

ISED CABid: ES1909

Test Report No:
NIE: 70435RRF.002

Partial Test Report

USA FCC Part 15.247, 15.209

CANADA RSS-247, RSS-Gen

(*) Identification of item tested	Wellness ring
(*) Trademark	OURA
(*) Model and /or type reference	LE1
Other identification of the product	HW version: BLB_03 SW version: 2.6.7 FCC ID: 2AD7V-OURA2101 IC: 20635-OURA2101
(*) Features	Sleep Analysis, Activity Monitoring, Readiness Score, Bluetooth LE
Manufacturer	Oura Health Oy Elektroniikkatie 10, 90590 Oulu, Finland
Test method requested, standard	USA FCC Part 15.247 (10-1-20 Edition): Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz. USA FCC Part 15.209 (10-1-20 Edition): Radiated emission limits; general requirements. CANADA RSS-247 Issue 2 (February 2017). CANADA RSS-Gen Issue 5 amendment 1 (March 2019). Guidance for Performing Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid Systems Devices Operating Under Section 15.247 of the FCC Rules. 558074 D01 Meas Guidance v05r02 dated April 2, 2019. ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Approved by (name / position & signature)	Jose Manuel Gómez Industrial & Automotive EMC Lab. Manager 
Date of issue	2022-03-02
Report template No	FDT08_23 (*) "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

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

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

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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 ($k = 2$).

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 Wellness ring. LE1 is a revolutionary wellness ring and app, designed to help user gets more restful sleep and performs better. It enables user to learn how the lifestyle choices affect user's sleep, and how the quality of the sleep affects user's ability to perform. The LE1 ring can automatically tell when user is sleeping. When user goes to sleep, the LE1 ring analyzes the quality of the rest and recovery by measuring the heart rate (optically), respiration rate, body temperature, and movement. While user is awake, it monitors the duration and intensity of the activities, and the time user spends sitting. The OURA app integrates and visualizes this data to identify patterns between the sleep quality and daily activities. By understanding how well user slept and recharged, it can determine the readiness to perform and help user adjust the intensity and duration of the day's activities. It can also uncover actionable insights for changes to the daily activities that can help user sleep better..

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	70435B_1	Smart ring	LE1 (size 11)	--	2022-01-19	Element Under Test
S/01	70435B_19	USB cable	--	--	2022-01-19	Element Under Test
S/01	70435B_9	Charger #1	LE1	--	2022-01-19	Element Under Test

Notes referenced to samples during the project:

Id	Type
S/01	Radiated

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:	[]	[]	[]	[]	[]
	[]	DC:					
Rated Power							
Clock frequencies..... :							
Other parameters							
Software version	2.6.7						
Hardware version	BLB_03						
Dimensions in cm (W x H x D)							
Mounting position	[]	Table top equipment					
	[]	Wall/Ceiling mounted equipment					
	[]	Floor standing equipment					
	[X]	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

Oura Health Oy
Elektroniikkatie 10, 90590 Oulu, Finland

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2022-02-03
Date (finish)	2022-02-14

Document history

Report number	Date	Description
70435RRF.002	2022-02-22	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 %

Remarks and comments

The tests have been performed by the technical personnel: Daniel Mejías Herrera and Jaime Barranquero Gómez.
Used instrumentation:

Equipment	Model	Manufacturer	Next Calibration
SEMIANECHOIC ABSORBER LINED CHAMBER	P29419	ALBATROSS	N.A.
SHIELDED ROOM	P29419	ALBATROSS	N.A.
SIGNAL AND SPECTRUM ANALYZER 10Hz-40GHz	FSV40	ROHDE AND SCHWARZ	2023-10-22
EMI TEST RECEIVER 20Hz-26.5GHz	ESU26	ROHDE AND SCHWARZ	2022-11-05
HORN ANTENNA 1-18GHz	BBHA 9120D	SCHWARZBECK MESS-ELEKTRONIK	2022-11-15
HORN ANTENNA 18-40GHz	BBHA 9170	SCHWARZBECK	2024-03-19
PRE-AMPLIFIER G>30dB 18-40GHz	BLMA 1840-3G	BONN ELEKTRONIK	2023-02-15
PREAMPLIFIER 30dB 500MHz-18GHz	BBV 9718 C	SCHWARZBECK	2022-03-01
ULTRALOG ANTENNA 30MHz-6GHz	HL562E_UPG	ROHDE AND SCHWARZ	2022-10-15

Testing verdicts

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

Summary

1. Bluetooth Low Energy 5.0 (2M, 1M).

FCC PART 15 PARAGRAPH/ RSS-247			
Requirement – Test case		Verdict	Remark
FCC 15.247 (a)(2) / RSS-247 5.2. (a)	6 dB Bandwidth	N/M	(1)
FCC 15.247 (b) / RSS-247 5.4. (d)	Maximum output power and antenna gain	N/M	(1)
FCC 15.247 (d) / RSS-247 5.5.	Band-edge emissions compliance (Transmitter)	N/M	(1)
FCC 15.247 (e) / RSS-247 5.2. (b)	Power spectral density	N/M	(1)
FCC 15.247 (d) / RSS-247 5.5.	Emission limitations radiated (Transmitter)	P	
Supplementary information and remarks:			
1. Only radiated test is requested			

Appendix A: Test results. Bluetooth Low Energy 5.0 (2M, 1M)

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 FCC 47 CFR PART 15.247 / RSS-24714

 RSS-247 5.5 / FCC 15.247 (d) [RSE] Emission limitations radiated (Transmitter)14

TEST CONDITIONS

(*): Data provided by the client.

POWER SUPPLY (*):

Vnominal:	3.7 V DC
Type of Power Supply:	Battery

ANTENNA (*):

Type of Antenna:	Integral
Maximum Declared Antenna Gain:	-24.9 dBi

TEST FREQUENCIES (*):

Low Channel:	2402 MHz
Middle Channel:	2440 MHz
High Channel:	2480 MHz

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).

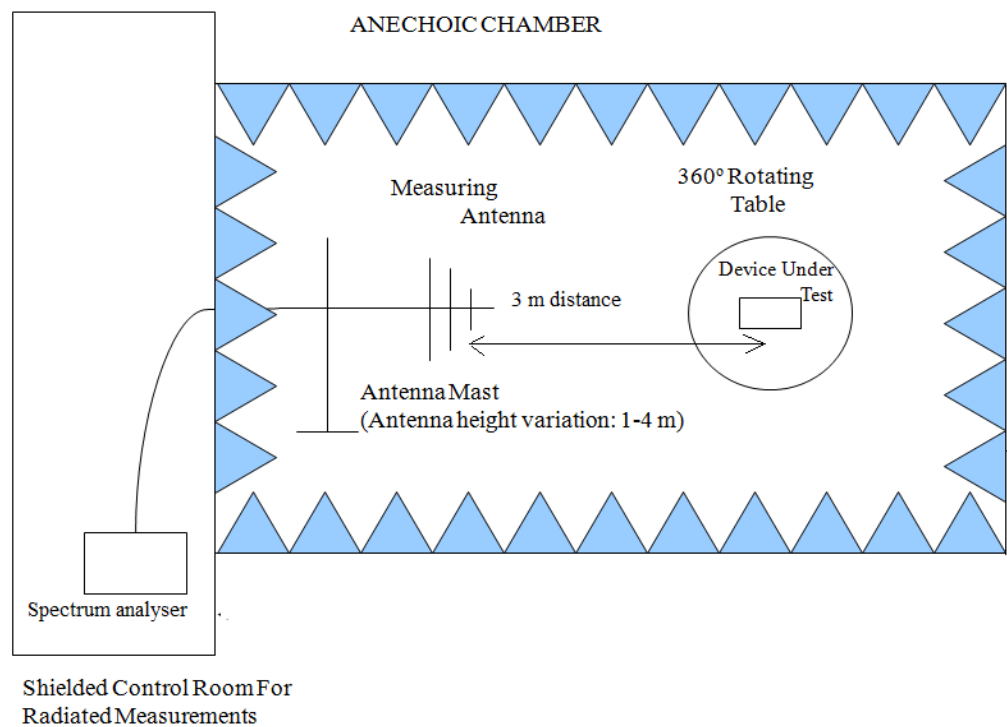
For radiated emissions in the range 17 GHz-26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

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.

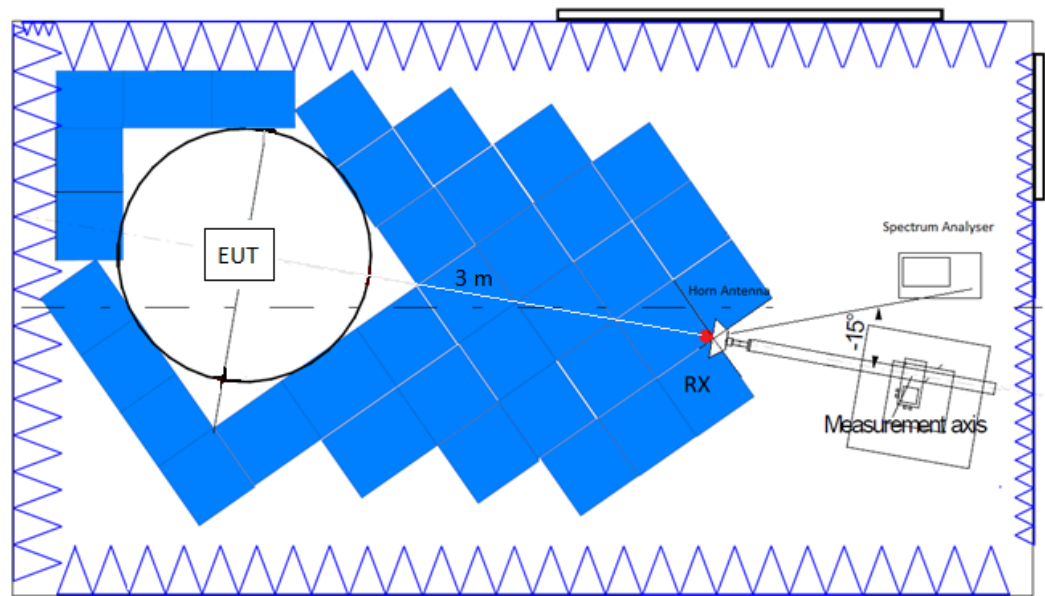
Measurements were made in both horizontal and vertical planes of polarization.

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.

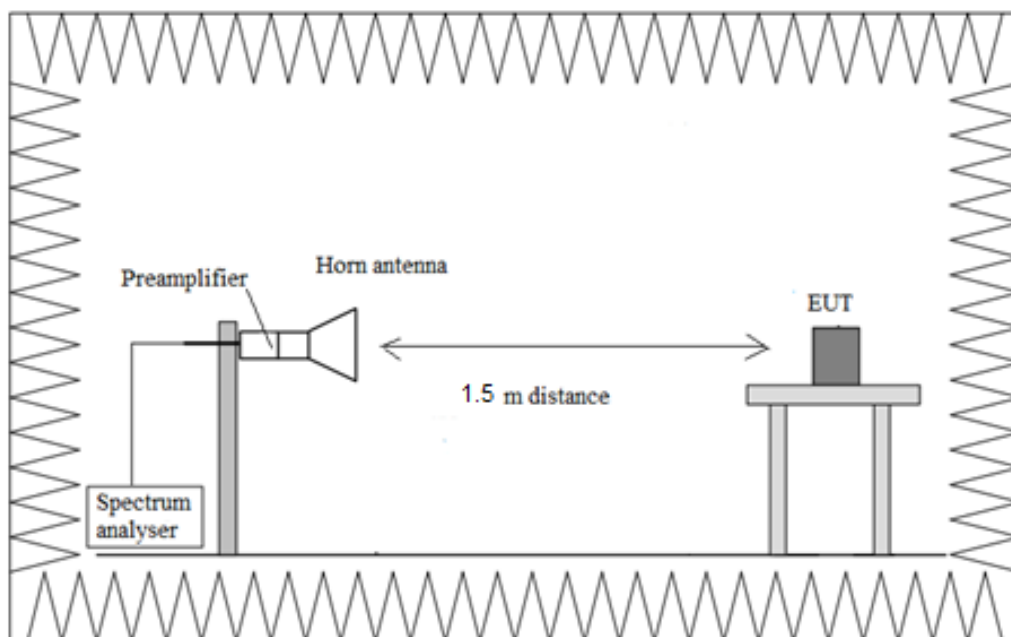
Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1 GHz to 17 GHz:



Radiated measurements setup $f > 17$ GHz:



TEST CASES DETAILS

FCC 47 CFR Part 15.247 / RSS-247

RSS-247 5.5 / FCC 15.247 (d) [RSE] Emission limitations radiated (Transmitter)

Limits

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)/RSS-Gen):

Frequency Range (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	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
Above 960	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RSS-247: Attenuation below the general field strength limits specified in RSS-Gen is not required.

Modulation: BTLE 5.0 (GFSK 2 Mbit/s)

Results

Freq (MHz)	Freq Rng (GHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	PoI	Detector
2402.00000	[0.03, 1]	33.880	26.64	V	PK
2402.00000		33.880	23.20	V	QP
2402.00000		47.411	27.64	V	PK
2402.00000		47.411	25.39	V	QP
2402.00000		54.202	31.50	V	PK
2402.00000		54.202	30.34	V	QP
2402.00000		60.992	30.98	V	PK
2402.00000		60.992	28.09	V	QP
2402.00000		67.781	39.35	V	PK
2402.00000		67.781	38.39	V	QP
2402.00000		74.572	40.00	V	PK
2402.00000		74.572	39.09	V	QP
2402.00000		88.151	39.03	V	PK
2402.00000		88.151	38.52	V	QP
2402.00000		94.893	30.87	V	PK
2402.00000		94.893	29.68	V	QP
2440.00000	[0.03, 1]	33.880	33.17	V	PK
2440.00000		33.880	31.55	V	QP
2440.00000		47.460	30.60	V	PK
2440.00000		47.460	29.28	V	QP
2440.00000		54.202	32.18	V	PK
2440.00000		54.202	30.48	V	QP
2440.00000		60.992	30.95	V	PK
2440.00000		60.992	27.88	V	QP
2440.00000		67.781	39.65	V	PK
2440.00000		67.781	38.47	V	QP
2440.00000		74.572	40.17	V	PK
2440.00000		74.572	39.32	V	QP
2440.00000		88.103	37.30	V	PK
2440.00000		88.103	36.54	V	QP
2440.00000		94.893	31.20	V	PK
2440.00000		94.893	30.25	V	QP
2480.00000	[0.03, 1]	33.880	32.82	V	PK
2480.00000		33.880	30.98	V	QP
2480.00000		40.670	29.45	V	PK
2480.00000		40.670	27.64	V	QP

Freq (MHz)	Freq Rng (GHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
2480.00000		47.460	30.66	V	PK
2480.00000		47.460	29.20	V	QP
2480.00000		54.202	32.04	V	PK
2480.00000		54.202	30.61	V	QP
2480.00000		60.992	31.50	V	PK
2480.00000		60.992	28.42	V	QP
2480.00000		67.781	38.73	V	PK
2480.00000		67.781	37.87	V	QP
2480.00000		74.572	40.20	V	PK
2480.00000		74.572	39.33	V	QP
2480.00000		88.103	36.71	V	PK
2480.00000		88.103	36.08	V	QP
2480.00000		94.893	31.07	V	PK
2480.00000		94.893	30.06	V	QP
2440.00000	[3, 17]	15028.000	59.97	H	PK
2440.00000		15028.000	49.45	H	AVG

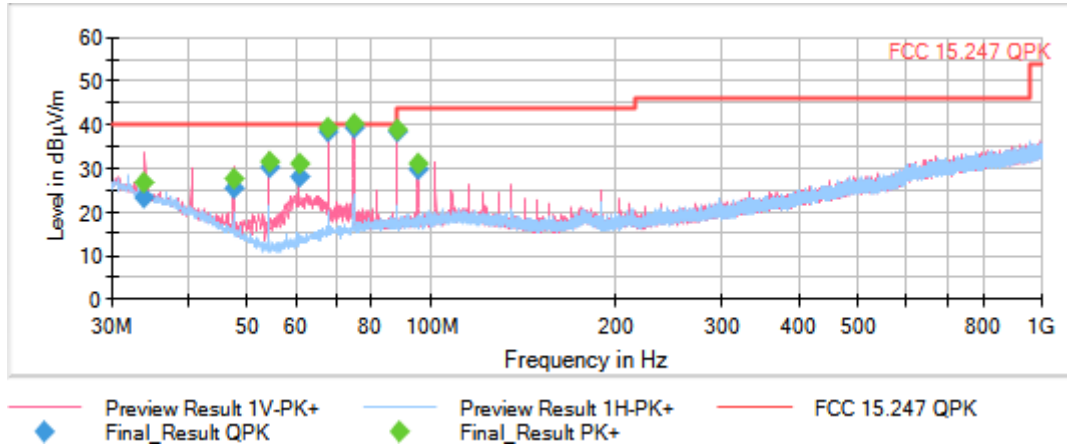
Verdict

Pass

Attachments

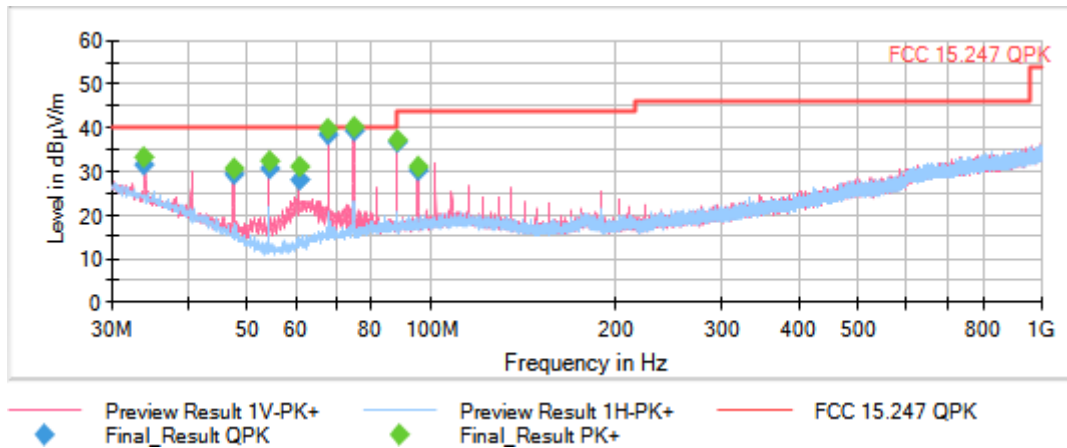
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Images:



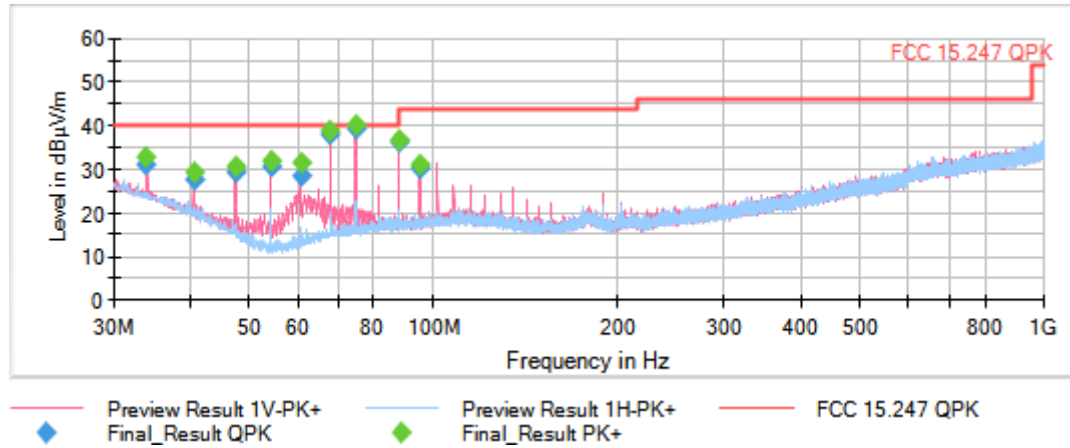
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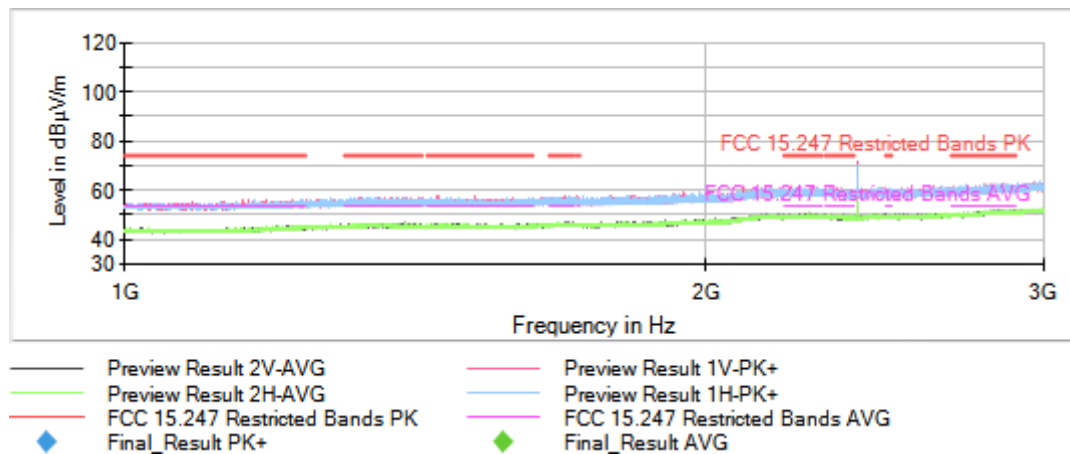
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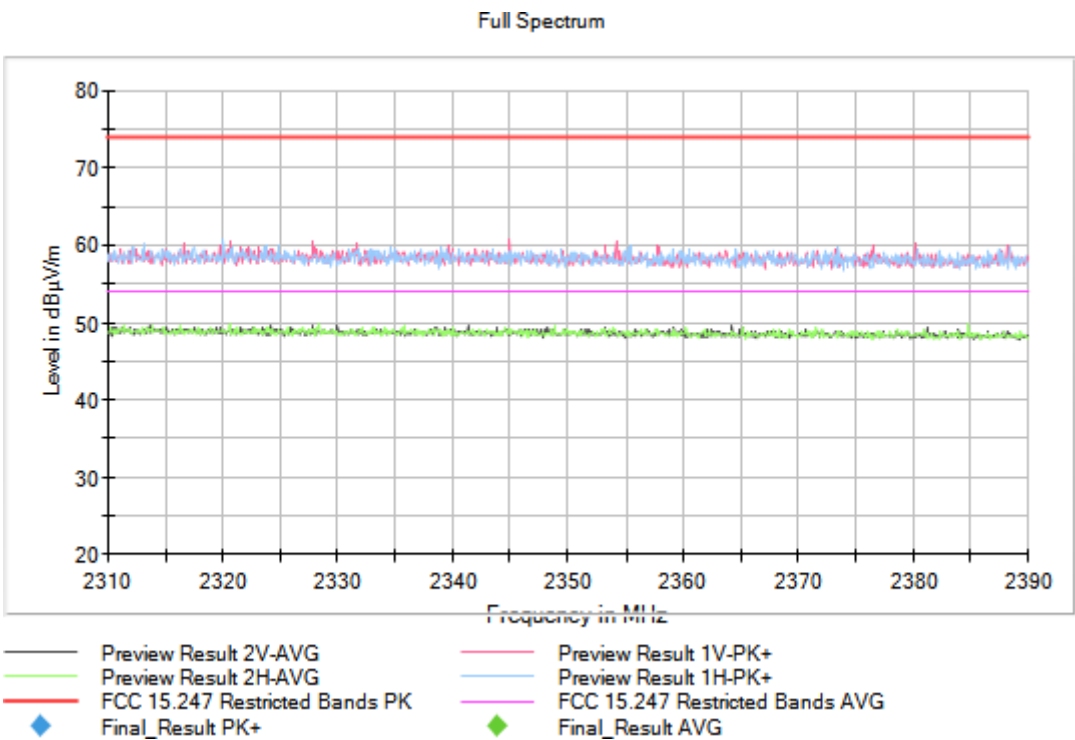
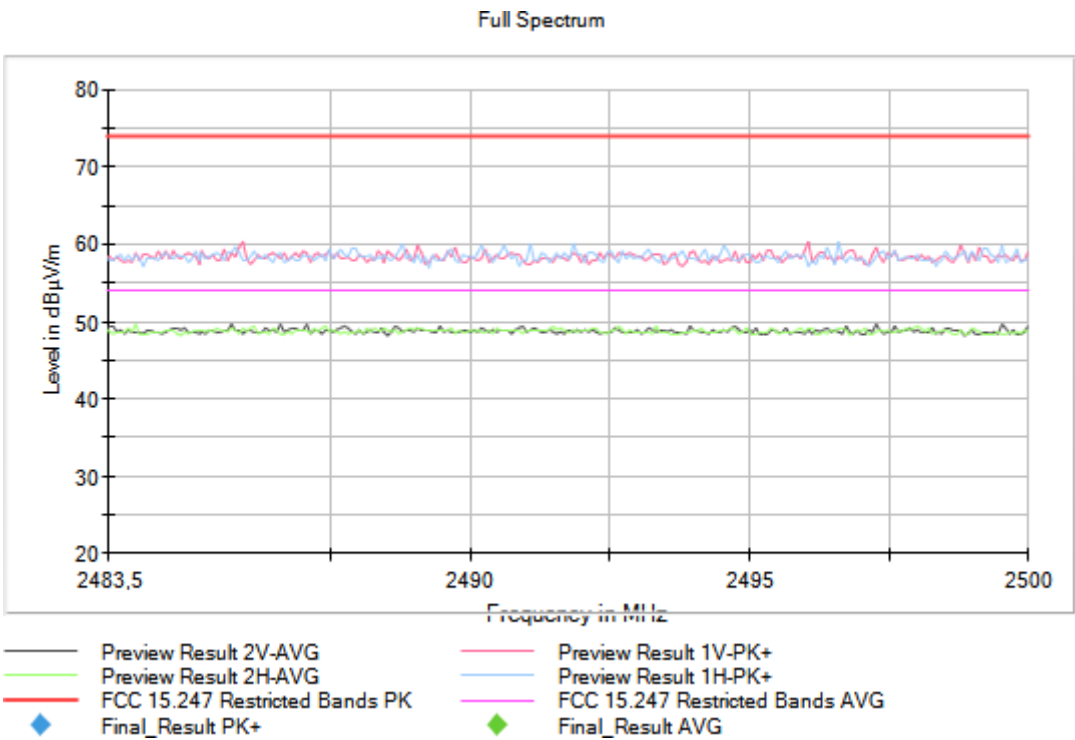
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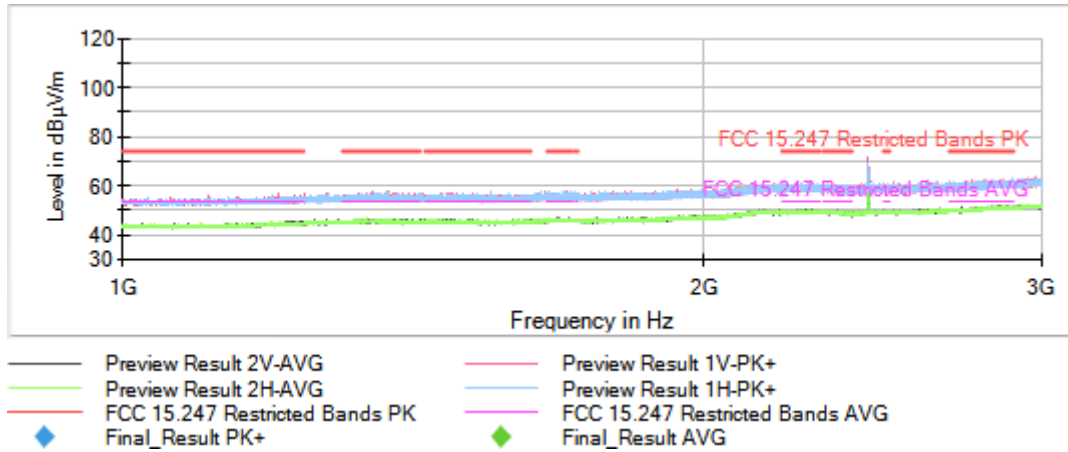
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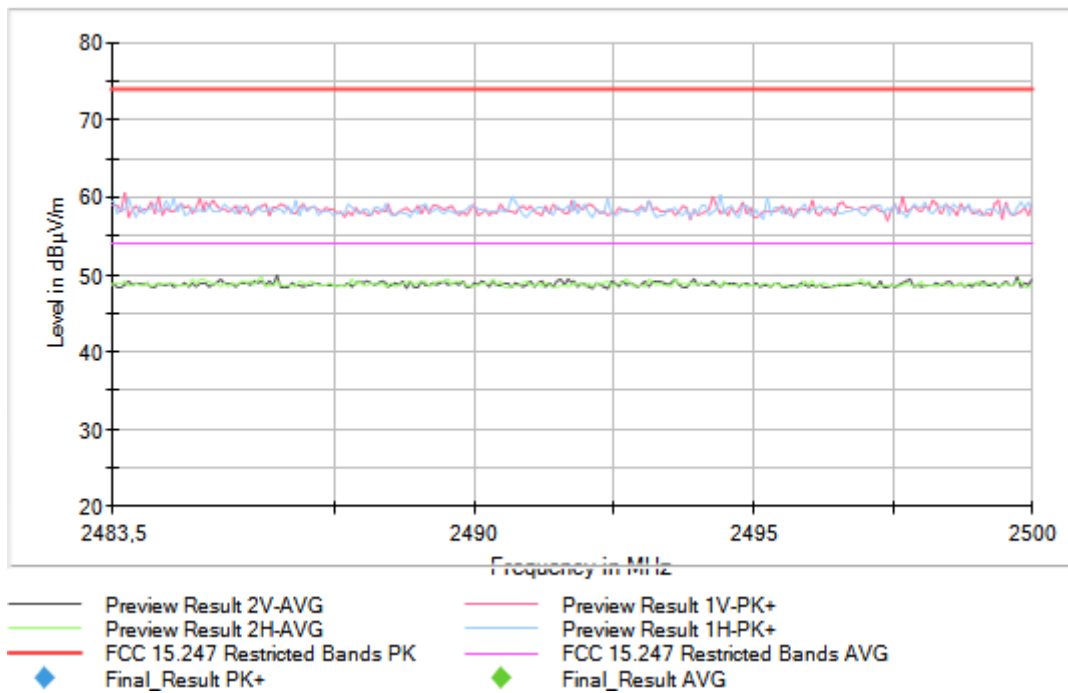


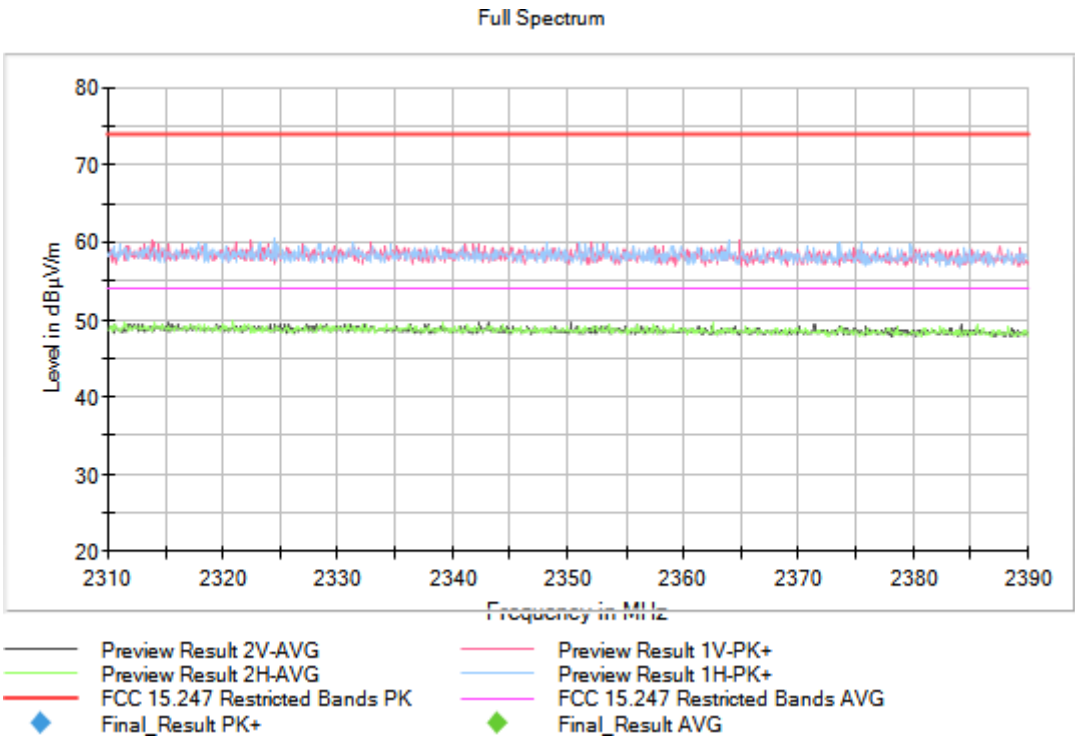
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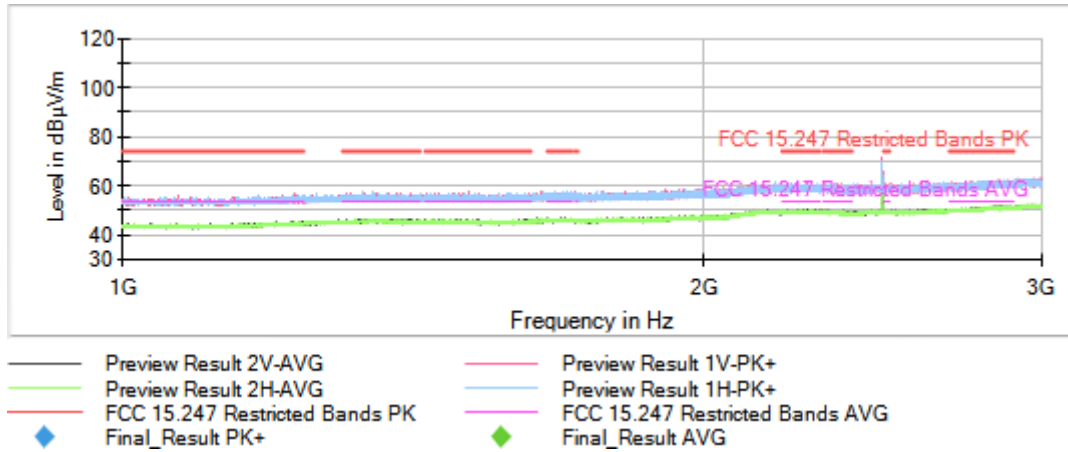
Full Spectrum



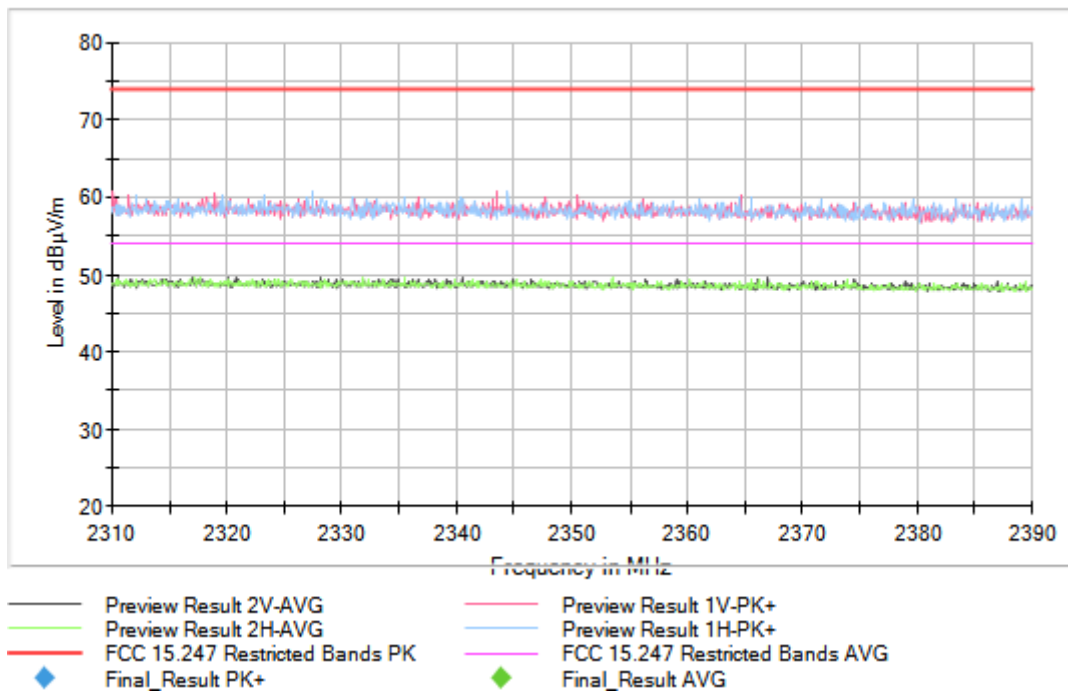


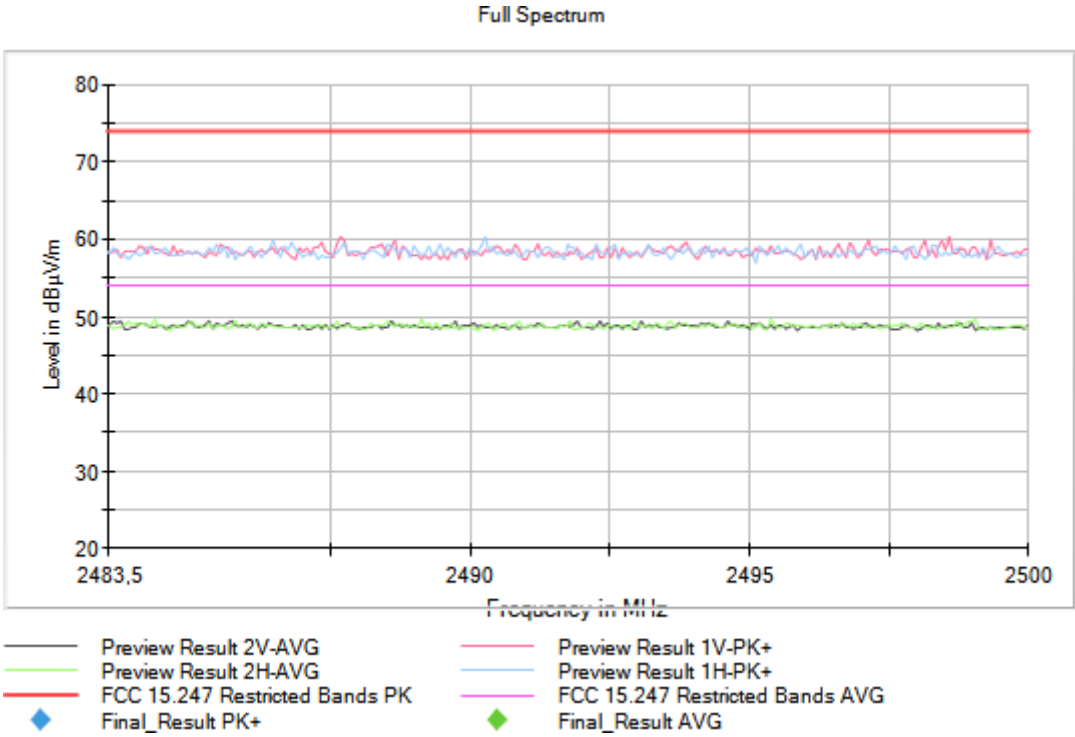
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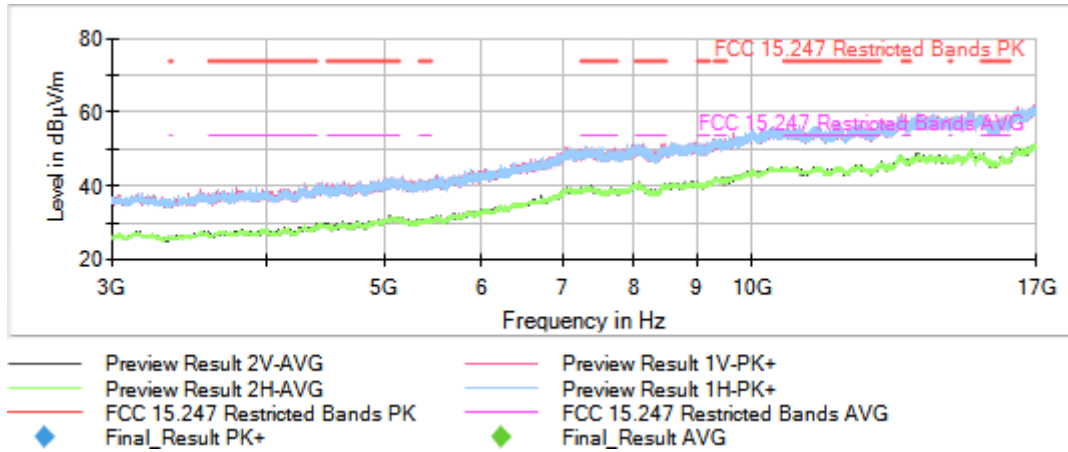
Full Spectrum





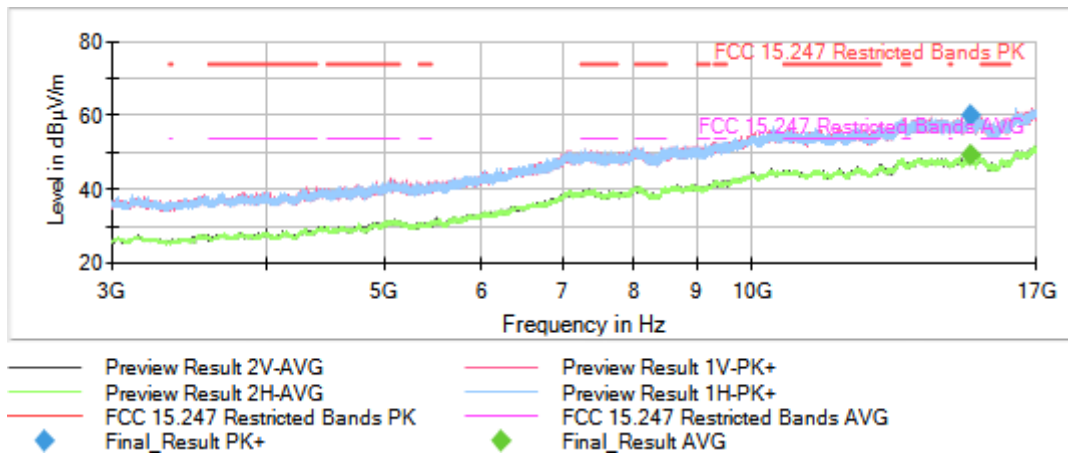
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Measurement Point = 1

Images:



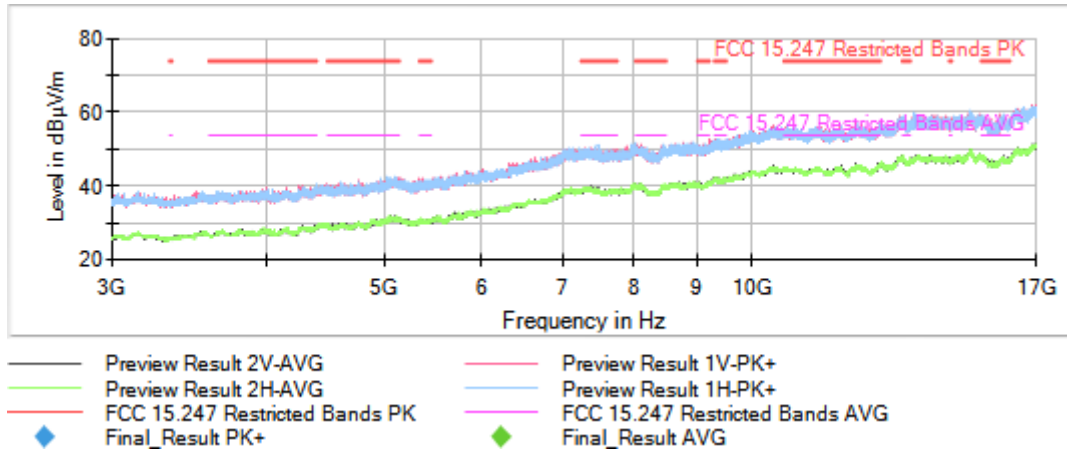
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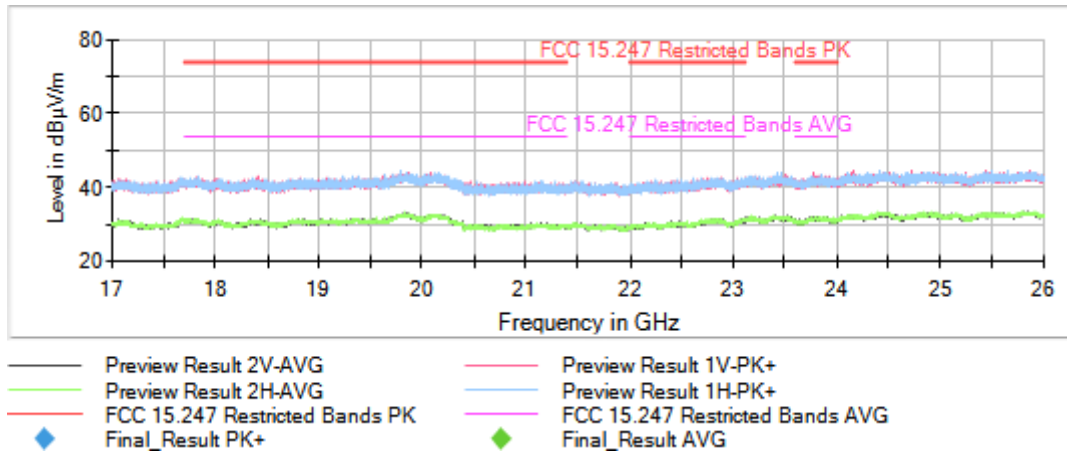
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Measurement Point = 1

Images:



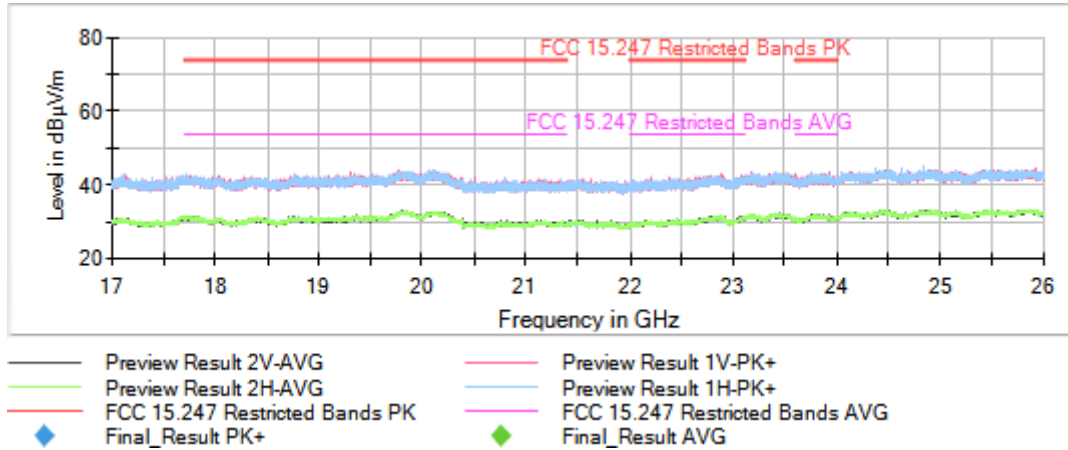
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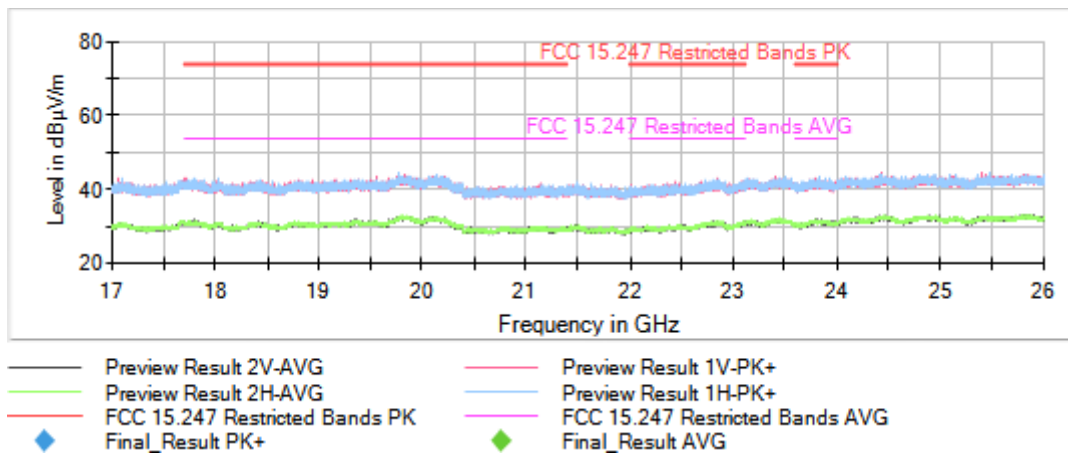
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 Measurement Point = 1

Images:



Operation Band MHz = [2400, 2483.5], Frequency MHz = 2480.00000, Equipment Type = Digital
 Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Frequency Range GHz = [17, 26],
 Measurement Point = 1

Images:



Modulation: BTLE 5.0 (GFSK 1 Mbit/s)

Results

Freq (MHz)	Freq Rng (GHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
2402.00000	[0.03, 1]	33.880	33.92	V	PK
2402.00000		33.880	31.74	V	QP
2402.00000		54.250	37.13	V	PK
2402.00000		54.250	35.38	V	QP
2402.00000		67.781	38.61	V	PK
2402.00000		67.781	37.38	V	QP
2402.00000		74.572	35.22	V	PK
2402.00000		74.572	34.06	V	QP
2402.00000		88.103	38.62	V	PK
2402.00000		88.103	38.00	V	QP
2402.00000		94.893	34.26	V	PK
2402.00000		94.893	33.48	V	QP
2440.00000	[0.03, 1]	101.683	34.16	V	PK
2440.00000		101.683	33.11	V	QP
2440.00000		33.880	33.56	V	PK
2440.00000		33.880	31.31	V	QP
2440.00000		47.460	31.01	V	PK
2440.00000		47.460	28.67	V	QP
2440.00000		54.202	34.91	V	PK
2440.00000		54.202	32.72	V	QP
2440.00000		67.781	38.15	V	PK
2440.00000		67.781	37.12	V	QP
2440.00000		74.523	30.48	V	PK
2440.00000		74.523	28.46	V	QP
2440.00000		88.103	38.68	V	PK
2440.00000		88.103	38.11	V	QP
2440.00000		94.893	34.17	V	PK
2440.00000		94.893	33.31	V	QP
2480.00000	[0.03, 1]	101.683	33.97	V	PK
2480.00000		101.683	32.98	V	QP
2480.00000		33.880	32.77	V	PK
2480.00000		33.880	30.20	V	QP
2480.00000		47.411	28.06	V	PK
2480.00000		47.411	25.13	V	QP
2480.00000		54.202	35.23	V	PK
2480.00000		54.202	33.13	V	QP
2480.00000		67.781	38.57	V	PK

Freq (MHz)	Freq Rng (GHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
2480.00000		67.781	37.60	V	QP
2480.00000		74.572	35.55	V	PK
2480.00000		74.572	34.36	V	QP
2480.00000		88.103	38.49	V	PK
2480.00000		88.103	37.87	V	QP
2480.00000		94.893	34.31	V	PK
2480.00000		94.893	33.54	V	QP

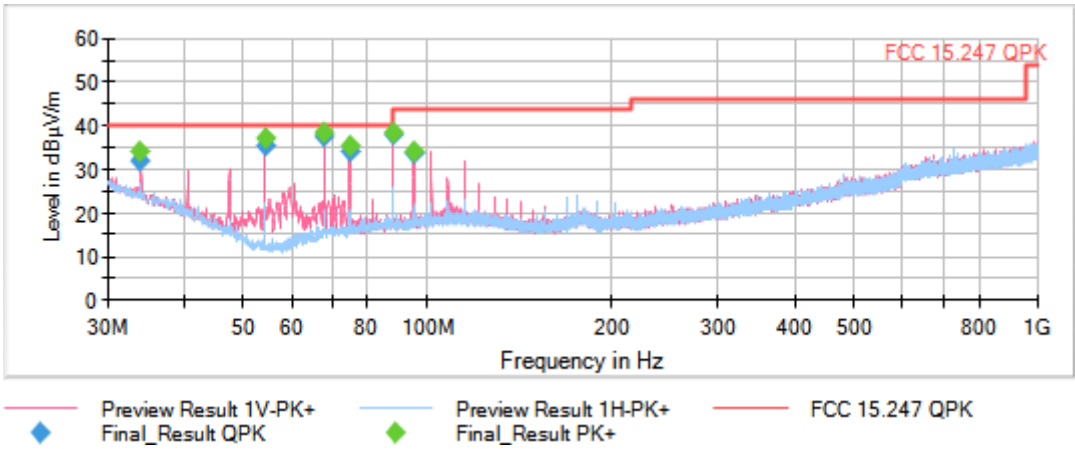
Verdict

Pass

Attachments

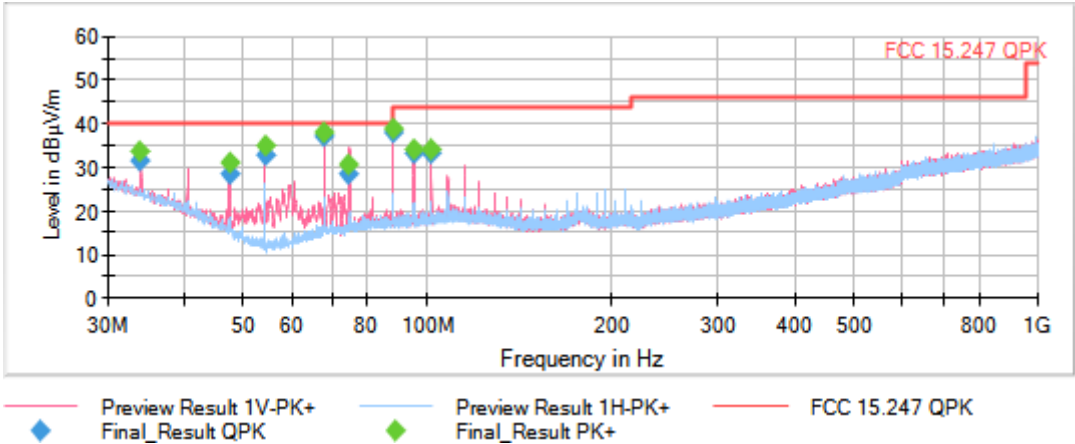
Operation Band MHz = [2400, 2483.5], Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [0.03, 1], Measurement Point = 1

Images:



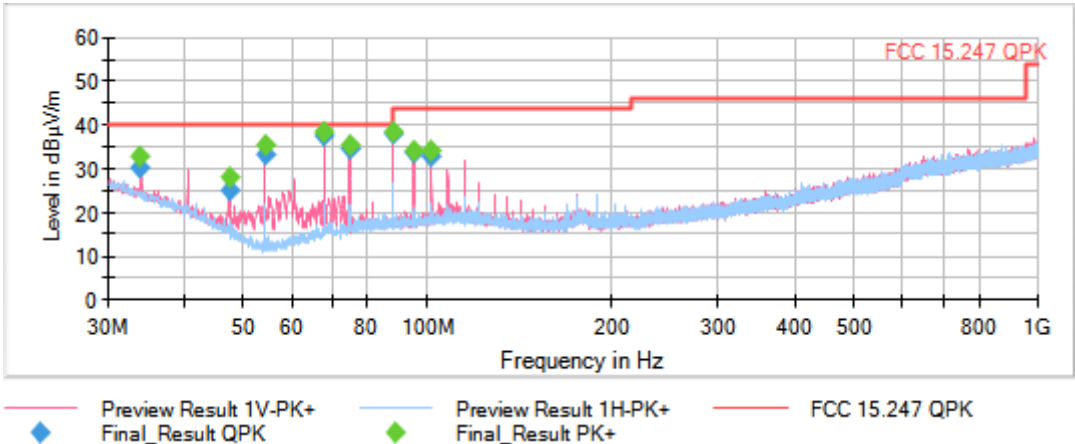
Operation Band MHz = [2400, 2483.5], Frequency MHz = 2440.00000, Equipment Type = Digital
Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [0.03, 1],
Measurement Point = 1

Images:



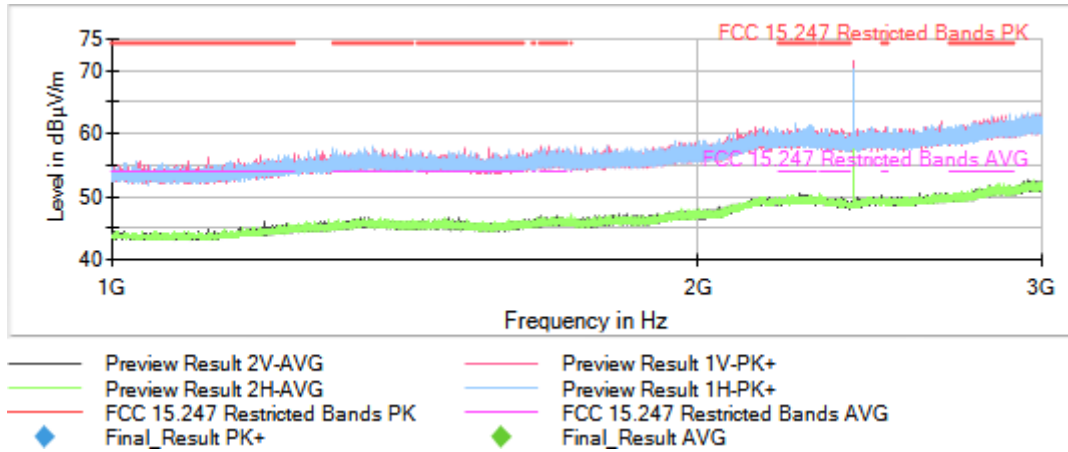
Operation Band MHz = [2400, 2483.5], Frequency MHz = 2480.00000, Equipment Type = Digital
Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [0.03, 1],
Measurement Point = 1

Images:

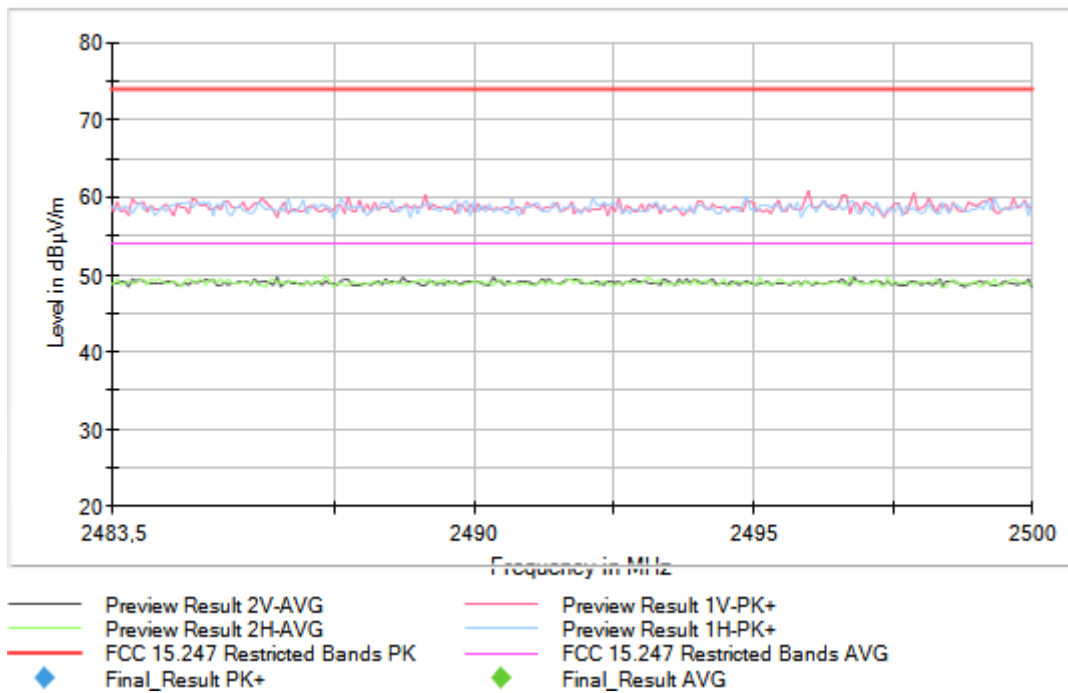


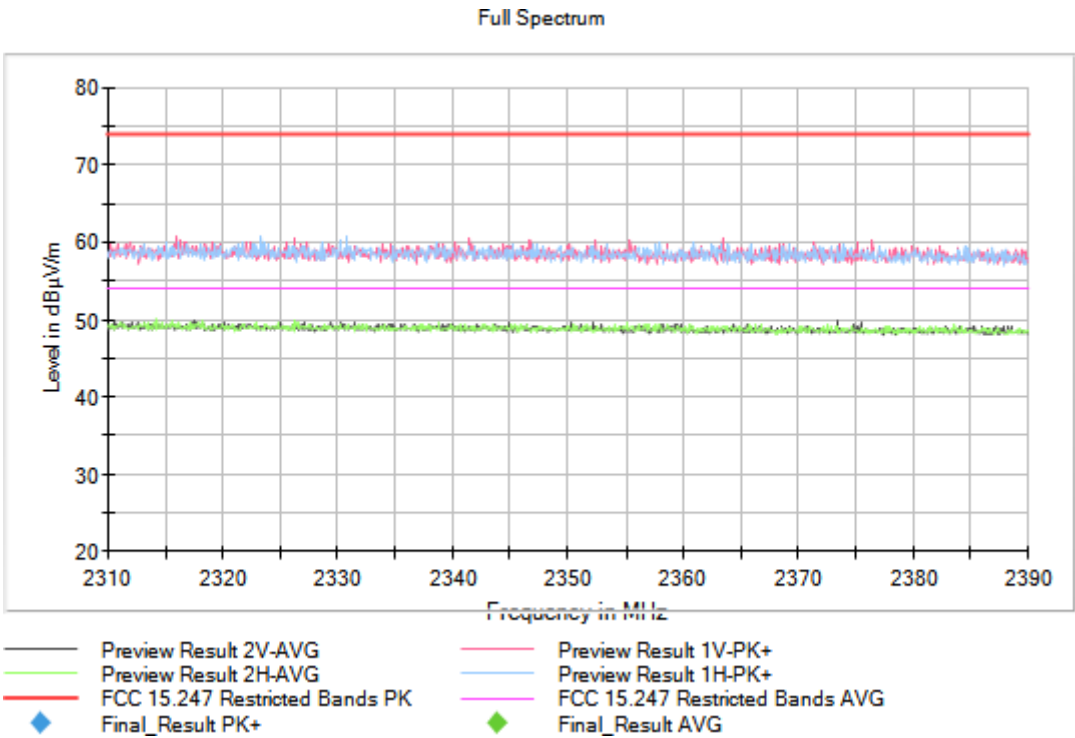
Operation Band MHz = [2400, 2483.5], Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [1, 3], Measurement Point = 1

Images:



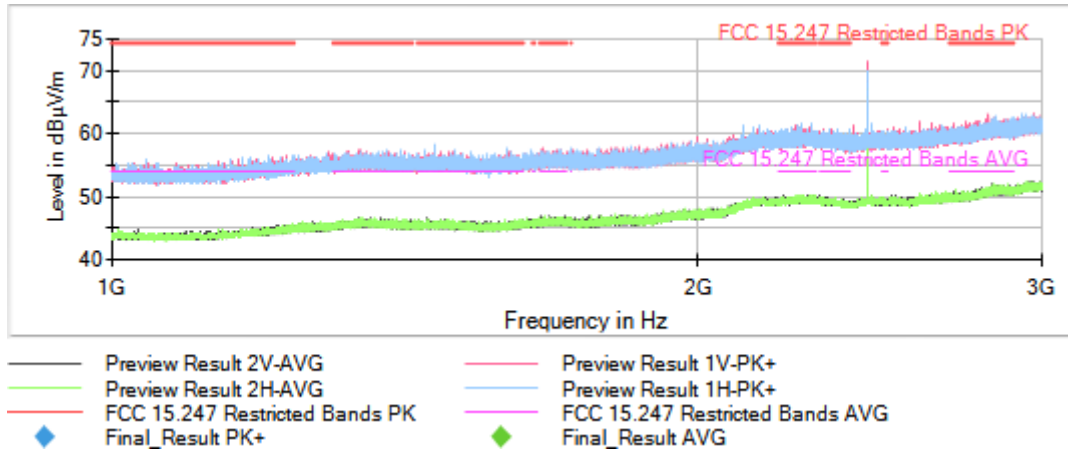
Full Spectrum



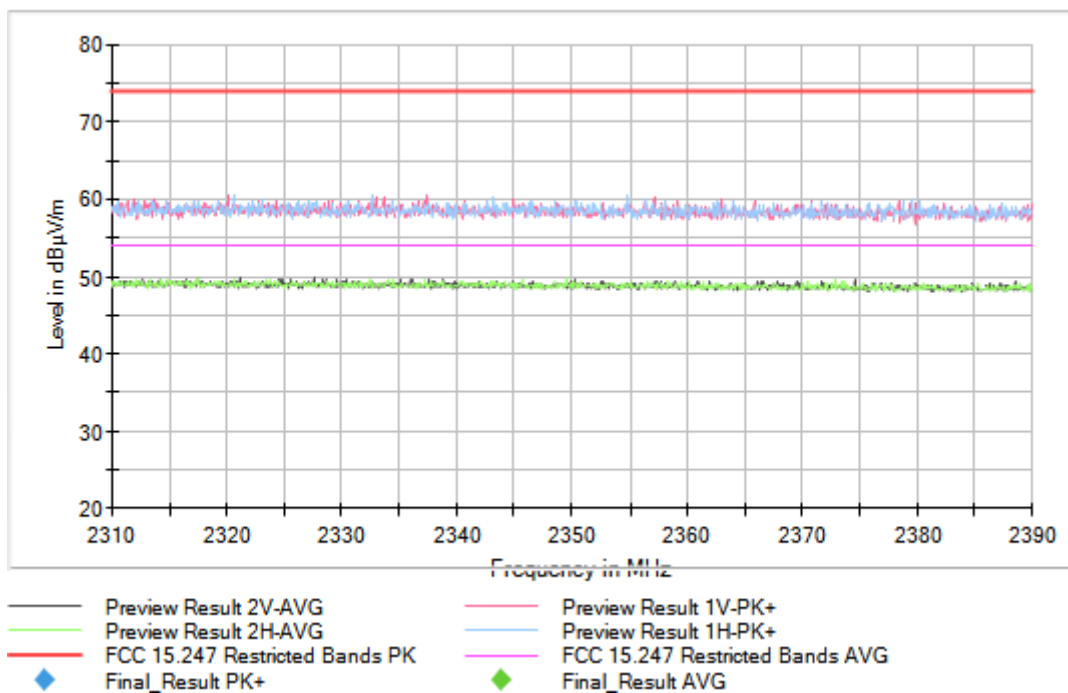


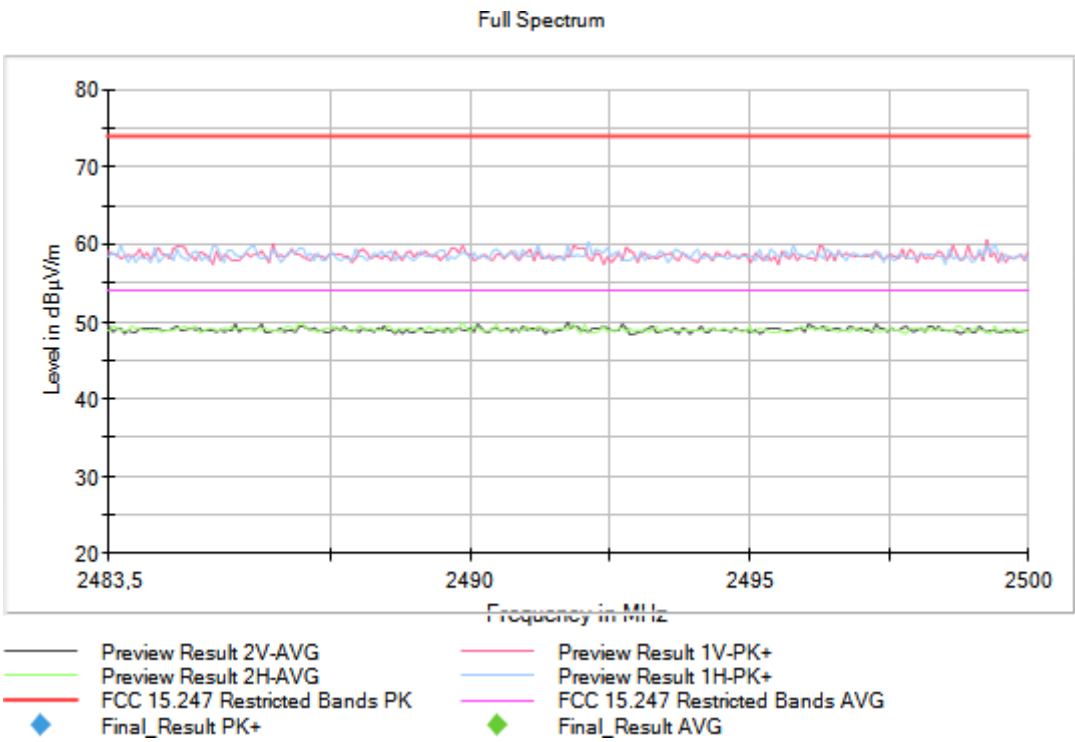
Operation Band MHz = [2400, 2483.5], Frequency MHz = 2440.00000, Equipment Type = Digital
 Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [1, 3],
 Measurement Point = 1

Images:



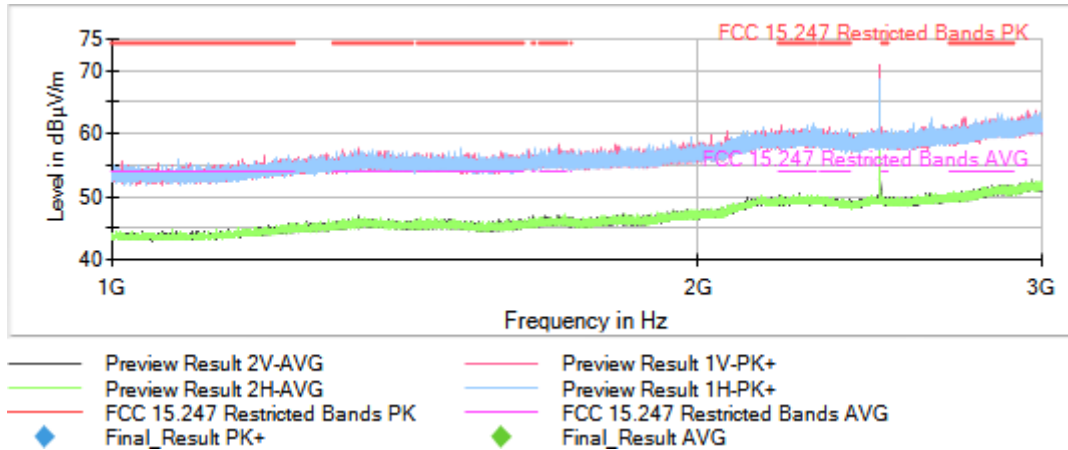
Full Spectrum



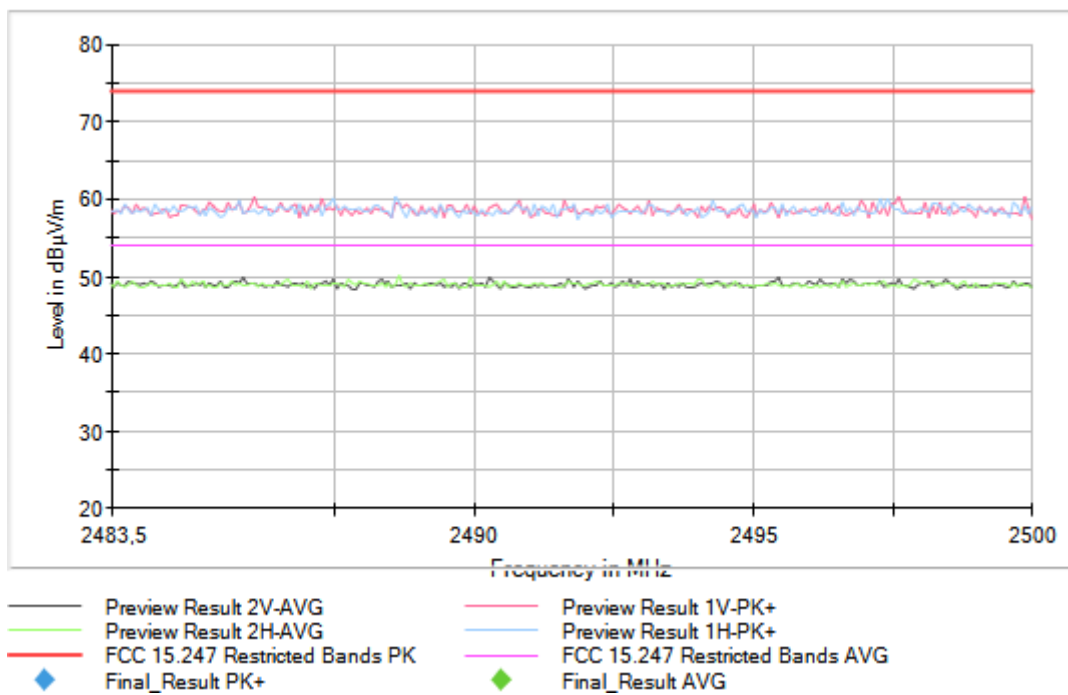


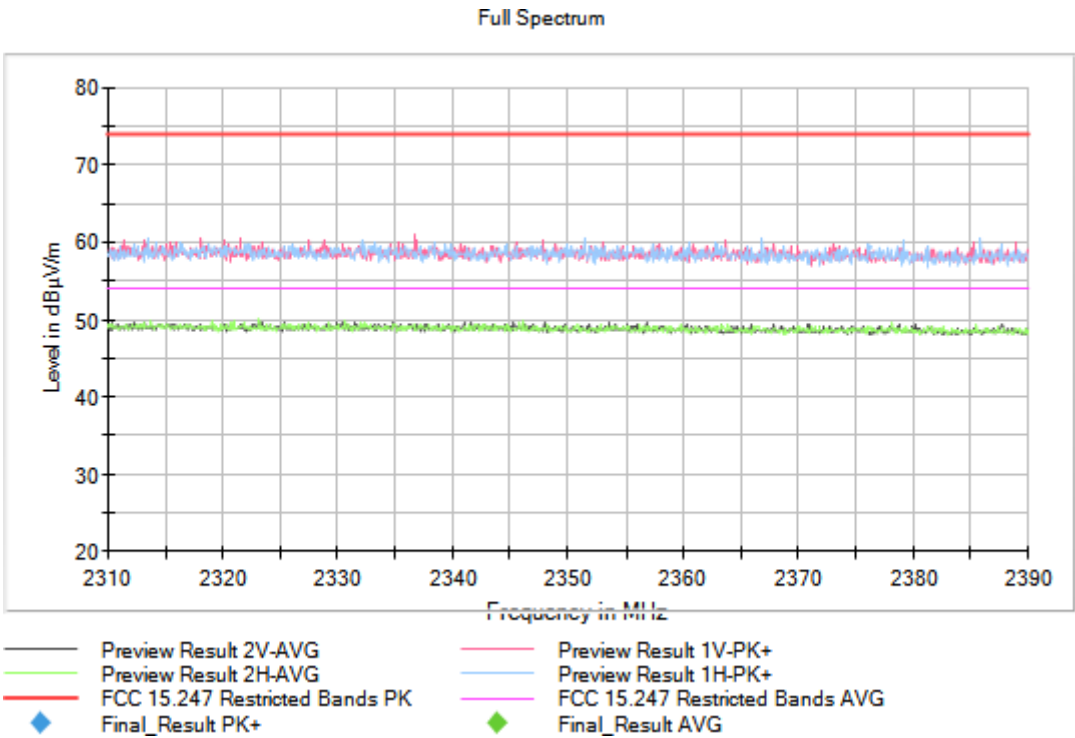
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Images:



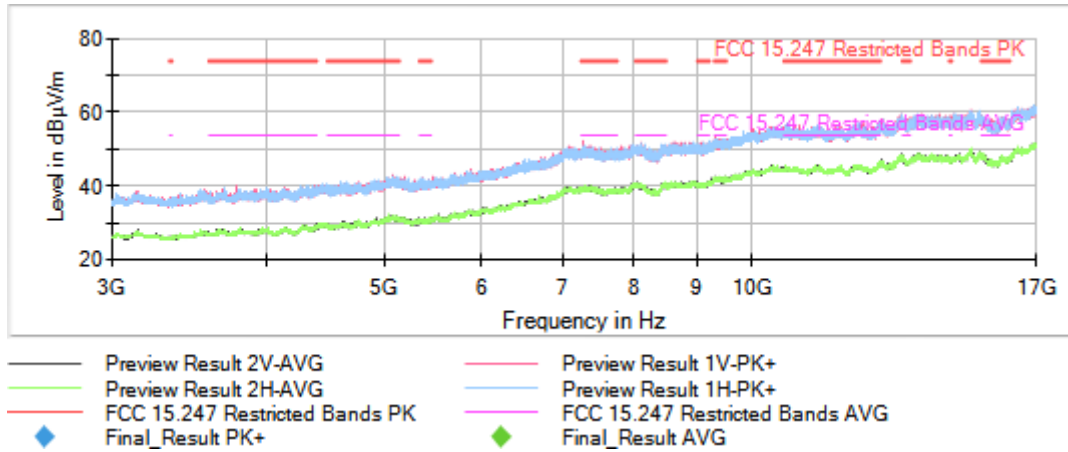
Full Spectrum





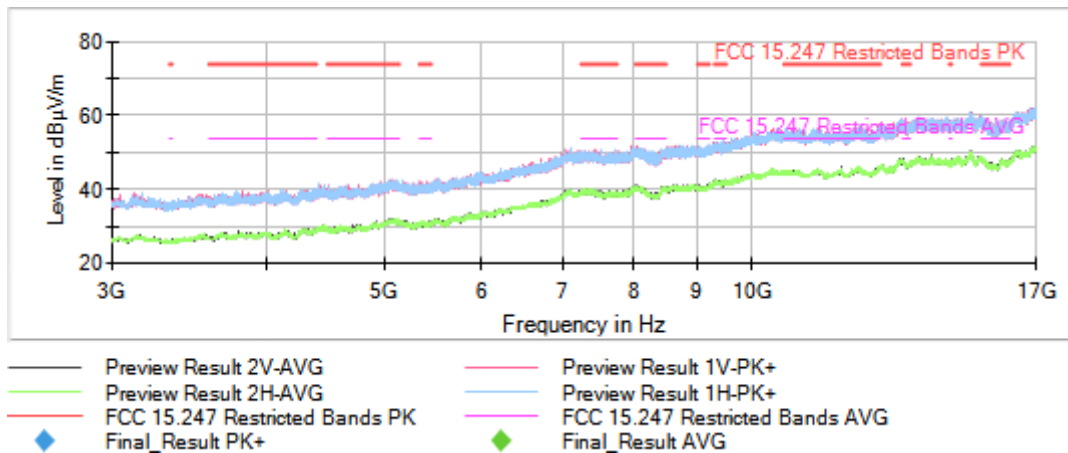
Operation Band MHz = [2400, 2483.5], Frequency MHz = 2402.00000, Equipment Type = Digital
 Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [3, 17],
 Measurement Point = 1

Images:



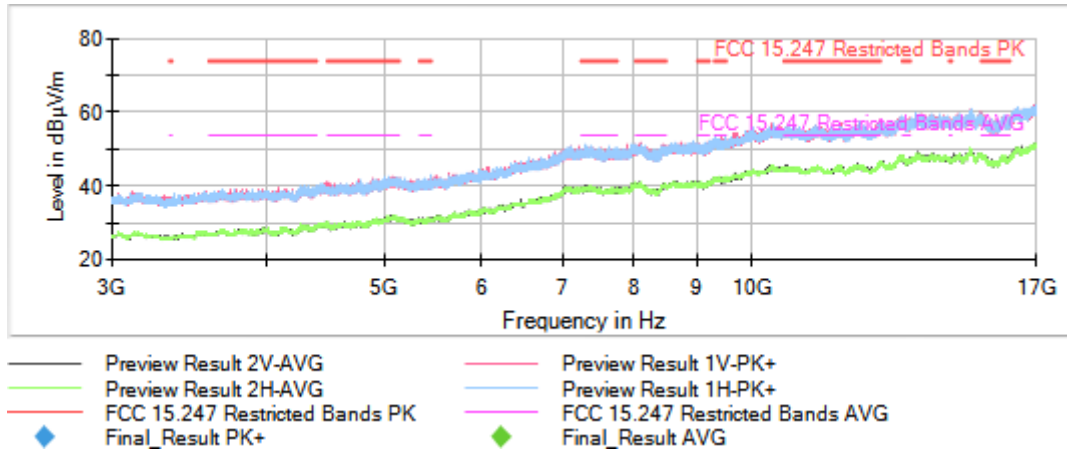
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 Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [3, 17],
 Measurement Point = 1

Images:



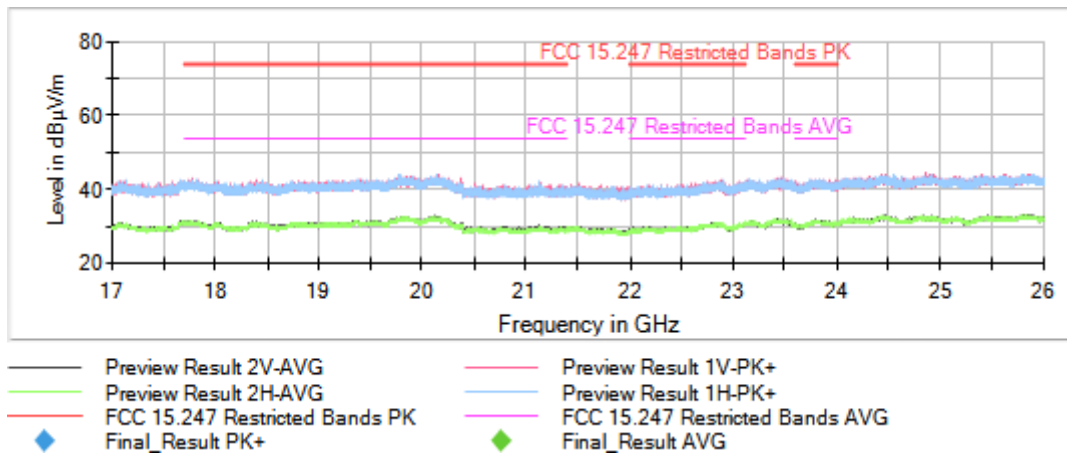
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 Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [3, 17],
 Measurement Point = 1

Images:



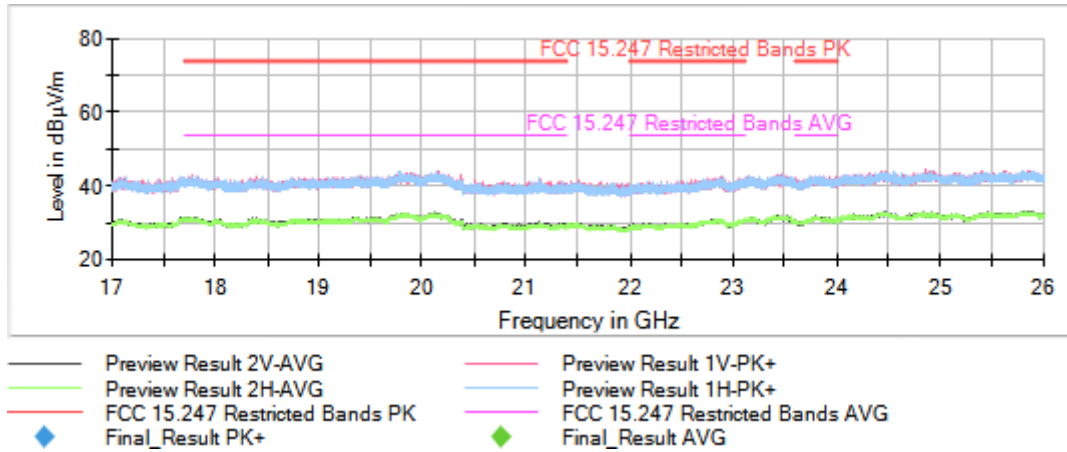
Operation Band MHz = [2400, 2483.5], Frequency MHz = 2402.00000, Equipment Type = Digital
 Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [17, 26],
 Measurement Point = 1

Images:



Operation Band MHz = [2400, 2483.5], Frequency MHz = 2440.00000, Equipment Type = Digital
 Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [17, 26],
 Measurement Point = 1

Images:



Operation Band MHz = [2400, 2483.5], Frequency MHz = 2480.00000, Equipment Type = Digital
 Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [17, 26],
 Measurement Point = 1

Images:

