment Under Test	5
2.4	Short description of the Equipment under Test (EUT)	5
2.5	EUT operation mode	6
2.6	Block Diagram of Test Setup	6
2.7	Related Submittal(s) / Grant (s)	6
2.8	Modifications	6
<u>3</u>	<u>TEST ENVIRONMENT</u>	<u>7</u>
3.1	Address of the test laboratory	7
3.2	Test Facility	7
3.3	Environmental conditions	7
3.4	Test Description	8
3.5	Statement of the measurement uncertainty	8
3.6	Equipments Used during the Test	9
<u>4</u>	<u>TEST CONDITIONS AND RESULTS.....</u>	<u>10</u>
4.1	AC Power Conducted Emission	10
4.2	Radiated Emissions	13
4.3	Maximum Conducted Average Output Power	20
4.4	Power Spectral Density	24
4.5	Emission Bandwidth (26dB Bandwidth)	38
4.6	Minimum Emission Bandwidth (6dB Bandwidth)	46
4.7	Frequency Stability	54
<u>5</u>	<u>TEST SETUP PHOTOS OF THE EUT</u>	<u>56</u>
<u>6</u>	<u>PHOTOS OF THE EUT</u>	<u>56</u>

1 TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15 Subpart E](#)—Unlicensed National Information Infrastructure Devices

[ANSI C63.10-2013](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB789033 D02](#): General UNII Test Procedures New Rules v01r02

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Apr. 11, 2024
Testing commenced on	:	Apr. 11, 2024
Testing concluded on	:	Apr. 19, 2024

2.2 Product Description

Product Description:	MINI PC			
Model:	MPL1P			
Power Supply:	DC 12.0V From External Circuit			
Adapter Information:	MODEL:SOY-1200300US-459 INPUT:100-240V~ 50/60Hz 0.9A Max OUTPUT:12.0V=3.0A 36.0W			
testing sample ID:	HTT202404147-1# (Engineer sample), HTT202404147-2# (Normal sample)			
Hardware version:	V1.0			
Software version:	V1.0			
WIFI				
Supported type:	20MHz system	40MHz system	80MHz system	160MHz system
	802.11a 802.11n 802.11ac	802.11n 802.11ac	802.11ac	N/A
Operation frequency:	5180MHz-5240MHz 5745MHz-5825MHz	5190MHz-5230MHz 5755MHz-5795MHz	5210MHz 5775MHz	N/A
Modulation:	OFDM	OFDM	OFDM	N/A
Channel number:	9	4	2	N/A
Channel separation:	20MHz	40MHz	80MHz	N/A
Antenna Type:	FPC Antenna			
Antenna gain:	0.32 dBi for ANT 1 and 1.47dBi for ANT 2			

2.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐ 230V / 50 Hz	☐ 120V / 60Hz
		☐ 12 V DC	☐ 24 V DC
		☒ Other (specified in blank below)	

DC 12.0V From External Circuit

2.4 Short description of the Equipment under Test (EUT)

This is a MINI PC.

For more details, refer to the user's manual of the EUT.

2.5 EUT operation mode

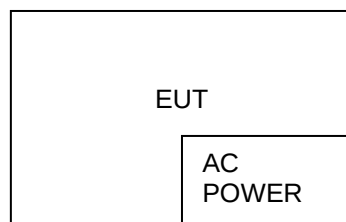
The Applicant provides communication tools software (AT command) to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing.
All test performed at the low, middle and high of operational frequency range of each mode.

Operation Frequency List WIFI on 5G Band:

Operating band	20MHz		40MHz		80MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII 1 (5150MHz-5250MHz)	36	5180	38	5190	42	5210
	40	5200				
	44	5220	46	5230		
	48	5240				
U-NII 3 (5725MHz-5850MHz)	149	5745	151	5755	155	5775
	153	5765				
	157	5785	159	5795		
	161	5805				
	165	5825	--	--	--	--

Note: The line display in grey is those Channels/Frequencies select to test in this report for each operation mode.

2.6 Block Diagram of Test Setup



2.7 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section 15.407 of the FCC Part 15, Subpart E Rules.

2.8 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen HTT Technology Co.,Ltd.

1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road, Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 779513 Designation Number: CN1319

Shenzhen HTT Technology Co.,Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6435.01

Shenzhen HTT Technology Co.,Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Radiated Emission:

Temperature:	25 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

Temperature:	25 ° C
Humidity:	44 %
Atmospheric pressure:	950-1050mbar

AC Power Conducted Emission

Temperature:	26 ° C
Humidity:	46 %
Atmospheric pressure:	950-1050mbar

3.4 Test Description

FCC Requirement		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.407(a)	Emission Bandwidth(26dBm Bandwidth)	PASS ^{Note1}
FCC Part 15.407(e)	Minimum Emission Bandwidth(6dBm Bandwidth)	PASS ^{Note2}
FCC Part 15.407(a)	Maximum Conducted Output Power	PASS
FCC Part 15.407(a)	Peak Power Spectral Density	PASS
FCC Part 15.407(g)	Frequency Stability	PASS
FCC Part 15.407(b)	Undesirable emission	PASS
FCC Part 15.407(b)/15.205/15.209	Radiated Emissions	PASS
FCC Part 15.407(h)	Dynamic Frequency Selection	N/A ^{Note 3}
FCC Part 15.203/15.247(b)	Antenna Requirement	PASS

Note 1: Apply to U-NII 1 band.

Note 2: Apply to U-NII 3 band only.

Note 3: This device not work in DFS band.

Data Rate Used:

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate
Maximum Conducted Output Power Power Spectral Density Emission Bandwidth(26dBm Bandwidth) Minimum Emission Bandwidth(6dBm Bandwidth) Undesirable emission Frequency Stability	11a/OFDM	6 Mbps
	11n(20MHz),11ac(20MHz)/OFDM	7.2 Mbps
	11n(40MHz),11ac(40MHz)/OFDM	15.0Mbps
	11ac(80MHz)/OFDM	65.0Mbps

3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen HTT Technology Co.,Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen HTT Technology Co.,Ltd.:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	3.45 dB	(1)
Radiated Emission	1~18GHz	3.54 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)

Conducted Disturbance	0.15~30MHz	2.66 dB	(1)
-----------------------	------------	---------	-----

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

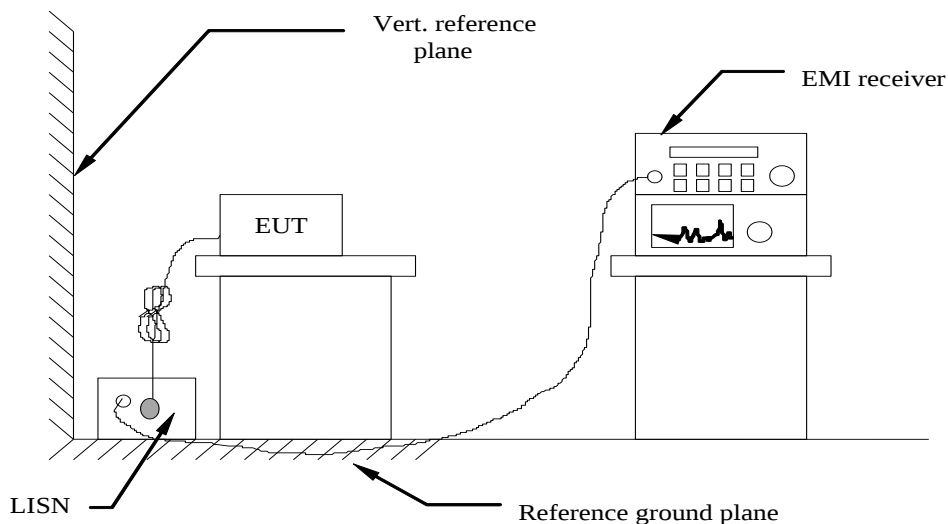
3.6 Equipments Used during the Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	Shenzhen C.R.T technology co., LTD	9*6*6	HTT-E028	Aug. 10 2021	Aug. 09 2024
2	Control Room	Shenzhen C.R.T technology co., LTD	4.8*3.5*3.0	HTT-E030	Aug. 10 2021	Aug. 09 2024
3	EMI Test Receiver	Rohde&Schwarz	ESCI7	HTT-E022	Apr. 26 2023	Apr. 25 2024
4	Spectrum Analyzer	Rohde&Schwarz	FSP	HTT-E037	Apr. 26 2023	Apr. 25 2024
5	Coaxial Cable	ZDecl	ZT26-NJ-NJ-0.6M	HTT-E018	Apr. 26 2023	Apr. 25 2024
6	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-2M	HTT-E019	Apr. 26 2023	Apr. 25 2024
7	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-0.6M	HTT-E020	Apr. 26 2023	Apr. 25 2024
8	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-8.5M	HTT-E021	Apr. 26 2023	Apr. 25 2024
9	Composite logarithmic antenna	Schwarzbeck	VULB 9168	HTT-E017	May. 21 2023	May. 20 2024
10	Horn Antenna	Schwarzbeck	BBHA9120D	HTT-E016	May. 20 2023	May. 19 2024
11	Loop Antenna	Zhinan	ZN30900C	HTT-E039	Apr. 26 2023	Apr. 25 2024
12	Horn Antenna	Beijing Hangwei Dayang	OBH100400	HTT-E040	Apr. 26 2023	Apr. 25 2024
13	low frequency Amplifier	Sonoma Instrument	310	HTT-E015	Apr. 26 2023	Apr. 25 2024
14	high-frequency Amplifier	HP	8449B	HTT-E014	Apr. 26 2023	Apr. 25 2024
15	Variable frequency power supply	Shenzhen Anbiao Instrument Co., Ltd	ANB-10VA	HTT-082	Apr. 26 2023	Apr. 25 2024
16	EMI Test Receiver	Rohde & Schwarz	ESCS30	HTT-E004	Apr. 26 2023	Apr. 25 2024
17	Artificial Mains	Rohde & Schwarz	ESH3-Z5	HTT-E006	May. 23 2023	May. 22 2024
18	Artificial Mains	Rohde & Schwarz	ENV-216	HTT-E038	May. 23 2023	May. 22 2024
19	Cable Line	Robinson	Z302S-NJ-BNCJ-1.5M	HTT-E001	Apr. 26 2023	Apr. 25 2024
20	Attenuator	Robinson	6810.17A	HTT-E007	Apr. 26 2023	Apr. 25 2024
21	Variable frequency power supply	Shenzhen Yanghong Electric Co., Ltd	YF-650 (5KVA)	HTT-E032	Apr. 26 2023	Apr. 25 2024
22	Control Room	Shenzhen C.R.T technology co., LTD	8*4*3.5	HTT-E029	Aug. 10 2021	Aug. 09 2024
23	DC power supply	Agilent	E3632A	HTT-E023	Apr. 26 2023	Apr. 25 2024
24	EMI Test Receiver	Agilent	N9020A	HTT-E024	Apr. 26 2023	Apr. 25 2024
25	Analog signal generator	Agilent	N5181A	HTT-E025	Apr. 26 2023	Apr. 25 2024
26	Vector signal generator	Agilent	N5182A	HTT-E026	Apr. 26 2023	Apr. 25 2024
27	Power sensor	Keysight	U2021XA	HTT-E027	Apr. 26 2023	Apr. 25 2024
28	Temperature and humidity meter	Shenzhen Anbiao Instrument Co., Ltd	TH10R	HTT-074	Apr. 28 2023	Apr. 27 2024
29	Radiated Emission Test Software	Farad	EZ-EMC	N/A	N/A	N/A
30	Conducted Emission Test Software	Farad	EZ-EMC	N/A	N/A	N/A
31	RF Test Software	panshanrf	TST	N/A	N/A	N/A

4 TEST CONDITIONS AND RESULTS

4.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

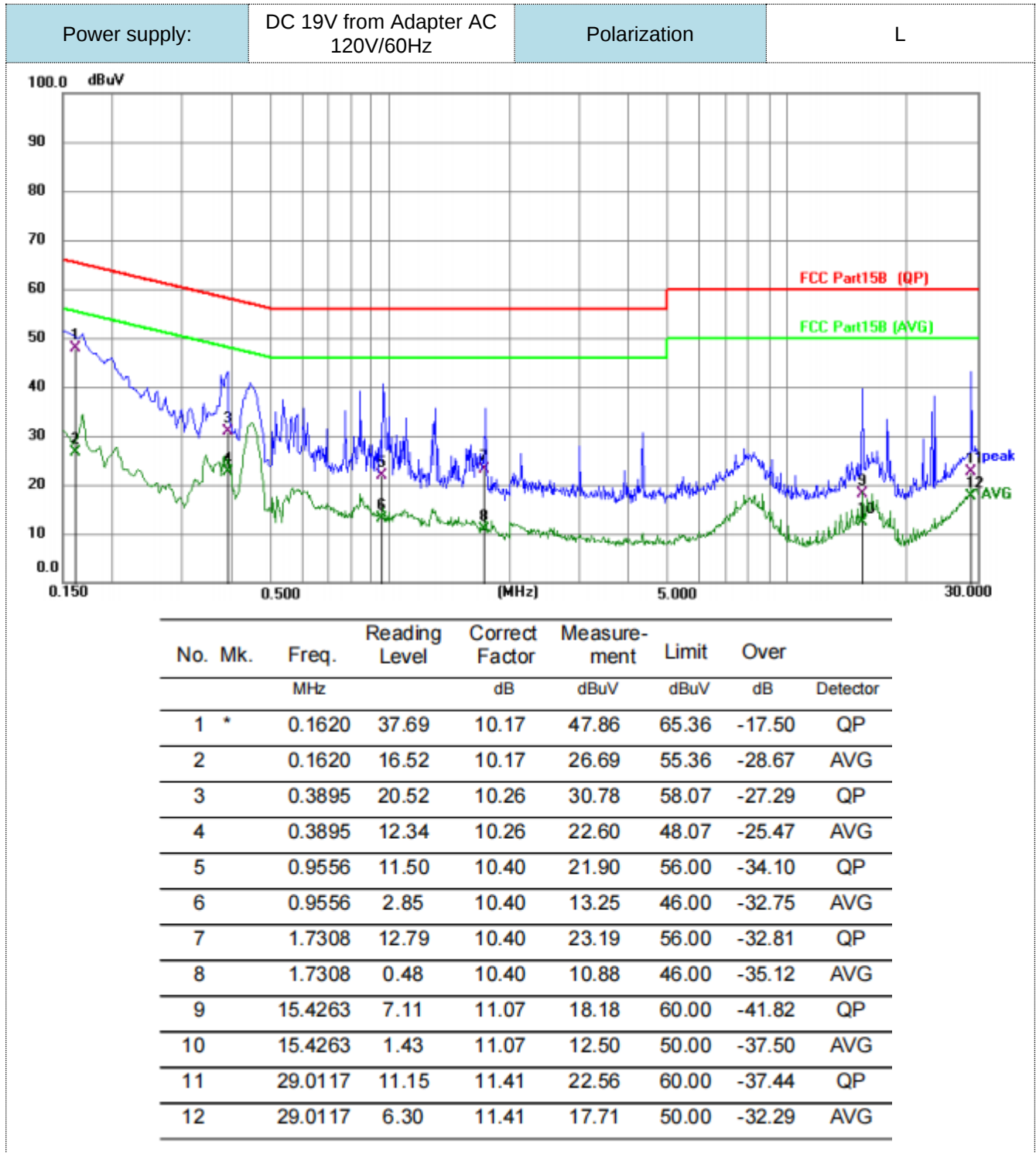
Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST RESULTS

Remark:

1. All modes of 802.11a/n/ac were tested at Low, Middle, and High channel; only the worst result of 802.11a CH36 was reported as below:
2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

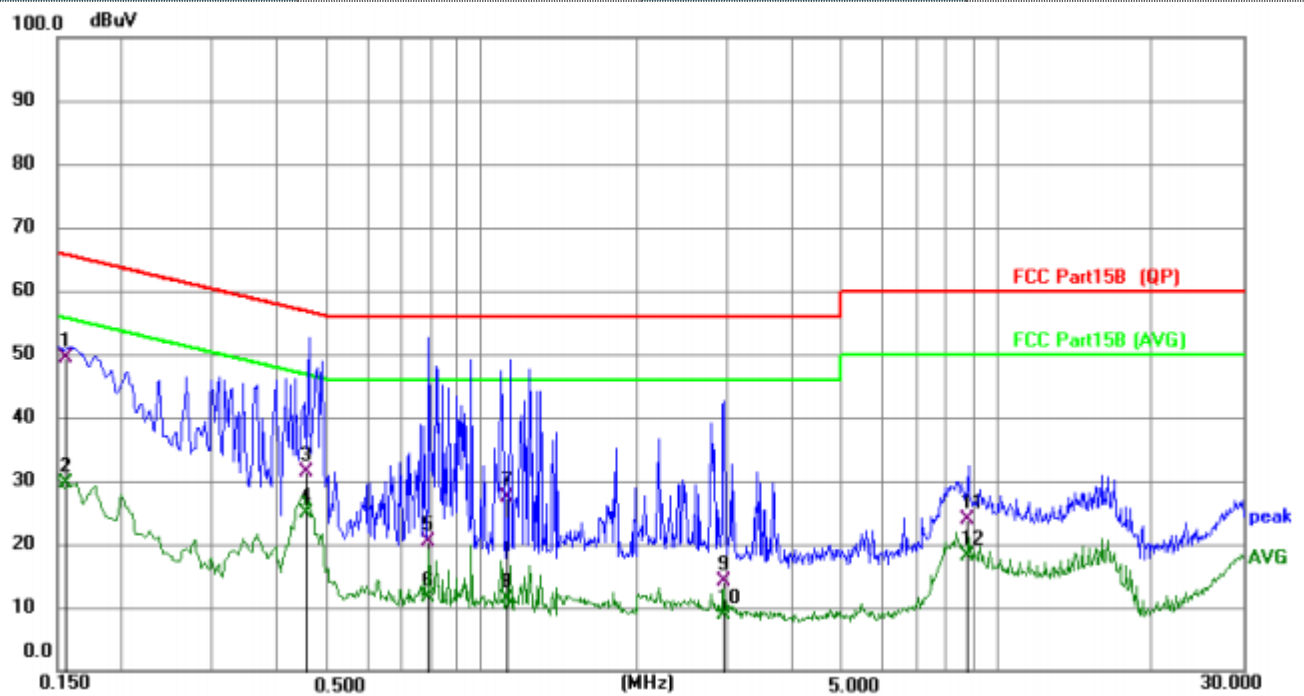


Power supply:

DC 19V from Adapter AC
120V/60Hz

Polarization

N



No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1560	39.28	10.16	49.44	65.67	-16.23	QP
2		0.1560	19.50	10.16	29.66	55.67	-26.01	AVG
3		0.4582	21.02	10.27	31.29	56.73	-25.44	QP
4		0.4582	14.65	10.27	24.92	46.73	-21.81	AVG
5		0.7857	9.99	10.37	20.36	56.00	-35.64	QP
6		0.7857	1.23	10.37	11.60	46.00	-34.40	AVG
7		1.1217	17.09	10.33	27.42	56.00	-28.58	QP
8		1.1217	1.11	10.33	11.44	46.00	-34.56	AVG
9		2.9553	3.67	10.45	14.12	56.00	-41.88	QP
10		2.9553	-1.64	10.45	8.81	46.00	-37.19	AVG
11		8.7969	12.95	10.81	23.76	60.00	-36.24	QP
12		8.7969	7.24	10.81	18.05	50.00	-31.95	AVG

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Los

4.2 Radiated Emissions

Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz 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 15.6 dBm/MHz 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 27 dBm/MHz at the band edge.

Undesirable emission limits

Requirement	Limit(EIRP)	Limit (Field strength at 3m) Note1
15.407(b)(1)	PK:-27(dBm/MHz)	PK:68.2(dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)		

Note1: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

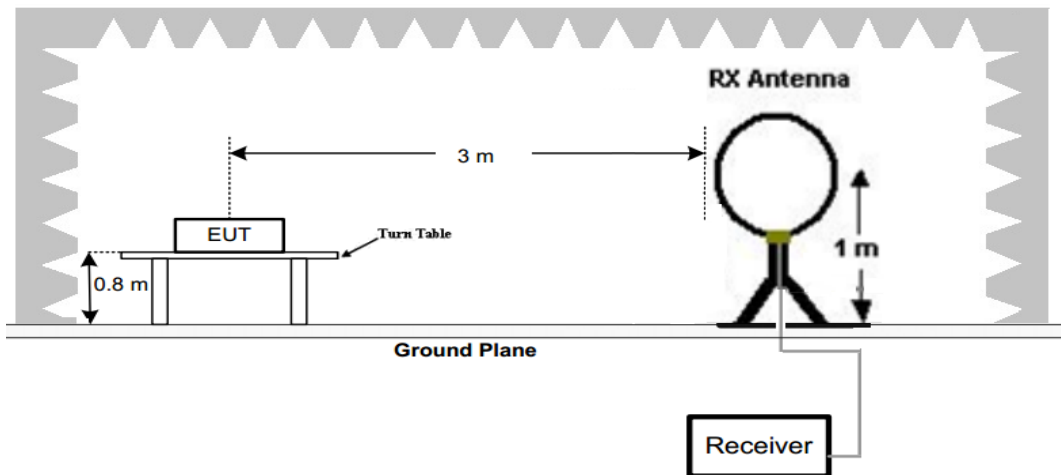
- (5) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209
- (6) In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

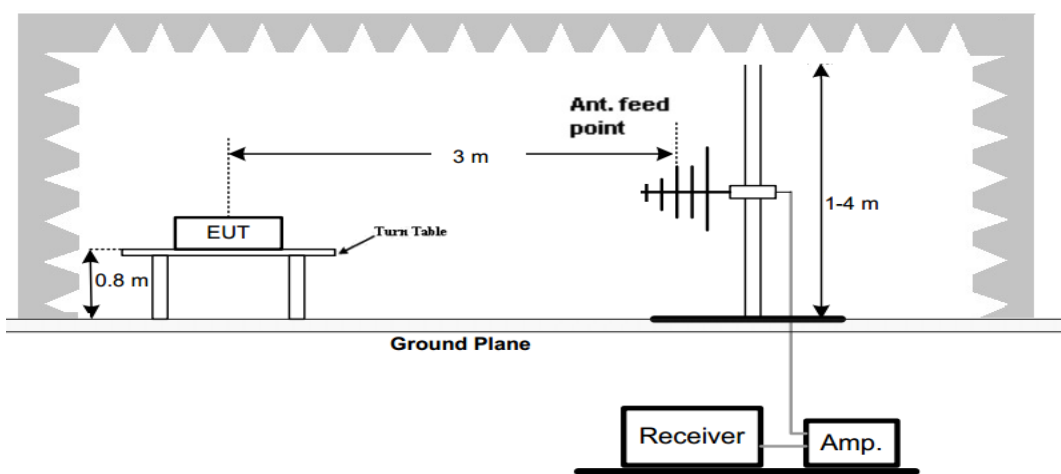
Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST CONFIGURATION

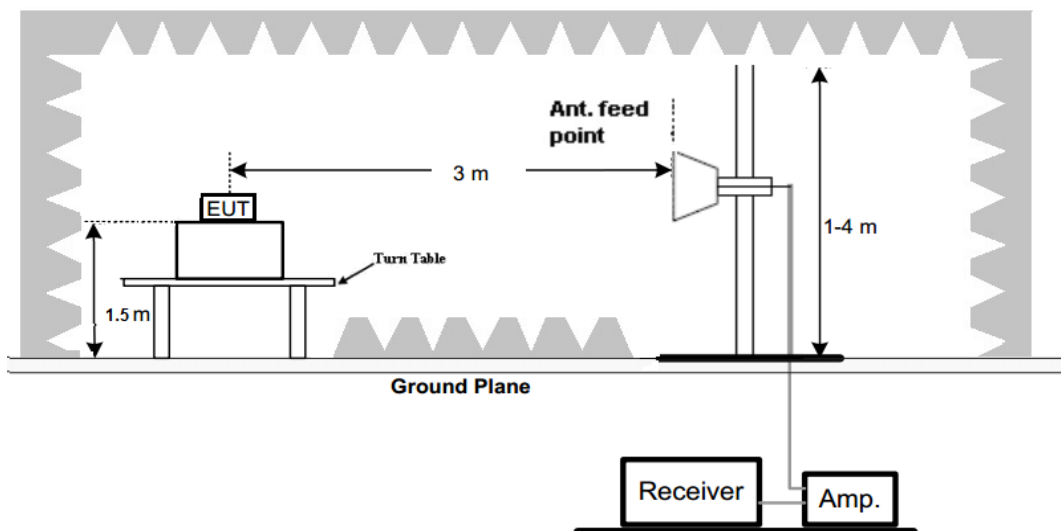
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Test Procedure

- Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
- Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed.
- Radiated emission test frequency band from 9KHz to 40GHz.
- The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Bilog Antenna	3
1GHz-18GHz	Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

- Setting test receiver/spectrum as following table states:

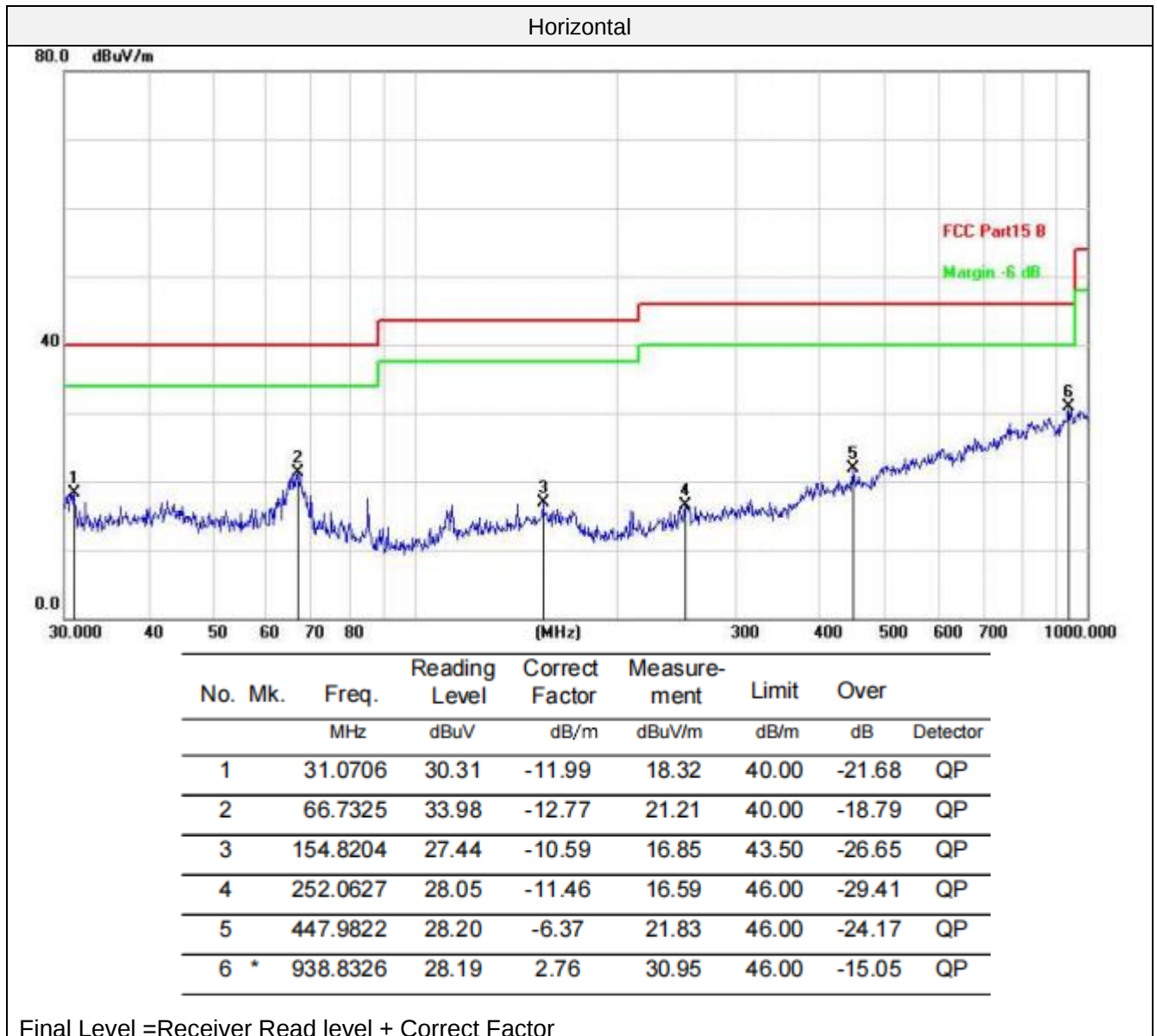
Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

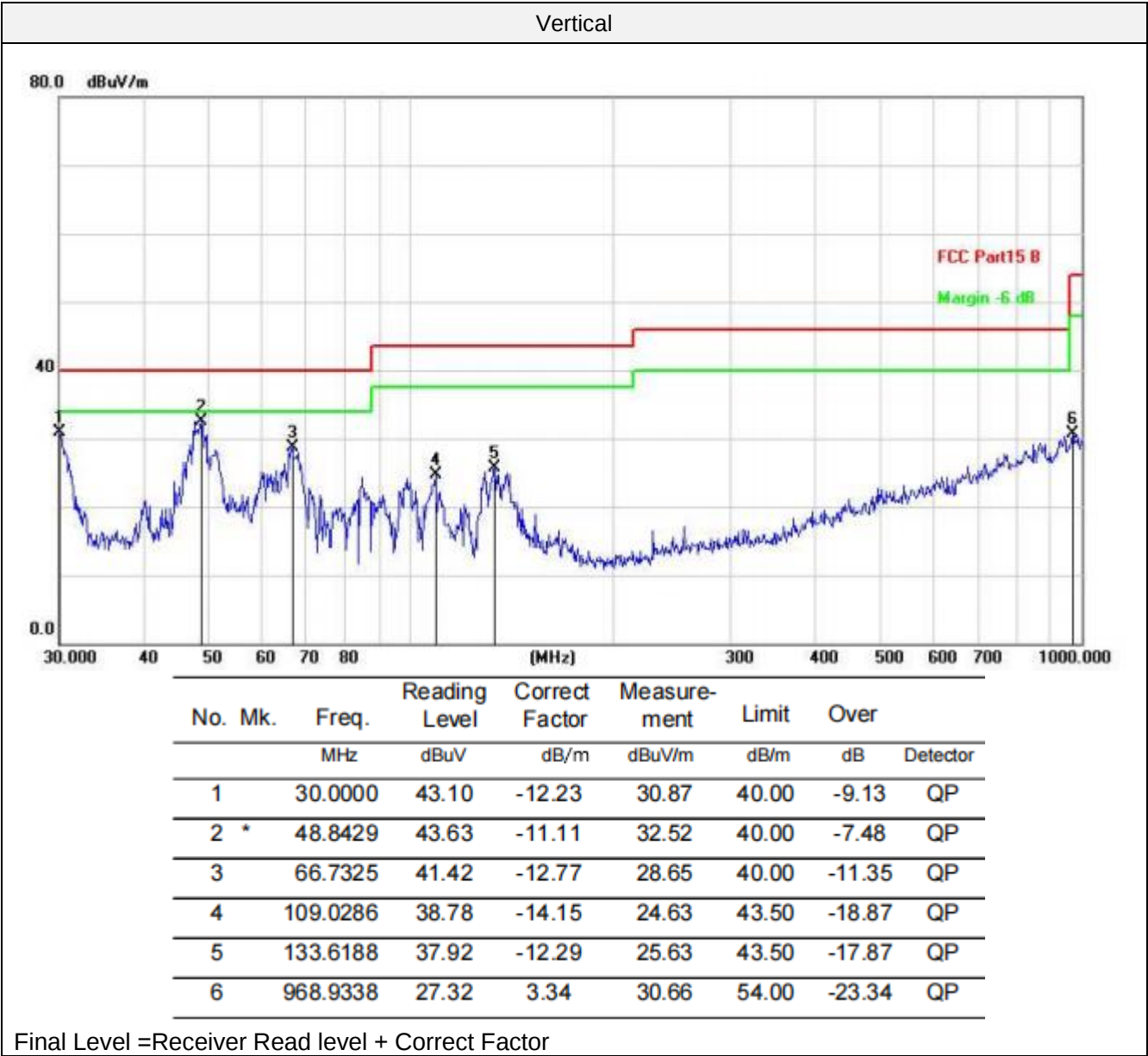
TEST RESULTS

Remark:

- This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
- All 802.11a/n/ac modes have been tested for below 1GHz test, only the worst case 802.11a low channel of U-NII 1 band was recorded.
- All 802.11a/n/ac modes have been tested for above 1GHz test, only the worst case 802.11a was recorded.
- Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

For 30MHz-1GHz





For 1GHz to 40GHz

Note: All 802.11a / 802.11n/ac (HT20) /802.11n/ac (HT40)/ 802.11ac (HT80) modes have been tested for above 1GHz test, only the worst case 802.11a was recorded.

U-NII 1 & 802.11a Mode (above 1GHz)

Tested Channel	Frequency (MHz)	Emission Level (dBuV/m)	Detector Mode	ANT Pol	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre amplifier (dB)	Correction Factor (dB/m)
36.00 (5180MHz)	5150.00	56.48	PK	H	68.20	11.72	47.81	32.8	6.97	31.1	8.67
	5150.00	47.15	AV	H	54.00	6.85	38.48	32.8	6.97	31.1	8.67
	10360.00	51.33	PK	H	68.20	16.87	38.83	38.6	10.05	29.9	18.75
	--	--	--	--	--	--	--	--	--	--	--
40.00 (5200MHz)	10400.00	50.29	PK	H	68.20	17.91	31.94	38.2	10.05	29.9	18.35
	--	--	--	--	--	--	--	--	--	--	--
48.00 (5240MHz)	5350.50	46.80	PK	H	68.20	21.40	37.13	33.2	7.47	31	9.67
	10480.00	51.64	PK	H	68.20	16.56	32.80	38.9	10.04	30.1	18.84
	--	--	--	--	--	--	--	--	--	--	--

Tested Channel	Frequency (MHz)	Emission Level (dBuV/m)	Detector Mode	ANT Pol	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre amplifier (dB)	Correction Factor (dB/m)
36.00 (5180MHz)	5150.00	54.37	PK	V	68.20	13.83	45.70	32.8	6.97	31.1	8.67
	5150.00	47.10	AV	V	54.00	6.90	38.43	32.8	6.97	31.1	8.67
	10360.00	51.26	PK	V	68.20	16.94	32.51	38.6	10.05	29.9	18.75
	--	--	--	--	--	--	--	--	--	--	--
40.00 (5200MHz)	10400.00	50.84	PK	V	68.20	17.36	32.49	38.2	10.05	29.9	18.35
	--	--	--	--	--	--	--	--	--	--	--
48.00 (5240MHz)	5350.50	51.27	PK	V	68.20	16.93	41.60	33.2	7.47	31	9.67
	10480.00	53.96	PK	V	68.20	14.24	35.12	38.9	10.04	30.1	18.84
	--	--	--	--	--	--	--	--	--	--	--

U-NII 3 & 802.11a Mode (above 1GHz)

Tested Channel	Frequency (MHz)	Emission Level (dBuV/m)	Detector Mode	ANT Pol	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre amplifier (dB)	Correction Factor (dB/m)
	5720.00	50.18	PK	H	68.20	18.02	40.81	33	7.47	31.1	9.37
149.00 (5745MHz)	5720.00	47.36	AV	H	54.00	6.64	37.99	33	7.47	31.1	9.37
	11490.00	50.33	PK	H	68.20	17.87	30.61	39.8	10.62	30.7	19.72
	--	--	--	--	--	--	--	--	--	--	--
157.00 (5785MHz)	11570.00	51.04	PK	H	68.20	17.16	31.52	39.6	10.62	30.7	19.52
	--	--	--	--	--	--	--	--	--	--	--
48.00 (5825MHz)	5855.00	50.12	PK	H	68.20	18.08	39.61	33.91	7.7	31.1	10.51
	11650.00	52.74	PK	H	68.20	15.46	33.12	39.6	10.62	30.6	19.62
	--	--	--	--	--	--	--	--	--	--	--

Tested Channel	Frequency (MHz)	Emission Level (dBuV/m)	Detector Mode	ANT Pol	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre amplifier (dB)	Correction Factor (dB/m)
	5720.00	52.07	PK	V	68.20	16.13	42.70	33	7.47	31.1	9.37
149.00 (5745MHz)	5720.00	47.39	AV	V	54.00	6.61	38.02	33	7.47	31.1	9.37
	11490.00	48.55	PK	V	68.20	19.65	28.83	39.8	10.62	30.7	19.72
	--	--	--	--	--	--	--	--	--	--	--
157.00 (5785MHz)	11570.00	50.69	PK	V	68.20	17.51	31.17	39.6	10.62	30.7	19.52
	--	--	--	--	--	--	--	--	--	--	--
48.00 (5825MHz)	5855.00	52.31	PK	V	68.20	15.89	41.80	33.91	7.7	31.1	10.51
	11650.00	51.89	PK	V	68.20	16.31	32.27	39.6	10.62	30.6	19.62
	--	--	--	--	--	--	--	--	--	--	--

REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
3. Margin value = Limit value- Emission level.
4. -- Mean the other emission levels were very low against the limit.
5. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.
6. Worst case data at 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20 ,IEEE 802.11ac VHT40 and IEEE 802.11ac VHT80;

4.3 Maximum Conducted Average Output Power

Limit

For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

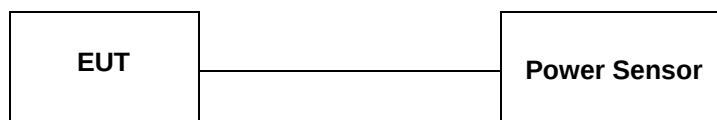
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

Test Configuration



Test Results**U-NII 1****ANT 1**

Type	Channel	Output power (dBm)	Limit (dBm)	Result
802.11a	36	12.76	24.0	Pass
	40	12.91		
	48	13.30		
802.11n(HT20)	36	11.98	24.0	Pass
	40	12.40		
	48	13.96		
802.11n(HT40)	38	13.66	24.0	Pass
	46	13.94		
802.11ac(HT20)	36	12.22	24.0	Pass
	40	12.58		
	48	13.07		
802.11ac(HT40)	38	13.41	24.0	Pass
	46	13.54		
802.11ac(HT80)	42	6.72	24.0	Pass

ANT 2

Type	Channel	Output power (dBm)	Limit (dBm)	Result
802.11a	36	12.26	24.0	Pass
	40	12.93		
	48	13.61		
802.11n(HT20)	36	12.51	24.0	Pass
	40	13.03		
	48	13.64		
802.11n(HT40)	38	13.45	24.0	Pass
	46	13.95		
802.11ac(HT20)	36	12.38	24.0	Pass
	40	12.79		
	48	13.32		
802.11ac(HT40)	38	13.11	24.0	Pass
	46	13.81		
802.11ac(HT80)	42	6.52	24.0	Pass

U-NII 3

ANT 1

Type	Channel	Output power (dBm)	Limit (dBm)	Result
802.11a	149	12.70	30.00	Pass
	157	12.50		
	165	11.83		
802.11n(HT20)	149	12.90	30.00	Pass
	157	12.62		
	165	11.85		
802.11n(HT40)	151	13.09	30.00	Pass
	159	12.80		
802.11ac(HT20)	149	13.13	30.00	Pass
	157	12.98		
	165	12.08		
802.11ac(HT40)	151	13.22	30.00	Pass
	159	12.98		
802.11ac(HT80)	155	10.67	30.00	Pass

ANT 2

Type	Channel	Output power (dBm)	Limit (dBm)	Result
802.11a	149	13.27	30.00	Pass
	157	13.13		
	165	12.47		
802.11n(HT20)	149	13.31	30.00	Pass
	157	13.16		
	165	12.45		
802.11n(HT40)	151	13.35	30.00	Pass
	159	13.10		
802.11ac(HT20)	149	13.24	30.00	Pass
	157	13.12		
	165	12.39		
802.11ac(HT40)	151	13.31	30.00	Pass
	159	13.11		
802.11ac(HT80)	155	10.78	30.00	Pass

For MIMO:

U-NII 1

Type	Channel	Output power (dBm) ANT1	Output power (dBm) ANT2	Output power (dBm) MIMO	Limit (dBm)	Result
802.11n(HT20)	36	11.98	12.51	15.26	24.0	Pass
	40	12.40	13.03	15.74		
	48	13.96	13.64	16.81		
802.11n(HT40)	38	13.66	13.45	16.57	24.0	Pass
	46	13.94	13.95	16.96		
802.11ac(HT20)	36	12.22	12.38	15.31	24.0	Pass
	40	12.58	12.79	15.70		
	48	13.07	13.32	16.21		
802.11ac(HT40)	38	13.41	13.11	16.27	24.0	Pass
	46	13.54	13.81	16.69		
802.11ac(HT80)	42	6.72	6.52	9.63	24.0	Pass

U-NII 3

Type	Channel	Output power (dBm) ANT1	Output power (dBm) ANT2	Output power (dBm) MIMO	Limit (dBm)	Result
802.11n(HT20)	149	12.90	13.31	16.12	30.0	Pass
	157	12.62	13.16	15.91		
	165	11.85	12.45	15.17		
802.11n(HT40)	151	13.09	13.35	16.23	30.0	Pass
	159	12.80	13.10	15.96		
802.11ac(HT20)	149	13.13	13.24	16.20	30.0	Pass
	157	12.98	13.12	16.06		
	165	12.08	12.39	15.25		
802.11ac(HT40)	151	13.22	13.31	16.28	30.0	Pass
	159	12.98	13.11	16.06		
802.11ac(HT80)	155	10.67	10.78	13.74	30.0	Pass

4.4 Power Spectral Density

Limit

(1) For the band 5.15 - 5.25 GHz.

(i) For an outdoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band. ^{note1}

(ii) For an indoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band. ^{note1}

(iii) For fixed point-to-point access points operating in the band 5.15 - 5.25 GHz, transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.

(iv) For mobile and portable client devices in the 5.15 - 5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 MHz band. ^{note1}

(2) For the 5.25 - 5.35 GHz and 5.47 - 5.725 GHz bands, the peak power spectral density shall not exceed 11 dBm in any 1 MHz band. ^{note1}

(3) For the band 5.725 - 5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500 kHz band. ^{note1, note2}

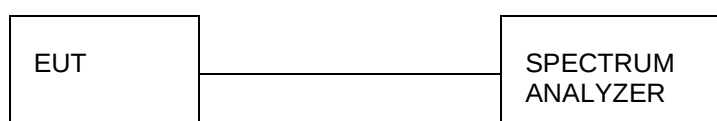
Note1: If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note2: Fixed point - to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 1MHz for U-NII 1, U-NII 2A, U-NII C band and 510KHz for U-NII 3 band.
3. Set the VBW $\geq 3 \times$ RBW.
4. Set the span to encompass the entire EBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum power level.

Test Configuration



Test Results**ANT 1**

Type	Bands	Channel	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
802.11a	U-NII 1	36	1.69	11.0	Pass
		40	1.89		
		48	2.24		
802.11n (HT20)	U-NII 1	36	0.85		
		40	1.16		
		48	2.77		
802.11n (HT40)	U-NII 1	38	-0.74		
		46	-0.56		
802.11ac (HT20)	U-NII 1	36	0.94		
		40	1.26		
		48	1.62		
802.11ac (HT40)	U-NII 1	38	-0.98		
		46	-1.02		
802.11ac (HT80)	U-NII 1	42	-9.73		

Type	Bands	Channel	Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
802.11a	U-NII 3	149	-1.20	30.0	Pass
		157	-1.47		
		165	-1.94		
802.11n (HT20)	U-NII 3	149	-1.27		
		157	-1.70		
		165	-2.26		
802.11n (HT40)	U-NII 3	151	-4.31		
		159	-4.68		
802.11ac (HT20)	U-NII 3	149	-0.82		
		157	-1.25		
		165	-2.16		
802.11ac (HT40)	U-NII 3	151	-4.17		
		159	-4.47		
802.11ac (HT80)	U-NII 3	155	-9.70		

ANT 2

Type	Bands	Channel	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
802.11a	U-NII 1	36	1.26	11.0	Pass
		40	1.92		
		48	2.47		
802.11n (HT20)	U-NII 1	36	1.28		
		40	1.82		
		48	2.25		
802.11n (HT40)	U-NII 1	38	-0.93		
		46	-0.59		
802.11ac (HT20)	U-NII 1	36	1.08		
		40	1.51		
		48	1.98		
802.11ac (HT40)	U-NII 1	38	-1.15		
		46	-0.72		
802.11ac (HT80)	U-NII 1	42	-9.77		

Type	Bands	Channel	Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
802.11a	U-NII 3	149	-0.67	30.0	Pass
		157	-0.98		
		165	-1.49		
802.11n (HT20)	U-NII 3	149	-0.84		
		157	-1.16		
		165	-1.73		
802.11n (HT40)	U-NII 3	151	-4.08		
		159	-4.34		
802.11ac (HT20)	U-NII 3	149	-0.95		
		157	-1.19		
		165	-1.75		
802.11ac (HT40)	U-NII 3	151	-4.13		
		159	-4.29		
802.11ac (HT80)	U-NII 3	155	-9.64		

For MIMO:

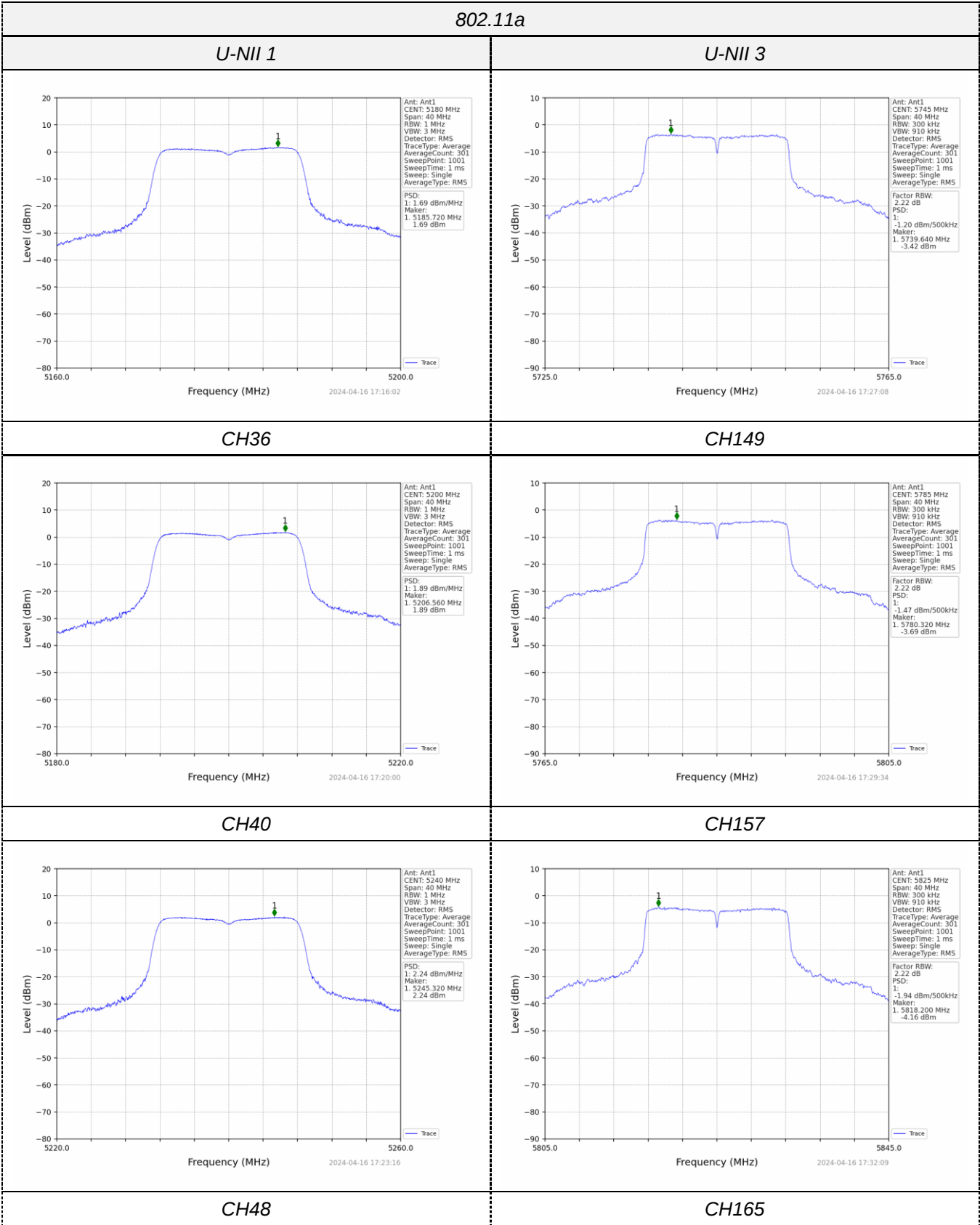
U-NII 1

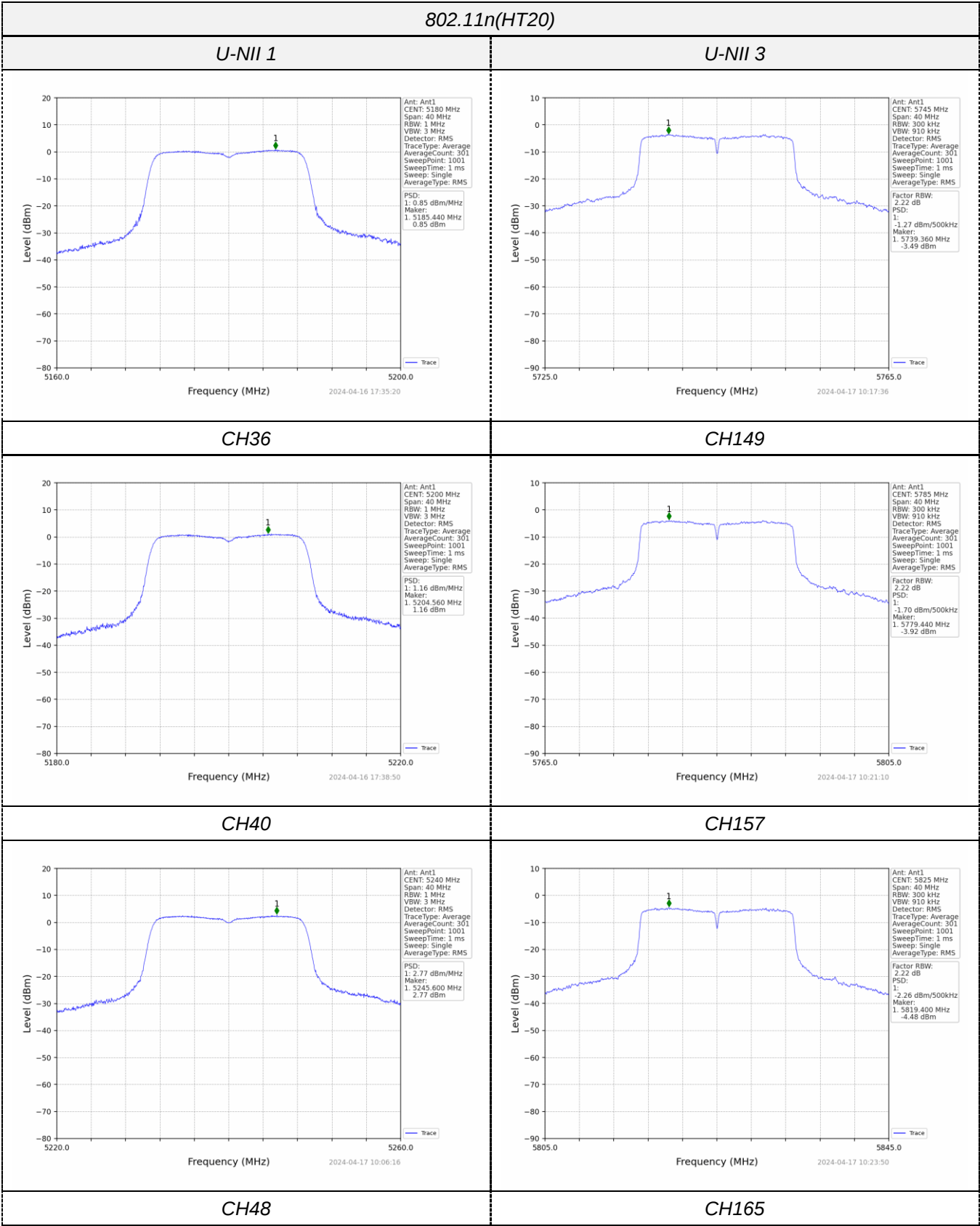
Type	Channel	Power Spectral Density ANT1	Power Spectral Density ANT2	Power Spectral Density MIMO	Limit (dBm)	Result
802.11n(HT20)	36	0.85	1.28	4.08	11.0	PASS
	40	1.16	1.82	4.51		
	48	2.77	2.25	5.53		
802.11n(HT40)	38	-0.74	-0.93	2.18		
	46	-0.56	-0.59	2.44		
802.11ac(HT20)	36	0.94	1.08	4.02		
	40	1.26	1.51	4.40		
	48	1.62	1.98	4.81		
802.11ac(HT40)	38	-0.98	-1.15	1.95		
	46	-1.02	-0.72	2.14		
802.11ac(HT80)	42	-9.73	-9.77	-6.74		

U-NII 3

Type	Channel	Power Spectral Density (dBm/500KHz) ANT1	Power Spectral Density (dBm/500KHz) ANT2	Power Spectral Density (dBm/500KHz) MIMO	Limit (dBm)	Result
802.11n(HT20)	149	-1.27	-0.84	1.96	30.0	Pass
	157	-1.70	-1.16	1.59		
	165	-2.26	-1.73	1.02		
802.11n(HT40)	151	-4.31	-4.08	-1.18		
	159	-4.68	-4.34	-1.50		
802.11ac(HT20)	149	-0.82	-0.95	2.13		
	157	-1.25	-1.19	1.79		
	165	-2.16	-1.75	1.06		
802.11ac(HT40)	151	-4.17	-4.13	-1.14		
	159	-4.47	-4.29	-1.37		
802.11ac(HT80)	155	-9.70	-9.64	-6.66		

Test plot as follows
ANT 1





CH149

Ant: Ant1
CENT: 5785 MHz
Span: 40 MHz
RBW: 300 kHz
VSW: 910 kHz
Detector: RMS
TraceType: Average
AverageCount: 301
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Single
AverageType: RMS
Factor RBW:
2.22 dB
PSD:
1: -1.70 dBm/500kHz
Marker:
1: 5779.440 MHz
-3.92 dBm

CH40

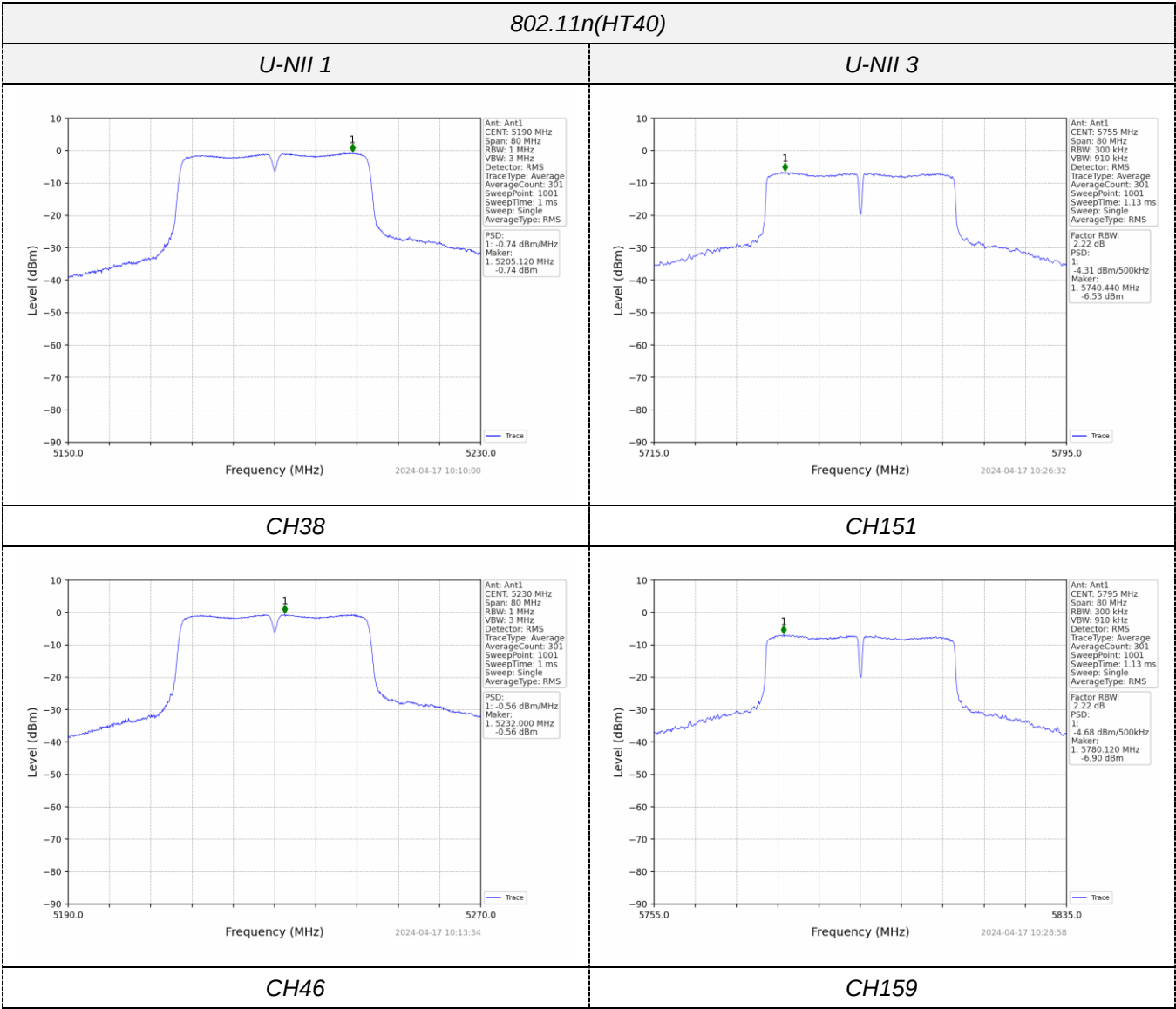
Ant: Ant1
CENT: 5240 MHz
Span: 40 MHz
RBW: 1 MHz
VSW: 3 MHz
Detector: RMS
TraceType: Average
AverageCount: 301
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Single
AverageType: RMS
PSD:
1: 2.77 dBm/MHz
Marker:
1: 5245.600 MHz
2.77 dBm

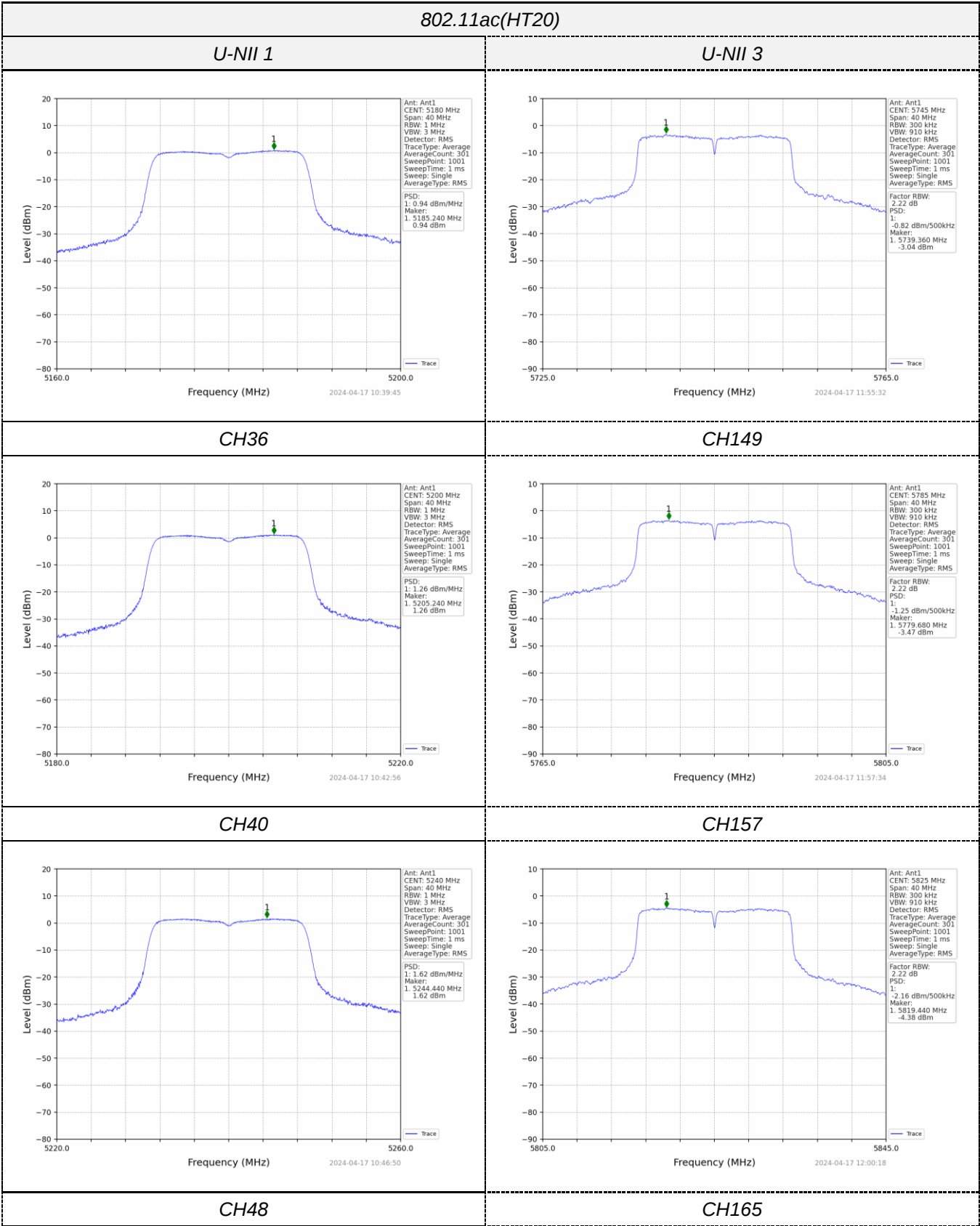
CH157

Ant: Ant1
CENT: 5825 MHz
Span: 40 MHz
RBW: 300 kHz
VSW: 910 kHz
Detector: RMS
TraceType: Average
AverageCount: 301
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Single
AverageType: RMS
Factor RBW:
2.22 dB
PSD:
1: -2.26 dBm/500kHz
Marker:
1: 5819.400 MHz
-4.48 dBm

CH48

CH165





CH40

Ant: Ant1
CENT: 5240 MHz
Span: 40 MHz
RBW: 1 MHz
VBW: 3 MHz
Detector: RMS
TraceType: Average
AverageCount: 301
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Single
AverageType: RMS

PSD:
1: 1.62 dBm/MHz
Maker:
1: 5244.440 MHz
1.62 dBm

Level (dBm)

Frequency (MHz)

2024-04-17 10:46:50

CH157

Ant: Ant1
CENT: 5825 MHz
Span: 40 MHz
RBW: 300 kHz
VBW: 910 kHz
Detector: RMS
TraceType: Average
AverageCount: 301
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Single
AverageType: RMS

Factor RBW:
2.22 dB
PSD:
1:
-2.16 dBm/500kHz
Maker:
1: 5819.440 MHz
-4.38 dBm

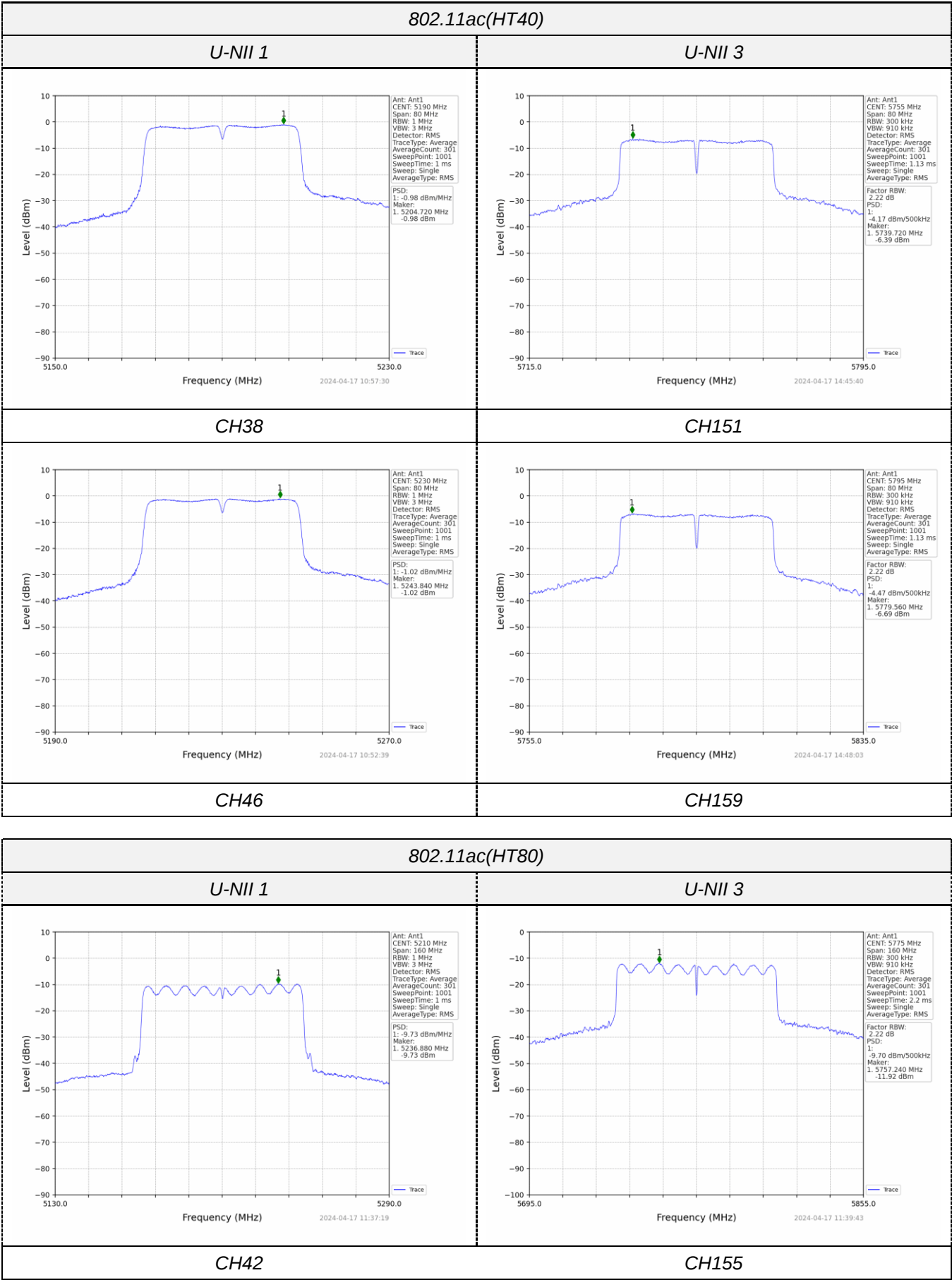
Level (dBm)

Frequency (MHz)

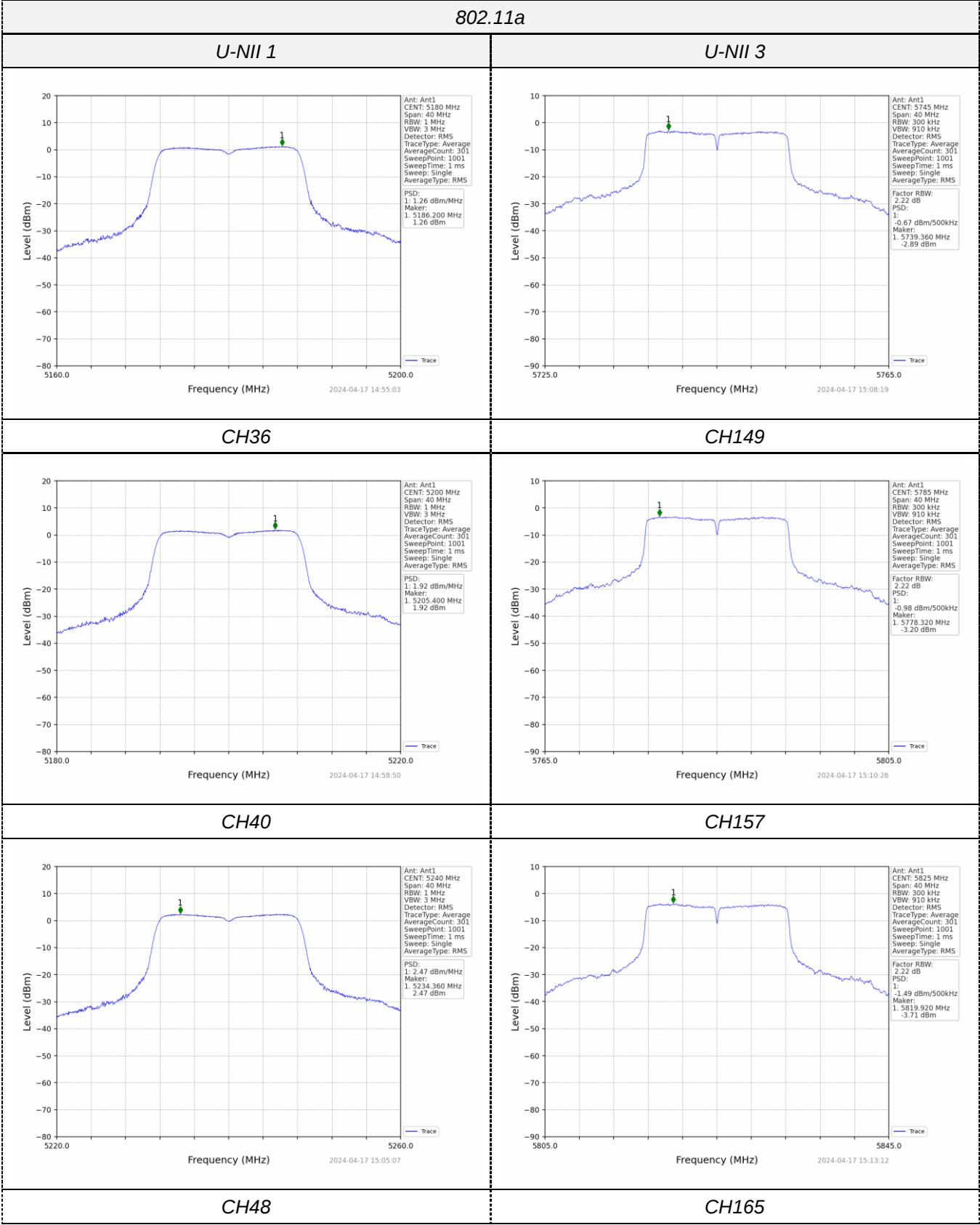
2024-04-17 12:00:18

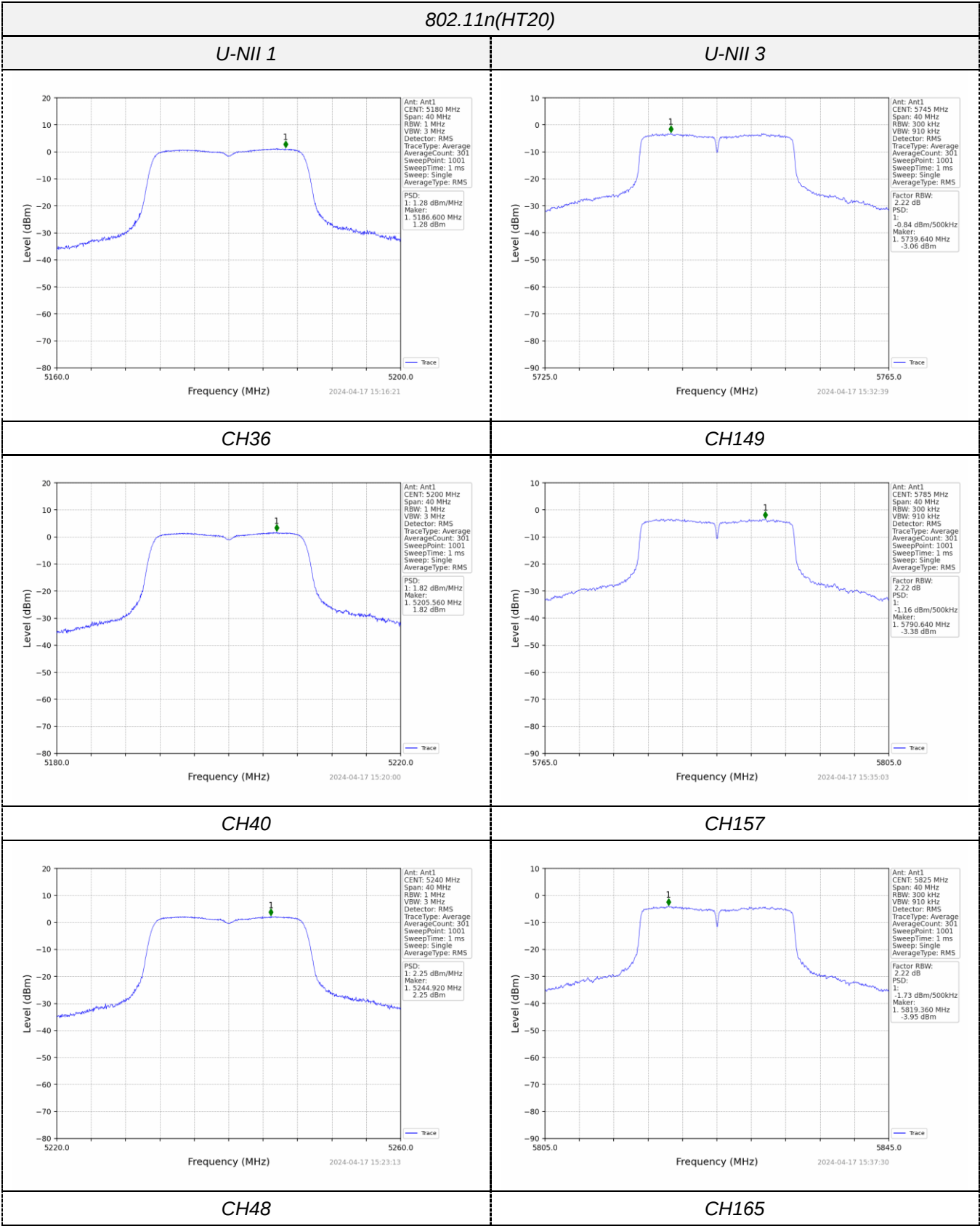
CH48

CH165



ANT 2





CH36

Ant: Ant1
CENT: 5200 MHz
Span: 40 MHz
RBW: 1 MHz
VSW: 3 MHz
Detector: RMS
TraceType: Average
AverageCount: 301
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Single
AverageType: RMS

PSD:
1: 1.182 dBm/MHz
Maker:
1.5205.560 MHz
1.82 dBm

CH149

CH40

Ant: Ant1
CENT: 5240 MHz
Span: 40 MHz
RBW: 1 MHz
VSW: 3 MHz
Detector: RMS
TraceType: Average
AverageCount: 301
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Single
AverageType: RMS

PSD:
1: 1.225 dBm/MHz
Maker:
1.5244.920 MHz
2.25 dBm

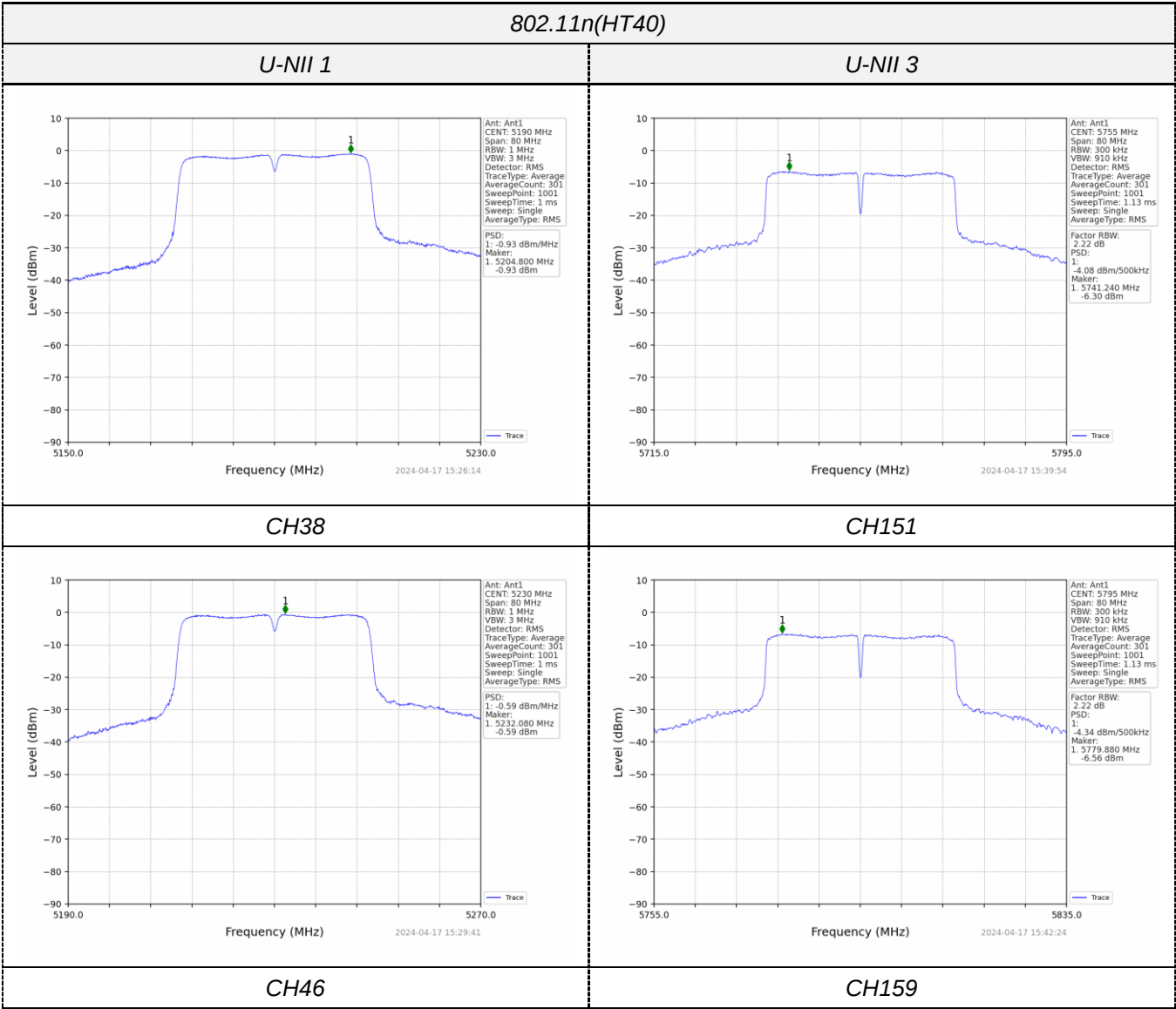
CH157

CH48

Ant: Ant1
CENT: 5260 MHz
Span: 40 MHz
RBW: 1 MHz
VSW: 3 MHz
Detector: RMS
TraceType: Average
AverageCount: 301
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Single
AverageType: RMS

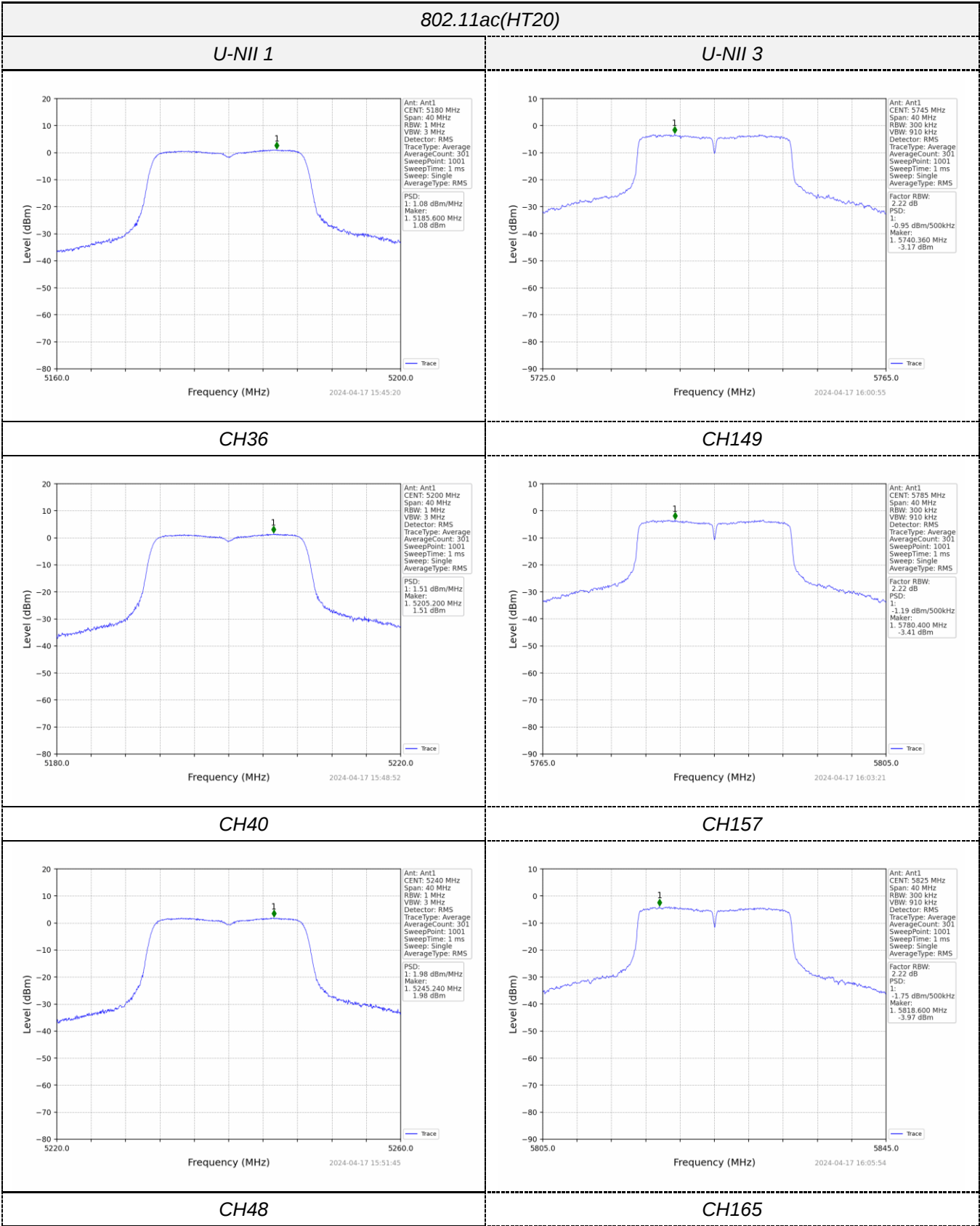
PSD:
1: 1.225 dBm/MHz
Maker:
1.5244.920 MHz
2.25 dBm

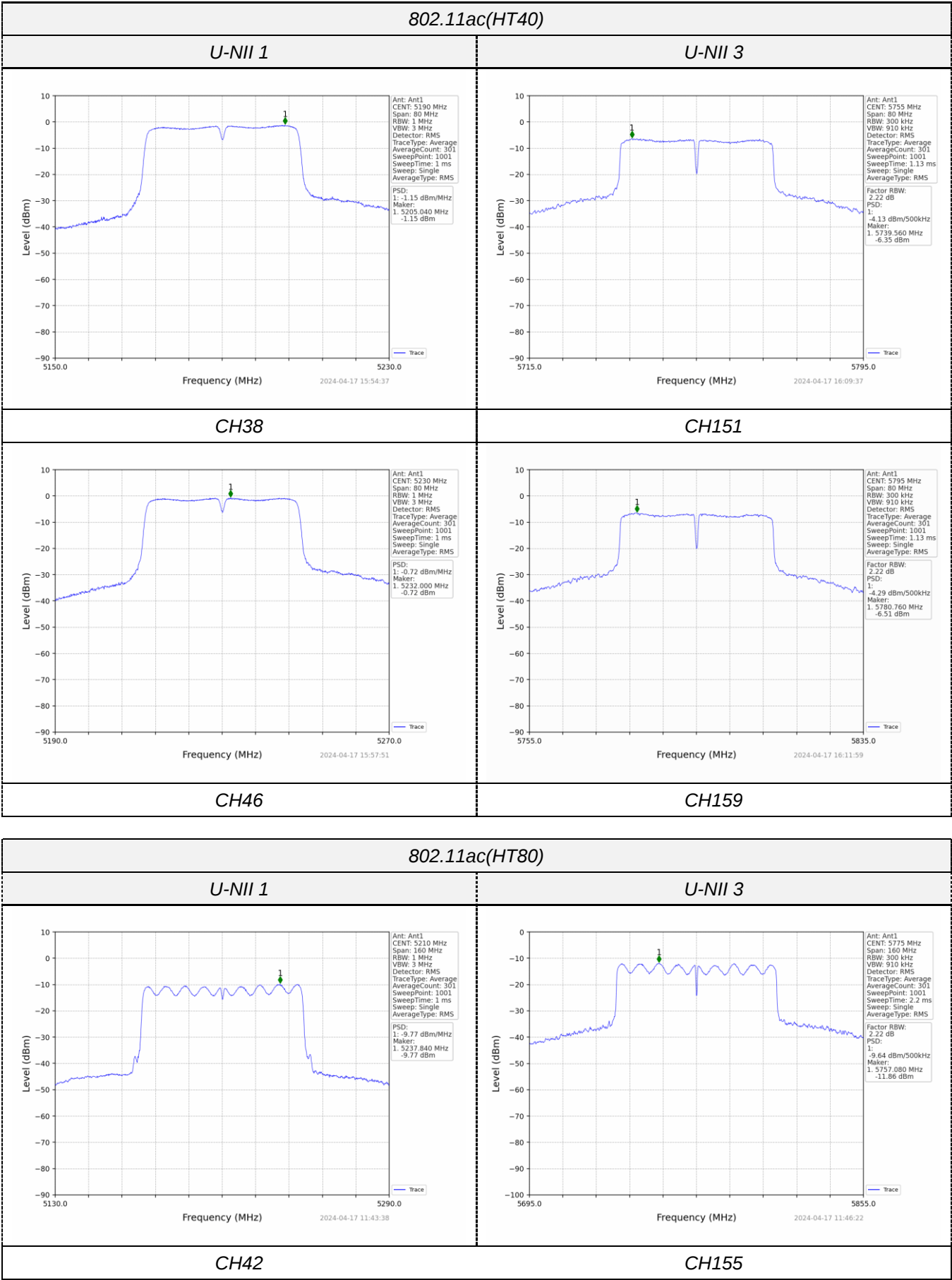
CH165



CH46

CH159





CH46

Ant: Ant1
CENT: 5210 MHz
Span: 160 MHz
RBW: 1 MHz
VBW: 3 MHz
Detector: RMS
TraceType: Average
AverageCount: 301
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Single
AverageType: RMS

PSD:
1: -9.77 dBm/MHz
Maker:
1: 5237.840 MHz
-9.77 dBm

2024-04-17 11:43:38

CH159

Ant: Ant1
CENT: 5775 MHz
Span: 160 MHz
RBW: 300 kHz
VBW: 910 kHz
Detector: RMS
TraceType: Average
AverageCount: 301
SweepPoint: 1001
SweepTime: 2.2 ms
Sweep: Single
AverageType: RMS

Factor RBW:
2.22 dB
PSD:
1: -9.64 dBm/500kHz
Maker:
1: 5757.080 MHz
-11.86 dBm

2024-04-17 11:46:22

802.11ac(HT80)

U-NII 1

Ant: Ant1
CENT: 5210 MHz
Span: 160 MHz
RBW: 1 MHz
VBW: 3 MHz
Detector: RMS
TraceType: Average
AverageCount: 301
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Single
AverageType: RMS

PSD:
1: -9.77 dBm/MHz
Maker:
1: 5237.840 MHz
-9.77 dBm

2024-04-17 11:43:38

U-NII 3

Ant: Ant1
CENT: 5775 MHz
Span: 160 MHz
RBW: 300 kHz
VBW: 910 kHz
Detector: RMS
TraceType: Average
AverageCount: 301
SweepPoint: 1001
SweepTime: 2.2 ms
Sweep: Single
AverageType: RMS

Factor RBW:
2.22 dB
PSD:
1: -9.64 dBm/500kHz
Maker:
1: 5757.080 MHz
-11.86 dBm

2024-04-17 11:46:22

CH42

Ant: Ant1
CENT: 5210 MHz
Span: 160 MHz
RBW: 1 MHz
VBW: 3 MHz
Detector: RMS
TraceType: Average
AverageCount: 301
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Single
AverageType: RMS

PSD:
1: -9.77 dBm/MHz
Maker:
1: 5237.840 MHz
-9.77 dBm

2024-04-17 11:43:38

CH155

Ant: Ant1
CENT: 5775 MHz
Span: 160 MHz
RBW: 300 kHz
VBW: 910 kHz
Detector: RMS
TraceType: Average
AverageCount: 301
SweepPoint: 1001
SweepTime: 2.2 ms
Sweep: Single
AverageType: RMS

Factor RBW:
2.22 dB
PSD:
1: -9.64 dBm/500kHz
Maker:
1: 5757.080 MHz
-11.86 dBm

2024-04-17 11:46:22

4.5 Emission Bandwidth (26dB Bandwidth)

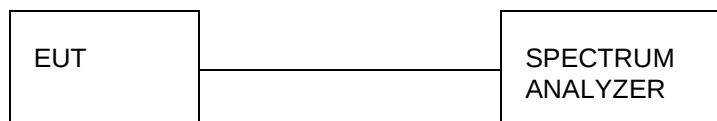
Limit

N/A

Test Procedure

1. Set resolution bandwidth (RBW) = approximately 1 % of the EBW.
2. Set the video bandwidth (VBW) > RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW / EBW ratio is approximately 1 %.

Test Configuration



Test Results

ANT 1

Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	31.484	N/A	Pass
		40	31.037		
		48	29.521		
802.11n(HT20)	U-NII 1	36	28.533		
		40	27.068		
		48	30.453		
802.11n(HT40)	U-NII 1	38	65.373		
		46	64.945		
802.11ac(HT20)	U-NII 1	36	33.198		
		40	28.800		
		48	25.528		
802.11ac(HT40)	U-NII 1	38	64.765		
		46	64.975		
802.11ac(HT80)	U-NII 1	42	83.689		

ANT 2

Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	28.425	N/A	Pass
		40	30.594		
		48	28.430		
802.11n(HT20)	U-NII 1	36	29.445		
		40	30.383		
		48	29.375		
802.11n(HT40)	U-NII 1	38	64.901		
		46	60.511		
802.11ac(HT20)	U-NII 1	36	29.021		
		40	26.418		
		48	23.424		
802.11ac(HT40)	U-NII 1	38	57.604		
		46	65.019		
802.11ac(HT80)	U-NII 1	42	83.753		

Test plot as follows:

ANT 1

