



427 West 12800 South
Draper, UT 84020

Test Report Certification

FCC ID	SWX-LTULRR
Equipment Under Test	LTU-LR
Test Report Serial Number	TR3686_01
Date of Test(s)	October 30th, - November 5, 2019
Report Issue Date	11/15/2019

Test Specification	Applicant
47 CFR FCC Part 15, Subpart E	Ubiquiti Inc. 685 Third Avenue New York, NY 10019 U.S.A.



NVLAP LAB CODE 600241-0

Certification of Engineering Report

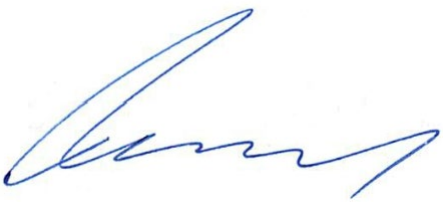
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Applicant	Ubiquiti Inc.
Manufacturer	Ubiquiti Inc.
Brand Name	LTU
Model Number	LTU-LR
FCC ID	SWX-LTULRR

On this 15th day of November 2019, I individually and for Unified Compliance Laboratory certify that the statements made in this engineering report are true, complete and correct to the best of my knowledge and are made in good faith.

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Unified Compliance Laboratory



Written By: Clay Allred



Reviewed By: Alex Macon

Revision History		
Revision	Description	Date
01	Original Report Release	11/15/2019
02	Corrected Table 12 and Table	

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1 Client Information

1.1 Applicant

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Mark Feil
Title	Compliance Manager

1.2 Manufacturer

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Mark Feil
Title	Compliance Manager

2 Equipment Under Test (EUT)

2.1 Identification of EUT

Brand Name	LTU
Model Number	LTU-LR
Serial Number	N/A
Dimensions (cm)	51.2 x 38.6 x 25.8

2.2 Description of EUT

The LTU-LR is a fixed point-to-point or point to multiple point transceiver, intended for outdoor use, operating in the UNII-1, UNII-2A/2C and UNII-3 frequency bands. A Bluetooth LE transceiver is included for device management. An Ethernet port is used for data transfer and to provide power using a POE-24V-5X-HD POE supply.

The UNII transceiver uses 5 modulation bandwidths with channels spaced 5 MHz apart. Modulation bandwidths of 10 MHz, 20 MHz, 30 MHz, 40 MHz, and 50 MHz are used. There are 2 transmit chains, one for vertically polarized and one for horizontally polarized transmission. The table below shows the channels used in each band with the different modulation bandwidths and maximum power settings. This report covers the circuitry of the device subject to FCC Part 15, Subpart E. The circuitry of the device subject to FCC Part 15 Subpart B was found to be compliant.

Band	Modulation Bandwidth	Frequency (MHz)	Maximum Power Setting
UNII-2A	10 MHz	5255, 5260, 5265, 5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310, 5315, 5320, 5325, 5330, 5335, 5340	TP23
	20 MHz	5260, 5265, 5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310, 5315, 5320, 5325, 5330, 5335	TP24
	30 MHz	5265, 5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310, 5315, 5320, 5325, 5330	TP24
	40 MHz	5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310, 5315, 5320, 5325	TP25
	50 MHz	5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310, 5315, 5320	TP20

Table 1: UNII-2A Channel Setting

Band	Modulation Bandwidth	Frequency (MHz)	Maximum Power Setting
UNII-2C	10 MHz	5480, 5485, 5490, 5495, 5500, 5505, 5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600, 5605, 5610, 5615, 5620, 5625, 5630, 5635, 5640, 5645, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700, 5705, 5710, 5715	TP22
	20 MHz	5485, 5490, 5495, 5500, 5505, 5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600, 5605, 5610, 5615, 5620, 5625, 5630, 5635, 5640, 5645, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700, 5705, 5710	TP23
	30 MHz	5490, 5495, 5500, 5505, 5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600, 5605, 5610, 5615, 5620, 5625, 5630, 5635, 5640, 5645, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700, 5705	TP23
	40 MHz	5495, 5500, 5505, 5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600, 5605, 5610, 5615, 5620, 5625, 5630, 5635, 5640, 5645, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700	TP24
	50 MHz	5500, 5505, 5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600, 5605, 5610, 5615, 5620, 5625, 5630, 5635, 5640, 5645, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695	TP24

Table 2: UNII-2C Channel Setting

2.3 EUT and Support Equipment

The EUT and support equipment used during the test are listed below.

Brand Name Model Number Serial Number	Description	Name of Interface Ports / Interface Cables
BN: LTU MN: LTU-LR SN: N/A	Point-to-Point / Point-to-Multi-Point Transceiver	PoE – Shielded RJ-45 Input (4 meters) See Section 2.4 (Note 2)
BN: Ubiquiti In. MN: POE-24V-5X-HD SN: N/A	PoE Power supply	See Section 2.4
BN: Dell MN: XPS SN: N/A	Laptop Computer	Ethernet Non-Shielded Cat 5e to PoE PSU

Notes: (1) EUT

(2) Interface port connected to EUT (See Section 2.4)

The support equipment listed above was not modified in order to achieve compliance with this standard.

2.4 Interface Ports on EUT

Name of Ports	No. of Ports Fitted to EUT	Cable Description/Length
LTU-LR PoE/Data in	1	Shielded Cat 5e cable (4 meters)
PoE PSU AC mains	1	3 Conductor power cord (40 cm)
PoE PSU PoE/Data out	1	Shielded Cat 5e cable (8 meters)
PoE PSU Data in	1	Non-shielded Cat 5e cable (1 meter)

2.5 Operating Environment

Power Supply	120 VAC
AC Mains Frequency	60 Hz
Temperature	22.9 C
Humidity	21.0%
Barometric Pressure	12.5 psi

2.6 Operating Modes

The LTU-LR was tested while the UNII transceiver was in a constant transmit mode at the upper, middle, and lower channels for each modulation bandwidth and frequency band. The Bluetooth LE transceiver was active while testing the UNII-2 transceiver to assess any transmitter interactions.

2.7 EUT Exercise Software

Ubiquiti test software and firmware were used to control the transceivers of the EUT. (ART)

2.8 Block Diagram of Test Configuration

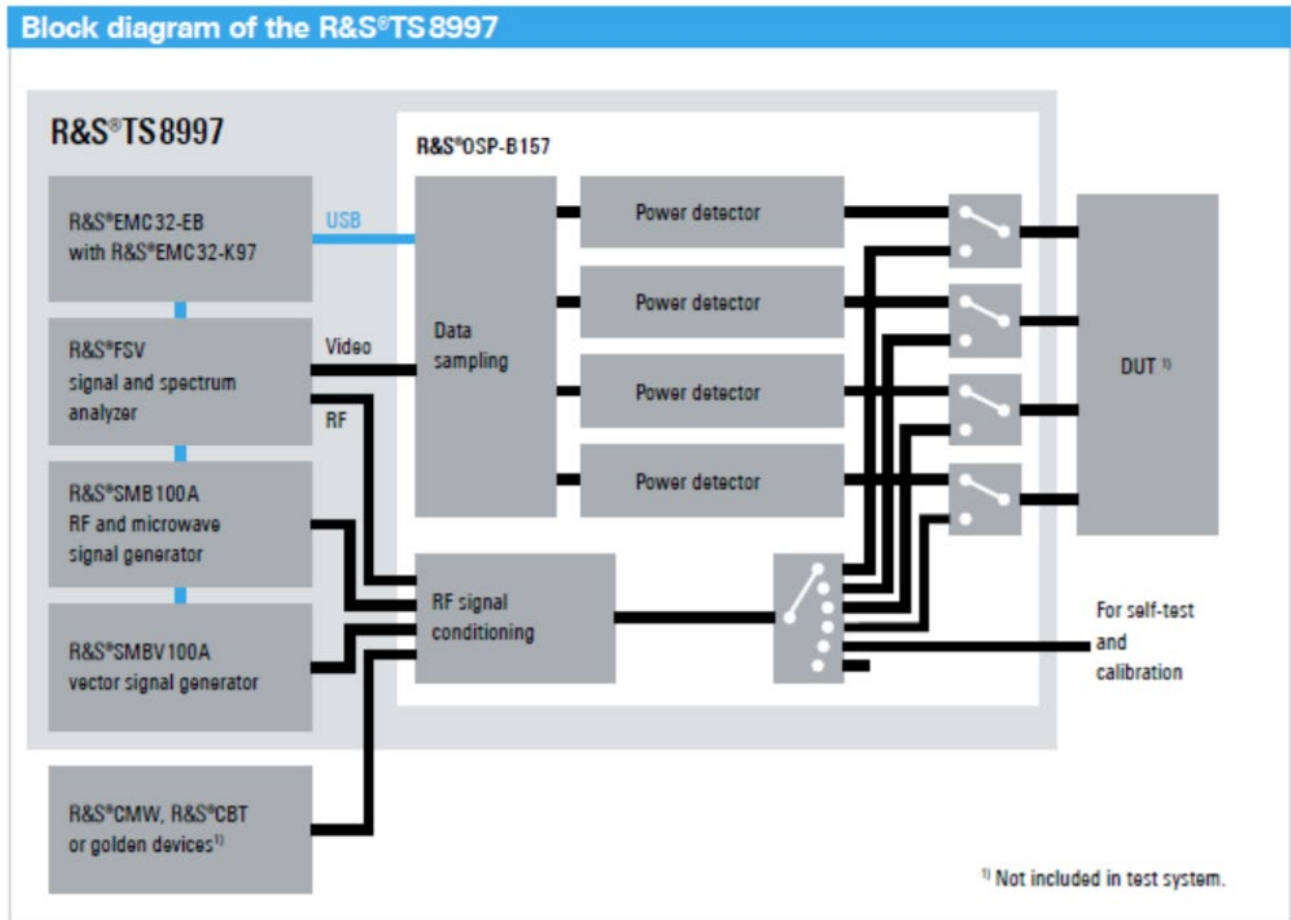


Diagram 1: Test Configuration Block Diagram

2.9 Modification Incorporated/Special Accessories on EUT

There were no modifications made to the EUT during testing to comply with the specification.

2.10 Deviation, Opinions Additional Information or Interpretations from Test Standard

There were no deviations, opinions, additional information or interpretations from the test specification.

3 Test Specification, Method and Procedures

3.1 Test Specification

Title	47 CFR FCC Part 15, Subpart E, Section 15.407 Limits and methods of measurement of radio interference characteristics of Unlicensed National Information Infrastructure Devices
Purpose of Test	The tests were performed to demonstrate initial compliance

3.2 Methods & Procedures

3.2.1 47 CFR FCC Part 15 Section 15.407

See test standard for details.

3.3 FCC Part 15, Subpart E

3.3.1 Summary of Tests

FCC Section	IC Section	Environmental Phenomena	Frequency Range (MHZ)	Result
15.407(a)	N/A	Antenna requirements	Structural Requirement	Compliant
15.407(b)	RSS-Gen	Conducted Disturbance at Mains Port	0.15 to 30	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Bandwidth Requirement	5150 to 5875	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Peak Output Power	5150 to 5875	Compliant
15.407(b)	RSS-247 §6.2.2, §6.2.3	Antenna Conducted Spurious Emissions	0.009 to 40000	Compliant
15.407(b)	RSS-247 §6.2.2, §6.2.3	Radiated Spurious Emissions	0.009 to 40000	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Peak Power Spectral Density	5150 to 5875	Compliant
15.407 (h)	RSS-247 §6.3	DFS Requirements	5150 to 5875	Compliant

The testing was performed according to the procedures in ANSI C63.10-2013, KDB 789033, KDB 905462 and 47 CFR Part 15.

3.4 Results

In the configuration tested, the EUT complied with the requirements of the specification.

3.5 Test Location

Testing was performed at the Unified Compliance Laboratory 3-Meter chamber located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until 30 June 2020.

4 Test Equipment

4.1 Conducted Emissions at Mains Ports

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	AFJ	FFT3010	UCL-2500	12/14/2018	4/17/2020
Transient Limiter	Com-Power	LIT-930A	UCL-2496	2/11/2019	2/11/2020
LISN	AFJ	LS16C/10	UCL-2512	12/14/2018	4/17/2020
Cat6 ISN	Teseq	ISN T8-Cat6	UCL-2971	2/11/2019	5/21/2020
ISN	Teseq	ISN T800	UCL-2974	2/19/2019	5/21/2020
LISN	Com-Power	LIN-120C	UCL-2612	2/11/2019	2/11/2020
AC Power Source	Laplace Instruments	AC1000A	UCL-2857	N/A	N/A
Monitoring Probe	Teseq	MD 4070A	UCL-2980	3/16/2019	5/21/2020
Test Software	UCL	Revision 1	UCL-3107	N/A	N/A

Table 3: List of equipment used for Conducted Emissions Testing at Mains Port

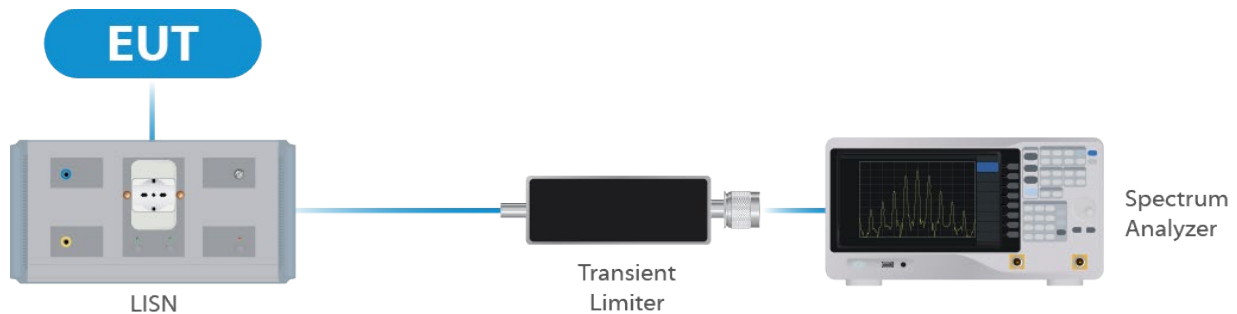


Figure 1: Conducted Emissions Test

4.2 Direct Connect at the Antenna Port Tests

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
Spectrum Analyzer	R&S	FSV40	UCL-2861	06/12/2019	06/12/2020
Signal Generator	R&S	SMB100A	UCL-2864	N/A	N/A
Vector Signal Generator	R&S	SMBV100A	UCL-2873	N/A	N/A
Switch Extension	R&S	OSP-B157WX	UCL-2867	06/13/2019	06/13/2020
Switch Extension	R&S	OSP-150W	UCL-2870	06/14/2019	06/14/2020

Table 4: List of equipment used for Direct Connect at the Antenna Port

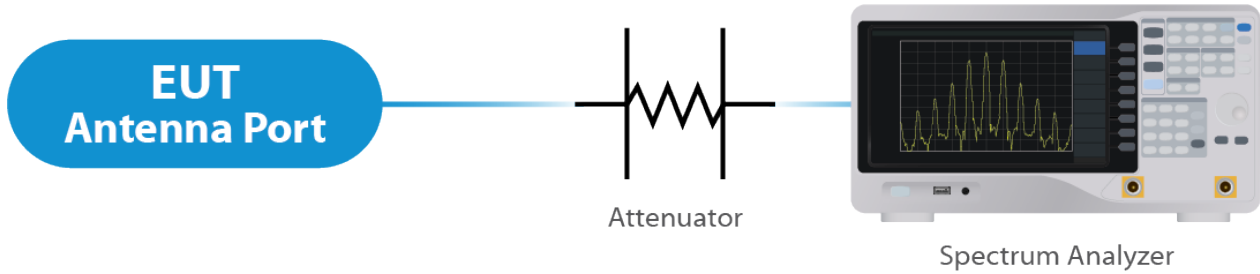


Figure 2: Direct Connect at the Antenna Port Test

4.3 Radiated Emissions

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	Keysight	N9038A	UCL-2778	11/26/2018	5/3/2020
Pre-Amplifier	Sonoma Instruments	310N	UCL-2889	9/13/2018	5/16/2020
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	4/11/2019	6/3/2020
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	4/11/2019	6/3/2020
15 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	2/15/2017	4/16/2020
18 – 40 GHz Amplifier	Scwarzbeck	BBV 9721	UCL-2490	4/1/2019	4/1/2020
0.5 – 18 GHz Amplifier	Scwarzbeck	BBV 9718C	UCL-2493	4/1/2019	4/1/2020
Loop Antenna	Com-Power	AL-130R	UCL-2596	10/26/2018	4/23/2020
Test Software	UCL	Revision 1	UCL-3108	N/A	N/A

Table 5: List of equipment used for Radiated Emissions

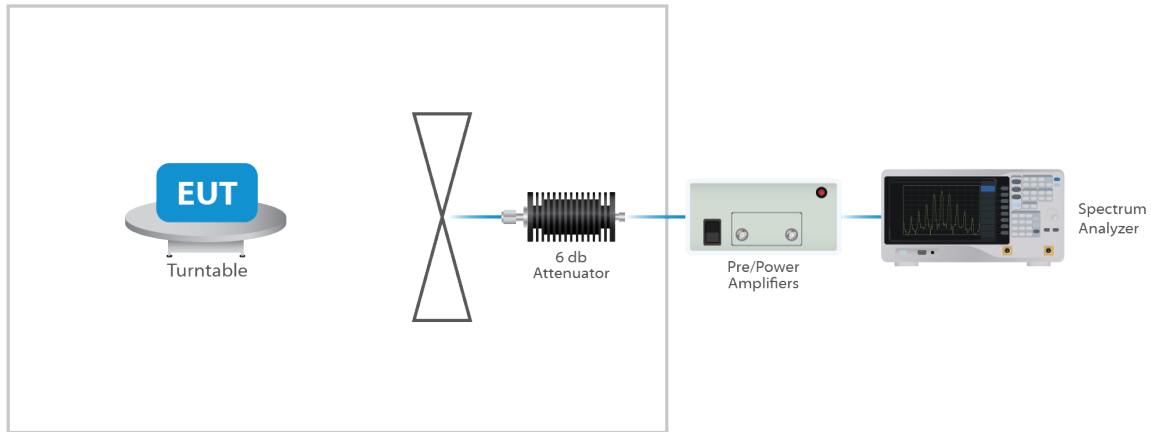


Figure 3: Radiated Emissions Test

4.4 Equipment Calibration

All applicable equipment is calibrated using either an independent calibration laboratory or Unified Compliance Laboratory personnel at intervals defined in ANSI C63.4:2014 following outlined calibration procedures. All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request.

4.5 Measurement Uncertainty

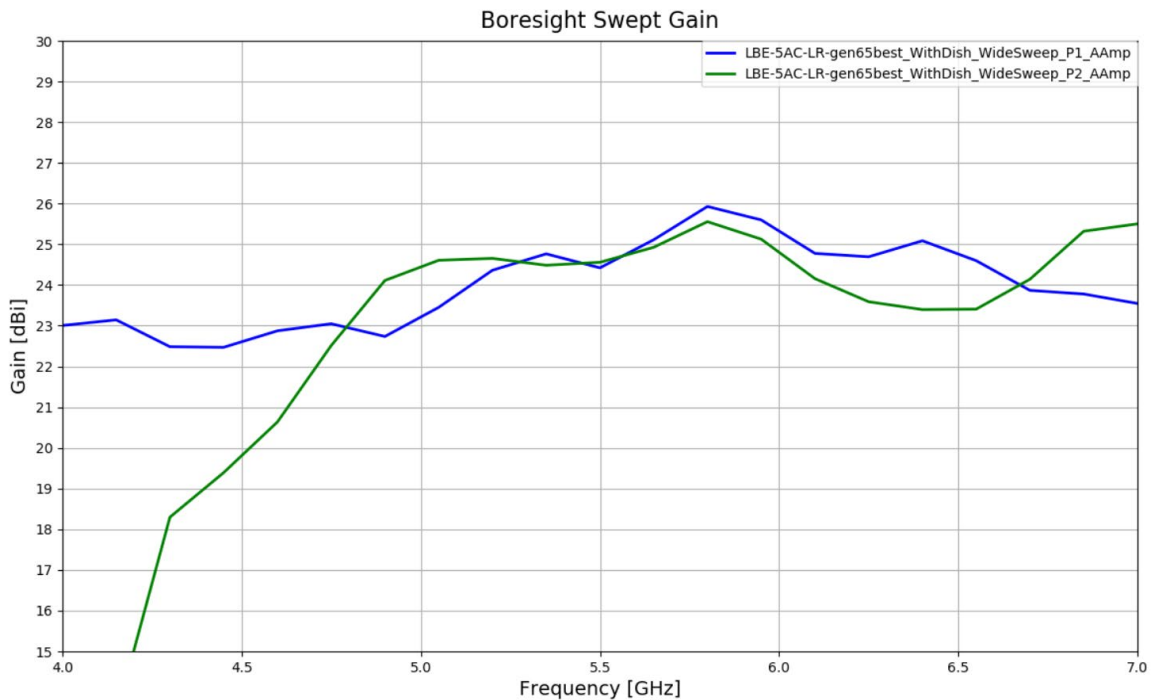
Test	Uncertainty (\pm dB)	Confidence (%)
Conducted Emissions	1.44	95
Radiated Emissions (9 kHz to 30 MHz)	2.50	95
Radiated Emissions (30 MHz to 1 GHz)	3.95	95
Radiated Emissions (1 GHz to 18 GHz)	5.56	95
Radiated Emissions (18 GHz to 40 GHz)	5.16	95
Direct Connect Tests	K Factor	Value
Emissions Bandwidth	2	2.0%
Output Power	2	1.0 dB
Peak Power Spectral Density	2	1.3 dB
Band Edge	2	0.8 dB
Transmitter Spurious Emissions	2	1.8 dB

Table 6: Measurement Uncertainty

5 Test Results

5.1 §15.203 Antenna Requirements

The EUT uses an Omni and an optional accessory Dish antenna. The Maximum gain of the Omni antenna is 3 dBi and the optional Dish antenna gain curve is in the graph below. The antennas are not user replaceable.

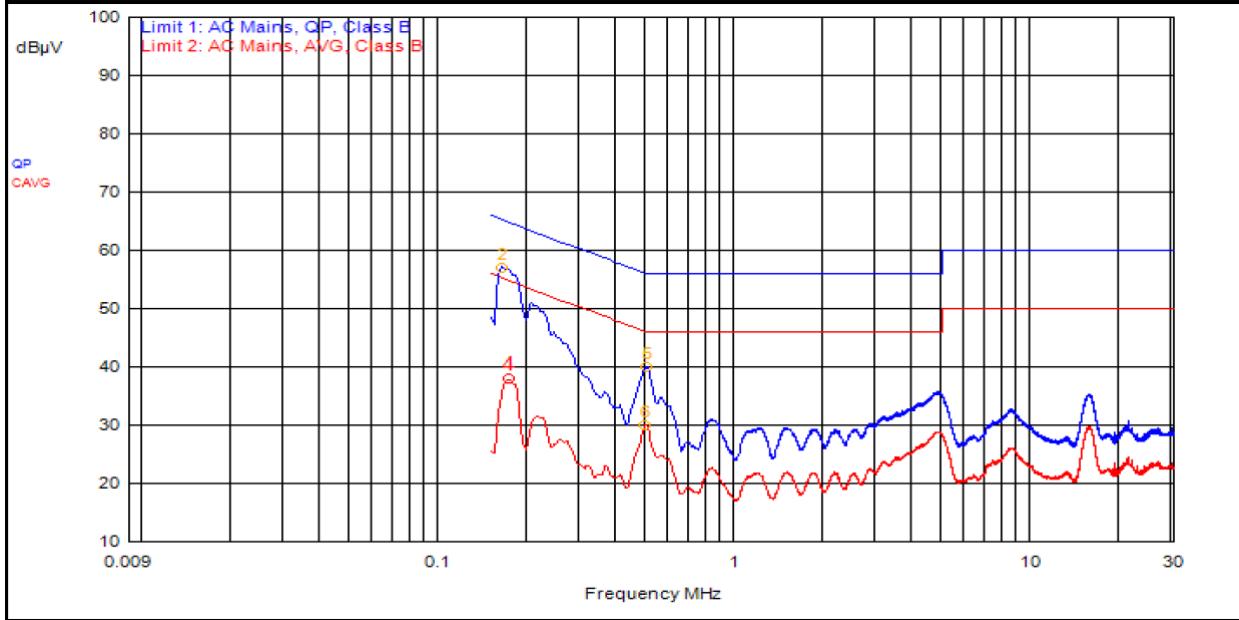


Graph 1: Dish Antenna Gain Curve

Results

The EUT complied with the specification

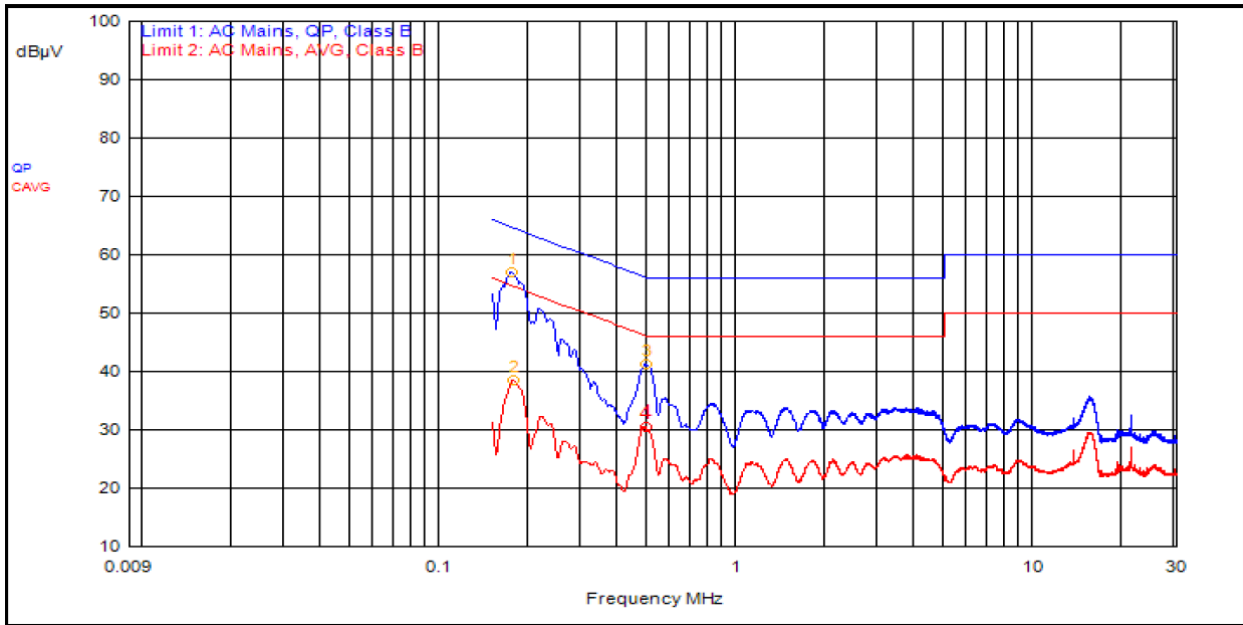
5.2 Conducted Emissions at Mains Ports Data – UNII-2A/UNII-2C



Graph 2: Line Conductor

Frequency (MHZ)	Line	Detector	Receiver Reading (dBµV)	Probe / LISN (dB)	Cable / Atten Factor (dB)	Meas. Level (dBµV)	Limit (dBµV/m)	Margin (dB)
0.162	Line 1	QP	44.9	12.2	0.0	57.1	65.4	-8.2
0.501	Line 1	QP	27.6	12.3	0.0	39.9	56.0	-16.1
0.495	Line 1	AVG	17.7	12.3	0.0	29.9	46.1	-16.1
0.171	Line 1	AVG	25.6	12.2	0.0	37.9	54.9	-17.1

Table 7: Line Conductor


Graph 3: Neutral Conductor

Frequency (MHZ)	Line	Detector	Receiver Reading (dBµV)	Probe / LISN (dB)	Cable / Atten Factor (dB)	Meas. Level (dBµV)	Limit (dBµV/m)	Margin (dB)
0.174	Neut	QP	44.7	12.2	0.0	57.0	64.8	-7.8
0.492	Neut	QP	29.0	12.3	0.0	41.2	56.1	-14.9
0.489	Neut	AVG	18.3	12.3	0.0	30.6	46.2	-15.6
0.177	Neut	AVG	26.3	12.2	0.0	38.6	54.6	-16.0

Table 8: Neutral Conductor
Result

The EUT complied with the specification limit.

5.1 §15.403(i) 26 dB Emissions Bandwidth – UNII-2A

Nominal BW (MHz)	Frequency (MHz)	99% Emissions Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
10	5255	9.45	14.50
10	5300	9.45	10.80
10	5340	9.40	10.45
20	5260	18.90	28.30
20	5300	18.90	27.80
20	5335	18.90	20.80
30	5265	28.35	46.05
30	5300	28.35	41.85
30	5330	28.35	30.75
40	5270	38.25	74.25
40	5300	28.75	42.75
40	5325	38.00	41.25
50	5275	47.25	52.00
50	5300	47.25	52.25
50	5320	47.25	52.00

Table 9: UNII-2A Bandwidth Emissions

5.2 §15.403(i) 26 dB Emissions Bandwidth – UNII-2C

Nominal BW (MHz)	Frequency (MHz)	99% Emissions Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
10	5480	9.35	10.35
10	5600	9.40	10.35
10	5715	9.35	10.45
20	5485	18.80	20.70
20	5600	18.80	21.00
20	5710	18.80	20.80
30	5490	28.50	31.20
30	5600	28.05	31.20
30	5705	28.20	30.90
40	5495	37.75	41.40
40	5600	37.75	44.55
40	5700	37.75	41.55
50	5500	47.00	52.25
50	5600	47.25	59.00
50	5695	47.25	55.75

Table 10: UNII-2C Bandwidth Emissions

Result

The 26 dB bandwidths are reported for information purposes. Please see Annex for all bandwidth measurements.

5.1 §15.403(a)(3) Maximum Average Output Power - UNII-2A

The maximum average RF conducted output power measured for this device was 23.8* dBm or 239.88mW. The limit is 24 dBm, or 250mW. The antenna has a gain of 3 dBi.

Nominal BW (MHz)	Frequency (MHz)	Data Rate	TP Setting	Measured EIRP	Conducted Output Power
10	5255	vt0	23	25.6	22.6
10	5300	vt0	22	25.1	22.1
10	5340	vt0	16	19.3	16.3
20	5260	vt0	24	26.3	23.3
20	5300	vt0	24	26.2	23.2
20	5335	vt0	17	20.0	17.0
30	5265	vt0	24	26.3	23.3
30	5300	vt0	24	25.9	22.9
30	5330	vt0	19	19.7	16.7
40	5270	vf0	25	26.8	23.8
40	5300	vf0	24	26.5	23.5
40	5325	vf0	19	22.1	19.1
50	5275	vf0	20	22.8	19.8
50	5300	vf0	19	21.9	18.9
50	5320	vfl	18	21.3	18.3

Table 11: UNII-2A - 3dBi Antenna

The maximum average RF conducted output power for this device was 0.8 dBm or 1.20 mW. The limit is 4 dBm, The antenna has a gain of 26 dBi.

Nominal BW (MHz)	Frequency (MHz)	Data Rate	TP Setting	EIRP	Conducted Output Power
10	5255	vt0	0	25.6	-0.4
10	5300	vt0	-1	25.1	-0.9
10	5340	vt0	-7	19.3	-6.7
20	5260	vt0	1	26.3	0.3
20	5300	vt0	1	26.2	0.2
20	5335	vt0	-6	20.0	-6.0
30	5265	vt0	1	26.3	0.3
30	5300	vt0	1	25.9	-0.1
30	5330	vt0	-4	19.7	-6.3
40	5270	vf0	2	26.8	0.8
40	5300	vf0	1	26.5	0.5
40	5325	vf0	-4	22.1	-3.9
50	5275	vf0	-3	22.8	-3.2
50	5300	vf0	-4	21.9	-4.1
50	5320	vf0	-5	21.3	-4.7

Table 12: UNII-2A - 26dBi Antenna

Result

In the configuration tested, the maximum average RF outpower was less than 0.250 watt; therefore, the EUT complied with the requirements of the specification (see spectrum analyzer plots in attached Annex).

5.2 §15.403(a)(3) Maximum Average Output Power - UNII-2C

The maximum average RF conducted output power measured for this device was 23.7* dBm or 234.42mW. The limit is 24 dBm, or 250mW. The antenna has a gain of 3 dBi.

Nominal BW (MHz)	Frequency (MHz)	Data Rate	TP Setting	Measured EIRP	Conducted Output Power
10	5480	vt0	20.0	23.9	20.9
10	5600	vt0	22.0	25.4	22.4
10	5715	vt0	21.0	25.1	22.1
20	5485	vt0	18.0	22.0	19.0
20	5600	vt0	23.0	26.4	23.4
20	5710	vt0	21.0	24.9	21.9
30	5490	vt0	19.0	22.5	19.5
30	5600	vt0	23.0	25.6	22.6
30	5705	vt0	21.0	24.7	21.7
40	5495	vf0	14.0	17.2	14.2
40	5600	vf0	24.0	26.8	23.8
40	5700	vf0	21.0	25.6	22.6
50	5500	vf0	13.0	16.7	13.7
50	5600	vf0	24.0	26.7	23.7
50	5695	vf1	22.0	26.3	23.3

Table 13: UNII-2C - 3dBi Antenna

The maximum average RF conducted output power for this device was 0.7 dBm or 1.17 mW. The limit is 4 dBm,. The antenna has a gain of 26 dBi.

Nominal BW (MHz)	Frequency (MHz)	Data Rate	TP Setting	EIRP	Conducted Output Power
10	5480	vt0	-3.0	23.9	-2.1
10	5600	vt0	-1.0	25.4	-0.6
10	5715	vt0	-2.0	25.1	-0.9
20	5485	vt0	-5.0	22.0	-4.0
20	5600	vt0	0.0	26.4	0.4
20	5710	vt0	-2.0	24.9	-1.1
30	5490	vt0	-4.0	22.5	-3.5
30	5600	vt0	0.0	25.6	-0.4
30	5705	vt0	-2.0	24.7	-1.3
40	5495	vf0	-9.0	17.2	-8.8
40	5600	vf0	1.0	26.8	0.8
40	5700	vf0	-2.0	25.6	-0.4
50	5500	vf0	-10.0	16.7	-9.3
50	5600	vf0	1.0	26.7	0.7
50	5695	vf0	-1.0	26.3	0.3

Table 14: UNII-2C - 26dBi Antenna

Result

In the configuration tested, the maximum average RF outpower was less than 0.250 watt; therefore, the EUT compiled with the requirements of the specification (see spectrum analyzer plots in attached Annex).

5.3 §15.407(b)(7) Spurious Emissions

5.3.1 Conducted Spurious Emissions

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental frequency was investigated to measure any antenna-conducted emissions. The graphs show the measurement data from spurious emissions noted across the frequency range when transmitting at the lowest frequency, middle frequency and upper frequency. Shown below are plots with the EUT turned to the upper and lower channels with the antenna gain of 3 dBi accounted for. These demonstrate compliance with the provisions of this section at the band edges.

Result

Conducted spurious emissions were attenuated below the limit; therefore, the EUT complies with the specification. See annex for results.

5.3.2 Radiated Spurious Emissions in the Restricted Bands of § 15.205 – UNII-2A

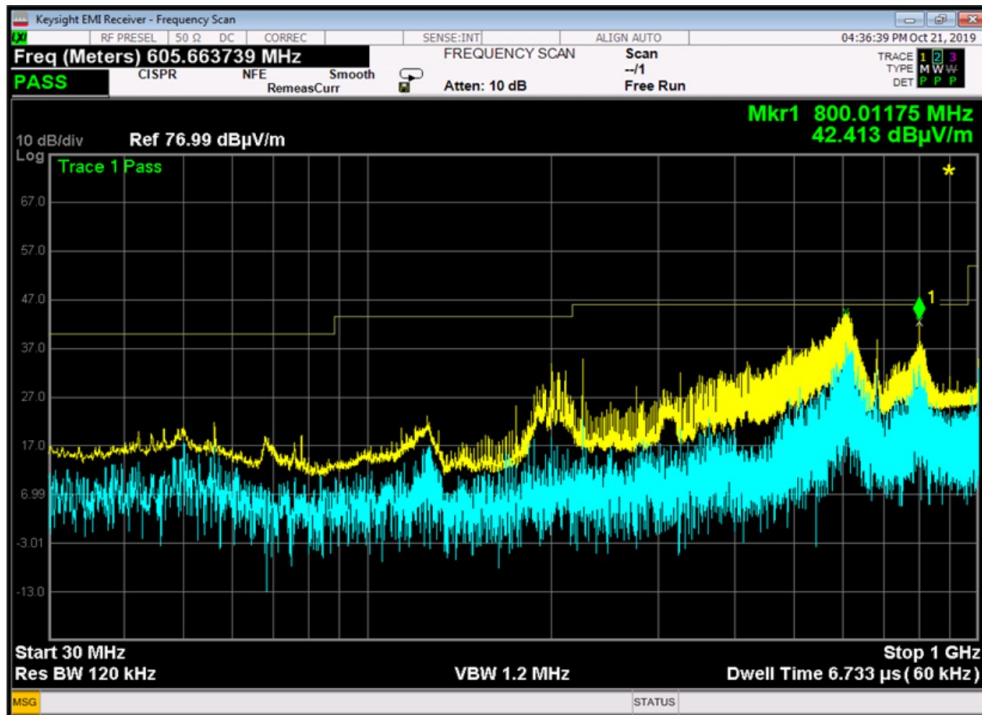
The EUT uses various power settings based on the channel in use. In order to reduce test time, the radiated spurious emissions at the lowest, middle, and highest channel were measured at the maximum power of TP30. The 2.4 GHz and 5GHz fundamental can be seen exceeding the limit in the below plots.

Result

All emissions in the restricted bands of § 15.205 met the limits specified in § 15.209; therefore, the EUT complies with the specification. See Annex for Conducted Band edge plots.

Frequency (MHZ)	Antenna Polarity	Detector	Receiver Reading (dBµV)	Correction Factor (dB)	Limit (dBµV/m)	Margin (dB)
605.66	H	QP	43.5	-6.9	46.0	-2.5
800.01	H	QP	40.3	-2.0	46.0	-5.7
48.36	V	QP	24.0	-12.1	40.0	-16.0
199.99	V	QP	32.6	-15.2	43.5	-11.0
603.08	V	QP	25.1	-6.9	46.0	-10.9
605.30	V	QP	39.9	-6.9	46.0	-6.1
800.01	V	QP	31.0	-4.6	46.0	-15.0

Table 15: UNII-2A - 30-1000MHz Frequency Range

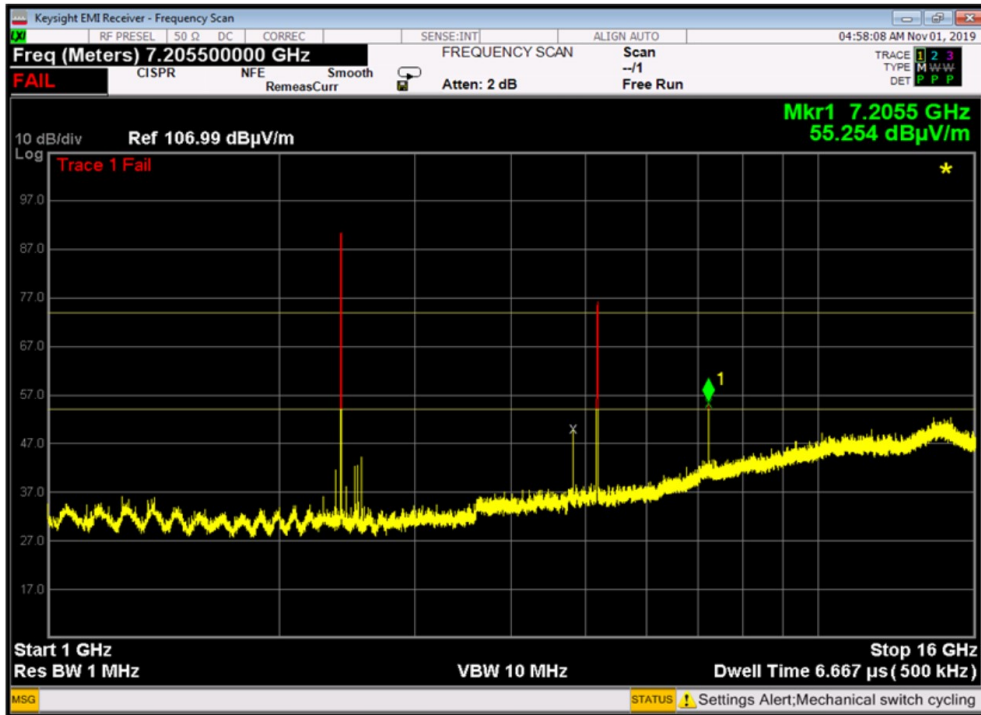


Graph 4: UNII-2A - Worst Case Plot (Horizontal, at 5160MHz, 10MHz BW)

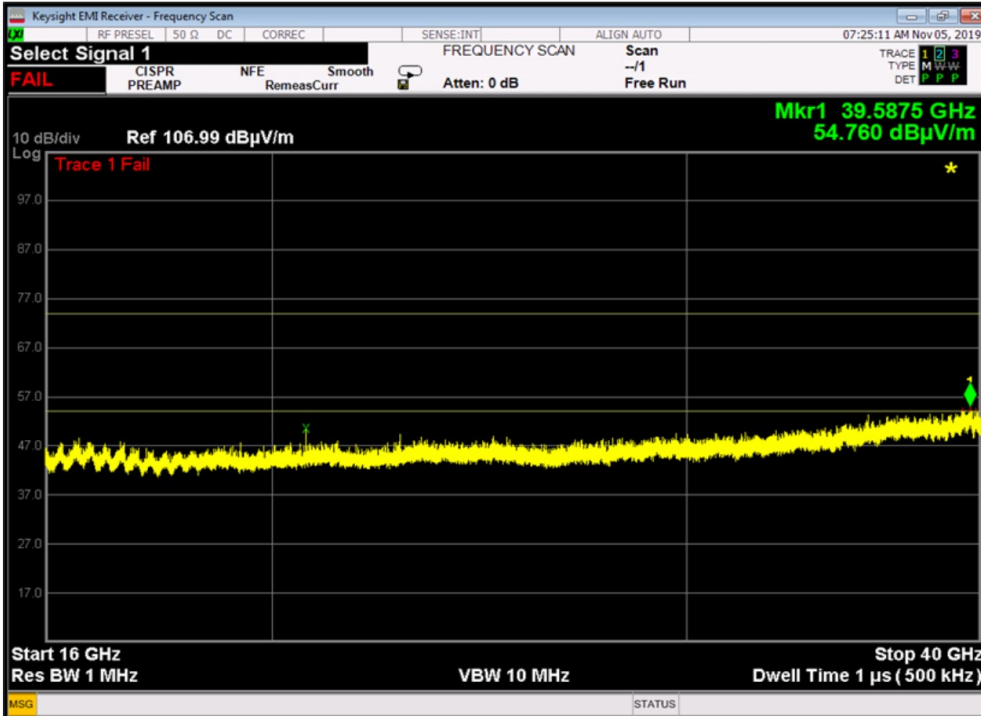
Frequency (GHZ)	Transceiver BW (MHz)	Antenna Polarity	Detector	Receiver Reading (dBμV)	Correction Factor (dB)	Limit (dBμV/m)	Margin (dB)
24.98	30	V	P	47.7	8.2	74.0	-26.3
24.98	30	V	A	36.4	8.2	54.0	-17.6
20.66	20	V	P	52.5	6.0	74.0	-21.5
20.66	20	V	A	44.6	6.0	54.0	-9.4
20.64	10	V	P	56.0	6.0	74.0	-18.0
20.64	10	V	A	39.2	6.0	54.0	-14.8
4.80	50	H	P	48.7	0.3	74.0	-25.3
7.21	50	H	P	54.0	8.2	74.0	-20.0
7.21	50	H	A	45.7	8.2	54.0	-8.3
4.80	50	H	P	49.0	0.3	74.0	-25.0
7.21	50	H	P	54.6	8.2	74.0	-19.4
7.21	50	H	A	45.2	8.2	54.0	-8.8
4.80	40	V	P	48.6	0.3	74.0	-25.4
7.21	40	V	P	54.2	8.2	74.0	-19.8
7.21	40	V	A	46.0	8.2	54.0	-8.0
4.80	40	H	P	49.5	0.3	74.0	-24.5
7.21	40	H	P	53.5	8.2	74.0	-20.5
7.21	40	H	A	45.9	8.2	54.0	-8.1
4.80	30	H	P	48.9	0.3	74.0	-25.1
7.21	30	H	P	55.3	8.2	74.0	-18.7
7.21	30	H	A	46.4	8.2	54.0	-7.6
4.80	30	V	P	49.8	0.3	74.0	-24.2
7.21	30	V	P	54.4	8.2	74.0	-19.6
7.21	30	V	A	45.3	8.2	54.0	-8.7
4.80	20	V	P	50.0	0.3	74.0	-24.0
7.21	20	V	P	55.0	8.2	74.0	-19.0
7.21	20	V	A	47.5	8.2	54.0	-6.5
4.80	20	H	P	50.2	0.3	74.0	-23.8
7.21	20	H	P	56.1	8.2	74.0	-17.9
7.21	20	H	A	46.9	8.2	54.0	-7.1
7.21	10	H	P	54.6	8.2	74.0	-19.4
7.21	10	H	A	45.4	8.2	54.0	-8.6
4.80	10	V	P	52.8	0.3	74.0	-21.2
7.21	10	V	P	54.0	8.2	74.0	-20.0
7.21	10	V	A	46.2	8.2	54.0	-7.8
4.80	10	V	A	46.0	0.3	54.0	-8.0

Note: If peak measurements are below the average limit, average measurements may not have been recorded.
 Note: No harmonics noted from the 5Ghz transceiver with the 50-ohm loads applied to the RF output. See below for worst case plots of the data noted above.

Table 16: UNII-2A - Transmitting on the Lowest Frequency



Graph 5: UNII-2A - Worst Case Plot (1-16GHz; Vertical, at 5165MHz, 20MHz BW)



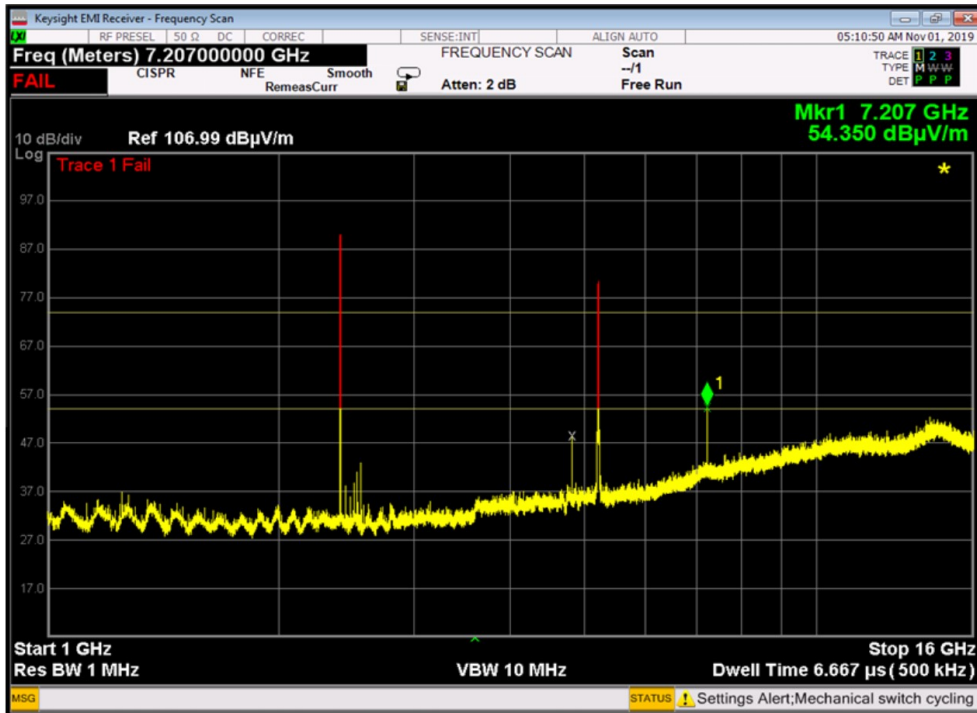
Graph 6: UNII-2A - Worst Case Plot (16-40GHz; Vertical, at 5165MHz, 20MHz BW)

Frequency (GHZ)	Transceiver BW (MHz)	Antenna Polarity	Detector	Receiver Reading (dBμV)	Correction Factor (dB)	Limit (dBμV/m)	Margin (dB)
16.73	50	V	P	49.5	14.0	74.0	-24.5
16.75	40	H	P	48.6	13.8	74.0	-25.4
16.75	40	H	A	37.2	13.8	54.0	-16.8
20.80	20	H	P	50.8	6.2	74.0	-23.2
20.80	20	H	A	38.7	6.2	54.0	-15.3
20.80	20	V	P	51.8	6.2	74.0	-22.2
20.80	20	V	A	38.8	6.2	54.0	-15.2
20.80	10	V	P	55.2	6.2	74.0	-18.8
20.80	10	V	A	42.0	6.2	54.0	-12.0
20.80	10	H	P	53.1	6.2	74.0	-20.9
20.80	10	H	A	39.7	6.2	74.0	-34.3
4.80	50	V	P	49.1	0.3	74.0	-24.9
7.21	50	V	P	54.4	8.2	74.0	-19.6
7.21	50	V	A	45.2	8.2	54.0	-8.8
4.80	50	H	P	47.8	0.3	74.0	-26.2
7.21	50	H	P	54.0	8.2	74.0	-20.0
7.21	50	H	A	44.9	8.2	54.0	-9.1
4.80	40	H	P	48.0	0.3	74.0	-26.0
7.21	40	H	P	53.6	8.2	74.0	-20.4
7.21	40	H	A	45.9	8.2	54.0	-8.1
4.80	40	V	P	49.6	0.3	74.0	-24.4
7.21	40	V	P	54.1	8.2	74.0	-19.9
7.21	40	V	A	46.1	8.2	54.0	-7.9
4.80	30	V	P	49.6	0.3	74.0	-24.4
7.21	30	V	P	54.3	8.2	74.0	-19.7
7.21	30	V	A	45.3	8.2	54.0	-8.7
4.80	30	H	P	48.7	0.3	74.0	-25.3
7.21	30	H	P	54.9	8.2	74.0	-19.1
7.21	30	H	A	45.8	8.2	54.0	-8.2
4.80	20	H	P	48.6	0.3	74.0	-25.4
7.21	20	H	P	55.1	8.2	74.0	-18.9
7.21	20	H	A	46.1	8.2	54.0	-7.9
4.80	20	V	P	49.8	0.3	74.0	-24.2
7.21	20	V	P	55.2	8.2	74.0	-18.8
7.21	20	V	A	46.1	8.2	54.0	-7.9
4.70	10	V	P	51.4	0.3	74.0	-22.6
4.70	10	V	A	44.6	0.3	54.0	-9.4
7.21	10	V	P	54.1	8.2	74.0	-19.9
7.21	10	V	A	45.0	8.2	54.0	-9.0
7.60	10	V	P	51.0	8.5	74.0	-23.0
7.60	10	V	A	37.5	8.5	54.0	-16.5
15.61	10	V	P	52.3	15.5	74.0	-21.7
15.61	10	V	A	41.6	15.5	54.0	-12.4
7.21	10	H	P	54.8	8.2	74.0	-19.2

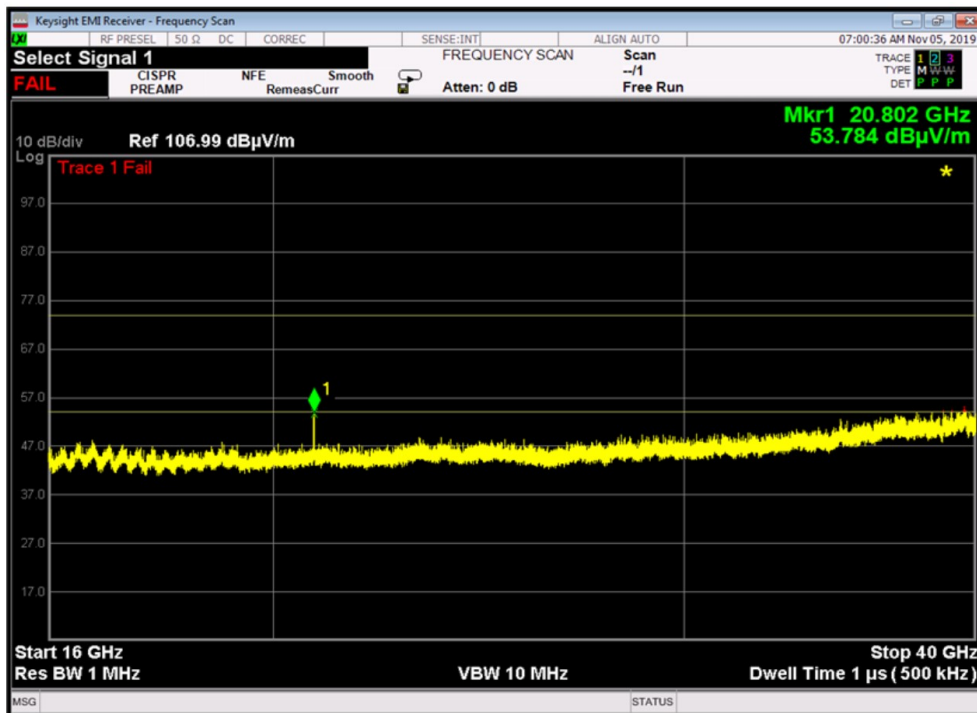
Frequency (GHZ)	Transceiver BW (MHz)	Antenna Polarity	Detector	Receiver Reading (dB μ V)	Correction Factor (dB)	Limit (dB μ V/m)	Margin (dB)
7.21	10	H	A	45.5	8.2	54.0	-8.5
10.40	10	H	P	53.7	13.6	74.0	-20.4
10.40	10	H	A	41.8	13.6	54.0	-12.2
13.94	10	H	P	47.4	16.9	74.0	-26.6
13.94	10	H	A	36.7	16.9	54.0	-17.3

Note: If peak measurements are below the average limit, average measurements may not have been recorded.
 Note: No harmonics noted from the 5Ghz transceiver with the 50-ohm loads applied to the RF output. See appendix section for worst case plots of the data noted above.

Table 17: UNII-2A - Transmitting on the Middle Frequency (5200MHz)



Graph 7: UNII-2A - Worst Case Plot (1-16GHz; Horizontal, at 5200MHz, 20MHz BW)



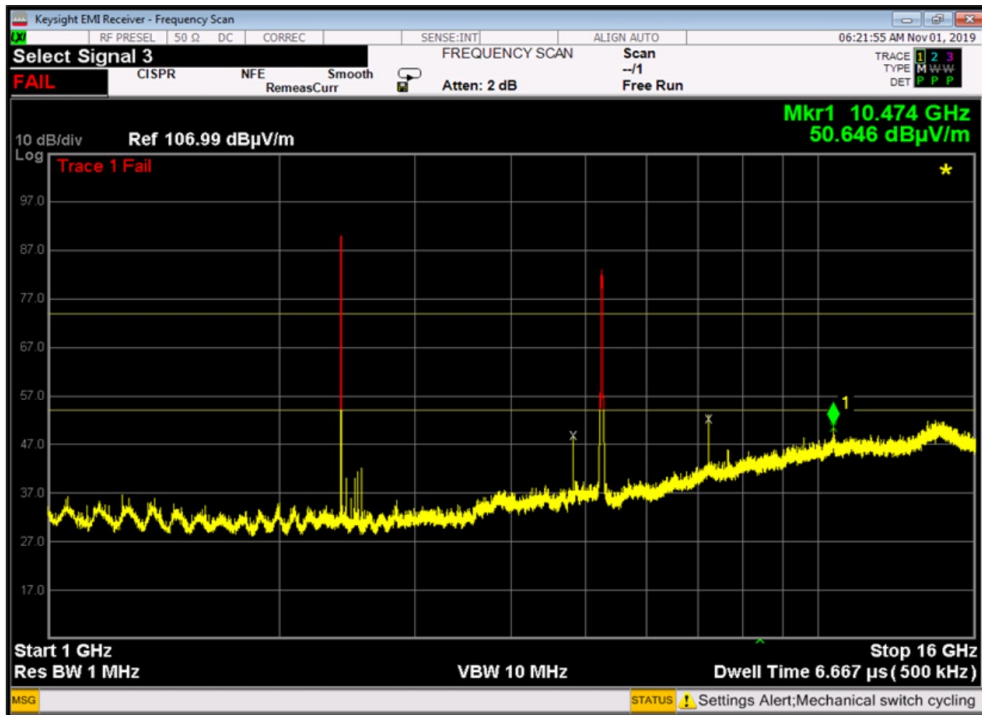
Graph 8: UNII-2A - Worst Case Plot (16-40GHz; Vertical, at 5200MHz, 10MHz BW)

Frequency (GHZ)	Transceiver BW (MHz)	Antenna Polarity	Detector	Receiver Reading (dBμV)	Correction Factor (dB)	Limit (dBμV/m)	Margin (dB)
16.76	50	H	P	48.7	13.8	74.0	-25.3
20.94	30	V	P	51.6	6.4	74.0	-22.4
20.94	30	V	A	40.4	6.4	54.0	-13.6
20.99	10	H	P	51.9	6.5	74.0	-22.1
20.99	10	H	A	38.7	6.5	54.0	-15.3
20.99	10	V	P	53.5	6.5	74.0	-20.5
20.99	10	V	A	39.7	6.5	54.0	-14.3
4.80	50	H	P	49.1	0.3	74.0	-24.9
7.21	50	H	P	54.1	8.2	74.0	-19.9
7.21	50	H	A	44.8	8.2	54.0	-9.2
4.80	50	V	P	48.7	0.3	74.0	-25.3
7.21	50	V	P	54.3	8.2	74.0	-19.7
7.21	50	V	A	45.3	8.2	54.0	-8.7
4.80	40	V	P	49.3	0.3	74.0	-24.7
7.21	40	V	P	54.2	8.2	74.0	-19.8
7.21	40	V	A	46.2	8.2	54.0	-7.8
4.80	40	H	P	49.4	0.3	74.0	-24.6
7.21	40	H	P	53.5	8.2	74.0	-20.5
7.21	40	H	A	45.8	8.2	54.0	-8.2
4.80	30	V	P	48.8	0.3	74.0	-25.2
7.21	30	V	P	55.5	8.2	74.0	-18.5
7.21	30	V	A	47.7	8.2	54.0	-6.3
10.47	30	V	P	50.6	13.5	74.0	-23.4
4.80	30	H	P	48.2	0.3	74.0	-25.8
7.21	30	H	P	54.1	8.2	74.0	-19.9
7.21	30	H	A	46.1	8.2	54.0	-7.9
4.80	20	V	P	49.5	0.3	74.0	-24.5
7.21	20	V	P	54.3	8.2	74.0	-19.7
7.21	20	V	A	46.4	8.2	54.0	-7.6
7.64	20	V	P	46.4	8.7	74.0	-27.6
4.80	20	H	P	49.9	0.3	74.0	-24.1
7.21	20	H	P	54.3	8.2	74.0	-19.7
7.21	20	H	A	45.3	8.2	54.0	-8.7
10.48	20	H	P	52.9	13.6	74.0	-21.1
10.48	20	H	A	40.5	13.6	54.0	-13.5
7.21	10	H	P	53.5	8.2	74.0	-20.5
7.21	10	H	A	44.2	8.2	54.0	-9.8
7.64	10	H	P	52.5	8.5	74.0	-21.5
7.64	10	H	A	39.3	8.5	54.0	-14.7
10.49	10	H	P	55.8	15.5	74.0	-18.2
10.49	10	H	A	43.5	15.5	54.0	-10.5
4.81	10	V	P	51.5	0.3	74.0	-22.5
4.81	10	V	A	43.9	0.3	54.0	-10.1

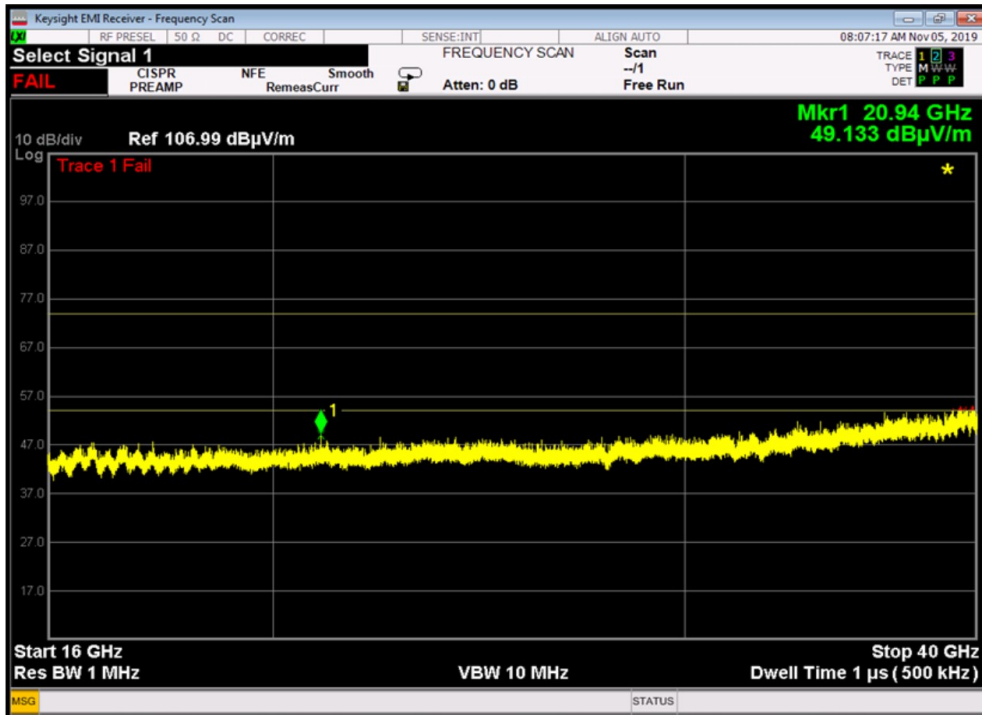
Frequency (GHZ)	Transceiver BW (MHz)	Antenna Polarity	Detector	Receiver Reading (dB μ V)	Correction Factor (dB)	Limit (dB μ V/m)	Margin (dB)
7.21	10	V	P	54.4	8.2	74.0	-19.6
7.21	10	V	A	46.0	8.2	54.0	-8.0
7.65	10	V	P	52.4	8.6	74.0	-21.6
7.65	10	V	A	38.8	8.6	54.0	-15.2

Note: If peak measurements are below the average limit, average measurements may not have been recorded.
 Note: No harmonics noted from the 5Ghz transceiver with the 50-ohm loads applied to the RF output. See appendix section for worst case plots of the data noted above.

Table 18: UNII-2A - Transmitting on the Highest Frequency



Graph 9: UNII-2A - Worst Case Plot (1-16GHz; Horizontal, at 5235MHz, 30MHz BW)



Graph 10: UNII-2A - Worst Case Plot (16-40GHz; Vertical, at 5235MHz, 30MHz BW)

5.3.3 Radiated Spurious Emissions in the Restricted Bands of § 15.205 – UNII-2C

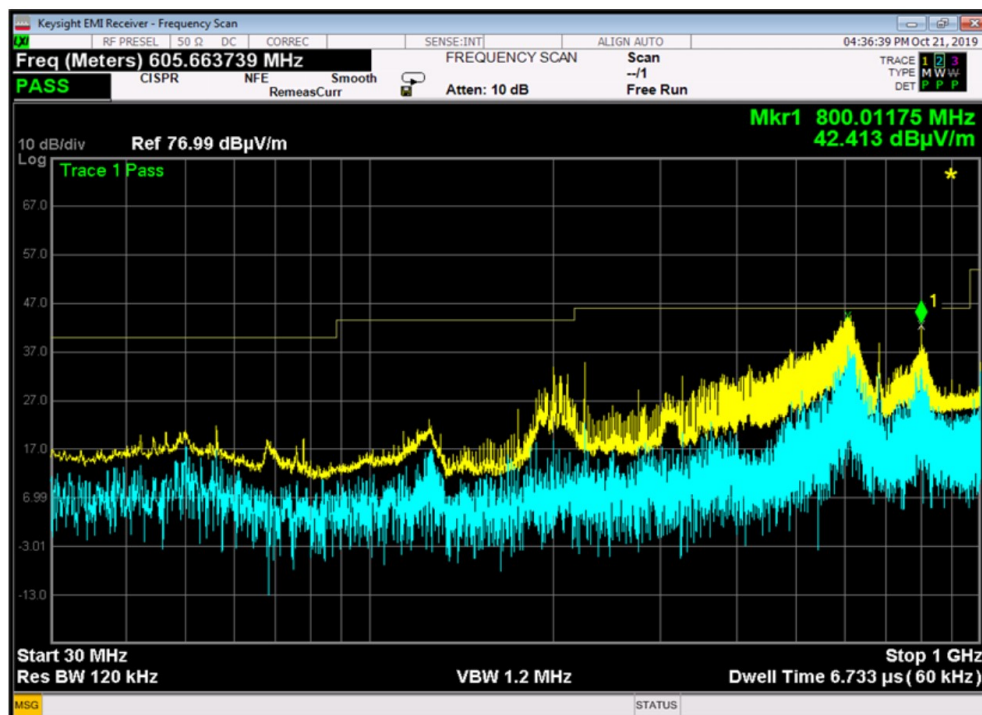
The EUT uses various power settings based on the channel in use. In order to reduce test time, the radiated spurious emissions at the lowest, middle, and highest channel were measured at the maximum power of TP30.

Result

All emissions in the restricted bands of § 15.205 met the limits specified in § 15.209; therefore, the EUT complies with the specification. See Annex for Conducted Band edge plots.

Frequency (MHZ)	Antenna Polarity	Detector	Receiver Reading (dBµV)	Correction Factor (dB)	Limit (dBµV/m)	Margin (dB)
605.66	H	QP	43.5	-6.9	46.0	-2.5
800.01	H	QP	40.3	-2.0	46.0	-5.7
48.36	V	QP	24.0	-12.1	40.0	-16.0
199.99	V	QP	32.6	-15.2	43.5	-11.0
603.08	V	QP	25.1	-6.9	46.0	-10.9
605.30	V	QP	39.9	-6.9	46.0	-6.1
800.01	V	QP	31.0	-4.6	46.0	-15.0

Table 19: UNII-2C - 30-1000MHz Frequency Range

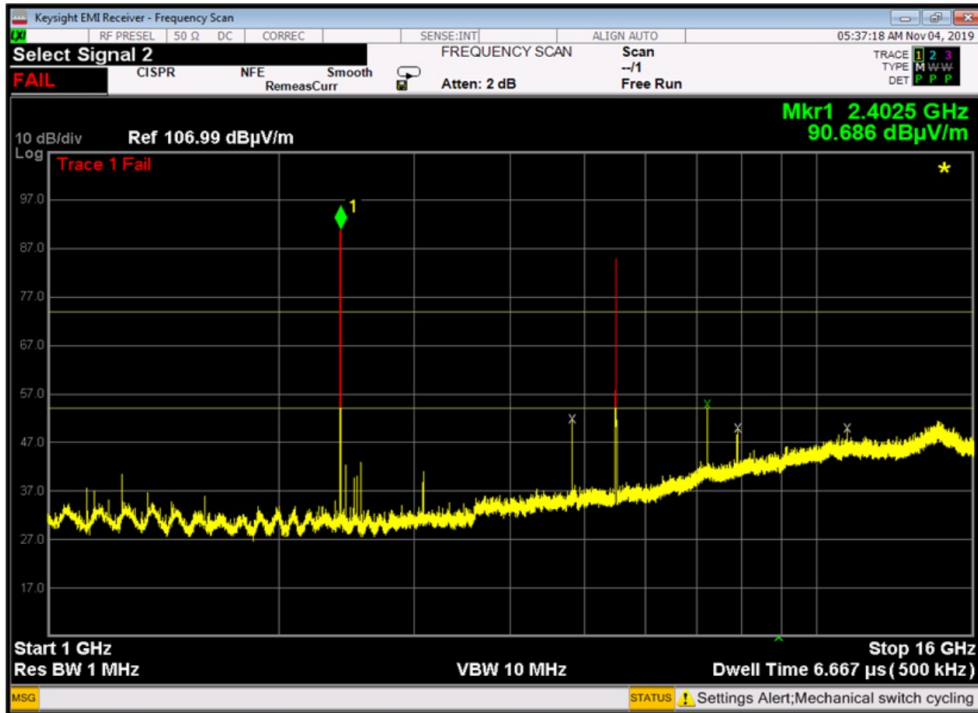


Graph 11: UNII-2C - Worst Case Receiver Plot (Horizontal, at 10MHz BW)

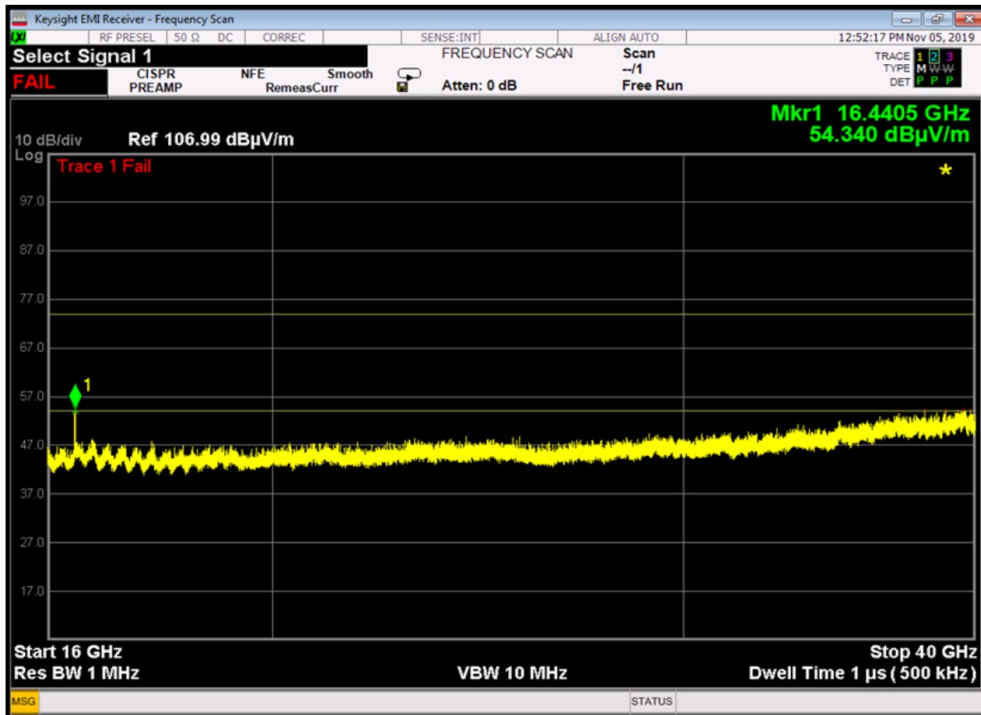
Frequency (GHZ)	Transceiver BW (MHz)	Antenna Polarity	Detector	Receiver Reading (dB μ V)	Correction Factor (dB)	Limit (dB μ V/m)	Margin (dB)
16.49	50	V	P	49.6	15.7	74.0	-24.4
16.49	40	V	P	50.1	15.7	74.0	-23.9
16.48	30	V	P	53.7	15.8	74.0	-20.3
16.46	20	H	P	47.5	15.9	74.0	-26.5
16.46	20	V	P	54.7	15.9	74.0	-19.3
16.46	20	V	A	43.6	15.9	54.0	-10.4
16.44	10	H	P	51.8	16.0	74.0	-22.2
16.44	10	H	A	39.8	16.0	54.0	-14.2
16.44	10	V	P	57.0	16.0	74.0	-17.0
16.44	10	V	A	45.3	16.0	54.0	-8.7
4.80	50	V	P	48.0	0.3	74.0	-26.0
7.21	50	V	P	53.7	8.2	74.0	-20.3
7.21	50	V	A	45.7	8.2	54.0	-8.3
4.80	50	H	P	47.6	0.3	74.0	-26.4
7.21	50	H	P	54.8	8.2	74.0	-19.2
7.21	50	H	A	46.5	8.2	54.0	-7.5
4.80	40	V	P	49.1	0.3	74.0	-24.9
7.21	40	V	P	54.1	8.2	74.0	-19.9
7.21	40	V	A	45.0	8.2	54.0	-9.0
4.80	40	H	P	46.7	0.3	74.0	-27.3
7.21	40	H	P	55.1	8.2	74.0	-18.9
7.21	40	H	A	47.3	8.2	54.0	-6.7
4.80	30	H	P	48.7	0.3	74.0	-25.3
7.21	30	H	P	53.8	8.2	74.0	-20.2
7.21	30	H	A	45.8	8.2	54.0	-8.2
4.80	30	V	P	48.4	0.3	74.0	-25.6
7.21	30	V	P	54.3	8.2	74.0	-19.7
7.21	30	V	A	45.0	8.2	54.0	-9.0
4.80	20	V	P	49.3	0.3	74.0	-24.7
7.21	20	V	P	54.0	8.2	74.0	-20.0
7.21	20	V	A	46.1	8.2	54.0	-7.9
4.80	20	H	P	46.9	0.3	74.0	-27.1
7.21	20	H	P	55.4	8.2	74.0	-18.6
7.21	20	H	A	47.4	8.2	54.0	-6.6
4.80	10	H	P	51.9	0.3	74.0	-22.1
7.21	10	H	P	55.3	8.2	74.0	-18.7
7.21	10	H	A	47.6	8.2	54.0	-6.4
7.89	10	H	P	49.9	9.4	74.0	-24.1
10.96	10	H	P	53.6	13.8	74.0	-20.4
10.96	10	H	A	42.0	13.8	54.0	-12.0
4.80	10	V	P	50.5	0.3	74.0	23.5
7.21	10	V	P	55.1	8.2	74.0	18.9
7.21	10	V	A	45.8	8.2	54.0	8.2

Note: If peak measurements are below the average limit, average measurements may not have been recorded.
 Note: No harmonics noted from the 5Ghz transceiver with the 50-ohm loads applied to the RF output. See below for worst case plots of the data noted above.

Table 20: UNII-2C - Transmitting on the Lowest Frequency



Graph 12: UNII-2C - Worst Case Plot (1-16GHz; Horizontal, at 5480MHz, 10MHz BW)

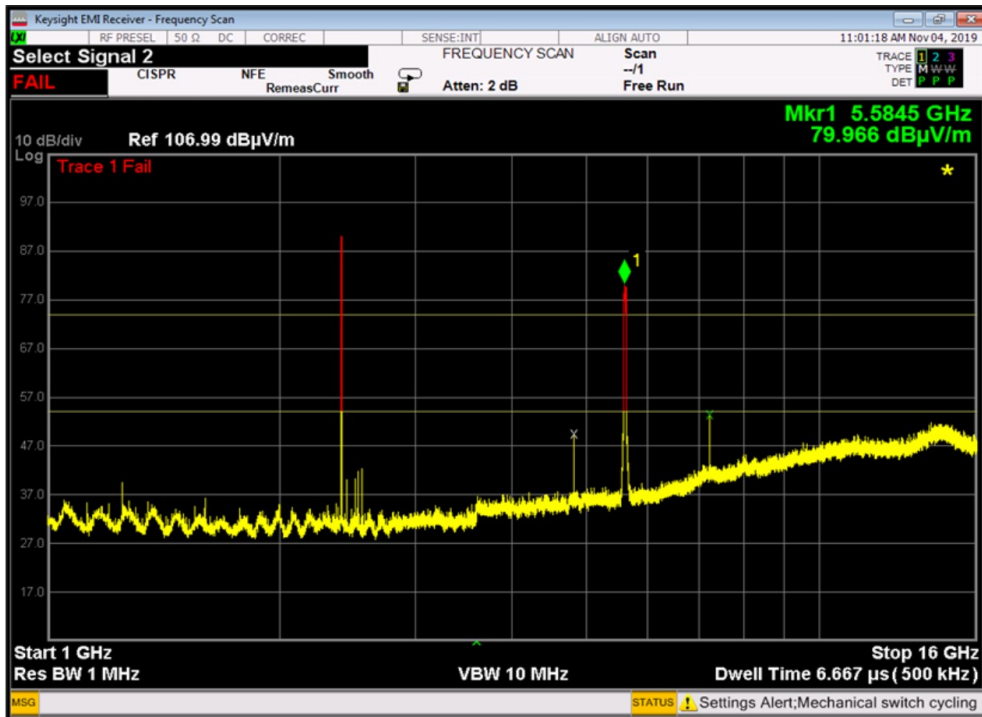


Graph 13: UNII-2C - Worst Case Plot (16-40GHz; Vertical, at 5480MHz, 10MHz BW)

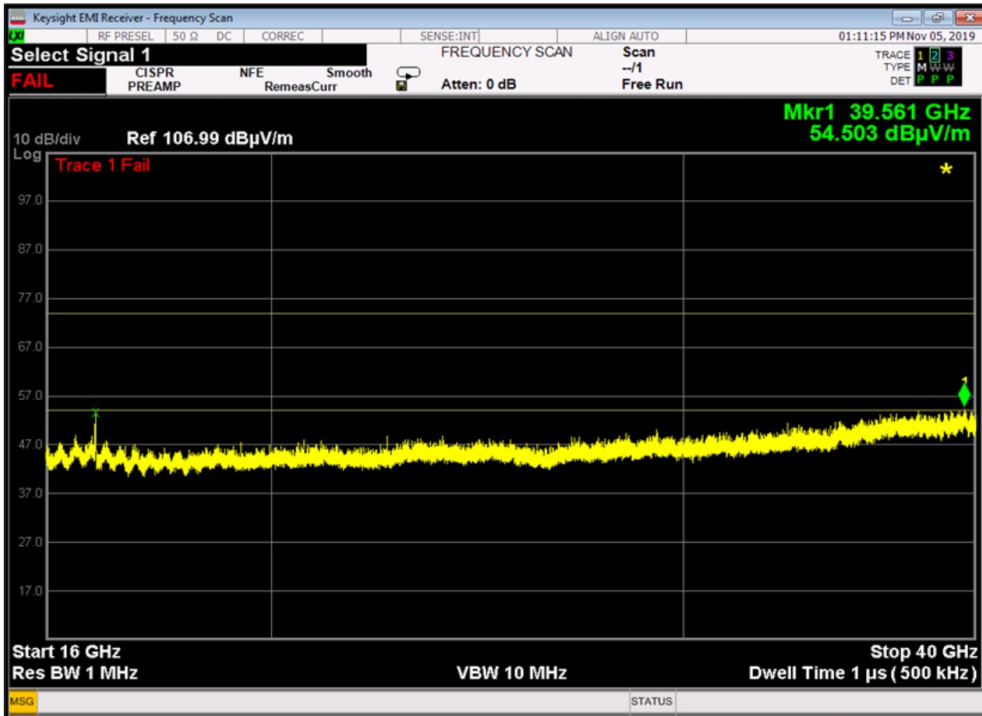
Frequency (GHZ)	Transceiver BW (MHz)	Antenna Polarity	Detector	Receiver Reading (dB μ V)	Correction Factor (dB)	Limit (dB μ V/m)	Margin (dB)
16.78	50	V	P	50.3	13.6	74.0	-23.7
16.79	40	V	P	50.7	13.5	74.0	-23.3
16.81	30	V	P	49.5	13.4	74.0	-24.5
16.80	20	V	P	54.8	13.5	74.0	-19.2
16.80	20	V	A	43.5	13.5	54.0	-10.5
16.80	20	H	P	49.1	13.5	74.0	-24.9
16.80	10	H	P	49.2	13.4	74.0	-24.8
16.80	10	V	P	57.3	13.4	74.0	-16.7
16.80	10	V	A	46.0	13.4	54.0	-8.0
4.80	50	H	P	48.5	0.3	74.0	-25.5
7.21	50	H	P	53.2	8.2	74.0	-20.8
7.21	50	H	A	44.9	8.2	54.0	-9.1
4.80	50	V	P	48.9	0.3	74.0	-25.1
7.21	50	V	P	53.9	8.2	74.0	-20.1
7.21	50	V	A	46.0	8.2	54.0	-8.0
4.80	40	H	P	49.5	0.3	74.0	-24.5
7.21	40	H	P	55.1	8.2	74.0	-18.9
7.21	40	H	A	47.3	8.2	54.0	-6.7
4.80	40	V	P	48.2	0.3	74.0	-25.8
7.21	40	V	P	54.1	8.2	74.0	-19.9
7.21	40	V	A	45.0	8.2	54.0	-9.0
4.80	30	V	P	49.1	0.3	74.0	-24.9
7.21	30	V	P	54.1	8.2	74.0	-19.9
7.21	30	V	A	45.0	8.2	54.0	-9.0
4.80	30	H	P	50.3	0.3	74.0	-23.7
7.21	30	H	P	54.3	8.2	74.0	-19.7
7.21	30	H	A	45.1	8.2	54.0	-8.9
4.80	20	H	P	50.0	0.3	74.0	-24.0
7.21	20	H	P	54.9	8.2	74.0	-19.1
7.21	20	H	A	47.0	8.2	54.0	-7.0
4.80	20	V	P	50.3	0.3	74.0	-23.7
7.21	20	V	P	54.1	8.2	74.0	-19.9
7.21	20	V	A	46.1	8.2	54.0	-7.9
4.80	10	V	P	49.5	0.3	74.0	-24.5
7.21	10	V	P	54.3	8.2	74.0	-19.7
7.21	10	V	A	46.3	8.2	54.0	-7.7
8.00	10	V	P	48.7	9.5	74.0	-25.3
4.80	10	H	P	50.8	0.3	74.0	-23.2
7.21	10	H	P	55.0	8.2	74.0	-19.0
7.21	10	H	A	44.1	8.2	54.0	-9.9
8.00	10	H	P	50.5	9.6	74.0	-23.5
11.20	10	H	P	54.4	13.8	74.0	-19.6
11.20	10	H	A	43.6	13.8	54.0	-10.4

Note: If peak measurements are below the average limit, average measurements may not have been recorded.
 Note: No harmonics noted from the 5Ghz transceiver with the 50-ohm loads applied to the RF output. See appendix section for worst case plots of the data noted above.

Table 21: UNII-2C - Transmitting on the Middle Frequency (5200MHz)



Graph 14: UNII-2C - Worst Case Plot (1-16GHz; Horizontal, at 5600MHz, 40MHz BW)

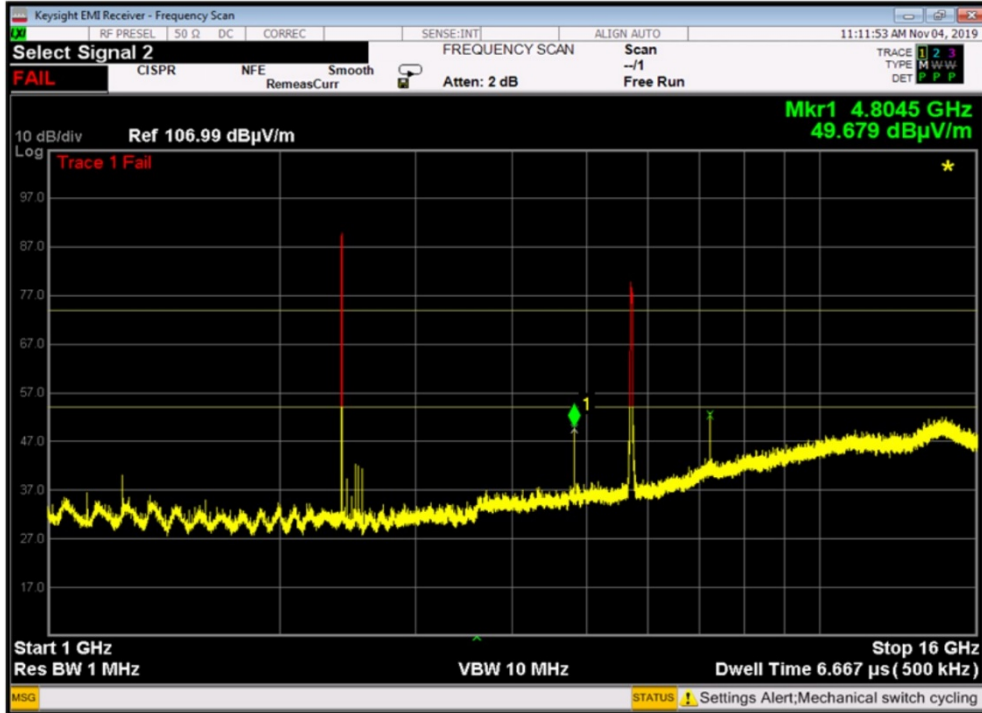


Graph 15: UNII-2C - Worst Case Plot (16-40GHz; Vertical, at 5600MHz, 10MHz BW)

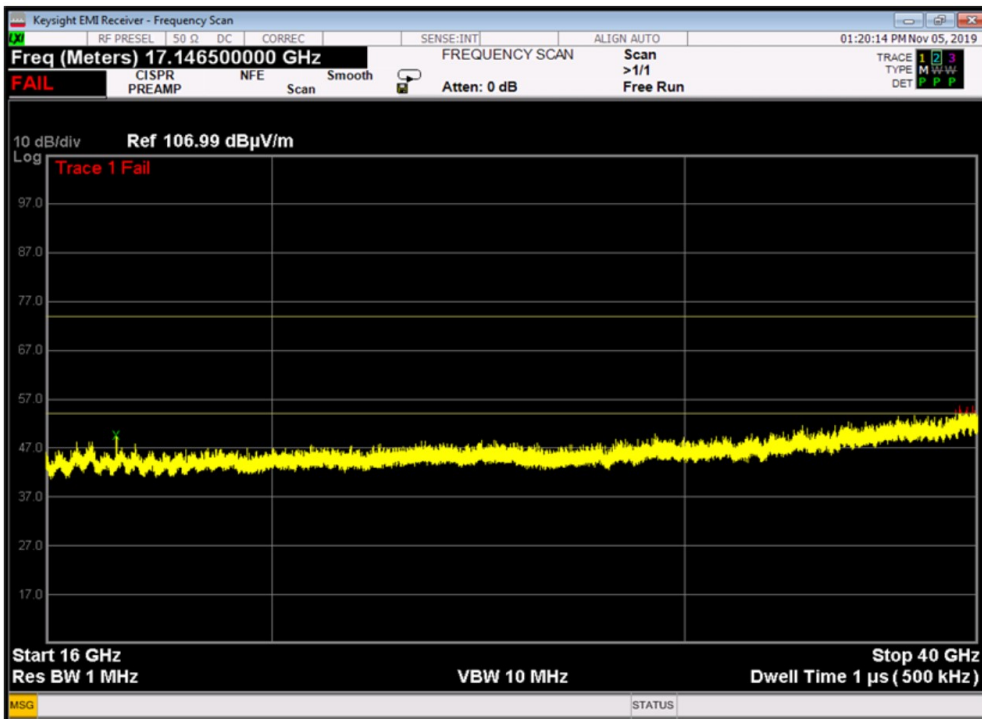
Frequency (GHZ)	Transceiver BW (MHz)	Antenna Polarity	Detector	Receiver Reading (dBμV)	Correction Factor (dB)	Limit (dBμV/m)	Margin (dB)
16.75	20	H	P	48.0	13.9	74.0	-26.0
17.15	10	V	P	49.7	10.7	74.0	-24.3
4.80	50	H	P	48.4	0.3	74.0	-25.6
7.21	50	H	P	55.4	8.2	74.0	-18.6
7.21	50	H	A	46.5	8.2	54.0	-7.6
4.80	50	V	P	49.0	0.3	74.0	-25.0
7.21	50	V	P	54.3	8.2	74.0	-19.7
7.21	50	V	A	44.9	8.2	54.0	-9.1
4.80	40	H	P	49.7	0.3	74.0	-24.3
7.21	40	H	P	55.1	8.2	74.0	-18.9
7.21	40	H	A	47.7	8.2	54.0	-6.3
4.80	40	V	P	49.2	0.3	74.0	-24.8
7.21	40	V	P	54.0	8.2	74.0	-20.0
7.21	40	V	A	45.8	8.2	54.0	-8.2
4.80	30	H	P	49.3	0.3	74.0	-24.7
7.21	30	H	P	54.9	8.2	74.0	-19.1
7.21	30	H	A	45.7	8.2	54.0	-8.3
4.80	30	V	P	48.1	0.3	74.0	-25.9
7.21	30	V	P	54.0	8.2	74.0	-20.0
7.21	30	V	A	45.9	8.2	54.0	-8.1
4.80	20	V	P	49.0	0.3	74.0	-25.0
7.21	20	V	P	54.2	8.2	74.0	-19.8
7.21	20	V	A	45.0	8.2	54.0	-9.0
4.80	20	H	P	49.0	0.3	74.0	-25.0
7.21	20	H	P	54.0	8.2	74.0	-20.0
7.21	20	H	A	45.6	8.2	54.0	-8.4
4.80	10	H	P	50.0	0.3	74.0	-24.0
7.21	10	H	P	54.1	8.2	74.0	-19.9
7.21	10	H	A	44.9	8.2	54.0	-9.1
11.43	10	H	P	54.5	14.2	74.0	-19.5
11.43	10	H	A	43.6	14.1	54.0	-10.4
4.80	10	V	P	49.5	0.3	74.0	-24.5
7.21	10	V	P	54.5	8.2	74.0	-19.5
7.21	10	V	A	45.2	8.2	54.0	-8.8

Note: If peak measurements are below the average limit, average measurements may not have been recorded.
 Note: No harmonics noted from the 5Ghz transceiver with the 50-ohm loads applied to the RF output. See appendix section for worst case plots of the data noted above.

Table 22: UNII-2C - Transmitting on the Highest Frequency for Each of the Bandwidths Noted



Graph 16: UNII-2C - Worst Case Plot (1-16GHz; Horizontal, at 5700MHz, 40MHz BW)



Graph 17: UNII-2C - Worst Case Plot (16-40GHz; Vertical, at 5715MHz, 10MHz BW)

5.1 §15.407(a) Maximum Power Spectral Density – UNII-2A

The maximum average power spectral density conducted from the intentional radiator of the antenna shall not be greater than 30 dBm in any 500 kHz band during any time interval of continuous transmission.

Results of this testing are summarized.

Nominal BW (MHz)	Frequency (MHz)	Data Rate	TP Setting	Measured PSD
10	5255	vt0	23	10.9
10	5300	vt0	22	10.3
10	5340	vt0	16	5.2
20	5260	vt0	24	8.7
20	5300	vt0	24	9.0
20	5335	vt0	17	3.0
30	5265	vt0	24	8.4
30	5300	vt0	24	8.4
30	5330	vt0	19	2.4
40	5270	vf0	25	7.7
40	5300	vf0	24	8.4
40	5325	vf0	19	2.6
50	5275	vf0	20	2.8
50	5300	vf0	19	2.0
50	5320	vf1	18	1.0

*Note: Mathematically adjusted to subtract the 3dBi antenna which was accounted for by test program.

Table 23: UNII-2A - 3dBi Antenna

Nominal BW (MHz)	Frequency (MHz)	Data Rate	TP Setting	Measured PSD
10	5255	vt0	0	-12.1
10	5300	vt0	-1	-12.7
10	5340	vt0	-7	-17.8
20	5260	vt0	1	-14.3
20	5300	vt0	1	-14.0
20	5335	vt0	-6	-20.0
30	5265	vt0	1	-14.6
30	5300	vt0	1	-14.6
30	5330	vt0	-4	-20.6
40	5270	vf0	2	-15.3
40	5300	vf0	1	-14.6
40	5325	vf0	-4	-20.4
50	5275	vf0	-3	-20.2
50	5300	vf0	-4	-21.0
50	5320	vf0	-5	-22.0

*Note: Mathematically adjusted to subtract the 3dBi antenna which was accounted for by test program.

Table 24: UNII-2A - 26dBi Antenna

5.2 §15.407(a) Maximum Power Spectral Density- UNII-2C

The maximum average power spectral density conducted from the intentional radiator of the antenna shall not be greater than 30 dBm in any 500 kHz band during any time interval of continuous transmission. Results of this testing are summarized.

Nominal BW (MHz)	Frequency (MHz)	Data Rate	TP Setting	Measured PSD
10	5480	vt0	20	8.927
10	5600	vt0	22	10.876
10	5715	vt0	21	10.377
20	5485	vt0	18	4.201
20	5600	vt0	23	9.115
20	5710	vt0	21	7.264
30	5490	vt0	19	4.402
30	5600	vt0	23	8.204
30	5705	vt0	21	6.613
40	5495	vf0	14	-1.666
40	5600	vf0	24	7.94
40	5700	vf0	21	6.381
50	5500	vf0	13	-3.561
50	5600	vf0	24	6.705
50	5695	vfl	22	6.25

Table 25: UNII-2C - 3dBi Antenna

Nominal BW (MHz)	Frequency (MHz)	Data Rate	TP Setting	Measured PSD
10	5480	vt0	-3	-14.073
10	5600	vt0	-1	-12.124
10	5715	vt0	-2	-12.623
20	5485	vt0	-5	-18.799
20	5600	vt0	0	-13.885
20	5710	vt0	-2	-15.736
30	5490	vt0	-4	-18.598
30	5600	vt0	0	-14.796
30	5705	vt0	-2	-16.387
40	5495	vf0	-9	-24.666
40	5600	vf0	1	-15.06
40	5700	vf0	-2	-16.619
50	5500	vf0	-10	-26.561
50	5600	vf0	1	-16.295
50	5695	vf0	-1	-16.75

Table 26: UNII-2C - 26dBi Antenna

Result

The maximum average power spectral density was less than the limit of 30 dBm; therefore, the EUT complies with the specification.

5.3 §15.407 DFS Requirement – UNII-2A & UNII-2C

This product is a client without radar detection. The outcome of the required DFS tests is located in the DFS Annex. The product passes all required DFS tests for a client without radar detection (See annex for DFS results).

-- End of Test Report --