

ISED CABid: ES1909

Lab. Company Number: 4621A

Test Report No:

83342RRF.002A2

Partial Test Report

USA FCC Part 15.407, 15.209

CANADA RSS-247, RSS-Gen

(*) Identification of item tested	Telematic control unit with wireless technologies, used in automotive industry.
(*) Trademark	VW AG
(*) Model and /or type reference	TKCMOD12N00B
(*) Derived model not tested	TKCMOD11000B
Other identification of the product	FCC ID = T8GCONMODMEB IC = 6434A-CONMODMEB
(*) Features	GSM, UMTS, LTE, 5G, Bluetooth EDR, BT Low-Energy, Wi-Fi, GNSS receiver HW version: X10 SW version: X067
Manufacturer	HARMAN BECKER AUTOMOTIVE SYSTEMS GMBH Becker-Goering-Str. 16 76307, Karlsbad, GERMANY
Test method requested, standard	USA FCC Part 15.407 (10-1-23) Edition: Unlicensed National Information Infrastructure (U-NII) Devices. General technical requirements. USA FCC Part 15.209 (10-1-23) Edition: Radiated emission limits; general requirements. CANADA RSS-247 Issue 3 (February 2023). CANADA RSS-Gen Issue 5 Amendment 2 (February 2021). Guidance for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices 789033 D02 General U-NII Test Procedures New Rules v02r01 dated Dec 14, 2017. ANSI C63.10-2020+Cor.1-2023+C63.10a-2024: 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  Firmado digitalmente por 53680346W JOSE MANUEL GOMEZ (C:A29507456)
Date of issue	2025-10-28
Report template No	FDT08_26 (*) "Data provided by the client"

INDEX	2
ACRONYMS	3
COMPETENCES AND GUARANTEES	3
GENERAL CONDITIONS	3
UNCERTAINTY	4
DATA PROVIDED BY THE CLIENT	4
USAGE OF SAMPLES	5
TEST SAMPLE DESCRIPTION	6
IDENTIFICATION OF THE CLIENT	9
TESTING PERIOD AND PLACE	9
DOCUMENT HISTORY	9
ENVIRONMENTAL CONDITIONS	9
REMARKS AND COMMENTS	10
TESTING VERDICTS	11
SUMMARY	11
APPENDIX A: TESTS RESULTS	13

Acronyms

Acronym ID	Acronym Description
Detector	Detector used
Freq	Frequency
Freq Rng	Frequency Range
MP	Measurement Point
Mod	Modulation
Operation Band	Operation Band
Pol	Polarization
Port	Active Port
RU	Resource Unit
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.

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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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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.
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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 40 GHz is:
Measurement uncertainty $\leq \pm 5,55$ 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 Telematics control unit with wireless technologies, used in automotive, equipped with one modem, OEM. This unit was designed for automotive usage and contains the following features: GSM, UMTS, LTE, 5G, GNSS, Wifi (a, b, g, n, ac,ax) and Bluetooth EDR.
3. Derived model not tested. These models have been declared by the supplier of the sample as being the same as the model under test.

HARMAN Becker Automotive Systems GmbH

Becker-Goering-Str. 16
76307 Karlsbad, Germany



Date: August 05th, 2025

To whom it may concern,

We,

HARMAN BECKER AUTOMOTIVE SYSTEMS GMBH
Becker-Goering-Str. 16; 76307 Karlsbad, Germany,

Hereby declare that the products listed below:

Type of equipment: Telematic control unit with wireless technologies used in automotive industry.

Brand name: VW AG

Model names: TKCMOD12N00B and TKCMOD11000B

are part of the same family and all the models are equal. The model TKCMOD12N00B is the most populated variant and is the one that has been tested. The model TKCMOD11000B is the same as TKCMOD12N00B but it has a different name because the cellular module is disabled (although is installed in the device).

The rest of interfaces (BT, WiFi, GNSS) are equal in all the variants.

In the table below you can find the different names based on the specific country target:

Country	Product Name	Part number	Variant	GNSS	Bluetooth WLAN	NAD (Activate)	WLANp
NAR (online variant)	TKCMOD12N00B	14A.035.741	V119	x	x	x	-
Rest of the world (offline variant)	TKCMOD11000B	14C.035.741	V156	x	x	-	-

As mentioned above, TKCMOD12N00B is the variant that has been tested and results are applicable to the rest of the variants.

Sincerely,

i.v. 

By: Iulian-George Stoica
Title: Principal Engineer, Quality Engineering
E-mail: iulian.stoica@harman.com
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I. V. 

By: Banica Alin
Title: Regulatory Product Compliance Expert
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Company: Harman Becker Automotive Systems GmbH

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. The laboratory is not responsible for such information and it is not covered by accreditation.

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	83342B_103.1	Quad RMC Z to Single Fakra Cable			2025-05-22	Element Under Test
S/01	83342B_28.1	Shark Antenna	3WA.035.507.G	29204	2025-05-22	Element Under Test
S/01	83342B_3.1	TCU	TKCMOD12N00B	354205700038273	2025-05-22	Element Under Test
S/01	83342B_31.1	Yellow Box	USB to 4XUART	USB44HS083900030	2025-05-22	Element Under Test
S/01	83342B_39.1	Harness			2025-05-22	Element Under Test
S/01	83342B_53.1	Antenna	3J0.035.534	27221	2025-05-22	Element Under Test
S/01	83342B_69.1	Antenna	4N0.035.500	29280	2025-05-22	Element Under Test
S/01	83342B_72.1	Antenna	4N0.035.500	29272	2025-05-22	Element Under Test
S/01	83342B_76.1	Antenna	4N0.035.500	29382	2025-05-22	Element Under Test
S/01	83342B_84.1	USB Cable			2025-05-22	Element Under Test
S/01	83342B_109.1	Ethernet Cable			2025-05-22	Auxiliary Element
S/01	83342B_29.1	Yellow Box	USB to 4XUART	USB45HS083900039	2025-05-22	Auxiliary Element
S/01	83342B_42.1	Harness			2025-05-22	Auxiliary Element
S/01	83342B_49.1	Module Circuit Board		4585835	2025-05-22	Auxiliary Element
S/01	83342B_7.1	TCU	TKCMOD12E00B	352425160124742	2025-05-22	Auxiliary Element
S/01	83342B_87.1	OABR Adapter Cable			2025-05-22	Auxiliary Element

Notes referenced to samples during the project:

Id	Type
S/01	Sample used for Radiated testing. The antenna configuration used has been selected after to determine the worst case performing a RSE spotcheck with the mention antennas and these ones: 5B4.035.510 (BT/WLAN-Antenne 1), 5B4.035.510 (BT/WLAN-Antenne 2), 3WA.035.507.G (BT/WLAN-Antenne 3)



Test sample description

Ports..... :	Port name and description		Cable				
			Specified length [m]	Attached during test	Shielded		
	RF connector – code		-	[]	[X]		
	RF connector – code		-	[X]	[X]		
	RF connector – code		-	[X]	[]		
Supplementary information to the ports..... :	-						
Rated power supply :	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	[]	AC:	[]	[]	[]	[]	[]
	[X]	DC: 12V car battery (4.8 VDC inside of TCU)					
Rated Power..... :	12 V DC						
Clock frequencies..... :	-						
Other parameters :	See Technical description						
Software version..... :	X067						
Hardware version :	X10						
Dimensions in cm (W x H x D) ... :	-						
Mounting position :	[]	Table top equipment					
	[]	Wall/Ceiling mounted equipment					
	[]	Floor standing equipment					
	[]	Hand-held equipment					
	[X]	Other: automotive telematics control unit					
Modules/parts..... :	Module/parts of test item			Type		Manufacturer	
	-			-		-	
Accessories (not part of the test item) :	Description			Type		Manufacturer	
	Cable Harness			-		-	
	2G/3G/4G/5G Antenna			-		-	
	eCall button/LED			-		-	
	SOS Loudspeaker			-		-	
	BT/WIFI antenna			-		-	
	GNSS antenna			-		-	
Documents as provided by the applicant :	Description			File name		Issue date	
	Technical Description			-		-	

Identification of the client

HARMAN BECKER AUTOMOTIVE SYSTEMS GMBH
BECKER-GOERING-STR. 16; 76307, KARLSBAD, GERMANY

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U. Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 6 · 29590 Campanillas
Date (start)	2025-06-03
Date (finish)	2025-06-10

Document history

Report number	Date	Description
83342RRF.002	2025-09-18	First release.
83342RRF.002A1	2025-10-10	Second release. This report is modified to include one test case. This modification test report cancels and replaces the test report 83342RRF.002
83342RRF.002A2	2025-10-28	Second release. This report is modified to typos. This modification test report cancels and replaces the test report 83342RRF.002A1.

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: Miguel Manuel López Guzmán.

Used instrumentation:

Control No.	Equipment	Model	Manufacturer	Next Calibration
09762	DC POWER SUPPLY 200V/25A	EA-PSI-9200-25-DT	ELEKTRO-AUTOMATIC	N/A
07759	DIGITAL MULTIMETER	175	FLUKE	2025-11-04
08866	EMI TEST RECEIVER 2Hz-44GHz	ESW44	ROHDE AND SCHWARZ	2026-06-12
06132	ETHERNET TEMPERATURE AND HUMIDITY LOGGER	HWg-STE	HW GROUP	2026-04-28
06126	ETHERNET TEMPERATURE AND HUMIDITY LOGGER	HWg-STE	HW GROUP	2026-04-22
06092	FUENTE ALIMENTACION DC 30 V / 5 A	U8002A	KEYSIGHT TECHNOLOGIES	N/A
05922	HIGH PASS FILTER 1.1-3GHz	WHK10-990-1100-8000-40SS	WAINWRIGHT	2026-01-15
09029	HIGH PASS FILTER 17-40 GHz	STHP-17-40G-92	TEMSTRON/TEM WELL	2026-04-02
08831	HIGH PASS FILTER 3 GHz	WHKX10-2700-3000-18000-40SS	WAINWRIGHT	2025-09-25
04612	HORN ANTENNA 1-18GHz	BBHA 9120 D	SCHWARZBECK MESS-ELEKTRONIK	2027-10-15
04657	HORN ANTENNA 18-40GHz	BBHA 9170	SCHWARZBECK	2026-06-12
05641	HYBRID BILOG ANTENNA 30MHz-6GHz	3142E	ETS LINDGREN	2027-10-23
03541	HYBRID BILOG ANTENNA 30MHz-6GHz	JB6	SUNOL SCIENCES CORPORATION	2028-04-17
08856	PRE-AMPLIFIER G>30dB 18-40GHz	BLMA 1840-4A	BONN ELEKTRONIK	2025-02-27
09360	PRE-AMPLIFIER G>40dB 1-18 GHz	BLMA 0118-1M	BONN ELEKTRONIK	2025-08-05
08788	PREAMPLIFIER 30dB 500MHz-18GHz	BBV 9718 C	SCHWARZBECK	2026-02-18
07414	PREAMPLIFIER BOX	-	INTERNO	2026-01-13
06064	SEMIANECHOIC ABSORBER LINED CHAMBER	SAC-3	Frankonia	N/A
06329	SHIELDED ROOM	--	FRANKONIA	N/A
04848	SOFTWARE FOR EMC/RF TESTING	EMC32	ROHDE AND SCHWARZ	N/A

Testing verdicts

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

Summary

Common requirements for all bands

FCC PART 15 PARAGRAPH / RSS-247		
Requirement – Test case	Verdict	Remark
Duty Cycle	N/A	(1)
99% Occupied Bandwidth	N/A	(1)
26 dB Emission Bandwidth (EBW)	N/A	(1)
<u>Supplementary information and remarks:</u>		
(1) Only radiated test has been requested		

U-NII-1 Band: 5.15 - 5.25 GHz

FCC PART 15 PARAGRAPH / RSS-247		
Requirement – Test case	Verdict	Remark
FCC 15.407 (a)(1)(iv) Transmitter Maximum conducted Output Power	N/A	(1)
RSS-247 6.2.1.1 Transmitter Maximum Equivalent Isotropically Radiated Power EIRP	P	(1)
FCC 15.407 (a)(1)(iv) Transmitter Maximum Power Spectral Density	N/A	(1)
RSS-247 6.2.1.1 Transmitter EIRP Spectral Density	N/A	(1)
FCC 15.407 (b)(1)(6) / RSS-247 6.2.1.2 Transmitter Out of Band Radiated Emissions	P	(1)
FCC 15.407 (b)(1) / RSS-247 6.2.1.2 Transmitter Band Edge Radiated Emissions	P	(1)
<u>Supplementary information and remarks:</u>		
(1) Only radiated test and EIRP have been requested		

U-NII-3: 5.725 GHz – 5.85 GHz Band:

FCC PART 15 PARAGRAPH			
Requirement – Test case		Verdict	Remark
FCC 15.407 (e) / RSS-247 6.2.4.2	6 dB Bandwidth	N/A	(1)
FCC 15.407 (a)(3)(i) / RSS-247 6.2.4.2	Transmitter Maximum Conducted Output Power	N/A	(1)
FCC 15.407 (a)(3)(i) / RSS-247 6.2.4.2	Transmitter Maximum Power Spectral Density	N/A	(1)
FCC 15.407 (b)(4) / RSS-247 6.2.4.3	Transmitter Out of Band Radiated Emissions	P	(1)
FCC 15.407 (b)(4) / RSS-247 6.2.4.3	Transmitter Band Edge Radiated Emissions	P	(1)
<u>Supplementary information and remarks:</u> (1) Only radiated test and EIRP have been requested			

Appendix A: Tests results

TEST CONDITIONS	15
TEST CASES DETAILS	21
FCC 47 CFR PART 15.407 / RSS-247 / RSS-248	21
<i>RSS-247 6.2.1.1 / FCC 15.407 (a)(1)(iv) Transmitter Maximum Conducted Output Power and EIRP</i>	<i>21</i>
<i>RSS-247 6.2.1.2 / FCC 15.407 (b) (1) (6) [Rse] Transmitter Out of Band Radiated Emissions For transmitters operating in the 5.15–5.25 GHz.....</i>	<i>27</i>
<i>RSS-247 6.2.4.2 / FCC 15.407 (b) (4) (6) [Rse] Transmitter Out of Band Radiated Emissions For transmitters operating solely in the 5.725-5.850 GHz band</i>	<i>156</i>

TEST CONDITIONS

(*): Data provided by the client.

POWER SUPPLY (*):

Vnominal: 12 Vdc.
Type of Power Supply: Car battery.

ANTENNA (*):

Technologies	Antenna Gain	Type of Antenna
WiFi 5 GHz	+7.52 dBi	Dedicated External

TEST FREQUENCIES (*):

UNII-1:

Technology Tested:	WLAN (IEEE 802.11 a,n,ac,ax) 2x2 / U-NII-1	
	802.11a OFDM 6 Mbit/s (MIMO 2x2)	
	802.11 n HT20: MCS0 to MCS23 (MIMO 2x2)	
	802.11 n HT40: MCS0 to MCS23 (MIMO 2x2)	
	802.11 ac VHT20: MCS0 to MCS9 (MIMO 2x2)	
	802.11 ac VHT40: MCS0 to MCS9 (MIMO 2x2)	
	802.11 ac VHT80: MCS0 to MCS9 (MIMO 2x2)	
	802.11 ax HE20: MCS0 to MCS11 (MIMO 2x2) – SU/RU	
	802.11 ax HE40: MCS0 to MCS11 (MIMO 2x2) – SU/RU	
	802.11 ax HE80: MCS0 to MCS11 (MIMO 2x2) – SU/RU	
Setting of cores / ports:	2+3	
Beamforming:	No.	
Frequency Range:	5150 MHz to 5250 MHz	
Channel Spacing:	20 MHz	
Transmit Channels	Channel	Channel Frequency (MHz)
	Low: 36	5180
	Middle: 40	5200
	High: 48	5240
Channel Spacing:	40 MHz	
Transmit Channels	Channel	Channel Frequency (MHz)
	Low: 38	5190
	High: 46	5230
Channel Spacing:	80 MHz	
Transmit Channels	Middle: 42	5210

UNII-3:

Technology Tested:	WLAN (IEEE 802.11 a,n,ac,ax) 2x2 / U-NII-3	
	802.11a OFDM 6 Mbit/s (MIMO 2x2)	
	802.11 n HT20: MCS0 to MCS23 (MIMO 2x2)	
	802.11 n HT40: MCS0 to MCS23 (MIMO 2x2)	
	802.11 ac VHT20: MCS0 to MCS9 (MIMO 2x2)	
	802.11 ac VHT40: MCS0 to MCS9 (MIMO 2x2)	
	802.11 ac VHT80: MCS0 to MCS9 (MIMO 2x2)	
	802.11 ax HE20: MCS0 to MCS11 (MIMO 2x2) – SU/RU	
	802.11 ax HE40: MCS0 to MCS11 (MIMO 2x2) – SU/RU	
	802.11 ax HE80: MCS0 to MCS11 (MIMO 2x2) – SU/RU	
Setting of cores / ports:	2+3	
Beamforming:	No.	
	5725 MHz to 5850 MHz	
Power Settings:	13 dBm	
Operating Channel Bandwidth:	20 MHz	
Transmission Channels:	Channel	Channel Frequency (MHz)
	Low (149)	5745
	Middle (157)	5785
	High (165)	5825
Operating Channel Bandwidth:	40 MHz	
Transmission Channels:	Channel	Channel Frequency (MHz)
	Low (151)	5755
	High (159)	5795
Operating Channel Bandwidth:	80 MHz	
Transmission Channels:	Single (155)	5775

POWER ADJUSTMENT for Canada (*):

Modes:	UNII-1		UNII-3	
	SISO Port 3:	MIMO (Port 3 + Port 2):	SISO Port 3:	MIMO (Port 3 + Port 2):
A20	11	7	15	15
N20	11	7	15	15
N40	11	8	15	15
AC20	11	7	15	15
AC40	11	8	15	15
AC80	11	8	15	15
AX20 SU	11	6	15	15
AX20 RU26	11	5	15	15
AX40 SU	11	6	15	15
AX40 RU26	11	8	15	15
AX80 SU	11	6	15	15
AX80 RU26	11	6	15	15

The test case RSS-247 6.2.1.1 Transmitter Maximum Equivalent Isotropically Radiated Power EIRP was evaluated with the power adjustment for Canada.

POWER ADJUSTMENT for USA (*):

Modes:	Power Adjustment SISO Port 3:	Power Adjustment MIMO (Port 3 + Port 2):
A20	15	15
N20	15	15
N40	15	15
AC20	15	15
AC40	15	15
AC80	15	15
AX20 SU	15	15
AX20 RU26	15	15
AX40 SU	15	15
AX40 RU26	15	15
AX80 SU	15	15
AX80 RU26	15	15

The radiated test has been evaluated with the power adjustment for USA as a worst case.

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.

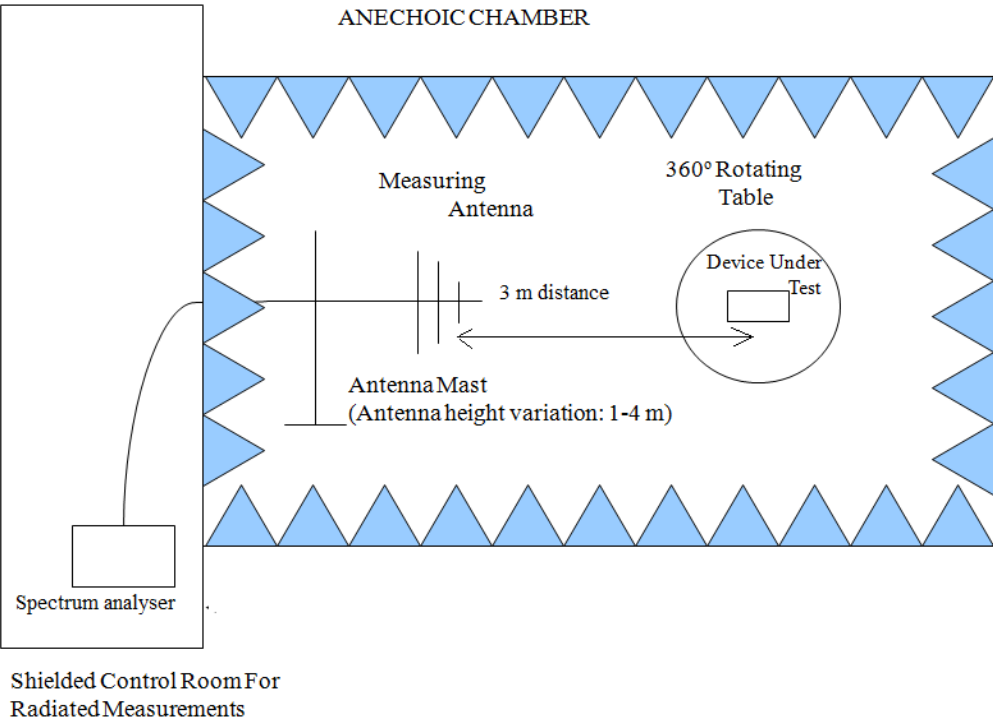
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height (Bilog antenna and Double ridge horn antenna) was varied from 1 to 4 meters to find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

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

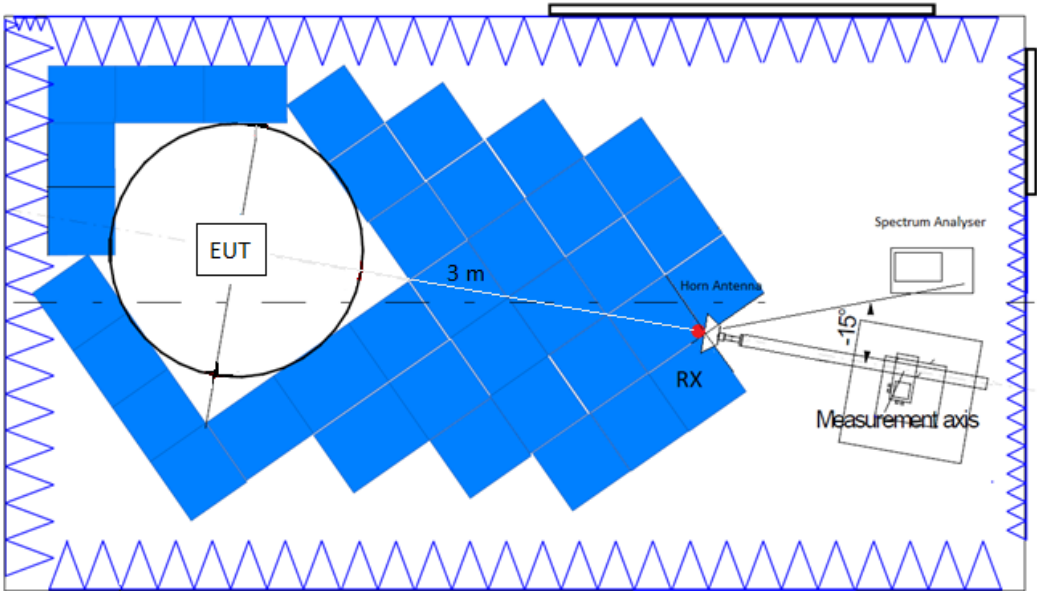
The final measured value, for the given emission, in the tables below incorporates the calibrated antenna factor and cable loss.

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.

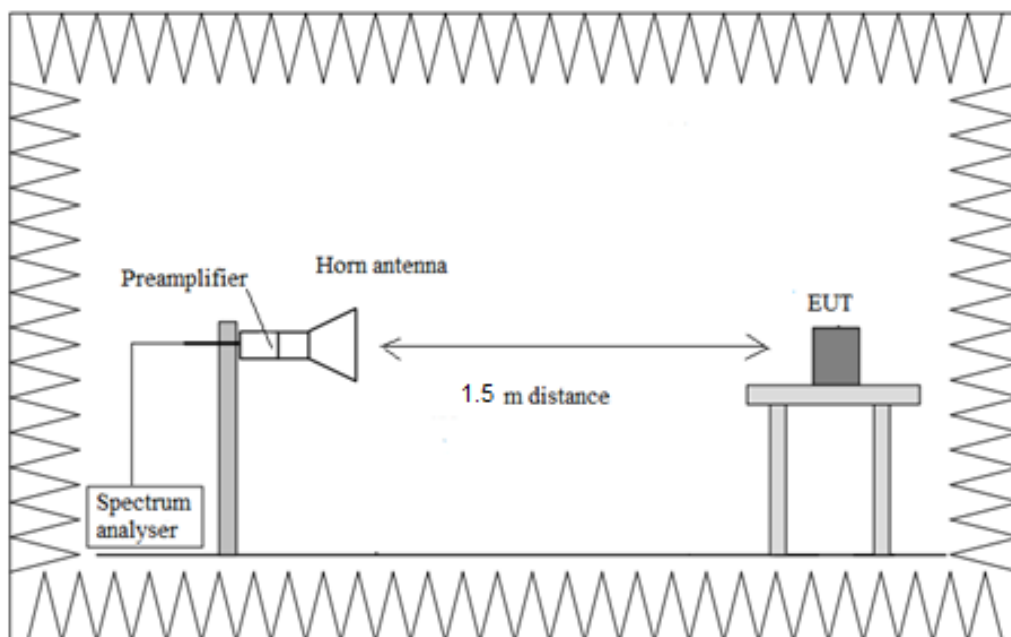
Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1 GHz to 17 GHz:



Radiated measurements setup $f > 17$ GHz:



TEST CASES DETAILS

FCC 47 CFR Part 15.407 / RSS-247 / RSS-248

RSS-247 6.2.1.1 / FCC 15.407 (a)(1)(iv) Transmitter Maximum Conducted Output Power and EIRP

Limit:

FCC 15.407:

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

If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RSS-247:

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed the lesser of:
30 mW; or $1.76 + 10 \log_{10} B$, dBm.

The maximum conducted output power was measured using the method according to clause E) 3) b) (Method PM-G) of 789033 D02 General UNII Test Procedures New Rules v02r01.

The e.i.r.p. levels are calculated by adding the declared maximum antenna gain (dBi).

Results

SISO (Port 3) (worst-case)

Modulation: 802.11a (OFDM 6 Mbit/s)

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3	5180.00000	No	12.63	5.11
		5220.00000		12.97	5.45
		5240.00000		12.95	5.43

Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3	5180.00000	No	12.60	5.08
		5220.00000		12.94	5.42
		5240.00000		12.95	5.43

Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3	5190.00000	No	11.64	4.12
		5230.00000		12.15	4.63

Modulation: 802.11ac VHT20 (OFDM MCS0)

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3	5180.00000	No	12.60	5.08
		5220.00000		12.93	5.41
		5240.00000		12.94	5.42

Modulation: 802.11ac VHT40 (OFDM MCS0)

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3	5190.00000	No	11.60	4.08
		5230.00000		12.13	4.61

Modulation: 802.11ac VHT80 (OFDM MCS0)

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3	5210.00000	No	12.02	4.50

Modulation: 802.11ax HE20 (OFDMA MCS0) SU

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3	5180.00000	No	10.37	2.85
		5220.00000		11.05	3.53
		5240.00000		11.15	3.63

Modulation: 802.11ax HE20 (OFDMA MCS0) RU26

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3	5180.00000	No	9.93	2.41
		5220.00000		11.46	3.94
		5240.00000		10.89	3.37

Offset RU used in each channel:

Operation Band (MHz)	Channels	Offset
[5150, 5250]	Lowest (5180MHz):	0
	Middle (5220MHz):	3
	Highest (5240MHz):	8
[5725, 5850]	Lowest (5745MHz):	0
	Middle (5785MHz):	3
	Highest (5825MHz):	8

Modulation: 802.11ax HE40 (OFDMA MCS0) SU

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3	5190.00000	No	10.69	3.17
		5230.00000		11.13	3.61

Modulation: 802.11ax HE40 (OFDMA MCS0) RU26

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3	5190.00000	No	9.03	1.51
		5230.00000		9.91	2.39

Offset RU used in each channel:

Operation Band (MHz)	Channels	Offset
[5150, 5250]	Lowest (5190MHz):	0
	Highest (5230MHz):	17
[5725, 5850]	Lowest (5755MHz):	0
	Highest (5795MHz):	17

Modulation: 802.11ax HE80 (OFDMA MCS0) SU

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3	5210.00000	No	10.95	3.43

Modulation: 802.11ax HE80 (OFDMA MCS0) RU26

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3	5210.00000	No	8.91	1.39

Offset RU used in each channel:

Operation Band (MHz)	Channel	Offset
[5150, 5250]	Single (5190MHz):	18
[5725, 5850]	Single (5755MHz):	18

Verdict

Pass

MIMO (Port 3 + Port 2)

Modulation: 802.11a (OFDM 6 Mbit/s)

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3+2	5180.00000	No	11.98	4.46
		5220.00000		11.72	4.20
		5240.00000		12.34	4.82

Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3+2	5180.00000	No	11.93	4.41
		5220.00000		11.77	4.25
		5240.00000		12.36	4.84

Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3+2	5190.00000	No	13.02	5.50
		5230.00000		13.12	5.60

Modulation: 802.11ac VHT20 (OFDM MCS0)

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3+2	5180.00000	No	11.86	4.34
		5220.00000		12.18	4.66
		5240.00000		12.37	4.85

Modulation: 802.11ac VHT40 (OFDM MCS0)

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3+2	5190.00000	No	13.00	5.480
		5230.00000		13.33	5.815

Modulation: 802.11ac VHT80 (OFDM MCS0)

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3+2	5210.00000	No	13.29	5.77

Modulation: 802.11ax HE20 (OFDMA MCS0) SU

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3+2	5180.00000	No	12.45	4.93
		5220.00000		13.07	5.55
		5240.00000		12.96	5.44

Modulation: 802.11ax HE20 (OFDMA MCS0) RU26

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3+2	5180.00000	No	11.02	3.50
		5220.00000		12.41	4.89
		5240.00000		11.38	3.86

Offset RU used in each channel:

Operation Band (MHz)	Channels	Offset
[5150, 5250]	Lowest (5180MHz):	0
	Middle (5220MHz):	3
	Highest (5240MHz):	8
[5725, 5850]	Lowest (5745MHz):	0
	Middle (5785MHz):	3
	Highest (5825MHz):	8

Modulation: 802.11ax HE40 (OFDMA MCS0) SU

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3+2	5190.00000	No	12.59	5.07
		5230.00000		13.09	5.57

Modulation: 802.11ax HE40 (OFDMA MCS0) RU26

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3+2	5190.00000	No	13.38	5.86
		5230.00000		13.46	5.94

Offset RU used in each channel:

Operation Band (MHz)	Channels	Offset
[5150, 5250]	Lowest (5190MHz):	0
	Highest (5230MHz):	17
[5725, 5850]	Lowest (5755MHz):	0
	Highest (5795MHz):	17

Modulation: 802.11ax HE80 (OFDMA MCS0) SU

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3+2	5210.00000	No	12.95	5.43

Modulation: 802.11ax HE80 (OFDMA MCS0) RU26

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	3+2	5210.00000	No	12.93	5.41

Offset RU used in each channel:

Operation Band (MHz)	Channel	Offset
[5150, 5250]	Single (5190MHz):	18
[5725, 5850]	Single (5755MHz):	18

Verdict

Pass

RSS-247 6.2.1.2 / FCC 15.407 (b) (1) (6) [Rse] Transmitter Out of Band Radiated Emissions For transmitters operating in the 5.15–5.25 GHz

Limits

For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz (68.23 dBμV/m at 3 m distance).

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

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)	-	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 40000	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.

Modulation: 802.11ax HE20 (OFDMA MCS0)

Results

Operation Band (MHz)	Port	Freq Rng (GHz)	Freq (MHz)	Subcarrier Mode	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
[5150, 5250]	3	[0.03, 1]	5180.00000	RU	249.996	29.02	H	PK
					249.996	26.71	H	QP
					374.997	35.85	H	PK
					374.997	33.35	H	QP
					499.997	30.77	V	PK
					499.997	27.59	V	QP
					624.998	34.73	V	PK
					624.998	32.12	V	QP
					874.999	33.78	V	PK
					874.999	30.91	V	QP
			124.995		23.21	V	PK	
			124.995		20.01	V	QP	
			249.996		28.47	H	PK	
			249.996		25.92	H	QP	
			374.997		35.06	H	PK	
			374.997		32.96	H	QP	
			499.997		31.48	V	PK	
			499.997		28.64	V	QP	
			624.998		33.85	V	PK	
			624.998		30.90	V	QP	
	874.999		36.55		V	PK		
	874.999		34.11		V	QP		
	2+3		5180.00000		249.996	27.56	H	PK
					249.996	25.23	H	QP
					374.997	34.89	H	PK
					374.997	32.61	H	QP
					499.997	30.21	V	PK
					499.997	27.01	V	QP
					624.998	35.36	V	PK
					624.998	32.82	V	QP
					874.999	36.34	V	PK
					874.999	33.87	V	QP

Verdict

Pass

Attachments

Operation Band MHz = [5150, 5250]

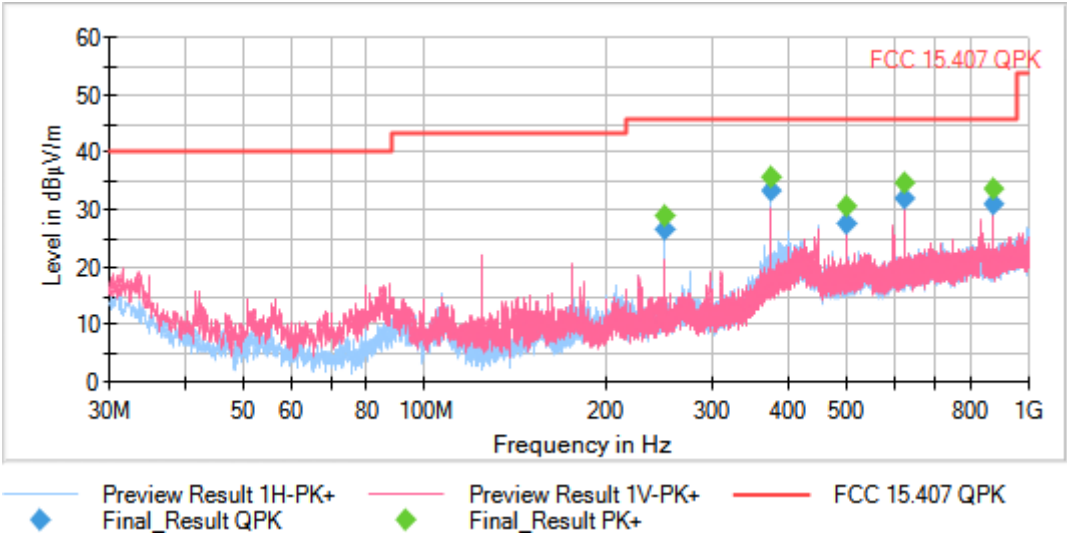
Active Port = 3

Frequency Range GHz = [0.03, 1]

The spurious frequencies detected do not depend on the transmission channel or the Modulation

Subcarrier Mode = RU

Images:



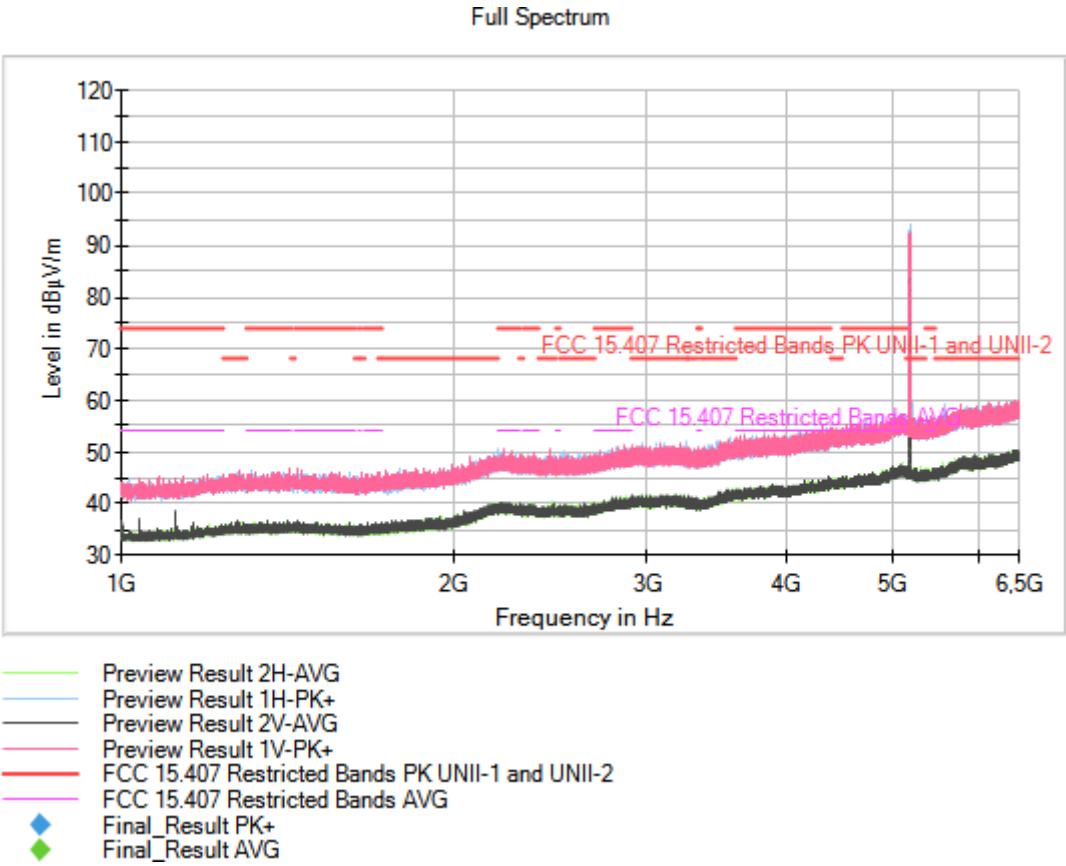
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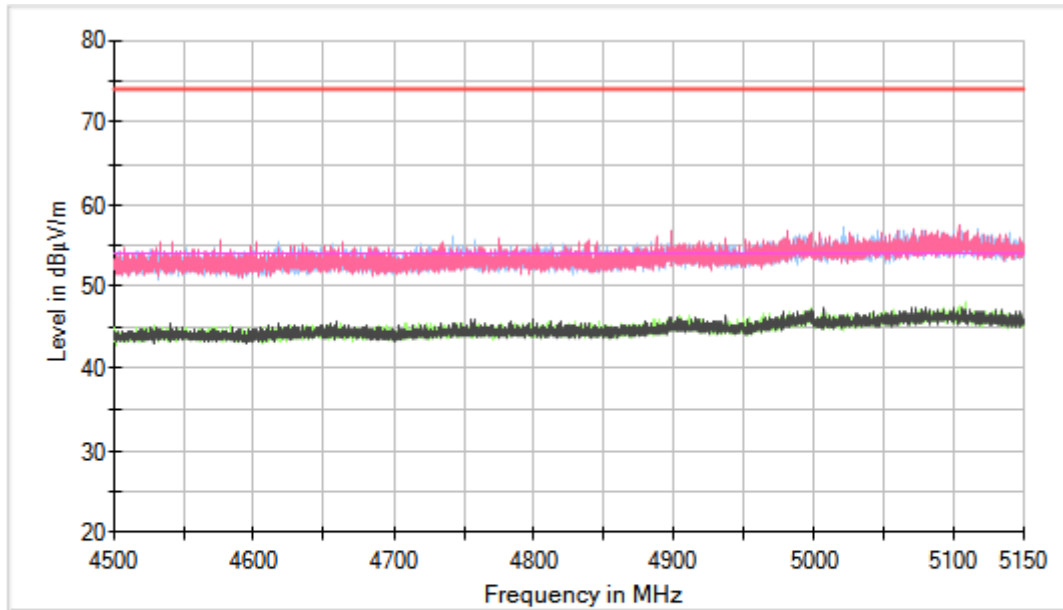
Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	30 MHz - 1 GHz	32,333 kHz	PK+	100 kHz	Coupled	0 dB

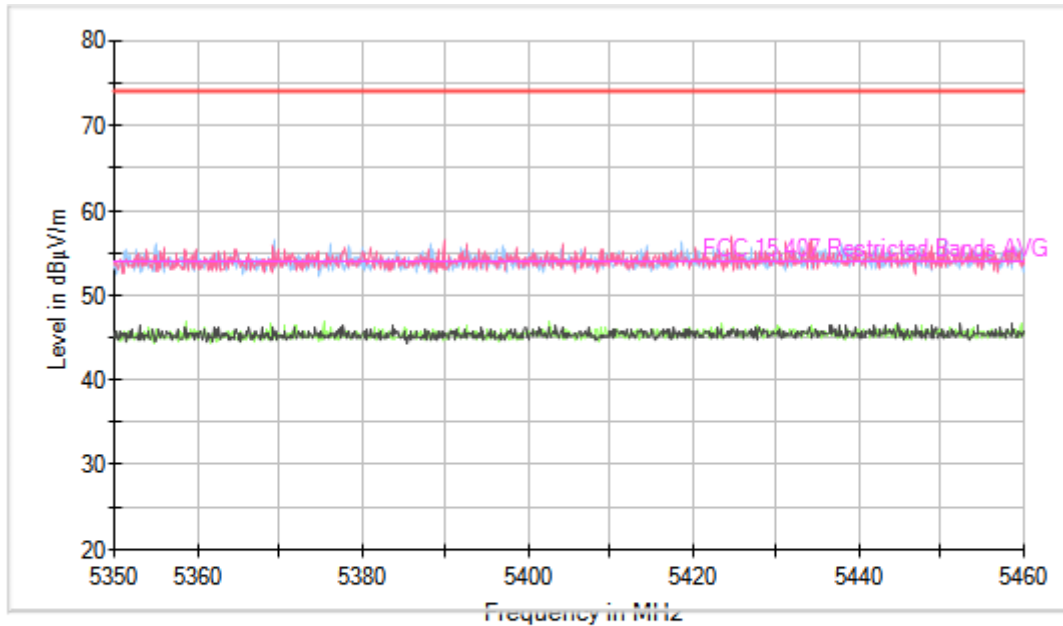
Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5180.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = SU

Images:





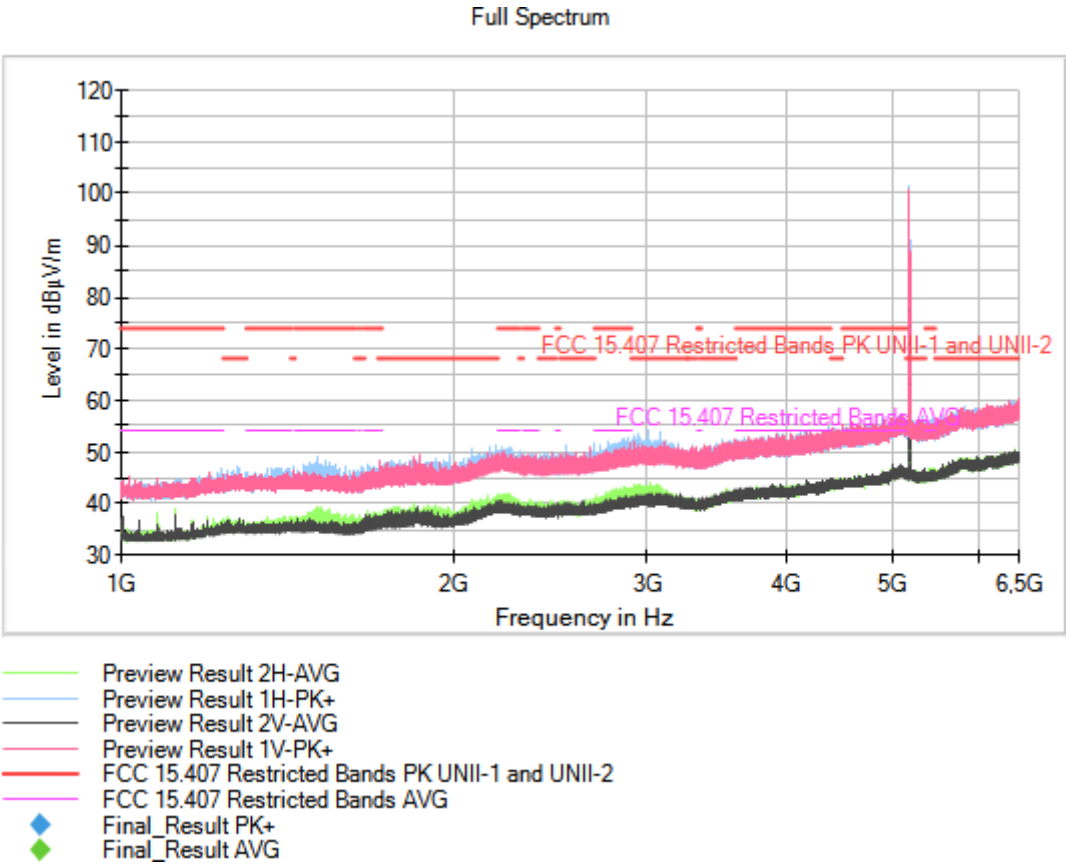
- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

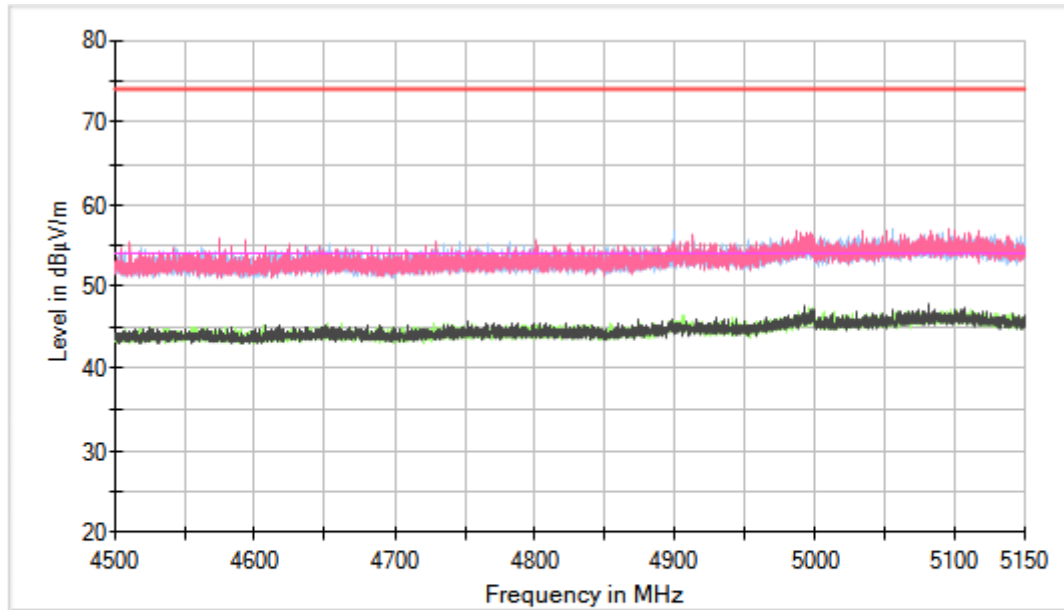


- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

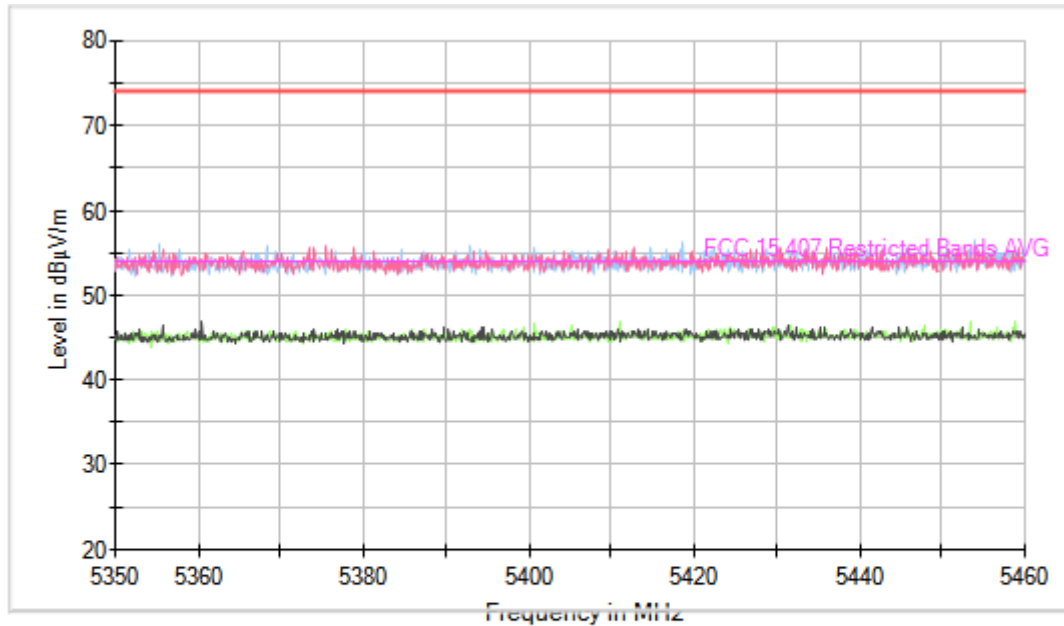
Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5180.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = RU

Images:





- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG



- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

Operation Band MHz = [5150, 5250]

Active Port = 3

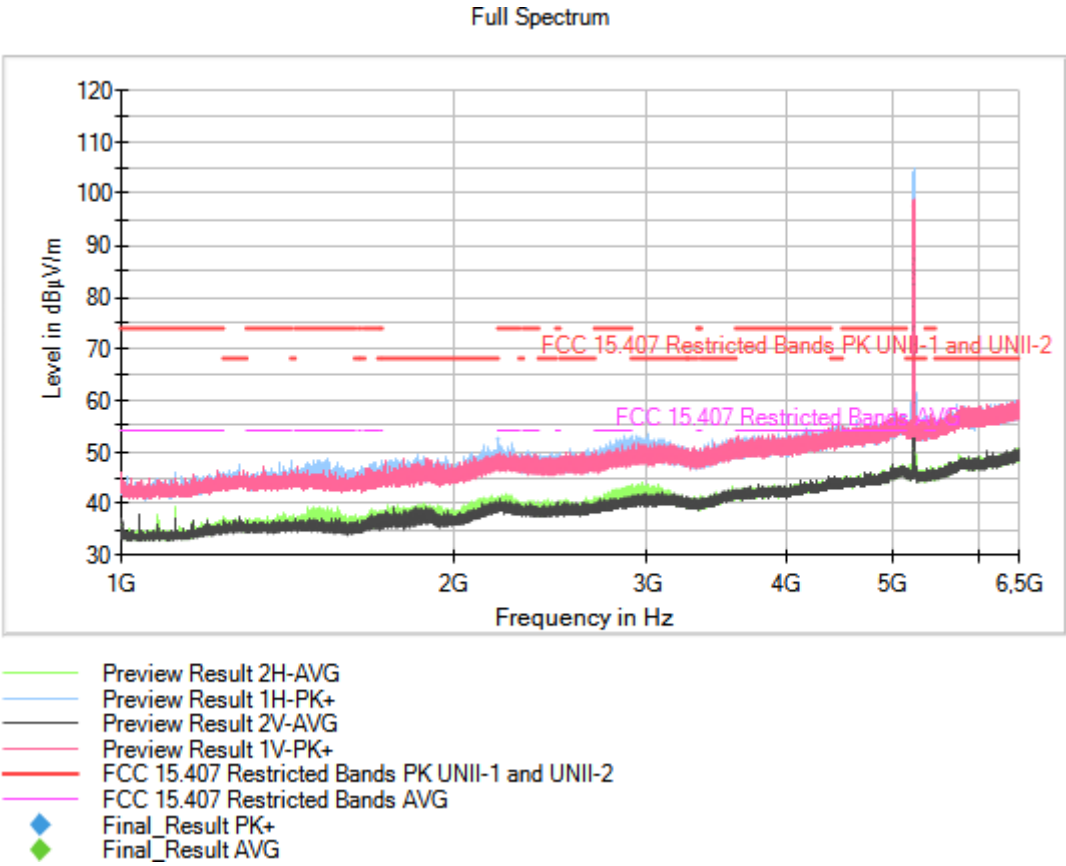
Frequency Range GHz = [1, 6.5]

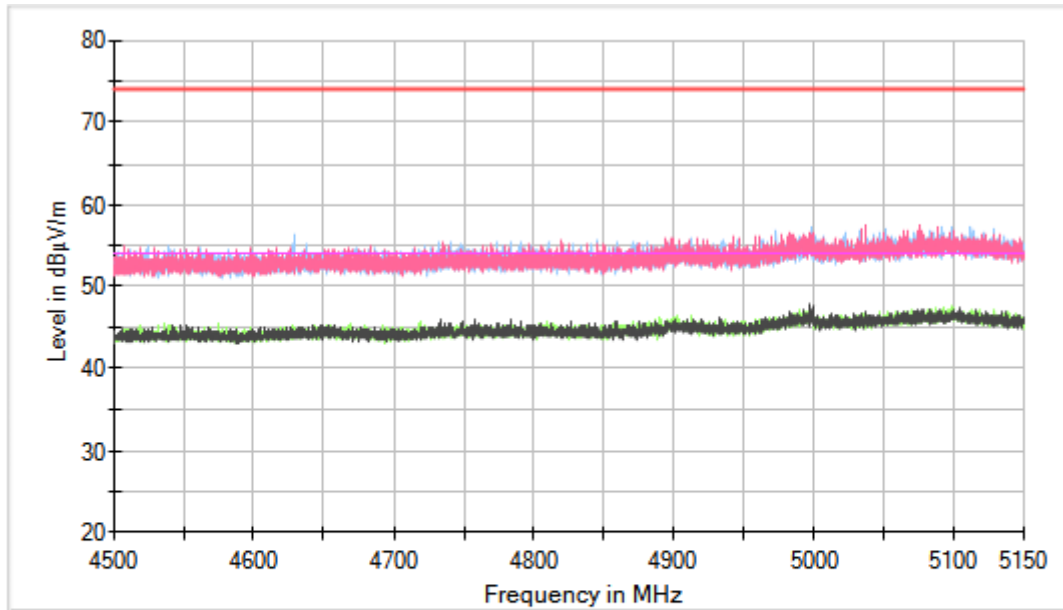
Frequency MHz = 5220.00000

Modulation = 802.11ax HE20 (OFDMA MCS0)

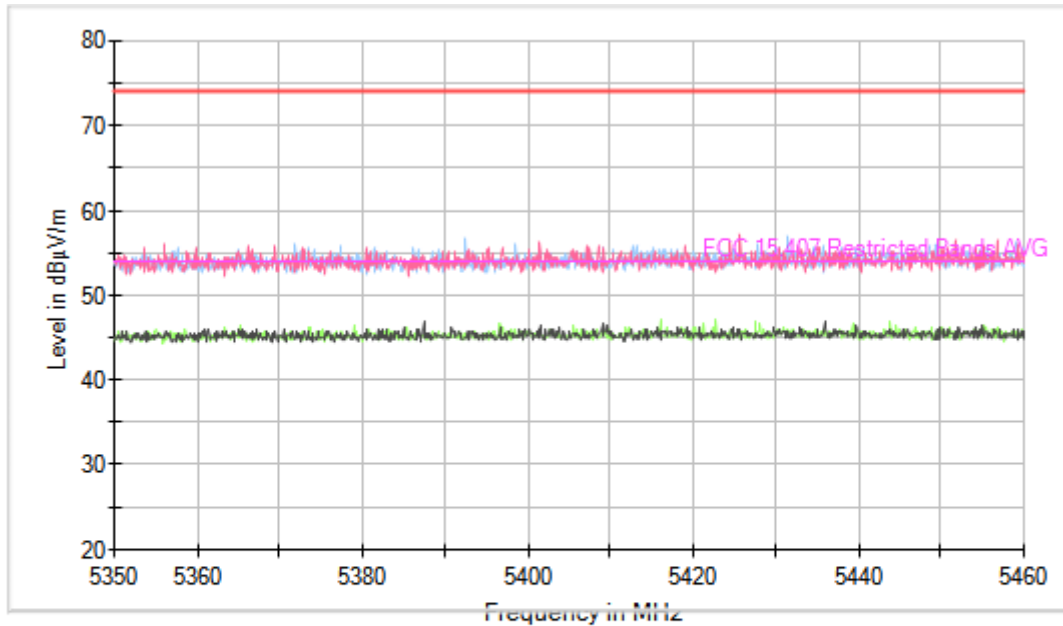
Subcarrier Mode = SU

Images:





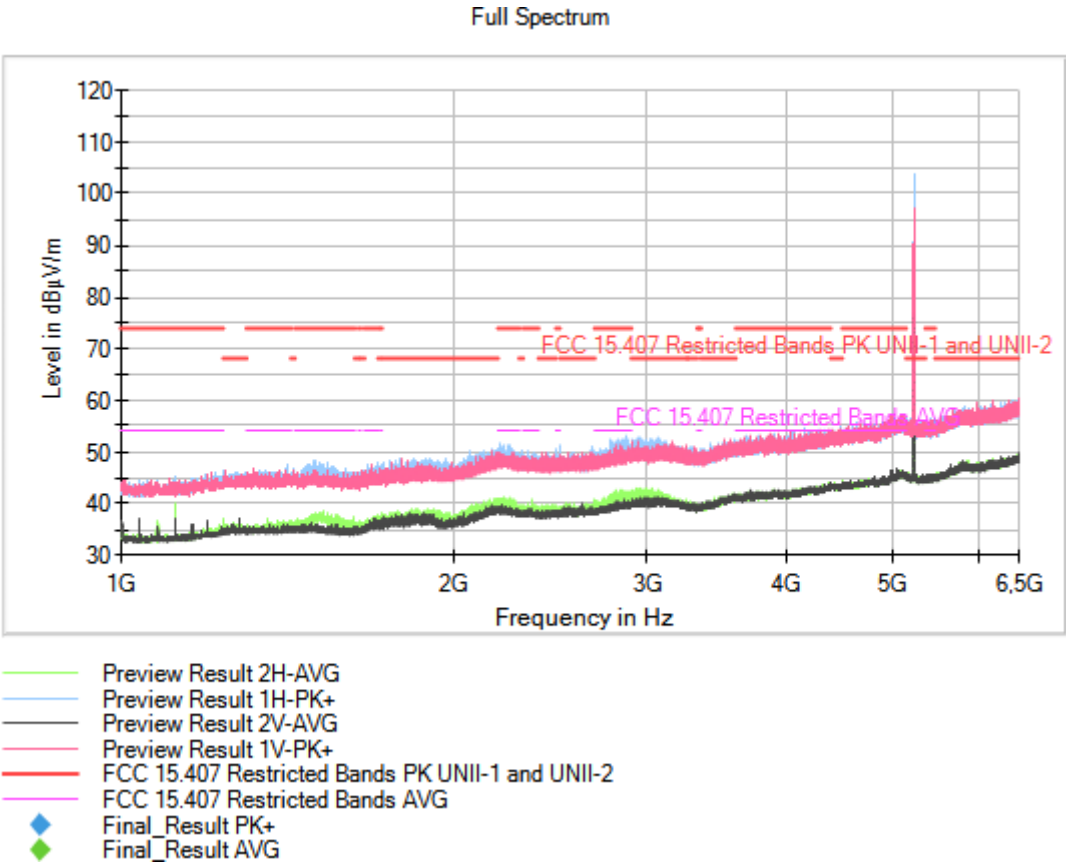
- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

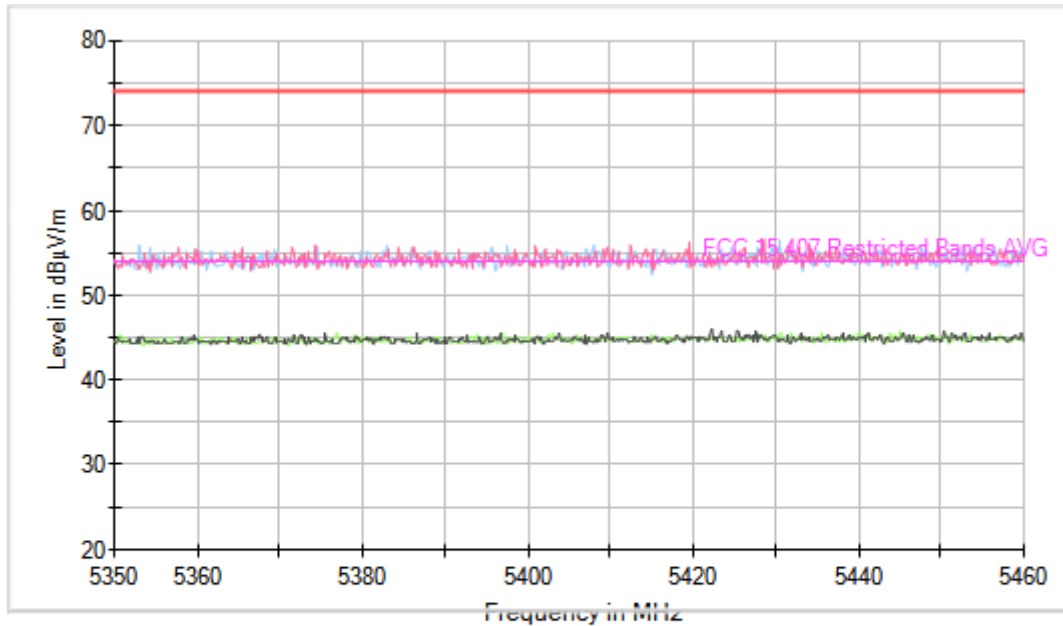
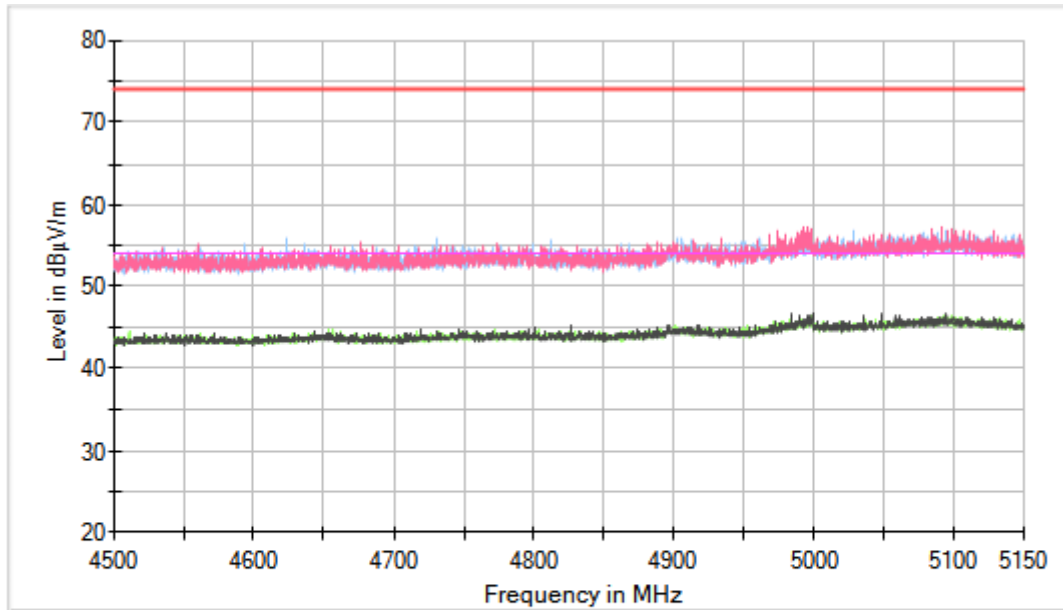


- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5220.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = RU

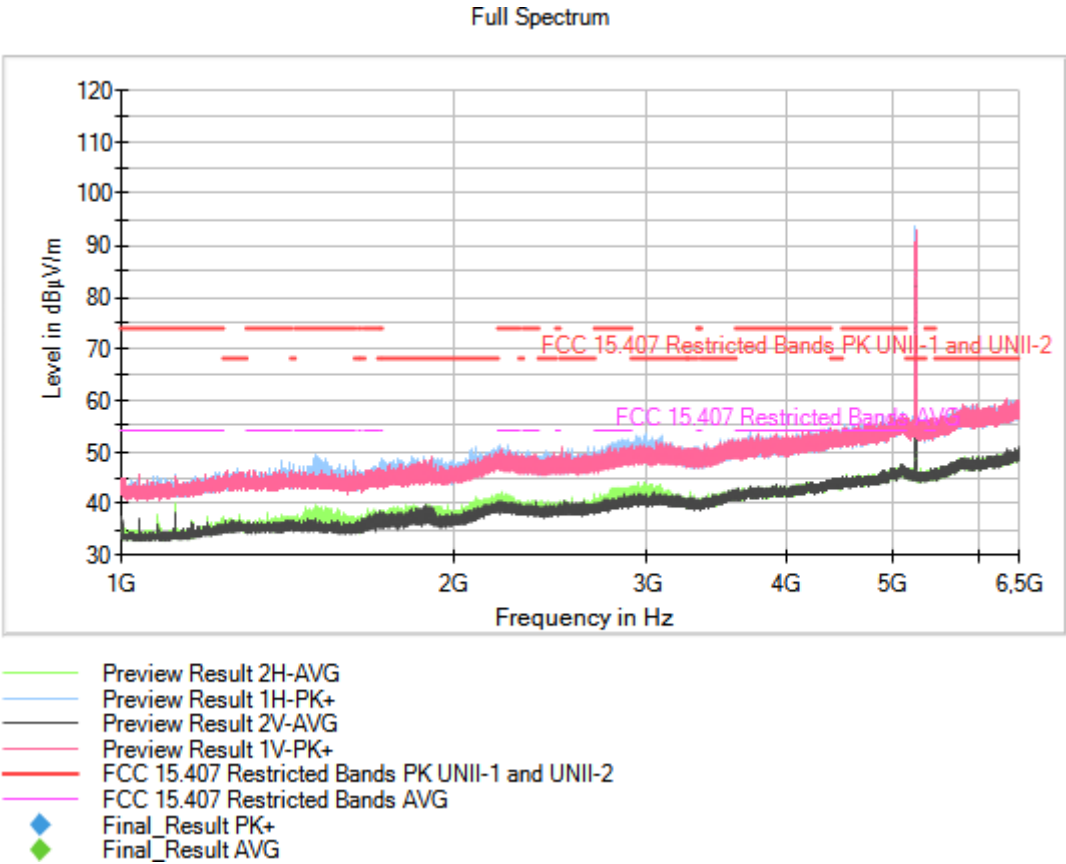
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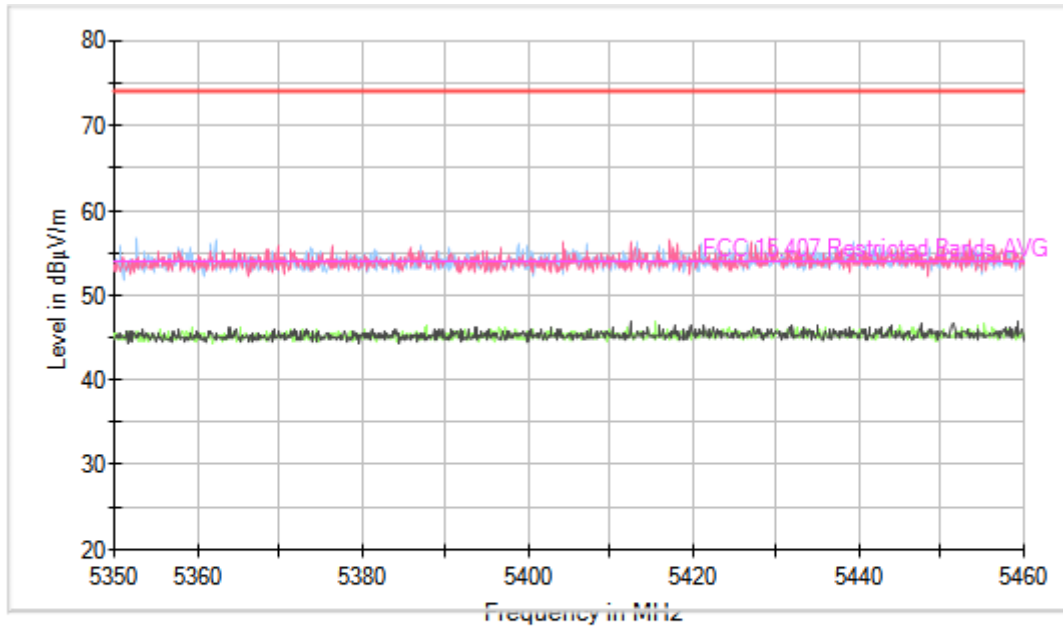
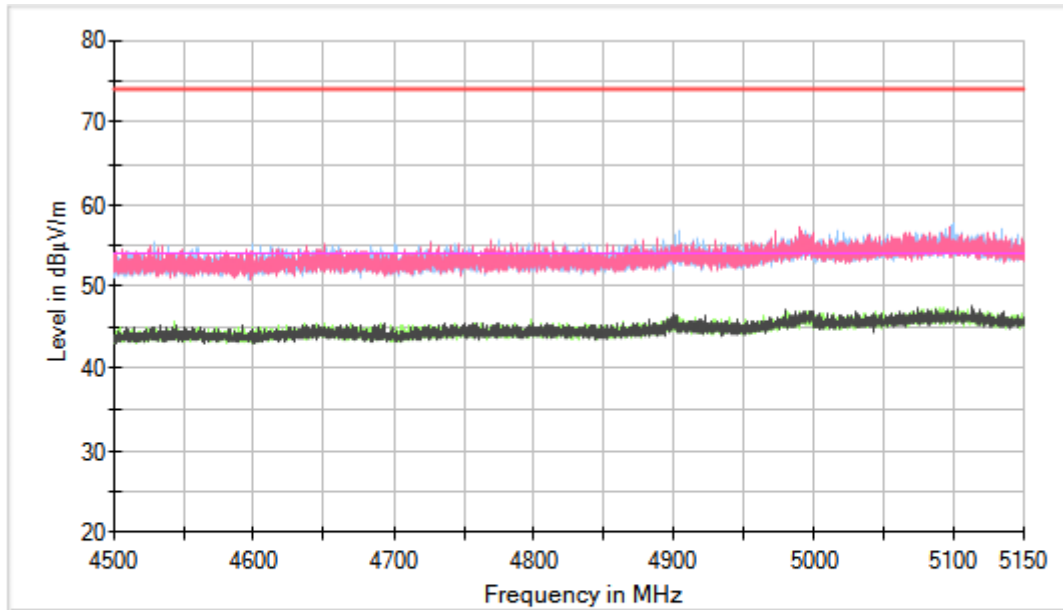




Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5240.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = SU

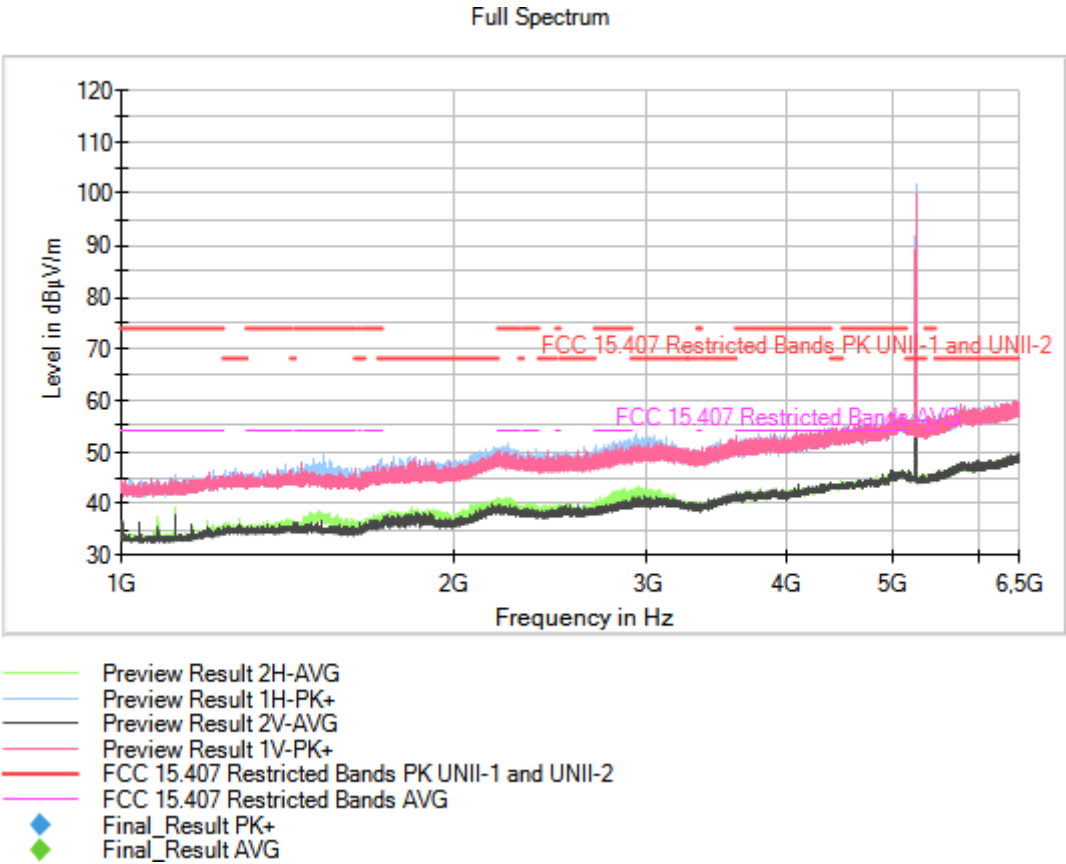
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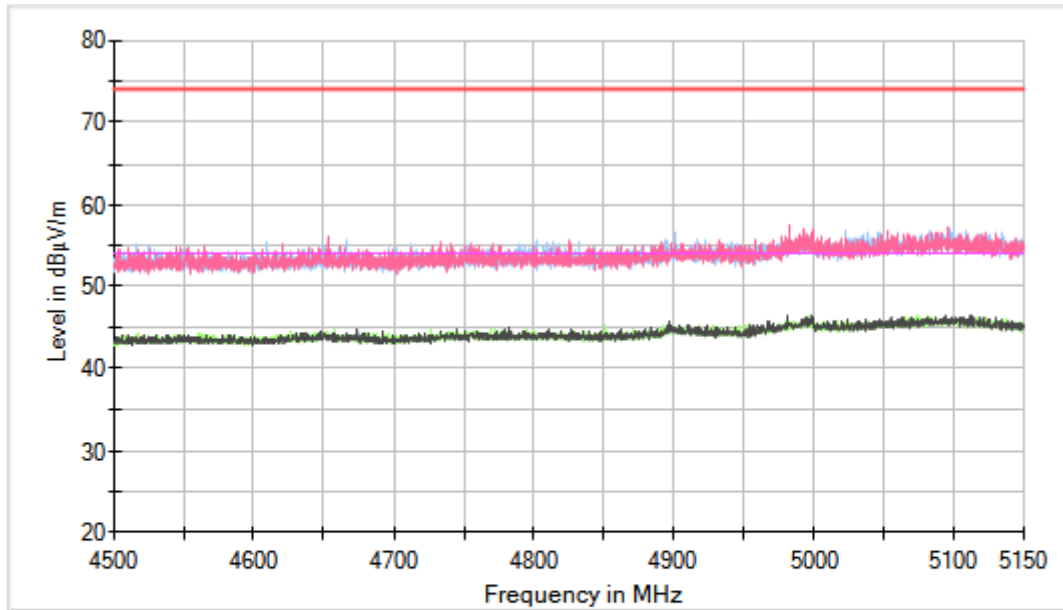




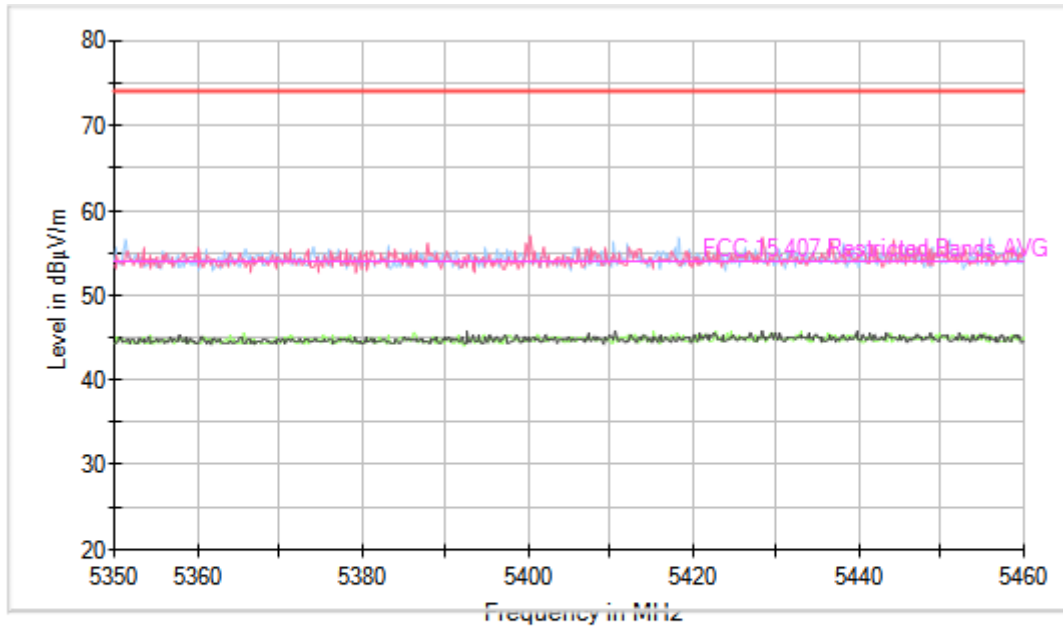
Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5240.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = RU

Images:





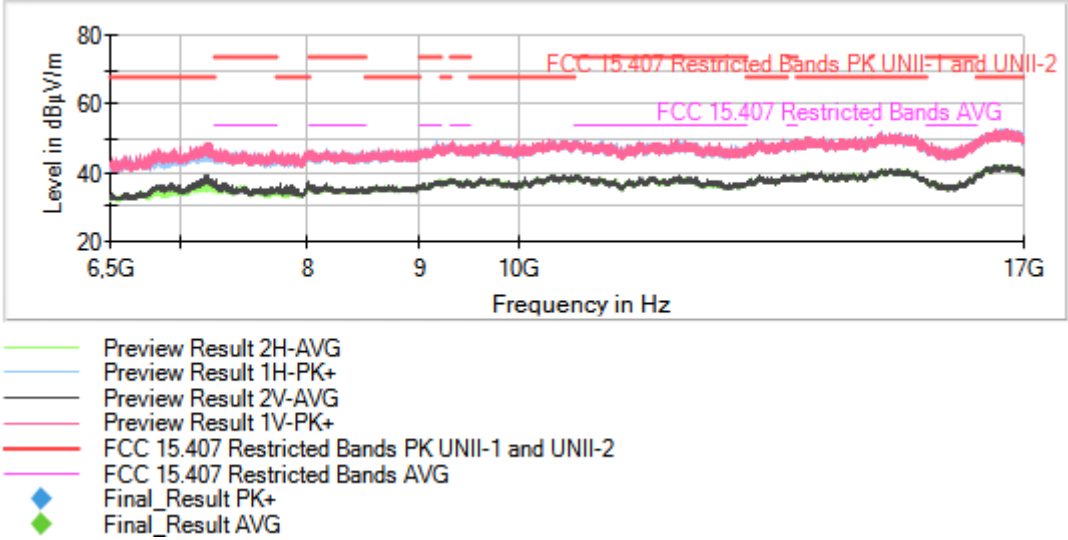
- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG



- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [6.5, 17] Frequency MHz = 5180.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = RU

Images:



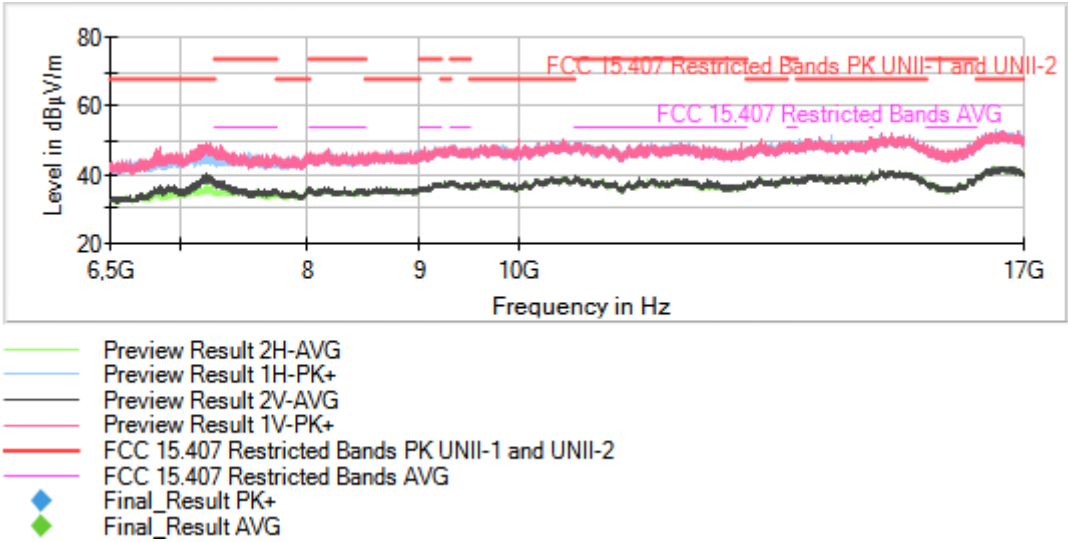
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	6,5 GHz - 17 GHz	350 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [6.5, 17] Frequency MHz = 5220.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = RU

Images:



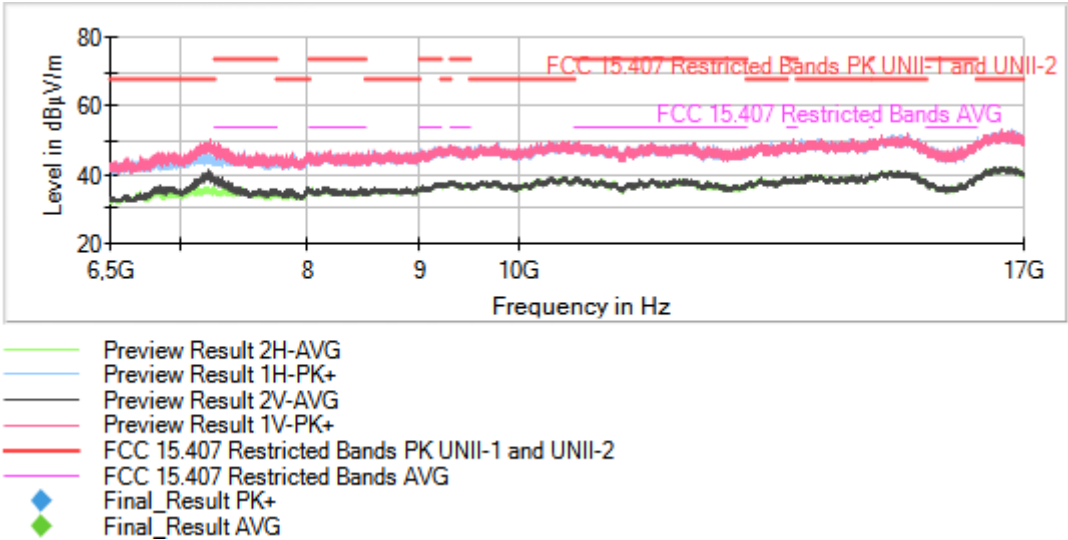
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	6,5 GHz - 17 GHz	350 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [6.5, 17] Frequency MHz = 5240.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = RU

Images:



Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	6,5 GHz - 17 GHz	350 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Operation Band MHz = [5150, 5250]

Active Port = 3

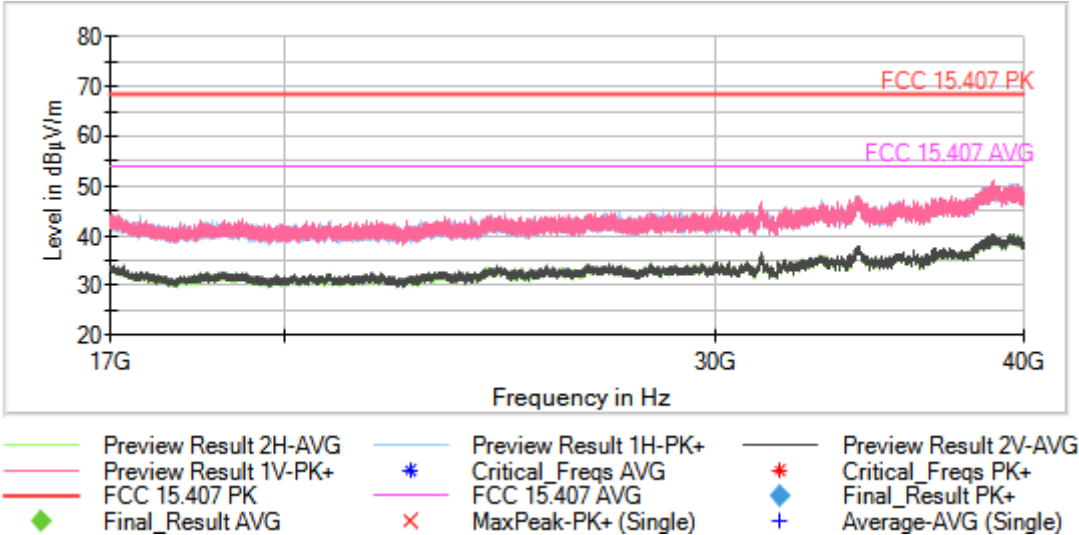
Frequency Range GHz = [17, 40]

Frequency MHz = 5180.00000

The spurious frequencies detected do not depend on the transmission channel or the Modulation

Subcarrier Mode = RU

Images:



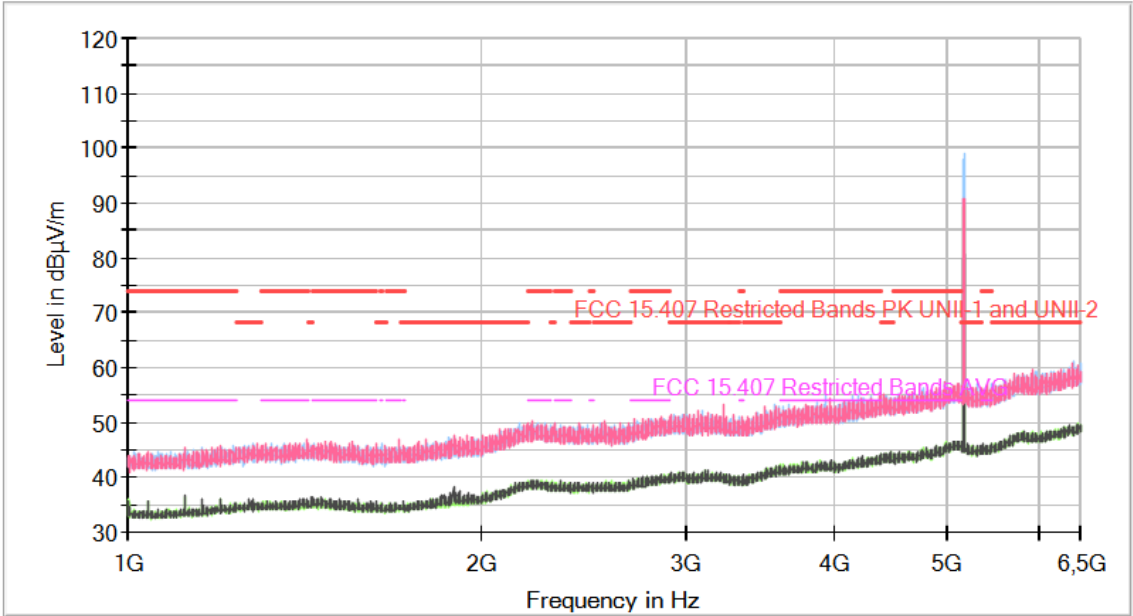
Tables:
Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [FSV 40]					
	17 GHz - 40 GHz	718,75 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

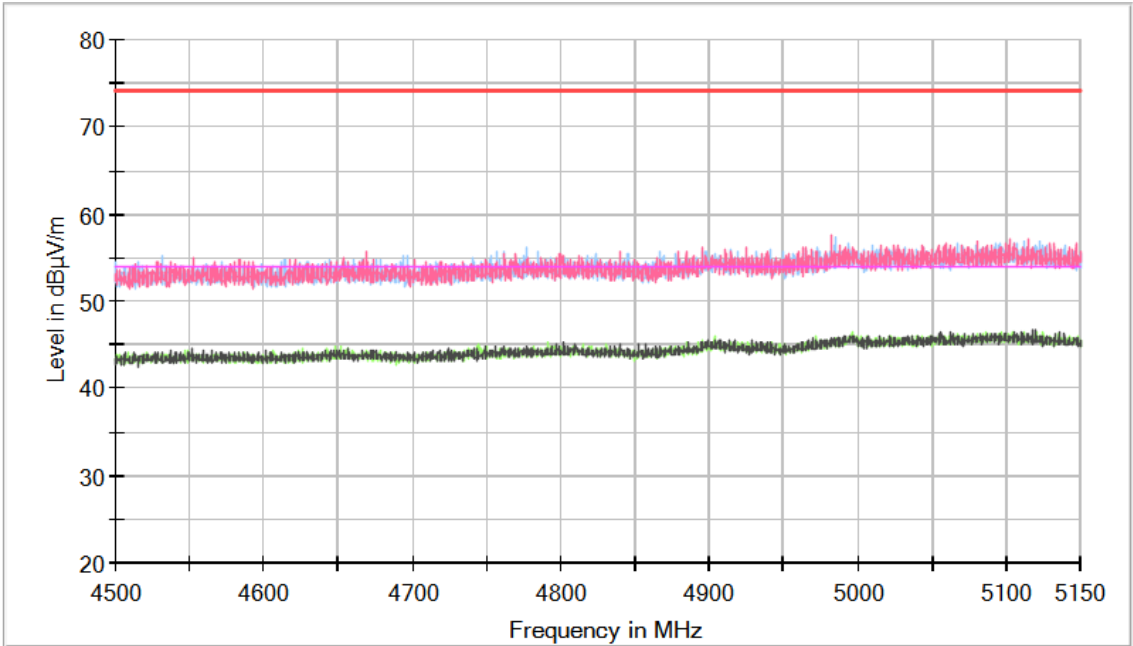
Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5180.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = SU

Images:

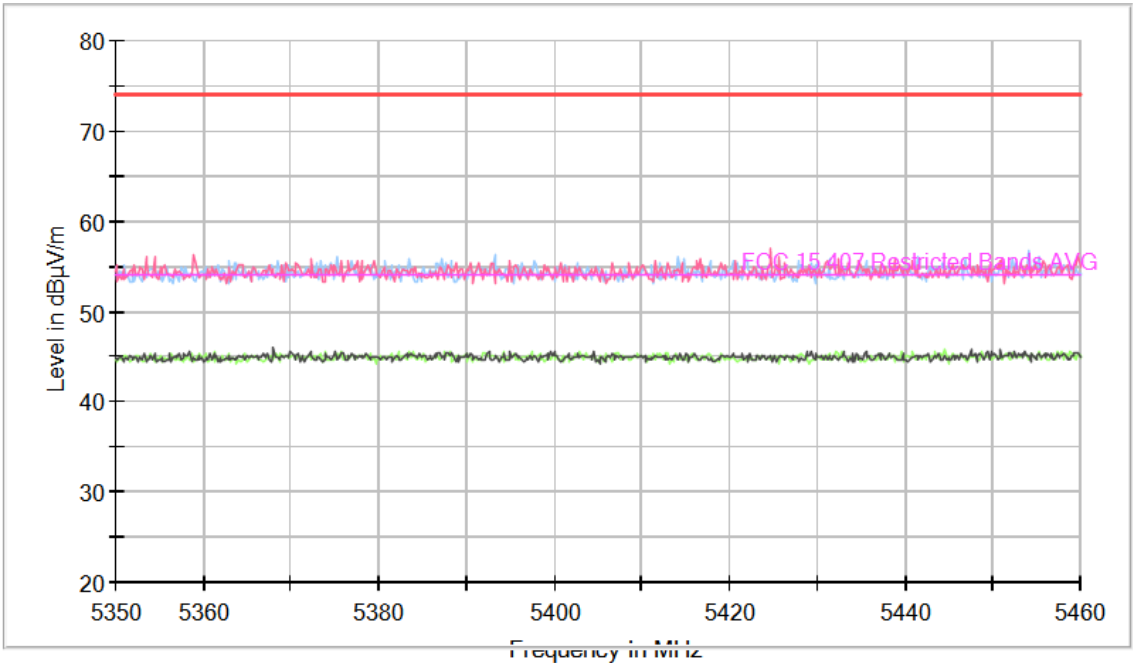
Full Spectrum



- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG



- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final Result PK+
- Final Result AVG

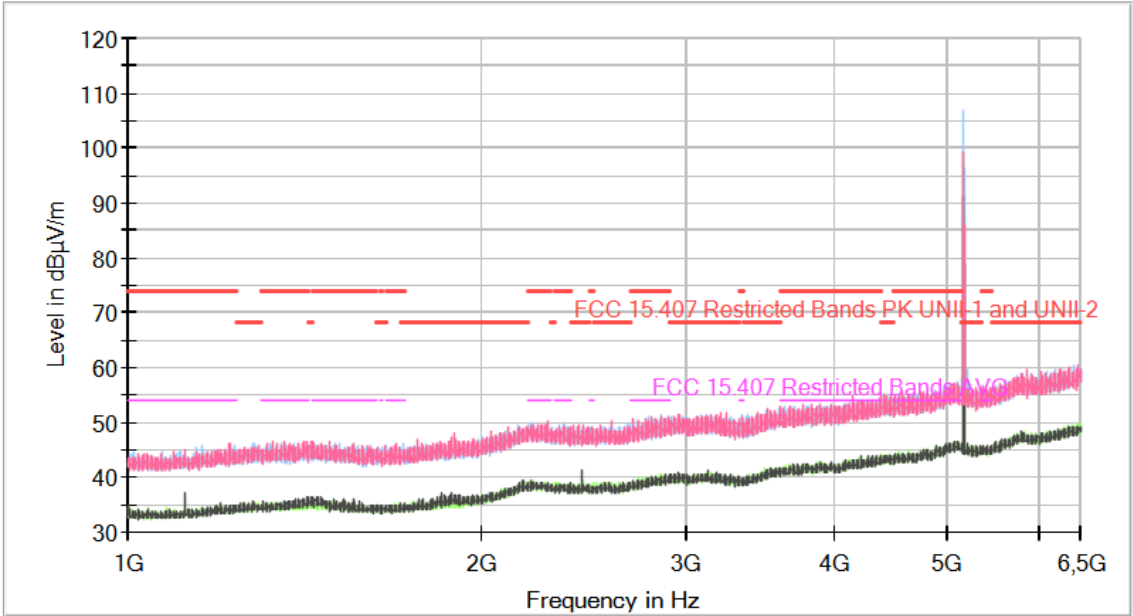


- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final Result PK+
- Final Result AVG

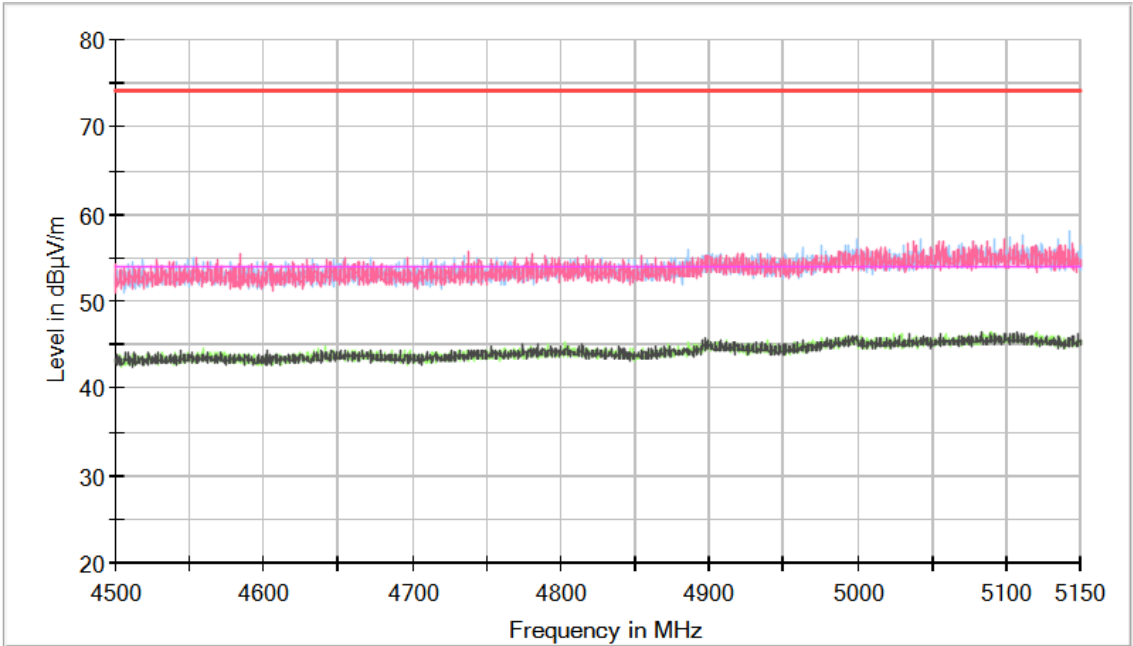
Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5180.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = RU

Images:

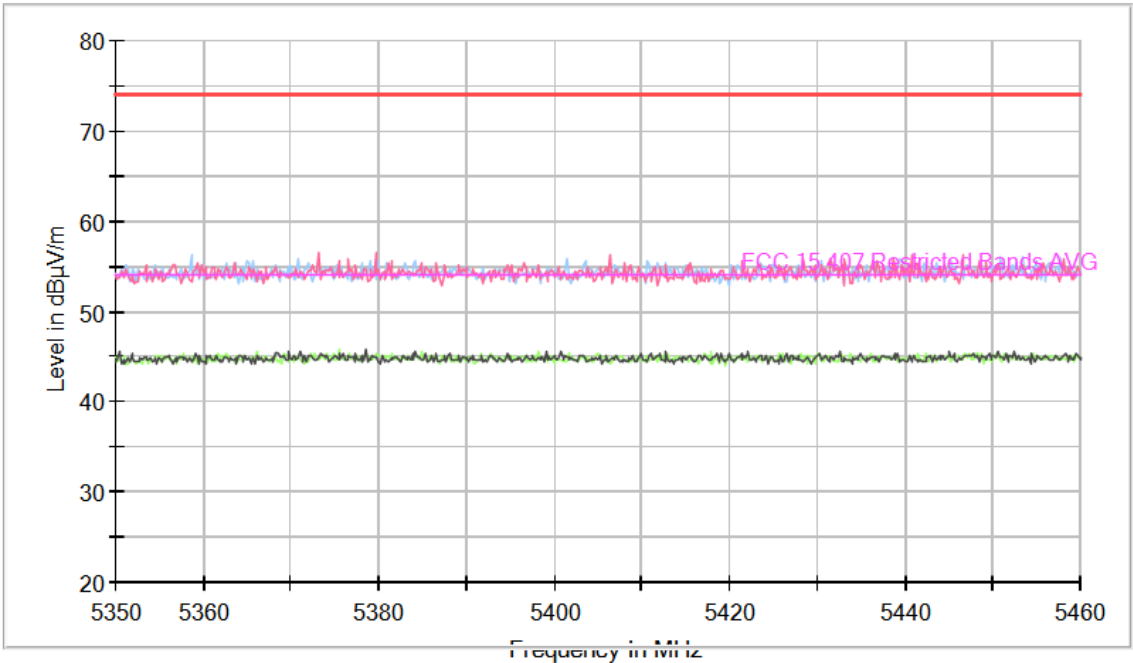
Full Spectrum



- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
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- Final_Result PK+
- Final_Result AVG



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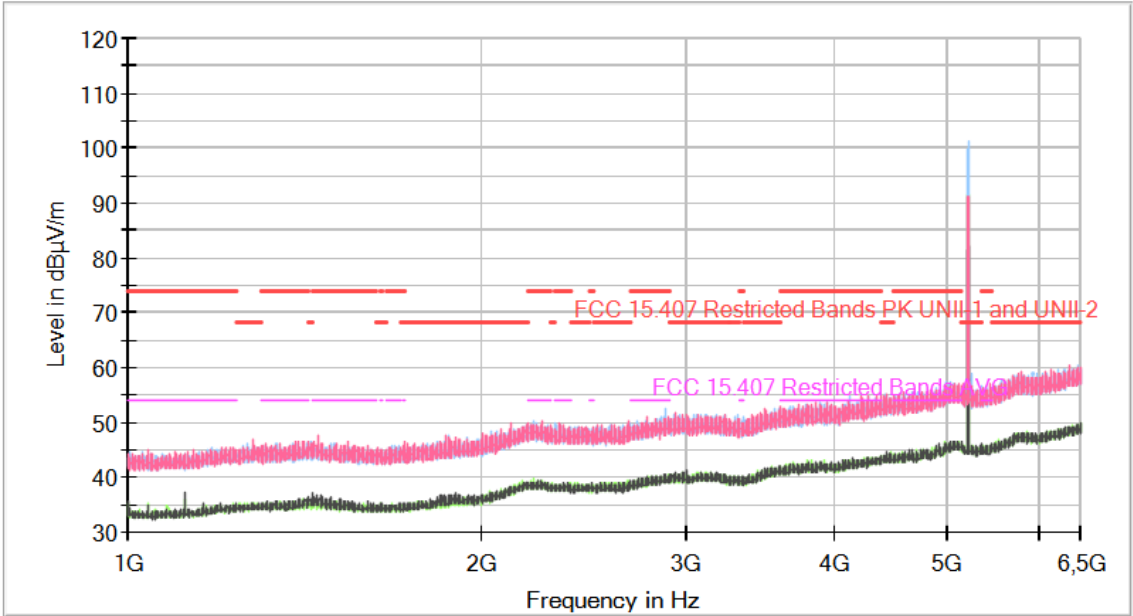


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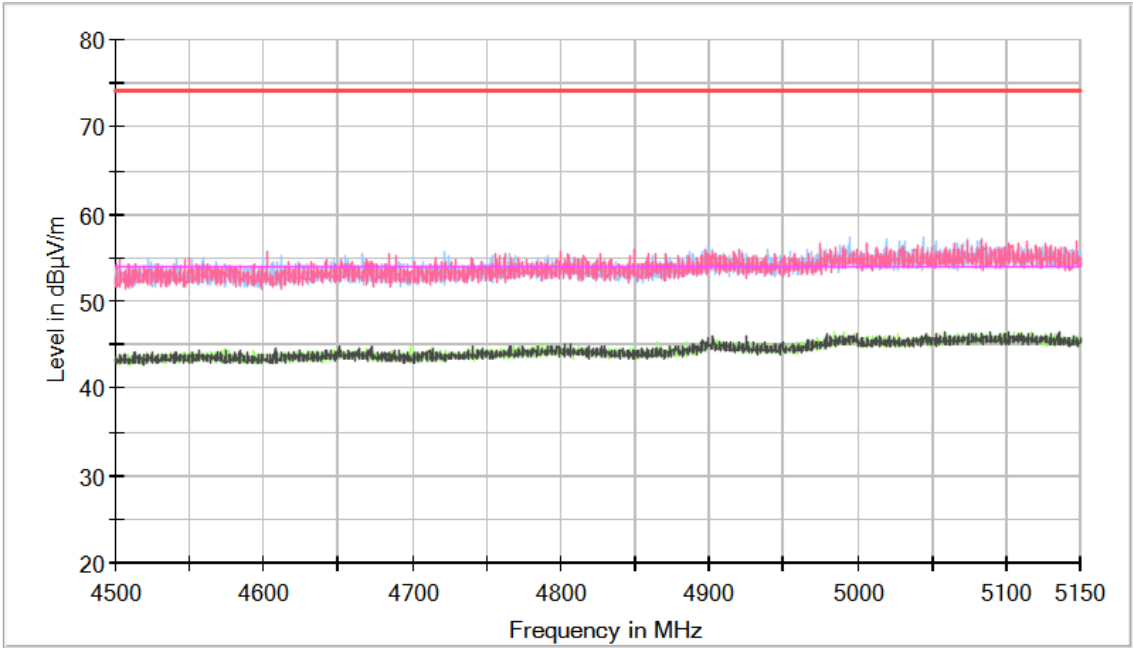
Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5220.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = SU

Images:

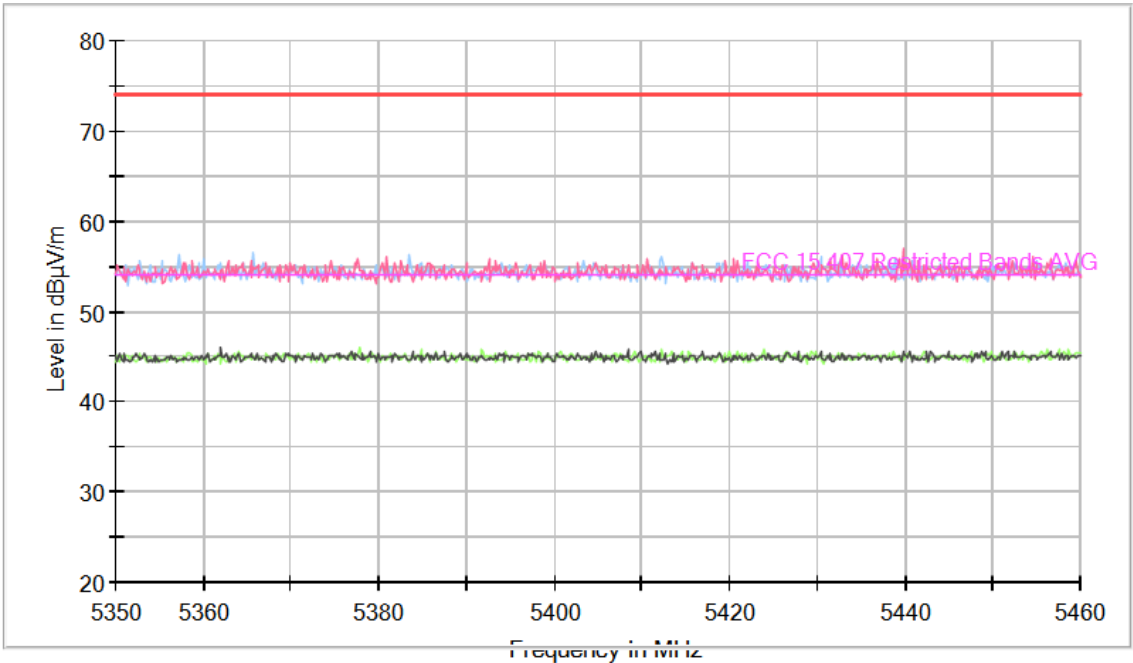
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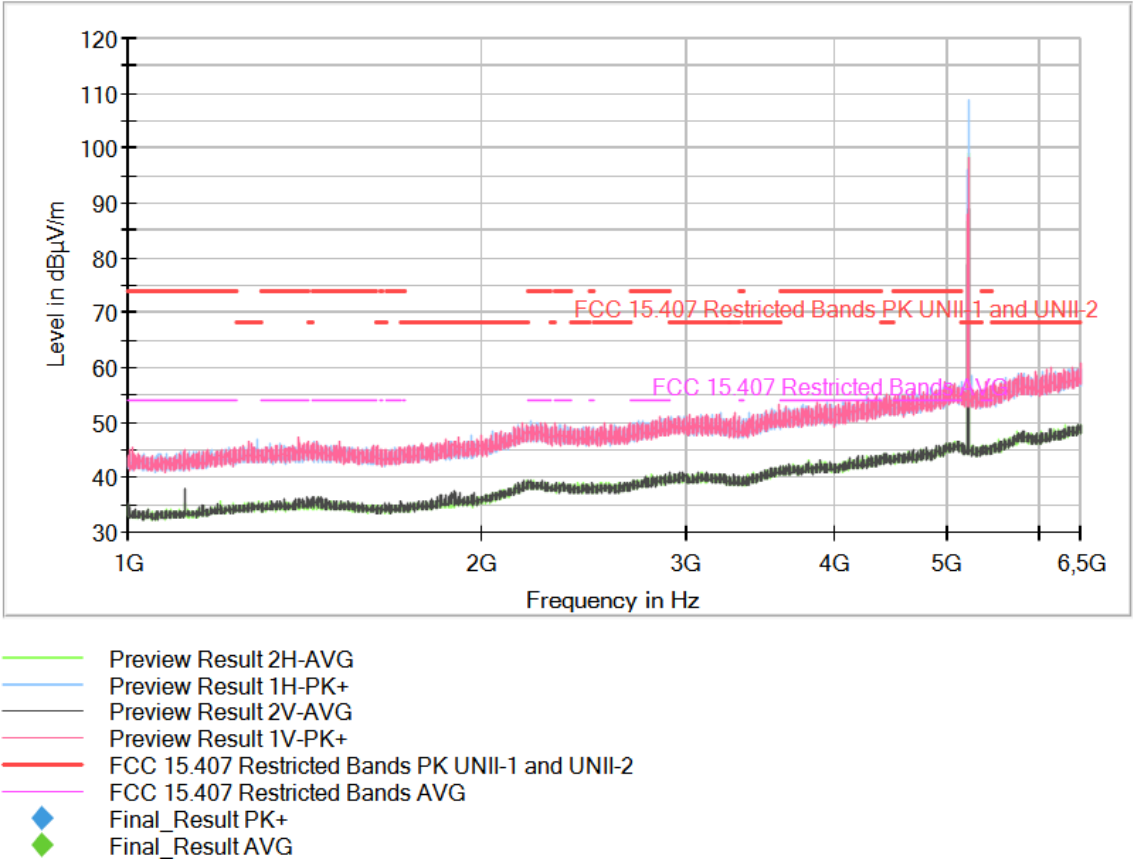


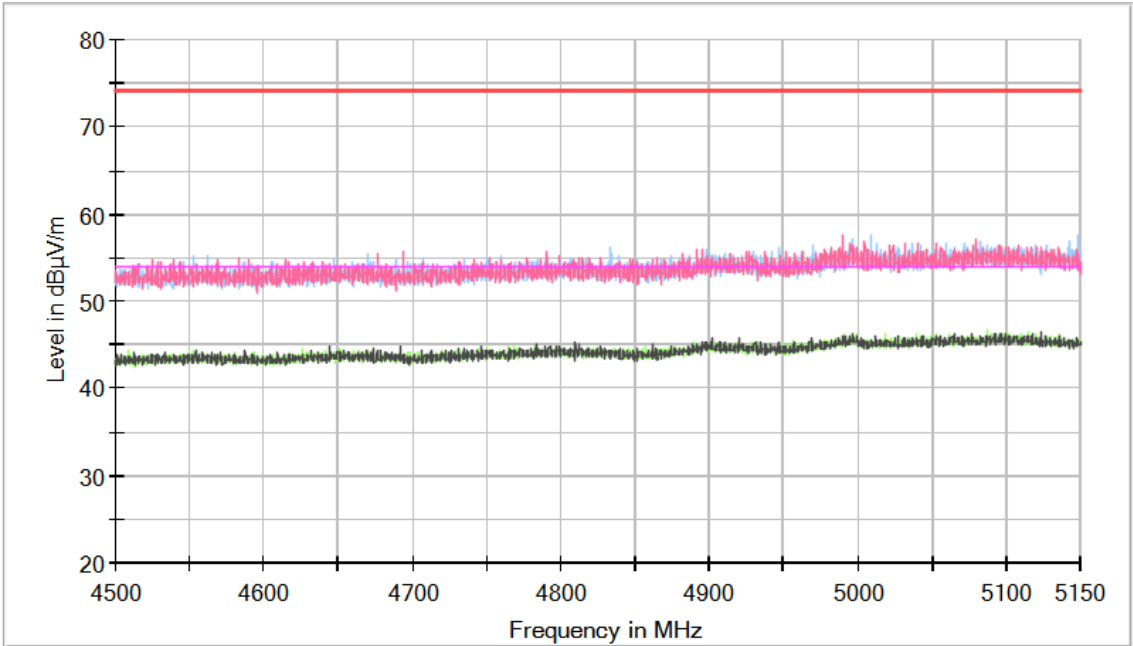
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Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5220.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = RU

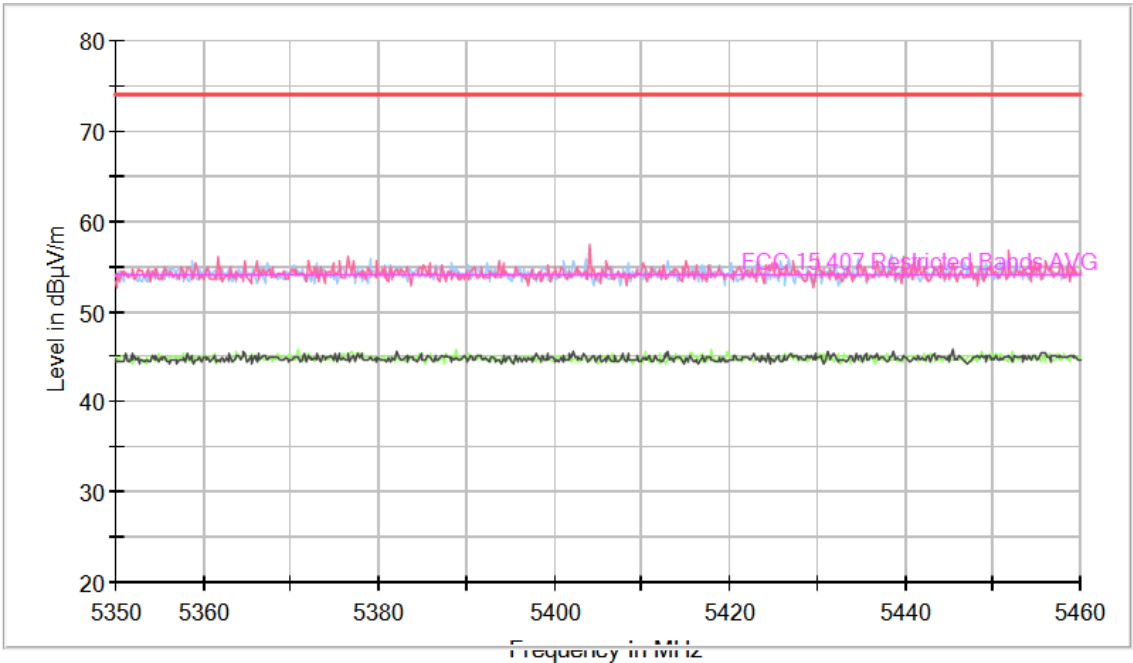
Images:

Full Spectrum





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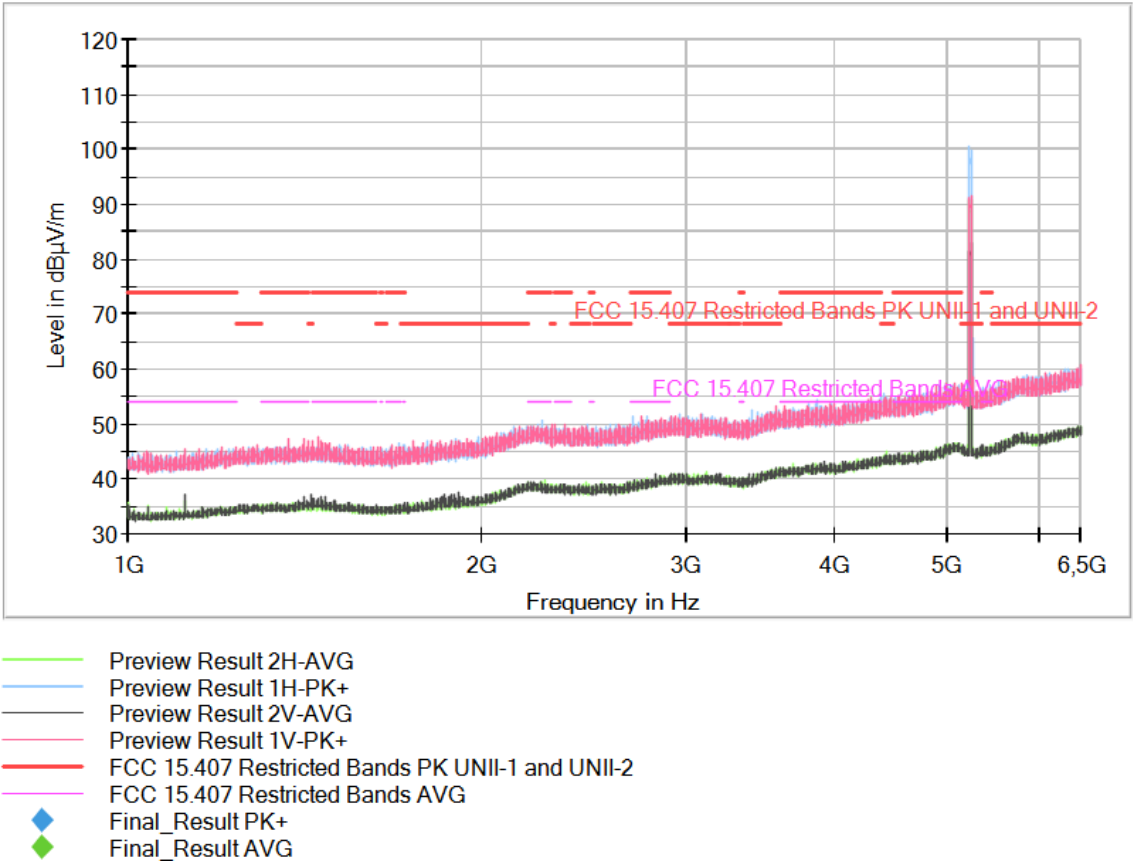


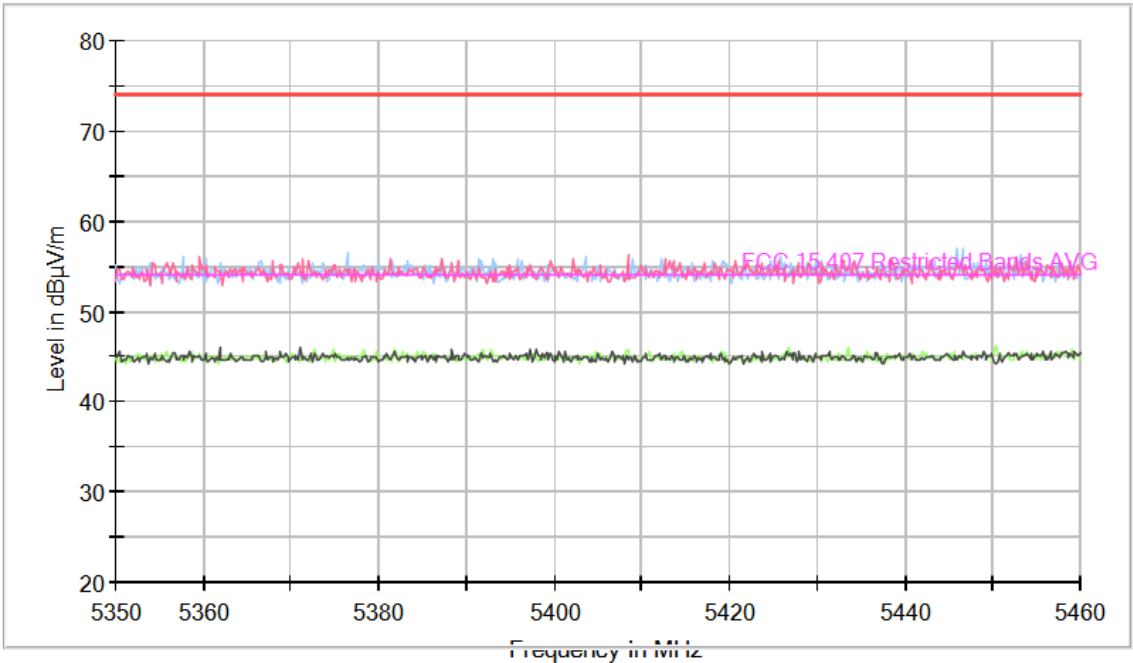
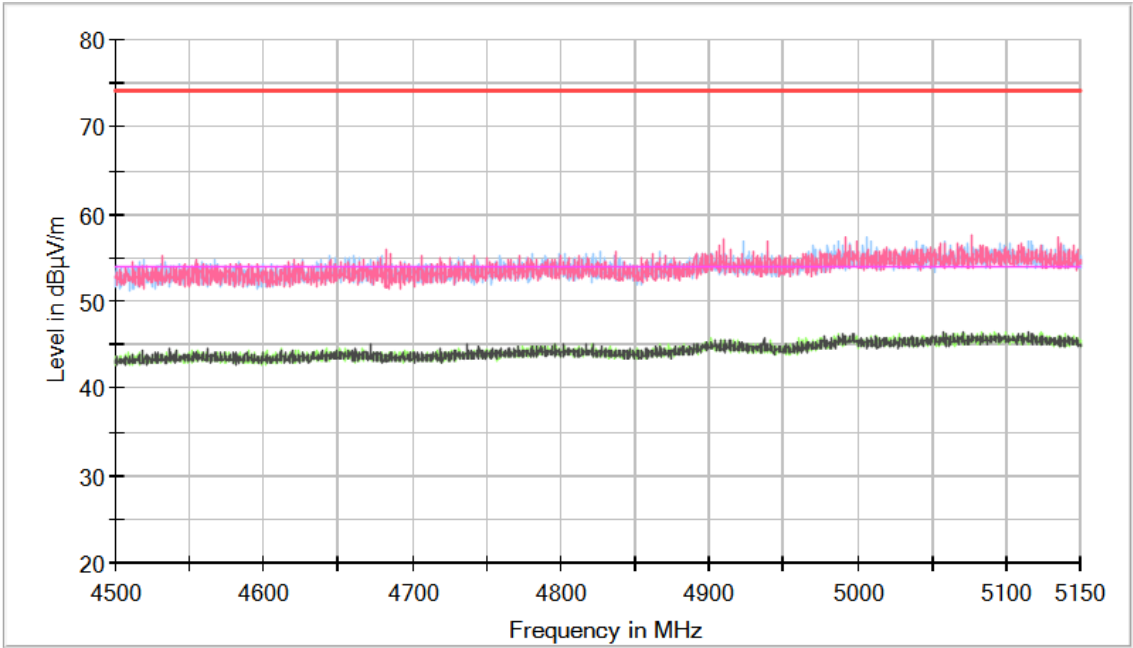
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- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5240.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = SU

Images:

Full Spectrum

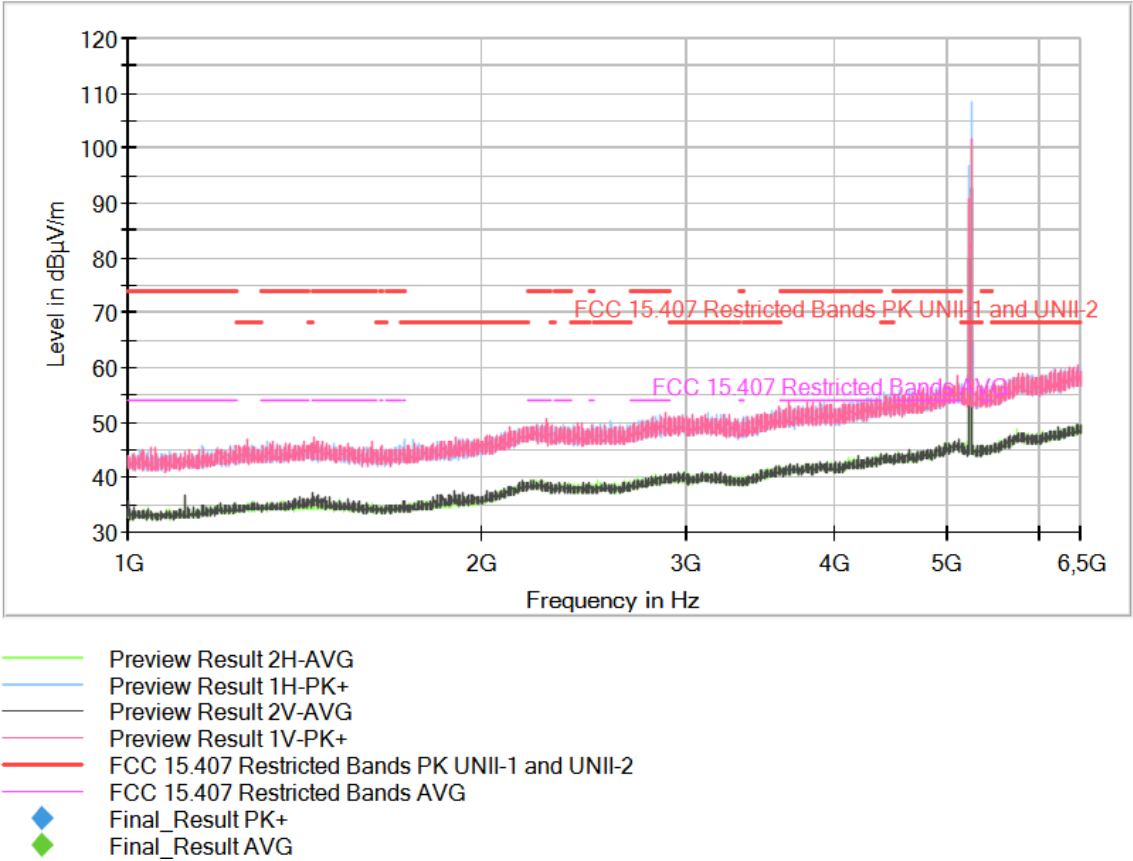


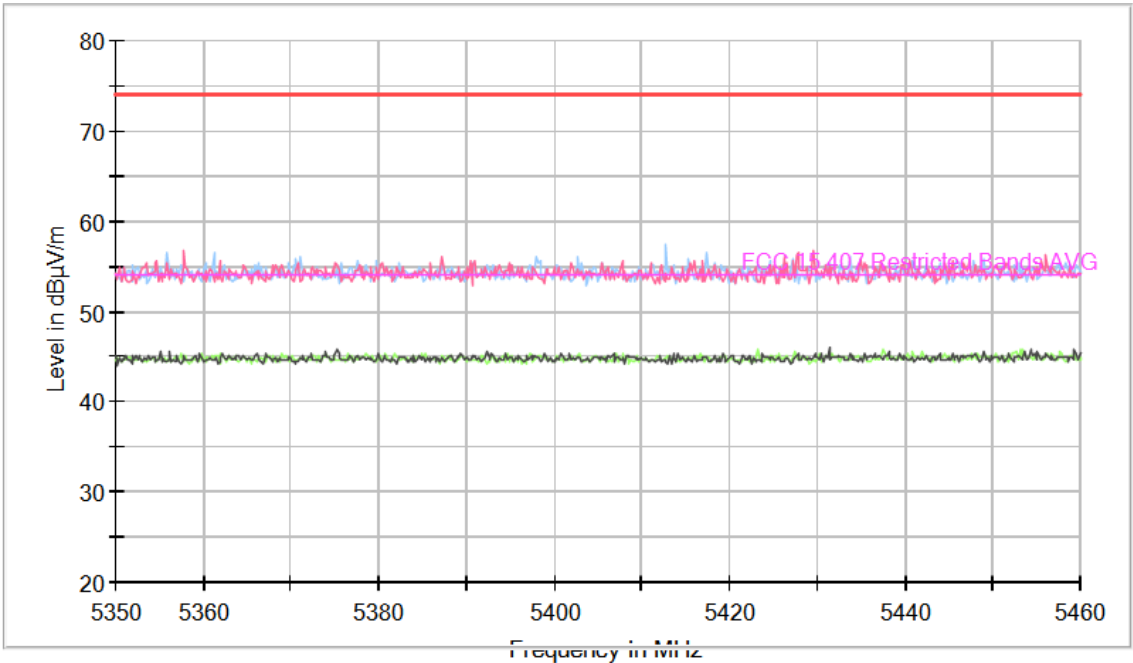
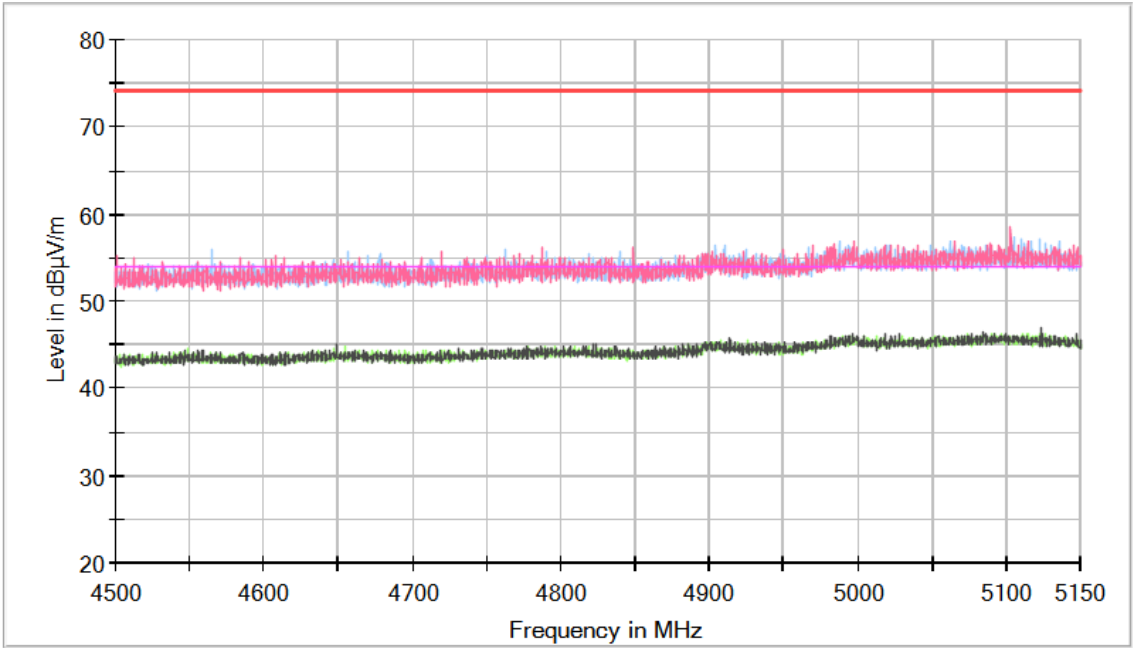


Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5240.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = RU

Images:

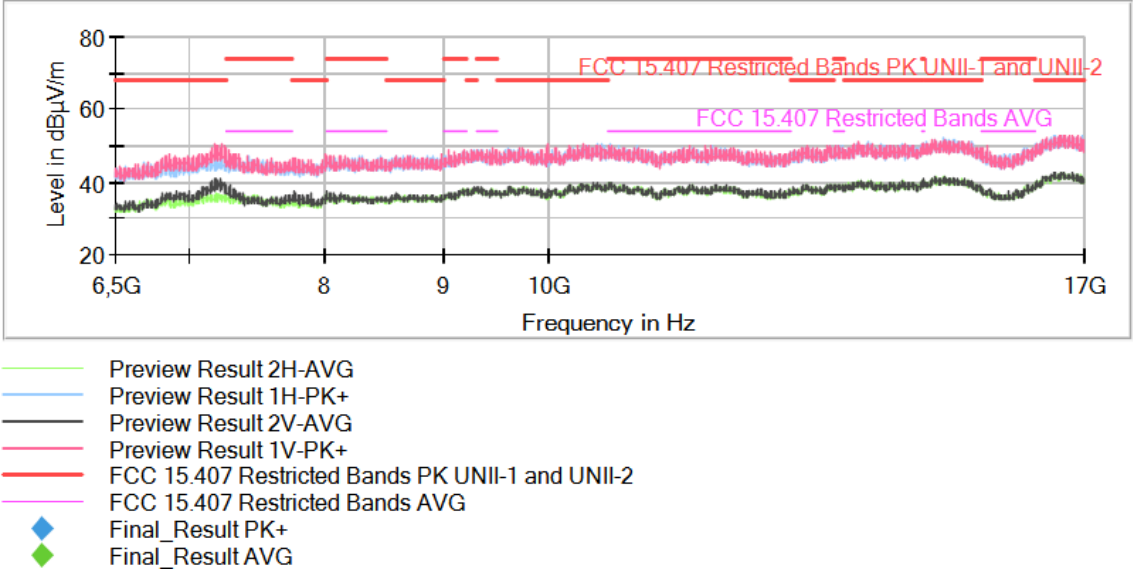
Full Spectrum





Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [6.5, 17] Frequency MHz = 5180.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = RU

Images:



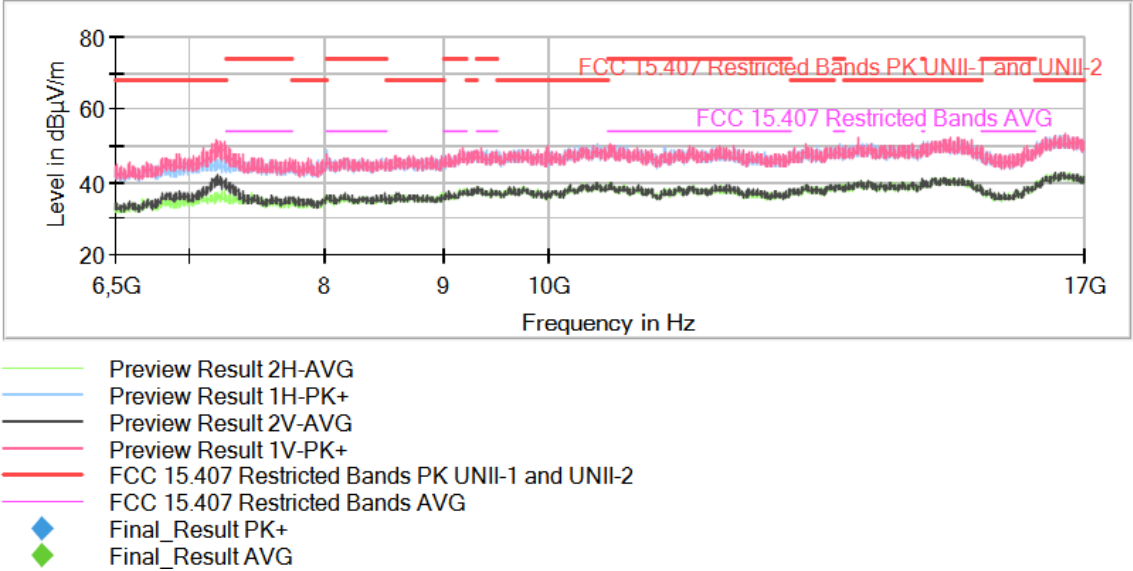
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	6,5 GHz - 17 GHz	350 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [6.5, 17] Frequency MHz = 5220.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = RU

Images:



Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	6,5 GHz - 17 GHz	350 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Operation Band MHz = [5150, 5250]

Active Port = 2+3

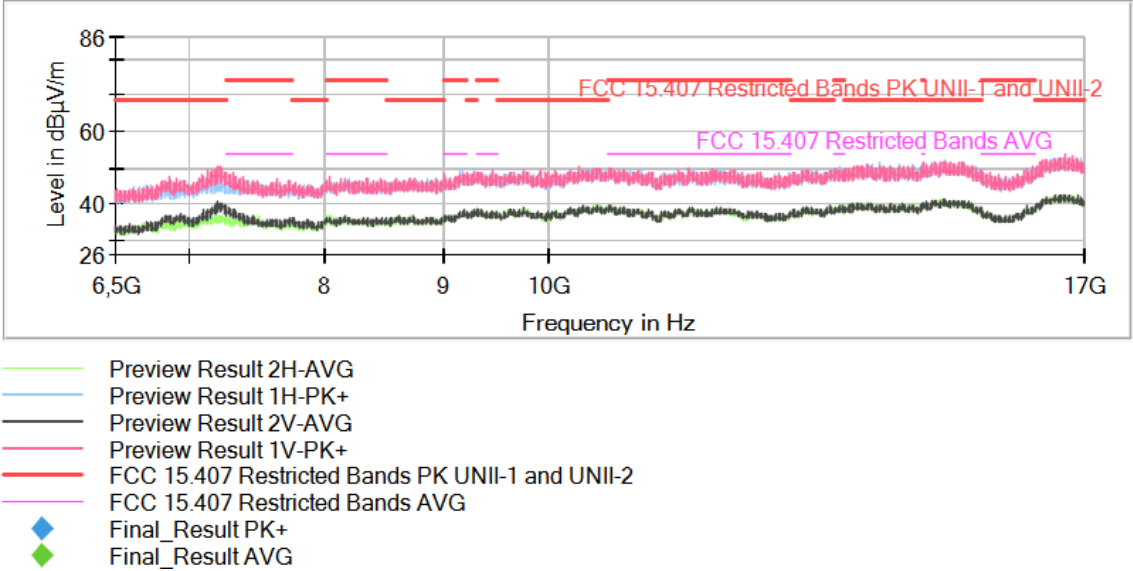
Frequency Range GHz = [6.5, 17]

Frequency MHz = 5240.00000

Modulation = 802.11ax HE20 (OFDMA MCS0)

Subcarrier Mode = RU

Images:



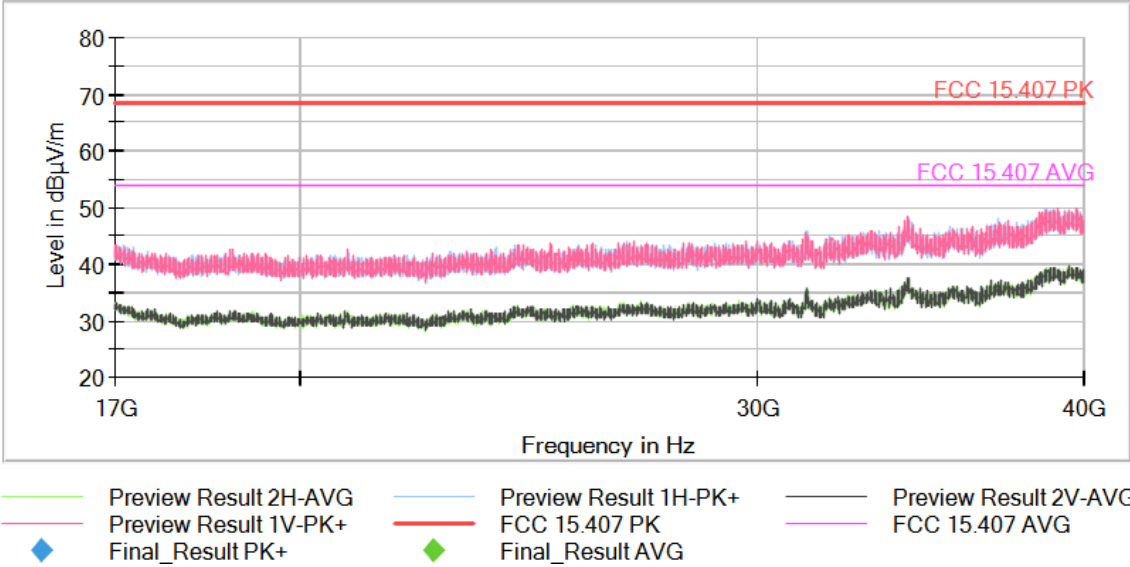
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	6,5 GHz - 17 GHz	350 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [17, 40] Frequency MHz = 5180.00000
Modulation = 802.11ax HE20 (OFDMA MCS0) Subcarrier Mode = RU

Images:



Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [FSV 40]					
	17 GHz - 40 GHz	718,75 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Modulation: 802.11ax HE40 (OFDMA MCS0)

Results

Operation Band (MHz)	Port	Freq Rng (GHz)	Freq (MHz)	Subcarrier Mode	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
[5150, 5250]	3	[0.03, 1]	5230.00000	RU	374.997	35.58	H	PK
					374.997	33.64	H	QP
					499.997	31.03	V	PK
					499.997	28.10	V	QP
					624.998	36.38	V	PK
					624.998	33.89	V	QP
					874.999	36.70	V	PK
					874.999	34.38	V	QP

Verdict

Pass

Attachments

Operation Band MHz = [5150, 5250]

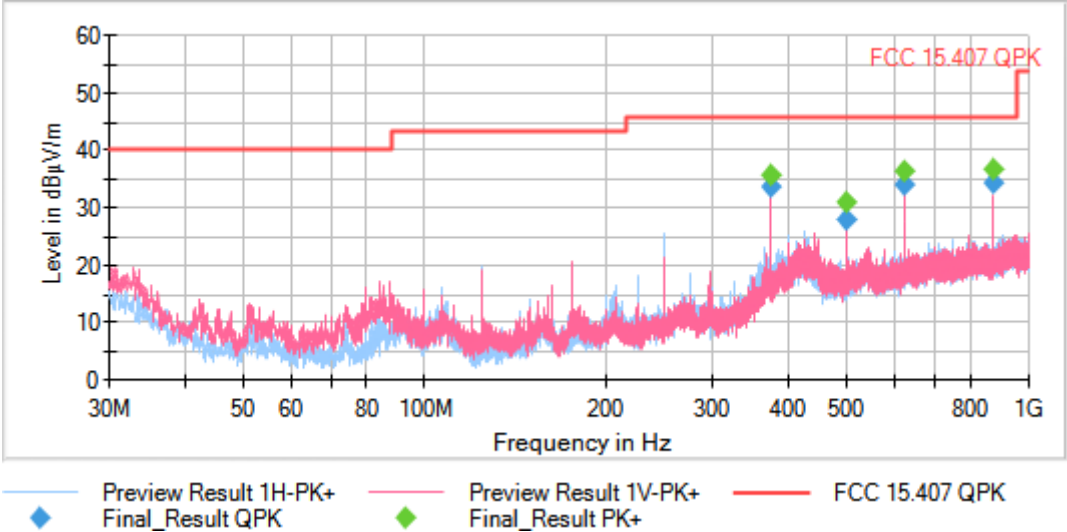
Active Port = 3

Frequency Range GHz = [0.03, 1]

The spurious frequencies detected do not depend on the transmission channel or the Modulation

Subcarrier Mode = RU

Images:

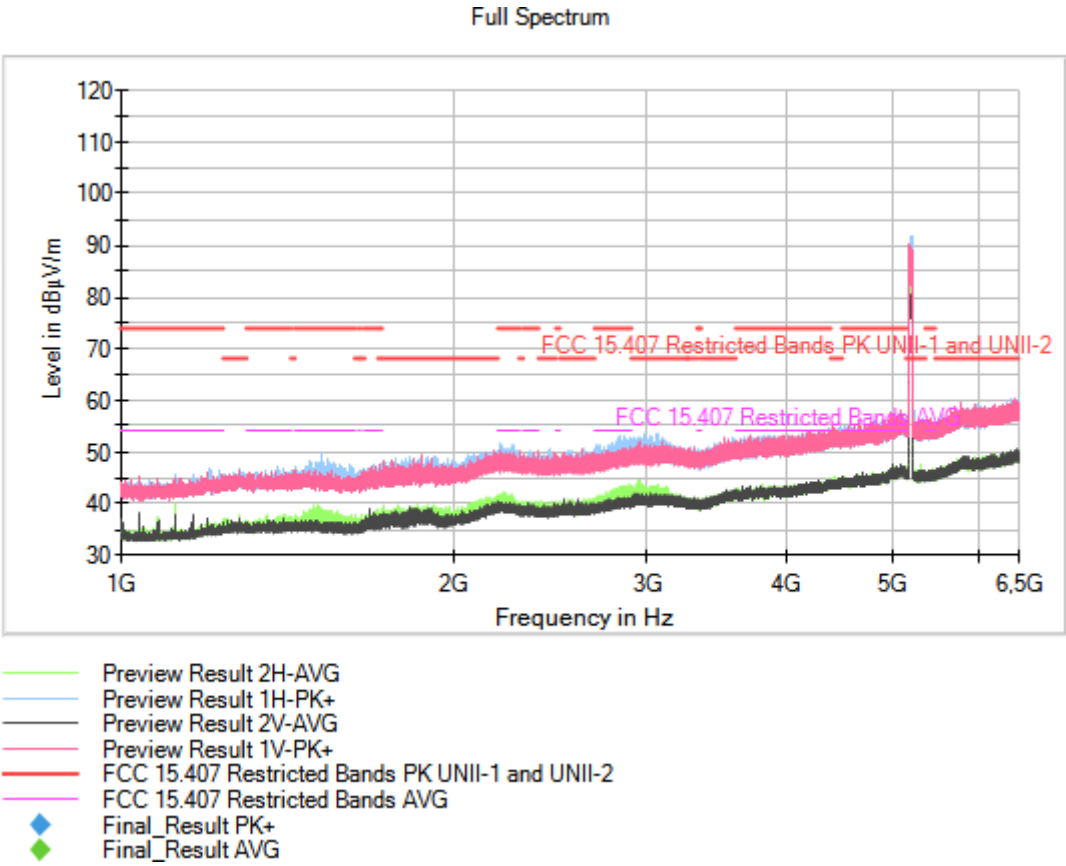


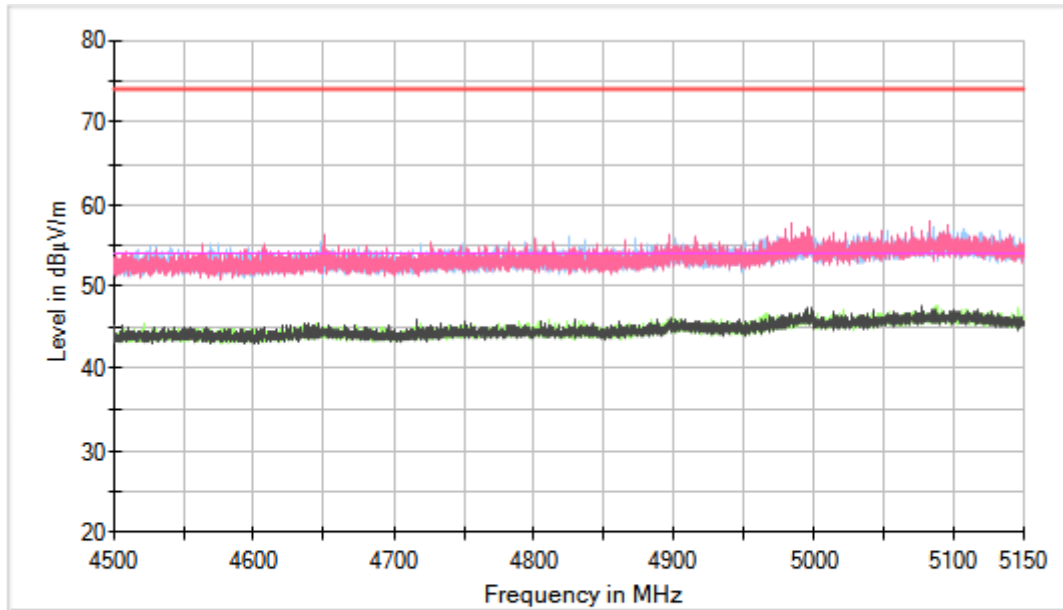
Tables:
Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	30 MHz - 1 GHz	32,333 kHz	PK+	100 kHz	Coupled	0 dB

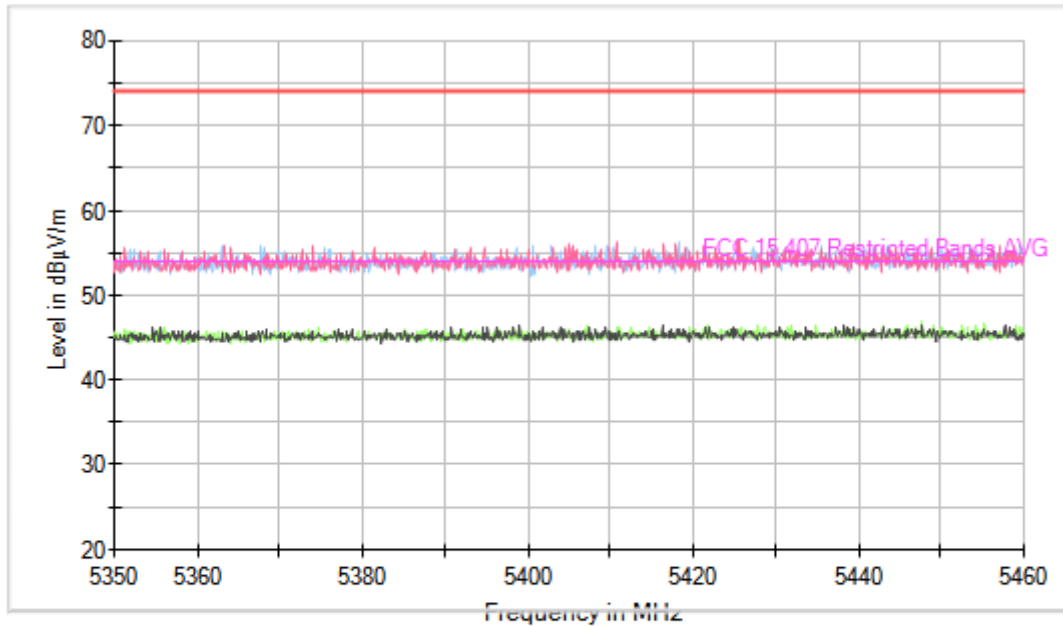
Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5190.00000
Modulation = 802.11ax HE40 (OFDMA MCS0) Subcarrier Mode = SU

Images:





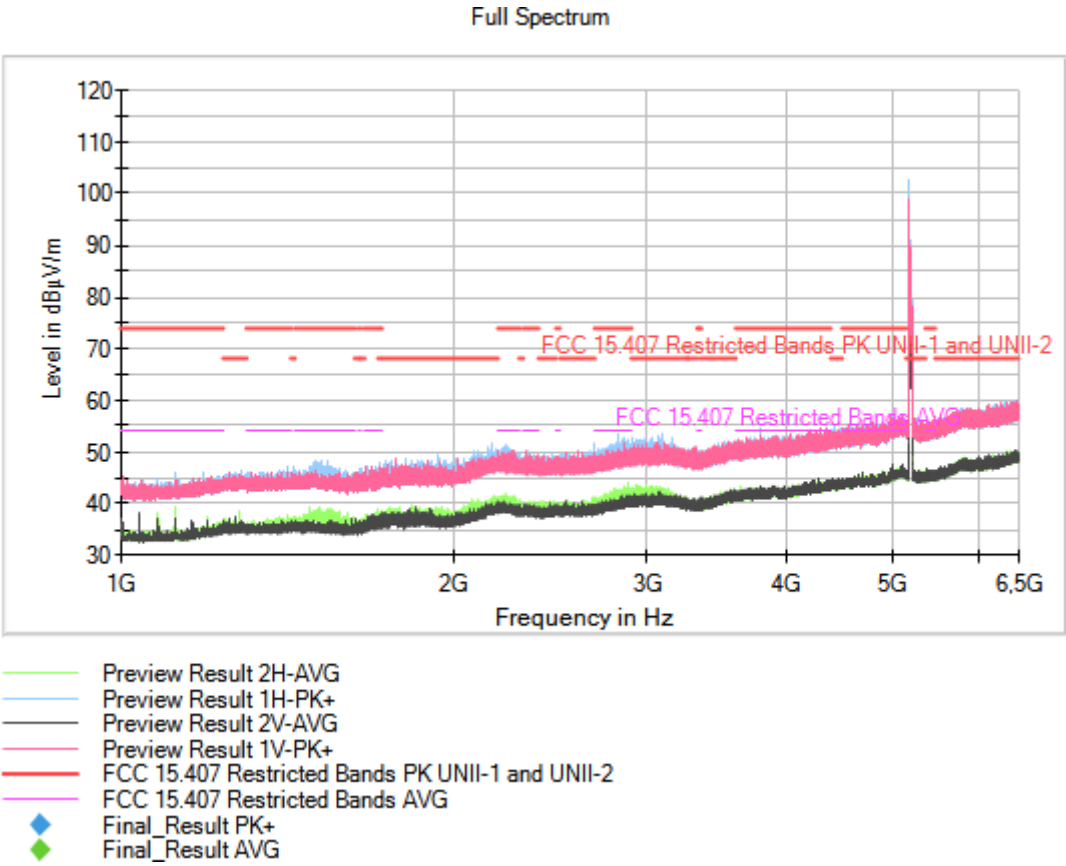
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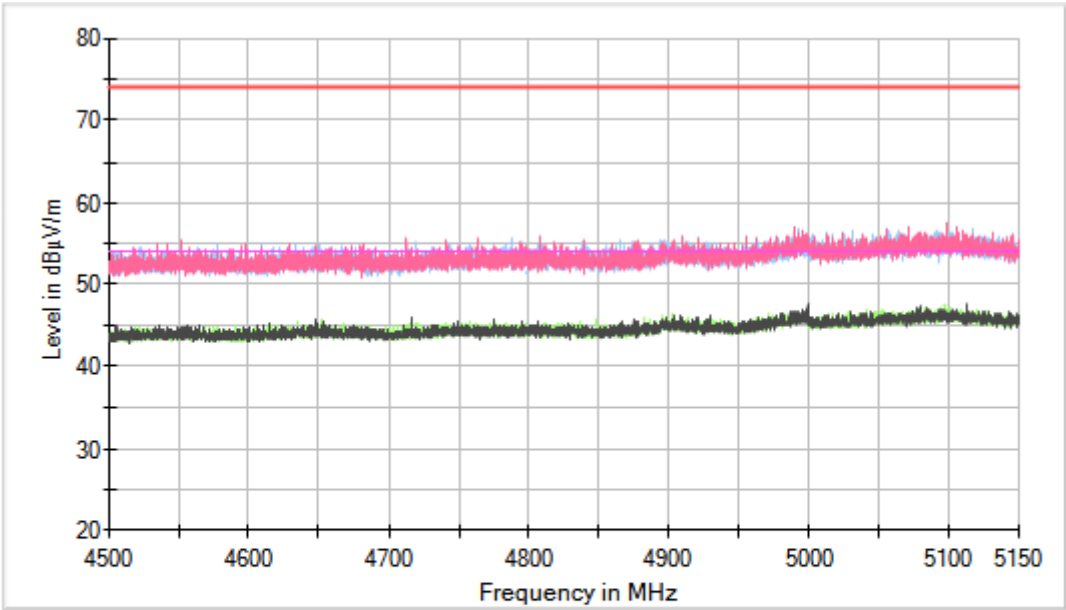


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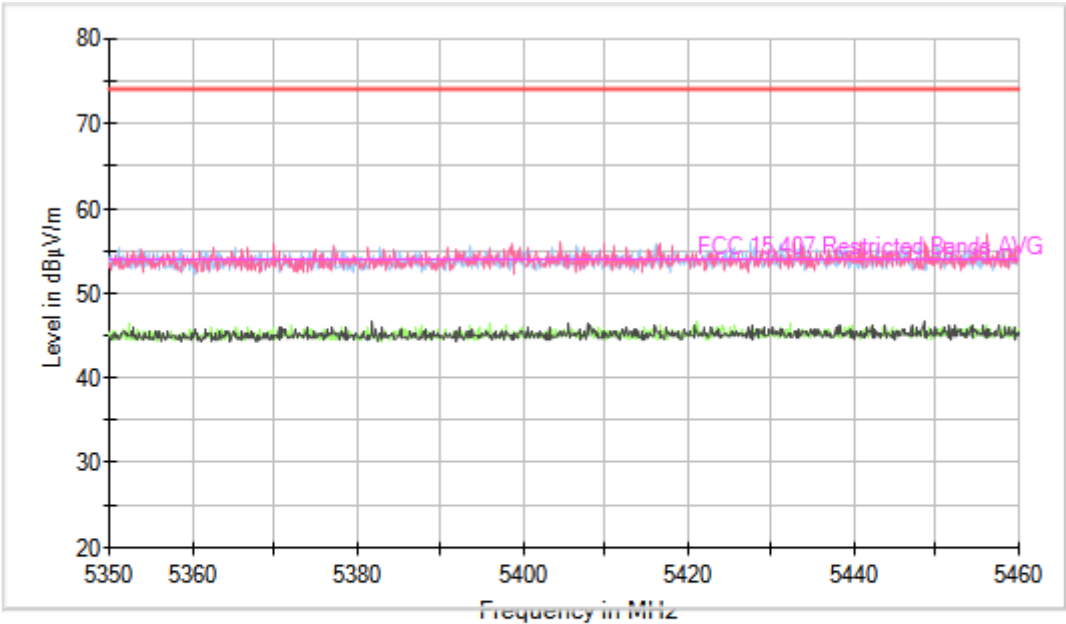
Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5190.00000
Modulation = 802.11ax HE40 (OFDMA MCS0) Subcarrier Mode = RU

Images:





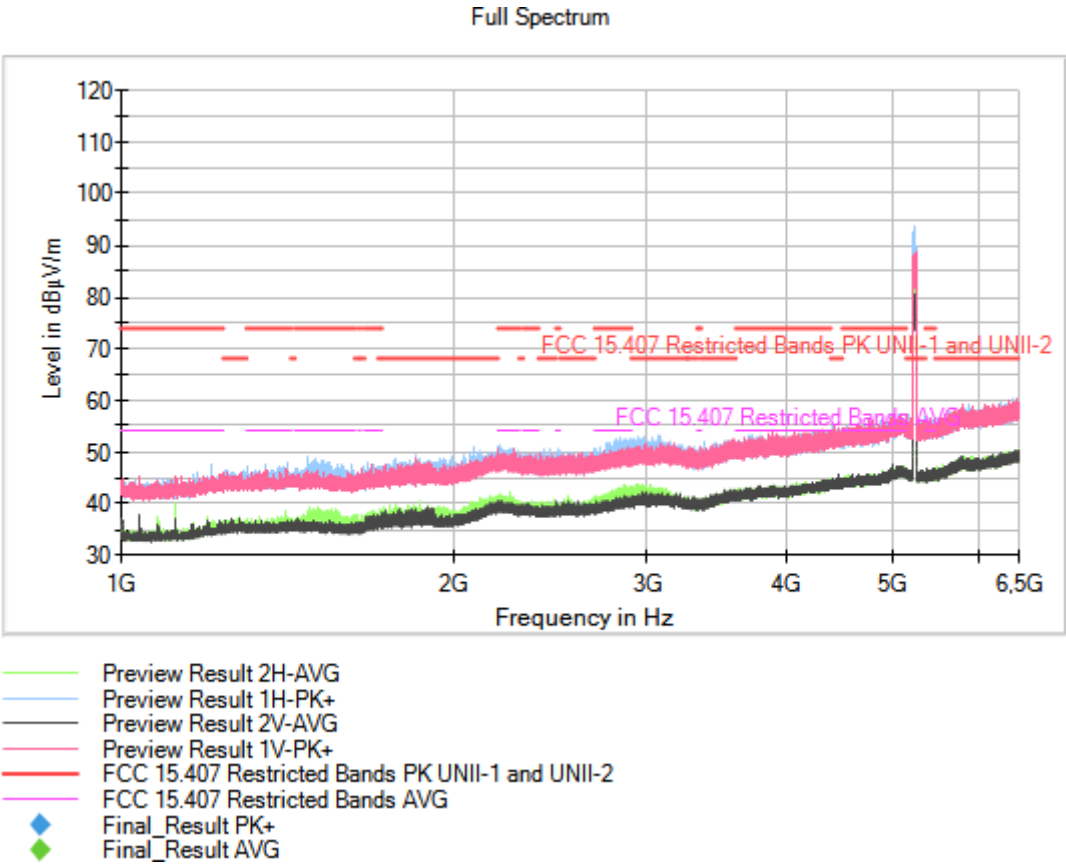
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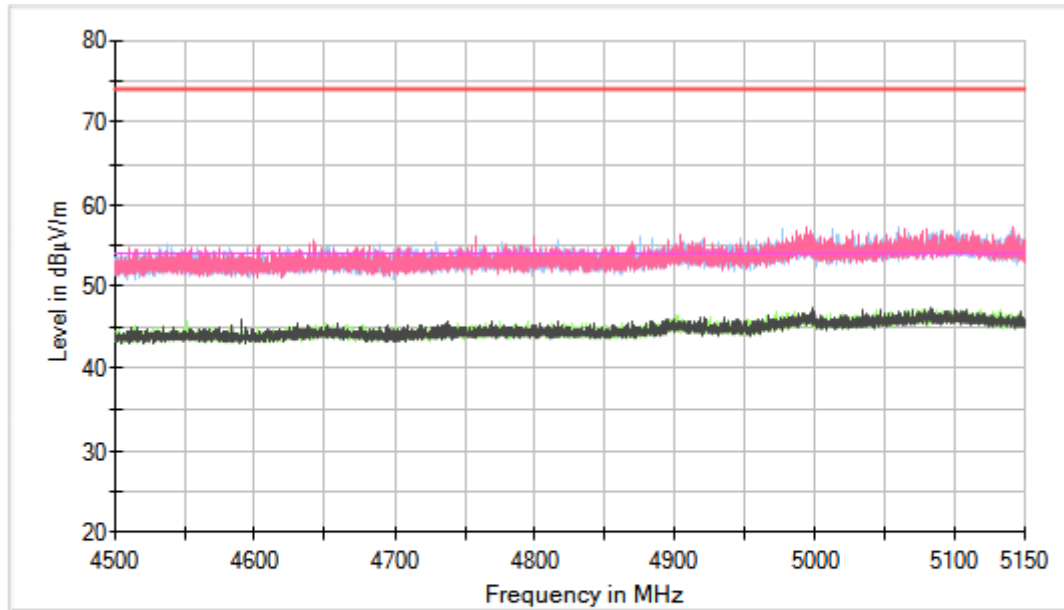


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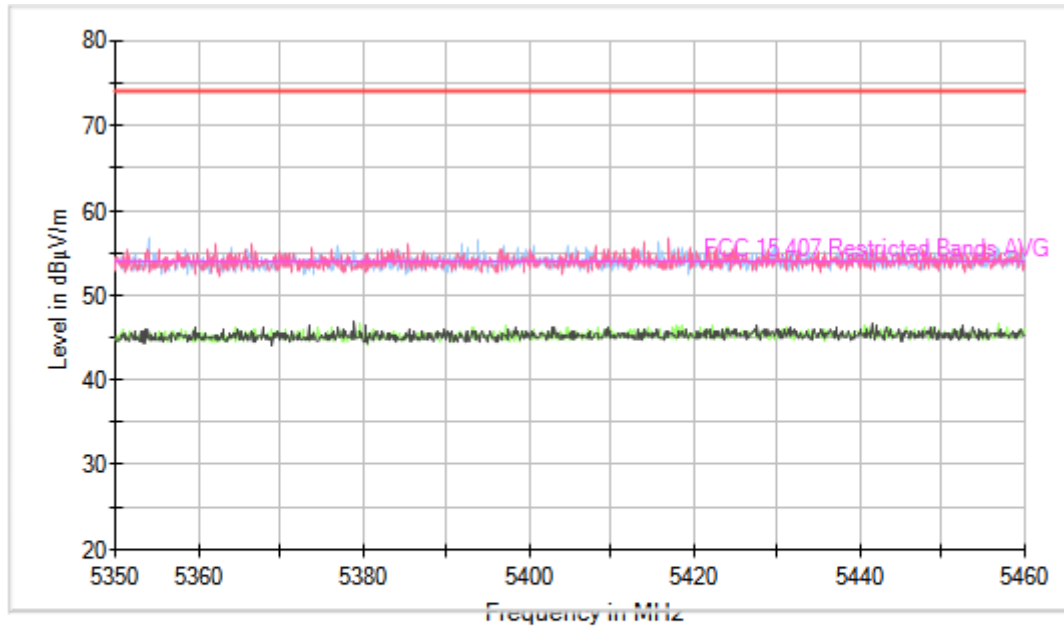
Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5230.00000
Modulation = 802.11ax HE40 (OFDMA MCS0) Subcarrier Mode = SU

Images:





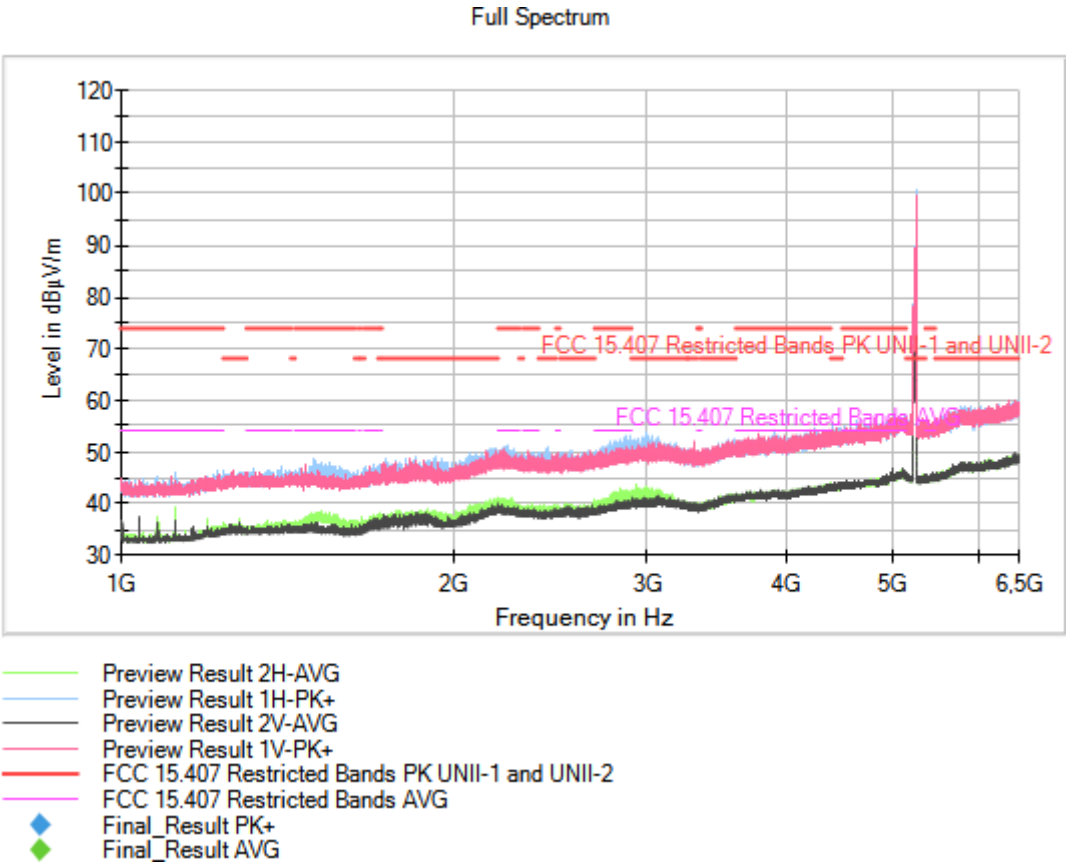
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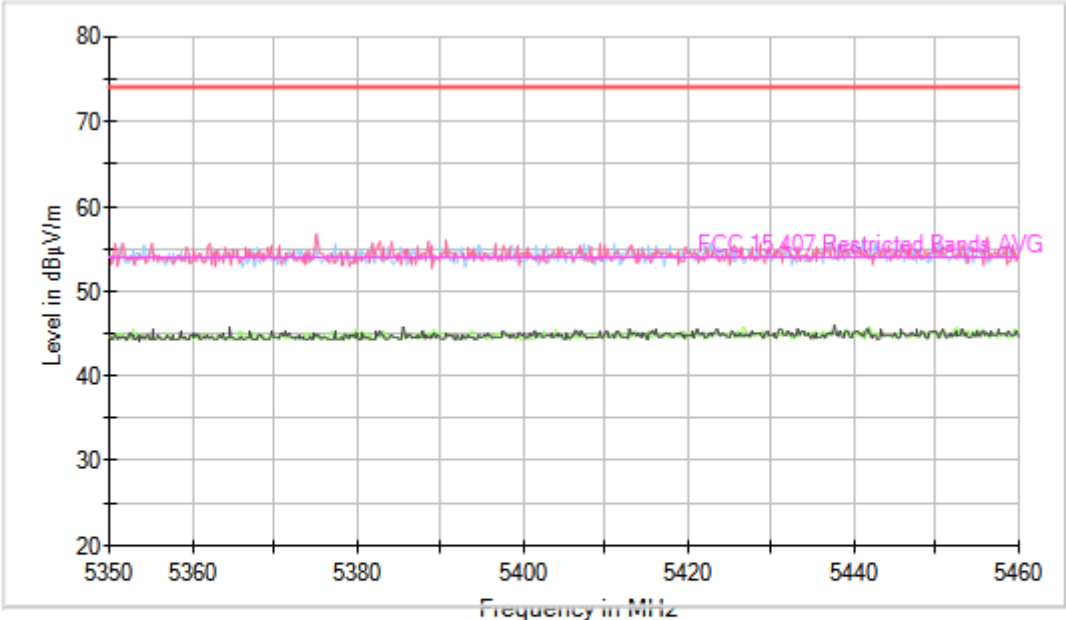
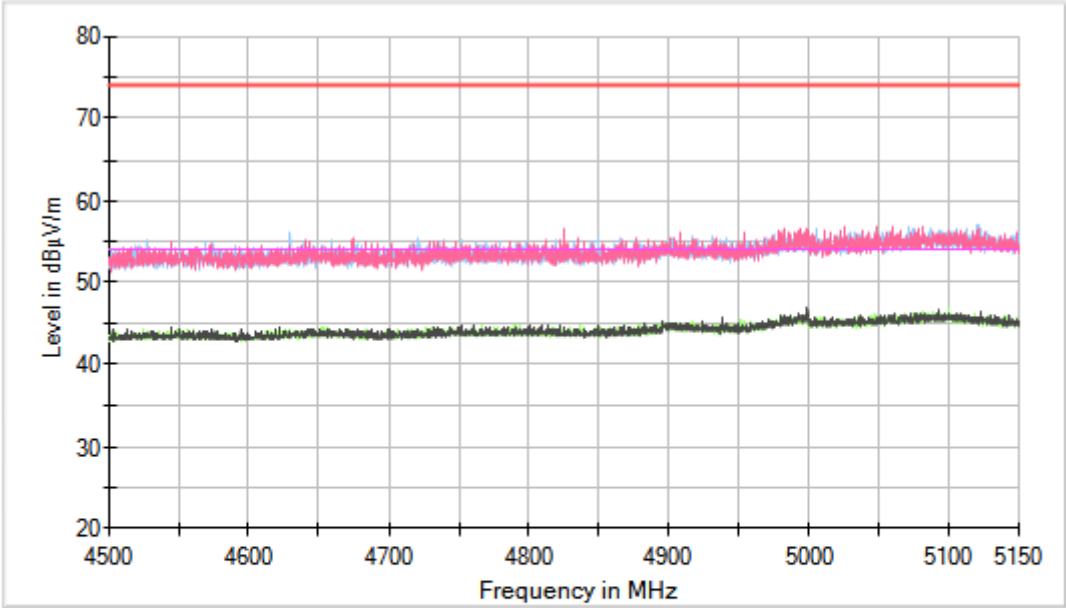


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Frequency Range GHz = [1, 6.5] Frequency MHz = 5230.00000
Modulation = 802.11ax HE40 (OFDMA MCS0) Subcarrier Mode = RU

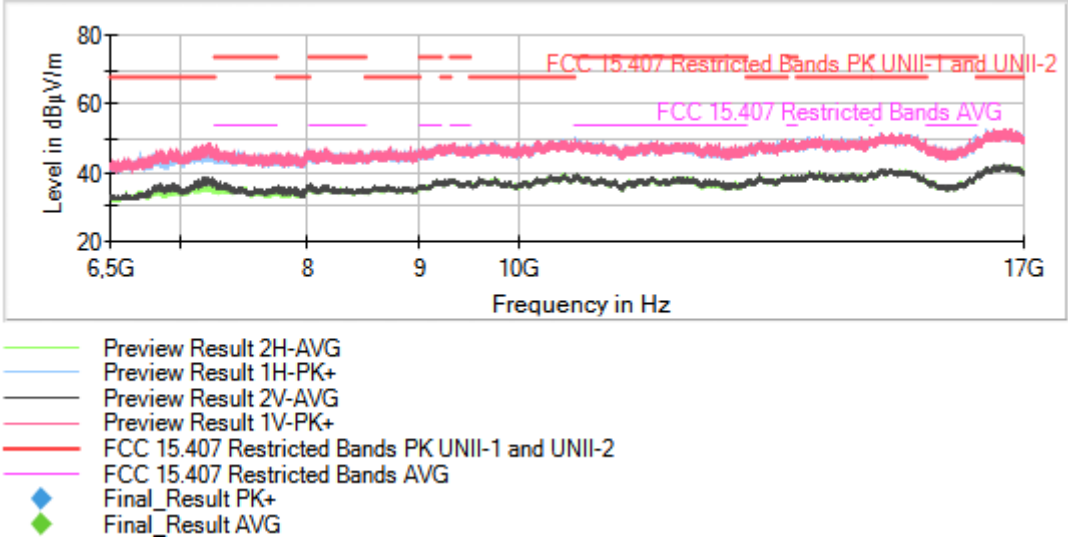
Images:





Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [6.5, 17] Frequency MHz = 5190.00000
Modulation = 802.11ax HE40 (OFDMA MCS0) Subcarrier Mode = RU

Images:



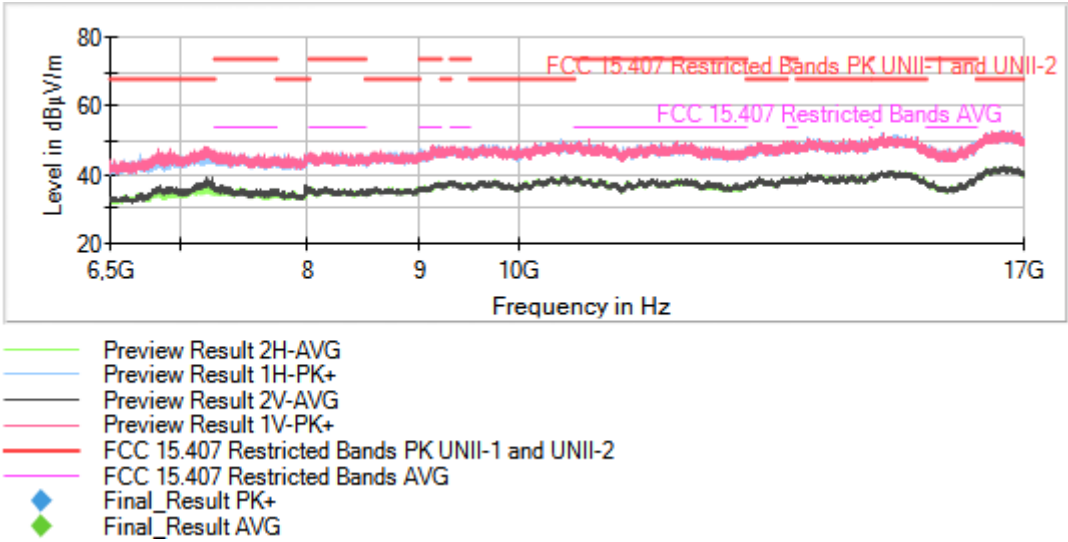
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	6,5 GHz - 17 GHz	350 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Operation Band MHz = [5150, 5250] Active Port = 3
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Images:



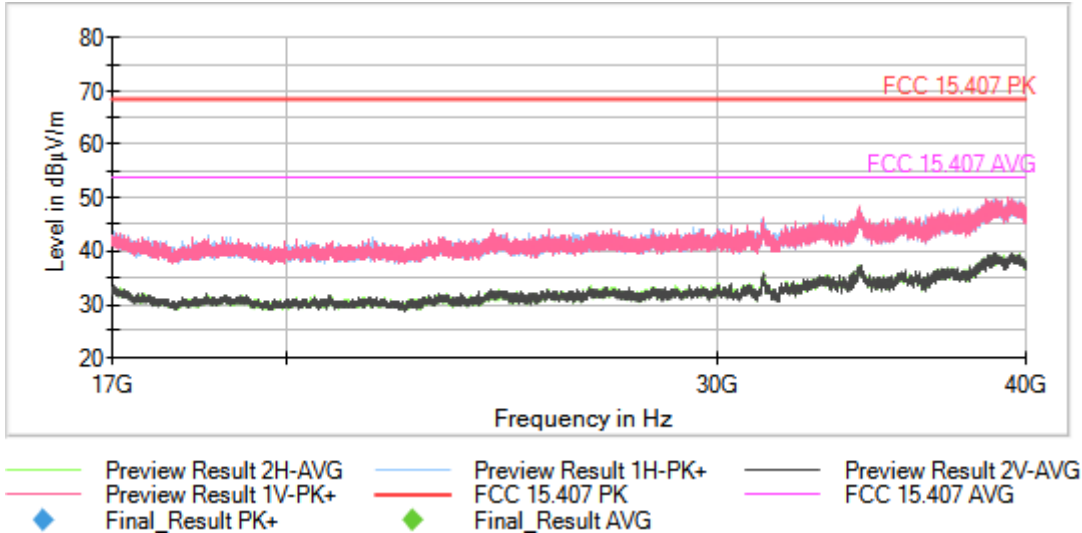
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Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	6,5 GHz - 17 GHz	350 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Operation Band MHz = [5150, 5250] Active Port = 3
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Images:



Tables:

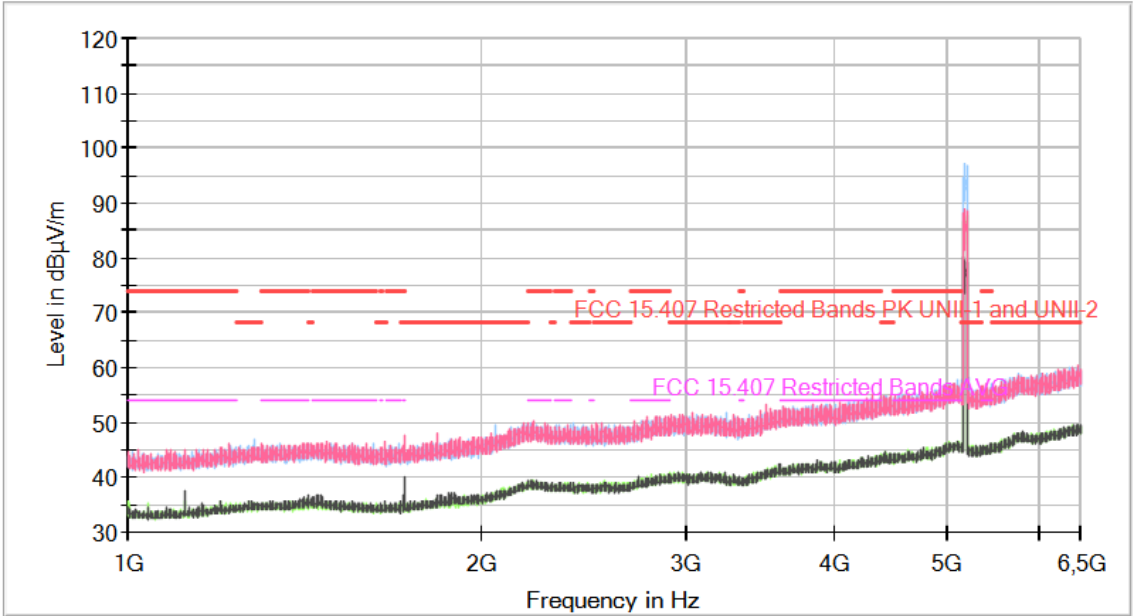
Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [FSV 40]					
	17 GHz - 40 GHz	718,75 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

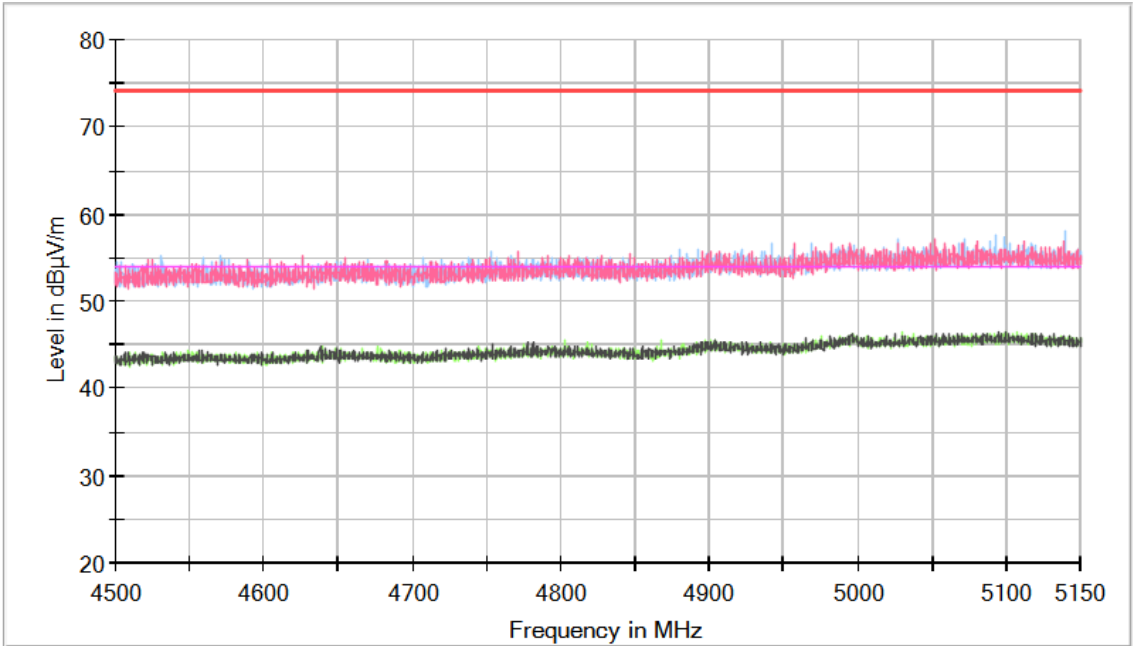
Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5190.00000
Modulation = 802.11ax HE40 (OFDMA MCS0) Subcarrier Mode = SU

Images:

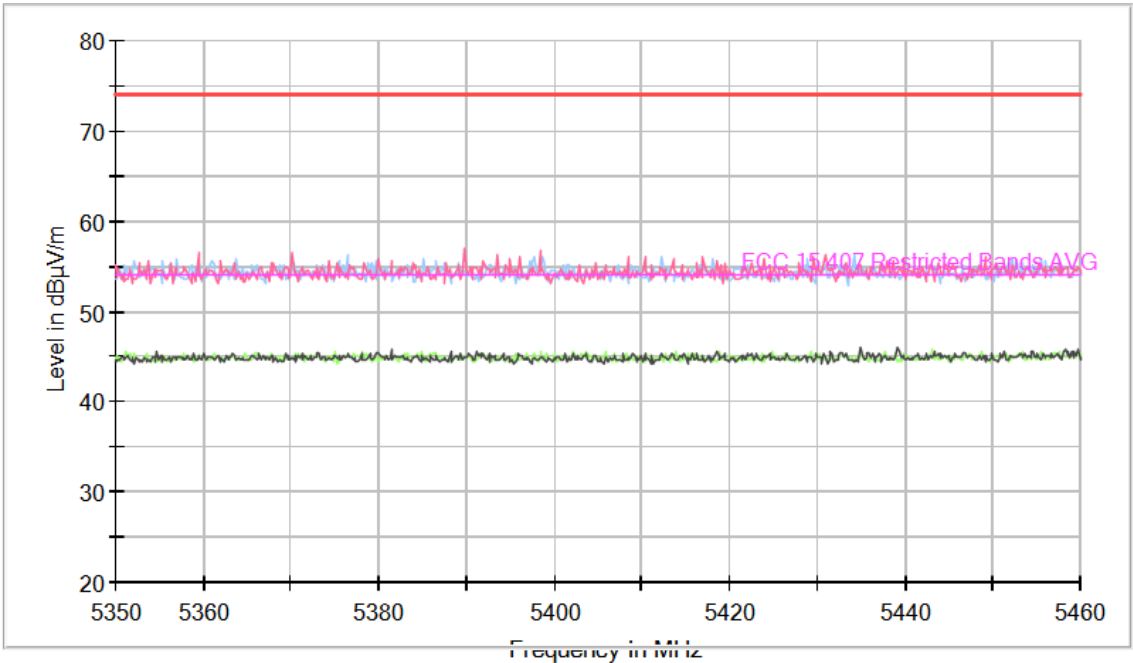
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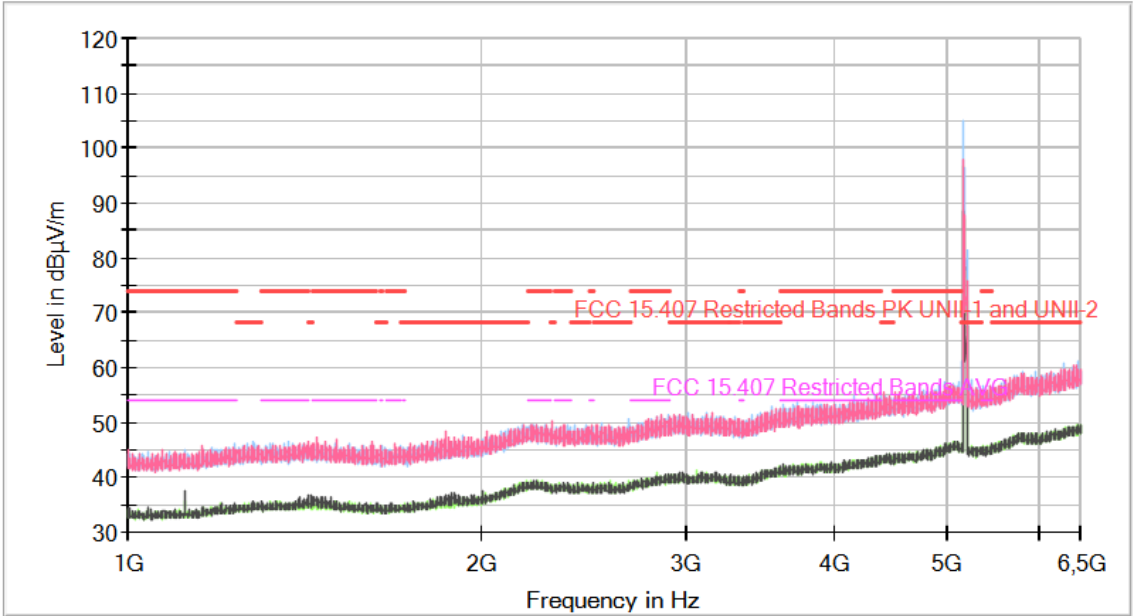


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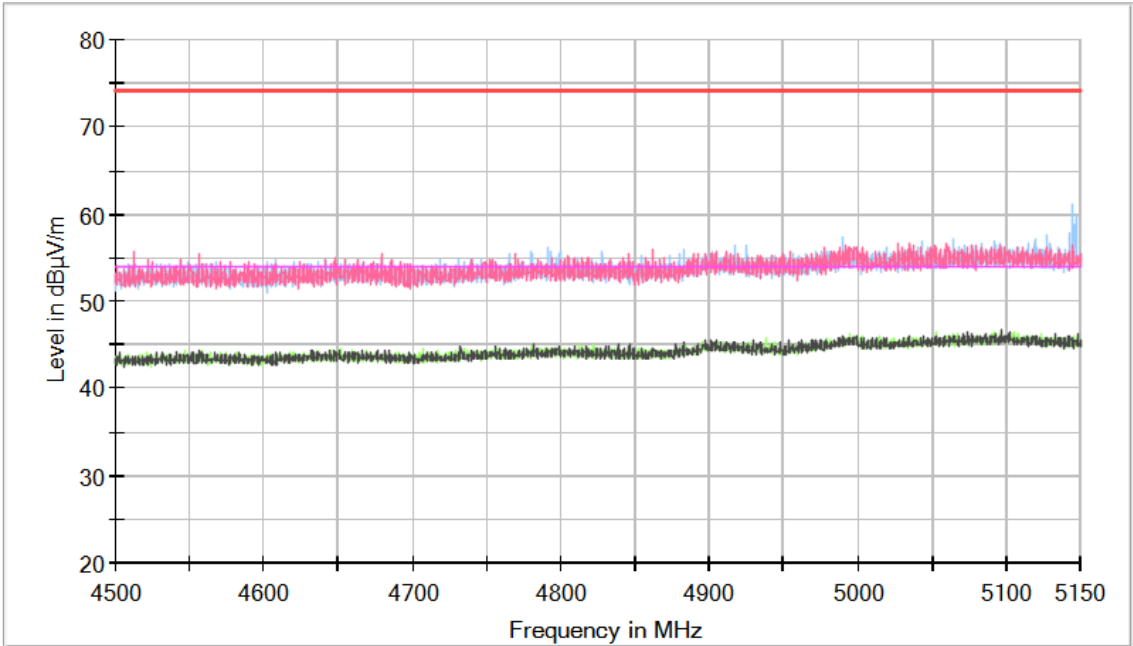
Operation Band MHz = [5150, 5250] Active Port = 2+3
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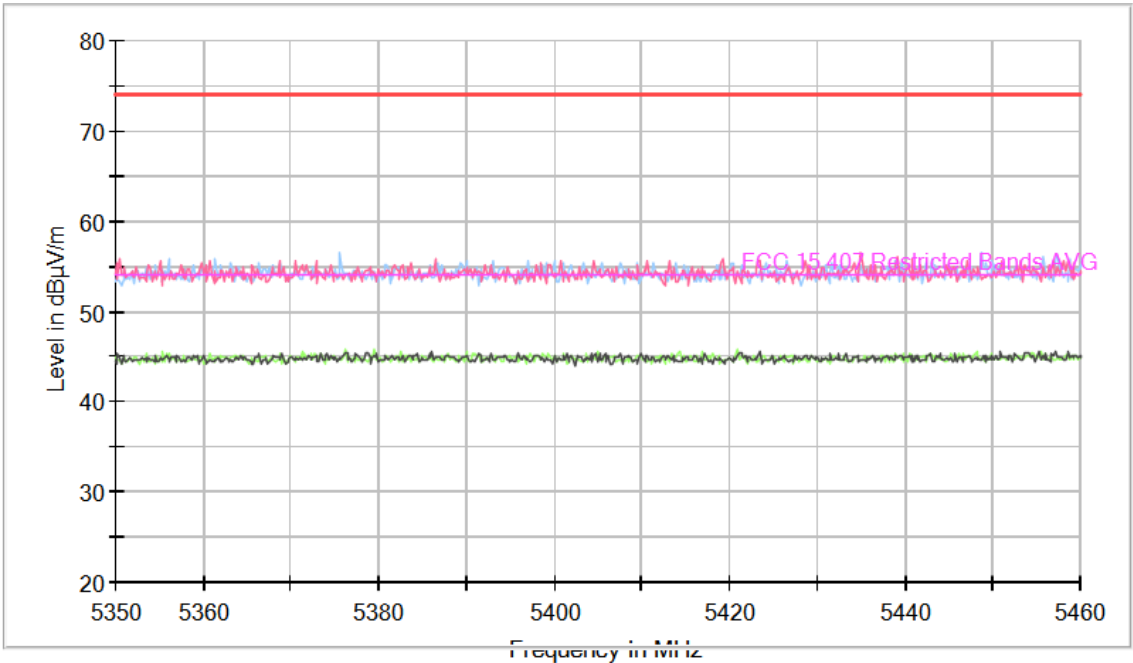
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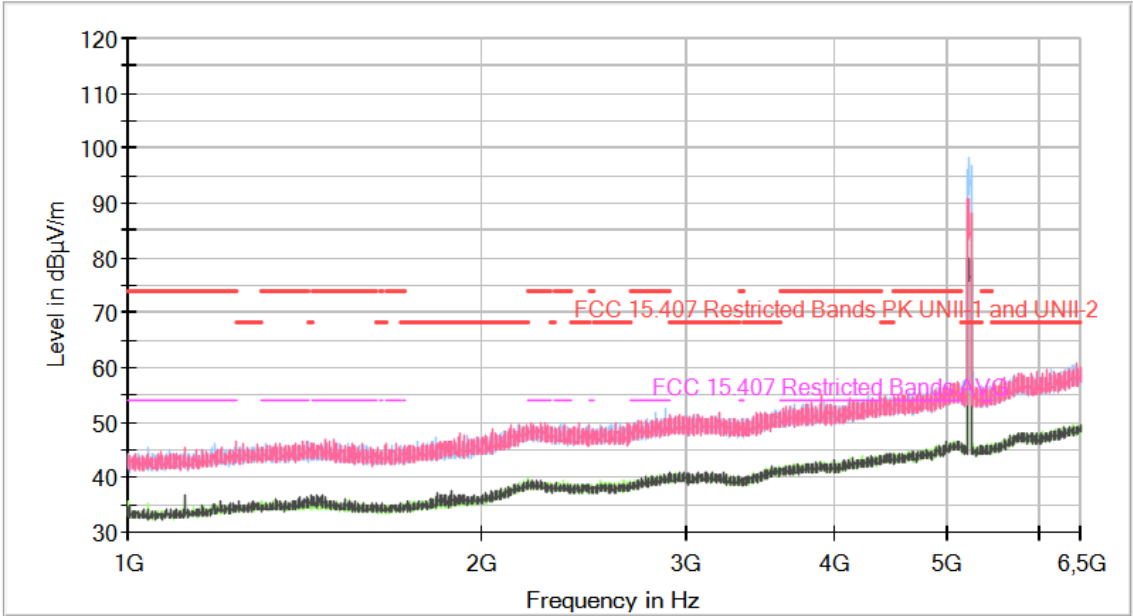


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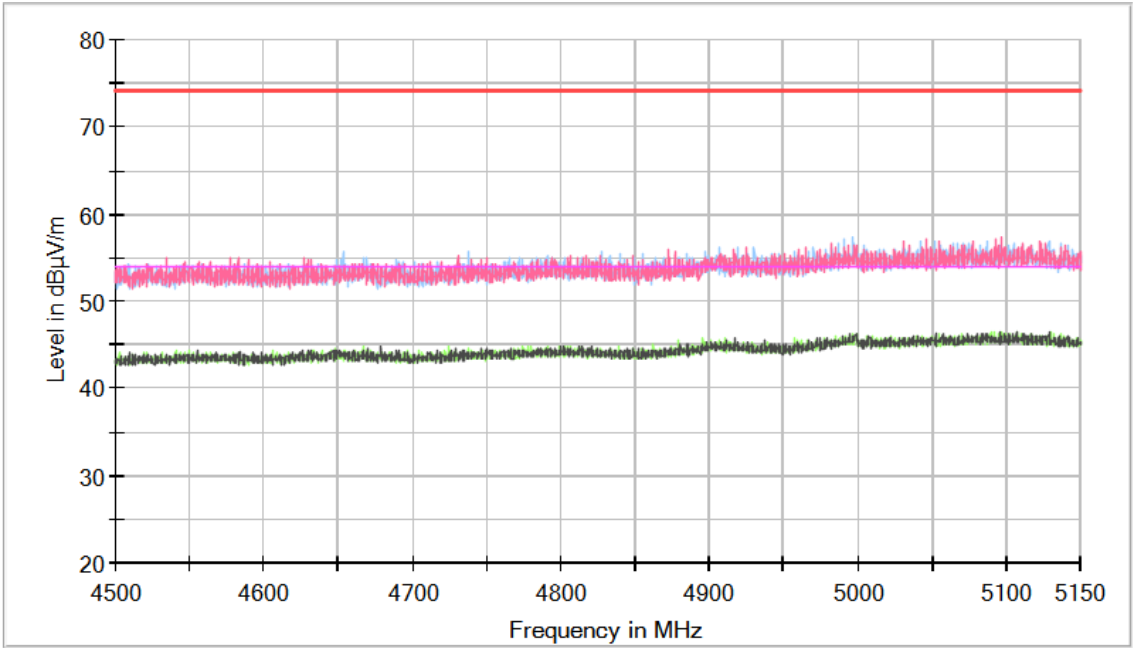
Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5230.00000
Modulation = 802.11ax HE40 (OFDMA MCS0) Subcarrier Mode = SU

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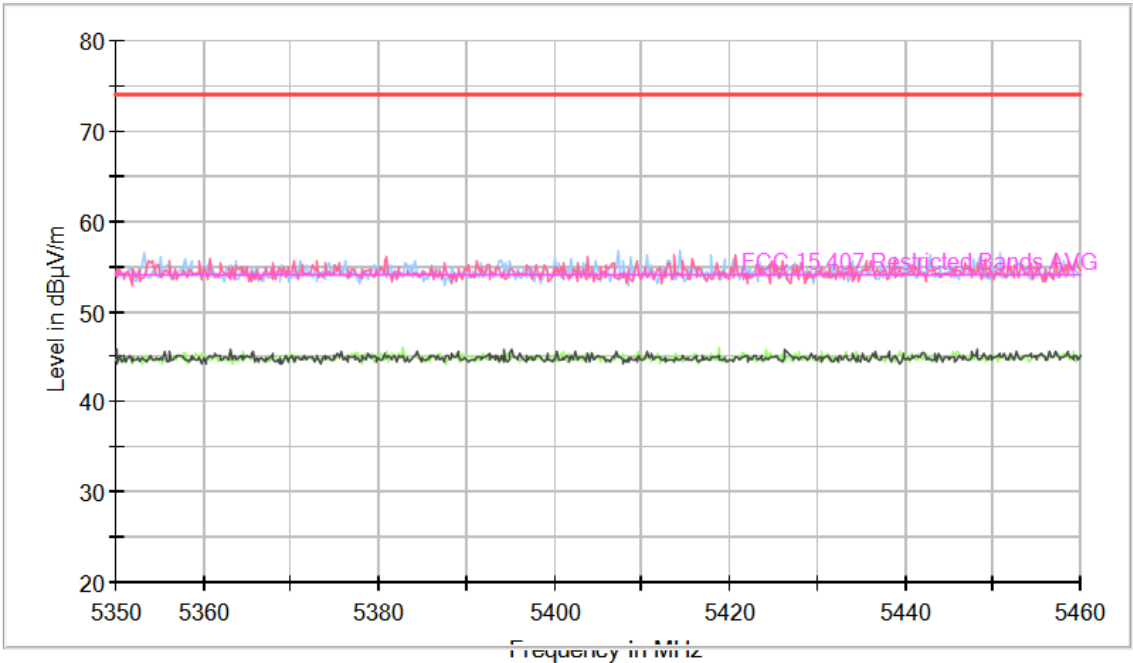
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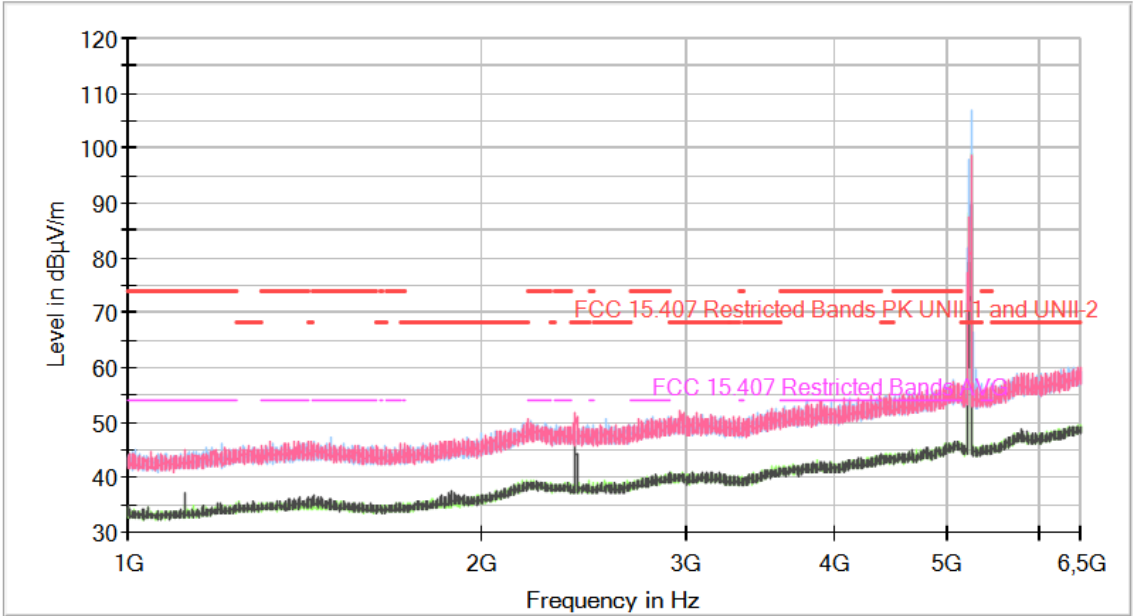


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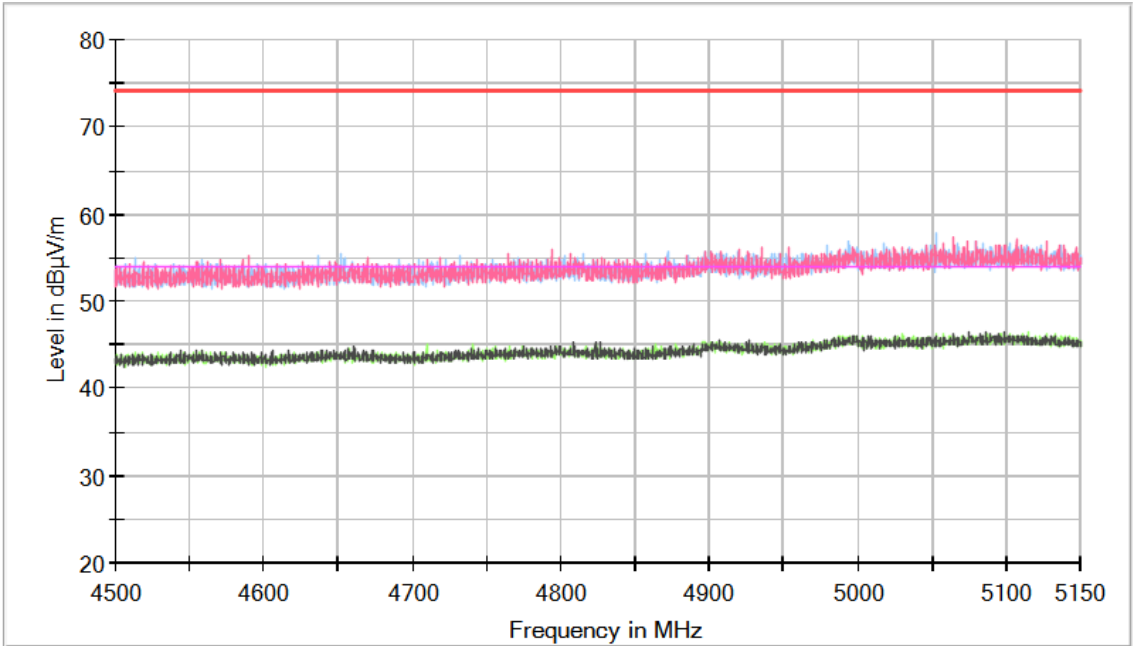
Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5230.00000
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Images:

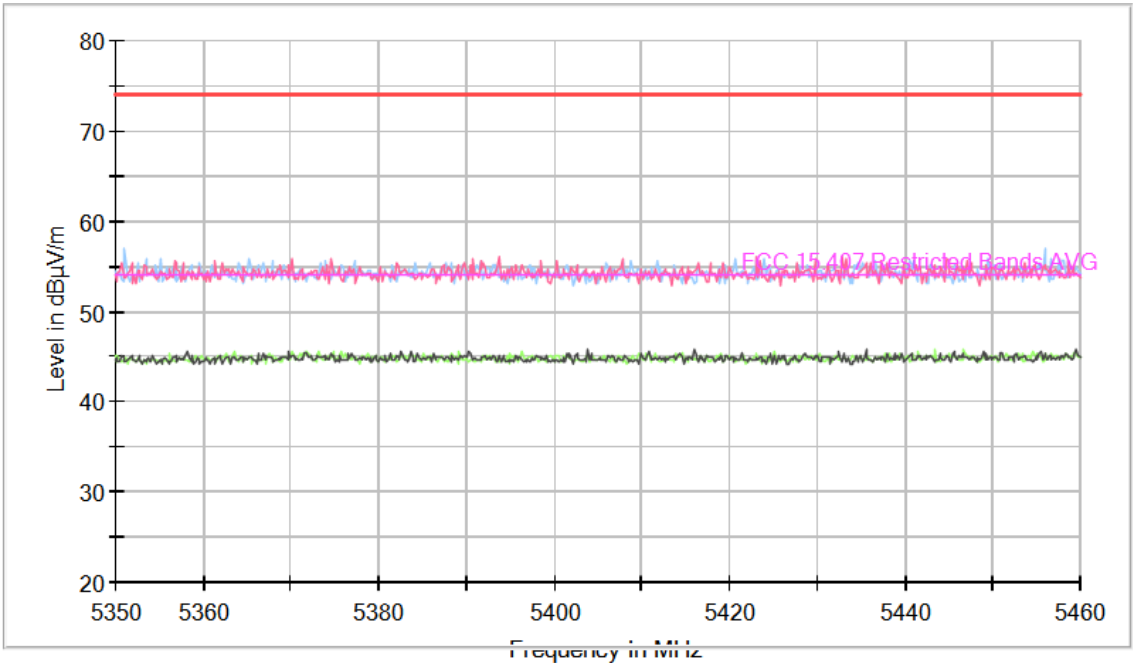
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- Final_Result AVG



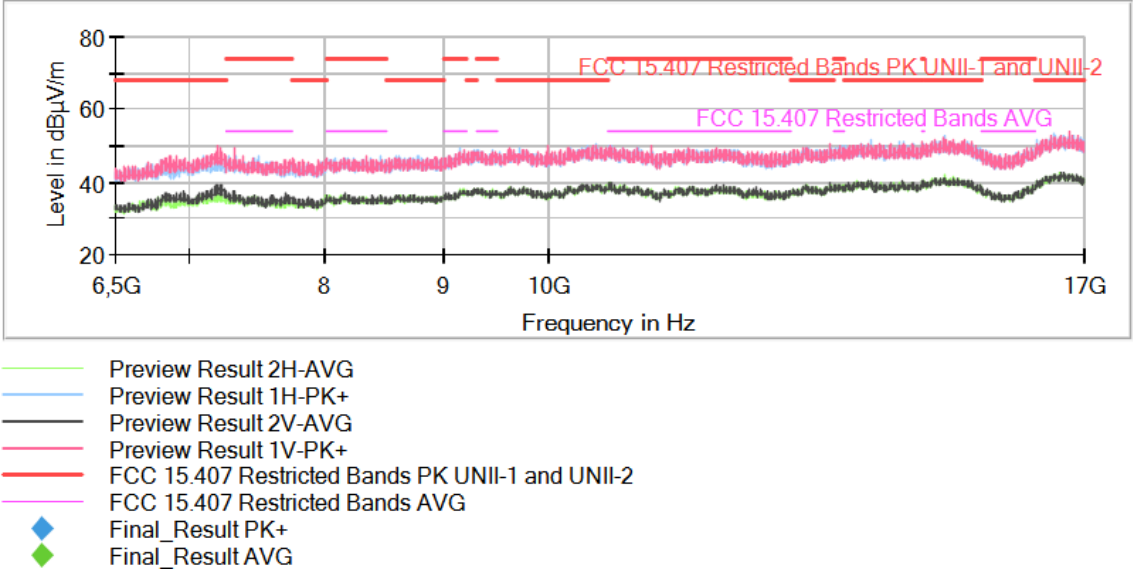
- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final Result PK+
- Final Result AVG



- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final Result PK+
- Final Result AVG

Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [6.5, 17] Frequency MHz = 5180.00000
Modulation = 802.11ax HE40 (OFDMA MCS0) Subcarrier Mode = RU

Images:



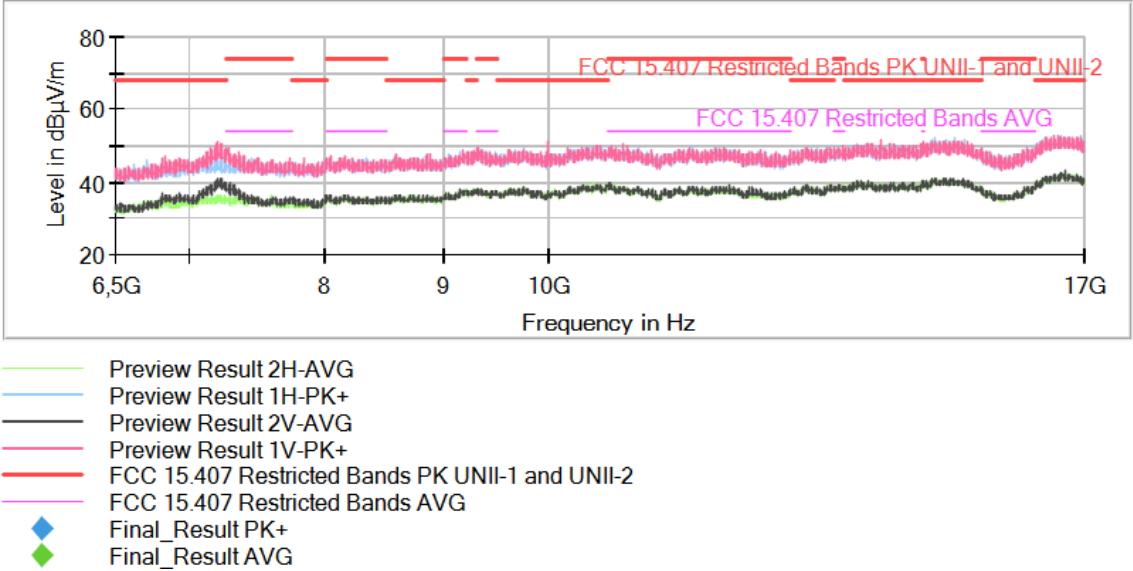
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	6,5 GHz - 17 GHz	350 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [6.5, 17] Frequency MHz = 5240.00000
Modulation = 802.11ax HE40 (OFDMA MCS0) Subcarrier Mode = RU

Images:



Tables:
Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	6,5 GHz - 17 GHz	350 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Modulation: 802.11ax HE80 (OFDMA MCS0)

Results

Operation Band (MHz)	Port	Freq Rng (GHz)	Freq (MHz)	Subcarrier Mode	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
[5150, 5250]	2+3	[1, 6.5]	5210.00000	SU	5143.883	60.19	H	PK
					5143.883	45.38	H	AVG

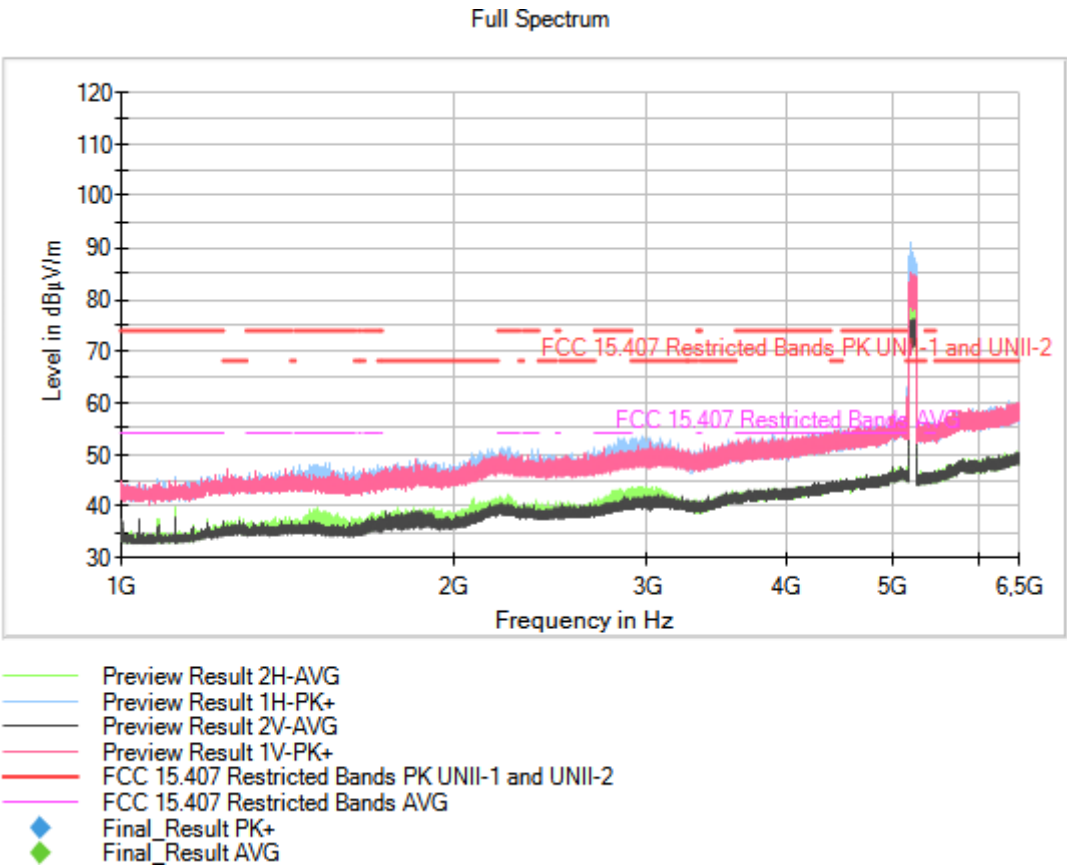
Verdict

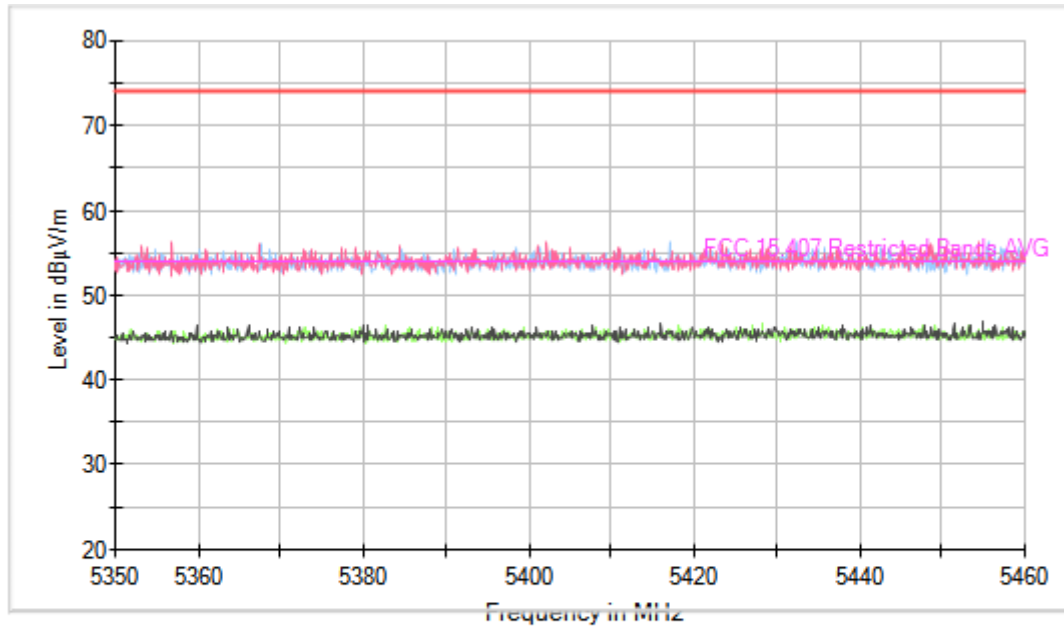
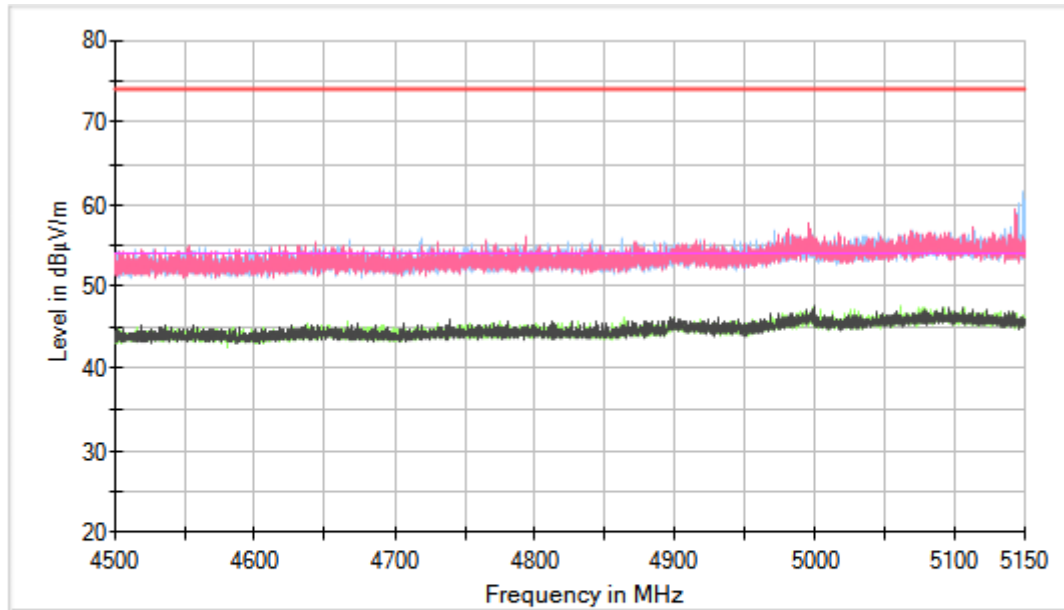
Pass

Attachments

Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5210.00000
Modulation = 802.11ax HE80 (OFDMA MCS0) Subcarrier Mode = SU

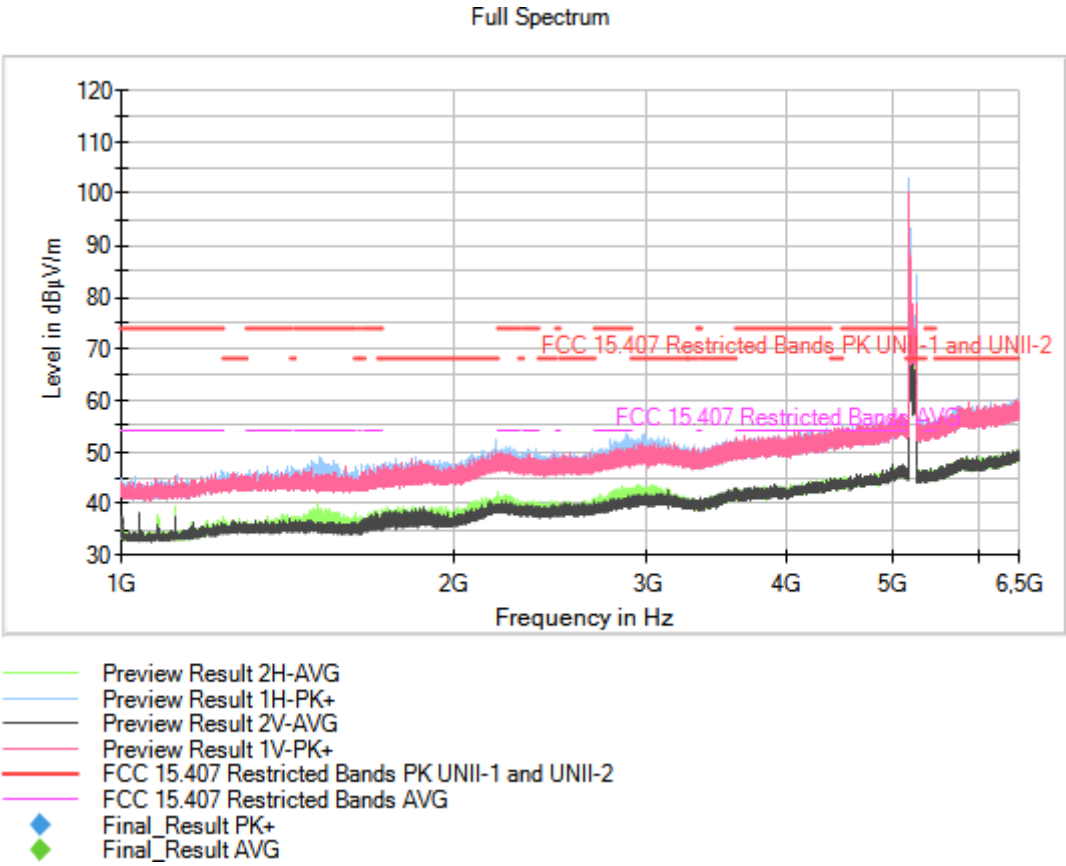
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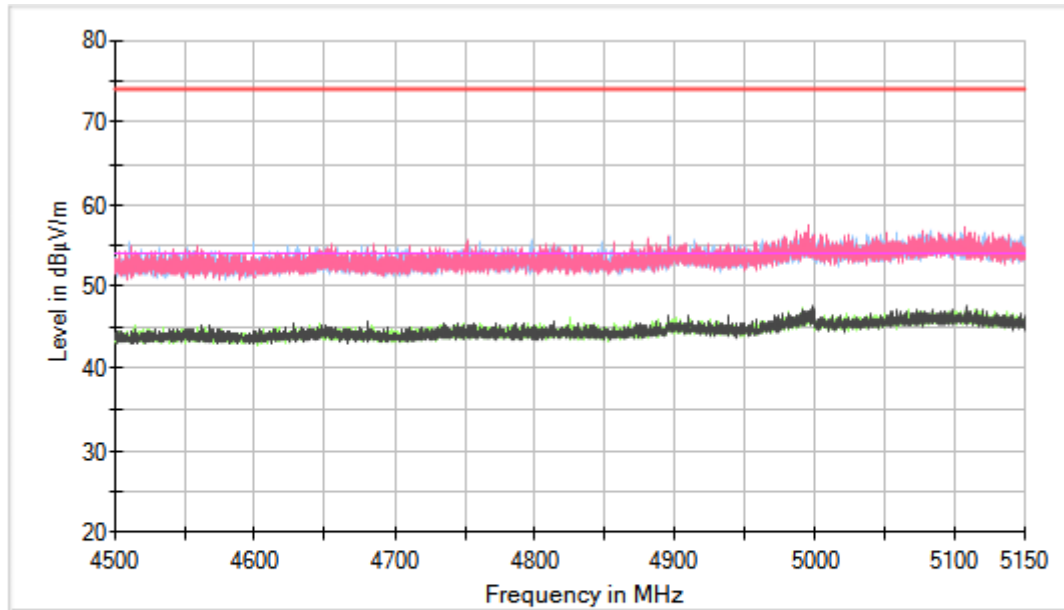




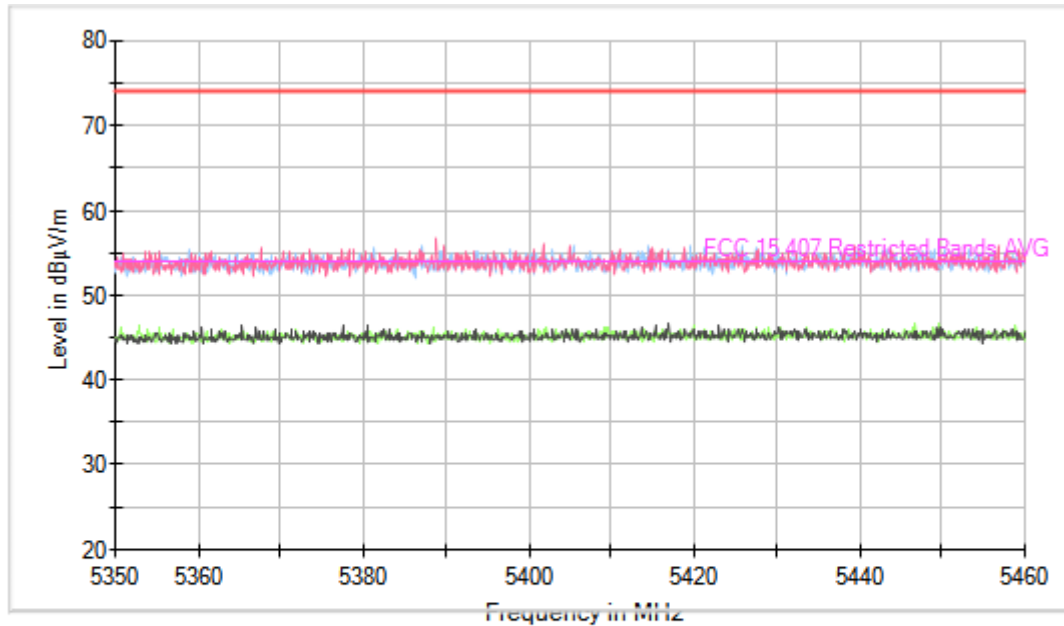
Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5210.00000
Modulation = 802.11ax HE80 (OFDMA MCS0) Subcarrier Mode = RU

Images:





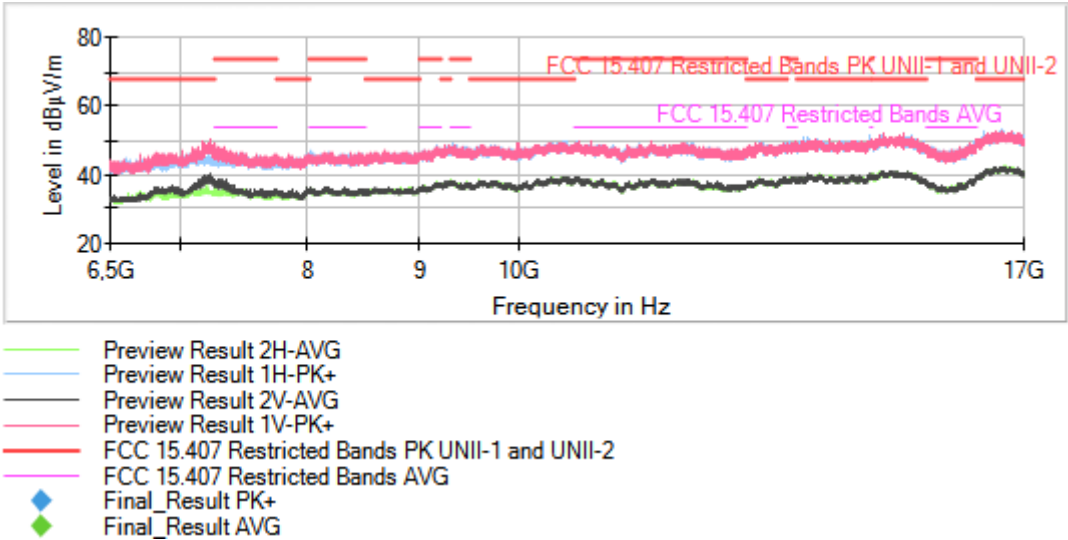
- Preview Result 2H-AVG
- Preview Result 1H-PK+
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- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
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- Final_Result PK+
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- Preview Result 2V-AVG
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- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
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Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [6.5, 17] Frequency MHz = 5210.00000
Modulation = 802.11ax HE80 (OFDMA MCS0) Subcarrier Mode = RU

Images:



Tables:

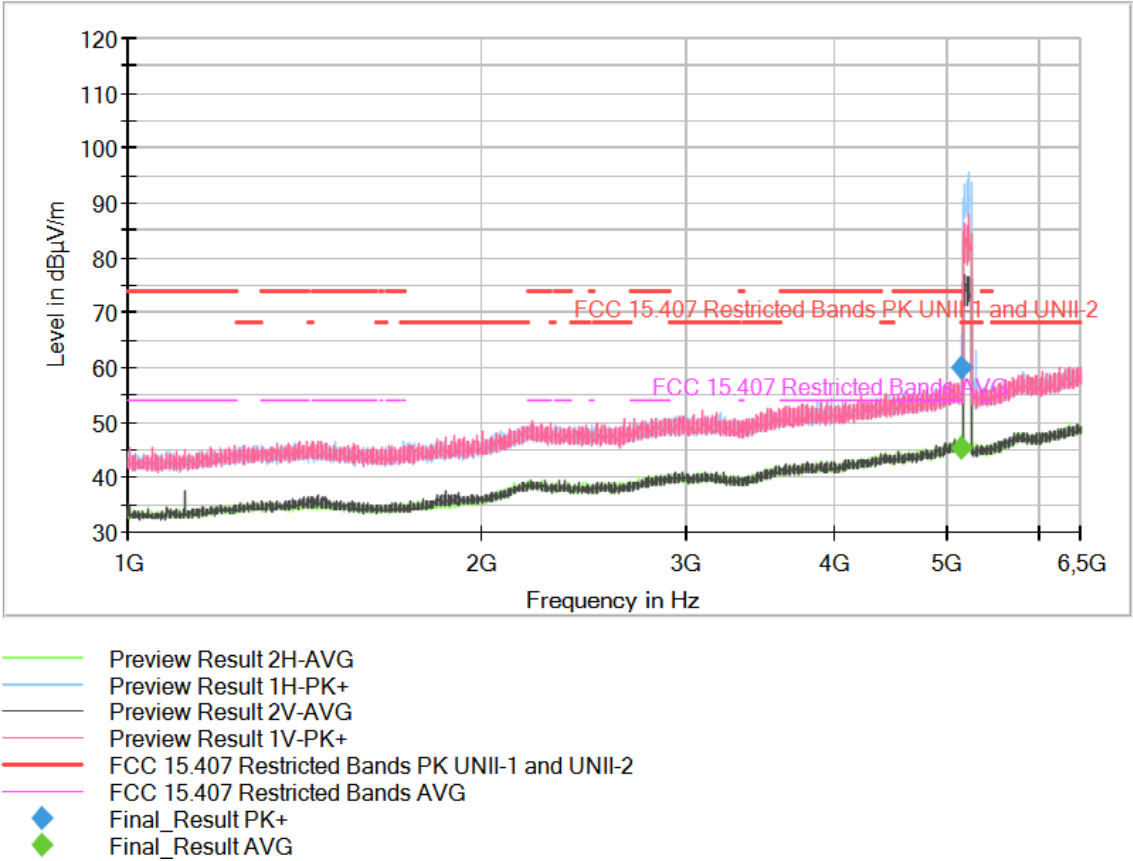
Spectrum Analyzer Parameters

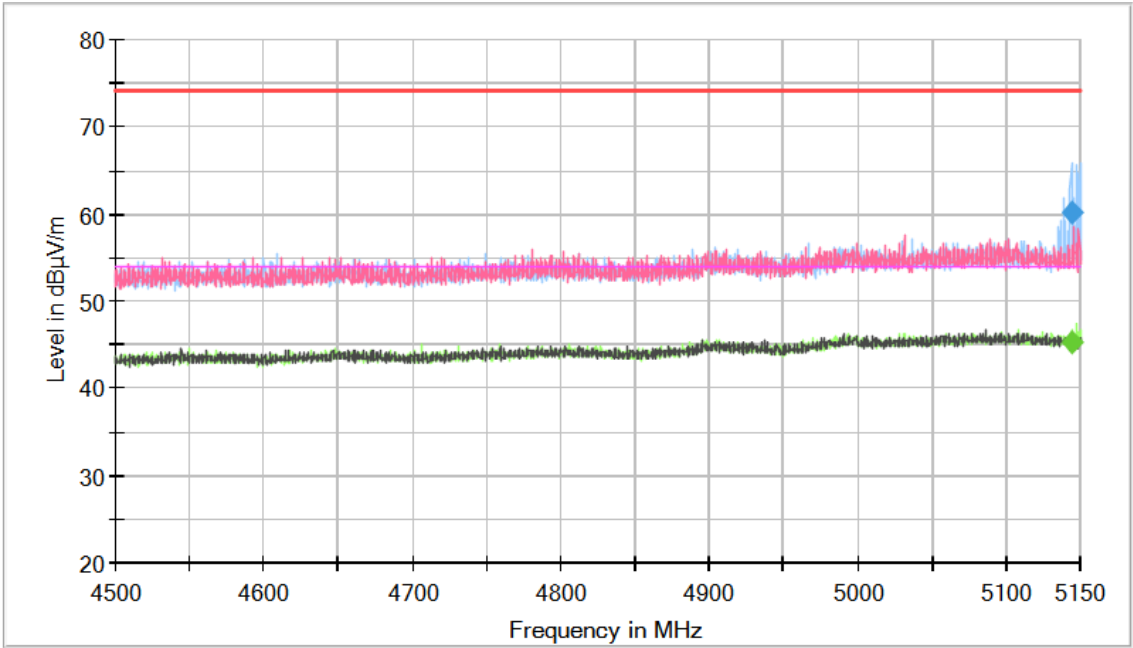
	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
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	6,5 GHz - 17 GHz	350 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

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Frequency Range GHz = [1, 6.5] Frequency MHz = 5210.00000
Modulation = 802.11ax HE80 (OFDMA MCS0) Subcarrier Mode = SU

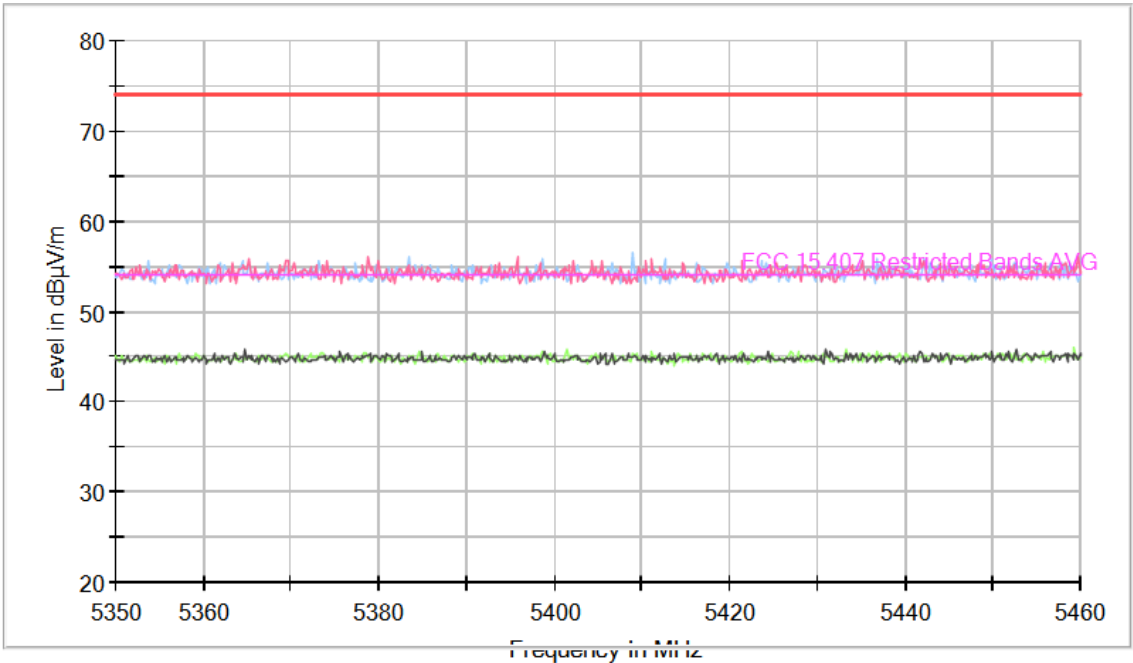
Images:

Full Spectrum





- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

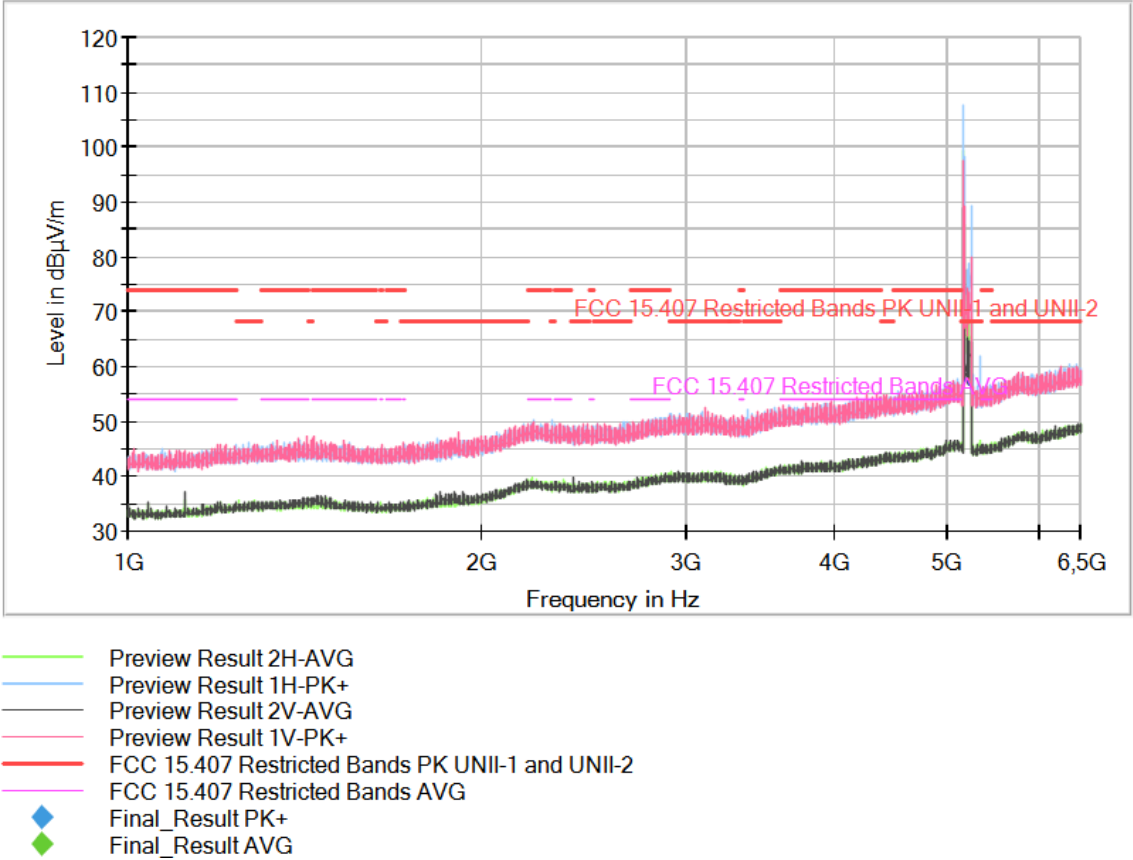


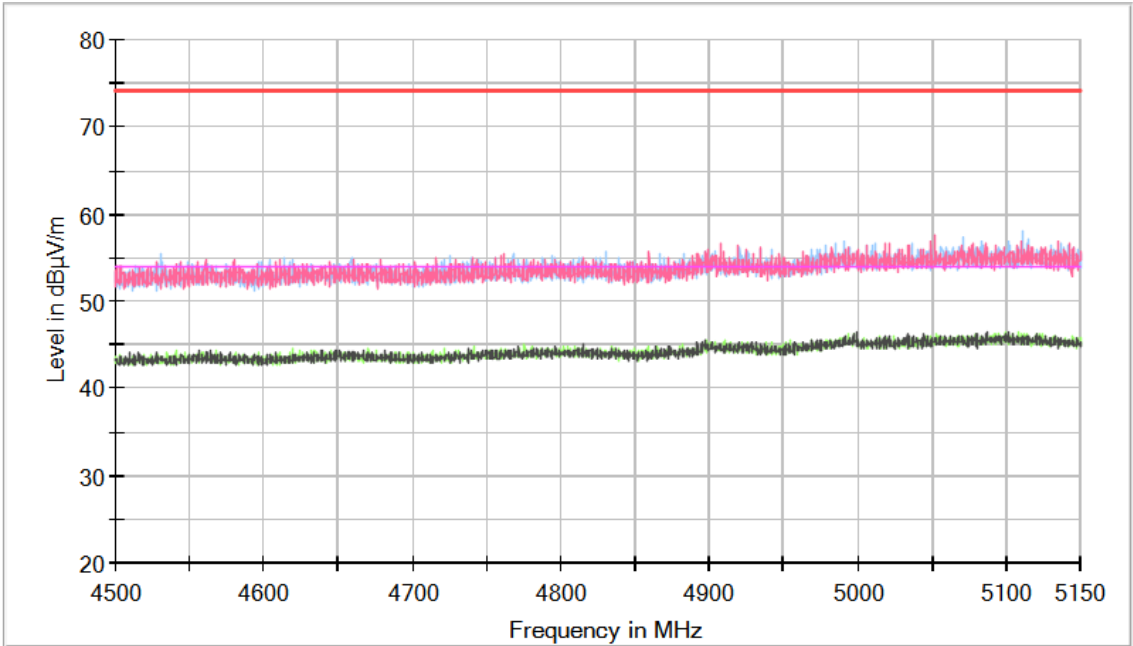
- Preview Result 2H-AVG
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Frequency Range GHz = [1, 6.5] Frequency MHz = 5210.00000
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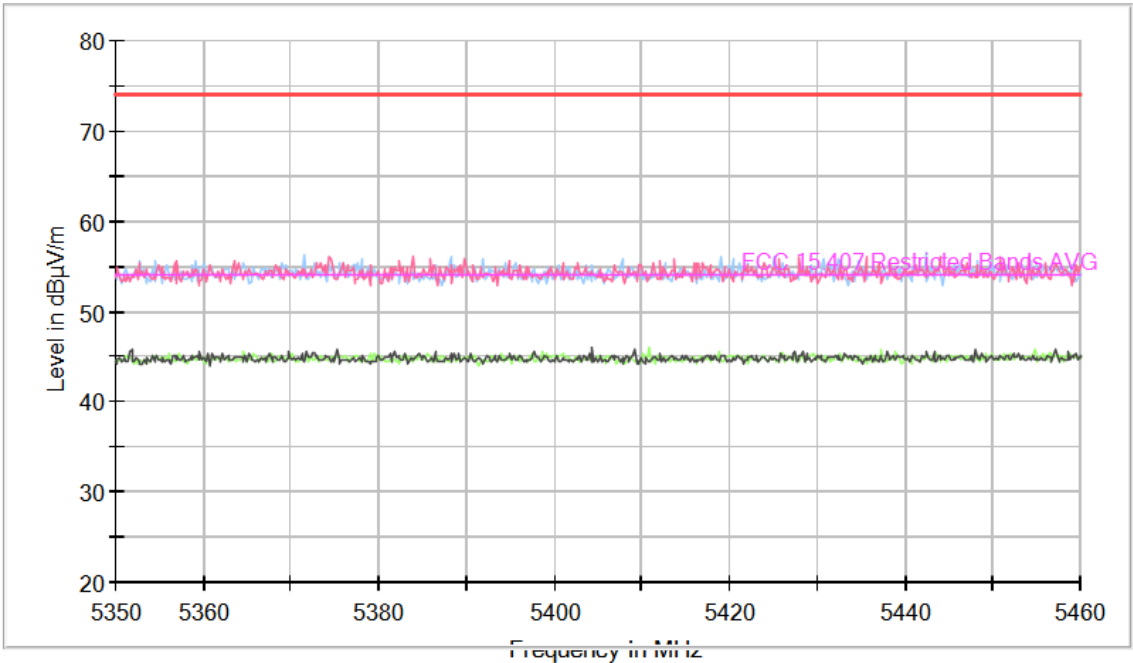
Images:

Full Spectrum





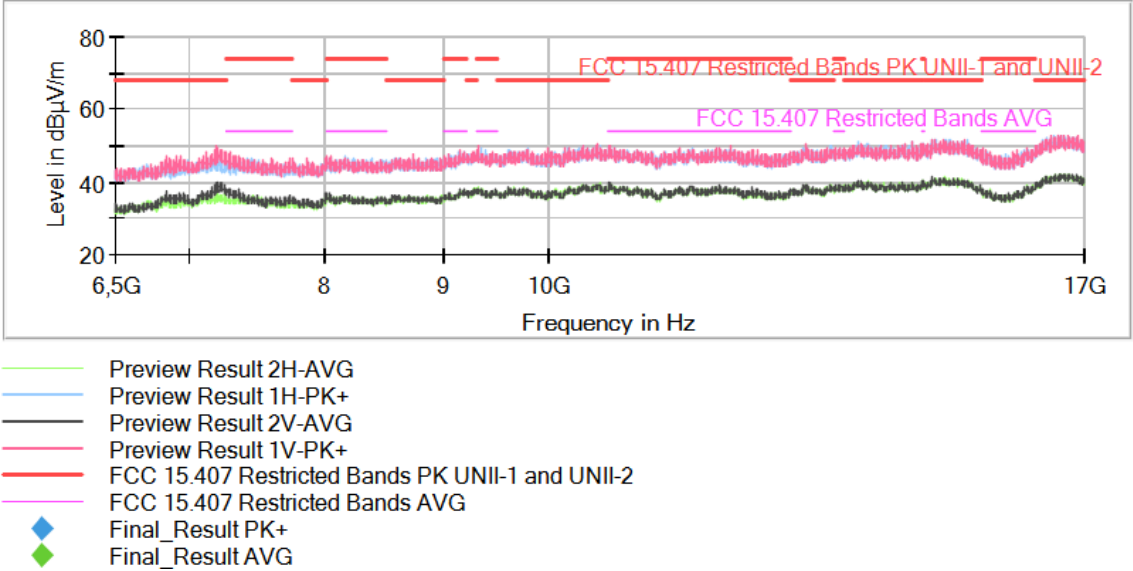
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Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [6.5, 17] Frequency MHz = 5220.00000
Modulation = 802.11ax HE80 (OFDMA MCS0) Subcarrier Mode = RU

Images:



Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	6,5 GHz - 17 GHz	350 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Modulation: 802.11n HT20 (OFDM MCS0)

Results

No spurious emissions were detected

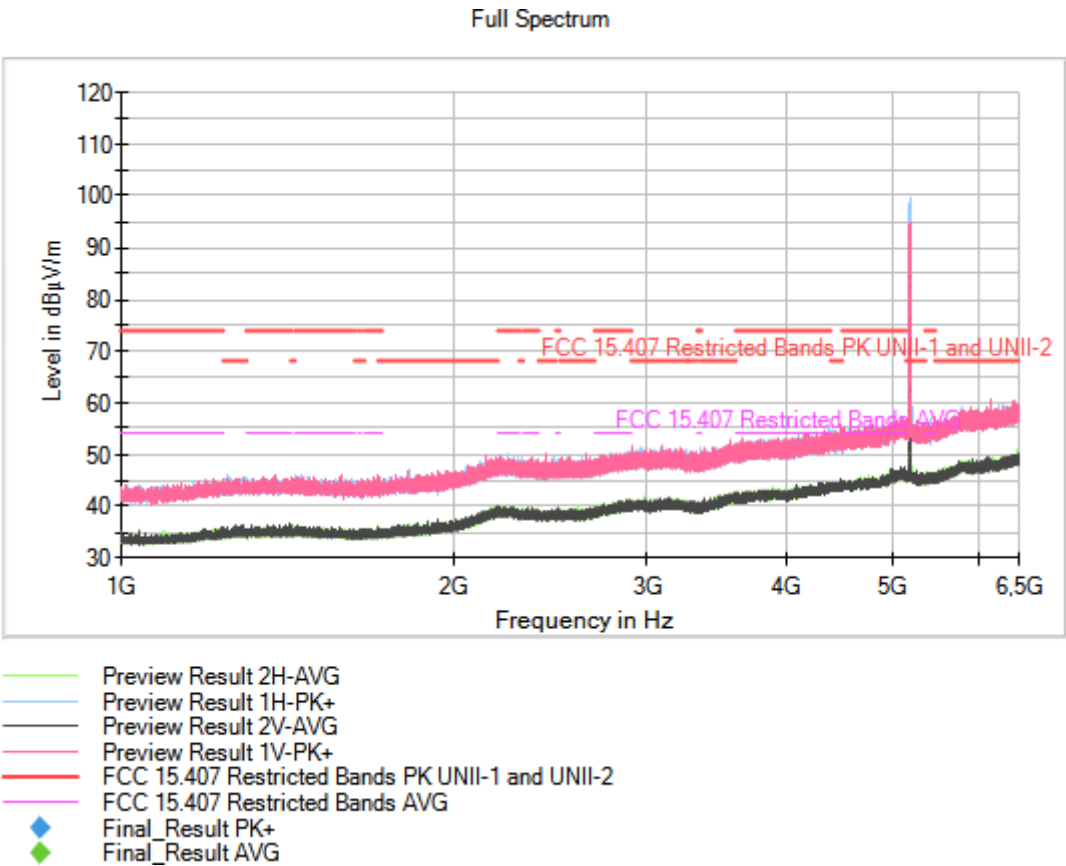
Verdict

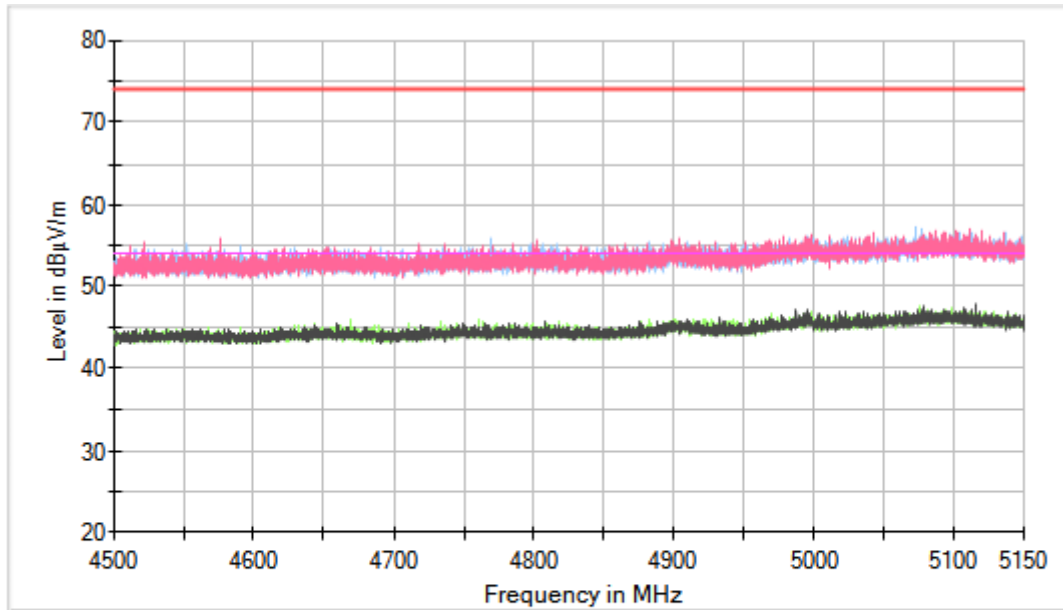
Pass

Attachments

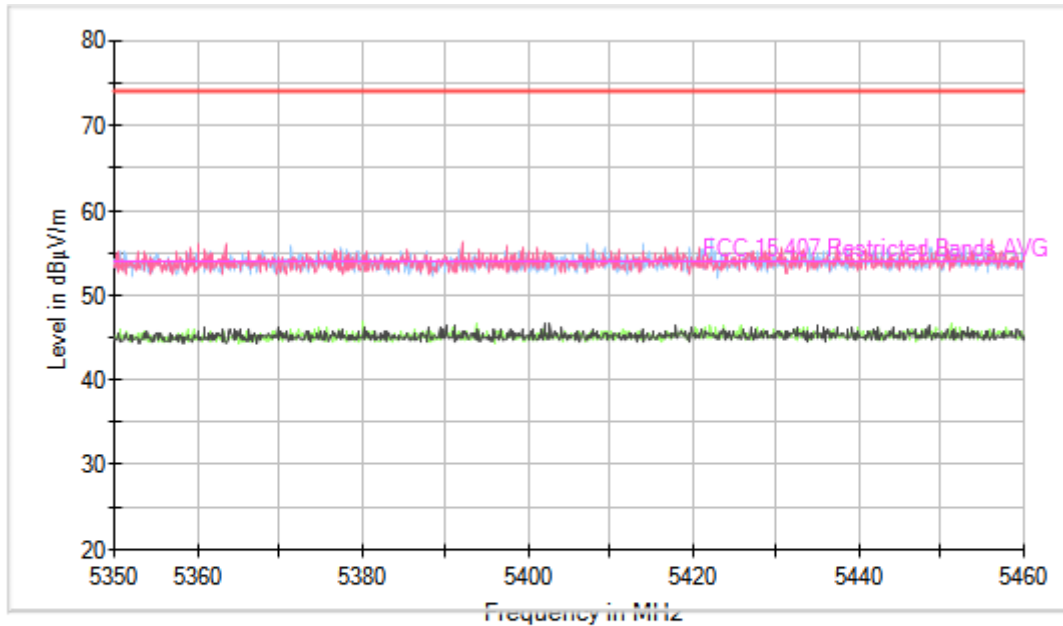
Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5180.00000
Modulation = 802.11n HT20 (OFDM MCS0)

Images:





- Preview Result 2H-AVG
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- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
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Operation Band MHz = [5150, 5250]

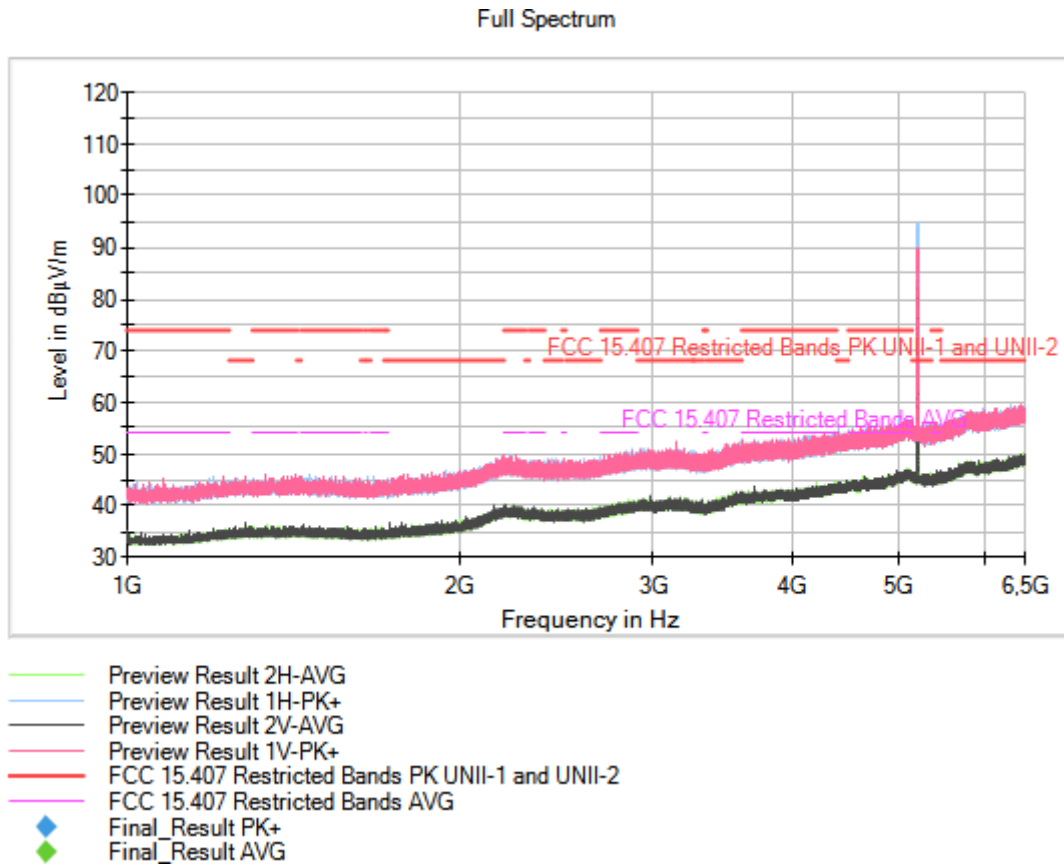
Active Port = 3

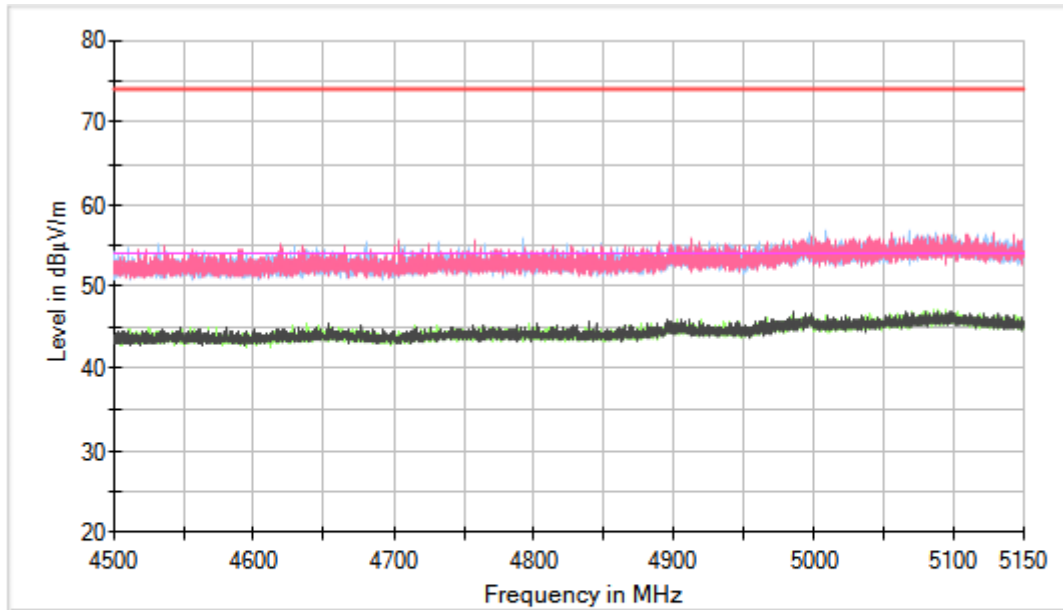
Frequency Range GHz = [1, 6.5]

Frequency MHz = 5200.00000

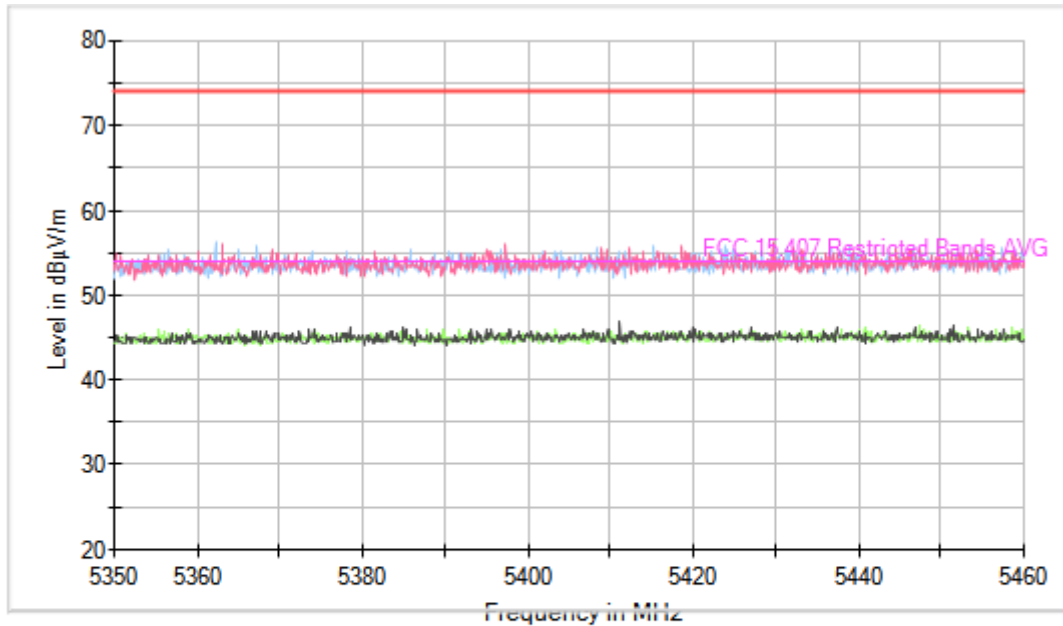
Modulation = 802.11n HT20 (OFDM MCS0)

Images:





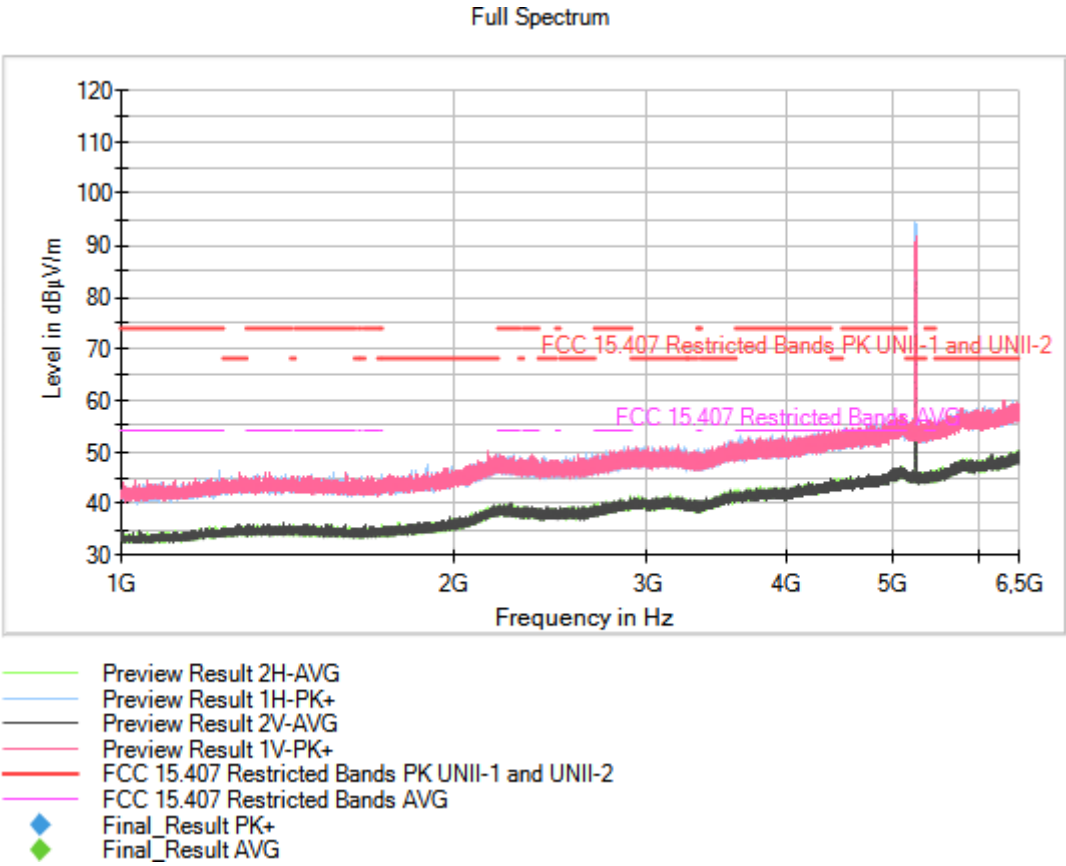
- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
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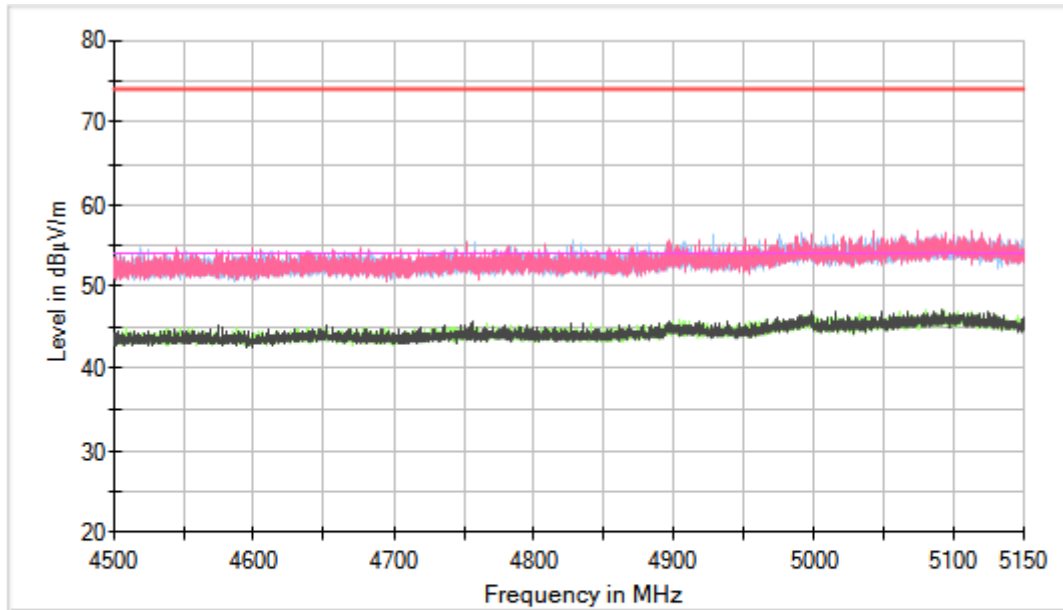


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- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
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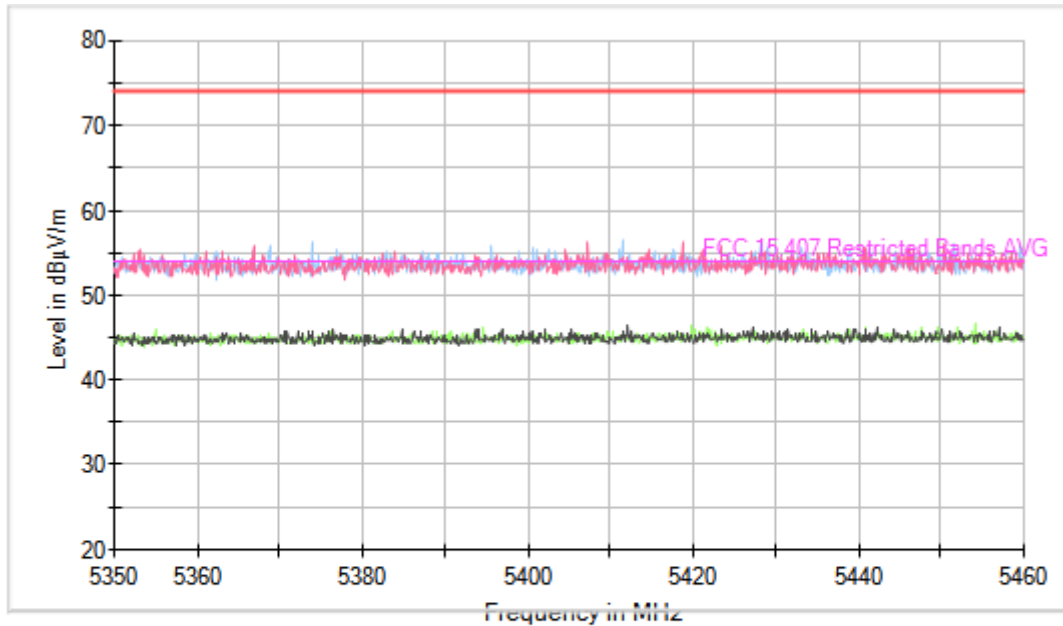
Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5240.00000
Modulation = 802.11n HT20 (OFDM MCS0)

Images:





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- Preview Result 1V-PK+
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- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

Operation Band MHz = [5150, 5250]

Active Port = 2+3

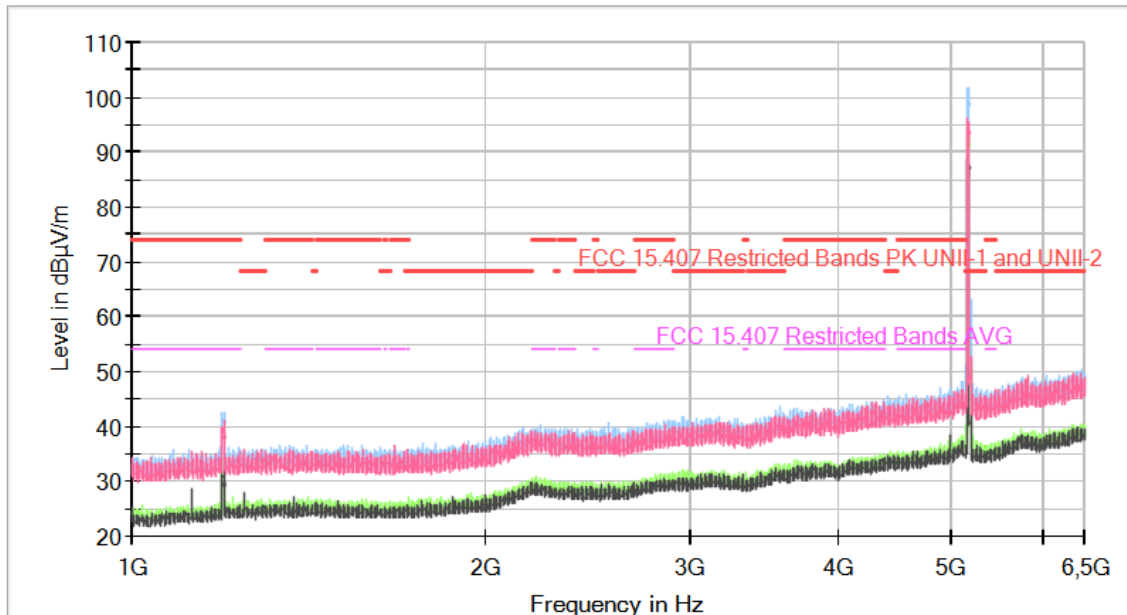
Frequency Range GHz = [1, 6.5]

Frequency MHz = 5180.00000

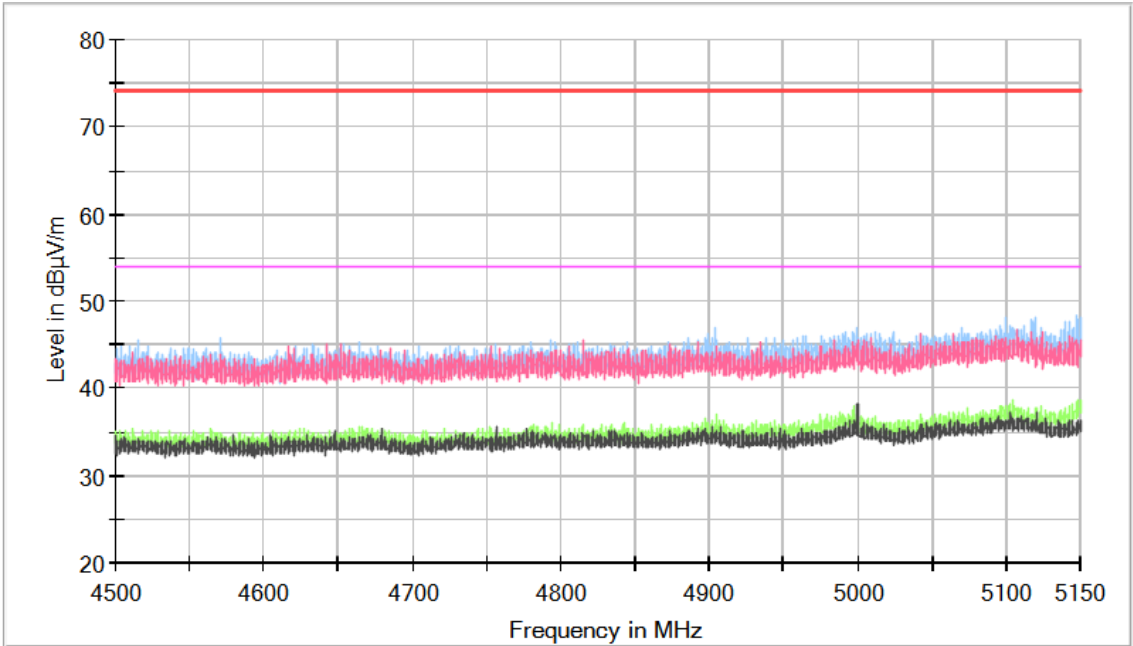
Modulation = 802.11n HT20 (OFDM MCS0)

Images:

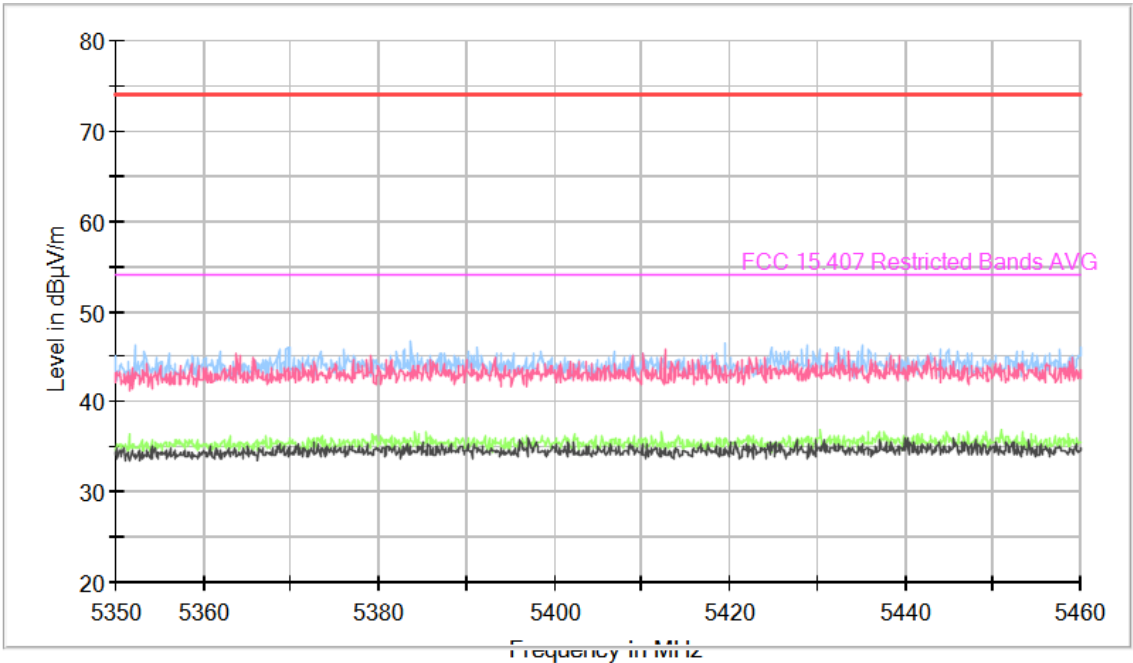
Full Spectrum



- Preview Result 2H-AVG
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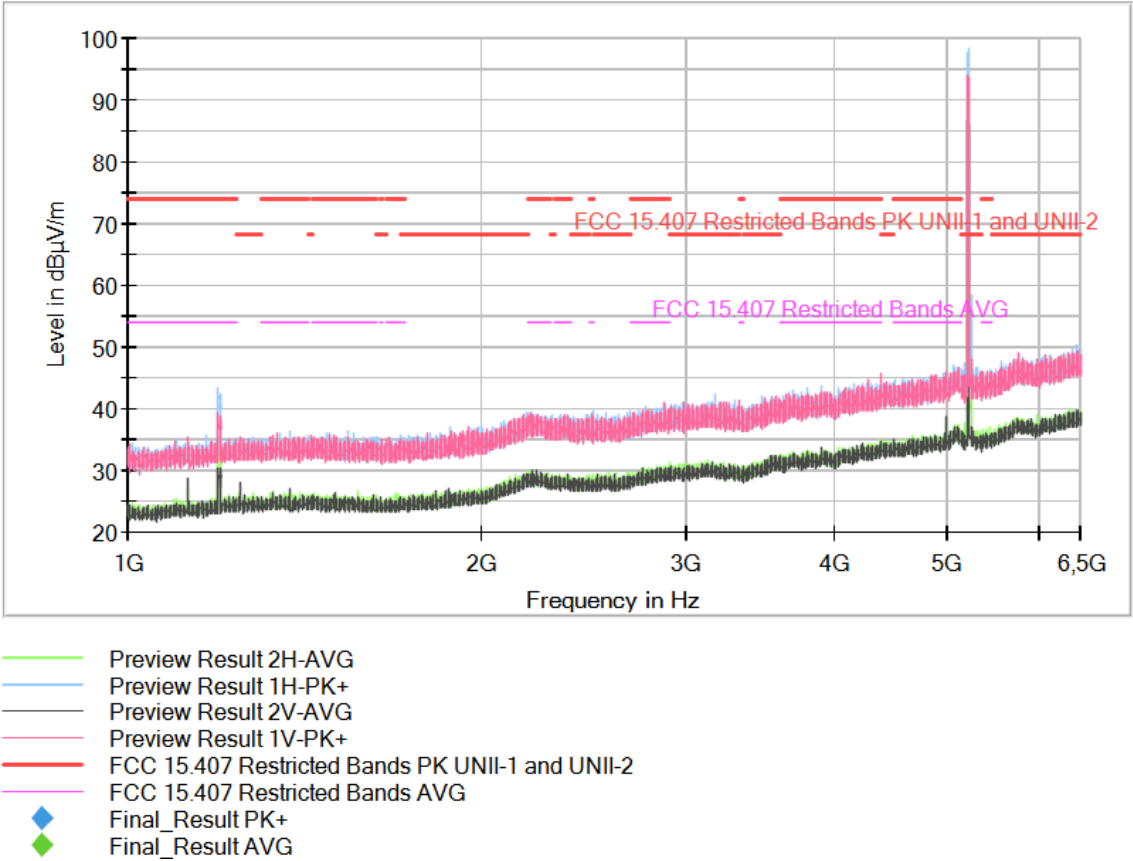


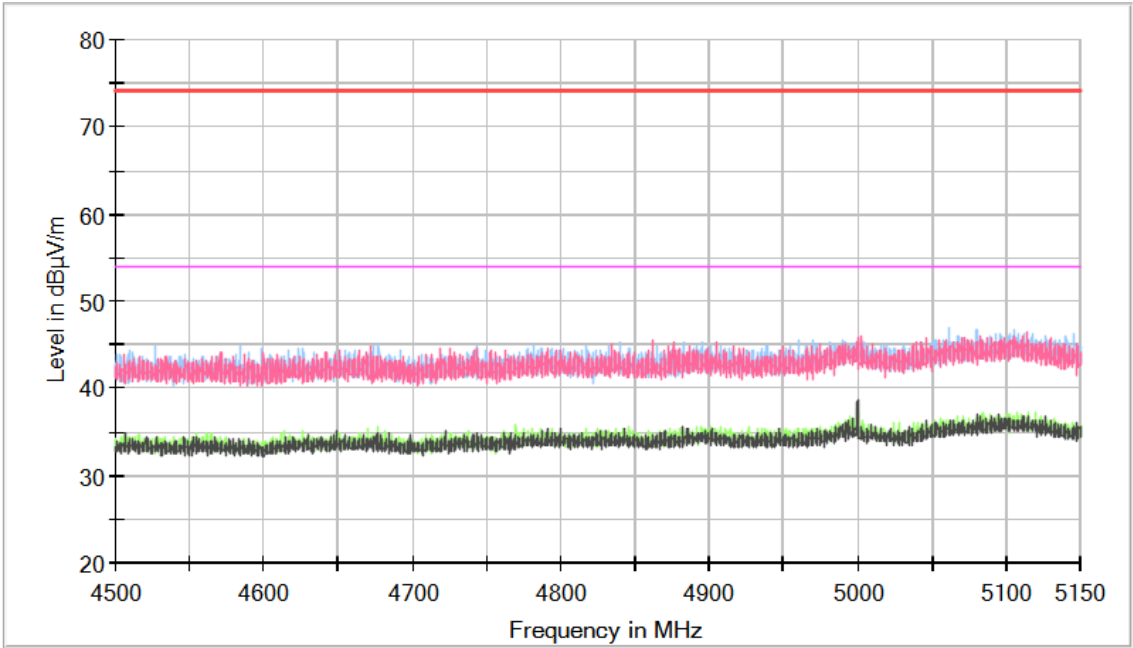
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Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5220.00000
Modulation = 802.11n HT20 (OFDM MCS0)

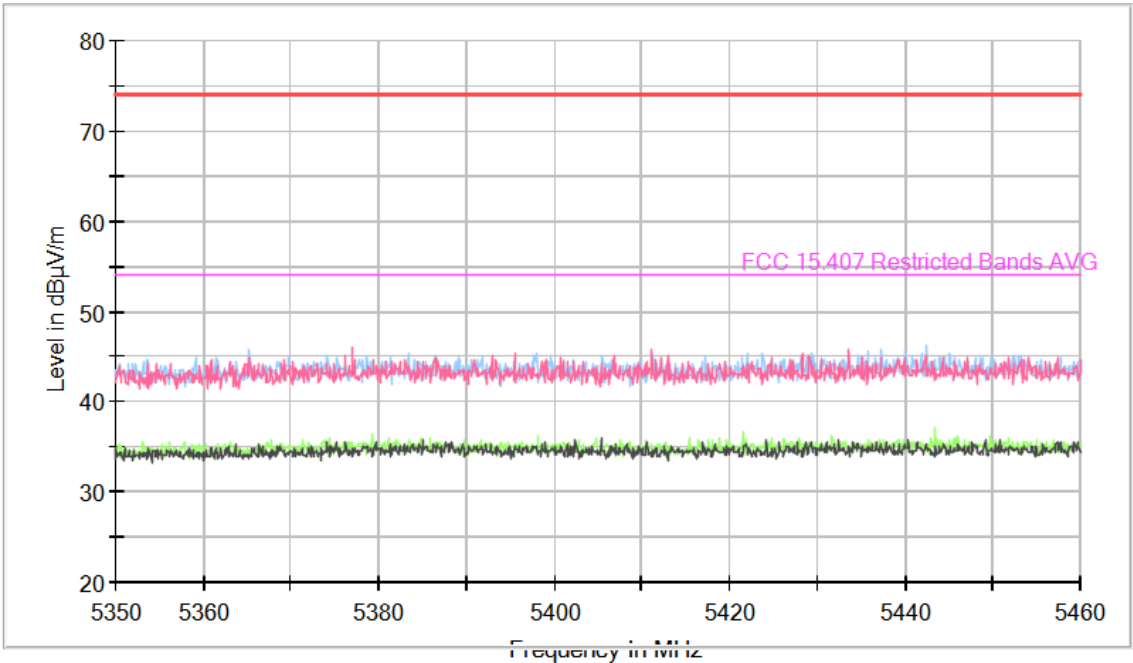
Images:

Full Spectrum





- Preview Result 2H-AVG
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- Preview Result 2V-AVG
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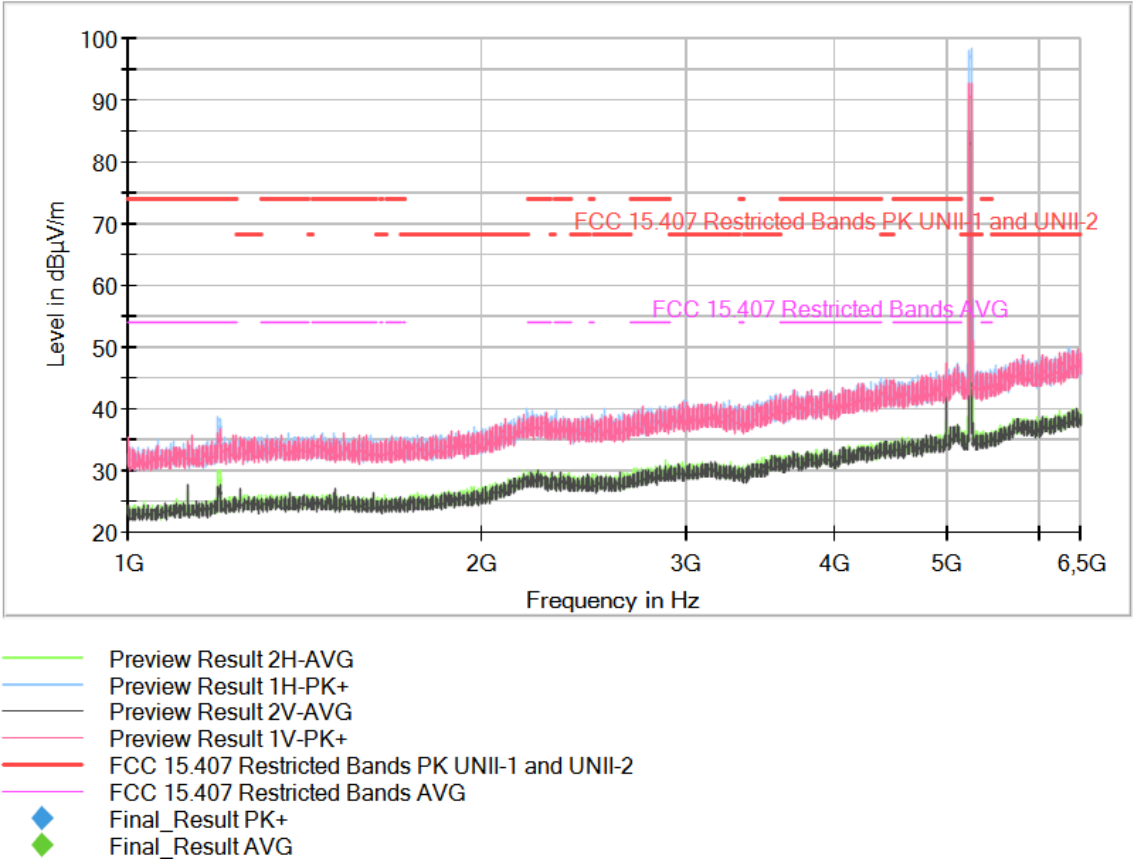


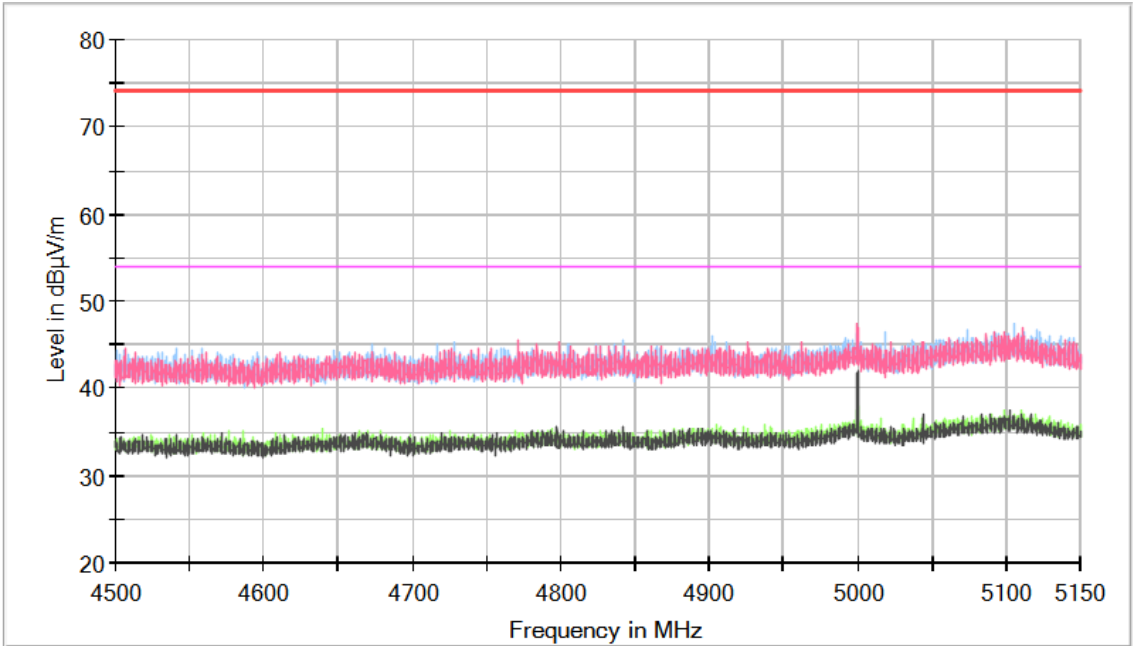
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Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5240.00000
Modulation = 802.11n HT20 (OFDM MCS0)

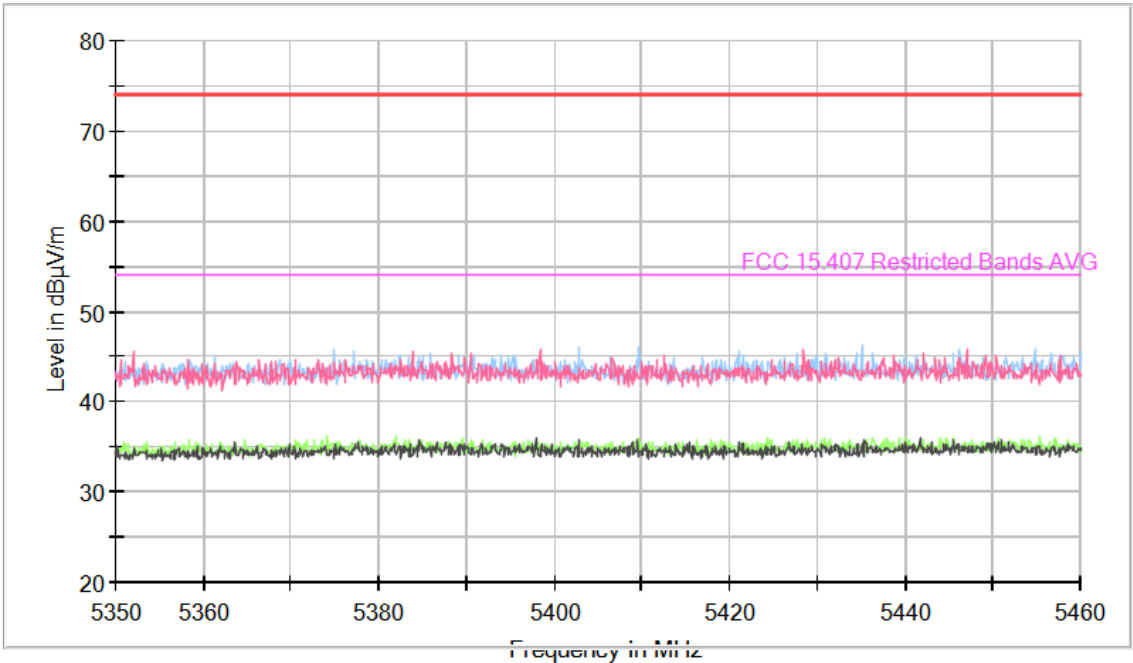
Images:

Full Spectrum





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- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

Modulation: 802.11n HT40 (OFDM MCS0)

Results

No spurious emissions were detected

Verdict

Pass

Attachments

Operation Band MHz = [5150, 5250]

Active Port = 3

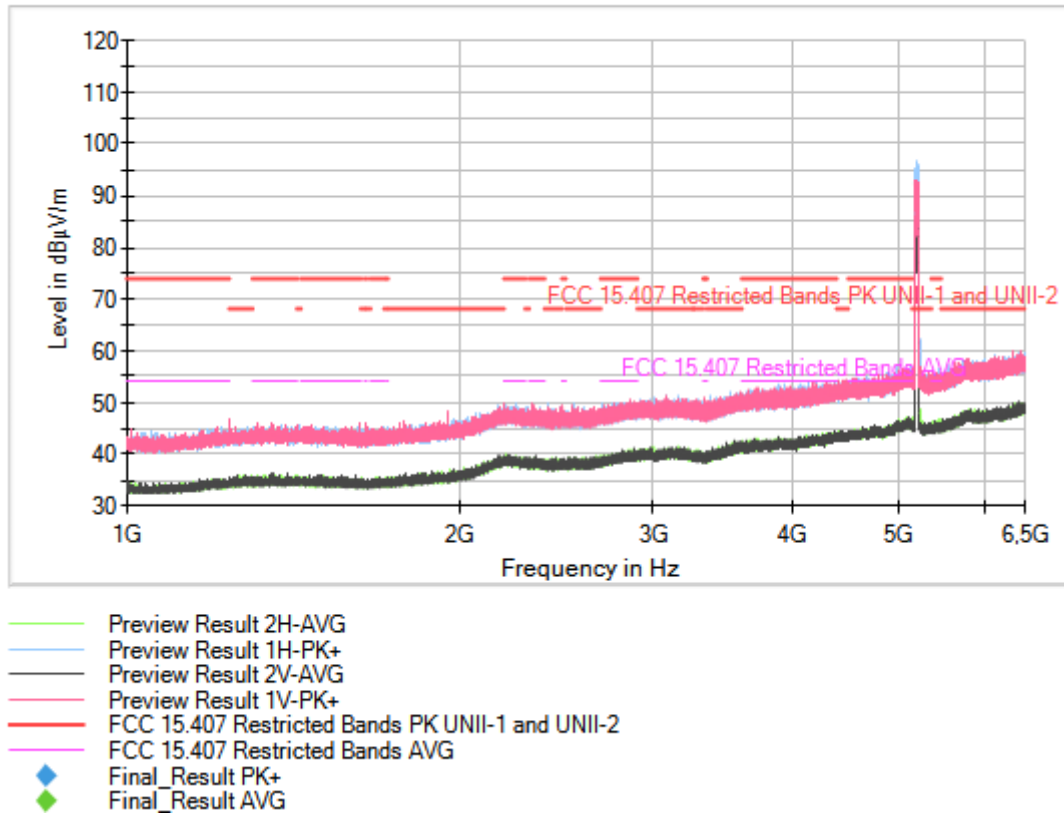
Frequency Range GHz = [1, 6.5]

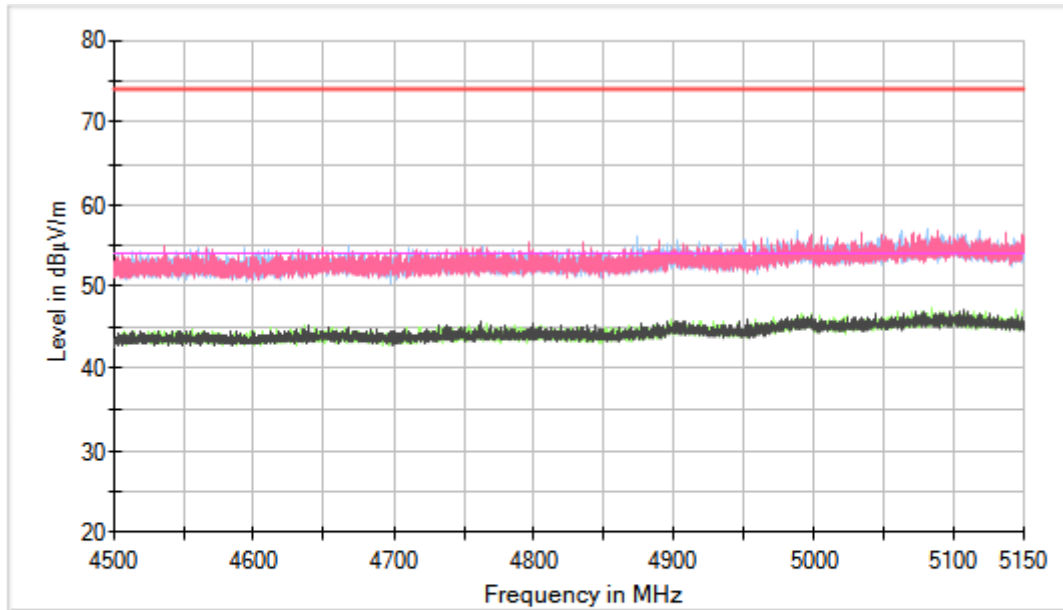
Frequency MHz = 5190.00000

Modulation = 802.11n HT40 (OFDM MCS0)

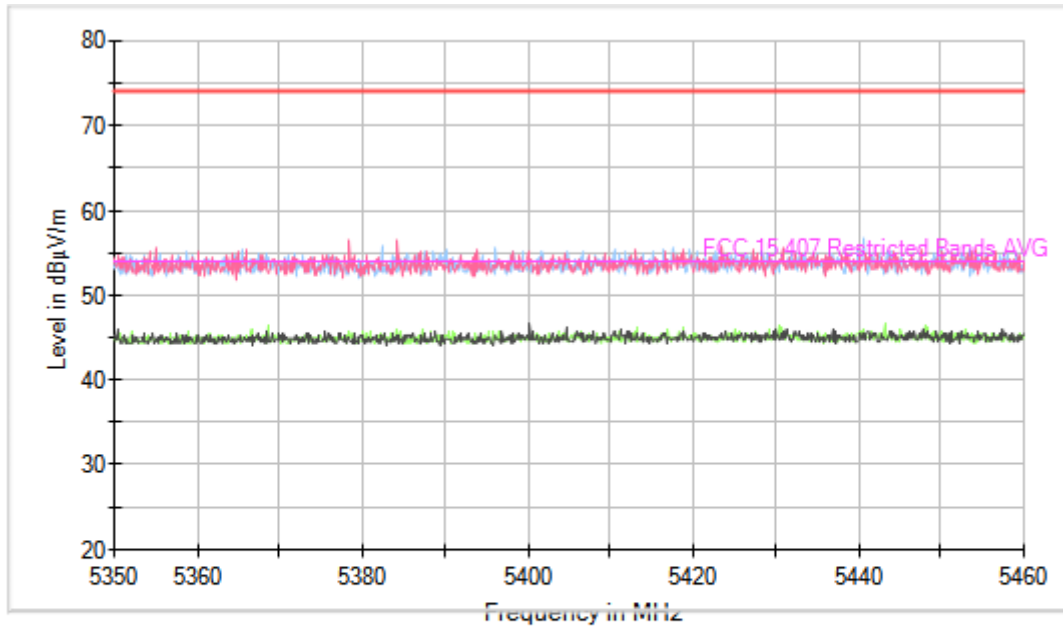
Images:

Full Spectrum





- Preview Result 2H-AVG
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Operation Band MHz = [5150, 5250]

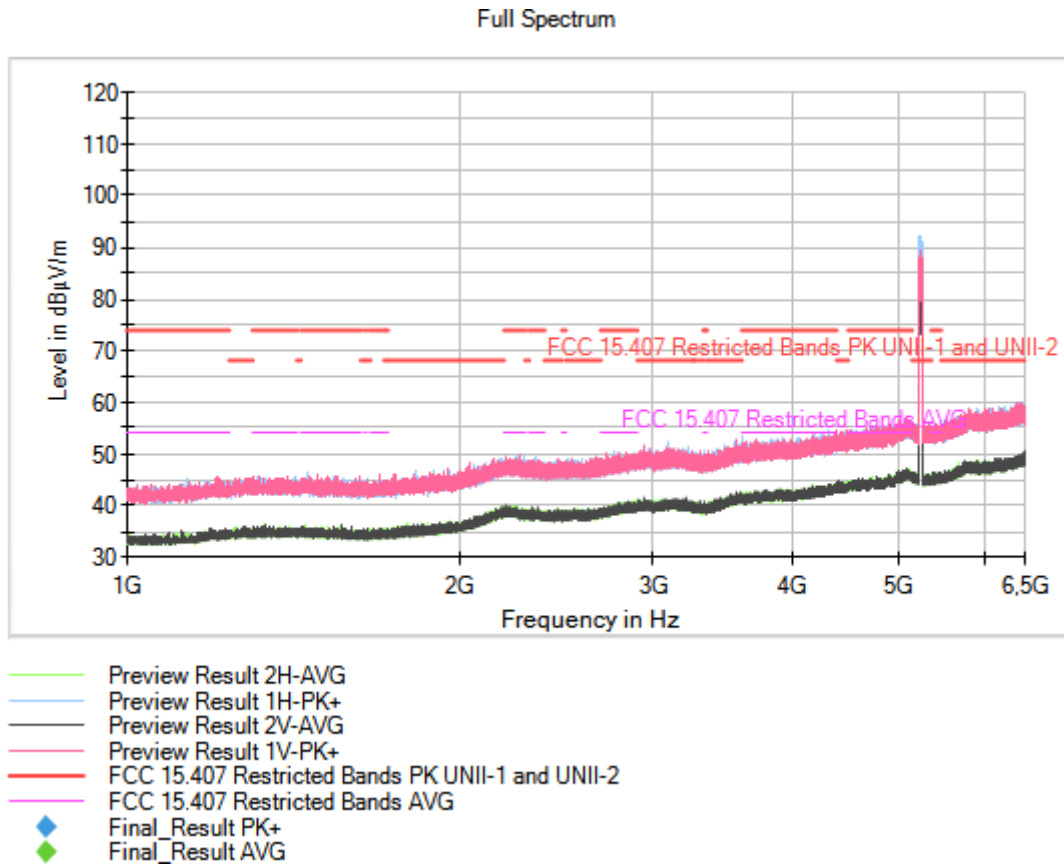
Active Port = 3

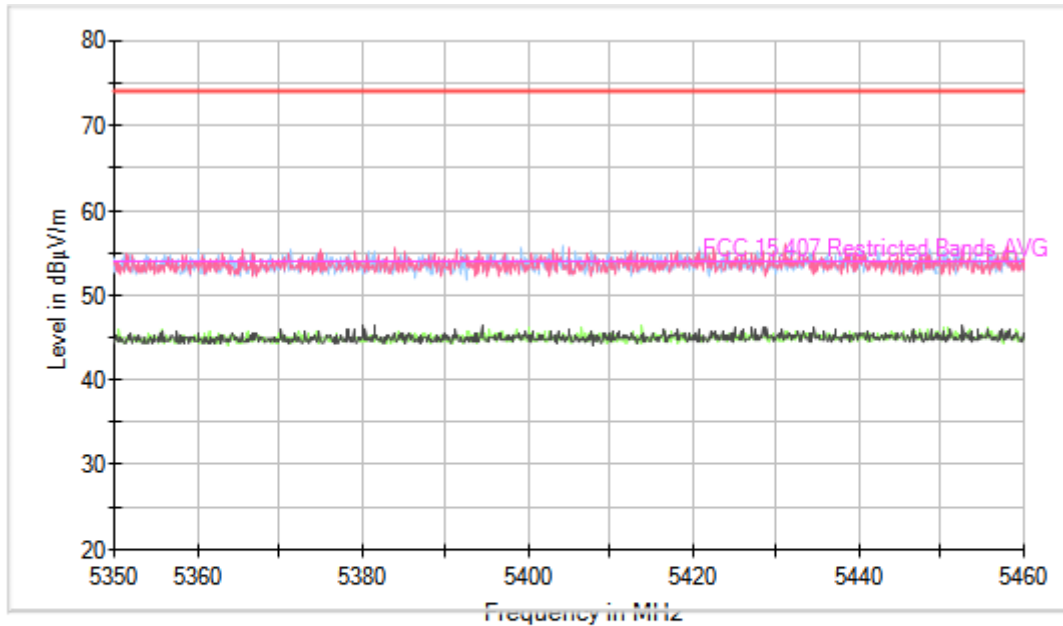
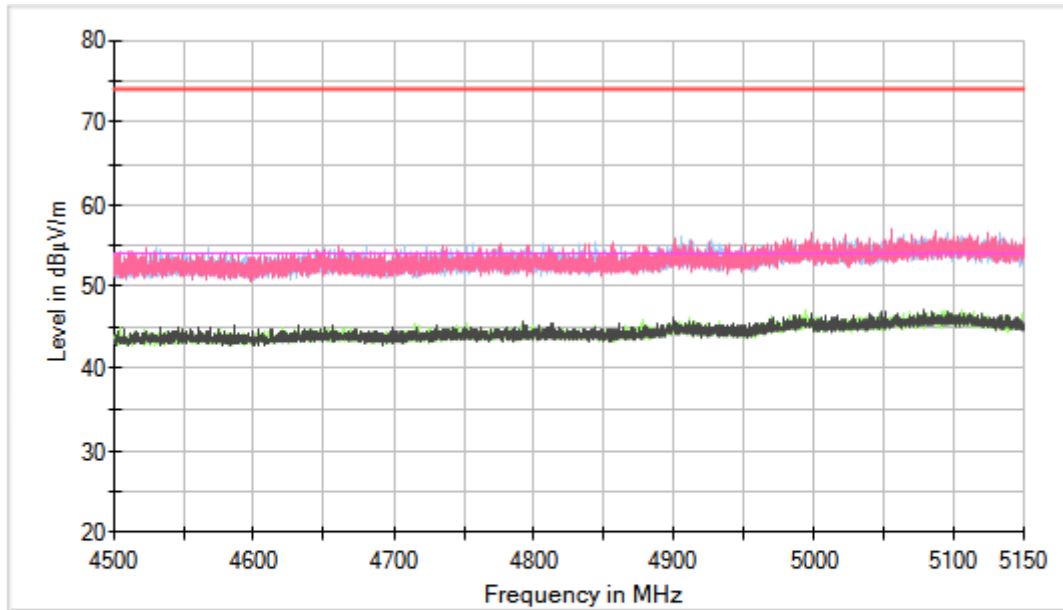
Frequency Range GHz = [1, 6.5]

Frequency MHz = 5230.00000

Modulation = 802.11n HT40 (OFDM MCS0)

Images:

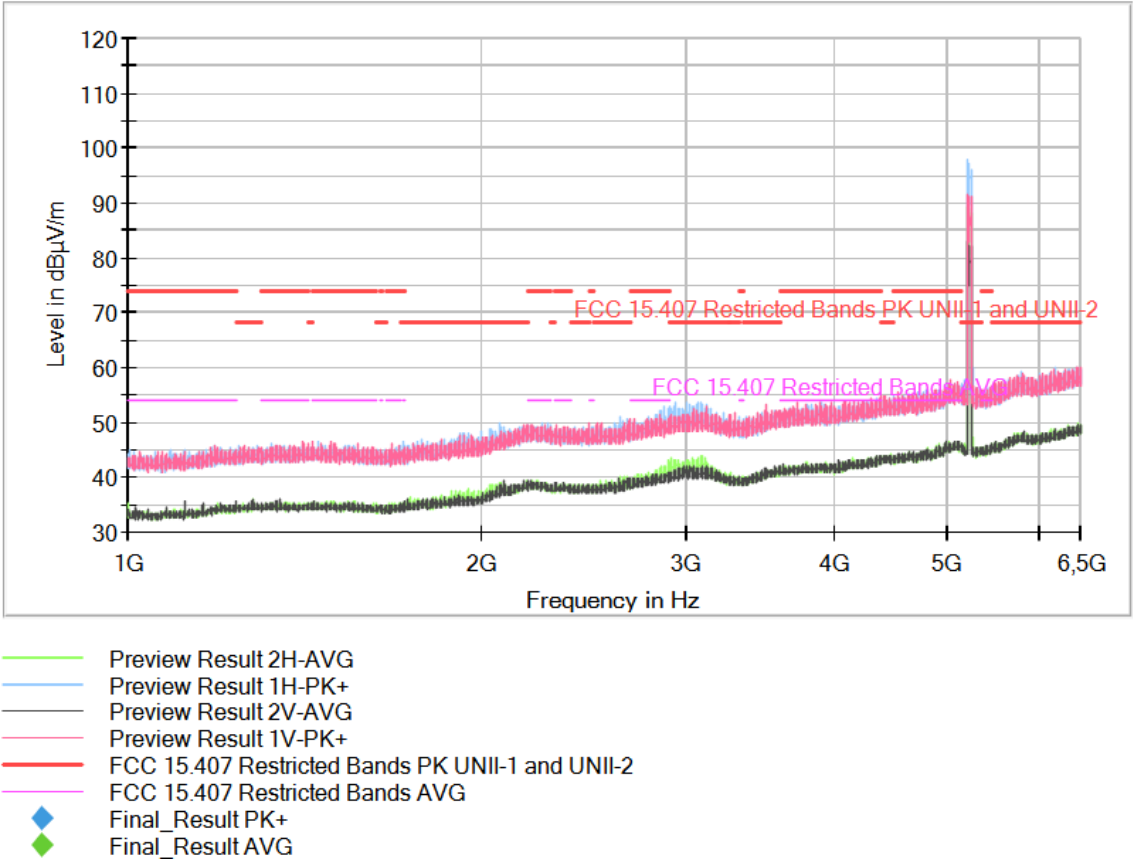


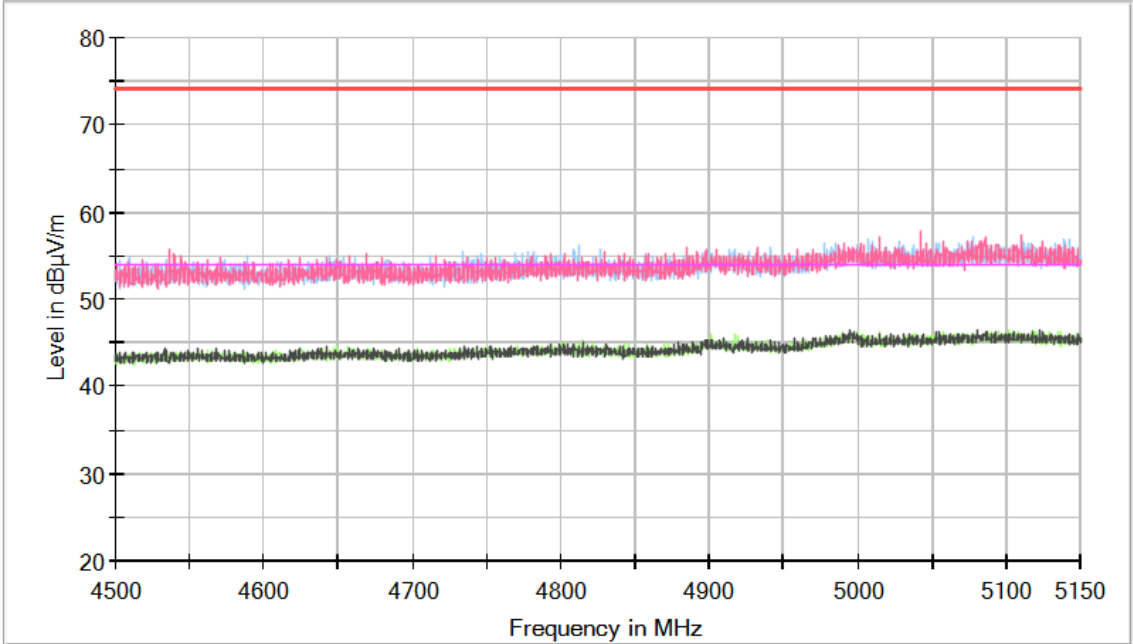


Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5230.00000
Modulation = 802.11n HT40 (OFDM MCS0)

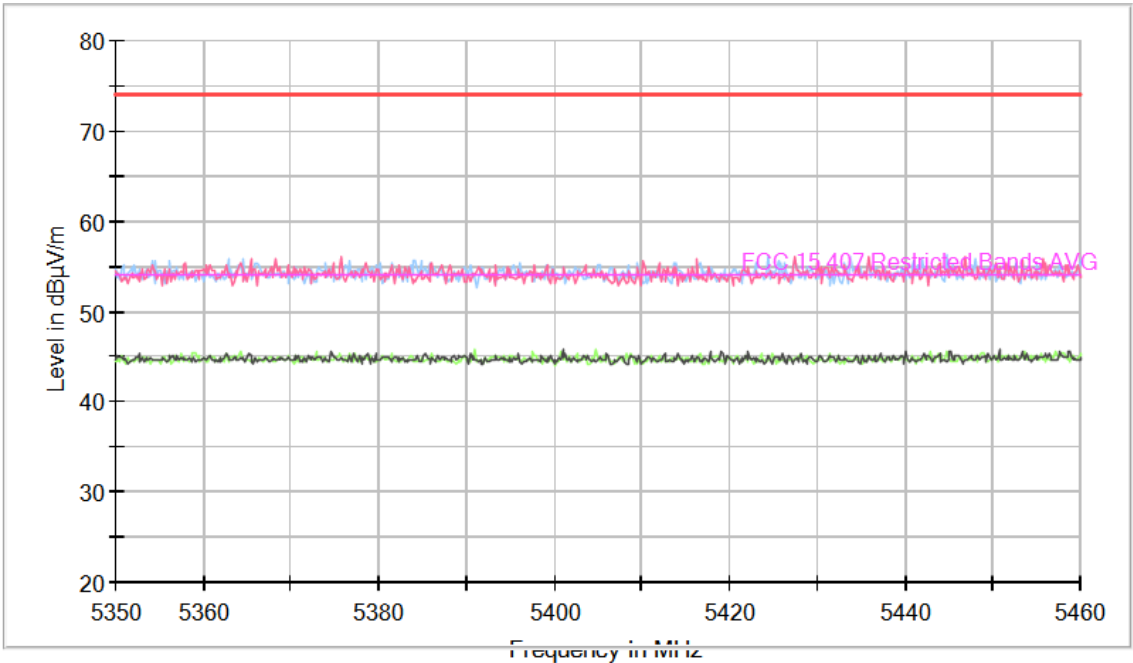
Images:

Full Spectrum





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- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
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- Final Result PK+
- Final Result AVG

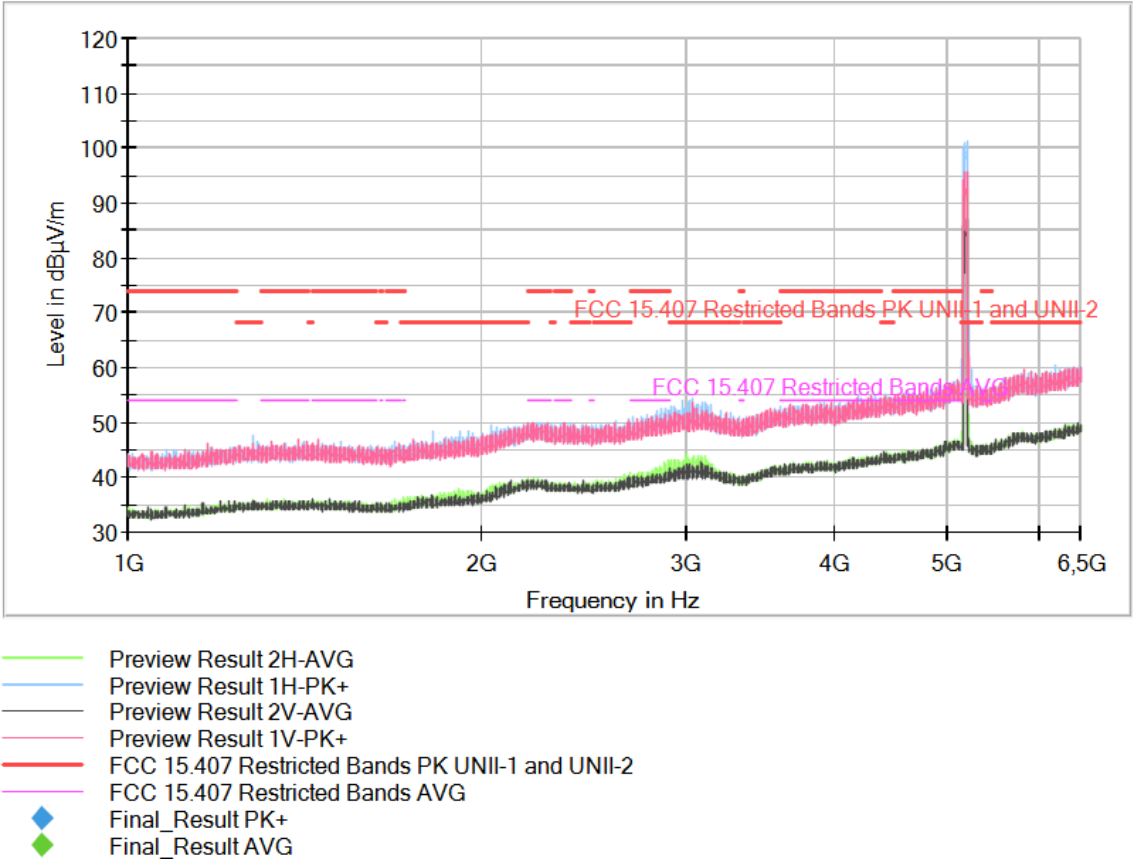


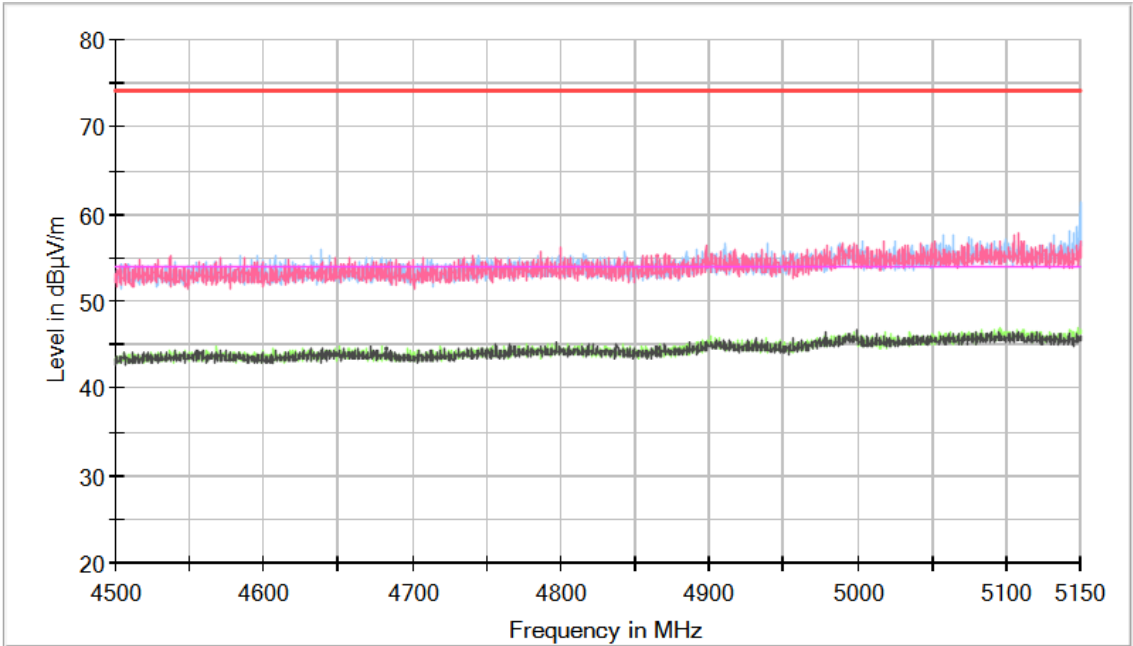
- Preview Result 2H-AVG
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Frequency Range GHz = [1, 6.5] Frequency MHz = 5190.00000
Modulation = 802.11n HT40 (OFDM MCS0)

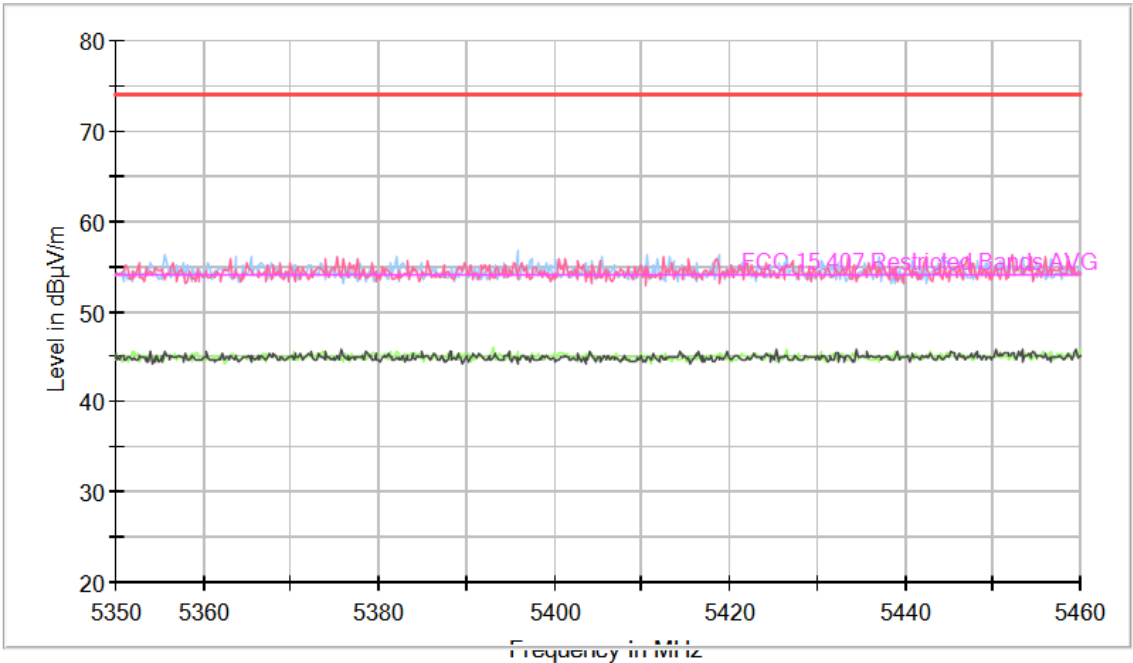
Images:

Full Spectrum





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- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

Modulation: 802.11a (OFDM 6 Mbit/s)

Results

No spurious emissions were detected

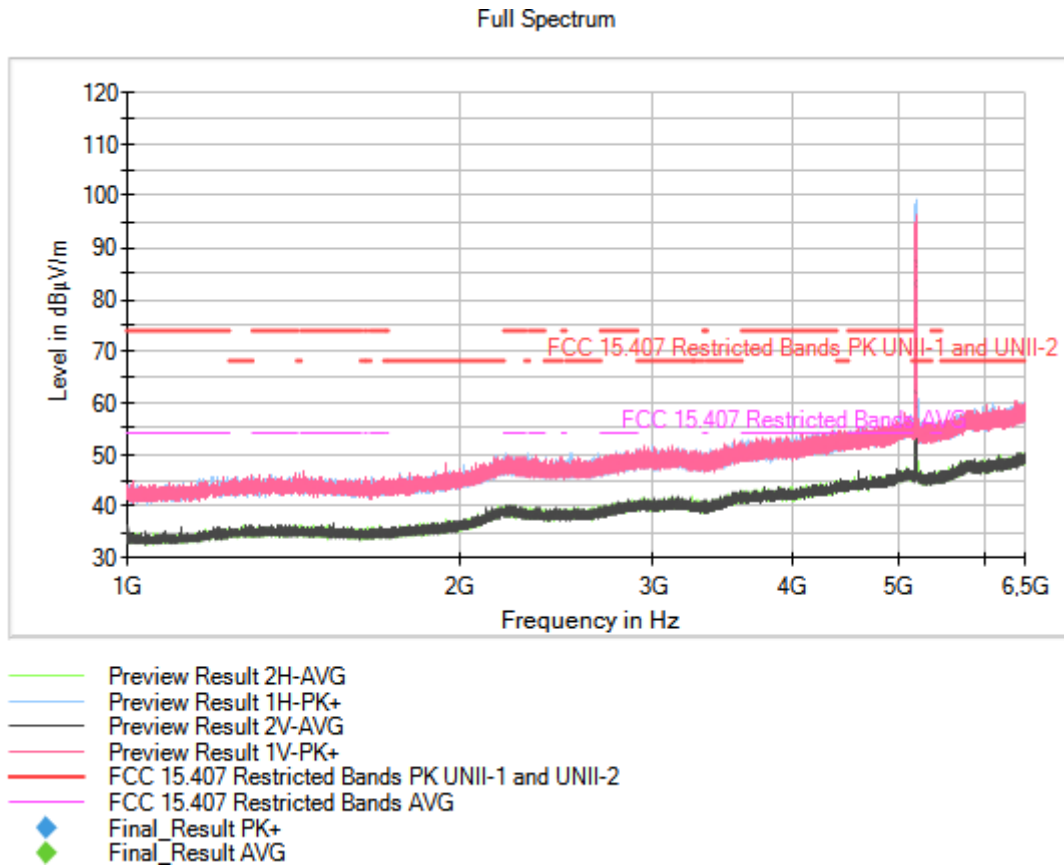
Verdict

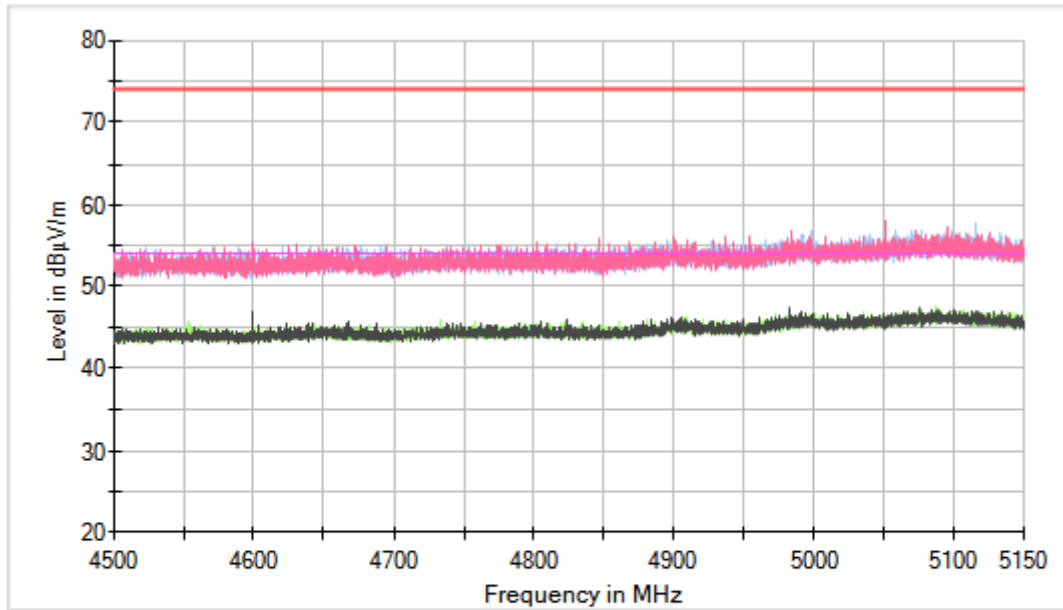
Pass

Attachments

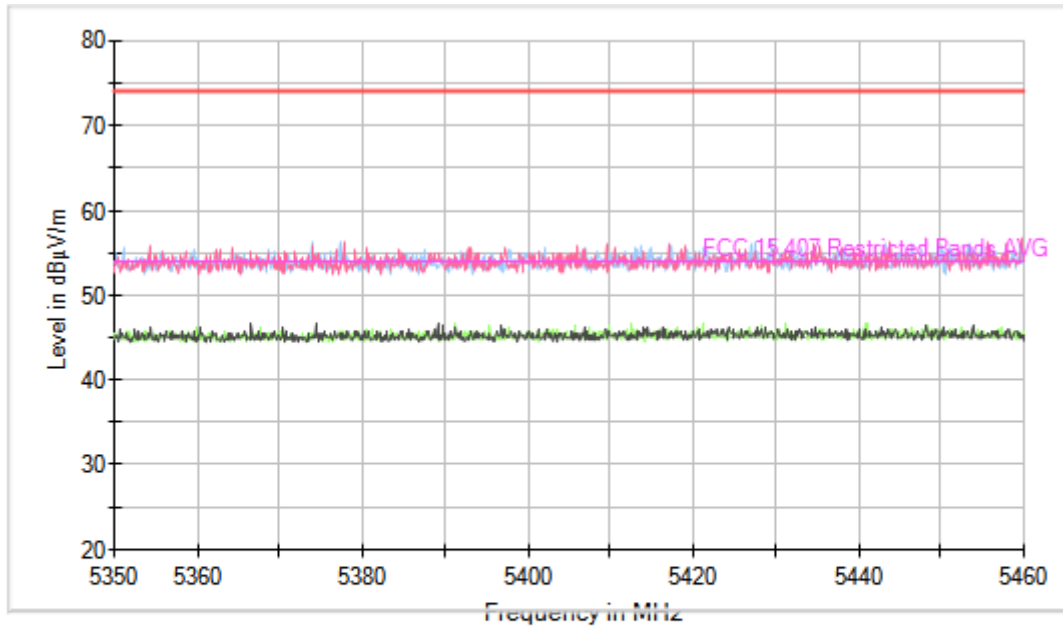
Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5180.00000
Modulation = 802.11a (OFDM 6 Mbit/s)

Images:





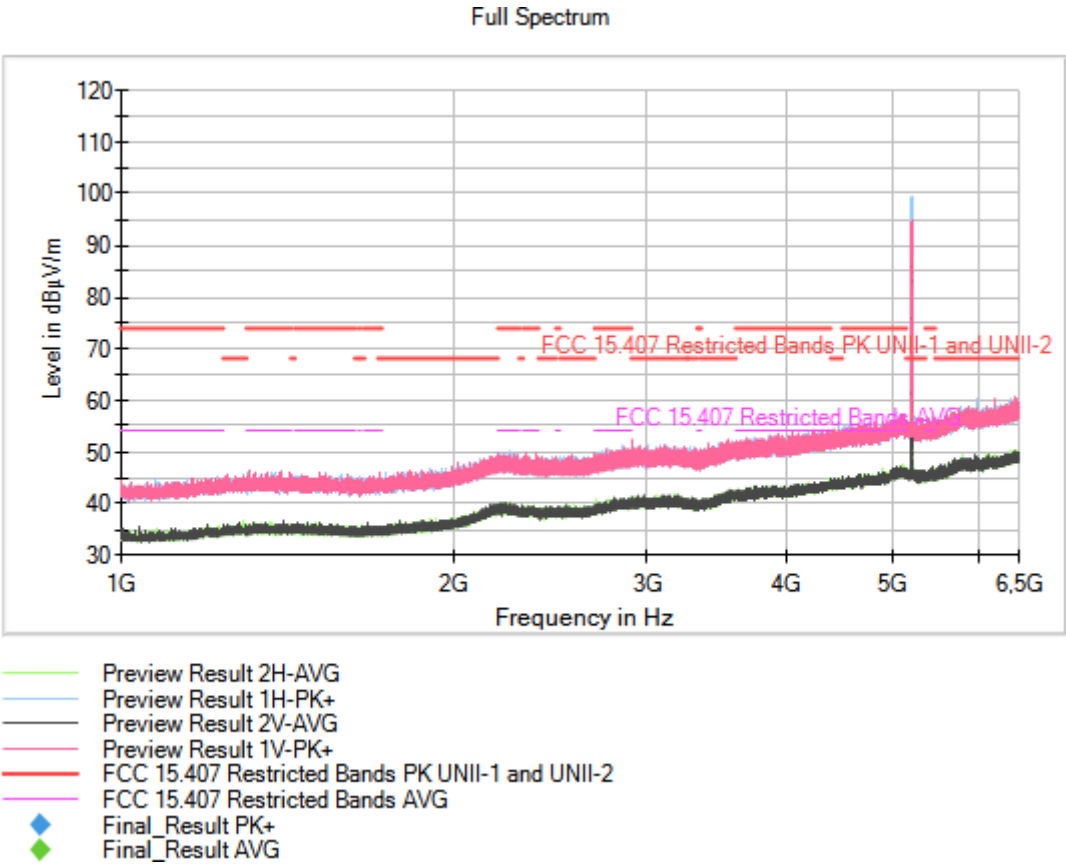
- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

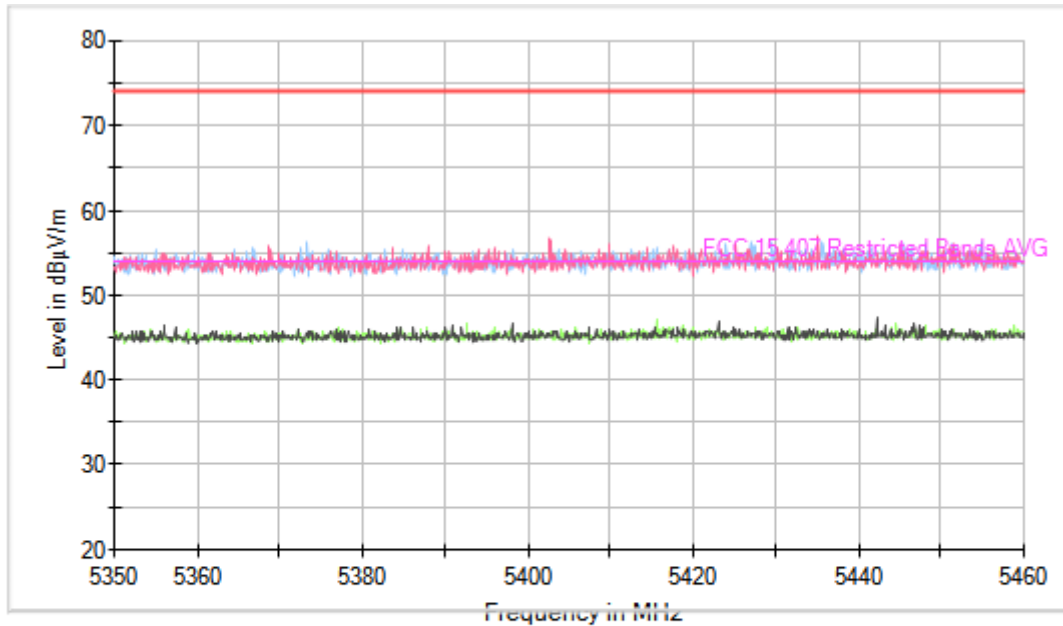
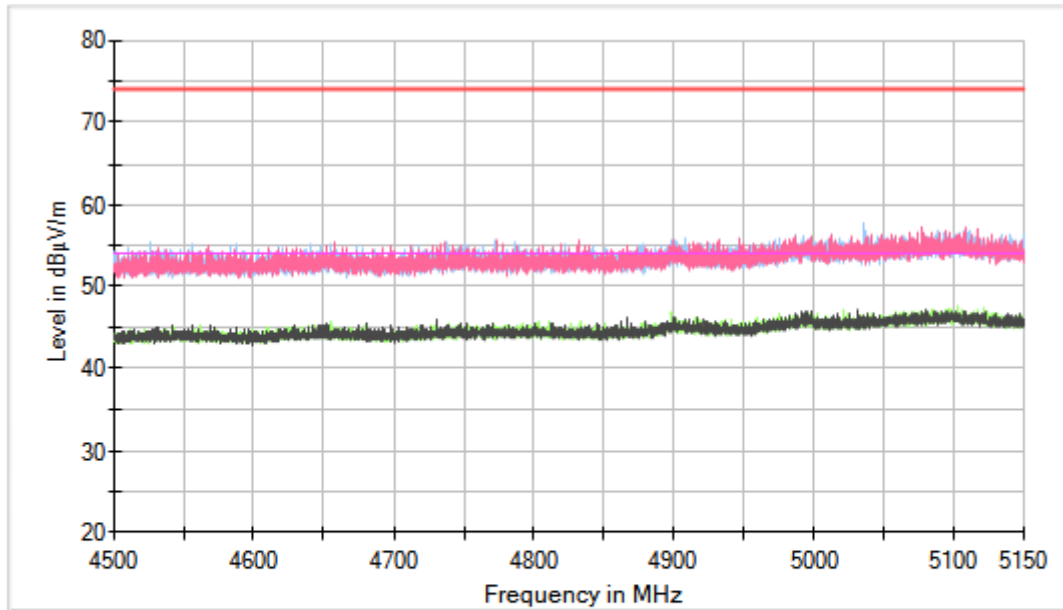


- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5200.00000
Modulation = 802.11a (OFDM 6 Mbit/s)

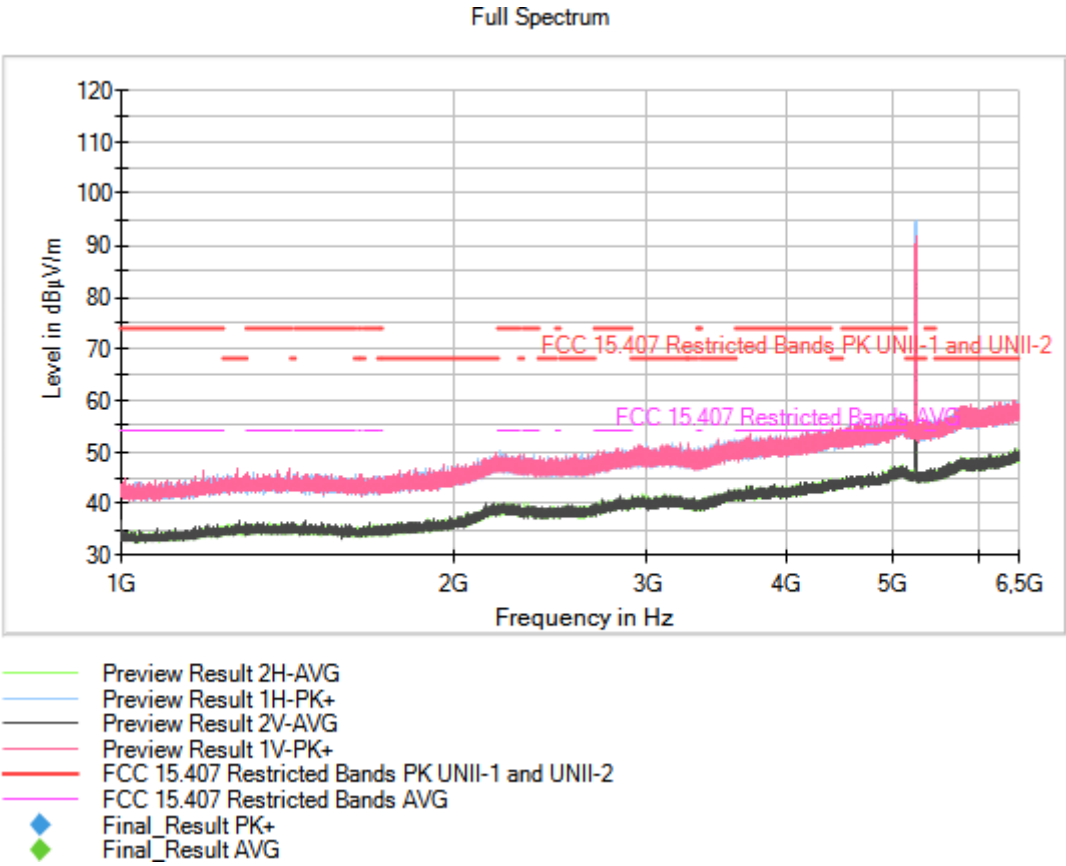
Images:

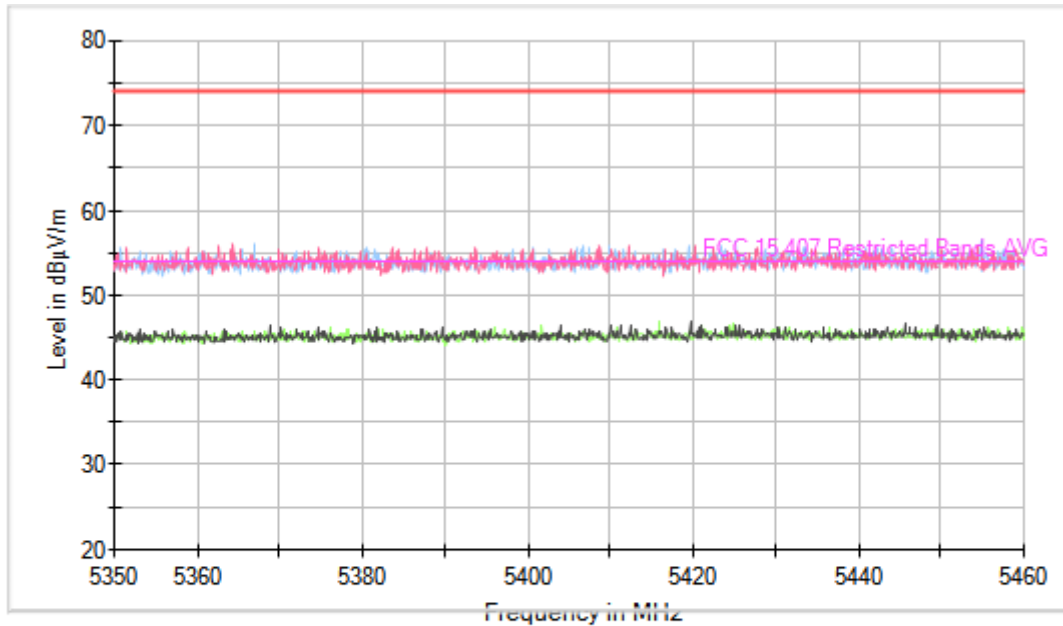
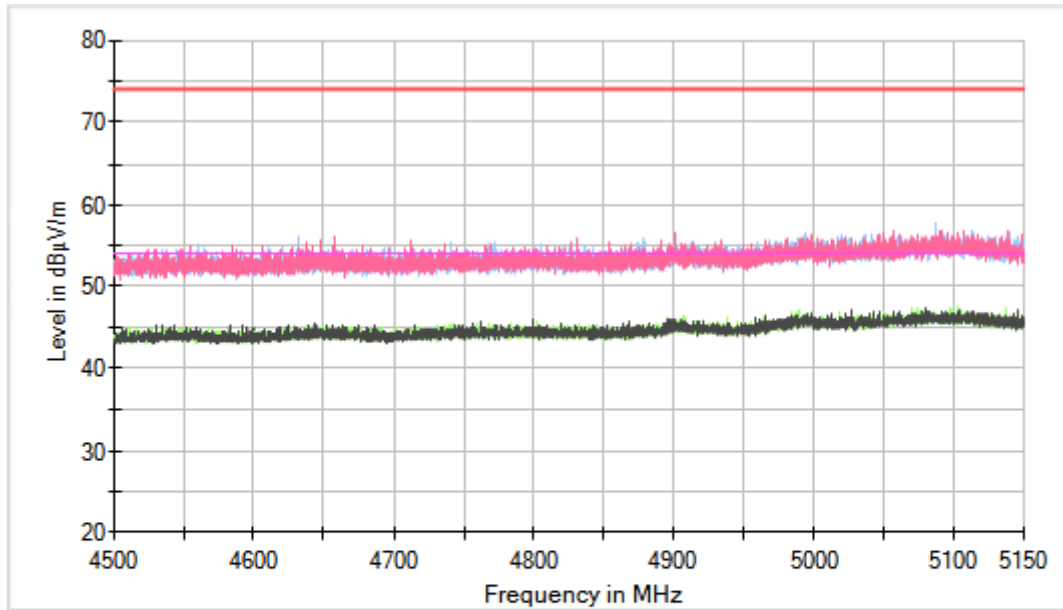




Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5240.00000
Modulation = 802.11a (OFDM 6 Mbit/s)

Images:

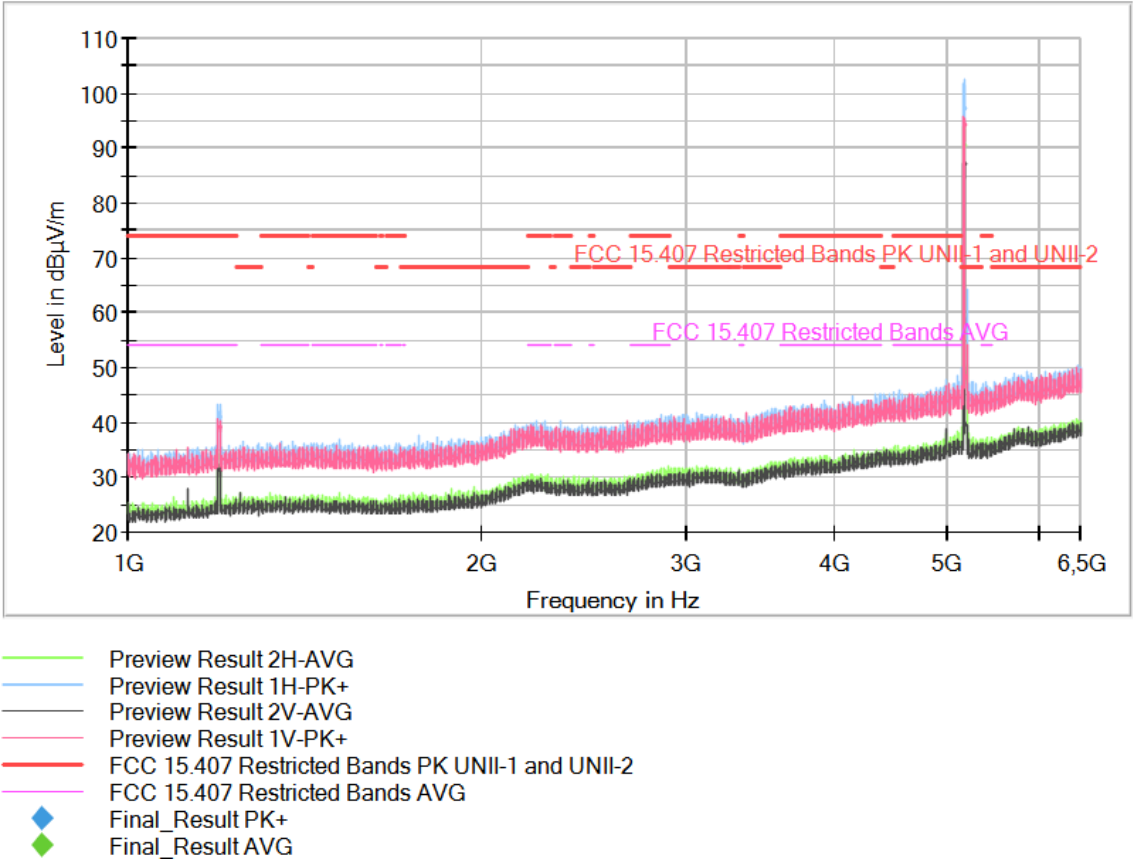


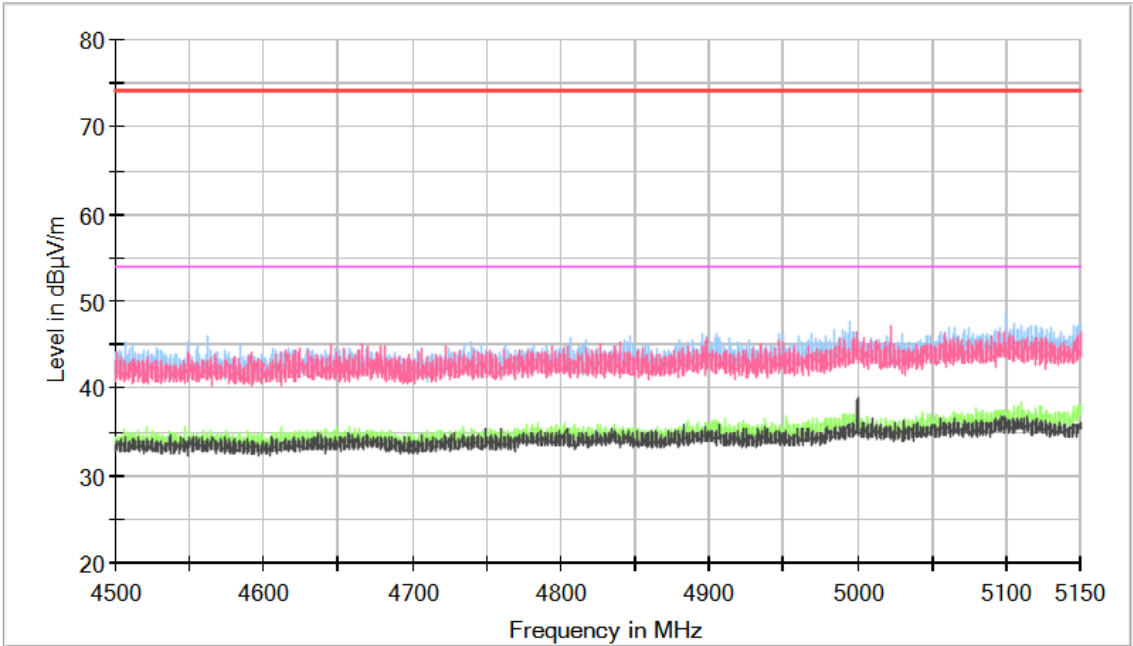


Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5180.00000
Modulation = 802.11a (OFDM 6 Mbit/s)

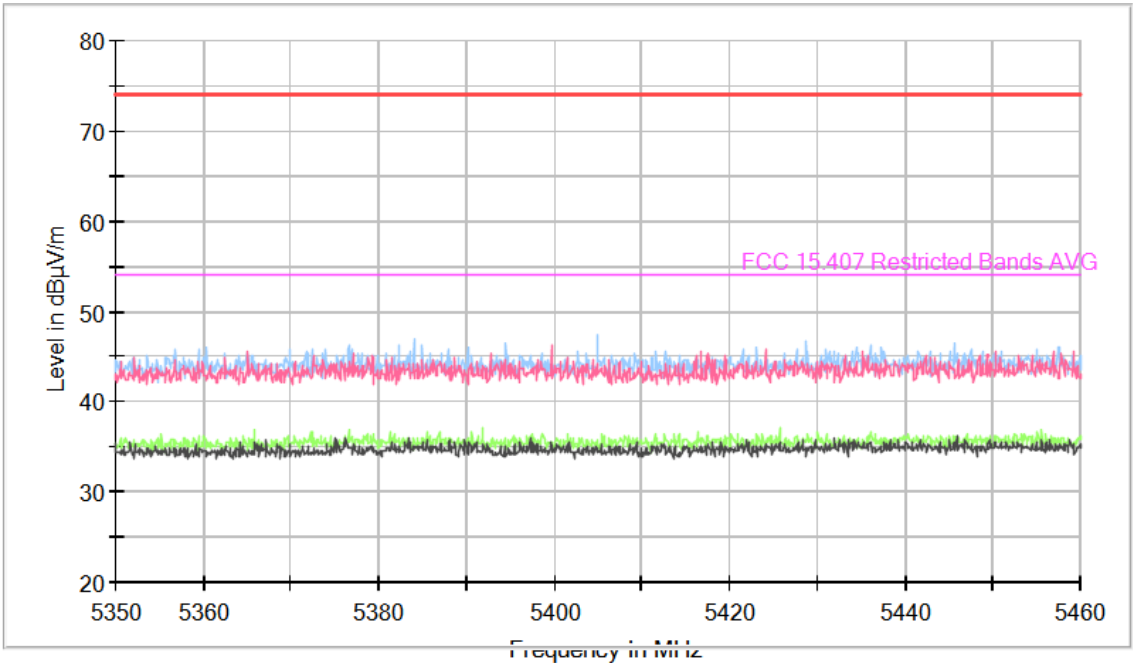
Images:

Full Spectrum





- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

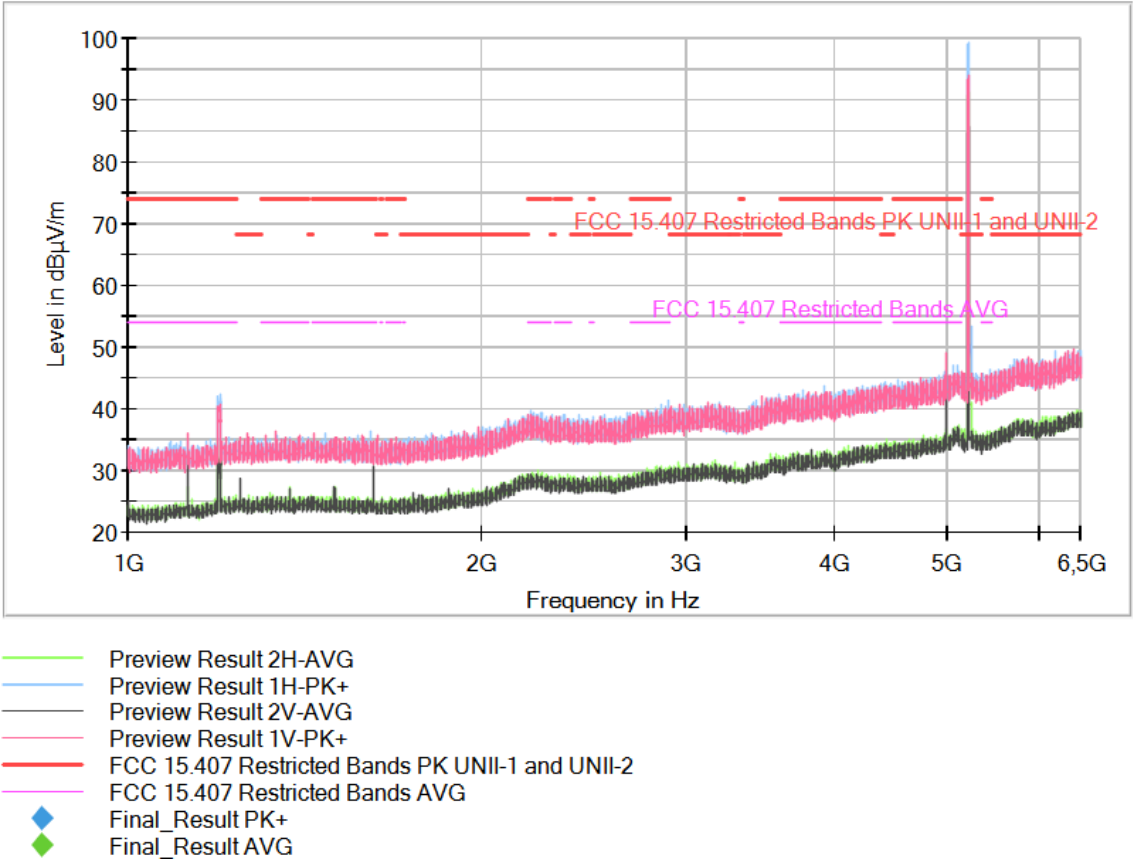


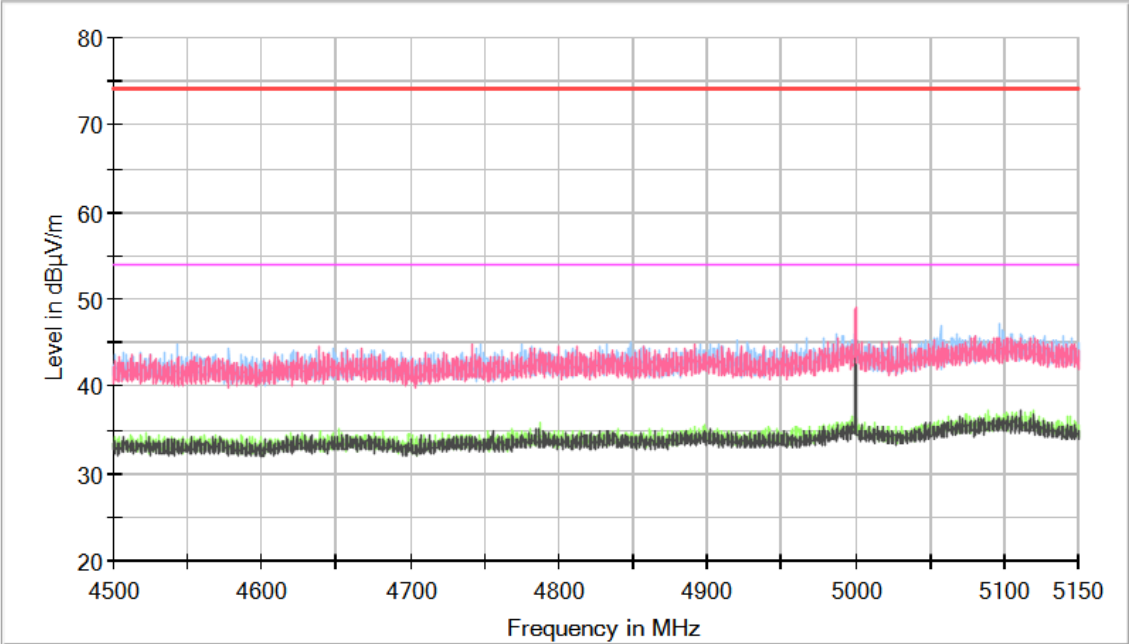
- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5220.00000
Modulation = 802.11a (OFDM 6 Mbit/s)

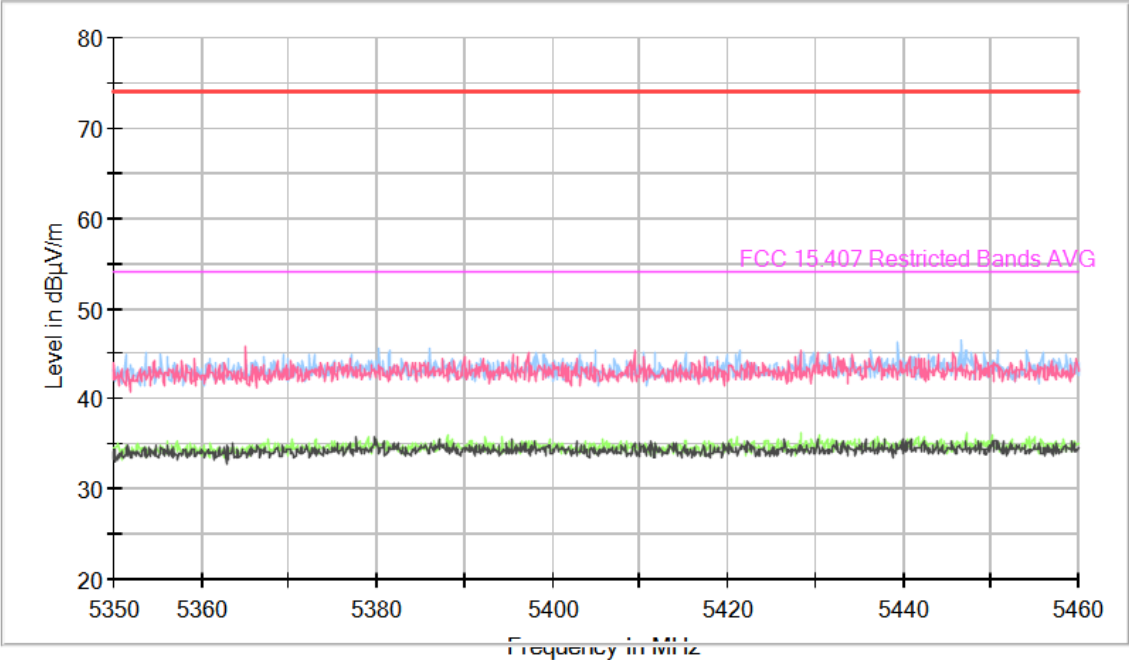
Images:

Full Spectrum





- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

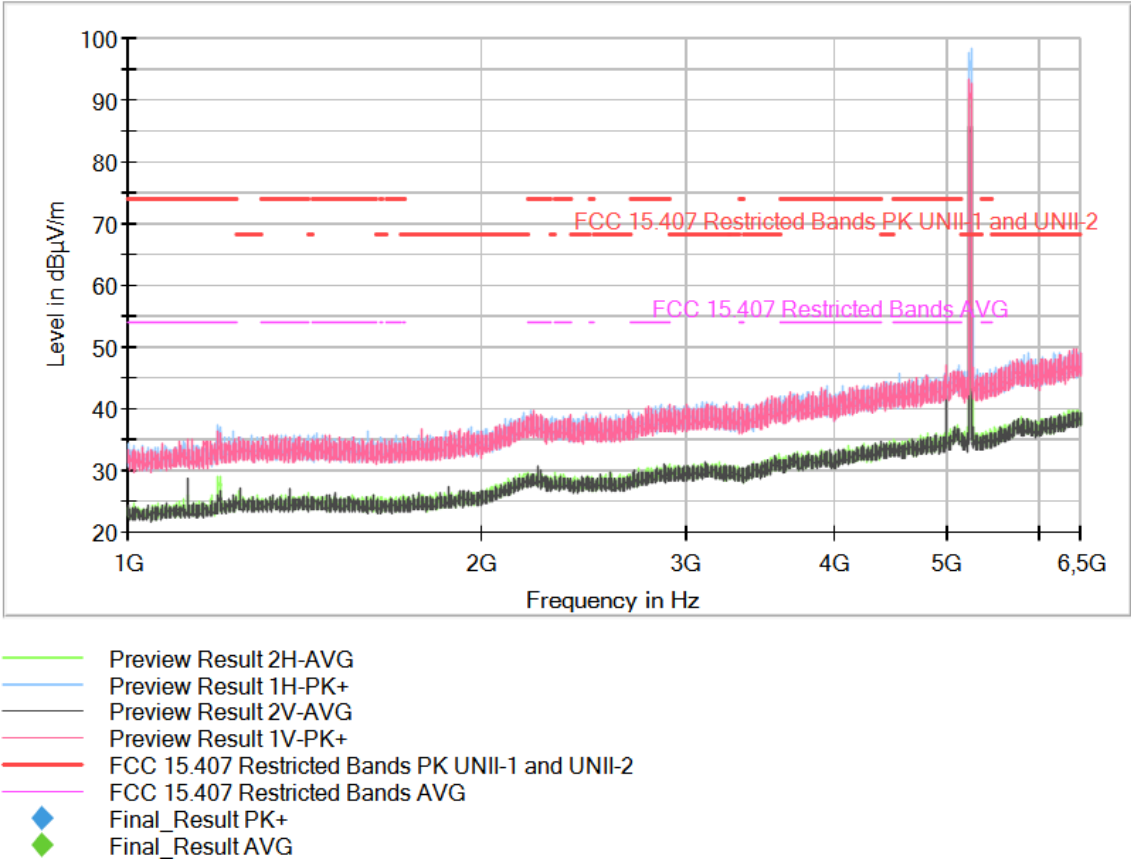


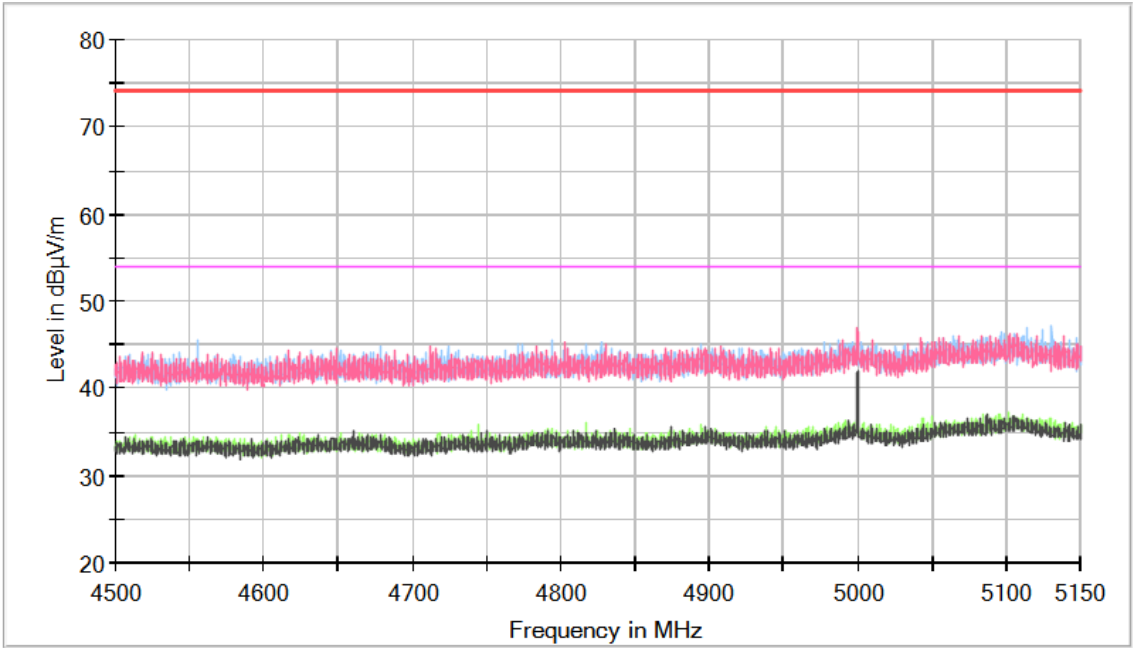
- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

Operation Band MHz = [5150, 5250] Active Port = 2+3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5240.00000
Modulation = 802.11a (OFDM 6 Mbit/s)

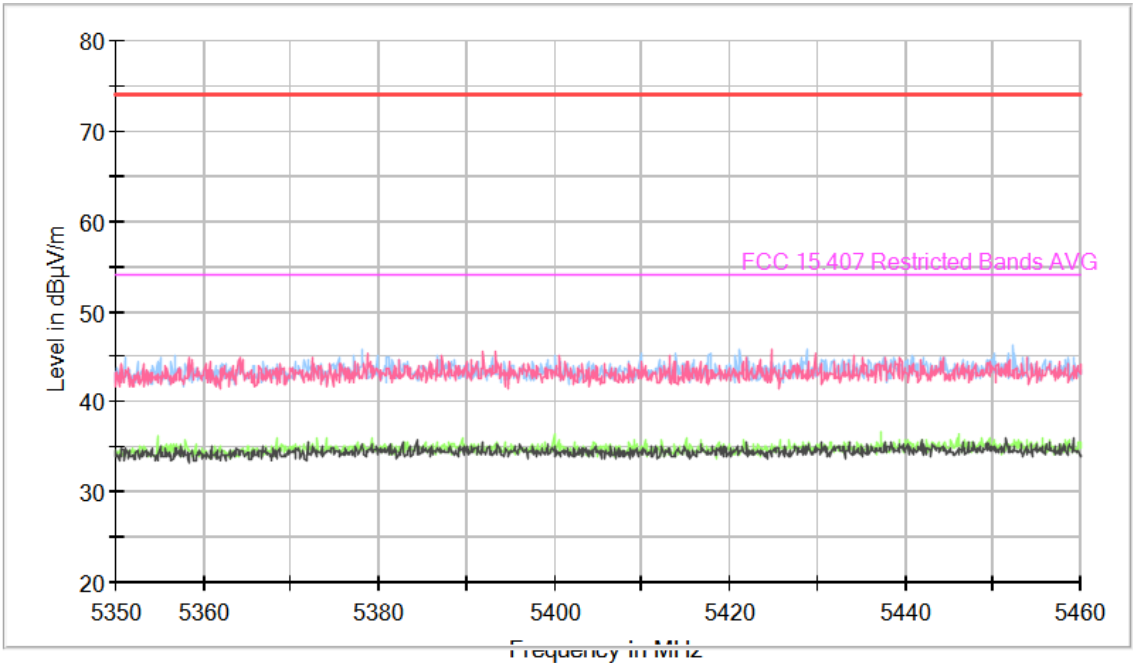
Images:

Full Spectrum





- Preview Result 2H-AVG
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- Preview Result 2V-AVG
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- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
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- Final_Result PK+
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- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
- FCC 15.407 Restricted Bands AVG
- Final_Result PK+
- Final_Result AVG

Modulation: 802.11ac VHT20 (OFDM MCS0)

Results

No spurious emissions were detected

Verdict

Pass

Attachments

Operation Band MHz = [5150, 5250]

Active Port = 3

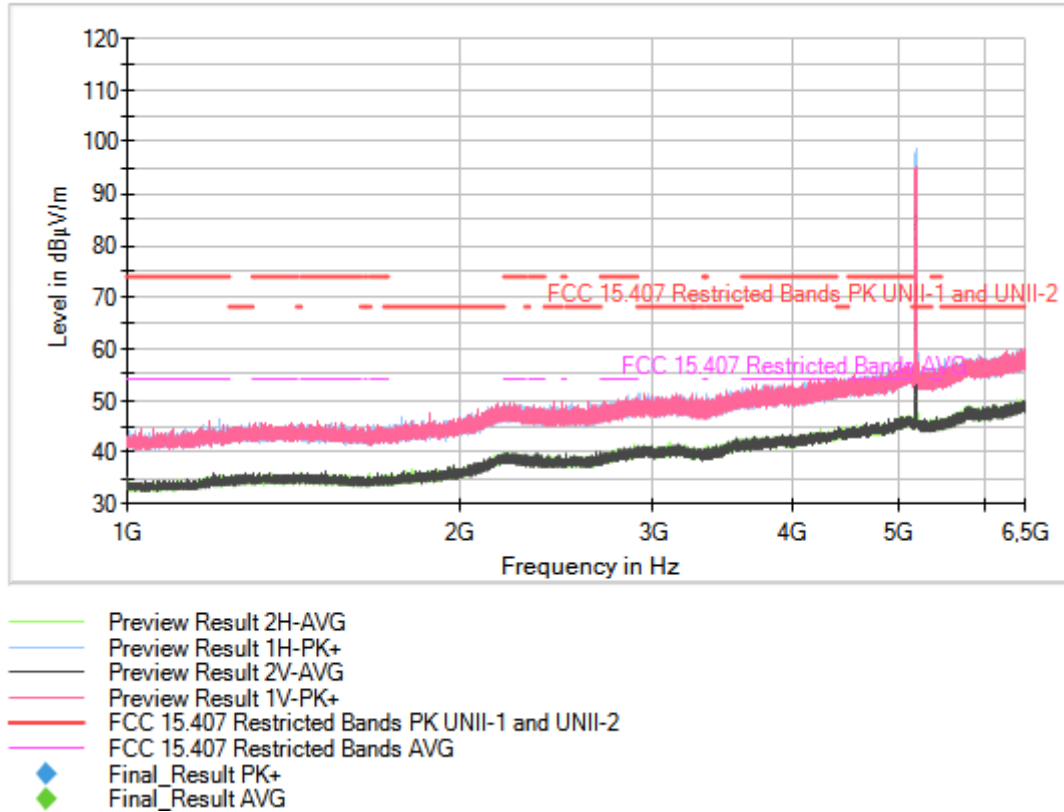
Frequency Range GHz = [1, 6.5]

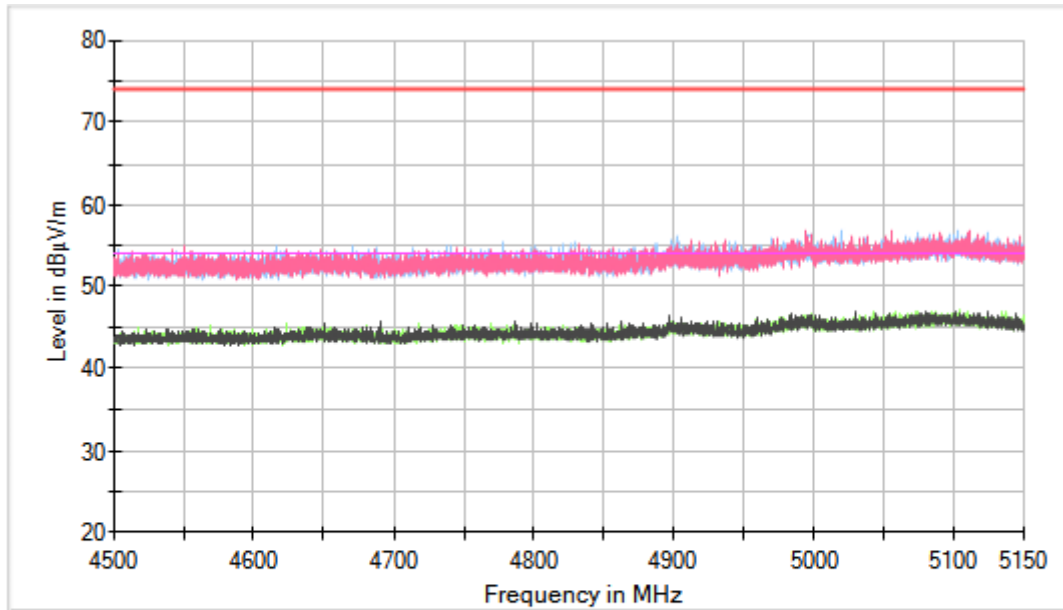
Frequency MHz = 5180.00000

Modulation = 802.11ac VHT20 (OFDM MCS0)

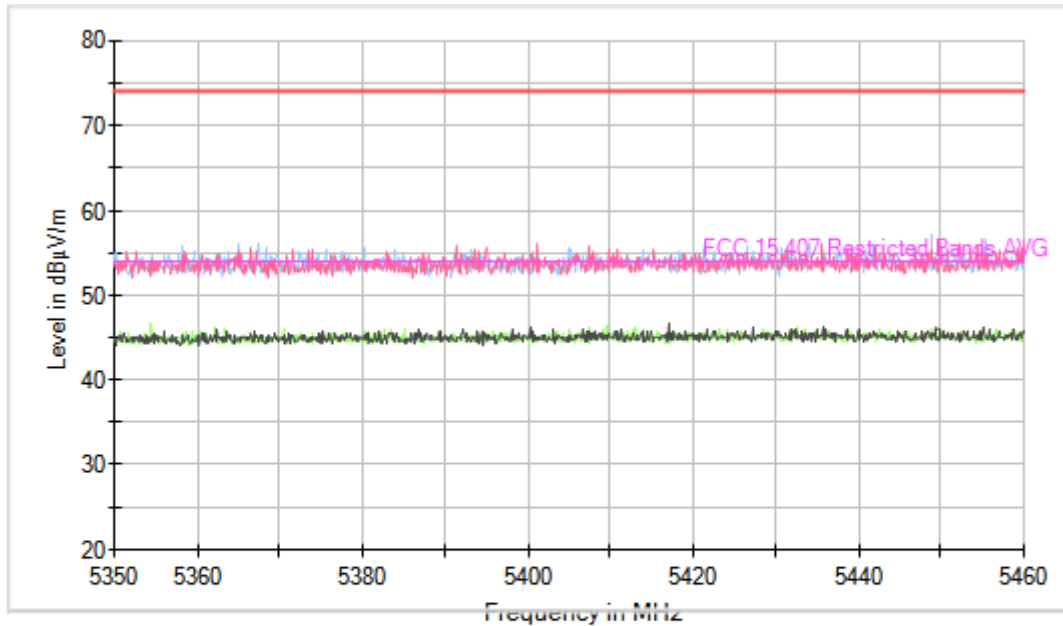
Images:

Full Spectrum





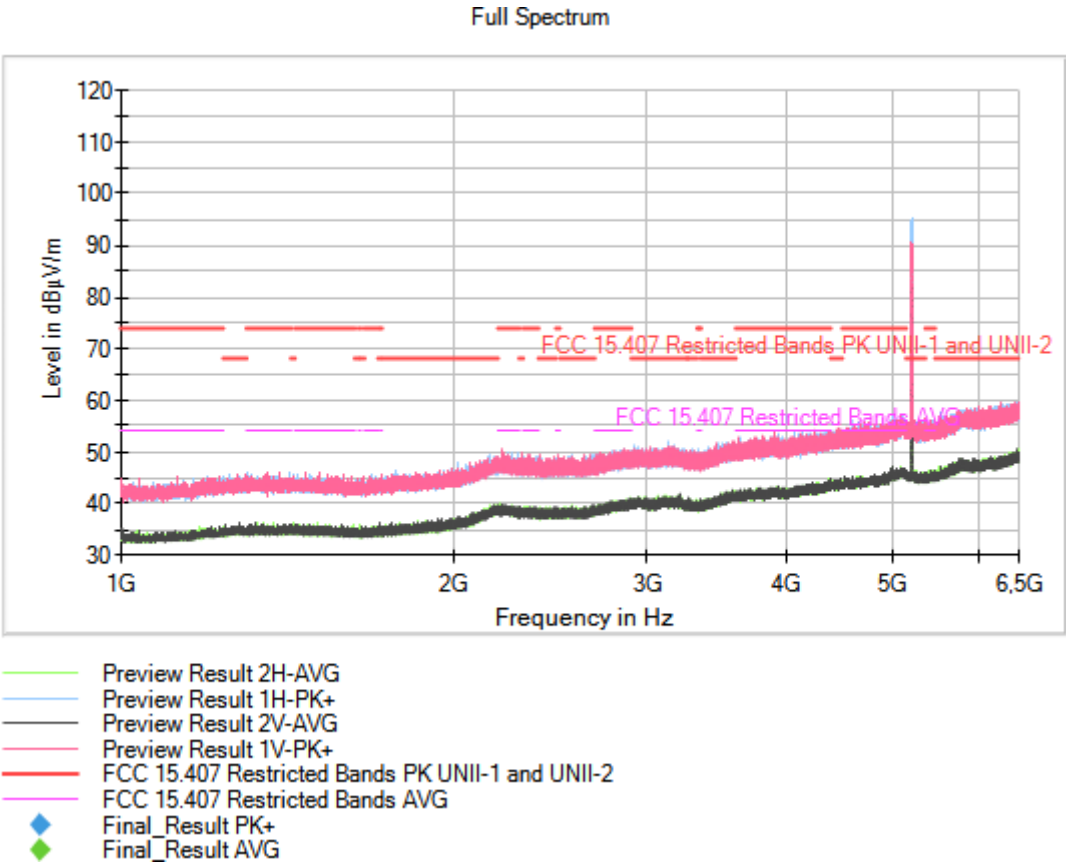
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- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
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- Final_Result PK+
- Final_Result AVG

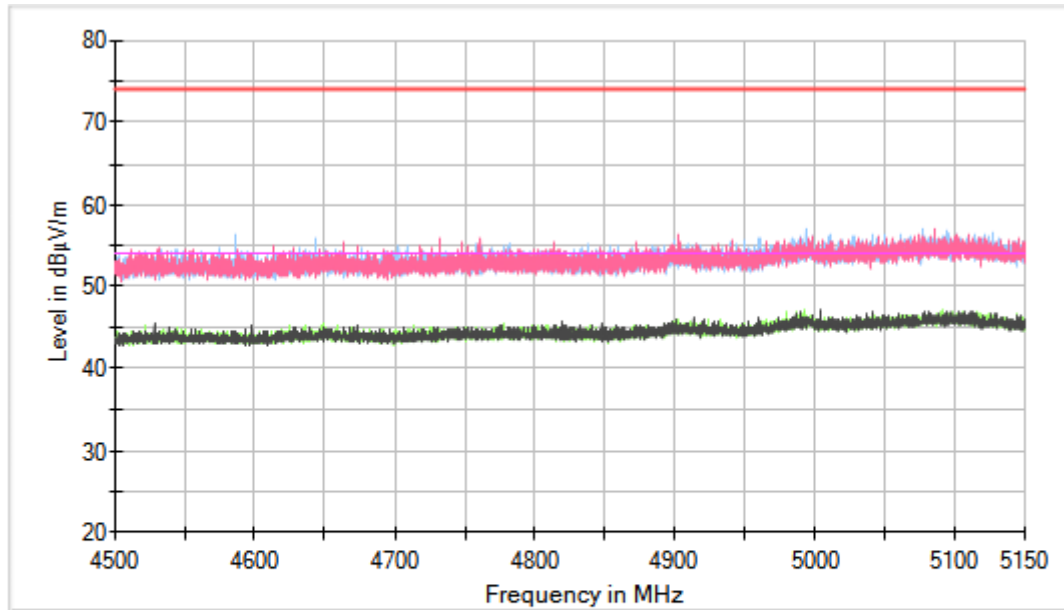


- Preview Result 2H-AVG
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- Preview Result 2V-AVG
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands PK UNII-1 and UNII-2
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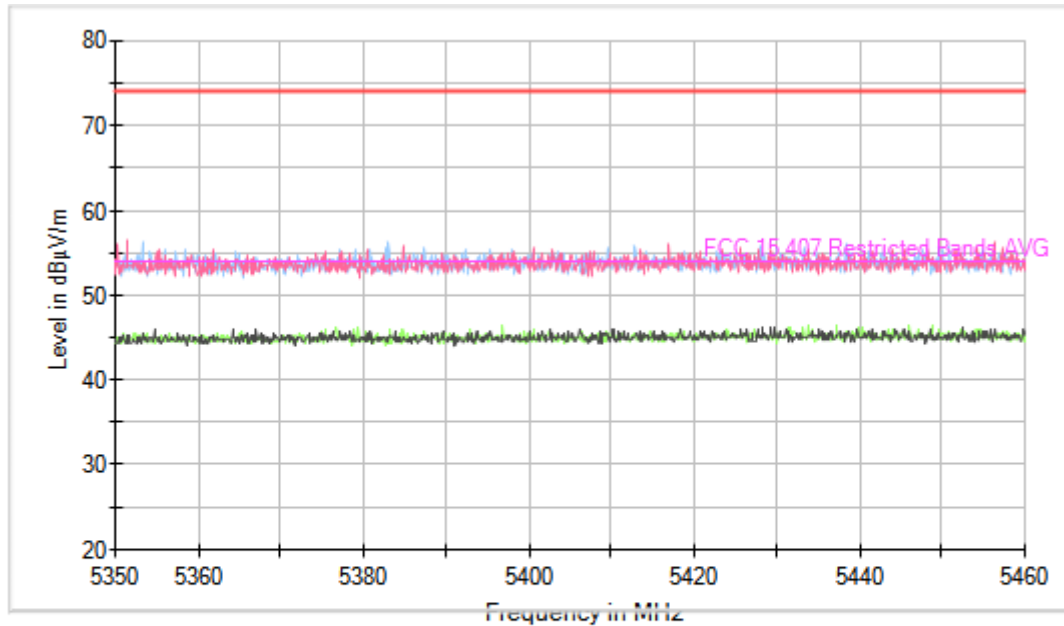
Operation Band MHz = [5150, 5250] Active Port = 3
Frequency Range GHz = [1, 6.5] Frequency MHz = 5200.00000
Modulation = 802.11ac VHT20 (OFDM MCS0)

Images:





- Preview Result 2H-AVG
- Preview Result 1H-PK+
- Preview Result 2V-AVG
- Preview Result 1V-PK+
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