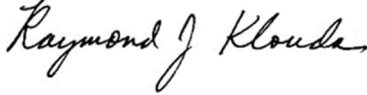




Engineering Test Report No. 2600113-02

Report Date	May 7, 2026	
Manufacturer Name	The Chamberlain Group LLC	
Manufacturer Address	300 Windsor Dr Oak Brook, IL 60523	
Product Name Model No.	Link 2.0 RTL8720CS	
Date Received	April 22, 2026	
Test Dates	April 23, 2026 – April 29, 2026	
Specifications	FCC "Code of Federal Regulations" Title 47, Part 15, Subpart B FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.247 Innovation, Science, and Economic Development Canada, RSS-GEN Innovation, Science, and Economic Development Canada, RSS-247	
Test Facility	Elite Electronic Engineering, Inc. 1516 Centre Circle, Downers Grove, IL 60515	FCC Reg. Number: 269750 IC Reg. Number: 2987A CAB Identifier: US0107
Signature		
Tested by	Jack Gallet	
Signature		
Approved by	Raymond J. Klouda, Registered Professional Engineer of Illinois – 44894	
PO Number	4900106813	

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Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.247 and Innovation, Science, and Economic Development Canada, RSS-247 test specifications. The data presented in this test report pertains to the EUT on the test dates specified. Any electrical or mechanical modifications made to the EUT subsequent to the specified test date will serve to invalidate the data and void this certification. This report must not be used to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

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1. Report Revision History

Revision	Date	Description
–	15 MAY 2026	Initial Release of Engineering Test Report No. 2600113-02

2. Introduction

2.1. Scope of Tests

This document presents the results of a series of RF emissions tests that were performed on two The Chamberlain Group LLC Link 2.0's (hereinafter referred to as the Equipment Under Test (EUT)). The EUTs were manufactured and submitted for testing by The Chamberlain Group LLC located in Oak Brook, IL.

2.2. Purpose

The test series was performed to determine if the EUTs meet the RF emission requirements of the FCC "Code of Federal Regulations" Title 47, Part 15, Subpart C, §15.247 for a Digital Modulation intentional radiator operating within the 2400 – 2483.5MHz band.

The test series was also performed to determine if the EUTs meet the RF emission requirements of the Innovation, Science, and Economic Development Canada Radio Standards Specification RSS-247 for a Digital Modulation intentional radiator operating within the 2400 – 2483.5MHz band.

Testing was performed in accordance with ANSI C63.10-2020.

2.3. Identification of the EUT

The EUTs were identified as follows and used throughout the test series:

EUT Identification	
EUT #1 (for Antenna Conducted measurements)	
Product Description	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-06
Software/Firmware Version	Release 1.0
Device Type	Digitally Modulated Transmission Device
Band of Operation	2400 – 2483.5MHz
Modulation Type	WiFi (802.11b/g/n)
Antenna Type	External Antenna Port
Conducted Output Power	0.339W (25.3dBm)
6dB Bandwidth	17.822MHz
Occupied Bandwidth (99% CBW)	17.744MHz
EUT #2 (for Radiated Measurements)	
Product Description	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Software/Firmware Version	Release 1.0
Device Type	Digitally Modulated Transmission Device
Band of Operation	2400 – 2483.5MHz
Modulation Type	WiFi (802.11b/g/n)
Antenna Type	Trace
EIRP	2.951W (34.7dBm)

3. Power Input

The EUTs obtained 115V 60Hz power via a 3 wire, 1 meter, unshielded power cord.

4. Grounding

The EUTs were connected to ground through the third wire of its input power cord.

5. Support Equipment

The EUTs were submitted for testing along with the following support equipment:

Description	Model #	S/N
Laptop	--	--

6. Interconnect Leads

The following interconnect cables were submitted with the EUTs:

Item	Description
USB to Serial Cable	Connects laptop to EUT

7. Modifications Made to the EUT

No modifications were made to the EUTs during the testing.

8. Modes of Operation

The EUTs and all peripheral equipment were energized. The DUTs were programmed to transmit in one of the following modes:

Mode	Description
802.11b 11Mbps	- 2412MHz, Power Setting = 102 - 2437MHz, Power Setting = 100 - 2462MHz, Power Setting = 99
802.11g 54Mbps	- 2412MHz, Power Setting = 96 - 2437MHz, Power Setting = 94 - 2462MHz, Power Setting = 86
802.11n MCS7	- 2412MHz, Power Setting = 92 - 2437MHz, Power Setting = 90 - 2462MHz, Power Setting = 87

9. Test Specifications

The tests were performed to selected portions of, and in accordance with the test specifications.

- Federal Communications Commission "Code of Federal Regulations", Title 47, Chapter I, Subchapter A, Part 15, Subpart C – "Intentional Radiators"
- KDB 558074 D01 v05r02, April 2, 2019 – "Guidance For Compliance Measurements On Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under Section 15.247 of the FCC Rules"
- Radio Standard Specification RSS-Gen Issue 5, Amendment 2 (February 2020) – "General Requirements for Compliance of Radio Apparatus"
- Radio Standard Specification RSS-247 Issue 3 (August 2023) – "Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices"
- ANSI C63.10-2020+Cor. 1:2023+C63.10a:2024 – "American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices"

10. Test Plan

No test plan was provided. Instructions were provided by personnel from The Chamberlain Group LLC and used in conjunction with the FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.247, Innovation, Science, and Economic Development Canada, RSS-247, and ANSI C63.10-2020 specifications.

11. Deviation, Additions to, or Exclusions from Test Specifications

There were no deviations, additions to, or exclusions from the test specifications during this test series.

12. Laboratory Conditions

The ambient parameters of the laboratory during testing were as follows:

Ambient Parameters	Value
Temperature	21.9°C
Relative Humidity	42%
Atmospheric Pressure	1016mb

13. Summary

The following EMC tests were performed and the results are shown below:

DTS Transmitter Tests				
Test Description	Requirements	Test Method	S/N	Results
Transmitter Conducted Emissions (AC Mains)	FCC 15.207 ISED RSS-GEN	ANSI C63.10:2020	L2-ESL-05	Conforms ⁽¹⁾
6dB Bandwidth	FCC 15.247	C63.10:2020	L2-ESL-06	Conforms
99% Bandwidth	ISED RSS-247	C63.10:2020	L2-ESL-06	---
Output Power	FCC 15.247 ISED RSS-GEN	C63.10:2020	L2-ESL-06	Conforms
Power Spectral Density	FCC 15.247 ISED RSS-247	C63.10:2020	L2-ESL-06	Conforms
Low Band Edge	FCC 15.247 ISED RSS-247	C63.10:2020	L2-ESL-06	Conforms
EIRP	FCC 15.247 ISED RSS-247	C63.10:2020	L2-ESL-05	Conforms
Spurious Radiated Emissions	FCC 15.247 ISED RSS-247	C63.10:2020	L2-ESL-05	Conforms
High Band Edge	FCC 15.247 ISED RSS-247	C63.10:2020	L2-ESL-05	Conforms

Note 1: Conducted emissions measurements can be found in ETR2600113-01.

14. Sample Calculations

For Radiated Emissions:

The resultant field strength (FS) is a summation in decibels (dB) of the receiver meter reading (MTR), the antenna correction factor (AF), and the cable loss factor (CF). If an external preamplifier is used, the total is reduced by its gain (-PA). If a distance correction (DC) is required, it is added to the total.

$$\text{Formula 1: FS (dB}\mu\text{V/m)} = \text{MTR (dB}\mu\text{V)} + \text{AF (dB/m)} + \text{CF (dB)} + (-\text{PA (dB)}) + \text{DC (dB)}$$

To convert the Field Strength dB μ V/m term to μ V/m, the dB μ V/m is first divided by 20. The

Base 10 AntiLog is taken of this quotient. The result is the Field Strength value in $\mu\text{V/m}$ terms.

$$\text{Formula 2: FS } (\mu\text{V/m}) = \text{AntiLog} [(FS \text{ (dB}\mu\text{V/m)})/20]$$

15. Statement of Conformity

The The Chamberlain Group LLC Link 2.0 (Model No. RTL8720CS, Serial Numbers L2-ESL-06 and L2-ESL-05) did fully conform to the selected requirements of FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.247 and Innovation, Science, and Economic Development Canada, RSS-247.

16. Certification

Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.247 and Innovation, Science, and Economic Development Canada, RSS-247 test specifications. The data presented in this test report pertains to the EUTs on the test date specified. Any electrical or mechanical modifications made to the EUTs subsequent to the specified test date will serve to invalidate the data and void this certification.

17. Photographs of EUT



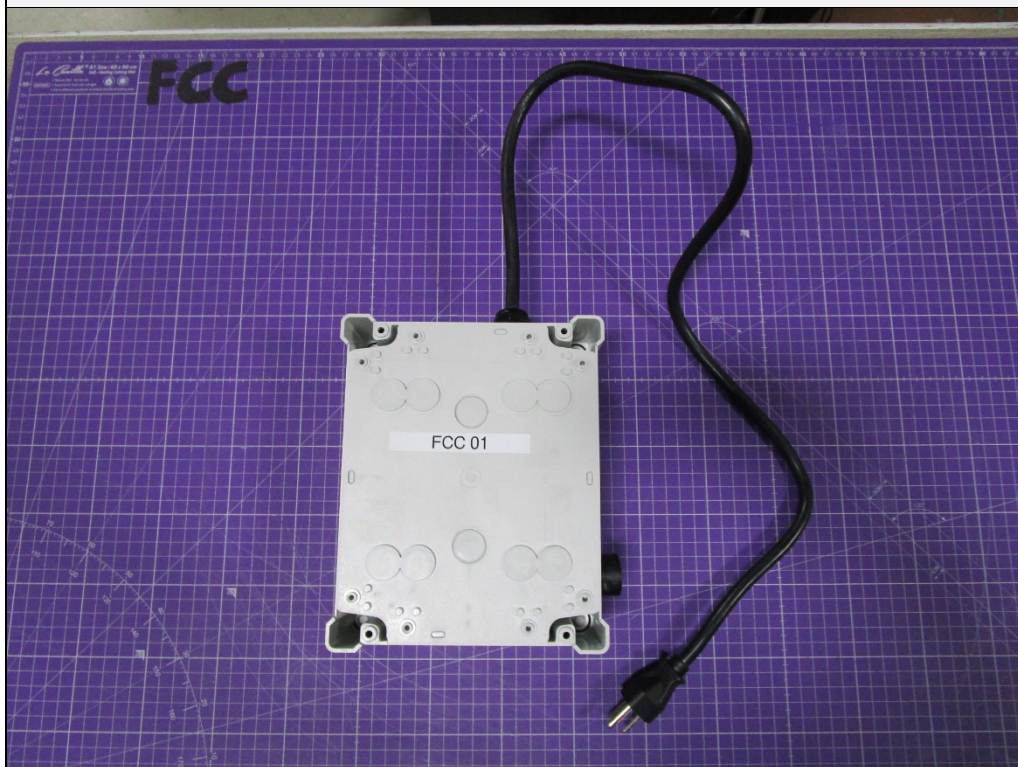
L2-ESL-05, Front



L2-ESL-05, Side



L2-ESL-05, Top



L2-ESL-05, Back



L2-ESL-06, Front



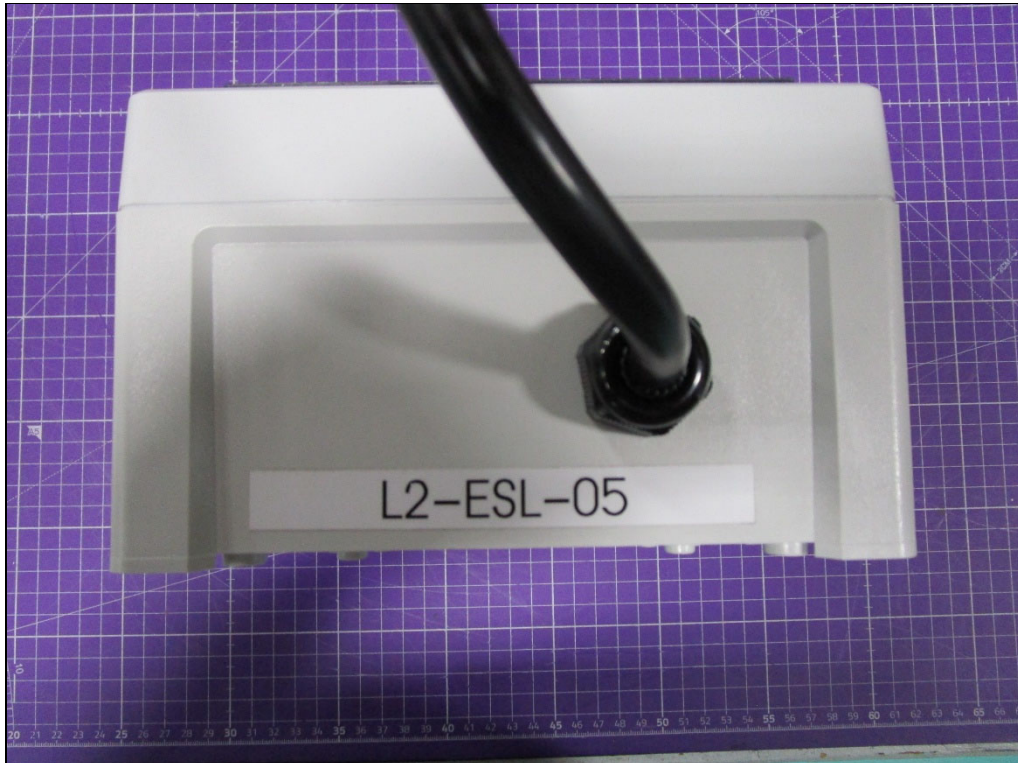
L2-ESL-06, Side



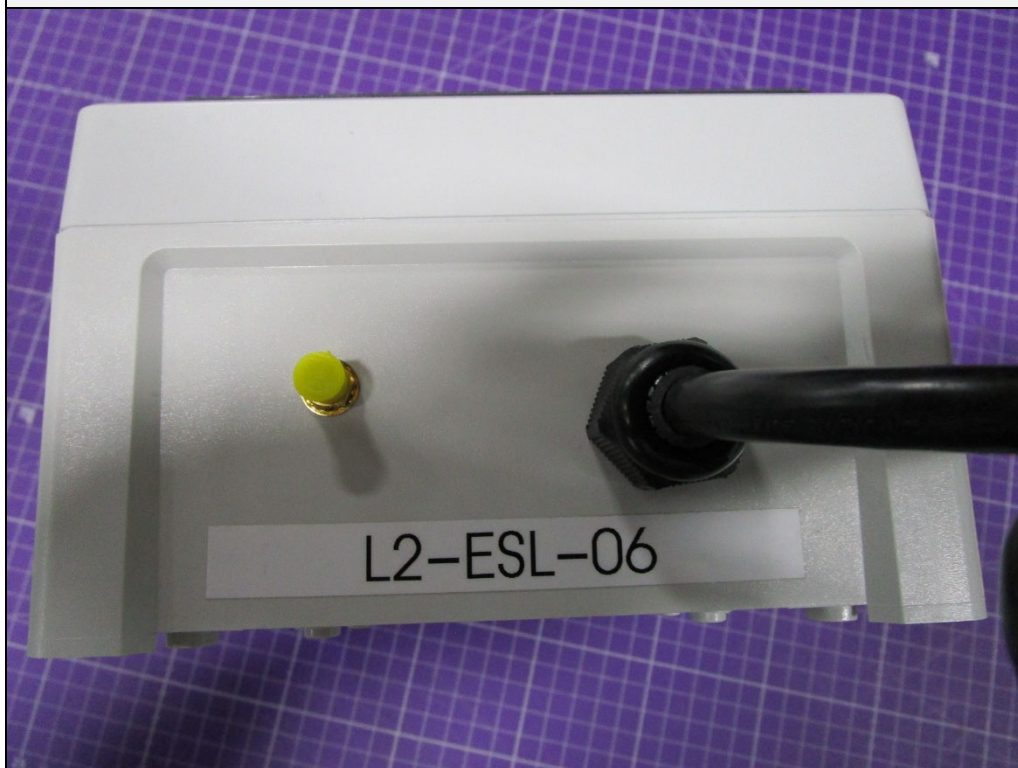
L2-ESL-06, Top



L2-ESL-06, Back



L2-ESL-05 S/N



L2-ESL-06 S/N

18. Equipment List

Eq ID	Equipment Description	Manufacturer	Model No.	Serial No.	Frequency Range	Cal Date	Due Date
APW10	Preamplifier	Planar	PE2-35-120-5R0-10-12-SFF	PL11685/1241	1-18GHz	3/18/2026	3/18/2027
APW18	Preamplifier	Planar	PE2-30-20G20R6G-3R0-10-12-SFF	PL34312/2148	18-26.5GHz	3/31/2026	3/31/2027
CDM5	Lab Computer	ELITE		---	---	N/A	
CDM6	Lab Computer	ELITE		---	---	N/A	
GSD7	SIGNAL GENERATOR	ROHDE & SCHWARZ	SMB100A	115256	9KHZ-6GHZ	2/19/2026	2/19/2028
GSFB	OSP-B157W BASE UNIT	ROHDE & SCHWARZ	OSP-B157W	101071	---	9/2/2025	9/2/2027
GSFE	OSP120	ROHDE & SCHWARZ	OSP120	102278	.01-40GHZ	7/22/2025	7/22/2027
MDB4	MULTIMETER (J. GALLET)	FLUKE CORPORATION	177	81240018	I,VAC,VDC,R	2/16/2026	2/16/2027
NHG1	STANDARD GAIN HORN ANTENNA	NARDA	638	---	18-26.5GHZ	NOTE 1	
NSDS1	UNIVERSAL SPHERICAL DIPOLE SOURCE	AET	USDS-H	AET-1116		NOTE 1	
NTA2	BILOG ANTENNA	TESEQ	6112D	28040	25-2000MHz	6/21/2024	6/21/2026
NWQ0	DOUBLE RIDGED WAVEGUIDE ANTENNA	ETS LINDGREN	3117	66657	1GHZ-18GHZ	6/24/2024	6/24/2026
R29F	3M ANECHOIC CHAMBER NSA	EMC TEST SYSTEMS	3M ANECHOIC		30MHZ-18GHZ	6/1/2025	6/1/2027
RBG2	EMI Analyzer	Rohde & Schwarz	ESW44	101591	2HZ-44GHZ	12/12/2025	12/12/2026
RBG4	EMI Analyzer	Rohde & Schwarz	ESW44	103007	2HZ-44GHZ	3/17/2026	3/17/2027
SES0	24VDC POWER SUPPLY	P-TRANS	FS-32024-1M	001	18-27VDC	NOTE 1	
XPQ4	HIGH PASS FILTER	K&L MICROWAVE	11SH10-4800/X20000-O/O	1	4.8-20GHZ	9/16/2025	9/16/2027

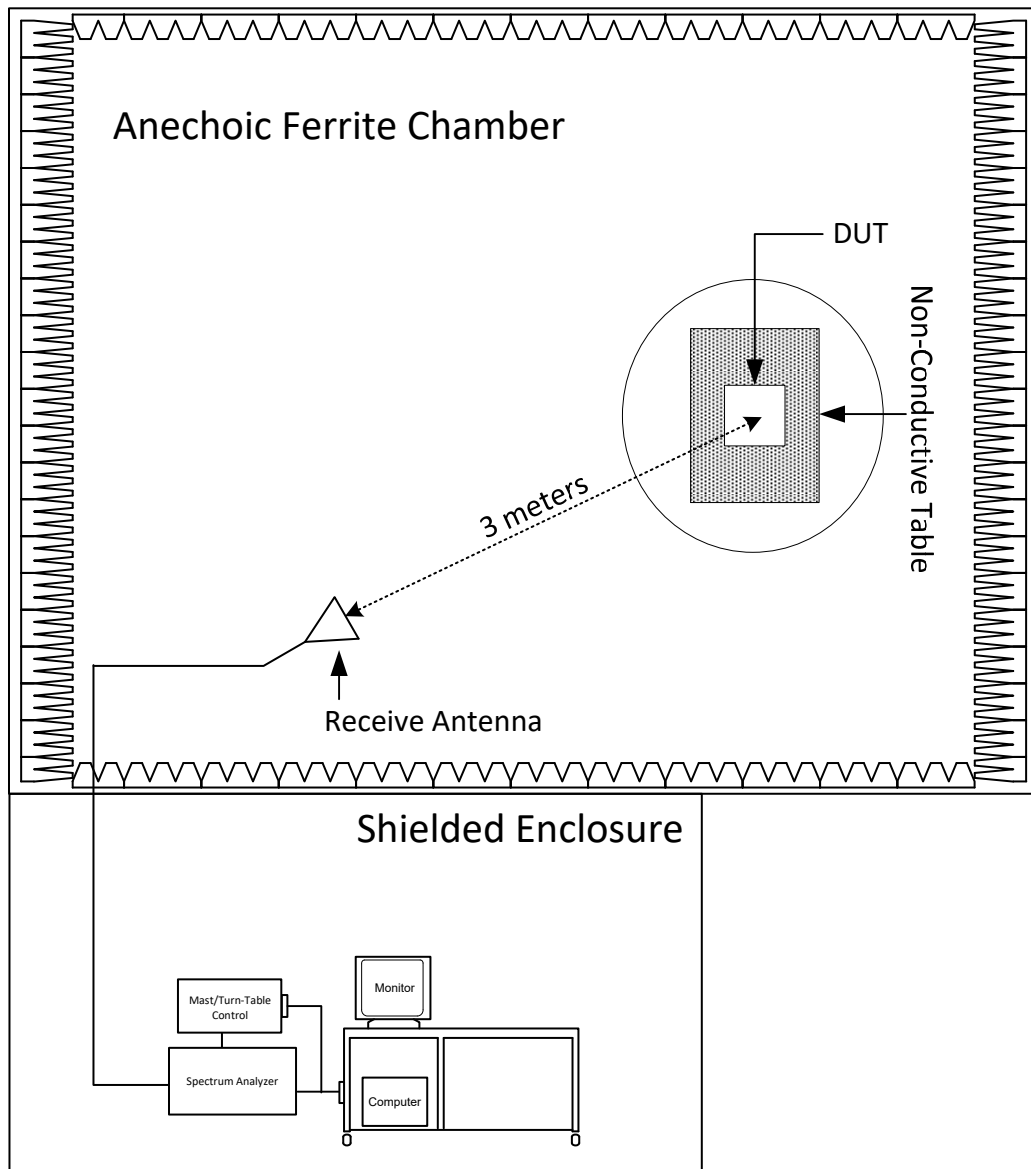
N/A: Not Applicable

I/O: Initial Only

CNR: Calibration Not Required

NOTE 1: For the purpose of this test, the equipment was calibrated over the specified frequency range, pulse rate, or modulation prior to the test or monitored by a calibrated instrument.

19. Block Diagram of Test Setup



Radiated Measurements Test Setup

20. Antenna Port Conducted Emissions Tests

Test Information	
Manufacturer	The Chamberlain Group LLC
Product	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-06
Mode	802.11b 11Mbps, 802.11g 54Mbps, 802.11n MCS7

Test Setup Details	
Setup Format	Tabletop
Type of Test Site	EMC Bench
Note	None

Measurement Uncertainty	
Measurement Type	Expanded Measurement Uncertainty
Occupied Channel Bandwidth	$\pm 224\text{kHz}$
Power Spectral Density	$\pm 0.372\text{Hz}$
RF Output Power, Conducted	$\pm 0.349\text{ dB}$
Unwanted Emissions, Conducted	$\pm 1.39\text{ dB}$
All Emissions Radiated Below 1GHz	$\pm 2.629\text{ dB}$
All Emissions Radiated Above 1GHz	$\pm 2.710\text{ dB}$
Temperature	$\pm 0.165^{\circ}\text{C}$
Humidity	$\pm 1.7\%\text{ RH}$
DC and Low Frequency Voltages	$\pm 0.115\text{ Volts}$
Time	$\pm 0.05\%$

DTS Requirements
<u>6dB Bandwidth (DTS Bandwidth):</u> Per FCC 15.247, Section (a)(2), and ISSED RSS-247, Section 5.2(a), the minimum 6dB bandwidth shall be at least 500kHz for all systems using digital modulation techniques.
<u>99% Bandwidth:</u> RSS-Gen requires the measurement of the 99% bandwidth (Occupied Bandwidth).
<u>Peak Conducted Output Power:</u> Per FCC 15.247, Section (b)(3) and ISSED RSS-247, Section 5.4(d), for systems using digital modulation, the maximum peak conducted output power shall not exceed 1 watt.
<u>Peak Power Spectral Density:</u> Per FCC 15.247, Section (e), and ISSED RSS-247, Section 5.2(b), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. If peak conducted output power was measured, the same method must be used to measure the power spectral density.
<u>Low Band Edge:</u> Per FCC 15.247, Section (d) and ISSED RSS-247, Section 5.5, in any 100 kHz bandwidth outside the frequency band in which the digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. Attenuation below the general limits specified in FCC 15.209, Section (a) and ISSED RSS-Gen is not required.

DTS Procedures
<u>6dB Bandwidth (DTS Bandwidth):</u> C63.10-2020 Section 11.8 Option 1: - The following settings were employed on the EMI Test Receiver: - Center Frequency = Transmit Frequency of the EUT - Frequency Span = 2 x Occupied Channel Bandwidth - RBW = 100kHz - VBW = 3 x RBW - Detector Mode = Max Peak - Trace Mode = Max Hold - Allow the trace to stabilize. - Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). - Determine the 6dB down amplitude. - Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope trace, such that each marker is at or slightly below the 6dB down amplitude determined in step d). If a marker is below this 6dB down amplitude value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers.

99% Bandwidth:

C63.10-2020 section 6.9.3:

- a) The following settings were employed on the EMI Test Receiver:
- Center Frequency = Transmit Frequency of the EUT
 - Frequency Span = Between 1.5 and 5 times the OBW
 - RBW = Between 1% to 5% of the OBW
 - VBW = Approximately 3 x RBW
 - Detector Mode = Max Peak
 - Trace Mode = Max Hold
- b) Allow the trace to stabilize.
- c) Use the 99% power bandwidth function of the EMI receiver.

Peak Conducted Output Power:

C63.10-2020 section 11.9.1.1:

- a) The following settings were employed on the EMI Test Receiver:
- Center Frequency = Transmit Frequency of the EUT
 - RBW = $\geq$ DTS Bandwidth
 - VBW = $\geq 3 \times$ RBW
 - Span = $\geq 3 \times$ RBW
 - Sweep Time = Auto couple
 - Detector Mode = Max Peak
 - Trace Mode = Max Hold
- b) Allow the trace to stabilize.
- c) Use the peak marker function to determine the peak amplitude level.

Peak Power Spectral Density:

C63.10-20013 section 11.10.2:

- a) The following settings were employed on the EMI Test Receiver:
- Center Frequency = Transmit Frequency of the EUT
 - Frequency Span = At least 1.5 times the OBW
 - RBW = $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$
 - VBW = $\geq 3 \times$ RBW
 - Detector Mode = Max Peak
 - Sweep Time = Auto Couple
 - Trace Mode = Max Hold
- b) Allow the trace to stabilize.
- c) Use the peak marker function to determine the maximum amplitude level within the RBW.
- d) If measured value exceeds requirement, then reduce RBW (but no less than 3kHz) and repeat.

Low Band Edge:

C63.10-2020 section 11.11:

- a) Reference Level Measurement
- Start Frequency = 2400MHz

- Stop Frequency = 2483.5MHz
- RBW = 100kHz
- VBW = $\geq 3 \times \text{RBW}$
- Detector Mode = Max Peak
- Trace Mode = Max Hold
- Sweep Time = Auto

b) Allow the trace to stabilize and use the peak marker function to determine the maximum level.

c) Emission Level Measurement

- Start Frequency = 2310MHz
- Stop Frequency = 2400MHz
- RBW = 100kHz
- VBW = $\geq 3 \times \text{RBW}$
- Detector Mode = Max Peak
- Trace Mode = Max Hold
- Sweep Time = Auto

d) Allow the trace to stabilize and use the peak marker function to determine the maximum level.

e) The two sweeps were combined and plotted.

f) Ensure that the amplitude of all unwanted emissions are attenuated by at least 20dB.

Minimum Emission Bandwidth 6 dB (802.11b; 2412 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

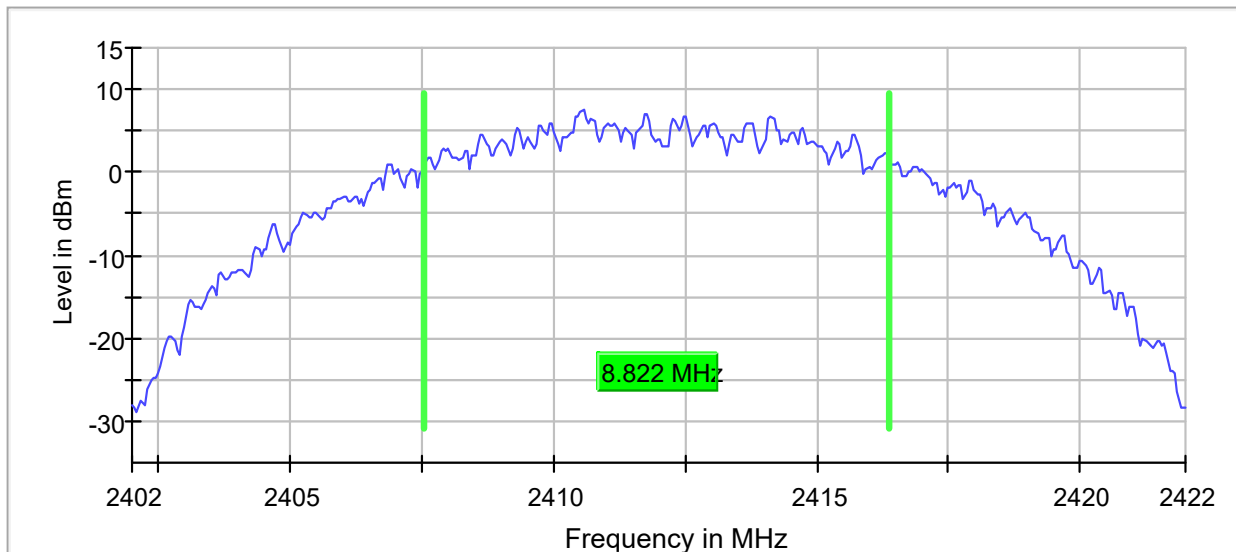
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	8.822055	0.500000	---	2407.563910	2416.385965

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	7.4	PASS

6 dB Bandwidth



Bandwidth

Peak output power (Sweep) (802.11b; 2412 MHz; 0.000 dBm; 10 MHz)

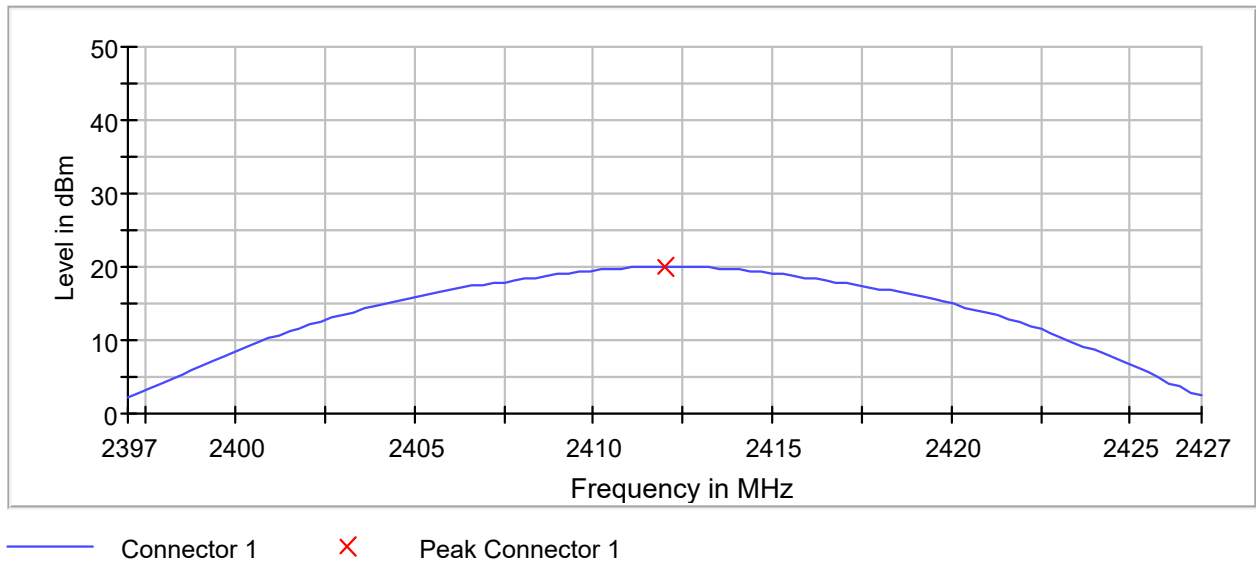
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.9.1.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2412.000000	20.0	30.0	PASS

Peak Power



Peak Power 1

Peak Power Spectral Density (802.11b; 2412 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v05r02 F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

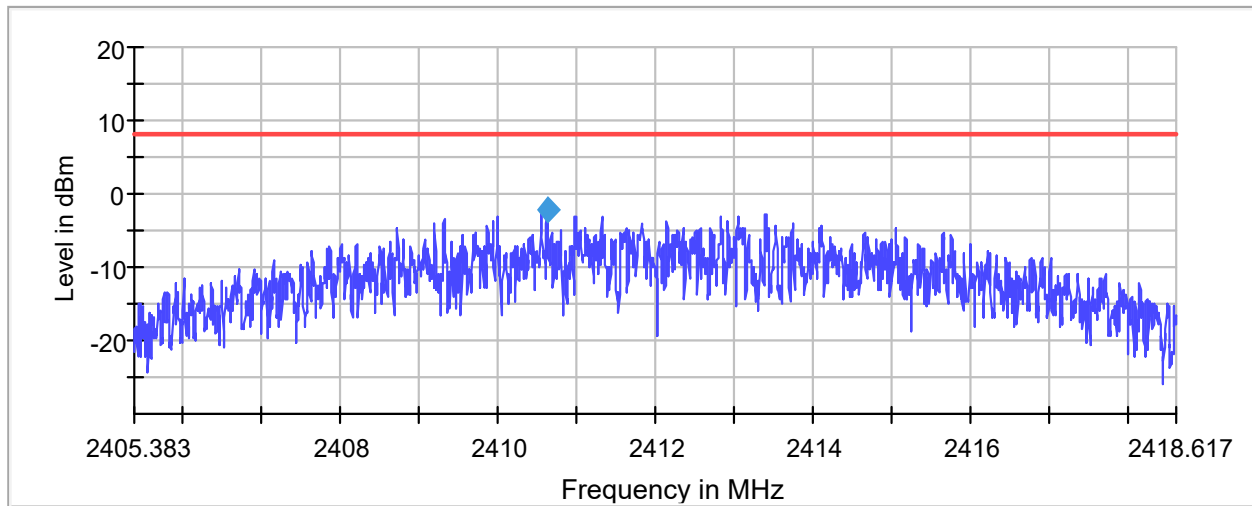
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2410.629681	-2.153	8.0	PASS

Ports

Port	State
1	used

Peak Power Spectral Density



— Limit — Sum Level ◆ PSD

PSD Connector 1

Occupied Channel Bandwidth 99% (802.11b; 2412 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

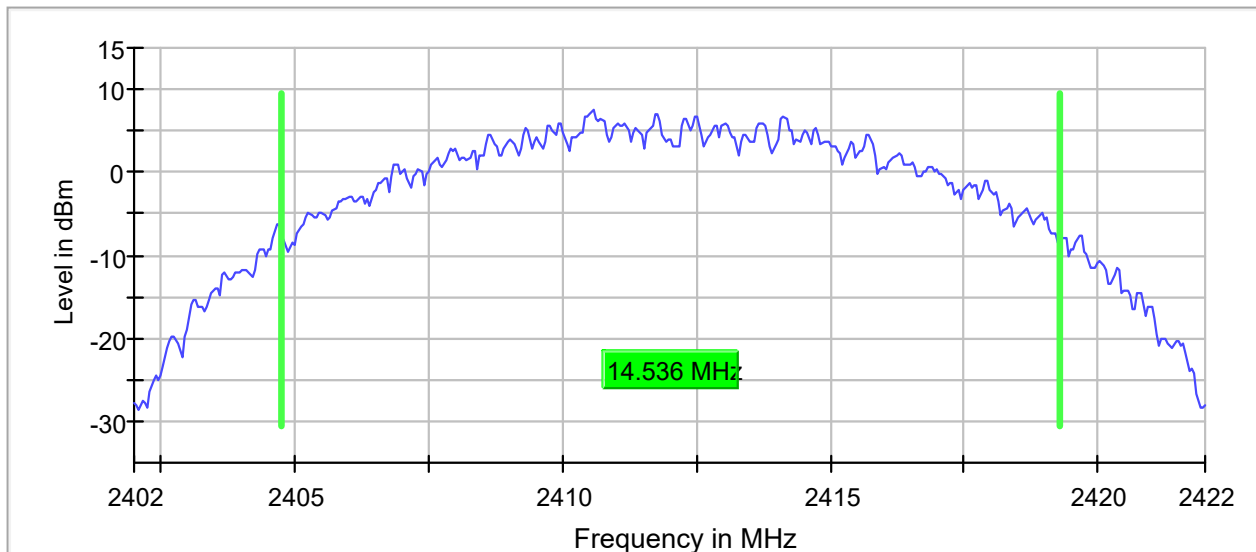
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	14.536341	---	---	2404.756892	2419.293233

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2412.000000	PASS

99 % Bandwidth



Bandwidth

Band Edge low (802.11b; 2412 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05r02 8.7 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 0.8 dB

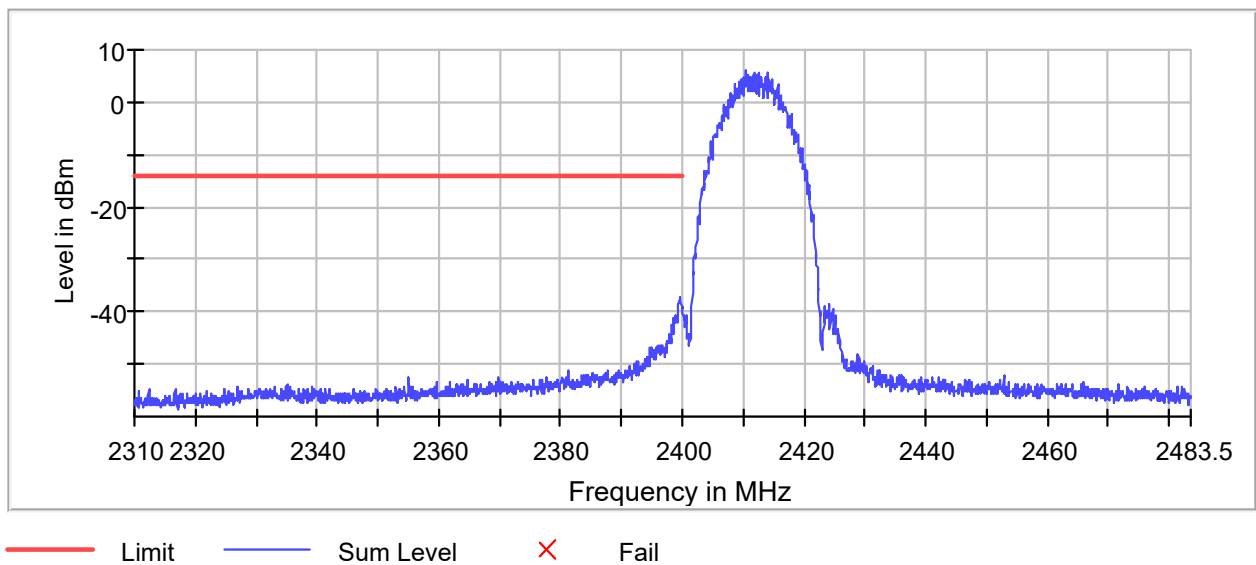
Result

DUT Frequency (MHz)	Result
2412.000000	PASS

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.549750	-37.3	23.4	-13.9	PASS
2399.599778	-37.4	23.5	-13.9	PASS
2399.699833	-37.5	23.5	-13.9	PASS
2399.449694	-37.8	23.8	-13.9	PASS
2399.649805	-37.8	23.8	-13.9	PASS
2399.749861	-37.9	23.9	-13.9	PASS
2399.799889	-38.0	24.1	-13.9	PASS
2399.499722	-38.1	24.1	-13.9	PASS
2399.399666	-38.5	24.5	-13.9	PASS
2399.849917	-38.8	24.9	-13.9	PASS
2399.949972	-39.1	25.1	-13.9	PASS
2399.349639	-39.4	25.5	-13.9	PASS
2399.899944	-39.5	25.6	-13.9	PASS
2399.299611	-39.6	25.7	-13.9	PASS
2399.249583	-40.2	26.2	-13.9	PASS

Band Edge



Minimum Emission Bandwidth 6 dB (802.11b; 2437 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

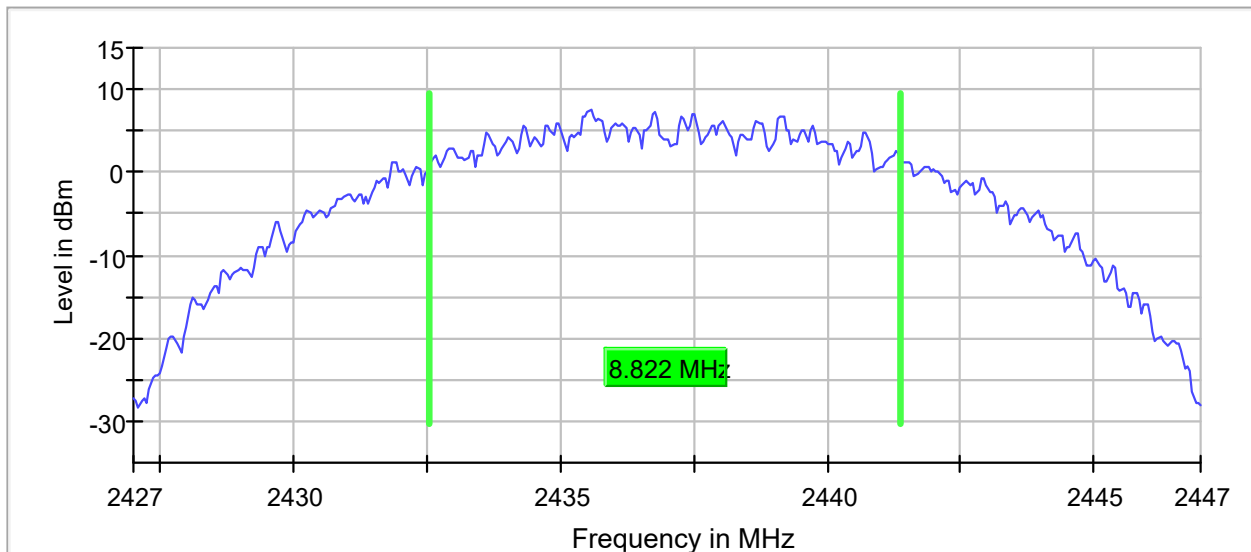
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	8.822055	0.500000	---	2432.563910	2441.385965

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	7.5	PASS

6 dB Bandwidth



Bandwidth

Peak output power (Sweep) (802.11b; 2437 MHz; 0.000 dBm; 10 MHz)

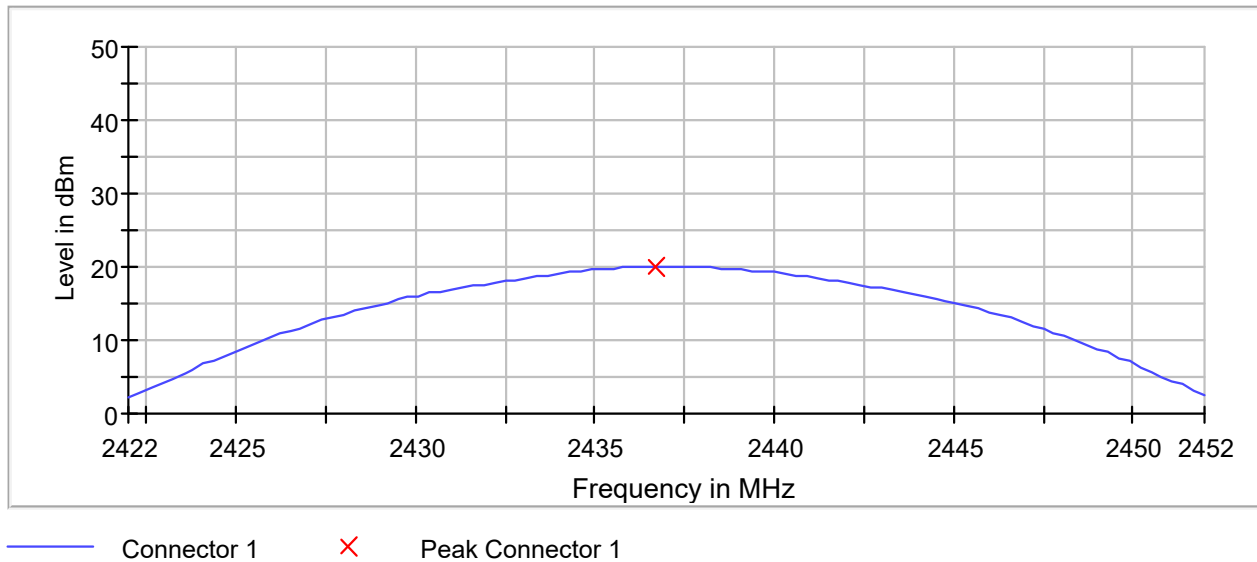
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.9.1.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2437.000000	20.0	30.0	PASS

Peak Power



Peak Power 1

Peak Power Spectral Density (802.11b; 2437 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v05r02 F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

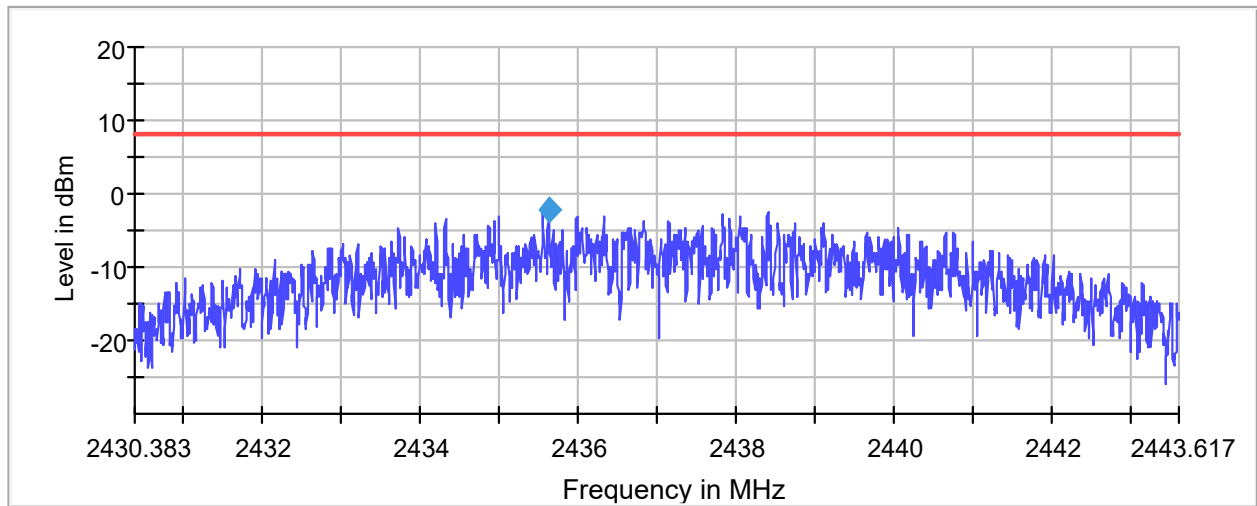
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2435.629681	-2.094	8.0	PASS

Ports

Port	State
1	used

Peak Power Spectral Density



— Limit — Sum Level ◆ PSD

PSD Connector 1

Occupied Channel Bandwidth 99% (802.11b; 2437 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

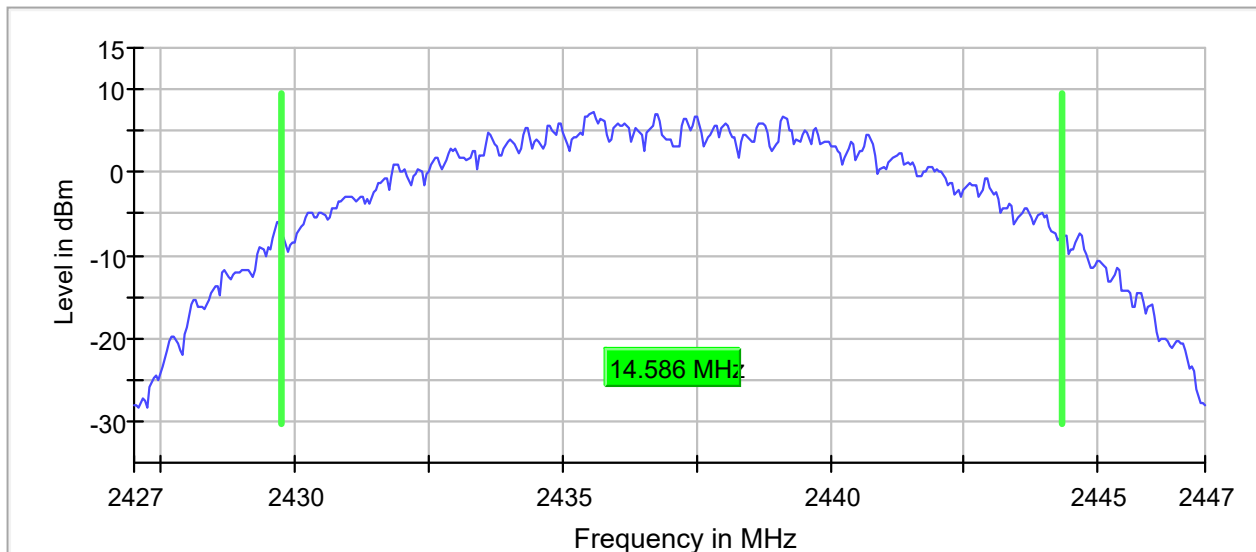
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	14.586466	---	---	2429.756892	2444.343358

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2437.000000	PASS

99 % Bandwidth



Bandwidth

Minimum Emission Bandwidth 6 dB (802.11b; 2462 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

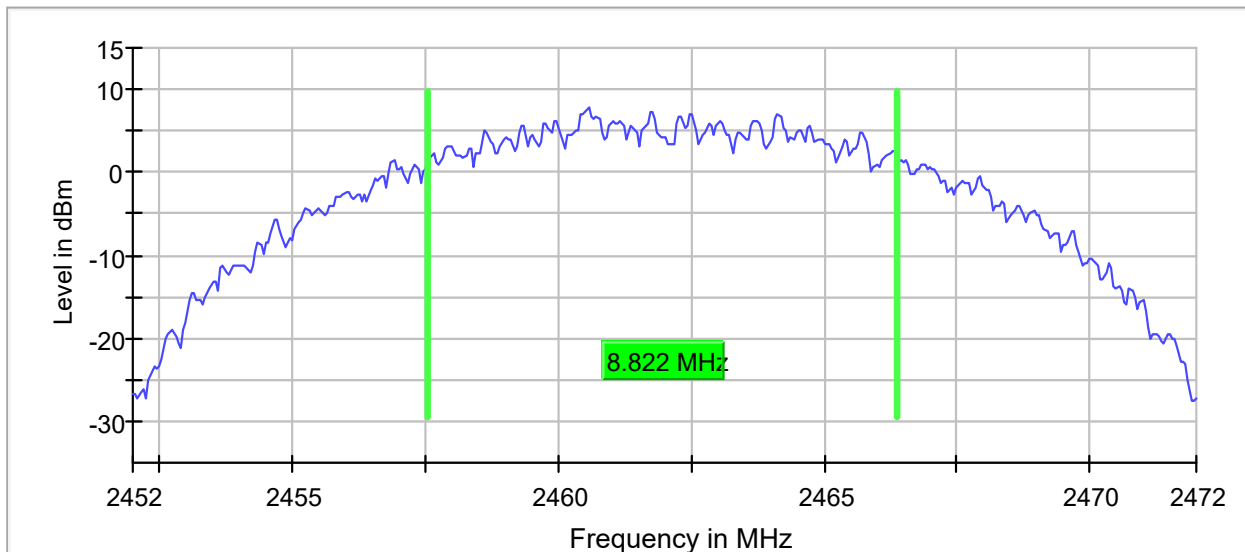
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	8.822055	0.500000	---	2457.563910	2466.385965

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	7.7	PASS

6 dB Bandwidth



Bandwidth

Peak output power (Sweep) (802.11b; 2462 MHz; 0.000 dBm; 10 MHz)

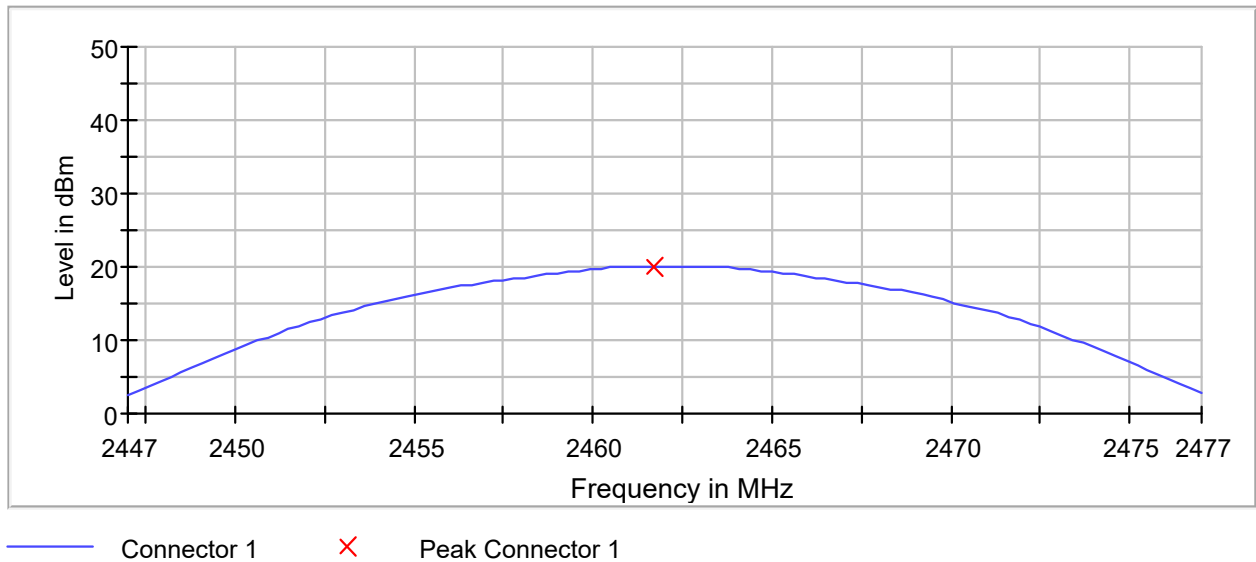
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.9.1.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2462.000000	20.1	30.0	PASS

Peak Power



Peak Power 1

Peak Power Spectral Density (802.11b; 2462 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v05r02 F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

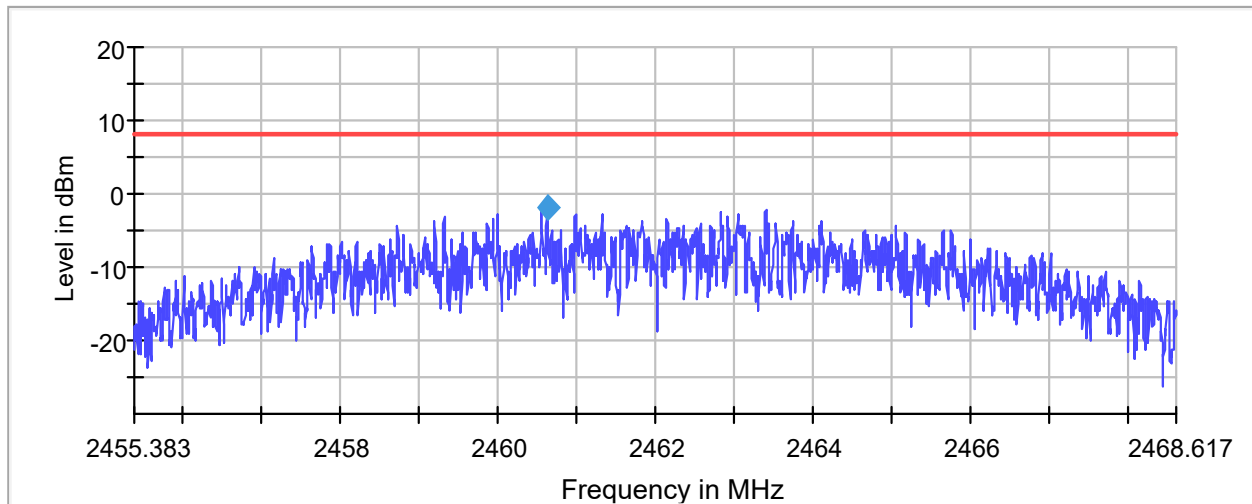
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2460.629681	-1.895	8.0	PASS

Ports

Port	State
1	used

Peak Power Spectral Density



— Limit — Sum Level ◆ PSD

PSD Connector 1

Occupied Channel Bandwidth 99% (802.11b; 2462 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

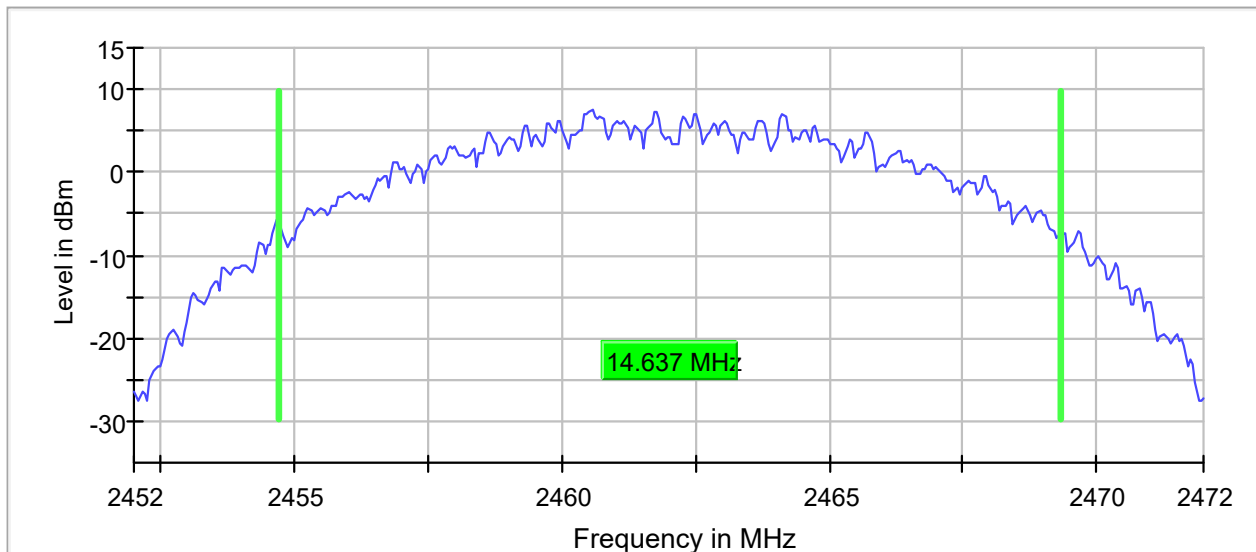
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	14.636591	---	---	2454.706767	2469.343358

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2462.000000	PASS

99 % Bandwidth



Bandwidth

Minimum Emission Bandwidth 6 dB (802.11g; 2412 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

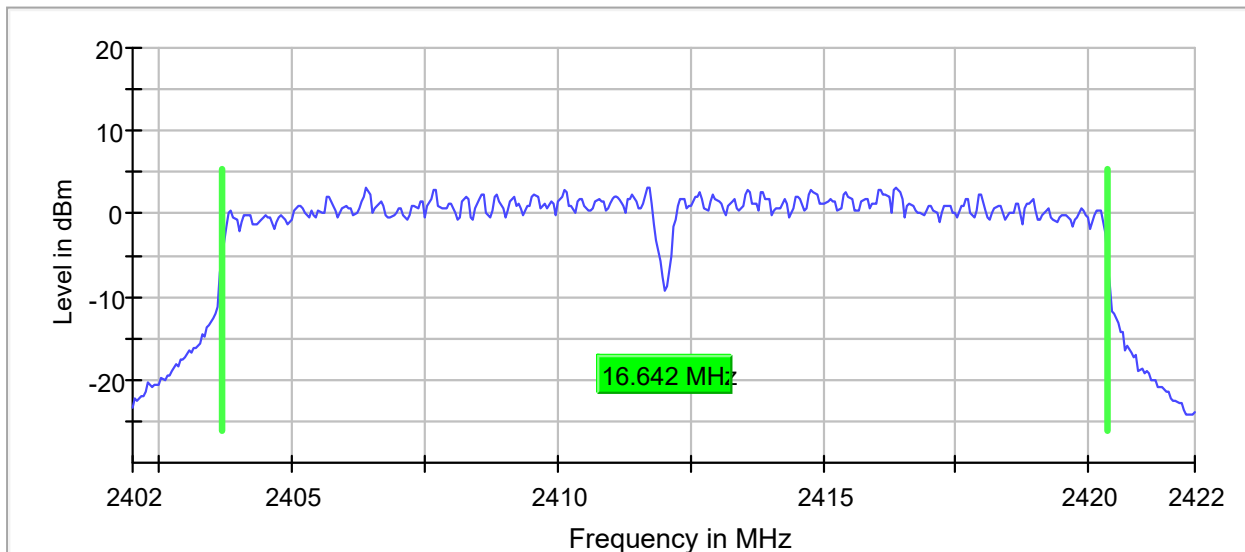
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	16.641604	0.500000	---	2403.704261	2420.345865

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	3.3	PASS

6 dB Bandwidth



Bandwidth

Max Stable Difference	0.10 dB	0.50 dB
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Peak output power (Sweep) (802.11g; 2412 MHz; 0.000 dBm; 10 MHz)

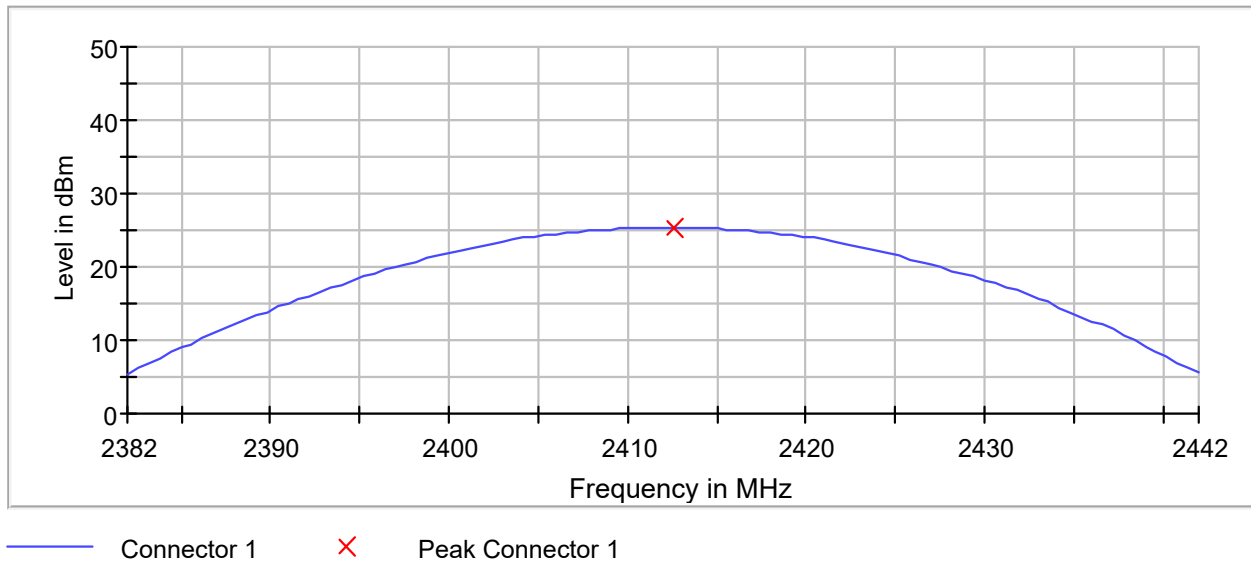
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.9.1.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2412.000000	25.3	30.0	PASS

Peak Power



Peak Power 1

Peak Power Spectral Density (802.11g; 2412 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v05r02 F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

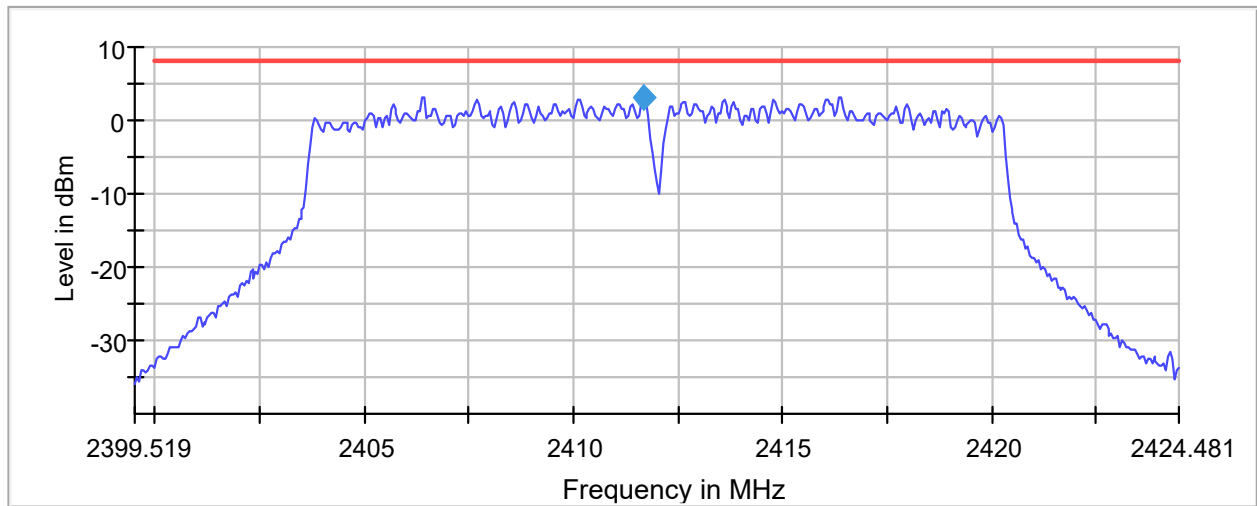
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2411.699248	3.143	8.0	PASS

Ports

Port	State
1	used

Peak Power Spectral Density



— Limit — Sum Level ◆ PSD

PSD Connector 1

Occupied Channel Bandwidth 99% (802.11g; 2412 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

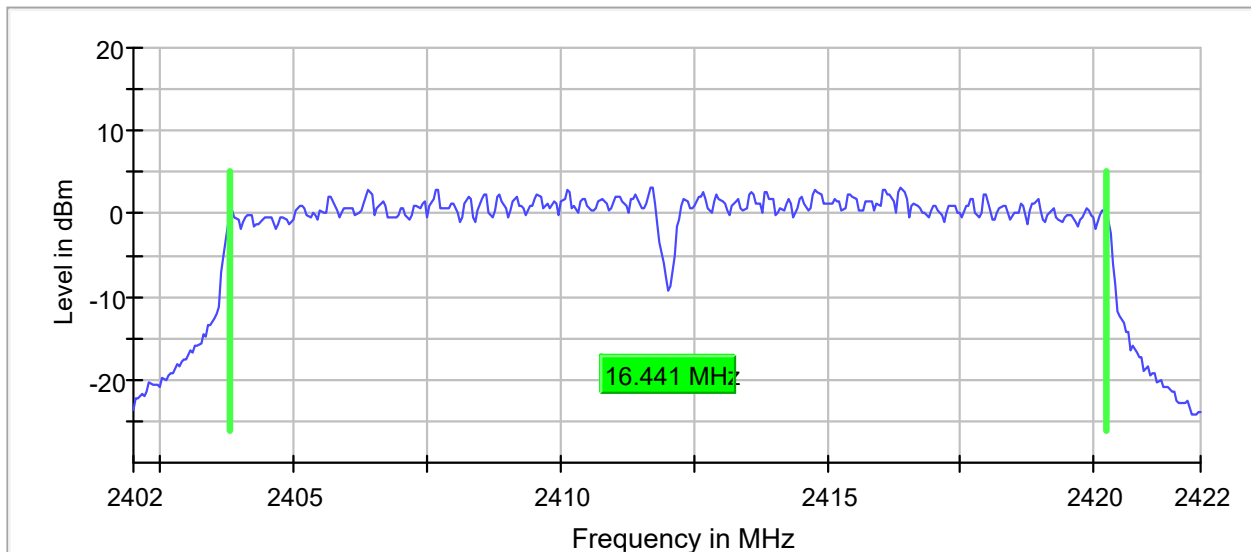
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	16.441103	---	---	2403.804511	2420.245614

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2412.000000	PASS

99 % Bandwidth



Bandwidth

Band Edge low (802.11g; 2412 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05r02 8.7 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 0.8 dB

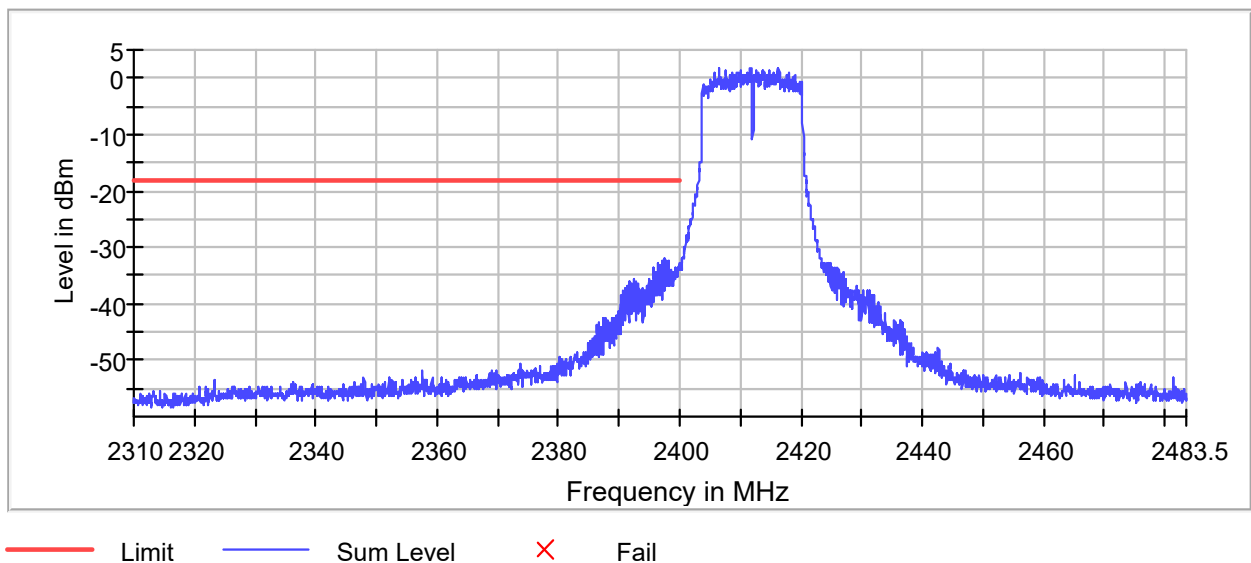
Result

DUT Frequency (MHz)	Result
2412.000000	PASS

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2397.348527	-32.2	14.1	-18.1	PASS
2397.048360	-32.3	14.2	-18.1	PASS
2396.998332	-32.3	14.2	-18.1	PASS
2397.298499	-32.4	14.3	-18.1	PASS
2398.249027	-32.4	14.3	-18.1	PASS
2398.299055	-32.5	14.3	-18.1	PASS
2397.948860	-32.5	14.4	-18.1	PASS
2399.949972	-32.6	14.5	-18.1	PASS
2397.998888	-32.8	14.7	-18.1	PASS
2399.899944	-32.9	14.8	-18.1	PASS
2396.347971	-33.0	14.9	-18.1	PASS
2396.397999	-33.0	14.9	-18.1	PASS
2396.698166	-33.1	15.0	-18.1	PASS
2397.898833	-33.2	15.1	-18.1	PASS
2399.849917	-33.4	15.3	-18.1	PASS

Band Edge



Minimum Emission Bandwidth 6 dB (802.11g; 2437 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

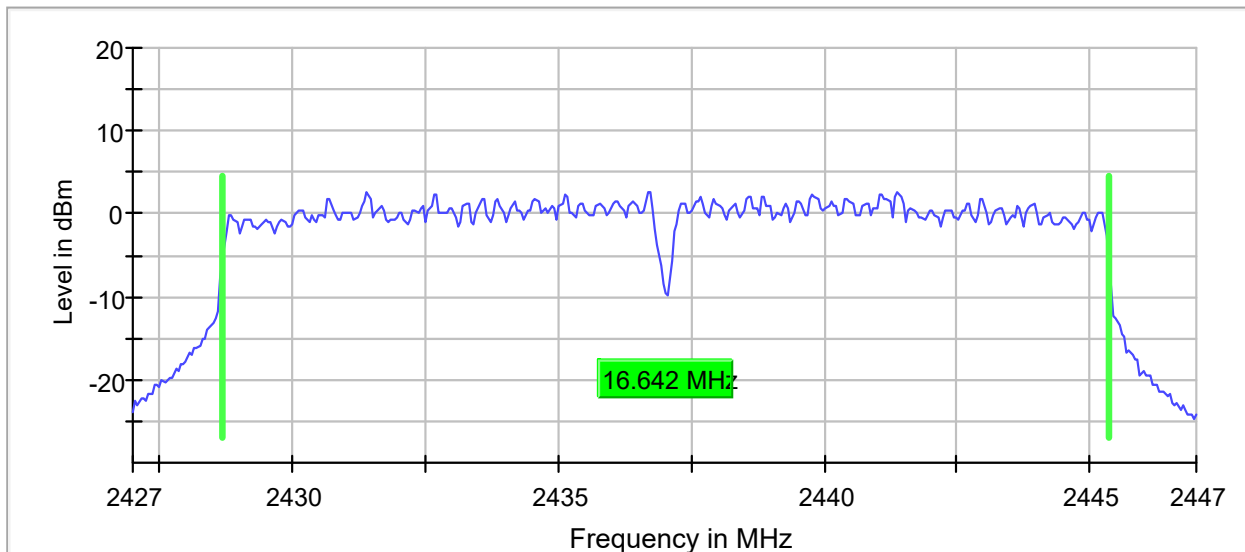
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	16.641604	0.500000	---	2428.704261	2445.345865

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	2.7	PASS

6 dB Bandwidth



Bandwidth

Peak output power (Sweep) (802.11g; 2437 MHz; 0.000 dBm; 10 MHz)

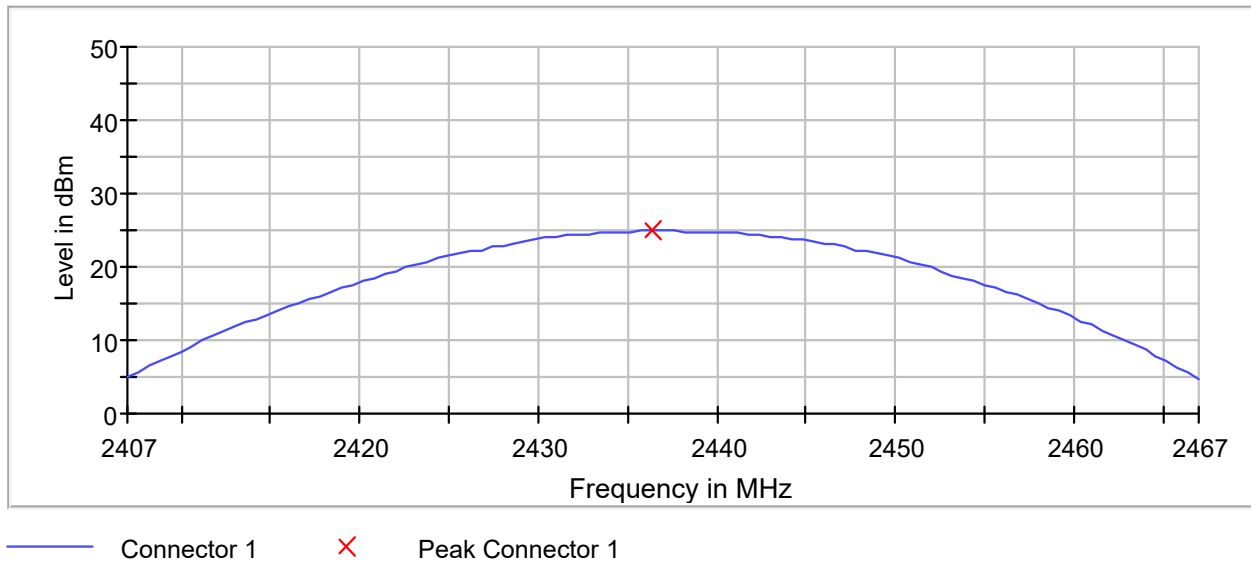
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.9.1.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2437.000000	24.9	30.0	PASS

Peak Power



Peak Power 1

Peak Power Spectral Density (802.11g; 2437 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v05r02 F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

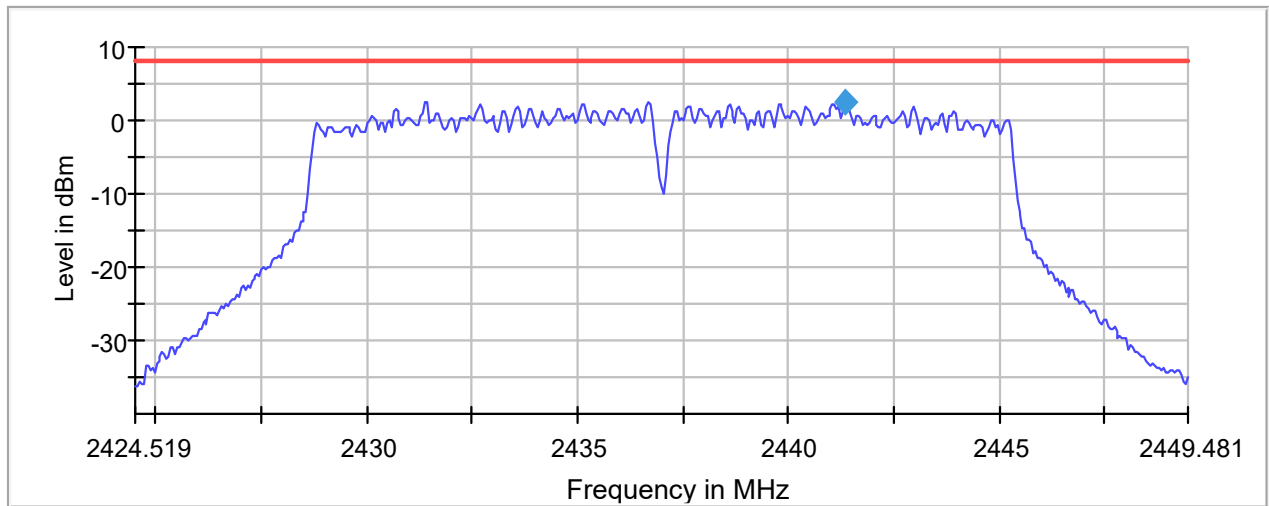
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2441.360902	2.654	8.0	PASS

Ports

Port	State
1	used

Peak Power Spectral Density



— Limit — Sum Level ◆ PSD

PSD Connector 1

Occupied Channel Bandwidth 99% (802.11g; 2437 MHz; 0.000 dBm; 10 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

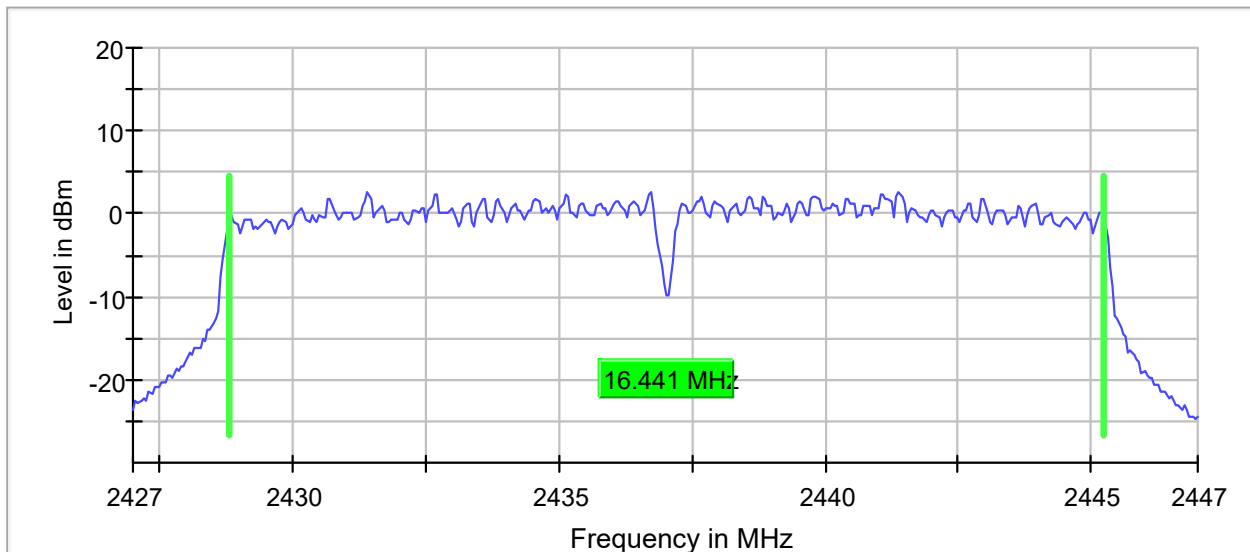
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	16.441103	---	---	2428.804511	2445.245614

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2437.000000	PASS

99 % Bandwidth



Bandwidth

Minimum Emission Bandwidth 6 dB (802.11g; 2462 MHz; 0.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

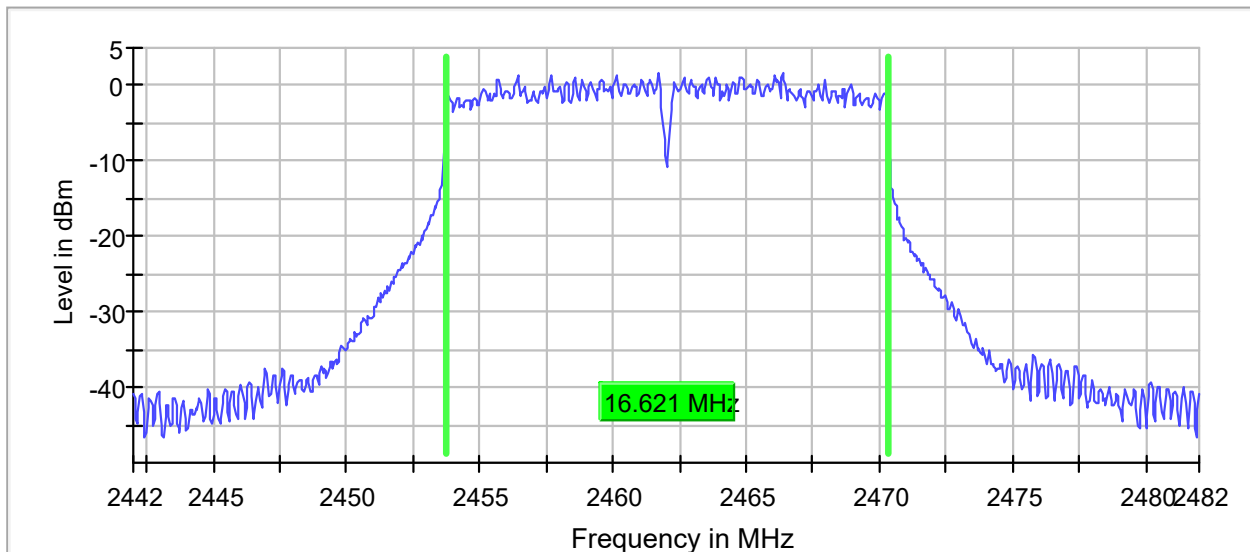
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	16.620776	0.500000	---	2453.714643	2470.335419

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	1.6	PASS

6 dB Bandwidth



Bandwidth

Peak output power (Sweep) (802.11g; 2462 MHz; 0.000 dBm; 20 MHz)

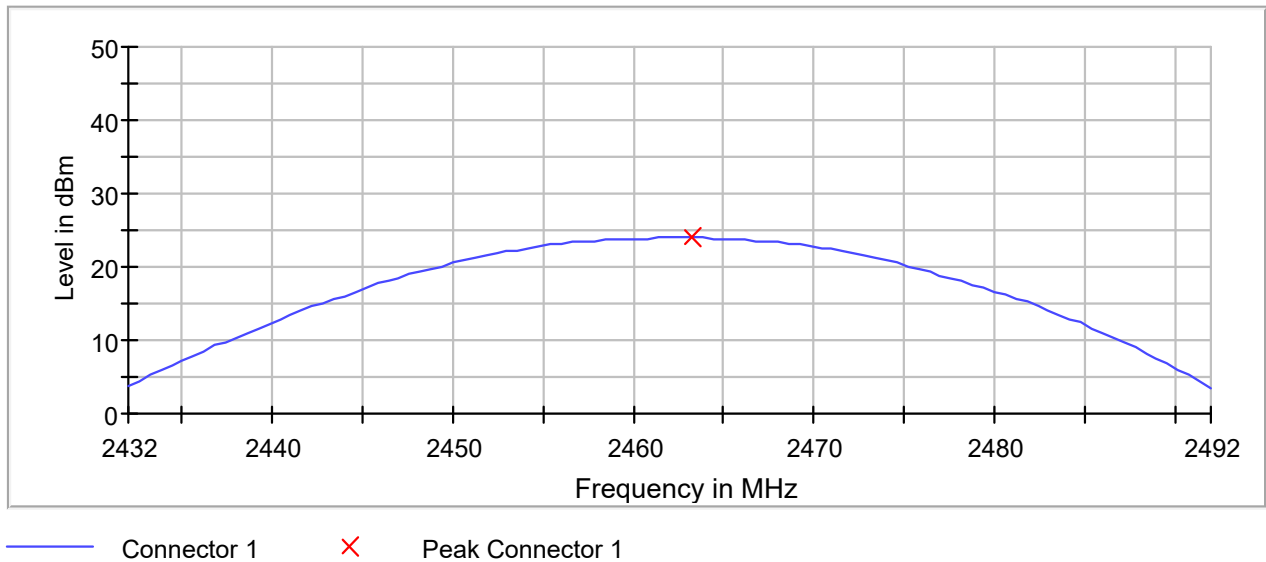
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.9.1.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2462.000000	23.9	30.0	PASS

Peak Power



Peak Power 1

Peak Power Spectral Density (802.11g; 2462 MHz; 0.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v05r02 F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

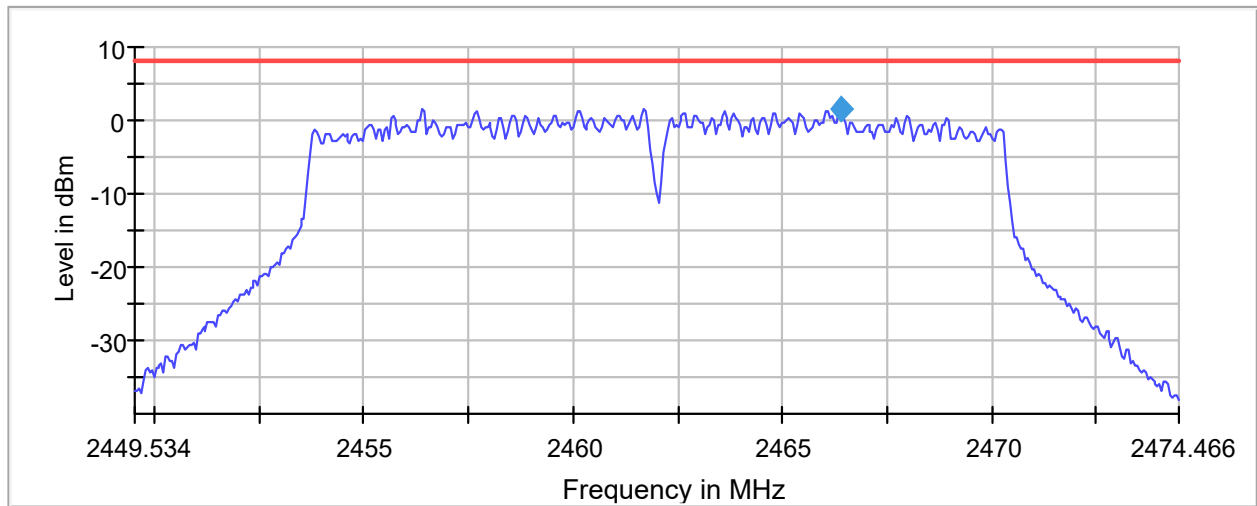
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2466.405507	1.600	8.0	PASS

Ports

Port	State
1	used

Peak Power Spectral Density



— Limit — Sum Level ◆ PSD

PSD Connector 1

Occupied Channel Bandwidth 99% (802.11g; 2462 MHz; 0.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

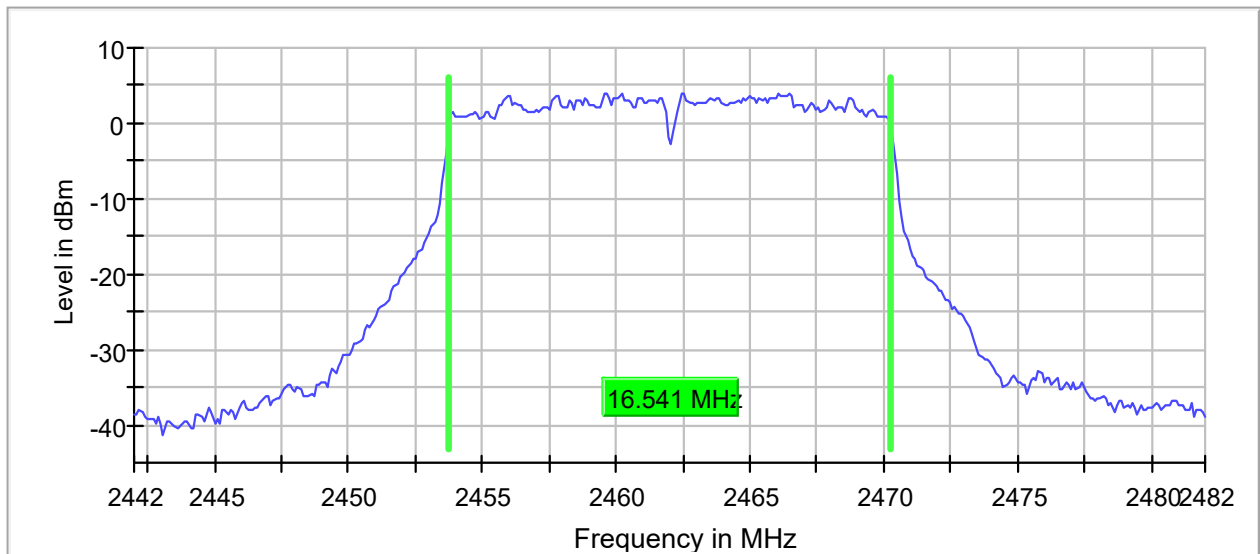
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	16.541354	---	---	2453.729323	2470.270677

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2462.000000	PASS

99 % Bandwidth



Bandwidth

Minimum Emission Bandwidth 6 dB (802.11n; 2412 MHz; 0.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

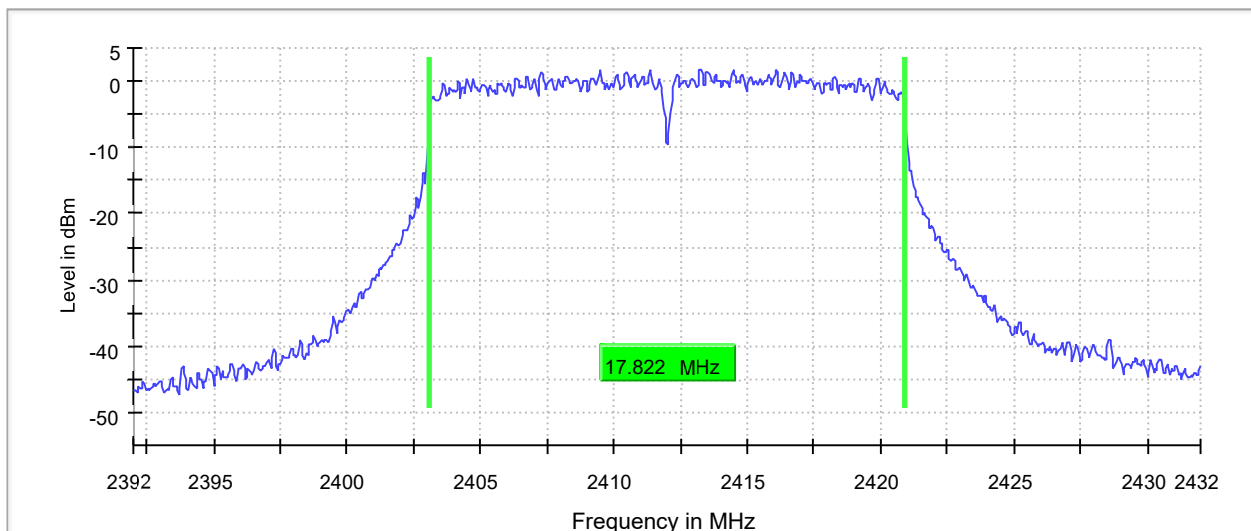
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	17.822278	0.500000	---	2403.113892	2420.936170

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	1.8	PASS

6 dB Bandwidth



Bandwidth

Peak output power (Sweep) (802.11n; 2412 MHz; 0.000 dBm; 20 MHz)

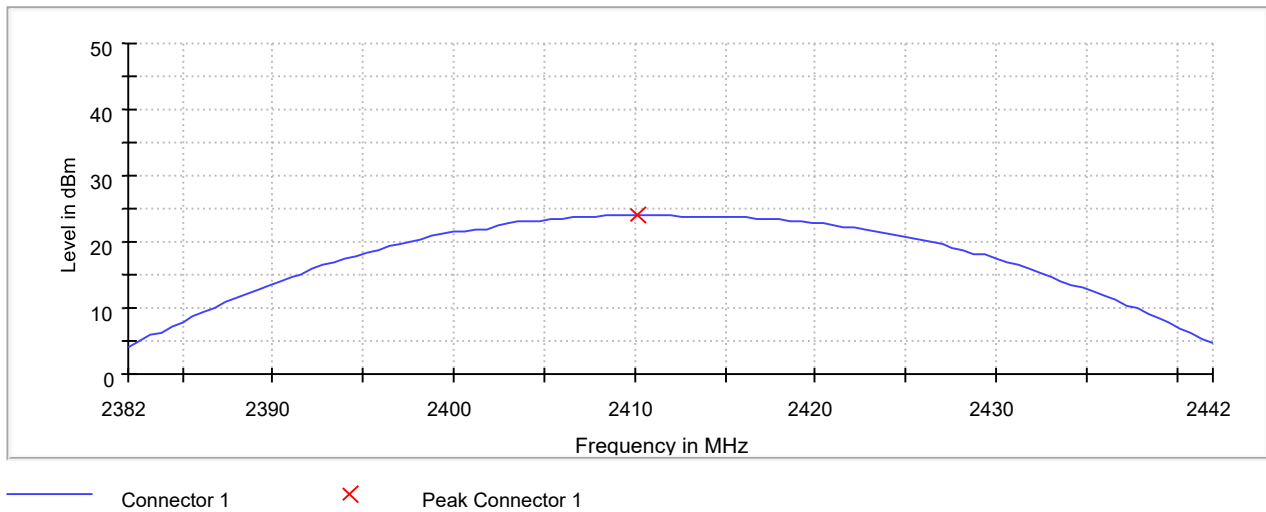
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.9.1.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2412.000000	24.0	30.0	PASS

Peak Power



Peak Power 1

Peak Power Spectral Density (802.11n; 2412 MHz; 0.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v05r02 F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

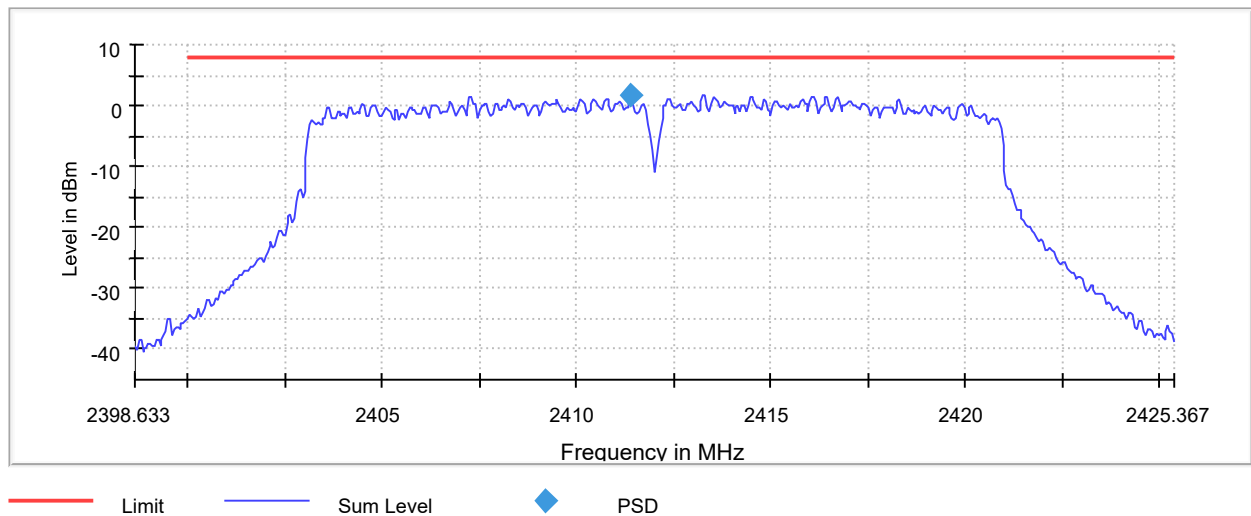
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2411.399249	1.795	8.0	PASS

Ports

Port	State
1	used

Peak Power Spectral Density



PSD Connector 1

Occupied Channel Bandwidth 99% (802.11n; 2412 MHz; 0.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

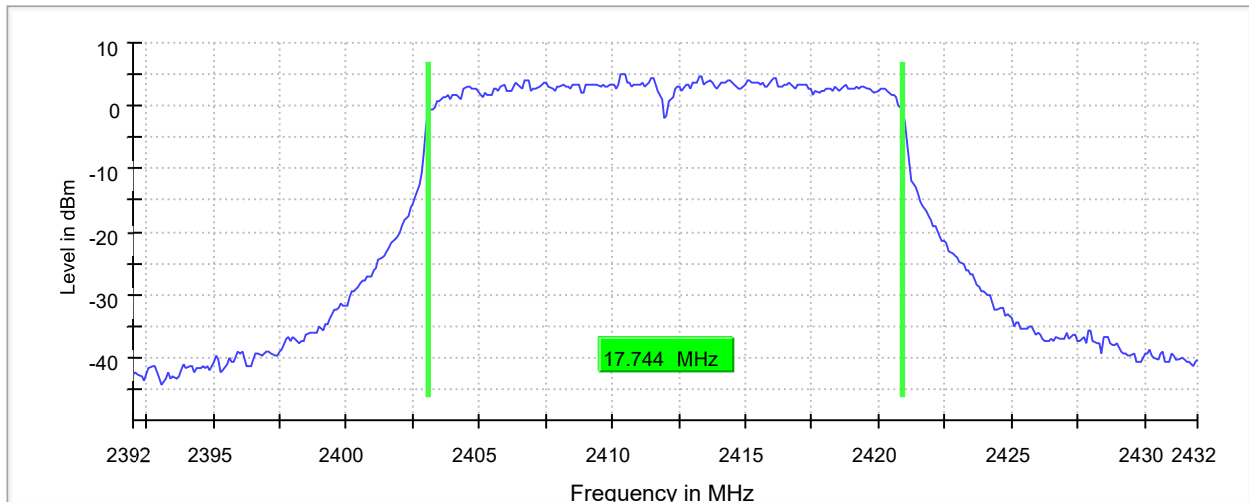
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	17.744360	---	---	2403.127820	2420.872180

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2412.000000	PASS

99 % Bandwidth



Bandwidth

Band Edge low (802.11n; 2412 MHz; 0.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05r02 8.7 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 0.8 dB

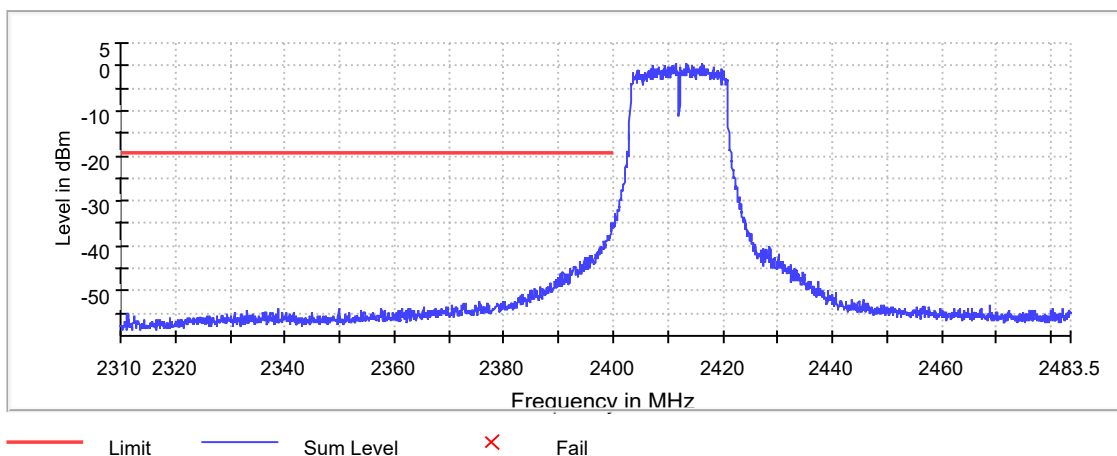
Result

DUT Frequency (MHz)	Result
2412.000000	PASS

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.949972	-34.8	15.3	-19.5	PASS
2399.899944	-34.9	15.5	-19.5	PASS
2399.549750	-35.0	15.6	-19.5	PASS
2399.799889	-35.5	16.0	-19.5	PASS
2399.499722	-35.5	16.1	-19.5	PASS
2399.749861	-35.6	16.1	-19.5	PASS
2399.849917	-36.0	16.5	-19.5	PASS
2399.599778	-36.1	16.7	-19.5	PASS
2399.699833	-36.3	16.8	-19.5	PASS
2399.649805	-36.8	17.4	-19.5	PASS
2399.449694	-37.2	17.8	-19.5	PASS
2399.249583	-37.6	18.2	-19.5	PASS
2399.049472	-37.7	18.3	-19.5	PASS
2399.299611	-37.9	18.5	-19.5	PASS
2399.399666	-37.9	18.5	-19.5	PASS

Band Edge



Minimum Emission Bandwidth 6 dB (802.11n; 2437 MHz; 0.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

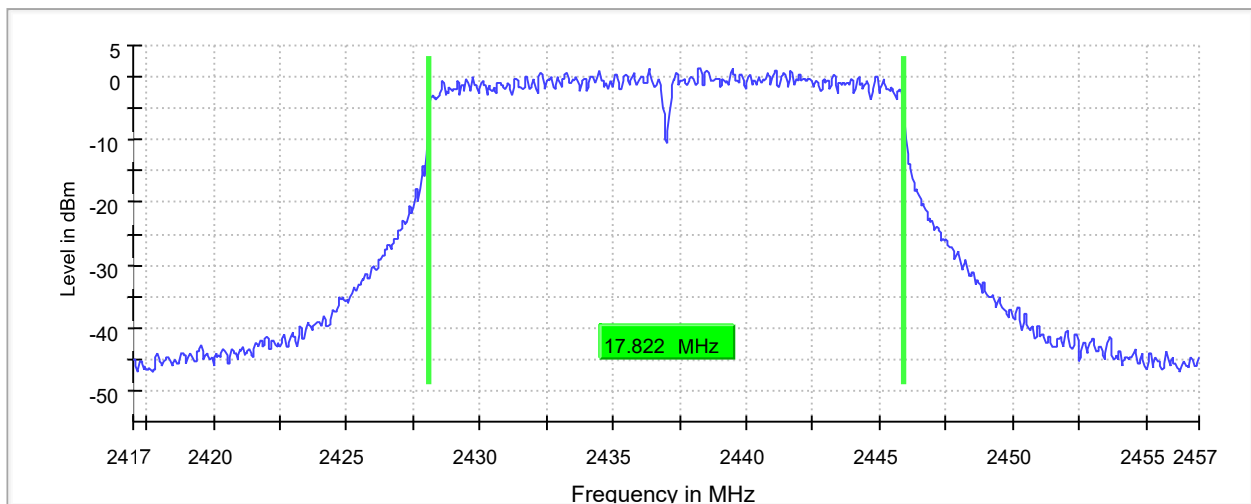
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	17.822278	0.500000	---	2428.113892	2445.936170

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	1.5	PASS

6 dB Bandwidth



Bandwidth

Peak output power (Sweep) (802.11n; 2437 MHz; 0.000 dBm; 20 MHz)

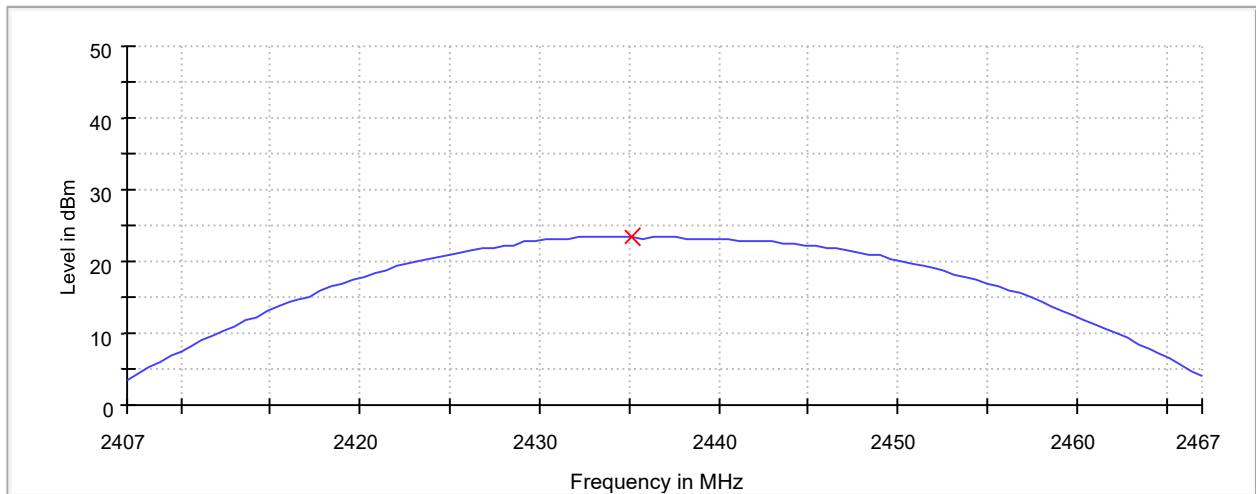
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.9.1.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2437.000000	23.5	30.0	PASS

Peak Power



— Connector 1 × Peak Connector 1

Peak Power 1

Peak Power Spectral Density (802.11n; 2437 MHz; 0.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v05r02 F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

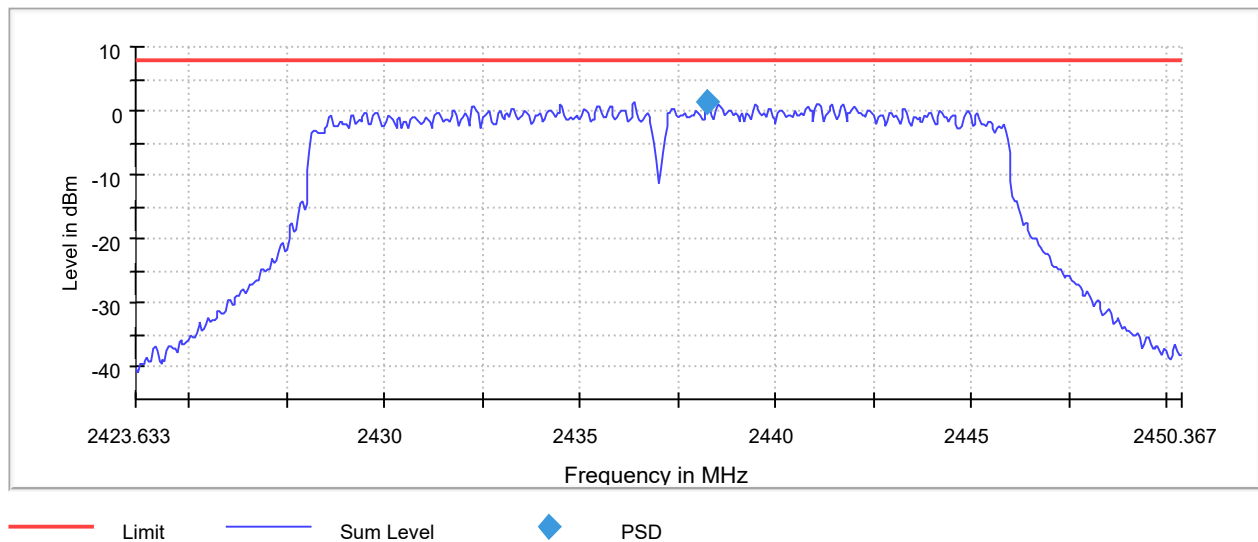
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2438.251564	1.310	8.0	PASS

Ports

Port	State
1	used

Peak Power Spectral Density



PSD Connector 1

Occupied Channel Bandwidth 99% (802.11n; 2437 MHz; 0.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

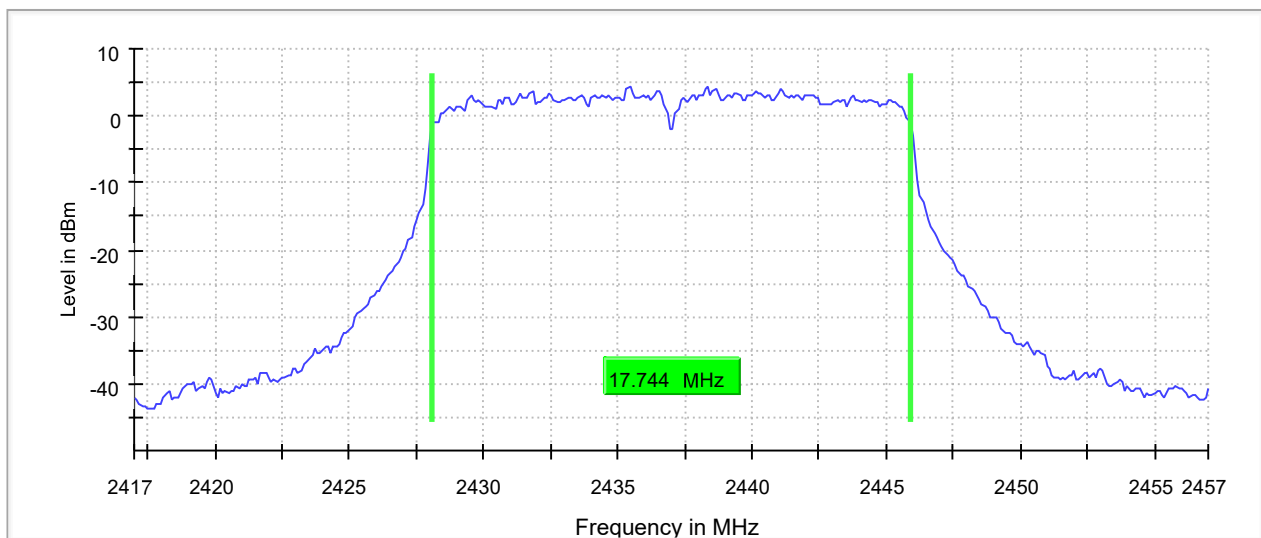
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	17.744360	---	---	2428.127820	2445.872180

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2437.000000	PASS

99 % Bandwidth



Bandwidth

Minimum Emission Bandwidth 6 dB (802.11n; 2462 MHz; 0.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

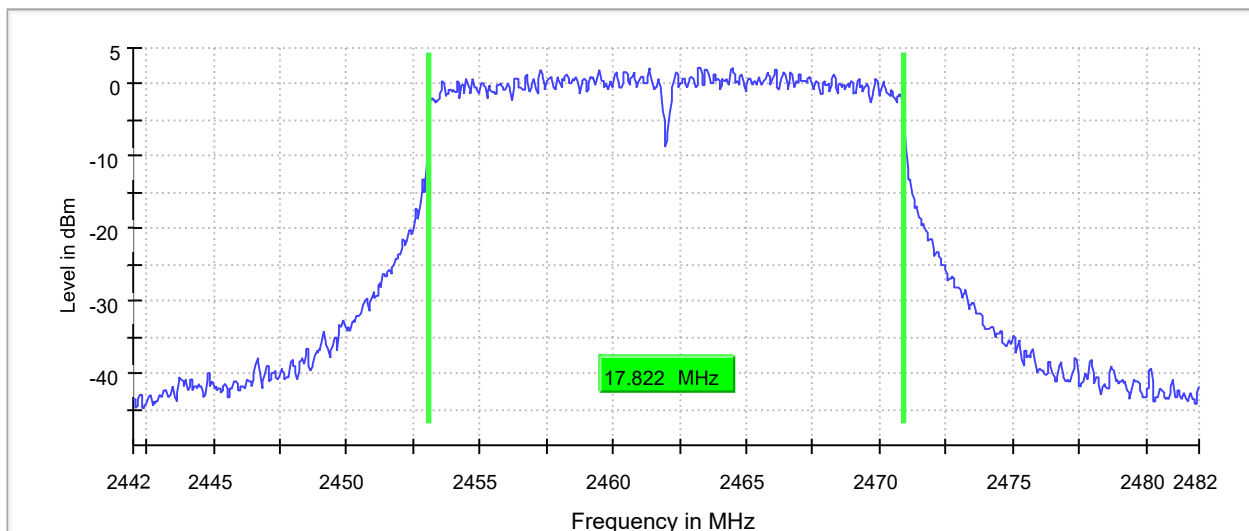
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	17.822278	0.500000	---	2453.113892	2470.936170

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	2.4	PASS

6 dB Bandwidth



Bandwidth

Peak output power (Sweep) (802.11n; 2462 MHz; 0.000 dBm; 20 MHz)

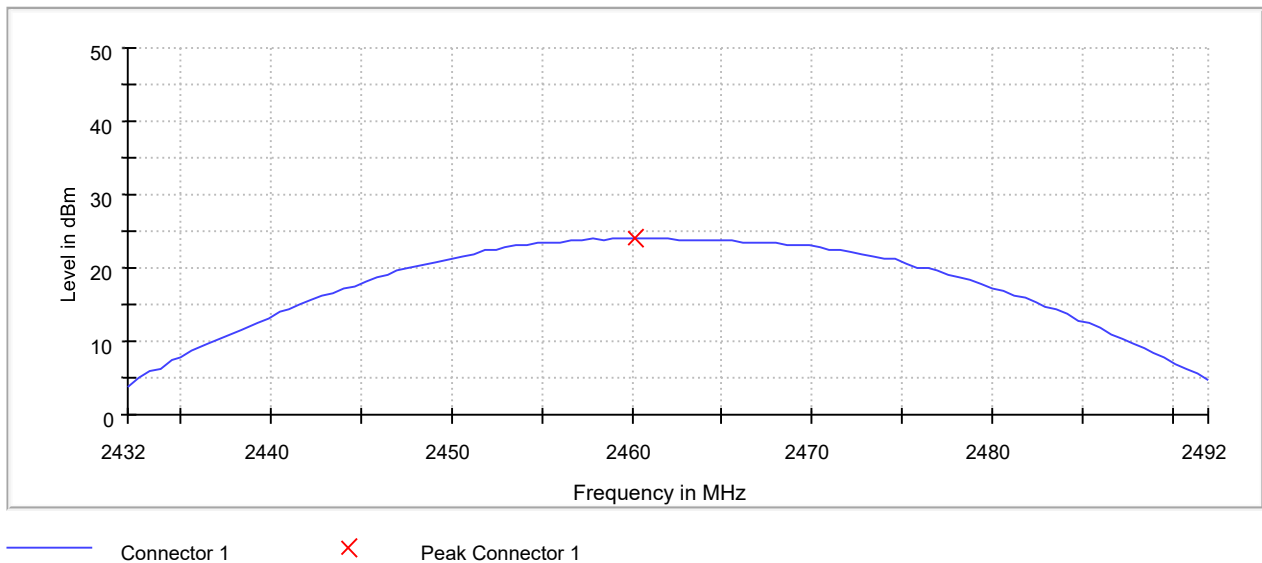
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.9.1.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2462.000000	24.1	30.0	PASS

Peak Power



Peak Power 1

Peak Power Spectral Density (802.11n; 2462 MHz; 0.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v05r02 F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

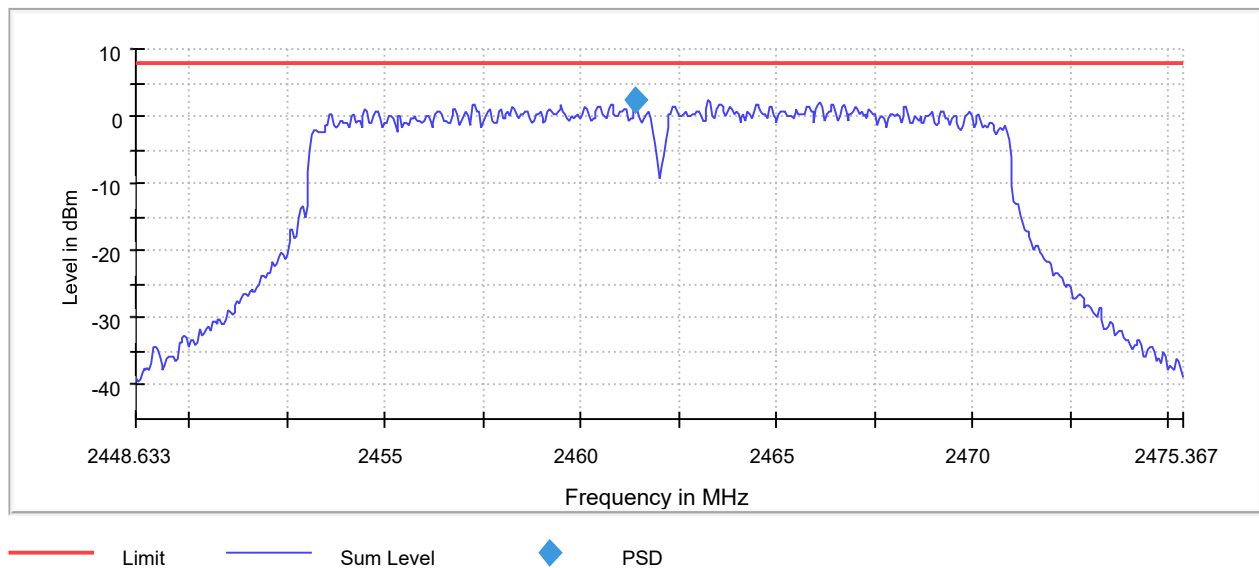
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2461.399249	2.289	8.0	PASS

Ports

Port	State
1	used

Peak Power Spectral Density



PSD Connector 1

Occupied Channel Bandwidth 99% (802.11n; 2462 MHz; 0.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

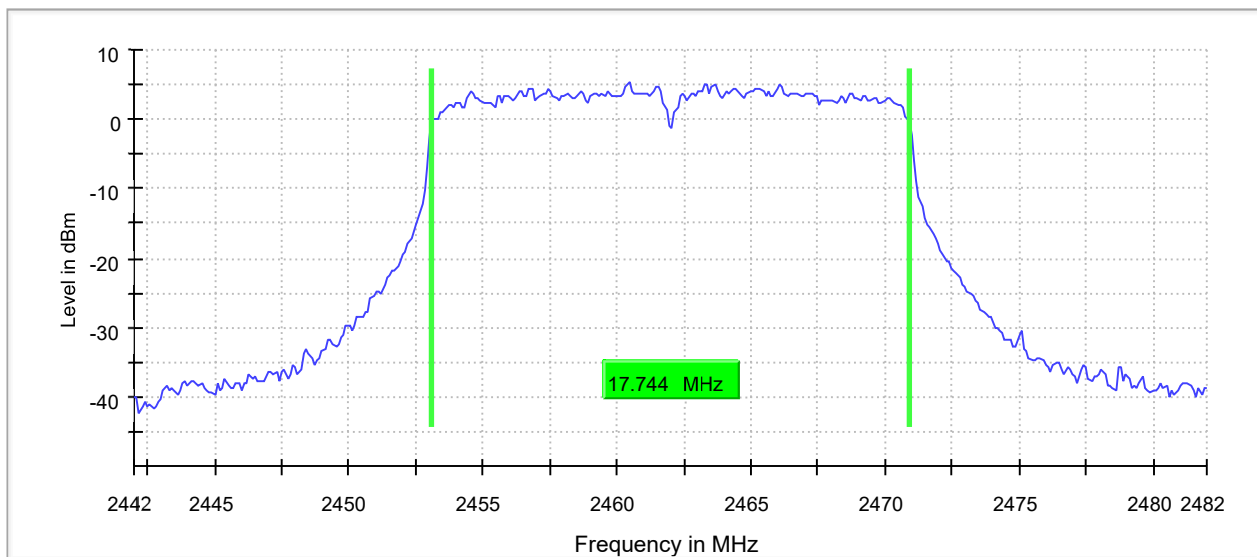
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	17.744360	---	---	2453.127820	2470.872180

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2462.000000	PASS

99 % Bandwidth



Bandwidth

21. Radiated Emissions Tests

EUT Information	
Manufacturer	The Chamberlain Group LLC
Product	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Mode	802.11b 11Mbps, 802.11g 54Mbps, and 802.11n MCS7

Test Setup Details	
Setup Format	Tabletop
Type of Test Site	Semi-Anechoic Chamber
Test Site Used	R29F
Type of Antennas Used	Below 1GHz: Bilog (or equivalent) 1 – 18GHz: Double-Ridged Waveguide (or equivalent) Above 18GHz: Horn (or equivalent)
Notes	N/A

Measurement Uncertainty	
Measurement Type	Expanded Measurement Uncertainty
Radiated disturbance (electric field strength on an open area test site or alternative test site) (30 MHz – 1000 MHz)	4.3
Radiated disturbance (electric field strength on an open area test site or alternative test site) (1 GHz – 6 GHz)	3.1
Radiated disturbance (electric field strength on an open area test site or alternative test site) (6 GHz – 18 GHz)	3.2
Radiated disturbance (electric field strength on an open area test site or alternative test site) (18 GHz – 26.5 GHz)	3.3
Radiated disturbance (electric field strength on an open area test site or alternative test site) (26.5 GHz – 40 GHz)	3.4

DTS Requirements

Peak EIRP:

Per FCC 15.247, Section (b)(3) and ISSED RSS-247, Section 5.4(d), for systems using digital modulation, the maximum peak conducted output power shall not exceed 1W.

Per FCC 15.247, Section (b)(4), and ISSED RSS-247, Section 5.4(d), the conducted output power limit is based on the use of antennas with directional gains that do not exceed 6dBi. If transmitting antennas of directional gain greater than 6dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values, by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Radiated Emissions in Non-Restricted Bands (Use this section if Peak Power Measurements Were Taken):

Per FCC 15.247, Section (d), and ISSED RSS-247, Section 5.5, in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated emissions measurement. Attenuation below the general limits specified in §15.209(a) is not required.

Radiated Emissions in Restricted Bands:

Per 15.247, Section (d), radiated emissions which fall in the restricted bands, as defined in FCC 15.205, Section (a), must comply with the radiated emission limits specified in FCC 15.209, Section (a).

Per ISSED RSS-247, Section 3.3, radiated emissions which fall in the restricted bands, as defined in ISSED RSS-Gen, Section 8.10, must comply with the radiated emission limits specified in RSS-Gen, Section 8.9.

High Band Edge:

Per 15.247, Section (d), radiated emissions which fall in the restricted band beginning at 2483.5MHz, as defined in FCC 15.205, Section (a), must comply with the radiated emission limits specified in FCC 15.209, Section (a).

Per ISSED RSS-247, Section 3.3, radiated emissions which fall in the restricted band beginning at 2483.5MHz, as defined in ISSED RSS-Gen, Section 8.10, must comply with the radiated emission limits specified in RSS-Gen, Section 8.9.

DTS Procedures

Peak EIRP:

C63.10 Annex G and Section 11.9.1.1:

The EUT was placed on a 1.5 meter high non-conductive stand and set to transmit. A double ridged waveguide antenna was placed at a test distance of 3 meters from the EUT.

a) The following settings were employed on the EMI Test Receiver:

- Center Frequency =	Transmit frequency of EUT
- Span =	≥ 3 x RBW
- RBW =	≥ DTS Bandwidth
- VBW =	≥ 3 x RBW
- Number of points in sweep =	≥ (2 x span /RBW)
- Sweep time =	Auto
- Detector =	Peak

- Trace =

Max hold

- b) Allow trace to stabilize and use peak marker function to determine the peak amplitude level.
- c) The equivalent power was determined from the field intensity levels measured at 3 meters using the substitution method. To determine the emission power, a double ridged waveguide antenna was then set in place of the EUT and connected to a calibrated signal generator. The output of the signal generator was adjusted to match the received level at the spectrum analyzer. The signal level was recorded. The reading was then corrected to compensate for cable loss and antenna gain.

Radiated Emissions in Non-Restricted Bands:

C63.10-2020 Section 11.11

Radiated measurements were performed in a 32ft. x 20ft. x 14ft. high shielded enclosure. The shielded enclosure prevents emissions from other sources, such as radio and TV stations, from interfering with the measurements. All power lines and signal lines entering the enclosure pass through filters on the enclosure wall. The powerline filters prevent extraneous signals from entering the enclosure on these leads.

Preliminary radiated emissions tests were performed to determine the emission characteristics of the EUT. For the preliminary test, a broadband measuring antenna was positioned at a 3 meter distance from the EUT. The entire frequency range from 30MHz to 25GHz was investigated using a peak detector function.

The final radiated emission tests were then manually performed over the frequency range of 30MHz to 25GHz.

- 1) The field strength of the fundamental was measured using a double ridged waveguide antenna. The waveguide antenna was positioned at a 3 meter distance from the EUT. The EUT was placed on a 1.5 meter high non-conductive stand and set to transmit. A peak detector with a resolution bandwidth of 100kHz was used on the spectrum analyzer.
- 2) The field strengths of all of the harmonics not in the restricted band were then measured using a double-ridged waveguide antenna. The waveguide antenna was positioned at a 3 meter distance from the EUT. The EUT was placed on a 1.5 meter high non-conductive stand and set to transmit. A peak detector with a resolution bandwidth of 100kHz was used on the spectrum analyzer.
- 3) To ensure that maximum or worst case emission levels at the fundamental and harmonics were measured, the following steps were taken when measuring the fundamental emissions and the spurious emissions:
 - a) The EUT was rotated so that all of its sides were exposed to the receiving antenna.
 - b) Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.
 - c) The measuring antenna was raised and lowered for each antenna polarization to maximize the readings.
 - d) In instances where it was necessary to use a shortened cable between the measuring antenna and the spectrum analyzer, the measuring antenna was not raised or lowered to ensure maximized readings. Instead, the EUT was rotated through all axis to ensure the maximum readings were recorded for the EUT.
- 4) All harmonics not in the restricted bands must be at least 20dB below levels measured at the fundamental. However, attenuation below the general limits specified in §15.209(a) is not required.

Radiated Emissions in Restricted Bands:

C63.10-2020 Section 11.12

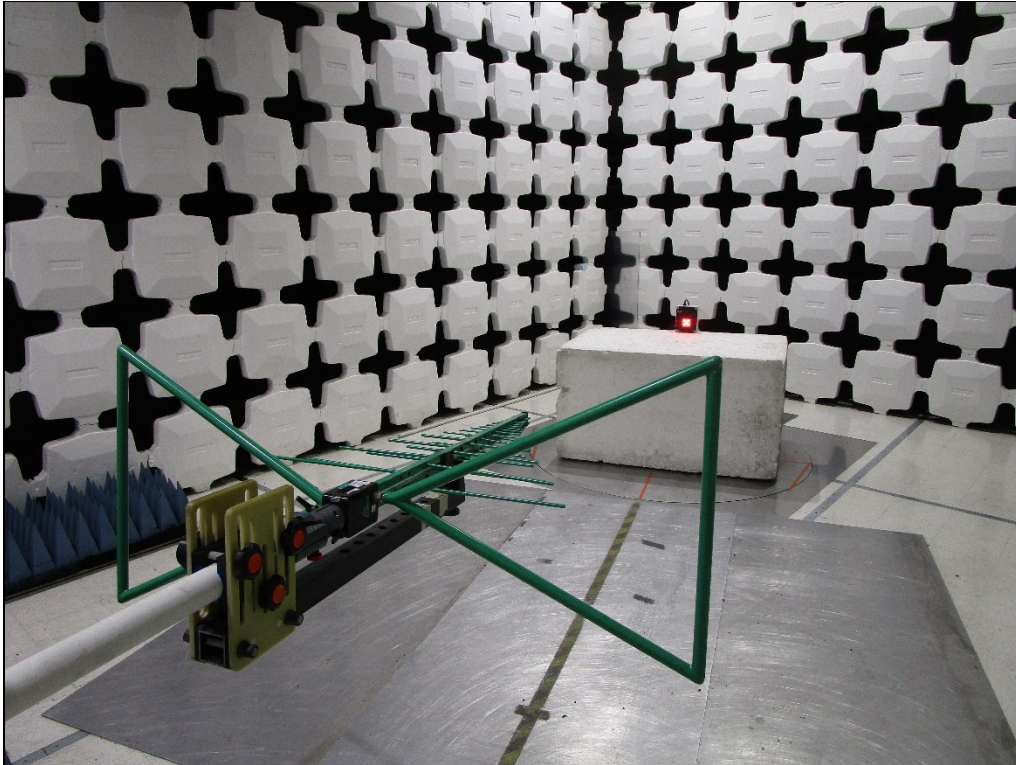
- 1) The field strengths of all emissions below 1 GHz were measured using a bi-log antenna. The bi-log antenna was positioned at a 3 meter distance from the EUT. The EUT was placed on an 80 cm high non-conductive stand and set to transmit. A peak detector with a resolution bandwidth of 100 kHz was used on the spectrum analyzer.
- 2) The field strengths of all emissions above 1 GHz were measured using a double-ridged waveguide antenna. The waveguide antenna was positioned at a 3 meter distance from the EUT. The EUT was placed on a 1.5 meter high non-conductive stand and set to transmit. A peak detector with a resolution bandwidth of 1 MHz was used on the spectrum analyzer.
- 3) To ensure that maximum or worst case emission levels were measured, the following steps were taken when taking all measurements:
 - a) The EUT was rotated so that all of its sides were exposed to the receiving antenna.
 - b) Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.
 - c) The measuring antenna was raised and lowered for each antenna polarization to maximize the readings.
 - d) In instances where it was necessary to use a shortened cable between the measuring antenna and the spectrum analyzer, the measuring antenna was not raised or lowered to ensure maximized readings. Instead, the EUT was rotated through all axis to ensure the maximum readings were recorded for the EUT.
- 4) For all radiated emissions measurements below 1GHz, if the peak reading is below the limits listed in 15.209(a), no further measurements are required. If, however, the peak readings exceed the limits listed in 15.209(a), then the emissions are remeasured using a quasi-peak detector.
- 5) For all radiated emissions measurements above 1GHz, the peak readings must comply with the 15.35(b) limits. 15.35(b) states that when average radiated emissions measurements are specified, there also is a limit on the peak level of the radiated emissions. The limit on the peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. Therefore, all peak readings above 1GHz must be no greater than 20dB above the limits specified in 15.209(a).

High Band Edge:

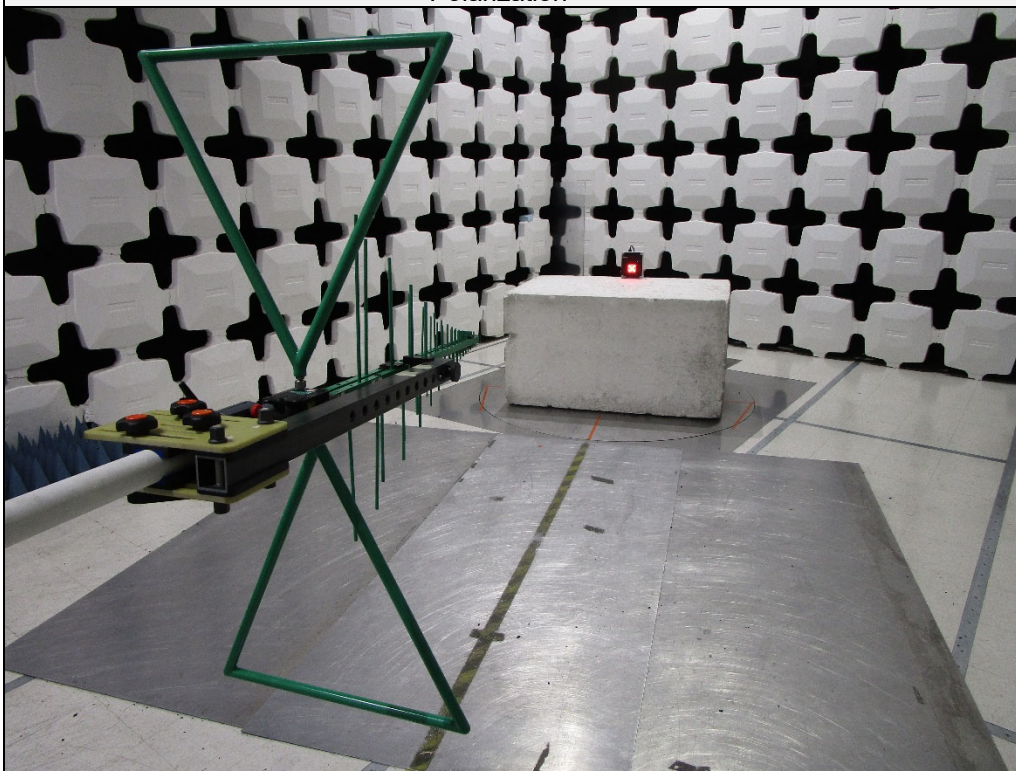
C63.10-2020 section 6.10.5:

- 1) The EUT was set to transmit continuously at the channel closest to the high band-edge.
- 2) The waveguide antenna was positioned at a 3 meter distance from the EUT. The EUT was placed on a 1.5 meter high non-conductive stand and set to transmit. A peak detector with a resolution bandwidth of 1 MHz was used on the spectrum analyzer.
- 3) To ensure that maximum or worst case emission levels were measured, the following steps were taken when taking all measurements:
 - a) The EUT was rotated so that all of its sides were exposed to the receiving antenna.
 - b) Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.
 - c) The measuring antenna was raised and lowered for each antenna polarization to maximize the readings.

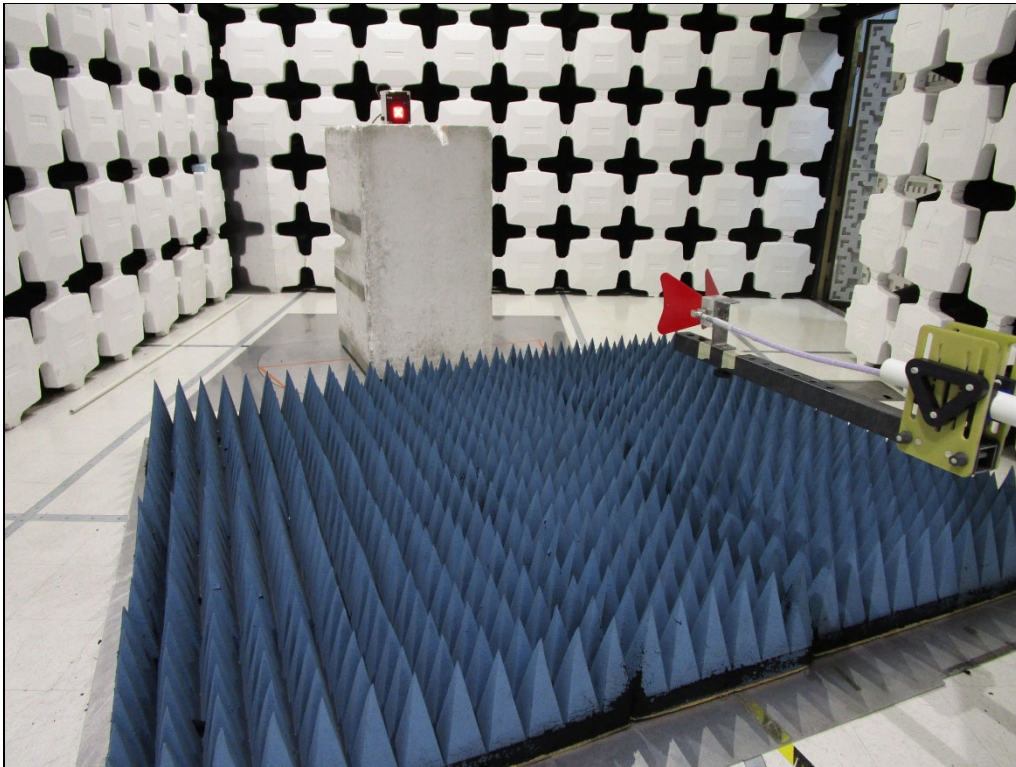
- 4) The peak readings must comply with the 15.35(b) limits. 15.35(b) states that when average radiated emissions measurements are specified, there also is a limit on the peak level of the radiated emissions. The limit on the peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test. Therefore, all peak readings above 1 GHz must be no greater than 20 dB above the limits specified in 15.209(a).



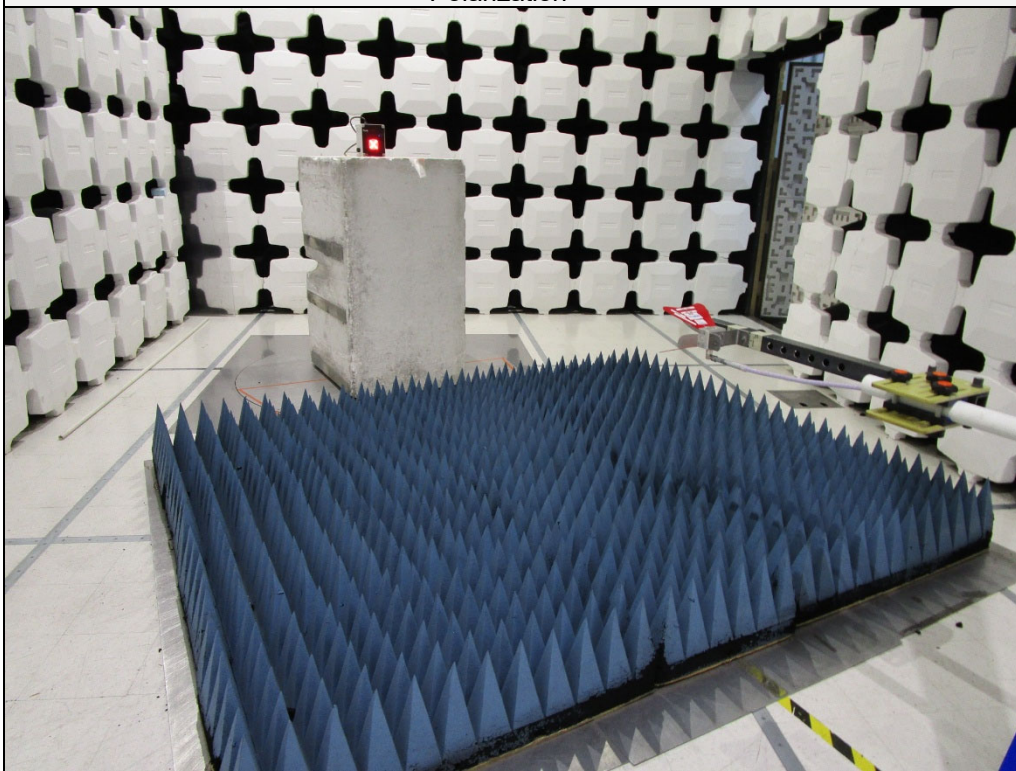
Test Setup for Radiated Spurious Emissions: 30MHz to 1GHz, Horizontal Polarization



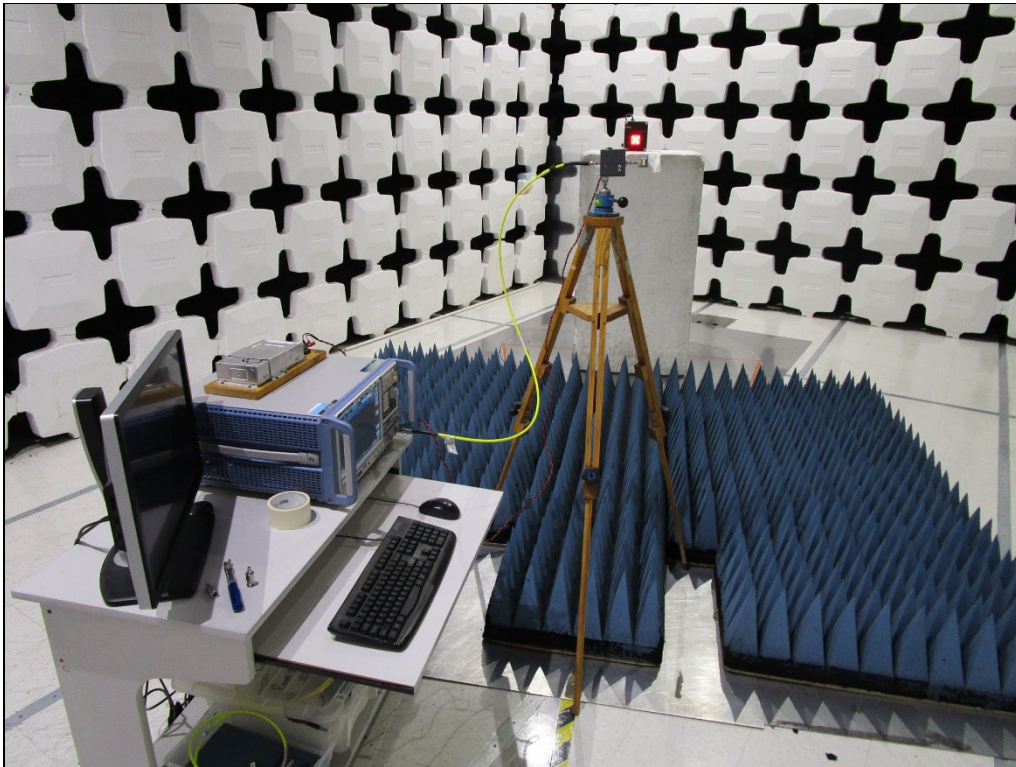
Test Setup for Radiated Spurious Emissions: 30MHz to 1GHz, Vertical Polarization



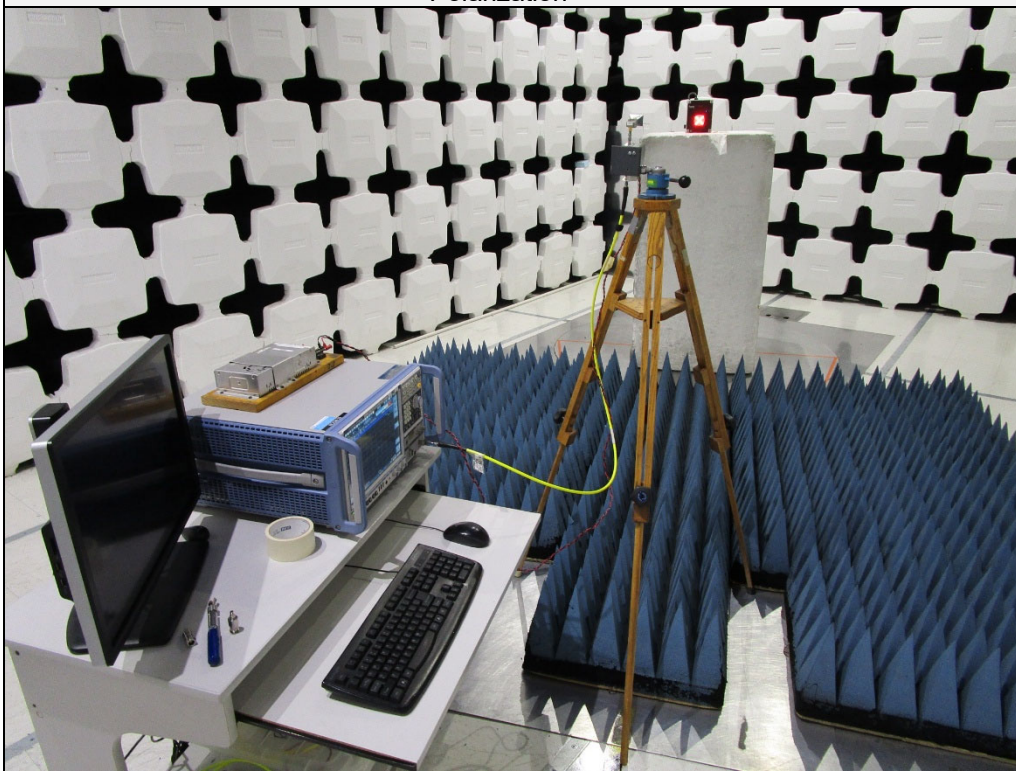
Test Setup for Radiated Spurious Emissions: 1GHz to 18GHz, Horizontal Polarization



Test Setup for Radiated Spurious Emissions: 1GHz to 18GHz, Vertical Polarization



Test Setup for Radiated Spurious Emissions: 18GHz to 25GHz, Horizontal Polarization



Test Setup for Radiated Spurious Emissions: 18GHz to 25GHz, Vertical Polarization

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Mode	802.11b 11Mbps
Result	Max EIRP = 0.372W (25.7dBm)
Notes	None

Freq (MHz)	Ant Pol	Wide BW Meter Reading (dBμV)	Matched Sig Gen Reading (dBm)	Equivalent Antenna Gain (dB)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2412.00	H	80.3	19.1	5.8	3.4	21.5	36.0	-14.5
	V	83.1	21.3	5.8	3.4	23.7	36.0	-12.3
2437.00	H	81.7	20.6	5.7	3.5	22.9	36.0	-13.1
	V	84.1	23.4	5.7	3.5	25.7	36.0	-10.3
2462.00	H	81.3	21.7	5.8	3.5	24.0	36.0	-12.0
	V	83.8	23.3	5.8	3.5	25.6	36.0	-10.4

Peak Total (dBuV/m) = Matched Sig. Gen. Reading (dBuV) + Equivalent Antenna Gain (dB) – Cable Loss (dB)

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Mode	802.11g 54Mbps
Result	Max EIRP = 2.951W (34.7dBm)
Notes	None

Freq (MHz)	Ant Pol	Wide BW Meter Reading (dBμV)	Matched Sig Gen Reading (dBm)	Equivalent Antenna Gain (dB)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2412.00	H	86.3	25.4	5.8	3.4	27.8	36.0	-8.2
	V	89.1	29.7	5.8	3.4	32.1	36.0	-3.9
2437.00	H	85.8	24.9	5.7	3.5	27.2	36.0	-8.8
	V	89.6	31.4	5.7	3.5	33.7	36.0	-2.3
2462.00	H	86.2	28.8	5.8	3.5	31.1	36.0	-4.9
	V	89.8	32.4	5.8	3.5	34.7	36.0	-1.3

Peak Total (dBuV/m) = Matched Sig. Gen. Reading (dBuV) + Equivalent Antenna Gain (dB) – Cable Loss (dB)

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Mode	802.11n MCS7
Result	Max EIRP = 1.698W (32.3dBm)
Notes	None

Freq (MHz)	Ant Pol	Wide BW Meter Reading (dBμV)	Matched Sig Gen Reading (dBm)	Equivalent Antenna Gain (dB)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2412.00	H	86.1	25.1	5.8	3.4	27.5	36.0	-8.5
	V	87.8	27.1	5.8	3.4	29.5	36.0	-6.5
2437.00	H	85.7	24.8	5.7	3.5	27.1	36.0	-8.9
	V	87.8	29.7	5.7	3.5	32.0	36.0	-4.0
2462.00	H	85.4	27.2	5.8	3.5	29.5	36.0	-6.5
	V	87.7	30.0	5.8	3.5	32.3	36.0	-3.7

Peak Total (dBuV/m) = Matched Sig. Gen. Reading (dBuV) + Equivalent Antenna Gain (dB) – Cable Loss (dB)

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Restricted Bands
Mode	802.11b 11Mbps
Frequency Tested	2412MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
4824.00	H	49.1	*	3.7	34.5	-40.4	46.8	219.8	5000.0	-27.1
	V	50.0	*	3.7	34.5	-40.4	47.7	243.5	5000.0	-26.3
12060.00	H	48.4	*	6.1	39.2	-40.1	53.5	472.6	5000.0	-20.5
	V	48.5	*	6.1	39.2	-40.1	53.6	479.7	5000.0	-20.4
14472.00	H	49.0	*	6.6	39.4	-39.8	55.2	574.4	5000.0	-18.8
	V	48.5	*	6.6	39.4	-39.8	54.8	546.6	5000.0	-19.2
19296.00	H	37.8	*	2.5	40.4	-31.6	49.1	286.3	5000.0	-24.8
	V	38.6	*	2.5	40.4	-31.6	49.9	311.1	5000.0	-24.1

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Average Measurements in the Restricted Bands
Mode	802.11b 11Mbps
Frequency Tested	2412MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBμV/m)	Average Total at 3m (μV/m)	Average Limit at 3m (μV/m)	Margin (dB)
4824.00	H	38.46	*	3.7	34.5	-40.4	0.0	36.2	64.3	500.0	-17.8
	V	38.80	*	3.7	34.5	-40.4	0.0	36.5	66.9	500.0	-17.5
12060.00	H	37.68	*	6.1	39.2	-40.1	0.0	42.8	138.0	500.0	-11.2
	V	37.87	*	6.1	39.2	-40.1	0.0	43.0	141.1	500.0	-11.0
14472.00	H	37.47	*	6.6	39.4	-39.8	0.0	43.7	152.8	500.0	-10.3
	V	37.62	*	6.6	39.4	-39.8	0.0	43.8	155.5	500.0	-10.1
19296.00	H	26.95	*	2.5	40.4	-31.6	0.0	38.3	81.8	500.0	-15.7
	V	27.06	*	2.5	40.4	-31.6	0.0	38.4	82.9	500.0	-15.6

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Non-Restricted Bands
Mode	802.11b 11Mbps
Frequency Tested	2412MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
2412.00	H	67.65		2.6	32.5	0.0	102.8	137806.6	NA	NA
	V	70.47		2.6	32.5	0.0	105.6	190664.6	NA	NA
7236.00	H	40.27	*	4.7	36.1	-40.9	40.1	101.7	19066.5	-45.5
	V	43.76		4.7	36.1	-40.9	43.6	151.9	19066.5	-42.0
9648.00	H	39.10	*	5.2	37.2	-40.6	40.9	110.8	19066.5	-44.7
	V	39.11	*	5.2	37.2	-40.6	40.9	110.9	19066.5	-44.7
16884.00	H	37.19	*	7.2	42.6	-39.6	47.4	233.3	19066.5	-38.2
	V	37.45	*	7.2	42.6	-39.6	47.6	240.4	19066.5	-38.0
21708.00	H	26.01	*	2.6	40.6	-30.1	39.0	89.2	19066.5	-46.6
	V	26.10	*	2.6	40.6	-30.1	39.1	90.1	19066.5	-46.5
24120.00	H	26.97	*	6.2	40.6	-31.0	42.8	137.5	19066.5	-42.8
	V	26.65	*	6.2	40.6	-31.0	42.4	132.5	19066.5	-43.2

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Restricted Bands
Mode	802.11b 11Mbps
Frequency Tested	2437MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
4874.00	H	49.2	*	3.7	34.4	-40.4	46.9	221.6	5000.0	-27.1
	V	49.1	*	3.7	34.4	-40.4	46.8	218.8	5000.0	-27.2
7311.00	H	50.3		4.7	35.9	-40.9	50.0	315.0	5000.0	-24.0
	V	52.2		4.7	35.9	-40.9	51.9	392.4	5000.0	-22.1
12185.00	H	48.2	*	6.1	39.1	-40.1	53.2	459.2	5000.0	-20.7
	V	48.8	*	6.1	39.1	-40.1	53.8	490.9	5000.0	-20.2
19496.00	H	38.4	*	2.5	40.4	-31.6	49.7	306.3	5000.0	-24.3
	V	39.0	*	2.5	40.4	-31.6	50.4	329.7	5000.0	-23.6

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Average Measurements in the Restricted Bands
Mode	802.11b 11Mbps
Frequency Tested	2437MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBμV/m)	Average Total at 3m (μV/m)	Average Limit at 3m (μV/m)	Margin (dB)
4874.00	H	38.46	*	3.7	34.4	-40.4	0.0	36.2	64.3	500.0	-17.8
	V	38.53	*	3.7	34.4	-40.4	0.0	36.2	64.8	500.0	-17.7
7311.00	H	39.05		4.7	35.9	-40.9	0.0	38.7	86.4	500.0	-15.2
	V	41.45		4.7	35.9	-40.9	0.0	41.1	114.0	500.0	-12.8
12185.00	H	37.60	*	6.1	39.1	-40.1	0.0	42.6	135.7	500.0	-11.3
	V	37.56	*	6.1	39.1	-40.1	0.0	42.6	135.0	500.0	-11.4
19496.00	H	27.29	*	2.5	40.4	-31.6	0.0	38.6	85.3	500.0	-15.4
	V	27.44	*	2.5	40.4	-31.6	0.0	38.8	86.8	500.0	-15.2

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Non-Restricted Bands
Mode	802.11b 11Mbps
Frequency Tested	2437MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
2437.00	H	69.30		2.6	32.5	0.0	104.5	167196.1	NA	NA
	V	71.22		2.6	32.5	0.0	106.4	208557.6	NA	NA
9748.00	H	38.31	*	5.2	37.3	-40.5	40.3	103.7	20855.8	-46.1
	V	38.20	*	5.2	37.3	-40.5	40.2	102.4	20855.8	-46.2
14622.00	H	37.48	*	6.7	39.6	-39.8	43.9	157.1	20855.8	-42.5
	V	37.57	*	6.7	39.6	-39.8	44.0	158.8	20855.8	-42.4
17059.00	H	37.90	*	7.2	42.4	-39.6	48.0	252.0	20855.8	-38.4
	V	38.68	*	7.2	42.4	-39.6	48.8	275.6	20855.8	-37.6
21933.00	H	26.53	*	2.5	40.6	-30.1	39.4	93.8	20855.8	-46.9
	V	25.69	*	2.5	40.6	-30.1	38.6	85.1	20855.8	-47.8
24370.00	H	26.09	*	2.7	40.6	-31.0	38.4	83.5	20855.8	-48.0
	V	26.24	*	2.7	40.6	-31.0	38.6	84.9	20855.8	-47.8

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Restricted Bands
Mode	802.11b 11Mbps
Frequency Tested	2462MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
4924.00	H	49.5	*	3.7	34.5	-40.5	47.3	230.7	5000.0	-26.7
	V	49.0	*	3.7	34.5	-40.5	46.7	216.3	5000.0	-27.3
7386.00	H	50.4		4.7	35.7	-40.9	50.0	314.9	5000.0	-24.0
	V	53.3		4.7	35.7	-40.9	52.9	440.8	5000.0	-21.1
12310.00	H	48.0	*	6.1	39.1	-40.1	53.1	450.9	5000.0	-20.9
	V	47.8	*	6.1	39.1	-40.1	52.9	442.1	5000.0	-21.1
19696.00	H	36.7	*	2.6	40.4	-31.6	48.1	255.1	5000.0	-25.8
	V	37.6	*	2.6	40.4	-31.6	49.0	282.3	5000.0	-25.0
22158.00	H	37.3	*	2.5	40.6	-30.1	50.3	326.4	5000.0	-23.7
	V	36.8	*	2.5	40.6	-30.1	49.8	307.5	5000.0	-24.2
2483.50	H	24.6	*	2.7	32.7	0.0	60.0	994.7	5000.0	-14.0
	V	25.9	*	2.7	32.7	0.0	61.3	1156.7	5000.0	-12.7

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Average Measurements in the Restricted Bands
Mode	802.11b 11Mbps
Frequency Tested	2462MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBμV/m)	Average Total at 3m (μV/m)	Average Limit at 3m (μV/m)	Margin (dB)
4924.00	H	38.09	*	3.7	34.5	-40.5	0.0	35.8	61.8	500.0	-18.2
	V	38.15	*	3.7	34.5	-40.5	0.0	35.9	62.2	500.0	-18.1
7386.00	H	39.33		4.7	35.7	-40.9	0.0	38.9	87.9	500.0	-15.1
	V	41.84		4.7	35.7	-40.9	0.0	41.4	117.4	500.0	-12.6
12310.00	H	37.45	*	6.1	39.1	-40.1	0.0	42.5	133.8	500.0	-11.4
	V	37.47	*	6.1	39.1	-40.1	0.0	42.6	134.1	500.0	-11.4
19696.00	H	26.26	*	2.6	40.4	-31.6	0.0	37.7	77.0	500.0	-16.3
	V	26.86	*	2.6	40.4	-31.6	0.0	38.3	82.5	500.0	-15.7
22158.00	H	26.88	*	2.5	40.6	-30.1	0.0	39.8	97.9	500.0	-14.2
	V	26.43	*	2.5	40.6	-30.1	0.0	39.4	93.0	500.0	-14.6
2483.50	H	14.11	*	2.7	32.7	0.0	0.0	49.5	297.0	500.0	-4.5
	V	15.86	*	2.7	32.7	0.0	0.0	51.2	363.3	500.0	-2.8

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Non-Restricted Bands
Mode	802.11b 11Mbps
Frequency Tested	2462MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
2462.00	H	68.21		2.6	32.6	0.0	103.4	148744.1	NA	NA
	V	70.88		2.6	32.6	0.0	106.1	202273.8	NA	NA
9848.00	H	38.16	*	5.3	37.3	-40.5	40.3	102.9	20227.4	-45.9
	V	38.28	*	5.3	37.3	-40.5	40.4	104.4	20227.4	-45.7
14772.00	H	39.02	*	6.8	39.8	-39.8	45.8	194.5	20227.4	-40.3
	V	38.64	*	6.8	39.8	-39.8	45.4	186.2	20227.4	-40.7
17234.00	H	38.40	*	7.3	42.8	-39.5	49.0	281.7	20227.4	-37.1
	V	38.33	*	7.3	42.8	-39.5	48.9	279.4	20227.4	-37.2
24620.00	H	26.44	*	2.7	40.6	-31.0	38.8	87.0	20227.4	-47.3
	V	26.22	*	2.7	40.6	-31.0	38.6	84.8	20227.4	-47.6

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Restricted Bands
Mode	802.11g 54Mbps
Frequency Tested	2412MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
4824.00	H	49.0	*	3.7	34.5	-40.4	46.7	216.5	5000.0	-27.3
	V	49.3	*	3.7	34.5	-40.4	47.0	223.6	5000.0	-27.0
12060.00	H	48.0	*	6.1	39.2	-40.1	53.2	455.0	5000.0	-20.8
	V	49.3	*	6.1	39.2	-40.1	54.4	524.8	5000.0	-19.6
14472.00	H	47.4	*	6.6	39.4	-39.8	53.6	477.7	5000.0	-20.4
	V	48.0	*	6.6	39.4	-39.8	54.2	513.1	5000.0	-19.8
19296.00	H	38.2	*	2.5	40.4	-31.6	49.5	299.7	5000.0	-24.4
	V	37.6	*	2.5	40.4	-31.6	48.9	277.2	5000.0	-25.1

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Average Measurements in the Restricted Bands
Mode	802.11g 54Mbps
Frequency Tested	2412MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBμV/m)	Average Total at 3m (μV/m)	Average Limit at 3m (μV/m)	Margin (dB)
4824.00	H	38.39	*	3.7	34.5	-40.4	0.0	36.1	63.8	500.0	-17.9
	V	38.54	*	3.7	34.5	-40.4	0.0	36.2	64.9	500.0	-17.7
12060.00	H	38.03	*	6.1	39.2	-40.1	0.0	43.1	143.7	500.0	-10.8
	V	37.82	*	6.1	39.2	-40.1	0.0	42.9	140.3	500.0	-11.0
14472.00	H	37.19	*	6.6	39.4	-39.8	0.0	43.4	148.0	500.0	-10.6
	V	37.34	*	6.6	39.4	-39.8	0.0	43.6	150.6	500.0	-10.4
19296.00	H	26.97	*	2.5	40.4	-31.6	0.0	38.3	82.0	500.0	-15.7
	V	27.10	*	2.5	40.4	-31.6	0.0	38.4	83.2	500.0	-15.6

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Non-Restricted Bands
Mode	802.11g 54Mbps
Frequency Tested	2412MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
2412.00	H	64.56		2.6	32.5	0.0	99.7	96554.0	NA	NA
	V	66.83		2.6	32.5	0.0	102.0	125392.1	NA	NA
7236.00	H	39.76		4.7	36.1	-40.9	39.6	95.9	12539.2	-42.3
	V	42.30		4.7	36.1	-40.9	42.2	128.4	12539.2	-39.8
9648.00	H	38.44	*	5.2	37.2	-40.6	40.2	102.7	12539.2	-41.7
	V	37.99	*	5.2	37.2	-40.6	39.8	97.5	12539.2	-42.2
16884.00	H	37.45	*	7.2	42.6	-39.6	47.6	240.4	12539.2	-34.3
	V	37.44	*	7.2	42.6	-39.6	47.6	240.1	12539.2	-34.4
21708.00	H	25.89	*	2.6	40.6	-30.1	38.9	88.0	12539.2	-43.1
	V	24.97	*	2.6	40.6	-30.1	38.0	79.1	12539.2	-44.0
24120.00	H	27.21	*	6.2	40.6	-31.0	43.0	141.4	12539.2	-39.0
	V	26.90	*	6.2	40.6	-31.0	42.7	136.4	12539.2	-39.3

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Restricted Bands
Mode	802.11g 54Mbps
Frequency Tested	2437MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
4874.00	H	49.2	*	3.7	34.4	-40.4	46.9	221.1	5000.0	-27.1
	V	49.1	*	3.7	34.4	-40.4	46.8	219.5	5000.0	-27.1
7311.00	H	50.2		4.7	35.9	-40.9	49.9	311.3	5000.0	-24.1
	V	53.1		4.7	35.9	-40.9	52.7	433.3	5000.0	-21.2
12185.00	H	48.3	*	6.1	39.1	-40.1	53.3	464.5	5000.0	-20.6
	V	48.8	*	6.1	39.1	-40.1	53.8	492.6	5000.0	-20.1
19496.00	H	38.0	*	2.5	40.4	-31.6	49.3	293.1	5000.0	-24.6
	V	37.9	*	2.5	40.4	-31.6	49.2	288.4	5000.0	-24.8

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Average Measurements in the Restricted Bands
Mode	802.11g 54Mbps
Frequency Tested	2437MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBμV/m)	Average Total at 3m (μV/m)	Average Limit at 3m (μV/m)	Margin (dB)
4874.00	H	38.35	*	3.7	34.4	-40.4	0.0	36.0	63.5	500.0	-17.9
	V	38.34	*	3.7	34.4	-40.4	0.0	36.0	63.4	500.0	-17.9
7311.00	H	38.47		4.7	35.9	-40.9	0.0	38.2	80.9	500.0	-15.8
	V	40.29		4.7	35.9	-40.9	0.0	40.0	99.7	500.0	-14.0
12185.00	H	37.58	*	6.1	39.1	-40.1	0.0	42.6	135.4	500.0	-11.3
	V	37.63	*	6.1	39.1	-40.1	0.0	42.7	136.1	500.0	-11.3
19496.00	H	27.99	*	2.5	40.4	-31.6	0.0	39.3	92.5	500.0	-14.7
	V	27.32	*	2.5	40.4	-31.6	0.0	38.7	85.6	500.0	-15.3

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Non-Restricted Bands
Mode	802.11g 54Mbps
Frequency Tested	2437MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
2437.00	H	64.06		2.6	32.5	0.0	99.2	91458.9	NA	NA
	V	66.57		2.6	32.5	0.0	101.7	122102.9	NA	NA
9748.00	H	40.20		5.2	37.3	-40.5	42.2	128.9	12210.3	-39.5
	V	38.33	*	5.2	37.3	-40.5	40.3	103.9	12210.3	-41.4
14622.00	H	38.22	*	6.7	39.6	-39.8	44.7	171.1	12210.3	-37.1
	V	37.20	*	6.7	39.6	-39.8	43.6	152.1	12210.3	-38.1
17059.00	H	37.05	*	7.2	42.4	-39.6	47.2	228.5	12210.3	-34.6
	V	37.90	*	7.2	42.4	-39.6	48.0	252.0	12210.3	-33.7
21933.00	H	25.36	*	2.5	40.6	-30.1	38.3	82.0	12210.3	-43.5
	V	25.70	*	2.5	40.6	-30.1	38.6	85.2	12210.3	-43.1
24370.00	H	26.58	*	2.7	40.6	-31.0	38.9	88.3	12210.3	-42.8
	V	26.56	*	2.7	40.6	-31.0	38.9	88.1	12210.3	-42.8

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Restricted Bands
Mode	802.11g 54Mbps
Frequency Tested	2462MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
4924.00	H	49.3	*	3.7	34.5	-40.5	47.0	224.7	5000.0	-26.9
	V	49.4	*	3.7	34.5	-40.5	47.2	228.1	5000.0	-26.8
7386.00	H	50.6		4.7	35.7	-40.9	50.2	323.4	5000.0	-23.8
	V	53.8		4.7	35.7	-40.9	53.4	465.8	5000.0	-20.6
12310.00	H	48.6	*	6.1	39.1	-40.1	53.6	480.9	5000.0	-20.3
	V	48.1	*	6.1	39.1	-40.1	53.2	456.1	5000.0	-20.8
19696.00	H	37.7	*	2.6	40.4	-31.6	49.2	287.3	5000.0	-24.8
	V	37.6	*	2.6	40.4	-31.6	49.1	284.0	5000.0	-24.9
22158.00	H	37.2	*	2.5	40.6	-30.1	50.1	321.2	5000.0	-23.8
	V	36.6	*	2.5	40.6	-30.1	49.6	300.8	5000.0	-24.4
2483.50	H	30.3		2.7	32.7	0.0	65.7	1924.0	5000.0	-8.3
	V	33.3		2.7	32.7	0.0	68.6	2692.8	5000.0	-5.4

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Average Measurements in the Restricted Bands
Mode	802.11g 54Mbps
Frequency Tested	2462MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBμV/m)	Average Total at 3m (μV/m)	Average Limit at 3m (μV/m)	Margin (dB)
4924.00	H	37.31	*	3.7	34.5	-40.5	0.0	35.0	56.5	500.0	-18.9
	V	38.23	*	3.7	34.5	-40.5	0.0	36.0	62.8	500.0	-18.0
7386.00	H	38.86		4.7	35.7	-40.9	0.0	38.4	83.3	500.0	-15.6
	V	41.05		4.7	35.7	-40.9	0.0	40.6	107.2	500.0	-13.4
12310.00	H	37.50	*	6.1	39.1	-40.1	0.0	42.6	134.6	500.0	-11.4
	V	37.46	*	6.1	39.1	-40.1	0.0	42.5	134.0	500.0	-11.4
19696.00	H	26.98	*	2.6	40.4	-31.6	0.0	38.4	83.6	500.0	-15.5
	V	26.88	*	2.6	40.4	-31.6	0.0	38.3	82.7	500.0	-15.6
22158.00	H	26.55	*	2.5	40.6	-30.1	0.0	39.5	94.3	500.0	-14.5
	V	26.29	*	2.5	40.6	-30.1	0.0	39.2	91.5	500.0	-14.8
2483.50	H	15.66		2.7	32.7	0.0	0.0	51.0	355.0	500.0	-3.0
	V	18.16		2.7	32.7	0.0	0.0	53.5	473.4	500.0	-0.5

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Non-Restricted Bands
Mode	802.11g 54Mbps
Frequency Tested	2462MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
2462.00	H	64.30		2.6	32.6	0.0	99.5	94828.7	NA	NA
	V	67.04		2.6	32.6	0.0	102.3	129998.9	NA	NA
9848.00	H	37.68	*	5.3	37.3	-40.5	39.8	97.4	12999.9	-42.5
	V	38.51	*	5.3	37.3	-40.5	40.6	107.2	12999.9	-41.7
14772.00	H	38.08	*	6.8	39.8	-39.8	44.8	174.5	12999.9	-37.4
	V	38.78	*	6.8	39.8	-39.8	45.5	189.2	12999.9	-36.7
17234.00	H	37.77	*	7.3	42.8	-39.5	48.4	261.9	12999.9	-33.9
	V	37.81	*	7.3	42.8	-39.5	48.4	263.2	12999.9	-33.9
24620.00	H	25.49	*	2.7	40.6	-31.0	37.8	78.0	12999.9	-44.4
	V	26.06	*	2.7	40.6	-31.0	38.4	83.3	12999.9	-43.9

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Restricted Bands
Mode	802.11n MCS7
Frequency Tested	2412MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
4824.00	H	49.4	*	3.7	34.5	-40.4	47.1	227.0	5000.0	-26.9
	V	49.6	*	3.7	34.5	-40.4	47.3	231.5	5000.0	-26.7
12060.00	H	47.9	*	6.1	39.2	-40.1	53.0	446.7	5000.0	-21.0
	V	47.9	*	6.1	39.2	-40.1	53.1	449.8	5000.0	-20.9
14472.00	H	48.5	*	6.6	39.4	-39.8	54.7	543.5	5000.0	-19.3
	V	47.5	*	6.6	39.4	-39.8	53.7	484.4	5000.0	-20.3
19296.00	H	38.0	*	2.5	40.4	-31.6	49.3	292.9	5000.0	-24.6
	V	38.1	*	2.5	40.4	-31.6	49.4	296.6	5000.0	-24.5

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Average Measurements in the Restricted Bands
Mode	802.11n MCS7
Frequency Tested	2412MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBμV/m)	Average Total at 3m (μV/m)	Average Limit at 3m (μV/m)	Margin (dB)
4824.00	H	38.36	*	3.7	34.5	-40.4	0.0	36.1	63.6	500.0	-17.9
	V	38.47	*	3.7	34.5	-40.4	0.0	36.2	64.4	500.0	-17.8
12060.00	H	37.82	*	6.1	39.2	-40.1	0.0	42.9	140.3	500.0	-11.0
	V	37.89	*	6.1	39.2	-40.1	0.0	43.0	141.4	500.0	-11.0
14472.00	H	37.51	*	6.6	39.4	-39.8	0.0	43.7	153.5	500.0	-10.3
	V	37.45	*	6.6	39.4	-39.8	0.0	43.7	152.5	500.0	-10.3
19296.00	H	26.95	*	2.5	40.4	-31.6	0.0	38.3	81.8	500.0	-15.7
	V	27.04	*	2.5	40.4	-31.6	0.0	38.3	82.6	500.0	-15.6

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Non-Restricted Bands
Mode	802.11n MCS7
Frequency Tested	2412MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
2412.00	H	63.44		2.6	32.5	0.0	98.6	84873.1	NA	NA
	V	65.68		2.6	32.5	0.0	100.8	109842.4	NA	NA
7236.00	H	39.77		4.7	36.1	-40.9	39.6	96.0	10984.2	-41.2
	V	40.90		4.7	36.1	-40.9	40.8	109.3	10984.2	-40.0
9648.00	H	38.75	*	5.2	37.2	-40.6	40.5	106.4	10984.2	-40.3
	V	38.07	*	5.2	37.2	-40.6	39.9	98.4	10984.2	-41.0
16884.00	H	37.22	*	7.2	42.6	-39.6	47.4	234.1	10984.2	-33.4
	V	37.32	*	7.2	42.6	-39.6	47.5	236.8	10984.2	-33.3
21708.00	H	25.32	*	2.6	40.6	-30.1	38.3	82.4	10984.2	-42.5
	V	26.08	*	2.6	40.6	-30.1	39.1	89.9	10984.2	-41.7
24120.00	H	26.10	*	6.2	40.6	-31.0	41.9	124.4	10984.2	-38.9
	V	25.93	*	6.2	40.6	-31.0	41.7	122.0	10984.2	-39.1

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Restricted Bands
Mode	802.11n MCS7
Frequency Tested	2437MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
4874.00	H	49.2	*	3.7	34.4	-40.4	46.9	221.1	5000.0	-27.1
	V	49.0	*	3.7	34.4	-40.4	46.7	215.8	5000.0	-27.3
7311.00	H	49.3		4.7	35.9	-40.9	49.0	282.0	5000.0	-25.0
	V	50.4		4.7	35.9	-40.9	50.1	319.3	5000.0	-23.9
12185.00	H	49.0	*	6.1	39.1	-40.1	54.0	501.7	5000.0	-20.0
	V	48.5	*	6.1	39.1	-40.1	53.6	477.5	5000.0	-20.4
19496.00	H	38.5	*	2.5	40.4	-31.6	49.8	310.1	5000.0	-24.1
	V	37.8	*	2.5	40.4	-31.6	49.1	286.1	5000.0	-24.8

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Average Measurements in the Restricted Bands
Mode	802.11n MCS7
Frequency Tested	2437MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBμV/m)	Average Total at 3m (μV/m)	Average Limit at 3m (μV/m)	Margin (dB)
4874.00	H	38.16	*	3.7	34.4	-40.4	0.0	35.9	62.1	500.0	-18.1
	V	38.24	*	3.7	34.4	-40.4	0.0	35.9	62.7	500.0	-18.0
7311.00	H	38.51		4.7	35.9	-40.9	0.0	38.2	81.2	500.0	-15.8
	V	39.34		4.7	35.9	-40.9	0.0	39.0	89.4	500.0	-15.0
12185.00	H	37.34	*	6.1	39.1	-40.1	0.0	42.4	131.7	500.0	-11.6
	V	37.57	*	6.1	39.1	-40.1	0.0	42.6	135.2	500.0	-11.4
19496.00	H	27.35	*	2.5	40.4	-31.6	0.0	38.7	85.9	500.0	-15.3
	V	27.39	*	2.5	40.4	-31.6	0.0	38.7	86.3	500.0	-15.3

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Non-Restricted Bands
Mode	802.11n MCS7
Frequency Tested	2437MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
2437.00	H	62.92		2.6	32.5	0.0	98.1	80209.5	NA	NA
	V	65.46		2.6	32.5	0.0	100.6	107454.8	NA	NA
9748.00	H	37.41	*	5.2	37.3	-40.5	39.4	93.5	10745.5	-41.2
	V	37.47	*	5.2	37.3	-40.5	39.5	94.1	10745.5	-41.2
14622.00	H	38.08	*	6.7	39.6	-39.8	44.5	168.4	10745.5	-36.1
	V	37.94	*	6.7	39.6	-39.8	44.4	165.7	10745.5	-36.2
17059.00	H	37.13	*	7.2	42.4	-39.6	47.3	230.6	10745.5	-33.4
	V	37.78	*	7.2	42.4	-39.6	47.9	248.5	10745.5	-32.7
21933.00	H	25.80	*	2.5	40.6	-30.1	38.7	86.2	10745.5	-41.9
	V	26.16	*	2.5	40.6	-30.1	39.1	89.9	10745.5	-41.6
24370.00	H	26.49	*	2.7	40.6	-31.0	38.8	87.4	10745.5	-41.8
	V	26.16	*	2.7	40.6	-31.0	38.5	84.2	10745.5	-42.1

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Restricted Bands
Mode	802.11n MCS7
Frequency Tested	2462MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
4924.00	H	49.8	*	3.7	34.5	-40.5	47.6	239.1	5000.0	-26.4
	V	48.8	*	3.7	34.5	-40.5	46.5	212.4	5000.0	-27.4
7386.00	H	49.6	*	4.7	35.7	-40.9	49.2	287.9	5000.0	-24.8
	V	51.7		4.7	35.7	-40.9	51.3	367.0	5000.0	-22.7
12310.00	H	47.9	*	6.1	39.1	-40.1	53.0	446.2	5000.0	-21.0
	V	47.6	*	6.1	39.1	-40.1	52.7	432.1	5000.0	-21.3
19696.00	H	37.7	*	2.6	40.4	-31.6	49.2	287.3	5000.0	-24.8
	V	37.6	*	2.6	40.4	-31.6	49.1	284.0	5000.0	-24.9
22158.00	H	37.2	*	2.5	40.6	-30.1	50.1	321.2	5000.0	-23.8
	V	37.5	*	2.5	40.6	-30.1	50.4	330.6	5000.0	-23.6
2483.50	H	29.5		2.7	32.7	0.0	64.9	1750.7	5000.0	-9.1
	V	33.3		2.7	32.7	0.0	68.6	2695.9	5000.0	-5.4

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Average Measurements in the Restricted Bands
Mode	802.11n MCS7
Frequency Tested	2462MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBμV/m)	Average Total at 3m (μV/m)	Average Limit at 3m (μV/m)	Margin (dB)
4924.00	H	38.34	*	3.7	34.5	-40.5	0.0	36.1	63.6	500.0	-17.9
	V	38.40	*	3.7	34.5	-40.5	0.0	36.1	64.1	500.0	-17.8
7386.00	H	38.45	*	4.7	35.7	-40.9	0.0	38.0	79.5	500.0	-16.0
	V	40.39		4.7	35.7	-40.9	0.0	39.9	99.4	500.0	-14.0
12310.00	H	37.41	*	6.1	39.1	-40.1	0.0	42.5	133.2	500.0	-11.5
	V	37.39	*	6.1	39.1	-40.1	0.0	42.5	132.9	500.0	-11.5
19696.00	H	26.97	*	2.6	40.4	-31.6	0.0	38.4	83.5	500.0	-15.5
	V	26.86	*	2.6	40.4	-31.6	0.0	38.3	82.5	500.0	-15.7
22158.00	H	26.56	*	2.5	40.6	-30.1	0.0	39.5	94.4	500.0	-14.5
	V	26.22	*	2.5	40.6	-30.1	0.0	39.2	90.7	500.0	-14.8
2483.50	H	15.89		2.7	32.7	0.0	0.0	51.2	364.5	500.0	-2.7
	V	18.23		2.7	32.7	0.0	0.0	53.6	477.2	500.0	-0.4

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	Peak Measurements in the Non-Restricted Bands
Mode	802.11n MCS7
Frequency Tested	2462MHz
Notes	None

Freq (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBμV/m)	Peak Total at 3m (μV/m)	Peak Limit at 3m (μV/m)	Margin (dB)
2462.00	H	62.26		2.6	32.6	0.0	97.5	74979.0	NA	NA
	V	64.52		2.6	32.6	0.0	99.8	97261.2	NA	NA
9848.00	H	37.45	*	5.3	37.3	-40.5	39.5	94.9	9726.1	-40.2
	V	37.76	*	5.3	37.3	-40.5	39.9	98.3	9726.1	-39.9
14772.00	H	37.90	*	6.8	39.8	-39.8	44.7	171.0	9726.1	-35.1
	V	38.00	*	6.8	39.8	-39.8	44.8	172.9	9726.1	-35.0
17234.00	H	37.91	*	7.3	42.8	-39.5	48.5	266.2	9726.1	-31.3
	V	37.25	*	7.3	42.8	-39.5	47.8	246.7	9726.1	-31.9
24620.00	H	26.27	*	2.7	40.6	-31.0	38.6	85.3	9726.1	-41.1
	V	26.37	*	2.7	40.6	-31.0	38.7	86.3	9726.1	-41.0

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	High Band-Edge – Peak Readings
Mode	802.11b 11Mbps
Frequency Tested	2462MHz
Notes	None

Freq. (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
2483.5	H	24.6	*	2.7	32.7	0.0	60.0	994.7	5000.0	-14.0
2483.5	V	25.9	*	2.7	32.7	0.0	61.3	1156.7	5000.0	-12.7

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	High Band-Edge – Average Readings
Mode	802.11b 11Mbps
Frequency Tested	2462MHz
Notes	None

Freq. (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Average Total dBμV/m at 3m	Average Total μV/m at 3 m	Average Limit μV/m at 3 m	Margin (dB)
2483.5	H	14.11	*	2.7	32.7	0.0	0.0	49.5	297.0	500.0	-4.5
2483.5	V	15.86	*	2.7	32.7	0.0	0.0	51.2	363.3	500.0	-2.8

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	High Band-Edge – Peak Readings
Mode	802.11g 54Mbps
Frequency Tested	2462MHz
Notes	None

Freq. (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
2483.5	H	30.3		2.7	32.7	0.0	65.7	1924.0	5000.0	-8.3
2483.5	V	33.3		2.7	32.7	0.0	68.6	2692.8	5000.0	-5.4

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	High Band-Edge – Average Readings
Mode	802.11g 54Mbps
Frequency Tested	2462MHz
Notes	None

Freq. (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Average Total dBμV/m at 3m	Average Total μV/m at 3 m	Average Limit μV/m at 3 m	Margin (dB)
2483.5	H	15.7		2.7	32.7	0.0	0.0	51.0	355.0	500.0	-3.0
2483.5	V	18.2		2.7	32.7	0.0	0.0	53.5	473.4	500.0	-0.5

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	High Band-Edge – Peak Readings
Mode	802.11n MCS7
Frequency Tested	2462MHz
Notes	None

Freq. (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Peak Total dBμV/m at 3m	Peak Total μV/m at 3 m	Peak Limit μV/m at 3 m	Margin (dB)
2483.5	H	29.5		2.7	32.7	0.0	64.9	1750.7	5000.0	-9.1
2483.5	V	33.3		2.7	32.7	0.0	68.6	2695.9	5000.0	-5.4

Test Details	
Manufacturer	The Chamberlain Group LLC
EUT	Link 2.0
Model No.	RTL8720CS
Serial No.	L2-ESL-05
Test	High Band-Edge – Average Readings
Mode	802.11n MCS7
Frequency Tested	2462MHz
Notes	None

Freq. (MHz)	Ant Pol	Meter Reading (dBμV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Average Total dBμV/m at 3m	Average Total μV/m at 3 m	Average Limit μV/m at 3 m	Margin (dB)
2483.5	H	15.9		2.7	32.7	0.0	0.0	51.2	364.5	500.0	-2.7
2483.5	V	18.2		2.7	32.7	0.0	0.0	53.6	477.2	500.0	-0.4

22. Scope of Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL

Valid To: June 30, 2027

Certificate Number: 1786.01

In recognition of the successful completion of the A2LA Accreditation Program evaluation process, accreditation is granted to this laboratory at the location listed above, as well as the satellite location listed below, to perform the following automotive electromagnetic compatibility and other electrical tests:

Test Technology:**Test Method(s)¹:**

Transient Immunity
(Max Voltage 1500 V/Max current 1000 A)

ISO 7637-2 (including emissions); ISO 7637-3; ISO 7637-4;
ISO 16750-2, Sections 4.6.3 and 4.6.4;
ISO 21498-1; ISO 21498-2;
CS.00054, Section 5.9; CS.00244 Section 5.2.15 through 5.2.21; CS.00245; CS.00246 Section 5.2.4;
EMC-CS-2009.1 (CI220); FMC1278 (CI220, CI221, CI222);
GMW 3097, Section 3.5; SAE J1113-11; SAE J1113-12;
ECE Regulation 10.06 Annex 10

Electrostatic Discharge (ESD)
(Up to +/-25 kV)

ISO 10605 (2001, 2008); ISO 10605;
CS.00054, Section 5.10; CS.00244 Section 5.5;
EMC-CS-2009.1 (CI 280); FMC1278 (CI280); SAE J1113-13;
GMW 3097 Section 3.6

Conducted Emissions

CISPR 25 (2002, 2008), Sections 6.2 and 6.3;
CISPR 25 (2016), Sections 6.3 and 6.4; CISPR 25;
CS.00054, Sections 5.6.1 and 5.6.2;
CS.00244 Sections 5.4.2 and 5.4.3; GMW 3097, Section 3.3.2;
EMC-CS-2009.1 (CE 420); FMC1278 (CE420, CE421, CE 430, CE440)

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