

ISED CABid: ES1909

Lab. Company Number: 4621A

Test Report No:

71590RRF.005

Test Report

USA FCC Part 15.249, 15.209

CANADA RSS-210, RSS-Gen

(*) Identification of item tested	Proximity electromechanic lock
(*) Trademark	Ojmar
(*) Model and /or type reference	OTS Pulse (Full PCB 233-16)
(*) Derived model not tested	233-01
Other identification of the product	FCC ID: 2ANY7OJM007 IC: Not provided
(*) Features	Technologies: Mifare Classic, Mifare Desfire EV1/EV2 2K, 4K and 8K, Mifare Ultralight, HID iClass and HID Seos. Compatible with Ultralight C and technogym. BLE. Wireless protocol: Proprietary protocol based on 802.15.4 Power supply: 4x1,5V AA Alkaline batteries Functional temperature range: -10° to 42° (without condensation) Autonomy: Up to 8 years (Depending on usage, humidity and temperature) Approximate weight: 375 g HW version: OTS Pulse 1.0.2 SW version: 2.0.0
Applicant	OJMAR S.A Polígono industrial de lerun s/n 20870 / Elgoibar / Gipuzkoa
Test method requested, standard	USA FCC Part 15.249 (10-1-23 Edition): Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, 5725 - 5875 MHz, and 24.0 – 24.25 GHz. USA FCC Part 15.209 (10-1-23 Edition): Radiated emission limits; general requirements. CANADA RSS-210 Issue 10 (December 2019). CANADA RSS-Gen Issue 5 Amendment 2 (February 2021). ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Summary	IN COMPLIANCE
Approved by (name / position & signature)	José Manuel Gómez Galván EMC Consumer & RF Lab. Manager 
Date of issue	2024-07-23
Report template No	FDT08_24 (*) "Data provided by the client"

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Acronyms

Acronym ID	Acronym Description
Detector	Detector used
Equipment	Equipment Type
Freq	Frequency
Freq Rng	Frequency Range
MP	Measurement Point
Mod	Modulation
Operation Band	Operation Band
Pol	Polarization
Unwanted Freq	Unwanted Emissions Frequency
Unwanted Lvl	Unwanted Emissions Level

Competences and guarantees

DEKRA Testing and Certification S.A.U. is a testing laboratory accredited by the National Accreditation Body (ENAC -Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 51/LE 147.

DEKRA Testing and Certification S.A.U. is an FCC-recognized accredited testing laboratory with appropriate scope of accreditation that covers the performed tests in this report.

DEKRA Testing and Certification S.A.U. is an ISED-recognized accredited testing laboratory, CABid: ES1909, Company Number: 4621A, with the appropriate scope of accreditation that covers the performed tests in this report.

In order to assure the traceability to other national and international laboratories, DEKRA Testing and Certification S.A.U. has a calibration and maintenance program for its measurement equipment.

DEKRA Testing and Certification S.A.U. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Testing and Certification S.A.U. at the time of performance of the test.

DEKRA Testing and Certification S.A.U. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Testing and Certification S.A.U.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Testing and Certification S.A.U. and the Accreditation Bodies.

Uncertainty

Uncertainty (factor $k=2$) was calculated according to the DEKRA Testing and Certification S.A.U. internal document PODT000.

The total uncertainty of the measurement system for the radiated emissions of EUT from 30 MHz to 1 GHz is:
Measurement uncertainty $\leq \pm 5,35$ dB with factor ($k = 2$).

The total uncertainty of the measurement system for the radiated emissions of EUT from 1 GHz to 17 GHz is:
Measurement uncertainty $\leq \pm 4,32$ dB with factor ($k = 2$).

The total uncertainty of the measurement system for the radiated emissions of EUT from 17 GHz to 26 GHz is:
Measurement uncertainty $\leq \pm 5,51$ dB with factor ($k = 2$).

The total uncertainty of the measurement system for the conducted testing of EUT is:
Occupied Channel Bandwidth: Measurement uncertainty $\leq \pm 1,17$ %

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
2. The sample consists of a 233. Proximity electromechanic lock that communicates via RFID (13,56MHz) using Mifare Classic, Mifare Desfire and Mifare Ultralight technologies Lock is powered by 4 AA batteries of 1,5V each one. Lock also allows NFC communication at 13,56MHz for maintenance purposes. Working mode is following one: Once knob is pressed, a switch is activated that starts communication between interior antenna and proximity card. Lock reads the UID of the card or the UID of the smartphone that is sent by BLE and send the information to the Gateway. Gateway, with the information that has stored in its memory, answers back accepting or denying the petition operation. Once received, lock moves the motor and closes. After that, lock sends the event of operation to Gateway. Opening is made in the same way. Lock is sleep until the switch is pressed.
3. Letter of Equivalence:

We hereby confirm the equivalence between the following OTS Pulse system boards

Full PCB	Equivalent PCB
233-16	233-01

Ambas placas poseen las siguientes características:

- Same RFID antenna design.
- Same BLE antenna design.
- Same Wireless antenna design.
- Same functional Firmware and bootloader.

Both boards have the same PCB layout. The only difference is that the following component "CHIP HID SEL55100000" is not mounted on the 233-01 board:

This chip is used to read the static serial number of the HID Seos cards, using the same antenna circuit.

The reason for having two boards is purely economic, as the price difference is significant.

Signed

At Elgoibar, 30/08/2023



Xabier Martínez

Product Manager

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples undergoing test have been selected by: The client.

Id	Control Number	Description	Model	Serial N°	Date of Reception	Application
S/01	71590B_53	Door lock	OTS Pulse		2024-06-17	Element Under Test
S/01	71590B_24	Card			2023-11-09	Auxiliary Element
S/02	71590B_52	Door lock (Conducted)	OTS Pulse		2024-06-17	Element Under Test

Notes referenced to samples during the project:

Id	Type
S/01	Sample used for radiated testing
S/02	Sample used for conducted testing

Test sample description

Ports..... :	Port name and description	Cable					
		Specified max length [m]	Attached during test	Shielded	Coupled to patient ⁽³⁾		
			[]	[]	[]		
			[]	[]	[]		
			[]	[]	[]		
			[]	[]	[]		
			[]	[]	[]		
			[]	[]	[]		
Supplementary information to the ports..... :							
Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	[]	AC:	[]	[]	[]	[]	[]
	[]	AC:	[]	[]	[]	[]	[]
	[X]	DC: 4 AA Batteries (6V)					
	[]	DC:					
Rated Power							
Clock frequencies.....							
Other parameters							
Software version							
Hardware version							
Dimensions in cm (W x H x D)							
Mounting position	[]	Table top equipment					
	[]	Wall/Ceiling mounted equipment					
	[]	Floor standing equipment					
	[]	Hand-held equipment					
	[]	Other:					
Modules/parts.....	Module/parts of test item			Type	Manufacturer		

			
			
			
			
Accessories (not part of the test item)	Description	Type	Manufacturer
			
			
			
			
			
			
Documents as provided by the applicant	Description	File name	Issue date
			
			
			
			

(3) Only for Medical Equipment

Identification of the client

OJMAR S.A
Polígono industrial de Ierun s/n 20870 / Elgoibar / Gipuzkoa

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2024-06-27
Date (finish)	2024-07-01

Document history

Report number	Date	Description
71590RRF.005	2024-07-03	First release.

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %

In the semianechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %

Remarks and comments

The tests have been performed by the technical personnel: Alvaro Gutierrez Naranjo.

Used instrumentation:

Control No.	Equipment	Model	Manufacturer	Next Calibration
07758	DIGITAL MULTIMETER	175	FLUKE	2024-11-08
06165	EMI TEST RECEIVER 9kHz-7GHz	ESR7	ROHDE AND SCHWARZ	2025-12-27
10304	EMI TEST RECEIVER 2Hz-44GHz	ESW44	ROHDE AND SCHWARZ	2026-02-19
04611	HORN ANTENNA 1-18GHz	BBHA 9120 D	SCHWARZBECK MESS-ELEKTRONIK	2026-01-16
04578	HYBRID BILOG ANTENNA 30MHz-6GHz	3142E	ETS LINDGREN	2026-06-01
04657	HORN ANTENNA 18-40GHz	BBHA 9170	SCHWARZBECK	2026-06-12
04712	MULTI-DEVICE CONTROLLER	2090	EMCO	N/A
08856	PRE-AMPLIFIER G>30dB 18-40GHz	BLMA 1840-4A	BONN ELEKTRONIK	2025-02-27
06142	PRE-AMPLIFIER G>38dB 30MHz-6GHz	BLNA 0360-01N	BONN ELEKTRONIK	2024-06-28
05705	PRE-AMPLIFIER G>40dB 1-18 GHz	BLMA 0118-1M	BONN ELEKTRONIK	2024-07-26
04825	SEMIANECHOIC ABSORBER LINED CHAMBER	FACT 3 200 STP	ETS LINDGREN	N/A
04716	SIGNAL AND SPECTRUM ANALYZER 2Hz-50GHz	FSW50	ROHDE AND SCHWARZ	2024-08-12
04848	SOFTWARE FOR EMC/RF TESTING	EMC32	ROHDE AND SCHWARZ	N/A
07548	TEMPERATURE AND HUMIDITY PROBE	HWg-STE	HW GROUP	2025-04-09
07547	TEMPERATURE AND HUMIDITY PROBE	HWg-STE	HW GROUP	2025-04-04
09555	TWO-CHANNEL POWER SUPPLY, 32V, 10/5A, 188W	HMP2020	ROHDE AND SCHWARZ	N/A

Testing verdicts

Fail	F
Inconclusive	I
Not applicable	N/A
Not measured	N/M
Pass	P

Summary

FCC PART 15 PARAGRAPH/ RSS-249			
Requirement – Test case		Verdict	Remark
15.249 (a) / RSS-210 B.10 (a)	Field strength of fundamental and harmonics emissions	P	
15.249 (d) (e) / RSS-210 B.10 (b)	Emissions radiated outside of the specific frequency bands	P	
99dBw	Occupied Channel Bandwidth 99%	P	
<u>Supplementary information and remarks:</u>			
None			

Appendix A: Test results

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 FCC 47 CFR PART 15.249 / RSS-21017

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 15.249 (d) (e) / RSS-210 B.10 (b) Emissions radiated outside of the specific frequency bands24

TEST CONDITIONS

(*): Data provided by the client.

POWER SUPPLY (*):

Vnominal:	4 AA Batteries (6V) V
Type of Power Supply:	Battery

ANTENNA (*):

Type of Antenna:	Multiband antenna
Maximum Declared Antenna Gain:	1.5 dBi

TEST FREQUENCIES (*):

Low Channel:	2406 MHz
Middle Channel:	2448 MHz
High Channel:	2478 MHz

During transmitter test the EUT was controlled by a SW tool provided by the client to operate in a continuous transmit mode on the modulation schemes and test channels as required.

CONDUCTED MEASUREMENTS:

The equipment under test was set up in a shielded room and it is connected to the TS8997 using a low loss RF cable. The reading of the spectrum analyser is corrected taking into account the cable loss.



RADIATED MEASUREMENTS:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Bilog antenna for the range between 30 MHz to 1000 MHz and 1 GHz-17 GHz Double ridge horn antenna) is situated at a distance of 3 m and at a distance of 1.5 m for the frequency range 17 GHz-26 GHz (17 GHz-40 GHz horn antenna).

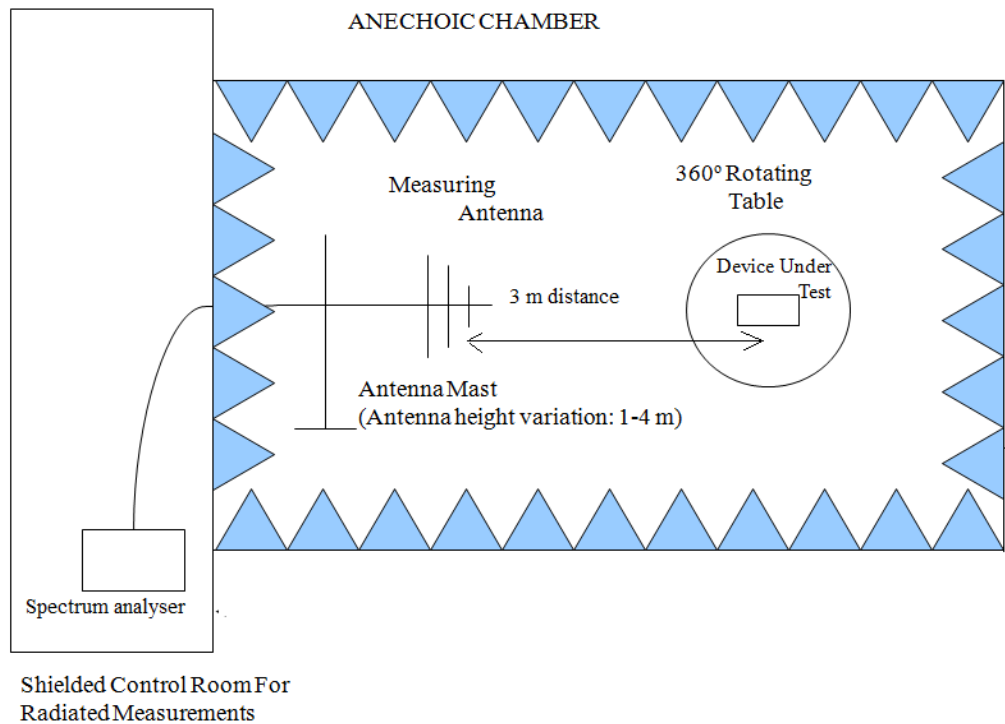
For radiated emissions in the range 17 GHz-26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height (Bilog antenna and Double ridge horn antenna) was varied from 1 to 4 meters to find the maximum radiated emission.

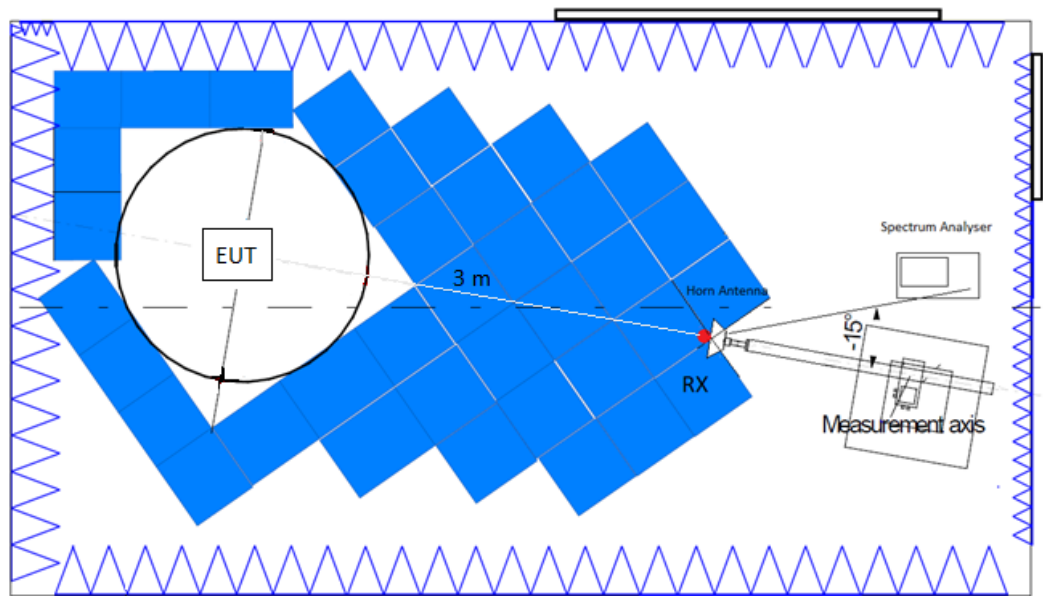
Measurements were made in both horizontal and vertical planes of polarization.

A resolution bandwidth/video bandwidth of 100 kHz / 300 kHz was used for frequencies below 1 GHz and 1 MHz / 3 MHz for frequencies above 1 GHz.

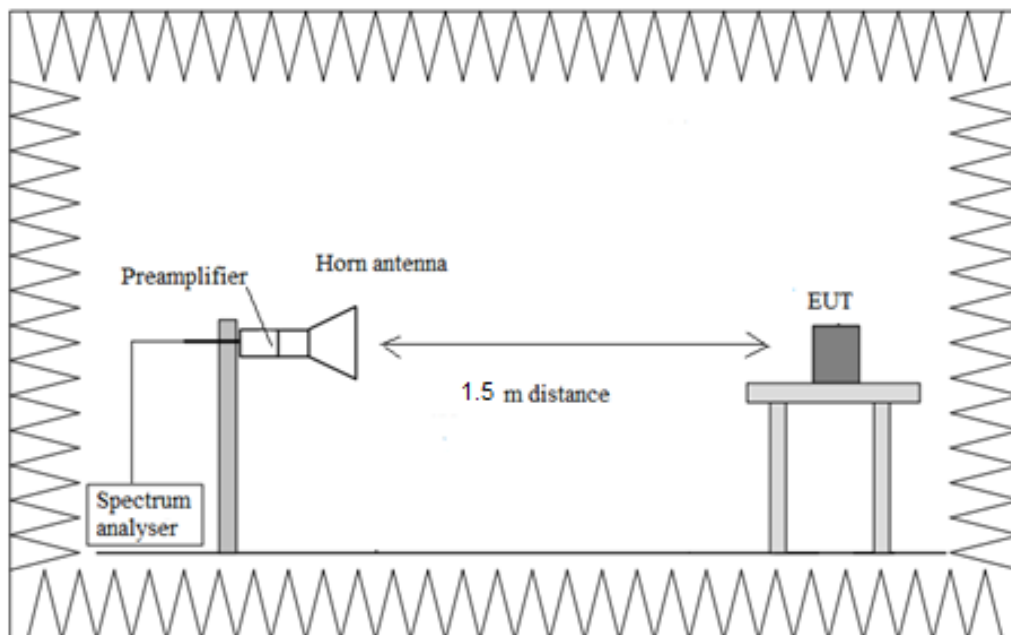
Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1 GHz to 17 GHz:



Radiated measurements setup $f > 17$ GHz:



TEST CASES DETAILS

FCC 47 CFR Part 15.249 / RSS-210

99dBw Occupied Channel Bandwidth 99%

Limit

* RSS-Gen Issue 5, Clause 6.7 Occupied bandwidth (or 99% emission bandwidth) and x dB bandwidth:

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

Results

Freq (MHz)	Occ Ch BW (MHz)
2406.00000	0.9993
2448.00000	1.0173
2478.00000	1.0119

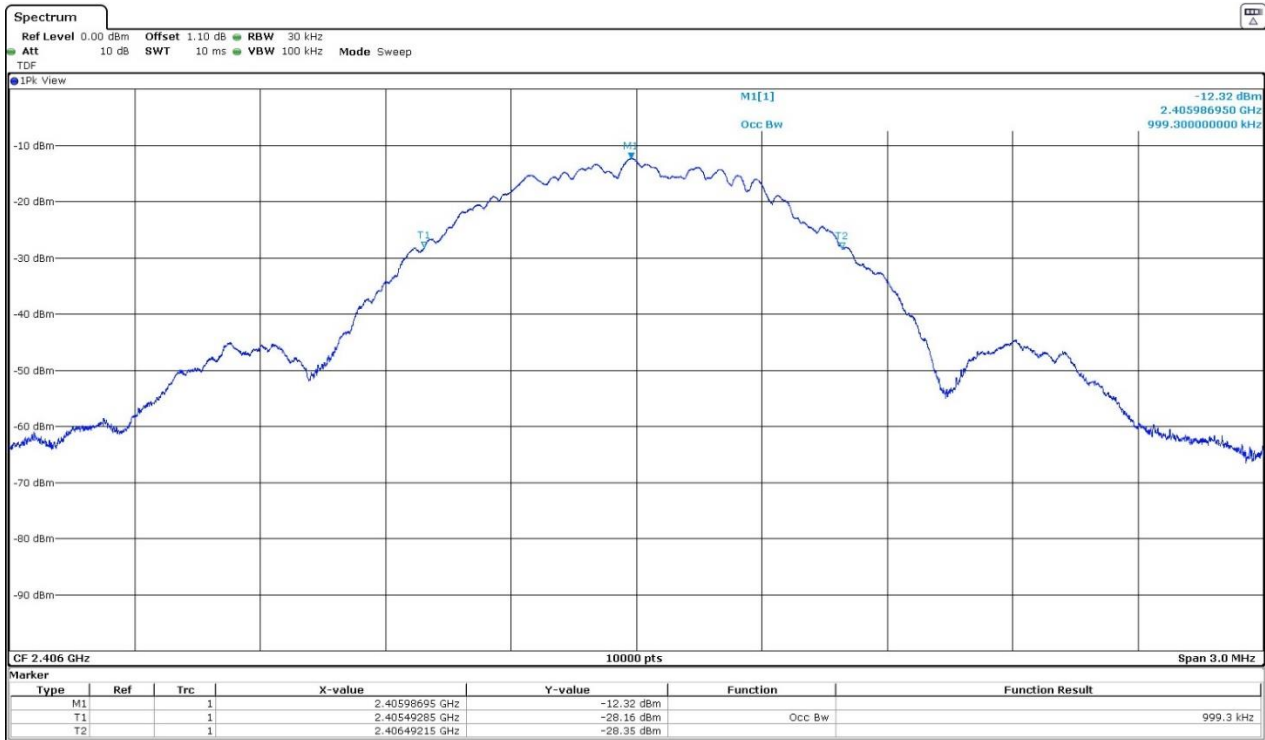
Verdict

Pass

Attachments

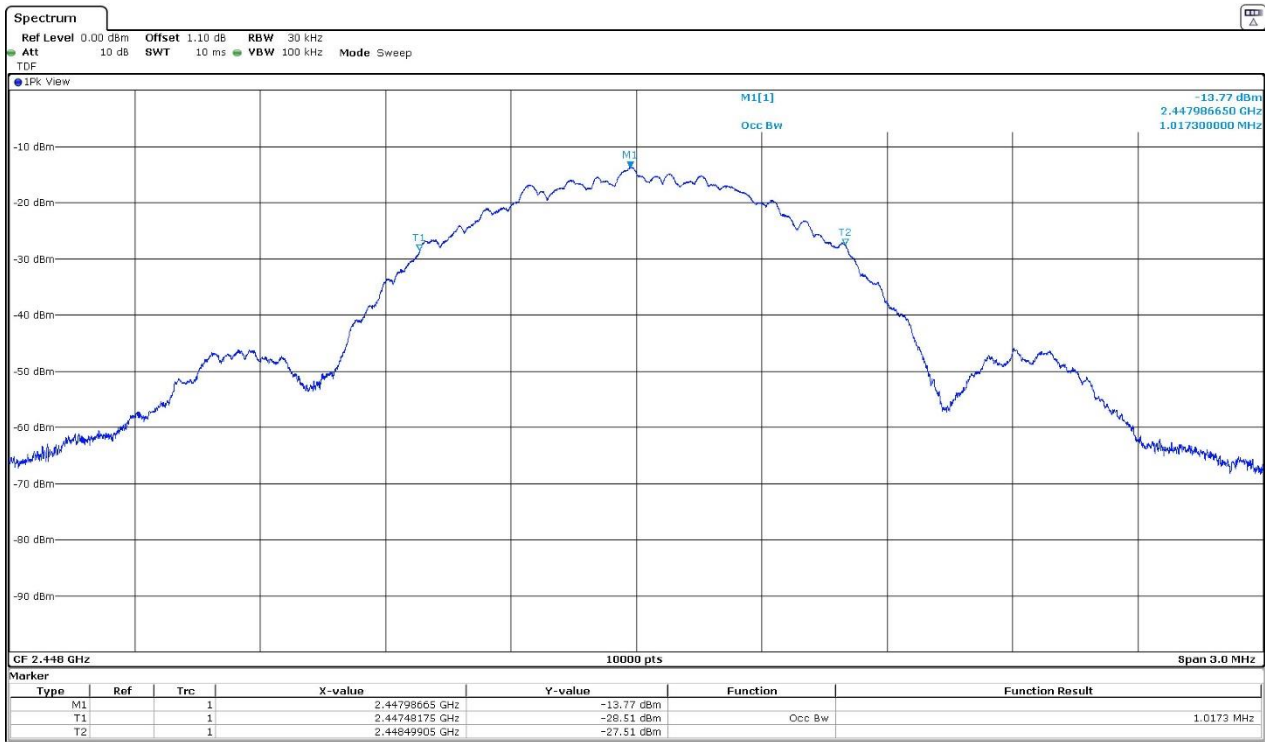
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = Proprietary 2.4GHz Frequency MHz = 2406.00000
MIMO Mode = SISO Active Port = 1

Images:



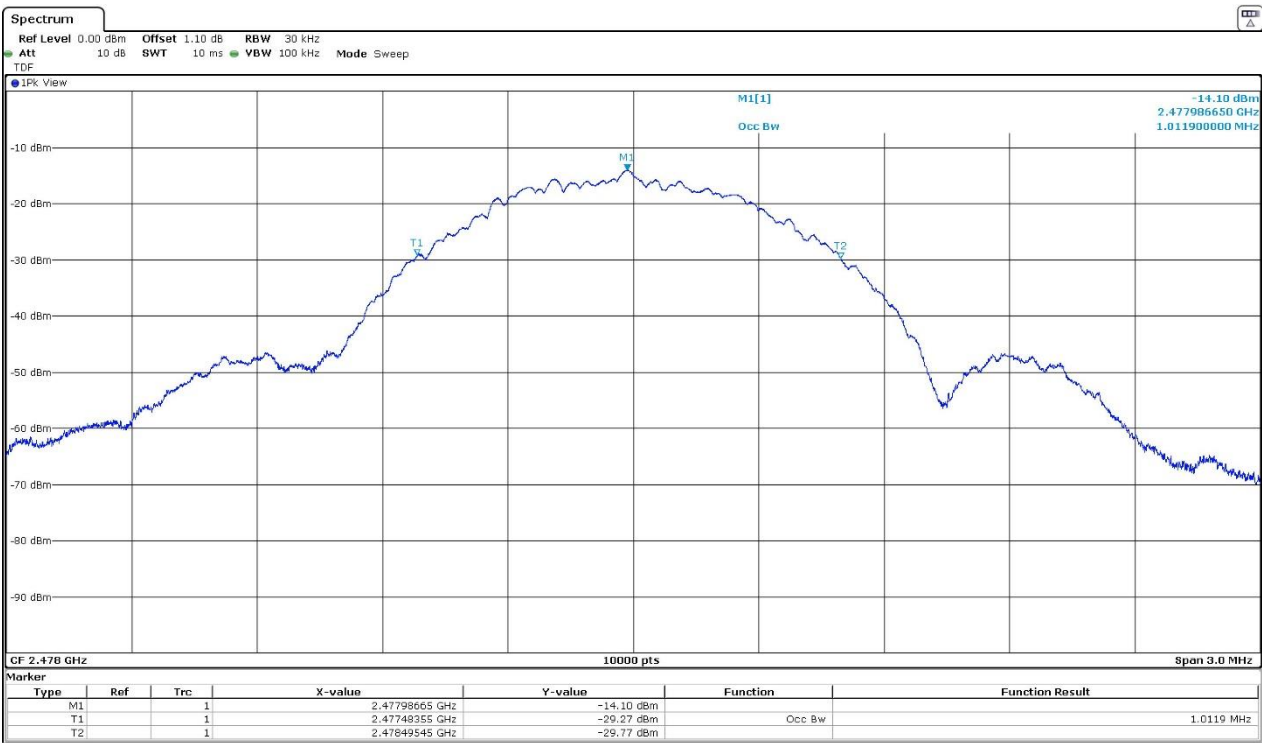
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = Proprietary 2.4GHz Frequency MHz = 2448.00000
MIMO Mode = SISO Active Port = 1

Images:



Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = Proprietary 2.4GHz Frequency MHz = 2478.00000
MIMO Mode = SISO Active Port = 1

Images:



15.249 Subclause (a) / RSS-210 B.10. (a) Field strength of fundamental and harmonics emissions

Limits

The field strength of emissions from intentional radiators shall comply with the following

Fundamental frequency (MHz)	Field strength of fundamental (mV/m)	Field strength (dBµV/m)	Measurement distance (m)
902 - 928	50	93.98	3
2400 – 2483.5	50	93.98	3
5725 - 5875	50	93.98	3
24000-24250	250	107.96	3

For frequencies above 1000 MHz, the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

Modulation: Proprietary 2.4GHz

Results

	Low Channel 2406 MHz	Middle Channel 2448 MHz	High Channel 2478 MHz
Peak Field Strength (dBµV/m)	78.53	79.99	83.98
Average Field Strength (dBµV/m)	76.83	78.52	82.65

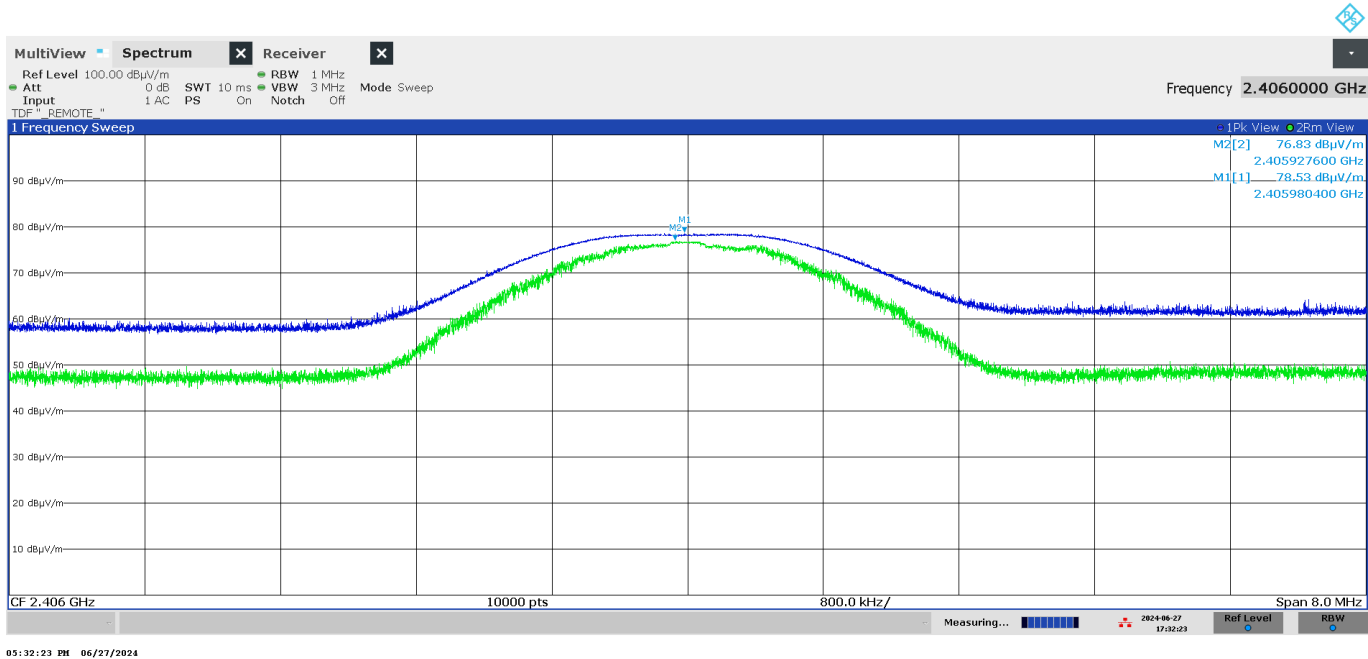
Verdict

Pass

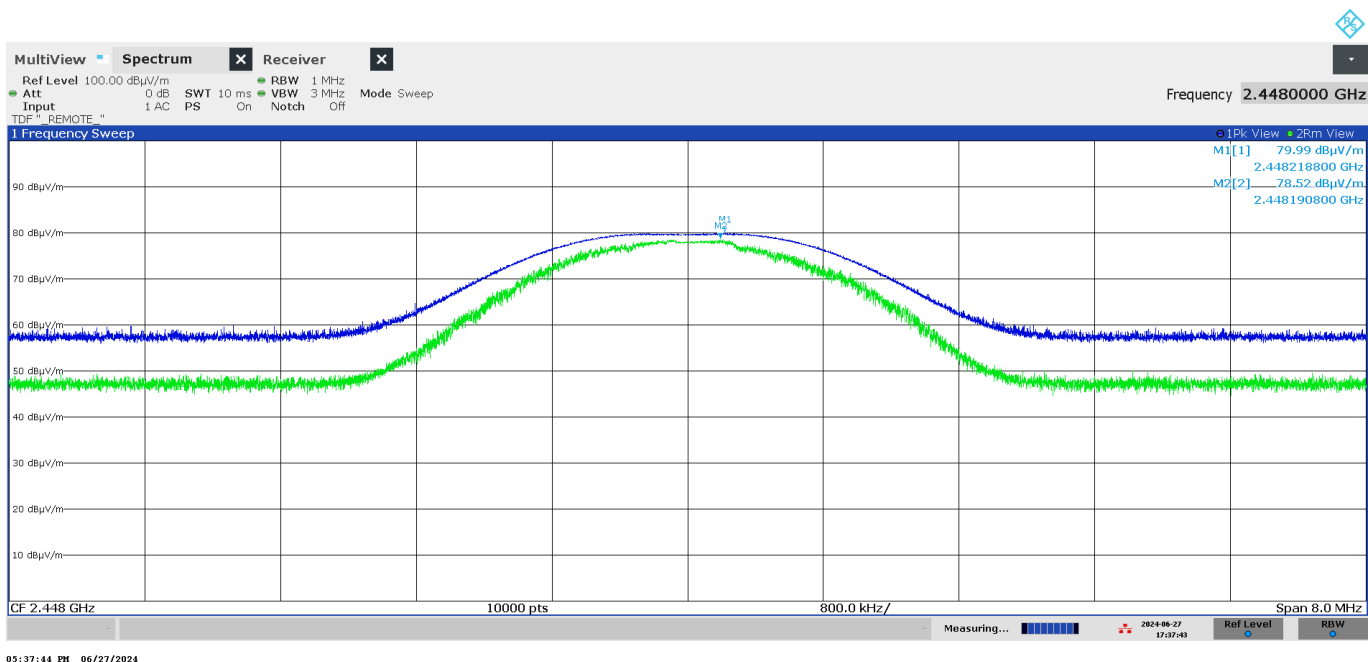
Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2406.00000 Modulation = Proprietary 2.4GHz

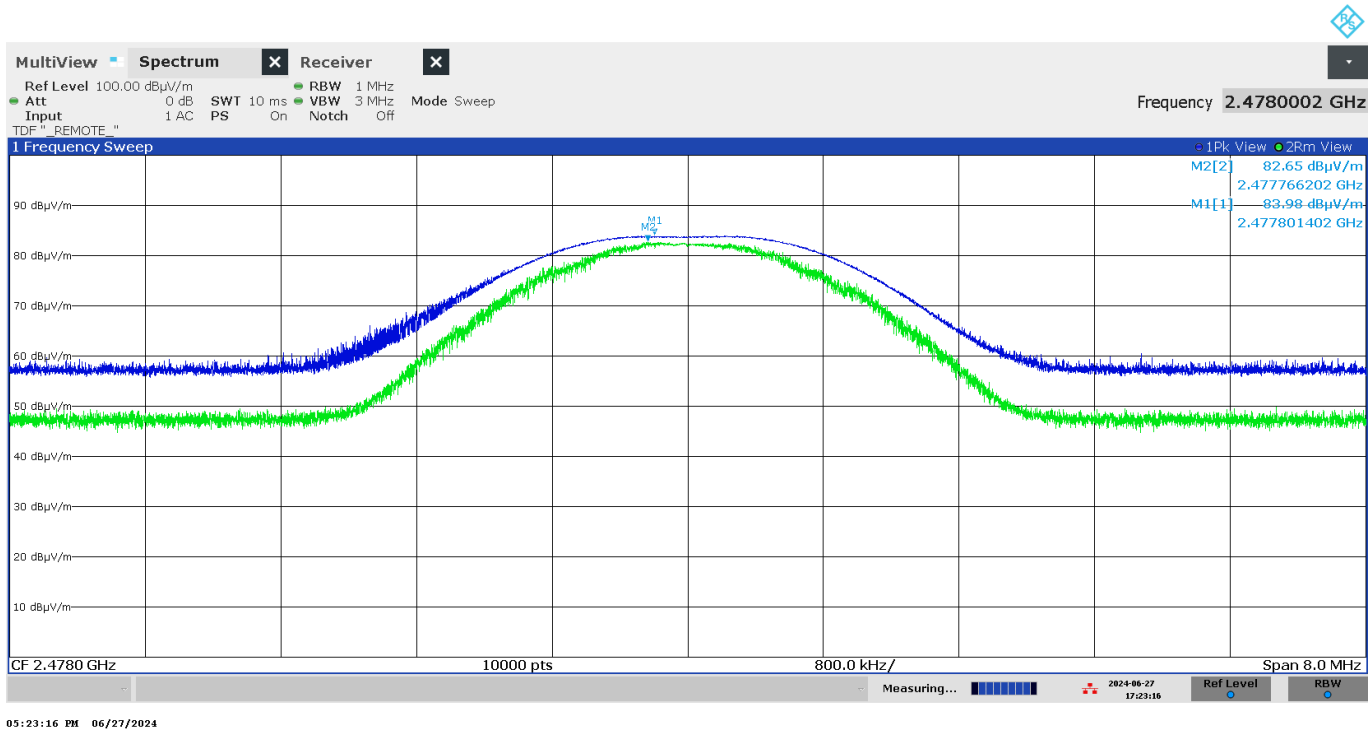
Images:



Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2406.00000 Modulation = Proprietary 2.4GHz



Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2406.00000 Modulation = Proprietary 2.4GHz



15.249 (d) (e) / RSS-210 B.10 (b) Emissions radiated outside of the specific frequency bands

Limits

The field strength of harmonics from intentional radiators shall comply with the following

Fundamental frequency (MHz)	Field strength of harmonics (µV/m)	Field strength of harmonics (dBµV/m)	Measurement distance (m)
902 - 928	500	54	3
2400 – 2483.5	500	54	3
5725 - 5875	500	54	3
24000-24250	2500	67.96	3

Emissions radiated outside of the specific frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of fundamental or to the general radiated emission limits specified in section 15.209:

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

Whichever is the lesser attenuation.

Modulation: Proprietary 2.4GHz

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Freq Rng (GHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
[2400, 2483.5]	Digital Transmission System (DTS)	2406.00000	[0.03, 1]	244.067		V	
				244.067	36.35	V	PK
				379.655		V	
				379.655	31.55	V	PK
				406.784		H	
				406.784	25.16	H	PK
		2448.00000		244.067		V	
				244.067	30.99	V	PK
				352.586		H	
				352.586	26.94	H	PK
				379.685		H	
				379.685	32.77	H	PK
		2478.00000		556.013		V	
				556.013	30.20	V	PK
				244.067		V	
				244.067	34.36	V	PK
				352.555		H	
				352.555	27.72	H	PK
				379.685		H	
				379.685	33.54	H	PK
				745.830		H	
				745.830	32.19	H	PK

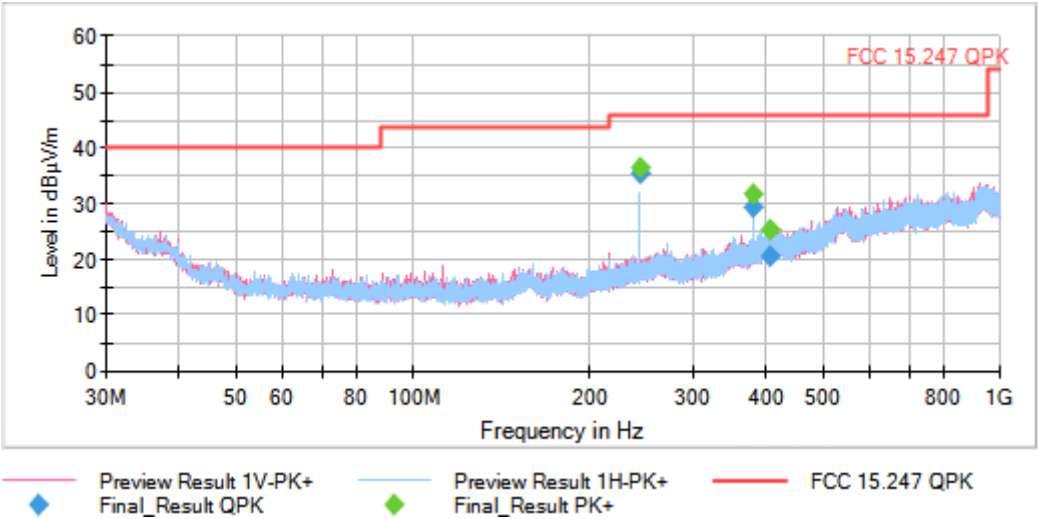
Verdict

Pass

Attachments

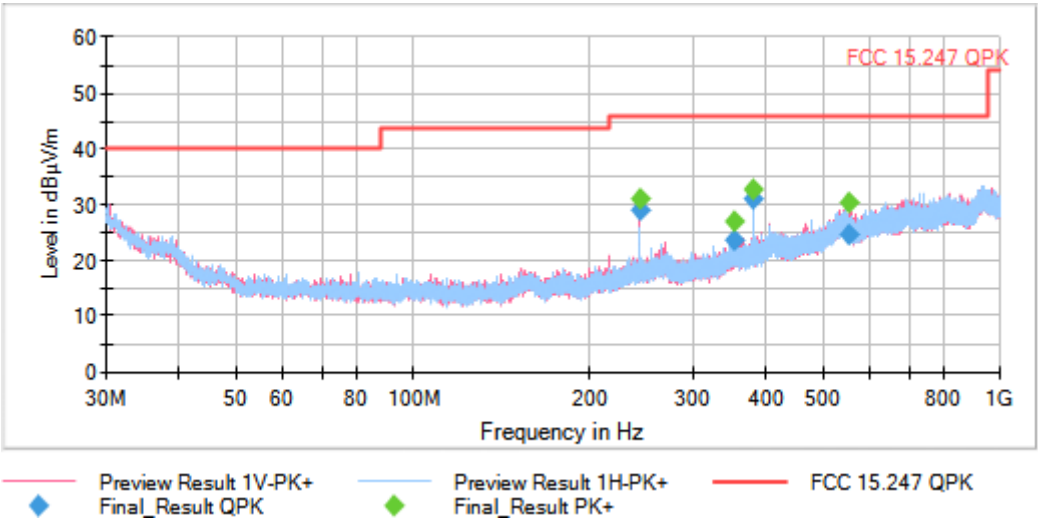
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2406.00000 Modulation = Proprietary 2.4GHz
Frequency Range GHz = [0.03, 1]

Images:



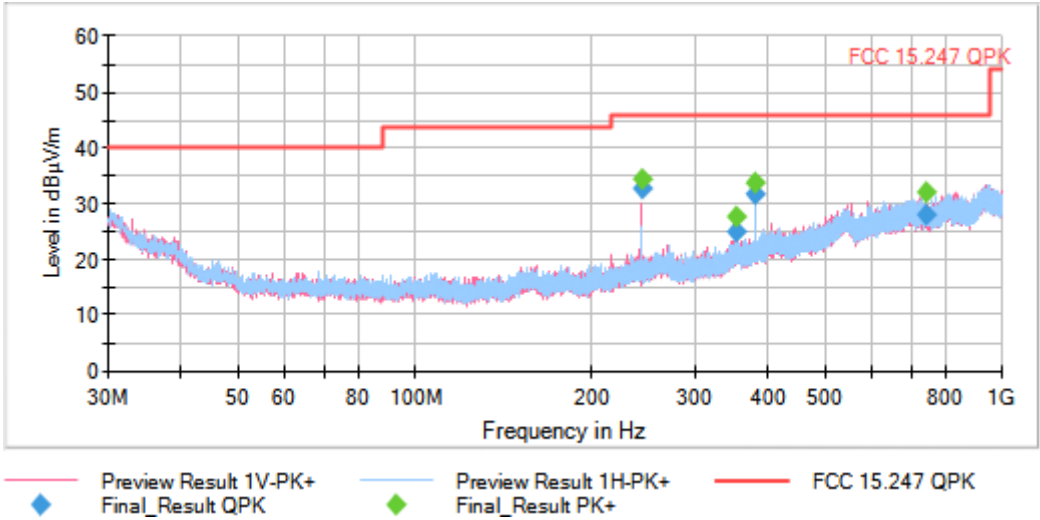
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2448.00000 Modulation = Proprietary 2.4GHz
Frequency Range GHz = [0.03, 1]

Images:



Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2478.00000 Modulation = Proprietary 2.4GHz
Frequency Range GHz = [0.03, 1]

Images:



Tables:
Spectrum Analyzer Parameters

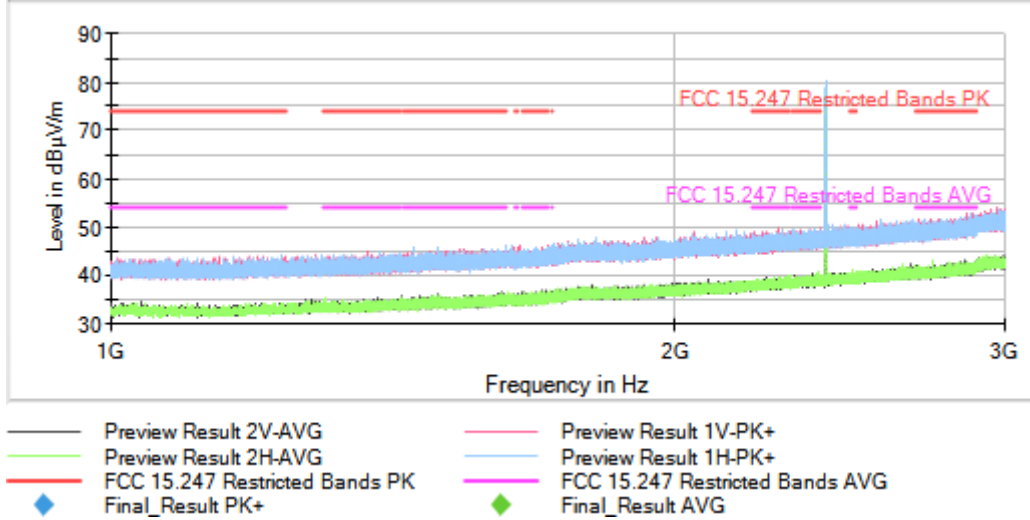
	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	30 MHz - 1 GHz	30,312 kHz	PK+	100 kHz	1 s	0 dB

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2406.00000 Modulation = Proprietary 2.4GHz

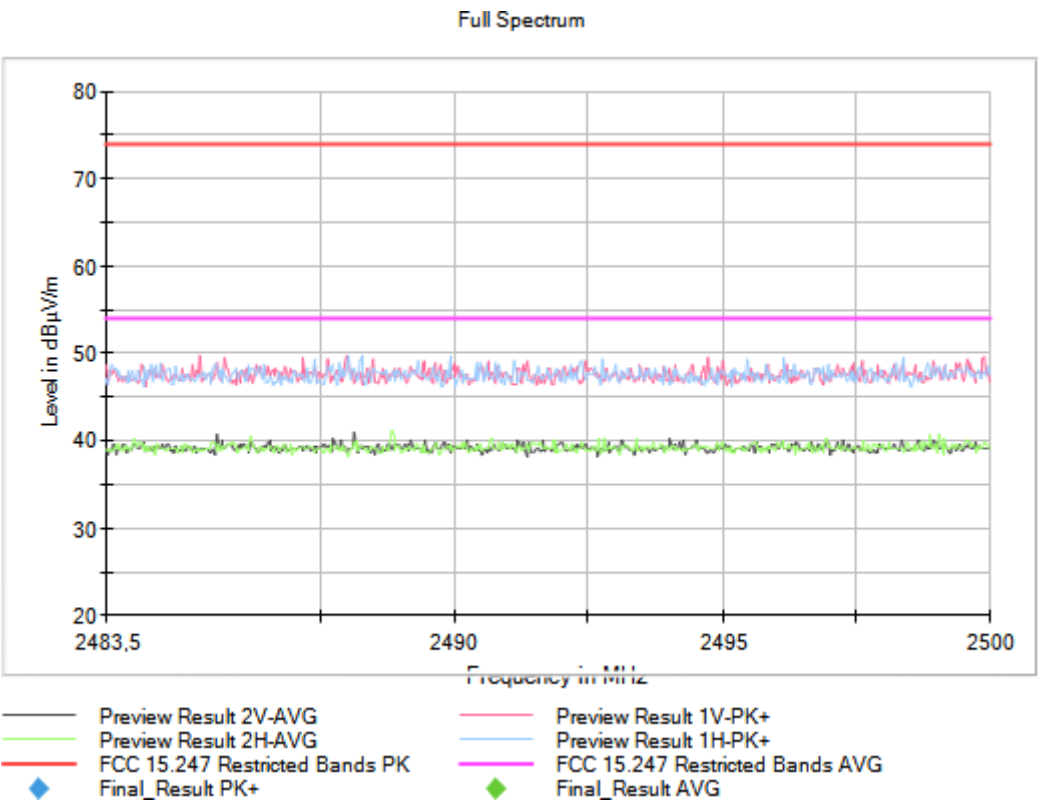
Frequency Range GHz = [1, 3]

Images:



Full Spectrum





Tables:
Spectrum Analyzer Parameters

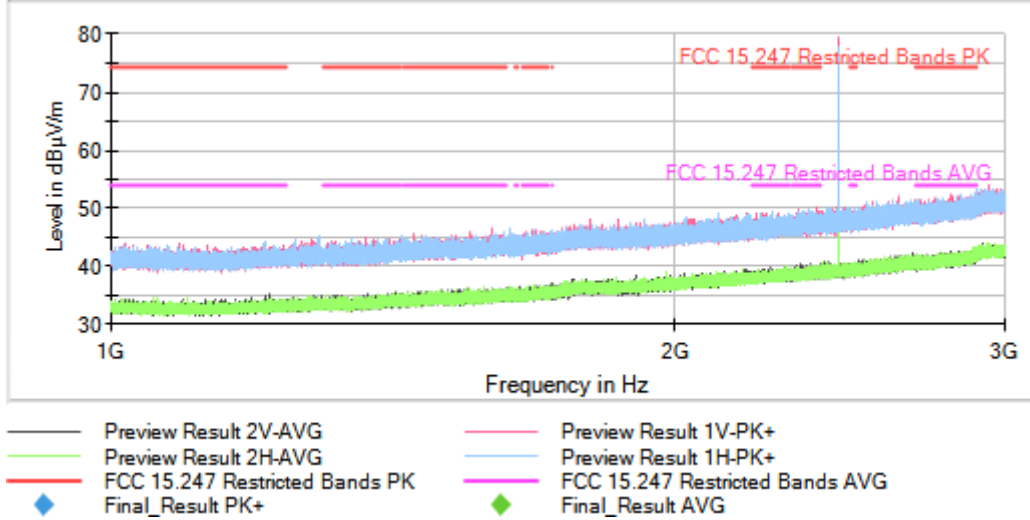
	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	1 GHz - 3 GHz	30,769 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2448.00000 Modulation = Proprietary 2.4GHz

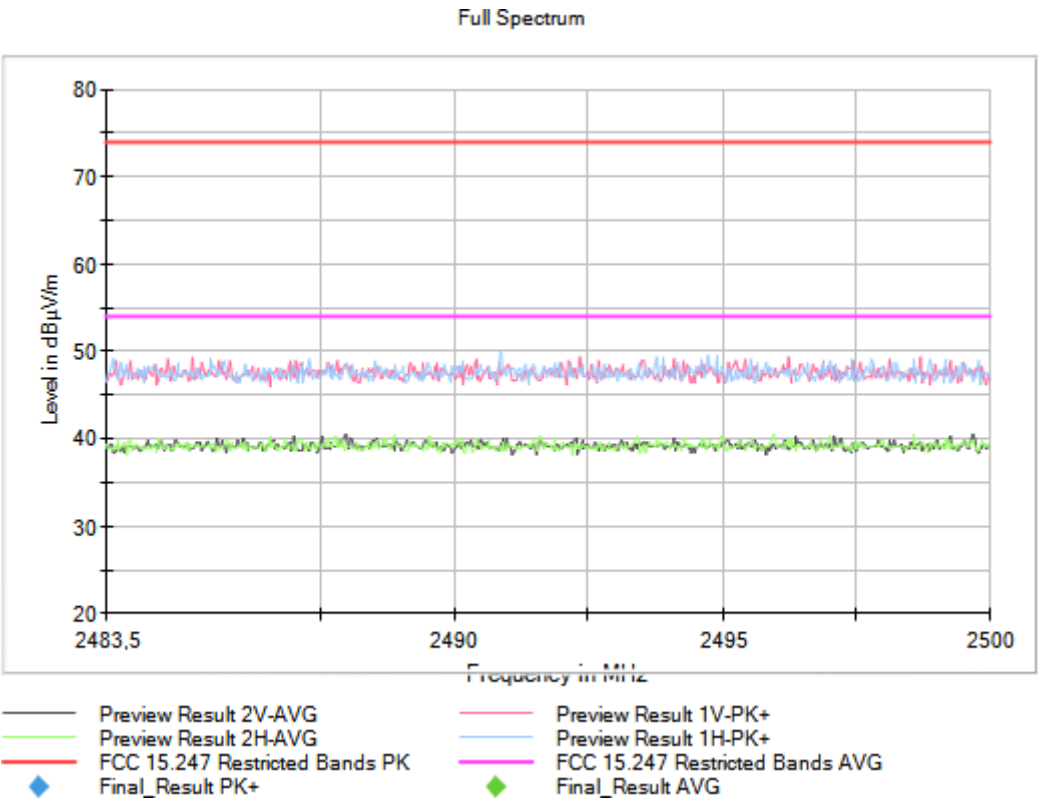
Frequency Range GHz = [1, 3]

Images:



Full Spectrum



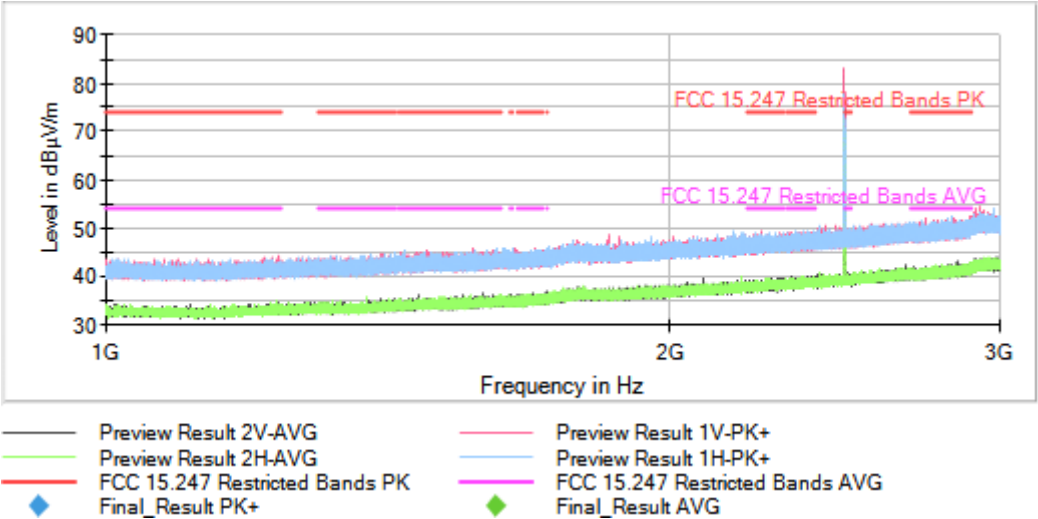


Tables:
Spectrum Analyzer Parameters

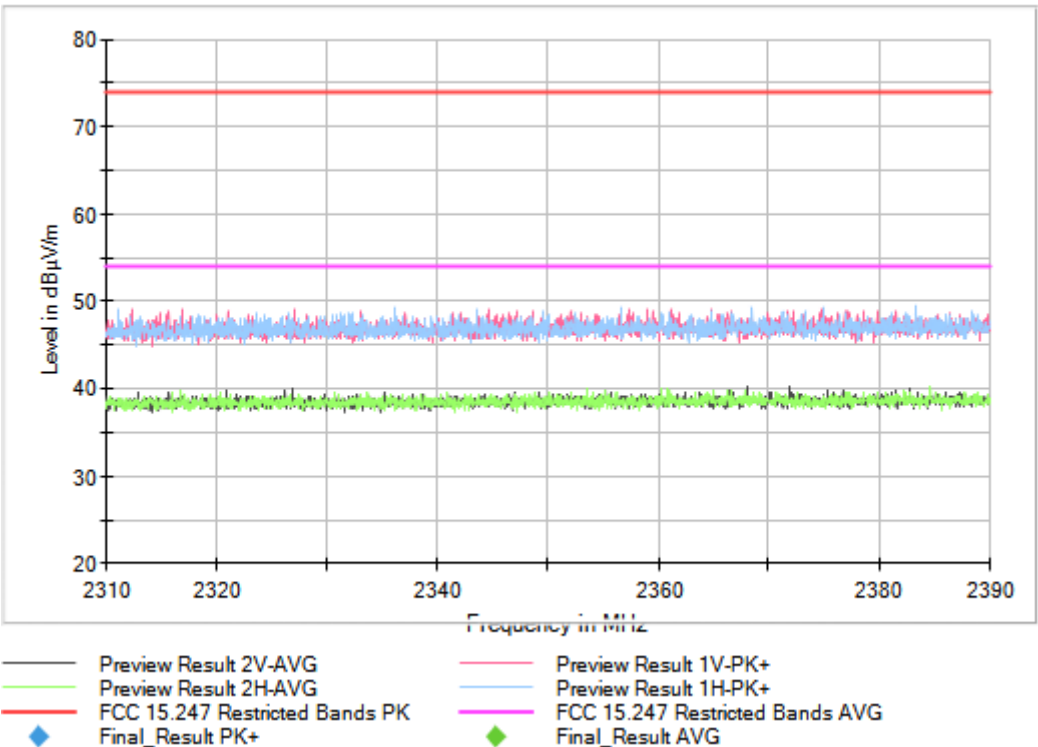
	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	1 GHz - 3 GHz	30,769 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

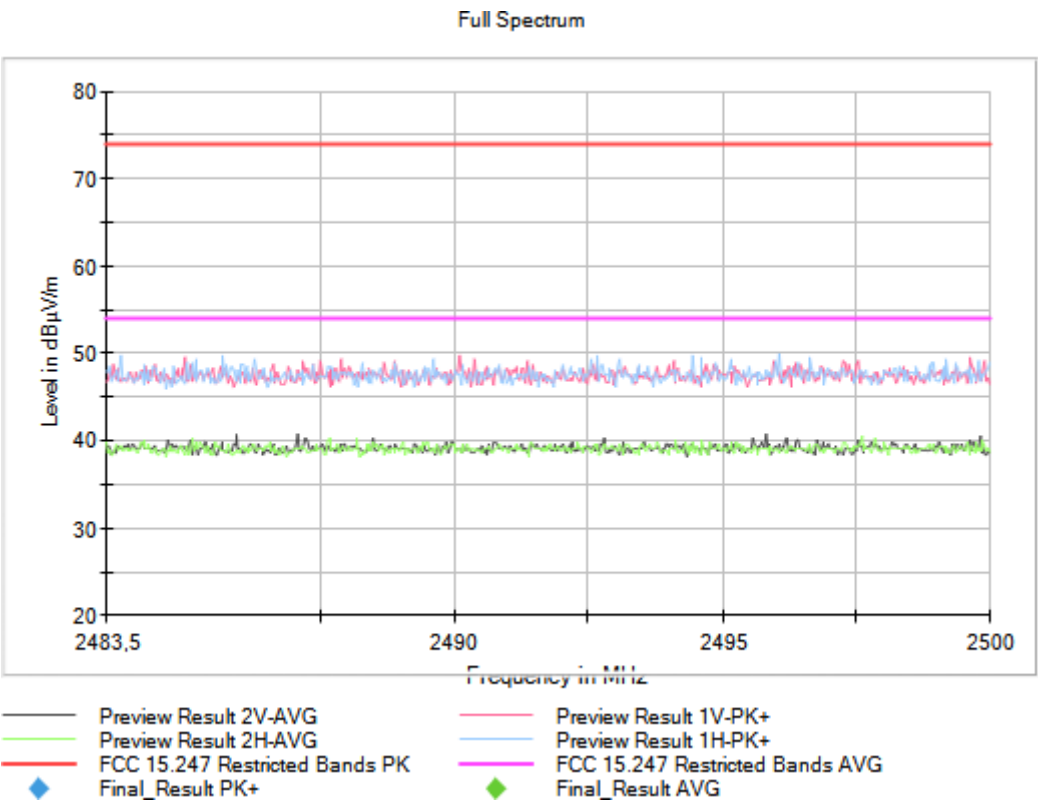
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2478.00000 Modulation = Proprietary 2.4GHz
Frequency Range GHz = [1, 3]

Images:



Full Spectrum



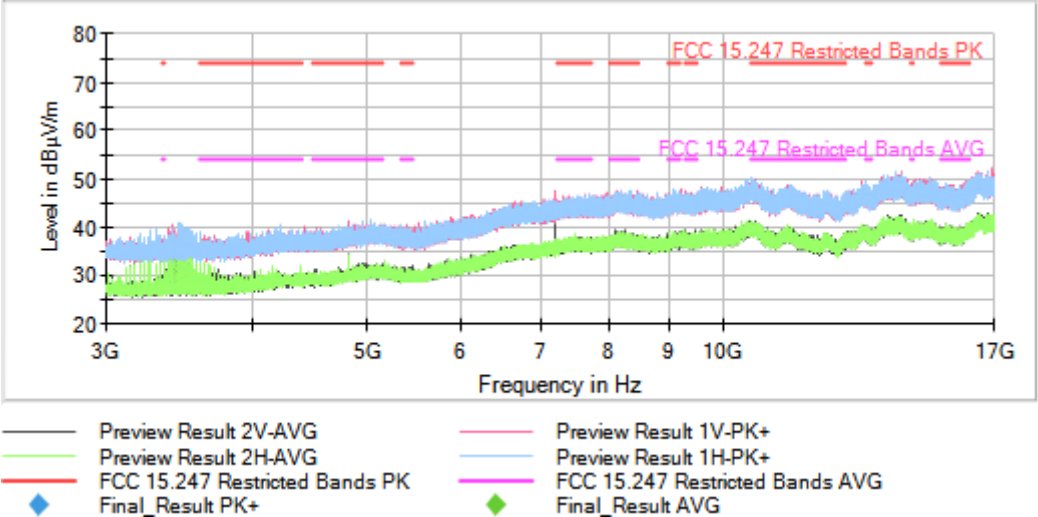


Tables:
Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	1 GHz - 3 GHz	30,769 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

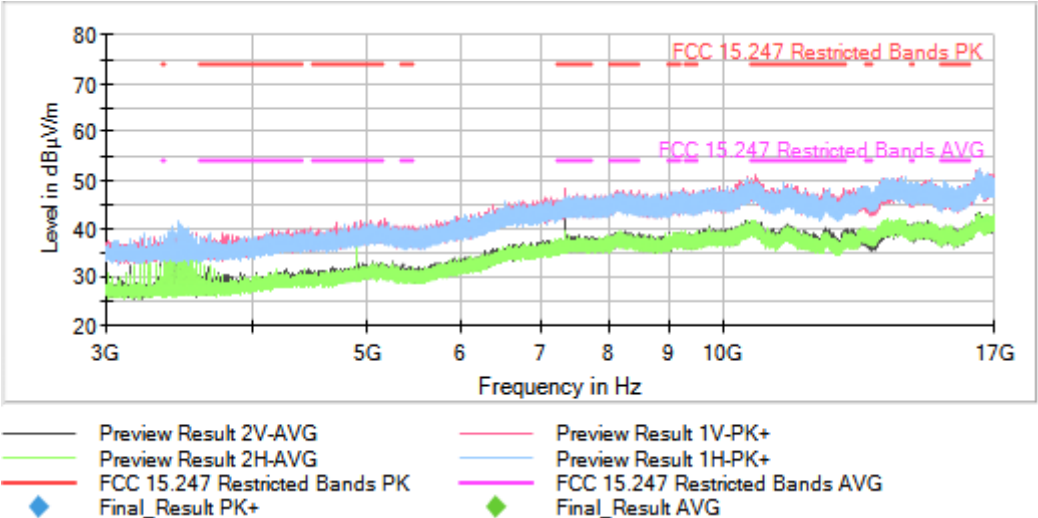
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2406.00000 Modulation = Proprietary 2.4GHz
Frequency Range GHz = [3, 17]

Images:



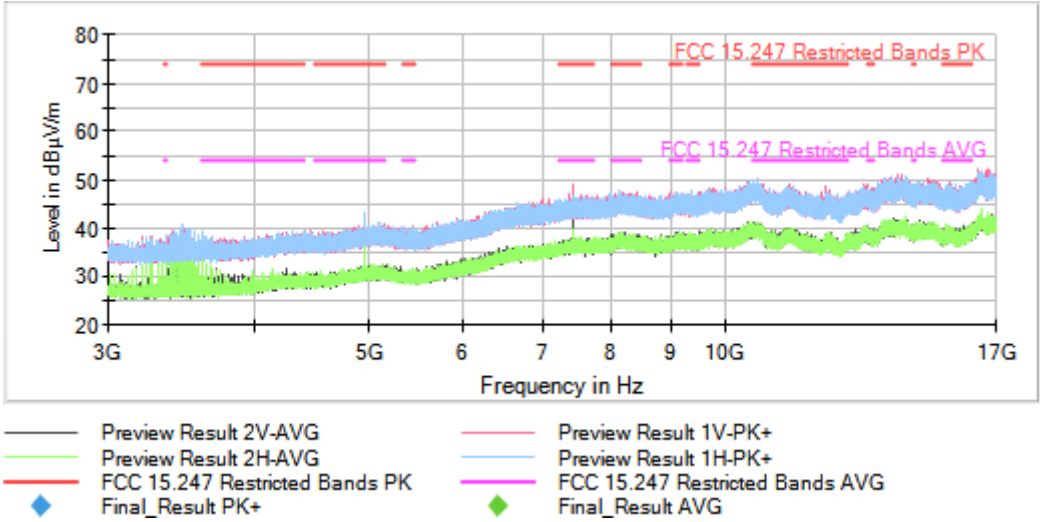
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2448.00000 Modulation = Proprietary 2.4GHz
Frequency Range GHz = [3, 17]

Images:



Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2478.00000 Modulation = Proprietary 2.4GHz
Frequency Range GHz = [3, 17]

Images:



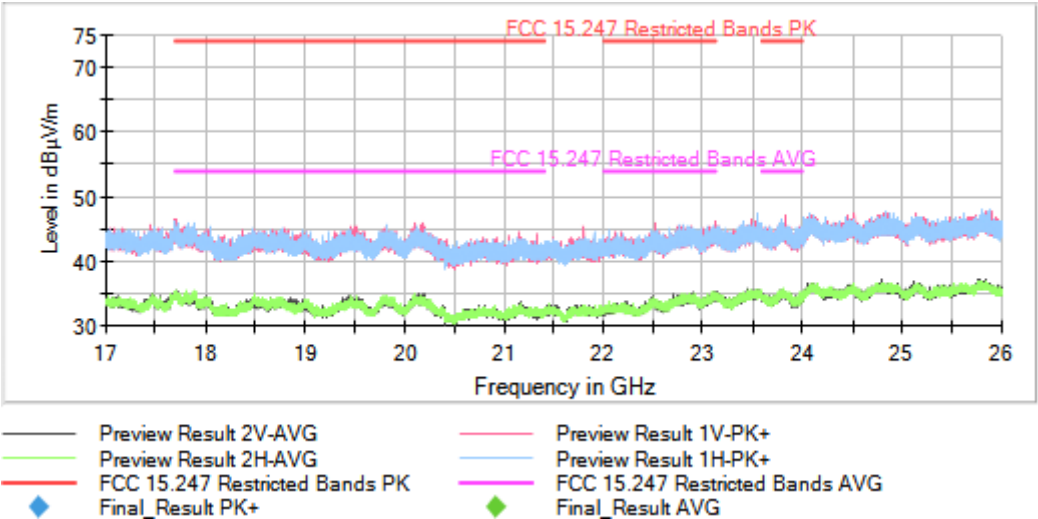
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	3 GHz - 17 GHz	140 kHz	PK+ ; AVG	1 MHz	1 s	30 dB

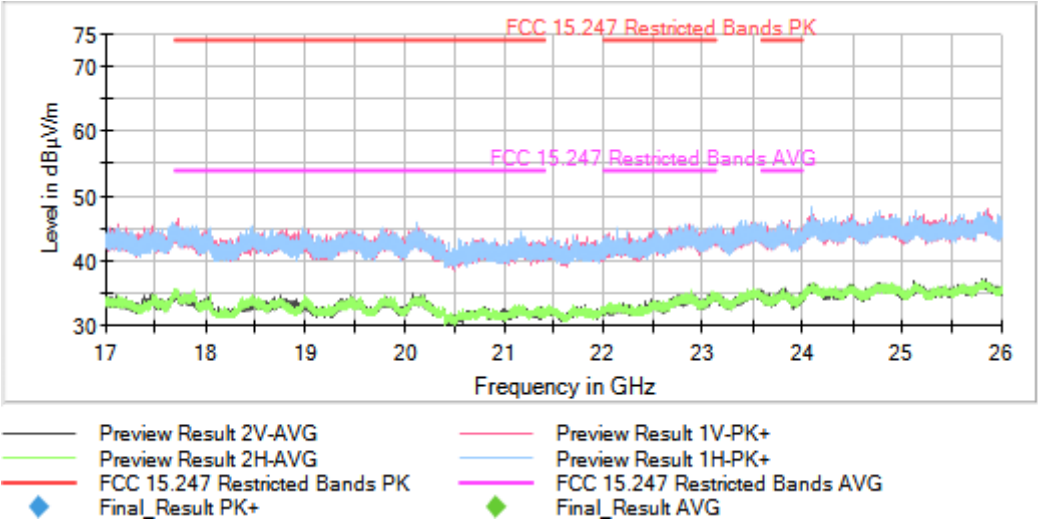
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2406.00000 Modulation = Proprietary 2.4GHz
Frequency Range GHz = [17, 26]

Images:



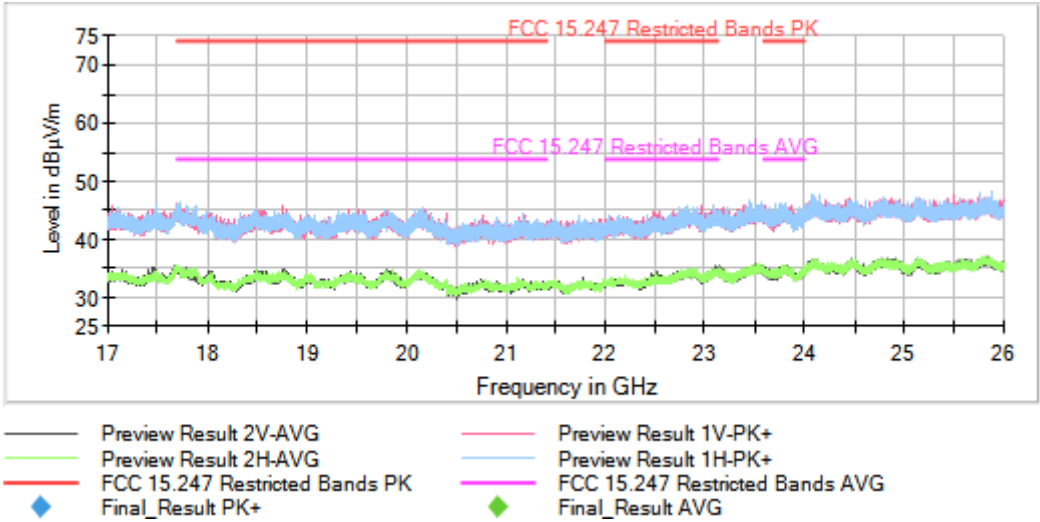
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2448.00000 Modulation = Proprietary 2.4GHz
Frequency Range GHz = [17, 26]

Images:



Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2478.00000 Modulation = Proprietary 2.4GHz
Frequency Range GHz = [17, 26]

Images:



Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [FSV 40]					
	17 GHz - 26 GHz	300 kHz	PK+ ; AVG	1 MHz	1 s	0 dB